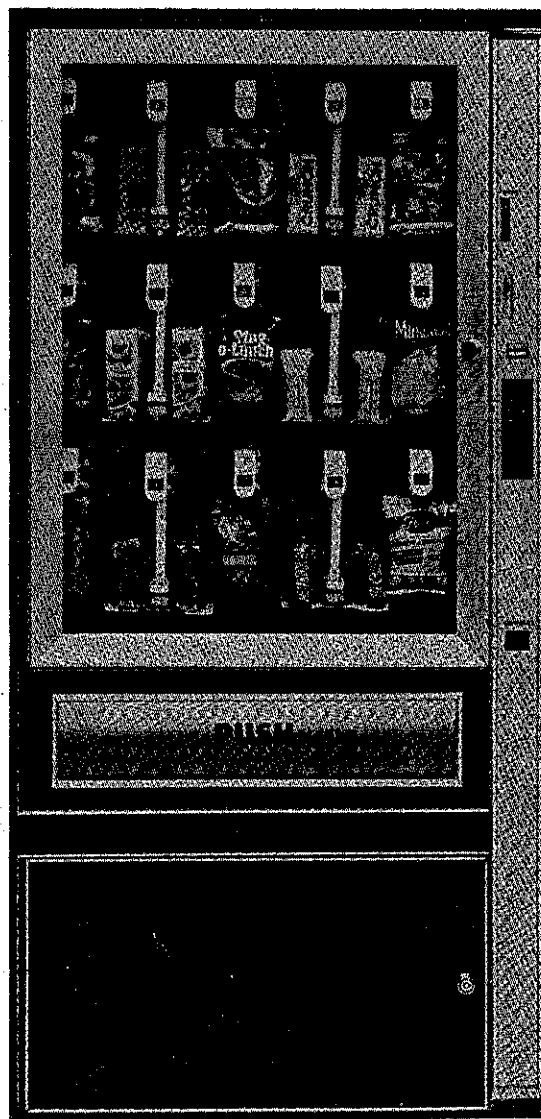


\$7.50

W-15 International



SERVICE MANUAL

SERIES 1600 1700

SERVICE MANUAL
MODEL W-15 INTERNATIONAL
AUTOMATIC RACK MERCHANDISER

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GENERAL

The W-15 Polyvend International has been developed specifically for the display rack merchandising market. Each of 15 independent dispensing units may be activated by push button selection after sufficient credit has been established in the coin mechanism.

Each dispenser is readily removable from the front for replacement or repair. Two types of module dispensers (hanging or tray) are supplied for optimum product selection.

Two models of the W-15 are available to accomodate either a 4 or 12 price coin mechanism that operates on a secondary voltage of 24 volts. To assure proper operation from 210 to 240 volts, a stepdown transformer with variable taps is utilized in order to match the actual line voltage that the machine is plugged into.

SPECIFICATIONS

OVERALL DIMENSIONS:

Height.....70"
Width.....33 3/4"
Depth.....28"
Front Clearance (Door).....30"

ELECTRICAL:

Primary.....210-240 VAC
Secondary.....24 VAC
Current (Primary).....2 AMP

WEIGHT:

Shipping.....483 pounds

CAPACITY:

6 Confectionery (Candy)
Modules.....108 pieces
9 Snack (Chip) Modules...90 pieces
Total.....198 pieces

NOTE: Polyvend, Inc. is not responsible for faulty or overloaded circuits where Polyvend machines are installed. The exact load imposed by each machine is stated in the related service manual. The sum of all such machines in any particular location will determine the total line load.

NOTE: THIS MANUAL APPLIES TO W-15 MACHINES AFTER SERIAL NUMBER 6030



INSTALLATION

GENERAL

- Remove outside shipping carton.
- Locate small envelope in delivery compartment inside "Push" door and remove keys.
- Using proper key, open glass service door and remove internal packing.
- Open sliding door on right inside of display area and locate mounting screws for coin mechanism.
- Position coin mechanism on mounting screws. BE SURE TO USE PROPER MECHANISM FOR MACHINE TYPE (4 or 12 price).
- If 12 price; mount matrix assembly of coin equipment in lower storage area on hinged swing-out panel (FIGURE 1). A connecting harness is required to reach up to the coin mechanism.
- Set vend prices of coin equipment to desired price levels in accordance with instructions for the particular type used.
- Plug numbered motor leads to one of the terminal strips that has the desired price setting for that selection. See FIGURE 2 for 4-price type or FIGURE 3 for 12-price.
- Also in bottom storage compartment, locate transformer mounted up on right back wall. Measure supply voltage at location and connect the black wire of the power cord to the appropriate position on the transformer (210, 220, 230, or 240 VAC).
- Adjust leg equalizer on the bottom of the machine until the product loading door can be opened and closed freely without binding or rubbing on the cabinet opening. All four equalizers must contact the floor.
- Connect to power and leave power on for all tests.
- Check alignment and engagement of rack modules.
- Check retaining screws on module arms.
- Check fit of light tubes, starters, and fuses.
- Check operation of door on delivery compartment.



- Check operation of the service door and lock.
- Put 6 of each coin through mechanism. Catch in escrow. Repeat twice.
- Set each price to a different setting. Put in exact coins for each setting and vend. Check operation.
- Operate each module (6) times.
- Ensure that all rack module dispensing chains are running free inside their guides.
- Ensure that all confectionery dispensing cups are located firmly on conveyor chain links in the module.
- If modules seem sluggish, (i.e. slow or reluctant to turn), re-check line voltage for voltage drop and if necessary reconnect to next lower tap on transformer.
- Load the machine with product. (SEE "PRODUCT LOADING").
- Check that all rack module arms "click" home.
- Check that number indicator tab assembly is in correct position on each module end to correspond to selector switch.

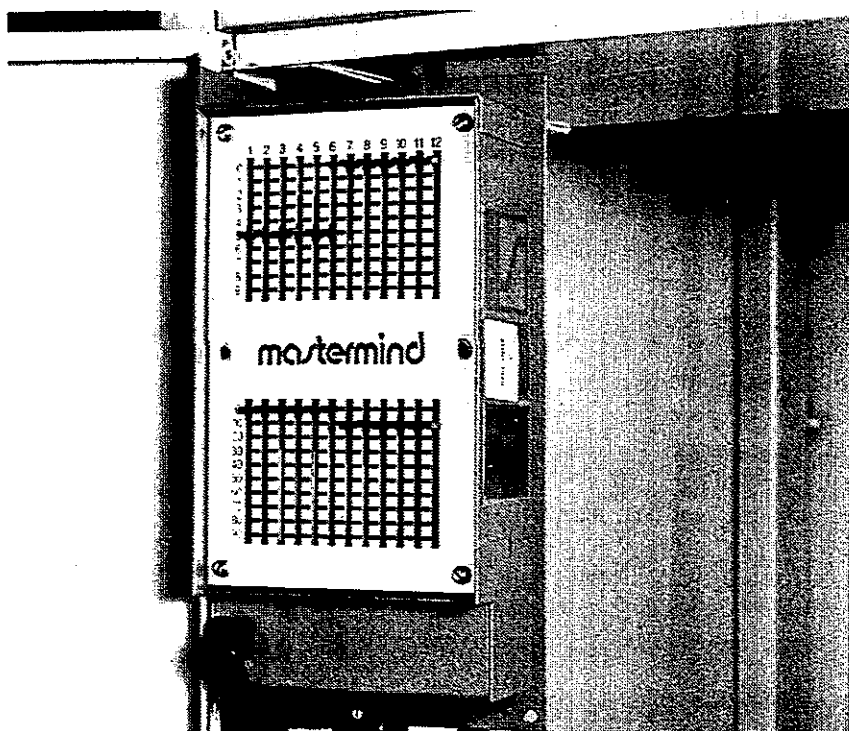
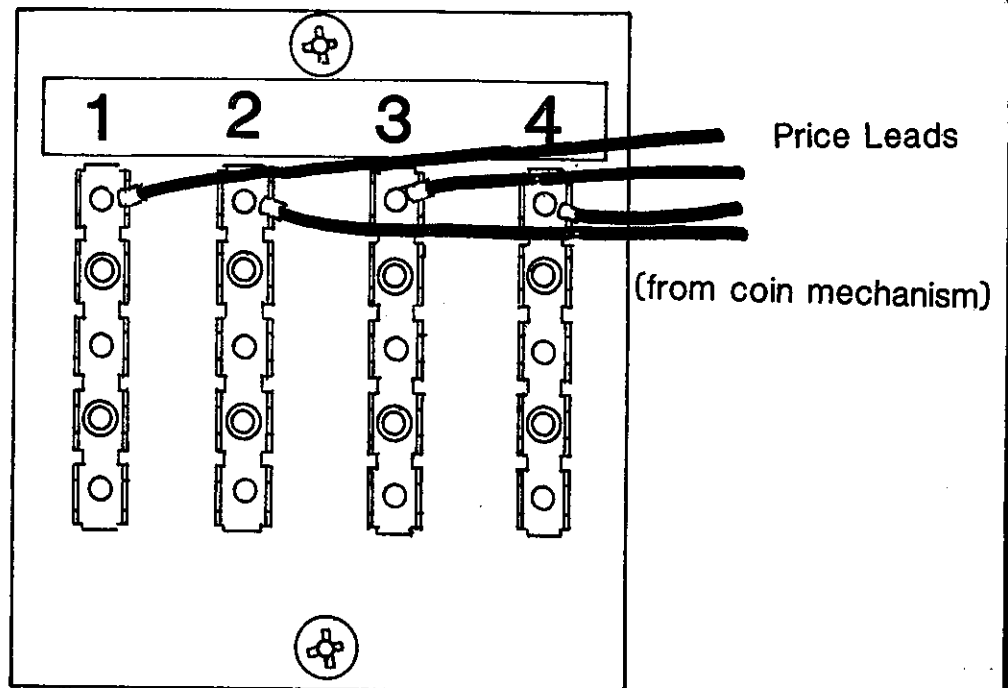


FIGURE 1

FOUR PRICE
TERMINAL BOARD



Motor Leads

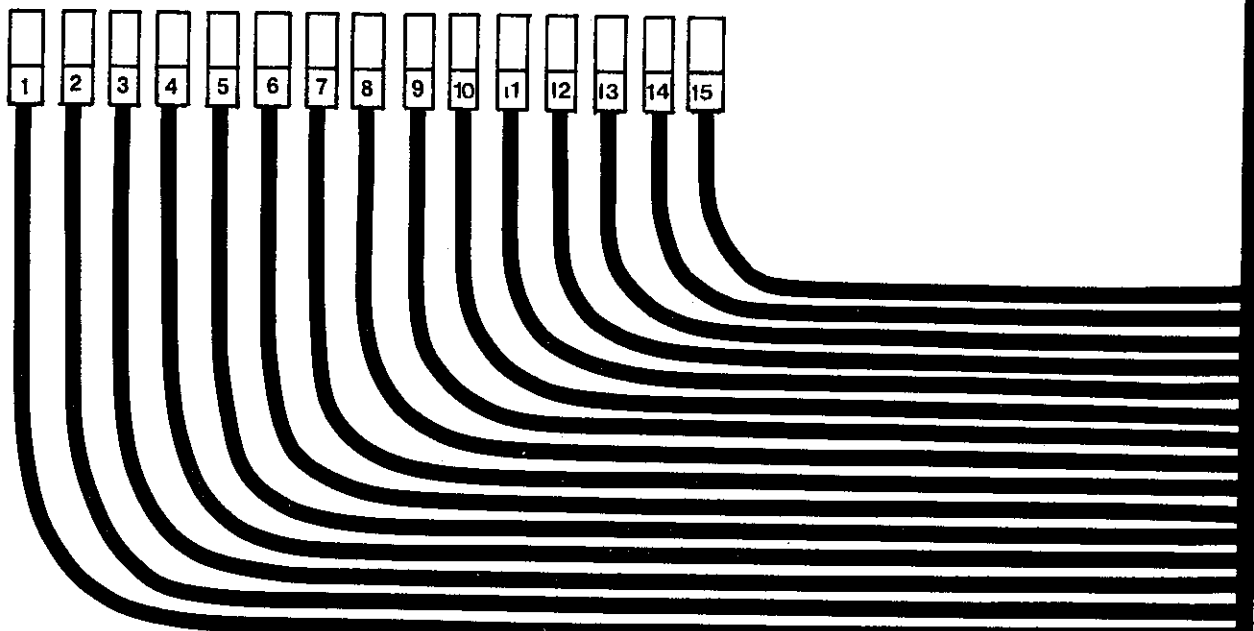


FIGURE 2



TWELVE PRICE TERMINAL BLOCK

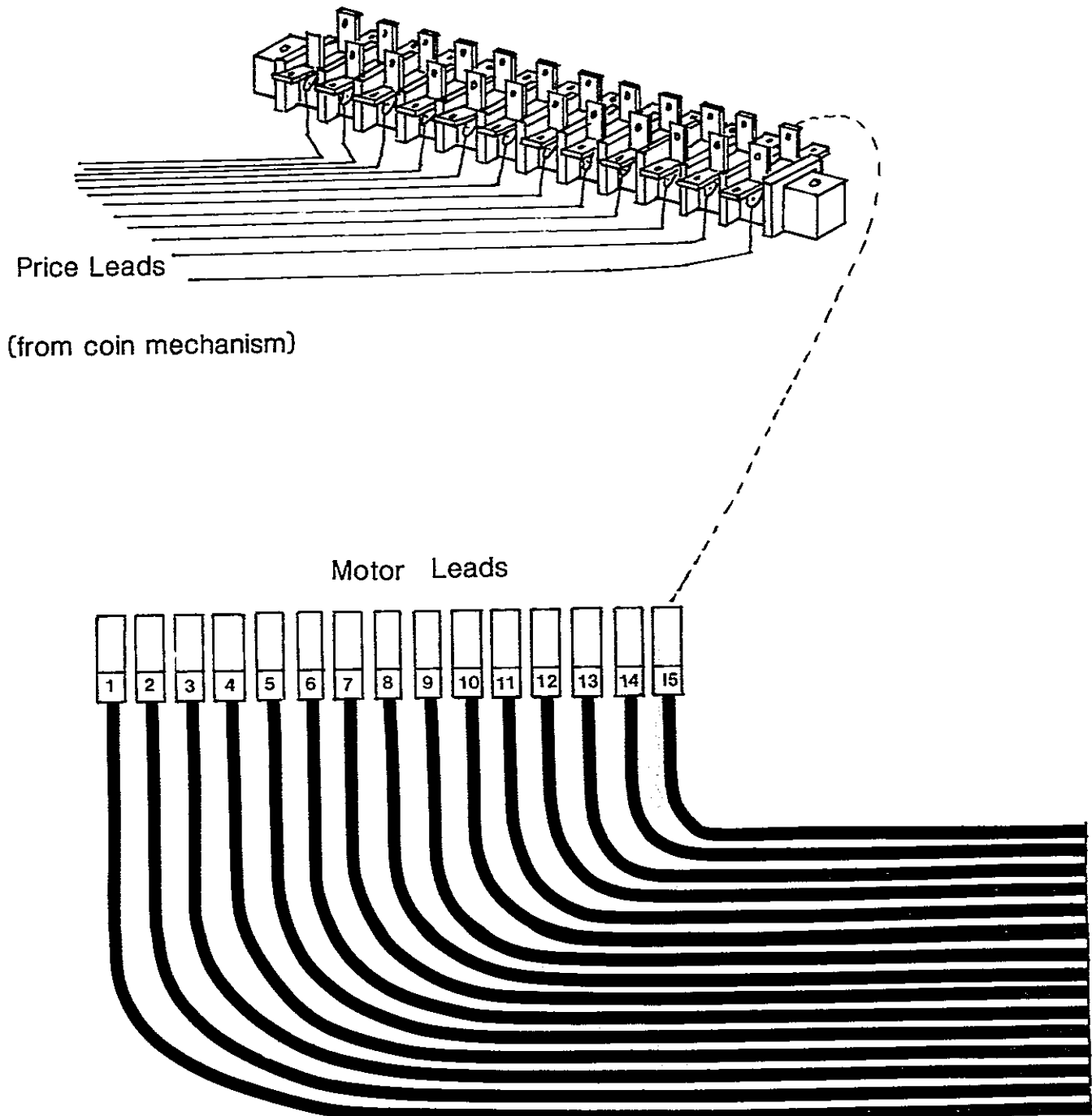


FIGURE 3

PRODUCT LOADING

All product loading of the W-15 is accomplished from the front. Using one of the keys provided, open the door to the product loading compartment.

To load, release the latch on each dispenser as shown in FIGURE 4 and pull forward until the slide hits the stop.

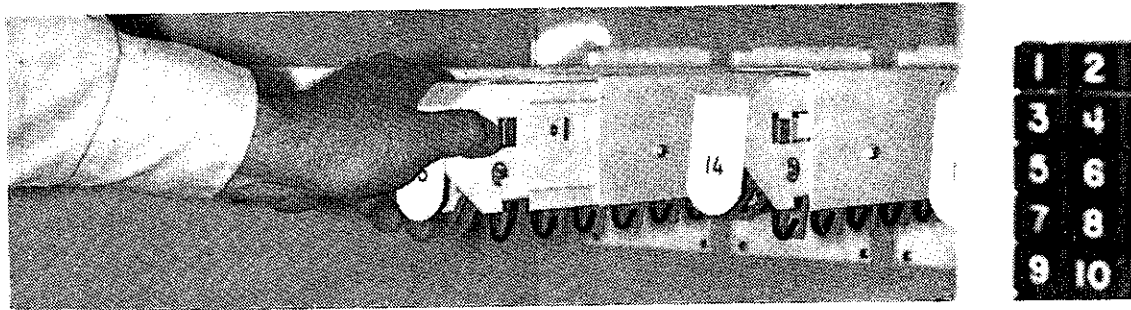


FIGURE 4

There are three versions of the dispensers.

First to be considered is the wedge type packet hanging dispenser.

WARNING: DO NOT ATTEMPT TO PULL PRODUCT FROM THE BAG DISPENSER AT ANY TIME. SUCH ACTION WILL EITHER JAM THE MECHANISM OR PULL THE WEDGE ASSEMBLIES APART.

Each bag is inserted into a wedge assembly as shown in FIGURE 5. This can be done many ways; however, there is a best way which consists of inserting the bag into the wedge at an angle and sliding the bag until centered in the wedge. Do not attempt to load last position on each chain. Release product by pressing lever up behind bag (FIGURE 5B).

