

Go Direct

SONNY'S[®]

THE CAR WASH FACTORY

SonnysDirect.com/go-direct/

Wrap Around Washer



Owners Manual

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

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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 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

- Aluminum frame and legs. Also available in stainless steel.
- Double Roller Bearings.
- 6" Hubs.
- New 45 Degree flex coupling standard on Big Man.
- Stainless steel brush hangers.
- Hydraulic brush drive motors use 4GPM @ 800PSI.
- Shock absorber control.
- Pneumatic retract controls standard.
- Vehicle contour brush tracking.
- 134 inches of tunnel length required. (Straight Frame)
- 152 inches of tunnel length required. (Jog Frame)
- 158 inches of tunnel width required.
- 117 inches of unobstructed tunnel height required.
- 1/2 inch city water connection.

Optional Related Equipment

Description	Hydraulic Free-Standing Wrap-Around Washers		Electric Free-Standing Wrap-Around Washers		Hydraulic Foundation Frame™ Attachments: Mount to a Mitter or Top Brush		Electric Foundation Frame™ Attachments: Mount to a Mitter or Top Brush	
	Item #	Price	Item #	Price	Item #	Price	Item #	Price
Straight Wrap-Around	SF68	\$14325.00	SF68E	\$15965.00	SF68A	\$13180.00	SF68EA	\$15450.00
Straight Wrap-Around - Reversed	SF68R	14325.00	SF68RE	15965.00	SF68RA	13180.00	SF68REA	15450.00
Big Man Wrap-Around	SF07BMWRAP	18215.00	SF07BMWRAPE	19805.00	SF07BMWRAPA	17645.00	SF07BMWRAPEA	19290.00
Big Man Wrap-Around - Reversed	SF07BMWRAPREV	18215.00	SF07BMWRAPREVE	19805.00	SF07BMWRAPREVA	17645.00	SF07BMWRAPREVEA	19290.00

Specifications

	Straight Wrap		Big Man Wrap	
	Inch	Metric	Inch	Metric
Tunnel Length	117in	2.972m	135in	3.429m
Width	144in	3.658m	144in	3.658m
Unit Height	117in	2.972m	125in	3.175m
Hub Diameter	6in	152mm	6in	152mm
Water Inlet	1/2in	13mm	1/2in	13mm
Cloth-Bottom	Full Density 2-Ply		Full Density 2-Ply	
Cloth-Top	1/2 Density Staggered 1-Ply		1/2 Density Staggered 1-Ply	
Hydraulic	8GPM		8GPM	
Optional Electric	1HP per side		1HP per side	

Related Support Equipment

Item #	Description	Price
HY75752F	Power Pack, 7.5HP 10.5GPM 2 Flow	\$1950.00

Quick Replacement Reference

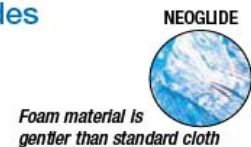


Item #	Description	Price
SF775SHOCK-DS	Shock, Lite Touch Wrap DS Red	\$33.99
SF775SHOCK-PS	Shock, Lite Touch Wrap PS White	46.75
80524	Shock, Wrap Stabilizer	48.95
A350	Cylinder, 1 1/2in Bore x 8in Stroke	110.00
SF7768PCF	Pin & Cotter, DS/PS Shock Mount	22.70
BPB200DBLRLR	Bearing, Pillow Block 2in Double Roller	194.60
BF4150	Bearing, 4-Bolt Flange 1 1/2in	26.30
MF120910AAAC	Motor, Hydraulic TRW Ross Parker	250.43
T1085SW	Torque Channel w/Plastic Knobs SF-Series	31.00
SSFWRAP	Shaft, 72in Replacement for Wrap & Van	122.00
SF685BA	Stabilizer Shock Bracket for Wrap Arm	49.99

Recommended Upgrades

NeoGlide Upgrades

- Replaces Included PermaColor with NEOGLIDE on new orders



Item #	Description	Price
NGSF68UG	Neoglide, C Channel SF68 Upgrade	\$825.00
NGSF68HDUG	Neoglide, SF68, High Density Upgrade	1461.00
NGSF07BMUG	Neoglide, SF07BM Complete Set Upgrade	1200.00

SF68 Retrofit Kit

- Includes everything to upgrade your existing SF77 Wraps to gain the improved safety and cleaning performance of our newer SF68 wraps, except cloth
- Includes hubs, flex head coupler, all shaft bearings, and housings — wash material sold separately.



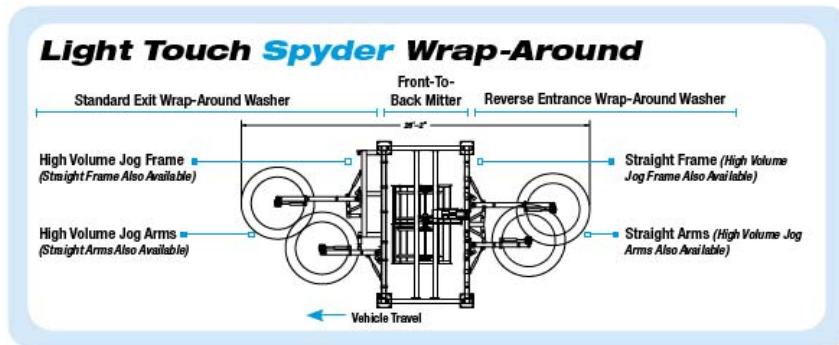
Item #	Description	Price
SF68-6KIT-DS	SF68 Conversion Kit Drivers Side	\$1370.00
SF68-6KIT-PS	SF68 Conversion Kit Passenger Side	1370.00
CLSF68CS	Cloth, SF68 Wrap Complete Set	1225.76
NGSF68CS	Neoglide, Sonnys SF68 Complete Set	1574.40

SF07BM "BIG MAN" Retrofit Kit

- Includes everything to upgrade your SF04 Double Jog Wrap to gain the improved safety and cleaning performance of our newer SF07BM wraps, except cloth
- Includes (2) 72in Hubs and (2) 13in extensions



Item #	Description	Price
SF07BMWRAPCONVKIT	Conversion Kit, SF04DJ To SF07BM	\$645.00
CLSF07BMCS	Cloth, Complete Set SF07BM Wrap	1580.32
NGSF07BMCS	Neoglide, SF07BM Big Man Wrap Complete	2400.00



Popular Foundation Frame™ SPYDER Combinations



Item #	Description	Price
SF68	Straight Wrap, 68In, Straight Frame	\$14325.00
SF68R	Straight Wrap, Reversed, 68In, Straight Frame	14325.00
Total SPYDER Price:		28,650.00

