

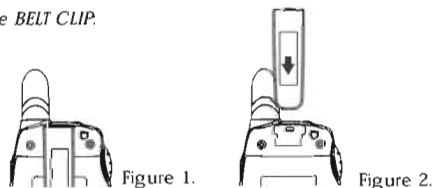
### Communicator Controls

1. **Antenna**
2. **LCD Screen:** Displays current channel selection and other radio status symbols.
3. **Torch** button: Press and hold to turn on the torch.
4. **Up** button (VOLUME/CHANNEL): Press to adjust volume level and change channels.
5. **Down** button (VOLUME/CHANNEL): Press to adjust volume level and change channels.
6. **Call** button: Press to transmit CALL TONES.
7. **Battery Compartment** (LOCATED ON THE REAR): Houses 3 x "AAA" alkaline or Ni-MH rechargeable batteries (not included).
8. **Speaker**
9. **Battery Compartment Cover Latch** (LOCATED ON THE REAR): Secures Battery Compartment cover.
10. **SCAN** button: Press and hold 1 sec. for channel scanning. Press once to switch on/off repeater function.
11. **Mic:** Microphone.
12. **Menu/Power (On/Off)** button: Press and hold the button to turn your unit ON/OFF. Allows you to change channels, select high/low power. Press to tune in and hold onto weak signals.
13. **PUSH TO TALK** button: Press to transmit.
14. **TX** (Transmission) **LED indicator:** Illuminates red when transmitting. Lights up once every 15 seconds to show battery low.
15. **LED Torch**
16. **Belt Clip** (LOCATED ON THE REAR)

### Getting Started

Carefully remove your communicator from its Packing. If there is any visible damage, do not attempt to operate this communicator. Return it to the place of purchase

#### Removing the BELT CLIP.



1. Pull the BELT CLIP LATCH away from the unit.
2. While pulling the BELT CLIP LATCH, push up on the BELT CLIP to remove it from the unit. See Figure 1.

#### Installing the Belt Clip:

1. Slide the BELT CLIP into the BELT CLIP SLOT. See Figure 2.
2. A "click" indicates the BELT CLIP is locked into position.

#### Battery Installation:

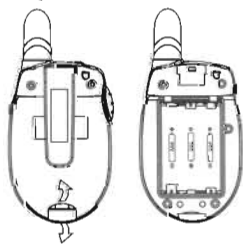


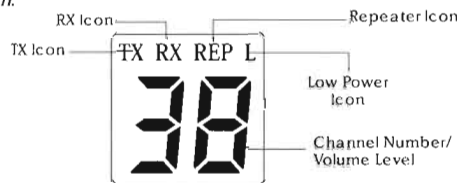
Figure 3.

Figure 4.

1. Release the BATTERY COMPARTMENT COVER LATCH located on the rear side of the unit (see Figure 3) and remove the BATTERY COMPARTMENT COVER from the BATTERY COMPARTMENT (See Figure 4).
2. Install 3x1.5V AAA alkaline batteries or Ni-MH rechargeable batteries (not included) as shown.
3. Reinstall the BATTERY COMPARTMENT COVER and lock the BATTERY COMPARTMENT COVER LATCH into position.

When the COMMUNICATOR is not being used, conserve battery power by pressing the button to OFF. Remove the batteries if the unit will not be used for a long period of time.

#### LCD Screen:



<b>TX</b>	Light on in transmission mode
<b>RX</b>	Light on in Receiving mode
<b>38</b>	Volume Level/Channel Number changes from 1 to 40 as selected by user (channel 22 & 23 being inhibited)
<b>L</b>	Light on when low power is selected
<b>REP</b>	Light on when repeater function is switched on

#### Turning the Unit ON:

Press and hold the button. The unit will "beep" with dual tone and the LCD SCREEN will briefly display a SELF-TEST Screen.

#### Turning the Unit OFF:

Press and hold the button. The unit will "beep" with a signal tone and the LCD Screen will turn blank.

#### Adjusting Speaker Volume:

1. Press the Up button to increase the Speaker Volume.
2. Press the Down button to decrease the Speaker Volume.
3. The Speaker Volume level is indicated by the number 1 to 8 displayed on the LCD Screen.

#### Receiving a Signal:

The unit is continuously in the RECEIVE mode when the unit is ON and not transmitting. When you receive a signal on the current channel, the RX icon is displayed. (See "LCD SCREEN" for details) and red LED indicator lights up.

#### Transmitting a Signal:

1. Check the channel activity by using MONITOR function (See below "MONITOR" section). You'll hear static if the channel is unoccupied. Don't TRANSMIT if someone is talking on the channel. Press and hold the button to TRANSMIT. The TX LED Indicator will light up in red. Hold the unit in a vertical position with the MICROPHONE 2 to 3 inches from the mouth.
2. While holding the button, speak into the unit using a normal tone of voice.
3. Release the button when you have finished transmitting.

NOTE: In order for other people to receive your transmission, they must also be on the same channel you are currently using. Refer to the "Changing Channels" section for more information.

### Operation

#### Changing Channels:

The COMMUNICATOR has 38 available channels. To change channels:

1. Press the button until the current channel number flashes on the LCD Screen.
2. While the channel number is flashing:
  - Press the Up button to move to a higher channel.
  - Press the Down button to move to a lower channel.
  - The channel changes from 1 to 40, or from 40 to 1. (channel 22 & 23 being inhibited).
3. Press the button to confirm the selected channel and return to the NORMAL mode.

NOTE: Refer to the "Channel Table" section of this Owner's Manual for detailed frequency listings.

