# 

4900S & 4900JR
Single Board Version
Snack/Candy Vendors
5 or 6 Shelf With
CBA-2 Bill Acceptor
Field Service Manual
and
Parts Catalog

## RECORD OF REVISION OR CHANGE

In order to assure the availability of the most up-to-date and accurate information, Rowe International, Inc. periodically issues bulletins and supplements describing equipment and manual changes. Use the chart provided below to record any changes that affect this manual or the equipment.

SERVICE BULLETIN	PAGE NUMBER	DESCRIPTION	DATE INCORPORATED
			:

# warranty

All parts are guaranteed to be free of defects in material and workmanship, and Rowe agrees to repair or replace any part which proves defective, with a similar part without charge, f.o.b. factory, for a period of one year after date of installation.

In the case of parts supplied to Rowe as components, Rowe extends the same warranty period as extended by the original manufacturer.

The above warranty applies provided that all parts of the machine have been serviced properly as directed in the service manual, and provided the alleged defective part, upon examination by Rowe, shall prove to be thus defective.

This warranty will not apply to any machine or any part which has been subjected to any accident, abuse, or misuse.

ROWE INTERNATIONAL, INC. EXTENDS NO WARRANTY, EXPRESSED OR IMPLIED, TO PURCHASERS OR USERS OF ITS PRODUCTS EXCEPT AS HEREIN SET FORTH, WHETHER BY OPERATION OF LAW OR OTHERWISE.

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## **MODELS** 4900S and 4900JR SINGLE BOARD VERSION SNACK/CANDY VENDORS SPECIFICATIONS:

GENERAL:		4900S	4900JR
Depth		35-1/2"	35-1/2"
Width		39"	33-1/2"
Height		72"	72''
Power Requirements .	120 V	AC, 60 Hz, 2 A	Same
Power Consumption .		230 Kwh. (Max.)	Same
BTU Output		. 500 BTU/Hour	Same
Product Vend Time .		2.6 Seconds	Same
Net Weight	Approximately 650	lbs. to 750 lbs.	600-750
Shipping Weight	depending upon co	nfiguration.	



#### PRODUCT SELECTIONS

#### 4900S

25, 30, 35, 40, 45 or 50 Selections plus Gum & Mint (5 Selections) in 5 Shelf Configuration.

30, 35, 40, 45, 50, 55 or 60 Selections plus Gum & Mint (5 Selections' a 6 Shelf Configuration.

#### 4900JR

20, 24, 28, 32, 36 or 40 Selections plus Gum & Mint (5 Selections) in 5 Shelf Configuration.

24, 28, 32, 36, 40, 44 or 48 Selections plus Gum & Mint (5 Selections) in 6 Shelf Configuration.

#### **VENDOR PRODUCT CAPACITY**

Models 4900S and 4900 JR vendor product capacity is a function of the shelf configurations. Standard shelf configurations are shown on pages 3 and 4.

#### COIN MECHANISM

The 4900S and 4900JR vendors are designed to accommodate the Mars MC-5000, TRC-6000 and the Coinco 9300L machine controlled coin mechanisms.

#### BILL ACCEPTOR

Rowe model CBA - 2 accepts \$1.00 and \$5.00 bills and automatically stacks them in a 500 bill capacity stacker.

#### PARTS KITS AND ACCESSORIES LIST

PART NO.         PART NO.         DESCRIPTION           425-6001         Same         CBA - 2 Bill Acceptor Kit           490-4500         Same         Shelf Extender Cable Assembly           490-6007         Same         Product Filler Kit           490-6009         Same         Gum & Mint Adapter Kit - "Tums"           490-6024         Same         Can Vendor Kit           493-6011         494-6011         Kick Plate Kit           493-6029         Same         Universal Exhaust Fan Kit           494-6000         Same         Door Lock Kit           490-1925         Same         Product Pusher Kit           493-6028         Same         Bill Box Security Kit	4900S	4900JR	
490-4500         Same         Shelf Extender Cable Assembly           490-6007         Same         Product Filler Kit           490-6009         Same         Gum & Mint Adapter Kit - "Tums"           490-6024         Same         Can Vendor Kit           493-6011         Kick Plate Kit           493-6029         Same         Universal Exhaust Fan Kit           494-6000         Same         Door Lock Kit           490-1925         Same         Product Pusher Kit	PART NO.	PART NO.	DESCRIPTION
490-6007       Same       Product Filler Kit         490-6009       Same       Gum & Mint Adapter Kit - "Tums"         490-6024       Same       Can Vendor Kit         493-6011       Kick Plate Kit         493-6029       Same       Universal Exhaust Fan Kit         494-6000       Same       Door Lock Kit         490-1925       Same       Product Pusher Kit	425-6001	Same	CBA - 2 Bill Acceptor Kit
490-6009       Same       Gum & Mint Adapter Kit - "Tums"         490-6024       Same       Can Vendor Kit         493-6011       494-6011       Kick Plate Kit         493-6029       Same       Universal Exhaust Fan Kit         494-6000       Same       Door Lock Kit         490-1925       Same       Product Pusher Kit	490-4500	Same	Shelf Extender Cable Assembly
490-6024         Same         Can Vendor Kit           493-6011         494-6011         Kick Plate Kit           493-6029         Same         Universal Exhaust Fan Kit           494-6000         Same         Door Lock Kit           490-1925         Same         Product Pusher Kit	490-6007	Same	Product Filler Kit
493-6011 494-6011 Kick Plate Kit 493-6029 Same Universal Exhaust Fan Kit 494-6000 Same Door Lock Kit 490-1925 Same Product Pusher Kit	490-6009	Same	Gum & Mint Adapter Kit - "Tums"
493-6029 Same Universal Exhaust Fan Kit 494-6000 Same Door Lock Kit 490-1925 Same Product Pusher Kit	490-6024	Same	Can Vendor Kit
494-6000 Same Door Lock Kit 490-1925 Same Product Pusher Kit	493-6011	494-6011	Kick Plate Kit
490-1925 Same Product Pusher Kit	493-6029	Same	Universal Exhaust Fan Kit
	494-6000	Same	Door Lock Kit
493-6028 Same Bill Box Security Kit	490-1925	Same	Product Pusher Kit
	493-6028	Same	Bill Box Security Kit

#### **FUNCTION**

Allows Currency Acceptance Service Shelf Outside of Cabinet Vends Pastry Vends " Tums " Vends Canned Foods Styling Air Circulation Improve Locking Pushes Product Out Secure Bill Box

## **4900S PRODUCT CAPACITIES**

#### **6 SHELF MODELS**

MODEL 4930S Capacity: 370 items\*

10	10	10	10
10	12	12	12
12	12	12	12
12	12	12	12
12	15	15	15
15	15	15	15
	10 12 12 12	10 12 12 12 12 12 12 15	10     12     12       12     12     12       12     12     12       12     12     12       12     15     15

MODEL 4935S Capacity: 508 items\*

15		1	5	15		1	5	15		
15	15	18	18	18	18	24	24	24	24	
1	2	1:	2	1!	15 15		1!	5		
1:	2	12		12		12		12		
10	)	10		12		12	2	12		
10	)	10		10 10		10	)	10		

MODEL 4940S Capacity: 629 items\*

12		1	2	1	2	12		12		
15	15	15	15	24	24	24	24	24	24	
18	18	18	18	18	18	18	18	18	18	
1	5	1	5	1!	5	1	5	1	5	
1:	2	1:	2	12		12		12		
10	)	10		10	וי	10	)	10		

MODEL 4945S Capacity: 746 items\*

10	•	10		16	0	H	•	10		
1	2	1	5	1	5	1	5	19	5	
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	18	18	
15	15	15	15	24	24	24	24	24	24	
1	2	1	2	12		12		12		

MODEL 4950S Capacity: 851 Items\*

10	,	10		19	5	1!	5	15		
12	2	13	2	1	2	1:	2	13	2	
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	15	15	15	15	15	15	
15	15	15	15	24	24	24	24	24	24	

MODEL 4955S Capacity: 931 items\*

10	0	12		12		1	2	15		
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	18	18	
18	18	18	18	15	15	15	15	15	15	
15	15	15	15	24	24	24	24	24	24	

MODEL 4960S Capacity: 1074items\*

18
16
18
18
24

<sup>\*</sup>Plus 5 gum and mint selections with 230 items.

## 5 SHELF MODELS

MODEL 4925S Capacity: 310 items

10	10	10	10	10
10	10	12	12	12
12	12	12	12	12
12	12	15	- 15	15
15	15	15	15	15

MODEL 4930S Capacity: 443 items\*

11	)	10	0	10	0	10	•	10	)
1	2	1:	2	1	2	1:	2	1:	2
1	5	1	5	1	5	1	5	1	5
15	15	18	18	18	18	24	24	24	24
1	2	1	2	1	2	1	2	1	2

MODEL 4935S Capacity: 563 items\*

11	0	10	)	10	)	10	)	16	•
1:	2	1:	2	1	5	1!	5	1	5
18	18	16	18	18	18	18	18	18	16
15	15	15	15	24	24	24	24	24	24
1	2	1	2	,	2	,	2	1	2

## MODEL 4940S Capacity: 689 Items\*

10	0	10	•	15	•	1	•	11	•
1:	2	1:	2	12	2	1:	2	1:	2
18	18	18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18	18	18
15	15	15	15	24	24	24	24	24	24

MODEL 4945S Capacity: 805 items\*

,	1:	2	12	2	1:	2	1	5
		,,	,,	10	18	18	18	18
								<u>_</u>
18	18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18	18
15	15	15	24	24	24	24	24	24
	18 18	18 18 18 18 18 18	18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 18 18 18 18 18 18 18 18 1	12 12 12 12 11 16 18 15 15 15 24 24 24 24 24

#### MODEL 4950S Capacity: 906 Items\*

					_				_
1 1		.	18	- 1				1	
18	18	18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18	18	18
18	18	18	18	15	15	15	15	15	15
15	15	15	15	24	24	24	24	24	24

\*Plus 5 gum and mint selections with 230 items.

Five and Ten selection shelves fit in any position, see chart above. Helix coils can be freely interchanged with other helix coils of different capacities provided they are the same diameter.

## 4900JR PRODUCT CAPACITIES

#### 6 SHELF MODELS

MODEL 4924-6 Capacity: 294 items\*

10	10	10	10
10	10	12	12
12	12	12	12
12	12	12	12
12	12	15	15
15	15	15	15

MODEL 4928-6 Capacity: 396 items\*

1	2	1	2	1	5	1	5
				15			
1	2	1	2	1:	2	1	2
1	0	1	0	1:	2	,	2
1	0	1	0	14	0	1	0

MODEL 4932-6 Capacity: 496 items\*

(1	0	1	0	10	)	1	0
1	2	1	2	1.	2	1	2
1	5	1	5	,	5	1	5
18	18	18	18	18	18	18	18
15	15	15	15	24	24	24	24
1	2	1	2	1	2	1	2

MODEL 4936-6 Capacity: 589 items\*

1	0	1	0	1	0	18	0
1	12		5	1	5	1	5
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
15	15	15	15	24	24	24 24	
1	2	1	2	1	2	1	2

MODEL 4940-6 Capacity: 674 items\*

11	0	10	0	1	5	1	5
1	2	1:	2	1	2	1	2
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
18	18	18	18	15	15	15	15
15	15	15	15	24	24	24	24

MODEL 4944-6 Capacity: 769 items\*

1	0	1	2	1	2	1	5
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
18	18	18	18	15	15	15	15
15	15	15	15	24	24	24	24

MODEL 4948-6 Capacity: 852 items\*

15	15	15	15	15	15	15	15
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
18	18	18	18	18	18	18	18
15	15	15	15	24	24	24	24

<sup>\*</sup>Plus 5 gum and mint selections with 230 items.

#### 5 SHELF MODELS

MODEL 4920-5 Capacity: 246 items\*

10	10	10	10
10	10	12	1,2
12	12	12	12
12	12	15	15
15	15	15	15

MODEL 4924-5 Capacity: 348 items\*

15 1	15 18 18		18 18 15		24 24. 15	
12	1	2	15		15	
10	1	10		2	1	2
10	10	10		10		0

MODEL 4928-5 Capacity: 442 items\*

1	0	10		10		10	
1	2	12		15		15	
18	18	18	18	18	18	18	18
15	15	15	15 15		24	24	24
1	2	1	2	1	2	1	2

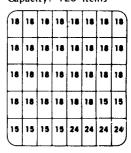
MODEL 4932-5 Capacity: 542 items\*

ر س	,acı	ιу.		-2	itti			
1	0	10		1!	5	15		
18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	
15	15	15	15	24	24	24	24	
1	2	,	2	י	2	1	2	

MODEL 4936-5
Capacity: 631 items\*

Cap	Lapacity: 631 Items*							
18	18	18	18	18	18	18	18	
18	18	18	18	18	18	18	18	
18	18	18	18	18	18	15	15	
15	15	15	15	24	24	24	24	
1	0	1	2	1	2	1	5	

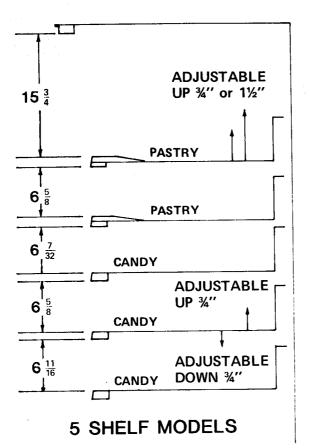
MODEL 4940-5 Capacity: 726 items\*

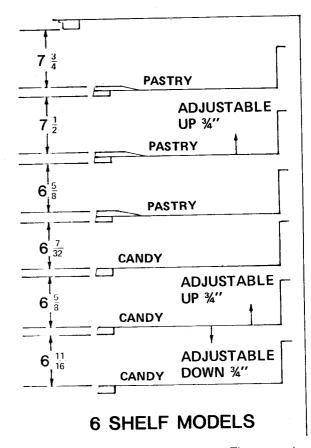


<sup>\*</sup>Plus 5 gum and mint selections with 230 items.

Four and Eight selection shelves fit in any position, see chart above. Helix coils can be freely interchanged with other helix coils of different capacities provided they are the same diameter.

## PRODUCT CLEARANCES





On both 5 Shelf and 6 Shelf Models the second shelf from bottom can be adjusted %" higher or lower. There are three sets of rail mounting holes. On 5 Shelf Models the top shelf can be adjusted up %" or 1½". On 6 Shelf Models the fifth shelf from the bottom is adjustable up %". Note: Product used must not exceed 7" in height.

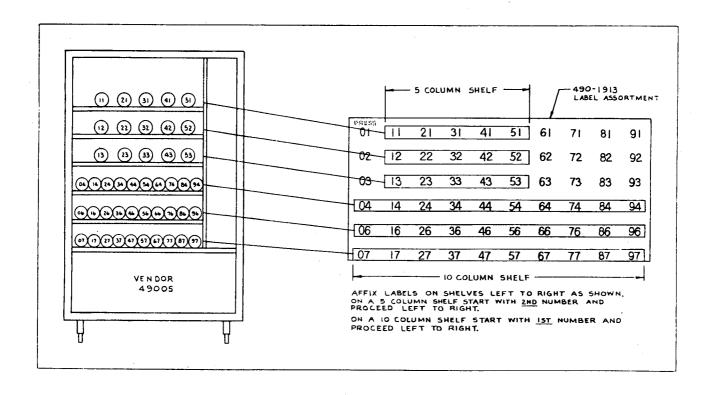
### PRODUCT WIDTHS

4900JR - 4 SE 4900S - 5 SE	LECTION :			4900JR - 8 S 4900S - 10 S			
ITEM PER COMPARTMENT	HELIX PART NO.	MAX. PRODUCT THICKNESS	PRODUCT WIDTH	ITEM PER COMPARTMENT	HELIX PART NO.	MAX. PRODUCT THICKNESS	PRODUCT WIDTH
			(SEE NOTE)				
10	490-34	2-1/16"	2-1/2/5-1/4	15	490-31	1-5/16"	1"/2-1/4"
12	490-33	1-11/16"	2-1/2/5-1/4	18	490-30	1-1/16"	1"/2-1/4"
15	490-32	1-5/16"	2-1/2/5-1/4	24	490-29	3/4"	1''/2·1/4''

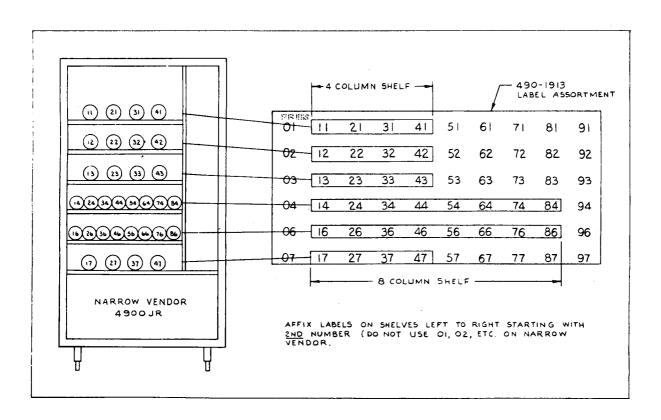
#### NOTE:

- 4900S Partition in selection 4 can be moved to any of 4 locations altering width of selections 4 and 5. Maximum width of selection 4 can be 6%", minimum width of selection 5 can be
- 4900JR Partition in selection 3 can be moved to any of 4 locations altering width of selections 3 and 4. Maximum width of selection 3 can be 6%", minimum width of selection 4 can be 3%".

## 4900S SELECTION IDENTIFICATION



## 4900JR SELECTION IDENTIFICATION



## **SECTION 1- DESCRIPTION**

#### **GENERAL INTRODUCTION**

The all new Rowe Snack Vendors merchandise a wide variety of products in a well lighted display, attractive to customers and servicemen alike. These highly reliable machines are easy to service and are virtually maintenance free.

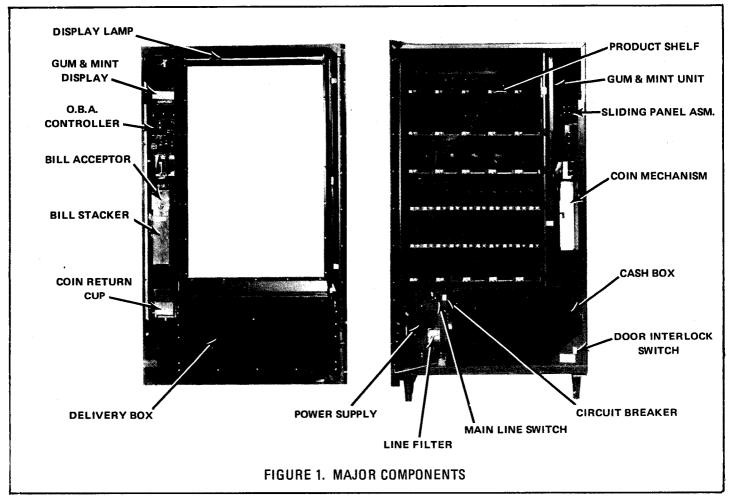
During a purchase, merchandise is moved from the display shelf by a rotating helix coil, dispensed into a delivery compartment easily accessible to the customer. A newly-designed delivery door is easy for the customer to open, but remains theft-proof. Each product delivery helix is operated by its own motor for trouble-free long life.

