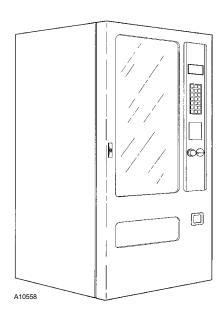


ELECTRONIC



# WITH COINCO VALIDATOR



## **MODELS:**

3053 1999 MDB Beginning S/N 820000

**3054 1999 MDB** Beginning S/N 620000

Service and Parts Manual

April 1999 P/N 4210555

## **TABLE OF CONTENTS**

<b>* * *</b>	SERVICE	**	**	*
--------------	---------	----	----	---

SPECIFICATIONS	1
INTRODUCTION	2
UNPACKING	3
INSTALLATION	
CONFIGURATION	
PRODUCT LOADING	
MACHINE ADJUSTMENTS	7
COINAGE OPERATION	10
BILL VALIDATOR	11
SETTING VEND PRICES	
INSTALLATION CHECKLIST	
CONTROLLER	15
VENDING SEQUENCE	16
SERVICE MODE	
READING ERROR CODES	17
PROGRAMMING INSTRUCTIONS	17
COIN DISPENSE MODE	
MOTOR COUNT MODE	18
RESETTING MOTORS (DOWNWARD	
CONFIGURATION)	18
ACCOUNTABILITY	
SETTING VEND PRICES	19
POINT OF SALES MESSAGE	21
LANGUAGE SELECTION	
VEND OPTIONS	
BILL ESCROW [A] FORCE VEND [B]	
MAXIMUM CHANGE [C]	
SET TIME & DATE [D]	
TIMED SHUT DOWN INTERVALS	20
(SCHOOL TIMER) [E]	26
ONE FREE PRODUCT [F]	27
PROMOTIONAL VEND [G]	
CONTINUOUS TEST VEND OF	
MACHINE [12][12][12]	28

QUICK REFERENCE SERVICE COMMANDS	29
PRINTED CIRCUIT BOARD PIN-OUT	30
SCHEMATIC	31
ELECTRICAL TROUBLESHOOTING	32
CARE & CLEANING	36
❖ ❖ ❖ PARTS LISTING ❖ ❖	<b>*</b>
FINAL ASSEMBLY	38
DOOR ASSEMBLY	40
Coin Insert Assembly	42
Delivery Assembly	44
Light Assembly	
POWER PANEL ASSEMBLY	
ACCESSORIES AND KITS	
TRAY CONFIGURATIONS	49
TRAY ASSEMBLY - 3- AND 4-WIDE	50
CABINET ASSEMBLY	52

## **SPECIFICATIONS**

	MODEL 3053 1999 MDB	MODEL 3054 1999 MDB	
Number of Selections	28	36	
Beginning Serial Number	820000	620000	
Height	68 inches	68 inches	
Width	29 1/4 inches	35 1/8 inches	
Depth	34 1/8 inches	34 1/8 inches	
Shipping Container Size	45.9 cubic feet	54.4 cubic feet	
Shipping Weight	445 pounds	520 pounds	
Electrical Requirements: Line Voltage	115 Volt AC, 60 cycle	115 Volt AC, 60 cycle	
Current Draw	1.2 amp	1.2 amp	
Money Handling: Coin Changer	Coinco 9302GX	Coinco 9302GX	
Bill Validator	Coinco BA32SA	Coinco BA32SA	
Product Pricing Range	Free to \$99.95	Free to \$99.95	
HELIX	CAPACITIES		
Row "A" Snacks and Chips (Medium Snack)	10, 11, 18 count	10, 11 count	
Row "B" Snacks and Chips (Medium Snack)	11 count	11 count	
Row "C" Sandwich Cracker & Candy (Small Snack)	12 count	12 count	
Row "D" Sandwich Cracker & Candy (Small Snack)	18 count	18 count	
Row "E" Sandwich Cracker & Candy (Small Snack)	18 count	18 count	
Row "F" Snacks and Chips (Medium Snack)	10 count	10 count	
Total Capacity	398	507	
Gum and Mint (Split Helix) Optional	40 count	40 count	
RECOMMENDED MAXIMUM PRODUCT SIZE			
Large Snack Helix	5 27/32" x 1 1/2" x 9"		
Medium Snack Helix	4 3/8" x 1	4 3/8" x 1 1/2" x 7"	
Sandwich Cracker Helix	2 15/16" 15/16" x 5 1/2"		
Gum/Mint Split Helix	1" x 13/16" x 5 1/2"		
Dual Helix	Popcorn Items		

## INTRODUCTION

The contents of this manual contains service and installation guidelines and instructions pertaining to the *Lance Super Vendors* - models 3053 1999 MDB and 3054 1999 MDB. Also included is the basic functions and operation of these vendors along with various options and accessories that are available for the machines. It is recommended that you read and thoroughly understand the information in this manual before attempting to put these vendors in operation.

The 24 selection and 36 selection **Super Vendors** have been designed and engineered for many years of trouble-free merchandising, as well as maximum customer friendliness and simplified service and maintenance. Each vendor utilizes a "state-of-the-art" electronic control system which allows changing the programming and machine configuration on location without the need of any additional accessories or remote parts.

All selections can be priced individually at various vend prices ranging from \$.00 to \$99.95 in 5¢ increments.

Electrical malfunctions, service diagnostics, cash accountability and other information is recorded by the control system and will be available to service personnel when the machines are placed in the Service Mode.

Electrical functions are monitored during each vend and any malfunctions detected (faulty motors, switch operations, etc.) will be displayed to service personnel indicating the area where the problem was detected. When a malfunction is detected, that selection will be disabled, prohibiting any vends from being made until the controller has been reset. All other selections will continue to function.

During normal operation, messages will be displayed to the buying customer showing instructions that must be followed.

Both models have the "mix-and-match" designed trays that will allow the changing of selection configurations by adding or reducing the number of motors and helixes. This allows a location to change the vendable products on the spot to meet the specific needs of the location.

Each vendor is capable of supporting a companion vendor for cold drinks which utilizes the **Super Vendors** existing controller, keypad, coin changer and bill validator.

#### Other features include:

- Larger display area for ultimate merchandising and product display.
- Unitized one-piece door, styled with an attractive European flair.
- Adjustable helixes for greater vend reliability.
- Drop-in 24 Volt DC, current limited motors for greater torque and "burn-out" protection.
- Electronic keypad to eliminate electro-mechanical push button switches.
- Programmable vend options to allow for the fine tuning of each vendor to meet the location's needs.

In addition to a parts ordering catalog, optional kit information and wiring diagrams, this manual will detail in step-by-step form:

- Unpacking and installing the vendor.
- Loading product into the vendor.
- \* Adjusting the vendor.
- Coin operation
- Bill Validator operation.
- Setting and displaying the vend prices.
- Vending sequence
- Controller operation & vend options
- Trouble shooting the vendor.
- Care and cleaning the vendor.

It is recommended that this manual be read thoroughly to familiarize the service person with the functions of all components along with the features that are available. The initial set-up of a machine is a very important step of insuring that the equipment operates in a trouble-free manner. By following the instructions at the initial installation of the machine, service problems can be avoided and set-up time will be minimized.

Each machine will be identified by a model number and a specific serial number. These identification numbers appear on the serial number plate attached to the inside and rear of the vendors

## **UNPACKING**

All vendors have been thoroughly inspected prior to shipment and have been packed in a manner to prevent damage during transit.

Unpacking is accomplished in the following manner

- Cut and remove the banding straps that secure the shipping carton to the vendor.
- Carefully lift the shipping carton up and away from the vendor. If ceiling height is not sufficient to allow this, carefully cut the carton taking care not to mar or damage the vendor's finish.

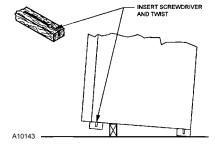


FIGURE 1. Removing Shipping Boards

- 3. Remove the protective plastic bag.
- 4. Remove the base shipping boards by inserting a large screwdriver or prying tool into the notch provided and splitting the knock-away boards. See Figure 1.
- 5. Locate the key in the coin return cup and unlock the vendor. The "T" handle latch requires a minimum of three (3) full turns counterclockwise to open the main door.
- 6. Pull the power cord out of the vendor to its full length.

- Carefully "seat" the rubber grommet on the power cord into the hole in the back of the vendor.
- Remove all packing material, shipping brackets and tape from inside the vendor.
   Adhesive residue can be removed with denatured alcohol or common household vinegar.

## INSTALLATION

Position the vendor in its place of operation no further than six (6) feet from a 115 Volt AC receptacle and check that the door will open fully without interference. For proper operation, especially in the coin changer, it is important that the vendor be perfectly level.

Level the vendor, making sure all levelers are touching the floor. When the vendor is level, the door can be opened to any position and not move by itself. Try the door half closed, straight out and in the wide open position before deciding the machine is level.

Connect the vendor power cord to a grounded 115 Volt AC, 60 Cycle, noise free polarized power source of not less than 15 Amps. Checking the power source can be accomplished with an AC Voltmeter in the following manner:

#### 1. Voltage Check

When the AC Voltmeter probes are connected to the **HOT** and **NEUTRAL** terminals, the voltmeter should indicate 110 to 130 volts AC. See Figure 2.

#### 2. Polarity and Ground Check

When the AC Voltmeter probes are connected to the **HOT** and **GROUND** terminals, the voltmeter should indicate 110 to 130 Volts AC. See Figure 2.

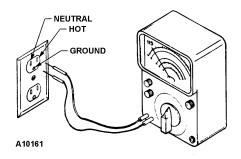


FIGURE 2. Electrical Check with Voltmeter

#### 3 Noise Potential Check

When the AC Voltmeter probes are connected to the **NEUTRAL** and **GROUND** terminals, the voltmeter should indicate 0 Volts AC. See Figure 2. Any voltage reading could cause noise problems in the electronic controller.

#### 4. Amperage Check

At the fuse box or circuit breaker panel, locate the proper circuit and ensure that the fuse or breaker protecting that circuit is rated at 15 Amps or greater.

#### NOTE

In a standard three (3) prong 115 Volt AC wall outlet the **GROUND** pin is round, the **NEUTRAL** pin is rectangular and located clock-wise from the ground pin and the **HOT** pin is rectangular and smaller than the neutral pin and located counterclockwise from the ground pin. See Figure 2.

To correct negative voltage, amperage, polarity, or ground checks, consult a licensed electrician. To correct a negative noise potential check, install a noise suppressor which can be obtained from any electrical or electronic supply store or in kit form from USI. See page 48.

## **OUTLET TESTER**

Plug the easy-to-read tester into any grounded (3-prong) 115V AC outlet to detect faulty wiring. See Figure 3.

Read the indicator lights as explained on the tester. See Table 1 for explanation of faults.

Refer all indicated problems to a qualified electrician.

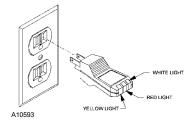


FIGURE 3. Standard 115V AC 3-Prong Outlet

## **CAUTION**

Unplug all equipment on branch circuit before testing.

### NOTE

This is not a comprehensive diagnostic instrument. Please refer to the tester packaging for more information.

FAULT	REASON FOR FAULT		
Open Ground	Ground contact not connected		
Open Neutral	Neutral contact not connected		
Open Hot	Hot contact not connected		
Hot Ground Reverse	Hot and ground contacts interchanged		
Hot Neutral Reverse	Hot and neutral contacts interchanged		

Table 1. Indicated Problems

## **POWER SWITCH**

Each **Super Vendor** is equipped with a "Power Switch" located on the transformer panel along with a 3-Amp breaker. The switch will shut-off the light and controller. See Figure 4.

The 3-Amp breaker is protection for the transformer.

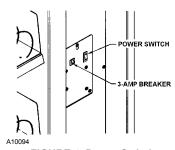
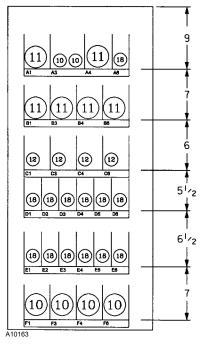


FIGURE 4. Power Switch

## CONFIGURATION

The tray configuration has been factory set to LANCE specifications as shown in the diagrams below. If you should experience any change in product mix or package size, adjustments to these configurations can be made on location without tools.

All trays are vertically adjustable in one inch increments within a four inch range. Any large Snack Selections can be converted to two adjacent Sandwich Snack Selections, and any two adjacent Sandwich Snack Selections can be converted to one large Snack Selection.



