



# SN-258 PLUS

Instruction Manual

EN

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

This product is prohibited to be used without permission from the government authorities in the relevant jurisdictions

*Manufactured by*  
**ISO-9001**  
*Certified Factories*



Thank you for purchasing this SN-258 PLUS cordless telephone, one of the high-quality products produced by SENAQ. To obtain optimum performance, please be sure to read this manual carefully before starting operation and keep it for future reference.

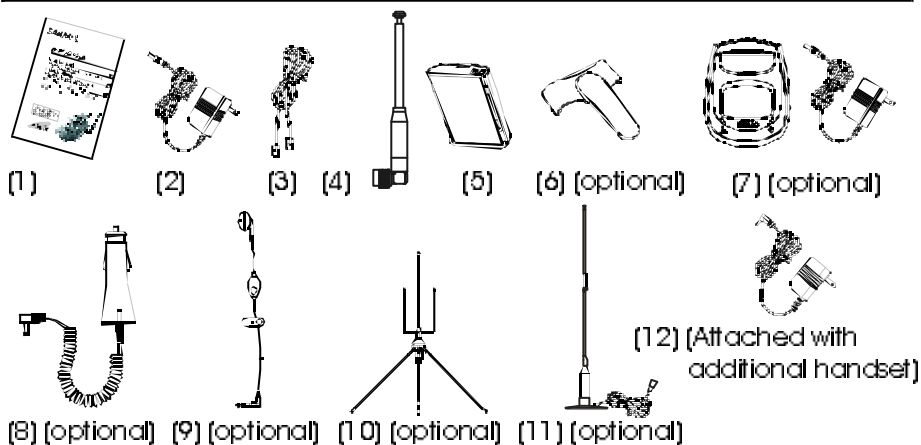
## Before Initial Use

For the efficient and safe operation of your SN-258 PLUS, please read the page 34~35 before use.

## Accessories

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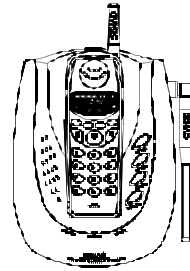
1	Instruction manual	1 book
2	AC adaptor for base unit (DC 12V/ 800mA)	1 pc
3	Telephone line	1 pc
4	Telescopic antenna for base unit	1 pc
5	Battery pack (Ni-Mh 750mAh)	1 pc
6	Belt clip	(optional)
7	Charger with AC adaptor	(optional)
8	Vehicle charger	(optional)
9	Ear-microphone	(optional)
10	Outdoor antenna with cable for base unit	(optional)
11	Car antenna	(optional)
12	Travel charger	(Attached with additional handset)



## For Best Performance

### Battery Charge

To power the handset, install the battery (p.9) and charge it for about 12 hours before initial use (p.10).



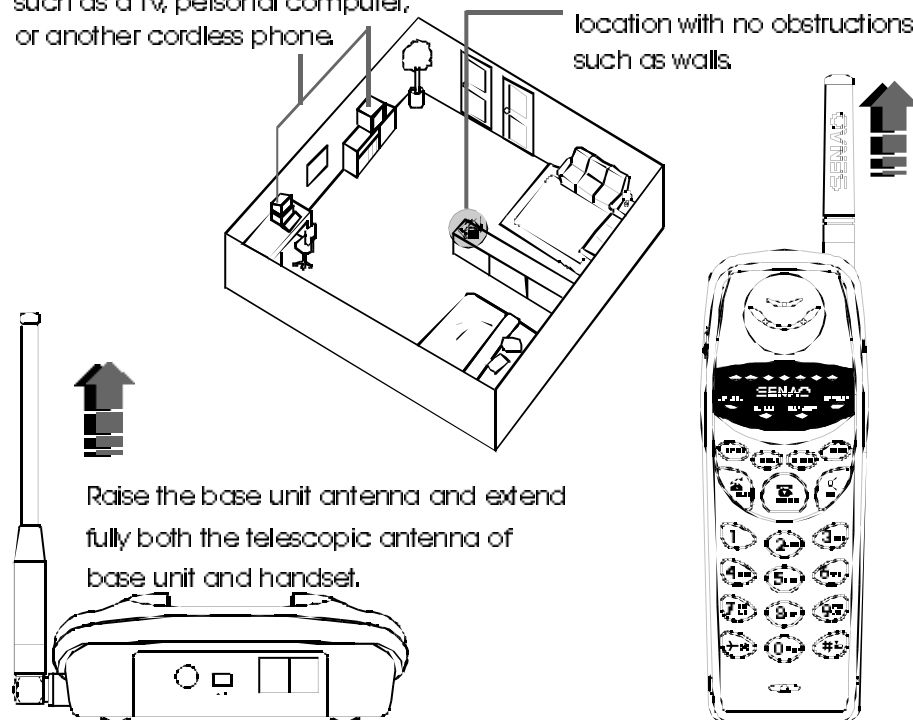
## Operating Distance/Noise

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Calls are transmitted between the base unit and the handset using wireless radio waves. For maximum distance and noise free operation, the recommended base unit location is:

Away from electronic appliances such as a TV, personal computer, or another cordless phone.

At a HIGH and CENTRAL location with no obstructions such as walls.



Raise the base unit antenna and extend fully both the telescopic antenna of base unit and handset.

2-EN

## Contents

<b>Features</b> . . . . .	<b>.5</b>
<b>Location of Controls</b> . . . . .	<b>6</b>
A. Base Unit . . . . .	.6
B. Handset . . . . .	.7
C. Charger (optional) . . . . .	.7
<b>Installation</b> . . . . .	<b>8</b>
A. Base Unit . . . . .	.8
B. Handset . . . . .	.9
C. Twin Charger (Optional) . . . . .	.9
D. Charging Battery . . . . .	.10
E. Travel Charger (For Additional Handset) . . . . .	.10
F. Ear-microphone (Optional) . . . . .	.11
G. Vehicle charger (Optional) . . . . .	.11
H. Outdoor Antenna (Optional). . . . .	.12
<b>Basic Operation.</b> . . . . .	<b>15</b>
A. Turn On/ Off the Handset . . . . .	.15
B. Making Calls . . . . .	.15
C. Redial . . . . .	.15
D. Automatic Dialling . . . . .	.16
E. Answering Calls. . . . .	.16
F. Intercom . . . . .	.17
G. Intercom during a Call . . . . .	.18
H. Call Waiting . . . . .	.19
I. Walkie-Talkie between handsets . . . . .	.19
J. Group Call (Walkie-Talkie Mode) . . . . .	.20

**EN**

**Advanced Operation. . . . . 23**

- A. Adjusting Ringer Volume. . . . . 23
- B. Adjusting Voice Volume . . . . . 24
- C. Selecting Voice Mode . . . . . 25
- D. Transferring a Call among Handsets. . . . . 25
- E. Changing the Channel during a Conversation. . . . . 26
- F. Display the Battery Status. . . . . 26

**Features Setting. . . . . 27**

- A. Setting the Base Unit. . . . . 27 **EN**
  - 1. Setting Pause duration. . . . . 27
  - 2. Setting Dialling Mode. . . . . 27
  - 3. Setting Flash Duration. . . . . 27
  - 4. Setting amount of Handsets in the System. . . . . 28
  - 5. Setting Transferring Waiting Time . . . . . 28
  - 6. Setting Call-back Waiting Time . . . . . 28
- B. Setting the Handset . . . . . 29
  - 1. Change Handset's ID . . . . . 29
  - 2. Setting Ring Mode for each Handset . . . . . 29
  - 3. Setting Stand-by Time for each Handset . . . . . 30

**Registering Handset for Multi-handset System . . . . . 31**

- A. Handset Registration . . . . . 31
- B. De-registering Handset . . . . . 32
- C. Checking the Handset's ID Number. . . . . 32
- D. Checking the Parameters . . . . . 32

**Troubleshootings . . . . . 33**

**Specification. . . . . 34**

**Important Safety Instructions . . . . . 35**

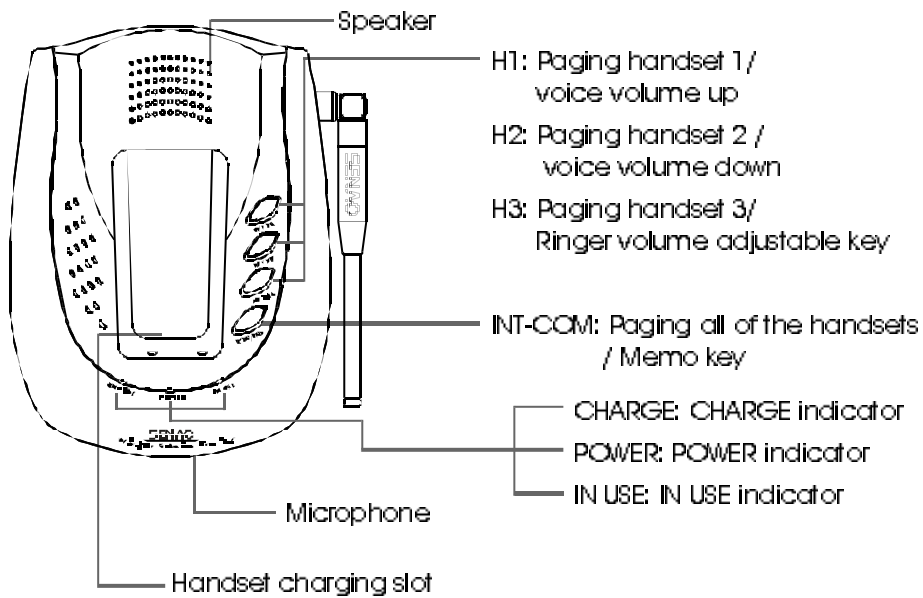
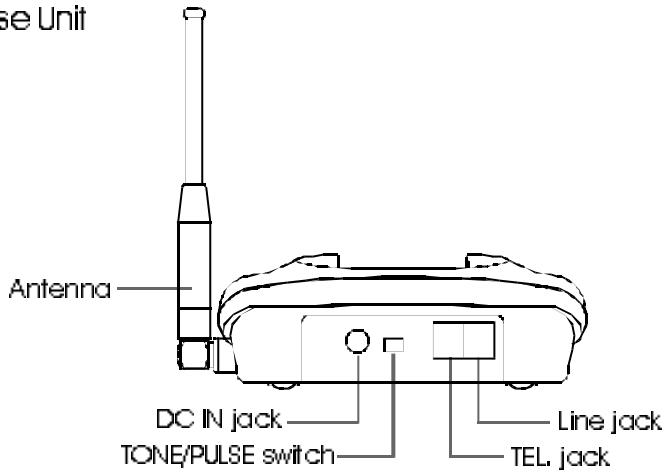
## Features

- \* Multi-channel access with auto-scan.
- \* Multi-handset system (up to 15).
- \* Multi-base system (up to 4).
- \* Walkie-talkie between handsets (up to 15 handsets).
- \* Half-Duplex group call.
- \* Two-way paging and hands-free intercom.
- \* 10-set memory dial for each handset (20 digits).
- \* Last number redial.
- \* Tone/Pulse dialling mode selectable.
- \* Change channel during conversation.
- \* Keypad lock function.
- \* Flash time programmable.
- \* Ring volume adjustable.
- \* Voice volume adjustable.
- \* Music on hold.
- \* Touch any key answer.
- \* Handset with power saving circuit.
- \* Low battery alert and indicator.
- \* Out of range alert.
- \* Battery power status display.
- \* Fast charge.
- \* Built-in noise cancellation circuit (Compander).
- \* Built-in voice security and mutation circuit (Scrambler).
- \* Auto answer and auto hang up.
- \* Transferring a call among handsets.
- \* Hands-free kit for handset (optional).
- \* Separate charger (optional).
- \* Vibration alert (Vibration version only).

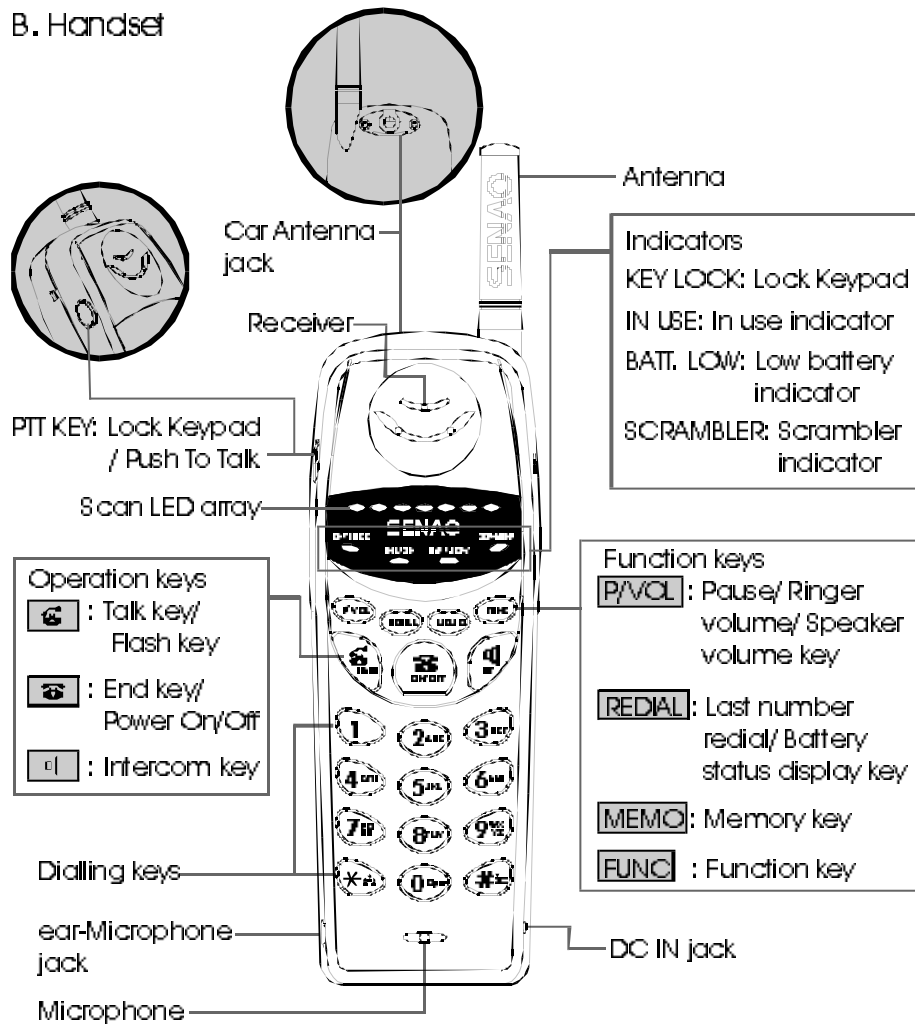
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## Location of Controls

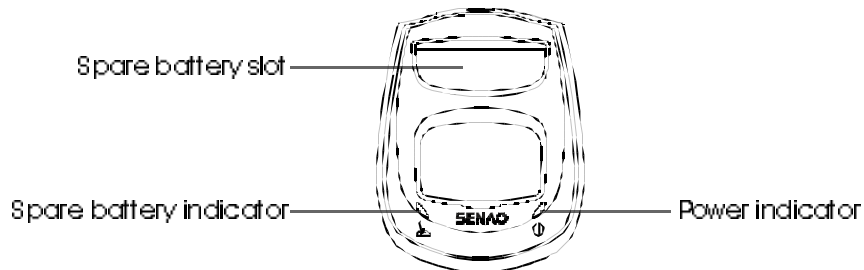
### A. Base Unit



## B. Handset



## C. Twin Charger (Optional)

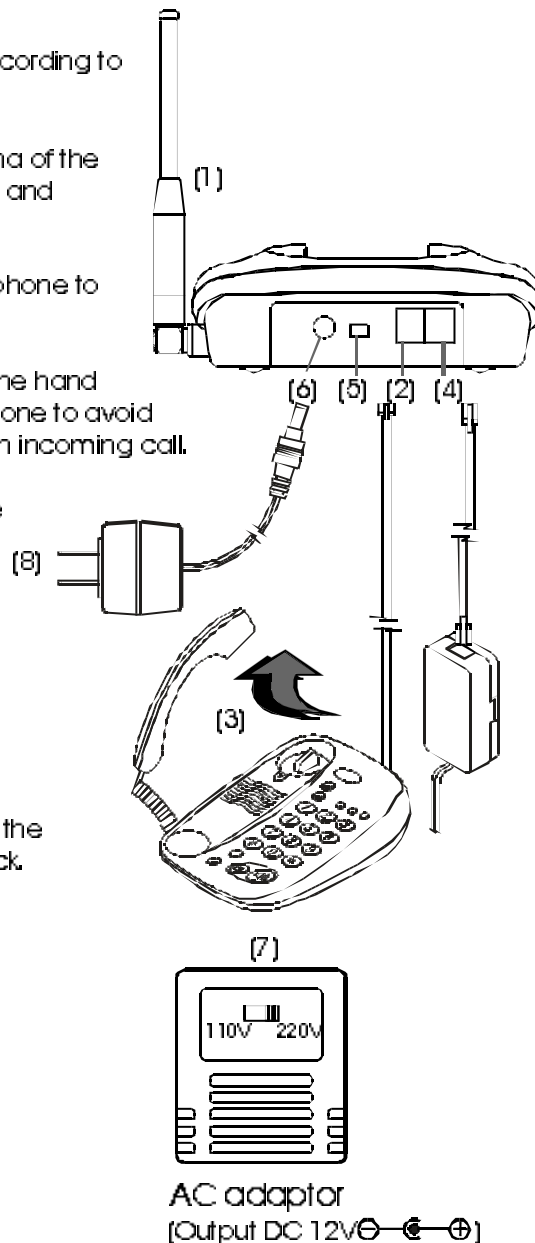


## Installation

### A. Base Unit

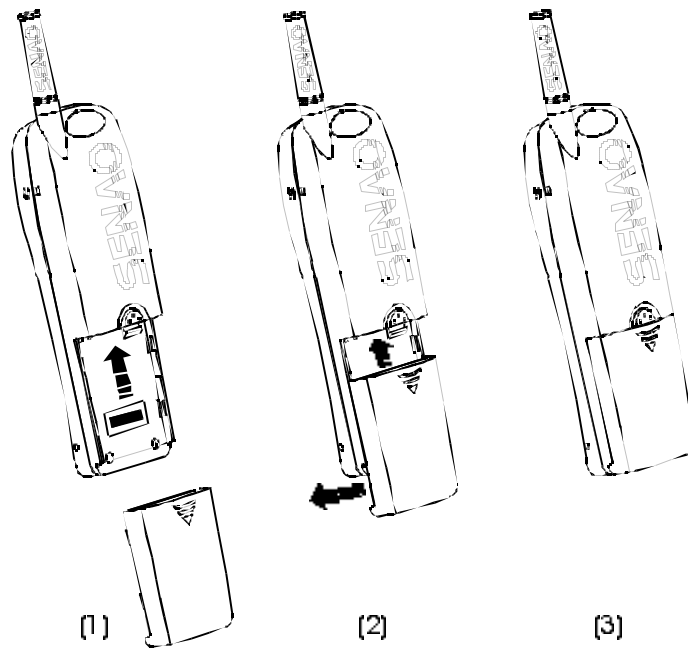
Please set up the base unit according to the following steps (1)~(8).

- (1) Install the telescopic antenna of the base unit and extend it fully and vertically.
- (2) Connect the standard telephone to the TEL. jack.
- (3) During installation, pick up the handset of the standard telephone to avoid electric shock caused by an incoming call.
- (4) Connect the telephone line to the LINE jack with the local telephone system.
- (5) Set the dialling mode to TONE. If you can not dial, set it to PULSE.
- (6) Please use only the SENAQ AC adaptor supplied with the base unit, and connect the AC adaptor to the DC IN jack.
- (7) The AC adaptor is set on 220V. If your power source is 110V, please switch it to 110V before installing.
- (8) Plug the AC adaptor into power outlet.



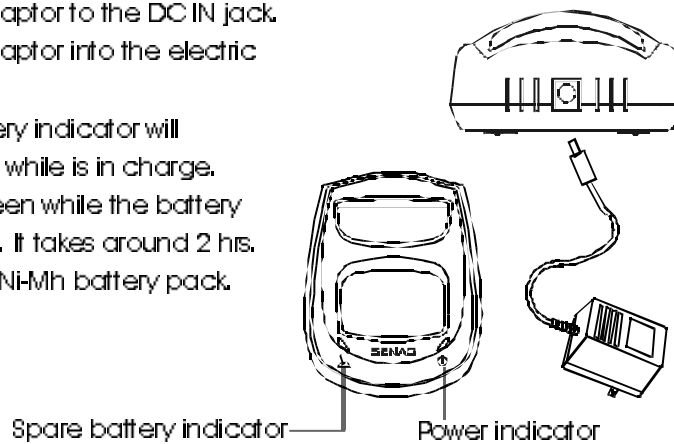
## B. Handset

Take the battery from gift box and clip it into the handset.



## C. Twin Charger (Optional)

- (1) Plug the AC adaptor to the DC IN jack.
- (2) Plug the AC adaptor into the electric wall outlet.
- (3) The spare battery indicator will become flash while is in charge. It becomes green while the battery is fully charged. It takes around 2 hrs. to fully charge Ni-Mh battery pack.

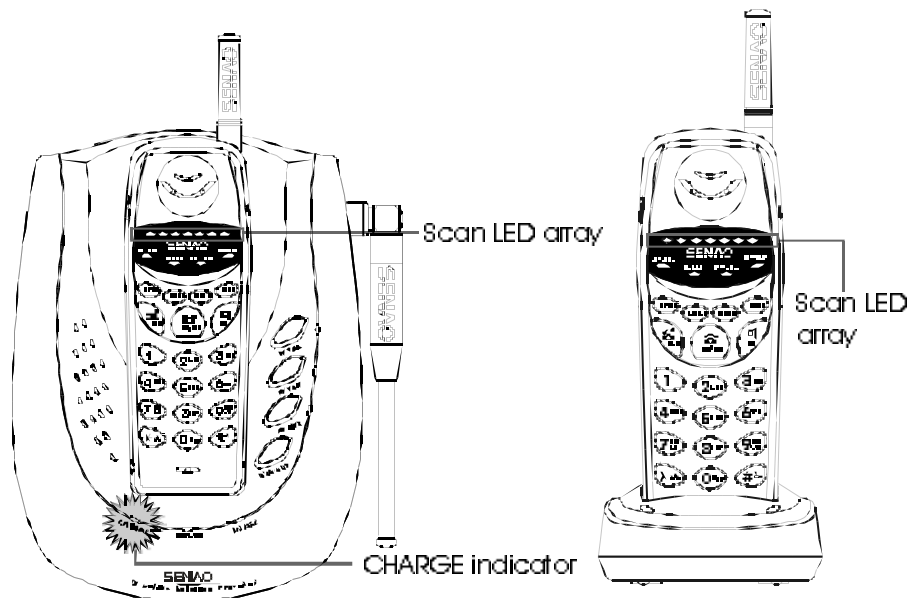


Note: Please use only the SENAQ AC adaptor supplied with this charger.

