

GP366R User Guide

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# **SAFETY**

# PRODUCT SAFETY AND RF EXPOSURE COMPLIANCE



Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet enclosed with your radio.

#### ATTENTION!

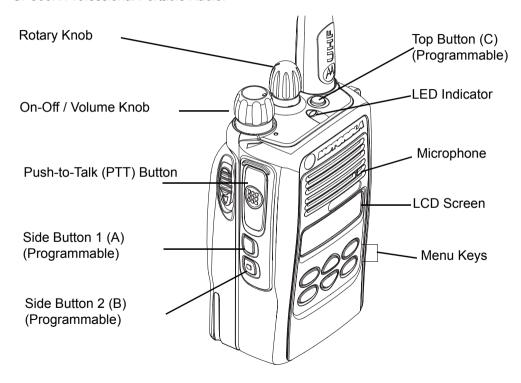
This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet enclosed with your radio (Motorola Publication part number 6864117B25) to ensure compliance with RF energy exposure limits.

For a list of Motorola-approved antennas, batteries, and other accessories, visit the following web site which lists approved accessories:

http://www.motorola.comgovernmentandenterprise

# **RADIO OVERVIEW**

This user guide covers the operation of the GP366R Professional Portable Radio.



#### **OPERATION AND CONTROL FUNCTIONS**

#### **Radio Controls**

The numbers below refer to the illustrations on the inside front cover.

# 1. Rotary Knob

Used as a channel selector and for multifunction scrolling.

#### 2. On-Off / Volume Knob

Used to turn the radio on or off, and to adjust the radio's volume.

## 3. Push-to-Talk Button (PTT)

Press and hold down this button to talk, release it to listen.

# 4. Side Button 1 (Programmable)

Recommended for Monitor/ Call Cancel Button.

- 5. Side Button 2 (Programmable)
- **6. Top Button** (programmable) Recommended as Emergency button.

#### 7. LED Indicator

Green: Successful power up. Green Flashing: Radio scanning.

Red: Radio transmitting.

Red Flashing: Channel busy - when

receiving.

Yellow: Radio called.

Yellow Flashing: Radio call reminder alert. Red Flashing: Low battery warning - when transmitting.

- 8. Microphone
- 9. LCD Display (1 Line)
- 10. Menu Keys
- 11. Antenna

# 12. Accessory Connector

Connects headsets, remote speaker/ microphones and other accessories. Replace attached dust cap when not in use.

# **Programmable Buttons**

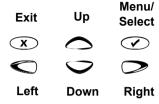
Several of your radio buttons can be programmed (by Customer Programming Software CPS) to activate the radio features.

The following table shows the features that can be assigned to the Top button and Side Buttons 1 and 2.

Feature	Description
Monitor/Cancel	Monitor allows user to select between signalling squelch, carrier squelch and unsquelch, and to suspend scan when landed on a channel in scan mode.  Cancel allows user to cancel current incoming or outgoing call.
Radio Call	To make an individual or group selective call.
Missed Call List	Allows user direct access into the Missed Call List menu feature.
Contact List	Allows user direct access into Contact List menu feature.
Status List	Allows user direct access into Status List menu feature.
Channel	Allows user direct access into the Channel mode. The rotary knob (1) is set to increment/decrement the channel number.

Feature	Description
Scan On/Off	To toggle between start and stop of the scan operation.
Nuisance Delete	To delete a nuisance (unwanted) channel when scanning, with exception of priority channel, last channel in scan list and home channel.
Power Level	To toggle the radio's transmit power level between High and Low.
Talkaround On/Off	To talk directly with another radio without going through a system or despatcher.
Emergency	Activates emergency alarm sequence.
Lone Worker	To identify user as a lone worker. Radio enters emergency sequence unless user responds, when prompted, by pressing any radio button.
Call Forward	To transfer calls automatically to another radio if user is unable to take the call.
Whisper	To increase the gain of the radio microphone to allow user to speak quietly.
Companding On/Off	To toggle between compression/expansion of audio signal and normal audio signal.
Backlight	To toggle the display backlight on and off.

# Menu Keys



# Menu/Select Key 🗸

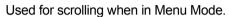
Used to enter the Menu Mode. When you are in the Menu Mode, this key is also used to make menu selections.

Note: When the radio is in the IDLE STATE, pressing any of the six menu keys causes the radio to enter the Menu mode.

# Exit Key X

Used to move up to the next higher Menu level. When the top level menu is selected, this key is used to exit the Menu Mode.

# Up Key 🦳



# Down Key 🔾

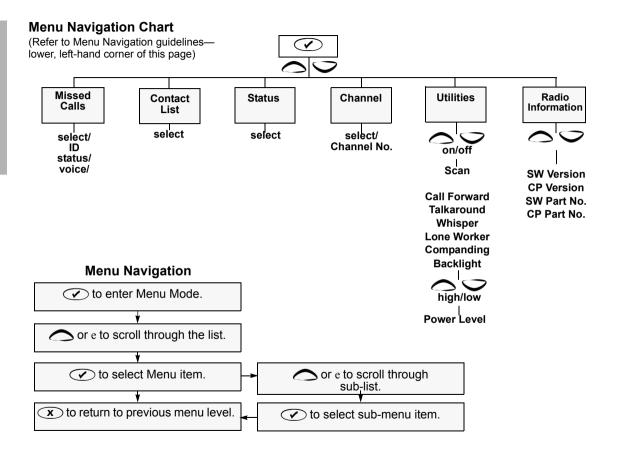
Used for scrolling when in Menu Mode.

# Right Key

Used as More key to provide additional information.

# Left Key C

Used as a destructive backspace key when editing.



# **LCD Display and Icons**



Displays channel, menu, and radio status information. The top two screen rows show radio status indicator symbols, explained in the table below:

Symbol	Name and Description	
	XPAND™ Indicator	
	Indicates that your radio has the companding feature activated.	
LΗ	Power Level Indicator	
	"L" lights when your radio is configured to transmit in Low Power. "H" lights when your radio is configured to transmit in High Power.	

Symbol	Name and Description	
Д	Monitor Indicator	
	On indicates carrier squelch. Off indicates signalling squelch.	
Z.	Scan Indicator Indicates that you are scanning. The dot is lit during priority scan mode.	
Ø	Keypad Lock Indicator	
	On indicates that the menu keys are locked. Off indicates unlocked.	
iiii:	Battery Level Indicator	
	Shows the remaining charge in your battery, based on how many bars are displayed.Flashing, indicates flat battery.	
0	DTMF Indicator Indicates DTMF is enabled.	
	Missed Call Indicator	
	On indicates call in list. Off indicates no calls in list.	
	Flashing, indicates new call in list.	

Symbol	Name and Description
<b> → </b>	Talkaround Indicator Indicates talkaround enabled.
88:88	Timer
	Shows the call time.

# **Audio Signal Tones**

High pitched tone ☐ Low pitched tone ■

Tone	Signal	Description
Power up OK		Radio self-test OK.
Power up Fail		Radio self-test fail.
Button/ Keypad Error		Button/menu key press not permitted.
Engaged		Channel busy or not permitted to transmit.

Tone	Signal	Description
Call Failed		Call failed to connect.
Force Monitor		Radio must monitor channel before transmission permitted.
Button Feature Enable		Any option button pressed to enable a feature.
Button Feature Disable		Any option button pressed to disable a feature.
Group Call		Radio receives a Group Call.
Individual Call		Radio receives an Individual Call.
Call Reminder		Reminder of unanswered call.
TOT Pre- Alert		Warns of expiry of time out timer.
Monitor Alert		Alerts to change of squelch.

Tone	Signal	Description
Scan Start		Radio starts scanning.
Scan Stop		Radio stops scanning.
Priority Call Decode		Radio detects a priority call.
Priority Channel		Radio landed on the priority channel.
Lone Worker		Reminds lone worker to respond.
Low Battery		Battery below receive threshold level.

Tone	Signal	Description
Hardware Error		Hardware error, tone continues until valid operation.
Channel Free Beep		Indicates current channel is free.
Incoming Emergency Alert		Indicates an emergency situation.
Keypad Acknowledg e		Confidence tone when any key pressed.
Ringtones	English/ French/ General	Incoming calls (high tones), outgoing calls (low tones).

# **GETTING STARTED**

#### **BATTERY INFORMATION**

# **Battery Care and Tips**

This product is powered by a lithium-ion rechargeable battery.

The following battery tips will help you obtain the highest performance and longest cycle life from your Motorola rechargeable battery.

