







INSTRUCTION MANUAL

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PREFACE

COPYRIGHT NOTICE

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SAFETY INFORMATION

The XRS-660 is a radio transmitting device.

- When transmitting, keep the antenna more than 25 mm from any part of the head or body.
- Do not transmit near electrical blasting equipment or in explosive atmospheres.
- Do not allow children to operate a radio transmitter unsupervised.

IMPORTANT INFORMATION CONCERNING UHF CB RADIO

The use of the Citizen Band radio service is licensed in Australia by the ACMA Radiocommunications (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.

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.

IMPORTANT ADVICE

- Read all instructions carefully and completely before operating your radio and retain this manual for future reference.
- Never connect the radio to a power source other than the supplied battery. This may damage your radio.
- Do not place your radio in front of a vehicle airbag.
- Do not use your radio with a damaged antenna.
- Do not attempt to modify your radio in any way.
- Always charge your radio at normal room temperature.
- Always switch off your radio where notices restrict the use of two-way radio or mobile telephones.
- **Use only** GME approved rechargeable battery packs with the supplied charger.
- Avoid storing or charging your radio in direct sunlight.
- Avoid storing or using your radio where temperatures are below -20°C or above +60°C.

INTRODUCTION

Building on the market-leading innovation of GME's popular range of XRS[™] Connect UHF CB Radios, the Australian Made XRS-660 offers a number of exciting new features, clearly demonstrating GME's ongoing commitment to the development of new technology for UHF CB Radio users.

The XRS-660 is the first Handheld UHF CB radio to feature a colour TFT LCD screen, providing the ultimate Handheld radio display for all environmental conditions – even in full sunlight.

Bluetooth[®] audio connectivity allows the XRS-660 to wirelessly connect to an extensive range of third-party audio accessories, providing users with new and improved ways to stay connected.

Built-in GPS functionality ensures the XRS-660 can provide true location awareness without relying on a smartphone to provide GPS location data. This capability is particularly useful in commercial applications where location tracking of users in remote areas may be required for workplace safety.

Featuring rugged IP67 Ingress Protection and a MIL-STD810G rating, the XRS-660 is our toughest and most advanced handheld radio yet.

ACCESSORIES SUPPLIED

- 5 Watt UHF CB Handheld Radio (XRS-660)
- 2550 mAh Li-ion Battery Pack (BP030)
- Desktop Charger (BCD026)
- AC Adaptor (PS005)
- Removable Flexible Antenna (AE4028)
- Belt Clip (MB059)

FEATURES

Transmit (TX)

- 5W/1W/100mW RF Power: Selectable transmitter power allows you to conserve the battery when transmitting in close range by using the Low (1W) or Ultra-Low (100mW) Power setting.
- Individually Programmable Duplex Function: User selectable for only those individual channels in your area that have repeaters, leaving the others free for use as extra simplex channels.
- Voice activated PTT (VOX): The VOX feature allows you to have handsfree conversations by detecting your voice and causing the radio to transmit without the need to press PTT.

Receive (RX)

- CB Channels: 80 channels 477 MHz UHF CB
- User Programmable Receive Channels: 8 zones of 50 channels per zone for a total of 400 additional receive-only channels.
- Digital Signal-Strength Meter: Provides a numeric signal strength indication in numbers from 0 to 9+.
- Advanced Power Saving Feature: Allows the XRS Connect Radio to 'sleep' during periods of inactivity to conserve battery power.
- Scanning and Memory Functions
 - Microprocessor Controlled Frequency Synthesiser: Allows user programmable control of scanning, channel memories and selected feature options.
 - Programmable Scan Function: Scans the selected UHF CB and programmable receive channels with Open, Priority and Network scan functions available.
 - Priority Channels: Two separate Priority Channels allow any channels of your choice to be instantly recalled at the press of one of the Priority keys.
 - Dual Watch: Scans two channels, working and Priority.
 - Triple Watch: Scans three channels, working and both Priority.

Signal Processing

- Digital Signal Processing (DSP): Measures, filters and compresses standard analogue audio signals and converts them into digital format. Allows advanced RF and audio processing techniques to be applied to maximise the radio's performance.
- Advanced Signal Management (ASM): Identifies interference caused by strong local signals on adjacent channels and prevents these from opening your Squelch. ASM also minimises distortion on reception by fine tuning the receiver frequency to match that of the incoming signal.
- Dynamic Volume Control (DVC): Automatically compensates for variations in received audio level to provide a constant audio output level to the speaker.
- Advanced Noise Reduction: Reduces background noise and hiss in transmit and receive audio to improve audio quality and make speech clearer.
- Audio Graphic Equaliser: Four band graphic equalizer to customise the received audio.

• Privacy Functions

- Voice Inversion Scrambler: When activated, scrambles your voice so that communications are only intelligible to others using the same scrambler technology.
- In-built CTCSS and DCS: User selectable Continuous Tone Coded Squelch System and Digital Coded Squelch system provides silent operation on individual channels.
- In-Built SelCall with Quiet Mode: Provides selective calling of individuals or groups with fully user-adjustable 5-tone transmitted SelCall Ident. Also allows alphanumeric naming of up to 20 Idents for easier caller identification.
- Physical Properties
 - Water & Dust Proof IP67: Provides protection against dust and temporary immersion in water.
 - Removable Antenna: High performance flexible antenna included.
 - Rugged Construction: With die-cast chassis.
 - Battery Pack: Heavy duty 7.4V 2550 mAh Li-ion.

- Location Awareness and Connectivity
 - In-built GPS Receiver: Location awareness and location sharing with XRS Location Services.
 - Bluetooth audio: Connect Bluetooth audio accessories.
 - Bluetooth app connectivity: Use the XRS Connect app to program and update your radio, and use XRS Location Services.
- User Controls and Interface
 - High Contrast Transflective Colour Liquid Crystal Display: Fully detailed colour LCD display is readable under all lighting conditions.
 - LED Backlight: For night viewing with automatic time-out.
 - Loud, Clear Audio: 2 Watt front facing speaker.

For a more detailed description of all key functions, refer the 'General Operation' section.

XRS CONNECT APP

This section provides details about the **XRS Connect** app.

To download the app for iOS or Android:

- 1. Visit App Store or Google Play.
- 2. Search for XRS Connect.

XRS CONNECT

The **XRS Connect** app is the easy way to customise, update and maintain your XRS Connect radio using Bluetooth.

- When your device is paired to the radio, select the to read your radio's settings into the app.
- After you have configured your preferences in the app, select
 Write to Radio to update your radio with your new settings.

For information on pairing your smart device with your XRS Connect radio, see the 'Pairing' section that follows.

XRS LOCATION SERVICES

XRS Location Services is a feature included in XRS Connect radios that allows users to share their location by transmitting it to other XRS Connect radios at the end of a normal voice transmission. The XRS Connect app is connected to the XRS Connect radio via Bluetooth® and allows the user to display location of other XRS Connect radios on a map. The app cannot share location without being connected to an XRS Connect radio. The XRS Connect radio gets the location from the built-in GPS (if available) or the Bluetooth® connected mobile device.

XRS Location Services transmits your geographic location as a supplementary service to voice communication on CB channels. This feature complies with the Radiocommunications (Citizen Band Radio Stations) Class Licence 2015.

GME values your privacy, and does not collect any of your location data. The location data is only stored within the XRS Connect app and is transmitted by your XRS Connect radio.

PAIRING

To pair your smart device with your XRS Connect radio:

- 1. Open the **Radios** section of the XRS Connect app.
- A list of available radios will be displayed. The XRS Connect app is continually refreshing to search for new radios.
- 3. Locate your radio in the list and tap the name of the radio to pair.
- You will be asked to confirm a security PIN on both the mobile device and radio. See the Bluetooth section of this manual for more information.

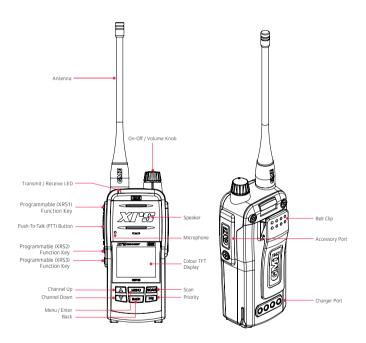
When successfully connected the \ast icon on your radio should change to \ast to show that the Bluetooth pairing is successful.

NOTE: The Bluetooth connection between your smart device and your XRS Connect radio must be made through the XRS Connect app. You will not be able to pair your smart device to your XRS Connect radio using the normal Bluetooth settings option on your smart device.

The XRS Connect app is compatible with iOS 14 and above and Android 8.0 and above.

GETTING STARTED

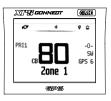
CONTROLS



DISPLAY

Display Symbols

The diagram below explains the icons that display on the LCD screen.



| ICON | DESCRIPTION | ICON | DESCRIPTION |
|--------------|--|---------------|---|
| i Cil | Channel is in Scan Memory (animates if actively scanning) | Su | Channel is in Silent Memory Using DCS |
| B | Scrambler Enabled | S | Channel is in Silent Memory Using CTCSS |
| ROG | Roger Beep Enabled | Q | Channel is in Quiet Memory |
| C÷. | Selcall Sending | D | Channel is in Quiet Memory and Quiet Mode is Active |
| ÷ | Selcall Received | u (⊕) | Channel Busy |
| Ŷ | Location Services Location and Name/Status Ready to Send | A.P. | Transmitting |
| Ŷ. | Location Services Name/Status Ready to Send | Ċ | Battery Low (Flashes if Critical) |
| 0 | Bluetooth Headset Connected (Flashes if Connection is Poor) | Ľ1 | Battery Medium |
| * | Bluetooth is Enabled | Ŵ | Battery High |
| [*] | Bluetooth is Connected | | Battery Very High/Full |
| <u>71</u> 24 | Channel is Set as Duplex | | · |
| ₽ -)) | VOX (Voice Activated PTT) Enabled | | |

BATTERY

Your XRS-660 is supplied with a 7.4 Volt 2550 mAh Li-ion rechargeable battery pack. You should fully charge the battery before using it for the first time.

If left unused your radio's battery pack may slowly discharge over time. If you have not used your XRS-660 for some time, you should recharge the battery pack before use.

The battery pack is a sealed unit. There are no user serviceable parts inside.

WARNING: Use only GME approved battery packs and chargers. Use of other types may be dangerous and will void the warranty.

Fitting the battery:

- 1. Align the bottom of the battery with the slots on the base of the radio.
- 2. Rotate the top of the battery pack toward the radio until it clicks into place.

Removing the battery:

- 1. Lift the latch at the top rear of the radio.
- 2. Gently pull the battery away from the latch.
- 3. Lift the battery upwards out of the slots at the base of the radio.

Charging the battery:

- 1. Plug the PS005 AC adaptor into a standard 240 Volt outlet.
- 2. Plug the lead from the PS005 into the charging socket on the rear of the BCD026 charging cradle.
- Place the XRS-660 with battery attached into the charging slot. The charger indicator LED will light Red.
- 4. Once the battery is charged, the charger indicator LED will change to Green.



