

BB-2000 Series BUMP BAR USER'S MANUAL

Rev. : Original



I. FEATURES

- PS/2 KB interface
- Spill proof and suitable for kitchen application with KV-2000
- 17 programmable keys with 1 big single key plus 4 x 4 matrix keys
- Preprinted keys: big single key -- 1; matrix keys -- 1, 2, 3, 4, 5, 6, 7, 8, 4 Screen, 8 Screen, Split Screen, Park/Status, Summary, Preview, Recall, Restore

FCC NOTICE

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with limits for a Class A digital device pursuant to subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures to correct the interference.

WARRANTY LIMITS

Warranty will terminate automatically when the equipment is opened by any person other than the authorized technicians. The user should consult his/her dealer for the problem happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

The hardware utility program, including instructions for its use, is provided "AS IS" without warranty of any kind. Posiflex Inc. further disclaims all implied warranties including without limitation any implied warranties of merchantability or of fitness for a particular purpose. The entire risk arising out of the use or performance of the software and documentation remains with you.

ABOUT THIS MANUAL

This manual is written in an attempt with full strength to assist the user to utilize the bump bar for the Posiflex kitchen systems. This series of products can be used in kitchen management system, kiosk and hospitality operation. This manual covers the conceptual and operational aspects of this product series. For technical aspects involving opening of the unit or option implementation, it is only available to the authorized distributors.

The manufacturer of the BB-2000 series heartily apologizes to the user for reserving the right to change or to modify this manual without notice due to the rapid and constant progress and improvement on science and technology. The user may always obtain the most up to date information through any of our web sites: <http://www.posiflex.com> or <http://www.posiflex.com.tw>.

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II. INSTALLATION

1. DESKTOP MOUNT & GENERAL

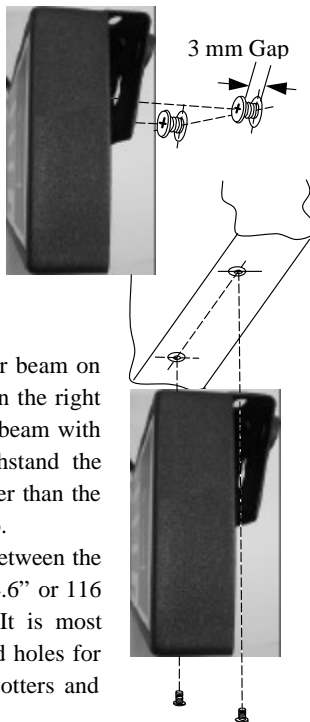
Place the bump bar on a sturdy, level surface.

Choose a place that is well ventilated and free of excessive dust, smoke or fume. Do not place the bump bar under direct sunshine or near a heater.

2. WALL MOUNT

Select a wall that is strong enough to withstand the drilling and screwing operation for wall hanging and the daily operation of the bump bar. Please consult your contractor if it is necessary. Drill 2 holes with hole-diameter of 1/4" or 6.35 mm each at same height at a horizontal distance of 3" or 76 mm center to center. Hole depth should be at least 1 and 3/8" or 35 mm.

Please then insert one plastic cotter of the wall mount kit into each hole leaving the flat end with hole of the plastic cotter at the outside opening of the hole. Use a hammer to tap the plastic cotter in gently if necessary. Please then fix the 2 wall mount screws into the plastic cotter leaving a neck of height about 1/8" or 3 mm for hanging the bump bar as in the picture at right.



3. RACK MOUNT

The bump bar can also be fixed to a rack or beam on the other direction to the bump bar as implied in the right picture. However, please double check that the beam with its screw holes must be rigid enough to withstand the extraction force on the screw that is much greater than the case encountered in wall mount hanging scenario.

In the rack mount application, the distance between the screw holes can be slightly adjustable between 4.6" or 116 mm and 4.75" or 121 mm center to center. It is most recommended to use machine thread screws and holes for best holding. It is also possible to use same cotters and

screws for this purpose if there is sufficient support for the bump bar against the key press force.

4. PROGRAMMING

The bump bar is default to be programmed with appropriate data (1; 1; 2; 3; 4; 5; 6; 7; 8; -; 9; 0; +; !; " ; \; ENTER) for the application of the preprinted keys. Should the application program requires a different definition, the system integrator must preprogram content of each key according to whatever required in the application software before delivery. It is of no concern to the end user.

III. MAINTENANCE

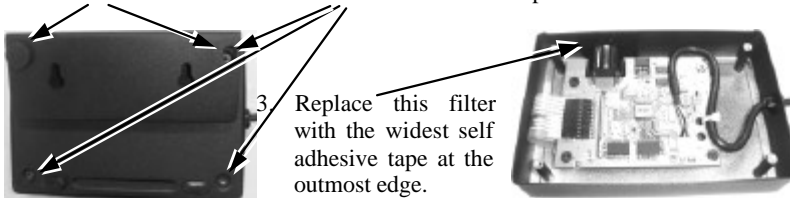
1. REGULAR CLEANING

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.

2. FILTER REPLACEMENT

When the volume of the built-in buzzer for response to key press diminishes significantly, please replace the buzzer filter as pictures below.

1. Remove the rubber feet
2. Remove 4 screws to open the metal case.



IV. SPECIFICATIONS

CONSTRUCTION:

100% true spill-proof structure, state of the art top notch solid design, 17 programmable keys with 4 x 4 matrix + 1 large key structure



KEY SWITCH TYPE:	Membrane switch for one big key and membrane switches with metal dome for 4 x 4 keys
METAL DOME TRAVEL:	0.65 mm
KEY SIZE:	11 x 11 mm (4 x 4 keys), 75.83 X 54.67 mm (Big Single Key)
PREPRINTED KEYS:	Big Single Key: 1 and 4 x 4 keys as: 1; 2; 3; 4; 5; 6; 7; 8; 4 Screen; 8 Screen; Split Screen; Park/Status; Summary; Preview; Recall; Restore
MAXIMUM VARIATION:	24 keys
PROGRAMMABILITY:	
• METHOD:	Software programming under DOS or Windows
• COVERAGE:	All 17 keys
• CONTENTS LENGTH:	1 - 255 byte(s)/key
• MEMORY:	Non-volatile memory 8KB
POWER CONSUMPTION:	
• Voltage:	5VDC±10%
• Current:	100 mA max.
MECHANICAL:	
• Dimensions:	150 mm x 100 mm x 51 mm (5.9") x (3.9") x (2.0") (W x D x H)
ENVIRONMENTAL:	
• Operating temperature:	0°C to + 50°C
• Storage temperature:	-20°C to + 70°C
• Relative humidity:	90%, non-condensing
• Vibration:	4G
• Shock:	40G
RELIABILITY INFORMATION:	
• Push key switch:	1,000,000 to 3,000,000 strokes min.
• Memory:	100 years min.
APPLICABLE CONFORMITY:	
CE, FCC CLASS A	