Basic User Guide

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Safety Information

This user guide covers the operation of the CM360 and CM340 Mobile Radios.

Attention!

This radio is restricted to occupational use only to satisfy ICNIRP RF energy exposure requirements. Before using this product, read the RF energy awareness information and operating instructions in the Product Safety and RF Exposure booklet (Motorola Publication part number 6866537D37_) to ensure compliance with RF energy exposure limits.

Caution

Before using this product, read the operating instructions for safe usage contained in the Product Safety and RF Exposure booklet 6866537D37_ enclosed with your radio.

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RADIO OVERVIEW

Radio Controls

The numbers below refer to the illustrations on the inside front and rear covers.

1. On-Off / Volume Knob
   Used to turn the radio on or off, and to adjust the radio's volume.

2. LED Indicators
   Indicate radio status:
   Green: Solid during power up routine; Off after successful power up; flashing when scanning.
   Red: Solid when transmitting; flashing - channel is busy receiving.
   Yellow: Solid when radio is being called; flashing - group call reminder; double flash - individual call reminder.

3. Mic Jack
   CM360 Radios
   4. LCD Display
      An 8 character single line display with up to 8 radio status icons.
   5. Navigation up or down
      Used for channel scrolling, menu navigation and scrolling menu lists.
   6. Menu Button
      Used to access the menu and select the menu options.
   7. Programmable Buttons
      Dual function buttons. Short press selects function 1; long press selects function 2.

CM340 Radios

4. LCD Display
   A single digit (0 to 9) display, shows the Channel number. The display also shows a dot to indicate High power selected. If Talkaround mode is selected, the channel number will flash when in "Talkaround".

5. Up/Down key
   Used for channel scrolling.

6. Programmable Button 1

7. Programmable Button 2

Microphone Controls

(Keypad Microphone - CM360)

Hold the microphone 2.5 to 5 cm (1-2 inches) from your mouth, and speak clearly into it.

8. Keypad

9. Programmable Keys

10. Push-to-talk (PTT)
    Press and hold down this button to talk; release it to listen.

11. Microphone
## Audio Signal Tones

<table>
<thead>
<tr>
<th>Tone</th>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power up OK</td>
<td><img src="https://example.com/signal1.png" alt="Signal" /></td>
<td>Radio self-test OK.</td>
</tr>
<tr>
<td>Power up Fail</td>
<td><img src="https://example.com/signal2.png" alt="Signal" /></td>
<td>Radio self-test fail.</td>
</tr>
<tr>
<td>Button/Keypad Error</td>
<td><img src="https://example.com/signal3.png" alt="Signal" /></td>
<td>Button/kepad key/ menu key press not permitted.</td>
</tr>
<tr>
<td>Engaged</td>
<td><img src="https://example.com/signal4.png" alt="Signal" /></td>
<td>Channel busy or not permitted to transmit.</td>
</tr>
<tr>
<td>Call Failed</td>
<td><img src="https://example.com/signal5.png" alt="Signal" /></td>
<td>Call failed to connect.</td>
</tr>
<tr>
<td>Force Monitor</td>
<td><img src="https://example.com/signal6.png" alt="Signal" /></td>
<td>Radio must monitor channel before transmission permitted.</td>
</tr>
<tr>
<td>Button Feature Enable</td>
<td><img src="https://example.com/signal7.png" alt="Signal" /></td>
<td>Any option button pressed to enable a feature.</td>
</tr>
<tr>
<td>Button Feature Disable</td>
<td><img src="https://example.com/signal8.png" alt="Signal" /></td>
<td>Any option button pressed to disable a feature.</td>
</tr>
<tr>
<td>Group Call</td>
<td><img src="https://example.com/signal9.png" alt="Signal" /></td>
<td>Radio receives a Group Call.</td>
</tr>
</tbody>
</table>