Machine product capacity is a function of the size and variety of helix coils used. Coils are removed and replaced without tools, merely by lifting out and dropping straight in.

Product thickness varies considerably and the appropriate size helix coil chosen to vend a particular product should be selected on the basis of the product fitting loosely within the coil. Because some bagged snacks swell in size over their normal shelf life, some trial selection is necessary. The product thickness range specified in this publication for each helix coil is an approximate measurement and will vary according to factors such as: how much a product settles, product type, swelling and weight.

Standard shelf configurations for each model are shown on Pages 3 and 4.

The Gum & Mint Unit is separate from the product shelves and is mounted on a pull-out panel. Releasing the latch allows the unit to be tilted for easy loading and servicing. Column widths can be easily adjusted by simply relocating the column slide to a different slot. Delivery height is adjusted by loosening the thumb screw.



A two note Bill Acceptor (CBA-2 accepts \$1.00 & \$5.00 bills) is available as an option. The Acceptor takes valid currency and has single bill escrow. Combination purchases using a bill and coins are possible and change for the purchase is dispensed from the coin mech.

The Snack/Candy vendor features 24 VDC operation using a completely isolated power supply for safety. The display fluorescent lamp and optional exhaust fan as well as the coin mech (Mars TRC 6000 or Coinco 9300L) operate on 120 VAC.

#### SELECTION IDENTIFICATION

(SEE PAGE 6)

In order to eliminate any possible confusion on selection identity and price, the digits 5 and 0 are not used to identify selections.

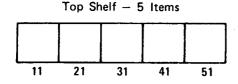
Selection identification is as follows:

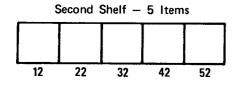
First digit identifies location of item on shelf. On 4 or 5 item shelves, the first item from the left is 1, second is 2, third is 3, etc. On 8 or 10 items shelves, the first item from the left is 0, the second item is 1, the third item is 2, the fourth item is 3, etc.

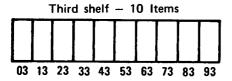
Second digit identifies shelf locations. Top Shelf is 1, second from top is 2, third from top is 3, fourth from top is 4, fifth from top is 6, sixth from top is 7. Gum and Mint selections are 8. In the case of a five shelf machine the first shelf is eliminated and the digit 1 is not used.

#### Examples:

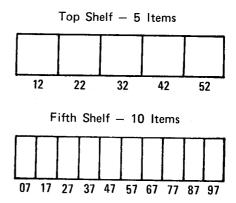
#### Six Shelf Machine







#### Five Shelf Machine



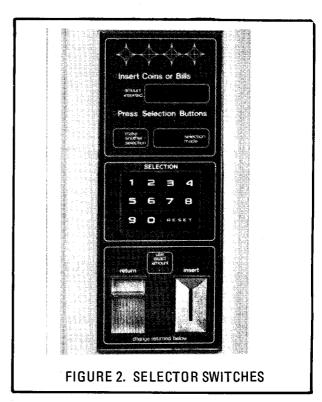
#### **MAKING A SELECTION**

To make a selection, the customer deposits the proper amount. Price is shown directly beneath each item. He then presses the two digits corresponding to the selection number shown beneath the product.

Purpose of the Reset button is to erase the first number if it is entered incorrectly. This can also be accomplished by pushing the coin return.

#### **SELECTION BUTTONS**

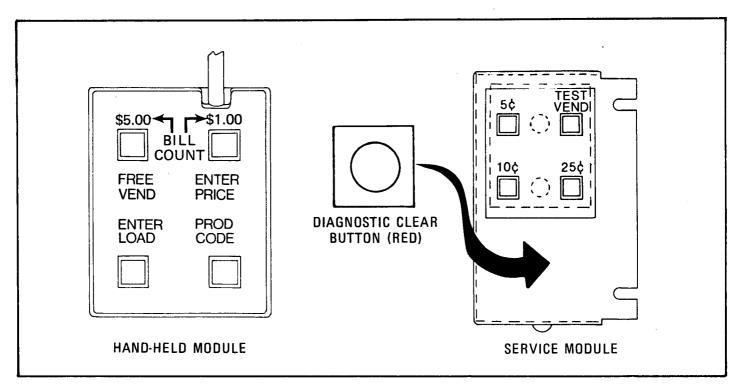
There are 10 selection buttons numbered from 1 to 0. There is also a reset button. These buttons are used by the machine patron to make a purchase from the vendor. They are used also by service personnel to perform certain functions covered in a later section.



#### SPECIAL FUNCTIONS

Four Special function buttons are located on a hand-held module located in a holding bracket inside the machine. A service module with other function

buttons is located behind and above the coin mechanism. A "diagnostic clear" button is located behind the service module.



Detailed explanation of the use of these modules is included in Section 2.

,			 		
					•
					4
					ند

## **SECTION 2- INSTALLATION**

#### INTRODUCTION

This section contains instructions for installing the vendor.

#### **UNPACKING**

The Snack Vendor is shipped in one carton with all major assemblies in place, ready for installation. Inspect the exterior and interior of the cabinet for evidence of damage. In case of damage, please notify the delivering carrier at once to call and examine the vendor regardless of the external condition of the carton. Under U.S. Regulations, damage claims must be collected by the consignee. Do not return shipping-damaged merchandise until after your claim has been established. Once your claim is established, damaged merchandise may then be returned to your Rowe Distributor for repair. The invoice for repair charges may then be collected from the carrier. Do not destroy packing material or boxes until the carrier's agent has examined them.

#### SET-UP INSTRUCTIONS

#### SPECIAL NOTE:

If it necessary to get through a narrow doorway, proceed as follows. The power cord anchoring plate can be dismounted from the rear wall allowing the power cord and plug to be pushed into the cabinet. Be certain to remount the anchoring plate to prevent damage to the power cord.

If more clearance is required it will be necessary to pivot the door hinges.

- 1. Open vendor door.
- 2. Remove door stop rod.
- Disconnect door harness at plug located below the delivery box on the hinge side.
- Disconnect bill acceptor harness at power box on cabinet floor if so equipped.
- Open the main door far enough to expose the three counter sunk screws in the top hinge and block the door to support it's weight.

#### CAUTION

The door is heavy. Take appropriate precautions before proceeding.

- 6. Remove the 2 ½" hex head bolts from the cabinet side of the top hinge plate.
- 7. Remove the three counter sunk screws and nuts from the top hinge plate on the door.
- Rotate the upper hinge assembly away from the door frame and lift the door straight "up" off the lower hinge point.

#### NOTE

Take care not to lose the bearing washer on the bottom hinge pin.

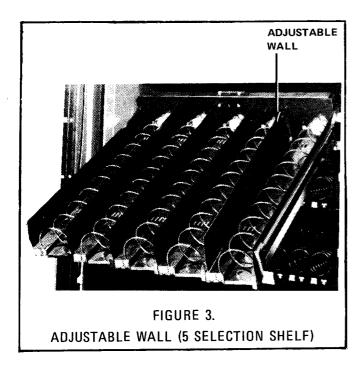
- 9. If additional clearance is required, the lower hinge can be pivoted by removing the FRONT ½" hex head bolt and loosening the rear bolt one turn. The security shield mounted on the left front edge of the cabinet is also removable if required.
- 10. After passing through the confined area, reassemble the door to the cabinet being certain to secure all parts and harnesses removed in the preceding steps.

Set up the vendor as follows:

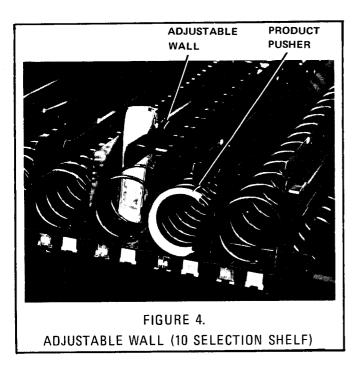
- 1. Open door all the way.
- 2. Set main switch OFF.
- 3. Level cabinet front to rear and side to side. All four cabinet legs are adjustable.
- 4. Check that fluorescent lamp is secure in its socket and that all electrical plugs are firmly seated in their sockets.
- 5. Plug the line cord into a 120 volt, 60 hertz grounded receptacle.
- 6. Set main switch to ON.

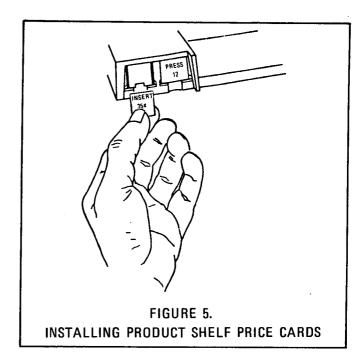
#### **CAUTION**

WHEN CHANGING, DISCONNECTING OR CONNECTING ANY ELECTRICAL COMPONENTS, MAIN SWITCH MUST BE IN THE "OFF" POSITION.



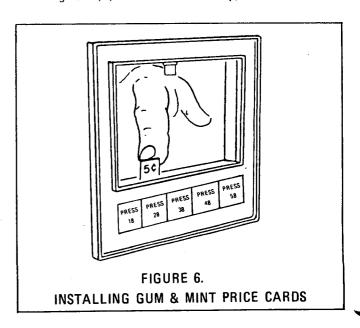
- 7. Set pricing. Refer to correct procedure under PRICE SETTING on Page 2 4.
- Pull top product shelf out and lower to loading position. Load product in accordance with the specifications listed at the beginning of this manual on Page 5.
- 9. The 4 selection trays feature an adjustable wall located between the 3rd and 4th spirals. On 5 selection trays the adjustable wall is located between the 4th and 5th spirals. The wall can be installed in any one of the four slot positions in

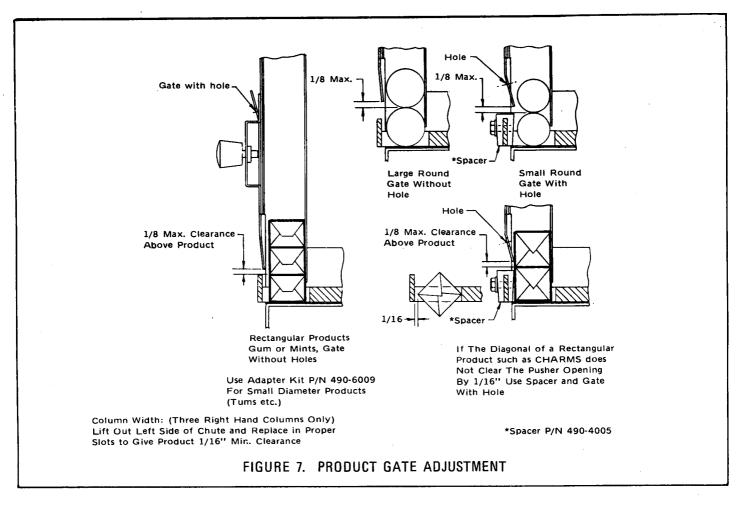




the bottom of the tray. After adjusting the wall for the desired width, check to be certain that the product moves freely forward when the selection on each side of the adjustable wall is vended. (See Figure 3.) Additional tray walls are shipped with each machine and can be installed in the pastry tray slots to accommodate the narrower items. On 8 or 10 selection trays, the adjustable wall swings out from the right side of the shelf wall. (See Figure 4.)

10. Install product pushers when required. The plastic product pusher is pushed onto the helix in the desired position to assure product delivery. (See Figure 4.) (10 count shelves only)





- 11. Install desired price cards for product shelves as shown in Figure 5.
- 12. To install price cards for Gum and Mint Unit, simply remove the display box from the inside of the door by lifting up and off. Insert desired price cards into the slots provided against the display glass. (See Figure 6.)

#### NOTE

Gum and Mint price cards are smaller than shelf price cards.

Check to make sure that the price cards correctly relate to the Gum and Mint products to be displayed. Replace the display box and visually check the display and prices from the outside of the door.

- 13. Pull out sliding panel assembly at right of vendor, load gum and mint columns. Adjust product gate on gum and mint as shown in Figure 7.
- 14. Lift out left side of chute and move to proper slots, giving product a minimum of 1/16 inch end clearance.
- Deposit coins and test vend each selection. Check coin return operation.

#### **VENDOR SET UP**

COIN MECH. SELECT (S1 SWITCH) (See illustration on page 4 - 2)

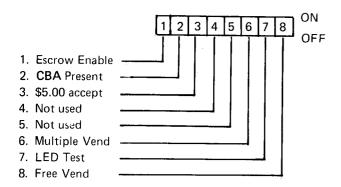
This set of switches determine which Coin Mechanism will be used in the 4900. These switches must be set correctly for the "Coin Mech" in use to function properly.

ON = YES/Device Selected
OFF = NO/Device not selected

S1/1 OFF	S1/2 OFF	S1/3 OFF	Mars TRC 6000 or Coinco 9300L
ON	OFF	OFF	Not Used
OFF	ON	OFF	Not Used
ON	ON	OFF	Mars MS 1600 Executive Coin Mech
OFF	OFF	ON	Not Used
ON	OFF	ON	Not Used
OFF	ON	ON	Not Used
ON	ON	ON	Not Used

#### OPTIONS SET UP (S2 SWITCH)

Switch position "ON" = YES (Enabled) Switch position "OFF" = NO (Disabled)



See General Operation Section (DIP Switch S2 Options) for detailed explanation.

#### AUDIT SWITCHES (S3 and S4)

S3 - Displays Total Accumulated Sales (non resettable)

S4 - Displays Total Resettable Accumulated Sales See General Operation Section for detailed explanation.

#### PRICE SETTING

Setting up prices initially is fast and easy. The following procedure should be followed.

- 1. Open vendor Main Door.
- 2. Load product as previously described.
- 3. Install Product Shelf Cards.
- 4. Set prices for each selection as follows:
  - A. Enter first selection number on selector panel, a price will show in the Credit Display area.
  - B. To change the price, enter the new price using the selection numbers. Enter zero, zero first, then the most significant digit, then the second digit. For instance, if \$0.25 is desired, enter zero, zero then 2, then 5. The digits entered will shift into the Credit Display.
  - C. When the price shown in the Credit Display is correct, press the ENTER PRICE key on the Hand Held Module and the new price will be stored in the microprocessor's memory.
  - D. The selection number will automatically increment to the next selection in order and the price of the new selection will be shown in the Credit Display area. If the price is correct press the ENTER PRICE key and the selection number will increment again. If a price change is desired, proceed as in steps a, b, c, and d.

#### NOTE

If a selection motor is missing or inoperative, that selection must be set at zero.

5. At the conclusion of the initial price setting it is highly recommended that each selection price be checked again. This is easily accomplished as follows:

Press Reset Button. Enter first selection number (01 or 11). The first selection and its price will show in the display area. Simply pressing the ENTER PRICE key repeatedly will now increment the selection and its price.

#### HAND HELD MODULE

(See illustration on page 1 - 3)

The Hand Held Module incorporates 4 buttons. These are ENTER PRICE, previously described, FREE VEND, ENTER LOAD and PRODUCT CODE.

#### **FREE VEND**

The FREE VEND button is for the convenience of the service person. It permits dispensing a product without depositing coins. This button will work only if a specific selection is made using the selector buttons.

ENTER LOAD and PRODUCT CODE buttons are not used unless the vendor is equipped with one of the MIS (Management Information Systems) options on the market. Instructions for their use will be provided with whatever system is selected.

#### SERVICE MODULE

(See illustration on page 1 - 3)

#### **TEST VEND**

The TEST VEND button is located on the module above and behind the coin mechanism. It can be used in two different ways.

- To test a specific selection --- enter selection number and press the TEST key.
- Without a specific selection entered, pressing the TEST VEND key will test every selection motor in the vendor sequentially and automatically.

Additional explanation of the TEST VEND key is included in the General Operation section.

#### INVENTORY SWITCHES 5¢ - 10¢ - 25¢

These switches are used only with the MARS Coin Mech. and are for the purpose of inventorying the 5¢, 10¢ and 25¢ coin tubes.

If a Coinco Mech. is used, the inventory switches are on the coin mech. itself and the switches on the Service Module are not used.

## Section- 3 Operating Description

#### INTRODUCTION

The text in this section is intended to present an overall operating description of the vendor under one heading in this manual. Using this section to gain an understanding of the correct operating characteristics in conjunction with the "Trouble-shooting" section will be helpful when confronted with a service problem.

#### SPECIAL FUNCTION LED's

The Single Board 4900 has four "Special Function" LED's. The operation and description of each LED is as follows.

#### "USE EXACT CHANGE" LED

This LED will light and blink only after a selection is made and only if the Coin Mech does not contain enough coins to provide the required amount of change. This LED will continue to blink until another selection is made or the coin return is depressed at which time the inserted coins will be returned.

#### "USE EXACT CHANGE" LED - NON U.S.A. VENDORS

If an Executive Coin Mech (MS 1600) is used this LED will operate in the same manner as described above.

#### "MAKE ANOTHER SELECTION" LED

This LED will light and blink if a vend is not permitted by the Controller (sold out selection in Gum/Mint column or fault on tray selection drive motor etc.). It will continue to blink until another selection is made or the coin return is depressed.

#### "USE COINS ONLY" LED

The "Use Coins Only" LED is mounted on the front panel near the Bill Acceptor (CBA Unit) and it's purpose is to provide a visual indication that the Bill Acceptor is faulty or simply cannot be used. If the CBA Unit happens to be faulty this LED & the "Error Indication" LED will both be lit and NOT blinking. If the Bill Acceptor IS operative but cannot be used this LED will blink. The "Use Coins Only" LED will blink under the following conditions:

- 1. If there is less than one dollar (\$1.00) in the Coin Mech inventory tubes.
- 2. If a bill is being held in escrow.

#### "ERROR INDICATION" LED

This LED is located to the upper left of the Credit Readout on the front panel and is NOT labeled. Also it is NOT VIS-IBLE unless it is turned "on". This LED will light whenever any fault condition exists within the vendor and will remain "on" until ALL diagnostic errors and/or fault conditions are cleared by pressing the Diagnostic Clear button. There are several fault conditions that may exist in the vendor, all of which are covered in detail in the section titled "Error Codes" in the Troubleshooting Section.

