EASY-KLEEN
PRESSURE SYSTEMS LTD.
MANUFACTURER OF HIGH PRESSURE CLEANING EQUIPMENT

Owner's Manual

Coin Operated Car Wash

Easy-Kleen Pressure Systems

1-800-315-5533

**This manual contains operational information that is specific
for coin operated car wash units.**

**Read the following instructions carefully before attempting to assemble,
install, operate, or service this pressure washer. Failure to comply with these
instructions could result in personal injury and/or property damage.**

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<u>INTRODUCTION</u>

Thank you for selecting a quality Easy-Kleen product. We are pleased to have you included among the many satisfied owners of Easy-Kleen cleaning machines. Years of engineering have gone into the development of these fine products and only top quality components and materials are used throughout. Each machine is carefully tested and inspected before leaving our plant to ensure years of dependable performance.

To continue to receive satisfactory performance, remembering that this machine represents a substantial investment on your part, and if properly cared for and maintained it will return this investment many times over. As with all mechanical equipment, your machine requires proper operation and maintenance as outlined in this manual for maximum trouble free life.

This manual has been prepared under the direction of our engineering and service technicians. Their experience in designing, manufacturing, installing and servicing our equipment from our company's inception is condensed in this manual. They know what information the end user needs in order to get the optimum performance from their pressure washer. Please read carefully.

This manual contains information that will be specific for your pressure washer, as well as similar models.

Carefully review any additional manuals that have been included with your system and follow ALL ADDITIONAL OPERATING INSTRUCTIONS AND SAFETY NOTICES. They are specific for the quality components that have been used to manufacture your machine and are an integral part of the operating and maintenance procedures.

The management & staff at Easy-Kleen are proud of the equipment that we design and manufacture and we thank you for making us your # 1 choice in pressure washers. If you have any questions please do not hesitate to call us, 1-800-315-5533.

**PLEASE READ MANUALS CAREFULLY BEFORE USING MACHINE.
EXAMINE
MACHINE AND CRATE CAREFULLY FOR SHIPPING DAMAGE OR MISSING
PARTS. REPORT PROMPTLY ANY SHORTAGES OR DAMAGE CLAIMS TO
FREIGHT CARRIER OR DEALER.**

IMPORTANT SAFETY INFORMATION

The safe operation of our pressure washing systems is the FIRST priority of Easy-Kleen. This will only be achieved by following the operation and maintenance instructions as explained in this manual and all other enclosed manuals.

This manual contains essential information regarding the safety hazards, operations, and maintenance associated with this machine. The manual should always remain with the machine, including if it is resold.

ALL CAUTIONS AND SAFETY WARNINGS MUST BE FOLLOWED TO AVOID INJURY OR DAMAGE TO EQUIPMENT.

THIS EQUIPMENT IS TO BE USED ONLY BY TRAINED OPERATORS AND MUST ALWAYS BE ATTENDED DURING OPERATION.

WARNING: **To reduce the risk of injury, read operating instructions carefully before using.**

1. Read the instructions in this manual carefully before attempting to assemble, install, operate or service this pressure washer. Failure to comply with the instructions could result in personal injury and/or property damage.

WARNING: **Use protective eyewear and clothing when operating equipment in order to avoid personal injuries.**

WARNING: **This machine exceeds 85db. Appropriate ear protection must be worn.**

WARNING: **Risk of explosion. Operate only where open flame or torch is permitted.**

WARNING: **Flammable liquids can create fumes which can ignite, causing property damage or severe injury.**

2. Be thoroughly familiar with all controls and know how to stop the machine in the event of an emergency.

WARNING: Risk of fire. Do not add fuel when operating machine.

3. The minimum clearance to any combustible material is 12 inches.

WARNING: Keep water spray away from electrical wiring.

4. All electrically powered equipment must be grounded at all times to prevent fatal electric shots. Do not spray water on or near electrical components. Do not touch electrical components while standing in water or when hands are wet. Always make sure machine is disconnected from power source before servicing.

WARNING: Risk of asphyxiation. Use this product only in a well ventilated area.

5. Use equipment in a well-ventilated area to avoid carbon monoxide poisoning or death.

WARNING: Risk of injection or severe injury to persons. Keep clear of nozzle spray.

6. High pressure spray can cause serious injuries. Never point pressurized spray at any person or animal. Handle the spray assembly with care.

WARNING: Risk of injury. Hot surfaces can cause burns.

WARNING

TRIGGER GUN KICKS BACK - HOLD WITH BOTH HANDS

WARNING: Trigger gun kicks back. Hold with both hands.

7. Hold firmly to the gun and wand during start up and operation of the machine. Do not attempt to make adjustments while the trigger gun is in operation.

8. Make sure all quick coupler fittings are properly secured before operating pressure washer.

WARNING

RISK OF INJURY FROM FALLS WHEN USING LADDER.

WARNING: Risk of injury from falls when using ladder.

9. Do not overreach or stand on anything unstable. Keep a good balance and make sure to keep a steady footing at all times.

WARNING

PROTECT FROM FREEZING

WARNING: Protect from freezing.

10. It is important to keep your machine from freezing in order to keep it in its best working condition. Failure to protect your machine from freezing may cause damage to the machine and personal injuries may occur as a result.

WARNING

RISK OF INJURY

WARNING: Risk of Injury

11. For machines with a 12 V burner: Disconnect battery ground terminal before servicing.

12. Protect high pressure hoses from sharp objects and vehicles. Inspect condition of hoses prior to use, or serious injury could occur.
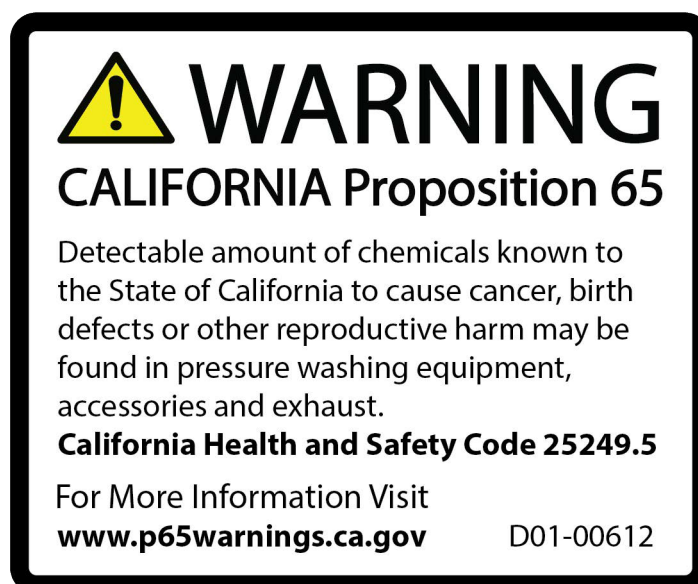
13. Do not pass acids or other caustic or abrasive fluids through the pump.