CONSERVING YOUR BATTERY

The XRS-660 has built in power saving features to help you get the maximum amount of time between charges from your Li-ion battery pack. If you need to operate your radio in a situation where you require maximum battery life (e.g. a remote site where there is no convenient recharging facility nearby), the following hints can greatly reduce the amount of power drawn from the battery pack.

Low Transmit Power setting

The transmitter has High, Low and Ultra-Low power settings. If you are only operating over short distances, are in a reasonably high location or are close to a local repeater, try using the Low or Ultra-Low transmit power settings. These reduce the transmitter power from a High power of 5 Watts down to 1 Watt for the Low setting and 100mW for the Ultra-Low setting, significantly extending the available 'talk' time.

Power Saving mode

The Power Saving function is designed to conserve power and extend the battery life by allowing the radio to sleep during periods of inactivity. The LOW Power Saving setting will respond more quickly to incoming signals while the HIGH Power Saving setting will conserve the most amount of power but may not be as responsive to incoming signals. The XRS-660 will automatically enter the Power Saving mode after around 5 seconds of inactivity (i.e. no transmission or reception). As soon as a signal is received or any keys are pressed, the XRS-660 will wake up again. This sleep function is automatic and by itself can greatly extend the battery life in standby mode by many hours.

Backlight

Turning the LCD backlight off will conserve the most amount of power or using the Auto setting for LCD backlight will turn it off after a few seconds of inactivity.

Quiet mode

If QUIET mode is selected, the radio will remain 'muted' on Quiet channels even if they are busy unless your SelCall Ident is received.

Scanning

The radio draws more power from the battery when scanning than when monitoring a single channel. This is because it must wake more often to monitor each channel for activity. Battery life can be extended by avoiding any unnecessary scanning. In addition, scanning several channels increases the chance of finding a signal thereby keeping the receiver awake and the Squelch open more often.

General

Continuously monitoring a busy channel will reduce the battery life because incoming signals will keep the receiver awake and the Squelch will stay open for longer periods of time. This will draw much more power from the battery pack. If you are expecting to receive a SelCall on a busy channel, program that channel for 'Quiet' operation and select the Quiet mode. The radio will then stay 'muted' until your SelCall Ident is received.

GENERAL

ON/OFF AND 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: At the minimum volume setting there is still sufficient volume to be heard in a quiet cabin environment.

SELECTING CHANNELS

To select a channel, press the \bigwedge or \bigvee key. Press \bigwedge to select a higher channel or \bigvee to select a lower channel. The selected channel is displayed on the display. Press and hold either key to advance quickly through the channels.

SQUELCH

The Squelch is used to eliminate any annoying background noise when there are no signals present. The Squelch can be opened or closed using the Squelch key which is by default assigned to the press and hold function of the **XRS1** key.

When the Squelch is open the receiver's background noise can be heard and the icon is displayed. When the Squelch is closed the receiver remains quiet while there are no signals present but any incoming signals will override the Squelch and be heard in the speaker.

ADJUSTING THE SQUELCH LEVEL

The Squelch sensitivity level has been factory set to provide optimum performance under most operating conditions. If required, the sensitivity level can be adjusted to suit changing conditions.

To adjust squelch sensitivity:

- 1. Press the **MENU** key.
- 2. Navigate to RADIO SETTINGS > SQUELCH LEVEL. You can use the \bigwedge or \bigvee key to adjust the squelch level.

The default squelch sensitivity level is 2.

SIGNAL METER

The signal meter indicates the relative strength of the incoming signal in numerical format. Signal strengths are displayed on the right of the Channel Display in values from 0 to 9. Signals above strength 9 are displayed as 9+.

BRIGHTNESS

The Colour LCD display is backlit for easier viewing under a wide range of lighting conditions. The backlight will dim if no keys are pressed for a period of time to conserve battery. The brightness level can be smoothly adjusted in steps from 0 to 10.

To adjust brightness level:

- 1. Press the **MENU** key.
- 2. Navigate to **USER INTERFACE > BRIGHTNESS.**

You can use the \bigwedge or \bigvee key to adjust the brightness.

A Dim function can also be assigned to one of the programmable **XRS** keys to quickly switch the brightness level to minimum for low light viewing. This saves having to manually readjust the brightness level when moving into low light environments.

To assign the Dim function to a key, press the **MENU** key and navigate to **PROG BUTTONS** and its options to configure this feature.

To adjust the display dim timeout:

- 1. Press the **MENU** key.
- 2. Navigate to **USER INTERFACE > DISPLAY DIMS.**

You can use the \bigstar or \bigvee key to adjust the time before the display dims in seconds.

TRANSMITTING

Prior to transmitting, always check the channel is clear. This can be done by listening to the channel or by visually checking that the is icon is not visible or the signal meter is not indicating a signal.

To transmit:

- Press the **PTT** on the microphone. The *I* icon will appear and the LED indicator on the upper edge of the radio will illuminate red.
- Hold the microphone about 3-5 cm from your face and speak at a normal voice level. Since the microphone is quite sensitive, it is not necessary to raise your voice or shout.
- Release the PTT when you have finished talking, the ricon and red LED will disappear.

Always listen to ensure the channel is free before transmitting.

TRANSMIT POWER

The transmitter power can be set to a high power of 5W down to a low power of 1W or an ultra-low power of 100mW. Using a lower transmitter power for short range communications will conserve battery power and can increase battery life.

To set the transmitter power:

- 1. Press the **MENU** key.
- 2. Navigate to RADIO SETTINGS > TX POWER.

You can use the \bigwedge or \bigvee key to set the transmitter power to 5W, 1W or 0.1W. By default, the press function of the **XRS2** key will cycle through transmitter power levels.

TIME-OUT TIMER

The radio has a built-in time-out timer that automatically limits transmissions to a maximum of 3 minutes of continuous operation. This feature is required by the ACMA to prevent accidental blocking of the frequency should your PTT become jammed or be otherwise pressed accidentally. When the time-out timer activates, the radio will give a low tone for a few seconds and the transmitter will be temporarily disabled. Release the **PTT** to restore normal operation.

BUSY LOCKOUT

When enabled, the **Busy Lockout** function detects when someone is transmitting on the channel and prevents your radio from transmitting over them. If you press the **PTT** when the channel is busy the radio will emit a warning beep and the icon *w* won't be displayed. If this happens, look for the *b* icon on the display as an indicator that the channel is already in use. If the channel is busy, simply wait until the channel is clear and press the **PTT** again.

When **Busy Lockout** is disabled, you should check that the channel is clear before pressing the PTT to avoid transmitting over others who may be already transmitting on the channel.

To enable/disable busy lockout:

- 1. Press the **MENU** key.
- Navigate to RADIO SETTINGS > BUSY LOCK. You can use the MENU key to turn this function ON or OFF.

VOICE SCRAMBLER

Your radio incorporates a simple voice scrambler using band inversion.

The scrambler is compatible with the majority of scramblers used by other manufacturers, allowing you to enjoy scrambled communications with owners of non-GME radios. Once the scrambler has been activated your transmission and reception will only be intelligible to others using the same scrambler technology.

To enable/disable voice scrambler:

- 1. Press the **MENU** key.
- Navigate to RADIO SETTINGS > SCRAMBLER. You can use the MENU key to turn this function ON or OFF.

To avoid interference with other services or users, the scrambler cannot be enabled on channels 5, 11, 22, 23, 31-38, 61, 62, 63, 71-78 or on any channel that has been set to Duplex mode (1-8).

BEEP TONE VOLUME

The Beep tone provides audible feedback whenever the keys are pressed. The Beep tone volume can be adjusted in values from 0 - 10.

To switch the beep off, select 0.

To adjust volume of beep tone:

- 1. Press the **MENU** key.
- Navigate to USER INTERFACE > BEEP VOLUME. You can use the or key to increase or decrease the beep tone.

DYNAMIC VOLUME CONTROL (DVC)

The modulation level of signals heard on the UHF CB band has always varied considerably resulting in noticeable differences in received audio volume between stations.

Generally, users have compensated for this by adjusting the Volume control for each incoming signal.

With the introduction of 80 channel narrow band transmissions that use lower levels of modulation, the differences in received audio volume is likely to increase further.

Your XRS Connect radio is able to automatically compensate for these variations by utilising a Dynamic Volume Control. When activated through the menu, this feature automatically compensates for variations in received audio level resulting in a constant audio output level to the speaker.

To activate/deactivate Dynamic Volume Control:

- 1. Press the **MENU** key.
- Navigate to RADIO SETTINGS > DYNAMIC VOL. You can use the MENU key to turn this function ON or OFF.

SELECTING THE ACTIVE SPEAKER

The XRS-660 radio has an internal speaker and supports a second accessory speaker in the MC013 speaker microphone.

By default, sound is reproduced by both speakers; however, if you prefer, one of these speakers can be switched off, leaving either the radio's speaker or the accessory speaker to reproduce sound. **To select speakers:**

- 1. Press the **MENU** key.
- Navigate to RADIO SETTINGS > SPEAKER. You can use the for V key to select an option.

MICROPHONE GAIN

The microphone gain controls the sensitivity of the microphone to your voice input level. If you are quietly spoken or are operating in a quiet environment you can increase the microphone gain to make your voice sound clearer. If your voice is quite loud or you are working in a noisy environment and wish to minimise the amount of background noise that is picked up, you should reduce the microphone gain.

The XRS Connect radio supports separate microphone gains for the radio's internal microphone and the microphone in a connected Bluetooth® accessory.

To adjust radio microphone gain:

- 1. Press the **MENU** key.
- 2. Navigate to **RADIO SETTINGS > MIC GAIN.**

You can use the \bigstar or \checkmark key to increase or decrease the microphone gain.

To adjust Bluetooth® microphone gain:

- 1. Press the **MENU** key.
- 2. Navigate to RADIO SETTINGS > BT MIC GAIN. You can use the \bigwedge or \bigvee key to increase or decrease the microphone gain.

NOTE: The Microphone Gain provides a 'fine' adjustment to the microphone sensitivity. A wider adjustment range is available through the XRS Connect App.

ROGER BEEP

The Roger Beep is a tone that is automatically transmitted whenever the PTT is released. This tone serves to alert the receiving party that your transmission has ended.

- 1. Press the **MENU** key.
- 2. Navigate to **RADIO SETTINGS > ROGER BEEP.**

You can use the **MENU** key to turn this function **ON** or **OFF.**

When the Roger Beep tone is enabled, the ROG icon is displayed.

REPEATER AND DUPLEX MODE

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 is fitted with a Duplex function to allow you to operate through repeaters. By default, the press function of the **XRS1** key will toggle Duplex.

The Duplex function can only be selected on 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 XRS Connect 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.

To enable duplex on a repeater channel:

- 1. Select the required repeater channel (1 8, 41 48).
- Briefly press the duplex key. By default the duplex key is assigned to the press function of the XRS1 key. The icon will appear on the display accompanied by a high beep.

To remove duplex from a repeater channel:

- 1. Select the required repeater channel (1 8, 41 48). If duplex is currently selected, the icon will be displayed.
- Briefly press the duplex key. The icon will disappear from the display accompanied by a low beep.

