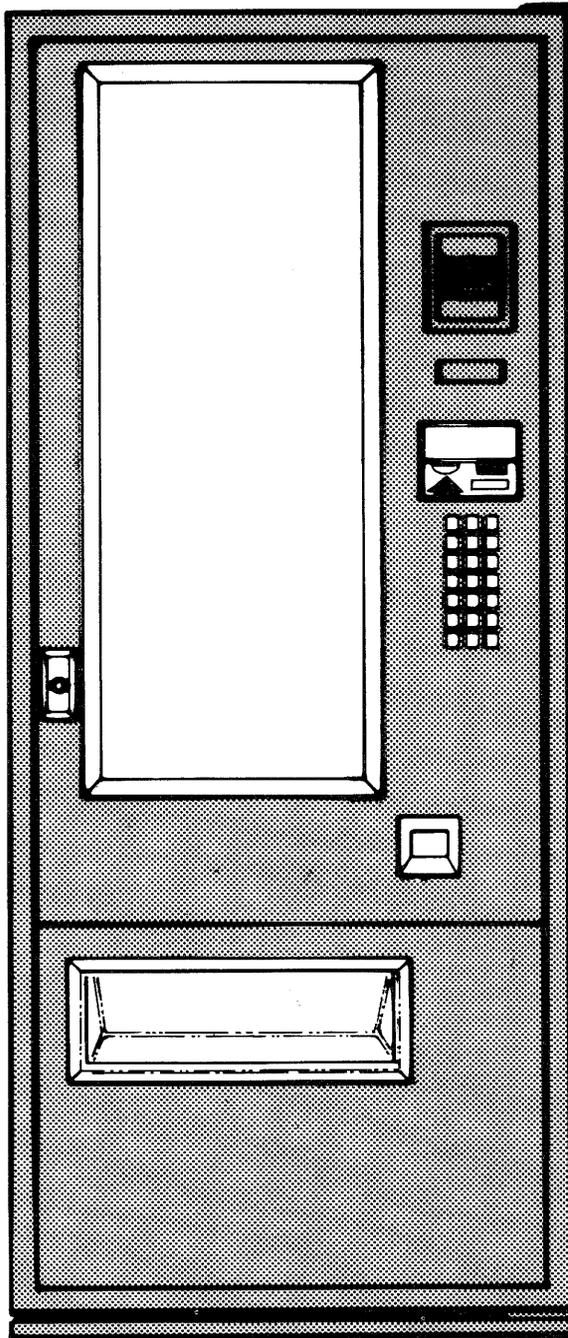


GF 19 GLASSFRONT VENDOR



SERVICE MANUAL

P/N 4202376

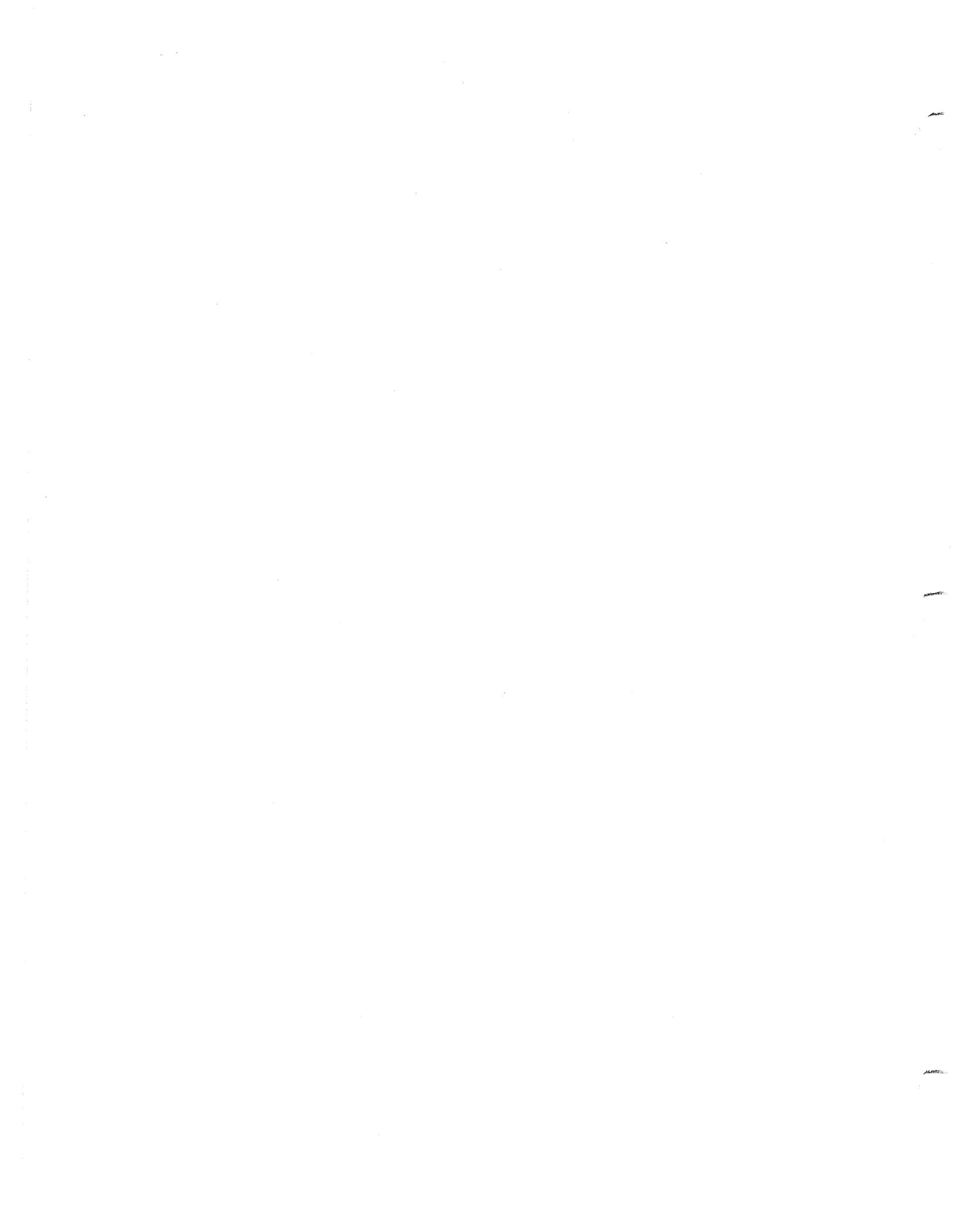


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INTRODUCTION

The contents of this manual contains instructions, service and installation guidelines pertaining to the GF 19.

The GF 19 is equipped with an electronic control system that can be programmed into the logic of the controller and used by the customer as needs arise for specific locations.

The electronics within the controller allow all selections to be priced separately at various vend prices ranging from \$.05 to \$12.75 in five cent increments. All programming of the vend functions, pricing and features is done at the controller and changes and/or information can be retrieved without the need of any additional accessories or remote parts.

Electrical malfunctions are recorded by the controller and will be displayed to service personnel when the machine is placed in the "Service Mode".

The vending sequence of the GF 19 is a "first-in"/"first-out" procedure in each selection, eliminating the need for stock rotation to maintain fresh products in the vend area.

It is recommended that this manual be read thoroughly to familiarize the service person with the functions of all components along with the features that are available. The initial set-up of a machine is a very important step of insuring that the equipment operates in a trouble-free manner. By following the instructions at the initial installation of the machine, service problems can be avoided and setup time will be minimized.

Should you have any questions pertaining to information in this manual, replacement parts, or the operation of the vendor you should contact your local distributor or Selectivend Service, 165 N. 10th, Waukegan, Ia. 50263-0488, (515) 274-3641.

