Safety Information For GMRS UNIT

Your wireless handheld portable transceiver contains a low power transmitter. When the Push-to Talk(PTT) button is pushed it sends out radio frequency (RF) signals. This device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

FEATURES

Congratulations on your selection of a quality **BellSouth** product. With proper care and adherence to the set-up and user instructions in this Owner's Manual, this unit will provide you with years of trouble-free service.

BellSouth is committed to providing quality products that fit your needs. We would like to have any comments or suggestions you might have on this product. You may mail your comments to:

> U.S. Electronics
> 105 Madison Avenue
> New York, NY 10016

The FW13 is the newest generation in personal two-way communications. The FW13 is a lightweight, compact two-way communication device that can be used to communicate with family or friends at parks, shopping malls, sporting events, concerts – any indoor or outdoor activity.
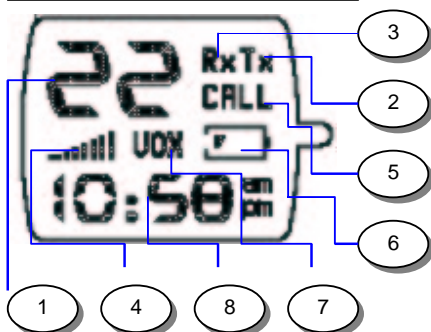
Here are some of the features of this new two-way communicator:

- Wrist Watch Style with Adjustable Band
- 22 GMRS Channels
- Up to 1.5 Mile Range
- Auto Squelch
- Auto Battery Saving
- Internal VOX
- Channel Scan
- 12 Hour AM/PM Time Clock
- Backlit LCD Display
- Lithium Ion Battery Power Source

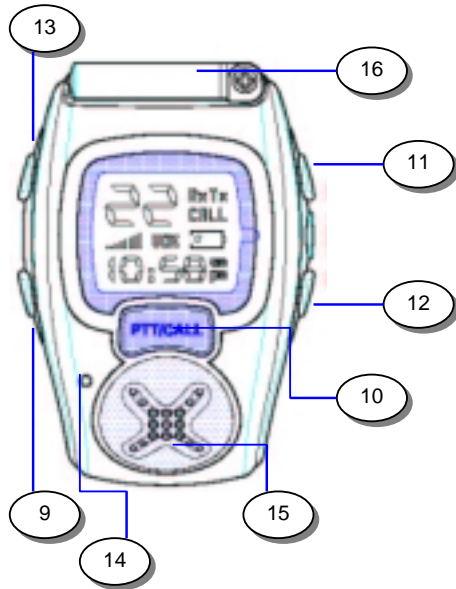Please read this Owner's Manual carefully to get the most out of your TWO-WAY COMMUNICATOR.

NOTE : The maximum range will vary depending on terrain and environment. Range will be greater in open fields. While range is shorter within and around buildings or large structures. This unit may not ensure privacy of communication.

DISPLAYS

1. Channel Number (1~22) — Shows the current channel
2. Transmit Indicator (TX) — Indicates when the unit is transmitting
3. Receive Indicator (RX) — Indicates when the unit is receiving a transmission
4. Volume Selection (8 Bars) — Shows the current volume setting
5. Call Tone Transmission (CALL) — Indicates when the unit is paging
6. Low Battery Level indicator - Indicates when battery level is low or during charging the battery
7. VOX — Indicates when unit is in VOX mode
8. 12 Hour Time Clock (12:00)
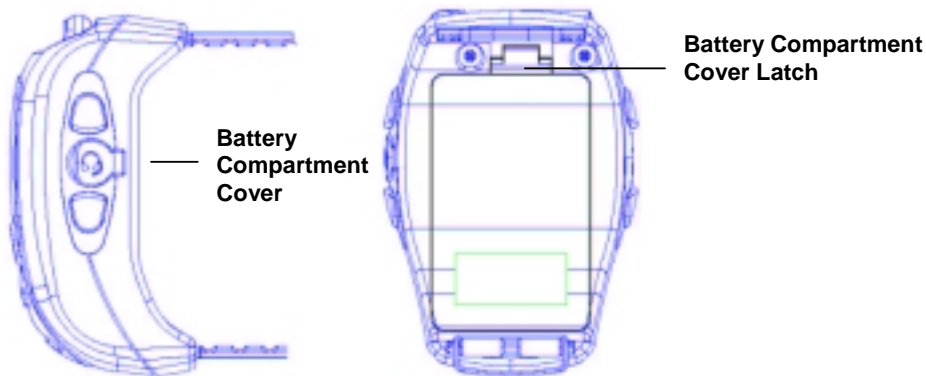
BUTTONS and CONTROLS

