

Single Basket Dispenser Service and Parts Manual







Frymaster, a member of the Commercial Food Equipment Service Association, recommends using CFESA Certified Technicians.

24-Hour Service Hotline 1-800-551-8633





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DANGER

FOR YOUR SAFETY, DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE LIQUIDS OR VAPORS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

THIS EQUIPMENT IS TO BE INSTALLED IN COMPLIANCE WITH THE BASIC PLUMBING CODE OF THE BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC. (BOCA) AND THE FOOD SERVICE SANITATION MANUAL OF THE FOOD AND DRUG ADMINISTRATION.

COMPUTERS FCC

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1) This device may not cause harmful interference, and 2) This device must accept any interference received, including interference that may cause undesired operation. While this device is a verified Class A device, it has been shown to meet the Class B limits.

CANADA

This digital apparatus does not exceed the Class A or B limits for radio noise emissions as set out by the ICES-003 standard of the Canadian Department of Communications.

Cet appareil numerique n'emet pas de bruits radioelectriques depassany les limites de classe A et B prescrites dans la norme NMB-003 edictee par le Ministre des Communcations du Canada.

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Sin So II SINGLE BASKET DISPENSERS CHAPTER 1: TECHNICIAN TROUBLESHOOTING

1.1 Functional Description

When the unit is plugged into an electrical outlet, line voltage is supplied to the transformer. Placing the ON/OFF switch in the ON position supplies 24VAC to the motor interface board. The motor interface board supplies 12VDC to the controller and 24VDC to the dispense motor and drum motor. The drum motor will activate briefly as the computer in the controller "wakes up," then motor logic circuits in the controller will turn it back off. If closed, the dispensing chute door will open and remain open.

When the ON/OFF switch is placed in the ON position, the controller automatically enters the STANDBY mode. When in the STANDBY mode, the batch weight selector switch circuits are disabled and the CLEAN and PROGRAM circuits are enabled. No indicator LEDs are illuminated when the unit is in the STANDBY mode.

Pressing the RUN switch places the controller in the RUN mode and causes the RUN mode indicator above the switch to illuminate. Every time the unit is placed in the RUN mode, the controller will perform an initialization process to "zero" the load cell. The dispensing chute door will open and remain open throughout the process to ensure accuracy. When in the RUN mode, the batch weight selector switch circuits are enabled and the CLEAN and PROGRAM circuits are disabled.

The load cell is an aluminum bar that acts as a bridge resistor. One end of the load cell is fixed. The load cell arms, dispensing chute, and dispense motor are attached to the opposite end. Their weight causes a slight distortion of the bar, which changes the bar's resistance.

During the zeroing process, circuitry in the controller measures the resistance associated with the weight of the empty dispensing chute, the dispense motor, and the load cell arms. It compares this to a factory-programmed resistance range and, if within the range, records this as the "zero" value. If the resistance is outside of tolerance, the unit goes into a zero failure mode, signified by blinking of the RUN mode indicator and the PROGRAM mode indicator.

During programming of the batch selector switches, the controller measures the difference between the previously determined "zero" resistance and the resistance associated with the new weight. It records the differential so that a batch weight always corresponds to the "zero" resistance plus the differential resistance, not a specific resistance value. This avoids erratic batches caused by fluctuations in the "zero" weight.

When a batch weight selector is pressed, the controller activates the drum motor to transfer fries to the dispensing chute. When the fries enter the chute, their weight further distorts the load cell, causing a change in resistance. When the resistance is equal to the "zero" resistance plus the resistance differential associated with the batch weight selector pressed, the controller signals the drum motor to stop.

A proximity sensor at the rear of the dispensing well senses when a basket has been inserted into the well. It signals the controller, which in turn activates the dispense motor to dump the fries. When the door reaches the full open position, a flag on the dispense motor shaft is detected by a Hall effect sensor that signals the controller. The controller in turn reverses the current to the motor, closing the door. When the door reaches the closed position, another Hall effect sensor detects the flag on the motor shaft and signals the controller. The controller reduces power to the dispense motor to approximately 1VDC, causing the motor to hold the door closed. A built-in 1½-second delay allows the load cell to stabilize before the controller reactivates the drum motor to reload the dispensing chute. If a basket has been pre-positioned beneath the dispensing chute, the unit will dispense the batch as soon as the load cell is satisfied and begin loading another batch. The

second batch will be held until the first basket is removed and another basket is inserted. The process continues until the unit is placed in the STANDBY mode or the ON/OFF switch is placed in the OFF position.

1.2 Troubleshooting and Problem Isolation

This section is intended to provide technicians with a general knowledge of the broad problem categories associated with this equipment, and the probable causes of each.

Problems you are likely to encounter can be grouped into three broad categories:

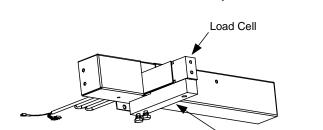
- a. Failures to "zero" (unit does not properly initialize when the unit is turned on)
- b. Erratic or inaccurate batch weights (the weight of dispensed batches is incorrect)
- c. Failures to function (the unit or one of its components does not operate at all or malfunctions)

A series of troubleshooting guides is also included at the end of the chapter to assist in identifying some of the more common problems.

1.2.1 Failures to "Zero"

As discussed in Section 1.1, the unit determines batch weights by comparing the load cell resistance to a prerecorded resistance value equal to the empty or "zero" resistance value plus a resistance differential value corresponding to a particular batch weight. When the load cell resistance is equal to the "zero" resistance plus the resistance differential, the load cell is "satisfied" and the drum motor is stopped. Although each load cell is theoretically identical, in actuality any given cell may have a slightly different resistance from any other cell. Consequently, the cell must be "zeroed" to determine and record its actual resistance in order to ensure accurate batch weights. The unit must be "zeroed" with the dispense chute in place, and no part of the dispense chute may be in contact with the cabinet.

The load cell itself is basically an aluminum bar. When not under stress, it has a particular resistance. When the bar is vertically distorted by applying weight to one end, the resistance changes. Also, if the bar contacts any other component, such as the end of the dispense motor shaft, its resistance will be changed, forcing it outside the acceptable range. Circuitry within the controller measures the load cell resistance and compares this to a factory-programmed (and very narrow) range. As long as the load cell resistance falls within this range, the unit will "zero."



Load Cell Brace

Load Cell Assembly

Other than the load cell or an associated component being in contact with something it shouldn't, there are only two probable causes for failing to "zero." The first is a failed load cell. Failure may be caused by bending of the cell or by damage to the cabling. Because the resistance range is narrow, it is usually impossible to see the damage, so the appearance of the load cell is not a good indicator of load cell failure, although an obviously damaged cell is immediately suspect. If the load cell is good, the only other cause is a malfunctioning controller. If the controller cannot measure load cell resistance or loses the programmed

resistance range, it cannot "zero." In either situation, the only solution is to replace the failed component, but before doing that perform the following checks:

- a. Verify the load cell brace is not touching the end of the dispense motor shaft. (Do this by trying to insert a piece of paper between the two. If it can be inserted without drag, it's okay.)
- b. Verify no part of the dispense chute is touching the cabinet.

A Load Cell Simulator Kit (P/N 826-1746) is available to help technicians determine if the problem is with the load cell or the controller. Detailed instructions for using the simulator are included with the kit.

If a simulator is not available, the recommended method of isolating the failed component is by substitution, starting with the controller. It is not necessary to install a controller to test it. Simply plug the cabling into the new controller. If the unit "zeroes," the controller in the unit has failed and should be replaced with the new one; if not, it is most likely the load cell that has failed.

If the unit "zeroes" sometimes but fails at others, check for a loose connection at the controller.