#### High/Low power selection:

1. Press twice to enter High/Low power page.
2. Press / button to select the power level. The LCD panel indicate "L" when low power is selected. Low power can extend the life of battery life but would reduce the talking range.

#### Monitor:

You can use the MONITOR feature to check for weak signals in the current channel.

1. Press the button 3 times to activate this function.
2. Press again the button to deactivate the function.

### Using the Torch:

Press and hold the Torch button to shine the torch. The torch works even when the unit is switched off.

### Automatic Power Save Feature:

After 6 seconds for the last operation, the PMR enters to the power saving mode automatically. The life of the batteries would be extended. The PMR is still able to receive transmission in this mode.

### Low Battery Alert:

When the batteries in the unit are low, an alert tone will be heard and red LED will light up once every 15 seconds. Replace new batteries immediately.

### Channel Scan:

CHANNEL SCAN performs searches for active signals in an endless loop from 1 to 40 (channel 22 & 23 being inhibited).

1. Press and hold SCAN **S** button for 1 second to turn on scan function. The channel number on the LCD Screen changes rapidly until an active signal is detected.  
During CHANNEL SCAN mode.
  - Press and hold PTT button you can talk to others who use same channel.
  - Press the **C** button to change to CALL function and to send a CALL TONE on that active channel.
  - Press and hold SCAN **S** button again for 1 second to deactivate CHANNEL SCAN mode.
2. When an active signal (one of 38 channels) is detected. CHANNEL SCAN pauses, keeping the active signal broadcasted.
3. Press the PTT button to communicate through the active signal channel and CHANNEL SCAN is deactivated.
4. When an active signal (one of 38 channels) is detected, but another channel is desired, press the Up **▲** or Down **▼** button to bypass the current channel and continue to search for another active channel.

### Repeater Function

Press **S** button once to switch on/off Repeater function. When Repeater function is On, channel 1 - 8 will be switched to channel 31 - 38 and LCD panel will show REP icon.

### Sending Call Tones

You can use CALL TONES to alert the other when you are attempting to contact them. You can also use CALL TONES to signal the beginning or the end of a transmission.

1. Press the **C** button twice shortly, the red TX LED indicator will light up and the CALL TONE continues for 3 seconds.
2. Release the **C** button, your CALL TONES will transmit to nearby receivers set to the same channel.

## Troubleshooting

SYMPTOM	SOLUTION
No power.	<ul style="list-style-type: none"> <li>• Check batteries. Ensure that the batteries are installed properly.</li> <li>• The batteries may be weak.</li> <li>• Replace old batteries with three (3) new "AAA" alkaline batteries or Ni-MH rechargeable batteries.</li> </ul>
Reception is weak.	<ul style="list-style-type: none"> <li>• Press the Up <b>▲</b> button to increase VOLUME.</li> <li>• The receiving signal may be weak and/or out of range.</li> <li>• If this happens, use the MONITOR function.</li> </ul>
Cannot change channels.	<ul style="list-style-type: none"> <li>• To change channels, press the <b>□/○</b> button until the channel number flashes on the LCD Screen.</li> <li>• Press the Up <b>▲</b> or Down <b>▼</b> buttons to change channels.</li> <li>• Batteries may be weak.</li> </ul>
Range is limited.	<ul style="list-style-type: none"> <li>• BATTERIES may be weak.</li> <li>• Replace with new batteries if there is low battery alert tone.</li> <li>• The maximum range will vary depending on terrain and environment.</li> <li>• Open fields provide the maximum range, while steel/concrete structures, heavy foliage and use in buildings and in vehicles may limit the range significantly.</li> <li>• Wearing the radio close to the body, such as in a pocket or on a belt, will decrease range; change the location of the radio.</li> </ul>
Sound distortion problems.	<ul style="list-style-type: none"> <li>• If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the MICROPHONE.</li> <li>• If you are receiving, lower the volume to a comfortable level.</li> <li>• Radios too close. Radios must be at least 5 feet apart; increase your distance.</li> <li>• Radios too far apart. Obstacles interfere with transmission. Talk range is up to 3 Km in clear unobstructed conditions.</li> </ul>

## Specifications:

Channels Available	38 Channels
Output Power (TX)	0.5W
Battery Life	30 Hours (typical)
Range	About 3 Km

CHANNEL TABLE		CHANNEL TABLE	
CHANNEL NUMBER	FREQUENCY (MHz)	CHANNEL NUMBER	FREQUENCY (MHz)
* 1	476.425	21	476.925
* 2	476.450	22+	inhibited
* 3	476.475	23+	inhibited
* 4	476.500	24	477.000
* 5	# 476.525	25	477.025
* 6	476.550	26	477.050
* 7	476.575	27	477.075
* 8	476.600	28	477.100
9	476.625	29	477.125
10	476.650	30	477.150
11	476.675	31*	477.175
12	476.700	32*	477.200
13	476.725	33*	477.225
14	476.750	34*	477.250
15	476.775	35*	477.275
16	476.800	36*	477.300
17	476.825	37*	477.325
18	476.850	38*	477.350
19	476.875	39	477.375
20	476.900	40	477.400

# Emergency calling for both simplex and duplex operation. Please do not use this channel in non-emergency cases.

\* These channels may also be used as repeater channels using 750kHz offset. Channels 1 to 8 inclusive are used for mobile reception and channels 31 to 38 for mobile transmission.

+ According to clause 6.1.2 of AS/NZS 4365: 2002, the transmission of speech telephony signals on channel 22 or 23 shall be inhibited.

NOTE: The maximum transmission range will vary depending on terrain and environment.