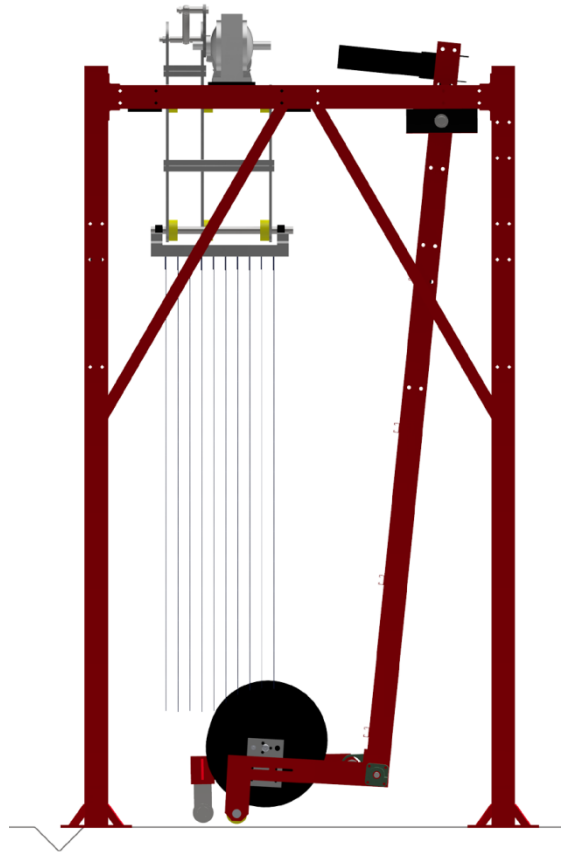




# Pendulum 807W Combo



## Owner's Manual

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



## \*Table of Contents\*

WARNING *SAFETY REQUIREMENTS* WARNING .....	3
*INTRODUCTION* .....	5
Product Specifications .....	6
*INSTALLATION* .....	8
Utilities Requirements .....	8
Dimensions UPDATE NEEDED? .....	9
Equipment Installation .....	11
Omni Wash Arch Installation .....	11
Adjustments and Testing .....	17
*GENERAL OPERATION* .....	18
*PREVENTIVE MAINTENANCE* .....	19
*WARRANTY* .....	20
*CUSTOMER SERVICE* .....	21

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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.
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.



## Owner's Manual Pendulum 807W Combo

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 Owner's 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 of servicing of this equipment please contact

TECHNICAL SERVICES DEPT.  
SONNY'S ENTERPRISES INC.  
5605 Hiatus Road  
TAMARAC, FLORIDA  
TELEPHONE: 800-327-8723    FAX: 800-495-4049.

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





## Product Specifications

- Unique mechanical tracking motion provides thorough coverage.
- Simple mechanical design offers minimal maintenance and automatically adjusts to any chain speed
- Tracks both front and back wheels for a full 5 feet.
- 4 inch square Quadex aluminum frame.
- 4 Zero Degree Plus nozzles & 1 15 degree on each Spinner.
- Also available as a Turbo with 4 – Zero degree nozzles & 1 Turbo Nozzle in center.
- Optional Pendulum Pus with 12 nozzles per side.
- Long lasting ceramic swivels.
- Spinner housing now constructed of Poly plastic.
- Sized for solution delivery of 20GPM @ 650-800PSI.
- 2HP, 3 phase electric drive motor.
- 60:1 ratio direct drive speed reducer.
- Non-grease basket bearings.
- 94 inches of tunnel length required.
- 156 inches of tunnel width required.
- 154 inches unobstructed overhead clearance required.

**For Parts/Accessories Information Please Reference our Catalog or Website.**



# Zero Footprint-Incredible Wheels

**Problem:**  
You need to give your customers a superior top-to-bottom wash in a compact space without sacrificing throughput.

