CDMA2000 1X RTT Fixed Wireless Telephone

Quick Start Guide & User's Manual

MODEL : AP Series

REVISED HISTORY

DATE	CONTENTS OF CHANGES	REMARK
Feb 28, 2005	Initial Release	

REFERENCE & WARNING

Please read this manual before operating the phone, and keep it for the future reference.

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Model Number: AP Series
Version: Initial Release, Feb. 28, 2005

Follow the directions on this page to start using your phone now. For more information, refer to the rest of this user manual.

SAFETY INFORMATION

WARNING

- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- Do not use this product near swimming pools or other bodies of water.
- Before using your phone, check your output voltage.

IMPORTANT

Before installing or operating this product read this information.

OPTIMAL PHONE PERFORMANCE

- Do not operate your product when holding the antenna, or when someone is within four inches (ten centimeters) of the antenna. Holding the antenna affects call quality and may cause the telephone to operate at a higher power level than needed.
- For the best call quality, keep the antenna free from obstructions and point the antenna straight up.
- Do not use the unit with a damaged antenna. Have your antenna replaced by a qualified technician immediately. Use only a manufacturer-approved antenna. Non-approved antennas, modifications, or attachments could impair call quality, damage the phone.
- RF energy may affect improperly installed or inadequately shielded personal medical devices such as pace markers, hospital monitor. Consult the manufacturer of any personal medical devices to determine if they are adequately shielded from external RF energy. Turn your terminal 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.

- If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

▷Reorient or relocate the receiving antenna

▷ Increase the distance between the radio or television and the telephone.

▷ Connect the equipment into an outlet on a circuit different from that to which the terminal is connected.

▷ Consult you Authorized AIJI Dealer of an experienced radio/TV technician for help.

- Use only the battery, antenna and AC power supply provided by AIJI. Using any other type will invalidate the warranty.
- Only authorized personnel should service the phone and its accessories. Faulty installation or service may be dangerous and may invalidate the warranty.
- Do not use the unit in designated "No Cellular Phone Use" area.
- Avoid exposure to high temperature or humidity.

- Avoid wetting the unit with any liquids. If the unit gets wet, turn the power off immediately and remove the backup battery and AC power supply. If the unit is inoperable, then return to the service agent for service.
- Avoid shock or impact.
- We recommend you to charge the backup battery before initial use. Backup battery may be discharged during delivery.

CARE AND SERVICE

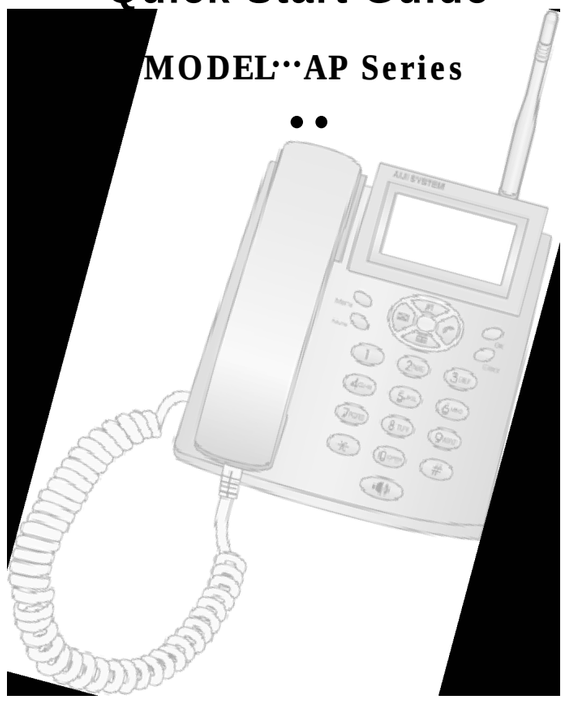
- Unplug the telephone from the wall outlet and remove antenna (or disconnect antenna cable) before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- If the unit fails for any reason, do not attempt to disassemble; contact the telephone service provider for assistance.
- If any of the following conditions exist; unplug the unit at the wall plug, remove battery, and call the service provider.

