

GME

Electrophone

INSTRUCTION MANUAL



TX7000 ***SERIES*** ***PORTABLE UHF*** ***TRANSCEIVER***

**STANDARD COMMUNICATIONS
PTY. LTD.**

CONTENTS

Introduction	3	Dual Watch	12
Getting Started	4	Selecting a Scan Group	12
Standard Controls & Functions	5	Selecting Dual Watch	12
Standard LCD Indicators	6	Programming Your Working Channel	12
Operation of Standard Functions	6	Programming Scan Channels	13
Turning the TX7000 On or Off	6	Selecting Scan	13
Adjusting the Receiver Volume	6	Scanning in Open Scan mode	13
Selecting Channels	6	Scanning in Group Scan Mode	14
Selecting Channels using the		Scanning in Dual Watch Mode	14
Optional Keypad	6	Selective Calling (Selcall)	15
Alphanumeric Labels	7	Overview	15
Activating the Backlighting	7	Receiver Quiet Mode	15
Locking the Keys	7	The Quiet Key	15
Transmitting	7	Sending a Selcall	16
Receiving	8	Sending a Selcall Using the	
Normal Reception	8	Speed Dial Memories	16
The Busy Indicator	8	Programming the 'Call To' Selcall Codes ..	16
Programmable Functions	8	Sending Group Calls	17
The Squelch Key	8	Without keypad	17
Programmed Key Allocations		With the Optional keypad	18
for your Radio	9	Sending DTMF Signals	19
Advanced LCD Indicators	10	Using the DTMF Speed Dial Memories	19
The Low Power Key	10	Using the Optional Keypad	19
Repeaters and Talk Around	10	Side Panel Sockets	20
Repeaters	10	Maintaining your Battery Pack	20
Talk Around	10	Low Battery Indicators	20
CTCSS (Continuous Tone		Battery Charging	21
Coded Squelch System)	11	Cycling the battery	21
The Monitor Key	11	Battery Usage	21
Programming Recall Channels	11	Conserving battery Power	21
Scanning	11	Headset and Speaker Microphone	22
Overview	11	Accessories	23
Scan Groups	12	Care and Maintenance	25
Open Scan	12	Specifications	26
Group Scan	12	Warranty	28

INTRODUCTION

The GME Electrophone TX7000 UHF portable transceiver has been wholly designed and manufactured in Australia by Standard Communications Pty. Ltd. to meet the requirements of commercial hand held users.

The TX7000 combines the very latest in electronic hardware with computer aided design and manufacturing techniques to produce a compact hand held commercial radio with outstanding features, specifications and performance.

FEATURES

- Light weight tough polycarbonate and die cast metal construction.
- Tested to MIL-STD 810C/D/E standards for shock, vibration, humidity, dust and rain.
- Simple-to-use Controls - rotating on/off volume control and pushbutton function keys. An optional keypad is also available.
- Up to 100 simplex and semi-duplex channels with independent CTCSS encode/decode. In addition, all 40 UHF CB channels may be programmed if required.
- Large illuminated alpha-numeric Liquid Crystal Display (LCD) provides a visual indication of all selected functions at a glance.
- Alpha-numeric labelling of selected channels and users simplifies channel selection and identification of incoming callers.
- Built-in Selcall (up to 8 tones) with alphanumeric ANI.
- Five scanning modes available including Dual Watch, "Multi-trunk" (busy channel voting) and Signal Strength voting.
- Transmitter output power of 5 Watts or 1 Watt selectable on individual channels.
- Automatic receiver "sleep" mode coupled with high quality 1000 mAh rechargeable Ni-Cad battery pack ensures long battery life.
- Audible and visual low battery alarms provide advanced warning that the battery pack is becoming discharged.
- Features built-in DTMF signalling using preprogrammed "Speed Dial" keys or with direct entry via the optional keypad.
- Programmable "Kill" code allows the radio to be remotely disabled if it is lost or stolen.
- Keylock feature prevents accidental key presses from altering your settings.

The following items are included with your TX7000

- 1000mAh Battery Pack
- Antenna
- Belt Clip
- Instruction Manual
- Quick Reference Card

If any items are missing or damaged, please contact your dealer or place of purchase.

GETTING STARTED

Your TX7000 is supplied with a 9.6 Volt 1000mAh Nickel Cadmium (NiCad) rechargeable battery pack.

When the battery pack is new, it must be fully charged before being used for the first time.

If left unused, your TX7000's battery pack will discharge itself within a few months. If you have not used your TX7000 for some time, you will need to recharge the battery pack before use.

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

WARNING. Use only GME Electrophone approved battery packs and chargers. The use of any other types may be dangerous and will void any warranty.

REMOVING THE BATTERY PACK

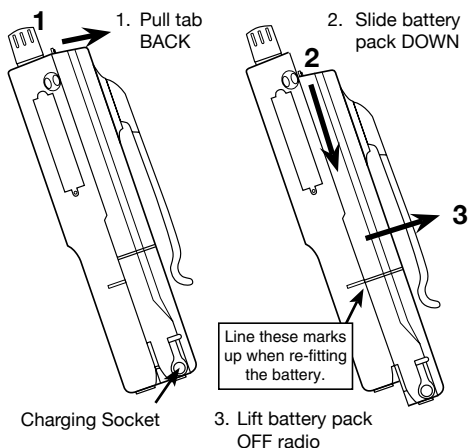
The battery pack is a self contained unit which can be removed from the radio as follows:

1. Hold the radio face down in one hand.
2. With the index finger of the other hand, pull the locking tab away from the radio while pressing down on the top of the battery. The battery pack will slide downwards.
3. Now gently lift the battery away from the radio.

RE-FITTING THE BATTERY PACK

1. Carefully position the battery pack onto the back of the radio so that the groove around the battery pack lines up with the raised mark on the side of the radio.
2. Ensure the battery pack is pressed flat against the radio's metal plate.
3. Slide the battery pack upwards, until the locking tab at the top clicks into place.

Removing the Battery Pack



CHARGING THE BATTERY PACK

Your TX7000's battery pack can be recharged using the BCD6000 drop-in fast charger. The BCD6000 will fast charge a fully discharged battery pack in around 4.5 hours. The charging time will be less if there is still some charge remaining in the battery.

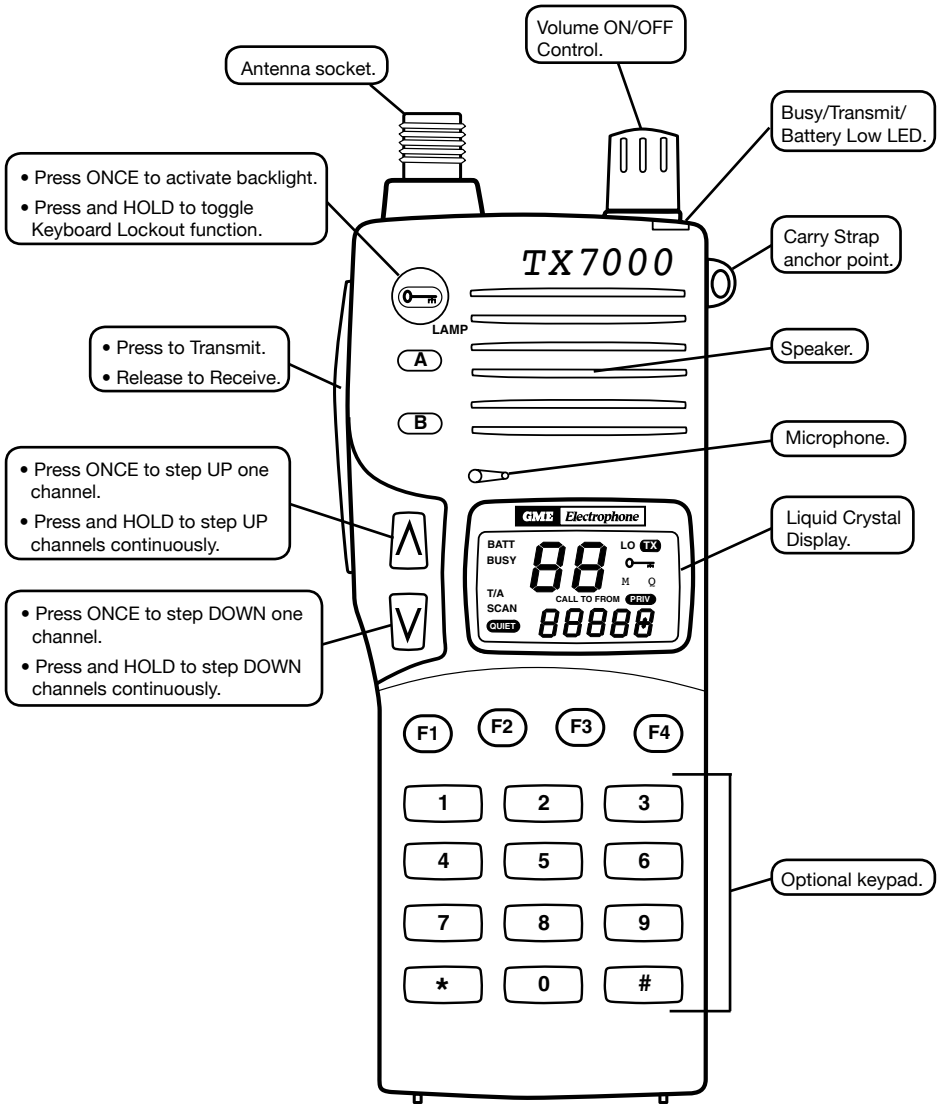
To charge the battery, insert the battery pack (with or without the radio attached) into the charging compartment. The boost charge cycle will begin automatically. When the battery is fully charged, the trickle charge cycle will take over to keep the battery "topped up" until required.

