

Limited Warranty

Aastra Telecom

- A. Aastra warrants that the BE-1438SP sold by Aastra within the continental limits of the United States, Hawaii and Alaska, is free from defects in materials and workmanship under normal use and service for 1 year. This warranty is applicable only to the original purchaser of the BE-1438SP, when accompanied by a sales receipt stating the date of purchase and name of the company from which purchased. This warranty is in lieu of and excludes all other warranties, expressed or implied, including any implied warranty of merchantability or fitness, and of any other obligation on the part of Aastra.
- B. If the BE-1438SP shall prove to be defective, then Aastra shall either replace or repair the BE-1438SP at

- C. There is no informal dispute settlement mechanism available.
- D. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you.
- E. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.
- F. This warranty does not extend to any BE-1438SP sold by Aastra which has been subjected to misuse, neglect, accident, improper application, improper installation or to use in violation of the instructions furnished by Aastra. This warranty does not extend to or apply to any BE-1438SP which has been repaired or altered by any persons who have not been



MODEL BE-1438SP  
14 CHANNEL  
38 SUB-CODE  
FAMILY RADIO SERVICE  
TRANSCEIVER  
SUPER VALUE PACK

OWNER'S MANUAL  
Please read this instruction manual  
carefully.

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its discretion. Warranty service for your BE-1438SP is provided by TT Systems LLC. You may return the BE-1438SP to TT Systems LLC at the following address:

**TT Systems LLC**  
**4 Executive Plaza**  
**Yonkers, New York 10701**  
**Tel: 914-968-2100**

1. At no cost to the original purchaser except shipping charges to TT Systems LLC, within 90 days of the date of purchase (please include proof of purchase).
2. From 91 days to 365 days, shipping charges are at the customer's expense. Please include a copy of your sales receipt and a check or money order made out to TT Systems LLC for the amount of \$14.95 to cover shipping and handling.

- expressly approved by Aastra.
- G. Aastra shall not be liable for any special or consequential damages or for loss or expense directly or indirectly arising from use of the products or any inability to use them either separately or in combination with other equipment or product accessories or from any other cause.
- H. Aastra reserves the right to make changes in the design of the BE-1438SP and to make additions or improvements to the BE-1438SP without incurring any obligation to modify any BE-1438SP previously sold.

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FCC Information

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Modifying or tampering with the radio's internal components can cause a malfunction and may cause a violation of the technical regulations of part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules. This may invalidate the radio's warranty and void your FCC authorization to operate it.

### Introduction

Congratulations on your purchase of the BE-1438SP (Super Pack). These compact, lightweight radios and accessories can be used at malls, parks, while at the beach, hiking, biking, or camping. You can talk to as many people as you want, as often as you like, without air time fees or a license.

### Radio Control Locations

#### DESCRIPTION

**Battery compartment** - Houses four “AAA” alkaline or rechargeable type batteries.

**Belt-clip** - For your convenience, a belt-clip is included to secure the radio to a belt or any other similar location.

**C (Call) button** – Sends a tone to other radios tuned to that channel and code.

**Ear/Mic. jack** – This jack is used to connect a 3.5 mm stereo headset/mic.

or unlock the buttons on the radio face.

**MONITOR button** – Permits the radio to continuously monitor weak signals and illuminates the LCD display to show your current status.

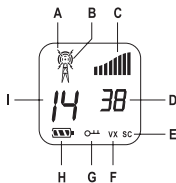
**P (Push to Talk) button** - Used for making a call.

**POWER button** - Push and hold this button to turn the unit on or off.

**SCAN button** - Used to activate and deactivate channel scanning.

**TX LED Indicator** - This indicator lights when the radio is transmitting.

**UP and DN buttons** - Used for changing channels, codes, and setting the receive volume.



contact TT Systems LLC for technical assistance via our Internet Website at [www.ttsystems.com](http://www.ttsystems.com).

5. Please register your product online at:

[www.ttsystems.com/CustomerSupport/RegOnline.asp](http://www.ttsystems.com/CustomerSupport/RegOnline.asp)

### Specifications

Channels Available	14 Channels
CTCSS Sub-Channel	38 for each Channel
Output Power (TX)	.05W (FCC Maximum)
Battery Life	30 Hours (typical)
Range	Up to 2 miles

### Troubleshooting

#### SYMPTOM

#### SOLUTION

Does not turn on

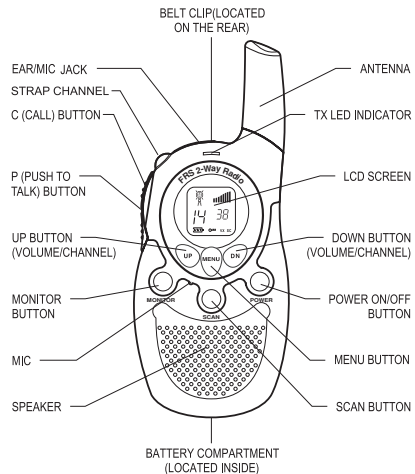
- Check that the batteries are installed properly.
- The batteries may be weak. Replace old batteries with four new “AAA” batteries.

Reception is weak

- Press the **UP** button to increase volume.
- The receiving signal may be weak and out of range. If this happens, press the **MONITOR** button.

Range is limited

- Batteries may be weak. Replace with new 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 buildings and other



**LCD (Liquid Crystal Display)** - A multi-functional display, which shows channel, code and other radio status/icons (see specifics below).

**MENU/Lock button** - Allows you to change channels and sub-codes. Press and hold for five seconds to lock

### Installation

#### BATTERY INSTALLATION

1. Prior to removing the battery cover, make sure the belt-clip is removed (see “Removing The Belt-clip”).
2. Release the battery cover catch located on the rear side of the radio by pushing on the tab.
3. Lift up the battery cover from the battery compartment.
4. Install four “AAA” type alkaline batteries (included) or rechargeable

### FRS Channel Table

CHN	FREQ (MHz)	CHN	FREQ (MHz)
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

#### CTCSS Code— Continuous Tone Coded Squelch System

Code	Frequency(Hz)	Code	Frequency(Hz)
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

structures may limit the range significantly.

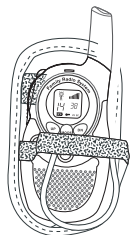
Sound distortion

- If you are transmitting, speak in a normal tone of voice, approximately six inches away from the microphone.
- If you are receiving, lower the volume control to a comfortable level.

### NYLON BELT POUCH

The nylon belt pouches which come with BE-1438SP super pack are designed for more flexible use of your radio. It is recommended that you remove the belt-clip from the radio before inserting it into the belt pouch.

The belt pouch allows you to have the BE-1438SP radios handy without holding them in your hand. The secure design allows for attachment to your belt, or lets you hang the radio from around your neck if you use a chain or strap (not provided) while still being able to access the front panel. In the belt pouch, the radio is more secure and is easier to remove and replace at your leisure.



### in hazardous environments. Explosion or fire may result.

Do not operate this radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Construction crews often use remote control RF devices to set off explosives.

**IMPORTANT:** Turn off your radio to prevent accidental transmission when in a "blasting area" or in areas posted: "Turn off two way radio".

### MAINTENANCE

The BE-1438SP radios have been designed to give years of trouble-free service. To assure longevity, please read the following maintenance instructions.

1. To clean the radio, wipe with a soft cloth dampened with water. Do not use cleaners or solvents on the radio, they can harm the body and

### TRAVEL PACK

To easily carry the FRS radios, accessories, and possibly even a picnic lunch, use the included travel pouch, designed to attach snugly around your waist.

### WATER RESISTANT POUCH

To protect your radio from moisture, place the radio in the water resistant ziplock pouch that was designed specially to fit the BE-1438SP radios. The radios work through the pouches.