NOTE: 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.

PRIORITY CHANNEL

The Priority Channel feature allows you to store two channels as Priority Channels that can be instantly recalled at the press of a key. These can be used to provide instant access to your working channel, your local repeater channel or any other favourite channel. They are also used in conjunction with the Priority Scan mode, Dual Watch and Triple Watch modes.

Priority Channels are programmed using the Priority keys. Priority Channel 1 is accessed using the PRI key and Priority Channel 2 can be assigned to one of the programmable XRS keys.

To store a priority channel:

- 1. Select the required channel.
- Press and hold the **PRI** key for Priority Channel 1 or the XRS key programmed to Priority Channel 2. The channel number will flash for a few seconds then a high beep will be heard as the channel is stored. The 'PRI1' or 'PRI2' icon will now be visible whenever that channel is selected.

NOTE: The Priority channel can also be set through the Menu.

To recall a priority channel:

Briefly press the **PRI** key for Priority Channel 1 or the assigned **XRS** key for Priority Channel 2. The radio will immediately switch to the Priority channel and the 'PRI1' or 'PRI2' icon will be displayed.

NOTE: If the radio was scanning when the Priority channel was recalled, the scan will be cancelled.

POWER SAVING

The Power Saving function is designed to conserve power and extend the battery life by letting the radio sleep during periods of inactivity. If you intend to use your XRS Connect radio for long periods of time between charges you should consider using the power saving mode.

The Power Saving option is switched off by default.

To select the Power Saving options:

- 1. Press the **MENU** key.
- 2. Navigate to **RADIO SETTINGS > POWER SAVING.** You can use the for **V** key to select the desired power saving level.
 - Select OFF to switch the Power Saving function off. The radio will remain active at all times and will draw the most amount of power from the battery.
 - Select LOW to enable the Power Saving function at a conservative setting. The radio will sleep during periods of inactivity but will respond quickly to incoming signals.
 - Select HIGH to enable the Power Saving function at a more aggressive setting. The radio will conserve the most amount of power but may not be as responsive to incoming signals.

SCANNING

Your radio incorporates a scan function allowing selected groups of channels to be scanned for signals. CB channels can be scanned at a rate of 50 channels per second.

When a signal is found, scanning will pause to allow the signal to be heard then resume scanning when the channel is clear again.

SCAN GROUPS

Your radio supports three scan groups:

- **Open Scan:** Allows you to sequentially scan from 2 to 80 user-selectable CB channels.
- Priority Scan: Allows you to regularly monitor your priority channel while scanning a group of user-selectable CB channels.
- Network Scan: Allows a group of radio users to maintain communications even when the band is congested by monitoring a small group of user selectable channels. If the operating channel becomes busy with users from outside your group, Net-Scan will automatically select a new free channel from the scan group and transparently switch all users in your group to the new channel.

To select open scan/priority scan/network scan:

- 1. Press the **MENU** key.
- 2. Navigate to SCAN SETTINGS > CB SCAN MEM

You can use the \bigwedge or \bigvee key to select the required scan option.

PROGRAMMING THE SCAN MEMORIES

Each Scan Group has its own separate channel memory allowing you complete freedom to program your choice of channels into each group.

To add/remove channels from the selected scan memory:

- 1. Select the required channel using the \bigwedge or \bigvee key.
- 2. Check to see if the 💽 icon is displayed on that channel.

- If S is displayed, the selected channel is already in the scan memory. To remove it, press and hold SCAN. A low beep will be heard and S will disappear.
- If S is not displayed, the selected channel is not in the scan memory. To add it, press and hold SCAN. A high beep will be heard and S will appear on that channel.

Repeat to add or remove other channels in the scan memory.

NOTE: When adding channels to Net-Scan, please consider the following:

- The transmitter on your radio is inhibited on channels 22, 23 and channels 61, 62, 63 as required by the ACMA. This makes these channels unsuitable for use as Net-Scan channels.
- You should not include any repeater channel unless you have confirmed that the channel is not allocated to repeaters in your area. Using an active repeater channel in Net-Scan may result in interference to repeater users on that channel.

AUTO SKIP

While scanning, if an active channel in your Scan Group becomes a nuisance by constantly interrupting the scan, briefly press \bigwedge or \bigvee while the radio is paused on that channel. The busy channel will be temporarily removed from the Scan Group to allow time for the channel to become clear again and scanning will continue from the next channel in the sequence. After 30 seconds the skipped channel will be reinstated in the scan sequence.

If the unwanted active channel continues to interrupt the scan even after the 30 second skip period has elapsed, hold **SCAN** while the radio is paused on that channel. The 'nuisance' channel will be completely removed from the Scan Group for the duration of that scan session. To restore the channel, simply stop and restart the scan session using the **SCAN** key (or switch the radio Off then On again).

NOTE: You can skip as many busy channels from the Scan Group as you wish, however if you attempt to skip the last remaining channel, all the previously skipped channels will be restored to the Scan Group.

The length of the skip period can be adjusted through the XRS Connect App.

DUAL WATCH

The Dual Watch mode allows you to monitor two channels at the same time. While in dual watch mode, the unit will monitor both the working channel and the last selected priority channel.

By default, the dual watch function is assigned to press function of the **XRS3** button.

To start the dual watch mode:

- 1. Use the \bigstar or \bigvee keys to choose the desired working channel.
- Press or hold (depends on how the key is configured for your radio) the assigned programmable Dual Watch key until the radio beeps.
- 3. 'DW' is displayed and the 💽 icon will animate.

You can change your working channel by pressing the \bigwedge or \bigvee keys.

To exit Dual Watch, press or hold your programmable button (depends on how the key is configured for your radio), or press the **SCAN** button.

TRIPLE WATCH

The Triple Watch mode allows you to monitor three channels at the same time. While in triple watch mode, the unit will monitor the working channel and both the priority channels.

You will need to assign one of the programmable **XRS** buttons to Triple Watch to use this feature.

To start the triple watch mode:

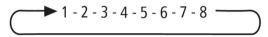
- 1. Use the \bigstar or \bigvee keys to choose the desired working channel.
- Press or hold (depends on how the key is configured for your radio) the assigned programmable key until the radio beeps.
- 3. 'TW' is displayed and the 💦 icon will animate.

You can change your working channel by pressing the igA or igV keys.

To exit Triple Watch, press or hold your programmable button (depends on how the key is configured for your radio), or press the **SCAN** button.

OPEN SCAN

Open Scan allows a group of channels to be scanned in an ascending sequence. If a signal is found, the scan will pause on that channel. During this time you can press the PTT on the microphone and talk on the channel. Once the channel has been clear for 5 seconds the scan will resume.



To select open scan:

- 1. Press the **MENU** key.
- 2. Navigate to SCAN SETTINGS > CB SCAN MEM.

You can use the \bigwedge or \bigvee key to select the required scan option.

In the Open Scan mode, your default working channel is the channel your radio switches to when you press the **PTT** while scanning. To set your working channel simply select the required channel before you press **SCAN**. E.g. to make channel 24 your working channel, simply select channel 24 before pressing **SCAN**.

To begin scanning:

Briefly press **SCAN**. A high beep will be heard, 'SCANNING' will be displayed and the **S** icon will animate. During this time the scan mode and the number of channels being scanned will be displayed along with the selected Zone.

If there are less than 2 channels programmed into the scan memory when you press **SCAN**, a low beep will be heard and the command will be ignored.

Operating in the Open Scan Mode

If a busy channel is found, scanning will pause to allow the signal to be heard and will remain there for as long as the channel remains busy. Once the channel has been clear for 5 seconds, scanning will resume automatically.

If you don't wish to listen to a busy channel, briefly press \bigwedge or \bigvee while the radio is paused on that channel. The busy channel will be temporarily removed from the Scan Group to allow time for the channel to become clear again and scanning will continue. The skipped channel will be reinstated in the scan sequence after 30 seconds (see Auto Skip).

If you press the **PTT** while the radio is scanning, the scan will pause and the radio will transmit on the working channel.

After the channel has remained clear for 5 seconds scanning will resume.

If your radio pauses on a busy channel and you wish to talk on that channel, wait for a break in the conversation then press the **PTT**. If the busy channel was not your working channel, it now becomes your working channel, replacing your previous working channel. Once your communication has finished and the channel has been clear for 5 seconds, scanning will resume.

If you need to use one of your Priority channels at any time, briefly press **PRI** for Priority Channel 1 or the **XRS** key assigned to Priority Channel 2. The scan will be cancelled and the radio will jump straight to the Priority channel.

PRIORITY SCAN

Priority Scan allows you to scan a number of channels for activity while also monitoring the last selected Priority channel. The receiver will scan the other channels only while there is no signal on the priority channel. If a signal appears on the last selected Priority channel it will override any signals being received on any of the other channels. In addition, if you press the PTT at any time, the radio will transmit on last selected the Priority channel.

Example: Scanning channels 1 – 8 with priority channel 20 in Priority Scan

NOTE: By default the priority channel will be scanned after every 5th scan channel. This timing can be adjusted using the XRS Connect App.

To select Priority Scan, refer to the Menu/Scan Settings options.

To begin scanning:

Briefly press **SCAN**. A high beep will be heard, 'SCANNING' will be displayed and the **S** icon will animate. During this time the scan mode and the number of channels being scanned will be displayed along with the selected Zone.

 If a signal appears on the Priority channel – at any time – the radio will switch directly to the Priority channel and will stay there for as long as the channel remains busy. During this time you can transmit and receive on the Priority channel.

Once the Priority channel has been clear for 5 seconds the radio will resume scanning the other channels.

 If a signal appears on any other channel, scanning will pause on that channel and will remain there while the channel is busy – as long as there are no signals on the Priority channel.

During this time, the receiver will continue to check the Priority channel every 2 seconds resulting in a series of small breaks in the reception. Once the signal has gone and there has been no activity for 5 seconds, the radio will resume scanning.

If the radio is paused on a busy channel and you want to remain there, briefly
press SCAN. The radio will exit scan and remain on the busy channel. At this
point you will no longer be monitoring the Priority channel.

To resume the Priority Scan, press **SCAN** again.

- If you don't wish to listen to a busy channel, briefly press the for very key while the radio is paused on that channel. The busy channel will be temporarily removed from the Scan Group to allow time for the channel to become clear again and scanning will continue. The skipped channel will be automatically reinstated in the scan sequence after 30 seconds (see 'Auto skip').
- To transmit on the Priority channel at any time, simply press the **PTT**. The radio will switch straight to the Priority channel.

When you have finished your conversation and there has been no further activity for 5 seconds, the radio will resume scanning the other channels.

If you need to use one of your Priority channels at any time, briefly press **PRI** for Priority Channel 1 or the **XRS** key assigned to Priority Channel 2. The scan will be cancelled and the radio will jump straight to the Priority channel.

NETWORK SCAN (NET-SCAN)

Net-Scan allows a group of radio users to maintain communications even when the band is congested.

To achieve this, all members of the Net-Scan group must share a common CTCSS/ DCS code and a common set of scan channels.

