

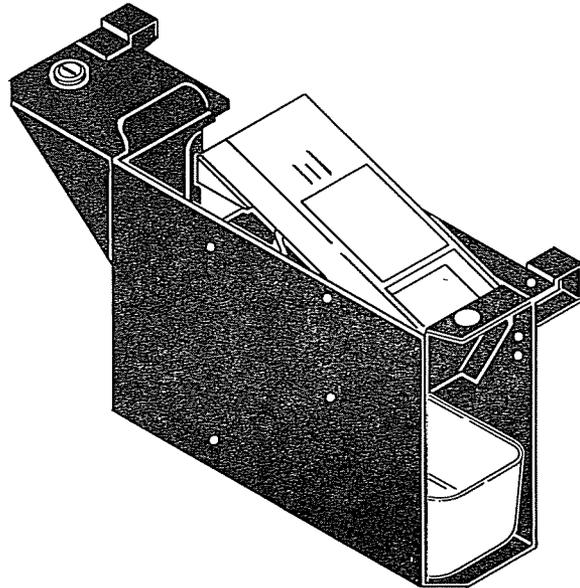


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MODULAR COIN MECHANISM

INSTALLATION MANUAL



Manual Part No. 335733-000
November 14, 1975
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THIS DOCUMENT CONTAINS IMPORTANT INFORMATION

This Installation Manual must be read and understood to perform adjustments, operation, and perform service and maintenance procedures on the Mechanical or Solid-State Electronically Operated Modular Coin Mechanism.

Refer to PART I Table of Contents for Mechanical Coin Mechanism or PART II Table of Contents for Solid-State Electronically Operated Coin Mechanism

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PART I

MECHANICAL MODULAR COIN MECHANISM

IMPORTANT: *To the user of this manual - Part I of this manual is a guide for adjusting, operating, performing service and maintenance, and troubleshooting the mechanical modular coin mechanism. Refer to Part I of Table of Contents for page location of detailed information pertaining to questions that may arise.*

SECTION I

GENERAL DESCRIPTION

This section gives the description of the Mechanical Modular Coin Mechanism (see Figure 1).

UNIT DESCRIPTION

The Mechanical Modular Coin Mechanism consist of a vend door with a mechanism that is unlocked by an internal coin accumulator when proper coins are inserted to set up a vend credit. This coin mechanism is a correct change only device and will accept and function on U.S. and Canadian nickels, dimes, and quarters. The coin accumulator may be set to operate on any single vend price between free vend and \$1.50 in 5-cents increments and is easily adjusted for any of these vend prices. The coin mechanism will operate in a temperature range of 35°F to 140°F at maximum relative humidity of 98%. THE COIN MECHANISM IS NOT TO BE EXPOSED TO EXTREME DEGREE OF WATER SPRAY SUCH AS RAIN WHICH WILL CAUSE FUNCTIONAL PROBLEMS.

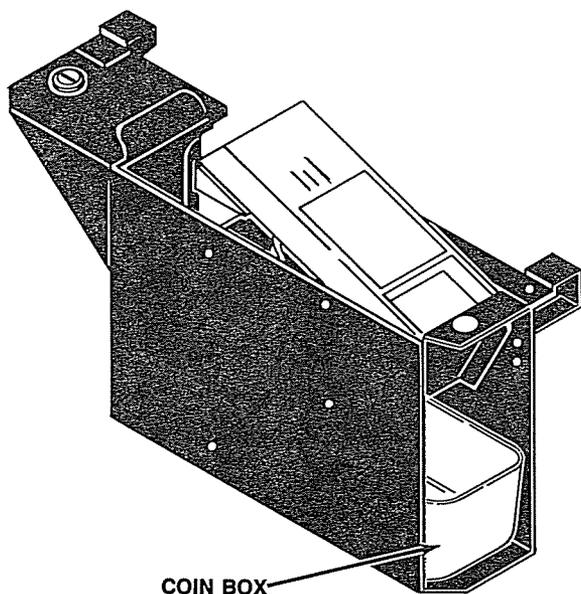


FIGURE 1. MECHANICAL COIN MECHANISM

SECTION II

MECHANICAL MODULAR COIN MECHANISM SETUP

ADJUSTING COIN ACCUMULATOR VEND PRICE

The coin accumulator may be set to function between free vend and \$1.50 in 5-cents increments. Proceed as follows:

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove cover and track assembly from coin mechanism as instructed.
- 3) Remove coin accumulator from inside coin mechanism as instructed.
- 4) Set coin accumulator vend price as instructed.
- 5) Install coin accumulator in coin mechanism by reversing removal procedure.
- 6) Install cover and track assembly in coin mechanism by reversing removal procedure.
- 7) Install coin mechanism in vender by reversing removal procedure.

SECTION III

SERVICE AND MAINTENANCE

This section covers service and maintenance procedures to be performed on the Mechanical Modular Coin Mechanism.

