KS – 7715/7717/7515/7517
Fan Free Touch Terminal
User's Manual

Rev.: B0

POSIFLEX

KS-7715/7717   KS-7515/7517

FCC Notes:

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 terminates automatically when any person other than the authorized technicians opens the machine. 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.

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ALERT TO OUR HONORABLE CUSTOMERS:

- Please always read thoroughly all the instructions and documents delivered with the product before you do anything about it. Don't take any premature action before you have a full understanding of the consequences.
- This product contains inside a Lithium battery. Please always follow local environmental protection laws / regulations for disposal of used batteries and always replace only with battery of same type.
- If you have an UPS battery installed in the product:
  - ✧ Temperature above **40°C must be strictly avoided** as it could cause termination of battery life and unexpected result even if the battery is not in work.
  - ✧ **Do not** power off the system just by shutting off the AC power leaving the battery supporting the whole system till completely exhausted. **Repeatedly using it up or improper maintenance reduces the battery life dramatically**.
  - ✧ Always fully recharge the UPS battery at least once every 3 months if the battery is not connected.
  - ✧ Always **disconnect the UPS battery** from the system if the system is to be left OFF for more than **72 hours** to prevent possible damage. Only connect the UPS battery back right before you are going to re-power on the system.
  - ✧ Replace the UPS battery as soon as the monitoring software indicates the battery is out of service. Attempt to recharge a dead battery is **dangerous**!
  - ✧ A separate battery monitor is not required for this series.

DAILY MAINTENANCE GUIDE

For regular cleaning of the KS systems, please use only soft haired brush or dry soft cloth. You may use moist soft cloth to remove stains when necessary. Apply only proper amount of mild neutral detergent for obstinate stains. Please note that never use Acryl dissolving solvent or Polycarbonate dissolving solvent. You may apply ammonia-based glass cleaner only on the screen surface.
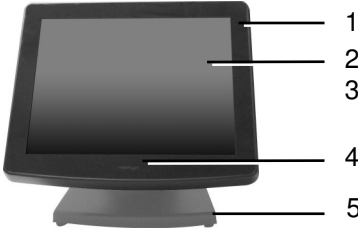
CAUTION
Risk of Explosion If Battery Is Replaced By An Incorrect Type
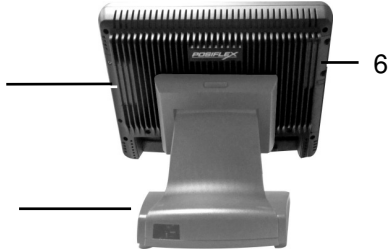**Dispose Of Used Batteries According To Local Regulations**
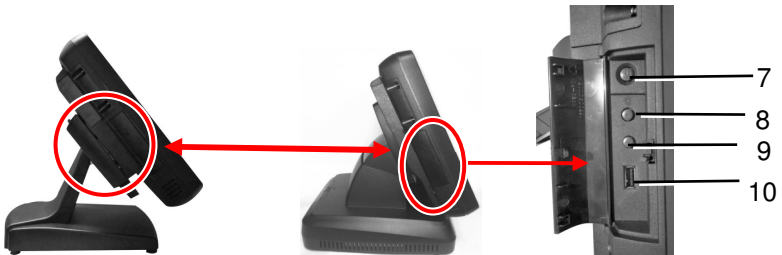
INTRODUCTION

