

TalkTime Max 962 Owner's Manual

ATTENTION

Before Using the Phone:

It is necessary that you **CHARGE** your phone battery fully before attempting to make or receive a call.

Battery Disposal:

DO NOT PLACE USED BATTERIES IN YOUR REGULAR TRASH. THIS NICKEL-CADMIUM (Ni-Cd) BATTERY MUST BE COLLECTED, RECYCLED OR DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER.



Battery Recommendations:

The NEC TalkTime 900 Series cellular phone you have purchased was designed to deliver quality performance and provide you with years of use. In order to maintain optimum performance, NEC recommends that only NEC Authentic Accessories be used with the TalkTime phones.

The incineration, landfilling or mixing of nickel-cadmium (Ni-Cd) batteries with municipal solid waste stream is **PROHIBITED BY LAW** in most areas.

Return this battery to a federal or state approved nickel-cadmium (or "sealed lead") battery recycler. This may be where you purchased the battery or a local seller of automotive batteries. In all states, call 1-800-637-5917, except Minnesota if further disposal information is required. In Minnesota, call 1-800-225-PRBA.

Contact local waste management officials for other information regarding the environmentally sound collection, recycling and disposal of this battery.

In-Vehicle Operation:

For In-Vehicle Operations, the phone's battery must be charged, since In-Vehicle Adapter Kits serves only as a trickle battery charger.

**IMPORTANT
READ THIS INFORMATION BEFORE
USING YOUR HAND-HELD PORTABLE
CELLULAR TELEPHONE**

First introduced in 1984, the hand-held portable cellular telephone is one of the most exciting and innovative electronic products ever developed. With it you can stay in contact with your office, your home, emergency services, and others.

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

Your cellular telephone is a radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 894 MHz and employs commonly used frequency modulation (FM) techniques. When you use your phone, the cellular system handling your call controls the power level at which your phone transmits. The power level can range from 0.006 of a watt to 0.6 of a watt.

Exposure to Radio Frequency Energy

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

The design of your phone complies with this updated Standard. Of course, if you want to limit RF exposure even further than the updated ANSI Standard, you may choose to control the duration of your calls and operate your phone in the most power efficient manner.

Efficient Phone Operation

For your phone to operate at the lowest power level, consistent with satisfactory call quality, please observe the following guidelines:

If your phone has an extendable antenna, extend it fully. Some models allow you to place a call with the antenna retracted. However, your phone operates more efficiently with the antenna fully extended.

Hold the phone as you would any other telephone. While speaking directly into the mouthpiece, position the antenna up and over your shoulder. Do not hold the antenna when the phone is "IN USE". Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

Antenna Care and Replacement

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Replace a damaged antenna immediately. Consult your manual to see if you may change the antenna yourself. If so, use only a manufacturer approved antenna. Otherwise, take your phone to a qualified service center for repair.

Use only the supplied or approved antenna. Non-approved antennas, modifications, or attachments could impair call quality, damage the phone, and violate FCC regulations.

Driving

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

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

Electronic Devices

Most modern electronic equipment is shielded from RF energy. However, RF energy from cellular telephones may affect inadequately shielded electronic equipment.

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

Consult the manufacturer of any personal medical devices (such as pacemakers, hearing aids, etc.) to determine if they are adequately shielded from external RF energy.

Turn your phone OFF in health care facilities when any regulations posted in the areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Aircraft

Turn your phone OFF before boarding any aircraft.

- * Use it on the ground only with crew permission.
- * Do not use it in the air.

To prevent possible interference with aircraft systems, Federal Aviation Administration (FAA) regulations require you to have permission from a crew member to use your phone while the plane is on the ground. To prevent interference with cellular systems, FCC regulations prohibit using your phone while the plane is in the air.

Children

Do not allow children to play with your phone. 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 phone, or make calls that increase your telephone bills.

Blasting Areas

To avoid interfering with blasting operations, turn your unit OFF when in a “blasting area” or in areas posted: “Turn off two-way radio”.

Construction crews often use remote control RF devices to set off explosives.

Air Bags

An air bag inflates with great force. DO NOT place objects, including both installed or portable wireless equipment, in the area over the air bag or in the bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Potentially Explosive Atmospheres

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

Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include fueling areas such as gas stations; below deck on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

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

Vehicles using 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: Publication Sales Division.

PACEMAKER/ICD's

Research sponsored by the Wireless Technology Research, LLC (“WTR”), indicates that some wireless telephones cause interference with pacemakers. Accordingly, NEC America endorses the following recommendations issued by the WTR:

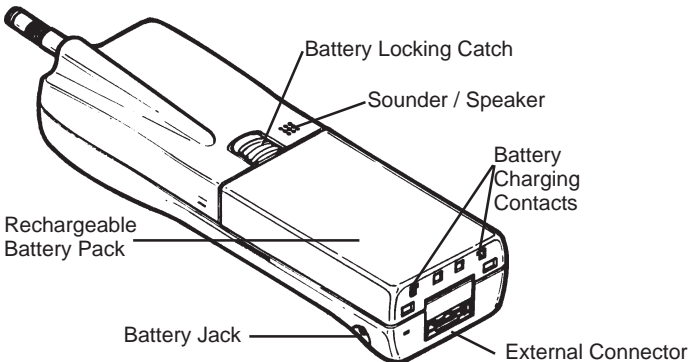
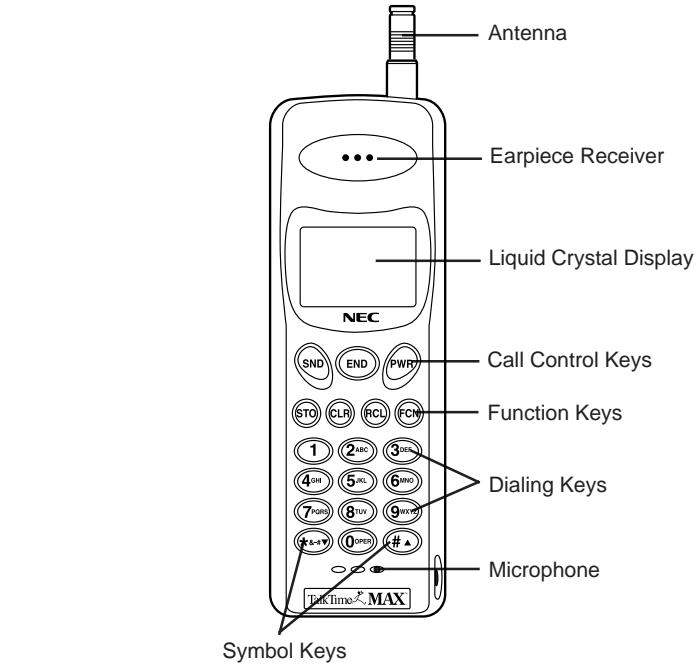
Wireless phones should be kept at a safe distance from a pacemaker. Existing data indicate that the greater the distance between a pacemaker and a wireless phone, the less risk of interference. These data further indicate that six inches is the proper separation distance for minimal risk.

Practical steps to achieve this separation distance include:

- The wireless telephone should not be placed over the pacemaker, such as in a breast pocket, when it is in the "ON" position. (A phone is "ON" when power is being supplied to the telephone by the battery).
- The phone should be used at the ear opposite the pacemaker.

Note: There is nothing in the comprehensive data to suggest that bystanders with pacemakers would be at risk of interference from others who are using wireless phones.

CONTROLS AND FEATURES



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GETTING STARTED

Your phone is powered by a rechargeable battery.

A new battery must be fully charged before being used for the first time.

If left unused, a fully charged battery will discharge itself in about a month. Store batteries uncharged in a cool, dark, and dry place.

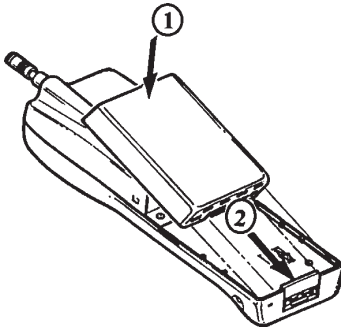
The battery pack is a sealed unit with no servicable parts inside. Do not attempt to open the case.

WARNING: Use only NEC approved batteries, antennae and chargers. The use of any other types will invalidate any approval or warranty applying to the telephone.

INSTALLING AND REMOVING THE BATTERY

To Install the Battery:

1. Insert the bottom of the battery into the base of the phone.
2. Fasten it to the phone by pressing slightly downwards on the battery until the locking catch snaps into place.

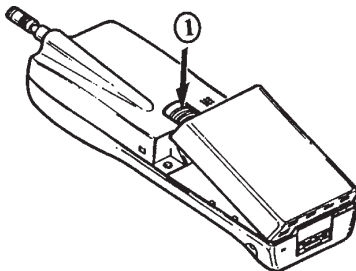


3. Make sure the battery is properly installed.

To Remove the Battery:

Remember to switch the power off before removing the battery.

1. Slide the locking latch located at the top of the battery upward and gently pull the battery away from the phone.



THE BATTERY CHARGE INDICATOR

The Battery Charge Indicator can be accessed by pressing the [FCN] key after power has been applied to the phone. The display screen indicates the battery charge level ranging from E to F. E representing low battery and F representing full battery.

When the battery charge falls to a preset level the phone displays a warning message; **RECHARGE BATTERY**, and an audible double beep will sound 6 times at 10-second intervals and then automatically turn itself off.

E >>>> F	Mon
F C N	
NAM-1	
1234567890	

■ ■ ■ ■ ■ ■
RECHARGE
BATTERY

CHARGING AND RECHARGING THE BATTERY

Charging the battery can be accomplished two ways.

(A) By direct connect of the AC Adapter to the charging jack of the phone.

(B) By placing the phone into the charging stand.

