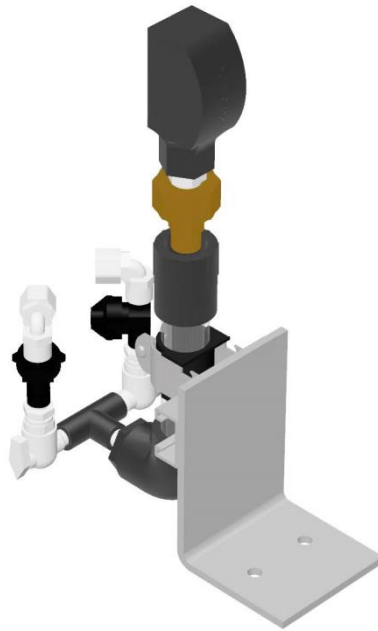




Chemical Tire Applicators



Owner's Manual

Sonny's Enterprises LLC
5605 Hiatus Road
Tamarac, Florida 33321



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WARNING *SAFETY REQUIREMENTS* WARNING

1. All employees must be thoroughly trained in safe operation and standard maintenance practices. All employees must review this entire manual monthly.
2. Do not enter the wash tunnel when the equipment is operating. Death or dismemberment may occur.
3. Do not wear loose fitting clothing or jewelry around moving equipment. Do not allow any part of your body or other objects (including ladders, hoses, or tools) to come in contact with moving equipment. Entanglement may result causing death or dismemberment.
4. Do not leave a ladder or any other items such as wash down hoses or tools in the wash tunnel while equipment is running. Vehicle damage and injury, including death, can occur.
5. Always exercise caution when walking (never run) through the wash tunnel as there may be slippery conditions. Be careful so you do not bump into or trip over equipment.
6. Only those employees specifically instructed and trained by the location management are permitted to enter the wash tunnel to perform inspections or maintenance. At least two qualified maintenance people must be present when performing equipment repairs or preventive maintenance.
7. Do not perform any maintenance or work on equipment unless you first perform Lock-Out Safety Precautions. All electrically powered equipment must have manually operated disconnects capable of being locked in the "OFF" position. Equipment that has been "locked out" for any reason must be restarted only by the person who performed the "lock out" operation.
8. When working on any equipment that is higher than your shoulders, always use a fiberglass ladder that is in good condition.
9. Do not attempt to repair or adjust any pressurized liquid or pneumatic part, hose, pipe or fitting while that equipment is in operation.
10. Electrical connections and repairs must be performed by a Licensed Electrician Only.
11. Emergency "STOP" buttons must be well marked and their location and proper use reviewed with all personnel. Any activated "STOP" button must be reset only by the person who activated it. Clear the wash tunnel of any people, ladders, hoses, tools, and other loose items before restarting the equipment. An audible device must sound to warn people that the equipment is starting.



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12. Do not operate any piece of equipment that requires safety covers with those covers removed or improperly installed. Do not operate any piece of equipment if any component of that piece is suspected to be defective or malfunctioning.
13. Store all cleaning and washing solutions and oils in a well-ventilated area. Clean up fluid spills immediately to prevent hazardous safety conditions. Be certain to follow all safety procedures on SDS Sheets for each chemical product used.
14. All hydraulic and electric systems in the wash tunnel equipped with a torque relief or overload should be checked and set at the minimum amount that will allow for proper functionality under normal washing conditions.
15. No unauthorized people should ever be permitted in the wash tunnel or near the equipment at any time.

* * *

!! CAUTION !!

When a piece of equipment must be in operation during inspection or maintenance, one qualified technician must stay at the power disconnect switch while another qualified technician performs the inspection or maintenance.



INTRODUCTION

This Manual contains information that is vital to the successful installation, operation and maintenance of your SONNY'S vehicle washing equipment.

Please read, and understand, the full contents of this manual before installation and operation of the equipment. Keep this booklet in a location where it may be used for ongoing reference.

Should you have any questions on the operation or servicing of this equipment please contact:

TECHNICAL SERVICES DEPT.

SONNY'S ENTERPRISES INC.

5605 HIATUS ROAD

TAMARAC, FLORIDA 33321

TELEPHONE: 800-327-8723 FAX: 800-495-4049

THANK YOU FOR YOUR CONFIDENCE IN SONNY'S !!!!!