  ▷ The power supply cord is damaged or frayed.
  ▷ Liquid has been spilled into the unit.
  ▷ The unit has been exposed to rain or water.
  ▷ The unit has been dropped or damaged.
  ▷ The unit does not work normally by following the operating instructions.

CDMA2000 Fixed Wireless Telephone

Quick Start Guide

MODEL···AP Series



1. Getting to Know Your Phone

1.1 Key Definition

Key	Description
MENU	1. Activate MENU state (also MENU state in the call state)
	1. Activate SMS and Voice Mail state
MUTE	1. Set the [DND (Do Not Disturb)] function. It prohibits incoming calls when the phone is in the idle-state
	1. Send a dialed number when a call is placed and/or to redial and \ send the last number dialed
	1. Sound: 31 Ring tones/Alerts/Volume 2. Volume up (also function as a cursor in the edit state)
	1. Phone book 2. Volume down (also function as a cursor in the edit state)
OK	1. Store phone numbers and any settings you select in the menu within the phone's memory.
Clear	1. Delete the last digit/dial number (also exit without storing in the MENU state) 2. Deactivate a state - No store a value
	1. To make or receive a call using the speakerphone.

1.2 External Features

Features	Description
Antenna	Adjusting direction of antenna improves the voice and data quality
RF Connector	For connection to basic antenna or external antenna
DC Power Jack	For connection to power adapter
RS-232C port	For connection to PC for Internet
Power Switch	To turn on/off the phone

1.3 Icons

1.3.1 Standby Icons

Icon	Description	Icon	Description
	Signal strength in the service area.		Lock mode
	In use		Off-hook mode
	No Service		Alarm/Morning Call
	New message		Battery status
	Voice message		AC Power Mode

1.3.2 Sub Icons

Icon	Description	Icon	Description
	Message sent successfully		Mobile
	Message sending fail		Home
	Read Message		Office
	Locked Message		Other
	3-way Calling		Incoming Call
	Group		Outgoing Call
	Missed Call		

2. Basic Functions

Turn on your phone	1. Connect handset to the main set 2. Connect the antenna 3. Open the battery cover at the bottom of the main set and Insert backup battery. 4. Turn "ON" the battery switch. 5. Close the battery cover and connect the AC power supply.
Make a Call	1. Pick up the handset or press button. 2. Enter phone number
Answer a Call	When the phone rings, pick up the handset or press button
End a Call	Replace the handset or press button
Redial	1. Pick up the handset or press button. 2. Press button.
Speed dial (1- touch/2-touch)	1. Pick up the handset or press button. 2. For the location numbers of one digit, press and hold the corresponding digit key. For the other entry numbers, press the first digit key(s) briefly and hold down the last digit key.
Read new message	Press -> Inbox -> Select Card or Phone
Phone book search	Press button -> Enter the name

CDMA2000 1X RTT WLL Model : AP Series

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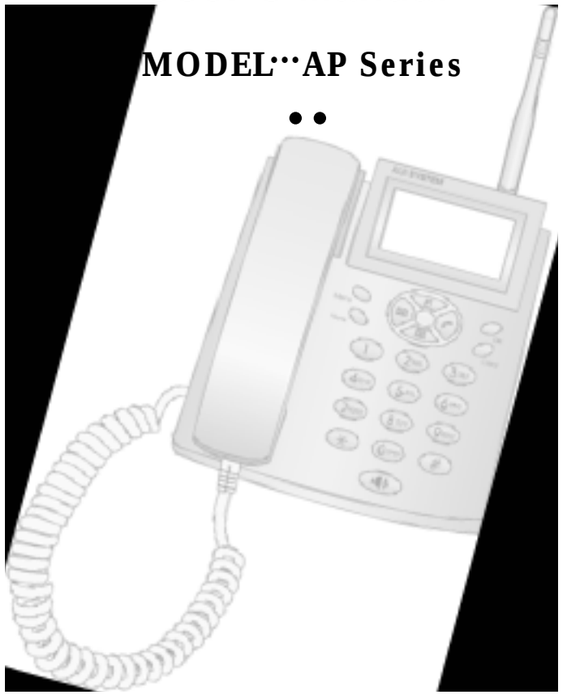
MODEL···AP Series



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Chapter 1. Introduction

1.1 Highlights and Features of AP series

Thanks for purchase of the AP Fixed Wireless Telephone. This telephone has been designed to operate on the latest CDMA 2000 1x RTT technology. This technology has greatly enhanced voice clarity and can provide various advanced features. Basically this telephone is designed for the desktop and the use in the office and a house. This can be easily installed in any place using the wall mount bracket (Optional Accessory).

