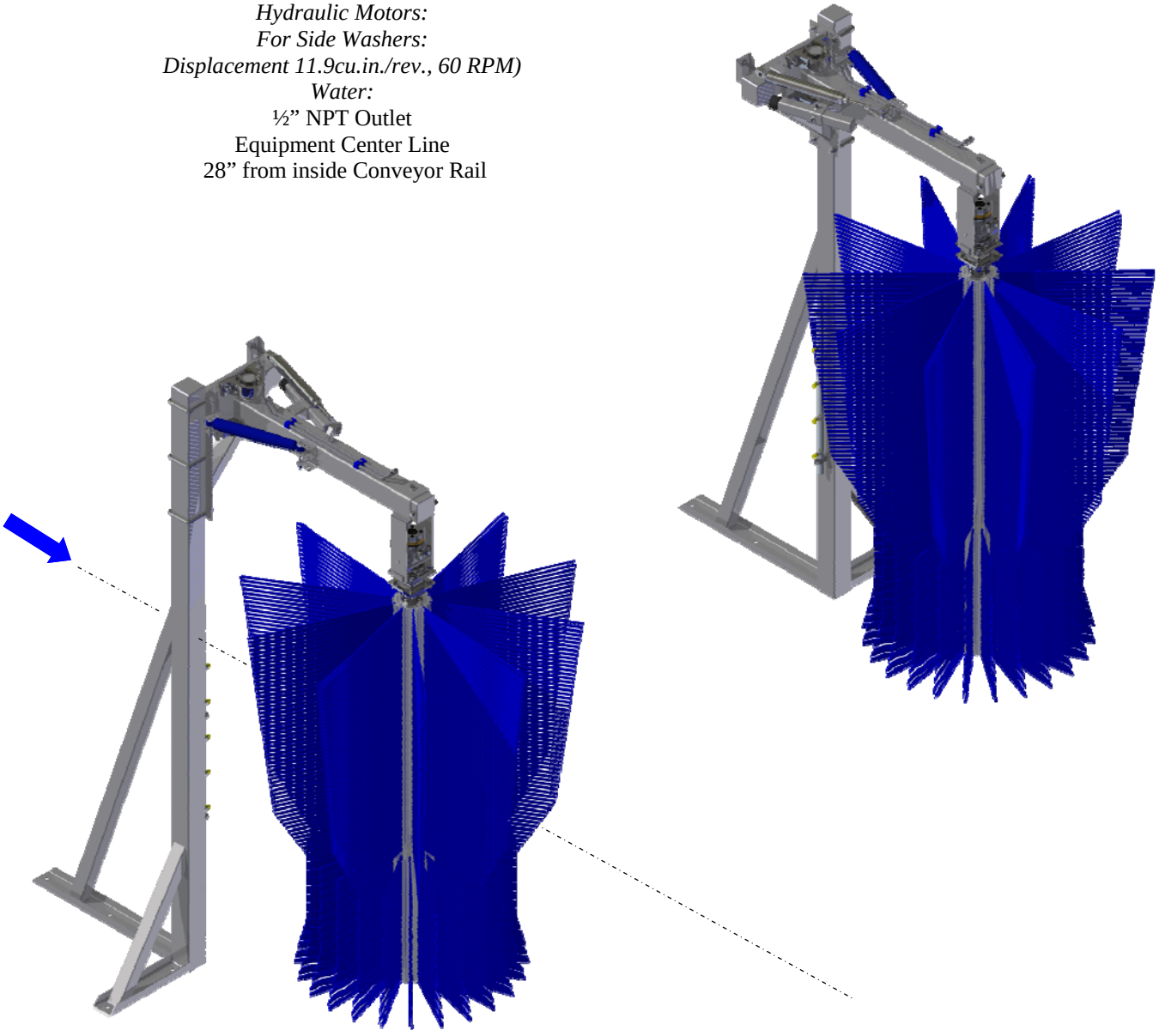
FREE STANDING SIDE WASHER, Model SW2

The **AVW FREE STANDING SIDE WASHER** is constructed of heavy grade Stainless Steel. Designed to rotate reverse of the AVW Wrap Around and to Provide contact pressure to the side of vehicle.
Van big brush height is ideal for vans and sport utility vehicles because it cleans the sides with smooth even pressure.