14. Never run pump dry of water or oil or let the pump run with the trigger gun released for more than 2 minutes.

15. Do not attempt to operate this machine if fatigued or under the influence of alcohol, prescription medications, or drugs.

16. Some of the maintenance procedures involved in this machine require a certified technician (these steps are indicated throughout this manual). Do not attempt to perform these repairs if you are not qualified.

If you need further explanation of any of the information in this manual, suspend any activity involving the equipment and call our toll free number for assistance, 1-800-315-5533.

⚠ **WARNING**

CALIFORNIA Proposition 65

Detectable amount of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be found in pressure washing equipment, accessories and exhaust.
California Health and Safety Code 25249.5

For More Information Visit
www.p65warnings.ca.gov   D01-00612

COIN OPERATED CAR WASH INSTALLATION

Labour

1. Mount pump package in equipment room
2. Mount center boom in the center of each bay
3. Mount coin-box on driver's side in front of each bay
4. Mount signs in visible areas
5. Connect preassembled wash gun and hose assembly to center boom
6. If foam brush option is purchased, mount boom bracket on drivers side 1 ½ feet from ceiling, then bolt boom to the bracket
7. Hook up foam brush hose and brush assembly to boom
8. Make sure all this equipment is mounted in such a way and with proper material that it cannot be pulled off or pried off by vandals
9. Mix chemicals in containers and put soap tube into containers

Electrical

1. Electrical controls within system are all prewired
2. Run power feed to control panel on each pump unit
3. Install proper gauge wire for motor size, volts and amp draw
4. Connect control size (#16 gauge 8 wire) from each control to each coin box on car wash bay (NOTE: there are 8 terminals all numbered: simply make connections) Test to verify all systems in working order

Plumbing

1. Inlet to each pump, unit requires ½" direct feed at max 60 PSI (NOTE: there are two inlets for each pump, one cold water and one hot water).
2. Outlet to each pump is 3/8" take flex hose from outlet into ½" galvanized pipe which is plumbed to each center boom. This is done for each plumbing kit.
3. For foam brush option run 3/8" copper or plastic tubing to foam boom connection on unit.
4. NOTE: Foam brush unit is mounted on pumping unit frame assembly.

Customer Responsibility

1. Hot water is required for a hot water wash. Each pump requires 3 to 4 gpm. Your options are rental or purchase an either fired by oil or propane. Check with your local oil or propane companies. 110 degrees maximum temperature.
2. Should you decide on a floor heat system, you should check with your local plumbing heating contractor.
3. A 2 hp air compressor is required for your foam brush system.
4. Electrical hook up should be noted for vacuum, you will install wires underground. Also, you will have to make a cement stand to bolt vacuum onto.
5. Bill changers and coin box size can be provided for insertion of walls.

High Pressure Pump

1. Water hose ¾"
2. Connection on pressure pump
3. 1 hot water line
4. 1 cold water line

Foam Brush

Requires 2 hp compressor
1. ¼" hose air tube from compressor to control panel
2. Water hose ¾" cold/hot this is mounted on pump stand
3. Install 1/2" air tube to foam generator

Electrical

1. Run power in to the main box of each pump system. Motors are 5 hp 220 volt 1 phase 24 amps each
2. Wire 8-16 gauge wire connections from pump controls such as hot water solenoid, cold water solenoid, soap wax and foam brush to coin box controls all wires are marked.

HP-Hose Connections

You will be required to supply or our company can supply hoses from your pump system to your booms located in each car each bay they will consist of 3/8" high pressure 3000 PSI rating.

COMPONENT IDENTIFICATION
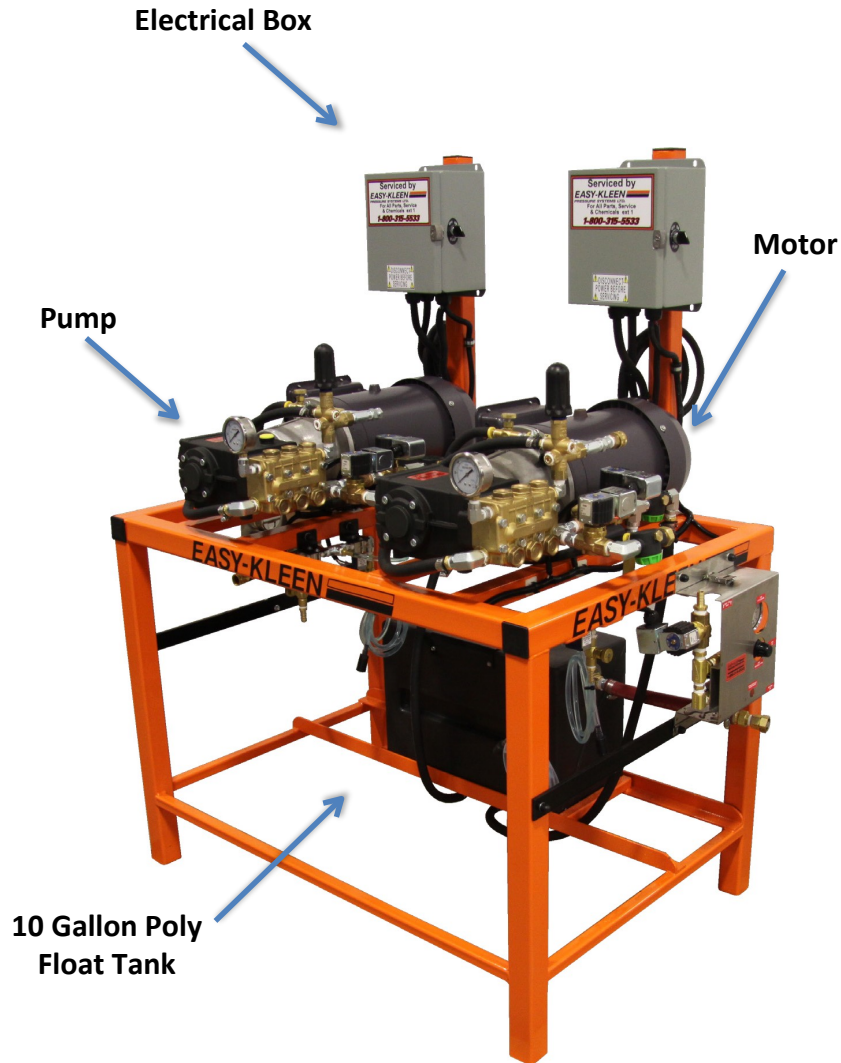
Electrical Box

Motor

Pump

10 Gallon Poly Float Tank

Pump Assembly:

Unloader

Water Outlet
Quick Connector

Motor

Pump Head
Pressure Gauge

Water Pump

Solenoid Valves

Water Inlet
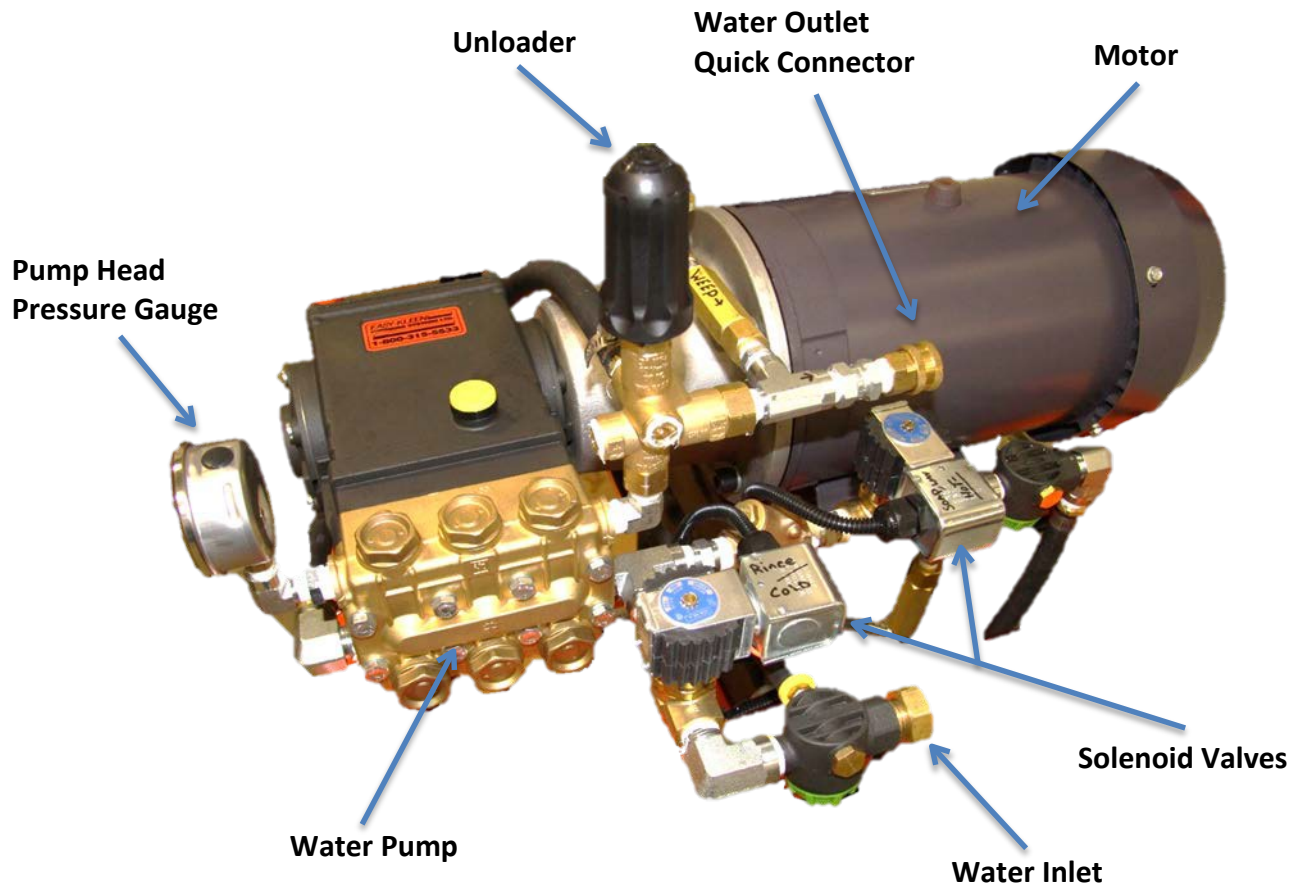
EASY-KLEEN ®
PRESSURE SYSTEMS LTD.
MANUFACTURER OF HIGH PRESSURE CLEANING EQUIPMENT

Oct 6th, 2020

MANUFACTURER'S WARRANTY

Thank you for your purchase of an Easy-Kleen pressure cleaning system. All original equipment are warrantied for a specific period and on the conditions set forth, that the product is free from defect in materials and workmanship as follows:

Electric Motors	1Phase	18 Months
	3 Phase	24 Months
	For warranty for these items manufacturer needs to be contacted	
Oil Burners	Igniters, Fuel Solenoid, Burner Motor, Fuel Assembly, Drive Shaft, Electrodes Blower, Wheel Fuel Pump	1Year Parts
Propane / Natural Gas Burners	Burner Rings, Gas Valves, Gas Valve Control Board	1Year
Fitting	All Fittings, Brass Stainless Steel, Steel, Etc.	30 Days
Heating Coils	All Coils	1Year Replacement
	Under 5100 PSI- 5 Year Prorated	25% Year each year for 4 Years
Gas Motors	Honda and Kohler have manufacturer's warranty. Manufacturer does not cover fuel systems.	
Lifan Motor	Contact Easy-Kleen for Warranty	1Year (for commercial use)
Frames	Limited warranty on Frames, Belt Guard, Welds due to manufacture defect.	
	Paint is not covered under the manufacturer's warranty due to the aggressive environment or natural wear.	
Plastic Tanks	Water or Fuel	1Year
Accessories/Wear Items	Unloader, Regulating Valves, Safety Valves, Jetter Valves, Check Valves, Foot Valves, Pulsation Dampeners, Trigger Guns, Rotary Nozzles, Chemical Injectors, Hose (Jetter Hose Not Included), Hose Reels, Sandblast Kits, Surface Cleaner, Water Broom, Water Strainer, Belts, Ball Valves, Swivels, Balanced Relief Valves, Accumulator Lances	90 Days
Electrical Components	Switches, Time Over Loads, Contactors, Transformer, Thermostat, Vacuum Switches, Flow and Pressure Switches, Relays, Primary Controls	90 Days
No Warranty Items	Fuel Filters, Nozzles, O- Rings, Thermo Relief Valves (Pump Seals, Valves, Plungers)	
ANY PARTS NOT LISTED ABOVE CALL FOR WARRANTY TIME FRAMES		

NOTE* Due to original equipment manufacturer's requirements, Easy-Kleen is not permitted to perform warranty repairs or claims for electrical motors, gas, or diesel engines. Please contact Easy-Kleen service department for a local warranty representative.