1.2.2 Erratic or Inaccurate Batch Weights

The probable causes of erratic or inaccurate batch weights are bumping or jarring of the unit while the drum motor is running and improper programming of the batch weight selectors.

The unit should be positioned in an area where it is not likely to be bumped or jarred during operation. If erratic or inaccurate batch weights occur at random intervals, it is likely that the unit is being bumped or jarred by workers. The only solutions in this case are to move the unit or better educate employees about the effects of bumping the unit during operation.

If the erratic or inaccurate batch weights occur at specific times, or if the problem comes and goes, it may be that there is a source of unusual vibration. Two things to consider are facility location (e.g., is it close to a railroad track or to a highway where heavy trucks pass on a regular schedule) and unit location (e.g., is it next to a heavy door that slams shut), etc. In the case of facility location not much can be done, although it may be possible to dampen the vibrations by placing the unit on a thick pad. In the case of unit location, consider moving the unit.

If erratic or inaccurate batch weights occur consistently, it is likely that one or more of the batch weight selectors have been improperly programmed. Verify that the selectors have been properly programmed in accordance with the instructions in Chapter 3 of the Installation and Operation Manual furnished with the unit.

1.2.3 Failures to Function and Improper Functioning

The probable causes of this category of problem are improper connections and failed components. If you have not already done so, you should read Section 1.1 (the system theory of operation) before continuing with this section.

The paragraphs that follow identify the general types of failures that may be encountered and the possible causes of each. Troubleshooting Guides at the end of the chapter provide step-by-step problem-isolation procedures.

Failure of the unit to initialize when ON/OFF switch is placed in ON position can be caused by failure of a component in the input power circuit or failure of the controller. When the ON/OFF switch is placed in the

ON position the two error conditions that may be encountered are that the drum motor does not activate at all or it runs continuously.

Normally when the ON/OFF switch is placed in the ON position, the drum motor briefly activates (approximately 2 seconds) then stops. If the drum motor runs continuously as soon as the ON/OFF switch is placed in the ON position, there are three probable causes. The first is that 12VDC is not getting to the controller from the motor interface board. The second is that the controller has failed. The third is that controller signals are not reaching the motor drive circuits.

If the drum motor does not activate at all, the probable causes are failure of a component in the input power circuit.

Failures of the dispense chute door to open or close are caused by problems with the Hall effect sensors, the proximity sensor, the dispense motor, the motor interface board, or the controller. The primary indication of a problem involving the "closed" Hall effect sensor (J8 on the controller) is the partial closing of the door following the "zero" routine or the removal and replacement of a basket during normal operation.

A failed "open" Hall effect sensor (J8 on the controller) is indicated by the normal "zeroing" of the unit and loading of the dispense chute, but failure of the door to open to dispense the fries. A failed proximity sensor will give the same indication, so care must be taken to differentiate between the two.

If the Hall effect sensors have been ruled out as the cause of the failure to function, the most likely cause is a motor-related problem.

Failures of the drum motor to start or stop are caused by problems in the controller, load cell, motor interface board, or drum motor and the associated wiring. If the motor fails to stop, the problem is not with the motor. It may be with the controller, the load cell, or the motor interface board.

1.3 Troubleshooting Guides

The Troubleshooting Guides that follow provide a systematic method for isolating specific problems and the action(s) to take to correct them. Also, don't forget the Operator Troubleshooting Guides found in Chapter 3. Most problems likely to be encountered are covered in these two sets.

However, don't hesitate to call the **Frymaster** Technical Services Department at 1-800-551-8633 if you need assistance in solving a particular problem.

Problem		Probable Causes		Corrective Action
	A.	Failed power cord.	A.	Replace the power cord.
				-
		Test : Check for line voltage on the		
		line side of the line filter. If not pres-		
	D	ent, the power cord has failed. Failed line filter.	D	Danlaga tha lina filtan
	В.	Failed line fifter.	В.	Replace the line filter.
		Test : Check for line voltage on the		
		line side of the filter and on the load		
		side. If line voltage is present on the		
		line side but not the load side, the fil-		
		ter has failed.		
	C.	Failed ON/OFF switch.	C.	Replace the ON/OFF switch.
		Test : Check for line voltage on the		
		load side of the line filter and on the		
		transformer brown and blue wires. If		
		line voltage is present on the load side		
NO POWER WITH		of the filter but not on the transformer		
UNIT VERIFIED TO		brown and blue wires, the switch has		
BE PLUGGED IN	_	failed.	_	
AND CIRCUIT	D.	Failed transformer.	D.	Replace the transformer.
BREAKER VERIFIED		Test : Check for line voltage on the		
TO BE ON.		transformer brown and blue wires		
		and 24VAC on the black and orange		
		wires and 12VAC on the black and		
		yellow wires. If line voltage is pres-		
		ent on the transformer brown and blue		
		wires, and either of the other two		
		voltages is incorrect, the transformer		
	_	has failed.	_	
	E.	Failed motor interface board.	E.	Replace the motor interface board.
		Test : Check for 12VDC on connector		
		J3 of the board. If voltage is incor-		
		rect, the board has failed.		
	F.	Failed 12VDC power cable.	F.	Replace the 12VDC power cable.
		Test : Check for 12VDC on connector		
		J3 of the motor interface board. If		
		voltage is correct, the 12VDC power		
		cable has failed.		

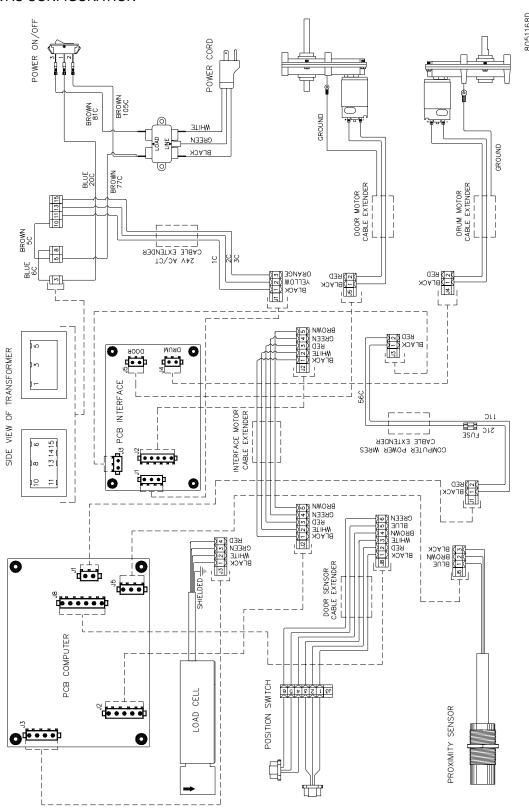
Problem	Probable Causes	Corrective Action
Troblem	A. Failed controller.	A. Replace the controller.
	Test 1: If a load cell simulator is available, disconnect the load cell from the controller and connect the simulator. Turn unit off then back or using the ON/OFF switch. Press the RUN switch. If the unit does not zero, the controller has failed. Test 2: If a load cell simulator is no available, turn unit off them back on using the ON/OFF switch. Press the RUN switch and look for the following conditions: 1. Drum motor activates briefly, then stops. 2. Indicators in RUN switch and PROGRAM switch do not flash. If both conditions are true, the	NOTE: Before installing a new controller, plug the cabling into the new controller, turn the unit off then back on using the ON/OFF switch, and press the RUN switch. If the unit zeroes, the diagnosis is confirmed and the replacement computer can then be installed. If the unit still does not zero, the problem is not with the controller.
	controller is suspect. B. Failed load cell.	B. Replace the load cell.
	B. Tanea load cen.	B. Replace the load cell.
UNIT WILL NOT ZERO.	Test 1: If a load cell simulator is available, disconnect the load cell from the controller and connect the simulator. Turn unit off then back or using the ON/OFF switch. Press the RUN switch. If the unit zeroes, the load cell is suspect.	•
	 Test 2: If a load cell simulator is no available, turn unit off then back on using the ON/OFF switch. Press the RUN switch and look for the following conditions: 1. Drum motor activates briefly, then stops. 2. Indicators in RUN switch and PROGRAM switch flash. If both conditions are true, and a piece of paper can be inserted between the dispense motor shaft and the load cell brace, the load cell has failed. 	
	C. Loose or broken load cell cable.	C. If the cable is loose, reconnect it. If the cable is broken, replace the
	Test: Check connection to verify the the cable is securely plugged into connector J3 on the controller.	