For more information on charging and cycling your battery and tips on conserving battery power, see section on 'Maintaining your Battery Pack' later in this manual.

DO NOT CONNECT YOUR VEHICLE'S BATTERY (13.8 VOLTS) TO THE CHARGING SOCKET AS DAMAGE TO THE RADIO AND BATTERY PACK WILL RESULT WHICH WILL VOID THE WARRANTY.

STANDARD CONTROLS AND FUNCTIONS

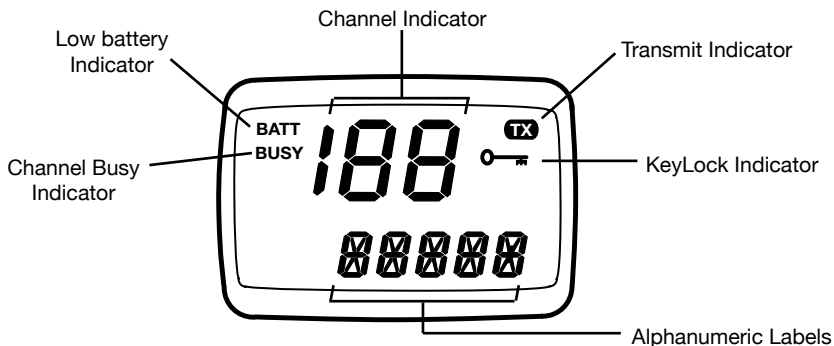
Front Panel Controls



For PROGRAMMABLE Controls, refer to page 9.

Standard LCD Indicators

(For ADVANCED LCD indicators, refer to page 10).



OPERATION AND STANDARD FUNCTIONS

TURNING THE TX7000 ON OR OFF

Rotate the volume control clockwise past the 'click' to turn the TX7000 on. Rotate the control fully counter clockwise past the click to turn the radio off.

ADJUSTING THE RECEIVER VOLUME

While receiving a signal, rotate the volume control to achieve a comfortable listening level.

If there are no signals present and your radio has a **sqelch** key, press it briefly to open the squelch, then adjust the volume while listening to the receiver's background noise. When finished, briefly press the **sqelch** key again to return the receiver to the quiet state.

If your radio does not have a **sqelch** key and there are no signals present, set the volume control to the 11 o'clock position as a starting point.

Note: The minimum setting of the volume control has been factory preset so that, even with the volume turned right down, you can still safely listen to an incoming signal with your ear against the speaker (telephone style).

SELECTING CHANNELS

The channels in your radio are preprogrammed by your dealer and are identified by numbers. In addition, each channel may also be programmed with an identifying name or 'alphanumeric label'. The label appears in the bottom right of the display.

To change channels, briefly press the Δ key to step up one channel or the ∇ key to step down one channel. Holding either Δ or ∇ will cause the radio to step through the channels automatically at a rate of around 4 channels per second. Continuing to hold these keys will step through the channels at a faster rate.

Selecting channels using the optional keypad

If your radio is fitted with a numeric keypad, you may be able to use it to enter channel numbers directly. If you press one of the numeric keys and your radio does not beep and display the number you pressed, the keypad is not enabled for channel entry.

To select channels using the keypad, simply enter the required channel number.

E.g. to select channel 20 press **2****0** on the keypad.

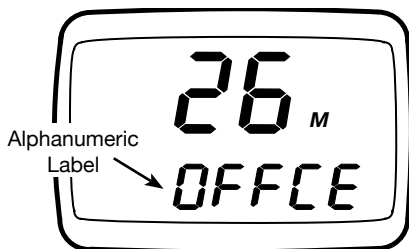
To select single digit channel numbers (e.g. channel 5) either press **0****5** or simply press **5** and wait a moment. The channel display will flash for a few seconds then lock onto channel 5.

*Note: Channel numbers greater than 100 cannot be entered via the keypad. Select channel numbers greater than 100 (e.g. UHF CB installed as channels 101 to 140) by pressing the **A** or **V** key.*

Alphanumeric Labels

As well as identifying channels by their channel numbers, channels may be programmed with a 5 character alphanumeric label. Using labels with meaningful names makes it much easier to identify channels.

e.g. The channel you normally contact your office on might be labelled **OFFCE** while a construction site channel might be labelled **SITE1**. In this way you no longer need to remember which channel numbers to select, you simply select the required channel by its label.



Alphanumeric labels are preprogrammed into your radio by your dealer.

ACTIVATING THE BACKLIGHTING

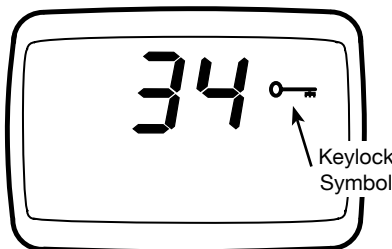
Your TX7000's Liquid Crystal Display (LCD) features built-in backlighting. The backlighting is normally switched off to conserve battery power, but will switch on automatically when any key is pressed. To switch the backlighting on without activating any other functions, briefly

press the **☰** key. The backlighting will turn off automatically after 5 seconds.

LOCKING THE KEYS

Use the **☰** key to disable the keys on the front of the radio. This will prevent unintentional key presses from making accidental calls or altering your settings. While the keys are disabled, only the Push-to-talk switch and the **☰** and lamp functions will be available.

To lock the keys, press and hold the **☰** key until a high beep is heard. The **☰** symbol will appear on the display.



To unlock the keys and restore them to normal operation, press and hold the **☰** key until a low beep is heard. The **☰** symbol will disappear from the display.

TRANSMITTING

Before transmitting, check to see if the channel is already in use (i.e. **BUSY** will be displayed and the LED on the top of the radio will be green). If the channel is busy, you should wait until it is clear before transmitting.

To transmit, press the Push-To-Talk (PTT) switch on the left-hand side of the radio and speak into the built-in microphone located just below the speaker. Hold the radio about 2 - 6 cms from your mouth and slightly to one side so that you are speaking across the microphone, not directly into it. When talking, speak at a normal voice level. The microphone is quite sensitive so it is not necessary to raise your voice or shout.

Note: Your radio may have been programmed to prevent you from transmitting when the channel

is already in use. If this is the case, pressing the PTT switch while the channel is busy will result in a low beep and the transmitter will not function.

RECEIVING

Note: Your radio may be programmed with options that could affect the way your radio behaves when it receives a call from another radio.

Normal Reception

Your radio will normally be muted (squelled) so that it is quiet when there are no signals. When a transmission is received, the radio will automatically unmute itself to allow you to hear the call.

The BUSY Indicator

Whenever the channel is active, the **BUSY** indicator will appear on the display and the green LED on the top of the radio will light. However, depending on the muting options programmed into your radio, you may not always hear any sound from the speaker. This can happen when others are sharing the channel but their calls are not meant for you. For this reason it is important that you visually check that the channel is not busy before making a call to ensure you do not accidentally talk over someone else. In some cases your radio may be programmed with 'Busy Channel Lockout' to prevent you from transmitting while the channel is busy.

