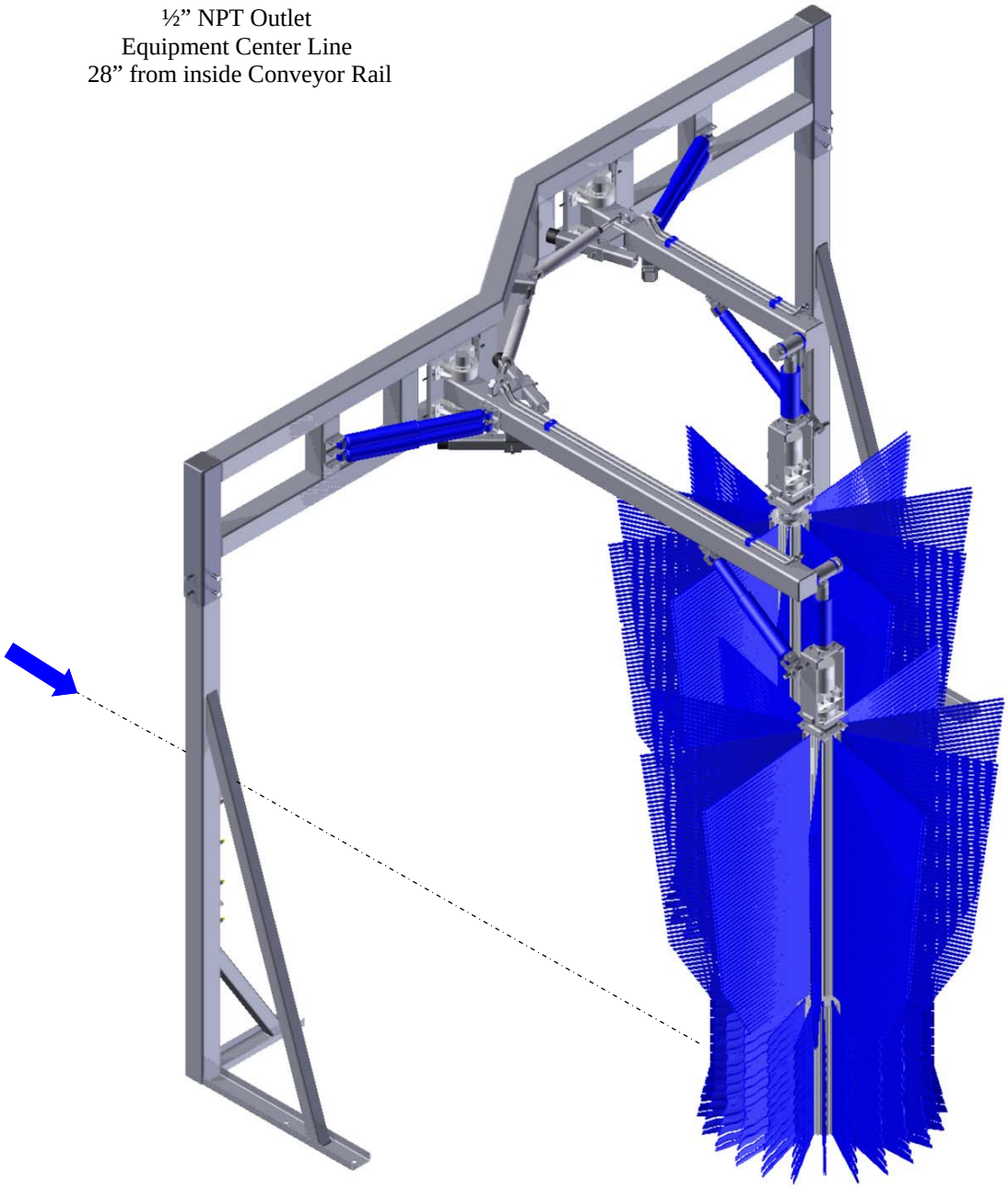
FREE STANDING WRAP AROUND, Model WA1

The **AVW FREE STANDING WRAP AROUND** operate on gravity. No complicated controls because of the design it can self adjust to most Conveyor speed requirements. Simple design and low maintenance

