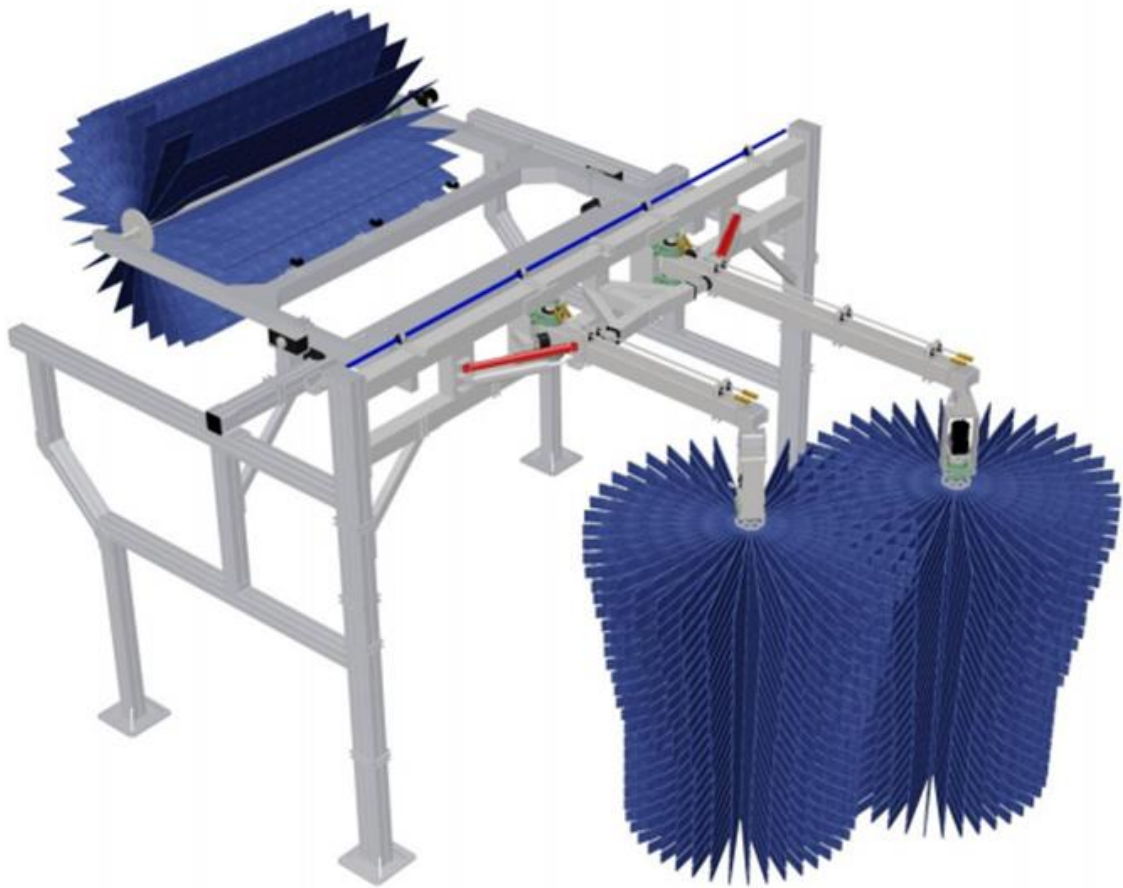




Top Brush Electric and Hydraulic



Owner's Manual

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Make CarWashing Easy™



READ ALL INSTRUCTIONS PRIOR TO OPERATING

- This manual is a comprehensive step-by-step user instruction guide for the **Top Brush** and components. To review other manuals go online to SonnyDirect.com under Support Tab.
- Make sure to read, understand and follow all these instructions.
- To address any questions relating to ordering parts, operating the **Top Brush**, installation, troubleshooting, maintenance, service or anything else, contact **Sonny's Technical Support Team at 1-800-327-8723, Ext: 234.**
- All deviations and alterations from these instructions **MUST** be reported to Sonny's The CarWash Factory®. **Keep this manual in a location where it may be used for ongoing reference.**



IMPORTANT SAFEGUARDS AND WARNINGS

- **WARNING: 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. These procedures MUST be followed to avoid personal injury, death and/or dismemberment.**
- All parts and components **MUST** be installed by experienced and trained technicians.
- **No** unauthorized personnel should ever be permitted in the wash tunnel or near the equipment at any time.
- Hardhat, safety glasses with side shields, closed steel toe shoes, anti-impact and cut resistant gloves, dust mask, and earplugs if operating power tools, **MUST** be worn.
- When cutting or grinding any metal, safety glasses, earplugs, and dust mask **MUST** be worn.
- **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.**
- **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 injury, death, or dismemberment.**
- 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.



IMPORTANT SAFEGUARDS AND WARNINGS

- **Electrical connections and repairs MUST ONLY be performed by a Licensed Electrician.**
- **Plumbing connections and repairs MUST ONLY be performed by a Licensed Plumber.**
- When working on any equipment that is higher than your shoulders, always use a fiberglass ladder that is in good condition.
- Use proper lifting technique. Team lifts are required for items over 50 lbs.
- Do **NOT** alter or modify parts in any way and do **NOT** interchange or substitute any components without the authorization of your supervisor and Sonny's The CarWash Factory.
- Do **NOT** install any parts or components into faulty materials.
- All damages and defects **MUST** be reported to both your supervisor and Sonny's The CarWash Factory.
- If there are any malfunctions with the **Top Brush**; or if any questions arise regarding the equipment operations, immediately contact your supervisor or Sonny's The CarWash Factory.
- **Only** use approved hardware, parts, and components with the **Top Brush** or any other equipment.
- Protect your body parts against sharp corners and edges at all times.
- Keep loose articles of clothing and jewelry away from the removal, installation, or operation of all equipment.
- The personnel installing the **Top Brush** are responsible for making sure it works according to the instructions in this manual.
- Always remove ladders, tools, parts, etc, from the wash tunnel when finished.
- All personnel **MUST** be trained in the safe operation of all equipment, wash tunnel operations, safety regulations, emergency shutdown and maintenance practices to avoid any accidents.
- **Only** personnel specifically instructed and trained are permitted to enter the wash tunnel to perform inspections or maintenance. At least two qualified maintenance personnel **MUST** be present when performing equipment repairs or preventive maintenance.
- **IMPORTANT:** Call Technical Support to adjust wash cycle when new equipment is installed.
- **WARNING:** All hydraulic and electrical systems in the wash tunnel equipped with a torque relief or overload should be checked and set to the minimum amount that will allow for proper functionality under normal washing conditions.



IMPORTANT SAFEGUARDS AND WARNINGS

- **WARNING:** Possible wet floors and slippery conditions! To avoid an accident that might result in personal injury, death or dismemberment, all personnel **MUST** proceed with Caution.
- **WARNING:** Do **NOT** enter the wash tunnel when the equipment is operating. Personal injury, death and/or dismemberment may occur.
- **WARNING:** Make sure the proper Chemistry (Brush Lubrication) is being used in the Car Wash Tunnel to prevent vehicle and/or equipment damage.
- **WARNING:** If the Equipment Installation Dimensions at the time of installation are **NOT** measured correctly, it may result in equipment damage and/or failure. Dimensions **MUST** be verified if equipment is already installed. Contact Sonny's Technical Support Team at 1-800-327-8723, Ext: 234 for any Installation questions.
- **WARNING:** All connections and repairs **MUST ONLY** be performed by Licensed Professionals. Perform all trade work in compliance with all applicable local and national codes.
- **WARNING:** 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 to verify compliance.
- **WARNING:** Do **NOT** attempt to repair or adjust any pressurized liquid or pneumatic part, hose, pipe, or fitting while that equipment is in operation.
- **WARNING:** Do **NOT** operate any equipment that requires safety covers with those covers removed or improperly installed. Do **NOT** operate any equipment if any component of that equipment is suspected to be defective or malfunctioning.
- **WARNING:** Store all cleaning, 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.
- **WARNING:** 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.
- **WARNING:** All Equipment **MUST** be given regular maintenance to prevent equipment damage and/or failure that will **VOID** the warranty.