Problem	Probable Causes	Corrective Action
	A. Unit is located in an area where it is being bumped or jarred during operation.	A. Relocate unit to an area where it is less likely to be bumped or jarred during operation. Ensure unit is not in contact with adjacent walls.
BATCH WEIGHTS ARE INCONSISTENT OR INACCURATE.	B. Unit is in an area subject to unusual environmental vibration, such as adjacent to a railroad track or near a major highway.	B. Placing the unit on a thick mat may lessen the effect of environmental vibrations.
	 Batch weight selectors are incorrectly programmed. 	C. Reprogram batch weights in accordance with Section 2.4 of the Installation and Operation Manual.
	A. 12VDC is not getting to the controller.	 D. Failed Test 1 – Replace the motor interface board.
	Test 1 : Check for 12VDC at motor interface board connector J3. If voltage is not present, probable cause is failure of the motor interface board If voltage is present, perform Test 2.	
DRUM MOTOR RUNS CONTINUOUSLY AS SOON AS THE ON/OFF SWITCH IS PLACED IN THE ON POSITION.	Test 2: Check for 12VDC at the controller end of the 12VDC cable. I voltage is present on connector J3 but not at controller end of the cable, the cable has failed. If voltage is present at the controller end of the cable the controller is suspect. Go to B.	
	B. Failed controller. Test: Substitute new controller for suspect controller. Turn unit off and back on using the ON/OFF switch. Press RUN switch. If unit functions correctly, the controller has failed.	E. Replace the controller.
	A. Failed drum motor.	A. Replace the drum motor.
DRUM MOTOR DOES	Test : With loading chute empty, turn the unit off then back on using the ON/OFF switch. Press the RUN switch. Check for 24VDC at motor end of drum motor cable. If voltage i present, the drum motor has failed.	
NOT ACTIVATE AT ALL.	B. Failed motor interface board.	B. Replace the motor interface board.
	Test : Check for 24VAC at connector J1 of the motor interface board. If voltage is present and a motor known to be good does not activate when RUN switch is pressed, the motor interface board may have failed.	motor interface board, check the

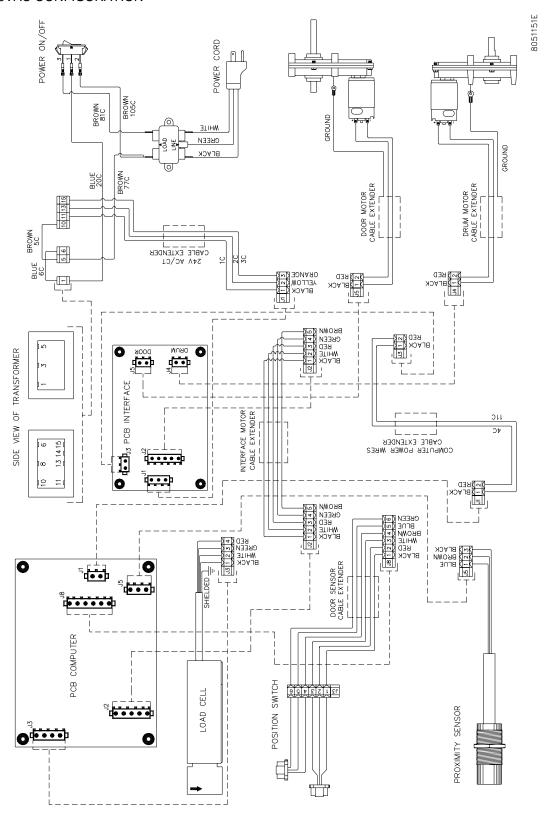
Problem	Probable Causes	Corrective Action
	A. Failed dispense motor.	A. Replace the dispense motor.
	Test: Turn the unit off then back on using the ON/OFF switch, then press the RUN switch. After the unit zeroes, check for 24-35VDC on the motor end of the dispense motor cable. If voltage is present, the dispense motor has failed. B. Failed motor interface board or	B. Replace the motor interface board
	dispense motor cable.	or dispense motor cable as
DISPENSE CHUTE DOOR DOES NOT CLOSE AFTER A BATCH HAS BEEN DISPENSED. (If the door did not close after the unit was first started and the LEDs in the RUN and PROGRAM switches are flashing, refer section B (Failed Load Cell) on Page 1-6.)	Test: Turn the unit off then back on using the ON/OFF switch, then press the RUN switch. After the unit zeroes, check for 24-35VDC on J5 of the motor interface board. If voltage is not present, the motor interface board has failed. If voltage is present the dispense motor cable has failed. C. Failed/misaligned lower Hall effect sensor. Test: If the unit zeroes and the door partially closes, the lower Hall effect sensor is out of alignment or has failed.	C. Realign or replace the lower Hall effect sensor as necessary.
	D. Failed controller.	D. Replace the controller.
	Test: Disconnect the cables from the suspect controller and connect them to a controller known to be good. Turn the unit off then back on using the ON/OFF switch, the press the RUN switch. If the unit operates correctly, the controller has failed.	