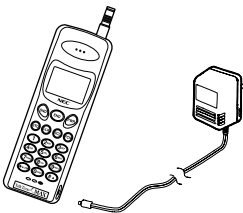
(A)

1. Plug the AC Adapter into a standard 110V AC outlet.
2. Insert the DC plug into the phone battery jack.
3. With power on, display shows:

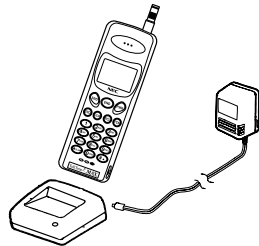
■ ■ ■ ■ ■ ■
Charging
12:00 am
Home

(B)

1. Plug the AC Adapter into a standard 110V AC outlet.
2. Insert the DC plug into the charging stand jack.
3. Place the phone in the charging stand.



(A)



(B)

Note: Recharging of the battery usually takes approximately 10 hours.

A new battery must be fully charged before being used for the first time.

Batteries last longer and perform better if allowed to discharge fully at least once a week. You can do this by leaving the phone switched on overnight, or until the message **RECHARGE BATTERY** is displayed and the phone shuts itself off.

NOTE: If the battery is too hot or cold, charging will be interrupted until the battery reaches a normal temperature.

DISPLAY INDICATORS



Shows cellular signal strength.

CLOCK ALARM

Indicates clock alarm is on.



LOCK

FL-Full Lock

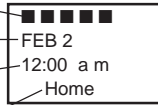
PL-Partial Lock

Received Signal Strength Indicator

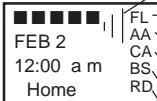
Current Date

Current Time

Service Area Indicator



Clock Alarm Indicator



LOCK Indicator (FL)/Voice Mail Indicator (VM)

Automatic Answer Indicator

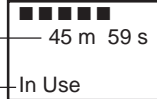
Call-Alert/Radio Mute Indicator

Battery Save Indicator

Repeat Dial

Talk Time of call in progress

In Use Indicator



SPECIAL FEATURE INDICATORS

AA-Automatic Answer

CA-Call Alert

RM-Radio Mute

BS-Battery Save

RD-Repeat Dial

SERVICE INDICATOR

Home

Roam

No Svc

In Use

Mute

CURRENT TIME

Shows current time

CURRENT DATE

Shows current date

TALK TIME

Shows time of call in progress

QUICK REFERENCE GUIDE

Turn on/off

Press and hold **PWR**.

Make call

Key in number, press **SND**.

End call

Press **END**.

Answer call

Press **SND**. (Any key if Any Key Answer is ON FCN 53.)

Clear digit

Press **CLR** briefly.

Clear display

Press **CLR** and hold.

Last number redial

Press **SND**.

Adjust volume

Press **FCN + #** or **★** hold.

The Memory

Store a phone number	Key in number(and/or name). Press STO (Hold). The number is stored in the first empty memory location.
Speed Dialing	Key in the number of the memory location. Press SND .
Scan through memory	Press RCL + 0 + 1+ # or ★
Scan for a name	Press RCL + # or ★

The Menu

Enter menu	Press and hold FCN .
Scroll	Press # or ★ ,....
Select function	Press flashing menu number (1)(2)...
Scroll	Press # or ★ ,....
Select status	Press RCL .
Shortcut facility	Press FCN . Press the number of the function.

List of Menu Functions

TOTAL TIME Home, Roam	FCN + 1
ALARM CLOCK On, Off, Alm	FCN + 2
ALPHA TAG Names	FCN + 3
TONE FUNCTION Alert, Escalating, DTMF, Call, Ring	FCN + 4
CALL PROCESSING Auto Ans, Battery save, Any key answer, Sys Sel, Nam select, One touch, Language, Backlight	FCN + 5
LOCK FUNCTION Time stamp, Auto lock, Fixed dial, End to End, Memo lock, Temp lock, Initialize, Total time, Wake up msg, Message clear	FCN + 6
DATE AND TIME Time, Date, Year	FCN + 7
EXT CONTROL Call Alert, Radio Mute	FCN + 8
MUTE CONTROL	FCN + 9(Hold)
PAUSE DIAL	FCN + 0 + 0
AUTO PAUSE	FCN + 0 + 1
MEMORY LINK	FCN + 0 + 2
FULL LOCK	FCN + #
PARTIAL LOCK	FCN + ★
AUTOMATIC DIALING Redials last number sent	FCN + SND
RING TONE VOLUME Off, Min, Low, Mid, Max	FCN + 4 + 5
HIDDEN DIGITS	FCN(Hold)

OPERATION OF THE PHONE

- 1) Press the **PWR** key and hold it for at least 2 seconds.

The phone will carry out a short self-test sequence, then briefly display your wake-up message.

- 2) When the **RSSI Indicator, Date and time and Home indicator** appears on the display, the phone is ready for use.

If **NO SVC** appears it means that you are outside the cellular service area and the network cannot serve you.

A cellular phone can only send and receive calls when it is switched on.

- 3) Press the **PWR** key and hold it for at least 2 seconds to switch the phone off.

PLACING A CALL

Fully extend the antenna before sending or receiving a call.

Note: Push in the antenna when you are not using the phone.

You can use the phone without extending the antenna in a good coverage area.

- 1) Key in the number (**include the area code if you're making a long distance call**).

If you make a mistake, press the **CLR** key to delete the last keystroke; or to clear the whole display, press and hold the **CLR** key.

- 2) The number will appear on the display.

- 3) Press **SND**.

- 4) The **IN USE** indicator will appear, and the number will disappear from the display. The call timer will appear and count.

- 5) Lift the phone to your ear, and wait until your call is answered.

- 6) When you have finished the call, press **END**.

If the message **NO SVC** appears, you are outside the cellular service area.

If lock indicators (**FL**)(**PL**) appears on the display, your phone has been electronically **LOCKED** (see **Locking the Phone**). You can still make emergency calls when the phone is locked.

RECEIVING A CALL

- 1) When there is an incoming call, the phone rings, and the **CALL** message flashes on the display.

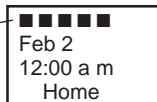
If the ringing tone has been switched off-the flashing of the display and keypad will alert you of an incoming call.

- 2) Press **SND** (Any Key if Any Key Answer has been turned on) and lift the phone to your ear.

- 3) When you have finished your conversation, press **END**.

If you don't answer the call, the **CALLED** message will remain on the display (showing that someone has tried to phone you). Press **CLR** key to clear the display.

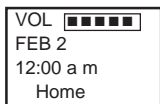
Received Signal Strength Indicator



SIGNAL STRENGTH

The quality of your call depends on the strength of the cellular signal in your area. The phone displays current signal strength as a series of bars on the left side of the display screen. The more bars, the better the signal. If the signal is poor, try moving the phone slightly to improve reception. If you are using the phone in a building, it may be necessary to move near a window, or outdoors for better reception.

VOLUME KEYS

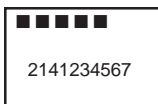


The earpiece and key pad volume can be controlled by the volume keys **FCN ★** or **FCN #** (Hold). The volume level is shown on the display as a series of bars.

LAST NUMBER REDIAL

The last number dialed can be redialed automatically without re-entering it. **(The number can still be retrieved even if the phone has been switched off and back on.)**

- 1) With the display clear, press **SND**.
- 2) The number you last called will appear on the display and is automatically redialed.



Last number redial can also be used from the memory;

- 1) Press **RCL + 0 + 0**.



- 2) Press **SND** to make the call.

SPEED DIALING

The phone dials quickly by recalling phone numbers from memory using the memory location number and the **SND** key.

- 1) Press **Memory Location Number** (i.e.12)



- 2) Press **SND**.



Note: Name associated with the memory location you have requested will not be shown.

THE MENU FACILITY

The menu allows you to operate or check the setting of certain features. Although the menu method can take longer than the alternative shortcut method, it is often easier to remember.



1) Press **FCN** (Hold).

2) The display will read **FCN 1 Total Time**. Use **#** or **★** to step forward or backward through the list of functions available. Press the flashing number when the desired function is displayed. Use **#** or **★** to step through the list of functions available. Press **RCL** to set the new status(**the one which is displayed**).

3) Use the **CLR** key to exit the menu function.

MENU SHORTCUTS

Each Menu function can also be controlled by a shortcut; By using the shortcut you can get to the function you want to change or check without scrolling. To activate the shortcut function simply press **FCN** followed by the shortcut number, (eg. **FCN 5 + 1** for Auto Answer).

The menu functions available are:

Menu Function/ Description	Shortcut	Menu Function/ Description	Shortcut
Total Time	FCN + 1	Lock Code Function	FCN + 6
Alarm Set	FCN + 2	Time Stamp	FCN + 6 + 1
Character Entering	FCN + 3	Auto Lock	FCN + 6 + 2
Tone Function	FCN + 4	Fixed Dial	FCN + 6 + 3
Alert Set	FCN + 4 + 1	End to End	FCN + 6 + 4
Escalating Tone	FCN + 4 + 2	Memo Lock	FCN + 6 + 5
Long DTMF	FCN + 4 + 3	Temp Code	FCN + 6 + 6
Call Tone	FCN + 4 + 4	Initialize	FCN + 6 + 7
Ring Tone	FCN + 4 + 5	Total Time	FCN + 6 + 8
Call Processing	FCN + 5	Wake Up Message	FCN + 6 + 9
Auto Answer	FCN + 5 + 1	Message Clear	FCN + 6 + 0
Battery Save	FCN + 5 + 2	Clock Set	FCN + 7
Any Key Answer	FCN + 5 + 3	External Control	FCN + 8
System Select	FCN + 5 + 4	Mute Function	FCN + 9
Dual NAM	FCN + 5 + 5	(Mic Mute)	FCN + 9 Hold
One Touch	FCN + 5 + 7	(Full Mute)	
Language	FCN + 5 + 8	Pause Dial	FCN + 0 + 0
Backlight	FCN + 5 + 9	Auto Pause	FCN + 0 + 1
		Memory Link	FCN + 0 + 2
		Full Lock	FCN + #
		Partial Lock	FCN + ★
		Automatic Dialing	FCN + SND
		Key Tone Volume	FCN + ★ or # (Held)
		Review Hidden Digits	FCN Hold

For further information on menu functions see the **Additional Features** section.