- Charge your new battery overnight (14-16 hrs) before using it to obtain maximum battery capacity and performance.
- Charging in non-Motorola equipment may lead to battery damage and void the battery warranty.
- When charging a battery that is attached to the radio, turn the radio off to ensure a full charge.
- The battery should be at about 25°C (room temperature) whenever possible. Charging a cold battery (below 10°C) may result in leakage of electrolyte and ultimately, in

- failure of the battery.
- Charging a hot battery (above 35°C) results in reduced discharge capacity, affecting the performance of the radio. Motorola rapidrate battery chargers contain a temperature-sensing circuit to ensure that the battery is charged within these temperature limits.
- New batteries can be stored up to two years without significant cycle loss. Store new/unused batteries in a cool dry area.
- Batteries which have been in storage should be charged overnight.
- Do not return fully charged batteries to the charger for an "extra boost". This action will significantly reduce cycle life.
- Do not leave your radio and battery in the charger when not charging. Continuous charging will shorten battery life. (Do not use your charger as a radio stand.)
- For optimum battery life and operation use only Motorola brand chargers. They were designed to operate as an integrated energy system.

# **Recycling or Disposal of Batteries**

Motorola endorses and encourages the recycling of all re-chargeable batteries. Contact your local Motorola dealer for further information.

# **Charging the Battery**

If a battery is new, or its charge level is very low, you will need to charge the battery before you can use it in your radio.

The **IIIII** icon flashes when the battery is flat and the hardware error tone will sound. This icon will only appear when a genuine Motorola battery is used.

**Note:** Batteries are shipped uncharged from the factory. New batteries could prematurely indicate full charge, charge a new battery for 14-16 hrs before initial use.

Charger LED	Status
Red	Battery is charging
Green	Battery is fully charged
Flashing Red *	Battery is unchargeable
Flashing Yellow	Charger is getting ready to charge
Flashing Green	Battery is 90% charged

<sup>\*</sup> Battery is damaged. Please contact your dealer.

- I. Place the radio with the battery attached, or the battery alone, in the charger.
- The charger's LED indicates the charging progress.

Battery chargers will charge only the Motorola authorized batteries listed below; other batteries will not charge.

Table 1: IP67 Radio Battery List

Part No.	Description		
PMNN4073_	Li-Ion FM IP67 Standard Battery		
PMNN4074_	Li-Ion Non-FM IP67 Standard Battery		
Do not use IP54 batteries with IP67 radio.			

**Note:** IP67 water submersible radios MUST be fitted with Motorola authorized IP67 batteries to ensure proper functionality.

**Warning:** When charging a IP67 battery, make sure that the IP67 battery (or IP67 battery with IP67 radio) is not wet prior to placing in the charger.

Warning: The battery charger is not waterproof. For your safety and proper operation of the charger, IP67 radios MUST be dry prior to placing in the battery charger for charging. Do NOT operate the charger, when your hands are wet or while holding a wet IP67 radio. Do NOT touch the battery contacts, when your hands are wet. Do NOT put the battery into water, as this may cause the IP67 metal contacts to corrode.

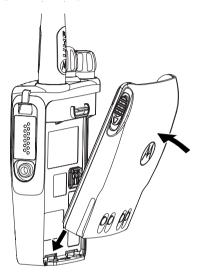
**Battery Label** 

IP67



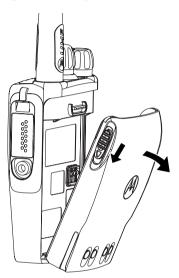
#### **ACCESSORY INFORMATION**

# **Attaching the Battery**



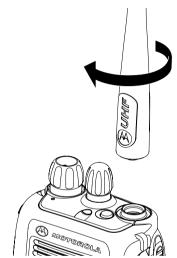
- **1.** Fit the extensions at the bottom of the battery into the slots at the bottom of the radio's body.
- **2.** Press the top part of the battery towards the radio until you hear a click.

# Removing the Battery



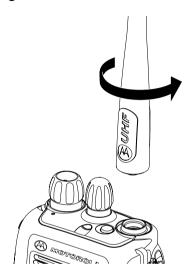
- 1. Turn off the radio, if it is turned on.
- **2.** Slide the battery latches, on both sides of the battery, downwards.
- **3.** Pull the top part of the battery away from the radio's body, and remove the battery.

# **Attaching the Antenna**



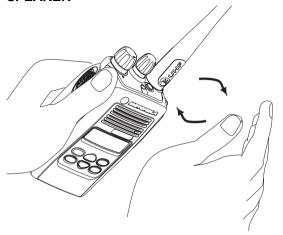
- **1.** Align the threaded end of the antenna with the radio's antenna connector.
- 2. Turn the antenna clockwise to fasten it.