PROGRAMMABLE FUNCTIONS

The TX7000 can be programmed to suit specific customer requirements by enabling only those features that are useful to the customer's operation.

The following section describes all the additional features available in the TX7000. In most cases only a few of these features will be enabled in a TX7000 at any one time. Many of the front panel keys are able to perform multiple functions depending on how they are programmed. In addition many of the functions can be programmed into more than one key which means that no specific key can be addressed as performing a particular function. It is therefore a matter for your dealer to inform you of the keys that are enabled and what their functions are. You can then refer to this manual to learn how to use the specific functions with which you have been provided.

THE SQUELCH KEY

The Squelch (or mute) is used to eliminate any annoying background noise when there are no signals present. The TX7000 features a pre-set squelch system. The squelch level has been factory set internally to provide optimum

performance. The squelch function can be switched ON or OFF using the **Squelch** key. When the squelch is OFF, the receiver's background noise will be heard (unless Quiet is enabled), the BUSY indicator will appear on the display and the LED above the speaker will be green. When the squelch is ON, the receiver will remain quiet when there are no signals present, but an incoming signal will overcome the squelch action and be heard in the speaker.

To disable the squelch, briefly press the **Squelch** key. A low beep will be heard. If there are no signals present, you will hear the receiver's background noise.

To re-enable the squelch, briefly press the **Squelch** key again. A high beep will be heard.

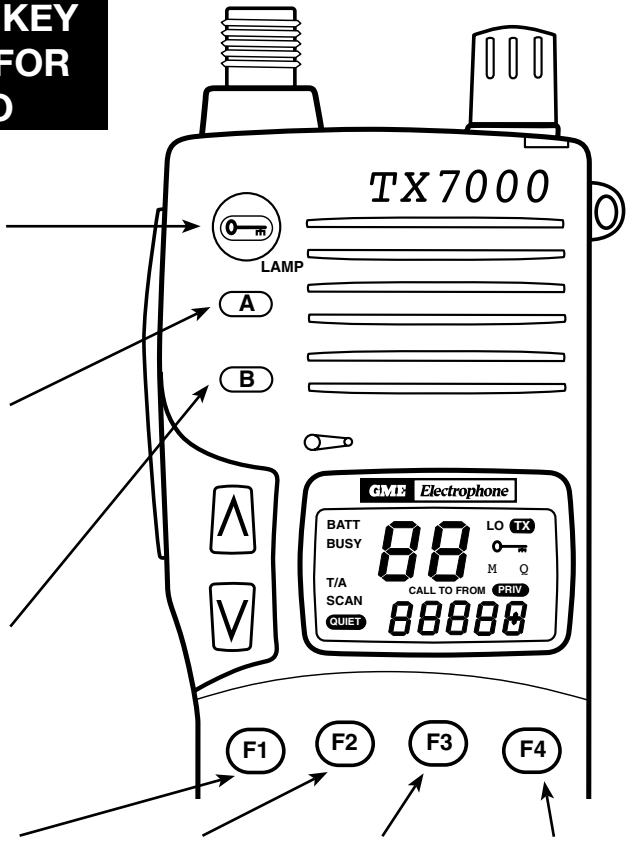
*Note: Disabling the squelch will allow you to listen to all other callers on the channel, unless Selcall is in use and the **Quiet** key has been pressed as indicated by the **QUIET** icon on the display.*

PROGRAMMED KEY ALLOCATIONS FOR YOUR RADIO

Key Lock	✓
Lamp	✓
Selcall Programming	

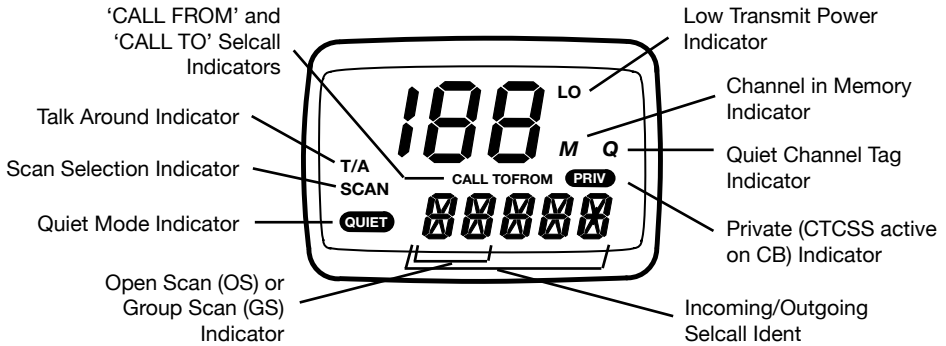
No Operation	
Quiet	
Scan / Mem	
Low power	
Squelch	
Talk Around	

No Operation	
Scan / Mem	
Low power	
Squelch	
Talk Around	
Call	



Function	F1	F2	F3	F4
No Operation				
Quiet				
Scan / Mem				
OS / GS				
Low Power				
Squelch				
Talk Around				
Channel Recall	Ch: _____	Ch: _____	Ch: _____	Ch: _____
Selcall Speed Dial	Id: _____	Id: _____	Id: _____	Id: _____
Selcall Speed Dial with Channel Recall	Id: _____ Ch: _____	Id: _____ Ch: _____	Id: _____ Ch: _____	Id: _____ Ch: _____
DTMF Speed dial	No: _____	No: _____	No: _____	No: _____
DTMF Speed Dial with Channel Recall	No: _____ Ch: _____	No: _____ Ch: _____	No: _____ Ch: _____	No: _____ Ch: _____
Monitor				

Advanced LCD Indicators



Important: The TX7000 has a battery saver function that increases the life of the batteries during normal use. The battery saver does not function when the squelch is turned off. To ensure a long battery life between charges we recommend the squelch be disabled only for short periods as necessary to check the channel is clear or to receive a weak signal.

THE LOW POWER KEY

The Low Power key is used to change the output power of the transmitter from its maximum level of 5 watts down to 1 watt. There are a number of reasons why you might want to use low power, but the main reason would probably be to conserve battery power. If you need to get the maximum use between charges and you spend a fair proportion of the time transmitting on the radio, then selecting low power can increase battery life quite dramatically. Obviously, you must also be in close proximity to the other radios or the nearby repeater otherwise your lower powered signal may not get through.

To select Low Power mode:

Briefly press the **Low Power** key. A low beep will be heard and **LO** will appear on the display.

To return to High Power mode:

Briefly press the **Low Power** key again. A high beep will be heard and **LO** will disappear from the display.

REPEATERS AND TALK AROUND

Repeaters

Some of the channels in your radio may be programmed for operation through a repeater system. The repeater is a transmitter/receiver system installed in a high location. It is used to increase the range of your radio by receiving your calls and automatically re-transmitting them. Because your receiver and transmitter will be operating on different channels, you will not be able to talk directly to another radio except through the repeater.

Talk Around

The Talk Around feature is designed to overcome the problem of not being able to talk directly to another radio when a repeater channel is selected. It may be necessary to talk to another radio when you are out of range of the repeater. Instead of being isolated and not able to communicate, you can press the **Talk Around** button (if programmed) to force the radio to transmit and receive on the same channel. This will allow you to talk to other radios within direct range of your radio. Of course, the radio you want to talk to must also select **Talk Around** if they want to talk back to you. Note that the distance over which you can communicate will be much less than it would be through the repeater.

To select Talk Around:


Briefly press the **Talk Around** key. A high beep will be heard and **T/A** will appear on the display. You can now talk to the other radio in the usual way.

To cancel Talk Around:

Briefly press the **Talk Around** key again. A low beep will be heard and **T/A** will disappear from the display.

CTCSS (Continuous Tone Coded Squelch System)

CTCSS is an automatic coded squelch system that allows groups of radio receivers to remain quiet until they receive a call encoded with a specific squelch tone. The receiver's squelch then opens to allow the call to be heard and closes again when the call is finished. Other radios sharing the same channel but programmed with a different squelch tone will not hear the call. Similarly, calls made to other radios that use a different squelch tone will not be heard by your radio. In this way several groups of radios can share the same channel but be almost unaware of each other's existence. One main advantage of CTCSS is that it is fully automatic with no special operation required by the user.