### Tone Signal Description

- **Individual Call**: Radio receives an Individual Call.
- **Call Reminder**: Reminder of unanswered call.
- **TOT Pre-Alert**: Warns of expiry of time out timer.
- **Monitor Alert**: Alerts to change of squelch.
- **Voice Storage Recording (CM360)**: Voice Storage-Recording.
- **Voice Storage Warning (CM360)**: Voice Storage-Warning.
- **Voice Storage Full (CM360)**: Voice Storage-Full.
- **Scan Start**: Radio starts scanning.
- **Scan Stop**: Radio stops scanning.
- **Priority Call Decode**: Radio detects a priority call.
- **Priority Channel**: Radio landed on the priority channel.
<table>
<thead>
<tr>
<th>Tone</th>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lone Worker</td>
<td></td>
<td>Reminds lone worker to respond.</td>
</tr>
<tr>
<td>Hardware Error</td>
<td></td>
<td>Hardware error, tone continues until valid operation.</td>
</tr>
<tr>
<td>Cancel Message</td>
<td></td>
<td>Previous message or message currently being played from Voice Storage has been deleted.</td>
</tr>
<tr>
<td>Channel Free Beep</td>
<td></td>
<td>Indicates current channel is free.</td>
</tr>
<tr>
<td>Incoming Emergency Alert</td>
<td></td>
<td>Indicates an emergency situation.</td>
</tr>
<tr>
<td>Keypad Acknowledge</td>
<td></td>
<td>Confidence tone when any key pressed.</td>
</tr>
<tr>
<td>Call Stacked</td>
<td></td>
<td>Indicates that call has been stacked. Sounded on calling radio.</td>
</tr>
<tr>
<td>Ringtones</td>
<td>English/French/General</td>
<td>Incoming calls (high tones), outgoing calls (low tones).</td>
</tr>
</tbody>
</table>
Programmable Buttons

Several of your radios keys and buttons can be programmed, by Customer Programming Software (CPS), as short-cut buttons for many of the radio's features. Programmable buttons include:

- **CM360**
- **CM340**

**Keypad microphone**

Each button is dual function; a short press may select one function, a long press may select the second.

Check with your dealer for a complete list of the functions your radio supports.

Menu Keys (CM360)

**Menu Select Key**

- **Short press**
  Used to enter the Menu Mode. When in Menu Mode, this key is also used to make menu selections.
- **Long press**
  Normally used to move up to the next higher Menu level. When the top level menu is selected, this key is used to exit the Menu Mode.
  - However when in the bottom level menu (e.g. contact list, status multicall entry), this key selects the entry.
  - The radio also exits the Menu Mode after an "Inactivity Time" timeout.

**Up /Down Navigation Keys**

Used to scroll when in Menu Mode.
Increment/decrement channel number or scroll contact and status lists.

Refer to the menu navigation chart for menu selectable features.
Menu Navigation Guidelines

- short press \( \text{Pt} \) to enter Menu Mode.
- \( \uparrow \) or \( \downarrow \) to scroll through the Menu options.
- short press \( \text{Pt} \) to select Menu option
- long press \( \text{Pt} \) return to previous menu level
- \( \uparrow \) or \( \downarrow \) to scroll through the Menu sub-list.
- long press \( \text{Pt} \) to select bottom level menu entry and return to default display.
LCD DISPLAY AND ICONS (CM360)