The telephone provides:

- 4-line LCD display with status indicator.
  - 8-line LCD display to view text message easily.
- 128 x 64 Graphic LCD display.
- Window UI (Graphic User Interface): Pop-Up Animation Menu.
- Phone book
  - 200 memory locations to store names and telephone numbers in the phone.
  - Store name, 4 phone numbers (Mobile/Home/Office/Other), group and ring sound per location.
  - Group editing available.
- Brilliant 16-polyphonic midi sound
- A choice of 31 rings and melodies.
- Alarm (Morning Call): Various setting options (Once/Daily/Weekdays only (Mon ~ Fri)/Weekends)
- 50 text messages can be stored in the phone.

- 99 Voice Mail.
- Call History (Record&Time):
  Recent_30/Incoming_20/Outgoing_20/Missed_20
- Speed dialing (1- touch, 2-touch and 3-touch) with a 200 number memory.
- Call Forwarding/Call Waiting/Caller ID/Last Number Re-Dial
- Alert (No Service / Minute Minder / Connect Tone / Disconnect Tone)
- Emergency Call
- Hot Line
- Restrict Call
- Security
- Internet connection up to 153Kbps through RS-232C serial data port.
- Support the Authentication Key (A-Key)
- Various supplementary services such as Last Number Redial, Dial Tone and On Hook etc.
- Optional Functions: R-UIM, Speaker phone, LCD backlight, Button backlight

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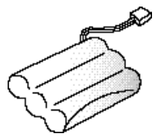
1.2 Check Components

• Your package contains the following items. The illustrations below may look different from your phone and accessories;

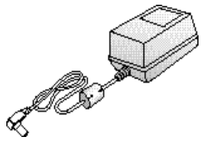
[Main Unit with handset]

[Dipole Antenna]

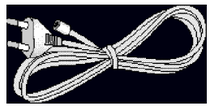


[Backup Battery]

[User's Manual]



[AC/DC power Adapter]



[Power Cord]

- In addition, you can obtain the following accessories for your phone from our local dealer in your country.

1) RS-232C Data Cable

2) Wall Mount Bracket

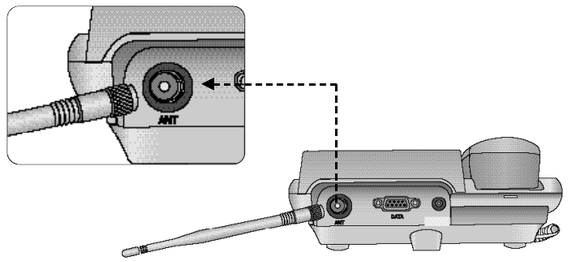
- Please make sure that these components are present before you begin the unit installation. And then compare the following figures and components. If components are missing or damage is found, contact the store where you purchased the unit immediately.

1.3 Installation

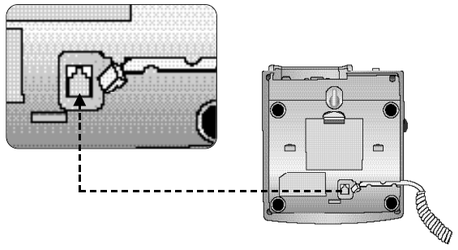
You should follow each step carefully as shown below in order to guarantee proper operation of CDMA Fixed Wireless Telephone.

