techno waiter

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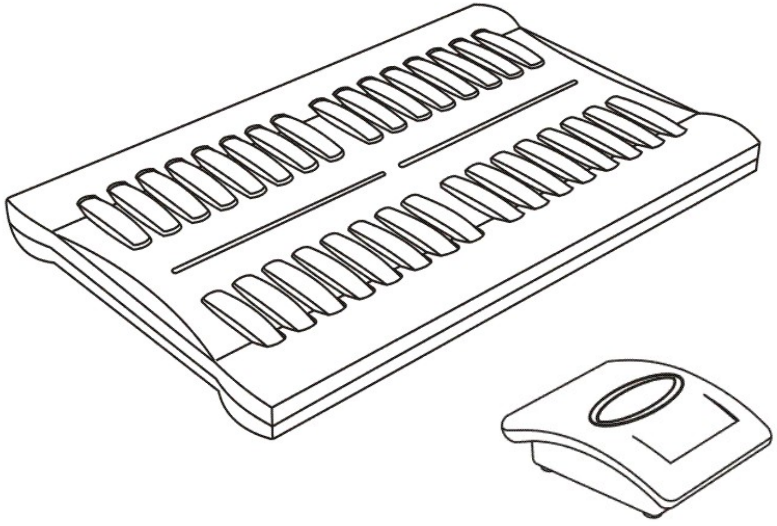
Wireless Service Bell S1



Contents

Structure of the Manual(This manual consists of following sections)

Section 1 Installation

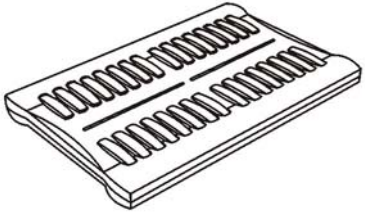
Part I. System Specifications

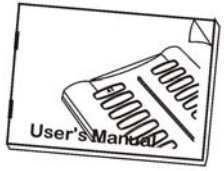
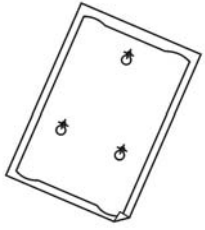
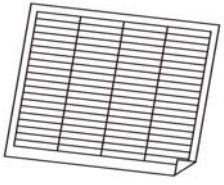
S1 Wireless Service Bell Main board (S1)	
Product Spec	Name: Wireless Service Bell Main board Receiver Model: S1 Dimension: 260(L) × 165(W) × 40(H) (mm) Weight: 495g Power Cable: 1.5M
Button	Service Button x 32 Units
LED Indicator	Receiving Indicator Power Indicator Message Indicator Table Indicator x 32 Units
Environment Requirements	AC100~240 Power Jack Operating Temp 0°C - 50°C (32°F - 122°F) Operating Humidity 10% - 90% without congealment
Electronic Characteristic	Operating Voltage: DC5V Operating Current: 200mA Standby < 30Ma Full Load < 35mA Startup Current: 600mA Speaker(Full duplex) Impedance: 8Ω±15% Max Output Power: 0.5W Distortion Rate: 5%MAX Max dB: 89 ±3dB Frequency Range: 50Hz ~10KHz
Packing Contents	Contents: Wireless Service Bell Receiver (S1) User's Manual S1 Table no. Logo

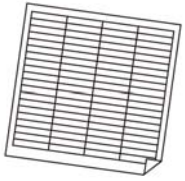
	Service Button Table no. Logo Main board Receiver Location Map Button Clamp Logo Clamp DC5V 1.5A Power Adaptor Pen for Logo Screwdriver Main board Fixed Screws
S1 Wireless Service Button (AB100)	
Product Spec	Name: Wireless Service Button Model: AB100 Dimension:60(L) ×45(W) × 23(H)(mm) Weight: 31g
Button	Service Button x 1 unit
Contents	Wireless Service Button (AB100)
Environment Requirements	Operating Temp 0°C - 50°C (32°F - 122°F) Operating Humidity 10% - 90% without congealment
Electronic Characteristic	Operating Voltage: 12V Battery Operating Current: Standby < 10mA Working status < 10mA
Packing Contents	DC12V Battery Screws
Multi Functional Service Button (AB400)	
Product Spec	Name: Multi Functional Service Button Model: AB400 Dimension: 60(H) ×45(W)× 23(H)(mm) Weight: 31g
Button	4 functional button
Environment Requirement	Operating Temp:0°C - 50°C (32°F - 122°F) Operating Humidity:10%- 90% without congealment
Electronic Characteristic	Operating Voltage: 12V Battery Current: Idle < 10mA Working< 10mA
Package Content	Multi-functional button

