



Vacuum Boom 2500 System



Owner's Manual

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

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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.

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!

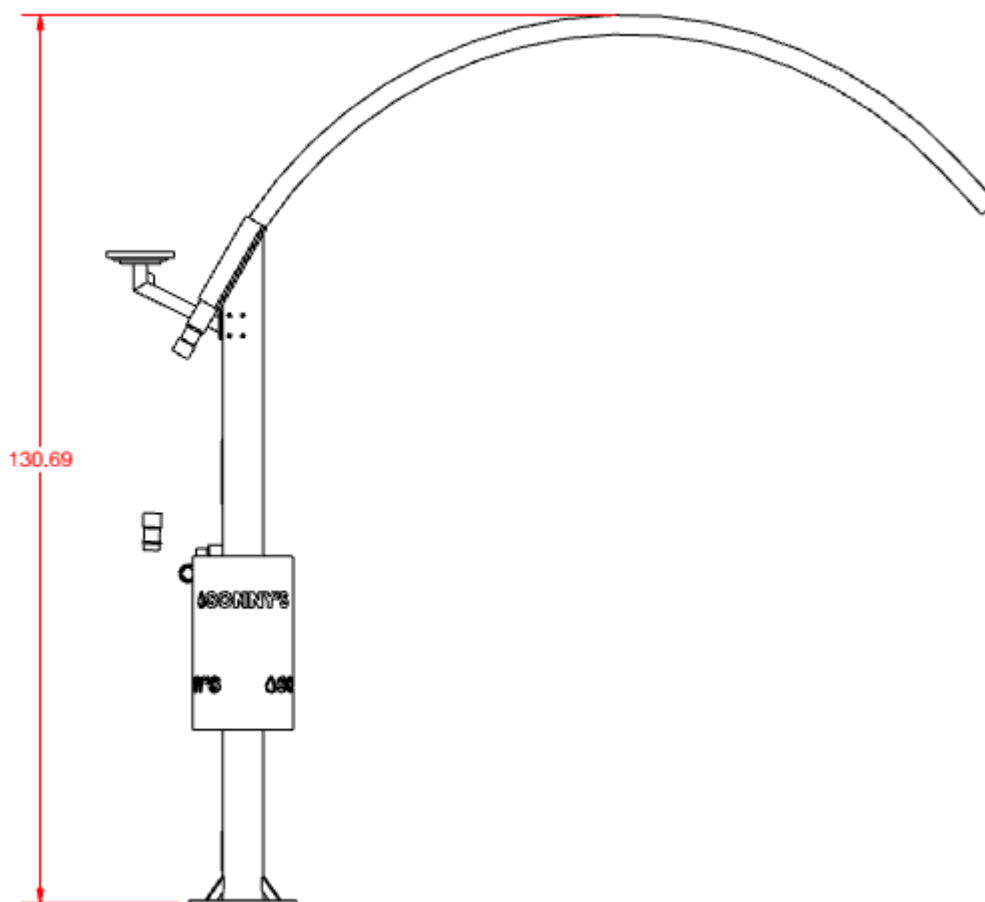


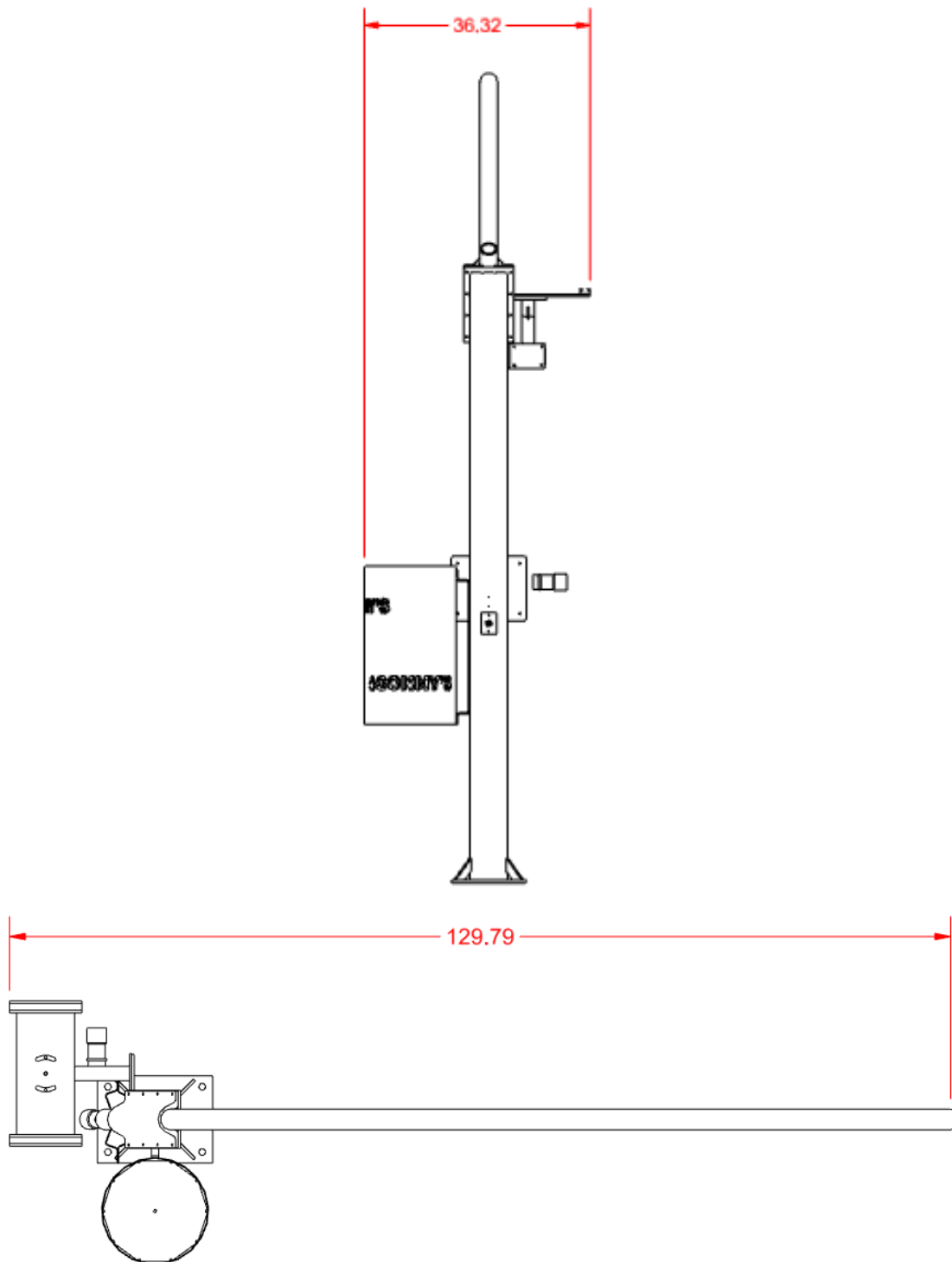
Product Features

- The boom keeps hoses securely off the ground providing better access to both sides of the vehicle and reducing wear and tear.
- Available powder coated options
- Slotted holes on top beam allow angle to be adjusted for different configurations
- Quick connect attachment of hose to boom
- Pole mounted claw holder for energy savings

Product Specifications

Height	130.69"
Width	36.32"
Length	129.79"





Optional Equipment



Vacuum Post Foot Covers

- Fits all vacuum posts and booms
- Attractive polypropylene cover
- Improves site appearance and reduces trip hazards



Crevice Tool



Express Claw



Hose



Cuffs, Valves, Adapters

Boom Options Available

The post mounted holster provides an air tight connection, reducing energy consumption and eliminating unnecessary air draw. Requires 1 Box of 1-1/2in or 2in hose for every 3 booms.

Boom Attachments



Item #	Description
40011245	Vacuum, Trash Collector Cyclone
10012022	Stainless Steel Branded Trash Receptacle
40011545	Stainless Steel Trash Receptacle
10011976	Stainless Steel Receptacle Black Liner
20015094	Mat Holder Single Nozzle Assembly
20015095	Mat Holder Dual Nozzle Assembly
20006846	Vacuum Express Holster with Bracket Only
20002098	Vacuum Crevice Tool Holster w/SS Bracket

For parts and accessories information, please refer to our catalog or visit our website at SonnysDirect.com.

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.

Technical Disclaimer

- Although building codes have been considered in developing all drawings, verification of site-specific conditions and compliance with federal, state and local building codes is the exclusive responsibility of the customer and/or architect and engineer.