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



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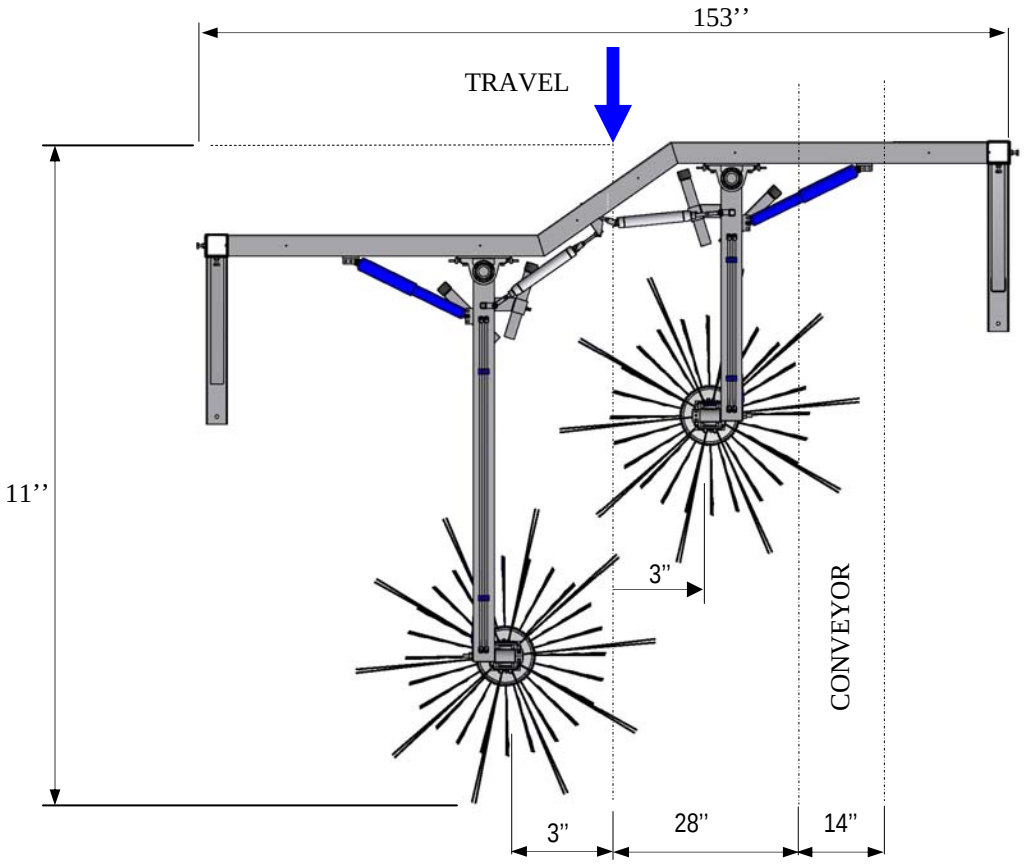
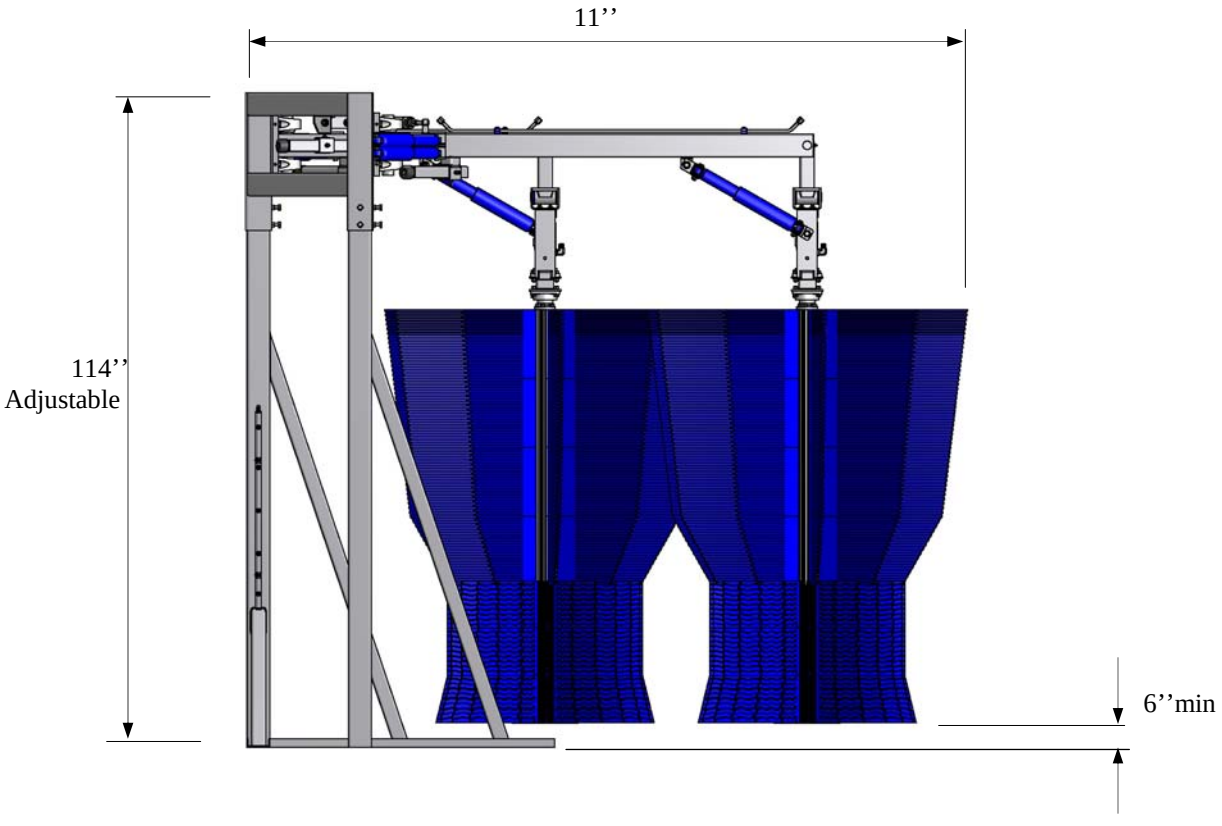
FREE STANDING WRAP AROUND, Model WA1

