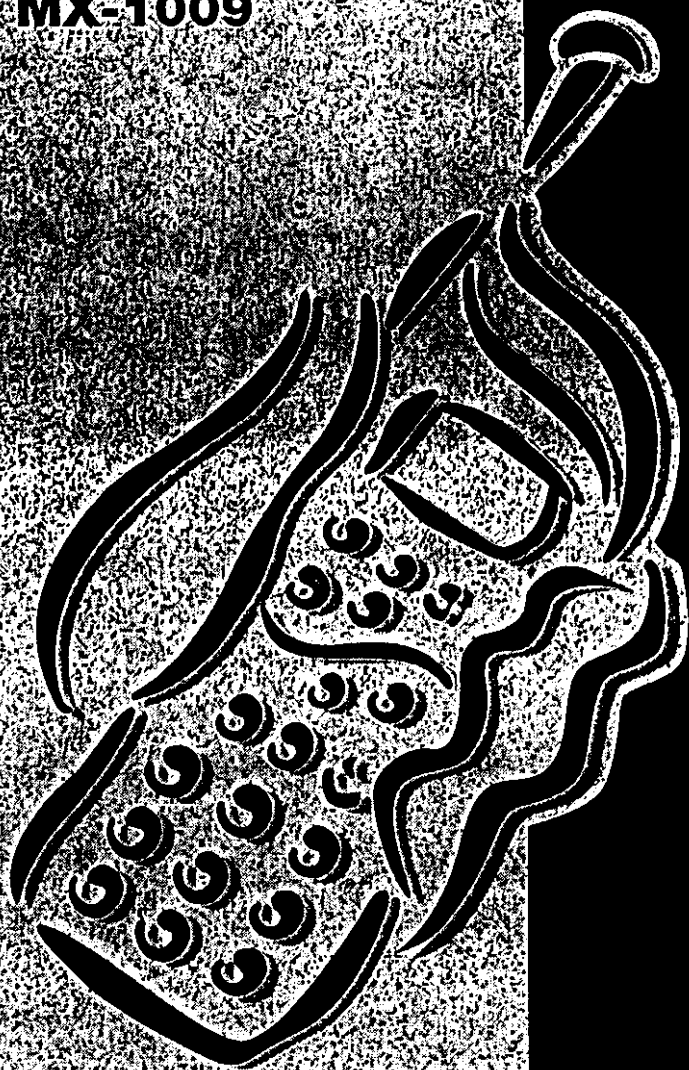
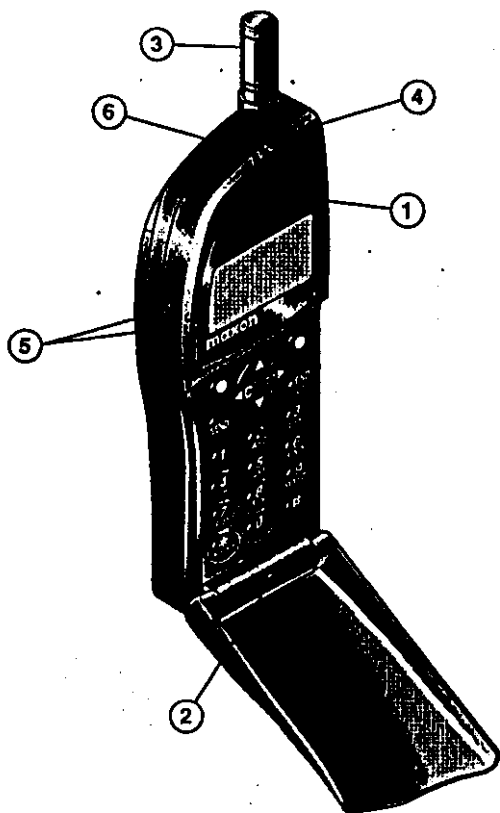


maxon
MX-1009



- automatic digital/analog network mode
- 99 name and number memory
- 3 line 48 character display
- easy to use feature menu
- supports voice mail alert and calling number identification
- call timer
- one touch dialing
- scratch pad
- in call budget timer
- call list and missed call indicator
- own number display
- English SMS (short message service)
- DTMF tones
- dimensions 122 x 45 x 24.8
- flip type



(Flip not shown for clarity)

-  End a call and exit feature menu
-  Dial a displayed number
-  [menu] Enter menus and character entry
-  [book] Recall stored and called numbers
-  Clear and entry or exit a feature
-  Mail access key
-  Upward search
-  Downward search
-  Alert mode Indicator
-  Digital mode Indicator
-  Analog mode Indicator
-  In - Use
-  No Service
-  Battery power level
-  Signal strength
-  Mail Indicator
-  Set Call Indicator
-  Alarm mode Indicator
- ① Earpiece
- ② Microphone
- ③ Retractable antenna
- ④ Key press and ringer speaker
- ⑤ Volume adjustment and feature search
- ⑥ Visual Alert Indicator

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Introduction

Congratulations on choosing the Maxon MX-1009 dual network mobile phone.

The MX-1009 has been designed to operate on both the digital CDMA network and the analog AMPS network.

To help you understand the features of the MX-1009 and the networks, we have included a glossary of common terms in Section 12 of this guide and given information about the networks on pages 4.1 and 5.7.

Your mobile phone is intended for use with the supplied Ni-MH rechargeable battery, charger and any of the approved accessories shown in section 13 of this user guide. Other usage will invalidate any approval given to this equipment and may be dangerous.

The MX-1009 conforms to IS-95A, IS-96A and IS-98 type approval for mobile phones.

Maxon Electronics reserve the right to make changes and improvements to any of the products described in this guide without prior notice.



