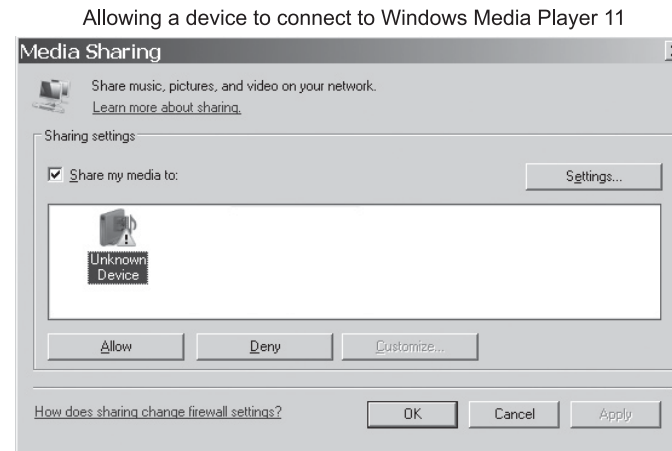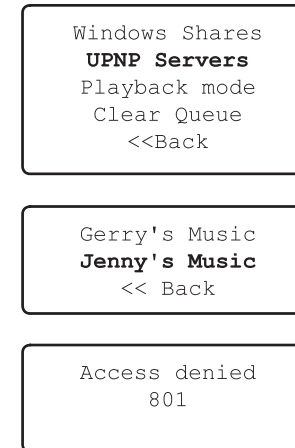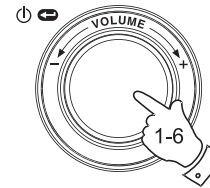## Connecting the radio using UPnP

1. Use the Select control to switch on your radio and to access the menus.
   If needed, use the Back option. Select the Media Player menu.
   Rotate the Select control to highlight 'UPNP Servers'.

2. Press and release the Select control and the radio will scan for all
   available UPnP servers. Note, this may take a few seconds for the
   radio to complete its scan and before the scan has completed,
   the radio will display 'Empty'. The radio will continue to display
   'Empty' if no UPnP servers are found.

3. After scanning, select your UPnP server (rotate the Select control
   if more than one UpnP server is found), and then press the
   Select control. Your radio will normally display 'Access Denied'
   at this stage.

4. Your PC may now prompt you that a device has attempted to
   connect to your UPnP server. Whether you are prompted or not,
   in order to allow the radio to have access to the media files,
   you will need to click the 'Library' tab in WMP 11 and select the
   'Media Sharing…' item to open the 'Media Sharing' window.

5. From the 'Media Sharing' window, the radio will be listed as an
   unknown device. Click on the unknown device shown to select it,
   then click the 'Allow' button and then click 'OK'.
   Note:
   If you are using Microsoft Windows' firewall software, this should be
   correctly configured by WMP 11. If you are using third party firewall
   software you may need to manually configure it to allow your radio
   and WMP 11 to communicate (see 'Troubleshooting').

6. Select the named server again using the Select control. If WMP 11 is
   now able to communicate with your radio you will be presented with
   some media selection options by the server software.


```
Windows Shares
UPNP Servers
Playback mode
 Clear Queue
   <<Back
```

```
Gerry's Music
Jenny's Music
  << Back
```

```
Access denied
     801
```

Allowing a device to connect to Windows Media Player 11


GB

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Locating and playing media files when using UPnP

Once the UPnP server has been configured to share media files with your Internet radio, you select the files that you wish to play as follows:

1. Use the Select control to switch on your radio and to access the menus. If needed, use the Back option. Select the Media Player menu. Rotate the Select control to highlight 'UPnP Servers'.

2. Press Select control and the radio will scan for all available UPnP servers. Note that it may take a few seconds for the radio to complete its scan, and that before the scan has completed the radio may display 'Empty'. The radio will continue to display 'Empty' if no UPnP servers are found.

3. After a successful scan, rotate the Select control to highlight your UPnP server and then press the Select control.

4. The radio will now list the media categories which are made available by the UPnP server - for example, 'Music' and 'Playlists'. Rotate the Select control to highlight which category you wish to browse, then press the Select control to confirm your choice.

5. Rotate the Select control to highlight a category and press the Select control again. For example, you could select 'Music' and then select 'Albums'.

Note:
In UPnP mode the search criteria offered and the file types made available to the radio are a function of the UPnP server software installed on your PC.
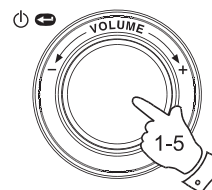
```
Radio Stations
Media Player
Auxiliary input
Alarm clock
Configure
Off
```

```
Windows Shares
UPNP Servers
Playback mode
Clear Queue
<<Back
```

```
Gerry's Music
Jenny's Music
<< Back
```

```
Music
Playlists
<< Back
```

```
Album Artists
Albums
All Artists
All Music
Composers
Folders
Genre
<<Back
```

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6. Rotate the Select control to highlight the media files that you wish to play and then press the Select control.

Do not worry if not all of your media appear in the menus immediately. Windows Media Player needs to look inside each file to identify the artist, album and track information from 'tags' embedded in each file. Additionally, Windows Media Player may take time to access the Internet to obtain additional information such as 'album art' which it can display when you examine your music library on your PC.

7. The radio will display '[Add to Queue]'. Press the Select control and the radio will add all the tracks in the album to its queue and begin playing them automatically.
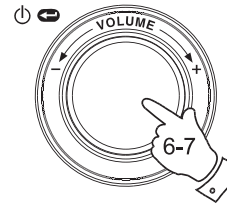
```
      Duke
Live At Blues Alley
Victory for the Com
Wish You Were Here
   << Back
```

```
[Add to Queue]
Cheek to Cheek
 Stormy Monday
```

```
Cheek to Cheek
 Connecting
```

```
Cheek to Cheek
 Eva Cassidy
 00:00  160k
```

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Media selection

Whether you access your files using Windows Shares or using UPnP, the file selection mechanisms are the same. The only difference between the two methods is that when using UPnP you will generally have a wider choice of search criteria, as determined by the UPnP server software on your computer. Some third party server applications allow customisation of the search criteria and indexing methods, which can be useful if you have a very large collection of stored music files.

