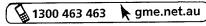
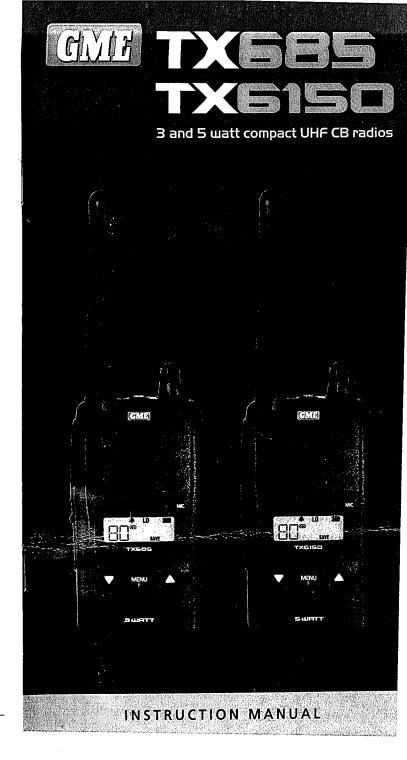
For more information call or visit us:



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Part Number: 310583 Drawing Number: 46721-1



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SAFETY INFORMATION

The TX685 and TX6150 are radio transmitting devices.

- 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.

ACCESSORIES SUPPLIED

TX685

- Li-lon Battery Pack (2000 mAh)
- Desktop Charger
- AC Adapter
- Removable Flexible Antenna
- Earpiece Style Microphone with VOX and PTT
- Belt Clip
- Instruction Manual

TX6150

- Li-lon Battery Pack (2200 mAh)
- Desktop Rapid Charger
- AC Adapter
- Removable Flexible Antenna
- Speaker Microphone
- Earpiece Style Microphone with VOX and PTT
- Vehicle Lighter 12V DC Lead
- Belt Clip
- Instruction Manual

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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. 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.

Original 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 to 40 as well as the newer channels allocated from 41 to 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 CH 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.

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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.
- ONLY use 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.

FEATURES

TRANSMIT (TX)

TX685 – 3/1 watt and TX6150 – 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 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: Monitors two channels simultaneously.

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.

Desktop Charger – TX685, Desktop Rapid Charger – TX6150

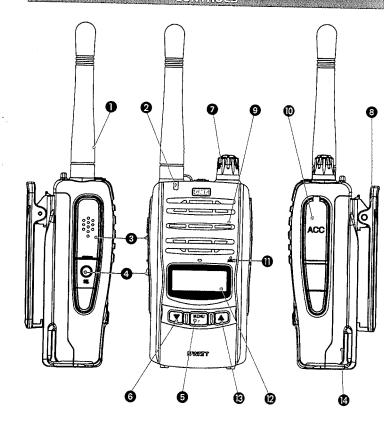
Refer to Page 3. Important information concerning UHF CB radio.

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CONTROLS



Antenna

6 Channel Down

Microphone

2 Indicator LED

⑦ Volume On/Off

LCD Display

9 PTT Button4 Squelch Button

Belt ClipSpeaker

Channel UpBattery

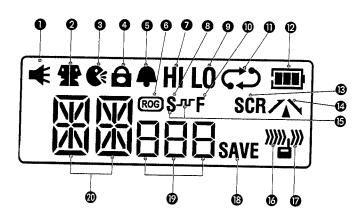
6 Menu/Function Key

Accessory Jack

ck

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- **Monitor Icon:** Appears when the Squelch is open.
- Dual Watch Icon: Appears when Dual Watch is active.
- 3 VOX Icon: Appears when VOX mode is active.
- 4 Key Lock Icon: Appears when the keypad is locked.
- **Button Beep Icon:** Appears when button confirmation tones are on.
- 6 Roger Beep Icon: Appears when the Roger Beep tones are active.
- **7 Hi Power Icon:** Appears when High TX power is selected.
- 8 CTCSS Silent Icon: Appears when Silent mode is active using CTCSS.
- Low Power Icon: Appears when Low TX power is selected.
- Function Icon: Appears when the function 'F' key is pressed to activate secondary functions.

- **Scan Icon:** Flashes when radio is scanning.
- **Battery icon:** Displays battery charge level.
- Scrambler Icon: Appears when Scrambler is enabled.
- **Duplex Icon:** Appears on channels where Duplex is enabled.
- DCS Silent Icon: Appears when Silent mode is active using DSC.
- **Receive Icon:** Appears when receiving signals.
- **Transmit Icon:** Appears when transmitting.
- Power Save Icon: Appears when the radio is sleeping.
- CTCSS/DCS Display: Indicates the selected CTCSS or DCS tone when in the Menu.
- Channel Display: Displays the selected channel in use.