Dimensions	Inch	Metric
Tunnel Length	231in	5.867m
Width	144in	3.658m
Unit Height	142in	3.635m
Vehicle Clearance	93in	2.380m



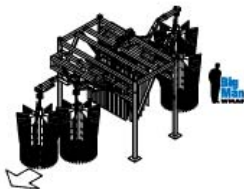
Item #	Description	Price
SFM901SPYDER	SFM901 Mitter with Spyder Foundation Frame	\$9700.00
SF68A	Straight Wrap, 68In, Attachment	13180.00
SF68RA	Straight Wrap, Reversed, 68In, Attachment	13180.00
Total SPYDER Price:		36,060.00

Dimensions	Inch	Metric
Tunnel Length	300in	7.680m
Width	144in	3.658m
Unit Height	142in	3.635m
Vehicle Clearance	93in	2.380m



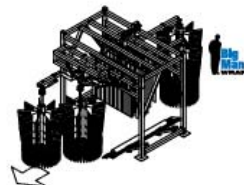
Item #	Description	Price
SFM901SPYDER	SFM901 Mitter with Spyder Foundation Frame	\$9700.00
SF68A	Straight Wrap, 68In, Attachment	13180.00
SF68RA	Straight Wrap, Reversed, 68In, Attachment	13180.00
SFB21A	Side Washer, 21In, Attachment	3555.00
Total SPYDER Price:		39,615.00

Dimensions	Inch	Metric
Tunnel Length	300in	7.680m
Width	144in	3.658m
Unit Height	142in	3.635m
Vehicle Clearance	93in	2.380m



Item #	Description	Price
SFM901SPYDER	SFM901 Mitter with Spyder Foundation Frame	\$9700.00
SF07BMWRAPA	Big Man Wrap, 72In, Attachment	17645.00
SF07BMWRAPREVA	Big Man Wrap, Reversed, 72In, Attachment	17645.00
Total SPYDER Price:		44,990.00

Dimensions	Inch	Metric
Tunnel Length	352in	8.941m
Width	144in	3.658m
Unit Height	142in	3.635m
Vehicle Clearance	93in	2.380m



Item #	Description	Price
SFM901SPYDERTBG	SFM901 Mitter with Spyder Tire Brush Frame	\$10320.00
SF07BMWRAPA	Big Man Wrap, 72In, Attachment	17645.00
SF68RA	Straight Wrap, Reversed, 68In, Attachment	13180.00
TBG200A	Tire Brush, 96In, Attachment	4015.00
Total SPYDER Price:		45,160.00

Dimensions	Inch	Metric
Tunnel Length	334in	8.484m
Width	144in	3.658m
Unit Height	142in	3.635m
Vehicle Clearance	93in	2.380m

SAFETY REQUIREMENTS

1. Only those employees specifically instructed by the location manager will be permitted to enter the wash tunnel to perform inspections or maintenance.
2. Do not enter the wash tunnel when the equipment is operating.
3. Always exercise caution when walking through the wash area, may be slippery conditions.
4. Be cautious when walking through the tunnel to avoid running into or tripping over equipment.
5. Do not ever run through the wash area.
6. Do not perform any work on equipment unless you performed Lock-Out Safety Precautions.
7. When maintenance requires that a piece of equipment be in operation, one qualified maintenance person must stay at the power disconnect switch while that equipment is operating.
8. 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 can only be restarted by the person who performed the "lock out" operation.
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. Any "Stop" switch activated must be reset only by the person who initiated the operation.
11. Electrical connections and repairs are to be performed by a Licensed Electrician only.
12. Store all cleaning and washing solutions and oils in a well ventilated area.
13. Clean up fluid spills immediately to prevent hazardous safety conditions.
14. Be certain to follow all safety procedures on MSDS Sheets for each chemical product used.
15. All new employees must be thoroughly trained in safe operating and maintenance practices.
16. All employees must attend periodically scheduled safety procedure sessions.
17. Do not operate any piece of equipment that requires safety covers with those covers removed or improperly installed.
18. Do not allow any part of your body or other object to come in contact with moving machinery.
19. Do not wear loose fitting clothing or jewelry around moving machinery.
20. At least two qualified maintenance people must be present when performing equipment repairs or preventative maintenance.
21. When working on any equipment that is higher than a person's shoulders always use a fiberglass ladder that is in good condition.

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) to the solenoid valve on the chemical distribution system for the Wrap.

Electrical

- The Customer's Electrician is to provide and install single phase power from the Customer's remote push-button station through the tunnel equipment controller to the supplied air solenoid valve for retract of both wraparound brushes upon selective signal (see Figure #5 in Dimensions Section).

Compressed Air

- The Customer's Plumber is to provide and install a 3/8 inch compressed air line (1.5CFM @ 100PSI) from the Air Compressor to the supplied Air Distribution Manifold for Retract functions.
- The Customer's Plumber is to provide and install a 3/8 inch compressed air line (1.5CFM @ 100PSI) from the Air Compressor to the supplied Air-Driven Pump Station for Foamer Chemical Application functions.