9. Power / Menu (Multi Function) – Press and hold to turn ON/OFF the unit. Momentary press will enter the Menu and Clock setting.

10. PTT / Call (Multi Function) – Press and hold to transmit voice communication. Press twice to transmit call tone.

11. Up – Used to adjust volume level (default), change channel and clock adjustment (in Menu)

12. Down – Used to adjust volume level (default), change channel and clock adjustment (in Menu)

13. Scan – Press to enter Channel Scan.

14. MIC – Built-in microphone

15. Speaker – Built-in speaker

16. Antenna

BATTERY INSTALLATION

Your FW13 radio uses Lithium-Ion Battery (included) to power. To install the batteries:

1. Release the Battery Compartment Cover Latch located on the rear side of the unit, and remove the Battery Compartment Cover from the Battery Compartment.
2. Install the Lithium-Ion Battery into the Battery Compartment. Be certain to follow the correct battery orientation in the compartment. Installing the batteries incorrectly will prevent the unit from operating.
3. Replace the Battery Compartment Cover and lock the Battery Compartment Cover Latch into position.

Battery Compartment Cover Latch

Battery Compartment Cover

CAUTION : To reduce the risk of fire or personal injury, use only the battery listed in the instruction book. The FW13 has a built in Power Saver feature for maximum battery life. But when the FW13 is not being used, conserve battery power by pressing the Power Button to OFF. **Remove the battery if the unit will not be used for a long period of time.**
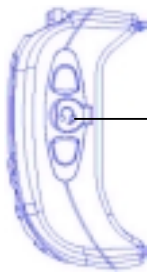
BATTERY LEVEL AND LOW BATTERY OPERATION

This unit has a Low Battery Level icon, which will start to blink once it detects a low battery level. In normal operation, the Low Battery Level icon will not appear on the display. If the unit is not switched off (Watch Mode) during low battery level state then the unit will automatically switch to Watch Mode after five (5) minutes. The battery should be immediately recharged at this time. However, the unit will switch to Stop Mode (unit is OFF) after 1 hour if the battery is still not recharged. Should the unit go into Stop Mode, the unit will not operate until the battery has been recharged.

CHARGING THE BATTERY

Your FW13 radio comes with an A/C Adapter Charger to charge your Lithium-Ion batteries. To charge the batteries:

1. Lift the Headset / Charger Jack Cover located in the side of your unit.
2. Connect the A/C Adapter Charger into an A/C Wall outlet
2. Insert the A/C Adapter Charger into the Headset / Charger Jack. During charging, the Low Battery Level icon will appear on the display, and will disappear once the battery is fully charged.

**Headset/Charger
Jack Cover**

NOTE : The FW13 have internal battery protection, however during long term storage it is strongly recommended that you recharge the battery every 6 months or remove the battery if the unit will not be used for a long period of time.
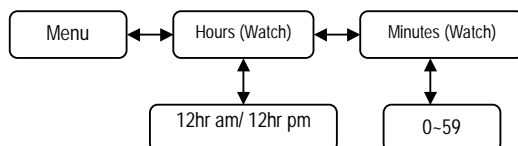

USING THE RADIO

1. Installing the battery will automatically turn-on the unit and proceed to Watch Mode.
2. Enter to Radio Mode by pressing and holding the **Power** button for around 3 seconds. To exit Radio Mode, press the **Power** button for around 3 seconds.
2. Check the battery condition on the display.
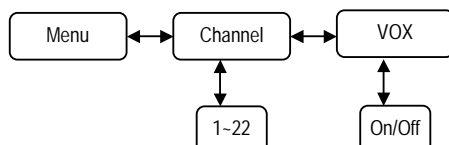3. Adjust the volume to a comfortable level by pressing the **UP** or **DOWN** button (default).