# **Removing the Antenna**



**1.** Turn the antenna counterclockwise until you can remove it.

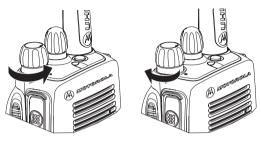
# DRAINING WATER FROM THE IP67 GP366R SPEAKER



If you accidentally drop your GP366R radio into water, pick up the radio, and gently tap the radio (as shown above) to remove the water from the speaker grille and microphone port before using it.

Warning: Do not submerge your radio for any longer than 30 minutes and no deeper than 1 metre. If these limits are exceeded then your radio could be permanently damaged.

# RADIO OPERATION Turning the Radio On or Off



ON

- OFF
- To turn the radio on, turn the **On-Off/ Volume Control** knob clockwise.
- To turn the radio off, turn the On-Off/ Volume Control knob counterclockwise until you hear a click.

# Radio On Message

At power up the radio will display a message customized by your dealer, e.g.:

After this text has been displayed, the radio perform a self test routine. On completion of a successful self test the radio will display:

This may be a number or an alias and will be the channel currently selected by the rotary channel selector. Alternatively, if required the radio may display a message customized by your dealer, e.g.

**Note:** If your radio fails the self test routine consult your dealer.

# Adjusting the Radio's Volume

 Turn the On-Off/Volume Control knob to adjust the volume level.

# Selecting a Radio Channel

Your radio offers up to 255 channels, however some may not be programmed. Check with your dealer for more information.

Before selecting a channel ensure your radio is in channel mode.

**Note:** The rotary knob default is channel mode. There are two ways to enter channel mode:

#### Method 1

Press the Channel Mode direct access button, if programmed by your dealer.

#### Method 2

- 1 vo enter Menu Mode
- 2 or until: (Channel
- 3 v to select
- Display shows e.g.: Chan: 05

**Note:** After a short period of inactivity the radio returns to the IDLE STATE.

Once in channel mode, there are two ways to select a channel:

#### Method 1

Turn the rotary knob (1) clockwise or counterclockwise until you reach the desired channel indicated on the display.

#### Method 2

1 or Until:

Channel Number or Alias

2 v to confirm your selection.

Display shows: (for 2 seconds)

Selected

# Sending a Call

- 1. Select the desired radio channel.
- 2. Press the PTT button and speak clearly into the microphone. Your mouth should be 2.5 to 5 cm away from the microphone.
- **3.** When transmitting, the red indicator will light continuously.
- 4. Release the PTT button to listen.

Your radio may be configured for 'Transmit Inhibit' under certain conditions (e.g. when the channel is in use by others) in which case, the channel busy tone will sound when you press the PTT or call button to indicate that transmission is inhibited.

When the channel is free, the Channel Free beep will sound, and you can make a call.

If your radio is equipped with a transmit time out timer (TOT), a warning tone \_\_\_\_will sound a few seconds before the transmission is cut off. Your radio may be programmed to inhibit retransmission within a preset time.

# Receiving a Call

- Turn your radio on and adjust the volume level.
- Switch to the desired radio channel.
- If, at any time, a call is received you will hear the call at the volume level you have set.

**Note:** The system may have a limited call time and the call may be terminated automatically if this call time is exceeded.

# **Cancelling a Call**

At any time while setting up a call it may be cancelled by pressing the Monitor/Call Cancel button.

The call timer can also cancel a call.

# **Ending a Call**

A call should always be ended by pressing the Monitor/Call Cancel button.

# RADIO CALLS

# **RADIO CALLS**

#### SELECTIVE CALLS

# Making a Selective Call

You can make a selective call to a particular radio, known as an individual call, or a group of radios, known as a group call.

You can make calls by using the **Contact List**, the **Missed Calls List**.

# **Receiving a Selective Call**

When you receive a selective call, you will hear either.

or a group call alert tone

The LED Indicator will light (yellow) and the display will show the alias (name) or number (address) of the calling radio e.g.

Display shows:

(Addr: 234

To answer the call:

- Press the PTT button or Call button.
- The call will terminate automatically when the conversation has ended or press the Monitor button.

Your radio has a call timer which shows the time used on an incoming or outgoing selective call

e.g.

Display shows:

01:22

# **CONTACT LIST**

When the radio is in the IDLE state or during a call, the contact list may be used to give access to up to 255 preprogrammed numbers accessed via the menu.

Depending on the way your radio is programmed, the radio will display either the alpha alias (name) or the number to be dialled.