IMPORTANT: Only qualified personnel should perform service and maintenance procedures on the coin mechanism.

REMOVE AND REPLACE MECHANICAL MODULAR COIN MECHANISM, COVER AND TRACK ASSEMBLY, COIN ACCUMULATOR, AND COIN BOX

COIN MECHANISM (see Figure 1)

- 1) Unlock coin mechanism.
- 2) Tilt front of coin mechanism up, then pull mechanism up and out of vender.
- 3) Install coin mechanism in vender by reversing removal procedure.

COVER AND TRACK ASSEMBLY (see Figure 2)

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove hitch pins (s) securing cover and track assembly in coin mechanism, then remove cover and track assembly.
- 3) Install cover and track assembly in coin mechanism, then install coin mechanism in vender by reversing removal procedure.

COIN ACCUMULATOR (see Figure 2)

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove cover and track assembly from coin mechanism as instructed.
- 3) Remove three screws securing coin accumulator in coin mechanism, then remove coin accumulator.
- 4) Install coin accumulator and cover and track assembly in coin mechanism, then install coin mechanism in vender by reversing removal procedures.

COIN BOX (see Figure 1)

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove coin box from inside coin mechanism.
- 3) Install coin box in coin mechanism, then install coin mechanism in vender by reversing removal procedure.

ADJUSTMENTS

COIN ACCUMULATOR VEND PRICE ADJUSTMENT (see Figure 2 and 3)

NOTE: Each time the coin accumulator vend price is increased, theft prevention spring should be checked for proper operation and adjusted if necessary.

The coin accumulator vend price may be set up to function between free vend and \$1.50 in 5-cents increments. Proceed as follows to set coin accumulator for desired vend price.

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove cover and track assembly from coin mechanism as instructed.
- 3) Remove coin accumulator from inside coin mechanism as instructed for access to coin accumulator price setting cam.
- 4) Each increment shown on the price cam hub represents 5-cents of vend price in the coin accumulator.
 - a. Calculate cam hub increment price setting cam pointer is to be set at by dividing desired vend price by 5.

CAUTION: To prevent damage to coin accumulator parts, hold PRICE CAM HUB against HOME POSITION STOP (see Figure 3) when loosening or tightening PRICE SETTING CAM RETAINING SCREW.

- b. Rotate price cam hub to the left (counterclockwise) until cam hub is against stop.
 - c. Loosen price setting cam retaining screw just enough to allow cam to turn.
 - d. Set price setting cam pointer at cam hub increment calculated in step a preceding.
 - e. Rotate price cam hub to the right (clockwise) until cam hub is against stop.
 - f. Tighten price setting cam retaining screw.
- 5) Install coin accumulator and cover and track assembly in coin mechanism by reversing removal procedures. **MAKE SURE COIN ACCUMULATOR RESET ASSEMBLY IS FULLY RESET BEFORE INSTALLING COIN ACCUMULATOR IN COIN MECHANISM.**
 - 6) Using coins, test vend coin mechanism for proper operation, then install coin mechanism in vender by reversing removal procedure.

