



Polyvend^{INC.}
CONWAY, ARKANSAS

SERVICE MANUAL

MODEL CSV-15 FOUR PRICE

AUTOMATIC RACK MERCHANDISER

GENERAL

The Four Price CSV-15 Polyvend automatic rack merchandiser has been developed as a part of the cooperative service vending program. Each of 15 independent dispensing units may be activated by push button after credit has been established in the coin mechanism.

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

All products are sold at one of four pre-set price levels as determined by the coin changer and a price selection terminal board.

SPECIFICATIONS

OVERALL DIMENSIONS:

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

WEIGHT:

Shipping.....483 pounds

CAPACITY:

Candy (cigarettes or gum).....132 pieces
Chips.....90 pieces
Total.....222 pieces

ELECTRICAL:

Power Source.....115 VAC
Internal Power.....24 VAC
Current.....2 AMP

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



PRODUCT LOADING

All product loading of the CSV-15 is accomplished from the front. Using one of the two keys provided, open the door to the product loading compartment. There are two versions of the dispensers.

First to be considered is the wedge type bag 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.

To load, release the latch on each dispenser as shown in FIGURE 4 and pull forward until the slide hits the stop. Each bag is now inserted into a wedge assembly as shown in FIGURE 2-A. 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. Release products by pressing lever as in 2-B.

To load the candy module, release the latch and pull module slide forward to stop. 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 3).

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

fig. 2

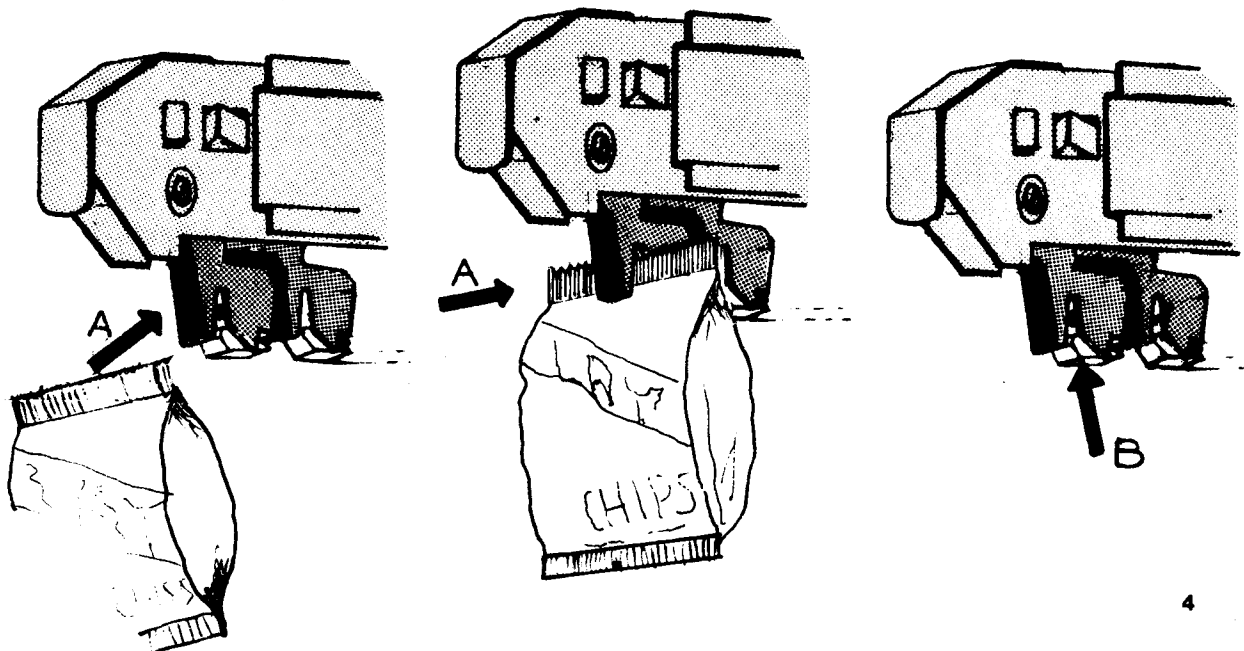


fig.
3

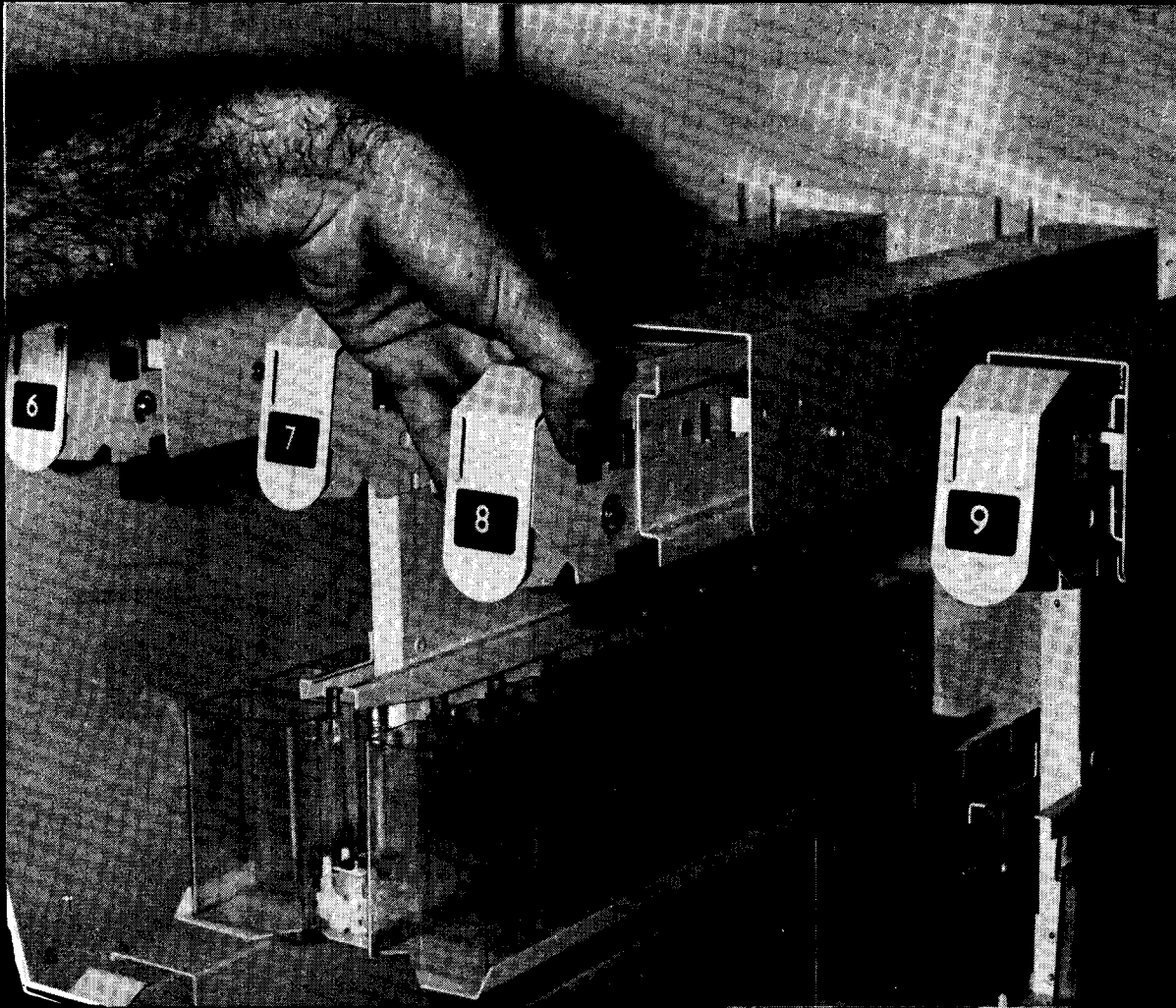


fig.
4

fig.
3

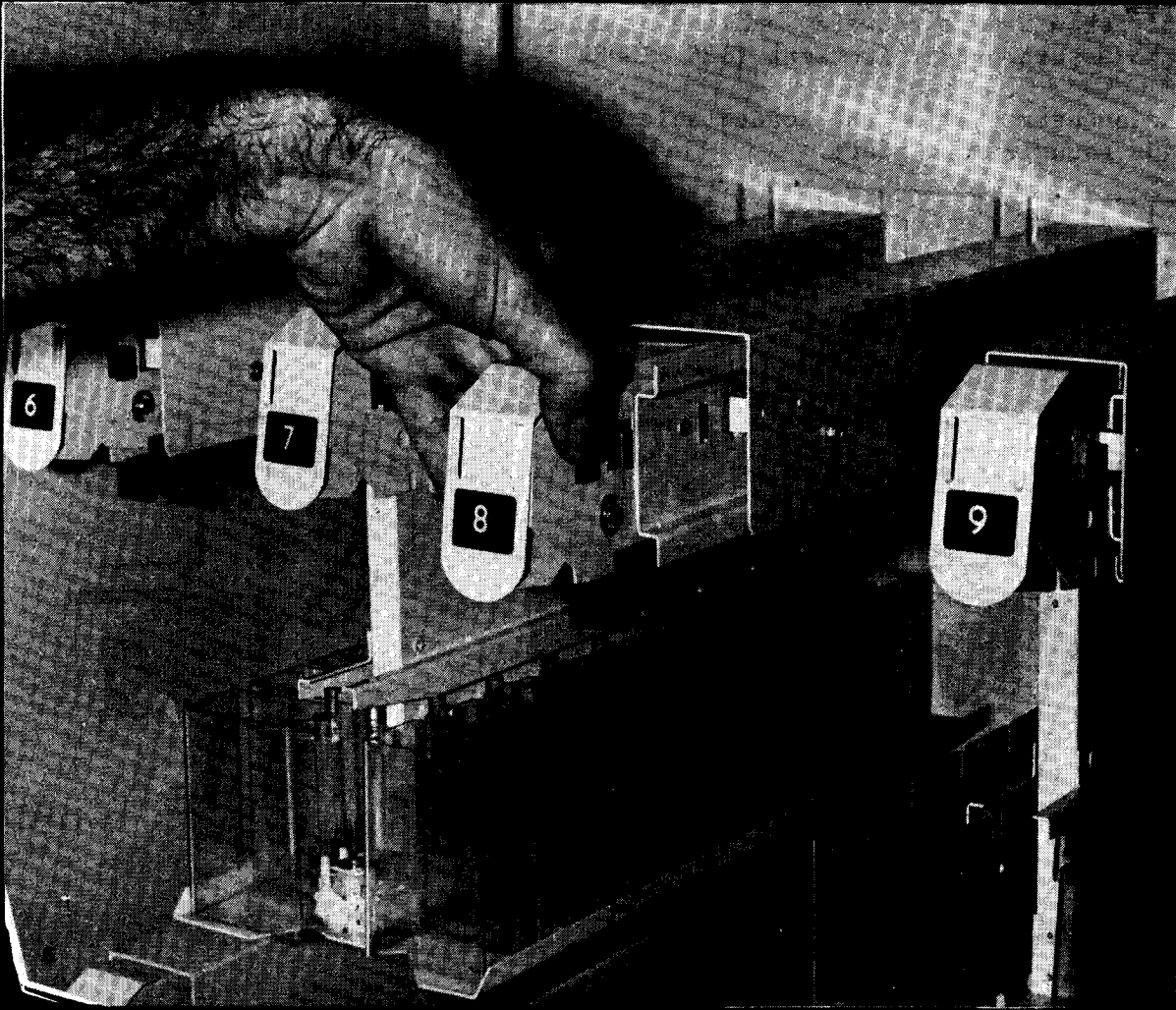


fig.
4



STORAGE COMPARTMENT

The storage compartment (FIGURE 5) may be used for storing extra products, spare parts or dispensers. It is a versatile compartment to be used as each operator chooses. This compartment is located in the bottom of the CSV-15 and may be opened with the same key that opens the product loading door.

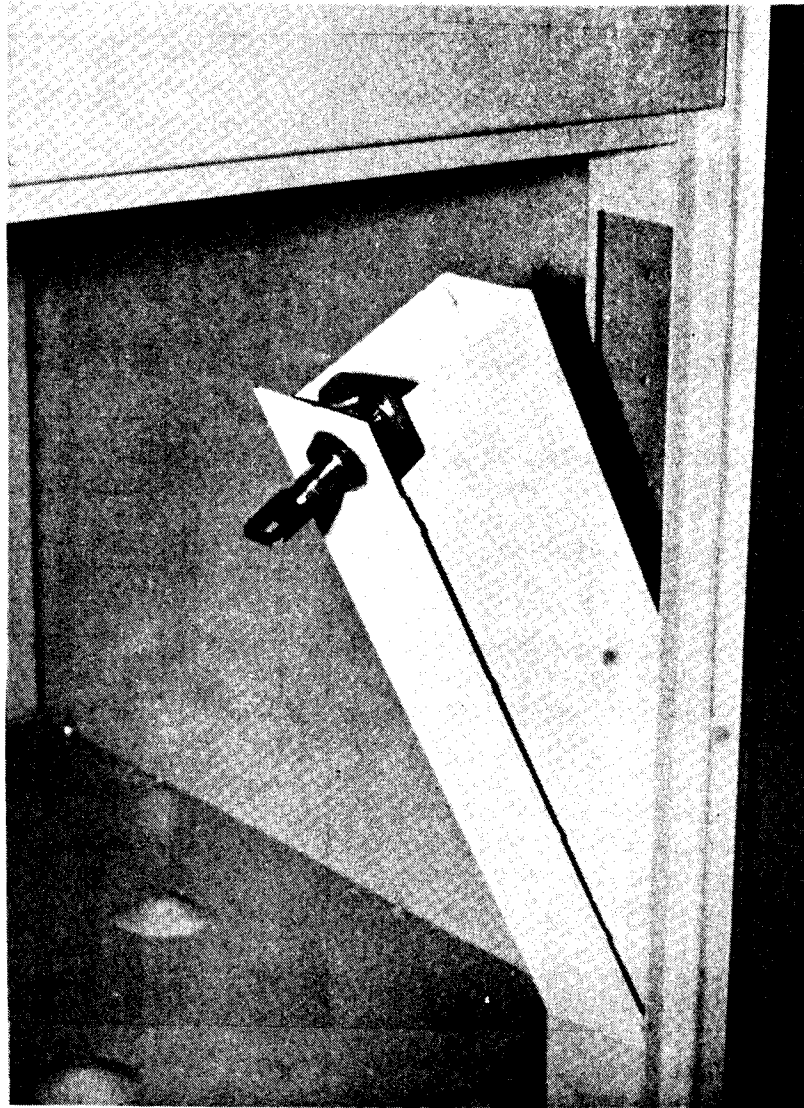


fig.5

COIN COLLECTION

The coin bank is located in the storage compartment in the right-hand corner as shown in FIGURE 5. If a locking coin bank has been ordered with the machine, the second key supplied will be used to open this lock. Insert the key, press in and rotate $\frac{1}{4}$ turn counterclockwise to unlock the bank. Allow the top of the bank to tilt to the left until it can be lifted out. Remove the coins and replace by reversing the procedure.