SAVE THESE INSTRUCTIONS

INTRODUCTION

Make CarWashing Easy

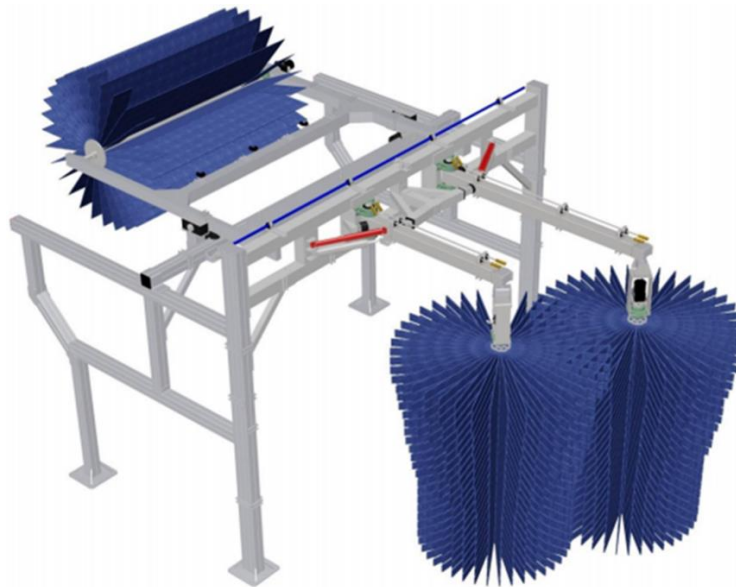


Join Sonny's
OneWash and Save

Learn More at:
www.SonnysDirect.com/onewash

EQUIPMENT SPECIFICATIONS

- Designed to occupy 120" of tunnel length and 144" width.
- 4" x 4" aluminum frame and legs for stability and durability.
- Pivot bearing is solid UHMW and with a grease fitting to increase smoothness of operation.
- Double Roller bearings on shaft.
- Hydraulic brush drive motors use 6GPM @ 800PSI.
- Pivot shaft constructed of 1½" stainless steel.
- Hub that doesn't absorb water with NEOGLIDE.
- Optional Whisper Brush to reduce noise.
- Chemical delivery system sold separately.
- Brush tracks the contour of the vehicle using only a counterweight.
- ½" city water connection.



TOP BRUSH COMPLEMENTARY EQUIPMENT



Problem You need to remove heavy dirt or bugs from vehicle top surfaces and eliminate windshield "eyebrow" in a limited tunnel distance.

SONNY'S Hush Series Top Brush

Solved SONNY'S Hush Brush features a simple proven design with a unique counterweight balancing system that applies equal wash penetration on all horizontal surfaces. Neither the included NEOGLIDE foam wash material nor hub absorbs water which allows the pressure to remain constant regardless of volume. The new Hush Brush reduces interior noise without sacrificing wash quality, brush longevity, or safety.

ELECTRIC
HYDRAULIC



Features

- Gentle Hush Brush with NEOGLIDE foam material
- Operator-friendly stainless steel counterweight adjustments
- Cleans contoured hoods and eliminates windshield "eyebrows"
- Perfect balance
- Sturdy frame & standard components for easy maintenance
- Durable QuadX Aluminum frame construction
- Optional Foundation Frame provides ability to mount additional wash components



Protect & beautify your equipment with optional powder coating. Call for pricing.



New Hush Brush with genuine NEOGLIDE foam material is quieter than ever before!



Counterweight delivers perfect balance and equal wash pressure.



Hush Brush with NEOGLIDE foam wash material is gentle, quiet, and does not retain water.



Included detergent application system.



Available with electric or hydraulic motor.

UTILITIES REQUIREMENTS

Utilities interconnection and the materials required for interconnection to Sonny's equipment are the responsibility of the customer.



All connections and repairs MUST ONLY be performed by Licensed Professionals. Perform all trade work in compliance with all applicable local and national codes.

Water - The Customer's Plumber is responsible for:

- The Customer's Plumber is to provide and install a ½" city water line @60PSI (nominal) to the solenoid valve on the chemical distribution system for the Washer.

Electric - The Customer's Electrician is responsible for:

- The Customer's Electrician is to provide and install single phase power from the (24 or 110 VAC as determined at time of order) from the Customer's Controller System to the liquid solenoid valve for the brush spray bars and, if required, the motor starter coil for the hydraulic power pack feeding the brush and any pump motor for the chemical distribution system.
- The Customer's Electrician is to provide and install single phase power from the remote push-button station through the tunnel equipment programmer to the supplied air solenoid valve on the Air Distribution Manifold for retract of both washers upon selective signal.
- The Customer's Electrician is to provide materials and install 208VAC or 230VAC or 460VAC, 3-phase, 60Hz power to the electric motor on the hydraulic power pack or VFD panel from a properly sized three pole circuit breaker and motor starter with three thermal overloads when applicable.

Compressed Air

- The Customer's Plumber is to provide and install a ½" compressed air line from the Air Compressor to the Air Distribution Manifold for the Retract functions.



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, it's the exclusive responsibility of the customer and/or architect and engineer to verify compliance.

