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LM2000/m370

USER'S GUIDE

#### WELCOME

The iDEN Integrated Digital Mobile allows you to place and receive phone calls, make and receive person-to-person or group radio calls, and receive alphanumeric messages.

The large display and soft key driven interface makes it the most user-friendly communications product on the market today.

Before operating your unit, take time to read the Important General Safety Information on page 73.

There are four groups of capabilities explained in this guide:

#### **Radio Operations**

With Radio Operations, you can communicate with a group of individuals (Group Call mode) or privately with a single person (Private Call mode). You can also send a Call Alert<sup>TM</sup> to an individual, indicating that you want to speak with them.

#### **Phone Operations**

With Phone Operations, you can place and receive phone calls. You can place phone calls by dialing the number directly or by using one of the memory-calling features. A number of optional features, such as Call Waiting and Call Forwarding, are also available.

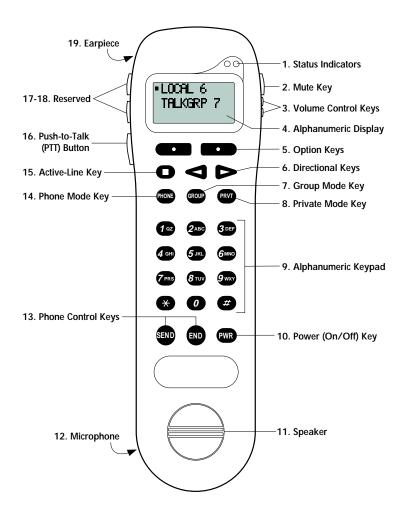
#### Message Mail<sup>TM</sup>

With Message Mail, you can receive and store up to eight alphanumeric messages. You are notified when new messages are received, which can be read at your convenience. A phone number included within a message can be called automatically.

#### **Programming Menu**

A number of convenience features, such as a Signal Strength Indicator, Auto Answer, Phone-Call Timers, and Auto Lock are provided to you in an easy-to-use, self-prompting menu.

# **INTEGRATED MULTI-SERVICE MOBILE**



- 1. Status Indicators—Solid or blinking lights indicate different conditions your unit may be in. (See the Additional Information section for Status Indicator Table.)
- Mute Key—Used to enable and disable the microphone during telephone calls so that the other party cannot hear you. The solid yellow status indicator illuminates when the microphone is muted.
- 3. Volume Control Keys—Used to adjust volume levels of the earpiece, speaker, ringer, keypad, and message notification.
- 4. Alphanumeric Display—A three-line display, providing up to 11 characters per line. The display is backlit for ease of view-
- Option Keys—Used to select the option that appears directly above the key on the third line of the display.
- Directional Keys—Used to perform Memory Scrolling, option scrolling, and editing.
- Group Mode Key—Used for one-to-many radio communica-
- Private Mode Key—Used for one-to-one private radio communication.
- Alphanumeric Keypad—Used for direct entry of radio IDs, service area IDs, talkgroup IDs, phone numbers, or names. All keys on the keypad are backlit for ease of nighttime view-
- 10. Power (On/Off) Key—Used to turn the mobile unit on and
- 11. Speaker—Used for hands-free communication; also produces ringer tones.
- 12. Microphone—Used for speaking during handset communi-
- 13. Phone Control Keys—Used to place (SEND) or terminate ( END )telephone calls.
- 14. Phone Mode Key—Used for telephone communication.
- 15. Active-Line Key—Used to control the Active-Line Indicator ■ ) that appears on the display.
- 16. Push-to-Talk (PTT) Button—Used to transmit voice during Group Calls and Private Calls. Also used to send Call Alerts.
- 17-18. Reserved for future use.
- 19. Earpiece—Used for listening during handset communica-

#### **Display**

The three-line display provides information to operate your mobile unit. There are three different modes your unit can be in:

, , or . Each mode has a "home" or default screen. To help you become familiar with the display operation, shown below is the "home" screen for the Phone mode.



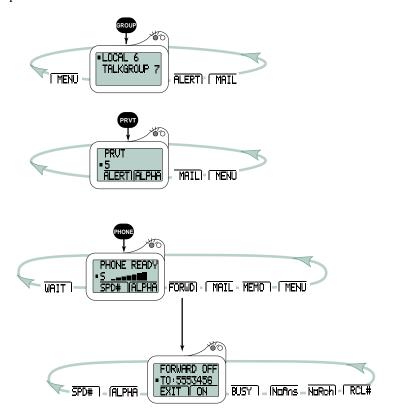
- Line 1 displays the current mode you are in.
- Line 2 displays the Signal Strength and is also the number selection line.
- Line 3 displays the first pair of available options.

The Active-Line Indicator (■) points to the line you are working on. The ■ is always present on the display. The ■ can be moved up and down among the three lines by pressing the Active-Line Key (●). Direct input from the keypad or scrolling using the ◆ keys is available on the line where the ■ appears.

The third line shows the immediately available options. To select an option, press the Option Key ( ) located directly below it. When the is moved to the third line, the next pair of options is automatically presented. At this point, scrolling using the keys will cause any additional options to appear.

# **Overview of Options**

The options presented on the third line of the display allow easy access to all of the advanced features. Below is an overview of the options available from within each mode.



# TURNING ON/OFF YOUR MOBILE UNIT

The key (located at the bottom of the handset keypad) turns the mobile unit both on and off. Press and hold the key to turn the unit on or off. You may turn your mobile on or off at any time.

To prevent unauthorized use, your unit will automatically Lock when turned on using the key (using the ignition switch will not automatically lock your unit). To unlock your unit, enter your passcode. See the "Programming Menu" section for further information on Locks.

Each time the mobile unit 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 unit 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 phone and radio 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.