#### **VENDOR SETUP**

Several switches within the 4900 are used to establish the proper operation of the vendor and which devices it will operate with. The following is a description of all the switches and their function(s).

#### **DIP SWITCH S1 - COIN MECH SELECT**

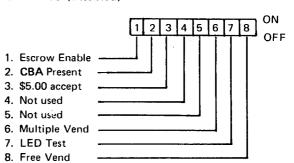
This set of switches determine which Coin Mechanism will be used in the 4900. These switches must be set correctly for the "Coin Mech" in use to function properly.

ON = YES/Device Selected
OFF = NO/Device not selected

S1/1	S1/2	S1/3	
OFF	OFF	OFF	Mars TRC 6000 or Coinco 9300L
			•
ON '	OFF	OFF	Not Used .
OFF	ON	OFF	Not Used
ON	ON	OFF	Mars MS 1600 Executive Coin Mech
OFF	OFF	ON	Not Used
			•
ON	OFF	ON	Not Used
OFF	ON	ON	Not Used
ON	ON	ON	Not Used

#### **DIP SWITCH S2**

On = YES (Enabled OFF = NO (Disabled)



1. Escrow Enable Switch

If "ON", all bills validated by bill acceptor will be held in escrow until either a purchase is made or the coin return is pressed at which time the bill will be accepted and stacked or returned respectively. If "OFF" all bills will be immediately accepted and stacked following validation

#### NOTE:

The exceptions to this are:

1. The maximum number of bills that will be accepted and stacked is limited by the amount of coins in the coin tube inventory.

EXAMPLE: If the coin mech possesses \$2.25 in coins, the acceptor will only accept and stack two bills. A third bill, if inserted, will be held in escrow.

The maximum number of bills that will be accepted and stacked is one bill less than the highest priced item.

EXAMPLE: Highest vend price is \$1.50. The first bill inserted will be accepted and stacked. The second bill will be held in escrow until a selection is made.

#### NOTE:

Once a bill has been accepted and stacked, credit may only be returned in the form of coins.

#### **CBA PRESENT SWITCH**

This switch simply indicates to the Control system whether or not a CBA Unit is present (switch set to "on") or not present (switch set to "off"). If the switch is "on" but no Bill Acceptor is present in the vendor a fault condition will be signalled by lighting the front panel "fault" LED. This will have no effect on the vendor with respect to normal operation aside from the fault LED being lit.

#### \$5.00 ACCEPT SWITCH

The CBA Unit used with the 4900 is capable of accepting \$1.00 and \$5.00 bills. With this switch in the "off" position the Bill Acceptor will accept \$1.00 bills only. If set to the "on" position the CBA will accept \$1.00 AND \$5.00 bills.

#### **MULTIPLE VEND SWITCH**

This feature when selected (switch = ON) allows a customer to purchase more than one item after inserting money in the vendor. As long as enough credit and coins (for change) exist to purchase a selected item, the vend will be made. The selected price will then be subtracted from the credit and another item may be purchased or the coin return may be pressed to receive the remaining credit. With this feature disabled (switch = OFF) normal operation of the vendor

will be to vend a selected item and automatically return any remaining change.

#### LED TEST SWITCH

This feature is available for testing the condition of all LED's and 7 segment displays on the front panel of the vendor. (This test can only be done in service mode.) With the switch in the "ON" position all display segments and discrete LED's on the front panel will be lit.

#### **FREE VEND SWITCH**

Having this switch in the "ON" position will allow the vendor to operate in the free vend mode. In this mode no coins or bills will be accepted by the 4900. Since no purchases are allowed by the vendor when the door is open, this switch has no effect unless the door is closed. With the door closed and the Free Vend switch in the "ON" position the word FREE will appear in the credit display. Any item selected that has been priced will automatically be vended.

#### **AUDIT SWITCHES (S3 and S4)**

(Only functional with door open)

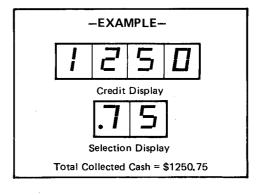
S3 - Displays Total Accumulated Sales (non resettable)

S4 - Displays Total Resettable Accumulated Sales

The 4900 electronically maintains two sales figures, Total Accumulated Sales and Total Resettable Accumulated Sales. The Total Accumulated Sales figure reflects the actual cash sales made by the vendor since it was put into operation. This figure is not resettable and is factory preset to zero. Simply press switch S3 on the 4900 main control board to display this figure on the front panel.

The Total Resettable Accumulated Sales figure reflects the actual cash sales made by the vendor since this figure was last reset to zero. To obtain the Resettable sales figure simply press switch S4. This figure is also factory preset at zero but may be easily reset any time the door is open by pressing both S3 and S4 simultaneously.

NOTE: The maximum cash amount that can be displayed by either of these sales figures is six digits. The four most significant digits appear in the credit display and the two least significant digits appear in the selection display.



#### **OPERATION OF THE 4900 SNACK VENDOR**

#### **GENERAL**

The 4900 may operate in one of two modes, the Door Open mode or the Door Closed mode. Both modes of operation are discussed separately in the following paragraphs.

#### **DOOR OPEN**

In the Door Open mode (also referred to as the Service Mode) all set-up procedures and/or service requirements may be performed. To prevent currency from being deposited in the vendor in this mode, the Coin Mech and Bill Acceptor (if so equipped) are disabled. The following is a list of functions available when the door is open accompanied by a detailed description of each.

- 1. View Error Code(s)
- 2. Clear Error Code(s)
- 3. Enter/View Price
- 4. Free Vend (On Hand Held Module)
- 5. Test Vend
- 6. Dispense Coin(s)
- 7. Obtain Accumulated Sales Information
- 8. General Service of Machine

#### VIEW ERROR CODE(S)

Whenever a fault condition exists within the 4900 the corresponding code will automatically be displayed on the front panel, as long as the vendor door is open. To view alternate fault codes, press the RESET key on the selection keyboard. Repeatedly pressing this key will sequentially display all existing error codes. Once all faults have been displayed they will be cleared from the display but retained in memory as long as the Diagnostic Clear button was not pressed. Clearing of the Error Codes in this way is not permanent and may be viewed again by going into the Closed Door Mode and then back to the Open Door Mode.

#### 2. CLEAR ERROR CODE(S)

To clear error codes simply press the Diagnostic Clear Key provided on the Sliding Panel inside the 4900. However, caution should be exercised when pressing this key since this will cause ALL error codes to be erased leaving absolutely no record of what they were. Since these codes are provided to indicate problems and/or areas of the vendor requiring service, these codes should be recorded before being cleared. If the fault condition has not been corrected after all fault codes have been cleared, the code will be regenerated if the vendor is put into the error condition again.

NOTE: The display and keyboard will be completely disabled for any use other than displaying error codes while a fault condition exists until all the error codes have been stepped through by pressing the "reset" key on the keyboard.

#### ENTER/VIEW PRICES

There is only one way to enter the price of a selection into the Controller, but two ways of viewing them. To view the price of a selection, enter the selection number and the current price of that selection will be displayed on the Credit Readout. At this point, pressing the Enter Price Key will cause the Display to advance to the next selection and the current price of that selection will be displayed. In this fashion all prices may be viewed sequentially. The second way to view prices is by specific selection. i.e.: Enter selection number of the price to be examined, examine price on Display, press RESET key to clear display, then enter the selection number of the next price to be examined. To change the price of a selection simply follow either one of the two methods listed above to obtain a display of the current price. With the current price displayed, enter the new price starting with the most significant digit and ending with the least significant digit.

EXAMPLE: Enter 0, Enter 0, Enter 2, Enter 5.

Displayed Price: .2 5

Price set for \$.25

When the desired price is displayed on the Credit Readout press the Enter Price Key to store the price in the Controller. Prices may be sequentially entered or may be entered by specific selection as described above. To verify that the new price(s) has been saved, follow the "Viewing Prices" steps listed above.

NOTE: (U.S.A. Domestic only) The Controller detects erroneous price entries and prohibits an invalid price from being saved. If an invalid price is present on the display when the "Enter Price" key is pressed the price will be blanked and "Err" will be displayed in it's place. The selection number will not change during this process. It is maintained to indicate the selection for which the error was generated. The price may be corrected and re-entered. Prices are only valid if they end in "O" or "5" and are in the range of \$.00 to \$99.95. Leading Zeros (0s) will never be displayed in the price.

#### 4. FREE VEND (on Hand Held Module)

The Free Vend feature is provided to allow any priced selection to be vended without establishing credit. A "Free Vend" can be initiated by entering the selection number and pressing the Free Vend Button on the hand held module.

#### 5. TEST VEND

The Test Vend feature on the 4900 is provided to allow an operational test to be performed on either a single motor or all motors in the vendor. To perform a Test Vend on a single motor enter the selection number of the motor to be tested and press the Test Vend key mounted on the sliding panel inside the vendor. To test all motors press the RESET key on the selection keyboard until the display blanks and then press the Test Vend Key. This will initiate an operational test sequentially running all motors. The Controller monitors and maintains the status of every motor. If a motor does not operate a diagnostic error (see "Error Codes") will be generated and the price of that selection will be set to zero. If the cause of the error is corrected and a test vend is performed on that selection, assuming the motor functions properly, the price will return to its original setting. The diagnostic error code will remain until a Diagnostic Clear has been performed.

#### DISPENSING COIN(S)

To dispense coins from the coin mech inventory tubes depress the desired button provided on the Sliding Panel. These buttons are clearly marked and pressing anyone of them will cause the corresponding coin to be dispensed.

#### 7. ACCUMULATED SALES INFORMATION

Two sales figures are electronicly maintained by the 4900 for cash accountability. The "Total Accumulated Sales" figure represents a total of "ALL" cash sales made by the 4900. The "Resettable Accumulated Sales" figure represents a total of all cash sales made by the 4900 since the figure was last set to zero. Refer to discussion of Audit Switches under Machine Setup for details concerning obtaining these figures.

#### 8. CURRENCY ACCEPTANCE INFORMATION

Pressing the "Free Vend/\$5.00 Count" button on the Hand Held Module with no selection number in the display will show the number of \$5.00 bills accepted since the last service. Pressing the "Enter Price/ \$1.00 Count" button with no selection number in the display will show the number of \$1.00 bills accepted since the last service. To clear the data, press S3 and S4 on the Main Controller simultaneously.

#### DOOR CLOSED

#### General:

In the Door Closed mode the 4900 will accept coins/bills, display credit, allow purchases, and return change. If, however, the Free Vend switch S2/8 (see discussion on switches under Machine Setup) is "ON" the 4900 will not accept any form of coins/currency but will allow free purchases. All a customer need do under a Free Vend situation is enter the selection number of an item and it will be vended. Since no money will be accepted under this condition the credit display will never display anything but the word "FREE".

## Section- 4 Troubleshooting

#### CAUTION

WHEN CHANGING, DISCONNECTING OR CONNECTING ANY ELECTRICAL COMPONENTS, MAIN SWITCH MUST BE IN THE "OFF" POSITION.

#### INTRODUCTION

This section contains the schematics, a troubleshooting chart and illustrations showing various functions. Use this material in conjunction with removal and replacement instructions in Section 5 - Maintenance.

#### TROUBLESHOOTING PROCEDURES

It is important to troubleshoot logically. Many malfunctions are caused by minor defects such as loose connections or dirty contacts. Check the following before replacing any parts.

Check circuit breakers. These are located on the power supply assembly at the bottom L.H. side of the cabinet.

Check main power switch is ON -- located directly above the power supply.

Check that all plugs are firmly seated in their receptacles.

Check that connector pins are not bent, broken or pushed through the back of the connector or receptacle when mated.

Check that wires are not broken at connector pins.

Check standby condition

#### MAIN CONTROLLER BOARD

Lit at all times -- Reset, +5VDC, +24VDC LED's.

#### MAIN POWER SUPPLY

Lit at all times - - 110VPDC, 33VDC, 12VPDC, 5VDC LED's

## PROCEDURE FOR LOCATING AND REPAIRING DEFECTIVE VEND MOTORS

(Fault LED on Front Panel will be LIT)

1. Open Main Door, check Credit Display for Er 90 code.

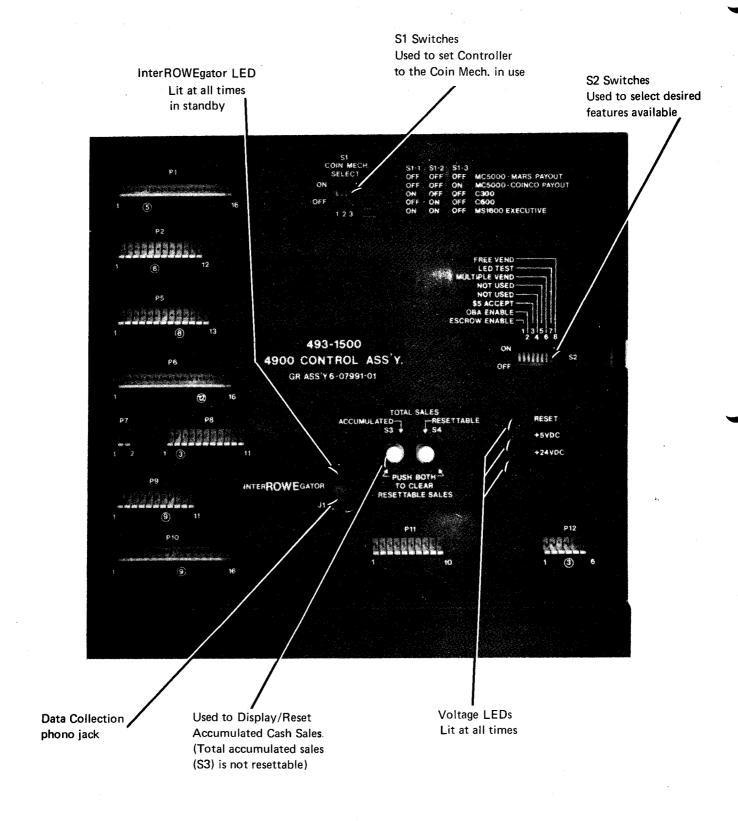
- 2. Number in Selection Display indicates the motor that has failed to operate.
- 3. Record this number and press Reset Key to display any additional motor failures.
- Continue in this manner until all failures have been displayed and recorded. (Credit and Selection Displays will be blank following the last failure).
- 5. Check all disabled selection spirals for improper loading, jams, etc..
- 6. Enter Selection Number of first disabled selection (credit display will read .00) and press Test Vend Button.
- 7. If motor fails to operate, replace defective motor.
- 8. Run test vend on repaired selection. (Selection price will be restored to original amount).
- 9. Repeat procedure for all recorded failures.
- 10. Press Diagnostic Clear Button to erase all faults from Controller memory.

#### ADDITIONAL TROUBLESHOOTING INFORMATION

A. Error Codes - See Error Code Chart.

Information on corrective action is included in the troubleshooting charts.

B. Testing LED Displays - Turn "ON" LED Test switch.



#### **DIAGNOSTIC CODES**

#### DIAGNOSTICS - SINGLE BOARD 4900 SNACK VENDOR

The Controller continually checks for faulty operation of all parts of the machine. If a fault is detected at any time the Controller will light the fault LED on the front panel display and display the error code generated for the particular fault when the door to the machine is opened. This section contains a listing and explanation of all error codes that may be generated within the 4900.

An error code may be generated by any of the following:

- 1. An internal self diagnostic fault.
- 2. A vendor malfunction.
- 3. Fault with any permissible Coin Mechanism.
- 4. Fault with any permissible Bill Acceptor.

Any time an error code is generated a fault LED, mounted on the front panel bezel, will be turned on. This LED will not be labeled so that the customers will not be aware that a fault exists.

Because the fault LED is activated whenever a fault condition exists it does not provide an indication as to whether a single fault or multiple faults exist. To determine the cause of the fault the 4900 must be put in the service mode (Door open). When in the service mode all fault conditions may be viewed on the front panel. To view multiple error codes other than the one displayed, press the RESET key on the selection keyboard. This will cause the other error codes to be successively viewed on the front panel display until the last error is displayed. Pressing the reset key following the last error code will blank out the display.

NOTE: Error codes may be viewed a second time by closing the main door and re-opening it.

To clear error codes, press the diagnotisc clear button on the sliding panel. Since ALL error codes are cleared when this button is pressed, DO NOT press until error codes have been recorded unless no record of the codes is desired.

All error codes will be displayed in the following format:

Credit Display\* E r e1 e2

Selection Display\*\* X Y

- \* e1, e2 indicates the fault condition.
- \*\* X, Y indicates the device that created the fault condition.

- ✓ E r 20 Bad price checksum. Check machine prices.
  - E r 30 S1 switch settings are invalid (see Machine Setup for valid configurations).
  - E r 35 Coin Mech operating improperly. Switch setting S1 may be incorrect. If switch settings are correct Coin Mechanism is probably defective.
  - E r 40 Faulty battery or battery circuit on Control Board.
  - E r 50 Fault condition with COINCO Data Probe

X Y

- 0 1 Bad communication link, not receiving data properly from data probe. Probe may require recharging or may be faulty.
- 0 2 Unauthorized validation code received five times.
- 0 3 Incompatible Data Probe sensed. Incorrect communication protocol.
- 0 4 Data Probe did not acknowledge reception of data.
   Possible fault with transmission circuit.
- 0 5 One or more of the previous errors occured simultaneously.
- E r 55 Fault condition with MARS Data Probe.
  - 0 1 Controller not receiving START correctly from Data Probe needs to be recharged.
  - 0 2 Data Probe is not receiving STACK (Start acknowledge) correctly. Problem could be with Data Probe receive circuit or controller transmit circuit.
  - 0 3 Bad Security/Control Data received from Data Probe.
  - 0 4 Controller received unauthorized validation code from Data Probe five times.
  - 0 5 Controller received an error in the vending data.

E r 60 Fault condition with Coin Mech.

0 1 Jammed Strobe.

0 2 Defective sensor.

0 3 Not used.

- 0 4 Coin Mech did not respond correctly to a power condition.
- E r 70 Bad memory device on Control Board
  - A ROM A (IC Z10) is defective
  - B ROM B (IC Z4) is defective
  - C RAM (IC Z18) is defective
- E r 80 Fault condition exists with Bill Acceptor

XY

- 0 1 No response from Bill Acceptor. Check communication link (connector P7) for faulty connection.
- 0 2 Control board sending too many invalid messages, faulty control board.
- 0 3 Too many invalid messages received from the C.B.A. Check CBA Unit for faults. (See Service Manual 900-42512 for CBA information).