OPERATION

The CSV-15 Four Price Automatic Rack Merchandiser is operated as shown in FIGURE 6.

- A-Depositing money in the coin mechanism causes the vend circuit(s) to be completed in the coin mechanism. The ones completed are determined by the price setting and the amount of money deposited.
- B-Completing these (1 to 4) circuits also establishes circuits to the corresponding plugged motor leads at the price selection terminal board.
- C-The selected dispensing motor is now actuated by pressing of its respective selector switch. If there is sufficient credit, the selected motor will start to turn.
- D-As the motor turns, it breaks the motor ladder circuit. Breaking this ladder circuit de-energizes the vend relays.
- E-When the vend relays are de-energized, the coin mechanism resets, giving change in accordance with the price of the merchandise selected.
- F-The dispenser motor rotates 180°, using a carryover circuit until one dispensing cycle is completed. At this point, the carryover circuit is broken and the ladder circuit is made again.

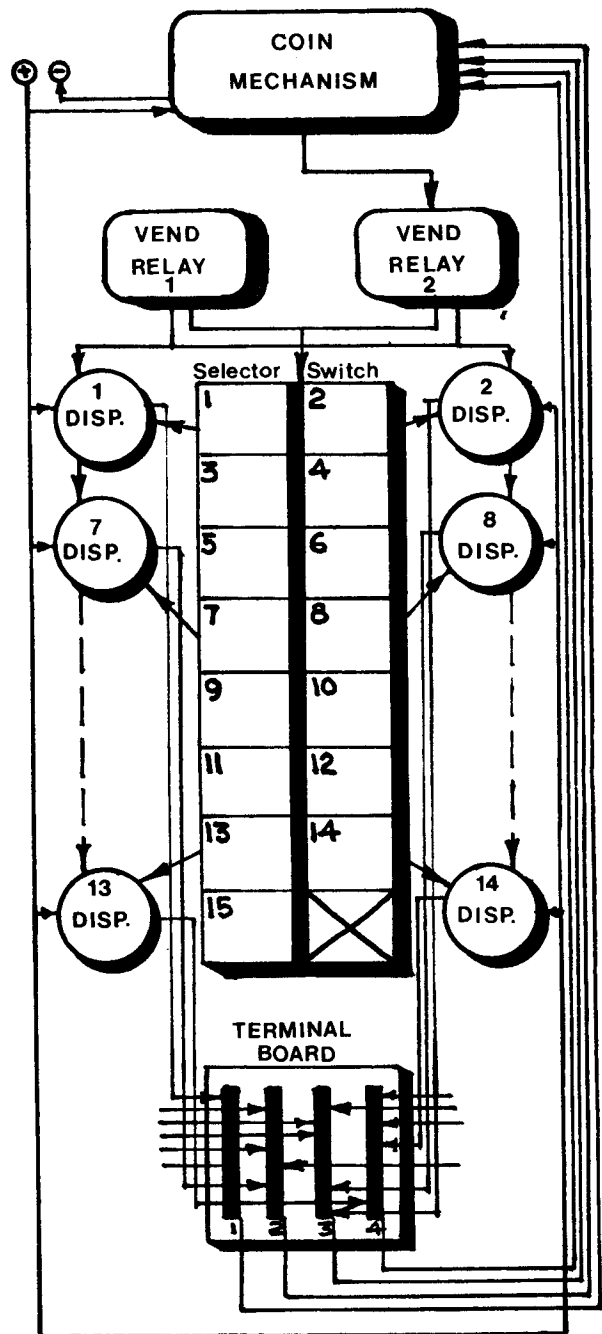


figure 6



DISPENSERS

FIGURE 7 illustrates the bag dispenser used in the CSV-15. It consists of:

- (1) Motor Assembly
- (2) Module Arm
- (3) Module chain and slide assembly

When a product selection is made (see section E of operation), an electric signal from the selector switch starts the motor, and a carry over circuit through the make-then-break contacts 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 FIGURE 2B). This upward movement releases the wedged grip maintained on the merchandise bag, and it 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 machine.

There is a particular type of bag made of glassine material that cannot be vended with the Polyvend chain. This is a

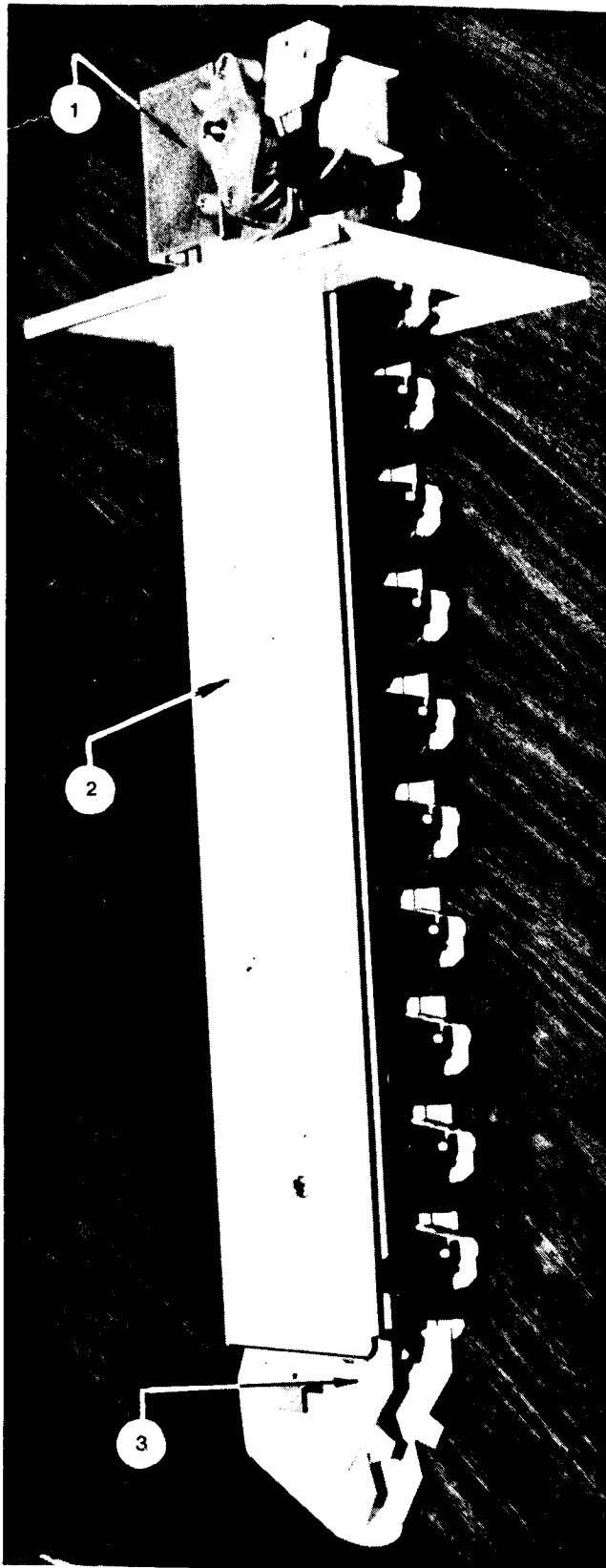


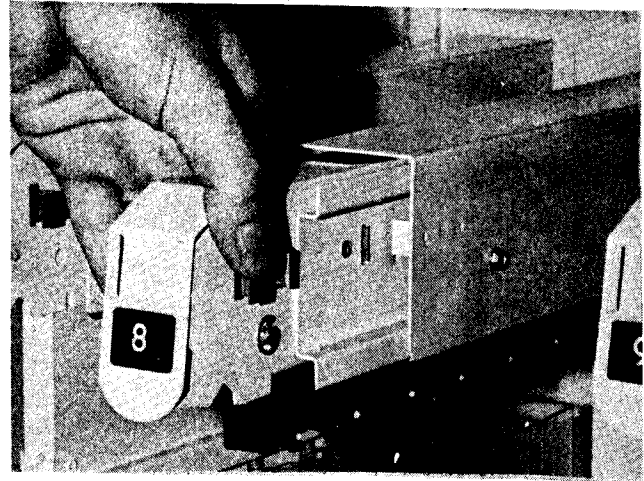
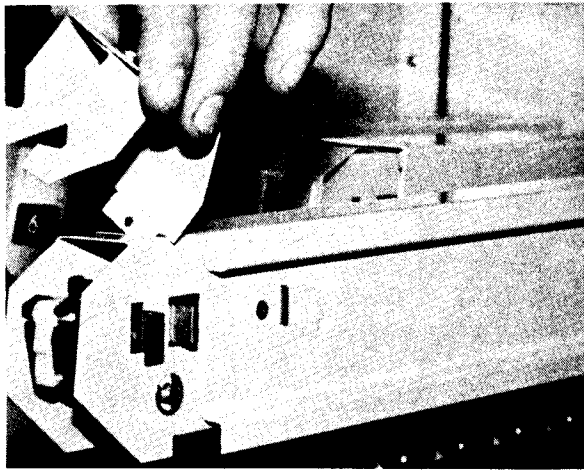
Figure 7



coated material that covers the metal cylinders with wax causing the bags to fall out freely.

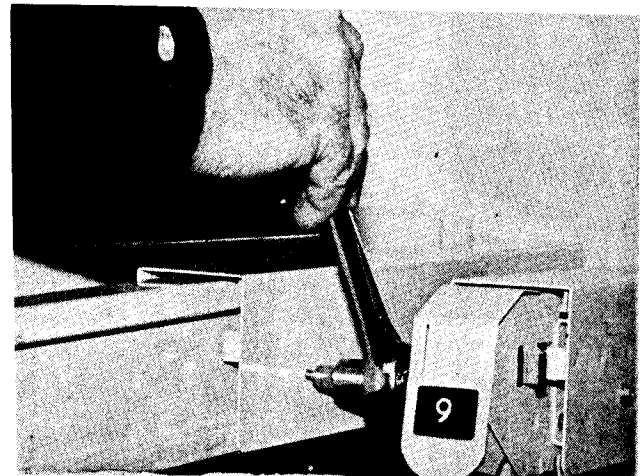
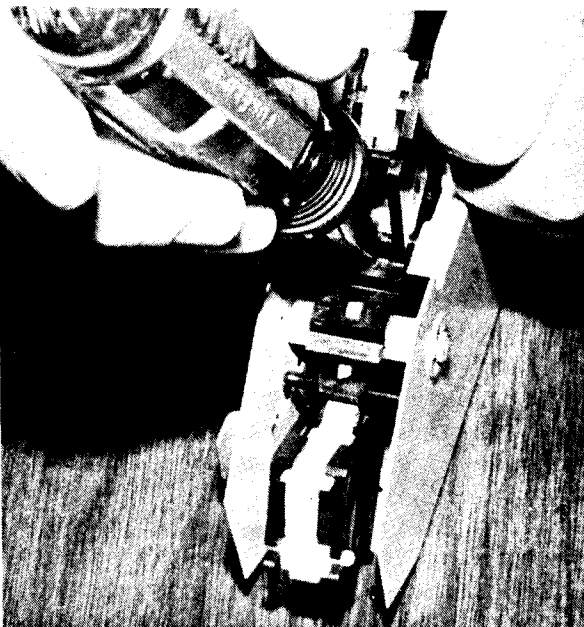
Occasionally, dispensing chains must be replaced or repaired. These chains are timed on installation and must be removed with care. FIGURE 8 shows the sequence of operations to accomplish this task.

- Release the latch on the dispenser and pull slide out to its stop. (FIGURE 8-A) →



- ← Remove the dispenser number and price cover. (FIGURE 8-B)

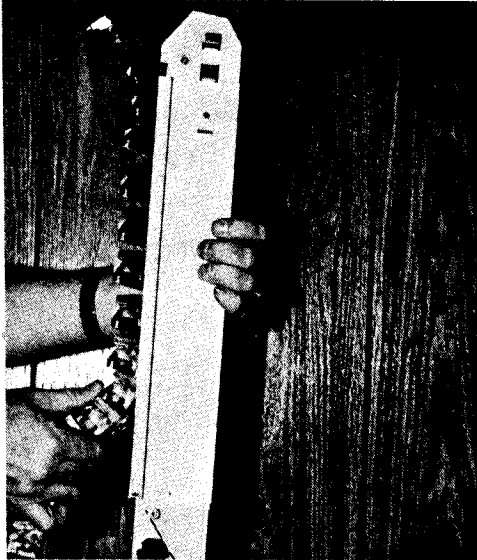
- Remove the screw from the side of the dispenser (FIGURE 8-C) which serves as the stop and pull slide from the machine. →



- ← Place slide upside down on a work surface and grasp the first wedge assembly on the front end of the slide. Using a screw driver, press inward and down as shown in (FIGURE 8-D). The hook will snap loose.