The selection mechanism allows you to search by a given information type (Album, Artist, etc.) and then to narrow the search, either just to an album or to a particular track within an album. The selected album or track is then added to a queue of tracks to be played. You can add more albums or tracks to the queue while music is playing, or you can jump between tracks in the queue. You can also clear the queue if you wish to make a fresh selection. The searches described here are examples of the possibilities available.

Listening to a complete album

1. Rotate the Select control until 'By Artist' is highlighted on the display. Press the Select control.

2. Rotate the Select control until the required artist is highlighted on the display. Press the Select control.

3. Rotate the Select control until the required album name is highlighted on the display. Press the Select control. '[Add to Queue]' will be highlighted at the head of a list of tracks.

4. Press the Select control. The album will begin playing and all of the tracks in the album will be stored in the queue.

33
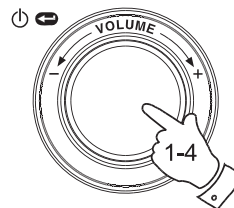
```
          Album
          Artist
          Genre
```

```
     Divine Comedy
      Eva Cassidy
     Fleetwood Mac
```

```
     American Tune
   Live at Blues Alley
        Songbird
```

```
     [Add to Queue]
     Cheek to Cheek
      Stormy Monday
```

```
     Cheek to Cheek
       Connecting
```

```
     Cheek to Cheek
       Eva Cassidy
      00:00   160k
```
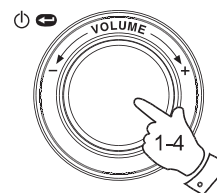
Listing to a single track

1. If you wish to play only a particular tracks from an album, first choose the album as described in steps 1 - 3 on the preceding section (section 'Listening to a complete album').

2. '[Add to Queue]' will be highlighted at the head of a list of tracks.

3. Rotate the Select control until the required track is highlighted.

4. Press and release the Select control. The track will begin playing.

Queuing up albums for playback later

While the Media Player is playing, you may add additional albums or tracks to the media queue.
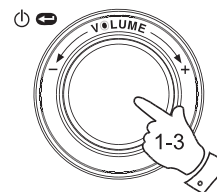
1. Use rotary control (with the back option as needed) to search for and highlight the required album (or use the Select, Back and Menu up and Menu down buttons on the remote control).

2. Press the Select control (or button) to choose the album. The list of tracks for the album will be displayed, headed by '[Add to Queue]'.

3. If needed, rotate the Select control or the Menu up button on the remote control so that '[Add to Queue]' is highlighted. Press and release the Select control. 'Tracks Added to Queue' will be displayed.

```
[Add to Queue]
Cheek to Cheek
Stormy Monday
Bridge Over Troubl
Fine and Mellow
```

```
Bridge Over Troubl
Connecting
```

```
Bridge Over Troubl
Eva Cassidy
00:00  160k
```

```
American Tune
Live at Blues Alley
Songbird
```

```
[Add to Queue]
Cheek to Cheek
Stormy Monday
```

```
Tracks Added To
Queue
```

GB

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Queuing up tracks for playback later

1. If you wish to add only particular tracks from an album to the queue, first choose the album as described in steps 1 - 3 on the preceding section (section 'Queuing up albums for playback later').

2. Use the Rotary control (or use the Menu up and Menu down buttons on the remote control) to search for and highlight the required track.

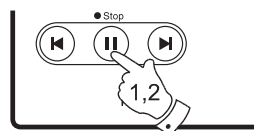3. Press the Select control (or button). 'Track Added To Queue' will show on the display.
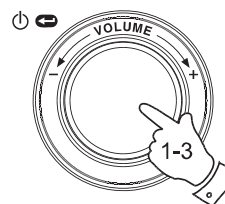
```
[Add to Queue]
Cheek to Cheek
Stormy Monday
```

```
Track Added To
Queue
```

Controlling playback

1. Press and hold the Play / Pause button on the remote control to stop playback of the current track. If you press and release the button again, playback will resume from the beginning of the same track

2. Press and release the Play / Pause button to pause playback of the current track.
   If you press and release the button again, playback will resume from the point where it was paused.

```
Name of Track
Stopped
```

```
Name of Track
01:47 Paused
```

3. Press the Rewind button to start playback of the previous track in the queue.

4. Press the Fast-forward button to start playback of the next track in the queue.

35
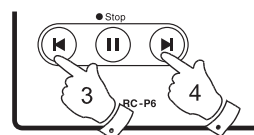
## Browsing the list of tracks currently queued up for playback

1. Press the Queue button on the remote control. The currently playing track name will be displayed, along with its position in the queue.

2. Use the Menu up or Menu down buttons (or rotate the Select control) to see which tracks are queued up for playback.

3. If you want to jump to a particular track in the queue, press the Select button (or the rotary control) when the required track is displayed. Playback will then continue from the beginning of that track.
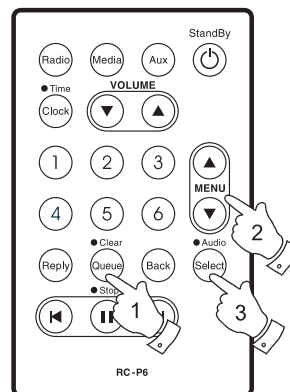
```
List of tracks
   1 of 60
```

Clearing the media player queue

1. When the radio is playing press the Select control to access the menus. If needed, use the Back option to access the main Media Player menu.

