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## SAFETY PRECAUTIONS

**ATTENTION:**

This radio complies with the FCC RF exposure limits for Occupational Use Only.

**FCC WARNINGS:**

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

**Safety Training Information:**

Your FM handheld transceiver generates RF electromagnetic energy during Transmit mode. This radio is designed for and classified as “Controlled Exposure/Occupation Environment”, meaning it must be used only during the course of employment by individuals aware of the hazards and the ways to minimize such hazards. This radio is NOT intended for use by the “General” population/uncontrolled environment.

This radio complies with FCC RF radiation exposure limits set forth for a controlled environment. This radio should be installed and operated with a minimum distance of one inch (2.5 centimeters) between the radio and your body. Therefore, to ensure that your exposure to RF electromagnetic energy is within the FCC allowable limits for occupational use, always follow below information.

- Do not operate the radio without a proper antenna as this may damage the radio and may also cause you to exceed FCC RF radiation exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio.
- Do not transmit for more than 50% of the total radio use time (“50% duty cycle”). Transmitting for more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.
- Always use memcorp supplied antennas, batteries, belt clips, speaker, mic, etc. Use of unauthorized accessories can cause the FCC RF compliance requirements to be exceeded.
- Always keep the antenna at least one inch (2.5 centimeters) away from the body when transmitting and only use the belt clip when attaching the radio to your belt, etc to ensure that FCC RF exposure compliance requirements are not exceeded.

## **SAFETY PRECAUTIONS (CONTINUED)**

### **IMPORTANT:**

**PLEASE KEEP ALL PACKAGING MATERIAL FOR AT LEAST 90 DAYS IN CASE YOU NEED TO RETURN THIS PRODUCT TO YOUR PLACE OF PURCHASE OR MEMOREX.**

### **SAFETY INFORMATION:**

- Do NOT hold the unit in such a manner that the antenna is next to, or touching exposed parts of the body - especially the face or eyes, while transmitting.
- Do NOT allow children to operate transmitter-equipped radio equipment.
- Do NOT operate the unit near unshielded electrical blasting caps or in an explosive atmosphere, unless it is especially designed and qualified for such use.
- Do NOT press and hold the PTT button when not actually transmitting.
- Do NOT tamper with the internal radio adjustments. Damage to the equipment and/or improper operation may result. There are no user-serviceable parts inside. It is recommended that you return the unit to a qualified Memorex radio communications dealer for any service or parts.
- Do NOT carry the unit by the antenna.
- Avoid extremes in exposure to heat and cold.
- This unit is splash resistant to water. Do not submerge in water.
- Do NOT expose the transceiver to long periods of direct sunlight, nor should the transceiver be placed close to heating appliances.
- Do NOT place the transceiver in excessively dusty areas, humid areas, wet areas, or on unstable surfaces.

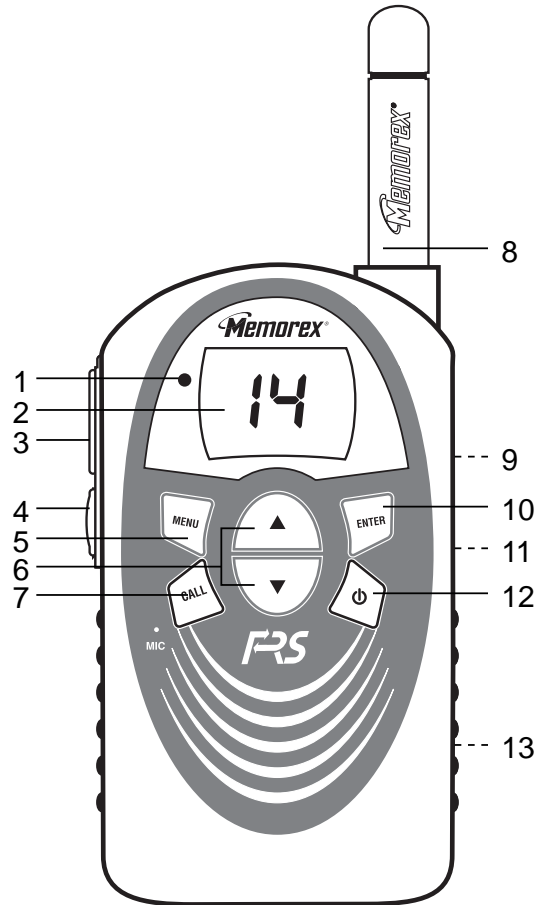
### **MAINTENANCE:**

This unit is designed to be maintenance free, but can be kept in good working condition by following these few recommendations:

- Clean all external surfaces with a clean cloth, dampened in a mild solution of dishwasher detergent diluted in water. Apply the solution sparingly to avoid any moisture leaking into the cracks. Dry the surface thoroughly with a soft, lint-free cloth.
- Do NOT use solvents or spirits for cleaning, they may permanently damage the unit.
- Clean the battery jack contacts with a lint-free cloth to remove dirt.

**Before using, fill out and mail the registration card. This will make sure a permanent record is made with the date of purchase in case service is needed.**

## LOCATION OF CONTROLS



- |                                      |  |
|--------------------------------------|--|
| 1. LED Indicator                     | 9. Microphone/Speaker Jack<br>(Side of Unit) |
| 2. Display                           | 10. ENTER Button                             |
| 3. PTT (Push To Talk) Button         | 11. Belt Clip (Rear of Unit)                 |
| 4. Monitor Button                    | 12. POWER Button                             |
| 5. MENU Button                       | 13. Battery Compartment<br>(Rear of Unit)    |
| 6. VOLUME/CHANNEL<br>Up/Down Buttons |  |
| 7. CALL Button                       |  |
| 8. Antenna                           |  |

## PREPARATION, PRIOR TO USE

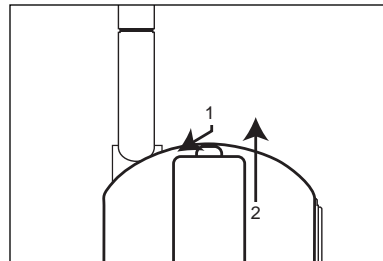
### UNPACKING THE UNIT:

Unpack and check that all the following items have been enclosed:

- Radio Unit with Antenna
- Belt Clip
- Owner's Manual

### ATTACHING THE BELT CLIP:

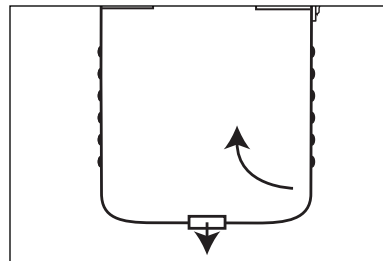
The belt clip will keep the unit from coming in contact with hot surfaces, and keep it away from your body heat. Lift up the tab in the direction of arrow 1 and slide the belt clip up in the direction of arrow 2.



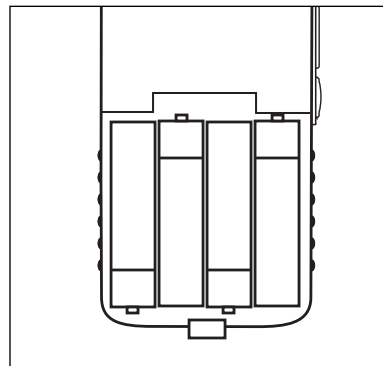
### INSERTING THE BATTERIES:

Open the battery compartment by opening the tab at the bottom of the battery door and lifting it out in the direction of the arrow.

Insert four (4) "AAA" size batteries (not included) following the polarity diagram. Put the battery compartment cover back into place.



The bars in the Battery indicator on the display indicate battery power. One bar means the batteries are low.



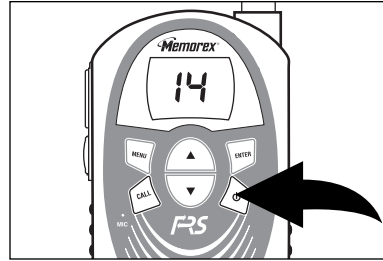
### OPERATIONAL NOTES:

- This unit is transmitting when the red LED indicator is lit (when the PTT button is pressed).
- When transmitting, hold the unit in a vertical position with the microphone one to two inches (2.5 to 5 cm) away from your mouth. Keep the antenna at least one inch (2.5cm) from your head and body.