Dimensions

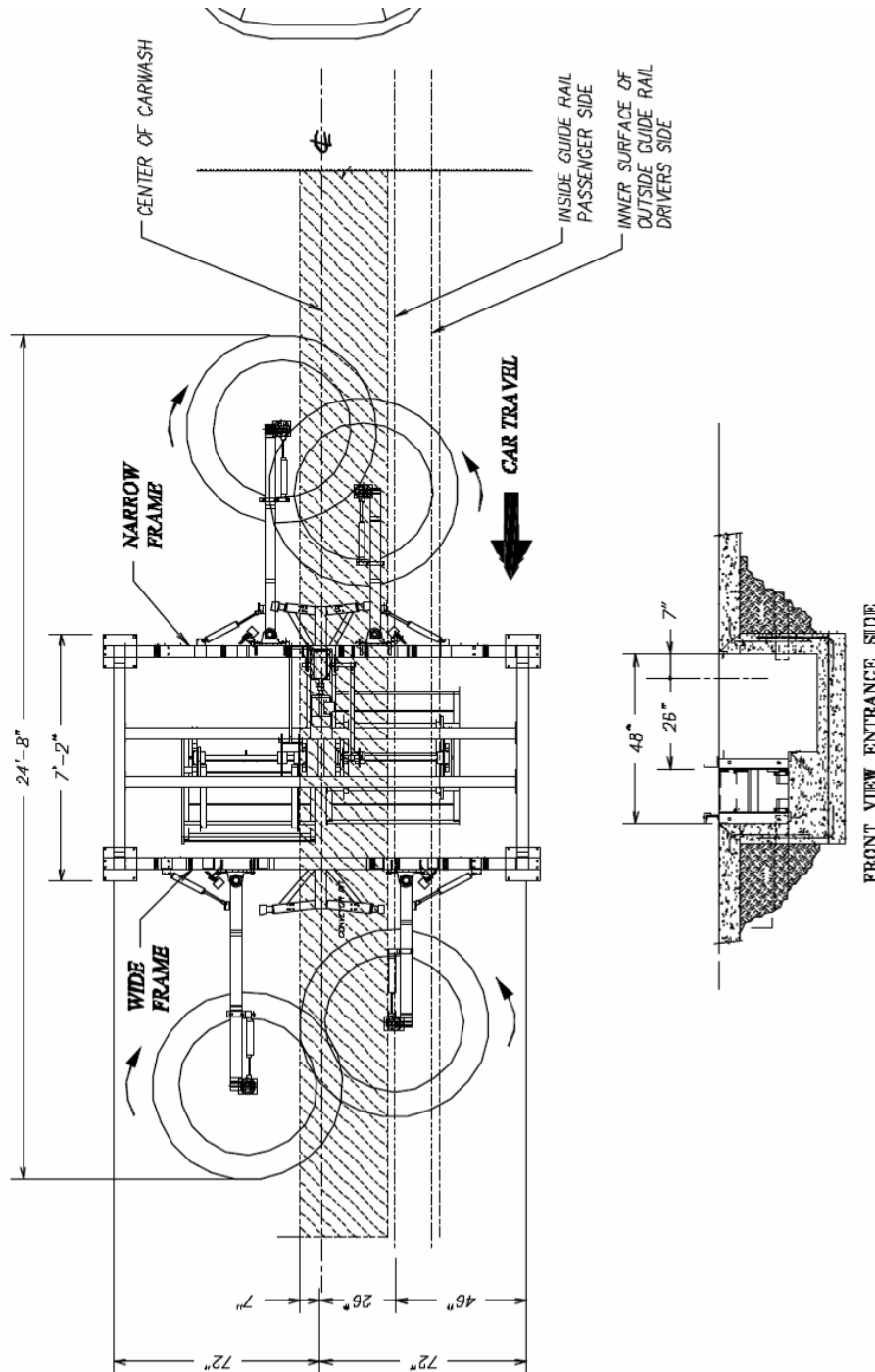


Figure # 1

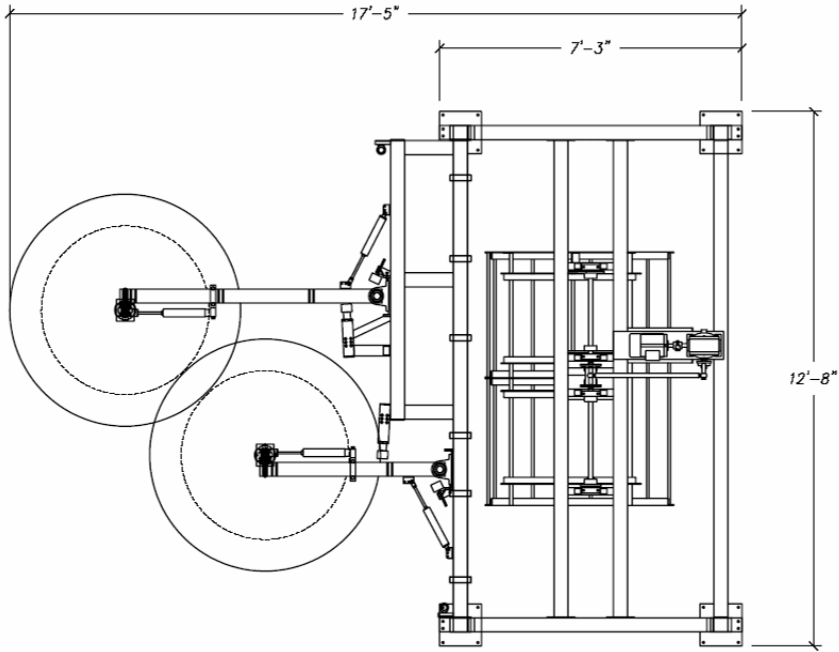


Figure # 2

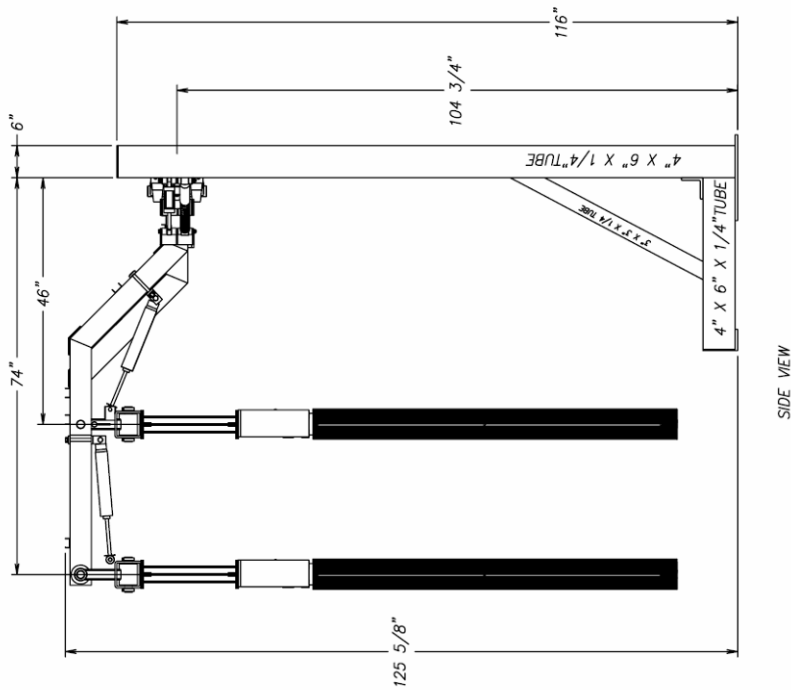


Figure # 3

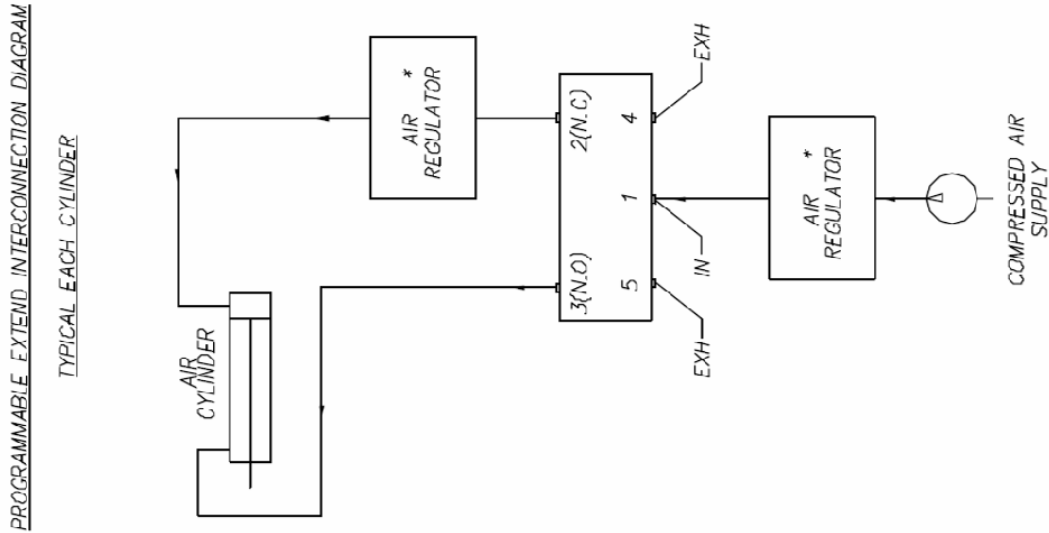


Figure # 4

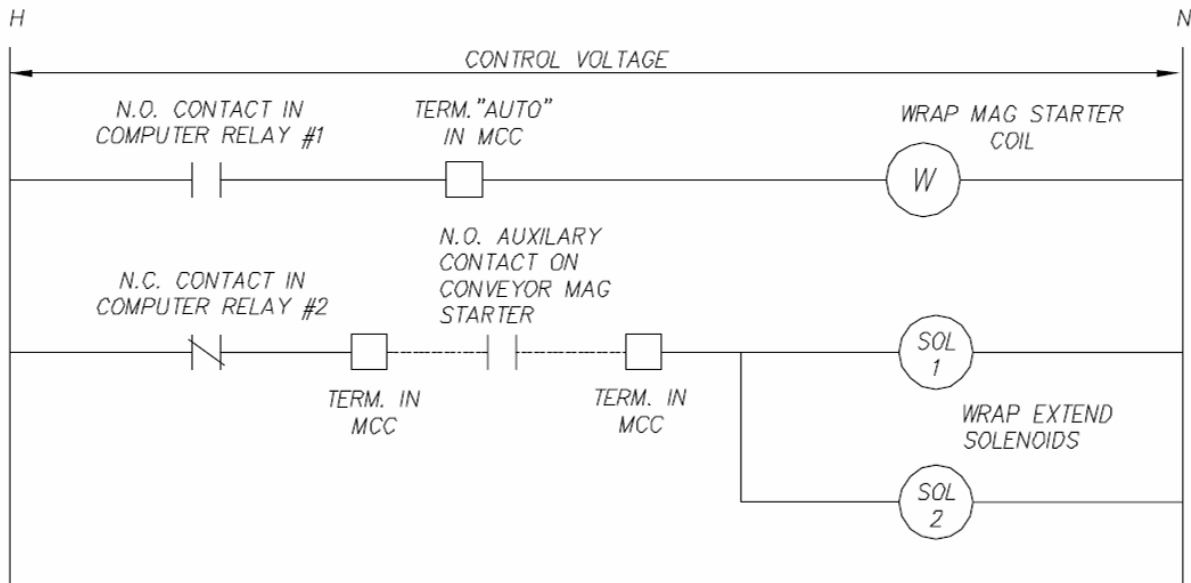
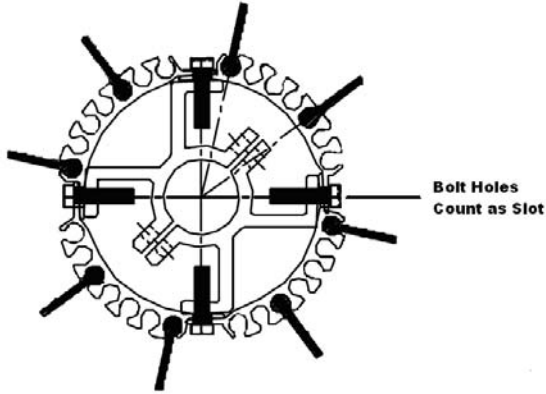
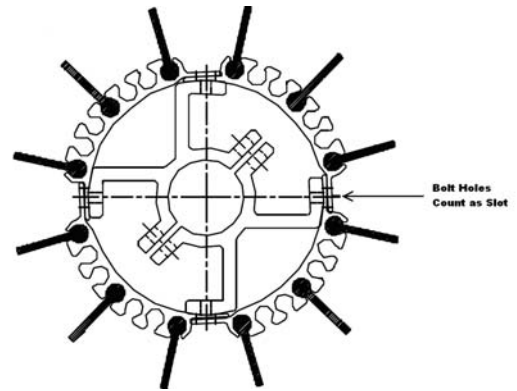


