

iDEN
LM 3000E
Getting Started

68P81084C17-0

Welcome

Congratulations on your purchase of the iDEN Advanced Feature Mobile (LM3000E) by Motorola. This manual explains all the features that are available on your mobile.

The Advanced Features Mobile lets you make and receive person-to-person or group radio calls, send and receive alphanumeric Status Messages, and initiate Emergency Group Calls. The unit also supports 4.8 Kb circuit data for FAX/modem use (when a Handset is connected with a Data Hangup Cup).

Before operating your unit, take time to read the “Safety and General Information” section. For operation of the Advanced Feature Mobile used with a Handset, see the section titled, “Handset.”

General Features

Group Call-Your organization can be set up in different talkgroups so you can have one-to-many radio communication. Talkgroups can be based on local, targeted, or wide area selections.

Private Conversation-Private Conversation™ is used for one-to-one private radio communication.

Call Alert-You can send Call Alerts™ to individuals, indicating that you want to speak to them.

Horn and Lights-Causes your vehicle’s horn and lights to come on and flash each time you receive a Private Call, Status Message, or Call Alert.

Advanced Features

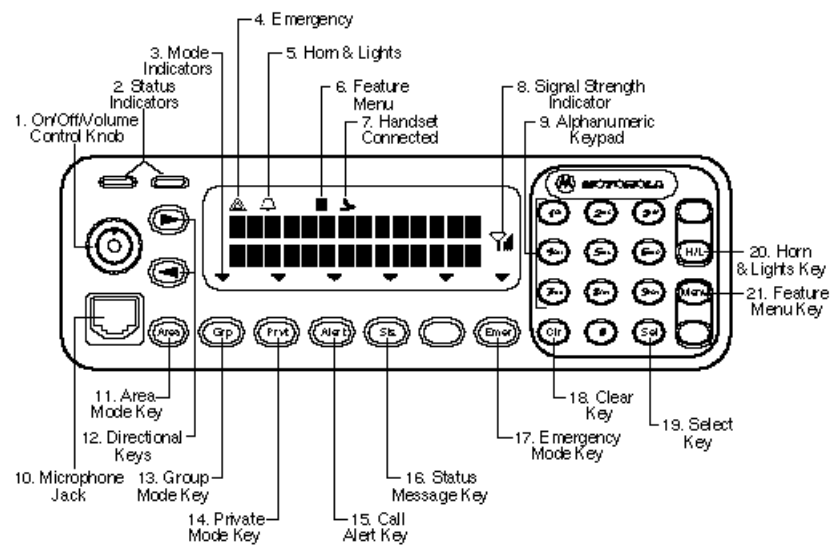
Status Message-You can send Status Messages to individuals. This feature reduces talktime and lets you leave short alphanumeric (aliased) status messages.

Emergency Group Call-This feature provides you with priority access to talkgroup members. It will give you visible and audible indications of an emergency condition.

Feature Menu

An easy to use Feature Menu is provided to customize your radio to meet your individual needs.

iDEN Advanced Feature Mobile



1. **On/Off/Volume Control Knob**— Used to turn the unit on and off and adjust the volume levels.
2. **Status Indicators**—Solid or blinking lights indicate different conditions your unit may be in.
3. **Mode Indicators**— Indicator shows which mode you are currently using.
4. **Emergency**—Graphic indicator of emergency call in progress.
5. **Horn & Lights**—Graphic indication that the Horn and Lights feature is enabled.
6. **Feature Menu**—Graphic indicator of feature menu in use.
7. **Handset Connected**—Graphic showing that the handset is connected.
8. **Signal Strength Indicator**—Graphic showing the strength of the signal.
9. **Alphanumeric Keypad**—Used for direct entry of radio IDs, service area IDs, talkgroup IDs, or names.
10. **Microphone Jack**—Used to connect the microphone.
11. **Area Key**—Used to select service areas.
12. **Directional Keys**—Used to perform Memory Scrolling, option scrolling, and editing.
13. **Group Mode Key**—Used for one-to-many radio communication.
14. **Private Mode Key**—Used for one-to-one private radio communication.
15. **Call Alert Key**—Used to enter call alert mode.
16. **Status Message Key**—Used to enter status message mode.
17. **Emergency Mode Key**—Used to initiate emergency group calls.
18. **Clear Key**—Used to clear your previous keypad entry.
19. **Select Key**—Used to select entry items.
20. **Horn & Lights Key**—Used to turn the Horn and Lights feature on and off.
21. **Menu Key**—Used to review, select, and program radio features.

The Display

The two-line display provides information to operate your mobile unit. There are different modes your unit can be in: Group, Private, Alert, Status, or Emergency. These are your Radio Operation modes. Each mode has a “home” or default screen. To help you become familiar with the display operation, shown below is the “home” screen for Group Call Radio Mode.



Turning On/Off Your Mobile Unit

Press the Power/Volume knob (located on the, left front of the unit) to turn the mobile on and off.

To prevent unauthorized use, your unit will automatically lock when turned on using the power knob (using the ignition switch will not automatically lock your unit). To unlock your unit, enter your passcode. See the “Feature Menu” section for further information on locks.

Each time the mobile is turned on, it performs a self-check and system registration routine. Once completed, the unit will display the last mode it was in.

The display illuminates during the self-check routine to verify operation. Notify your service provider if any error messages are displayed.

When using your mobile while the engine is off, you are operating on your vehicle’s battery power, and may drain the battery.

Automatic Turn On/Off

To enable Automatic Turn On/Off, leave the unit’s power on before turning the vehicle ignition off. Now your unit will automatically turn on every time your vehicle is turned on. Turning off your vehicle’s ignition automatically turns off your unit.

Call-in-Progress Protection

This feature allows calls in progress to continue after the vehicle’s ignition is turned off, without interrupting your conversation.

In Group or Private mode, you must be transmitting in order for Call-in-Progress Protection to operate.

Inactivity Timer

An eight-hour inactivity timer is built into the radio. If the radio is left on for more than eight hours with no activity, the radio will automatically turn off.







Adjusting the Speaker Volume

Turn the Power/Volume knob clockwise to increase or counter-clockwise to decrease the speaker volume.

You can also adjust the speaker and keypad volumes through the Feature Menu. Refer to the “Feature Menu” section for instructions on adjusting these volumes.

Radio Operations

This section explains:

- Basic Operation
- Group Call 
- Private Conversation 
- Call Alert 
- Emergency Call 
- Status Message 
- Horn and Lights 

When idle in radio Group or Private modes (not talking or listening), you are able to receive incoming radio calls. When talking or listening, however, Call Alerts, Private Conversations, and Status Messages are not received.

Basic Operation

To make a radio call:

1. Select the appropriate mode.
2. Hold the microphone in front of your mouth and press the **PTT**. Listen for the tone that lets you know it's okay to talk.
3. After the tone, speak into the microphone.
4. When you are done talking, release the **PTT** to listen.

