

Wireless Calling Bell System User's Manual



Please thoroughly read this manual before you use this product.
Keep this manual well to use later on again.

XTM
Solution

XTM Solution



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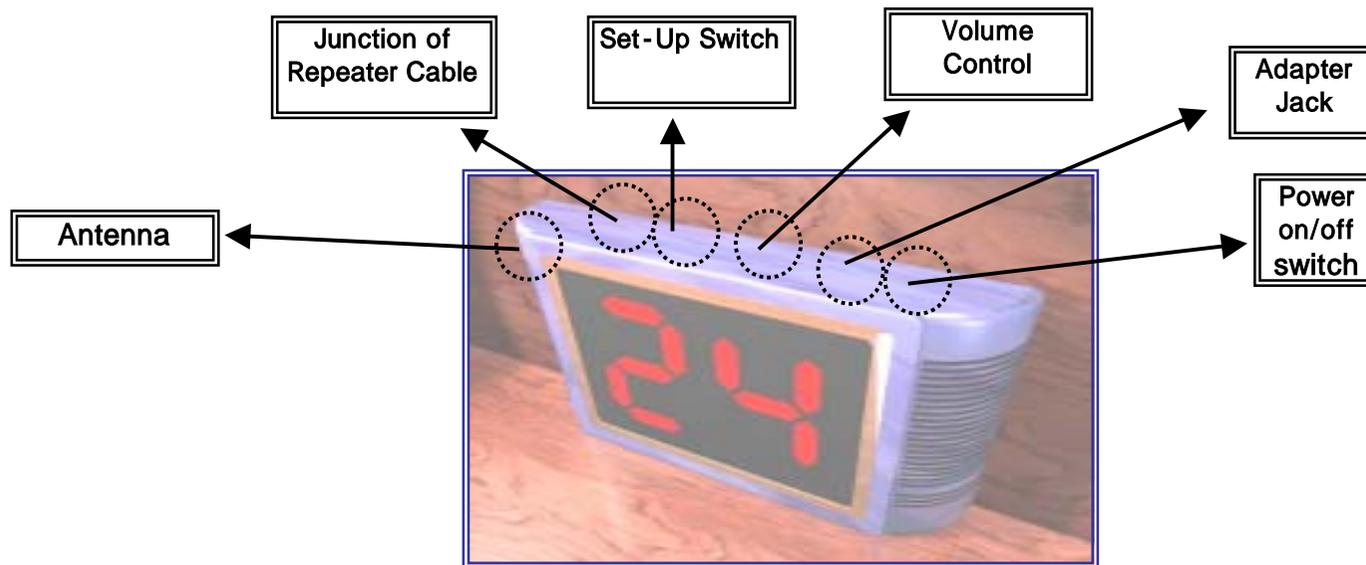
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1. Composition and part's name

(1) Receiver BBR-1012



(2) Transmitter BBT-100



2. Operation description

1) Receiver (BBR-1012)

If a user turns on the power, the product rings "dign dong dang dong, ding dong ding dong, dang dang dang", indicator is lit on FND, and it is placed on the reception standby mode, flickering per second. BBR-1012 does not blink. (This status indicates a good condition of the receiver). If there is a calling from transmitter, a correspondent number will show up in the electric display board. BBR-1012 models can see 12 numbers simultaneously. These indications move from left to right and reception of same signal is expressed in the electric display board up to three times. Until a user presses the reset button, the display will continue.

When controlling the received volume of sound, a user can control it through the speaker on top of the receiver.

The receiver's sw8 is the switch selecting basic received sounds (in the case of calling 0 to 99). But BBR-1012 models don't have the function. If you intend to change a basic received sound, you have only to select it by sw8 and get the power off/on.

A user can change the stand by time of the table number, which is indicated in the electronic board, as 4 format (5, 10, 15 and 20 seconds).

(With regard to the method of change, see how to adjust. Scm-2000 does not blink.)

2) Transmitter (BBT-100)

With regard to the table number and channel of the transmitter, see how to adjust a transmitter.

The transmitting distance is When there exists an obstacle, it can be reduced 30~40%.

In that case, you need to install repeater.

When you continue to press the call button of transmitter over two seconds, transmission will be automatically cut off, preventing battery from running out.