Figure # 5

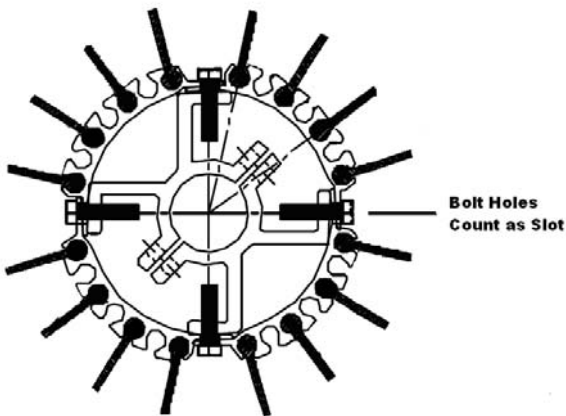
Standard Insert Patterns for a 28 Slot Hub



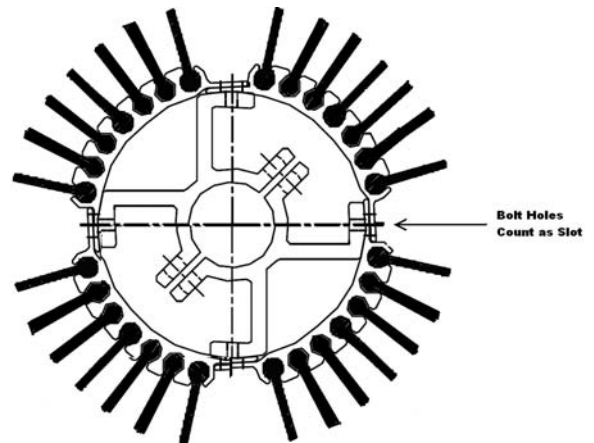
8 Position Material



12 Position Material



16 Position Material



28 Position Material

Figure # 6

Equipment Installation

Wrap Around Washers Installation (Single Frame)