LIMITATIONS OF LIABILITY

Easy-Kleen liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall Easy-Kleen's liability exceed the purchase price of the product in question. Easy-Kleen makes every effort to ensure that all illustrations and specifications are correct, however, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product will actually conform to the illustrations or specifications. Our obligation under this warranty is expressly limited at our option to the replacement or repair at our manufacturer location, is such part or parts at inspection shall disclose to have been defective. Easy-Kleen does not authorize any other party, to make any representation or promise on behalf of Easy-Kleen or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of Easy-Kleen products conform to local codes. While Easy-Kleen attempts to ensure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product. THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Easy-Kleen reserves the right to make any changes to an Easy-Kleen product at any time without incurring any obligation with respect to any product previously, ordered, sold, or shipped.

PUMP WARRANTY TIME LINE		
Cat Pumps	Direct Drive Pumps	2 Years
	Car Wash Pumps (Including all models used in Car Wash or Portable Fresh Water Pressure Cleaning applications	5 Years
	All other pumps not listed above	1 Year
Giant Pumps	Pressure Washer and Self- Serve Car Wash Applications	5 Years
	All other Giant Pumps, Industrial and Consumer Pumps	1 Year
	Lifetime on Manifolds due to Manufacture defects	
AR Pumps	Plunger Pumps	5 Years
	Axial Pumps	1 Year
	AR Accessories	90 Days
General Pumps	Manifolds	5 Years
	Pressure Washer Pumps	5 Years
EK Pumps	Manifolds	5 Years
	Pumps	1 Year
	Accessories	90 Days
	Manufacturer does not cover wet end of Pump Seals, Valves, and Plungers.	

WARRANTY REPAIRS

Warranty claims must first contact Easy-Kleen's Service Department to be issued a preauthorized repair number (PARN). You will need a copy of your invoice and the equipment serial number.

If new parts are needed, they will be invoiced to you as normal. Defective parts are to be sent to us PREPAID for warranty consideration. If a part is found to be defective, a credit will be issued to cover the costs of parts. All work is be performed at the manufacturers' place of business when returned PREPAID. This warranty will not cover labor if warranty work is conducted at the customer's place of business. Road service will be charged at the normal rate in these situations.

WARRANTY DOES NOT COVER:

- When warranty part is warrantied the warranty time frame does not re-start.
- Warranty freight cost will be covered by Easy-Kleen for the first 30 days of sale of the machine due to manufacture defect or workmanship.
- Neglect of the periodic maintenance as specified in the owner's manual.
- Improper repair or maintenance.
- Operating methods other than those indicated in the owner's manual.
- The use of non-genuine Easy-Kleen parts or accessories other than those approved by Easy-Kleen
- Exposure of chemical agents, such as: Sea Water, Sea Breeze, Salt, or other environmental phenomenon.
- Collision, fuel contamination or deterioration, neglect, unauthorized alteration or misuse.
- Warranty does not cover travel or time if a service call is needed.
- Warranty does not apply when pump or accessory is altered or used in excess of recommended speeds, pressure, temperatures, or handling fluids not suitable for pump or accessory material.
- Construction warranty does not apply to normal wear.
- Warranty does not apply to normal wear (such as but limited to seals, packing valves, plungers and sealing O-Rings), freight damage, freezing damage or damage caused by parts or accessories not supplied by Easy-Kleen.
- After 30 days freight will become chargeable.
- Warranty covers In-House Labour and Parts if manufacture defect is repaired at an Easy-Kleen approved Service Center.

WARRANTY DOES NOT COVER DEFECTS CAUSED BY:

- Improper or negligent operation or installation, accident, abuse, misuse, neglect, unauthorized modifications, including, but not limited to, the failure of the customer to comply with recommended product maintenance schedules.
- Improper repairs
- Neglected maintenance/incorrect operation (specified in the Owner/Operator's Manual
- Unapproved devices or attachments
- Water sediments, rust corrosion, thermal expansion, scale deposits or a contaminated water supply or use of chemicals not approved or recommended by Easy-Kleen Pressure Systems Ltd.
- Improper voltage, sudden voltage spikes or power transients in the electrical supply
- Usage which is contrary to the intended purpose of the equipment
- Natural calamities or disasters including, but not limited to, floods, fires, wind, freezing*, earthquakes, tornados, hurricanes and lightning strikes

*Includes damage done to components that come in contact with water as a result of freezing in a non-winterized machine.

service@easykleen.com   **1-800-315-5533**   **www.easykleen.com**

CIRCUIT DIAGRAM

CAR WASH SYSTEM

13

GREEN — FOAM
SOAK
TIRE
ENGINE
BROWN — WAX
BLACK — RINSE
ORANGE — SOAP
GREEN — PUMP
LOAD

MAGIKIST SELECTOR SWITCH ASSEMBLY

YELLOW

8

OPTIONAL EXTRA
HORN

11

18

YELLOW

TIMEDLOAD
LOAD IN
LOAD OUT
24VAC
24VAC COMMON
HORN +
HORN -
12V DC + OUTPUT
COIN SIGNAL
COIN CONTROL

DIXMOR DIGITIMER

RED

WHITE

BROWN

T1
T2
PI2CF15AJ

OPTIONAL EXTRA
HEATING ELEMENT

L1
L2
150 VA
LINE IN
24VAC

10

L1

L2

17

16

14

CAT-700-HA32A24
24V AC 50/60Hz
RELAY

W	W
R	R
BL	BL
BK	BK
Y	Y
BR	BR
O	O
GR	GR

6

7

9

RED — 24VAC
WHITE — 24VAC COMMON
BROWN — COIN SIGNAL
NOT USED

4
3
5
13
1
8
6

12

1
2
3
4
5

GREEN
FOAM SOLENOID

ORANGE
SOAP SOLENOID

BROWN
WAX SOLENOID

YELLOW
HOTWATER SOLENOID

BLACK
COLDWATER SOLENOID

MAGIKIST MAGICOIL ACCEPTOR
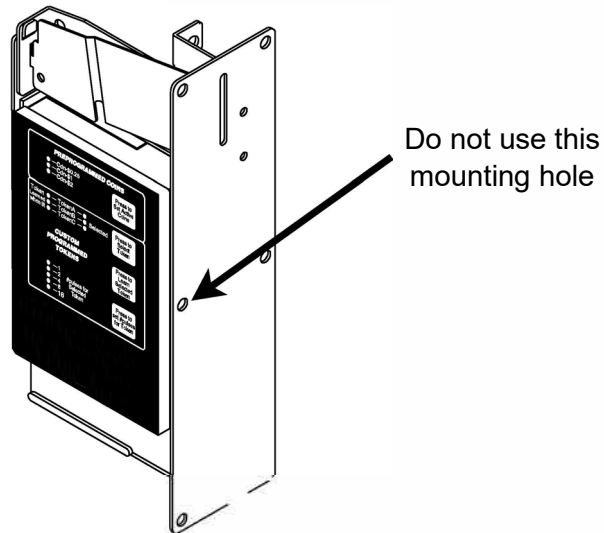ASSEMBLY. MODEL CP510

GND

WHITE

WASH BOOM

Electronic Multi-Coin Acceptor Instruction Manual

v 1.3

1) MOUNTING

Mount the body to the faceplate of the meter box using the 5 holes on the stainless steel edgemount. Ensure that it is mounted vertically and is not tilted in any direction.

