## 1. Your Tek City Two-Way Radio

Soft Flex Antenna

Belt Clip on Back

Power Button

Back Lit LCD Display

Push-to-Talk Button

Monitor Button

Volume Up Button

Volume Down Button

Microphone

Speaker

## Basic Operation

### A) Power On/Off

To turn the Tek City FRS Radio On:

1. Press and hold [ ⏻ ] to turn the power on.
2. A melody tone will sound.

To turn the Tek City FRS Radio Off:

1. Press and hold [⏻] to turn the power off.
2. A melody tone will sound.

Note: All current status will be stored into the Radio's memory after the machine has been turned off.

## B) Volume Adjustment

*There are eight volume bars on the display window to indicate current volume level.*

To adjust the volume to a comfortable listening level:
Press the volume up button [+] or volume down button [-] located on the side of the transceiver to increase/decrease the volume.

## C) Operating the Channel Selection

*The Tek City FRS Two Way Radio has 14 operation channels and 38 sub-tones. In order to talk to others, all transceivers in your group must be set to the same channel. The default operation channel is 1 with no sub-tone.*

### To set the operation channel:

1. Press [MODE] and the current operation channel number will appear and blink in the display window.
2. Press the 'up' [▲] or 'down' [▼] key to change the channel selection.
3. After choosing a channel number, press the monitor button [L/M] to confirm your selection. The unit should now be set to the desired channel number.
4. If you make a mistake or wish to cancel your selection, press the Push to Talk button [PTT]. You are now free to make another selection.

## D) Memory Recall

FRS Radio allows you to store 10 memory (0-9) as chosen. You can recall your previously stored channels and sub-tones by using this function.

After entering the memory menu, it will display the default of memory 0 : Channel 1 and no sub-tone. Use Up[▲] and Down [▼] to adjust channel number and press enter to confirm. Once the channel number is confirmed, then the sub-tone will blink and press Up[▲] and Down [▼] to change sub-tone frequency. Press enter[●] to confirm your selection.

CTCSS code table

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

unit: Hz

## E) Communicating with Others

### To transmit a message to another Radio:

1. Press and hold the Push To Talk button [PTT] and speak into the microphone to transmit a message.
2. Hold the transceiver 2 to 4 inches away from you and speak at a normal volume.
3. Transmitting icon [ ◖ ] will appear in the display window

### To receive a message from another Radio:

1. Release the [PTT] button. If set to the same operation channel as another party, your transceiver will automatically receive all signals from them.
2. Receiving icon [ ⧸ ] will appear in the display window.
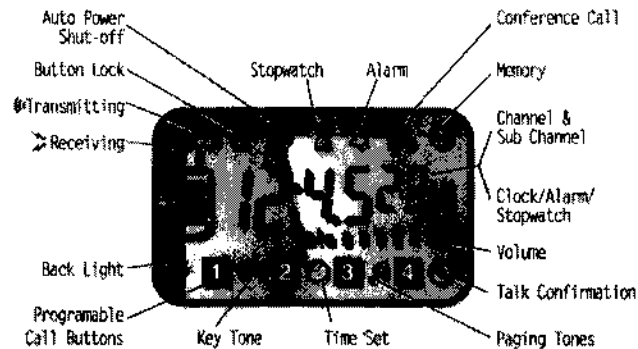
## F) Paging Tone

*The paging function allows you to be instantaneously identified by transmitting a personal page tone to receiving parties. 10 different paging tones are available.*

## G) Scanning channels

You can reset the channels to different frequencies as desired. Press [MODE] to display the blinking operating channel number. Press and hold the Up [▲] and Down [▼] buttons to scan the channel numbers in the corresponding directions. The scanning process will stop when a signal is received. The scanning process will start again after the signal disappears. Press Enter [●] to hold and confirm this channel.

## 3. Special Features and Functions

# LCD DISPLY FEATURES



Auto Power Shut-off
Button Lock
Transmitting
Receiving
Back Light
Programable Call Buttons
Stopwatch
Alarm
Key Tone
Time Set
Conference Call
Memory
Channel & Sub Channel
Clock/Alarm/Stopwatch
Volume
Talk Confirmation
Paging Tones

## Menu Mode Operation

To enter into the menu mode,

1). Press and hold [MODE] for 2 seconds.
2). All the menu icons will be displayed on the window.

To choose between functions, press up[▲] or down[▼] to move among the icons. The icon will blink once it is selected. Press Enter[ ● ] to confirm a selection and Esc [■] to cancel a selection. Press [PTT] to return to digital clock display.

## Special Features

### A) Button lock

To activate the button lock function, press Up[▲]. To turn it off, Up [▲] again. Press [ ● ] to confirm your selection, choose[■] to cancel.

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** [+], [-], enter[●],up[▲] down[▼] will be locked when the button lock function is activated.

** The [+], [-], enter[●], up[▲] and down[▼] buttons will only be locked after exiting the menu mode. To unlock the buttons, simply press and hold [MODE] for 2 seconds.