Tools

1. Safety Glasses
2. 1/2" Drive Ratchet Set
3. Standard Combo Wrenches
4. Electric Impact Wrench
5. Permanent Marker
6. Tape Measure
7. 4' Level
8. C Clamps
9. Pry Bar
10. 1" Hammer Drill
11. Sledge Hammer

Consumables

1. Anti-Seize Compound
2. Marine Grease

Manpower

Three (3) men

Time (assuming no problems)

1.50 - 3.00 hours

Installation Steps

1. Determine where the frame for the wrap is to be installed. Ensure the bottom gussets and feet of the frame face the same direction the brush hanger arms will face, normally the exit of the tunnel (see Figures #1 through #3 in the Dimensions Section and the tunnel layout drawings for your location).
2. Sweep any debris from where the frame will stand.
3. Check all hardware and place a small amount of Anti-Seize Compound on each bolt.
4. Place the Sonny's lift-a-ma-jig onto the frame of the Wrap and bolt into place. Bring the forklift into the lift-a-ma-jig.
5. Bring the frame into the building as close to its final position as is practical. Lift the frame into place.
6. Check that the Passenger Side Brush hanger arm is longer than the Driver Side, if not the frame is not positioned correctly.
7. Level and square the frame with the centerline of the equipment. (see Figure #1 in the Dimensions Section and the tunnel layout drawings for your location).

Note: Before lagging the frame into position have a second person double check all measurements against your tunnel equipment layout drawings to ensure all measurements were performed correctly.

8. Place an Anchor Bolt in each corner. Tighten all hardware.
9. Check that the shock absorbers on each Brush Hanger do not "bottom out" in their fully extended position. If this occurs move the shock mounting position to a different hole on the mounting bracket to prevent a fully extended condition.
10. Move each brush hanger from the center of the wash tunnel so that it is parallel to vehicle travel. With each brush hanger in this position check that the hanger is level. Up or down adjustment of the brush hanger can be achieved by placing shim material under the brush hanger pillow block bearings.
11. Double check that the bottom pillow block bearing for each brush hanger is EXACTLY below the top pillow block bearing. This is necessary to provide light brush pressure against the side of the vehicle.
12. Mount the Brush Head, Shaft and Core assembly to each Hanger Arm. Connect the pre-plumbed hydraulic lines.

Note: The SONNY'S supplied BLACK high pressure hose on the wraparound unit is for the hydraulic PRESSURE connection...The SONNY'S supplied ORANGE or RED high pressure hose on the wraparound unit is for the hydraulic RETURN connection.

13. Run and connect the 1/2 inch PRESSURE line from the Hydraulic Power Pack to the 1/2 inch male pipe thread fitting on the BLACK high pressure hose on the leg of the Wrap Around Washer.
14. Run and connect the 1/2 inch RETURN line to the Hydraulic Power Pack to the 1/2 inch male pipe thread fitting on the ORANGE or RED high pressure hose on the leg of the Wrap Around Washer.
15. Run and connect the chemical lines from the Chemical Distribution Manifold to the chemical line on the Wrap frame for the application nozzles.
16. Rotation of the Brushes is with vehicle travel. As viewed from the top of each Brush the DRIVER side turns COUNTERCLOCKWISE and the PASSENGER side turns CLOCKWISE. Rotation speed of each Brush should be according to the Operating Speeds Chart in the Adjustments and Testing Section.
17. Run and connect the air lines from the Air Distribution Manifold to the air cylinder for each retract.
18. Install cloth on the Brush Cores according to the type of material being used. (See Figure #6 thru #9 in the Dimensions Section)

Wrap Around Washers Installation (Spyder Frame)

Installation Tools

1. Safety Glasses
2. 1/2" Drive Ratchet Set
3. Standard Combo Wrenches
4. Electric Impact Wrench
5. Permanent Marker
6. Tape Measure
7. 4' Level
8. C Clamps
9. Pry Bar
10. 1" Hammer Drill
11. Sledge Hammer

Consumables

1. Anti-Seize Compound
2. Marine Grease

Manpower

Three (3) men

Time (assuming no problems)

3.00 - 6.00 hours

Installation Steps

1. Determine where the Spyder is to be installed (see Figures #1 thru #3 in the Dimensions Section and the tunnel layout drawings for your location).
2. Sweep any debris from where the Spyder will stand.
3. Check all hardware and place a small amount of Anti-Seize Compound on each bolt.
4. Place the Sonny's lift-a-ma-jig onto the passenger's side of the Entrance end of the Spyder on the Frame of the Mitter and bolt into place. Bring the forklift into the lift-a-ma-jig.

Note: Place the Mitter legs as closely as possible to their final placement.

5. Bring the Mitter into the building as close to its final position as is practical. Lift the Mitter into place.
6. Place the Driver's and Passenger's side sections into position and bolt to the top. Do not over tighten—snug only. Note the Driver's Side Section has a bolt for a stop on the tire brush frame.
7. Back the Mitter out and unclamp the Lift-a-ma-jig.
8. Clamp the Exit End Wrap to the forklift, using the Lift-a-ma-jig. Bring the Exit End Wrap into the exit end of the building.

Note: Use a long pry bar to adjust location prior to adding the wraps into place.

9. Place the Wrap into the Mitter frame. Bolt the frame into place. Do not over tighten—snug only.
10. Clamp the Entrance End Wrap to the forklift using a 2 x 4 to offset the slope of the floor. Bring the Entrance End Wrap into the entrance end of the building.
11. Place the Wrap into the Mitter frame. Bolt the frame into place. Do not over tighten—snug only.
12. Level and square the frame with the centerline of the equipment (see Figures #1 in the Dimensions Section and the tunnel layout drawings for your location).

Note: Before lagging the frame into position have a second person double check all measurements against your tunnel equipment layout drawings to ensure all measurements were performed correctly.

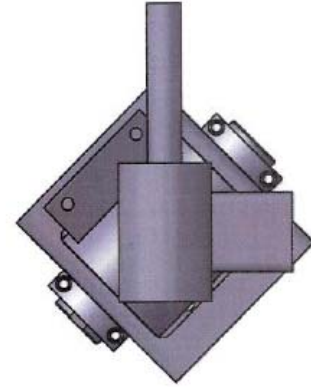
Note: Before lagging the Mitter legs in place, loosen the tire brush support bracket this will allow you to move it later.