There are two ways to enter the Contact List:

#### Method 2

#### Method 1

Press the Contact List direct access button, if programmed by your dealer.

#### Method 2

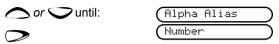
- 1 vo enter Menu Mode.
- 2 or until:
- 3 v to select

Once in the Contact List, there are two ways to choose the desired address:

Contact List

#### Method 1

Turn the rotary knob (1) clockwise or counterclockwise until you reach the desired address indicated on the display.



Once the desired address is displayed, there are two methods to select the address:

#### Method 1

to confirm your selection.

Display shows: (for 2 seconds)

Selected

#### Method 2

Press the PTT button *or* Call 1-4 to select address and make the call.
Call 1-4 are preprogrammed call buttons.

**Note:** During a call you may enter the contact list as described above and make another call to a third party, or initiate a new call. In either case the call may be a voice or status call.

#### Missed Calls

If a call remains unanswered, the call will be stored by the radio, provided that Missed Calls has been programmed into your radio.

Up to ten calls can be stored. If the same radio calls more than once, only the most recent call is stored. When ten calls have been stored by the radio, depending on the radio programming, the eleventh call received may overwrite the first or not be stored by the radio.

When a new call has been stored by the radio, the Missed Call icon \( \bigcup \) will flash and the display will show the alias (name) or number (address) of the last calling radio e.g:

234

When the Missed Calls list has been read and any missed calls retained, the Missed Call icon will be illuminated.

The Missed Call List can be entered directly by pressing the Missed Call button (if programmed) when the radio is in the IDLE STATE or via the menu.

If using the Missed Call button, follow the procedures from step 3 below.

To view the calls in the list via the menu:

- 1 v to enter Menu Mode.
- 2 Display shows:

Missed Calls

- 3 of to select
- 4 or to scroll list:

Addr: Alias

Note: In the Missed Calls list some alpha alias/ numbers may contain a suffix S, which indicates a status message associated with the call.

# Example:

1 Display shows

Reception

If the displays shows S there is a status message associated with the call.

S

Displays message e.g.

On Break

Displays status number e.g.

Status 04

Display shows

Reception S

You can call back to any number in the Missed Call list by:

1 or until desired number is displayed:

Addr: Alias

- **2** PTT button *or* to make the call.
- 3 After the call is set-up, press PTT button and talk with your mouth 2.5-5 cm from microphone. Release PTT to listen.
- 4 The call will terminate automatically when the conversation has ended or press the Monitor/Cancel button.

On a successful call set- up, the entry is automatically deleted from the stack together with any associated status message.

Unanswered calls may be deleted from the Missed Call list at any time by :

- 1 vo enter Menu Mode.
- 2 Display shows:

Missed Calls

- 3 v to select
- 4 or to select entry in list:

Addr: Alias

- **5 x** to request deletion.
- 6 Display shows:

Delete? ✔/★

- 7 v to confirm deletion.
- 8 Display shows momentarily, then returns to the Missed Calls list:

Deleted

Addr: Alias

On deletion of the last message in the Missed Calls list, the radio will exit the menu and return to the IDLE STATE.

To exit the Missed Call List:

1 (x) x to exit Missed Call List.

Display shows e.g.: (

Ready

**Note:** The calls in the list are not deleted when the radio is turned off.

#### **Status Calls**

A status is a code for transmitting prearranged messages, e.g. status "05" may indicate "Return to Base". The prearranged messages and associated code digits are contained in a Status List which contains up to 255 entries. This list is used for both incoming calls, when the status of the calling radio is displayed, and outgoing calls, when your status is sent either to a requesting radio or to other radios.

# Making a Status Call

When the radio is in the IDLE state or during a call, the status list may be used to select a status message to reply to a calling radio or send your status to another radio.

There are two ways to enter the Status List:

#### Method 1

Press the Status List direct access button, if programmed by your dealer.

#### Method 2

- 1 vo enter Menu Mode.
- 2 or Ountil:

Status

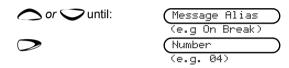
3 v to select

Once in the Status List, there are two ways to choose the desired status:

#### Method 1

Turn the rotary knob (1) clockwise or counterclockwise until you reach the desired status indicated on the display.

#### Method 2



Once the desired status is displayed, there are two methods to select the status:

#### Method 1

to confirm your selection.

Display shows: (for 2 seconds)

Selected

#### Method 2

Press the PTT button *or* Call 1-4 to select and make the call. Call 1-4 are preprogrammed call buttons.

