

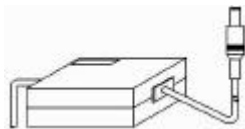
1. Introduction

Thank you for purchasing this product. Please check whether the product package contains the following items. If there are missing items, please call the service center.

1. Phone



2. Power Supply(SMPS)



3. Antenna



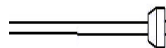
4. Installation Panel



5. User's Manual



6. Power Cord

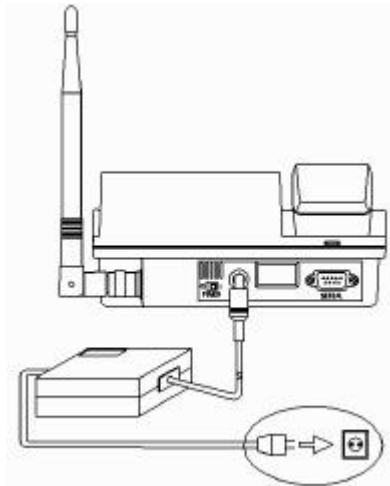
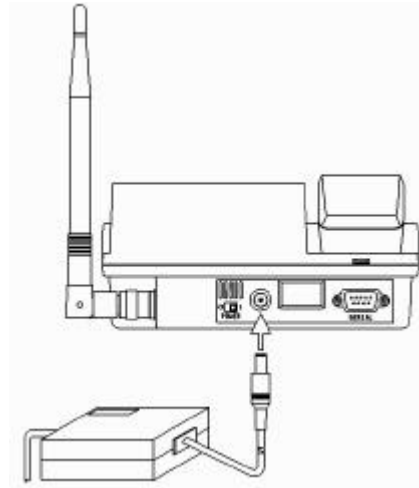


7. Screws



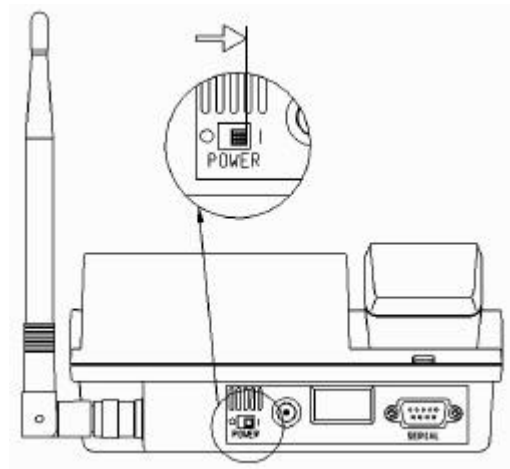
1.1 Installation Procedure

Connect the DC jack to the back panel of phone as shown in the figure below.



Connect the plug of the SMPS to a power outlet and to SMPS for the phone.

Turn power on by moving the switch button to the right as shown following figure, and then the phone is initialized with power-up sound.



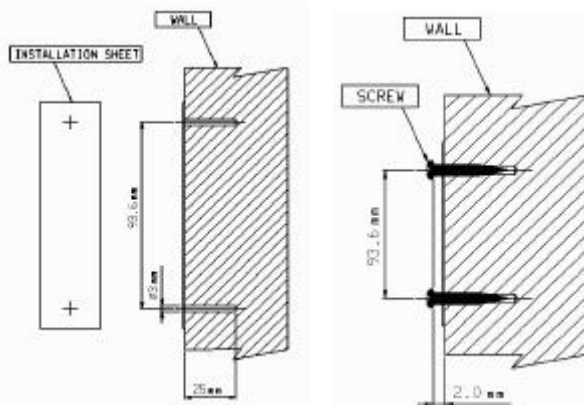
Adjust the antenna direction until the maximum Antenna power sign is displayed on the LCD screen.
(Each bar indicates the received signal strength. The more bars mean the higher signal strength, the better service condition.)

See 2.1 Power-Up / Power-Down

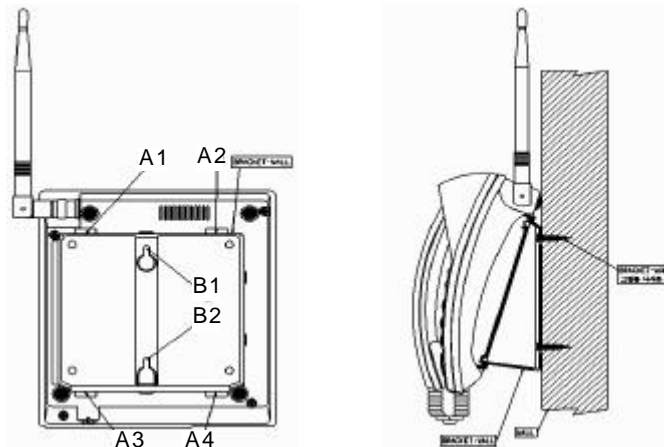
1.2 Installation of the Wall Bracket

Before finalizing the precise location of the phone, please perform the signal strength test to find the best location after the unit is assembled.

In case of the concrete wall, make 3mm holes with a drill at the marked location and attach the Installation Panel. When install mounting screws, do not screw in all the way. Leave 2mm space between the screw head and the installed panel.



On the bottom of the phone, please find the wall mounting slots(A1 ~A4). Install A1 and A2 onto the top screws. And then push the wall mounting slots A3 and A4 onto the bottom screws so that the phone is finally seated.



1.3 Panel Overview

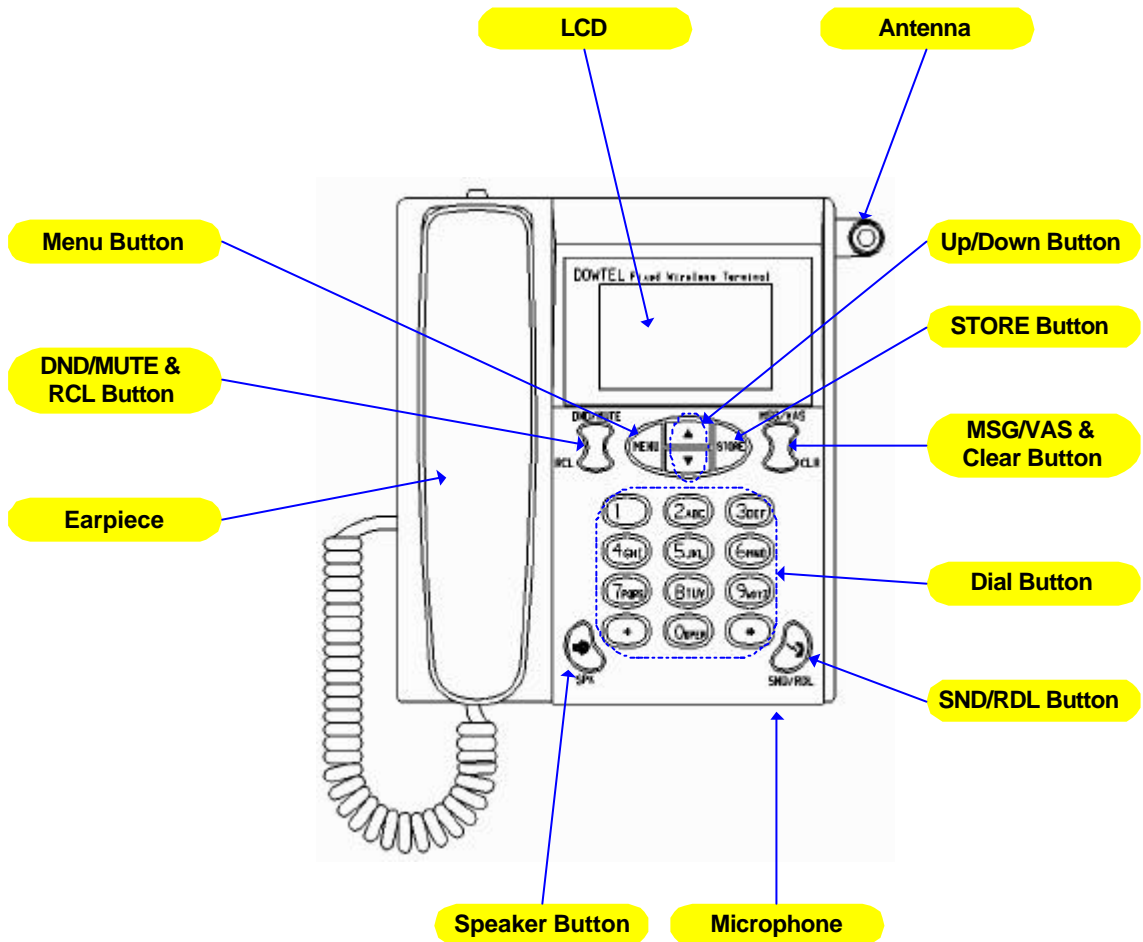


Figure: 1.2 - 1

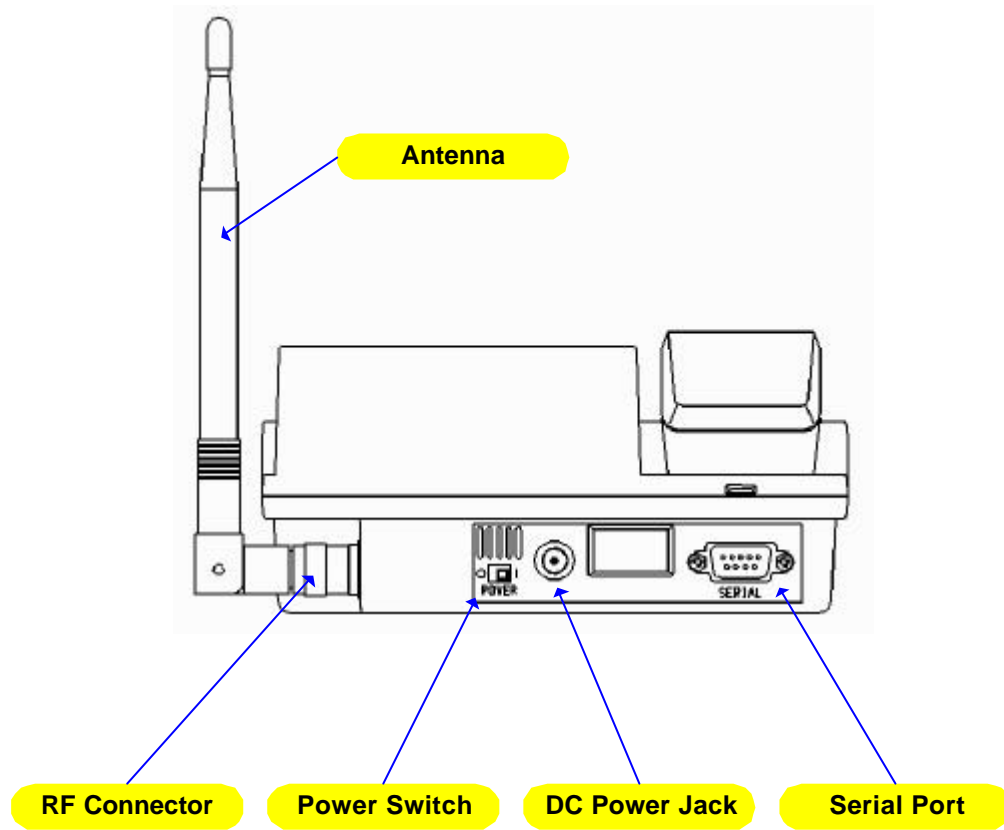


Figure : 1.2 - 2

1.4 Safety Instructions

Basic safety precautions should always be followed to reduce the risk when using this unit.

- **Read and follow all instructions marked on the product.**
- Do not disassemble this unit to reduce the risk of electric shock. When the unit is subsequently used, incorrect reassembly can cause electric shock. When service is required take the unit to an authorized service center.
- Do not hold or contact the antenna while a call.
- Do not overload the wall outlets and the extension cord.
- Do not use this product near the water and never spill any liquid on the unit. This may result in the risk of fire or electric shock.
- Do not place this product on unstable location (cart, stand or table). This may result in the risk of serious damage if this product may fall.
- Do not cover slots and openings on the unit. This product is provided for ventilation and protection against overheating. Do not place this product near the heater or radiator where proper ventilation is not provided.
- This product should be operated from the type of power source marked on the product. If you are not sure of the type of power available, consult with your dealer or local power company.
- Never push objects of any kind into this product, since this may result serious voltage short. It can result in the risk of fire or electric shock.
- During thunderstorms, avoid using this product. There may be a remote risk of an electric shock from lightning.
- Unplug this product from the wall outlets and refer servicing to an authorized service center under the following conditions:
 - When the power supply plug is damaged or frayed.
 - If liquid has been spilled into this product.
 - If this product has been exposed to water or rain.
 - If this product does not work properly when the operating instruction are followed.
 - If this product has been dropped or damaged.
 - If this product exhibits a distinct change in performance.

2. Before Using

2.1 Power-Up / Power-Down

2.1.1 General Power-Up

Manufacturer's logo will be displayed for 1 second when the power is turned on.



Figure : 2.1.1-1

The screen (figure 2.1.1-2) will be displayed with the power-up sound.

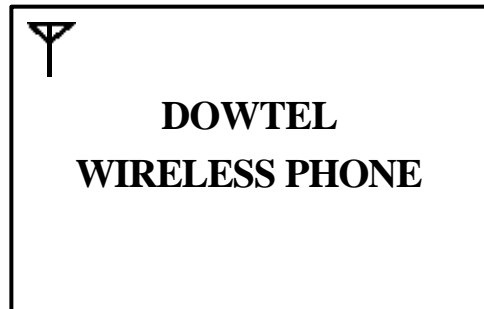


Figure : 2.1.1-2

If the phone receives the signal from the Service Provider, the screen displays the default date and time set by factory. (figure 2.1.1-3)

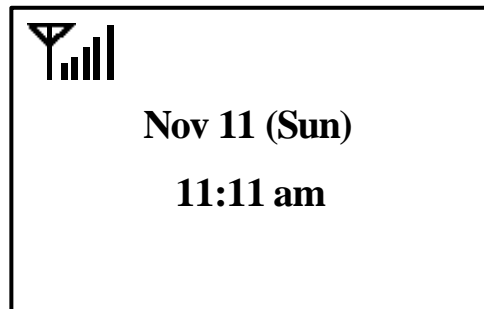


Figure : 2.1.1-3

2.1.2 No Service

If “No Service” message is appeared like the figure 2.1.2, the location where the phone is installed may be the area of which the signal from the Service Provider is not delivered to the phone.

If the number of bar beside the Ant. symbol on the screen in figure 2,1,1-3 is small, it means the received signal strength is weak. < Reference 2.3.1 RSSI Icon>

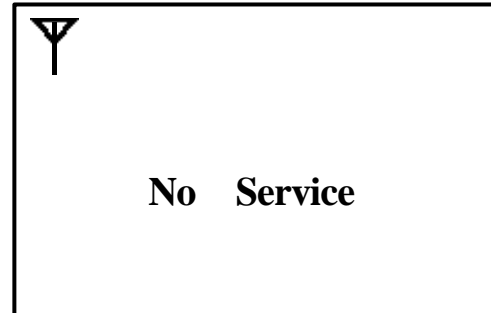


Figure : 2.1.2

In this case, adjust the direction of antenna until the number of bar is displayed as many as possible.

