



TX6165

HANDHELD UHF CB RADIO – 5 WATT



INSTRUCTION MANUAL

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SAFETY INFORMATION

The TX6165 is a radio transmitting device.

- When transmitting, keep the antenna more than 25mm 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 Radio communications (Citizens Band Radio Stations) Class Licence and in New Zealand by the Ministry of Economic Development New Zealand (MED). A General User Radio Licence for Citizens Band radio and operation is subject to conditions contained in those licences. The class licence for users and equipment operating in the CB/PRS 477 MHz band has been amended. This radio meets the new 80 channel standard.

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

Older 40 channel wideband radios will continue to operate on the original 40 channels, however they will not be able to converse on the newer channels 41 – 80. The newer narrowband radios will be able to converse with all older 40 channel wideband radios on all channels 1 – 40 as well as the newer channels allocated from 41 – 80. The mixing of narrowband and wideband radios in the same spectrum can cause some possible operating issues of interference and varying levels of received volume.

POSSIBLE ISSUES

When a new narrowband radio receives a transmission from an older wideband radio the speech may sound loud and distorted – simply adjust your radio volume for best performance. When an older wideband radio receives a signal from a new narrowband radio, the speech may sound quiet – simply adjust your radio volume for best performance.

Depending on how close your receiving radio is to another transmitting radio, there can be interference from the transmitting radio if it is using a channel adjacent to the channel you are listening to. Simply try going 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. This possible interference will 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.

NOTE: 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.

ACCESSORIES SUPPLIED

TX6165

- 5 watt UHF CB Handheld Radio (TX6165X)
- 2600 mAh Li-ion Battery Pack (BP026)
- Desktop Charger (BCD020)
- IP67 Waterproof Speaker Microphone (MC011)
- Earpiece Style Microphone (HS015)
- 12V DC Vehicle Charger (BCV007)
- AC Adaptor (PS013)
- Belt Clip (MB060)

TX6165X

- 5 watt UHF CB Handheld Radio (TX6165X)
- 2600 mAh Li-Ion Battery Pack (BP026)
- Desktop Charger (BCD020)
- AC Adaptor (PS013)
- Belt Clip (MB060)

TX6165TP

- 2 x 5 watt UHF CB Handheld Radios (TX6165X)
- 2 x 2600 mAh Li-Ion Battery Packs (BP026)
- 2 x IP67 Waterproof Speaker Microphones (MC011)
- 2 x Ear-piece Style Microphones (HS015)
- Dual Desktop Charger (BCD021)
- Rugged Carry Case
- 12V DC Vehicle Charger (BCV007)
- AC Adaptor (PS013)
- 2 x Belt Clips (MB060)

NOTE: Instruction manuals are available online at <https://www.gme.net.au/manuals-and-brochures.aspx>