Cannot enable CBA to desired configuration. Check configuration of switches for CBA in Service Manual 900-42512 (Rowe link).

See Bill Acceptor Troubleshooting Charts in the Troubleshooting Section in this manual.

- E r 90 Defective selection motor or motor switch X indicates column, Y indicates row (shelf)
- E r 95 Bad Column Driver. Must be repaired before machine will operate in closed door mode. Check power transistors Q23 through Q32 for short circuit.
- E r 96 Bad Row Driver. The "r" signifies row and the r Y corresponding row number will be displayed in place of "Y". Check power transistors Q16 through Q22 for short circuit.

EXAMPLE: E r 96 r 1 Shorted row one Driver (Q19)

E r 99 No prices set in vendor.

#### **ERROR CODES**

#### (Displayed on Front Panel)

	SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
1.	Er 20	Bad Price Check Sum	Perform Diagnostic Clear procedure. Reset ALL prices.
2.	E r 20 (cannot clear)	Defective Controller	Replace
3.	E r 30	S1 Switch incorrectly set	Set for Coin Mech in use
4.	E r 30(cannot clear)	Defective Controller	Replace
5.	E r 35	S1 Switch incorrectly set	Set for Coin Mech in use.
6.	E r 35(cannot clear)	Defective Coin Mech	Replace
		Defective Controller	Replace
7.	E r 40	Dead Battery	Replace Controller
8.	E r 60	Fault condition with Coin Mech.	See Diagnostic Codes for detail
9.	E r 70 "A", "B", "C"	Defective Controller	Replace
10.	E r 80 0 1	No communication from C.B.A.	Check P7 on Main Controller. Check P6on C.B.A.
		Defective C.B.A.	Replace
		Defective Main Controller	Replace
11.	E r 80 0 2	Defective Main Controller	Replace
12.	E r 80 0 3	Defective C.B.A.	Replace

#### **ERROR CODES (Continued)**

	SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION		
13.	Er 80 Improper S2 switch setting on 0 4 Main Controller		Set S2 to proper configuration.		
		Defective C.B.A.	Replace		
14.	Er 80 41, 44, 48, 49	C.B.A. Failure	See Bill Acceptor Troubleshooting Chart.		
15.	Er 90 X Y	Defective Selection Motor (X Y indicates affected motor)	Check and Replace if necessary		
		Entire Shelf inoperative	Check for either "open" or shorted (to chassis ground) selection motor or full cycle switch "return" wires. Refer to page 4 - 17.		
: :		Entire Column inoperative	Check for either "open" or shorted (to chassis ground) selection motor "drive" wires. Refer to page 4 - 17.		
16.	Er 95	Defective Main Controller	Replace		
17.	Er 96 r Y	Selection Motor out of "Home" position on "Power Up"	Clear Diagnostic error and check to be certain diagnostic error does not reoccur on power up.		
		Shorted (to chassis ground) Selection motor return wire.	Check motor return wire. Repair as neccesary. Refer to page 4 - 17.		
		Defective Main Controller	Replace		
18.	Er 97	Motor not "home" when selection was made.	Run Test Vend of that selection.		
19.	Er 99	No prices set in vendor	Set prices and clear diagnostic code.		

#### Note:

If Er 90 appears continually on a selection that has no vend motor perform the following procedure.

- 1. Put vendor in "Service Mode".
- 2. Shut "OFF" main line switch.
- 3. While holding the "Free Vend" button on the hand held module DOWN, turn the main line switch back "ON".
- 4. Reprogram ALL data (prices, product code, etc.) in the Main Controller.

#### TROUBLESHOOTING CHARTS

(Check Error Codes First)

#### CAUTION

WHEN CHANGING, DISCONNECTING OR CONNECTING ANY ELECTRICAL COMPONENTS, MAIN SWITCH MUST BE IN THE "OFF" POSITION.

	SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
. 1.	All Coins Deposited	Machine not level	Level Cabinet
	are rejected	Vendor in "Service Mode"	Main Door open or Defective Door Interlock Switch.
		Defective Coin Mech	Replace
		Free vend switch on	Turn off
		Defective Controller Assembly	Replace
2.	Selection Motor Insufficient Credit Establish fails to run		Check to see that selection price is same as deposited amount.
		Defective Motor Assembly	Test vend bad motor. Replace if defective
		Defective Controller	Replace
3.	All selection Motors do not run (Test or Free Vend)	Defective Controller Assembly	Replace
4.	Selection Motor does not complete	Defective Full Cycle Switch	Remove power. Check switch, replace if defective
	сусіе	Defective Components on Motor PC Board Assembly	Replace Motor Assembly
		Defective Controller Assembly	Replace

	SYMPTOM	PROBABLE CAUSE	CORRECTIVE ACTION
5.	Selection Motor Continuously Cycles	Defective Full Cycle Switch	Remove Power; check switch replace if defective
		Defective Controller Assembly	Replace Controller Assembly
6.	Two Motors run simultaneously	Defective Controller Assembly	Replace
		Defective component in Gum and Mint Motor Circuit.	Locate and replace defective component
7.	Incorrect Change Dispensed	Vend Price not set to agree with Price Label	Check Vend Price
		Defective Coin Mechanism	Replace
		Defective Controller	Replace
8.	Voltage LED's on the Controller not lit (any)	Defective Power Supply	Check voltage LED's. If "OFF" - Replace Power Supply.
		Defective Controller	Replace
9.	Reset LED on Controller is not lit	Defective Controller	Replace
10.	Gum & Mint does not indicate sold out or always indicates sold out	Setting of Sold-Out Switches not proper	Set Sold-Out Switch Actuators as shown in Figure 14
11.	Vendor accepts coins will not vend (any selection)	Diagnostic Code E r 20 in display	Perform diagnostic clear procedure
		Defective Controller	Replace

#### **BILL ACCEPTOR TROUBLESHOOTING CHARTS**

This section is a guide to help isolate problems and return the bill acceptor to service as quickly as possible. It provides information needed to make minor adjustments or replace defective modules but not to diagnose or repair those modules.

PROBLEM	SYMPTOM	PROBABLE CAUSE
Transport Motor does not start when a bill is inserted.	Power LED on CBA Unit not lit.	Problem in 4900 Power Supply.     Defective harness to CBA Unit.
	Transport does not start but clicking sound is heard in CBA Unit.	Object jammed in Transport mechanism.     Defective CBA Unit.
	No sound or other indication that Transport is trying to run.	1. Defective V1 cell in CBA Unit. 2. Defective CBA Unit. 3. Defective Main Controller.
	BA STATUS LED is blinking.	CBA is not operational due to a "Fault" condition.  (See next "problem")
CBA in SHUTDOWN Er 80	BA STATUS LED flashes once. FAULT code is 41.	Object in Transport covering V1 cell.     Defective CBA Unit.
In this state the BA Status LED will alter- nate between "steady	BA STATUS LED flashes 4 times. FAULT code is 44.	Object in Transport Unit activating Anti-pull back lever.     Defective CBA Unit.
on" and "flashing" ("on" for 1 second and then flash one or more times). The number of flashes indicates the cause of the shutdown. Also a SHUTDOWN message with the indicated FAULT code will be sent to the Main Controller.	BA STATUS LED flashes 5 times. FAULT code is 48 or 49.	<ol> <li>Bill Box full.</li> <li>Bill Box jammed in "off home" position.</li> <li>Bill Box home switch out of adjustment.</li> <li>Defective Bill Box.</li> <li>Defective CBA Unit.</li> </ol>

PROBLEM	SYMPTOM	PROBABLE CAUSE
Bill Acceptor rejects a large number of	BA STATUS LED flashes once after rejecting the Bill.	Defective V1 or V4 cell in CBA Unit.     Defective CBA Unit.
valid bills. If the rejected bill is allowed to remain in the Transport opening, the BA	BA STATUS LED flashes twice or three times after rejecting the bill.	<ol> <li>Twice indicates a defective V2 cell in CBA Unit.</li> <li>Three times indicates a defective V3 cell.</li> </ol>
STATUS LED will flash one or more times to indicate the cause of the reject.	BA STATUS LED flashes 4 times after rejecting the bill.	<ol> <li>Object lodged in Transport.</li> <li>Binding Anti-pull back lever.</li> <li>Defective V4 cell in CBA Transport Unit.</li> <li>Defective CBA Unit.</li> </ol>
	BA STATUS LED flashes 5 times after rejecting the bill.	<ol> <li>Mag adjust set too low.</li> <li>Incorrect motor speed.</li> <li>Defective magnetic head or transport unit.</li> <li>Defective CBA Unit.</li> </ol>
	BA STATUS LED flashes 6 times after rejecting the bill.	<ol> <li>Mag adjust may be either too low or too high.</li> <li>Defective harness connection at P6 pins 1 or 2.</li> <li>Defective motor or magnetic head in Transport.</li> <li>Defective CBA Unit.</li> <li>Defective 4900 Power Supply. (+24 VDC)</li> </ol>
	BA STATUS LED flashes 7 times after rejecting the bill.	<ol> <li>Incorrect motor speed. (Adjust motor speed)</li> <li>Defective Transport.</li> <li>Defective CBA Unit.</li> </ol>
Bills jam frequently.	Any Bill transporting failure.	<ol> <li>Anti-pull back lever not operating freely.</li> <li>Bill pressure roller binding.</li> <li>Transport inlet or track surfaces contain projections, rough spots or dirt.</li> <li>Transport belts out of adjustment or dirty.</li> <li>Transport belts not centered on rollers.</li> <li>Transport upper input roller does not move up and down freely.</li> <li>Defective 4900 Power Supply. (+ 24 VDC)</li> </ol>

## Section- 5 Maintenance

#### INTRODUCTION

This section contains cleaning and repair and replacement procedures.

#### **CLEANING**

To project the best selling image to the customer, and to prolong the beauty of the vendor, it is important to keep your Snack Vendor clean.

- The display window should be cleaned, inside and out, with any good glass cleaner, using clean, soft cloths or paper towels.
- Metal and vinyl surfaces can be cleaned with warm water and mild detergent, paying particular attention to the delivery box, inside and out.
- Cleaning the shelves is easily accomplished with helix coils and adjustable walls removed. (See Removal and Replacement.)
- 4. Check regularly to make sure that coin paths are clean and dry through the coin mechanism.

#### REMOVAL AND REPLACEMENT

#### **HELIX REPLACEMENT**

Helix replacement is easily accomplished without removing the shelf from the vendor.

1. Pull the shelf out and let it tilt to its service position.

On 10-selection shelves, the adjustable wall must be removed from the compartment. Swing the adjustable wall forward as far as it will go and lift at the two pivot points. Then remove helix as follows:

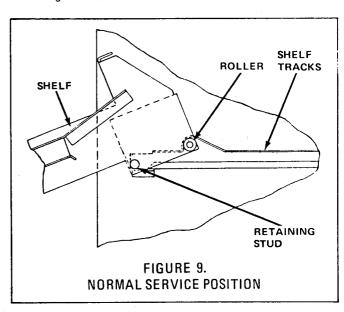


- 2. Grasp the front of the helix coil to be removed and lift straight up. This will release the helix from the helix hub at the rear of the shelf and the helix will be free in your hand. (See Figure 8.)
- To replace the helix, make sure that the helix tip
  at the rear is pointing downward into the gap in
  helix hub. Drop the helix into the compartment.
  Push bottom coil of helix rearward to snap into
  detent at bottom of the hub.

#### SHELF REMOVAL

Shelf removal in the Rowe Snack Vendor is an easy operation. Remove shelf as follows:

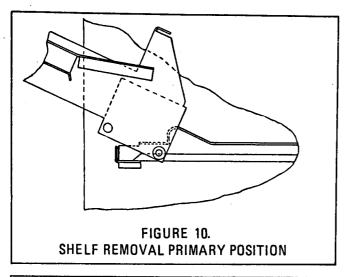
 Pull shelf out to normal service position. (See Figure 9.)

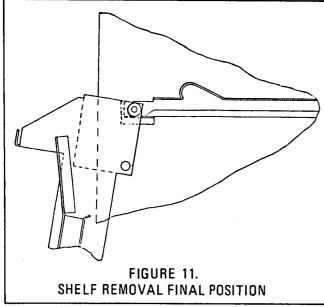


- Lift front of the shelf and continue to pull forward, making sure that the retaining studs clear the gap in the shelf supports. (See Figure 10.) Continue pulling shelf forward until it stops.
- Lower the front end of the shelf and it will hang vertically in front of the machine. (See Figure 11.)

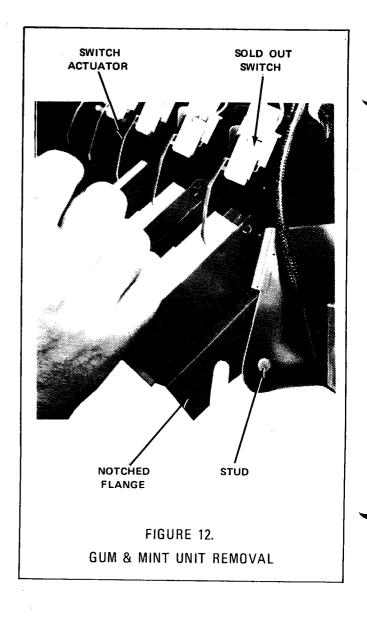
#### CAUTION

WHEN CHANGING, DISCONNECTING OR CONNECTING ANY ELECTRICAL COMPONENTS, MAIN SWITCH MUST BE IN THE "OFF" POSITION.





4. Grasp the sides of the shelf and lift up and out.

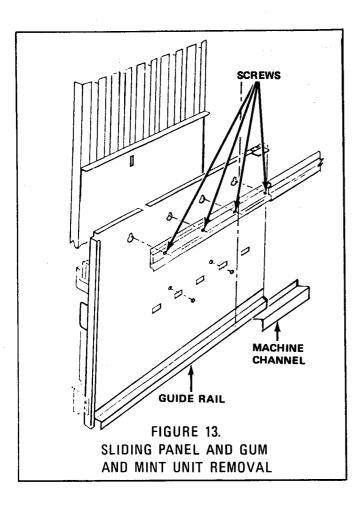


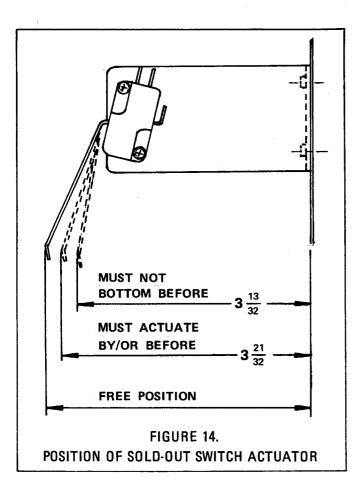
#### **GUM AND MINT UNIT REMOVAL**

- Pull sliding panel assembly all the way forward until it stops.
- 2. Release the latch holding Gum and Mint Unit and lower unit to the servicing position.
- 3. Disconnect the Gum and Mint harness plug.
- 4. Grasp the left and right sides of the Gum and Mint Unit and tilt it up to an angle approximately half way between the vertical and servicing positions.
- 5. Lift the Gum and Mint Unit straight up until the notched flanges disengage the studs on both sides, then allow the entire unit to slide downward and towards you until unit is clear of the Gum and Mint sold out switches. See Figure 12.
- 6. Reassemble in reverse order.

#### NOTE

When removing or installing the Gum and Mint Unit, care must be taken not to distort the Gum and Mint sold out switch actuators. See Figure 14.





#### SLIDING PANEL REMOVAL - Figure 13

- Pull sliding panel assembly all the way forward until it stops.
- Remove Gum and Mint Unit as described in Gum and Mint Unit Removal section.
- 3. Disconnect electrical connections to main cabinet harness.
- Loosen, but do not remove, the four screws holding the sliding panel assembly to the slide rail assembly.
- Carefully lift sliding panel free of the slide rail assembly.
- To reinstall the sliding panel, hook the guide rail on the bottom of the panel into the channel secured to the cabinet.
- 7. Tilt the panel to the vertical position allowing the anchoring screw heads to enter the keyhole slots.
- 8. Push the panel downwards until the anchoring screws are firmly seated in the keyhole slots. Tighten screws.
- 9. Reinstall Gum & Mint Unit.
- Reconnect all electrical harnesses and test vend for proper operation.

#### **DRIVE MOTOR**

The 4900S and 4900JR Snack Vendors incorporate the use of a high RPM DC motor. The new DC motor has a much greater starting torque over the AC motors previously used and should provide long, reliable life. Due to the new design the vend motors may no longer be homed by hand. DO NOT TRY TO TURN THE SPIRALS BY HAND. DAMAGE TO THE MOTOR WILL RESULT. Let the machine do the homing.

Should it be necessary to replace a motor, follow this procedure:

- 1. Remove shelf from machine.
- 2. Remove plastic helix hub (phillips head screw thru center).
- 3. Remove 3 screws mounting the motor.
- 4. Disconnect harnesses from P.C. board and switch.

To install replacement motor, reverse procedure.

#### SELECTOR BUTTON ASSEMBLY

The Selector Button assembly in the 4900S and in the 4900JR is a sturdy, reliable assembly developed and constantly improved over many years. The buttons exposed to the public are high impact plastic nested to bases soldered into an extremely reliable P.C. Board.

Should it ever be necessary to replace this assembly or parts thereof, proceed as follows:

- 1. Remove selector cover.
- 2. Disconnect cable.
- 3. Remove 4 mounting screws. (Note: do not remove screws mounting the P.C. board.)
- 4. Remove assembly.

To install, reverse procedure.

#### PRICE, SELECTION NUMBERS

These are highly reliable, long life LED's. Ordinarily they should last the life of the machine.

Should it become necessary to replace any of these components, proceed as follows:

- 1. Remove cover.
- 2. Disconnect cable.
- 3. Remove 4 mounting screws.
- 4. Unplug affected number. Caution pins are easily bent. Remove and reinstall with care.
- 5. Replace and reverse procedure.

#### NOTE

Indicator LED's (Fault, Make Another Selection) are soldered to the P.C. board. If failure occurs, replace the board assembly.

## Section - 6 Parts Catalog

#### INTRODUCTION

This parts catalog contains a list of replacement parts for the vendor that are available from Rowe Distributors. Each list contains an index of the part, Rowe Part Number, a description of the part and the quantity required for the assembly. Separate parts of riveted or welded assemblies are not available from the factory as replacement parts.

#### PARTS BREAKDOWN

Each table in the Parts Breakdown contains four columns. Following is a description of each column in the order of appearance on the Parts Breakdown tables.

#### FIG. AND INDEX NO.

This column lists the figure number as the first entry on each page. An index number keys the part to the figure.

#### **ROWE PART NO.**

This column lists the part number of the item that should be used for ordering. The same part, whenever used, retains the same number.