2. Press the Select control and rotate the Select control until 'Clear Queue' is displayed.

3. Press the Select control. The display will then show 'Queue cleared' and all tracks will be erased from the media queue.

4. Alternatively, a long press of the Queue button can be used to clear the queue from any point in the Media Player without any need to navigate the menus.
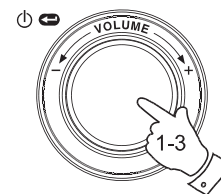
```
Windows Shares
 UPNP Servers
Playback mode
 Clear Queue
   <<Back
```
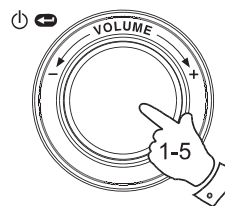
```
Queue cleared
```

36
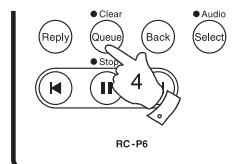
Playing tracks in the queue repeatedly

1. When the radio is playing, press the Select control to access the menus. If needed, use the Back option to access the main Mode menu.

2. Rotate the Select control until 'Media Player' is highlighted on the display then press the Select control to enter the Media Player menu. Alternatively press the Media button on the remote control.

3. Rotate the Select control until 'Playback Mode' is displayed then press the Select control.

4. Rotate the Select control until 'Repeat' is high lighted. Press and release the Select control. The display will show 'Enable' with a YES / NO option.

5. Rotate the Select control to select 'YES', then press the Select control to confirm that Repeat mode should be enabled. If you do not wish to enable Repeat mode select 'NO'.

If Repeat mode has previously been enabled, then the display will show 'Disable' with a YES / NO option after step 4. Select 'YES' to cancel Repeat mode.

```
            Radio Stations
            Media Player
           Auxiliary input
            Alarm clock
             Configure
               Off
```

```
           Windows Shares
            UPNP Servers
            Playback mode
            Clear Queue
              <<Back
```

```
              Repeat
              Shuffle
             << Back
```

```
              Enable
             YES NO
```

Playing tracks in random order

1. When the radio is playing, press the Select control to access the menus. If needed, use the Back option to access the main Mode menu.

2. Rotate the Select control until 'Media Player' is highlighted on the display then press the Select control to enter the Media Player menu. Alternatively press the Media button on the remote control.

3. Rotate the Select control until 'Playback Mode' is displayed then press the Select control.

4. Rotate the Select control until 'Shuffle' is highlighted.Press and release the Select control. The display will show 'Enable' with a YES / NO option.

5. Rotate the Select control to select 'YES', then press the Select control to confirm that Shuffle mode should be enabled. If you do not wish to enable Shuffle mode select 'NO'.

If Shuffle mode has previously been enabled, then the display will show 'Disable' with a YES / NO option after step 4. Select 'YES' to cancel shuffle mode.
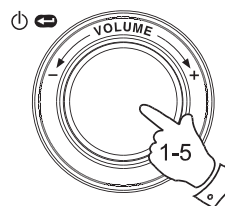
```
          Radio Stations
          Media Player
          Auxiliary input
           Alarm clock
            Configure
               Off
```

```
          Windows Shares
          UPNP Servers
          Playback mode
           Clear Queue
             <<Back
```

```
             Repeat
             Shuffle
            << Back
```

```
             Enable
            YES NO
```

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Auxiliary input socket

Your radio has a 3.5mm stereo jack socket for connection to external audio sources. This can be configured to two sensitivity levels to suit the output level of the connected device.

1. Connect an external audio source, such as an MP3 or CD player to the Aux In socket on the back of the radio.

2. Use the Select control to switch on you radio and to access the menus. If needed, use the Back option to access the main Mode menu.

3. Rotate the Select control until Auxiliary Input is highlighted on the display.

4. Press the Select control. The display will then show 'Aux In' and the external source will be selected. Alternatively, simply press the Aux button on the remote control.

5. If you are using a headphone output on the connected player, adjust the volume control on the player to a mid-level and then use the volume control on your Internet radio to set a comfortable listening level.

Note:
In the event that the sound is either too quiet, or loud and distorted, it may be that you need to adjust the Auxiliary Input level setting - please see the following section.

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```
Radio Stations
 Media Player
Auxiliary Input
 Alarm clock
  Configure
     Off
```

```
   Aux In
```
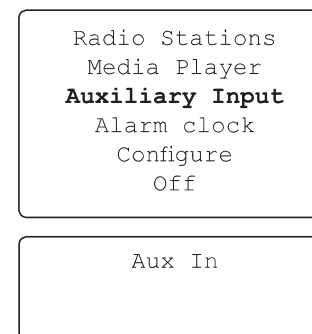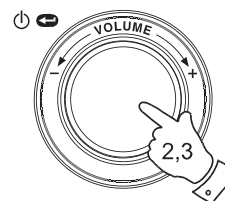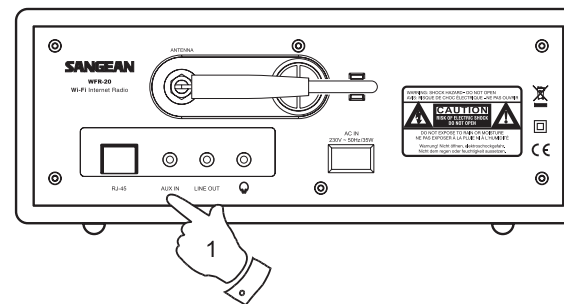
Setting the auxiliary input level

Different audio sources can vary quite significantly in the strength of the signals which they provide to other equipment such as your Internet radio. In particular, some headphone outputs are at a much lower level than others, and almost all headphone outputs are at a lower level than so called 'Line-level' outputs.

So that you may use your radio with a range of external audio sources, the input sensitivity of the Auxiliary Input may be configured to suit either Headphone or Line-level outputs. The Headphone Level setting is the more sensitive of the two.

1. When the radio is playing press the Select control to access the menus. If needed, use the Back option to access the main Mode menu. Rotate the Select control until 'Configure' is highlighted on the display.

2. Press the Select control to show the Configure menu on the display. Rotate the Select control until 'Auxiliary input level' is highlighted.

3. Rotate the Select control until either 'Headphone level' or 'Line Input Level' is highlighted on the display, and then press the Select control to activate the desired setting.

4. If needed, select the Back option to exit the menu.
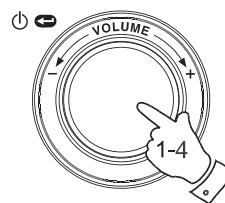
```
      Radio Stations
       Media Player
     Auxiliary Input
       Alarm clock
       Configure
          Off
```