To respond when someone calls you on the radio:

1. Hold the microphone in front of your mouth and press the **PTT** to talk.
2. Speak into the microphone.
3. Release the **PTT** to listen.

As long as your unit is powered on and is idle, you can receive radio calls.

Group Call

A Group Call consists of a service area and a talkgroup. Service areas are geographic areas of coverage for your radio. Your specific service areas are defined by your service provider. A talkgroup is an organization of radio users who communicate with each other.

In Group Calls, press and hold the **PTT** to talk and release it to listen. Upon pressing the **PTT**, you will hear one of the following alert tones:

- A high, chirp-like tone indicates that you have permission to talk. Begin speaking after the tone.
- A low, continuous tone indicates that you cannot talk at this time. Wait a moment and try again.
- A busy-like tone indicates that the system is busy. Wait for a call-back (high, chirp-like) tone, then try again.

Your unit may be programmed with a courtesy tone. Upon releasing the **PTT**, a courtesy tone alerts listeners that you have completed your transmission.

A time-out timer limits the amount of time you can continuously talk. When the allotted time expires, you will hear a low-pitched cut-off tone.

Service Area Selection

When making outgoing Group Calls, you may choose from three different service area selections:

- Local Area
- Targeted Area
- Wide Area.

Area selection only applies to Group Calls you initiate. Your last-selected area appears on your display, regardless of the origin of any incoming call.

In each case, you are speaking with members of the talkgroup (shown on line 2 of the display) who are in that service area. Your unit is equipped with a pre-programmed list of service areas. You can add, edit, or erase areas. You can also assign names (aliases) to them. (See the “Feature Menu” section for programming information.)

Local Area

A Local Area Group Call allows you to communicate with talkgroup members located in the service area you are currently in. Your radio automatically updates your Local Area as you travel from one service area to another. Dispatchers are always included in a Local Area call, regardless of their location. *(Example: Talk to Talkgroup 7 members in your Local Area. Area 6 is your current Local Area. Talkgroup 7 is your selected talkgroup.)*



2. Press **PTT**.




Pressing the **PTT** allows you to talk with “TALK-GRP 7” members who are currently in your Local Area and your dispatcher.


Targeted Area


A Targeted Area Group Call allows you to communicate with talkgroup members in a specific service area and your local cell. A Targeted Area can be selected by: Direct Entry or Memory Scroll.


- **Direct Entry**


Allows you to use the keypad to input service area IDs. (Example: Select area ID #12 using the keypad. Centreville is service area 1. Area 6 is your current Local Area. Talkgroup 7 is your selected talkgroup.)

1. Press **Grp**.


When in the Local Area, the word "LOCAL" appears before the service area ID or name.
2. Press **Area**.


Area **Grp**
3. Press **1**.


Service area ID #1 has been programmed with a name, Centreville.
4. Press **12**.


Grp
5. Press **PTT**.


The word "AREA" appears before the service area ID unless a name has been programmed.



- **Memory Scroll**

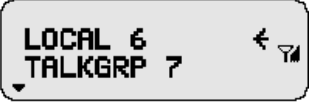


Allows you to use the ◀ ▶ keys to scroll through memory for areas.



When programmed, names appear in place of service area IDs.



(Example: Select “MIDWAY,” which is second in your service area list. Area 6 is your current Local Area. Talkgroup 7 is your selected talkgroup.)

1. Press **Grp**.



2. Press **Area**.




3. Press ▶ twice.



4. Press **PTT**.

Press and hold the ◀ or ▶ keys to activate the Auto Scroll feature. Auto Scroll allows you to quickly scroll through your lists.


Pressing **PTT** allows you to talk with the “TALKGRP 7” members currently in the “MIDWAY” service area plus your local cell.

Pressing **Grp** confirms your service area selection without initiating a Group Call.


Wide Area


A Wide Area Group Call allows you to talk with talkgroup members in all service areas and your dispatcher. (Example: Select Wide Area. Area 6 is your current Local Area. Talkgroup 7 is your selected talkgroup.)

1. Press **Grp**.




When "LOCAL" appears on the display, press **Grp** once to locate Wide Area.
2. Press **Area**.


3. Press **Left Arrow**.



"WIDE AREA" is at the end of your service area list. With the **Left Arrow** on the top line, use your **Left Arrow** **Right Arrow** to scroll to "WIDE AREA."
4. Press **PTT**.



Pressing **PTT** allows you to talk with your dispatcher and the "TALK-GRP 7" members in all service areas.


Pressing **Sel** confirms your Wide Area selection without initiating a Group Call.


Talkgroup Selection

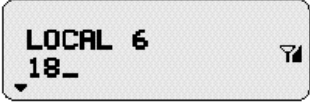
A talkgroup is an organization of radio users who communicate with each other. Your unit is equipped with a pre-programmed list of talkgroups. You can add, edit, or erase talkgroups. You can also assign names (aliases) to them. (See the “Feature Menu” section for programming information.) A talkgroup can be selected by: Direct Entry or Memory Scroll.


- **Direct Entry**

Allows you to use the keypad to input talkgroup IDs. (Example: Select talkgroup 18. “SE PLANT” is talkgroup 1.)

1. Press **Gp**.

LOCAL 6
TALKGRP 7
A small keypad icon is shown below the display.

Talkgroup Selection is independent of Service Area Selection.
2. Press **18**.

LOCAL 6
1_=SE PLANT
A small keypad icon is shown below the display.









To erase a digit, press **←**. To clear all digits, press and hold **←**. To return to your previously selected talkgroup, press **Clr**.
3. Press **PTT**.

LOCAL 6
18_
A small keypad icon is shown below the display.

To transmit, press **PTT**. To listen only, press **Sel**.
The word “TALKGRP” appears before the talkgroup ID unless a name has been programmed.
4. Press **PTT**.

LOCAL 6
TALKGRP 18
A small keypad icon is shown below the display.

Pressing **Sel** confirms your Group selection without initiating a Group Call.

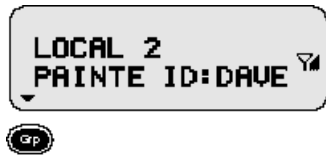
- **Memory Scroll**

Allows you to use the ◀ ▶ keys to scroll through memory for talkgroups. When programmed, names appear in place of talkgroup IDs.
(Example: Select "PAINTERS," which is eighth in the list. Talkgroup 7 is your selected talkgroup and is seventh in the list.)

1. Press  .	 	<div data-bbox="941 630 1239 850" style="border: 1px solid black; padding: 5px;"> Press and hold the ◀ or ▶ keys to activate the Auto Scroll feature. Auto Scroll allows you to quickly scroll through your lists. </div>
2. Press ▶.	 	
3. Press PTT.	 	<div data-bbox="941 892 1239 1039" style="border: 1px solid black; padding: 5px;"> To transmit, press PTT. To listen only, press . </div>

PTT - ID

The PTT - ID displays the ID or alias of the user currently transmitting in a group call.