**Solved:**  
The Pendulum Combo attachment available for both our SFM807 Mitter and TOP2k14 Top Brush radically increases cleaning ability with zero increase in footprint. Pendulum tracks each wheel, following it with a high pressure wash for five feet, using a simple mechanical design that requires little maintenance and automatically adjusts to any conveyor speed. Extended contact time loosens even the most difficult brake dust for a superior quality wash in a shorter equipment package.

- Durable QuadX aluminum frame
- Reliable greaseless UHMW bearings
- Includes water manifold
- 1 1/2HP 3-Phase 208-460V wash-down duty TEFC electric motor
- Shown with optional powder coating

**ELECTRIC**  
**HYDRAULIC**

Electric or Hydraulic Drive to Meet Your Requirements

**F**

FoundationFrame Attachments to Grow With Your Business

**Life Time**

LifeTime Limited Weldment Warranty for Generations to Come

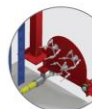
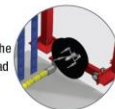
SFM807 Pendulum Combo with Standard Spinner

## Specifications

	SFM807 Mitter / Pendulum Combo		TOP2K14 Top Brush / Pendulum Combo	
	Inches	Metric	Inches	Metric
Footprint Length	104in	2.641m	132in	3.352m
Footprint Width	152in	3.860m	152in	3.860m
Height	140in (3.556m)			
Vehicle Clearance	90in (2.286m)			
Water Inlet	1/2in (12.7mm)			
Water (Pendulum)	Max. 20GPM @ 650-800PSI (1.3 ltrs/ sec 42 kgs/sq cm)			
Electric (Mitter)	3-Phase 208-460V Per Motor			

### Standard Pendulum Spinner

Four spinning Zero-Degree Plus nozzles and one center 15° nozzle deliver the necessary impact to loosen even the most difficult brake dust and other road grime for wheels that sparkle.



### Pendulum Spinner Plus

Features 3 spinners and 12 of our Zero-Degree Plus nozzles per side, increasing coverage to thoroughly clean every wheel – from the largest truck to most intricate custom rim.



# **\*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 and install a 3/4 inch city water line @60psi (nominal) with manual shut-off valve to be connected to the chemical distribution system for the Mitter.

### **Electrical**

- The Customer's Electrician is to provide and install 3 phase power (208V OR 230V OR 460V) to the 2hp electric motor at the top center of the Mitter frame and HP pump through a properly sized 3 pole circuit breaker and motor starter with 3 thermal overloads.

**BE CERTAIN THE 2hp ELECTRIC MOTOR IS PROPERLY WIRED FOR THE SUPPLY VOLTAGE !**

- The Customer's Electrician is to provide and install single phase power from the Customer supplied Start-Stop system to the Mitter motor starter and HP pump coil and soap solution solenoid valve and injection system