#### DESCRIPTION

This column gives the name of the assembly or part.

#### QTY. PER ASSY.

This column contains the exact quantity of the item required for its next higher assembly.

#### ORDERING REPLACEMENT PARTS

All parts must be ordered from an authorized Rowe Distributor. Parts orders are often delayed because of inadequate or incomplete ordering information. Be sure to include all required information which consists of:

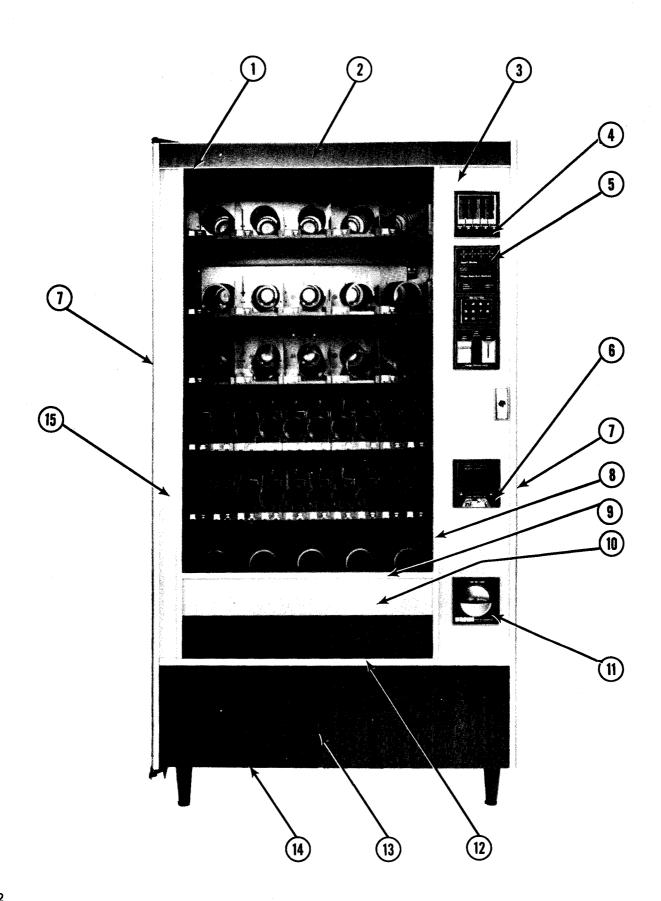
- Rowe Part Number and Description exactly as it appears in the Parts Catalog. State color if applicable.
- 2. Quantity being ordered.
- Model and Serial Number of vendor for which the part is required. This is necessary because of Manufacturing changes.
- 4. Complete shipping address including ZIP code.
- 5. Specify shipping instructions. It is advisable to indicate an alternate shipping method if the packages may exceed the size and weight limits established by the shipping agency of your choice.

#### **TABLE OF CONTENTS**

FIG. NO.	TITLE PAGE	PAGE	
1 .	Main Door Trim and Panels		
2	Main Door Exterior 6 - 4		
3	Main Door Interior		
4	Cabinet Assembly Components 6 - 8		
5	Selection Panel Components		
6	Shelf Support and Plug Assemblies 6 - 11		
7	Lower Cabinet Components 6 - 12		
8	Delivery Box Assembly		
9	Sliding Panel Components		
10	Gum & Mint Unit Assembly 6 - 18		
11	Sliding Panel Assembly		
12	8 and 10 Selection Shelf Assembly 6 - 22		
13	4 and 5 Selection Shelf Assembly 6 - 23		
14	Power Supply Circuit Board Asm 6 - 24		
15	Main Controller Circuit Board Asm 6 - 26		
_	Harness List		



## Main Door Trim and Panels



	MODEL & STYLE	4900S AWARD	4900JR AWARD	4900S STELLAR	4900JR STELLAR
1.	Header Channel	983-5	983-7	983-6	983-8
2.	Header Insert	985-4-1	985-5-1	493-1442	494-1417
3.	Panel - R/H Vertical w/Gum & Mint, w/ CBA	493-502-7	493-502-7	493-502-79	493-502-79
3.	Panel - R/H Vertical w/o Gum & Mint, w/o CBA	493-503-7	493-503-7	493-503-79	493-503-79
4.	Overlay - Gum & Mint	493-482	493-482	493-481	493-481
5.	Instruction Overlay w/o Bill Acceptor	493-480	493-480	493-479	493-479
5.	Instruction Overlay w/Bill Acceptor	493-478	493-478	493-477	493-477
6.	Overlay - Bill Acceptor	493-505	493-505	493-506	493-506
7.	Trim - L/H & R/H Vertical —	983-101	983-101	983-100	983-100
7.	Trim Retainer —	983-325	983-325	983-325	983-325
8.	Trim - R/H Display Window————	493-427	493-427	983-475	983-475
9.	Trim - Bottom Display —	493-438	494-430	983-476	983-477
10.	Overlay —	490-485-7	494-432-7	490-485-79	494-432-79
11.	Overlay - Coin Return Cup	408-506	408-506	408-505	408-505
12.	Trim - Delivery Door	983-214	983-208	983-215	983-209
12.	Trim Retainer	983-333	983-330	983-333	983-330
13.	Panel - Lower Door	985-23-1	985-24-1	493-1443	494-1418
14.	Trim - Bottom —	493-484-246	494-442-246	493-484-246	494-442-246
15.	Panel - L/H Vertical	985-32-7	985-32-7	985-32-79	985-32-79

There are many combinations of panel and overlay finishes based on individual company preferences. Part numbers for the styling overlays and panels are generally the same with the exception of the last dash number which denotes the finish of the part. For example, item No. 2 above is 985-4-1 (header insert - Roweswood). If this part were desired in a Presidential Walnut finish the part number would be 985-4-2. The chart below lists the dash numbers and the corresponding finish.

#### HORIZONTAL PANELS

- -1 Roweswood
- -15 Stainless Steel Mylar
- 2 Presidential Walnut
- -29 Teak
- Regency Walnut
- -32 Terra Cotta
- 4 Kashmir Walnut
- -9 Black
- -69 Chamois
- -10 Golden Leather
- -80 Gold (Stellar)

#### **VERTICAL PANELS**

- 2 Presidential Walnut
- Shadow Silver
- -11 Brushed Bronze
- -12 Port-Au-Prince
- -15 Stainless Steel Mylar
- -29 Teak
- -79 Charcoal Brown



#### **Main Door Exterior**

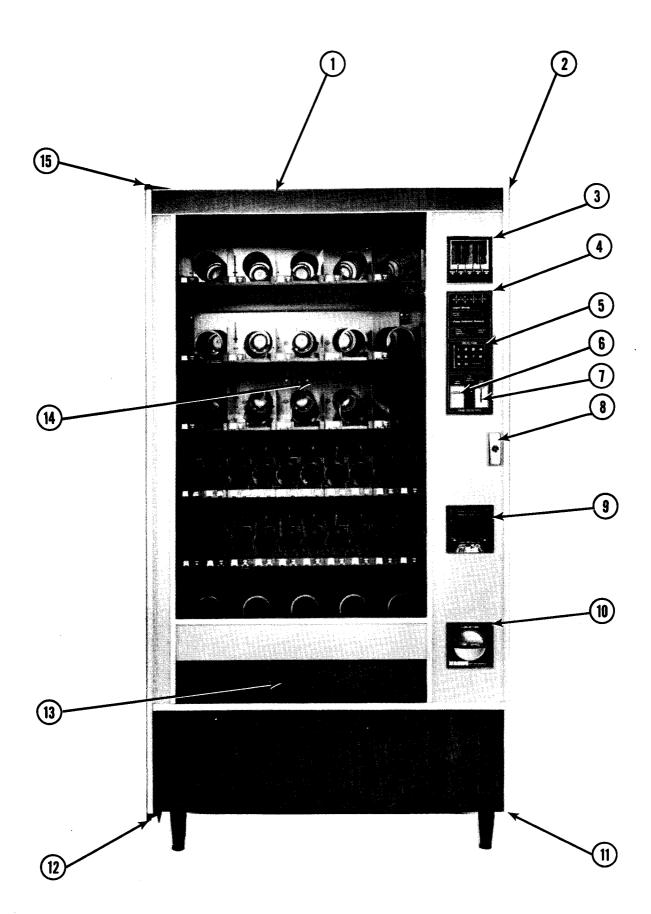


FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY PER ASS
<del></del>	<u> </u>			
1	493-1450	494-1420	Main Door Final Asm.	REF
	493-1441-246	494-1416-246	Main Door W/A	REF
2	408-511	Same	Cap, Trim Top	1
3	408-495	Same	Bezel, Gum and Mint	1
_	924-176	Same	Nut, Bezel Anchoring	2
4	490-592	Same	Bezel, Coin Insert and Instruction	1
•	924-176	Same	Nut, Bezel Anchoring	6
5	490-824	Same	Bezel, Selection Switch (See Fig. 5)	1
6	490-470	Same	Slide, Coin Return	1
7	490-584	Same	Gate, Coin Insert	1
8	479-1420	Same	Handle, Pop-Out	1
9	408-495	Same	Bezel, Bill Acceptor	1
•	924-176	Same	Nut, Bezel Anchoring	2
10	490-408	Same	Bezel, Coin Return Cup	1
	924-176	Same	Nut, Bezel Anchoring	4
11	408-510	Same	Cap, Trim Bottom	1
12	490-1457	448-1407	Pivot Plate R/A, Bottom	1
13	493-1425	494-1402	Delivery Box Asm. See Fig. 8	1
14	493-408	494-428	Glass, Display	1
	928-1805	928-1809	Gasket, Display Glass - Top and Bottom	2
	928-1808	Same	Gasket, Display Glass - L/H and R/H Sides	2
	490-474	494-413	Mounting Bracket, Display Glass - Upper (Behind Trim)	1
15	490-1359	448-1309	Pivot Plate R/A, Top	1
	921-52	Same	Machine Screw	2
	950-102	Same	Washer	2
	903-20	Same	Carriage Bolt	1
	924-160	Same	Nut	1
	934-413	Same	Self Drilling Screw	2

### **Main Door Interior**

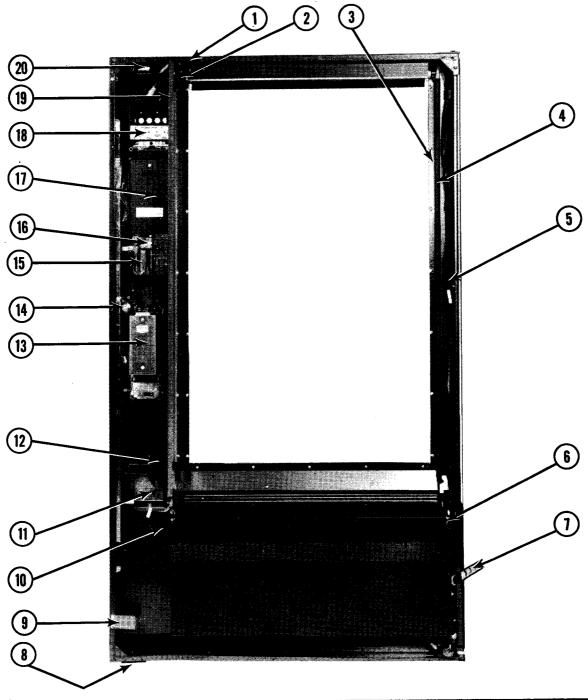
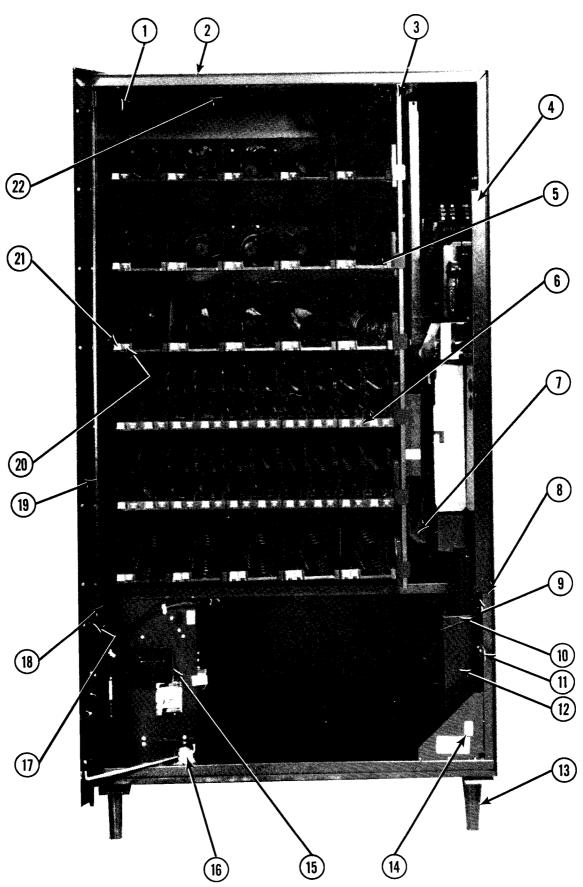


FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
1	4900S 493-1460 493-1461-246	4900JR 494-1460 494-1461-246	Main Door Final Asm. Main Door W/A	REF REF
2	493-1810 141-828 493-412 976-21 917-103	494-1802 794-461 494-411 Same 794-462	Bracket, Lamp Asm. Starter, Fluorescent Lamp Bracket, Lamp Mounting Starter and Socket Asm. Lamp, Fluorescent	1 1 1 1

FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
3	493-411	Same	Bracket, Display Glass Mounting - L/H & R/H Sides	2
	928-1808	Same	Gasket, Display Glass - L/H & R/H Sides	2
4	493-413	Same	Shroud, Delivery Box - L/H Side	, 1
5	490-1872	Same	Harness Asm., Display Light	1
	979-104	Same	Plug	1
	979-1102	Same	Socket - 2 Pin	1
6	493-434	Same	Spring, Delivery Box Link	2
7	493-1852	Same	Harness Asm., Controller/Main Door	1
	979-1102	Same	Socket - 2 Pin	1
	979-1193	Same	Socket - 24 Pin	1
	979-103	Same	Plug	1
	979-203	Same	Plug, Keying	2
	979-1191	Same	Socket - 2 Pin	1
	979-1212	Same	Socket - 11 Pin	2
8	448-739	Same	Plate, Door Ramp	1
_	934-380	Same	Screw, Plate Mounting	2 1
9	485-407	Same	Plate, Interlock Switch Actuating	2
40	934-485	Same	Screw, Plate Mounting	<b>2</b> 1
10	493-1852	Same	Harness Asm., Main Door	1
	979-102	Same	Plug	1
	979-193	Same	Plug Socket - 2 Pin	1
	979-1102	Same Same	Socket - 2 Pin	1
	979-1186 979-1187	Same	Socket - 5 Pin	1
	979-1188	Same	Socket - 14 Pin	1
	979-1100	Same	Socket - 11 Pin	i 1
	979-203	Same	Plug, Keying	2
11	493-1465	Same	Cup Asm., Coin Return	1
11	490-409	Same	Flap, Coin Return Cup	1
	490-424	Same	Pivot Shaft, Coin Return Flap	1
	493-1466	Same	Coin Return Cup W/A	1
12	493-1407	Same	Gum & Mint Chute W/A - (Main Door)	1
'-	493-1913	Same	Filler Blank (for Models W/O Gum & Mint) - Not Shown	1
13	425-6001	Same	Bill Acceptor (CBA-2) See Service Manual 900-42512 for detail.	OPT
14	493-415	494-419	Cam, Door Lock	1
17	490-353	Same	Stop Spring	1
	490-353			1
15		Same	Pin & Locking Bar R/A	1
15	493-1463	Same	Coin Insert & Return Asm.	1
	490-435	Same	Pivot Shaft	2
	490-498	Same	Spring, Coin Return	1
	490-1406	Same	Coin Chute & Bracket W/A	1
4.0	490-1433	Same	Coin Return Lever & Nut Asm.	1
16	448-1598	Same	Indicator Lamp (Use Exact Amount)	1
17	493-1444	Same	Cover W/A, Display & P.C. Board	1
18	490-1472	Same	Gum & Mint Display Box W/A	1
19	493-414	Same	Shroud, Delivery Box R/H Side	1
20	490-1885	Same	Ballast Asm.	1
	956-119	Same	Terminal	1
	956-59	Same	Wire Terminal	1
	956-236	Same	Wire Terminal	1
	979-102	Same	Plug	1