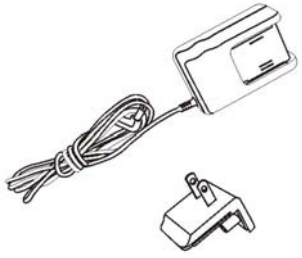
	Battery Screw

Part II. Packing and Accessories Instruction

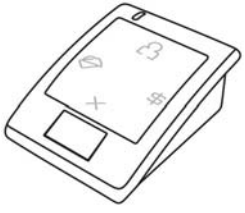
S1 Wireless Service Main board Receiver Packing Contents:	
S1 Main board Receiver	

User's Manual	
Main board Fixed illustration	
Main board Table No. Logo Paster	

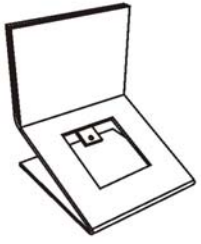
Service Button Table No. Logo Paster	
Service Button Clamp	
Logo Paster Tool	

DC5V 1.5A Power Adaptor	
Logo Pen	
Screwdriver	
Main board Fixed Screw Group X 3	

AB100 Service Bell Button Packing Contents:	
AB100 Service Bell Button	
DC12V Battery	
Screw	

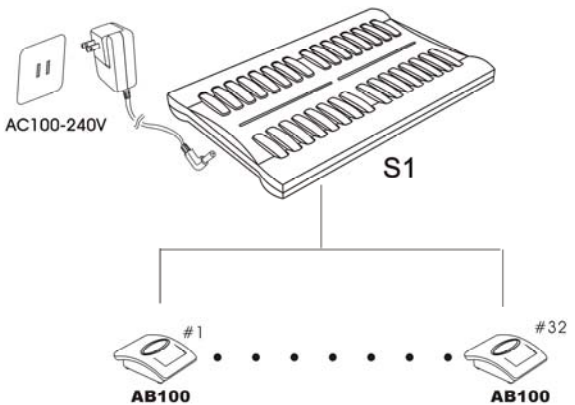
AB400 Multi-functional button：	
AB400 Multi-functional button	

DC12V Battery	
Screw	

AS100 Service Bell Button Stand Packing Contents:	
AS100 Plastic Stand	

Part III. System Connecting Diagram

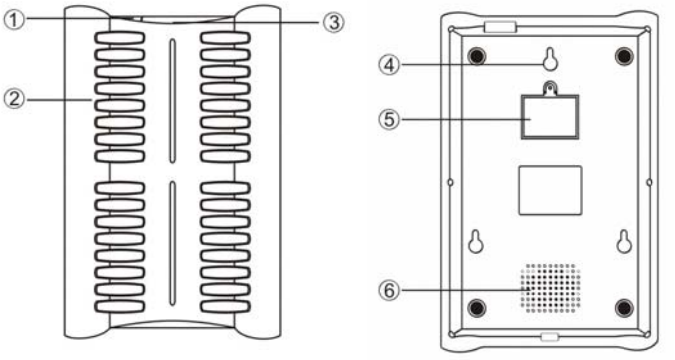
Wireless service bell provides real-time service for customers and can economize waiters so that can enhance whole appearance for the restaurant. Getting rid of landline designing way to use wireless method, it can be installed very quickly and can response receiving range around 50 meters, one wireless service bell main board receiver can be matched max 32 service buttons and support 4 kinds of prompt voice for selection.



Section 2 Main board Installation

Part I. Main board Overview

Please reading the manual first before using the wireless service bell.



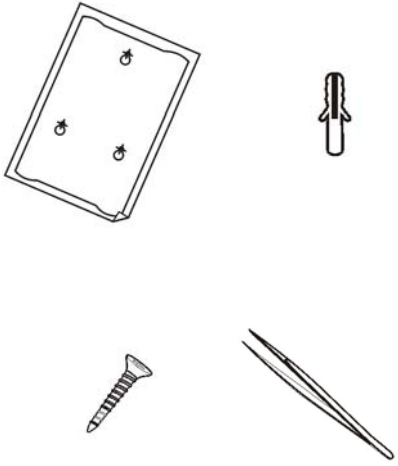
① Power Indicator
② Service Indicator and Clear Button
③ Message Indicator
④ Suspension Holder
⑤ Setting Switch
⑥ Speaker
⑦ DC Power Jack

Par

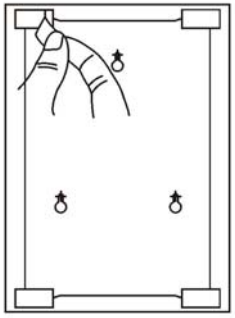
Cau er adapter for
Mai board and
select

corresponding screws, please take care of the casing while installing.