SPECIFICATIONS

GENERAL SPECIFICATIONS:

Height	68 Inches
Width	28 Inches
Depth	30-1/8 Inches
Weight	342 Pounds

ELECTRICAL:

MODEL 3030	
Volts	115
Hz	60
Amps	1.2

MODEL 3029	
Volts	220/240
Hz	50
Amps	.6

PRICING:

\$.05 to \$12.75

COINAGE:

MARS	MC5010 TRC6010
COINCO	9302L

This machine has been thoroughly inspected before leaving the factory and the delivering carrier has accepted this vendor as their responsibility. Any damage or irregularities should be noted at the time of delivery and reported to the carrier. Request a written inspection report from the claims inspector to file any claim for damage. File the claim with the CARRIER (**NOT THE MANUFACTURER**) within 15 days after receipt of the machine.

Record the model number and serial number of the vendor for your records. These numbers can be found on the serial plate located on the rear of the cabinet. Refer to these numbers on all correspondence and inquiries pertaining to this vendor.

To minimize installation time and to avoid service problems due to improper installation, follow the instructions outlined in this manual.

Carefully remove the shipping carton in a manner not to damage the finish or exterior of the machine. Inspect the machine for concealed shipping damage. Report any damage hidden by the shipping carton directly to the delivering carrier on a "hidden damage" report.

Remove Knock-A-Way Support by placing a 2 X 4 under vendor, inserting a screwdriver and splitting the Knock-A-Way in two. Turn the leveling screws in as far as possible. (See **ILLUSTRATION #1**)

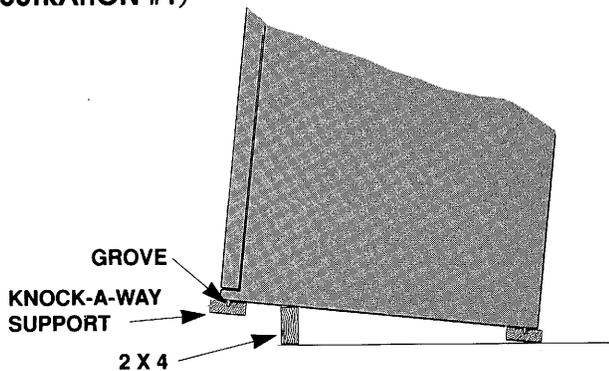


ILLUSTRATION #1

Position the vendor in its place of operation. Leave at least six (6) inches of space between the back of the machine and any wall or obstruction for proper air circulation. Level the vendor, making sure all levelers are touching the floor. The vendor **MUST** be level for proper operation and acceptance of coins through the coin mechanism.

GROUNDING & ELECTRICAL

For proper operation of any equipment utilizing electronic-controlled components, it is recommended that the equipment be placed on an isolated or individual circuit. The circuit should be a minimum 15 Amp, 115 Volt AC, 60 Hz, properly polarized and grounded. Shown in **Illustrations #2** and **#3** are two (2) properly-grounded and polarized wall outlets. **Illustration #2** is a three (3) wire grounding type wall outlet. **Illustration #3** is a two (2) wire outlet with a three (3) plug adaptor in place. To verify that the receptacle is properly grounded and polarized, insert one probe of a volt-ohm meter (set to check AC line voltage) or a neon test light in the ground terminal (hole) and the other probe into the "hot" terminal of the outlet. You should read 115 VAC on the volt-meter or the test light should light.

NOTE: The "hot" side of the outlet should always be counter-clockwise from the grounded terminal, with the ground terminal at the bottom.

If you find that the receptacle is not grounded, or polarized, you should contact a licensed electrician to correctly polarize and/or ground the receptacle to ensure safe operation.

Consult local, state and federal codes and regulations before installation of the vendor.

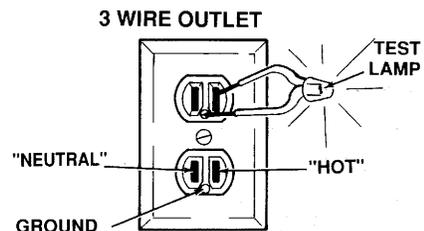


ILLUSTRATION #2

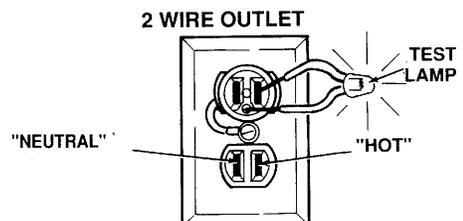


ILLUSTRATION #3

CONTROLLER FUNCTIONS

LOADING "CANDY & SNACK" COMPARTMENTS

When loading, lift and pull forward on the drawer until it contacts the drawer stop. The snack drawers tilt downward for ease of loading.