*Note: If using UHF CB channels with CTCSS, the CTCSS tones can be enable or disabled using the **Squelch** key. Whenever CTCSS is enabled on CB channels, the  icon is displayed.*

THE MONITOR KEY

The monitor key is used to monitor (listen) to a channel that would normally remain squelched (quiet) under the control of a CTCSS tone. When CTCSS is being used, there may be other users talking on the channel (i.e. you will see the **BUSY** icon appear on the display and the Green LED on top of the radio will light), but you will not be able to hear anything. Pressing the **Monitor** key overrides the CTCSS squelch code to allow you to hear these signals. The **Monitor** key is often used to check that the channel is clear before transmitting.



To listen for signals on the channel:

Press and **HOLD** the **Monitor** key to listen for signals on the channel. A high beep will be heard as the key is pressed. The key must be held down continuously for the signals to be heard. Release the key to return to quiet CTCSS operation. You will hear a low beep.

*Note: Pressing the **Monitor** key does not open the Squelch, it simply overrides the CTCSS tone decoder. If there are no signals on the channel, the radio will still remain quiet and no receiver noise will be heard.*

PROGRAMMING RECALL CHANNELS

The four function keys (F1 - F4) have the ability to be programmed for use as Recall channels including the use of one of them as your working (priority) channel. These allow you to select an often-used channel with a single key press. Recall channels can either be preset by the dealer, or made user programmable to allow you to store your own selection of channels. If one or more of these keys are enabled for use as user programmable recall channels, you can program your own channels as follows:

1. Select the channel you wish to store using the  or  keys.
2. Press and **HOLD** the appropriate Channel Recall key (**F1 - F4**). The channel display will flash for a second or so, then the radio will beep. The channel is now stored.
3. Repeat steps 1 and 2 to program any other Channel Recall keys that may be available.

SCANNING

Your dealer may have a scanning feature programmed into your radio. If so, the following section describes how to use this feature.

Overview

The scanning function allows the radio to step through a number of selected channels while searching for signals. If a signal is found, the radio will pause on that channel to allow the signal to be heard. When the signal has gone,

the radio will resume scanning for further signals. Exactly how the scanning feature reacts to a signal will depend on the options programmed into your radio.

In the following section your working channel (sometimes called the Priority channel) is defined as the channel where others would normally expect to be able to contact you and is most probably where you would do most of your communicating.

Scan Groups

There are two possible scan groups available. These are called **Open Scan (OS)** and **Group Scan (GS)**. Your radio may be programmed with either one of these groups or it may have both groups programmed. In addition, your radio may also be fitted with a **Dual Watch** feature.

- **Open Scan** allows any of the fitted channels to be scanned in an ascending sequence (i.e. from the lowest channel number to the highest).
- **Group Scan** also allows any of the fitted channels to be scanned in an ascending sequence but in addition, it also inserts your main working channel into the scan sequence. Your working channel is then monitored regularly while scanning to ensure that no calls are missed. Any signal received on your working channel has priority and will override any signals received on the other channels.
- **Dual Watch** allows you to listen to one selected channel while continuing to monitor your working channel. As with Group Scan, your working channel has priority and will override any signals received on the other channel.

Selecting a Scan Group:

If you have been given the option of selecting scan groups, one of the function keys on your radio will be programmed for **OS/GS** selection. The current scan group is normally displayed on the LCD as **OS** for Open Scan or **GS** for Group Scan.

To change the scan group:

Briefly press the **OS/GS** key. A beep will be heard and the display will change to indicate the group you have selected.

Note: To select a scan group, you will first need to select a channel that does not have an alphanumeric label. OS and GS will only appear on channels not programmed with an alphanumeric label. If the selected channel has an alphanumeric label, OS or GS will not be displayed because that section of the LCD is used by the label. However, OS and GS will be displayed on those channels when the radio is scanning.

Therefore, to select a scan group on radios where all channels have alphanumeric labels:

- Press the **Scan** key to activate scanning.
- Select the required scan group with the **OS/GS** key. **OS** or **GS** will be displayed.
- Press the **Scan** key again to cancel scanning.

The radio will remain in the selected scan group.

Selecting Dual Watch

To select the Dual Watch feature:

Press and HOLD the **OS/GS** key until a high beep is heard. The **SCAN** and **DW** icons will appear at the bottom of the display along with the channel number of your working channel.

To cancel the Dual Watch feature:

Press and HOLD the **OS/GS** key until a low beep is heard. The **SCAN** and **DW** icons will disappear from the display.

Note: If there is no OS/GS key preprogrammed on your radio, then your scan group will have been preset for you by your dealer.

Programming your Working (Priority) Channel:

For the purpose of Group Scan or Dual Watch,

your Working Channel can only be programmed by your dealer. When programmed, the working channel becomes the channel of priority in the Group Scan and Dual Watch modes.

Programming the Scan Channels:

Depending on your application, *EITHER*:

1. Your scan channels will have been pre-programmed for you by your dealer,

OR,

2. You will have been given the option to program your own group of channels.

If you are able to program your own scan channels, please read the following section.

To program the scan channels:

1. Select the required scan group using the **OS/GS** key.
2. Select the required channel using the Δ or ∇ keys.
3. Press and *HOLD* the **Scan** key until a high beep is heard. **M** will appear on the display to indicate the channel is now stored in memory.
4. Repeat steps 2 and 3 to add other channels to the scan memory.

To remove channels from the scan memory:

1. Select the required scan group - either Open Scan (OS) or Group Scan (GS).
2. Select the required channel using the Δ or ∇ keys. Check that **M** is displayed indicating that the channel is in the scan memory.
3. Press and *HOLD* the **Scan** key until a low beep is heard. **M** will disappear from the display to indicate the channel is no longer in memory.
4. Repeat steps 2 and 3 to remove other channels from the scan memory

Selecting Scan:

Once you have your selected groups programmed, you can scan the channels in these groups using the Scan key.

To begin scanning:

1. Briefly press the **Scan** key. A high beep will be heard and the radio will begin scanning.
2. Press the **OS/GS** key (if fitted) to select the required scan group. **OS** or **GS** will be displayed.

To cancel scanning:

Briefly press the **Scan** key again. A low beep will be heard and the radio will stop scanning

Scanning in Open Scan Mode

While scanning in Open Scan mode, the radio will display rapidly changing numbers to indicate the channels being scanned. In addition the lower section of the LCD will display **OS** (indicating the Open Scan mode is selected), along with the number of the last selected channel. If any channels have alphanumeric labels, the labels will not be displayed while scanning.

Receiving on a busy channel:

If a signal is received, the receiver will lock onto that channel and will remain there for as long as the channel is busy - and for 5 seconds after the transmission ceases. This allows the TX7000 to hold the channel between short breaks in the conversation. Once the channel has remained clear for 5 seconds, the radio will resume scanning.

Skipping over a busy channel:

If you don't wish to listen to a busy channel, you can skip over it by briefly pressing the Δ or ∇ keys. The receiver will immediately resume scanning.

Holding onto a busy channel:

To manually hold a busy channel, briefly press

Setting the Dual Watch mode:

1. Select the required other channel using the **A** or **V** keys.
2. Press and **HOLD** the **OS/GS** key until a high beep is heard. **SCAN** will appear and the channel display will switch rapidly between the two channels. In addition, **DW** will appear at the bottom of the display, along with your working channel number.

Operating in the Dual Watch Mode:

Operation in the Dual Watch mode is identical to the Group Scan mode, with the selected channel acting as a single group channel. As with Group Scan, signals on your working channel will have priority over those on the selected channel.

Talking on the Working Channel:

To talk on the working channel while Dual Watching, simply press the PTT switch. The TX7000 will go straight to the working channel and will remain there for as long as the channel remains active. During this time you can converse normally on the channel even though Dual Watch is still selected. When your conversation has finished and the channel has been inactive for 5 seconds, the radio will resume Dual Watching .

SELCALL (SELECTIVE CALLING)

Overview

If Selcall has been enabled on your radio, it will have been pre-programmed with its own unique identifying code. Your radio may also allow you to transmit these Selcall codes, allowing you to call others who are also using the Selcall system.

'Selective Calling' is a secure signalling system that allows individual radios to be selectively called without disturbing other radio's sharing the same channel. Each radio can be pre-programmed with a unique code (called a Selcall Ident). The radio can then be set to remain totally quiet while it monitors the channel for Selcall signals. Any incoming Selcall code is compared with its own code. If the two

codes match, it knows it is being called and sounds an alarm to alert you. It also displays the caller's unique code or an alphanumeric label identifying the caller to you. In this way, even if you are away from your radio when the call is received, you will still know that you were called. You can then return the call at your convenience. If further calls are received, the most recent caller is displayed.