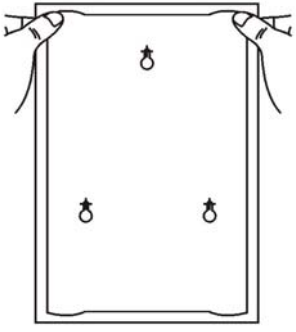
Accessories:



1. Take out main board fixed map and tear up back lamination.

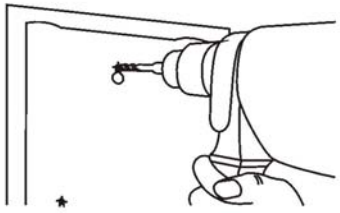


2. Stick main board map to place in which you want with horizontal level.

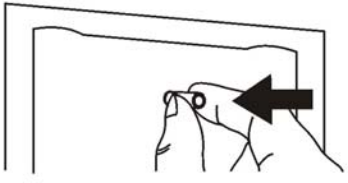


3. When installing to wall, please use 6Φmm tool to make holes, for more details please refer to picture

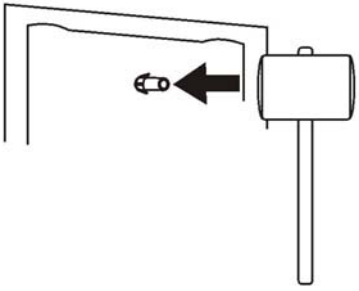
display hole.



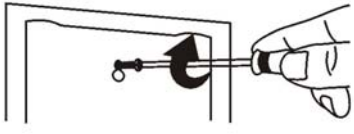
4. After making holes ok, please insert plastic cushion to hole.



5. You can use a tool to insert plastic cushion.

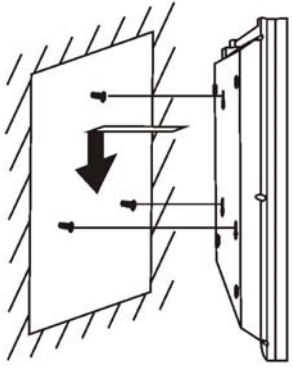


6. Take out screws and insert to the plastic cushion for fixing and leave 7mm outside.



7. Dismantle main board fixed map.

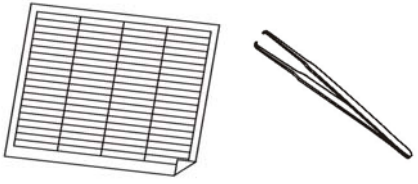
8. Fix main board to the wall according to its behind instruction.

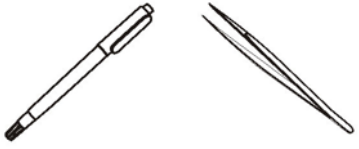


Part III. Labeling Table Number Logo on Main board

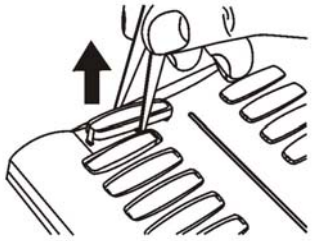
S1 wireless service bell attached with below accessories(if there need make a logo for special table can be made by pen on the blank paper).

Attached Accessories:

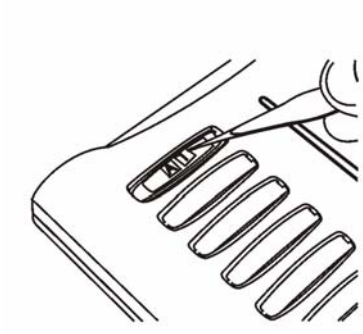




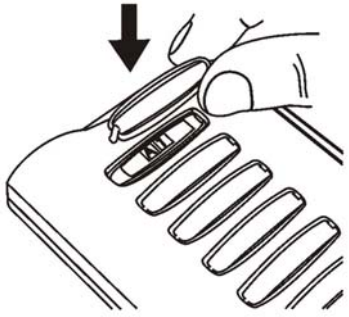
1. Take out tool for dismantling button according to picture indication to dismantle button.