Private Conversation™

A Private Conversation is a radio call between two individuals. No other radios can hear the conversation. A Private Conversation is placed by selecting the radio ID for the person you want to call. Your unit is equipped with a pre-programmed list of radio IDs. You can add, edit, or erase radio IDs. You can also assign names (aliases) to them. (See the “Feature Menu” section for programming information.) A radio ID can be selected by: Direct Entry or Memory Scroll.

Making a Private Conversation Call

- **Direct Entry**



Allows you to use the keypad to input radio IDs. *(Example: Make a Private Conversation call to Jane. Her radio ID is 12. Jack’s radio ID is 1. The last Private Conversation or Call Alert was with radio ID 5.)*


1. Press  .


2. Press  .


3. Press  .


4. Press **PTT**.



When you enter the mode, the last sent or received radio ID or name appears.


Upon pressing **PTT**, you will hear a tone. Refer to the “Group Call” section for a description of these tones.


- **Memory Scroll**

Allows you to use the   keys to scroll through memory for radio IDs. When programmed, names appear in place of radio IDs. (Example: Call Mark who is the 13th entry in your radio ID list. Jane is 12th.)

1. Press .



When you enter the  mode, the last sent or received radio ID or name appears.

2. Press .



3. Press PTT.



Receiving a Private Conversation Call

Two alert tones signal that you have received a Private Conversation call. In addition, the following message appears on the display, indicating the person calling you. (Example: *Mark is Private calling you.*)



The person's ID appearing on the display is stored as the last radio ID received. When programmed, names appear in place of radio IDs.

You will immediately begin hearing the voice of the person calling. To respond to the call, wait until the caller is finished speaking. Then press and hold the **PTT** and talk. Release to listen.

Call Alert™

You can initiate a Call Alert from any mode. An alert tone notifies the targeted person that you want to get in touch with them. A Call Alert is placed by selecting the radio ID for the person you want to alert. A radio ID can be selected by: Direct Entry or Memory Scroll.


Sending a Call Alert

- **Direct Entry**


Allows you to use the keypad to input radio IDs. *(Example: Send a Call Alert to Jane. Her radio ID is 12. Jack's radio ID is 1. The last Private Conversation or Call Alert was with Mark.)*

1. Press .



2. Press .



3. Press .



4. Press PTT.



An alert tone and this message are presented when the Call Alert successfully reaches the targeted unit.

If the targeted unit is out-of-range, busy, or turned off, an alert tone is heard and an error message is displayed. Refer to the “Safety and General Information” section for a description of all error messages.

- **Memory Scroll**

To send a Call Alert using Memory Scroll, use the same procedure described in the “Private Conversation” section.

The list of radio IDs and names used to initiate a Call Alert is the same list that is used in Private Conversation.

Receiving a Call Alert

Four recurring alert tones signal that you have received a Call Alert. In addition, the following message appears on the display, identifying the person attempting to contact you. (Example: *Sheila is alerting you.*)



- To talk to the person:

Press **PTT**.



You will be taken to Private mode when responding to a Call Alert.

- If you are unable to respond to the Call Alert, press **Clr** to clear the display and silence the recurring tones.
- To silence the recurring alert tones only, press any key (except **PTT**, **Gp**, **Prvt**, **Alert**, **Slk**, **Emer** or **Menu**).

Note: If not cleared, all incoming calls will be blocked.

Emergency Group Call

An Emergency Group Call allows a user to have priority access to his talkgroup members and provide them visual and audible indications of an emergency condition. The Emergency call can be placed from any mode.

Placing an Emergency Group Call

1. Press and hold the Emergency Key.


The radio will emit an emergency start tone to indicate that you have successfully requested an emergency call.



Placing an emergency call will exit any operation you are in.

The emergency call will be sent on either a pre-programmed emergency talkgroup or the last selected talkgroup.



To end an emergency call, press and hold the  for 3 seconds. The radio will return to the last selected talkgroup.

Emergency will flash until the system acknowledges the emergency condition. A tone will be generated to provide indication that the channel is ready to begin the call.

You can place an Emergency Group Call to either the currently selected talkgroup or to the pre-programmed emergency talkgroup, depending on how your radio is programmed.

- **Currently Selected Talkgroup**

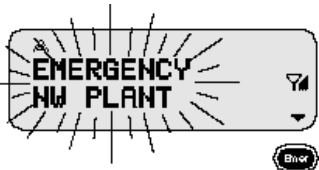
The currently selected talkgroup will be selected when you press the Emergency key.



If you place an emergency call to the currently selected talkgroup, the second line will stay the same and not flash.

- **Pre-Programmed Emergency Talkgroup**

Your organization may have programmed your radio to automatically go to a specific Emergency Talkgroup when you press the Emergency key.



The second line will flash to indicate the unit is affiliating with the pre-programmed emergency talkgroup.

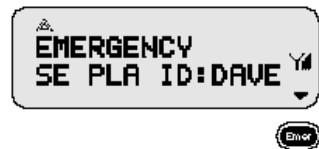
2. Press the **PTT** to talk.

The initiator cannot exit the emergency call without first cancelling the emergency call.



The initiator of the Emergency Call is blocked from receiving any Private Call, Call Alerts, and Status Messages for the duration of the emergency call.

The display will show the alias or ID of the talk group member who is transmitting.



The second line will show the talkgroup along with the ID (alias) of the person currently transmitting.

Cancelling an Emergency Group Call by Initiator

Press and hold the Emergency key until the unit generates an Emergency Call Cancel tone. This tone indicates the cancellation has occurred. The display will return to the non-emergency Group Call state.



Other Methods for Cancelling an Emergency Group Call

An emergency call will be cancelled if no talkgroup activity occurs for 30 seconds.

The dispatcher, or any other person provisioned with this feature, can also cancel the emergency call.

Receiving an Emergency Group Call

When an emergency call is initiated, other members of the talkgroup will be notified of an emergency condition.

The receiving unit will hear an Emergency Receive tone, and the receiver's display will change to indicate the condition.



The first line indicates the ID or alias of the person initiating the emergency call.



The display you'll see when you are transmitting.

The second line will show you the talk-group name or number with the ID or name of the person currently transmitting.



Receiver Operations During an Emergency Call

Other members of the Emergency Group Call talkgroup can leave the emergency call and change modes while involved in the call.


While listening to the emergency call, the receiving unit will not receive Call Alert, Status Message, Private Conversation, or other group calls for the duration of the emergency call.

Status Message

Status Message lets you send a pre-defined message to the dispatcher or to another user's ID. Up to 10 pre-defined alphanumeric Status Messages are available such as "AT LUNCH" or "EN ROUTE".

You can also send any numeric Status Message from 1-255. A Status Message can be sent by selecting both the Status Message and target ID (alias) of the person who is to receive the Status Message. You can cut talk time to a minimum by sending Status Messages. You can also leave a Status Message for receivers while they are away from their radios.