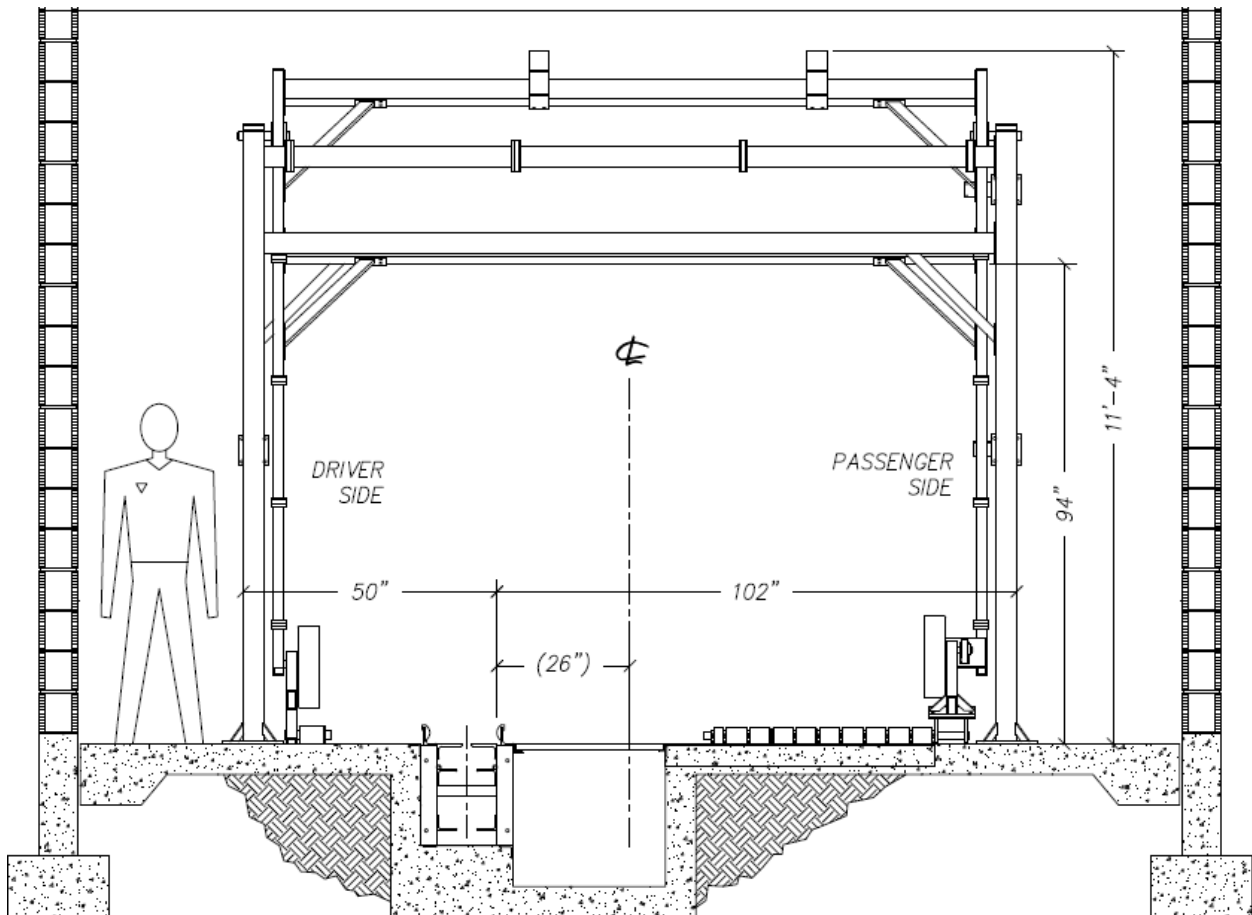
### **Technical Disclaimer**

- 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.

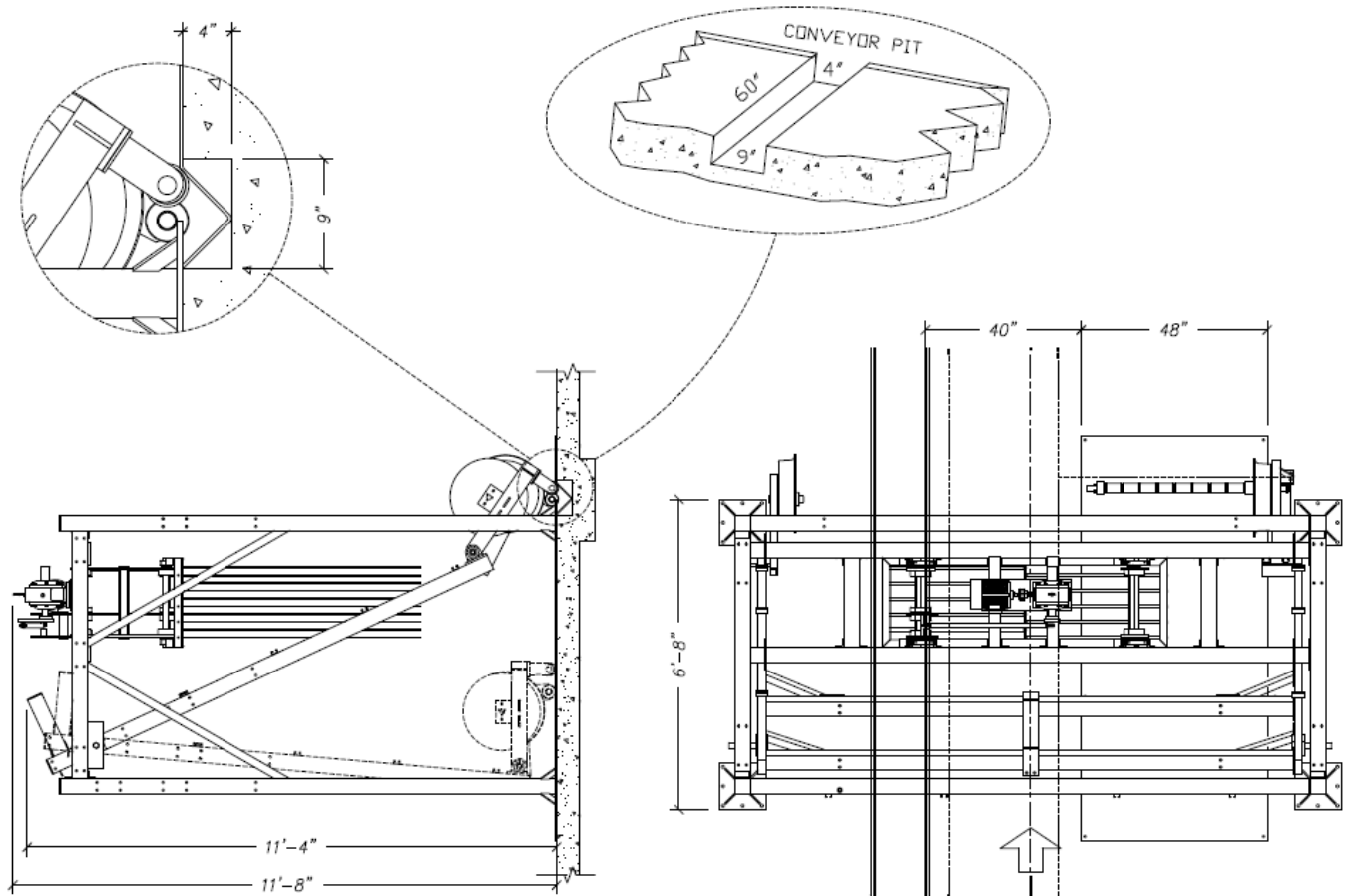


# Dimensions

Figure #1



**Figure #2**





# Equipment Installation

## Omni Wash Arch 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

### Consumables

1. Stainless Shims
2. PTFE Tape
3. PTFE Paste

### Work Force

Two (2) persons

### Time (assuming no problems)

2.00 - 3.00 hours

## Installation Steps

1. Unload the truck, being especially careful when unloading the 4' X 9'.75" X ½" thick steel plate. It is extremely heavy and will require 4 or 5 men to carefully unload and place in a safe area. A sturdy piano dolly can be used to move it once unloaded off the truck.
2. Once the truck is unloaded and all of the parts are in a safe area, locate the parts box. Also make note of the preassembled parts for future reference.
3. Verify that you have the correct numbers of nuts, bolts, and washers to complete the job. Also look over the required tools list and verify that you have the proper tools on hand.
4. If you have not done so, please verify that you have the minimum requirements for height (12'10"), width (13'), and front to back (7'7") for the Pendulum swing and between equipment.
5. Find the centerline of your wash. Typically it is 7" towards the driver's side of the pit when measured from the passenger's side. The centerline to the outside of the frame leg (not the foot) measurement is 76". Make and mark the centerline measurement in at least 3 places on each side that total at least 11' in length. Snap the 11' chalk line on the driver's and passenger's sides. These lines will represent the outside to outside measurement of each 4" leg (not the plate foot).