TOP BRUSH DIMENSIONS

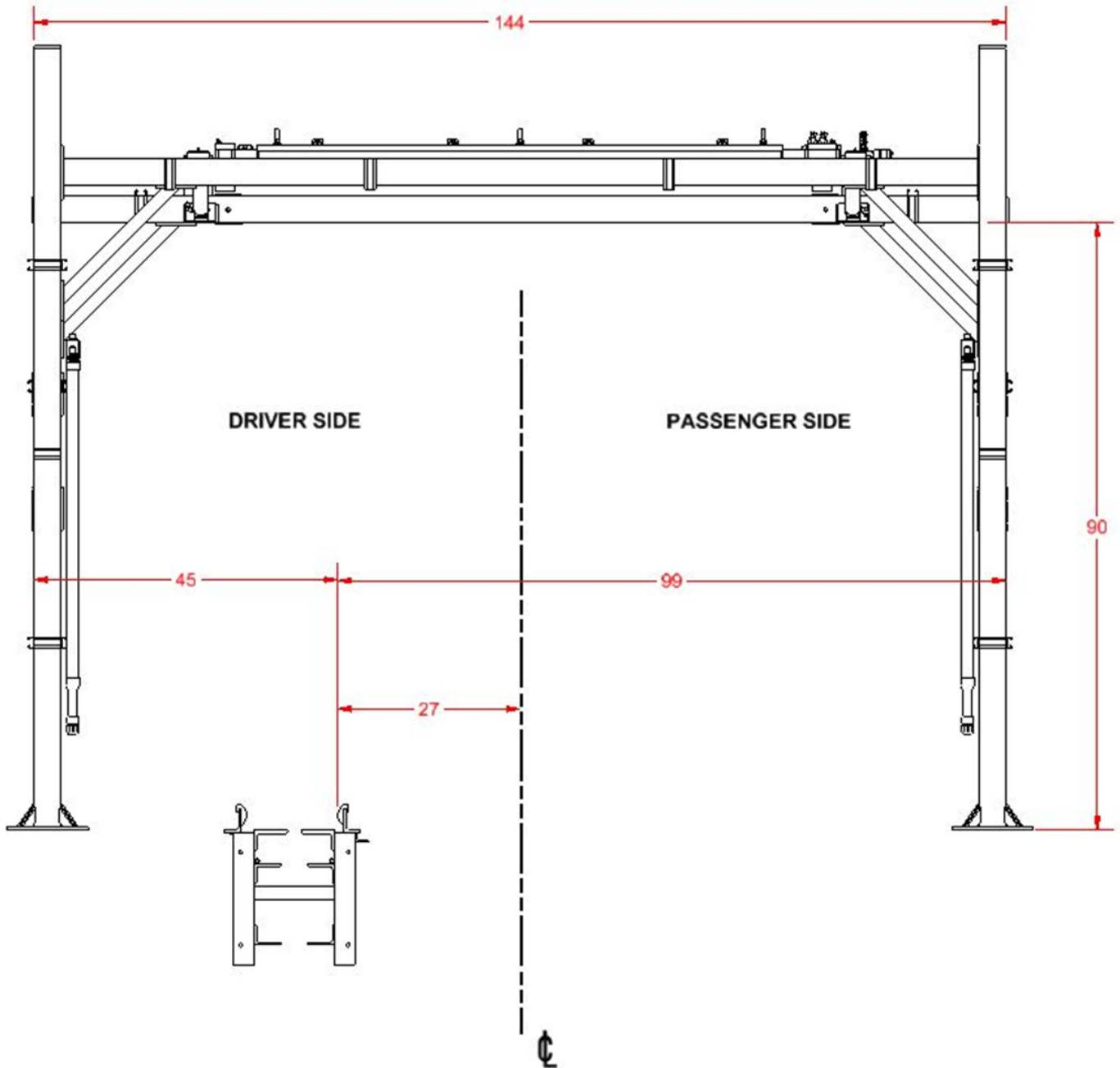


Figure # 1

TOP BRUSH DIMENSIONS

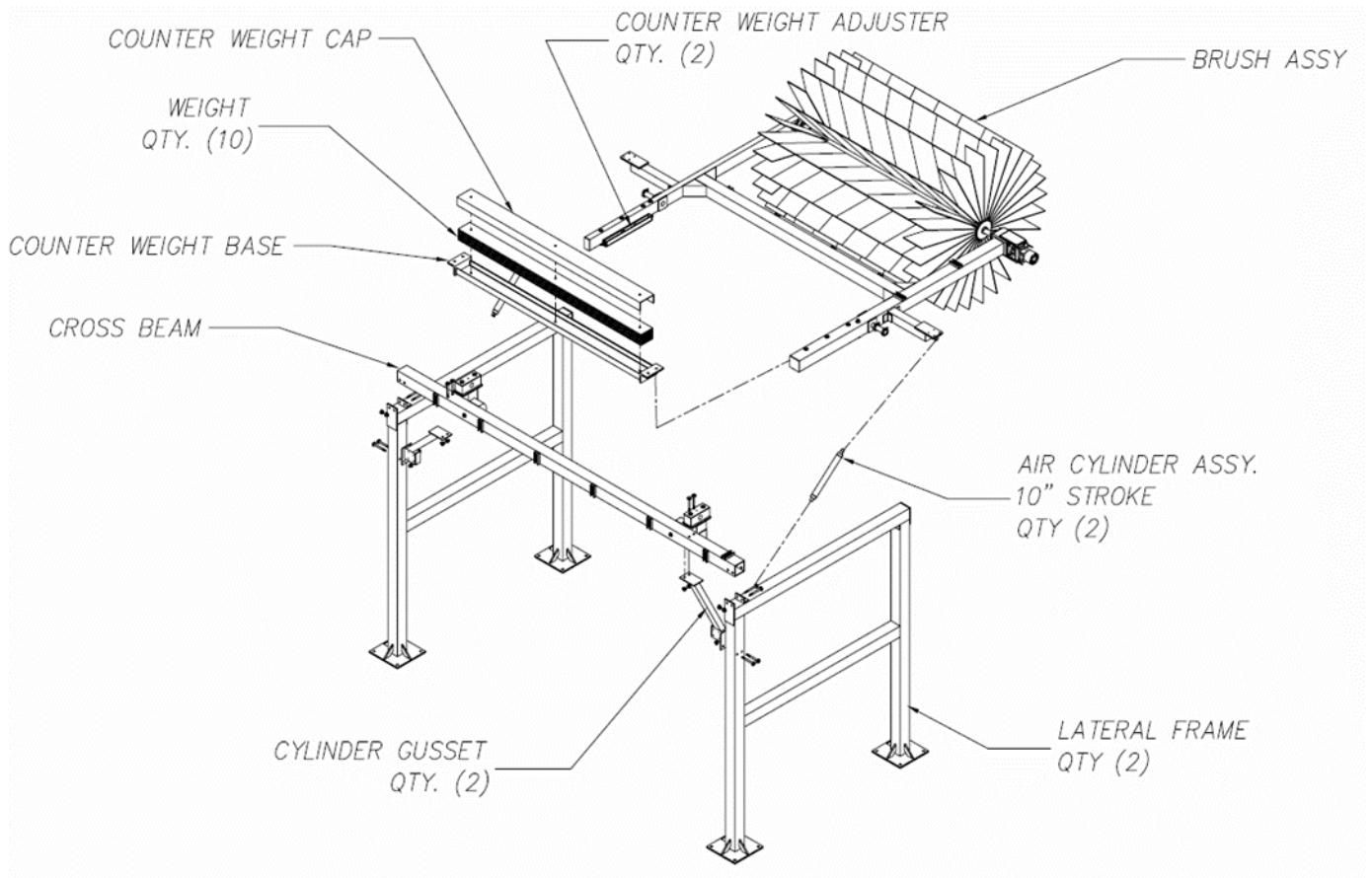


Figure # 2

AIR CYLINDER POSITION

TOP BRUSH PNEUMATIC DIAGRAM TYPICAL EACH CYLINDER

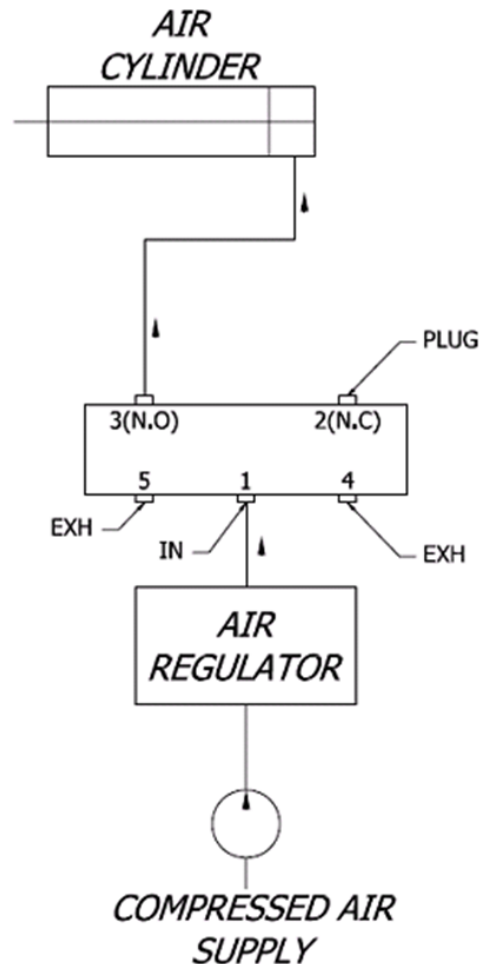


Figure # 3

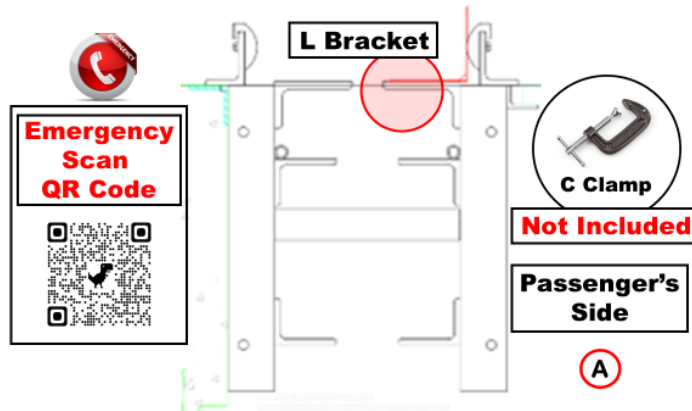
SAFETY WEAR REQUIRED FOR INSTALLATION



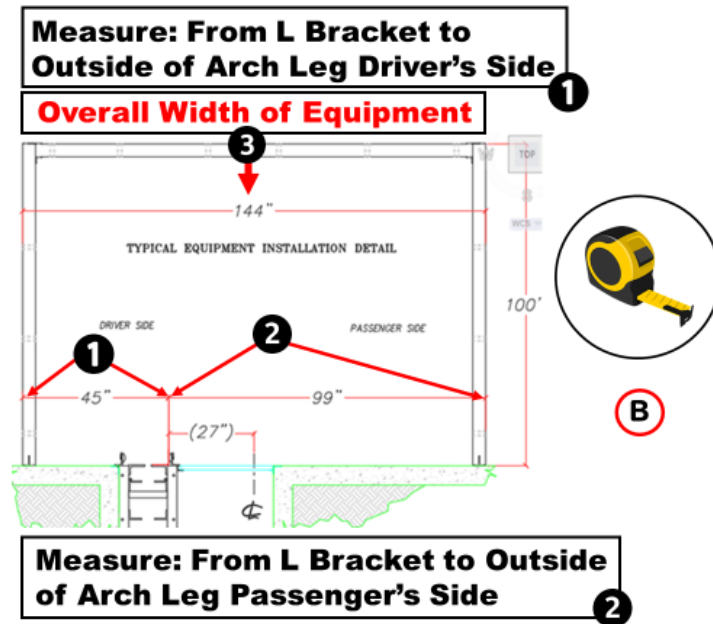
WARNING: Make sure to follow Local and State Safety Wear Required Regulations to ensure the safety of all personnel. Failure to follow Safety Regulations may result in personal injury, death and/or dismemberment.