Once activated, Net-Scan's intelligent scanning software keeps track of clear channels within your Scan Group. When any member of the group first transmits, their radio automatically selects a clear channel to transmit on. Other radios scanning in the same Net-Scan group will detect the common CTCSS/DCS code and lock onto that channel allowing all members of the group to join the conversation.

If a signal from outside your Net-Scan group transmits on the selected channel without using your chosen CTCSS/DCS code, the group will automatically switch to a new clear channel at the next transmission. In this way the group can continue to communicate with minimal interference to or from other users.

To select network scan and a suitable CTCSS/DCS code:

- 1. Press the **MENU** key.
- 2. Navigate to **SCAN SETTINGS > CB SCAN MEM.**

You can use the \bigstar or \bigvee key to select the required scan option.

3. Select SCAN SETTINGS >NETSCAN SUBT.

You can use the \bigwedge or \bigvee key to select the desired subtone.

Using Net-Scan

With Net-Scan mode enabled, briefly press **SCAN**. A high beep will be heard, 'SCANNING' will be displayed and the scan mode and the number of channels being scanned will be displayed along with the selected Zone. When a member of the group initiates a transmission their radio will automatically select a clear Net-Scan channel to transmit on.

Other radios scanning in the same Net-Scan group will locate the transmission by identifying the groups CTCSS/DCS code, pause on that channel and open their Squelch, allowing the transmission to be heard across the entire group. When the transmission ends, all radios in the group will immediately resume scanning.

If a member of the group responds to the initial transmission, they will automatically re-use the same channel as long as the channel remains free of other signals. This allows the radios in the group to respond more quickly to further transmissions from others in the group.

If at any time a signal from outside your Net-Scan group transmits on the selected channel without using your chosen CTCSS/DCS code, the channel will be discarded and a new clear channel will be selected at the next transmission. The other radios in the group will then relocate to the new channel allowing the conversation to continue seamlessly without any input from the user.

Ending the Scan

To stop scanning, briefly press **SCAN**. A low beep will be heard and the **S** icon will stop animating. As long as the radio was not on a busy channel, it will return to the last channel you selected, otherwise it will stay on the busy channel.

CTCSS AND DCS

The standard Squelch system operates solely on signal strength which means that it will open to any signal that is strong enough. If the selected channel is busy with other stations the Squelch will be opening constantly making it difficult to determine which calls are meant for you.

CTCSS (Continuous Tone Coded Squelch System) and DCS (Digital Coded Squelch) are similar Squelch quieting systems that provide selective audio muting using sub-audible signalling. When CTCSS or DCS is enabled, only signals with a matching subtone will be heard in the speaker. This effectively creates a channel that is silent to all traffic except those you wish to hear.

CHOOSING CTCSS OR DCS

The CTCSS system uses 1 of 50 low frequency tones to open and close the Squelch on the radio. The DCS system is similar to CTCSS but uses 1 of 104 digital codes to control the Squelch. There is no difference in performance or function between CTCSS or DCS so choosing which system to use will largely depend on the other radios you talk with. If others already use CTCSS or DCS, you should select the system that matches theirs. If the users you talk to don't currently use CTCSS or DCS then you can make your own choice. Both types are included in the radio to maintain compatibility with other radio systems.

CTCSS TONE SET COMPATIBILITY

The GME CTCSS tone set comprises 50 tones made up of the standard CCIR-38 Tone Set plus an additional 12 tones added to the end. If communicating with other brands of radios that only use the CCIR-38 tone set, please select from one of the first 38 tones to ensure compatibility with these radios.

If communicating with other GME radios, you may choose from any of the 50 tones. However, to ensure compatibility, please refer to the tone set table listed in each radio's Instruction manual because the tones used in older GME models may be listed in a different order to those in your radio.

To select a CTCSS or DCS code, refer the Menu/Radio Settings options.

ENABLING CTCSS/DCS ON A CHANNEL (SILENT MODE)

Enabling CTCSS/DCS on a channel will prevent the Squelch from opening on that channel unless the incoming signal matches your selected CTCSS/DCS tone. Other users on the same channel who are not using your CTCSS/DCS tone will still be received by your radio (the **(**) icon will still appear on the display) but they will not be heard in the speaker.

Only when someone transmits on the channel using your CTCSS/DCS tone will the Squelch open to allow the signal to be heard. Channels where CTCSS/DCS have been enabled are said to be in 'Silent mode'.

NOTE: Silent mode can be enabled on any channel except emergency channels 5 and 35.

To enable silent mode on a channel:

- 1. Press the **MENU** key.
- 2. Navigate to FUNCTIONS > TOGGLE SILENT.
- 3. Press the MENU key to select ON.

An **S** icon (CTCSS) or **S4** icon (DCS) will be displayed at the top of the display to indicate Silent mode is now enabled on that channel.

NOTE: You cannot enable Silent mode unless a CTCSS or DCS tone has been selected in the 'RADIO SETTINGS' menu. If CTCSS/DCS has been set to OFF, Silent mode is inhibited.

To disable silent mode on a channel

- 1. Press the **MENU** key.
- 2. Navigate to FUNCTIONS > TOGGLE SILENT.
- 3. Press the MENU key to select OFF.

The ${f S}$ icon (CTCSS) or ${f S}$ icon (DCS) will be disappear from the display to confirm Silent mode is now disabled on that channel.

NOTE: When Silent mode is enabled on a channel you should always check the icon for signs of traffic on the channel before transmitting to ensure you do not accidentally transmit over the top of another user. Alternatively, you can enable Busy Lockout in the menu which will automatically prevent your radio from transmitting if the channel is already in use.

BUSY LOCKOUT

When using Silent mode with CTCSS/DCS, your radio's receiver remains quiet to all signals outside your CTCSS/ DCS group. As a result, if you do not notice when others are transmitting on your channel you could accidentally transmit over the top of them.

The Busy Lockout function detects when others outside your CTCSS/DCS group are transmitting on the channel and prevents your radio from transmitting over them. If you press the PTT when the channel is busy the radio will emit a warning beep and the *rest* icon won't be displayed. If this happens, look for the *rest* icon on the display as an indicator that the channel is in use. If the channel is busy, simply wait until the channel is clear and press the PTT again.

To enable or disable busy lockout:

- 1. Press the **MENU** key.
- Navigate through the menu to select RADIO SETTINGS > BUSY LOCK.

Use the MENU key to turn the function ON or OFF.

NOTE: A 'Busy Lockout Override with CTCSS Match' option is available through the XRS Connect App. When this option is enabled, Busy Lockout will not prevent you from transmitting over the top of another signal where their CTCSS/DCS code matches yours (i.e. The signal is from a member of your group).

SELECTIVE CALLING

Your radio has a Selective Calling system known as SelCall that operates like a telephone. Your radio is pre-programmed with its own unique SelCall Identification number. If this number is called by another radio, your radio will beep to alert you. If you do not want to hear any other activity while waiting on a channel, you can select the QUIET mode. Your radio will then remain quiet to all incoming signals until your SelCall number is called.

You can store up to 20 of your most frequently called SelCall numbers in memory and each number can be labelled for easy identification.

SELCALL IDENTIFICATION NUMBER

Your radio is factory programmed with its own unique SelCall Identification Number. This number identifies your radio from others in your area. Your radio's own SelCall Ident will be displayed for a few seconds to the lower-left of the display when you first turn the radio on. You will need to make your Ident known to anyone who may need to call you using SelCall.

NOTE: Although your radio is factory-programmed with a unique SelCall Ident, you can change your Ident to another number if required, using the Menu/Selcall option.

SELCALL NAMING

When storing SelCall numbers, you can add names to each one to make it easier to identify whose number you are recalling. In addition, if an incoming SelCall matches one of your stored numbers, the name will be displayed to identify the caller.

THE QUIET MODE

Your radio can be set to monitor signals on a busy channel but remain Quiet unless it receives its own SelCall Ident.

In this way, you won't be disturbed unless someone calls you. When your SelCall Ident is received, the Quiet mode is deactivated and an alarm sounds to alert you to the call. You can then converse normally on the channel.

NOTE: The QUIET mode overrides the normal active mute system to ensure that the radio remains quiet even when the channel is busy. When QUIET is set, you may see the () icon appear on the display indicating the channel is being used. However, unless someone transmits your SelCall Ident, nothing will be heard in the speaker.

You can activate the QUIET mode on individual channels (i.e. Some channels can be set to remain Quiet while others can remain open to all incoming signals) by storing those channels into a Quiet Memory.

SENDING A SELCALL

To send, program or change a SelCall number:

- 1. Press the **MENU** key.
- 2. Navigate to SELCALL.

RECEIVING A SELCALL

When your radio receives its own SelCall number, the victor will appear along with the caller's SelCall number and name and the radio will sound an alarm to alert you to the call. During this time the alarm will beep urgently and the Quiet mode (if enabled) will open to allow incoming calls to be heard. After 30 seconds, if the call is not answered, the alarm will slow and the Quiet mode will be reactivated. The alarm will then continue to beep slowly until you cancel it.

To cancel the alarm and talk on the channel:

Press the **PTT** and talk in the usual way. The alarm will be canceled, the display will return to normal and the channel will be open for normal communication.

To clear the alarm completely:

Briefly press **BACK**. The alarm will be canceled and the display will return to the normal screen.

QUIET MODE

The Quiet mode mutes the receiver to prevent incoming signals from being heard in the speaker until your SelCall Ident is received. In this way you can monitor a busy channel for personal calls without being disturbed by unwanted signals. If your SelCall number is received, the Quiet mode is cancelled and all incoming signals are heard in the speaker.

Setting up the Quiet mode

To setup the Quiet mode you must first store the individual channels that you want to stay quiet into the Quiet memory. When the required channels are stored, simply activate the Quiet mode and all stored channels will remain quiet to all incoming signals unless your SelCall Ident is received.

Channels not stored in the Quiet memory will remain open to all signals and will operate normally.

To store individual channels into quiet memory:

- 1. Select the required channel.
- 2. Press the **MENU** key.
- 3. Navigate to **FUNCTIONS > TOGGLE Q MEM.**

You can use the **MENU** key to turn the function **ON** or **OFF.**

When Quiet memory is switched **ON** on the selected channel, \mathbf{Q} will appear at the top of the display indicating the selected channel is now stored in the Quiet memory.

When Quiet memory is switched ${\sf OFF}$ on the selected channel, ${f Q}$ will disappear from the display indicating the channel is no longer stored in the Quiet memory.

Activating the Quiet mode

1. Select a channel that has been stored in the Quiet memory. ${f Q}$ will be displayed.

NOTE: You cannot activate the Quiet mode unless you have selected a stored channel.

- 2. Press the **MENU** key.
- 3. Navigate to **FUNCTIONS > TOGGLE QMode.**
- 4. Press the **MENU** key to select from the **ON** or **OFF** options.

When Quiet mode is switched ON, **Q** will appear at the top of the display indicating that Quiet operation is enabled. Now, all channels stored in the Quiet memory will operating in the Quiet mode.

When Quiet mode is switched OFF. (will disappear from the display indicating that Quiet operation is disabled. Now, all channels stored in the Quiet memory will be open for signals.