-Full van height of cloth
-Stainless Steel
-Mounts on vertical leg

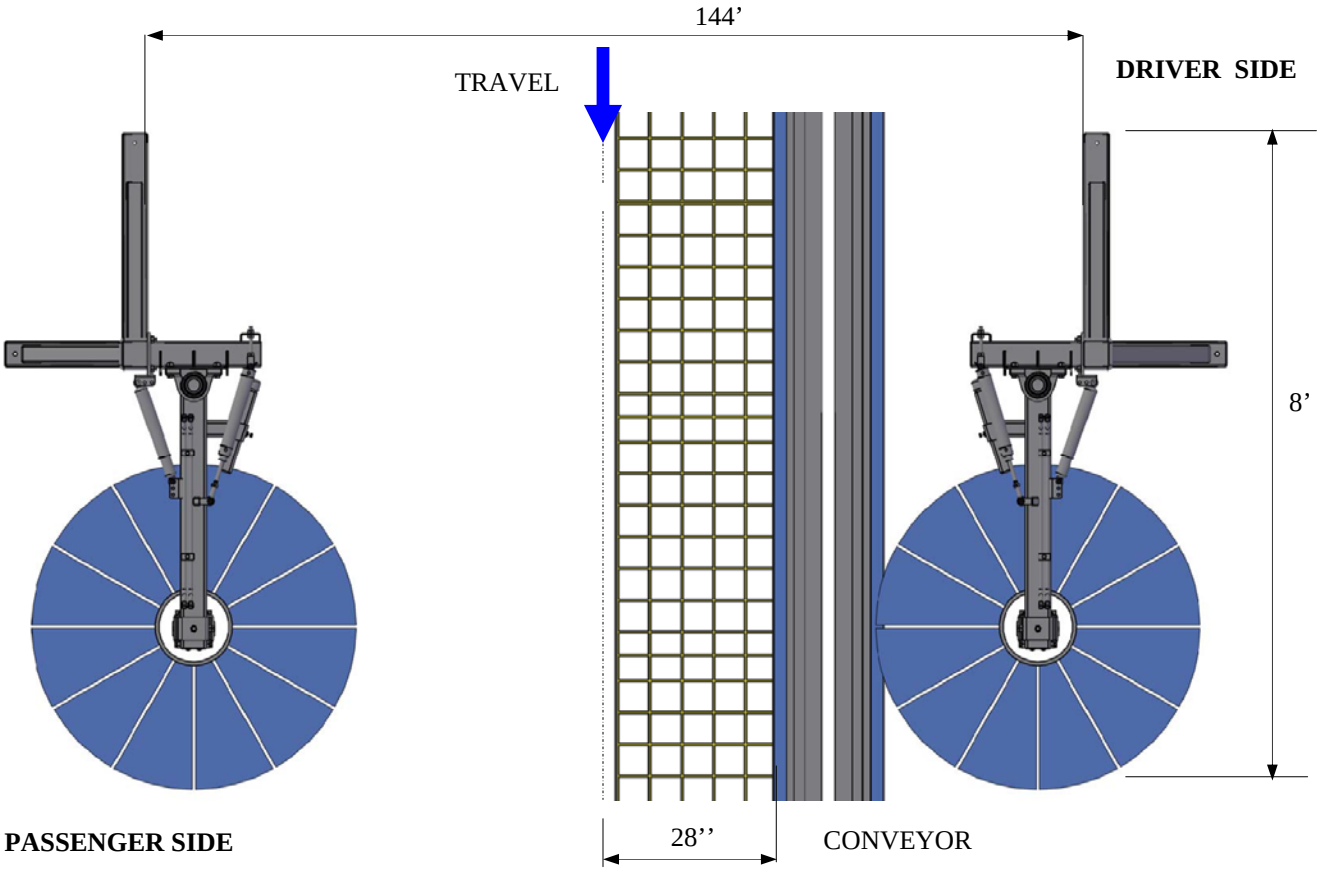
Hydraulic Motors:
For Side Washers:
Displacement 11.9cu.in./rev., 60 RPM)
Water:
½" NPT Outlet
Equipment Center Line
28" from inside Conveyor Rail