## OPERATION

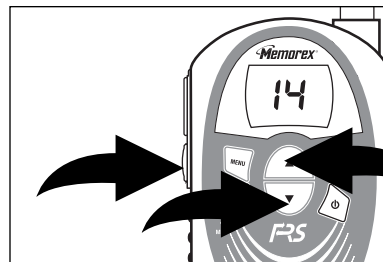
### TO TURN THE UNIT ON/OFF:

Press and hold the POWER button for two seconds; a confirmation tone will sound. Press and hold the POWER button again for two seconds to turn the power off.



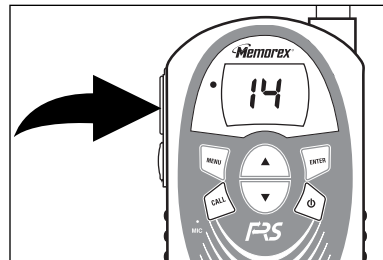
### TO ADJUST THE VOLUME:

Press the VOLUME/CHANNEL Up or Down button to raise/lower the volume. The number on the display will indicate the volume level. If necessary, press and hold the Monitor button when adjusting so sound will be heard through the speaker.



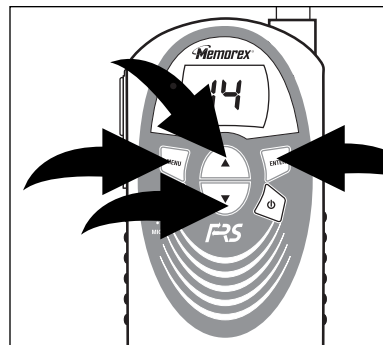
### TO TRANSMIT:

To transmit, press and hold the PTT button and speak into the built-in microphone (or the external microphone, if connected). When the PTT button is pressed, the LED indicator will light red and the speaker will be muted. When the PTT button is released, you can now listen to incoming messages.



### TO SELECT A CHANNEL:

To select a channel, press the MENU button; "CH" and the channel number will blink. Within 3 seconds, press the VOLUME/CHANNEL Up or Down button to raise/lower the channel number, then press the ENTER button to confirm. The channel number will appear on the display.



### RANGE:

This unit has an approximate range of between two and three miles. The range is dependent on the terrain, buildings, steel/concrete, etc. General rules for a longer range are being at a high elevation, having minimal obstructions in your way, and a line of sight communication.

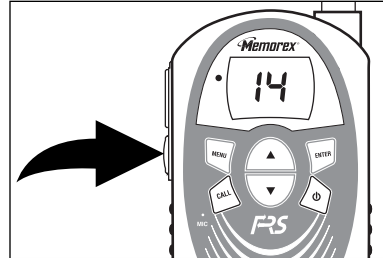
## OPERATION (CONTINUED)

### LISTENING TO TRANSMISSIONS:

When the unit is on, it will automatically broadcast the incoming signal when a strong incoming signal is received on the selected channel.

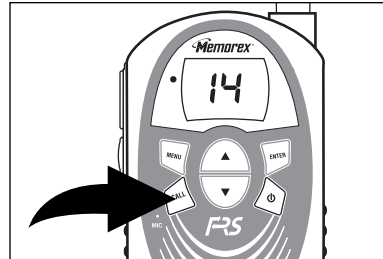
### AUTO SQUELCH/MONITOR:

This unit is equipped with Auto Squelch, which will automatically mute weak transmissions and unwanted noise. Auto Squelch can be temporarily turned off using the Monitor button.




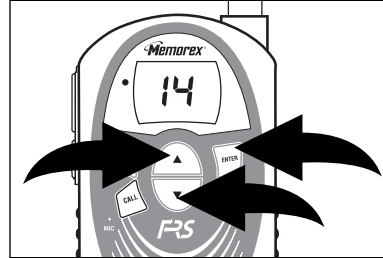
### SENDING A CALL TONE:

Call tone sounds like a telephone ring, and is convenient to contact another radio. To activate, press the CALL button and the other radio will ring to alert the user that you are trying to contact them.



