

SERVICE MANUAL

POPCORN

MODEL 205

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POPCORN

Specifications:

Height 63"
Width 19"
Depth 19"
Weight approximately 105 lbs.
Cup Capacity 125 18 oz. cups

Electrical Requirements:

110 V.A.C. 50/60 Hertz - 3 amp peak load
Heater: 120 Watts

Installation:

- (1) Remove any tape, braces and other packing materials from the machine.
- (2) The keys will be found in the coin return cup.
- (3) The machine must be level to operate correctly. Leveling is done by adjusting the leveling screws located at each corner of the cabinet. Adjust so the machine is level and does not rock or teeter on any of the legs.
- (4) Plug into electrical outlet.
 - (a) Light bulb should light up.
 - (b) Heater should warm up.
 - (c) Load the machine with popcorn and cups (see loading instructions)
 - (d) Coin mechanism should accept money.
- (5) Test vending operation
 - (a) Insert proper coins
 - (b) Cup should drop, fill with popcorn and shut off.

Loading of Products: (see FIG. 1)

(1) Cup Compartment

- (a) Remove top cover
- (b) Open cup drop lid which should lock the shift column to the right side of the cup compartment.
- (c) Drop cups into the cup compartment.
- (d) Close cup compartment lid.

(2) Place popcorn in product area. Replace top cover, lock and remove key.

Troubleshooting:

Important: Make sure this manual is completely followed before contacting a factory service representative. When doing so, give model number and serial number of the machine.

1. Rejects all coins:
 - (a) Machine is unplugged
 - (b) Blown circuit breaker in power source

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| | (c) Blown circuit breaker in machine |
| | (d) Cup dispenser empty |
| | (e) Cup empty switch defective |
| | (f) Open wire to cup empty switch |
| | (g) Defective coin mechanism |
| | (h) Bent coin in rejector |
| 2. Money accepted, no product delivered. (Credit relay not energizing). | (a) Defective relay |
| | (b) Open brown wire from pin #3 of coin mechanism |
| | (c) Open purple wire from N.O. of limit switch. |
| | (d) Defective limit switch. |
| 3. Money accepted, no product delivered (Credit relay energizing). | (a) Defective contacts in relay |
| | (b) Open white wire to relay |
| | (c) Open yellow wire to relay |
| | (d) Open wire to vend motor |
| | (e) Defective vend motor |
| | (f) Open thermal switch in motor. Switch will correct itself automatically after motor cools down. |
| 4. Vend is made but cup does not drop. | (a) Defective solenoid |
| | (b) Open or loose wire to solenoid. |
| 5. Shift stack does not operate. | (a) Defective solenoid |
| | (b) Open or loose wire to solenoid. |
| 6. Popcorn not hot. | (a) Defective heater |
| | (b) Loose or open wire heater |
| 7. Vend motor cycles continuously. | (a) Defective coin mechanism |
| | (b) Limit switch not adjusted or defective |

Vend Cycle: (See Schematic)

- (1) Depositing the correct amount of money in the coin mechanism causes a credit signal to be sent out to the credit relay, the counter and the cup drop solenoid.
- (2) Once the credit relay is energized, power is applied from the black wire through the relay switch to the brown wire to hold in the relay counter and cup drop solenoid.
- (3) Power is applied to start the vend motor from the yellow wire of the credit relay.
- (4) Once the limit switch drops off the vend motor cam, the credit relay de-energizes and the vend motor continues to cycle until the motor cam returns to the start position to re-activate the lever on the limit switch. The vend cycle is then complete.
- (5) Transfer and sold out switch. Power through the pink wire from this switch keeps the C.R.E.M. coil in the coin mechanism energized as long as there are cups. With no cups, money will be returned to the coin return cup. This switch also energizes the cup transfer solenoid