Receiving signals in the Quiet mode

- If a normal signal is received on a Quiet channel, the channel will appear busy (the) icon will be visible) but no sound will be heard from the speaker.
- If a normal signal is received on an Open channel (one that is not in the Quiet memory) the signal will be heard in the usual way.
- If your SelCall Ident is received on any channel Open or QUIET the Quiet mode will be cancelled and the alarm will beep to alert you to the call. In addition, the caller's name and number will be displayed. All channels will now be open for normal transmission and reception.

Scanning in the Quiet mode

The radio will allow you to scan while the QUIET mode is active. Using this feature you can monitor a group of Quiet channels or a combination of Quiet and Open channels.

NOTE: To ensure reliable SelCall detection when scanning in the Quiet mode, it is recommended that you restrict the number of channels in the Scan Group.

GROUP CALLING

The SelCall system includes a Group Call function that allows you to call up to 1000 radios simultaneously. This can be useful in an emergency situation where you may need to transmit a message to a large number of radios in your group.

By default, your radio is factory-set to allow up to 10 radios to be called at once. If your application requires more, your dealer can re-program this option to allow 100 or even 1000 radios to be called. The following description assumes the default Group Call setting of 10 radios.

The Group Call function works by allowing you to enter a special 'group code' into the last digit of the SelCall number you are sending. The 'group code' appears as an 'A' (All) when displayed in the radio. When this 'group code' is received, it substitutes for all other numbers in that position. As long as the first 4 digits of the SelCall you are sending match those of the radios you are calling, their SelCall alarm will be activated as if their full 5 digit SelCall Idents had been received.

To achieve this, the 10 radios you are calling have sequentially numbered SelCall Idents.

e.g. 14530, 14531, 14532, 14533, 14534, 14535, 14536, 14537, 14538, 14539

Transmitting the SelCall Ident 14531 will only activate the alarm in the radio with the SelCall Ident of 14531. However, transmitting 1453A will activate the alarms in all radios with Idents 14530 through 14539 (a total of 10 radios).

If the radios in your fleet do not have sequential SelCall number and you want to make use of this function, you will need to re-program the SelCall Idents in your radios by changing the numbers in your radio's 'OWN' SelCall memory.

The process for entering a Group Call Ident is the same as entering a normal SelCall Ident.

- 1. Press the **MENU** key.
- 2. Navigate to SELCALL > MAKE SELCALL
- 3. Use the \bigwedge or \bigvee keys to change the digit at the cursor position. Press **MENU** to step forward to the NEXT digit position or **BACK** to step back to the previous digit position.
- Repeat until the first 4 digits have been entered. At the last digit use the ∧ or ∨ keys to select 'A'.
- 5. Hold **MENU** to send.

The 🖊 icon will be display as the SelCall is transmitted.

NOTE: Where your radio allows it, programming Group Calls for 100 radios is identical except that you will need to select 'A' for the last two digits (e.g. 123AA). For 1000 radios you will need to select 'A' for last three digits (e.g. 12AAA).

CALL ACKNOWLEDGE IN GROUP MODE

There is no Call Acknowledge when sending Group Calls. This is to prevent all the radios in your group from trying to respond to your SelCall transmission at the same time.

STORING GROUP CALL IDENTS

Group Call Idents can be stored in memory in the same way as a standard SelCall Ident.

RECEIVING GROUP CALLS

Receiving a Group Call is identical to receiving a normal SelCall except that the alarm sound is a LOW tone beep instead of the normal High tone beep. The caller's name and number is displayed in the usual way.

MENU

MENU NAVIGATION

The Menu provides access to all the settings, adjustments and functions listed in the table below. All menu items are controlled using the **MENU**, \mathbf{M} , \mathbf{W} and **BACK** keys.

- 1. To access the menu, press the **MENU** key.
- 2. To scroll through the list of menu items press the \bigwedge or \bigvee keys.
- 3. To select an item, press the **MENU** key.
- 4. To step back through the menu, or to exit the current screen, press the **BACK** key.
- 5. To exit the menu completely press and hold the **BACK** key.

CONTEXT MENU

A context menu is included at the bottom of some screens. The options offered will change depending on the selected topic.

Press: <OPTION> = Briefly press the **MENU** key to select the option.

Hold: <OPTION> = Press and hold the **MENU** key to select the option.

CONTEXT MENU EXAMPLES



Press:next = Press **MENU** for NEXT Hold:call = Hold **MENU** for CALL

Press:next = Press MENU for NEXT

Hold:save = Hold MENU to SAVE

Press:edit = Press **MENU** for EDIT Hold:opts = Hold **MENU** for OPTIONS

TEXT ENTRY

When entering text (e.g. zone names or SelCall numbers), the following characters are available;

| Text | Available |
|-------------------|---|
| Uppercase Letters | A B C D E F G H I J K L M N O P Q R S T U V |
| | WXYZ |
| Lowercase Letters | abcdefghijklmnopqrstuvwxyz |
| Numbers | 0 1 2 3 4 5 6 7 8 9 |
| Punctuation | . * + <space></space> |

MENU TABLE

| Menu | Options | Option Settings |
|--------------|---|--|
| BLUETOOTH | Bluetooth Paired Devices Visible Devices | On/Off |
| FUNCTIONS | Toggle Q Mem Toggle Q Mode Toggle Scan Toggle Silent | On/Off |
| PROG BUTTONS | XRS1 Button Press XRS1 Button Hold XRS2 Button Press XRS2 Button Hold XRS3 Button Press XRS3 Button Hold | Display Dim Cycle Scan CH Cb Scan Memory Duplex Mem Silent Mem Quiet Mem Quiet Mode Scrambler Squelch Squelch Level Selcall Selcall Resend Pri2 Set Pri2 Recall Voice Playback Active Mute Dual Watch Triple Watch Triple Watch Vox Show Location Cycle Tx Power Key Lock Zones |

| Menu | Options | Option Settings |
|----------------|------------------------|-----------------|
| RADIO SETTINGS | Busy Lockout | On/Off |
| | CB Subtone | CTCSS/DCS Tones |
| | Country | AU/NZ |
| | Dynamic Volume Control | On/Off |
| | Equaliser | |
| | Mic Gain | +0db To +9db |
| | BT Mic Gain | +0db To +9db |
| | RX Noise Red | Off/1/2/3 |
| | TX Noise Red | Off/1/2/3 |
| | Power Saving | Off/Low/High |
| | Priority Ch1 | CB01 to CB80 |
| | Priority Ch1 | CB01 to CB80 |
| | Roger Beep | On/Off |
| | Scrambler | On/Off |
| | Speaker | Radio/Ext/Both |
| | Squelch Level | 1 to 9 |
| | Squelch Tail | On/Off |
| | Selcall Ack | On/Off |
| | TX Power | 5w/1w/0.1w |
| | VOX | |
| | Versions | Model |
| | | Serial # |
| | | Firmware |
| | Reset Settings | Cancel |
| | | Reset Radio |
| | | Factory Set |

| Menu | Options | Option Settings |
|-------------------------------|---|--|
| SCAN SETTINGS | CB Scan Mem | A Open Scan B Priority Scan C Network Scan |
| | Netscan Subt | CTCSS/DCS |
| SELCALL | Make Selcall Last Own Memory – 20 | |
| USER INTERFACE | Beep Volume Brightness Display Dims Display Info | 0 to 10 0 to 10 5 to 120s S-Met/S-Lin/Volts/None |
| XRS FEATURES > ACTIVE MUTE | Mute Timeout | None – 180 Min; '30 Min' is the default option |
| | Reduce Volume | Mute, 75%, 50%, Or 25% Reduction in current volume; 'mute' is the default option |
| XRS FEATURES | Enable | On/Off |
| | Group Number | 1 to 60 |
| XRS FEATURES | Location TX | On/Off |
| > LOCATION SERVICES | GPS Power | On/Off |
| | LOC Source | GPS/App+ |
| | Set ID/Status | User ID/Status |
| | LOC Timeout | None – 180 Min; '30 Min' is the default option. |
| | MIC Display | LOC/Txt/Off |
| | GPS Display | On/Off |
| | GPS Assist | On/Off |

| Menu | Options | Option Settings |
|-------------------------------|--|--|
| XRS FEATURES | Selcall UID | On/Off |
| > LOCATION SERVICES | TX Data Limit | On/Off |
| JERVICES | Show Own LOC | Latitude Longitude Elevation |
| XRS FEATURES | Enable | On/Off |
| > VOICE PLAYBACK | Clear All | - |
| PLATBACK | Playback | - |
| XRS FEATURES > ACTIVE MUTE | Mute Timeout | None – 180 minutes; '30 minutes' is the default option |
| | Reduce Volume | Mute, 75%, 50%, Or 25% Reduction in current volume; 'mute' is the default option |
| ZONES | Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 6 Zone 7 Zone 8 | Go/Edit |

FUNCTIONS

The Function option allows you to set the state of several functions related to Scan, SelCall and CTCSS/DCS.

- 1. Press the **MENU** key.
- 2. Navigate to FUNCTIONS.
- 3. Use the \bigwedge or \bigvee keys to select from one of the options below;
 - TOGGLE 'Q' MEM: Store channels in the SelCall Quiet memory.
 - TOGGLE Omode: Toggle Quiet mode for SelCall.
 - TOGGLE SCAN: Enable/Disable the Scan function.
 - TOGGLE SILENT: Toggle Silent mode for CTCSS/DCS channels. Press MENU to toggle the selected function ON or OFF.
- Press BACK to exit back to the previous menu or hold the BACK key to return to the main screen.

PROGRAMMABLE BUTTONS

The three buttons on the side of the radio near the PTT button, labelled **XRS1**, **XRS2**, and **XRS3** can be programmed with different functions using the radio menu or the XRS Connect app. A description of the functions that can be programmed to the radio can be found in the table below.