### KEY LOCK:

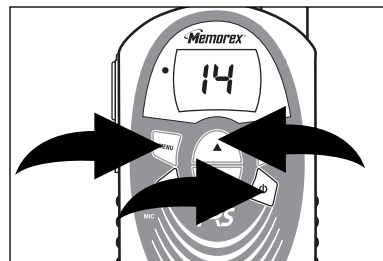
To prevent accidentally changing the channel, press and hold the ENTER button for one second, the  indicator will appear. When the Key Lock is activated, the MENU and VOLUME/CHANNEL buttons cannot be temporarily disabled. Press and hold the ENTER button again to turn the Key Lock off; the Key indicator will go out.



### TO TURN THE BEEP ON OR OFF

This unit will beep when a button is pressed. To turn this beep off, make sure the unit is OFF and press and **hold** the MENU button and the UP button together. While holding these buttons, press and **hold** the POWER button until the unit turns on; the BEEP indicator will be gone from the display and the unit will not beep.

Repeat this procedure to turn the beep back on; the BEEP indicator will appear in the display and a beep will be heard when a button is pressed.



## OPERATION (CONTINUED)

### BATTERY SAVE:

When a signal is not received and no operations are being performed (no buttons pressed, etc.), the battery save function will decrease the amount of power used.

### FCC LICENSING:

The Federal Communications Commission requires the operator of this unit to be properly licensed under the applicable Part and/or Parts of the FCC Rules and Regulations.

Consult your Memorex radio communications dealer, or contact the nearest FCC Field Office for information about a license.

### USING THE MICROPHONE/SPEAKER JACK:

A microphone/speaker cable (available separately) can be connected to this unit as follows:

1. Remove the Microphone/Speaker cover, located on the right side of the unit.
2. Plug a Microphone/Speaker cable into the Microphone/Speaker jacks.

**NOTE:** This automatically disconnects the internal speaker. Adjust to a desired volume level, but do not adjust the volume too high to avoid damage to your hearing.

### FREQUENCY RANGE:

FRS CHANNEL	CHANNEL 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



## SPECIFICATIONS

### A. Receiver

1. Sensitivity for 12 dB signal .....0.25  $\mu$ V
2. Max.audio out @ 10% THD.....300 mW
3. Max.S/N ratio @ 1mV RF input.....40 dB
4. Squelch sense .....0.2  $\mu$ V
5. Audio frequency response  
@ 300 Hz .....+/- 10 dB  
@ 3000 Hz .....+/- 10 dB
6. Adjacent channel rejection .....50 dB
7. Intermodulation rejection .....50 dB
8. Spurious response rejection .....50 dB

### B. Transmitter

1. Effective radiated power.....500 mW (MAX)
2. Modulation limiting .....2.5 kHz (MAX)
3. Audio frequency response .....  
@300 Hz .....+/- 10 dB  
@3000 Hz .....+/- 10dB
4. Audio distortion .....3%
5. Hum & noise .....30 dB
6. Carrier attack time .....80 mS

### C. Power Supply

1. Battery life (1-Tx : 1- Rx : 8- Standby ) .....30 Hours
2. Battery AAA x4 .....4.6 ~ 6.0 V

**Specifications subject to change without notice.**

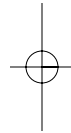
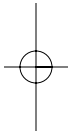
FOR ADDITIONAL SET-UP OR OPERATING ASSISTANCE, PLEASE VISIT OUR WEBSITE AT

**WWW.MEMCORPINC.COM**

OR CONTACT CUSTOMER SERVICE AT 1-800-919-3647

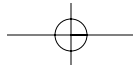
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FOR PARTS AND ACCESSORIES, CONTACT FOX INT'L AT 1-800-321-6993.



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# **Memorex®**

## **14 CHANNEL FAMILY RADIO SYSTEM**

### **MODEL: MKS-1710**

**BEFORE OPERATING THIS PRODUCT,  
PLEASE READ THESE INSTRUCTIONS COMPLETELY.**



## **OPERATING INSTRUCTIONS**