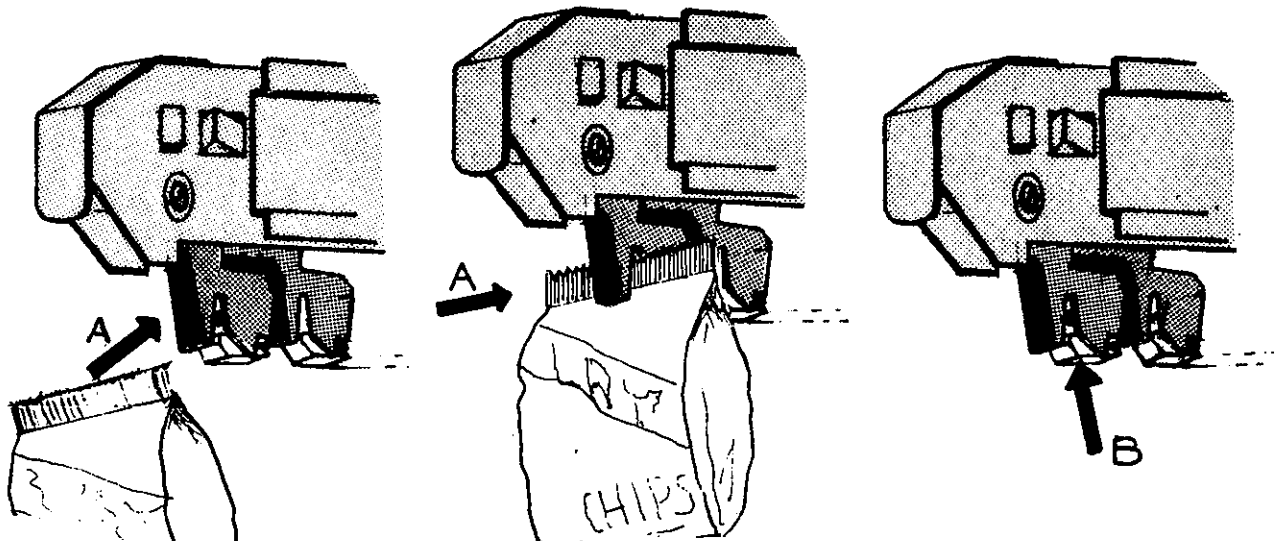


FIGURE 5
6



A second type hanging dispenser is the hook chain module. It utilizes the same type module slide but is designed to hold products with a hole pierced in the packet. A hole tab can be purchased that has adhesive on it that sticks to the packet. Using this hole tab makes it possible to easily hang snacks and many other products on the hook chain.

To load the product on the hook dispenser, grasp the product with both hands on the top edges. Push the top of the product wrapper between the retainer and the hook, which will allow the hole in the bag to slide over the hook. (FIGURE 6A)

When a selection is made, the chain advances on the arm. As the chain turns around the front sprocket, the hook swings up and away from the retainer and the bag slides off the hook and falls into the delivery compartment. (FIGURE 6B)

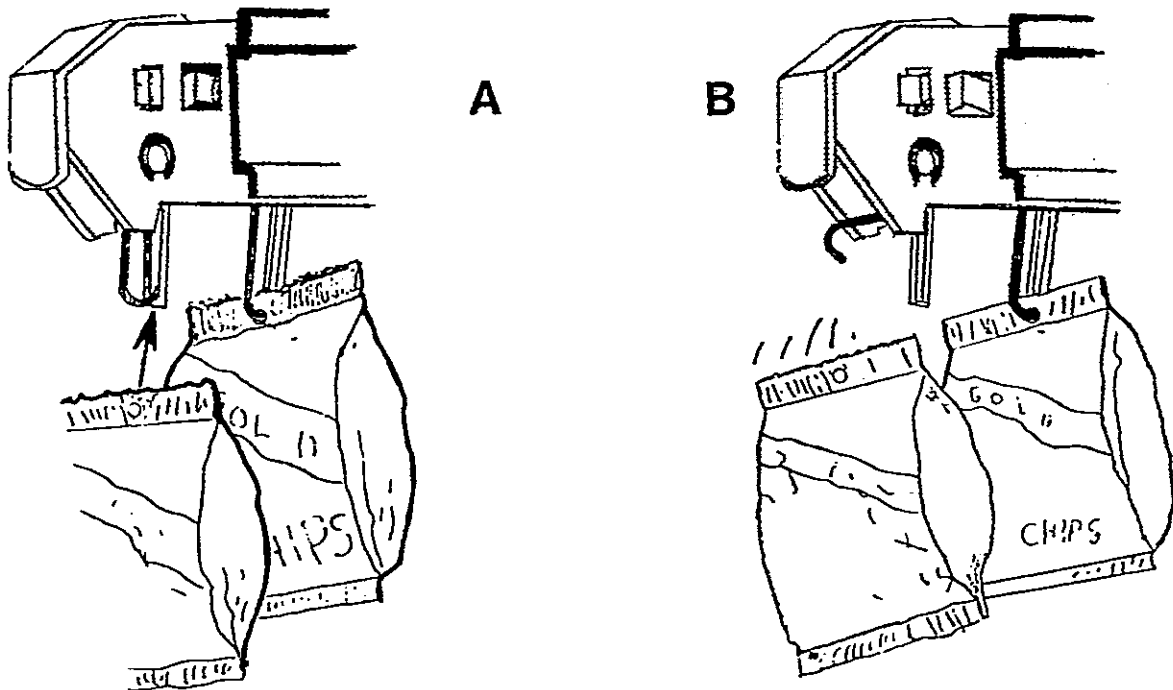


FIGURE 6



The third type dispenser to be considered is the candy (confectionery) module. Load the candy module by dropping the products into the individual dispensing cups. Since the dispensing cups rotate left to right, the product on the left should face forward, and the product on the right should face backward to assure proper fronting (SEE FIGURE 7).

With all dispensers, slide the loaded unit back into the machine until the latch snaps soundly into place.

FIGURE 7





STORAGE COMPARTMENT

The storage compartment along the bottom of the machine (FIGURE 8) is opened with the same key that opens the product loading door. It provides a versatile locked area that can be utilized for convenient storage.

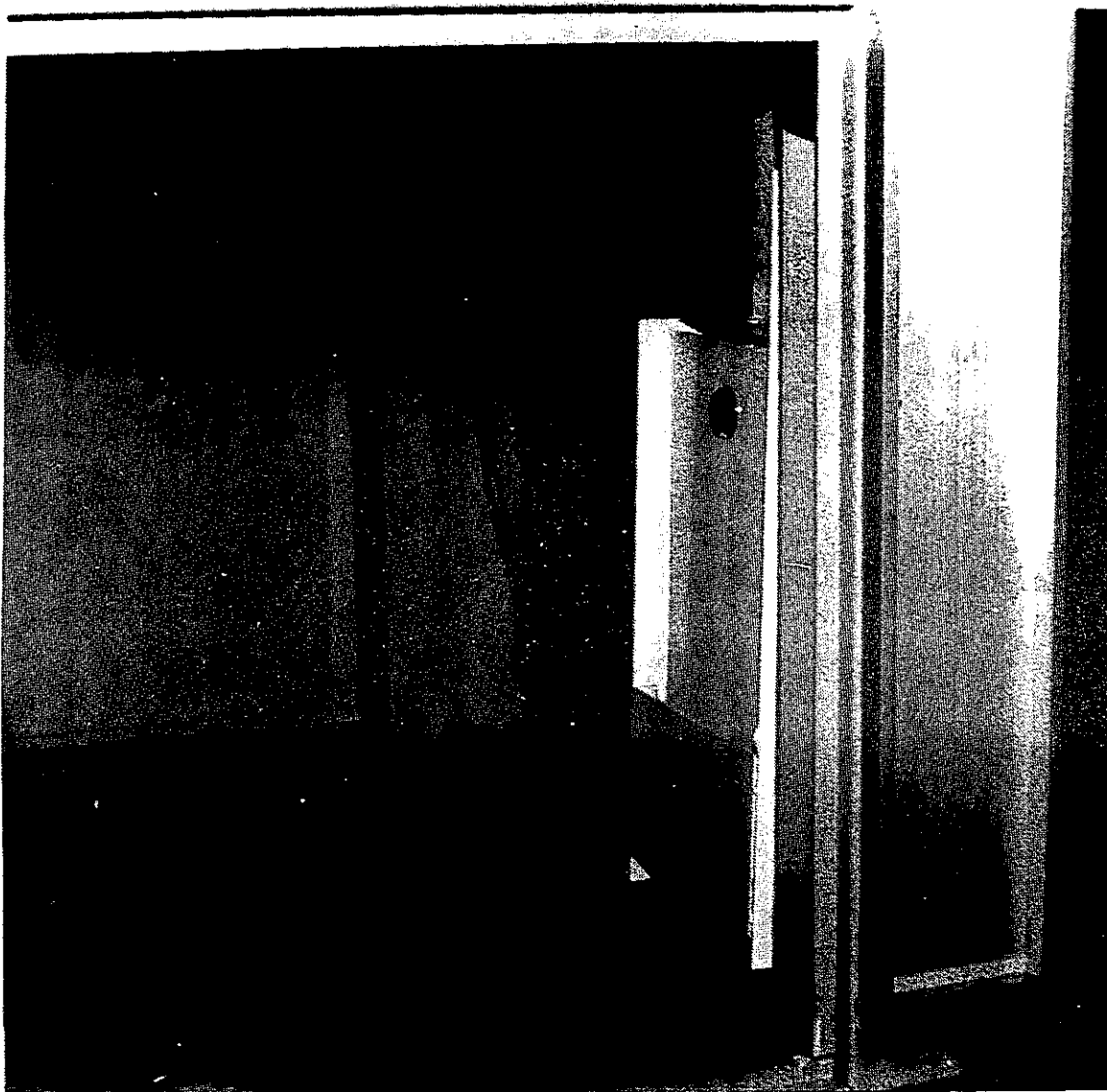


FIGURE 8

COIN COLLECTION

The coin bank is located in the right front corner of the storage compartment (FIGURE 8). To open, use key supplied that is numbered different from the access doors. Insert key, press in and rotate $\frac{1}{4}$ turn counterclockwise to unlock bank. Tilt out at top and lift out. Replace by reversing the above procedure.

DISPENSERS

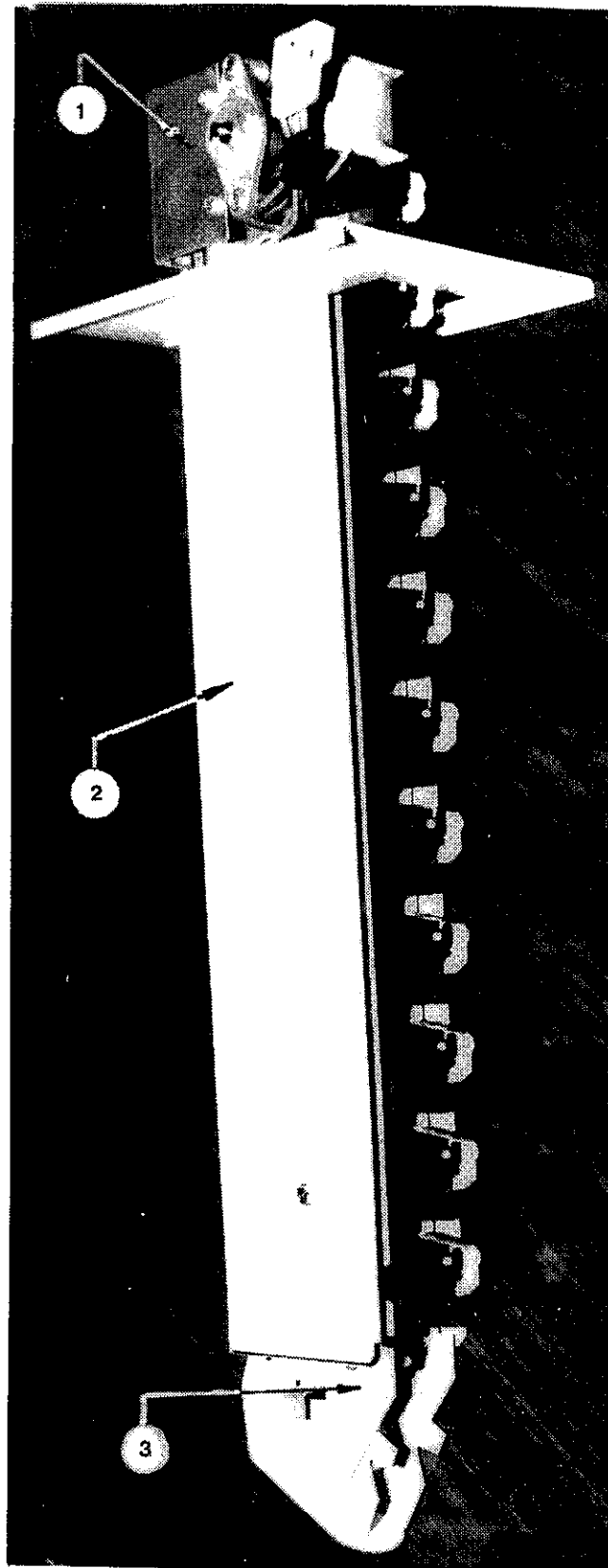
Polyvend
CONWAY, ARKANSAS



WEDGE MODULE

FIGURE 9 illustrates the wedge chain dispenser used in the W-15. It consists of:

- (1) Motor Assembly
- (2) Module Arm
- (3) Rack Module & Slide Assembly



When a product selection is made, an electric signal from the selector switch starts the motor, and a carry over circuit through the make-then-break switches of the motor completes the 180° rotation advancing the dispensing chain one step. As the leading chain segment moves around the front sprocket, the hook of the following segment acts as a lever to activate the white slide and lifter of the front segment, forcing the spring loaded cylinders upward (SEE FIG. 5B). This upward movement releases the wedged grip maintained on the merchandise bag, and the bag drops to the delivery compartment, completing the vend.

In a previous section on loading, a warning was given about pulling products out of the dispenser. If a brute force pull in a downward direction is used, it will cause the metal cylinders to seat against the plastic dispenser chain segment. The product cannot be released and the module may hang in cycle which causes the machine to be inoperative. A good indication of someone pulling on the bags is chain parts found laying loose in the machine. Even if less force is used, tolerances will be changed, causing eventual failure of the dispensing chain.

The correct way to remove product is actually easier, and consists of pushing up on the white-colored release lever immediately behind the product. This causes the product to fall into your hand without harming the dispenser.

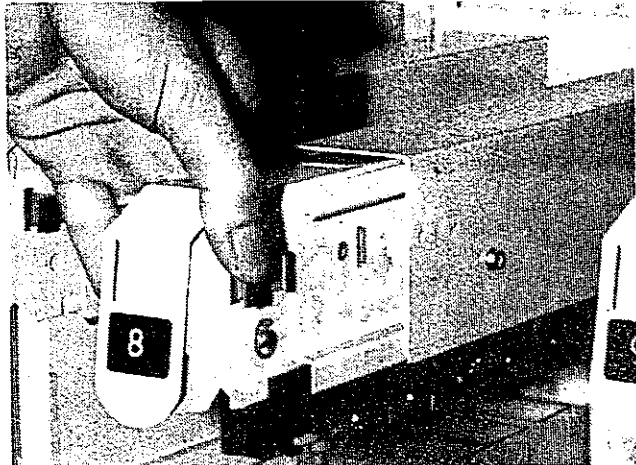
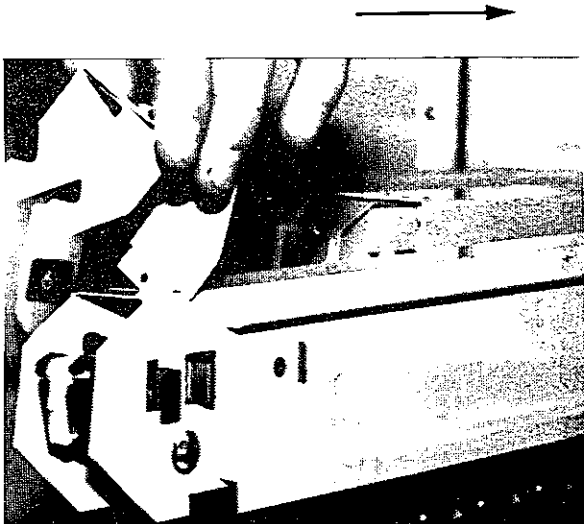
There is a particular type of bag made of glassine material that cannot be vended with the Polyvend wedge chain. This is a coated material that covers the metal cylinders with wax causing the bags to fall out freely.

FIGURE 9
(WA THRU WN)



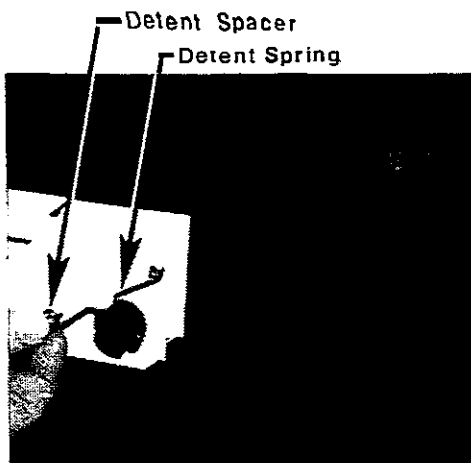
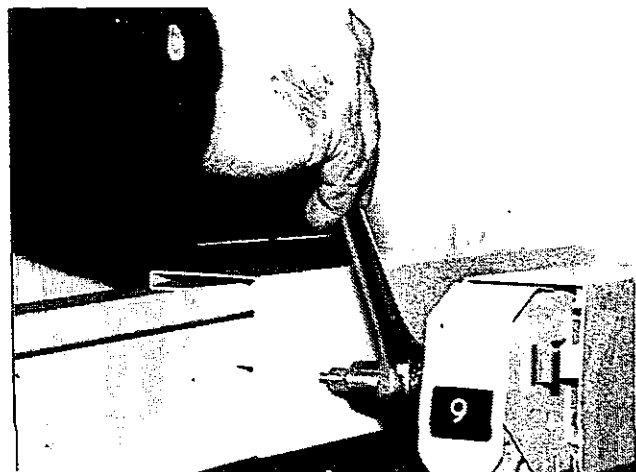
Occasionally, dispensing chains must be replaced or repaired. These chains are timed on installation and must be removed with care. Figures show the sequence of operations to accomplish this task. (WA thru WN)

- Release the latch on the dispenser and pull slide out to its stop. (FIGURE W A)

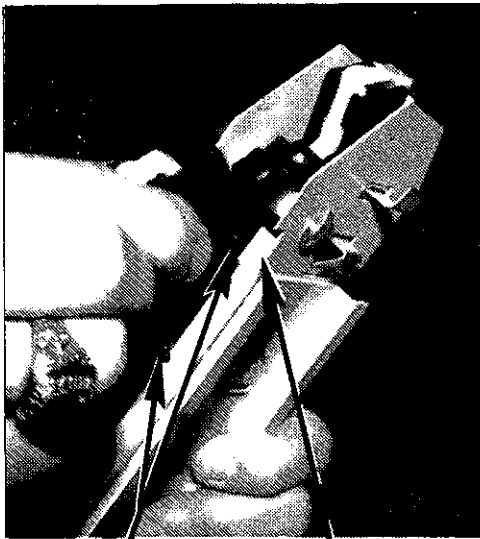


Remove the dispenser number and price cover. (FIGURE WB)

- Remove the screw from the side of the dispenser (FIGURE WC) which serves as the stop and pull slide from the machine.



