

# TRX<sup>®</sup>

## TRX-05 SERIES UHF CB RADIO



**TRX-05W**

**USER MANUAL**



## CONTENTS

<b>1.0</b>	<b>CAUTIONS AND RECOMMENDATIONS</b> .....	<b>3</b>
<b>2.0</b>	<b>USER LICENSE INFORMATION</b> .....	<b>4</b>
<b>3.0</b>	<b>INTRODUCTION</b> .....	<b>4</b>
3.1	Features .....	5
3.2	Product Overview .....	6
3.3	LCD Screen .....	7
<b>4.0</b>	<b>GETTING STARTED</b> .....	<b>7</b>
4.1	Battery Information .....	7
4.2	Inserting The Batteries.....	8
<b>5.0</b>	<b>USING RECHARGEABLE BATTERIES</b> .....	<b>8</b>
<b>6.0</b>	<b>OPERATION</b> .....	<b>9</b>
6.1	Power ON/OFF .....	9
6.2	Adjusting The Volume .....	9
6.3	Low Battery Level Indicator.....	9
6.4	Transmitting/Receiving.....	9
6.4.1	Receive .....	9
6.4.2	Transmit.....	10
6.5	Changing Channels.....	10
6.6	CTCSS Privacy Channels .....	11
<b>7.0</b>	<b>VOX (HANDS FREE FUNCTION)</b> .....	<b>11</b>
7.1	Channel Scan .....	12
7.2	Squelch Off Function .....	13
7.3	Call Tones.....	13

7.4	Roger Beep .....	13
7.5	Backlit Display .....	14
7.6	Battery Save Function.....	14
7.7	Built-In Led Torch .....	14
7.8	Button Lock .....	14
7.9	Specifications.....	15
7.10	UHF Channels & Frequencies .....	15
7.11	UHF Frequency List .....	17
<b>8.0</b>	<b>WARRANTY TERMS &amp; CONDITIONS .....</b>	<b>19</b>
<b>9.0</b>	<b>NOTES .....</b>	<b>21</b>

## 1.0 CAUTIONS AND RECOMMENDATIONS

- This UHF CB Handheld Radio is not waterproof. Do not use near or around water or moisture.
- If you carry any kind of personal medical device, please consult a doctor before using the Radios.
- Do not use the Radios in a potentially explosive setting (e.g. around pumps, on the lower deck of a boat or around a fuel storage area or around chemical products), or near blasting caps.
- Ensure Radios are turned off if on an airplane or in a hospital.
- Please seek advice from your Physician if you intend to use this CB in proximity to Medial Devices such as Pacemakers, Hearing Aids etc to ensure they are adequately shielded from RF energy.
- To avoid interference, avoid using the Radios near traditional radios.
- Clean the Radios with a damp cloth. Don't use any cleaning agents or solvents for cleaning.
- Do not modify the Radios in any way. In the event of damage occurring, ensure that the Radios are checked by a qualified professional.
- Remove the batteries when Radios are not used for an extended period of time.
- Do not mix used and new batteries to power the Radios.
- Please note that the Radios cannot be used to contact the emergency services.

## 2.0 USER LICENSE INFORMATION

The Citizen Band Radio Service (CBRS) is a two-way, short distance, communications service that can be used by any person in Australia and New Zealand, whether it is for recreational or domestic purposes, or in connection with work or business.

CBRS may be used for:

1. Any form of voice communications activity
2. Telemetry and telecommand applications.

This unit complies with Australian and New Zealand approval requirements AS/NZS 4365:2011 including radio communications (Electromagnetic Radiation Human Exposure) standard 2003.

## 3.0 INTRODUCTION

Thank you for purchasing this TRX-05XX series UHF 80 Channel CB Radio. Light and easy to use, TRX compact UHF CB's are ideal for kids and family activities. Featuring an inbuilt LED torch, these UHF CB's are great for camping, holidays, workplaces and anywhere reliable short-range communication is required.