## Owner's Manual Pendulum 807W Combo

6. Mark the placement for the front legs (closest to entrance). They need to be a minimum of two feet from the end (furthest point towards the exit) of the previous piece of equipment. Make this measurement on both sides of the conveyor, using a square to make sure the marks are perfectly square with the conveyor.
7. Measure 3'9" from the measurement in step 6, making sure you stay square. Do this on both sides and mark following the 11' line you made in step 5. This measurement is the back of the entrance (closest to entrance) side leg to the front of the exit side leg (closest to exit). Take a can of clear lacquer paint and spray all of your marks to keep them from being smeared by being walked on or by water.
8. Bring both sets of legs into the wash tunnel. The legs are NOT specific to DS or PS. Lean each of the leg assemblies against each of the tunnel walls so they will be in position for the next step.
9. Take one of the 144' cross member that only has holes in the ends and raise up the end facing the driver's side of the tunnel (passenger side end is on the ground). Have a helper lower the leg assembly from against the driver's side wall to meet the cross member. Place four 1/2" X 5.5" stainless steel (SS) bolts through the holes, with the thread end facing the center of the wash. Make sure to place a SS flat washer on the bolt before pushing through the hole. Place a washer on the thread end and then a standard SS nut. Do the other three bolts the same, making sure to hand tighten only at this point.
10. Follow the same steps for the exit end top cross member . Please note that this cross member has the "Unistrut" welded to it. Again, only hand tighten the bolts.
11. With one helper holding the driver's side legs from sliding with his feet and also pulling back on the leg assembly, have helper #2 pick up the two cross members and raise over their head (they are not heavy) while a third helper brings the passenger side legs over to the cross members and holds steady. Helper #4 can now line up the cross members with the predrilled holes in the legs and slide the bolts through as done in step #9. Again, only hand tighten the bolts.
12. The structure is now secure and may be assembled with just two people. Place one ladder next to the passenger's side leg and one next to the driver's side leg. It helps to have the 1/2" X 5.5" bolts with washers on the bolt ends and have nuts and flat washers on top of the two ladders, ready to use.
13. With one helper on the passenger side ladder, entrance side of the leg, have helper #2 retrieve a cross member (one of two cross members with holes drilled 25" from the end) and hand one end to helper #1 on the passenger's side ladder and have helper #2 carefully climb the driver's side ladder (entrance end of the leg assembly), carrying the cross member with him. Helper #2 on the driver's side may now slide bolts through the legs in the same fashion as was done when installing the other cross members, making sure to leave bolts finger tight.



## Owner's Manual Pendulum 807W Combo

14. Follow the same steps from above to install the exit end cross member.
15. Locate the four (4) 25" long, angle cut braces. Have 16 ½" X 5.5" SS bolts ready with washers already on the bolts. Starting at the passenger side, entrance end, have helper #1 on a ladder. Helper # 1 slides the two bolts through the leg assembly, then slide the 25" angle cut brace over those bolts. Insert upper bolts through the upper cross member, and hand tightened with NYLON LOCK BOLTS. Follow the same steps for the remaining three braces, leaving ALL bolts finger tight till the end.
16. Raise the Mitter frame using a forklift and bolt into place.
17. Locate the black UHMW (plastic) block. The plastic block will already have four (4) ½" X 9" bolts through it and the aluminum flat bearing mount cap. Unscrew the four nuts and washers from each black plastic bearing block. Have helper #1 climb the ladder on the driver's side and slide the four bolts through the pre-drilled holes ON TOP of the now assembled leg assembly. Replace washers removed and secure the nylon bolts to the ½" X 9" SS bolts, finger tight.
18. Locate the Pendulum pivot arms. The passenger side has a plate on the bottom, and the driver's side has a pivot shaft on the bottom. Both arms will have a stainless shaft pre-installed, with two split clamps on the shaft. Loosen the inside split clamp so it can slide and remove the outer split clamp and set aside. Starting on the driver's side, slide the pivot arm through the black plastic bearing. Slide the split clamp onto the end of the stainless shaft and leave loose for now.
19. Follow step #17 for passenger's side.
20. Locate the sixteen (16) 3", eight (8) 3.5", and eight (8) 5.5" long SS bolts. Place flat washers on each bolt and have ready. This will expedite the assembly process.
21. Locate the two pivot arm cross members, four 25" long angle braces and two 4 X 14" flat cylinder mount plates (there is a stud in the middle of the plate).
22. Have helper # 1 on the passenger's side, with a ladder set under the center of the frame assembly. Helper #1 will pick up one of the two pivot arm cross members, holding steady for helper # 2 who is already on a ladder on the driver's side in the center of the frame assembly. **\*\*\*\*Be cautious of the conveyor and grating on the driver's side.** Helper #2, on driver's side, will locate the SECOND (LOWER) SET of four (4) holes on the driver's side pivot arm, and slide TWO thee (3) inch bolts through the BOTTOM holes only (do not put bolts through the upper holes yet). Have helper #1 do the same on the passenger's side.
23. Follow the same procedure as step #21, for the upper pivot cross member. This time secure the cross member with four (4) three (3") inch bolts. Make sure to place a flat washer on the bolt beforehand tightening the nut. Follow the same procedure for the passenger side.



