Programming Guide

*S.A.M.E Digital Weather / AllHazards Alert Radio
With AM/FM Digital Radio

CEA-2009-A Certified Alert Receiver

Model: R-1650C

Public Alert Certified

Reecom Electronics Inc.

http://www.reecominc.com

Features:

More Than 170 Hours Battery Back-up Operation When A/C Power Failure During Emergency Period. This unique feature is very important to all users!!

S.A.M.E. (Specific Area Message Encoding) Operation
- Receives and decodes alert messages to text on LCD
- capible to filter out alerts that is not declared in your area

7 Weather Channels - digital PLL tuning to NOAA channels

LCD - Two-Line Alert Messages and Effective Time display

LCD Back Light - continuous back light selectable

LED - indicates Warning, Watch and Advisory alert levels

Voice Alert - automatically activates voice announcement

Siren Volume Control - Sixteen (16) siren loudness levels

Digital Volume Control - Sixteen (16) voice loudness levels

Event Memory - stores up to 25 alert messages with date/time

County Code Memory - stores / monitors up to 26 counties

Selectable Defeat Siren - sets siren On / Off for some events

Automatically switches from AM/FM radio to All Hazards / Weather Alert

Time Function - real time clock and Auto-Calendar on display

Dual Alarm Clocks - buzzer alarms up to 1 hour

Battery Low Detection - detects backup battery voltage level

External Antenna Jack - allows to connect external antenna

Alarm Out Socket - allows to connect external control system

Audio Out Socket - provides audio source to external system
Setting Up the Radio

The radio offers you an extensive range of functions which are grouped in program menu pages as shown below. To access the program menu page, press PROG key for two seconds. Scroll with or key through the menu pages and select the menu page by pressing ENTER key. Select submenu pages and settings of your choice in the same way. Press PROG key to return to the previous menu level, and keep pressing PROG key to exit the program menu page. If no key are pressed for about 5 minutes, the radio will exit program menu page automatically. Two-beep sound indicates wrong key is pressed.

<table>
<thead>
<tr>
<th>Menu Page</th>
<th>Menu Page Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>SET DATE TIME</td>
</tr>
<tr>
<td>P2</td>
<td>CHANNEL SELECT</td>
</tr>
<tr>
<td>P3</td>
<td>ENTER COUNTY</td>
</tr>
<tr>
<td>P4</td>
<td>ALERT MODE</td>
</tr>
<tr>
<td>P5</td>
<td>SIREN VOLUME</td>
</tr>
<tr>
<td>P6</td>
<td>SET EVENT BLOCKING</td>
</tr>
<tr>
<td>P7</td>
<td>ALARM SOCKET</td>
</tr>
<tr>
<td>P8</td>
<td>SIREN TEST</td>
</tr>
<tr>
<td>P9</td>
<td>SET ALARM 1</td>
</tr>
<tr>
<td>P10</td>
<td>SET ALARM 2</td>
</tr>
<tr>
<td>P11</td>
<td>SLEEP TIMER</td>
</tr>
</tbody>
</table>

Setting Date / Time

The date and time must be set correctly since they will be logged into the event memory upon the alert message reception.
1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Press ENTER key to select menu page P1.
3. Press or key to set Month.
4. Press or key to set Day.
5. Press or key to set Year, Hour and Minute respectively.
6. Repeat steps 4 & 5 to set Year, Hour and Minute respectively.
7. Press ENTER key to save.

**Tips** Press and hold or key will change the number continuously. Release the key to stop.

Obtaining Weather Channel/County Codes From NOAA

In order to receive alerts, the radio must be set to the correct weather channel and county code(s) (FIPS code). To get this information for your area, call the NWS toll free number: 1-888-NWS-SAME (1-888-697-7263), or visit the NOAA web site: http://www.nws.noaa.gov/nwr/indexnw.htm

In the above web site, search the state and county for your area and then write down the Channel (Frequency) and county code(s). You may want to obtain the codes for other local areas that you travel through to work. The radio memory can store up to 26 county codes (FIPS codes) to monitor alerts.