Security

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2

2.1

- If your phone is lost or stolen you must report it to your network operator or service provider so that they can bar the phone from use.
- This is important as you may be liable for the cost of unauthorized calls until the equipment is barred
- You can help prevent mobile phone crime by taking the following precautions:

- set the phone lock
- set call restrictions
- don't leave your phone visible in a vehicle when you leave it. Take the phone with you or lock it in the boot or glove compartment

Safety

Personal

- operation of any radio equipment including mobile phones, may interfere with the function of inadequately shielded medical devices such as hearing aids and pacemakers. You must consult the manufacturer of the device or your physician before use
- do not switch on your mobile phone in hospitals unless areas where mobiles can be used are clearly marked as mobile phone can cause interference to medical equipment.
- observe restrictions on the use of radio equipment in fuel depots, chemical plants, in areas where explosive gases are present or where blasting operations are in progress. Your mobile phone will continue to transmit call responses if left in stand-by mode. You must switch off when requested to do so
- do not move the antenna close to, or touching any exposed part of the body when making a call, a damaged antenna may cause a minor burn

Mobile Phone Use

- your mobile phone produces magnetic fields. Do not place next to magnetic storage media such as computer diskettes
- operating your mobile phone close to other electrical equipment such as televisions, phones, radios and personal computers, may cause interference
- do not expose your mobile phone to strong sunlight, direct heat or liquids (such as water)



Battery Use

- do not short circuit the battery terminals. This will damage the battery, produce heat and may cause a fire
- never dispose of batteries in a fire as this can cause them to explode. Return dead batteries to your supplier or an approved recycling centre. DO NOT dispose with household waste

WARNING: If the battery case breaks, avoid contact with the contents. Wash contaminated skin with lots of water and seek medical attention.

On the Road

- before making or receiving calls acquaint yourself thoroughly with the applicable local laws and guidelines regarding the use of mobile radio telephones and observe them at all times
- air safety bags, anti-lock brakes, speed control and fuel injection systems are normally immune to radio transmissions but if you experience problems, consult your vehicle dealer
- switch off your mobile phone when refueling or where there are signs restricting the use of 2-way radio equipment. Do not store or carry flammable or explosive materials in the same compartment as your mobile phone, internal sparks could cause ignition

Inside Aircraft

- switch off your mobile phone when in an aircraft. The use of mobile phones in an aircraft may be dangerous to the operation of the aircraft, disrupt the cellular network and is illegal

The Networks

Your phone can operate on two different cellular systems (networks) and will automatically switch between the two to provide you with the best service.

The Analog AMPS Network

- This is the original cellular system for mobile phones which provides excellent call quality in areas of good coverage. However, at peak times and in high user areas, the network can become 'overloaded' and you may have to wait before you can get a 'line' to make calls. Dropped calls can also be a problem in hilly terrains and where there are a number of large structures.

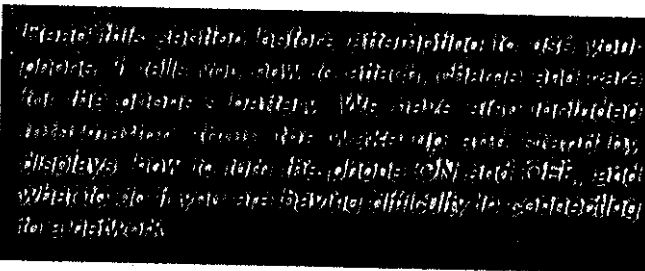
The Digital CDMA Network

- CDMA is a new system which takes advantage of digital technology to provide superior management of the available radio spectrum. Unlike analog and other digital systems, CDMA assigns a unique code to each call then spreads it across a wide segment of the cellular band, enabling a large number of calls to be transmitted at the same time. You are therefore more likely to make a successful call first time, there is less interference and all your conversations are encrypted to prevent 'eavesdropping'. CDMA also offers advanced features such as:

- text messaging
- digital paging
- caller number identifications
- low power transmission significantly increasing talk and stand-by times
- soft hand-off



Getting Started



The Battery	5.1
Fully Charge The Battery	5.1
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Charging the Battery	5.1
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Battery Power Level	5.3
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Switching ON	5.4
Wake-up Display	5.4
Stand-by Display	5.5
Switching OFF	5.6
Power Save Mode	5.6
Network Connection	5.7

The Battery

Fully Charge The Battery

Failure to do this will affect the life of the battery and reduce operating times between recharges. Best battery performance will be achieved after fully charging and discharging the battery two or three times.

Attaching and Removing the Battery

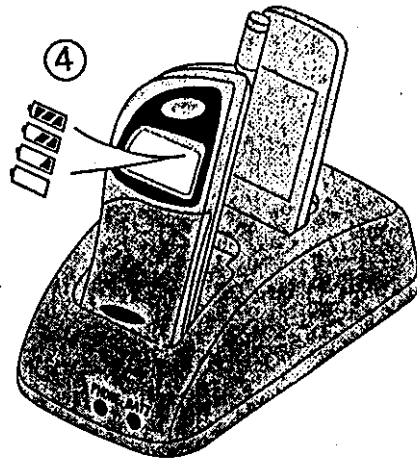
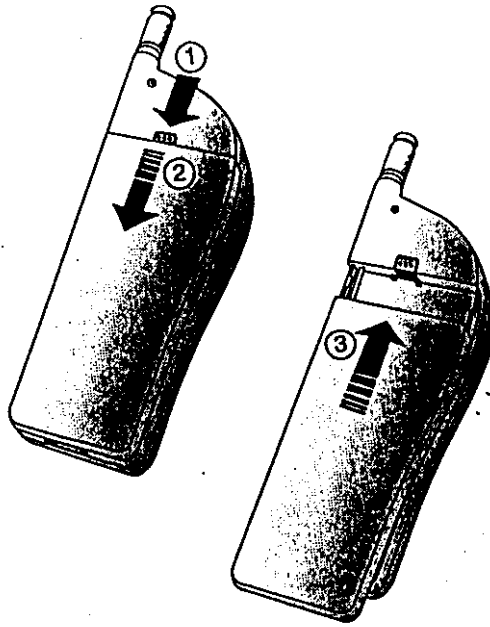
- to remove battery, switch the phone OFF, press the release catch in ① and slide battery downwards ②.
- to fit place battery as shown ③ and slide upwards until the battery clicks into position.

