

TalkTime Max™ 920
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 MAX™ 920 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.

Specifically, NEC recommends only the use of Nickel Cadmium (NiCd) batteries with the TalkTime MAX™ 920 phone. Use of other batteries, such as Nickel Metal Hydride (NiMH) may result in poor battery performance, and in some cases, create a potential safety risk due to overheating of the battery.

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 1-800-822-8837, 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 battery must be charged, since In-Vehicle Adapter Kits serve 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 can 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 that 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/ICDs

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:

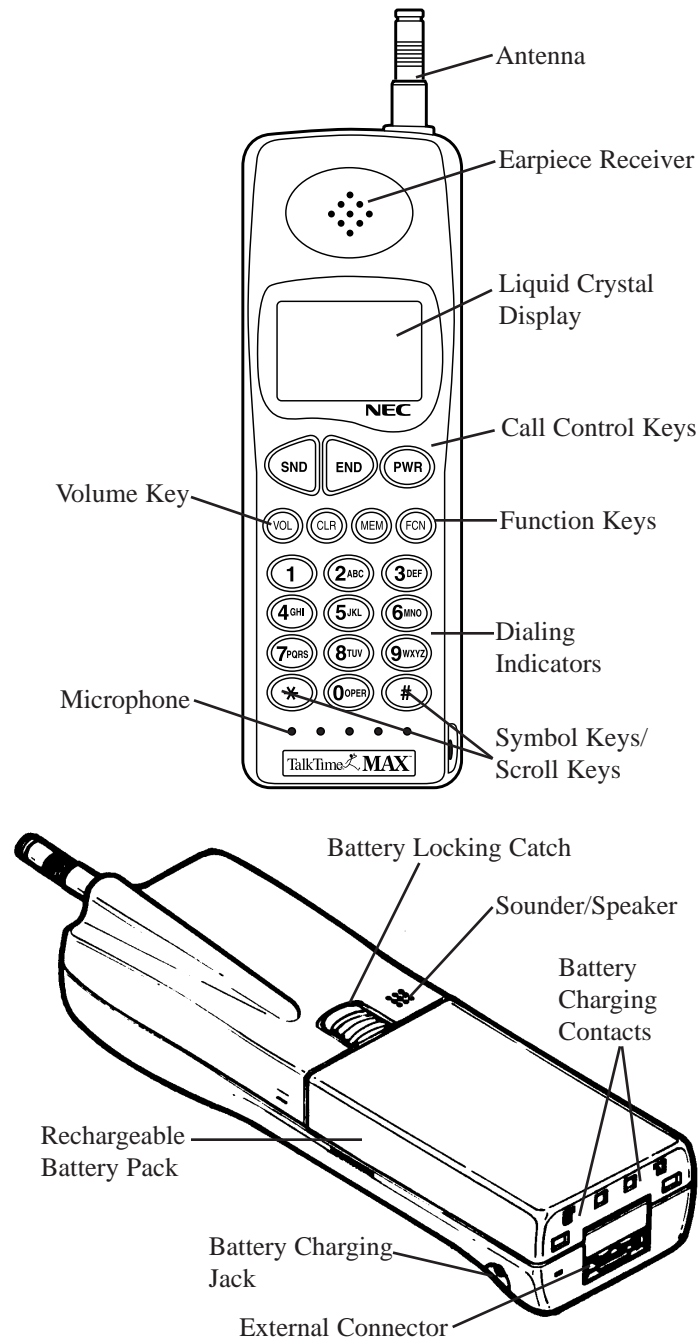
Wireless phones should be kept at a safe distance from a pacemaker. Existing data indicate that the greater the distance between a pacemaker and a wireless phone, the less risk of interference. These data further indicate that six inches is the proper separation distance for minimal risk.

Practical steps to achieve this separation distance include:

- o 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.)
- o 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 serviceable parts inside. Do not attempt to open the case.

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

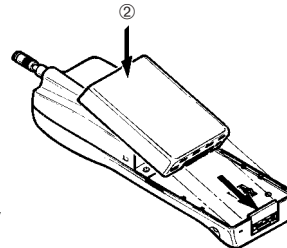
INSTALLING AND REMOVING THE BATTERY

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 downward on the battery until the locking catch snaps into place.

