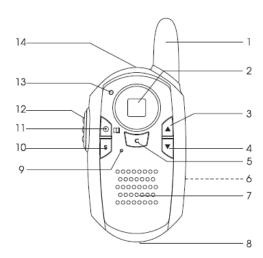
COMMUNICATOR MODEL 328US OWNER'S MANUAL AND OPERATING INSTRUCTIONS



Communicator Controls

- Antenna
- LCD Screen: Displays current channel selection and other radio status symbols.
- Up button (Volume/Channel): Press to adjust volume level and change 3. channels.
- Down 🔻 button (Volume/Channel): Press to adjust volume level and change channels.
- Call button: Press to transmit Call Tones. 5.
- Battery Compartment(Located on the rear): Houses 3X"AAA" alkaline or Ni-MH rechargeable batteries(not included).
- Speaker.
- Battery Compartment Cover Latch(Located on the rear): Secures Battery Compartment cover.
- Mic: Microphone.
- 10. Scan S button: Press and hold 1 sec. for channel scanning.

 11. Menu/Power (on/off) 11/0 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 signal.
- 12. PUSH TO TALK (PTT) button: Press to transmit.
- 13. TX (Transmission) LED indicator: Illuminates red when transmitting. Lights up RED once every 15 seconds to show battery low. Lights up GREEN once electricity get connected.
- 14. Belt Clip (Located on the rear) is just convenient for carrying, not using in transmission.

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:



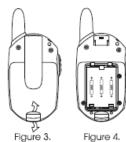
- Pull the BELT CLIP LATCH away from the unit.
- While pulling the BELT CLIP LATCH, push up on the BELT CLIP to remove it from the unit, see Figure 1.

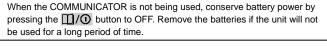
Installing the BELT CLIP:

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

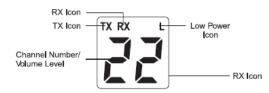
Battery Installation:

- 1. Release the Battery door located on the rear side of the unit(see Figure 1) and remove it (See Figure 2).
- 2. Install 3X1.5V AAA alkaline batteries or Ni-MH rechargeable batteries (not included) as shown.
- 3. Reinstall the Battery door into position.





LCD Screen:



TX	Light on in Transmission mode
RX	Light on in Receiving mode
22	Selected channel number (1-22)/ volume level (1-8)
L	Light on when low power is selected

Turning the Unit ON:

Press and hold the 11/0 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 11/0 button. The unit will "beep" with a signal tone and the LCD Screen will turn blank.

Adjusting Speaker Volume:

- Press the Up button to increase the Speaker Volume.
 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 PTT 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 $\begin{tabular}{l} \dot{\mathbf{PTT}} \\ \hline \end{tabular}$ button, speak into the unit using a normal tone of
- 3.Release the PTT 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 22 available channels. To change channels:

- 1. Press the 1/0 button until the current channel number flashes on the LCD Screen.
- 2. While the channel number is flashing:
 - Press the Up **\(\Lambda \)** button to move to a higher channel.
 - Press the Down v button to move to a lower channel.
 - The channel changes from 1 to 22, or from 22 to 1.
- 3. Press the PTT 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 11/0 twice to enters to 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 11/0 button 3 times to activate this function.
- 2. Press the 11/0 button again to deactivate the function.

Automatic Power Save Feature:

After 6 seconds for the last operation, the FRS 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, and 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 22

- 1. During CHANNEL SCAN mode.
 - Press and hold the S button you can talk to others who use same channel.
 - Press the PTT 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.

- When an active signal (one of 22 channels) is detected. CHANNEL SCAN pauses, keeping the active signal broadcasted.
- Press the PTT button to communicate through the active signal channel and CHANNEL SCAN is deactivated.
- 4. When an active signal (one of 22 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.

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.
- Release the C button, your CALL TONES will transmit to nearby receivers set to the same channel.

Troubleshooting

SYMPTOM	SOLUTION
No power.	 Check batteries. Ensure that the batteries are installed properly. The batteries may be weak. Replace old batteries with three (3) new "AAA" alkaline batteries or Ni-MH rechargeable batteries.
Reception is weak.	 Press the Up ▲ button to increase Volume. The receiving signal may be weak and/or out of range. If this happens, use the MONITOR function.
Cannot change channels.	 To change channels, press the
Range is limited.	 Batteries may be weak. Replace with new batteries if there is low battery alert tone The maximum range will vary depending on terrain and environment. Open fields provide the maximum range, while steel/concrete structures, heavy foliage and use in buildings and in vehicles may limit the range significantly. 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.
Sound distortion problems.	 If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the MICROPHONE. If you are receiving, lower the volume to a comfortable level. Radios too close. Radios must be at least 5 feet apart; increase your distance. Radios too far apart. Obstacles interfere with transmission Talk range is up to 5 Km in clear unobstructed conditions

Specifications

Channels Available	22 Channels
Output Power (TX)	0.5W
Battery Life	30 Hours (typical)
Range	About 5 Km

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CHANNEL TABLE			
CHANNEL NUMBER	FREQUENCY(MHZ)		
1	462.5625		
2	462.5875		
3	462.6125		
4	462.6375		
5	462.6625		
6	462.6875		
7	462.7125		
8	467.5625		
9	467.5875		
10	467.6125		
11	467.6375		
12	467.6625		
13	467.6875		
14	467.7125		
15	462.5500		
16	462.5750		
17	462.6000		
18	462.6250		
19	462.6500		
20	462.6750		
21	462.7000		
22	462.7250		

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

Notice: The FRS/GMRS service is only applied to the device. Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment. Any change to the equipment will void FCC grant.

The equipment compliance with FCC radiation exposure limit set forth for uncontrolled environment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation