

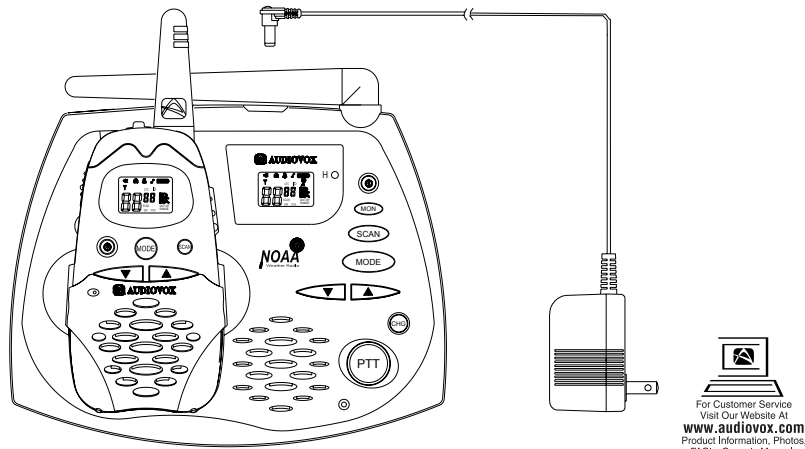


FRS/Weather

## Model: FRS-3000PK

Mobile Rechargeable FRS Transceiver,  
and Desk-Top Fixed Base Station

Transceiver With NOAA Weather Alert  
**Owner's Manual**



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FAQ's, Owner's Manuals



## CAUTIONS

NEVER ATTEMPT TO CHARGE ALKALINE OR DRY CELL BATTERIES, AS BATTERIES MAY BURST CAUSING PERSONAL INJURY AND DAMAGE TO THE PRODUCT. WHEN RECHARGING NICKEL METAL HYDRIDE (Ni-MH) BATTERIES IN THE HAND-HELD UNIT USING THE AUDIOVOX CHARGING BASE STATION, USE ONLY AUDIOVOX APPROVED RECHARGEABLE BATTERIES. USE OF THE AUDIOVOX BASE STATION CHARGER WITH OTHER BRANDS OF BATTERIES IS NOT RECOMMENDED, AS BATTERY CHARGING TIMES WILL VARY WITH DIFFERENT BRANDS. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR CHARGING OTHER BRANDS OF BATTERIES.

AVOID PLACING THE FRS-3000PK RADIO TRANSCEIVER AND BASE STATION FOR PROLONGED PERIODS OF TIME IN DIRECT SUNLIGHT OR IN TEMPERATURES BELOW -4° F (-20° C) OR ABOVE 140° F (60° C).

KEEP EITHER ANTENNA AT 1 INCH (2.5 cm) AWAY FROM YOUR HEAD AND BODY. DO NOT USE YOUR FRS-3000PK RADIO TRANSCEIVER OR BASE STATION WITH A DAMAGED ANTENNA.

PLACE THE RUBBER COVER ON JACKS WHEN NOT IN USE.

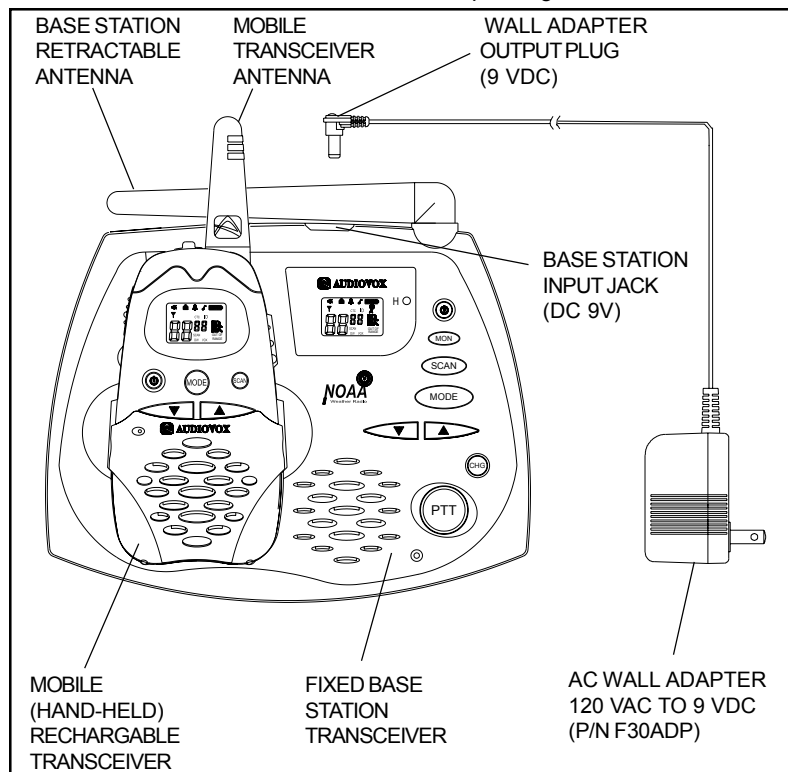
### **Family Radio Service:**

The Family Radio Service (FRS) 2-way base (fixed) station "transceiver" ("transmitter and receiver") and hand-held radio have been designed for family and friends to keep in touch without the need for a license. This fixed/mobile combination provides safety and convenience indoors and outdoors for two-way radio operation between home base and the mobile FRS unit, and operates on Family Radio Service designated frequencies. The FCC has established the license free, short-range two-way radio service for family and individual recreational use.

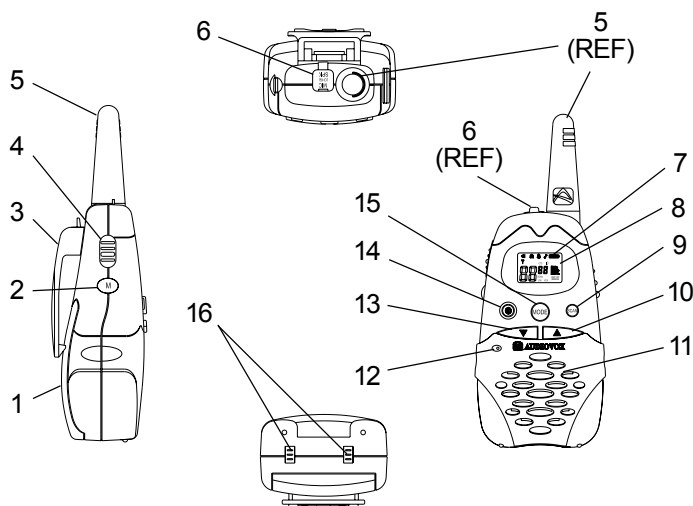
The optimal range for this 2-way radio combination is approximately 2 miles in open areas; less in areas with buildings, dense foliage, and mountains.

## Model FRS-3000PK Mobile and Base Station Transceivers

The mobile (hand-held) transceiver, when equipped with NiMH rechargeable batteries, can be recharged when placed in the fixed base station transceiver cradle, which also acts as a desk-top charger.

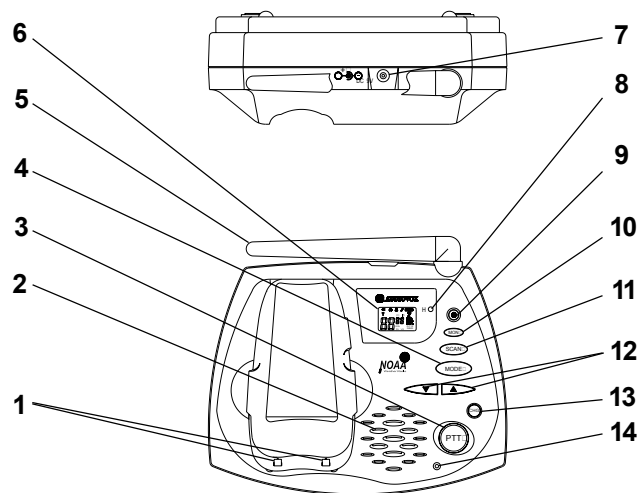


## Model FRS-3000PK Mobile Transceiver Controls and Indicators



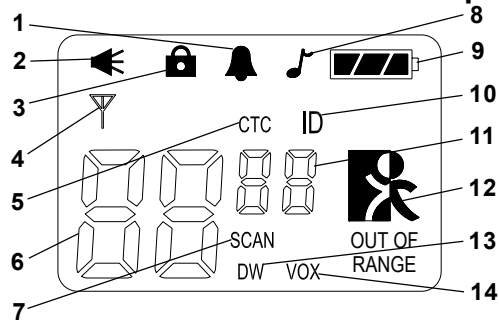
- |   |                                |
|---|--------------------------------|
| 1. Battery Door   | 9. SCAN/Lock Button            |
| 2. Monitor/Backlight Button   | 10. Up Channel/Volume Button   |
| 3. Detachable Carry Clip  | 11. Built-in Speaker           |
| 4. Push-To-Talk (PTT) Button  | 12. Built-in Microphone        |
| 5. Antenna  | 13. Down Channel/Volume Button |
| 6. External Speaker(SPK)/Microphone (MIC) Jacks                               | 14. Power On/Off Control       |
| 7. Liquid Crystal Display (LCD)   | 15. MODE Button                |
| 8. Combination Transmit Indicator (Red)/Receive and Monitor Indicator (Green) | 16. Battery Charging Contacts  |

## Model FRS-3000PK Base Unit Controls and Indicators



- |   |   |
|---|---|
| 1. FRS Mobile Unit Battery Charge Contacts                                    | 9. Power On/Off and Function Set Button |
| 2. Built-in Speaker   | 10. LCD Backlight/Monitor (MON) Button  |
| 3. Push-To-Talk (PTT) Button  | 11. SCAN/Lock Button                    |
| 4. MODE Button  | 12. Up/Down Channel/Volume Buttons      |
| 5. Antenna (Retractable)  | 13. FRS Unit Battery CHG On/Off Switch  |
| 6. Liquid Crystal Display (LCD)   | 14. Built-in Microphone                 |
| 7. DC 9V Charger Input Jack   |   |
| 8. Combination Transmit Indicator (Red)/Receive and Monitor Indicator (Green) |   |

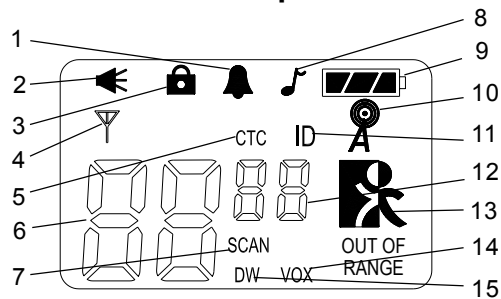
## Model FRS-3000 Mobile Transceiver Display



1. **Button (Key) Tone Beep On/Off Indicator:** This icon appears when the beep key tone is on, and disappears when tone is not in use.
1. **Beep Tone Indicator:** Icon appears when beep button confirmation tone is selected; icon disappears when tone is off.
2. **Monitor Indicator:** Icon appears when the Monitor (**M**) button is pressed and the channel monitor function is activated.
3. **Key Lock Indicator:** Icon appears when the keypad is locked. This function disables keys such as channel up/down and MODE.
4. **Signal Strength Indicator:** Icon appears when a signal is being received. The icon consists of five bars to indicate the received signal level.
5. **Continuous Tone Coded Squelch System (CTCSS) Indicator:** Indicator appears when the CTCSS tone function is active.
6. **Large Segment Display:** Indicates the FRS channel number in use.
7. **Scan Indicator:** This function allows the user to scan a channel every 0.5 second to search for a valid signal.
8. **RogerBeep Tone On/Off Indicator:** This icon appears when the Roger Beep tone is on, and disappears when tone is not in use.
9. **Battery Level Indicator:** Icon indicates the battery charge level.

- 10. Caller Identification (ID) Indicator:** This indication appears when you select a caller identification code (between 1 and 10). ID selection operates in conjunction with the small segment display, and can also be used to identify a calling party in the monitor mode.
- 11. Small Segment Display:** Displays the CTCSS tone option in the channel from (01-38).
- 12. Out of Range Indicator:** Icon will be on steady when received signal strength is normal; icon flashes when signal strength becomes weak and intermittent.
- 13. Dual Watch Mode Indicator:** Indicator appears when dual watch mode is active.
- 14. Voice Activated Transmission (VOX) Indicator:** This function allows hands free conversation. The indicator appears when the VOX mode is activated.

### Model FRS-3000PK Desk Top Base Station Display



- 1. Button (Key) Tone Beep On/Off Indicator:** This icon appears when the beep key tone is on, and disappears when tone is not in use.
- 2. Monitor Indicator:** Icon appears when the Monitor (L/MON) button is pressed and the channel monitor function is activated.

3. **Key Lock Indicator:** Icon appears when keypad is locked. This function disables keys such as channel up/down and MODE.
4. **Signal Strength Indicator:** Icon appears when a signal is being received. The icon consists of three bars to indicate the received signal level. The icon also represents transmit signal power when transmitting.
5. **Continuous Tone Coded Squelch System (CTCSS) Indicator:** Icon appears when the CTCSS tone function is active.
6. **Large Segment Display:** Indicates the FRS channel number in use.
7. **Scan Indicator:** This function allows the user to scan a channel and/or a tone code every .5 second to search for a valid signal.
8. **Dual Watch Mode Indicator:** Icon appears when dual watch mode is active.
9. **Roger Beep Tone Indicator:** Icon appears when the roger beep tone is enabled, signifying transmission has been terminated. Icon disappears when tone is disabled.
10. **Battery Level Indicator:** Icon indicates the battery charge level.
11. **Weather Mode Indicator:** Icon appears steady when weather mode is active; it flashes when weather alert is active in the FRS mode.
13. **Small Segment Display:** Displays the CTCSS tone option for a given channel from (01-38).
14. **Out-of-Range Indicator:** Icon will be on steady when received signal strength is normal; icon flashes when signal strength becomes weak and intermittent..
15. **Voice Activated Transmission (VOX) Indicator:** This function allows hands-free conversation. The icon appears when the VOX mode is activated.

**NOTE:** The Base Station provides a NOAA Weather Alert feature and a battery charge button, whereas the Mobile Hand-Held Transceiver does not provide these features.



### **Powering the transceiver:**

Your FRS-3000PK hand-held mobile radio transceiver operates on four AAA batteries. Alkaline batteries will provide slightly better performance than the supplied rechargeable batteries. Only Audiovox approved rechargeable batteries can be recharged in this transceiver using the Base Station charging feature and the charging Adapter supplied with the unit. This will ensure optimum performance for the mobile unit. Use of the Base Unit charging feature with other brands of batteries is not recommended as battery charging times will vary. Refer to the manufacturer's instructions for charging other brands of batteries.

### **Equipment and Accessories Supplied**

- |    |                        |  |
|----|------------------------|--|
| 1. | Radio Transceivers (2) | FRS-3000PK (Mobile and Fixed Base Station) |
| 2. | Owner's Manual (1)     | 128-6416                                   |
| 3. | Batteries (4)          | Rechargeable NiMH (P/N F30BATT)            |
| 4. | AC Wall Adapter        | RDG-4109500 (P/N F30ADP)                   |

### **Batteries**

There are three methods of powering the FRS-3000PK Mobile Transceiver:

1. Alkaline Batteries.

**WARNING:** Do not attempt to recharge Alkaline batteries.

2. Audiovox Rechargeable Ni-MH Batteries - (Rechargeable NiMH batteries, Desk Top Base Station Transceiver, and Wall Charging Adapter included as part of the FRS-3000PK). Use only Audiovox approved rechargeable batteries and Desk Top Base Station charger when charging batteries internal to the Mobile Transceiver.

3. Various Brands of Rechargeable Batteries - Use of the Base Station Desk-Top charging feature with other brands of rechargeable batteries is not recommended, as battery charging times will vary with different brands of batteries. Refer to the manufacturer's instructions for charging other brands of batteries.

The battery charge indicator icon displays the battery charge level in the mobile transceiver. When the AC adapter is connected to the base station transceiver, it's indicator icon will always indicate a full charge. A full charge of batteries in the mobile unit is indicated by the battery icon as shown below:



Full Battery - three segments are illuminated.

Low Battery - one segment is illuminated.

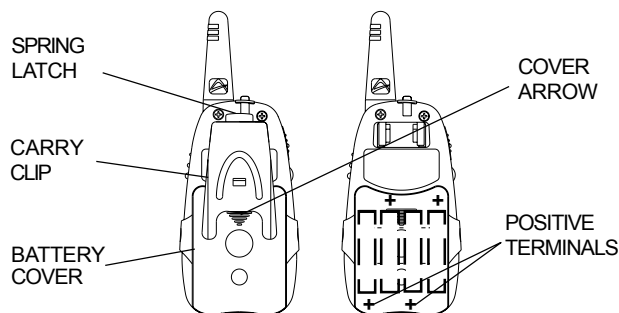
Approximately 10-12 hours are required to fully charge the batteries in the mobile transceiver. The red **H** LED charging indicator (\*8) on the base station transceiver will light whenever the batteries are charging. If the charging indicator flashes on/off when the CHG button is pressed, it is likely no batteries are installed in the mobile unit. You must set the CHG button off when using any batteries other than the ones provided for the mobile transceiver. Failure to do this may cause damage to the batteries resulting in personal injury and/or damage to either, or both, units.

**Caution:** The charging adapter is intended for use with the supplied rechargeable Ni-MH batteries Part Number F30BATT. Do not attempt to recharge any other type batteries.

#### **Installing the Batteries in the Mobile Transceiver**

Battery installation in the Mobile Transceiver is made more convenient when the carry clip is removed. To do this, release the spring latch securing the clip to radio and slide the clip downward and away from the radio body.

Next, press down with the thumb at the embossed arrow on the battery compartment cover, and slide the battery cover down and off the radio. Insert four AAA batteries (alternate positive ends (+) toward the bottom of the transceiver, (starting left-to-right)).



1. Using thumb, press down on battery cover at arrow and slide cover down.
2. Then lift up cover at bottom to open. Then remove cover from unit.
3. Insert four AAA batteries (positive (+) end toward the bottom beginning at left side and alternating positive terminals as shown).

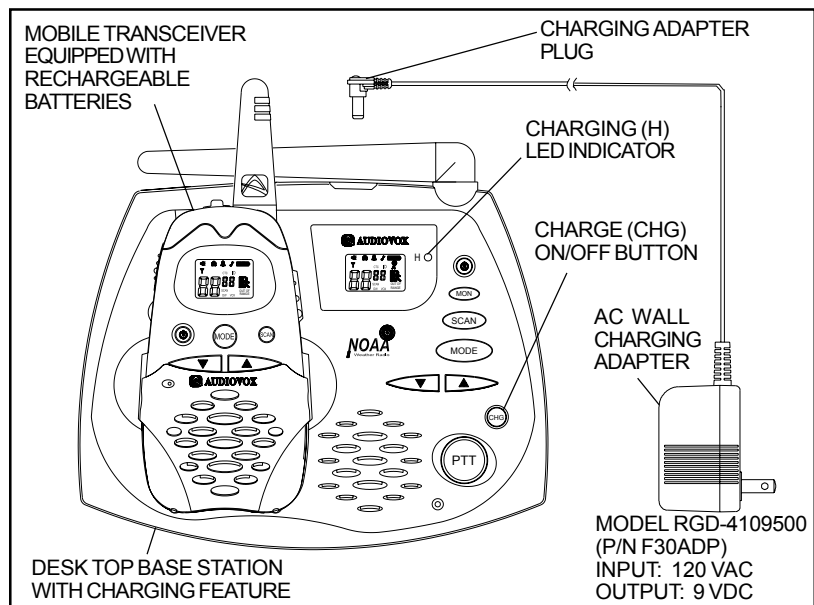
The following guidelines will improve performance and provide longer operating times for the FRS-3000Pk mobile transceiver:

1. Do not mix old and new batteries.
2. The use of alkaline-type batteries is recommended to provide the longest operating time.
3. Do not mix alkaline, standard (carbon-zinc) or rechargeable batteries.
4. If the unit is not to be used for an extended period of time, remove the batteries. Old or leaking batteries can cause damage to the unit and will void the warranty.

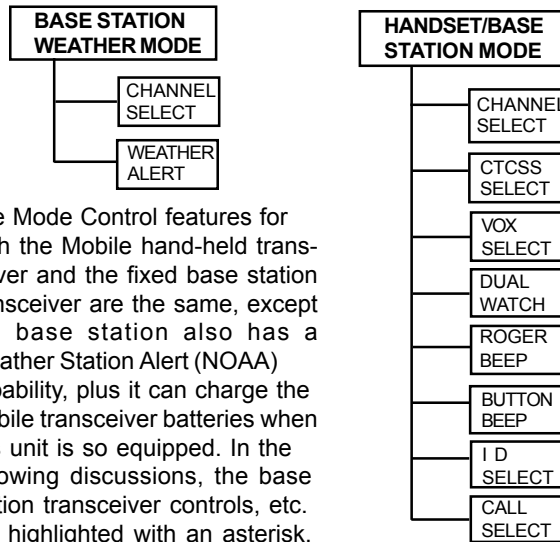
### Base Station Transceiver Charging Setup For the Mobile Transceiver

When the mobile transceiver is equipped with rechargeable NiMH batteries (supplied), they may be charged using the base station setup as follows:

1. Position the hand-held transceiver in the base station cradle as shown.
2. Connect the charging adapter plug to the DC 9V jack at the rear of the base station transceiver.
3. Plug the other end of the charging adapter into a 120 VAC outlet.
4. On the base station, momentarily press the CHG button; the **H** indicator lights **red** indicating the mobile transceiver batteries are being charged.
5. To terminate battery charge, momentarily press the CHG button again; the **H** indicator will extinguish.




## FRS-3000PK OPERATIONAL MODES






**NOTE:** The Mode Control features for both the Mobile hand-held transceiver and the fixed base station transceiver are the same, except the base station also has a Weather Station Alert (NOAA) capability, plus it can charge the Mobile transceiver batteries when this unit is so equipped. In the following discussions, the base station transceiver controls, etc. are highlighted with an asterisk.

### Controls:



#### Power On/Off (14, \*9) Button

Press and hold the power on/off button (  ) for at least 2 seconds. You will hear a confirming melody to indicate the unit is on. To turn the unit off, press and hold the button for at least 2 seconds.

#### Adjusting the Volume

With either transceiver powered on, press the respective Up Channel/Volume button (  ) to increase volume and the Down Channel/Volume button (  ) to decrease volume. The display will indicate the current volume level between 1 and 7 by the small number in the icon (  ).

### **Monitor/Display Backlight Button (2, \*10)**


This button is used to check activity on the current frequency before transmitting. Check activity by pressing the Monitor (M) Button longer than 2 seconds; the  icon will appear on the display and you will hear static if frequency is clear. **Do not transmit if you hear conversation.** Hold down the Monitor Button again longer than 2 seconds and the  icon will disappear from the display.

The monitor function will temporarily bypass the squelch setting and play all signals on a given channel. This feature is useful when communicating with other parties at extreme range.

By pressing the monitor button momentarily, the LCD backlight is turned on accompanied by a beep tone; the LCD backlight will turn off automatically in about 5 seconds, or when the monitor button is pressed momentarily once again.

### **Push To Talk (PTT) Button (4, \*3)**

Pressing and holding this button will allow you to speak to any transceiver that is set to the same channel and privacy code setting as yours. Hold the transceiver approximately 1 to 2 inches from your face as you speak into the built in microphone (12, \*14). After you have finished speaking, release the PTT Button to allow reception of incoming signals. It is not possible to transmit and receive at the same time. The Transmit/Monitor LED at the upper inside right corner of the LCD Panel (7, \*6) will light **red** while the PTT Button is pressed.

Releasing the button allows the unit to revert to standby mode. When receiving an incoming signal, the Transmit/Monitor indicator will light **green**, and the received signal strength indicator (  ) will display the relative strength of the signal.

The PTT Button can also be used as a two-way call ringer. Pressing the button twice quickly will call another party on the same channel. The call ring melody will sound on the receiving unit for approximately 3 seconds.

**Up Channel/Volume Button (10, \*12)**

In the standby mode, pressing this button will increment the listening volume. When in function edit mode this button will be used to adjust the unit's settings.

**Down Channel/Volume Button (13, \*12)**

In the standby mode, pressing this button will decrement the listening volume. When in function edit mode this button will be used to adjust the unit's settings.


**Mode Button (15, \*4)**

This button is used to select the various FRS feature settings such as channel/CTCSS code selection, VOX mode, etc.


**External Speaker (SPK)/Microphone (MIC) Jack (6)**

This jack accepts an Audiovox headset/microphone connector (optional accessory). For additional optional equipment and accessories for the FRS-3000PK, visit the Audiovox web site at [www.audiovox.com](http://www.audiovox.com).

**Scan/Lock Button (9, \*11)**

Press this Button momentarily to enable or disable the scan mode. Press and hold the button for more than 1 second to lock or unlock the key pad. All buttons will be active in the lock mode except, MODE and SCAN. When the keypad is locked, the (  ) icon will display in the top left corner.

**Operating Modes and Features****FRS Operation:**

- From the FRS standby mode, press and hold the (  ) button for 2 seconds to turn on power.
- Press the MODE button so the Channel number flashes.
- Select the desired channel with the Up (10, \*12) and Down (13, \*12) Buttons. When receiving a call, the monitor section of the Transmit/Monitor LED lights **green**, and the signal strength meter, consisting of a 5-bar graph, is displayed and indicates incoming received signal strength from minimum (a single bar) to maximum (five bars).

- Press and hold the PTT button (4, \*3) to transmit, then speak into the microphone clearly and slowly. The Transmit/Monitor LED lights **red**.
- Release the PTT Button (4, \*3) to receive.
- Communication can only be accomplished when the channel and CTCSS tone frequency of at least two parties are the same.
- The **CTC** icon will be displayed on the LCD panel if the CTCSS tone frequency function is enabled.

### **Channel Selection**

In order to communicate with other FRS units, both transmitting and receiving party must be on the same frequency.

The FRS-3000PK has 14 FRS channels (frequencies) (1-14) indicated by the large digits on the LCD display panel. Channels 1-7 are shared GMRS/FRS channels; channels 8-14 are FRS only. Communication with Audiovox FRS and compatible units is possible on these 14 channels. Before transmitting on the selected channel, press the Monitor (M) Button (2, \*10) to check the activity on that channel. If there is activity on the selected channel, change to another channel that is clear.

To change the channel:

- From FRS standby mode, press the MODE button (15, \*4) until the channel number flashes.
- Press the Up Button (10, \*12) briefly to move to the next higher main channel number.
- Press the Down Button (13, \*12) briefly to move to the next lower main channel number.

### **CTCSS Mode (Sub-Channel) Selection**

The Coded Tone Controlled Squelch System (CTCSS) provides 38 Sub-Frequencies. This feature allows you to utilize the coded squelch tones (01–38) within a main channel and enables you to communicate with another party on the same main channel using the same subcode. (This filters out unwanted transmissions without the same coded squelch tone). There



are 38 CTCSS Sub-channels for each main channel. A different subcode may be selected for each of the 14 channels.

To change the CTCSS Sub-channel:

- From FRS standby mode, press the MODE Button twice; a flashing **oF** or sub-channel number is displayed, together with the flashing **CTC** icon. If **oF** is displayed, press the Up or Down button to enable the CTCSS mode; the **CTC** icon will also flash on the display with the flashing sub-channel number.
- Then press the Up or Down button to select the desired sub-channel for use.
- Press the PTT button momentarily to confirm selection.

The CTCSS mode can be turned off by selecting the **oF** icon as the setting.

**NOTE:** To communicate with other FRS units, they must be switched to the same channel and CTCSS subcode. To communicate with other FRS units that do not have subcodes, switch your unit to the same channel with the subcode set to **oF**.

The CTCSS subcodes do not prevent others from hearing your transmission. This will only allow you to ignore all traffic on a given channel not using the same subcode.

### **VOX Selection Mode**

This option enables you to have hands-free conversation. Your voice or nearby sound is detected and the radio transmits without the need to press the PTT button.

To set radio for VOX operation:

- From FRS standby mode, press the MODE button three times until **Uo** appears with the **VOX** icon flashing on the display.
- Press the Up or Down button to select VOX On (if **oF** appears flashing) and the **1-5** VOX level sensitivity.
- Momentarily press the PTT button to confirm the VOX selection.
- The **VOX** icon will appear steady on the LCD display.

VOX can be turned off by selecting **oF** as the setting.

### Dual Watch Mode

This feature allows you to monitor two channels at the same time. While in dual watch mode, the unit will continuously monitor both the primary and dual watch channel. Received signals will be played for 5 seconds, then the unit will resume scanning the two channels. Pressing the PTT button during a received transmission will set the unit to transmit on the same channel. Pressing the PTT button when no signal is received will set the unit to transmit on the primary channel.



To set the Dual Watch Mode:

- From FRS standby mode, press the MODE button 4 times; **dc** appears on the display with the flashing **DW** icon. If the dual watch mode is off, the **oF** icon will also appear flashing.
- To enable the dual watch mode, press the Up or Down button; the dual watch channel number will flash and start to increment up or down as the Up or Down button is pressed.
- Press the PTT button to confirm selection of the dual watch channel. The display will now alternate between the primary channel and the dual watch channel just selected.

### Roger Beep Tone

The Roger Beep is a tone which is automatically transmitted whenever the PTT button is released. This tone alerts the receiving party that the transmission has been terminated intentionally.

To enable and disable the Roger Beep tone:

- From FRS standby mode, press the MODE Button 5 times until **rb** appears on the display with the flashing Roger Beep icon (  ) and **On** or **oF**.
- Press the Up or Down Button to select the tone on or off as desired.
- When enabled, the tone icon (  ) appears steady on the display.
- Press the PTT button momentarily to confirm selection.

### Key Tone

This feature allows the transceiver to sound a confirmation tone whenever the following keys are pressed: Monitor (M) Button, Up/Down Buttons, MODE Button or the SCAN Button.

To turn the key tones on or off:

- From FRS standby mode, press the MODE Button six times until **bP**, the Bell (🔔) icon, and **On** or **oF** flash on the LCD display.
- Press the Up or Down Button to toggle the key tone feature On or Off.
- Press the PTT button momentarily to confirm selection.

When the key tone feature is on, the Bell icon appears steady on the display, and the beep tones sound in response to button activation.

### Caller Identification (ID) Select

The caller ID function allows you to assign an ID code between 1 and 10; this code accompanies your transmission whenever you call another party, and will appear at the receiving unit, provided it has caller ID capability.

To select a caller ID code for your unit:

- From FRS standby mode, press the MODE button 7 times; **Id** appears, together with a flashing **ID** and number (or **oF**) indication.
- If **oF** appears, press the Up or Down Button to select the desired caller identification code for your unit between 1 and 10.
- Press the PTT button momentarily to confirm selection.

Now, your caller ID number will accompany each transmission, and will appear on the receiving unit, if so equipped, and vice-versa.

### Call Ringer Selection Mode

The transceiver provides 3 user-selectable call ringer melodies to alert you to an incoming call.

To select your favorite call ringer melody:

- From FRS standby mode, press the MODE button 8 times; **C** will appear on the display, together with a flashing number (or **oF**) between **01** and **03**, and an appropriate call ring.

- Press the Up or Down Button to preview and hear the 3 available call melodies.
- Press the PTT button momentarily to confirm selection.

Refer to the PTT button (4) to transmit ring signal.

### **Channel Scan Operation**

This feature allows you to monitor all channels automatically for valid signals. While scanning, you can transmit and receive. When a signal is received, the scan is interrupted and will return to scan mode 5 seconds after reception is terminated.

**NOTE:** While the scan function is active, the MODE button will be inoperative. The scan mode will reduce the overall battery life since the battery save function is overridden.

To enable the channel scan mode:


- From FRS standby mode, momentarily press the SCAN Button; **(SCAN)** will appear on the LCD display.
- The radio will display each channel (1-14) in order as the scan mode operates to find an active main channel.
- If the unit doesn't find any signals and you want to transmit, press the PTT switch to return to home channel operation. The transceiver will automatically resume scanning approximately 5 seconds after the communication is completed.
- If there is no activity and you want to leave the scan mode, press the SCAN button momentarily and the unit will return to normal operation; **SCAN** icon will disappear from the LCD display.


### **Auto Key Lock Selection Mode**

This feature prevents accidental channel change to the preferred settings of the unit. The Auto Key Lock function temporarily disables the MODE and SCAN Buttons.

To access the Auto Key Lock selection menu:


- From FRS standby mode, press and hold the Scan Button for over 2

seconds to Lock the Auto Key function; the (  ) icon appears on the display.

- The Power, PTT, Up/Down and Monitor Buttons are not effected.
- To unlock the Auto Key function, press and hold the SCAN button for at least 2 seconds; the icon (  ) disappears from the display.

**NOTE:** If the unit is turned off while Key Lock is on, the Key Lock mode will still be in effect when the unit is turned on again.


### **Out of Range Indication**

The FRS-3000PK provides an Out-of-Range indication when reception is no longer intelligible or too weak to be discernible. When this condition occurs, the **OUT OF RANGE** message and  icon appears on the display, reminding you that you are outside the 2-mile range of the unit, or that signal reception is being obstructed by native or man-made objects.

## **Base Station Weather Band Operation**

### **Weather Channel Selection**

The weather channel selection feature of the Desk-Top Base Station Transceiver provides access to 10 channels within the weather band (7 NOAA channels and 3 Canadian marine channels). To enter the radio weather channel mode, proceed as follows:

- From the FRS standby mode, press and hold the MODE button for at least 2 seconds; a melody will sound and the unit will enter the weather standby mode. The NOAA weather icon (  ) will appear on the display accompanied by background noise.
- From the Weather band standby mode, press the MODE button once so the channel number flashes.
- Press the Up (\*12) button briefly to move to the next higher weather channel number.
- Press the Down (\*12) button briefly to move to the next lower weather channel number.


- Momentarily press the PTT button to confirm weather channel selection.

To exit the Weather mode, press and hold the MODE button for at least 2 seconds.

#### **Weather Alert Mode**



When the unit is in the weather standby mode (FRS), if a weather alert signal is received, the unit will generate a warning tone. The unit will then revert to the previously selected weather channel for monitoring purposes.

To access the weather alert function:

- From Weather Band standby mode, press the MODE button twice to access the weather alert function; the weather alert icon (  ) and **AL On** or **oF** appear flashing on the display.
- Press the Up or Down button briefly to select weather alert **On** or **oF** as desired.

**NOTE:** When **On** is selected, and the PTT button is pressed to confirm the weather alert mode, the alert icon will blink on and off at 5-second intervals, indicating the weather alert mode is active and is monitoring one of 10 weather channels.

#### **Mobile Transceiver Battery Alert**

When the battery icon (  ) blinks on the LCD panel, recharge unit or install fresh batteries. If the batteries are not replaced the (  ) icon will appear and an audio tone will sound to warn the user that the batteries must be replaced.

#### **NOTES FOR GOOD COMMUNICATION**

- 1 .The FRS-3000PK 14 channels are shared on a 'take turns' basis. This means other groups may be talking on any of the channels. A common code of ethics/courtesy is to switch to another vacant channel and not to attempt to talk over someone who is already using the channel you first selected.

2. The FRS-3000PK has been designed to maximize performance and improve transmission range in the field. To avoid interference, it is recommended that you do not use the units closer than 5 feet apart.
3. For best transmission results, always keep your mouth about 2-3 inches from the microphone (12, \*14) and speak slowly in a normal voice.
4. To increase battery life in the hand-held transceiver, avoid features such as Scan and Dual Watch. These features will reduce operating time considerably.

### **Warning**

- Remove the batteries from the hand-held transceiver if it is not expected to be used for long periods. This will eliminate the possibility of chemicals leaking from the batteries and corroding the transceiver.
- Avoid exposing the transceivers to water or extremes of temperature.
- Do not use these devices in or near a mining facility, which uses remotely triggered explosives or in areas labeled "Blasting Area". Premature or accidental detonation may result.
- Do not attempt to modify or in any way increase the output of these transceivers. The outputs are designed to meet the legal limits set by the FCC.
- Do not use these devices or change the batteries in potentially explosive atmospheres as sparks in such areas could result in an explosion.
- Turn your transceiver off wherever posted notices restrict the use of radios or cellular telephones. Facilities such as hospitals may use equipment that is sensitive to RF energy.
- Turn your transceiver off on board aircraft when requested to do so.
- Do not place your hand-held radio in front of a vehicle's air-bag. If the air-bag deploys, it could propel the transceiver like a projectile causing bodily injury.

## Troubleshooting

Problem	Possible cause	Correction
No transmission while pressing the PTT Button	Weak batteries (mobile unit)	Charge or replace batteries
	Incorrect battery polarity (mobile unit)	Install the batteries following the directions in paragraph Installing the Batteries.
Weak or no signal received	Weak batteries (mobile unit)	Charge or replace batteries
	Channel and privacy code not set the same as target transceiver	Adjust the transceiver's settings to match those settings of the target transceiver
	Volume level too low PTT Button inadvertently depressed	Increase volume level Release PTT Button
	Excessive radio interference on a particular channel Obstruction of radio signal	Change to a different channel Avoid operating in or near large buildings or vehicles
Unit beeps, but will not function when turned on	Batteries extremely discharged (mobile unit)	Charge or replace batteries
Reception of unwanted signals	CTCSS privacy mode not on	Turn on the CTCSS privacy mode and set code number to match the setting of the target transceiver.
	Interference from electronic devices such as computers or TVs	Turn the devices off or move farther away from them.



## Technical Specifications:

### General

Frequency Range:	Refer to Frequency Charts
Channel Spacing	12.5 kHz
Privacy Codes	38 for each main channel
Dimensions (W x D x H):	
Mobile Unit	2.10 in x 1.10 in x 3.86 in 53.4 mm x 28.0 mm x 98.0 mm
Base Unit	6.3 in x 4.7 in x 2.15 in 160mm x 120 mm x 55mm

### Power Supply

Power Source:	
Mobile Unit	Alkaline Batteries, AAA (4), 6 VDC Ni-MH rechargeable, AAA (4), 4.8 VDC, 650 mAh
Operating Time	30 hours (Alkaline Batteries) (5: 5: 90 ratio based on alkaline batteries)
Base Unit	AC Wall Adapter (supplied): Input: 120 VAC Output: 9.0 VDC, 500 mA

### Receiver

Useable Sensitivity	>-119 dBm
Maximum Audio Output Power	> .03 Watt maximum (8 Ohm )
Modulation Distortion	< 5% (1 kHz 60%)

### Transmitter

RF Output Power	0.5 Watt maximum
Maximum Deviation	<+/- 2.5 kHz
Modulation Distortion	< 5% (1 kHz 70%)

This transceiver complies with FCC regulations for use in the United States of America. Use in other countries may be prohibited or restricted by local regulation. Please check with the local regulating agency before using this device outside the United States of America.

### FRS Channel Frequencies:

Channel	Freq. MHz	Channel	Freq. MHz
1	462.5625	8	467.5675
2	462.5875	9	467.5825
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

### Weather Channel Frequencies:

Channel	Freq. MHz	Channel	Freq. MHz
1	162.550	6	162.500
2	162.400	7	162.525
3	162.475	8*	161.650
4	162.425	9*	161.775
5	162.450	10*	163.275

\*Canadian Marine

**Continuous Tone Coded Squelch System Tone  
Frequencies (in Hz)**

<b>CTCSS</b>	<b>Freq. Hz</b>	<b>CTCSS</b>	<b>Freq. Hz</b>
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

\* oF = No Tone

## 90 DAY LIMITED WARRANTY

*Applies to Audiovox Family Radio and General Mobile Service Products.*

AUDIOVOX CORPORATION (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the Company's option) without charge for parts and repair labor.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the warranty center at the address shown below.

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