

# ***THE IM-1 BARCODE/B MECHANISM***

***SET UP AND OPERATION MANUAL***

***FOR SERVICE CALL  
1-800-795-8251***

***YOUR MECHANISM SERIAL # IS \_\_\_\_\_***



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# **THE IM-1BARCODE / B MECHANISM**

## **SET UP AND OPERATION MANUAL**

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## **SAFETY CONSIDERATIONS**

Unplug the mechanism when servicing – failure to do this could cause serious injury.

## **UNPACKING**

When the mechanism is received, it should be carefully unpacked and checked closely for any possible damage. If a freight company is involved and there is damage, please notify them immediately. They will need to thoroughly inspect the damage and fill out a report. Please **do not** touch the mechanism until this has been done.

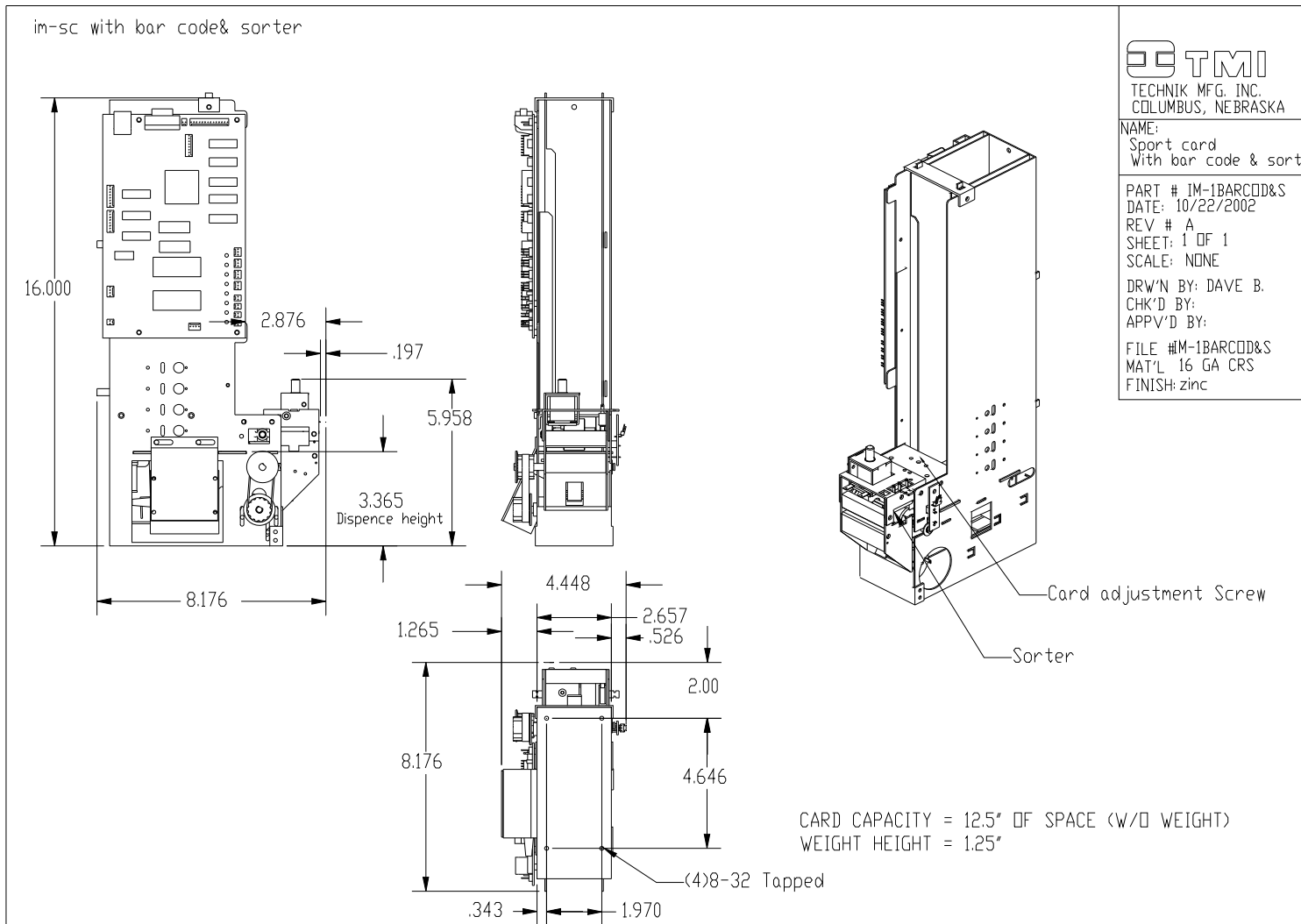
Please remove and save packing materials for later use.

