



TM8260 USER'S GUIDE



TAIT: THE RIGHT FIT

Directive 1999/5/EC Declaration of Conformity $(\in \mathbb{O})$ da

Dansk

Undertegnede Tait Electronics Limited erklærer herved, at følgende udstyr TMAA4C, TMAB1C, TMAH5C & TMAC0C overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

Se endvidere: http://eudocs.taitworld.com/

Deutsch de

Hiermit erklärt Tait Electronics Limited die Übereinstimmung der Geräte TMAA4C, TMAB1C, TMAH5C & TMAC0C mit den arundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/FG

Siehe auch: http://eudocs.taitworld.com/

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English en

Tait Electronics Limited declares that this TMAA4C, TMAB1C, TMAH5C & TMAC0C complies with the essential requirements and other relevant provisions of Directive 1999/5/EC.

See also: http://eudocs.taitworld.com/

es Español

Por medio de la presente Tait Electronics Limited declara que el TMAA4C, TMAB1C, TMAH5C & TMAC0C cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

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Par la présente. Tait Electronics Limited déclare que l'appareil TMAA4C, TMAB1C. TMAH5C & TMACOC est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. Voir aussi: http://eudocs.taitworld.com/

it Italiano

Con la presente Tait Electronics Limited dichiara che guesto TMAA4C, TMAB1C, TMAH5C & TMACOC è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE. Vedi anche: http://eudocs.taitworld.com/

nl Nederlands

Hierbij verklaart Tait Electronics Limited dat het toestel TMAA4C, TMAB1C, TMAH5C & TMACOC in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/ EG. Zie ook: http://eudocs.taitworld.com/

pt Português

Tait Electronics Limited declara que este TMAA4C, TMAB1C, TMAH5C & TMACOC está conforme com os requisitos essenciais e outras provisões da Directiva 1999/5/CE. Veia também: http://eudocs.taitworld.com/

sv Svensk

Härmed intygar Tait Electronics Limited att denna TMAA4C, TMAB1C, TMAH5C & TMACOC står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Se även: http://eudocs.taitworld.com/

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Safety and compliance warnings

To our European customers:



Tait Electronics Limited is an environmentally responsible company which supports waste minimization and material recovery. The European Union's Waste Electrical and Electronic Equipment Directive requires that this product be disposed of separately from the general waste stream when its service life is over. Please be environmentally responsible and dispose through the

original supplier, your local municipal waste "separate collection" service, or contact Tait Electronics Limited.

Radio frequency exposure information

For your own safety and to ensure you comply with the Federal Communication Commission's (FCC) radio frequency (RF) exposure guidelines, please read the following information before using this radio.

Using this radio

You should use this radio only for work-related purposes (it is not authorized for any other use) and if you are fully aware of, and can exercise control over, your exposure to RF energy. To prevent exceeding FCC RF exposure limits, you must control the amount and duration of RF that you and other people are exposed to.

It is also important that you:

- Do not remove the RF exposure label from the radio.
- Ensure this RF exposure information accompanies the radio when it is transferred to other users.
- Do not use the radio if you do not adhere to the guidelines on controlling your exposure to RF.

4 Safety and compliance warnings

Controlling your exposure to RF energy

This radio emits RF energy or radio waves primarily when calls are made. RF is a form of electromagnetic energy (as is sunlight), and there are recommended levels of maximum RF exposure.

To control your exposure to RF and comply with the maximum exposure limits for occupational/controlled environments, follow these guidelines:

- Do not talk (transmit) on the radio more than the rated transmit duty cycle. This is important because the radio radiates more energy when it is transmitting than when it is receiving.
- While you are transmitting (talking or sending data) on the radio, you must ensure that there is always a distance of 0.9m (35 inches) between people and the antenna. This is the minimum safe distance.
- Use the radio only with Tait-approved antennas and attachments, and make only authorized modifications to the antenna otherwise you could damage the radio and violate FCC regulations.



Website: For more information on what RF energy is and how to control your exposure to it, go to http://www.fcc.gov/oet/rfsafety/rf-faqs.html.

Compliance with RF energy exposure standards

This two-way radio complies with these RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR 1.1307, 1.1310 and 2.1091
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992

 Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition.

This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk to 50% listen.

Radio frequency emissions limits in the USA

Part 15 of the FCC Rules imposes RF emission limits on electronic equipment to prevent interference to reception of broadcast services.

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Note: Changes or modifications to this device that are not expressly approved by Tait Electronics Limited may make its use illegal.

Health, safety and electromagnetic compatibility in Europe

In the European Union, radio and telecommunications equipment is regulated by Directive 1999/5/EC, also known as the Radio and Telecommunications Terminal Equipment (R&TTE) directive. The requirements of this directive include protection of health and safety of users, as well as electromagnetic compatibility.

Intended use

This product is an FM radio transceiver. It is intended for radiocommunication in the Private Mobile Radio (PMR) or Public Access Mobile Radio (PAMR) services, to be used in all member states of the European Union (EU) and states within the European Economic Area (EEA).

