



EX2000 Series Vending System

USER MANUAL

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Introduction

Overview

This document describes the operation and service of the *EX2000* series copy/print controller.

This *EX2000* has up to 8 separate Price Lines to allow for the charging of black and white copies, color copies, and large paper sizes. For Staff Copies, the EX2000 has an external keypad to allow User and Supervisor copies at no charge via a PIN. In addition, the user may also utilize the Bypass Key option for Staff Copies.

The EX2000 is also equipped with a serial interface to allow for communication with Print Management Software and an external printer for reports and meter readings. This interface allows the EX2000 to be field programmable for software updates.

The EX2000 series is available in a variety of configurations including coin, bill, and credit card options.

The EX2000 Series vending system will accept any combination of nickels, dimes, quarters, or dollar coins, as well as \$1, \$5, \$10, and \$20 bills. Insert coins through the top of the unit and insert bills in the slot on the front of the housing. Once the money is deposited, the display shows the dollar amount available, also known as *ESCROW* Amount. For normal operation, when the escrow amount is greater than or equal to a given Price Line the EX2000 will enable that feature on the Copier. The EX2000 receives signals from the copier that indicate a copy has been made and at what Price Line to charge. The copy is then metered by the EX2000, and a new escrow value is calculated, in addition, Price Lines are re-assessed for validity. Up to 8 distinct price lines are supported depending on copier or MFP. Our coin-op is interfaced to. Press *EJECT* or the coin return plunger to dispense remaining balance.

Staff Copies

Staff Copies are available using the Bypass key, Supervisor PIN, or User PIN. As copies are made in any of these modes, the EX2000 meters each copy and provides reports to verify usage.

Setup

Unpacking the Vending System

The following equipment is included in your **EX2000 Series** shipment:

- EX2000 Series vending unit
- 7000EFS Stand
- Parts in the Boxes include:
 - Operation and Service Manual Flier
 - 24V Power Supply
 - Operator Keys (Bypass/Door/Cashbox)
 - Bolt Pack and Wrench for mounting the EX2000 to the pedestal stand
 - H20-Interface Harness (If applicable / Copier Specific)
 - Interface Installation Instructions

Physical Mounting

Your ACDI Vending System will mount easily to the stand designed and offered by ACDI or it can mount to the wall, or cabinet. If mounting to a wall or cabinet, route all cabling through the cutouts at the bottom.

Power-up

When powering on the **EX2000 Series**, the display will read "Initializing Coin-op 4.68" If the unit is new and coins are not loaded into the Coin Changer, the LCD Display will read as follows:

"Please Use Exact Change"
"B&W \$0.10"
"Color \$0.50"

After loading coins into the **EX2000 Series**, the LCD Display will read as follows:

"Please Insert Coin or Bill"
"B&W \$0.10"
"Color \$0.50"

Please refer to "ADJUSTING WELCOME SCREENS" for information on editing Text and the Amount of Time the screen is displayed.

Loading Coins

- **Loading Coins using Bypass Key (PREFERRED OPTION)**
 - Ensure the Bypass Key has been set to "Enabled" before moving to the next step. (See Page 24)
 - Ensure the Pricing is scrolling on the screen. (Welcome Screen)
 - Begin dropping coins in the coin slot until desired amount is inserted, or coin tubes are full.
 - Turn the Bypass Key to the ON position. (Horizontal) Screen will read "Supervisor Count: 0"
- **Loading Coins using Manual Fill Mode (Secondary Option)**
 - Enter 8-digit supervisor pin number (DEFAULT - 73784230)
 - Press *FWD* until display reads "Manual Fill Mode"
 - Press *ENTER*, and the screen will read "Press Enter to Begin"
 - Press *ENTER* and begin loading the coins through the Coin Insert slot on top of the **EX2000 Series** vending system (The system will automatically sort and store the currency)
 - When complete, press *ENTER* to save in memory

FOR ACCURATE REPORTS: DO NOT LOAD COINS DIRECTLY INTO THE COIN TUBES.

Coin Tube Capacity (Coinpro 3 - 3 Tube Coin Changer ONLY)

	5¢ tube	10¢ tube	25¢ tube	
				LO 25¢
Low Sensor Level	7(35¢)	9(90¢)	7(\$1.75)	7(\$1.75)
Full Sensor Level	78(\$3.90)	113(\$11.30)	77(\$19.25)	22(\$5.50)
Hand Load Level	86(\$4.30)	125(\$12.50)	95(\$23.75)	95(\$23.75)

Selecting the Copier Type

The **EX2000 Series** has several preconfigured settings for Copier Type. In Default mode, the **EX2000 Series** interfaces with most B&W copiers and printers. Choose the copier from the list that most closely matches your model copier. This will adjust the prices and screens to reflect the newly selected copier model. Specific Interface Instructions are included with each order and better explain the interface to the MFP.