- Release the detent spring by pushing the flat end down and pulling it out from under the detent spacer. (FIG. WD)

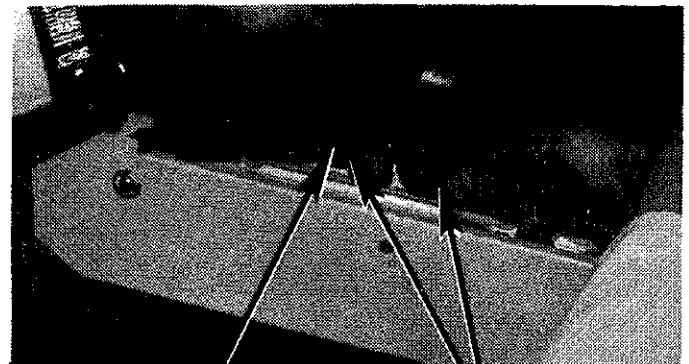


Support Pin Chain Support

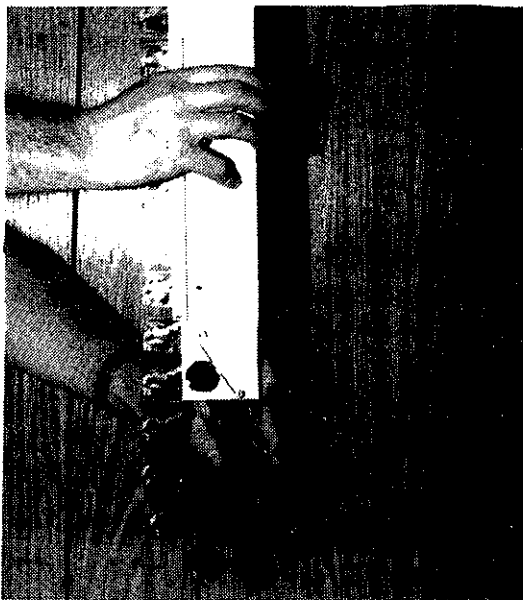
- Point front end of slide up and grasp the chain with thumb and fingers. Pull the chain support pin up and over the chain support slide while rotating the chain backward to normal rotation. Repeat until eight (8) pins are on top of the slide, which will allow enough slack to unhook the chain. (FIG. WE)



- Unhook chain by grasping one link near the support pin and the next link near the snap connector - then gently twist the chain until it snaps loose. (FIG. WF)

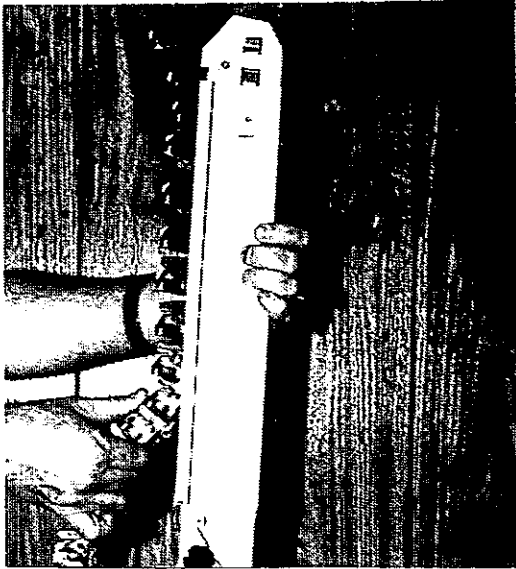


Support Pin Snap Connector



- Hold slide vertical with the front end up, and the chain will fall free of the inner portion of the slide (FIGURE WG)





Still holding slide vertical, lift bottom of chain outward and away from the slide. Push upward. The chain should easily slide free. (FIGURE WH)

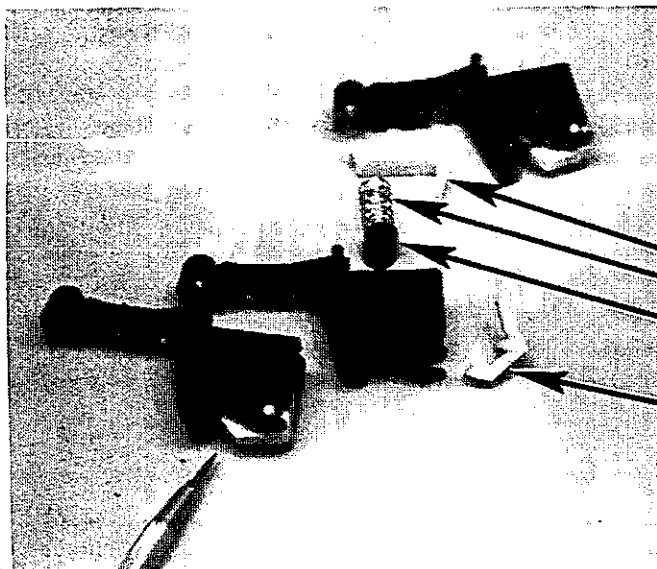


WEDGE ASSEMBLY REPAIR (FIGURE WI)

To repair the assembly and replace damaged components, remove the chain and snap out the damaged link.

This link is made up of the basic chain housing segment (Black), a cylinder lifter (White), a slide (White), two cylindrical wedge components and a compression spring. (FIGURE WI)

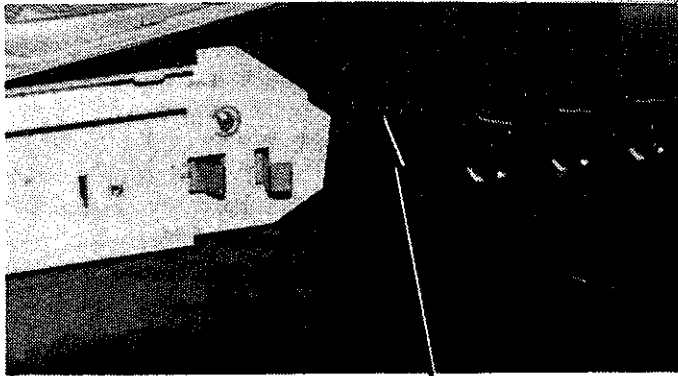
To disassemble, hold the link between both hands and push the cylinder lifter stub shafts outward with both thumb nails. It will pop out (retain with fingers) and may be removed. Next, the slide may be removed. Take care the compression spring isn't lost as the slide is removed. Now, the spring will fall free and the cylindrical wedge components will follow when the link is inverted. When reassembling the lifter, be sure the "flat" edge is against the cylindrical wedge and not against the slide.



All that remains is to reassemble using replacement parts as necessary. When the link has been repaired, snap it back on the chain.

SLIDE
SPRING
CYLINDRICAL WEDGE
LIFTER

FIGURE WI

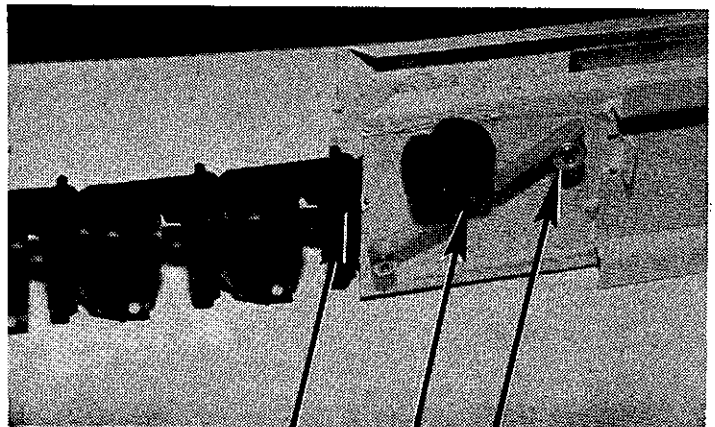


Snap Connector

- To replace chain, lay dispenser on it's top and insert the chain end through the front of the module. (The snap connector end must be inserted from the front as shown or chain rotation will be wrong). Continue pushing the chain through the dispenser until equal lengths of chain are sticking out each end.(FIG. WJ)



To time the chain, re-engage the detent spring by turning the sprocket to the detent position and pushing the detent spring end under the detent spacer. Align a support pin with the back edge of the module. (During the next step, be careful NOT to move the chain forward or backward as this would misalign the support pin and therefore chain timing would be wrong). (FIG WK)



Support Pin

Detent Spacer
Sprocket Detent

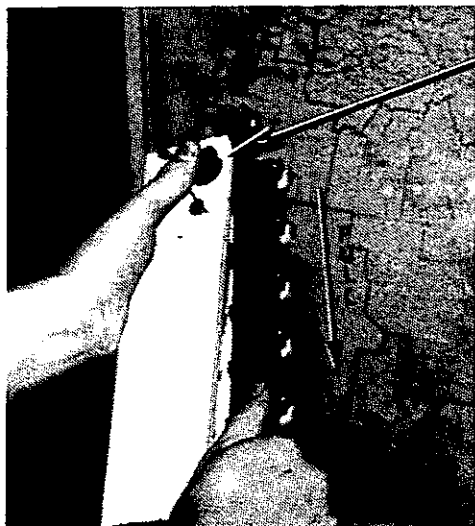


Snap Connector

Slide

- Grasp both ends of the chain and pull it over the bottom of the module. Push the white color slide out of the way and push the snap connector onto the support pin. (FIG. WL)



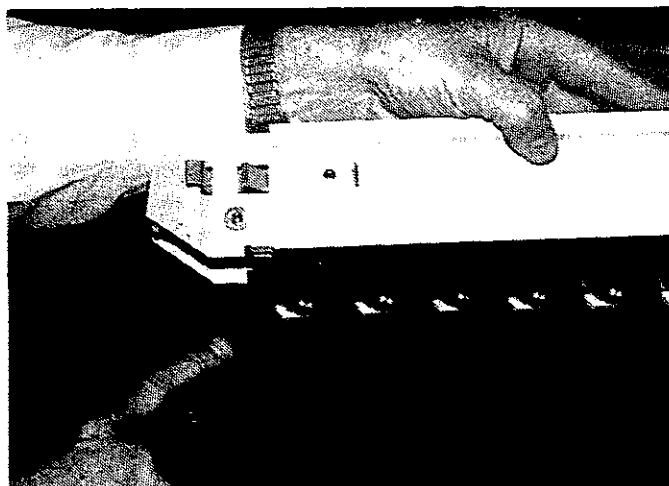


Detent
Sprocket

- To place the chain guide pins in the chain support slide, grasp the chain with one hand and rotate it in the direction of normal rotation, while holding the detent sprocket in with one thumb. (FIGURE WM)



- Continue pulling the chain until 3 complete revolutions have been made. With the detent spring in the detent position, the leading chain segment will be in the position shown if the timing is correct. (FIGURE WN)



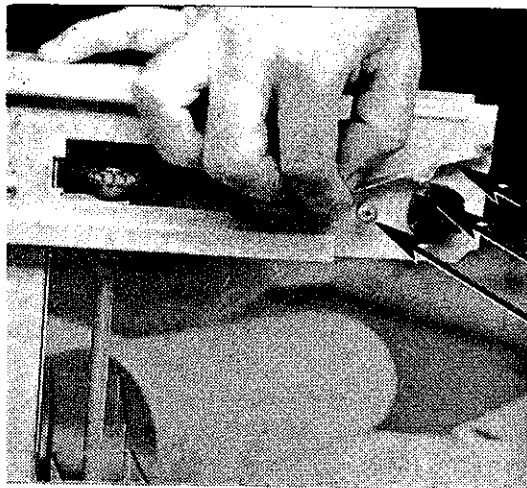


CANDY MODULE

FIGURE (CA THRU CP)

The candy dispenser slide assembly is removed from the machine in the same way that the chain slide assembly is removed. Just withdraw the stop screw and slide the assembly out of the machine.

CUP AND PLASTIC CHAIN REMOVAL (CA thru CP)



Detent Spring

Sprocket Detent

Detent Spacer

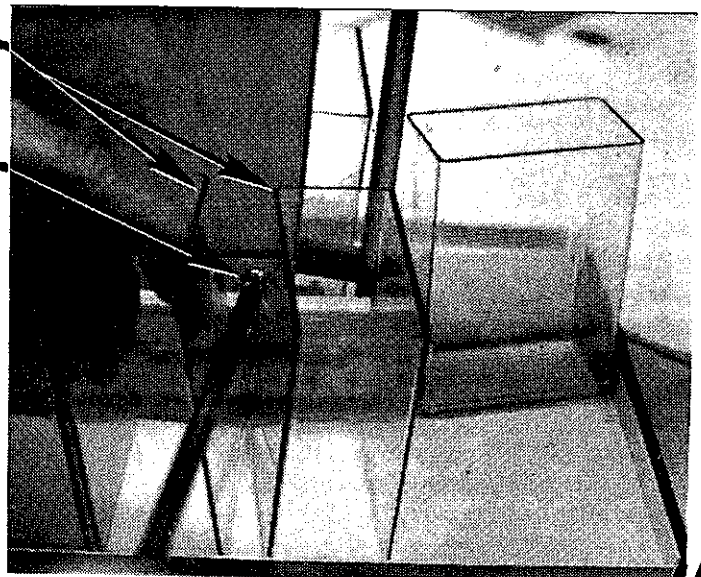
Release the detent spring by pushing the flat end away from the detent spacer and pulling the spring out from under the spacer. (FIGURE CA)

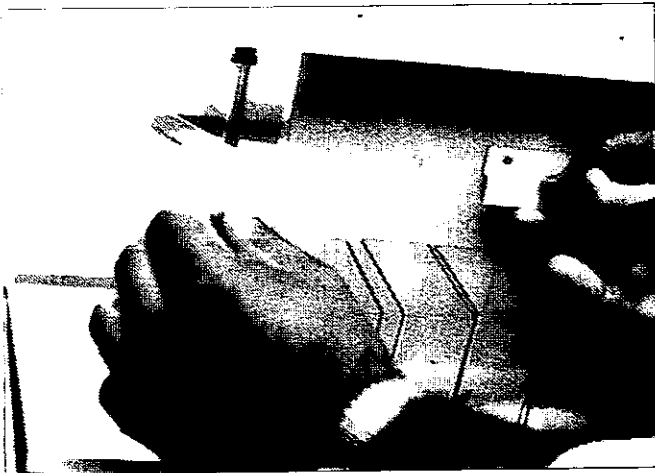


The candy cup chain guide must be removed in order to remove the cups or the plastic chain. To remove the guide, remove the six(6) screws that mount the chain guide to the divider. For easy access to each screw, rotate the cups until the screw can be reached by pushing the cups apart. After all screws have been removed, lift the chain guide up to expose the chain links. (FIGURE CB)

Cups

Screw

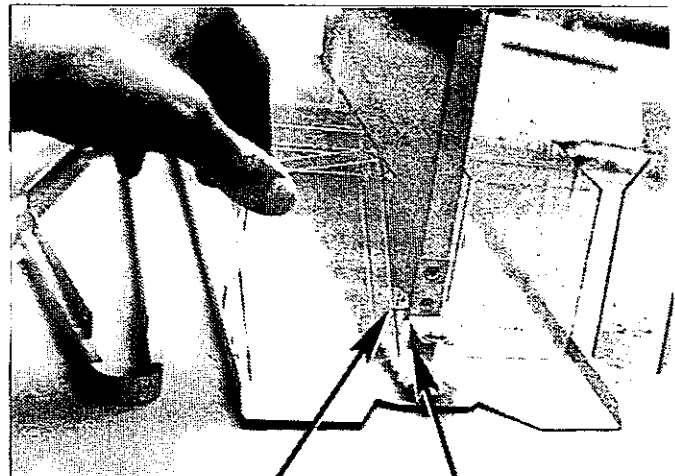




To remove the guide, gently pull the back half away from the divider enough to "unwrap" it from the divider. DO NOT bend the guide anymore than is necessary to remove it. Excessive bending can cause the guide to lose its round shape on each end and this will cause chain binding when it is re-installed. (FIGURE CC)

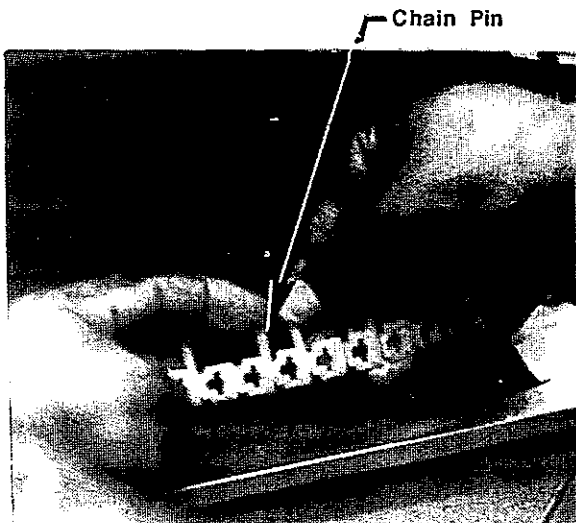


Pull upward on the cups and they will snap loose. After all cups are removed, the chain can be removed by twisting the chain until it unsnaps. (FIGURE CD)



Cup Connector

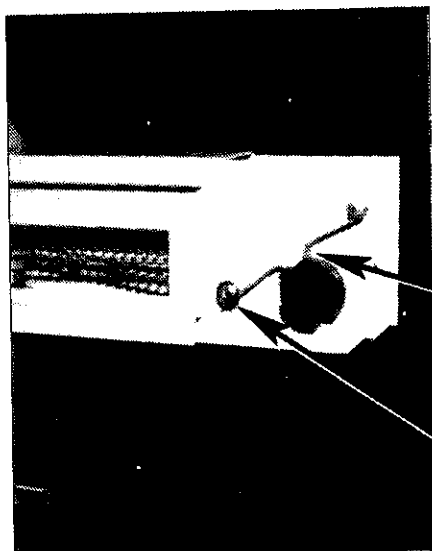
Chain Pin



Chain Pin

After all cups are removed, the chain can be removed by placing a finger behind the top pin on one link while pushing the pin on another link with a thumb. The chain will snap apart. All damaged links can be replaced with new ones. (FIGURE CE)





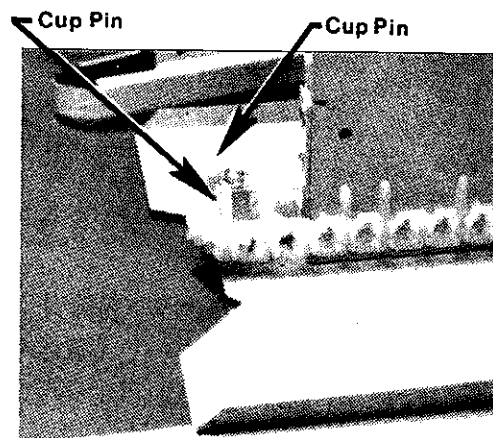
Detent Engaged

Detent Spacer

After repairing the chain, reassemble all components, making sure there are 36 cup retainer links and 18 plain links. Then, to reassemble, turn the sprocket to the detent position and reengage the detent spring by pushing the spring end around and under the detent spacer. (FIG. CF)