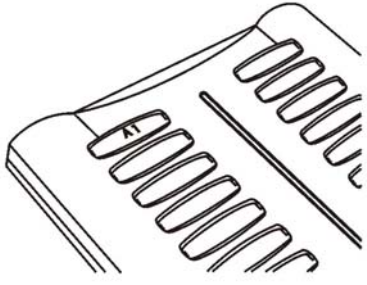
2. Take out table number logo(small font), then sticking to button location.



3. Then install button casing back on the main board.



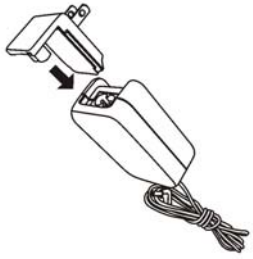
4. Then labeling Logo is finished on main board.



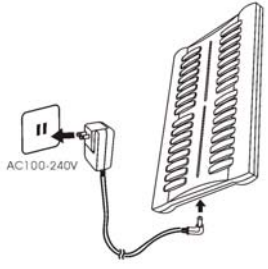
Part IV. Main board Power Adaptor Installation

Cautions: Please don't use other power adaptor to avoid working not properly.

1. Take out attached power adaptor (Input AC100-240V output DC5V)and connecting it like following diagram.

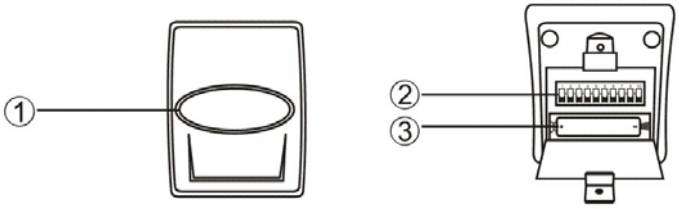


2. Please plug in power adaptor to wall power socket will light in a power Indicator. Then plug in another power adaptor terminal to S1 main board will light in a Indicator on main board.



Section 3 Service Button Installation

Part I. Service Button Overview Introduction



① Service Request Button

② Setting Switch

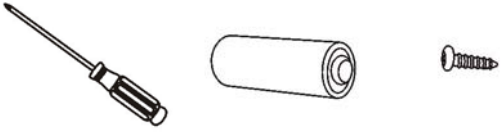
③ Battery Slot

Part II. Battery Installation

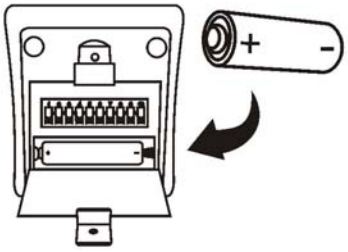
Cautions: Please using attached screw and screwdriver to install.

Please make sure battery direction(+/-) is right way.

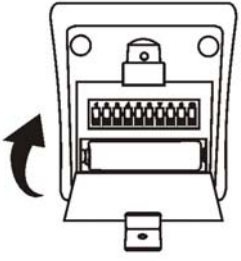
Accessories:



1. Take out attached battery(DC12V) and installing it according to its polarity.



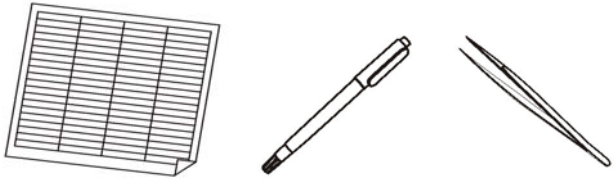
2. Close battery cover while installing ok.



3. Take out screwdriver to install screw to end procedure.

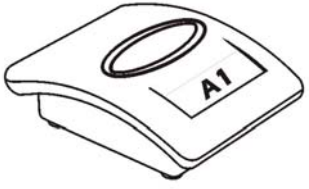
Part III. Labeling Table Number Logo on Service button

S1 wireless service button attached with logo paper (if need use for a special table number can be written by a pen on a blank paper).
Accessories:



1. Take out logo for table number (Font is more bigger) and install it according to the picture indication.

2. Then labeling Logo is ok as shown in below picture.

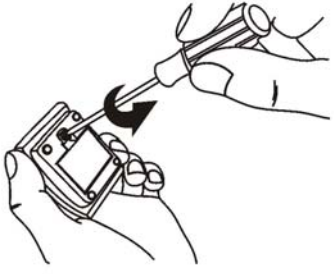


Part IV. Service Button Stand Installation

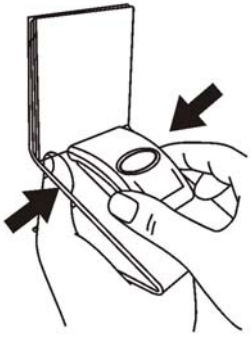
Cautions: Please using attached screw and screwdriver to install.