Scm-2000 models can work by external switch or magnetic sensor.

3. Installation Method

1) Receiver (BBR-1012)

There is no special restriction regarding the installation site of the receiver; however, the following places should be avoided:

Place where great spark and noise occurs.

Place where a mobile communication repeater which emitting strong electric wave is nearby

Place around a factory using high frequency vinyl adhesive machine

Place within 50cm of computer CPU or monitor, which emits electric wave.

Place around great magnetization power is formed (Speakers).

Place with high temperature and humid (interior of kitchen)

After checking power is off before supplying power of the receiver, a user should use the adaptor.

Install the receiver in a desired place on the wall using cement nails or various tools with 20cm distance.

A user should supply power by turning the volume to the counter-clock wise to its maximum before turning on the power.

(There can be a possibility that a speaker can be troubled, if power is supplied in the status of maximum received volume.)

When the fixing the receiver on the wall is completed, pull out the antenna on the left side of the main body and bend it 45 degrees forward.

Please install receiver and transmitter with being separated from each other over 1 meter.

Set receiver's channel and waiting time. (Channel No. 1 and 5 seconds of waiting time in delivery)

Set-up of BBR-1012: sw6 and 7 are the switches to select either cable or radio repeater. Set the associated switch.

2) Transmitter (BBT-100)

After adjusting the proper number of each receiver, both sided tape should be attached and the receiver should be installed on the table. In doing so, the calling lamp of the receiver should be installed in the direction that the receiver was installed.

The transmitter should be installed in the place where is more than 3m is away from the the receiver and the repeater installed places.

When installing the transmitter, the status (flickering speed and brightness of the lamp) of the calling lamp on the top part of the calling lamp should be checked.

In addition, BBT-100 sets up magnetic sensor or external switch.

4. Setup method (Selection switch)

(1) Setup of receiver

Select a channel to prevent jamming of receiver. (Should be the same as the transmitter)						Set waiting time of number called basic sound received				
	SW1	SW2	SW3	SW4	SW5	SW6	SW7	set up	SW8	set up
1	ON	ON	ON	ON	ON	OFF	OFF	Wait for 5 seconds	ON	Select receiver sound No.1
2	OFF	ON	ON	ON	ON	ON	OFF	Wait for 10 seconds	OFF	Select receiver sound No.2
3	ON	OFF	ON	ON	ON	OFF	ON	Wait for 15 seconds		
4	OFF	OFF	ON	ON	ON	ON	ON	Wait for 20 seconds		
5	ON	ON	OFF	ON	ON					
6	OFF	ON	OFF	ON	ON	Set sw6 and sw7 of SCM-2000				
7	ON	OFF	OFF	ON	ON	SW6	SW7	SET up		
8	OFF	OFF	OFF	ON	ON	ON	ON	In the case of common use of cable and radio repeater		
9	ON	ON	ON	OFF	ON	ON	OFF	In receiving with antenna of receiver		
10	OFF	ON	ON	OFF	ON	OFF	ON	In using cable repeater		
11	ON	OFF	ON	OFF	ON	The channels of the transmitter/receiver/repeater should be the same.				
12	OFF	OFF	ON	OFF	ON					
13	ON	ON	OFF	OFF	ON					
14	OFF	ON	OFF	OFF	ON					
15	ON	OFF	OFF	OFF	ON					
16	OFF	OFF	OFF	OFF	ON					
17	ON	ON	ON	ON	OFF					
18	OFF	ON	ON	ON	OFF					
19	ON	OFF	ON	ON	OFF					
20	OFF	OFF	ON	ON	OFF					
21	ON	ON	OFF	ON	OFF					
22	OFF	ON	OFF	ON	OFF					
23	ON	OFF	OFF	ON	OFF					
24	OFF	OFF	OFF	ON	OFF					
25	ON	ON	ON	OFF	OFF					
26	OFF	ON	ON	OFF	OFF					
27	ON	OFF	ON	OFF	OFF					
28	OFF	OFF	ON	OFF	OFF					
29	ON	ON	OFF	OFF	OFF					
30	OFF	ON	OFF	OFF	OFF					
31	ON	OFF	OFF	OFF	OFF					
32	OFF	OFF	OFF	OFF	OFF					