Main Unit

KS-7515/7517 Front

KS-7515/7517 Rear

1
2
3

6

4

5

Left

KS-7715/7717 Front

KS-7715/7717 Rear
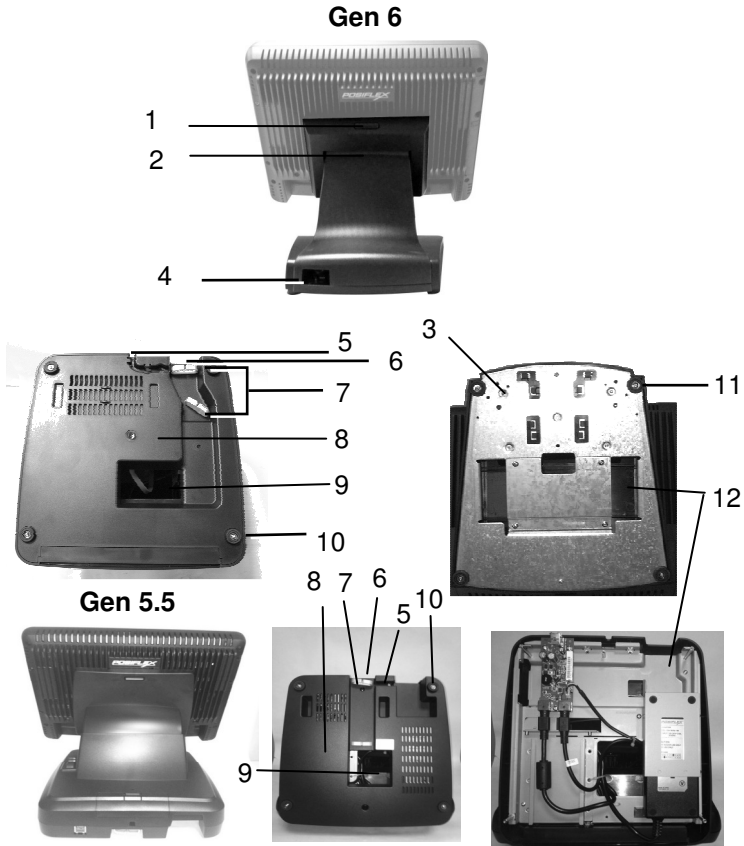
1
2
3

6

4

5

7
8
9
10

KS-7715/7717/7515/7517 Power

PARTS IDENTIFICATION

1. Main Unit
2. Touch panel / LCD panel
3. Side Mount Bay
4. Power indicator
5. Base stand (Gen6 or Gen 5.5, specified on order)
6. HDD cover
7. Power switch
8. Brightness adjust push button "+"
9. Brightness adjust push button "-"
10. +12V Powered USB port

Base Stand

Gen 6

Gen 5.5

PARTS IDENTIFICATION

1. Lock/Release button for main unit
2. Tilt adjustment
3. Base stand
4. Cable exit
5. Cable groove
6. Cable exit
7. Cable holder
8. Bottom plate
9. Cable passage in bottom plate
10. Rubber feet with bottom plate fixing screw
11. Rubber feet with bottom plate fixing screw
12. UPS battery bracket

PRODUCT FEATURES

Standard Features:

a) Mainboard: the compatible mainboard shared between KS-7715 and KS-7515
b) CPU: **KS-7715/7717** -i5-2510E 2.5GHz, 3M Cache

    KS-7515/7517 - Intel Celeron B810
                  - Intel Celeron B815
                  - Intel Pentium B950

c) Fan free structure with Aluminum die-cast main unit casing for harsh environment.
d) Data storage device: 2.5" SATA HDD in main unit or optional SSD in main unit or optional SATA HDD in base with optional RAID 1 control
e) An advanced slim base design that supports 2nd LCD display or pole mount customer display on rear base, storage room for optional 2.5" HDD and optional UPS battery in base. Also possible to be without base but wall mount bracket for wall mount application.
f) OS Support: XP Pro, POS Ready 2009, Win 7, POS Ready 7, Linux
g) High quality 15" TFT (KS-7715/7515) 17"TFT (KS-7717/7517) active matrix LCD panel
h) LCD panel with easy tilt angle adjustment from 15° to 70°
i) LCD brightness adjust buttons at side of main unit
j) Power Supply: KS-7715-7717/120W;KS-7515-7517/80W
k) Touch screen: 5-wire resistance, IR, or Projective Capacitive
l) Water resistant structure allowing easy cleaning
m) Easy maintenance construction

n) RAID-support for KS-7715/7717/non-RAID support for KS-7515/7517
o) Various I/O ports supported, including:
   1. 4 serial ports with 3 of DB9 connectors and one 10-pin RJ45 type modular connector. The COM1/2/3/4 connectors are supported with capability for +5V DC support through BIOS setup and Jumper setting.
   2. +12V DC power supply for COM 1/2/3/4 through jumper setting.
   3. 6 standard USB ports on the rear I/O panel, another standard USB port on the other side
   4. One LAN port Ethernet 10/100/1000 Base T with LAN status indicators on jack (green for link, orange for data transmission)
   5. One external VGA monitor port with +12V DC support through BIOS setup
   6. LED indicators for systems operation status
   7. Two built-in internal 2W speaker with one line-out
   8. One CR port capable of controlling up to 2 cash drawers.
   9. One 4-pin connector for optional UPS battery in base
p) **Touch control functions**: left/right button, double click, drag & draw
q) Dual display support (per OS capability)
r) VGA memory support DVMT 5.0.
s) Supports SO-DIMM socket X 2, DDR3 1066/1333 MHz, Max up to 8GB
t) Integrated structure for side mount upgrade kit like SD-460W/SD-660W/SD-860W/KP-300W with software programmable MSR
u) **Preconditioned power up function set up thru BIOS** –Wake System with Fixed Time/Wake Systems with Dynamic Time, Wake on LAN, and Wake on Ring