Restrictions

This product can be programmed to transmit on frequencies that are not harmonised throughout the EU/EEA, and will require a licence to operate in each member state.

This product can be programmed for frequencies or emissions that may make its use illegal. Where applicable, a license must be obtained before this product is used. All license requirements must be observed. Limitations may apply to transmitter power, operating frequency, channel spacing, and emission.

Declaration of conformity

Brief Declarations of Conformity appear on page 3.



Website: To download the formal declaration of conformity, go to http://eudocs.taitworld.com/.

A signed and dated paper copy of the declaration of conformity can be obtained from Tait Europe Limited.

Electromagnetic compatibility in European vehicles

In the European Community, radio equipment fitted to automotive vehicles is regulated by Directive 72/245/EEC, as amended by 95/54/EC. The requirements of this directive cover the electromagnetic compatibility of electrical or electronic equipment fitted to automotive vehicles.

Note: To meet the requirements of Directive 72/245/EEC (as amended by 95/54/EC) installation of this product in a vehicle must be performed according to the instructions provided, and any guidelines of the vehicle manufacturer.

EN 60950 requirements (25 watt radios)

This radio complies with the European Union standard EN 60950 when operated up to the rated 33% duty cycle of two minutes transmit and four minutes receive, and with ambient temperatures of 30°C or lower.



Caution: Operation outside these limits may cause the external temperature of the radio to rise higher than this standard permits.

Safe radio operation



Warning: Observe the following safe operating practices:

- Switch the radio off at petrol filling stations or near flammable liquids or gases.
- Switch the radio off in the vicinity of explosive devices and blasting zones.
- Using a handheld microphone or a radio while driving a vehicle may violate the laws and legislation that apply in your country or state. Please check the regulations in your area.

High radio surface temperatures

The bottom surface of the radio bodies and the heatsink fins can become hot during prolonged operation. Do not touch these parts of the radio.

Radio protection when charging the vehicle battery

Always remove the fuses from the radio power cables before charging the vehicle battery, connecting a second battery or using power from another vehicle (e.g. when jump-starting the vehicle).

GPS operation

Tait Electronics Limited is not responsible for the operation or failure of operation of GPS satellites or the availability of GPS satellite signals.

Acknowledgement:

The radio uses an implementation of UTM conversion sourced (with permission) from Geoscience Australia (GA).

Your radio's settings

Use the following table to list your radio's programmed settings.

Radio identification

I

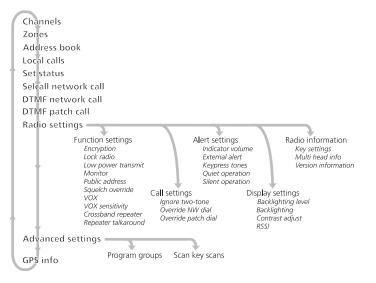
Radio name	Description	Radio name	Description
Frequently	used channels and	groups	
ID/Number	Description	ID/Number	Description
6			

Function key settings

(F1)		
F2		
F3		
F4		
quick access menus:	()	
menus:	\bigcirc	

Navigating your radio's menus

Note: Some of the menus shown below may not be available for your radio.



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About this guide

This user's guide provides information about the TM8260 mobile radio (version 4.0x and higher) when used in a dual radio system. If you need further assistance or your radio does not operate as you expect, contact your radio provider.



Website: For information about how to install your TM8260 radio system, go to http://support.tait-world.com/.

Safety warnings used in this guide

Within this guide, the following conventions are used to alert you to important safety information:



Warning: There is a potential risk of death or serious injury.



Caution: There is the risk of minor or moderate injury to people.

Caution: "Caution" is used without the safety alert symbol when there is a risk of equipment damage or malfunction.

Feedback about this guide

If you have any enquiries regarding this guide, or any comments, suggestions and notifications of errors, please contact Technical Support at http://support@taitworld.com.

Changes to this guide

In the interests of improving the performance, reliability or servicing of the equipment, Tait Electronics Limited reserves the right to update both the equipment or this user's guide, without prior notice.



Website: For contact details and technical assistance, go to http://www.taitworld.com/, and http://support.taitworld.com/.

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Disclaimer

There are no warranties extended or granted by this guide. Tait Electronics Limited accepts no responsibility for damage arising from use of the information contained in the guide or of the equipment and software it describes. It is the responsibility of the user to ensure that use of such information, equipment and software complies with the laws, rules and regulations of the applicable jurisdictions.

Getting started

This section provides a brief description of your radio's controls and indicators and explains how to use the radio's menus.

The following topics are covered in this section:

- about the foreground and background radio
- about the radio controls
- about the keypad microphone
- understanding the radio display
- understanding the radio indicators
- navigating your radio's menus
- viewing your radio's function key settings
- sharing a multi-head radio with other users.

