Motorola™

iDEN® Digital Portable

i600 - Multi-Service Phone

Getting Started

CONTENTS

Patent Information

This product is protected under one or more of the following patents:

4817157, 4896361, 4857928, 5041793, 5060294, 5066923, 5134718, 5140156, 5239963, 5257411, 5287387, 5265219, 5289504, 5316168, 5317247, 5338396, 5389927, 5406588, 5424921, 5457376, 5460906, 5551063, 5557079, 5596487, 5615412, 5638403, 5559468, 5469465, 5170413, 5140615, 5519730, 5241544, 5584059, 5574992, 5396656, 5487091, 5533004, 5299199, 5343499, 5369501, 5509031, 5515379, 5528723, 5598417, 5066923, 5241650, 5278833, 5359696, 5548631, 5410632, 5440582, 5457735, 5457818, 5471670, 5477550, 5481537, 5566181, 5229767, 5208804, 5295140, 5381449, 5440590, 5467398, 5490230, 5620242, 5623523, 5655913

Trademarks

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iDEN is a registered trademark of Motorola, Inc.
®Reg. U.S. Pat. & Tm. Off.

All other trademarks mentioned in this manual are trademarks of their respective companies.

Important!

Be sure to read "Safety and General Information " on page 39 before using your i1000 Portable.

YOUR PORTABLE PHONE

Congratulations on purchasing your Motorola iDEN *i*600 digital portable phone. Superior features and state-of-the-art technology help to keep you in constant touch with all of your business and personal contacts.

The *i*600 phone is a multi-service communication unit that offers the following functions:

- ▶ Phone
- ▶ Private Call
- ▶ Group Call
- ▶ Voice Mail
- ▶ Message Mail

ABOUT YOUR PHONE'S FEATURES

This guide describes the features that most people use every day. However, your service provider or your organization might have customized your phone to optimize its use for your individual needs. For more information, check with your service provider or organization.

Additional information for your iDEN Digital Portable Phone can be found on the Motorola iDEN web site: http://www.mot.com/LMPS/iDEN

FEATURE LOCATOR

1. Antenna

2. Earpiece

17. Volume Control Keys

16. Push-To-Talk (PTT) Button

3. Alphanumeric Display

4. Option Keys

15. MENU Key

5. Scroll Keys

14. LED

6. Mode Key

13. ON/OFF Key

7. END Key

12. Alphanumeric Keypad

8. SEND Key

11. Speaker

10. Microphone

9. Group/Private Speaker Key
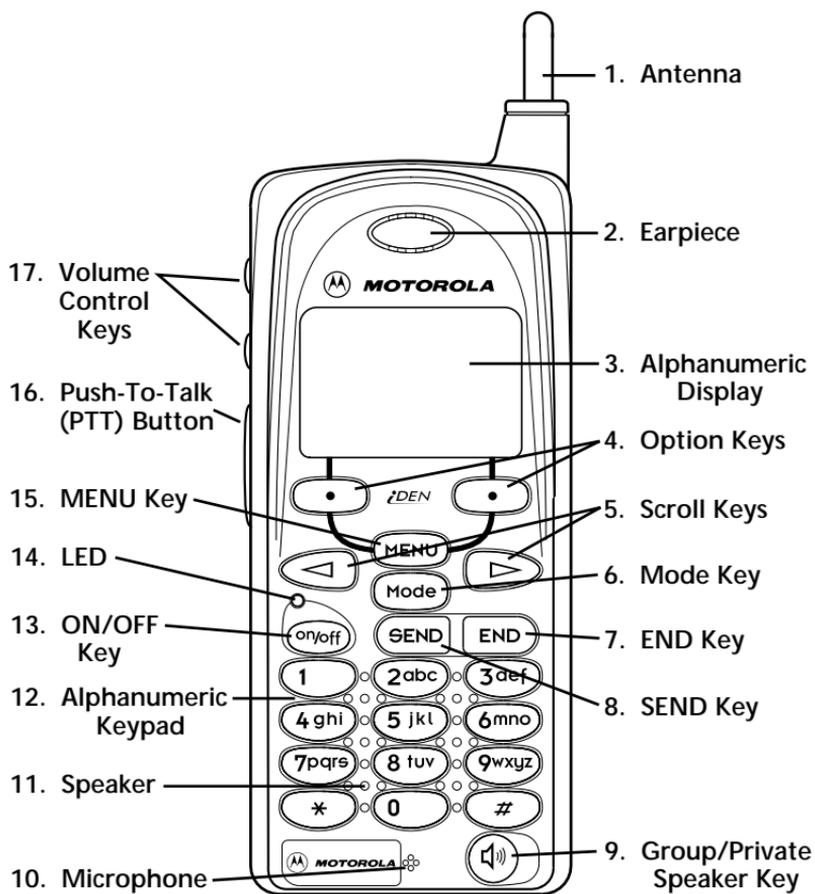
1. Antenna	Extend for optimal signal.
2. Earpiece	Hold to your ear to listen during phone calls and Group/Private low-audio communication .
3. Alphanumeric Display	View up to four lines (up to 12 characters per line) on the display.
4. Option Keys	Press to select the option that appears directly above the left or right key on the fourth line of the display.
5. Scroll Keys	Press the left or right key to scroll forward or backward through options and lists, such as Phone, Group, or Private Call lists.
6. Mode Key	Press to change between Phone, Group, and Private modes.
7. END Key	Press to end phone calls.
8. SEND Key	Press to answer an incoming phone call or, after entering a phone number, to begin an outgoing phone call.
9. Group/Private Speaker Key	Press to listen to audio through either the earpiece or the speaker during Group and Private calls.
10. Microphone	Speak into it during communications.
11. Speaker	Listen to audio conversations.
12. Alphanumeric Keypad	Enter telephone numbers, Private Call IDs, and alphanumeric characters.
13. On/Off Key	Press to turn your phone on or off.
14. LED	Check the phone status. See Table 1 on page 6 for information about the phone status.
15. MENU Key	Scroll through the menu options that are available on the last line within each mode.
16. Push-To-Talk (PTT) Button	Transmit a Group or Private Call, or a Call Alert. Press and hold the PTT button to talk; release it to listen.
17. Volume Control Keys	Press to adjust volume levels.

