

MODEL 900 NELSON WATERER INSTALLATION AND OPERATING INSTRUCTIONS

INSTALLATION

Model 900 waterers are designed for corner wall installation. Walls may be wooden, metal or concrete but must be strong and rigid. To mount waterer, hold aluminum housing against wall and mark the three (3) bolt holes - 2 at outside corners and 1 inside bowl. Drill holes in wall and bolt unit to wall in such a manner that it cannot be easily loosened. NOTE: To avoid damage in shipment, the latch has been turned around so it extends down instead of up. To locate the latch properly, rotate the latch one-half turn so it is located in the "notch" in the back of the aluminum bowl. If more tension is desired on the latch, tighten the lock nut on the hex head bolt.

WATER CONNECTION

We recommend installing a water shut-off valve at each waterer. Don't permit pipe cuttings, straw or dirt to lodge in water line during installation. Flush water line before connecting waterer. Connect plastic fitting of hose assembly to your water supply. Screw brass elbow, if desired snugly into bottom of valve. Then, with hose clamp loosened screw brass hose fitting into elbow or directly into valve if elbow is not used. Tighten hose clamp.

WARNING: After connecting to water supply, make certain water enters bowl and shuts off properly.

ELECTRICAL CONNECTION

Required only if equipped with electric heater.

We recommend consulting your electrician, power supplier, and/or appropriate electrical codes regarding:

- a. Type and size of service wire.
- b. Grounding procedure.
- c. Proper current overload protection of heater.
- d. Procedure for making moisture-proof electrical connection.

Service ground wire should be connected to the green ground wire of the heater.

Individual current overload protection for each waterer is recommended.

Heater Rating: 200 watts @ 120 volts (1.7 amps)

FLOAT ADJUSTMENT

The float adjustment controls the water level and the water flow. It is adjusted by loosening the small screw in the valve lever, moving the float arm to the desired position and re-tightening the screw. NOTE: In March 1986, the screw and valve lever were changed to a LEFT-handed thread.

The float should be adjusted so it maintains a water level approximately 3" below the top of the bowl and so water flows at full force when level drops 1 - 1 1/2 inches.

Care must be taken to prevent bending the float arm in a manner causing it to be restricted by the side of the casting or plastic drinking bowl.

WARNING: After adjusting float, make certain water enters and shuts off properly.

CLEANING

To clean, shut off water supply and remove plastic drinking bowl. Drain aluminum bowl into bucket and remove any dirt, straw or other material that may be in the casting or drinking bowl. Replace plastic drinking bowl and turn water supply on.

WARNING: After cleaning, make certain water enters bowl and shuts off properly.

REMOVING THE HEATING ELEMENT

Shut off electricity and shut off water. If it should be necessary to remove heating element make certain when replacing that the element lies horizontal and does not point upwards. **CAUTION:** Tighten nut on heater hand tight, then use wrench to turn nut one-eighth turn more. Turn water supply on.

WARNING: After replacing heater, make certain water enters bowl and shuts off properly.

VALVE

To remove valve, first shut off water supply and remove hose connection to valve. Remove cotter pin, freeing valve lever and float arm. Valve may now be unscrewed from casting. Brass valve cap may be unscrewed from valve body allowing valve plunger to be removed. **NOTE:** Rubber valve seat should sit flat in end of valve plunger.

To replace valve, reverse procedure. Make certain brass valve cap is threaded on valve body all the way to shoulder. Thread valve into casting until snug fit is realized, making certain it is in proper alignment for float arm assembly. Replace cotter pin. Replace water supply hose. Turn water on.

WARNING: After replacing valve, make certain water enters bowl and shuts off properly.

PARTS LIST FOR MODEL 900 WATERER (Always order by part number)

Part #	Description	Part #	Description
915	Valve and Float Kit, Complete	370	Hose Assembly Complete (3/8" ID x 18" Long)
916	Valve Body, Cap & Plunger	371	Hose-less 1/8" MPT Hose Fitting
904	Valve Cap (Brass)	272	Hose Fitting (Plastic)
362-B	Valve Body (Plastic)	373	Hose Fitting (Brass)
363	Valve Seat (pkg of 6)	374	Elbow (Brass)
364	Valve Plunger (Includes Seat)	903	Plastic Drinking Bowl
906	Valve Lever with Screw & Washer	905	Bowl Clip with Rivet (pkg of 2)
909	Valve Lever Cotter Pin (pkg of 6)	913	Bowl Latch with Screw, Nut, and Spring
911	Float (Molded Plastic)	902	Aluminum Housing
912	Float Arm (Brass)	908	Rubber Stopper
918	3 Screws and 6 Lock Washers for Valve Lever	280-2W	Heater (black), 200 Watts, @ 120 Volts (Includes Nut and Washer)
		378	Heater Hole Plug

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