```
     Aux Input Level
       Backlight
      Clock Setup
```

```
    Headphone Level
    Line Input Level
       << Back
```

```
    Headphone level
       selected
```

Setting the clock

Normally the WFR-20 Internet radio will set its clock automatically to UK time after a connection to the Internet has been established. Should you need to set the time manually, please follow this procedure.

1. Use the Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu.

2. Rotate the Select control until the display says 'Configure'. Press the Select control to enter the configure menu.

3. Rotate the Select control until 'Clock Setup' appears on the display. Press the Select control to enter the clock setup menu.

4. Rotate the Select control until 'Set Time/Date' is highlighted on the display. Press the Select control to highlight the hour digits on the display.

5. Rotate the Select control to select the hour. Press the Select control to highlight the minute digits on the display.

6. Rotate the Select control until the correct date is highlighted on the display. Press the Select control enter the date and to highlight the month on the display.

7. Rotate the Select control to select the correct month. Press the Select control enter the month and to highlight the year on the display.

8. Rotate the Select control to select the year. Press the Select control to confirm the clock setting. The display will show 'Time and Date Set' and will then return to the radio station display.
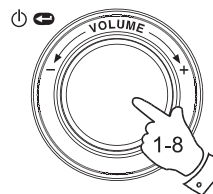
41


```
    Radio Stations
     Media Player
   Auxiliary input
     Alarm clock
     Configure
         Off
```

```
  Aux Input Level
     Backlight
    Clock Setup
```

```
   Set Time/Date
    Clock Format
         DST
```

```
      Set Time
       10:00
```

```
      Set Time
       10:00
```

```
      Set Date
     21 May 2007
```

```
   Time and Date
         Set
```

Setting the clock format

The clock display can be set to 12 or 24 hour format. The selected
format is then also used when setting the alarms.

1. Usethe Select control to switch on your radio and to access
   the menus. If needed, use the Back option to access the main
   Mode menu.

2. Rotate the Select control until the display says 'Configure'.
   Press and release the Select control to enter the configure menu.

3. Rotate the Select control until 'Clock Setup' is highlighted on
   the display. Press the Select control to enter the clock setup menu.

4. Rotate the Select control until 'Clock format' is highlighted on
   the display. Press the Select control to enter the clock format menu.

5. Rotate the Select control to select either 24 hour or 12 hour format.
   Press the Select control to confirm your choice of clock format.

```
      Radio Stations
       Media Player
      Auxiliary input
        Alarm clock
        Configure
           Off
```

```
     Aux Input Level
        Backlight
       Clock Setup
```
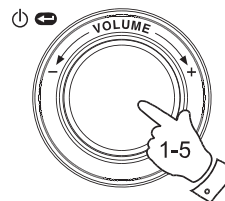
```
      Set Time/Date
      Clock Format
           DST
```

```
      Clock format
         24 12
```

GB

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Setting daylight saving/summer time

These 4 options are available:

　European – Sets DST by European rules.

　DST On – Sets Daylight Saving Time (offset +1 hour)

　DST Off – Cancels Daylight Saving Time.

　Local time zone – manually forward or backward by 30 mins/step.

　Reset clock – removes any user set time, time-sonze or DST offset
　　　　　　　 and sets them back to the factory state.

1. Press the Select control to switch on your radio and to access
　the menus.

2. Rotate the Select control until the display says 'Configure'.
　Press the Select control to enter the configure settings.

3. Rotate the Select control until 'Clock Setup' appears on the display.
　Press the Select control to enter the clock setup menu.

4. Rotate the Select control until 'DST' or 'Local time zone' appears
　on the display. Press the Select control to enter it, then you will
　be able to set the summer time.
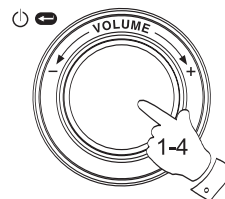
```
    Radio Stations
     Media Player
   Auxiliary input
     Alarm clock
     Configure
        Off
```