### B) Auto Power Shut-off

Tek City Two Way Radio has an automatic shut off feature with the default preset to 2 hours. You can adjust the default time by entering the auto power off menu, then select 1-9 hours as desired. Press enter [●] to confirm and Esc [■] to cancel.

You can turn off this function by choosing "Off" when you are in the auto power shut off mode.

### C) Alarm

After entering the alarm menu, press Up[▲] or Down [▼] to reset the alarm function to on/off respectively. By choosing off, the menu will automatically return to previous menu.

Press 'on' to enter the alarm clock setting mode. Then the hour digit will blink. Press Up [▲] or Down[▼] to select the digit. Hold down either button to change the numbers at high speed. Either 12-hr or 24-hr format will be displayed depending on the format you choose for the clock setting.

Press Enter [●] to confirm the hour setting and then go to minute setting. Press Up [▲] and Down [▼] keys to change. Press Enter [●] to confirm.

### D) Back light

This function allows you to see the LCD display during the night. After entering the back light menu, use Up[▲] and Down [▼] to select "on" and "off" function of the back light. Use Enter [●] to confirm and ESC [■] to cancel.

### E) Key tone

Upon entering the key tone menu, press Up[▲] or Down [▼] to choose on/off function of the key tone. Select Enter [●] to confirm or Esc [■] to cancel.

## F) Digital Clock

You can select the 12-hr or 24-hr format by using the Up[▲] or Down [▼] keys. Upon entering the digital clock menu, The digits '12' or '24' will be displayed.

Use Enter [●] to confirm and enter into the time setting menu. The hour digits will blink. Then use Up[▲] and Down [▼] keys to change to the desired digit of the hour. You can speed up the process by holding down either buttons. Press Enter [●] to change the selection to minutes and repeat the same process. Select Enter [●] to confirm your selection. If you want to go back to reset the hour, simply press Esc [■] to change.

## G) General Call Melody

Use Up[▲] or Down[▼] to pick 10 different general call melodies (0-9) of your choice as your desired call melody. Press Enter [●] to confirm and Esc [■] to cancel.

## Appendix
### Privacy Monitoring Function (CTCSS Selection)

*The Privacy Monitoring Function, CTCSS or sub-tone allows you to avoid listening to unwanted callers. The Privacy Monitoring Tone will block unwanted transmission from other callers who are using the same channel. In order to receive transmission only from selected callers, you must set all members of your group to the same CTCSS code, i.e. the same sub-tone. For a list of CTCSS sub-channels and their frequencies, see the CTCSS Frequency Table in previous page.*

## Care and Maintenance

### Battery Notice

- Install 4AAA 1.5V alkaline batteries (not included) or optional 1.2 Vrechargeable AAA batteries, correctly observing the polarity (+, -) signs to avoid leakage.
- Minimun operation voltage is 4.6V
- Do not mix old and new batteries.
- Do not use batteries of different types.
- Remove exhausted or new batteries from the unit when not in use them for an extended period of time.
- Do not dispose of batteries in a fire.
- Do not attempt to recharge ordinary batteries.
- Moisture will damage the electronics.

### Care of the Radio

- Handle the unit gently, do not place on unstable surfaces or excessively dusty areas.
- Use a soft cloth to clean the radio. Permanent damage may occur by using detergent or solvents on the transceiver.
- Never place the unit in water, if it gets wet, turn it off and remove the batteries immediately. Use soft, dry cloth to dry the battery compartment to reduce the potential damage.
- Do not use the transceiver when it is wet. Leave the battery cover open until it is completely dry.

**Trouble Shooting Guide**

| Problem | What to do |
|---|---|
| The LCD Display is blank or unclear. | - Check to be sure the batteries are inserted properly.<br>- Check battery level. |
| The volume is too low or high | - Use the volume [up] or [down] button set to a comfortable volume.<br>- Check battery level. |
| Cannot communicate with Others. | - Make sure the [PTT] button is completely pressed as you transmit.<br>- Make sure the [PTT] button is released as you receive.<br>- Make sure the two radios are set to the same channel and/or sub-tone.<br>- Make sure the volume is set to a proper level.<br>- Inside building, vehicle or obstruction may affect communication.<br>- Check battery level.<br>- Units are too far apart. |
| Receiving Noise or unwanted conversation | - Choose another channel and/ or sub-tone. |
| Talk range is very short | - Inside building, vehicle or obstruction may affect talk range.<br>- A clear line of sight will improve the transmission.<br>- Wearing the radio close to the body eg inside a pocket may decrease the range.<br>- Change the position or location of the radio. |

| | |
|---|---|
| Heavy interference or static. | - Radios are too close to each other.<br>- Increase the distance to at least 5 feet.<br>- Units are too far apart.<br>- Barriers or obstacles may interfere with the transmission. |

Warning: Adjustment to this unit or replacement of any transmitter component (crystal, semiconductor, etc.) to this unit that could result in a violation of the rules.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio/TV technician for help.