#### **ADJUSTING VOLUMES**

Press the Volume Control Keys (VA) to adjust:

#### Earpiece Volume

When engaged in a call, with the handset at the ear, pressing the Volume Control Keys adjusts the earpiece volume.

# Speaker Volume

When the handset is in the cradle, pressing the Volume Control Keys adjusts the speaker volume. Speaker volume can also be adjusted while your unit is idle.

You can also adjust the Earpiece, Speaker, and Ringer volumes through the Programming Menu. In addition, the Keypad and Message Notification volumes can be set. Refer to the "Programming Menu" section for instructions on adjusting these volumes.

#### Ringer Volume

Pressing the Volume Control Keys while the phone is ringing adjusts the ringer volume.

#### **Escalert**

Your unit is equipped with the Escalert feature. Escalert ensures that alert tones are initially produced at non-intrusive levels. This feature reduces the initial volume of alert tones and automatically increases the volume to the level you have set.

#### **Microphone Mute**

This feature allows you to disable the microphone during phone calls, preventing the other party from hearing you. Microphone Mute also allows you to silence the keypad tones or disable sending the Dual-Tone Multi-Frequency (DTMF) tones when entering numbers during a phone call. After ending your current phone call, the entered number can be easily dialed by pressing . To mute the microphone, press the Mute Key ( M ) located on the side of your unit. A solid yellow status indicator lights when the microphone is muted.

#### **OPERATING YOUR MOBILE UNIT**

You can operate your unit in two ways: Hands-free and handset operation. Hands-free allows you to safely operate your mobile unit while driving. Handset operation allows you to privately make and receive calls with the handset at your ear. Hands-free and handset operation can be used when making phone calls.

#### **Radio Calls**

To make a radio call, after selecting the appropriate ID, lift the handset to your ear and press the PTT to talk. Wait for the chirp to begin speaking. Release the PTT to listen.

To respond to a radio call, lift the handset to your ear and press the PTT to talk. Wait for the chirp to begin speaking. Release the PTT to listen.

To use the Hands-Free upgrade, you must engage in a Private or Group Call by pressing the PTT and waiting for the chirp to begin speaking. You can then release the PTT and your phone will continue transmitting until you stop speaking.

#### **Phone Calls**

To place a hands-free phone call, select a number and press while the handset remains in the cradle. Direct your conversation to the visor microphone. For handset operation, lift the handset to your ear after selecting a phone number and pressing .

To answer a phone call handsfree, press while the handset remains in the cradle. Direct your conversation to the visor microphone. For handset operation, lift the handset to your ear and begin talking.

Lifting the handset from the cradle automatically answers your call. You must press to terminate a phone call using hands-free and handset operation.



#### 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 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 (highpitched) 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.

# roup Call

#### **Service Area Selection**

When making outgoing Group Calls, you may choose from three different service area selections: Local Area, Targeted Area, and Wide Area. 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 "Programming Menu" section for programming information.)

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.

#### Local Area

A Local-Area Group Call allows you to communicate with talk-group 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.)

1. Press GROUP.



Local Area is at the beginning of your service area list. With the ■ appearing on the top line of the display, use the 
to scroll to "LOCAL."

2. Press PTT.



Pressing PTT allows you to talk with "TALKGRP 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. 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 GROUP.



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

2. Press 102.



Service area ID #1 has been programmed with a name, Centreville.

3. Press 2ABC.



4. Press PTT or  $\bigcap K$ .



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

# Memory Scrol I

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 GROUP.



2. Press > twice.



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

3. Press PTT or OK.

12



Pressing PTT allows you to talk with the "TALKGRP 7" members currently in the "MIDWAY" service area.

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

iroup 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 GROUP.



When "LOCAL" appears on the display, press once to locate Wide Area.

2. Press ◀.



"WIDE AREA" is at the end of your service area list. With the ■ appearing on the top line of the display, use your **d b** to scroll to "WIDE AREA."

3. Press PTT or OK.



Pressing PTT allows you to talk with your dispatcher and the "TALKGRP 7" members in all service areas. Pressing confirms your Wide Area selection without initiating a Group Call.

# roup 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 "Programming 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. "PLUMBERS" is talkgroup 1.)

1. Press GROUP.



Talkgroup Selection is independent of Service Area Selection.

2. Press .



3. Press 12.



To erase a digit, press

To clear all digits,
press and hold To
return to your previously
selected talkgroup, press
CANCL

4. Press gruy.



#### Group Call

5. Press PTT or OK.



To transmit, press PTT;
to listen only, press TK
The word "TALKGRP" appears
before the talkgroup ID unless a
name has been programmed.

# Memory Scrol I

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 GROUP.



2. Press .



3. Press .



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

4. Press PTT or OK.



To transmit, press PTT; to listen only, press

#### SERVICE AREA RESTRICTION

With the optional feature of Service Area Restriction, you will see a "GROUP SVC RESTRICTED" or "PRVT SVC RESTRICTED" message on the display of your mobile unit in either Group or Private mode when you travel outside an authorized service area. Phone mode will display "PHONE ONLY" and will be available even if you are outside an authorized service area.

#### PTT - ID

Once enabled, PTT-ID appears atuomatically on the display of your phone. No additional training or accessories are required.

PTT-ID is an optional feature which may be offered by your service provider. When enabled, PTT-ID permits you to view the radio ID or name of the talkgroup member (if the radio ID has been aliased in your programmed list) speaking in a Group Call. Once enabled, PTT-ID appears automatically on the display. No additional training or accessories are required.

A Private Call is a radio call between two individuals. No other radios can hear the conversation. A Private Call 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 "Programming Menu" section for programming information.) A radio ID can be selected by: Direct Entry, Memory Scroll, or Alpha Search.