1.3.1 Connect Components (See the figures in "Installation Steps")

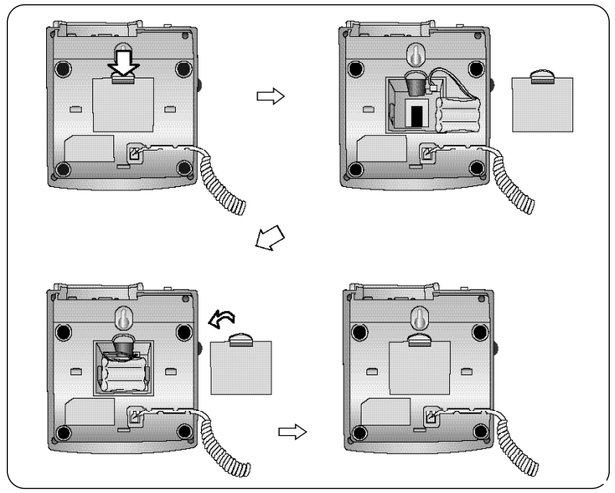
- Connect the antenna to the TNC antenna connector located at the top side of the terminal. If you placed the terminal on the flat surface, bend the antenna up right.



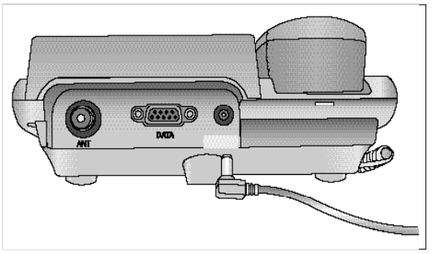
- Connect curl cord of handset assembly to the RJ-11C port located at the left side of the terminal.



- Open the battery case, securely connect the battery cord, place the backup battery pack and close the case.



- Check output voltage.
- Connect the AC/DC Adapter cable to the DC input port located at the topside of the terminal.



▷If it is good, beep tone is heard.
▷it is not good (Booting is fail or beep tone is not heard), you have to connect the adapter or backup battery, again.

- Please follow the below to get better voice quality;

1) Keep away from electrical appliances such as TV, computer, radio and so on.
2) Keep terminal in a high and central location with no obstructions, such as metal walls.
3) Raise the integral antenna of terminal to get maximum strength of receive signal as shown figure at the next page.

1.3.2 Installation Steps

Please follow the below procedure to install the unit properly.
1) Connect Base handset to the handset connector.
2) Connect the antenna to the TNC connector (Turn right).
3) Bend the antenna up right.

4) Open the battery cover at the bottom of the main unit.
5) Insert back-up battery in the bottom of the main unit. (Give care to polarity)
6) When you use terminal first, please turn "on" the battery switch.
7) Replace the Battery cover.
8) Connect the AC power supply.

Notice

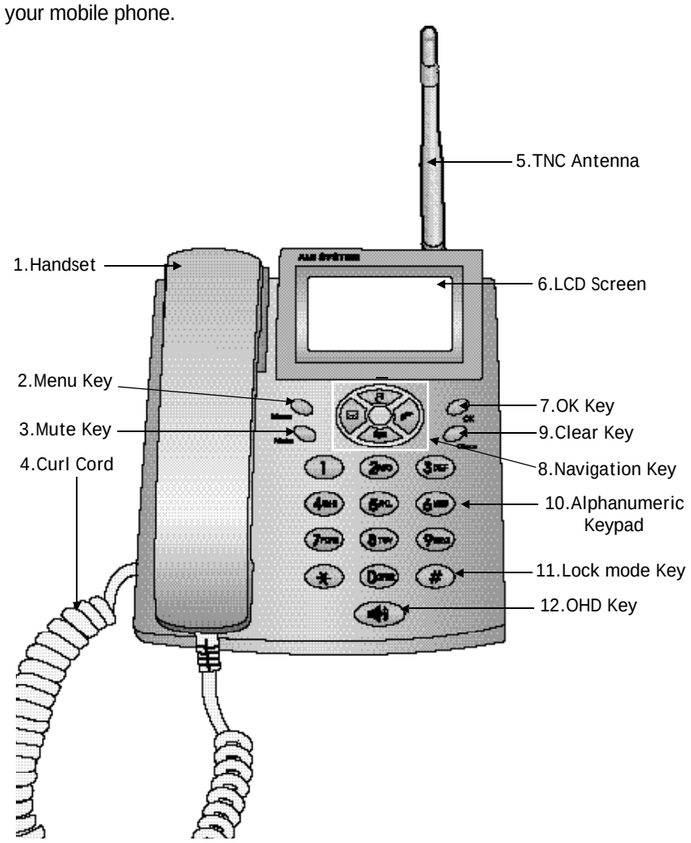
Before using the terminal,please check battery switch is on, after switching on it, use the phone.