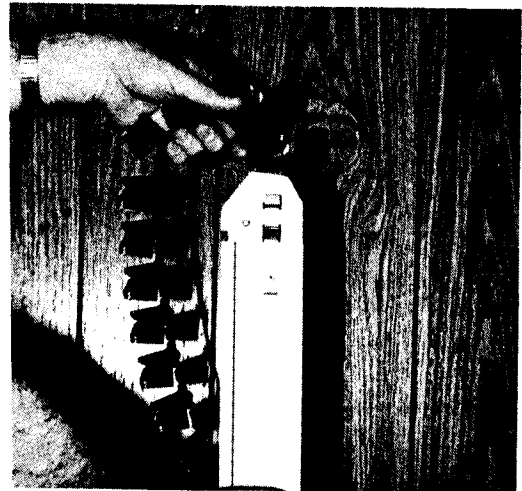
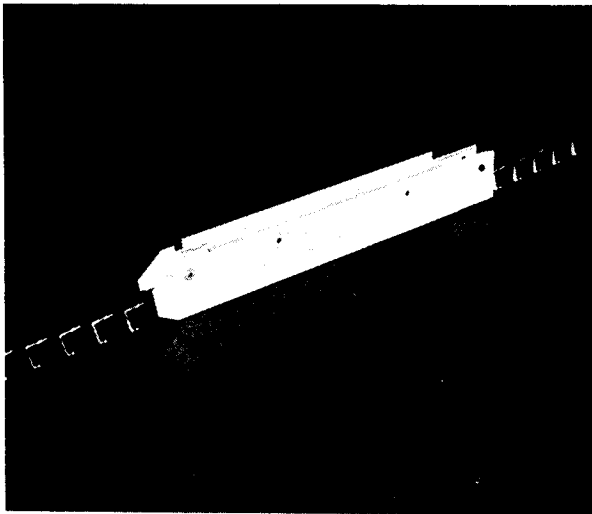


- Hold slide vertical with the front end up, and the chain will fall free of the inner portion of the slide (FIGURE 8-E).



- Still holding slide vertical, lift bottom of chain outward and away from the slide. Push upward. The chain should easily slide free. (FIGURE 8-F)

- To replace chain, hold it at the middle and drape it over the forward sprocket, while allowing one end to drop through the center of the slide. (CAUTION: The external links or wedge assemblies must have the black surfaces facing up.) (FIGURE 8-G)



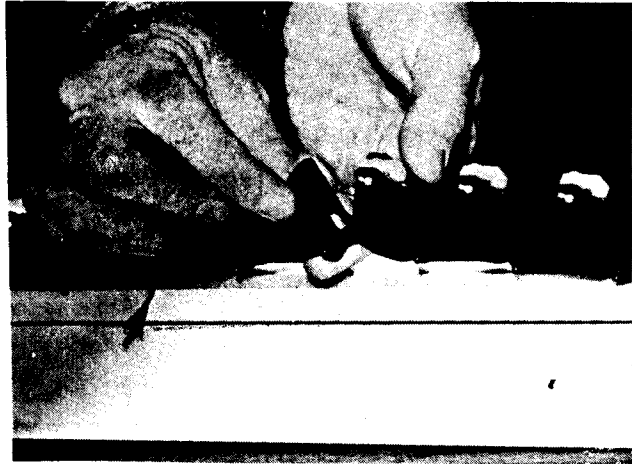
- Place the slide upside down on a work surface. Pull the chain through until equal lengths are extending from both ends of the slide (FIGURE 8-H).





- Fold the chain over the slide from both ends and snap together as shown in (FIGURE 8-I). Care must be taken NOT to stretch the links.

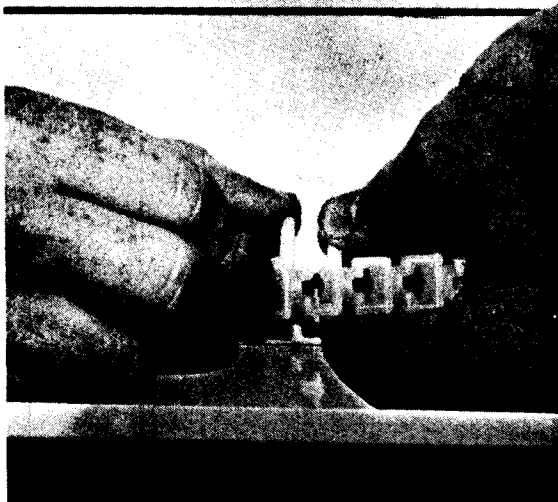
Observe that the timing is right. FIGURE 8-D shows the position of the black forward surface of the chain with respect to the slide when properly timed at arrows. If timing is right, manually pull the chain through in the direction of normal operation to engage support pins. (8-I arrow) →



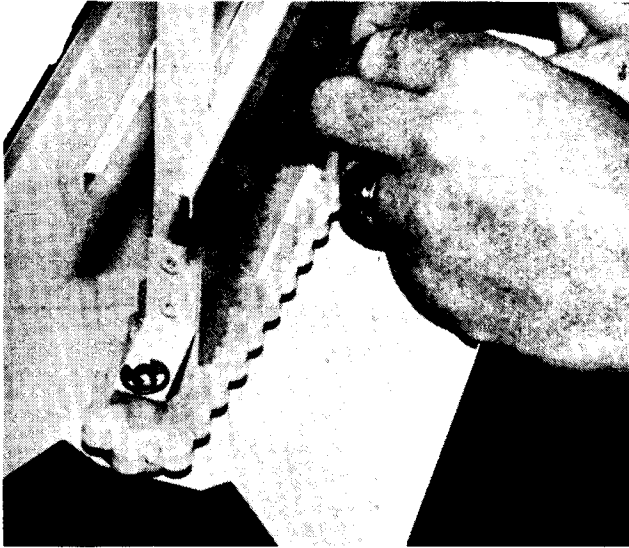
The slide may now be replaced in the CSV-15 and the stop screw reinstalled.

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

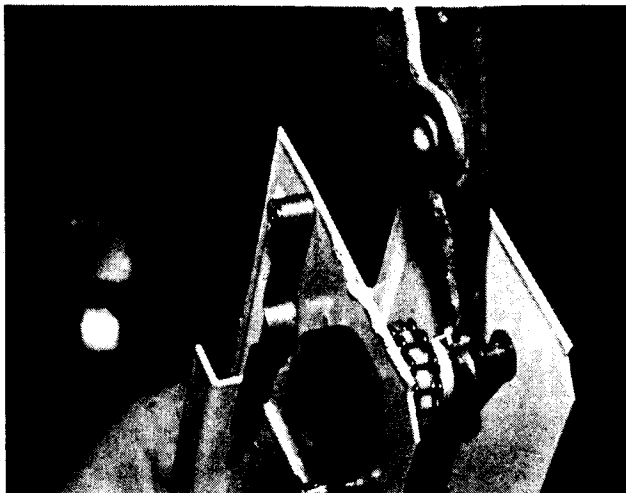
- To disassemble, first remove all dispensing cups by tilting the top of each cup toward the front of the module and at right angle to the plane of the conveyor chain. After tilting, unsnap the cup, lift it up and out. Repeat until all are removed. (SEE FIGURE 9-A) →



- ← After removing all cups, remove the conveyor chain (SEE FIGURE 9-B). Simply insert finger tip under one link and press inward on the next (FIGURE 9-B). The links will snap apart and the conveyor chain drops free.



- Removal of the copper colored ladder chain commences with the release of the detent lever spring on the side of the slide (FIGURE 9-D).



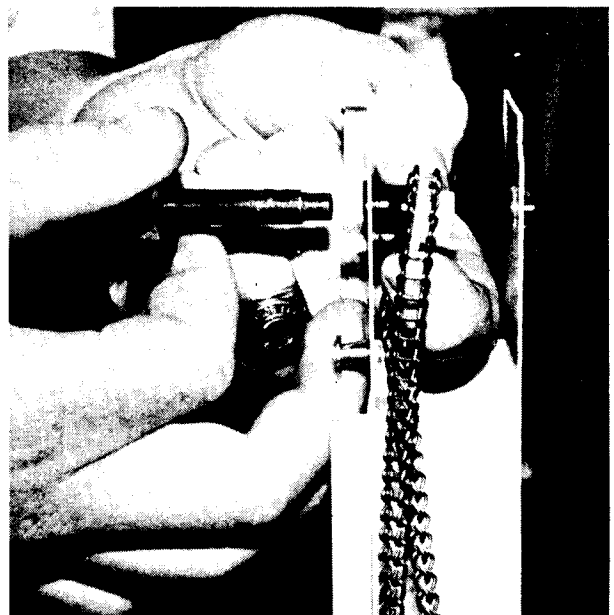
- The black plastic shaft can now be pulled from the side of the slide, dropping the sprocket and chain free (FIGURE 9-F).

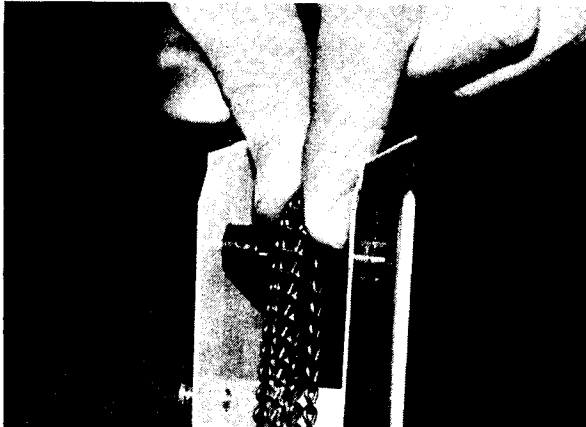


- ← Reinstall the conveyor chain, snapping it together and positioning it so that the cup holding pins are directly opposite each other on each side of the module to assure proper timing (FIGURE 9-C).



- ← Next, using E-ring pliers remove the spring steel snap ring holding the slide, sprocket and shaft together (FIGURE 9-E).

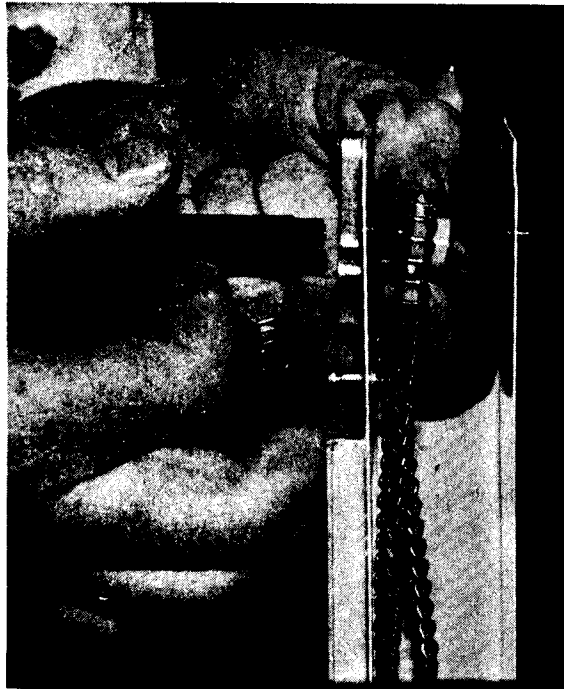




- The new ladder chain can now be installed. First, place it over the conveyor drive shaft sprocket and pull toward the rear of the slide, moving $\frac{1}{4}$ turn counterclockwise in the process (FIGURE 9-G).



- Holding the chain in the $\frac{1}{4}$ turn position, insert the black drive shaft through the black grommet and sprocket. Position snap ring over the shaft and complete insertion into opposite side of slide. Center the sprocket and position snap ring retainer on the shaft. Take care to check for proper timing of the conveyor chain. (The conveyor chain is properly timed when the cup holding pins on the chain are directly opposite each other on each side of the module and the black sprocket shaft is in the detent position (FIGURE 9-H).



- Reinstall all cups by reversing the technique shown in FIGURE 9-A.
- Reinstall the candy module in the dispenser and the machine, tightening the stop screw in the process. It is now ready to operate.

The dispenser motor assembly can be removed by withdrawing two phillips head screws at the bottom of the assembly, lowering it slightly and pulling it out. Care must be exercised to protect the pigtail connector wiring and unplug it as you remove the assembly. Reverse the procedure for re-installation.

WEDGE ASSEMBLY REPAIR

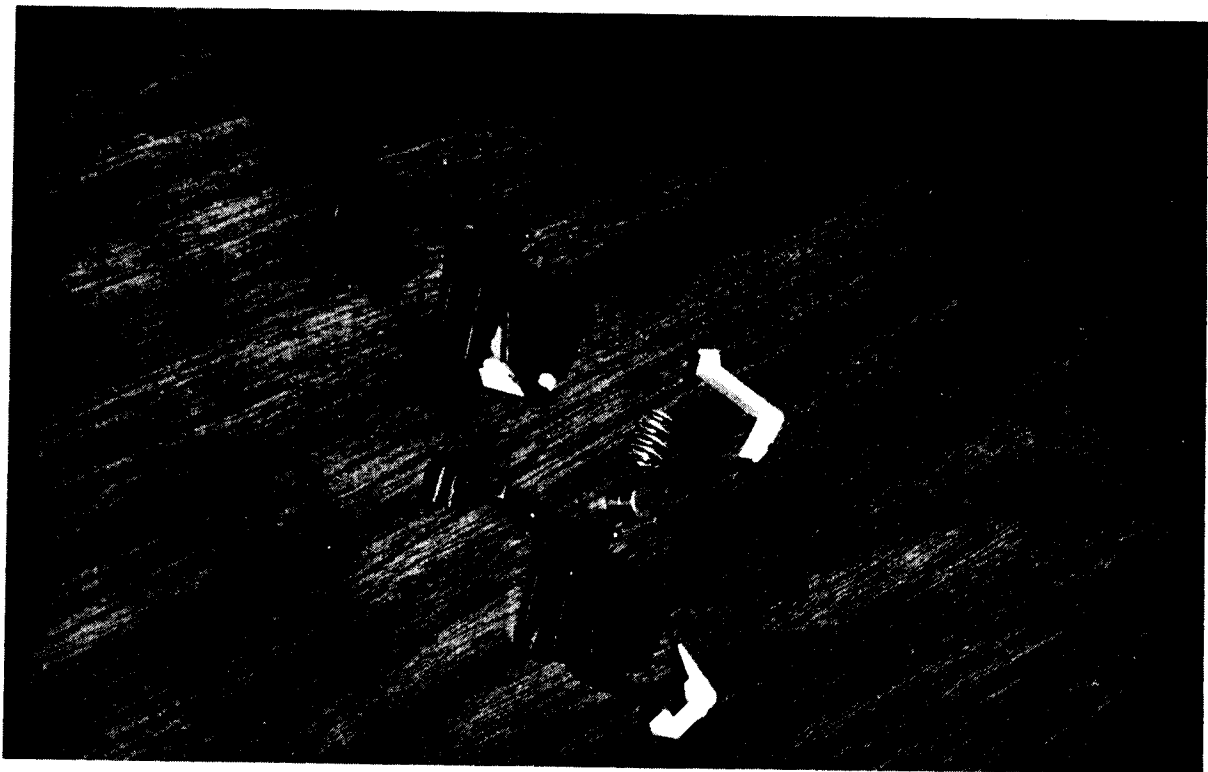
To repair the assembly and replace damaged components, remove the chain and snap out the damaged link.