THE MEMORY

Your phone has 99 memory locations which allow you to store numbers of up to 32 digits or names of up to 10 letters together with phone numbers of up to 32 digits. Your phone also uses memory locations 70 through 99 as permanent memory. Only authorized dealers (using special adapters) can write the phone numbers into the permanent memory locations. Your phone also keeps and displays the various information about the last 20 calls. The information shows actual talk time of the call, when the call was established (time and day of the week) and whether the call was received or sent. These locations can only be accessed by pressing **RCL** (Hold). A Five (5) location scrollpad memory area is also available for storage of temporary numbers.

STORING INFORMATION

1) Key in the phone number.

2) Press **FCN + 3**.

3) Enter in the name(see **Keying in Names**, page 14).



4) If you want the information stored in the first available memory location, simply press **STO**.(hold)

5) The message **Stored** will be shown on the display along with the first vacant memory location.



6) Press **CLR**.

Otherwise, press **STO** followed by a memory location number. (Example 20)

Note: If the memory location you have selected is already occupied, an alarm tone will sound, the display will flash and the contents of the memory location will be displayed.

Note: If all the memory locations are used, an alarm tone will sound, automatic store mode will be cancelled and the phone will go back to the manual store mode.

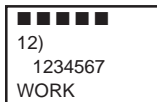
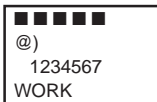
7) If you wish to overwrite the contents in this memory location, simply press **STO**.

8) If you do not want to overwrite the contents of the memory location, simply press **CLR**.

GROUP STORING

Group storing allows you to store information in 10 dedicated memory area groups. (Example, group 0 may be used for all persons whose names begin with the letter "A"). The phone searches the vacant memory locations in the group specified by the user, and automatically stores the phone number and name in that group.

1) After entering phone number and/or name(or after recalling a phone number)

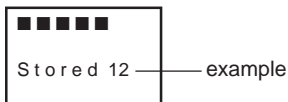


2) Press **STO + ★** .



3) Press **group number** (Example 1).

The phone searches the vacant memory according to the entered number and are stored in the first vacant location in that group.



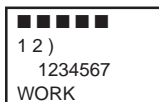
The phone stores the number and names into the grouped vacant memory area as follows:

<u>Input Key</u>	<u>Memory Area</u>
[0]	01 to 09
[1]	10 to 19
[2]	20 to 29
[3]	30 to 39
[4]	40 to 49
[5]	50 to 59
[6]	60 to 69
[7]	70 to 79
[8]	80 to 89
[9]	90 to 99

RECALLING A NUMBER FROM MEMORY

Numbers stored in any of the 99 memory locations can be recalled for viewing and or changing as the user prefers.

1) Press **RCL+Memory Location Number** (Example 12 if known). If not known use **#** or **★** to find the desired number.

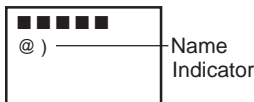


KEYING IN NAMES

1) Press **FCN + 3**. The **NAME** indicator will appear on the display to show that the phone is in the name mode. When you press a key, letters will appear instead of numbers.

2) Select the key labeled with the letter you want. Press it once to obtain the first letter, twice to obtain the second, three times to obtain the third and four times to obtain the digit. If you miss the letter you want, continue to press until it is displayed again.

3) Select further letters in the same way.



4) If you want the same letter twice, press the **#** key. This allows you to advance one space, then you can select it again.

5) **Note that you can enter up to 10 characters. Each "space" and "hyphen" entry is included as part of the maximum 10 characters.**

6) If you begin your memory store procedure in **NAME** mode when you have finished keying in the name, you must store this information to a vacant memory location before you can key in the numbers. Press **RCL** to recall the memory location where you stored the **NAME**, then you can start keying in the phone number.

EDITING NAMES OR NUMBERS

If you make a mistake while keying in a name or a number, you can correct it as follows:

- 1) Press **CLR** to delete the last character or digit.
- 2) Press and hold **CLR** to clear the whole display. Note that this clears both the name and the number entered.

DISPLAYING "HIDDEN" NUMBERS

The phone can display up to 16 digits. If you key in more than this, the first digits will disappear off the side of the display.

If you want to check these hidden digits, press and hold **FCN** and they will appear on the display. When you release the **FCN** key, the original 16 digit display will reappear.

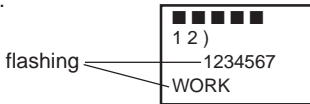
Remember to clear the whole display (press **CLR** and hold) after having displayed a long number.

DELETING INFORMATION FROM MEMORY

- 1) Press and hold **CLR** to clear display.
- 2) Press **STO**.
- 3) The display will read.



- 4) Key in the number of the memory location you want to delete.
- 5) An alarm tone will sound, and the contents of the memory location will be displayed and flashing.



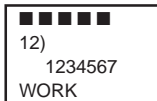
- 6) Press **STO**. The contents of the memory location will be deleted.

RECALLING MEMORY LOCATION NUMBER

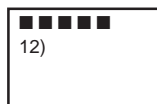
- 1) Press **RCL**. The display will show.



- 2) Key in memory location number (Example 12).



If the memory location is empty, the display will show.



- 3) Call the number by pressing **SND**.

SCANNING FOR A NUMBER

- 1) To scan the entire memory, press **RCL + 0 + 1** to display the contents of the first memory location. Use **#** or **★** keys to display the next or previous memory location.
- 2) When you find the number you want, press **SND** to make the call.

SCANNING FOR A NAME

- 1) Press **RCL #** to display the name memory locations from A to Z. Press **RCL ★** to display the name memory locations from Z to A. The memories will be displayed in alphabetical order by the first character.



- 2) When you find the name you want, make the call by pressing **SND**.

SCRATCHPAD

Digits can be entered during a conversation and will stay on the display after the call. If you wish to keep the scratchpad and store it in a scratchpad memory location (5 locations) use the use the **STO** function below. If **End-to-End** is turned **ON**, **DTMF** tones will be sent out over the voice channel unless the phone is first muted.

Note: Digits entered during a conversation will be sent over the air if the phone is not muted (and end-to-end has not been turned off). These digits also stay on the display after the call. If you wish to store the contents into the phone number memory use STO.

- 1) Key in the area code and phone number.
- 2) Press **STO + 0 + 0**.
- 3) The phone will store the number in the first scratchpad memory location (**S1**).



- 4) To view the Scratchpad memory, Press **RCL + 0 + 0**. The last number dialed will appear on the screen (**LN**) **2141234567** Use **★** or **#** keys to scroll the scratch memory locations S1 through S5.

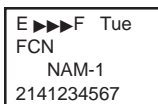
- 5) To store Scratchpad in a normal memory location press **STO** (hold).

- 6) The phone will store the number in the first vacant memory location and indicate the memory location on the display.



DISPLAYING YOUR OWN NUMBER

- 1) Press **FCN**



Note: If your phone is registered on two cellular networks, the number displayed will be for the network that is currently being used.

ADDITIONAL FEATURES

LOCKING/UNLOCKING THE PHONE

Your phone has a simple security system. It can be locked by using a four-digit lock code to prevent unauthorized use.

The lock code is supplied by the dealer. If you forget your lock code contact your dealer. The factory default lock code is 0000.

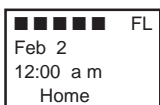
FULL LOCK

When the phone is fully locked, only emergency calls (911) can be made, but any call can be received. Storing to the memory is also prevented.

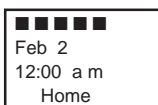
1) Press **FCN + #**. The display will read:



2) Enter 4-digit lock code. If you key in the correct code, **FL** (Full Lock) will appear in the upper right corner of the display. If the key is incorrect the display will go back to the standby mode.



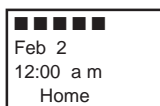
CORRECT



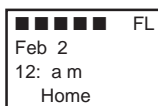
INCORRECT

Note: For security the display will not show the 4-digit lock code.

3) Unlocking is carried out in the same way. Press **FCN + #**, enter in your four (4) digit code. When the lock is cleared the display will go back to the standby mode. If the key is incorrect the display will remain with the **FL** indicator in the upper right hand corner of the display.



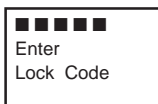
CORRECT



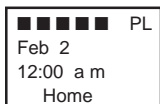
INCORRECT

When the phone is partially locked, only emergency calls (911) and any numbers stored in memory locations **1** through **9** can be made, but any call can be received. Storing to the memory is also prevented.

1) Press **FCN + ★**. The display will read:



2) Enter 4-digit lock code. If you key in the correct code, **PL** (Partial Lock) will appear in the upper right corner of the display. If the key is incorrect the display will go back to the standby mode.



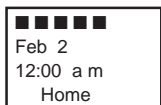
CORRECT



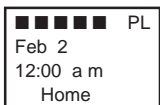
INCORRECT

Note: For security the display will not show the 4-digit lock code.

3) Unlocking is carried out in the same way. Press **FCN + ★** . When the lock is cleared the display will go back to the standby mode. If the key is incorrect the display will remain with the **PL** indicator in the upper right hand corner of the display.



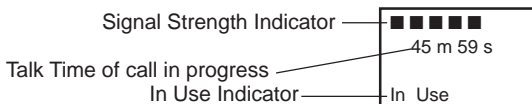
CORRECT



INCORRECT

LENGTH OF YOUR CALLS

The phone allows you to check the duration of your calls. Upon sending or receiving a call, the current call timer begins counting. This can be viewed at anytime on the display.

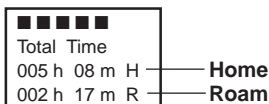


Note: The current call timer will be reset upon receipt or sending of another call. It will also be reset if PWR is turned off and on again. You can manually reset the current call timer by pressing CLR.