- 14 MEDIUM SIZE SNACKS 13 - SANDWICH SNACKS
- 1 DUAL HELIX
- 4.38" WIDE 2.92" WIDE 5.84" WIDE
- 6 (12) (12) (1Z) (12) (12) 51/2 (1B) (18 (1B) (18) (18) (18) 61/2 (18) (18) (18) (1B) (18) (18) (18) (18) A10164
- 19 MEDIUM SIZE SNACKS 16 - SANDWICH SNACKS
- 16 SANDWICH SNACKS 2.92" WIDE 1 DUAL HELIX 5.84" WIDE

4.38" WIDE

## **PRODUCT LOADING**

To load the trays with appropriate product, lift each tray slightly to disengage the detent and pull the tray forward until it stops. As the tray travels forward on its rail system, it will automatically tilt downward and allow easy access for servicing and loading. Load each shelf from front to back making sure all items fit freely between the helixes. Do not attempt to force oversize items into the spaces. All spaces forward <u>must</u> have a product in them; do not skip a space. General guidelines for each product type are as follows:

- A. Medium Snack Helix Medium bagged items and large candy/snack items are generally loaded with the bottom of the product resting on the tray bottom, between the helix coils.
- B. Sandwich Cracker/Candy Helix -Sandwich cracker and candy items are generally loaded with the bottom of the product resting on the tray bottom, between the helix coils.
- C. Dual Helix Used for Popcorn items (light bags). Two helix coils turn in opposite directions from a single dual motor. Loaded with the bottom of the product resting on the tray bottom, between the helix coils.

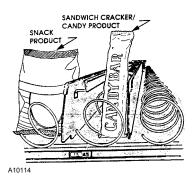


FIGURE 5. Loading example

D. Gum/Mint Split Helix - (Optional) Gum, mint or extremely small snack items are generally loaded with the bottom of the product resting on the tray bottom, between the helix coils.

#### NOTE

When loading the product, make sure that the product label is in full view to the buying customer. The product label should read from left to right or from bottom to top. See Figure 5.

## PRODUCT EJECTORS

Product ejectors can be added to the end of the augers to assist the product out of the tray area (see Figure 6). They can also be moved on the auger to adjust timing. Order P/N 4025748.

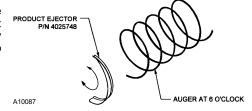


FIGURE 6. Product Ejectors

## **MACHINE ADJUSTMENTS**

Adjustments to tray spacing, tray configuration and helix timing are provided to enhance the merchandising features of the **Super Vendors**. By altering the tray spacing, larger items can be vended. By changing the tray configuration, different product mixes can be accommodated. By re-timing the helixes, difficult to vend items can be delivered more dependably.

## CHANGING TRAY SPACING

The trays can be raised or lowered in one inch increments within a four inch range to provide additional headroom for vending larger items.

#### NOTE

When increasing the headroom between two trays, a corresponding decrease in headroom of an adjoining tray will result.

To change tray spacing, follow the steps outlined below:

- 1. Pull out the tray to be adjusted until it stops.
- Disengage the tray harness from its snap open harness clamp on the right hand side wall. See Figure 7.
- 3. Disconnect the tray plug from its receptacle on the right hand side wall. See Figure 8.
- Lift up on the front of the tray and pull slightly (approximately 1/2") forward to clear the tray stop.
- Lift up on the rear of the tray and remove it from the vendor.
- Disengage both left and right tray rails from their corresponding slots on the left and right side walls by pulling inward on the bottom front of each rail and lifting its flange out of the slot. See Figure 8.
- Pull each rail forward to disengage its rear tabs from the hole in the rear wall. See Figure 6.
- Re-locate both left and right rails by reversing steps 5 and 6.
- The rails must be level from front to back and evenly spaced from top to bottom on each side.
- Replace the tray by placing its rear rollers on the left and right rails and lifting up on the front of the tray as it is pushed back.
- 10. Re-connect the tray plug to its receptacle.
- For proper plug to receptacle orientation the two flat sided connectors (**Double D's**) on the plug should be up. See Figure 7.
- 11. Secure the tray harness with the harness clamp and snap it closed.
- 12. Test vend the tray in its new position to assure that the tray plug is properly connected.

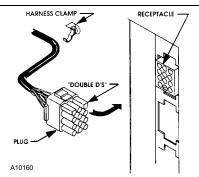


FIGURE 7. Tray Harness

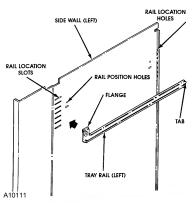


FIGURE 8. Trav Rail

## **HELIX TIMING**

The helix is connected to the motor via an 18 tooth helix hub spline into an 18 tooth internal gear in the motor gear case. This relationship provides a helix timing adjustment in 20 degree increments to alter the product drop-off point at the front of the tray.

Research and testing have determined that a vast majority of all products tested will vend successfully with the leading edge of the helix set at approximately 6:00 o'clock.

This adjustment has been selected as the "Middle of the Road" setting from which adjustments can be made in either direction. All helixes have been factory set to agree with Lance specifications.

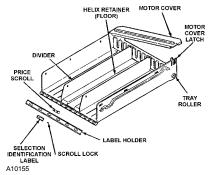


FIGURE 9. Tray Assembly

Should you experience difficulty in vending odd size or shaped items, the helix can be retimed by following the steps outlined below. The positioning of the helix will be on a trial and error basis.

- 1. Pull the tray containing the helix to be re-timed forward to its stop.
- 2. Remove all product from the compartment.
- Depress the motor cover latch and remove the motor cover. See Figure 9
- 4. Lift the helix and motor slightly (approximately 3/4-in to disengage the helix hub from its retaining rib in the bottom of the tray. See Figure 10.
- Separate the helix and hub from the motor slightly (approximately 1-in) by pulling forward on the helix hub to disengage its spline from the motor's internal gear. See Figure 10.
- Rotate the helix and hub in either direction and re-install by pushing the spline into the internal gear of the motor.
- 7. Push down on the motor and helix hub to re-seat the helix hub onto its retaining rib in the bottom of the tray. See Figure 10.
- Replace the motor cover by hooking the left end into its retainer on the tray and snapping the right end into the motor cover latch. See Figure 9.

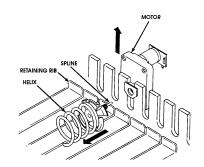


FIGURE 10. Helix Coupling

- 9. Load the helix with the appropriate product for testing.
- 10. Push the tray back to its normal position making sure it is properly seated.
- 11. Test vend product and re-adjust if necessary.

## **COINAGE OPERATION**

Load the coin changer coin tubes with nickels, dimes and quarters. See Figure 11 If the "DEX/UCS" information is to be used see "Accountability - Fill Coins" section. The credit display will scroll the merchandising message ... \*\* LANCE \*\*

AMERICAS FAVORITE BRAND OF SNACK CRACKERS \*\* DONT 50 ROUND HUNGRY \*\*

SNACK RIGHT \*\* RIGHT NOW

Table 2. Coin Tube Capacities

			25¢ OPTION	
	5¢	10¢	HI 25¢	LOW 25¢
FULL LEVEL	68-69	98-99	66-67	8-9
LOW	7-8	10-11	8-9	8-9

## **FEATURES**

The coin mechanism pays out nickels, dimes and quarters from self-loading, high capacity change tubes in the least number of coins available.

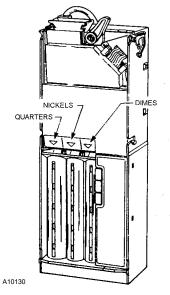


FIGURE 11. Coin Tubes

## **CAUTION:**

DO NOT UNPLUG OR PLUG IN COIN CHANGER WITH POWER ON!

## OPTION SWITCH SETTING

The coin changer has three (3) option switches which allow the owner/operator to select the type of coins to be accepted along with the number of quarters that will be stored in the  $25\phi$  coin tube for overpayment. These switches have been factory set in the following positions:

#1 - OFF #2 - OFF

#3 - OFF

Should a different setting be desired, or a new changer installed, the following switch setting instructions are provided.

- A. Open the outer door to turn the main power switch to the **OFF** position. See Figure 4, page 5.
- B. Remove the coin acceptor portion of the coin changer. See Figure 12.

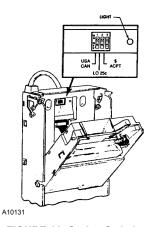


FIGURE 12. Option Switches

C. Locate the coin changer option switches and select from the following optional settings:

#### 1. USA/CAN

ON: U.S. and Canadian coins will be accepted.

OFF: Canadian coins will be rejected.

## 2. LO 25¢

- ON: Quarters are diverted to cash box once the change tube has inventoried approximately 8 quarters.
- OFF: Quarters are diverted into the change tube until the change tube is full.

#### 3. \$ ACPT

ON: Dollar coins will be accepted.

OFF: Dollar coins will be rejected.

#### NOTE

The bill validator operation of this vendor requires the "LO  $25 \rlap/c$ " option switch to be in the "Hi" or "OFF" position

The controller will monitor the condition of the coin changer at all times. Any activity (coins inserted) will be recorded in the accountability area and included in the "DEX/UCS" report. If the "DEX/UCS" information is to be used, the "FILL COINS" procedure should be used when manually filling the coin tubes. See "Accountability - Fill Coins" section of this manual for additional information.

## **BILL VALIDATOR**

The BA32SA bill validator contains an option switch module allowing the unit to be customized to the requirements of an individual account. The following chart shows the functions of the option switches:

Table 3. Option Switch Settings

SWITCH	ON	OFF
1	High Security	Standard Acceptance
2	Accepts bills in one direction only (face up, green seal first)	Accepts bills in both directions (face up)
3	Serial or Parallel Interface	Pulse interface
4	\$20 Accept	\$20 Reject
5	\$10 Accept	\$10 Reject
6	\$5 Accept	\$5 Reject
7	\$2 Accept	\$2 Reject
8	\$1 Accept	\$1 Reject

All validators shipped from the factory will be set with switches #3 & #8 in the **ON** position. All other switches will be set to the **OFF** position. See Table 3. If you desire settings different from those set at the factory, follow the steps outlined below:

- Remove power from the validator by turning the main power switch to the **OFF** position. See Figure 4.
- Remove the retaining screw that secures the logic board and strain relief. see Figure 13.
- Slide the logic board downward to expose the option switch module.
- 4. Set the option switches to the desired setting.
- Reassemble the bill validator in reverse order of disassembly.
- 6. Reapply power, the stacker motor should cycle.
- 7. Test for proper operation.

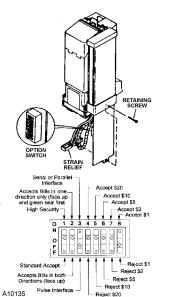


FIGURE 13. Validator Option Switches

## REMOVING ACCEPTED BILLS

Accepted bills may be removed by opening the "bill box" lid or by removing the bill box from the validator. See Figure 14. If the bill box is removed, make sure that it is fully latched in place when it is returned to the validator.

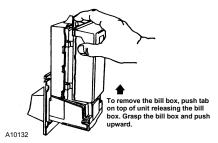


FIGURE 14. Removing Bill Box

## TROUBLE-SHOOTING

Trouble-shooting can be achieved by reading flashes or blinks of light from the (red) LED located on the side of the logic board cover. These flashes can be seen through the grey smoked cover. See Figure 15. During normal operation the LED will be a steady or constant red. See Table 4 for diagnostic codes.

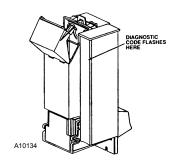


FIGURE 15. Diagnostic Code Flashes

Table 4 Validator Diagnostic Codes

NO. OF FLASHES	DESCRIPTION OF DIAGNOSTIC CODES
No Flashes	Check Power and Harnessing to Validator
1	Bill Box Full
2	Bill Box Lid is open or not latched in place.
3	Check Bill Path
4	All Bill Accept Switches are Off
5	Bill Jam or Sensor Error
6 or more	Reset (Remove and Apply Power) or service required.

## **CLEARING JAMS & CLEANING**

Trapped bills, debris or dirt can result in poor bill acceptance or bill rejection. Remove the "bill box" and lower housing to clear trapped bills or debris. See Figure 16. Clean the bill path plastic parts or belts with a cloth moistened with a mild soap and water solution. Clean the magnetic head and optic sensors using a swab and isopropyl alcohol. Do not use any petroleum based cleaning solvents, scouring pads or stiff brushes for cleaning.