## **STANDARD MACHINE PACKING LIST**

<b><u>QUANTITY</u></b>	<b><u>DESCRIPTION</u></b>
1	IM-1BARCODE/B mechanism
1	Hex driver (care package)
1	Card Weight
1	Card hook
1	Warranty certificate
1	Operation Manual

## MECHANISM MOUNTING

The recommend method of mounting the IM-1BARCODE/B mechanism is to use one rail on each side of the mechanism. The mechanism will easily slide into the rail slot and be mounted by four 8-32 screws on the front face of the mechanism. This system makes for easy installation and servicing if necessary. Other mounting options are available upon request.



## LOADING / UNLOADING CARDS

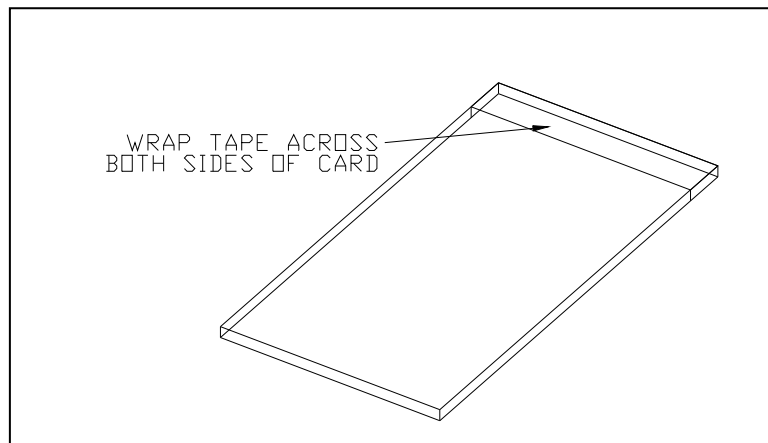
You are now ready to start loading your cards. The cards must be loaded such that the barcode is facing down and positioned to the left (when facing the mechanism). The card orientation is critical for operation of this mechanism. Once the cards are in place, place a weight on top of the stack. The weight should be in so that the word "FRONT" is facing you, right side up.

For unloading cards, a card hook is provided that allows for easy removal of the bottom-most cards.

# **CARD THICKNESS ADJUSTMENT PROCEDURE**

## **20 TO 30 MIL CARD ADJUSTMENT**

1. Using the hex driver (supplied in the care package), turn the adjustment screw on the dispensing mechanism counter-clockwise until a card will not pass the adjustment mechanism.
2. Place a "test card", tape first, in the bottom of the column you wish to adjust. To make a "test card" place (2) pieces of clear tape or (1) piece of electrical tape as shown below.



**TEST CARD**

3. Place the card weight on top of the card.

**BEFORE GOING ANY FURTHER, READ THE INSTRUCTIONS BELOW!!!**

4. Place the hex head wrench into the adjustment screw.
5. Try to dispense a card and turn the adjustment screw clockwise until a card is dispensed. It may take a few tries before a card is dispensed.
6. Once a card is dispensed, the column is properly adjusted.

## **10 MIL CARD ADJUSTMENT**

1. Follow the procedure described above (20 to 30 MIL CARD ADJUSTMENT) except use a standard 10 mil card (without the tape) for testing.

## **MECHANISM COMMUNICATION SPECIFICATIONS**

The IM-1BARCODE/B mechanism includes the following features as standard:

1. fully functional control board
2. barcode reader
3. card dispenser
4. necessary harnesses

The controller contains firmware to allow a host computer to control the card dispenser by issuing commands through a standard RS-232C serial interface. The communications format for the serial interface is 9600 Baud, 8 bits, no parity, one stop bit. Each message is terminated with a CRC of the message followed by the new-line character. Communication from the controller to the host will be in the form of a fixed format status message. The status message will be sent immediately upon receipt of a command from the host, or whenever a state change occurs on the controller (command completion, reset, and unexpected condition). Call the service number on the front of this manual for any questions.