A special group code may also be available to you which will allow specific groups of radios to be selectively called without disturbing other individuals or groups.

Receiver Quiet Mode

The Selcall "Quiet" function overrides the normal squelch operation, forcing the radio to remain quiet even if signals are being received - *until someone transmits your Selcall code*. The "Quiet" mode will then be disabled, an alarm will sound, and you will be able to converse normally on that channel.

If your radio is programmed with a **Quiet** key, you will be able to manually set your receiver's Selcall "Quiet" muting system. If not, your radios quiet muting system will have been preset for you by your dealer.

The QUIET key

If fitted, the **Quiet** key can be used with Selcall to enable or disable quiet operation.

- When Quiet is enabled, you will not hear any signals on the channel until someone specifically calls you using Selcall.
- When Quiet is disabled, you will be able to hear all transmissions on the channel.

When quiet is enabled, you will see the **QUIET** icon on the display.

Your radio may be programmed to allow you to decide which channels you wish to use as quiet channels. This allows you to tag selected channels to remain quiet until you receive a Selcall, while others will remain open to all signals. The **Quiet** key is also used to tag these channels.

the PTT switch. Scanning will pause and **M** will be displayed. You can now transmit and receive on that channel in the usual way. **SCAN** will still be displayed to remind you that the Scan function is only inhibited temporarily.

To resume scanning press the **or** keys. **M** will disappear and scanning will resume.

To cancel scanning:

Briefly press the **Scan** key.

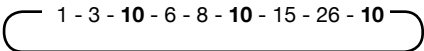
- If the radio was stopped on a busy channel when scan was cancelled, it will remain on that channel.
- If the radio was scanning when scan was cancelled, it will return to the last selected channel (as displayed in the bottom right of the display).

Scanning in Group Scan Mode

Scanning in Group Scan mode will allow you to transmit and receive normally on your working (priority) channel but will also let you scan and listen to several other channels when the working channel is free. The receiver will continue to scan the other Group Scan channels ONLY WHILE THERE ARE NO SIGNALS ON THE WORKING CHANNEL. Pressing the PTT switch at any time will take you straight to your working channel.

The working channel is normally scanned after every second Group Scan channel (although this can be altered by your dealer).

e.g. Using working channel 10 with group Scan channels 1, 3, 6, 8, 15 and 26



As with the Open Scan mode, your radio will display rapidly changing numbers to indicate the channels being scanned. In addition the lower section of the LCD will display GS to indicate that it is the Group Scan mode, along with the working channel number. If any channels have alphanumeric labels, the labels will not be displayed while scanning.

Receiving Signals on the Working Channel.

If a signal appears on the working channel while scanning, the receiver will lock onto the channel and will remain there for as long as the channel is busy - and for 5 seconds after the transmission ceases. This allows the TX7000 to hold the channel between short breaks in the conversation. Once the channel has remained clear for 5 seconds, the radio will resume scanning.

If a signal appears on the working channel while your radio is locked onto a Group Scan channel, the receiver will switch straight to the working channel. The receiver will now continue to monitor the working channel for as long as it remains busy. During this time you can transmit on the working channel in the usual way.

Receiving Signals on a Group Scan Channel

If a signal is received on a Group Scan channel, the receiver will lock onto it and will remain there for as long as the channel remains busy, and for 5 seconds after the transmission ceases - AS LONG AS THERE ARE NO SIGNALS ON THE WORKING CHANNEL. During this time, the receiver will continue to check for signals on the working channel every couple of seconds resulting in a series of small breaks in the reception of the "locked" channel. If no signals are heard on the "locked" channel after 5 seconds, the radio will resume normal scanning.

To stay on a busy Group Scan channel, briefly press the **Scan** key. The radio will exit the Scan mode and stay on the busy channel. You can now transmit normally on that channel.

Note: At this point the radio will no longer be monitoring your working channel.

To resume Group Scan briefly press the **Scan** key again.

Scanning in the Dual Watch Mode

The Dual Watch mode provides a simple alternative to scanning by allowing you to monitor your working channel and one other selected channel.

be heard and **Call To** will be displayed, along with a maximum 5 digit Selcall number. Note that the right hand digit will be flashing. This flashing digit is the digit to be programmed.

2. Press the **▲** or **▼** keys to increase or decrease the value of the flashing digit until the number you want is displayed.
3. Now briefly press the **Call** key and the next digit to the left will flash.
4. Repeat steps 3 and 4 until all digits have been programmed and the required Selcall code is displayed.
5. Now press and **HOLD** the **Call** key to transmit the Selcall code. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent.

*Note: You must send the Selcall code within 20 seconds of the last key press otherwise the **Call To** mode will be cancelled and the code will be lost.*

If your Selcall is successful, you will hear two quick beeps in the speaker. This is an acknowledge signal, sent back to you from the radio you called. It is used to confirm to you that your Selcall was received.

- For radios *with* a numeric keypad, use the following procedure to enter and send a Selcall code:

1. Briefly press the **Call** key. A high beep will be heard and **Call To** will be displayed, along with a maximum 5 digit Selcall number. Note that the right hand digit will be flashing. This flashing digit is the digit to be programmed.
2. Enter the required Selcall code using the numeric keypad. At each key press, the selected digit will appear in the right hand flashing digit position, pushing the other digits towards the left.
3. Continue until all digits have been entered and the required Selcall code is displayed.

4. Now press and **HOLD** the **Call** key to transmit the Selcall code. The LED on top of the radio will light red and the TX indicator will appear on the display as the Selcall code is sent.

*Note: You must send the Selcall code within 20 seconds of the last key press otherwise the **Call To** mode will be cancelled and the code will be lost.*

If your Selcall is successful, you will hear two quick beeps in the speaker. This is an acknowledge signal, sent back to you from the radio you called. It is used to confirm to you that your Selcall was received.

Storing Frequently Used Selcall Codes

The function keys (**F1 - F4**) can be used to store up to four frequently used Selcall codes. These codes can then be recalled whenever you need to send a Selcall.

To Store a Selcall:

1. To enter the required code, refer to the section above, under the heading '**Programming the "Call To" Selcall codes**'.
- For radios *without* a numeric keypad follow the first section up to step 4 to display the required Selcall code. Do not send the Selcall.
- For radios *with* a numeric keypad follow the second section up to step 3 to display the required Selcall code. Do not send the Selcall.
2. With the required Selcall code displayed, press and **HOLD** one of the four function keys (**F1, F2, F3** or **F4**) until a high beep is heard. The Selcall code is now stored under that function key.

To Recall and Send a Selcall Code:

1. Briefly press the **Call** key. **Call To** will be displayed along with a maximum 5 digit Selcall code. _____
2. Briefly press the function key (**F1 - F2**) which holds the Selcall code you wish to recall. The code will be displayed. (If you can't

To tag a channel for use in the Selcall quiet mode:

1. Select the required channel number using the **[A]** or **[V]** keys.
2. Press and **HOLD** the **Quiet** key until a high beep is heard.

The **Q** icon will appear on the display, indicating that the selected channel is now tagged for use with Selcall in the quiet mode.

3. Repeat steps 1 and 2 to tag any other channels.

To activate the Quiet mode:

1. Select a channel which has been tagged for quiet operation (**Q** will be visible on the display)
2. Briefly press the **Quiet** key.

A high beep will be heard and the **QUIET** icon will appear on the display.

Now all channels that have been tagged for quiet operation will stay quiet unless a Selcall is received. Channels that are not tagged will still allow all signals to be heard.

To de-activate the quiet mode:

1. Select a channel that has been tagged for quiet operation (**Q** and **QUIET** will be visible on the display)
2. Briefly press the **Quiet** key.

A low beep will be heard and **QUIET** icon will disappear from the display.

Sending a Selcall

There are several ways to make a Selcall transmission. The method you use will depend on the options programmed into your radio.

Sending a Selcall using the Selcall "Speed Dial" memories:

Selcall "Speed dial" memories are used when

your radio has been preprogrammed with the necessary Selcall codes for your group, with no provision to manually alter them.

"Speed Dial" memories are programmed into one or more of the function keys (**F1 - F4**).