Accessories:

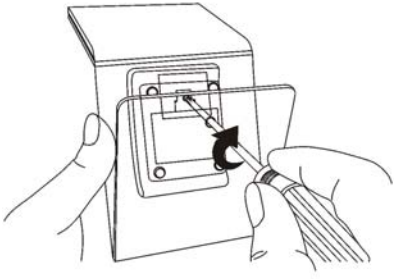
1. Take out screwdriver to dismantle screw on service button according to picture indication.



2. Install service button on plastic stand like below operating way.



3. Install screw to fix the button by screwdriver like below operating way.

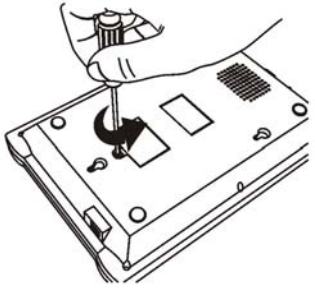


Section 4 Main board Configuration

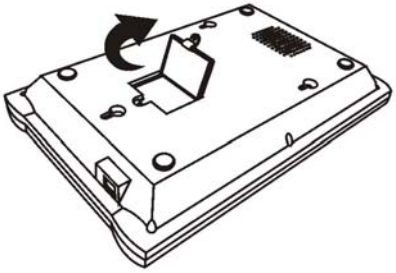
Cautions: Wireless service bell main board has 2 switches, one is normal DIP switch, another one is 3-status switch.

Accessories:

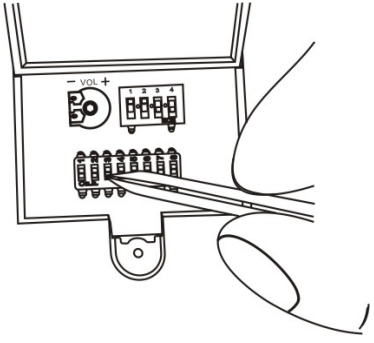
1. Take out screwdriver to dismantle screw on main board.



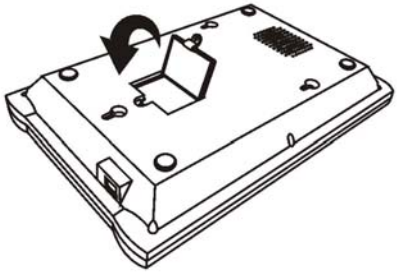
2. Open up switch cover on main board.



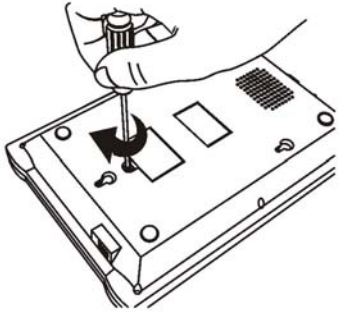
3. According to system configuration to set DIP switch by clamp.



4. After setting ok to close switch cover.



5. Then install screw by screwdriver to end procedure.



Part I. Main board Receiver DIP Switch Setting Introduction

1. Open up main board receiver will show 2 switches like following. One is normal DIP-2 switch, another one is three status DIP-3 switch and a twist switch for ring volume adjustment.
2. A switch is used for ring volume adjustment
3. B switch is normal DIP-2 switch
4. C 、D group switch are DIP-3 three status switch
5. Each switch functionality definition as follows:

   A Group: Used for ring volume adjustment

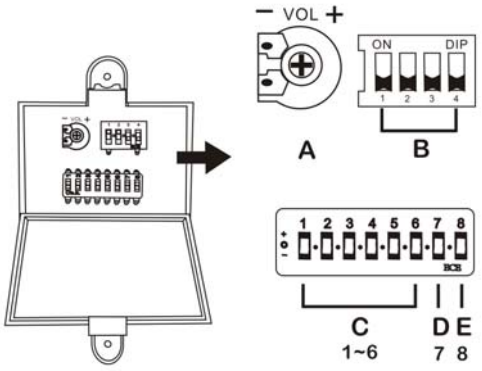
   B Group: Used for ring types selection

   C Group(1、2、3、4、5、6): Set system receiving range

   D Group(7): Button type

   E Group(8): Number of alert tone

   (Cautions: After changing C&D switch position need restart to plug power adaptor to validate settings)



Part II. Ring Volume Setting

A switch is used for ring volume adjustment.