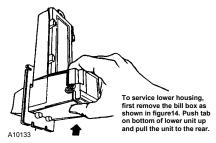


FIGURE 16. Remove Lower Housing

## **SETTING VEND PRICES**

All pricing is controlled by the controller and a price must be established for each selection. Selections can be individually priced in 5¢ increments from zero (free vend) to \$99.95.

The vend prices for these vendors have been factory set to LANCE specifications. Should changes be necessary or should a new controller be installed, the following price setting instructions should be followed:

Make sure that the price scroll under the item agrees with the price programmed into the controller and is secured in place with the scroll lock. See Figure 17.

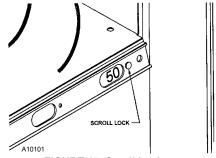


FIGURE 17. Scroll Locks

## TO ENTER THE SERVICE MODE

- Press the red Service Mode Button on the top right side of the control board cover. See Figure 18. The control board is in the upper right side of the cabinet.
- Error codes display if any errors have been detected by the controller. Record error codes as soon as displayed. See Table 5 for explanations of codes.

#### NOTE

The controller will default back to Sales Mode in 25 seconds if no keypad activity is sensed

To exit the Service Mode and return to the Sales Mode, press the Service Mode Button.

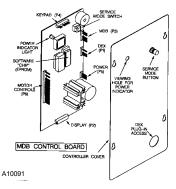


FIGURE 18. Control Board

## SETTING VEND PRICES

- Enter the Service Mode. 1
- Press [ 5 ]. SELECTION displays. 2
- 3. Identify a selection. The selection and the current vend price displays. To identify a selection, on the keypad press the letter and the number for that item.

## **EXAMPLE**

To identify selection A4, press [ A ], then press [ 4 ].

- Enter the new vend price using the number keys on the keypad. It is not necessary to enter leading zeros.
  - Valid prices are from zero (free vend) to \$99.95.
  - Prices can be set in 5¢ increments by individual selection, by row or by entire machine.
- 5. Then, choose between pricing one selection, one row, or the entire machine:

For a Single Selection press [ 10 ]

For an Entire Row press [ 11 ] press [ 12 ]

For the Entire Machine

#### NOTE

To cancel any unwanted settings press [ 13 ].

- 6. Exit the Service Mode.
- 7 Make sure the Price Scroll under each selection on the tray agrees with the programmed price.

## VERIFYING VEND PRICES

The vend price for each selection can be verified at any time while the machine is in the *Sales Mode*. To verify the price programmed into the controller, depress the specific selection numbers. The selection number, followed by the current vend price will be displayed for approximately three (3) seconds. The price for each selection must also be identified by a Price Scroll located on the front of each tray, below each item.

Make sure that the Price Scroll and the price programmed for each item agree.

## INSTALLATION CHECKLIST

- 1. All shipping brackets, packing material and tape have been removed from the vendor.
- 2. Vendor is level and properly located for access to power source outlet.
- 3. Service cord plug-in-receptacle is properly grounded.
- 4. All components are installed on the vendor and are in good condition.
- 5. All vend prices have been set correctly.
- All selections have been properly loaded and all items in each selection correspond to the vend price scrolls.
- All options and features offered have been properly programmed into the controller. Refer to the Controller Section below.

## CONTROLLER

The MDB (Multi-Drop Bus) Controller will support a MDB coin mechanism, a MDB bill validator and up to a maximum of 70, 24 VDC motor driven selections. Also included is a DEX/USC interface that can be used to retrieve data using a DEX/UCS style Hand Held Computer (HHC).

Each time the controller is powered "on", it will default to the "sales mode" of operation, restoring the vend options to their state at power "off". The motor circuits will be checked and the controller will re-configure the vendor to its current state.

During the idle condition of the sales mode the controller will monitor the coin changer, bill validator and keypad for customer input. If no action is taken then the programmable "point of sales" message will be scrolled in the display. If the "Force Vend" option has been selected and the coin changer's coin tubes are below the "low" level sensors, the **PLERSE INSERT EXACT MONEY** message will be displayed.

The controller will allow acceptance of all coins as long as the accumulated credit is less than the maximum vend price of any selection. The amount of credit will be displayed as it is established. Coin acceptance will be disabled when credit has exceeded the highest vend price, during all vends, while coins are being paid out and while the controller is in the Service Mode of operation.

Bill acceptance will be allowed if the quarter tube of the coin mech is above the low level sensor or if the dime and nickel tubes are both above the low level sensors. If the accumulated credit is greater than or equal to the maximum vend price, then bill acceptance is disabled. If the bill validator is equipped with an escrow and the bill escrow feature is enabled and credit has exceeded the maximum vend price, the bill will be held in the escrow position. Otherwise the bill will go straight to the "bill stacker". If the bill validator does not offer escrow, or the bill escrow is disabled, the bill will go straight to the bill stacker.

## **VENDING SEQUENCE**

The amount of credit established will be indicated in the display. When an alpha character is depressed on the keypad, a "beep" will be issued while the alpha is displayed. If a number is depressed within five (5) seconds, a "beep" will acknowledge the entry and one of the following series of events will occur:

- If there has not been enough credit deposited, the selection's character, number and vend price will be displayed for approximately 1 second, with three "beep" tones, followed by a *PLERSE INSERT MORE MONEY* message being scrolled one time. The amount of credit, (or the point of sales message if no credit has been established), will be displayed again.
- If there has been enough credit deposited, the selection's character, number and price will be displayed.
  - With Force Vend OFF The controller will determine if the exact amount of change
    can be paid to the customer. If change can not be returned, the vend will be halted
    and the deposited credit will be returned in "like coin" fashion, three "beep" tones
    will be issued. PLERSE INSERT EXACT MONEY message will be displayed
    and the idle condition of the sales mode will be resumed.
  - With Force Vend <u>ON</u> The selection will be vended. If for some reason the exact change cannot be returned, as much as possible will be paid out and the remaining amount will be retained as credit toward another vend. The amount retained will be displayed. If the correct change is returned, the *THRIK YOU* message will be displayed for 0.8 seconds, followed by the idle condition of the sales mode.
- 3. If a motor is not allowed to complete a full cycle, or if after twelve seconds the motor has not yet returned to the home position, the controller will "beep" three times. The MRKE RLTERNATE SELECTION message is scrolled one time. This will be followed by the amount of credit.
  - With Force Vend <u>ON</u> the force vend feature will be overridden for approximately 25 seconds after a faulty vend. Credit will be returned if the coin return lever is pressed during that period.
- 4. If a selection is not in the configuration, or one with a bad motor is selected, the controller will "beep" three times and display the MRKE RLTERNATE SELECTION message. The credit or point of sales message will be displayed following this message.

## **SERVICE MODE**

The Service Mode is entered by depressing the red Service Mode Button located on the top right side of the control board cover. See Figure 19. Upon entering the Service Mode a "beep" will be issued to recognize the transaction. Diagnostics will be displayed if the controller has flagged any errors. Record error codes as soon as displayed. If credit exists upon entry of the service mode, it will be restored when the sales mode is re-invoked.

The controller will automatically return to the sales mode within 25 seconds if no keypad entry is made during that time. Pressing the Service Mode Button again will also exit the Service Mode.



FIGURE 19. Controller Cover

## **READING ERROR CODES**

When entering the *Service Mode*, error codes (See Table 5) will be displayed if any errors have been flagged by the controller. Note any errors and correct.

Table 5. Service Mode Error Codes

CODE*	INDICATES	ACTION
xx 1*	Too little motor current (under 20 mA). Electrically open motor circuit.	Check motor xx*. Must perform a Test Vend to reset
xx 2*	Too much time to complete vend (12 seconds)	Check motor xx* and/or product jam. Must perform a Test Vend to reset
ERROR 3	Loss of coin mech. communications	Check coin mech. or harness connection for problem
ERROR 4	NOVRAM checksum error. Possible control board problem	Reset vend prices and Test Vend

<sup>\*</sup> xx indicates the motor (selection) number

**EXAMPLE** 

A7 1 indicates motor A7 is not operating.

## PROGRAMMING INSTRUCTIONS

Table 6 lists the programming modes that can be accessed while in the *Service Mode*. The specific details and instructions of each mode are explained throughout this manual.

Table 6. Programming Modes

KEY INPUT	PROGRAMMING MODE
1	Coin Dispensing
2	Motor Count
3	Downward Configuration
4	Accountability
5	Price Setting
6	Test Vend Single Selection
7	Test Vend Entire Row
8	Test Vend Entire Machine
9	Point of Sales Message Programming
10	Language Selection
11	Vend Options
12	Continuous Test Vending of Machine
13	To Exit Specific Mode or Exit Service Mode

#### **COIN DISPENSE MODE**

To dispense a coin from the coin changer inventory tubes the controller must be placed in the *Service Mode*. While in the service mode, press the number [ 1 ] on the keypad. The controller will display *DISPERSE*. Pressing one of the following letters the coin changer will dispense the appropriate coins. The coins will continue to be paid out as long as the corresponding key is held depressed.

[ A ] =  $25\phi$  Coin [ B ] =  $10\phi$  Coin [ C ] =  $5\phi$  Coin

To exit this mode and remain in the *Service Mode* press the number [ 13 ] on the keypad. To exit the *Service Mode* press the Service Mode Button.

#### MOTOR COUNT MODE

To access the Motor Count Mode the controller must be placed in the *Service Mode*. While in the *Service Mode*, press the number [ 2 ] on the keypad. When in the Motor Count Mode the controller will indicate the total number of functional motors that are in the system. The controller will check the electrical circuit of each motor to determine if it is complete at that instant. The message *motors* followed by the number of functional motors will be displayed.

The motor count can be displayed again by depressing the number [ 2 ] on the keypad. Pressing and holding key [ 2 ], the count will be displayed constantly.

If the motor count displayed does not agree with the total number of selections in the machine, this indicates that the electrical circuit of all motors is not complete. The service person should determine what motor/motors are not functioning. Listed below are suggested steps to be taken.

- 1. Were faulty motors displayed when placed in the service mode?
  - Problem would be in these areas.
- 2. Test vend all selections.
  - Faulty motors will not vend.
- 3. Refer to the Trouble Shooting section of this manual for further assistance.

#### **CHECK MOTOR**

- 1. Visually inspect motor for broken connections or burnt wiring.
- 2. Switch non-functioning motor with a functioning motor: does the problem stay with the harness or move with the motor?
- 3. Reset motors (downward configure) if selections have been removed from configuration.

## RESETTING MOTORS (DOWNWARD CONFIGURATION)

If a tray configuration is changed, use this mode to reset the controller to recognize all functional motors.

1 Enter the Service Mode

- Press [ 3 ]. The controller will reconfigure to the <u>currently functioning</u> motors and display *CORFISURED*.
- Exit the Service Mode.

#### NOTE

This is the only way to remove motors from the configuration.

#### **ACCOUNTABILITY**

Accounting data, such as total cash, total bills accepted and total vends is recorded for the total machine activity. This can be used to monitor the activity of the vendor.

To access the *Accountability Mode* the controller must be placed in the *Service Mode*. While in the service mode, press the number [ 4 ] on the keypad. The controller will display *RCCOUNTING* and wait for the following keypad inputs:

- [ A ] Displays value of all cash sales since initialization. This total is non-resettable and will rollover after \$99,999.95.
- [ B ] Displays total value of bills accepted to the stacker since initialization. This total is non-resettable and will rollover after \$99,999.00.
- [ C ] Displays total number of products vended since initialization. This total is not resettable and will rollover after 99,999.
- [ D ] Displays total number of products vended since the last reset. This total will rollover at 79,999,920
- [ E ] Displays *RESET* and wait for entry. At this point the totals that are maintained in "D" can be reset to zero. Press [ F ] to reset all resettable values.
- [ G ] Displays FILL COINS then shows zero credit. As coins are entered the display will indicate the total value of the coins entered. This option is to be implemented for DEX operations. Pressing the number "13" on the keypad will exit this mode.
- [ 12 ] Displays **DEX/UCS** and wait up to 25 seconds while allowing a DEX/UCS dump session to be initiated.

To exit this mode and remain in the *Service Mode* press the number [ 13 ] on the keypad. To exit the *Service Mode* press the Service Mode Button.

## **SETTING VEND PRICES**

- 1. Enter the Service Mode.
- 2. Press [ 5 ]. SELECTION displays.
- 3. Identify a selection. The selection and the current vend price displays.