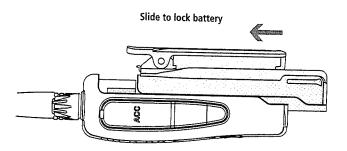
POWERING THE RADIO

Your radio is powered by a 7.4 volt Li-lon 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.

To Fit 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'.

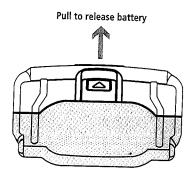


To Remove the Battery Pack

- 1. Ensure that your radio is switched off.
- 2. Hold the radio upside-down.

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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

The TX685 is supplied with a desktop charger. The desktop charger will charge a fully discharged 2000 mAh battery pack to full capacity in around 7 – 8 hours.

The TX6150 is supplied with a rapid desktop charger. The charger will charge a fully discharged 2200 mAh battery pack to full capacity in around 3 hours.

To charge the battery pack:

- 1. Plug the included plug pack power supply into a standard 240 volt AC outlet.
- Connect the plug pack's DC connector to the socket under the base of the desktop charger. Route the lead through the slot under the charger's base.
- Place the radio with battery attached, into the cradle. The RED 'CHG' LED will light to indicate the battery is charging.
- 4. When the battery has charged, the GREEN 'FULL' LED will light.

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.

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.

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-lon 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.

Using 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.

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. You can 'squeeze' that extra bit of life from the battery pack by avoiding any unnecessary scanning. In addition, scanning increases the chance of finding a signal thereby keeping the receiver 'awake' and the squelch open more often.

Low Transmit Power Settings

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.

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GENERAL OPERATION

Power On/Off

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. 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 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. When a signal is received, the LED indicator on the upper edge of the radio will light GREEN and the 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 the >>>>> icon appears 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.

Transmitting

To transmit, press and hold the **PTT (Push-To-Talk)** switch. The other radio you are talking to must be set to the same channel. Hold the radio approximately 5 to 8 cm from your mouth with the antenna vertical and speak into the built-in microphone.

While the PTT switch is pressed, the LED indicator on the upper edge of the radio will light RED and the \(\begin{align*} \begin{align*} \lightarrow \lightarrow

TIP: 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.

Selecting Channels

In the 'standby' mode, press the \blacktriangle key to step up one channel or \blacktriangledown the key to step down one channel. Press and hold the \blacktriangle or \blacktriangledown keys to quickly scroll through the channels.

Squelc

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 close the squelch, briefly press the **SQL** key again.

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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 function.

To activate the Keypad Lock press the F key (the F icon will appear) then hold the 💪 key until the radio beeps. The dicon will appear on the display.

To cancel the Keypad Lock, press the F key then hold the 🗗 key again until the radio beeps. The faicon will disappear.

Duplex Operation

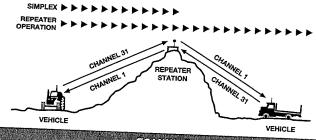
Duplex operation allows the radio to transmit on a different frequency to that which it receives. This allows operation through repeater stations in your area. Repeaters automatically re-transmit your signal over a much wider area, providing greatly increased range. The Duplex mode only works on designated 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.

e.g. If Duplex is selected on channel 1, your radio will receive on channel 1 but will transmit on

Duplex can be enabled or disabled separately on individual channels. When Duplex is enabled on the selected channel, 🖎 is displayed.

The Duplex Mode is set through the Menu. Please refer to the Menu options further below.

Simplex/Duplex Range Comparison



SCANNING

Channel scanning allows you to monitor a sequence of selected channels for incoming signals.

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

To Select Channels for Scanning

- 1. Press the lacktriangle or lacktriangle keys to select the required channel.
- 2. Hold the **SCAN** key until the radio beeps. will be displayed indicating 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 \triangle or \bigvee keys to select the required channel then hold the SCAN key until the radio beeps. Will disappear from the display.

To Scan the Selected Channels

Briefly press the **SCAN** key. The cicon will flash and the channel numbers will change as the radio scans through the channels. While scanning, briefly press the ▲ or ▼ keys to change the scan direction upwards or downwards.

PAGE 10 INSTRUCTION MANUAL TX6150 / TX685 To exit the scan mode, briefly press the **SCAN** key again. 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 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 lacktriangle or lacktriangle keys to 'skip' over the channel and continue scanning.

TIP: The Scan mode will reduce the overall battery life because the Standby (battery saver) feature is overridden. You should avoid scanning if the battery is running low and you need

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

Note that 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 $oldsymbol{S}$ (for CTCSS) or S-- (for DCS). You can now make selected channels 'quiet' by enabling SILENT mode on those

To Activate or Deactivate Silent Mode on a Channel

- 1. Select the required channel.
- 2. Press and hold the SQL 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

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 CTCSS 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.