Displays radio Status, Addresses or Channel, on one line of 8 characters. The top line of the display shows radio status icons, explained in the table below:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Name and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>⚡️</td>
<td>Option Board Indicator</td>
</tr>
<tr>
<td></td>
<td>Indicates that an option board is fitted in the radio.</td>
</tr>
<tr>
<td>🔊</td>
<td>Voice Recorder Indicator</td>
</tr>
<tr>
<td></td>
<td>Flashing indicates that there are stored messages or memos in the voice recorder.</td>
</tr>
<tr>
<td>📡</td>
<td>Power Level Indicator</td>
</tr>
<tr>
<td></td>
<td>“L” lights when your radio is configured to transmit in Low Power. “H” lights when your radio is configured to transmit in High Power.</td>
</tr>
<tr>
<td>🔉</td>
<td>Monitor Indicator</td>
</tr>
<tr>
<td></td>
<td>On indicates carrier squelch. Off indicates signalling squelch.</td>
</tr>
<tr>
<td>📡</td>
<td>Scan Indicator</td>
</tr>
<tr>
<td></td>
<td>Indicates that you are scanning. The dot is lit during priority scan mode when scan has landed on priority channel.</td>
</tr>
<tr>
<td>🎵</td>
<td>DTMF Indicator</td>
</tr>
<tr>
<td></td>
<td>Indicates DTMF is enabled.</td>
</tr>
<tr>
<td>🎵</td>
<td>Missed Call Indicator</td>
</tr>
<tr>
<td></td>
<td>On indicates call in list. Off indicates no calls in list. Flashing, indicates new call in list.</td>
</tr>
<tr>
<td>🎵</td>
<td>Talkaround Indicator</td>
</tr>
<tr>
<td></td>
<td>Indicates talkaround enabled.</td>
</tr>
</tbody>
</table>

Note: At extremely low temperatures, you may experience a slight delay in displaying new information. This is normal and does not affect the function of your radio.
GETTING STARTED

Turning the Radio On/Off

Adjusting the Volume

Turn the On/Off/Volume Control knob clockwise to increase the volume, or counterclockwise to decrease the volume.

Radio On Message (CM360)

At power up the radio may display a message customised by your dealer, e.g.:

RADIO ON

After this text has been displayed, the radio performs a self test routine. During the routine the Green LED lights. On completion of a successful self test the radio produces the Self-Test pass Tone, the Green LED indicator goes out and the display shows the channel that was in use at power down, typically:

CHAN 35

This may be a number or an alias and will be the current channel.

Radio On Indication (CM340)

At power up the radio performs a self test routine. During the routine the Green LED lights. On completion of a successful self test the radio produces the Self-Test pass Tone, the Green LED indicator goes out and the display shows the Channel that was in use at power down.

If the radio fails the power up routine the power up fail tone sounds and the error number is displayed.

Note: If your radio fails the self test routine, record the error number and consult your dealer.
Selecting a Radio Channel
Your radio offers up to 100 channels (CM360), 10 channels (CM340), however some may not be programmed. Check with your dealer for more information. Press \( \neg \) to increment the Channel number or \( \neg \) to decrement it.

Using a Memory Channel button
A programmable button may be pre-programmed by your dealer as a Memory Channel button, allowing you quick access to a frequently used channel. A press of the button will take you to the assigned channel.

Using the Microphone Keypad (CM360)
(If programmed)
Enter the desired channel number on the keypad. Press \( \# \) on the keypad or a short press on \( \neg \) (CM360 only) selects the channel.

Sending a Call
1. Select the desired radio channel.
2. Press the PTT button and speak clearly into the microphone. Your mouth should be 2.5 to 5 cm away from the microphone.
3. When transmitting, the red indicator will light continuously.
4. Release the PTT button to listen.

Your radio may be configured for 'Transmit Inhibit' under certain conditions (e.g. when the channel is in use by others) in which case, the channel busy tone will sound when you press the PTT or call button to indicate that transmission is inhibited.

Making a Selective Call
You can make a selective call to a particular radio, known as an individual call, or a group of radios, known as a group call.

You can make calls by using the Contact List, the Missed Calls List or Manual Dialling (using the keypad microphone).
Receiving a Call

1. Turn your radio on and adjust the volume level.
2. Switch to the desired radio channel.
3. If, at any time, a call is received you will hear the call at the volume level you have set.

Note: The system may have a limited call time and the call may be terminated automatically if this call time is exceeded.

Answering a Call

1. Press the PTT button or Call button.
2. The call will terminate automatically when the conversation has ended or you press the Monitor button.

Cancelling a Call

At any time while setting up a call, it may be cancelled by pressing the Monitor/Call Cancel button, or replacing the microphone in its holder (referred to as going “on hook”). The call timer can also cancel a call.

Ending a Call

A call should always be ended by pressing the Monitor/Call Cancel button, or replacing the microphone in its holder.