This link is made up of the basic chain housing segment (Black), a cylinder lifter (Ivory), a slide (Ivory), two cylindrical wedge components and a compression spring. (FIGURE 10)

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.

All that remains is to reassemble using replacement parts as necessary. (Replacement parts are usually the chain housing segment or the cylinder lifter).

fig.10





ELECTRICAL

The CSV-15 Four Price Automatic Rack Merchandiser operates from a primary power source of 115 volts, 60 cycle A.C. reduced through a transformer to a secondary source of 24 to 30 volts, 60 cycle A.C. which supplies power to the entire machine with the exception of the fluorescent lighting. The electrical schematic, (FIGURE 12) shows the entire system.

FIGURE 11 Item 1 shows the electrical control box located on the right-hand, inner side of the product compartment. Items 2 in this figure are the vend relays. If a vend relay fails, it is replaced by pulling the relay from its socket (Item 3) and plugging in a new one.

Lighting for the CSV-15 is supplied by two 15 watt fluorescent lamps located on the left side and top of the product compartment. In FIGURE 11, Items 4 are the replaceable starters and Items 5 are the ballasts for the lights.

Item 6 of FIGURE 11 is the step down transformer for reducing the 115 VAC 60 Hertz to 24 VAC 60 Hertz. Caution: The 24 V side has a white lead as well as a 24 V identification. Caution should be observed. The opposite side and the related terminal board Item 8 beside the transformer have a full 115 VAC potential.

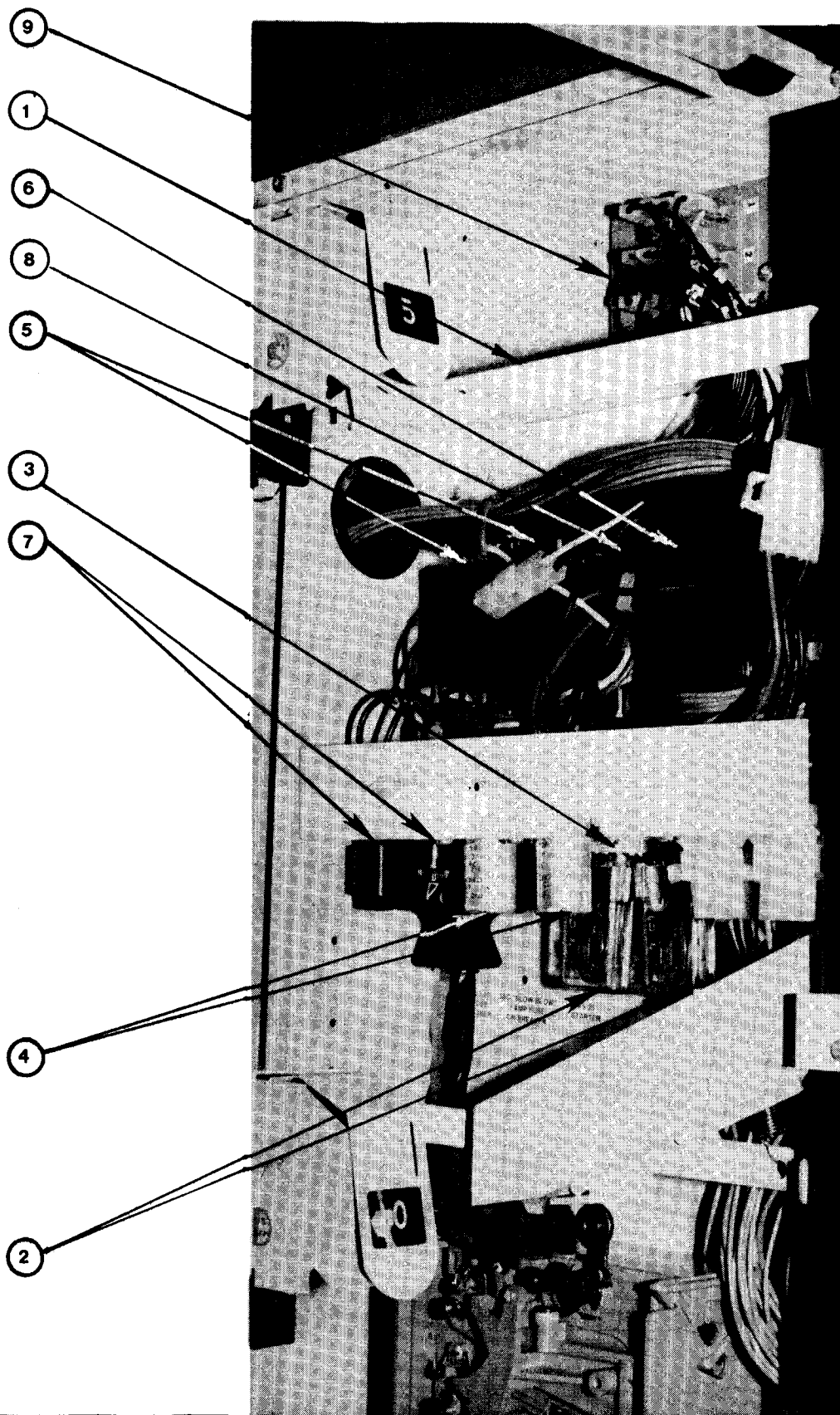
Items 7 are fuses. The fuses can be replaced as required by turning the cap on the bottom of the fuse holders clockwise until they fall free. The fuses can then be replaced.

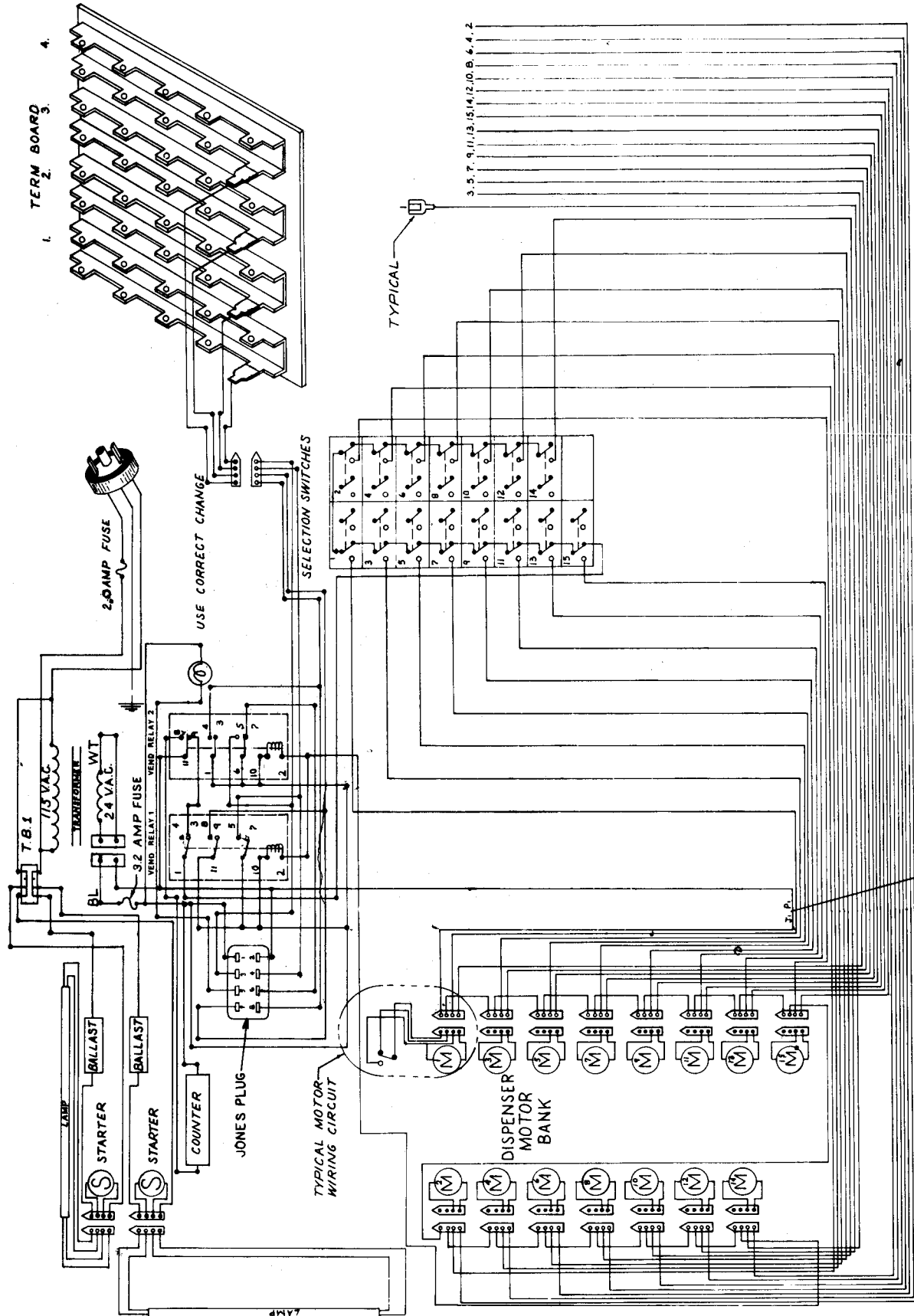
FIGURE 1 shows the price level selection method. A price selection terminal board (FIGURE 11 Item 9) located above the control box has 4 terminal strips which are identified as 1, 2, 3, and 4. 1 will normally be the lowest price established in the four price changer and increasing with 2 and 3 with 4 the highest price. By attaching the appropriately numbered terminal to the selected price level, a price for every dispenser is established.

Warning: All terminals must be connected to one of the terminal strips or the related dispenser will fail to work.

FIGURE 13 shows the entire control chassis and coin changer area side by side with the rear of the machine including motor assemblies and wiring harness for reference purposes.

figure 11





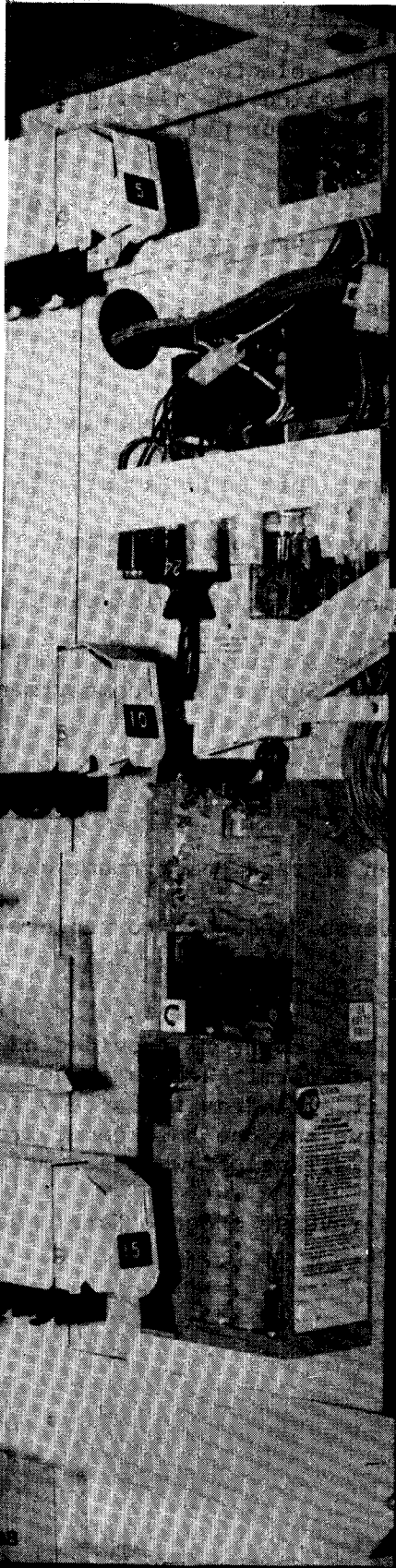
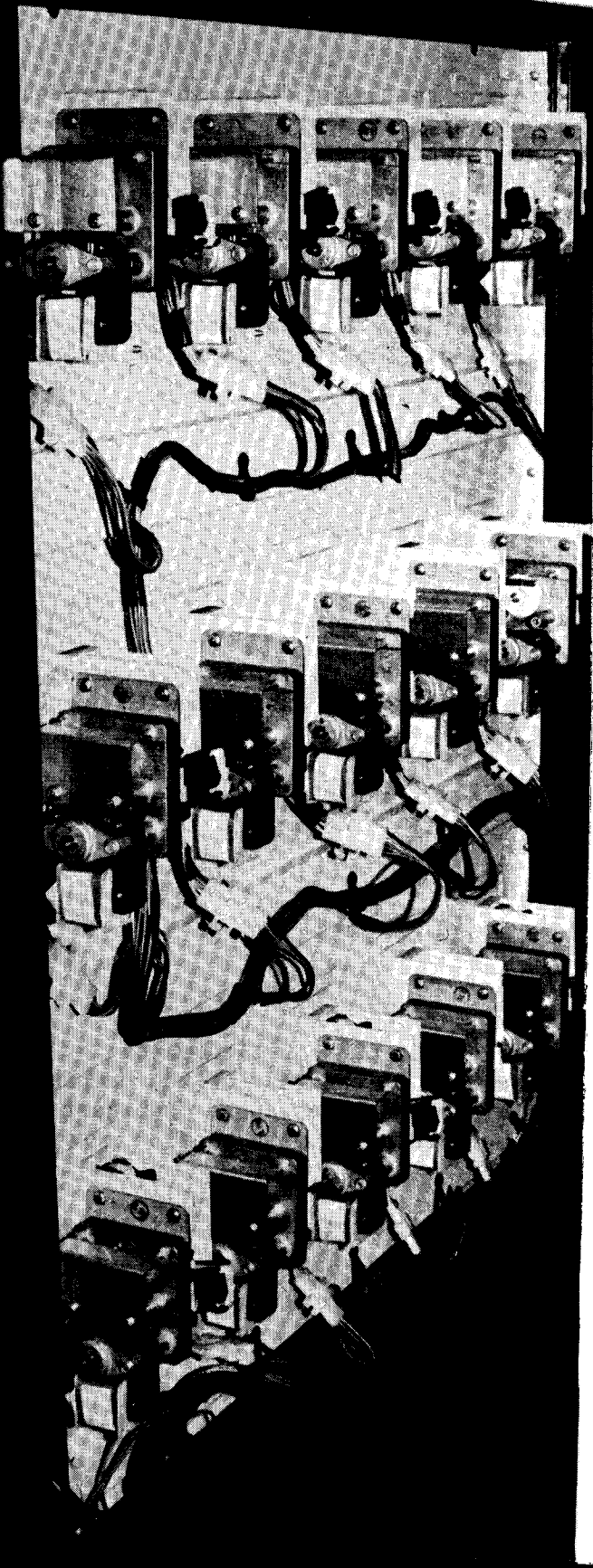
CSV - 15 FIGURE 12 ELECTRICAL SCHEMATIC



rear

figure 13

ELECTRICAL
controls





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 CSV-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.