Charging the Battery

- place the phone in the front slot of the charger
- plug the charger into the power supply. A filling battery symbol in the display indicates charging; also a red LED light on the charger indicates charging.
- the battery is recharged when the symbol remains all black ④, this takes approximately 60 mins for the Standard Ni-MH battery or 90 mins for the optional Extended Ni-MH battery. It is normal for the battery, phone and charger to become warm during charging, a green LED light on the charger will indicate charging complete.

WARNING: Charge the battery in a well ventilated area between 0°C and 40°C using the supplied charger. The use of non approved chargers could result in fire or injury through an electrical shock.





P

Battery Performance

Any quoted stand-by or talk times are subject to network conditions.

Battery Power Level

The battery power level is shown in the top right corner of the display when you switch the phone ON. Four levels are displayed from full (all black) to empty.



■ fully charged



■ discharged

Usable Time for Battery

Conditions	Type	Middle Capacity Battery	Large Capacity Battery
Continuous Talk Time		Approx. 120 minutes	Approx. 160 minutes
Continuous Stand-by Time		Approx. 32 hours	Approx. 45 hours

(Talk time and stand-by times are based on use of digital mode and slot mode 2)

- Above times are talk only and stand-by times in normal use shall be lower because a large amount of battery power during talk time conditions shall be consumed.
- Times may vary, depending on the system condition set by base station of Mobile Communication.
- Usable time of battery may vary, depending on usage circumstances such as charge conditions, temperature, user's habit or the location's electric wave conditions.
- Usable time of battery shall decrease over time.

Switching On and Off

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5.4

When the phone is switched ON, the wake-up then the stand-by displays appear. The following pages explain the displayed messages and symbols.

Switching ON

- hold  until the backlight switches ON (you will hear a beep if the key beep is active)

Wake-up Display

- the wake-up display appears briefly after switching ON



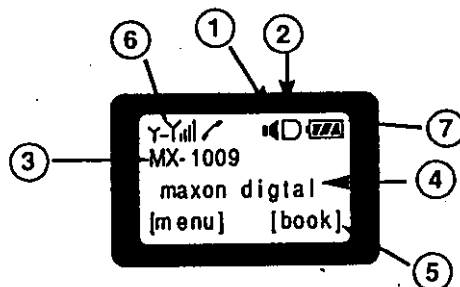
- ① **Banner** - you can change the top line message using the **Banner** menu feature. Refer to Customizing for instructions
- ② **Network Name** - an abbreviation of your current network operator
- ③ **Mobile Number**



①

Stand-by Display

- when the stand-by display appears the phone is ready to make and receive call subject to network coverage (see below). It also provides a starting point to enter the feature menu and phone book



- ① **Ringer Indicator** - if appears the speaker icon you can hear the calling sound.

Ringer Off - overwrites the date or product description when the incoming call ringer is switched OFF (silent or vibrator).

- ② **Network Indicator** - if icon appears you are connected to the CDMA network. If icon appears you are connected to the AMPS network.

- ③ **Banner** - this is the same message that appears on the wake-up display

- ④ Any of the following may be displayed:

Product Description - the message shown (above) appears at power ON when the phone is outside coverage or connected to the AMPS network

Current Date and Time - appears when the phone connects to the CDMA network and remains displayed until power is switched OFF, even if the phone switches to the AMPS network.

- (5) Any of the following may be displayed

Flip off - When  icon appears, it indicates alarm clock is set up.

If  icon appears, it indicates reserved call function is set up.

Flip open - The current soft key appears.

- (6) **Signal Strength & Roaming Status** - displayed as rising black bars in ANT icon (four bars for optimum call quality). Best reception is obtained with the ANTENNA FULLY EXTENDED

Y- ; Roaming Status

- (7) **Battery Power Level** - refer to page 5.3 for details

Switching OFF

- press and hold  until the screen clears (approximately 1.5 seconds)
- the phone must be switched OFF before removing the battery

Power Save Mode

- the phone has an automatic power save mode, press any key except  to return to the stand-by display



Network Connection

The MX-1008 is initially programmed to search for the digital CDMA network each time it is switched ON. If you are in an area of poor CDMA coverage, it will automatically search for the analog AMPS network, enabling you to continue making and receiving calls.

Whilst connected to the AMPS network, the phone periodically searches for CDMA coverage and will switch networks as soon as there is sufficient signal strength.

In areas of known good coverage, you can lock the phone to either network, overwriting the automatic feature, although this is not recommended.

If you are having difficulties in making or receiving calls it could be because the phone is locked to a network with poor coverage in your present location.

- to check for the preferred; if CDMA then Analog; if setting

☐ [menu] ■ **3** ■ **1** (check) ■ ☐ [ok]

- to change settings

☐ [menu] ■ **3** ■ **1** ■ ☐ / ☐ (select) or ☐ [next] ■
[ok] ☐



Making Calls

Before making a call, **FULLY EXTEND THE ANTENNA** then check the stand-by screen for signal strength. If not appears Ant Icon in the top left corner of the display, you cannot make or receive calls.

Call quality can be affected by external conditions. To improve signal strength, please extend the antenna fully.

Manual Calls

- If the country you are operating in uses area codes, they must be included even when making local calls.
- Hyphens are automatically inserted (refer to section 7.2) to make the number easier to read and conform to telephone number patterns used in some countries. Use the  to clear an error.

AREA CODE (if used) ■ NUMBER ■ 

 Icon appears during dialing and the call time is displayed on connection

- to hang up at the end of the call press 

Last Number Redial

- press  to recall the last number dialed, if correct,
- press  again to dial the number.

