Hands-Free B103 Bottle Filling Station Maintenance Instructions

Sensor Activated B103 Maintenance Instructions

To remove the cover plate, unscrew the Jackman screws from both sides and slide the cover plate out.

Cartridge Regulator Replacement and Flow Adjustment:

Turn off water to the fixture and depress button on cartridge regulator to drain water left in the line.

Using the spanner wrench or needle nose pliers, unscrew the brass regulator retaining ring.

Gently wiggle cartridge back and forth to remove it from the brass valve assembly body.

Check to ensure that the old neoprene seal was also removed. Install new neoprene seal on the new cartridge regulator and install new assembly into the valve body, ensuring inlet and outlet holes on the cartridge are lined up and the cartridge is seated properly in the valve body.

Reinstall the regulator retaining ring and tighten using the spanner wrench or needle nose pliers.

Turn on water to fixture and test for flow and leaks by pushing plunger with flat screwdriver.

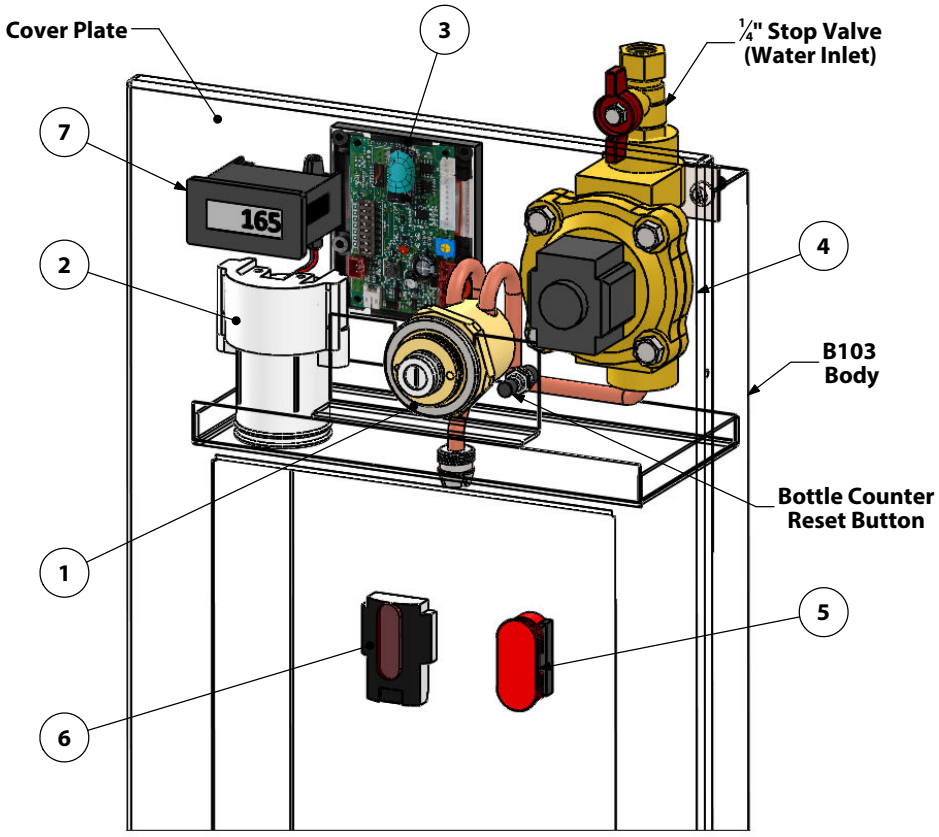
Adjust the flow by turning the white screw head on the cartridge regulator. Turn it clockwise to decrease flow and counterclockwise to increase flow.

Sensor Adjustment:

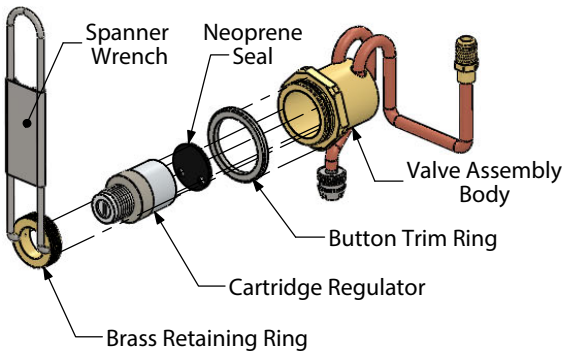
To adjust the distance of the sensor intensity, turn yellow phillips head screw on control module circuit board clockwise to lengthen distance and counter clockwise to shorten it.