CSV-15 TROUBLE SHOOTING

- **MACHINE WILL NOT ACCEPT COINS:** Remove acceptor/rejector to visually inspect 5¢/10¢ blocking fingers in coin changer.
 - 5¢/10¢ blocking fingers are magnetically retracted:
 - Be sure the machine is level.
 - Be sure the changer is properly installed.
 - Be sure blocking fingers are adjusted properly - not protruding into the acceptor/rejector.
 - Acceptor/rejector needs cleaning or adjustment, clean, repair, or replace.
 - 5¢/10¢ or 25¢ blocking fingers are not magnetically retracted:
 - Make sure machine is plugged into 115 volt outlet.
(Are fluorescent lamps on - check 2 amp fuse)
 - Check for credit on machine.
 - Make sure changer Jones Plug is securely connected.
 - Check manual payout on changer. If it does not operate, check red cap fuse. If blown, check for short or ground on 24 volt circuit. Transformer may be defective.
 - Check to see that each module arm is pushed in all the way so as not to lock a motor in cycle.
 - Check vend relay. This can be done by replacing relay with one that is known to be good. If blocking fingers are now retracted, relay was bad.
 - Manually pull #15 dispensing chain forward by grasping several segments with both hands. If it electrically picks up and completes one cycle, repeat for dispensing conveyor #1. If #1 fails to pick up electrically, the ladder circuit between #15 and #1 is broken. Locate break by testing each dispenser in order, beginning with #14, #13, #12, #11, #6, #7, #8, #9, #10, #5, #4, #3, #2, until the first dead position is found. This dead dispenser motor assembly, the previously tested assembly, or wiring between the two is faulty.
 - If a selection has a chain that is too snug to pull forward, remove back door to inspect. Check to see if a module slide has been pushed too far in, causing the motor to bind. Also, check to see if the rear door may have been pushed in against the chain causing it to bind.
 - If #15 and #1 completes cycle, coin changer is probably defective.



- MACHINE WILL ACCEPT COINS, BUT.....
 - No selection can be made.
 - Check for coins lodged in coin path of changer.
 - Check all connections.
 - Check wire continuity between vend relay and the series circuit starting at position #1 on the selector switch assembly.
 - Check for defective changer by substituting one known to be operable.
 - Only some selections can be made.
 - Changer must be a 24 volt single price unit.
 - Check for defective selector switch assembly. The selector switch is wired in series starting at position #1 and running down the left side thru the odd numbers. A jumper then connects to position #2 and the series circuit runs down the right side thru the even numbers. A defective selector switch is indicated when a sequence of selections in this series do not operate.

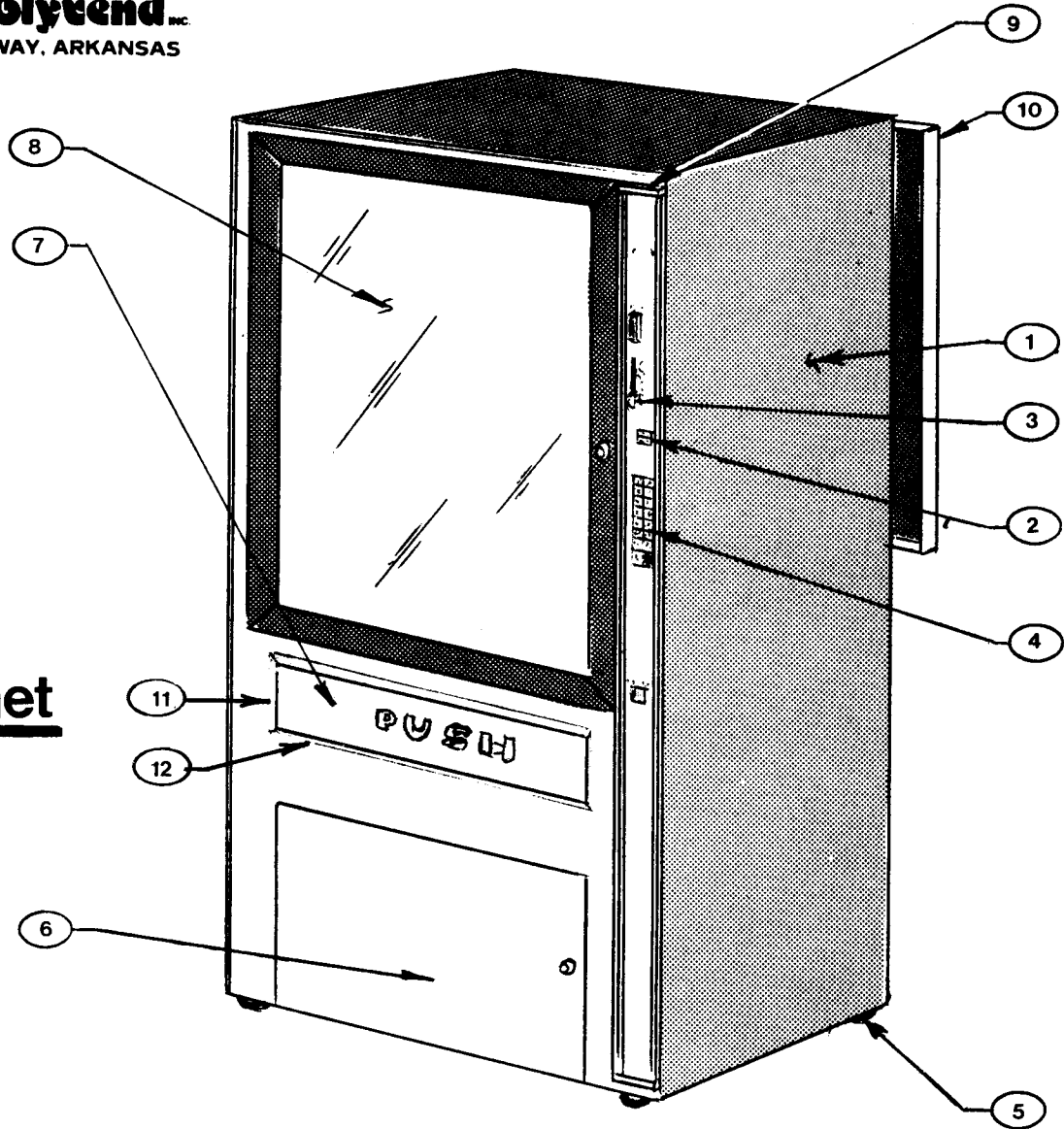
EXAMPLE: Selection #1, #3, #5, and #7 can be made but the remaining selections can not. The selector switch is defective between positions #7 and #9.

- MACHINE WILL ACCEPT CERTAIN COINS BUT NOT OTHERS....
 - Will not accept Quarters.
 - Check to see if coin tubes have sufficient coins to retract 25¢ blocking finger.
 - If coin tubes are full and finger is not retracted, check for loose connection, burned out electromagnetic coil, or defective tube switch.
 - Check to see if the 25¢ blocking finger is adjusted so that when magnetically pulled in, the tip is clear of the rejector/acceptor.
 - If none of the above, clean, adjust, or replace, acceptor/rejector.
 - Will not accept nickles and dimes.
 - Check 5¢/10¢ blocking fingers.
 - If fingers are retracted, check to see if the fingers are adjusted so that when magnetically pulled in, the tips clear the rejector/acceptor.
 - If not the above; clean, adjust, or replace acceptor.
 - If not retracted, check for loose connection, or a burned out electromagnetic coil.



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Cabinet



INDEX

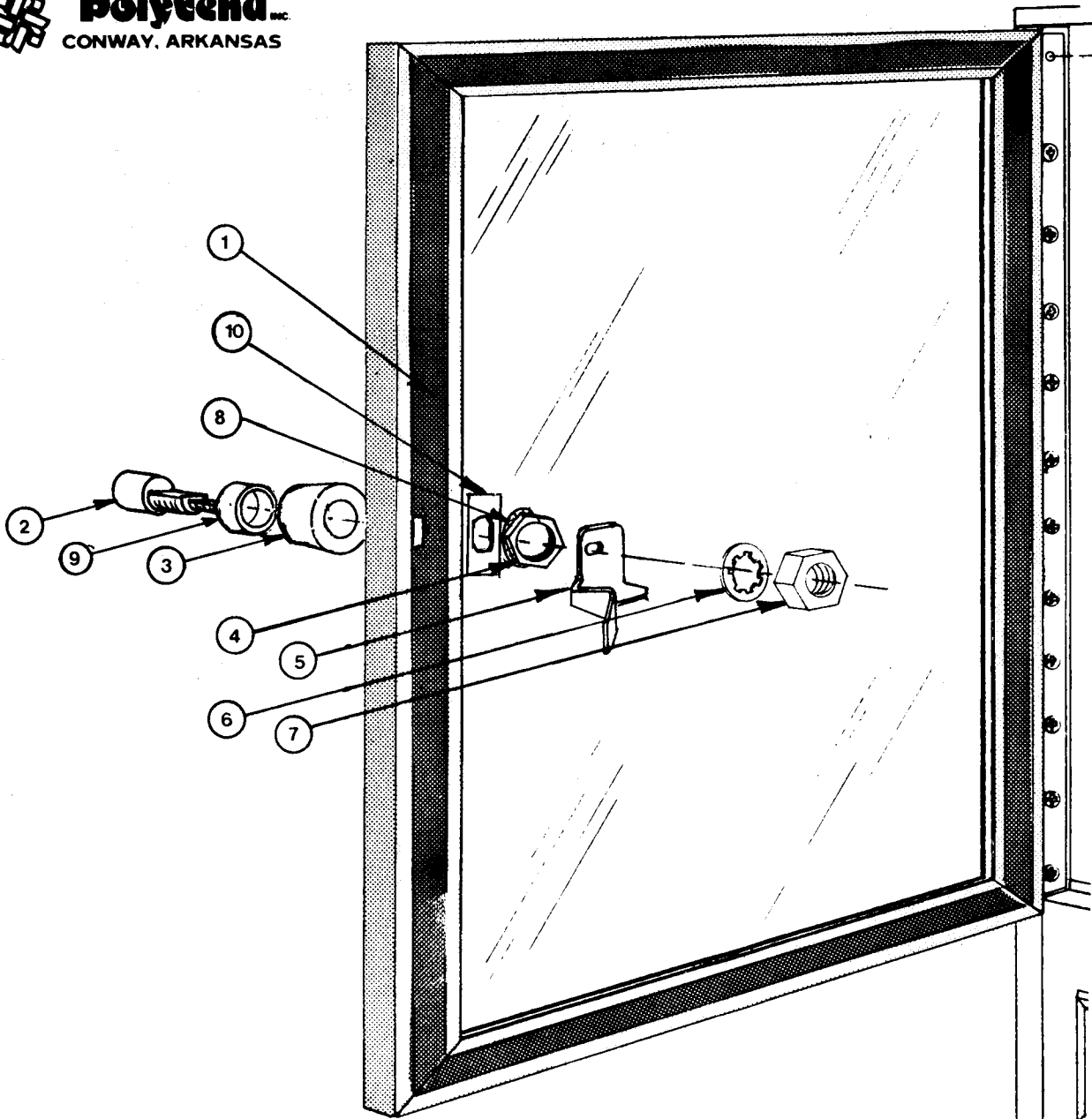
INDEX	PART NO.	NOMENCLATURE
1	R-11009-*	Outer Shell
2	A-1592	Indicator Light
3	C-11031	Reject Lever Assembly
4	C-11059	Selector Switch Assembly
5	A-295	Leg Equalizer
6	B-10960	Storage Compartment Door
7	A-11168	Delivery Compartment Assembly
8	D-10113-02	Product Loading Door
9	C-4960	Trim Cap
10	C-11027-*	Rear Door
11	A-4988-01	Trim Set
12	A-4988-02	Trim Set