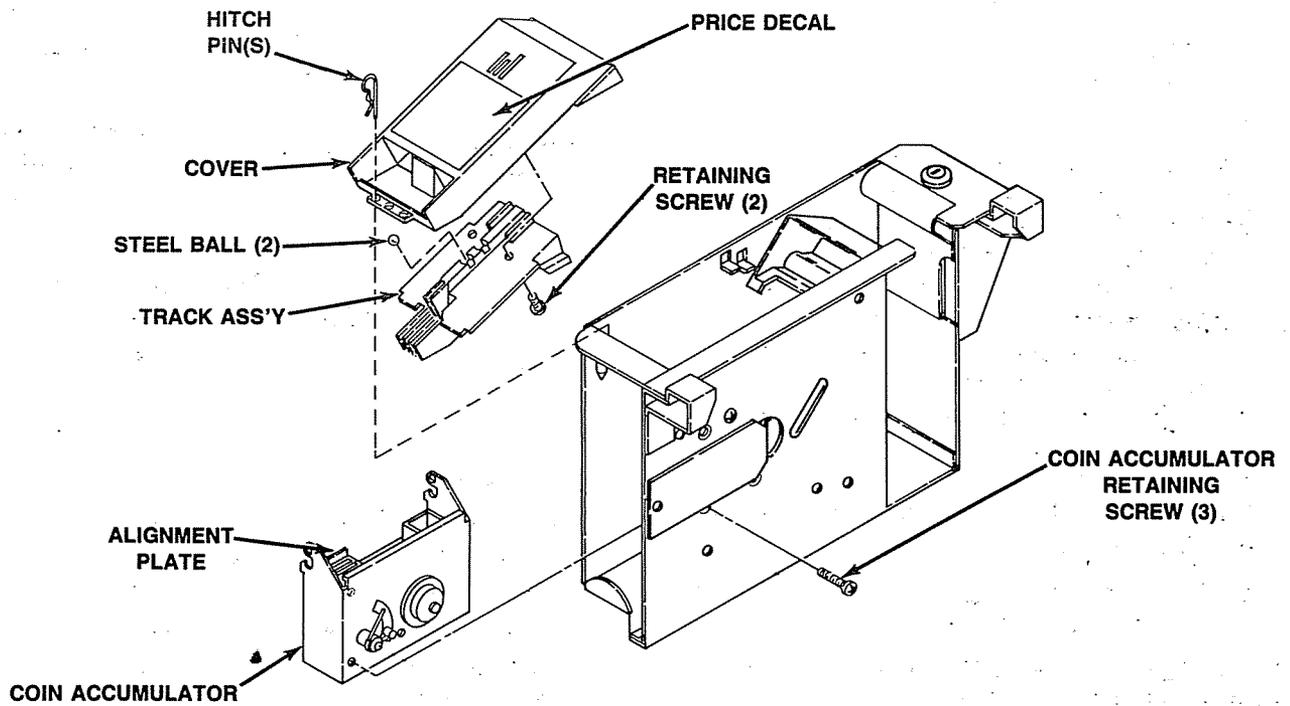


FIGURE 2. MECHANICAL COIN MECHANISM PARTS IDENTIFICATION

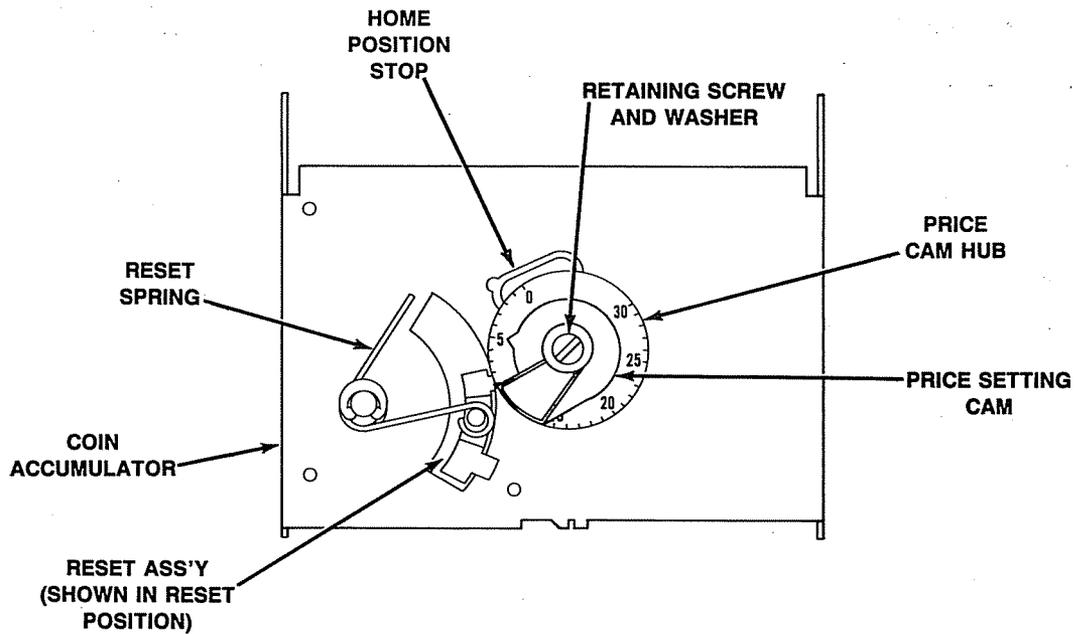


FIGURE 3. MECHANICAL COIN ACCUMULATOR VEND PRICE ADJUSTMENT

COIN ACCUMULATOR RESET SPRING ADJUSTMENT (see Figure 3)

- 1) Remove coin accumulator from coin mechanism as instructed.
- 2) Coin accumulator reset assembly must reset during ratchet part of opening vend door. This is checked by first loading coin accumulator with proper coins to set up vend credit. Open vend door slowly observing point at which coin accumulator reset spring resets coin accumulator for next vend. This point may be changed by bending reset spring to the right (clockwise) the way the spring is wound to strengthen spring tension for a faster reset time or bend spring to the left (counterclockwise) to weaken spring tension for a slower reset time. Test and bend reset spring until proper coin accumulator reset time is achieved.
- 3) Install coin accumulator in coin mechanism by reversing removal procedures.

COIN ACCUMULATOR THEFT PREVENTION SPRING ADJUSTMENT (see Figure 4)

- 1) Remove coin accumulator from coin mechanism as instructed.
- 2) Reset credit gear by turning gear to the left (counterclockwise) extreme position.
- 3) Hold credit gear from turning, then press coin actuators all the way down.
- 4) Slowly release credit gear until variable pawl makes contact with theft prevention lever. It may be necessary to reform theft prevention spring so theft prevention lever makes proper contact with variable pawl.
- 5) Check and adjust theft prevention spring until proper adjustment is achieved.
- 6) Install coin accumulator in coin mechanism by reversing removal procedure.