About the foreground and background radio

The TM8260 can be installed and programmed as two radios, that can be accessed via the user-interface. In such a dual-radio system, one radio is always at the foreground, and one at the background. If monitoring both radios (dual receive), the speaker volume of the background radio is quieter than the speaker volume of the foreground radio.

To access features on the background radio (such as change the channel), you must first change that radio to the foreground. See "Switching between radios" on page 46.

The foreground radio is either:

- the radio currently showing in the display, or
- estitii R1:Channel 12 Annuel 12 R1:Channel 12 R2:Channel 3 Annuel 3 Menu
- the radio showing in larger text.

The background radio is the radio

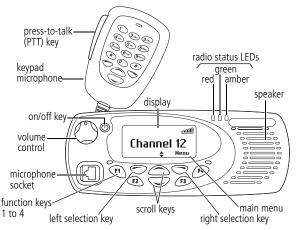
not showing in the display, or the radio showing in smaller text.

About the radio controls

The radio controls are the PTT key, volume control, on/off key, scroll keys, selection keys and function keys. Some keys may have functions assigned to both short and long key presses:

- a short key press is less than one second, and
- a long key press is more than one second.

See page 45 for further information on the radio controls during dual radio operation. The radio controls and their functions are summarized in the following diagram.



Symbol	Name	Function
	PTT key	Press and hold to transmit and release to listen
	Volume control	Rotate to change the speaker volume
0	On/off key	Turn the radio on or off with a long press
\bigcirc	Left selection key	Action determined by the text above the left selection key

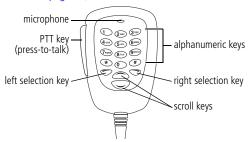
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Symbol	Name	Function
O	Right selection key	Action determined by the text above the right selection key
	Scroll keys	Scroll up and down through a list of menu options or scroll left and right in messages, or select your Quick Access menu
Tip: If you press and hold the scroll keys, the scroll speed increases.		
(F1) (F2) (F3) (F4)	Function keys 1, 2, 3 and 4	Switch the active radio and toggle dual receive and transmit May be programmed with additional options

About the keypad microphone

Your radio may have a keypad microphone installed. The keypad microphone has a PTT key as well as twelve alphanumeric keys, two scroll keys, and left and right selection keys.

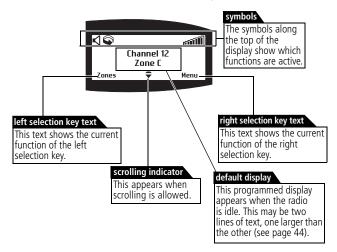
The PTT key and the scroll and selection keys work in the same way as those on the control head (see "About the radio controls" on page 16).



Understanding the radio display

The messages and symbols you see on your radio display depend on the mode in which your radio is operating and the way it is programmed.

The following diagram shows a typical display and explains some of the information that may be available.



Radio display symbols

These are some of the symbols you may see on you radio display:

Symbol	Meaning
ബി	Received signal strength indicator (RSSI): the more bars, the stronger the signal being received by your radio
<i>\$</i> \$	Transmit: your radio is transmitting
3	Low-power transmit: your radio is transmitting on low power
*	Silent operation: your radio's audible tones have been turned off
*	External alert: external alert is active
	Call queuing: call queuing is active
C	Queued call: there are calls in the call queue
Convent	ional mode symbols:
Ŷ	Scanning: your radio is monitoring a group of channels for activity (this symbol is animated)
\triangleleft	Monitor or squelch override: monitor or squelch override is active
+	Repeater talkaround: your radio is operating in repeater talka- round mode

Dual receive and transmit symbols:

- Dual transmit mode: your radio will transmit on both channels shown in the display
- Cross-band repeater mode: received signals on one channel will be transmitted on the other channel, and vice versa

Understanding the radio indicators

The status LED indicators and the radio's audible tones together with the radio display—all combine to give you information about the state of your radio.

The most common way the indicators work is described in the following sections.

Note: The way these indicators behave may be affected by the way your radio is programmed.

Meaning LED red Glowing: your radio is transmitting (transmit) Flashing: your transmit timer is about to expire, or your radio is stunned Glowing: your radio is receiving green (receive) Flashing: you have received a call with valid special signalling, or you have activated monitor or squelch override amber Glowing: your radio is scanning a group of channels for (scanning) activity Flashing: your radio has detected activity on a channel, and has halted on this channel

Status LED indicators

Audible tones

Note: If quiet or silent mode has been turned on, you will not hear any audible tones.

For a description of other tones you may hear, see "Describing the radio's audible tones" on page 50.

Tone type	Meaning
one short beep	Valid key press: the action you have attempted is permitted, or Function activated: a function key has been pressed and that function has been activated
one long, low-pitched beep	Invalid key press: the action you have attempted is not permitted, or Transmission inhibited: you have attempted to transmit but for some reason transmission is not permitted at this time
one short, low-pitched beep	Function deactivated: a function key has been pressed and the corresponding function has been turned off

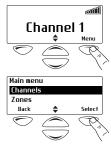
Navigating your radio's menus

Your radio has a number of menus available, each containing lists or submenus. The menus available will depend on the way your radio is programmed.