RESETTING THE CALL TIMERS

Call timers are used to let you know how much air time you are using both in the home and roam modes. This will allow you to control your air time as you desire. Your phones call timers can be reset to zero at any time you desire. To view your call timers.

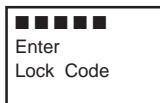
1) Press **FCN + 1**.



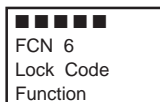
Note: You must have your phones lock code before you can reset your call timers. The lock code is supplied by the dealer. If you forget your lock code contact your dealer.

The factory default lock code is 0000.

1) Press **FCN + 6**.

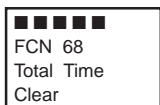


2) Enter your 4-digit lock code.

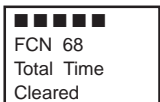


Note: For security the display will not show the 4-digit lock code.

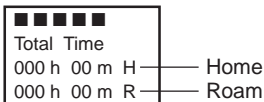
3) Press **8**.



4) Press **STO**.



Your Total Time timers are now reset to zero's.



5) Press **CLR** (Hold) to return to standby mode.

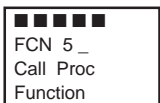
BACKLIGHTING

The phone's keypad and display are illuminated to make them easier to read. The backlights come on when you press any key, and goes off **10** seconds after your last key press. To turn them on again, simply press another key.

Note: For in vehicle use while using the handsfree adapter, the backlight can be placed in the ON condition and will remain on as long as the phone is in the handsfree configuration. Once removed from the handsfree configuration the backlight will go off 10 seconds after your last key press.

To turn the backlight on or off while in the handsfree mode:

1) Press **FCN + 5**.



2) Press **9**.



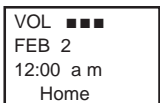
3) Press **RCL** to turn on or off.

SETTING THE KEY TONES

These tones sound each time you press a key. You can turn the keypad tones on, off or adjust them using four levels of loudness.

1) Press **PWR**.

2) Press **FCN # or ★** (Hold) .



Note: When the key tones are switched off, DTMF tones can still be sent.

SETTING THE RINGING VOLUME

The ringing tone sounds when there's an incoming call. You can select the volume of the tone or switch it off, (**SILENT MODE**).

- 1) Press **FCN + 4 + 5**.



- 2) Use **RCL** key to select **Off,Min,Low,Mid** or **Max**.

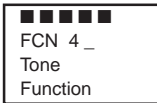
- 3) Press **CLR** to exit and save selection

If you select **Off**, when a call is coming in, the display will flash, the **CALL** message will appear and flash.

SELECTING ALERT TONE TYPE

The Alert Tone on your phone can be selected from four different tone combinations.

- 1) Press **FCN + 4**.



- 2) Press **1**.



- 3) Press **RCL** to select between the four different tone combinations.

Note: You can listen to each tone combination by pressing 1 again after the initial pressing of FCN + 4 + 1. Make sure your ringer volume is on.

- 4) Press **CLR** to exit and save selection.

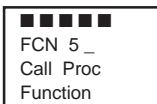
USING THE PHONE ON TWO NETWORKS

The phone's two number capability feature lets you subscribe to both cellular services in your area as well as cellular service in other cities, usually one for each network. (**NAM** stands for Number Assignment Module).

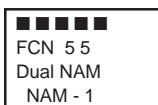
Note: You cannot change from one network to the other during a call. (If you are only registered on one network, you cannot access the other.)

To Change the Network:

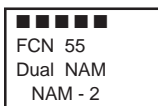
- 1) Press **FCN + 5**.



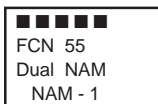
2) Press 5.



3) Press **RCL** to select between **NAM 1** and **NAM 2**.



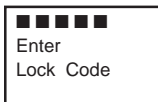
Note: If only one NAM has been programmed and you press the RCL key, a alarm tone will sound and the display will show NAM-1.



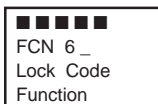
TONE (DTMF)

When end-to-end is "**ON**" you can transmit numerical information as a series of tones using the tone (**DTMF**) feature (Example to check for messages in your answering machine). To set end-to-end "**ON**" or "**OFF**":

1) Press **FCN + 6**.

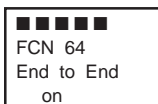


2) Enter in your lock code.



Note: The lock code is supplied by the dealer. If you forget your lock code contact your dealer. The factory default lock code is 0000.

3) Press 4.



4) Press **RCL** to turn End to End **on** or **off**.

Note: End to End has to be in the **ON** state before DTMF Tones can be transmitted or the PAUSE feature will operate.

5) Press **CLR**.



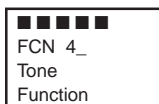
TONE GENERATOR

There are two alternative ways to use the **DTMF** feature.

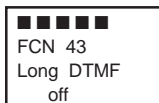
First, make a call in the usual way. Key in numbers onto the display. Each number is directly sent as a **DTMF** tone. The length of the tone depends on how you have the **DTMF** tone generator set.

Note: The DTMF Tone Generator has two settings, off and on. If the DTMF Tone Generator is set to off, the phone sends each DTMF signaling tone for 100 milli seconds. With the DTMF Tone Generator set to on, the phone sends each DTMF signaling tone as long as the key is pressed, up to 3 seconds max.

1) Press **FCN + 4**.



2) Press **3**.



3) Press **RCL** to turn **Long DTMF** on or off.

4) Press **CLR**. The phone returns to normal standby.

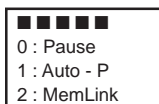
Second, recall a number from a memory location and send it as a **DTMF** tone. (**RCL**, and the memory location number.)

Send the **DTMF** tones by pressing **SND**.

A series of tones, each representing a number, will be heard.

Hints for Storing a DTMF Number in the Memory

If you need to place a manual pause between **DTMF** digits press **FCN + 0 + 0**. If you want to place an automatic pause between **DTMF** digits press **FCN + 0 + 1 (P = 3 Seconds)**. If you want to link memory locations for a long **DTMF** number press **FCN + 0 + 2**.



PAUSES - (Manual) [FCN + 0 + 0] This function creates pauses while sending out **DTMF** signaling tones during conversation mode. When a manual pause is encountered in the **DTMF** string, the phone will pause indefinitely, until the user presses the **SND** key.

More than one pause may be placed in a sequence, separating several groups of **DTMF** digits.

For example, this function may be used for calling a paging system and sending commands, ID numbers (PIN), and/or numeric messages:

(1) (2) (3) (4) (5)
"123456789" + "P" + "123456789#" + **SND** + **SND**

(1) This is the phone number to be called via the cellular system.

(2) This character indicates a Manual Pause. The user will wait for the initial prompt from the paging system before pressing the **SND** key.

(3) This is a **DTMF** digit sequence which may represent the PIN of the called pager.

(4) This is the initial send keypress which causes the phone to initiate a call using the number up to the first pause mark.

(5) This is the second send keypress, while in conversation mode, which will end the manual pause and start the sending of **DTMF** digits.

PAUSES - (Automatic) [FCN + 0 + 1] This function creates pauses while sending out **DTMF** signalling tones during conversation mode. When an automatic pause is used, the phone will pause for three (3) seconds and then continue dialing the **DTMF** sequence.

Multiple pauses may be placed together to extend the duration of the pause - i.e. 6, 9, 12 seconds etc.

For example, this function may be used for calling a paging system and sending commands, ID numbers (PIN, and/or numeric messages):

(1) (2) (3) (4) (5) (6) (7)
"123456789" + "," + "," + "123456789#" + "," + "987654321#" + SND

- (1) This is the phone number to be called via the cellular system.
- (2) This is an Automatic Pause character which indicates a 3 second delay.
- (3) This is a second Automatic Pause character indicating a 3 second delay. The phone will wait a total of 6 seconds before continuing with the following **DTMF** digits.
- (4) This is a **DTMF** digit sequence which may represent the PIN of the called pager.
- (5) This is an additional Automatic Pause mark. The phone will wait 3 seconds before continuing with the following **DTMF** digits.
- (6) This is a continuation of the **DTMF** digit sequence which may represent the numeric message to be sent to the pager.
- (7) This is the Send keypress which causes the phone to initiate a call.

MEMORY LINKING - [FCN + 0 + 2] Memory Linking is a function that allows a phone number to be chained together with a memory recall number for the purpose of adding **DTMF** signalling digits after a number is to be sent.

For example, this function may be used to link individual long-distance recall numbers to a single recall number which holds credit card information. The primary recall number(s) would contain the link information:

Recall #01

(1) (2) (3) (4)
"123456789" + "L" + "99" + SND

- (1) This is the phone number to be called via the cellular system.
- (2) This is a linking mark which indicates that the following two digits represent the recall number to be linked.
- (3) This is the number of the memory recall location to be linked, and therefore treated as **DTMF** signalling.
- (4) This is the Send keypress which causes the phone to initiate a call.

Note: Once the call is placed a pause is automatically inserted and the user must press the SND key in order to output the linked DTMF sequence.

ROAMING(SYSTEM SELECT)

Each cellular service area can have two cellular service suppliers called carriers. One carrier is called the "A" system and the other carrier is called the "B" system. Your phone is designed to work with either or both carriers. The system priority feature allows you to program your phone for optimum operation when in your home serving area or when away from your home area. This is called roaming. When you buy your phone, you may **register** (receive a phone number) with either or both of your local carriers. Contact the office of your home cellular phone company for information about the roaming agreements they have with other cellular phone companies. In some areas, roaming telephones are automatically recognized by the cellular system's computer. In other areas, you must contact the cellular phone operator before it can recognize your phone. The company needs to know your telephone number, your phone's **ESN** (electronic serial number), and how you plan to pay for your calls. There is usually an additional charge for roaming calls.

Note: The ESN for your phone is located in the battery compartment of the phone, and comprises of the first 8 digits preceded by NEC's company code of 189.

To Select the Roaming Mode:

1) Press **FCN + 5**.

■ ■ ■ ■ ■
FCN 5_
Call Proc
Function

(2) Press **4**. The phone will display its current roaming mode.