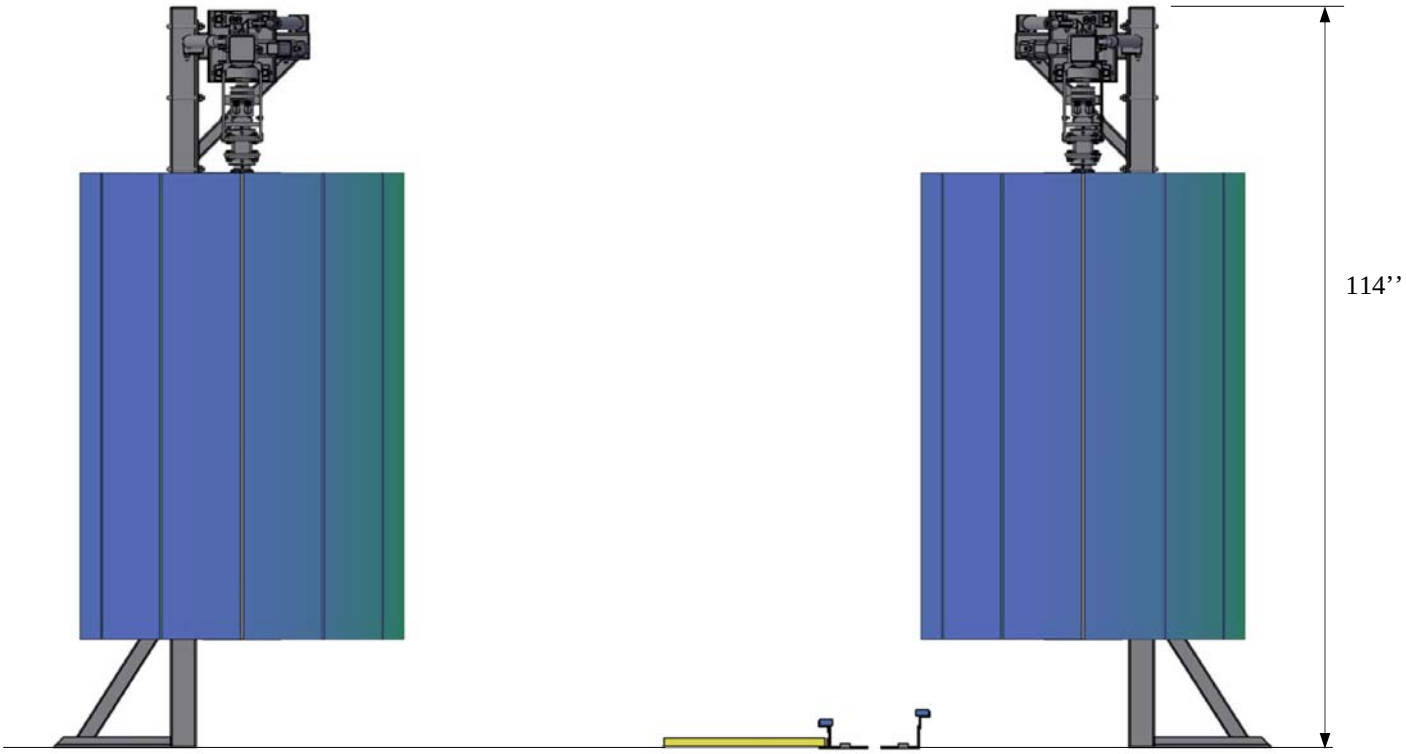


A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

SPACE REQUIREMENTS



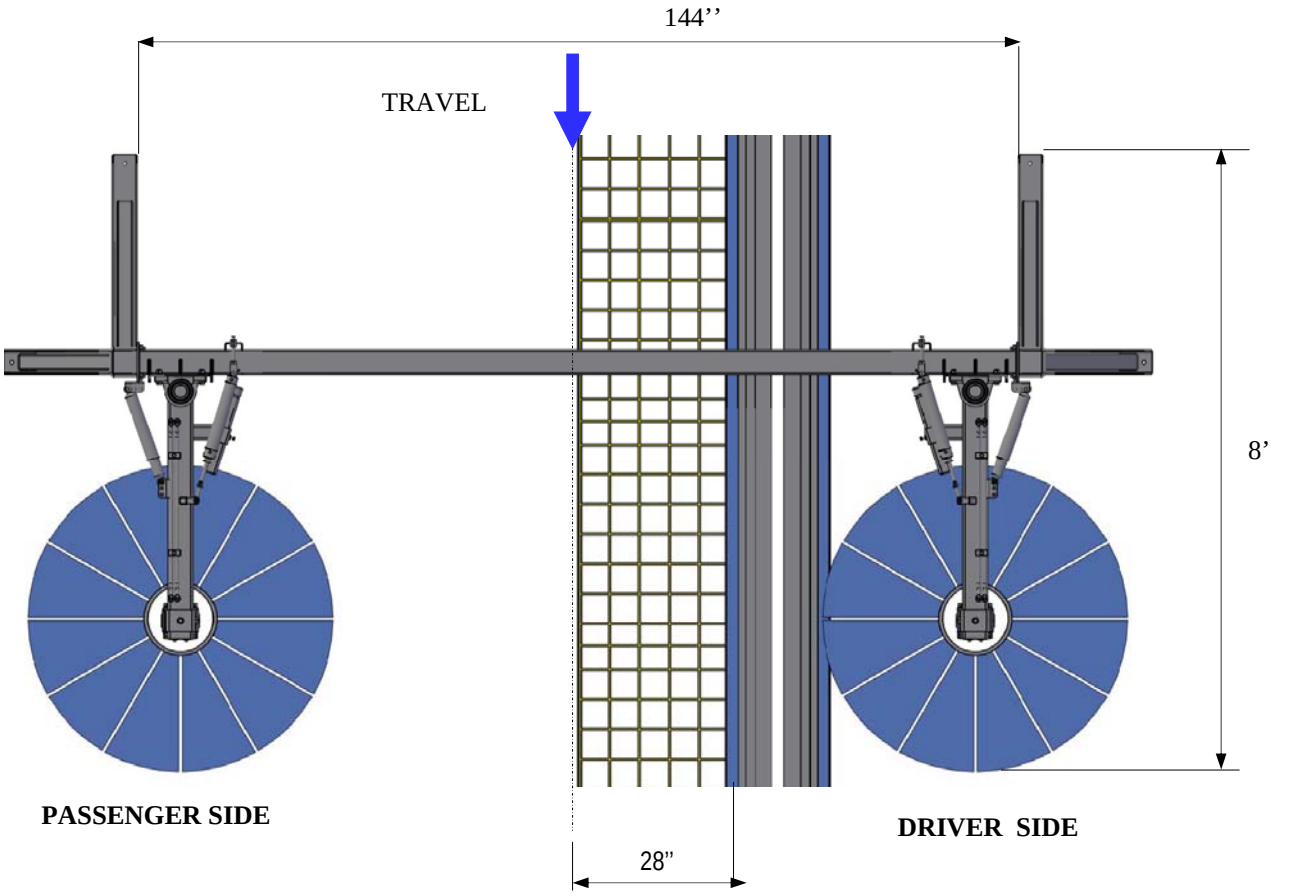