CLEANING COIN MECHANISM (see Figure 2)

Cleaning the coin mechanism is a periodic necessity for removing beverage residue, dirt, grime, and metallic material left by the coins. Proceed with the following to clean the coin mechanism.

NOTE: LPS brand Electro-Contact Cleaner and TRI-Flow Aerosol lubricant spray are recommended for cleaning the coin mechanism and are available from:

**Engineered Lubricants
11525 Rock Island Court
Maryland Heights, Missouri 63043
Telephone: 1-800-325-1685 OR
1-314-872-9540**

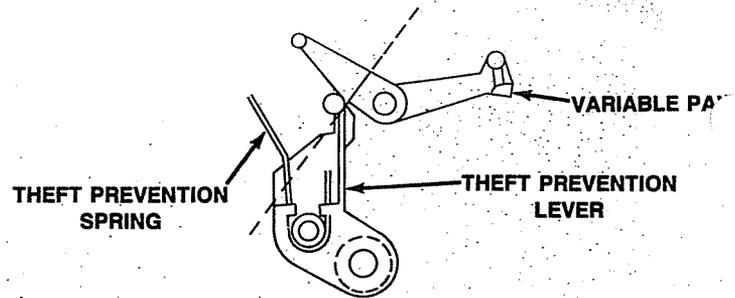


FIGURE 4. THEFT PREVENTION SPRING ADJUSTMENT

- 1) Remove coin mechanism from vender as instructed.
 - 2) Remove cover and track assembly from coin mechanism as instructed.
 - 3) Remove two screws securing cover to coin track. Being careful not to lose two steel balls in coin track, remove cover from coin track.
 - 4) Wash coin track, coin cover, and steel balls in potable water, then rinse and allow to air dry. **DO NOT WASH PLASTIC PARTS IN HOT WATER OR DISHWASHING EQUIPMENT.**
 - 5) Make sure two steel balls are in place in coin track, then install coin track cover and secure with two screws removed in step 3) preceding.
 - 6) Remove three screws securing coin accumulator in coin mechanism frame, then remove coin accumulator from inside coin mechanism.
- IMPORTANT: Do not use powder soaps as they leave particulate filler material inside coin accumulator which tends to jam its mechanism.**
- 7) Thoroughly clean coin accumulator with LPS brand Electro-Contact Cleaner, or liquid soap such as Fantastic or 409 with a final hot water rinse to remove all soap. Allow coin accumulator to air dry.
 - 8) Lubricate coin accumulator credit gear bearing as instructed.
 - 9) Thoroughly wash interior and exterior of coin mechanism frame with potable water, rinse, then allow to air dry.
 - 10) Install coin accumulator and coin track assembly in coin mechanism frame, then install coin mechanism in vender by reversing removal procedures.

LUBRICATING CREDIT GEAR BEARING (see Figure 3)

Only lubrication required for the coin mechanism is the coin accumulator credit gear bearing. No other lubrication is required. Proceed as follows to lubricate credit gear bearing.

- 1) Remove coin accumulator from inside coin mechanism as instructed.

CAUTION: To prevent damage to coin accumulator (see Figure 3), hold PRICE CAM HUB against HOME POSITION STOP when loosening or tightening PRICE SETTING CAM RETAINING SCREW.

- 2) Rotate price cam hub to the left (counterclockwise) until cam hub is against stop.
- 3) Remove screw and washer securing price setting cam and price cam hub to credit gear shaft, then remove cam and cam hub from gear shaft.
- 4) Push credit gear shaft back out of bearing (approximately 1/8-inch) to expose small portion of bearing surface.

- 5) Place small amount of sewing machine oil, straight mineral refrigerant, or TRI-FLOW aerosol lubricant spray on exposed credit gear bearing surface. **DO NOT USE PRETROLEUM LUBRICANTS AS THEY TEND TO OXIDIZE AND GUM UP THE MECHANISM.** Work credit gear shaft back and forth in bearing to distribute lubricant over all of the bearing surface. **WIPE OFF ALL EXCESS LUBRICANT.**
- 6) Install price cam hub and price setting cam on credit gear shaft and secure with washer and screw. **DO NOT TIGHTEN SCREW AT THIS TIME.**
- 7) Rotate price cam hub to the right (clockwise) until cam hub is against stop. Tighten price setting cam retaining screw.
- 8) Install coin accumulator in coin mechanism, then install coin mechanism in vender by reversing removal procedures.

SECTION IV

TROUBLESHOOTING MECHANICAL MODULAR COIN MECHANISM

IMPORTANT: Only qualified personnel should service coin accumulator.