TX6150 / TX685 INSTRUCTION MANUAL PAGE 11 The Menu key is used to set the various feature settings. The following chart shows the order of

- 1. Duplex (channels 1 8 and 41 48 only)
- 2. CTCSS and DCS Code Selection
- 3. Transmitter Power
- 4. Scrambler Setting
- 5. VOX Settings

- 6. Squelch Level Setting
- 7. Roger Beep Setting
- 8. Button Beep Selection
- 9. Call Alarm Selection
- 10. Dual Watch Channel

Using the Menu

To access the Menu, press and hold the **MENU** key until the radio beeps. Menu options will appear

NOTE: The Duplex menu option will only appear when channels 1-8 or 41-48 are selected. CTCSS/DCS and transmit power settings are inhibited on channels 5/35 (emergency channel).

To step to the next Menu item press the **MENU** key again. To change the options in the selected Menu press the ▲ or ▼ keys. To store your selection and exit the Menu press the PTT.

Duplex Mode Selection

The Duplex option only appears in the Menu if a repeater channel (1 - 8 or 41 - 48) was selected prior to entering the menu. To enable duplex on the selected repeater channel;

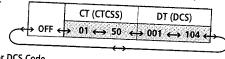
- 1. Select the required repeater channel 1 8 or 41 48 using the \triangle or \blacktriangledown keys.
- 2. Press and hold the ${f MENU}$ key until the radio beeps. The ${f A}{f x}$ icon will flash.
- 3. Press the \blacktriangle or \blacktriangledown keys to toggle 'on' (duplex enabled) or 'oF' (duplex disabled) on the display.
- 4. Press the PTT to store your setting and exit the Menu.

When Duplex is enabled on a repeater channel, the $m{\kappa}$ icon will be displayed whenever that

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 (see table below). When CTCSS tones are being selected 'CT' is displayed. To access DCS codes scroll past CTCSS tone 50



To Select a CTCSS or DCS Code

- 1. Press and hold the MENU key until the radio beeps. 'CT' (for CTCSS) or 'DT' (for DCS) will be
- Press the ▲ or ▼ keys to select the required tone/code.
- 3. To select CTCSS tones 01 to 50 press the lacktriangle or lacktriangle keys while 'CT' is displayed.
- To select DCS codes, hold the ▲ or ▼ key to scroll past the CTCSS tones until 'DT' is displayed. Now use the ▲ or ▼ keys to select the required DCS code 001 to 104.
- 5. To return to CTCSS tones hold the lacktriangle or lacktriangle key until 'CT' is displayed again.
- 6. To turn CTCSS/DCS tanes off, hold the ▼ key to step to the end of the code list until 'oF' is displayed.
- 7. Press the PTT to confirm and store your selection. ${f S}$ or ${f S}^{***}$ is now displayed to confirm the code system you have selected.

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To Enable Silent Mode on a Channel

- 1. Select the required channel.
- 2. Press and hold the SQL key for about 2 seconds. The selected code number will be displayed on
- 3. The selected channel will now remain silent unless a signal is received containing the chosen

..... 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.
- 2. Press and hold the **SQL** key for about 2 seconds. The selected code number will be disappear from 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 applies to all channels (except 5/35). To Set the Transmit Power

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

The radio should now display the selected channel number along with the HI or LO icon to indicate

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. Press and hold the **MENU** key until the radio beeps.
- 2. Briefly press the MENU key repeatedly until 'SR' is displayed. The SCR icon will be flashing.
- Press the ▲ or ▼ keys to select 'on' or 'oF'.
- 4. Press the PTT to confirm and store your selection.

When the scrambler is on the SCR icon is displayed.

NOTE: When the scrambler is enabled, all channels are scrambled.

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

To Set the Radio for VOX Operation

- 1. Press and hold the MENU key until the radio beeps.
- 2. Briefly press the \mathbf{MENU} key repeatedly until 'VX' is displayed.
- 3. Press the $lack \Delta$ or lack V 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

TX6150 / TX685 INSTRUCTION MANUAL PAGE 13

ov. combiggers, set the AOX sensitivity to ,OE, 5. Press the PTT key to confirm and store your selection.

When VOX is enabled, the **e**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.

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 current squelch level will flash.
- 3. Press the \triangle or \bigvee 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 $\ensuremath{\mathbf{PTT}}$ to confirm and store your selection.

Roger Beep Tone

The Roger Beep is a tone which is automatically transmitted whenever the PTT switch is released. This tone alerts 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 **FOG** icon will be flashing.
- Press the ▲ or ▼ keys to select 'on' or 'oF'.
- Press the PTT to confirm and store your selection.

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 lacktriangle icon will be flashing.
- 3. Press the \triangle or \blacktriangledown keys to select 'on' or 'oF'.
- 4. Press the PTT 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 'oF' will be flashing.
- 3. Press the \triangle or \blacktriangledown keys to preview (listen to) the 5 available Call Melodies (1 5).
- 4. To disable the Call Melodies select 'oF'.