If the condition like figure 2.1.2 is continued or the number of bar is small despite of changing the direction of antenna, please ask the service center.

2.1.3 Registration Required

If “Registration Required” message is appeared like figure 2.1.3, it means this phone cannot be registered to the Service Provider.

In this case, report to the Service Provider immediately.

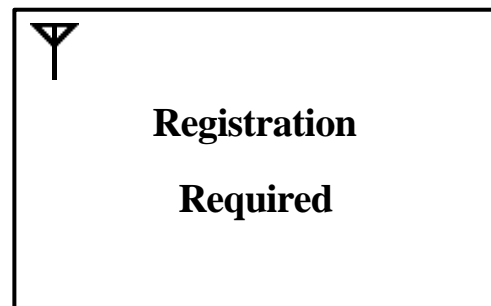


Figure : 2.1.3

2.1.4 Power

Two types power is used in this phone.

- AC power : 100 ~ 270 V
- Internal Battery

If the AC power is suddenly disconnected to the phone by a power failure or any reason, the power source is automatically changed from AC power to internal battery. When the status of power switch of the phone is turned on, the phone normally works as long as you disconnect the AC power.

If you don' t want the power entirely, you must turn off the power switch.

2.2 Keypad

As shown in the figure below, there are 12-Dial Button and 10-Function Button in this phone.

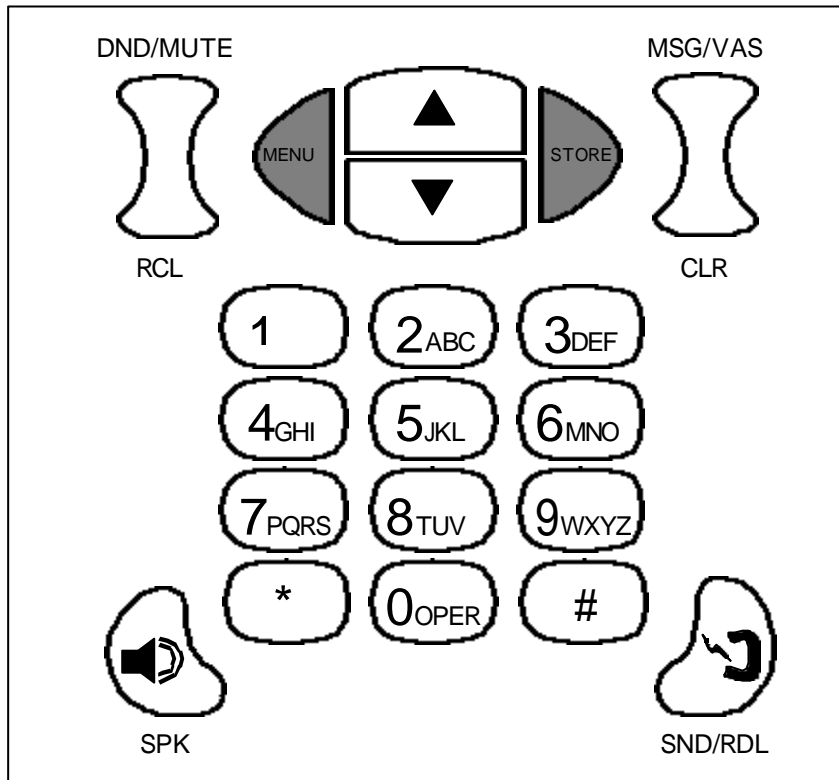


Figure : 2.2.1

2.2.1 DND/MUTE & RCL

DND/MUTE



RCL

DND/MUTE

- Use this button to set on/off the [DND(Do Not Disturb)] function if you don't want to answer the incoming call in idle-state. (Reference 3.8)
- Use this button to set on/off the [MUTE] function if you don't want to send sound to the calling party through the handset or microphone during the conversation.

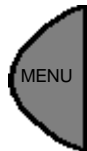
RCL

Use this button to find the last dialed phone number and to search the stored number in the Phone Book.

<Note>

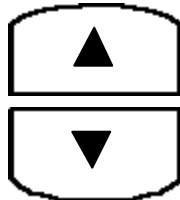
DND/MUTE & RCL and MSG/VAS & CLR buttons are designed as an one-button as shown in figure 2.2.1. But these buttons separately operate the upper side and bottom side of the button to work their own function.

2.2.2 MENU



Use this button to set the [MENU] mode or return to Idle-state.

2.2.3 UP / DOWN



Use this button to set the [MENU] mode, adjust the ringer and voice volume, and store/find the phone number in the Phone Book.

2.2.4 STORE



Use this button to store the Phone Numbers and setting-value under the [MENU] mode.

2.2.5 MSG/VAS & CLR (Clear & Recall)

MSG/VAS



CLR

MSG/VAS

- Use this button if you want to retrieve the text message of SMS(Short Message Service) transmitted and received during the idle-state.
- Use this button to make a call to VMC(Voice Message Center) direct to retrieve the voice mail after picking up the handset or setting the speakerphone on.

CLR

Use this button to erase the number when you dialed incorrectly or when you stored the number in the Phone Book incorrectly.

2.2.6 SPEAKER [SPK]



Use this button to make a call or receive a call by using speaker phone.

2.2.7 SEND & REDIAL [SND/RDL]



Use this button to send the dialed number when you make a call and redial the last number dialed.

2.2.8 Dial Button(0~9, *, #)

- Use this button to store the phone number
- There are small alphabets beside the numeric number on the each Dial Button. It is used to store the name related with the phone number when you want to store the phone number.

<Example for use>

If you want to store "DOWTEL3", follow below procedure.

<u>3</u>	<u>6 6 6</u>	<u>9</u>	<u>8</u>	<u>3 3</u>	<u>5 5 5</u>	<u>3 3 3 3</u>	[STORE]
D	O W	T	E	L	3		

As shown in the example above, the output alphabet character is serially displayed on the LCD screen when you press the button repeatedly.

<Note>

You can store the name with only uppercase character.

2.3 ICON

The various icons are displayed in the first line on the LCD screen to indicate the setting-status and operating-status of the phone.

2.3.1 RSSI Icon



- Indicate the strength of received signal. It is closely related with the quality of service.
- There are 5 bars with different length. It is the best condition if all bars are displayed beside the Antenna symbol.
- When there is only 1-bar on the screen, it means poor service condition. With flashing icon, the phone is capable of only marginally dependable phone operation, means phone can be disconnected.
- When there is no bar on the screen, you cannot make a call because there is no received signal from the service provider in your area.

2.3.2 Connecting Icon



- Indicate the phone is processing a call when you press the [SND/RDL] button to make a call.
- This icon is displayed with the "Connecting.." message.

2.3.3 Off-Hook Icon



- Indicate the Hook Switch Mode of the phone.
- It is displayed when the handset is picked up from the phone.

2.3.4 Speaker Phone Icon



- Indicate the phone is in Speaker Phone Mode.
- It is displayed when you attempt to make a call using the speaker and microphone.

2.3.5 Voice Mute Icon



- Indicate the status that the user's voice, any surrounding sounds, and keypad tone are not transmitted to the calling party.
- When you set this function on during a conversation, No sound will be transmitted.

2.3.6 PC Fax Receiving Mode Icon



- Indicate the status that the phone is set in PC Fax Received Mode to receive the fax using data service.
- "Fax Rcv Mode" message is displayed in the bottom line on the screen with this icon.
- If a call is received, the Fax Utility connected with the phone in the PC is automatically answered and received the fax. And you cannot speak through the handset or speakerphone.
- You can make a call while in this mode.

2.3.7 Modem Receiving Mode Icon



- Indicate the status that the phone is set in Modem Received Mode to transmit/receive the file using data service.
- "Modem Rcv Mode" message is displayed in the bottom line on the screen with this icon.
- If a call is received, the Communication Utility connected with the phone in the PC is automatically answered and received the file. And you cannot speak through the handset or speakerphone.
- You can make a call while in this mode.

2.3.8 Battery Icon



- Indicate the strength of the battery installed inside the phone
- The battery strength is displayed 5-step.
- When the battery strength is weakening, the phone beeps to request the recharge of the battery.

2.3.9 DND (Do Not Disturb) Icon



- Indicate the status that user set DND function on to deny the incoming call when user don't want to answer the incoming call.
- During this icon is flashing, the phone doesn't answer to the incoming call.

2.3.10 Message Icon



- Indicate the status that the phone is received the Text Message and/or Voice Message.
- When the message is received, this icon is displayed on the screen with the indicate-tone.
- You can read the received message and retrieve the voice mail through the Voice Mail Center (VMC) in the system using the [MSG/VAS] button.

2.4 Sound & Tone

2.4.1 Power-up Sound

When you turn on the power of the phone, The phone starts with the beep-sound.

2.4.2 Dial Tone

This sound indicates that the phone is able to connect with the system and you can make or receive a call

2.4.3 Warning Tone

When the phone is unable to connect with the system or the handset is incorrectly placed on the phone, it beeps through the handset or speaker.

2.4.4 Howler Tone

It beeps for 30 seconds through the speaker when same situation is continued even though the warning tone is stopped.

2.4.5 Keypad Tone

When you push the keypad, it beeps through the speaker or handset.

2.4.6 Ring Sound

When a call is being received, it beeps through the speaker.

2.4.7 Alert Beep per 1 min

When you make a call, it beeps every 1minute during the conversation.

2.4.8 Low Battery Warning Tone

When you use the phone using the internal battery, it beeps through the speaker when the battery strength is weak.

2.4.9 SMS/VMS notification tone

It beeps through the speaker when the phone is received the SMS or VMS message.

2.4.10 Error Beep Tone

It beeps when the user push the keypad incorrectly. In this case, the incorrect operating is ignored.

3. Basic Function

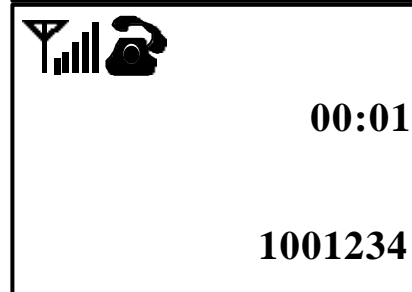
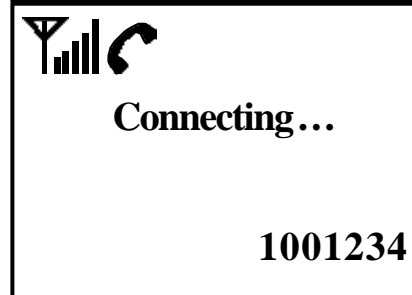
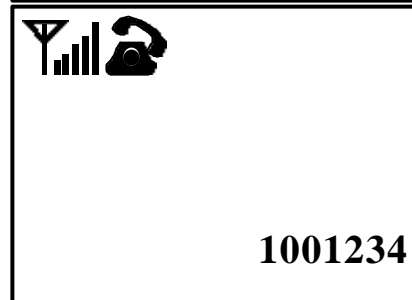
3.1 Making Calls

3.1.1 Using the Handset

Pick up the handset and dial the phone number you want to make a call.

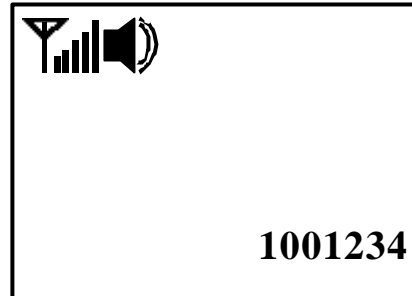
Press the [SND/RDL] button

The call is connected.

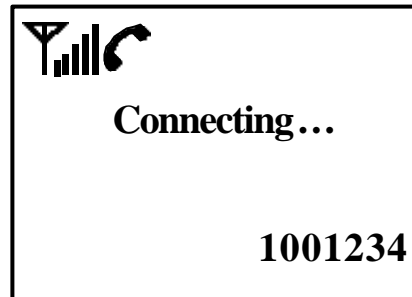


3.1.2 Using the Speaker Phone

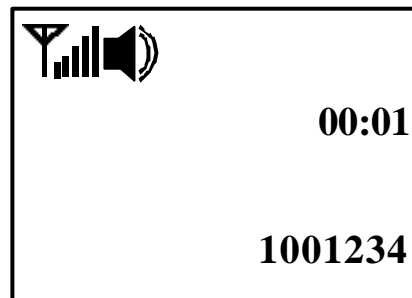
Press the [SPK] button and dial the phone number you want to make a call.



Press the [SND/RDL] button.

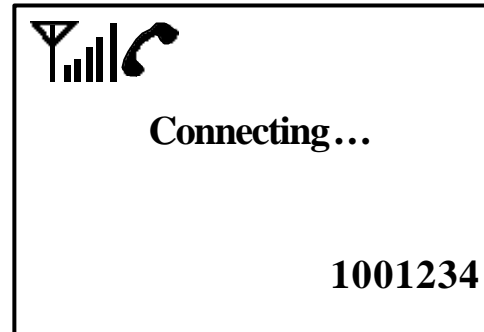


The call is connected.



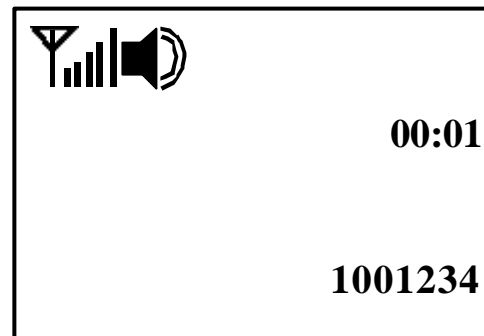
3.1.3 On-Hook Dialing

Dial the phone number, and then press the [SND/RDL] button.



(figure 3.1.3-1)

The speaker phone operates automatically, and then the call is connected.

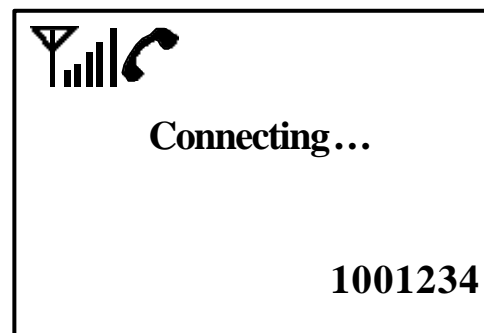


(Figure 3.1.3-2)

3.1.4 Redial the Last Number called

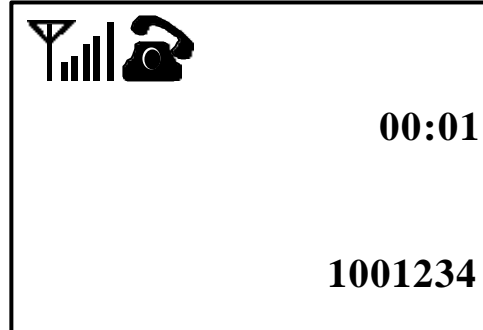
<Method 1>

Pick up the handset or press the [SPK] button, and then press [SND/RDL] button.



(Figure 3.1.4-1)

The last number dialed is connected automatically.