Setting Weather Channel

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Press key to menu page P2.
3. Press ENTER key to select.

**Hint** Press or key to adjust the volume.
4. Press key to set the weather channel as you desired.
5. Press ENTER key to confirm and complete this section.

Storing County Code

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing key to menu page P3.
3. Press ENTER key to select.
4. Press or key to select county option.

**Hint** Press PROG key will leave this section without update.

**Info** There are three (3) county options available for your selection. They are:
1. ALL COUNTY CODES,
2. MULTIPLE COUNTY and
3. SINGLE COUNTY.
The radio initially sets to the **ALL COUNTY CODES** by default. With this option, the radio will respond to all alerts regardless of the affected areas as long as the channel is correctly set.

If you want to monitor alerts in more than one county (area), the **MULTIPLE COUNTY** option would be the choice. You can store up to 26 county codes in the radio memory. The more the county codes you store in the radio, the broader the area coverage the radio will monitor and vice versa.

If the **SINGLE COUNTY** option is selected, the radio will monitor alerts only affecting your local county / area. You must store the county code in the first memory location which is **COUNTY 01**.

5. Press **ENTER** key to confirm.
   - **Hint**: If the **ALL COUNTY CODES** option is selected, this section is completed.

6. Press ▼ or ▲ key to scroll memory locations for county code entry / edit.
   - **Hint**: If there is no county codes stored in the memory, go to next step.

7. Press **ENTER** key to select.
8. Press ◄ or ► key to input the desired code number.
   - **Tips**: Press and hold ◄ or ► key will continuously change the number. Release the key to stop.
9. Press ▲ key to the next digit.
10. Repeat steps 8 & 9 to input the 2nd to 6th digit.
11. Press **ENTER** key to save.
   - **Hint**: If any one of the code digits is blank (_), the input will not be updated.

Repeat steps 6 to 10 to enter the next county code, if any.

Press **PROG** key to leave this section.
- **Note**: If there is no county codes stored in the memory, the radio will re-set to **ALL COUNTY CODES** option automatically.

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### Setting Alert Mode

The **Alert Option Table** below describes how the radio will respond in both visual and audio upon receiving alerts.

- **Alert Enable** and **VOICE** options are preset by default. If you are satisfied with this setting, skip this section.

<table>
<thead>
<tr>
<th>Alert Option:</th>
<th>You Hear:</th>
<th>ALARM OUT Socket:</th>
<th>You See:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alert Enable</td>
<td><strong>VOICE</strong></td>
<td>8 seconds siren, then, voice broadcast the message (maximum 15 minutes) or until you press <strong>STOP</strong> key.</td>
<td>Activates for 8 seconds</td>
</tr>
<tr>
<td>SIREN</td>
<td>5 minutes siren or until you press <strong>STOP</strong> key.</td>
<td>Activates for 5 minutes or until you press <strong>STOP</strong> key.</td>
<td></td>
</tr>
<tr>
<td>Alert Disable</td>
<td>No siren and voice broadcast</td>
<td>Not activate</td>
<td></td>
</tr>
</tbody>
</table>

**Alert Option Table**

- **Tips**: At the **VOICE** option, after voice broadcast, the radio will return to the previous state.

1. Press and hold **PROG** key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing ▲ key to the menu page **P4**.
3. Press **ENTER** key to select.
4. Press ▲ key to select the alert option either **Alert Enable** or **Alert Disable**.
   - **Note**: Press **PROG** key will leave this section without update.
5. Press **ENTER** key to confirm.
   - **Hint**: If **Alert Disable** is selected, this section is completed.
6. Press ▲ key to select either **VOICE** or **SIREN** option.
7. Press **ENTER** key to confirm and complete this section.
Setting Siren Volume

The radio provides 16 siren volume level adjustment for different noise environment and hearing impaired use. Siren mute option is available for non-critical events.

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing P5 key to menu page.
3. Press ENTER key to select. The siren volume is displayed.
4. Press ▼ or ▲ key to adjust siren volume.
5. Press ENTER key to save and complete this section.