Product Specifications

- Solenoid actuation from equipment programmer
- Applicators with diaphragm check valves
- Reliable compressed air driven solution pump
- Plastic solution storage tank
- Foam generated at each applicator stand
- Applicator nozzles are height adjustable
- Design ensures complete coverage of wheel



Big Wheels, Little Wheels, No Problem

Problem:
You need to reduce labor, maintenance, and chemical expense, while completely covering tires and wheels of drastically varying sizes with consistent accuracy.

Solved:
SONNY'S proven manifold designs combine with multiple nozzle positioning systems and accurate hydrominder proportioning to deliver precise chemical application to tires and wheels. Flojet pumps feature Viton seals designed to withstand strong tire cleaning chemicals. Individual regulators and solenoids help control application.

Foaming Showerhead 11 hole Chemical Tire Applicators

- Covers tires & wheels with foaming cleaning solution online
- Each tree includes (2) nozzles, mounting bracket, and check valves

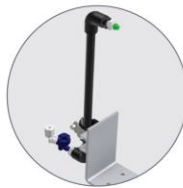


Older Style CTA Tire & Wheel Applicators



**Foaming (2) 80°
Nozzles Chemical Tire
Applicators**

- Covers tires & wheels with foaming cleaning solution online
- Foam increases dwell time for better results
- Each tree includes (2) nozzles, mounting bracket, foam generator, and check valves



**Non-Foaming Cone
Nozzle Chemical PVC
Tire Applicators**

- Covers wheels with cleaning solution online
- Each tree includes nozzle, mounting bracket, and check valves








**Non-Foaming (2)
65° Galvanized
or Stainless Steel
Chemical Tire
Applicators**

- Covers tires & wheels with cleaning solution online
- Each tree includes (2) nozzles, mounting bracket, and check valves



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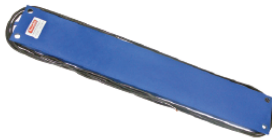
System	Description	Activation	Trees Required	
	Foaming Shower Head 11 Hole Chemical Tire Applicators	Tire Applicator, 11 Shower Head Foaming	Controller / Floor Switch	(2) Trees - Single DS/PS (4) Trees - Dual DS/PS
	Foaming (2) 80° Nozzles Chemical Tire Applicators	Tire Applicator, 2 80° Nozzles Foaming	Controller / Floor Switch	(2) Trees - Single DS/PS (4) Trees - Dual DS/PS
	Non-Foaming Cone Nozzle Chemical PVC Tire Applicators	Tire Applicator, 1 Cone Nozzle 16in PVC	Controller / Floor Switch	(2) Trees - Single DS/PS (4) Trees - Dual DS/PS
	Non-Foaming (2) 65° Galvanized Chemical Tire Applicators	Tire Applicator, 2 65° Nozzles Galv.	Controller / Floor Switch	(2) Trees - Single DS/PS (4) Trees - Dual DS/PS
	Non-Foaming (2) 65° Stainless Steel Chemical Tire Applicators	Tire Applicator, 2 65° Nozzles SS	Controller / Floor Switch	(2) Trees - Single DS/PS (4) Trees - Dual DS/PS

Applicator pumps sold separately – see below.

Related Items

Floor Switches

- Heavy duty steel base plate provides solid mounting points
- Edge (10007195) options allow a choice of recessed or surface mounting
- Ramped edge (10007367) accommodates surface mounting
- Dri-Run cabling prevents moisture from wicking through the lead wires
- Completely immersible, IP67 rated mat ensures a long operating life



Specifications for CTA Applicators

	Inches	Metric
Footprint Length: (2) Applicators	12in	307 mm
Footprint Length: (4) Applicators	48in	1.21 m
Footprint Width: All Application Systems	11ft	3.35 m
Requires available computer function or optional control box		

Chemical Tire Applicator Control Box

- Operates tire application function without the need for an additional computer function
- Provides more accurate delivery and chemical control than treadle switches
- Activated by optional floor switch



Applicator Pump Stations



Tank Size	Hydrominder
3 Gallon 1 Flojet G57	511 (240:1 Dilution)
	515 (100:1 Dilution)
	530 (530:1 Dilution)
6 Gallon 2 Flojet G57	530 (530:1 Dilution)