EQUIPMENT INSTALLATION DIMENSIONS

 **L Bracket NOT included, order Kit # 20019396**



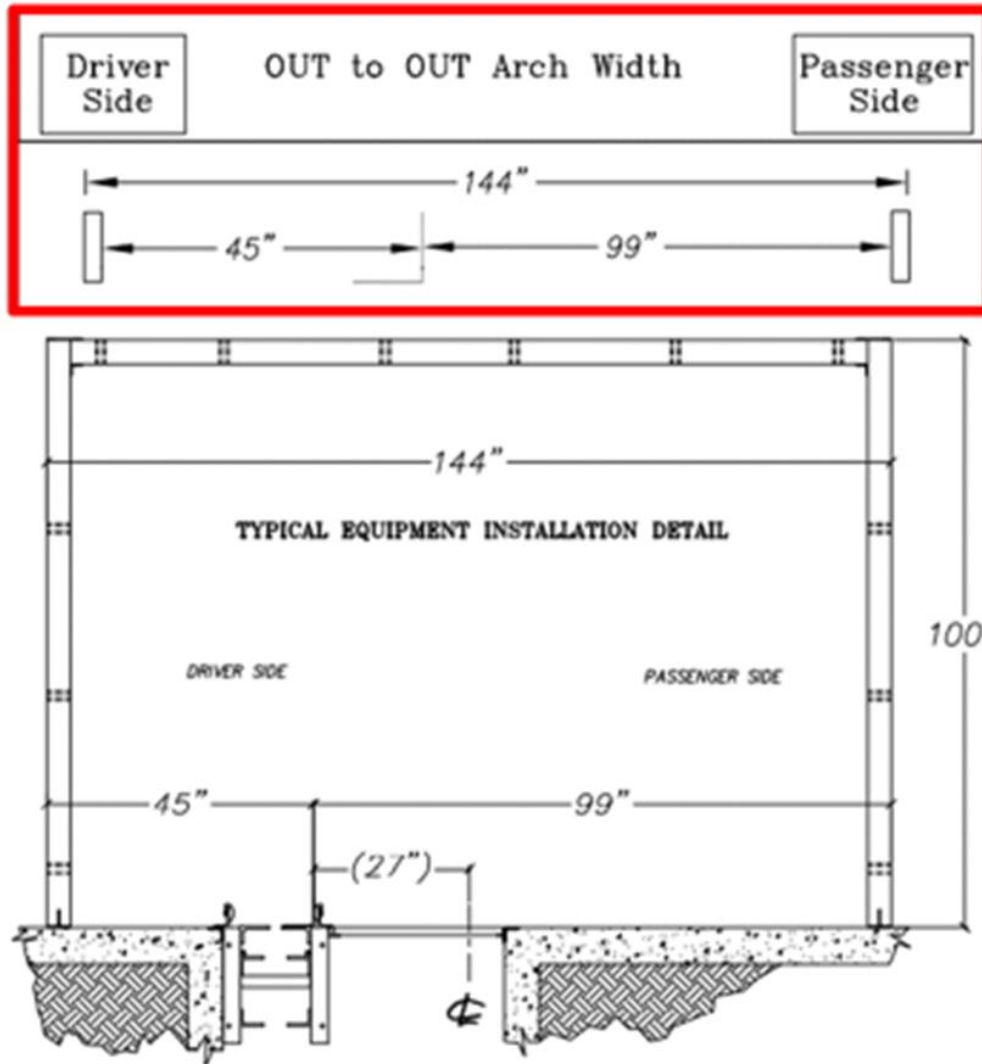
1. Attach **L Bracket** to Conveyor Passenger's Side using a **C Clamp** (not included). Make sure **L Bracket** is against the Banana Peel before clamping it (A).
2. Measure overall width of Equipment Arch from outside of Leg to outside of Leg (B3).
3. Use **Drawing (C)** on the following page which **Represents** the **Equipment Width** being installed.



 **IMPORTANT: Keep C Clamp and L Bracket for next installation.**

4. Measure from the installed **L Bracket** to the outside of the **Arch Leg Driver's Side (B1)**.
5. Position Arch to the measurement on **Drawing (C)** selected (B1).
6. Anchor Leg in location.
7. Measure from the installed **L Bracket** to the outside of **Arch Leg Passenger's Side (B2)**.
8. Position Passenger's Side Leg to the measurement on **Drawing (C)** selected (B2).
9. Anchor Leg in location.
10. When all equipment is installed, remove **C Clamp** and **L Bracket**.

EQUIPMENT INSTALLATION DIMENSIONS



WARNING: If the Equipment Installation Dimensions at the time of installation are NOT measured correctly, it may result in equipment damage and/or failure. Dimensions MUST be verified if equipment is already installed. Contact Sonny's Technical Support Team at 1-800-327-8723, Ext: 234 for any Installation questions.

INSTALLATION INSTRUCTIONS

Tools

1. Safety Glasses
2. ½" Drive Ratchet Set
3. Standard Combo Wrenches
4. 4' Level
5. Electric Impact Wrench
6. 1" Hammer Drill
7. Tape Measure
8. Sledgehammer

Consumables

1. Anti-Seize Compound
2. Marine Grease

Work Force

2 Experience & Trained Technicians

Time (No Setbacks)

2 – 4 Hours

1. Determine where the Top Brush is to be installed (See **Figure #1** in the Dimensions Section and the **Equipment Installation Dimensions** for your location).
2. Sweep any debris from where the Top Brush will stand.
3. Check all hardware and place a small amount of Anti-Seize Compound on each bolt.
4. Place the assembled frame side legs, cross beams, and gussets in the area where the unit will be permanently located (with the brush counterweight toward the entrance of the car wash).
5. With the interconnection hardware provided by SONNY'S (boxed and attached to the assembly frame) join the legs, cross beams, and gussets to the frame "finger tight".
6. Place and anchor the unit per the dimensions shown in **Figure #1**. Be certain that the entrance and exit cross beams are level (shim mounting feet, if necessary) and that each of the 4 vertical legs are plumb.
7. Level and square the frame with the centerline of the equipment (see **Figure #1** in the Dimensions Section and the **Equipment Installation Dimensions** for your location).

INSTALLATION INSTRUCTIONS



IMPORTANT: Ensure the frame is correctly located before installing any lag bolts. Before lagging the frame into position have a second person double check all measurements against the Equipment Installation Dimensions to ensure all measurements were taken correctly.

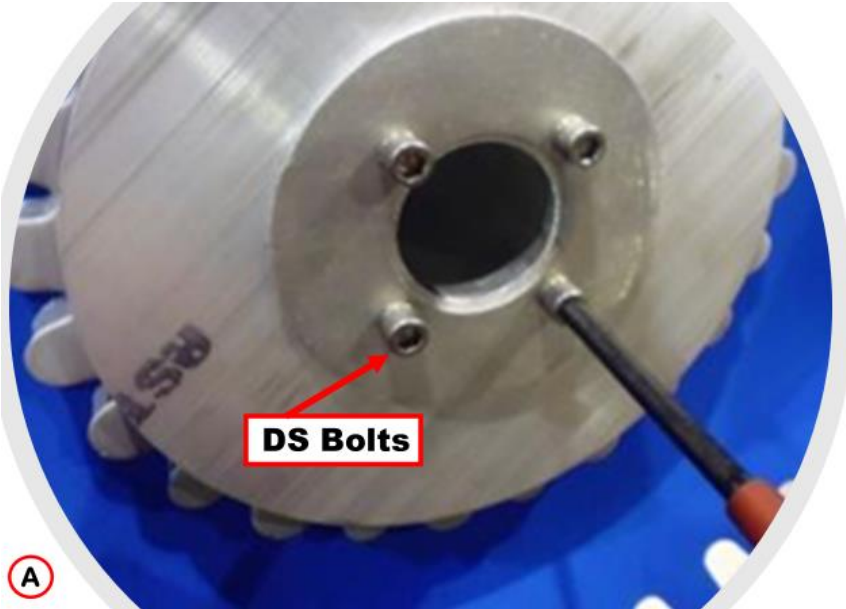
8. Place an anchor bolt in each corner. Tighten all hardware.
9. Check each leg for plum and the frame for level, and then install the rest of the anchor bolts in each leg of the frame.
10. Install brush and counterweight assembly on the frame.
11. Install the air retract cylinder and run the airlines to the manifold for the retract operation.