Auto Redial

- the phone can be set to make up to 5 redial attempts of an engaged (busy) number at a specified time delay between each retry. A tone sounds at each redial and when the call is connected

 [menu] ■ **7** ■ **2** ■  [next] or  /  ■  [ok]

- to stop re-dialing at any time press 



Call List

- calls made, received and scratch pad numbers are stored in a list with the last entered number appearing at the top. Old numbers are automatically deleted when the list is full (10 entries)

- to recall the list and view number details

○ [book] ■ ○ [calls](latest) ■ ▲ / ▼ (search) ■ ○ [view]

- each number is identified by its type when viewed

CALL BY - Incoming call number if available (refer to section 10 details)

LAST NO - Outgoing dialed number

ADDED - number entered during a call. (refer to scratch pad page 6.5)
- missed (unanswered) incoming call if number available (refer to section 10 for details)

- to dial a displayed number on the list press **SEND**

- to copy a displayed number into the phone book press save then follow the normal store procedure, (refer to section 9)

- to clear the list, refer to the Clear Calls feature (Security menu) in section 8

Please refer to section 9 for instructions on how to delete numbers stored in the phone book.

Privacy Mode

- if supported by your service provider, this feature will further encrypt calls made on the CDMA network (when: fEnhanced; fselected)

○ [menu] ■ **7** ■ **5** ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Set Call

- you can set up a telephone number to call at an appointed specific time. At the time set, an alarm will ring and "Reserved Call" shall be displayed on the screen. You then press **SEND** button, and the inputted phone number will dial out.

○ [menu] ■ **7** ■ **4** ■ time input ■ telephone no. input

- selective of reserved call sound ■ ○ [ok]

Emergency Calls

- your national emergency services numbers are stored in a special memory in the phone to enable the calls to be made even when the phone is locked or the restrict feature is set.
- ignore any phone locked or restricted messages and dial as normal. The call should be successful if you are within network coverage and there is sufficient signal strength

EMERGENCY NUMBER ■ 

for example,  ■  ■  ■ 

Answering Calls

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6.4

- when an incoming call is received, the phone rings, visual alert LED flashes, " Incoming Call " appears on the display and vibrator (if fitted and enabled) intermittently turns on.
- to answer the call, fully extend the antenna for best performance then open the Flip to answer.
- during the ring tone, the callers number and name may be displayed if supported by the network (refer section 10 for details)
- to hang up at the end of the call press  or close to Flip

Auto Call Answering

- you can set the phone to automatically answer incoming calls after a specified time

 [menu] ■ **7** ■ **1** ■  [next] or  /  ■  [ok]

WARNING! If you use this feature when the ringer is switched off (set to "silent") you may receive a call without your knowledge.

Missed Calls

- missed (unanswered) incoming calls are entered onto the Call List if the caller's number is available. The phone also displays the message 'Missed (number) Call' and the time of the last missed call if connected to the CDMA network
- to clear the message press  or 



In Call Features

During a call you have the following options:

Earpiece Volume

- to adjust the earpiece volume press the buttons on the side of the phone or  /  on the keypad

Send Own No.

- call own number automatically.

 [menu] ■ **0**

Scratch Pad

-  [save]버튼을 누르면 you can make a note of a number during a call using the keypad. The number will stay on display after the call has ended until another key is pressed
- scratch pad numbers are automatically entered on the Call List and are identified by the word 'ADDED' Refer to page 6.2 to view the list

 [menu] ■ **1**

Voice Mute

- you can switch the phone's microphone OFF (mute voice) during a call to enable a private, 'out of call' conversation

mute voice:  [menu] ■ **2** (MUTE displayed)

mute cancel:  [menu] ■ **2**

Storage of Phone No.

- you can store up to 99 scratch pad messages and telephone numbers in menu memory.

 [menu] ■ **3**

Call Hold

- if the feature is supported by the network, your phone gives you the facility to put the current call on hold, make a second call then switch between the two

SEND (first call held) ■ SECOND NUMBER ■ SEND

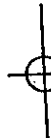
- to switch between the two calls press SEND

- to end both calls press SEND. If one caller ends their call, you will be automatically connected to the other call

Call Waiting

- if the feature is supported by the network, you will hear a soft ringing tone in the earpiece when a second caller is trying to contact you. You can put the current call on hold, answer the new call then switch between the two

SEND (hold call, answer new) ■ SEND (switch calls)



Customising

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This section shows you how to customise your phone for your own use.

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Call Terminate Alert	7.3
Security	7.3



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Customising

Ringer Volume

- you can change the volume of the ring tone or switch it off by choosing the 'silent' or 'vibrator option'.

Key Beep

- the volume of the keypad tones can be changed or switched off ('silent')

○ [menu] ■ 1 ■ 2 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

- or use the volume keys on the side of the handset when out of call (at stand-by display)

○ [menu] ■ 1 ■ 1 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Earpiece Volume

- to adjust the earpiece volume level out of call

○ [menu] ■ 1 ■ 3 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

- or use the volume key on the side of the handset during a call

Backlight

- the backlight can be switched off to save battery power, switched on in poor light conditions or set to automatically switch on for a specified number of seconds each time a key is pressed

○ [menu] ■ 2 ■ 1 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

*Electric Power Saving Function during Daytime
If you select daytime off, the power consumption will be lower as display (LED) & keypad will not light up. Also, the standby stop time of daytime off will vary depending on season.*

Banner

- you can enter your own top line wake-up and stand-by display message

○ [menu] ■ 2 ■ 2 ■ ○ [edit] ■ MESSAGE ■ ○ [ok]

- refer to the "Phone Book" section for help with entering words

Show Time

- the time and date automatically appear on the display when your phone connects to the CDMA network ('if avail.' setting). You can choose not to have this information displayed

○ [menu] ■ 2 ■ 3 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

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7.2

Auto Hyphen

- hyphens appear when you input a number onto the display. This makes long numbers easier to see and also conforms to telephone number patterns in some countries. The feature can be switched on and off

○ [menu] ■ 2 ■ 4 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Version

- the version programmed to the current phone is deleted and displayed.