BATTERY

Charging the Battery

You should charge the portable phone battery for at least 16 hours before you use it for the first time. This allows the battery to achieve its maximum capacity and life.

Place the battery in the charger, as shown.

You can also place the portable phone with the battery attached in the charger.
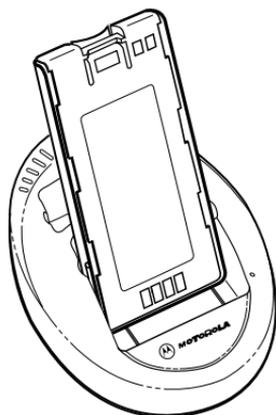
Attaching the Battery

To attach the charged battery to your portable phone, align the battery with the engraved arrows on the phone. Slide the battery upward until you hear a click.

Engraved Arrows
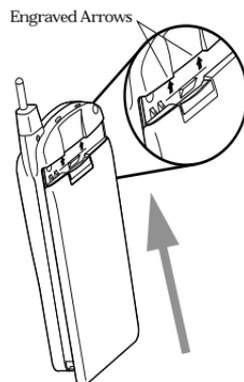
Detaching the Battery

To detach the battery, pull back on the release button near the top of the battery and slide the battery downward.

Low Battery

A low battery is indicated by a short, sharp, chirp-like sound through the speaker.

DISPLAY ICONS

After you turn on the portable phone, icons appear along the top of the display to inform you of the following conditions.

Signal Strength Indicator

Shows the signal strength. Six bars indicate the strongest signal. Calls and messages may not be sent or received in weak signal areas.

Battery Strength Indicator

Shows the remaining charge in your battery. Three bars show full charge. This indicator flashes when you have less than five minutes of talk time.

Voice Mail

Indicates that unplayed messages are waiting in your voice mail box.

New Message Mail

Indicates that you have new text messages in your mail box.

Unread Message Mail

Indicates that you have unread text messages in your mail box.

Vibrate All

Indicates that the Vibrate All option is turned on.

Line Indicator and Call Forward

Indicates call forward status.

The number indicates the active phone line.

Group/Private Speaker

Indicates that the Group/Private Speaker is off. You will hear audio through the earpiece.

POWERING ON

Press ⬭ until a set of icons and squares appears on your display. (For a description of the icons, see page 5.) Then the message "Please Wait" displays while the unit registers on the system.
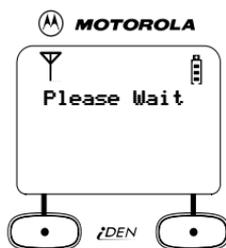
The LED indicator located above the

⬭ button shows the in-service states of your portable phone. See the following table.

Table 1: LED Indicator

LED Indicator	Phone Status
Flashing Red	Registering—this is the first state after you turn on the unit.
Solid Red	No service—the unit cannot register on the system. The unit continues to attempt registration approximately every two minutes as long as the unit is powered on.
Flashing Green	In service—the LED indicator flashes green and the Phone Ready message displays. You can now place and receive Phone, Group, and Private calls.
Solid Green	In use—-the unit is in the process of placing or receiving a call.

POWERING OFF

Press and hold ⬭ for one second until you see the message "Powering Off".

VIBRACALL™

You can set the VibraCall feature to notify you of all incoming calls and messages, or you can select individual services for vibration alert.

Selecting All Incoming Calls and Messages

1. Press ✱ # 9wxyz to access the VibraCall Programming Menu item.

2. Press ⊙ under "All".

```
      Ⓜ MOTOROLA
  ▽
  ▼ⓘ             1      🔋
  9=Vibrate
  Alert:Off

  Exit        All
     •    ¿DEN    •
```
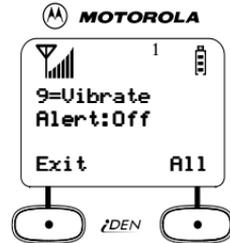
After you set the vibration alert for all incoming calls and messages, the display returns to the previous mode and the Vibrate All icon appears.

```
      Ⓜ MOTOROLA
  ▽
  ▼ⓘ  ✎      1  📢🔋
  Phone Ready
  Line1 Vibe

  Name        Mail
     •    ¿DEN    •
```

Selecting Individual Services

To set the vibration alert for specific phone or mail services:

1. Press ✱ # 9wxyz.

2. Press MENU until you see the "Selct" option on the last line of the display.

```
      Ⓜ MOTOROLA
  ▽
  ▼ⓘ             1      🔋
  9=Vibrate
  Alert: Off

  Exit        Off
     •    ¿DEN    •
```

i600
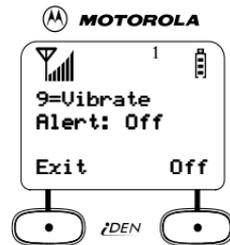
3. Press ⬡ under "Selct".

This allows you to individually set a vibration alert for incoming calls and messages.
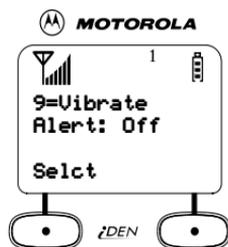
The first selection is Vibe. To view other vibration alert choices, press (MENU) on the keypad.

The vibration selection that you make affects only the service shown. In this example, vibration is set only for Phone mode. You must set each mode or service individually or select the VibeAll to set all services.
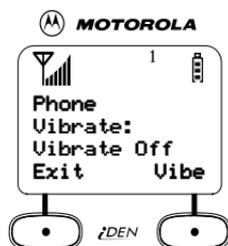
4. To set a vibration alert for another mode, such as "Mail" or "Group/Prvt", press ◁ ▷ on the keypad until you see the desired mode or service.