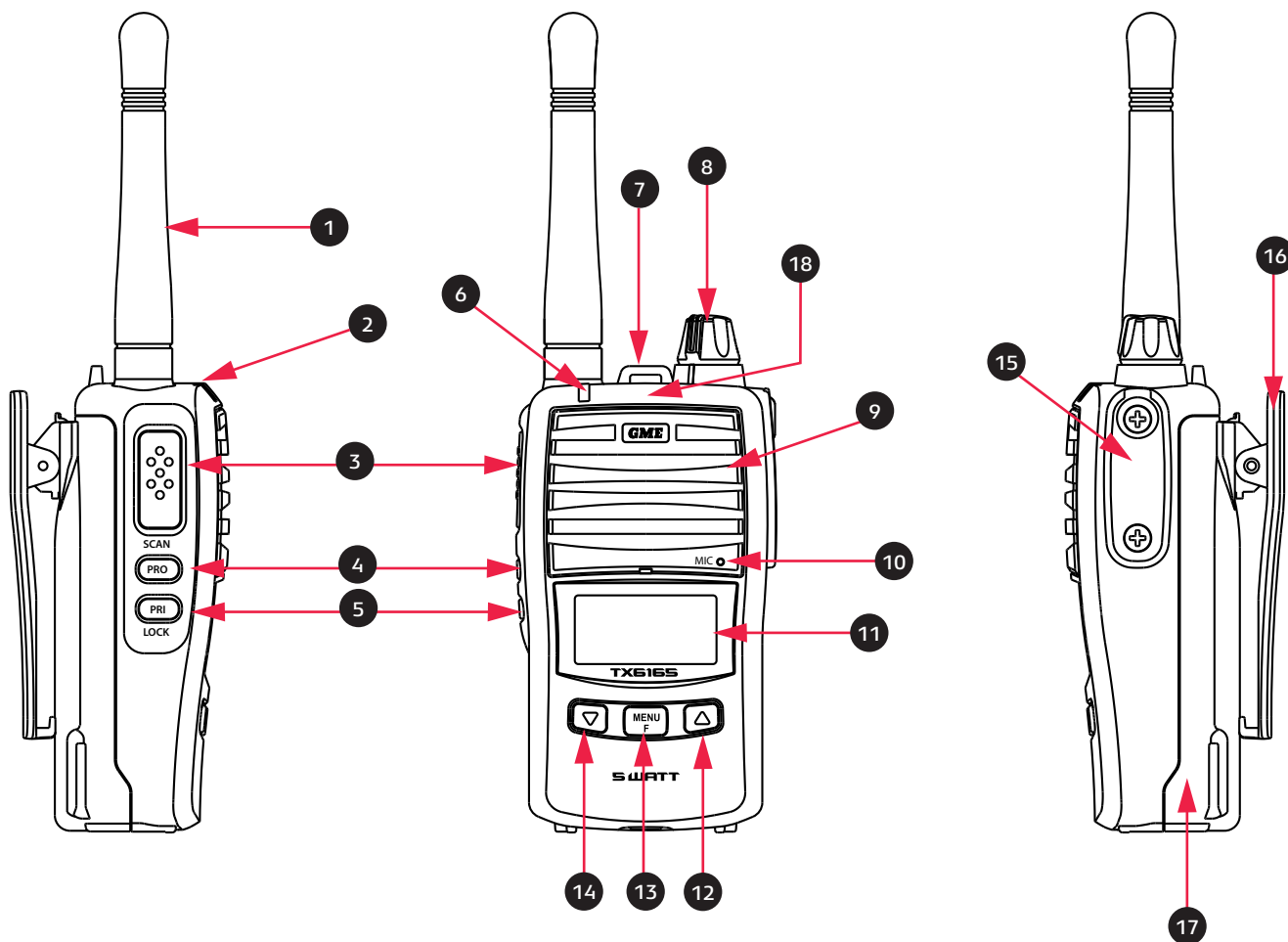
FEATURES

Feature	Description
Transmit (TX)	TX6165 - 5/1 Watt RF Power: Selectable transmitter power allows you to conserve battery power when transmitting in close range by using the Low Power setting.
	Individually programmable Duplex function: User selectable for only those individual channels in your area that have repeaters, leaving others free for use as extra simplex channels.
Receive (RX)	80† channels 477 MHz UHF CB.
	Power Save feature: Conserves battery power by sleeping during periods of inactivity.
	Calling Tone and Roger Beep: Alerts you to incoming calls.
	Signal receive indicator.
Scanning and Memory Functions	Microprocessor controlled frequency synthesiser: Allows user programmable control of scanning, channel memories and selected feature options.
	Programmable scan function: Scans up to 80 UHF CB channels.
	Dual Watch: Scans two channels, working and priority.
	Triple Watch: Scans three channels, working, priority and menu selected Triple Watch channel.
Privacy Functions	Voice Inversion Scrambler: A simple voice scrambler that, when activated, will make your transmission and reception intelligible only to other radios using the same scrambler technology.
	CTCSS & DCS: A built-in Continuous Tone Coded Squelch System and a Digital Coded Squelch option provide quiet channel operation.
Physical Properties	Water & Dust proof IP67: Provides protection against dust and temporary immersion in water.
	Removable flexible antenna.
	Rugged construction with Die-cast Chassis.
User Controls and Interface	Keypad Lock: Prevents accidental button presses.
	Backlit LCD: For night viewing.
	Waterproof/Dustproof speaker microphone - Rated IP67.

† Refer the preface for important information concerning the UHF CB radio.

CONTROLS

This section provides figures and a table that describes various parts of the TX6165 radio.

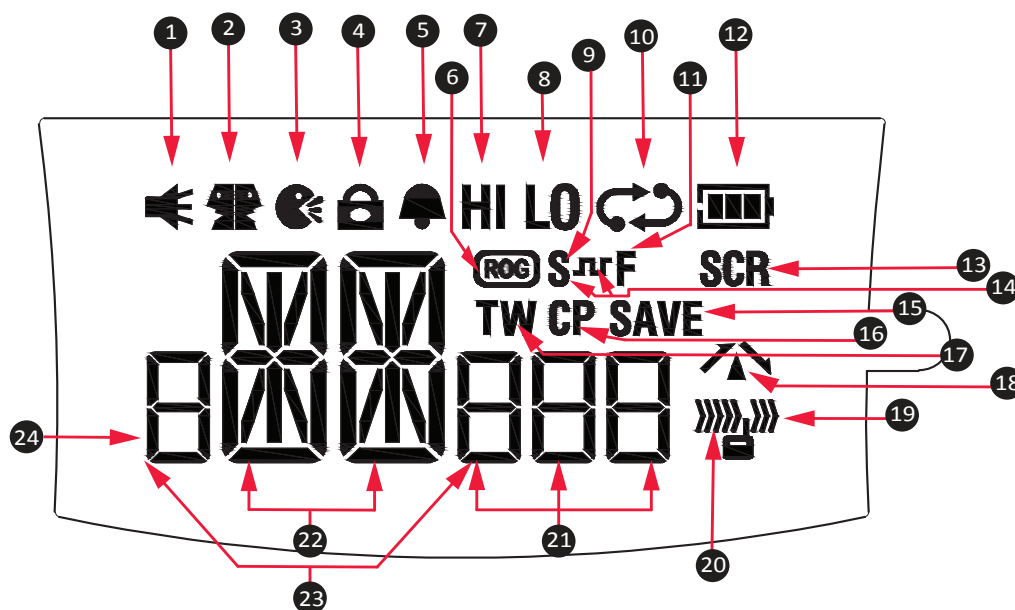


The table that follows is a numbered description of the parts of the TX6165 radio, as labeled in the diagram above.

Label No.	Description	Label No.	Description
1	Antenna	10	Microphone
2	Squelch/LED Torch Dual/Triple Watch Key	11	LCD Display
3	PTT (Push-to-talk) Switch	12	Channel Up Key
4	Programable/Scan/Scan Channel Key	13	Menu/Function Key
5	Priority Channel/Keylock/Silent Key	14	Channel Down Key
6	Indicator LED	15	Accessory Jack
7	Lanyard Mount	16	Belt Clip
8	On/Off Switch and Volume Control	17	Battery
9	Speaker	18	Torch

LCD ICONS

The figure and table below describes the icons on the LCD screen of the TX6165 radio.



The following table describes the icons on the LCD screen, as labeled in the diagram above.

Label No.	Description	Label No.	Description
1	Monitor icon: Appears when the Squelch is open.	13	Scrambler icon: Appears when Scrambler is enabled.
2	Dual Watch icon: Appears when Dual Watch is active.	14	DCS Silent icon: Appears when Silent mode is active using DCS.
3	VOX icon: Appears when VOX mode is active.	15	Power Save icon: Appears when the radio is sleeping.
4	Key Lock icon: Appears when the keypad is locked.	16	Compander icon: Appears when the compander is active.
5	Button Beep icon: Appears when button confirmation tones are active.	17	Triple Watch icon: Appears when Triple Watch is activated.
6	Roger Beep icon: Appears when the Roger Beep tones are active.	18	Duplex icon: Appears on channels where Duplex is enabled.
7	High Power icon: Appears when High TX power is selected.	19	Transmit icon: Appears when transmitting.
8	Low Power icon: Appears when Low TX power is selected.	20	Receive icon: Appears when receiving signals.
9	CTCSS Silent icon: Appears when Silent mode is active using CTCSS.	21	CTCSS/DCS display: Displays the selected CTCSS or DCS tone when Silent mode is active.
10	Scan icon: Flashes when radio is scanning.	22	Channel display: Displays the selected channel in use.
11	Function icon: Appears when the function 'F' key is pressed to activate secondary functions.	23	Battery charge status: Displays the % battery charge level at switch on.
12	Battery icon: Displays battery charge level.	24	Priority channel icon: Displays when selected priority channel in use.