Place the chain around the front sprocket and align a pair of cup pins opposite each other, as shown. (This will assure proper timing of the cups when the chain is snapped together.) Without moving the front sprocket, pull the chain tight and wrap it around the back sprocket. (FIG. CG)



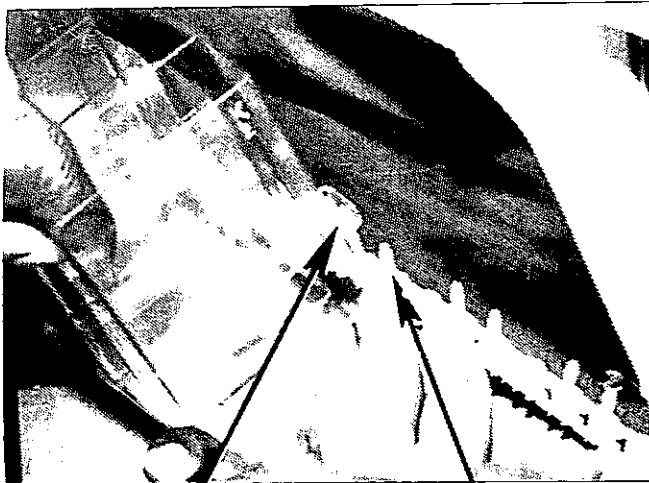
Cup Pin

Cup Pin



With the detent spring engaged, and the cup pins aligned opposite each other, snap the chain together. (FIG. CH)





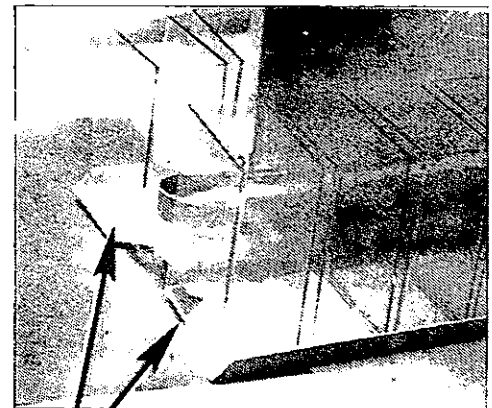
— Cup Mounting Tab

— Chain Pin

To replace dispensing cups, snap the cups back on the chain pins. For easier installation, place two fingers under the chain while pushing the cups on with the other hand. Be sure the cups are pushed all the way down on the chain. (FIGURE CJ)



After all cups are replaced, check for proper timing. (The module is timed correctly when the detent spring is engaged and the front cups are parallel to each other. (FIG. CK)



— Correct Timing

Re-install the chain guide, being careful not to bend it anymore than is necessary. Rotate the detent sprocket and check for chain binding inside the chain guide. (SEE FIGURE CB)

Re-install the candy module in the machine and tighten the stop screw on the side of the module arm. (SEE FIGURE CA)



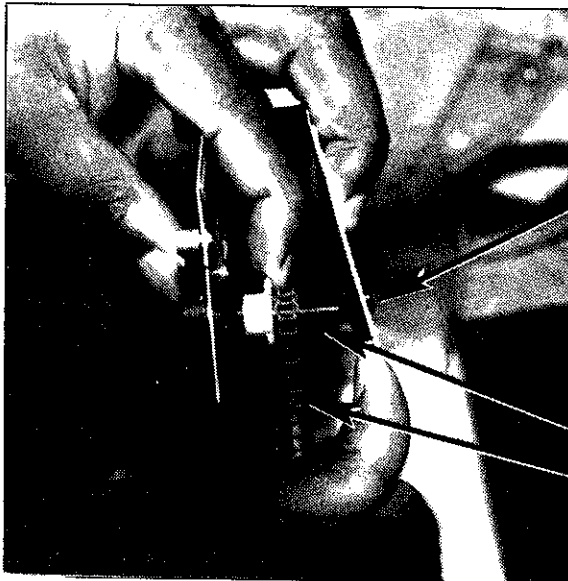
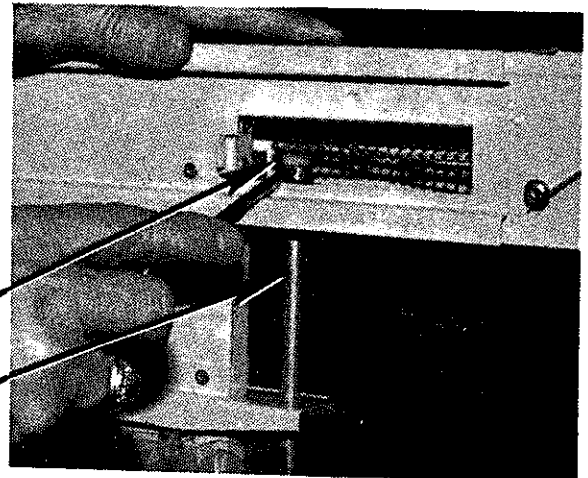
LADDER CHAIN REMOVAL AND REPLACEMENT

To replace the metal ladder chain, pry the drive sprocket off the vertical shaft. The chain will hang free from the back drive sprocket. (FIGURE CL)



Drive Sprocket

Vertical Shaft

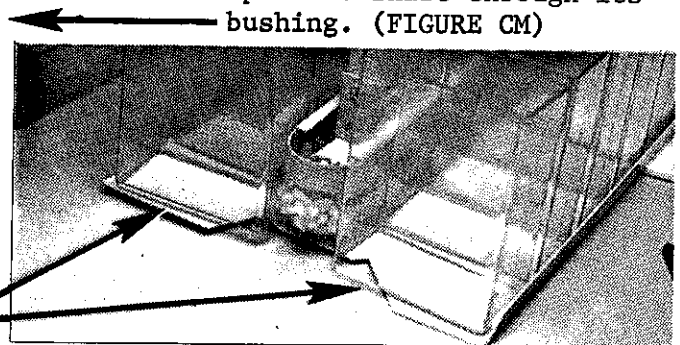


Bushing

Shaft

Chain

To remove the chain from the sprocket shaft, pull the back sides of the slide module apart, allowing the sprocket shaft to slide out of the bushing. The chain will drop off the shaft. Place the new chain on the back drive sprocket and push the sprocket shaft through its bushing. (FIGURE CM)



Cups

To time the module, position the cups so the two front cups are parallel, and be sure the detent spring is engaged. (FIGURE CN)



Flat side

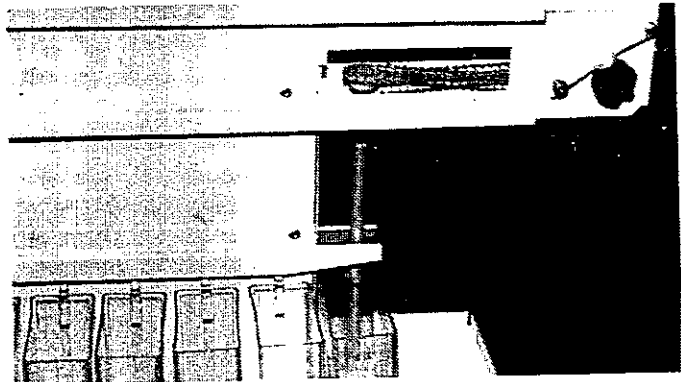


To re-install the drive sprocket on the vertical shaft, hold the sprocket so the flat side of the sprocket shaft hole is facing the flat side of the shaft. Pull the chain through the slide access hole and "twist" the chain $\frac{1}{4}$ turn and place it on the sprocket. (The chain must be "twisted" as shown or the cups will rotate backward. (FIG. CO)





with the chain around the sprocket, place the sprocket on the vertical shaft. Be sure the sprocket is pushed down all the way on the shaft. (FIGURE CP) →



Reinstall the module in the machine, tighten the stop screw, and cycle the machine 3 times. If the timing is not correct or if the module operates backward, repeat steps CL, CN, CO and CP.

NOTES

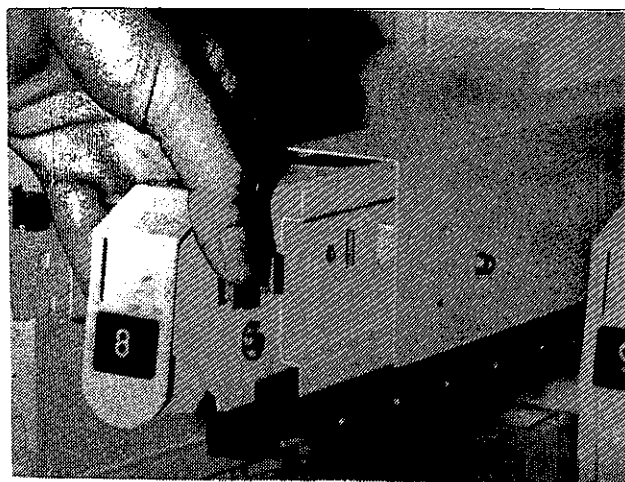
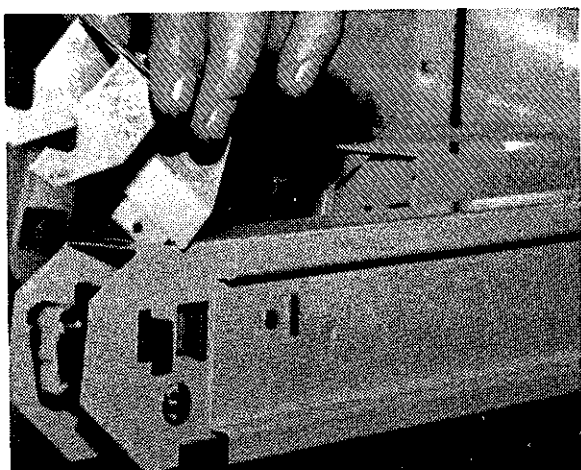


HOOK DISPENSERS

The hook dispenser is ideal for products that have a hole pierced in the packet. A hole tab can be purchased that has adhesive on it that sticks to the packet. Using this hole tab makes it possible to easily hang snacks and many other products on the hook chain.

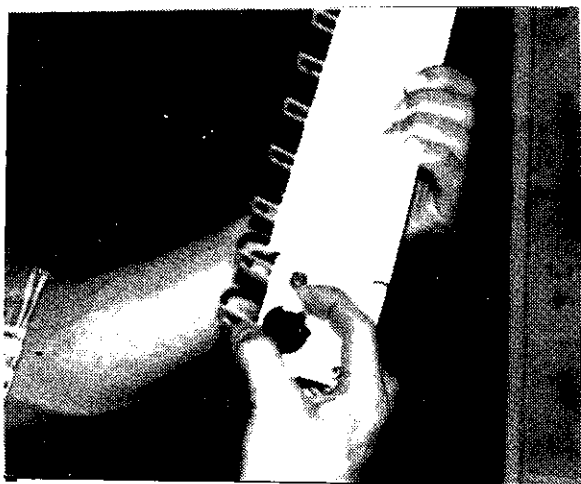
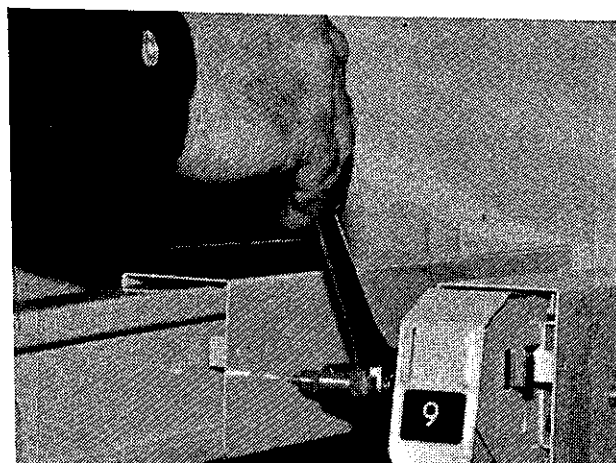
If it becomes necessary to replace or repair these chains, follow the sequence of operations in FIGURE (HA THRU HL)

Release the latch on the dispenser and pull slide out to its stop (FIGURE HA). →

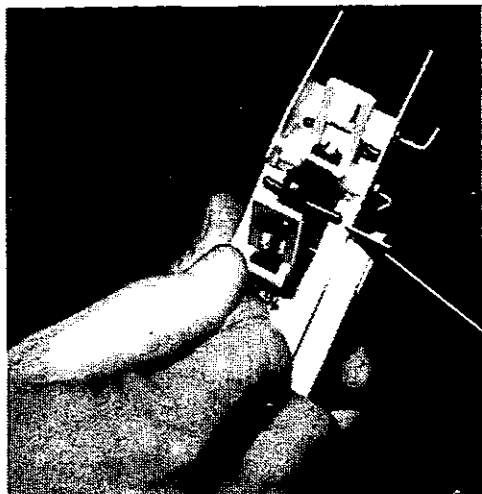


← Remove the dispenser number and price cover (FIGURE HB).

Remove the screw from the side of the dispenser (FIGURE HC) which serves as the stop and pull slide from the machine. →



← Release the detent spring by pushing the flat end away from the detent spacer and pulling it from under the spacer. (FIGURE HD)



Hold the front end of slide up with one hand and grasp the chain hook with the other hand. Pull the chain support pin up and over the chain support slide while rotating the chain opposite to normal rotation. Repeat until eight (8) pins are on top of the slide, (this will allow enough slack to unhook the chain.) (FIGURE HE)

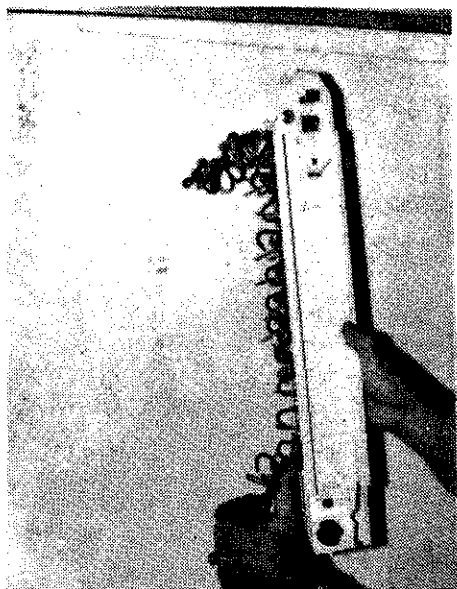
← Support Pin

Unhook the chain by laying the slide module on a work surface with the front end pointing right. Place left thumb under a support pin while placing fingers on top of the other end of the support pin. Grasp gray colored retainer link with right hand and gently twist the chain until it unsnaps. (FIGURE HF)



Hold slide vertical with the front end up, and the chain will fall free of the inner portion of the slide. (FIGURE HG)



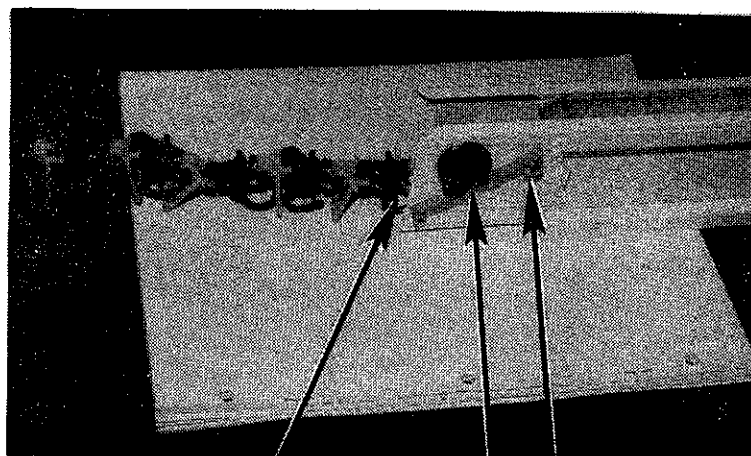


Still holding the slide vertical, lift bottom of chain outward and away from the slide. Push upward. The chain should easily slide free. (FIGURE HH)



After repairing chain, reassemble all components, making sure the chain has 28 of each link. (28 chain links, 28 plain links, and 28 retainer links.)

To replace chain, lay module on its top, reengage detent spring by turning the detent sprocket to the detent position and then pull the spring up and over the detent spacer. Route the chain through the back of the module with the hooks pointing forward as shown. Continue pushing the chain through until equal lengths are sticking out both ends and a support pin is even with the end of the module. (FIGURE HI)



Support Pin

Detent Spacer
Sprocket Detent

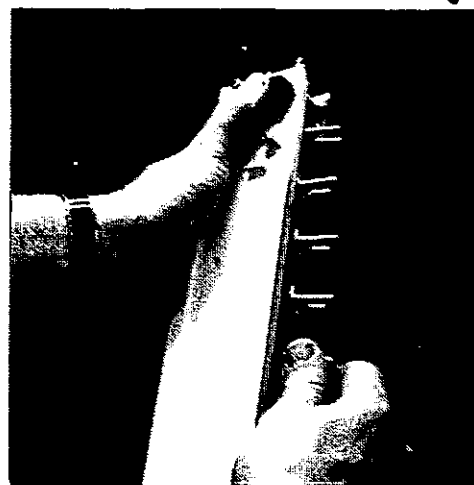


To properly time the chain, keep a support pin even with the back of the module, while pulling the chain ends up and over the module. Place the snap connector on the chain slide, then press the gray link into the snap connector. (FIGURE HJ)

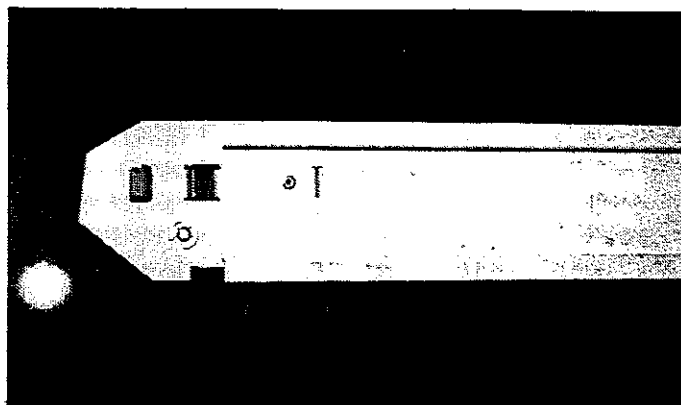




Grasp the chain with one hand while holding the module with the other hand. Place thumb on sprocket to prevent it from coming out of the bushing and pull the chain in the direction of normal rotation. This will reengage the chain support pins in the chain slide. (Do not rotate the chain backward to normal rotation as this would break the support pins.) (FIG. HK)



Continue pulling the chain until three (3) complete cycles have been made. If the timing is correct, the chain will be in the position shown when the detent spring is in the detent position. (FIGURE HL)





SELECTOR SWITCH

The 15 button selector switch is mounted inside the right front of the product compartment behind the sliding electrical compartment door. It may be removed by backing out four phillips head screws and disconnecting it from the control box.

