

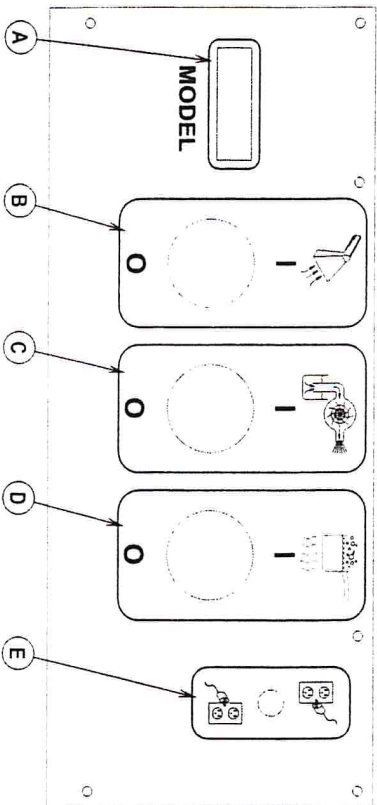
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KNOW YOUR SWITCHPLATE

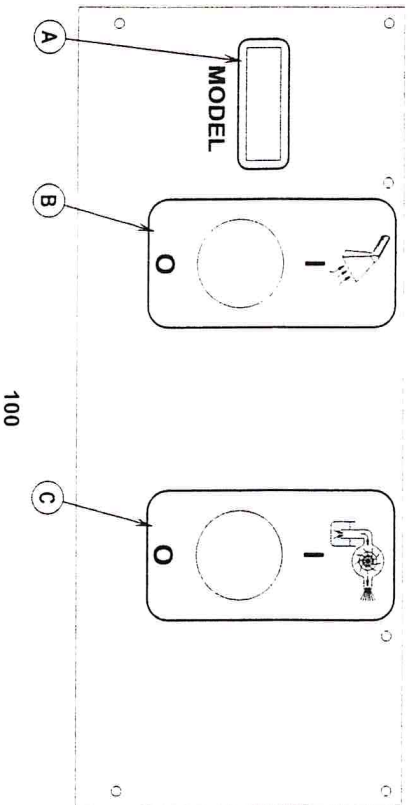
- A Model - This label identifies the model of your machine.
- B Vacuum Switch - This push-button switch turns on the vacuum. The switch will illuminate when it is on.
- C Pump Switch - The pump switch will illuminate when it is activated, and it will turn on the pump.
- D Heat Switch - The heat switch will illuminate when it is activated and will turn on the heater. NOTE: If the green, two-circuit indicator light is not turned on, you may have both power cords on the same circuit and this can trip the circuit breaker in the wall.
- E Circuit indicator (green) - When this light is on, it indicates that the two cords are plugged into separate circuits.

CAUTION!

The circuit breaker in the wall panel can trip if both cords are on the same circuit.



100H & 400H



100

PREPARING THE MACHINE FOR USE

1. Inspect the machine, hoses, and cleaning tools for cleanliness and completeness.
2. Screw the Recovery Tank Lid (1) closed. Ensure the Recovery Tank Drain (3) is closed tightly.
3. Pre-spray spots and heavy traffic areas before extracting with the detergent of your choice. Mix the pre-spray according to the detergent manufacturer's directions.
4. Fill the solution tank (8) with clear water (13 gal / 49 L capacity). If desired, add a detergent or rinse of your choice (we recommend a CRI approved detergent). If you choose to add a detergent to the solution tank, be sure to mix well, and always follow the use & dilution instructions on the detergent label. Only use a detergent with a pH between 5 and 10. Although this machine is designed to supply instant hot water, the addition of warm water to the solution tank would increase heater efficiency. Never use water above 130° F/54° C in the solution tank.

CAUTION!

Use low-sudsing, liquid detergent designed for carpet extraction.

OPERATING THE MACHINE

- 1 Follow the instructions in the *Preparing the Machine for Use* section of this manual.
- 2 Turn off all the switches. Plug the power cords into properly grounded outlets. Do not connect both cords to the same outlet, the green, Circuit Indicator Light (E) on the switch plate should light up. If the indicator light does not come on, try different outlets until it does. **Do not connect both cords to the same outlet.**
- 3 Attach the priming hose to the machine and place the open end into the solution tank.
- 4 Turn ON the solution pump (C) and let it run until the pump is fully primed (approximately 30 seconds to 1 minute). Once the pump is primed, turn off the pump and remove the priming hose. **NOTE:** If priming is difficult, place the open end of the priming hose into the Vacuum Inlet hose barb, and turn the vacuum on. Use your hand to block the open area in the hose barb. This will allow the pump and the vacuum to work together to get the water moving.
- 5 Connect a solution line to the Solution Hose Quick Disconnect (5). Attach the other end of the solution line to the cleaning tool.
- 6 Connect a vacuum hose to the Vacuum Hose Barb (2). Attach the other end of the vacuum hose to the cleaning tool.
- 7 To use heated water for cleaning, press the Heat Switch (D) on. Wait two minutes for the heat exchanger to reach temperature.
- 8 Press the Pump Switch (C) to ON (I).
- 9 Press the Vacuum Switch (B) to ON (I).
- 10 Spray through your tool a few times to fill the lines with solution. Begin cleaning.
- 11 **Note for 400H models only:** To adjust the solution spray pressure, rotate the Pressure Adjustment Knob (13) clockwise to increase pressure and counterclockwise to decrease pressure. The pump spraying pressure will be observable at the Pressure Gauge (15) while spraying. Make sure the cleaning tool is spraying when adjusting the pressure, otherwise the pressure reading will be inaccurate.
- 12 Watch the fluid entering the Recovery Tank Lid (1). If there is a large amount of suds in the recovery tank, add a defoamer chemical to the recovery tank.