Changing the Copier Type

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER*. display reads “Service Mode”
3. Turn the Bypass Key to the “On” position (Horizontal)
4. Press *ENTER* to select “Service Mode”
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER* to select the Setup Menu
7. Press *FWD* until display reads “Select Copier”
8. Press *ENTER*, display will read “Copier Default” (Or, current copier type)
9. Press *ENTER* and a flashing cursor will appear
10. Press *FWD* or *BACK* to change the copier type
11. Once display shows your preferred Copier Type, press *ENTER* to save
12. Press *EXIT* 2 times followed by *EJECT* to exit the Service Mode
13. Turn the Bypass Key off

Setting Copy Prices

The EX2000 series allows a wide array of pricing options based on the copier or MFP connected as well as the ability to charge different prices based on the type of currency source being used.

Setting Prices

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (horizontal)
5. Press *FWD* until display reads “Price Menu”
6. Press *ENTER*, then display will read “Edit Prices Cash Customers”
7. Press *FWD* until display shows price group you want to edit.
8. Press *ENTER*, then display will read “Cash Customers Price 1 \$0.10”, or whatever Price Line 1 has been programmed for
9. Press *ENTER* to Edit Price 1 (cursor will appear on the display)
10. Using the keypad enter the new price per copy and press *ENTER* to save
11. Press *FWD* to edit Price Line 2 and follow steps 6-8

PRICE LINE PRICING EXAMPLE

Price Line Chart for Default B&W and Default Color copier types **ONLY**.

EX2000 Price Menu		Price Label (Example)
Price 1	\$0.10	B&W
Price 2	\$0.50	Color
Price 3	\$0.20	B&W Premium Paper
Price 4	\$0.20	B&W Duplex
Price 5	\$0.40	B&W Premium Paper Duplex
Price 6	\$0.60	Color Premium Paper
Price 7	\$1.00	Color Duplex
Price 8	\$1.20	Color Premium Paper Duplex

PLEASE NOTE:

The Price Lines will vary by copier model and brand. (Xerox, Konica Minolta, Kyocera, Sharp, Canon, Etc.) In order to ensure prices are set correctly, refer to the instructions provided with your copier interface harness.

Minimum Vend Setting

The Minimum Vend setting is the smallest amount that must be entered to enable the copier or MFP. By having this setting independent from the price lines, the EX2000 series can force a patron to deposit enough money to cover all vend options on copiers that do not give advanced signaling for color, duplex, and paper size options. (This setting is separate from Minimum Credit Vend and applies to ALL transactions. For the Minimum Credit Vend setting, see page 27)

Adjusting the Minimum Vend:

1. Enter Supervisor PIN – (Default 73784230)
2. Press **ENTER** display reads “Service Mode”
3. Press **ENTER** to select “Service Mode”
4. Turn the Bypass key to “ON” position (horizontal)
5. Press **FWD** until display reads “Price Menu”
6. Press **ENTER**, then display will read “Edit Prices Cash Customers”
7. Press **FWD** until display reads “Edit Prices Minimum Vend”
8. Press **ENTER**, then display will read “Minimum Vend Price 0.00”.
9. Press **ENTER** to Edit Price (cursor will appear on the display)
10. Using the keypad enter the new price and press **ENTER** to save.
11. Press **EXIT** 2 times followed by **EJECT** to exit the Service Mode.

Setting the Maximum Refund

The EX2000 series maximum refund setting requires a patron to continue making copies until the escrow balance goes below this setting. This ensures that the EX2000 is not required to give out excessive change when larger paper currency denominations are used.

Adjusting the Maximum Refund:

1. Enter Supervisor PIN – (Default 73784230)
2. Press **ENTER** display reads “Service Mode”
3. Press **ENTER** to select “Service Mode”
4. Turn the Bypass key to “ON” position (horizontal)
5. Press **FWD** until display reads “Price Menu”
6. Press **ENTER**, then display will read “Edit Prices Cash Customers”
7. Press **FWD** until display reads “Edit Prices Maximum Refund”
8. Press **ENTER**, then display will read “Maximum Refund Price \$20.00”.

9. Press *ENTER* to Edit Price (cursor will appear on the display)
10. Using the keypad enter the new price and press *ENTER* to save.
11. Press *EXIT* 2 times followed by *EJECT* to exit the Service Mode.

Setting the Maximum Escrow

The EX2000 series maximum escrow setting disables the bill and coin acceptor once the escrow balance goes above this setting. This prevents patrons from placing too much money into the vending tower.

Adjusting the Maximum Escrow:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (horizontal)
5. Press *FWD* until display reads “Price Menu”
6. Press *ENTER*, then display will read “Edit Prices Cash Customers”
7. Press *FWD* until display reads “Edit Prices Maximum Escrow”
8. Press *ENTER*, then display will read “Maximum Escrow Price \$20.00”.
9. Press *ENTER* to Edit Price (cursor will appear on the display)
10. Using the keypad enter the new price and press *ENTER* to save.
11. Press *EXIT* 2 times followed by *EJECT* to exit the Service Mode.