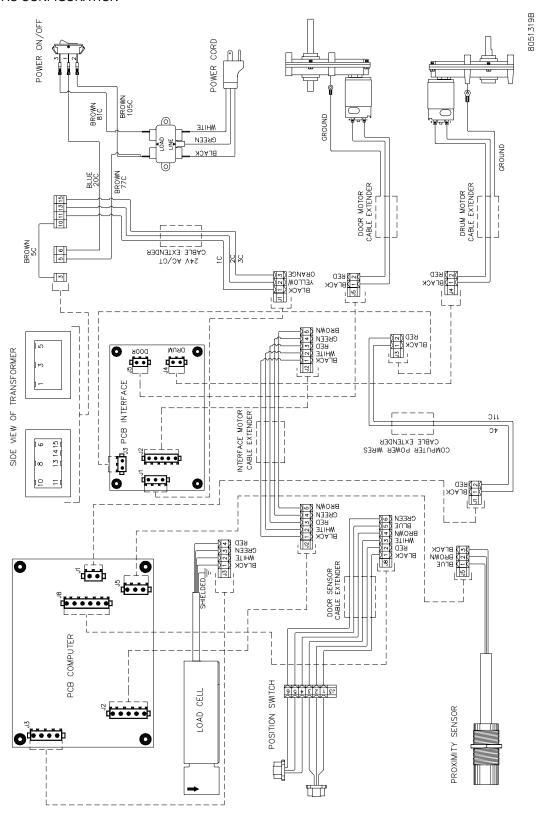
1.4 Wiring Diagrams

100VAC CONFIGURATION

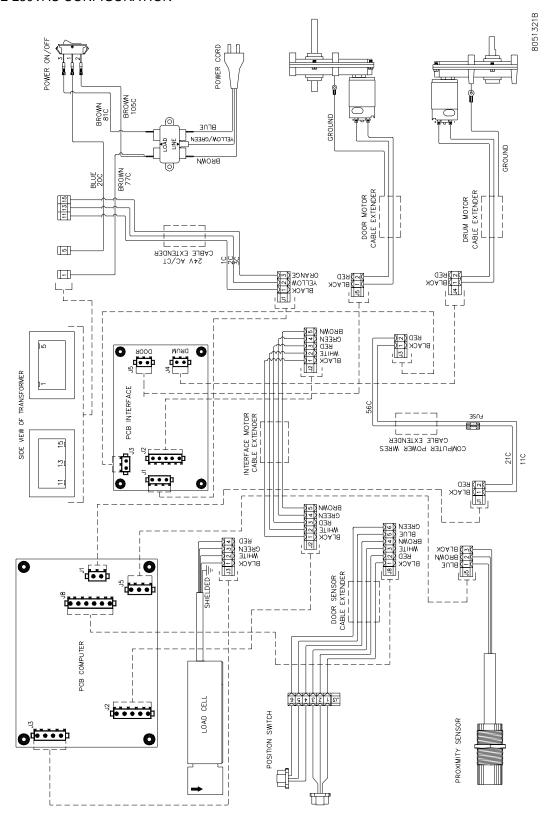


115VAC CONFIGURATION

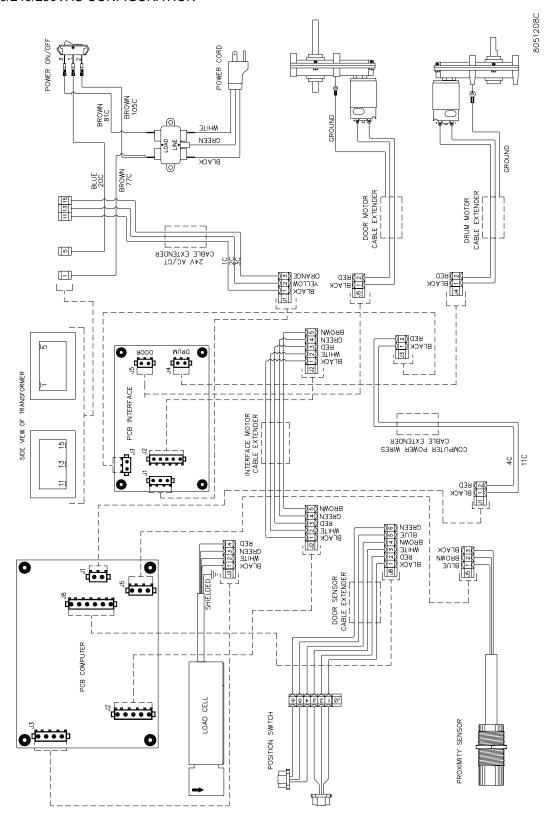


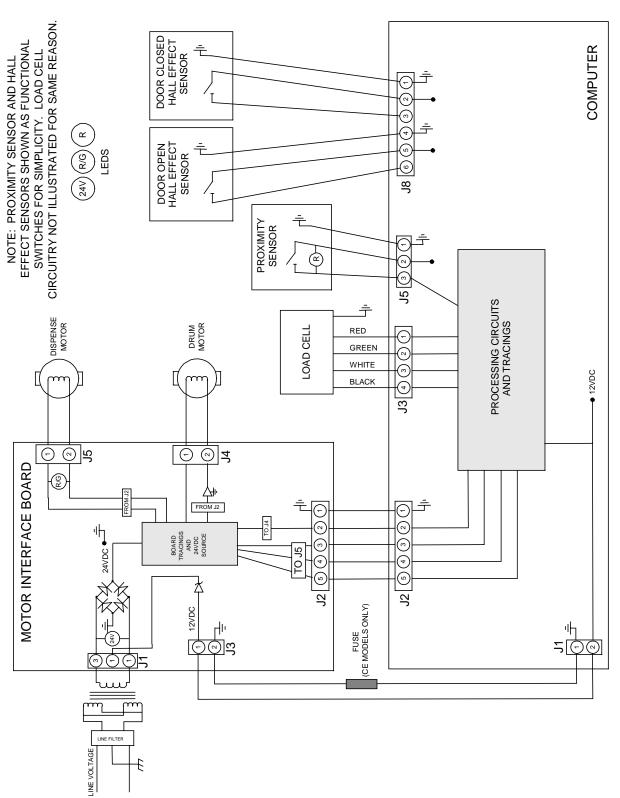


CE 230VAC CONFIGURATION



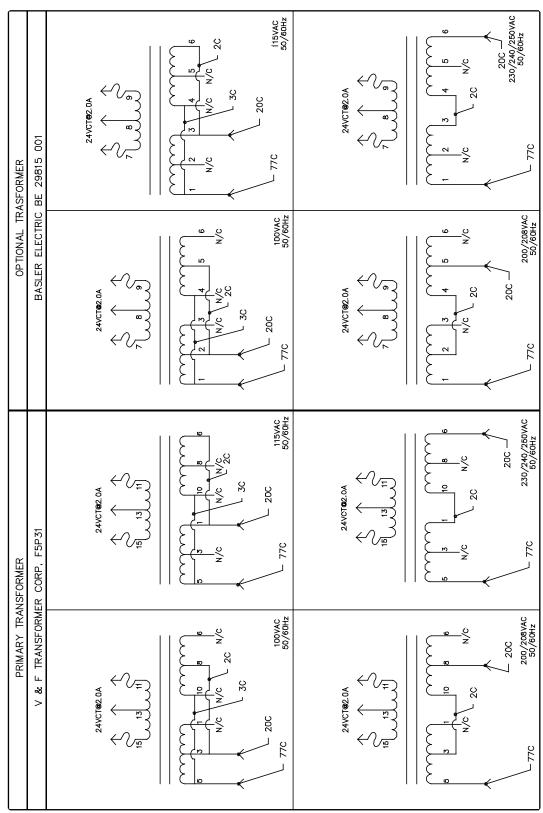
230/240/250VAC CONFIGURATION





SIMPLIFIED WIRING DIAGRAM

805-1020A



Sin 300 II SINGLE BASKET DISPENSER CHAPTER 2: REPLACING COMPONENTS

2.1 Accessing Components

The unit's back panel must be removed to access all electronic components except the drum motor. The panel is held in place by two hex-head screws located along the bottom edge. A separate access panel must be removed to gain access to the drum motor. It is held in place with two hex-head screws. In order to access the ON/OFF switch and controller, the right cabinet top must also be removed. It is secured by two pan-head machine screws and Keps nuts at the left rear corner (as viewed from the rear of the unit) and one hex-head screw at the right rear corner. The front of the panel is held in place by a pair of tabs that fit into slots cut into the front of the cabinet. When the retaining screws have been removed, lift up on the rear and move the cabinet top toward the front to disengage the tabs.

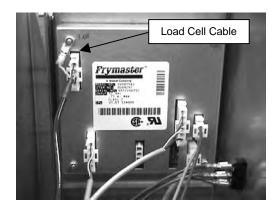
2.2 Replacing Components

2.2.1 Replacing the Controller

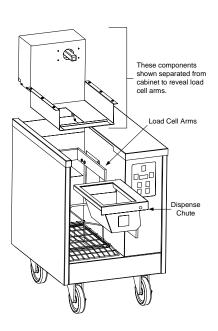
- 1. Disconnect the unit from the electrical power source.
- 2. Disconnect all cables from the jacks on the back of the controller. If the cables are not marked indicating their jacks, mark the cables before disconnecting them.
- 3. The controller is held in place by four Keps nuts. Remove the nuts and pull the controller straight rearward off the mounting studs.
- 4. Reverse steps 1-3 to install new controller.