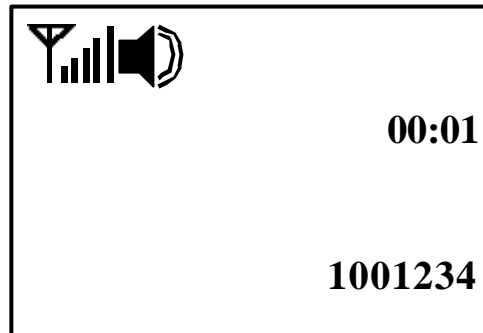


(Figure 3.1.4-2)

<Method 2>

Press the [SND/RDL] button, and then the speaker Phone operates automatically.

The last number dialed is connected.



(Figure 3.1.4-3)

3.1.5 Speed Dial

You can store up to 99 phone numbers in this phone using 2-digit addresses (01~99). The stored numbers in the Phone Book allow you to make a call simply by just press these addresses.

And you can search and edit the number in the Phone Book. The method of store/search/edit of the phone number is explained next chapter.

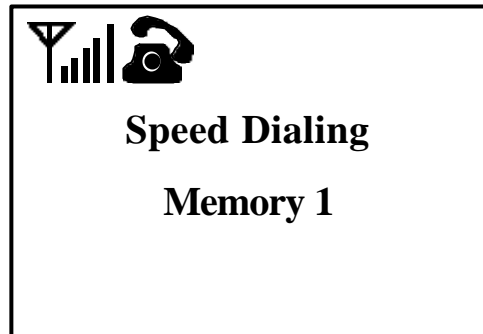
3.1.5.1 One-Touch Dialing

This function allows you to simply make a call just pressing the memory station number ([0] ~ [9]).

<Method 1>

Pick up the handset or press the [SPK] button.

Press the memory station number stored in the address [1] ~ [9] for over 2 seconds then the stored number dialed, or press the memory station number shortly, and then press the [SND/RDL] button.

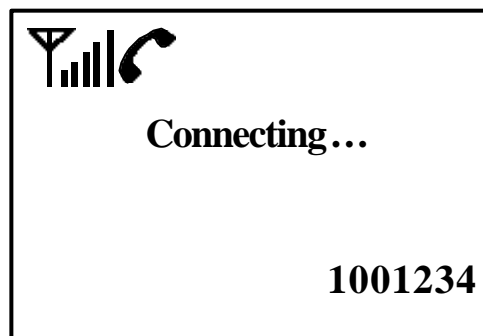


(Figure 3.1.5.1-1)

(Example)

When you want to make a call to the number stored in address [1], press the [SND/RDL] button after press [1] button shortly or press [1] button for over 2 seconds.

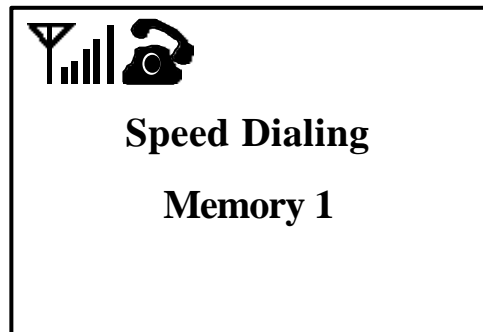
The number in the Phone Book is connected.



(Figure 3.1.5.1-2)

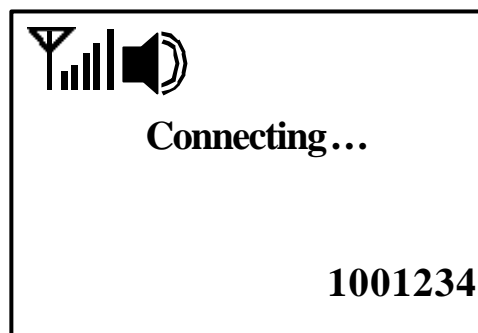
<Method 2>

Press the button of the phone number stored in the address [1] ~ [9], and then press the [SND/RDL] button.



(Figure 3.1.5.1-3)

The speaker phone operates automatically and the phone number stored in the Phone Book is connected.



(Figure 3.1.5.1-4)

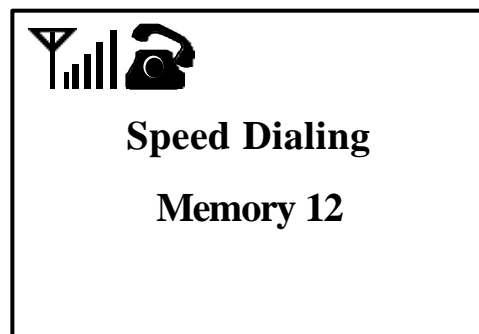
3.1.5.2 Two-Touch Dialing

This function allows you to simply make a call using the phone numbers stored in addresses 10 through 99.

<Method 1>

Pick up the handset or press the [SPK] button.

Press the first number shortly, and then press the second number over 2 seconds of the phone number stored in any of address [10] ~ [99].

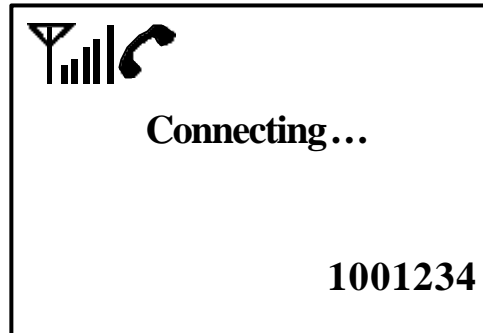


(Figure 3.1.5.2-1)

(Example)

When you want to make a call to the number stored in address [12], press the [1] button shortly and press the [2] button for over 2 seconds or press the two buttons, and then press the [SND/RDL] button.

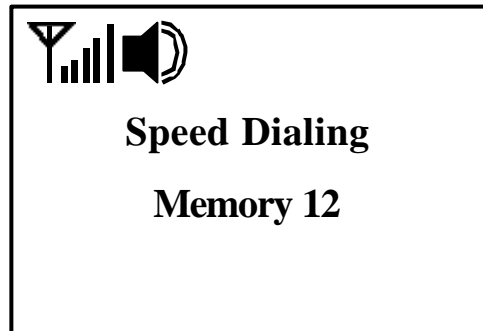
The number in the Phone Book is connected.



(Figure 3.1.5.2-2)

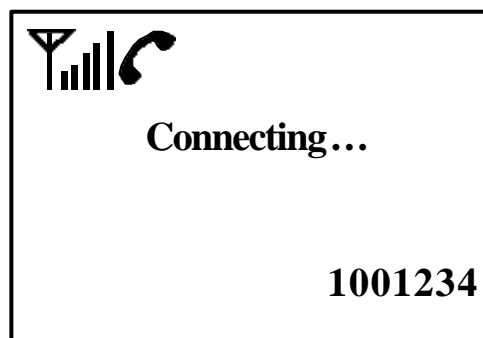
<Method 2>

Press the button of the phone number stored in any of Address [10] ~ [99], and then press the [SND/RDL] button.



(Figure 3.1.5.2-3)

The speaker phone operates automatically and the phone number stored in the Phone Book is connected.



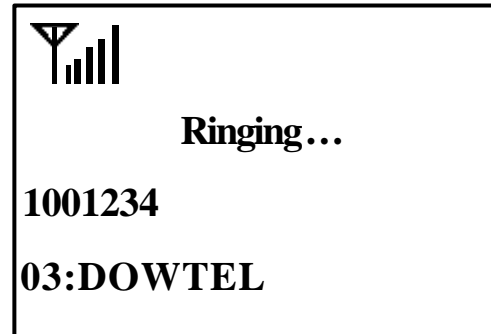
(Figure 3.1.5.2-4)

3.2 Answering Calls

3.2.1 On-Hook State

When a call is being received, the phone rings.

If you subscribe a caller ID service, the calling party information will be displayed in the third line on the screen. And the information will be displayed in the fourth line on the screen if the calling party number is stored in your Phone Book.

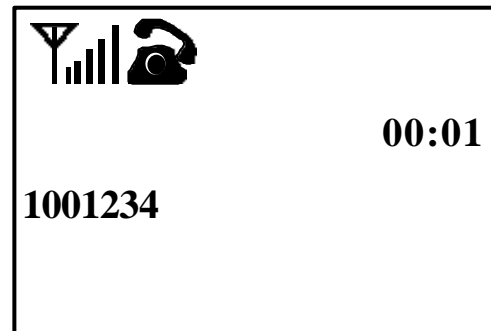


(Figure 3.2.1-1)

<Note>

The calling party information is not displayed unless the service provider provides the Caller ID service.

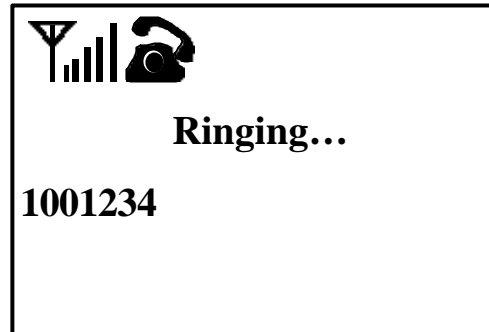
Pick up the handset or press the [SPK] button, and then the call is connected.



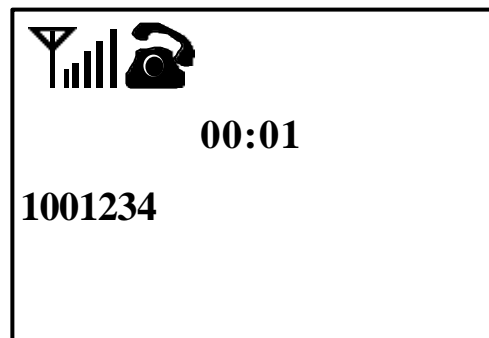
(Figure 3.2.1-2)

3.2.2 Off-Hook State

If a call is being received when the handset is picked up or the speaker is on, click the Hook Switch or press [SPK] button, and then the call is connected.,



(Figure 3.2.2-1)



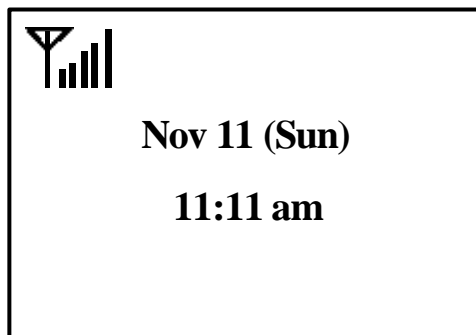
(Figure 3.2.2-2)

3.3 Disconnecting Calls

3.3.1 Using the Handset

Hang up the handset when the call is finished.

If the calling party hang up the phone before you do that, the warning-tone sound is supplied through the earpiece until you hang up the phone.

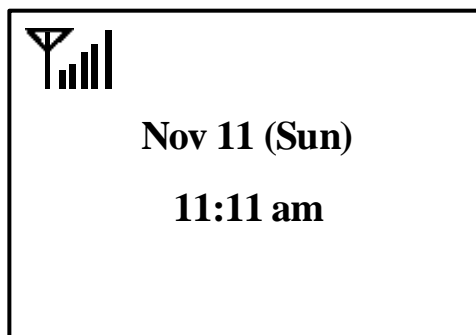


(Figure 3.3.1)

3.3.2 Using the Speaker Phone

Press the [SPK] button when the call is finished.

If the calling party hangs up the phone before you do that, the [SPK] lamp is turned off automatically and the speaker phone does n' t operate.

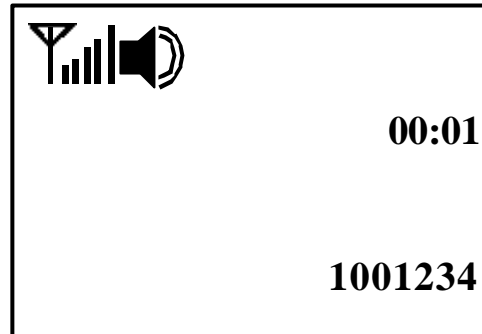


(Figure 3.3.2)

3.4 Transfer between Handset & Speaker Phone

3.4.1 Transfer to Speaker Phone in Off-Hook State

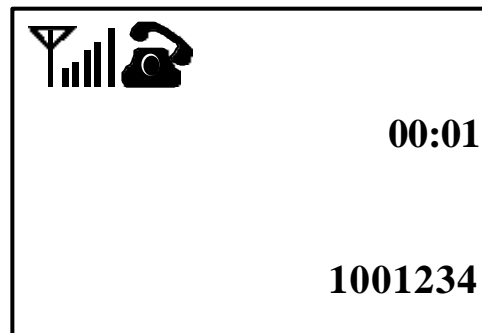
When you press the [SPK] button under the Off-Hook state, the [SPK] lamp is turned on and voice is out through the speaker.



(Figure 3.4.1)

3.4.2 Transfer to Handset in Speaker ON State

If you pick up the handset when the [SPK] lamp is on, the [SPK] lamp is turned off and voice is out through the earpiece.



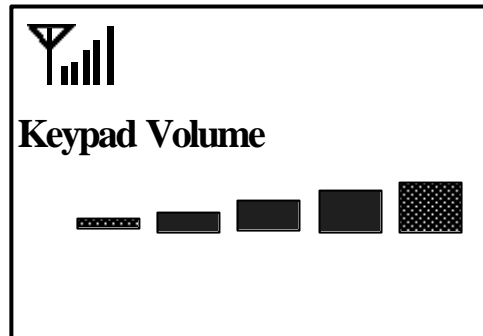
(Figure 3.4.2)

3.5 Volume Control

You can adjust the volume from low to high in 5 different levels.

3.5.1 Keypad Tone Control

The Keypad Tone can be changed by pressing [] or [] button when the handset is on the phone and the [SPK] button is off.



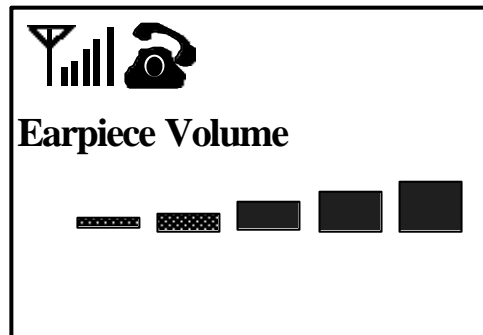
(Figure 3.5.1)

3.5.2 Ear Volume Control

The Ear Volume can be changed by pressing [] or [] button after you pick up the handset.

[Note]

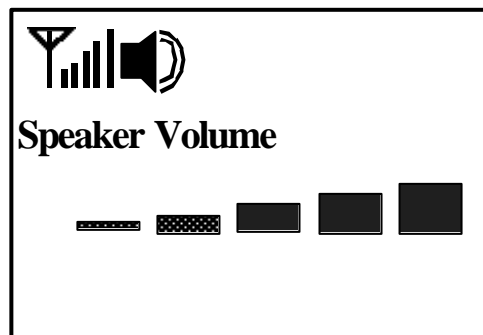
The Keypad Beep Tone is not changed even though you adjust the earpiece volume.



(Figure 3.5.2)

3.5.3 Speaker Volume Control

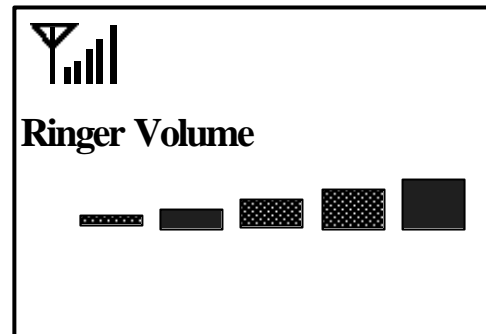
The Speaker Volume can be changed by pressing [] or [] button after you turn the [SPK] button on.