Navigating through the Menu

To access the advance feature of the FW-13, your radio has a Menu two (2) function:

Watch Mode (Default)

Radio Mode

WATCH Mode
1. Your radio will automatically go to Watch Mode once the batteries are installed, only the watch segments and icons will be displayed on the LCD during this mode. Press the **Menu** key for no longer than 2 seconds to enter the Menu Mode.
2. Additional presses of the **Menu** key for no longer than 1 second will advance you through the menu until exiting to "normal" operating mode
3. Pressing the **Menu** button for more than 2 seconds will exit Menu mode.
4. Menu mode exits to standby mode when the **Menu** button is pressed while the final menu selection is active.
5. Menu mode will automatically time out to standby mode 10 seconds after the last user programming is pressed.

RADIO MODE
1. To enter or exit to Radio Mode, press the **Power** key for no longer than 3 seconds. A keybeep is locally generated when the unit goes into Radio Mode and the LCD will display the segments and icons for the Radio.
2. To enter the Menu Mode, press the **Menu** key for around 2 seconds. A keybeep will be locally generated when the Menu Mode is engaged.
2. Additional presses of the **Menu** key for no longer than 1 second will advance you through the menu until exiting to "normal" operating mode.
3. Pressing the **Menu** button for more than 2 seconds will exit Menu mode.
4. Menu mode exits to standby mode when the **Menu** button is pressed while the final menu selection is active.
5. Menu mode will automatically time out to standby mode 10 seconds after the last user programming is pressed.
6. Menu mode is cancelled by pressing **PTT** to enter TRANSMIT mode.

To set the Time

Your FW-13 radio has a 12 hour (AM/PM) Time Clock which can be set as follows:

1. In Watch mode, enter to **Menu** mode by pressing the **Menu** key for about 2 seconds. When the Menu mode is engaged, the **Hour** segment in the LCD Display will flash.
2. Press the **Up** or **Down** key to increase or decrease the **Hour** number displayed. The Time Setting will cycle within 12hour am and 12hour pm.
3. Advance thru the Menu by pressing the **Menu** key for about 1 second until the **Minutes** segment is flashing.
4. Press the **Up** or **Down** key to increase or decrease the **Minutes** number displayed.
5. Exit the **Menu** mode to return to "normal" mode.

Choosing a Channel

Your FW-13 radio has 22 channels you can use to talk to others. To choose a channel:

1. Enter to Radio mode by pressing the **Power** key for about 3 seconds. Press the **Menu** key for at least 2 seconds, the Channel segment on the LCD Display will flash.
2. Press the **Up** or **Down** key to increase or decrease the Channel number displayed. Engage auto-repeat by pressing and holding either the **UP** or **Down** key for 500ms. A standard keybeep tone will be locally generated with each increment/decrement.
3. Exit the Menu to return to "normal" mode.

Channel Scan

To scan the whole 22 channels of the radio for any activity

1. Press the **Scan** button found on the side of the unit. Once engaged, the unit will start to rapidly scan the whole 22 channels of the radio for any activity. The unit will pause on an active channel and will remain on the channel as long as it is active
2. To exit the Scan mode, press the **Scan** button

To Transmit and Receive

To talk to others using the Radio:

1. Press and hold the **PTT** button and speak in a clear normal voice about 2~3 inches away from the microphone. While you are transmitting, the **TX** icon will appear on the display. To avoid cutting off the first part of your transmission, pause slightly after pressing the **PTT** button before starting to speak.
2. When you are finished speaking, release the **PTT** button. You can now receive incoming transmission. While you are receiving, the **RX** icon will appear on the display.