2.2.2 Replacing the Load Cell and Associated Components

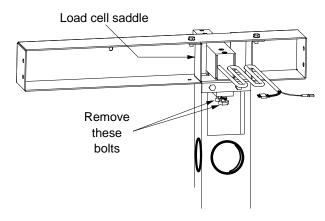
- 1. Disconnect the unit from the electrical power source.
- 2. Disconnect the load cell cable from the back of the controller (see photo below).

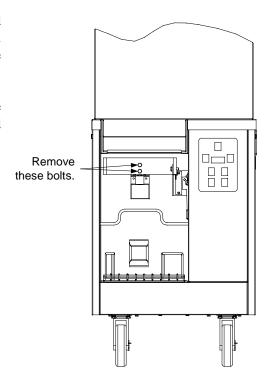


3. Remove the dispensing chute by lifting it up from the load cell arms and carefully sliding it toward you (see illustration at right).



- Remove the two bolts securing the load cell arms to the load cell (see illustration at right). Carefully lower the load cell arms/dispense motor assembly to the bottom of the dispense chamber.
- 5. Remove the two bolts securing the load cell/load cell brace assembly to the load cell saddle (see illustration below) and remove the load cell and load cell brace.

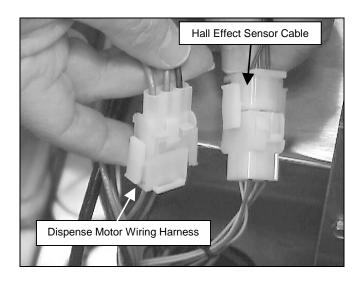




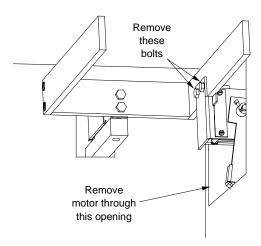
- 6. Reattach the replacement load cell and the load cell brace to the load cell saddle and securely tighten the bolts. Verify that the gap between the load cell and stop screw in the load cell brace is approximately .015 inch ± .005 inch (.4mm ± .13mm).
- 7. Reverse steps 1 through 4 to complete the procedure.

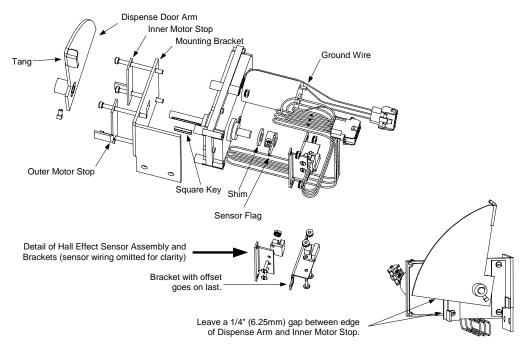
2.2.3 Replacing the Dispense Motor

- 1. Disconnect the unit from the electrical power source and remove the back panel to access wiring.
- 2. Disconnect the dispense motor wiring harness and Hall Effect sensor cable (see photo below).



- 3. Remove the basket alignment rack from the dispensing well. Remove the two bolts securing the dispense motor to the load cell arms (see illustration at right). Be ready to support the approximate 6-pound/3-kilogram weight of the dispense motor assembly when the bolts are removed.
- 4. Carefully pull the dispense motor assembly out through the opening in the cabinet.
- 5. Remove the setscrew securing the dispense door arm to the motor shaft and slip the arm from the shaft, being careful not to lose the square key. Remove the four Keps nuts from the screws securing the motor assembly to the dispense motor bracket.





- 6. Loosen the setscrew securing the sensor flag to the motor shaft and slide the flag and shim (spacer) from the shaft.
- 7. Slip the Hall Effect sensor brackets off the mounting screws and separate the motor and mounting bracket.
- 8. Assemble the replacement motor to the bracket then replace the Hall Effect sensor brackets, installing the bracket with offset last (see illustration in step 5). Replace and tighten the four Keps nuts, torquing to 5-10 inches/pound. **NOTE:** Ensure the ground wire is reattached to the upper right hand mounting screw.
- 9. Insert the square key into the groove in the long motor shaft, align the slot in the dispense arm hub with the square key, and slip the arm onto the shaft with the hub on the outside (see illustration in step 5). **NOTE:** The door must be positioned between the motor stops (rotate the shaft, if necessary) and there must be at least ⁵/₁₆" (8mm) clearance between the door and the motor. Torque the setscrew to 20-25 inches/pound.

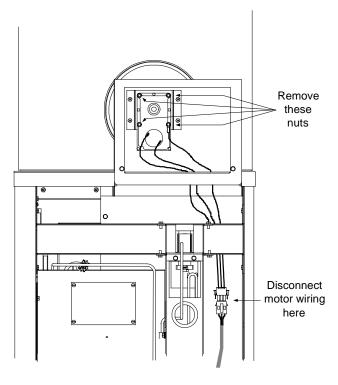
- 10. Slip the shim (spacer) onto the short motor shaft, followed by the sensor flag (with the hub facing the shim). Rotate the dispense arm so that the tang is pointed up (see illustration in step 3) and there is a gap of approximately ¹/₄" (6.25mm) between the edge and the inner motor stop.
- 11. Remove any slack in the motor shaft by placing the arm end on a work surface and gently pressing down on the motor. At the same time, rotate the sensor flag so that it is positioned between the faces of the upper (left) Hall Effect sensor. Verify that there is a gap of approximately ½" (6.25mm) between the arm and the inner motor stop, then tighten the setscrew, torquing to 12 inches/pound.
- 12. Reinstall the dispense motor assembly by reversing steps 1 through 4.

2.2.4 Replacing the Drum Motor

- 1. Disconnect the unit from the electrical power source.
- Disconnect the drum motor wiring from the drum motor cable (see illustration at right).
 NOTE: The drum motor cable plugs into the motor interface board and the motor wiring plugs into it. It is not necessary to disconnect the drum motor cable from the motor interface board.
- 3. Remove the four Keps nuts (see illustration at right) that secure the drum motor to the drum motor bracket and pull the motor straight back off the mounting screws.
- 4. Grasp the motor shaft with a pair of locking pliers and unscrew the rotator arm ("bullet") from the motor shaft and transfer it to the new motor.
- 5. Slip the new motor over the four mounting screws, being careful not to dislodge the screws. Replace and tighten the Keps nuts.
- 6. Reverse steps 1 and 2 to complete the procedure.



- 1. Disconnect the unit from the electrical power source.
- 2. Holding the new component next to the component being replaced, disconnect each wire from the old component and connect it to the new component, one at a time.
- 3. Remove the screws securing the old component to the mounting bracket, remove the old component, and install the new component.
- 4. Reconnect the unit to the electrical power source.



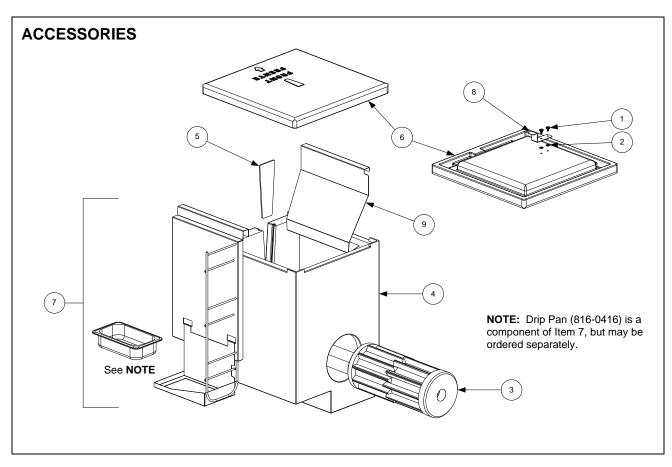
2.2.6 Replacing the Proximity Sensor

- 1. Disconnect the unit from the electrical power source.
- 2. Unplug the proximity sensor from the controller.
- 3. Unscrew the failed sensor from the block. Thread the stop nut on the replacement sensor back toward the cord-end until approximately ½ inch (12.5mm) of threads remain. Carefully screw the replacement sensor into the Teflon block until it is finger tight. Tighten the stop nut against cabinet.
- 4. Plug the sensor cable into jack J5 on the controller and reconnect the unit to the electrical power source.

