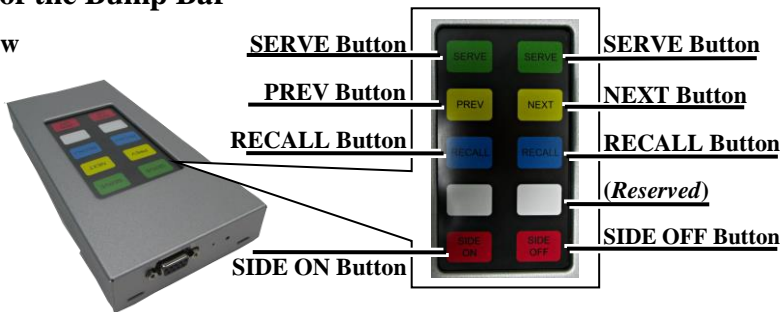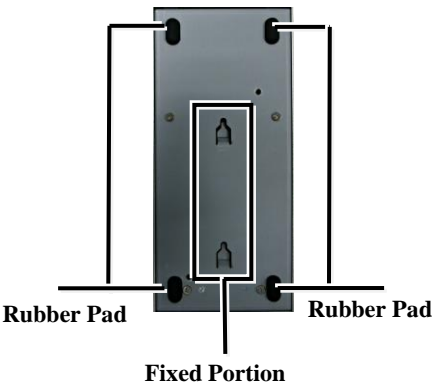**BB-3000/3100**
Bump Bar
User Manual

Package Contents
- ✓ BB-3000/3100 Bump Bar (x 1)
- ✓ 2m-Long Dedicated RS-232 Cable (x 1)
- ✓ User Manual (x 1)

Views of the Bump Bar

Top View

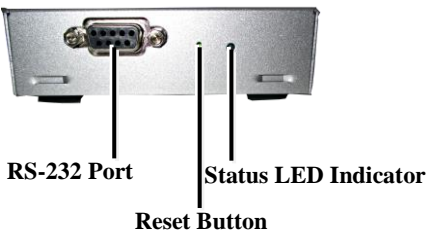SERVE Button   SERVE Button
PREV Button   NEXT Button
RECALL Button   RECALL Button
(*Reserved*)
SIDE OFF Button
SIDE ON Button

Bottom View

Front View

RS-232 Port   Status LED Indicator
Reset Button

Rubber Pad   Rubber Pad

Fixed Portion

Enabling the BB-3000/3100

Power that enables the BB-3000/3100 to work is supplied by your host terminal. To make your host terminal supply power to the BB-3000/3100, you need only a dedicated RS-232 cable instead of a power adaptor. Thus, simply follow two steps made below to power on the BB-3000/3100.

1. Connect the RS-232 COM port of the BB-3000/3100 to a specified COM port of your host terminal through a dedicated RS-232 cable.
2. By using your dedicated application, select the specified COM port and a baud rate.
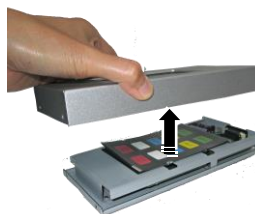3. Enable the COM port you selected.

Jumper Setting for a Baud Rate

To set a baud rate, please adjust the dip switch on the main board of the device. Refer to the following steps to locate the dip switch on the main board.

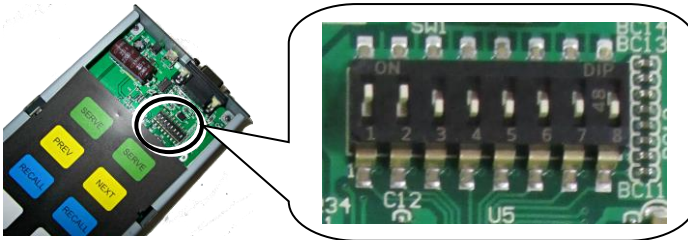1. Loosen and remove the two screws from the top cover of BB-3000/3100.

2. Remove the top cover.

3. You can easily find the dip switch on the main board.

Functions of DIP Switch

DIP SWITCH (Pin No.)	Functions
Pin 1	Baud rate settings Pin 1/Pin 2 : OFF/OFF => 1200 bps
Pin 2	Pin 1/Pin 2 : OFF/ON => 2400 bps Pin 1/Pin 2 : ON/OFF => 4800 bps Pin 1/Pin 2 : ON/ON => 9600 bps (Default)

Pin 3	Code page change
	➢ Code page 1
	   Pin 3 : OFF / Pin 4 : OFF / Pin 5 : OFF / Pin 6 : OFF
	   SW1 : E2h / SW6 : E1h
	   SW2 : D2h / SW7 : D1h
	   SW3 : B2h / SW8 : B1h
	   SW4 : A2h / SW9 : A1h
	   SW5 : C2h / SW10 :C1h

Pin 4	➢ Code page 2
	   Pin 3 : ON / Pin 4 : OFF / Pin 5 : ON / Pin 6 : OFF
	   SW1 : 62h / SW6 : 61h
	   SW2 : 52h / SW7 : 51h
	   SW3 : 32h / SW8 : 31h
	   SW4 : A2h / SW9 : A1h
	   SW5 : C2h / SW10 :C1h

Pin 5	➢ Code page 3
	   Pin 3 : ON / Pin 4 : ON / Pin 5 : ON / Pin 6 : ON
	   SW1 : E2h / SW6 : E1h
	   SW2 : D2h / SW7 : D1h

Pin 6	SW3 : B2h / SW8 : B1h
	   SW4 : 22h / SW9 : 21h
	   SW5 : 42h / SW10 :41h

DIP SWITCH (Pin No.)	Functions

Pin 7	Enabling or disabling DIP switch
	➢ Pin 7 : OFF / Pin 8 : OFF
	  Enabling SW1 ~ SW10
	
	➢ Pin 7 : OFF / Pin 8 : ON
	  Enabling SW1, SW2, SW5~SW7, and SW10

Pin 8	➢ Pin 7 : ON / Pin 8 : OFF Enabling SW3~SW5 and SW8~SW10

Regular Cleaning

For regular cleaning of the bump bar, please use only adequate amount of mild kitchen cleaning detergent for obstinate stains and wipe it off with dry clean soft clothes. Don't allow any liquid to seep in through any seam in the metal enclosure. It could also be a brilliant idea to seal the whole bump bar with thin transparent wrap foil and replace the foil regularly.

Specifications

Buttons	10-key buttons (8 buttons for SERVE/PREV/RECALL/SIDE ON/SERVE/NEXT/RECALL/SIDE OFF; 2 buttons for reserved buttons)
I/O Port	RS-232 COM port
DIP Switch	8-segment dip switch
Temp & Humidity	Operation temp.: -25 to +70 ℃ / storage temp.: -30 to +80℃ Humidity: 10 to 90 %; 5 to 90 % (operation condition)

※*The product information and specifications are subject to change without prior notice.*