* Specify color by the following dash numbers

-02	Vendo Beige
-03	Beige Enamel
-05	Pearlton Grey



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Product Loading Door

A-10113-02

Lock Assembly B-10114-10

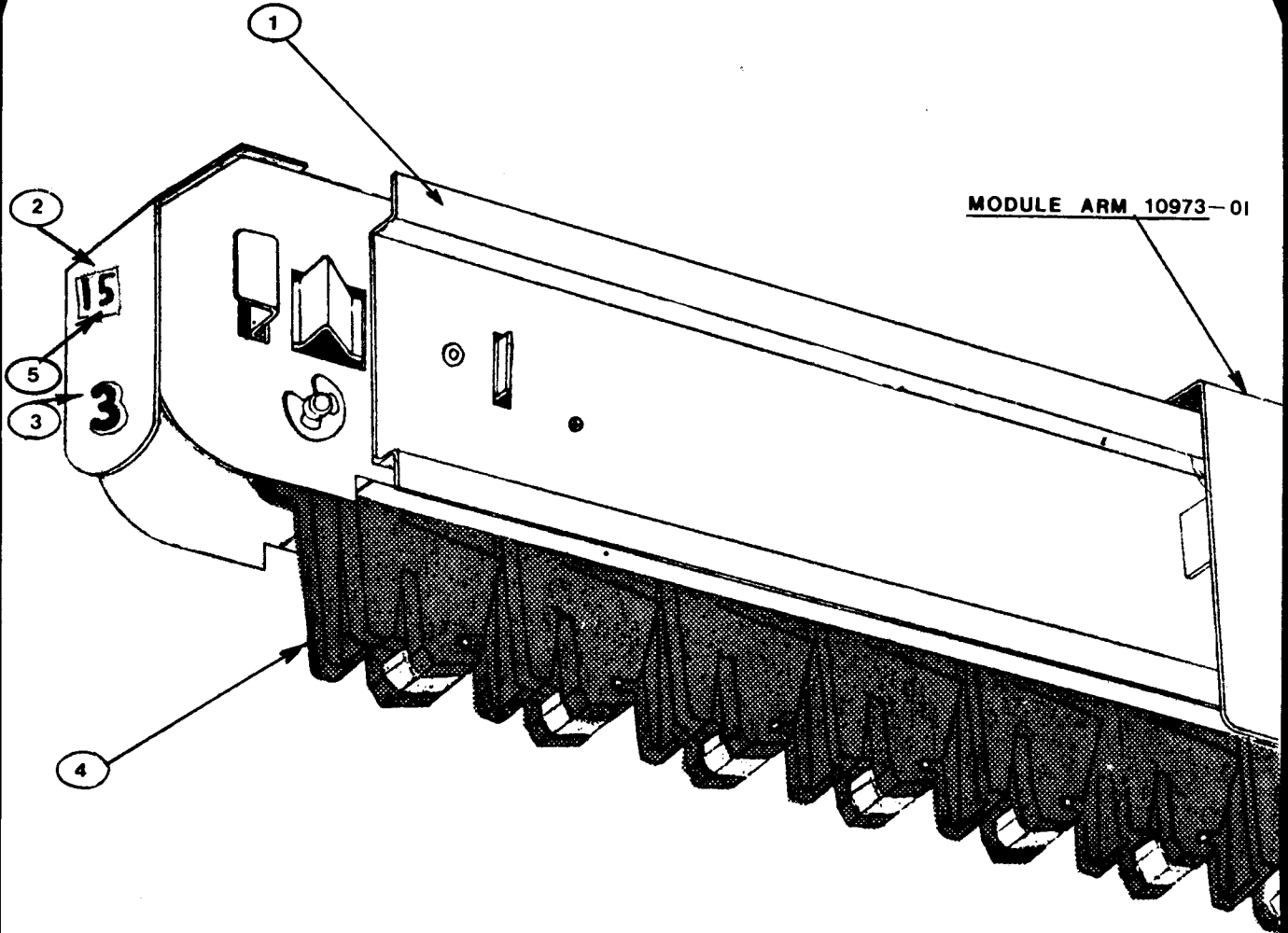
INDEX	PART NO.	NOMENCLATURE
1	A-10113-02	Product Loading Door
2	A-351 *	Ace 4152 Lock
3	A-575	Protection Collar For Flex-ace Lock
4	A-1788	Hex Nut
5	A-1531	Cam
6	A-357	Lockwasher
7	A-358	Hex Nut
8	A-366	Lockwasher
9	A-1676	Spacing collar
10	A-1250-02	Reinforcing Plate

* -Please Specify Key Number when ordering-

B-10114-10 Lock Assembly includes No. 2 thru 9



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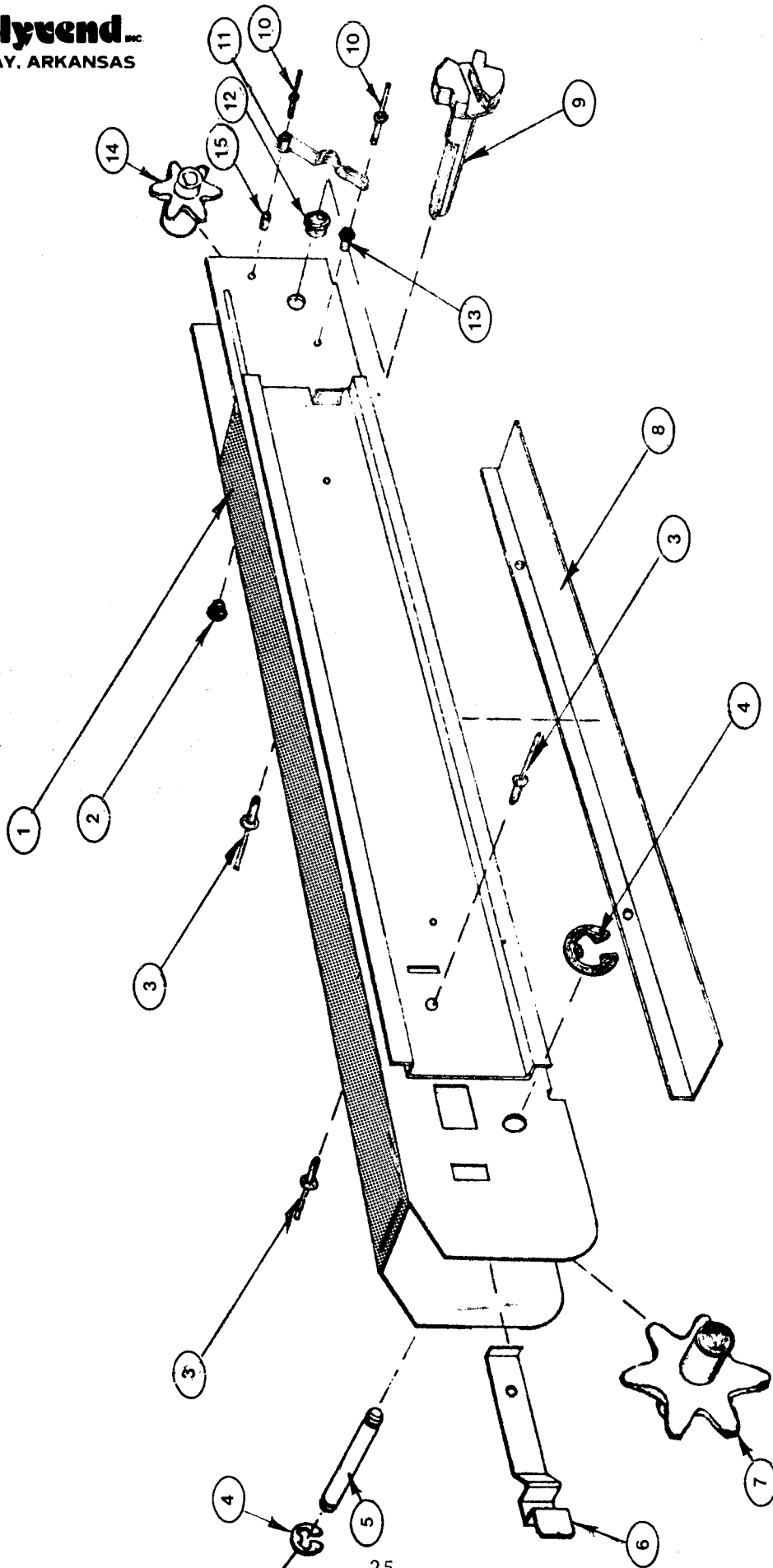


Rack Module Assembly B-10972-02

INDEX	PART NO.	DESCRIPTION
1	B-10971-01	Slide and Module Assembly
2	A-10410-01	Tab and Stripper Assembly
3	A-5213	Selection No. Decal (complete sets only)
4	B-10965	Chain Complete
5	A-5391-*	Price Decal
	* -02	15¢ Decal
	-03	20¢ Decal
	-04	25¢ Decal
	-05	30¢ Decal
	-06	35¢ Decal
	-07	40¢ Decal
	-08	45¢ Decal
	-09	50¢ Decal

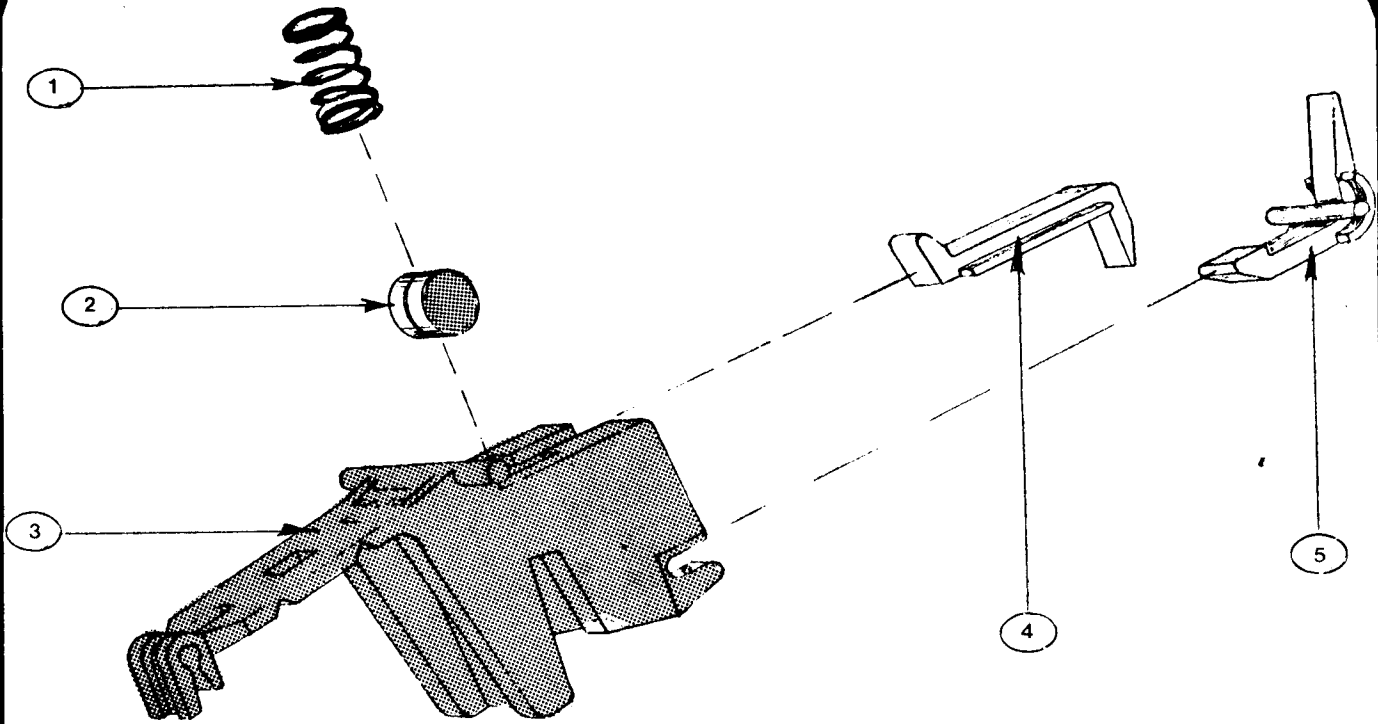


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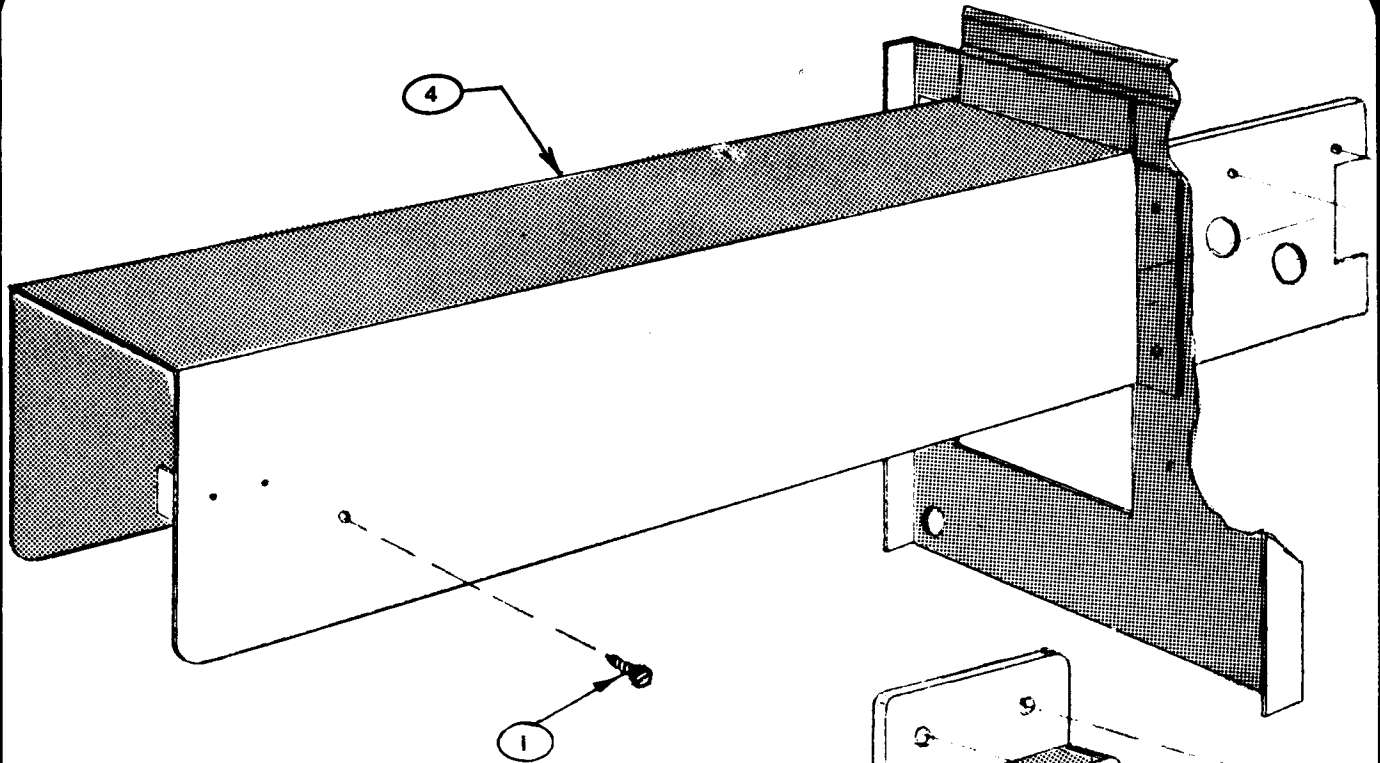
RACK MODULE - B-10972-02