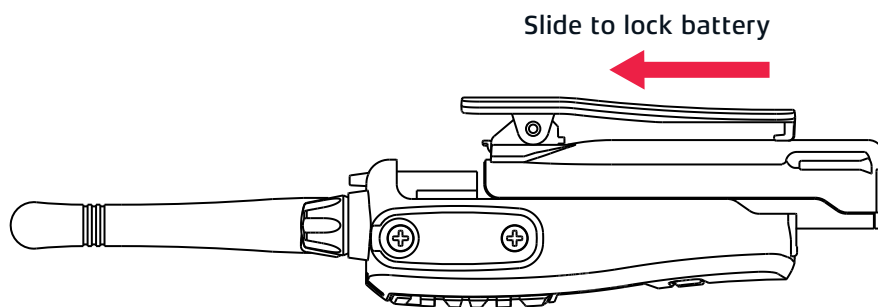
POWERING THE RADIO

Your radio is powered by a 7.4 volt 2600 mAh Li-Ion battery pack. When the battery pack is new, it should be fully charged before being used for the first time. If left unused, your radio's battery pack will discharge itself within a few months. If you have not used your radio for some time, you will need to recharge the battery pack before use.

Warning: Use only the approved GME charger. The use of other types may be dangerous and will void the warranty.

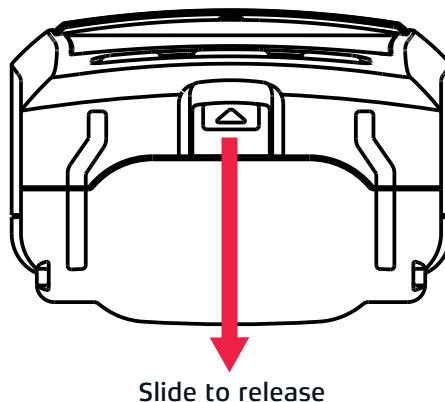
FITTING THE BATTERY PACK

1. Ensure that your radio is switched off.
2. Align the slots in the battery pack with the battery guides on the back of the radio.
3. Slide the battery pack upwards as far as it will go until it clicks.



REMOVING THE BATTERY PACK

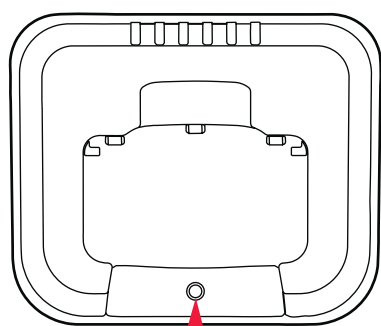
1. Ensure that your radio is switched off.
2. Hold the radio upside down.
3. Using your fingernail, slide the battery catch towards the front of the radio to release the battery then slide the battery towards you. The battery pack should separate from the radio.



CHARGING THE BATTERY PACK

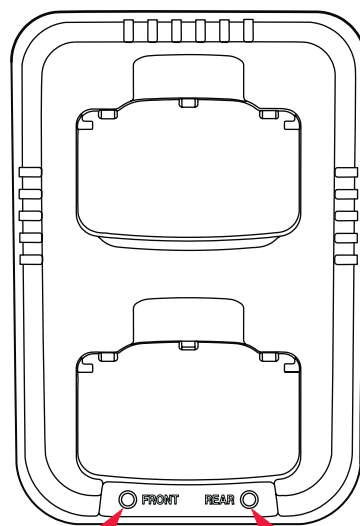
Connecting the desktop charger

1. Plug the included PS013 plug pack into a standard 240V AC outlet.
2. Connect the plug pack's DC connector to the socket on the rear of the desktop charger. The LED(s) on the front of the charger will quickly flash red, green, amber, and then off. The charger is now ready for use.



Charge Status LED

BCD020
SINGLE DESKTOP CHARGER



Front-Slot Status LED

Rear-Slot Status LED

BCD021
DUAL DESKTOP CHARGER

Note: The desktop charger can also be powered from your vehicle via the optional BCV007 vehicle accessory charger. Simply plug the BCV007 into your vehicle's 12V accessory outlet and connect the DC connector to the socket in the rear of the desktop charger.

TX6165

The single desktop charger (BCD020) will charge a fully discharged battery pack to full capacity in around 4 hours.

To charge the battery:

1. Place the radio into the cradle with the battery attached. The LED will light red to indicate the battery is charging.
2. When the battery has charged, the LED will change to green.

The fully charged battery can be left on the charger until it is needed.

The dual desktop charger (BCD021) supplied with the TX6165TP will charge two fully discharged battery packs to full capacity in around 8 hours. The battery packs are charged sequentially (around 4 hours each) starting with the front battery. Once the front battery has charged, the charger will automatically switch to the rear battery.

Note: When charging a single battery pack, the front slot should be used.

CHARGING THE BATTERY

1. Place one radio into the front slot and the second radio into the rear slot. The left LED will light red confirming the battery in the front slot is now charging and the right LED will light amber indicating the battery in the rear slot is on standby.
2. Once the front battery has charged, the left LED will become green and the right LED will switch to red indicating the rear battery is now charging. Once the rear battery has charged, the right LED will also change to green.

Once the batteries are fully charged they can be left on the charger until they are needed.

Note: When charging two battery packs, the battery in the front slot has priority and will be charged first. If the red LED does not light when the battery is first inserted, the battery voltage may be too low to begin a normal charge cycle. In this case simply leave the battery on the charger until the charger has raised the battery voltage to an acceptable level. The red LED will then light and the normal charge cycle will begin. If the LED flashes red or amber while charging, a fault condition has been detected. Try removing the battery then reinserting it. If the LED continues to flash, remove the battery and contact your GME service centre for advice.

BATTERY USAGE

The time taken to discharge the battery pack will depend on how you use the radio. The battery pack supplied is powerful enough for a full day's use under average conditions using low power. The sections that follow provide directions and recommendations on the optimal use of the battery pack.

BATTERY CHARGE STATUS

The TX6165 radio incorporates a battery charge status feature, enabled by default, which briefly displays the battery capacity from 1%-99% when the radio is switched on.

To enable/disable this feature, press and hold the **PRI** and **Menu** buttons simultaneously while switching the radio on.

BATTERY LOW ALERT

When the battery icon blinks on the radio's display, the battery level is low and the battery pack should be recharged. If the battery is not charged, an audio tone will then sound to warn the user that the battery is almost discharged.

CONSERVING BATTERY POWER

The radio 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.

STANDBY MODE

The radio will automatically enter the 'Standby' mode when it is inactive (i.e. not transmitting or receiving signals).