(Figure 3.5.3-1)

3.5.4 Ringer Volume Control

The Ringer Volume can be changed by pressing [] or [] button when the phone is ringing.



(Figure 3.5.4-1)

3.6 Hot Line

This function is useful when you want to make an automatic call to the designated number without dialing or pressing the [SND/RDL] button.

Hot Line operates in 2 modes.

Timed Hot Line : This will make a call to the designated number without dialing or pressing the [SND/RDL] button within the Sending Time(4 ~ 8 seconds) after you pick up the handset.

Immediate Hot Line : This function will automatically make a call to the designated number as soon as you pick up the handset.

The Hot Line number can be registered at address 99 in the Phone Book using the Phone Book function. (Reference 4.4 Using the Phone Book)
You can set up the Hot Line function (ON/OFF) and the Sending Time using the Menu Mode. (Reference 5.4.3 Hotline Call)

<Note>

This function only operates when the Hot Line function is on and the Hot Line number must be registered at address 99 in the Phone Book.

3.6.1 Timed Hot Line

Pick up the handset or press the [SPK] button.

The call is connected automatically when you don't dial or press the [SND/RDL] button during the sending time(4 ~ 8 seconds).
(Default value is 6 seconds).

The hot Line function is canceled if you dial or press the [SND/RDL] button within the sending time.



(Figure 3.6.1)

3.6.2 Immediate Hot Line

As soon as you pick up the handset or press the [SPK] button, the hot Line is connected.

3.7 Emergency Call Hold

This function is used in the emergency situation and once the call is connected, it won't be disconnected as long as the receiver does not hang up.

You can store up to three emergency call hold numbers at address 01 ~ 03 in the Phone Book. (Reference 4.4 Phone Book Function)

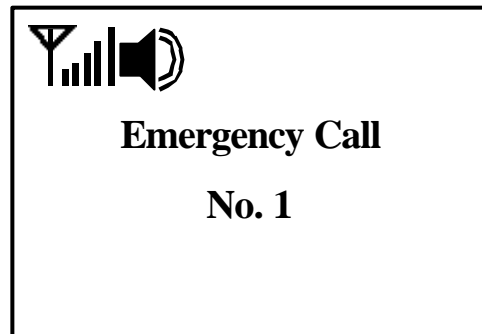
You can set the ON/OFF of the Emergency Call Hold function using the Menu Mode. (Reference 5.4.2 Emergency Call)

<Note>

This function can be operated only when the Emergency Call Hold function is on and the Emergency Call Hold number must be registered at address 01 ~ 03 in the Phone Book.

Press the emergency call hold number in address 01 ~ 03 for over 2 seconds or shortly, and then press the [SND/RDL] button.

The stored number is connected.



(Figure 3.7)

[Note]

- In this case, the [SPK] lamp is not turned on and you cannot hear the any voice through the speaker. The voice or sound of yours is only transmitted to the called party because only the Mic of the phone is on.
- When the handset is on the phone, confirm that the speaker is off and the Mic is on.
- when you pick up the handset, confirm that there is a dial tone.
- In the state of the Emergency Call Hold, the line will remain be connected with the receiving party as long as the called party doesn't hang up. If the called party hangs up the call, the call will be disconnected automatically.

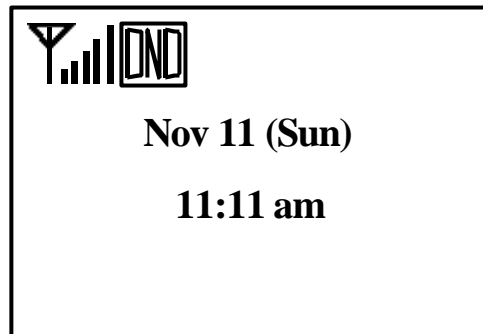
3.8 Do Not Disturb (DND)

When you don't want to answer the incoming call, use this function.

[Setting ON]

Press the [DND/MUTE] button when the handset is on the phone and the [SPK] lamp is off.

The phone doesn't answer to the incoming call and the DND icon is flashing simultaneously.

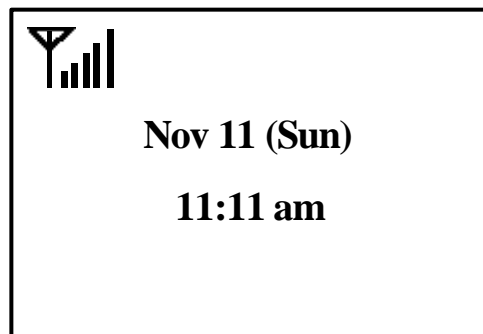


(Figure 3.8-1)

[Setting OFF]

Press the [DND/MUTE] button when the handset is on the phone and the [SPK] lamp is off.

The DND icon is disappeared and the phone is returned to the normal condition.



(Figure 3.8-2)

3.9 Voice Mute

3.9.1 Functions

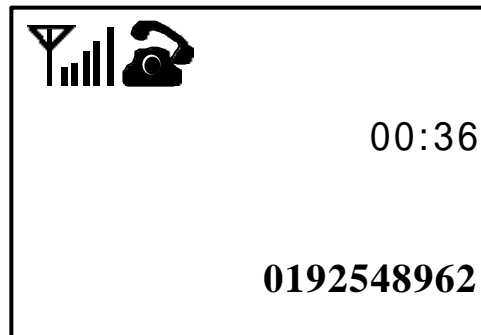
During the conversation, if you don't want to transmit your voice or sound to the called party, use this function.

You can use this function the following case.

- When you input the memo in the phone Book using the keypad.
- When you need to control the Menu to change the Voice Privacy function during the conversation.
- When you use the Memo Storing function during the conversation.

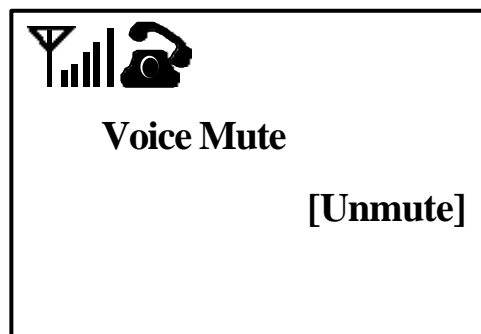
3.9.2 Using Function

Press the [DND/MUTE] button when you want to use the Voice Mute function during the conversation.



(Figure 3.9.2-1)

Select the [Mute] menu instead of the [Unmute] menu using [] or [] button, and then press the [STORE] button.



(Figure 3.9.2-2)

When the setting is done, the Voice Mute Icon is appeared on the screen and any voice or sound will not be transmitted to the other party.

If you want to release this function, select the <Unmute> in figure 3.9.2-2 and press the [STORE] button.



(Figure 3.9.2-3)

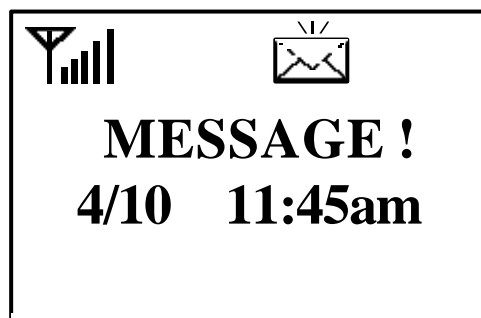
<Note>

This function is valid in each call. Even though you finish the call with [Mute] status, the phone is returned to [Unmute] status automatically.

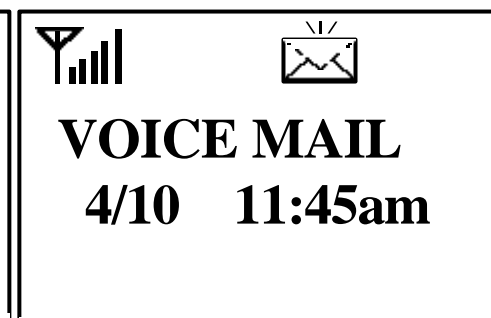
4. Additional Functions

4.1 Short Message Service (SMS)

You can transmit/receive the simple text or voice message using this phone.



(Figure 4.1-1)



(Figure 4.1-2)

When the phone received the text message, the sign like the figure 4.1-1 is appeared on the screen with the SMS/VMS notification tone.

To retrieve the text message,

Press the [CLR] button to return to the idle-state.

Press the [MSG/VAS] button, and then press the [2] button.

Retrieve the received message.

When the phone is received the voice message, the sign like the figure 4.1-2 is appeared on the screen with the beep-sound.

To retrieve the voice message.

Press the [CLR] button to return to the idle-state.

Press the [MSG/VAS] button, and then press the [1] button.

The phone number of the calling party and the number of stored message is scrolled and [VMC] menu is appeared on the bottom of the screen. At this time, press the [STORE] button, and then [Send] button one by one.

The Message Center is connected.

To send the text message.

Press the [MSG/VAS] button in the idle-state, and then press the [MENU] button.

Press the [1] button to input the receiver' s name, and then press the [STORE] button.

Press the [2] button again to input the message, and then press the [STORE] button.

Press the [3] button to input the calling party' s name, and then press the [STORE] button.

Press the [4] button, and then the text message is transmitted to the called party.

4.2 Alarm Reminder

This phone has Time Alarm function. You can set the alarm time under the 12-hour system.

- The phone has a Two-type mode (Onetime Mode and an Always Mode). The Alarm time can be set and edit under the 12-hour system.
- **Onetime Mode;**
The alarm rings at the specified time, and then the setting mode is released automatically. But the stored time will be remained.
- **Always Mode;**
The alarm rings at the specified time every day until the setting value is released. The method of set/edit of this function will be explained the next chapter.

When the alarm rings :

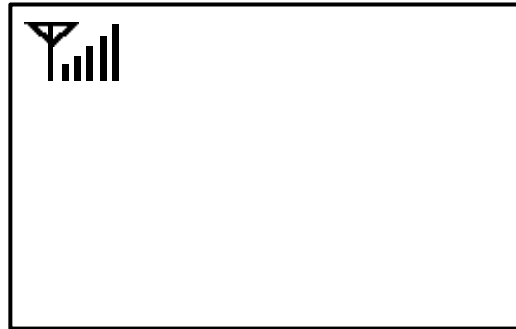
Pick up the handset or press [SPK/RDL] button when the alarm rings, and then the ring will be stopped. The phone is returned in the normal state.

If you don't take any action during the alarm rings, the ring will be stopped after 30 seconds automatically.

4.3 Voice Privacy (System Dependent)

4.3.1 On-hook State

Press [MENU]→3→4 in order and Select <Enhanced> mode or <Standard> mode by using [] or [] button, and then press the [STORE] button.

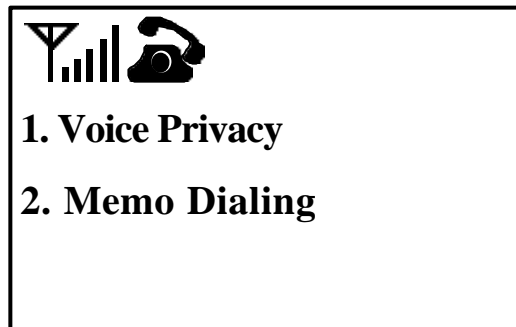


(4.3.1)

4.3.2 During a Conversation

Press [MENU] button during a conversation and press <1>.

Select <Enhanced> mode or <Standard> mode by using [] or [] button, and then press the [STORE] button.



(4.3.2)

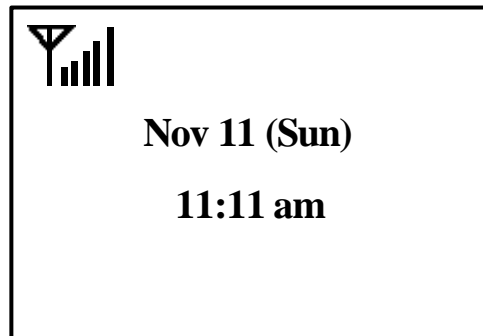
4.4 Authentication (System Dependant)

The phone has its own authentication key function. This will prohibit any illegal use of the phone. Your service provider will register your phone using this authentication function.

4.5 Using the Phone Book

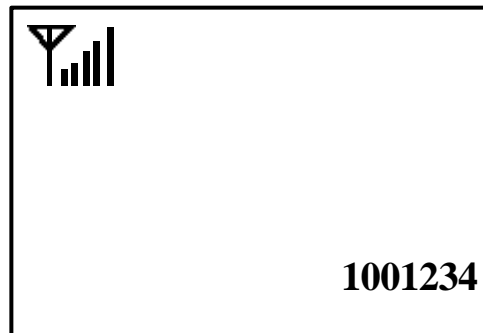
4.5.1 Store the Phone Number in idle-state

When the state of the phone is in idle-state,



(Figure 4.5.1-1)

Enter the phone number using the dial button, and then press the [STORE] button.

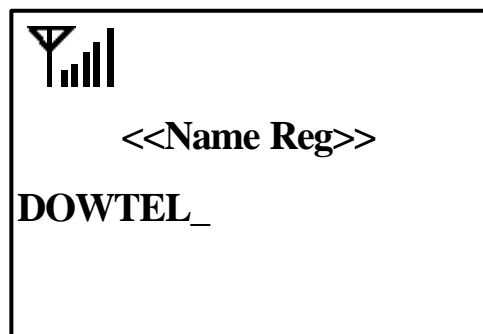


(Figure 4.5.1-2)

The figure 4.5.1-3 is displayed on the screen.

Type the name using the dial button, and then press the [STORE] button.

If you don't need name information, skip above, and then press the [STORE] button directly.

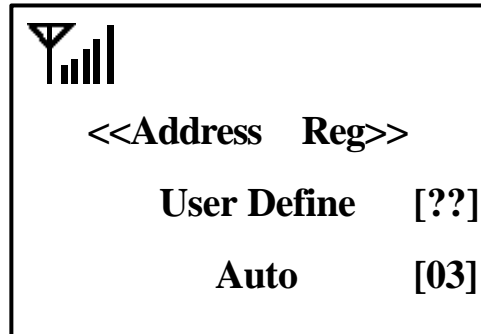


(Figure 4.5.1-3)

The figure 4.5.1-4 is displayed on the screen.

Press the memory location number you want to store the phone number, and then press the [STORE] button.

If you just press the [STORE] button, the number is stored at memory location number [03].



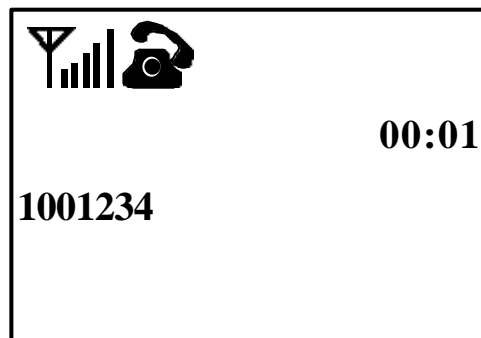
(Figure 4.5.1-4)

4.5.2 Storing the Caller/Receiver Number

When you make a call or answer to the incoming call, the number of caller and receiver is displayed on the LCD screen. You can store this number in the Phone Book when the call is finished.

[Incoming Call]

The number of caller is displayed on the screen if the caller ID service is supplied by the service provider.