#### Making a Private Call

# Direct Entry

Allows you to use the keypad to input radio IDs.

(Example: Make a Private Call to Jane. Her radio ID is 12. Jack's radio ID is 1. The last Private Call or Call Alert was with radio ID 5.)

1. Press PRVI.

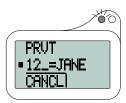


When you enter the Prot mode, the last sent or received radio ID or name appears.

2. Press 12.



3. Press 2 ...





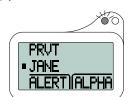
Upon pressing PTT, you will hear an alert tone.
Refer to the "Group Call" section for a description of these tones.

# Memory Scrol I

Allows you to use the keys to scroll through memory for radio IDs. When programmed, names appear in place of radio IDs.

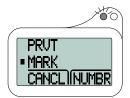
(Example: Call Mark who is the 13th entry in your radio ID list. Jane is 12th.)

1. Press PRVI.



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

2. Press .



Select the NUMBR option to view the radio ID associated with "MARK."

3. Press PTT.



#### Private Call

# Al pha Search

Alpha Search allows you to select a radio ID by entering the first letter of the name (alias) associated with it. If no name is stored under a letter, the unit automatically searches forward, alphabetically, until the next name is found.

(Example: Call Rob from your radio ID list. The Rey is for names beginning with P, R, and S.)

1. Press PRVT.



2. Press ALPHA.



3. Press 7 twice.



4. Press .



To select a letter: 1st press = 1st letter;

2nd press = 2nd letter; $3rd\ press = 3rd\ letter.$ 

If several names in the list begin with the same letter, use the \(\rightarrow\) to view other names.

Select the NUMBER option to see the radio ID associated with the displayed name.



### **Receiving a Private Call**

You may receive a Private Call from within any mode as long as your unit is idle (not active in any other call). Two alert tones signal that you have received a Private Call. In addition, the following message appears on the display, indicating the person calling

(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, press and hold the PTT, then release to listen.

> When idle in radio Group or Private modes (not talking or listening), you are able to receive incoming phone calls or Message Mail notifications. When talking or listening, however, phone calls and Message Mail notifiactions are not received.

You can initiate a Call Alert from either or 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, Memory Scroll, or Alpha Search.

### **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 Call or Call Alert was with Mark.)

1. Press PRVT.



Call Alert can also be accessed by pressing GROUP and moving the **I** to line 3.

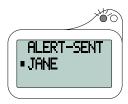
2. Press FLERTI.



3. Press 12.



5. Press PTT.



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



Memory Scroll and Alpha Search

To send a Call Alert using the Memory Scroll or Alpha Search, use the same procedure described in the "Private Call" section.

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

Private Call

#### Private Call

# **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.)



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.

To talk to the person:



You are always in Prvt mode when responding to a Call Alert.

Press PTT.

- If you are unable to respond to the Call Alert, press CLEAR to clear the display and silence the recurring tones.
- To silence the recurring alert tones only, press any key (except PTT).

#### Private Call

#### **CALL ALERT STACKING**

Call Alert Stacking is an optional feature that allows you to save up to 8 Call Alerts in a stack.

# Receiving a Call Alert with Stacking

With Call Alert Stacking, you have the option to Clear a Call Alert or to save the Call Alert to the Queue for later recall.

To Clear a Call Alert, press CLEAR .

To place the Call Alert into the Queue, press QUEUE. Pressing a Mode key (PHONE, GROUP, PRVT) will also stack the Call Alert.

If you receive multiple Call Alerts, the last received Call Alert will be displayed and the remaining Call Alerts will be stacked at the beginning of the queue.

#### Responding to a Call Alert in the Stack

You can respond to the Call Alerts in any order. To select a Call Alert for response:

- 1. Press QUEUE under "Queue".
- 2. Press o or to scroll to the Call Alert to which you wish to respond.
- 3. Press the PTT to respond to the Call Alert. After responding to the Alert, it is removed from the Stack.

# PHONE OPERATIONS

Phone mode allows you to place and receive phone calls. This mode also provides additional phone features, such as: Call Waiting, Call Forwarding, Call Hold, and Memo

You can select phone numbers by: Direct Dial, Speed Dial, Memory Scroll, or Alpha Search.

When idle in phone mode, you are able to receive incoming radio calls (Group Calls, Private Calls, and Call Alerts). During a phone conversation, no radio calls are received. Message Mail notifications will still occur during a phone conversation.

# **Placing a Phone Call**

#### Direct Dial

Allows you to use the keypad to enter phone numbers.

(Example: Call 555-5343.)

1. Press PHONE.



2. Press 5<sup>JKL</sup>.



To erase a digit, press the **1**. To clear all digits, press and hold **⋖** or press THNCL.

3. Enter the remaining numbers.





5. Press END.



Using either hands-free or handset operation, you must press END to terminate a phone call.

# Speed Dial

Speed dialing allows you to select a stored number by entering its memory location.

(Example: Call Tom whose phone number is stored in speed-dial location 9.)

1. Press PHONE.



Press SPD# ].





Select the NUMBR option to see the phone number associated with Tom.

4. Press SEND.



# Memory Scroll

Allows you to use the **\leftrightarrow** keys to scroll through memory for phone numbers. When programmed, names appear in place of phone numbers.

(Example: Select Sam from your phone list. Sam is stored in speed-dial location 2.)

1. Press PHONE.



2. Press .



555-1212 is the last number dialed. The last number dialed appears in speed-dial location Ø.



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

4. Press SEND.



# Al pha Search

Alpha Search allows you to select a number by entering the first letter of the name (alias) associated with it. If no name is stored under a letter, the unit automatically searches forward, alphabetically, until the next name is found.

(Example: Make a phone call to Luke. The key 5 is used for names beginning with J, K, and L.)