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5. Press the PTT to confirm and store your selection.

To Send the Call Alarm Melody

Press the PTT TWICE quickly. The *** icon 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 lets you to monitor two channels at the same time. While in Dual Watch mode, the unit will monitor both the currently selected channel and a second Dual Watch channel.

To Set the Dual Watch Mode

- 1. Use the lacktriangle or lacktriangle keys to select the 'current' channel.
- 2. Press and hold the **MENU** key until the radio beeps.
- 3. Press the MENU key repeatedly until 'du' is displayed. The 🏗 icon will be flashing.
- 4. Press the lacktriangle or lacktriangle keys to select the second 'Dual Watch' channel or select 'oF' to disable the Dual Watch mode.
- 5. Press the PTT to confirm and store your selection.

While Dual Watch is active, the $m{m}$ icon is displayed and the LCD will alternate between the selected channel and the Dual Watch 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 while the radio is paused on that channel then talk in the usual way.
- To talk on the selected channel, press the PTT switch while no signals are being received. The radio will switch to the selected channel. When you have finished your conversation the radio will resume the Dual Watch 5 seconds after the last transmission has ceased.

To stop the Dual Watch, briefly press the \mathbf{SCAN} key. This is equivalent to selecting 'oF' in the Dual Watch menu setting.

		٤	ress troke	FRED	MENGIES		
No.	Frequency	No.	Frequency	No.	Frequency	No.	Frequenc
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	-	234.1
13	103.5	26	162.2	39	69.4		<u> </u>

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D(S CO	DE D	CS CO	DE D	cs co	DE D	cs c	ODE	DCS	COD	E DC	S COL)E
1	02	3 1	9 1	16 3	7 22	5 5	55 3	25	73	450			
2	02	5 2	0 12	22 3	8 22				74	452 454	91	627	-
3	02	6 2	1 12	5 3	9 24:	3 5			75	455	93	631	٠.,
. 4	03	1 2	2 13	1 40	244	5			76		-	632	
5	032	2 23	13.	2 41					77	462	94	654	_
6	036	24	134			4				464	95	662	
7	043	25	143			61			_	465	96	664	
8	047	26	145				-	<u> </u>		466	97	703	1
9					252	62	36	4 8	0 !	503	98	712	
	051	27	152	45	255	63	365	8	1 !	506	99	723	1
10	053	28	155	46	261	64	371	82	? 5	16	100	731	
11	054	29	156	47	263	65	411	83	5	23	101	732	
12	065	30	162	48	265	66	412	84	5	26	102	734	
13	071	31	165	49	266	67	413	85	5.	32	103	743	
14	072	32	172	50	271	68	423	86	54	16	104	754	
15	073	33	174	51	274	69	431	87	56	55			
16	074	34	205	52	306	70	432	88	60	<u> </u>			
17	114	35	212	53	311	71	445	89	61		_		
18	115	36	223	54	315	72	446	90	62		-		

	and the second	UHF (CE OPER/	WING.	FREDUEN	iens.	
CH	Frequenc (MHz)	у сн	Frequenc (MHz)		Frequenc (MHz)	Department of the second	. Courselley
1	476.425	21	476.925	41	476.437	61	(MHz)
2	476.450	22	476.950	42	476.462	4.20	476.9375
3	476.475	23	476.975	43	476,4875	and entrangely	476.9625
4	476.500	24	477.000	44	476.5125		476.9875 477.0125
. 5	476.525	25	477.025	45	476.5375	300	477.0125
б	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

Selection and a selection of the selecti	31
	Emergency use only
Towns your	Telemetry / Selcall use only. Voice transmission is inhibited as required by AS/NZS 4365.2011
	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 / Offroad

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EMONESTREAM

General

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): 57 mm x 102 mm x 35 mm (without antenna)

Complies with: AS/NZS 4365: 2011

Power Supply

Power Source: Li-lon rechargeable - 7.4V DC, 2200 mAh (TX6150)

2000 mAh (TX685)

Operating Time: 10 Hours (High Power)

(Transmit 5%, Receive 5%, Standby 90%)

Receiver

Usable Sensitivity: -121 dBm

Maximum Audio Output: >0.5 watt max. (8 Ohm) Modulation Distortion: <5% (1 kHz 70%)

Transmitter

Transmit Power: Hi 5 watts (TX6150)

3 watts (TX685)

1 watt

NOTE: Specifications are typical unless otherwise indicated and may be subject to change without notice

STANDARD COMMUNICATIONS

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

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
- Z.Z. 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.

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- 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
- 2.7 Send your claim to:

Standard Communications Pty Ltd. PO Box 96 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.

Warranty period

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

PRODUCT TYPE 477 MHz UHF CB portable radios	VYARRANTY PERIOD
To portable radius	2 years

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