### Care and Safety

**Caution:** Do not operate the BE-1438SP radios at high audio volume levels when using it with a headset. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, turn off the radio.

**Warning:** Do not operate this radio

- leak inside, causing permanent damage. Battery contacts should be wiped with a dry, lint free cloth.
2. If the radio gets wet, turn it off and remove batteries, immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the cover off the battery compartment overnight or until completely dry. Do not use the radio until completely dry.
  3. In case of trouble with the BE-1438SP radios, do not attempt to repair them yourself. It is the responsibility of users requiring service to report the need for service to our Service Department. They will make the necessary arrangements for repair or replacement.
  4. If you should have questions about the operation of the BE-1438SP components, please call our Customer Service Department at **1-800-276-5844**. You may also

"AAA" type batteries (not included); make sure to follow the polarities marked inside the battery compartment.

5. Reinstall the battery cover and the belt-clip.

**Note:** Remove the batteries if the unit will not be used for a long period of time.

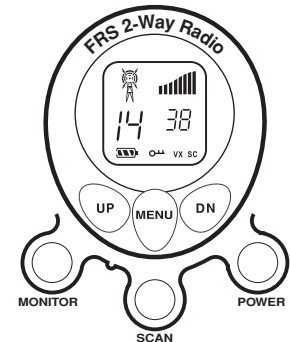
### INSTALLING THE WRIST STRAP

1. Insert small loop of the wrist strap into the small round hole located on the top of the radio between the headset jack and the **C** button.
2. Make sure the loop runs up and out through the top of the belt-clip.
3. Insert the large loop of the wrist strap all the way through the small loop. The strap should now be secure.

### INSTALLING THE BELT-CLIP

1. Insert the belt-clip hooks into the

### Operation



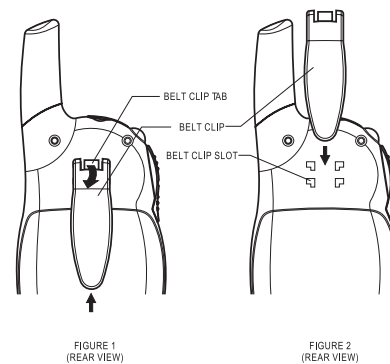
### TURNING THE POWER ON AND OFF

#### Turning the Unit ON

1. Press and hold the **POWER** button. The BE-1438SP radios will emit a short tone and the LCD screen will display **F-5** and then the current channel.

#### Turning the Unit OFF

1. Press and hold the **POWER** button



matching slots as shown above (Figure 1).

2. Slide the belt-clip down. A click indicates the Belt-clip is locked into position (Figure 2).

### REMOVING THE BELT-CLIP

1. Push up on the belt-clip while squeezing the belt-clip tab.

for at least two seconds. The BE-1438SP radios will emit a tone and the LCD display will go blank.

### ADJUSTING THE SPEAKER VOLUME

- Press the **UP** button to increase the volume.
- Press the **DN** button to decrease the volume.

The speaker volume level is indicated by the number of bars displayed in the upper right corner of the LCD.

### RECEIVING A CALL

When your FRS unit is turned on and is not being used to transmit voice communication or pages, the unit is continuously set in receiving mode. When you receive a call on the current channel you are using, the LCD display will show the receive icon.

### TRANSMITTING A CALL

1. Press and hold the **P** button to transmit. The TX LED will light up red and the transmit icon will show in LCD Display.
2. While holding the **P** button, speak in a normal voice approximately six inches away from the microphone.
3. Release the **P** button when you have finished transmitting.

**Note:** In order to have two-way communication, all parties must transmit on the same channel and sub-code. Refer to the "Selecting Channels" and "Selecting the CTCSS Sub-Code" sections for more information.

### SELECTING CHANNELS

The BE-1438SP radios have 14 available channels. To change channels:

1. Press the **MENU** button. The channel number flashes on the

the CTCSS sub-code digits flash (or press the **MENU** button again when you are in Channel Setting Mode).