Identifying the Firmware Version

The **EX2000 Series** provides the ability to do on-site firmware upgrades (Refer to the RS232 Interface Section). To know whether your machine requires an upgrade, you can check to see which Version is currently loaded on your **EX2000** by following the instructions below.

Show EX2000 Firmware Version

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (horizontal)
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER* to select Setup Menu
7. Press *FWD* until display reads “Other Settings”
8. Press *ENTER*; display will read “Coin-Op X.XX” (current version #)
9. Press *EXIT* 2 times followed by *EJECT* to exit the Service Mode.

Features

Electronic Changer and Bill Acceptor

The electronic changer features nickel, dime, and quarter payout along with electronic interface featuring MDB. Reliable 3-tube changer offers enhanced electronics in the acceptance of dollar coins as well.

The Bill Acceptor series accepts \$1, \$5, \$10, and \$20 bills along with electronic interface featuring MDB. With the new bill path clearing software routine, the Acceptor has significant transport reliability

Key Benefits

- Expandable programmable memory for easy updates.
- Patented Coin Sensing technology for resistance to counterfeiting
- Changer capacity of \$40.55 in nickel, dime, and quarter payout.
- On site field programming.
- Innovative Flexstack bill box expands to hold up to 650 bills.
- Resists counterfeiting by subjecting each bill to two types of test unlike any other bill acceptor.
- Flash programmable microcontroller, simplified upgrades for future feature additions.
- Resists cheating and vandalism.

RS232 Serial Interface

With the addition of a RS232 serial interface, the EX2000 series has expanded areas of use and has eased the hassle of upgrades and service. This standard 9-pin serial connector allows the EX2000 to interface with software applications as well as ACDI's Bootloader program. The Bootloader program allows users to reload the software onto the unit. Some software applications may require a different protocol than the default setting of Serial Port Type I. Type I is used for PaperCut software applications. If you are using software other than PaperCut, you may need to use the Type II settings to communicate with the PC. To make this change follow the instructions below.

Changing the Serial Port Type

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until the display reads "Configure Serial Port"
8. Press *ENTER*; the display will read "Serial I/O Type I"
9. Press *ENTER*, and the cursor will appear
10. Press *FWD* to change to "Type II"
11. Press *ENTER* to save.
12. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode

Credit Card Device

The Credit Card device used on the EX2000 can be used to charge using a debit or credit card, as well as Google or Apple Pay. The device's features can vary depending on customer needs. The default device offers patrons the opportunity to pay for transactions using a debit or credit card by swiping or tapping the card.

PLEASE NOTE: The credit card device will not function properly without an account set up through the device's manufacturer. Please see the flier included with your EX2000 for more information

Programming your EX Series Vending System

Overview

Your **EX2000 Series** Vending System provides numerous levels of customization. **With the Bypass key or Operators Key in the "On" position and an Active Supervisor Pin Number**, the following features are programmable within the Service Mode:

- *Setting the Price per Copy*
- *Amount of Time each welcome screen appears on the display*
- *Text for 2 of the 4 welcome screens are editable on the display*
- *Supervisor and User Pin Numbers (Default Supervisor Pin is 73784230)*
- *Delay Settings*
- *Assigning Supervisor and User PIN Numbers*

Assigning Supervisor and User PIN Numbers

Pin Menu

100 User and 25 Supervisor PIN numbers are programmable within the **EX2000 Series** vending system. This feature provides multiple users' access to "Staff Copies" and gives control and accountability to the Owner by recording the number of copies per User or Supervisor. Therefore, you have vending and account management all in one machine. To view PIN usage, refer to the METERS MENU.

Adding User PIN Numbers

13. Enter Supervisor PIN – (Default 73784230)
14. Press *ENTER* display reads "Service Mode"
15. Press *ENTER* to select "Service Mode"
16. Turn the Bypass key to "ON" position (horizontal)
17. Press *FWD* until display reads "PIN Menu"
18. Press *ENTER*; display will read "User PIN"
19. Press *ENTER*; display will read "Add User"
20. Press *ENTER*; display will read "Begin Entering PIN"
21. Enter the desired PIN (6 Digit Max) Note: **A longer PIN is more secure.**
22. Press *ENTER*, display quickly flashes "Adding PIN", "PIN Added" then defaults to "Begin Entering PIN"
23. Repeat steps 8 and 9 until all desired PINs are added.
24. Press *EXIT*, display will read "Add User"
25. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Clearing User PIN Numbers