To send a Selcall using a "Speed Dial" memory, press and HOLD the appropriate key (**F1, F2, F3** or **F4**) until a two-tone beep is heard. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent.

If your Selcall is successful, you will hear two quick beeps in the speaker. This is an acknowledge signal, sent back to you from the radio you called. It is used to confirm to you that your Selcall was received.

Sending a Selcall using the Selcall "Speed Dial" memories with "Channel Recall":

Your "Speed Dial" memories may have been programmed to automatically go to a specific channel before sending your Selcall signal.

To send a Selcall using a "Speed Dial" memory programmed with "Channel Recall", press and HOLD the appropriate key (**F1, F2, F3** or **F4**) until a two-tone beep is heard. The radio will change to the preprogrammed channel, the LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent. The radio will then stay on the preprogrammed channel.

If your Selcall is successful, you will hear two quick beeps in the speaker. This is an acknowledge signal, sent back to you from the radio you called. It is used to confirm to you that your Selcall was received.

Programming the "Call To" Selcall Codes:

The method you use will depend on whether you have a numeric keypad fitted.

- For radios *without* a numeric keypad, use the following procedure to enter and send a Selcall code:

1. Briefly press the **Call** key. A high beep will

press, the selected digit will appear in the right hand flashing digit position, pushing the other digits towards the left.

3a. To send a Selcall to ten consecutively numbered radios, press the # key for the last digit. This will insert an **A** which will substitute for any other number in the last digit position. Therefore if the number you had entered was **1234A**, you would actually be sending a Selcall to ten radios numbered **12340, 12341** etc. to **12349**.

3b. To send a Selcall to one hundred consecutively numbered radios, press the # key for the last two digits. This will insert **AA** which will substitute for any other number in the last two digit positions. Therefore if the number you had entered was **123AA**, you would actually be sending a Selcall to one hundred radios numbered **12300, 12301** etc. up to **12399**—

5. Now press and *HOLD* the **Call** key to transmit the Selcall code. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent.

*Note: You must send the Selcall code within 20 seconds of the last key press otherwise the **Call To** mode will be cancelled and the code will be lost.*

You will not hear an acknowledge signal from the other radios when sending group calls otherwise you would be swamped with up to 100 radios all trying to transmit back at once.

SENDING DTMF (DUAL TONE MULTI FREQUENCY) SIGNALS

DTMF signaling can be used for dialling telephone numbers or activating devices by remote control. If DTMF is available on your radio, the method you will use to send DTMF signals will depend on the options programmed into your radio.

Using the DTMF "Speed Dial" memories:

DTMF "Speed dial" memories are used when your radio has been preprogrammed with the

necessary DTMF tone sequences for your application, with no provision to manually alter them.

DTMF "Speed Dial" memories are programmed into one or more of the function keys (**F1 - F4**).

To send a DTMF signal using a "Speed Dial" memory, press and *HOLD* the appropriate key (**F1, F2, F3** or **F4**) until a high beep is heard. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the DTMF tone sequence is sent.

Using the DTMF "Speed Dial" memories with "Channel Recall":

Your DTMF "Speed Dial" memories may also have been programmed to automatically go to a specific channel before sending your DTMF signal.

To send a DTMF signal using a "Speed Dial" memory programmed with "Channel Recall", press and *HOLD* the appropriate key (**F1, F2, F3** or **F4**) until a high beep is heard. The radio will change to the preprogrammed channel, the LED on top of the radio will light red and the **TX** indicator will appear on the display as the DTMF signal is sent. The radio will then stay on the preprogrammed channel.

Using the optional numeric keypad:

You may be able to manually send DTMF signals by entering the required sequence directly on the keypad.

To manually send a DTMF tone sequence:

Press and *HOLD* the PTT switch (on the side of the radio) while pressing the required numbered keys on the keypad. Briefly press each key firmly, *waiting* for the tone to finish after the key is released before pressing the next key. The DTMF tones you are sending will be heard in the speaker as each key is pressed. When you have finished, release the PTT switch.

remember which function key holds the required code, press each one until the correct code appears).

3. Now press and *HOLD* the **Call** key to transmit the code. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent.

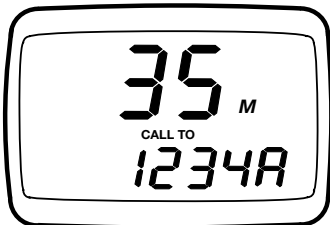
Sending GROUP Selcall signals

A Group Selcall signal works much the same way as a single Selcall signal except that more than one radio will be called. Group calls can be made to groups of up to ten radios, or groups of up to 100 radios depending on how your radio is programmed.

If your radio is fitted with Group calling, you can make group calls as follows:

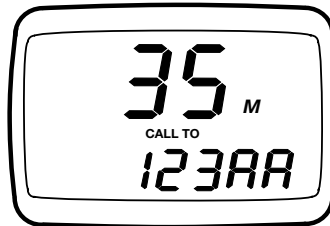
Radio's without the optional Keypad:

1. Briefly press the **Call** key. A high beep will be heard and **Call To** will be displayed, along with a Selcall number. Note that the right hand digit will be flashing. This flashing digit is the digit to be programmed.
 2. Press the Δ or ∇ keys to increase or decrease the value of the flashing digit until the number you want is displayed.
 3. Now briefly press the \leftarrow key and the next digit to the left will flash.
 4. Repeat steps 2 and 3 until all but the last digit have been programmed.
- 5a. To send a Selcall to ten consecutively numbered radios, use the Δ or ∇ keys to select **A** for the last digit. This will be used to substitute for any other number in the last digit position.



Therefore if the number you had entered was **1234A**, you would actually be sending a Selcall to ten radios numbered **12340**, **12341** etc. to **12349**.

- 5b. To send a Selcall to one hundred consecutively numbered radios, use the Δ or ∇ keys and the \leftarrow key to select **A** for the two last digits. These will be used to substitute for any other number in the last two digit positions.



Therefore if the number you had entered was **123AA**, you would actually be sending a Selcall to one hundred radios numbered **12300**, **12301** etc up to **12399**.

6. Now press and *HOLD* the **Call** key to transmit the Selcall code. The LED on top of the radio will light red and the **TX** indicator will appear on the display as the Selcall code is sent.

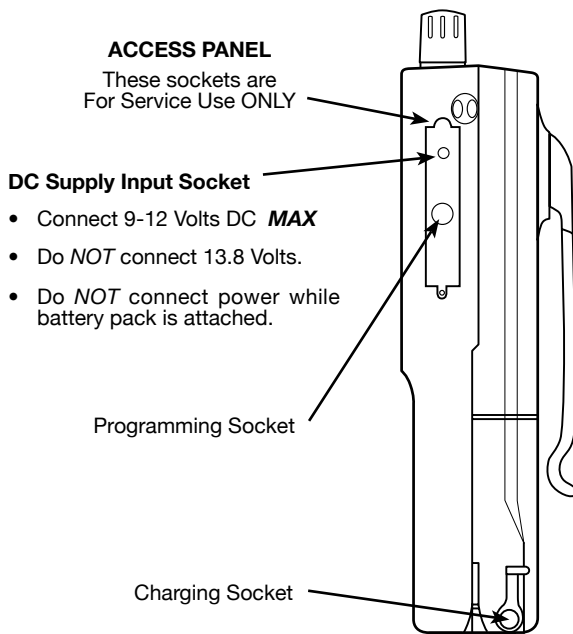
*Note: You must send the Selcall code within 20 seconds of the last key press otherwise the **Call To** mode will be cancelled and the code will be lost.*

You will not hear an acknowledge signal from the other radios when sending group calls otherwise you would be swamped with up to 100 radios all trying to transmit back at once.

Radios with the optional Keypad:

1. Briefly press the **Call** key. A high beep will be heard and **Call To** will be displayed, along with a Selcall number. Note that the right hand digit will be flashing. This flashing digit is the digit to be programmed.
2. Enter all except the last digit of the Selcall code using the numeric keypad. At each key

SIDE PANEL SOCKETS



MAINTAINING YOUR BATTERY PACK

convenient recharging facility nearby), the following hints can greatly reduce the amount of power drawn from the battery pack.

Sleep Mode: The TX7000 will automatically enter the 'Sleep' mode after around 20 seconds of inactivity (i.e. no transmission or reception).