5. Select "Exit" to return to the Vibrate Alert menu.

6. Select "Exit" again to return to your previous base mode.
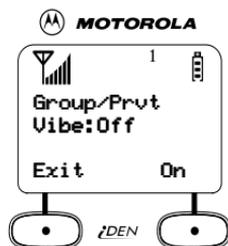
N O T E
If you have a second line and want to change the vibration selections for the second line, exit this programming feature, select the other line, and repeat the procedure for selecting all services or selecting individual services to vibrate.

The VibraCall feature notifies you of incoming phone calls and messages by a non-audible alert. The choices are:

- Vibrate Only
  Produces only a vibration.

- Vibrate/Ring
  Produces a vibration followed by a ring tone.

- Vibrate Off
  Turns off the vibration and produces only a ring tone.

In "Mail" and "Group/Prvt" modes, the choices are only on or off.

N O T E S
- **If VibraCall is enabled for incoming calls and messages, the power-up sequence includes a brief vibrate cycle.**

- **Even if VibraCall is enabled, you will get a call-waiting tone instead of a vibration when you receive a second phone call.**

CHANGING THE DISPLAY LANGUAGE

You can customize your portable phone to operate in one of three languages:

- English, Spanish, or French, or
- English, Spanish, or Portuguese

The choices that you have depend on your service provider.

To change the display language:

1. Press ⊛ ⊛ ⊛ ⊛ to quickly access the Programming Menu item associated with multi-language support.

2. Press ⬤ under "Ok".

3. Press ◁ or ▷ to scroll through the language options.

   Pressing ⬤ under "Exit" at any time retains the current language selection.
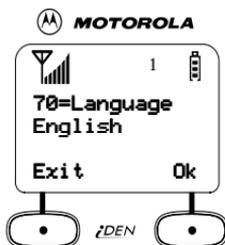
4. Press ⬤ under "Ok" when the language you desire is in the display. The text immediately changes to the selected language.

5. Press ⬤ under "Exit", "Salir", "Quitt", or "Sair" (whichever one displays) to exit this mode.
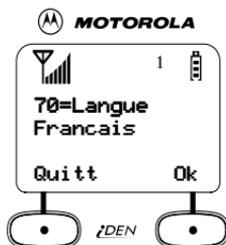
The language that you select will be the operating language until you repeat this procedure to select another language.

MODE

Press ⟨Mode⟩ to switch between Phone, Group, and Private Call modes.

When your portable phone is *in service*, your display looks like the following screens for the Phone, Group Call, and Private Call modes. If the word "Ready" does not appear after the mode name in the display, your unit is *out of service*.

Phone Mode

```
Ⓜ MOTOROLA

📶     1    🔋
Phone Ready
Line 1

Name      Mail
  •   ¿DEN   •
```

Group Call Mode

```
Ⓜ MOTOROLA

📶     1    🔋
Group Ready
Sales Reps

Alert     Mail
  •   ¿DEN   •
```

Private Call Mode

```
Ⓜ MOTOROLA

📶     1    🔋
Prvt Ready
John

Alert     Mail
  •   ¿DEN   •
```
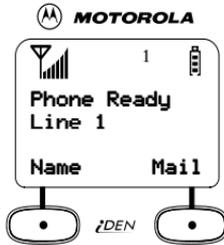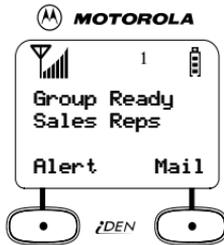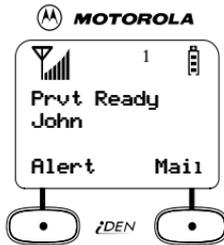
MENU

Each mode has menu options that appear on
the last line of the display.

You can select available options in each
mode.
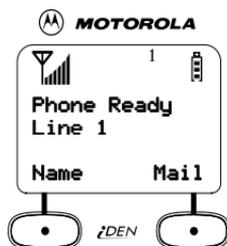
Phone Mode Menu Options

Name	Mail
Forwd	Spd#
Memo	Prgm
Wait	Line 2

Group Mode Menu Options

Alert	Mail
Area	Prgm

Private Mode Menu Options

Alert	Mail
Name	Prgm

To use menu options:

1. Press (Mode) to select the mode (Phone, Group, or Private).

2. Press (MENU) to scroll through the available menu options for the
   selected mode.

3. Press (•) under the displayed menu option that you wish to
   select.

PHONE

In Phone mode, you can make and receive phone calls, forward calls, use the call waiting and call hold features, and use three-way calling.

MAKING A PHONE CALL

Press (Mode) until "Phone Ready" appears on your display. You are now in Phone mode.

Phone mode allows you to place phone calls. You can receive incoming phone calls from any mode (Phone, Group, or Private).

There are four methods for entering a phone number: Direct Dial, Scroll, Speed Dial, and Name.
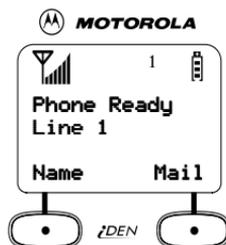
Direct Dial Method

1. You can dial the number using the keypad. If you make a mistake, press ◁.

   You can return to the "Phone Ready" mode at any time by pressing the option • key under the word "Cancl".

2. Press (SEND) to place the call.

3. Press (END) to hang up.

Scroll Method

1. Press the scroll keys ◁ ▷ to scroll backward or forward through the stored list of numbers and names.

2. Press (SEND) to place the call.

3. Press (END) to hang up.

Speed Dial Method

1. Press (MENU) until you see the "Spd#" option on the last line of your display.

2. Press • under "Spd#".

3. Enter the assigned speed dial number (1-100). For more

information, see "Storing Numbers in the Phone List" on page 21.