When adjust to "—" position to turn down volume

When adjust to "＋" position to turn up volume

Part III. Ring Types Setting

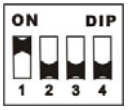
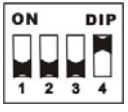
B group switch is used to set ring types

When 1to ON & 2、3、4 to OFF status: Ring type 1

When 2 to ON & 1、3、4 to OFF status: Ring type 2

When 3 to ON & 1、2、4 to OFF status: Ring type 3

When 4 to ON & 1、2、3 to OFF status: Ring type 4

Ring Type 1	Ring Type 2
	
Ring Type 3	**Ring Type4**
	

Part IV. Tie-in Key Model Setting

D group DIP-7 switch is used to Setting tie-in key mode

When 7 to "－" position:

The receiver will indicate RED light when the service button is pressed.

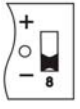
Part V. Ringing Times Setting

E group DIP-8 switch is used to set ringing times

When 8 to "＋" position: Ring 1 time

When 8 to "◦" position: Ring 3 times

When 8 to "—"position: Ringing continuously

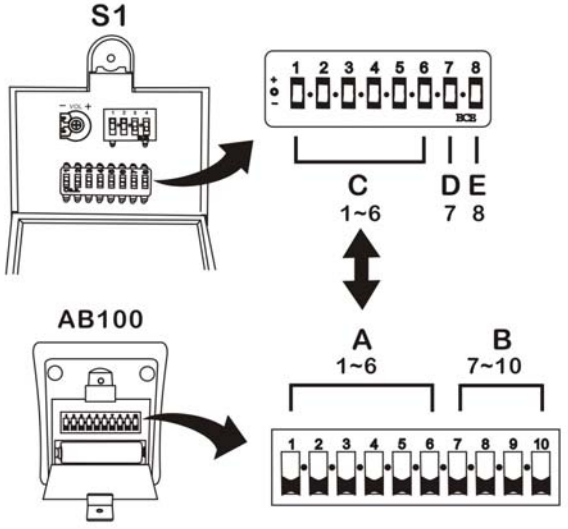
Ring 1 time	Ring 3 times
	
Ring Continuously	
	

Part VI. System Receiving Range Setting

Precautions:

Switch settings of each service button for response range must

be corresponded with main board receiver range settings to make sure system working properly. Its decoding way used 3^6 to avoid some address range conflict. However, address response range setting is up to yourself, you can set it in any way, but the address range must be the same between A group switch of service button(AB100) and C group switch of main board receiver (S1).



Part VII: Working with AB400

D Switch on "。":

A. Press [Service], S1 corresponded button turns RED

B. Press [Bill], S1 corresponded button turns YELLOW

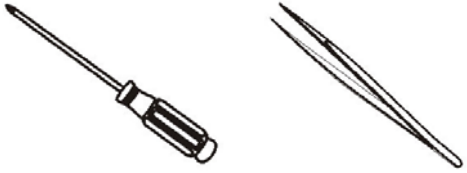
C. Press [Water], S1 corresponded button turns GREEN

D. Press [Cancel], S1 corresponded button light turns off.

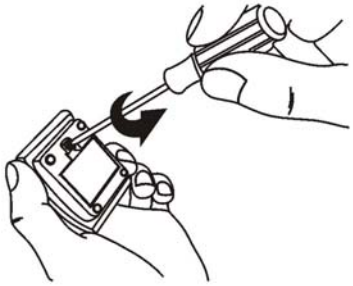
Section 5 Service Button Configuration

Cautions: Please note the DIP switch on service button is 3-status type.

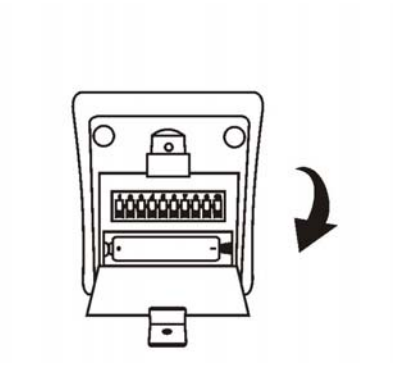
Accessories:



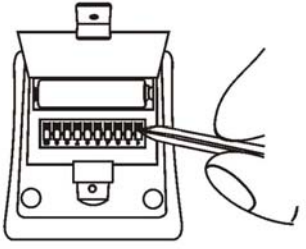
1. Dismantle screw on service button by screwdriver like following.