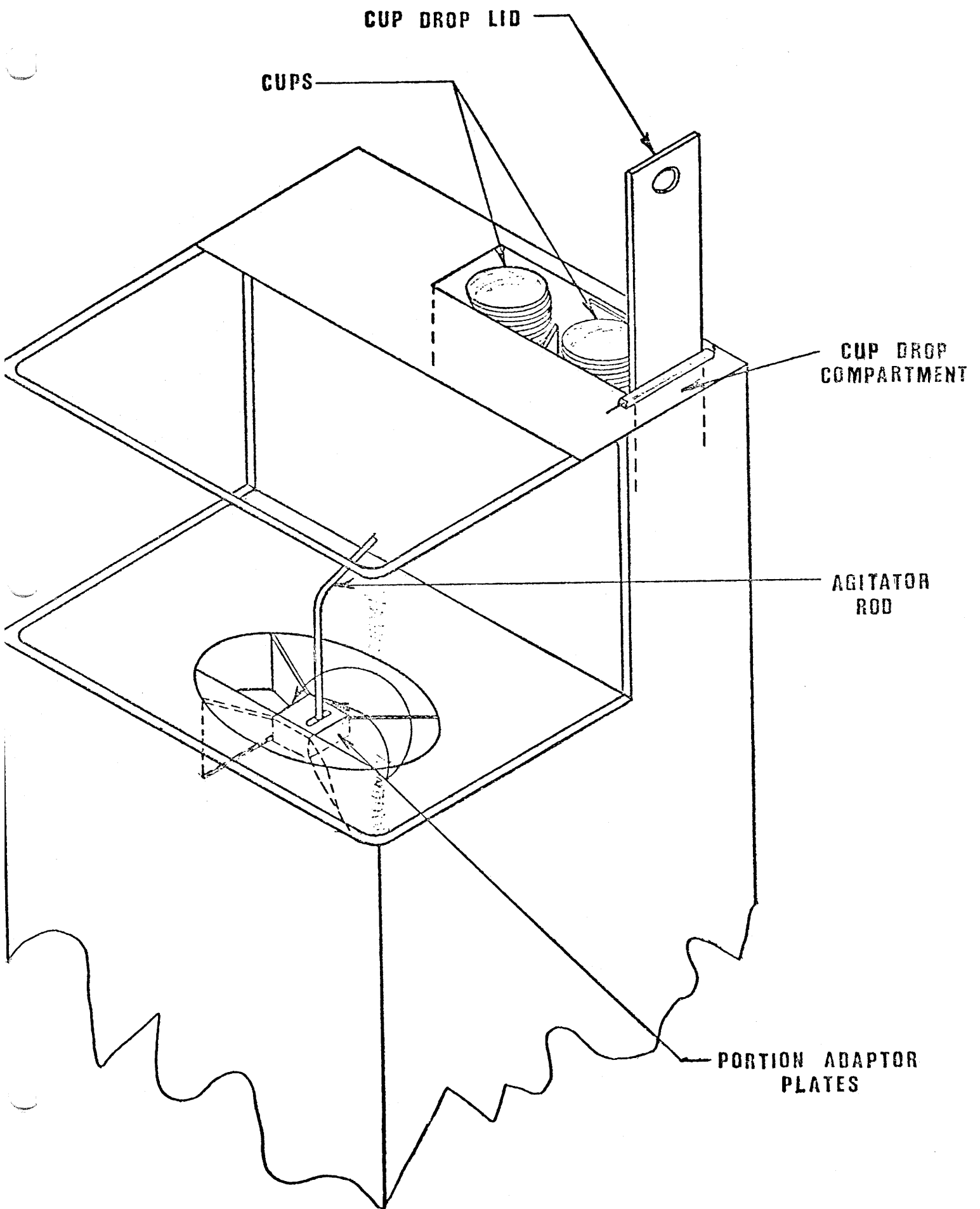
when the first column of cups drop below the switch actuator.