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



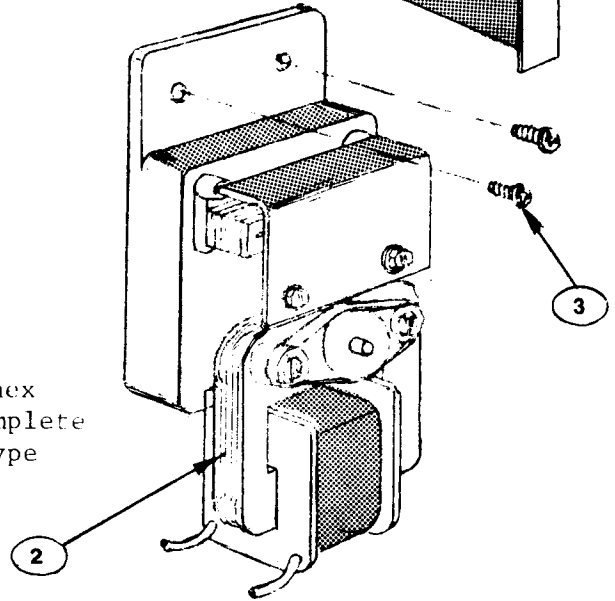
CHAIN SEGMENT ASSEMBLY A-10416

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



MODULE ARM COMPLETE A-10973-01

INDEX	PART NO.	DESCRIPTION
1	A-689	Screw 8 - 32 x 3/8 hex
2	C-10434	Motor Assembly - Complete
3	A-1868	Screw - #8-32 x 1/4 Type B Pan Hd Ph Recess ZPYD
4	C-10970-01	Module Arm Ass'y



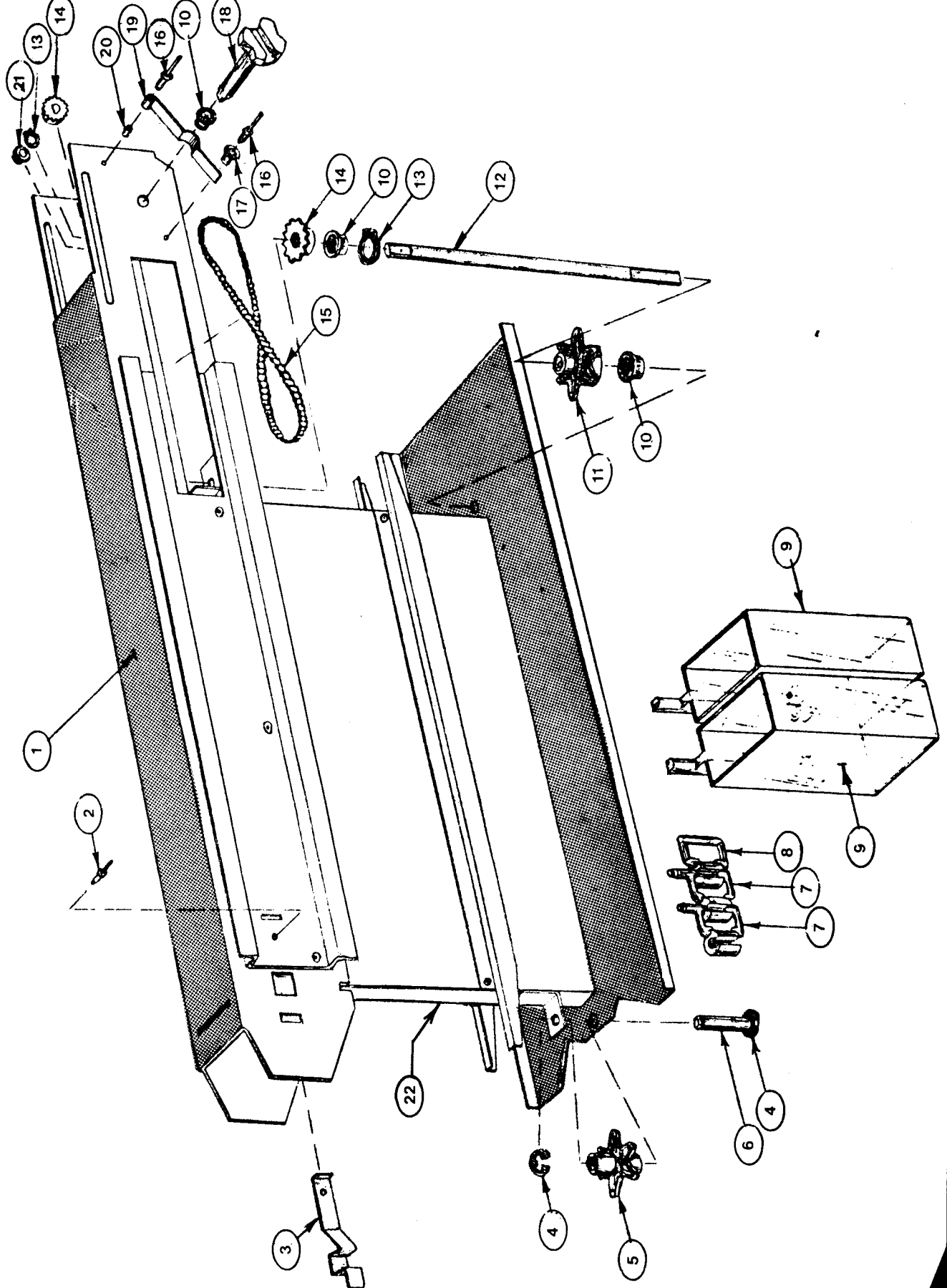


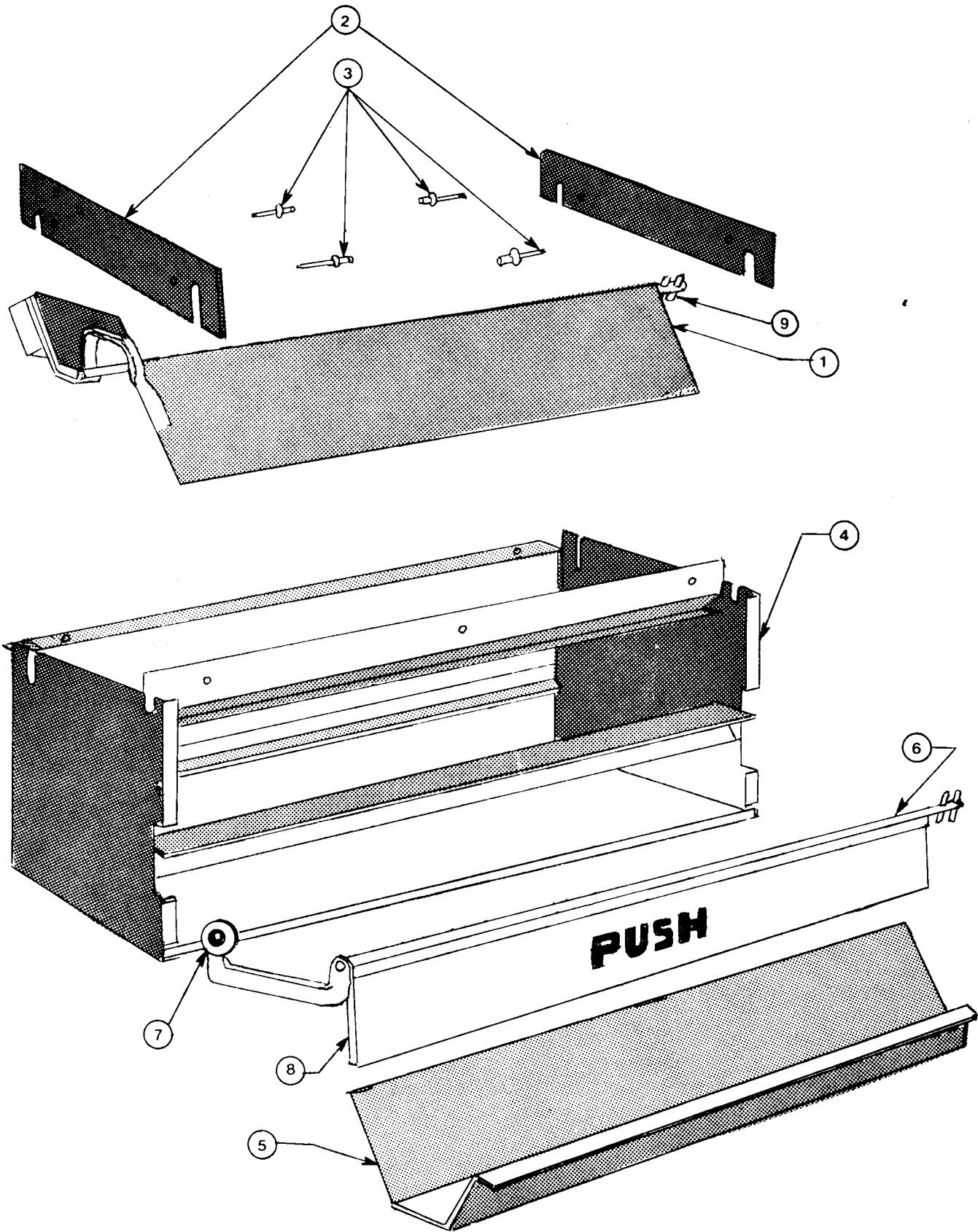
Candy Module B-11086-02 (with large cups)
and
Candy Module B-11060-02 (with small cups)

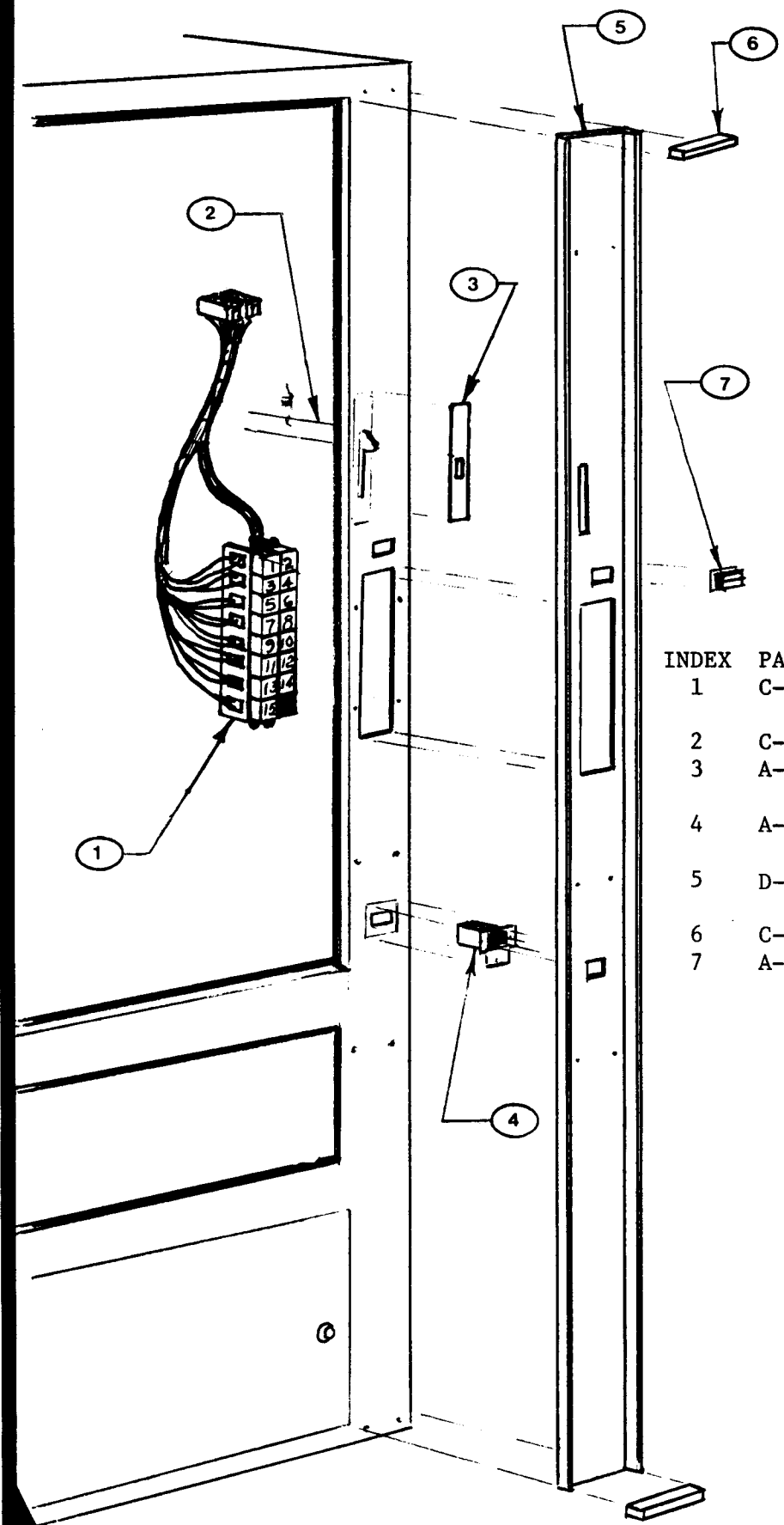
INDEX	Large Cup B-11086 PART NO.	Small Cup B-11060 PART NO.	DESCRIPTION
1	C-11053 -02	C-11053 -02	Candy Slide & Module
2	A-729	A-729	"Pop" Rivet SD-42-BS
3	A-1744	A-1744	Spring Lock
4	A-2559	A-2559	"E" Ring, Tru Arc
5	A-2565	A-2565	Front Sprocket
6	A-2558	A-2558	Front Sprocket Shaft
7	A-1945	A-1945	Cup Retainer Link
8	A-1946	A-1946	Plain Link
9	C-4886	C-1940	Dispensing Cup
10	A-1178	A-1178	Bearing Bushing
11	A-2563	A-2563	Rear Sprocket
12	A-1939	A-1939	Vertical Shaft
13	A-2225	A-2225	Gripring
14	A-1927	A-1927	Drive Sprocket
15	A-1928	A-1928	Ladder Chain
16	A-1642	A-1642	"Pop" Rivet SD-45-BS
17	A-1745	A-1745	Spacer - Detent Spring "(T)"
18	A-1741	A-1741	Rear Sprocket Shaft
19	A-1743	A-1743	Rear Sprocket Detent Spring
20	A-1869	A-1869	Spacer - Detent Spring (Plain)
21	A-730	A-730	Bushing
22	C-11085 -02	C-11061 -02	Divider and Bottom Assembly