While in Standby mode it will still check for incoming signals but it will draw considerably less power from the battery pack. As soon as a signal is heard or the keys are pressed the radio will 'wake up' again. This Standby mode is automatic and by itself can extend the battery life by many hours.

To enable/disable this feature:

1. Press and hold the **Menu** key until the radio beeps.
3. Briefly press the **Menu** key repeatedly until 'PS' is displayed. 'on' or 'off' will be displayed.
4. Press the ▲ or ▼ keys to select the required power setting. Select 'on' to turn on power save or 'off' to turn off power save.
5. Press the **PTT** switch to confirm and store your selection

USE CTCSS/DCS

If you are expecting to receive signals on a busy channel, you can program that channel for CTCSS/ DCS operation and get the other person to call you using the same CTCSS/DCS tone. Your radio will then remain in Standby and ignore all other signals until your selected CTCSS/DCS tone is received.

AVOID SCANNING

The radio draws more power from the battery pack when scanning than when monitoring a single channel. This is because it must 'wake up' more often to monitor each channel for activity. In addition, scanning increases the chance of finding a signal thereby keeping the receiver 'awake' and the squelch open more often.

USE LOW TRANSMIT POWER

The transmitter has both high and 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 transmitter power setting. This reduces the transmitter power to 1 watt effectively doubling the talk time available.

TURNING THE RADIO ON/OFF

1. Rotate the **Volume** control clockwise past the click to turn the radio on. The radio will emit a confirmation tone when it is switched on.
2. Rotate the **Volume** control counter-clockwise past the click to turn the radio off again.

ADJUSTING THE VOLUME

With the unit powered on, rotate the **Volume** control clockwise to increase the volume and counter-clockwise to decrease the volume.

DISPLAY LIGHTING

The LCD backlighting activates automatically whenever a key other than the PTT is pressed, and turns off automatically after about 5 seconds.

RECEIVING SIGNALS

While the radio is not receiving signals, it will remain in standby mode to conserve battery power and 'Save' will be displayed on the LCD screen. When a signal is received, the LED indicator on the upper edge of the radio will light green and the  icon will appear on the display. Adjust the **Volume** control for a comfortable listening level.

If the incoming signal is encoded with a CTCSS or DCS tone matching the one set in your radio, the LED indicator will light orange and you will be able to hear the signal in the speaker. If the LED indicator lights green and flashes but you cannot hear the signal, it is likely that the incoming signal is using a different CTCSS or DCS tone to that selected in your radio (see Menu options for more details on setting CTCSS/DCS tones).

If no further signals are received, the unit will return to standby mode after a few seconds.

TRANSMITTING

To transmit:

1. Press and hold the **PTT (Push-To-Talk)** switch. The other radio you are talking to must be set to the same channel.
2. Hold the radio approximately 5-8 cm from your mouth with the antenna vertical and speak into the built-in microphone.
3. While the **PTT** switch is pressed, the LED indicator on the upper edge of the radio will light red and the  icon will appear on the LCD.
4. When you have finished speaking, release the **PTT** switch to receive incoming signals (it is not possible to transmit and receive at the same time). If no further signals are received, the unit will revert to Standby mode.

Note: The **PTT** switch can also be used to transmit a Call Alarm melody.

When the Call Alarm melody is enabled (see Menu options for more details on Call Alarm settings), pressing the **PTT** switch twice quickly will play the Call Alarm melody in the speaker of other radios on the same channel to alert them to your call. During this time the  icon is displayed and the LED indicator will light red for about 5 seconds. The Call Alarm can only be sent once per minute.

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 beep. Normal operation will be restored once the PTT is released.

SELECTING CHANNELS

1. In the Standby mode, press the  key to step up one channel or the  key to step down one channel.
2. Press and hold the  or  keys to quickly scroll through the channels.

SQUELCH

The Squelch is used to eliminate the background noise when there are no signals present. When the squelch is open the receiver's background noise can be heard. 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.

To open the squelch:

Briefly press the **SQL** key. This will allow you to check the current channel for activity before transmitting, particularly if you have CTCSS/DCS enabled.

When the squelch is open, the LED indicator on the upper edge of the radio will light green and the  and  icons will appear on the display. During this time you will hear static or hiss if the channel is clear. Do not transmit if you hear any signals.

To close the squelch:

Briefly press the **SQL** key again.

Note: The Squelch sensitivity is preset in the Menu – Squelch Level setting (see Menu options for more details on setting the Squelch sensitivity).

KEYPAD LOCK

The Keypad Lock disables the keys to prevent accidental key presses from changing the preferred settings of the radio. When the keys are locked, the  icon is displayed and all key presses are ignored except for the **PTT**, **SQL** and the Keypad unlock sequence.

To activate the keypad lock:

Press the **F** key (the F icon will appear) then press the **LOCK** key until the radio beeps. The  icon will appear on the display.

To cancel the keypad lock:

Press the **F** key then press the **LOCK** key again until the radio beeps. The  icon will disappear.

DUPLEX OPERATION

Duplex operation allows the radio to transmit on a different frequency to that which it receives. This allows operation through repeater stations in your area. Repeaters automatically re-transmit your signal over a much wider area, providing greatly increased range. The Duplex mode only works on designated repeater channels 1 – 8 and 41 – 48. With Duplex selected on one of these channels, your radio actually transmits 30 channels higher than it receives. For example, if Duplex is selected on channel 1, your radio will receive on channel 1 but will transmit on channel 31.

Duplex can be enabled or disabled on individual channels. When Duplex is enabled on the selected channel,  is displayed. The Duplex mode is set through the Menu. Please refer the menu options in the Menu section further in this manual.

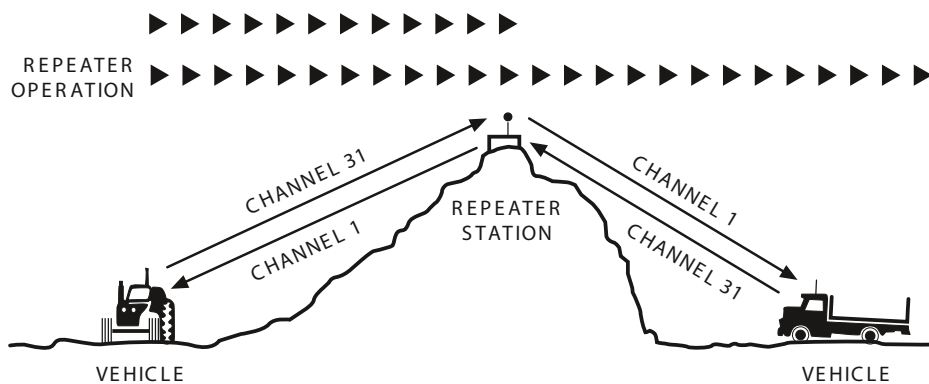


Figure 1 - Simple/Duplex Range Comparison

LED TORCH

The TX6165 incorporates a built-in super bright LED Torch with SOS signaling capability.