To send a Call paging Tone

To send a Call paging Tone, press the **PTT** button twice. The Call Tone will be automatically transmitted for a fixed length of time. During transmission, the **Call** icon will appear on the display and a Call Paging Tone is also locally generated for confirmation of operation. The radio will return to standby mode following completion of the Call Tone sequence.

Voice Operated Transmission (VOX)

Your FW-13 radio is equipped with a user selectable **Voice Operated Transmitter (VOX)** that can be used for automatic voice transmission. Transmission is initiated by speaking into the microphone without the need to push the **PTT** button.

To set the VOX feature:

1. Enter to **Menu** mode. Advance through the Menu until the **VOX** icon appears on the display.
2. Press the **Up** or **Down** button to toggle between On and Off function of the VOX. When VOX feature is on, the VOX icon will appear on the LCD display.
3. Exit the Menu.

Auto Squelch

Your FW-13 radio is equipped with an automatic squelch system which automatically shuts off weak transmissions and unwanted noise due to terrain conditions and range limitations.

Automatic Power Save

Your FW-13 radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission within 5 seconds, your radio switches to the power save mode. The radio still receives transmission in this mode.

Display Backlight

The display automatically lights up with any key press. The LCD display illuminates for 5 seconds before turning off.
While watch mode, backlight does not operate

SPECIFICATIONS

Channels	22 Channels
Operating Frequency	UHF 462.5500 ~ 467.7125 MHz
Power Source	Lithium-Ion Battery
Output Power	0.11 ERP maximum
Battery Life	**TBD**

Frequency Chart

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

IMPORTANT BATTERY INFORMATION

- Only use batteries which are indicated in the manual. Using another type of battery can substantially reduce play time
- **If you are not going to use your radio for a month or more, be sure to remove batteries because they can leak and damage the unit.**
- Dispose of batteries in the proper manner, according to federal, state, and local regulations.

- Any battery may leak electrolyte if mixed with a different battery type, if inserted incorrectly, if all batteries are not replaced at the same time, if disposed in fire, or if an attempt is made to charge a battery not intended to be charged.
- Discard leaky batteries immediately. Leaking batteries can cause skin burns or other personal injury.

FCC INFORMATION

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:
- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation

Important: Changes or modifications to this unit not expressly approved by Bellsouth could void your authority to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustment to your radio must be made by qualified technicians.

To be safe and sure:
- Never open your radio's case.
- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by moving your radio away from the receiver. If you cannot eliminate the interference, the FCC requires that you stop using the radio.

Hazardous Environments: Do not operate the radio in hazardous environments. Explosion or fire may result. Do not operate the radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Turn your radio OFF to prevent accidental transmission when in a blasting area or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

Care and Safety: To clean the radio, use a soft cloth dampened with water. Do not use cleaners or solvents because they can harm the body of the unit and leak inside, causing permanent damage. Use a dry, lint-free cloth to clean the battery contacts. Do not submerge the unit in water. If the unit gets wet, turn it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the battery compartment cover off overnight to ensure complete drying. Do not use the radio until the unit is completely dry.

SYMPTOMS	SOLUTION
No power	- Check the batteries. Ensure that the batteries are installed properly. - The batteries may be weak. - Recharge your batteries by using the A/C Adapter Charger. - Your batteries may be damaged. Replace old batteries with new Lithium-Ion batteries.
Reception is weak	- Press the UP button to increase VOLUME. - The receiving signal may be weak and/or out of range.
Cannot change channels	- To change channels, press the MENU button until the channel number flashes on the LCD Screen. - Press the UP or DOWN button to change channels. - Batteries may be weak.
Range is limited	- Batteries may be weak - Recharge batteries if the BATTERY LEVEL indicator is low. - 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.

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 10 feet apart; increase your distance. • Radios too far apart. Obstacles interfere with transmission. Talk range is up to 2 miles in clear unobstructed conditions.

