



COMMERCIAL

CP40 & CP50 Series

Commercial Analogue Portable Radios



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INTRODUCTION

The CP40 and CP50 has been designed and made in Australia by GME Pty Ltd specifically to meet the requirements of commercial radio users.

Please read this user manual thoroughly. It provides information on the features, parts, controls and specifications of the radio.

IN THE BOX

CP40 & CP50 Series

BP028	2600mAh Li-Ion Battery to suit CP40/ CP50
AE4028	450-520 Mhz Wide Band Antenna to suit CP40/ CP50
BCD022	240V Single Unit Desktop Charger to suit CP40/ CP50
PS005	AC Adapter for BCD022
MB058	Belt Clip to suit CP40/ CP50

KEY FEATURES

CP40 Series

- 119 Private Channels
- 80 UHF CB/ PRS Channels
- 10 Zones
- 5 Watt Transmission Power
- 1.5W Audio Output (internal)
- 750mW Audio Output Aux Port (external)
- 450-520 Mhz
- IP67 Ingress Protection
- MIL-STD 810G
- 5 Tone Selcall
- MDC1200 Compatible
- DTMF

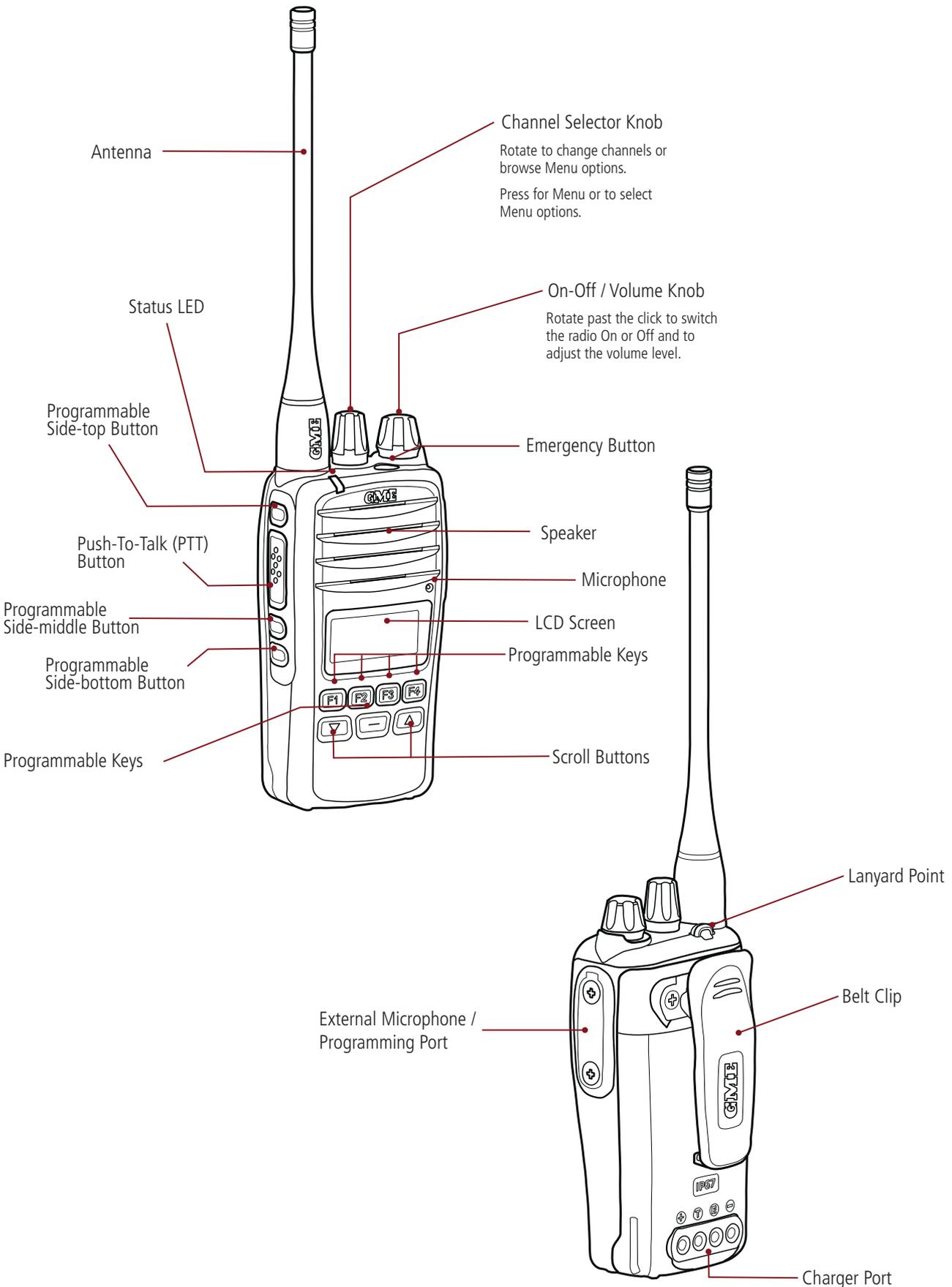
CP50 Series

- 2047 Channel Capacity
- 80 UHF CB/PRS Capable
- 50 Zones
- 5 Watt Transmission Power
- 1.5W Audio Output (internal)
- 750mW Audio Output Aux Port (external)
- 450-520 MHz
- IP67 Ingress Protection
- MIL-STD 810G
- 5 Tone Selcall
- MDC1200 Compatible
- DTMF
- RSSI and Busy Voting
- Man Down
- Lone Worker

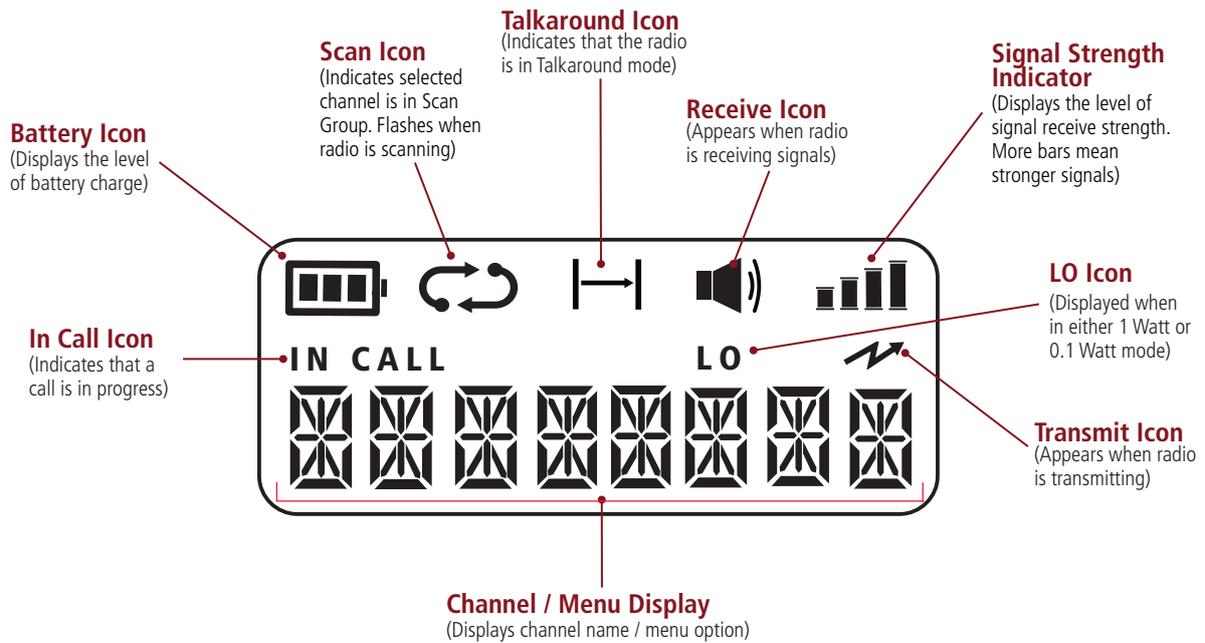
CONTROLS

The instructions below describe the locations and generic functions of the controls on the handheld radio. Each of these controls have been configured by your dealer for your application.

If required, please refer to your dealer for more detailed operating instructions relating to the specific programming of your radio.