Please read through the instructions carefully to ensure you get the most out of your new CB.

### 3.1 FEATURES

- Up to 3km\* communication range
- 80 channels
- 0.5W Transmit power
- Backlit LCD display
- Battery Level display
- Channel scan
- VOX (Hands free function)
- Auto Squelch
- 10 different call tones
- 38 CTCSS Privacy codes
- Squelch off function
- Integrated LED torch
- Button lock
- Uses AAA Alkaline and rechargeable batteries. Includes USB cable for recharging batteries (please only use NiMH rechargeable AAA batteries).

\*In an open area. Range may vary due to environmental and/or topographical conditions.

**NOTE:** Each UHF CB Handheld Radio requires 3 x AAA batteries (not included).

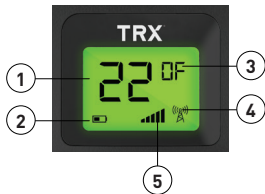
## 3.2 PRODUCT OVERVIEW



- |                                  |                              |
|----------------------------------|------------------------------|
| 1. PPT (Transmit) Button         | 7. Menu / Lock Button        |
| 2. Power On/Off Button           | 8. LCD Screen                |
| 3. Channel Down / Squelch Button | 9. Microphone                |
| 4. Speaker                       | 10. Torch Button             |
| 5. Antenna                       | 11. Channel Up / Scan Button |
| 6. LED Torch                     | 12. USB Charging Port        |



### 3.3 LCD SCREEN



1. Channel Indicator
2. Battery Level Indicator
3. CTCSS Code / OFF
4. Transmit/Receive Indicator
5. Volume Level

### 4.0 GETTING STARTED

#### 4.1 BATTERY INFORMATION

1. Each Radio uses 3 x AAA alkaline or 3 x rechargeable AAA batteries for power (not included).
2. We highly recommend the use of superior quality batteries for maximum life and range.
3. To avoid damage to the radio do not mix old and new batteries.
4. To prevent the batteries from deteriorating, remove them from the radio if it will not be used for a long period of time.

## 4.2 INSERTING THE BATTERIES

1. Ensure the Radio is turned off before inserting/replacing batteries.
2. Remove the rear belt clip from the device. To remove the belt clip, pinch and hold belt clip at the top of the CB and slide the belt clip up.
3. Remove the battery cover by sliding it down while pressing the cover arrows then lift it away.
4. Insert 3 x AAA batteries according to the polarity symbols inside the battery compartment.
5. Replace the battery cover by placing it on the back of the CB radio and slide upwards until it locks in place.
6. Re-install the belt clip as required.

## 5.0 USING RECHARGEABLE BATTERIES

TRX CB radios can be powered using rechargeable Ni-MH batteries and are supplied with a direct USB charging cable for each CB.



**NOTE:** You can only use the direct USB charging cable for rechargeable batteries. Do not attempt to recharge non-rechargeable batteries as this may result in battery leakage and CB damage.

1. To recharge rechargeable batteries ensure they are in their correct position inside the Radio with the battery cover inserted.
2. Insert the micro USB cable into the Radio then insert the other end of the cable into the power



source port. Charging time is approximately 12 hours.

## 6.0 OPERATION

### 6.1 POWER ON/OFF

1. Switch on the Radio: Press the Power button . The CB will beep to indicate it is powered up and the LCD screen will illuminate.
2. Switch off the Radio: Press and hold on the Power button  for 3 seconds until you hear a beep sound.

### 6.2 ADJUSTING THE VOLUME

1. To increase the volume, press the Up  button.
2. Press the Down  button to decrease the volume.
3. The volume level can be seen on the Volume Level Indicator.

### 6.3 LOW BATTERY LEVEL INDICATOR

When the battery level gets low, the battery icon on the LCD screen will flash and a beep sound will be made indicating that the batteries need to be replaced (for disposable batteries) or recharged (for rechargeable batteries).