(2) Transmitter setup

Special number setup(basic sound received No.2)							
	SW1	SW2	SW3	SW4	SW5	SW6	SW7
P0	ON	ON	OFF	ON	ON	OFF	OFF
P1	OFF	ON	OFF	ON	ON	OFF	OFF
P2	ON	OFF	OFF	ON	ON	OFF	OFF
P3	OFF	OFF	OFF	ON	ON	OFF	OFF
P4	ON	ON	ON	OFF	ON	OFF	OFF
P5	OFF	ON	ON	OFF	ON	OFF	OFF
P6	ON	OFF	ON	OFF	ON	OFF	OFF
P7	OFF	OFF	ON	OFF	ON	OFF	OFF
P8	ON	ON	OFF	OFF	ON	OFF	OFF
P9	OFF	ON	OFF	OFF	ON	OFF	OFF
Special number setup(basic sound received No.2)							
	SW1	SW2	SW3	SW4	SW5	SW6	SW7
F0	ON	OFF	OFF	OFF	ON	OFF	OFF
F1	OFF	OFF	OFF	OFF	ON	OFF	OFF
F2	ON	ON	ON	ON	OFF	OFF	OFF
F3	OFF	ON	ON	ON	OFF	OFF	OFF
F4	ON	OFF	ON	ON	OFF	OFF	OFF
F5	OFF	OFF	ON	ON	OFF	OFF	OFF
F6	ON	ON	OFF	ON	OFF	OFF	OFF
F7	OFF	ON	OFF	ON	OFF	OFF	OFF
F8	ON	OFF	OFF	ON	OFF	OFF	OFF
F9	OFF	OFF	OFF	ON	OFF	OFF	OFF
Special number setup(basic sound received No.3)							
	SW1	SW2	SW3	SW4	SW5	SW6	SW7
E0(R0)	ON	ON	ON	OFF	OFF	OFF	OFF
E1(R1)	OFF	ON	ON	OFF	OFF	OFF	OFF
E2(R2)	ON	OFF	ON	OFF	OFF	OFF	OFF
E3(R3)	OFF	OFF	ON	OFF	OFF	OFF	OFF
E4(R4)	ON	ON	OFF	OFF	OFF	OFF	OFF
E5(R5)	OFF	ON	OFF	OFF	OFF	OFF	OFF
E6(R6)	ON	OFF	OFF	OFF	OFF	OFF	OFF
E6(R7)	OFF						

Set a channel to prevent jamming of transmitter.					
	SW1	SW2	SW3	SW4	SW5
1	ON	ON	ON	ON	ON
2	OFF	ON	ON	ON	ON
3	ON	OFF	ON	ON	ON
4	OFF	OFF	ON	ON	ON
5	ON	ON	OFF	ON	ON
6	OFF	ON	OFF	ON	ON
7	ON	OFF	OFF	ON	ON
8	OFF	OFF	OFF	ON	ON
9	ON	ON	ON	OFF	ON
10	OFF	ON	ON	OFF	ON
11	ON	OFF	ON	OFF	ON
12	OFF	OFF	ON	OFF	ON
13	ON	ON	OFF	OFF	ON
14	OFF	ON	OFF	OFF	ON
15	ON	OFF	OFF	OFF	ON
16	OFF	OFF	OFF	OFF	ON
17	ON	ON	ON	ON	OFF
18	OFF	ON	ON	ON	OFF
19	ON	OFF	ON	ON	OFF
20	OFF	OFF	ON	ON	OFF
21	ON	ON	OFF	ON	OFF
22	OFF	ON	OFF	ON	OFF
23	ON	OFF	OFF	ON	OFF
24	OFF	OFF	OFF	ON	OFF
25	ON	ON	ON	OFF	OFF
26	OFF	ON	ON	OFF	OFF
27	ON	OFF	ON	OFF	OFF
28	OFF	OFF	ON	OFF	OFF
29	ON	ON	OFF	OFF	OFF
30	OFF	ON	OFF	OFF	OFF
31	ON	OFF	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF

5. Failure detection and corrective actions

First, check power of the transmitter and receiver before requesting after sales service, and if there is no failure, turn the power off and on to check whether reception stand by status is possible.

Also, check the status of the transmitter and receiver. Especially, the status of press and appearance of the transmitter.