Trouble	Probable Cause	Remedy
COIN/COINS JAMMED AT TOP OF COIN CHUTES.	1. Cover and track assembly not properly aligned with coin accumulator.	1. Check and make sure alignment plate on coin accumulator is in place.
BENT COIN IS LODGED OR COINS HANGING UP IN TRACK ASSEMBLY.	<p>NOTE: Coins hanging up are usually caused by dirt and/or metallic material from coins causing steel balls in track assembly (see Figure 2) to stick not allowing coins to be accepted or rejected. Proceed as follows to correct problem.</p> <ol style="list-style-type: none"> 1) Remove coin mechanism from vender as instructed. 2) Remove hitch pin(s) securing cover and track assembly, then remove cover track assembly from coin mechanism. 3) Remove screws securing track assembly in cover, then remove track assembly. DO NOT LOSE TWO STEEL BALLS IN TRACK ASSEMBLY. Remove bent coin if lodged in cover or track assembly. 	

Trouble	Probable Cause	Remedy
<p>4) Wash track assembly, cover, and steel balls in potable water, then allow parts to air dry. DO NOT WASH PLASTIC PARTS IN HOT WATER OR DISHWASHING EQUIPMENT.</p> <p>IMPORTANT: This is an opportune time to remove and clean coin accumulator as instructed in manual.</p> <p>5) Place steel balls in track assembly, then install track assembly in cover.</p> <p>6) Install cover and track assembly in coin mechanism.</p> <p>7) Install coin mechanism in vender.</p> <p>8) Vender must be level to ensure proper coin mechanism operation.</p>		
<p>COIN ACTUATOR HANGING IN UPRIGHT POSITION WITH COIN ON ACTUATOR.</p>	<ol style="list-style-type: none"> 1. Foreign material on coin actuator pivot point. 2. Coins drop too slowly from cover and track assembly. 	<ol style="list-style-type: none"> 1. Thoroughly clean coin accumulator. 2. Check alignment of cover and track assembly to coin accumulator. Make sure alignment plate on coin accumulator coin chute is in place.
<p>COIN ACTUATORS NOT RETURNING TO HOME (STANDBY) POSITION.</p>	<ol style="list-style-type: none"> 1. Foreign material in coin chutes. 2. Variable pawl spring broken, weak, or missing. 3. Obstruction between coin actuators. 	<ol style="list-style-type: none"> 1. Thoroughly clean coin accumulator. 2. Replace variable pawl spring. 3. Remove coin actuators and check for burrs, flash, or foreign materials and remove.
<p>OVERCREDIT ON ANY COIN INSERTED.</p>	<ol style="list-style-type: none"> 1. Theft prevention spring out of adjustment. 2. Holding pawl spring broken, weak, or missing. 	<ol style="list-style-type: none"> 1. Adjust theft prevention spring as instructed. 2. Replace holding pawl spring.
<p>NO CREDIT ON ANY COIN INSERTED.</p>	<ol style="list-style-type: none"> 1. Obstruction in credit gear and/or price setting cam area. 	<ol style="list-style-type: none"> 1. Thoroughly clean coin accumulator and lubricate credit gear bearing.

PART II

SOLID-STATE ELECTRONICALLY OPERATED MODULAR COIN MECHANISM

IMPORTANT: *To the user of this manual - Part II of this manual is a guide for adjusting, operating, performing service and maintenance, and troubleshooting the Solid-State Electronically Operated Modular Coin Mechanism. Refer to Part II of Table of Contents for page location of detailed information pertaining to questions that may arise.*

SECTION I

GENERAL DESCRIPTION

This section gives the description of the Solid-State Electronically Operated Modular Coin Mechanism (see Figure 5).

UNIT DESCRIPTION

The Solid-State Electronically Operated Modular Coin Mechanism consists of a vend door with a mechanism that is unlocked by an internal solid-state coin accumulator when proper coins are inserted to set up a vend credit. The coin mechanism is a correct change only device and will accept and function on U.S. and Canadian nickels, dimes, and quarters. The solid-state coin accumulator may be set to function between 5-cents to \$3.15 and is easily adjusted. The coin mechanism will operate in a temperature range of 35°F to 140°F at maximum relative humidity of 98%. **THE COIN MECHANISM IS NOT TO BE EXPOSED TO ANY WATER SPRAY SUCH AS RAIN WHICH WILL CAUSE FUNCTIONAL PROBLEMS AS WELL AS ELECTRICALLY SHORTING OUT AND POSSIBLY RUINING THE CIRCUIT BOARD.**