## **REGULAR MAINTENANCE**

Mechanism Lubrication should not be necessary. Improper lubrication can result in machine malfunction.

# IM-1BARCODE/B CONTROL BOARD



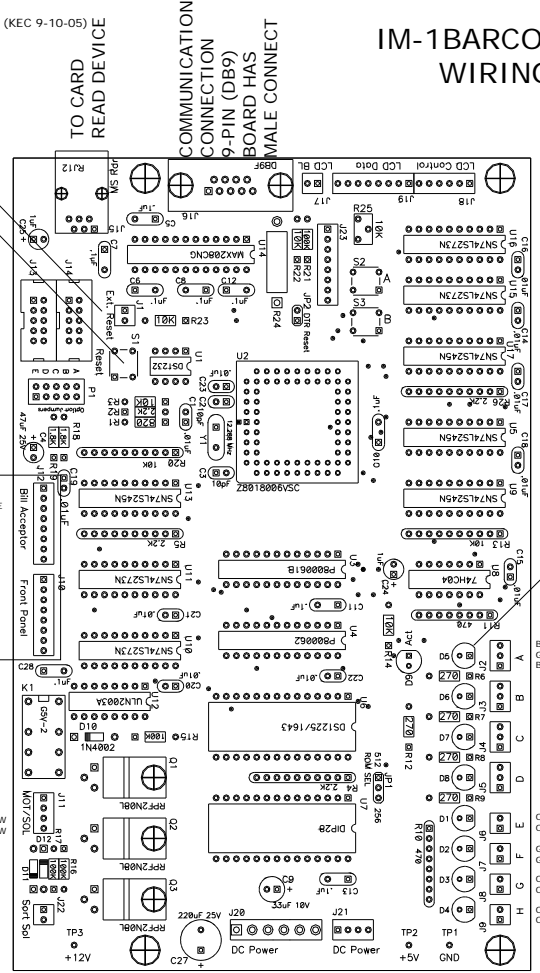
NAME: IM-1XXXB CONTROL BOARD WIRING DIA.  
 PART # 110-022  
 DATE: 10/22/2002  
 REV # A  
 SHEET: 1 OF  
 SCALE: NONE  
 DRW'N BY: KEC  
 CHK'D BY:  
 APP'VD BY:  
 FILE #  
 MAT'L  
 FINISH:

## IM-1BARCODE/B CONTROL BOARD WIRING DIAGRAM

REVISION HISTORY:  
 (B) CHANGED CONNECTOR STYLE AT POWER CONNECTION (KEC 9-10-05)

HARD RESET SWITCH  
 HARD RESET BUTTON

- BA PULSE
  - GROUND
  - COIN PULSE
  - GROUND
  - BA ENABLE
  - +5 VDC
  - BA ERROR
  - +12 VDC
- Bill Acceptor
- GROUND
  - SWITCH 0
  - SWITCH 1
  - LAMP 0
  - LAMP 1
  - OPEN
  - OPEN
  - +12 VDC
- Front Panel



- LED DESCRIPTION:
- D1 - CARDS SOLD OUT SWITCH
  - D2 - CARD GATE SWITCH
  - D3 - OPEN
  - D4 - OPEN
  - D5 - CARD DISPENSE SENSOR
  - D6 - CARD READ SENSOR
  - D7 - CARD STAGED SENSOR
  - D8 - CARD LEVEL SENSOR (IF USED)
  - D9 - ERROR CODE LED

BROWN BLUE CARD DISPENSE SENSOR (FS1)

ORANGE ORANGE CARDS SOLD OUT SWITCH (SOS)

GREEN GREEN CARD GATE SWITCH (VGS)

STANDARD CONNECTOR DESCRIPTION			
ID #	MFG	PN	DESCRIPTION
1	MOLEX	22-01-3027	2-CIR .100"
2	MOLEX	22-01-3037	3-CIR .100"
3	MOLEX	22-01-3047	4-CIR .100"
4	MOLEX	22-01-3067	6-CIR .100"
5	MOLEX	09-50-3061	6-CIR .156"
6	MOLEX	08-50-0113	.100" TERMINAL
7	MOLEX	08-52-0072-C	.156" TERMINAL

TO MOTOR  
 TO CARD VEND SOLENOID

TO SORT SOLENOID

TYPE #5  
 TO POWER SUPPLY

# 65 WATT POWER SUPPLY HOOK-UP