Note: During a call you may enter the status list as described above and make another status call to a third party or initiate a new status call.

To send status message to another radio, select radio Alias/ID from Contact List via menu and send as detailed.

# Receiving a Status Call

Your radio receives a Status Call when:

- Individual Call alert sounds
- 2 Display shows:

(Stat: On Break or (Stat: 04

alternating with

(Alias/Number

Where Status message "04" / "On Break" is example status message. Note that status number (04) only will be displayed if associated message is not programmed into your radio.

RADIO CALLS

Alias/Number is the name or number of the calling radio.

#### **EMERGENCY CALL**

Your radio can be programmed to give you a one-button quick access to call a particular radio or centre (predefined by your dealer) in emergency situations. This is the *Emergency Call*.

When you make an Emergency call, your radio goes into an Emergency state, which can be programmed to:

- · continually receive speech,
- · the radio can receive and transmit.

- **1.** Press the **Emergency** button to initiate an Emergency call.
- 2. Emergency can be stopped by:
  - •Switching the radio Off and On again.
  - •A **reset** message is received by your radio.
  - •The emergency time duration is reached.

**Note:** The emergency time duration and reset message are programmed into your radio by your dealer.

Should you receive an Emergency call the
incoming emergency alert tone
will sound.

# **UTILITIES**

The utilities described below are programmed into your radio by your dealer and are accessible either via a programmable button or via the menu.

#### **SCAN**

You can monitor several channels in order to receive any call that is transmitted on any of these channels. Sixteen different channels can be programmed into each scan list. Each channel can share the same scan list or have different scan lists assigned to them.

Once the radio's scan operation is activated and the radio detects a call coming through a channel in its scan list, it switches to that channel for you to receive the call.

#### STARTING OR STOPPING SCAN

You can start or stop a scan operation by using a preprogrammed **Scan** button or via the menu, either when the radio is in the IDLE STATE or when in a call.

# **Using the Scan Button**

- 2. Press the Scan button again to stop scanning. The scan stop alert tone

  will sound and the display icon is extinguished.

# **Using the Menu**

- 1 Ensure radio is in IDLE STATE, or in a call.
- 2 v to enter Menu Mode.
- 3 or Utilities Utilities
- 4 v to select
- 5 or Until: Scan
- 6 v to select

8

Display shows

to select

current status e.g. :

Off

7 or until: On

Display shows: Selected (for 2 seconds)

**9** Radio exits menu mode and display shows e.g.:

(Chan: 05

The scan start alert tone will sound, the display icon will be lit and the LED indicator will blink green during a scan operation. When a call on a channel is detected the LED will stop blinking and the channel number will be displayed.

#### **PRIORITY CHANNEL**

A scan list may contain a priority channel. This means that a particular channel (for example, a commonly used channel) may be checked more frequently than other channels in the list during a scan operation. Priority channels are programmed into your radio scan lists by your dealer, however when a priority channel is included in a scan list, the scan icon changes from  $\mathbb{Z}$  to  $\mathbb{Z}_{\bullet}$ .

#### **TALKBACK**

If the programmable Talkback option is set, you can respond to any calls received during the scan operation by pressing the PTT button before the programmed hang-time ends. Check with your dealer for details.

#### **DELETING A NUISANCE CHANNEL**

If a channel continually generates unwanted calls/ noise (a "nuisance" channel), you can temporarily remove it from the scan list by performing a *Nuisance Channel Delete* operation:

- While the radio is on the Nuisance Channel, press and hold the Nuisance Delete button until you hear the scan start alert tone.
- Release the Nuisance Delete button.

**Note:** You cannot perform a Nuisance Channel Delete on a priority channel or if there is only one remaining channel in the scan list.

# ADDING A DELETED NUISANCE CHANNEL BACK INTO THE SCAN LIST USING THE SCAN BUTTON

- Press the Scan button to stop scanning. The scan stop alert tone will sound.
- 2. Press the **Scan** button again to re-start scanning. The scan start alert tone will sound, and the scan list will contain all programmed channels.

# **Using the Menu**

- Follow the instructions for selecting Scan On/Off via the menu
- Select Scan Off. Your radio will stop scanning, the scan stop alert tone will sound, the display icon and the LED indicator will be extinguished.
- Select Scan On. Your radio will re-start scanning, the scan start alert tone will sound, the display icon will be lit, the LED indicator will blink green and the scan list will contain all programmed channels.