  <u>To identify a selection</u>, on the keypad press the letter and the number for that item.
- Enter the new vend price using the number keys on the keypad. It is not necessary to enter leading zeros.

## **EXAMPLE**

To set a vend price of \$.65, press [ 6 ], then [ 5 ].

- Valid prices are from zero (free vend) to \$99.95.
- Prices can be set in 5¢ increments by individual selection, by row or by entire machine.

5. Choose between pricing one selection, one row, or the entire machine:

For a Single Selection
 For an Entire Row
 For the Entire Machine
 press [ 10 ]
 press [ 11 ]
 press [ 12 ]

#### NOTE

To cancel any unwanted settings press [ 13 ].

- 6. Exit the Service Mode.
- Make sure the Price Scroll under each selection on the tray agrees with the programmed price.

#### **Test Vend**

Using Test Vend modes do not affect the totals accumulated in the accountability records.

The controller will check the motor circuit and run the selection through a complete vend cycle if the circuit is complete and the motor is functional.

Place the controller in the Service Mode.

- ◆ Test Vend Single Selection: Press [ 6 ]. 5ELECTION displays.
  - Identify the selection; the selection number and vend price display and the test starts.
  - If the vend is successful, one "beep" will sound.If the vend is unsuccessful, three beeps sound.
  - 3. To test vend another selection, repeat Steps 1, 2 and 3 outlined above.
- ◆ Test Vend Complete Row: Press [ 7 ]. SELECTION displays.
  - 1. Press the letter of the desired row. The selection number and the vend price of each selection display.
  - If the test is successful one beep sounds and the test continues with the next motor.If the vend is not successful three beeps sound and the test continues with the next motor, until all motors in the row have been tested.
- ◆ Test Vend Complete Machine: Press [ 8 ]. SELECTION displays.
  - The test will start with the last motor and run each motor in the configuration in reverse sequence. As each corresponding vend is attempted, the controller will display the selection number and vend price of that selection.
  - 2. If the vend is successful, the controller will pause for approximately 400 ms, then continue to the next motor.
    - If the vend is not successful three beeps sound and the test continues with the next motor.
    - To cancel complete machine test, press and hold key [ 13 ] until test stops
  - When vends on all motors in the machine have been attempted, the test stops.

Exit the Service Mode.

#### POINT OF SALES MESSAGE

Provisions have been incorporated into the controller for a point of sales message that will be displayed to the buying customer. This message can be used as advertising or encouragement to the buying customer to purchase the products. The point of sales message will appear continuously while the machine is in a standby condition as long as the Force Vend Option is off.

The sales message can be changed on location by accessing the *Point of Sales Message Mode*. Messages can include up to 105 characters including spaces. While in the programming mode the keypad buttons function similar to a typewriter keyboard. A key pad "overlay" indicates the positions of each letter or number. By placing the "overlay" over the selection panel a new message can be typed into the controller's memory.

When entering the new message, **all inputs** will overwrite the previous message. If the maximum limit of 105 characters is entered, the message length is automatically saved.

To change the point of sales message.

Place the controller in the *Service Mode* by pressing the Service Mode Button on the control board.

- 1. Press the number [ 9 ] on the keypad. See Figure 20.
- The controller will display **MESSRGE**
- Enter the new message.
- Use the key pad "overlay" and refer to Figure 21 for location of characters on the keypad.
- 3. Save the message into the controller's memory by depressing the [ ENTER ] key twice.

#### NOTE

When in the Point of Sales Message Mode, the buttons on the keypad have different functions

Α	0	1
В	2	ფ
С	4	5
D	6	7
Ε	8	9
F	10	11
G	12	13

FIGURE 20. Keypad in Standby Mode

Α	G	М
S	Υ	4
В	Н	N
Т	Z	5
С	ı	0
U	0	6
D	J	Р
٧	1	7
E	K	Q
W	2	8
F	L	R
Х	3	9
SPACE	SHIFT	BACK SPACE
*	ENTER	\$

FIGURE 21. Keypad in Point of Sales Message Mode With Overlay

The upper characters in each block are accessed directly by depressing the desired key. The lower characters in each block in Figure 21 can only be accessed by depressing the **SHIFT** key **each** time those characters are needed.

To exit this mode without saving a new message, press the number [ 13 ] on the keypad. Once a new message is started, the previously outlined steps must be followed to properly exit.

#### LANGUAGE SELECTION

During the normal operation of the vendor, default messages will be displayed, depending on the condition or function being performed. The controller can be programmed to display the default messages in different languages.

To select the message language, while in the Service Mode press the number [ 10 ] on the keypad. The controller will display LANSURGE and wait for the appropriate letter. After the letter has been depressed, the nationality of the language selected will be displayed. Listed below are the various languages available:

 $\begin{array}{lll} \textbf{A} = \text{Italian} & \textbf{D} = \text{Danish} & \textbf{G} = \text{German} \\ \textbf{B} = \text{Dutch} & \textbf{E} = \text{English} & \textbf{11} = \text{Auxiliary} \\ \end{array}$ 

**C** = Spanish / English **F** = French / English

If [ 11 ] is selected for the auxiliary language the controller will display **TESSAGE**  $\Pi$  and wait for a message to be entered. This is done in the same fashion as explained under the "Point of Sales After starting a new message, the message must be saved before starting another "message" section. Pressing [ 13 ] while "MESSAGE n" is being displayed will save the previous message and advance through the message menu to exit the language mode.

All vendors, when shipped from the factory will be set to display the messages in the "English" language. All Auxiliary messages will be blank. The following messages will be affected by the language selection:

#### NOTE

Selecting Auxiliary Language without programming will result in NO MESSAGES being displayed.

#### Message #1:

English: PLEASE INSERT EXACT MONEY

Italian: PER FRVORE INTRODURRE I PRECISI SOLDI

Dutch: AFGEPAST GELD IN WERPEN

Spanish: POR FRVOR DEPOSITE CANTIDAD EXACTA

Danish: INDKRST RFTRLTE PENGE

French: FRITES L"RPPOINT

German: **ABGEZAHLETS GELD EINWERFEN**Auxiliary: Programmable, maximum length 30

#### Message #2:

English: PLERSE INSERT MORE MONEY

Italian: PER FRVORE INTRODURRE PIU SOLDI

Dutch: **MEER GELD IN WERPEN** 

Spanish: POR FAVOR DEPOSITE MAS DIMERO

Danish: INDKRST FLERE PENGE

French: MONTANT INFUFFISANT INTRODUISEZ D'AUTRES PIECES

German: **MEHR GELD EINWERFEN** 

Auxiliary: Programmable, maximum length 30

Message #3:

MAKE ALTERNATE SELECTION English: Italian: FARE UNA ALTRE SCELTA Dutch: ANDERE KEUZE MAKEN Spanish: SELECCIONE OTRO PRODUCTO Danish:

VAELG ANDEN VARE

French: FRITES UNE RUTRE SELECTION German: ANDERE WARE WAHLEN Auxiliarv: Programmable, maximum length 25

Message #4:

English: PLEASE CALL SERVICE

Italian: PER FRVORE CHIRMARE SERVIZIO

Dutch: SERVICEDIENST BELLEN

Spanish: POR FAVOR LLAMAR MANTENIMIENTO

Danish: TILKALD SERVICEMONTOR French: DEMANDEZ LE RESPONSABLE German: BITTE KUNDENDIENST RUFEN Auxiliary: Programmable, maximum length 25

Message #5:

English: VENDING OPERATION TO RESUME AT (HH:MM) Italian: VENDING OPERATION TO RESUME AT (HH:MM) VENDING OPERATION TO RESUME AT (HH:MM) Dutch: Spanish: VENDING OPERATION TO RESUME AT (HH:MM) Danish: VENDING OPERATION TO RESUME AT (HH:MM) French: VENDING OPERATION TO RESUME AT (HH:MM) German: VENDING OPERATION TO RESUME AT (HH:MM)

Auxiliary: Programmable, maximum length 25

Message #6: (Not applicable to these Vendors)

MAKE SAACK SELECTION ONLY English:

Italian: DISPONIBILI SOLO LE SELEZIONI SNACK

ALLEFO SOACK KEIIZES Dutch:

SOLO DISPONIBLE PRODUCTOS EN ESPIRAL Spanish:

Danish: KUN VALG AF KONFEKTURE MULIGT

French: CHOISISSEZ UNIQUEMENT LES CONFISERIES German: NUR RUSGRBE VON SUSSWAREN MOGLICH

Auxiliary: Programmable, maximum length 25

Message #7: Message #8

FREE ON US Enalish: THANK YOU English: Italian. **GRAZIE** Italian: FREE ON US Dutch: DANK U Dutch: FREE ON US Spanish: **GRACIAS** Spanish: FREE ON US Danish: TAK Danish: FREE ON US French: MFRCI French: FREE ON US FREE ON US German: VIEL. DANK German: Programmable, Auxiliary: Auxiliary: Programmable,

maximum length 10

maximum length 10

#### VEND OPTIONS

Vend options are available that can be programmed into the controller. These options allow the machine to be programmed to function as a changer without making a purchase, make multiple selections with a single credit deposit, or vend a free item when selecting another, along with others as indicated in the following list:

```
[ A ] = BILL ESCROW
[ B ] = FORCE VEND
[ C ] = MAXIMUM CHANGE
[ D ] = SET TIME & DATE
[ E ] = TIMED SHUT DOWN INTERVALS (School Timer)
[ F ] = FREE PRODUCT MODE
[ G ] = PROMOTIONAL VEND
```

To access the above modes the controller must be in the *Service Mode*. While in the *Service Mode*, press the number [ 11 ] on the keypad. The controller will display *OPTIONS* and wait for the appropriate letter as defined above.

## BILL ESCROW [ A ]

The purpose of this feature is to prevent the vendor from being used as a "changer". When in the **ON** position, this option will allow the last bill accepted to be returned, provided the bill validator is equipped with an "escrow" feature. If the validator has the escrow feature, the bill will be returned when the "coin return" command is initiated (coin return button is pushed). When in the **OFF** position, all bills inserted are routed directly to the stacker and when the "coin return" command is initiated, change will be returned to the buying customer.

To set the Bill Escrow options the controller must be in the *Service Mode*. While in the *Service Mode* press the number [ 11 ] on the keypad. The controller will display *OPTIORS* and wait for the appropriate letter as defined above. Next press the letter [ A ]. The current (ON or OFF) state will be displayed as *ESCROW XXX*. Pressing [ A ] again will toggle the ON/OFF state.

To exit this mode and remain in the Service Mode press the number [ 13 ] on the keypad. To exit the Service Mode press the Service Mode Button.

## FORCE VEND [ B ]

When in the **ON** position, this option will force the buying customer to complete a purchase once they have deposited money of any form. The coin return command is disabled. If a vend is attempted and the motor fails during this vend, the customer will be allowed to return the credit for up to 25 seconds, regardless of the force vend setting. When in the **OFF** position the controller will allow the buying customer to cancel the transaction at any time and have the credit returned when the coin return command is initiated. A purchase of a product does not have to be made.

To set the Force Vend options the controller must be in the *Service Mode*. While in the *Service Mode* press the number [ 11 ] on the keypad. The controller will display *OPTIONS* and wait for the next input. Nest press the letter [ B ]. The current (**ON** or **OFF**) state will be displayed as *F VND XXX*. Pressing [ B ] again will toggle the **ON/OFF** state.

To exit this mode and remain in the *Service Mode* press the number [ 13 ] on the keypad. To exit the *Service Mode* press the Service Mode Button.

## MAXIMUM CHANGE [ C ]

The Maximum Change Mode is used to control the maximum amount of change that will be refunded on over deposit. This option will prevent change from being returned to the customer until the credit amount is less than or equal to the programmed maximum change limit. This mode is only recommended when there is a wide spread between the lowest vend price and the highest vend price of items. When the maximum change mode is initiated the credit amount **must** be equal to or less than the programmed amount before change will be refunded.

To set the Max Change options the controller must be in the Service Mode. While in the Service Mode press the number [ 11 ] on the keypad. The controller will display OPTIONS and wait for the next input. Next press the letter [ C ]. The current (ON or OFF) state will be displayed as MRX CH6 XXX. Pressing [ B ] again will toggle the on/off state. Press [ 10 ] to save.

If the **ON** mode is selected, a second menu will appear and the controller will display **MX CH6 XXX.** This can be modified in the same manner as described in the price setting procedure. Press [ 10 ] to save settings. To cancel an unwanted setting before saving, press [ 13 ].