1. Press PHONE.



Press (ALPHA.





4. Press SEND.



To select a letter: 1st press = 1st letter; 2nd press = 2nd letter;  $3rd\ press = 3rd\ letter.$ If several names in the list begin with the same letter, use the **\D** to view other names.

#### Receiving a Phone Call

A ringing tone alerts you of an incoming phone call. In addition, the following message is displayed.

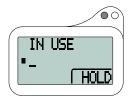
(Example: You are receiving a phone call.)



If Caller ID is supported on your Network, the top line of the display will indicate the number or name of the person calling.

• To answer a phone call:





Lifting the handset from the cradle automatically answers the call.

• If you are unable to answer the phone call, press END.

#### **DTMF Tones**

Once an initial call has been made, pressing a key generates a Dual-Tone Multi-Frequency (DTMF) tone for the duration of the key press. DTMF tones are often used for credit-card dialing, answering machines, voice mail, etc.

# **Burst DTMF Sequence**

Once an initial call has been made, a second number may be selected by Memory Scroll, Alpha Search, or Speed Dial. Pressing causes the number to be sent as a rapid DTMF tone sequence.

DTMF tones and Burst DTMF sequences made during a call can be redialed by pressing (SEN).

You can redial the last number dialed by pressing send.

To review the last number dialed before sending:

Press SPD# , .

#### **Automatic Redial**

This feature automatically redials a phone number when the system is busy.

If you receive a fast busy tone when dialing, press (SEND) instead of ending the call. "REDIAL" appears on the display, indicating that you have selected this feature. The unit will attempt to place the call continuously for the next four minutes. The phone will ring once, alerting you that your call is being placed.

To cancel Automatic Redial, press [ND].

# **Displaying Your Own Number**

While in the Phone mode, your own phone number can be easily recalled. To view your own phone number:

Press 5PD# 1, ★.

# **Scratchpad**

The Scratchpad allows you to enter numbers from the keypad during a phone conversation. If your party gives you another number to call, simply enter the number using the keypad. Advise your party that they will hear tones as you store the number. To call the scratchpad number at the end of the conversation, press end, send.

# Silent Scratchpad

The Mute Key ( M ) allows you to enter scratch pad numbers during a phone call without transmitting DTMF tones or hearing keypad tones. Press the wey once, then enter your phone number. Press the key again to unmute the microphone. Mute also disables the microphone during phone calls, preventing the other party from hearing you. A solid yellow status indicator lights when the microphone is muted.

# Silent Memo Pad MEMO

While in Phone mode, a number can be stored at any time for future reference or use. You can store a number during a phone call without sending DTMF tones or hearing keypad tones.

(Example: Store 555-2121 in the Memo Pad.)

1. Press PHONE.



2. Press .



The first pair of option keys is displayed automatically.

3. Press .



4. Press MEMO .



555-3567 is the last number stored. At this point, pressing SEND causes 555-3567 to be dialed.

5. Press 5552121.



Pressing SEND here automatically stores and places a phone call to *555-2121*.

Phone Operations

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#### Call Forwarding FORWD

This feature allows you to forward incoming phone calls to a desired number. There are four types of Call Forwarding services: Forward All Calls, Busy Transfer, No-Answer Transfer, and No-Reach Transfer. Call Forwarding can only be accessed while your phone is idle.

#### **Forward All Calls**

This feature allows you to forward all incoming phone calls to a desired number. You can select the phone number to which your calls are to be forwarded by: Direct Dial, Memory Scroll, Speed Dial, or Alpha Search.

# Turning On Forward All Calls

(Using Direct Dial)

(Example: Forward all your calls to the office, 555-1234.)

1. Press PHONE.



To select by Memory Scroll, Speed Dial, or Alpha Search, use the same procedure described in "Phone Operations."

2. Press .





The last number selected for Forward All Calls appears on the display.

4. Enter 5551234.



5. Press OH.



Each time the mobile unit is turned on, a message reminds you that Forward All Calls is on.

6. Press EXIT.



- Turning Off Forward All Calls
- Press PHONE.



2. Press .



3. Press FORUDI.



The last number selected for Forward All Calls appears on the display.

4. Press OFF.



5. Press EXIT.



**Phone Operations** 

Busy Transfer BUSY

When your phone is busy, this feature transfers incoming phone calls to a number you have selected. You can select the phone number to

which your calls are to be transferred by: Direct Dial, Memory Scroll, Speed Dial, or Alpha Search.

BUSY 1, NoAns, and NoRch are accessed by first pressing FORUD. If Forward All Calls is on, Busy Transfer, No-Answer Transfer, and No-Reach Transfer cannot be accessed.

# No-Answer Transfer Nofins

When you are unable to answer your phone, this feature transfers incoming phone calls to a number you have selected. You can select the phone number to which your calls are to be transferred by: Direct Dial, Memory Scroll, Speed Dial, or Alpha Search.

#### No-Reach Transfer NoReh

When your phone is out-of-reach, this feature transfers incoming phone calls to a number you have previously selected. Your phone is out-of-reach when you have traveled beyond the range of the system, involved in a radio call, or your mobile unit is turned off.

You can select the phone number to which your calls are to be transferred by: Direct Dial, Memory Scroll, Speed Dial, or Alpha Search.

Turning On Busy Transfer, No-Answer Transfer, and No-Reach Transfer

To select by Memory Scroll, Speed Dial, or Alpha Search, use the same procedure described in "Phone Operations."

(Using Direct Dial)

(Example: Turn No-Reach Transfer on to 555-5432.)

After you select FORUD,.





If Forward All Calls is on, Busy Transfer, No-Answer Transfer, and No-Reach Transfer cannot be accessed.