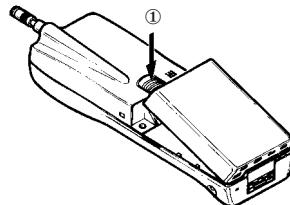
3. Make sure the battery is properly installed.



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 [FCN] [8] keys after power has been applied to the phone. The display screen indicates the battery charge level ranging from [o] to [oooo]. [o] representing low battery and [oooo] representing full battery.

```
PWR
b a t t
o o o o
```

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.

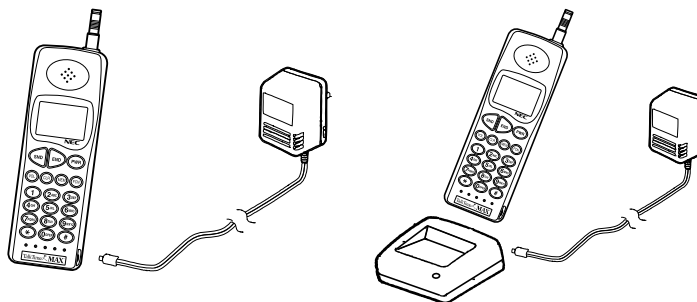
(A)

1. Plug the AC Adapter into a standard 110V AC outlet.
2. Insert the DC plug into the phones battery jack.
3. With PWR on display will show:

```
PWR
o o o o
C H A r g i n g
```

(B)

1. Plug the AC Adapter into a standard 110V AC outlet.
2. Plug the Charging Stand into the Adapter.



(A)

(B)

Note: Initial charging and recharging of the battery usually takes approximately 10 hours.

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

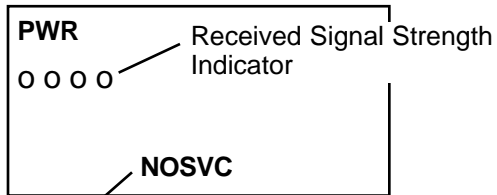
Batteries last longer and perform better if allowed to discharge fully at least once a week. You can do this by leaving the phone switched on overnight, or until the message **RECHARGE BATTERY** is displayed and the phone shuts itself off.

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

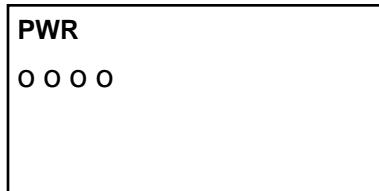
DISPLAY INDICATORS

PWR	FCN	HF	MUTE
8 8	8 8	8 8	8 8
8 8	8 8	8 8	8 8
IN USE	NOSVC	ROAM-B	

(Power-Up Display)



“NO SVC” shows until automatic lock-in with Carrier Service. Stays on for no signal or no connection with Carrier Service.



(Normal Operating Display)

QUICK REFERENCE GUIDE

Turn On/Off	Press and hold PWR .
Make Call	Key in number, press SND .
End call	Press END .
Answer call	Press any key except PWR .
Clear digit	Press CLR .
Clear display	Press and hold CLR .
Last number redial	Press SND .
Adjust volume (4-levels off-max)	Press VOL for each level.

QUICK REFERENCE GUIDE

The Memory

Store a phone number	Press [FCN][MEM] . Desired memory location by number.(01,02,14 etc.) Press [MEM] to store if occupied.
Speed Dialing	Press [MEM] and memory location number. Press SND .
Scan through memory	Press [MEM] + 0 + 1, # or *

List of Menu Functions

TOTAL TIME Home & Roam	FCN + 1
CALL TIME	FCN + 2
MUTE TX MUTE FULL MUTE	FCN + 3 FCN + 3 FCN + 3(HOLD 3)
DTMF TONE (Long/Standard)	FCN + 4 Press 4 to change.
SYSTEM SELECT (Home,Standard, A-Only,B-Only)	FCN + 5 Press 5 to change.
NAM SELECT (NAM1,NAM2)	FCN + 6 Press 6 to change.
RING TONE VOLUME (4 LEVELS 1,2,3,4)	FCN + 7 Press VOL to change.
BATTERY LEVEL	FCN + 8
PAUSE DIAL	FCN + 9
FULL LOCK	FCN + #
PARTIAL LOCK	FCN + *
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 an all "8" pattern.