The radio provides 16 siren volume level adjustment for different noise environment and hearing impaired use. Siren mute option is available for non-critical events.

1. Press STOP key to stop and save the siren volume.
2. The ALARM OUT socket becomes active during siren.

If the radio receives the below alert messages and the siren volume has been set to 00 or SIREN MUTE, it will still be siren at the volume level the same as to what you have previously set the volume to hear radio broadcast.

- BIOLOGICAL HAZARD WARNING
- CIVIL DANGER WARNING
- CIVIL EMERGENCY MESSAGE
- CHEMICAL HAZARD WARNING
- DAM BREAK WARNING
- CONTAGIOUS DISEASE WARNING
- CONTAMINATED WATER WARNING
- EMERGENCY ACTION NOTIFICATION
- EMERGENCY ACTION TERMINATION
- EARTHQUAKE WARNING
- IMMEDIATE EVACUATION
- FOOD CONTAMINATION WARNING
- HAZARDOUS MATERIALS WARNING
- HURRICANE WARNING
- INDUSTRIAL FIRE WARNING
- LOCAL AREA EMERGENCY
- LAW ENFORCEMENT WARNING
- LAND SLIDE WARNING
- NUCLEAR POWER PLANT WARNING
- RADIOLOGICAL HAZARD WARNING
- SHELTER IN-PLACE WARNING
- TORNADO WARNING
- TROPICAL STORM WARNING
- TSUNAMI WATCH
- TSUNAMI WARNING
- VOLCANO WARNING
- WILD FIRE WARNING

Receiving Alert Message

When the radio receives an alert message, it will display the Effective Time and respond according to the alert option set in program menu page P4 (refer to Alert Option Table). The flashing LED indicates the alert level (Warning, Watch, or Advisory/Statement). The radio's real time clock/date, together with the alert message will be logged and saved into the event memory.

For the scrolling message, press and hold STOP key will stop scrolling. Release the key will resume scrolling.

When the radio receives Non-Alert Messages (refer to page 6), it will not give audio and visual response but save the message to the event memory. If a new message is received, the Non-Alert Message will be cleared from the event memory right away.

National Weather Service (NWS) Test Signals

Periodic test signals (Required Weekly Test or Required Monthly Test) are sent out by NWS transmitter stations. Such test signals are used to let the users to confirm their alert radios in use functioning properly.

Upon receiving the test signal, the radio will display the test message on the LCD. The beep tone (for test signals) is disabled by default. You can enable the beep tone in program menu page P6.

If the radio has not received any messages (e.g. Test, Alert or Non-Alert messages) for consecutive 10 days, the LCD will display: RE-CHECK SET UP.

In such occasion, you have to do:
1. Check if the weather channel is set correctly.
2. Check if the county codes stored are right for your local area.
3. Check if the radio is in weak signal range (statics).
4. Contact your local NOAA to see if they transmit test signals periodically.

The RE-CHECK SET UP message will disappear in about 5 minutes after any key is pressed. After that, you can review it in the event memory by pressing MEMORY key. It will be cleared from the memory as soon as the radio decodes the next coming message.
### Alert / Test Message Table