■ ■ ■ ■ ■
FCN 54
Sys Select
Standard

(3) Press **RCL** to advance through the system selections.

Home Only

This service is limited to the Home Area. Will go to "No Svc" if home SID is not detected.

■ ■ ■ ■ ■
FCN 54
Sys Select
Home only

Sys A only

This service is limited to the 'A' carrier only.

■ ■ ■ ■ ■
FCN 54
Sys Select
Sys A only

Sys B only

This service is limited to the 'B' carrier only.

■ ■ ■ ■ ■
FCN 54
Sys Select
Sys B only

Standard/Preferred

Standard allows the phone to first search for a free channel in the Home system. If the phone cannot find a free channel, it searches the other system.

Preferred System ID's of the systems on which you wish to roam. If the unit does not detect your home SID but does detect a SID you have programmed in as an acceptable SID, the unit will roam and indicate "Preferred". If the unit does not detect your home SID or any SID which has been programmed into your phone as acceptable, then the phone will go to "No Svs".

■ ■ ■ ■ ■
FCN 54
Sys Select
Standard

Note:The home system depends on the current NAM selection.

The **ROAM/PREFERRED** indicator will be displayed when you are using a system that is not your home system.

■ ■ ■ ■ ■
Feb 2
12:00 a m
Preferred

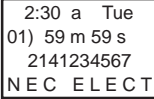
■ ■ ■ ■ ■
Feb 2
12:00 a m
Roam - A

■ ■ ■ ■ ■
Feb 2
12:00 a m
Roam - B

CALL TIME STAMP

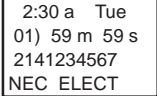
The phone keeps and displays the various information about the last 20 incoming and/or outgoing calls. The information shows the actual talk time of the call, when the call was established (Time and day of the week) and whether the calls were incoming or outgoing calls.

- 1) Press **RCL**(Hold).



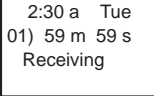
2:30 a Tue
01) 59 m 59 s
2141234567
NEC ELECT

- 2) Press # or ★ key to scroll through calls.



2:30 a Tue
01) 59 m 59 s
2141234567
NEC ELECT

Outgoing Call



2:30 a Tue
01) 59 m 59 s
Receiving

Incoming Call

- 3) Press **STO+Memory Location** (Example 12 to store the number) or **CLR** to exit.
4) To clear Time Stamp Memory Press **FCN + 6**. Enter four (4) digit lock code. Press **1**. Display shows Time Stamp Clear. Press **STO**. Display shows Cleared. Press **CLR**. Display goes to normal standby.

MUTE

The Mute function operates only when the phone is in the conversation mode. There are two (2) Mute positions, **MIC MUTE** or **FULL MUTE**.

MIC MUTE - This function switches off the microphone while in the conversation mode.

FULL MUTE - In the portable configuration, this function switches off both the microphone and the earpiece while in the conversation mode. While mounted in a vehicle (HF Adapter), this function turns off the phones external microphone and speaker.

MIC MUTE:

- 1) Press **FCN + 9**. This switches off the microphone.



■ ■ ■ ■ ■
03 m 06 s
Mic Mute

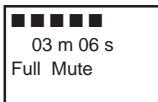
- 2) Press **FCN + 9**. This switches the microphone back on.



■ ■ ■ ■ ■
03 m 06 s

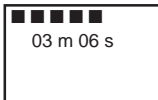
FULL MUTE:

- 1) Press **FCN + 9**(Hold). This switches off both the microphone and earpiece or speaker.



■ ■ ■ ■ ■
03 m 06 s
Full Mute

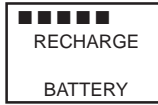
- 2) Press **FCN + 9**. This switches the microphone and speaker back on.



■ ■ ■ ■ ■
03 m 06 s

LOW BATTERY ALARM

The Low Battery Alarm warns the user when the battery power is getting low, by emitting a short double tone. The double tone will sound 6 times at 10 second intervals and the display will show **RECHARGE BATTERY**. After hearing these tones you have approximately **60 seconds** before the phone shuts itself off.



If you have a call in progress, the phone terminates the call and turns off the phone automatically.

ERROR TONE

A Error Tone will sound to inform the user of miss key operations, or when a keypress is ignored.

SELF DIAGNOSTIC CHECK

The phone will show a blank display if it finds any trouble within the unit during its self diagnostic check. If this occurs, immediately turn the phone off and return it to your dealer for repair.

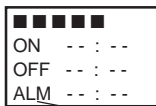


ALARM CLOCK FUNCTION

This is the time setting function to make the clock alarm. The power turns **ON** automatically if the power is off at the alarm set time. The clock alarm operates only once, therefore, it is necessary to reset the phone for the next alarm. The clock alarm will sound for **20 seconds** unless the [CLR] key is pressed. If no key is pressed, the phone will turn off the power when the alarm stops. If any key except [CLR] is pressed, the alarm continues for 20 seconds and phone remains on.

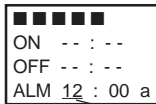
Setting the Alarm:

1) Press **FCN + 2**.



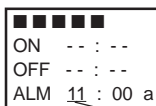
flashing

2) Press **STO**. The flashing moves to the hour field.



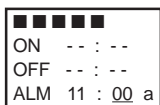
flashing

3) Enter Alarm Time(i.e.11). Press **RCL** during the time is flashing to change to either **AM** or **PM**.



flashing

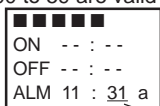
4) Press **STO**. The flashing moves to the minutes field.



■ ■ ■ ■ ■
ON -- : --
OFF -- : --
ALM 11 : 00 a

flashing

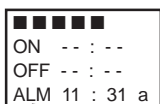
5) Enter Alarm Time(i.e.31).(00 to 59 are valid entries for Minutes)



■ ■ ■ ■ ■
ON -- : --
OFF -- : --
ALM 11 : 31 a

flashing

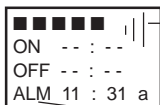
6) Press **STO**. The phone alarm is set at **11:31 AM** and the flashing minute field stops flashing. The setting mode ends and the display shows:



■ ■ ■ ■ ■
ON -- : --
OFF -- : --
ALM 11 : 31 a

flashing

7) Pressing **RCL** turns the Alarm Indicator on or off.



■ ■ ■ ■ ■ | | |
ON -- : --
OFF -- : --
ALM 11 : 31 a

Clock Alarm Indicator

flashing

8) Press **CLR**. The phone returns to normal standby with the Alarm Indicator either **On** or **Off**.

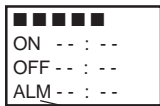


■ ■ ■ ■ ■ | | |
Feb 2
12 : 00 a m
Home

Setting Automatic Power On:

This is the time setting function to turn on the power automatically. Once this function is set, the phone will automatically power on every day at the same time. This function can be set and reset by pressing **RCL**.


1) Press **FCN + 2**.



■ ■ ■ ■ ■
ON -- : --
OFF -- : --
ALM -- : --

flashing

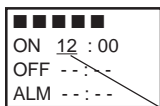
2) Press **#** or **★** . The flashing position moves up or down.



■ ■ ■ ■ ■
ON -- : --
OFF -- : --
ALM -- : --

flashing

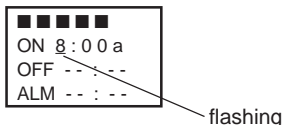
3) Press **STO**. The flashing moves to the hour field.



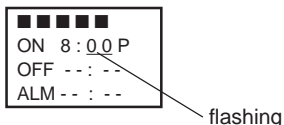
■ ■ ■ ■ ■
ON 12 : 00
OFF -- : --
ALM -- : --

flashing

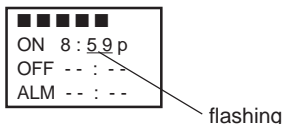
4) Enter Automatic On Time (Example 8). Press **RCL** during the time is flashing to change to either **AM** or **PM**.



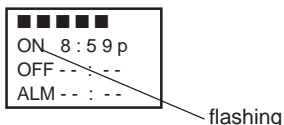
5) Press **STO**. The flashing moves to the minutes field.



6) Enter Automatic On Time (Example 59). (00 to 59 are valid entries for Minutes)

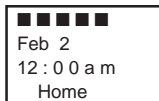


7) Press **STO**. The phone sets at **8:59PM** and the flashing minute stops flashing. The setting mode ends and the display shows:



8) Pressing **RCL** turns the automatic power on feature on or off by displaying the power on time when its on and all dashes when the feature is off.

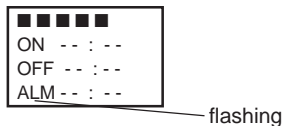
9) Press **CLR**. The phone returns to normal standby.



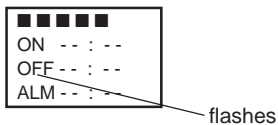
Setting Automatic Power Off:

This is the time setting function that will turn off the power automatically. The power will turn itself off automatically if it is on, and the set time is reached. Once this function is set, the phone will turn off its power automatically every day at the same time. This function can be set and reset by pressing **RCL**.

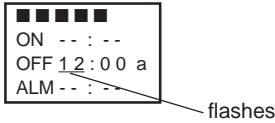
1) Press **FCN + 2**.



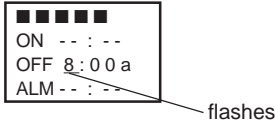
2) Press **#** or **★** . The flashing position moves up or down.



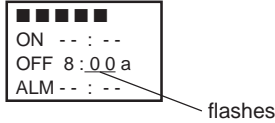
3) Press **STO**. The flashing moves to the hour field.



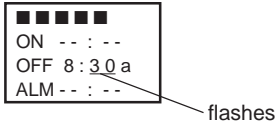
4) Enter Automatic Off Time (Example 8) Press **RCL** during the time is flashing to change to either **AM** or **PM**.



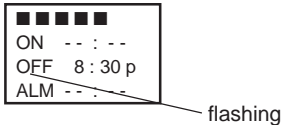
5) Press **STO**. The flashing moves to the minutes field.