2) When the **RSSI 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

For optimum performance, 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.

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)** appear 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.

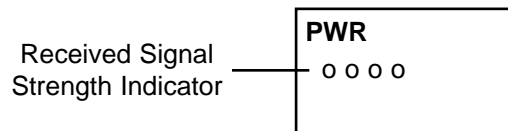
2) Press **SND** (or any key except **PWR**) and lift the phone to your ear.

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.

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 circles on the left side of the display screen. The more circles, 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 KEY

The earpiece volume can be controlled by the volume key **VOL** while in conversation mode.

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 momentarily appear on the display and is automatically redialed.

PWR 2141234567 IN USE

PWR o o o o IN USE

SPEED DIALING

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

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

PWR 12 2141234567

- 2) Press **SND**. The phone number will disappear and the signal strength indicator will appear.

PWR 2141234567 IN USE

PWR o o o o IN USE

THE MEMORY

Your phone has 24 memory locations which allow you to store numbers of up to 32 digits.

- o **Memory Address MEM #:** Displayed as “OC” 32 digits. Auto-Stored when Last Number Dialed is sent. Erased by next number sent.
- o **Memory Address MEM 00:** Your own phone number and NAM used.
- o **Memory Address 1 to 24:** 32 digits. Keypad Entry.

STORING INFORMATION

- 1) Key in the phone number.
- 2) Press **FCN + MEM**.



- 3) Press in Memory Location number (01,02,12, etc.).
- 4) The number will automatically be stored in the memory location selected.

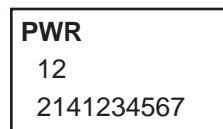
Note: If the memory location you have selected is already occupied, an alarm tone will sound, the display will flash and the contents of the memory location will be displayed.

- 5) If you wish to overwrite the contents in this memory location, simply press **MEM**.
- 6) If you do not want to overwrite the contents of the memory location, simply press and hold the **CLR** key.

RECALLING A NUMBER FROM MEMORY

Numbers stored in any of the 24 memory locations can be recalled for viewing and or changing as the user prefers.

- 1) Press **MEM + Memory Location Number**(i.e. 12)(if known). If not known use **#** or ***** to find the desired number.



- 2) Press **SND** to proceed with the call.

EDITING NUMBERS

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

- 1) Press **CLR** to delete the last digit.
- 2) Press and hold **CLR** to clear the whole display.

DISPLAYING “HIDDEN” NUMBERS

The phone can display up to 16 digits (dashes count as digits). If you key in more than 16, 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

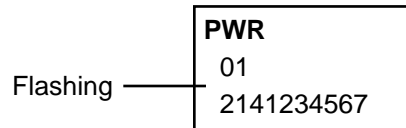
- 1) Press and hold **CLR** to clear display.
- 2) Press **FCN + MEM**.
- 3) The display will read.



A rectangular box representing a phone display. The text "PWR" is in the top left corner. Below it, the word "Store" is displayed with a wide letter spacing.

- 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.

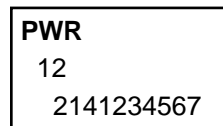


A rectangular box representing a phone display. The text "PWR" is in the top left corner. Below it, the number "01" is displayed. Below "01", the number "2141234567" is displayed. To the left of the box, the word "Flashing" is written with a horizontal line pointing to the "01" on the display.

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

SCANNING FOR A NUMBER

- 1) To scan the entire memory, press **MEM** and # or * to display each occupied memory location.



A rectangular box representing a phone display. The text "PWR" is in the top left corner. Below it, the number "12" is displayed. Below "12", the number "2141234567" is displayed.

- 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 use the **FCN + MEM** function to store the scratchpad information.

Note: DTMF tones will be sent out over the voice channel unless the phone is first muted.

DISPLAYING YOUR OWN PHONE NUMBER

1) Press **MEM + 0 + 0**.