CAUTION!

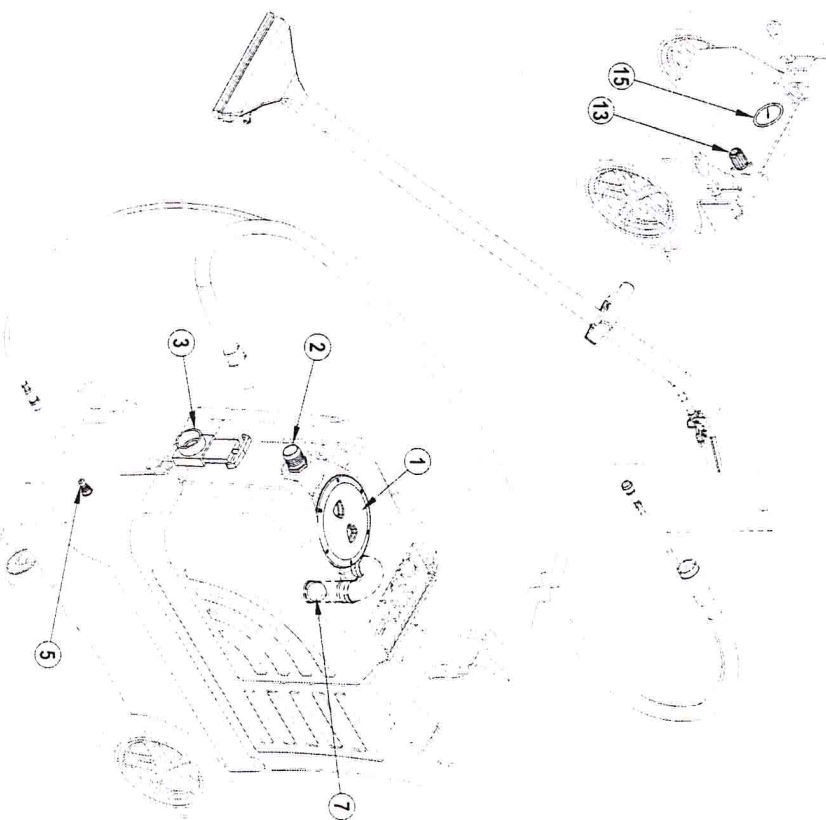
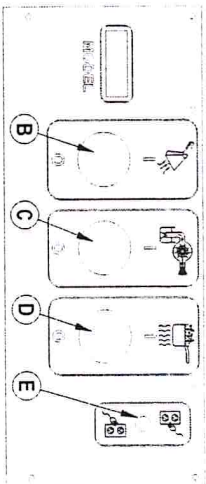
- Empty the recovery tank before the fluid or foam enters the vacuum motor.
- If foam or liquid escapes from the machine, switch off immediately.

CAUTION!

Always make sure the float is clean and travels freely before turning on the machine. A float that is stuck will cause the vacuum motor to suck in water, resulting in vac motor damage.

- 13 The recovery tank has a Recovery Tank Shutoff Float (7) to block the vacuum system when the recovery tank is full. You can tell when the float closes by the sudden change in the sound of the vacuum motor. When the float closes, the recovery tank must be emptied. The machine can continue to dispense solution, but will not pick up water with the float closed.
- 14 Monitor the water level in the solution tank. Do not let the pump run dry. When the solution tank gets low, turn off the pump and the vacuum motor, refill the solution tank with water and the proper ratio of cleaning detergent. Empty the recovery tank and continue cleaning.
- 15 When the operator has completed the job, vacuum all unused solution from the solution tank into the recovery tank, turn off the pump, vacuum motor and heat exchanger. Unplug the machine.
- 16 Push the machine to a designated waste water "DISPOSAL SITE" and empty the recovery tank. Drain the recovery tank by opening the drain gate (3) over a drain or a bucket.
- 17 Follow the instructions in the *After Using the Machine* section of this manual.