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Turn the Bypass key to "ON" position (horizontal)
4. Press *ENTER* to select "Service Mode"
5. Press *FWD* until display reads "PIN Menu"
6. Press *ENTER*; display will read "User PIN"
7. Press *ENTER*; display will read "Add User"
8. Press *FWD* until display reads "Clear PIN"
9. Press *ENTER*; display will read "Begin Entering PIN"
10. Enter up to 6-digit PIN that you want to delete and press *ENTER*
11. Display will read, "Are you sure?"
12. Press *ENTER*, display quickly flashes "Deleting PIN" and defaults to "PIN Deleted"
13. Press *EXIT*, display will read "Clear PIN" and follow steps 7-10 to delete additional PINs
14. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Adding Supervisor PIN Numbers

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Turn the Bypass key to “ON” position (horizontal)
4. Press *ENTER* to select “Service Mode”
5. Press *FWD* until display reads “PIN Menu”
6. Press *ENTER*; display will read “User PIN”
7. Press *FWD* until display reads “Supervisor PIN”
8. Press *ENTER*; display will read “Add Supervisor”
9. Press *ENTER*; display will read “Begin Entering PIN”
10. Enter up to 6-digit PIN that you want to add. **Note: Longer pin numbers are more secure.**
11. Press *ENTER*, display quickly flashes “Adding PIN”, “PIN Added” then defaults to “Begin Entering PIN”
12. Press *EXIT*, display will read “Add Supervisor” and follow steps 7-8 to add additional PINs
13. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Clearing Supervisor PIN Numbers

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Turn the Bypass key to “ON” position (horizontal)
4. Press *ENTER* to select “Service Mode”
5. Press *FWD* until display reads “PIN Menu”
6. Press *ENTER*; display will read “User PIN”
7. Press *FWD* until display reads “Supervisor PIN”
8. Press *ENTER*; display will read “Add Supervisor”
9. Press *FWD* until display reads “Clear PIN”
10. Press *ENTER*; display will read “Begin Entering PIN”
11. Enter the 8-digit PIN that you want to delete and press *ENTER*
12. Display will read, “Are you sure?”
13. Press *ENTER*, display quickly flashes “Deleting PIN” and defaults to “PIN Deleted”
14. Press *EXIT*, display will read “Clear PIN” and follow steps 9-12 to delete additional PINs
15. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Adjusting the Welcome Screens

Edit Text on the Display

You can adjust the text that is displayed on Screens 1 through Screens 12 by following the steps below:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Turn the Bypass key to “ON” position (horizontal)
4. Press *ENTER* to select “Service Mode”
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER*, then screen will display “Cash Settings”
7. Press *FWD* until display reads “Edit Welcome Screens”
8. Press *ENTER*, then screen will display “Edit Screen 1”
9. Press *FWD* until display reads “Edit Screen 2” or the number of the desired screen to be edited.
10. Press *ENTER*, then screen will read “Edit Text”
11. Press *ENTER*, then screen will display “Color \$0.50”
12. Press *ENTER*, then screen will display a line under the first character on the screen “Color \$0.50”
13. Pressing *FWD*, the character currently underlined will change to the next valid character “Dolor \$0.50”
14. Pressing *BACK*, the character currently underlined will change to the prior valid character “Color \$0.50”
15. Pressing 6 will switch the underlined cursor to the right
16. Pressing 4 will switch the underlined cursor to the left
17. Pressing 8 will move the underlined cursor down
18. Pressing 2 will move the underlined cursor up

19. Pressing 0 will delete the underlined character.
20. Pressing 5 will clear the text from the whole screen.
21. Pressing *FWD* and *BACK* to edit the character.
22. Pressing 7 and 9 to edit the character from lower case to upper case.
23. Press *ENTER* to disable editing.
24. Press *EXIT*, then screen will display "Edit Text"
25. Press *EXIT*, then screen will display "Edit Screen 2"
26. Press *FWD* to edit other screens and follow steps 9-22

Note: Welcome Screens 1 through 8 are automatically set to price lines 1 through 8 respectively. Therefore, all but the lower right 7 characters are editable.

Edit Time Each Screen is Displayed

You can adjust the time that each welcome screen is displayed by following the steps below:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Turn the Bypass key to "ON" position (horizontal)
4. Press *ENTER* to select "Service Mode"
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*, then screen will display "Cash Settings"
7. Press *FWD* until display reads "Edit Welcome Screens"
8. Press *ENTER*, then screen will display "Edit Screen 1"
9. Press *ENTER*, then screen will read "Edit Text"
10. Press *FWD* until the display reads "Edit Time"
11. Press *ENTER*, then screen will display "Time 2" (**Default is 2 sec.**)
12. Press *ENTER*, the cursor will blink
13. Pressing *FWD* will increase the value.
14. Pressing *BACK* will decrease the value.
15. Press *ENTER* to lock in value.
16. Press *EXIT*, then screen will display "Edit Time"
17. Press *EXIT*, then screen will display "Edit Screen 1"
18. Press *FWD* to edit Welcome Screen 2 and follow steps 8-16

Meters Menu

The **EX2000 Series** allows you to track revenue by reading and recording meter amounts shown on the display or printing a hard copy to a portable *SKT40 dot Matrix Printer*.