While sleeping, it will still check for incoming signals but it will draw only about one fifth of the power from the battery. As soon as a signal is received or any keys are pressed, the TX7000 will wake up again. This sleep function is automatic and by itself can greatly extend the battery life in standby mode by many hours.

Quiet Mode: If 'Quiet' mode is selected, the TX7000 will remain 'asleep' on Quiet channels even if they are busy unless your Selcall Ident is received.

Continuously monitoring a busy channel will reduce the battery life because incoming signals will keep the receiver awake and the squelch will stay open for longer periods of time. This will draw much more power from the battery pack. In addition, scanning several channels increases the chance of finding a signal thereby keeping the receiver awake and the squelch open more often.

If you are expecting to receive a Selcall on a busy channel, program that channel for 'Quiet' operation and select the Quiet mode. The TX7000 will then stay 'asleep' until your Selcall Ident is received.

Low Transmit Power Setting: The transmitter has both High and Low power settings. If you are only operating over short distances, are in a

For information on removing, fitting and recharging the battery pack, refer to 'GETTING STARTED' on page 4 of this manual.

DO NOT CONNECT YOUR CAR BATTERY DIRECTLY TO THE CHARGING SOCKET OR THE DC SUPPLY SOCKET, AS DAMAGE TO THE RADIO AND BATTERY PACK WILL RESULT WHICH WILL VOID THE WARRANTY.

Your TX7000 is supplied with a 9.6 Volt 1000 mAh Nickel Cadmium (NiCad) rechargeable battery pack.

When the battery pack is new, it must be fully charged before being used for the first time. If left unused, your TX7000's battery pack will discharge itself within a few months. If you have not used your TX7000 for some time, you will need to recharge the battery pack before use.

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

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

LOW BATTERY INDICATORS

When the battery voltage drops to around 9 Volts, your TX7000 will give 6 quick beeps, **BATT** will flash on the display and the Tx/Busy LED will flash 'Orange' to indicate that the battery needs to be charged. You should recharge the battery pack as soon as possible.

If you have been transmitting using the High Power setting, you can extend the battery life by switching to Low transmit power.

BATTERY CHARGING

It is recommended that you charge your TX7000's battery using the BCD6000 fast charger. The BCD6000 can recharge your battery pack in around 4.5 hours, less if there is still some charge remaining. The charger will

then switch to trickle charge mode to keep the battery topped up until needed.

USE ONLY GME ELECTROPHONE APPROVED CHARGERS. USE OF OTHER TYPES MAY BE DANGEROUS AND WILL VOID THE WARRANTY. **DO NOT CONNECT YOUR VEHICLE'S 13.8 VOLT BATTERY SUPPLY TO THE CHARGING SOCKET AS DAMAGE WILL RESULT.**

CYCLING YOUR BATTERY PACK

Batteries last longer and have better performance if they are allowed to completely discharge about once a month. The BCD6000 desk top charger has a built in battery conditioning circuit that will completely cycle a fully charged battery pack in around 9 hours. A partially discharged battery pack will cycle in less time.

BATTERY USAGE

The time taken to discharge the battery pack will depend on how you use your TX7000. The 1000 mAh battery pack is powerful enough for a full days use under average conditions.

Generally when using low power you can expect to get around 14 hours of life based on 5% transmit, 5% receive and 90% standby (sleeping). However, this time will vary depending on how you use it. e.g. whether you are scanning, using the QUIET mode, transmitting on high or low power or monitoring a busy channel. The "Conserving Battery Power" section below provides hints on how to get the most time between charges from your battery.

If you begin to notice that the life of your battery pack is not what it used to be, but your usage has not changed, you may need to 'cycle' your battery.

Conserving Battery Power

The TX7000 has built in power saving features to help you get the maximum amount of time between charges from your Nicad battery pack. If you need to operate your TX7000 in a situation where you require maximum battery life (e.g. a remote site where there is no

reasonably high location or are close to a local repeater, try using the LOW transmit power setting. This reduces the transmitter power from 5 Watts to 1 Watt, effectively tripling the 'talk' time available.

Single Channel Operation: The TX7000 draws more power from the battery when scanning than when monitoring a single channel. This is because it must wake more often to monitor each channel for activity. You can squeeze that extra bit of life from the battery by avoiding any unnecessary scanning.

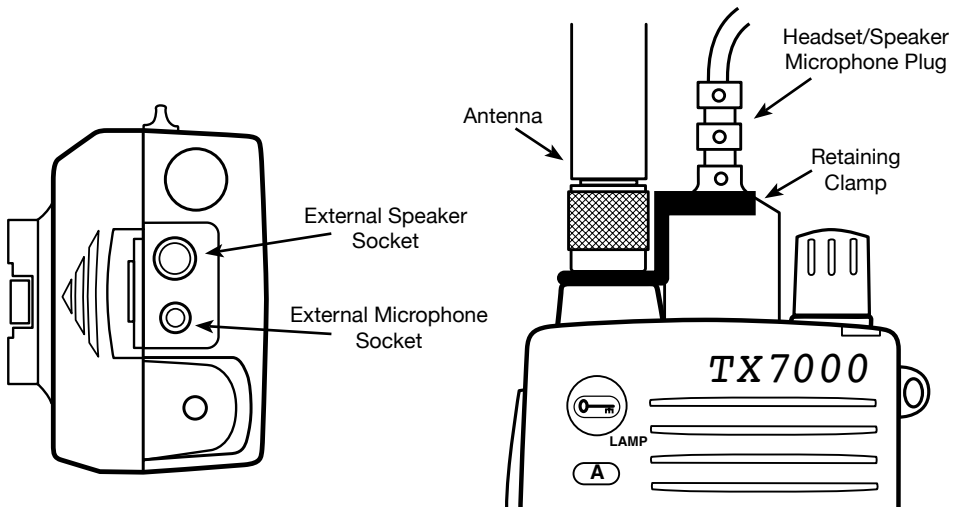
HEADSET AND MICROPHONE OPTIONS

The TX7000 is fitted with sockets to allow connection of the optional MC6000 speaker microphone or HS7000 headset with boom microphone. When plugged in, these devices provide full remote speaker, microphone and push-to-talk facilities (the internal speaker and built-in microphone will be temporarily disabled).

To fit the external headset or speaker microphone, first unscrew and remove the antenna. Plug the headset or speaker microphone into the sockets on the radio's top

panel. Fit the retaining bracket over the antenna socket and refit the antenna. Tighten the antenna firmly to clamp the retaining bracket and headset/speaker microphone plug. This will prevent the plug from being inadvertently detached from the radio. Use only the specified models. Other brands of headset or speaker microphone will provide reduced performance or may not work at all.

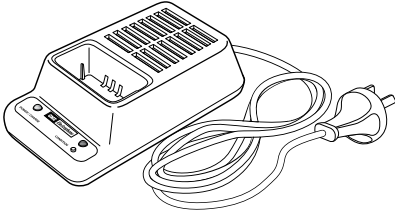
Alternatively, you may wish to connect an 8 Ohm extension speaker to the speaker output socket.



ACCESSORIES

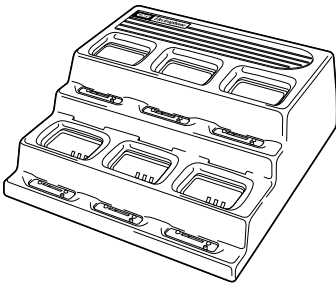
BCD6000

Fast charges a fully discharged battery pack, with or without the radio attached in about 4.5 hours. Automatically switches to trickle charge when the fast charge cycle is completed. The battery can be left on trickle charge indefinitely without damage. The built-in battery conditioner will safely recycle the battery by discharging it to its minimum voltage, then fully recharging it again. LED indicators show fast charge or battery conditioning status.



BCS7000

6-unit battery charger, providing the functionality of 6 BCD6000's in one console.



BCT6000

Plug pack trickle charger.

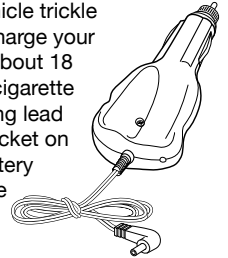
AE7000HG

2dB gain flexible antenna provides increased range over the standard antenna supplied with your TX7000.



