



**Installation and Operating Manual
3900/4000 Series, Spec 2000 & Up
Mechanical Computing Fuel Dispensers**

Table of Contents

Safety Instructions	3
Introduction.....	4
Specification Sheet (Power & Environmental Requirements).....	6
Unloading, Unpacking, and Inspecting a New Dispenser	6
Lifting a New Dispenser and Placing It on the Island	7
Mechanical and Plumbing Notes	8
Electrical Field Wiring.....	8
Purging Product Lines for Remote Dispensers.....	8
Piping Notes for Self-Contained (Suction) Pumps	9
SB-100 Mechanical Meter Calibration	10
Operator Instructions	11
Owner Maintenance	12
Maintenance by Bennett Authorized Service Representatives	13
Electrical Potting Instructions.....	14
Bennett Limited Warranty for Products Installed in the United States	15

Safety Instructions

WARNING: For the safe operation of this equipment, read and understand all safety notices.

“**DANGER**” means: If you do not follow the instructions, severe injury or death **will** occur.

“**WARNING**” means: If you do not follow the instructions, severe injury or death **can** occur.

“**CAUTION**” means: If you do not follow the instructions, damage can occur to the equipment.

DANGER: Fire, explosion, injury or death will occur if fuel filters are changed by untrained personnel. Make sure only trained personnel change filters.

DANGER: To prevent injury to you from vehicles and onlookers, always place a barrier around this equipment before performing service or maintenance.

DANGER: Gasoline is flammable. NO SMOKING OR OPEN FLAME WITHIN 100’ OF THE EQUIPMENT.

DANGER: Disconnect all power to this equipment and associated submerged pump(s) during installation, service, or any maintenance. Follow the instructions in this DANGER notice when changing filters.

DANGER: To prevent electric shock, keep the electrical parts of the equipment dry.

WARNING: You must have training in the operation of this equipment before using it.

WARNING: You must have training in the service or maintenance of this equipment before attempting any repairs or maintenance.

WARNING: Do not operate this equipment unless it is completely assembled to original factory design.

WARNING: Make sure this equipment is correctly grounded. Failure to do so can cause injury or damage to the equipment.

CAUTION: Do not drill holes in the equipment without written and instructions authorization from the factory. Holes can cause failure of the electrical components. The warranty will be voided. If installing signage on top of the equipment, use only mounting brackets that use adhesive backed tape.

READ AND UNDERSTAND ALL SAFETY LABELS AND TAGS ATTACHED TO THE DISPENSER. DO NOT REMOVE ANY OF THE SAFETY LABELS OR TAGS FROM THE DISPENSER.

NOTICE: This equipment generates and uses a radio frequency energy. If not installed and used properly, i.e. in strict accordance with the instructions in the manual, it may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device in accordance with Subpart J of Part 15 of FCC Rules. Class A computing devices are designed to provide reasonable protection against such interference when operated in a *commercial* environment.

Operation of the equipment in a residential area may cause unacceptable interference to radio and TV reception. In such instances, any necessary corrective measures must be accomplished at the owner’s expense.

Introduction

Spec 2000 & up Mechanical Fuel Dispensers

The 3900 series Fleetmaster and the 4000 series Heritage are mechanical computing fuel dispensers. The 3900 series Fleetmaster uses a Veeder-Root non-computer to display the volume dispensed. The 4000 series Heritage uses a Veeder-Root computer to display the volume dispensed, the price-per-volume, and the money dispensed.

Both series are available in self-contained (suction pump) or remote dispenser hydraulic configurations.

Fleetmaster	Heritage	# Hose Outlets	# Product Inlets	Standard Motor
3912	4012	1	1	Remote
3922	4022	2	2	Remote
3924	3924	2	1	Remote
3913	4013	1	1	1/3HP, Int-Duty
3913D	4013D	1	1	3/4HP, Cont-Duty
3927	4027	2	1	3/4HP, Cont-Duty
3925	4025	2	2	(2) 1/3HP, Int-Duty
3925D	4025D	2	2	(2) 3/4HP, Cont-Duty
				NOTE: 1/2HP Cont-Duty Motors are available as an option in place of 1/3HP

Both series in the Remote Dispenser hydraulic configuration use a two stage electric solenoid valve(s) on the discharge side of the meter to ensure that fuel pressurized by the submerged turbine pump(s) cannot flow through the dispenser unless it has been turned on. Additionally, the 3927/4027 1-product twin dispenser uses the same solenoid valve on each of the meter discharges to limit the flow of fuel only to activated hoses. The two-stage style of solenoid valve used allows preset/prepay signals from external control devices (fuel consoles, for example) to accurately stop flow at a predetermined amount.

The 3913/4013 and 3925/4025 self-contained pumps offer the two-stage valve as an option (commonly called the *prepay option*).