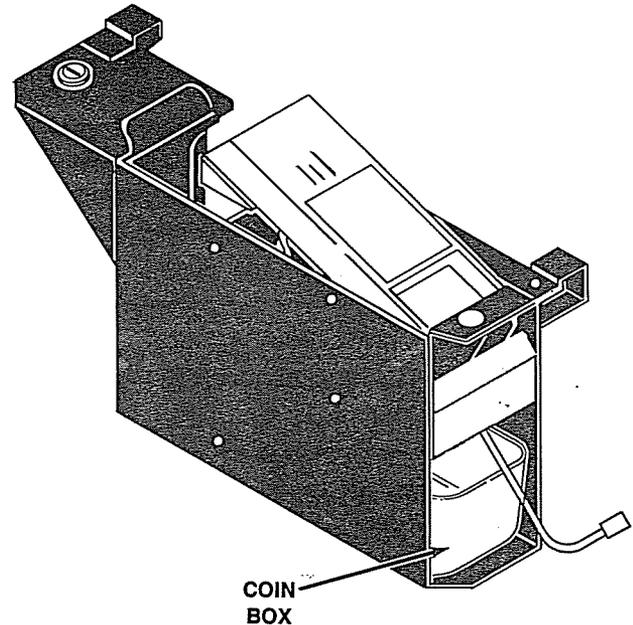
SECTION II

SOLID-STATE ELECTRONICALLY OPERATED MODULAR COIN MECHANISM SETUP

ADJUSTING SOLID-STATE COIN ACCUMULATOR VEND PRICE (see Figure 7)

The solid-state coin accumulator may be set to function between 5-cents to \$3.15. Proceed as follows to adjust coin accumulator to desired vend price.

- 1) Remove coin mechanism from vender as instructed.
- 2) Set coin accumulator vend price switches for desired vend price as instructed.
- 3) Install coin mechanism in vender by reversing removal procedure.



**FIGURE 5. SOLID-STATE ELECTRONICALLY
OPERATED COIN MECHANISM**

SECTION III

SERVICE AND MAINTENANCE

This section covers service and maintenance procedures to be performed on the Solid-State Electronically Operated Modular Coin Mechanism.

IMPORTANT: *Only qualified personnel should perform service and maintenance procedures on the solid-state coin mechanism.*

REMOVE AND REPLACE SOLID-STATE COIN MECHANISM COVER AND TRACK ASSEMBLY, COIN ACCUMULATOR, AND COIN BOX

COIN MECHANISM (see Figure 5)

- 1) Disconnect coin mechanism power cord connector from mating connector on power cord coming from inside bottom of vender.
- 2) Unlock coin mechanism.
- 3) Tilt front of coin mechanism up, then pull mechanism up and out of vender.
- 4) Install coin mechanism in vender by reversing removal procedure.

COVER AND TRACK ASSEMBLY (see Figure 6)

- 1) Remove coin mechanism from vender as instructed.