To switch the torch on:

Press and hold the red **SQL** key (located at the top of the radio) until the radio beeps.

To switch the torch off:

Briefly press the **SQL** key.

To activate the SOS signalling function:

Whilst the torch is on press and hold the **SQL** key again until the radio beeps. The torch will then flash SOS repeatedly. To switch off, briefly press the **SQL** key.

Note: The torch is automatically disabled whilst transmitting and resumes operation when the PTT switch is released. The LED is extremely bright. **Do not** stare directly at it or direct the beam into other people's eyes.

FACTORY RESET

To clear any settings you have made to your radio and restore it to the factory defaults, perform a reset by pressing and holding the **Menu**, **PRI** and **SQL** keys simultaneously while switching the radio on.

SCANNING

Channel scanning allows you to monitor all channels for incoming signals.

Note: While the radio is scanning, the Menu setting key is disabled.

ADDING OR REMOVING CHANNELS

To select channels for scanning:

1. Press the ▲ or ▼ keys to select the required channel.
2. Briefly press the **Menu** key followed by pressing and holding the **PRO** key. The radio beeps and ↻ will be displayed indicating that the selected channel is now stored in the Scan Memory.
3. Repeat to store further channels into the Scan Memory.
4. To remove a channel from the Scan Group, press the ▲ or ▼ keys to select the required channel then briefly press the **Menu** key followed by pressing and holding the **PRO** key. The radio beeps and ↻ will disappear from the display.

SCANNING FOR CHANNELS

To scan for channels:

1. Briefly press the **Menu** key follow by the **PRO** key. The ↻ icon will flash and the channel numbers will change as the radio scans through the channels.
2. While scanning, briefly press the ▲ or ▼ keys to change the scan direction upwards or downwards.

To exit scan mode, briefly press the **PRO** key, or briefly press the **PRI** key to return to the priority channel. The radio will return to normal operation.

Note: There must be at least 2 channels stored in the scan memory otherwise the radio will not scan.

SCANNING FEATURES

- If a signal is received, the scan is paused allowing you to transmit and receive on that channel. During this time the ↻ icon will continue to flash to show that the scan is still active. Once the channel has been inactive for 5 seconds the scan will automatically resume.
- Pressing the **PTT** switch while the radio is scanning will jump to the working channel allowing you to transmit and receive on that channel (the working channel is the channel the radio was on at the time the scan was activated). During this time the ↻ icon will continue to flash to show that the scan is still active. Once the working channel has been inactive for 5 seconds the scan will automatically resume.

- If the scan is paused on a busy channel that you don't wish to listen to, press the ▲ or ▼ keys to skip over the channel and continue scanning.

Note: The Scan mode will reduce the overall battery life because the Standby (battery saver) feature is overridden. If the battery is running low you should avoid scanning to conserve power.

CTCSS, DCS AND SILENT MODE

CTCSS (Continuous Tone Coded Squelch System) and DCS (Digital Coded Squelch) are similar Squelch quieting systems that allow groups of users to share the same channel without disturbing each other. 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.

When CTCSS or DCS is enabled on your radio, only signals that are using the same tone or code as your radio will be heard in the speaker and the Squelch will remain closed to all other signals.

Note: CTCSS and DCS codes do not prevent others from hearing your transmission.

CTCSS/DCS tones are switched off by default.

To use CTCSS/DCS you must first enable a suitable CTCSS/DCS code using the Menu (see Menu options for more details). Your choice of CTCSS or DCS will largely depend on which is currently being used by other radios in your group. If neither system is currently in use, you can make your own choice. There is no difference in performance between the two systems. Once a CTCSS or DCS code has been enabled, the display will show **S** (for CTCSS) or **S-** (for DCS). You can now make selected channels 'quiet' by enabling silent mode on those channels.

To activate or deactivate silent mode on a channel:

1. Select the required channel.
2. Briefly press the Menu key followed by pressing and holding the **PRI** key. The selected CTCSS or DCS code will be displayed on that channel.

Channels that have Silent mode enabled will now remain quiet unless a signal containing your chosen code is received.

Note: Silent mode cannot be activated unless a CTCSS or DCS code has been selected via the Menu key (See Menu options for more details). If CTCSS/DCS tones are set to 'Off', any attempt to activate the Silent mode will be ignored. When communicating with other radios using CTCSS or DCS, all radios must be switched to the same channel and have the same CTCS or DCS code selected. To receive signals from radios that are not using CTCSS or DCS, you will need to disable Silent mode on that channel.

MENU OPTIONS

The **Menu** key is used to adjust the various feature settings. The following chart shows the order of these selections.

No.	Description	No.	Description
1	Duplex (channels 1 – 8 and 41 – 48 only)	9	Roger Beep Setting Off/On
2	CTCSS and DCS Selection Gbl/Ind	10	Button Beep Selection Off/On
3	CTCSS and DCS Code Selection	11	Call Alarm Selection 1-5
4	Transmitter Power Hi/Lo	12	Triple Watch Channel 1-80
5	Compander Off/On/Auto	13	Squelch Tail Off/On
6	Scrambler Setting Off/On	14	Power Save Off/On
7	VOX setting 1-3	15	Receive LCD Backlight Off/On
8	Squelch Level Setting 1-5/Auto	16	Programmable Button Menu

Note: The Duplex menu option will only appear when channels 1 – 8 or 41 – 48 are selected. DTCSS/DCS, transmit power and voice scrambler settings are inhibited on channels 5/35 (emergency channel).

USING THE MENU

- To access the menu, press and hold the **Menu** key until the radio beeps. Menu options will appear in the order listed above.
- To step to the next menu item, press the **Menu** key again.
- To change options in selected menu, press the ▲ or ▼ keys.
- To store your selection and exit menu, press the **PTT** switch.

To access the Programmable Button Menu, press and hold the Menu key until the radio beeps or when the sub menu is entered when the ProG is displayed.