Both 3900 Fleetmaster and 4000 Heritage series dispensers have the following features as standard:

Veeder-Root Electric Reset

Bennett SB-100 4-Piston Meter

Bennett Type 75 or Type 75D Heavy Duty Pumping Unit with Integral Vortex Air Eliminator in all self-contained (suction) pumps

35-micron replaceable paper filter cartridge in all remote dispensers

70-micron reusable stainless steel strainer in all self-contained pumps.

Ground Joint Unit for all product inlets.

Junction box terminal strip located in the ballast box accessed by removing the top cover of the dispenser.

Inlet check valve in all remote dispensers.

1" NPT Female hose outlet elbow with 1" x 3/4" reducer bushing.

Clear acrylic dial face inserts.

Brushed stainless steel top, upper end panels, and lower end panels.

White dial covers.

Painted lower front and rear doors with lock.

Internal pipe connection for companion satellite dispensers (slaves).

UL Listed

N.I.S.T. Certificate of Conformance (commonly called Weights & Measures or Metrology approval)

3900 Fleetmaster series dispensers have the following additional features and options:

Standard Items:

4-Rotor Veeder-Root Non-Computer with 7-digit Totalizer

Un-lighted Product Panel/Dial Face

Hose Hanger Hook

Options:

Lighted Product Panel/Dial Face

Cam-Ac Manual Reset instead of Electric Reset.

Internal 10-micron spin-on filter for remote dispensers.

Field Installed Internal Hose Retractor.

Balanced Vapor Recover Nozzle Boot and Handle Kit (Field Installed).

Stainless Steel Lower Front & Rear Doors.

Prepay/Preset Option to add 2-stage solenoid valve on models 3913/3925. (Standard on other models)

10:1 or 100:1 ratio Veeder-Root Pulser.

4000 Heritage series dispenser have the following additional features and options:

Standard Items:

4-Rotor VR10/4 or VR10 retail computer with 7-digit volume totalizer. NOTE: VR10 is optional in USA.

Internal, automatic hose retriever

Lighted Product Panel/Dial Face

Options:

Cam-Ac Manual Reset instead of Electric Reset.

Internal 10-micron spin-on filter for remote dispensers.

Balanced Vapor Recover Nozzle Boot and Handle Kit (Field Installed).

Stainless Steel Lower Front & Rear Doors.

Prepay/Preset Option to add 2-stage solenoid valve on models 4013/4025. (Standard on other models)

10:1 or 100:1 ratio Veeder-Root Pulser.

Specification Sheet (Power & Environmental Requirements)

POWER REQUIREMENTS:

Motor Power – Standard Motors are 115/230v, 60/50 Hz (Factory default setting of the motor switch is for 115v. Change switch for 230v operation). An optional 220/380v 3-Phase motor is available.

Electric Reset – 115volt 50/60Hz or 230volt 50/60Hz depending upon customer specification at time of order.

Fluorescent Lamps – Ballast is one of four types: 115v 60Hz or 115v 50Hz or 230v 60Hz or 230v 50Hz depending upon customer specification at time of order.

Two Stage Electric Solenoid Valves – 115v 50/60Hz or 230v 50/60Hz depending upon customer specification at time of order.

ENVIRONMENTAL REQUIREMENTS:

Operating Temperature Range: -40° C to +40° C

Humidity: 0—95% noncondensing

Unloading, Unpacking, and Inspecting a New Dispenser

Bennett dispensers are bolted to a sturdy wooden pallet and then carefully packaged with cardboard/styrofoam liners and a cardboard exterior carton. The entire package is then securely wrapped with plastic shrink wrap. Use a fork lift to lift the dispenser while it is still on the wooden pallet.

Before signing the freight delivery receipt, inspect the carton and pallet for any obvious signs of damage that may have damaged the dispenser. If any damage is found, instruct the delivery driver to make a notation on the delivery receipt before you sign. If possible, open the carton and inspect the dispenser before signing the delivery receipt.

Bennett dispensers are shipped fob our factory. This means that the title to the equipment passes to the purchaser at the time the equipment is loaded on the truck at our factory. Freight damage claims are the responsibility of the purchaser. Bennett will assist you in preparing any damage claim, by helping you identify and price any parts necessary to make needed repairs.

Carefully remove the plastic shrink-wrap from the carton. Then carefully remove the cardboard container and any inside liners. **DO NOT DISCARD THE PACKAGING.** Should the need arise to repackage the dispenser, the cardboard packaging can be reused. Plastic shrink-wrap can be purchased at office supply stores or industrial packaging stores.

Examine the exterior panels for any signs of freight damage. Should you encounter any damage after signing for delivery, call the freight carrier immediately and request an inspection. **DO NOT DISCARD THE PACKAGING;** the inspector will want to examine it.