When loading the products, load front to back making sure all items fit freely between the spirals. Do not attempt to force oversize items into the spaces. All spaces forward **MUST** have a product in them; do not skip a space. The bottom of the item should be placed on the bottom of the compartment above the product auger, with the label facing the front of the machine easily identifiable by the customer.

L.E.D. CREDIT DISPLAY

The LED credit display is located in above the coin insert. The features in the LED credit display are:

USE EXACT CHANGE	PRICE
CREDIT	130 DIGIT MESSAGE
MAKE OTHER SELECTION	

The LED credit display is operated according to the following sequence:

1. If a selection is made and adequate credit has been established, then the display is cleared and the vend operation is completed.
2. If a selection is made and there is insufficient credit, then "PRICE" is flashed, along with the vend price for the selection.
3. The "MAKE OTHER SELECTION" will appear in the LED display if a faulty vend condition exists.
4. If credit is established and no selection is made, then the LED display will indicate "CREDIT" and the amount deposited will be displayed.
5. At the end of a vend cycle or after pressing coin return, the display will indicate "CREDIT" and "0.00".
6. "USE EXACT CHANGE" will appear if the changer payout tubes are empty.

CONTROL BOARD FUNCTIONS

The control board is located in the GF 19 cabinet in the right upper corner. Located on the control board are the nickel, dime and quarter inventory pay-out switches (for Mars TRC 6010 or Coinco 9302L only). Also located on the control board is the "SERVICE MODE SWITCH". (See **ILLUSTRATION #4**)

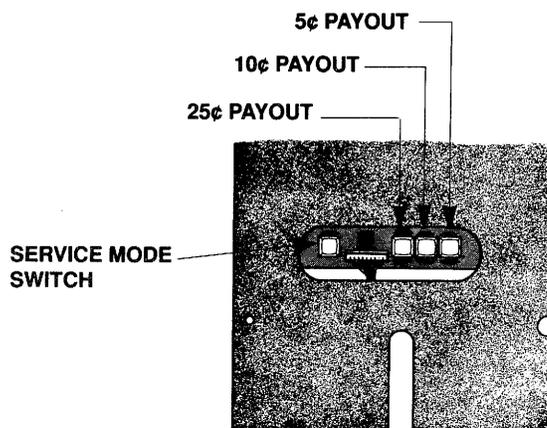


ILLUSTRATION #4

SALES MODE

The Sales Mode is the primary operational mode for the GF 19. Entering or actuate any other routine or feature, always results in an "Escape to the Sales Mode" with no additional input from the machine operator. IF NO SERVICE RELATED OPERATION HAS BEEN INPUTTED INTO THE VENDOR, THE VENDOR WILL ESCAPE TO THE SALES MODE IN 25 SECONDS.

SERVICE MODE

The "Service Mode" is entered by depressing the "SERVICE MODE SWITCH" located on the control board. The "Service Mode" automatically reverts to the "Sales Mode" if no service operation has occurred for approximately 25 seconds. When operated in the "Service Mode", several buttons on the front panel Key Pad will have more than one definition as outlined under the "SERVICE MODE FUNCTIONS". Upon actuating or depressing the "Service Mode Switch", the "LED" display will provide a read-out of faulty or jammed motor locations. Motor locations will alternate in the "LED" for 25 seconds unless interrupted by another function.

CONTROLLER FUNCTIONS

SERVICE MODE KEY FUNCTIONS

BUTTON NUMBER 1, 6, 11 and 12
= "ESCAPE TO SERVICE MODE"

This mode must be entered, after depressing the "Service Mode Switch". This mode is a "clearing" or "waiting" mode for additional input from the operator.