PWR
P-1 2 1 4
1 2 3 - 4 5 6 7

Note: If your phone is registered on two cellular networks, the number displayed will be for the network that is currently being used. P1 is NAM1, P2 is NAM2.

FEATURES

NAM SELECT

- 1) Press **FCN + 6**.
- 2) Press **6** to change.

PWR
P-1 2 1 4
1 2 3 - 4 5 6 7

PWR
P-2 2 1 4
2 3 4 - 5 6 7 8

Note: If only one NAM has been programmed, FCN + 6 will not operate. Error tone will sound.

LOCKING/UNLOCKING THE PHONE

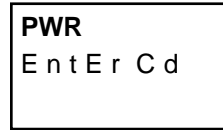
Your phone has a simple security system. It can be locked by using a 4-digit or 3-digit lock code to prevent unauthorized use.

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

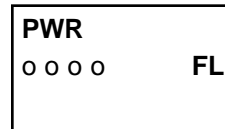
When the phone is fully locked, only emergency calls (**911**) can be made, but any call can be received. Storing to the memory is also prevented.

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



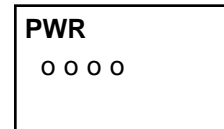
PWR
E n t E r C d

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



PWR
o o o o FL

CORRECT

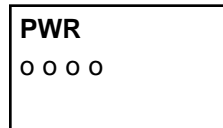


PWR
o o o o

INCORRECT

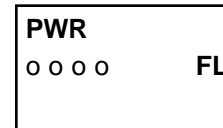
Note: For security the display will not show the 4-digit lock code.

3) Unlocking is carried out in the same way. Press **FCN + #**, enter in your 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 on the right side of the display.



PWR
o o o o

CORRECT



PWR
o o o o FL

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.

PARTIAL LOCK

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

PWR E n t E r C d

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

PWR o o o o PL

CORRECT

PWR o o o o

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 on the right side of the display.

PWR o o o o

CORRECT

PWR o o o o PL

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 by pressing **FCN + 2**.

PWR C A L L - t 0 1 - 1 6
--

Minutes ——— 0 1 - 1 6 ——— Seconds

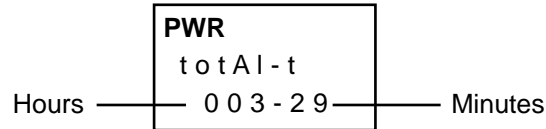
Note: The current call timer will be reset upon receipt or sending of another call.

RESETTING THE CALL TIMERS

Each **NAM** has a Total Time Counter. The Total Time of all incoming and outgoing calls are registered by these counters.

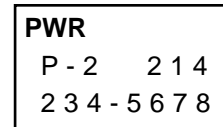
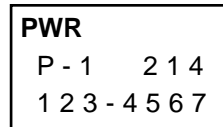
SINGLE - NAM

- o To View Total Time: Press **FCN + 1**.

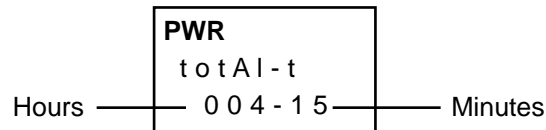


DUAL - NAM

- o To Change NAMs: Press **FCN + 6**. Press **6** to change.



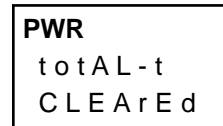
- o To View Total Time: Press **FCN + 1**.



RESETTING TOTAL TIME COUNTER

To reset the Total Time Counters:

- o Press **FCN + 1+ #**.
- o Enter **0000**.



- o Press **CLR** to exit.

BACKLIGHTING

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

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 + 7**.

Ring tone sounds at the last volume set.

PWR r i n g - 4

- 2) Use **VOL** key to step through the levels **0** thru **4**.

If you select level **0**, when a call is coming in, the display will flash, the **CALL** message will appear and flash.

USING THE PHONE ON TWO NETWORKS

The phone 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 + 6**.

PWR P - 1 2 1 4 1 2 3 - 4 5 6 7

2) Press 6.