DUPLEX MODE SELECTION

The Duplex option only appears in the Menu if a repeater channel (1 – 8 or 41 – 48) is selected prior to entering the menu.

To enable duplex on the selected repeater channel:

1. Select a repeater channel 1 – 8 or 41 – 48 using the ▲ or ▼ keys.
2. Press and hold the **Menu** key until the radio beeps. The  icon will flash.
3. Press the ▲ or ▼ keys to toggle 'on' (duplex enabled) or 'oFF' (duplex disabled) on the display.
4. Press the **PTT** switch to store your setting and exit the Menu.

When Duplex is enabled on a repeater channel, the  icon will be displayed on that channel.

CTCSS/DCS GLOBAL OR INDEPENDENT SELECTION

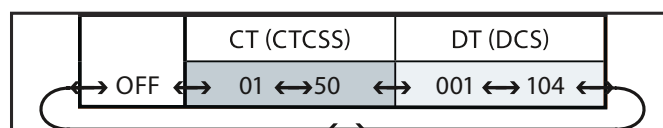
When utilising CTCSS/DCS there are two settings available, Global (Gbl) which enables CTCSS/DCS for all channels 1-80, and Independent (Ind) which enables CTCSS/DCS for the selected channel only.

To select CTCSS/DCS Global or independent:

1. Select the required channel.
2. Press and hold the **Menu** key until the radio beeps. CT Gbl/Ind or DT Gbl/Ind will be displayed with Gbl or Ind flashing.
3. Press the ▲ or ▼ keys to select 'Gbl' (Global) or 'Ind' (Independent).
4. Press the **PTT** switch to confirm your selection and exit the menu, or briefly press the **Menu** key to continue to CTCSS/DCS code selection.

CTCSS AND DCS CODE SELECTION

The radio is fitted with both CTCSS and DCS systems. There are 50 CTCSS tones and 104 DCS codes. The DCS codes and the CTCSS tones are accessed through the same menu (refer the following table). When CTCSS tones are being selected, 'CT' is displayed. To access DCS codes, scroll past CTCSS tone 50 until 'DT' is displayed.



To select a CTCSS or DCS code:

1. Select the required channel.
2. Press and hold the **Menu** key until the radio beeps. 'CT' (for CTCSS) or 'DT' (for DCS) will be displayed.
3. Press the ▲ or ▼ keys to select the required tone/code.
4. To select CTCSS tones 01 to 50 press the ▲ or ▼ keys while 'CT' is displayed. When a CTCSS code is selected the icon is displayed.
5. To select DCS codes, hold the ▲ or ▼ keys to scroll past CTCSS tone 50 until 'DT' is displayed. Now use the ▲ or ▼ keys to select the required DCS code 001 to 104. When a DCS code is selected the icon is displayed.
6. To return to CTCSS tones hold the ▲ or ▼ keys until 'CT' is displayed again.
7. To turn the CTCSS/DCS tones off, hold the ▲ or ▼ keys to step to the end of the code list until OFF is displayed.
8. Press the **PTT** switch to confirm and store your selection. The **S** (CTCSS) or **S_{nr}** (DCS) icon remains on the display to confirm the code system you have selected.

To enable Silent Mode on a channel:

1. Select the required channel.
2. Briefly press the **Menu** key followed by pressing and holding the **PRI** key. The selected code number will be displayed on that channel.
3. The selected channel will now remain silent unless a signal is received containing the chosen code.

Note: Silent mode will only be enabled on channels you select. Other channels will remain open to all incoming signals.

To disable silent mode on a channel:

1. Select the required channel. The CTCSS/DCS code will be displayed.
2. Briefly press the **Menu** key followed by pressing and holding the **PRI** key. The selected code number will disappear from the display on that channel. The selected channel will now be open to all incoming signals.

TRANSMITTER POWER

The transmitter power can be set to High or Low. The power setting option applies to all channels (except 5/35).

To set the transmit power:

1. Select the required channel.
2. Press and hold the **Menu** key until the radio beeps.
3. Briefly press the **Menu** key repeatedly until 'PW' is displayed. 'Hi' or 'Lo' will be flashing.
4. Press the ▲ or ▼ keys to select the required power setting. Select 'Hi' for high power or 'Lo' for low power.
5. Press the **PTT** switch to confirm and store your selection.

The radio should now display the selected channel number along with the **HI** or **LO** icon to indicate the transmit power you have set on that channel.

COMPANDER FUNCTION

The radio is equipped with an Audio Compander, designed to reduce extraneous background noise. When utilising the Compander there are two settings available, On and Auto (AUt). When set to 'On' the Compander will operate both with and without an earpiece or speaker microphone connected to the radio. When set to 'Auto' mode the Compander will operate only when an earpiece or speaker microphone is connected to the radio and the receive audio and beep tone volume levels are automatically reduced.

To enable or disable the compander:

1. Select the required channel.
2. Press and hold the **Menu** key until the radio beeps.
3. Briefly press the **Menu** repeatedly until '**CP**' is displayed. The **CP** icon will be flashing.
4. Press the ▲ or ▼ keys to select 'on', 'AUt' or 'oFF'.
5. Press the **PTT** switch to confirm and store your selection.

When the Compander is operating, **CP** will be displayed on the LCD.

VOICE SCRAMBLER

Your radio incorporates a 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.

To enable or disable the scrambler:

1. Select the required channel.
2. Press and hold the **Menu** key until the radio beeps.
3. Briefly press the **Menu** key repeatedly until 'SR' is displayed. The **SCR** icon will be flashing.
4. Press the ▲ or ▼ keys to select 'on' or 'oFF'.
5. Press the **PTT** switch to confirm and store your selection.

When the scrambler is enabled, **SCR** the icon is displayed.

Note: The scrambler feature is not available on the emergency channels 5/35.

VOX SETTINGS

The VOX feature allows you to have hands-free conversations. When you speak, the microphone automatically detects your voice (or other nearby sound) causing the radio to transmit without the need to press the PTT.

To set the radio for VOX operation:

1. Press and hold the **Menu** key until the radio beeps.
2. Briefly press the **Menu** key repeatedly until 'VX' is displayed. The  symbol will be flashing.
3. Press the  or  keys to set the VOX sensitivity from 1 (min) to 3 (max). A minimum setting requires a louder voice to activate the VOX while a maximum setting will activate the VOX with a much softer voice.
4. To disable the VOX completely, set the VOX sensitivity to 'oFF'.
5. Press the **PTT** switch to confirm and store your selection.