No	Failure and corrective action	Corrective action types of customers' after sales service inquiries
	No power supply	Most of after sales services arise from minor defects.
1	1) Check if power supply is properly connected to an outlet.	1. Replacement of a consumed battery.
	2) If there is no failure in 1), touch the adaptor with hands.	2. Channel change of a transmitter and a receiver
	3) Replace the adaptor, if you cannot feel weak heat. Specifications of the adaptor is 60Hz-DC12V/1000mA.	3. Replacement of an adaptor
	4) If there is no light on the electric display board, even though weak heat is felt, the electric display board is out of order => After sales service request	4. Replacement of the label of a transmitter.
		How to check the inside of transmitter
2	The number indication of the electric display board or number indication is strange.	1. Take out the rear plate by unscrewing the back of the transmitter.
	1) After turning off and on the power, if the same phenomenon occurs, there is some problem in the electric display board. => After sales request	2. Remove alien substances, generated from humidity inside circuit of the transmitter.
3	The number in the electric display board is not indicated, although the reception sound is heard.	3. Dry in the dry place.
	1) After turning off and on the power, if the same phenomenon occurs, there is some trouble in the electric display board. => After sales request	4. Be careful not to change the setup of the transmitter's channel and table No.
		How to check the outside of the transmitter
4	Although the electric display board operates, there is no reception sound.	1. Whenever pressing the push switch repeatedly, check if you can hear tick taCK.
	1) Adjust speaker volume. Turn off and on the power.	2. When you pushed the push switch, check the brightness and flickering speed of the calling lamp.
		3. Check if the label of the transmitter was stripped, torn down, or changed.
		How to check the receiver
5	No reception	1. When you turned off and on the power, check the sound and if the status becomes reception stand by mode.
	1) Check the status of lit of the transmitter's calling lamp, first.	2. Adjust the speaker volume.
	2) If the calling lamp is dim or slowly flickering, there is a trouble of a battery. Replace the battery (Alkaline DC 2V33MA)	
	3) Check if the channels of the receiver and transmitter are set up the same.	
	4) After turning off and on the power, if the same phenomenon occurs=> After sales service requestA/S	
6	Reception can or cannot be possible irregularly.	
	1) Check the calling lamp of the transmitter as 5.2).	
	2) If there is no trouble, even though 1) is repeated several times, replace the battery.	
7	Even though a call has not made, the receiver indicates the call.	A battery and adaptor are consumables, and you can easily obtain them.
	1) It is very rare. In the case that the channel setup is the same as other same products. Change the channel of the receiver and the transmitter (See No.4 to the Manual).	1. Dimension of battery: Alkaline DC12V33MA
		2. Dimension of adaptor: 60Hz-DC12V/1000mA
		For further details, please visit our homepage.

6. Product specifications

Receiver specifications

	Classification	Standard
1	Consuming power	0.8W, Maximum 5W
2	Input voltage (adaptor)	AC220V/60Hz-DC12V/1000mA
3	Maximum reception sensitivity	20 dB uV/M
4	Receiving frequency	345MHz
5	Maximum memory	5 table numbers
6	No. of table No. indication	0~99/Special No. P0~P9/Room No.:E0~E9/Kitchen No.:F0~F7 (Receiving a total of 128 numbers)
7	No. of mixed signal	32 channels
8	Weight	600g
9	Dimensions	W270 *L150*H50(mm)

Transmitter specifications

	Classification	Standard
1	Power supply	Alkaline Battery 12V 33mA
2	Transmission output	75 dB uV/m
3	Transmission frequency	345MHz(ASK)
4	Deviation of transmission frequency	0.5MHz
5	Weight	50g
6	Dimensions	W60 *L60*25(mm)

7. Quality assurance and after sales service

This product is made under the strict quality control and inspection process.

The company repairs the defects in performance and function arising from the normal status, and when the repair is impossible, we replace the defected product with a normal one.

1. The user should pay in the following cases for repair, since warranty conditions are not met.

Failures arising from consumers' deliberation or faults.

Failures arising from repair or change of the product by non-after sales servicemen or non-servicemen of our company.

When the life span of the parts expired.

Failures or defects arising from natural disasters

2. When you need our service, please consult with your nearest after sales service center or agent (Installation agent).

3. The repair trip expense should be paid by the user, when our after sales serviceman visited your site, even though your product is under warranty period.