## Cabinet Assembly Components



Second Processing Color   Second Processing Processin	FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
1 493-911 494-901 Same Screw, Shield Anchoring 2 493.1325 494.1310 Cabinet W/A 3 493.334 Same Panel W/A, Shelf Mounting R/H Side 4 493.1921 494.1911 Sliding Panel Asm. See Fig. 11 490.906 Same Slide Rail, Jonathan (Hidden) 5 493.1025 494.1025 Shelf Asm., 5/4 Selection - See Fig. 13 6 493.1020 494.1020 Shelf Asm., 10/8 Selection - See Fig. 12 7 493.1906 Same Gum & Mint Chute W/A 493.910 Same Deflector, Gum & Mint 934.151 Same Screw, Chute Mounting 8 866.68001 Same Guide, Sliding Panel Interface 934.307 Same Bracket, Coin Box Retaining 10 493.920 Same Bracket, Coin Box Retaining 11 493.325 Same Hook, Door Locking 934.277 Same Screw, Lock Hook Mounting 12 493.1910 Same Coin Box W/A 13 408.1316 Same Leg W/A, Cabinet (Includes Leveler) 490.395 Same Channel, Leg Mounting (Not Shown) 14 447.1869 Same Channel, Leg Mounting (Not Shown) 15 493.1850 Same Power Supply Asm See Figs. 7&14 16 490.388 494-91 Mounting Bracket, Fricton Pad 934.323 Same Washer, Curved 934.348 Same Washer, Curved 934.348 Same Washer, Curved 934.348 Same Bracket, Washin Door 17 493.1907 494.1928 Bracket W/A, Security 18 493.323 Same Bracket, Washin Door 19 493.333 494.315 Same Bracket, Washin Door 19 493.333 494.315 Same Bracket, Washin Door 19 493.333 494.315 Same Bracket, Washin Door 10 493.333 494.315 Same Bracket, Washin Door 11 493.1850 Same Washer, Curved 12 493.1807 Same Bracket, Fricton Pad 13 493.323 Same Bracket, Brifle Mounting 14 493.324 Same Bracket, Washin Door 15 493.333 494.315 Same Bracket, Brifle Mounting 934.154 Same Screw, Baffle Mounting 934.154 Same Selection Indicator Assortment		4900S		- 	1
2 493-1325 494-1310 Cabinet W/A 3 493-334 Same Panel W/A, Shelf Mounting R/H Side 4 493-1921 494-1911 Sliding Panel Asm. See Fig. 11 490-906 Same Slide Rail, Jonathan (Hidden) 5 493-1025 494-1025 Shelf Asm., 5/4 Selection - See Fig. 13 6 493-1020 494-1020 Shelf Asm., 10/8 Selection - See Fig. 12 7 493-1906 Same Gum & Mint Chute W/A 493-910 Same Deflector, Gum & Mint 934-151 Same Screw, Chute Mounting 8 866-68001 Same Rubber Channel 9 493-931 Same Guide, Sliding Panel Interface 934-307 Same Screw, Guide Mounting 10 493-920 Same Bracket, Coin Box Retaining 11 493-920 Same Bracket, Coin Box Retaining 12 493-1910 Same Screw, Lock Hook Mounting 13 408-1316 Same Leg W/A, Cabinet (Includes Leveler) 490-395 Same Coin Box W/A 14 477-1869 Same Switch, Main Door Interlock 15 490-388 494-911 Mounting Bracket, Friction Pad 490-391 Same Washer, Curved 934-3323 Same Barcket, Baffle Mounting 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Barcket, Baffle Mounting 19 493-333 494-315 Same Barcket, Baffle Mounting 20 490-1913 Same Selection Indicator Assortment	1	493-911	494-901	The state of the s	
2 493-1325 494-1310 Cabinet W/A 3 493-334 Same Panel W/A, Shelf Mounting R/H Side 4 493-1921 494-1911 Sliding Panel Asm. See Fig. 11 490-906 Same Slide Rail, Jonathan (Hidden) 5 493-1025 494-1020 Shelf Asm., 5/4 Selection - See Fig. 13 6 493-1020 494-1020 Shelf Asm., 10/8 Selection - See Fig. 12 7 493-1906 Same Gum & Mint Chute W/A 493-910 Same Deflector, Gum & Mint 934-151 Same Screw, Chute Mounting 8 866-68001 Same Rubber Channel 9 493-931 Same Guide, Sliding Panel Interface 9 394-307 Same Bracket, Coin Box Retaining 10 493-920 Same Bracket, Coin Box Retaining 11 493-325 Same Hook, Door Locking 934-277 Same Screw, Lock Hook Mounting 12 493-1910 Same Logk W/A 13 408-1316 Same Leg W/A, Cabinet (Includes Leveler) 408-352 Same Leg Leveler 408-352 Same Leg Leveler 408-352 Same Leg Leveler 408-353 Same Switch, Main Door Interlock 15 493-1850 Same Power Supply Asm See Figs. 7&14 Mounting Bracket, Fricton Pad 490-388 494-911 Mounting Bracket, Fricton Pad 490-389 Same Pad, Friction 934-348 Same Bracket, Baffle Mounting 934-154 Same Bracket W/A, Security 934-154 Same Bracket Baffle Mounting 934-154 Same Screw, Baffle Mounting 940-1913 Same Selection Indicator Assortment		934-267	Same		
3 493-334 Same Panel W/A, Shelf Mounting R/H Side 4 493-1921 494-1911 Sliding Panel Asm. See Fig. 11 490-906 Same Slide Rail, Jonathan (Hidden) 5 493-1025 494-1025 Shelf Asm., 5/4 Selection - See Fig. 13 6 493-1020 494-1020 Shelf Asm., 10/8 Selection - See Fig. 12 7 493-1906 Same Gum & Mint Chute W/A 493-910 Same Deflector, Gum & Mint 934-151 Same Screw, Chute Mounting 8 866-68001 Same Rubber Channel 9 493-931 Same Guide, Sliding Panel Interface 9 34-307 Same Screw, Guide Mounting 10 493-920 Same Bracket, Coin Box Retaining 11 493-325 Same Hook, Door Locking 934-277 Same Screw, Lock Hook Mounting 12 493-1910 Same Coin Box WAA 13 408-1316 Same Leg W/A, Cabinet (Includes Leveler) 490-395 Same Channel, Leg Mounting (Not Shown) 14 447-1869 Same Switch, Main Door Interlock 15 493-1850 Same Witch, Main Door Interlock 16 490-388 494-911 Mounting Bracket, Fricton Pad 490-391 Same Pad, Friction 493-922 494-908 Screw, Self Tapping 493-922 494-908 Screw, Self Tapping 19 493-333 494-315 Panel Wid, A, Selettion Mounting 19 493-333 494-315 Panel W/A, Selettion Indicator Assortment	2	493-1325	494-1310		
4 493-1921 494-1911 Sliding Panel Asm. See Fig. 11 490-906 Same Slide Rail, Jonathan (Hidden) 5 493-1025 494-1025 Shelf Asm., 5/4 Selection - See Fig. 13 6 493-1020 494-1020 Shelf Asm., 10/8 Selection - See Fig. 12 7 493-1906 Same Gum & Mint Chute W/A 493-910 Same Deflector, Gum & Mint 934-151 Same Screw, Chute Mounting 8 866-68001 Same Rubber Channel 9 493-931 Same Guide, Sliding Panel Interface 9 934-307 Same Screw, Guide Mounting 10 493-920 Same Bracket, Coin Box Retaining 493-930 Same Spring, Coin Box Retaining 11 493-325 Same Hook, Door Locking 934-277 Same Screw, Lock Hook Mounting 12 493-1910 Same Leg W/A, Cabinet (Includes Leveler) 408-352 Same Leg W/A, Cabinet (Includes Leveler) 408-352 Same Witch, Main Door Interlock 15 493-1850 Same Power Supply Asm See Figs. 7&14 14 471-1869 Same Power Supply Asm See Figs. 7&14 15 490-389 Same Pad, Friction 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Bracket W/A, Security 19 493-333 Same Bracket W/A, Security 19 493-333 Same Bracket W/A, Seir Mounting 20 490-1913 Same Screw, Belffel Mounting 31 493-333 Same Bracket W/A, Security 32 494-308 Screw, Self Tapping 33-154 Same Bracket, Baffle Mounting 340-1913 Same Selection Indicator Assortment		493-334	Same		
1996   Same		493-1921	494-1911	Sliding Panel Asm. See Fig. 11	
5         493-1025         494-1025         Shelf Asm., 5/4 Selection - See Fig. 13         RE           6         493-1020         494-1020         Shelf Asm., 10/8 Selection - See Fig. 12         RE           7         493-1906         Same         Gum & Mint Chute W/A         1           493-910         Same         Deflector, Gum & Mint         1           934-151         Same         Rubber Channel         A//           8         866-68001         Same         Rubber Channel         A//           9         493-931         Same         Guide, Sliding Panel Interface         1           934-307         Same         Same Screw, Guide Mounting         1           10         493-920         Same         Bracket, Coin Box Retaining         1           11         493-930         Same         Hook, Door Locking         2           934-277         Same         Coin Box W/A         1           12         493-1910         Same         Coin Box W/A         1           13         408-1316         Same         Leg W/A, Cabinet (Includes Leveler)         4           490-395         Same         Power Supply Asm. See Figs. 7&14           490-389         Same         Power Supply Asm.		490-906	Same		
6         493-1020         494-1020         Shelf Asm., 10/8 Selection - See Fig. 12           7         493-1906         Same         Gum & Mint Chute W/A         1           934-151         Same         Deflector, Gum & Mint         1           934-151         Same         Screw, Chute Mounting         2           8         866-68001         Same         Rubber Channel         A/           9         493-931         Same         Guide, Sliding Panel Interface         1           10         493-920         Same         Bracket, Coin Box Retaining         1           10         493-930         Same         Spring, Coin Box Retaining         1           11         493-325         Same         Hook, Door Locking         2           934-277         Same         Screw, Lock Hook Mounting         6           12         493-1910         Same         Leg W/A, Cabinet (Includes Leveler)         4           408-352         Same         Leg Leveler         Channel, Leg Mounting (Not Shown)           4447-1869         Same         Switch, Main Door Interlock           15         493-1850         Same         Power Supply Asm See Figs. 7&14           490-389         Same         Washer, Curved	5		494-1025	Shelf Asm., 5/4 Selection - See Fig. 13	REF
7 493-1906 Same Gum & Mint Chute W/A				Shelf Asm., 10/8 Selection - See Fig. 12	REF
493-910   Same   Deflector, Gum & Mint   934-151   Same   Screw, Chute Mounting   A/    8					1
Same	•			Deflector, Gum & Mint	1
8 866-68001 Same   Rubber Channel   A// 9 493-931 Same   Guide, Sliding Panel Interface   1 10 493-920 Same   Bracket, Coin Box Retaining   1 11 493-325 Same   Hook, Door Locking   342-77 Same   Screw, Lock Hook Mounting   1 12 493-1910 Same   Coin Box Retaining   1 13 408-1316 Same   Leg W/A, Cabinet (Includes Leveler)   408-352 Same   Leg Leveler   490-395 Same   Switch, Main Door Interlock   493-1850 Same   Power Supply Asm See Figs. 7&14   16 490-388 494-911   Mounting Bracket, Fricton Pad   490-391 Same   Pad, Friction   490-391 Same   Pad, Friction   493-922 494-908   Stop Rod, Main Door   493-922 494-908   Bracket W/A, Security   893-323 Same   Baffle, Delivery Box   493-323 Same   Barfle, Delivery Box   493-333 494-315   Panel W/A, Self Mounting - L/H Side   200-201   200-20					2
9 493-931 Same Screw, Guide Mounting 10 493-920 Same Bracket, Coin Box Retaining 493-930 Same Spring, Coin Box Retaining 11 493-325 Same Hook, Door Locking 934-277 Same Coin Box W/A 12 493-1910 Same Coin Box W/A 13 408-1316 Same Leg W/A, Cabinet (Includes Leveler) 408-352 Same Leg Leveler 490-395 Same Switch, Main Door Interlock 15 493-1850 Same Power Supply Asm See Figs. 7&14 16 490-388 494-911 Mounting Bracket, Friction Pad 490-391 Same Washer, Curved 934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 934-333 494-315 Panel W/A, Selection Indicator Assortment	8			· · · · · · · · · · · · · · · · · · ·	A/R
934-307 Same Screw, Guide Mounting 10 493-920 Same Bracket, Coin Box Retaining 11 493-930 Same Spring, Coin Box Retaining 11 493-325 Same Hook, Door Locking 934-277 Same Screw, Lock Hook Mounting 12 493-1910 Same Coin Box W/A 13 408-1316 Same Leg W/A, Cabinet (Includes Leveler) 408-352 Same Leg Leveler 490-395 Same Channel, Leg Mounting (Not Shown) 14 447-1869 Same Switch, Main Door Interlock 15 493-1850 Same Power Supply Asm See Figs. 7&14 16 490-388 494-911 Mounting Bracket, Friction Pad 490-389 Same Pad, Friction 490-381 Same Washer, Curved 934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side Selection Indicator Assortment				Guide, Sliding Panel Interface	1
10			Same	Screw, Guide Mounting	1
11	10		Same	Bracket, Coin Box Retaining	1
934-277 Same Screw, Lock Hook Mounting  12 493-1910 Same Coin Box W/A  13 408-1316 Same Leg W/A, Cabinet (Includes Leveler)  408-352 Same Leg Leveler  490-395 Same Switch, Main Door Interlock  15 493-1850 Same Power Supply Asm See Figs. 7&14  16 490-388 494-911 Mounting Bracket, Fricton Pad  490-391 Same Pad, Friction  490-391 Same Washer, Curved  934-348 Same Screw, Self Tapping  493-922 494-908 Stop Rod, Main Door  17 493-1907 494-1928 Bracket W/A, Security  18 493-323 Same Baffle, Delivery Box  493-324 Same Screw, Baffle Mounting  934-154 Same Screw, Baffle Mounting  19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side		493-930	Same	Spring, Coin Box Retaining	1
12 493-1910 Same Coin Box W/A  13 408-1316 Same Leg W/A, Cabinet (Includes Leveler)  408-352 Same Leg Leveler  490-395 Same Channel, Leg Mounting (Not Shown)  14 447-1869 Same Switch, Main Door Interlock  15 493-1850 Same Power Supply Asm See Figs. 7&14  16 490-388 494-911 Mounting Bracket, Fricton Pad  490-391 Same Pad, Friction  490-391 Same Washer, Curved  934-348 Same Screw, Self Tapping  493-922 494-908 Stop Rod, Main Door  17 493-1907 494-1928 Bracket W/A, Security  18 493-323 Same Baffle, Delivery Box  493-324 Same Bracket, Baffle Mounting  934-154 Same Screw, Baffle Mounting  19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side  Selection Indicator Assortment	11		Same		2
12 493-1910 Same Coll Box W/A  13 408-1316 Same Leg W/A, Cabinet (Includes Leveler)  408-352 Same Leg Leveler  490-395 Same Channel, Leg Mounting (Not Shown)  14 447-1869 Same Switch, Main Door Interlock  15 493-1850 Same Power Supply Asm See Figs. 7&14  16 490-388 494-911 Mounting Bracket, Fricton Pad  490-389 Same Pad, Friction  490-391 Same Washer, Curved  934-348 Same Screw, Self Tapping  493-922 494-908 Stop Rod, Main Door  17 493-1907 494-1928 Bracket W/A, Security  18 493-323 Same Baffle, Delivery Box  493-324 Same Bracket, Baffle Mounting  934-154 Same Screw, Baffle Mounting  19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side  20 490-1913 Same Selection Indicator Assortment		934-277	Same		
408-352 Same Leg Leveler 490-395 Same Channel, Leg Mounting (Not Shown)  14 447-1869 Same Switch, Main Door Interlock 15 493-1850 Same Power Supply Asm See Figs. 7&14  16 490-388 494-911 Mounting Bracket, Fricton Pad 490-389 Same Pad, Friction 490-391 Same Washer, Curved 934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door  17 493-1907 494-1928 Bracket W/A, Security  18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment	12	493-1910	Same		
490-395 Same Channel, Leg Mounting (Not Shown)  14	13		Same	<del>-</del>	
14					2
15					1
16			-		1
490-389 Same Pad, Friction 490-391 Same Washer, Curved 934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Friction 934-154 Same Bracket, Friction Washer, Curved 934-916 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment		-			1
490-391 Same Washer, Curved 934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment	16				2
934-348 Same Screw, Self Tapping 493-922 494-908 Stop Rod, Main Door 17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment					2
493-922 494-908 Stop Rod, Main Door  17 493-1907 494-1928 Bracket W/A, Security  18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment					4
17 493-1907 494-1928 Bracket W/A, Security 18 493-323 Same Baffle, Delivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment					1
18	47				1
493-323 Same Barrie, Derivery Box 493-324 Same Bracket, Baffle Mounting 934-154 Same Screw, Baffle Mounting 19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment					1
934-154 Same Screw, Baffle Mounting  19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side  20 490-1913 Same Selection Indicator Assortment	18				1
19 493-333 494-315 Panel W/A, Shelf Mounting - L/H Side 20 490-1913 Same Selection Indicator Assortment					4
20 490-1913 Same Selection Indicator Assortment	10				1
71) 490-1913 Same Selection indicator Assorting				and the second of the second o	1
21 490-1920 Same Selection Price Card Assortment					1
22 493-944 494-919 Top Baffle (5 Shelf Vendors, not shown)					

### **Selection Panel Components**

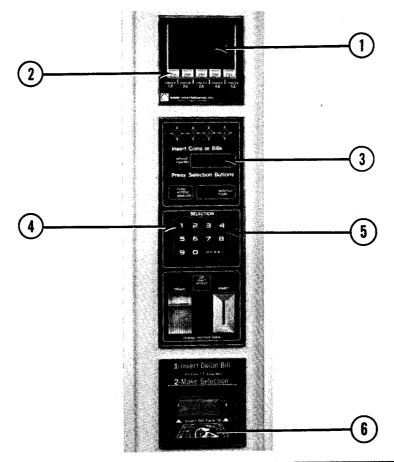


FIG. AND INDEX NO.	ROWE PART NO.		DESCRIPTION		QTY. PER ASM.
			AND A SAME A STANLAR	-	1
1	490-505		Window, Gum & Mint Display		1
2	490-1921		Price Card Assortment, Gum & Mint	•	1
3	010-6077		Display Board Asm .		1
4	010-4076	34-301	Selector Pushbutton Asm.		1
	490-201		No. 1 Pushbutton		1
	490-202		No. 2 Pushbutton		1
	490-203		No. 3 Pushbutton		1
	490-204		No. 4 Pushbutton		1
	490-205		No. 5 Pushbutton		1
	490-206		No. 6 Pushbutton		1
	490-207		No. 7 Pushbutton		1
	490-208		No. 8 Pushbutton		1
	490-209		No. 9 Pushbutton		•
	490-200		No. 0 Pushbutton		1
	490-221		"Reset" Pushbutton		11
	490-1861	1	Selector Switch (Part of 490-1860)		11
	490-820		Switch Mounting Plate		1
	490-821		P.C. Board, Selector		1
	490-825		Spacer, P.C. Board Mounting		1
5	490-824		Bezel, Selection Switch (Black Plastic Grid Between Buttons)		1
6	907-203	9	Label, "Insert Bill Face Up"	(NI - 4 - Cl )	ı
6 - 10	493-400	3	Service Plate — Covers Hole if Bill Acceptor is removed for service.	(Not Shown)	

# Shelf Support and Plug Assemblies 6



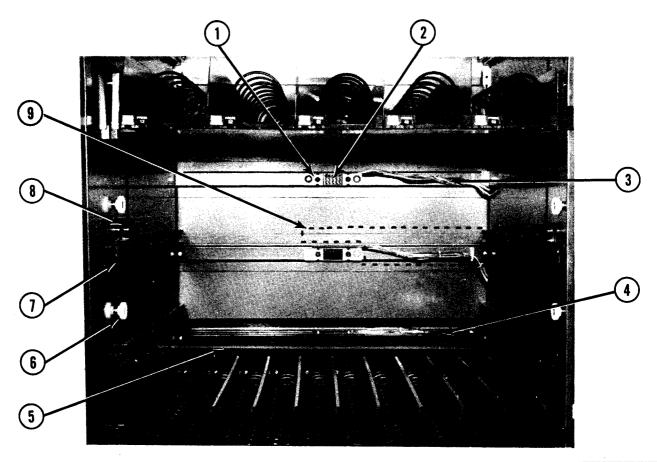


FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
1	493-1307	Same	Plug Bracket W/A	6
	493-315	Same	Plug Bracket	1
	490-352	Same	Step Washer	2
2	979-1173	Same	Socket,15 Pin Female	6
3	493-1855	494-1806	Harness Asm., Main Cabinet	1
	979-102	Same	Plug	1
	979-169	Same	Pin	12
	979-1105	Same	Socket - 3 Pin	1
	979-1173	Same	Socket - 15 Pin	6
	979-1220	Same	Socket - 10 Pin	1
	979-1221	Same	Socket - 16 Pin	1
4	493-322	494-306	Main Harness Support (Positions 2 & 5 from top)	2
5	490-379	Same	Tie Bar Bracket	1
	934-307	Same	Screw, Bracket Mounting	4
6	490-5	Same	Roller, Shelf	12
	490-6	Same	Bushing, Shelf Roller	12
	934-441	Same	Screw, Self Tapping	12
7	493-1308	Same	Lower Shelf Support W/A - L/H Side	. 4
	493-1309	Same	Lower Shelf Support W/A - L/H Side	4 -
8	493-1321	Same	Upper Shelf Support W/A - L/H Side	4
	493-1322	Same	Upper Shelf Support W/A - R/H Side	4
9	493-813	494-800	Cover, Shelf Harness (Not Shown)	6



