



TROJAN SPECIALTY PRODUCTS

Installation Instructions for:

**BIG BLUE
II and IV
WATERERS**

Stainless Steel Heated Nipple Waterers

Congratulations, you have just purchased the finest nipple fountain on the market. This unit is built to give you excellent service when properly installed and maintained. Please follow instructions carefully. Read and understand all instructions before installing.

Beck Sales Company, Inc 'dba' TROJAN SPECIALTY PRODUCTS
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Location - Putting the fountain in a location that offers protection from the wind will enhance the performance of the fountain. Livestock will tend to gather in this protected area, enticing them to drink more. Access panel should be opposite of prevailing winter wind to give additional protection to the supply line.

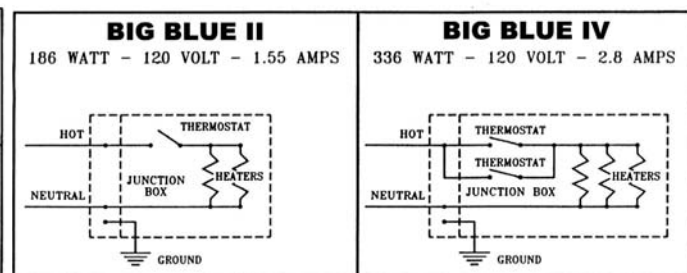
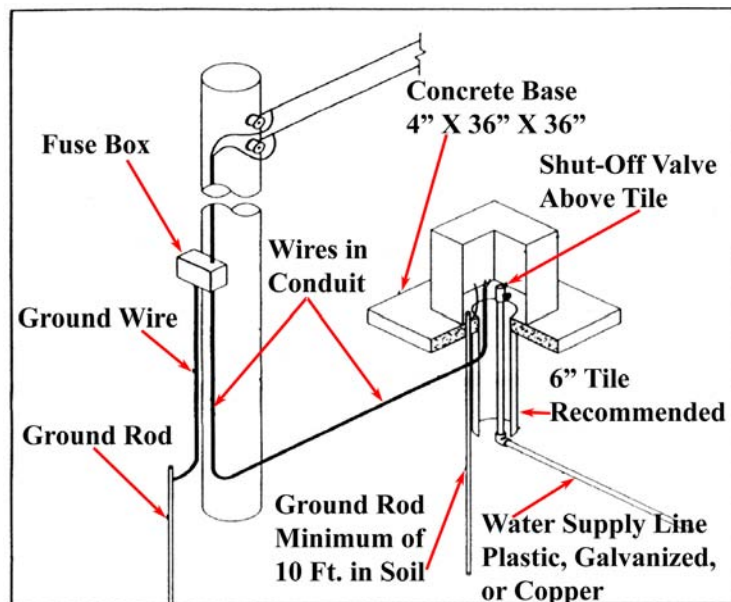
- 1. Water Supply Line - Horizontal underground water line should be sized to account for pressure drop, relating to distance, and placed well below frost line. A one-inch vertical supply pipe is recommended. A shut-off valve should be installed under fountain to allow for easier servicing. For optimum serviceability, a stop and waste valve can be installed in the supply line to shut off water if servicing. Vertical supply line must be centered in riser tube to provide an air space between the line and frozen ground outside of tube. Flush water supply line thoroughly before connecting to fountain. Water supplies with foreign material such as sand, rust, etc. may require a filter to keep water supply clean.**
- 2. Riser Tube - A minimum 6" diameter riser tube should be installed and extended at least one foot below frost line or down to the horizontal underground water line. For optimum water line protection, use the 11 1/2" diameter insulated Thermal Tube Part #16417 -2' top section, Part #16612-4' top section, Part # 18151-1' top section and Part #16416 -2' extensions. Tube opening must be kept clear. Do not surround supply line with insulation, wood or any foreign material. Any foreign material in the tube may cause frost to migrate to supply line causing supply line freezing**
- 3. Mounting Platform - A 4" thick and 3' square concrete platform must be provided for mounting this fountain. The concrete platform should slope away from the fountain for drainage of surface water. A rough broom finish to concrete surface provides better footing for livestock**
- 4. Mounting Fountain - Nipple fountains are provided with four hold downs to anchor your unit securely to the concrete. Use of stainless steel lag bolts (not included) is recommended. Use an all-weather sealant under the outside edge when anchoring to concrete to keep air from leaking under fountain.**
- 5. Cable Heater - The cable heater included must be mounted on the water supply pipe as far below the top of the concrete platform as possible. CAUTION: Installation must not cause any strain on heater wiring connections. Avoid heater damage caused by hot spots due to its leads laying too close to each other. Also do not wrap additional insulation around heater.**
- 6. Nipple Removal - If it is necessary to remove nipple for servicing, hold brass coupling with wrench while loosening the nipple. [Recommended Nipple: TROJAN Model 2000 Wrench Curve.](#)**
- 7. Thermostat - This unit contains a preset non-adjustable disc thermostat. The temperature is set to keep your waterer ice free in the coldest weather.**
- 8. Nipple Height Adjustment: How to lower a set of nipples to the 14 inch setting:**
 1. Shut electrical power off to unit for safety. (No wiring to disconnect, but heaters could burn you.)
 2. Remove screw from the shield that holds heater retainer in place. (Note: Retainer is loose and could fall into the tile.)
 3. Remove thermostat from brass coupling that's behind shield. (Hang thermostat over the top of unit out of the way.)
 4. Remove remainder of the screws from shield and from cover plates at lower position.
 5. Heater should be removed from pipe while lowering the nipple pipe assembly. (Nipples do not have to be removed from the pipe.)
 6. Insulation will have to be cut or trimmed to allow assembly at lower position.
 7. Reassemble parts in reverse order above.
CAUTION: Be sure thermostat is in good contact with brass coupling. Also, that heater is in place and in contact with brass. No wires or any flammable material should be contacting heaters.
 8. Turn on electrical power.

ELECTRICAL CONNECTION

Electrical service must be made and maintained by a qualified electrician. Each waterer must be independently fused and wired with the proper size suitable for at least 75°C (160°F). (IMPORTANT: Refer to serial plate for electrical requirements). Hot wire must be ran through the thermostat, and the neutral wire must be ran to the neutral marked wire in the junction box. A copper ground wire, buried a minimum of 10' in the soil, should be provided at each waterer. Connect ground wire from rod to ground connection in junction box of waterer.

WARNING: THIS INSTALLATION MUST BE MADE AND MAINTAINED IN STRICT CONFORMITY WITH THE NATIONAL/LOCAL PLUMBING CODES AND NATIONAL/LOCAL ELECTRICAL CODES (CSA IN CANADA). THE APPLICABLE PROVISIONS OF THESE CODES TAKE PRECEDENT. FAILURE TO MAKE AND MAINTAIN ALL INSTALLATIONS PROPERLY MAY RESULT IN LOSS OF LIVESTOCK., PERSONAL INJURY, OR DEATH.

NOTICE: CANADIAN ELECTRICAL CODE—PART 1 REQUIRES LIVESTOCK WATERERS INSTALLED IN FEED-LOTS IN OPEN FEEDING AREAS SHALL BE GROUNDED BY A SEPARATE STRANDED COPPER GROUNDING CONDUCTOR OF AT LEAST NO. 6 AWG TERMINATING AT A POINT WHERE THE BRANCH CIRCUIT RECEIVES ITS SUPPLY.



THERMAL TUBES

Prevent Supply-line Freeze-up. Use these recommended Thermal tubes when installing your BIG BLUE Waterers !!!