6) Enter Automatic Off Time (Example 30). (00 to 59 are valid entries for Minutes)

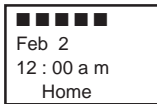


7) Press **STO**. The phone sets at **8:30PM** and the flashing minute stops flashing. The setting mode ends and the display shows:



8) Pressing **RCL** turns the automatic power off feature on or off by displaying the power off time when its on and all dashes when the feature is off.

9) Press **CLR**. The phone returns to normal standby.



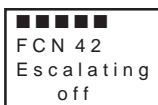
ESCALATING ALERT

If this function is set to **ON**, at the incoming call, Alert tones get louder and louder. The volume will automatically increase from “**Min**”, “**Low**”, “**Mid**” to “**Max**” every six (6) seconds at each level. The starting volume will always be “**Min**”, regardless of the manual ringer volume setting, unless the volume setting is off.

1) Press **FCN + 4**.



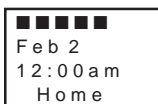
2) Press **2**.



3) Press **RCL**. This turns the function on or off.



4) Press **CLR**. The phone returns to normal standby.



AUTOMATIC ANSWER

The phone will automatically answer the incoming call approximately six (6) seconds after the first alert in the **HANDSFREE MODE ONLY**.

1) Press **FCN + 5**.



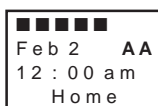
2) Press **1**.



3) Press **RCL**. This turns the Auto Ans Function on or off.



4) Press **CLR**. The phone returns to normal standby.



("AA displayed in
Hands Free Mode
only.)

BATTERY SAVE MODE

This function is controlled by your carrier service and automatically reduces the transmitting power or turns off the transmitter when the user takes a pause during conversation (a pause in which the user does not speak). If this function is set to on, the **BS** (Battery Saving) indicator appears on the display.

1) Press **FCN 5**.



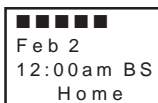
2) Press **2**.



3) Press **RCL**. To turn Battery Save on or off.



4) Press **CLR**. The phone returns to normal standby and shows the **BS** indicator.



Note: When the phone is in the Handsfree configuration, the BS indicator will not be displayed.

AUTOMATIC LOCKING

With this function activated, the phone places itself into **Full Lock** condition upon power on. The four (4) digit lock code or the three (3) digit Temporary Lock Code must be used to unlock the phone.

1) Press **FCN + 6**.



2) Enter four (4) digit lock code.

The lock code is supplied by the dealer. If you forget your lock code, contact your dealer. The factory default lock code is 0000.



3) Press **2**.



4) Press **RCL**. To turn Auto Lock on or off.



5) Press **CLR**. The phone returns to normal standby.



RESTRICTED DIGIT DIALING

The phone allows you to restrict the number of digits on outgoing overseas calls or other long distant phone numbers. The phone will verify the number's digit count after the **SND** key is pressed. The range of entry digits is from '0' through '31'. Entering '0' resets the function to normal, unrestricted dialing.

1) Press **FCN + 6**.



2) Enter four (4) digit lock code.

The lock code is supplied by the dealer. If you forget your lock code, contact your dealer. The factory default lock code is 0000.



3) Press **3**.



4) Press the digit key as follows:
For No Restriction — Press **0**.



flashing

For 7-Digit Restriction — Press **7**.



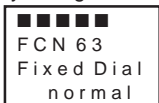
flashing

For 11-Digit Restriction — Press **11**.



flashing

5) Press **STO**. The entered number stops flashing and the data is stored to memory. If a '0' was entered, the display changes to indicate no dialing restriction.



Note: If the incorrect lock code is entered, the phone will return to the normal standby display.

Note: In the 7-digit, or 11-digit restriction mode and the user tries to make a call with a phone number with more than 7 or 11 digits, or starts with a first digit of zero (0), when the **SND key is pressed the alarm tone is heard and the phone will display Extra Dig Dialed Press CLR.**



SPEED DIAL MEMORY LOCKING

This function prevents, either partially or completely, unauthorized access to the speed dial numbers stored in the memory. This function also prohibits memory access, scrollpad memory access, last number dialed access and call time stamp access.

There are three separate setting for the Speed Dial Memory Lock.

- off**..... No restriction
read only.... Reading allowed, Deleting and Rewriting prohibited, **STO** key ignored, Automatic Store Ignored.
on..... **DTMF** Reading, Deleting and Rewriting prohibited, **STO** key ignored, **RCL** key ignored.

1) Press **FCN + 6**.



2) Enter four (4) digit lock code.

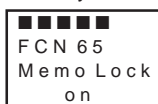
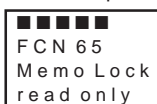
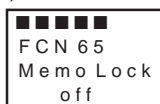
The lock code is supplied by the dealer. If you forget your lock code, contact your dealer. The factory default lock code is 0000.



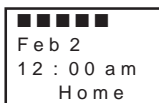
3) Press 5.



4) Press **RCL**. To Select Level of Speed Dial Memory Lock.



5) Press **CLR**. The phone returns to normal standby.



TEMPORARY LOCK CODE SET

This function allows the user to program any three (3) digit temporary lock code to lock or unlock the phone without revealing your personal four (4) digit lock code.

Note: The three (3) digit temporary code can not be the same as the first three digits of your personal lock code.

1) Press **FCN +6**.



2) Enter four (4) digit lock code.

The lock code is supplied by the dealer. If you forget your lock code, contact your dealer. The factory default lock code is 0000.



3) Press **6**. The phone shows current three (3) digit code.

Factory default code is 000.



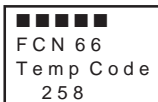
(XXX =current code)

4) Enter three (3) digits. **Example 2 + 5 + 8.**

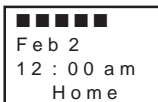


258 is flashing

5) Press **STO**. The flashing stops and the new code is set.



6) Press **CLR**. The phone returns to normal standby.



RESET FUNCTION STATE

This function initializes all the phone's functions to their default state.

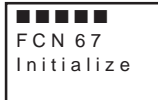
1) Press **FCN 6** and Enter your 4-digit Lock Code.



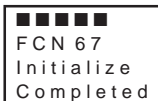
2) Enter your four (4) digit Lock Code.



3) Press **7**.



4) Press **STO**.



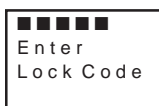
The Phone Resets to the Defaults listed below:

- | | |
|-----------------------------------|-----------------------------------|
| (1) Total Talk Time: [000h00m] | (2) Call Time Stamp: [00m00s] |
| (3) Clock Alarm: [Off,12:00am] | (4) Auto Power On: [Off,12:00am] |
| (5) Auto Power Off: [Off,12:00am] | (6) Minutes Reminder: [Off] |
| (7) Automatic Answer: [Off] | (8) Battery Save Select: [Off] |
| (9) Auto-Lock: [Off] | (10) Fixed Digit Dial: [Normal] |
| (11) Memory Lock: [Off] | (12) End to End Switch: [On] |
| (13) Temporary Lock Code: [000] | (14) Escalating Alert: [Off] |
| (15) Alert Type Select: [1] | (16) Last Number Memory: [Clear] |
| (17) Ext Cont: [Disable] | (18) Long DTMF: [Off] |
| (19) One Touch Dialing: [Off] | (20) Multiple Language: [English] |
| (21) Any Key Answer: [On] | (22) Backlight: [On] |

WAKE UP MESSAGE PROGRAMMING

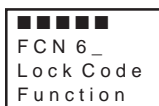
This function allows the user to enter a Wake-Up Message. This message appears for 4.5 seconds each time the phone is turned on.

- 1) Press **FCN + 6**.

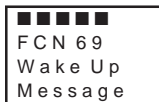


- 2) Enter four (4) digit lock code.

The lock code is supplied by the dealer. If you forget your lock code, contact your dealer. The factory default lock code is 0000.



- 3) Press **9**.



- 4) Press **STO**.

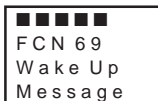


- 5) Enter the alphanumeric data.

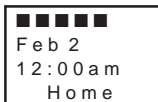
Select the key labeled with the letter you want. Press it once to obtain the first letter, twice to obtain the second, three times to obtain the third letter, and four times to obtain the number. If you miss the letter you want, continue to press until it is displayed again. If you want the same letter twice, press the # key. This, allows you to advance one space, then you can select it again. You can enter up to 30 characters. Each "space" and "hyphen" entry is included as part of the maximum 30 characters.



6) Press **STO**. The wake-up message will be stored into memory.



7) Press **CLR**. The phone returns to normal standby.



EXTERNAL CONTROL LINE

This function is used in conjunction with the **Handsfree Kit** and sets the phone to the Call Alert or Radio Mute mode.

Call Alert (Hands-Free Mode Only)

The phone sends out a Call Received signal to a external alerting device such as your vehicle horn or lights. When your vehicle's ignition is turned off, the phone's power remains on and in standby. Power to your phone will be removed automatically five (5) hours after the ignition has been turned off.

Radio Mute (Hands-Free Mode Only)

The phone sends out a Muting signal to your car's radio system when a call is received and you answer. This signal automatically lowers the volume of your vehicle's radio. Upon ending the call your vehicle's radio volume automatically returns to its previous setting.

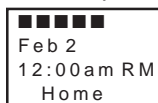
1) Press **FCN + 8**.



2) Press **RCL**. To set External Control to Disable, Call Alert or Radio Mute.



3) Press **CLR**. The phone returns to normal standby.



**(“CA” or “RM” displayed
in Hands Free Mode Only)**

AUTOMATIC REPEAT DIALING

The phone is capable of automatically redialing the same phone number up to three times with a 60-second interval between each try. After the third try, the phone will automatically cancel the repeat dial mode and go back to normal standby.