Option Items:

Note: The underlined items in the following list means that option must be set prior to shipment from the factory. The rest items can be set by the dealers.

a) DDR3 SODIMM memory expansions up to 4GB max in one SODIMM, TTL 8GB
b) 16~128GB SSD
c) RAID 1 control for both SATA HDD's in main unit and in base for KS7715-7717 only
d) Integrated side mount upgrade kit:
   ◇ SD-460W/SD-660W/SD-860W: with options
   ◇ MSR, optical fingerprint sensor, RFID or Wi-Fi.
   ◇ KP300W: Programmable keypad with options MSR, smart card reader

Part 6

e) Integrated rear base mount devices:
    LCD 2x20 pole display: PD-306/U, PD-309
    LCD 2x20 rear top mount display: PD-310/A
    VFD 2x20 pole display: PD-2602/U, PD-2605/U
    VFD 2x20 rear top mount display: PD-2604/A
    Graphics LCD display: PD-76X2/PD-76X4
    12" second LCD monitor: LM-6101B
    15" second LCD monitor: LM-8015/LM-8025/LM-8035/TM-8045/LM-8055
f) Preload OS: Win 7, POSReady 7, POSReady 2009, Win XP Pro
g) Wireless LAN adaptor in USB interface: 802.11 b/g/n
h) UPS Battery: 2300mAh/12V
i) Optional mini PCIE for WiFi module

INSTALLATION GUIDES

CAUTION: Before any installation or cable connection to the set, please always make certain that the system is turned off and the external power source to the set is removed to prevent electric hazard! Never touch any metal pin in the connectors or circuits to avoid high voltage hazard or electrostatic discharge damage unless the operator is well grounded. Failure to do the above will void the product warranty!

TECHNICAL MANEUVERS

Some technical maneuvers for this terminal such as serial COM port +5V/+12V power supply settings and VGA port +12V power supply setting are supported in system BIOS or Jumper setting. Nevertheless, such support is limited to the applications of specific Posiflex peripherals and must be disabled when the Posiflex peripherals are disconnected. **Failure to follow the discipline would result in electric or fire hazard and such consequences are not covered by product warranty!**
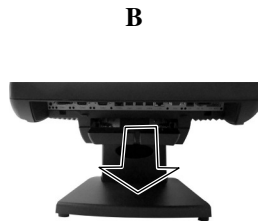
OPENING CABLE COVER

Please follow steps sequentially with reference to pictures below to remove the cable cover.

For Gen 6th base
Step A: Turn panel backward to most horizontal position
Step B: Pull at the removal hollow toward the user

A   **B**

DISCONNECTING ALL CABLES

After removal of the cable cover, the connector area will be accessible then. Please **first note orientations of every existing cable connection** and then disconnect every cable properly before separating the main unit from the adjustable stand assembly. Please note that the click lock spring has to be pressed down prior to pulling out the connector such as the LAN port or the CR port or the alternate RJ45 port. Please also note that the fixing screws have to be loosened free prior to disconnection such as the regular DB9 COM ports or the VGA port. Please **always hold the connector head** instead of pulling on the cable wire when disconnecting any connector. Failure to do this could damage the cable and jack that is considered as an **artificial destruction. Damages due to incorrect disconnection operation are not covered by product warranty!**

SEPARATING MAIN UNIT

In order to settle the touch terminal properly in a point of sale system, all the cable connections have to be routed through its base. Therefore, please observe the procedures from A to C below to separate the main unit from the slim base stand assembly after all cables in cable cover disconnected.

Step A: Prepare a soft clean flat surface, such as a piece of cloth on the desk to seat the front surface of main unit

Step B: Press the Lock/Release button for main unit detach and meantime.

Step C: Slide the base stand assembly to right to separate the main unit from base stand.