Using the Main menu

Whenever **Menu** appears above the right selection key \bigcirc , you are able to open the Main menu by pressing \bigcirc .

Use the scroll keys or to move through the list of menus. When the menu you want is highlighted, press **Select** to open the menu you have chosen.



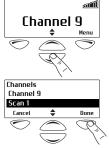
Using the scroll key Quick Access menu

Your radio may be programmed so that your scroll keys act as a shortcut to a frequently used menu. To go to this Quick Access menu, press a scroll key or , and the Quick Access menu appears.

For example, if your Channels menu is your Quick Access menu, press a scroll key cor cor to go directly to the Channels menu.

The Channels menu, with a list of your available channels and scan groups, is now displayed.

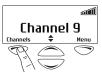
Note: Your scroll keys may be programmed for channel



scroll. If this is the case, press the scroll key to immediately begin scrolling through your list of channels.

Using the left selection key Quick Access menu

Your radio may be programmed so that your left selection key acts as a shortcut to another frequently used menu. If this menu has been programmed, the text for left selection key corresponds to the menu.



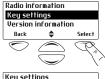
To use this Quick Access menu, press your left selection key \bigcirc , and the associated menu appears.

Viewing your radio's function key settings

Your radio's four function keys can have programmed functions assigned to each key. Some keys may have a function associated with both a short key press and a long key press. To check the functions assigned to the foreground radio's function keys, you can use the Main menu.

1 Select Menu>Radio settings> Radio information>Key settings.

2 In the Key Settings menu, scroll through the list of function keys.





3 Press **Select** to view details of the function associated with a particular function key.

The example shown is for a function key programmed to turn control-head backlighting on and off.



Sharing a multi-head radio with other users

Your radio may be installed with multiple control heads, so you can share the radio with other users. Elements of the user interface (such as display content, internal speaker audio, and LEDs) are duplicated on all control heads. When sharing the radio with other users:

 wait until other users have finished before using the radio. The radio may be in use if the red transmit LED is glowing, there is audio from the speaker, or there is userrelated activity (such as scrolling) on the display.

- you can change the display contrast and the volume without impacting on other users.
- features such as backlighting and indicator volume apply to all control heads. Consider other users before changing these features of the user interface.

Listening to outgoing transmissions

Your radio may be programmed so you can hear outgoing transmissions initiated from other control heads. You may need to remove the microphone from the microphone clip to hear these transmissions.

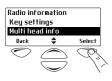
Identifying your control head type

Some actions apply to the primary control head only, such as adjusting the volume of a remote speaker.

To check whether your control head is the primary or secondary head:

- 1 Select Menu>Radio settings> Radio information>Multi head info.
- 2 Press **Select** to view the control head type.

In the example shown, the control head is the primary head.





Basic operation

This section describes the basic operation of your radio.

The following topics are covered in this section:

- turning the radio on and off
- entering your personal identification number
- adjusting the speaker volume
- turning on control-head backlighting
- changing the level of control-head backlighting
- changing the contrast of the radio display
- Viewing GPS information.

Turning the radio on and off

Give a long press of the on/off key to turn the radio either on or off.

When the radio is first turned on, the red, green and amber LEDs flash briefly and the radio gives two short beeps. A brief message may appear in the display.

Entering your personal identification number

You may need to enter a personal identification number (PIN) before you can use your radio. If the message **Enter PIN:** appears, enter your assigned PIN.

Enter PIN:	

Once you have entered your PIN correctly, the radio sounds two short beeps and normal operation is now possible.

If you do not know your PIN or you receive a **Wrong PIN** message, consult your radio provider or administrator.



Adjusting the speaker volume

Rotate the volume control clockwise to increase the speaker volume and counterclockwise to decrease the volume. The volume control also changes the volume level of the radio's audible indicators.

Note: Your radio may be programmed with a minimum volume level.

Turning on control-head backlighting

The radio's display and keypad light up when backlighting is on. This normally only happens when a key is pressed or a call is received. There are two ways you may be able to change the way backlighting operates on your radio:

- turn on backlighting momentarily, using a programmed function key, or
- change backlighting between on and off, using either a programmed function key or the Main menu.

Turning backlighting on momentarily by using a function key

You may be able to use a programmed function key to turn backlighting on momentarily. Backlighting remains on for a few seconds and then turns off.

Alternatively, the function key may be programmed so that:

- a short key press turns backlighting on momentarily, and
- a long key press turns backlighting on, and it remains on until there is a further long key press.

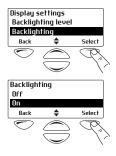
Turning backlighting on and off by using a function key

The function key programmed for Backlighting turns backlighting on and off. When backlighting is turned on, it remains on until the function key is pressed again.

Turning backlighting on and off by using the Main menu

When backlighting is turned on using the menu, it remains on until the setting is changed to off, regardless of radio activity.