When VOX is enabled, the  icon is visible on the display.

Note: Using the radio in a noisy environment with the VOX sensitivity set to maximum could cause the radio to transmit unexpectedly. If this happens simply reduce the sensitivity setting.

VOX will not operate with a speaker microphone connected or a earpiece mic that is set to PTT.

SQUELCH LEVEL SETTING

The Squelch is designed to keep the radio quiet when there are no signals present. The Squelch setting adjusts the sensitivity of the Squelch to incoming signals. Higher Squelch settings require stronger signals to overcome the Squelch and be heard in the speaker while lower settings allow much weaker signals to be heard.

To set the squelch:

1. Press and hold the **Menu** key until the radio beeps.
2. Press the **Menu** key repeatedly until 'SQ' is displayed. The **SQL** icon will be flashing.
3. Press the  or  keys to adjust the squelch level from 1 (most sensitive) to 5 (least sensitive) or select 'AUT' (Auto) for an automatic setting.
4. Press the **PTT** switch to confirm and store your selection.

ROGER BEEP TONE

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.

To enable or disable the roger beep tone:

1. Press and hold the **Menu** key until the radio beeps.
2. Press the **Menu** key repeatedly 'RG' is displayed. The  icon will be flashing.
3. Press the  or  keys to select 'on' or 'oFF'.
4. Press the **PTT** switch to confirm and store your selection. When the roger beep tone is enabled, the  icon is displayed.

BUTTON BEEP

The Button Beep allows the radio to sound a confirmation beep whenever the keys are pressed.

To turn the button beep on or off:

1. Press and hold the **Menu** key until the radio beeps.
2. Press the **Menu** key repeatedly until 'BP' is displayed. The  icon will be flashing.
3. Press the  or  keys to select 'on' or 'oFF'.
4. Press the **PTT** switch to confirm and store your selection.

When the Button Beep is enabled the  icon will be displayed and a beep will be heard whenever a key is pressed.

CALL ALARM SELECTION

The radio provides 5 user-selectable Call Alarm melodies to alert other users to your incoming call. When enabled, the melody can be transmitted to another user where it will be heard in the speaker of the receiving radio.

To select your favourite call alarm melody:

1. Press and hold the **Menu** key until the radio beeps.
2. Press the **Menu** key repeatedly until 'CL' is displayed. Call number 1 – 5 or 'oFF' will be flashing.
3. Press the  or  keys to preview (listen to) the 5 available Call Melodies (1 – 5).
4. To disable the call melodies, select 'oFF'. Press the **PTT** switch to confirm and store your selection.

To send the Call Alarm Melody:

Press the **PTT** switch twice quickly. The  icon and cAll (1-5) will appear and the LED indicator will light red for a few seconds as the melody is sent. The melody will be heard in the speaker of the receiving radio.

Note: The Call Alarm can only be sent once per minute.

DUAL WATCH

The Dual Watch mode scans two channels. While in dual watch mode, the unit will monitor both the working channel and priority channel.

To activate dual watch mode:

1. Press **Menu** key followed by pressing **SQL** key.

While dual watch is active, the  icon and LCD will alternate between the selected channel and the dual watch channel.

Note: The Dual Watch function will only activate if it is started on the working channel, NOT the priority channel.

DUAL WATCH OPERATION

- If a signal is received on either channel, the radio will pause on that channel for as long as it remains busy, then resume the dual watch 5 seconds after the last transmission has ceased.
- To talk on the dual watch channel, press the **PTT** switch while the radio is paused on that channel then talk in the usual way.
- To talk on the working channel, press the **PTT** switch while no signals are being received. The radio will switch to the working channel. When you have finished your conversation the radio will resume the dual watch 5 seconds after the last transmission has ceased.

To exit dual watch mode press the **Menu** key followed by pressing the **SQL** key or press the **PRI** key to return to priority channel.

TRIPLE WATCH

The Triple Watch mode scans three channels. While in triple watch mode, the unit will monitor the working channel, priority channel and selected triple watch channel.

To activate triple watch mode:

1. Press **Menu** key followed by pressing and holding the **SQL** key.

To select triple watch channel:

1. Press and hold the **Menu** key until the radio beeps.
2. Press the **Menu** key repeatedly until 'TW' is displayed. The **TW** icon will be flashing.
3. Press the ▲ or ▼ keys to select the triple watch channel.
4. Press the **PTT** switch to confirm and store your selection.

While triple watch is active, the **TW** icon and LCD will alternate between the working, priority and selected triple watch channel.

Note: The Triple Watch function will only activate if it is started on the working channel, NOT the priority or selected triple watch channel.

TRIPLE WATCH OPERATION

If a signal is received on any channel, the radio will pause on that channel for as long as it remains busy, then resume the triple watch 5 seconds after the last transmission has ceased.

- To talk on the priority or triple watch channel, press the **PTT** switch while the radio is paused on that channel then talk in the usual way.
- To talk on the working channel, press the **PTT** switch while no signals are being received. The radio will switch to the working channel. When you have finished your conversation the radio will resume the triple watch 5 seconds after the last transmission has ceased.

To stop triple watch, briefly press the **Menu** followed by pressing and holding the **SQL** or press the **PRI** key to return to the priority channel.

SILENT SQUELCH TAIL

The Squelch Tail is the short burst of noise that is heard in the speaker at the end of a transmission before the Squelch closes. To some it is a reassuring confirmation that it is their turn to transmit but in some applications it may be an annoyance especially when listening through an earpiece or headphones. The Silent Squelch Tail function removes this Squelch tail, reducing it to a faint click as the Squelch closes.

To turn the squelch tail on or off:

1. Press and hold the **Menu** key until the radio beeps.
2. Briefly press the **Menu** repeatedly until 'ST' is displayed.
3. Press the ▲ or ▼ keys to select 'on' or 'oFF'.
4. Press the **PTT** switch to confirm and store your selection

POWER SAVE

The Power Save 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 TX6165 for long periods of time between charges you should consider using the power saving mode.

The Power Save option is switched on by default.

To enable or disable power save mode;

1. Press and hold the **Menu** key until the radio beeps
2. Briefly press the **Menu** repeatedly until '**PS**' is displayed.
3. Press the "**UP**" or "**DOWN**" keys to select 'on' or 'off'
4. Press the **PTT** switch to confirm and store your selection.