Gen.6th base stand.
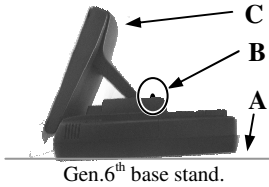
INSTALLING UPS BATTERY (OPTION)

The optional UPS battery is delivered in the carton if it is ordered. For slim base model, please refer to the left picture and place the UPS battery in the cavity in base with the rectangular marked end first. Route the battery connection cable together with all other external connection cables through the arrow marked passage to the battery connector on the main unit. If the optional cable clip is available, insert it into a hole marked in circle in the picture and use it to hold the battery cable. The UPS battery will be held in place when the bottom plate is screwed back. As for gen 6 super slim base model, please remove the UPS battery bracket on bottom of the stand assembly instead of the bottom plate as in the right picture.


Gen 6 base
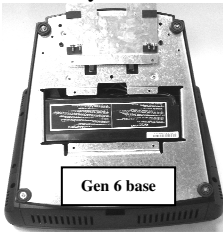
OPENING STAND ASSEMBLY Gen 5.5 Base

Take the adjustable stand assembly and turn it up side down to show the bottom of the base. Remove the bottom plate fixing screws in rubber feet to open the bottom plate as in the picture at the right.

There is a power USB installed as illustrated on the upper-left part inside Gen 5.5 base inside below.

After installing a power USB, a UPS battery pack

Fixing Screws

Base bottom
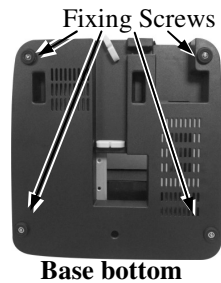
can be located then connected on the +12V battery port sequentially as below.

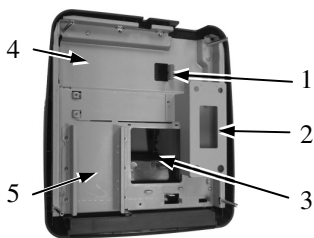A)   B)   C)

Power USB
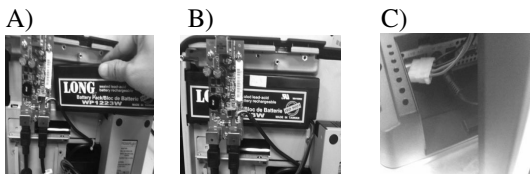
Gen 5.5 base inside

The inside of an example base will look like the picture below with numbered items listed. However, there could be some variation to the contents inside depending on what option items actually installed.

Power Cord Routing

I/O Cable Routing
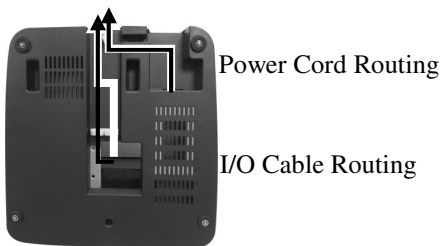
Gen 5.5 Bottom (outside)

1. UPS Battery Stopper
2. Power Adapter Holder
3. Cable Passage to Main Unit For Desktop Mount Application
4. UPS Battery End Hold
5. Option HDD Bracket

Gen 5.5 Bottom (inside)

SIDE MOUNT UPGRADE KIT

Remove the 2 circled screws in the last picture above to remove the cover for side mount upgrade kit. Take out the cable inside this cover as circled in the right picture and connect it to connector inside the side mount upgrade kit

Part 10
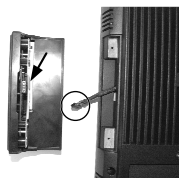
as arrowed in the same picture. Gently arrange the excessive length of this cable back in the hole and screw-fit it back to the position originally occupied by the cover. Please reserve the cover if there is chance to have the side mount kit removed in the future.

BASE MOUNT UPGRADE KIT

Before installing base mount upgrade kit, be sure to remove Posiflex logo for screw hole view. Please follow the instructions on the manual that comes along with the customer display PD- 306/U, 309, 310/A, 2602/U, 2604/A, 76x2, 76x4, and LM-6101B, LM-6501B, LM-80X5 if installed.