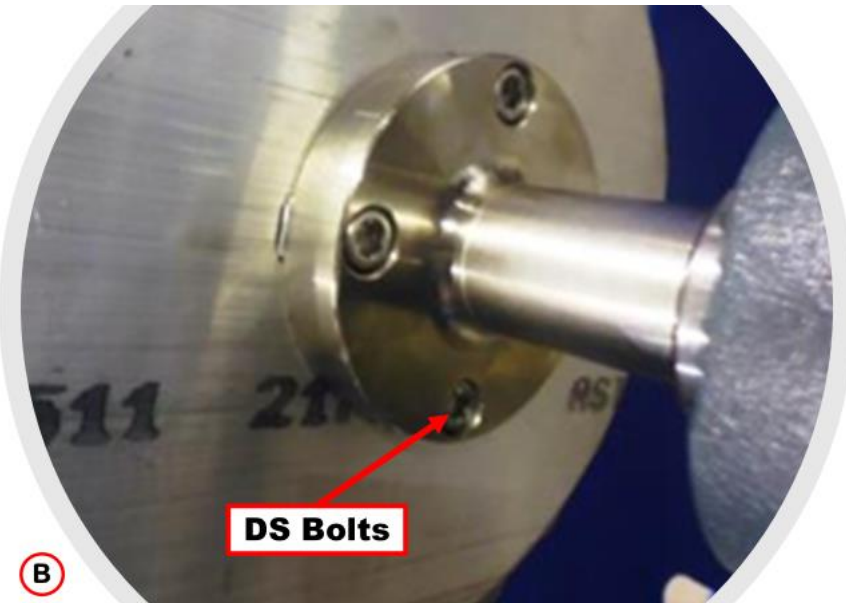
NOTE: Air is used to hold the brush in the retracted position only. No air is used during the wash process.

12. Run and connect the chemical lines from the Chemical Distribution Manifold to the chemical line on the frame for the application nozzles.
13. Run and connect a ½" PRESSURE line from the Hydraulic Power Pack to the ½" male pipe thread fitting on the BLACK high-pressure hose on the frame.
14. Run and connect the ½" RETURN line to the Hydraulic Power Pack to the ½" male pipe thread fitting on the ORANGE/RED high-pressure hose on the frame.
15. Rotation of the brushes is against vehicle travel. As viewed from the driver side the brush turns COUNTERCLOCKWISE.
16. Install the brush onto the frame.

BRUSH HUB INSTALLATION

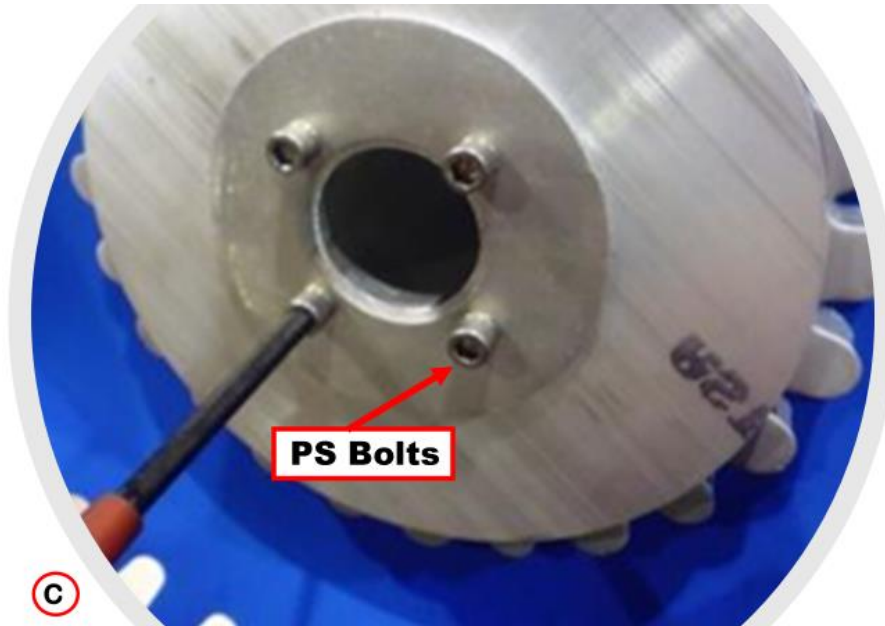


1. Remove and discard the Retainer Plate from one end of Top Brush Assembly. Insert the Bolts through Lock Washers and the DS Spindle.

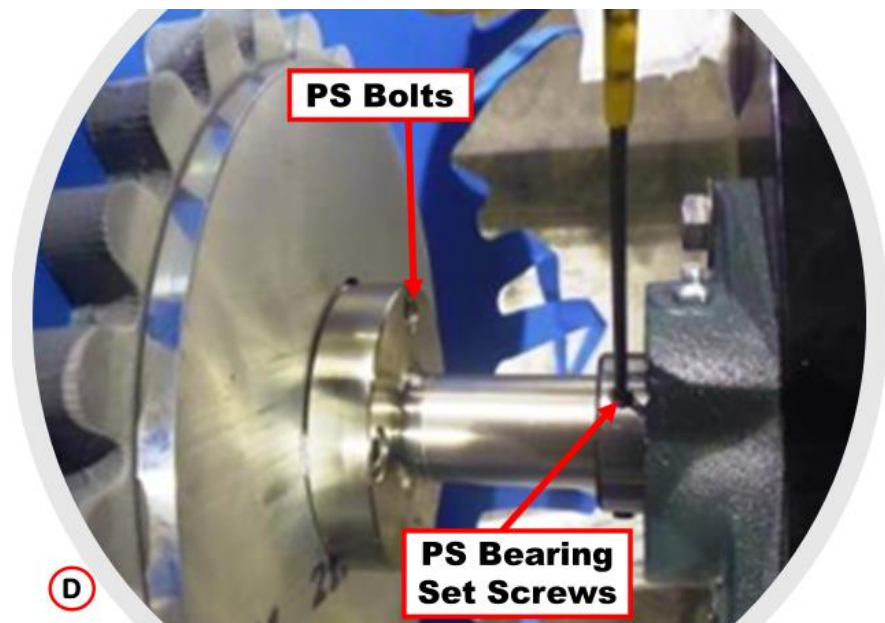


2. Hold the Brush straight, insert the end of the Brush to the DS Top Brush Arm spindle and tighten Bolts into place.

BRUSH HUB INSTALLATION

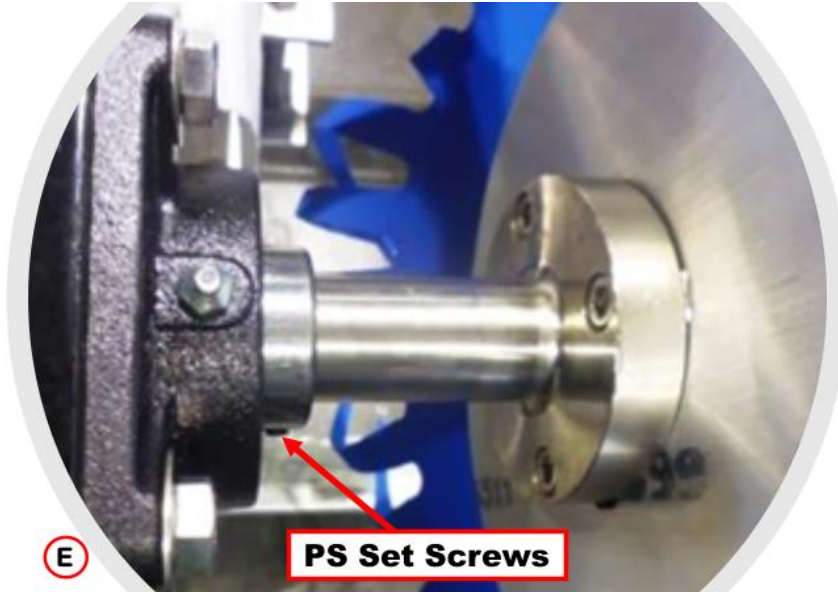


3. Remove and discard the Retainer Plate from the other end of Top Brush Assembly. Insert the Bolts through lock washers and the PS Spindle.