## Owner's Manual Pendulum 807W Combo

24. With a helper on the driver's side ladder, have him put two three (3") inch bolts with washers through the lowest holes in the pivot arm (the two holes closest to the ground). Helper # 2 will now hand helper # 1 an angle cut 25" brace, which helper # 1 will slide on the 3" bolts he just put into the pivot arms. Secure hand tight with a flat washer, lock washer and nut. Do the same on the passenger's side.
25. Have a helper on a ladder on the driver's side and put two (2) 5.5" bolts and flat washers through the TOP of the lower cross member and the angle brace. Secure brace to cross member with flat washers, lock washers and hand tighten nut. Do the same on the passenger's side.
26. On driver's side, have a helper on a ladder with four (4) 3.5" bolts with flat washers installed. Slide the 3.5" bolts through the upper mount holes for the lower cross member (the ones left empty is step 24) and also the two holes directly above those for the 25" angled brace.
27. Slide the 25" angled brace over the 3.5" bolts, then slide the 4" X 14" plate onto those bolts AND the upper two 3.5" bolts for the lower cross member. Place a flat washer, lock washer and nut on each of the four bolts and hand tighten. Slide two 5.5" bolts and flat washers through the two holes in the upper cross member and upper 25" angled brace. Secure with a flat washer, lock washer and nut. Hand tighten the bolts.
28. Move to passenger's side and follow the same procedure.
29. Staying on the passenger's side, locate the Pendulum lower arm with two "pillow block" bearings attached, four 1.5" bolts, four flat washers, and four lock washers.
30. Loosen the set screws on the "pillow block" bearings in case adjustments are needed to mount bearings to the swing arm plate. Secure the bearings to plate mount on passenger's side Pendulum swing arm. You may tighten the bolts securely.
31. Center the lower arm between the "pillow block" bearings and tighten the set screws firmly securing the shaft to the bearings.
32. Locate the Pendulum "Roller Arm" assembly. Along with four 2" bolts, eight flat washers, four lock washers and four nuts.
33. Slide a flat washer onto each of the four 2" bolts, and slide the bolts through the lower arm, with the threads pointing towards the ground. Secure each bolt with flat washer, lock washer and a nut. Keep hand tight for now.
34. Locate one of the two spinner / can assemblies, and four 3" bolts and 8 flat washers. You will need two bolts per side. Move the whole are back and forth to check for smoothness of movement. If no binding is present, then move to the next step.