4. Press (SEND) to place the call.

5. Press (END) to hang up.

Name Method

1. Press (•) under "Name".

2. Press the numeric key with the first letter of the name.

3. Press (◁) or (▷) to scroll through the list.

4. Press (SEND) to place the call.

5. Press (END) to hang up.

Emergency Dialing

The Emergency Dial feature allows you to call the emergency phone number by continuously pressing a single key. This feature is available even when the keypad is locked, although it is not available during an active call.

1. From any mode (Phone, Private Call, or Group Call), press and hold (9wxyz) until the unit displays "EMERGENCY".

2. Press (END) to terminate the call. The emergency phone number will not be saved as the last number dialed.

> **N O T E**
> **Contact your service provider for details on the Emergency Dial feature.**

Automatic Redial

If you receive a "System Busy, Try Later" message, press (SEND) and your portable phone will automatically attempt to redial the number. You will hear a ring tone when the call is successful.

Last Number Redial

To redial the last number, simply press (SEND).

RECEIVING A PHONE CALL

1. Press ⌜SEND⌝ to answer an incoming phone call.
   Or, you may press any numeric key (0 through 9), the asterisk (*),
   or the pound sign (#).

2. Press ⌜END⌝ to hang up.

RECALLING YOUR OWN PHONE NUMBER

> **N O T E**
> **If your portable phone has two phone lines, first set**
> **the line for the phone number that you want to**
> **display, and then continue here. For more**
> **information, see "Setting the Active Line" on page 20.**

1. To recall the phone number of your unit (or the active line, if
   you have two lines), press ⊙(*) ⊙(#) ⊙(1).

2. Press ⊙(•) under "Exit".

SELECTABLE RING STYLES

Your phone has nine selectable ring styles. Portable phones with two phone lines can use the same ring style or different ring styles for each phone line.

1. Press ✱ # 3def 5jkl to quickly access the Programming Menu item for ring style selection.

   The display shows your current selection.

2. Press • under "Ok".

3. Press the ◁ ▷ keys to scroll through the available Ring Styles.

4. Press the volume △ ▽ keys to listen to the selected ring style.

5. Press • under "Ok" to select the current Ring Style in the display.

   Or, press • under "Cancl" to leave the Ring Style unchanged.
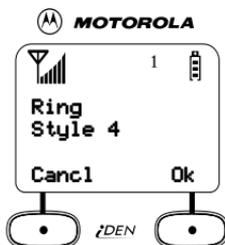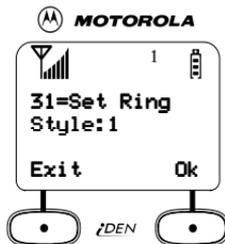
N O T E
If you have a second line and want to change the ring style for the second line, exit this programming feature, select the other line, and repeat the above procedure for Selectable Ring Styles.

Phone

CALL FORWARDING

You can forward incoming phone calls to any number that you specify.

Selecting a Call Forward Number

You can select the call forward number in one of four ways: entering the number using the alphanumeric keypad, using the scroll ◁ ▷ keys to select the number from your phone list, using Name Search, or using Speed Dial.

Unconditional Call Forwarding

1. Within Phone mode, press (MENU) until you see "Forwd" on the last line of the display.

2. Press (•) under "Forwd".

3. Either enter a number or press the scroll keys to select the number where you want your calls forwarded.

Ⓜ **MOTOROLA**

```
┌──────────────────────┐
│ ▼ull            1   ▯ │
│                      │
│ Phone Ready          │
│ Line 1               │
│                      │
│ Forwd          Spd#  │
└──────────────────────┘
   (•)    iDEN    (•)
```
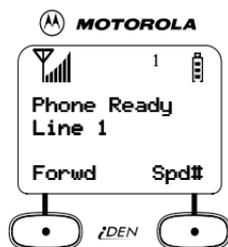
N O T E
You can select a number using the scroll keys only if you have previously stored phone numbers. See "Storing Numbers in the Phone List" on page 21.

4. Press (•) under "On".

5. After the "Please Wait" message displays, press (•) under "Exit".

Notice that the Call Forward icon ☎¹▶ appears on your display when Unconditional Call Forwarding is enabled.

Conditional Call Forwarding

You may want to forward your calls only if your unit is busy (Busy), cannot be answered (NoAns), or you cannot be reached (NoRch).

N O T E
You must turn off Unconditional Call Forwarding before you can use Conditional Call Forwarding options.

1. Within Phone mode, press (MENU) until you see "Forwd" on the last line of your display.

2. Press (•) under "Forwd". The next two screens display the conditional call-forwarding options.

3. Press (MENU) once until you see "Busy" and "NoAns" on the last line of your display.

  • To forward your calls when your unit is busy, press (•) under "Busy".

  • To forward your calls when you cannot answer a call, press (•) under "NoAns".

4. Press (MENU) again until you see "NoRch" and "Rcl#" on the last line of your display.

  • To forward your calls when you cannot be reached, press (•) under "NoRch".

5. After you select the call-forward option, either enter the number where you want your calls forwarded, or press the scroll buttons and select a number.

6. Press (•) under "On".

7. Press (•) under "Exit".
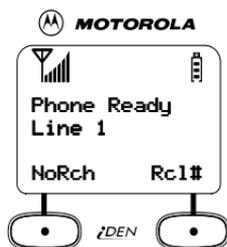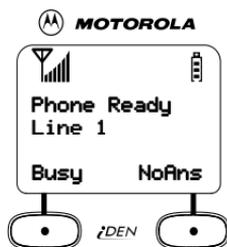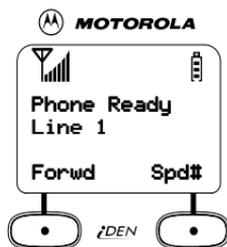
CALL WAITING

Using the Call Waiting feature, you can answer an incoming call when you are on another call. Call Waiting is on unless you turn it off for a particular call.