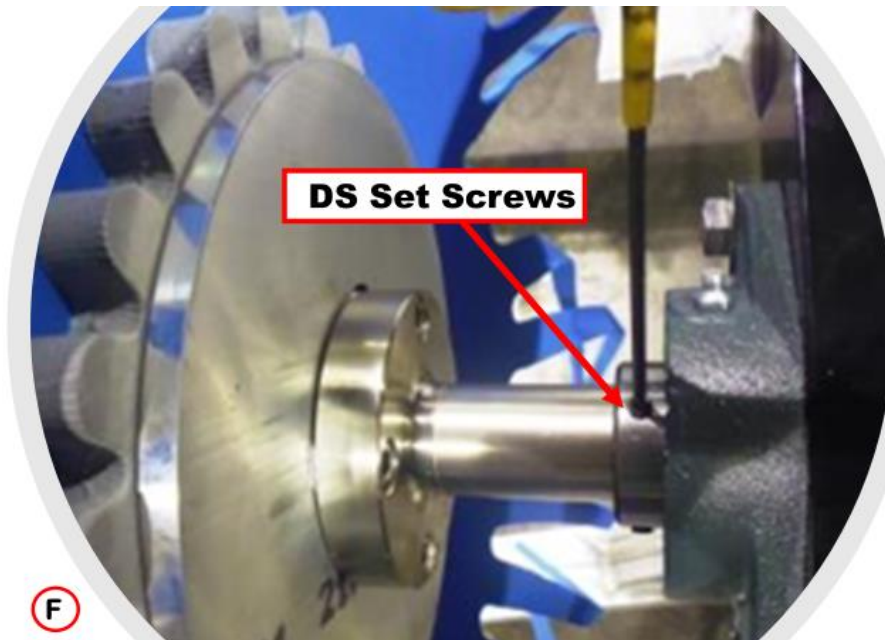


4. Loosen PS Bearing Set Screws to be able to slide the Brush.

BRUSH HUB INSTALLATION

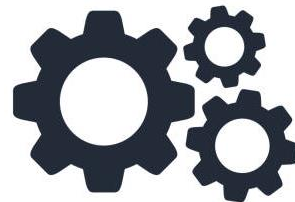
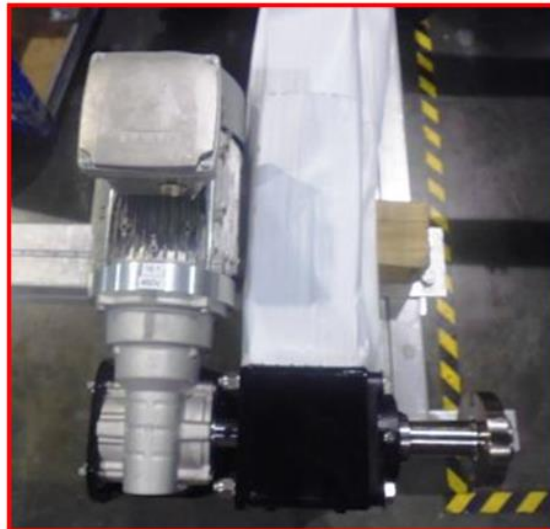
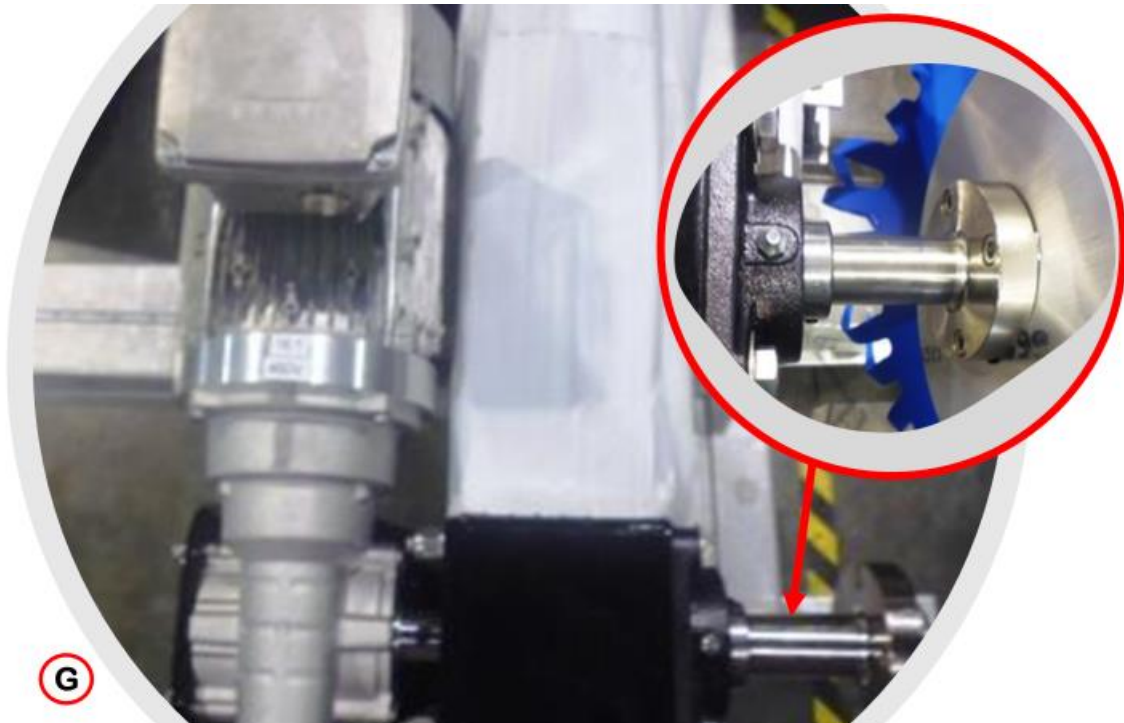


5. Slide the Brush into the PS Spindle and tighten the Set Screws.

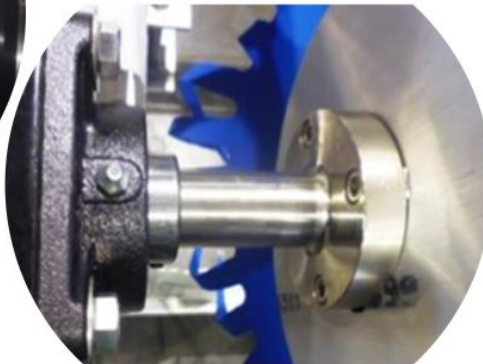


6. Once the Top Brush Assembly is securely tightened to both spindles (DS & PS), tighten the DS Bearing Set Screws. Check the PS Bearing Set Screws to make sure they are also tightened.

ELECTRIC FLENDER MOTOR

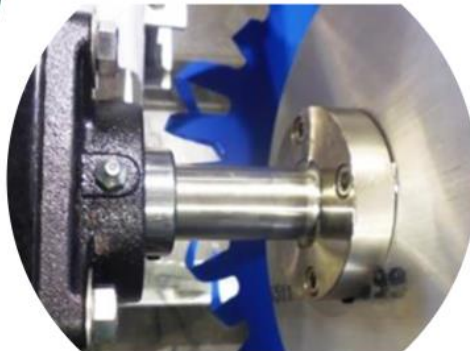
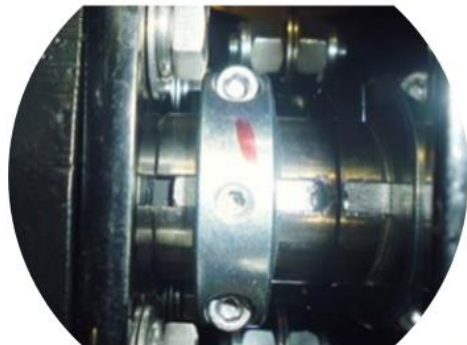
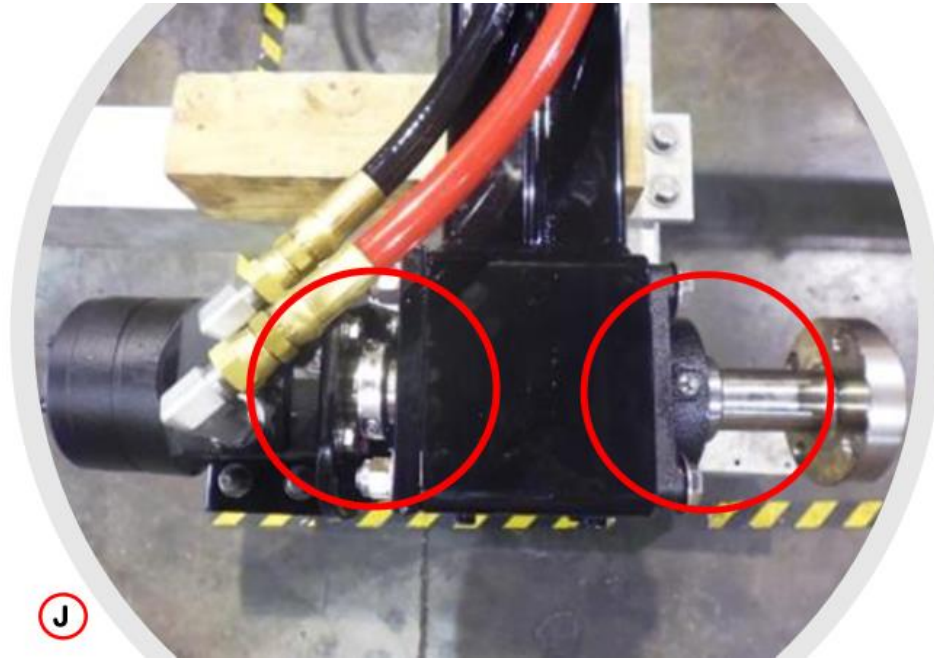


ELECTRIC WINSMITH MOTOR WITH GEARBOX



1. To adjust the Brush to the center of the Top Brush Arms, loosen the DS and PS Shaft Bearing Set Screws, and then loosen the inner Shaft Collar Set Screws.
2. Once the Brush is centered, tighten the inner Shaft Collar Set Screws, and then tighten the DS and PS Shaft Bearing Set Screws.