13. Place an Anchor Bolt in each corner. Tighten all hardware.
14. Move each Brush Hanger from the center of the wash tunnel so that it is parallel to vehicle travel. With each Brush Hanger in this position, check that the hanger is level. Up or down adjustment of the Brush Hanger can be achieved by placing shim material under the Brush Hanger Pillow Block Bearings.
15. Double check that the bottom Pillow Block Bearing for each Brush Hanger is EXACTLY below the top Pillow Block Bearing. This is necessary to provide light brush pressure against the side of the vehicle.
16. Check that the shock absorbers on each Brush Hanger do not "bottom out" in their fully extended position. If this occurs move the shock mounting position to a different hole on the mounting bracket to prevent a fully extended condition.
17. Mount the Brush Head, Shaft and Core assembly to each Hanger Arm. Connect the pre-plumbed hydraulic lines.
18. For the Entrance, Exit End Wraps run and connect a 1/2 inch PRESSURE line from the Hydraulic Power Pack to the 1/2 inch male pipe thread fitting on the BLACK high pressure hose on the leg of the Wraparound Brush.
19. For the Entrance, Exit End Wraps run and connect the 1/2 inch RETURN line to the Hydraulic Power Pack to the 1/2 inch male pipe thread fitting on the ORANGE or RED high pressure hose on the leg of the Wraparound Brush.
20. Run and connect the chemical lines from the Chemical Distribution Manifold to the chemical line on the Wrap frame for the application nozzles.
21. Rotation of the Brushes is with vehicle travel. As viewed from the top of each Brush the DRIVER side turns COUNTERCLOCKWISE and the PASSENGER side turns

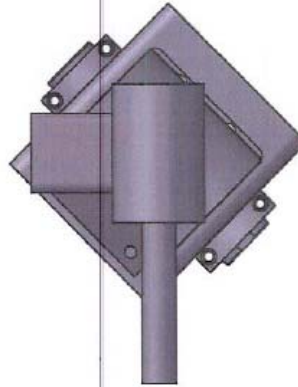
Equipment Program - Manuals Wrap Around Washer Manual SF Wrap Series

CLOCKWISE. Rotation speed of each Brush should be according to the Operating Speeds Chart in the Adjustments and Testing Section.

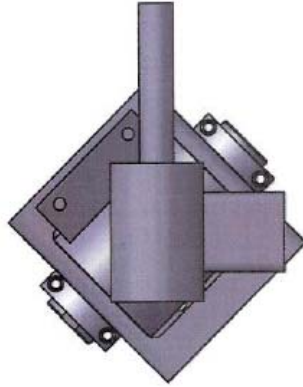
22. Run and connect the air lines from the Air Distribution Manifold to the air cylinder for each retract.
23. Install cloth on the Brush Cores according to the type of material being used (see Figure #6 thru #9 in the Dimensions Section).



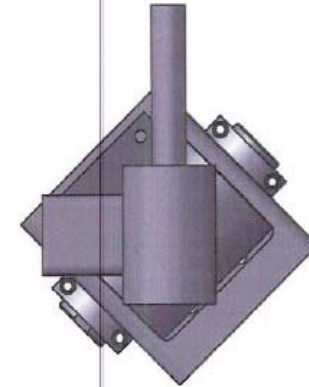
DS EXIT (109003A)



DS ENTRANCE (109046A)



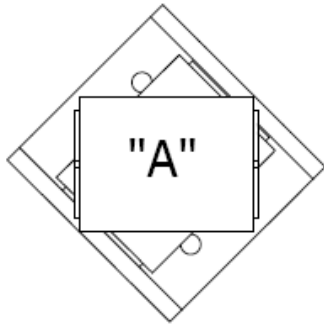
PS EXIT (109004A)



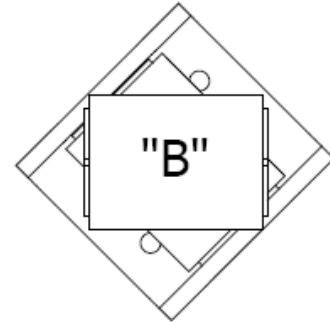
PS ENTRANCE (109045A)

**INSTALLATION GUIDE:
 FOR 45° FLEX COUPLERS
 (LOOKING TOP DOWN)**

Restrict-O-Flex Coupler Mounting

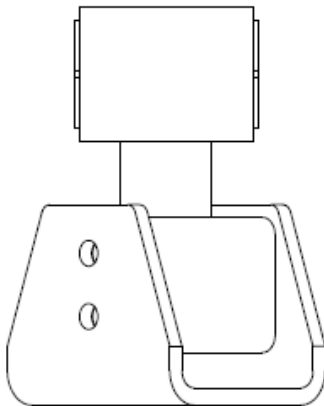


TOP VIEW

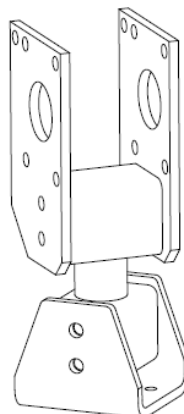
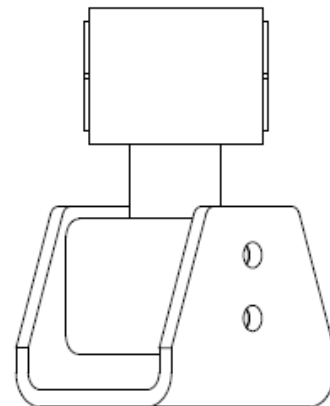


"DS"
 ENTRANCE / EXIT

"PS"
 ENTRANCE / EXIT



SIDE VIEW



Adjustments and Testing

Mechanical Adjustment of the Hanger Arms

1. Install the unit so that the legs are plumb, the hanger arms are level when at the rest position and the mounting bearings are positioned perpendicular to floor (no pitch).
2. The rest position will vary with operator preference and region. If front license plates are present the brushes should be open slightly to clear the plate, approximately one inch between when spinning. If there are no front plates then when spinning the tips of the cloth should be penetrating about one inch.
3. The two brushes should return to the rest position (middle of the tunnel) with no air pressure and no pitch to the bearings.

Operating Speeds Chart

Chain Speed	Brush Speed	Air Pressure Pass	Air Pressure Driver
50-70CPH	70-75RPM	0PSI	0PSI
70-80CPH	80-85RPM	0-5PSI	0-5PSI
80-90CPH	85-90RPM	5-15PSI	5-10PSI
90-125CPH	90-95RPM	15-25PSI	10-15PSI

Two Solenoid valves, one for each retract, are recommended for 80 or more cars per hour.