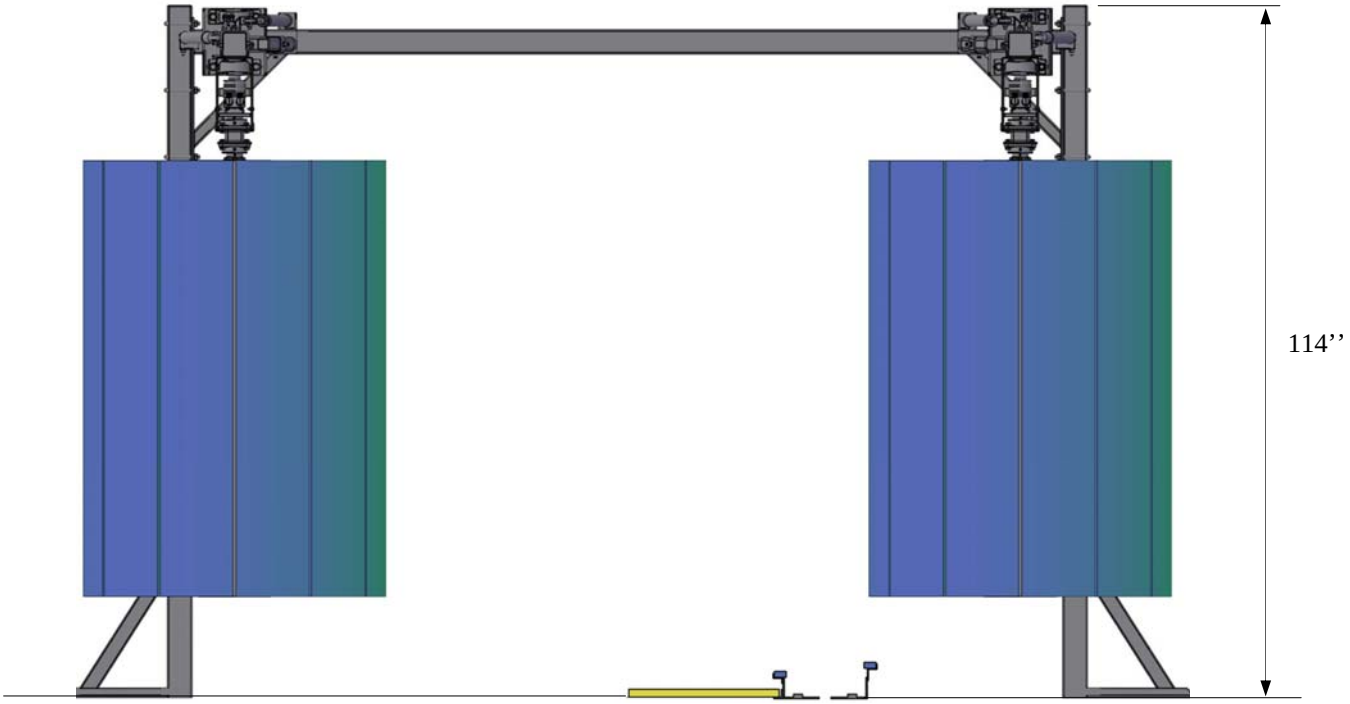
A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER w/CROSSBAR, Model SW2