2. Press



The last number selected for No-Reach Transfer appears on the display. The steps for turning these features on are the same except for step 3; press BUSY , NoAns , or NoRch) as appropriate.

3. Press NoRch.



4. Enter 5555432.



Move the ■ to Line 3 and press **d** to find SPD# and FLPHA.

5. Press ON.



6. Press EXIT.



If Busy Transfer, No-Answer Transfer, or No-Reach Transfer are on, turning on Forward All Calls causes all incoming phone calls to be routed to the Forward All Calls number.



Phone Operations

Turning Off Busy Transfer, No-Answer Transfer, and No-Reach Transfer

After you select FORWDI,.



1. Press 

.



2. Press .



3. Press NoRch.



4. Press EXIT.



The last number used for No-Reach Transfer appears on the display. The steps for turning these features off are the same except for step 3; press BUSY , NoAns , or NoRch as appropriate.

Phone Operations



# Call Forwarding Recall ROL#

This feature allows you to automatically verify the status (On/ Off) of all Call Forwarding services with your network. You may want to RCL# when roaming, changing service providers, or following network trouble.

RCL# is an available option for each of the Call Forwarding services. After selecting a specific service, move the ■ to Line 3 and press **\( \rightarrow**\) to find this option.

### Call Hold THOLD

This feature places a call on hold. Placing a call on hold allows you to make a second call. You can alternate between the two calls by pressing HOLD.

(Example: Place Joe on hold and call Bob, 555-5781.)

While talking with Joe,



1. Press HOLD.





3. Press SEND.



4. Press HOLD.



5. Press HOLD.



At this point, you are alternating between the two calls.

The person you are currently talking to appears on line 2 of the display next to the  $\blacksquare$ .

These calls cannot be joined to form a threeway call.

6. Press END.



Pressing end terminates the active call and automatically returns you to the other call.

Phone Operations



At this point pressing end terminates your call with Joe.

# **Call Waiting**

Call Waiting allows you to answer an incoming call while you are speaking on the phone. A distinctive tone and a display message alert you of an incoming phone call.

# Answering a Call Waiting

(Example: You are talking to Joe, and you receive another call.)





If Caller ID is supported on your Network, the top line of the display will indicate the number or name of the person calling.

1. Press YES.



Pressing HOLD allows you to alternate between the two calls.

**Phone Operations** 



Pressing automatically returns you to the first conversation.

Rejecting a Call Waiting

If you are unable to take the call: Press NO.





Phone Operations

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# • Turning Call Waiting Off IMIT

This feature allows you to turn off Call Waiting for the duration of a phone call. You can turn off Call Waiting before or during a call.

After your phone call is completed, Call Waiting is automatically turned back on.

1. Press PHONE.



2. Press .



3. Press **⋖**twice.



4. Press WAIT I.



5. Press OFF.



You are now ready to make a call without interruption from Call Waiting.

**Phone Operations** 

**Phone Operations** 

Phone Operations

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#### MESSAGE MAIL™ MAIL

Message Mail is accessed by pressing the MAIL option key from within any mode: PHONE, GROUP, or PHONE.

Message Mail allows you to receive as many as eight alphanumeric messages. The most recent messages

Message Mail may be read at any time without interrupting radio or phone operation.

are displayed first. The messages can be read at any time by pressing the READ option key. Once you read a message, you can choose SAVE to or ERASE it.

Each message can contain up to 140 characters. The time and date that a message is received at the Message Mail center are automatically added to the end of each message.

If a phone number has been included within a message, you can call the number directly by pressing send.

### **Reviewing and Reading Messages**

Upon entering Message Mail, you can scroll through the beginning of each message. This allows you to scan the message headers and then select those messages you want to read.

(Example: Read and save message 2.)

1. Press PHONE.



2. Press .



# Message Mail

3. Press MAIL.



The number of new and saved messages automatically appears, followed by your first message.



The ▶ indicates that you have more message headers. Use the ▶ to scan through the message headers.

4. Press .



At this point, pressing READ allows you to view the entire message.

5. Press READ.



6. Press SAVE.



SAUE automatically appears on the last screen of each message. To delete a message, press ERASE.

7. Press FRACE).



The time and date are displayed as hours:minutes, month/day.

# Message Mail Call Back

You can automatically call a phone number that has been included within a message by pressing .



Press SEND



Pressing SEND automatically calls 555-5321.

# **Receiving New Mail**

Alert tones signal incoming Message Mail. In addition, the following message is displayed:



To read your mail immediately, press | | | .

Saved and unread messages are protected from being overwritten. Once eight messages have been saved, one or more must be erased in order to receive new messages. "MAIL WAITNG" is displayed when the Message Mail center is holding additional mail.

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#### PROGRAMMING MENU MENU

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

There are two ways to access the Programming Menu:

Fast Access™

The Programming Menu can be accessed using the MENU option key at any time without interrupting radio or phone operation. Fast Access can be used at any time other than during a phone conversation.

Fast Access can be used while in any mode: Fast Access, or Fast Access allows you to directly select any feature by pressing , followed by the associated feature number.

# THENU Option Key

The Programming Menu can also be accessed by pressing the MENU option key, available from within any mode. With this approach, you can then select features by: Direct Entry of the feature number or scrolling using the keys.

### **Programming Menu Table**

No.	Feature	Function
1	Own Phone Number	Displays the telephone number of your mobile.
2	Signal Strength Indicator	Displays the strength of the signal received.
4	Manual Lock	Disables keypad to prevent unauthorized use. (Passcode must be entered to unlock).
5	Automatic Lock	Set ON to automatically lock your mobile each time it is powered off to prevent unauthorized use.