To adjust the operation of the brushes without air pressure you may adjust the position of the pillow block bearings.

1. TO INCREASE THE PRESSURE ON THE SIDE AND BACK OF THE VEHICLE: Adjust the bottom pillow block bearing away from the center of the tunnel. Move in 1/8 inch increments at a time.
2. TO DECREASE THE PRESSURE ON THE SIDE AND BACK OF THE VEHICLE: Adjust the bottom pillow block bearing towards the center of the tunnel. Move in 1/8 inch increments at a time.

Cloth penetration should be about three to four inches on the flat surface of the car. Each of the brushes should cover about two thirds of the back of the vehicle, overlapping in the center.

GENERAL OPERATION

Wrap Around Washer Operation

With the brushes rotating (with the direction of vehicle travel and at proper RPM) the vehicle front bumper contacts the driver side brush first and then the passenger side brush. The brushes move evenly across the front of the vehicle, each washing one half of the front, and gear around the front fenders to maintain steady contact while cleaning the sides of the vehicle.

As the rear of the vehicle approaches the brushes they individually gear themselves around the rear fenders so that each brush washes one half of the vehicle rear vertical surfaces. As the vehicle departs the wraparound brush area the brushes are fully extended toward the center of the wash tunnel ready to accept another vehicle for washing.

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

Wrap Retract Operation

When selected by the Operator's remote Programmer push button station the wraparound brushes will retract from the center of the wash tunnel toward the tunnel outer walls. This can be done individually if one solenoid is used for each arm.

This is accomplished, when the push button is pressed, by completing an electrical circuit through the equipment Programmer to pass single phase power at the preset pulse count of the Programmer to the retract air solenoid valve. The air solenoid valve now opens and allows compressed air to pass through to the rod end port of each air cylinder causing the brush hangers to retract.

PREVENTIVE MAINTENANCE

DAILY

1. Check all hydraulic, air and chemical lines and fittings for leaks. Repair, or replace, as needed.
2. Check both brush units for proper operation and retract operation, listening for any unusual noises from the equipment.
3. Inspect brush cloth for cuts, grease, or oil. Remove and repair, or replace, any cloth panel if any of these conditions are found.
4. Check for proper chemical solution delivery.

WEEKLY

1. Inspect the Spring Flex couplings for secure mounting and freedom of movement and grease the Spring Flex couplings universal joints as required.
2. Grease the brush shaft four bolt flange bearings. Do not allow grease to come in contact with brush cloth.

FOR THE FIRST MONTH OF OPERATION CHECK ALL HARDWARE AND FITTINGS FOR TIGHTNESS EACH WEEK. PERFORM THIS INSPECTION TO THE SCHEDULE SHOWN BELOW AFTER THE FIRST MONTH OF OPERATION.

MONTHLY

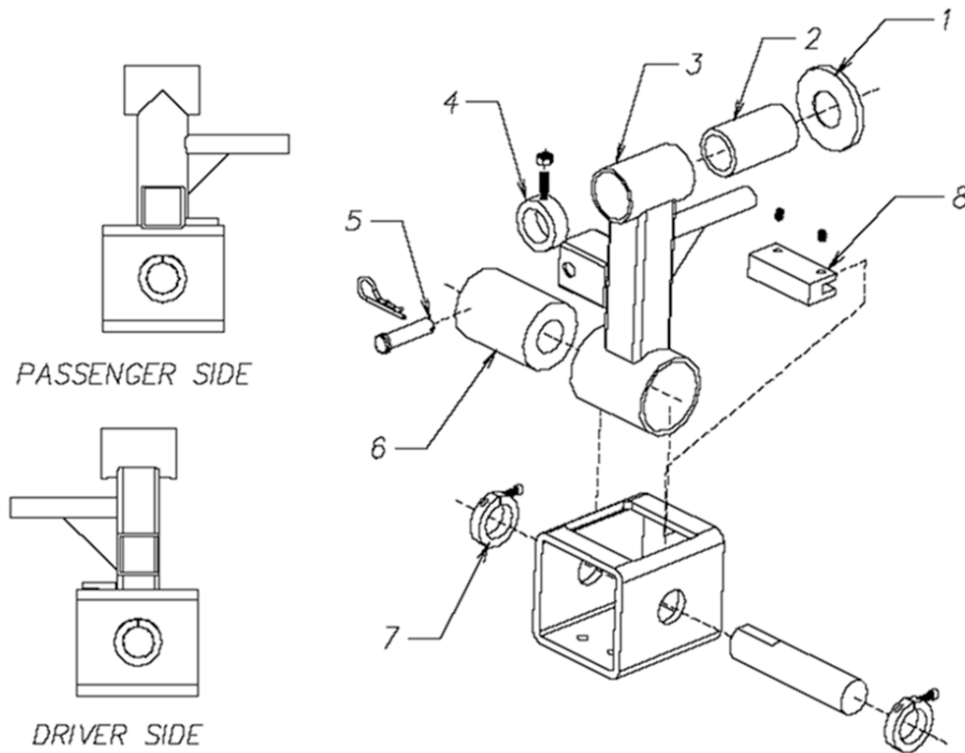
1. Inspecting all hardware and fittings for tightness.
2. Grease the brush hanger pillow block bearings. Do not allow grease to come in contact with brush cloth.
3. Inspect soap solution spray nozzles for wear. Replace as necessary.
4. Thoroughly clean the equipment and framework.

SEMI-ANNUALLY

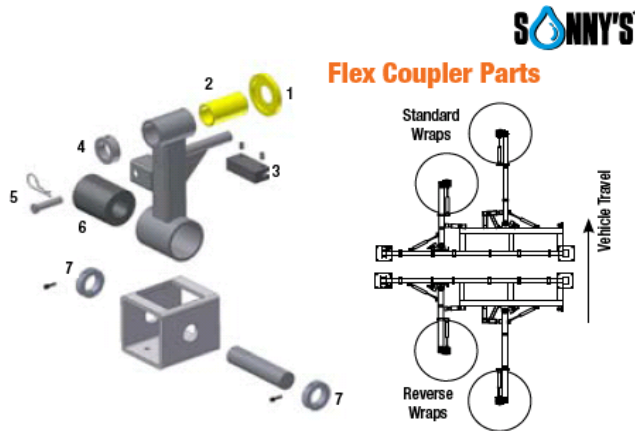
1. Carefully inspect brush equipment cloth for wear and damage. Replace as necessary.