DISPLAY



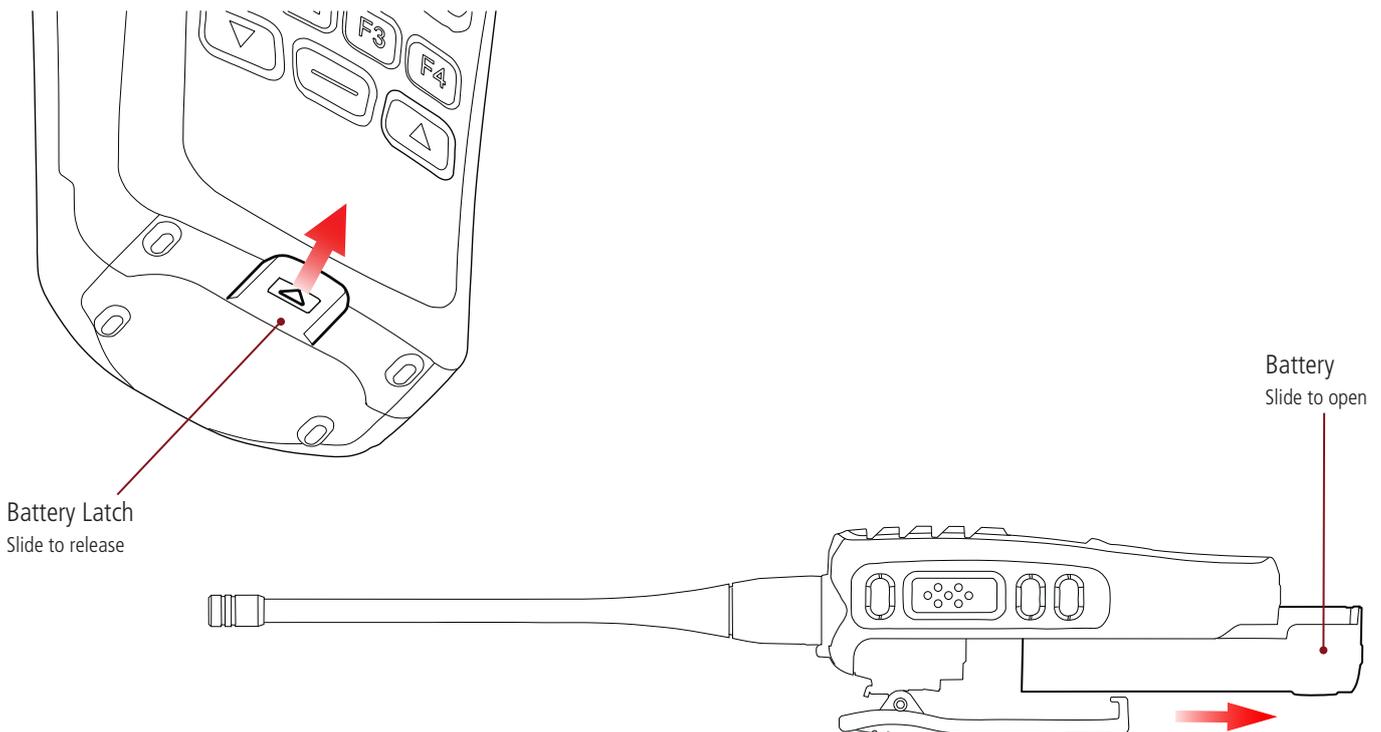
CHARGING THE BATTERY

Removing the Battery

1. Locate the battery latch on the base of the radio.
2. Pull the battery latch forward while sliding the battery downwards from the radio. Once the battery has been released, lift it away from the radio.

Fitting the Battery

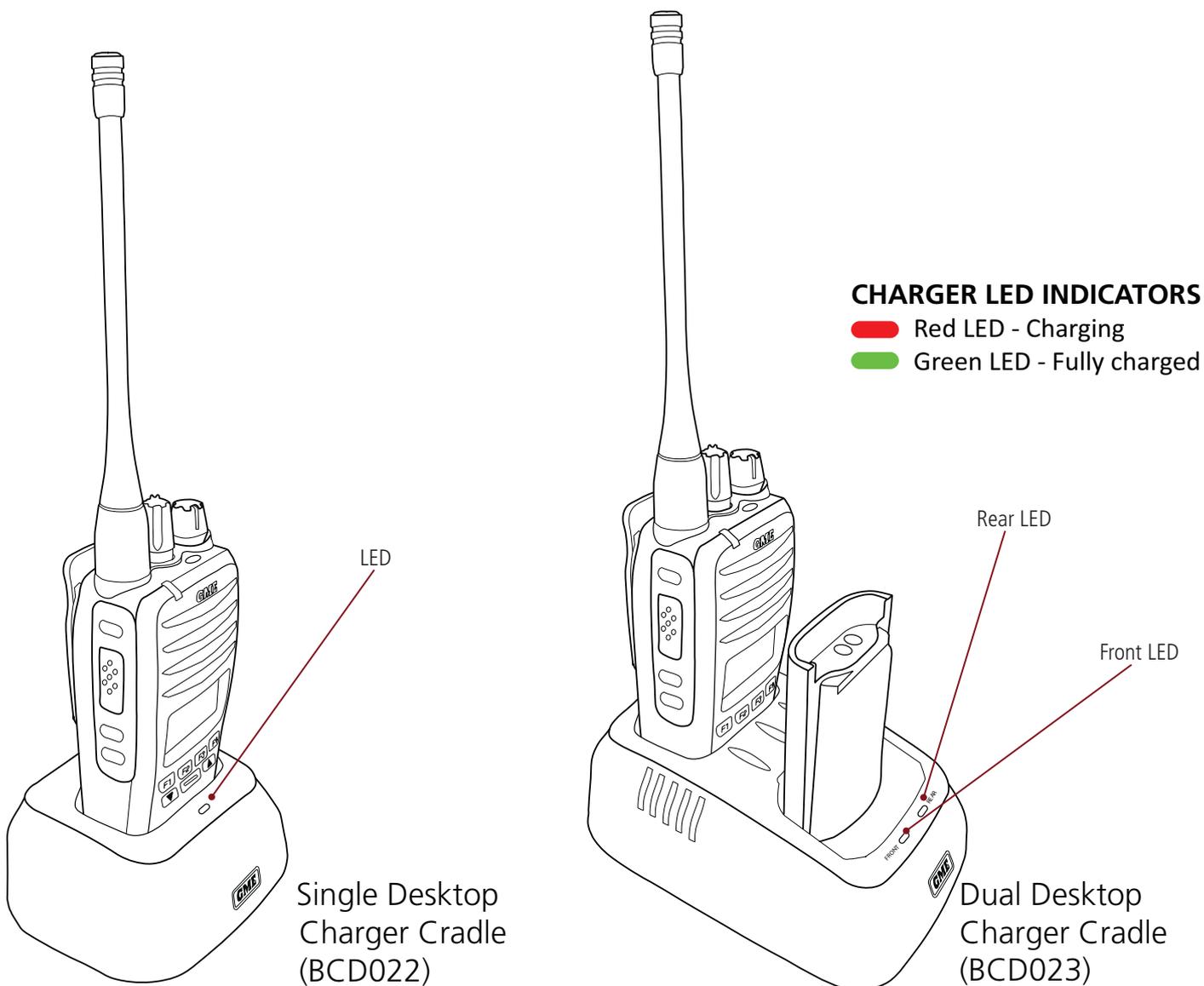
1. Align the slots in the battery pack with the metal tabs on the radio chassis.
2. With the battery pressed against the radio, slide it upwards until it 'clicks'.