**NOTE: The spinner assembly has two mounting positions. If most of your business is vehicles with 15"-18" rims, then use the lower mounting position. If you have trucks and**



## Owner's Manual Pendulum 807W Combo

**cars with larger wheel combinations, then use the upper mounting position. You may change the position any time, if needed.**

35. On the driver's side, locate the driver's side lower pivot arm. Slide the lower pivot arm onto the driver's side swing arm, making it flush against the side of the swing arm. Allow the roller to sit flat on the ground.
36. Remove the outer split collar from the roller resting on the ground. Two split collars are put the on the shaft for shipping only. Use the split collar removed to secure the lower pivot arm assembly to the lower swing arm. Tighten the slit collar and check for ease of movement.
37. Bolt the spinner assembly/ can to the lower arm, using the same holes as in step 36.
38. Locate the two spring stops. These parts are side specific. To find the driver's side and passenger's side, lay them on the ground, with the springs inside of the frame legs. When held up with the spring on the inside of the driver's side entrance leg, the spring and rubber stop should be pointing down slightly. Once located, mount the spring stop three inches below the driver's side lower angle brace mounting point. Repeat this step for the passenger side.
39. Have helper #1 on the ladder at the exit end of the Pendulum. Helper #2 will pass up the counterweight to helper #1. Helper #1 can rest the counterweight on the top of the ladder till helper # 2 can assist from a second ladder next to the first. Both helpers should get their hands on the counterweight, and carefully move into position. The two counterweights will be centered on the top cross member of the Pendulum swing arms. Secure with two (4) 5.5" bolts with washers on both ends of the bolt.
40. With helper #1 on one side of the Pendulum, and helper # 2 on the other, both should push and or drag the frame assembly onto the front leg marks made earlier in step # 6. Now move the exit end legs onto the rear marks. Verify you are square with the conveyor by taking measurements from each leg to a common point on the conveyor. Once the Pendulum is square, move to the step.
41. With helper # 1 holding the frame from moving off its marks, have helper # 2 drill the lag holes in the concrete. Once one hole is drilled, have helper #1 hammer the lags into the concrete with a 3 pound sledgehammer. Continue this procedure placing four lags in each leg. Once all lags are hammered into the concrete, you may tighten them down with a 1/2" impact gun and a 15/16" impact socket.
42. With helper # 1 and helper # 2 both on ladders, begin to tighten ALL of the bolts NOT tightened before. You may use the impact gun with a 3/4" socket or regular sockets and wrenches. When adjusting the split collars installed in step #17, make sure the swing arms are an even distance from the black plastic bearings. Once centered, tighten the outside collar, then push the inside collar so it is touching the black plastic bearing. Tighten the inside collar. Once completed move to the next step.



## Owner's Manual Pendulum 807W Combo

43. The start of the V in the plate lines up with the exit foot. See Figure #2
44. Place the "tab" end of your tape measure on the passenger's side of the pit. Extend the tape measure 66" (sixty six inches) towards the passenger's side wall, making sure it is square and crosses through the mark you made in step 43. Mark 66" with a marker. Follow the same procedure for the mark made 9" (nine inches) towards the exit from the 33" mark. Drop a chalk line from the passenger's side of the pit to the 66" mark. Do the same for the other mark. Connect the chalk lines at 66", and you should now have a rectangle 66" long by 9" wide. Locate the clear lacquer spray paint and spray all of the chalk lines you have just made.
45. The rectangular area will be the area of concrete that **HAS TO BE CUT**. It is suggested that you hire a professional concrete cutter to do this. **The concrete cut has to be a minimum of 6" deep and a minimum of 9" wide. \*\*\*\*If you are NOT cutting the concrete now, then you should remove the four bolts that hold the Pendulum roller arm to the swing arm. This will allow you to continue to wash cars until you are ready to cut the concrete.**
46. Once the concrete is cut and the hole is free of debris, 4 helpers can carefully move the 1/2" steel plate into position. The steel plate needs to be squared from the inside of the passenger's side legs, with the "Vee" of the steel plate centered in the 9" by 66" trench created when removing the concrete.
47. Replace the Pendulum roller arm if removed, making sure all bolts are tight. Once the roller is secure, test movement by pushing the arm forward so the roller falls into the steel "VEE" at the end of travel. If the roller arm "hangs" up a bit, use a pry bar to move the steel plate back or forward slightly until roller arm no longer "hangs" up. You may now secure the steel plate securely to the ground with the 4 (four) supplied 1/2" concrete anchor bolts.
48. Once all high pressure hooks ups are made, the Pendulum is ready for a test run.