2.2.7 Replacing the Motor Interface Board

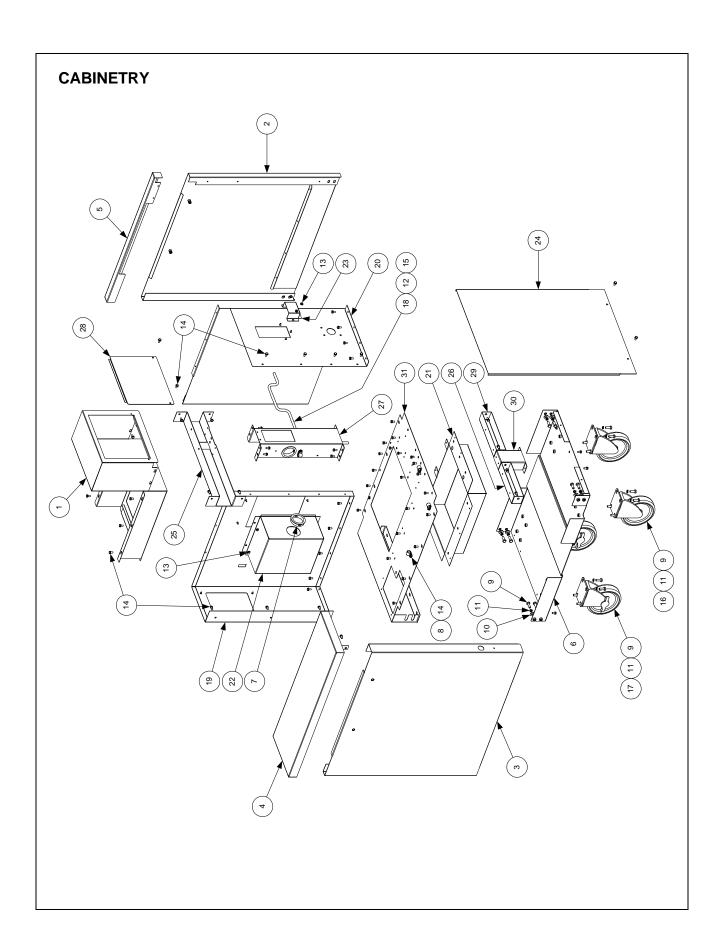
- 1. Disconnect the unit from the electrical power source.
- 2. Holding the new interface board next to the one being replaced, disconnect each cable from the failed interface board and connect it to the new board, one at a time.
- 3. Remove the four Keps nuts securing the old board to its mounting and slip it off the mounting studs, being careful not to dislodge the spacers behind the board. Slip the new board onto the mounting studs and replace the Keps nuts.
- 4. Reconnect the unit to the electrical power source.

SinBaD II SINGLE BASKET DISPENSER CHAPTER 3: PARTS LIST



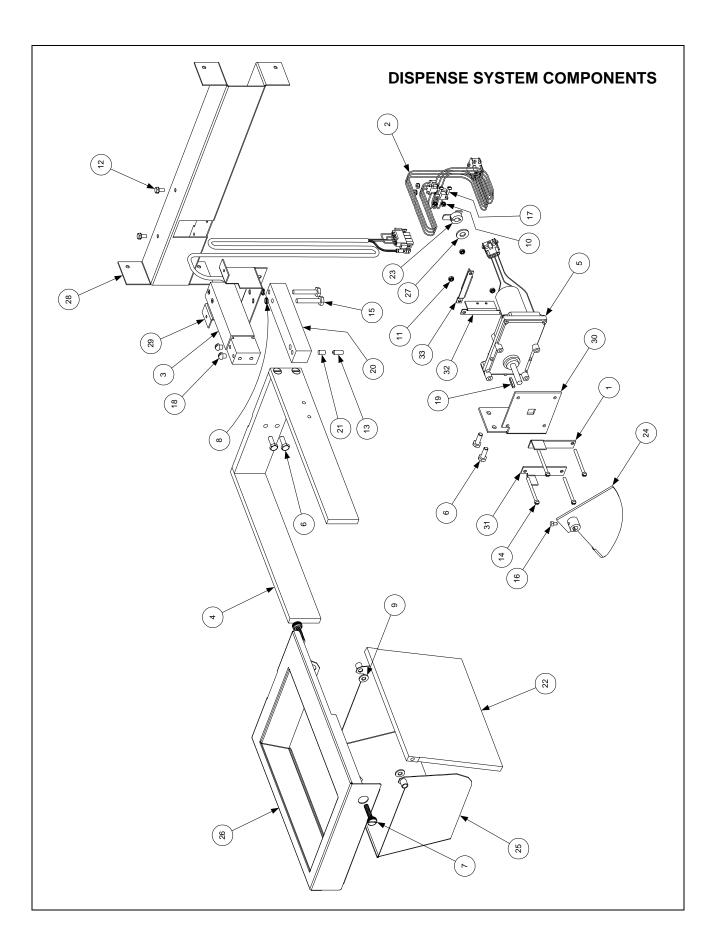
ITEM	PART#	COMPONENT
1	809-0747	Thumbscrew, ¹ / ₄ -20 X ? -inch
2	809-0899	Retainer, ¹ / ₄ -20
3	816-0378	Drum Hopper
4	816-0412	Hopper
5	816-0568	Sight Glass
*	826-1737	Kit, Sight Glass and Lanyard (has no index marks)
6	816-0491	Lid, Hopper
7	826-1592	Kit, Optional Basket Hanger (includes drip pan 816-0416)
8	910-7920	Handle, Hopper Lid
9	910-8688	Deflector

^{*} Not illustrated.



ITEM	PART #	COMPONENT
*	106-1382	Cabinet Assembly (Non-CE; does not include Items 2, 3, 16, 17, or 25)
*	106-1383	Cabinet Assembly (CE; does not include Items 2, 3, 16, 17, or 25)
1	106-0643	Cover Assembly, Drum Motor
2	910-8209	Side, Cabinet Left (included with 106-1382 or 106-1383)
3	910-8219	Side, Cabinet Right (included with 106-1382 or 106-1383)
4	806-9228	Cover, Right Cabinet Top
5	806-9235	Cover, Left Cabinet Top
6	806-9782	Base Assembly
7	807-1083	Bushing, Heyco
8	809-0037	Clamp, Plastic Wire
9	809-0131	Screw, 1/4-20 X 3/4-inch Hex Head
10	809-0189	Washer, ¼-inch SAE Plane S/S
11	809-0191	Washer, ¼-inch Lock
12	809-0194	Washer, Flat ⁵ / ₁₆ -inch SAE
13	809-0250	Nut, 6-32 Keps Hex
14	809-0434	Screw, #10 X? -inch Hex Washer Head
15	809-0783	Nut, ⁵ / ₁₆ -18 Nylon Hex Lock
16		Caster w/o Brake
	810-0356	5-inch
	810-0949	2½-inch
17		Caster w/Brake
	810-0357	5-inch
	810-1735	2½-inch
18	810-1644	Guide, Basket
19	823-2761	Panel, Front
20	823-2864	Liner, Inner (CE, Non-CE)
21	824-0744	Catcher, Fry
22	824-0752	Cover, Dispense Motor
23	824-0771	Cover, Load Cell Hole
24	900-8208	Cover, Back
25	900-8211	Brace, Upper Back
26	900-8223	Brace, Lower Back (Right)
27	900-8224	Brace, Load Cell Vertical
28	900-8324	Panel, Motor Access
29	900-8352	Brace, Lower Back (Left)
30	900-9440	Support, Base
31	910-8990	Liner, Bottom