HYDRAULIC MOTOR



1. To adjust the Brush to the center of the Top Brush Arms, loosen the DS and PS Shaft Bearing Set Screws.
2. Loosen the inner Shaft Key Set Screw, and then loosen the Collar Bolts.
3. Once the Brush is centered, verify, and center the Shaft Key to the middle of the Collar.
4. Tighten the inner Shaft Collar Set Screws, and outside Collar Bolts.
5. Tighten the DS and PS Shaft Bearing Set Screws.

ADJUSTMENTS AND TESTING

Adjust the Cleaning Pressure of the Washer

Ensure the air solenoid is manually put in the wash position so there is no air pressure applied to the retract cylinder. Adjust the position of the counterweight so that when the counterweight is released the brush slowly moves downward. After initial adjustment manually activate and deactivate the air retract. When deactivated the brush should fall smoothly to the down position. Final adjustment of the counterweight can be accomplished while running test vehicles. Once adjusted properly the cloth penetration should be about three to four inches across the entire vehicle. If brush bounces too much the counterweight has been adjusted to far out. Adjustment is easiest if made in small amounts, approximately ¼" to ½" at a time.

Adjust the Rotation Speed of the Brush

The brush speed can be adjusted at the flow control valve on the hydraulic power pack. It should be between 85 and 95 RPM with conveyor speeds of 100 to 150 CPH. If the conveyor speed is reduced to between 60 and 90 CPH the brush speed should also be reduced to approximately 75 to 85 RPM.

Adjust for Smooth Retract Operation

To adjust the retract operation the air pressure regulator should be adjusted for approximately 30 PSI in the retract position. The tunnel controller should be adjusted so that the brush is put into the wash position prior to the front of the car arriving at the brush. This will entail deactivating the retracts before the vehicle reaches the brush and setting the look ahead to check for the proximity of the next car.

Speed and Torque Adjustment (where applicable)

1. Hydraulic

- The speed can be adjusted on the flow control for the power pack.
- To increase the speed, move the handle on the flow control closer to the number 10.
- To decrease the speed, move the handle on the flow control closer to the number 1.
- The torque must be set prior to operation and should be set between 600 and 900 PSI. For information on how to set the torque please refer to the Hydraulic Power Pack Manual.

2. Electric

- The speed can be adjusted on the Variable Frequency Drive (VFD).
- To increase the speed, adjust the Hertz on the VFD to a higher number.
- To decrease the speed, adjust the Hertz on the VFD to a lower number.
- The Overload on the Motor Starter protector(s) must be set at the lowest level to allow for operation. Adjust the amps in accordance with motor(s) name plate.

GENERAL OPERATION

Top Brush Operation

Brush rotation starts and stops with a signal from the Customer supplied Controller system to the Customer's hydraulic power pack which drives the hydraulic motors on the brushes. This Controller Start-Stop signal should also control soap solution delivery to the spray bar on the brush.



IMPORTANT: MAKE SURE THE BRUSHES ROTATE AGAINST VEHICLE TRAVEL.

With the brush rotating (against the direction of vehicle travel and at proper RPM) the vehicle's front hood contacts the brush and brush travels across the vehicle maintaining steady contact while cleaning the hood, roof, and trunk of the vehicle.



IMPORTANT: Proper cloth penetration on flat vehicle surfaces should be 3 to 4 inches. As the brush rounds corners, such as on windshields, the cloth penetration may be greater, but not deeper than half the distance to the aluminum brush core.

Retract Operation

When there is no vehicle approaching the brush the tunnel controller will retract the brush from the wash position, toward the ceiling. This can also be set up in the controller to retract for the beds of trucks to avoid problems.

It is recommended that the Brush be retracted for:

- Sun visors mounted over the windshield
- Any racks mounted on the roof
- Rear wipers on Acura Integra's and Mazda RX-7's unless they are taped down
- Open bed pickup trucks

PARTS LIST

Hydraulic Motor for Top Brush

- Torqmotor TE Series
- SAE O-Ring ports



10008079



10001775



10006558

Item #	Description
10008079	Parker Hyd Motor TE0195FS100AAAC MF1209
10001775	Elbow, 45deg 1/2 M JIC X 5/8 M O-Ring
10006558	Woodruff Key Half Moon 1 1/8in HS14118
10003765	37C125HCS5Z Hex Bolt 3/8-16 x 1 1/4 Zc
10001487	37NLOC0Z Washer 3/8in Split Lock Std Zc

Hydraulic Shaft & Split Collar



20010311



10003530

Item #	Description
20010311	Shaft, Top Brush 1 1/2in x 93.5in
10003530	Collar, 2pc Clamp 1 3/8in w/Set Screw Zc

Torque Channel



Item #	Description
20007255	Torque Channel w/Plastic Knobs

Top Brush Cloth Hub & Spider Assembly



20010441



20002067


INNER
Threaded Insert

Item #	Description
20010441	Hub, 68in x 6in for Top Brush 28 Slots
20002067	Spider, Kit 6in x 3in Wide Top Brush



4-Bolt Bearing for Top Brush



10005077



10008267

10002957

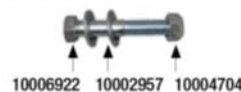
10004704

Item #	Description	Need	"E"
10005077	Bearing, 4Bolt Flange 1 1/2in AMI	2	4 1/8in
10008267	50C825HCSS Hex Bolt 1/2-13 x 8 1/4 SS	4	-
10002957	50NWUSS Washer 1/2in Flat USS Zc	8	-
10004704	50CNNS Hex Nut Nylon 1/2-13 SS	4	-

2-Bolt Bearing for Top Brush



10005005



10006922

10002957

10004704

Item #	Description	Need	"E"
10005005	Bearing, 2 Bolt Flange 1 1/2in AMI	2	5 21/32in
10006922	50C350HCSS Hex Bolt 1/2-13 x 3 1/2 SS	2	-
10002957	50NWUSS Washer 1/2in Flat USS Zc	4	-
10004704	50CNNS Hex Nut Nylon 1/2-13 SS	2	-

Nozzle Components



10002241



10003533

Item #	Description
10002241	Hypor 402275N Check Val 8lb 1/4 MPTxQuic
10003533	Nozzle, Air Foaming Size 04 110deg

6in Hub Disk & Split Collar



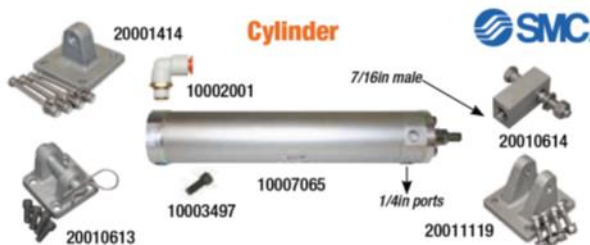
20001174



10003173

Item #	Description	Need
20001174	Cloth Stop, UHMW Top Brush	2
10003173	Collar, 1pc Split 1 1/2in Zinc Plated	2

PARTS LIST



Item #	Description
10007065	Cylinder, A11210-2 2in Bore x 10in Stk
20001414	Rear Eye Mount, 1/2in Top Brush w/Bolts
20010613	Rear Clevis, 1/2in x 2in w/Hardware
10002001	Elbow, Swivel 3/8in Tube x 1/4in MPT
20010614	Rod Eye, 3/8in x 2 1/2in Bolt & Nut
10003497	Screw, Soc Cap 1/4-28 x 5/8 Stl
20011119	Rear Clevis Mount Cast 3/8" x 2 1/4" Kit

Pivot Shaft, Collar, Plastic Bearing & Plate



Item #	Description
20004605	Shaft, Top Brush Pivot SS 1 1/2in x 8in (Driver Side)
20002021	Shaft, Top Brush Pivot SS 1 1/2in x 10in (Passenger Side)
10003420	Collar, 2pc Clamp 1 1/2in Zinc Plated
20001948	UHMW, Bearing 1.5in Bore x 8in Top Brush
20001561	Cover Plate, Top Brush 8in x 3in SS