```
   Aux Input Level
     Backlight
     Clock Setup
```

```
        DST
   Local Time Zone
     Reset Clock
```

```
    European DST
       DST On
       DST Off
```

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Setting the alarm clock

Your radio has four separate alarms which can be set to wake you to either a radio station or a buzzer alarm. Each alarm can be set to sound either once, everyday, weekly, weekdays or at weekends. In the event of a power interruption your radio has built in memory chip that will retain your alarm settings.

Note:
If no buttons are pressed for 10 seconds the radio will exit the alarm setup. If you make a mistake at any point, use the Back option to go back to the previous screen.

1. Usethe Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu.

2. Rotate the Select control until the 'Alarm clock' is highlighted on the display. Press the Select control to enter the alarm settings.

3. Rotate the Select control until 'Set Alarms' is highlighted on the display then press the Select control. The display willshow the status of alarms 1-4. It will also offer a 'Disable All' option.

4. Rotate the Select control until the desired alarm 1 - 4 is highlighted on the display. Alarms which are not highlighted show the time of the next alarm (if any) and the day of the week on which they will occur. The currently highlighted entry will scroll through the full alarm details including whether the alarm is daily, weekly, etc. and the details of the alarm type (buzzer or radio station name).

5. To change the setting for the highlighted alarm press the Select control. The alarm hour will be highlighted. The 12 hour or 24 hour clock format will be used according to the currently selected clock format option.
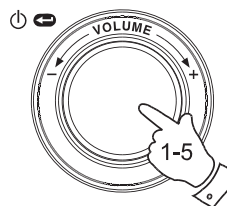
```
     Radio Stations
      Media Player
   Auxiliary input
     Alarm clock
       Configure
          Off
```

```
      Set Alarms
     Sleep timer
       <<Back
```

```
     Disable all
       1 OFF
       2 OFF
       3 OFF
       4 OFF
```

```
      Set Time
     00:00 AM
```

GB

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Setting the alarm cont.

6. Rotate the Select control to choose the hour for the alarm. Press the Select control to store this setting and the minute digits will be highlighted.

7. Rotate the Select control to choose the minute for the alarm. Press and Select control to store this setting. The alarm day option will be highlighted on the display:-
   - Once - will sound at one time only
   - Everyday - will sound everyday.
   - Weekly - will sound once every week.
   - Weekdays - will sound on weekdays only.
   - Weekends - will sound on weekends only.

8. Rotate the Select control to choose one of the above options for the alarm. Press the Select control to store this setting. If setting the alarm to everyday, weekdays or weekends please skip to point 10.

9. Rotate the Select control until the required day of the week for the alarm is highlighted on the display. Press the Select control to store this setting. The radio will enter the alarm mode option.

10. The alarm can be set to a radio station or a buzzer alarm. The radio station alarm may be set to any of the stations which have been stored as presets or to the station currently being listened to. Rotate the Select control to select either Buzzer or the required radio station.

11. Press the Select control to confirm the alarm settings. Your radio will show 'Alarm Set' and will go back to the list of alarms with the new alarm setting shown in the display.

45
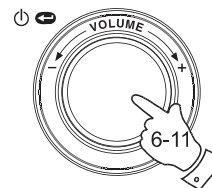
```
    Set Time
    07:00 AM
```

```
    Set Time
    07:30 AM
```

```
      Once
    Everyday
     Weekly
    Weekdays
    Weekends
```

```
     Monday
    Tuesday
   Wednesday
    Thursday
     Friday
    Saturday
     Sunday
```

```
       Buzzer
   100-102 Century
   100.7 Heart FM
  102.2 Smooth FM
    102.3 2CR FM
```

```
    Alarm Set
```

When the alarm sounds

The radio alarm will sound at the selected times for up to 60 minutes unless cancelled. The volume for the radio alarm will be the same as the volume previously used when listening to the radio or media player. If for any reason the radio cannot connect to the requested radio station at the time that the alarm is due, the buzzer alarm will be used instead. The buzzer alarm sounds for 10 minutes and the volume will gradually increase from a low level. If the radio is playing at the time that the buzzer sounds, then the buzzer volume is based on the radio volume setting.

1. If the radio alarm sounds when the radio is in standby, the display will show 'Turn on Radio' with a YES / NO option. If no action is taken the radio will switch off at the end of the alarm period. If you select NO, the radio will switch off immediately. If you wish to listen to the radio, or to be able to select alternative stations, then select YES using the Select control.

2. If a radio alarm sounds and the radio is already playing, the radio will change to the station specified for the alarm, and the display will show 'Stop alarm' with a YES / NO option. Selecting YES will revert to the previous radio station or the media player. Selecting NO will allow the radio station from the alarm to continue.

3. If the buzzer alarm sounds when the radio is in standby, the display will show 'Turn on Radio' with a YES / NO option. If no action is taken, the buzzer will stop after 10 minutes. If you select NO, the alarm will switch off immediately. If you wish to listen to the radio or media player, then select YES using the Select control.

4. If the buzzer alarm sounds when the radio is already playing, the display will show 'Alarm'. If no action is taken, the buzzer will stop after 10 minutes. If you wish to go back to the radio station press the Select control.
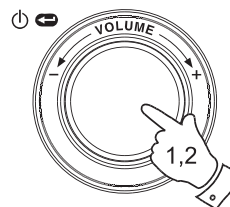
```
        Disable all
1 07:30 Monday Buzzer
        2 OFF
        3 OFF
        4 OFF
```

```
     Turn on Radio
      YES    NO
```

```
      Stop alarm
      YES    NO
```

```
        Alarm
```

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Disabling alarms

1. To Disable all alarms enter the alarm setup menu and Rotate the
   Select control until 'Disable all' is highlighted on the display.
   Press the Select control to confirm. The display will show 'All alarms
   disabled' for 3 seconds then return to the alarms list display.

2. To Disable a single alarm enter the alarm setup menu and rotate the
   Select control until the desired alarm is highlighted on the display.
   Press the Select control. The display will show 'Enable Alarm
   YES / NO'.

   If NO is selected alarm is cancelled and the display returns to the
   alarm list.

   If YES is selected the alarm details may be changed by modifying
   any or all of the alarm options.