SPACE REQUIREMENTS





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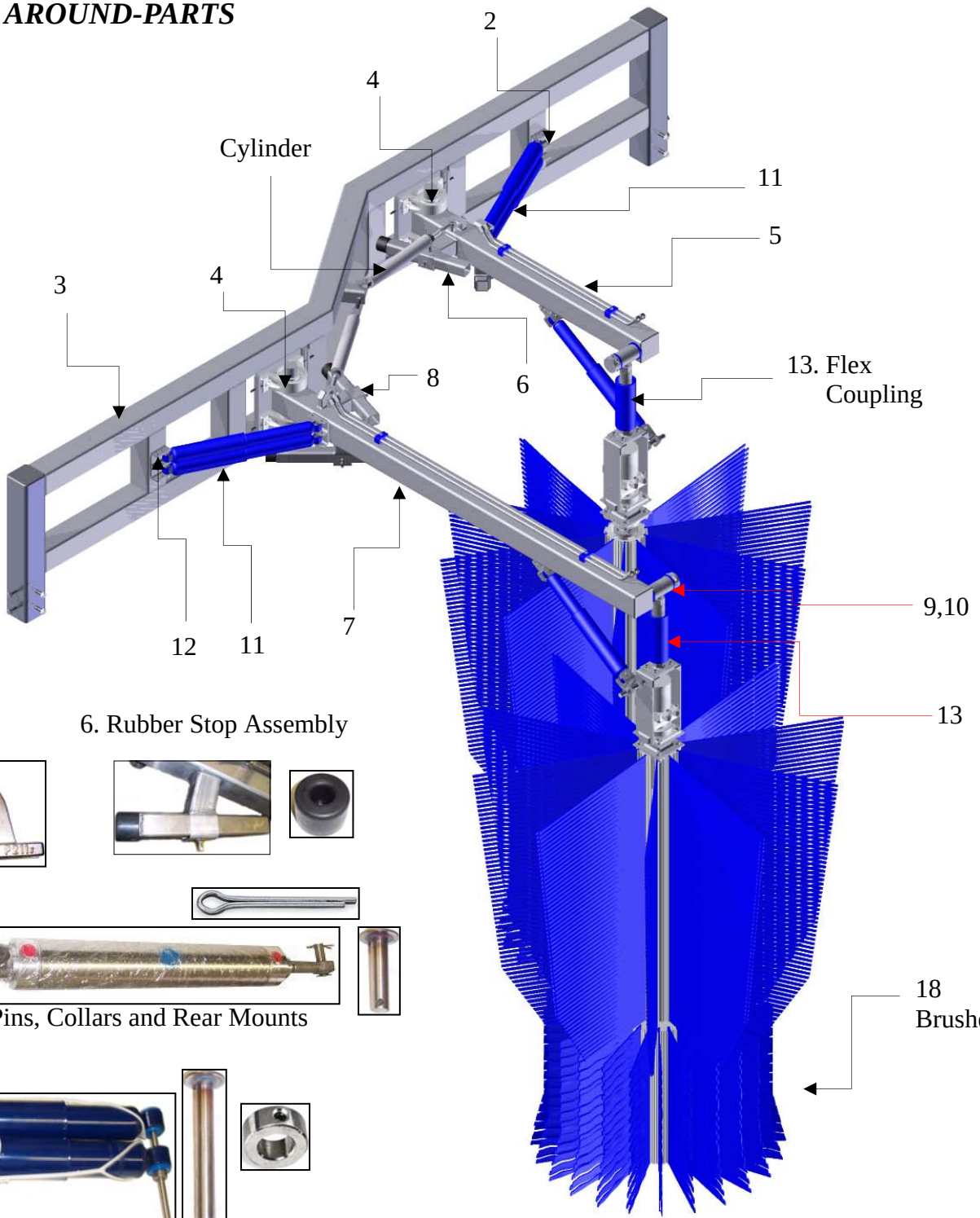
FREE STANDING WRAP AROUND, Model WA1