SPACE REQUIREMENTS

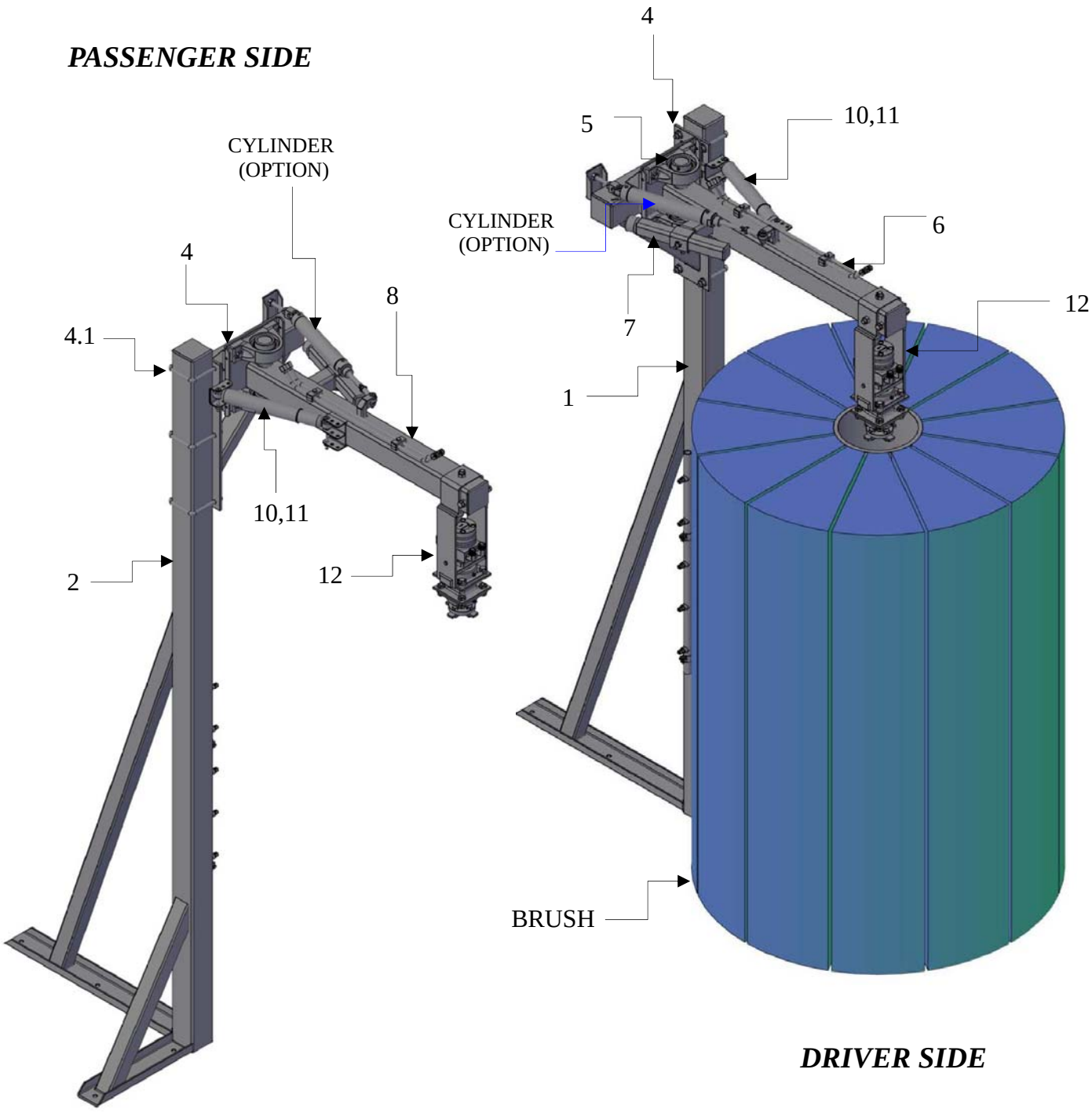
OPTIONAL





A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

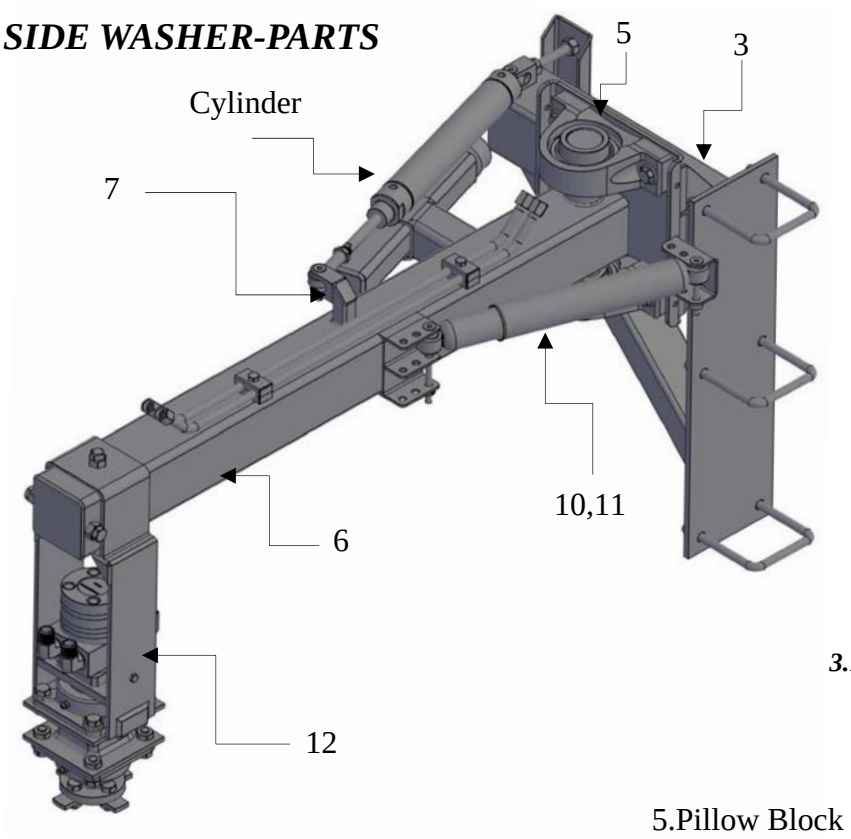
FREE STANDING SIDE WASHER, Model SW2



A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

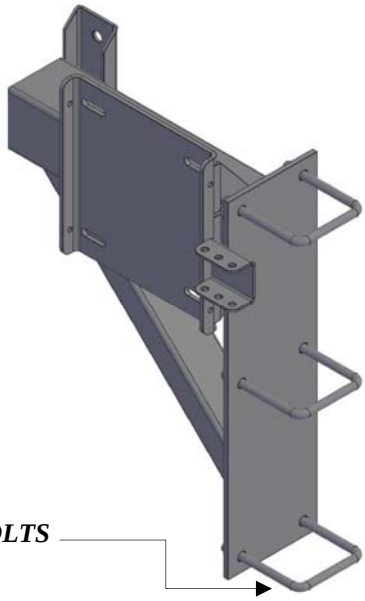
FREE STANDING SIDE WASHER, Model SW2

SIDE WASHER-PARTS



DRIVER SIDE

3. DRIVER SIDE-ARM MOUNT



7. Rubber Stop Assembly

5.Pillow Block
Blocks 2’’

16
Brushes

Bracket for
Retract Kit

Cylinder -w/Pins, Collars and Rear Mounts-Optional

10. SHOCK ABSORBERS
w/PINS & COLLARS 3/8”

HYDRAULIC HOSES
w/Male and Female
Crimps and Fittings
for Wrap Arms

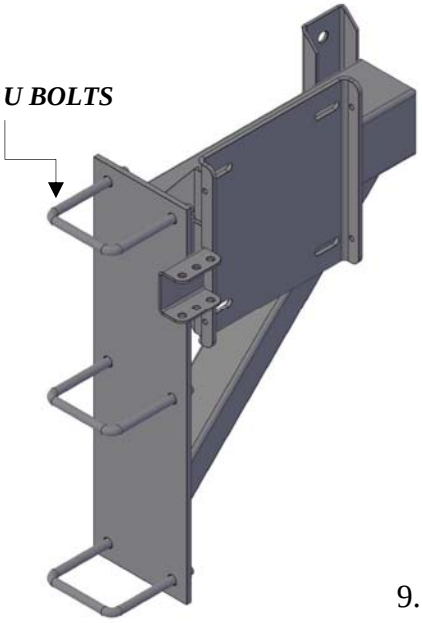
A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