To assign functions to the programmable buttons:

- 1. Press the **MENU** key.
- 2. Navigate to PROG BUTTONS.
- 3. Use the \bigwedge or \bigvee keys to select the desired programmable button then press **MENU**.
- The XRS Button option list is displayed. The currently selected option is marked with a dot. Use the or keys to select to desired option then press MENU to select.
- 5. Press **BACK** to exit back to the previous menu or hold **BACK** to return to the main screen.

| Menu | Options | |
|-----------------|----------------|---|
| XRS1 | Display Dim | Dims the Display Backlight. |
| BUTTON PRESS | Cycle Scan Ch | Cycles through channels in the current scan memory. |
| XR51 | CB Scan Memory | Cycles through the three scan memories. |
| BUTTON HOLD | Duplex Mem | Toggles duplex mode on the current channel |
| XR52 | Silent Mem | Add/remove the current channel in Silent memory. |
| BUTTON PRESS | Quiet Mem | Add/remove the current channel in SelCall Quiet memory. |
| XR52 | Quiet Mode | Enables or disables SelCall Quiet mode. |
| BUTTON HOLD | Scrambler | Enables or disables the scrambler option. |
| | Squelch | Enables or disables the squelch. |
| XRS3 BUTTON | Squelch Level | Adjusts the preset squelch level in steps from 1 to 9. |
| PRESS | Selcall | Open SelCall menu. |
| XRS3 BUTTON | Selcall Resend | Automatically resends to the last SelCall ID you sent. |
| HOLD | Pri2 Set | Set the current channel as Priority Channel 2. |
| | Pri2 Recall | Recall Priority Channel 2. |
| | Zones | Displays the Zone list menu for quick zone selection. |
| | Voice Playback | Play back recorded transmissions. |
| | Active Mute | Mutes/reduces the volume of the radio/unmutes the radio, based on how the Active Mute feature is set. |
| | Dual Watch | Enable Dual Watch to monitor the current working channel and last selected Priority Channel. |
| | Triple Watch | Enable Triple Watch to monitor the current working channel and both Priority Channels. |
| | VOX | Enable VOX voice activated PTT. |
| | Show Location | Show current latitude, longitude and elevation. |
| | Cycle TX Power | Cycle through transmitter power levels. |
| | Key Lock | Lock or unlock radio keypad. |

RADIO SETTINGS

- 1. Press the **MENU** key.
- 2. Navigate to RADIO SETTINGS.
- 3. Use the \bigwedge or \bigvee keys to select from one of the setting options (see the options table below).
- To alter a value press MENU then use the or keys to adjust the value. Press MENU to accept. To toggle an ON/OFF setting, press MENU.
- 5. Press **BACK** to return to the previous menu or hold the **BACK** key to return to the main screen.

Radio Setting Options Table

| Menu | DESCRIPTION | OPTIONS |
|-----------------|--|---|
| BUSY LOCK | Disables the transmitter when the radio is busy to prevent you from transmitting over the top of other users | On/Off [Off] |
| CB SUBTONE | Switches the CTCSS or DCS tone Off or ON and sets the tone frequency. | Off [Off] CTC01 – CTC50 DT001 – DT104 |
| COUNTRY | Select the country in which the radio is being used. Used to highlight designated emergency channels with a yellow channel number. | AU/NZ [AU] |
| DYNAMIC VOL | Balances the volume level of incoming signals so that soft and loud signals have a similar volume. | On/Off [On] |
| EQUALISER | Four band graphic equalizer to customize the received audio | |
| MIC GAIN | Adjusts the microphone's sensitivity. Increase the gain for quiet voices. Decrease the gain for loud voices or for use in noisy environments. | +0db To +9db [+0db] |
| BT MIC GAIN | Adjusts the Bluetooth microphone's sensitivity. Increase the gain for quiet voices. Decrease the gain for loud voices or for use in noisy environments. | +0db To +9db [+0db] |
| RX NOISE RED | Select level of noise reduction applied to receive audio. | Off/1/2/3 [2] |
| TX NOISE RED | Select level of noise reduction applied to transmit audio. | Off/1/2/3 [2] |
| POWER SAVING | Select power saving level to conserve power and extend battery life. | Off/Low/High [Low] |
| PRIORITY CH1 | Sets the channel that is selected when the PRI key is pressed. | CB01 – CB80 [Cb01] |
| PRIORITY CH2 | Sets the channel that is selected when the PRI key is pressed. | CB01 – CB80 [Cb02] |
| ROGER BEEP | Automatically transmits a tone whenever the PTT is released. | On/Off [Off] |
| SCRAMBLER | Enables/Disables the Scrambler option | On/Off [On] |

| Menu | DESCRIPTION | OPTIONS |
|-------------------|---|-------------------------|
| SPEAKER | Selects which speakers are in use. Sounds can be heard through radio speaker only, microphone speaker only, or both speakers at once | Radio, Ext, Both [Both] |
| SQUELCH LEVEL | Adjusts the present squelch level. | 1 To 9 [2] |
| SQUELCH TAIL | Enables/Disables the squelch tail. When set to OFF the squelch tail is silent. | On/Off [On] |
| SELCALL ACK | Enables/disables automatic transmission of an acknowledge beep when your SelCall Ident is received. | On/Off [Off] |
| TX POWER | Select the transmitter output power. | 5w/1w/0.1w [5w] |
| vox | Enable VOX voice activated PTT. | On/Off [Off] |
| VERSIONS | Displays model number, serial number, and | Model |
| | firmware version. | Serial # |
| | | Firmware |
| RESET SETTINGS | Cancel: Exits without changes. Reset Radio: Restores the radio to its default settings (i.e Squelch level, beep level, Subtone, etc. but retains user data such as SelCall memories and Zones. Factory Reset: Restores the radio to its 'out-of-the-box' state. Deletes all user data and restores default settings. | |

AUDIO EQUALISER

The Equaliser function provides a four band graphic equaliser to customise the received audio characteristics.

To access the Equaliser function:

- 1. Press the **MENU** key.
- 2. Navigate to RADIO SETTINGS > EQUALISER.

To change Equaliser settings:

- 1. Use the \bigwedge or \bigvee keys to select the desired frequency band and press MENU.
- 2. Use the \bigwedge or \bigvee keys to set the desired level then press **MENU**.
- 3. Repeat for each frequency band.
- 4. Press **BACK** to exit.

SCAN SETTINGS

To select the current scan memory:

- 1. Press the **MENU** key.
- 2. Navigate to SCAN SETTINGS then press MENU to select.
- 3. Use the \bigwedge or \bigvee keys to select **CB SCAN MEM** then press **MENU**.
- Use the ▲ or ▼ keys to select from memory 'A', 'B' or 'C' then press MENU.
- 5. The default scan memory allocations are:
 - A Open Scan
 - B Priority Scan
 - C Net-Scan

To use Net-Scan you must also select a CTCSS or DCS subtone:

- 1. Use the \bigwedge or \bigvee keys to select **NETSCAN SUBT** then press **MENU.**
- 2. Use the \bigwedge or \bigvee keys to scroll through the list of sub-tones then press **MENU** to select.

NOTE: If you select Net-Scan as your CB Scan Memory without selecting a sub-tone, you will not be able to scan. Pressing the **SCAN** key will produce a low 'error' beep.

USER INTERFACE

- 1. Press the **MENU** key.
- 2. Navigate to USER INTERFACE.
- Use the or keys to select from one of the setting options (see the options table below).
- To alter a value press MENU then use the ▲ or V keys to adjust the value. Press MENU to accept. To toggle an ON/OFF setting, press MENU.
- 5. Press **BACK** to return to the previous menu or hold the **BACK** key to return to the main screen.

User Interface Options Table

| Menu | DESCRIPTION | OPTIONS |
|--------------|---|---------------------------------|
| BEEP VOLUME | Adjusts the volume of the key press beeps. | 0 to 10 [4] |
| BRIGHTNESS | Adjusts the display backlight brightness. | 0 to 10 [5] |
| DISPLAY DIMS | Adjusts the time before the display dims in seconds. | 5 to 120s [10s] |
| DISPLAY INFO | Displays the supply voltage level, or the signal strength meter reading (logarithmic/linear). | None / Volts / S-Lin / S-Met |

BLUETOOTH

BLUETOOTH

To enable/disable Bluetooth functionality:

- 1. Press the **MENU** key.
- 2. Navigate to BLUETOOTH.
- 3. Select BLUETOOTH and press MENU to select ON or OFF.

To pair to a nearby Bluetooth accessory:

- 1. Press the MENU key.
- 2. Navigate to **BLUETOOTH > VISIBLE DEVICES.**
- 3. Use the \bigwedge or \bigvee keys to select the desired accessory and press **MENU.**

- 4. Select **CONNECT** from the pop-up and press **MENU**.
- 5. On successful pairing a blue 🗱 icon will display next to the entry in the list.

To show a list of previously paired Bluetooth devices:

- 1. Press the **MENU** key.
- 2. Navigate to **BLUETOOTH > PAIRED DEVICES.**
- 3. Use the \bigwedge or \bigvee keys to move through the list. Currently connected devices show a blue [*] icon.
- 4. Select a device and press **MENU.** The pop-up allows you to:
 - Connect: Connect to a previously paired device (if it is available).
 - Disconnect: Disconnect from the currently connected device.
 - Unpair: Forget the Bluetooth device.
 - Rename: Rename the Bluetooth device.
 - Info: See details of the Bluetooth device.
- 5. A list of nearby Bluetooth devices will be displayed.

NOTE: If a connected Bluetooth device moves out of range or Is turned off, the radio will attempt to automatically re-connect when the device becomes visible again. Use the disconnect option above to prevent the radio from automatically re-connecting to the Bluetooth device.

SELCALL

SELCALL

- 1. Press the **MENU** key.
- 2. Navigate to SELCALL.
- 3. Use the \bigwedge or \bigvee keys to select the available options.
- Select MAKE SELCALL to enter and send a SelCall number.
- Select Last to resend or save the last SelCall number you sent.
- Select **Own** to edit your radio's own SelCall number.

 Continue scrolling downwards to access a further 20 user programmable SelCall memories.



MAKING A SELCALL

- 1. To enter and send a SelCall number, select **MAKE SELCALL** and press **MENU**.
- 2. Use the \bigwedge or \bigvee keys to change the digit at the cursor position.
- Press MENU to step forward to the NEXT digit position or BACK to step back to the previous digit position.
- 4. Continue until all 5 SelCall digits have been entered. Hold **MENU** to send.



RESENDING THE LAST SELCALL NUMBER

- 1. To resend the last Selcall number, use the \mathbf{A} or \mathbf{V} keys to select Last.
- 2. Hold **MENU** to send.

SAVING THE LAST SELCALL NUMBER

- 1. Use the \bigwedge or \bigvee keys to select Last.
- 2. Press MENU.
- 3. Use the \bigwedge or \bigvee keys to scroll down to an empty SelCall memory.

4. Press MENU.

The 'Edit Contact' screen is displayed and the SelCall number is automatically inserted into the contact.

- 5. Use the \bigwedge or \bigvee keys to change the character or the cursor position.
- Press MENU to step forward to the NEXT character position or BACK to step back to the previous character position.



Continue until the required name has been entered then hold $\ensuremath{\textbf{MENU}}$ to save the contact.

EDITING YOUR RADIO'S OWN SELCALL NUMBER

- 1. Use the \bigwedge or \bigvee keys to select **Own** then press the **MENU** key.
- The 'Edit Contact' screen is displayed and **Own** is displayed as the contact name with the cursor on the SelCall number.



- 3. Use the \bigwedge or \bigvee keys to change the number or the cursor position.
- Press MENU to step forward to the NEXT digit position or BACK to step back to the previous digit position.
- 5. Continue until the required name has been entered, then hold **MENU** to save the new number.

- 1. Use the \bigwedge or \bigvee keys to scroll to a SelCall memory location then press **MENU** to edit.
- Use the or keys to change the letter or number at the cursor position.
- 3. Press MENU to step forward to the NEXT character or digit position or the

BACK key to step back to the previous character or digit position.



- Continue until the required name and SelCall number has been entered then hold MENU to save the new number.
- 5. The radio returns to the previous screen and displays the new contact entry.