REAR TOP MOUNT UPGRADE KIT

1. For Customer Pole Display:

Please apply carefully the 2 small fixation shoulder screws that come along with the rear top mount upgrade kit to the back of the terminal at the screw holes triangle marked in the 2 upper right pictures. However please do not screw them to the bottom but at a position that is about 1 turn loose from the bottom. Similarly please loosen the screws by 1 turn for some KS models with these 2 screws preinstalled. Hook the rear bracket of the upgrade kit onto the shoulder screws with the large circular holes. Slide to the right of the upgrade kit and gently tighten the shoulder screws. **Do not overdo the tightening or unrecoverable thread damage will occur.** Arrange the interface cable to enter the base stand at a notch on the edge near the lock/release button as indicated by white arrow in the above picture. Remember to enable the +5 V DC supply in the COM port of the main unit for the upgrade kit if the serial interface model is used. The power supply in the I/O port must be disabled if it is no longer to support these intended devices otherwise **any damage or loss caused consequently shall be out of product warranty!**
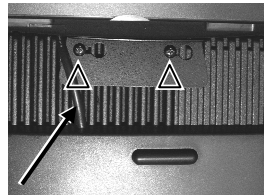
2. To Install Second LCD Display LM-8035

1. Remove the logo label on the top of the back side of main unit.
2. Secure the metal bracket shipped with LM-8035 with four screws onto the main unit.
3. Align the screw holes of the metal bracket on LM-8035 with those on the bracket just attached to the main unit.
4. Secure the three screws to attach LM-8035 to the terminal.
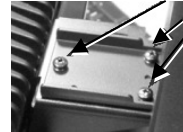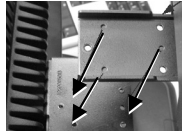
CONNECTING CASH DRAWER (OPTION)

The RJ11 connector in I/O area of the terminal can be used for controlling most of the common cash drawers available on the market. However, it is most recommended to use Posiflex CR-2200 or CR-2210 or CR-3100 or CR-4000 or CR-4100 or CR-6300 for best compliance to operate the opening mechanism and to monitor the drawer open status.

This cable of Cash Drawer has a 6-pole plug at one end and an 8-pole plug at the other. The 8-pole plug should be inserted into the connector of the cash drawer which marked "Signal". The 6-pole plug should be inserted in the connector marked "CR" which can be found in the main connection area in the system.

The user may also purchase the optional 2-in-1 cash drawer control cable to control 2 cash drawers in 1 port. It has a 6-pole plug at one end and two 8-pole plugs at the other. The 6-pole plug should be inserted in the connector marked "CR" found in the I/O area in the system. Each 8-pole plug should be inserted into the connector marked "signal cable from POS Printer" at the rear of one of the cash drawers.

CONNECTING CABLES

To have the re-assembled main unit with stand assembly ready for operation, please connect all required cables to the appropriate connectors. Please make sure that each connector is connected to the correct port with the correct orientation. **Damages due to incorrect connection or orientation are not covered by product warranty!**

Some connectors like the 10-pin RJ45, LAN or CR connector have to be gently inserted until a click sound is heard. It is recommended that connectors such as the RS232 and VGA connector be screwed into place once seated.

Re-adjust the tilt angle of the screen for best viewing. Connect the cables to appropriate external devices through the cable exit at the bottom of stand assembly. Please make sure that each connector has to be connected to the right device in the right way.

CAUTION: On doing any insertion or extraction of any connector, please always hold the connector head itself instead of pulling on the cable wire. Failure to do this could damage the cable and jack that is considered as an artificial destruction and is not covered by the warranty.

WALL MOUNTING
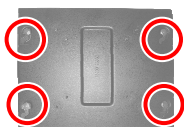
WB-6000VB

The wall mount model is delivered without any base but with a wall mount kit. Please follow the installation guide that comes with the wall mount bracket to fix the wall mount bracket on wall and then hang the main unit with the matching pegs into the matching holes on wall mount bracket.

Please note that since there is no base for the wall mount model there can be no base installed device nor base mount kit. The area required for wall mount application is determined by the main unit dimensions and is 378 mm in width and 312 mm in height.

UPGRADE WALL MOUNT KIT

There is an upgrade wall mount kit coded as SK-200 that supports an omni-directional Laser bar code scanner as a derivation from the basic wall mount bracket WB-6000VB. With this kit, the Laser scanner is installed under the KS system. Please follow the instructions that come with this kit to install and to utilize it.

OPERATING SYSTEM RECOVERY

For KS systems preloaded with Windows XP Pro/ POS Ready/ Win 7/ POS Ready 7 on HDD, Posiflex provides recovery DVD delivered with the touch terminal for the preloaded operating system. The System Integrator shall take care of software restoration after OS being recovered. A Posiflex supplied USB interface COMBO drive will be required for such action. Other brand CDROM drives may require their own driver different from what is supported in the recovery DVD.

