CASH
DRAWER

■ USER'S GUIDE VER. B

<u>**NOTICE**</u>

The manufacturer of the POS cash drawer makes no representation or warranties, either expressed or implied, by or with respect to anything in this manual, and shall not be liable for any implied warranties of fitness for a particular purpose or for any indirect, special or consequential damages. Information in this document is subject to change without notice and does not represent a commitment on the part of the manufacturer.

<u>**FCC NOTICE**</u>

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 the 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 may be required to correct the interference.

CE

Models CR-3100/3200
CR-3104/3204

INTERFACE DESCRIPTION

. **CR3100/3200** is a dumb cash drawer, which must be driven by **POS** printer or Posiflex POS system.

. **CR3104/3204** is a dedicated low cost **RS232** cash drawer, which can be directly driven by **RS232** signal.

FEATURES

. Rugged design with reinforced heavy gauge steel construction

. Large ball bearings riding on special guides for remarkably smooth drawer slide

. Contemporary style

. Advanced electronics that extend the **MTBF** (Mean Time Between Failure)

. Precision mechanical parts with tight tolerance to assure wobble-free drawer movements

. Check slot for non-cash or large-bill transaction

. Three-position lock for maximum cash security

. Drawer open sensor

. Dedicated **RS232** Interface (**CR3104/3204 only**)

. Removable tray with a lock-on cover. Bill compartments and coin compartments are adjustable. The tray cover TC3100 for CR3100/3104 and TC3200 for CR3200/3204 are optional.

SPECIFICATIONS

MECHANICAL: Dimensions: 500 (W) x 420 (D) x 90 (H) mm (**CR-3200/3204**)

400 (W) x 410 (D) x 85 (H) mm (**CR-3100/3104**)

Weight: 9.0Kgs (**CR-3200/3204**) and 6.7Kgs (**CR-3100/3104**)

ELECTRICAL:

INPUT TO SOLENOID

Pulse Amplitude	12 to 24 VDC	Max. Input Voltage	26.4 VDC
Pulse Width	100 to 200 msec	Current Consumption	1A @ 12 VDC
Pulse Duty Cycle	10% max.	Activation Current	0.9 A max.

SERIAL INPUT   (**CR3104/3204 only**)

Data Format	Standard **RS232C**
Protocol	No handshake
	Baud rate:150,300,600,1200,2400,4800,9600,19200
	Parity: none, even, or odd
	Data bits: 7 or 8

8P Telephone JACK PIN configuration   (**CR3100/3200 only**)

PIN1	(BLACK)	OPEN drawer sensor, connects to PIN2 when drawer open
PIN2	(RED)	OPEN drawer sensor, connects to PIN1 when drawer open
PIN7	(GREEN)	INPUT to solenoid
PIN8	(YELLOW)	INPUT to solenoid

INTERFACE DESCRIPTION

Model CR-3100/3200 with POS Printer Interface:

Whenever the **POS** application software sends the required special command to the **POS** printer or CR port of Posiflex POS system, the printer will output an electrical pulse

to open the drawer. This required special command is determined by the type of the **POS** printer used. For example, the special command for **STAR POS** printer and Posiflex POS system CR port is the bell command (**07H**).

Model CR-3104/3204 with Dedicated Interface:

Whenever the **POS** application software transmits any kind of data to the computer **COM1** (or **COM2**) port, the drawer will be opened.

FUNCTIONAL TEST (CR3104/3204 only)

1. Under DOS prompt, type "MODE COM1 (or COM2) 96 N 8 1". Hit the **ENTER** key.
2. Type "TYPE CON>COM1 (or COM2)". Hit the **ENTER** key.
3. Type "ABC" (or any code). Hit the **ENTER** key, then the drawer will open.
4. Hit **CTRL-C** (Press Ctrl and C keys together) to return the computer back to the normal display mode.