### 6.4 TRANSMITTING/RECEIVING

#### 6.4.1 RECEIVE

**NOTE:** The radio is always in standby mode when it is turned on and not transmitting. When a signal is received on the current channel, the LCD will display this via the Transmit/Receive indicator.

#### 6.4.2 TRANSMIT

When you press the PTT Transmit button, the Radio switches to Transmission mode.

1. Hold the device in a vertical position with the Microphone 3-5cm away from your mouth.
2. While holding the PTT button, speak into the microphone in a normal tone of voice.
3. Release the PTT button when you have finished transmitting.

**NOTE:** For others to receive your transmission, they must be on the same channel (and CTCSS code if selected) as you.

**NOTE:** The optimal transmit range for this CB is achieved in flat, open outdoor areas. This is reduced where there are obstructions such as buildings or rough terrain, or when the CB is used in confined spaces such as vehicle to vehicle communications.

Do not use these CB's when less than 1.5m apart as this may cause interference.

#### 6.5 CHANGING CHANNELS

1. Press the MENU button once. The channel number will flash on the LCD screen.
2. Press the UP ▲ /DOWN ▼ button to change the channel.
3. Press the PTT button briefly to confirm the channel and return to standby mode.

**NOTE:** If no button is pressed within 10 seconds during channel setting, the Radio will return to standby mode.

## 6.6 CTCSS PRIVACY CHANNELS

Continuous Tone-Coded Squelch System or CTCSS is used to reduce the annoyance of listening to other users on a shared two-way radio communications channel. It is sometimes referred to as privacy channels or sub-channels since it has the effect of creating multiple virtual channels which are all using the same radio frequency. It does not encrypt the transmission, rather it mutes other transmissions on the same CB channel that are not transmitting using a CTCSS virtual channel. To activate:

1. Press the MENU button twice. The current CTCSS code will flash on the display.
2. Press the UP ▲ /DOWN ▼ button to change the code. There are 38 available codes.
3. Press the PTT button to confirm and return to standby mode.
4. Individual channels can be assigned different CTCSS codes.
5. Always ensure the CB's are set to the same CTCSS code (or set to OFF – shown as "OF" on the LCD display) otherwise you will not hear the transmissions from the other CB's.

## 7.0 VOX (HANDS FREE FUNCTION)

In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you. To activate this function:

1. Press the MENU button three times: the current VOX setting – “OF”, “1”, “2” or “3” - will flash on the display with the VOX icon.
2. Press UP ▲ button to set the VOX sensitivity level. - There are three levels – 1, 2, 3. Level 3 is the highest sensitivity level
3. Press DOWN ▼ button until “OF” appears on the display to turn off VOX
4. Press the PTT button to confirm VOX level chosen and return to standby mode.
5. VOX Operation is not recommended if you use your device in a noisy or windy environment.

**NOTE:** VOX mode will be overridden when you press the PTT button.

## 7.1 CHANNEL SCAN

Channel Scan is useful to scan the available CB channels to either find who is transmitting nearby or to find a free channel to transmit on.

1. Press and hold the UP ▲ button 2 seconds. The “SCAN” function indicator will appear on the LCD screen display and the channel will scan continuously. Once an active channel is found, the scanning will stop and you can listen to the transmission.
2. When the transmission on the found channel stops, the scanning will resume automatically.

**NOTE:** If you press PTT button while listening to a found channel, the device will go back to standby mode on the found channel.

## 7.2 SQUELCH OFF FUNCTION

Squelch blocks the background noise while there are no transmissions on the selected channel present. For weak signals, you can disable squelch by pressing and holding the DOWN ▼ button.

## 7.3 CALL TONES

Call tones are a separate tone that can be transmitted by the CB to alert other listeners that a transmission is just about to commence. The Radio has 10 different selectable call tones.