(Figure 4.5.2-1)

When you finish the call, the number will be shown for 3 seconds on the screen as shown in figure 4.5.2-1.

At this time, press the [STORE] button.
(Reference 4.5.1)



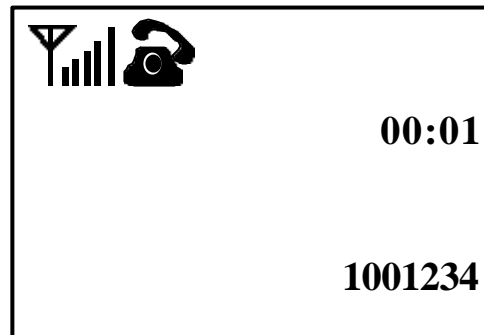
(Figure 4.5.2-2)

[Note]

The incoming call's number is displayed in the left side on the screen and the making call's number is displayed in the right side on the screen to separate between the incoming call and making call.

[Making Call]

The number of called party is displayed on the screen when you dial the number.



(Figure 4.5.2-3)

When you finished a call, the number is shown for 3 seconds on the screen.

At this time, press the [STORE] button.
(Reference 4.5.1)



(Figure 4.5.2-4)

4.5.3 Storing the Memo during a conversation

During a conversation, you can enter the number using the dial button and store the number in the Phone Book or make a call after the call is finished.

Press the [MENU] button during a conversation.



(Figure 4.5.3-1)

Press the [2] button, and then enter the phone number during a conversation using keypad.

Even though you press the dial button, the keypad tone is not transmitted and the number is just displayed on the screen.

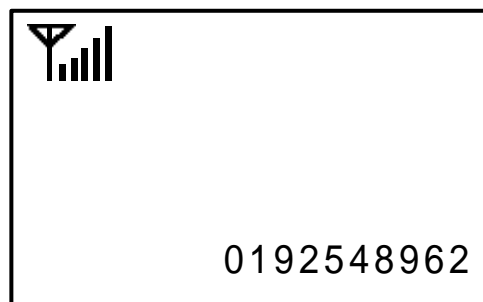


(Figure 4.5.3-2)

Even after the call is finished, the number is remained on the screen until you pick up the handset or press the other button.

If you want to store the number to the Phone Book, press the [STORE] button. (Reference 4.5.1)

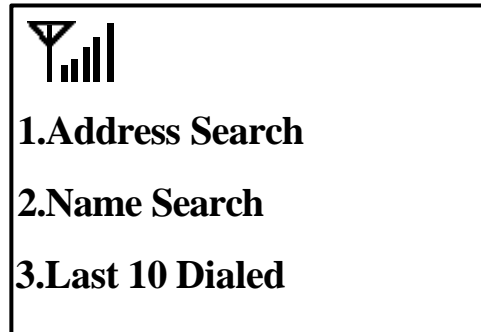
if you want to call that number, just press the [SND/RDL] button.



(Figure 4.5.3-3)

4.5.4 Search the Stored Number

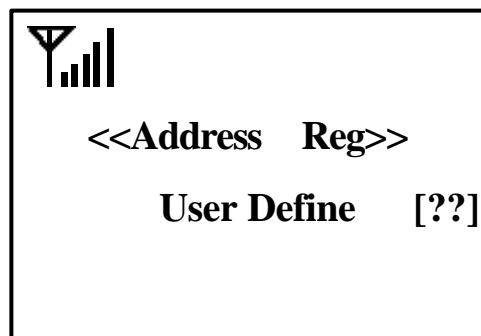
When the phone is in idle-state, the screen(Figure 4.5.4-1) is displayed if you press the [RCL] button.



(Figure 4.5.4-1)

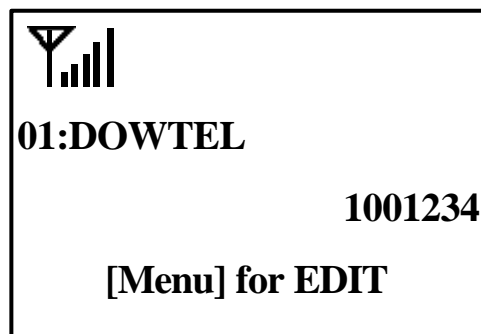
When you press the [1] button, the screen(Figure 4.5.4-2) is displayed.

Enter the memory location number using the dial button.



(Figure 4.5.4-2)

The name and number is displayed on the screen as shown in figure 4.5.4-3.

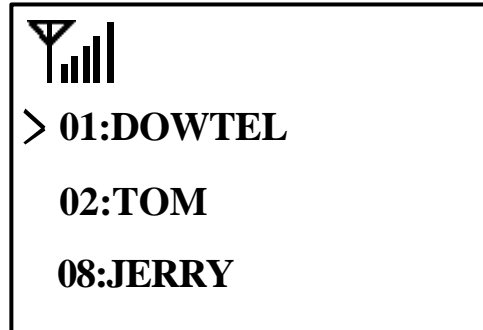


(Figure 4.5.4-3)

If you press the [UP]/[Down] button in the figure 4.5.4-3, you can search other number.

Select the address you want, and then press the [STORE] button. The phone displays the number of the stored address.

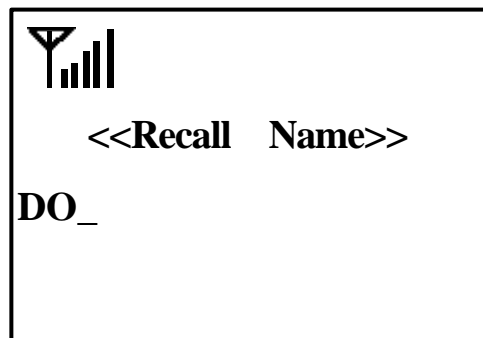
When you pick up the phone or press the [SND/RDL] button, the phone make a call the selected number.



(Figure 4.5.4-4)

If you press the [2] button in the figure 4.5.4-1, the screen (figure 4.5.4-5) is displayed on the screen.

Enter the name you want to search using the dial button, and then press the [STORE] button.

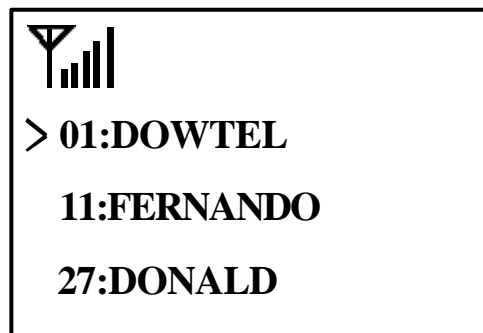


(Figure 4.5.4-5)

All stored name is displayed in the screen as shown in figure 4.5.4-6.

Select the address using the [UP]/[DOWN] button, and then press the [STORE] button. The phone displays the number of the stored address.

Press the [SND/RDL] button or pick up the phone, and then the phone will make a call.

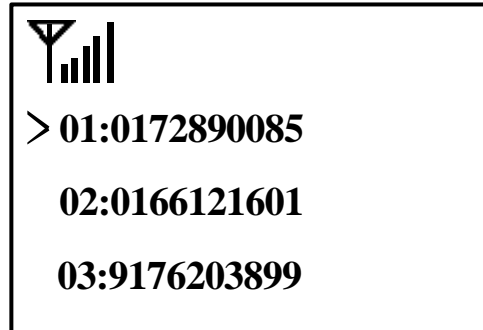


(Figure 4.5.4-6)

If you press the [3] button in the figure 4.5.4-1, the screen (figure 4.5.4-7) is displayed.

Select the number using the [UP]/[DOWN] button, and then press the [STORE] button. The phone displays the number of the stored number.

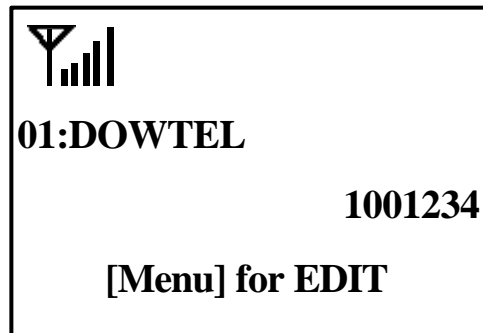
Press the [SND/RDL] button or pick up the phone, and then the phone will make a call.



(Figure 4.5.4-7)

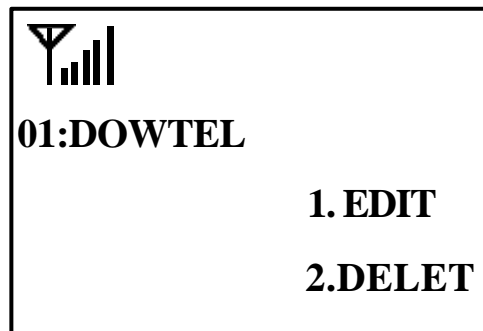
4.5.5 Edit the Stored Number

When you search the number using the stored address or name, the screen (figure 4.5.5-1) is displayed.



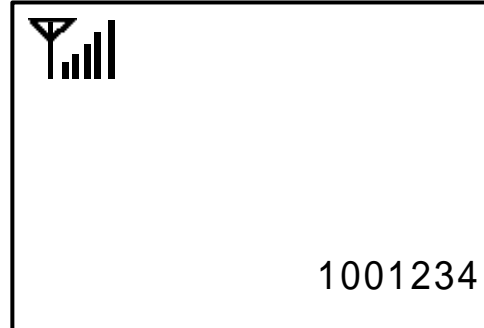
(Figure 4.5.5-1)

Press the [Menu] button in the figure 4.5.5-1, and then the screen is changed to the figure 4.5.5-2.



(Figure 4.5.5-2)

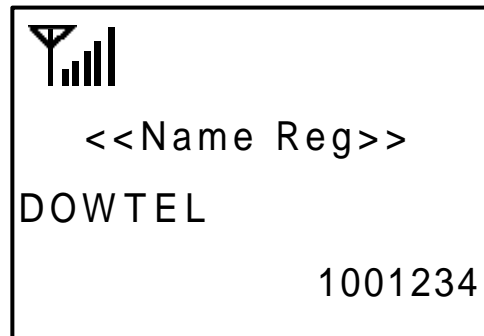
Select the [1] button in the figure 4.5.5-1, and then you can change the number using the [CLR] and dial button.



(Figure 4.5.5-3)

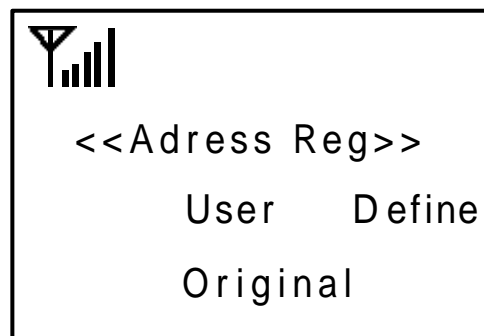
After changing the number in the figure 4.5.5-3, press the [STORE] button.

The screen is changed automatically as shown in the figure 4.5.5-3, and then you can change the name using the [CLR] and dial button.



(Figure 4.5.5-3)

If you want to store the original address or enter the other address among the address 01 ~99, press the [STORE] button, and then it's stored.



(Figure 4.5.5-4)

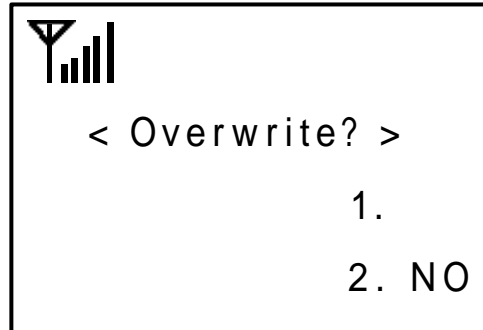
When the address that you enter in the figure 4.5.5-4 is already existed on the phone book, the phone will ask you to replace the address or not.

If you select the “Yes”, the address will be replaced.

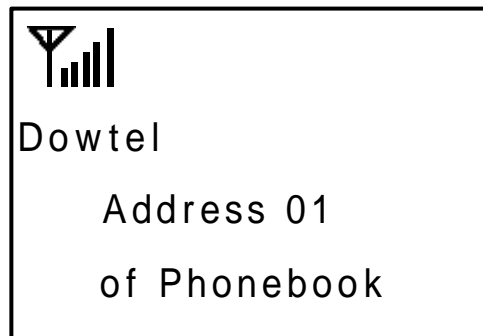
If you select the “No”, the original number will remain at that address and you should store new address as shown on the figure 4.5.5-4.

When all procedure is finished, the stored address and name will be displayed on the screen.

And then the phone is returned in the idle-state automatically a few seconds later.



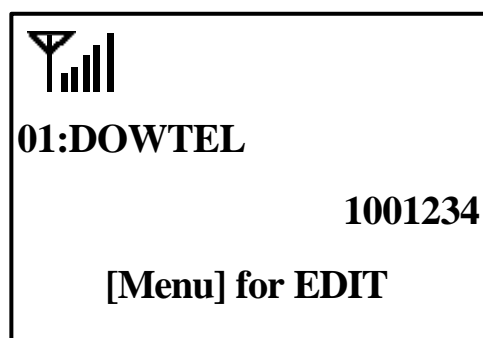
(Figure 4.5.5-5)



(Figure 4.5.5-6)

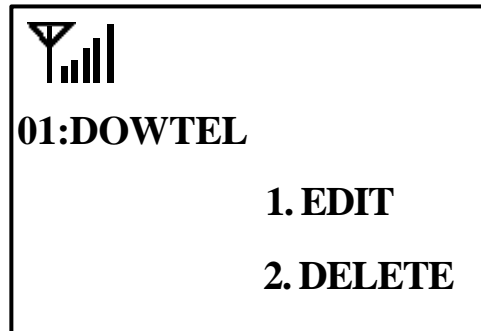
4.5.6 Erase the Stored Number

Search the number using the address or name, the screen (figure 4.5.6-1) is displayed. (Reference 4.5.4)



(Figure 4.5.6-1)

Press the [Menu] button in the figure 4.5.6-1, the screen is changed in the edit state.

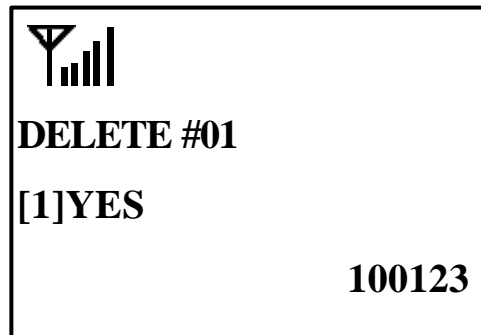


(Figure 4.5.6-2)

If you select the [2] button in the figure 4.5.6-2, the screen will be changed like the figure 4.5.6-3.

If you select the "Yes", the address will be erased.

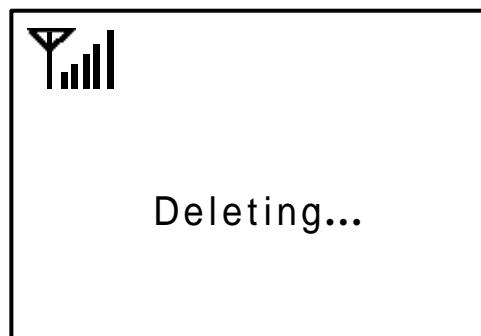
If you select the "No", the address will not be erased and the screen will be changed to the figure 4.5.6-1.