Do not use this mounting hole

2) ELECTRICAL CONNECTION

The supply voltage is 24 volts AC. Do not connect to 120 volts AC. Before connecting power, check the supply voltage with an AC voltmeter. It must be 24 volts AC ±5 volts.

When turning power off and on, power must remain off for a minimum of 5 seconds before being turned back on to ensure proper power up.

The yellow and black wires are for supply voltage of 24VAC. Yellow is + and black is - (ground). Electronic pulsing units have a blue and purple wire. The blue wire is a DC switch used for pulsing that will sink a maximum of 200mA at 5-40VDC to black (ground). The purple wire is an AC switch used for pulsing that will sink a maximum of 500mA up to 600VAC to black (ground). Relay pulsing units have two red wires (non-polarized) that utilize a normally open contact rated at maximum 1A, 125VAC, 60VDC to pulse.

Following are the wiring connections for several brands of timers. If your timer is not listed, consult your supplier for further information.

MagikTimer MT580 or iTimer MT580U

YELLOW-24VAC HOT #2 terminal

BLACK-COMMON #3 terminal

BLUE-COIN SWITCH+ #6 terminal

Grace Timer & *PEM7 timer*

YELLOW-#3 terminal

BLACK-#1 terminal

BLUE-#4 terminal

Dixmor DigitTimer a

YELLOW-red wire on timer

BLACK-green wire on timer

BLUE-brown wire on timer

Ginsan GS7 *timer*

YELLOW-24VAC #3 terminal

BLACK-24VAC #1 terminal

BLUE-#4 terminal

3) DISPLAY PANEL AND BUTTONS

The display panel and pushbuttons are utilized for setup and self-diagnostics. The display panel has several indicator lights that show power status, which coins are currently accepting, and setup information regarding tokens. The pushbuttons allow one to change the coins that the are to be accepted and to set the tokens (if any) that are being accepted .

4) DISPLAY DURING POWER UP

During the initial power up sequence, the display shows the current settings for several options. For the first second after power up, the 5 indicator lights 1,2, 4, 8, and 16 for #pulses for Selected Token show the current Token Sensitivity setting, the Pulse Speed setting, and the Preprogrammed Coins Number of Pulses Setting. Immediately following this, indicator lights 1 and 2 for #pulses for Selected Token will display for approximately 1 second to show normal power up. Finally, the normal operating display will show the current coin and token settings

For more information on the Token Sensitivity setting, the Pulse Speed setting, and the Preprogrammed Coins Number of Pulses setting, see the appropriate section that follows.

5) CANADIAN QUARTER, LOONIE AND TOONIE SELECTION

There is preprogramming that allows for the acceptance of one or all, Canadian quarter, $1 (loonie) and $2 (toonie) coins. Once powered up, the display panel shows which coins are activated to accept. For example, if the indicator lights for Cdn-

$0.25 and Cdn-$1 are lit as in figure 5.1 , then both the Canadian quarter and $1 coin will be accepted. If the indicator lights for Cdn-$1 and Cdn-$2 are lit, as in figure 5.2, then both the Canadian $1 and $2 coins are accepted.

To change which coins that are activated to accept, press the button labeled Press to Set Active Coins. Pressing this button will change the activated coins that are to be accepted as shown by the display panel. By repeatedly pressing the button you will arrive at the coin setting you wish to be accepted.

Because the coins that are accepted have different values, different number of pulses will be sent to the timer depending on which coin is accepted. Only 1 pulse will be sent to the timer for the lowest value coin that is set to accept. Multiple pulses will be sent to the timer for higher value coins that are accepted. Figure 5.3 shows the different coin selection settings and the corresponding number of pulses that will be sent to the timer. Ensure that your timer is setup correctly based on the number of pulses that are sent for the coins that you have enabled it to accept.

It is possible to change the settings so that it will always send 1 pulse for a quarter, 4 pulses for a $1 coin, and 8 pulses for $2 coin regardless of which coins are enabled. Please see section 9 for more information.
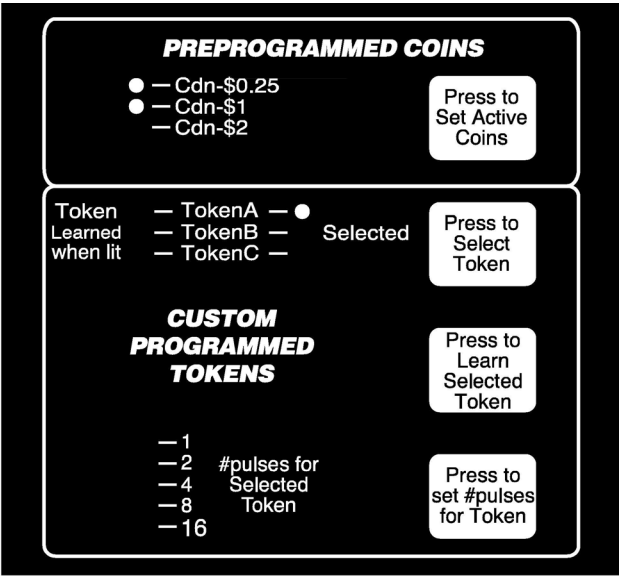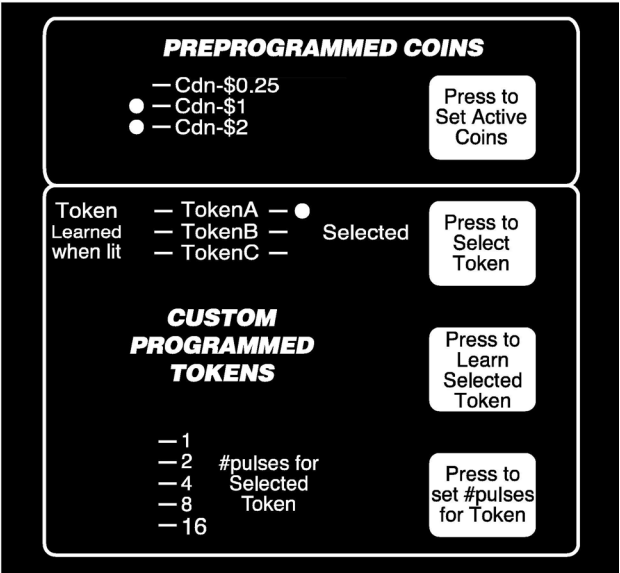
PREPROGRAMMED COINS