## **Lower Cabinet Components**

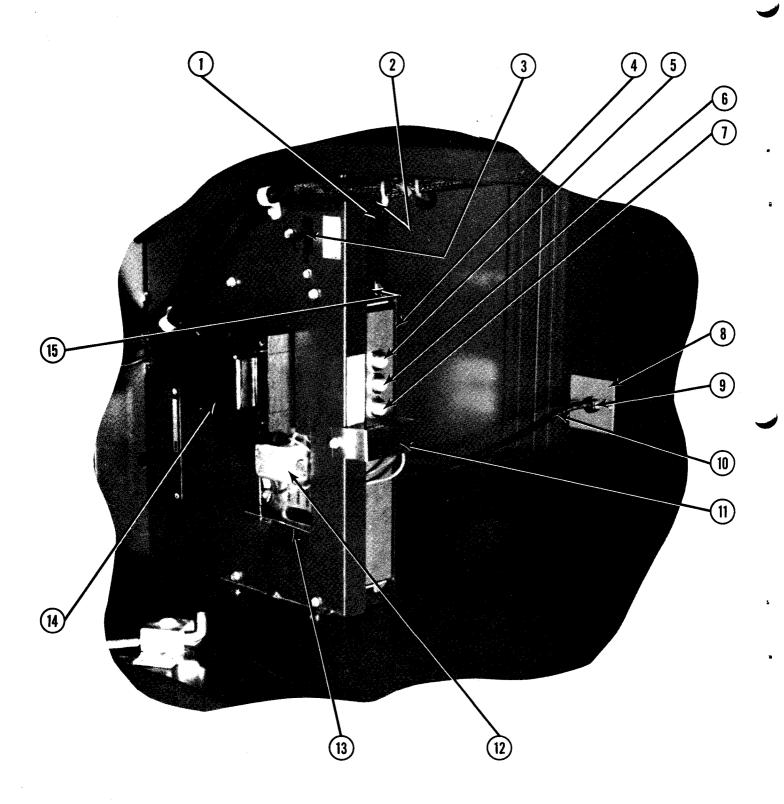


	FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASM.
				-
	1	493-1861	Power Switch Asm.	REF
	2	912-50	Circuit Breaker, 7 Amp Main Line (not shown)	1
	3	301-1711	Switch, Main Line	1
		921-203	Screw, Switch Mounting	2
	4	493-1850	Power Supply Asm. (includes next 4 line items)	1
		493-804	Bracket, Power Supply Mounting	2
		493-805	Cover, Rear	1
		934-307	Screw, Power Supply Mounting	4
		448-1597	Power Supply Asm. only	1
	5	912-76	Circuit Breaker, 5 Amp	1
	6	912-74	Circuit Breaker, 2 Amp	1
	7	912-75	Circuit Breaker, 3 Amp	1
	8	112-20500	Plate, Grommet	1
	9	916-16	Grommet, Strain Relief	1
	10	493-1856	Power Cord Asm.	1
	11	493-806	Bracket, Plug Retainer	1
		934-307	Screw, Bracket Mounting	2
	12	448-4588	Filter, Line "Noise" (R.I.F.)	1
_		934-319	Screw, Filter Mounting	2
`	13	493-328	Reflector, LED	1
		934-307	Screw, Reflector Mounting	2
	14	40790001	Transformer, Power Supply	1
	15	448-4039	Regulator, Voltage (behind wall)	1
		70046006	Insulator, Voltage Regulator	1
		934-253	Screw, Regulator Mounting	2

## **Delivery Box Assembly**

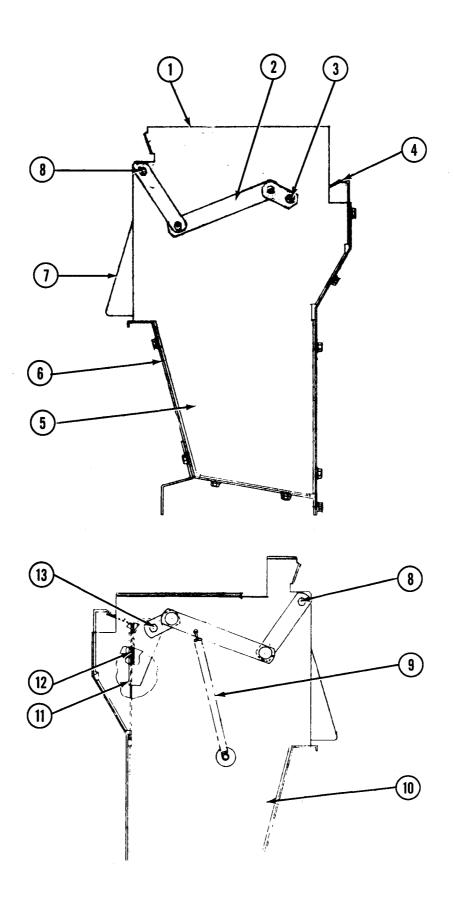


FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
			D. U. and D. and Americking	1
1	493-1425	494-1402	Delivery Box Assembly	2
2	493-1436	Same	Delivery Box Linkage Rivet Assembly	1
3	921-310	Same	Machine Screw 8-32 x 5/16	1
	950-154	Same	Lock Washer	1
	916-88	Same	Grommet	2
	493-456	Same	Spacer	2
4	493-1432	494-1408	Rear Cover Weld Assembly	1
5	493-1438	Same	Right Hand Frame Weld Assembly	1
6	493-1433	494-1407	Front Cover Weld Assembly	1
7	493-1434	494-1405	Front Door Rivet Assembly	1
8	921-310	Same	Machine Screw 8-32 x 5/16	1
	950-344	Same	Lock Washer	1
	916-88	Same	Grommet	1
	493-456	Same	Spacer	1
9	490-353	Same	Delivery Door Stop Spring	1
10	493-1437	Same	Left Hand Frame Rivet Assembly	1
11	493-1428	494-1406	Delivery Box Rear Baffle Rivet Assembly	1
12	490-452	494-422	Rear Baffle	1
13	921-299	Same	Machine Screw 8-32 x 5/16	1
	916-88	Same	Grommet	1
	493-456	Same	Spacer	1



## **Sliding Panel Components**

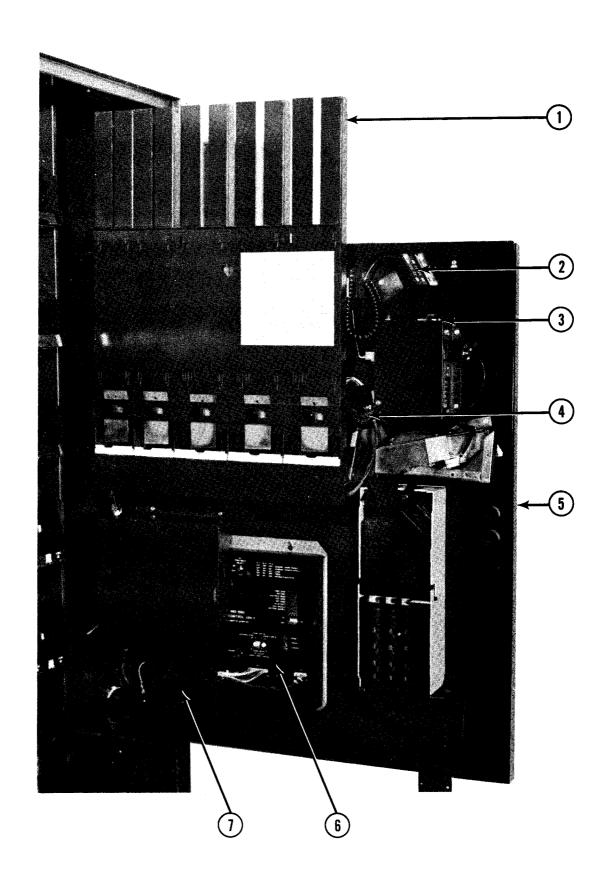


FIG. AND INDEX NO.	4900S PART NUMBER	4900. PAR NUMB	Т	DESCRIPTION	QTY. PER ASSY
	4900S	4900JR			
1	493-1700	Same	Gun	& Mint Unit - Complete - See Fig. 10	1
2	490-1887	Same	Han	d Held Module Asm.	1
3	493-1860	Same	Coir	Mech and Vend Switch Asm.	1
	204-1812	Same	"	Diagnostic Clear" Switch	1
	490-832	Same	S	pacer, P.C. Board	2
	490-1884	Same	T	est and Inventory Switch Asm.	1
	493-801	Same	C	oin Mech Socket Chassis	1
	493-803	Same	T	est Vend Safety Bracket	1
4	493-1867	Same	Coir	Mech Socket Harness Asm.	1
	979-1217	Same	S	ocket - 18 Pin	1
	979-1218	Same	S	ocket - 12 Pin	1
	979-74	Same	Р	lug - 12 Pin	1
	979-203	Same	Р	lug (Keying)	4
	979-1072	Same	S	ocket, Connector	1
	979-1102	Same	S	ocket - 2 Pin	1
	979-1202	Same	S	ocket - 13 Pin	1
	979-1219	Same	S	ocket - 7 Pin	1
	979-1221	Same	S	ocket - 16 Pin	1
	979-1222	Same	S	ocket - 12 Pin	1
5	493-1926	494-1926	Slid	ng Panel Asm. See Fig. 11	1
6	493-1500	Same	Maiı	n Controller Asm. See Fig. 16	1
7	493-807	Same	Cov	er, Main Controller	1
	934-307	Same	S	crew, Cover Mounting	3



## Gum & Mint Unit Final Assembly

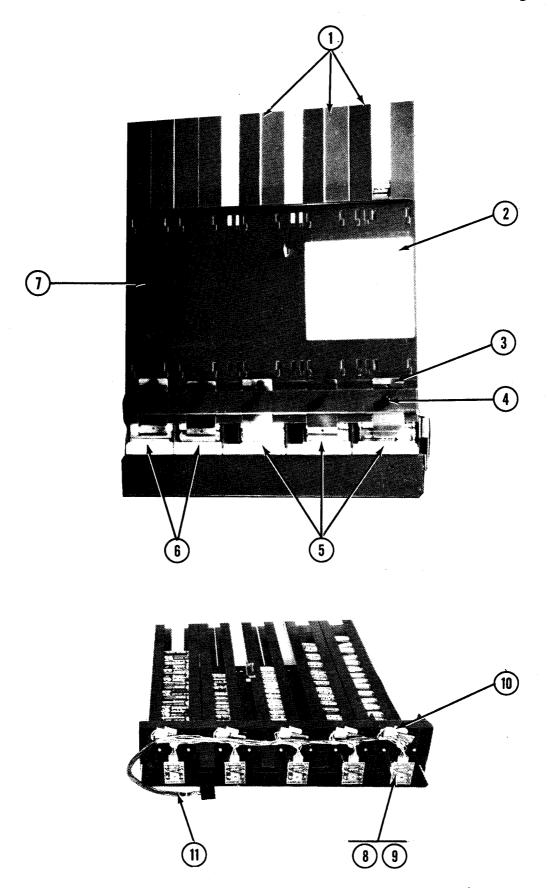


FIG. AND INDEX	ROWE PART NO.	DESCRIPTION	QTY PER ASS
NO.	1.00.		
	493-1700	Gum and Mint Final Assembly	REF
1	493-708	Gum and Mint Column	3
2	907-2037	Gum and Mint Adjust Label	1
3	493-711	Gum and Mint Gate	5
4	408-431	Torque Knob	5
5	493-710	Gum and Mint Slide - 4"	3
6	493-709	Gum and Mint Slide - 3"	2
7	493-1701	Gum and Mint Unit Weld Assembly	1
8	490-705	Gum and Mint Crank Motor	5
9	490-1725	Gum and Mint Motor Assembly	5
10	147-1829	Motor Full Cycle Sensing Switch	1
11	493-1874	Gum and Mint Harness Assembly	1
	979-238	Plug	1
	979-1180	Socket	5



## Sliding Panel Assembly

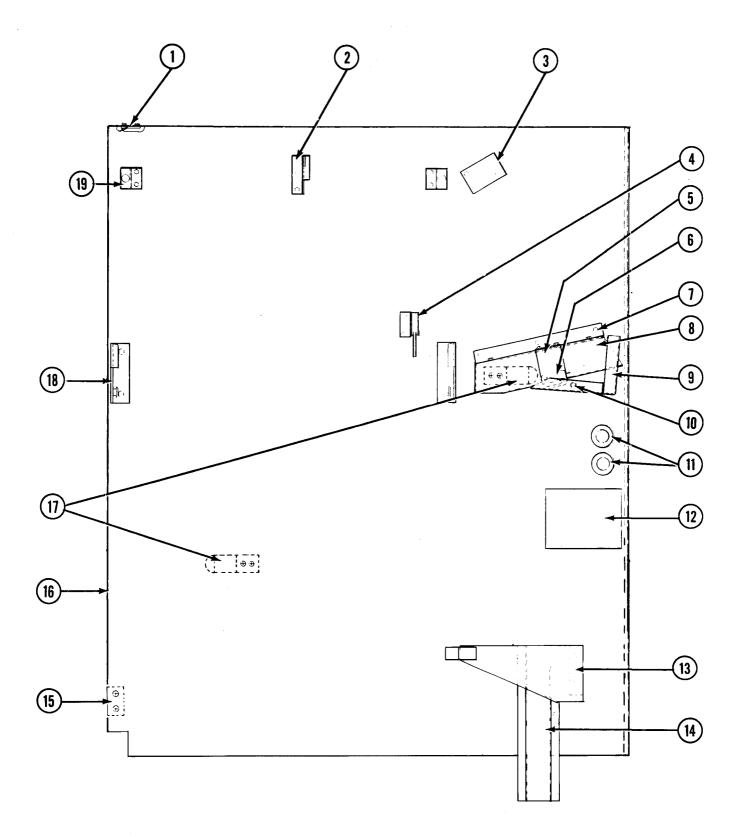




FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY. PER ASSY
	493-1926	494-1926	Sliding Panel Assembly	REF
1	490-604	_	Sliding Panel Stop	1
2	493-1905	Same	Gum and Mint Latch Assembly	1
	147-49	Same	Bracket Mounting Alignment Spacer	1
	485-647	Same	Drag Link Spring	1
	493-902	Same	Gum and Mint Latch	1
	493-903	Same	Latch Mounting Bracket	1
3	490-589	Same	Hand-Held Unit Mounting Bracket	1
4	493-1811	Same	Gum and Mint Switch	5
	493-800	Same	Gum and Mint Switch Bracket	5
5	493-936	Same	Bill Acceptor Switch Mounting Bracket	1
6	212-1742	Same	Bill Acceptor Switch	1
7	493-915	Same	Coin Mech Chute Mounting Bracket	1
8	493-916	Same	Coin Mech Chute	1
	493-917	Same	Inner Coin Mech Chute	1
9	493-1908	Same	Coin Return Lever Weld Assembly	1
10	490-612	Same	Coin Lever Pivot Pin	1
	933-30	Same	Retaining Ring	1
	490-616	Same	Coin Return Torsion Spring	1
11	493-926	Same	Recessed Plug	2
12	907-2113	Same	Caution Label	1
13	490-1607	Same	Slug Cup Chute Weld Assembly	1
14	493-1928	494-1929	Lower Coin Chute Weld Assembly	1
15	-	494-906	Sliding Panel Stop Angle	1
16	493-1927	494-1927	Sliding Panel Weld Assembly	1
17	494-915	Same	Sliding Panel Friction Spring	2
18	493-1903	Same	Gum and Mint Unit Mounting Bracket Rivet Assembly - Left Hand	1
	493-1904	Same	Gum and Mint Unit Mounting Bracket Rivet Assembly - Right Hand	1 `
19	493-904	Same	Gum and Mint Unit Stop	2
	493-908	Same	Gum and Mint Deflector	2



# 8 or 10 Selection Shelf Assembly

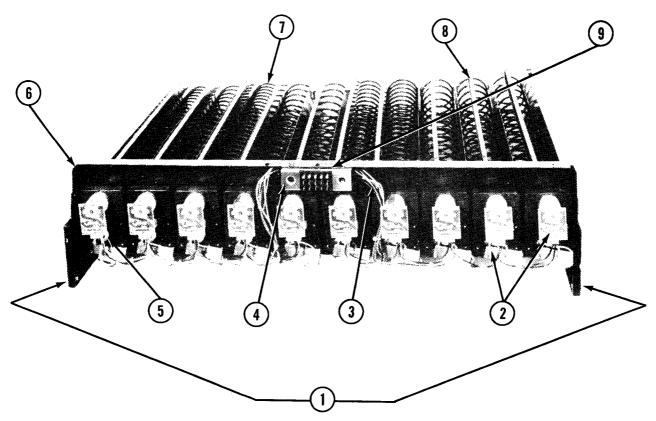
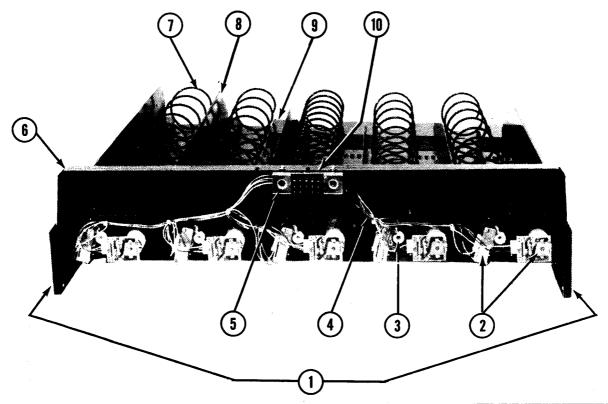