- Select Menu>Radio settings> Display settings>Backlighting.
- 2 In the Backlighting menu, choose either **On** or **Off**.



3 Press Select.

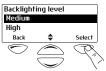
Changing the level of control-head backlighting

The radio's display and keypad light up when backlighting is on. This normally only happens when a key is pressed or a call is received.

You may be able to change the level of control-head backlighting using the Main menu.

- 1 Select Menu>Radio settings> Display settings>Backlighting level.
- 2 In the Backlighting Level menu, choose either High, Medium or Low.
- 3 Press Select.

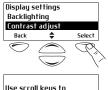




Changing the contrast of the radio display

If the radio's display is too dark or too light, you may be able to adjust the contrast by using the Contrast Adjust menu.

- Select Menu>Radio settings> Display settings>Contrast adjust.



Save

adiust

Cancel

3 Press **Save** to save this setting.

Viewing GPS information

Your radio may be connected to a GPS (global positioning system) receiver, and programmed (see the note below) so you can view GPS information such as latitude and longitude, true course, speed, and coordinated universal time. Your radio may also be programmed to display UTM (universal transverse mercator) information such as the UTM zone, and northing and easting coordinates.

Note: GPS information on the radio display is not a standard feature. Before being programmed, it must be purchased and enabled on the radio via the Software Feature Enabler. Contact Tait Electronics Limited for more information.

While viewing GPS information, the status appears at the top right of the display. This shows **tracking** if the GPS receiver is communicating with a satellite, **lost cnx** if the radio has lost serial communications with the GPS receiver, or **stored** if the GPS receiver is having trouble connecting to a satellite, and the radio is displaying stored information that may not be current. To view GPS information, you may be able to either:

- use a programmed function key, or
- use the Main menu.

Viewing GPS information by using a programmed function key

1 Press the function key programmed for GPS display.

GPS information is now shown in the display.



- 3 Press Exit to exit the GPS display.

Viewing GPS information by using the Main menu

1 Select Menu>GPS info.

- Press Exit to exit the GPS display.



Single radio operation

The following topics are covered in this section:

- selecting a zone
- selecting a channel
- selecting a group
- checking that a channel is clear
- making a call
- making a local call
- making a call using your address book
- receiving a call.

Selecting a zone

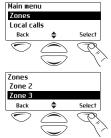
A zone is a collection of channels and groups. When you select a zone, only the channels and groups assigned to that zone are available.

To select a zone on the foreground radio you may be able to either:

- use the Main menu, or
- use your Quick Access menu.

Selecting a zone by using the Main menu

- 1 Select Menu>Zones.
- 2 In the Zones menu, scroll through the list of zones until the one you want appears.



3 Press Select.

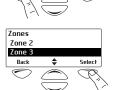
The zone indication may be programmed to appear either below the channel information or beside the RSSI symbol.

aaîîÎ Channel 9 Zone 3 ♦ Menu

Selecting a zone by using your Quick Access menu

Alternatively, the left selection key may be programmed as your Quick Access menu. In this case, press the left selection key to access the Zones menu.

2 Scroll through the list of zones until the zone you want appears.



Channel 1

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Zones

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Menu

3 Press Select.

The zone indication may be programmed to appear either below the channel information or beside the RSSI symbol.



Selecting a channel

To select a channel on the foreground radio you may be able to either:

- use a programmed function key,
- use the Main menu, or
- use your quick access menu.

Selecting a channel by using a programmed function key

Press the function key programmed for preset channel.

The programmed channel is now shown in the display.

Selecting a channel by using the Main menu

- 1 Select Menu>Channels.
- 2 In the Channels menu, scroll through the list of channels until the channel you want appears.
- 3 Press Done.

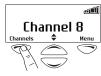
The programmed channel is now shown in the display.

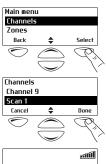
Selecting a channel by using your Quick

Selecting a channel by using your Quick Access menu

Note: Your scroll keys may be programmed for channel scroll. If this is the case, press the scroll key to immediately begin scrolling through your list of channels.

Alternatively, the left selection key may be programmed as your Quick Access menu. In this case, press the left selection key to access the Channels menu.





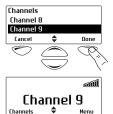
Channel 9

Menu



- 2 Scroll through the list of channels until the channel you want appears.
- 3 Press Done.

The programmed channel is now shown in the display.



Selecting a group

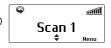
A group is a collection of channels that are grouped together for either scanning or voting. In the Channels menu, the group is shown as being a single channel item, e.g. "Scan1". To select a group on the foreground radio you may be able to either:

- use a programmed function key,
- use the Main menu, or
- use your quick access menu.

Selecting a group by using a programmed function key

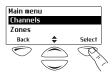
Press a function key programmed for group scanning.

The programmed group is now shown in the display, the amber LED glows and the scanning symbol appears in the display.