Entering the Status Message Mode

To enter the Status Message mode, press the  key.

This is the home screen you see when you enter the Status mode.




The second line shows the Status Message (alpha or numeric) of the last successfully sent status.

Selecting a Status Message


Once you are in Status Mode, you can select a Status Message by Direct Entry or by using Memory Scroll.

- **Direct Entry**

Direct Entry allows you to use the keypad to select the message you want to send. Enter any number from 1-255 to select a Status Message. The number can correspond to one of 10 pre-programmed alphanumeric status messages or any other numeric Status Message within the range of 1-255.

1. Press .



2. Press .



Pressing the **PTT** at this time will send the message to the last radio ID to which you sent a successful Status Message.

3. Press PTT.



- **Selecting a Status Message Using Memory Scroll**

Once you are in Status Mode, you can select Status Messages by scrolling through the 10 named (aliased) Status Messages you have programmed by using the **◀▶** keys.

1. Press **▶** until you find the message you want. In this case we scrolled to the Status Message, "At Lunch."



2. Press **SK**.



Pressing the **PTT** at this time will send the message to the last radio ID to which you sent a successful Status Message.

3. Press **PTT**.



Selecting a Target

Once you have selected a Status Message, you can select a target by Direct Entry or Memory Scroll.

- **Direct Entry**

1. Press **Scr** to move to the target selection.



The second line reflects the ID or alias to whom you last sent a successful Status Message.

2. Enter the numeric radio ID of the person to whom you are sending the message.



The ID list is the same as Call Alert and Private Conversation List.

The **←** key acts as a backspace.

Clr returns to show you the last selected radio ID.

3. Press **Scr**.



4. Press **PTT** to send the message to the selected ID.



- **Memory Scroll**

You can select a target by scrolling through radio IDs or aliases by using the ◀ ▶ keys.

1. Press the ▶ key until you find the person to whom you want to send the message.



2. Press **Send**.



3. Press **PTT**.
The display shows the message that has been sent.



Sending a Status Message

- **Successful**

After selecting both a Status Message and desired target ID, press the **PTT** to send the message.

Four high pitched tones will be heard to indicate transmission.



The display will update to indicate the message was successfully delivered to the target radio.



Two high-pitched tones will be heard.

The unit will return to the status screen (after 3 seconds).



- **Unsuccessful**

If the targeted unit is busy, out-of-range or turned off, an alert tone is heard and an error message is displayed.

Target Not Available is an example of an error message that you could receive. Target Not Available indicates that the unit you are sending the message to is either busy, out of range, or turned off.



Refer to the “Safety and General Information” section for a description of other error messages.

The unit will return to the status screen (after 3 seconds).



Exiting the Status Mode

Press the **Grp**, **Prvt**, or **Alert** key to exit the Status Message screen.

Receiving a Status Message

The unit will receive a message along with alert tones.

To silence the recurring alert tones only, press any key (except PTT, **Grp**, **Prvt**, **Alert**, **Sk**, **Emer**, or **Menu**).

Note: If not cleared, all incoming calls will be blocked.



Line 1 shows the ID (Alias) of the sending unit.

Line 2 shows the message.


Clr clears the Status Message and returns you to the mode you were in prior to receiving the Status Message.

Pressing the **Grp**, **Prvt**, **Alert**, **Sk**, or **Menu** keys will also clear the Status Message.

Horn and Lights

Turning on the Horn and Lights feature causes your vehicle's horn and lights to come on and flash each time you receive a Private Call, Status Message, or Call Alert.


Note: This feature requires additional hardware.

Press  to turn this feature on or off. The bell icon indicates that Horn and Lights is on.











Feature Menu


The Feature Menu allows you to review, select, and program additional radio features. The table below provides a description of the features available in the Feature Menu.





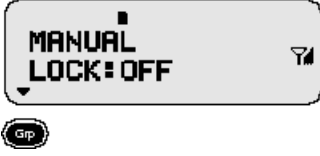


The Feature Menu can be accessed using the  key at any time without interrupting radio operation.





-  Key







The Feature Menu can be accessed by pressing the  key on the front right of the radio. You can then select features by scrolling using the   keys. To exit the Feature Menu, press     or .



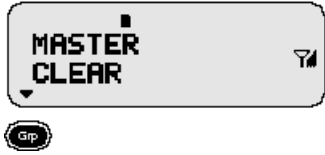

Feature Menu Table


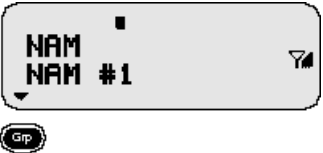
Feature Name and Description	Example Display
<p>Own Radio ID Allows you to program, edit, and review your personal Radio ID.</p>	

Feature Name and Description	Example Display
<p>Display Dimmer Allows you to set the brightness of the radio display (bright for day, dim for night). There are four settings. Press  to select. Then press   to change setting.</p>	
<p>Manual Lock Locking your unit prevents unauthorized use and disables incoming and outgoing calls. Manual lock allows you to selectively lock your unit at any time.</p>	
<p>Automatic Lock This feature automatically locks your unit each time the unit is turned on.</p>	
<p>Theft Alarm When Theft Alarm is ON, you have 30 seconds to enter your Passcode. After that time, the vehicle's horn and lights come on and start flashing.</p> <p>This feature requires additional hardware.</p>	

Feature Name and Description	Example Display
<p>Radio ID List Programming Allows you to add, edit, and erase the pre-programmed list of radio IDs for making Private Conversations and sending Call Alerts and Status Messages. Each radio ID can be up to five digits long and can be given an 11-character name (alias).</p>	
<p>Talkgroup List Programming Allows you to add, edit, and erase the pre-programmed list of talkgroup IDs for making Group Calls. Each talkgroup ID can be up to three digits long and can be given an 11-character name (alias).</p>	
<p>Service Area List Programming Allows you to add, edit, and erase the pre-programmed list of service areas for making Group Calls. Each service area can be up to two digits long and can be given an 11-character name (alias).</p>	
<p>Status List Programming Allows you to add, edit, and erase the pre-programmed list of status messages for sending Status Messages. Each Status Message can be up to three digits long and can be given an 11-character name (alias).</p>	

Feature Name and Description	Example Display
<p>Speaker Volume Volume is displayed as a bar graph. Seven bars indicate maximum volume.</p> <p>Use the On/Off Power/Volume knob on the front of the radio to adjust the volume.</p> <p>Note: If the Speaker Volume Set Tone is set to OFF, you will not hear the speaker volume adjustment tones.</p>	
<p>Keypad Volume Allows you to adjust the keypad volume. Volume is displayed as a bar graph. Seven bars indicate maximum volume. You can silence the keypad by decreasing the volume until “SILENT” appears on the display.</p> <p>Keypad Volume is listed under the MENU key. Press  when you get to the Keypad display to use the   keys to adjust the volume.</p>	
<p>Speaker Volume Set Tone Disabling this feature (OFF) will prevent speaker volume adjustment tones from being heard. When this feature is enabled (ON), a tone will be heard indicating the volume level of the speaker.</p>	