Please use the recovery DVD in rescue operation only. Using it otherwise may wipe out whatever stored in the HDD! All upgrade devices drivers

needed for manual installation in a usual way are available in the subfolder "\drivers" in OS recovered HDD and the latest versions of these required drivers will be available on our web: http://www.posiflex.com.tw. Then follow instructions from your system integrator for software recovery.

OPERATING SYSTEM INSTALLATION

This product is highly professionalized equipment. The installation of an OS into a machine without any preloaded OS could be a major difficulty for average user or obstacle by possibly unintentional negligence even for PC veterans to accomplish such a task. Therefore, OS installation into a system without preloaded OS is highly discouraged. Posiflex Technology, Inc. shall not be responsible for any technical support to questions on this aspect.

USING THE TOUCH TERMINAL

APPLICATION ENVIRONMENT

It is **very** important that you check the following operational guidelines:

Ventilation

This terminal must **NOT** be operated in an environment with restricted ventilation. There must be at least 25 mm air clearance around any top or side ventilation holes with a free flow of air around the unit at **ALL** times for the installation.

Operating Environment

The equipment must not be operated or stored in extremes of both temperature and humidity/moisture. (Operating range 0°C to 40°C and up to 80% humidity – non condensing, max. wet bulb 26°C)

UPS Battery (option)

General care:

The UPS battery is consumable beyond product warranty. Please definitely observe the alerts in the beginning of this manual. If the equipment is to be powered off for more than few days, please always **disconnect** the battery from the system. Reconnect it and turn on the system to recharge the battery for 1 ~ 2 hours every 3 months for temperature lower than 30°C. Recharge for 1 ~ 2 hours every month for temperature over 30°C. Temperature above **40°C must be strictly avoided** as it could cause termination of battery life and unexpected result even if the battery is not in work. The UPS battery can

Part 14

support basically the data preservation and smooth running of the system during intermittence or few minutes (30 min. up depending on loading and battery condition) power failure.

Battery replacement:
When the UPS battery is installed, the user can install the utility Power Manager that will interface the UPS battery monitor status with user. Find "PSW_vxxx" in the folder \drivers of the preloaded OS or search in the product information CD to install it. Please replace the used up UPS battery at power off whenever the message at the right appears.

Emergency treatment:
The battery is constructed maintenance free and leak-proof. It is well protected in KS system as long as the ambient temperature remains below 30°C and the ventilation of the KS system remains free. However, should any accident happen and the sulfuric acid from the battery spills on skin or clothing, wash immediately with water. If the acid comes in contact with eyes, rinse eyes with a large amount of clean water and see a doctor immediately. A larger external battery may be connected to give an extended operation. Please check your dealer about this capability when required.

CAUTION:
If there are any signs of over charging or leakage of electrolyte please contact your dealer immediately!

Power Supply
The operating voltage range of the power adaptor should cover the local power supply for proper operation. The power cable, the power outlet and any power fusing arrangements must conform to local safety regulations.

Please **never do any connection / disconnection** when system is still powered on. **Please always keep the external power adaptor in a free air circulation.**

POWER ON/OFF

Touch Open Cover
Please refer to the previous chapter **PRODUCT PICTURE** during this part in order to find out the buttons. A gentle tap on the touch open cover at the left side of the main unit will open the cover and show the power switch at the top area. It is preferable to keep this door closed through daily operation.

There must always be at least 10 seconds waiting before switching on again once the system is powered off successfully.

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Power Indicator

There is a power indicator LED module serving for several purposes under the logo at the center of lower rim of LCD panel. The relationship between the indicator status and other conditions is summarized in following table:

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Indicator Status	System Status	External Power	UPS Battery	Powering Up
Off	Off	Off	Not present	Not possible
Off	Off	Off	Present	Not allowed
Green	Off	On	No influence	Allowed
Blue	On	On	No influence	Not required
Blue/flash	On	Off	Activated	Not required
Green/rapid flash	On	Off	Running at low capacity	Not required

Hardware Power Switch

The power switch located in the touch open cover of the main unit is a tactile pushbutton switch. This switch controls the power on/off of the system. This switch turns the system on when being pushed only when external power is present. This switch turns the system off when being pushed again during power on status. However, if the system hangs due to any reason such as software resource conflict, a simple push on the switch may fail to turn off the power. In this case, please utilize the **forced power off feature** by pressing the switch and holding for within 10 seconds. In case the turmoil is so vigorous that some hardware registers may be confused causing trouble for system restart or even this forced power off, please disconnect the UPS battery if installed and the AC power supply for few minutes. This may reset all hardware registers.