1.3.3 Place the Terminal

- Place the terminal on the stable flat secure surface area (desk, table, etc.). Serious damage may result if the unit falls. Do not place the unit on, or within 1 meter of heaters or radiators. This unit is designed for desktop usage. Avoid direct exposure to the sunlights and damp area.
- Read the SAFETY INFORMATION located at the first part of this document before you place the terminal.

1.4 Phone Overview

The following shows key components of your mobile phone.



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1.4.1 Key Definition

Key	Description
MENU	1. Activate MENU state (also MENU state in the call state)
	1. Activate SMS and Voice Mail state
MUTE	1. Set the [DND (Do Not Disturb)] function. It prohibits incoming calls when the phone is in the idle-state
	1. Send a dialed number when a call is placed and/or to redial and \ send the last number dialed
	1. Sound: 31 Ring tones/Alerts/Volume 2. Volume up (also function as a cursor in the edit state)
	1. Phone book 2. Volume down (also function as a cursor in the edit state)
OK	1. Store phone numbers and any settings you select in the menu within the phone's memory.
Clear	1. Delete the last digit/dial number (also exit without storing in the MENU state) 2. Deactivate a state - No store a value 3. Press this key once in a menu, to go back one level.
	1. Off Hook mode 2. To make or receive a call using the speakerphone.

1.4.2 External Features

Features	Description
Antenna	Adjusting direction of antenna improves the voice and data quality
RF Connector	For connection to basic antenna or external antenna
DC Power Jack	For connection to power adapter
RS-232C port	For connection to PC for Internet
Power Switch	To turn on/off the phone

1.4.3 Viewing the Display Screen

The LCD shows icons on the top of the LCD screen. The icons indicate the setting status and operating status of the phone.

Icon	Description	Icon	Description
	Signal strength in the service area.		Lock mode
	In use		Off-hook mode
	No Service		Alarm/Morning Call
	New message		Battery status
	Voice message		AC Power Mode

1.4.4 Check the LCD Display

- After you follow the installation instruction 1.3.1 to 1.3.3, please check the LCD for normal operation.
- If you may not see status of service, please repeat the 5th instruction of 1.3.2. And conform Fixed Wireless Telephone to get the proper signal strength from service operator system.

※The adapter type(with power cord) may be different by country adaptation.

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Chapter 2. General Functions

2.1 Making a Call

When you make a call, follow these simple steps:

1) Make sure your phone is turned on.
2) Pick up the handset or press button.
3) Listen for dial tone. If the service is not available, you hear a no service tone.
4) Enter the phone number, with area code (if needed).
5) Wait for the Auto Time-out or press
   - If the phone is locked, take the following step.
   MENU → 6. Security Enter Password → 1 Lock Phone Select ⊙ **Unlock**
   - Call Failed indicates that the call did not go through. Please check Antenna Icon and call again a few minutes later.
6) The call is connected and you can start conversation.
7) To end the call, replace the handset or press button.

Tip 1: To redial your latest outgoing call, press to dial.

Tip 2: Your phone offers many different ways to make calls, including Speed Dialing ("Using One / Two / Three Speed Dialing" on page 30) and using Call History ("Viewing Call History (Incoming, Outgoing and Missed)" on page 37).

Tip 3: **This phone has been restricted** If this message displays on your screen, then outgoing calls are in restricted mode. You can only dial phone numbers saved in Emergency.

- If you want to turn off this function, take the following step.

MENU → 6. Security → Enter Password → 3 Restrict
→ 2 Outgoing Call → Select ▣No

Tip 4: When speed dialing is enabled, type in the phone book entry number and hold the last digit until the call is made.