<table>
<thead>
<tr>
<th>Event No.</th>
<th>Alert Message on Display</th>
<th>Audio Alert Tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>REQUIRED WEEKLY TEST</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>2.</td>
<td>REQUIRED MONTHLY TEST</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>3.</td>
<td>ADMINISTRATIVE MESSAGE</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>4.</td>
<td>AVALANCHE WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>5.</td>
<td>AVALANCHE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>6.</td>
<td>BOIL WATER WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>7.</td>
<td>BLIZZARD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>8.</td>
<td>CHILD ABDUCTION EMERGENCY</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>9.</td>
<td>COASTAL FLOOD WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>10.</td>
<td>COASTAL FLOOD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>11.</td>
<td>DAM WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>12.</td>
<td>DUST STORM WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>13.</td>
<td>EVACUATION WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>14.</td>
<td>FLASH FLOOD STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>15.</td>
<td>FLASH FLOOD WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>16.</td>
<td>FLASH FLOOD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>17.</td>
<td>FLOOD STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>18.</td>
<td>FLOOD WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>19.</td>
<td>FLOOD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>20.</td>
<td>FIRE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>21.</td>
<td>FLASH FREEZE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>22.</td>
<td>FREEZE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>23.</td>
<td>HIGH WINDWATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>24.</td>
<td>HIGH WIND WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>25.</td>
<td>HURRICANE STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>26.</td>
<td>HURRICANE WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>27.</td>
<td>ICEBERG WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>28.</td>
<td>NATIONAL INFORMATION CENTER</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>29.</td>
<td>NATIONAL PERIODIC TEST</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>30.</td>
<td>NATIONAL AUDIBLE TEST</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>31.</td>
<td>NATIONAL SILENT TEST</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>32.</td>
<td>NETWORK NOTIFICATION MESSAGE</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>33.</td>
<td>PRACTICE / DEMO</td>
<td>Beep (disabled by default)</td>
</tr>
<tr>
<td>34.</td>
<td>POWER OUTAGE ADVISORY</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>35.</td>
<td>SPECIAL MARINE WARNING</td>
<td>Warning Siren</td>
</tr>
</tbody>
</table>

### Alert Test Message Table (continue)

<table>
<thead>
<tr>
<th>Event No.</th>
<th>Alert Message on Display</th>
<th>Audio Alert Tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.</td>
<td>SPECIAL WEATHER STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>37.</td>
<td>SEVERE WEATHER STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>38.</td>
<td>SEVERE THUNDERSTORM WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>39.</td>
<td>SEVERE THUNDERSTORM WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>40.</td>
<td>TORNADO WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>41.</td>
<td>911 TELEPHONE OUTAGE EMERGENCY</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>42.</td>
<td>TROPICAL STORM WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>43.</td>
<td>WINTER STORM WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>44.</td>
<td>WINTER STORM WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>45.</td>
<td>WILD FIRE WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>46.</td>
<td>UNRECOGNIZED STATEMENT</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>47.</td>
<td>UNRECOGNIZED WATCH</td>
<td>Watch Siren</td>
</tr>
<tr>
<td>48.</td>
<td>UNRECOGNIZED EMERGENCY</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>49.</td>
<td>BIOLOGICAL HAZARD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>50.</td>
<td>CIVIL DANGER WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>51.</td>
<td>CIVIL EMERGENCY MESSAGE</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>52.</td>
<td>CHEMICAL HAZARD WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>53.</td>
<td>CONTAMINATED WATER WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>54.</td>
<td>DAM BREAK WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>55.</td>
<td>CONTAGIOUS DISEASE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>56.</td>
<td>EMERGENCY ACTION NOTIFICATION</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>57.</td>
<td>EMERGENCY ACTION TERMINATION</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>58.</td>
<td>EARTHQUAKE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>59.</td>
<td>IMMEDIATE EVACUATION</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>60.</td>
<td>FOOD CONTAMINATION WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>61.</td>
<td>HAZARDOUS MATERIALS WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>62.</td>
<td>HURRICANE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>63.</td>
<td>INDUSTRIAL FIRE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>64.</td>
<td>LOCAL AREA EMERGENCY</td>
<td>Advisory Siren</td>
</tr>
<tr>
<td>65.</td>
<td>LAW ENFORCEMENT WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>66.</td>
<td>LAND SLIDE WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>67.</td>
<td>NUCLEAR POWER PLANT WARNING</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>68.</td>
<td>RADIOLOGICAL HAZARD WARNING</td>
<td>Warning Siren</td>
</tr>
</tbody>
</table>
Setting Event Blocking (defeat siren / voice)

Some alert messages can be set to no audio alert (SIREN and VOICE) but display the messages on the LCD in order not to annoy you frequently. These messages are grouped from Event No. 1 to 48 in the Alert Message Table. When the radio receives such a message e.g. REQUIRED WEEKLY TEST, and you have already set it blocked, there will be no siren nor voice alert but display the message on the LCD.

The messages below are initially set to block at the factory (by default).