1) Enter a number (or press **RCL** for a memory location)



2) Press **FCN + SND**. The phone will show the "RD" indicator, sound a ringing tone and dial the number selected. After thirty-five (35) seconds, if the call is not answered, the phone automatically terminates the call and the display will show:

```
■ ■ ■ ■ ■ RD
1 2 3 4 5 6 7
Mic Mute
```

```
■ ■ ■ ■ ■ RD
0 0 m 3 6
Home
```

After sixty (60) seconds, the phone will try to dial the same number again. The phone will sound a ringing tone and redial the number selected. After thirty-five seconds, the phone automatically terminates the call again if the call is not answered and the display again will show:

```
■ ■ ■ ■ ■ RD
1 2 3 4 5 6 7
Mic Mute
```

```
■ ■ ■ ■ ■ RD
0 0 m 3 6 s
Home
```

This process is repeated three (3) times. If after the third time the call is not answered the repeat dial mode ends and the "RD" indicator disappears from the display.

```
■ ■ ■ ■ ■
0 0 m 3 6 s
Home
```

3) Press **CLR**. The phone returns to normal standby.

```
■ ■ ■ ■ ■
Feb 2
1 2 : 0 0 a m
Home
```

ONE TOUCH DIALING

When One-Touch dialing is enabled, the user will have up to nine (9) one-touch keys available. Each one-touch key corresponds to one of the first nine (9) memory locations (**Example one-touch 1 = RCL 01**). When turned on this function will allow the user to press a single digit (**1 through 9 Hold**) and have the phone automatically display and dial (**SND**) the number residing in that memory location.

1) Press **FCN + 5**.

```
■ ■ ■ ■ ■
FCN 5_
Call Proc
Function
```

2) Press **7**.

```
■ ■ ■ ■ ■
FCN 57
One-Touch
off
```

3) Press **RCL**. This turns One-Touch on or off.

```
■ ■ ■ ■ ■
FCN 57
One-Touch
on
```

4) Press **CLR**. The phone returns to normal standby.

```
■ ■ ■ ■ ■
Feb 2
1 2 : 0 0 a m
Home
```

MULTIPLE LANGUAGE SELECTION

Your phone has the capability of displaying three (3) different languages on the display. The user can select which language (**English, French, Spanish**) they feel most comfortable with, and the phone will remain in that language until changed. The default language is English.

- 1) Press **FCN + 5**.



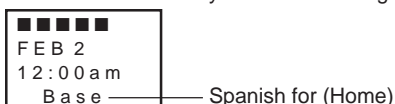
- 2) Press **8**.



- 3) Press **RCL**. This changes the language function from English, French or Spanish.



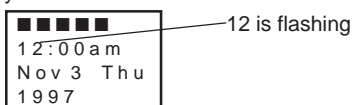
- 4) Press **CLR**. The phone returns to normal standby in a different language.



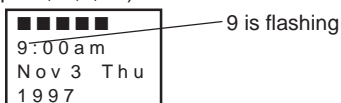
CLOCK AND CALENDAR SETTING

This function sets the year, month, day and time. The phone automatically sets the day of the week every time when the year, month and the day are set. The Year range is from 1994 to 2093.

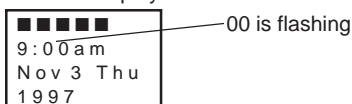
- 1) Press **FCN + 7**. The display shows the data set screen:



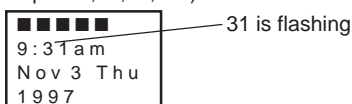
- 2) Key in correct hour (Example 9,11,4,etc).



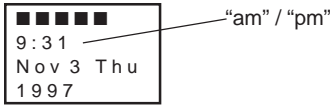
- 3) Press **STO**. The hour is set and the display moves to minutes.



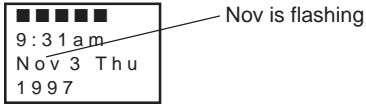
- 4) Key in correct minutes (Example 15,31,59, etc).



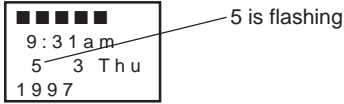
5) Press **RCL** to select either **AM** or **PM**.



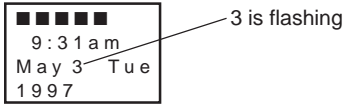
6) Press **STO**. The minutes are now set and display moves to month.



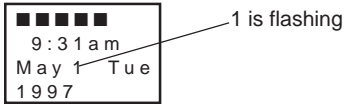
7) Enter Month Number (Example Jan=1, Feb=2, Mar=3 etc.).



8) Press **STO**. Month is now set and display shows day.



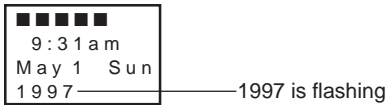
9) Enter correct date (Example 1,10,21,30 etc.).



10) Press **STO**. Date is now set and phone automatically enters in the day of the week (Example Mon,Tue,Wed,Thur,etc.).



11) Enter in correct year (Example 1997,1998,1999, etc.).

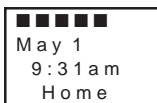


12) Press **STO**. Year is now set and display goes back to hour and flashes.



Note: If correct year is already displayed press **STO.**

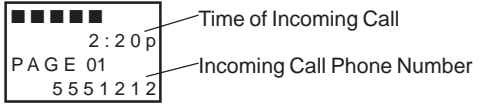
13) Press **CLR**. The phone returns to normal standby with the correct date and time.



CALLER LINE IDENTIFICATION

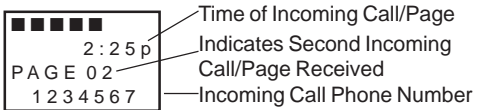
The caller line identification feature (when available) allows the phone number of the incoming call to appear on the phone display. Contact your cellular service provider for information on caller line identification.

With the phone in standby, an incoming call appears on the display as shown below.



If the incoming call, also referred to as a page, is not answered, the caller line identification information remains on the display. The displayed incoming phone number can then be dialed by pressing **SND** or the information can be removed from the display by pressing **CLR**.

If another incoming call is received before the previous incoming call information has been cleared from the display, the new incoming call information appears as shown below.



As incoming calls are received, the call/page indicator increases up to a maximum of 10. If more than 10 incoming calls are received before any information is cleared from the display, all new incoming calls are indicated as PAGE 10. If the phone is powered off before the caller line information is viewed and cleared, the latest incoming call information is again displayed when the phone is powered on.

With a call in progress, an incoming call/page is also indicated on the phone display. The IN USE indicator, displayed when a call is in progress, is replaced with the caller line identification information. The caller line identification information can be cleared from the screen by pressing **CLR**; the IN USE indicator is then redisplayed for the current call in progress. The call in progress can be terminated by pressing **END** and the displayed incoming call/page then dialed by pressing **SND**.

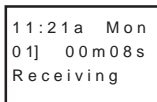
The last 10 incoming caller identification numbers can be viewed by accessing the the message register as described below.

VIEWING THE MESSAGE REGISTER

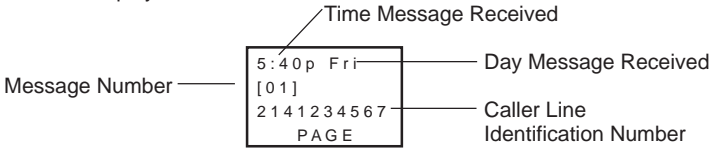
The message register stores up to the 10 latest caller line identification messages for viewing. Once there are 10 messages in the register, the oldest message is discarded as a new message is received.

To view the caller messages stored in the message register:

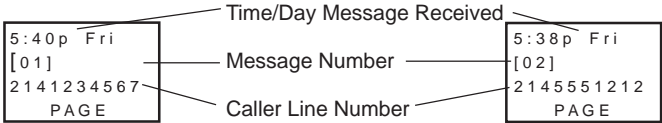
- 1) Press and hold **RCL** to access the call time stamp register.



- 2) Press and hold **RCL** again to access the message register. The latest message received is displayed.



- 3) Press **#** or **★** to scroll through the message register. The phone beeps to indicate the last message stored in the register is displayed.



- 4) Press **SND** to dial a displayed caller line number stored in the message register.

CLEARING THE MESSAGE REGISTER

The message register can be cleared and all contents erased.

- 1) Press **FCN + 6 (Lock Code) + 0**.



- 2) Press **STO** to clear the message register contents.

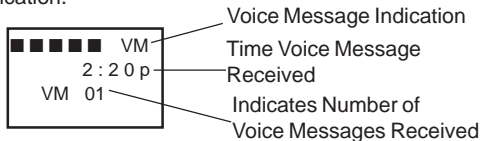


VOICE MESSAGING SERVICE

Cellular Digital Messaging Service (CDMS), if available through the cellular service provider in the area, is a voice message service for the cellular customer. When a cellular customer turns off or does not answer the cellular phone, or when the customer is currently on a call, CDMS answers the incoming call. The caller is provided with the option to leave a message. The cellular phone user is notified of messages through the voice message waiting indication described below.

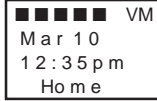
VOICE MESSAGE WAITING INDICATION

When an incoming caller leaves a message through the cellular provider's digital messaging service as described above, the cellular phone user is notified by a voice message waiting indication. Upon receiving a voice message, the phone beeps and displays the following indication.



The phone beeps and the indication appears whether the phone is in standby or in use when the voice message is received. The voice message information can be removed from the display by pressing **CLR**. If additional voice messages are received before the current voice message waiting information is cleared from the display, the voice message number indicator increases.

After the voice message waiting notification has been cleared, a voice message indication (VM) appears in the upper right corner of the standby display until the voice message(s) are retrieved from the cellular provider's digital messaging service.

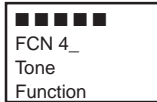


Voice messages can be retrieved from the messaging service by following the service provider instructions for voice message retrieval.

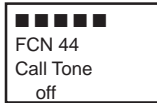
MINUTE REMINDER TONE

During conversation on the phone, the phone will make short tones every minute to remind you that one minute of air time as been used. The minute reminder tone can be set on or off as you desire.