## D. Charging Battery Charge

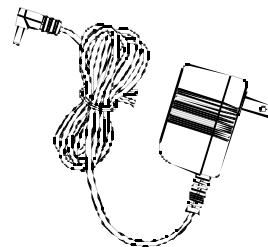
The handset can be charged on the base unit or the charger.

- (1) Place the handset on the base unit with facing up.  
The CHARGE indicator will light up.
- (2) Place the handset on the charger with standing up.  
The scan LED array will run up.
- (3) The fast charging will be activated automatically, and the scan LED array runs fast indicating this operation.
- (4) The slow charging automatically starts once the fast charging is finished. The scan LED array runs slowly for slow charging.



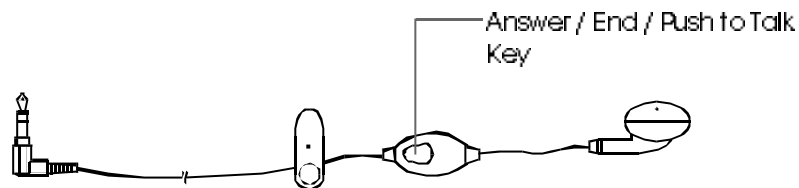
## E. Travel charger (For Additional Handset)

Plug the charger into a wall socket and insert the plug to the DC IN jack of your handset. The charging times is approximately 5 hours. Check the charging status on the LED array. The operation of handset could be executed during the charging process.



## F. Ear-Microphone (Optional)

You can answer and end calls by pressing the button on the microphone part of the ear-microphone. It also could be used as the Walkie-Talkie function. You can press button to talk, then release it to listen.

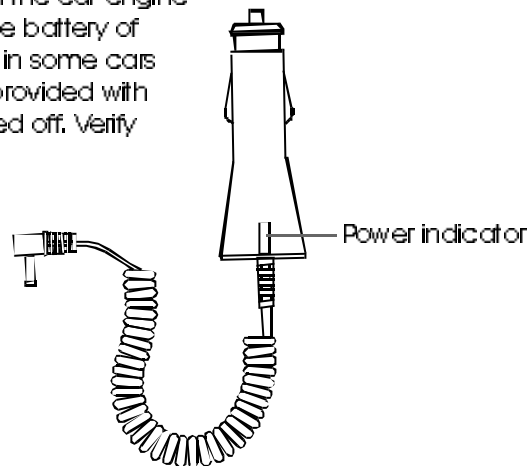


Note: To end calls, please keep pressing button for more than 2 sec.

## G. Vehicle charger (Optional)

The vehicle charger's ensures your phone is ready for use wherever you travel. This small charger's functional design fits most car lights and interiors. The charging time is about 5 hours, and you can use your phone freely during charging. A green light indicates that is ready for charging. Check the charging status on the phone display. The input voltage can be 12 or 24 VDC, negative grounding.

Avoid prolonged charging when the car engine is not running, this may cause the battery of your car to drain. Note also that in some cars the cigarette lighter plug is not provided with electricity if the ignition is switched off. Verify that green LED light is on.



## H. Outdoor Antenna (Optional)

Installation of the outdoor antenna is very important for communication range and quality. Be sure to follow the following procedures.

1. The tops of the base unit should be matched with the marks on the antenna, as illustrated in Figure 1.

NOTE: Use the screw driver to screw the antenna tight.

2. Lock the 6 ground planes with the base part as illustrated in Figure 2.

NOTE: Long and short ground planes should be alternately arranged.

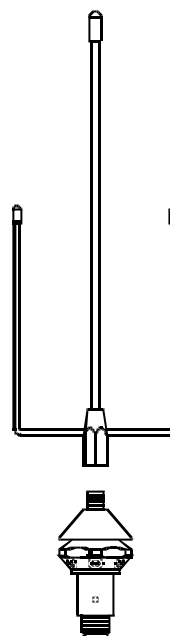


Figure 1

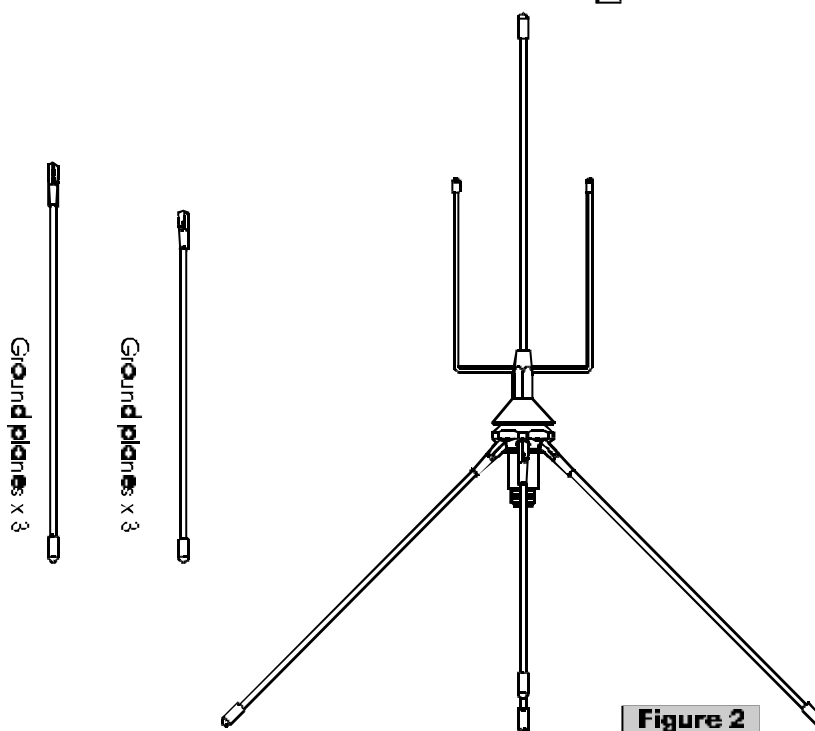


Figure 2

3. Assemble cable jack with the base part as illustrated in Figure 3.

4. Find a pole which is over 5 M long and 22~39 mm in diameter and connect it with the base tube as indicated in Figure 4.

NOTE: A bamboo pole is preferred if a metal one is used, be sure it is isolated.

5. Put up the pole and make a loop with the cable cord. The loop which is 15 cm in diameter is made to prevent water from going down into the base unit (as figure 5).

6. The assembled outdoor antenna (as indicated in Figure 6).

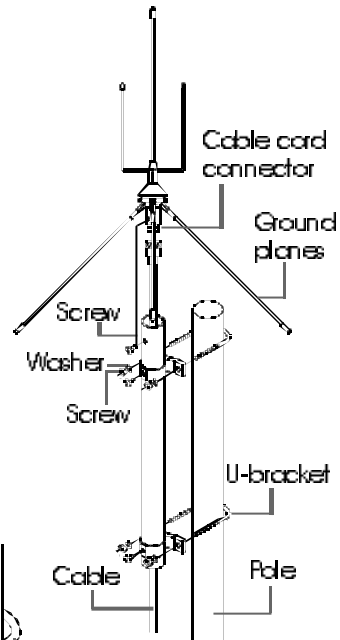


Figure 3

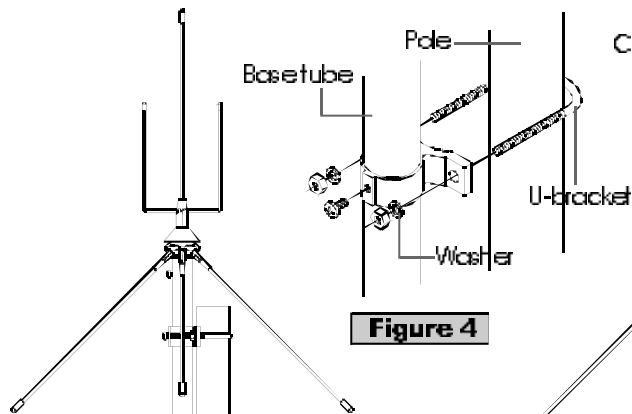


Figure 4

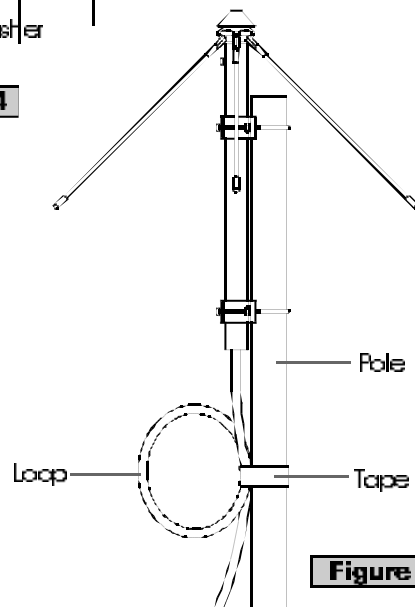


Figure 5

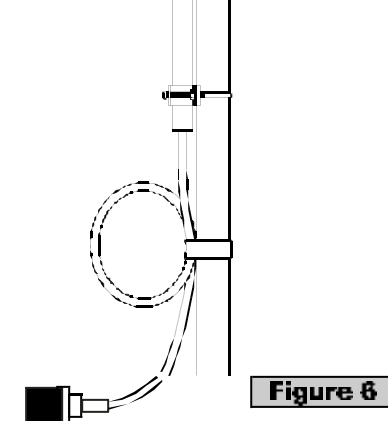
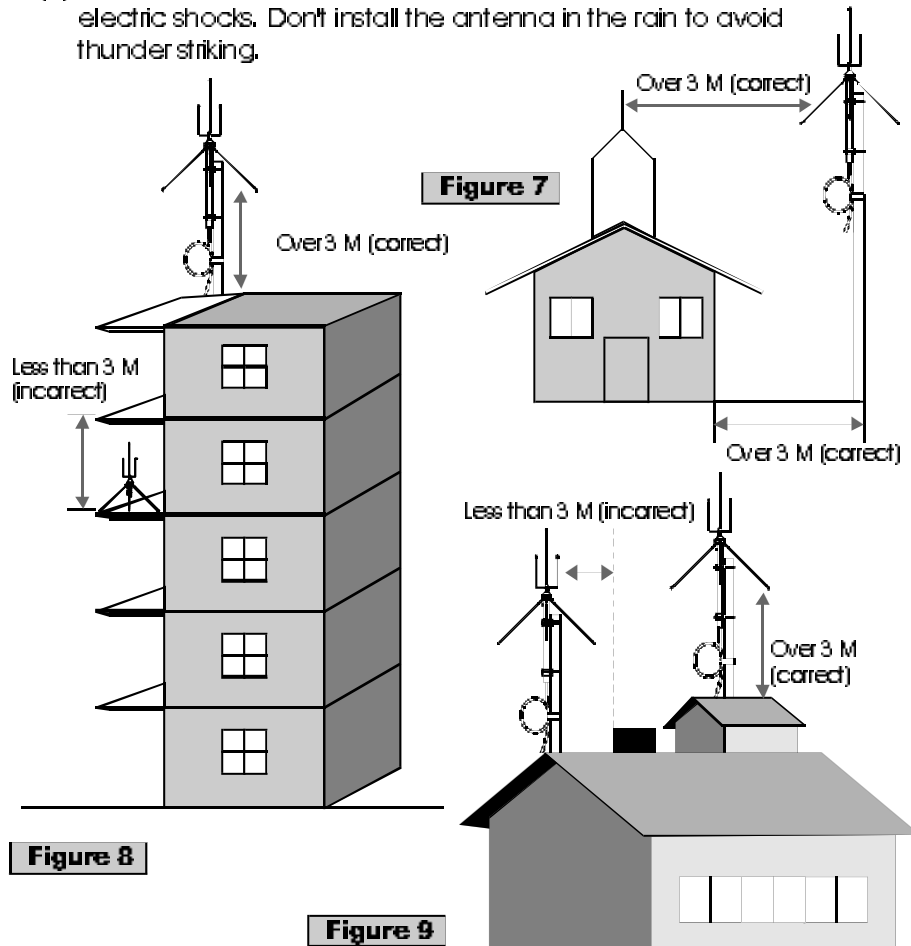


Figure 6

NOTES


- (1) Make sure that the cable is tied to the cable connector in order to maintain the radio frequency transmission performance.
- (2) The ground plane should be at least 3 meters above the ground.
- (3) No obstruction can be present within 3 meters from the antenna (as shown in Fig 7~9).
- (4) Straighten the remaining cable.
- (5) Bending cable cord will increase loss of transmission power.
- (6) Make a loop before pulling the cable into the house. The loop can prevent rain from going into the house.
- (7) The higher the antenna is installed the better the communication will be.
- (8) Keep the antenna and cable from high-voltage sources to avoid electric shocks. Don't install the antenna in the rain to avoid thunder striking.

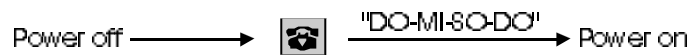


## Basic Operation


### A. Turn On / Off the Handset

#### 1. Turn on the handset

When the handset is power off, press  to turn it on. A power on tone 'DO-MI-SO-DO' sounds.



#### 2. Turn off the handset


When the handset is in stand-by mode, press and hold  about 2 seconds until a power off tone 'SO-MI-DO' sounds.




### B. Making calls

For example, dial the phone number 221 83588



Press  first, then dial the number after hearing the dial tone.

- To hang up, press  or place the handset on the base unit or on the charger to hang up the phone.

### C. Redial

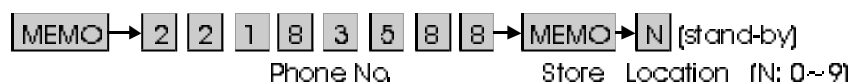


While in stand-by, press  first, then press REDIAL.

- During a call, press REDIAL to redial the last number dialled

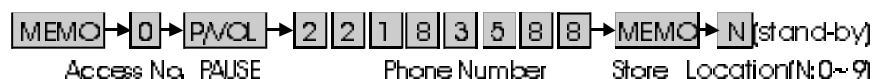
## D. Automatic Dialling

1. Storing phone numbers in memory (10 sets of 20-digit number maximum) (in stand-by mode)



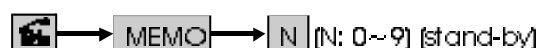
2. If the base unit is connected to a PBX

We recommend you press (PAUSE) between the access number **0** or **9** for an outside line and the phone number.



- Pressing (PAUSE) once creates a 6 second pause (P 27). This prevents mis-dialling when you redial or dial a stored number.
- When finished, a confirmation tone "bi-bi" sounds.
- When failed, an error tone "bi-bi-bi" sounds.
- If misdialled, press to end storing, then restart.

3. Dialling a stored number



Auto dial the phone number stored in location " N".

Press first, then press **MEMO** → **N** after hearing the dial tone.



## E. Answering Calls

Press (or any key except ) on the handset to answer a call.





- If the handset is placed on the base unit or on the charger, pick it up to answer a call.
- To hang up, press or place the handset on the base unit or on the charger.

## F. Intercom









### 1. Paging the base unit from the handset

- (1) Handset: Press  and the intercom is automatically established.
- (2) Base unit: When the other party's voice is heard, answer through the microphone.
- (3) Handset: To end the intercom, press  or place the handset on the base unit or on the charger.



### 2. Paging all the handsets from the base unit

- (1) Base unit: While in stand-by press  and all the handsets ring for 30 seconds.
  - To stop paging, press  again.
- (2) Handset: Press any key except  or pick it up if it is placed on the base unit or on the charger to answer.
- (3) Handset: To end the intercom, press  or place the handset on the base unit or on the charger.