INSTALLATION

CR3100/3200: Connect the drawer to **POS** printer as shown in **Fig1.**

CR3104/3204: 1. Open the PC case. Put the metal bracket with power connector into one of the I/O windows.
2. Connect the cable to the **HDD** type power connector of PC power supply. See **Fig2**. Then close the PC case.
3. Connect the DB-9 connector to the computer's serial port of COM1 (or COM2). Connect the 4P phone plug connector to the added I/O bracket. See **Fig3**.
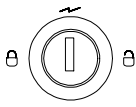
CARTON CONTENTS

1. Cash drawer preassembled
2. User's manual
3. Key 2pcs: There is a key serial No. sticker on the cash drawer bottom plate. If user lost the key, he/she can order the key according to this number.
4. Signal cable: the standard signal cable for CR3100/CR3200 is CCBLA-180 which has a 8 pin plug at one end to connect to the cash drawer and a 6 pin plug at the other end to connect to the POS printer. This cable serves for most popularly used POS equipment such as all Posiflex POS terminals, all Posiflex POS printers, most EPSON POS printers, most STAR POS printers and all other compatibles. The user may cut the 6 pin end or order the ready cut cable CCBLA-180A and assemble this free end according to his POS printer specification if the POS printer used applies different connection. The cable connection on CCBLA-180A is as below:

Wire color	RJ45	Function
Red	Pin 1	Drawer open sense
Blue	Pin 2	Drawer open sense return
Green	Pin 7	+ 24V to solenoid
Yellow	Pin 8	Drawer kick pulse

As for CR3104/CR3204, the serial signal cable is already built on.
5. Power connector cable and I/O bracket plate. (for CR3104/CR3204 only)

Model CR–3100/3104/CR–3200/3204 Keylock Operation:

⌐ : Permanent lock the drawer.
⌐ : Open the drawer by the key.
〰 : Automatic open the drawer by POS
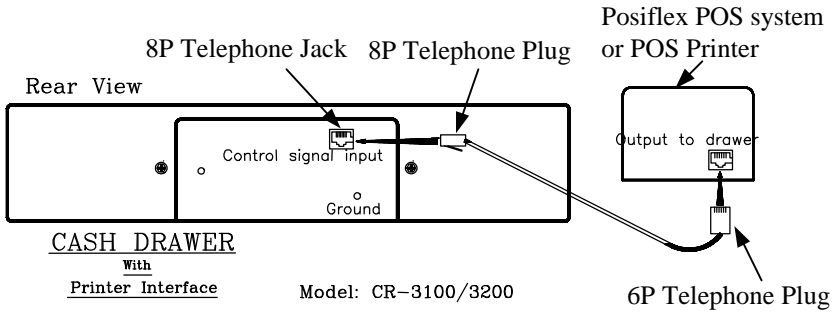printer output (CR3100/3200) or the
computer control (CR3104/3204)

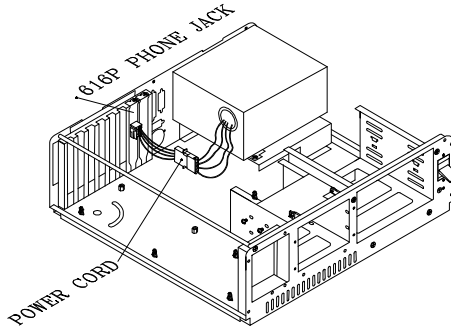**Keylock**
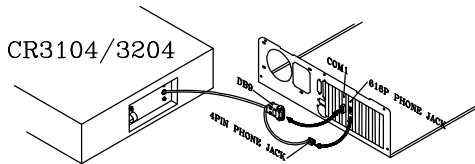
8P Telephone Jack   8P Telephone Plug

Posiflex POS system
or POS Printer

Rear View

Control signal input

Output to drawer

Ground

CASH DRAWER
With
Printer Interface

Model: CR–3100/3200

6P Telephone Plug

Fig 1

1616P PHONE JACK

POWER CORD

Fig 2

CR3104/3204

COM₁

DB9

616P PHONE JACK

4PIN PHONE JACK

Fig 3

3