Material ID: G57_PUMP



INSTALLATION

Utilities Requirements

**UTILITIES INTERCONNECTION AND THE MATERIALS REQUIRED FOR INTERCONNECTION TO SONNY'S EQUIPMENT ARE THE RESPONSIBILITY OF THE CUSTOMER!
PERFORM ALL TRADES WORK TO ALL APPLICABLE LOCAL AND NATIONAL CODES!**

Water

- The Customer's Plumber is to provide materials and install a 1/2 inch freshwater line (60PSI nominal), with in-line shutoff, to the inlet fitting on the solution proportioner on the pump and tank assembly.
- The Customer's Plumber is to provide materials and install 3/8 inch line from the 3/8 inch FPT discharge port of the air driven solution pump on the pump and tank assembly to the 3/8 inch FPT liquid solenoid valve and on to the spray applicators.
- The Customer's Plumber is to provide materials and install piping from the customer's air compressor to the 1/4 inch FPT air inlet port on the air driven solution pump (maximum demand 5CFM @ 100PSI).

Electrical

- The Customer's Electrician is to provide materials and install the floor switch wiring to the Customer's equipment programmer. Refer to the Programmer Manufacturer's instructions for the connection terminals for the floor switch wires.
- The Customer's Electrician is to provide materials and install the floor switch wiring to the customer's equipment programmer function.

NOTE: Refer to the equipment Programmer Manufacturer's instructions for wiring connection points within the Programmer.

- The Customer's Electrician is to provide materials and install 24VAC 60Hz wiring from the customer's equipment programmer function to the SONNY'S supplied air and liquid solenoid valves for each pair of spray applicators.



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- The Customer's Electrician is to provide materials and install wiring from the Customer's equipment programmer function to the SONNY'S supplied 24VAC 60Hz air and liquid solenoid valve coils.

NOTE: 24VAC, 110VAC 60Hz or 220VAC 50Hz control voltage may have been specified at the time of order. Prior to energization of these controls be certain that the solenoid valves voltage matches the control supply voltage.

- The Customer's Electrician is to place, and anchor to the concrete, the floor switch in-line with the car wash enter switch.



Equipment Installation

CTA Installation

Tools

1. Safety Glasses
2. ½" Drive Ratchet Set
3. Standard Combo Wrenches
4. Standard Screwdriver
5. 1" Hammer Drill
6. Sledgehammer
7. Tape Measure

Work Force

One (1) person

Consumables

1. PTFE Tape

Time (assuming no problems)

1.00 – 2.00 hours

Installation Steps

1. Determine where the CTA is to be installed.
2. Sweep any debris from the area the CTA will sit.
3. Place the CTA unit eighteen inches (18") from the inside of the conveyor on the driver side guide rail. Then measure eighty inches (80") from the inside passenger guide rail side CTA unit to determine the placement of the passenger side CTA unit.
4. Using a hammer drill, drill the holes for the anchor bolts.
5. Then, using a hammer, drive the anchor bolts into the concrete.
6. Before tightening the bolts make sure the units are "in-square." Once confirmed that the units are "in-square" tighten the bolts.
7. Find the location in the backroom where the pump station is to be mounted.
8. Attach the pump station to the wall using anchors.
9. Run poly flow out to the applicator.



Adjustments and Testing

a) Pump Station Adjustment

(1) For adjustment to the pumps see your chemical application manual.

(2) The air pressure to the foamers for the CTA is set around 20PSI. The wheel applicator will not have air.

b) Foamer Adjustment (CTA only)

(1) Fine adjustment to the consistency of the foam can be accomplished at the individual foamers. Each has an air and solution adjustment.

(2) Wet foam is desired so it will hit the tires and start to run, pulling the sand & dirt with it.



GENERAL OPERATION

1. These applicators apply cleaning solution to tires or wheels to ensure a completely clean vehicle is achieved.
2. Compressed air and cleaning solution are combined at the applicator and may be adjusted by ball or needle valves to fine tune the coverage and strength.