```
    Disable all
      1 OFF
   2  9:30 AM Tue
   3 10:30 AM Wed
   4  7:30 PM Thu
```

```
   Enable Alarm
     YES NO
```

47
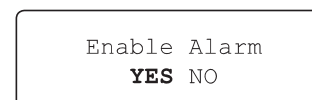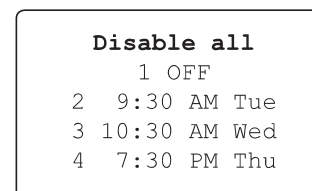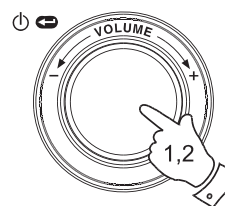
Sleep timer

Your radio can be set to turn off after a preset time has elapsed.
The sleep setting can be adjusted between 15 and 120 minutes in
15 minute increments.

1. When the radio is playing, press the Select control to access
   the menus. If needed, use the Back option to access the main
   Mode menu.

2. Rotate the Select control until the 'Alarm clock' is highlighted on
   the display then press the Select control.

3. Rotate the Select control until 'Sleep timer' is highlighted on the
   display then press the Select control.

4. Rotate the Select control until the required sleep time setting is
   selected between 15 and 120 minutes or to Off. Press the Select
   control to confirm the setting.

5. The display will show 'Sleep timer' set. Your radio will switch off after
   the preset time has elapsed.

6. To cancel the sleep time before the preset time has elapsed and to
   turn off the radio, use the Select control (or the remote control) to
   turn the radio off manually. To cancel the sleep timer and leave the
   radio playing, go back into the sleep timer settings (steps 1 to
   4 above) and select the Off option in step 4.

During the last two minutes of the sleep timer period, the radio will
gradually reduce the volume before switching off.
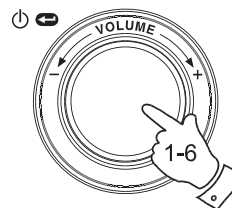
```
   Radio Stations
   Media Player
   Auxiliary input
   Alarm clock
     Configure
       Off
```

```
   Set Alarms
   Sleep Timer
    <<Back
```

```
  Sleep Timeout
     00:15
```

```
  Sleep Timeout
      Off
```

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Backlight

This option allows you to alter the radio's display backlight settings to suit your needs. Separate settings are available for Active mode (while using the menu system), Inactive mode (when listening), and Standby mode (when the radio is off with just the clock display showing).

1. Usethe Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu.

2. Rotate the Select control until 'Configure' is highlighted on the display. Press the Select control to enter the Configure menu.

3. Rotate the Select control until 'Backlight' is highlighted on the display. Press the Select control to enter the Backlight menu.

4. The backlight setting can be adjusted for'Active','Inactive'and'Standby' modes. Rotate the Select control to highlight the desired backlight option then press the Select control.

5. The radio will now display the setting for the selected backlight option. You can alter this value by rotating the Select control to increase or decrease it according to your needs.

6. When the desired value is reached, press the Select control to store the setting. If the value is not modi.ed or stored after .ve seconds, the radio exit the Backlight menu and will return to its previous display.
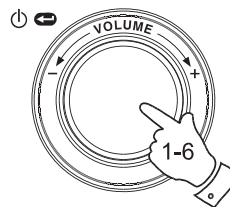
49

```
        Radio Stations
         Media Player
       Auxiliary input
         Alarm clock
         Configure
            Off
```

```
       Aux Input Level
         Backlight
          Language
        Clock Setup
```

```
          Active
         Inactive
         Standby
         <<Back
```

```
       Active Level
            27
```

```
       Active Level
        Set to 27
```

Language selection

This facility allows you to change the display language for the menus.

1. Use the Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu. Rotate the Select control until 'Configure' is highlighted on the display then press the Select control to enter the Configure menu.

2. Rotate the Select control until 'Language' is highlighted then press the Select control to access the list of available languages (English, French, Spanish, German, Danish, Italian, Dutch, Portuguese, Finnish, Swedish and Norwegian).

3. Rotate the Select control to highlight the desired menu language. Press the Select control confirm your choice and to restart the radio using the chosen language.

Software version display

The software version display is provided for your reference only.

1. Use the Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu. Rotate the Select control until 'Configure' is highlighted on the display.

2. Press and release the Select control to enter the Configure menu. Rotate the Select control until 'Version' is highlighted.

3. Press and release the Select control to show the current software version on the display. Rotating the control will display additional information. Use the Back option to exit.
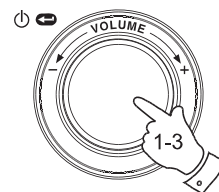
```
      Radio Stations
      Media Player
      Auxiliary input
      Alarm clock
      Configure
         Off
```

```
        Register
        Version
    Upgrade Firmware
     Factory Reset
        <<Back
```

```
    Aux Input Level
      Backlight
      Language
     Clock Setup
```
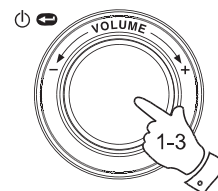
```
      Radio Stations
      Media Player
      Auxiliary input
      Alarm clock
      Configure
         Off
```

```
     Service Pack
     V257-a-297
```

GB

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Network configuration

This menu enables you to configure your radio's network settings, scan for a connection to an alternative wireless network, or to manually configure the network parameters. This can be useful if you take the Internet radio to another location where there is a different network setup.

It is possible to configure your radio to connect to your network via an available Ethernet connection (RJ-45) or via a Wi-Fi router.

Configuring the radio only to use a wired Ethernet connection

1. From the radio's Network Configuration menu, select 'Wired / Wireless'. This menu will present you with three options: 'Wireless Only', 'Wired Only'and'Auto'. Selecting 'Wired Only' will allow cause the radio to restart and then to use only its Ethernet connection to communicate with the network. The radio will also disable its wireless network capabilities. This will require your radio to be physically connected to a wired Ethernet using the RJ-45 socket on the rear panel.

Configuring the radio only to use a Wi-Fi connection

2. Selecting the 'Wireless Only' option from the 'Wired / Wireless' menu will allow cause the radio to restart and then only to use only its Wi-Fi connectiontocommunicatewiththenetwork. Theradiowillalsodisable its Ethernet connection.
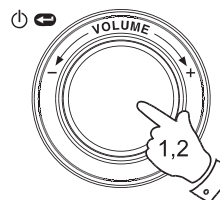
51