No.	Feature	Function
6	Auto Answer	Set ON to have your mobile automatically answer incoming phone calls after 1-4 rings.
7	Theft Alarm	If your unit is turned on by an unauthorized person, the auxiliary alerting device is activated for 5 minutes. To disable the alarm, enter your passcode within 30 seconds after turning on your unit. If you inadvertently trip the alarm, you can disable it by entering your passcode. This feature requires additional equipment.
8	Horn and Lights	If you receive a Private call, Phone Call, or Call Alert while you are away from your vehicle, an auxiliaryalerting device is activated for up to 5 seconds. To disable the alerts, press any key on your unit. Responding to the call automatically disables the alerts.  Note: Your mobile unit must be on for this feature
10	Last Call Timer	to operate.  Displays duration of the
10	Daot Can Time!	most recent phone call.
11	Automatic Display Timer	Set ON to automatically display the Last Call Timer at the end of each phone call.



No.	Feature	Function
12	Resettable Timer	Displays cumulative airtime of all phone calls since last reset.
13	Total Call Timer	Displays cumulative airtime of all phone calls.
14	One Minute Beep	Set ON to have your mobile automatically signal each minute of elapsed phone airtime with an audible beep.
20	Phone List Programming	Add/Edit/Erase up to 100 frequently called phone numbers and associated name tags.
21	Private ID List Programming	Add/Edit/Erase up to 100 Private Call Radio ID's and associated name tags.
22	Talkgroup ID List Programming	Add/Edit/Erase name tag identifiers for up to 30 pre-programmed talkgroups.
23	Area ID List Programming	Add/Edit/Erase name tag identifiers for up to 50 targeted areas.
30	Ringer Volume	Set default ringer volume using the volume control keys, or lower the volume to silence the ringer.
31	Earpiece Volume	Set default earpiece volume using the volume control keys.

No.	Feature	Function
32	Speaker Volume	Temporarily adjusts Group/Private Speaker volume for noisy environments.
33	Keypad Volume	Set volume of keypad tones using the volume control keys.
34	Mail Volume	Set volume of incoming Message Mail tones using the volume control keys.
35	External Speaker	When enabled, this feature routes all audio and alert tones, that are normally heard through the handset speaker, to the external speaker
36	Volume Set Tone	Turn speaker volume set tones on or off.
37	Volume Set Disable	When enabled, this feature sets and locks all volumes to a predetermined level and locks them there, so the user with the handset cannot change the audio gain that is input to the remote desksets. This enables the person at the remote deskset to adjust his volume appropriately. When this feature is disabled, control of the voume is given back to the user, with the volume staying at the default level until changed.



No.	Feature	Function
40	Change Passcode	Change your secret 4-digit passcode from initial setting of 0000.

Note: Contact your service provider before performing the shaded programming menu features below:

41	Feature Reset	Return all feature settings to their original defaults.
42	Master Clear	Perform Feature Reset and erase all stored lists.
43	Master Reset	Resets the mobile's identification number.
44	Change Service Key	Changes or resets the Ki fraud prevention service key.
50	NAM Selection	Select alternate Numeric Assignment Module (NAM). See local service provider for information.
51	Preferred Network ID	Edit the pre-programmed Network ID list and select roaming options.
60?	Set Baud Rate (m470 only)	Set the modem baud rate between the radio and the PC for circuit data. (See Circuit Data User's Guide - publication number 68P81084C18).

61	Data Ringer Volume (m470 only)	Set default data ringer volume using the volume control keys. (See Circuit Data User's Guide - publication
		number 68P81084C18).

# **Programming Menu Examples**

Following is an example from each category of the Programming Menu

Auto Answer (Using MENU)

(Example: Turn Auto Answer ON.)

1. Press GROUP.



MENU can also be accessed from PHONE and prvi modes.

2. Press **t** twice.



3. Press ▶.



4. Press MENU.



At this point, pressing OK takes you to the first feature (own phone number).



6. Press ON.



To change the number of rings before your unit automatically answers, you can Direct Enter from the keypad or scroll using the **⋖⊳** keys.

Press OK .



At this point, you can Direct Enter or scroll to another feature.

8. Press EXIT.



Last Call Timer (Using MENU)

(Example: Review the air-time usage of your last phone call. The Last Call Timer is feature number 10. Your Own Phone Number is 1.)

1. Press  $\leftarrow$ , move  $\blacksquare$  to Line 3, and press  $\triangleright$ .

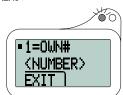






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2. Press MENU.



3. Press 12.



4. Press .



At this point, you can Direct Enter or scroll to another feature.

5. Press EXIT.



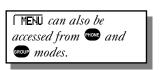
• Phone List Programming

Adding an Entry (Using MENU)

(Example: Add Al, 555-5431 to the phone list in the next available speed-dial location.)

1. Press , move ■ to Line 3.





3. Press 280.



4. Press **0**.



At this point, you can Direct Enter or scroll to another feature.

5. Press OK.



6. Press OK.



To erase a character,

# Programming Menu

7. Enter 5555431.



8. Press STORE.



Entering a name is optional. At this point, you can store only the number by pressing ISTORE again.

9. Press 2 ...



To select a letter:

1st press = 1st letter; 2nd press = 2nd letter;  $3rd\ press = 3rd\ letter.$ 

10. Press **▶**.



Press **>** to enter the next letter of the name.

11. Press 5th three times.



# Programming Menu 12. Press STORE.



13. Press STORE.



A confirmation message is displayed.

store a number in a location that is already used.

The next available speeddial location appears. You can Direct Enter a differ-

ent location number rang-

ing between 1-99. A warning message is displayed when you attempt to



14. Press EXIT.



15. Press EXIT.



• Editing an Entry (Using Fast Access)

(Example: Change the first number in your phone list to 555-5483.)

