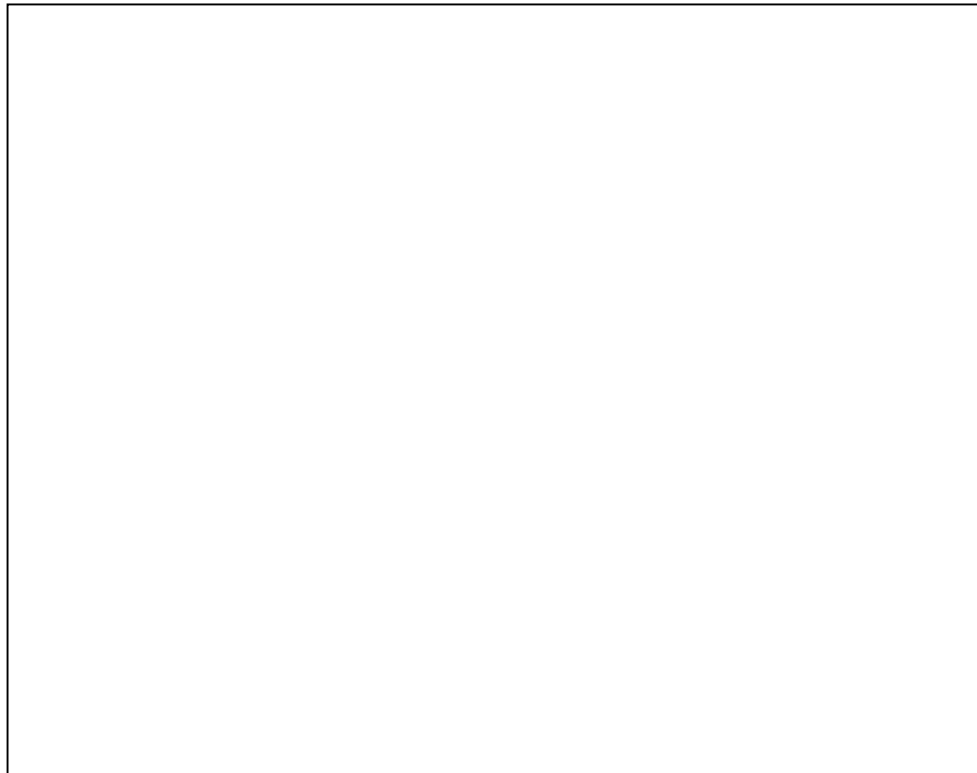




Wireless PBX System

User's Guide





Safety (refer to safety statement at the end of the manual)

FCC compliance (refer to FCC statement at the page 6)

Product Information (Serial No., Date of Purchase, etc.)

Copyright © 1999 by ABEST Communication Corp.

Table of Contents

<i>Welcome!</i>	8
<i>System box contents</i>	9
<i>Getting Started</i>	10
<i>Installation</i>	10
<i>Battery information</i>	11
<i>Location of controls</i>	12
<i>Base unit</i>	12
<i>Handset</i>	13
<i>Making, receiving, and ending calls</i>	14
<i>Making an outgoing call</i>	14
<i>Ending a call</i>	14
<i>Making an internal call</i>	14
<i>Receiving a call</i>	15
<i>Managing calls</i>	15
<i>Transferring a call</i>	15
<i>Holding a call (Hold exclusive)</i>	15
<i>Call back</i>	16
<i>Conference call</i>	16
<i>Recall (Redial)</i>	17
<i>Recent call</i>	17
<i>Picking up a call</i>	17
<i>Answering a call waiting</i>	18
<i>Phone book</i>	19
<i>Name-recall</i>	19
<i>Position-recall</i>	19
<i>Storing phone numbers</i>	19