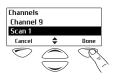


Selecting a group by using the Main menu

1 Select Menu>Channels.



2 In the Channels menu, scroll through the list of channels and groups until the group you want appears.



3 Press Done.

The amber LED glows and the scanning symbol \bigcirc appears in the display.



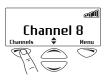
Selecting a group by using your Quick Access menu

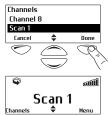
- **Note:** Your scroll keys may be programmed for channel scroll. If this is the case, press the scroll key to immediately begin scrolling through your list of channels and groups.

Alternatively, the left selection key may be programmed as your Quick Access menu. In this case, press the left selection key 👓 to access the Channels menu.

- 2 Scroll through the list of channels and groups until the group you want appears.
- 3 Press Done.

The amber LED glows and the scanning symbol \bigcirc appears in the display.





Checking that a channel is clear

You or your user group may be segregated from other user groups by special signalling. If an incoming call carries the special signalling tones specific to you or your user group, your radio's signalling mute opens and you can hear the call. These tones may not be audible.

The monitor function may allow you to override any special signalling on a channel, so that you can check that the channel is clear before you make a call.

Note: Your radio may be programmed to activate monitor whenever the microphone is off the microphone clip.

To activate monitor on the foreground radio, you may be able to either:

- remove the microphone from the microphone clip,
- use a programmed function key, or
- use the Main menu.

Activating monitor by using a function key

1 Press the monitor function key to activate monitor and hear any traffic on the channel.

While monitor is on, the green LED flashes slowly and the monitor symbol ◀ appears in the display.



2 Press the monitor function key again to turn monitor off, or wait for monitor to turn off automatically, after a programmed delay.

When monitor turns off, the green LED stops flashing and the monitor symbol
disappears from the display.

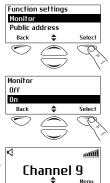


Note: Your radio may be programmed so that monitor turns off automatically after a short time.

Activating monitor by using the Main menu

- 1 Select Menu > Radio settings > Function settings > Monitor.
- 2 In the Monitor menu, choose **On**.
- 3 Press Select.

While monitor is on, the green LED flashes slowly and the monitor symbol ◀ appears in the display.



Note: Your radio may be programmed so that monitor turns off automatically after a short time.

Communicating directly with other radios

You can bypass the radio repeater and communicate directly with another radio. This feature is known as repeater talkaround.

You can do this, for example, when you are out of range of the repeater, or if the repeater is busy or stops working for whatever reason.

While repeater talkaround is active, all transmissions are made on the receive frequency of the channel you are on.

To activate repeater talkaround on the foreground radio, you may be able to either:

- use a programmed function key, or
- use the Main menu.

Activating repeater talkaround by using a function key

- 1 Change to the required channel.
- 2 Press the programmed function key to turn repeater talkaround on.

The message Talkaround activated appears and the repeater talkaround symbol $|| \rightarrow ||$ appears in the display.

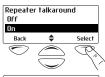
- 3 Proceed with your call.
- 4 To turn repeater talkaround off, either:
 - change the channel, or
 - press the function key again.

Activating repeater talkaround by using the Main menu

- 1 Change to the required channel.
- 2 Select Menu > Radio settings > Function settings > Repeater talkaround.
- 3 In the Repeater talkaround menu, choose **On**.
- 4 Press Select.

The message Talkaround activated appears. The repeater talkaround symbol $\left| + \right|$ appears if you navigate to the default display.

- **5** Proceed with your call.
- 6 To turn repeater talkaround off, either:
 - change the channel, or
 - choose Off in the Repeater talkaround menu and press Select.







Making a call

The steps below explain how to make a call on the foreground radio. See page 46 for information on how to make a call on more than one radio.

- 1 Select the required channel or scan group.
- 2 Check that the channel is clear. If the green LED is glowing, the channel is busy and you may not be able to transmit.
- **3** Once the channel is clear (the green LED is off), lift the microphone off the microphone clip.
- 4 Hold the microphone about 5 cm (2 inches) from your mouth.
- 5 Press and hold the PTT key to transmit.
- **6** Speak clearly into the microphone and release the PTT key when you have finished talking.

While you are transmitting, the red LED glows and the transmit symbol **S** appears in the display.



Transmit timer

Your radio may have a transmit timer that limits the amount of time you can transmit continuously.

When the transmit timer is about to expire, the message **Transmit timeout imminent** appears in the display, the red LED flashes and the radio gives three beeps.



If the transmit timer has timed out, you must release the PTT before you can transmit again.

Making a local call

Each channel on your radio may have one or more local calls programmed. To make a local call on the foreground radio you may be able to either:

- use the Main menu, or
- use your Quick Access menu.

Making a local call by using the Main menu

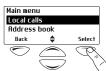
- **1** Select the required channel.
- 2 Select Menu > Local calls.
- 3 In the Local Calls menu, scroll through the list of local calls until the call you want appears.
- 4 Press Send.

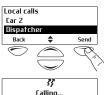
The call details appear in the display, the red LED glows and the transmit symbol \$ appears in the display.