<table>
<thead>
<tr>
<th>Event No.</th>
<th>Alert Message on Display</th>
<th>Audio Alert Tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>REQUIRED WEEKLY TEST</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>2</td>
<td>REQUIRED MONTHLY TEST</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>3</td>
<td>ADMINISTRATIVE MESSAGE</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>4</td>
<td>NATIONAL INFORMATION CENTER</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>5</td>
<td>NATIONAL PERIODIC TEST</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>6</td>
<td>NATIONAL AUDIBLE TEST</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>7</td>
<td>NATIONAL SILENT TEST</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>8</td>
<td>NETWORK NOTIFICATION MESSAGE</td>
<td>Warning Siren</td>
</tr>
<tr>
<td>9</td>
<td>PRACTICE / DEMO</td>
<td>Warning Siren</td>
</tr>
</tbody>
</table>

Note

- The audio alert tone can be tested in menu page P8, SIREN TEST.
- The alert messages from Event No. 1 to 48 in the Alert / Test Message Table can be individually set to block or unblock. See next section for details.
- The alert messages from Event No. 49 to 76 in the Alert / Test Message Table are always preset to unblock at the factory (by default). Defeat siren options for these alert messages are not available in the Editing Event Blocking section.

Non - Alert Messages

When the radio receiving Non-Alert Messages described in the table below, it will not generate audio tone nor display the message on the LCD but the message will be saved to the event memory. A new received message will over-write the Non-Alert message in the event memory.

Non - Alert Message Table

<table>
<thead>
<tr>
<th>No.</th>
<th>Non-Alert Messages</th>
<th>Audio Alert Tone</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRANSMITTER BACKUP</td>
<td>None</td>
</tr>
<tr>
<td>2</td>
<td>TRANSMITTER CARRIER OFF</td>
<td>None</td>
</tr>
<tr>
<td>3</td>
<td>TRANSMITTER CARRIER ON</td>
<td>None</td>
</tr>
<tr>
<td>4</td>
<td>TRANSMITTER PRIMARY ON</td>
<td>None</td>
</tr>
</tbody>
</table>

Editing Event Blocking

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing key to menu page P6.
3. Press ENTER key to select.
4. Press key to scroll through the alert messages to edit.
5. Press ENTER key to select the message to be edited.
6. Press key to set block or not.
7. Press ENTER key to confirm.
8. Repeat steps 4 to 7 to edit others if you desire.

Press PROG key to end this section.

The ALARM OUT socket will not be activated if the blocked event is received.

Alert Disable (flashing) = Event Blocked
Alert Enable (flashing) = Event Not Blocked
ALARM OUT Socket

The ALARM OUT socket is provided on the back of the radio. The socket's output is compatible with home automation devices from suppliers such as Plug'n Power, X-10 or others. Connect a 3.5mm (1/8inch) phone jack with polarity as indicated underneath the socket.

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing ► key to menu page P7.
3. Press ENTER key to select.
4. Press ► key to select DC OUT or SWITCH option.
5. Press ENTER key to confirm.
To exit the program menu, press PROG key.

If the socket is set to DC OUT, then when the radio receives alerts, the socket will output 6 Volts DC (the voltage will be less when the radio is only powered with back-up batteries) to the external connected device. (the output polarity is shown underneath the socket)

If the socket is set to SWITCH (as internal POWER SWITCH), then, when the radio receives alerts, the internal power switch will be 'closed' and to turning on the power of the external connected device / accessory. Press STOP key to 'open' the internal switch.

Refer to program menu page P8 (SIREN TEST) to test this function, if necessary.
For this function, the socket's electrical maximum rating is: DC voltage: 12 Volt.
DC current: 350mA.

AUDIO OUT Socket

The socket outputs siren and voice broadcast signal to the external audio systems such as Public Address system, external speaker system and etc. When it is necessary to use this socket, connect the 3.5mm (1/8 inch) phone jack to the socket with polarity as indicated underneath the socket; the speaker voice is muted. The volume keys ⊹ or ⊸ controls the audio output level.