Key vs. Letter.....	20
How to enter lower case letters.....	21
Edit	21
Erase	21
Erase all	22
Handset programming	23
Ear volume.....	23
Ring volume.....	23
Ring type	23
Key tone	23
Key lock	24
Automatic Key lock	24
Handset PIN (Private Identification Number).....	24
Call forward.....	25
Do not disturb	25
Phone Lock.....	25
Hotline	26
Speed dial.....	26
Dialing	26
Store	26
Call Recording.....	27
System programming	28
System SIN (System Identification Number)	28
DIL	28
Music on hold (optional).....	29
Toll restriction.....	29
Adding a new handset.....	29
Removing a handset	30
Line dial mode.....	30
Setting clock and date.....	31

<i>Set clock</i>	31
<i>Set date</i>	31
<i>Flash time setting</i>	31
<i>Pause time setting</i>	32
<i>CO line access code</i>	32
<i>Internal dial tone</i>	32



FCC COMPLIANCE STATEMENTS

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.**
- Increase the separation between the equipment and receiver.**
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- Consult the dealer or an experienced radio/TV technician for help.**

Changes or modifications to this equipment not expressly approved by ABEST COMMUNICATION Corp. could void the user's authority to operate the equipment.

The base unit complies with Part 68 of the FCC Rules, as required for equipment connected to the telephone line. On the bottom of the device (the central base of the WPBX-9000) is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number for this equipment. IF REQUESTED, THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY. The REN is useful to determine the number of such devices you may connect to a single telephone line and still have all those devices ring when your telephone number is called. In most, but not all areas, the sum of the RENs of all devices connected in parallel to a single line should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area. If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice isn't practical, you will be informed of your right to file a complaint with the FCC. Your telephone company may change its facilities, equipment, operations or procedures, which might have an effect on the proper functioning of your equipment. If they do, you will be notified in advance so as to maintain uninterrupted telephone service. If you experience trouble with this telephone equipment, please contact us through the address and phone number below for information on obtaining service or repairs. The telephone company may require that you disconnect this device from the network until the problem has been resolved or until you are sure that the equipment is not malfunctioning. This equipment may not be used as a coin service device, as provided by the telephone company. Its connection to party lines is subject to state tariffs.

ABEST COMMUNICATION CORP.

1788 S. CANYON OAKS BOUNTIFUL UT 84010, U.S.A.

Tel.: (801) 294-7871

Welcome!

Thank you for buying the ABEST Wireless PBX system! You have just acquired the key to mobile communications and high-speed data connectivity.



System box contents

(drawings of all the items inside the box)

Getting Started

Installation

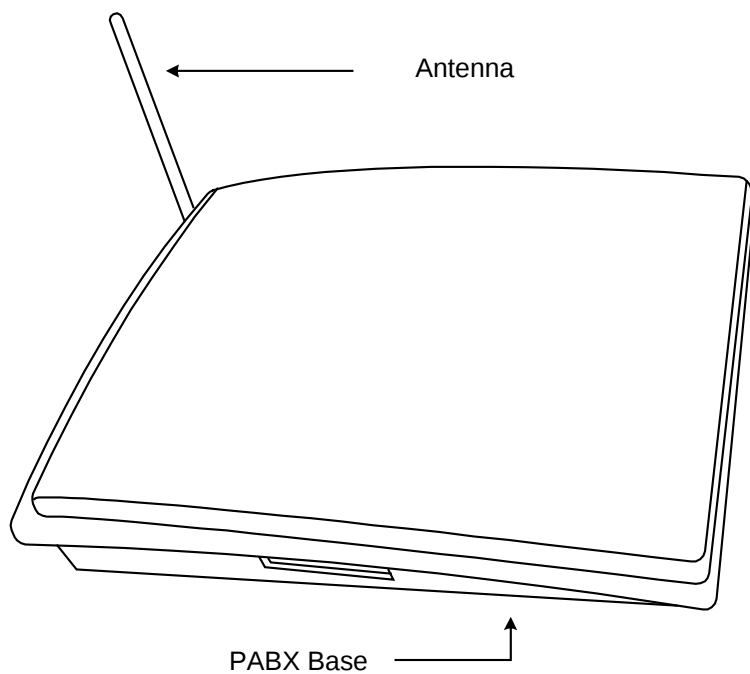
(place installation drawings here)

