



# LVO Manufacturing, Inc.

808 N. 2<sup>nd</sup> Avenue E., P.O. Box 188

Rock Rapids, IA 51246

www.lvomfg.com

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## Installation

**NOTE:** Entire installation MUST adhere to local codes.

1. Read and understand entire Owner's Manual and Installation & Start-Up sheet.
2. The machine must be installed level
3. The electrical hookup must be done with flex conduit, with enough to allow the machine be moved for servicing.
4. There must be a main electrical disconnect switch on the wall near the machine.
5. There must be a main ground connected to the control panel. **FULL ATTENTION MUST BE PAID TO CONNECTING THE CORRECT VOLTAGE.**
6. The incoming water supply must have a shutoff valve and union. (Connection size depends on model – see specification sheet in the Owner's Manual.) Required supply water temperature is 140°F (60°C).
  - a. Maximum allowable water supply pressure is 125 PSI (862 kPA)
  - b. Maximum allowable hot water supply pressure is 125 PSI (862 kPA)
7. The drain, if hard plumbed, must have a union installed.
8. Gas models will have either a ½" or ¾" NPT (depending on model – see Owner's Manual) hookup with union.

## Start-Up

**Important: For initial Start-Up be sure to follow these instructions.**

1. Remove the control box cover.
2. Make sure all circuit breakers are in the **OFF** position.
3. On machines with a manual drain, make sure drain valve is closed.
4. Turn on the MAIN power and turn the ON-OFF switch to the "ON" position. Wait approximately 5 seconds to allow the internal controller to power up, push the AUTOFILL button and wait for machine to fill. The POWER light will turn on when the machine is nearing the end of the fill cycle.
5. **BE SURE TO LEAVE THE CIRCUIT BREAKERS IN THE "OFF" POSITION.**
6. Turn the wash selector to the LIGHT setting.
7. Depress the START button and allow the machine to go through a complete cycle.  
Note: The pump will not run at this time, but the indicator lights will function.
8. The cycle is complete after the WASH light goes off. The POWER light will remain on.
9. Repeat step 7 two times to be certain the rinse tank is completely filled with water.
10. When the rinse tank is filled, turn ON all circuit breakers, replace the control box cover, and set the wash time selector to the desired setting.
11. Push the start button and check pump rotation. The pump pressure should be between 45-60 PSI (310-414 kPA). If the pressure is below 25 PSI (172 kPA) and erratic, the pump is running backward. To change the rotation, turn OFF the MAIN power into the machine and reverse the two outside leads feeding into the power block on the control panel.
12. Wait for the wash temperature to reach 155°-160°F (68°-71°C), and the rinse tank temperature to reach 195°-200°F (90°-93°C).
13. Load rack with items to be washed and add detergent (if detergent dispense is not installed)
14. You are now ready to proceed with you washing.

**If instructions are not followed, damage may result!!!**



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## Instructions

1. Close drain valve
2. Place pump inlet screen in position.
3. Position scrap trays in proper place.
4. Turn power switch to "ON".
5. Push AUTOFILL button to fill with water.
6. Wait until wash temperature reaches 155°-160°F (68°-71°C), and the rinse tank temperature reaches 195°-200°F (90°-93°C).
7. Load rack into the machine.
8. Press START button.
9. When the WASH light goes off, the cycle is complete.

## Daily Maintenance

### For Machines with Manual Drain

1. TURN POWER SWITCH TO "OFF".
2. Open drain valve and drain machine completely.
3. Remove and thoroughly clean all scrap trays.
4. Remove and thoroughly clean pump inlet screen. DO NOT ALLOW ANY FOREIGN MATERIAL TO ENTER PUMP INLET!!!
5. Replace pump inlet screen and clean inside of machine entirely with hose.
6. Immersion heaters and low water probe must be kept completely free of residue by daily brushing.
7. Inspect wash and rinse nozzles for blockage and clean.
8. Final inspection should be carried out for any buildup of residue. Clean entire machine before replacing scrap trays and filling with water.
9. (For Pit Mounted Walk-In Models Only) Remove front floor grate(s) and spray pit floor from front toward the rear. Clean the pit drain thoroughly. Any water back-up from a clogged drain will cause major burner damage! DO NOT allow overspray on burner when cleaning pit. Burner firing problems will result. When cleaning is completed, replace the floor grate(s).

### For Machines with Automatic Drain

1. Press AUTODRAIN button and wait for machine to drain completely.
2. TURN POWER SWITCH TO "OFF".
3. Follow Steps 3-9 above.