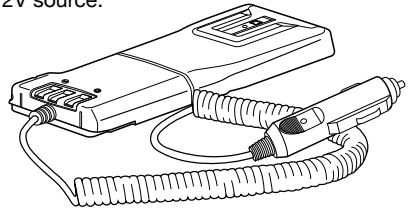
BCV6000

The optional BCV6000 vehicle trickle charger will allow you to charge your TX7000's battery pack in about 18 hours from your vehicle's cigarette lighter socket. The charging lead plug's into the charging socket on the bottom right of the battery pack and allows you to use the TX7000 while it is charging.



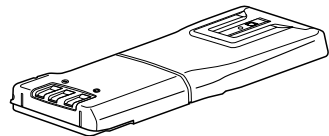
BE6000

Battery eliminator replaces the BP7000 battery pack, enabling the TX7000 to be operated from a 12V source.



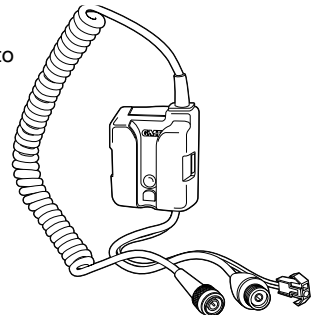
BP7000

1000mAh Ni-Cad battery pack.



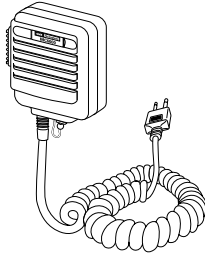
CK6000

Car installation kit, to enable the TX7000 to be used in a vehicle fitted with a mounted antenna, while trickle charging the battery.



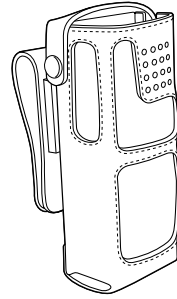
MC6000

Remote speaker microphone with earphone monitor jack and retaining clip.



LCH7000

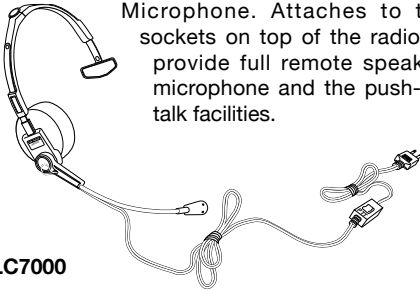
Leather belt holster with swivel retaining strap.



and

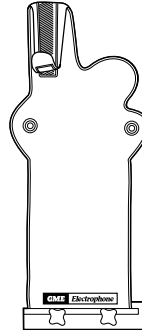
HS7000

Optional lightweight headset with Boom Microphone. Attaches to the sockets on top of the radio to provide full remote speaker, microphone and the push-to-talk facilities.



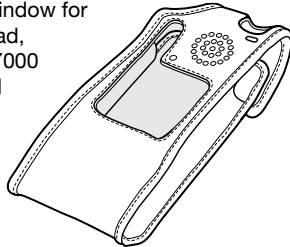
CC04

Waterproof pouch to enable use of TX7000 in wet conditions.



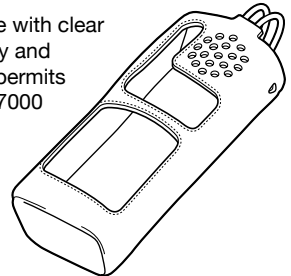
LC7000

Leather carry case with clear window for display and keypad, protects your TX7000 from damage and general wear and tear.



LCM7000

Leather carry case with clear window for display and numeric keypad; permits connection of HS7000 and MC6000.



CARE AND MAINTENANCE

Your TX7000 is a quality product and should be treated with care. The following suggestions will help keep your transceiver in good condition for many years.

- Keep your TX7000 dry. Your transceiver is not waterproof and will be damaged by exposure to water and other liquids.
- Clean your TX7000 when necessary using a soft cloth lightly dampened with a mild soap-and-water solution. DO NOT use cleaning solvents or strong detergents.
- Store your TX7000 where it will NOT be exposed to excessive heat. High temperatures can damage batteries, shorten the life of electronic components and melt certain plastics.
- Do not drop the unit. We recommend you purchase one of the range of leather cases designed specifically for the TX7000. These will provide a much greater degree of protection if the unit is dropped and will also protect the transceiver from general wear and tear.

There are no user serviceable parts inside. If your TX7000 becomes damaged or is not working correctly, return it to your nearest authorised dealer or GME branch office for repair.

SPECIFICATIONS

GENERAL

Switching Frequency

Range: 450 to 500 MHz (TX7045)
450 to 520 MHz (TX7052)

Number of Channels: 100 + 40 UHF CB channels.

Channel Spacing: 25 or 12.5 kHz Versions

Operation Mode: Simplex or Half Duplex with Repeater
Talk-around.

Scanning Speed: 100ms per channel.

Antenna Impedance: 50 Ohms Nominal.

Operating Voltage

Range: 8 to 12.4 Volts.

Nominal Battery

Voltage: 9.6 Volts.

Reverse Polarity

Protection: Shunt Diode.

Frequency Stability: ± 5 PPM.

Operating

Temperature: -10° to $+60^{\circ}$ C.

TRANSMITTER

RF Output: High: 5 Watts.
Low: 1 Watt.

Spurious Emissions: < -70 dBc.

Modulation: FM.

Maximum Deviation: $< \pm 5$ kHz @ $+20$ dB limiting, 25 kHz channeling.
 $< \pm 2.5$ kHz @ $+20$ dB limiting, 12.5 kHz channeling.

Transmit Frequency

Response: $+6$ dB per Octave
300 Hz to 3 kHz, $+1$ dB
 -3 dB.

Audio Signal to Noise: > 45 dB.

Current Consumption: 1.8 Amp @ 5 Watts Output.
0.6 Amps @ 1 Watt Output.

RECEIVER

Circuit Type: Double Conversion Superheterodyne.

Intermediate

Frequencies: 1st: 45 MHz.
2nd: 455 kHz.

Current Consumption: 15mA Sleep.
60 mA Standby.
190mA Max. Audio Output.

Sensitivity: -121 dBm for 12 dB SINAD.

Selectivity (25kHz

Channel Spacing): -6 dB @ ± 7.5 kHz.
 -74 dB @ ± 25 kHz.

Intermodulation

Immunity: -78 dB.

Blocking Immunity: -95 dB.

Spurious Response

Immunity: -70 dB.

Audio Power: 0.5 Watt @ $< 10\%$ Distortion.

Audio Signal to Noise: 45 dB.

Receive Frequency

Response: -6 dB per Octave de-emphasis 300 Hz to 3 kHz, $+1$ dB -3 dB.

Conducted Spurious

Emission: < -57 dBm.

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

WARRANTY

GME ELECTROPHONE limit this warranty to the original purchaser of the equipment.

GME ELECTROPHONE warrant this product to be free from defects in material and workmanship for a period of twenty four (24) months from the date of purchase from their authorised dealer.

GME ELECTROPHONE warrant the battery pack used with this product to be free from defects in material and workmanship for a period of three (3) months from the date of purchase from their authorised dealer.

Should the product require servicing during this period, all labour and parts used to effect repairs will be supplied free of charge. GME ELECTROPHONE reserve the right to determine whether damage has been occasioned by accident, misuse or improper installation whereby the warranty would be void, including:

Equipment which has been damaged due to:

(a) Incorrect or reverse polarity connection to a battery or power supply.

(b) Connection to incorrect supply voltage.

(c) Operation without an antenna or by connection to an antenna which has been incorrectly installed, resulting in damage to the transceiver's output transistors.

(d) Effects of water or moisture penetration.

(e) Non-factory modifications.

Procedure to be followed by claimant: In the event of a defect occurring during the warranty period, the original Purchaser may return the defective unit along with suitable proof of purchase date (i.e. receipt, docket, credit card slip etc.) and a full description of the defect to the Dealer from whom the unit was purchased.

All freight charges incurred for transportation by the Dealer or GME ELECTROPHONE are the Purchaser's responsibility.

The Dealer will forward it to the closest authorised GME ELECTROPHONE Service Depot in your particular State.

GME ELECTROPHONE AFTER SALES SERVICE

Your ELECTROPHONE transceiver is especially designed for the environment encountered in domestic or mobile installations. The use of all solid state circuitry, careful design and rigorous testing, result in high reliability. Should failure occur however, GME ELECTROPHONE maintain a fully equipped service facility and spare parts stock to meet the customer's requirements long after expiry of the warranty period.



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