Once you are sure that there is no freight damage to the exterior of the dispenser, use the door key (wire tied to the nozzle hook) to unlock the lower door. Once the lower door is unlocked, remove the upper dial covers by pulling gently at the bottom, and place in a secure place being careful not to scratch the painted surfaces. Once the upper dial cover has been removed, lift up and then out to remove the lower door. Place the lower door in a secure place, being careful not to scratch the painted surface. Remove the dial cover and lower door from both sides of the dispenser.

Visually examine the interior of the dispenser for shipping damage. While the dispenser is extremely sturdy, a dispenser that has been “dropped” can suffer damage internally even while it appears normal on the exterior. Check for and tighten any bolts or nuts that appear loose.

Read the model/serial plate on the end panel of the dispenser and check to confirm that the hydraulic configuration is what your order specified.

Report any problems to Bennett Customer Service:

In USA, telephone (800) 235-7618 or outside the USA, telephone (231) 798-1310; or via FAX to (231) 799-6202; or via email to techhelp@bennettusa.com. Or write to us at:

Bennett Pump Company or Bennett Commercial Pump Company
1218 E. Pontaluna Road
Spring Lake, Michigan, USA 49456

Lifting a New Dispenser and Placing It on the Island

The dispenser is bolted to a wooden pallet with two bolts and nuts. With the front & rear dial covers and lower doors removed and safely stored away, remove the nuts and bolts that secure the dispenser to the wooden pallet.

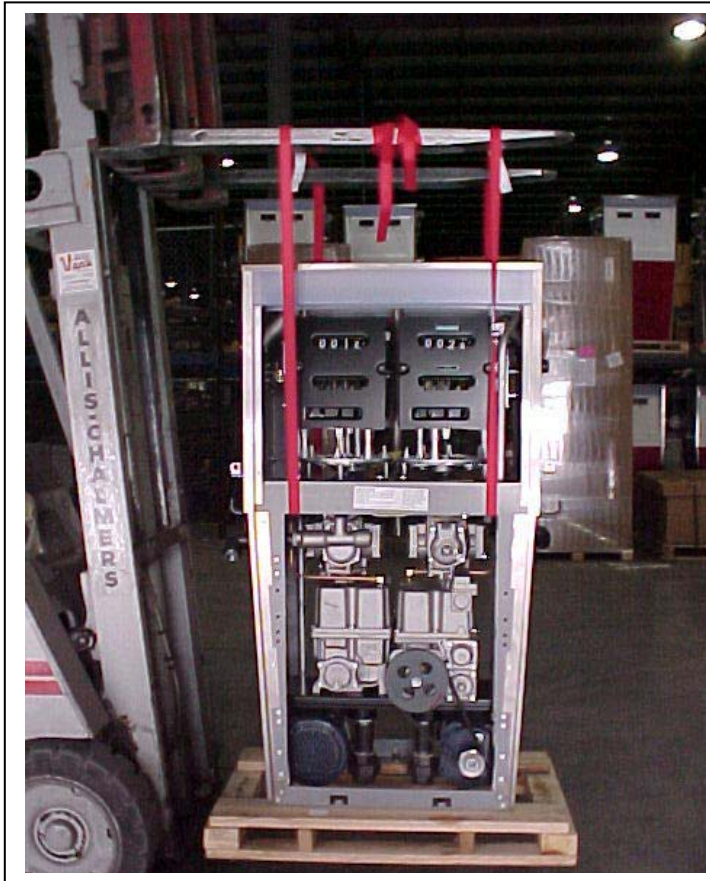


Fig. 1

Thread two lifting straps (900 lbs. Capacity each) through the dispenser as shown in Figure 1. Be careful not to allow the straps to go under any of the hydraulic castings such as the meter outlet. The straps should be lifting only against the front and rear chassis. Use a forklift or pallet lifting device with the forks spread wider than the pump and gently lift the dispenser. Place the dispenser gently on the island using care to line up the base anchor bolt holes with the anchor bolts embedded in the concrete island.

WARNING: Lift only to the height required to set the dispenser on the island. Keep hands and feet clear of the dispenser while it is suspended in the air.

The dispenser must be bolted firmly to the concrete island with two bolts. The dispenser base is provided with anchor bolt holes (see base foundation drawings in this manual for dimensions). Anchor bolts embedded in the concrete island must be not less than 1/2" diameter. The threaded ends of the anchor bolts should project 1-1/2" above the concrete.

Mechanical and Plumbing Notes

For remote dispensers, a U.L. Listed Emergency Shutoff Valve is required for each product inlet. The Emergency Shutoff Valve is sometimes referred to as an “Impact Valve”, “Safety Valve”, “Crash Valve”, or “Fire Valve”. The Emergency Shutoff Valve must be supported by the island frame or containment sump frame. Follow all instructions contained in the valve’s installation manual and observe all local codes.