WRAP AROUND-PARTS

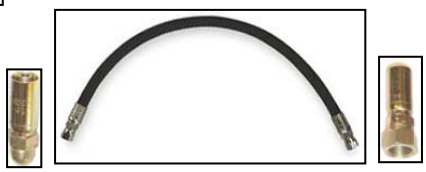


4.Pillow Blocks 2’’

6. Rubber Stop Assembly

Cylinder -w/Pins, Collars and Rear Mounts

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



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

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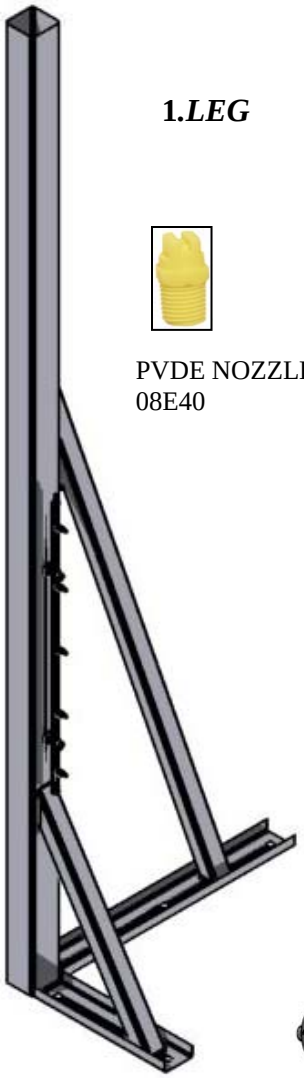
FREE STANDING WRAP AROUND, Model WA1