Battery information

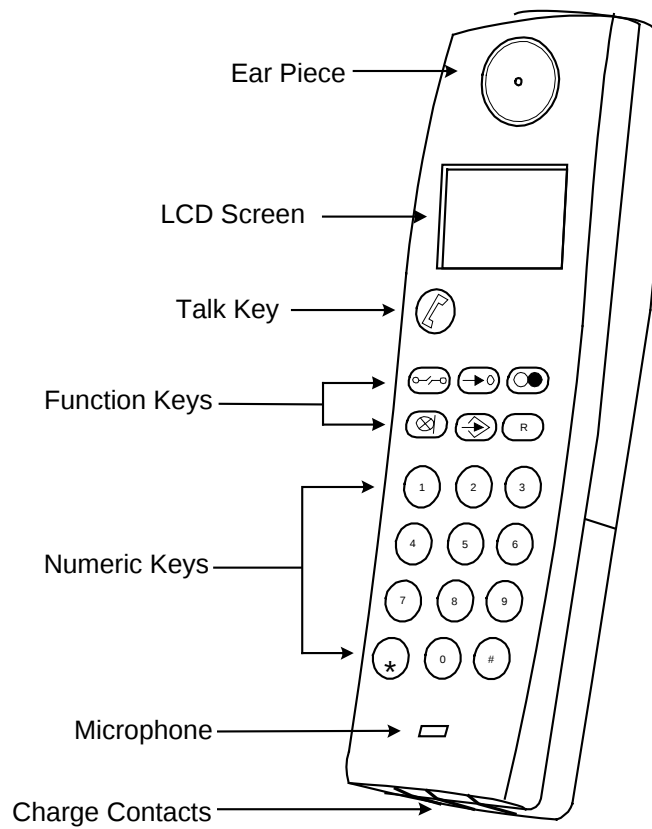
Important: Before initial use, make sure to charge the battery...

Location of controls

Base unit



Handset



Making, receiving, and ending calls

Making an outgoing call

1. Enter CO line access code (default is 9) then phone number.
2. Press 

Tip: After dialing line access code, you may insert a ***Pause*** into the phone number by pressing .

or

3. Press ; listen for internal dial tone.
4. Enter CO line access code (default is 9), after hearing dial tone.
5. Dial the phone number.

Ending a call

Press  to end the call.

Making an internal call

Press extension number then .

or

Press  then extension number.

Receiving a call

When you receive a call, the handset will ring and the LCD will display the caller's number and name (if Caller ID function is available).

6. Press  or pickup the handset from the charger cradle to answer the call.
7. When the call is finished, press  or return the handset to the charge cradle.

Tip: The LCD display will show call source, however you also determine call origination

Managing calls

Transferring a call

With a call in process, press  (transfer) and extension number, then enter  to complete the transfer. The transferred party connects to music on hold until the line is connected to the extension.

If the desired extension does not answer, the call is returned after 10 rings.

Holding a call (Hold exclusive)

When you are engaged in a call, you can put it on hold by pressing ; the caller on hold will hear **Music on Hold** and handset's LCD displays "Hold". After placing a caller on hold, you can also make and receive other calls. After 120 seconds, the call on hold automatically returns.

Press  again to retrieve call while a call is on hold.

Call back

When the user encounters an internal or CO line busy tone, or internal ring back tone (with no answer), the user can activate the call back feature in the following way:

8. Press  until **Callback** menu is selected.
9. Set by pressing .
- or
10. Short cut by pressing , 2 key.

The handset's LCD shows "**Callback**" and extension number or C.O line while a callback during ringing. Each handset has up to three call back simultaneously.

Canceling call back

To cancel the call back function when activated:

11. Press  until call back menu is selected. The LCD shows list of currently call back (up to 3).
12. Choose the call back to cancel.
13. To cancel press .

Conference call

14. Established a two-2-party call
15. Press  (transfer), transfer dial tone is heard
16. Dial the extension number or the phone number of the desired third party.

17. When the third party answers, press  (transfer) key to complete the conference call. If you receive a busy tone, or if the third party does not answer, press the  key to be connected with the original party.