RECEIVE LCD BACKLIGHT

The radio is equipped with a receive backlight feature which, when enabled, automatically activates the LCD backlighting during the time in which a signal is being received. When the signal disappears, the backlight is extinguished.

To enable or disable the receive backlight:

1. Press and hold the **Menu** key until the radio beeps.
2. Briefly press the **Menu** repeatedly until '**RL**' is displayed. The icon will be flashing.
3. Press the ▲ or ▼ keys to select 'on' or 'oFF'.
4. Press the **PTT** switch to confirm and store your selection.

When the receive backlight is enabled, the icon  will be displayed on the LCD.

PROGRAMMABLE BUTTON

The radio is equipped with a programmable button, labelled **PRO** on the side of the radio which can be programmed to a number of different functions through the radio menu. A description of the functions can be found in the table below.

To assign functions to the programmable buttons:

- 1. Press and hold the **Menu** key until the radio beeps.
- 2. Press the **Menu** key repeatedly until '**ProG**' is displayed.
- 3. Press and hold the **Menu** key until the radio beeps or programmable button sub menu appears.
- 4. Press the ▲ or ▼ keys so select select the desired option.
- 5. Press the **PTT** switch to confirm and store selection

Programmable Button Options			
PRO Button	Dual / Triple Watch	DT	Enable Dual or Triple Watch to monitor the current working channel, priority channel and selected trple watch channel. Press PRO for dual watch, press and hold PRO for Triple watch.
	Transmitt Power	PW	Cycle between HI and LO transmitter power levels.
	Button Beep	BP	Enables or disables the button beep option.
	VOX	VX	Enable or disables VOX voice activated PTT.
	Power Save	PS	Enables or disables the power save option.
	Roger Beep	RG	Enables or disables the roger beep option.
	Duplex	DP	Enables or disables the duplex option.
	Voice Scramble	SR	Enables or disables the scrambler option.
	Squelch Tail	ST	Enables or disables the squelch tail option.
	Scan	SC	Enables or disables the scan option.

The table that follows details the CTCSS tone frequencies of the TX6165 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 TX6165 radio.

DCS TONE CHART											
DCS	Code	DCS	Code	DCS	Code	DCS	Code	DCS	Code	DCS	Code
1	023	19	116	37	225	55	325	73	452	91	627
2	025	20	122	38	226	56	331	74	454	92	631
3	026	21	125	39	243	57	332	75	455	93	632
4	031	22	131	40	244	58	343	76	462	94	654
5	032	23	132	41	245	59	346	77	464	95	662
6	036	24	134	42	246	60	351	78	465	96	664
7	043	25	143	43	251	61	356	79	466	97	703
8	047	26	145	44	252	62	364	80	503	98	712
9	051	27	152	45	255	63	365	81	506	99	723
10	053	28	155	46	261	64	371	82	516	100	731
11	054	29	156	47	263	65	411	83	523	101	732
12	065	30	162	48	265	66	412	84	526	102	734
13	071	31	165	49	266	67	413	85	532	103	743
14	072	32	172	50	271	68	423	86	546	104	754
15	073	33	174	51	274	69	431	87	565		
16	074	34	205	52	306	70	432	88	606		
17	114	35	212	53	311	71	445	89	612		
18	115	36	223	54	315	72	446	90	624		

UHF CB OPERATING FREQUENCIES

The table that follows details the UHF CB operating frequencies of the TX6165 radio.

CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	476.425	21	476.925	41	476.4375	61	476.9375
2	476.450	22	476.950	42	476.4625	62	476.9625
3	476.475	23	476.975	43	476.4875	63	476.9875
4	476.500	24	477.000	44	476.5125	64	477.0125
5	476.525	25	477.025	45	476.5375	65	477.0375
6	476.550	26	477.050	46	476.5625	66	477.0625
7	476.575	27	477.075	47	476.5875	67	477.0875
8	476.600	28	477.100	48	476.6125	68	477.1125
9	476.625	29	477.125	49	476.6375	69	477.1375
10	476.650	30	477.150	50	476.6625	70	477.1625
11	476.675	31	477.175	51	476.6875	71	477.1875
12	476.700	32	477.200	52	476.7125	72	477.2125
13	476.725	33	477.225	53	476.7375	73	477.2375
14	476.750	34	477.250	54	476.7625	74	477.2625
15	476.775	35	477.275	55	476.7875	75	477.2875
16	476.800	36	477.300	56	476.8125	76	477.3125
17	476.825	37	477.325	57	476.8375	77	477.3375
18	476.850	38	477.350	58	476.8625	78	477.3625
19	476.875	39	477.375	59	476.8875	79	477.3875
20	476.900	40	477.400	60	476.9125	80	477.4125

	Emergency use only (Australia)
	Telemetry I SelCall use only. Voice transmission is inhibited as required by AS/NZS4 365.2011
	Guard band channel. Transmission is inhibited as required by AS/NZ 4365.2011
	Repeater input channels (Duplex)
	Repeater output channels (Duplex)
11	Officially designated call channel
40	Road channel
18	Caravan and motorhome
10	4WD I Offroad

SPECIFICATIONS

GENERAL

Type	Description
Frequency Range	476.425 – 477.4125 MHz
Channel Spacing	12.5 kHz
No of Channels	80, (75 voice, 2 telemetry RX only, 3 for future use).
CTCSS Codes	50
DCS Codes	104
Dimensions	(W x H x D): 59 mm x 102 mm x 35 mm (without antenna and battery pack)
Complies with	AS/NZS 4365: 2011

POWER SUPPLY

Type	Description
Power Source	Li-ion rechargeable – 7.4V DC, 2600 mA
Operating Time	Low Power: Up to 30 hrs, High Power: Up to 18 hrs (Transmit 5%, Receive 5%, Standby 90%)

RECEIVER

Type	Description
Usable Sensitivity:	-121 dBm
Maximum Audio Output:	>0.5 watt max. (8 Ohm)
Modulation Distortion:	<5% (1 kHz 70%)

TRANSMITTER

Type	Description
Transmit Power:	Hi: 5 watts Lo: 1 watt

Note: Specifications are typical unless otherwise indicated and may be subject to change without notice or obligation.

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.
- (e) Goods improperly installed or used in a manner contrary to the relevant instruction manual; or
- (f) Goods where the serial number has been removed or made 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	3 Years
BATTERY & ACCESSORIES	1 Year