1. Press \*, #, 2ABC, 0.



Fast Access can be used from within any mode:

2. Press OK.



3. Press ▶.



At this point, pressing deletes the number and name from your list.

4. Press OK.



5. Press .



A stored phone entry can be selected by: entering the speed-dial location or Memory Scroll. In Radio ID, Talkgroup, and Service Area List Programming, an entry is accessed by Memory Scroll only.

# Programming Menu

6. Press OK.



7. Enter 5555483.



8. Press STORE.



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

9. Press STORE.



A confirmation message is displayed.



• Erasing an Entry (Using Fast Access)

(Example: Erase Anne which is the first entry in your phone list.)

1. Press \*, #, 280, 0.



Fast Access can be used from within any mode:

2. Press OK.



3. Press twice.



4. Press OK.



5. Press OK.





6. Press VES.

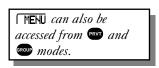


• Adjusting Earpiece Volume (Using MENU)

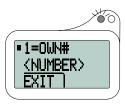
(Example: Decrease the volume for your earpiece, Feature #31. Battery indicator is Feature #3, and Ringer is Feature #30.)

1. Press , move ■ to Line 3, and press ►.

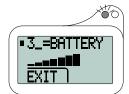




2. Press MENU.



3. Press 3 DEF.



4. Press .



5. Press .



6. Press and hold Volume Decrease (V).



The Volume Control keys ( V \ ) are located on the side of the unit.

7. Press EXIT.



During a conversation, pressing the Volume Control keys (  $\bigvee \Lambda$  ) also adjusts the Earpiece Volume.

Changing Passcode (Using Fast Access)

(Example: Change your Passcode to 7164.)

1. Press \*, #, 450, 0.



Fast Access can be used from within any mode:

2. Press OK .



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, 7164.





A confirmation message is displayed.



NAM Selection (Using Fast Access)

(Example: Select your second NAM.)

1. Press \*, #, 550, 0.



Fast Access can be used from within any mode:

The currently selected NAM is displayed.

2. Press OK.



When programmed, the phone number also appears; this is your own phone number.

3. Press .



4. Press OK.



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



• Preferred Network ID (Using Fast Access)

(Example: Select "ROAM ALL" for the 3rd entry in the list.)

1. Press \*, #, 5x, 0.



Fast Access can be used from within any mode:

2. Press OK.



3. Press btwice.



4. Press EDIT.



5. Press **①**.





6. Press RMAII.



7. Press STORE.



A confirmation message is displayed.

Selecting No Rm instructs your unit to only attempt to register onto the first

two Networks in the list. Selecting No Rm as the

first entry of your list, instructs your unit to

operate in your home

system only.



8. Press EXIT.



When roaming, your unit will first attempt to register onto the first and second Networks in the list. If it cannot successfully register, it will then attempt to register onto any Network.

# **ADDITIONAL INFORMATION**

Features	Benefits
Alpha Search	Allows you to look up a phone number or radio ID by its associated name.
Automatic Redial	Simplifies phone operation by automatically retrying until a connection is made.
Call Alert	Ensures that you never miss important radio calls. This feature also provides radio call screening and easy call-back.
Call Forwarding	Allows you to route phone calls to another number.
Call Hold	Allows you to be a part of two independent phone calls.
Call-in-Progress Protection	Allows you to continue a conversation even after turning off the car's ignition.
Call Waiting	Allows you to take another phone call while already engaged in a phone conversation.
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 and phone numbers using the keypad.
DTMF Tones	Dual-Tone Multi-Frequency Tones; allow access to services such as voice mail and answering machines.
Fast Access	Allows you to directly select features found in the Programming Menu.
Group Call	A convenient way to communicate with a group of individuals simultaneously.
Handset Operation	Allows you to privately make and receive calls.
Hands-Free	Provides a safe way to operate your mobile unit while driving.
Horn and Lights	This feature ensures that you will not miss important calls while away from your vehicle.
Last Number Redial	Allows you to easily place a call to the last number dialed without entering the number again

ber again.

#### Additional Information **Features Benefits** List Programming Allows you to personalize your phone and radio lists. Lock Features Prevents unauthorized use of your mobile Memory Scroll A convenient way of searching through lists for a desired number or name. Message Mail This feature ensures that you never miss important information. Also provides phone call screening and easy call-back. Own Phone Number Allows you to view your personal phone number at any time. Passcode Provides added security to your mobile Phone Operation Keeps you in touch regardless of your loca-Phone Timers Helps manage your phone usage costs. Private Call An easy-to-operate person-to-person radio call. Radio Operation A cost-effective means of communicating with other radio users. Service Area SelectionAllows you to direct Group Calls to specific geographic sites. Service Key Eliminates fraudulent use of your mobile unit. Signal Strength Allows you to check the reception strength before proceeding with a call. Silent Memo Pad A convenient "note pad" on which you can enter a number which can be dialed with a single key press. Silent Ringer Ensures that you will not be disturbed during important meetings. Speed Dial A fast way of recalling a phone number. Status Indicators Informs you, at a glance, when your unit is roaming, engaged in a call, or muted. Talkgroup Selection Allows you to direct Group Calls to a specific group of individuals.



vehicle.

Alerts you of an unauthorized use of your

Theft Alarm

#### SAFETY AND GENERAL INFORMATION

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR INTEGRATED MULTI-SERVICE MOBILE RADIO.

For the safe and efficient operation of your radio, observe these guidelines.

Your radio contains a transmitter and a receiver. When it is ON, it receives and transmits radio frequency (RF) energy. The radio operates in the frequency range of 806MHz to 866MHz and employs digital modulation techniques. When you use your radio, the system handling your call controls the power level at which your radio transmits. The power level may typically vary over a range from 0.03 of a watt to 3 watts.