Counter Balance Adjuster & Weight Bar



Item #	Description	Price
20002742	Adjuster, Counter Balance Weldment	\$247.52
20004593	Weight, Counter Balance 1/2in x 5in x 77	63.98

Rubber Bumper Stops



Item #	Description	Price
10010220	Rubber Bumper Heavy Duty Top Brush	\$11.64
10003431	SF77RS Rubber Stop 3inDia x 2.25in Lgth	26.25

Winsmith Gearbox & Sterling Motor for Electric Top Brush



Item #	Description	Use with
10008538	Gearbox, Winsmith 20:1 Ratio	Neoglide
10008539	Gearbox, Winsmith 25:1 Ratio	Cloth
10008069	Sterling Motor 1.5HP 1800RPM 56C 230/460	-
10009566	Gearbox, Gasket C-Face 920 Series	-

E5 Couplers for Electric Top Brush



Item #	Description	NEED
10007136	E5 Coupler, Element Only	1
10006866	E5 Coupler, Half 1 3/8in Bore Hub	2
10002706	Vibration Isolator	4


Brush & Winsmith Gearbox Shafts for Electric Top Brush



Item #	Description
20004598	Shaft, Top Brush Elect Winsmith 94.5in L
20004603	Shaft, Top Brush Elect Winsmith 8in L
20005029	Top Brush, Winsmith Adapter Shaft

MAINTENANCE

 **IMPORTANT:** FOR THE FIRST MONTH OF OPERATION CHECK ALL HARDWARE AND FITTINGS FOR TIGHTNESS EACH WEEK!

 **WARNING:** Make sure the proper Chemistry (Brush Lubrication) is being used in the Car Wash Tunnel to prevent vehicle and equipment damage.

DAILY

- Check all hydraulic, air and chemical lines and fittings for leaks. Repair, or replace, as needed.
- Check brush for proper operation, listening for any unusual noises from the equipment.
- Inspect brush cloth for cuts, grease, or oil. Remove and repair, or replace, any cloth panel if any of these conditions are found.
- Check retract and extend for proper operation, smoothness, and correct application pressure.
- Check for proper chemical solution delivery.

WEEKLY

- Spray lubricant on the clevis pins on both ends of the retract cylinders.
- Grease the brush shaft bearings. Do not allow grease to come in contact with brush cloth.
- Drain water from FRL and check lubricant level in FRL.

MONTHLY

- Inspecting all hardware and fittings for tightness.
- Grease the UHMW pivot bearings. Do not allow grease to come in contact with brush cloth.
- Inspect the bumper stops for wear to ensure the air cylinders have not reached the end of their travel. If bumper stops are worn they can be flipped to extend life.
- Inspect soap solution spray nozzles for wear. Replace, as necessary.
- Thoroughly clean the equipment and framework.

SEMI-ANNUALLY

- Carefully inspect brush equipment cloth for wear and damage. Replace, as necessary.
- If fluid in reservoirs is contaminated drain, purge, and refill.

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Comprehensive training to plan, manage, maintain, and grow your business!



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- State-of-the-art equipment labs and collaborative learning environments located in Tamarac, FL and Phoenix, AZ. Gain hands-on experience that is transferable to your wash.



Real Certifications

- Real training with real testing and certification ensures your staff will gain the necessary skills to make a positive impact that drives savings.



Real CarWash Experts

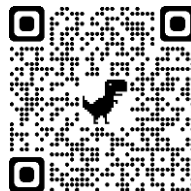
- Our Instructors have washed over 100 million cars and combined have owned, operated, or managed over 200 car wash locations.



Comprehensive Training Materials

- Participants leave with complete documentation of every procedure, technique, and skill they learn—a lifetime worth of car washing experience.

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Need more help?



For questions regarding **installation, operational issues, settings, or servicing of this equipment** please contact **Sonny's Tech Support at extension 234** or email at Sonnys-Support@SonnysDirect.com.

To order **replacement parts**, contact **Customer Service at ext. 200**, email us at CustomerService@SonnysDirect.com or visit us on the web at www.SonnysDirect.com.

Toll Free Main Line**Fax Number****Local Number****Customer Service****Parts****Equipment Sales****Technical Support****800-327-8723** Office: Monday – Friday 8:00 AM – 5:30 PM ET

800-495-4049

954-720-4100

Option 3 Customer Service: Monday – Friday 8 AM – 8 PM ET

Option 3

Option 4

Option 5**SONNY'S ENTERPRISES INC.**

5605 Hiatus Road

TAMARAC, FLORIDA 33321

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WARRANTY



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SONNY'S ENTERPRISES LLC FACTORY LIMITED LIFETIME WARRANTY

Equipment manufactured by SONNY'S ENTERPRISES LLC 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.

YOUR BUSINESS IS IMPORTANT TO US



After

YOU'RE OPERATING

Go-Direct Assurance

After You're Opened

Go-Direct with Sonny's and get expert advice with the largest supplier of conveyORIZED equipment, parts, and supplies in the U.S. standing behind you 24 hours a day, 7 days a week.

We have experienced operators available 24/7!

Sonny's posts the cell phone numbers of experienced operators at our company, on-line. They are on-call 24/7 to help guide you through any emergency that happens at your car wash.

We have a 24/7 Emergency Replacement Parts Program!

Sonny's inventories consist of over 12,000 car wash products including nearly every replaceable item for our equipment, ready for same day shipment.

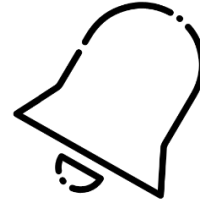
We have an equipment swap program!



If a vital Sonny's manufactured component at your wash fails, or you believe it may fail, we will ship you a replacement. Simply put yours in the crate you receive and send it back for diagnostics and repair. If it is still under warranty the repair is **FREE**.

SonnysDirect.com

Thank you for your business, we are here for you!

ONLINE PRODUCT MANUALS & TECH BULLETINS



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Backroom Support Equipment	Central Vacuums
Central Vacuum Systems and Components	Friction Washing Components
Chemical Applicators and Components	Pre-Wash
Controls	Control Release Notes
Conveyors and Components	
Drying Components	
Electronic Components	
Friction Wash	
High Pressure Systems	
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- ☒ **Car Wash Marketing:** Ideas to capture, upsell and retain your unfair share of customers both onsite and online. Marketing and signage tips to increase membership and average tickets, decrease churn and improve loyalty.
- ☒ **Car Wash Chemistry:** Information to help you deliver a clean, dry, and shiny car every time at a cost that makes sense.
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- ☒ **Do's & Don'ts:** Tips and Tweaks to keep your Sonny's Equipment at peak performance.
- ☒ **Water Treatment:** Tactics to optimize every drop of water to reduce utility costs and elevate the cleaning process.

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CarWash Controls

CarWash College

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Consulting

Expert guidance to help you go from breaking ground to ground-breaking performance.



College

Comprehensive hands-on training to plan, manage, maintain and grow your business.



Equipment

Trusted leadership from the world's largest manufacturer of conveyorized car wash equipment.



Services

Local installation, service and support to build and operate your business.



Vacuums

The industry's best-selling central vacuum with professional grade durability to maximize uptime.



Controls

Complete business management technology to deliver efficiency and profitability across your locations.



Marketing

Marketing consultation, design and campaign management to attract, upsell and retain customers onsite and online.



Signage

Custom branded signage and lighting to create a value proposition and on-site experience that dominates.



Chemistry

The most convenient and accurate way to deliver a clean, dry and shiny car.



Backroom

Integrated backroom systems designed to consistently achieve superior performance.



Water

Revolutionary treatment to elevate water quality and reduce waste.



Parts

12,000 parts in stock for immediate delivery to support your business with inventory for every OEM.

Learn More at:
www.SonnysDirect.com/onewash

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Car Wash Buildings' complete package is designed to provide you with a world-class express exterior car wash structure that dazzles your customers and eclipses your competition without the high cost and lead times associated with traditional building construction.

Unique Light Wall

Forget the signs that drivers are mentally trained to ignore, now you can turn your entire building into a 24/7 marketing tool that draws in passing traffic. The light wall is visible through the glass walls and can be programmed for different color schemes to match your branding, or even seasonal advertising. Imagine turning your car wash green and red for Christmas, or red, white and blue for the 4th of July – even pink in October for breast cancer awareness month!

Your entire order should be available within **8-12 weeks** after you give us authorization to begin production.



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