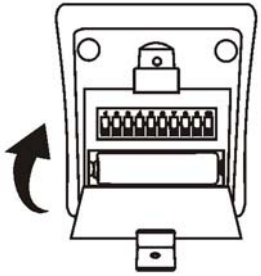
2. Open up battery cover.



3. According to corresponding setting on system to set address response range by clamp.



4. After setting ok to close battery cover.



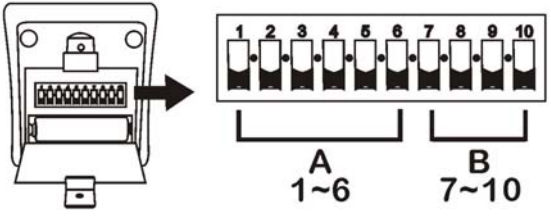
5. Then install screw back to end procedure.

Part I. Service Button DIP Switch Setting Instruction

1. Open up service button battery cover will show a 3-status DIP switch.
2. Each group function definition as follows:

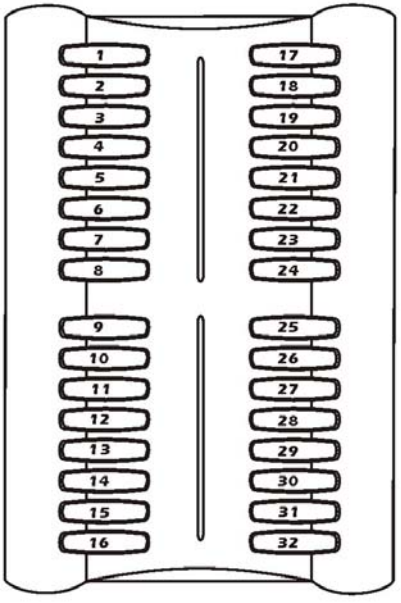
A Group switch (1,2,3,4,5,6): Set system response range

B Group switch (7,8,9,10): Set button serial no. for different table number



Part II. Service Button Table Number Setting

Wireless service bell can be installed max to 32 buttons while using, each service button has its own serial number to identify different table number, for more details please refer to below table:


1
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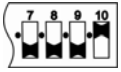
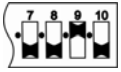
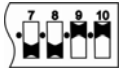
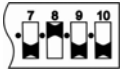
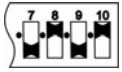
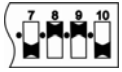
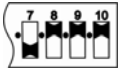
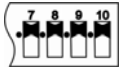
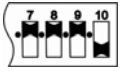
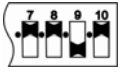
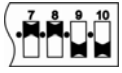
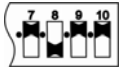
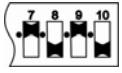
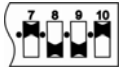
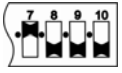
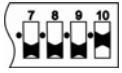
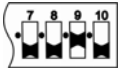
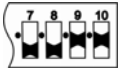
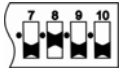
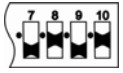
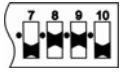
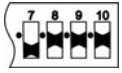
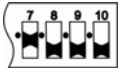
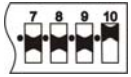
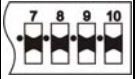
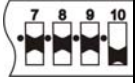
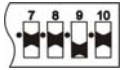
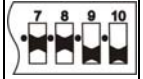
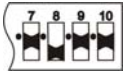
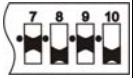
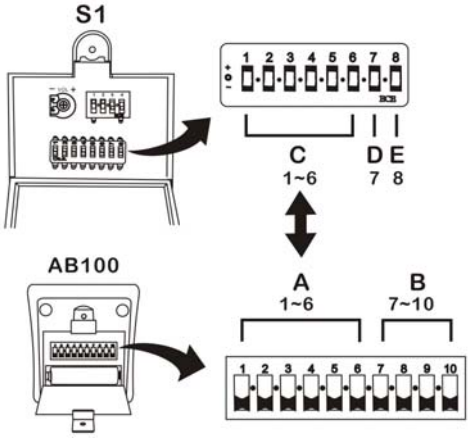
32

S1 Table Number	1	2	3	4	5	6	7	8
DIP SW 7、8、9、10								
S1 Table Number	9	10	11	12	13	14	15	16
DIP SW 7、8、9、10								
S1 Table Number	17	18	19	20	21	22	23	24
DIP SW 7、8、9、10								
S1 Table Number	25	26	27	28	29	30	31	32
DIP SW 7、8、9、10								

Part III. Service Button Transmitting Range Setting

Cautions: A group switch of each service button(AB100) must be same as D group switch on main board receiver(S1) to make sure response range is set ok.