XRS FEATURES

There are four main feature options available under XRS Features:

- Location Services
- Voice Playback
- Active Mute
- Crew Talk

XRS LOCATION SERVICES

XRS Location Services allows the radio to broadcast its GPS location at the end of a normal voice transmission. The XRS-660 has a built-in GPS module to determine your current location. This feature can be used together with the XRS Connect app to see the location of other XRS Location Services users on your map.

You can select to display either @username, direction and distance or @username and #status for incoming transmission. This will be displayed on the screen.

GPS DATA ACQUISITION

When using the built-in GPS receiver of the XRS-660 to determine your location the radio will need to acquire a minimum of 3 satellites.

To acquire satellites, the radio will require a direct and clear view of the sky. Depending on a number of factors such as personal or vehicle location and surrounding obstacles, the time it takes to acquire a minimum of 3 satellites can vary from 1 to 5 minutes. For best results, ensure the radio has a clear view of the sky.

The XRS-660 will acquire satellites if **LOC SOURCE** is set to **GPS** or **App+**. If **LOC SOURCE** is **App+** the radio will prioritise the location data from the XRS Connect app if connected.

To enable/disable TX location transmit:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select LOCATION TX and press MENU to select ON or OFF.

To enable/disable internal GPS module:

- 1. Press the **MENU** key.
- 2. Navigate to **XRS FEATURES > LOCATION SERVICES.**
- 3. Select GPS POWER and press MENU to select ON or OFF.

To select GPS location source:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select LOC SOURCE and press MENU.
- 4. Use the 🛦 or 💙 keys to select either GPS or App+ and press MENU.

To set the User ID and Status:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES > SET ID/STATUS
- 3. Use the \bigwedge or \bigvee keys to select either USER ID or STATUS and press MENU.

- 4. Use the \bigwedge or \bigvee keys to change the character at the cursor position.
- Press the MENU key to step forward to the NEXT character position or the BACK key to step back to the previous character position.
- Continue until the required name has been entered then hold MENU to save the User ID and Status.

To set location timeout:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES
- 3. Select LOC TIMEOUT and press MENU.
- 4. Use the \bigwedge or \bigvee keys to increase or decrease the location timeout then press **MENU**.

To set mic display:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select MIC DISPLAY and press MENU.
- 4. Use the \bigstar or \bigvee keys to select option then press **MENU**.

GPS Display

When the **GPS DISPLAY** setting is set to **ON**, GPS icon and number will be displayed on the radio. The number displayed represents the number of satellites acquired from 0 to 9 with a minimum of 3 required to transmit GPS data

To enable/disable GPS Display:

- 1. Press the **MENU** key.
- 2. Navigate to **XRS FEATURES > LOCATION SERVICES.**
- 3. Select GPS DISPLAY and press MENU to select ON or OFF.

GPS Assist

The **GPS ASSIST** function uses the radio's last known location to speed up location acquisition when the radio next turns on. The previous location data is valid for approximately 3 hours if the radio remains in the same location. The default setting for **GPS ASSIST** is **ON**.

To enable/disable GPS Assist mode:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select GPS ASSIST and press MENU to select ON or OFF.

To enable/ disable Sellcall UID:

- 1. Press the **MENU** key.
- 2. Navigate to **XRS FEATURES > LOCATION SERVICES.**
- 3. Select SELCALL UID and press MENU to select ON or OFF.

TX DATA LIMIT

By default, the **TX DATA LIMIT** is set to **OFF**, the radio will transmit its location data on every PTT, so long as more than 15 seconds have passed since the previous transmission.

When the **TX DATA LIMIT** setting is set to **ON**, this limits the number of location data packets that are transmitted per hour according to ACMA requirements, ensuring the allowable limit is not exceeded.

When the radio is ready to transmit its location, regardless of the **TX DATA LIMIT** setting, a small \P location marker icon will be shown on the icon bar at the top of the screen and informs the user by way of a warning message, "Location TX Limit" and an audible warning beep that the allowable limit has been exceeded.

To enable/ disable TX Data Limit:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select TX DATA LIMIT and press MENU to select ON or OFF.

To view GPS Location:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > LOCATION SERVICES.
- 3. Select **SHOW OWN LOC** and press **MENU** to display GPS Coordinates.

Location Services Options Table

| Menu | Description | Options |
|-----------------|---|--|
| LOCATION TX | Enables/disables whether the radio transmits location to other radios (same as share location in XRS Location Services app). | On/Off |
| GPS POWER | Enables/disables the radio's built-in GPS module | On/Off |
| LOC SOURCE | This setting allows you to select the source of location data. Select GPS to use radio internal GPS only, or App+ to use radio internal GPS or XRS Connect app if connected. | GPS/App+ |
| SET ID/STATUS | Customise the user ID and status that is transmitted. | User ID/Status |
| LOC TIMEOUT | This setting allows you to set the location timeout. The radio will not transmit locations with timestamps that are past the timeout specified in this setting. | None - 180 Minutes '30 Minutes' is the default option. |
| MIC DISPLAY | Loc= Microphone will display @ username direction and distance for incoming transmission. Txt=Mic will display @username and #status for incoming transmission. Off=No display. | Loc/Txt/Off |
| GPS DISPLAY | Displays either a '0' for no GPS signal or the number of GPS satellites acquired. | On/Off |
| GPS ASSIST | Use last known location data to speed up location acquisition when radio is turned on. | On/Off |
| SELCALL UID | Turn on to include the radio's SelCall ID in the location data sent. | On/Off |
| TX DATA LIMIT | Allows you to select if data transmission occurs with every PTT or once every 30 seconds. | On/Off |
| SHOW OWN LOC | Displays GPS Coordinates as a longitude and latitude plus elevation | Longitude/Latitude/ Elevation |

VOICE PLAYBACK

You can enable this feature to allow the radio to record voice transmissions that it receives from other radios, and then playback recorded transmissions. The following are the basic functionalities of the Voice Playback feature:

- Records the first 30 seconds of every transmission received by your radio.
- Stores a total of 12 minutes of recordings (combined time of all recordings).
- When playback begins, the radio begins with the most recent recording. If you scroll back through the list to an older recording, it will play that recording and then work its way through the list to the most recent recording. You can use the up/down keys to scroll through the list of recordings.
- On selecting each recording, the radio's screen displays the following:
- Name of the recording.
- Elapsed time since the recording was made (If the radio is switched off, this
 information will be no longer be available when the radio is switched on).
- The CB channel on which the recording was made.
- Recording also works when the radio is in the Active Mute mode.

To enable the voice playback feature:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > VOICE PLAYBACK.
- 3. Select ENABLE and press MENU to select ON or OFF.

To playback voice recordings:

When navigating from the main menu:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > VOICE PLAYBACK.
- 3. Select **PLAYBACK** and press **MENU** to play back recorded audio.

Alternatively, you can assign the Voice Playback feature to one of the programmable **XRS1**, **XRS2** or **XRS3** keys. When the key is pressed, it will begin playback. To exit the voice playback feature, press the **BACK** key. Pressing one of the Priority channel recall keys or **PTT** key will also immediately exit the voice playback feature.

To clear all recordings:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > VOICE PLAYBACK.
- 3. Select **CLEAR ALL** and press **MENU** to clear all recordings.

This selection erases all recordings from the radio.

Voice Playback Options Table

| Menu | Options | |
|-----------|--|--------|
| ENABLE | Enables the radio to record voice transmissions that it receives from other radios, and playback recorded transmissions. | On/Off |
| CLEAR ALL | Clears all the existing voice recordings. | - |
| PLAYBACK | Plays back the recorded voice transmissions, beginning with the most recent recording. | - |

ACTIVE MUTE

This feature of the XRS Connect app mutes the XRS Connect radio on phone call, and unmutes the radio at the end of the phone call. You can assign the Active Mute feature to any of the radio's programmable buttons.

To turn on/off active mute in the XRS Connect app:

- 1. Open the XRS Connect app.
- 2. Tap \blacksquare to display the left navigation menu.
- Tap the Active Mute slider to turn on/off. When the slider turns green, the active mute feature is on.

To navigate to the Active Mute feature on your radio:

- 1. Press the **MENU** key.
- Navigate through the following selections: XRS FEATURES > ACTIVE MUTE.

Active Mute Options Table

| Menu | Options | |
|------------------|--|--|
| MUTE TIMEOUT | You can select the Mute Timeout feature to set a time period after which the radio unmutes. Alternatively, you can use the assigned programmable key, or change volume to exit the mute mode. | None - 180 minutes; '30 minutes' is the default option. |
| REDUCE VOLUME | Reduces the volume of the radio. By default, the volume level is set to Mute. | Mute, 75%, 50%, or 25% reduction in current volume; 'Mute' is the default option. |

CREWTALK

CrewTalk is a new XRS feature that allows you to automatically configure pre-defined Net-Scan lists. As with regular Net-Scan, the benefit is that a group of users can have communications with far less chance of being blocked by outsiders, or hearing unwanted transmissions from outsiders.

To enable/disable CrewTalk and select a CrewTalk group:

- 1. Press the **MENU** key.
- 2. Navigate to XRS FEATURES > CREWTALK.
- 3. Select ENABLE and press MENU to select ON or OFF.
- 4. Select **GROUP NUMBER** and press **MENU**.
- 5. Use the \bigwedge or \bigvee keys to select a Group Number and press **MENU.**

When CrewTalk is configured, normal scan functionality is overridden. Whenever scanning is started by pressing the **SCAN** button, CrewTalk will be active. The radio display will indicate that XRS CrewTalk scan is active, and indicate the Group number that is being used. If other radios in the group are configured to enable CrewTalk with the same Group number, and they are scanning, the radios in the group can communicate with limited outsider interference, using Net-Scan in a transparent way.

CrewTalk Frequency and Subtone Table

| | Channels | | | | | |
|----------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Subtones | CB12 CB13 CB14 CB15 CB16 | CB24 CB25 CB26 CB27 CB28 | CB49 CB50 CB51 CB52 CB53 | CB54 CB55 CB56 CB57 CB58 | CB59 CB60 CB64 CB65 CB66 | CB67 CB68 CB69 CB70 CB79 |
| 40 | Group 1 | Group 11 | Group 21 | Group 31 | Group 41 | Group 51 |
| 41 | Group 2 | Group 12 | Group 22 | Group 32 | Group 42 | Group 52 |
| 42 | Group 3 | Group 13 | Group 23 | Group 33 | Group 43 | Group 53 |
| 43 | Group 4 | Group 14 | Group 24 | Group 34 | Group 44 | Group 54 |
| 44 | Group 5 | Group 15 | Group 25 | Group 35 | Group 45 | Group 55 |
| 45 | Group 6 | Group 16 | Group 26 | Group 36 | Group 46 | Group 56 |
| 46 | Group 7 | Group 17 | Group 27 | Group 37 | Group 47 | Group 57 |
| 47 | Group 8 | Group 18 | Group 28 | Group 38 | Group 48 | Group 58 |
| 48 | Group 9 | Group 19 | Group 29 | Group 39 | Group 49 | Group 59 |
| 49 | Group 10 | Group 20 | Group 30 | Group 40 | Group 50 | Group 60 |

RECEIVE-ONLY CHANNELS (ZONES)

Your XRS Connect radio can store up to 400 user-programmable receive-only channels within the frequency range of 403 MHz to 520 MHz. Channels are stored in one of 8 zones with each zone containing up to 50 channels. Zones and channels can each be individually named for easy identification.