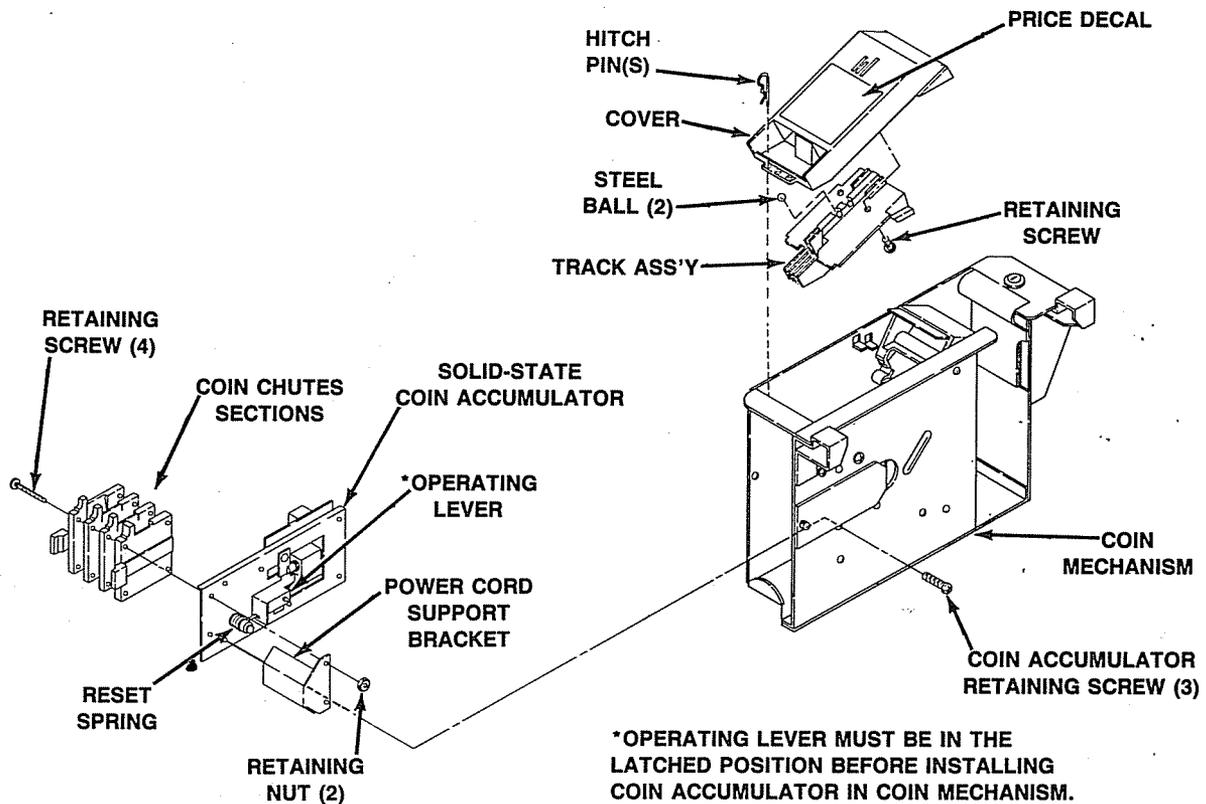


FIGURE 6. SOLID-STATE COIN MECHANISM PARTS IDENTIFICATION

2) Remove hitch pins(s) securing cover and track assembly in coin mechanism, then remove cover and track assembly.

3) Install cover and track assembly in coin mechanism, then install coin mechanism in vender by reversing removal procedure.

COIN ACCUMULATOR (see Figure 6)

1) Remove coin mechanism from vender as instructed.

2) Remove cover and track assembly from coin mechanism as instructed.

3) Remove coin accumulator power cord support bracket retaining screw from coin mechanism.

4) Remove three coin accumulator retaining screws from side of coin mechanism, then *very carefully* slide accumulator out of coin mechanism.

5) Install coin accumulator in coin mechanism by reversing removal procedure. **MAKE SURE WHEN ACCUMULATOR IS INSTALLED, OPERATING LEVER ON ITS SIDE (SEE FIGURE 6), IS IN LATCHED POSITION AND RESET SPRING IS AHEAD OF RESET ROLLER INSIDE COIN MECHANISM.**

6) Install cover and track assembly in coin mechanism by reversing removal procedure.

COIN BOX (see Figure 5)

1) Remove coin mechanism from vender as instructed.

2) Remove coin box from inside coin mechanism.

3) Install coin box in coin mechanism, then install coin mechanism in vender by reversing removal procedure.

ADJUSTING COIN ACCUMULATOR VEND PRICE

SWITCHES (see Figure 7)

1) Remove solid-state modular coin mechanism from vender as instructed.

2) Using access hole on side of coin mechanism, set solid-state coin accumulator vend price switches for desired vend price.

3) Install coin mechanism in vender by reversing removal procedure.

CLEANING SOLID-STATE COIN MECHANISM

(see Figure 6)

Cleaning coin mechanism cover and track assembly and coin chutes assembly is a periodic necessity for removing beverage residue, dirt, grime, and metallic material left by the coins. Proceed with the following to clean coin mechanism.