## **EXAMPLE**

To set Max Change of \$.65, press [ 6 ], then [ 5 ].

To exit this mode and remain in the *Service Mode* press the number [ 13 ] on the keypad. To exit the *Service Mode* press the Service Mode Button.

#### SET TIME & DATE [ D ]

#### NOTE

The time and date must be set if either DEX/UCS or the Timed Shut Down Intervals options are to be used.

- 1. Press the Service Mode Button to enter the Service Mode.
- 2. Press number [ 11 ] on the keypad. OPTIONS displays.
- 3. Press the letter [ D ]. The current time displays.

#### NOTE

The controller operates on a 24-hour format. Time displays as *TIME HH.mm* (i.e. 17.14 is 5:14 PM).

- 4. To change the time, press the numeric keys. Press key [ 10 ] to save.
- 5. The current month displays as **month mm**, where **01** = January, **02** = February **12** = December.
- 6. To change the current month, press the numeric keys. Press [ 10 ] to save.
- 7. The current date (1 31) displays as DATE DD.
- 8. To change the date, press the numeric keys. Press [ 10 ] to save.
- 9. The current day of the week displays as **DRY D** where **D** indicates **I** = Sunday, **2** = Monday, **3** = Tuesday, **4** = Wednesday, **5** = Thursday, **6** = Friday, **7** = Saturday.
- 10. Use the numeric keys to change the day. Press [ 10 ] to save.
- 11. The current year displays as **YERR YY**. (i.e. **99** = 1999)
- 12. To change the year, press the numeric keys for the last two digits of the year. Press [ 10 ] to save.

To cancel an unwanted setting without saving, press [ 13 ] or exit the Service Mode by pressing the Service Mode Button.

## TIMED SHUT DOWN INTERVALS (SCHOOL TIMER) [ E ]

This option shuts down the machine during specified intervals of the day. All vending functions of the machine will be disabled. Four programmable intervals are available. If set to **ON**, during these time intervals the message **VENDING OPERATION TO RESUME AT HH.MM** displays. (i.e. **9.05** = 9:05 am, **15.34** = 3:34 p.m.) The current time and date must be set before specifying the intervals.

- Press the Service Mode Button located on the controller cover inside the cabinet to enter the Service Mode
- Press the number [ 11 ] on the keypad. OPTIONS displays.
- 3. Press the letter [ E ]. *TIMES ON* or *TIMES OFF* displays, indicating the current setting.
- Press [ E ] to toggle the ON/OFF setting.

#### NOTE

If the **ON** state is selected, four intervals with a start and a stop time for each, **must** be programmed. If an interval is not used, program the start and stop times to zeros (00.00).

The controller operates on a 24-hour format. Time displays as **TIME HH.MM** (i.e. **17.14** is 5:14 PM).

- If the ON state is selected, wait approximately one second, 15TRT HH.MM will display (i.e. 15TRT 13.12 = shutdown at 1:12 p.m.), indicating the starting time for the <u>first</u> shutdown interval.
- To change this start time, use the numeric keys on the keypad. Press the number [ 10 ] to save.
- 1510P HH.MM displays, indicating the ending time for the first shutdown interval. To change the ending time for the first shutdown, press the numeric keys. Press the number [ 10 ] to save.

#### NOTE

This is the time the machine will start up again <u>after</u> being shut down during the first interval.

- 8. **IDYXXXXXXX** displays, indicating which days of the week this interval applies to. **0** = OFF and **1** = ON. The first **X** indicates the status for Sunday, the second for Monday, and so on, until Saturday. (i.e. **IDY0111110** = the first interval is used on all days except Saturday and Sunday).
- 9. To change the daily status:
  - press [ 1 ] to activate that time interval for shutting down the machine or
  - press [ 0 ] to not use that interval on that day.
- When the desired setting is displayed for all seven days, press [ 10 ] to save. This
  completes the settings for the first interval.
- 11. **25TRT HH.** mm displays, indicating the starting time for the second shutdown interval.

Repeat steps 5 through 11 until all four intervals have been set. When finished with the fourth interval, the controller will return to the *Service Mode*.

To cancel an unwanted setting before saving, press [ 13 ] or exit the Service Mode by pressing the Service Mode Button.

## NOTE

**All four time intervals must be set.** Each start and stop time must be set for proper operation. If an interval is not needed, set the start and stop times to zero (00.00).

#### **EXAMPLE**

то	PRESS	DISPLAYS
Enter Service Mode	Service Mode Button	
Access Options Mode	[ 11 ]	OPT10N5
Set School Timer Option ON	[ E ]	TIMES ON
Set Interval 1 Start time to 8:00 am	[ 8 ][ 0 ][ 8 ]	15TRT 8.00
Set Interval 1 End time to 11:30 pm	[1][1][3][0]	15TOP 11.30
Use Interval 1 on Monday, Tuesday, Wednesday, Thursday and Friday	[0][1][1][1][1][0]	1040111110
Set Interval 2 Start Time to 1:00 pm	[ 1 ][ 3 ][ 0 ][ 0 ]	25TRT 13.00
Set Interval 2 End Time to 4:00 pm	[ 1 ][ 6 ][ 0 ][ 0 ]	25TOP 16.00
Use Interval 2 on Monday, Tuesday, Wednesday, Thursday and Friday	[0][1][1][1][1][1][0]	2040111110
Set Interval 3 and 4 to zero	[0][0][0][0]	35TRT 00.00
Set Interval 3 End Time to 00:00	[0][0][0][0]	35TOP 00.00
Set Interval 3 days to all 0's		<i>3040000000</i>
Set Interval 4 Start Time to 00:00	[0][0][0][0]	45TRT 00.00
Set Interval 4 End Time to 00:00	[0][0][0][0]	45TOP 00.00
Set Interval 4 days to all 0's		4040000000

## What has been set?:

On Monday, Tuesday, Wednesday, Thursday and Friday the machine will not vend from 8:00 a.m. until 11:30 a.m. and from 1:00 p.m. until 4:00 p.m.

## ONE FREE PRODUCT [ F ]

This option will allow a free product to be given to the customer at a programmed interval. When enabled the product will be vended at no cost, all accumulated credit will be returned, and a message *FREE ON US* will be displayed during the vend process. Setting this interval to '1' provides a free vend at every transaction, '0' disables the option, and the maximum valid interval is 255.

To access this option the controller must be in the *Service Mode*. While in the *Service Mode* press the number [ 11 ] on the keypad. The controller will display *OPTIORS*. Press the letter [ F ] The controller will display *FREE XXX*, indicating the current interval that a free product will be dispensed.

## **EXAMPLE**

If **FREE 75** is displayed, the free vend will occur every 75<sup>th</sup> vend.

A new interval may be entered by pressing the numeric keys, these will be displayed as they are entered. When the desired interval is displayed, press the number [ 10 ] to save.

To cancel an unwanted setting before saving, press [ 13 ] or exit the Service Mode.

## PROMOTIONAL VEND [ G ]

This option allows the customer to receive an additional product "free" when purchasing another. A maximum of two (2) promotional items can be programmed into each machine. The promotional or free item will always be dispensed from the #2 selection of a row. The primary product will be dispensed from the #1 selection of a row. When enabled, purchasing selection '1' from one of the two possible promotional rows will result in both selection '1' and '2' of that row to vend sequentially. Individual vends from selection "2" can be obtained while in promo vend if these selections are depressed with adequate credit inserted.

To access this option the controller must be in the *Service Mode*. While in the *Service Mode* press the number [ 11 ] on the keypad. The controller will display *OPTIONS*. Press the letter [ G ] The controller will display *PROMO XXX* indicating the current on/off state. Pressing [ G ] again will toggle the on/off state.

To program the promotional rows after selecting the ON option, wait 1 second and the display will continue to **ROW5 X X**. The X's will indicate the current promotional rows programmed. (Row A, Row B, etc.). If the promotional rows were never selected the display will show – –. New rows may be entered by pressing the alphabetic keys. To clear any previous entries, press the number key [ 12 ] and enter the new row/rows. When the desired selection is displayed, press the number [ 10 ] to save.

To cancel an unwanted setting before saving, press [ 13 ] or exit the Service Mode by pressing the Service Mode Button.

## CONTINUOUS TEST VEND OF MACHINE [ 12 ][ 12 ][ 12 ]

This option will allow a continuous test vend of all motors in the present configuration of the entire machine. The test will start with the last motor and run each motor in the configuration in reverse sequence. As each corresponding vend is attempted, the controller will display the selection number and vend price of that selection. If the vend is successful, the controller will pause for approximately 400 ms, then continue to the next motor. If the vend is not successful, the controller will stop the test vend operation and flash the selection number of the failed motor. If all motors in the configuration are successfully vended, the controller will pause for 15 seconds, then the cycle will be restarted.

To start the test procedure the controller must be in the *Service Mode*. While in the *Service Mode* press the number [ 11 ] on the keypad. The controller will display *OPTIONS*. Press the number [ 12 ] on the keypad three consecutive times in rapid succession.

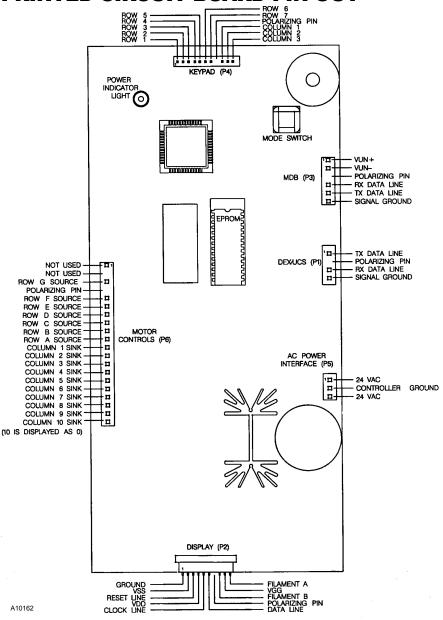
To stop the test vend cycle or to exit this mode, press the number [ 13 ] and hold until the current motor has been successfully vended. To exit this mode press the Service Mode Button.

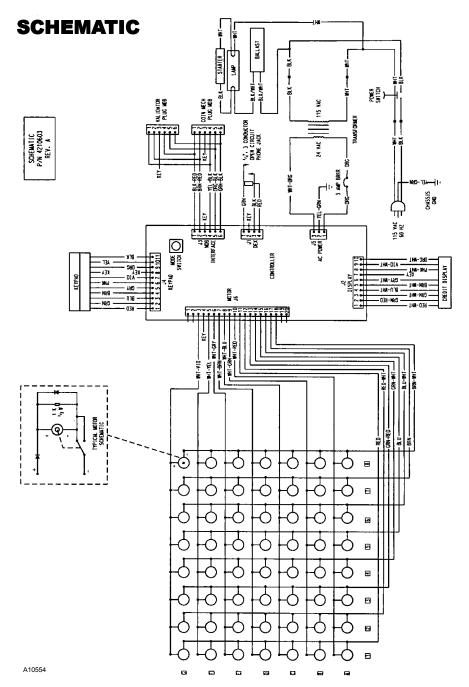
## QUICK REFERENCE SERVICE COMMANDS

<u>LANCE SUPER VENDORS</u> - PROGRAMMING INSTRUCTIONS
Press Service Mode Button on the Control Board and follow the steps outlined below:

MODE KEY	FUNCTION	TO PROGRAM ENTER THE FOLLOWING
1	DISPENSE COINS	[1]PLUS[A] = 25¢ [1]PLUS[B] = 10¢ [1]PLUS[C] = 5¢ [1]PLUS[D] = \$1.00
2	MOTOR COUNT	[ 2 ] = NUMBER OF ACTIVE MOTORS
3	DOWNWARD CONFIGURATION	[ 3 ] = RECONFIGURES MACHINE WITH ALL FUNCTIONAL MOTORS
4	ACCOUNTABILITY	[ 4 ] PLUS [ A ] = TOTAL SALES SINCE INITIALIZATION [ 4 ] PLUS [ B ] = TOTAL BILLS IN STACKER SINCE INITIALIZATION [ 4 ] PLUS [ C ] = TOTAL VENDS SINCE INITIALIZATION [ 4 ] PLUS [ D ] = TOTAL VENDS SINCE LAST RESET [ 4 ] PLUS [ E ] = RESET (RESETTABLE) TOTALS — CONFIRM WITH [ F ] [ 4 ] PLUS [ G ] = FILL COINS IN COIN TUBES [ 4 ] PLUS [ 12 ] = "DEX/UCS" REPORT INFORMATION
5	SET PRICE INDIVIDUAL SELECTION ENTIRE ROW ENTIRE MACHINE	[ 5 ] PLUS (SEL) PLUS (PRICE) PLUS [ 10 ] [ 5 ] PLUS (SEL) PLUS (PRICE) PLUS [ 11 ] [ 5 ] PLUS (SEL) PLUS (PRICE) PLUS [ 12 ]
6	TEST VEND - SINGLE SELECTION	[ 6 ] PLUS SELECTION
7	TEST VEND - ENTIRE ROW	[7]PLUS ROW "ALPHA" (PRESS & HOLD [ 13 ] TO ABORT)
8	TEST VEND - ENTIRE MACHINE	[ 8 ] (PRESS AND HOLD [ 13 ] TO ABORT ANY TIME DURING TEST)
9	EDIT POINT OF SALES MESSAGE	[ 9 ] PLUS MESSAGE - REFER TO SERVICE MANUAL
10	LANGUAGE SELECTION	[ 10 ] PLUS [ A ] = ITALIAN [ 10 ] PLUS [ B ] = DUTCH [ 10 ] PLUS [ C ] = SPANISH / ENGLISH [ 10 ] PLUS [ D ] = DANISH [ 10 ] PLUS [ E ] = ENGLISH [ 10 ] PLUS [ F ] = FRENCH / ENGLISH [ 10 ] PLUS [ G ] = GERMAN [ 10 ] PLUS [ 11 ] = AUXILIARY
11	VEND OPTIONS: BILL ESCROW FORCE VEND MAXIMUM CHANGE SET TIME & DATE TIMED SHUT DOWN ONE FREE PRODUCT PROMOTIONAL VEND CONTINUOUS TEST VEND	[ 11 ] PLUS [ A ] = BILL ESCROW "ON" OR "OFF" [ 11 ] PLUS [ B ] = FORCE VEND "ON" OR "OFF" [ 11 ] PLUS [ C ] PLUS (AMT) PLUS " [ 11 ] PLUS [ D ] (SEE SERVICE MANUAL) [ 11 ] PLUS [ E ] (SEE SERVICE MANUAL) [ 11 ] PLUS [ F ] (SEE SERVICE MANUAL) [ 11 ] PLUS [ G ] (SEE SERVICE MANUAL) [ 11 ] PLUS [ 12 ]+[ 12 ]+[ 12 ] = TEST VEND ALL CONFIGURED MOTORS

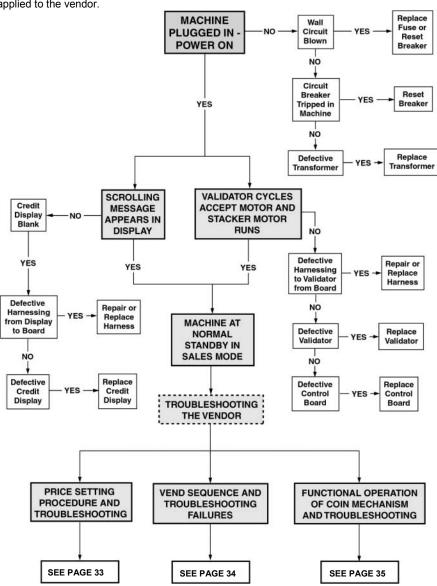
## PRINTED CIRCUIT BOARD PIN-OUT





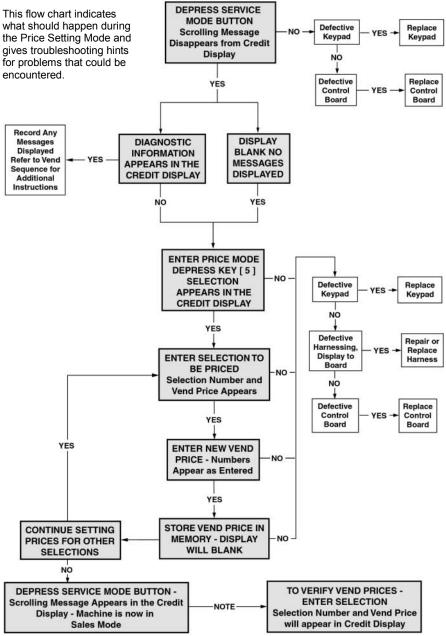
## **ELECTRICAL TROUBLESHOOTING**

This flow chart indicates what should happen when power is applied to the vendor.

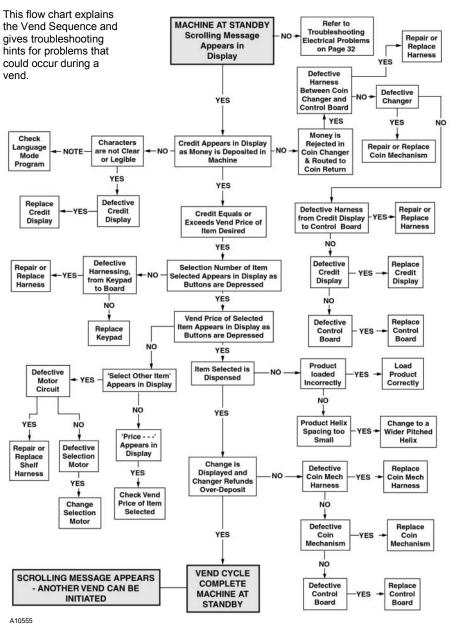


A10553

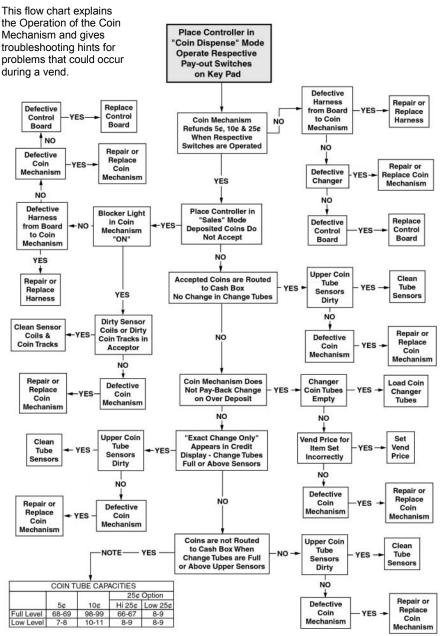
#### **ELECTRICAL TROUBLESHOOTING**



#### **ELECTRICAL TROUBLESHOOTING**



#### **ELECTRICAL TROUBLESHOOTING**



#### **CARE & CLEANING**

#### **CAUTION**

Always disconnect power source before cleaning.

#### **Cabinet Exterior**

Wash with warm water and a mild detergent, rinse thoroughly and dry with a non-abrasive, lint free cloth. Wax occasionally with a quality grade liquid or paste auto wax. Minor scratches can be smoothed with rubbing compound, but deep scratches should be touched up with paint to prevent rust. Plastic parts should be cleaned with non-abrasive plastic cleaner. Jewelers "rouge" can sometimes be used to polish out scratches in plastic.

#### Cabinet Interior

Disconnect power from vendor. Wash with warm water and a mild detergent, rinse thoroughly and dry with a non-abrasive, lint free cloth. Offensive odors may be eliminated by adding baking soda or ammonia to the cleaning solution. Paint brushes may be used to clean hard to reach areas such as cabinet and delivery box corners. A damp sponge will pick up loose particles from the delivery box. The delivery box drain tube is equipped with a screen, which can be removed for cleaning.

The vend motors and helixes in the *Super Vendors* require no lubrication. Spray cleaners, lubricants or silicone may damage these moving parts. The nylon tray-rollers need no lubrication but do require occasional cleaning for smooth operation. The vend door and anticheat moving parts also require cleaning without lubrication. The main door hinges should require no lubrication, provided the cabinet is installed level. Occasional lubrication of the main door lock screw and lock nut with a quality lubricant, such as lithium grease, will allow the locking mechanism to function more smoothly.

The electronic coin changer is designed to operate without lubrication and minimal cleaning. Occasionally open the coin acceptor portion and wipe the exposed surfaces with a damp cloth.

For cleaning and caring for the bill validator see the Validator section of this manual.

#### **CAUTION**

Electronic or electrical components should be kept free of water or other conductive liquids. Should any of these components be exposed to liquids, rinse and dry thoroughly with forced air, heat or time before restoring power to the vendor.

# **PARTS LISTING**

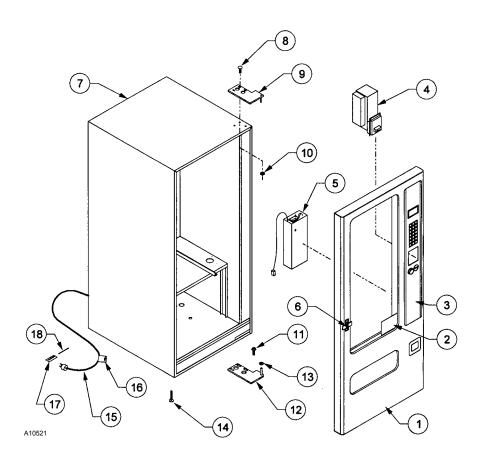
#### **KEY**

ADHV	Adhesive
AP	Attaching Part
CC	Commodity Code
ETW	External Lock Washer
HWH	Hex Washer Head Screw
MS	Machine Screw
PH	Pan Head Screw
TH	Truss Head Screw
VDC	Volt – Direct Current
W/	With
W/O	Without

#### **COMMODITY CODES**

ASAssembly	RARails
BUBushing	RCRefrigeration Component
CBControl Board	RERelay
CLClip	RIRivet
COCompressor	RURubber
CPClamp	SCFastener
ELElectrical Component	SFSign Face
FAFan	SLSlide
FUFuse, Breaker	SMScrew-Machine
GAGasket	SPSpring, Auger
GRGrommet	STStamping, Bracket
HAHarness	SWSwitch
HIHinge	TATape
INInsulation	TCTemperature Control,
LALabel, Tag	Thermostat
LELeg, Leveler	TUTubing
LOLock	WAWasher
LPLamp	WDWood
MAManual	WEWelded Assembly
NUNut	WTWire Tie
PIPin	XFTransformer, Ballast
PLPlastics	, 34

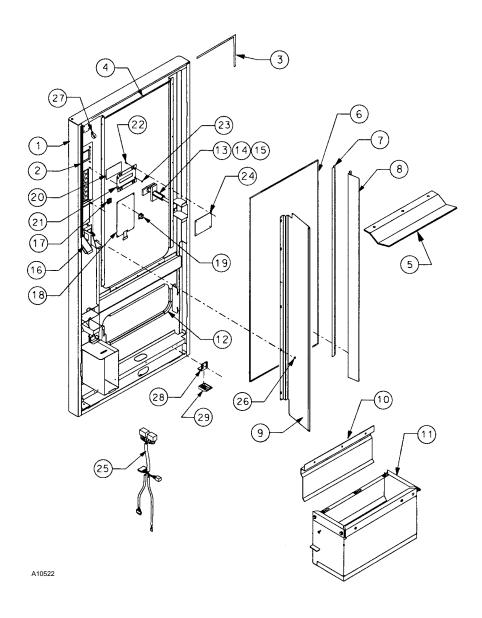
### **FINAL ASSEMBLY**



### **Final Assembly**

ITEM	PART NO.	DESCRIPTION	QTY	CC
1	1215091-003	Door Assembly – Page 41 – 3W	1	AS
	1215091-004	Door Assembly – Page 41 – 4W	1	AS
2	4209595	Lance Service Label	1	LA
3	4210287	Lance Door Decal	1	LA
4	4205536-124	Validator – MDB	1	CM
5	4200419-GX	Coin Mechanism – MDB	1	CM
6	4060328	Lock Cylinder w/2 Keys (Specify Key Series)	1	LO
7	1215090-003	Cabinet Assembly – Page 53 – 3W	1	AS
	1215090-004	Cabinet Assembly – Page 53 – 4W	1	AS
8	4050099	5/16-18x3/4 Carriage Bolt	3	SC
9	1212060-006	Hinge Stake – Top	1	RA
10	8810015	5/16-18 Flange Lock Nut	3	NU
11	8801388	5/16-18 x 3/4 HWH Type D	3	SC
12	1212060-005	Hinge Stake – Bottom	1	RA
13	4050767	3/8 Nylon Flat Washer	1	WA
14	4060310	Leg Leveler	4	LE
15	4203520	Power Cord	1	HA
16	4209439	Power Cord Label (Test for Proper Ground)	1	LA
17	8620494	Tag, Plug – (Warning-Proper Ground)	1	LA
18	4033704	Cable Tie 5.6-in.	1	WT
	Items Placed in bo	ottom of Machine		
	4206816	Safety Manual	1	MA
	4206451	Bulletin – Scroll Lock	1	LA
	4209655	Quick Reference Guide	1	MA
	4209638	Large Popcorn Dual Motor Instructions	1	MA
	8370660-5	Spacer	4	PL
	8370998	Spacer Support	12	WF
	4200281	Spring Clip	12	CL

