

ELECTRONIC CASH DRAWER DEDICATED SERIAL INTERFACE OPERATING AND MAINTENANCE INSTRUCTIONS

SPECIFICATIONS

DIMENSIONS:	2200	18.8"W x 15.3"D x 3.9"H	26 lbs.
	2232	18.8"W x 19.7"D x 3.9"H	29 lbs.
	21"	18.8"W x 21.0"D x 3.9"H	31 lbs.
CONSTRUCTION:	18 & 20 GAUGE STEEL, UNITIZED WELDED CONSTRUCTION		
LOCK:	2 POSITION (STANDARD) 3 POSITION (OPTIONAL)		
EXTERIOR FINISH:	TEXTURED HYBRID POWDER		
COLOR:	PUTTY OR BLACK. OPTIONAL COLORS AVAILABLE		
CASH TRAY:	ABS PLASTIC TRAY WITH 5 BILL & 5 COIN COMPARTMENTS		

SET-UP

PREPARE A LOCATION FOR THE CASH DRAWER BY SELECTING A STURDY, LEVEL SURFACE THAT IS NO SMALLER THAN THE CASH DRAWER. POSITION THE CASH DRAWER AND REMOVE THE KEYS FROM THE ENVELOPE, OPEN THE DRAWER AND REMOVE THE SHIPPING TAPE FROM THE TRAY.

REMOVE POWER SUPPLY ADAPTER FROM THE CURRENCY TRAY. UNCOIL THE WIRE AND PLUG THE SMALL TIP END INTO THE POWER SUPPLY RECEPTICAL ON THE REAR PANEL OF THE CASH DRAWER. PLUG THE POWER ADAPTER END INTO A 120 VOLT AC RECEPTICAL.

NOTE: MAKE ALL ELECTRICAL CONNECTIONS TO THE CASH DRAWER AND COMPUTER WITH THE POWER OFF.

UNCOIL THE INTERFACE CABLE AND SECURELY FASTEN TO COM 1 OR COM 2 OF THE COMPUTER.

FOLLOW THE TEST PROCEDURE TO VERIFY THE OPERATION OF THE CASH DRAWER.

DRAWER OPERATION

THIS CASH DRAWER IS DESIGNED TO OPEN ELECTRONICALLY THROUGH THE SERIAL PORT OF THE COMPUTER. TO OPEN THE CASH DRAWER ELECTRONICALLY, THE COMPUTER MUST SEND THE NECESSARY SIGNAL THROUGH THE SERIAL PORT TO THE CASH DRAWER THUS RELEASING THE DRAWER.

TO OPEN THE CASH DRAWER MANUALLY, ROTATE THE KEY TO THE UNLOCKED POSITION, FIGURE 1, AND DEPRESS THE LOCK INTO THE CABINET. THIS WILL RELEASE THE DRAWER.

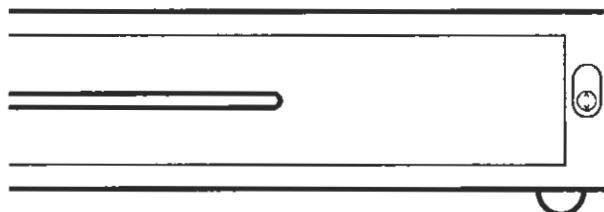
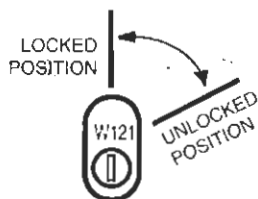


FIGURE 1

INTERFACING INFORMATION:

POWER SUPPLY: 120 VOLT AC 60Hz 12W INPUT,
12 VOLT DC 500 mA OUTPUT ADAPTER

I/O CONNECTION: STANDARD RS232 SERIAL PORT.

CABLE: 35' LENGTH.

TEXT FORMAT: ANY CHARACTER IN THE ASCII SET, NO
PARITY, 8 DATA BITS, 1 STOP BIT.

BAUD RATE: 110 TO 9600 BAUD.

PIN OUTS: 25 PIN CONNECTOR

PIN 2	TRANSMIT DATA
PIN 7	SIGNAL GROUND
PINS 4-5	JUMPERED
PINS 6-12-20	JUMPERED

9 PIN CONNECTOR

PIN 3	TRANSMIT DATA
PIN 5	SIGNAL GROUND
PINS 7-8	JUMPERED
PINS 1-4-6	JUMPERED

TEST PROCEDURE

TESTING THE CASH DRAWER INVOLVES CONFIGURING THE SERIAL PORT AND SENDING DATA TO THE CASH DRAWER. THE FOLLOWING TEST PROGRAM IS FOR IBM PERSONAL COMPUTERS AND COMPATIBLES. THE PROGRAM MUST BE EXECUTED FROM DOS. THE DOS PROMPT, I.E. A> OR C> DEPENDING ON THE DRIVE, SHOULD BE ON THE SCREEN BEFORE TYPING THE PROGRAM. THE PORT SPECIFIED IN THE PROGRAM MUST BE THE PORT THE CASH DRAWER IS PLUGGED INTO: I.E. COM1 OR COM2.