1. You will hear a tone to alert you of an incoming call. Your display shows the incoming number and asks "Accept Call?". To accept the call, press ⬭ under "Yes" on the last line of your display.

```
 Ⓜ MOTOROLA
 Yₐₗₗₗ        1      🔋
 555-1212
 Take Call
 On Line 1?
 No           Yes
   ⬭    ¿DEN   ⬭
```

2. Press ⬭ under "Hold" to place the second call on hold and return to the first call. Pressing ⬭ under "Hold" toggles you between the two calls.

3. Press END to end the active call.

```
 Ⓜ MOTOROLA
 Yₐₗₗₗ        1      🔋
 Call 1-Hold
 555-1212

              Hold
   ⬭    ¿DEN   ⬭
```
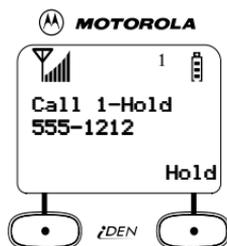
CALL HOLD

"Hold" appears as an option on your display only while you are on an active call.

1. Press ⬭ under "Hold" on your display to place the active call on hold. You may then answer or place another call.

2. Press ⬭ under "Hold" again to remove the call from hold.

3-WAY CALLING

If your portable phone is programmed with 3-way calling, you can combine two ongoing phone calls into one conversation. This option is available only when you initiate the second call.

1. Place a phone call or receive a phone call.

2. Press ⬭ under "3way". This action places the current call on hold.

3. Enter the phone number for the second call and press "3way" to join the two calls.

4. Press END to end the 3-way call. You cannot place either call on hold during the 3-way call.

ALTERNATE PHONE LINE

If your portable phone is programmed with two phone lines, you can switch between them.

Your phone must be inactive in Phone mode (Phone Ready) to change phone lines.

The following settings are independent for each phone line. When you enable a setting, it applies only to the active line.

- Ringer Volume
- Auto Answer
- One-minute Beep
- Automatic Display Timer
- Resettable Timer
- Total Call Timer
- Selectable Ring Styles
- Call Forwarding

Setting the Active Line

1. Be sure that your phone displays "Phone Ready".

2. Press (MENU) until you see "Line 1" or "Line 2".

3. Press ⌁ under "Line1" to activate Line 1 when Line 2 is the active line,

   or, press ⌁ under "Line2" to activate Line 2 when Line 1 is the active line.
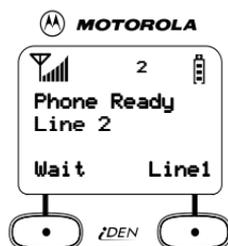
Receiving a Call

You can receive calls on either line, regardless of the active line setting.

- If the line is the same as the currently active line, that icon simply flashes.

- If the call is on the line not currently active, the active line icon remains lit and the alternate line icon flashes.

Receiving Multiple Calls

1. Press ⬭ under "Yes" to answer the call on the other line. Your previous call will be placed on hold.

2. Press ⟦END⟧ to end the call or press "Hold" to place the current call on hold.

When the call is terminated, the unit remains active in the last active line selected.
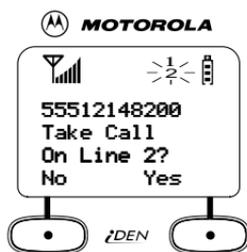
STORING NUMBERS IN THE PHONE LIST

You can add up to 100 numbers to your phone list, store them with names or aliases (alternate name tags), and assign them to speed-dial numbers. The procedure begins on page *22*.

Entering Phone Numbers Using the Keypad

To enter a number, press the corresponding number key.

Entering an Alias Using the Keypad

The number of times you press a key to enter a letter depends on the position of the letter on the key. The following table illustrates how to enter each letter on the ⑦ᵖᑫʳˢ key.

Table 2: Entering an Alias on the Keypad

Letter	Position
P	To enter the first letter on the keypad, press the key **once**.
Q	To enter the second letter on the keypad, press the key **twice**.
R	To enter the third letter on the keypad, press the key **three times**.
S	To enter the fourth letter on the keypad, press the key **four times**.
7	To enter the number, press the key **five times**.

Entering and Changing Names and Numbers

1. Press ⊛ ⊗ ⊘ ⊙.

2. Press ⊙ under "Ok". The "20=Phone List Program" line appears on your display.

3. Select the type of edit that you want to perform:

Add	To add a new entry, press ⊙ under "Ok".
Edit	To edit an existing number, press ▷ once, then press ⊙ under "Ok".
Erase	To erase an existing number, press ▷ twice, then press ⊙ under "Ok".

4. Enter the number and press ⊙ under "Store".

5. Enter the name or alias that you want to associate with this number and press ⊙ under "Store".

   For information on how to enter an alias, see "Entering an Alias Using the Keypad" on page 21.

6. Enter the Speed Dial number for this number or accept the default number shown.

7. Press ⊙ under "Store".

8. After you enter all the desired numbers, press ⊙ under "Exit".

9. Press ⊙ under "Exit".

PRIVATE CALL

A Private Call is a one-to-one communication between two individuals. Each unit is identified by a name or a number that contains up to five digits.

GROUP/PRIVATE SPEAKER

You can hear the audio through either the earpiece or the speaker in Private mode. Pressing the ⏨ key turns the Group/Private Speaker on or off.

If you set the Group/Private Speaker key on, you will hear incoming audio through the speaker.

If you set the Group/Private Speaker key off, a brief alert tone notifies you of activity within the private call. You will hear incoming audio through the earpiece.

MAKING A PRIVATE CALL

There are three methods: Direct Entry, Scroll, or Name.