PWR
P - 2 2 1 4
2 3 4 - 4 5 6 7

3) Press **CLR**. Phone will re-initialize on the NAM selected.

PAUSE DIALING

PAUSES - FCN + 9 . 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.

ROAMING (SYSTEM SELECT)

Each cellular service area can have two cellular service suppliers called carriers. One carrier is called the '**non-wireline**' or '**A**' system and the other carrier is called the '**wireline**' or '**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 **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 is comprised of the first 8 digits preceded by NEC's company code of 189.

To Select the Roaming Mode:

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

PWR S y S - S E L H - O n L y
--

Home Only

This service is limited to your home area.

- 2) Press **5** to advance through the system selections.

Sys A only

This service is limited to the 'A' (non-wireline) carrier only.

PWR S y S - S E L A - O n L y
--

Sys B only

This service is limited to the 'B' (wireline) carrier only.

PWR S y S - S E L b - O n L y
--

Standard

This 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.

PWR S y S - S E L S t A n d A r d
--

The **ROAM** indicator is displayed when the phone is using a system other than your home system. The roam systems your phone accesses can be specified through the use of system identification management, referred to as SID management. SID Management is described below.

PWR o o o o R O A M

SID MANAGEMENT

The SID Management feature lets the phone operate only within specifically identified (Preferred) systems. The service provider 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.

DTMF TONE

The DTMF Tone generator has two settings, Standard and Long. If the DTMF Tone generator is set to Standard, the phone sends each DTMF signaling tone for 100 milli-seconds. With the DTMF Tone generator set to Long, the phone sends each DTMF signaling tone for as long as the key is pressed, up to 3 seconds maximum.

1) Press **FCN + 4**.

PWR t o n E StA n d A r D
--

2) Press **4** to change.

PWR t o n E L o n 9

MUTE

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

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.

MUTE:

1) Press **FCN + 3**. This switches off the microphone.

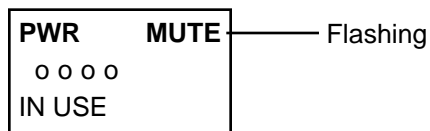
PWR MUTE
o o o o
IN USE

2) Press **FCN + 3**. This switches the microphone back on.

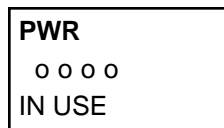
PWR
o o o o
IN USE

FULL MUTE:

1) Press **and hold FCN + 3**. This switches off both the microphone and earpiece or speaker.



2) Press **FCN + 3**. This switches the microphone and speaker back on.



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 the **PWR** indicator flashing. When this occurs, the phone will shut down automatically 60 seconds after the first indication.

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.

NAM PROGRAMMING

Consult your dealer for NAM Programming information.

TEMPORARY LOCK CODE SET

This function allows the user to program any 3-digit temporary lock code to lock or unlock the phone without revealing the personal 4-digit lock code.

Note: The 3-digit temporary code cannot be the same as the first three digits of your personal lock code.

1) Press **FCN + 0**.

PWR
E n t E r 3 d

2) Enter any three digits. Press the ★ key.

PWR
E n t E r C d

3) Enter your 4-digit lock code.

PWR
t - C d S E t

Note: Your 3-digit Temporary Lock Code is now set.

4) Press **CLR**. Phone returns to stand-by.

ONE-TOUCH DIALING

When One-Touch dialing is enabled, the user will have up to three (3) one-touch keys available. Each one-touch key corresponds to one of the first three (3) memory locations (**i.e. one-touch 1 = RCL 01**). When turned on this function will allow the user to press a single digit (**1 thru 3**)(Hold) and have the phone automatically display and dial (**SND**) the number residing in that memory location.

1) Press **FCN + 3**.(Stand-by Mode Only)

PWR
1 - t o u c h
O n

- 2) Press **3** to switch On or Off.
- 3) Press **CLR** to return to standby.

HANDS-FREE

This function operates only when phone is installed in the Simple Hands-Free Adapter and you are in conversation mode. **FCN + VOL** turns the Hands-Free function **On** or **Off**.