Feature Name and Description	Example Display
<p>Changing Your Passcode</p> <p>The passcode is initially set to 0000. This feature allows you to personalize your passcode to any four digits you select. Passcode entry is required to unlock the unit, as well as to access other security features.</p>	
<p>Feature Reset</p> <p>Allows you to conveniently reset certain features to their factory settings. Specifically, Reset returns all volumes, Auto-Lock, Theft Alarm, Horns and Lights, and Display Dimmer to their factory levels.</p>	
<p>Master Clear</p> <p>Master Clear performs all functions of the Feature Reset. It also returns the Radio ID list, Talkgroup list, Status list, Service Area list, and Passcode to their factory settings.</p> <div data-bbox="427 1157 816 1314" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">CAUTION</p> <p>Master Clear erases all entries stored in your Radio ID, Talkgroup, Status and Service Area lists. Once confirmed, this procedure cannot be cancelled or reversed.</p> </div>	
<p>Master Reset</p> <p>Resets your radio's identification number and Service Key to their initial settings.</p> <div data-bbox="427 1486 816 1644" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">CAUTION</p> <p>Master Reset disables service of your unit until a new identification number and Service Key are generated. Once confirmed, this procedure cannot be cancelled or reversed.</p> </div>	

Feature Name and Description	Example Display
<p>Changing the Service Key Designed to reduce fraud, the Service Key is a 32-character authentication code that, once generated, must be given to your service provider.</p> <div data-bbox="423 632 813 789" style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center;">CAUTION</p> <p>Changing the Service Key disables service of your unit until you notify the service provider of the new Service Key. Once confirmed, this procedure cannot be cancelled or reversed.</p> </div>	 <p>The example display shows a grey rounded rectangle with the text "CHANGE SERVICE KEY" in bold black letters. A small square icon is in the top right corner, and a signal strength icon is in the bottom right corner. Below the rectangle is a small circular icon with "Gp" inside.</p>
<p>NAM Selection Number Assignment Module (NAM) allows you to have local service in different cities. NAM also allows you to register with different service providers in the same city.</p>	 <p>The example display shows a grey rounded rectangle with the text "NAM" on the first line and "NAM #1" on the second line in bold black letters. A small square icon is in the top right corner, and a signal strength icon is in the bottom right corner. Below the rectangle is a small circular icon with "Gp" inside.</p>

Feature Menu Examples

- List Programming

Adding an Entry (Example: Add AI to your Radio ID list.)

1. Press **Menu**.



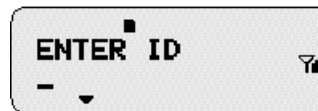
2. Press **▶** until you get to the Radio ID List Program.



3. Press **Sel**.



4. Press **Sel**.



5. Press **1** to assign Radio ID 1.



You can program your Area, Group, Radio ID, and Status Message List.

6. Press **Sol**.



To select a letter:
1st press = 1st letter;
2nd press = 2nd letter;
3rd press = 3rd letter.
4th press = number

7. Press **2ABC**.



8. Press **▷**.



To erase a character
press **◁**
To clear all characters,
press and hold **◁**

9. Press **5100** three times.



10. Press **Sol** to add AL to your Private Radio List.




Wait three seconds



11. Press **Clr** to exit List Programming.



12. Press  to exit Menu Mode or any mode key.




- **Editing an Entry**

(Example: Change the Radio ID #1 from Al to Joe.)

1. Press .




2. Press  until you get to the Radio ID List Program display.



3. Press .



4. Press  to go to the Edit Screen.



5. Press .



6. Press **Sol**.



At this point, the name can be changed using the procedure described in "Adding an Entry" above.

7. Press **Sol**.



8. Enter Joe and press **Sol**.



A confirmation message is displayed for a moment.

Wait 3 seconds.



9. Press **Clr** when you have finished the editing.



- Erasing an Entry

(Example: Erase Joe, the first entry in your Radio ID List.)

1. Press **Menu**.



2. Press **Right Arrow** until you get to the Radio ID List Program Display.



3. Press **Sel**.



4. Press **Left Arrow** once or **Right Arrow** twice.



5. Press **Sel**.



6. Press **Sel**.



Press **Clr** to cancel the operation.

7. Press **SQL**.

Joe is erased and the display returns to the Erase Entry display.



8. Press **Clr** when you have finished the erase function.

9. Press **Menu** to exit Feature Menu Mode.

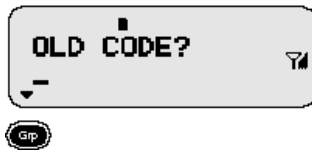


- Changing Passcode

1. Press **Menu** and use the **Right** key to get to the Change Passcode display.

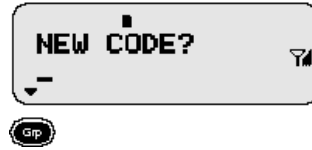


2. Press **Set**.



If you are setting the passcode for the first time, the old code is 0000.

3. Enter the old code.

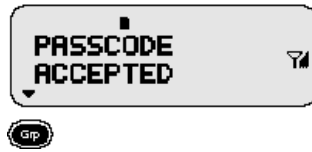


Your Passcode must be four digits long. It will appear as "****" on the display.

4. Enter the new code.



5. Re-enter the new code.



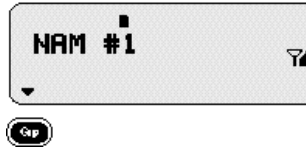
A confirmation message is displayed.

Wait 3 seconds.



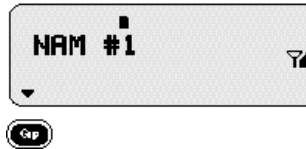
• **NAM Selection** (Example: Select your second NAM.)

1. Press **Menu** and use the **▶** key to get to the NAM display.

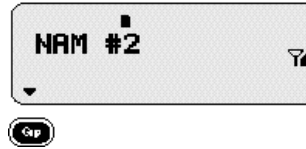


The currently selected NAM is displayed.

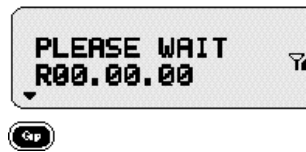
2. Press **Sol**.



3. Press **▶**.



4. Press **Sol**.



At this point, your unit begins a system registration routine onto the NAM #2 system.