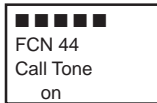
1) Press **FCN + 4**. The display will show the Tone Function menu:



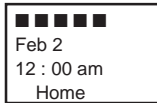
2) Press **4**. The display shows the currently selected Call Tone mode.



3) Press **RCL** to select the setting 'on' or 'off'.



4) Press **CLR** The phone returns to normal standby.



While in the conversation mode, a "Double Beep" will sound at the end of each minute. A "Single Beep" will sound ten seconds before the end of each minute.

SID MANAGEMENT

The SID Management feature lets the phone operate only within specifically identified (Preferred) systems. You can enter up to thirty (30) preferred System ID numbers that identify the systems that you want your phone to access.

Programming of your System ID numbers is accomplished by your service provider and is only associated with NAM1.

NAM PROGRAMMING

Consult your dealer for NAM Programming information.

CARE AND MAINTENANCE

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you enjoy this product for many years.

Keep it dry. (Water contains minerals that will corrode electronic circuits). Avoid all liquid spills. Any form of liquid will cause permanent damage to your phone.

Do not store in hot area. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.

Do not drop it. This might cause permanent damage. The internal circuit boards can be broken.

Do not use or store in dusty, dirty areas. This will cause permanent damage to moving parts.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth **slightly dampened** in a mild soap-and-water solution. If the unit is not working properly, take it to your nearest authorized dealer. The personnel there will assist you, and, if necessary, arrange for service.

TROUBLESHOOTING

If the power does not come on or stay on:

Make sure the battery is installed in the phone properly.

Be sure the contacts are clean on the battery and the charger.

Battery charge may be too low for operation. Listen for the low battery alarm or check battery level by pressing **FCN**.

If the power comes on, but the phone does not work:

Check the NO Service (NO SVC) message, you might be out of the cellular service area.

Make sure that the antenna is extended to its full length.

LIMITED WARRANTY

1. What Products May Be Covered By This Limited Warranty?

The following products (the "Products" or the "Product") purchased through an NEC America, Inc. (NECAM), Wireless Communications Division Authorized Dealer (the "Dealer") in the United States on or after January 1, 1997, may be covered by this warranty:

[TALKTIME MAX962 ANALOG CELLULAR TELEPHONE]

2. What Does This Warranty Cover?

NECAM warrants to the original end-user Product purchaser ("You") that the Products will conform to the applicable published specifications in effect at the time of shipment from NECAM to the Dealer, and that the Products will be free from defects in materials or workmanship under normal use and service during the warranty period described in Paragraph 4.

3. When Does Your Warranty Begin?

The warranty period will begin on the date You purchase the Product. Dated proof of purchase is necessary to accompany any Product returned for warranty service consideration. Valid proof of purchase must identify the point of purchase, date of purchase, Product model or trade name, and Electronic Serial Number or Mechanical Serial Number for transceivers and boosters.

4. How Long Does The Coverage Last?

The warranty period for the Product is:

[ONE (1) YEAR]

Any Products repaired or replaced under the terms of this warranty are covered under the warranty for the remainder of the original warranty period or ninety (90) days from the date of service return shipping, whichever is longer.

5. What Will The Manufacturer Do If The Product Becomes Defective In Materials Or Workmanship During The Warranty Period?

If any Product covered under this warranty becomes defective in materials or workmanship during the applicable warranty period, NECAM will, at its option, either repair the defective Product without charge for parts and labor, or provide a replacement in exchange for the defective Product.

6. What Is Not Covered By This Warranty?

- (a) This warranty does not extend to:
 - (i) Products which have been subjected to misuse, accident, physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water, or other liquid intrusion, or;
 - (ii) Products which have been damaged due to repair, altered, or modified by anyone other than an authorized service warranty component-level representative of NECAM, or;
 - (iii) Defects caused by components, parts, or accessories not compatible with the warranted Product, or;
 - (iv) Products whose warranty/quality labels, product serial number plates or electronic serial numbers have been removed, altered, or rendered illegible, or;
 - (v) Accessory items such as antenna, cables, curl cords, cases, etc., or;
 - (vi) Products shipped to NECAM for repair from outside the United States.

- (b) Any other warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose, shall be limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

- (c) NECAM's total liability for damages for any cause related to or arising out of the use or inability to use the product, whether in contract, negligence, strict tort, or based on any other legal theory, shall not exceed the original price paid for the product.

- d) In no case shall NECAM be liable for any indirect, special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict tort, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of savings or revenues, inability to use the products or any associated equipment, cost of capital, cost of any substitute equipment, facilities or services, claims by third parties other than you, and injury to property. These limitations do not apply to claims for personal injury. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

7. How Do You Get Warranty Service?

If Your Product requires warranty service, it must be returned to an NEC Authorized Service Center along with a description of the Product malfunction or difficulty. You are required to substantiate warranty status with a dated proof of purchase (as explained in item #3), inclusive of Product's serial number (if applicable). The address of the nearest NECAM Authorized Service Center may be obtained by calling (800) 637-5917 or (972) 751-750, or by writing to: NEC America, Inc., Attention: Service Support & Administration, 1621 Walnut Hill Lane, Irving, Texas, 75038. NECAM assumes no risk for damage or loss in transit.

If, in NECAM's sole opinion, the Product failure is not covered under this warranty, or proof of purchase does not meet the terms of this warranty, You will be notified and Your authorization will be requested for any further repair activity. Products repaired under warranty will be returned to You, transportation prepaid.

8. How Does State Law Apply To This Warranty?

This warranty gives You specific legal rights, and You may also have other rights which vary from state to state.

9. This Warranty Is The Entire Agreement.

Unless modified in writing, signed by both You and NECAM, this warranty is understood to be the complete and exclusive agreement.

REV: LW012097

TECHNICAL INFORMATION

Dimensions (without antenna)	147.32x50.8x27.94mm (5.8"x2.0"x1.1")
Weight	7.8 ounces
Transmitting Power	0.6 W max. ERP
Operating Voltage	4.8V(int. battery)
Frequency Band	824.040 - 848.970 MHz (TX) 869.040 - 893.970 MHz (RX)
Standard Battery Capacity	1000 mAh
Number of Channels	832
Memory Locations	99
Memory Capacity	Numeric: 32 digits per location Names: 10 letters per location

LICENSED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS

4,954,951	4,942,516	4,896,260	4,829,419	4,825,364	4,686,622	4,531,182
4,396,976	4,371,923	4,121,284	4,120,583	4,435,732	4,471,385	4,672,457
4,739,396	4,675,863	4,817,089	4,912,705	5,022,024	5,121,391	

NEC SERVICE SUPPORT

NEC's Service Support group is ready to assist you with any additional information that you may need in the operation and integration of your NEC Cellular Telephone and NEC Authentic Accessories. Service Support can be obtained by contacting NEC at:

Telephone:

1-800-637-5917 *
1-972-751-7500

Writing:

NEC America, Inc.
Service Support
1621 Walnut Hill Lane
Irving, Texas 75038

* The 800 number listed above also provides access to the NEC Repair Service and Parts Sales groups.

NEC Marketing & Sales

Marketing:

NEC America Inc.
Wireless Marketing Division
1555 Walnut Hill Lane
Irving, Texas 75038
1-800-421-2141

Sales Agency:

NMI Corporation
14110 N. Dallas Parkway
Suite 300
Dallas, Texas 75240
1-800-CALL-NMI (225-5664)

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NOTES:

- [X][X] = Memory Address 01 to 99.
[X] = Memory Address 1 to 9.

KEY OPERATION TERMS:

- **Press** = Press Key firmly.
- **Press(Hold)** = Press and hold down key.
- **Turn** = Change Mode
- **Key-In** = Enter a series of digits

BASIC OPERATION:

Power On/Off:

- Press(Hold): **[PWR]**. For On or Off. 6

Place A Call:

- Key-in [Number]. Dial Number 6

Send A Number:

- Press **[SND]** 6

Receive A Call:

- Press **[SND]** 6

End A Call:

- Press **[END]** 6

CONVENIENCE FUNCTIONS:

Edit Display:

- Press **[CLR]**. Erase Digit. 11
- Press **[CLR Hold]**. Erase display 11

Backlight:

- Press **[Any Key]** Except **[PWR]**
For 10-second backlight. 15

View Hidden Digits:

- Press **[FCN Hold]**.
With Number Displayed. 11

Earpiece Volume Control:

- Press FCN # or ★ during call. 7

Keypad Volume Control:

- Press FCN # or ★ during standby. 15

View Own Number:

- Press **[FCN]** 12

MEMORY STORING AND RECALL

Store Number to Vacant Address:

- Key-in Number. Press **[STO Hold]**.
(1st Vacant Location)
Key-in Number. Press **[STO]** +
[Memory Location]. 9

Store Number to Occupied Address:

- Key-in Number. Press **[STO]** +
[Memory Location]. Press **[STO]**
again to overwrite. 9

Store Number From Scratchpad:

- o Key-in Number During Conversation.
Press [**STO Hold**].(1st Vacant Location)
Key-in Number During Conversation.
Press [**STO**] + [**Memory Location**]. 9

Recall Stored Numbers:

- o Press [**RCL**] + [**Memory Location**]. 11
For Direct Recall.
Press [**RCL**] + [**01**].Press # or ★.
For Scrolling All Locations. 12
Press [**RCL**] # or ★ .
For Scrolling By Name. 12

FCN KEY OPERATIONS:

- FCN** : View Own Number 12
Battery Check 3
- FCN 1:** Total Time(View/Reset) 14
- FCN 2:** Alarm Clock(Setting) 22/23/24/25
- FCN 3:** Alpha Characters(Entering) 10
- FCN 4:** Tone Functions(Setting) 16/18/25/26/38
- FCN 5:** Call Processing(Selecting) 15/16/17
20/26/33/34/27
- FCN 6:** Locked Function 14/17/27/28
29/30/31/32/37
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