PRODUCT DELIVERY COMPARTMENT

This sub-assembly, including the "push" plastic door, may be removed from the front of the machine thru the storage compartment. This may be accomplished as follows:

- Remove display compartment bottom. (5 screws)
- Remove left fluorescent.
- Remove the left side panel. (6 screws)
- Remove the right side panel and sliding door.
- Remove 3 screws on the front inside edge of the delivery compartment.
Note: Support the compartment while removing the last screw to prevent dropping.
- Lift up compartment to release it and lower it into the storage compartment.
- Open storage compartment and remove.
- Reverse procedure to replace.

REAR ACCESS COVER

A large access cover is provided on the rear of the W-15. Its major purpose is to permit access to the wiring harness in the rear of the machine. To remove it, withdraw two screws accessible through holes above dispensers #1 and #5. Have someone hold cover from the rear or secure with tape to keep cover from falling off when screws are removed.

Replace in reverse order. Note: Use of a magnetic screwdriver facilitates replacement.



W-15 INTERNATIONAL ROUTINE TROUBLE DETECTION & SOLUTION (TROUBLE SHOOTING)

- MACHINE WILL NOT ACCEPT COINS
 - Check that machine is connected to power (are lamps on?).
 - Is the changer plug making proper connections? Check 24V fuse (is correct coins light on?)
 - If all observable conditions are satisfactory, manually pull #15 dispensing chain forward by grasping several segments of chain with both hands. If it electrically picks up and completes one cycle, repeat using dispenser #1. If #1 fails to pick up electrically, the ladder circuit between #15 and #1 is broken. Locate break by testing each dispenser in the following order: 14,13,12,11,10, 9 8,7,6,5,4,3,2. When one in this sequence fails to function it or the previously tested one, or the wiring in between is faulty.
 - Remove plastic section of changer under acceptor and observe escrow bucket. If one side is down when power is on, replace changer.
 - If the problem persists, replace the coin mechanism.
 - Last, change the slider price setting module.
- MACHINE WILL ACCEPT COINS BUT...
 - No selection can be made.
 - Check connector engagement from selector switch assembly to harness.
 - Check wire between harness and selector switch.
 - If all observable conditions are satisfactory, manually pull #15 dispensing chain forward by grasping several segments of chain with both hands. If it electrically picks up and completes one cycle, repeat using dispenser #1. If #1 fails to pick up electrically, the ladder circuit between #15 and #1 is broken. Locate break by testing each dispenser in the following order: 14,13,12,11,10,9,8,7,6,5,4,3,2. When one in this sequence fails to function, it or the previously tested one or the wiring in between is faulty.
 - Check for proper price settings.
 - Check for defective coin mechanism and matrix box by substituting one known to be good.



- Only Some Selections Can Be Made

NOTE: Identify all non-operable selections by number and their relation by price setting, position in machine or position on selector switch.

- Check for proper price settings in changer.
- Check for loose wires on price selection terminal board or terminal block.
- Check for defective selector switch assembly. The selector switch is wired in series starting at position #1 and running down the left side through the odd numbers. A jumper then connects to position #2 and the series circuit runs down the right side through the even numbers. A defective selector switch is indicated when a sequence of selections in the series does not operate.

EXAMPLE: Selections #1, #3, #5, & #7 can be made but the remaining selections cannot. The selector switch is defective between positions #7 & #9.

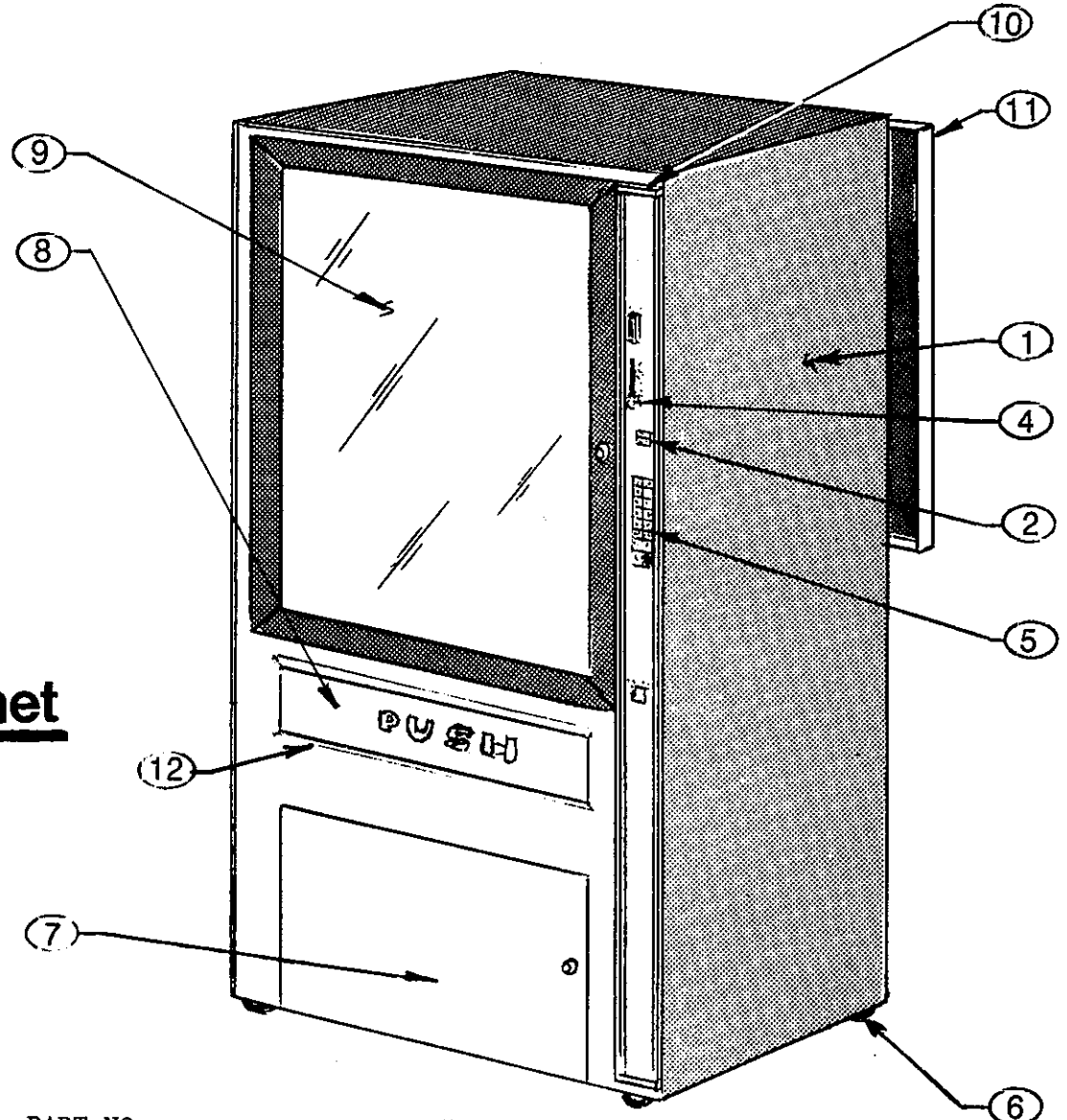
- If only one price level cannot be vended in a 12 price unit, the associated relay in the price selection module is faulty. Replace the relay, or replace the module and return to service for repair.
- Substitute a coin mechanism and see if the problem is corrected. If so, one of the price levels in the changer is defective.
- Check for defective dispensing motor(s).
- MACHINE WILL ACCEPT SOME COINS BUT NOT OTHERS
 - The Mars changer uses photo cell detectors for measuring coins for acceptance. If any one cell or related circuit fails, that cell will be out of operation and the related coin rejected. Replace coin mechanism and return defective one for repair.
- COMMON FAULTS
 - An empty pocket or clip. Reported as "machine did not work".
 - Not clicking the module back firmly. In this case the motor will turn without moving the chain. It may even go part-way through a cycle and thus immobilize the whole machine.



- Displacement of bag clamp pin outside the channel.
- Loading of back clamp on chain. The last clamp on the chain is not intended as a loading point and will force its load into the back of the cabinet when the module is pushed back.
- Pulling down too hard when loading the bag clamp. The clamp can jam or perhaps have its components displaced when vend occurs.
- Fluctuating voltage can cause the 3.2A, 24V fuse to blow.

NOTE: ALSO SEE INSTALLATION PROCEDURES ON PAGES 2 & 3

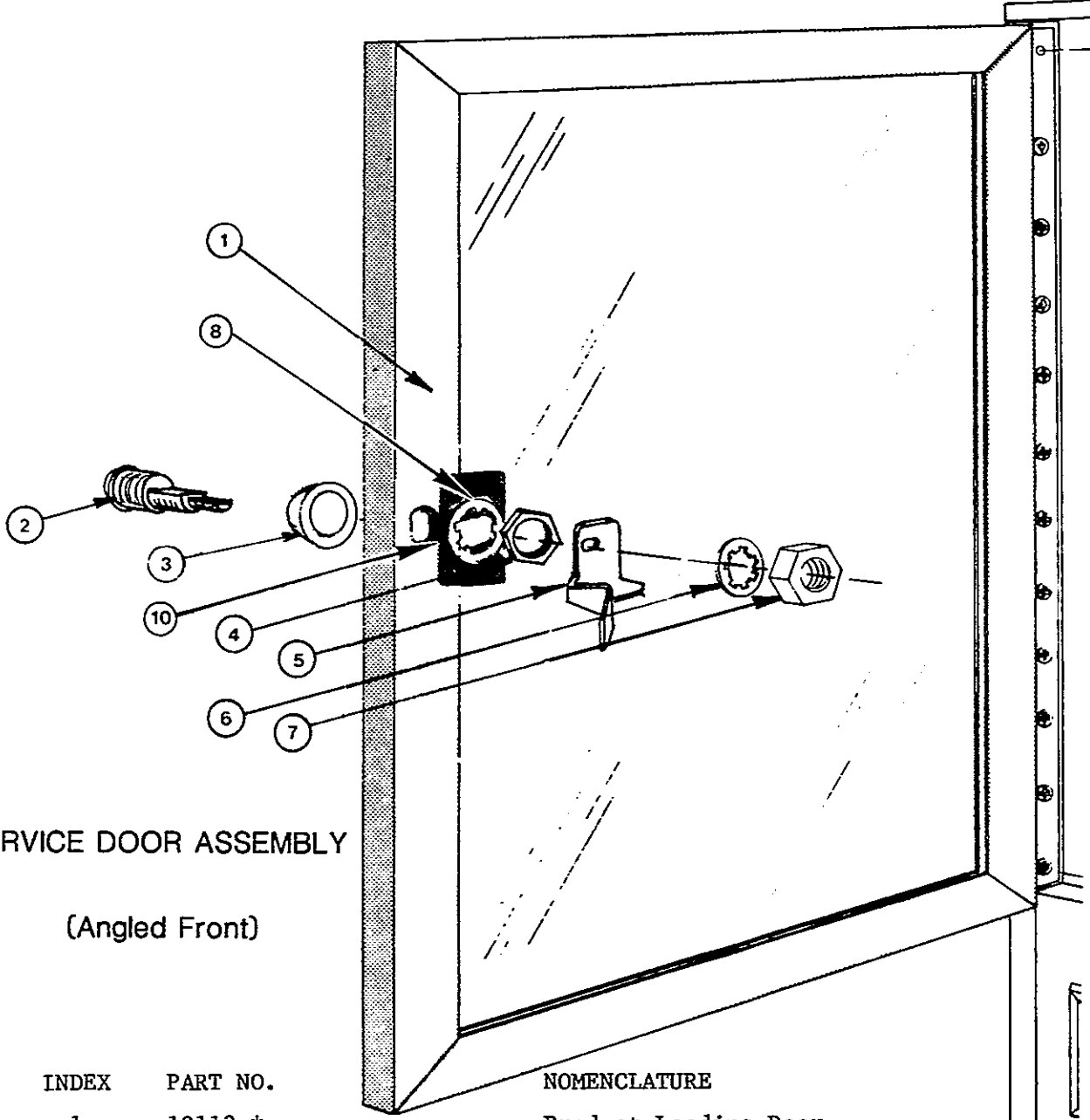
Cabinet



INDEX	PART NO.	NOMENCLATURE
1	11009-*	Outer Shell
2	8613	Indicator Lamp
	4015	Change & Select Lamp
4	11031	Reject Lever Assembly
5	11056	Selector Switch Assembly
6	295	Leg Equalizer
7	Specify on pg. 45 or 46	Storage Compartment Door
8	Specify on pg. 32	Delivery Compartment Asy
9	Specify on pg. 33 or 34	Service Door Asy
10	4960	Trim Cap
11	11027-*	Rear Door
12	4988	Trim Set (Black)
	1948	Trim Set (Silver)

* Specify color by the following dash numbers

-02 Vendo Beige	-06 Sweden Beige
-03 Beige Enamel	-07 White
-05 Pearlton Grey	



SERVICE DOOR ASSEMBLY

(Angled Front)

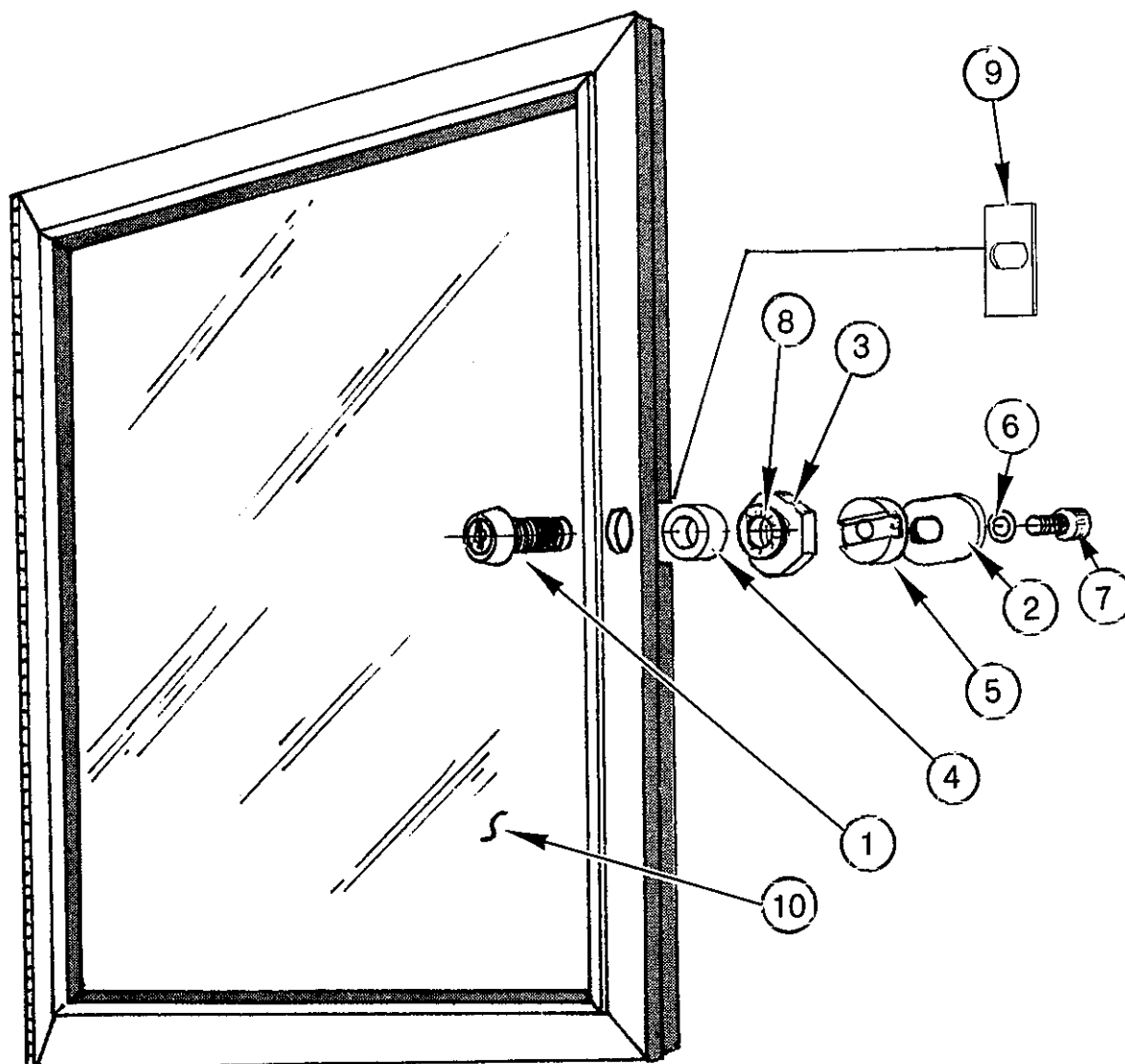
INDEX	PART NO.
1	10113-*
2	351-**
3	12250
4	1788
5	1531
6	357
7	358
8	366
10	1250

NOMENCLATURE

Product Loading Door
Ace 4152 Lock
Protection Collar For Flex-ace Lock
Hex Nut
Cam
Lockwasher
Hex Nut
Lockwasher
Reinforcing Plate