In the basic system (two CO lines) the internal conference call (2 Handsets with one CO line) is valid, when only 1 CO line is engage in a call (the second CO line is on-hook). During an internal conference call, for answering the second CO line, one of the parties in the call should be put on hold.

Recall (Redial)

Press  then ; the last dialed number is called.

Recent call

18. Scroll recently called number by pressing  or after pressing , you also can use scroll key (*Δ, #▽) to select recently called number.
19. After selecting a recently called number, press  to dial.

Picking up a call

Pickup any ringing telephone

Enter  until "Pickup" shows on LCD then press  to pickup.

or

Press the , 1 key to pickup.

Pickup call-park

Enter  until "Pickup Park" shows on LCD then press  to pickup., or press the *, 3 key to pickup.

Answering a call waiting

20. Press the “FLASH” button – this will swap between the connected call and the waiting call (the connected call becomes a waiting call).

or
21. Press the “LINE” button – this will disconnect the current call and the extension will start ringing from the waiting call.

In case of two calls waiting for the same extension, “FLASH” will swap between the connected call and the “another line call waiting” (and will not generate a flash signal on the CO line).

Temporarily pulse to DTMF dialing

From the pulse mode it is possible to temporarily change to tone mode by pressing the * key.

Select specific C.O. line

22. Enter  until “Select C.O line” shows on LCD then press , LCD shows “Line Number?”
 23. Press desired CO line number (1~4) then press .
- or
- Dial 7, and the CO line (1~4).

Mute microphone

If you want to consult a third person during the call, without your conversation partner being able to hear it, then you can press  to mute microphone. When you want to continue conversation, press  again.

Phone book

Name-recall

24. Enter  until "Phone Book" shows on LCD then press .
25. Press  to select **Name-recall** function then press , you are prompted to enter a name
26. Enter either the full name or just the first letter; the first name that matches the letter(s) will be displayed, to choose this name press . You can also use the scroll keys (* Δ= up) or (# ▽= down) to select other names from the phone book. The selected name and number will be display on LCD.
27. Press  or  to dial out.

Position-recall

This function may only be used before pressing .

Enter a phone book number between 1 to 99 then . The LCD displays the corresponding name. Press  to dial out, or scroll until you find the name and number you want to call.

Storing phone numbers

28. Enter  until "Phone Book" appears on the LCD then press .
29. Press  to select **Store** function then press , you are prompted to enter a number
30. After entering the number press . The display will prompt you to enter a name.

31. Enter the first letter of the name by tapping the key with the appropriate letter. If it is the second letter you need to tap the key twice to produce it. Wait for the cursor to move to the right before entering the next letter.
32. Press  when you have completely keyed in the name. The display shows "PB:" and a position number.
33. Change "PB" if needed by up-down keys.
34. Press  to confirm the phone book position number. The display shows "Stored" for a second or two. The listing has been stored. The display changes to **Store**. You can go back to the store Function and can now enter another phone number.

Key vs. Letter

KEY	Key Depressed					
	1 time	2 times	3 times	4 times	5 times	6 times
1	Space	-	(	)	,	:
2	A	B	C	2		
3	D	E	F	3		
4	G	H	I	4		
5	J	K	L	5		
6	M	N	O	P	6	
7	P	Q	R	S	7	
8	T	U	V	8		
9	W	X	Y	Z	9	
0	0	+	\$	%	/	@
#	#	*				

How to enter lower case letters

Enter the letter A for example and then press *. The capital **A** is replaced by a lower case **a**. All letters will be lower case until you press * again.

Edit

35. Follow the Key vs. Letter table to select the **Edit** function.
36. Enter the full name or the first letter and press . The first name that matches the letters appears.

or

Scroll to the name you want and press .
37. Use the scroll keys (*= up) or (#= down) to shift the letter of name and change it, letter by letter, and press . The phone number is displayed.
38. Change the phone number if needed and press . The phone book position-number is displayed.
39. Change the position number if needed. If the new position is already occupied, you will be asked to “**Overwrite?** “ the position. Press  to confirm or to  change the Position.