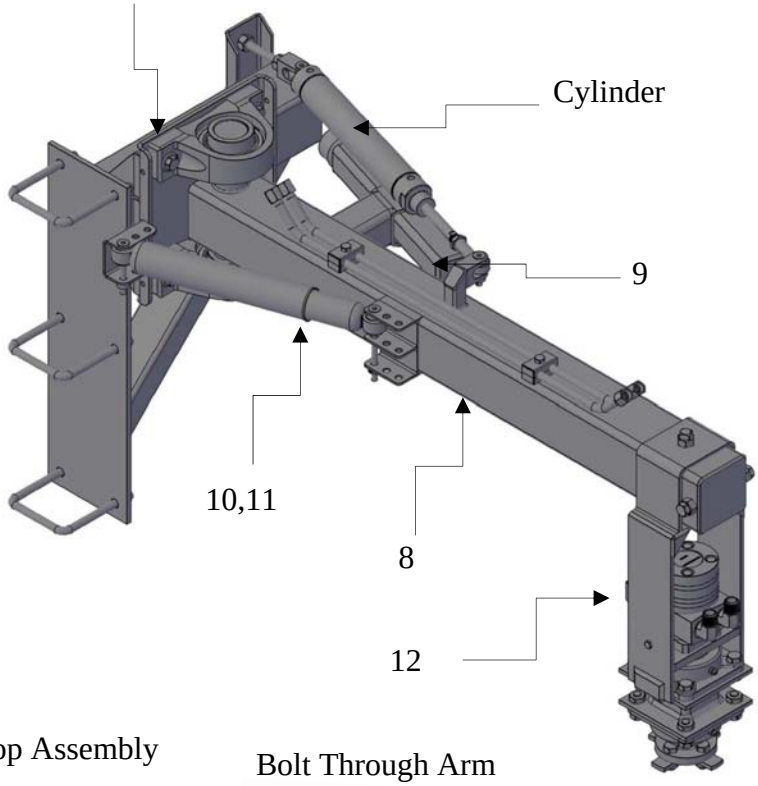
SIDE WASHER-PARTS

4. PASSENGER SIDE-ARM MOUNT

4.1 U BOLTS



PASSENGER SIDE



9. Rubber Stop Assembly

Bolt Through Arm

5.Pillow Block

Cylinder -w/Pins, Collars and Rear Mounts-Optional

Bracket for Retract Kit

10. SHOCK ABSORBERS w/PINS & COLLARS 3/8”

HYDRAULIC HOSES w/Male and Female Crimps and Fittings for Wrap Arms

16 Brushes

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

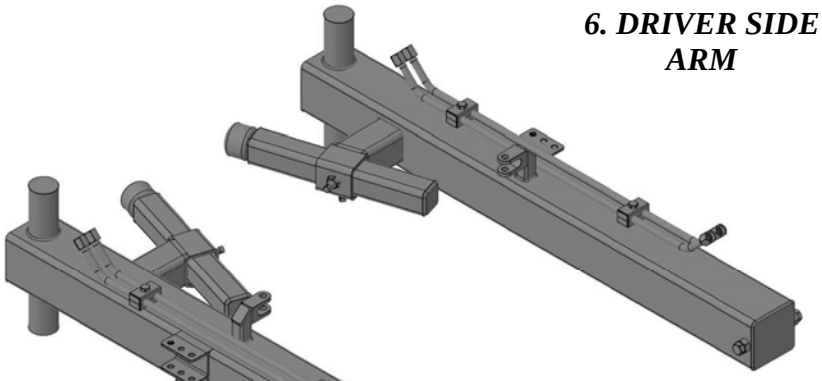
FREE STANDING SIDE WASHER, Model SW2

SIDE WASHER -PARTS

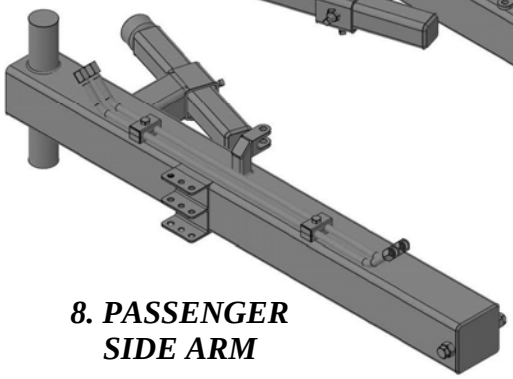
1.LEG

PVDE NOZZLE
1/4'' 08E40

6. DRIVER SIDE ARM

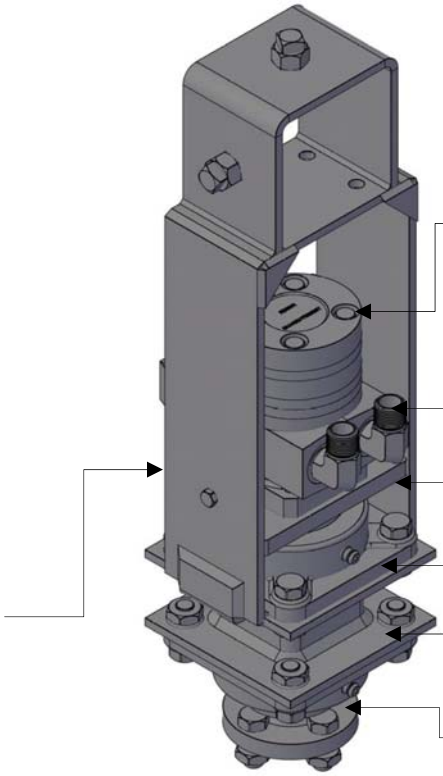


8. PASSENGER SIDE ARM



Bolt Through Arm

12. MOTOR MOUNT



12. MOTOR MOUNT

13. HYDRAULIC MOTOR

Torque plate

14. BRUSH SHAFT

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

ITEM	Description	PART No.	QTY.
1	DRIVER SIDE LEG	SW2A	1
2	PASSENGER SIDE LEG	SW2P	1
	CROSSBAR 12FT –Optional	SC5BAA	1
-	**ARM MOUNT ASSEMBLY – DRIVER SIDE**	SW2B-0712	1
3	Arm Mount – Driver Side	SW2BA	1
3.1	Square U-Bolt Fastener set 1/2''	RB2ABB	3
	Square U-Bolt 1/2''x17''lg	RB2ABB1	3
	Split lock Washer 1/2''	SLW1/2	3
	Hex Nut 1/2''-13	HN1213	3
3.2	Hex Head Cap Screw 3/8"-16x2"lg.(fully threaded, for pillow block adjustment)	HHCS3816200F	4
-	**ARM MOUNT ASSEMBLY – PASSENGER SIDE:**	SW2C-0712	1
4	Arm Mount – Passenger Side	SW2CA	1
4.1	Square U-Bolt Fastener set 1/2''	RB2ABB	3
	Square U-Bolt 1/2''x17''lg	RB2ABB1	3
	Split lock Washer 1/2''	SLW1/2	3
	Hex Nut 1/2''-13	HN1213	3
4.2	Hex Head Cap Screw 3/8"-16x2"lg. (fully threaded, for bearing adjustment)	HHCS3816200F	4
5	**PILLOW BLOCK 2"**	WA1WB	4
-	Screw Fastener Set 1/2" (for pillow block):	-	8
-	Hex Head Cap Screw 1/2"-13x2¼"lg.	HHCS12132	8
-	Flat Washer 1/2"I.D.x1¼"O.D.	FW12125	16
-	Split Lock Washer 1/2"	SLW1/2	8
-	Hex Nut 1/2"-13	HN1213	8
-	**DRIVER SIDE ARM ASSEMBLY:**	SW1D	1
6	DRIVER side ARM 42"lg.	SW1DA	1
-	Bracket For Retract Kit (welded)	WA1DAD	1