Programming is done either through the radio menu or through the GME XRS Connect App. The XRS Connect App also offers a range of pre-programmed frequencies in various categories sorted by locations making the selection of suitable channels and frequencies much easier.

When a Zone is selected, its frequencies will be added to the standard 80 CB channels. Zone channels appear immediately above CH80. After the last zone channel is selected channels will wrap around to CH01 again.

CB01 - CB80 - ZONE CHANNELS -

SELECT A ZONE

- 1. Press the **MENU** button.
- 2. Select **ZONES** and press **MENU**.
- 3. Select the desired zone from the Zone list.
- 4. Press MENU.

EDIT A ZONE NAME

- 1. Press the **MENU** key.
- 2. Select **ZONES** and press **MENU**.
- Select the desired Zone from the Zone list. To edit the zone, hold the MENU key. The zone edit screen appears.
- 4. Press **MENU** to edit the zone name.
- 5. Use the \bigwedge or \bigvee keys to change the character at the cursor position.

- Press the MENU key to step forward to the NEXT character position or the BACK key to step back to the previous character position.
- 7. Continue until the desired name has been entered. Zone names can be up to 16 characters long.



8. To save the name hold the **MENU** key.



The radio will return to the Zone list with the new zone name displayed.

The radio returns to the main screen with the selected zone displayed below the channel number.

All channels in the selected zone will now be available along with the usual 80 CB channels. Zone channels can be found immediately above CB Channel 80.

ADD CHANNELS TO A NEW ZONE

- 1. Press the **MENU** key.
- 2. Select **ZONES** and press **MENU**.
- 3. Select the desired Zone from the Zone list and hold **MENU** to edit the zone.

- 4. Hold **MENU** to select Options.
- 5. Use the \bigwedge or \bigvee keys to select **ADD CHANNEL** from the menu list.
- 6. Press **MENU** to edit the new channel.



- 7. Use the \bigwedge or \bigvee keys to change the character at the cursor position.
- Press MENU to step forward to the NEXT character position or the BACK key to step back to the previous character position.
- When the desired name has been entered, press the MENU key repeatedly to step to the RX frequency. Channel names may contain up to 16 characters.



10. To save the new channel, hold **MENU**.



The display returns to the Zone screen.

EDIT EXISTING CHANNELS IN A ZONE

- 1. Press the **MENU** key.
- 2. Select **ZONES** and press **MENU**.
- 3. Select the desired Zone from the Zone list and hold **MENU** to edit the zone.
- 4. Use the \bigwedge or \bigvee keys to select a channel
- 5. Hold **MENU** for the Options menu.
- 6. Use the \mathbf{A} or \mathbf{V} keys to select from the options list them press **MENU**.
 - Select Go Channel to jump to the select channel
 - Select **Del Channel** to delete the selected channel
 - Select Add Channel to add a new channel
 - Select Edit to edit the selected channel



- 7. Next select MENU.
- 8. To add a new channel or EDIT an existing channel;
- Use the A or V keys to change the character or digit at the cursor position.
- Press MENU to step forward to the NEXT character or digit position or the BACK key to step back to the previous character or digit position.



- 11. Continue until the name or frequency has been edited.
- 12. Hold **MENU** to save.

The table that follows details the CTCSS tone frequencies of the XRS Connect radio.

| CTCSS Tone Frequencies | | | | | | | |
|------------------------|-----------|-----|-----------|-----|-----------|-----|-----------|
| No. | Frequency | No. | Frequency | No. | Frequency | No. | Frequency |
| 1 | 67.0 | 14 | 107.2 | 27 | 167.9 | 40 | 159.8 |
| 2 | 71.9 | 15 | 110.9 | 28 | 173.8 | 41 | 165.5 |
| 3 | 74.4 | 16 | 114.8 | 29 | 179.9 | 42 | 171.3 |
| 4 | 77.0 | 17 | 118.8 | 30 | 186.2 | 43 | 177.3 |
| 5 | 79.7 | 18 | 123.0 | 31 | 192.8 | 44 | 183.5 |
| 6 | 82.5 | 19 | 127.3 | 32 | 203.5 | 45 | 189.9 |
| 7 | 85.4 | 20 | 131.8 | 33 | 210.7 | 46 | 196.6 |
| 8 | 88.5 | 21 | 136.5 | 34 | 218.1 | 47 | 199.5 |
| 9 | 91.5 | 22 | 141.3 | 35 | 225.7 | 48 | 206.5 |
| 10 | 94.8 | 23 | 146.2 | 36 | 233.6 | 49 | 229.1 |
| 11 | 97.4 | 24 | 151.4 | 37 | 241.8 | 50 | 254.1 |
| 12 | 100.0 | 25 | 156.7 | 38 | 250.3 | - | - |
| 13 | 103.5 | 26 | 162.2 | 39 | 69.4 | - | - |

The table that follows details the DCS tones of the XRS Connect radio.

The table that follows details the UHF CB operating frequencies of the XRS Connect radio.

| UHF CB Operating Frequencies | | | | | | | |
|------------------------------|--------------------|----|--------------------|----|--------------------|----|---|
| СН | Frequency (MHz) | СН | Frequency (MHz) | СН | Frequency (MHz) | | |
| 1 | 476.425 | 28 | 477.100 | 55 | 476.7875 | | |
| 2 | 476.450 | 29 | 477.125 | 56 | 476.8125 | | |
| 3 | 476.475 | 30 | 477.150 | 57 | 476.8375 | | |
| 4 | 476.500 | 31 | 477.175 | 58 | 476.8625 | | Emergency use |
| 5 | 476.525 | 32 | 477.200 | 59 | 476.8875 | | only (Australia) |
| 6 | 476.550 | 33 | 477.225 | 60 | 476.9125 | | Telemetry / |
| 7 | 476.575 | 34 | 477.250 | 61 | 476.9375 | | Selcall use only. Voice |
| 8 | 476.600 | 35 | 477.275 | 62 | 476.9625 | | transmission |
| 9 | 476.625 | 36 | 477.300 | 63 | 476.9875 | | is inhibited as required by AS |
| 10 | 476.650 | 37 | 477.325 | 64 | 477.0125 | | NZS 4365.2011 |
| 11 | 476.675 | 38 | 477.350 | 65 | 477.0375 | | Guard band |
| 12 | 476.700 | 39 | 477.375 | 66 | 477.0625 | | channel. Transmission is inhibited as |
| 13 | 476.725 | 40 | 477.400 | 67 | 477.0875 | | |
| 14 | 476.750 | 41 | 476.4375 | 68 | 477.1125 | | required by AS |
| 15 | 476.775 | 42 | 476.4625 | 69 | 477.1375 | | NZS 4365.2011 |
| 16 | 476.800 | 43 | 476.4875 | 70 | 477.1625 | | Repeater input channels |
| 17 | 476.825 | 44 | 476.5125 | 71 | 477.1875 | | (Duplex) |
| 18 | 476.850 | 45 | 476.5375 | 72 | 477.2125 | | Repeater |
| 19 | 476.875 | 46 | 476.5625 | 73 | 477. 2375 | | output channe (Duplex) |
| 20 | 476.900 | 47 | 476.5875 | 74 | 477.2625 | | Officially |
| 21 | 476.925 | 48 | 476.6125 | 75 | 477.2875 | 11 | designated |
| 22 | 476.950 | 49 | 476.6375 | 76 | 477.3125 | | call channel |
| 23 | 476.975 | 50 | 476.6625 | 77 | 477.3375 | 40 | Road channel |
| 24 | 477.000 | 51 | 476.6875 | 78 | 477.3625 | | |
| 25 | 477.025 | 52 | 476.7125 | 79 | 477.3875 | 18 | Caravan and motor home |
| 26 | 477.050 | 53 | 476.7375 | 80 | 477.4125 | | |
| 27 | 477.075 | 54 | 476.7625 | | | 10 | 4WD / Off road |

SPECIFICATIONS

General

| Compliance: | AS/NZS 4365 for radio communications equipment in the UHF citizen band and personal radio service. |
|---------------------|--|
| | TX: 476.425 MHz – 477.4125 MHz |
| Frequency Range: | RX: 403 MHz – 520 MHz |
| Number of Channels: | 80 CB + 400 Receive only channels across 8 zones |
| Channel Spacing: | 12.5 kHz |
| Scanning Speed: | 50 Channels Per Second (20 ms per channel) |
| Antenna: | 50Ω, SMA Male |
| Supply Voltage: | 7.4 V DC |
| Battery Type: | Li-Ion |
| Battery Capacity: | 2550 mAh |

Battery Operating Time

| Radio Configuration: | Low Power Save, GPS + BT On | Low Power Save, GPS + BT Off | High Power Save, GPS + BT Off |
|-------------------------|--------------------------------|---------------------------------|----------------------------------|
| 5W | 20 Hours | 22 Hours | 22.5 Hours |
| 1W | 31 Hours | 33 Hours | 33.5 Hours |
| 0.1W | 48 Hours | 56.5 Hours | 64 Hours |

Transmitter

| R F Output: | High: 5W Low: 1W Ultra-Low: 100mW |
|---------------------------|---|
| Frequency Stability: | ± 2.5 PPM |
| Modulation: | FM |
| Spurious Emission: | < -40 dBm |
| Maximum Deviation: | ± 2.5 kHz |
| Modulation Distortion: | 0.4% @ 1kHz / 1.5kHz Deviation |

Receiver

| Coosibilitie | -122 dBm for 12 dB SINAD |
|----------------------------------|------------------------------|
| Sensitivity: | -122 dBm (450 MHz – 520 MHz) |
| Adjacent Channel Selectivity: | > 60 dB (NB) |
| Audio Output Power: | 2 W (8Ω) |
| Audio Signal to Noise: | 40 dB (SINAD) |

Mechanical And Environmental

| Dimensions | 59mm (W) x 42mm (D) x 137mm (H) (not including antenna) |
|--------------------------|---|
| Weight | 337 Grams (with battery and antenna) |
| Operating Temperature | -20° C to +60° C |
| Ingress Protection | IP67 (dust tight and waterproof) |
| Accessory Connector | GME Spring Loaded Connector |

GME CONTRACT WARRANTY AGAINST DEFECTS

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:

GME Pty Ltd. 17 Gibbon Rd, Winston Hills, NSW 2153, Australia. Tel: (02) 8867 6000 Fax: (02) 8867 6199. Email: servadmin@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 Standard Communications products.
 - (c) Repairs performed other than by our authorised representative.
 - (d) Defects or damage resulting from misuse, accident, impact or neglect.
 - 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 illegal.

4. Warranty period:

4.1 We provide the following warranty on GME 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 | | |
|-----------------------|-----------------|--|--|
| UHF CB RADIO | 5 Years | | |
| BATTERY & ACCESSORIES | 1 Year | | |



17 Gibbon Road, Winston Hills NSW 2153, Australia Part Number: 311188 Drawing Number: 53650-1