Making a local call by using your Quick Access menu

- **1** Select the required channel.
- 2 Press one of the scroll keys *C* or \bigcirc to open the Local Calls menu.









- 3 Scroll through the list of local calls until the call you want appears.
- 4 Press Send.

The call details appear in the display, the red LED glows and the transmit symbol symptotic appears in the display.

Local ca	lls	
Car 2		
Dispatc	her	
Back	\$	Send
\bigcirc		P.
	33	
	Calling	
	Dispatcher	
Clear		

Making a call using your address book

Your Address Book menu has a programmed list of calls, which can be made from any channel or zone. Address-book calls may also be used to send status information, such as "at lunch" or "on site".

To make a call on the foreground radio using your address book, you may be able to either:

- use a programmed function key,
- use the Main menu, or
- use your Quick Access menu.

Making an address-book call by using a function key

Press the function key programmed for Address Book Call.

The call details appear in the display, the red LED glows and the transmit symbol so appears in the display.

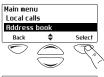
	37	
	Calling	
	Base	
Clear		

Making an address-book call by using the Main menu

1 Select Menu>Address book.

- 2 In the Address Book menu, scroll through the list of calls until the call you want appears.
- 3 Press Send.

The call details appear in the display, the red LED glows and the transmit symbol symptotic appears in the display.





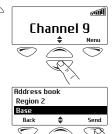
Base

flear

Making an address-book call by using your Quick Access menu

- Press one of the scroll keys or → to open the Address Book menu.
- 2 Scroll through the list of calls until the call you want appears.
- 3 Press Send.

The call details appear in the display, the red LED glows and the transmit symbol sympasis in the display.





Receiving a call

When there is valid activity on the currently selected channel or group on the foreground radio, the radio then unmutes and you can hear the call. The radio may also unmute if there is activity on the background radio, depending on the current mode.

If the incoming call contains special signalling that matches the signalling programmed for your radio, the green LED flashes and your radio may give a ringing tone.

Note: If monitoring both radios (dual receive), activity received on the background radio is quieter than activity received on the foreground radio.

Dual radio operation

The TM8260 can be installed and programmed as two radios, with one user-interface. This enables you to switch between the radios, and access different features and channels on those radios (for example, channels that operate on different frequency bands). You can also toggle modes that enable you to receive and transmit on both radios at the same time.

Each radio in a system may be identified by a unique name, which appears before all channel and group labels.

The following topics are covered in this section:

- dual radio display states and descriptions
- radio controls in a dual radio system
- switching between radios (changing the foreground radio)
- making a call on more than one radio (dual transmit)
- monitoring more than one radio (dual receive)
- cross-band repeater mode.

Dual radio display states and descriptions

The following table lists various states of the radio display, and the implications for transmitting and receiving.

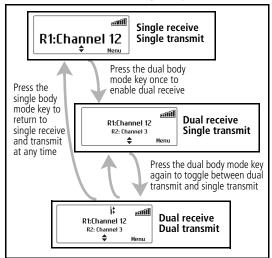
Display	Description
enal R1:Channel 12 ♦ Menu	The radio system will receive and transmit on the foreground radio only.
anîlî R1:Channel 12 R2: Channel 3 ✦ Menu	The radio system will receive on both radios, and transmit on the foreground radio only.
ট ্রার্মী R1:Channel 12 R2: Channel 3 ✦ Menu	The radio system will receive and transmit on both radios.
+i+ antil R1:Ehannel 12 R2: Ehannel 3 ♦ Menu	Received signals on one radio will be transmitted on the other radio and vice versa. If initiating a transmission, the radio system will transmit on the foreground radio only.
it mill R1:Ehannel 12 R2: (hannel 3 ◆ Menu	Received signals on one radio will be transmitted on the other radio and vice versa. If initiating a transmission, the radio system will transmit on both radios.

Radio controls in a dual radio system

Certain radio controls and functions are global and apply to the radio system as a whole. The on-off key turns the entire radio system on or off. The volume control adjusts the volume of all received audio and indicators. Functions and menu options relating to the radio display and audible indicators are also global.

Many other functions and menu options apply to the foreground radio only. Examples include changing channels and zones, and toggling monitor. See "Switching between radios" on page 46.

You can switch between the various dual receive and transmit states using one or two function keys programmed for dual body mode and single body mode. If programmed for a single key, dual body mode is assigned to a short press and single body mode is assigned to a long press. The following diagram summarizes how to enable dual receive and dual transmit and how to return to single body mode.



Switching between radios (changing the foreground radio)

In a dual-radio system, one radio is always at the foreground and one at the background. For more information, see "About the foreground and background radio" on page 15.

To change the foreground radio, press the function key programmed for switching the active radio.



R2:Channel 3

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The display will change to show the new radio name, and the currently selected channel or group on that radio.

Note: The radio may automatically switch the background radio to the foreground in certain circumstances, for example, when you receive a call with matching signalling, or you receive a short data message.