Siren Test

The SIREN TEST menu page P8 lets you to pre-hear and be familiar with the actual siren / beep tone generated by the radio when actual alerts / tests are received.

In addition, the ALARM OUT socket function can be tested here. If desired, connect the external device to the socket before proceeding to the steps below.

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing ► key to menu page P8.
3. The warning siren, watch siren, advisory siren and beep tone will be generated respectively each time you press ► or ENTER key.

1. The siren / beep tone will last for about 15 seconds.
2. Press STOP key to stop the siren / beep tone.
3. During the siren, the ALARM OUT socket will output control signal to trigger the external device.
4. When the siren / beep tone stops, press PROG key to exit program menu page.

Info

Hint

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing ► key to menu page P8.
3. Press PROG key to select.
4. Press ► key to select DC OUT or SWITCH option.
5. Press ENTER key to confirm.
To exit the program menu, press PROG key.

If the socket is set to DC OUT, then, when the radio receives alerts, the socket will output 6 Volts DC (the voltage will be less when the radio is only powered with back-up batteries) to the external connected device. (the output polarity is shown underneath the socket)

If the socket is set to SWITCH (as internal POWER SWITCH), then, when the radio receives alerts, the internal power switch will be 'closed' and to turning on the power of the external connected device / accessory. Press STOP key to 'open' the internal switch.

Refer to program menu page P8 (SIREN TEST) to test this function, if necessary.
For this function, the socket's electrical maximum rating is: DC voltage: 12 Volt.
DC current: 350mA.

AUDIO OUT Socket

The socket outputs siren and voice broadcast signal to the external audio systems such as Public Address system, external speaker system and etc. When it is necessary to use this socket, connect the 3.5mm (1/8 inch) phone jack to the socket with polarity as indicated underneath the socket; the speaker voice is muted. The volume keys ⊹ or ⊸ controls the audio output level.
Deleting County Code

1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing ▶ key to menupage P3.
3. Press ENTER key to select.
4. Select the MULTIPLE COUNTY option.
5. Press ENTER key.
6. Press ◀ or ▶ key to select the county code you want to delete.
7. Press ◀ or ▶ key to set all 6 digits to _ _ _ _ _ _ (blank) and press ENTER key to delete.
To delete other county codes, repeat steps 6 & 7.

Tips: A beep tone confirms the county code was deletion.

Press PROG key to end this section.

Operation

LCD Back Light
If the radio is powered up by AC adapter, press ENTER key to turn on/off LCD back light (toggle key function).
If the radio is powered up by battery, press any key once will turn on the LCD back light for 10 seconds.

Info

Standby Mode: When the radio is ready for use, no voice on the speaker, and you have not pressed any key, the radio is in standby mode.

Access to Program Menu Page
- Press and hold PROG key for 2 seconds. (in standby mode)

Review Stored County Codes
- Press ◀ or ▶ key (in standby mode) to see the county code(s).

Review Alert Message
- Press MEMORY key (in standby mode) to enter event memory mode.

Info

If the radio has not received any alert message ever since the radio powered up, the LCD will display: 'NO EVENT MESSAGES'.
If alerts have been received before, you will see the alert message and the message number on the display. The highest message number is for the latest alert message. The effective time will be shown if the alert event is still in effect. The 'Effective Time OFF', if shown, indicates the event effective time count down has expired but the emergency event may still continue.
The radio’s memory can store up to 25 alert messages. If the memory is full and if a new message receives, the oldest message will be cleared and the new message will be saved to the memory.

Tips

Press MEMORY key again, you will see the date / time stamp for the alert message at the time received. The message number is shown on the bottom right at this time.

Note

You must set the real time clock and date correctly to ensure the message receiving time in event memory is properly displayed.
- Press ◄ or ► key to scroll through other alert messages if any.
- Press PROG key to exit event memory mode, if desired.

   (Hint)
   If no key pressed for 2 minutes, the event memory mode will be exit automatically.

**Turn On the Radio**

- Press RADIO key to turn on the radio.

   (Tips)
   Press RADIO key again, the weather channel frequency will be displayed for a short while if the radio is in weather band.