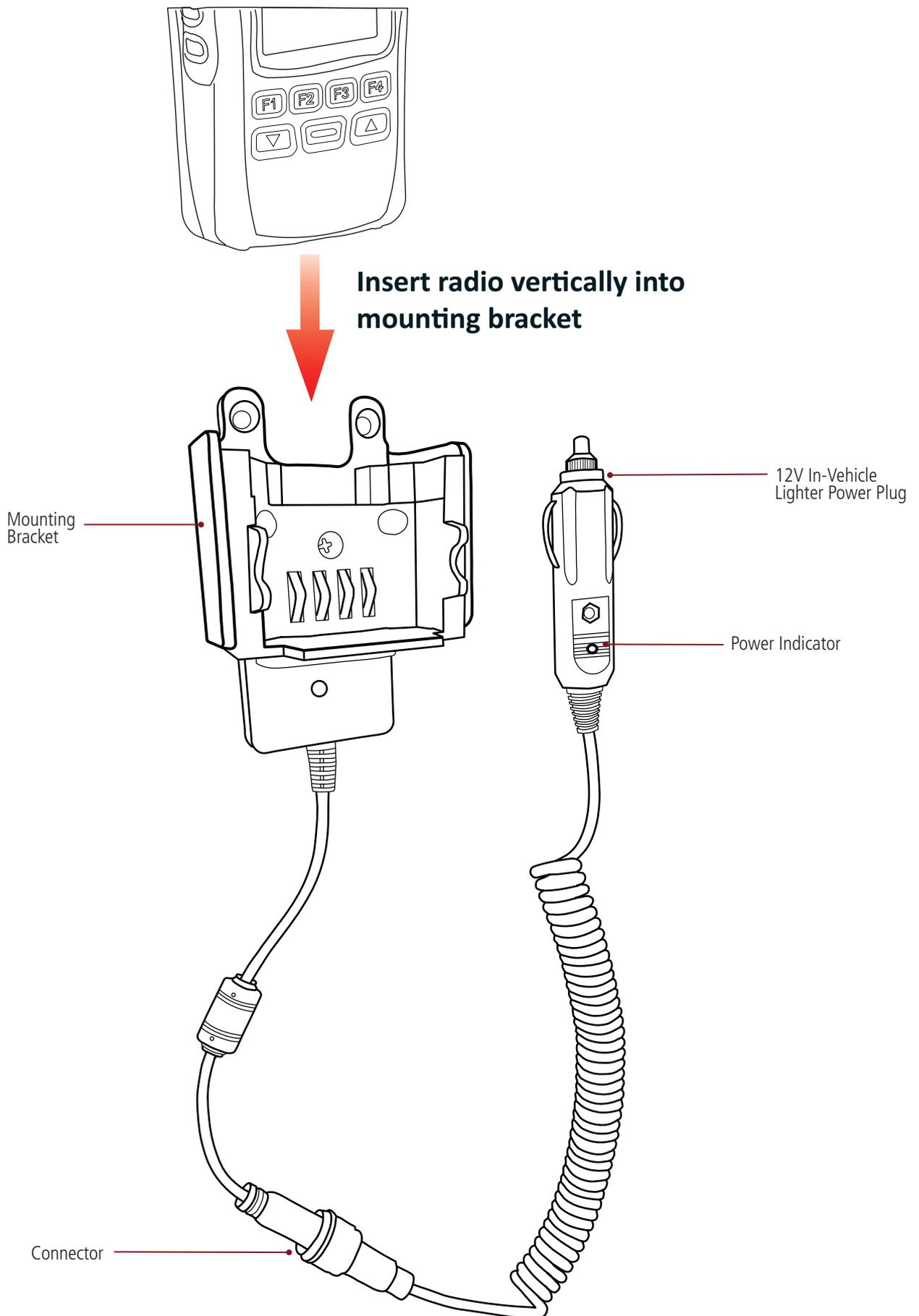
Charging the Battery

The desktop charger is designed to charge the battery while it is attached to the radio. Alternatively, the battery can be removed and charged separately. When charging the battery separately, slide the battery into the slot at the rear of the desktop charger compartment. While the battery is charging, the indicator LED is red. The LED turns Green once the battery is charged.

Using the Desktop Charger



In-Vehicle Charging



Please refer to the diagrams on the 'Controls' page for a general description of the controls and keys.

TURNING THE RADIO ON / OFF & VOLUME:

Rotate the **Volume** knob clockwise past the 'click' to switch the radio on.

Continue to rotate the **Volume** knob clockwise to increase the volume.

Rotate the **Volume** knob counter-clockwise to decrease the volume.

Continue to rotate the **Volume** knob counter-clockwise past the 'click' to switch the radio off.

NOTE: *If there are no signals available when adjusting the volume, setting the volume knob to the 10 o'clock position will ensure sufficient volume to hear incoming signals when they occur.*

SELECTING CHANNELS:

To select a channel, rotate the **Channel Knob** or press  or .

If your radio has only one channel, an alert beep will be heard when you try to select another channel.

NOTE: *Your dealer can program your radio to save individual channels to programmable keys for quick selection. Please refer to your dealer.*

TRANSMITTING:

Before transmitting, check if the channel is already in use. If the channel is busy, wait until it is clear before transmitting.

1. Press and hold the **Push-to-Talk (PTT)** key. Hold the radio 3-5 cms from your mouth and speak into the microphone at a normal voice level.
2. Release the **PTT** key when you have finished talking.

When transmitting, the status LED is Red and the  icon appears on the LCD.

RECEIVING:

When receiving a signal, the busy icon  will appear, the signal meter  will show the relative strength of the incoming signal (more bars indicates a stronger signal) and the status LED will be Green. During this time the signal will be heard in the speaker.

If your radio is programmed to accept subtones on the selected channel and the incoming signal's subtone doesn't match yours, the busy icon  and the signal meter  will still appear on the display but the status LED will not light and the speaker will remain quiet. This indicates the call was not meant for you.

CP40 & CP50 FEATURES

The CP40 & CP50 radios have a large range of customizable features and settings. Your dealer will have preprogrammed the required features into your radio and can provide with you with details on how to access them.

PROGRAMMED SHORTCUT KEYS:

There are **9** programmable shortcut keys on the CP50 radio.

These are the **F1, F2, F3, F4** and — keys on the front panel, the Top, Middle and Bottom keys on the left side adjacent to the **PTT** switch and the red Emergency key on the top panel.

Please refer to the 'Controls' diagram on the page 4 to confirm the location of these keys.

Your dealer may have configured one or more of these keys for quick access to specific channels, radio functions or menu options. Each key can hold up to two separate functions. If available, use a short press to access the first function and a long press to access the second. Some key presses may activate the selected function immediately while others may provide a list of options that can be selected using the **Channel Knob** or the **▼ ▲** keys.

Please refer to your dealer for details on how the programmable keys on your radio have been configured.

MENU KEY:

Your radio may be programmed with a designated **Menu** key.

Your dealer will indicate if the Menu is available in your radio.

In this case, selected functions may be accessible through the Menu by pressing either the programmed **Menu** key or the **Channel Knob**.

- To enter the main menu or select the displayed menu item:
 - ◇ Press the **Channel Knob** or the programmed **Menu** key.
- To scroll through the menu options:
 - ◇ Rotate the **Channel Knob** or press **▼** or **▲** .
- To step back to the previous menu level:
 - ◇ Press and hold the **Channel Knob** or the programmed **Menu** key.

Zones

Zones are used to organise selected channels into groups. The CP40 supports up to 10 zones while the CP50 supports up to 127 zones, each containing a different combination of channels. Each zone can be programmed with a unique identifying label.

Zones can be selected either from a preprogrammed **Zone** key or from the **ZONE** option via the programmed **Menu** key (whichever is available).

TO SELECT A ZONE:

From a preprogrammed **Zone** shortcut key:

1. Press the preprogrammed **Zone** shortcut Key. The current Zone is displayed.
2. Rotate the **Channel** Knob or press **▼** or **▲** to select the desired zone.

When the desired zone is displayed, wait up to 25 seconds for the radio to return to normal operation.

From the programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel** Knob or press **▼** or **▲** to select **ZONE** then press the programmed **Menu** key.
3. Rotate the **Channel** Knob or press **▼** or **▲** to select the desired Zone then press the programmed **Menu** key.
4. The radio returns to normal operation.

You can now rotate the **Channel** Knob or press the **▼** or **▲** keys to select channels.

Backlight

The Backlight illuminates the LCD for viewing under low light conditions.

The backlight has three settings: **ON** | **OFF** | **TIMER**. Select **ON** to switch the backlight On or select **OFF** to switch it Off. Select **TIMER** and the backlight will switch on when a key is pressed but will automatically switch off again after 5 seconds.



You can select the Backlight setting either from a preprogrammed **Backlight** key or **Backlight Menu** key or via the **BACKLIGHT** option on the programmed **Menu** key (whichever is available).

From a preprogrammed **Backlight** shortcut key:

1. Press the programmed **Backlight** shortcut key to select a backlight setting. Each press will cycle to the next setting. Shortly after the desired setting is displayed, the radio will return to normal operation.

From a preprogrammed **Backlight MENU** shortcut key:

1. Press the programmed **Shortcut** key. The current backlight setting will be displayed.
2. Rotate the **Channel Knob** or press the **▼** or **▲** keys to cycle through the backlight settings.
3. When the desired Backlight setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

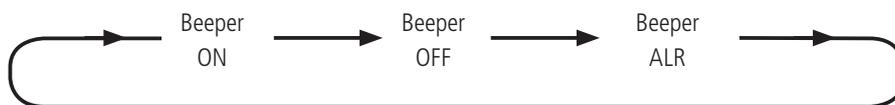
From the programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press the **▼** or **▲** to select **SETTINGS** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press the **▼** or **▲** to select **BACKLIGHT** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press the **▼** or **▲** keys to cycle through the backlight settings.
5. When the desired Backlight setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

Beeper

The beeper provides audible beeps to alert you to various actions within the radio.

The Beeper has three settings. Select **ON** to enable beeps for key presses and alerts. Select **ALERTS** to enable beeps only for alerts. Select **OFF** to disable all beeps.



TO ACTIVATE THE BEEPER:

From a preprogrammed **Beeper** shortcut key:

1. Press the preprogrammed **Beeper** shortcut key repeatedly to cycle through the Beeper settings. When the desired Beeper setting is displayed, wait a few seconds and the radio will return to normal operation.

From a preprogrammed **Beeper Menu** shortcut key:

1. Press the preprogrammed **Beeper Menu** shortcut key. The current Beeper setting will be displayed.
2. Rotate the **Channel Knob** or press the keys **▼** or **▲** to cycle through the Beeper settings.
3. When the desired Beeper setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

From the programmed **Menu** key:

1. Press the **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SETTINGS** then press the **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **BEEPER** then press the **Menu** key.
4. Rotate the **Channel Knob** or press the keys **▼** or **▲** to cycle through the Beeper settings.
5. When the desired Beeper setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

NOTE: If Channel Announce is also enabled, channel announcements will take priority over the Beeper when selecting channels.

Squelch

The Squelch is used to eliminate the annoying background noise when there are no signals present. The radio features a preset squelch system which can be switched ON or OFF from the Menu. When the squelch is OFF, the receiver's background noise can be heard when there are no signals present (unless Quiet is enabled). When the squelch is ON, the receiver will remain quiet while there are no signals, but an incoming signal will overcome the squelch and be heard in the speaker.

TO OPEN OR CLOSE THE SQUELCH:

From a preprogrammed **Squelch** shortcut key:

Press the preprogrammed **Squelch** shortcut key repeatedly to toggle SQL OPEN or SQL CLS. When the desired setting is displayed, wait a few seconds for the radio to return to normal operation.