* Color: -01 Silver
 -02 Black

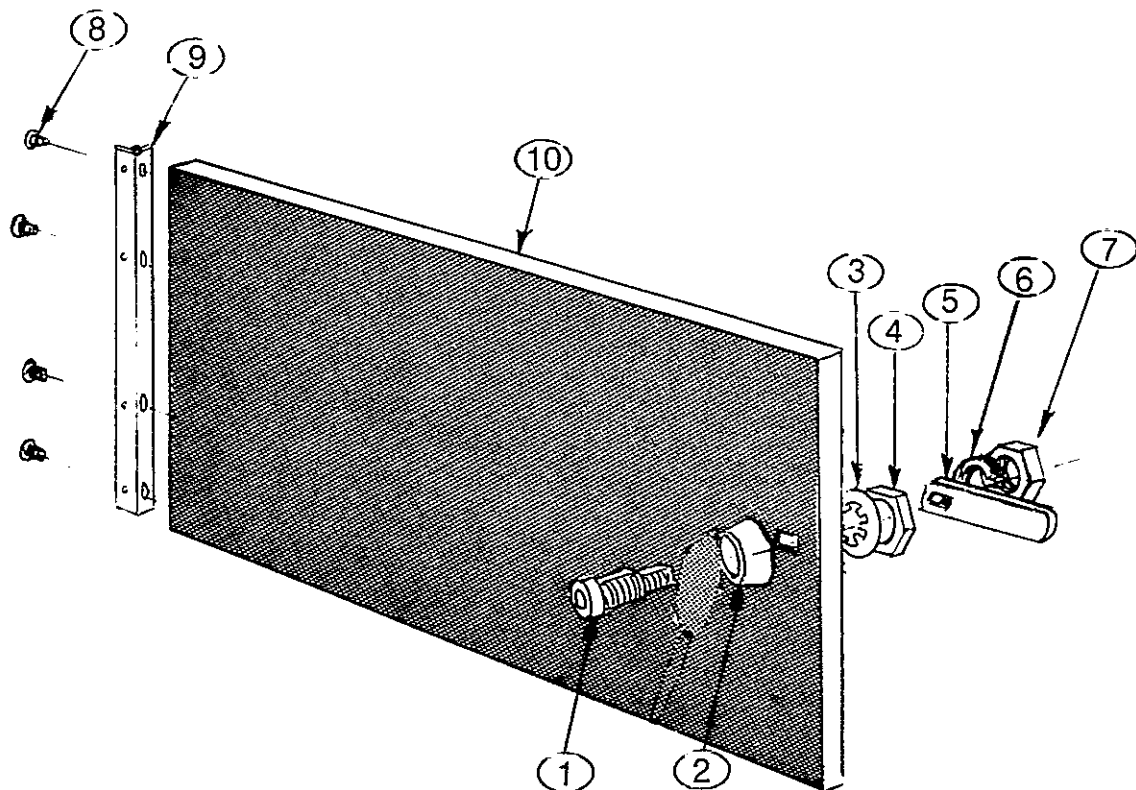
** Please specify key number when ordering



SERVICE DOOR ASSEMBLY (Flat Front)

ITEM	PART NO.	NOMENCLATURE
1	11531-01	Tumbler - Barrel C2A
2	8499	Cam
3	11520	Nut - Hex SP 3/4 - 24
4	5107-02	Spacer - Lock
5	5946	Extension - Lock
6	277	Washer - Flat 5/16 I.D.
7	11521	Screw - SEMS Trs #10
8	366	Washer - Int. Tooth
9	1250	Reinforcement - Lock
10	13120	Service Door Asy (Black - Tinted)

STORAGE DOOR ASSEMBLY



INDEX PART NUMBER

1	351-**	Flex-Ace Lock, Keyed MSU
2	12250	Protecting Collar
*** 3	366	Washer - Shakeproof
4	1788	Hex Nut
5	3548	Cam
6	357	Washer - Shakeproof
7	358	Hex Nut
8	638	Screws - #8-32 x 3/8" Type 23 (Undercut Flat Hd Phillips Recess, Z.P.)
9	2305	Hinge
10	5137-*	Storage Compartment Door

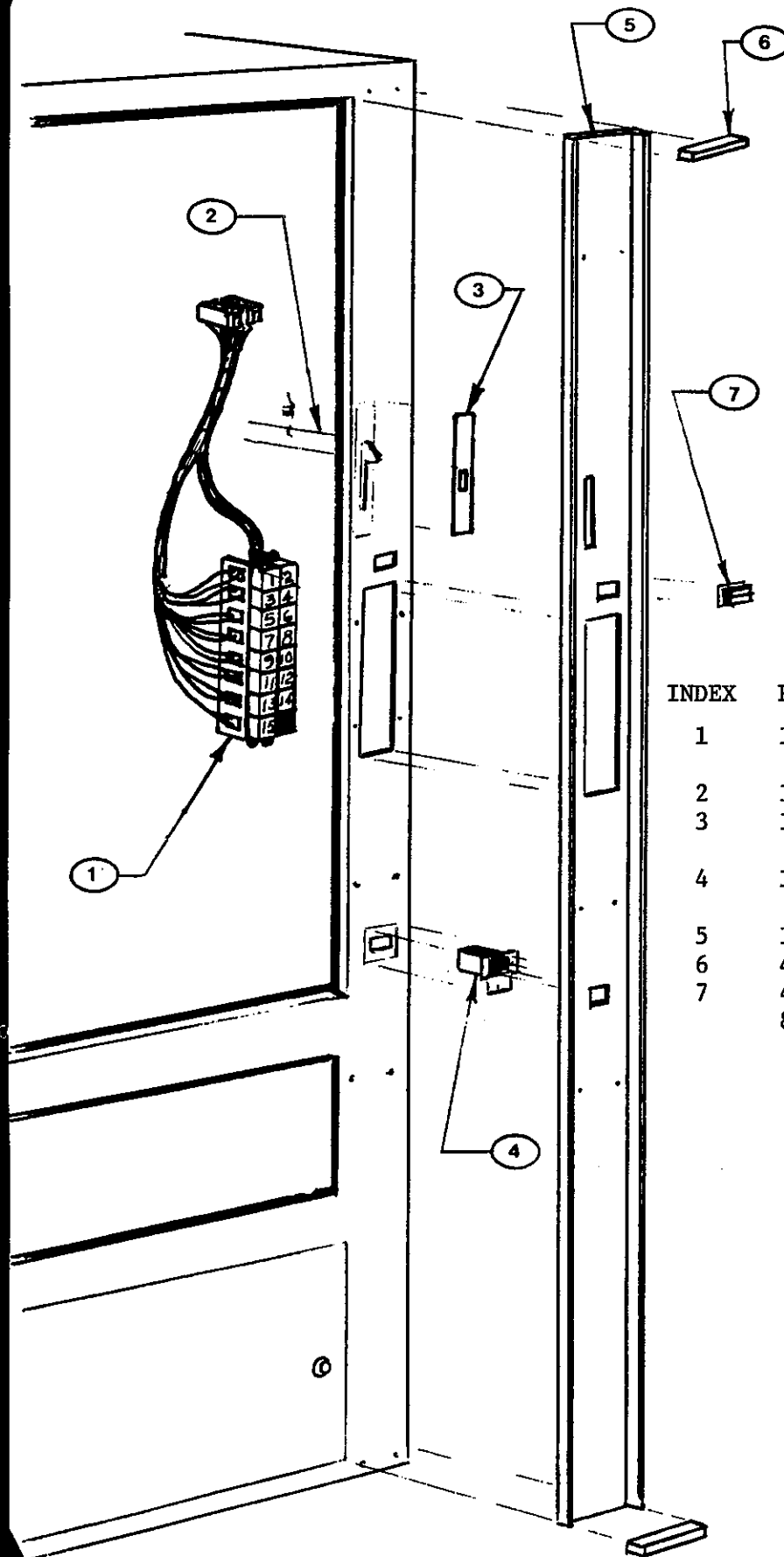
* Specify color by the
--following dash numbers--

- 02 Vendo Beige
- 03 Beige Enamel
- 05 Pearltone Grey
- 06 Sweden Brown
- 07 White

For flat key type lock - substitute
the following parts for items 1-7:

*** 11530-01	- Barrel & Tumbler **
8496	- Cam
11520	- Nut - Hex
8504	- Washer
4737	- Screw
5364	- Washer #10

** Please specify key number

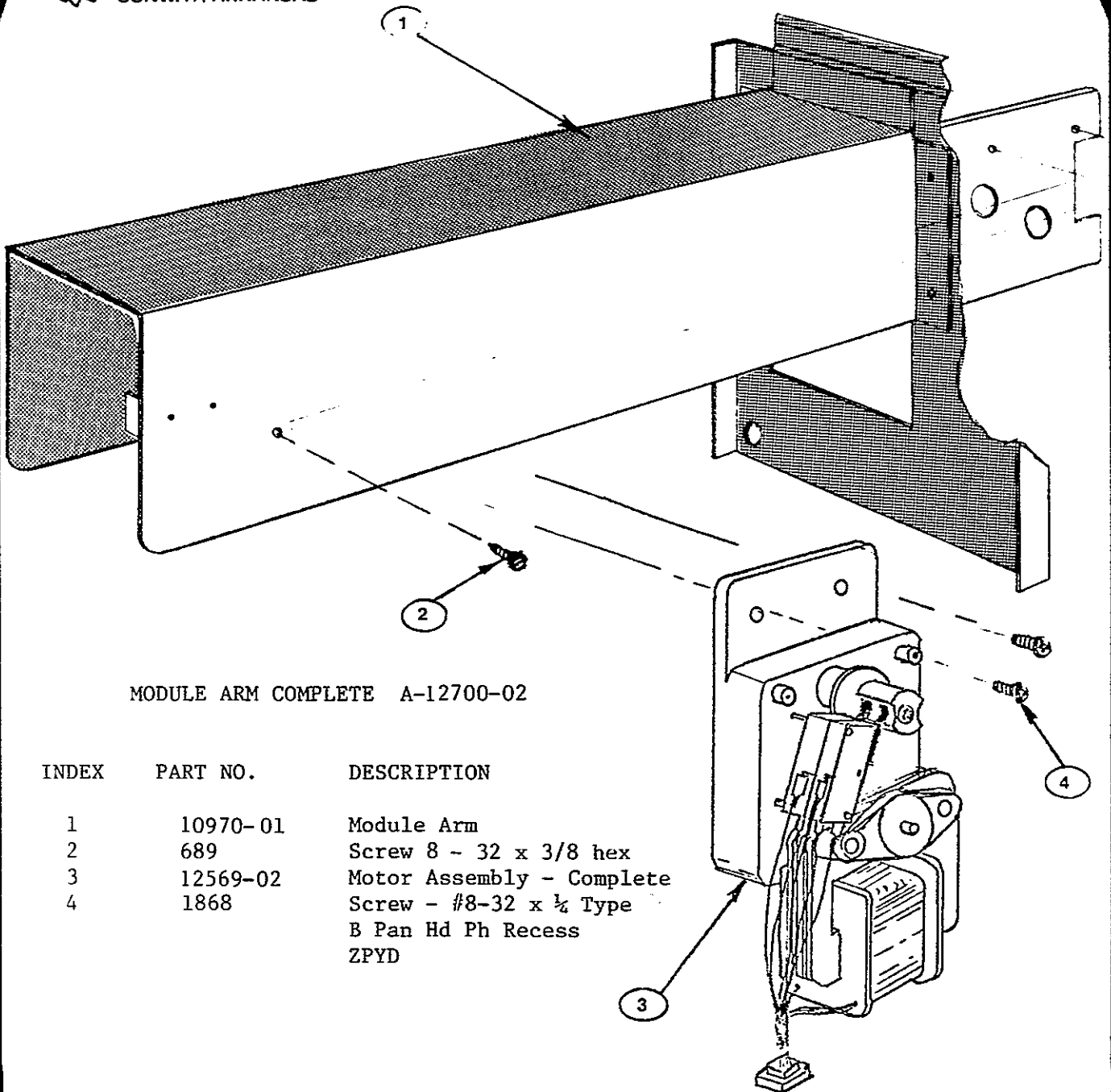


trim

INDEX	PART NO.	NOMENCLATURE
1	11056	Selector Switch Assembly
2	11031	Reject Lever Asy
3	1414	Reject Lever Cover Plate
4	10342	Coin Return Cup Assembly
5	12619	Escutcheon Plate
6	4960	Trim Cap
7	4015 or 8613	Indicator Light

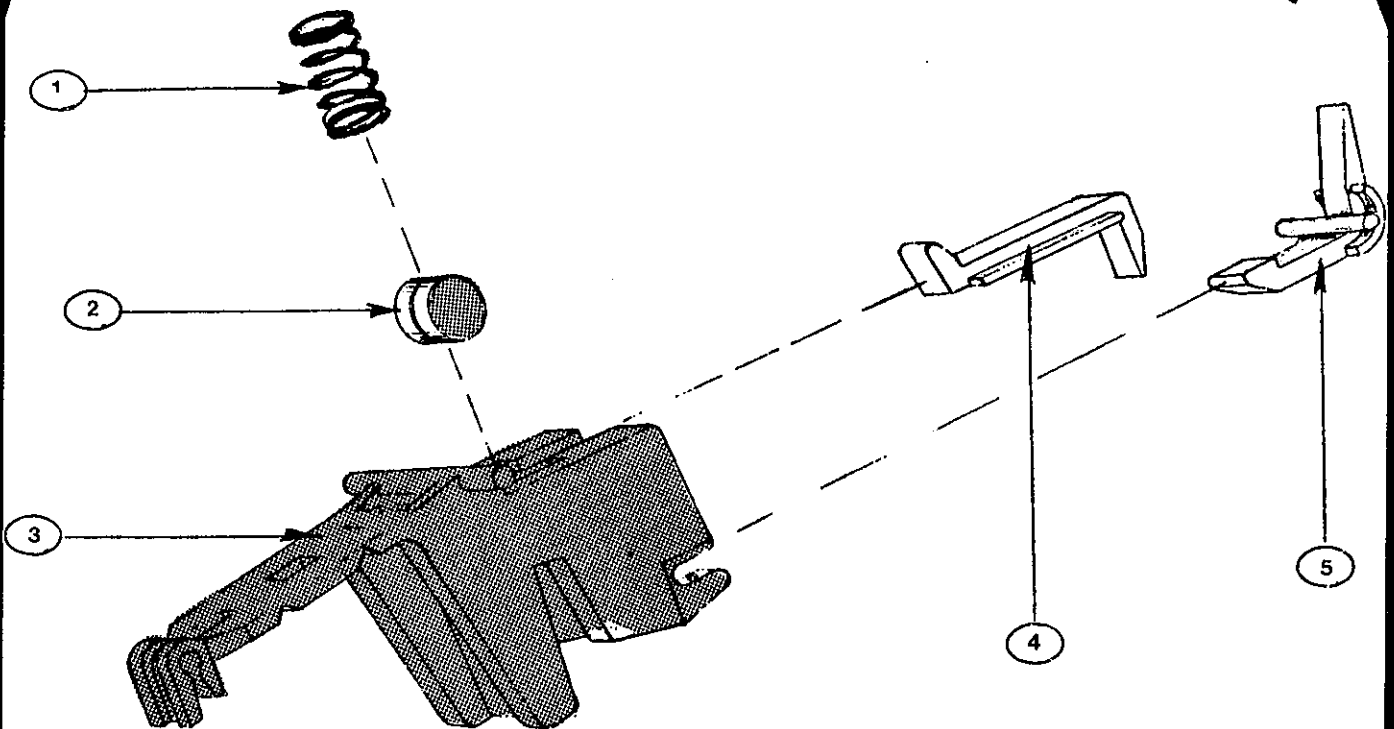


Polyvend
CONWAY, ARKANSAS



MODULE ARM COMPLETE A-12700-02

INDEX	PART NO.	DESCRIPTION
1	10970-01	Module Arm
2	689	Screw 8 - 32 x 3/8 hex
3	12569-02	Motor Assembly - Complete
4	1868	Screw - #8-32 x 1/4 Type B Pan Hd Ph Recess ZPYD

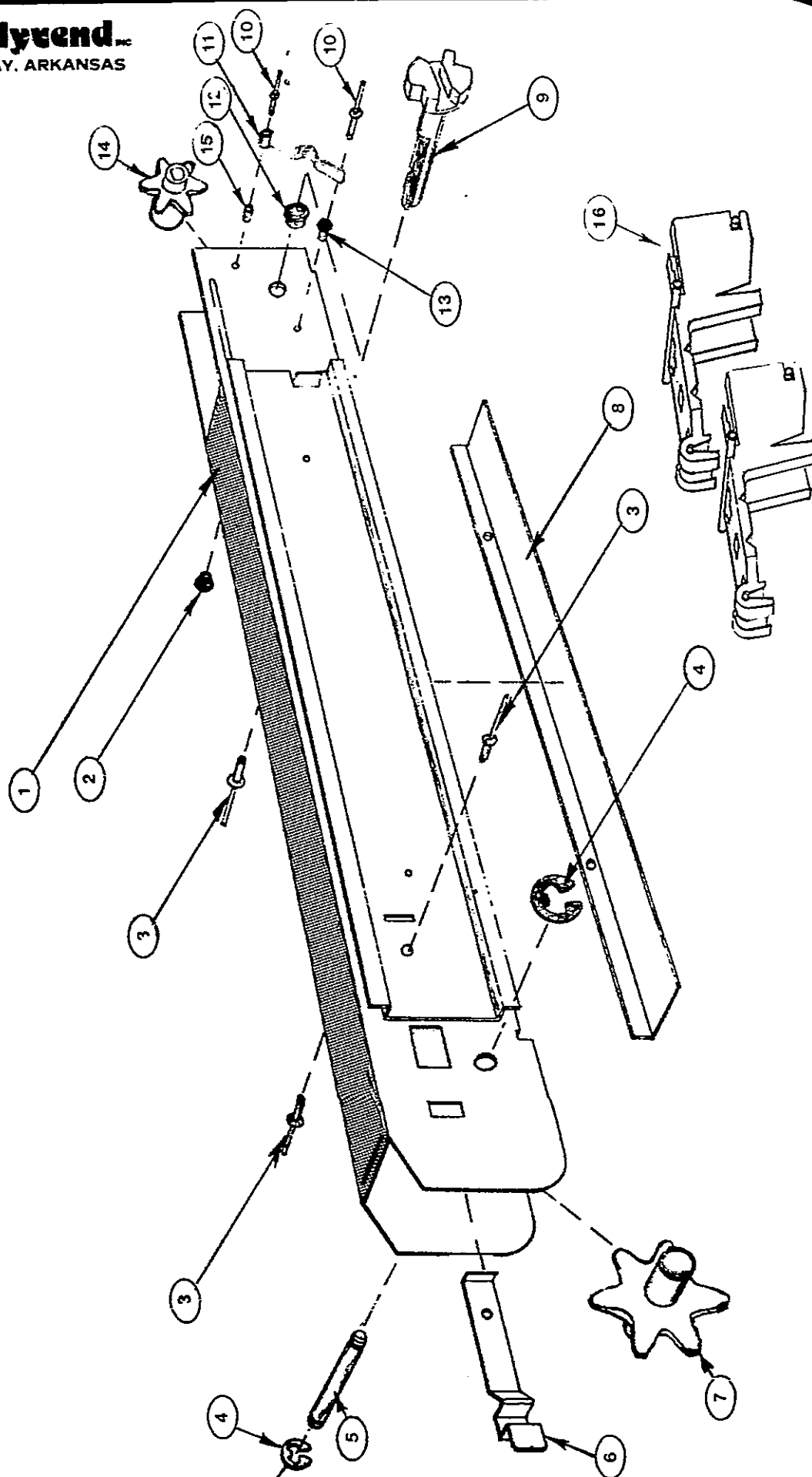


CHAIN SEGMENT ASSEMBLY 10416

INDEX	PART NO.	DESCRIPTION
1	1720	Spring, Compression
2	1754	Wedge, Cylindrical (2 req)
3	1723	Chain Housing Segment
4	1717	Slide
5	1719	Lifter, Cylinder