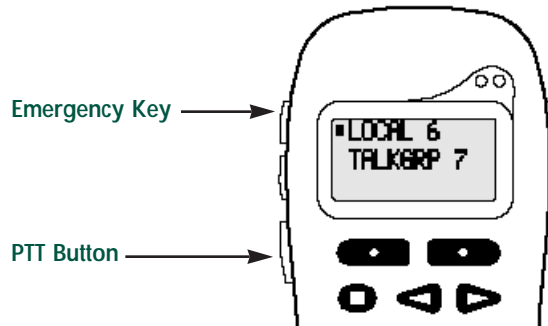
Handset Operation

Adding a Handset to your mobile will give you increased functionality such as Phone Operations and Message Mail. See the Handset Manual (LM2000) to learn all the basic features of the Handset. When the handset is used with the Advanced Feature Mobile, all functionality is routed to the handset. This section explains how the handset works when it ships from the factory. Many features are programmable by your organization. Be sure to refer to your organization's instructions to find out the differences.

Emergency Group Call

Emergency Group Call - Provides priority access to talkgroup members, and provides visible and audible indications of an emergency condition. The emergency call will take place on a pre-programmed emergency talkgroup or the last selected talkgroup (depending on how the radio is programmed).

Note: The Emergency Key is still operable from the mobile keypad. The handset Emergency Key is the upper most key on the PTT side.



Location of Emergency Key on Handset

Status Message

Status Message - Allows you to send a Status Message to the dispatcher, or to the target ID of your choice. Status Messages like "AT LUNCH" and "EN ROUTE" can be programmed and sent. Up to 10 named (aliased) Status Messages are available per unit.

PTT - ID

The PTT - ID displays the ID or alias of the user currently transmitting in a group call.



Emergency Group Call

An Emergency Group Call allows a user to have priority access to his talkgroup members and provide them visual and audible indications of an emergency condition. The Emergency call can be placed from any mode (private, group, phone).

Placing an Emergency Group Call

1. Press and hold the Emergency Key.

The radio will emit an emergency start tone to indicate that you have successfully requested an emergency call. A sample display is shown here:



Placing an emergency call will exit any operation you are in.

To end an emergency call, press and hold the Emergency Key for 3 seconds. The radio will return to the last selected talkgroup.

The emergency call will be sent on either a pre-programmed emergency talkgroup or the last selected talkgroup.

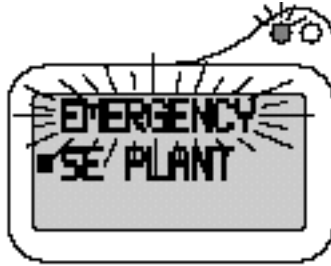


Emergency will flash until the system acknowledges the emergency condition. A tone will be generated to provide indication that the channel is ready to begin the call.

You can place an Emergency Group Call to either the currently selected talkgroup or to the pre-programmed emergency talkgroup.

- **Currently Selected Talkgroup**

The currently selected talkgroup will be selected when you press the Emergency key.



If you place an emergency call to the currently selected talkgroup, the second line will stay the same and not flash.

- **Pre-Programmed Emergency Talkgroup**

Your organization may have programmed your radio to automatically go to a specific Emergency Talkgroup when you press the Emergency key.



The second line will flash to indicate the unit is affiliating with the pre-programmed emergency talkgroup.

2. Press the **PTT** to talk.

The initiator cannot exit the emergency call without first cancelling the emergency call.



The initiator of the Emergency Call is blocked from receiving any Phone, Private, Call Alerts, Message Mail, and Status Messages for the duration of the emergency call.

The third line will show the alias or ID of the talk group member who is transmitting.



Cancelling an Emergency Group Call by Initiator

Press the Emergency key until the unit generates an Emergency Call Cancel tone. This tone indicates the cancellation has occurred. The display will return to the non-emergency state.



Other Methods for Cancelling an Emergency Group Call

An emergency call will be cancelled if no talkgroup activity occurs for 30 seconds.

The dispatcher, or any other person provisioned with this feature, can also cancel the emergency call.

Receiving an Emergency Group Call

When an emergency call is initiated, other members of the talkgroup will be notified of an emergency condition.

The receiving unit will hear an Emergency Receive tone, and the receiver's display will change to indicate the condition.



The first line indicates the ID or alias of the person initiating the emergency call.

The second line will show you the talkgroup name or number.

The third line shows the ID or alias of the person who is currently speaking.



NOTE: When the receiving unit initiates a transmission, the third line will be blank.



Receiver Operations During an Emergency Call

Other members of the Emergency Group Call talkgroup can leave the emergency call and change modes (phone, group, private) while involved in the call.

While listening to the emergency call, the receiving unit will not receive phone, Call Alert, Message Mail, Status Message, Private Conversation, or other group calls for the duration of the emergency call.

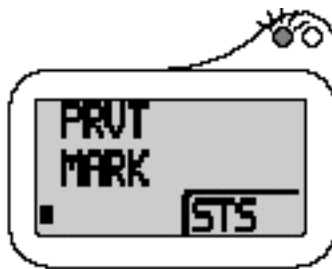
Status Message

Status Message lets you send a pre-defined message to the dispatcher or to another user's ID. Up to 10 pre-defined alphanumeric Status Messages are available such as "AT LUNCH" or "EN ROUTE".

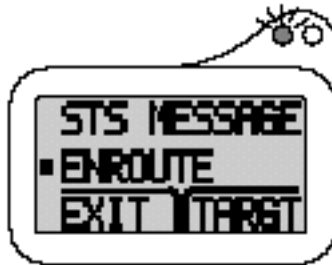
You can also send any numeric Status Message from 1-255. A Status Message can be sent by selecting both the Status Message and target ID (alias) of the person who is to receive the Status Message. You can cut talk time to a minimum by sending Status Messages. You can also leave a Status Message for receivers while they are away from their radios.

Entering the Status Message Mode

To enter the Status Message mode, you must press the status option key. This key is accessible from the Group and Private modes.



This is the default screen you see when you enter the Status mode.



The second line shows the Status Message (alpha or numeric) of the last successfully sent status.

EXIT returns you back to either Group or Private mode. TARGT takes you to the Target ID selection screen.

Selecting a Status Message

You can select a Status Message by Direct Entry or by using Memory Scroll.

- **Direct Entry**

Direct Entry allows you to use the keypad to select the message you want to send. Enter any number from 1-255 to select a Status Message. The number can correspond to one of 10 pre-programmed alphanumeric status messages or any other numeric Status Message within the range of 1-255.

1. Press 2.



2. Press OK.



Pressing the PTT at this time will send the message to the last radio ID to which you sent a successful Status Message.

3. Press TARGT.



EXIT will return you to the Status Message screen.

- **Selecting a Status Message Using Memory Scroll**
You can select Status Messages by scrolling through the 10 named (aliased) Status Messages you have programmed by using the < > keys.

1. Press > until you find the message you want. In this case we scrolled to the Status Message, "At Lunch."



2. Press OK.



3. Press TARGT to select a target for this message.



Selecting a Target

You can select a target by Direct Entry, Memory Scroll, or Alpha Search.



The ID list is the same as Call Alert and Private Conversation List.