### **DOOR ASSEMBLY**

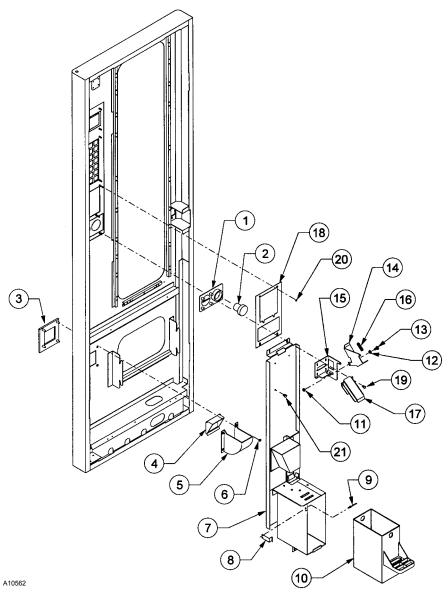


# **Door Assembly**

ITEM	PART NUMBER	DESCRIPTION	QTY	СС
1	1215094-003	Door Weldment – 3W	1	WE
·	1215094-004	Door Weldment – 4W	1	WE
2	4060006-500	1/4 x 1/2-in. Foam Tape	5.5'	TA
3	4202255	Gasket 1/4 x 3/4-in. W/ADHV	A/R	GA
4	1215092-003	Light Assembly – 3W See Page 46	1	WE
	1215092-004	Light Assembly – 4W See Page 46	1	WE
5	4210314-003	Product Deflector – 3W	1	PL
	4210314-004	Product Deflector – 4W	1	PL
6	4203478-003	Display Window 42-in – 3W	1	GL
	4203478-004	Display Window 42-in – 4W	1	GL
7	4203566-003	Window Retainer	2	ST
8	4203485-002	Door Partition – Left	1	ST
9	4207441-001	Anti-Theft – Right	1	ST
10	4203484-007	Bottom Door Deflector – 3W	1	ST
	4203484-008	Bottom Door Deflector – 4W	1	ST
11	1212040-003	Delivery Assembly – 3W – See Page 45	1	AS
	1212040-004	Delivery Assembly – 4W – See Page 45	1	AS
12	4203263	1/4 x 1/2 in. Foam Tape	8	TA
13	4203486	1/4 Turn Handle, Black	1	LO
14	4050338	10-32 x 1/2 in. Phil FH Ms	2	SC
15	4050495	10-32 Nut, Two Way Lock	2	NU
16		Coin Insert Assembly – See Page 43	1	
17	4025741	Push Button	21	PL
18	4203409-002	Keypad – Lance MDB	1	KP
40	4208735	Keypad Mount	1	ST
19	8370959-3	Locking Clamp 3/4-in.	2 1	CP
20 21	4202841-009 4210239	Readout Window (Blue)	1	PL ST
22	4210239	Display Mount Board Standoff-3/8-in.	4	CL
23	8800956	8-32 Hex Nut W/ETW	A/R	NU
24	4200660	Display Board #406721	1	CB
25	4209998	Door Harness	1	НА
26	4050423	8-18 x 3/8 Phil HWH Screw	A/R	SC
20 27	8324099-9	Plastic Wire Clamp 1/2 x 3/4-in.	1	CP
28	4203387	Door Lift Mount	1	ST
29	4025610	Door Glide	1	PL
20	1020010	2001 01100	•	

# **DOOR ASSEMBLY (continued)**

### **Coin Insert Assembly**

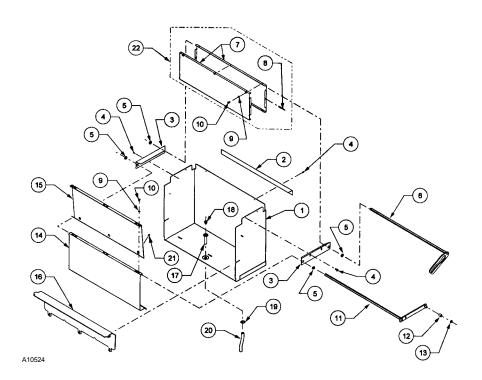


### **Coin Insert Assembly**

ITEM	PART NUMBER	DESCRIPTION	QTY	СС
1	4203186-004	Coin Insert Black (1 1/8-in. Slot)	1	PL
2	4203187	Coin Return Button	1	PL
3	4203209	Coin Cup Bezel	1	PL
4	4203208	Coin Cup Door	1	PL
5	4203207	Coin Cup	1	PL
6	4050747	1/4-in. Stamped Hex Nut	4	NU
7	1214833	Mechanism Mount	1	WE
8	4210216	Latch	1	ST
9	4050667	1/8 x 1/4 Alum Pop Rivet	2	RI
10	4208890	Coin Box - Plastic	1	PL
11	4050511	8-32 Nut-Two Way Lock	1	NU
12	4030100	Bushing-Spacer	1	BU
13	4050240	8-32 x 3/8 Phil PH MS	1	SC
14	4208726	Coin Return Lever	1	ST
15	4208727	Coin Chute Mount	1	ST
16	4021020	Spring 9/32 x 1 3/32-in.	1	SP
17	1212097-001	Coin Chute	1	WE
18	4208734	Coin Insert Mount	1	ST
19	4201942	6-20 x 3/16 Phil PH Type-B	2	SC
20	8800956	8-32 Hex Nut W/ETW	14	NU
21	4050423	8-18 x 3/8 Phil PH Type-AB	A/R	SC

# **DOOR ASSEMBLY (continued)**

### **Delivery Assembly**

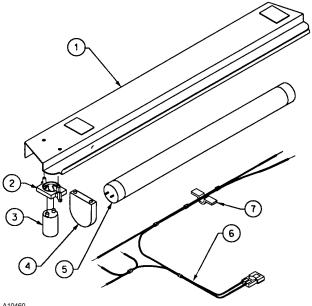


# **Delivery Assembly**

1212040-003         Delivery Assembly – 3W         AS           1212040-004         Delivery Assembly – 4W         AS           1         1212037-003         Delivery Weldment – 3W         1         WE           2         4203436-003         Rear Delivery Deflector – 3W         1         ST           4203436-004         Rear Delivery Deflector – 4W         1         ST           3         4203379         Delivery Mount         2         ST           4         4050423         8-18 x 3/8 Phil PH TY-AB         6         SC           5         4025263         Type 7 Nyliner-Snap in Plastic Bushing         4         BU           6         1212039-003         Cam/Rod Weldment – 3W         1         WE           1212039-004         Cam/Rod Weldment – 3W         1         WE           12120207-003         Del Anti-Cheat – 3W         2         ST           4210207-004         Del Anti-Cheat – 4W         2         ST           4050663         1/8 x 1/4-in. Aluminum Pop Rivet         5         RI           8         4050663         1/8 x 1/4-in. Aluminum Pop Rivet         5         RI           9         8801011         #8 Flat Washer         6         WA           1	ITEM	PART NO.	DESCRIPTION	QTY	СС
1       1212037-003       Delivery Weldment – 3W       1       WE         2       4203436-003       Rear Delivery Deflector – 3W       1       ST         4203436-004       Rear Delivery Deflector – 4W       1       ST         3       4203379       Delivery Mount       2       ST         4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 4W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delive		1212040-003	Delivery Assembly – 3W		AS
1212037-004       Delivery Weldment – 4W       1       WE         2       4203436-003       Rear Delivery Deflector – 3W       1       ST         4203436-004       Rear Delivery Deflector – 4W       1       ST         3       4203379       Delivery Mount       2       ST         4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-004       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.		1212040-004	Delivery Assembly – 4W		AS
2       4203436-003       Rear Delivery Deflector – 3W       1       ST         4203436-004       Rear Delivery Deflector – 4W       1       ST         3       4203379       Delivery Mount       2       ST         4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Del	1	1212037-003	Delivery Weldment – 3W	1	WE
4203436-004       Rear Delivery Deflector – 4W       1       ST         3       4203379       Delivery Mount       2       ST         4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-003       Del		1212037-004	Delivery Weldment – 4W	1	WE
3       4203379       Delivery Mount       2       ST         4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         16	2	4203436-003	Rear Delivery Deflector – 3W	1	ST
4       4050423       8-18 x 3/8 Phil PH TY-AB       6       SC         5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Boor Weldment – 3W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4203377-003       Delivery Palse Box – 3W       1       ST         16       4203377-004		4203436-004	Rear Delivery Deflector – 4W	1	ST
5       4025263       Type 7 Nyliner-Snap in Plastic Bushing       4       BU         6       1212039-003       Cam/Rod Weldment – 3W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12 4208947       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4203377-004       Delivery Palse Box – 3W       1       ST         16       4203377-004       Delivery False Box – 4W       1       ST         17       4201887	3	4203379	Delivery Mount	2	ST
6       1212039-003       Cam/Rod Weldment – 3W       1       WE         1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         1215157-004       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4203377-004       Delivery Palse Box – 3W       1       ST         16       4203377-004       Delivery False Box – 4W	4	4050423	8-18 x 3/8 Phil PH TY-AB	6	SC
1212039-004       Cam/Rod Weldment – 4W       1       WE         7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12 4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-004       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       FI         18       4060411       Screen – Drain Tube       1	5	4025263	Type 7 Nyliner-Snap in Plastic Bushing	4	BU
7       4210207-003       Del Anti-Cheat – 3W       2       ST         4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12 4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-004       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut	6	1212039-003	Cam/Rod Weldment – 3W	1	WE
4210207-004       Del Anti-Cheat – 4W       2       ST         8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12 4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing <td></td> <td>1212039-004</td> <td>Cam/Rod Weldment – 4W</td> <td>1</td> <td>WE</td>		1212039-004	Cam/Rod Weldment – 4W	1	WE
8       4050663       1/8 x 1/4-in. Aluminum Pop Rivet       5       RI         9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       4208947       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-003       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       405409	7	4210207-003	Del Anti-Cheat – 3W	2	ST
9       8801011       #8 Flat Washer       6       WA         10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       125157-004       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202 <td< td=""><td></td><td>4210207-004</td><td>Del Anti-Cheat – 4W</td><td>2</td><td>ST</td></td<>		4210207-004	Del Anti-Cheat – 4W	2	ST
10       4050239       8-32 x 3/8 Phil PH Type-T       6       SC         11       1215157-003       Follower Weldment – 3W       1       WE         12       1215157-004       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4203377-004       Delivery Door Brace – 4W       1       ST         16       4203377-004       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22	8	4050663	1/8 x 1/4-in. Aluminum Pop Rivet	5	RI
11       1215157-003       Follower Weldment – 3W       1       WE         12       1215157-004       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS   <	9	8801011	#8 Flat Washer	6	WA
1215157-004       Follower Weldment – 4W       1       WE         12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         15       4210387-004       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	10	4050239	8-32 x 3/8 Phil PH Type-T	6	SC
12       4208947       Delivery Bushing       1       BU         13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	11	1215157-003	Follower Weldment – 3W	1	WE
13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS		1215157-004	Follower Weldment – 4W	1	WE
13       8801080       E-Ring 5/16-in.       1       RR         14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         17       4201887       Drain Tube       1       ST         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	12	4208947	Delivery Bushing	1	BU
14       1212041-003       Delivery Door Weldment – 3W       1       WE         1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	13	8801080	,	1	RR
1212041-004       Delivery Door Weldment – 4W       1       WE         15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	14	1212041-003	3	1	WE
15       4210387-003       Delivery Door Brace – 3W       1       ST         4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS		1212041-004	•	1	WE
4210387-004       Delivery Door Brace – 4W       1       ST         16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	15		•		
16       4203377-003       Delivery False Box – 3W       1       ST         4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS		4210387-004	•	1	ST
4203377-004       Delivery False Box – 4W       1       ST         17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	16		•		
17       4201887       Drain Tube       1       PL         18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS			•	1	
18       4060411       Screen – Drain Tube       1       FI         19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS	17		•		
19       4202284       .50 Dia. Stud Push Nut       1       NU         20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS			Screen – Drain Tube	1	
20       4025409-500       3/8 x 4-in. Plastic Tubing       1       TU         21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS				-	
21       4050202       8-18 x 1/2 Phil HWH TEK       3       SC         22       1215224-003       Delivery Anti-Cheat Rivet Assembly – 3W       1       AS				-	
22 1215224-003 Delivery Anti-Cheat Rivet Assembly – 3W 1 AS			•	•	
TO TO CASE THE TRUNCAL TO THE TOTAL ASSESSMENT OF THE ASSESSMENT O		1215224-003	Delivery Anti-Cheat Rivet Assembly – 4W	1	AS