Polytend^{INC.}
CONWAY, ARKANSAS

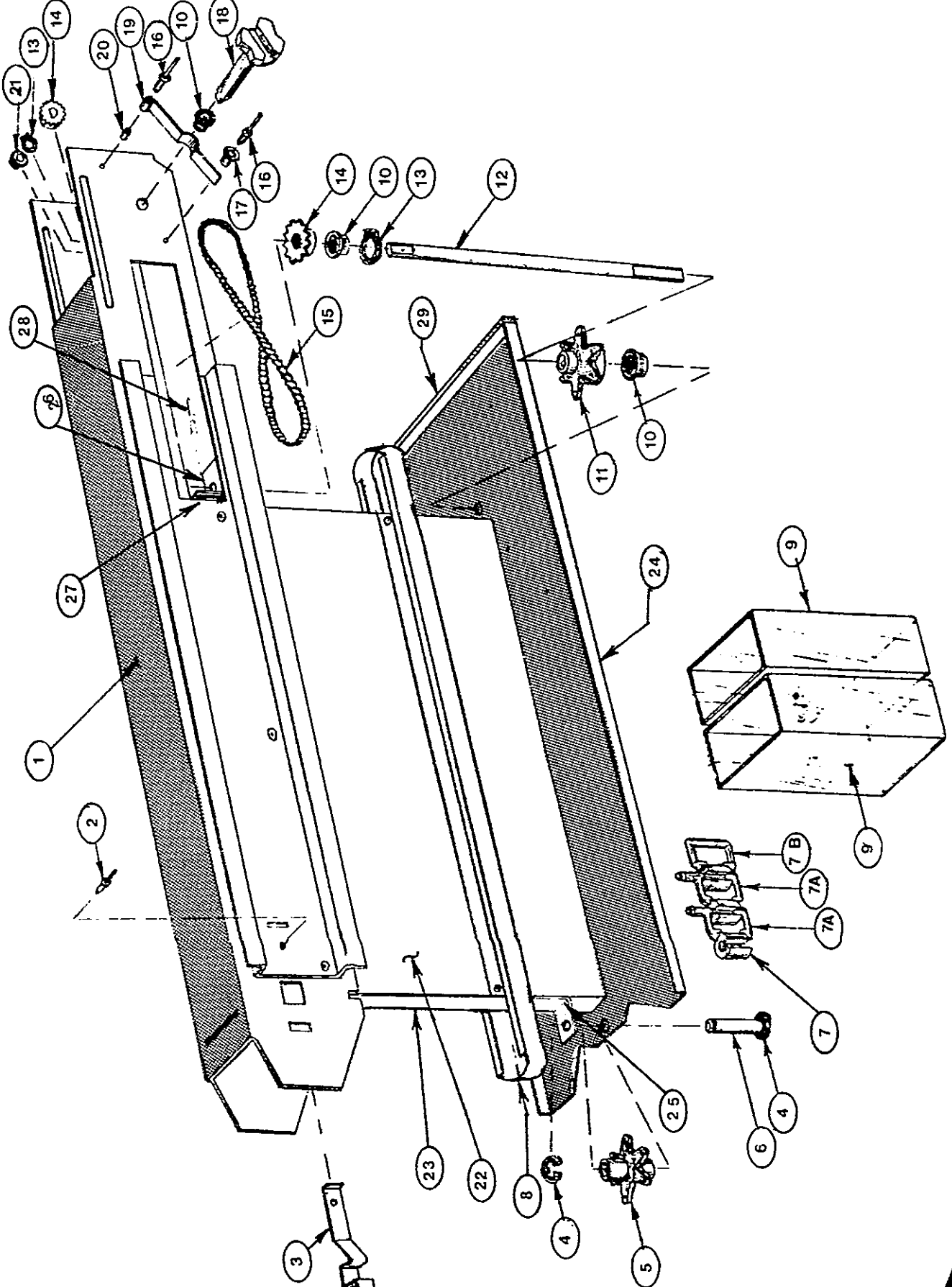




RACK MODULE - -10972-01		
INDEX	PART NO.	DESCRIPTION
1	10971-02	Slide and Module Assembly
2	730	Bushing
3	729	"Pop" Rivet SD-42-BS
4	2559	"E" Ring, Tru Arc
5	2558	Front Sprocket Shaft
6	1744	Spring Lock
7	2565	Sprocket -- Front
8	4994	Chain Guide
9	1741	Sprocket Shaft -- Rear
10	1642	"Pop" Rivet SD-45-BS
11	1743	Spring, Rear Sprocket, Detent
12	1178	Bearing Bushing
13	1745	Spacer - Detent, Spring "T"
14	2563	Sprocket - Rear
15	1869	Spacer - Detent, Spring "Plain"
16	10965	Chain Assembly Complete (24 segments)



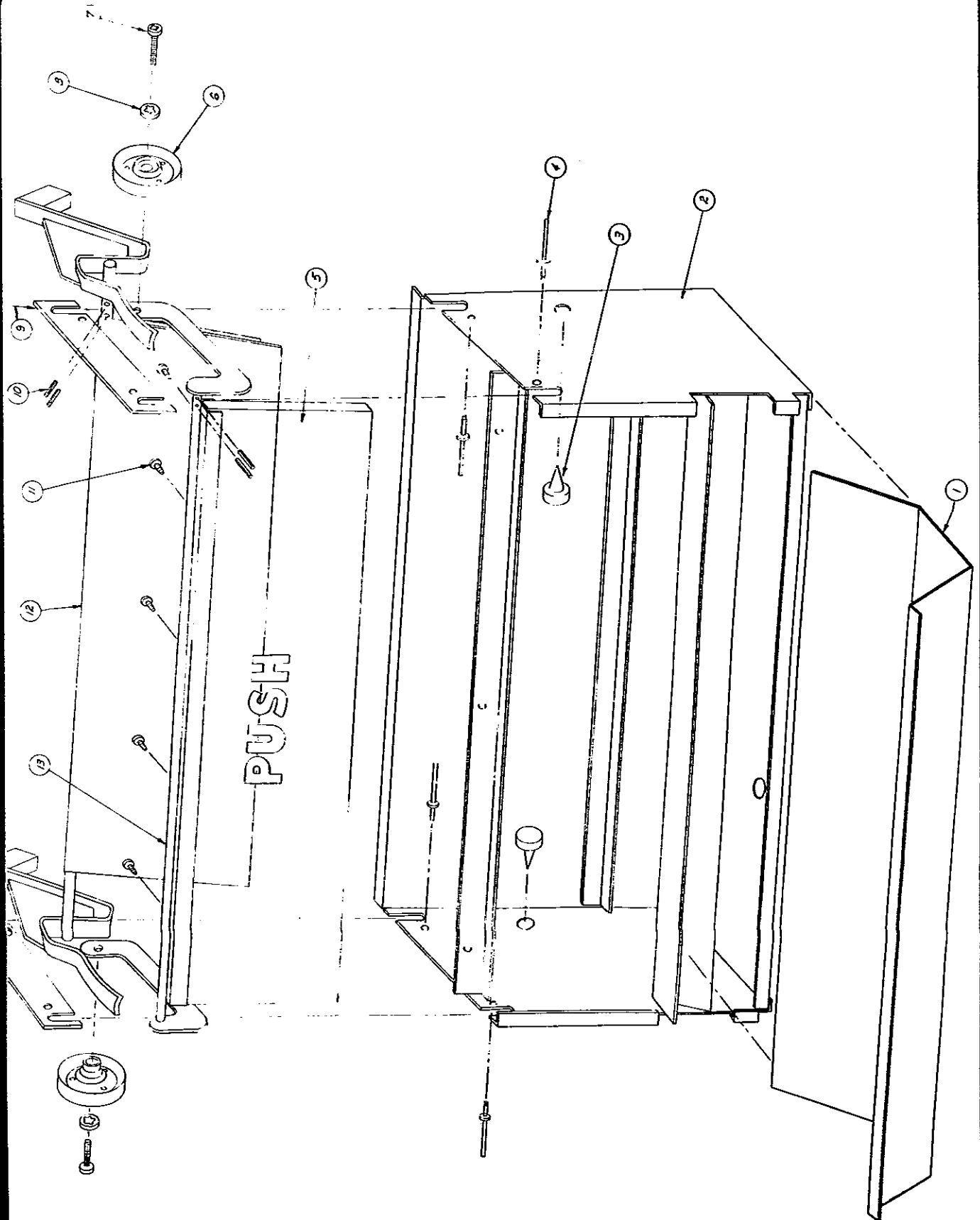
Polyrend.
CONWAY, ARKANSAS





CANDY MODULE ASY. 11086-02

ITEM	PART NO.	NOMENCLATURE
1	11053-02	Candy Slide & Module WA
2	729	Rivet - Pop
3	1744	Lock - Spring
4	2559	Ring "E", Tru Arc
5	2565	Sprocket - Front
6	2558	Shaft - Front Sprocket
7	10689	Chain Asy. Complete, 18 Segments
7A	1945	Link - Cup Retainer (36 req'd)
7B	1946	Link - Plain (18 req'd)
8	12822	Guide - Cup Chain
9	4886	Cup - Dispensing
10	1178	Bushing - Bearing
11	2563	Sprocket - Rear
12	1939	Shaft - Vertical
13	2225	Ring - Grip
14	1927	Sprocket - Drive
15	1928-01	Chain - Ladder
16	1642	Rivet - Pop
17	1745	Spacer - Detent Spring
18	1741	Shaft - Rear Sprocket
19	1743	Spring - Rear Sprocket Detent
20	1869	Spacer - Detent Spring
21	730	Bushing - Sprocket
22	4905-02	Divider - Right Side
23	4906-02	Divider - Left Side
24	5228	Bottom Candy Module
25	1935-02	Retainer - Front Shaft
26	1936-02	Retainer - Rear Shaft
27	4846	Plate - Reinforcement
28	4948	Rivet - Pop
29	810-01	Stripping - Neoprene





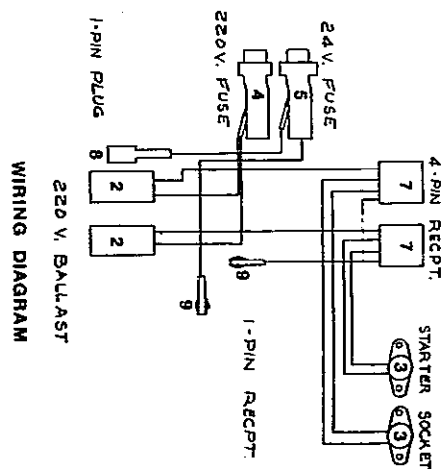
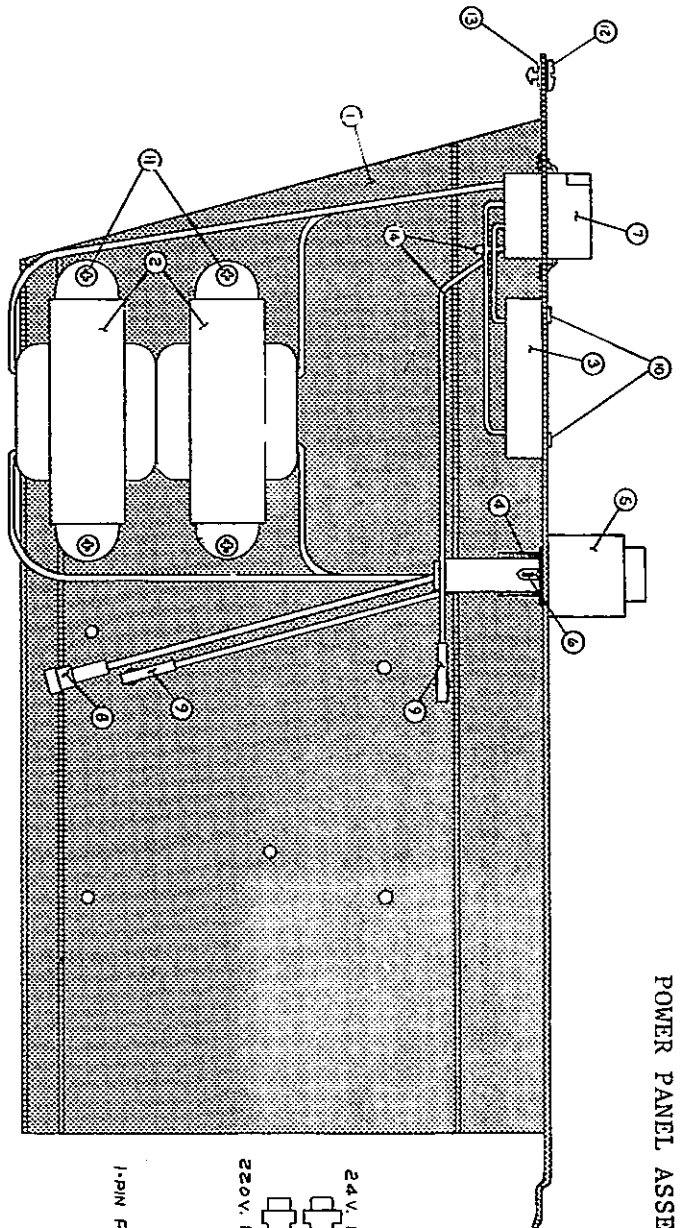
DELIVERY COMPARTMENT ASSEMBLY COMPLETE *

ITEM	PART NO.	NOMENCLATURE
1	1841	Bottom - False
2	10469-01	Compartment WA - Delivery
3	842	Bumper - Snap In Rubber
4	729	Rivet - Pop .125 x .232
5	*	Door - Delivery
6	534	Wheel - Roller Skate
7	13220	Screw TP "F" Pan #8
8	266	Washer Int. Tooth #8
9	1817	Retainer - Delivery Compartment Door
10	1272	Pin - Roll 3/32 x 5/8
11	1298	Screw TP "AB" Pan #8
12	10431-01	Door WA Anti-theft
13	10432-01	Arm WA - Channel

* Specify By:

11168 Asy - Uses	1851-02	-	"Push" Door
11419 Asy - Uses	8686	-	"Pous Et Prn" Door
12284 Asy - Uses	11746	-	"TRYCK" Door
13425 Asy - Uses	13423	-	"Push" (Tinted) Door

POWER PANEL ASSEMBLY 12692



WIRING DIAGRAM

ITEM QTY. PART NUMBER

1	1	12706-01
2	2	11503
3	2	1466
4	1	996
5	1	1487
6	1	1489
7	2	4839
8	1	4842
9	2	4841
10	4	302
11	4	1298
12	1	12667
13	1	12668
	1	12671
	1	12672
14	Typ	
	1	1488
	1	222

NOMENCLATURE

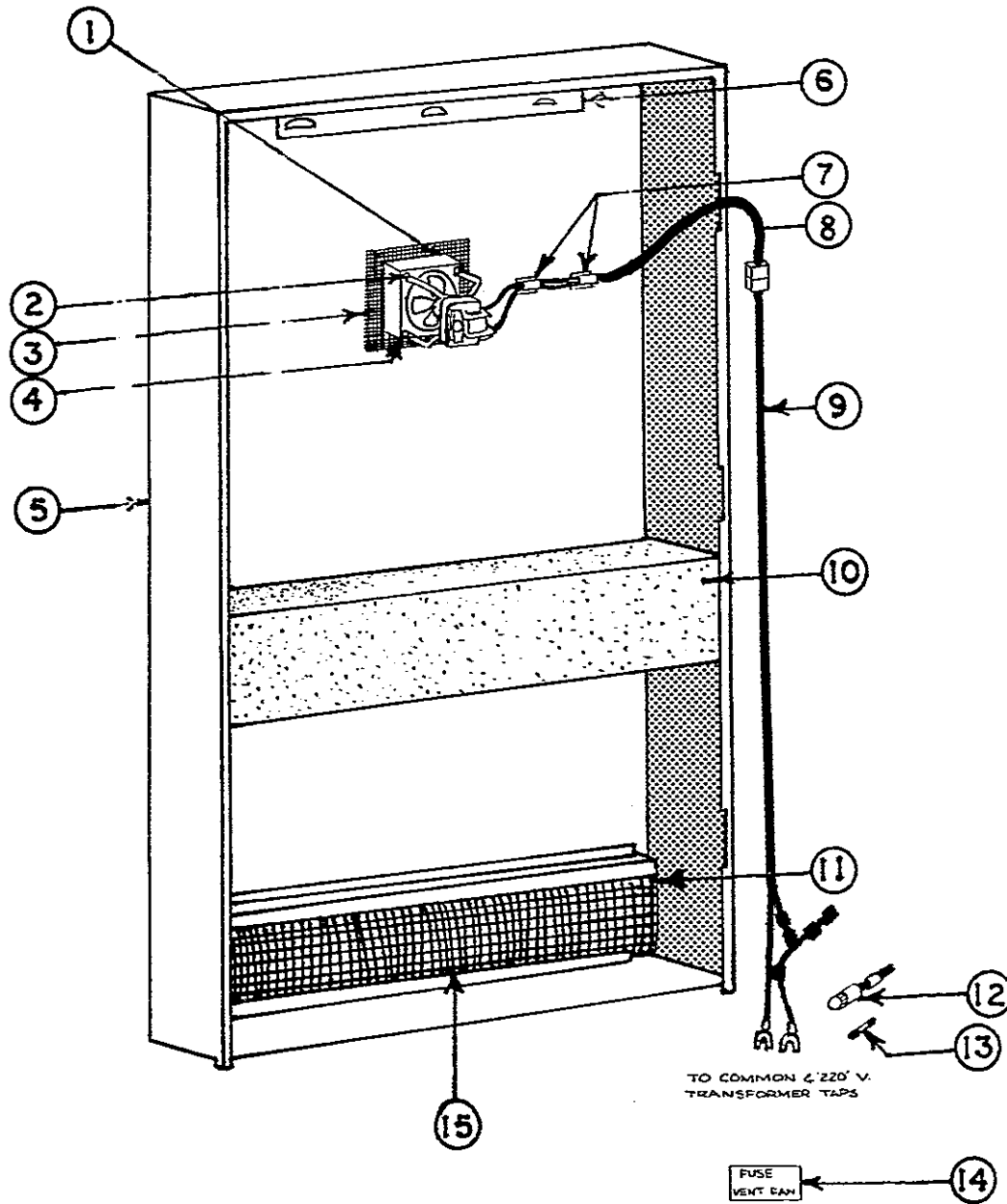
Panel-Power
Ballast - 220 Volt
Socket - Starter
Fuseholder
Fuseholder - 24 volt
Clip - Mounting
Receptacle - 4-pin Molex #1490R
Plug - 1-Pin Molex #1619P
Receptacle - 1-pin Molex #1619R
Screw
Screw
Fastener - $\frac{1}{4}$ Turn
Retainer - Fastener
Decal - Starter
Decal - Fuse
(Red) 20 AWG 7/28 B.C., .023" PVC,SAE,GBT
Fuse - 3.2 Amp (Used on Item No. 5)
Fuse - 2Amp (Used on Item No. 4)



12690

and Resistor.