2.2 Correcting Dialing Mistakes

If you make mistakes while dialing a number, press Clear once to erase the last digit entered or hold down Clear or at least two seconds to delete all digits.

2.3 Receiving Calls

1) Make sure your phone is on. If your phone is off, incoming calls go to voicemail.
2) When phone rings, pick up the handset (or press (Optional function)).
3) Start conversation.
4) To disconnect the call, replace the handset (or press (Optional function)).

2.4 Lock Mode (Quick)

Use to prevent others from using your phone.

1) In standby mode, to activate the Lock Mode quickly, press the # for 3 seconds. Lock mode Setting! will be displayed.

The lock code (password) is commonly the last 4 digits of your phone number.

Note To cancel the Lock Mode, Press MENU → 6. Security Enter Password 1 Lock Phone Select Unlock

2.5 Call Waiting / Call Forwarding

This menu contains network services, which allow you to forward incoming calls when you can't answer a call, to receive a second call. Please contact your service provider to check their availability and details.

2.5.1 Call Waiting

Your WLL service may offer a call waiting function. While a call is in progress, you may hear two beeps indicating another incoming call. When call waiting is enabled, you may put three active calls on hold while you answer the other incoming call.

1) Press to receive a waiting call.
2) Press again to switch between calls.

2.5.2 Call Forwarding

This feature enables incoming calls to be rerouted to a number that you specify. For example, you may wish to forward your business calls to your mobile phone while you are not in the office.

2.6 Mute

The mute function prevents the other party from hearing your voice, but allows you to hear the other party.

1) Press MUTE during a call.
2) To cancel Mute, press MUTE again.

2.7 Redialing Calls

1) Press to redial the last number in call history (Recent Calls).
   - You can also redial any of the last 60 numbers you have dialed, received and missed. The last 30 numbers are stored in the call history (Recent Calls) list. (See the Call History List on page 37.)

2.8 Adjusting the Volume

The volume keys on the top side of the phone can be used to adjust the earpiece, ringer, and keypad beep volumes. The upper key ( ) is used to increase and the lower key ( ) is used to decrease the volume.

- You may adjust the earpiece volume during a call.

2.9 Signal Strength

The call quality depends on the signal strength in your area. The current signal strength is displayed on the screen as the number of bars next to the signal strength icon: The more bars, the better the signal strength. If the signal quality is poor, move to an open area. If you are in a building, the reception may be better near a window. For maximum reception, make sure that the antenna is fully extended.

2.10 Caller ID Display

Caller ID lets you know who is calling by displaying the number of the person calling when your phone rings. If the caller's name and number are already stored in your phone book, the corresponding name appears with the number.

Tip 1: The LCD of the phone displays information such as:

- Date and Time
- Caller ID (caller's information [name and/or number])
- Number of missed calls
- Number of new messages
- No service status and Power Save Mode.

The phone will display most recent information.

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2.11 Speed Dialing

Speed dialing is a convenient feature, which allows you to make phone calls quickly and easily. Your phone recalls the phone number from your personal directory, displays it briefly and then dials it.

1) From off-hook stage, press the memory number (1 through 200) corresponding to the appropriate entry, and hold for a few seconds.

Tip 1: You should check with your service provider to ensure they offer this feature.

2.12 Phone Book Features

You can store up to 200 entries in your phone book with easy access to your most frequently dialed phone numbers and make a call by pressing entry number in off-hook state.

2.12.1 Personal Phone Book Memory

The phone has 200 personal phone book entry numbers where you can store up 4 phone numbers with 16 digits for each phone number

2.12.1.1 Saving Numbers in Your Personal Phone Book

1) Input the phone number that you want to save (up to 16 digits).
2) Press MENU → Select '1.Save' → Press OK
3) Select your desired label types Mobile, Home, Office, Other using the upper key ( ) and the lower key ( ).
4) Enter a name for the phone number (up to 16 characters)Press OK .
   If you do not want to enter a name, go to the next step.
5) You may select the desired ID ring type and group
   No Group, Family, Friend, Office, Other.