# **DOOR ASSEMBLY (continued)**

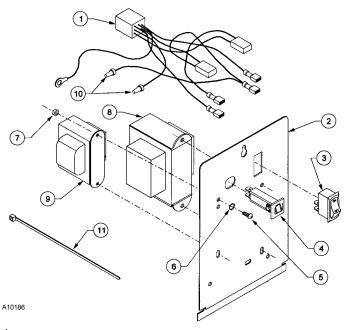
### **Light Assembly**



Α1	04	60

ITEM	PART NO.	DESCRIPTION	QTY	СС
	1215092-003 1215092-004	Light Assembly – 3W Light Assembly – 4W	1 1	AS AS
1	1215093-003 1215093-004	Light Reflector Assy – 3W Light Reflector Assy – 4W	1 1	WE WE
2	4208884	Starter Socket	1	EL
3	4033567	Starter – FS-2 – 3W	1	EL
	4033661	Starter – 4W	1	EL
4	4207171	Lamp Socket	2	EL
5	4033668	Lamp F14T8/Cw - 3W	1	LP
	4033549	Lamp F18T8/Cw - 4W	1	LP
6	4208807-003	Lamp Harness - 3W	1	HA
	4208807-004	Lamp Harness - 4W	1	HA
7	4060130	Press Clip-1/4-in.	2	CL

### **POWER PANEL ASSEMBLY**

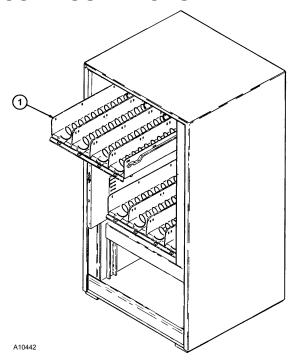


ITEM	PART NO.	DESCRIPTION	3W QTY	4W QTY	СС
	1214528-110	Power Assy/110v/3W/DOM/A	1		AS
	1214528	Power Assy/110v/4W/DOM/A		1	AS
1	4209153	Power Panel Harness	1	1	HA
2	4208695	Power Panel	1	1	ST
3	4202088	Switch - Rocker	1	1	SW
4	4203467-003	3 Amp Circuit Breaker	1	1	FU
5	4050240	8-32 x 3/8 Phil PH MS	5	5	SC
6	4050585	#8 External Tooth Lockwasher	5	5	WA
7	8800956	8-32 Hex Nut W/ ETW	5	5	NU
8	4206570-000	Transformer– 110 V	1	1	XF
9	4033609	Ballast SP2 – 3W	1		XF
	4033669	Ballast - 4W		1	XF
10	4033505	Closed End Splice Cap	2	2	EL
11	4033712	Cable Tie 7 3/8-in.	1	1	WT

### **ACCESSORIES AND KITS**

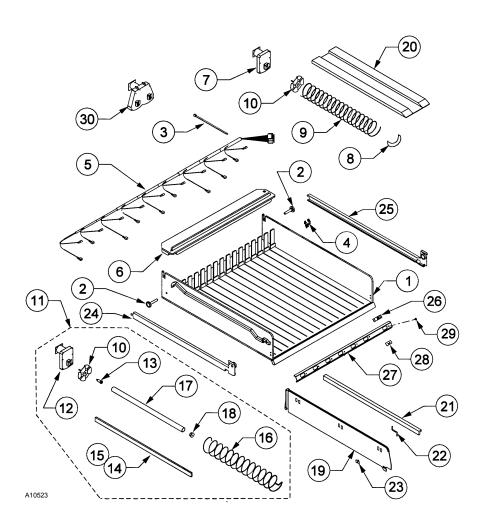
KIT NUMBER	DESCRIPTION
1200137-078	2 Sandwich Snacks (18) to Large snack 12 Kit
1200137-141	Timer Kit
1200137-142	Timer Kit (without Timer)
1200137-143	Large Snack (12) to 2 Sandwich Snacks (18) Kit
1200137-144	Line Filter Kit
1200137-145	Knock-out Kit
1200137-147	Sandwich Snack (18) to Split Helix (40) Kit
1200137-148	Split Helix (40) to Sandwich Snack (18) Kit
1200137-149	Rain Guard Kit
1200137-168	Tray Latch Kit
1200137-207	Popcorn Deflector Kit (3053)
1200137-208	Popcorn Deflector Kit (3054)
1200137-374	Double Door Kit (3053)
1200137-375	Double Door Kit (3054)

### TRAY CONFIGURATIONS



ITEM	PART NO.	DESCRIPTION	QTY	СС
1	1214800-003	Tray Configuration 3W		
	1212048-302	Tray Assembly - 3-W -12 Select Candy	1	AS
	1212048-303	Tray Assembly - 3-W - 18 Select Candy	2	AS
	1214801	Tray Assembly - 3-W – 11/18/10 Dual Select Candy	1	AS
	1214801-003	Tray Assembly - 3-W - 11 Select Snack	1	AS
	1214801-004	Tray Assembly - 3-W – 10 Select Snack	1	AS
	1214800-004	Tray Configuration 4W		
	1212048-402	Tray Assembly - 4-W -12 Select Candy	1	AS
	1212048-403	Tray Assembly - 4-W - 18 Select Candy	2	AS
	1214801-001	Tray Assembly - 4-W – 11/18/10 Dual Select Candy	1	AS
	1214801-002	Tray Assembly - 4-W - 11 Select Snack	1	AS
	1214801-005	Tray Assembly - 4-W - 10 Select Snack	1	AS

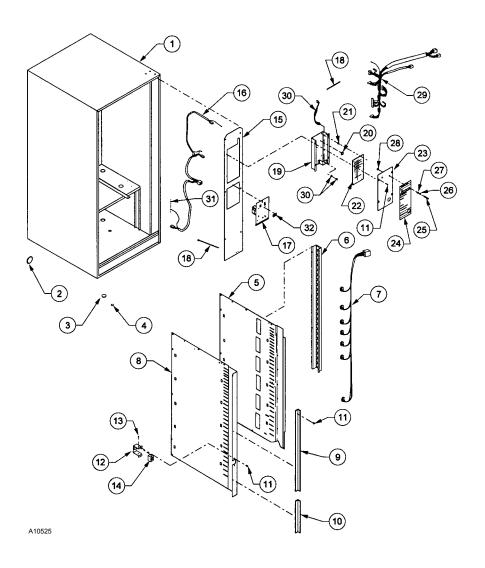
#### TRAY ASSEMBLY - 3- AND 4-WIDE



# Tray Assembly – 3- and 4-Wide

ITEM	PART NO.	DESCRIPTION	3-W	4-W	СС
1	4203275	Product Tray – 3-W	1		PL
·	4203276	Product Tray – 4-W	•	1	PL
2	4060670-004	Roller	2	2	PL
3	4203509	Cable Tie 5-in.	1	1	WT
4	4203468	Snap in Clip	1	1	CL
5	4203508-003	Tray Harness – 3-W	1		HA
	4203508-004	Tray Harness – 4-W		1	HA
6	4203277-003	Motor Cover – 3-W	1		PL
	4203277-004	Motor Cover – 4-W		1	PL
7	4034388	24 VDC Motor - 360 Degree	A/R	A/R	MO
8	4025748	Product Pusher/Ejector	A/R	A/R	PL
9	4200272-031	Auger - 10 Select - Candy	A/R	A/R	WF
	4205532-031	Auger - 10 Select - Candy –Right Hand	A/R	A/R	WF
	4200272-004	Auger - 12 Select - Candy	A/R	A/R	WF
	4200272-001	Auger - 18 Select - Candy	A/R	A/R	WF
	4200272-007	Auger - 10 Select - Snack	A/R	A/R	WF
40	4200272-037	Auger - 11 Select - Snack	A/R	A/R	WF
10 11	4202015	Auger Coupling	A/R A/R	A/R A/R	PL
12	1200137-147 4034388-001	Snack to Split Auger 40 Kit 24 VDC Motor - 180 Degree - G & M	A/R A/R	A/R A/R	МО
13	4200164-000	#8-32 x 1-1/4 Shoulder Screw	A/R	A/R	SC
14	4202624-001	Gum & Mint Spacer Strip	A/R	A/R	PL
15	4202024-001	1/32 x 3/8-in. Foam Tape, AP for item 14	A/R	A/R	TA
16	4202313-007	Auger - 40 Select - Gum & Mint	A/R	A/R	WF
17	4202625-001	Gum & Mint Helix Tube	A/R	A/R	PL
18	4203103	End Cap	A/R	A/R	PL
19	4025797	Product Divider	A/R	A/R	PL
20	4200340	Helix Retainer	A/R	A/R	PL
21	8370660-5	Spacer	A/R	A/R	PL
22	8370998	Spacer Support	A/R	A/R	WF
23	4200281	Spring Clip	A/R	A/R	CL
24	1200321-002	Tray Rail - Left Side	1	1	RA
25	1200321-003	Tray Rail - Right Side	1	1	RA
26	4203341	Price Scroll – 5-95	A/R	A/R	LA
27	4203229-003	Label Holder – 3-W	1		PL
	4203229-004	Label Holder – 4-W		1	PL
28	4203707	Selection Identification Label	1	1	LA
29	4205749	Scroll Lock - Bumpers	A/R	A/R	RU
30	4205436	Dual Helix Motor	A/R	A/R	МО

#### **CABINET ASSEMBLY**



### **Cabinet Assembly**

ITEM	PART NO.	DESCRIPTION	3W QTY	4W QTY	СС
	1215090-003	Cabinet Assembly – 3W	1		AS
	1215090-004	Cabinet Assembly – 4W		1	AS
1	1211432-009	Cabinet Weldment – 3W	1		WE
	1211432-011	Cabinet Weldment – 4W		1	WE
2	7250135-007	Hole Plug 2-1/4-in.	2	2	PL
3	7250135-000	Hole Plug 1 3/8-in.	2	2	PL
4	7250135-001	Hole Plug 1/2-in.	3	3	PL
5	4203135-002	Right Side Panel	1	1	ST
6	4203143	Tray Receptacle	1	1	ST
7	4203616	Main Harness	1	1	HA
8	1212109-002	Left Side Panel	1	1	WE
9	4203645-001	Anti-Cheat – Long	1	1	ST
10	4203645	Anti-Cheat – Short	1	1	ST
11	4050423	8-18 x 3/8 Phil PH Type-AB	A/R	A/R	ST
12	4203255	Nut Mount Assembly	1	1	ST
13	8800638	10-16 x 3/8 Phil PH Type B	2	2	SC
14	4203634	Split Nut Assy	1	1	NU
15	4210029	Control Panel	1	1	ST
16	4210028	Power Harness	1	1	HA
17	1214528-xxx	Power Panel Assembly – See Page 47	1	1	AS
18	4203509	Cable Tie 5-in.	2	2	WT
19	1214269	Controller Mount Weldment	1	1	WD
20	4200238	Self Adhesive Feet	1	1	PL
21	4025723	Controller Standoff	5	5	HW
22	4207895	Control Board	1	1	CB
23	4207896	Controller Cover	1	1	ST
24 25	4207880	Controller Instructions	1 1	1 1	LA PL
26	4203144	Mode Button	1	1	WF
26 27	4021017	Spring	1	1	BU
28	4203181	1/4-in. ID Snap Bushing 1/4-in. Nut	1	1	NU
29	4203477	Control Harness	1	1	HA
30	4207899 4207902		1	1	НА
30 31	4207902	Dex Harness (Includes Washer and Nut) #8 External Tooth Lock Washer (Used	2	2	WA
31		on Grounding Wire)		_	
32	8620711	Power Switch Warning Decal	1	1	DE