```
      Radio Stations
      Media Player
     Auxiliary Input
      Alarm Clock
       Configure
          Off
```

```
     Aux Input Level
       Backlight
       Language
      Clock Setup
        Network
       Register
        Version
```

```
    Scan for networks
   Enter network name
      View Config
      Edit Config
     Wired/Wireless
     Signal Warning
       << Back
```

```
         Auto
       Wired Only
     Wireless Only
       << Back
```

Configuring the radio to use either an Ethernet or a Wi-Fi connection

3. Selecting the 'Auto' option from the 'Wired / Wireless' menu will cause the radio to restart. It will then attempt to establish an Ethernet connection to the network. If no Ethernet connection is available the radio will attempt to establish a Wi-Fi connection to the network.
   Having established a particular type of connection to the network, this connection will remain in use while the radio is on.

The Network Configuration menu also allows you to choose whether or not the Internet radio displays a warning message when the Wi-Fi signal strength is low. You can enable this feature by selecting 'Signal Warning' and then selecting 'Yes'.

Entering the network name manually

If your network is configured with a hidden ESSID, then you will need to enter the network name manually.

1. In the Network Configuration menu, select 'Enter network name'. A string of characters will be displayed. You can scroll through this list by turning the rotary control or by pressing the Menu up or Menu down buttons. The centre character will be entered into the network name each time that you press Select.
   If you make an error, either use the Back button on the remote control, or give a long press on the rotary control.

2. When the name has been entered, locate the END symbol in the string of characters and then press Select. The radio will then try to connect to the named network.
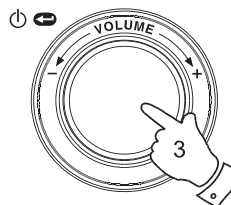

```
           Auto
       Wired Only
      Wireless Only
        << Back
```
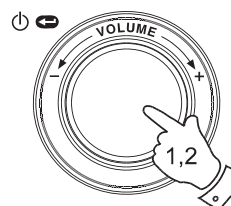


```
     Scan for networks
   Enter network name
        View Config
```

```
  mnopq    r    stuvw
      Les's-netwo█
```

```
  ()~      END    ◄ ►01
      Les's-network█
```

```
     Connecting to
        network
```

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Troubleshooting

If you have difficulty connecting the radio to your wireless network, some of these steps may help to resolve the problem:

1. Confirm that a Wi-Fi connected PC can access the Internet (i.e. can browse the web) using the same network.

2. Check that a DHCP server is available, or that you have configured a static IP address on the radio. You can configure a static IP address on the radio using the menu item 'Configure -> Network Config -> Edit Config', and then select 'No' for 'Auto (DHCP)'.

3. Check that your network's firewall is not blocking any outgoing ports. As a minimum, the radio needs access to UDPand TCPports 80, 554, 1755, 5000 and 7070. The use of Windows Shares requires access to UDP and TCP ports 135 - 139 and 445. Windows Media Player 11 will allocate a port number for UPnP media sharing and will configure Microsoft's Windows built-in firewall appropriately. Other firewall software may require configuration for UPnP or to allow particular IP addresses to have trusted access.

4. Check that your access point does not restrict connections to particular MAC addresses. You can view the radio's MAC address using the menu item 'Configure -> Network Config -> View Config -> MAC address'. Note that the WFR-20 radio has both wired and wireless MAC addresses.

5. If you have an encrypted network, check that you have entered the correct key or pass-phrase into the radio. Remember that text-format WPA keys are case sensitive. If your radio displays 'Wireless error' when attempting to connect to an encrypted network followed by a 5-digit number, then please ensure that you enter the correct pass -phrase for the network. If the problem persists, then you may need to consult your network configuration.

If your radio can connect to the network successfully, but is unable to play particular stations, it may be due to one of the following causes:

1. The station is not broadcasting at this time of the day (remember it may be located in a different time zone).

2. The station has reached the maximum allowed number of simultaneous listeners.

3. The Internet connection between your radio and the server (often located in a different country) is slow.

4. The station is not broadcasting any more.

5. The link to the audio stream used by the radio is out of date.

6. The radio station is broadcasting using an audio format which is not playable by your radio (although the WFR-20 does play almost all formats used by regular broadcasters).

Try using a PC to play back the stream via the broadcaster's web site. If you can play back the station with a PC, use the form at http://www. reciva.com to notify Reciva so that they can update the station data that is used by the radio.

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Factory reset

If you wish to completely reset your radio to its initial state this may be performed by following this procedure.

1. Use the Select control to switch on your radio and to access the menus. If needed, use the Back option to access the main Mode menu. Rotate the Select control until 'Configure' is highlighted on the display.

2. Press the Select control to enter the Configure menu. Rotate the Select control until 'Factory Reset' is highlighted on the display.

3. Press the Select control again and the display will show 'Are you sure?'. Rotate the Select control to highlight 'Yes' if you wish to carry out a system reset or highlight 'No' if wish to return to the previous screen. Then press the Select control again.

4. A full reset will be performed, the station list together with any preset stations will be erased and your wireless network connection details will be lost. All configuration settings will be restored to their defaults, and the language used for menus will be reset to English.

In the event that you are unable to access the menus (or if the language setting has accidentally been changed to a language that you cannot understand) the Factory Reset may also be performed as follows:

1. Remove all power from the unit and wait 30 seconds.

2. Then, re-apply power while simultaneously pressing and holding the front panel rotary control. Keep this pressed as the radio powers up and until it displays 'Factory Reset Complete'. This should normally only take between 10 and 15 few seconds. Then, release the control while the radio restarts.

3. If this is not successful, please remove power for one minute, and then repeat the operation.
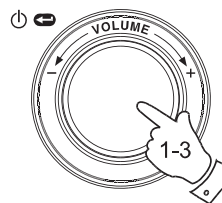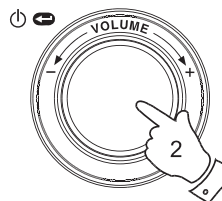

1-3

2

