

# BENNETT CNG DISPENSER MAINTENANCE SCHEDULE

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Serial #:

DIN #:

Company Name:

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**CAUTION: Only trained personnel may work on dispensers.**

**CAUTION: The emergency shut off valve if installed must be closed.**

**CAUTION: All traffic/personnel shall be prevented from coming within 20 feet (6 meters) of the dispenser device.**

**CAUTION: All electrical power to the device and all associated circuits must be shutoff at the main electrical disconnect.**

This maintenance schedule and log will help you keep accurate maintenance records and can help prevent avoidable down time due to equipment failure. Should you notice an error or any questionable item in this document or if further assistance is needed please contact the Bennett Technical Service Department at 1-800-423-6638. **Note:** Dispensing equipment should be checked as recommended by a trained personnel to verify proper working condition. Follow the suggested maintenance frequency and record results in the maintenance log. Keep in a readily accessible location.

\* Refer to the original manufacturer's maintenance instructions for more information.

\*\* Results - A = Acceptable; Adj = Adjustment; C = Corrected; Cal = Calibrated; N/A = Not Applicable; NR = Needs Repair; O = Other; R = Replacement

## EXTERIOR

ID #	Dispenser Components	Description	Frequency	Notes:
A1	Dispenser Doors	Check for proper orientation, scratches and dents.	Semi-Annually	
A2	Dispenser Panels	Check for proper orientation, scratches and dents.	Semi-Annually	
A3	Display Windows	Inspect for any scratches or evidence of mistreatment. Check to be sure that the displays are easy to read, lit, and clean.	Semi-Annually	
A4	Door Locks	Inspect all locks to verify that they are intact and not coming loose.	Semi-Annually	
A5	Emergency Stop Switch	Check for any scratches, dents, cracks, peeling of graphics, and visible damage.	Semi-Annually	
A6	Foundation	Anchor bolts and dispenser frame solid and in good condition.	Semi-Annually	
A7	Graphics/Decals	Inspect for any scratches, peeling, dents, discoloration or evidence of mistreatment.	Semi-Annually	
A8	Hanging Hardware	Check under and around for leaks.	Semi-Annually	
A9	Keypads	Inspect for any scratches, peeling of graphics, dents, discoloration or evidence of mistreatment.	Semi-Annually	
A10	Nozzle Boots	Check for proper operation. Inspect and verify that hardware is mounted securely.	Semi-Annually	
A11	Speaker/Call Button	Check for any noise interference and damage.	Quarterly	
A12	Structure of Frame	Check for proper alignment and loose or broken parts.	Yearly	
A13	Valance	Inspect for any scratches, dents, debris, or evidence of mistreatment. Make sure all valances are secure.	Semi-Annually	
A14	Weather Seals	Inspect all weather seals on the Electronics Door. Inspect for cracks and look for evidence of water traces. Repair if any water traces are discovered.	Semi-Annually	

## INTERIOR

ID #	Dispenser Components	Description	Frequency	Notes:
B1	Electrical Cabinet	Check for visible leaks, condensation, or damage. Inspect and verify there are no missing cover plates.	Semi-Annually	
B2	Hydraulics Cabinet	Check for visible leaks or damage.	Semi-Annually	

## ELECTRICAL

ID #	Dispenser Components	Description	Frequency	Notes:
C1	Battery	Power off the dispenser to verify that the "AC OFF" remains on the display for 30 seconds. After 30 seconds, if the battery hasn't dropped out then press the "Battery Kill" switch to verify that the battery drops out. Power up the dispenser to verify that it powers up correctly and programming is correct.	Yearly	
C2	Check Alarms (if applicable)	Check alarm operation.	Quarterly	
C3	* Conduit (Chico A05)	Verify potting compound is not cracked, broken, or aging.	Triennial	
C4	Electronic Connections	Check to make sure there are not breaks, cracks, or damage exposing conductors. Check connections for tightness.	Semi-Annually	
C5	Junction Box	Make sure all connections are tight.	Triennial	
C6	Terminal Strip	Make sure there are not any stray strands or loose terminals.	Triennial	
C7	Wiring	Visual inspection of wiring (general condition and tightness of terminal screws).	Semi-Annually	