Switch settings of each service button for response range must be corresponded with main board receiver range settings to make sure system working properly. Its decoding way used 3^6 to avoid some address range conflict. However, address response range setting is up to yourself, you can set it in any way, but the address range must be the same between A group switch of service button(AB100) and C group switch of main board receiver(S1).



Section 6 System Operating Instruction

Part I. Service Requirements

Each table installed one service button, once customers have requirements, they only need to press the service button, then the main board receiver will light in its corresponding LED indicator to show service is requested at that time.

AB100 Wireless Service Bell Button

Service Button	Main board Indicator Status		
Time	**0~15 sec**	**15~30 sec**	**After 30 sec**
Call Waiter	Constant Red	Slow flashing Red	Quick flashing Red

Part II. Canceling Service Method

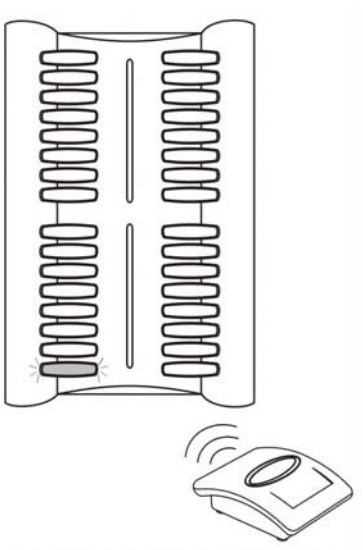
Waiter can cancel service if this customer has serviced ok, only need to press its corresponding button what table is service ok, then Led indicator will be off after canceling service. In addition, by virtue of various status of indicator, so the waiter can service by its prior sequence.

Section 7 Daily Usage and Maintenance

Part I. Daily Testing

The waiters are the appearance for the restaurant, service real-time is more important except for professional service. But sometimes in restaurant you will find no waiters beside you if you need service and sometimes maybe you will feel embarrassedly while talking with friends. Moreover, some restaurants decreased the number of waiters in order to economize cost, so in some urgent situation if the client can not get service real-time will come out complaint. Once the restaurants add more waiters will waste resources if there

have no more service. Due to these questions have caused many annoyance to restaurant filed. So ARTECH has designed S1 wireless bell in order to solve these questions. This product not only can economize expenses, but also can decrease wasting for waiter's assignment. S1 provides a comfortable environment without little waiters, it is really a reasonable and perfect product for service fields.



Daily testing is very important to maintain its functionality:

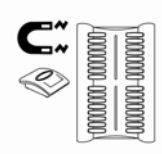
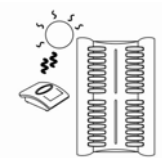
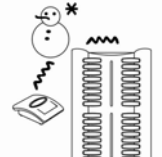
1. Overtime working caused damage. Check each
2. Because of low battery caused working non-properly.

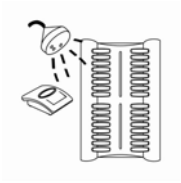
Testing Procedures:

1. Press each service button on different table in sequence;
2. Check each LED indicator whether it is lighted or not;
3. Press button on main board to check whether It can cancel service request;
4. Testing is over;

Cautions: During testing process, if you found LED indicator can not work properly while pressing the service button, please check the battery on service button whether it is installed ok or with low voltage to result in the problem, so you can change a new battery for using.

Part II. Usage Cautions

	1. Place product away from dusty or massed area. The dust often affects and result product shortness.
	2. Get away from any magnetic area (e.g. Speaker or TV) to prevent magnetic interference
	3. Do not place the product under the sunlight.
	4. Do not place the product under temperature of 0C or 30F; or over temperature of 50C or 122F. These temperatures will affect the switch and will not be able to operate normally.

	5. Prevent from getting liquid, water or under vapory environment.
	6. Turn off your product before you do cleaning. Clean without any liquidized oil or cleaner.
	7. Maintain the product under a dry environment. Any vapory or liquids will shorten the circuits inside switch.
	8. Do not open the switch at any circumstances. Unauthorized open or disassemble the product will occur failure of machine operation and your product's warranty will be terminated.
	● If you are experiencing the following situation(s), please TURN OFF the power and contact our Repair Center immediately: ● Impair of power cables ● Has liquid emerge Breakage of case due to accident dropping

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