(Figure 4.5.6-3)

In the figure 4.5.6-3, the erasing procedure is processing if you select the "Yes"

A few seconds later, the phone is returned to idle-state automatically.



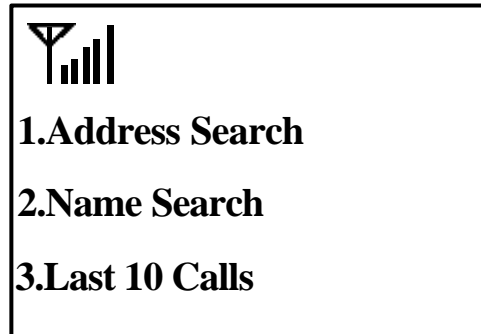
(Figure 4.5.6-4)

4.6 List of the Dialed Number

4.6.1 Last 10 Called Number

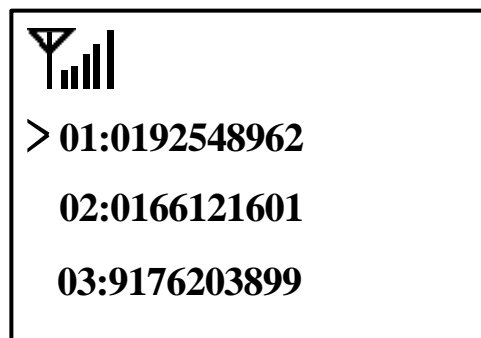
Press the [RCL] button when the phone is in the idle-state.

The screen (figure 4.6.1-1) is displayed.



(Figure 4.6.1-1)

In the figure 4.6.1-1, you can see the dialed list up to 10 numbers when you press the [3] button.



(Figure 4.6.1. -2)

4.7 DATA Service

4.7.1 Definition

DTP-800/1900 provides the Data Service. You can transmit and receive the data or fax data through the wireless path as connecting the Notebook (or Desktop PC) with DTP-800/1900.

The following service is available.

Async Data Service

- File transmit and receive
- PC communication

PC Fax Service

- Wireless Fax transmit/receive using the Winfax or Hotfax

Packet Data Service

- FTP, Internet, Intranet, LAN, E-Mail etc.

4.7.2 Using the Data Service

Reference the Appendix A. Data Service.

<Note>

You have to set the DTP-800/1900 with the receive mode when you receive the data using the Async Data Service and PC Fax Service. (Reference 5.5.2 PC Fax & Modem and Table DS-1)

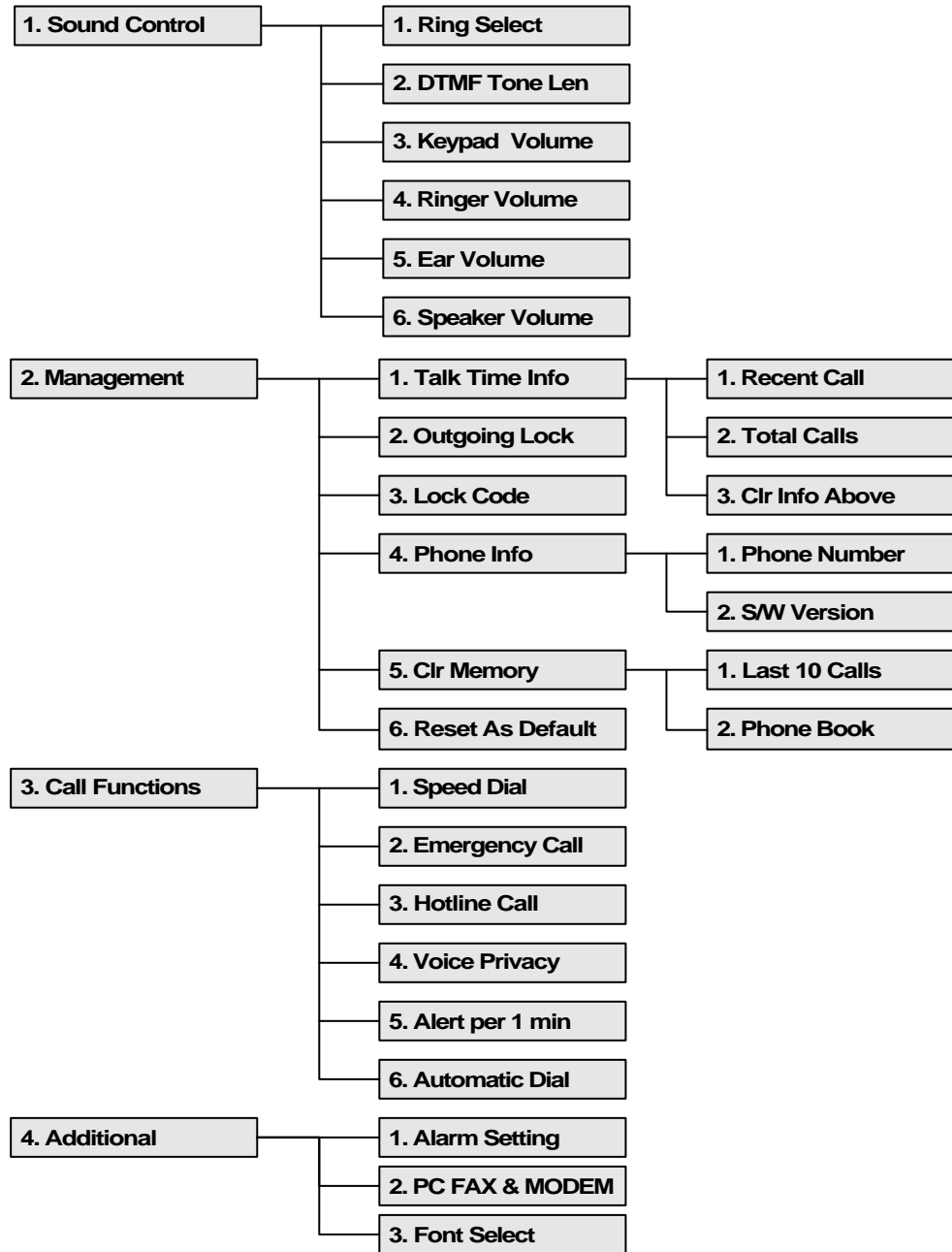
[Note]

This phone provides both Async Data Service (14.4kbps) and Packet Data Service.

If you want to use the Packet Data Service, you need the Internet account (free or charged) supplied by the service provider.

5. Menu

5.1 Menu Mode



5.2 Sound Control

You can select the tone types, ring types and sound volume of this phone using the Menu Mode.

5.2.1 Ring Select

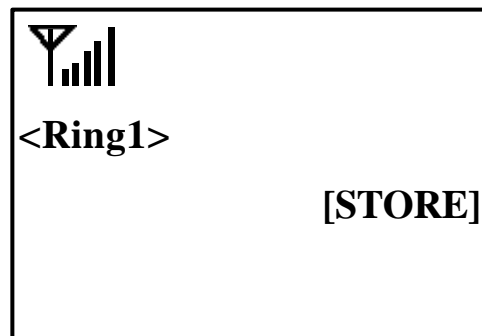
You can select the ring types when the phone rings. There are 6 Bell-Type and 4 Melody-Type in this phone.

Press the button following sequence;

[MENU] ® 1 ® 1

The screen (figure 5.2.1) is displayed with the current setting ring sound.

At this time, select the ring type you want using the [] or [] button, and then press the [STORE] button to store the ring type.



(Figure 5.2.1)

5.2.2 DTMF Tone Length

You can select the two-type mode of the DTMF Tone Length transmitted to the service provider via air when you use the additional service during the conversation or try to connect with ARS system.

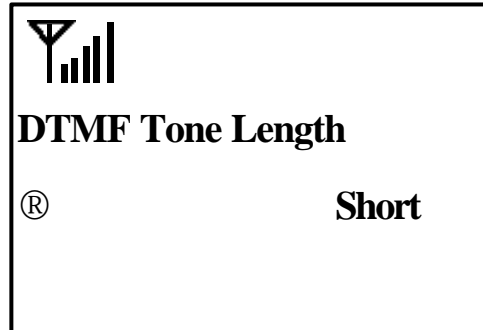
You can select the <Short Mode> transmit the DTMF Tone during 0.2 second when you press the dial button or the <Long Mode> which transmit the DTMF Tone while you are pressing the dial button.

Press the button as following sequence;

[MENU] ® 1 ® 2

The screen(figure 5.2.2) is displayed.

At this time, select the DTMF Mode you want using the [] or [] button and then press the [STORE] button to store.



(Figure 5.2.2)

5.2.3 Keypad Tone (Volume)

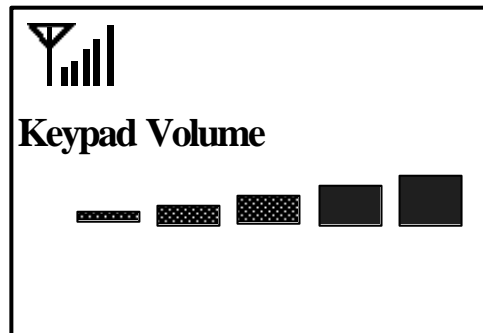
This menu is used to select the keypad tone. This function has <Silent> mode and 5-volume level.

Press the button as following sequence;

[MENU] ® 1 ® 3

The current tone level is displayed on the screen(figure 5.2.3).

At this time, select the tone level you want using the [] or [] button and then press the [STORE] button to store.



(Figure 5.2.3)

[Speed Menu]

You can select the tone level simply using the [] or [] button when the handset is on the phone and [SPK] lamp is off.

5.2.4 Ringer Volume

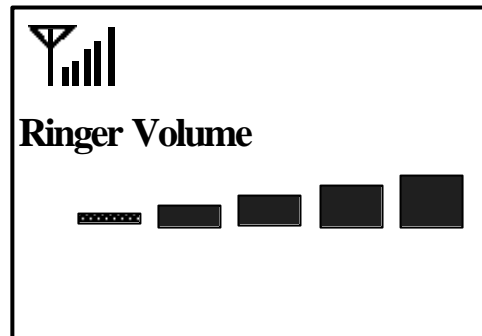
This menu is to select the ringer volume. This function has from <Silent> mode to 5-volume level.

Press the button as following sequence;

[MENU] ® 1 ® 4

The current volume level is displayed on the screen (figure 5.2.4).

At this time, select the volume level you want using the [] or [] button and then press the [STORE] button to store the ringer volume.



(Figure 5.2.4)

[Speed Menu]

You can select the volume level simply using the [] or [] button when the phone is ringing.

5.2.5 Ear Volume

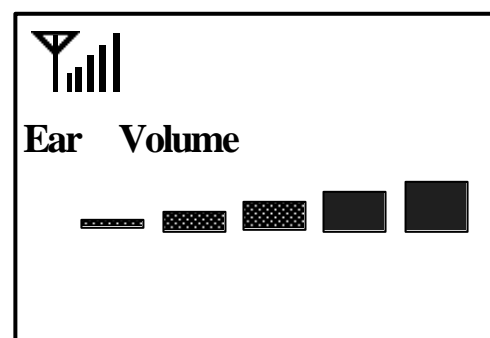
This menu is to select the earpiece volume. This function has 5-volume level.

Press the button as following sequence;

[MENU] ® 1 ® 5

The current volume level is displayed on the screen (figure 5.2.5).

At this time, select the volume level you want using the [] or [] button and then press the [STORE] button to store.



(Figure 5.2.5)

[Speed Menu]

You can select the volume level simply using the [] or [] button when you pick up the handset.

5.2.6 Speaker Volume

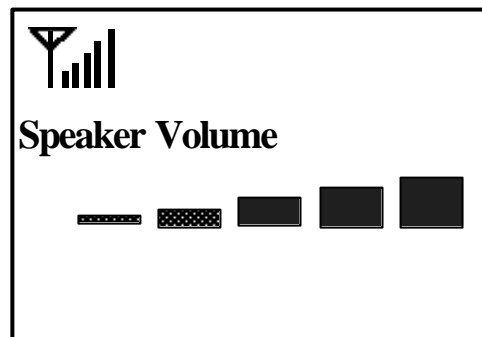
This menu is used to select the speaker volume. This function has 5-volume level.

Press the button as following sequence;

[MENU] ® 1 ® 6

The current volume level is displayed on the screen (figure 5.2.6).

At this time, select the volume level you want using the [] or [] button and then press the [STORE] button to store.



(Figure 5.2.6)

[Speed Menu]

You can select the volume level simply using the [] or [] button when the [SPK] lamp is on.

5.3 Management

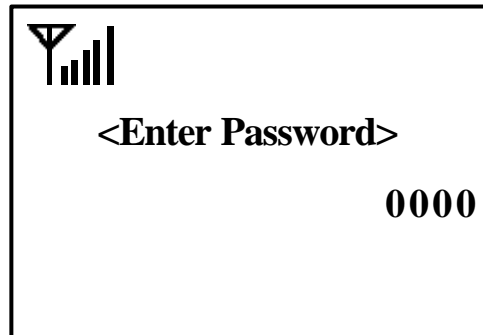
You can use this function to limit the phone use by others. And also, memory management, editing Lock Code, Reset as default and checking phone version are available.

Press the button as following sequence

[MENU] ® 2

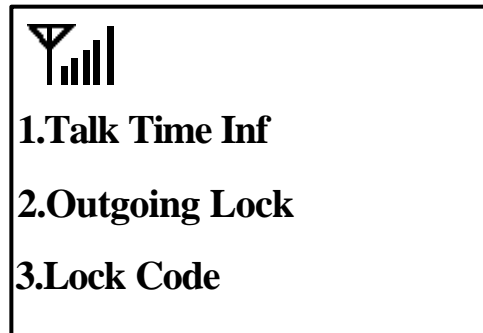
The phone ask you the user's password as in the figure 5.3-1.

The default password is "0000".

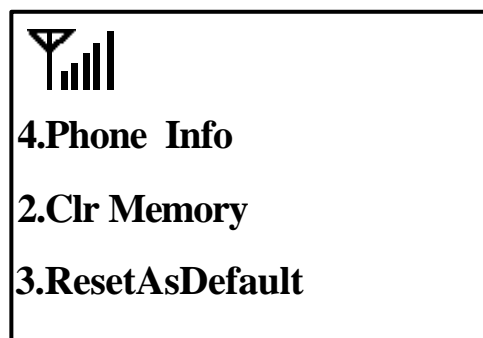


(Figure 5.3-1)

When you enter the user's password, the Management Menu is displayed on the screen



(Figure 5.3-2)



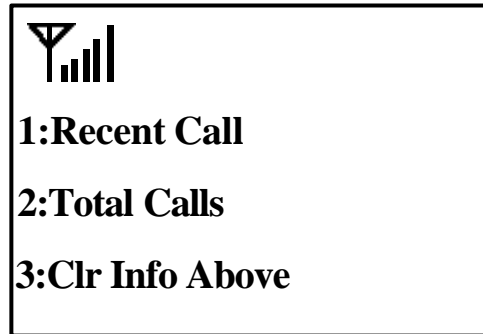
(Figure 5.3-3)

5.3.1 Talk Time Information

The phone records the call time when you make a call only. You can search or erase the records using this menu.