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FROM DOS:C> MODE COM1:9600,N,8,1      (ENTER)
              COM1:9600,N,8,1-        (REPLY)

              C> COPY CON COM1:        (ENTER)
              A                          (ENTER)
              CONTROL Z                 (ENTER)
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THE DRAWER WILL OPEN WHEN CONTROL Z (ENTER) IS PRESSED.
ANOTHER PROGRAM IS:

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FROM DOS:C> MODE COM1:9600,N,8,1      (ENTER)
              COM1:9600,N,8,1-        (REPLY)

              C> ECHO>COM1             (ENTER)
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THE DRAWER WILL OPEN WHEN (ENTER) IS PRESSED. CLOSE DRAWER. TO OPEN AGAIN PRESS F3 AND COMPUTER WILL REPLY WITH:

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C> ECHO>COM1                          (ENTER)
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THE DRAWER WILL OPEN.

IF THE DRAWER FAILS TO OPEN USING THE TEST PROGRAM, REFER TO THE TROUBLE SHOOTING GUIDE. IF DRAWER OPENS PROPERLY INSTALL YOUR P.O.S. SOFTWARE AND PROCEED ACCORDING TO THE SOFTWARE MANUFACTURERS INSTRUCTIONS.

TROUBLESHOOTING GUIDE

IF YOUR CASH DRAWER WILL NOT OPEN CHECK THE FOLLOWING ITEMS BEFORE PROCEEDING ANY FURTHER.

- 1) IS THE 12 VOLT POWER SUPPLY ADAPTER PLUGGED INTO THE WALL OUTLET AND IS THE OTHER END CONNECTED TO THE CASH DRAWER.
- 2) CHECK THE INTERFACE CABLE TO SEE THAT IT IS FIRMLY CONNECTED TO THE COMPUTER.
- 3) VERIFY YOU ARE CONNECTED TO THE PROPER COM PORT. IF YOUR SOFTWARE IS COMMUNICATING WITH COM 1, THE CASH DRAWER MUST BE CONNECTED TO PORT 1 OR IF YOUR SOFTWARE IS COMMUNICATING WITH COM 2, THE CASH DRAWER MUST BE CONNECTED TO PORT 2 .
- 4) BE SURE THE CASH DRAWER IS ELECTRICALLY "ON" WHEN EQUIPPED WITH THE THREE POSITION LOCK.
- 5) USE THE TEST PROGRAM PROVIDED FOR INITIAL SETUP. DO NOT USE VENDOR SOFTWARE AT THIS TIME.

SYMPTOMS USUALLY OCCUR IN TWO CATEGORIES; SOFTWARE OR HARDWARE.

WHEN YOU PROCEED TO RUN YOUR TEST PROGRAM AND YOUR COMPUTER GIVES YOU AN ERROR MESSAGE "WRITE FAULT ERROR", "DEVICE TIME OUT" ETC., THIS MESSAGE INDICATES THE PROPER HANDSHAKING BETWEEN THE COMPUTER AND THE CASH DRAWER DID NOT OCCUR. CHECK THAT YOUR CASH DRAWER IS CONNECTED TO THE PROPER COM PORT. CONSULT YOUR MANUAL FOR PROPER HANDSHAKING. CTS IS JUMPERED TO RTS. DSR, DCD AND DTR ARE JUMPERED TOGETHER. THE RED WIRE GOES TO TXD AND THE BLACK WIRE TO GROUND. SEE "PIN OUTS" ON PAGE 2.

IF YOU RUN THE TEST PROGRAM AND THE DRAWER DOES NOT OPEN AND NO ERROR MESSAGE IS INDICATED, VERIFY THAT YOUR BAUD RATE IS SET BETWEEN 110 AND 9600. IF YOUR COMPUTER IS NOT SET WITHIN THIS SPECIFICATION, CORRECT IT IN YOUR SOFTWARE.

THE CASH DRAWER MAY NOT BE GETTING POWER. THE POWER SUPPLY ADAPTER SHOULD PRODUCE 12 TO 20 VOLTS DC. USE A VOLT METER TO CHECK THE VOLTAGE AT THE CONNECTOR TO THE CASH DRAWER. THE OUTER TIP IS POSITIVE IN RELATION TO THE INNER SLEEVE. IF THE ADAPTER IS BAD, A NEW ONE CAN BE ORDERED FROM THE FACTORY OR PURCHASE ONE RATED AT 12 VOLTS DC 500 mA TIP POSITIVE.

IF THE CASH DRAWER NOW OPENS PROPERLY USING THE TEST PROGRAM, BUT FAILS TO OPEN WITH P.O.S. SOFTWARE, CONTACT THE SOFTWARE VENDOR FOR FURTHER HELP. IF THE DRAWER WILL NOT OPEN AFTER RUNNING THE TEST PROGRAM AND LOOKING FOR OBVIOUS ERRORS, CONTACT THE SUPPLIER YOU PURCHASED THE DRAWER FROM FOR FURTHER ASSISTANCE.

PREVENTATIVE MAINTENANCE

- LUBRICATE THE LATCH MECHANISM PERIODICALLY WITH A LITHIUM BASED GREASE. INSPECTION AND LUBRICATION WILL VARY BASED UPON OPERATING CONDITIONS. INSPECT AND LUBRICATE THE LATCH MECHANISM MORE FREQUENTLY UNDER HEAVY USE.
- AVOID BREAKING COIN ROLLS ON THE DRAWER FRONT OR CURRENCY TRAY.

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