## Exposure to Radio Frequency Energy

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. In addition, the International Commission on Non-Ionizing Radiation Protection (ICNRP) has established standards containing RF exposure guidelines. Motorola iDEN products comply with these standards.

#### Antenna and Installation Considerations

All equipment must be properly installed according to Motorola installation instructions.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or result in violation of the ICNRP or the FCC.

## Interference to Medical and Personal El ectronic Devices

Most electronic equipment is shielded from RF energy. However, RF energy from the radio transmitter may affect inadequately shielded electronic equipment.

Do not operate the radio when any person is within 6 inches (0.15 meters) of the antenna. That person may be using a pacemaker, a hearing aid or other personal electronic device which may not be adequately shielded.

## Interference to other El ectronic Devices

RF energy may affect improperly installed or inadequately shielded electronic operating and entertainment systems in motor vehicles. Check with the manufacturer or representative to determine if these systems are adequately shielded from external energy. Also check with the manufacturer of any equipment that has been added to the vehicle.

## Use while driving

Check the laws and regulations on the use of telephones in the areas where you drive. Always obey them.



When using the phone while driving, please:

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

## Blasting Areas and Explosives



WARNING

Do not operate the radio near electric blasting caps, or in a blasting area, to avoid the possibility of triggering an explosion. Turn your radio OFF when in a "blasting area" or in areas where such requirements are posted.

Potential I y Explosive Atmospheres



WARNING

Turn your radio OFF when in any area with a potentially explosive atmosphere. It is rare, but your radio or its accessories could generate sparks which might trigger an explosion.



Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include areas such as below deck on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or parti-**WARNING** cles, 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 radio 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 an Air Bag



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 of the handset with a damp cloth, using a mild solution of dishwashing detergent and water. Some household cleaners may contain chemicals which could seriously damage the housing. Avoid the use of any petroleum-based solvent cleaners. Also, avoid applying liquids directly on the 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 bicolor red and green; the right is yellow. Below is a description of these indicators.

Status Indicator	Illuminates While:
Solid Green	Talking/Transmitting
Blinking Green	In Service
Solid Yellow	Mute Enabled
Blinking Yellow	Roaming
Solid Red	No Service
Blinking Red	Registering on a Network

# **Error Message Table**

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

Error Message	Message Description
INVALID ENTRY	The entered number is not valid
UNKNOWN USER	The network does not recognize your mobile unit.
TARGET NOT AVAILABLE	The targeted unit of your call is either busy, out-of-range, or turned off. Please try again later.

Error Message	Message Description
TARGET NOT HUTHORIZED	The targeted unit of your call has not purchased this service.
NETWORK TROUBLE	The network is experiencing difficulty. Please try again later.
SERVICE OUT OF ORDER	This service is temporarily not available. Please try again later.
TARGET BUSY IN FRIVATE	The targeted unit that you are trying to contact is busy in a Private Call.
SERVICE RESTRICTED	This service has been restricted by your service provider or it has not been purchased.
SERVICE NOT AVAILABLE	This feature is not available on the current network.



Error Message	Message Description
SYSTEM BUSY TRY LATER	The system is experiencing heavy traffic. Please try again later.
SERUICE CONFLICT	This service cannot be enabled because an incompatible service has already been turned on.
PLEASE TRY AGAIN	A general error has occurred. Please note the error code and contact your service provider.
SELF CHECK ERROR	A fault has been detected with your unit. Should this error recur, note the error code and contact your sales representative.
SELF CHECK FAIL	An operational fault has occurred. Turn your unit off and contact your sales representative immediately.
DEVICE NOT COMPATIBLE	The device currently connected to the unit has not been designed to operate with your unit.

**Additional Information** 

# FREQUENTLY CALLED PHONE NUMBERS

<b>Phone Numbers</b>		Radio IDs			
2			1	Name	
4			4		
6 7			6 7		
9			9		
11			11		
14			13 14		
16			15		
18			Talkgro	oup IDs	
21			1	Name	
23			3		
26			5 6		
28			8		
30			10 11		
33			13		
35			15		
Emerger	ncy Numb	ers			
Police			Poison C	Control	
State Patrol Fire			Ambular Life Sav	ing and Rescu	ie Squad

# **OWNER'S INFORMATION**

Personal Radio ID  Passcode (4 digits)
Passcode
(4 digits)
Date Purchased
Dealer Telephone Numbe

11	
Active Line Indicator	3
Active-Line Key	3
Additional Information	71
Air Bag	76
Alert tones	
Alpha Search	. 19, 22, 28, 71
Alphanumeric Display	
Alphanumeric Keypad	
Antenna	
Area ID List Programming	
Auto Answer	
Automatic Display Timer	50
Automatic Lock	
Automatic Redial	
Automatic Turn On/Off	6
В	
Blasting Areas	74
Burst DTMF	
Busy Transfer	
•	
C	
Call Alert	1, 21, 71
Call Alert Stacking	
Call Forwarding	
Call Forwarding Recall	39
Call Hold	
Call in Progress Protection	,
Call Waiting	
Call-in-Progress	
Change Passcode	
Change Service Key	
Cleaning Instructions	

Index	
D	
Data Ringer Volume 54	4
Digital Technology	
Direct Dial	5
Direct Entry	
Directional Keys	
Display	
DTMF Tones	
Dual Tone Multi-Frequency (DTMF)	7
<b>.</b>	
<b>E</b> Earpiece	3
Earpiece Volume	
Editing an Entry	
Error Message Table	
Escalert	
Explosive Atmospheres	
External Speaker	
	_
F	
Fast Access	1
Feature Reset	3
Features	1
Forward All Calls	3
G	
Group	<u></u>
1	
Group Call	
Group Mode Key	3
Н	
Handset	6
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