○ [menu] ■ 2 ■ 5 ■ ○ [ok]

Fade Alert

- the phone can be set to sound a tone when a call is lost due to low signal strength

○ [menu] ■ 4 ■ 1 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Minute Alert

- to help budget your calls, the minute alert can be set to sound a tone 10 seconds before the end of each minute of conversation

○ [menu] ■ 4 ■ 2 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Service Area Alert

- when this feature is switched on, the phone will sound two short tones when moving into another service area or connecting to a different cellular system

○ [menu] ■ 4 ■ 3 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Ringer Type

- you can select one of a selection of Incoming Ringer Alerts or various melodies to suit your taste

○ [menu] ■ 4 ■ 4 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Call Connect Alert

- 통화기 연결되었을 때 경보음 발생 ON or OFF

○ [menu] ■ 4 ■ 5 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Call Terminate Alert

- When the call is connected, an alarm sounds.

○ [menu] ■ 4 ■ 6 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Security

- the phone has several security features to prevent or restrict dialling. Please refer to section 8 for details

The Feature Menu

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This section will help you to get to know the phone's feature menu and shows you how to use the basic operating features.

The Feature Menu	8.1
Menu Controls	8.1
Selecting Feature by Number	8.1
Selecting Feature by Search	8.1
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World Time Function	8.2
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All Calls	8.3
Security Menu	8.4
Lock Mode	8.4
Restrict	8.4
New Code	8.4
Emergency	8.5
Clear Call	8.5
Send PIN	8.5
EVRC Option	8.5



The Feature Menu

All the operating features of the MX-1008 are stored in the easy to use menu. A feature can be selected direct via its feature number or you can work through the menu, pressing the number of the feature you want at each level.

Menu Controls

-  [menu] - enter the feature menu
-  - search through the groups, features and feature options (as an alternative, you can use the volume keys on the side of the phone)
-  [ok] - save displayed option
-  - go back one step
-  - exit the feature menu without saving

Selecting a Feature by Number

 [menu] ■ FEATURE NUMBER ■  [next] or  ■  [ok]

■ for example, to change the ringer volume:

 [menu] ■ 1 ■ 1 ■  [next] or  ■  [ok]

Selecting a Feature by Search

 [menu] ■ GROUP NUMBER ■  /  ■  [ok]

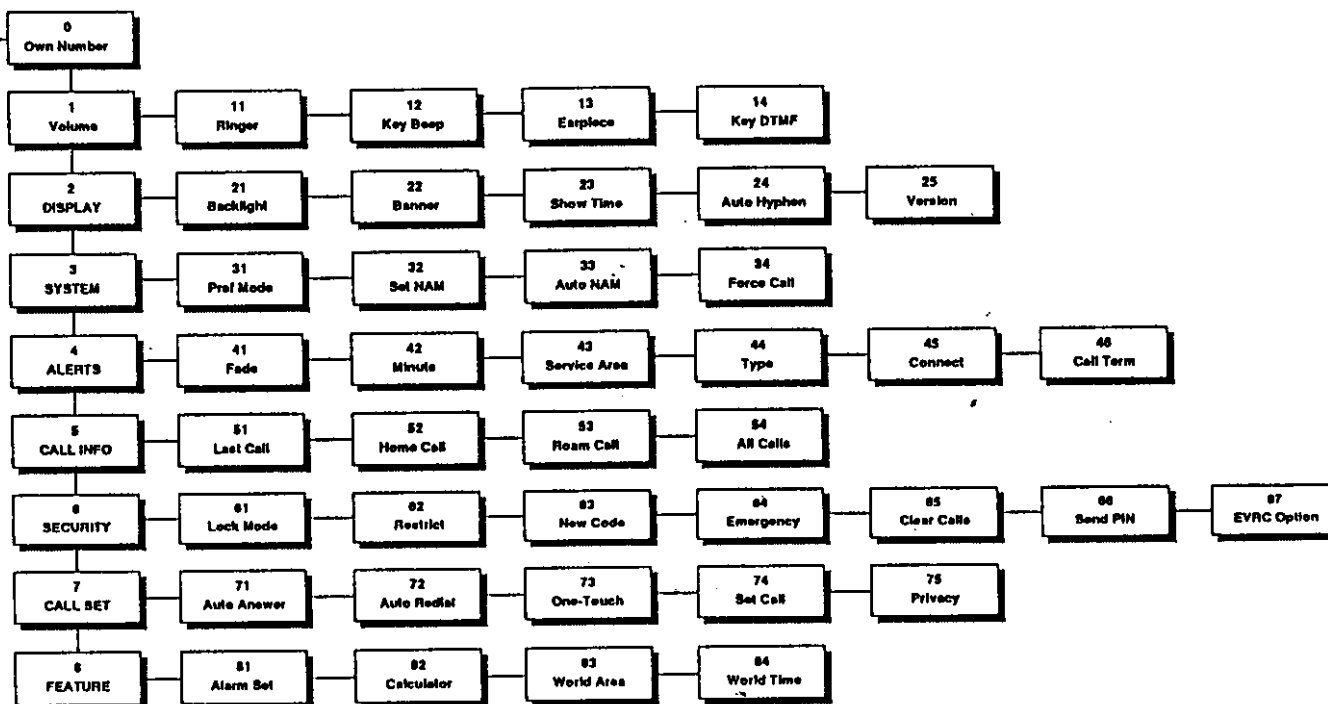
FEATURE NUMBER ■  [next] or  /  ■  [ok]

Note: to save a feature option you must press  [ok] or to exit without saving, press .