● — Cdn-$0.25
● — Cdn-$1
— Cdn-$2

Press to Set Active Coins

Token Learned when lit
— TokenA — ●
— TokenB —
— TokenC —
Selected

Press to Select Token

CUSTOM PROGRAMMED TOKENS

Press to Learn Selected Token

— 1
— 2
— 4
— 8
— 16
#pulses for Selected Token

Press to set #pulses for Token

figure 5.1

PREPROGRAMMED COINS

— Cdn-$0.25
● — Cdn-$1
● — Cdn-$2

Press to Set Active Coins

Token Learned when lit
— TokenA — ●
— TokenB —
— TokenC —
Selected

Press to Select Token

CUSTOM PROGRAMMED TOKENS

Press to Learn Selected Token

— 1
— 2
— 4
— 8
— 16
#pulses for Selected Token

Press to set #pulses for Token

figure 5.2

Display	#Pulses per Coin		Display	#Pulses per Coin
-Cdn-$0.25 -Cdn-$1 -Cdn-$2			-Cdn-$0.25 -Cdn-$1 **e** -Cdn-$2	- 1
e - Cdn-$0.25 -Cdn-$1 -Cdn-$2	- 1		**e** - Cdn-$0.25 -Cdn-$1 **e** -Cdn-$2	- 1 - a
-Cdn-$0.25 **e** -Cdn-$1 -Cdn-$2	- 1		-Cdn-$0.25 **e** -Cdn-$1 **e** -Cdn-$2	- 1 - 2
e - Cdn-$0.25 **e** -Cdn-$1 -Cdn-$2	-1 - 4		**e** - Cdn-$0.25 **e** -Cdn-$1 **e** -Cdn-$2	-1 - 4 - a

figure 5.3

6) TOKEN SETUP

The Easy Kleen Coin Acceptor can be easily programmed to accept up to 3 different tokens of your choice. Ensure that you have selected good quality tokens, and that other operators in your area are not using a similar size token of the same alloy. The Easy Kleen Coin Acceptor is compatible with most tokens.

Consult your distributor who can then confirm that the token you have selected is compatible with the Easy Kleen Coin Acceptor.

The tokens that the Easy Kleen Coin Acceptor learns are stored as TokenA, Tokens, or TokenC. The panel display of the Easy Kleen Coin Acceptor shows TokenA, Tokens, and TokenC, and which of these tokens is currently learned. If the indicator light under Learned next to TokenA, Tokens, or TokenC is lit, then that token has already been learned. For example, figure 6.1 shows a setting where TokenA and TokenC have been learned. All learned tokens will be accepted by the Easy Kleen Coin Acceptor.
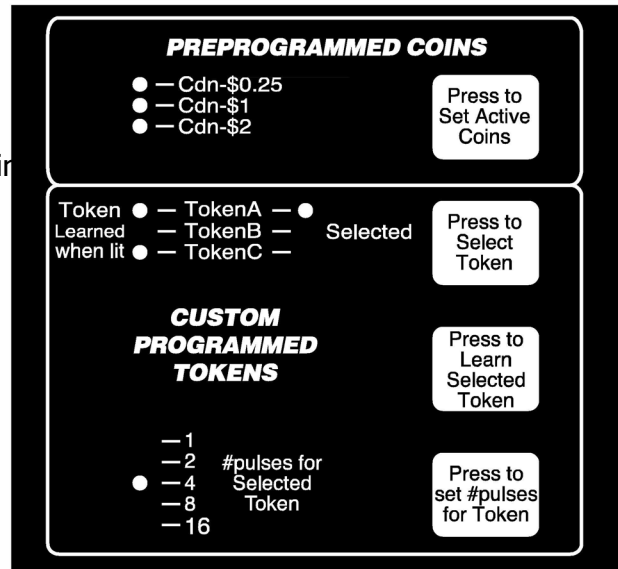
figure 6.1

The currently lit indicator light under Selected shows which token is currently selected. Pressing the pushbutton labeled Press to Select Token advances the indicator light under Selected to the next token. For ~~figure 6.1~~ example, if the indicator light under Selected and next to Tokens was lit, pressing the Press to Select Token pushbutton would light the indicator light next to TokenC. Pressing the pushbutton again would now move the indicator light to TokenA.

The indicator lights 1, 2, 4, 8, and 16 for #pulses for Selected Token show the total number of pulses that will be sent when the currently selected token is accepted. The total number of pulses that will be sent is the sum of all the indicator lights 1, 2, 4, 8, and 16 for #pulses for Selected Token that are lit. If all indicator lights for #pulses for Selected Token are off for the current learned token, then 32 pulses will be sent. If the currently selected token is not learned, then all the indicator lights 1, 2, 4, 8, and 16 for #pulses for Selected Token will not be lit.

To learn a token, first decide whether the token is to be stored as TokenA, Tokens, or TokenC. The indicator light for that token under the Selected column must then be lit for that token to be the currently selected token. If necessary, press the Press to Select Token button to sequence the indicator lights under the Selected column until the indicator light next to your choice of TokenA, Tokens, or TokenC is lit.

Press the pushbutton labeled Press to Learn Selected Token to start the learn process. The indicator light under the Learned column next to the currently selected token will begin to flash slowly. At this point you have 10 seconds to drop through the Easy Kleen Coin Acceptor TWO samples of the token you wish to program, one sample at a time. If the sample is read correctly by the Easy Kleen Coin Acceptor then it will accept it and make a noticeable

"click" of its kicker. After both samples have been accepted by the Easy Kleen Coin Acceptor, the indicator light under Learned next to the current selected token will be lit, indicating that the token has been learned.

At this time you will need to press the Press to set# pulses for Token pushbutton until the panel display showing the #pulses for Selected Token is set so that your token will give the correct number of pulses (and thus the correct value) to the timer when the token is accepted.

You may at anytime "unlearn" a token. Make sure that the token you wish to erase is the currently selected token. Then press the Press to Learn Selected Token pushbutton. The indicator light under the Learned column next to the currently selected token will begin to flash. Wait for 10second without dropping any coins, after which the learned indicator light for the selected token will turn off signifying that the token is now erased.

7) TOKEN SENSITIVITY

The Easy Kleen Coin Acceptor provides a means that allows you to adjust how fine it discriminates tokens. For the first second after power up, the indicator lights 2, 4, and 8 for
#pulses for Selected Token show the current token sensitivity setting. Low sensitivity, being the least discriminatory, is shown by the 2 indicator light, medium by the 4 indicator light, and high by the 8 indicator light. The higher the sensitivity the more strict the Easy Kleen Coin Acceptor will be inaccepting tokens.

