POSIFLEX

SD-800
UPGRADE KIT
USER'S MANUAL
Rev. : Original

I.   FEATURES

- Upgrade kit for fan free touch terminals KS series
- Magnetic Stripe Reader in USB full speed HID interface
- Options for MSR heads covering ISO 1&2, all 3 tracks or JIS I/II
- 3 tracks type MSR can read also AAMVA and CA DMV card
- Build-in RFID Reader in USB interface.
- RFID Function provides more security for data contained in tags than on bar code labels.
- RFID Reader supports ISO/IEC 14443A/B Reader/Writer mode up to 848kbit/s.

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 Technology, 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 upgrade kit SD-800 for the Posiflex fan free touch terminals KS series systems. This series of products incorporate 2 delicately designed POS peripherals each can be used as an excellent tool to accommodate the required security specially involved in POS business, kiosk and hospitality operation. This manual covers the conceptual and operational aspects of these units. For technical aspects involving opening of the unit or option implementation, it is only available to the authorized distributors.

The manufacturer of the SD-800 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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POSIFLEX ⊖ **T31454**
警告使用者
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

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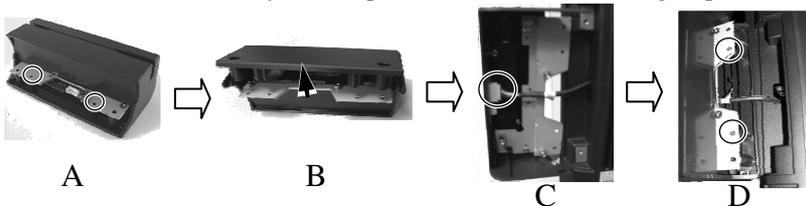
II.   INSTALLATION

HARDWARE INSTALLATION

Remove the 2 screws which on back of the right side of main unit as circled in the left picture to remove the cover for side mount upgrade-kit. Take out the cable inside this cover and connect it to the white connector which is inside the upgrade-kit as arrowed in the right picture. Gently arrange the excessive length of this cable and screw-fit the SD-800 back to the position which occupied by the cover originally. Please reserve the cover if there is chance to have the side mount kit removed in the future.

If the ordered SD-800 is RFID only model, please refer to the following steps:

A   B   C   D

(**A**).Please unfastens the screws which fix the bottom cover.
(**B**) Open the plastic bottom cover as arrowed direction in the picture B and separate it from the SD main unit.
(**C**) Please connect the cable from terminal to the white connecter which in the RFID Board.
(**D**) Fix the screws which unfasten in the step 1.

After finish these steps, please fix the SD-800 which in the occupied by the cover originally on back of the right side of main unit.

For optional Wi-Fi module, it will come separately with SD-800. Please follow procedures from **A** to **D** to install the SD-800 installation.

(**A**) Please unfastens the screws which fix the bottom cover.
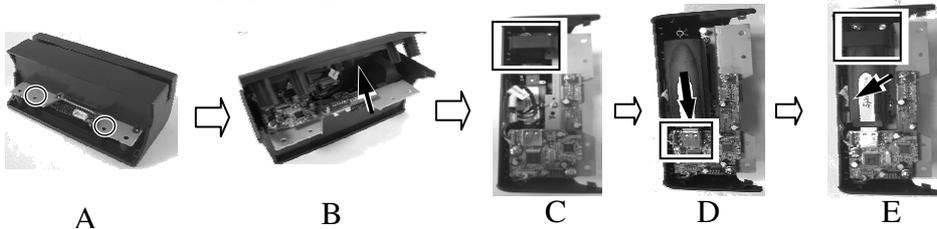
(**B**) Open the plastic bottom cover as arrowed direction in the picture B and separate it from the main unit.

(**C**) Please unfastens the rubber block which squared in the picture C.

(**D**) Insert the USB Wi-Fi module into the internal USB port.

(**E**) Put the rubber block back and fasten the screw as picture E.

After finished these steps, please put the bottom cover back and fasten the screws.

A   B   C   D   E

DRIVER INSTALLATION

1. **For MSR:** The magnetic stripe reader in SD-800 connects to the host through the proprietary internal USB connecter working as a USB KB and therefore requires no driver installation. For application in OS other than Windows (such as MS-DOS or Linux), some technical internal modifications will be required and it is most advised to specify such conditions clearly when ordering the SD-800. For application in MS-DOS, please enable the USB keyboard and set USB operation mode to Full/Low Speed in system CMOS setup. Refer to "Operation Guide" for manipulation over the reader configuration.

2. **For RFID Reader:** Posiflex delivers this SD-800 with its drivers. Please find the driver's INF file in the CD or DVD which delivered with SD-800. Additionally, please notice that SD-800's RFID reader is not support the applications in OS other than Windows (such as MS-DOS or Linux).

III. OPERATION GUIDE

MAGNETIC STRIPE READER

For magnetic stripe card reading, be sure to insert the card to the bottom with magnetic stripe facing the mark aside the slot. The movement of the card can be either inserting the card from the top to down out or sliding the card upward from the lower side to the top end as long as the card is a standard one.

The MSR in SD-800 reads an ISO or JIS magnetic stripe card without driver. Yet, there is a "Posiflex USB MSR Manager" program provided to control some parameter configuration for ISO MSR. The features controllable in this program cover: each track enable/disable, Alt+Num approach for ASCII codes and Leading/Stop code enable/disable. The function for enabling each track of course comes in effect only when the track is physically available. Please find in the Product Information CD or DVD delivered with KS system the folder "\Drivers\SD_Series\USBMSR_xxx" and "SetUp" this manager program or download the installation program from our web http://www.posiflex.com or http://www.posiflex.com.tw.

RFID Reader

The RFID reader is a radio-enabled device that communicates with a tag and with the host system. In order to communicate with each other, the reader and the tag must be set at same frequency and the tag must be within the reader's RF range as circled in the right picture. Various tags are available for use in different applications and environments as well as can add data to the tag or the existing tag data can modify.

Combinations of SD-800

There are few combinations of SD-800 for customer to choose:

1. MSR, Wi-Fi and RFID.
2. MSR and Wi-Fi.
3. MSR.
4. MSR and RFID.
5. RFID only for KS series except KS-61/63 series, KS-6812 and KS-2010.

For more information about options of SD-800, please go to www.posiflex.com or contact your local dealer.

Federal Communication Commission Interference Statement

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 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

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.