# Adjustments and Testing

## Adjustments

1. Water Pressure to Nozzles is adjusted at the HP bypass valve on the Water Pump station to approximately 800psi.
2. Oscillating Speed Adjustment (optional Omni Top)
  - (1) The oscillating speed of the manifold can be adjusted at the flow control on the hydraulic power pack.
  - (2) Speed should be set to 60-70 RPM as counted at the hydraulic motor shaft.
3. Tracking Speed Adjustment (optional Omni Top)
  - (1) The manifold has two air pressure regulators on the air manifold to control tracking. Should be set to 60 psi.
  - (2) The manifold has a brass flow-control valve on the reservoir to regulate how fast the manifold tracks the vehicle as it passes and a black plastic flow-control valve on the air cylinder to control how quickly it returns to the ready position, facing the tunnel entrance.
4. Check the Direction of Motor Rotation
  - (1) Rotation of the electric motor should be CLOCKWISE as viewed from the fan (rear) side of the 2hp electric motor.
  - (2) Check for proper oil level in the speed reducer and make sure a breather plug is inserted at the highest port on the speed reducer.



## \*GENERAL OPERATION\*

### Spinner Wheel Cleaners

Starting and stopping Spinners is controlled by the Customer's equipment programmer signal to the motor starter coil controlling three phase power to the high pressure water pump. The speed of the rotation of the Spinners being driven may be changed by the bypass/regulator adjustment on the pump.

### Mitter Operation

The Mitter drive assembly (electric motor and speed reducer) that causes the vehicle cleaning curtains to move side to side with vehicle travel is started and stopped by a remote Customer supplied Controller system. This drive actuation system should also control soap solution delivery to the Mitter spray bar.



## \*PREVENTIVE MAINTENANCE\*

### DAILY

- 1) During Opening Checks, check for leaks around hydraulic hoses and fittings. Repair any hydraulic leaks immediately. (Omni Top option)
- 2) Check spray pattern from nozzles and clean any dirty nozzles.
- 3) Operational Checks
  - a) Check for leaks around hoses and fittings. Repair any serious water or air leaks immediately.
  - b) General examination of operation, listening for any unusual noises.
  - c) Observe fluid level in reservoir. If low, add fluid or if contaminated, drain and replace. (Omni Top option)
  - d) Inspect Mitter cloth for cuts, grease, or oil. Remove and repair, or replace, any cloth panel if any of these conditions are found.
  - e) Check for any oil leaks around the gear reducer, and repair if needed.

### WEEKLY

- 1) Check all nozzles for wear and replace if necessary.
- 2) Perform a close inspection of operating mechanisms and hoses for problems.
- 3) Grease the rod end on both ends of the drive arms.

### MONTHLY

- 1) Inspect all UHMW bearings for wear. Replace if necessary.
- 2) Inspect all UHMW rollers on the push arm for wear.
- 3) Inspect all split collar couplers for wear and replace as needed.
- 4) Inspect all hardware and fittings for tightness and clean the entire assembly thoroughly.
- 5) Grease all pivot point bearings.

### ANNUALLY

- 1) Drain, purge, and refill hydraulic system. (Omni Top option)
- 2) Drain, flush clean, and refill oil in the speed reducer with:
  - a) SAE 90 gear oil for ambient temperatures of 15 degrees Fahrenheit through 50 degrees Fahrenheit.
  - b) SAE 140 gear oil for ambient temperatures of 50 degrees Fahrenheit through 120 degrees Fahrenheit.

**DO NOT OVERFILL !!** Remove the speed reducer case plug just above the output shafts and fill to that level.



## **\*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](http://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](mailto:sales@SonnysDirect.com)

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

*From all of us here at*