BUTTON NUMBER 2 = "NUMBER OF MOTORS"

This mode will indicate how many motors are in the circuit.

BUTTON NUMBER 3 = "FORCE VEND ON"

The "Force Vend On" mode, when used, will eliminate the escrow circuit. When money is deposited, a purchase must be made in the vendor before any money will be returned.

BUTTON NUMBER 4 = "FORCE VEND OFF"

This mode will remove the "Force Vend On" mode from the controller and allow "coin return" or escrow at anytime before vend.

BUTTON NUMBER 5 = "COPY PRICE MODE"

This mode may be used where there is more than one selection to be vended at the same price. See (COPY PRICE MODE - PRICE SETTING).

BUTTON NUMBER 7 = "DECREMENT PRICE"

This button is used in price setting to decrease the vend price, and it will decrease in 5¢ increments. (See PRICE SETTING).

BUTTON NUMBER 8 = "FREE VEND - SINGLE SELECTION"

This feature in "Service Mode" is for the service person or route person. This feature allows the service person or route person to test single selections without depositing money into the vendor. When finished with the testing, the service person must depress a button for "ESCAPE TO SERVICE MODE" to remove this feature before attempting to enter another mode.

BUTTON NUMBER 9 = "FREE VEND BY ROW"

This feature allows for the testing of an entire row by the service person or route person. After depressing button number 9 in "Service Mode" and depressing the selection letter of a row, the column will vend in sequence, starting with the highest selection number and ending with

the lowest selection in that row. After completing the test and before going to another mode you must first depress a button for "ESCAPE TO SERVICE MODE" to exit this feature.

BUTTON NUMBER 10 = "FREE VEND - ENTIRE MACHINE"

This feature is for the service person or route person to test vend every selection in the entire vendor. In the "Service Mode" and by depressing button number 10, the vendor will start to free vend beginning with the last selection and running in sequence backwards through the entire machine. To interrupt or stop this feature, depress and hold button #1. (Three (3) beeps will sound and the sequence will stop).

BUTTON NUMBER 13 = "ESCAPE TO SALES MODE"

This feature is used to place the vendor into the sales mode after performing any functions in the Service Mode.

BUTTON NUMBER 14 = "INCREMENT PRICE"

This button is used in price setting to increase the vend price, and it will increase in 5¢ increments. (See PRICE SETTING).

PRICE SETTING INSTRUCTIONS

Pricing is done through the selection panel of the GF 19 in conjunction with the "Service Mode Switch" located on the Control Board.

1. Depress the "Service Mode Switch" on the Control Board. The LED display will light indicating any faulty selections. (See **ILLUSTRATION #5**)

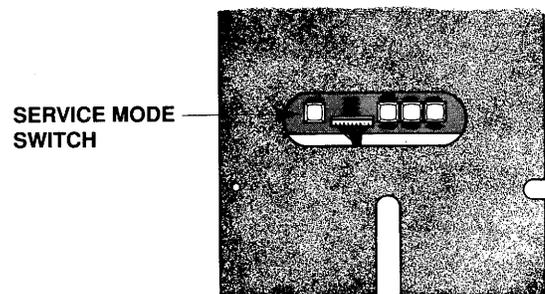


ILLUSTRATION #5

2. Depress No. "1" on the Key Pad.

CONTROLLER FUNCTIONS

3. Depress the selection on the Key Pad to be priced.
4. "To Increase" selection price depress the No. "14" button on the Key Pad. Price will increase in 5¢ increments. A single beep will sound for each 5¢ increase. The LED will display the selection price. When desired price appears in the display, release the button, the price is set for that selection.
5. "To Decrease" selection price depress the No. "7" button on the Key Pad. Price will decrease in 5¢ increments. A single beep will sound for each 5¢ decrease. The LED will display the selection price. When desired price appears in the display, release the button, the price is set for that selection.
6. Continue setting prices for each selection by repeating Steps 2 thru 5 or by using "COPY PRICE MODE". (See Copy Price Mode Instructions).
7. After completing "Price Setting" depress button No. "13" to set controller in the "Sales Mode".