(<http://www.xtm.co.kr>)

Failure detection and corresponding methods for Wireless Calling Bell System

Sing Call has been released on the market in consideration of the core problems of the existing after sales service from design stage.

If you try to detect any failures with the following methods before inquiring the after sales service center, you can see faster effects.

<How to check transmitter>

Although pushing the push switch of the transmitter, numbers are not indicated on the receiver.

How to check

Check if the transmitting lamp flickers after pressing the push switch of the transmitter for about 5 seconds.

When the push switch is repeatedly pushed, check if the transmitting lamp is lit, everytime you push it.

There is some failure, if the lamp is not lit or the lit speed is slow.

failure 1	Some failure in the push switch. Request after sales service to the installation agent.
failure 2	The inside battery has been expired. Request after sales service to the installation agent.
* Caution*	The inside battery with the same specification can be easily purchased..
When the phenomenon occurs in a specific transmitter, the concerned transmitter has some failure. Request after sales service to the installation agent.	
When the phenomenon occurs in the entire transmitters installed, there is some failure in the receiver. See How to check receiver.	

The different number from the designated one in the transmitter is indicated in the receiver designated number.

How to check

There are some failures in the setup of the number designation selection switch of the transmitter.

The setup of the above-mentioned switch should be re-set up, seeing the user's manual.

If the same phenomenon occurs, there is a failure

failure 1	The number selection switch has some failure. Request after sales service to the installation agent.
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<How to check receiver>

Although pushing the push switch of the transmitter, numbers are not indicated on the receiver.

How to check

Check if the phenomenon occurs in a specific transmitter, or in the entire transmitters installed.

When the phenomenon occurs in a specific transmitter, the concerned transmitter has some failure.

When the phenomenon occurs in the entire transmitters installed, there is some failure in the receiver.

failure 1

There is some failure in the receiving part of the receiver. Request after sales service to the installation agent.

The entire numbers of the entire transmitters installed are not indicated on the receiver.

How to check

In this case, there is some failure in the setup of the selection switch of reception channel designation of the receiver.

Re-set up the above-mentioned switch, seeing the user's manual.

If the same phenomenon occurs, there is some failure.

failure 1

The selection switch of receiving channel has some failure. Request after sales service to the installation agent.

Number indication FND of the receiver is not lit.

How to check

In this case, there is some failure in FND of the receiver, or power connection can be a problem.

Check the status of connection of adaptor of the receiver and turn off and on the power, then check if FND is lit.

If the same phenomenon occurs, there is some failure.

failure 1

The FND of the receiver has some failure. Request after sales service to the installation agent.

failure 2

There is some failure in adaptor's connection or adaptor. Request after sales service to the installation agent.

Number indication FND of the receiver is lit, but receiving sound is not heard.

How to check	
In this case, inferior connection of the sound adjusting part of the receiver, due to alien subjects, can be the cause.	
Turn the receiving sound volume adjusting part (volume controller) to left to right or vice versa several times.	
After turn off and on the power switch of the receiver, check if the 3 types of receiving sounds are heard.	
If the same phenomenon occurs, there is some failure.	
Failure 1	There is a failure in the volume controller. Request after sales service to the installation agent.
Failure 2	There is a failure in the speaker. Request after sales service to the installation agent.

No power supply to the receiver	
How to check	
Check the connection between the receiver and adaptor. Also, check if wire of the adaptor and outlet has been properly connected.	
After turn off and on the power switch of the receiver, check FND and if the 3 types of receiving sounds are heard.	
If the same phenomenon occurs, there is some failure.	
Failure 1	Adaptor has some failure Request after sales service to the installation agent.
* Caution *	The adaptor with the same specifications can be easily purchased.

<Method to check with status of receiver>

If power is supplied to the receiver, reception standby status is on. This status is normal for operation preparation.	
If power is supplied, 88 is indicated in FND and 3 types of receiving sounds, such as "ding dong dang dong, ding dong ding dong, dang dang dang dang in sequence. After that, the indication in FND indicates the flickering repeatedly per second, then it is reception standby status, which implies there is no failure in the receiver.	

[If you have other failures, see the user's manual or contact the installation agent for prompt help.](#)