Direct Entry Method

1. Press (Mode) until you see "Prvt Ready" on your display. This is the Private Call default display.

2. Use the keypad to enter the Private Call ID of the person that you want to reach.

3. To speak, press and hold the PTT button, wait for the chirp, then speak into the microphone.

4. To listen, release the PTT button.
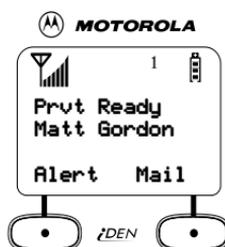
Scroll Method

1. Press ◁ or ▷ to select the person from the Private Call list with whom you want to have a Private Call.

2. Press and hold the PTT button, wait for the chirp, then speak into the microphone.

Name Method

1. Press (MENU) until you see the "Name" menu option on the last line of your display.

2. Press (•) under "Name".

3. Press the key with the first letter of the name associated with the private ID.

4. Press (◁) or (▷) to scroll through the list.

5. Press and hold the PTT button, wait for the chirp, then speak into the microphone.

RECEIVING A PRIVATE CALL

When you receive an incoming Private Call, you hear a brief tone. Your unit automatically switches to Private Call mode, and the Private Call ID or the name of the caller displays.

Wait for the caller to finish speaking, then press and hold the PTT button. Begin speaking after you hear the chirp.

RECALLING YOUR PRIVATE ID

1. To recall your phone's private ID, press (＊) (＃) (2abc).

2. Press (•) under "Exit".

CALL ALERT

You can access Call Alert from the Group and Private modes. Using Call Alert, you can privately page an individual by sending an audible tone.

Sending a Call Alert

1. Press (MENU) until you see "Alert" on your display.

2. Press (•) under "Alert".

3. Enter the private ID or press (◁) (▷) to scroll to the name of the person to whom you want to send the Call Alert. You may also select the person by using Name Search.

4. Press the PTT button to send the Call Alert.

Private Call

Receiving a Call Alert

When you receive a Call Alert, you hear a tone and see a message on your display.

1. Press the PTT button to return the Call Alert.

2. Press ⬮ under "Clear" to clear the Call Alert, or press any key other than the PTT button to silence the alert tones.

> **N O T E**
> **Until the Call Alert is cleared or returned, you will be blocked from receiving any additional Phone, Group, or Private calls.**

CALL ALERT STACKING

Call Alert Stacking is an optional feature that allows you to save up to eight 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 ⬮ under "Clear".

- To place the Call Alert into the queue, press ⬮ under "Queue". Pressing the Mode key also stacks the Call Alert.
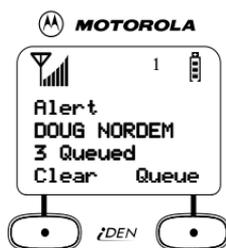
If you receive multiple Call Alerts, the last received Call Alert displays and the remaining Call Alerts are stacked at the beginning of the queue.

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 ⬮ under "Queue".

2. Press ◁ or ▷ to scroll to the desired Call Alert.

3. Press the PTT button to respond to the Call Alert. After you respond to the Alert, it is removed from the stack.

PRIVATE CALL ID PROGRAMMING

You can add radio IDs to your Private Call list and store them with names or aliases.

1. Press ✱ ♯ 2abc 1 .

2. Press • under "Ok". The "21=Radio Id List Program" line appears on your display.

3. Select the type of edit that you want to perform.

Add	To add a new entry, press • under "Ok".
Edit	To edit an existing number, press ▷ once, then press • under "Ok".
Erase	To erase an existing number, press ▷ twice, then press • under "Ok".

4. Enter the radio ID (up to five digits) and press • under "Store".

5. Enter the name or alias that you want to associate with this radio ID and press • under "Store". For instructions on entering names or aliases, see "Storing Numbers in the Phone List" on page 21.

6. When you finish entering the new radio IDs, press • under "Exit".

7. Press • under "Exit".

GROUP CALL

A Group Call is an instant communication between you and others in a selected talkgroup.

A talkgroup is a pre-defined set of individuals who share a common communication need. Talkgroups appear on your display as names or numbers; for example, Sales Reps, Service, Talkgrp10.

GROUP/PRIVATE SPEAKER

You can hear the audio through either the earpiece or the speaker in Group mode. Pressing the (◀») key turns the Group/Private Speaker on or off.

If you set the Group/Private Speaker key on, you will hear incoming audio through the speaker. This is helpful in monitoring talkgroup activity.

If you set the Group/Private Speaker key off, a brief alert tone notifies you of activity within the talkgroup. You will hear incoming audio through the earpiece.

MAKING A GROUP CALL

1. Press (Mode) until "Group Ready" displays. This is the Group Call mode default display.

   Your active talkgroup displays, for example, "Sales Reps".

2. To initiate the call to this talkgroup, press and hold the Push to Talk (PTT) button. Wait for the chirp sound and then speak into the microphone.

3. Release the PTT button to listen.

CHANGING TALKGROUPS

You may change talkgroups to reach talkgroups other than the one that is active. Your phone can store up to 30 pre-defined talkgroups.

1. From the Group Call mode, enter the talkgroup number, or press ▷ to select the talkgroup.

2. Press ● under "Ok".

3. Press the PTT button to initiate the call.

RECEIVING A GROUP CALL

No action is necessary to receive a Group Call as long as your unit is not busy in an active Phone or Private Call.

Any communication activity within the talkgroup that you select automatically switches your unit into Group mode. You will receive the talkgroup transmission as long as your phone is powered on.

AREA SELECTION

When in Group mode, you can send your communication only to those talkgroup members in a specific location. This is useful when you know where the individuals are located within the service area.

1. Press (Mode) until you see "Group Ready" on your display.

2. Press (•) under "Area".

3. Press (▷) to scroll through the targeted areas specified by your local service provider.

4. Press (•) under "Ok" to select the targeted area. The area selected appears on the last line of your display.

TALKGROUP NAMING

To add a talkgroup name to your portable phone, press (*) (#) (2abc) (2abc).

For instructions on programming IDs and aliases, see "Private Call ID Programming" on page 26.

VOICE MAIL

Your portable phone provides full support for Voice Mail. You can access this function from any mode by pressing ⬭ under the "Mail" menu option.