From a preprogrammed **Squelch Menu** shortcut key:

1. Press the preprogrammed **Squelch Menu** shortcut key. The current Squelch setting will be displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** keys to toggle SQL OPEN or SQL CLS. When the desired setting is displayed, wait a few seconds for the radio to return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select SQUELCH then press the **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select SQL OPEN or SQL CLS. When the desired setting is displayed, wait a few seconds for the radio to return to normal operation.

When the squelch is open the  icon is displayed, the status LED is green and you will hear the receiver's background noise.

When the squelch is closed the  icon disappears, the status LED is Off and radio remains quiet when there are no signals.

Squelch Level

The squelch level determines the sensitivity of the squelch to incoming radio signals. If the squelch level is set too high, incoming signals may become broken or 'chopped' by the squelch action. If the level is too low the squelch may be opened unnecessarily by noise or unwanted signals.

To set the squelch level

From a preprogrammed **Squelch Level** shortcut key:

1. Press the programmed **Squelch Level** shortcut key. The current Squelch level is displayed.
2. Rotate the **Channel Knob** or **▼** or **▲** to adjust the squelch level from 1 (minimum) to 9 (maximum). When the desired setting is displayed, press the programmed **Menu** key. The radio will return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or **▼** or **▲** to select SQL LVL then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or **▼** or **▲** to adjust the squelch level from 1 (minimum) to 9 (maximum). When the desired setting is displayed, press the programmed **Menu** key. The radio will return to normal operation.

NOTE: The squelch adjustment is live, so if you are experiencing interference, simply adjust the level until the squelch remains closed to the interference.

TX Power

The TX Power setting allows you to change the power level of the transmitter.

The radio has three power level settings: 100mW, 1W and 5W. Each selection of the TX Power setting will automatically cycle the TX power to the next setting.



TO SET THE POWER LEVEL:

From a preprogrammed **TX Power** shortcut key:

1. Press the preprogrammed **TX Power** shortcut key repeatedly to cycle through the TX Power settings. Each press will display 100MW, 1W or 5W.

After a few seconds the radio will return to normal operation.

From a preprogrammed **TX Power Menu** shortcut key:

1. Press the preprogrammed **TX Power Menu** shortcut key. The current TX Power setting will be displayed.
2. Rotate the **Channel Knob** keys to **▼** or **▲** cycle through 100MW, 1W or 5W.

When the desired setting is displayed, wait a few seconds for the radio to return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SETTINGS** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **TX POWER** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** keys or press **▼** or **▲** to cycle through 100MW, 1W or 5W.

After a few seconds the radio will return to normal operation.

NOTE: When the **100mW** and **1W** settings are selected, **LO** is displayed to indicate a Low Power mode is selected. When **5W** is selected, **LO** disappears from the display to indicate High Power.

Keylock

The Keylock feature disables the keys to prevent accidental key presses from changing the radio's settings. When the keys are locked, all controls are disabled except the **PTT**, the **Volume** control and the designated **Keylock** key.

There is no 'Keylock' icon displayed when keylock is active, however rotating the **Channel Knob** or pressing **▼** or **▲** keys will display **PRESS 'XX' TO UNLOCK** where 'XX' is the designated Keylock key.

Key presses to all remaining preprogrammed keys will be ignored.

The Keylock feature is accessible using a preprogrammed shortcut key.

TO ACTIVATE KEYLOCK:

Press the preprogrammed **Keylock** shortcut key. **PRESS 'XX' TO UNLOCK** is displayed where 'XX' is the designated Keylock key. The keys are now locked.

TO DEACTIVATE KEYLOCK:

Press the preprogrammed **Keylock** shortcut key. **UNLOCKED** is displayed.

Recall Channel

To recall a preselected channel assigned to a preprogrammed key

1. Press the preprogrammed **Recall Channel** shortcut key. The radio immediately switches to the preselected channel. If Channel Announce is active the new channel number will be announced.

Channel Announce

Channel Announce provides audible voice announcements when changing channels. Channel Announce has two settings: ON or OFF. When Channel Announce is set to ON, the channel number will be announced whenever a channel is selected or when switching Zones. If the Beeper is switched On, Channel Announcements will take priority over the Beeper.

TO ACTIVATE CHANNEL ANNOUNCEMENTS:

From a preprogrammed **CH Announce shortcut** key

Press the preprogrammed **CH Announce** shortcut key repeatedly to cycle between **ANN ON** and **ANN OFF**. When the desired Channel Announce setting is displayed, wait a few seconds and the radio will return to normal operation.

From a preprogrammed **CH Announce Menu** shortcut key:

1. Press the preprogrammed **CH Announce Menu** shortcut key. The current CH Announce setting will be displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** to cycle between **ANN ON** and **ANN OFF**.
3. When the desired **CH Announce** setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

When the desired CH Announce setting is displayed, wait a few seconds and the radio will return to normal operation.

From a programmed **Menu** key:

1. Press programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SETTINGS** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **ANNOUNCE** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to cycle between **ANN ON** and **ANN OFF**.
5. When the desired **CH Announce** setting is displayed, briefly press the programmed **Menu** key. The radio will return to normal operation.

Talk Around

Talk Around allows you to communicate directly with a nearby radio if the local repeater is out of range or is not working. When enabled, the radio transmits and receives on the configured receive frequency, effectively bypassing the repeater. The radio you are talking to will also need to select Talk Around and be within direct communication range of your radio.

When Talk Around is switched ON the icon  is displayed.

When Talk Around is switched OFF the icon  disappears.

TO ENABLE TALK AROUND:

From a preprogrammed **Talk Around** shortcut key:

1. Press the preprogrammed **Talk Around** shortcut key repeatedly to cycle the Talk Around setting ON or OFF.

From a preprogrammed **Talk Around MENU** shortcut key:

1. Press the preprogrammed **Talk Around Menu** shortcut key. The current Talk Around setting will be displayed.
2. Rotate the **Channel knob** or press the keys to cycle the Talk Around setting ON or OFF.
3. Press the programmed **Menu** key to return to normal operation.

From the programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press  or  to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press  or  to select TALK AROUND then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press  or  to select TA ON or TA OFF then press the **Menu** key.

NOTE: Talk Around can only be selected on channels that have been programmed to allow Talk Around.

Scan

Use Scan to quickly scan through a number of selected channels while searching for signals. If a signal is found, the radio pauses on that channel to allow the signal to be heard. When the signal has gone, the radio resumes scanning for further signals.

To activate the Scan press the programmed **Scan** shortcut key. The scan icon  will flash on the display and the channel ID will change rapidly as the channels are scanned.

If a signal is received the scan will pause on the busy channel to allow the signal to be heard.

The following additional preprogrammed shortcut key options may be enabled on your radio:

Scan Hold: Press the preprogrammed **Scan Hold** key while paused on a busy channel to stay on that channel. Press the **Scan Hold** key again to resume scanning.

Scan Resume: Press the preprogrammed **Scan Resume** key to force the radio to resume scanning when paused on a busy channel and temporarily remove the busy channel from the scan for 30 seconds.

This function can also be duplicated by rotating the **Channel Knob** or pressing  or  while paused on a busy channel.

Scan Remove: Press the programmed **Scan Remove** key to force the radio to resume scanning when paused on a busy channel and remove the busy channel from the scan for the duration of the scan session. This is useful when constant interference on one or more Scan channels is disrupting the scan.

When the Scan is next restarted, any removed channels will be restored.

Scan Toggle: Adds or removes the selected channel from the scan memory.

While Scan is not active, select the desired channel by rotating the **Channel Knob** or pressing  or  then press the programmed **Scan Toggle** key. The radio will display **Channel Removed** or **Channel Added** to indicate the status of the channel in the Scan memory. Channels that are added will be scanned when Scan is activated.

Selcall

Selcall (Selective Calling) is a reliable signalling system that allows individual radios to be selectively called on a shared channel. If your radio receives a Selcall, it will beep to alert you to the call and will display **IN CALL** along with the caller's ID.

To send and receive a Selcall, each radio must be preprogrammed with its own unique radio ID.

TO SEND A SELCALL FROM A CONTACT LIST:

From a preprogrammed **Selcall Menu** shortcut Key:

1. Press the programmed **Selcall Menu** shortcut key. The Selcall contact list is displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list then press the programmed **Menu** key to send the call. Your radio displays **IN CALL** and the icon  appears as your radio transmits the Selcall. Your radio then listens for a response.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SELCALL** then press the **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided, then press the **Menu** key to send the call. Your radio displays **IN CALL** and the icon  appears as your radio transmits the Selcall. Your radio then listens for a response.

TO SEND A SELCALL TO A PREDEFINED CONTACT ON A PRESELECTED CHANNEL:

From a preprogrammed **Recall & Dial Selcall** key:

1. Press the preprogrammed **Recall & Dial Selcall** key. The radio switches to the preselected channel and Zone, then displays **IN CALL** and the icon  appears as your radio transmits the Selcall to the predefined contact. If Channel Announce is active, the preselected channel number will be announced. Your radio then listens for a response on the preselected channel.

If your Selcall is received successfully, you will receive an acknowledgment transmission from the other radio. **IN CALL** and the Ident of the other radio will then remain on the display.

To communicate with the other radio, press the **PTT** and talk in the usual way.