EXPLODED VIEWS

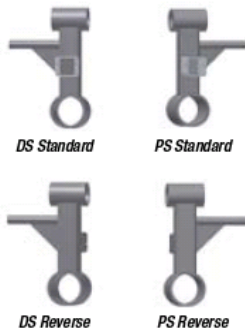
Wrap Flex Coupling



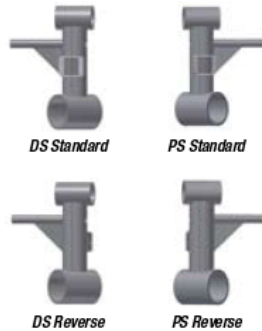
PARTS LIST



Straight Couplers



45° Couplers



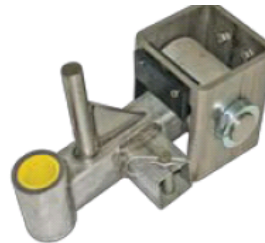
#	Item #	Description	Price
2	SF77P12	Bushing, Plastic Insert 2in x 1 1/2in	\$8.95
6	SF77P13	Bushing, Plastic Insert 3in x 1 1/2in	9.95
3	SF77RB	Restrictor Block SF77 & SF68	11.40
1	SF77ARMSPA	Spacer, Plastic 3 1/4 OD x 1 1/2 ID	11.40
4	SSC150	Collar, 1pc Shaft 1 1/2in SS	9.32
7	24S	Collar, Single Split 1 1/2in Zc Plated	5.25
5	BFL100PC	Pin & Cotter, SS 2 1/2in x 5/8in	9.50



Torque Channel
 1 1/2in for use on all brush shafts:

- SF68 Wrap-Around
- SF77 Wrap-Around
- SF07 Big Man Wrap-Around

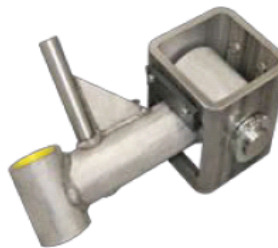
Item #	Description	Price
T1085WR	Torque Channel w/Plastic, Wrap Around	\$31.00



Straight Flex Couplers

- For use on:**
- Straight Flex Wraps
 - Restricts movement in all directions

Item #	Description	Price
SF77FC6DX	Straight Flex Coupler, DS Standard	\$395.00
SF77FC6PX	Straight Flex Coupler, PS Standard	395.00
SF77FC6DE	Straight Flex Coupler, DS Reverse	395.00
SF77FC6PE	Straight Flex Coupler, PS Reverse	395.00
80524	Shock, Wrap Stabilizer	48.95
SF685BA	Stabilizer Shock Bracket for Wrap Arm	49.99



45° Flex Couplers

- For use on:**
- Used on BIG MAN Wrap
 - Restricts movement in all directions

Item #	Description	Price
SF07FC45DX	45° Flex Coupler, DS Standard	\$395.00
SF07FC45PX	45° Flex Coupler, PS Standard	395.00
SF07FC45DE	45° Flex Coupler, DS Reverse	395.00
SF07FC45PE	45° Flex Coupler, PS Reverse	395.00
80524	Shock, Wrap Stabilizer	48.95
SF685BA	Stabilizer Shock Bracket for Wrap Arm	49.99



Wrap Bearing Box

- For use on:**
- SF68 Wrap-Around
 - SF77 Wrap-Around
 - SF07 Big Man Wrap-Around

Item #	Description	Price
SF68BB	Bearing Box, SF68 SF77 & SF07 Wraps	\$225.60

Equipment Program - Manuals Wrap Around Washer Manual SF Wrap Series

Air Cylinder For Wraps Passenger & Driver side

- Cylinder, 2in bore x 8in stroke
- Stainless steel shaft, Vitor® seals



Item #	Description	Price
A350-2	Cylinder, 2in Bore x 8in Stroke SMC	\$110.00
RRCL38634	Rear Clevis, 3/8in x 6 3/4in w/Hardware	23.99
RDEY38634	Rod Eye, 3/8in x 6 3/4in Pin w/2 spacers	21.99
KQ2L11-35S	Elbow, Swivel 3/8in Tube x 1/4in NPT SMC	2.55

Bearings With contact seal



For use on:

- Brush Arm – 2in 2-Bolt
- Brush Shaft – 1 1/2in 4-Bolt

Item #	Description	"E"	Price
BF4150	Bearing, 4-Bolt Flange 1 1/2in	4 1/64in	\$26.30
BPB200DBLRLR	Bearing, Pillow Block 2in Double Roller	6 23/32in	194.60
BPB200MD	Bearing, Pillow Block 2in Medium Duty	6 23/32in	46.25

Shaft – Stress-proof Steel



Item #	Description	Price
SSFBX72	Shaft, 72in SF35 SF63 & Wraps	122.00
BB251C/S	Collar, 2pc Clamp 1 3/8in w/Set Screw	6.95
HS14118	Key, Woodruff 1 1/8in Half Moon	1.25



Rubber Stops

For use on:

- Wrap-Around Washers



SF77RS

SF68SPRING



SF68RSRN14
 SF68RSRN12

Item #	Description	Price
SF77RS	Rubber Stop, 3in OD x 2 1/4in ID	\$25.00
SF68SPRING	Spring Only, 1 1/4in x 3in SS 6/Pack	20.90
SF68RSRN12	Rod, Threaded 12in for Wrap Stop w/ Nuts	4.20
SF68RSRN14	Threaded Rod w/ Nuts, Wrap Stop 14in	6.20

Shock For SONNY'S Light-Touch Wrap Around Washers

- For SONNY'S SF68, SF77 and SF07 Wrap Around Washers



Item #	Description	Price
SF775SHOCK-DS	Shock, Lite Touch Wrap DS Red	\$33.99
SF775SHOCK-PS	Shock, Lite Touch Wrap PS White	46.75
SF7768PCA	Pin & Cotter w/ Spacers, DS/PS Arm	24.25
SF7768PCF	Pin & Cotter, DS/PS Shock Mount	22.70
80524	Shock, Wrap Stabilizer	48.95
BFL100PC	Pin & Cotter, SS 2 1/2in x 5/8in	9.50

Hydraulic Motors



MF120910AAAC



HS14118

Item #	Description	Price
MF120910AAAC	Motor, Hydraulic TRW Ross Parker	\$250.43
CL103-1005-012	Motor, Char-Lynn S-Plus, 1in Ring	279.35
HS14118	Key, Woodruff 1 1/8in Half Moon	1.25

CUSTOMER SERVICE

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

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

For Equipment Repairs please visit the web at www.sonnysdirect.com/manuals.

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