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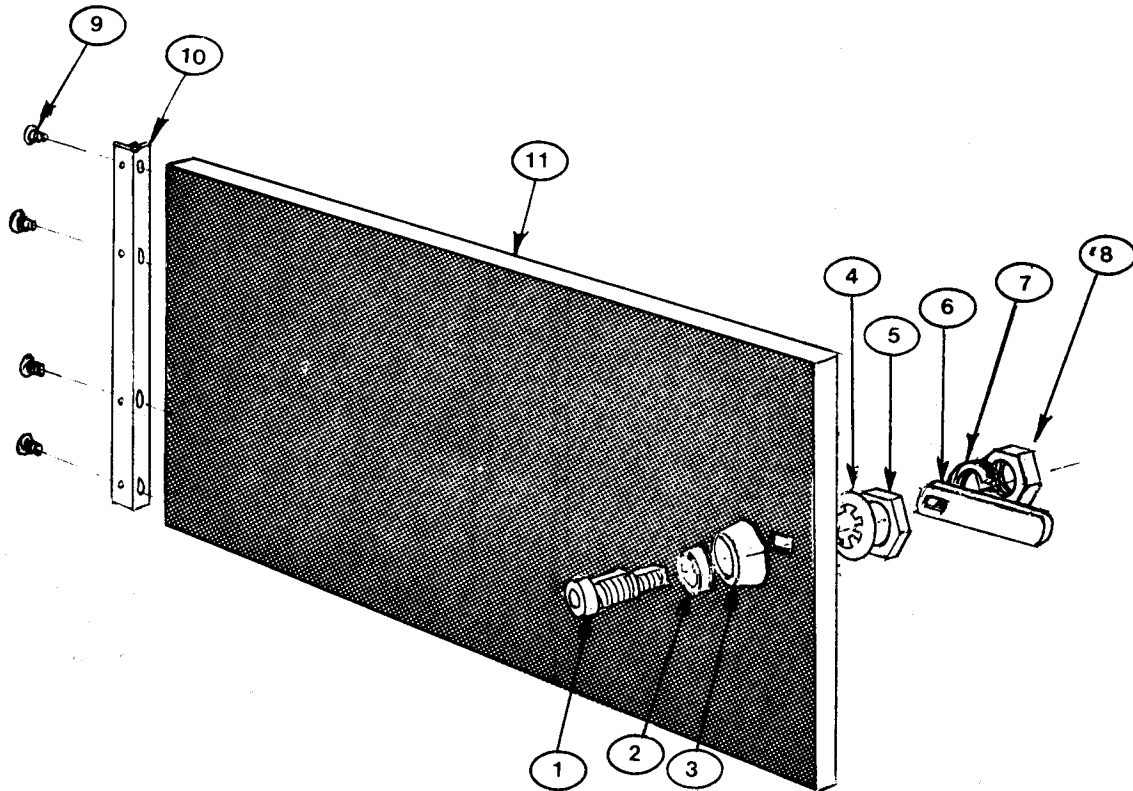


trim

INDEX	PART NO.	NOMENCLATURE
1	C-11056	Selector Switch Assembly
2	C-11031	Reject Lever Assy
3	A-1414	Reject Lever Cover Plate
4	A-10342	Coin Return Cup Assembly
5	D-5041-02	Escutcheon Plate
6	C-4960	Trim Cap
7	A-4015	Indicator Light



storage door & lock ass'y



INDEX	PART NO.	NOMENCLATURE
1	B-351**	Flex-Ace Lock, Keyed MSU
2	A-1676	Spacer Collar
3	A-575	Protecting Collar
4	A-366	Washer-Shakeproof
5	A-1788	Hex Nut
6	A-3548	Cam
7	A-357	Washer - Shakeproof
8	A-358	Hex Nut
9	A-638	Screws - #8-32 x 3/8" Type 23 (undercut Flat hd Phillips Recess, Z.P.)
10	B-2305	Hinge
11	C-5137-*	Storage Compartment Door

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

- 02 Vendo Beige
- 03 Beige Enamel
- 05 Pearlstone Grey

B-10115 Lock Assembly -- Includes No. 1 thru 8

** Please specify key number

POLYVEND MODEL CSV-15

Four Price Unit

ALPHABETICAL PARTS LIST

PART NUMBERS	NOMENCLATURE
D-10432-01.....	Arm & Channel Assembly - Delivery Compartment
C-4862-01.....	Baffle - Left Side
A-104.....	Ballast
A-1178.....	Bearing Bushing
B-4852-01.....	Bottom, Product Display
A-1704.....	Bracket - Fuse Holder
A-597.....	Bracket - Mounting Jones Receptacle
A-1416.....	Bracket - Mounting - Reject Lever
A-1322.....	Bushing - Snap SB-2000, Right Side Panel
B-8439.....	Bracket - Side Lamp (amp)
B-795.....	Bracket - Top Lamp (amp)
A-842.....	Bumper, Rubber
A-326.....	Bumper, Associated Rubber
A-730.....	Bushing - Candy Module
A-777.....	Cable Clamp - R.H. Panel Assembly
A-571.....	Cam, Chicago Lock #7-586
A-3548.....	Cam, Storage Door
A-1531-01.....	Cam, Product Loading Door - Lock
C-11053-02.....	Candy Slide and Module
B-11086-02.....	Candy Module (large cup)
B-11060-02.....	Candy Module (small cup)
B-10965.....	Chain Assembly - Complete
A-4994.....	Chain Guide
D-1723.....	Chain Housing Segment
A-1928.....	Chain - Ladder
A-10416.....	Chain Segment Assembly
A-1865-01.....	Clamp, Harness - Selector Switch
A-8538-01.....	Clamp, Harness
A-8538-02.....	Clamp, Harness
A-1489.....	Clip, Mounting (Fuse Holder)
A-10342.....	Coin Return Cup Assembly
C-11029.....	Coin Chute Assembly - Upper
C-8656.....	Coin Hopper and Chute Assembly
B-10121-01.....	Coin Bank Assembly
A-1676.....	Collar Spacing (3/8")
A-575.....	Collar, Protecting for flex-ace lock
C-11055.....	Control Box Assembly
A-1414.....	Cover Plate - Reject Lever
A-8437-01.....	Cover, Control Box
B-5158.....	Cover, L.H. Rear Brace
C-1719.....	Cylinder Lifter
A-1293-19.....	Data Plate



PART NUMBERS	NOMENCLATURE
B-3768.....	Decal, Control Box Assembly
A-5213.....	Decal - Selection Numbers (1-15)
A-11540.....	Decal - Warning
A-11168.....	Delivery Compartment Assembly
D-10469-01.....	Delivery Compartment Assembly
C-11061-02.....	Divider and Bottom Assembly - Candy Module
C-11085-02.....	Divider and Bottom Assembly - Candy Module
C-11027-*.....	Door Assembly - Rear (*Specify Color)
D-10113-02.....	Door Assembly - Product Loading
B-11167.....	Door Assembly - Plexiglass
C-10431-01.....	Door Assembly - Anti-theft
A-577.....	Door - Coin Return Cup
B-1851-02.....	Door - Plexiglass
B-1817.....	Door Retainer - Delivery Compartment
C-5137-*.....	Door - Storage Compartment (*Specify Color)
B-5157-01.....	Door - Sliding
A-2559.....	"E" Ring Tru Arc
A-295.....	Equalizer, Leg
B-11012.....	Escutcheon Plate Assembly
D-5041-02.....	Escutcheon Plate - Right Side
A-1235.....	Extrusion - Right Side - Product Door
A-1240.....	Extrusion - Left Side - Product Door
A-1241.....	Extrusion - Top & Bottom - Product Door
B-1841.....	False Bottom - Delivery Compartment
A-1362.....	Fastner, Secure-A-Tie
A-1488.....	Fuse, #GMQ 3.2 amp
A-1811.....	Glass, Tempered 3/16" x 25 13/16 x 36 3/16"
A-2225.....	Gripring
A-1706.....	Harness, Fuseholder
C-1702.....	Harness, Lamp - Top and Side
B-2305-00.....	Hinge - Storage Compartment Door
A-1248.....	Hinge - Product Door
B-4959.....	Insert - Coin Casting
A-1919.....	Instructions, Cleaning
A-1243.....	Key, Extruded corner - Product Door
A-5807-01.....	Label, Affix beside data plate
A-546.....	Lamp, Fluorescent
A-801.....	Lampholder, (amp) #1-480344-0
B-10217-01.....	Light Fixture Assembly - Top
B-11362.....	Light Fixture Assembly, Left Side
A-4015.....	Light, Indicator 28V W/split legend
A-10118.....	Lock Assembly
A-10114.....	Lock Assembly (Service Door)
A-266.....	Lockwasher #8 Internal Tooth
A-366.....	Lockwasher, Lock Assembly
A-357.....	Lockwasher, Lock Assembly
A-10973-01.....	Module Arm Assembly Complete
C-10970-01.....	Module Arm and Plate Assembly

PART NUMBERS

NOMENCLATURE

C-10434.....Motor Assembly - Complete
 C-10966-01.....Motor Mounting Assembly
 A-5162.....Nameplate CSV-15
 A-1788.....Nut - Hex, Lock Assembly
 A-358.....Nut - Hex, Lock Assembly
 A-355.....Nut - Hex
 D-11043-01.....Panel Assembly - Right Side
 A-1946.....Plain Link
 A-1302.....Plate "Patent Notice"
 A-1250-02.....Plate - Reinforcing - Front Door Lock
 A-729....."Pop" Rivet #SD-42-BS
 A-1642....."Pop" Rivet #SD-45-BS
 A-4990-01.....Price Insert 15¢
 A-4990-02.....Price Insert 20¢
 A-10971-01.....Rack Module Assembly
 B-10972-02.....Rack Module Assembly - Complete
 C-11031.....Reject Lever Assembly
 A-1450.....Relay - 11 pin 24 volt
 A-1935-01.....Retainer, Front Shaft - Candy Module
 A-1936-01.....Retainer, Rear Shaft - Candy Module
 A-642.....Rivet, Drive - Southco #38-10
 A-5138.....Rivet Drive
 A-1272.....Roll pin 3/32 dia. x 5/8" lg
 A-766-02.....Screen, Fiberglass 2" x 3 3/4"
 A-289.....Screw, #8-32 x 3/8" PH type "F" thread cutting
 A-1298.....Screw, #8 x 3/8" PH Pan "AB" Dichromatic
 A-300.....Screw, #6 x 7/8 "A"
 A-601.....Screw, #10-24 x 3/8
 A-863.....Screw, #4-40 x 1/2 PH Pan "23" ZP
 A-1210.....Screw, #8-32 x 5/16 Machine PH Pan SS
 A-681.....Screw #8-32 x 3/4" "F"
 A-1868.....Screw #8-1/4 Type "B" Pan Hd PH Recess, ZPVD
 A-638.....Screw #8-32 x 3/8 Type 23 Undercut flat hd ph recess ZP
 A-2614.....Screw, Coin Hopper
 A-318.....Screw, 1/4-20 x 5/8 "23"
 A-286.....Screw, #10-32 x 1/2 "F"
 A-302.....Screw, #6-32 x 3/8" Machine Mt. Jones Receptacle
 A-689.....Screw, #8-32 x 3/8 swageform slot hex hd washer
 A-11894.....Screw, Trim Cap
 C-11056.....Selector Switch Assembly - four price
 B-1872.....Selector Switch Guard
 C-1627.....Selector Switch Button #1-15 & One Blank
 B-1473.....Service Cord
 A-1741.....Shaft, Rear Sprocket
 A-2558.....Shaft, Front Sprocket
 A-1939.....Shaft, Vertical
 R-11009-*......Shell, Outer - Assembly (*Please Specify Color)
 A-534.....Skate Wheel
 C-1717.....Slide - Chain Segment



PART NUMBERS

NOMENCLATURE

- B-10971-01.....Slide and Module Assembly
- A-1745.....Spacer - Detent Spring
- A-1869.....Spacer - Detent Spring (Plain)
- A-827.....Spacer - Reject Lever
- A-8601.....Spare Parts Assembly
- A-611.....Spring - Relay Mounting
- A-1744.....Spring Lock, Module Assembly
- A-1743.....Spring - Rear Sprocket Detent
- A-1720.....Spring - Compression
- A-84.....Spring - Reject Lever
- A-1927.....Sprocket - Drive
- A-2563.....Sprocket - Rear
- A-2565.....Sprocket - Front
- A-2607.....Starter - FS-25
- A-1344.....Strain Relief Heyco, Service Cord
- A-810-02.....Stripping, Neoprene 3/16 x 3/8
- A-810-03.....Stripping, Neoprene 3/16 x 3/8 x 39" lg
- A-3566.....Stripping, Neoprene Delivery Compartment
- A-545.....Strap, Wire Harness R.H. Panel Assembly
- A-10410-01.....Tab and Stripper Assembly
- B-3193.....Terminal Board
- B-11032-01.....Track Assembly - Upper
- B-11245-01.....Track Assembly - Lower
- C-4960.....Trim Cap
- A-4988-01&02.....Trim Set - Delivery Compartment
- A-4989-01.....Trim Set
- A-1565.....Transformer
- A-351-10.....Tumbler 7-pin Keyed MSU Ace keypull & rotation style "A"
- A-368-33.....Tumbler 7-pin Ace (Keyed MST unless o/w specified)
- A-1804.....U.L. Label
- A-5161.....Vend Relay, Mounting Bracket
- A-1754.....Wedge - Cylindrical
- A-1207.....Wire Nut, Ideal #A-5
- B-5196.....Wiring Harness for A-4015 Light
- B-1759.....Wiring Harness - Top Lamp
- B-1760.....Wiring Harness - Side Lamp
- C-5199.....Wiring Harness - Motor

for Parts and Service contact:

Polycend^{INC.}



P. O. BOX 1166
CONWAY ARK. 72032
501 / 327- 1301