5. To continue to copy a different price setting, depress No. "1" button on the Key pad and repeat Steps 2 thru 4.

IMPORTANT: When completed with "PRICE SETTING", depress No. "13" button on the Key Pad to return to the "SALES MODE". The controller will automatically return to the "SALES MODE" 25 seconds after the last input or depression of the Key Pad.

COPY PRICE MODE

When there is more than one selection to be vended at the same vend price, the "Copy Price Mode" can be used when establishing vend prices.

1. While in the "Service Mode", depress the No. "1" button on the Key Pad (Selector Panel).
2. Depress the selection for the price that is to be copied on the Key Pad. A single beep will sound to acknowledge the selection and the LED will light showing the selection price.
3. Depress the No. "5" button on the Key Pad. A continuous beep will sound and the LED will light showing the selection price.
4. Enter the desired selections to receive the copied price. A single beep will sound acknowledging each selection.

EXAMPLE: When entering selections you must enter as A-1, C-4, D-5, etc.

COIN MECHANISM REMOVAL

To remove the coin mechanism follow the steps outlined below: (See **ILLUSTRATION #6**)

1. Turn the power switch off, on the transformer cover.
2. Disconnect the coin mechanism plug.

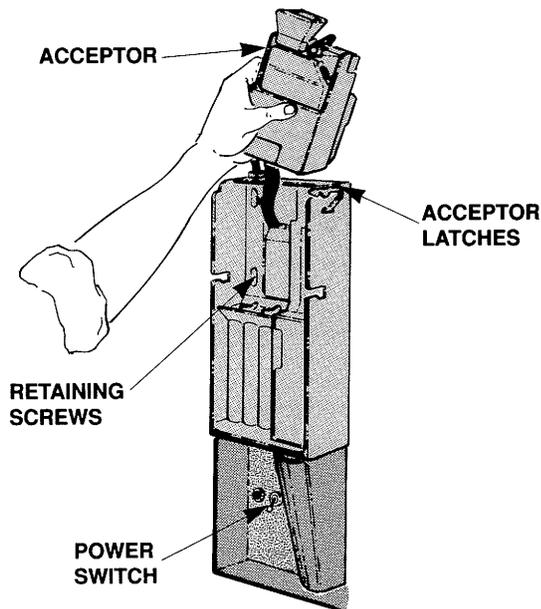


ILLUSTRATION #6

3. Release the acceptor latches.
4. Tilt the acceptor toward you, raise up, and lift out.
5. Loosen the retaining screw. Raise up on the coin mechanism to clear the key holes, tilt forward and lift out.
6. To reinstall reverse procedures.

TRANSFORMER REMOVAL

To remove the transformer follow the steps outlined below: (See **ILLUSTRATION #7**)

1. Turn the power switch off.
2. Disconnect the power cord from the wall outlet.
3. Remove the screws mounting the coin chute (these screws also mount the transformer cover).

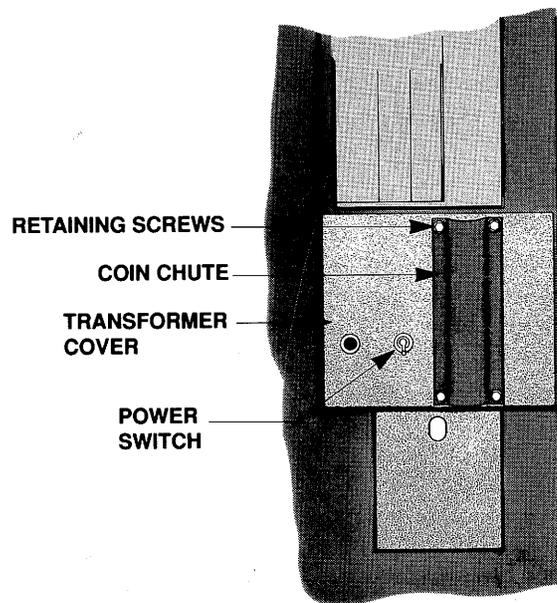


ILLUSTRATION #7

4. Remove the screws and nuts holding the transformer in place.
5. Unplug both primary and secondary plugs of the transformer.
6. To reinstall reverse procedures.