For self-contained (suction) pumps, a vertical check valve is required under each of the pump’s ground joint unions for the product inlet. The vertical check valve ensures that the pump’s hydraulic system remains full of product, and it is necessary to maintain the “prime” of the suction line so that liquid product does not drain back to the tank. Follow all instructions contained in the vertical check valve’s installation manual and observe all local codes.

Product inlet locations and dimensions are in the base foundation drawings in this manual.

Tighten the pumps ground joint union to leak free tightness.

Electrical Field Wiring

From a separate set of documentation, find the wiring diagram specific to the dispenser model. Read and follow all directions including supplemental notes contained on the drawing.

The dispenser’s junction box for connection of the field wiring is in the ballast box of the dispenser. Remove the four screws securing the top cover of the dispenser to access the wiring terminal.

Electrical contractors must pull 72” of wire above the grade level to reach through the dispenser’s conduit and into the ballast box area at the top of the dispenser. Read and follow all instructions on the wiring diagram and observe all national and local electrical codes.

In instances where new dispensers are replacing old dispensers, Bennett recommends that new wiring be pulled to each dispenser.

Purging Product Lines for Remote Dispensers

Once product piping and tanks have been tested for leaks and any leak conditions have been fixed, and all electrical connections have been made and verified, the remote dispenser product lines must be purged of all air that may be trapped in the lines.

CAUTION! DO NOT USE THE DISPENSER TO PURGE AIR FROM THE PRODUCT LINES. RUNNING THE METER IN A DRY CONDITION AND AT THE HIGH SPEEDS RESULTING FROM PRESSURIZED AIR, WILL DAMAGE THE METER AND VOID THE BENNETT LIMITED WARRANTY.

The emergency shutoff valve contains a test port that may be used to bleed off air that may be trapped in the product lines. Manually close the emergency shutoff valve. Do not leave this process unattended while purging the air from the product lines. Once liquid fuel product begins to weep from the test port, retighten the plug in the test port. If more than one dispenser is on a submerged pump product feed line, start this purging process at the dispenser furthest from the submerged pump and work backwards toward the submerged pump.

WARNING! Take appropriate measures to contain any product seepage from the test port. Dispose of any spilled product in proper manner consistent with applicable laws and codes.

Manually open the emergency shutoff valve and lock it into the on position according to the instructions from the valve manufacturer. Use a test prover can or other appropriate approved container to dispense 50 gallons or 175 liters through the dispenser. Begin dispensing by only slightly opening the nozzle to allow any entrapped air in the dispenser to slowly release through the nozzle. This prevents over-speeding of the meter.

Once the dispenser has dispensed 50 gallons of fuel, the SB100 meter should be tested for calibration. Refer to the section in this manual for calibration procedures.

Piping Notes for Self-Contained (Suction) Pumps (Reference Figure 2)

To obtain maximum flow rates on a self-contained pump, follow these guidelines:

The total length of horizontal piping between the pump and tank must be no longer than 60 feet.

Use new 1-1/2" galvanized or approved non-metallic pipe for 10-15gpm pumps. Use new 2" galvanized or approved non-metallic pipe for 20-24 gpm pumps.

All horizontal piping must be buried a MINIMUM of 18" below the finished grade

The pipe from the tank must slope up to the pump (approximately 1-1/2" to 2" per 10 feet). The piping run should not have any high or low spots (hills or valleys). The pipe must be supported continuously to prevent sagging.

All piping must hold a 50 PSI pressure test for 10 minutes.

To absorb ground movement from settling of the tank, frost heaving of the ground or pump island settling, a swing joint must be used in the supply line at the tank and directly underneath the dispenser. Three additional directional changes using elbows are permitted.

Only one pumping unit is permitted for each underground pipe. Do not use a tee to connect two pumps off one line.

Static lift on self-contained units must not exceed 10 feet (vertical distance between product level in the storage tank and the center of the pumping unit).

All Installation work must conform to federal, state, and local codes.

Follow Petroleum Equipment Institute's *Recommended Practices for Installation of Underground Liquid Storage Systems RP100* and/or *Recommended Practices for Installation of Above Ground Storage Systems for Motor Vehicle Fueling RP200*.