Erase

40. Follow above method to select **Erase** function.
41. Enter the PB position number while “PB” is prompted. Using scroll to the name you want to delete, press  to erase.

or

Select the **Name- recall** function.
42. Choose the name you want to delete, press and hold .
43. Press  at the “Erase?” prompt.

Erase all

44. Follow above method to select **Erase all** function.
45. Press  at the “Erase all?” prompt.

Handset programming

Ear volume

46. Enter  until "**Handset Prg**". shows on LCD then press . Press  to select **Ear Vol** function. The display shows the current ear volume.
47. Press 1~6 to select ear volume level, or use the scroll keys *, # key to increase or decrease volume, then press  to confirm.

Ring volume

48. 1.Enter  until "**Handset Prg**". shows on the LCD then press .
49. 2.Press  to select **Ring Vol** function. The display shows the current ring volume.
50. Press 1~6 to select Ring Volume level, or use the scroll keys *, #key to increase or decrease volume, then press  to confirm.

Ring type

51. Select the **Ring type** function. Display shows the current ring melody.
52. Press 1~9 to select desired Ring melody then press  to confirm.

Key tone

You can use this function to disable or enable key tone sound.

53. Select the **Set key tone** function. The display shows “ Key tone on/off”.
54. Press * key to toggle it then press .

Key lock

By pressing , *, **all keys will be barred against accidental entry**. The display will indicate key lock, and the handset can only answer to an incoming call (by pressing the  button). For deactivating key lock press the , * again.

Automatic Key lock

When this feature is activated, the keys are automatically locked after 10 seconds of non-use. For deactivating automatic key lock press the , * . This feature is enabled or disabled by menu selecting.

Handset PIN (Private Identification Number)

55. Select the **Set PIN** function.
 56. Enter PIN code at the prompt (default code is 0000) and press .
 57. Key in new personal code at prompt and press .
 58. Repeat the new code at the prompt and press .
- (PIN is used to lock or unlock phone- lock function)

Call forward

59. Select to the **Call forward** function, the last forward number is shown and the symbol of “call forward” indicates this function is on or off.
60. Enter the new forward number then press .
61. The display shows forward type; you can use scroll keys *,key to select one of All calls, Unanswered call (within 20 seconds), Busy. Then press .
62. The “ON?” prompt appears. Press  to turn of alarm function or press  to disable.

Do not disturb

63. Select the **Do not disturb** function.
64. The “ON?” prompt appears. Press  to enable the **Do not disturb** function or press  to disable. The symbol  will be turned light, while this function is enabled the handset will be prohibited from ringing.

Phone Lock

This function is allowed you to protect the phone against unauthorized use of the phone.

65. Select to the **Phone lock** function.
66. Enter PIN code at the prompt (default code is 0000) and press .
67. Select lock or unlock by using * key then press . The symbol of key lock appears if phone locked.

Hotline

This function enables the user to automatically access an external line after pressing the  key without dialing the Line access code – 9.

To activate this feature:

- 68. Select Hotline in the menu
- 69. Press  to activate
- 70. Press  to deactivate

Speed dial

Dialing

- 71. Press a number between 0 to 9 for 2 seconds (when the extension is in on hook state).
- 72. When the stored number will appear on the LCD, release the key.
- 73. The PBX will automatically dial the displayed number.

Store

- 74. Enter  until "Speed Dial" appears on the LCD then press .
- 75. Press  to select **Store** function then press .
- 76. You are prompted to enter a number, after entering the number press . The display shows "PB:" and a position number.
- 77. Change "PB" if needed by up-down keys.

78. Press  to confirm the Speed Dial position number. The display shows “Stored” for a second or two. The listing has been stored. The display changes to **Store**. You can go back to the store Function and can now enter another phone number.

or

Enter the desired number (when the extension is in on hook state).

79. Press on the Speed Dial number (0 to 9) you want to assign to the above number till the message stored is displayed (about 2Sec).

Call Recording

80. Enter  until “Call Recording” appears on the LCD then press .
81. The most recent unanswered incoming call number will be displayed at top of the list.
82. Press up and down keys to view other numbers.
83. Press  to dial the current number.