Press the button as following sequence.

[MENU] ® 2 ® Password ® 1



(Figure 5.3.1)

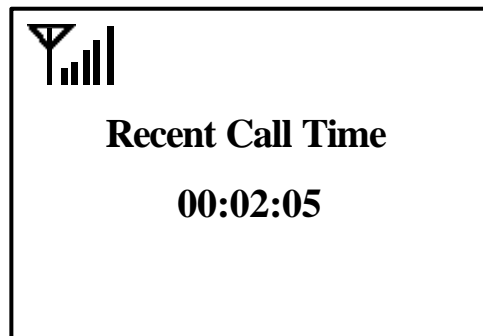
[Note]

The item's number 1 and 2 in this menu is initialized automatically when you turn the power of this phone off and then on again.

5.3.1.1 Recent Call

The last number you dialed is displayed on the screen when you press the [1] button as the figure 5.3.1.

The call time is displayed as **[Hour:Minute:Second]**. (Figure 5.3.1-1)

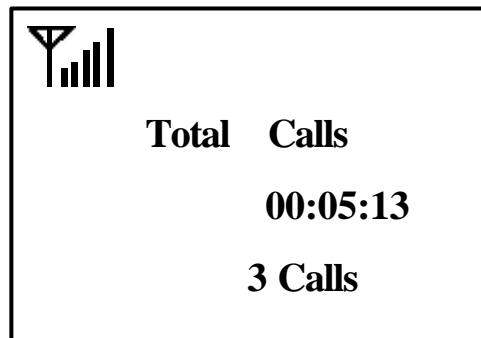


(Figure 5.3.1-1)

5.3.1.2 Total Calls

The total call time is displayed on the screen when you press the [2] button as the figure 5.3.1.

The total call time is displayed as [Hour:Minute:Second] & the number of Calls.



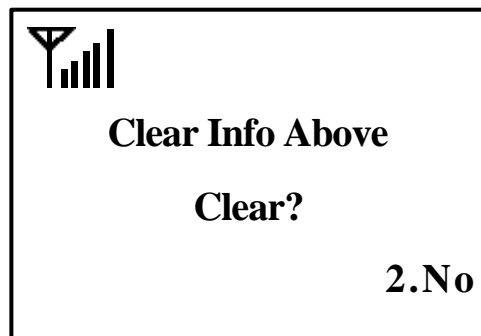
(Figure 5.3.1-2)

5.3.1.3 Clr(clear) Info(rmation) above

The above items are initialized automatically when you turn the power off and on again. And you can initialize these items using the menu as follows.

The screen (figure 5.3.1-3) is displayed when you press the [3] button as the figure 5.3.1.

Press the [1] button, and then the records will be erased.



(figure 5.3.1-3)

5.3.2 Outgoing (Call) Lock

This menu is to limit or permit to make a call.

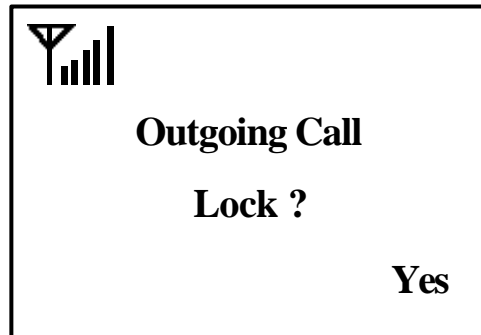
Press the button as following sequence.

[MENU] ® 2 ® Password ® 2

The <Yes>/<No> menu is toggled in the bottom of the screen.

When the <Yes> menu is displayed, press the [STORE] button.

No outgoing calls can be made.



(Figure 5.3.2)

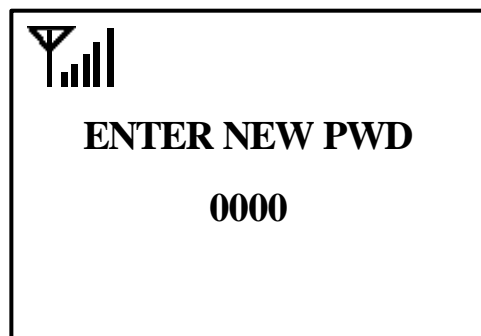
5.3.3 Lock Code (Password Change)

This menu is used to change the user's password.

Press the button as following sequence.

[MENU] ® 2 ® Password ® 3

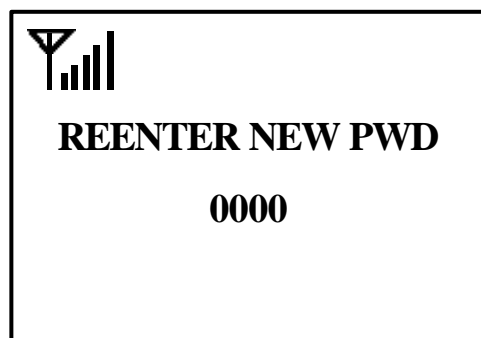
Enter the new password, and then press the [STORE] button.



(Figure 5.3.3-1)

The phone requires you to reenter the new password to confirm whether the new password is correct or not.

Enter the new password again, and then press the [STORE] button.



(Figure 5.3.3-2)

If the reentered new password is not correct, the figure 5.3.3-3 is displayed on the screen and the phone is returned to the figure 5.3.3-1.



(Figure 5.3.3-3)

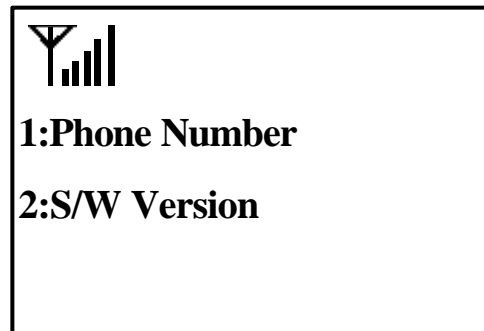
5.3.4 Phone Information

This menu is to confirm the number of the phone and the software version.

Press the button as following sequence.

[MENU] ® 2 ® Password ® 4

The figure 5.3.4 is displayed on the screen.



(Figure 5.3.4)

5.3.4.1 Phone Number

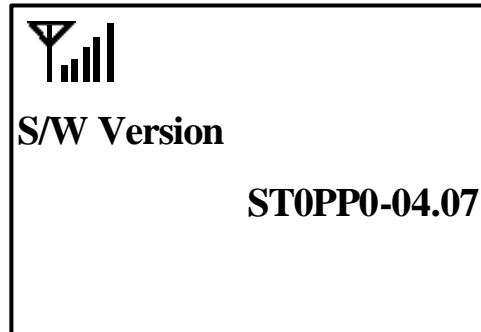
If you press the [1] button in the figure 5.3.4, the number of the phone is displayed on the screen.



(Figure 5.3.4.1)

5.3.4.2 S/W Version

If you press the [2] button in the figure 5.3.4, the installed S/W Version in the phone is displayed on the screen.



(Figure 5.3.4.2)

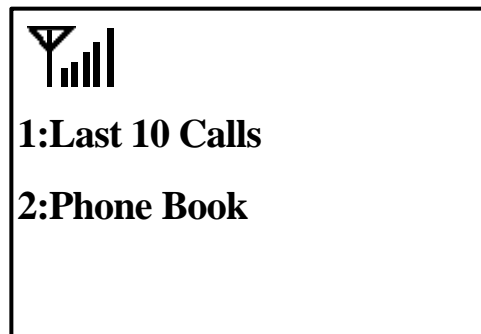
5.3.5 Clear Memory

This menu is to erase the list of last-dialed number and the stored numbers in the Phone Book.

Press the button as following sequence.

[MENU] ® 2 ® Password ® 5

The figure 5.3.5 is displayed on the screen.

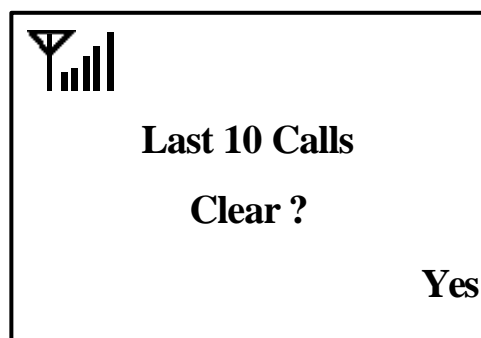


(Figure 5.3.5)

5.3.5.1 (Clear) Last 10 Calls

If you press the [1] button in the figure 5.3.5, the figure 5.3.5-1 is displayed on the screen.

If you want to erase the records of last 10 dialed, press the [STORE] button when "Yes" menu is appeared on the screen after press the [] or [] button.

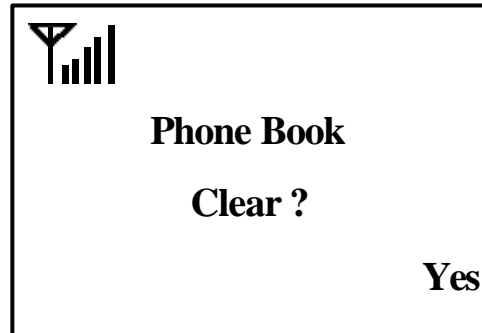


(Figure 5.3.5-1)

5.3.5.2 (Clear) Phone Book

If you press the [2] button in the figure 5.3.5, the figure 5.3.5-2 is displayed on the screen.

If you want to erase the records of the Phone Book, press the [STORE] button when "Yes" menu is appeared on the screen after press the [] or [] button.



(Figure 5.3.5-2)

5.3.6 Reset as Default

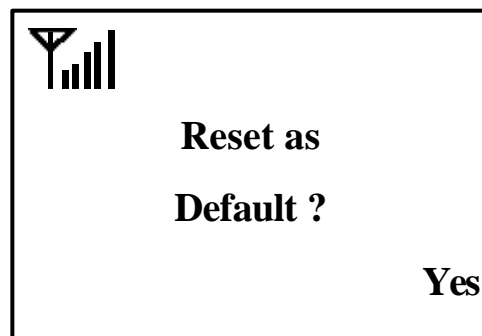
This menu is used when you want to recover the changed functions to the initial status.

Press the button as following sequence.

[MENU] ® 2 ® Password ® 6

The figure 5.3.6 is displayed.

If you press the [STORE] button when the "Yes" menu is appeared on the screen after you press the [] or [] button, the phone will start initializing process.



(Figure 5.3.6)

At this time, the power of the phone is turned off and on automatically.

If you press the [STORE] button when the "No" menu is appeared, the phone is returned to the idle-state.

The Check Points when using the Reset As Default Function

When you re-initialize the phone using this function, only the following items will be re-initialized to the default value.

No.	Item	Default Value	Remark
1	Keypad Volume	3 Steps	5.2.3
2	Ringer Volume	3 Steps	5.2.4
3	Ear Volume	3 Steps	5.2.5
4	Speaker Volume	3 Steps	5.2.6
5	Outgoing Lock	No	5.3.2
6	Speed Dial	Enabled	5.4.1
7	Emergency Call	Disabled	5.4.2
8	Hotline Call	Disabled	5.4.3
9	Timed Hotline Call	6 seconds	5.4.3
10	Voice Privacy	Standard	5.4.4
11	Alert per 1min	Disabled	5.4.5
12	Automatic Dial	Disabled	5.4.6
13	Delay Time for Automatic Dial	6 seconds	5.4.6
14	Dial Time	After 6 seconds	5.4.6
15	Alarm Setting	Off	5.5.1
16	Alarm Time	Hour 00:00	5.5.1

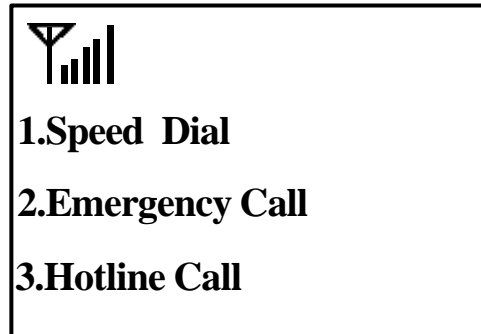
5.4 Call Functions

This menu is to set or release some useful function related with the calls.

Press the button as following sequence.

[MENU] ® 3

The figure 5.4 is displayed on the screen.



(Figure 5.4)

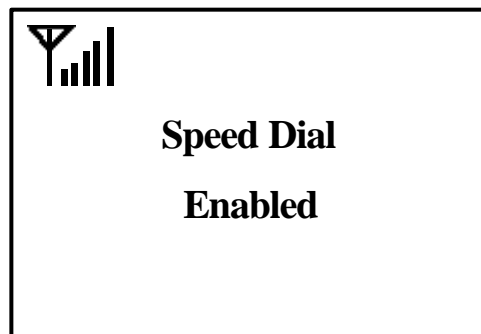
5.4.1 Speed Dial

Press the button as following sequence.

[MENU] ® 3 ® 1

The figure 5.4.1 is displayed on the screen.

If you press the [STORE] button when the <Enabled> menu is appeared after you press the [] or [] button, this function is set on.



(Figure 5.4.1)

If you press the [STORE] button when the <Disable> menu is appeared, this function is released.

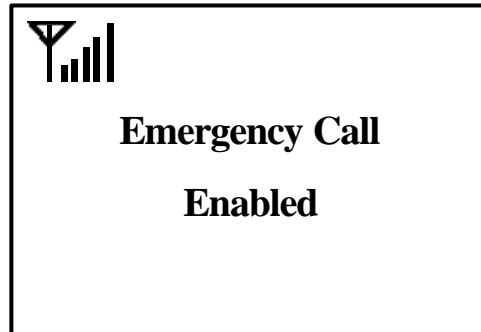
5.4.2 Emergency Call

Press the button as following sequence.

[MENU] ® 3 ® 2

The figure 5.4.2 is displayed on the screen.

If you press the [STORE] button when the <Enabled> menu is appeared after you press the [] or [] button, this function is set on.



(Figure 5.4.2)

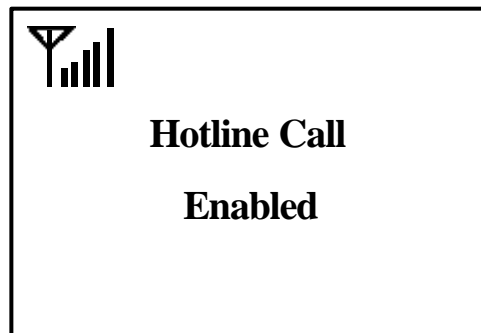
If you press the [STORE] button when the <Disable> menu is appeared, this function is released.

5.4.3 Hot-Line Call

Press the button as following sequence.

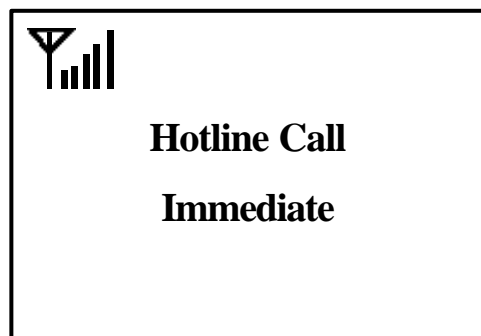
[MENU] ® 3 ® 3

The figure 5.4.3-1 is displayed on the screen.