The meter readings show the total number of copies made and paid for, as well as the number of "Bypass" copies. These meters are resettable, preventing you from having to dictate the current copy count.

Our unit also offers a persistent total clicks meter. This number is non-resettable and will continue to increment for the life of the product. This meter is useful as an added form of accountability to the copier and coin-op resettable counters.

View Meters Menu

1. Enter Supervisor PIN - (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Press *FWD* until display reads "Meters Menu"
5. Press *ENTER*; display will read "Read Meters"
6. Press *FWD* to scroll through options:
 - a. Read Meters
 - i. Cash Customers – Displays paid copies per copy type or price line
 - ii. User – Displays number of copies made per PIN Account
 - iii. Supervisor – Displays number of copies made per SUPERVISOR Account
 - iv. Total – Displays total number of *metered* copies

- v. Persistent Total – Displays total number of *metered* copies for life of product.(NONRESETTABLE)
- b. Print Meters
- c. Clear Meters

Reading Meters

1. Follow steps 1-5 from “View Meters Menu” above.
2. Press *ENTER*; display will read “Read Groups”
3. Press *ENTER*; display will read “Read Cash Customers”
4. Press *ENTER*; display will read “Cash Customers Price1 #”
5. Press *FWD* to scroll through the options:
 - a. Cash Customers Price 1 #
 - b. Cash Customers Price 2 #
 - c. Cash Customers Price 3 #
 - d. Cash Customers Price 4 #
 - e. Cash Customers Price 5 #
 - f. Cash Customers Price 6 #
 - g. Cash Customers Price 7 #
 - h. Cash Customers Price 8 #
 - i. Cash Customers Total #
6. Press *EXIT* 2 times until display reads “Read Groups”
7. Press *FWD*, display will read “Read User”
8. Press *ENTER*; the first User Account will appear:
 - a. 123456 #
9. Press *FWD* to scroll through each User Account
10. Press *EXIT*, display will read “Read Groups”
11. Press *FWD* until display reads “Read Supervisor”
12. Press *ENTER*; the first Supervisor Account will appear:
 - a. 73784230 (Default Supervisor PIN)
13. Press *FWD* to scroll through each Supervisor Account
14. Press *EXIT*, display will read “Read Groups”
15. Press *FWD* until display reads “Read Total”
16. Press *ENTER*; display will read “Total #”

Printing Meters

To print, you must have an *ACDI certified Serial Printer* with a printer cable.

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn Bypass key to “ON” position (horizontal)
5. Press *FWD* until display reads “Meters Menu”
6. Press *ENTER*; display will read “Read Meters”
7. Press *FWD*, display will read “Print Meters”
8. Press *ENTER*; display will read “Press Enter To Print”
9. Press *ENTER* to print, display will read “Printing” while in process and default back to “Press Enter To Print”
10. Press *EXIT*, display will read “Read Meters”

Meters Ticket Print Out Example

Group Meters

Cash Customers

Price1 Meter: 0
 Price1 Cost: \$ 0.10
 Price2 Meter: 1
 Price2 Cost: \$ 0.50
 Price3 Meter: 0
 Price3 Cost: \$ 0.20
 Price4 Meter: 2
 Price4 Cost: \$ 0.20
 Price5 Meter: 1
 Price5 Cost: \$ 0.40
 Price6 Meter: 0
 Price6 Cost: \$ 0.60
 Price7 Meter: 0
 Price7 Cost: \$1.00
 Price8 Meter: 0
 Price8 Cost: \$ 1.20

Total Meters: 4
 Cash Value: \$ 1.30

Users

Price1 Meter: 5
 Price1 Cost: \$ 0.10
 Price2 Meter: 13
 Price2 Cost: \$ 0.50
 Price3 Meter: 4
 Price3 Cost: \$ 0.20
 Price4 Meter: 5
 Price4 Cost: \$ 0.20
 Price5 Meter: 2
 Price5 Cost: \$ 0.40
 Price6 Meter: 10
 Price6 Cost: \$ 0.60
 Price7 Meter: 5
 Price7 Cost: \$ 1.00
 Price8 Meter: 6
 Price8 Cost: \$ 1.20

Total Meters: 50
 Cash Value: \$ 27.80

Supervisors

Price1 Meter: 7
 Price1 Cost: \$ 0.10
 Price2 Meter: 6
 Price2 Cost: \$ 0.50
 Price3 Meter: 7
 Price3 Cost: \$ 0.20
 Price4 Meter: 3