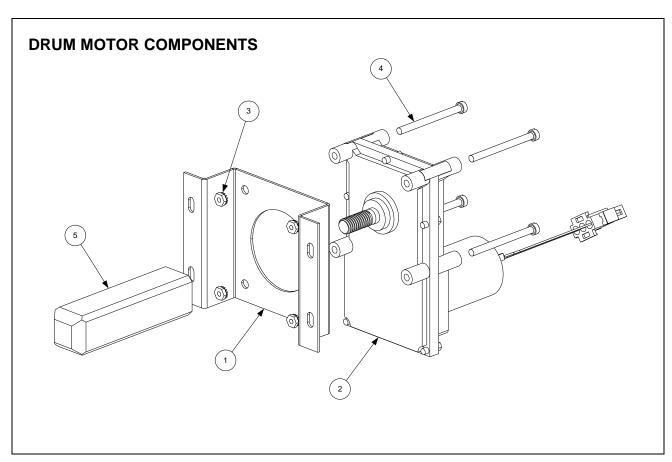
^{*} Not illustrated.



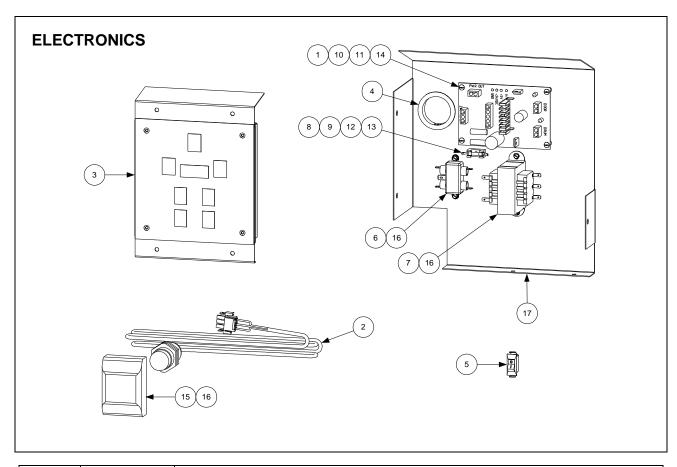
1	ITEM	PART #	COMPONENT
3	1	210-0810	Stop, Door Open Position
4 806-9271 Load Cell Arm Assembly 5 807-3004 Motor, 24VDC Dispense 6 826-1389 Screw, ¼-20 x ¾-inch Hex Head (Pkg. of 10) 7 809-0171 Thumbscrew, ¼-20 x 1? -inch 8 809-0193 Washer, ¼-inch Lock 9 809-0193 Washer, ¼-inch Nylon Flat 10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0434 Screw, #10 x ? -inch Hex Washer Head 12 809-0434 Screw, #10 x ? -inch Hex Washer Head 13 809-06480 Setscrew, ¼-28 x ½-inch Fillister Head 14 809-0613 Screw, 4-32 x ? -inch Cup Point Square Head 15 809-0649 Bolt, ¼-20 x ¼-inch Slotted Pan Head 16 809-0675 Setscrew, ¾-20 x ¼-inch Slotted Round Head Cap 18 809-0737 Key, ? -inch x ¾-inch Slotted Round Head Cap 19 810-170 Brace, Load Cell 20 810-1770 Brace, Load Cell 21 810-1071 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute	2	806-8969SP	Switch Assembly, Position (Hall Effect Sensor)
5 807-3004 Motor, 24VDC Dispense 6 826-1389 Screw, ¼-20 x ¾-inch Hex Head (Pkg. of 10) 7 809-0171 Thumbscrew, ¼-20 x 1?-inch 8 809-0191 Washer, ¼-inch Lock 9 809-0193 Washer, ¼-inch Nylon Flat 10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0247 Nut, 8-32 Keps Hex 12 809-0434 Screw, #10 x ? -inch Hex Washer Head 13 809-0480 Setscrew, ¼-28 x ½-inch 14 809-0613 Screw, 8-32 x 2-inch Fillister Head 15 809-0649 Bolt, ¼-20 x 1½-inch 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 20 810-1770 Brace, Load Cell 21 810-1771 Broce, Load Cell 23 823-2670 Flag, Door Position (Hall Effect Sensor Flag) 24 823-3412 Top, Dispense Chute 27	3	806-9258	Load Cell Assembly
6 826-1389 Screw, ¼-20 x ¾-inch Hex Head (Pkg. of 10) 7 809-0171 Thumbscrew, ¼-20 x 1? -inch 8 809-0193 Washer, ¼-inch Lock 9 809-0193 Washer, ¼-inch Nylon Flat 10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0247 Nut, 8-32 Keps Hex 12 809-0434 Screw, #10 x ? -inch Hex Washer Head 13 809-0480 Setscrew, ¼-28 x ½-inch 14 809-0613 Screw, 8-32 x 2-inch Fillister Head 15 809-0649 Bolt, ¼-20 x 1½-inch 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-3412 Top, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 36 809-013 Shim, Load Cell (used for transport only)	4	806-9271	Load Cell Arm Assembly
7 809-0171	5	807-3004	Motor, 24VDC Dispense
8 809-0191 Washer, ¼-inch Lock 9 809-0193 Washer, ¼-inch Nylon Flat 10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0247 Nut, 8-32 Keps Hex 12 809-0430 Screw, #10 x ? -inch Hex Washer Head 13 809-0480 Setscrew, ¼-28 x ½-inch 14 809-0613 Screw, 8-32 x 2 -inch Fillister Head 15 809-0649 Bolt, ¼-20 x ½-inch 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 10 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2717 Chute, Dispense Chute 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 29 900-8233	6	826-1389	Screw, ¹ / ₄ -20 x ³ / ₄ -inch Hex Head (Pkg. of 10)
9 809-0193 Washer, ¼-inch Nylon Flat 10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0247 Nut, 8-32 Keps Hex 12 809-0434 Screw, #10 x ? -inch Hex Washer Head 13 809-0480 Setscrew, ½-28 x ½-inch 14 809-0613 Screw, 8-32 x 2-inch Fillister Head 15 809-0649 Bolt, ¼-20 x ½-inch Fillister Head 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Dor, Dispense Chute 23 823-267 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-823 Saddle, Load Cell 28 900-8231 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Stop, Door Closed Position 31 910-7950 Stop, Door Closed Position 32 910-8165 Bracket, Upper Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 35 Shim, Load Cell (used for transport only)	7	809-0171	Thumbscrew, ¹ / ₄ -20 x 1? -inch
10 826-1366 Nut, 4-40 Keps Hex (Pkg. of 25) 11 809-0247 Nut, 8-32 Keps Hex 12 809-0434 Screw, #10 x ? -inch Hex Washer Head 13 809-0480 Setscrew, ¼-28 x ¾-inch 14 809-0613 Screw, ¾-28 x ½-inch Fillister Head 15 809-0649 Bolt, ¼-20 x ½-inch Follister Head 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, ¼-20 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ½-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 29 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Shim, Load Cell (used for transport only)	8	809-0191	Washer, ¹ / ₄ -inch Lock
11	9	809-0193	Washer, ¹ / ₄ -inch Nylon Flat
12	10	826-1366	Nut, 4-40 Keps Hex (Pkg. of 25)
13	11	809-0247	Nut, 8-32 Keps Hex
14 809-0613 Screw, 8-32 x 2-inch Fillister Head 15 809-0649 Bolt, ¼-20 x ½-inch 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense (see NOTE below) 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Eff	12	809-0434	Screw, #10 x? -inch Hex Washer Head
15 809-0649 Bolt, ¼-20 x 1½-inch 16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 <	13	809-0480	Setscrew, ½-28 x 5/8-inch
16 809-0674 Setscrew, 8-32 x ? -inch Cup Point Square Head 17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 8 810-1675 Shim, Load Cell (used for tran	14	809-0613	Screw, 8-32 x 2-inch Fillister Head
17 809-0675 Screw, 4-40 x ½-inch Slotted Pan Head 18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ?-inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ?-inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	15	809-0649	Bolt, ¹ / ₄ -20 x 1 ¹ / ₂ -inch
18 809-0737 Screw, ¼-20 x ¼-inch Slotted Round Head Cap 19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 36 810-1675 Shim, Load Cell (used for transport only)	16	809-0674	Setscrew, 8-32 x? -inch Cup Point Square Head
19 810-1391 Key, ? -inch x ¾-inch 20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	17	809-0675	Screw, 4-40 x ½-inch Slotted Pan Head
20 810-1770 Brace, Load Cell 21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	18	809-0737	Screw, ¹ / ₄ -20 x ¹ / ₄ -inch Slotted Round Head Cap
21 810-1771 Rod, ¼-inch x ? -inch Aluminum 22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 810-1675 Shim, Load Cell (used for transport only)	19	810-1391	Key, ? -inch x ³ / ₄ -inch
22 816-0400 Door, Dispense Chute 23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 34 823-2670 Flag, Door Position Switch (Upper Hall Effect Sensor Bracket) 35 Shim, Load Cell (used for transport only)	20	810-1770	Brace, Load Cell
23 823-2607 Flag, Door Position (Hall Effect Sensor Flag) 24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 34 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense NOTE below) 36 90-8169 Shim, Motor Shaft 37 910-8231 Bracket, Dispense Motor 38 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 39 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 31 Shim, Load Cell (used for transport only)	21	810-1771	Rod, ¼-inch x ? -inch Aluminum
24 823-2670 Arm, Dispense Door 25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 36 810-1675 Shim, Load Cell (used for transport only)	22	816-0400	Door, Dispense Chute
25 823-2717 Chute, Dispense (see NOTE below) 26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 34 810-1675 Shim, Load Cell (used for transport only)	23	823-2607	Flag, Door Position (Hall Effect Sensor Flag)
26 823-3412 Top, Dispense Chute 27 900-8169 Shim, Motor Shaft 28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 34 810-1675 Shim, Load Cell (used for transport only)	24	823-2670	Arm, Dispense Door
27900-8169Shim, Motor Shaft28900-8211Brace, Upper Back29900-8233Saddle, Load Cell30910-5855Bracket, Dispense Motor31910-7950Stop, Door Closed Position32910-8164Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket)33910-8165Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket)*810-1675Shim, Load Cell (used for transport only)	25	823-2717	Chute, Dispense (see NOTE below)
28 900-8211 Brace, Upper Back 29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 34 810-1675 Shim, Load Cell (used for transport only)	26	823-3412	Top, Dispense Chute
29 900-8233 Saddle, Load Cell 30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	27	900-8169	Shim, Motor Shaft
30 910-5855 Bracket, Dispense Motor 31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	28	900-8211	Brace, Upper Back
31 910-7950 Stop, Door Closed Position 32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 36 810-1675 Shim, Load Cell (used for transport only)	29	900-8233	Saddle, Load Cell
32 910-8164 Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket) 33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) 36 810-1675 Shim, Load Cell (used for transport only)	30	910-5855	Bracket, Dispense Motor
33 910-8165 Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket) * 810-1675 Shim, Load Cell (used for transport only)	31	910-7950	Stop, Door Closed Position
* 810-1675 Shim, Load Cell (used for transport only)	32	910-8164	Bracket, Lower Position Switch (Lower Hall Effect Sensor Bracket)
	33	910-8165	Bracket, Upper Position Switch (Upper Hall Effect Sensor Bracket)
I a language laga a second control of the control o	*	810-1675	Shim, Load Cell (used for transport only)
* 806-9272 Shipping Screw Assembly, Load Cell (used for transport only)	*	806-9272	Shipping Screw Assembly, Load Cell (used for transport only)