When you receive new voice mail messages in your network-based voice mailbox, the 📞 📞 icon appears on your display and you hear the Voice Mail alert tone (if Mail Notification Display is turned on).

- To turn on mail notification, press ✱ # 3def then press ⬭ under "On".

- To turn off mail notification, press ✱ # 3def then press ⬭ under "Off".

RETRIEVING VOICE MAIL

In addition to the Voice Mail alert tone, you also see the message, "New Voice Mail Waiting".

To retrieve your voice mail immediately, press ⬭ under "Dial". This action automatically places a call to your voice mailbox.

To clear your display, press ⬭ under "Exit".

VIEWING VOICE MAIL STATUS

You may view the status of messages in your voice mailbox at anytime.

1. Press ⬭ under "Mail" from any mode.

2. Press ⬭ under "Voice".

The display shows the number of New messages and the Total number of messages currently in your voice mailbox.

When you see an exclamation point (!) on the display, you have at least one urgent message. Press ⬭ under "Dial" to retrieve your urgent voice mail messages.

NOTES:

MESSAGE MAIL™

Your portable phone provides full support for Message Mail. You can access this function from any mode by pressing ⬭ under the "Mail" menu option.

Message Mail can be either a numeric page or a text message of up to 140 characters. Your portable phone can receive and store 16 mail messages at any time.

RECEIVING NEW MESSAGE MAIL

When you receive a new message, the icon 🔳 appears and flashes. You may also receive an audible alert.

- Press ⬭ under "Now" to read your new mail immediately.

- Press ⬭ under "Later" to postpone reading your mail and to clear the display. The icon stops flashing but remains on your display to remind you that you have unread messages.

```
Ⓜ MOTOROLA

Y₁₁₁₁      ⛯ 🔋

New Mail
Read?

Now        Later
  ●   ¿DEN   ●
```
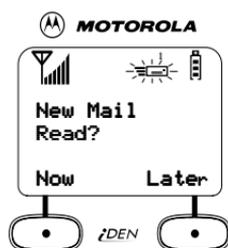
RETRIEVING STORED/UNREAD MAIL

You may access postponed or saved Message Mail from any mode.

1. Press ⬭ under "Mail".

2. Press ⬭ under "Mesg". A status screen, showing the number of new and saved messages displays temporarily before the most recent message appears.

3. Use ◁ and ▷ to scroll quickly through the first screen of any unread or saved mail messages.

4. Press ⬭ under "Read" to read the entire message.

SAVING AND ERASING MAIL

After you view a text or numeric message, you can either Save or Erase the message. Press ⬭ under the desired option.

AUTO CALL BACK

You can respond to numeric pages and text messages containing a call-back number. To automatically dial a number contained within a Message Mail, press ⬭SEND.

MESSAGE MAIL MEMORY FULL

If all 16 message registers are full, your phone displays the message "Mail Waiting, Memory Full". You cannot receive new Message Mail until you erase saved or unread messages.

PROGRAMMING MENU OPTIONS

You can customize the settings on your portable phone using the Programming Menu.

You may access the Programming Menu from any Mode (Phone, Group, or Private).

1. Press (MENU) until you see "Prgm" on the display.

2. Press (•) under "Prgm".

3. Press (•) under "Ok".

4. Press (◁) or (▷) to scroll to the desired Programming Menu Option or enter the number of the Option.

You can use a shortcut method to enter the Programming Menu by pressing (*) (#) then entering the keypad number(s) of the Programming Menu Option (see the following table).

Table 3: Programming Menu Options

Keypad Number	Menu Option	Function
1	Own Phone Number	Displays the telephone number of your portable phone.
2	Private ID Display	Displays the radio ID of your portable phone. You must enter this number.
3	Mail Notification Display	Turns on and off the New Mail message that is displayed with incoming Voice or Message Mail.
4	Manual Lock	Locks your phone to prevent unauthorized use. You must enter a pass code to unlock it. With the manual lock on, you can reach emergency help by pressing and holding the key.
5	Automatic Lock	Automatically locks your phone each time it is powered off to prevent unauthorized use.

Table 3: Programming Menu Options

Keypad Number	Menu Option	Function
6	Auto Answer	Turns on or off automatic answering of incoming phone calls after 1-4 rings.
9	Vibrate Alert	Provides non-audible notification of incoming calls and messages.
The following options require you to press two keypad numbers. For example, to enter keypad number 10, press 1 then press 0.		
10	Last Call Timer	Displays the duration of the most recent phone call.
11	Automatic Display Timer	Turns on or off automatic display of the Last Call Timer at the end of each phone call.
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	Automatically signals each minute of elapsed phone airtime with an audible beep.
20	Phone List Programming	Adds/Edits/Erases up to 100 frequently called phone numbers and associated name tags.
21	Prvt ID List Program	Adds/Edits/Erases up to 100 Private Call Radio IDs and associated name tags.
22	Talkgroup List Program	Adds/Edits/Erases name tag identifiers for up to 30 pre-programmed talkgroups.
23	Area ID List Program	Adds/Edits/Erases name tag identifiers for up to 50 targeted areas.

Programming Menu

Table 3: Programming Menu Options

Keypad Number	Menu Option	Function
30	Ringer Volume	Allows you to set the ringer volume using the volume control keys, or lower the volume to silence the ringer.
31	Set Ring Style	Allows you to select a distinct ring style for incoming phone calls.
32	Mail Volume	Allows you to set the volume of incoming Message Mail and Voice Mail tones using the volume control keys, or lower the volume to silence the mail alert tones.
33	Earpiece Volume	Allows you to set the default earpiece volume using the volume control keys.
34	Keypad Volume	Allows you to set the volume of the keypad tones using the volume control keys, or to silence the keypad tones.
35	Speaker Volume	Temporarily adjusts the Group/Private Speaker volume for noisy environments.
36	Speaker Volume Set Tone	Turns the speaker volume set tones on or off.
38	Silent Group	Silences all incoming Group Call alerts and voice activity.
40	Change Passcode	Changes your secret four-digit passcode from the initial setting of 0000.
70	Multi-Language Support	Provides your choice of one of three languages for your display text.