Feature Menu Structure



[menu]



Security features ([menu] 6) can only be accessed after entering the lock code.



Setting Alarm Function.

- After setting the alarm clock, the alarm will ring at designated alarm time. The directions below will inform you of the alarm time set.

○ [menu] ■ 8 ■ 1 ■ time ■ ○ [set]

■ ○ [next] or ▲ / ▼ ■ ○ [ok]

Calculator Function

- Can do simple four rules of arithmetic up to 9th digits including a decimal point. ○ [menu] ■ 8 ■ 2

- Input figures for calculation.

Ex) $8,500 \div 55 = 154.545454$

① Input 8,500

② If you press key " $\div$ " shall be selected.

③ Input 55

④ Press ○ [=]

To terminate calculator function, press  key or fold the world.

International Dialling

- The telephone shows country code for 29 major countries around the world.

○ [menu] ■ 8 ■ 3 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]

World Time Function

- This function is available for checking the time in major 33 major cities around the world.

○ [menu] ■ 8 ■ 4 ■ ○ [next] or ▲ / ▼ ■ ○ [ok]



Call Info Menu

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8.3

Last Call

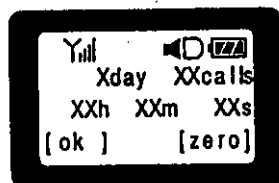
- to display the duration of the last outgoing call in minutes and seconds

○ [menu] ■ 5 ■ 1 ■ ○ [ok]

Home Calls

- the phone has a resettable timer which displays the total number of calls and the cumulative call time on the home network since the last reset

○ [menu] ■ 5 ■ 2 ■ ○ [ok] or ○ [zero]



Roam Calls

- the phone has a second resettable timer which will display the total number of calls and the cumulative total for calls made on a second (roam) network

○ [menu] ■ 5 ■ 3 ■ ○ [ok] or ○ [zero]

All Calls

- to display the total number of calls and the total call time since the phone was registered on the network

○ [menu] ■ 5 ■ 4 ■ ○ [ok] or ○ [zero]

Security Menu

The security features of your phone are protected by a lock code which is initially set to 0000 or the last four digits of your phone number. To prevent other people using the security features, you should change the code to a four digit number of your choice.

Emergency calls can still be made when the phone is locked or the security feature is set.

Lock Mode

- set the phone lock to prevent unauthorized calls. You can choose to lock the phone now (remains locked until the lock code is entered), at power up (locks each time the phone is switched on until the feature is cancelled) or never. When locked, the phone can only make emergency calls and calls to two other 'emergency' numbers of your choice (refer to Emergency feature)

○ [menu] ■ 6 ■ LOCK CODE ■ 1 ■ ○ [next] or

◆ / ◆ ■ ○ [ok]

- to unlock the phone, enter the lock code at the display prompt

Restrict

- when set, this feature only allows calls to numbers stored in locations 1 to 9 in the phone book

○ [menu] ■ 6 ■ LOCK CODE ■ 2 ■ ○ [next] or

◆ / ◆ ■ ○ [ok]

- refer to section 9 for phone book dialing instructions

New Code

- to change the lock code (4 digit number)

○ [menu] ■ 6 ■ LOCK CODE ■ 3 ■ NEW CODE ■

○ [ok] ■ RE-ENTER NEW CODE ■ ○ [ok]



Emergency

- the phone is programmed with three emergency numbers for your country which can be changed
- to add a new number

 [menu] ■ **6** ■ LOCK CODE ■ **4** ■  [next] or  / 

(select 'empty' location) ■  [edit] ■ EMERGENCY

NUMBER ■  [ok] ■ 

- repeat the procedure when you want to change or delete your numbers

Clear Calls

- for security, you may wish to clear the call list (refer to page 6.2)

 [menu] ■ **6** ■ LOCK CODE ■ **5** ■  [ok]

Send PIN

- as a security check, your operator or service provider may ask you to send the phone's PIN before allowing calls. Switching the 'Send PIN' prompt on allows you to send the PIN at the right time by simply pressing 

 [menu] ■ **6** ■ LOCK CODE ■ **6** ■  [next] or  / 

(select 'prompt') ■  [ok]

EVRC Option

- EVRC is the abbreviation of Enhanced Variable Rate Code (The compressing methods to send the digital signal changed from a voice) You can make a phone-call with enhanced voice quality in the EVRC mode.

 [menu] ■ **6** ■ LOCK CODE ■ **7** ■  [next] or  / 

(select 'prompt') ■  [ok]

The Phone Book

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Everything you need to know about the phone book has been grouped together in this section, from storing names and numbers to recalling and dialling.

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The Phone Book

The MX-1009 has a large phone book memory. It can store 99 telephone numbers of up to 32 digits, each with a 16 character name. Recalling of entries is by location number, name or the initial digits of the telephone number.

Storing Information

- each dialling key is used to enter several characters (see below). For name entry, repeatedly press the key that shows the character that you want until it appears on display. Wait for the cursor to move before entering the next character
- the telephone number can include * and #, and numbers can be used in the name
- when you need a space in a name, press  once
- to change from upper (A) to lower (a) case characters press  [X->x]. Press  [x->X] again to change back
- use the  key to clear errors, a short press for the last character or press and hold for the complete entry. A long press of  will return the phone to the stand-by screen. To correct individual characters, use the  (left) and  (right) keys to position the cursor over the character to change then enter the new character

1	1	7	PQRS 7 pqrs 7
2	ABC 2 abc 2	8	TUV 8 tuv 8
3	DEF 3 def 3	9	WXYZ 9 wxyz 9
4	GHI 4 ghi 4	*	*
5	JKL 5 jkl 5	0	0
6	MNO 6 mno 6	#	#

- if you need special character during name entry press  ( or )

Storing a Number and Name

enter the telephone number

NUMBER ■  [save]

enter the name

NAME ■  [ok]

accept the displayed location save

 [ok]

OR enter own location  [next] or NUMBER ■  [ok]

make the number appear at recall  [ok]

OR make the number secret  [next] ■  [ok]

an acceptance message to confirm storage will briefly appear followed by the status of the memory then the phone returns to stand-by

Press  to cancel number and name storage at any time before the last  [ok] press.