### 3. Paging the desired handset from the base unit

- (1) Base unit: Press  (or , ) and the handset 1 (or 2,3) rings for 30 seconds.
  - To stop paging, press  (or , ) again.
- (2) Handset 1 (or 2, 3): Press any key except  or pick it up if it is placed on the base unit or on the charger to answer.
- (3) Handset 1 (or 2, 3): To end the intercom, press  or place the handset 1 (or 2,3) on the base unit or on the charger.

4. Paging the desired handset which number is over 3 from the base unit  
For example: Page the handset No.5 through the handset No. 2.

- (1) Base unit: Press **INT-COM** or **H2**.
- (2) Handset No. 2: Press any key except  to answer.
- (3) Handset No. 2: Press **FUNC** **5** to transfer the paging and the handset No. 5 rings for 30 seconds (R 28).
- (4) Handset No. 5: Press any key except  to answer.  
If the handset No. 5 doesn't answer, the paging will be back to handset No.2 which will ring for 50 seconds (R 28).


**NOTE:**

1. During paging from the base unit:

A confirmed melody sounds if the base unit receives the response from handsets. If the melody does not sound, it means that:



- (1) The handset is off.
- (2) The handset is out of communication range.
- (3) The handset's ring mode is set at "4" (R 29).

2. During the intercom:

- (1) Intercom can only be ended by the handset.
- (2) If a bell sounds, an incoming call has been received. To answer, press  and the intercom is ended.


## G. Intercom during a call


During a call, press .

- The call is put on hold and the hold music is heard on line.
- A warning beep sounds every 30 seconds.
- To resume the call, press .
- To end the intercom and hang up, press .

## H. Call Waiting

You can answer another incoming call by using call waiting service.

During a call, press  (FLASH) on handset if you hear a call waiting tone.




- The first call is put on hold and you can answer the second call.
- To return to the first caller, press  (FLASH) again.
- Users should apply for the call waiting service from your local telephone company.
- Duration of "FLASH" is adjustable; see page 27 for reference.

## I. Walkie-Talkie

The multi-handset system enables you to talk between the handsets in Walkie-Talkie mode. The communication between the handsets is by way of the base unit.

1. Walkie-Talkie between two handsets (ex: No. 5 paging No.8)

(1) Handset No. 5: Press **FUNC**  **8** and the handset No. 8 rings for 30 seconds


- If during a call, the call is put on hold.
- If during the intercom, the intercom is ended.
- To stop paging and resume the call, press  .
- To stop paging and resume the intercom, press  .
- To stop paging and hang up, press  .

(2) Handset No. 8: Press any key except  to answer and enter the Walkie-Talkie mode.

- If the handset No. 8 doesn't answer, during a call or intercom, the paging will be back to the handset No. 5 which will ring for 30 seconds.


(3) Handset: Press and hold **PTT** key to talk.  
Release **PTT** key to listen.

(4) Handset: To end the Walkie-Talkie and resume the call, press  .

To end the Walkie-Talkie and resume the intercom, press  .

To end the Walkie-Talkie and hang up, press  .

NOTE: During the Walkie-Talkie:




1. While in the Walkie-Talkie mode, all of H1, H2, H3 indicators light up to show such function is working.
2. If holding a call, a warning beep sounds every 30 seconds.
3. If you keep to listening and not press **PTT** key to talk up to 4 minutes, warning beeps will sound. The handset will end Walkie-Talkie function.
4. The voice volume is adjustable.
  - Base unit: To increase, press **H1**.  
To decrease, press **H2**.
  - Handset: Press **P/VOL**.
5. Once an incoming call comes, the Walkie-Talkie mode will be ended. You can press any key except  to answer incoming call.


## J. Group call (Walkie-Talkie mode)

### 1. Walkie-Talkie among all the handsets

(ex: paging all the other handsets from the handset No. 2)




(1) Handset No. 2: Press **FUNC**   and all the other handsets ring for 30 seconds.

- If during a call, the call is put on hold.
- If during the intercom, the intercom is ended.
- To stop paging and resume the call, press .
- To stop paging and resume the intercom, press .
- To stop paging and hang up, press .





(2) Any other handset: Press any key except  to answer and enter the Walkie-Talkie mode.

- If all the other handsets don't answer, during a call or intercom, the paging will back to the handset No. 2 which will ring for 30 seconds.



(3) Handset: Press and hold **PTT** key to talk.  
Release **PTT** key to listen.

- (4) Handset: To end the Walkie-Talkie and resume the call, press  .  
To end the Walkie-Talkie and resume the intercom, press  .  
To end the Walkie-Talkie and hang up, press  .

2. Walkie-Talkie among the base unit and all the handsets (paging all the handsets from the base unit)

- (1) Base unit: While in stand-by, press and hold **INT-COM** for 2 seconds and all the handsets ring for 30 seconds.  
To stop paging, press **INT-COM** again.
- (2) Any handset: Press any key except  to answer and enter the Walkie-Talkie mode.
- (3) Base unit: Speak to the microphone.  
Handset : Press and hold **PTT** key to talk.  
Release **PTT** key to listen.
- (4) Base unit: To end the Walkie-Talkie, press and hold **INT-COM** for 2 seconds.  
Handset: To end the Walkie-Talkie and resume the call, press  .  
To end the Walkie-Talkie and resume the intercom, press  .  
To end the Walkie-Talkie and hang up, press  .

3. The user of third or more handsets can join the group call with walkie-talkie mode

- Press  or  to join the Walkie-Talkie.  
A confirmed tone "SO-SO-DO" sounds.

4. The base unit can join group call also.

- To join the Walkie-Talkie, press **INT-COM** .  
A confirmed tone "SO-SO-DO" sounds.
- To release the Walkie-Talkie, press **INT-COM** again.  
A release tone "DO-DO-SO" sounds.

5. If all of users in this mode don't press **PTT** key to talk more than 4 minutes, warning beeps will sound and this mode will be ended.

## K. Lock Keypad of handset

This function enables you to lock the keypad of handset.


1. Enable key lock: press **PTT** key twice within 0.8 sec. The keylock LED indicator will light up as well as keypad sound "bi" disappears to confirm this process. (Handset will sound "bi-bi-bi" once fail to complete above process)
2. Disable key lock: Press **PTT** key twice within 0.8 sec under the condition of key lock.
3. During the process of key lock, all keypads will temporarily work once handset receives paging to activate communication. Keypads will be locked again once you finish communication.


## Advanced Operation


### A. Adjusting the Ringer Volume

#### 1. Base unit

The ringer volume of the base unit can only be adjusted in intercom mode.

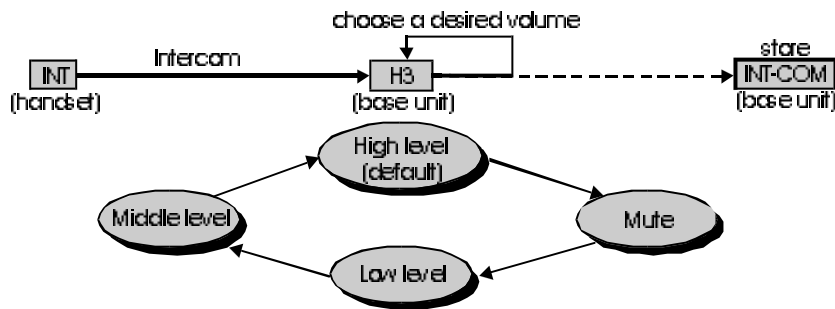
(1) Handset: Press  and make sure that the intercom is established.

(2) Base unit: Press  to select the ringer volume.

- There are 4 available levels, including mute, low level, middle level, and high level. They are set in cycle. Each time you press , a bell sounds and the ringer volume will be changed.

(3) Base unit: When finished, press  to store the volume level.


(4) Handset: Press  to end the intercom.