The second line reflects the ID or alias to whom you last sent a successful Status Message.

- **Direct Entry**

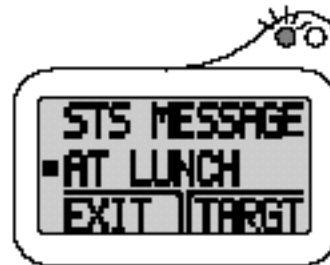
1. Enter the numeric radio ID of the person to whom you are sending the message.



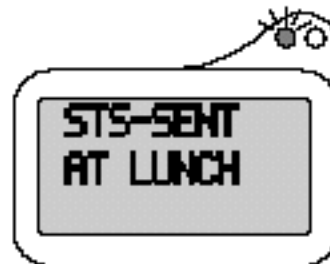
The < key acts as a backspace.

CANCL returns to show you the last selected radio ID.

2. Press OK.



3. Press **PTT** to send the message to the selected ID.



- **Memory Scroll**

You can select a target by scrolling through radio IDs or aliases by using the < > keys.

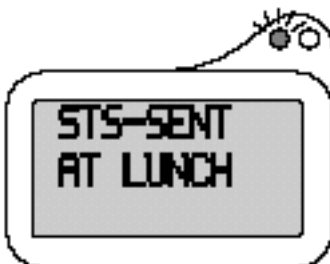
1. Press the > key until you find the person to whom you want to send the message.



2. Press OK.



3. Press PTT.
The display shows the message that has been sent.

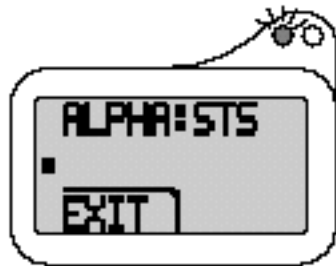


- **Alpha Search**

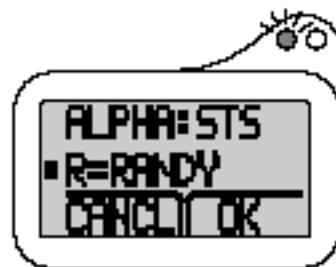
You can select a radio ID by entering the first letter of the name (alias). If no name is stored under a letter, the unit will automatically search forward, alphabetically, until the next name is found.



1. Press the ALPHA key.



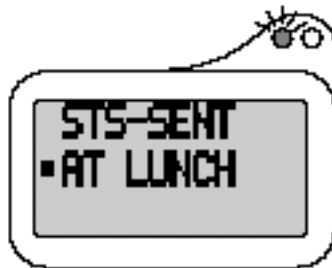
2. Press a numeric key. ie: Press **7** twice to view the names (aliases) that begin with the letter R.



3. Use either the < > keys to scroll to the name (alias) who is to receive the Status Message.



4. Press PTT.

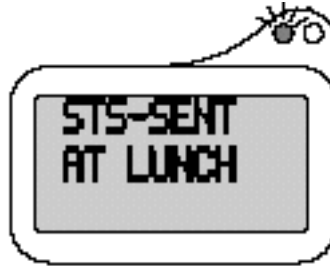


Sending a Status Message

- **Successful**

After selecting both a Status Message and desired target ID, press the **PTT** to send the message.

Four high pitched tones will be heard to indicate transmission.

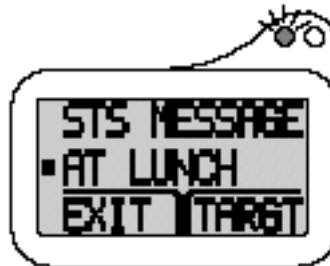


The display will update to indicate the message was successfully delivered to the target radio.



Two high-pitched tones will be heard.

The unit will return to the status screen (after 3 seconds).



- **Unsuccessful**

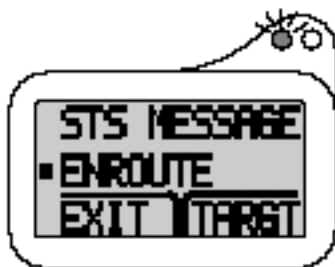
If the targeted unit is busy, out-of-range or turned off, an alert tone is heard and an error message is displayed.

Target Not Available is an example of an error message that you could receive. Target Not Available indicates that the unit you are sending the message to is either busy, out of range, or turned off.



Refer to the “Safety and General Information” section of this manual for a description of other error messages.

The unit will return to the status screen (after 3 seconds).



Exiting the Status Mode

Press the PHONE, GROUP, or PRVT key to exit the Status Message screen. Pressing the EXIT option key from the Status Message screen will also allow you to exit the status mode.

Receiving a Status Message



The unit will receive a message along with alert tones.

Note: All calls are blocked until the message is cleared.

To silence the recurring alert tones only, press any key (except PHONE, GROUP, PRVT or the CLEAR option key).



Line 1 shows the ID/Alias of the sending unit.

Line 2 shows the message.

CLEAR clears the Status Message and returns you to the mode you were in prior to receiving the Status Message.

Pressing the PHONE, GROUP or PRVT keys will also clear the Status Message.

ID List Programming

Feature menu #25 allows you to program 10 status messages, each up to 11 characters long.



For further information on ID List Programming and an example of Phone List Programming, refer to the List Programming section of the Motorola Digital Communicator Handset User's Guide.

Safety and General Information

Features

Benefits

Automatic Scroll	Allows you to quickly scroll through your lists.
Call Alert	Ensures that you never miss important radio calls. This feature also provides radio call screening and easy call-back.
Digital Technology	Assures you of crystal clear sound, less static, fewer dropped calls, and improved security.
Direct Entry	Allows you to quickly enter radio IDs using the keypad.
Group Call	A convenient way to communicate with a group of individuals simultaneously.
Emergency Call	A fast way to contact your team in an emergency.
Status Message	An easy way to reduce radio talktime or leave messages for others on the network when they are away from their radio.
Horn and Lights	Ensures that you never miss important private radio calls or Call Alerts while you are away from your vehicle.
List Programming	Allows you to personalize your phone and radio lists.
Lock Features	Prevents unauthorized use of your mobile unit.
Memory Scroll	A convenient way of searching through lists for a desired number or name.
Passcode	Provides added security to your mobile unit.
Private Conversation	An easy-to-operate person-to-person radio call.
Radio Operation	A cost-effective means of communicating with other radio users.
Service Area Selection	Allows you to direct Group Calls to specific geographic sites.
Talkgroup Selection	Allows you to direct Group Calls to a specific group of individuals.

IMPORTANT GENERAL SAFETY INFORMATION

READ THIS INFORMATION BEFORE USING YOUR iDEN ADVANCED FEATURE MOBILE.