^{*} Not illustrated.

NOTE: Use P/N 106-1529SP to order a complete dispense chute assembly (Items 7, 9, 22, 25, and 26).

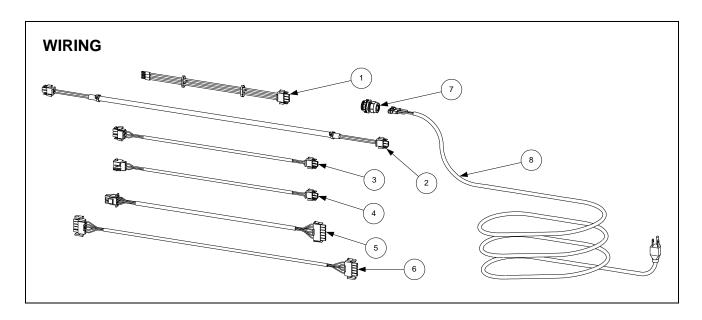


ITEM	PART #	COMPONENT
1	200-0953	Bracket, Drum Motor
2	807-3436	Drum Motor (for complete assembly (items 1-5), use 806-9326SP)
3	809-0247	Nut, 8-32 Keps
4	809-0613	Screw, 8-32 X 2-inch Fillister Head
5	810-1571	Arm, Drum Rotator ("Bullet")



ITEM	PART#	COMPONENT
1	106-0242	Interface Board
2	106-0503SP	Switch Assembly, Proximity
3	106-1277	Computer Assembly
4	807-1083	Bushing, 2-Inch Nylon
5	807-2734	Switch, ON/OFF, Illuminating, Green
6	807-2818	Filter, 120-250VAC Line
7		Transformer
	807-2943	115/230V-24V
	807-3185	230V-24V (Used on CE units only)
8	807-3127	Fuse Holder (Used on CE units only)
9	807-3128	Fuse (Used on CE units only)
10	809-0097	Screw, 6-32 x 1-inch Slotted Truss Head
11	809-0250	Nut, 6-32 Keps Hex
12	809-0669	Screw, #3-48 Rd Hd 18-8 SS (Used on CE units only)
13	809-0670	Nut, #3-48 Hex Hd 18-8 SS (Used on CE units only)
14	810-0383	Spacer, Nylon
15	816-0566	Block, Proximity Switch
16	826-1371	Screw, #8 X ½-inch Hex Hd Drill Point (Pkg. of 25)
17	900-8938	Bracket, Electronic Components Mounting
*	826-1605	Kit, Computer Gasket

^{*} Not illustrated.



ITEM	PART #	COMPONENT
1	806-8956	Cable, Transformer to Interface Board
2	806-8957	Cable, Computer/Interface Board 12VDC Power
3	807-2912	Cable, Dispense Motor to Computer Terminal J5
4	807-2915	Cable, Drum Motor to Computer Terminal J4
5	807-3056	Cable, Position (Hall-effect) Switch to Interface Board Terminal J8
6	807-3058	Cable, Computer/Interface Board Signal
7		Strain Relief, Power Cord
	807-3240	Non-CE (for use with Power Cords 806-8889 and 806-9251)
	807-3287	CE (for use with Power Cord 806-9886)
8		Power Cord
	806-8889	120VAC w/strain relief and plug (Non-CE)
	806-9251	100-450VAC (#16, 18 amp, w/strain relief, w/o plug) (Non-CE Export)
	806-9886	230VAC w/strain relief and plug (CE)



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