OPERATING THE MACHINE



AFTER USING THE MACHINE

- 1 To empty the solution tank, open Solution Tank Fill Opening (8) and vacuum out all unused solution into the recovery tank using the vacuum hose. Rinse the tank with clean water.
- 2 Turn all the Power Switches (B, C & D) to OFF (O). Unplug the Power Cords (12). Coil the cords and secure them to the rear of the machine using the two Cord Retainer Straps (14).
- 3 To empty the recovery tank, move the machine to a designated waste water "DISPOSAL SITE" and open the recovery drain gate (3). Rinse the tank with clean water.
- 4 Disconnect the solution and vacuum hoses from the machine, at the Solution Hose Quick Disconnect (9) and Vacuum Hose Barb (2) respectively. Flush the vacuum hose with warm water to wash any debris out of the vacuum hose and cleaning tool. Inspect them for damage. 5 W I P e.
- 6 Perform any required maintenance before storage.

MAINTENANCE SCHEDULE

MAINTENANCE ITEM	Daily	Weekly	Monthly	Yearly
Check / Clean Tanks & Hoses	X			
Check / Clean Recovery Tank Shut-Off Float	X			
Clean Extraction Wand/Tool	X			
Inspect & Clean Solution Filter		X		
Use a flushing compound (descaler machine)			X	
Check Carbon Brushes				X

- * Have a Clarke service technician check the vacuum motor carbon brushes once a year or after 300 operating hours. Check the pump motor carbon brushes every 500 hours or once a year.

IMPORTANT!

Motor damage resulting from failure to service the carbon brushes is not covered under warranty. See the Limited Warranty Statement.

- 7 Store the machine indoors in a clean, dry place with the recovery tank lid open. Keep from freezing.
- 8 Lubricate the wheels, castors and quick disconnects with an all-purpose silicone spray.
- 9 Once a month, run a flushing compound (a mild acid descaler) through the machine to break up any mineral or chemical build-up that may have formed. Rinse the descaler out of the system with a few gallons of clear water.

POWER CORD MAINTENANCE

Once a week (or more often if necessary), check the power cords for cracked or damaged insulation, exposed wires in the cord or plug, and damaged or missing ground pin. Repair or replace damaged cord or plug **immediately**.

TROUBLESHOOTING:**IF THIS OCCURS****CHECK THIS**

NO SPRAY	Solution tank is empty, or filter is plugged. Clogged spray tips. Pump not running or not primed. Valve on wand not operating.
PUMP DOES NOT RUN	Solution hose not completely connected to hose or to machine. This pump motor runs on AC voltage, so it should start running as soon as you turn on the switch. If the pump motor does not start running, check the wiring to the switch and to the motor. Check the switch to see if it is "open".
LOW SUCTION	Debris is plugging cleaning tool or vacuum hose. Drain gate is not completely closed, or seals are damaged. Recovery tank lid is not sealed or gasket is damaged. Ball in the float is blocking air flow. Turn off the vacuum so the ball will drop down, or the recovery tank is full and needs to be emptied. No power to motor. Test the switch.
NO SUCTION	Test the vacuum motor. Spraying too long. Try spraying for 12-15 seconds, or about three strokes.
LOW HEAT	Heat exchanger needs to be flushed. Wrong tool being used. Too much water passing through. Longer hose or larger diameter hose, than standard. Heat is not turned on. The green circuit indicator light must be on.
NO HEAT	No power in the wall outlet - check to see if the breaker has tripped. Call your distributor for additional help.

TECHNICAL SPECIFICATIONS (as installed and tested on the unit)

Model No.	BEXT Pro-100	BEXT Pro-100H	BEXT Pro-400H
Voltage/Frequency	56105308 120 V / 60 Hz	56105309 120 V / 60 Hz	56105310 120 V / 60 Hz
Rated Current	15 Amp	15 Amp	15 Amp
Protection Class (electrical)	Class 1	Class 1	Class 1
Solution Tank Capacity	13 gal (49 L)	13 gal (49 L)	13 gal (49 L)
Recovery Tank Capacity	10 gal (37.8 L)	10 gal (37.8 L)	10 gal (37.8 L)
Total Weight	70 lbs (31.7 kg)	75 lbs (34 kg)	90 lbs (40.8 kg)

Material Composition and Recyclability

Type	% of machine weight 100	% of machine weight 100H	% of machine weight 400H	% recyclable
Aluminum	1%	9%	8%	100%
Electrical / motors / engines - misc	9%	8%	22%	29%
Ferrous metals	11%	11%	9%	100%
Harnesses / cables	6%	5%	4%	80%
Liquids	0%	0%	0%	100%
Plastic - non-recyclable	3%	3%	2%	0%
Plastic - recyclable	6%	5%	4%	100%
Polyethylene	60%	55%	47%	92%
Rubber	4%	4%	3%	20%