2. While the CTCSS number is flashing:  
Press the **UP** button for a higher Code.  
Press the **DN** button for a lower Code.
3. Press the **MENU** button or **P** button to confirm your channel and CTCSS code selection and return to normal mode.

**Note:** Refer to "FRS Channel Table" CTCSS Code section of this manual for detailed frequency listings.

### SCANNING CHANNELS

It is possible to scan the channels for one which is being actively used by using the following procedure:

1. Press the **SCAN** button to activate.

LCD display.

2. While the channel number is flashing:  
Press the **UP** button to increase the channel number.  
Press the **DN** button to decrease the channel number.
3. Press the **MENU** button to confirm the desired channel and move to sub-code programming, or press **P** to save and return to normal mode.

**Note:** Refer to the "FRS Channel Table" section of this manual for detailed frequency listings.

### SELECTING THE CTCSS SUB-CODE

The BE-1438SP radios have 38 available CTCSS Sub-codes. Please set a CTCSS Code in addition to a Channel if you do not want to be bothered by other parties. To set the CTCSS Code:

1. Press the **MENU** button twice until

The radio will scan rapidly through the 14 channels until an active channel is found.

2. When an active signal is detected, the radio pauses at that channel to broadcast the signal.
3. Press **P** to communicate through the active channel and leave Scan mode.
3. When an active channel is found but you wish to continue scanning, press **UP** or **DN** to bypass the current channel.
4. To deactivate scanning press the **SCAN** button again.

If the radio scans all channels without finding an active one, it will continue to loop unless some button is pressed to stop it.

### MONITOR

You can use the Monitor feature to listen in for weak signals on the current channel.

For normal monitoring, press the **MONITOR** button.

For continuous monitoring:

1. Press and hold the **MONITOR** button for at least three seconds.
2. To deactivate continuous monitoring press the **MONITOR** button.

### BATTERY LEVEL / LOW BATTERY INDICATION

The LCD display shows the battery power level according to the number of squares inside the battery symbol.

When the battery level is low, the battery icon will flash to indicate that the batteries need to be changed.

### CALLING (PAGING) ANOTHER RADIO

Call tones are used to request other people on the same channel to identify themselves or signal the beginning or end of a conversation. To send a page:

1. Press and release the **C** button on

the left side of the radio. A page tone will sound to every radio on that frequency.

**Note:** In order for the paging feature to work, both radios must be on.

### USING THE VOX FEATURE

The BE-1438SP radios are capable of voice activated (VOX) transmission. When this setting is on, you do not need to press the **P** button to transmit-transmission begins when any sound is heard near the microphone.

1. Press the **MENU** button until "VX" and "oF" are displayed on the LCD.
2. Press **UP** to activate the VOX feature. The "oF" will change to "On."
3. Press **MENU** or **P** to return to normal mode.
4. When in VOX mode, the "VX" icon will display on the LCD screen.
5. To turn off voice activation, follow

the same procedure only press the **DN** button to change the "On" to "oF" (Off).

**Note:** VOX sensitivity is purposely set low so that extraneous noises are not picked up and transmitted. While in VOX mode, be sure to speak clearly and directly into the microphone, whether using a headset or not.

### Super Pack Accessories

#### HEADSET

The BE-1438SP radios can be used with a headset which has been included in the super pack for your convenience. Using a headset eliminates the need to use the built-in speaker and microphone on the radio. The BE-1438SP radios contain a headset jack located at the top of the unit for this purpose.

1. Lift the protective rubber cover

away from the radio.

2. Insert the the headset plug into the jack on the BE-1438SP radios.
3. Take care that the headset plug fits correctly into the jack on the unit.
4. Place the headset on your head and adjust the volume control on the radio as required.



#### AAA ALKALINE BATTERIES

Eight AAA Alkaline batteries are included with this super pack. They will function for approximately 4 hours talk (continuous) time or 3 days standby time in the BE-1438SP radios.