12690 is mounted to Power Panel .12692



NOTE: DECAL TO BE ATTACHED INSIDE MACHINE UNDERNEATH FUSE



DOOR - REAR WITH FAN 12061-*

ITEM	PART NUMBER	NOMENCLATURE
1	11694	Nut - Hex #6-32
2	11909	Screw, #6-32 x 1"
3	9075-02	Screen, 6" x 6"; 153 mm x 153 mm
4	11696	Fan, Exhaust
5	12066-*	Door, Weld Asy
6	338	Tape, Grey
7	8538-01	Clamp, Cable 3/8"
8	12526	Harness - Fan
9	12637	Harness - Transformer
10	12062	Baffle, Foam (attach with 983 adhesive)
11	766-05	Screen - Intake (behind filter)
12	996	Holder - Fuse
13	12821	Fuse, Rear Door Fan
14	12606	Decal - Fuse, Vent Fan
15	12063	Filter - Intake

* Specify Color

-02	Sweden Beige
-03	White



W-15 INTERNATIONAL

4 & 12 PRICE

ALPHABETICAL PARTS LIST

PART NUMBER	NOMENCLATURE
12700-02.....	Arm Asy - Module
10432-01.....	Arm WA - Channel
10970-01.....	Arm WA - Module
12062.....	Baffle - Foam, Door Fan
10665-01.....	Bank WA - Coin
13186.....	Board Asy - PC DCD
3193.....	Board Asy - Terminal
4852-01.....	Bottom - Display
1841.....	Bottom - False
13188-01.....	Bracket - PC Mtg.
8439-01.....	Bracket - Side Lamp
795-01.....	Bracket - Top Lamp Mtg.
12289-01.....	Bracket WA - Matrix Box
8438-01.....	Bracket - Wire Cover
842.....	Bumper - Snap-In Rubr.
1178.....	Bushing - Bearing
730.....	Bushing - SB-437-5
1961.....	Bushing - SB-1500-21
2438.....	Bushing - SR-6N3-4
1531-01.....	Cam - Double Offset
3548.....	Cam - Lock 7235
5404.....	Cam - Lock, 7-1
8496.....	Cam - Lock
8499.....	Cam - Lock
4960.....	Cap - Trim
4960-02.....	Cap - Trim, Brown
12202.....	Casting - Coin Insert
11029-01.....	Chute WA - Coin
11096-01.....	Chute WA - Coin Hopper
8538-01.....	Clamp - Cable 3/8
8538-02.....	Clamp - Cable 5/8
1865-01.....	Clamp - Harness
12250.....	Collar - Lock
11168.....	Compartment Asy - Delivery
13425.....	Compartment Asy - Delivery - Tinted Push
11419.....	Compartment Asy - Delivery - Pous Et Prn
10469-01.....	Compartment Asy - Delivery
12284.....	Compartment Asy - Delivery, TRYCK
12244.....	Cord - Power
12139.....	Cord - Power
12140.....	Cord - Power
5158-01.....	Cover - Rear Brace
10342.....	Cup Asy - Coin Return



PART NUMBER

NOMENCLATURE

13422.....Decal - Polyvend
5213.....Decal - Sel. Number
12606.....Decal - Vent Fan Fuse
4862-01.....Deflector - L.H.
11027-02.....Door Asy - Rear, Vendo Beige
10113-01.....Door Asy - Service, Silver
10113-02.....Door Asy - Service, Blk
13120.....Door Asy - Service, Blk-Tinted
12061-02.....Door Asy - Vented, Sweden Beige
12061-03.....Door Asy - Vented, White
1851-02.....Door - Del., Blk-Push
8686.....Door - Del, POUS ET PRN
13423.....Door - Del., Blk - Push
11746.....Door - Del., TRYCK
5157-01.....Door - Sliding
5137-02.....Door - Storage Compt., Vendo Beige
5137-06.....Door - Storage Compt., Sweden Brown
5137-07.....Door - Storage Compt., White
10431-01.....Door WA - Anti-theft
12066-02.....Door WA - Rear Vented, Sweden Beige
12066-03.....Door WA - Rear Vented, White
5946.....Extension - Lock
11696.....Fan - Exhaust
12063.....Filter - Intake
11362-01.....Fixture Asy - Light
10217-01.....Fixture Asy - Light
1488.....Fuse - GMO 3
222.....Fuse - MDL 2
12821.....Fuse - Rear Door Fan
4994.....Guide - Chain
12666.....Harness - Correct Change
12676.....Harness - Correct Change
13184.....Harness - DCD
12526.....Harness - Fan
12690.....Harness - Jones Plug
1520.....Harness - Lamp
1629.....Harness - Lamp
12685.....Harness - Main Motor
12292.....Harness - Matrix Box
12291.....Harness - Price Select
5200.....Harness - SubMain 15 4P
12637.....Harness - Transformer
2305-03.....Hinge - Storage Door ZP
996.....Holder - Fuse
11093-01.....Housing WA - Coin Box
5783.....Insert - Coin Reject
8609.....Insert - Instruction
5784.....Insert - Rej. Coin
8612.....Insert - Price, France

PART NUMBER

NOMENCLATURE

11731.....Insert - Sweden Coin Return
11732.....Insert - Sweden Coin Reject
11745.....Insert - Sweden Instr.
11736.....Insert - Sweden Price
1917.....Instruction - Cleaning
1910.....Instruction - Service/Loading
4714.....Instruction - Unpack and Install
352-01.....Key - MSU 1
352-10.....Key - MSU 10
352-48.....Key - MSU 48
11532-01.....Key - C2A
12023.....Kit - Floor Seal
11206.....Kit - Spare Parts, 15 4P
546.....Lamp - F18T8/CW/K28
4015.....Lamp - Change and Select
8613.....Lamp - Indicator
13185.....LED - W/Harness
13189.....Lens - Led
11031-01.....Lever WA - Reject
1744.....Lock - Spring
11086-02.....Module Asy - 15 WK
10972-02.....Module Asy - Rack
10971-01.....Module WA - Rack
12569-02.....Motor - Chip Machine
1788.....Nut - Hex SP 3/4 - 27
11694.....Nut - Hex #6 - 32
11520.....Nut - Hex 3/4-24
5203.....Package - Flange Tube C-15
5208.....Pad - Carton Corner
3641.....Pad - Corner, Crtn.
5206.....Pad - S/S
10966-01.....Panel WA - Motor Mtg.
12692.....Panel - Power
12708-01.....Panel WA - R.H. Inner
1272.....Pin - Roll 3/32 x 5/8
1293-25.....Plate - Data W-15 Export
1293-26.....Plate - Data W-15
13190-01.....Plate - Escut. W-15 (Brown)
13190.....Plate - Escut. 15 DCD
12619.....Plate - Escut. 15 Int.
1250-01.....Plate - Lock Reinf.
1250-02.....Plate - Lock Reinf.
1302.....Plate - Patent Notice
1414.....Plate - Rej. Lever Cover
12669.....Receptacle - Clip-on
1817.....Retainer - Del. Compt Door
2559.....Ring - E, 5133 - 25
642.....Rivet - Drive 125 D x 187
941.....Rivet - Pop 125D x 232

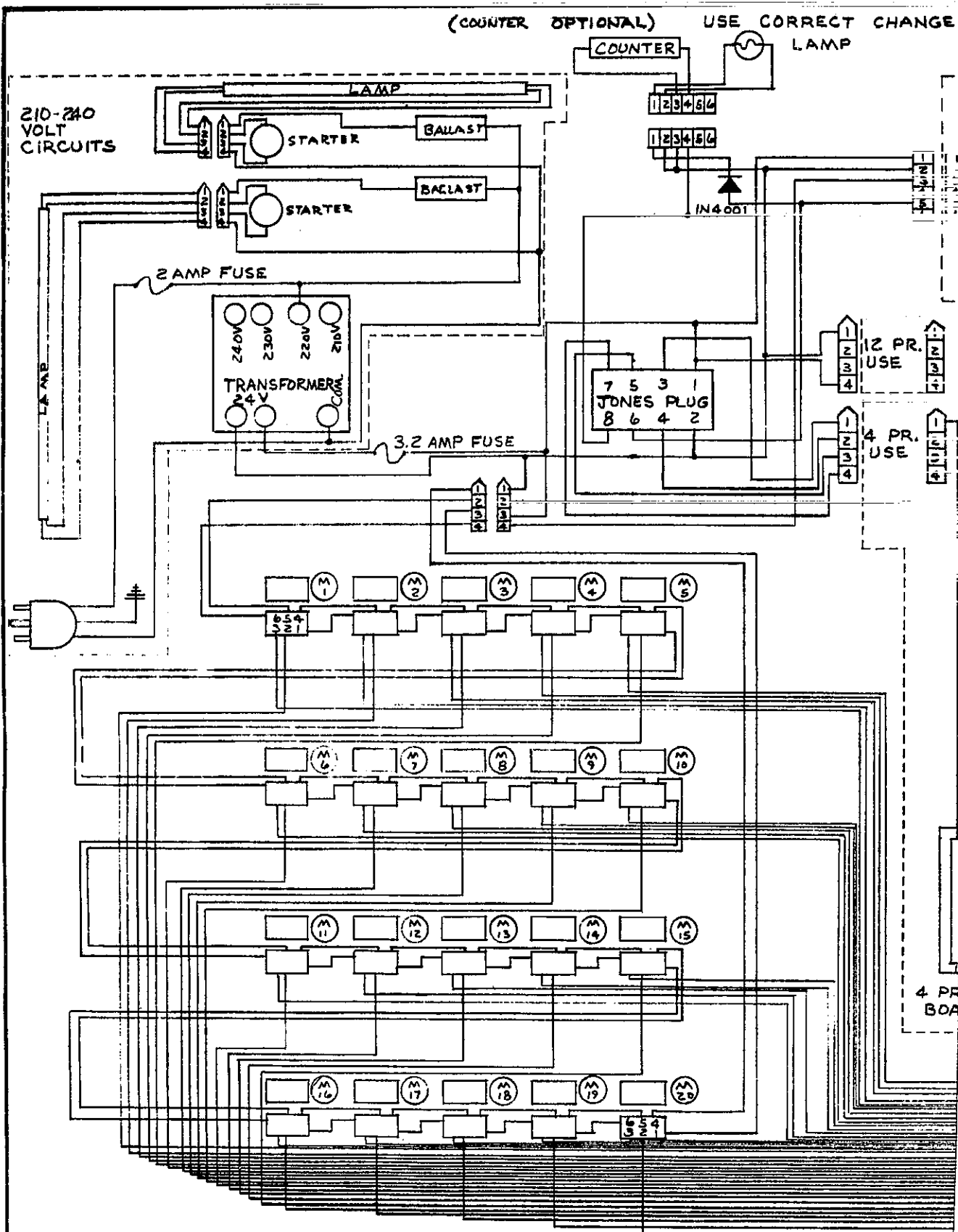
PART NUMBER	NOMENCLATURE
729.....	Rivet - Pop 125D x 232
1642.....	Rivet - Pop 125D x 419
1715.....	Screw - SEMS Pan #8
2614.....	Screw - TP A Pan #8
1298.....	Screw TP AB Pan #8
289.....	Screw TP F Pan #8
286.....	Screw TP F Rnd #10
1868.....	Screw - TP Pan #8
13220.....	Screw - TP F Pan #8
11909.....	Screw - Mch. Pan #6
11521.....	Screw - SEMS - Trs #10
4737.....	Screw - 10-32 x 5/8
689.....	Screw - TP SF Hex #8
638.....	Screw - TP 23 Flt #8
318.....	Screw - TP 23 Hex 1/4
863.....	Screw - 23 Pan #4
11894.....	Screw - TP 23 Pan #8
2558.....	Shaft - Front Sprocket
1741.....	Shaft - Rear Sprocket
11009-02.....	Shell Asy - Vendo Beige
11009-06.....	Shell Asy - Sweden Beige
11009-07.....	Shell Asy - White
13420.....	Shell WA - W-15, White
5205.....	Skid Asy - Carton
801.....	Socket - Lamp Holder
1869.....	Spacer - Detent Spring
1745.....	Spacer - Detent Spring
5107-02.....	Spacer - Lock
827.....	Spacer - Reject Lever
1743.....	Spring - Detent
84.....	Spring - Extn. 1 3//
2563.....	Sprocket - Rear
2565.....	Sprocket - Front
2607.....	Starter - FS 25
545.....	Strap - Harness
3566.....	Stripping - Del. Compt.
810-00.....	Stripping - Neoprene
11808.....	Support - Cicuit Board
5209.....	Support - Packing
11056.....	Switch - Selector 15 4 P
12287-01.....	Tab - Stripper
11245-01.....	Track Asy - Lower
11032-01.....	Track WA - Upper
11504.....	Transformer - 100 VA
4988-01.....	Trim - Delivery Compartment
4988-02.....	Trim - Delivery Compartment
1948-00.....	Trim - Delivery Compartment
1948-01.....	Trim - Delivery Compartment



PART NUMBER

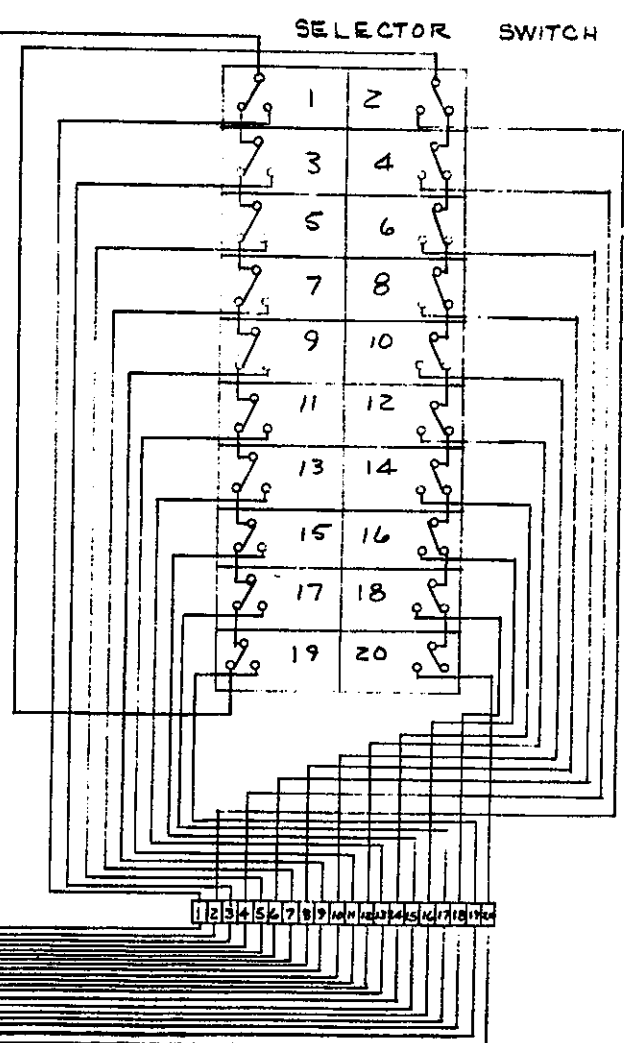
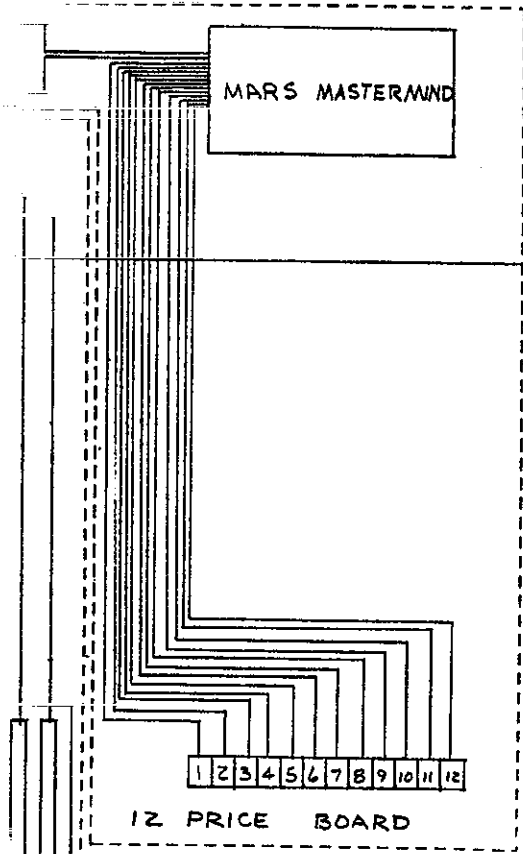
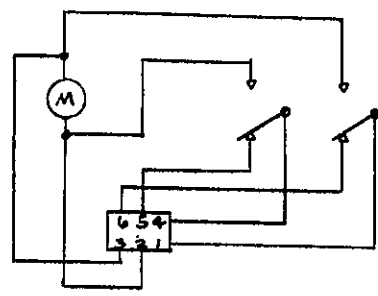
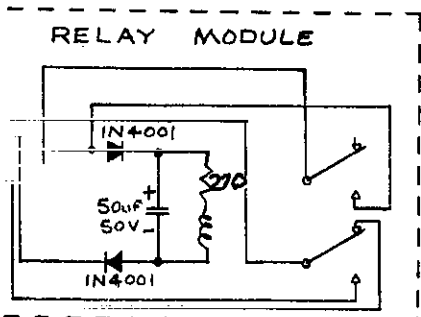
NOMENCLATURE

360-10.....Tumbler - 4153 MSU 10
351-01.....Tumbler - 4152 MSU 1
351-48.....Tumbler - MSU - 48
11530-01.....Tumbler - C2A
11531-01.....Tumbler - C2A
366.....Washer - Int. Th. 3/4
266.....Washer - Int. Th. #8
8504.....Washer - Nat. Lock
5364.....Washer - Plain #10
534.....Wheel - Roller Skate
5365.....Wire - Ground



NOTE:
WHEN APPLYING TO W-15, DISR
AND BUTTONS 16 THRU 20 CON
REF: 15#20 SELECTION 4#12 PRICE


#	PRODUCTION RELEASE	1091	DC	12-14-78	R
REV.	DESCRIPTION	S.O. NO.	BY	DATE	THR



PRICE WIRES
PIN 3 - MOTOR 1 THRU 20

PIN 2 - MOTORS 1 THRU 20 TO SEL. SW. 1 THRU 20 RESPECTIVELY.

MOTORS 16 THRU 20
(OR SWITCH).
MACHINE.

 Polyvend CONWAY, ARKANSAS		SCALE: NONE	
PART NAME: SCHEMATIC		DRAWN: 12-14-78 D.C.	
MATERIAL: #		CHECKED: Thom 12/10	
FINISH: #		UNSPECIFIED TOLERANCES- FRACTIONS: ± # DECIMALS: ± # ANGLES: ± #	
SHEAR SIZE: #		PART NO. C-12778	



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Conway, Ark. 72032 USA
Phone (501) 327-1301

Polyvend INT.

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