7	Rubber Stop Arm Assembly:	WA1DB	1
-	Stop Arm	WA1DBA	1
-	Rubber Bumper	WA1DBB	1
-	Screw Fastener Set 3/8" (for bumper):	-	1
-	Hex Head Cap Screw 3/8"-16x1¼"lg.	HHCS3816125	1
-	Flat Washer 3/8"I.D.x7/8"O.D.	FW38087	1
-	Hex Nut 3/8"-16	HN3816	1
-	Square Head Screw 3/8"-16x3/4"lg. (for stop adjustment)	SQHS3816075	2
-	Bolt Through Top Arm with:	SW1DC-0210	1
	Threaded Rod ½''-13x5''lg	THRD1213500	1
	Flat Washer 1/22''I.D.x1''O.D.	FW12100	2
	Nylon Lock Nut	NLN1213	2

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

ITEM	DESCRIPTION	PART No.	QTY.
-	**PASSENGER SIDE ARM ASSEMBLY:**	SW1E	1
8	**PASSENGER side ARM 42”lg.**	SW1EA	1
-	Bracket for Retract Kit (welded)	WA1DAD	1
9	Rubber Stop Arm Assembly:	WA1DB	1
-	Stop Arm	WA1DBA	1
-	Rubber Bumper	WA1DBB	1
-	Screw Fastener Set 3/8” (for bumper):	-	1
-	Hex Head Cap Screw 3/8”-16x1¼”lg.	HHCS3816125	1
-	Flat Washer 3/8”I.D.x7/8”O.D.	FW38087	1
-	Hex Nut 3/8”-16-	HN3816	1
-	Square Head Screw 3/8”-16x3/4“lg. (for stop adjustment)	SQHS3816075	2
-	Bolt Through top arm with:	SW1DC-0209	1
	Threaded Rod ½’’-13x5’’lg	THRD1213500	1
	Flat Washer 1/22’’I.D.x1’’O.D.	FW12100	2
	Nylon Lock Nut	NLN1213	2
10	**SHOCK ABSORBER ASSEMBLY:**	WA1FA	2
11	Shock Absorber	WA1FAA	2
-	UHMW Bushing 3/8”I.D.	WA1FA1	4
-	PIN Æ3/8”x3”lg.	TB1AEA	4
-	COLLAR 3/8”	WA1FC	4
-	**BRUSH SHAFT ASSEMBLY:**	SW2K	2
12	**MOTOR MOUNT**	SW5KA	2
-	Square Head Screw 1/2“-13x1½”lg.	SQHS1213150	4
-	Motor Retaining Screw:	-	4
-	Hex Head Cap Screw 3/8”-16x3/4“lg.	HHCS3816075	4
-	Nylon Lock Nut 3/8”-16w	NLN3816	4
13	Hydraulic Motor, displacement 11.9 [cu.in./rev.]	WA1KM	2
-	Fitting 90° Elbow 1/2“NPTMx1/2“JIC	SAE070202-8-8	4
-	Torque Plate	WA1K1	2
-	Hex Head Cap Screw 3/8”-16x3/4“lg. (motor’s fastener)	HHCS3816075	8
14	Brush Shaft Ø1½”x10-1/2”lg.	WA5KB-9	2
15	4-bolt Bearing 1½”	WA1KCB	4
-	Screw Fastener Set 1/2“ (for bearing):	-	16
-	Hex Head Cap Screw 1/2“-13x1¾”lg.	HHCS1213175	16
-	Flat Washer 1/2“I.D.x1”O.D.	FW12100	16
-	Split Lock Washer 1/2“	SLW1/2	16
-	Hex Nut 1/2“-13	HN1213	16