Plumbing

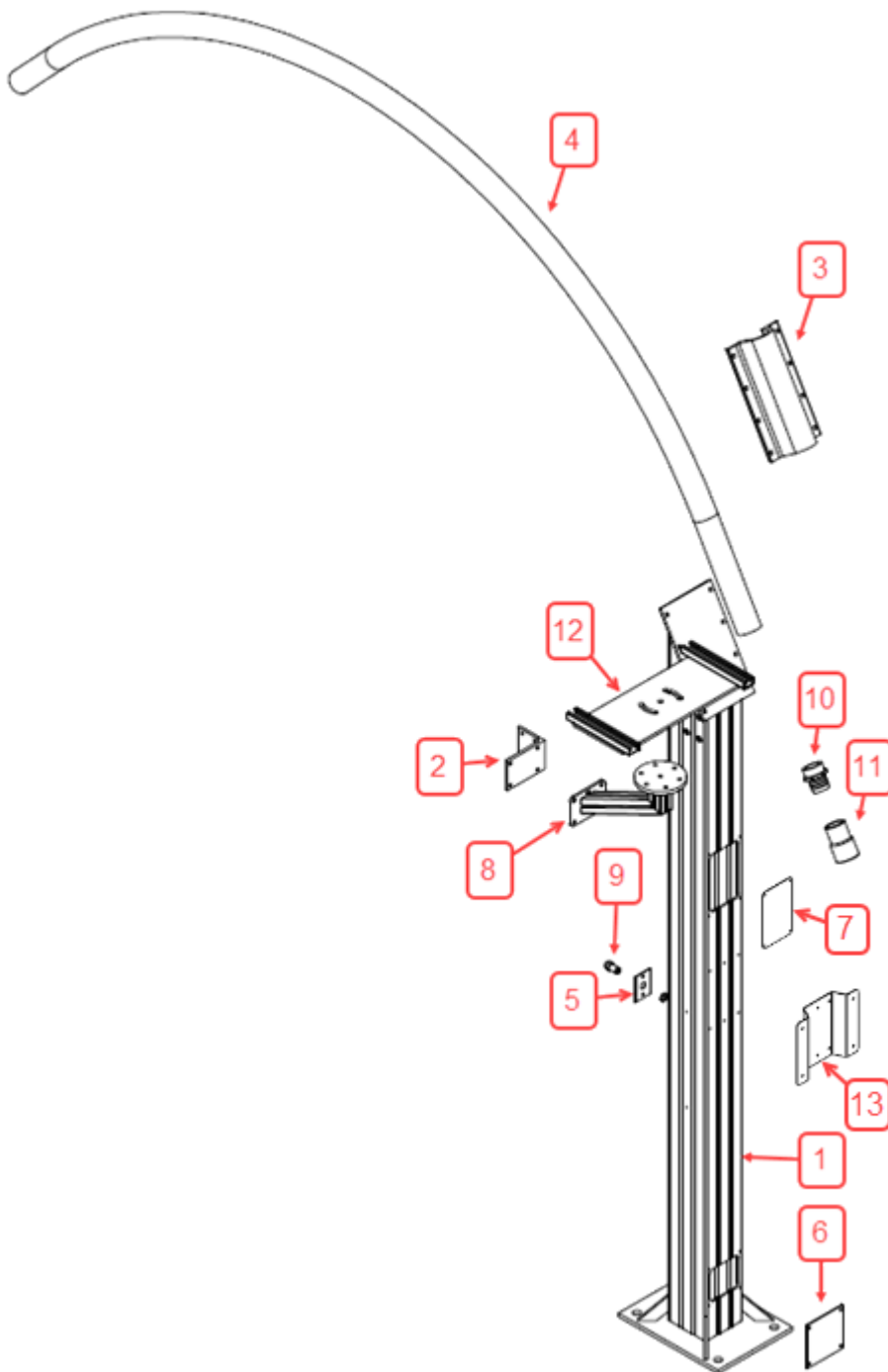
The Customer's Plumber is responsible to provide materials and installing the following:

- Interconnect from the suction connection on the separator tank to the vacuum hose drop lines. The following pipe sizes should be used for vacuum main suction lines;
 - Hose drops, short runs: **4"**.
 - Hose drops, long runs over 150': **6"** for first 75' then drop to **4"**.
- All piping turns should be with long sweep elbows, NOT 90 degree elbows. Minimize the number of turns from the main line to the separator tank.
- All turn down piping from the main line to the vacuum hose drops should be with Tee's and the hose fitting connection point on the "T" should be **2"** for each drop.
- Vacuum producer exhaust piping should go to atmosphere when the vacuum assembly is located in an enclosed area not subject to cool free airflow. If exhaust piping to atmosphere is required, it should be **4"** in diameter and heat resistant for at least the first ten feet. Exhaust piping must be weather protected at its exit point.
- Aluminum piping available to meet code requirements

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	20015974	Vacuum, 2500 Leg Post Weldment
2	1	20016211	Vacuum, 2500 Clamp Machined Blk PC
3	1	20016210	Vacuum, 2500 Clamp Machined Blk PC
4	1	20016163	Vacuum Boom Universal Pipe, Tapped Ends
5	1	10012160	Vacuum Post Air Access Cover
6	1	10012159	Vacuum Post Access Cover 5-13/16" x 6"
7	1	10012358	Vacuum Post Access Cover 5-13/16" x 9.5"
8	1	20015529	Vacuum Boom, Pipe Support Weldment
9	1	10003092	Bulkhead Union 3/8" Tube x 1/4" FPT
10	1	10001908	Adapter 1436-020 2" Barb x 2" MPT
11	1	10001839	Vacuum Cuff Rigid 2" Gray VC200R
12	1	20005175	Vacuum, Boom Top Pipe Mount Weldment
13	1	10013519	Cyclone Mounting Bracket