Copies of PEI's recommended practices can be order through their web site at: www.pei.org

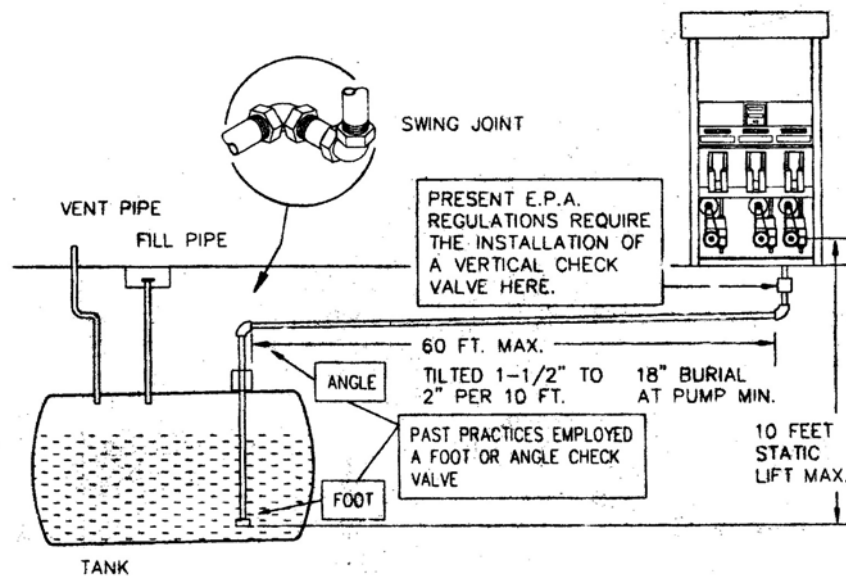


Figure 2

You should also reference the installation manuals from the manufacturer of submersible turbine pumps if installing a remote dispensing system, as well as installation manuals from pipe suppliers.

SB-100 Mechanical Meter Calibration

The Bennett SB-100 Meter is built to maintain accurate measurement under normal operating conditions. The meter is a high precision metering instrument, which contains rods and pistons, which require a break-in period. The meter is calibrated at the factory using a solvent for safety purposes, and must be calibrated after it has been installed. We strongly suggest re-calibrating the meter after a 90-day break-in period, and on a semi-annual basis thereafter.

The dial adjusting cover has (+) and (-) arrows to indicate the correct direction to rotate the dial to either increase or decrease delivery.

The dial cover has two pin hubs, one to the left of the shaft and one to the right. The seal pin may be inserted in either hub. See Figure 3. The smallest adjustment (.6 cu. in.) occurs when the pin is pulled from one side and inserted in the other side by moving the dial the least amount or half a hole. A 1.2 cu. in. adjustment is made by pulling the pin and turning the dial until the next adjacent hole aligns with the same hub and reinserting the pin.

To calibrate the meter, follow this procedure:

1. Measure the actual delivery of the meter at fast flow in an accurate test measure. Dispense a minimum of 5 gallons (20 liters).
2. Cut and remove the existing seal wire and remove the seal pin. See Figure 4.
3. Turn the dial the necessary amount in the (+) or (-) direction to increase or decrease the quantity of fuel delivered.
4. Re-insert the seal pin in the desired pin hub.
5. Dispense 5 gallons (20 liters) of fuel to allow the meter to adjust to the new settings. Do not make any adjustments based on this delivery.
6. Dispense another 5 gallons (20 liters) of fuel into an official test measure to check the calibration.
7. Reseal the meter adjustment. See Figure 4.

Example 1

1. A fast flow test at 11 GPM shows a +3 cu. in. reading in a five gallon test measure.
2. Remove the existing seal and pin and turn the dial clockwise (-) five minimum adjustments (half holes) and reinsert the pin.

3 cubic inches = 5 half holes (-) CW
.6 cu. in./adjustment

Example 2

1. A fast flow test at 25 GPM shows a -2 cu. in. reading in a five gallon test measure.
2. Remove the existing seal and pin and turn the dial counterclockwise (+) three minimum adjustments (half holes) and reinsert the pin.

2 cubic inches = 3 half holes (+) CCW
.6 cu. in./adjustment

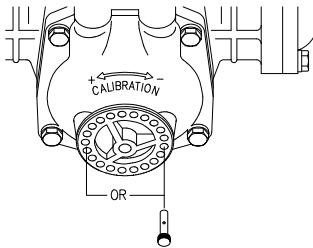


Figure 3

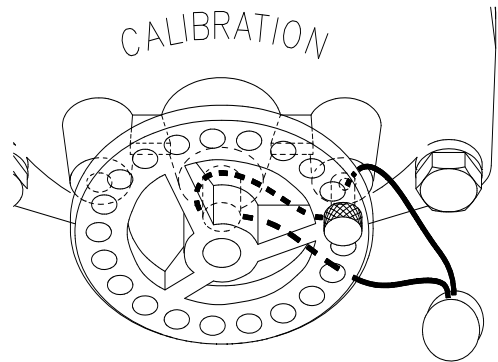


Figure 4

Operator Instructions

DANGER: Gasoline is flammable. NO SMOKING OR OPEN FLAME WITHIN 100' OF THE EQUIPMENT.