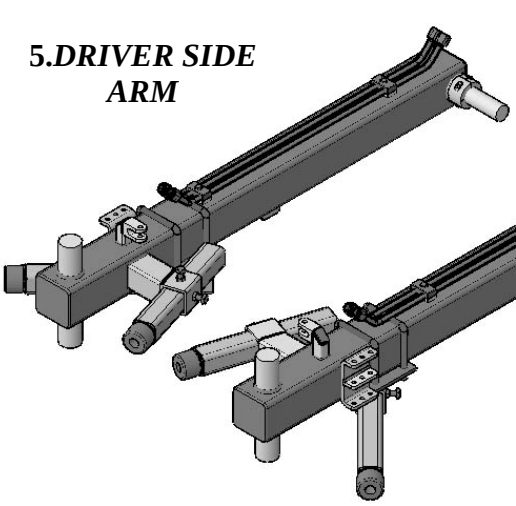
WRAP AROUND-PARTS

1.*LEG*



PVDE NOZZLE 1/4''
08E40

5.*DRIVER SIDE ARM*



7. *PASSENGER SIDE ARM*

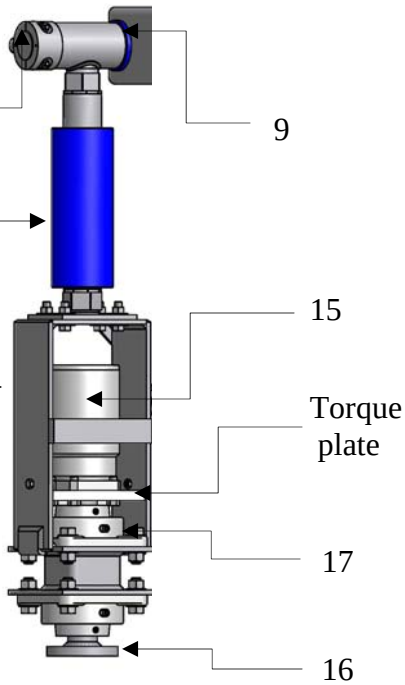
OPTIONS

Adjustable Lower Rubber Stop Arms (on Wrap Arms)