(Figure 5.4.3-1)

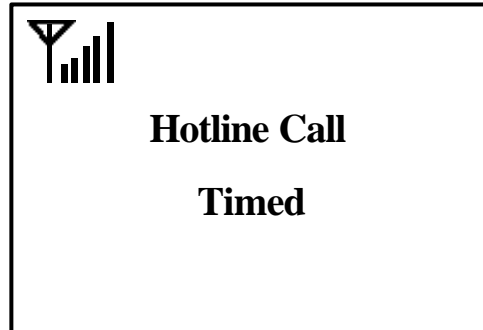
If you press the [] or [] button after press the [STORE] button, the figure 5.4.3-2 or 5.4.3-3 is displayed on the screen.



(Figure 5.4.3-2)

If you press the [STORE] button when the figure 5.4.3-3 is displayed on the screen, the phone is in "Timed Hotline" state.

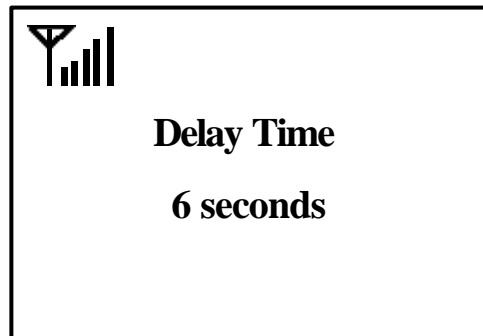
And then the screen will be changed to the figure 5.4.3-4.



(Figure 5.4.3-3)

When you press the [STORE] button after you set the time using the [] or [] button, the setting is done.

You can set the time between 4 ~ 8 seconds.



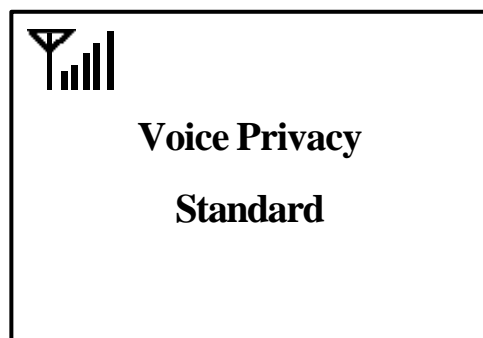
(Figure 5.4.3-4)

5.4.4 Voice privacy

This menu is used to set or release the privacy function to protect from the illegal wiretapping.

In figure 5.4, if you press the [4] button, the figure 5.4.4-1 is displayed on the screen.

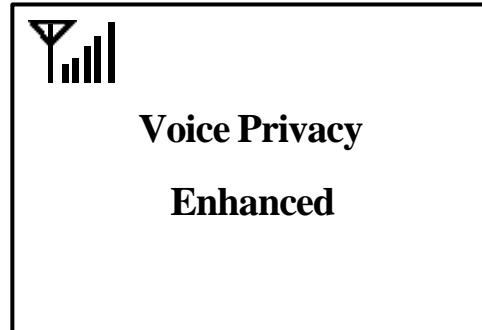
At this time, the phone is in the normal privacy mode after you press the [STORE] button.



(Figure 5.4.4-1)

If you press []/[] button, the figure 5.4.4-2 is displayed on the screen.

And then, if you press the [STORE] button, the phone is in the enhanced privacy mode.



(Figure 5.4.4-2)

5.4.5 Alert per 1 min

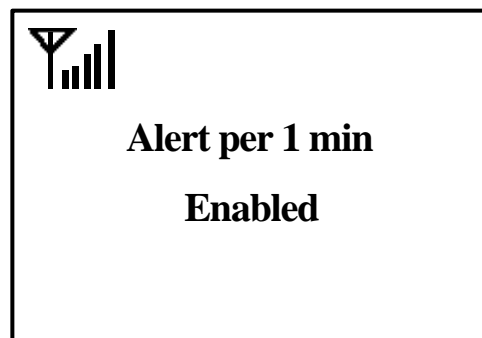
This menu is used to set or release the alarm sound every 1-minute during the call.

Press the button as following sequence.

[MENU] ® 3 ® 5

The figure 5.4.5 is displayed on the screen.

Select the “Yes” or “No” menu using the [] or [] button, and then press the [STORE] button.



(Figure 5.4.5)

5.4.6 Automatic Dialing

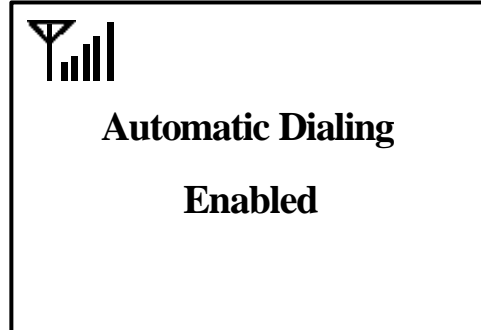
This menu is used to make an automatic call even if you don't press the [SND/RDL] button after you dialed the number within a set time..

Press the button as following sequence.

[MENU] ® 3 ® 6

The figure 5.4.6-1 is displayed on the screen.

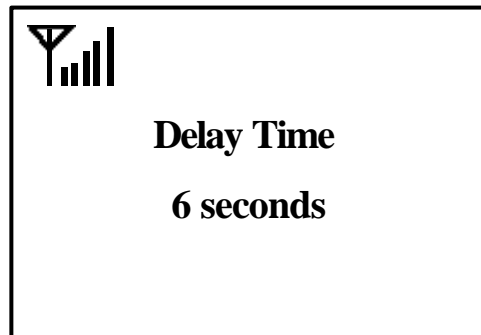
Select the “Yes” or “No” menu using the [] or [] button, and then press the [STORE] button.



(Figure 5.4.6-1)

When you select the “Yes” menu, the figure 5.4.6-2 is displayed on the screen.

Select the time using the [] or [] button, and then press the [STORE] button.



(Figure 5.4.6-2)

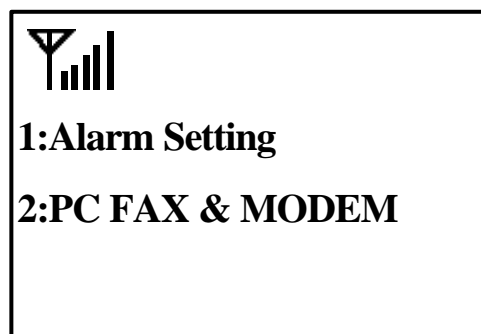
5.5 Additional Functions

This menu is used to set the alarm function and the Data Receive Mode when you use the data service using the PC or Fax.

Press the button as following sequence.

[MENU] ® 4

The figure 5.5 is displayed on the screen.



(Figure 5.5)

5.5.1 Alarm Setting

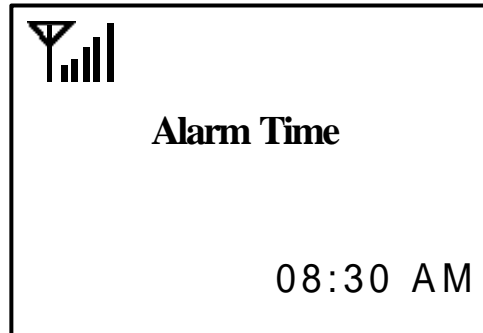
This menu is used to set on/off the alarm function and the alarm time.

Press the button as following sequence.

[MENU] ® 4 ® 1

The figure 5.5.1-1 is displayed on the screen.

When you set the alarm time, the screen will prompt you to enter the time.



(Figure 5.5.1-1)

Use the dial button when you enter the time.

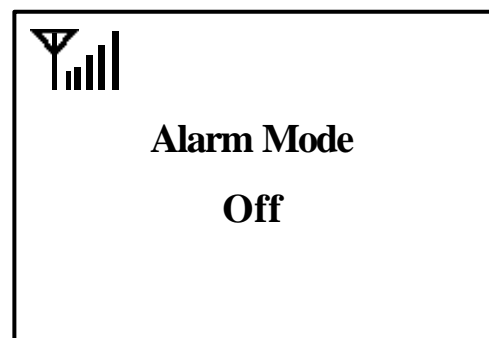
Use the [UP/DOWN] button when you select the AM/PM.

And then, press the [STORE] button.

If you enter the time incorrectly, press the [CLR] button. The entered time will be erased as inverse sequence.

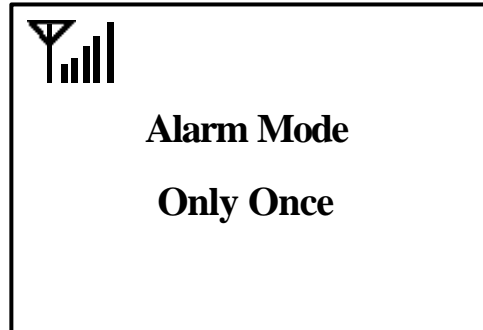
The figure 5.5.1-2 is displayed on the screen.

If you press the [STORE] button in this stage, the entered time is stored. But the alarm function is not on.



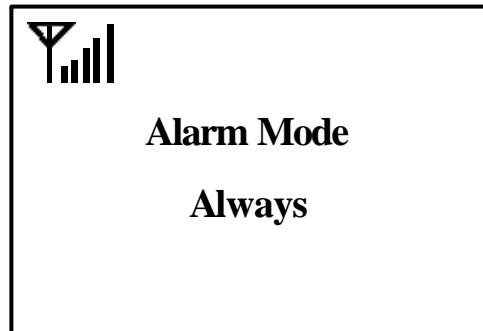
(Figure 5.5.1-2)

If you want to use the alarm for only one time, select the figure 5.5.1-3 using the [] or [] button in the figure 5.5.1 -2 and then press the [STORE] button.



(Figure 5.5.1-3)

If you want to use the alarm always, select the figure 5.5.1-4 using the [] or [] button in the figure 5.5.1 -2 and then press the [STORE] button.



(Figure 5.5.1-4)

5.5.2 PC FAX & MODEM

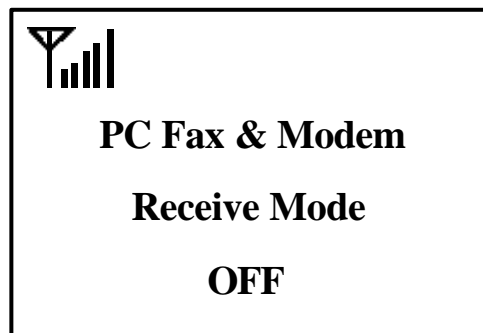
This menu is to set the phone to data receive mode when you use the Data Service to receive the fax through PC or communicate through the modem in the PC.

Press the button as following sequence.

[MENU] ® 4 ® 2

The figure 5.5.2-1 is displayed on the screen.

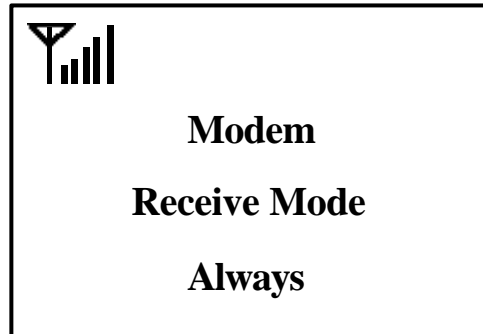
At this time, the phone is the voice-call mode, when you press the [STORE] button.



(Figure 5.5.2-1)

When you select the figure 5.5.2-2 using the [] or [] button in the figure 5.5.2-1, press the [STORE] button.

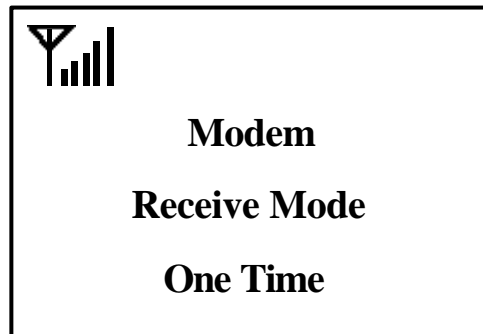
The phone stays at the Modem Receive Mode.



(Figure 5.5.2-2)

When you select the figure 5.5.2-3 using the [] or [] button in the figure 5.5.2-1, press the [STORE] button.

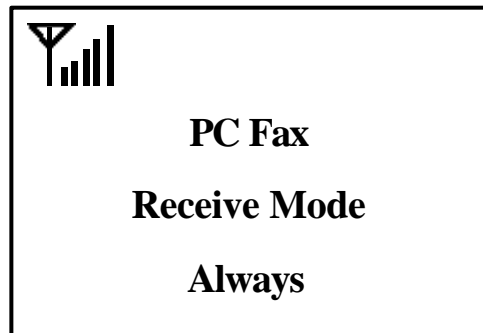
The phone works the Modem Receive Mode only one time and returns to the voice-call mode.



(Figure 5.5.2-3)

When you select the figure 5.5.2-4 using the [] or [] button in the figure 5.5.2-1, press the [STORE] button.

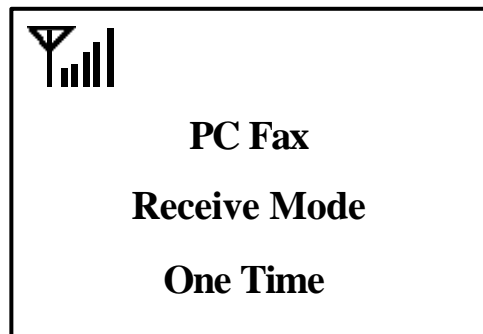
The phone always stays at the PC Fax Receive Mode.



(Figure 5.5.2-4)

When you select the figure 5.5.2-5 using the [] or [] button in the figure 5.5.2-1, press the [STORE] button.

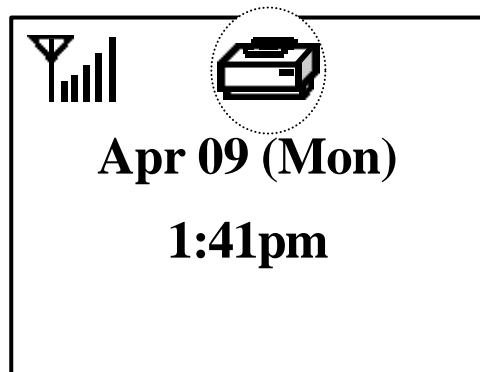
The phone works the PC Fax Receive Mode only one time and returns to the voice-call mode.



(Figure 5.5.2-5)

When the phone is set in the PC Fax Receive Mode, the PC Fax Receive Mode Icon is displayed on the screen.

When the phone is set in the Modem receive Mode, the Modem receiving mode Icon is also displayed on the screen.



5.5.3 Font Select

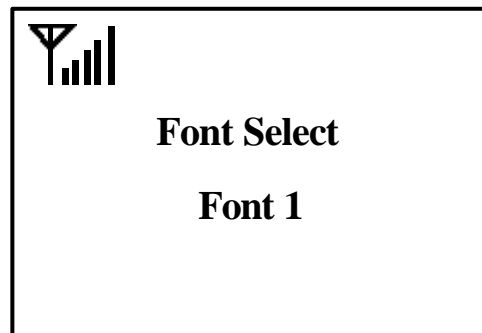
This model supplies 2 type text fonts.
This menu is used to select the text font for LCD display.
Default text font is .

Press the button as following sequence.

[MENU] ® 4 ® 3

Using the [] or [] button,
Select font. And then press the
[STORE] button.

At this time, the phone will return
to the previous menu mode,
displaying with changed text font.



(Figure 5.5.3-1)