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9.2

Help with Storing

- **name:** if you don't want to include a name, press save twice after entering the telephone number
- **location:** you can accept the next available location displayed or enter a two digit location of your own. Entries can also be stored in groups of 10 for example; place personal numbers in locations 20 to 29 and business numbers in locations 30 to 39. To store in groups simply enter the group number at the 'location' prompt (eg 2 for 20 to 29 or 3 for 30 to 39) then press [ok]  to accept the first available location in the group or enter the second digit of your choice
- **overwrite protection:** if you choose a location which is already used 'Overwrite?' and the existing entry appears. Press  [ok] to overwrite (store new entry) or press  [quit] or  then enter a new location
- **secret numbers:** if you make an entry 'secret' The telephone number won't be displayed when recalled, only the name appears. You can make a maximum of 10 secret entries



Recalling a Number and Name

There are 4 recall options

■ to recall by location number

☐ [book] ■ LOCATION NUMBER

■ to recall by name

☐ [book] ■ ☐ [name] ■ NAME ■ ☐ [ok](check)

■ ☐ [view]

■ to recall by telephone number

NUMBER ■ ☐ [find] (check) ■ ☐ [view]

■ to recall by search

☐ [book] ■ ☐ / ☐ ■ ☐ [view]

Press ☐ to exit the data

Help with Recalling

■ **name:** when recalling by name you only need to enter enough letters to identify the name, for example; if you only have one entry with the initial letter 'J', just enter 'J' to look up John

■ **telephone number:** this is just like the name search feature, you only have to enter enough digits (a minimum of 3) to identify the number

■ **options:** after recall, you have a choice:

- to edit press ☐ [edit]
- to erase press ☐ [erase]
- to end press ☐ [END]

To Edit

■ recall the entry, press ☐ [edit] then follow the storage instructions. Press ☐ at each option if you don't want to make changes

To Erase

- recall the entry, press [erase] ■ [ok]

You have to enter the phone's lock code before you can erase a 'Secret' entry. If you don't know what the lock code is, refer to page 8.4

To Add a Prefix (prepend)

- when a number is recalled you can add digits to the beginning, for example, an area code. The prefix is temporary and does not edit the stored number
- recall the number, enter the prefix ('PREPENDING') then press to dial

Phone Book Dialling

These are 3 dialling options:

- to dial a recalled number
- to dial from the phone book list
 [book] ■ / ■
- to speed dial

LOCATION NUMBER ■

One-Touch Dialling

- if you enable this feature you can dial a stored number by simply entering the location number (hold the second digit until ' / ' appears)
- to activate the feature
 [menu] ■ 7 ■ 3 ■ / ■ [ok]



Network Features

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In addition to making and receiving calls, the digital GSM network offers other advanced benefits detailed in this section. Some of the features may not be supported by your network operator or by a foreign network with roaming.

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DTMF Signaling

The digit, * and # keys on your phone generate a unique tone when pressed. These are known as DTMF tones and are used to operate advanced facilities such as home banking, voice mail and paging services. A series of numbers are normally required to operate the facility, for example; a contact number, security PIN and option code. You can construct a pause dial sequence on the display then send the numbers at once or automatically. A sequence can be up to 32 digits long (a pause counts as one digit) and can be stored in the phone book as a normal number.

Constructing a Pause Dial Sequence

- each number in a sequence must be separated by one of the following:

hard pause 'h' - this stops dialling after the first number, you'll need to press  at the facility request to send each number in the sequence

time pause 't' - the phone will insert a 2 second pause between dialling all the numbers in the sequence. This setting is particularly useful if you regularly dial the same facility since you won't need to hear the facility prompts

- you also have the option to insert hyphens in long numbers to make them easier to read. The hyphens are ignored during dialling so you still need to input pause commands
- to construct a sequence

NUMBER ■  ■ 1 or 2 or 3 ■ NUMBER

don't end the sequence with a pause

Normal and Long DTMF Tones

- the phone can generate tones of different duration according to the needs of the facility
 - normal - a short burst tone of about one tenth of a second which is sufficient to operate most devices
 - long - the tone lasts for as long as the key is pressed (use when inputting each number at the facility request, not as a pause dial sequence)
- if you regularly use a paging service we recommend that you leave the phone on the normal setting
- to change settings
 - [menu] ■ 1 ■ 4 (key DTMF) ■ ○ [next] or  / 
 - ○ [ok]

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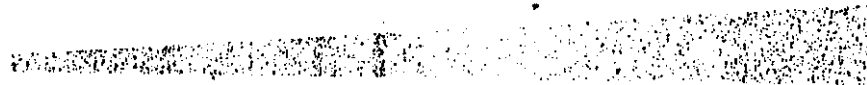
10

10.2

Calling Number Identification

This feature enables you to see a caller's telephone number on the display during the ringing tone. You'll then have the option to answer or reject the call. The caller's name will also appear if their name and number are stored in the phone book.

Calling number identification only works when the caller is using a network which supports the service. They may also have the facility to withhold their number from being transmitted.



Text and Voice Mail Messages

Your phone has the ability to receive short text messages when switched ON. The messages are automatically stored in the phone's memory and are retained even when the phone is switched OFF. Whilst reading a message, you can dial any callback number by simply pressing .

The text and voice mail services are normally subject to subscription charges, check with your service provider regarding their availability.