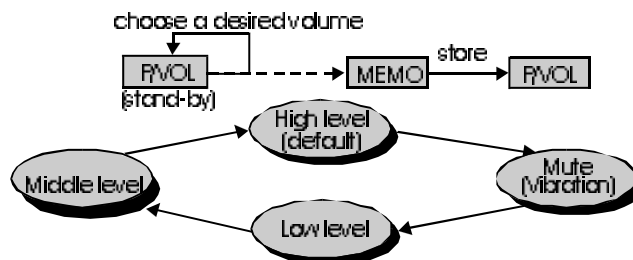
#### 2. Handset

The ringer volume of the handset can only be adjusted in stand-by mode.

(1) Press  to select the ringer volume.

- There are 4 available levels, including mute (vibration), low level, middle level, and high level. They are set in cycle. Each time you press , a bell sounds and the ringer volume will be changed.

(2) When finished, press   to store the volume level.





## B. Adjusting the Voice Volume

### 1. Base unit

The voice volume of the base unit can only be adjusted in intercom mode.

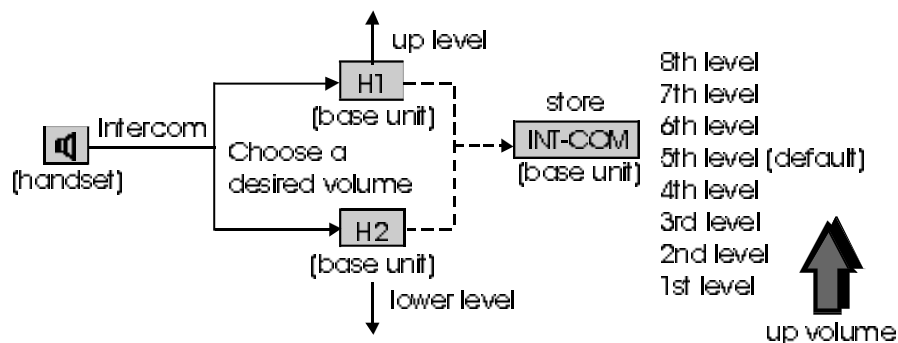
(1) Handset: Press  and make sure that the intercom is established.

(2) Base unit: There are 8 available levels.


- To increase, press .
- To decrease, press .


(3) Base unit: When finished, press  to store the volume level.



(4) Handset: Press  to end the intercom.

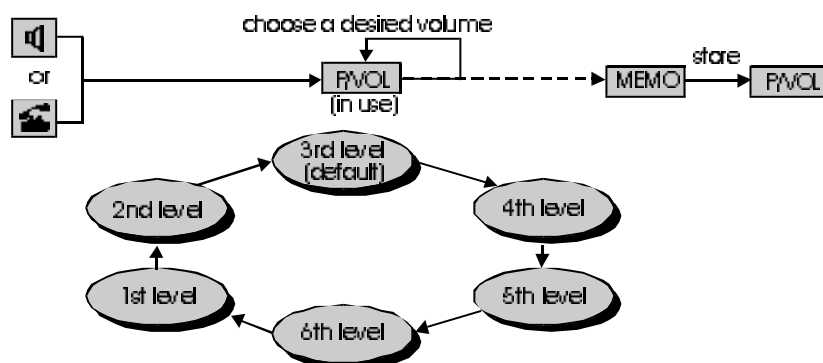


### 2. Handset

(1) Press  while in use to adjust the voice volume.

- There are 6 available levels being set in cycle. Each time you press , the voice volume will be changed.

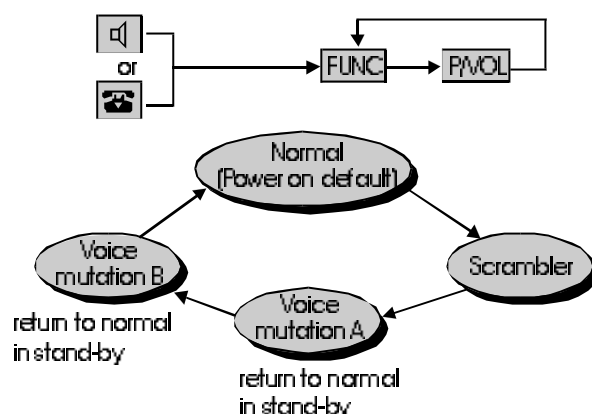
(2) Press   to store the volume level.



### C. Selecting the Voice Mode

Press **FUNC** **PVOL**, while in use, to select the voice mode.

- There are 4 available modes being set in cycle. Each time you press **FUNC** **PVOL** the voice mode will be changed.



Voice mode	SCRAMBLER indicator
Normal	light off
Scrambler	light up
Voice mutation A	slow blink
Voice mutation B	fast blink

### D. Transferring a Call among Handsets

The multi-handset system allows you to transfer a call among the handsets.

#### 1. Transferring a call from the handset No. 5 to the handset No. 8


(1) Handset No. 5: During a call, press **FUNC** **8**.


- The call is put on hold.
- The handset No. 8 rings for 30 seconds (P. 28).
- To stop transferring, press any key except **END**.

(2) Handset No. 8: Press any key except **END** or pick it up if it is placed on the base unit or on the charger to answer.

## 2. Transferring a call from the handset No.5 to any other handset

(1) Handset No. 5 : During a call, press **FUNC** **\*** .

- The call is put on hold.
- All the handsets except No. 5 ring for 30 seconds (P 28)
- To stop transferring, press any key except  .

(2) Any other handset: Press any key except  or pick it up if it is placed on the base unit or on the charger to answer.

## E. Changing the Channel during a Conversation

To change channel is available while you get interference during a conversation.

Handset: Press **FUNC** **#** during a conversation.

## F. Display the battery status

The LED array of the handset can display the capacity of the battery.


Handset: Press **REDIAL** while in stand-by mode.

LOW  FULL

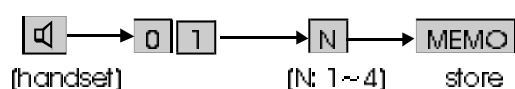
- The more light-up LED bar, the more capacity battery is

## Setting Features

### A. Setting the Base Unit

The parameters of base unit are set through the handset. First, press  on handset and make sure that the intercom is established.

#### 1. Setting PAUSE duration



N : PAUSE duration

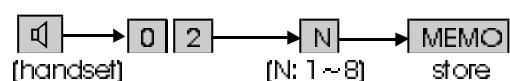
: 2 seconds

: 3 seconds

: 4 seconds

: 6 seconds (default)

#### 2. Setting dialling mode



N : Speed of pulse dialling mode

: 20 PPS 40/60

: 20 PPS 33/67

: 10 PPS 40/60

: 10 PPS 33/67 (default)

N : Inter-digital-time of DTMF dialling mode

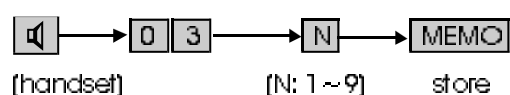
: 140 ms

: 200 ms

: 70 ms

: 100 ms (default)

#### 3. Setting flash duration



N: flash duration

: 100 ms

: 200 ms

: 300 ms

: 400 ms

: 500 ms

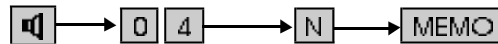
: 600 ms (default)

: 700 ms

: 800 ms

: 900 ms

4. Setting max. amount of handsets registered to one base unit (up to 15). The amount of handsets registered to one base must be not more than this parameter.



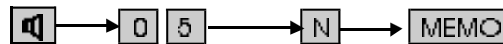
(handset) (N: 1~05) store

N: Max. amount of handsets

[1] : 1 handset (default)	[6] : 6 handsets	[0] [1] : 11 handsets
[2] : 2 handsets	[7] : 7 handsets	[0] [2] : 12 handsets
[3] : 3 handsets	[8] : 8 handsets	[0] [3] : 13 handsets
[4] : 4 handsets	[9] : 9 handsets	[0] [4] : 14 handsets
[5] : 5 handsets	[0] [0] : 10 handsets	[0] [5] : 15 handsets

5. Setting transferring waiting time

When the handset transfers a call to another handset, and if the designated handset doesn't answer within period of transferring waiting time which has been set, then it will stop paging and ring back the original handset.