Activation Methods

1. Manually Activated; is used by an attendant to apply the solution as the vehicle passes.
2. Treadle Activated; will apply the solution as the vehicle passes without the need of an attendant. It is activated by a floor switch/treadle. In most cases a control box must be used.
3. Controller Activated; the vehicles tires pass over a tire switch at the entrance. Once the controller has noted the position of the tires, the CTA may be positioned anywhere in the tunnel. The CTA will be turned on/off by the tunnel controller by passing single phase power to the solenoid coil as the wheel/tire passes the applicator. This reduces labor, chemical waste, and equipment requirements for multiple.



PREVENTIVE MAINTENANCE

DAILY

1. Check for leaks around hoses and fittings. Repair any serious leaks immediately.
2. Perform general examination of operation, listening for any unusual noises.
3. Check spray pattern from nozzles, clean any dirty nozzles.
4. Check solution tank is full and at proper dilution.

WEEKLY

1. Check all nozzles for wear and replace if necessary.
2. Remove, clean, and reinsert the tuffy pad(s).

MONTHLY

1. Check all hardware and fittings for tightness and clean thoroughly.

ANNUALLY

1. Replace all nozzles to prevent excessive chemical usage and uneven application.



WARRANTY

SONNY'S ENTERPRISES, INC. FACTORY LIMITED LIFETIME WARRANTY

Equipment manufactured by SONNY'S ENTERPRISES, INC. is warranted to be free from defect in material and workmanship. Welded metal framework and other non-moving, non-wearable fabricated metal components manufactured by SONNY'S are warranted for the life of the equipment to the original purchaser. Fabricated metal wearable surface and moving components manufactured by SONNY'S are warranted for a period of one (1) year to the original purchaser of the equipment.

All components assembled to SONNY'S equipment that are manufactured by others are warranted by the appropriate manufacturer and subject to that manufacturer's limited warranty. Contact SONNY'S for the specific information on other component manufacturer's warranty terms. All new cloth shipped with new SONNY'S equipment is warranted for a period of one (1) year or 80,000, whichever occurs first.

This warranty is not assignable or transferable. The warranty period begins the first day following installation or 30 days from the original invoice date, whichever occurs first. The Seller's liability shall be limited to repair or replacement of materials found to be defective within the warranty period. In the event of repair or replacement this limited warranty is noncumulative. The Purchaser must supply the Seller with immediate written notice when any defects are found. The Seller shall have the option of requiring the return of defective material to establish the Purchaser's claim. Neither labor nor transportation charges are included in this warranty. Transportation damage claims are to be submitted to the carrier of the damaged materials.

This warranty is based upon the Purchaser's reasonable care and maintenance of the warranted equipment. It does not apply to any equipment which has been subject to misuse, including neglect, accident or exposure to harsh chemicals or chemicals that react violently with water, organic acids (e.g. acetic acid), inorganic acids (e.g. hydrofluoric acid), oxidizing agents (e.g. peroxides), and metals (e.g. aluminum). Chemicals corrosive to aluminum alloys, carbon steel, and other metals. Nor does it apply to any equipment which has been repaired or altered by anyone not so authorized by SONNY'S. Further, the equipment must be properly installed with proper accuracy of all specified plumbing, electrical, and mechanical requirements. This warranty does not apply to normal wear and tear or routine maintenance components.

EXCEPT AS EXPRESSLY STATED HEREIN, SONNY'S SHALL NOT BE LIABLE FOR DAMAGES OF ANY KIND IN CONNECTION WITH THE PURCHASE, MAINTENANCE, OR USE OF THIS EQUIPMENT INCLUDING LOSS OF PROFITS AND ALL CLAIMS FOR CONSEQUENTIAL DAMAGES. THE LIMITED WARRANTY EXPRESSED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. SONNY'S NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION HEREWITH.



CUSTOMER SERVICE

Please contact SONNY'S Equipment Department for installation and/or operational questions regarding this piece of equipment.

Please refer to the Parts Catalog and contact SONNY'S Customer Service Order Entry Department for any replacement parts for this piece of equipment.

You can also visit the web at www.SonnysDirect.com.

DEPARTMENT

Toll Free Main Line
Equipment Department

PHONE NUMBERS

800-327-8723
954-720-4100

FAX NUMBERS

800-495-4049
954-720-9292

Or you can email Sales at sales@SonnysDirect.com

Thank you for being a SONNY'S car wash equipment owner!

From all of us here at