DANGER: Fire, explosion, injury or death will occur if untrained personnel change fuel filters. Make sure only trained personnel change filters.

The Bennett mechanical computing fuel dispenser is simple to operate:

1. Remove nozzle from the dispenser's nozzle boot.
2. Insert nozzle fully into the vehicle fill pipe.
3. Rotate On-Off Lever fully to the on position (See Figure 5).
 - The electric reset will turn on (you can usually hear the reset motor running)
 - The computer or non-computer dials will reset to zero.
 - The self-contained pump's motor will turn on or if it is a remote dispenser you will hear the electric solenoid valve click open.
4. Squeeze the nozzle lever and dispense the desired amount of fuel. Some nozzles will be automatic shut-off style and may be equipped with a latch open device, which can be set at several flow rate points. If the nozzle is not equipped with a latch open device, you must hold the nozzle lever open. **DANGER:** Do not attempt to block open the nozzle lever with any foreign objects.

DANGER: The operator must remain in view of the nozzle at all times while the dispenser is on or while the nozzle is removed from the dispenser's nozzle boot.

5. When the desired amount of fuel has been dispensed into the vehicle, close the nozzle.
6. Turn the dispenser's on/off handle to the off position.
7. Return the nozzle to the nozzle boot of the dispenser.
8. Replace the vehicle's fuel cap.

DANGER: No not dispense fuel into unapproved containers.



Figure 5

Owner Maintenance

Some maintenance can be done without authorized service technicians if you read and follow all the safety precautions contained in this manual. Owners can do the following items:

Visual Inspection for Leaks

Bennett recommends that a visual inspection be done at least once a month or if a leak is suspected.

WARNING: Turn off and lockout all circuit breakers associated with the dispenser to be inspected, or use the station EMERGENCY STOP BUTTON to remove all power to all dispensers.

1. Unlock the door of the dispenser, remove and carefully store the upper dial cover and lower hydraulic door.

2. Check for signs of dripping fuel or wet areas on all hydraulic connections and major components such as the meter, pumping unit, filter and filter casting, etc.

WARNING: Blockade the work area around the dispenser to protect yourself from traffic.

WARNING: Do not operate the dispenser with any doors or panels removed.

3. If any sign of leaking fuel is detected, call an authorized Bennett Service Technician immediately.

Lubricating Door Locks

Use a graphite lock lubricant and follow directions on the lubricant container. Cleanup any excess so that it will not stain the painted surfaces of the dispenser.

Internal or External Hose Retractors

Inspect daily to ensure that the nylon retractor cable is not wound around the product hose.

Cleaning Exterior

Clean all painted surfaces as needed with a mild detergent and water solution. Do NOT use a high pressure water sprayer to clean or rinse the dispenser.

Clean stainless steel surfaces with a non-abrasive cleaner intended for cleaning stainless steel. Read and follow all directions on the cleaner container.

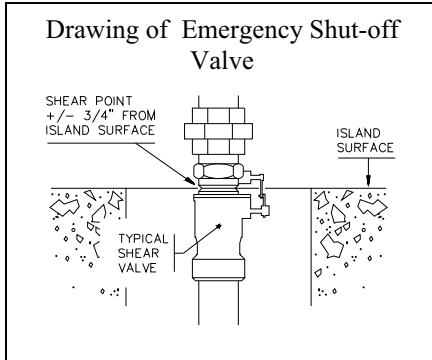
To preserve the luster and lengthen the life of all metal surfaces, use a high grade automobile paste wax. Read and follow all directions on the wax container. Clean all surfaces prior to waxing.

Do NOT use any harsh detergents, degreasers, or cleaners with abrasives.

Maintenance by Bennett Authorized Service Representatives

The following maintenance/service procedures should be performed ONLY by Bennett Authorized Service Representatives.

Manually Opening or Closing the Emergency Shut-off Valve or Testing the Valve's Operation



Emergency Shut-off Valves (Shear Valves, Impact Valves, Crash Valves) are required at the dispenser inlet for all remote dispensers. The valve incorporates a *shear section* so that the valve will close if a vehicle strikes a dispenser. The valve also incorporates a *fusible link* so that it will close in the event of a fire.

Use only Bennett Authorized Service Representatives for this type of service.

Changing Filters or Cleaning Strainers

Use only Bennett Authorized Service Representatives for this type of service.

Replacing or Repairing Hanging Hardware (Hoses, Nozzles, Swivels, Break-a-ways)

Use only Bennett Authorized Service Representatives for this type of service.

Servicing any electrical or hydraulic components

Use only Bennett Authorized Service Representatives for this type of service.

Electrical Potting Instructions

Find the appropriate footprint dimensional drawings for the Model of dispenser being installed. Read and follow all directions and safety notices.