- **Efficient Mobile Operation**

For the safe and efficient operation of your mobile, observe these guidelines. Your mobile is a radio transmitter and receiver. When it is ON, it receives, and also sends out, radio frequency (RF) energy. The mobile operates in the frequency range of 806MHz to 866MHz, and employs digital modulation techniques. When you use your mobile, the system handling your call controls the power level at which your mobile transmits. The power level can range from 0.01 of a watt to 3.0 watts.

Do not operate your mobile when a person is within two feet (0.6 meters) of the antenna unless that person is shielded from the antenna by a metal surface such as the roof of the car. Otherwise you may impair call quality, may cause your mobile to operate at a higher power level than is necessary, and may expose that person to RF energy in excess of the levels established by the updated ANSI Standard.

- **Exposure to Radio Frequency Energy**

In 1991 the Institute of Electrical and Electronics Engineers (IEEE), and in 1992 the American National Standards Institute (ANSI) updated the 1982 ANSI Standard for safety levels with respect to human exposure to RF energy. Over 120 scientists, engineers, and physicians from universities, government health agencies, and industry, after reviewing the available body of research, developed this updated Standard. In March, 1993, the Federal Communications Commission (FCC) proposed the adoption of this updated Standard.

The design of your mobile complies with this updated Standard. If you want to limit RF exposure even further, you may choose to control the duration of your calls and operate your mobile in the most power-efficient manner.

- **Antenna Care and Replacement**

Do not use the mobile with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Use only the supplied or approved antenna. Unauthorized antennas, modifications, or attachments could damage the mobile and may violate FCC regulations.

- **Driving**

Check the laws and regulations on the use of communication devices in the areas where you drive. Always obey them. Also, when using your mobile while driving, please:

- give full attention to driving,
- use hands-free operation, if available, and
- pull off the road and park before making or answering a call if driving conditions so require.

- **Electronic Devices**

Most modern electronic equipment – for example, equipment in hospitals and cars – is shielded from RF energy. However, RF energy from your mobile may affect some electronic equipment.

Consult your physician or the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) to determine if they are adequately shielded from external RF energy. The operation of inadequately shielded medical devices may be adversely affected when a mobile is ON.

Turn your mobile OFF in health care facilities when any regulations posted in the areas instruct you to do so. Always request permission before using your mobile near medical equipment.

RF energy may affect some electronic systems in motor vehicles. Check with your vehicle manufacturer's representative to be sure your mobile will not affect the electronic system of your vehicle.

- **Children**

Do not allow children to play with your mobile. It is not a toy. Children could hurt themselves or others. Children also could damage the mobile, or make calls that increase your service bills.

- **Blasting Areas**

To avoid interfering with blasting operations, turn your unit OFF when in a “blasting area” or in areas posted: “turn off two-way radio.” Construction crews often use remote-control RF devices to set off explosives.

- **Potentially Explosive Atmospheres**

Turn your mobile OFF when in any area with a potentially explosive atmosphere. It is rare, but your mobile or its accessories could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include: fueling areas such as gas stations, below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles, such as grain, dust, or metal powders.

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle which contains your mobile or accessories.

Vehicles powered by liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association. One Batterymarch Park, Quincy, MA 02269, Attn: Publications Sales Division.

- **For Vehicles Equipped with Air Bags**

An air bag inflates with great force. DO NOT place objects, including communication equipment, in the area over the air bag or in the air bag deployment area. If the communication equipment is improperly installed and the air bag inflates, this could cause serious injury.

Installation of vehicle communication equipment should be performed by a professional installer/technician qualified in the requirements for such installations. An air bag’s size, shape, and deployment area can vary by vehicle make, model, and front compartment configuration (for example, bench seat vs. bucket seats).

Contact the vehicle manufacturer’s corporate headquarters, if necessary, for specific air bag information for the vehicle make, model, and front compartment configuration involved in your communication equipment installation.

Cleaning Instructions

Clean the external surfaces with a damp cloth, using a mild solution of dish-washing detergent and water. Some household cleaners may contain chemicals which could seriously damage the unit. Avoid the use of any petroleum-based solvent cleaners. Also, avoid applying liquids directly on the mobile unit.

Status Indicator Table

There are two status indicators above the display which visually tell you the different states of your unit. The left is yellow and the right is bicolor red and green. Below is a description of these indicators.

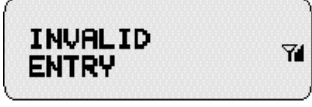





The unit is roaming when operating outside of your "home" system.








Status Indicator	Illuminates While:
Solid Green	Talking/Transmitting
Blinking Green	In Service
Blinking Yellow	Roaming
Solid Red	No Service
Blinking Red	Registering on a Network
Blinking Yellow, Red, Green, Off	In Service with a Weak Signal.

The area within which your unit operates is defined by your service provider. Since this is a radio system, no exact boundaries (as on a map) can be drawn. The red status indicator (No Service) lights solid if you are beyond range of a service area. There may be locations within your area, such as tunnels and underground parking facilities, where the unit may act as if it were beyond range.

Error Message Table

Below is a list of the messages that may be displayed while operating your mobile unit. Before contacting your service provider, note the message and the state at which it appeared.

Error Message	Message Description
 The error message icon for 'INVALID ENTRY' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'INVALID ENTRY' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	The entered number is not valid.
 The error message icon for 'TARGET NOT AVAILABLE' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'TARGET NOT AVAILABLE' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	The targeted unit of your call is either busy, out-of-range, or turned off. Please try again later.
 The error message icon for 'TARGET NOT AUTHORIZED' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'TARGET NOT AUTHORIZED' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	The targeted unit of your call has not purchased this service.
 The error message icon for 'NETWORK TROUBLE' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'NETWORK TROUBLE' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	The network is experiencing difficulty. Please try again later.
 The error message icon for 'SERVICE OUT OF ORDER' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'SERVICE OUT OF ORDER' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	This service is temporarily not available. Please try again later.
 The error message icon for 'TARGET BUSY IN DISPATCH' is a rounded rectangle with a light gray background and a thin black border. It contains the text 'TARGET BUSY IN DISPATCH' in a bold, black, monospace font. A small signal strength icon is located in the bottom right corner of the rectangle.	The targeted unit that you are trying to contact is busy in a private call.

<p>SERVICE RESTRICTED </p>	<p>This service has been restricted by your service provider or it has not been purchased.</p>
<p>SERVICE NOT AVAILABLE </p>	<p>This feature is not available on the current network.</p>
<p>SYSTEM BUSY TRY LATER </p>	<p>The system is experiencing heavy traffic. Please try again later.</p>
<p>SERVICE CONFLICT </p>	<p>This service cannot be enabled because an incompatible service has already been turned on.</p>
<p>PLEASE TRY AGAIN </p>	<p>A general error has occurred.</p>
<p>SELF CHECK ERROR </p>	<p>A fault has been detected with your unit. Should this error recur, note the error code and contact your sales representative.</p>
<p>SELF CHECK FAIL </p>	<p>An operational fault has occurred. Turn your unit off and contact your sales representative immediately.</p>

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