FIG. AND INDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION	QTY PER ASSY 4900S	QTY PER ASSY 4900JR
	493-1020	494-1020 Shelf Final Assembly		REF	REF
1	490-5	Same	Shelf Roller	2	2
	490-42	Same	Shelf Roller Bushing	2	2
	934-441	Same	Self Tapping Screw	2	2
	924-64	Same	Nut	2	2
2	490-1725	Same	Motor Assembly	10	8
_	147-1829	Same	Motor Full Cycle Sensing Switch	10	1
3	490-1866	Same	Shelf Harness Assembly	1	1
	979-1180	Same	Socket	10	8
4	493-2	Same	Plug Bracket Assembly	1	1
	979-253	Same	Plug, 15 Pin, Male	1	i
	979-169	Same	Pin, Plug Anchoring	2	2
5	490-27	Same	Helix Hub	10	8
6	493-1021	494-1021	Shelf Weld Assembly	1	1
7	490-31	Same	Helix – 15 Item (Candy)		OPT
	490-30	Same	Helix — 18 Item (Candy)	OPT	OPT
	490-29	Same	Helix — 24 Item (Candy)	OPT	OPT
	490-28	Same	Helix - 30 Item (Candy)	OPT	OPT
8	490-4519	Same	Product Adjustment Arm Assembly	10	8
	490-8	Same	Retaining Block	2	2
	490-19	Same	Adjustment Wall Arm	2	2
	490-21	Same	Adjustment Wall	2	2
	490-4	Same	Product Guide — Black (Not Shown)	4	4
	490-6	Same	Product Guide — Brown (Not Shown)	4	4
9	493-9	Same	Shelf Plug Cover (Not Shown)	6	6

### 4 or 5 Selection Shelf Assembly





1.	FIG. AND NDEX NO.	4900S PART NUMBER	4900JR PART NUMBER	DESCRIPTION		QTY PER ASSY 4900S	QTY PER ASSY 4900JR
		493-1025	494-1025	Shelf Final Assembly		REF	REF
1		490-5	Same	Shelf Roller		2	2
		490-42	Same	Roller Bushing		2	2
		934-441	Same	Self Tapping Screw	1	2	2
		924-64	Same	Nut		2	2
2	2	490-1725	Same	Motor Assembly		5	4
		147-1829	Same	Motor Full Cycle Sensing Switch		1	1
3	3	490-27	Same	Helix Hub		5	4
4	ļ	490-1865	Same	Shelf Harness Assembly		1	1
		979-1180	Same	Socket		5	4
5	;	493-2	Same	Plug, Bracket Assembly		1	1
		979-253	Same	Plug, 15 Pin Male		1	1
		979-169	Same	Pin, Plug Anchoring		2	2
6	3	493-1026	494-1026	Shelf Weld Assembly		1	1
7	,	490-34	Same	Helix – 10 Item (Snack)		OPT	OPT
		490-33	Same	Helix — 12 Item (Snack)		OPT	OPT
		490-32	Same	Helix — 15 Item (Snack)		OPT	OPT
8	3	490-1010	Same	Product Adjustment Wall Rivet Assembly		3	2
9	)	490-14	Same	Product Guide — Black		5	4
		493-5	Same	Product Guide — Brown		5	4
10	)	493-9	Same	Shelf Plug Cover (Not Shown)		6	6



### Power Supply Circuit Board Asm.

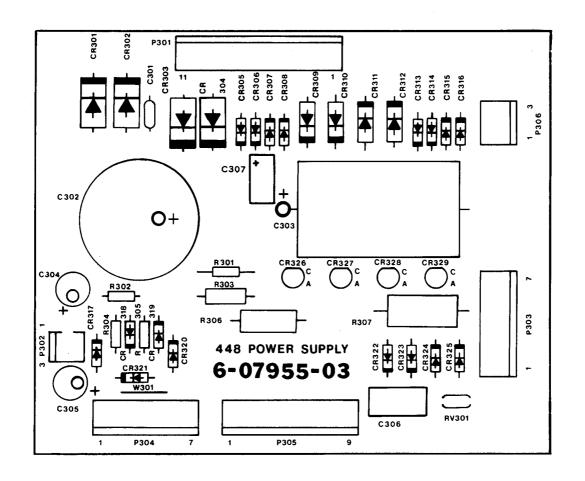


FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASM.
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		See Fig. 7 for Power Supply Asm. and other components.
	448-4556	Circuit Board Asm complete
C301 C302 C303 C304 C305 C306	7-00285-11 7-00236-01 7-00233-10 7-00238-09 7-00238-09 7-00240-09	CAPACITOR - MONOLITHIC CERAMIC (.1µF)  CAPACITOR - ELECTROLYTIC (6800µF)  CAPACITOR - ELECTROLYTIC (1500µF)  CAPACITOR - ELECTROLYTIC (15µF)  CAPACITOR - ELECTROLYTIC (15µF)  CAPACITOR - MYLAR (.01µF)
C307 CR301 CR302 CR303 CR304 CR305 CR306 CR307 CR308 CR309 CR310	7-00280-12 2-16283-05 2-16283-05 2-16283-05 2-16283-05 7-00350-05 7-00350-05 7-00350-05 2-16283-03 2-16283-03	CAPACITOR - ELECTROLYTIC (100uF)  DIODE - SILICON
CR311 CR312 CR313 CR314 CR315 CR316 CR317	2-16283-03 2-16283-03 7-00350-05 7-00350-05 	DIODE - SILICON DIODE - SILICON DIODE - SILICON NOT USED NOT USED DIODE - SILICON
CR318 CR319 CR320 CR321 CR322 CR323 CR324 CR325 CR326 CR327 CR328 CR329	7-00350-05 7-00350-05 7-00350-05 7-00350-05 7-00350-05 7-00350-05 7-00350-05 7-00350-05 7-00353-03 7-00353-03 7-00353-03	DIODE - SILICON DIODE - LIGHT EMITTING DIODE - LIGHT EMITTING DIODE - LIGHT EMITTING DIODE - LIGHT EMITTING
P301 P302 P303 P304 P305 P306	7-00750-11 7-00750-02 7-00750-07 7-00750-07 7-00750-09 7-00750-03	WAFER ASSEMBLY - POLARIZING
R301 R302 R303 R304 R305 R306 R307	7-9901-821 7-9902-391 7-9904-102 7-9901-682 	RESISTOR - CARBON (1/4W,5%) 820Ω RESISTOR - CARBON (1/4W,2%) 390Ω RESISTOR - CARBON (1/2W,5%) 1K RESISTOR - CARBON (1/4W,5%) 6.8K NOT USED RESISTOR - CARBON (1W,10%) 2.2K RESISTOR - METAL FILM (2W,10%) 12K
	7 00075 00	WARLSTON WETAL ONLDS

VARISTOR - METAL OXIDE

7-00375-03

RV3-1



#### FIGURE Main Controller Circuit Board Asm.

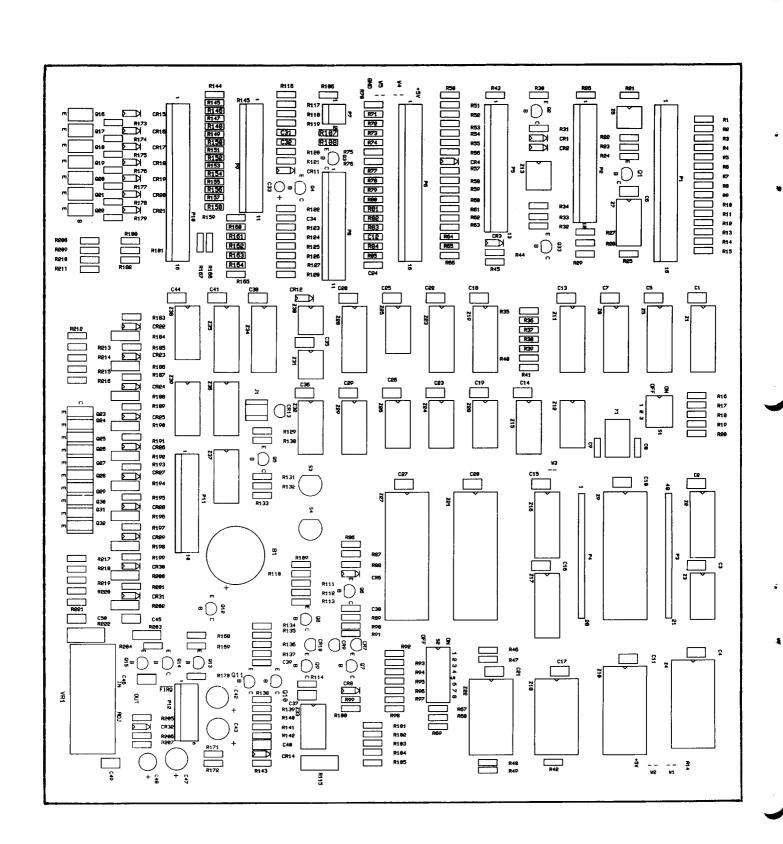


FIG. AND INDEX NO.	ROWE PART NO.		DESCRIP	PTION		QTY. PER ASM.
	493-1500 493-1507 493-811 493-1510	Main Controller Asm complete Circuit Board Asm Main Contro Base, Main Controller Cover, Main Controller	oller			1
BT1  C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C30 C31 C22 C33 C44 C25 C26 C27 C28 C30 C31 C32 C33 C34 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR1 CR1 CR1 CR1 CR1 CR1 CR1 CR2 CR1 CR1 CR2 CR3 CR1 CR1 CR1 CR1 CR2 CR3 CR1 CR1 CR1 CR2 CR3 CR1 CR1 CR1 CR2 CR3 CR1 CR1 CR2 CR3 CR1 CR1 CR2 CR3 CR1 CR1 CR1 CR2 CR3 CR1 CR1 CR2 CR3 CR1 CR2 CR3 CR1 CR1 CR2 CR3 CR1 CR1 CR2 CR3 CR1 CR2 CR3 CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR1 CR1 CR1 CR1 CR2 CR3 CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR1 CR1 CR1 CR2 CR3 CR1 CR2 CR2 CR2 CR2 CR23 CR24 CR25 CR26 CR27	3-08731-01 7-00285-11 7-00350-12	RATTERY - LITHIUM (160mA Hours)  CAPACITOR - MONOLITHIC CERAMIC (.luf) CAPACITOR - MONOLITHIC CERAMIC (.2pf) CAPACITOR - MONOLITHIC CERAMIC (.2pf) CAPACITOR - MONOLITHIC CERAMIC (.luf) CAPACITOR - ELECTROLYTIC (.luf) CAPACITOR - MONOLITHIC CERAMIC (.luf) CAPACITOR - MONOLITHIC CERAMIC (.luf) CAPACITOR - MONOLITHIC CERAMIC (.luf) CAPAC	CR28 CR29 CR30 CR31 CR31 P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 Q1	7-00350-12 7-00350-12 7-00350-12 7-00350-12 7-00350-12 7-00350-12 7-00350-15 7-00350-15 7-00750-16 7-00787-10 7-00787-10 7-00787-10 7-00750-11 7-00750-11 7-00750-11 7-00750-11 7-00750-16 7-00750-16 7-00300-08 7-00301-04 7-00301-04 7-00301-04 7-00301-04 7-00300-08 7-00301-04 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00301-04 7-00300-08 7-00300-09 7-00302-09 7-00302-09 7-00302-09 7-00302-09 7-00308-05	DIODE - SILICON WAFER - POLARIZING ASSEMBLY (12 CKT) WAFER - POLARIZING ASSEMBLY (13 CKT) NOT USED WAFER - POLARIZING ASSEMBLY (11 CKT) WAFER - POLARIZING ASSEMBLY (11 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (16 CKT) WAFER - POLARIZING ASSEMBLY (17 CKT) WAFER - POLARIZING ASSEMBLY (1	

FIG. AND INDEX NO.	ROWE PART NO.	DESCRIPTION	QTY. PER ASM.
R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R47 R48 R49 R50 R51 R52 R53 R54 R55 F56 R57 R58 R59 R60 R61 R62 R63 R64 R65 R66	7-99011-02 7-99011-02 7-99011-02 7-99011-02 7-99011-02 7-99011-02 7-99012-22 7-99012-21 7-99014-73	RESISTOR - CARBON (1/4W 5%) 1K RESISTOR - CARBON (1/4W 5%) 10K RESISTOR - CARBON (1/4W 5%) 10K RESISTOR - CARBON (1/4W 5%) 1K RESISTOR - CARBON (1/4W 5%) 3D RESISTOR - CARBON (1/4W 5%) 47K RESISTOR - CARBON (1/	
R68 R69 R70 R71 R72 R73 R74 R75 R76 R77 R78 R80 R81 R82 R83 R84 R85 R86 R87 R88 R89 R91 R92 R93 R94 R95 R97 R98 R91 R91 R92 R93 R94 R95 R97 R96 R97 R90 R91 R91 R91 R91 R91 R91 R91 R91 R91 R91	7-99011-03 7-99011-03 7-99011-03 7-99014-73 7-99011-03	RESISTOR - CARBON (1/4W 5%) 10K RISS 7-99011-03 RESISTOR - CARBON (1/4W 5%) 22K ROT USED NOT USED NOT USED NOT USED NOT USED RISS 7-99011-04 RISS 7-99011-07 RESISTOR - CARBON (1/4W 5%) 22K ROT USED RISS 7-99011-07 RISS 7-99011-07 RESISTOR - CARBON (1/4W 5%) 22K ROT USED RISS 7-99011-07 RESISTOR - CARBON (1/4W 5%) 27K ROT USED RISS 7-99014-72 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K ROT USED RISS 7-99014-73 RESISTOR - CARBON (1/4W 5%) 47K RESIS	

FIG. AND INDEX NO.	ROWE PART NO.		DESCRIPTION	ON		QTY. PER ASM.
R197 R198 R199 R200 R2001 R202 A203 R204 R205 R206 R207 R208 R209 R210 R211 R212 R213 R214 R215 R216 R217 R218 R219 R220 R221 R221 R221 R221 R221 R221 R221	7-99014-72 7-00102-10 7-99014-72 7-00102-10 7-99014-72 7-00102-10 7-99011-53 7-99011-53 7-99011-03 7-99011-03 7-99011-03 7-99011-02 7-9001-02	RESISTOR - CARBON (1/4W 5%) 4.7K RESISTOR - CARBON (1/2W 5%) 2.2K RESISTOR - CARBON (1/4W 5%) 4.7K RESISTOR - CARBON (1/4W 5%) 4.7K RESISTOR - CARBON (1/2W 5%) 2.2K RESISTOR - CARBON (1/4W 5%) 15K RESISTOR - CARBON (1/4W 5%) 120 RESISTOR - CARBON (1/4W 2%) 120 RESISTOR - CARBON (1/4W 5%) 10K RESISTOR - CARBON (1/4W 5%) 1K RESISTO	72 7- 23 7- 24 9- 25 7- 26 7- 27 7- 28 7- 29 7- 210 7- 211 7- 212 713 7- 214 715 216 7- 217 7- 218 7- 220 7- 221 7- 222 7- 223 7- 224 7- 225 7- 226 7- 227 7- 228 7- 229 7- 229 7- 230 7- 231 7- 229 7- 230 7- 231 7- 232 7- 233 7- 234 7- 233 7- 234 7- 235 7- 234 7- 235 7- 235 7- 237 7- 238 7- 239 7- 230 7- 231 7- 232 7- 233 7- 234 7- 235 7- 234 7- 235 7- 235 7- 235 7- 235 7- 235 7- 237 7- 238 7- 239 7- 230 7- 231 7- 232 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 233 7- 234 7- 235 7	99402-44 00371-24 99300-32 <b>37-401</b> 00371-11 00337-02 00363-05 99303-74 00339-01 99402-44 00337-06 00371-18 00366-02 99303-74 99303-74 99303-74 99303-74 99303-74 99303-74 99303-74 99303-74 99303-74 00371-22	IC - BUFFER - OCTAL HIGH SPEED CMOS (74HC244' IC - TRANCEIVER - OCTAL BUS (74LS245) IC - OR GATE - QUAD HIGH SPEED CMOS 2 INPUT IC - EPROM - 32K x 8 (27256) IC - D FLIP-FLOP - OCTAL (74LS374) IC - PHOTOCOUPLER - OPTO ISOLATOR IC - OPEN COLLECTOR BUFFER - HEX (74I7) IC - D FLIP-FLOP - OCTAL HIGH SPEED CMOS (74IC - MICROPROCESSOR - 8/16 BIT (6809) IC - NOT USED IC - MICROPROCESSOR - B/16 BIT (6809) IC - NOT USED IC - STATIC RAM - CMOS 2X X 8 (6116) IC - D FLIP-FLOP - OCTAL HIGH SPEED CMOS (7IC - NOR GATE - HIGH SPRED CMOS QUAD 2 INPU IC - VIA - TIMERS & 1/0 (6522) IC - DECODER/DBULTIPLEXER - 4 TO 16 LINE (IC - NOT USED IC - NAND GATE - TRIPLE HIGH SPEED CMOS 3 INPU IC - VIA - TIMERS & 1/0 (6522) IC - NOT USED	(74HCT32) 4HCT374) 4) 4HCT374) T (74HCT02) 74LS154) NPUT NE (74LS155)
W4 W5 Y1	2-51673-06	NOT USED NOT USED CRYSTAL - QUARTZ (4MHz)	Z37 7- Z38 7-	-00369-01 -00340-51 -00369-01	IC - DARLINGTON ARRAY IC - MULTIPLEXER/JEMULTIPLEXER - CMOS ANALO IC - DARLINGTON ARRAY	G (4051)

#### Harness List

#### MAIN HARNESSES

4900S 4900JR 493-1856 Same

**DESCRIPTION** 

Main Line Cord Assembly Main Door

493-1852 Same 493-1855 494-1806

Main Cabinet

#### **ASSEMBLY INTERNAL HARNESSES**

4900JR

Description

493-1857 Same

4900S

Main Power Switch Asm.

493-1873 Same

Gum & Mint Sold Out Switches (on sliding panel)

493-1874 Same

Gum & Mint Unit (Delivery Motors) 5 Motor Trav

490-1865 490-1866

10 Motor Tray

494-1804

4 Motor Tray

494-1805

8 Motor Tray

#### POINT TO POINT HARNESSES

4900S 4900JR 493-1851 Same 493-1869 Same

FROM -- TO

- Main Door Harness Main Controller -Power Supply CBA-2 -

493-1867 Same 493-1868 Same

-- Coin Mech. Socket Main Controller —

490-1872 Same

493-1870 Same

Power Supply — Main Controller Main Power Switch Asm. — Display Lamp CBA-2 (P6) — Door Harness

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