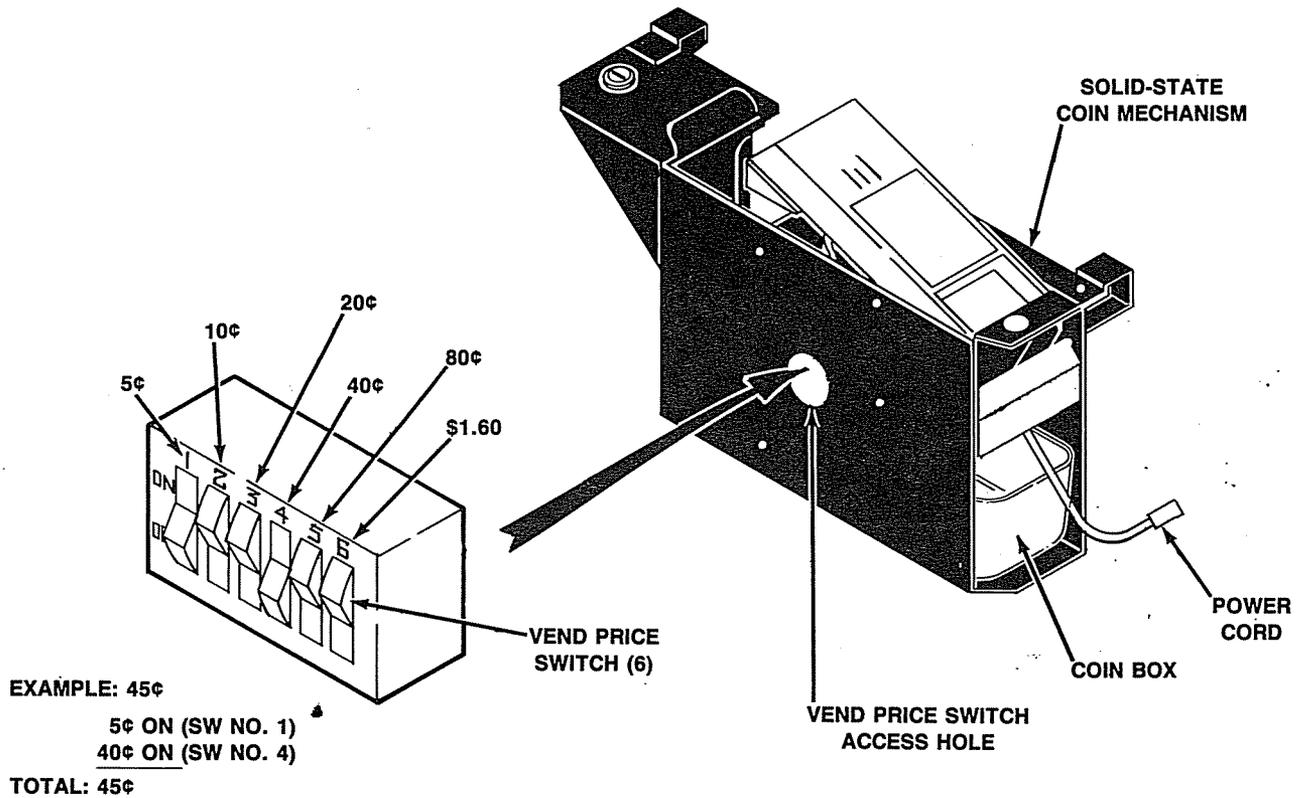


FIGURE 7. SOLID-STATE COIN ACCUMULATOR VEND PRICE SWITCHES

IMPORTANT: Only qualified personnel should perform cleaning procedures on the solid-state coin mechanism.

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove cover and track assembly from coin mechanism as instructed.
- 3) Remove two screws securing cover to coin track. Being careful not to lose two steel balls in coin track, remove cover from coin track.
- 4) Wash coin track, coin cover, and steel balls in potable water, then rinse and allow to air dry. **DO NOT WASH PLASTIC PARTS IN HOT WATER OR DISHWASHING EQUIPMENT.**
- 5) Make sure two steel balls are in place in coin track, then install coin track cover and secure with two screws.
- 6) Remove coin accumulator from inside coin mechanism as instructed.

IMPORTANT: Coin accumulator coin chute assembly *must* be assembled exactly as it was after completion of cleaning procedure to operate properly.

- 7) Remove two hex nuts securing power cord support bracket to coin accumulator, then remove support bracket.
- 8) Remove four screws securing coin chute assembly to coin accumulator. Separate sections of coin chute assembly.
- 9) Clean sections of coin chute assembly with a damp cloth, then allow sections to air dry.
- 10) Assemble coin chute sections and install on coin accumulator by reversing removal procedure.
- 11) Install power cord support bracket on coin accumulator and secure with two hex nuts.
- 12) Install coin accumulator and cover and track assembly in coin mechanism by reversing removal procedure.
- 13) Install coin mechanism in vender by reversing removal procedure.

SECTION IV

TROUBLESHOOTING SOLID-STATE MODULAR COIN MECHANISM

IMPORTANT: Only qualified personnel should service solid-state modular coin mechanism.

Trouble	Probable Cause	Remedy
COIN MECHANISM INOPERABLE.	<ol style="list-style-type: none">1. Vender power cord unplugged from electrical outlet.2. Coin mechanism power cord connector disconnected from vender 12 VAC power cord connector.3. Coin mechanism coin accumulator inoperable.4. 115/12 VAC transformer inoperable.5. Foreign material in cover and track assembly or coin accumulator coin chutes.	<ol style="list-style-type: none">1. Plug vender power cord into electrical outlet.2. Connect coin mechanism power cord connector to vender 12 VAC power cord connector.3. Repair or replace coin accumulator.4. Replace transformer.5. Clean coin mechanism as instructed.

BENT COIN IS LODGED OR COINS HANGING UP IN TRACK ASSEMBLY

NOTE: Coins hanging up are usually caused by dirt and/or metallic material from coins causing steel balls in track assembly (see Figure 6) to stick not allowing coins to be accepted or rejected. Proceed as follows to correct problem.

- 1) Remove coin mechanism from vender as instructed.
- 2) Remove hitch pin(s) securing cover and track assembly, then remove cover track assembly from coin mechanism.
- 3) Remove screws securing track assembly in cover, then remove track assembly. **DO NOT LOSE TWO STEEL BALLS IN TRACK ASSEMBLY.** Remove bent coin if lodged in cover or track assembly.
- 4) Wash track assembly cover, and steel balls in potable water, then allow parts to air dry. **DO NOT WASH PLASTIC PARTS IN HOT WATER OR DISHWASHING EQUIPMENT.**

IMPORTANT: This is an opportune time to remove and clean coin accumulator as instructed in manual.

- 5) Place steel balls in track assembly, then install track assembly in cover.
- 6) Install cover and track assembly in coin mechanism.
- 7) Install coin mechanism in vender.
- 8) Vender must be level to ensure proper coin mechanism operation.