OPTIONAL ITEMS

VALIDATORS

The following validators are now available:

MAKA Model NB-14C P/N 4200892

MARS Model VFM3-L1-U2C P/N 8620725

To install the validator, follow the steps outlined below: (See ILLUSTRATIONS 8, 9, 10)

1. Loosen nuts on the validator bezel and remove the filler plate.
2. Reinstall the validator bezel.
3. Mount validator to validator bezel as shown.
4. Connect validator harness to appropriate plugs on the validator as shown.

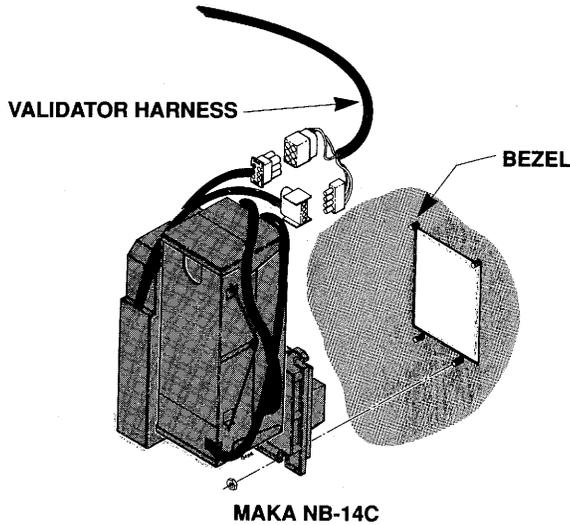


ILLUSTRATION #8

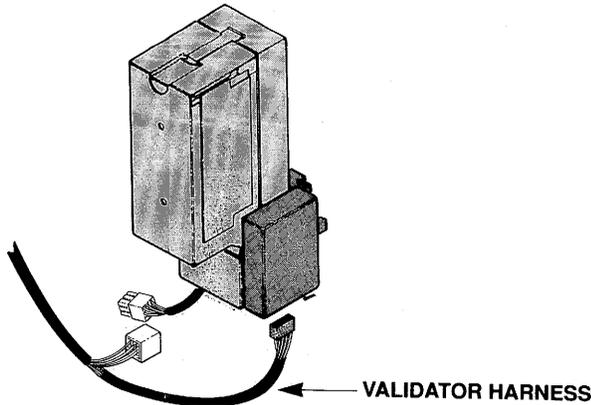


ILLUSTRATION #9

5. Connect the other end of the validator harness to the circuit board and the power harness located above the circuit board as shown.

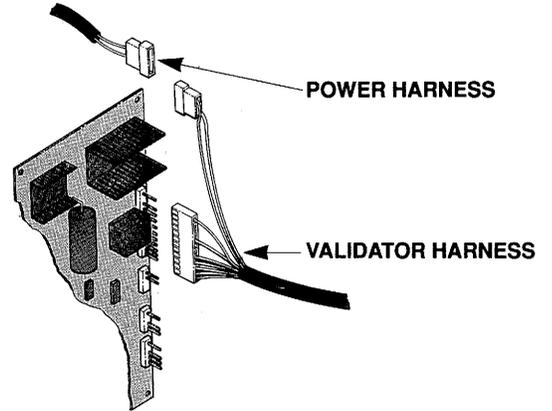
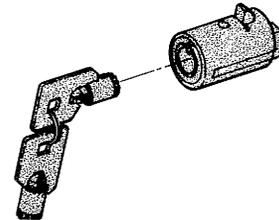
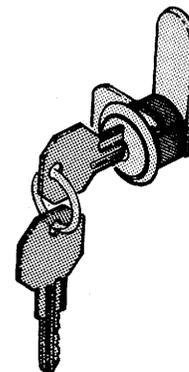