WARNING: RISK OF ELECTRICAL SHOCK – More than one disconnect switch may be required to de-energize the device for serving.

WARNING: All doors must be replaced and locked when unit is in service.

WARNING: EXPOSED BELTS AND PULLEYS. Do not operate pump with door removed except when required for maintenance and then only by a Bennett Authorized Service Representative. Keep clear of belts and pulleys.

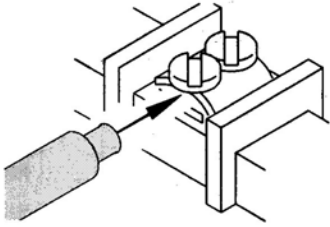
WARNING: On January 1st 1999 the NFPA added the following paragraph to the National Electrical Code, NFPA 70.

514-6. Provisions for Maintenance and Service of Dispensing Equipment. Each dispensing device shall be provided with a means to remove all external voltage sources, including feedback, during periods of maintenance and service of the dispensing equipment.

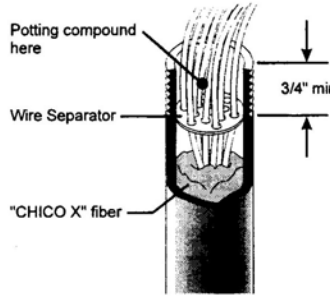
WARNING: Follow Potting Instructions on the Label Attached to the Ballast Box Cover, as shown below:

POTTING INSTRUCTIONS

1. Install field conduit dispenser per NFPA-70 along with any state and local codes.
2. Pull field wiring allowing 72 inches of extra wire to reach upper electrical enclosure.
3. Feed wire through conduit and into upper electrical enclosure.
CAUTION: Do not damage wire while feeding through conduit into the upper electrical enclosure.
4. Wrap some "CHICO X" fiber around wires and push into conduit assembly to prevent potting from running down the length of the conduit. See Figure.
5. Using the wire separator provided, install one wire in each hole until all wires are separated. See Figure.
6. Shorten field wiring to appropriate length when making connections.
7. Attach field wiring to terminal strip in upper electrical enclosure according to the wiring diagram supplied for this dispenser. See Figure.
8. Push wire separator at least 3/4" into conduit.
9. Prepare potting compound according to directions.
NOTE: Use "CHICO A3" potting compound for sealing fittings in hazardous locations.
10. Using a funnel, pour potting into conduit, be sure to get potting in between each wire. See Figure.
11. Let stand until firm.



Wires are connected to terminal strip by stripping 1/4" of the insulation off and placing wire under square plate and then tightening screw.



Potting compound here

Wire Separator

"CHICO X" fiber

3/4" min.

105335

Bennett Limited Warranty for Products Installed in the United States

Bennett Pump Company or Bennett Commercial Pump Company guarantees new Service Station Equipment manufactured by Bennett against defects in material or workmanship during the warranty period in accordance with the provisions stated below:

- The Warranty Registration Card issued with all equipment must be completed and returned at time of installation to Bennett Pump Company, Muskegon to initiate warranty.
- Warranty service must be performed by the nearest Bennett Authorized Service Representative qualified to perform service on the defective equipment. Only Authorized Service Representatives are allowed to perform warranty service. Use of service personnel other than qualified Bennett Service Representatives without prior approval by Bennett Pump Company will void payment of any warranty claims.
- Labor and travel costs incurred while servicing Bennett equipment will be paid at previously contracted rates to qualified Bennett Service Representatives with travel cost limited to 200 miles. Travel cost shall be limited to 4 hours round trip.
- Bennett equipment has been installed according to the manufacturer's instructions and diagrams.
- During the warranty period, Bennett Pump Company will, at its option, repair or replace defective parts returned to its factory, transportation charges prepaid.
- The manufacturer reserves the right to make changes in the design or to make additions or improvements with respect to its products without incurring any obligation to modify or install same on previously manufactured products.

Pumps and Dispensers - 2300 & 2400 Series

Warranty on parts, labor, and travel is 24 months from date of installation or 30 months from date of Bennett's original invoice, whichever comes first. An exception is any printer used in a pump or dispenser. For printers: parts, labor, and mileage warranty coverage is for 90 days from the date of installation not to exceed 180 days from date of Bennett's original invoice.

This warranty excludes nozzles, hoses and fittings, hose retractor, filters, belt adjustments, paper jams or light bulbs. Minor adjustments such as meter calibration, pulser adjustments, and handle switch adjustments, customer specified items manufactured by others, and customer requested reprogramming of equipment are not covered by warranty.

Pumps and Dispensers - All Other Models

Warranty on parts, labor, and travel is 12 months from date of installation or 18 months from date of Bennett's original invoice, whichever comes first.