Portion Adjustment: (See Fig. 1)

The amount of popcorn vended can be adjusted by moving the three portion adjustment plates.

- (1) The popcorn must be removed from the product area.
- (2) Loosen the agitator rod. Do not remove. The three portion adapter plates are directly under the nut at the bottom of the agitator rod.
- (3) Each portion adaptor plate is slotted to allow the plates to move in or out of the portion area. Adjust any or all of these plates to the portion required.
- (4) Retighten the agitator rod.
- (5) Fill with product and vend

FIG 1



PARTS LIST

<u>Part No.</u>	<u>Req'd</u>	<u>Description</u>
100147	1	Cabinet Assembly
6122	1	Cap Top
60028	1	Popcorn Lock
100673	1	Top Plate Assembly
30095	1	Top Lock Stud
33671	1	Grommet
33531	1	Light Bulb
33541	1	Socket
6199	1	Cup Drop Hinge Pin
6194	1	Cup Drop Lid
25201	1	Plastic Bubble
20063	1	Decal "Little Boy"
60077	45"	Gasket
6381	1	Delivery Hopper
30062	2	Hold Down Rod
100665	1	Storage Back Assembly
100658	1	Cup Drop Assembly
100659	1	Cup Drop Gate Assembly
6396	1	Cup Transfer Gate Hinge-Bottom
21015	2	Spring
6397	1	Cup Transfer Angle
30104	1	Cup Dispenser Bushing
30053	5	Shoulder Bushing
30099	2	Solenoid Link Bushing
6198	1	Cup Drop Reset Arm
6139	1	Cupwell Dog
6456	1	Cup Dispenser Solenoid Link
21017	1	Display Back Spring
6443	1	Spring Retainer Cupwell
33637	2	Solenoid
33587	1	Cup Transfer Switch
30096	2	Cup Drop Spacer
100669	1	Cup Drop Base Assembly
6107	1	Solenoid Link
21066	2	Cup Ring Return Spring
100171	1	Pan Support Assembly
30210	3	Motor Spacer Bushing
33515	1	Motor
33515	1	Switch
30066	1	Drive Shaft
100664	1	Portion Pan Base Assembly
10061	1	Delivery Collar Assembly
6377	1	Drive Shaft Washer
100674	1	Paddle Wheel Assembly
6188	1	Collar Cover
33533	1	Strip Heater
100661	1	Popcorn chute Assembly
6088	5	Cupwell Rod
100662	1	Cupwell Assembly
100667	1	Cupwell Bottom Trim

<u>Part No.</u>	<u>Req'd</u>	<u>Description</u>
6086	1	Cupwell Top Trim
6102	2	Cupwell Side Trim
25202	1	Cupwell Door
100663	1	Anti-Cheat Door Assembly
60324	1	Plastic Bucket
100672	1	Rejector Changer Bracket Assembly
100671	1	Coin Box Assembly
60025	2	Lock
60026	1	Lock Cam
60222	1	Coin Mechanism
6161	1	Utility Plate
33607	1	Changer Plug
33647	1	Counter
33703	1	Relay Socket
33702	1	Relay
33620	1	5 Amp Circuit Breaker
33631	1	Power Cord
33681	1	Bushing Cord Lock
33482	1	Wire Harness
100689	1	Door Assembly
30026	1	Coin Reject Knob
10060	1	Rejector Slide Assembly
20028	1	Price Tag
20065	1	Decal Popcorn
33571	1	Ampillum
60076	1	Coin Return Cup
100478	1	Coin Return Chute Assembly
6375	1	Aluminum Trim Strip
60202	1	Leg Leveler
6029	1	Wiring Diagram
4352	1	Lock Cover Hinge
4353	1	Top Lock Plate
4354	1	Lock Cover
5529-2	1	Coin Insert Plate Assembly

WIRING DIAGRAM - CUP DROP POPCORN

6029

6 WATT, 130 VOLT LINE