Price4 Cost: \$ 0.20
 Price5 Meter: 5
 Price5 Cost: \$ 0.40
 Price6 Meter: 3
 Price6 Cost: \$ 0.60
 Price7 Meter: 3
 Price7 Cost: \$ 1.00
 Price8 Meter: 12
 Price8 Cost: \$ 1.20

Total Meters: 46
 Cash Value: \$ 26.90

Total Pages Metered: 100
 Total Cash Value: \$ 56.00

Supervisor PIN Account Meters
ACD00000 - - No Usage

73784230

Price1 Meter:	7
Price2 Meter:	6
Price3 Meter:	7
Price4 Meter:	3
Price5 Meter:	5
Price6 Meter:	3
Price7 Meter:	3
Price8 Meter:	12

Total Meters	46
Cash Value:	\$
	26.90

User PIN
Account Meters
123456

Price1 Meter:	5
Price2 Meter:	13
Price3 Meter:	4
Price4 Meter:	5
Price5 Meter:	2
Price6 Meter:	10
Price7 Meter:	5
Price8 Meter:	6

Total Meters:	50
Cash Value:	\$
	27.80

Clearing Meters in the Meters Menu

Clearing Meters resets the copy counts for Cash Customers, USERS and SUPERVIORS. It is useful to clear meters after you have reconciled copies-to-cash and have printed the records on the *SKT-40 Dot Matrix Printer*, enabling a good starting point for the next recording period.

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Press *FWD* until display reads “Meters Menu”
5. Press *ENTER*; display will read “Read Meters”
6. Press *FWD* until display reads “Clear Meters”
7. Press *ENTER* 2 time to select Clear Meters, display will read “Press Enter To Clear”
8. Press *ENTER* to clear, display will read, “Are you sure?”
9. Press *ENTER* to select continue clearing, display will read “Clearing” while in process and default back to “Meters Clear”
10. Press *EXIT* 2 times followed by *EJECT* to exit out of the Service Mode and to return to the default Idle Screen

Cash Reconciliation Report	
Nickels	\$ 0.20
Dimes	\$ 0.90
Quarters	\$ 0.75
Dollar Coin	\$ 0.00
Ones	\$ 4.00
Fives	\$ 20.00
Tens	\$ 40.00
Twenties	\$ 80.00
Cash Box	\$ 325.55
Total:	\$ 471.40
Coin Tubes:	\$ 1.85
Cash Box:	\$ 325.55
Bill Stacker:	\$ 144.00

Cash Reconciliation Menu

Print Reconcile Reports

Illustration 1.02

Print Reconciliation Report by attaching an *SKT40-Dot Matrix Printer* to the EX2000 series vending system and follow the instructions below:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Press *FWD* until display reads “Reconcile Menu”
5. Press *ENTER*; display will read “Print Reports”
6. Press *ENTER*; display will read “Press Enter to Print”
7. Press *ENTER* to print, display will read “Printing” while in process and default back to “Print Report”

Removing Cash

With the door of the EX2000 open, use the key to open the cash box. Remove the coins and place the cash box back into the EX2000 cabinet. Next, remove the Bill Stacker and extract the bills.

Resetting Cash Box and Bill Stacker Totals

Resetting Cash Box and Bill Stacker totals provides a starting point without having to add or subtract beginning totals from one period to the next. We advise you to reset the totals after each reconciliation period. Once the change and bills are removed, and reconciled, reset the Cash Box and Bill Stacker amounts to \$0.00 by following these instructions:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Press *FWD* until display reads “Reconcile Menu”
5. Press *ENTER*; display will read “Print Report”
6. Press *FWD* until display reads “Clear Totals”
7. Press *ENTER*; display will read “Clear Cash Box”
8. Press *ENTER*; display will read “Confirm Clear? Cash Box”
9. Press *ENTER* to clear cash box, screen returns to “Clear Totals”
10. Press *ENTER*; display will read Clear Cash Box”
11. Press *FWD* until display reads “Clear Bill Stacker”
12. Press *ENTER*; display will read “Confirm Clear? Bill Stacker”
13. Press *ENTER* to clear bill stacker, screen returns to “Clear Totals”
14. Press *EXIT* followed by *EJECT* to return to the main Idle Screen.

After printing the Meter Reports and the Cash Reconciliation Report, compare the physical cash with the total from the Reconciliation Report.

Reconciliation Report Total = (Total Physical Cash – Initial Balance)

PLEASE NOTE: Always document your beginning cash balance.

The “Cash Reconciliation Report” shows the total amount of money stored inside the EX2000.