ILLUSTRATION #10

LOCK CYLINDER & 2 KEYS P/N 4060330

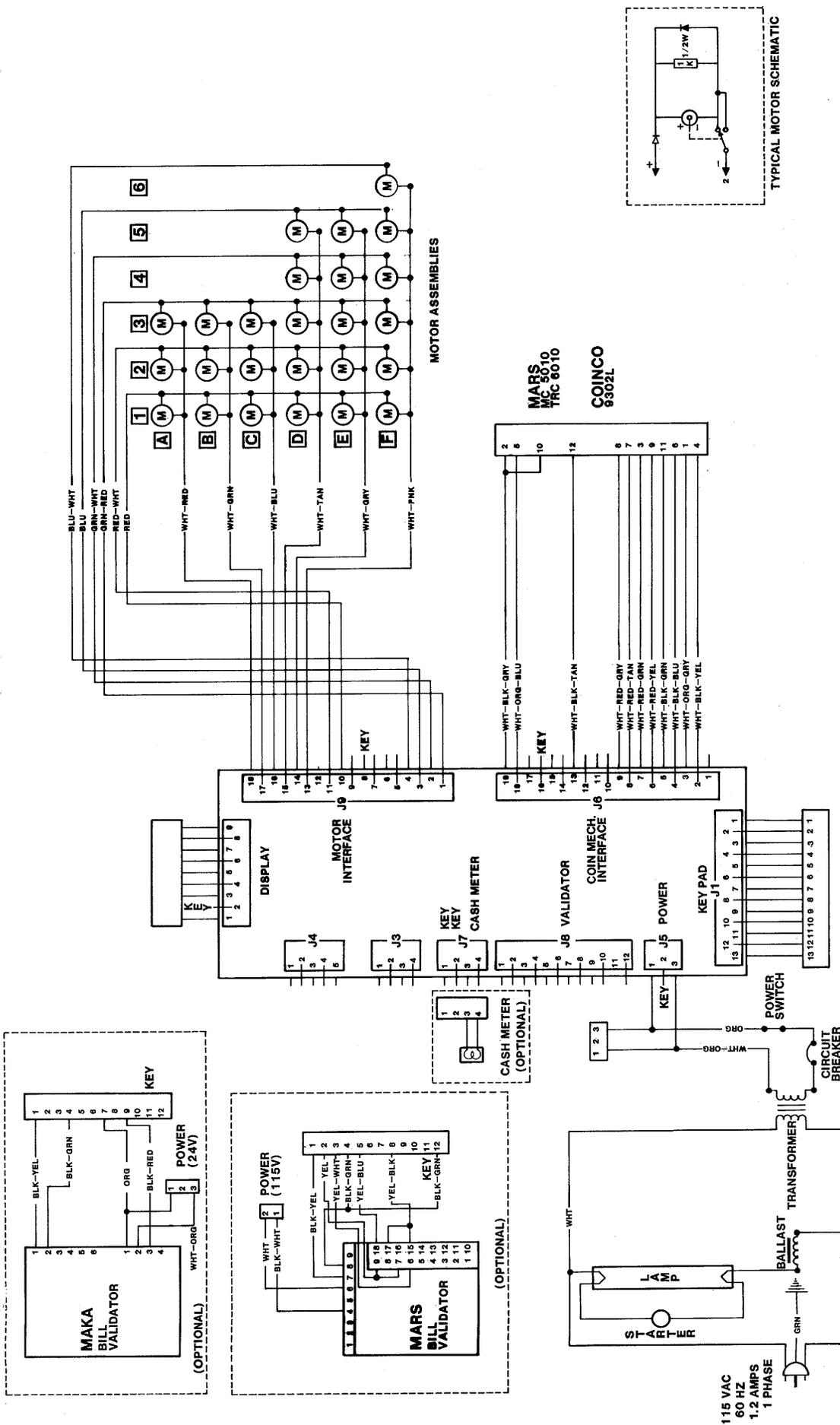


COIN BOX LOCK & 2 KEYS P/N 4060366



SCHEMATIC

GF 19
SCHEMATIC DIAGRAM



115 VAC
60 HZ
1.2 AMPS
1 PHASE