This warranty excludes nozzles, hoses and fittings, hose retractor, filters, belt adjustments, paper jams or light bulbs. Minor adjustments such as meter calibration, pulser adjustments, and handle switch adjustments, customer specified items manufactured by others, and customer requested reprogramming of equipment are not covered by warranty.

Field Retrofitted Card Acceptor or Cash Acceptor

The field retrofit assembly is warranted for parts only for 12 months from date of installation or 18 months from date of original invoice, whichever comes first, except the receipt printer which is warranted for parts for ninety (90) days from the date of installation or 180 days from original invoice, whichever comes first.

Consumable Items such as receipt paper are not warranted. The use of receipt paper not specified by Bennett will void the printer assembly warranty.

Model 310 Pump Controllers

Warranty on parts, labor and travel is 12 months from the date of installation or 18 months from the date of original invoice, whichever comes first.

Model 405 Console and Printer

- Warranty is on replacement parts only for 12 months from the date of installation or 18 months from the date of original invoice, whichever comes first.
- Exceptions are printer assemblies which are warranted for parts only for ninety (90) days from installation or 180 days of original invoice, whichever comes first.
- Consumable items such as printer ribbons and paper are not warranted. The use of consumable items not specified by Bennett will void the printer warranty.

Model 410 and 430 Console and Printers

Warranty on parts, labor and travel is 12 months from the date of installation or 18 months of original invoice, whichever comes first.

- Exceptions are printer assemblies which are warranted for parts only for ninety (90) days from installation or 180 days of original invoice, whichever comes first.
- Consumable items such as printer ribbons and paper are not warranted. The use of consumable items not specified by Bennett will void the printer warranty.

Business Systems

Business System products will be supported through a fee based third party maintenance contract. " Depot Parts Only" warranty may apply and should be handled directly with the original manufacturer.

Software

Bennett Pump Company warrants Bennett products and software packages, whose operation is controlled by Bennett designed and developed software, shall be free of material defects and conform to current Bennett specifications for a period of ninety (90) days from the date of original invoice. Bennett shall use its best effort to correct such defects and to supply to purchaser at Bennett's expense, a corrected version within a reasonable time after purchaser notifies Bennett in writing of any defects and provides the programs and instructions required to reproduce the claimed defect.

This would not cover any modification to the program, the Bennett product, and/or connection to unapproved equipment made by any person or any defect caused by such modifications/ connections.

Upgrade Kits

Bennett offers kits which are installed at the purchaser's option to enhance operating features of an existing Bennett product. These upgrade kits are warranted for parts only for ninety (90) days from date of installation or 12 months from date of original invoice, whichever comes first. This warranty applies to kit components only. The warranty status of the remainder of the product is unchanged.

Spare Parts

For equipment under warranty: The warranty period for all spare parts replaced is the remainder of the original warranty. Spare Parts are warranted for parts only.

For equipment not under warranty: The warranty period is 90 days from the date of invoice to the end user, or 12 months from the date of original invoice, whichever comes first. Spare Parts are warranted for parts only.

General Exclusions

1. Warranty does not apply to any product which has been altered, subjected to unusual physical or electrical stress, an Act of God, damaged by accident, tampered with, or subjected to misuse or abuse including substituting parts or accessories from other manufacturers without the written consent of Bennett Pump Company. The above warranties shall not exist if the original identification marks have been removed or altered.
2. Bennett makes no warranty with respect to the Bennett equipment or Bennett's performance of services under this agreement, express or implied, and Bennett hereby disclaims the implied warranties of merchantability and fitness for a particular purpose.
3. In no event shall Bennett be liable for any loss of profits, loss of use, interruption of business or indirect, special, incidental or consequential damages of any kind in connection with or arising out of the furnishing, performance, use or failure of the Bennett equipment, software or services acquired from Bennett, the distributor or the user, whether alleged as a breach of contract or tortious conduct, including negligence. Bennett's liability hereunder for damages shall not, in any event, exceed the amounts paid by the buyer to Bennett for equipment, software or services as to which the claim arose.
4. No action arising out of any claimed breach of the Warranty Agreement or transaction under this Warranty Agreement may be brought by either party more than two (2) years after the cause of action has accrued.
5. Use of non-Bennett replacement parts, unless specified by Bennett, will void the equipment warranty.
5. This warranty only applies to Bennett equipment installed in the United States of America and Canada.
6. Failure to pay the Bennett invoice within stated invoice terms, covering the respective Bennett equipment purchased under this limited warranty may, at Bennett's discretion, void this limited product warranty.

Bennett Pump Company

Bennett Commercial Pump Company

**1218 E. Pontaluna Road
Spring Lake, Michigan USA 49456**

Tel: (231) 798-1310

Fax: (231) 799-6202

**Email: sales@bennettpump.com
techhelp@bennettpump.com**

www.bennettusa.com

www.bennettpump.com