This will clear the **IN CALL** information from the display and restore the radio to normal operation.

NOTE: If you do not receive an acknowledge, the radio you are calling may be on a different channel or out of range.

RECEIVING A SELCALL:

When your radio receives a Selcall, it will beep to alert you to the call and **IN CALL** will be displayed along with the Ident of the caller. During this time your radio will quickly transmit an acknowledgment response back to the caller, causing the  icon to appear and red Status LED to light briefly.

If Quiet mode was enabled on your radio, it will be cancelled and you will be able to hear signals on the channel.

To respond to the call, press the **PTT** and talk in the usual way. This will cancel the beeps, clear the **IN CALL** information from the display and restore the radio to normal operation. After your communication is complete you may re-enable Quiet mode by pressing the Quiet Mode button.

Selcall Mode

The Selcall mode switches the Selcall contact list display between numeric and Alpha (text) mode. When Alpha mode is ON, Selcall contacts are identified by their text labels. When Alpha mode is OFF, Selcall contacts are identified by their numeric Selcall ID.

TO SWITCH THE SELCALL MODE:

From a preprogrammed **Selcall Mode** shortcut key:

1. Press the programmed **Selcall Mode** shortcut key. The current Selcall Mode is displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select between ALPHA ON and ALPHA OFF.

After a few seconds the radio will return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select SELCALL MODE then press the programmed **Menu** key. The current Selcall Mode is displayed.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select between ALPHA ON and ALPHA OFF.

After a few seconds the radio will return to normal operation.

Quiet

The Quiet feature prevents incoming signals from being heard through the speaker until you receive a Selcall. In this way, you can monitor a busy channel for Selcalls without being disturbed by unwanted signals.

NOTE: Quiet operation is only available on channels that have been programmed to allow it.

The Quiet feature has two settings - **Quiet Channel** and **Quiet Mode**.

QUIET CHANNEL:

Quiet Channel operates in conjunction with the Quiet Mode to let you control which channels will remain quiet when Quiet Mode is switched on.

Using the Quiet Channel setting, you can select individual channels for Quiet operation. Once you have selected your Quiet Channels, switching on Quiet Mode will cause these channels to remain quiet to all signals unless you receive a Selcall. All other channels will continue to remain open to incoming signals.

Switching Quiet Mode off will open all channels to incoming signals again.

To select channels for **Quiet Channel** Operation:

Rotate the **Channel Knob** or press **▼** or **▲** to select the desired channel.

From a preprogrammed **Quiet Channel** shortcut key:

1. Press the preprogrammed **Quiet Channel** shortcut key repeatedly to cycle between QC ON and QC OFF.

From a preprogrammed **Quiet Channel Menu** shortcut key:

1. Press the preprogrammed **Quiet Channel Menu** shortcut key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to cycle between QC ON and QC OFF.

With QC ON, the selected channel will operate in the Quiet mode when **Quiet Mode** is switched on.

With QC OFF, the selected channel will receive all signals irrespective of the **Quiet Mode** setting.

Repeat the steps above to set further channels to operate in the Quiet mode.

Quiet Mode:

The Quiet Mode setting enables quiet operation on any channels that have been selected using the Quiet Channel setting.

TO ENABLE QUIET MODE OPERATION:

From a preprogrammed **Quiet Mode** shortcut key:

1. Press the preprogrammed **Quiet Mode** shortcut key repeatedly to cycle between Q ON and Q OFF. After a few seconds the radio will return to normal operation.

From a preprogrammed **Quiet Mode Menu** shortcut key:

1. Press the preprogrammed **Quiet Mode Menu** shortcut key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to cycle between Q ON and Q OFF.
3. When the desired **Quiet Mode** setting is displayed briefly, press the programmed **Menu** key. The radio will return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select QUIET then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to cycle between Q ON and Q OFF.
5. When the desired **Quiet Mode** setting is displayed briefly, press the programmed **Menu** key. The radio will return to normal operation.

When Quiet Mode is ON, you will not hear any signals on the selected channel(s) unless someone specifically calls you using Selcall.

When Quiet Mode is OFF, you will be able to hear all signals on all channels.

RECEIVING SIGNALS IN THE QUIET MODE:

- If a normal signal is received on a QUIET channel, the  icon will be visible but no sound will be heard from the speaker and QUIET will be displayed for the duration of the signal. This means you will not be disturbed by the signal.
- If a normal signal is received on a channel that has not been selected as a Quiet Channel, the signal will be heard in the usual way.
- If a Selcall is received on a Quiet channel, the alarm will beep to alert you to the call, the callers Ident will be displayed and the Quiet mode will be cancelled. You can now press the PTT and talk in the usual way.

Once your communication is complete you should reactivate the Quiet mode again.

TRANSMITTING WHILE IN QUIET MODE:

If you press the **PTT** while in Quiet mode on a Quiet Channel, QUIET will be displayed and the radio will not transmit. To transmit, either switch off Quiet Mode or switch off the Quiet Channel setting on that channel.

DTMF

DTMF (Dual Tone Multiple Frequency) is an analog signalling system that allows the radio to dial telephone numbers on a network that uses Telephone Connect hardware.

TO MAKE A DTMF CALL TO A CONTACT SELECTED FROM A LIST:

From a preprogrammed **DTMF Menu** shortcut key:

1. Press the preprogrammed **DTMF Menu** key. The DTMF contact list will be displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired DTMF contact from the list provided then press the programmed **Menu** key.

The  icon appears and the radio displays DIALLING as it transmits the DTMF call. The radio then returns to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select DTMF then press the **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired DTMF contact from the list provided then press the programmed **Menu** key.

The  icon appears and the radio displays DIALLING as it transmits the DTMF call. The radio then returns to normal operation.

TO MAKE A DTMF CALL TO A PREDEFINED CONTACT:

From a preprogrammed **Dial DTMF** shortcut key:

1. Press the preprogrammed **Dial DTMF** key.

The  icon appears and the radio displays DIALLING as it transmits the DTMF call. The radio then returns to normal operation.

TO MAKE A DTMF CALL TO A PREDEFINED CONTACT ON A PRESELECTED CHANNEL:

From a preprogrammed **Recall & Dial DTMF** shortcut key:

1. Press the preprogrammed **Recall & Dial DTMF** key.

The radio switches to the preselected channel and Zone, the  icon appears and the radio displays DIALLING as it transmits the DTMF call. If Channel Announce is active, the preselected channel number will be announced. The radio then returns to normal operation on the preselected channel.

Monitor

The monitor function is used to monitor (listen) to a channel that would otherwise remain quiet under the control of a tone squelch system. Tone squelch systems allow multiple groups to share the same channel without disturbing each other. Only transmissions from radios in your group will open the squelch in your radio. Radios from another group may be talking on the channel causing the  icon to be displayed but you may not be able to hear them. The Monitor function overrides the tone setting to allow you to hear signals that would otherwise remain quiet.

From a preprogrammed **Monitor** shortcut key:

Press the preprogrammed **Monitor** shortcut key repeatedly to cycle between MON ON and MON OFF.

- When MON ON is selected, all signals on the channel will be heard in the speaker.
- When MON OFF is selected, only signals in your group will be heard.

From a preprogrammed **Monitor Menu** shortcut key:

1. Press the preprogrammed **Monitor** shortcut key. The current Monitor setting is displayed as MON ON or MON OFF.
2. Rotate the **Channel Knob** or press  or  to change the setting.

After a few seconds the radio will return to normal operation.

NOTE: The Squelch and Monitor settings operate separately. If MON ON is selected and there are no signals on the channel, the radio will still remain quiet under the control of the squelch.

Emergency

The Emergency key activates an emergency alarm. When the alarm is activated your radio transmits an emergency signal then displays EMERGENCY, sounds a tone alarm, and flashes the backlight.

TO CANCEL THE EMERGENCY:

1. Press the preprogrammed **Exit Emergency** shortcut key. The alarm will be cancelled and the radio will return to normal operation.

Alarm Reset

The **Alarm Reset** key will reset the **Emergency** alarm on the **CP40**.

The **Alarm Reset** key will reset the **Lone Worker, Man Down** or **Emergency** alarms on the CP50.

When the alarm is triggered the radio will emit a two tone alarm, flash the backlight and display EMERGENCY.

TO CANCEL THE ALARM:

1. Press the **Alarm Reset** shortcut key. The alarm will stop and the radio will return to normal.

Power Saving

The Power Saving function allows the radio to conserve power by 'sleeping' during periods of inactivity, while still retaining the ability to 'wake up' when an incoming call is detected.

The Power Saving mode can be set to OFF, Moderate or Aggressive.



A moderate setting will conserve power while still reacting quickly to signal inputs. If the battery is running low, the aggressive setting will conserve even more battery power, but may not respond as quickly to signal inputs.

TO SET THE POWER SAVE:

From a preprogrammed **Power Saving** shortcut key:

1. Press the preprogrammed Power Saving shortcut key repeatedly to cycle between PS OFF, MODERATE PS and AGGRESSIVE PS.

The radio to return to normal operation.