Programming Menu

N O T E
**Contact your service provider before performing the
shaded programming menu features below.**

Option Number	Menu Option	Function
41	Feature Reset	Returns all feature settings to their original defaults.
42	Master Clear	Performs Feature Reset and erase all stored lists.
43	Master Reset	Resets the phone identification number.
44	Change Service Key	Changes or resets the fraud prevention service key.
50	NAM Selection	Selects alternate Numeric Assignment Module (NAM). See local service provider for information.
51	Preferred Network ID	Edits the pre-programmed Network ID list and select roaming options.

Programming Menu

ERROR MESSAGES

You may receive error messages under certain conditions. Before contacting your service provider, note the message, numeric code, and the conditions under which it appeared. The following table lists and describes the error messages.

Table 4: Error Messages

Error Messages	Message Description
Number Not in Service	The number that you entered is not valid.
User Not Available	The unit of the party that you called is either busy, out-of-range, or turned off. Please try again later.
Target Not Authorized	The party that you called has not purchased this service.
Please Try Later	This service is temporarily not available. Please try again later.
Target Busy in Private	The unit of the party that you called 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.
System Busy Try Later	The system is experiencing heavy traffic. Please try again later.
Service Conflict	This service cannot be enabled because an incompatible service has already been turned on.
Please Try Again	A general error has occurred. Note the error code and contact your service provider.

Table 4: Error Messages

Error Messages	Message Description
Self Check Error	A fault was detected with your portable phone. Should this error recur, note the error code and contact your service provider.
Self Check Fail	An operational fault was detected with your portable phone. Note the numeric code, turn your phone off, and contact your service provider immediately.

SAFETY AND GENERAL INFORMATION

> **IMPORTANT!**   *Read this information before using your phone.*

RADIO OPERATION

Your radio contains a transmitter and a receiver. When it is ON, it receives, and also 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 0.01 of a watt to 0.6 of a watt.

• **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. Those guidelines are consistent with the safety standards* previously set by both U.S. and international standards bodies. The design of your Motorola two-way radio complies with the FCC guidelines and these standards.

*American National Standards Institute (C95.1 - 1992)

*National Council on Radiation Protection and Measurements (NCRP-1986)

*International Commission on Non-Ionizing Radiation Protection (ICNRP- 1986)

To assure optimal radio performance and to ensure that exposure to RF energy is within the guidelines in the above standards, follow the operating procedures outlined below.

• **Efficient Radio Operation**

The following practices will enable your radio to operate at the lowest power level, consistent with satisfactory call quality.

When placing or receiving a phone call, or using the group or private call functions with the Group/Private Speaker OFF (muted speaker icon visible in the display), hold the radio as you would a telephone.

Speak directly into the mouthpiece and position the antenna up and over your shoulder.

When using the radio as a traditional two-way radio while making group or private calls with the Group/Private Speaker ON (no speaker icon visible in the display), hold the radio in a vertical position with the microphone one to two inches away from the lips.

For body-worn operation, the antenna should be kept at least one inch from the body when transmitting.

DO NOT hold the antenna when the radio is "IN USE".

Holding the antenna affects call quality and may cause the radio to operate at a higher power level than needed.

• **Antenna Considerations**

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 ICNRP or FCC regulations.

> **Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result.**
>
> **C a u t i o n**

• **Interference to Medical and Personal Electronic Devices**

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

Consult the manufacturer(s) of your medical and personal electronic device(s) (for example, a pacemaker or a hearing aid) to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your radio OFF in health care facilities when any regulations posted in the area instruct you to do so. Hospitals and health care facilities may be using equipment that is sensitive to external RF energy.

- **Interference to Other Electronic Devices**

RF energy may affect improperly 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 RF energy. Also check with the manufacturer of any equipment that has been added to the vehicle.

Turn your radio OFF before boarding any aircraft to prevent possible interference to aircraft systems. Regulations of the United States Federal Aviation Administration prohibit use when the plane is in the air and require that you have permission from a crew member to use your radio while the plane is on the ground.

- **Batteries**

> **! Caution**
>
> **All batteries can cause property damage, injury or burns if a conductive material such as jewelry, keys, or beaded chains touch the exposed terminals. The material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside your pocket, purse or other container. To protect against a short circuit when the battery is detached from the phone, keep the battery in the insulated protective case provided with the battery.**

- **Use While Driving**

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

> **! Caution**
>
> **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.**

- Children

Do not allow children to play with your radio. It is not a toy. Children could hurt themselves or others (by poking themselves or others in the eye with the antenna, for example). Children also could damage the radio, or make calls that increase your service bills.

C a u t i o n

- Blasting Areas and Explosives

DO NOT operate your 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.

W A R N I N G

- Potentially Explosive Atmospheres

WARNING

Turn your radio OFF and do not replace the battery 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 particles, such as grain, dust, or metal powders.

Do not transport or store flammable gas, liquid, or explosives in the compartment of your vehicle that 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

WARNING

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 dishwashing 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 portable unit.

FOR FURTHER INFORMATION

For more detailed information, see the i600 Digital Portable A - Z Reference Guide located on the iDEN web site at http://www.mot.com/LMPS/iDEN

Be sure to carry the Pocket Card with you for quick reference.

OWNER'S INFORMATION

Mobile Equipment Identifier (IMEI)

_____

Phone Number

_____

Own Private ID

_____

Date Purchased

_____

Dealer Telephone Number

_____

Customer Service Number

_____

RADIO ID DIRECTORY

	Private ID	Name
1		
2		
3		
4		
5		
6		
7		
8		
9		

TALKGROUP ID DIRECTORY

	Talkgroup ID	Name
1		
2		
3		
4		
5		
6		
7		
8		
9		