Editing and Reading Cash Settings

The **EX2000 Series** vending system allows you to view and edit the amount of change residing in the coin tubes. This is useful when the coins are loaded into the tubes from the back of the unit and not using the Bypass Fill or Manual Fill modes. (**PLEASE NOTE: Loading the coins directly into the coin tubes IS NOT recommended**) If there is not enough change in the tubes, the display will read “Please Use Exact Change”. If there are coins in the tubes and the display reads “Please Use Exact Change”, go to Cash Settings and check how much money is shown for Nickels, Dimes, and Quarters. If the amount in the system differs from the amount in the tubes, you can change the value in the Cash Settings Menu by following these instructions:

Editing Cash Settings

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (Horizontal)
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER*; display will read “Cash Settings”
7. Press *ENTER*; display will read “Nickels \$###. ##”
8. Press *ENTER* to edit the value, and a cursor will appear with a value of \$000.00 will appear
9. Enter the dollar amount in Nickels currently in the coin tubes and press *ENTER* to save this value
10. Press *FWD*, display will read “Dimes \$###. ##”
11. Repeat steps 7-8 to modify the current balance in Dimes
12. Press *FWD*, display will read “Quarters \$###. ##”
13. Repeat steps 7-8 to modify the current balance in Quarters
14. Press *FWD*, display will read “Dollar Coins \$###. ##”
15. Repeat steps 7-8 to modify the current balance in Dollar Coins (Standard Changers do NOT store Dollar Coins, they are deposited directly to the Cash Box)

View Cash Settings

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Press *FWD* until display reads “Setup Menu”
5. Turn the Bypass key to “ON” position (Horizontal)
6. Press *ENTER*; display will read “Cash Settings”
7. Press *ENTER*; display will read “Nickels \$###. ##”
8. Press *FWD* to scroll through the following Cash Settings:
 - a. Nickels (editable)
 - b. Dimes (editable)
 - c. Quarters (editable)
 - d. Dollar Coin (editable)
 - e. Cash Box
 - f. Ones
 - g. Fives
 - h. Tens
 - i. Twenties

Records Menu

Print Records Report

Print Security Records Report by attaching an *Serial Receipt Printer* to the EX2000 series vending system and follow the instructions below:

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (Horizontal)
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER*; display will read “Cash Settings”
7. Press *FWD*, until display reads “Records Menu”
8. Press *ENTER*; display will read “Print Pin Records”
9. Press *ENTER* to print, display will read “Printing” while in process and default back to “Print Pin Records”

Enabling or Disabling the Keypad

For security reasons, the **EX2000 Series** vending system provides the ability to activate or deactivate the keypad. It is ENABLED by default. Once the keypad is disabled, entering Service Mode or unlocking the MFP using a PIN is not possible without the Bypass Key. The keypad will not respond to key entries without the Bypass Key.

Turning Keypad ON or OFF

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads “Service Mode”
3. Press *ENTER* to select “Service Mode”
4. Turn the Bypass key to “ON” position (Horizontal)
5. Press *FWD* until display reads “Setup Menu”
6. Press *ENTER*; display will read “Cash Settings”
7. Press *FWD* until display reads “Other Settings”
8. Press *FWD* until display reads “Keypad Enabled”
9. Press *ENTER*, will toggle between Enabled and Disabled
10. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode and return to the main Idle Screen

Entering Service Mode with the Keypad Disabled and Bypass Key Disabled

1. Turn the Bypass key to "ON" position (Horizontal)
2. Enter Supervisor PIN – (Default 73784230)
3. Press *ENTER* display reads "Service Mode"
4. Press *ENTER* to select "Service Mode"
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until display reads "Keypad Enabled"
9. Press *ENTER* until setting changes to "Enabled".
10. Press *EXIT* 2 Times, then *EJECT*
11. Turn off the Bypass Key

Entering Service Mode with the Keypad Disabled and Bypass Key Enabled

1. Turn the Bypass key to "ON" position (Horizontal)
2. Screen will read "Supervisor Count: 0"
3. Press *EJECT*; display reads "Service Mode"
4. Press *ENTER* to select "Service Mode"
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until display reads "Keypad Disabled"
9. Press *ENTER* until setting changes to "Enabled".
10. Press *EXIT* 2 Times, then *EJECT*
11. Turn off the Bypass Key

Bypass Key Settings

When the Bypass Key is ON, a PIN is not required for copying. ACDI advises use of supervisor or user pin accounts instead of key bypass for security reasons. To change the Bypass Key Setting, follow the steps below:

Enabling the Bypass Key

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (Horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until display reads "Key Bypass Enabled" (Current setting will be displayed)
9. Press *ENTER* to toggle between Enabled and Disabled
10. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Enabling Online Accounts

The EX2000 series coin-op has the ability to interface with several software options and provide online pin user accounts for vending of copies.

Turning the Online Accounts ON or OFF

1. Enter Supervisor Pin – 73784230
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (Horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"

7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until display reads "Online Accounts Enabled" (Current setting will be displayed)
9. Press *ENTER* to toggle between Enabled and Disabled
10. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode.