With Hands-Free mode On and the phone in the conversation mode, the display shows:

PWR	HF
o o o o	
IN USE	

To go out of the Hands-Free mode, press **FCN + VOL**.

PWR
o o o o
IN USE

Hands-Free OFF

PWR	HF
o o o o	
IN USE	

Hands-Free ON

CALLER LINE IDENTIFICATION

The caller line identification feature (where 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.

PWR	
CALL	2 1 4
5 5 5 - 1 2 1 2	

Incoming Call
Phone
Number

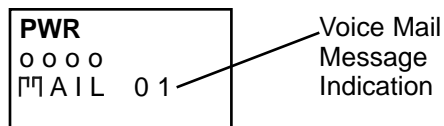
Once the incoming call is answered, the caller line identification information is removed from the display.

VOICE MESSAGING SERVICE

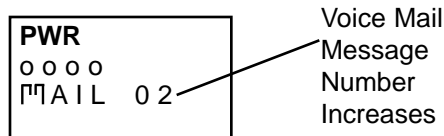
Cellular Digital Messaging Service (CDMS), if available through the cellular service provider in the area, is a voice message service for the cellular customer. When a cellular customer turns off or does not answer the cellular phone, or when the customer is currently on a call, CDMS answers the incoming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

VOICE MAIL MESSAGE INDICATION

When an incoming caller leaves a message through the cellular provider's digital messaging service, the cellular phone user is notified by a voice mail message indication. The type of voice mail message notification varies between cellular service providers. Upon receiving a voice mail message, the voice mail message indication is one of the following: a phone beep and displayed "MAIL" indication, a phone beep without a displayed indication, or a series of beeps generated by the service provider and transmitted to the phone user through the earpiece receiver when an outgoing call is made. The displayed indication is shown below.



If additional messages are received before the current voice message information is retrieved, the voice mail message number in the displayed indicator increases.



Voice messages can be retrieved from the messaging service by following the service provider instructions for voice message retrieval. Contact your service provider for information on availability of voice messaging services and for any additional information on voice mail messaging.

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 MAX™ 920 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) 751-7500, 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

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 + 8**.

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.

TECHNICAL INFORMATION

Dimensions	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	24
Memory Capacity	32 digits memory locations 1-24

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.

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

<u>Marketing:</u>	<u>Sales Agency:</u>
NEC America Inc.	NMI Corporation
Wireless Marketing Div.	14110 N. Dallas Parkway
1621 Walnut Hill Lane	Suite 300
Irving, Texas 75038	Dallas, Texas 75240
1-800-421-2141	1-800-CALL-NMI (225-5664)

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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	

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NOTES:

- o [X][X] = Memory Address 01 to 24.
- [X] = Memory Address 1 to 9.

KEY OPERATION TERMS:

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

BASIC OPERATION:**Power On/Off:**

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

Place A Call:

- o Key-in [Number]. Dial Number 6

Send A Number:

- o Press [SND] 6

Receive A Call:

- o Press Any Key Except [PWR] 7

End A Call:

- o Press [END] 7

CONVENIENCE FUNCTIONS:**Edit Display:**

- o Press [CLR]. Erase Digit. 9
- Press [CLR Hold]. Erase display 9

Backlight:

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

View Hidden Digits:

- o Press [FCN Hold].
 With Number Displayed. 10

Earpiece Volume Control:

- o Press [VOL] during standby. 7

View Own Number:

- o Press [MEM]+ 0 + 0 11

MEMORY STORING AND RECALL:**Store Number to Memory Address:**

- o Key-in Number. Press [FCN]+[MEM]+
 [Memory Location]. 9

Store Number to Occupied Address:

- o Key-in Number. Press [FCN]+[MEM]+
 [Memory Location]. Press [MEM]
 again to overwrite. 9

OPERATION SUMMARY Page**Store Number From Scratchpad:**

- o Key-in Number During Conversation. 11
Press [**FCN+MEM**]+[**Memory Location**].

Recalling Stored Numbers:**For Direct Recall**

- o Press [**MEM**] + [**Memory Location**]. 9
For Scanning All Locations.
- Press [**MEM**] # or *. 10

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