From a preprogrammed **Power Saving Menu** shortcut key:

1. Press the programmed **Power Saving Menu** shortcut key. The current setting will be displayed.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select PS OFF, MODERATE PS or AGGRESSIVE PS.
3. When the desired **Power Saving** setting is displayed briefly press the programmed **Menu** key. The radio will return to normal operation.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select PWR SAV then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select PS OFF, MODERATE PS or AGGRESSIVE PS.
5. When the desired **Power Saving** setting is displayed briefly press the programmed **Menu** key. The radio will return to normal operation.

Save Channel

Allows you to save a channel of your own selection to a shortcut key of your own selection.

NOTE: If the shortcut key you select is already assigned, the saved channel will overwrite it and the original shortcut assignment will be lost.

Press the preprogrammed **Save Channel** shortcut key:

1. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired channel to be saved.
2. Press the **Save Channel** shortcut key. **PRESS A KEY** is displayed.
 - To save the channel, short or long press a shortcut key of your own selection. **SAVED** is displayed then the radio returns to normal operation.
 - To exit without saving, press the **Save Channel** shortcut key again. **NOT SAVED** is displayed and the radio returns to normal operation without saving the channel.

To recall the saved channel, short or long press your selected shortcut key. The radio will switch to the saved channel.

Assign Key

The Assign Key function is a preprogrammed shortcut key that will allow you to assign any shortcut key to a function chosen from a list.

NOTE: If the shortcut key you select is already assigned, the saved function will overwrite it and the original shortcut assignment will be lost.

Press the preprogrammed **Assign Key** shortcut key:

1. **PRESS A KEY** is displayed.
2. Short or long press the shortcut key that you intend to assign with a feature.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired function from the function list provided.
4. To save the channel, press the programmed **Menu** key. **SAVED** is displayed then the radio returns to normal operation.
5. To exit without saving, press and hold the programmed **Menu** key. The radio returns to normal operation without saving.

To recall the saved function, short or long press your selected shortcut key.

Man Down

Man Down is a safety feature that uses tilt and movement sensors in the radio to determine if the user has fallen or has become motionless for an extended period of time. If so, it automatically transmits an alert signal.

To avoid false alarms, it is important that, if this feature is enabled in your radio, you understand and are trained on how to operate it and switch it on and off during periods of deliberate inactivity.

TO OPERATE THE MAN DOWN FEATURE:

From a preprogrammed **Man Down ON** shortcut key:

1. Press the preprogrammed **Man Down ON** shortcut key. Md ON is displayed indicating the Man Down feature is now switched ON.

From a preprogrammed **Man Down OFF** shortcut key:

1. Press the preprogrammed **Man Down OFF** shortcut key. Md OFF is displayed indicating the Man Down feature is now switched OFF.

From a preprogrammed **Man Down Toggle** shortcut key:

1. Press the preprogrammed **Man Down Toggle** shortcut key repeatedly to cycle between Md ON and Md OFF.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select MAN DOWN then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select Md ON or Md OFF.

When the desired setting is displayed wait a few seconds for the radio to return to normal operation.

Lone Worker

The Lone Worker feature is designed to help protect those who are working alone.

When enabled, the Lone Worker feature will sound an alarm at regular intervals to prompt you to 'Check-in' by pressing a key on the radio to confirm that you are OK. If you do not respond within the allotted time, the radio will assume that you may be in danger and will transmit an alarm signal indicating that you may require assistance.

The time intervals for '*Check-in*' and '*Response*' are preprogrammed and cannot be changed by the user.

TO OPERATE THE LONE WORKER FEATURE:

From a preprogrammed **Lone Worker ON** shortcut key:

1. Press the preprogrammed **Lone Worker ON** key. LW ON is displayed indicating the Lone Worker feature is now switched ON.

From a preprogrammed **Lone Worker OFF** shortcut key:

1. Press the preprogrammed **Lone Worker OFF** key. LW OFF is displayed indicating the Lone Worker feature is now switched OFF.

From a preprogrammed Lone Worker Toggle shortcut key:

1. Press the preprogrammed Lone Worker Toggle key repeatedly to cycle between LW ON and LW OFF.

From a programmed **Menu** key:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SETTINGS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select LONE WORKER then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select LW ON or LW OFF.

When the desired setting is displayed wait a few seconds for the radio to return to normal operation.

Man Down Calibration

Use the Man Down Calibration feature to set the radio's current orientation as the vertical reference for the tilt sensor.

The Man Down Calibration feature is only available on a preprogrammed key.

TO CALIBRATE THE TILT SENSOR:

1. Orientate the radio to match its intended use. For radios worn on a belt clip, the radio would normally be placed vertically on a flat level surface.
2. While holding the radio steady, press the preprogrammed Man Down Calibrate shortcut key. CAL DONE will be displayed briefly then the radio will return to normal operation.

DIAGNOSTICS

A range of radio test features may have been programmed into your radio. If so, selected features may be accessible by pressing one or more preprogrammed shortcut keys or by entering the Diagnostics menu. Please check with your dealer for available options.

To access **DIAGNOSTICS** through a menu (if available):

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select DIAGNOSTICS then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired diagnostic option then press the programmed **Menu** key to access that item.

The following is a list of diagnostic options.

Channel Information

Select **CHAN INF** from the programmed Diagnostics Menu to choose from a list of menu items that display information about the currently selected channel. Press the **▼** or **▲** keys to select the menu item then press the **Menu** key to view.

After viewing an item, press the programmed **Menu** key to return to normal operation or wait 5 seconds and the radio will return automatically.

Zone

Displays the selected Zone.

Number

Displays the selected channel number.

Name

Displays the name associated with the selected channel.

RX Frequency

Displays the receive frequency of the selected channel.

TX Frequency

Displays the transmit frequency of the selected channel.

RX Subtone

Displays the receiver CTCSS Subtone for the selected channel.

TX Subtone

Displays the transmitter CTCSS Subtone for the selected channel.

Bandwidth

Displays **NARROW** on a narrow-band (12.5kHz) channel and **WIDE** on a wide-band (25kHz) channel.

TX Power

Displays the selected Transmit Power level.

Voice TX

Displays whether Voice transmission is enabled on the selected channel.

Data TX

Displays whether Data transmission is enabled on the selected channel.

Quiet

Displays whether **QUIET** mode is enabled on the selected channel.

Selcall

Displays whether analog Selcall is enabled on the selected channel.

Digital Selcall

Displays whether Digital Selcall is enabled on the selected channel.

Battery Voltage

Displays the current battery voltage.

Press the preprogrammed **Battery Voltage** shortcut key or select the **BATTERY** option from the Diagnostics Menu. The battery voltage is displayed e.g. 7.75V. Press the **▼** or **▲** keys or preprogrammed **Battery Voltage** shortcut key or the **Menu** key again to return to normal operation.

Radio Information

Select **RADIO INFO** from the programmed Diagnostics Menu to choose a list of menu items that display information about the radio. Press the **▼** or **▲** keys to select the menu item then press the programmed **Menu** key.

After viewing an item, press the programmed **Menu** key to return to normal operation or wait up to 25 seconds and the radio will return automatically.

Selcall

Displays the radio's own Selcall Ident.

Serial No

Displays the serial number of the radio.

FW Rev

Displays the revision number of the radio's firmware.

PCB Rev

Displays the revision number of the radio's PCB.

RSSI

Displays the RSSI (received signal strength) of the incoming signal in dBm. Press the preprogrammed RSSI shortcut key or select **RSSI** from the Diagnostics menu. The radio displays the RSSI in dBm.

Press the preprogrammed **RSSI** shortcut key or the **Menu** key again to return to normal operation.

CP50 DIAGNOSTICS ONLY

Movement

Select **MOVEMENT** from the programmed Diagnostics Menu to display the radio's current rate of movement (acceleration). Low values indicate the radio is still or accelerating very slowly while high values indicate a higher rate of movement.

Press the programmed **Menu** key to exit and return to normal operation.

Tilt

Select **TILT** from the programmed Diagnostics Menu to display the radio's current tilt angle in degrees. Press the programmed **Menu** key to exit and return to normal operation.

Status

Your radio's Status indicates your current situation such as '*At Lunch*'. You can broadcast your status to others or simply set your status so that others may query it.

Send Status

To broadcast a preprogrammed **Status** message:

1. Press the preprogrammed **Send Status** key. Your radio will immediately transmit the preprogrammed Status message. **SENDING** will be displayed.

To broadcast a status message selected from a list:

1. Press the preprogrammed **Send Status Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired status message from the list provided.
3. Press the programmed **Menu** key or the **Channel Knob** to send the Status message. **SENDING** will be displayed.

To broadcast a status message from the Menu:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SERVICES** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **SEND STATUS** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired status message from the list provided.
5. Press the programmed **Menu** key or the **Channel Knob** to send the Status message. **SENDING** will be displayed.

If the message is received, your radio will receive an acknowledgment and **ACK** will appear briefly on your radio. Your Status message will be displayed on the receiving radio, along with your Ident.

Set Status

Allows you to select your radio's Status. Your radio will send this status in response to a Status Query sent from another radio.

To set a preprogrammed **Status** message:

1. Press the preprogrammed **Set Status** shortcut key. The status will be displayed for a period of time then the radio will return to normal operation.

To set a **Status Message** selected from a list:

1. Press the preprogrammed **Set Status Menu** shortcut key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired status message from the list provided.
3. Press the programmed **Menu** key or the **Channel Knob** to exit and return to normal operation.