Software Support Features

The KS series provides a software power off command for application program maneuvers. The KS also provides a specific means for the software to detect if the system is working on external or UPS battery power. Due to this feature, compatible software applications have the ability to change operating conditions when running on standard/backup power. The software programmer may take reference from the KS technical manual to apply such features.

Automatic Power on Control

KS-7715/7717/7515/7517 provides three automatic power-on control options:

Wake System with Fixed Time/Wake Systems with Dynamic Time and Wake on Ring.

To enable Wake System with Fixed /Dynamic Time,
1.   Press **Del** on system startup to access BIOS setup.
2.   On **Advanced** tab, at **Wake system with Fixed time** or **Wake system with Dynamic time,** select **Enabled** and set a specific time for the system to wake on.

To enable Wake on Ring,
1.   Press **Del** on system startup to access BIOS setup.
2.   On **Chipset** tab, select **PCH-IO Configurations.**
3.   On the bottom of the list, select to enable **Wake on Ring.**

BRIGHTNESS CONTROL

In the left side of the main unit below the power switch, there are brightness adjust push button switches and one USB connectors. Each single press on the + or – button changes the LCD panel display brightness by a small amount. When you press and hold the button the change will keep on until release or extreme condition matched. For those control buttons, please refer to the previous chapter.

USB PORTS

There are in total 7 USB ports for external connection: 1 on left side below power switch and LCD brightness adjust buttons; 6 on I/O area. All of them comply with USB 2.0 standard.

DISPLAY ISSUES

Main LCD Display

For best viewing result please set your display resolution at 1024 x 768 for 15" LCD with high color. The system Video Memory is shared from system memory. The video graphics support DVMT 5.0

VGA Port

The VGA port supports either a separately connected LCD monitor or touch monitor. To support the DC power to the Posiflex LCD display, have a qualified technician to set the power supply in KS main unit through the VGA connector according to Posiflex technical information. **Do not connect other brand monitor to this port before the power in this port is disabled.**

Note: When 2nd display is connected, the screen display of system boot up stage and application in some OS will be smaller than both usual 1st and 2nd displays.

SERIAL PORTS – COM1/2/3/4

For this terminal, there are 3 serial ports in form of DB 9 male connectors and one in 10-pin RJ45 connector. These serial ports can supply +5 V or +12V DC after proper BIOS setup (for +5V DC) and jumper settings (for +12V DC) to support Posiflex POS peripheral devices. **However, do not connect any other brand device to this port before the power in this port is disabled.**

PARALLEL PORT (Optional)

For this terminal, the parallel port can be available only through use of the optional conversion cable. It should be connected to the special connector inside the service window as described earlier. The other end of the cable is the normal 25 pin D sub female LPT connector.

TOUCH PANEL

All paragraphs below are applicable for models with touch panel only. The user of those models without touch panel can ignore them and consider this user's manual ends here.

Mouse Emulation

When the touch driver is properly installed, this touch panel works exactly like a standard mouse for each interface. However, if the system is running under safe mode, the touch panel calibration may become unsatisfactory due to disabled drivers. It is recommended to use a standard USB mouse or keyboard in this mode.

All the below mentioned mouse emulation functions can be manipulated through relevant software. The system can give a beep and a click on the left button of a mouse at the point when the touch panel is touched. If the point touched is dragged across the screen surface, it works as the mouse drag and drop feature. If the point is touched, released and touched within a short time interval, it is double-clicking left button of the mouse. To obtain the effect like clicking on the right button of a mouse, touching any point on the screen surface after touching the right-click sticky button results as a click on the right button of the mouse at that point.

Touch Manager

Touch Terminal Manager for each type of touchscreen is available for user to set up touchscreen functions. If your system is preloaded with the OS of your choice, the chances are the Manager is already installed on your system.

Nevertheless, you can also download the Manager from our website:

1. Visit us at http://www.posiflex.com, and click **Support** on the main menu bar.
2. On **Support** page, click **Download** on the left to access **Download** page.
3. In **Search by keyword** search bar on **Download** page, type "Touch Terminal Manager", and then press **Enter**.
4. In the search results, select and download the Manager that suits the touchscreen type of your system.

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