```
    Radio Stations
     Media Player
   Auxiliary input
     Alarm clock
     Configure
         Off
```

```
      Register
       Version
  Upgrade Firmware
   Factory Reset
      <<Back
```

```
   Are you sure?
      YES NO
```

```
   Factory Reset
     Complete
```

GB

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Upgrade firmware

From time to time, new software features for your radio may be developed. For example, a new audio decoder may be added to allow an alternative audio format to be supported. You radio has therefore been designed to allow its internal software to be upgraded using your Internet connection. The upgrade mechanism is accessible via the Configure menu.

Upgrading the software will remove all network settings, radio station presets and alarm settings from your radio. Do not attempt this procedure unless you have a good Internet connection and a reliable mains power supply. If you connect to your router using a Wi-Fi connection, make sure that this is also reliable before proceeding.

The Upgrade Firmware option allows your radio to download new internal software from the Reciva portal on the Internet. If there is new software available, then the radio will ask whether you want to download it or not. Selecting No or using the Back optionwill cancel the operation. A software upgrade may take several minutes.

IMPORTANT:
Do not switch off the power to the radio until the upgrade operation is complete and the radio has restarted, otherwise the radio may become permanently damaged.

Once the software upgrade is completed your radio will restart. If you use a Wi-Fi connection, you will need to re-enter all network settings in order to be able reconnect to your network. A firmware update also erases all radio station presets, alarm settings, and configuration options.

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```
      Radio Stations
      Media Player
     Auxiliary input
      Alarm clock
       Configure
          Off
```

```
        Register
         Version
     Upgrade Firmware
      Factory Reset
         <<Back
```

```
      Checking For
        Updates
```
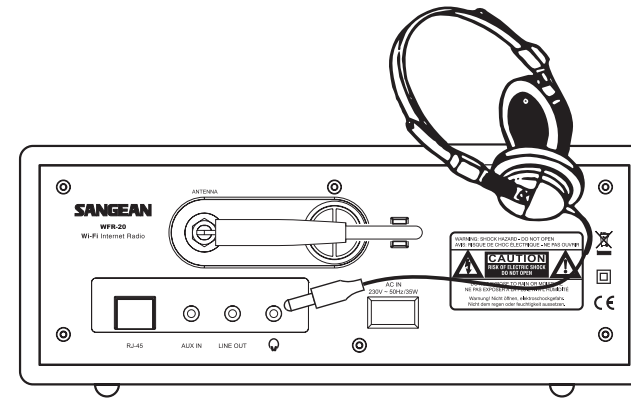
```
      No Upgrade
       Available
```

```
    Update Software
      YES   NO
```

Headphone socket

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

IMPORTANT:
Excessive sound pressure from earphones and headphones can cause hearing loss.

Line out socket (3.5mm Jack)

A 3.5mm Line Out socket located on the rear of your radio is provided for connecting the audio signal to an external ampli.er. Inserting an audio cable into this socket will not mute the internal loudspeaker. Set the volume control on the radio to minimum if desired.

56
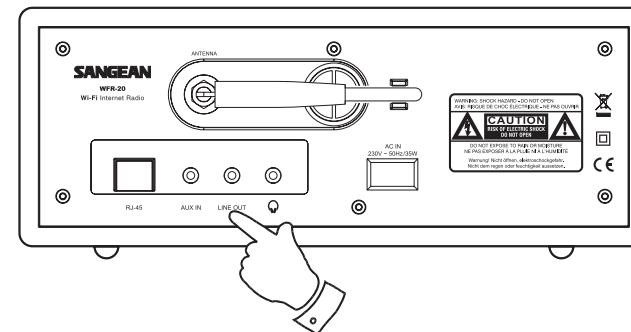
Specifications

Power Requirements

Mains	AC 230 volts, 50 Hz, or AC 110 volts, 60 Hz
Battery (Remote control)	CR2032 only

Connectivity

Wired Ethernet	10/100M bits/sec via RJ-45
Wi-Fi	802.11b and 802.11g supported WEP and WPA encryption supported

Circuit features

Loudspeaker	2 x 75 mm
Output Power	5 Watts RMS per channel
Headphone socket	3.5mm dia
Auxiliary In socket	3.5mm dia
Line Out socket	3.5mm dia
Aerial System	External Wi-Fi Antenna

If at any time in the future you should need to dispose of this product please note that: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive)

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Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the
user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the
device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure
requirements and void user's authority to operate the device.The antenna used for this transmitter must be installed to
provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with
any other antenna or transmitter.

FCC INFORMATION
•The Federal Communication Commission Radio Frequency Interference. Statement includes the following paragraph:
•The equipment has been tested and found to comply with the limits for a Class
B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed
to provide reasonable protection against harmful interference in a residential
installation. This equipment generates, uses and can radiate radio frequency
energy and, if not installed and used in accordance with the instruction, may cause
harmful interference to radio communication. However, there is no grantee that
interference will not occur in a particular installation. If this equipment dose cause
harmful interference to radio or television reception, which can be determined by
turning the equipment off and on , the user is encouraged to try to correct the
interference by one or more of the following measures:
--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the
  receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.

The user should not modify or change this equipment without written approval
form SANGEAN ELECTRONICS INC. Modification could void authority to use this equipment.