System programming

84. Enter  until "System Prg" shows on LCD then press.
85. The message "Enter Password" is shown, to prompt you to enter the system password code. Enter system password then press .
86. The message " Select Fxn" is shown. Press  until to the function you want to set.

System SIN (System Identification Number)

87. Select the Set SIN function.
88. Enter SIN code at the prompt (default code is 0000) and press .
89. Key in new system code at prompt and press .
90. Repeat the new code at the prompt and press .
91. (SIN is used to program system features).

DIL

This function allows CO line incoming calls to be routed to an extension directly.

92. Select to **DIL** function.
93. The display show as: "Line: X Ext.: XX".
94. Enter CO line number (1~4) and extension number then press , the display will advance to the next CO line set same as step 2.

95. If the extension number is 00, then for this CO line, the DIL function is disabled, which means that all the incoming calls from this CO line are ringing in all available extensions.

Music on hold (optional)

You can choose the source of Music on Hold. Music on hold is supplied by (optional) audio input Jack.

Toll restriction

96. Select **Toll set** function.
97. The display shows: "Ext.: XX Rest.: X" and the message of restriction level.
98. Enter extension number and restriction level then .
99. Toll restriction level:
 - 0: Non restrict
 - 1: Barred with international calls
(the number starting with 00 and 900).
 - 2: Barred with local calls (the number starting with 0).
 - 3: Internal calls only.

Adding a new handset

This part will follow the procedure of the Butterfly process.

100. Press on the "Add new extension" button at the Base (The Base is now ready to add new extensions for a 2 minutes time window).
101. The Handset LCD display: "Base serial number"
102. Enter 16 digits of Base serial number.

103. The handset LCD display: "Ext xx" (the available non occupied numbers)

"Ext yy"

104. Select the desired extension number (2 digits, valid numbers: 10-24).

105. The Handset LCD display: "Extension name"

106. Enter the desired extension name (up to 12 characters).

The extension now is part of the system network. The extension name, number and time is being displayed.

Removing a handset

This part will follow the procedure of the Butterfly process.

107. Select "remove extension" in the menu.

108. The Handset LCD displays: "Ext xx"
(the existing extensions numbers) "Ext yy"

109. Select the extension to be removed.

110. The Handset LCD display: "Remove Ext xx ?".

111. Press  to remove.

112. Press  to escape (without removing).

Line dial mode

113. Select to **Line Type** function.

114. The display show as: "Line: XX Type: D (or P)".

115. Enter CO line number and toggle DTMF or Pulse by pressing * key.

116. Press  to confirm; and back to step 2 for next line setting.

Setting clock and date

Set clock

- 117. Select to **Set clock** function.
- 118. The display show as: "XX : xx".
- 119. Refer to below instruction to set the clock
 - Hours: Number keys.
 - Minutes: Number keys.
 - AM or PM: * key to toggle.
 - 12/24 hours: # key to toggle.

Set date

- 120. Select to **Set date** function.
 - 121. The display show the date of today as: "27 May 98". Press to set Date.
 - 122. Enter year (two digits) while the display prompt you enter Year, then press .
 - 123. Enter month and .
 - 124. Enter day and .
- (The system must be able to handle year 2000 with no problems).

Flash time setting

- 125. Select to **Set flash** function.
- 126. The display show as: "Flash X ms."
- 127. Enter Pause time 100~900 ms, or scroll until you find the pause time you want.
- 128. Press .

Pause time setting

- 129. Select to **Set Pause** function.
- 130. The display show as: "Pause X min."
- 131. Enter pause time 1~4 seconds or scroll until you find the pause time you want.
- 132. Press .

CO line access code

- 133. Select to **Line Access** function.
- 134. The display show as: "Access code: 9". or " Access code: 0".
- 135. By pressing * key to select 9 or 0 as CO line access code then press .

Internal dial tone

- 136. Select to **Int. dial tone** function.
- 137. The display show as: "Int. dial tone: X".
- 138. You can enter 1~4 to select or scroll tone type by using * or #.
- 139. Press  to confirm.