In normal use the sensitivity setting of the Easy Kleen Coin Acceptor may be left at medium. However, if you find that a particular token of yours has variations in its metallic content which cause the Easy Kleen Coin Acceptor to accept some tokens while rejecting others, you may wish to adjust the sensitivity setting to low. Likewise, if the Easy Kleen Coin Acceptor is accepting a token that is it has not learned, you may wish to change the sensitivity setting to high (NOTE: The high sensitivity setting may not enable the Easy Kleen Coin Acceptor to differentiate between 2 tokens of the same metal content that vary only slightly in size).

To change the sensitivity setting:

    i)   Power down the Easy Kleen Coin Acceptor.

    i)   Press and hold the appropriate pushbutton for the desired sensitivity setting:

                Low - Press to Select Token

                Medium - Press to Learn Selected Token

                High - Press to set# pulses for Token

  i) Power up the Easy Kleen Coin Acceptor while continuing to hold the pushbutton you have

chosen until the indicator lights come on. The new sensitivity setting will be displayed on the indicator lights 2, 4, and 8 for #pulses for Selected Token during this time.

The sensitivity setting applies only to tokens and does not affect how the Easy Kleen Coin Acceptor evaluates the preprogrammed quarter or $1 coin.

8) PULSE SPEED

Some older timers may not be fast enough to correctly accept multiple pulses from the Easy Kleen Coin Acceptor Coin Acceptor. These timers require a slower pulse speed from the Easy Kleen Coin Acceptor Coin Acceptor. The speed at which the Easy Kleen Coin Acceptor sends pulses to the timer can be easily set to either normal speed or slow speed.

For the first second after power up, the indicator light 1 for #pulses for Selected Token shows the current pulse speed setting. If this light is on, pulse speed is normal. Conversely, if this light is off, pulse speed is slow.

To change the pulse speed setting of the Easy Kleen Coin Acceptor from its current setting, first verify what the current setting is by examining the indicator light 1 for #pulses for Selected Token at power up. Then if you wish to change the current setting:

   i)   Power down the Easy Kleen Coin Acceptor.

   i)   Press and hold the Press to Set Active Coins pushbutton.

   i)   Power up the Easy Kleen Coin Acceptor while continuing to hold the pushbutton until the indicator lights come on. The new pulse speed setting will be displayed on the indicator light 1 for #pulses for Selected Token during this time.

9) PREPROGRAMMED COINS NUMBER OF PULSES

As described in section 3), the Easy Kleen Coin Acceptor the number of pulses sent by the Easy Kleen Coin Acceptor for the Cdn quarter, $1 coin, and $2 coin, is dependent on which of these coins are enabled and disabled. This setting for the number of pulses for the preprogrammed coins is called the variable pulse setting.

It is possible to change this setting so that the Easy Kleen Coin Acceptor will always send 1 pulse for a quarter, 4 pulses for a $1 coin, and 8 pulses for $2 coin regardless of which coins are enabled. This setting for the number of pulses for the preprogrammed coins is called the fixed pulse setting.

For the first second after power up, the indicator light 16 for #pulses for Selected Token shows the current preprogrammed coins number of pulses setting. If this light is on, the preprogrammed coins number of pulses is fixed. Conversely, if this light is off, the preprogrammed coins number of pulses is variable.

To change the preprogrammed coins number of pulses setting:

   i)   Power down the Easy Kleen Coin Acceptor.

   i)   Press and hold both the Press to Set Active Coins pushbutton and Press to Select Token pushbutton.

   i)   Power up the Easy Kleen Coin Acceptor while continuing to hold the pushbutton until the indicator lights come on. The new preprogrammed coins number of pulses setting will be displayed on the indicator light 16 for #pulses for Selected Token during this time.

Ensure that your timer is setup correctly based on the number of pulses that the Easy Kleen Coin Acceptor will send for the coins that you have enabled it to accept.

10) HINGED DOOR ACCESS

Should a bent or damaged coin become stuck in the coin acceptor, the Easy Kleen Coin Acceptor CP900 features full access to the internal coin path. By gently pulling back on the right side of the display panel as shown in figure 10.1, the hinged door will pull back to allow cleaning and removal of damaged coins.
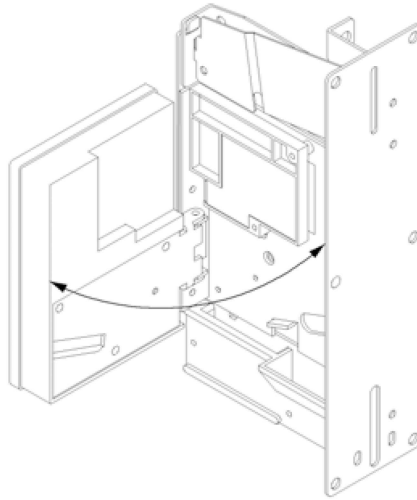
figure 10.1

A. APPENDIX

For future reference, write down the serial# located on the bottom of the black box of the coin acceptor. In addition, when learning tokens, record the details of each token on the following lines:

SERIAL# _ _ _ _ _ _ _ _ _ _

TokenA Description _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

TokenB Description _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

TokenC Description _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

FOAM BRUSH SYSTEM
MODEL FBR1
– BAY CONNECTIONS –

3/8" HIGH PRESS. SWIVEL

3/8" x 17'-0" DROP HOSE ASSEMBLY

1/2" x 3/8 SWIVEL ADAPTOR

BRUSH WAND

BRUSH HEAD

BRUSH

BOOM ASSEMBLY

SEE CONNECTION DETAIL BELOW

WALL BRACKET

FOAM GENERATOR CLAMP

INSTRUCTION SIGN

WALL

1/2" x 3/8" 90 DEG SWIVEL

3/8" PUSH-ON HOSE BARB

3/8" CONNECTOR HOSE

FOAM GENERATOR

BOOM SWIVEL ASSEMBLY

3/8" PUSH-ON HOSE BARB

1/2" COMPRESSION FITTING

1/2" tubing
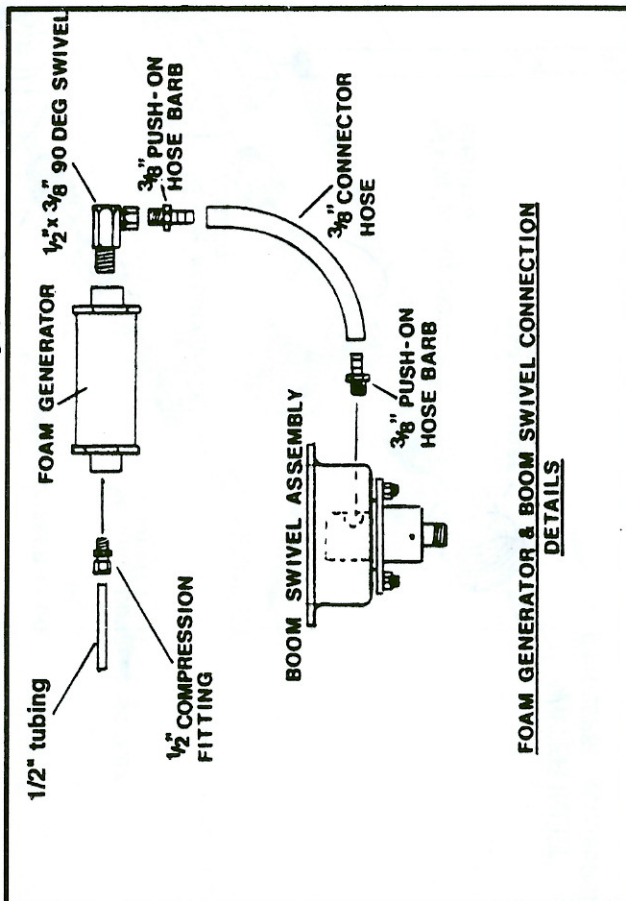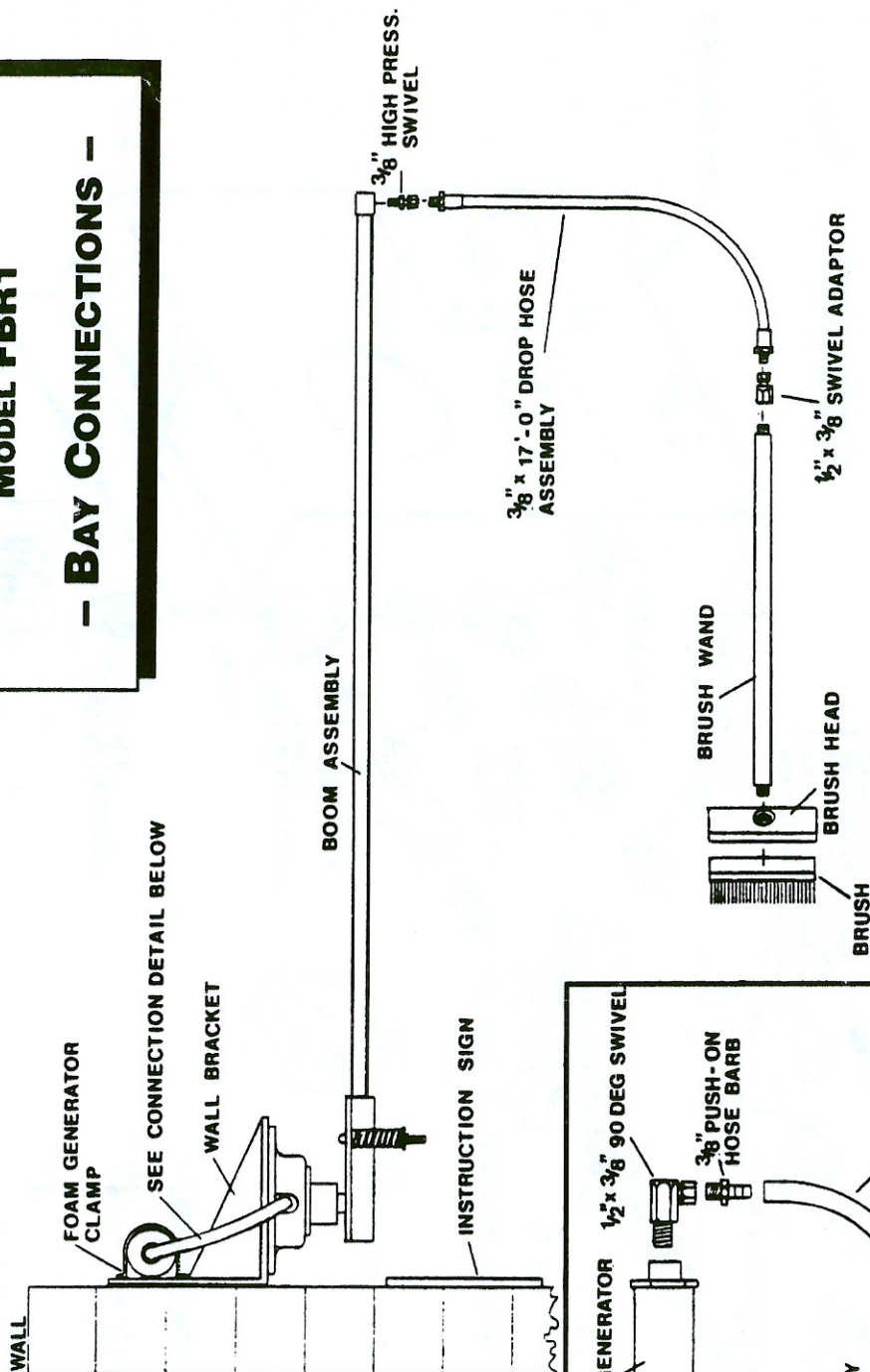
FOAM GENERATOR & BOOM SWIVEL CONNECTION DETAILS

ADJUSTMENT

1. Ensure minimum of 35 P.S.I. water inlet pressure.

2. Turn water on, place solution line in foaming soap solution, and turn air off at pressure regulator (0 pressure)

3. Energize solenoid valve to allow water flow through solution injector, and adjust solution injector by turning small adjustment screw such that a good amount of foaming soap is being drawn up through the solution line into the solution injector.

4. Slowly turn pressure regulator so that air pressure increases to the point that foaming soap solution stops being drawn up into solution injector.

5. Turn pressure regulator back slightly to decrease air pressure until foaming soap solution is once again being drawn up into solution injector.

MOUNTING ASSY.

1/2" tubing

1/2" COMPRESSION FITTING

1/2" SOLENOID VALVE

1/2" x 3/8" REDUCING NIPPLE

3/8" TEE

3/8" x 1/4" REDUCING NIPPLE

1/4" CHECK VALVE

3/8" STREET ELBOW

3/8" CHECK VALVE

3/8" x 1/8" REDUCING BUSHING

3/8" HEX NIPPLE

1/4" HEX NIPPLE

SOLUTION INJECTOR
.04 ORIFICE FACTORY INSTALLED..02 & .03 ARE SUPPLIED AND CAN BE CHANGED IF REQUIRED

SOLUTION LINE INCL. STRAINER

1/2" x 1/4" REDUCING BUSHING

GARDEN HOSE SWIVEL

STRAINER

1/4" x 1/8" REDUCER ADAPTOR

AIR INLET

1/4" QUICK COUPLER SOCKET (shut off type)

1/4" QUICK COUPLER PLUG

1/4" HEX NIPPLE

ADJUSTABLE PRESSURE REGULATOR

AIR PRESSURE GAUGE

WATER INLET (MIN-35PSI MAX-80PSI)

FOAM BRUSH SYSTEM
MODEL FBR1
– CONTROL PANEL –