## HYDRAULICS

ID #	Dispenser Components	Description	Frequency	Notes:
D1	Automatic Valves	Visually inspect for physical damage, contamination, leaks, or malfunctions.	Quarterly	If any of the descriptions are present, take it out of service immediately.
D2	Filters	Bleed pressure from unit properly before removing filter elements. Replace if flow is too slow or presence of oil, residue or dirt is present.	Quarterly	<b>Note:</b> The filter should be changed when the flow falls below an acceptable level, or the pressure drop becomes too high. <b>WARNING - DISCONNECT ELECTRICAL POWER AND PURGE GAS PER MANUFACTURER'S INSTRUCTIONS BEFORE SERVICING FILTER.</b>
D3	Hydraulic Fittings	Visually inspect for leaks.	Semi-Annually	Using a soapy substance, spray on hydraulic connections and inspect for "bubbles" forming. Repair any leaks. <b>Note: Do not use a soapy substance with ammonia!</b>
D4	Pressure Relief Devices	Visually inspect for leaks, damage, and if wire seal is intact.	Inspect Yearly Replace 3 years Test Every 5 years	Pressure relief valves shall be repaired, adjusted, and tested only by the manufacturer and/or trained technicians.
D5	Pressure Transmitter	Visually inspect for leaks and verify operation.	Semi-Annually	Perform a leak test.
D6	Temperature Transmitter	Verify operation and check temperature.	Quarterly	
D7	Valves - Solenoid, Check, and Ball	Verify operation, check line connectors, operating pressure, power supply, and valve control.	Triennial	

## OTHER EQUIPMENT

ID #	Dispenser Components	Description	Frequency	Notes:
E1	Breakaway Devices	Inspect for signs of damage, corrosion, partial separation, wetness, or staining.	Monthly	Replace every 3 years
E2	* Filter - Bennet Purge Air Supply Box (MERV 13)	Verify that the filter is clean and dry.	Monthly	
E3	Gas Detection Equipment	Visually inspect for damage. Run a test and calibrate.	Semi-Annually	Refer to the original manufacturers manual for specific recommended calibration periods. The gas detection system must remain functional during maintenance operations on ventilation systems.
E4	Hose and Hose Connections	Check for signs of damage (cuts, cracks, bulges, blisters, flat spots, kinks, leakage, or worn spots). Perform a hose leak test.	Monthly	Replace any damaged hoses and/or connectors.
E5	Vehicle Fueling Connections	Check the flow rate from each nozzle. Run a transaction from dispenser to ensure to leakage at nozzle.	Monthly	Replace every 3 years.

## DISPENSER TESTS

ID #	Dispenser Components	Description	Frequency	Notes:
F1	Alarms (visual or audible)	Verify signals.	Monthly	
F2	Card Reader Test	Verify that it is working properly (if applicable). <b>Note:</b> The card readers are dual sided (track 1 and track 2).	Annually	Refer to the <i>Bennett Pump SSP Programming, Service, and Parts Manual</i> for service information.
F3	Communication Test	Verify dispenser is communicating with the console.	Annually	
F4	CPU Test	Verify that the system has detected a fault.	Annually	
F5	Encryption Test	Test the injection used to encrypt the Debit Card PIN Pad (if applicable).	Annually	
F6	Gas Detection Equipment	Test and Re-Calibrate	Semi-Annually	Maintenance, inspection, calibration, and testing records must be kept for a minimum of 3 years.
F7	Handle Switch Test	Verify if the correct pump handle is displayed on the screen and activates with movement.	Annually	
F8	Hydraulics - Fill Line	Leak Test - High and Low Pressure	Annually	
F9	Hydraulics - Vent Line	Leak Test	Annually	
F10	Keyboard, Switch and Beeper Test	Verify switches for the product buttons, buttons on the programming keypad, and beeper are functioning.	Annually	
F11	PIN Pad Test (soft, numeric, and function keys)	Verify that every key on the module are functioning.	Annually	
F12	PLC Test	Verify dispensers RS485 communication with the PLC is working.	Annually	
F13	Printer Test	Receipt prints legibly and matches display. Check receipt (pump side, product, PPM, mass, and total).	Annually	Refer to the <i>Bennett Pump SSP Programming, Service, and Parts Manual</i> for more information.
F14	Product Select Test	Verify all pads on the product select board function.	Annually	
F15	Purge Test	Verify that the purge system activates and deactivates and the results of a timed purge procedure.	Annually	
F16	RAM Test	Verify if RAM is good or corrupted.	Annually	
F17	Run a Sale	Check the functionality of the product displays, product select buttons, valves, totalizers, and training screens.	Annually	
F18	Segment Test	Verify all segments of all digits are visible on the display.	Annually	
F19	SSP Communication Test	View communication performance between the POS and the Module.	Annually	Refer to the <i>Bennett Pump SSP Programming, Service, and Parts Manual</i> for service information. <b>Note:</b> Report anything less than 85%.

# BENNETT CNG DISPENSER MAINTENANCE & TEST LOG

Serial #:

DIN #:

Company Name:

ID #	Description:	Results:	Inspected by:	Inspection/Test Date:	Next Inspection/Test Date:

\* Results - Results - A = Acceptable; Adj = Adjustment; C = Corrected; Cal = Calibrated; N/A = Not Applicable; NR = Needs Repair; O = Other; R = Replacement