PARTS (Continued)



INSTALLATION

Tools

1. Safety Glasses
2. 1/2" Drive Ratchet Set
3. Standard Combo Wrenches
4. Tape Measure
5. Level

Work Force

(2) person

Consumables

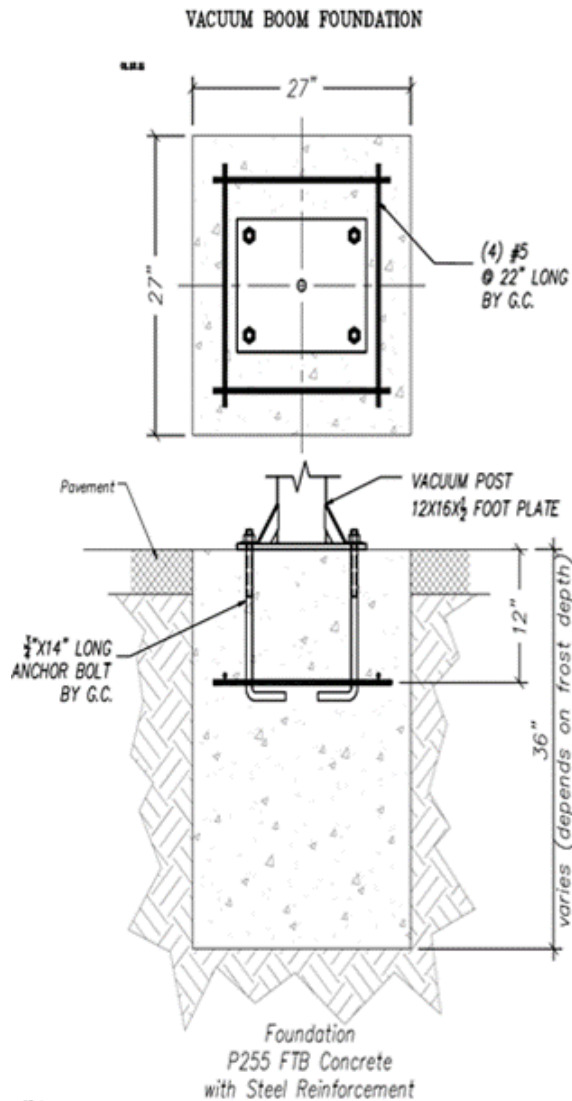
None.

Time (assuming no problems)

2.00 - 3.00 h

Post Foundation – Concrete Footer

1. Ensure that the mounting area for the boom can support the weight. See drawing below for the recommended concrete footer.



Notes:

* 16" FOOT PLATE DIM TO RUN PARALLEL TO VEHICLE TRAVEL

2. Insert the two plates into the top of the boom base and bolt into place.
3. If using the recommended J-bolts place the bottom half of the boom onto the bolts.
4. Turn the nut by hand until the unit is "snugged up."

5. If mounting to an existing concrete pad, drill the four holes in the concrete for the boom arch using a hammer drill and a **3/4"** carbide tipped masonry drill bit.
6. Clear the hole of all debris, then place the wedge anchor through the hole in the boom footer, and hammer it in to the drilled hole, ensuring that they are installed to the desired depth.
7. Turn the nut by hand until the unit is "snugged up."

Post Assembly

1. Attach the two **access covers** to the post.



2. Attach the air hose fitting and plate (parts #5 and 9) to the front of the post.



3. Attach the boom clamp (part #3) to the top of the post, but do not tighten all the way.
4. Slide the boom into the boom clamp.
5. Fully tighten the clamp.



6. Attach the top weldment to the pipe support (part #8 and 12). Attach both to the post using the black clamp (part #2).



7. Insert the adapter and vacuum cuff (part #10 and 11) into the lower end of the vacuum boom.

8. If you are using the optional Cyclone or Trash Receptacle, mount them using the pre-drilled holes in the post as indicated below:



GENERAL OPERATION

- Before beginning daily operation be certain that the cyclone separator is empty.
- If air leaks are heard around the cyclone separator check the seal on the quick dump.
- Unused vacuum hose drops must be firmly closed off at the vacuum tool mouth, so that in-use vacuum hose drops operate efficiently.

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 Equipment Sales at sales@SonnysDirect.com

Thank you for being a Sonny's car wash equipment owner!

From all of us here at



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.

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