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Buttons and Controls

1) **On/Off/Volume** – Turn counter-clockwise to power ON and increase listening volume. Rotate clockwise to decrease volume and turn power OFF.

2) **PTT (Push to Talk)** – Press to transmit, release to receive.

3) **PAGE** – Press to send a call tone to other radios tuned to the same channel.

4) **CHANNEL** (up/down) – Press the up arrow to increment and down arrow to decrement.

5) **MON** – Press to deactivate the automatic squelch feature and listen to the air traffic on the current channel before initiating transmission. Press the MON button again to return to standby.

6) **MODE** – Use for setting individual CTCSS codes and selecting call tones.

7) **Accessory Jack** – Insert optional headphones into the accessory jack to listen to calls. This will disable the built-in speaker.

8) **MIC** – Built-in microphone

9) **Speaker** – Built-in speaker

10) **Antenna**

Display

1) **Battery Icon** – Indicates the battery level. When the batteries are nearly drained, the icon will start to blink, and the unit beeps peridically.
2) **RX icon** – Indicates when the unit is receiving a transmission.
3) **TX icon** – Indicates when the unit is transmitting.
4) **Subcode CTCSS icon** – Shows the current sub code number (0-38).
5) **Channel number** – Shows the current channel (1-14).
6) **CALL icon** – Displays call tone number (1-5).
7) **Lock Icon** – Displays when the keypad lock is turned on.

Battery Installation

Your radio uses 3 AA Alkaline batteries for power. To install the batteries:
1) Remove the battery compartment door by sliding it down from the unit.
2) Install 3 AA Alkaline batteries (not included) into the battery compartment. Be certain to follow the + and – symbols in the compartment. Installing the batteries incorrectly will prevent the unit from operating.

Note: In order to maintain your user settings (CTCSS code assignment, current channel, etc.) make sure the unit is off before removing the batteries. Your settings will remain for approximately 10 minutes while you install the new batteries.

Low Battery Alert

When the batteries in the unit are low, the unit will emit a "low battery" tone indication. Replace the batteries immediately to continue using the radio.

Belt Clip Installation and Removal

To install the belt clip, line up the grooves on the clip with the grooves on the back of the unit. Push downward until it snaps into place.

To remove the belt clip, release the snap with your finger or a tool while firmly pushing the clip upward.

Using Your Family Radio

1. Turn on power.
2. Check the battery condition on the display
3. Set to desired channel.
4. Adjust volume to comfortable level.

To Transmit

Press the **PTT** button. Speak slowly and clearly 2-3 inches from the microphone. To avoid cutting off the first part of your transmission, pause slightly after pressing the **PTT** button before you start talking. The transmit symbol is displayed while the unit is transmitting.

To Receive

When you are finished talking, release the **PTT** button to listen to the transmission. The receive icon is displayed while the unit is receiving.

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Note: Remember if several family radios are in use as a talk group, they must all be on the same channel with the same CTCSS code setting to communicate. (See advance features for selecting CTCSS codes)

Changing Channels

Press the **CHANNEL** (up/down) button to change channels. The channel may only be changed during receive mode and cannot be changed during **PAGE** or **PTT** transmit mode.

Selecting a CTCSS Code

This feature uses a sub-audible tone to prevent unwanted calls from interrupting your conversation when there are other people using the same channel you are on. The unit has 38 available CTCSS (Continuous Tone Coded Squelch System) codes which can be individually assigned to any of 14 channels. If code "0" is assigned, the CTCSS is not turned on.

Once activated, the sub-audible tone is transmitted each time the **PTT** button is pressed. Additionally, the radio only responds to incoming signals using the same CTCSS tone.

Note: This feature does not prevent other people from hearing your conversations. It is intended to prevent unwanted incoming conversations only.

To select a CTCSS code for the currently displayed channel, press the **MODE** button once. Use the **CHANNEL** (up/down) button to select the desired code.

When finished, any of the following will return to Standby Mode:

- Press the **MODE** button two times.
- Wait 12 seconds.
- Press the **PTT** or **PAGE** buttons.

Transmitting a Call Alert Tone

Press the **PAGE** button to initiate an Alert Tone transmission. The Alert Tone will automatically be transmitted for a fixed length of time.

You may choose from 5 distinct pre-programmed call tones (1-5). Press the **MODE** button twice followed by the **CHANNEL** (up/down) button to select the desired tone. As you select the tone, you will hear it through the speaker but it will not be transmitted until the **PAGE** button is pressed.

When finished, any of the following will return to Standby Mode:

- Press the **MODE** button one time.
- Wait 12 seconds.
- Press the **PTT** or **PAGE** buttons.

Adjusting Keypad Beeps

Your radio emits a beep each time one of the buttons is pressed. To turn this sound OFF, press **PAGE** while turning on the radio. To turn this sound ON, press **PAGE** while turning on the radio again.

LCD Backlight

The LCD back light will automatically be turned on with any key press. The LCD display will be illuminated for 12 seconds before turning off.

Auto Squelch Feature

Your radio is equipped with an automatic squelch system which shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

The Auto Squelch may be temporarily deactivated by momentarily pressing the **MON** (Monitor) button. Press the **MON** button again to re-engage the Auto Squelch.

Automatic Power Save Feature

Your radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission within 12 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

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Specifications

Description

Channels	14
CTCSS Codes	38 Sub-Audible Tones
Operating Frequency	UHF 462.550-467.725 MHz
Power Source	3AA Alkaline Batteries
Output Power	500mW ERP maximum
Battery Life	45 Hours (5/5/90 duty cycle)

Channel Frequency Chart (Mhz)

Channel	Frequency	Channel	Frequency
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 Chart (Hz)

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

FCC Information

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) 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 Thomson Consumer Electronics 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 the settings inside the radio to exceed those limitations. Any adjustments 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.

Service Information

Standard Service statement

Limited Warranty

Standard Warranty statement.