Enabling Hidden Pins Mode

The EX2000 series coin-op has the ability to hide the display of pins as entered on the top keypad. This added security feature allows for discrete entering of access pins in public venues.

Turning the Hidden Pins Mode ON or OFF

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (Horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until display reads "Hidden Pins Mode Enabled" (Current setting will be displayed)
9. Press *ENTER* to toggle between Enabled and Disabled
10. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode and return to the main Idle Screen

Minimum Credit Card Purchase

The EX2000, when equipped with a credit card device, has the ability to set a minimum purchase price when charging using the device. This setting can ensure that small transactions do not occur, keeping banking fees to a minimum. When the total transaction cost is below the Minimum Credit Vend amount, the patron will still be charged whatever that amount is set to.

PLEASE NOTE: The lowest Minimum Credit Vend can be set to is \$0.20.

Setting the Minimum Credit Vend

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (Horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Other Settings"
8. Press *FWD* until the display reads "Min Credit Vend \$00.00".
9. Enter the value desired then press *ENTER*.
10. Press *EXIT* 3 times followed by *EJECT* to exit the Service Mode and return to the main Idle Screen

Delay Settings

Disable Delay

This setting determines how long the *EX2000* waits before disabling the copier.

1. Enter Supervisor PIN – (Default 73784230)
2. Press *ENTER* display reads "Service Mode"
3. Press *ENTER* to select "Service Mode"
4. Turn the Bypass key to "ON" position (Horizontal)
5. Press *FWD* until display reads "Setup Menu"
6. Press *ENTER*; display will read "Cash Settings"
7. Press *FWD* until display reads "Delay Menu"
8. Press *ENTER*; display will read "Disable Delay 25 mSec" (Default Disable Delay is 25 mSec)
9. Press *ENTER* to edit Disable Delay, and a flashing cursor will appear
10. Press *FWD* to increase the delay or press *BACK* to decrease the delay

11. Press *ENTER* to save your new delay
12. Press *EXIT*, display will read "Delay Menu"

Blind Time

This setting determines how long the *EX2000* waits before accepting another copy charge pulse.

Useful when more than one charge is made per copy, this setting can correct the problem. By extending the Blind Time, the *EX2000* can ignore additional pulses.

1. Follow steps 1 thru 7 from "Disable Delay" above
2. Press *FWD* until display reads "Blind time 250 mSec" (Default Blind Time is 250 mSec)
3. Press *ENTER* to edit Blind Time, and a flashing cursor will appear
4. Press *FWD* to increase Blind Time or press *BACK* to decrease blind time
5. Press *ENTER* to save your new Blind Time
6. Press *EXIT*, display will read "Delay Menu"

Card Time Out

This setting determines how long the *EX2000* will sit idle after a credit card has been swiped and a transaction has been made.

1. Follow steps 1 thru 7 from "Disable Delay" above
2. Press *FWD* until display reads "Card Time Out 00Hrs:30min:00sec" (Default Card Time Out is 30 sec.)
3. Press *ENTER* to edit Card Time Out and a flashing cursor will appear
4. Press *FWD* to increase Card Time Out or press *BACK* to decrease Card Time Out
5. Press *ENTER* to save your new Card Time Out
6. Press *EXIT*, display will read "Delay Menu"

Pin Time Out

This setting determines the amount of time the *EX2000* displays a balance of "\$0.00" before returning to the Idle Menu.

1. Follow steps 1 thru 6 from "Disable Delay" above
2. Press *ENTER*; display will read "Disable Delay"
3. Press *FWD* until display reads "Pin Time Out 00hrs:05min:00sec" (Default Blind Time is 5 min.)
4. Press *ENTER* to edit Pin Time Out and a flashing cursor will appear
5. Press *FWD* to increase Pin Time Out or press *BACK* to decrease Pin Time Out
6. Press *ENTER* to save your new Pin Time Out
7. Press *EXIT*, display will read "Delay Menu"

Force Vend

This setting determines whether a copy must be made prior to ejecting change. If Force Vend is turned **ON** a copy must be made prior to ejecting change. If Force Vend is turned **OFF** change can be given without making a copy. The default setting for Force Vend is ON.

Changing the Force Vend Setting

7. Enter Supervisor PIN – (Default 73784230)
8. Press *ENTER* display reads "Service Mode"
9. Press *ENTER* to select Service Mode
10. Turn Bypass key to ON position (Horizontal)
11. Press *FWD* until the display reads "Setup Menu" and press *ENTER*
12. Press *FWD* until the display reads "Delay Menu" and press *ENTER*
13. Press *FWD* until you see the setting for Force Vend. The setting will be "ON" by default
14. Press *ENTER* to change to the desired setting
15. Press *EXIT* twice and then *EJECT*
16. Turn the Bypass Key to OFF

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