4 Foot Top Section



Part #: 16612

2 Foot Top Section



Part #: 16417

2 Foot Extension



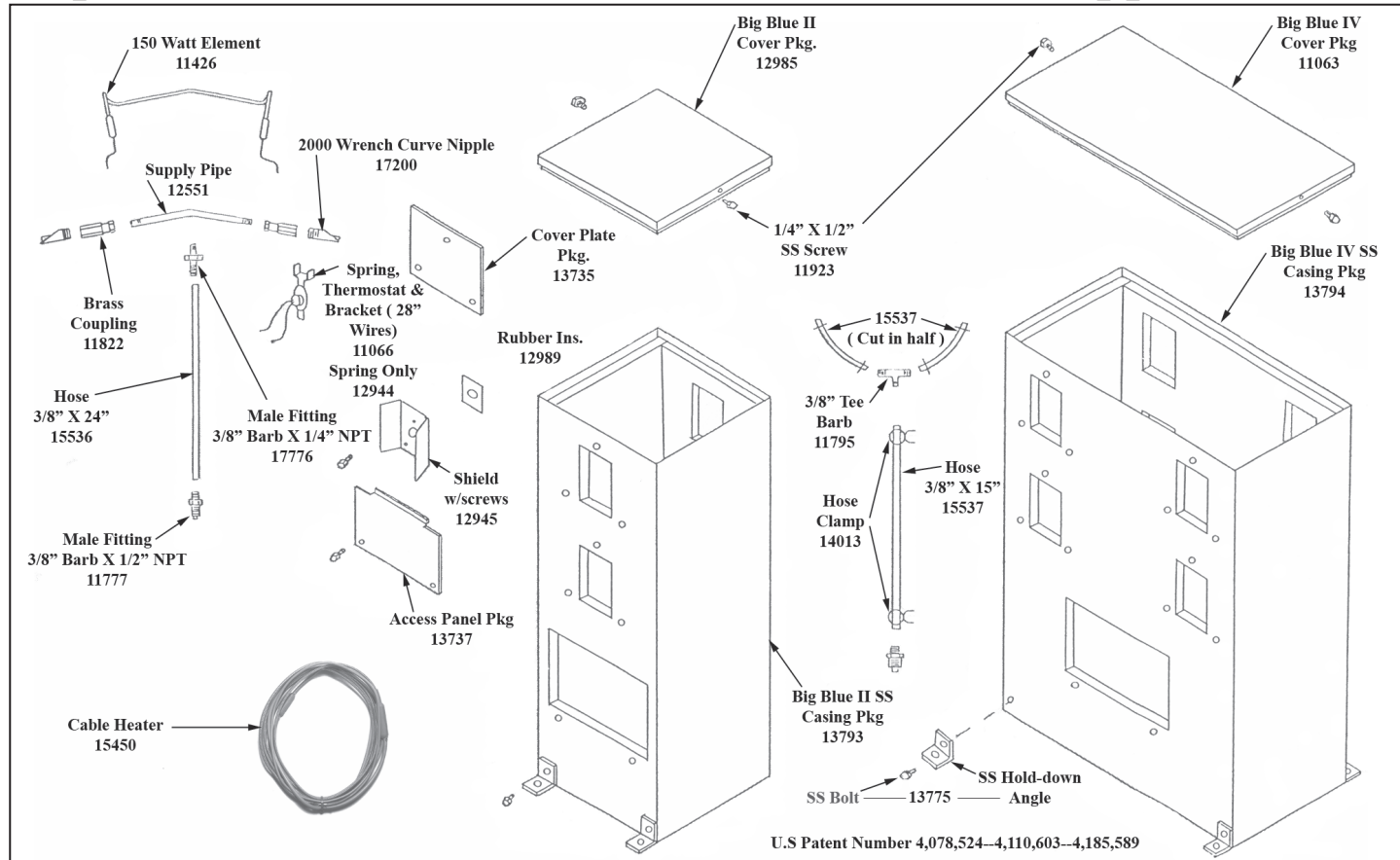
Part #: 16416

1 Foot Top Section



Part #: 18151

Repair Parts for TROJAN Big Blue Stainless Steel Nipple Waterers



U.S. Patent Number 4,078,524-4,110,603-4,185,589

ORDER PART NO.	DESCRIPTION	ORDER PART NO.	DESCRIPTION
11063	Big Blue IV Cover Pkg.	12989	Rubber Insulator
11066	Thermostat & Bracket (28" Wires)	13657	Retainer Heater Clip (Replaces 11845)
	w/spring	13735	Cover Plate w/Screws B.B. S.S.
11175	Spring Assembly - BB Thermostat	13737	Access Panel w/Screws B.B. S.S
11426	150 W Heating Element	13775	S.S. Hold Down Bracket Pkg.
11776	3/8" BARB x 1/4" NPT	13793	Big Blue II S.S. Casing Pkg.
11777	3/8" BARB x 1/2" NPT	13794	Big Blue IV S.S. Casing Pkg
11795	3/8" Tee Barb	14013	3/8" ID Hose Clamp
11822	BB Brass Coupling Pkg.	14143	100 W Heating Element
11923	1/4 x 1/2 SS Screw	15450	Cable Heater
12410	Hose Insulation - 3/8" x 24"	15536	Hose 3/8" x 24"
12551	Galv. Supply Pipe (1/2" x 6") w/couplings	15537	Hose 3/8" x 15"
12944	Spring Clamp (Thermostat)	15661	Insulation Package BB2SS
12945	BB Shield w/Screws Pkg	15662	Insulation Package BB4SS
12985	Big Blue II Cover Package	17900	Trojan Model 2000 Wrench Curve Nipple

Warranty

All Trojan Specialty Products are covered by a limited warranty against material and/or workmanship defects. Defective part (s) will be repaired or replaced at the option of Trojan Specialty Products. This warranty specifically excludes all labor and shipping charges.

This warranty does not apply to any appearance items, to any product whose exterior has been damaged or defaced, or defects due, directly or indirectly, from the abuse, misuse, negligence or accidents, repairs with other than original manufacture parts, alterations outside our facilities, or to a lack of maintenance. Damage caused by frozen water is specifically excluded

To request warranty service call or write Trojan Specialty Products. In order to receive a warranty claim, merchandise must be returned to Trojan Specialty Products. In U.S. Call 1-800-279-1770 for instructions. Outside U.S. Call 1-620-225-1770.

Trojan Specialty Products and its affiliates, shall in no event, be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our products.