WARRANTY

BellSouth Products
One-year Limited Warranty

This limited warranty sets forth all **BellSouth Products** responsibilities regarding to your FW13. There are no other expressed or implied warranties from **BellSouth Products**.

Warranty Service Provided

If you purchased the FW13 unit new from a retail vendor, **BellSouth Products** warrants the equipment against defects in material and workmanship for a period of one (1) year from the original date of purchase. This warranty is in lieu of all other express warranties. This warranty begins when you purchase the FW13 unit and continues for one (1) year unless you sell or rent the unit, in which case the warranty stops.

BellSouth Products disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose, as of the date of one year from your original purchase of the FW13 unit. **BellSouth Products** assumes no responsibility for any special, incidental, or consequential damages.

This warranty gives you specific legal rights and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of special, incidental or consequential damages or limitation on how long a warranty lasts, so the above exclusion or limitation may not apply to you.

Warranty Service Not Provided

This warranty does not cover damages resulting from accident, misuse, abuse, improper installation or operation, lack of reasonable care, unauthorized modification, or the affixing of any attachment not provided by **BellSouth Products** with the FW13 unit, and/or loss of parts. This warranty is voided in the event any unauthorized person opens, alters, or repairs the unit.

All **BellSouth** equipment being returned for repair must be suitably packaged.

BellSouth Products does not warrant that this equipment is compatible with the type of accessory of any particular communicator company or the service provided by it.

What To Do For Warranty Service

During the first thirty (30) days, a defective product is eligible for over-the-counter exchange at the retailer from whom it was purchased. After thirty (30) days, the defective product should be returned to the authorized service center. the shipping address of the authorized service center is:

> U.S. Electronics CONSUMER CENTER
> C/O Southern Bonded Warehouse
> 7137 Southlake Parkway
> Morrow, GA 30260

Website – www.uselecronics.info

Your unit will be repaired or replaced if examination by the service center determines the unit is defective.

A FW13 unit received damaged as a result of shipping will require you to file a claim with the carrier to cover repair costs.

A FW13 unit received with missing parts or with damage due to abuse, inadequate packing, or some other noncompliance with this limited warranty will be returned to you C.O.D., freight collect.

NOTE : A FW13 received which was not made for **BellSouth Products** or which is not defective as determined by our test procedures will not be repaired and will be returned to you C.O.D., freight collect.

To Obtain Warranty Service

- Provide proof of the date of purchase within the package.
- Prepay all shipping costs to the authorized service center.
- Include a return shipping address within the package.

Please retain your sales receipt, the carton, the packaging materials, and the printed materials. the original carton is the best shipping container for the FW13 unit should you have to return it.

For your reference:

Model Number _____

Date of Purchase _____

Name of Dealer _____

> Customer Service Telephone Number
> 1-800-864-2199

FCC Licensing Information

Channels 1 thru 14 transmit on FRS frequencies
Channels 15 thru 22 transmit on GMRS frequencies
Operation on GMRS frequencies requires a license from the federal Communications Commission (FCC)

Information regarding an application for your license can be obtained as follows if you intend to use the GMRS channels:

Website – http://wireless.fcc.gov/prs/genmbl.html

Tel.: 1-800-418-3676

GMRS Licensing Information

Before any station transmits on any channel authorized in the GMRS from any point within or over the territorial limits of any area where radio services are regulated by the FCC, the responsible party must obtain a license for a GMRS system. An individual 18 years of age or older, who is not a representative of a foreign government is eligible to apply for a GMRS license. Application for a GMRS system license is made on FCC Form 605 and you can obtain a copy from the FCC's Web site: http://www.fcc.gov/formpage.html or by calling the FCC's Forms Distribution Center 1-800-418-FORM (3676), or from the fax-on-demand by dialing (202) 418-0177. There is a filing fee. For information on fees, see the FCC's Web site: http://www.fcc.gov/csinfo/feeinfo.html

> Visit us on the Web
> www.uselectronics.info