Bottle Counter Reset:

To reset the bottle counter, press and hold the black reset button (see diagram above for location) for a few seconds while passing hand across the sensor.



Cartridge Regulator Valve Assembly Exploded View



See B103 FLUSH BUTTON INSTALL [EB] for valve assembly part numbers

DRAWING PART NO.	DESCRIPTION	ORDER PART NO.
1	CARTRIDGE REGULATOR ASSEMBLY	45.0006
2	BATTERY BOX	6.1712
	AA LITHIUM BATTERIES - 4 PACK	51.0592
3	CONTROL MODULE	6.1716
4	SOLENOID VALVE	6.1708
5	SENSOR (FOR B103 WITH BOTTLE COUNTER)	6.1714
	RED LENSE	6.1717
6	SENSOR (FOR B103 WITHOUT BOTTLE COUNTER)	6.1713
7	BOTTLE COUNTER, 3-30VDC	6.1730
ASSEMBLY	SENSOR ASSEMBLY (FOR B103 WITH BOTTLE COUNTER) - PART NO. 2, 3, 4 & 5)	6.1709
ASSEMBLY	SENSOR ASSEMBLY (FOR B103 WITHOUT BOTTLE COUNTER) - PART NO. 2, 4 & 6	6.1710

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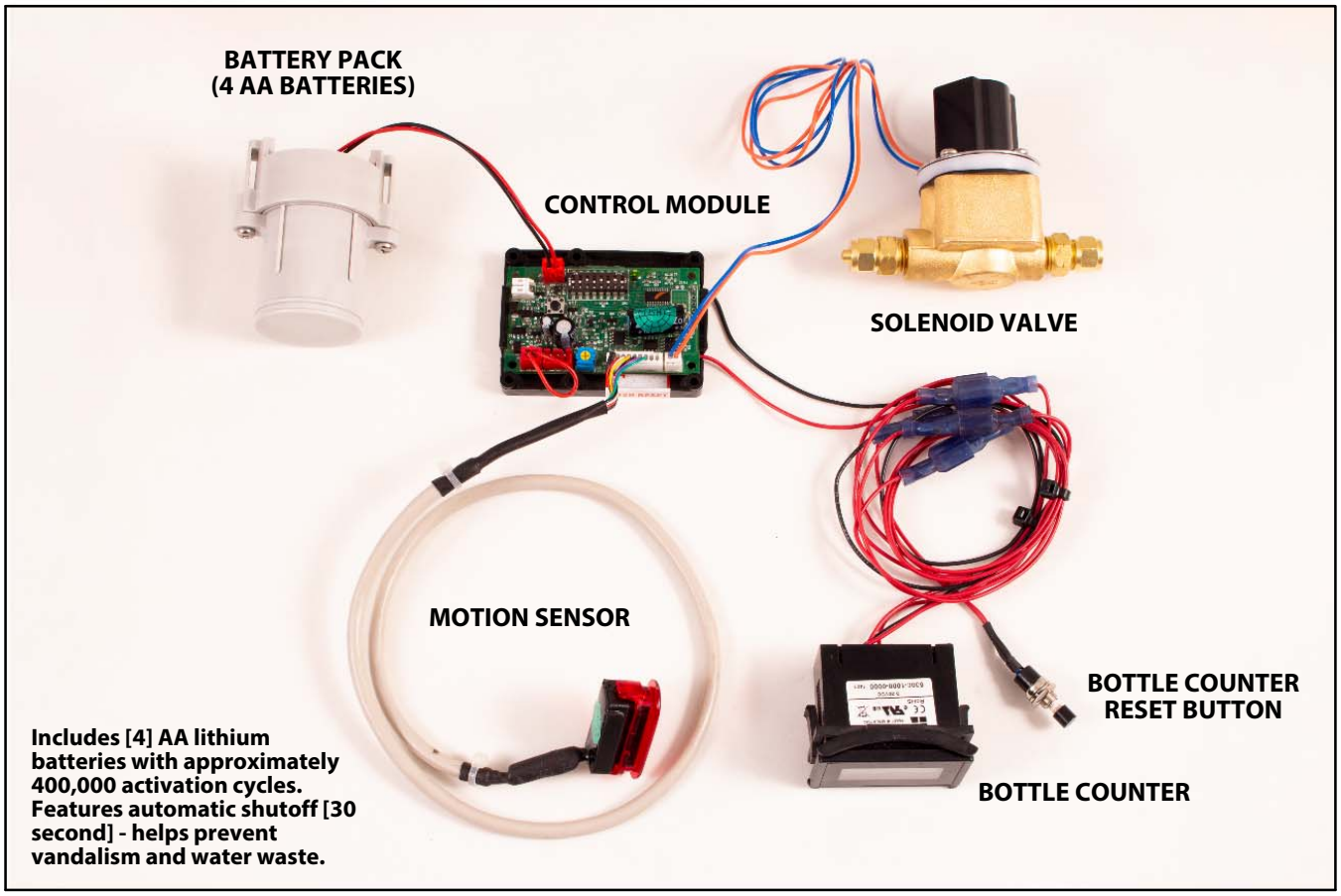
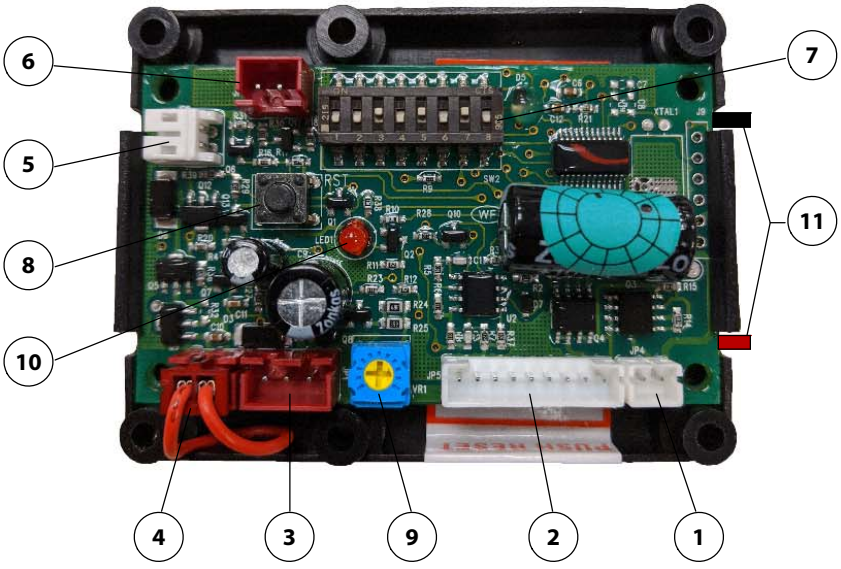
PRODUCT LINE ETL APPROVED CE MARK AVAILABLE

COMPLIES WITH LEAD NSF/ANSI 372

"Hands-Free" Sensor Activation Components



"Hands-Free" Control Module Diagram



CONTROL MODULE LEGEND	
1	SOLENOID PIN RECEPTOR
2	CONTROL CABLE (SENSOR EYE) PIN RECEPTOR
3	AC INPUT PIN RECEPTOR
4	DC INPUT PIN RECEPTOR
5	ELECTRO-MECHANICAL PUSH BUTTON PIN RECEPTOR
6	BATTERY PACK INPUT RECEPTOR (DC)
7	DIP SWITCHES
8	RESET BUTTON
9	SENSOR DISTANCE ADJUSTMENT SCREW
10	RED LED LIGHT
11	CABLES TO BOTTLE COUNTER

"Hands-Free" Control Module Instructions

1. To adjust sensor length, turn the sensor adjustment screw (9)
2. Turn clockwise to lengthen the sensor distance
3. Turn counterclockwise to shorten the sensor distance