(handset) (N: 1~9) store

N: Transferring waiting time

[1] : 15 sec.	[4] : 30 sec. (default)	[7] : 45 sec.
[2] : 20 sec.	[5] : 35 sec.	[8] : 50 sec.
[3] : 25 sec.	[6] : 40 sec.	[9] : 55 sec.

6. Setting call-back waiting time

Continue above item, if the handset doesn't answer the call within period of call-back waiting time which has been set, then the call will be ended.




(handset) (N: 1~9) store

N: Call-back waiting time

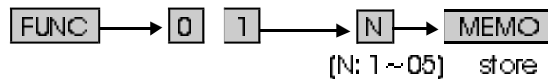
[1] : 15 seconds	[4] : 30 seconds	[7] : 45 seconds
[2] : 20 seconds	[5] : 35 seconds	[8] : 50 seconds (default)
[3] : 25 seconds	[6] : 40 seconds	[9] : 55 seconds

## B. Setting the Handset













When the setting is finished, a confirmation tone "bi-bi" sounds.  
When failed, an error tone "bi-bi-bi" sounds. If misdialed, press  to end setting, then restart.

### 1. Change Handset's ID (in stand-by mode)

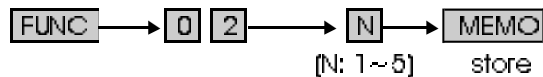
To change handset's ID, please make sure that each handset has an individual ID. It is not allowed that two handsets have the same ID and the ID number is more than the amount of handsets registered to one base unit. Once above setting is being against, the operation through base unit will be failed.








N: ID

 : 1	 :4	 :7	  :00	  :03
 : 2	 :5	 :8	  :01	  :04
 : 3	 :6	 :9	  :02	  :05

### 2. Setting ring mode for each handset (in stand-by mode)

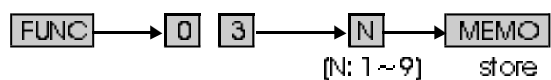


N: Ring mode

-  : ring (default)
-  : only ring 2 seconds
-  : silence
-  : make calls only, but can not answer calls
  - Under this mode the battery stand-by time is up to about 200 hours.
-  : answer calls only, but can not make calls

### 3. Setting stand-by time for each handset (in stand-by mode)

The longer stand-by time is set resulting in the longer response time of an incoming call.



N: Stand-by time

<b>1</b> : 58 hours	<b>4</b> : 80 hours	<b>7</b> : 92 hours
<b>2</b> : 66 hours	<b>5</b> : 85 hours (default)	<b>8</b> : 95 hours
<b>3</b> : 74 hours	<b>6</b> : 89 hours	<b>9</b> : 98 hours


## Registering handset for multi-handset system

Your handset(s), if purchased with base unit, is pre-registered at the factory and doesn't need to be re-registered.



### A. Handset Registration

When purchasing a new handset, be sure to follow below steps for registering it.

#### 1. The new handset (non-registered)

- (1) Install the battery (P.9)
- (2) Check the handset whether it is a new one or not by pressing  to turn it on.
  - If the handset can not be turned on, it is a non-registered one. Do the following steps 2~3.
  - If the handset can be turned on, it is the one which has registered to another base unit already. Please do the procedure B (P.32) to de-register it first, then do the following steps 2~3.

#### 2. Base unit



- (1) Unplug the AC adaptor.
- (2) Press and hold on  .
- (3) Plug in the AC adaptor.
- (4) After 3 seconds, a tone "DO-SO-MI-SO.." sounds for 10 seconds.
- (5) Release  .

#### 3. The new handset

- (1) During the tone "DO-SO-MI-SO.." sounds, place the new handset on the base unit with facing up.
- (2) A tone "DO-SO-MI-SO.." sounds from the handset.
- (3) The base unit registers the new handset automatically.
  - When successfully registered, a confirmation tone "DO-MI-SO-DO" sounds. The amount of handsets used in the system is added by one automatically.
  - The ID of new handset is set in sequence and as same as the amount of handsets used in the system.




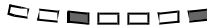









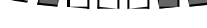

## B. De-registering handset

When a registered handset code needs to be de-registered, follow below steps.

1. If the handset is power on, press and hold  about 3 seconds to turn it off.
2. Press and hold **MEMO** and  about 3 seconds, a tone "bi-bi" sounds.

## C. Checking the handset's ID number

While in stand-by mode, the LED array indicates the ID of handset.

LED status	Handset number	LED status	Handset number
	: 1		: 9
	: 2		: 00
	: 3		: 01
	: 4		: 02
	: 5		: 03
	: 6		: 04
	: 7		: 05
	: 8		

## D. Checking the parameters

While in multi-handset system, please check the parameters set in the handsets and the base unit.

1. Each handset has an individual ID. It is not allowed that two handsets have the same ID.
2. The max. handset's ID number is suggested to be as same as the parameter "max. amount of handsets ID registered to one base".

(1) To change the ID of handset, refer to P 29.

(2) To reset the parameter "max. amount of handsets registered to one base", refer to P 28.

## Troubleshootings

If you have difficulty operating on your phone, the below suggestions should solve the problem. If you still have difficulty after trying these suggestions, please call your local SENA service station for further assistance.

### A. The Phone does not work.....

1. Check the installation (P. 8~P.14)
2. Make sure the power cord is plugged in.
3. Is the handset battery fully charged?
4. Is the handset power on?

### B. The handset does not ring.....

1. Make sure the telephone line cord is plugged firmly into the base unit and the telephone jack.
2. You may be too far from the base unit.
3. Check the ring mode for the handset (P. 29).

### C. Interference, static, sound cuts in/out, fades.....

1. Is the telescopic antennas of the base unit and the handset fully extended?
2. Move closer to the base unit.
3. Press **FUNC** **#** to change the channel.

### D. How to build multi-base units system?

Send all the base units and the handsets to your local SENA service station for setting this system.

## Specifications

Item	Base unit	Handset
<b>Transmitter</b>		
Frequency	388 MHz	262 MHz
Output power	1 W	350 m W
Spurious emission	55 dBc	55 dBc
Current consumption		
Stand-by	100 mA	7~12 mA
Talk	600 mA	350 mA
<b>Receiver</b>		
Frequency	262MHz	388MHz
Sensitivity at 12 dB SINAD (CCITT)	-122dBm	-122dBm
Adjacent channel rejection	50 dBc	50 dBc
Spurious response	55 dBc	55 dBc
Power source	AC 110V/60 Hz AC 220V/50 Hz DC 12V	4.8V/750 mAh Ni-Mh Battery
Dimension	L x W x H (mm) 195x145x51	L x W x H (mm) 150x53x32
Weight	500g	210g

## Important Safety Instructions

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The opening should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
7. Use only the power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be damaged by persons walking on it.
9. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

- 10.** Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 11.** To reduce the risk of electric shock, do not disassemble this product. Take it to an authorized service center when service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risk. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
- 12.** unplug this product from the wall outlet and refer servicing to an authorized service center when the following conditions occur:

  - A. When the power supply cord or plug is damaged or frayed.
  - B. If liquid has been spilled into the product.
  - C. If the product has been exposed to rain or water.
  - D. If the product does not work normally by following operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - E. If the product has been dropped or the cabinet has been damaged.
  - F. If the product exhibits a distinct change in performance.
- 13.** Avoid using a telephone (other than a cordless type) during an electric storm. There may be remote risk of electric shock from lightning.
- 14.** Keep the outdoor antenna cable away from sources of high-voltage to avoid electric shock when installing the outdoor antenna for this product.
- 15.** Do not use the telephone to report a gas leak in the vicinity of the leak.



**SENAO**

**SENAO INTERNATIONAL CO., LTD.**

**<http://www.senao.com>**

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