Receiving Messages

- when a new message is received, 'MESSAGE' appears in the top right corner of the display, you'll hear 5 short beeps and the message stays till cleared.
- if a message is marked Urgent by the sender, 'MESSAGE' flashes and an asterisk (✱) appears either side of the message header

Memory Capacity

- your phone can store up to 20 messages, each containing on average of 80 characters.
- the phone will alert you when the amount of available message memory is low. You should erase old messages which are no longer needed to avoid running out of memory.



Text Messages

Text messages are sent directly to your phone and (subject to network support) may contain a time stamp, a callback number and the name of the caller (if the callback number matches a phone number stored in the phone book).

Reading Messages

- to read new text messages

press  (number of new messages) ■  [message] ■

 [save] ■ **2**

- messages marked urgent appear first followed by new messages in received order. The phone automatically scrolls the text page by page, use the  or  keys to scroll line by line

- at the end of each message you can erase or quit

erase:  [erase] view :  [quit]

- if the message contains a callback number you can dial it direct



- if there are no new messages, the phone will display a list of previously stored messages

- a list of stored messages will appear. Use the  and  keys to select the message you want then erase or recall the message

erase:  [view] recall:  [erase] ■  /  or Auto

display ■  [quit]

- whilst viewing a message you have the same callback options as for a new message. To return to the list press 

Voice Mail Messages

If you have a voice mailbox, the service will send a message to your phone each time a new message is received. You must call your voice mail service to listen to these messages.

Reading Messages

- to read a new voice mail alert message

press  ■  ■ **1**

- at the end of the message you can call your mailbox direct if the message contains the mailbox callback number

 [calling]

- to exit the voice mail feature press  [quit]

Voice mail message indicator shows you have a voice message. The actual voice message is at the service provider's message center (in the phone). As the provider will periodically send voice mail indication the number of voice message indications does not necessarily correspond to the actual number of voice messages. This is because one voice mail indication may include more than one voice message.

Deleting Message

- If you press  ■  [read] ■ **3**, the contents of stored letter message and voice message shall be deleted.

Sending Message

① Press  ■  [send] ■ **1**

② Enter a message and press  [ok]

If you press  [list], you can send the prepared message immediately.

If you press , you can input symbols not displayed on the keypad.



- ③ To store the prepared message, press **○** [yes]
- ④ Press **○** [ok] after you input phone No. to be receive the message.
- ⑤ Press **○** [ok] after you input phone No. to be received.
At the first stage, phone No. appears automatically.
If you'd like to get the phone with different phone No, only input the phone No. with which you want to get.
- ⑥ Press **○** [send]
You can restart from No.2 if you can press **○** [modify]
- ⑦ If you select and press the transmission speed you prefer, the message shall be sent.
In case you fail to transmit the message, resend it.

Sending stored message

- ① Press **◀ ■ ○** [send] **■ 2**
- ② Check the message which you are sending in the list and press **○** [view]
- ③ Press **○** [ok] if the message you are sending is correct.
- ④ "Sending a message" will be displayed after pressing [ok] per step 3

System Selection

You may have the option to use your phone on two different cellular systems and register with up to four service providers. If this is the case, you can specify which system and which service provider to use in a particular area.

Preferred Service Provider

- each service provider assigns a unique mobile number for your phone (this is known as the NAM). You can specify which mobile number (NAM) your phone will use in a particular cellular area

[menu] ■ **3** ■ **2** ■ [next] or / ■ [ok]

Auto NAM

- switching this feature ON will enable your phone to change service providers if the phone loses service in the current cellular areas

[menu] ■ **3** ■ **3** ■ [next] or / ■ [ok]

Network Selection

Your phone is designed to operate on the digital CDMA and analog AMPS networks. Whilst connected to the preferred CDMA network ('DIGITAL' displayed) you can force the phone to attempt a call on the analog network. This feature can be useful if you are operating in an area of low digital signal strength (ie you have difficulty in making calls or a call has been dropped) and you want to try the other network without changing the phone's settings.

As an alternative to a forced call, you can change the preferred network mode.

Preferred Mode

- the preferred mode is factory set to 'CDMA' then Analog? You can change this to one of the other options listed below but this is not recommended as you may lose the advantages of the CDMA network and experience difficulty in making and receiving calls. The preferred operating mode options are:

CDMA then Analog
Analog only
Analog then CDMA
CDMA only

- to change the preferred mode

○ [menu] ■ 3 ■ 1 ■ ▲ / ▼ ■ ○ [ok]

This facility may not be available on all networks. If in doubt please consult your network provider.

Forcing a Call

- to force a call on the analog network

○ [menu] ■ 3 ■ 4 ■ NUMBER ■ SEND

- one attempt will be made on the analog network to connect the call



Troubleshooting

The Phone Will Not Switch ON

- the phone has shut down because the battery power level is too low to make calls. Fully recharge the battery

Dialled Calls Are Not Processed

- the phone is locked, the restrict feature is set or you have not pressed the  key.

Display Messages

During operation your phone may display an error message as follows:

'FEATURE CURRENTLY UNAVAILABLE'

- you are attempting to select a feature that is only available during a call or the feature is not supported by your network operator/service provider or by the phone.

'ENTER THE LOCK CODE'

- the phone lock has been set, you must enter the four digit lock code before you can proceed with your call attempt (refer to page 8.4)

Glossary

CDMA	- Code Division Multiple Access, preferred digital cellular system
AMPS	- Advanced Mobile Phone System (an analog cellular system)
NAM	- Number Assignment Module, the system identification for your mobile number. Some countries may allow you to have more than one mobile number, in which case they would be identified by NAM1, NAM2 etc
HOME NETWORK	- the service provider that issues your mobile number (NAM 1)
ROAM NETWORK	- a second service provider that offers service when away from the home network
SMS	- Short Message Service
VMS	Voice Mail Service