Making a call on more than one radio (dual transmit)

Press the function key 1 programmed for dual body mode once, or twice, until "Dual transmission activated" appears.

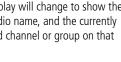
While dual transmit is activated. the **i** symbol and the two channels to transmit on will appear

Dual ansmission



on the default display. The large text shows the foreground radio. The **smaller text** shows the background radio

- 2 Select the required channel or scan group on the first radio.
- 3 Press the function key programmed for switching the active radio



- **4** Select the required channel or scan group on the second radio.
- **5** Press and hold the PTT key to transmit.
- 6 Press the function key programmed for dual body mode or the key programmed for single body mode to disable dual transmission.
 - Press the dual body mode key to receive on both radios.
 - Press the single body mode key to receive on the foreground radio only.

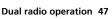
Monitoring more than one radio (dual receive)

 Press the function key programmed for dual body mode.

While dual receive is activated, two channels will appear on the default display. The **large text**

shows the foreground radio. The smaller text shows the background radio.

- 2 If necessary, press the function key programmed for switching the active radio to change the foreground radio.
- **Note:** Activity on the foreground radio will be louder than activity on the background radio.
- 3 Press the function key programmed for single body mode to return to receiving on the foreground radio only.







	ബി
R1:Channel 12	
R2: Channel 3	
\$	Menu



Cross-band repeater mode

Cross-band repeater mode allows the radio to be used as a temporary repeater. Any activity received on one radio will be automatically transmitted on the other radio, and vice versa.

Activating cross-band repeater mode by using a function key

1 Press the function key programmed for cross-band repeater.

While on, the ***I*** symbol appears in the display.

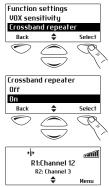


 Press the function key again to turn cross-band repeater mode off.

Activating cross-band repeater mode by using the main menu

- Select Menu>Radio settings>Function settings>Crossband Repeater.
- 2 In the Crossband Repeater menu, choose **On**.
- 3 Press Select.

While on, the ***I*** symbol appears in the display.



Troubleshooting

The following topics are covered in this section:

- when your radio won't turn on
- removing the microphone
- reinstalling the microphone
- describing the radio's audible tones.

When your radio won't turn on

If the red, green and amber LEDs on the control head do not light up when the radio is turned on, or you cannot switch between radios, it is likely that no power is reaching part or all of the system. Check the following:

- Are the power connectors firmly plugged into the rear of both radios?
- Are the in-line fuses in good condition?
- Are the power cables securely connected to the vehicle battery or power supply?

If all appears to be in order, then contact your radio provider for further assistance.

Removing the microphone

 Using your thumb or forefinger, lift up one of the corners of the microphone grommet. Firmly (but gently) pull that corner until the seal comes away from the cavity.



- 2 Repeat to expose another corner.
- **3** Pull the exposed corners back and slide the grommet up the microphone cable to reveal the microphone plug.
- 4 Remove the plug from the microphone socket.

Reinstalling the microphone

- **Caution:** The microphone grommet must be installed whenever the microphone is plugged into the microphone socket.
- **1** Plug the microphone into the microphone socket.
- 2 Slide the microphone grommet along the microphone cord and push two adjacent corners of the grommet into the microphone socket cavity.
- **3** Squeeze the grommet and push the remaining corners into position.
- 4 Check that the grommet is seated correctly in the cavity.



Describing the radio's audible tones

The following table summarizes the radio's audible tones.

Action and tone	Meaning
two short beeps	Radio turned on: the radio is powered on and ready to use
one short beep after the power-up beeps	Radio locked: you need to enter your personal identity number (PIN) before you can use the radio
one long, low- pitched beep	Radio PIN entry unsuccessful: you need to re-enter your PIN
two short beeps	Radio PIN entry successful: the radio is now ready to use
one short beep	Function activated: a function key has been pressed and that function has been initiated
one short, low- pitched beep	Function deactivated: a function key has been pressed and the corresponding function has been turned off

Action and tone	Meaning
one long, low- pitched beep	Invalid key press: the action you have attempted is not permitted, or
	Transmission inhibited: you have attempted to transmit but for some reason transmission is not permitted at this time
one short, high- pitched beep	Radio is stunned: the radio has been made inoper- able by your service provider
two short beeps	Radio is revived: the radio has been made opera- ble by your service provider
three beeps	Transmit timeout imminent: in 10 seconds your transmit timer will expire and your current transmission will be terminated
two low- pitched beeps	Radio's temperature is high: the radio's temperature is in the high-temperature range, but the radio will continue to operate
two high-pitched beeps	Radio's temperature is very high: the radio's temperature is in the very high temperature range and all transmissions will now be at low power; if the radio's temperature rises outside this range, transmissions will be inhibited
continuous low- pitched tone	Radio system error: a system error has occurred and the radio may be inoperable
two long low-high pitched tone pairs	Synthesizer is out-of-lock: the radio's synthesizer is out-of-lock on the current channel and you cannot operate on that channel

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