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

ITEM	DESCRIPTION	PART No.	QTY.
17	**HYDRAULIC & WATER INSTALLATION:**	SW1L	1 set
17.1	Side Water Manifold Assembly:	WA1LA	2
-	Water Manifold (tubing 1"O.D. x 36"lg., w/4 water outlets 11" apart)	WA1LAA	2
-	Hollow Hex Plug 1/2"NPTM	SAE140109P-8	2
-	Barb 1/2"x1/2"NPTM	BRB1/2x1/2	2
-	Nozzle 1/4"NPTM	NZ1/4	10
-	Water Hose 1/2"I.D. (braid reinforced polyurethane tubing)	-	
-	Pipe Clamp 3/4", for water hose and side water manifolds (w/screw fasteners 1/4")	PPP3/4	4
17.2	Hydraulic Tube Assembly:	-	
-	Hydraulic Tubes 1/2"O.D.xW.035" , Stainless Steel	-	
-	Tube Support Sleeves 1/2"JIC	SAE070115-8	
-	Nuts 1/2"JIC	SAE070110-8	
-	Hydraulic Hose Assembly:	WA1LB	8
-	Hydraulic Hose 3/8"I.D.x34"lg., thermoplastic	SAE100R7-08x34	8
-	Crimp fitting SAE 37°JIC swivel (female)	FC5810-0806	4
-	Crimp fitting SAE 37° JIC male flare	FC5807-0806	12
-	Damping Clamp 1/2", for hydraulic tubes (w/screw fasteners 1/4")	DMP1/2	4

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

Figure 1

In order to get a higher application pressure at either driver side or passenger side of the machine, move the bottom bearings towards the its center, or away from the center to achieve lower application pressure.

note: Application pressure is the pressure of the brush applied onto the car.

Fine tuning adjustment for getting better performance of AVW Wraps

- The RPM of the wrap hydraulic motor should be set at approximately 60 RPM to allow brush to flare out fully.
- Set hydraulic relief pressure so that brush can start to stall, when contacting the front end of the widest vehicle and then increase ½ turn. The brush should never be able to stall on a front end of vehicle.
- Use a lot of soap and lubrication on the cloth.
- Do not use excessively worn cloth.
- Replace shock absorbers approximately every 6 months.
- Travel on back of car should not exceed 3/4 of back end of vehicle.
- Keep initial adjustments light as wraps will tend to loosen up as they break in and cloth absorbs more soap and water.
- Start adjusting with bearings straight up and down, usually no more than 1/4" of bearing travel will be required
- Set wraps for average conveyor speed, if conveyor speed increases or decreases more than 25 cars per hour up or down (50 cars per hour range) additional adjustment may be required.

Flex coupler fails or twists

Possible Causes & Troubleshooting:

•Torque settings on hydraulics is set too high.

• Flex coupler should be replaced approx. every 200,000 cars.

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com

FREE STANDING SIDE WASHER, Model SW2

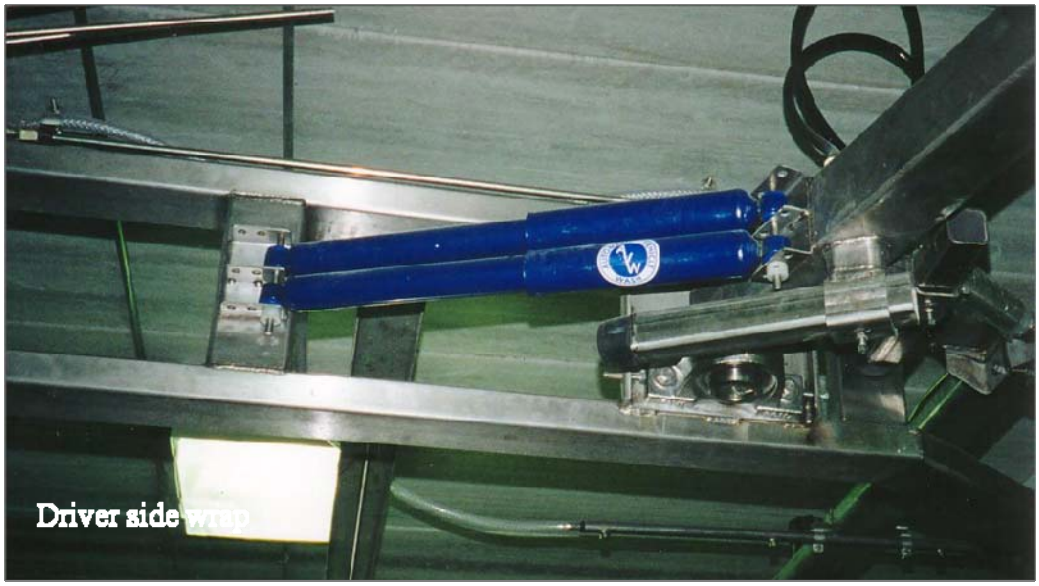


Figure 2

Brush climb up on back ends of the car

Possible Causes & Troubleshooting:

- The car is rolling ahead because of uneven floor and stopping with wrap on rear of car.
- Torque (Pressure) is set too high and brush will not stall as it climbs.
- Brush speed may be too fast. set at 60 RPM
- Brush may be set to travel more than 3/4 of backend of car / more swing after break- in period.
- Keep pivot point low as possible try not to mount over tire brushes or where high clearance is needed off the floor.
- Car may be stopping or rolling because of a treadle on floor or pocket in floor
- If the friction is too high-apply more soap or lubrication.
- The faster the brush RPM, the more travel on the back of the vehicle-adjust RPM.

Figure 3

Mirror is damaged or broken

Possible Causes & Troubleshooting:

- Lower portion of the brush is set to high coming into contact with mirror-stay below 33" from the top of the lower fuller section of the brush.
- Arm is restricted not to swing out far enough to clear the vehicle-adjust the bumper so that brush can clear the vehicle.
- Too much tilt on the bearing causing excessive side pressure –adjust the tilt on the bearing to reduce the pressure.
- Weak shocks absorbers-replace shock absorbers.
- Brush speed incorrect-set the speed.

A.V.W. Equipment Co. Inc. 105 South 9th Avenue, Maywood, IL, 60153
Phone: 708-343-7738 Fax: 708-343-9065 email: info@avwequipment.com Website: www.avwequipment.com