1. Press the MENU button 4 times until "CA" is displayed on the LCD screen display and on the current call tone number (or off setting) is displayed.
2. Press the UP ▲ /DOWN ▼ button to scroll through the different call tones available.
3. Press the PTT button to confirm your selected call tone and return to standby mode.
4. To send a call tone, press the PTT button briefly. A call tone is then sent. Once the call tone stops, press the PTT button again to re-commence transmission.
5. The call tone will only be sent again once there is a pause of 20 seconds or more between transmissions.

## 7.4 ROGER BEEP

After the PTT button is released at the end of a transmission, the Radio can send out a Roger beep to confirm that you have stopped talking.

1. Press the MENU button 5 times: "RO" will be displayed on the LCD screen.
2. Press the UP ▲ /DOWN ▼ button enable or disable the Roger beep – turn it ON or OFF.
3. Press the PTT button to confirm your selection and return to the standby mode.

#### **7.5 BACKLIT DISPLAY**

Press any button to activate the LCD backlight. The back light stay activated for approximately 5 seconds.

#### **7.6 BATTERY SAVE FUNCTION**

When the Radio has not been used for 6 seconds, battery save mode is automatically activated. This does not affect reception or transmission and standby mode is automatically re-activated as soon as a signal is detected.

#### **7.7 BUILT-IN LED TORCH**

The Radio has a built-in LED light that can be used for lighting needs. Press the LED Light Button when required.

#### **7.8 BUTTON LOCK**

1. Press and hold MENU button for 3 seconds to lock the device.
2. Press and hold MENU button for 3 seconds to unlock the device.



## 7.9 SPECIFICATIONS

**Channels:**

80

**RF Output Power:**

0.5W max

**Frequency:**

476.4250 – 477.4125  
Mhz

**Battery:**

3 x AAA (not included)

**Range:**

Up to 3km in an  
open area

## 7.10 UHF CHANNELS & FREQUENCIES

### LEGALLY RESTRICTED

#### Channel 5 and 35

These are reserved as Emergency channels and should only be used in an Emergency.

#### Channels 22 and 23

These are reserved for telemetry, telecommand and packet data. Transmission on these channels is blocked on this CB.

#### Channels 61, 62 and 63

Reserved for future allocation and Transmission on these channels is blocked on this CB.

### SPECIAL USE

#### Channel 10

4WD Clubs or convoys and National Parks

#### Channel 11

Is the calling channel and should be used to initiate contacts/conversations. Once this is done, you should then change to a free channel.

**Channel 18**

RV – Caravanner and Campers Convoy Channel

**Channel 29**

HWY – road safety channel Pacific Hwy, Pacific Motorway (NSW & QLD)

**Channel 40**

Australia wide road safety channel – primarily used by Truckies and Pilot Vehicles.

**GENERAL CHANNELS****Channels 1-8 & 31-38 plus 41-48 & 71-78**

Duplex Channels. These channels are used for Duplex operation in areas where there is a repeater which provides extended range. If there is no repeater in the area, these channels can also be used for standard communication.

**NOTE:** This CB Radio does not have Duplex operation.

**Channels 9, 12-17, 19-21, 24-28, 30, 39, 49-60 & 79-80**

General communication channels at all times.

## 7.11 UHF FREQUENCY LIST

Below is a complete listing of the channels available and their corresponding frequencies:

<b>CHANNEL</b>	<b>FREQUENCY</b>	<b>CHANNEL</b>	<b>FREQUENCY</b>
Channel 1	476.4250	Channel 22	476.9500
Channel 2	476.4500	Channel 23	476.9750
Channel 3	476.4750	Channel 24	477.0000
Channel 4	476.5000	Channel 25	477.0250
Channel 5	476.5250	Channel 26	477.0500
Channel 6	476.5500	Channel 27	477.0750
Channel 7	476.5750	Channel 28	477.1000
Channel 8	476.6000	Channel 29	477.1250
Channel 9	476.6250	Channel 30	477.1500
Channel 10	476.6500	Channel 31	477.1750
Channel 11	476.6750	Channel 32	477.2000
Channel 12	476.7000	Channel 33	477.2250
Channel 13	476.7250	Channel 34	477.2500
Channel 14	476.7500	Channel 35	477.2750
Channel 15	476.7750	Channel 36	477.3000
Channel 16	476.8000	Channel 37	477.3250
Channel 17	476.8250	Channel 38	477.3500
Channel 18	476.8500	Channel 39	477.3750
Channel 19	476.8750	Channel 40	477.4000
Channel 20	476.9000	Channel 41	476.4375
Channel 21	476.9250	Channel 42	476.4625

## UHF FREQUENCY LIST CONT'

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
Channel 43	476.4875	Channel 66	477.0625
Channel 44	476.5125	Channel 67	477.0875
Channel 45	476.5375	Channel 68	477.1125
Channel 46	476.5625	Channel 69	477.1375
Channel 47	476.5875	Channel 70	477.1625
Channel 48	476.6125	Channel 71	477.1875
Channel 49	476.6375	Channel 72	477.2125
Channel 50	476.6625	Channel 73	477.2375
Channel 51	476.6875	Channel 74	477.2625
Channel 52	476.7125	Channel 75	477.2875
Channel 53	476.7375	Channel 76	477.3125
Channel 54	476.7625	Channel 77	477.3375
Channel 55	476.7875	Channel 78	477.3625
Channel 56	476.8125	Channel 79	477.3875
Channel 57	476.8375	Channel 80	477.4125
Channel 58	476.8625		
Channel 59	476.8875		
Channel 60	476.9125		
Channel 61			
Channel 62			
Channel 63			
Channel 64	477.0125		
Channel 65	477.0375		

## 8.0 WARRANTY TERMS & CONDITIONS

Our goods come with guarantees that cannot be excluded under the Australian & New Zealand 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.

This warranty is provided in addition to your rights under the Australian & New Zealand Consumer Law.

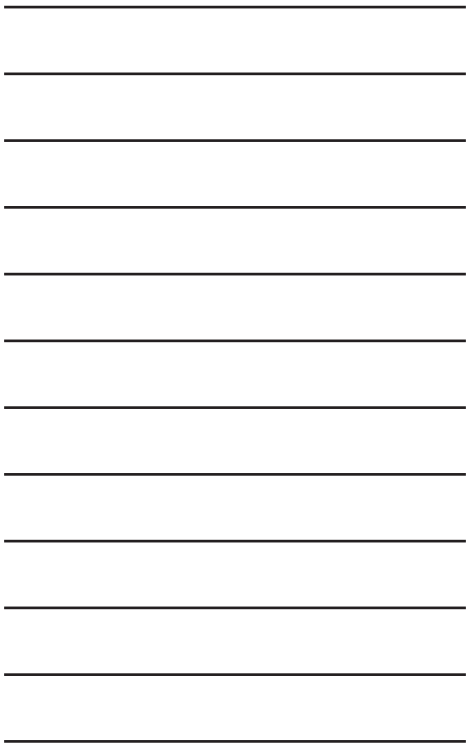
Directed Electronics warrants that this product is free from defects in material and workmanship for a period of 12 months from the date of purchase or for the period stated on the packaging. This warranty is only valid where you have used the product in accordance with any recommendations or instructions provided by Directed Electronics.

This warranty excludes defects resulting from alterations of the product, accident, misuse, abuse or neglect.

In order to claim the warranty, you must return the product to the retailer from which it was purchased or if that retailer is part of a National network, a store within that chain, along with satisfactory proof of purchase. The retailer will then return the goods to Directed Electronics. Directed Electronics will repair, replace or refurbish the product at its discretion. The retailer will contact you when the product is ready for collection. All costs involved

in claiming this warranty, including the cost of the retailer sending the product to Directed Electronics, will be borne by you.









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