#### **CALL FORWARD**

You can call forward calls to your radio to another radio if you are unable to take calls or are away from your radio.

You can switch **On** or **Off** Call Forward by using a preprogrammed **Call Forward** button or via the menu.

# **Using the Call Forward Button**

 Press the Call Forward button to switch on Call Forward, when the feature enable alert will sound and the display will show:

Forwarded On

2. Press the Call Forward button again to switch off Call Forward when the feature disable alert will sound and the display will show:

Forwarded Off

## **Using the Menu**

- Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.
- 3 or until: Utilities
- 4 oto select
- 5 or until: Call Forward
- 6 v to select

Display shows Off

- 7 or Until: On
- 8 v to select

Display shows: Selected (for 2 seconds)

**9** Radio exits menu and returns to IDLE STATE.

#### **TALKAROUND**

In your communications network, you may be using a system to cover a larger area than is possible with your radio. However, you can communicate with another radio within your radio's range without going through the system by using the Talkaround feature. This is especially useful when the system is down.

You can switch **On** or **Off** Talkaround by using a preprogrammed **Talkaround** button or via the menu.

## **Using the Talkaround Button**

 Press the Talkaround button to switch on Talkaround when the feature enable alert will sound, the display icon |→| is lit and the display will show:

Talkaround On

 Press the Talkaround button again to switch off Talkaround when the feature disable alert will sound, the display icon |→| is extinguished and the display will show:

Talkaround Off

# Using the Menu

- 1 Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.
- 3 or until:

Utilities

- 4 v to select
- 5 or until:
- Talkaround

6 oto select

Display shows current status e.g.:

Off

- 7  $\bigcirc$  or  $\bigcirc$  until: (
  - (On
- 8 v to select

Display shows: (for 2 seconds)

Selected

9 Radio exits menu mode and display shows e.g.:

Chan: 05

#### **WHISPER**

Whisper allows you to talk quietly into the radio microphone when making a call, by increasing the gain of the radio microphone.

You can switch **On** or **Off** Whisper by using a preprogrammed **Whisper** button or via the menu.

# **Using the Whisper Button**

1. Press the **Whisper** button to switch Whisper **on**, when the feature enable alert will sound and the display will show:

Whisper On

2. Press the Whisper button again to switch Whisper off, when the feature disable alert will sound and the display will show:

Whisper Off

# Using the Menu

- 1 Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.

current status e.g.:

- 3 or until: Utilities
- 4 oto select
- 5 or until: Whisper
- 6 v to select
  Display shows
- 7 or until: On
- 8 v to select
  - Display shows: Selected (for 2 seconds)
- 9 Radio exits menu mode and display shows e.g.: Chan: Ø5

#### **LONE WORKER**

The Lone Worker feature enables you to work alone with added safety.

You can switch **On** or **Off** Lone Worker by using a preprogrammed **Lone Worker** button or via the menu.

# **Using the Lone Worker Button**

 Press the Lone Worker button to switch Lone Worker on, when the feature enable alert will sound and the display will show:

- You will be reminded at intervals that Lone Worker is switched on by a high pitched alert tone (Lone Worker Reminder) being sounded.
- Press any button to respond and cancel the alert, if you do not the radio will enter the Emergency state.

2. Press the Lone Worker button again to switch Lone Worker off, when the feature disable alert will sound and the display will show:



**3.** You may also switch off Lone Worker by changing the channel or switching radio **off** and **on** again.

# **Using the Menu**

- 1 Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.
- 3 or Utilities
- 4 oto select
- 5 or Until: Lone Worker
- 6 oto select

Display shows Off current status e.g.:

- 7 or until: On
- 8 v to select

Display shows: (for 2 seconds)

Selected

9 Radio exits menu mode and display shows e.g.:

Chan: 05

#### **POWER LEVEL**

You can transmit your calls at different transmit power levels. A higher level means you can reach a radio that is farther away. A lower power level conserves battery power. Use the high power setting only when necessary, to conserve battery life.

You can switch between **high** and **low** power levels by using a preprogrammed **Power Level** button or via the menu.

# **Using the Power Level Button**

 Press the Power Level button to switch to high power when the feature enable alert will sound, the display icon H is lit and the display will show:

(High Power

2. Press the Power Level button again to switch to low power when the feature disable alert will sound, the display icon L is lit and the display will show:

(Low Power

# Using the Menu

- Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.
- 3 or Until: Ut.