- Press ◄ or ◄ key to adjust the speaker volume if desired.

   (Tips)
   Press and hold the key will adjust the volume continuously.

- Press BAND key to switch band (AM/FM/WX).
- Press ◄ or ► key to tune stations in AM/FM band.

   (Tips)
   Press the key and hold briefly, then release it, the radio will auto-search the next station.
   If you desire to tune to a weak station, press the key briefly and repeatedly until you find optimal reception.
   To improve radio reception, for FM band, pull out the telescopic antenna, incline or rotate it to get better signal reception. For AM band, the antenna is built inside the radio, orient the radio to find the direction for optimal reception.

**Turn Off the Radio**

- Press STOP key will turn off the radio voice and the radio will be in standby mode.

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**AM/FM Station Memory**

You can store up to 16 radio stations in the radio memory.

Of the 16 memories, the radio allocates 8 station memories for AM and FM band each.

**Station Memory Save**

1. Press RADIO key to turn on the radio.
2. Press ◄ or ► key to tune to your desired station.
3. Press MEMORY key to enter the radio memory menu.
4. Press ◄ or ► key to select the memory location.
5. Press ENTER key to save the radio station.

   (Hint)
   Press MEMORY or PROG key to exit radio memory menu.

**Station Memory Recall**

1. Press RADIO key to turn on the radio.
2. Press ◄ or ► key to select the preset radio station.

**Intro-Scan Function**

This function allows you to scan the AM/FM radio station automatically by turning on the radio and press INTRO-SCAN key. In the scanning mode, the radio will stop on the tuned station for 10 seconds to play. During this time, if you want the radio stay tuned, press Intro-Scan key to exit intro-scan mode.
Otherwise, the scanning process will be continued.

Press INTRO-SCAN key to exit scan mode.
Sleep Function (Radio Timer)

The radio provides sleep function with sleep cycle time from 1 minute to 1 hour 59 minutes (in one (1) minute resolution). After turning on the radio, press SLEEP key to start this function. When the sleep timer has counted down to expire, the radio will turn off automatically. The sleep function is only available in AM/FM band.

Set Sleep Timer
1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing key to menu page P11.
3. Press ENTER key to select.
4. Press or key to set the timer.
Press and hold the or key, the sleep timer value will change continuously. Release the key to stop.
5. Press ENTER key to save.
To exit program menu, press PROG key.

Using Sleep Timer Function
1. Turn on the radio in AM/FM band.
2. Press SLEEP key to activate sleep function, the sleep timer will shown on the display.

Subsequent presses on SLEEP key will show the remaining time.

If you decide to turn off the radio sooner, press SNOOZE or STOP key and this will stop the sleep cycle.

Alarm Clocks

The radio offers two (2) alarm clocks with two (2) alarm modes, BUZZ and AUTO, for each. The default alarm times are 7:00 AM and 7:30 AM for alarm clock 1 and 2 respectively.

Set Alarm Clock 1:
1. Press and hold PROG key for 2 seconds to enter program menu page. Skip this step if it is now in program menu.
2. Keep pressing key to menu page P9.
3. Press ENTER key to select.
4. Press or key to set hour.
5. Press key to select minute digits.
6. Press or key to set minute.
7. Press ENTER key to save.
To exit program menu, press PROG key.

Set Alarm Clock 2:
Follow steps 1 to 7 as above but in program menu page P10.

Activate Alarm Clocks
Press ALARM 1 or ALARM 2 key to activate alarm 1 or 2.
You can activate either one or both of them.
The alarm clock time will be shown for 5 seconds.
The icon or indicates BUZZ alarm 1 or 2 has activated.
The icon or indicates AUTO alarm 1 or 2 has activated.
The AUTO alarm will turn on the radio at the last receiving station.

Stop Alarm
Press STOP key to turn off the alarm or radio.
Press SNOOZE key will turn off the alarm or radio for about 7 minutes. After that it will re-activate. The SNOOZE function can repeat for up to 1 hour.

De-activate Alarm Clocks
Keep pressing ALARM 1 or ALARM 2 key until the alarm clock icons disappeared.