To set a **Status Message** from the main Menu:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SERVICES then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select SET STATUS then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired status message from the list provided.
5. Press the programmed **Menu** key or the **Channel Knob** to exit and return to normal operation.

Status Query

Transmits a Status Query to the selected radio. If the query is received, the radio will transmit its status and your radio will beep. The selected radio's ID and status will then be displayed on your radio.

Press any key to clear the display and return to normal operation.

To send a **Status Query** to a preprogrammed radio contact:

1. Press the preprogrammed **Status Query** shortcut key. Your radio will immediately transmit the Status Query to the preprogrammed radio contact and **SENDING** will be displayed.

To send a **Status Query** to a radio contact selected from a list:

1. Press the preprogrammed **Status Query Menu** shortcut key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio ID from the contact list provided.
3. Press the programmed **Menu** Key or the **Channel Knob** to send the Status Query. **SENDING** will be displayed.

To send a **Status Query** from the main Menu:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SERVICES then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select QUERY STATUS then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio ID from the contact list provided.
5. Press the programmed **Menu** key or the **Channel Knob** to send the Status Query. **SENDING** will be displayed.

Check Request

Requests a Radio Check from a selected radio to confirm the selected radio is available and in range. If the Check Request is successful, the selected radio will respond and your radio will briefly display ACK. The selected radio will not be alerted to the request.

Sending a Check Request:

To send a **Check Request** to a preprogrammed radio contact:

1. Press the programmed **Check Request** shortcut key. Your radio will immediately transmit the Check Request to the predesignated radio and **SENDING** will be displayed.

To set a **Check Request** to a radio selected from a list:

1. Press the preprogrammed **Check Request Menu** shortcut key.
2. Rotate the Channel Knob or press **▼** or **▲** to select the desired radio ID from the contact list provided.
3. Press the programmed **Menu** key or the **Channel knob** to send the Check Request. **SENDING** will be displayed.

To set a **Check Request** from the main Menu:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SERVICES** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **CHECK REQUEST** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided.
5. Press the programmed **Menu** key or the Channel knob to send the Check Request. **SENDING** will be displayed.

Stun

Stun can be used to disable a radio that has been lost or stolen to prevent unauthorised use. Use of the stun feature is usually restricted. If the selected radio is switched on and in range and the Stun Request is successful, the selected radio will transmit a response and your radio will briefly display ACK. The selected radio is now stunned.

Sending a Stun Request:

To **Stun** a radio:

From a preprogrammed **Stun** shortcut key:

1. Press the preprogrammed **Stun** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided.
3. Press the programmed **Menu** key or the **Channel Knob** to send the Stun Request. **SENDING** will be displayed.

From the main **Menu**:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select SERVICES then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select STUN then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided.
5. Press the programmed **Menu** key or the **Channel Knob** to send the Stun Request. **SENDING** will be displayed.

NOTE: A freshly stunned radio will have a blank display and the controls will no longer work.

If a stunned radio is later recovered it can be revived using the Revive feature.

Revive

Use Revive to reactivate a radio that has been previously stunned using the Stun feature. The Revive feature is usually restricted.

Sending a Revive Request:

From a preprogrammed **Revive** shortcut key:

1. Press the preprogrammed **Revive** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided.
3. Press the programmed **Menu** key or the **Channel Knob** to send the Revive request. **SENDING** will be displayed.

From the main **Menu**:

1. Press the programmed **Menu** key.
2. Rotate the **Channel Knob** or press **▼** or **▲** to select **SERVICES** then press the programmed **Menu** key.
3. Rotate the **Channel Knob** or press **▼** or **▲** to select **REVIVE** then press the programmed **Menu** key.
4. Rotate the **Channel Knob** or press **▼** or **▲** to select the desired radio from the contact list provided.
5. Press the programmed **Menu** key or the **Channel Knob** to send the Revive request. **SENDING** will be displayed.

If the selected radio is switched on and in range and the Revive Request is successful, it will transmit a response and your radio will briefly display **ACK**. The selected radio is now re-enabled. You should restart the radio by switching it Off then On again.

MENU OPTIONS		
MENU ITEM	SUB MENU	SETTINGS
ZONE	Zone 1, Zone 2, Zone 3, etc	
SELCALL	Select Radio ID to Send	
DTMF	Select Radio ID to Send	
SETTINGS	Squelch Monitor Talkaround Quiet Squelch Level TX Power Backlight Channel Announce Beeper Power Save Selcall Mode Man Down (CP50) Lone Worker (CP50) Save Channel	Open, Closed On, Off On, Off On, Off 1 – 9 100mW, 1W, 5W On, Off, Timer On/Off On, Off, Alarm Off, Moderate, Aggressive Alpha ON, Alpha OFF On, Off On, Off
DIAGNOSTICS	RSSI Tilt (CP50) Movement (CP50) Channel Info Battery Voltage Radio Info	
SERVICES	Send Status Send Message Set Status Query Status Check Request Monitor Request Stun Revive	Select Radio ID to Send Select Message Select Status Select Radio ID to Send Select Radio ID to Send Select Radio ID to Send Select Radio ID to Send Select Radio ID to Send

PROGRAMMABLE KEY OPTIONS: CP40 & CP50

Alarm Reset	Resets the Lone Worker or Man Down alarm. If the radio is in Emergency mode, it will also get cancelled.
Assign Key	Lets the user manually assign a designated key to a specific function selected from a list.
Backlight	Cycles the backlight modes.
Backlight Menu	Cycles the backlight modes via a Menu.
Battery Voltage	Displays battery voltage (in Volts) on display.
Beeper	Cycles the Beep modes between OFF, ALERT ON and ALL ON modes.
Beeper Menu	Cycles the Beep modes via a Menu.
Channel Announce	Cycles the Channel Announce modes.
Channel Announce Menu	Cycles the Channel Announce modes via a Menu.
Check Request	Send radio Check Request to a specific pre-programmed target ident. Intended to be mapped to a single key press.
Check Request Menu	Show the Ident Selection Menu. Once the user selects the target ident, the radio sends the radio check request.
Dial DTMF	Dial (transmit) a specific DTMF (one of the ones defined in the DTMF list).
Dial Selcall	Dial a specific selcall ident (one of the ones defined in the Ident list).
Display RXDCO	Display RX DC offset on screen.
DTMF Menu	Show DTMF selection Menu. Dial (transmit) the DTMF once user selects one.
Emergency	Activate / de-activate emergency mode; configured as per programmer "Emergency" page.
Exit Emergency	De-activate emergency mode.
Keylock	Enter / exit key lock state (same key).
Menu	Display menu
Monitor	Open/close monitor.
Monitor Menu	Brings up a menu to select Monitor on/off.
Power Saving	Cycle power saving mode between off, moderate, aggressive.
Power Saving Menu	Brings up a menu to select Power Saving mode.
Quiet	Toggle quiet state on/off.
Quiet Channel Menu	Brings up a menu to select Quiet channel on/off.

PROGRAMMABLE KEY OPTIONS: CP40 & CP50

Quiet Channel Toggle	Toggle quiet channel on/off.
Quiet Menu	Brings up a menu to select Quiet on/off.
Recall Channel	Recall a specific channel.
Recall, Dial DTMF	Recall a specific channel, and dial selected DTMF.
Recall, Dial Selcall	Recall a specific channel, and dial selected selcall.
Redial Selcall	Sends a selcall to the most recently dialed or received ident.
RSSI	Display RSSI (in dBm units) on screen
Save Channel	Lets user save current channel for quick recall.
Scan	Start / stop scanning.
Scan Hold	Manually hold a busy channel.
Scan Remove	Resume scanning and remove current channel from the scan for the duration of that scan session.
Scan Resume	Resume scanning and skip current channel from the scan for a time. Up/Down will have the same effect.
Scan Toggle	Toggle the current channel's "Add to Zone Scan" flag.
Selcall Menu	Show Selcall ident selection menu.
Selcall Mode Menu	Brings up a menu to select Alpha mode.
Send Message	Send a specific pre-programmed message. Intended to be mapped to a single key press.
Send Message Menu	Show Selcall message selection menu and send the message once the user selects one. MDC1200 messages are a broadcast so there is no target ident.
Send Status	Set the status to a specific pre-programmed value and send the status report. Intended to be mapped to a single key press.
Send Status Menu	Show the Status Selection menu. Radio will send the selected status upon selection.
Set Status	Set the status to a specific pre-programmed value. Intended to be mapped to a single key press.
Set Status Menu	Show the Status Selection menu. Radio will send the selected status in response to Status Query.
Squelch	Force squelch open/closed.
Squelch Level	Show squelch level selection menu (allow user to select the level).
Squelch Menu	Brings up a menu to select Squelch on/off.

PROGRAMMABLE KEY OPTIONS: CP40 & CP50

Status Query	Send status query to a specific pre-programmed target ident. Intended to be mapped to a single key press.
Status Query Menu	Show the Ident Selection Menu. Once the user selects the target ident, the radio sends the status query.
Stun Request Menu	Show the Ident Selection Menu. Once the user selects the target ident, the radio sends the Stun request.
Talkaround	Toggle talkaround on/off.
Talkaround Menu	Brings up a menu to select Talkaround on/off.
TX Power	Cycle TX power level.
TX Power Menu	Brings up a menu to select the TX power.
Zone	Show zone selection menu (allow user scroll through zones).