(Utilities

- 4 oto select
- 5 or until: Power Level
- 6 v to select

Display shows current status e.g.:

Low

- 7  $\bigcirc$  or  $\bigcirc$  until:
  - (High
- 8 v to select

Display shows: (for 2 seconds)

Selected

9 Radio exits menu mode and display shows e.q.:

Chan: 05

#### COMPANDING

Companding is a collective term to define **comp**ressing the audio signal on transmission and exp**anding** the audio signal on reception. The overall effect is to reduce noise in the received signal, giving you crisper, clearer audio clarity. Companding should only be used when other radios in your system have the same companding feature available.

You can switch **On** or **Off** Companding by using a preprogrammed **Companding** button or via the menu.

# **Using the Companding Button**

1. Press the **Companding** button to switch Companding **on**, when the feature enable alert will sound, the display icon **(i)** is lit and the display will show:

Companding On

2. Press the Companding button again to switch Companding off, when the feature disable alert will sound, the display icon i extinguished and the display will show:

Companding Off

# Using the Menu

- 1 Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.
- 3 or until: Utilities
- 4 v to select
- 5 or until: Companding
- 6 v to select

Display shows current status e.g. :

7 or until: On

Off

8 v to select

Display shows: (for 2 seconds)

(Selected

9 Radio exits menu mode and display shows e.g.:

Chan: 05

#### **BACKLIGHT**

Backlight illuminates the radio display and menu navigation keys.

Your radio can be programmed to have the backlight permanently on, permanently off or a timed period, when any new information being displayed, causes the backlight to remain on for 10 seconds.

You can switch **On** or **Off** the Backlight by using a preprogrammed **Backlight** button or via the menu.

# **Using the Backlight Button**

 Press the **Backlight** button to switch Backlight **on**, when the feature enable alert will sound and the display will show:

**⊘**Backlight Tmd

Backlight On

2. Press the Backlight button again to switch Backlight off, when the feature disable alert will sound and the display will show:

Backlight Off

# Using the Menu

- 1 Ensure radio is in IDLE STATE.
- 2 v to enter Menu Mode.

or Until:

3

(Utilities

- 4 v to select
- 5 or Until: Backlight
- 6 v to select

Display shows current status e.g.:

Off

7 or Ountil:

On or

Timed

8 v to select e.g.:

Timed

Display shows: (for 2 seconds)

Selected

9 Radio exits menu mode and display shows e.g.:

Chan: 05

# **VOICE OPERATED TRANSMIT (VOX)**

When the VOX headset/microphone is connected, your radio may be used with handsfree operation.

The VOX feature intelligently senses background noise, so that it adapts automatically to the noise level in the environment in which you are working.

To start the VOX feature:

- Connect the VOX headset onto the accessory connector of the radio.
- 2. Switch On the radio.

You can disable the VOX feature by pressing the PTT button on the radio. This allows you to use the VOX headset but you must press the radio PTT to transmit.

To re-enable the VOX feature:

- Switch the radio Off and On again with the headset connected to the accessory connector or,
- Change channel with the VOX headset connected.

#### STUN/UNSTUN

For added security and to avoid abuse of the radio system in which you operate, a feature known as **Stun/Unstun** is included in your radio.

This feature can only be activated by your system manager or administrator.

For example, if your radio is stolen and is being used illegally, your system administrator can send a signal which will **stun** the radio making it incapable of being used. This feature is also useful if the system is being abused by a user who is not complying with the correct communications protocol.

The radio can only be unstunned, i.e. returned to operational use, by an **unstun** signal sent from the system administrator or returning the radio for reprogramming.

# RADIO INFORMATION

To enable you and your dealer/system administrator to establish, quickly, the software and radio parameters programmed into your radio, a feature known as Radio Information can be accessed via the menu.

On selection of **Radio Information**, your radio display will indicate:

- Software (SW) version
- Codeplug (CP) version
- Software (SW) part number
- Codeplug (CP) part number

#### To access Radio Information

- 1 Ensure radio is in IDLE STATE.
- 2 to enter Menu Mode.
- or Until:
  - Radio Info
- 4 to select

3

5 or Until:

SW Version or CP Version or SW Part No

CP Part No

6 to select e.g.: SW Version

Display shows e.g.:

D02.00.01

7 x to return to

SW Version previous menu level:

8  $\frown$  or  $\bigcirc$  for further selections following steps 6 and 7:

SW Version or CP Version or

SW Part No or

CP Part No

 $(\mathbf{x})$   $(\mathbf{x})$  to exit 9 menu mode, display shows e.g.:

Chan: 05

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