PROGRAMMABLE KEY OPTIONS: CP50

Lone Worker Off	Disable Lone Worker.
Lone Worker On	Enable Lone Worker.
Lone Worker Toggle	Toggle Lone Worker between enabled/disabled.
Man Down Calibrate	Set current radio orientation as vertical reference for the tilt.
Man Down Off	Disable Man Down.
Man Down On	Enable Man Down.
Man Down Toggle	Toggle Man Down between enabled/disabled.

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INTERFERENCE WITH VEHICLE ELECTRONICS:

Some of the electronics in your vehicle may be susceptible to RF energy when your radio is transmitting. Examples of electronic devices in your vehicle that could be affected are anti-lock/anti-skid braking systems, cruise control systems and fuel injection systems. If your vehicle is fitted with any of these systems please consult your vehicle manufacturer to determine whether these systems are likely to be affected by your radio when it is transmitting.

USING THE RADIO IN EXPLOSIVE ATMOSPHERES OR BLASTING AREAS

Switch off your radio before entering any area where there may be inflammable gas, liquids or dust. An explosion could result in serious injury or death.

Switch off your radio when approaching a blasting area. Blasting areas are usually sign posted with instructions to users to turn off two way radios. Strong radio transmissions could ignite blasting caps resulting in an unscheduled explosion resulting in serious injury or death.

Information Concerning UHF CB Radio:

IMPORTANT

The use of the Citizen Band radio service is licensed in Australia by the ACMA Radio communications (Citizens Band Radio Stations) Class Licence and in New Zealand by the Ministry of Economic Development New Zealand (MED). A General User Radio Licence for Citizens Band radio and operation is subject to conditions contained in those licences. The class licence for users and equipment operating in the CB/PRS 477 MHz band has been amended. This radio meets the new 80 channel standard.

In simple terms the same amount of spectrum is available; however, radio transceivers can now operate in a narrower bandwidth and hence use less spectrum per channel. These radios are generally referred to as narrowband or 12.5 kHz radios. By using 12.5 kHz channel spacing instead of 25 kHz, the 40 channels originally allocated can now be expanded to 80 channels thereby

doubling the channel capacity and relieving congestion in the UHF CB/PRS band. Older 40 channel wideband radios will continue to operate on the original 40 channels, however they will not be able to converse on the newer channels 41 – 80. The newer narrowband radios will be able to converse with all older 40 channel wideband radios on all channels 1 – 40 as well as the newer channels allocated from 41 – 80.

The mixing of narrowband and wideband radios in the same spectrum may possibly cause operating issues of interference and varying levels of received volume. For example, when a new narrowband radio receives a transmission from an older wideband radio the speech may sound loud and distorted. Alternatively, when an older wideband radio receives a signal from a new narrowband radio, the speech may sound quiet. In each case, simply adjust your radio volume for best performance.

Depending on how close your receiving radio is to another transmitting radio, there might be interference from the transmitting radio if it is using a channel adjacent to the channel you are listening to. Simply switch up or down a few channels from the currently selected channel.

The above situations are not a fault of the radio but a symptom of operating wideband and narrowband radios in the same bandwidth. These minor issues should decrease over time as the population of wideband radios ages and decreases.

Further information and updates are available from the Australian Communications and Media Authority (ACMA) at www.acma.gov.au and the Ministry of Economic Development (MED), Radio Spectrum Management at www.rsm.govt.nz.

Repeater Channels:

Duplex operation allows the radio to transmit on a different frequency to that which it receives. This allows operation through repeater stations.

A repeater station consists of a linked transmitter/receiver combination installed in a prominent location. The repeater is designed to receive signals on a designated channel and retransmit them on another channel. Repeaters are usually mounted on hills or tall buildings. The increased elevation greatly improves both the receiving and transmitting range of the repeater allowing it to receive and retransmit signals to radios that would otherwise be out of range of each other.

Normally, UHF CB radios transmit and receive on the same frequency - known as Simplex operation. However, to communicate through repeaters, your radio must be able to transmit and receive on different channels - otherwise known as Duplex operation. Your radio may be programmed with a Talkaround key to allow you to choose between Duplex and Simplex operation.

The Duplex function can only be selected on UHF CB channels 1 - 8 and 41 - 48 as these are the channels that have been allocated for repeater use. When Duplex is selected, your radio receives on the selected channel (e.g. CH 1) but transmits 30 channels higher (CH 31). The repeater hears your signal on CH 31 and retransmits it on CH 1 for others to hear. Your CM40/CM50 radio allows you to enable or disable Duplex mode on individual repeater channels. In this way any repeater channels that are not being used with repeaters in your area can be used in Simplex mode for normal direct radio-to-radio communications. When a repeater channel is selected the Talkaround icon will be displayed when the channel is in Simplex mode and will be cleared when it is in Duplex mode.

IMPORTANT: UHF CB channels 1 - 8, 31 - 38, 41 - 48 and 71 - 78 should only be used in Simplex mode if there are no repeaters in or near your location that operate on the selected channel. In particular, avoid operating in Simplex mode on any of the repeater input channels 31 - 38 and 71 - 78 unless you are absolutely sure that there are no repeaters in range using that channel. Inadvertently transmitting on an active repeater input frequency in simplex mode could cause interference to other users on that repeater who might not be audible to your radio.

Selective Calling:

When using selective calling on UHF CB channels, the ACMA CBRS Class License (Australia)/MED GURL (New Zealand) regulations require that the operator of a UHF CB station limit the cumulative transmission time of tones used for selective calling to a maximum of 3 seconds in any 60-second period. In the default configuration this will equate to placing no more than 6 selective calls in any 60-second period, but may change depending on the configuration of your radio.

Emergency Channels:

The ACMA has allocated channels 5/35 for emergency use only. Channel 5 is the primary Simplex Emergency Channel. Where a channel 5 repeater is available, you should select Duplex on channel 5. Channel 35 is the input channel for the channel 5 repeater. Therefore channel 35 should also not be used for anything other than emergency transmissions.

Telemetry Channels:

ACMA regulations have allocated channels 22 and 23 for telemetry-only applications and have prohibited the transmission of speech on these channels. Consequently the radio has a transmit inhibit applied to channels 22 and 23.

In the event that additional telemetry/telecommand channels are approved by the ACMA, these channels shall be added to those currently listed where voice transmission is inhibited. Currently, transmissions on channels 61, 62 and 63 are also inhibited and these channels are reserved for future allocation.

GME WARRANTY AGAINST DEFECTS

This warranty against defects is given by GME Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7. This warranty statement only applies to products purchased in Australia. Please contact your local GME distributor for products sold outside of Australia. Local distributor details at www.gme.net.au/export

1. Consumer guarantees:

- 1.1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 1.2 To the extent we are able, we exclude all other conditions, warranties and obligations which would otherwise be implied.

2. Warranty against defects:

- 2.1 This Warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.
- 2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.
- 2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited.
 - (a) In the case of goods we supply, to any one of the following as we decide –
 - (i) The replacement of the goods or the supply of equivalent goods.
 - (ii) The repair of the goods.
 - (iii) The cost of repairing the goods or of acquiring equivalent goods.
 - (b) In the case of services we supply, to any one of the following as we decide –
 - (i) The supplying of the services again
 - (ii) The cost of having the services supplied again.
- 2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.
- 2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to you under this warranty (to the extent permitted at law), we agree to supply those services again at no extra charge to you.
- 2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.

Before returning any goods you will be required to follow the available options:

Contact our Customer Support Team on 1300 463 463 or techsupport@gme.net.au.

A customer support team member will troubleshoot and validate if your product is faulty. If so, they will email you a product RMA (Return Material Authorisation).

Products that are authorised to be returned to GME must include the following:

RMA form (Return Material Authorisation)

A copy of your proof of purchase, the faulty product, including all accessories

2.7 Send your claim to:

Australia

GME Pty Ltd

17 Gibbon Rd, Winston Hills

NSW 2153, Australia

T: (02) 8867 6000 | F: (02) 8867 6199

E: servadmin@gme.net.au

RMA Request: rma@gme.net.au

New Zealand

GME Communications (NZ) Limited

Unit A, 11 Echelon Place, East Tamaki

Auckland 2013, New Zealand

T: (09) 274 0955 | F: (09) 274 0959

E: nzbranch@gme.net.au

RMA Request: nzrma@gme.net.au

2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to you, and reimburse you for your reasonable expenses of sending your warranty claim to us.

3. What this warranty does not cover:

3.1 This warranty will not apply in relation to:

- (a) Goods modified or altered in any way.
- (b) Defects and damage caused by use with non GME products.
- (c) Repairs performed other than by our authorised representative.
- (d) Defects or damage resulting from misuse, accident, impact or neglect.
- (e) Goods improperly installed or used in a manner contrary to the relevant instruction manual; or
- (f) Goods where the serial number has been removed or made illegible.

4. Warranty period:

4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

Product Type	Warranty Period
CP40 & CP50 Radio	5 Years
Accessories	1 Year



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