HYDRAULIC MOTOR

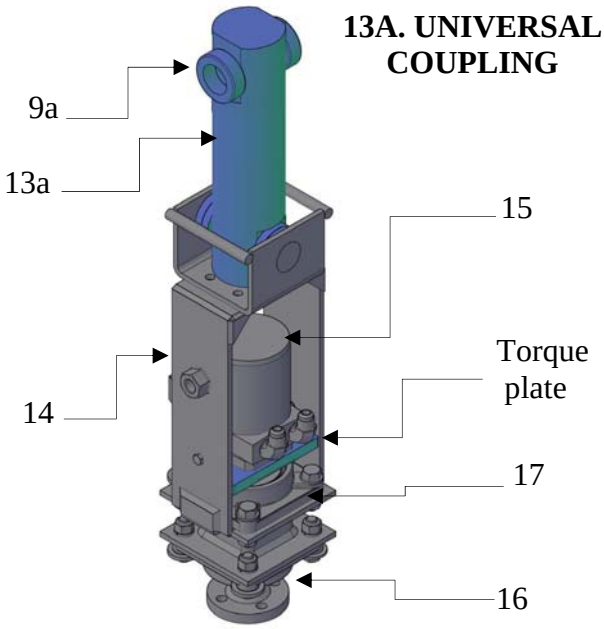
BRUSH SHAFT

Torque plate



13.FLEX COUPLING

13A. UNIVERSAL COUPLING



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ITEM	Description	PART NUMBER	QTY.
1	**DRIVER SIDE LEG**	WA1A	1
2	**PASSENGER SIDE LEG**	WA1B	1
3	**Z-CROSSBAR**	WA1C	1
-	Square Head Screw ½ ”-13x1½”lg. (for sleeves)	SQHS1213150	8
-	Hex Head Cap Screw 3/8”-16x2”lg. (fully threaded, for pillow block adj.	HHCS3816200F	8
4	**PILLOW BLOCK 2” UCP211-32**	WA1WB	4
-	Screw Fastener Set ½ ” (for pillow block):	-	8
-	Hex Head Cap Screw ½”-13x2¼”lg.	HHCS1213225	8
-	Flat Washer ½”I.D.x1¼”O.D.	FW12125	16
-	Split Lock Washer ½”	SLW1/2	8
-	Hex Nut ½”-13	HN1213	8
-	**DRIVER SIDE ARM ASSEMBLY:**	WA1D	1
5	Driver Side Arm **48**”lg.	WA1DA	1
6	Rubber Stop Arm Assembly:	WA1DB	2
	Stop Arm	WA1DBA	2
	Rubber Bumper	WA1DBB	2
	Screw Fastener Set 3/8” (for bumper):	-	2
	-Hex Head Cap Screw 3/8”-16x1¼”lg.	HHCS3816125	2
	-Flat Washer 3/8”I.D.x7/8”O.D.	FW38087	2
	-Hex Nut 3/8”-16	HN3816	2
6.1	ADJUSTABLE LOWER RUBBER STOP ARM (OPTION)	WA3DB-2639	1
	Square Head Screw 3/8”-16x ¾ ”lg. (for stop adjustment)	SQHS3816075	4
-	**PASSENGER SIDE ARM ASSEMBLY:**	WA1E	1
7	Passenger Side Arm **76**”lg.	WA1EA	1
8	Rubber Stop Arm Assembly	WA1DB	2
	Stop Arm	WA1DBA	2
	Rubber Bumper	WA1DBB	2
	Screw Fastener Set 3/8” (for bumper):	-	2
	Hex Head Cap Screw 3/8”-16x1¼”lg.	HHCS3816125	2
	Flat Washer 3/8”I.D.x7/8”O.D.	FW38087	2
	Hex Nut 3/8”-16	HN3816	2
8.1	ADJUSTABLE LOWER RUBBER STOP ARM (OPTION)	WA3DB-2639	1
	Square Head Screw 3/8”-16x ¾ ”lg. (for stop adjustment)	SQHS3816075	4
9	PLASTIC SPACER (for FLEX COUPLING)	WA11	2
9A	PLASTIC SPACER (for UNIVERSAL COUPLING)	WA11-0112	2
10	2-PIECE COLLAR 1½” (for FLEX COUPLING)	WA2J-2P	2
11	**SHOCK ABSORBER ASSEMBLY:**	WA1FA	2
-	Shock absorber Model MN32238	WA1FAA	2
-	UHMW Bushing 3/8”I.D.	WA1FA1	4
12	PIN Æ3/8”x6”lg.	WA1FB	4
-	COLLAR 3/8”	WA1FC	4
13	**FLEX COUPLING ASSEMBLY**	WA1H	2
	Welded Flex Coupling	WA1HA	2
	Wrap Cam ¾ ”I.D.	WA1HB	2
	UHMW Sleeve	WA1H1	2
	UHMW Bushing 1½”I.D	WA1H2	2

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FREE STANDING WRAP AROUND, Model WA1

ITEM	Description	PART No.	QTY.
13A	**UNIVERSAL COUPLING ASSEMBLY** (Optional)	WA2H	2
	UHMW Coupling	WA2H-0210	2
	UHMW Bushing 1 ½" I.D.	WA1H2	2
	Mounting Channel	WA2HC	2
	Shaft 1 ½" x6 ¼" LG	WA2HD	2
	Collar 1 ½"I.D. x 2 ½'' O.D. x 7/8" width	WA1J	2
	SCREW FASTENER SET 3/8"	-	8
	(connection of the flex coupling with the motor mount):		
	Hex Head Cap Screw 3/8"-16x ¾ "LG.	HHCS3816075	8
	Flat Washer 3/8"I.D.x7/8"I.D.	FW38087	8
	Hex Nut 3/8"-16	HN3816	8
-	**WRAP AROUND SHAFT ASSEMBLY:**	WA5K	2
14	Motor Mount	WA5KA	2
-	Motor Retaining Screw:	-	4
-	Hex Head Cap Screw 3/8"-16x ¾ "LG.	HHCS3816075	4
-	Nylon Lock Nut 3/8"-16	NLN3816	4
15	Hydraulic Motor, displacement 11.9 [cu.in./rev.], Parker TB0195FP100AAAB	WA1KM	2
-	Fitting 90° Elbow ½ "NPTMx ½ "JIC	SAE070202-8-8	4
-	Torque Plate	WA1K1	2
-	Hex Head Cap Screw 3/8"-16x ¾ "LG. (motor's fastener)	HHCS3816075	8
16	Brush Shaft Æ1½"x10½"lg.	WA5KB	2
17	4-bolt Bearing 1½" UCF208-24E	WA1KCB	4
-	Screw Fastener Set (for bearing):	-	16
-	Hex Head Cap Screw ½"-13x1¾"LG.	HHCS1213175	16
-	Flat Washer ½ "I.D.x1"O.D.	FW12100	16
-	Split Lock Washer ½"	SLW1/2	16
-	Hex Nut ½"-13	HN1213	16
18	**BRUSH ASSEMBLY** (design:5'' core, 72'' LG)	WA1M-5/10x72	2
-	**HYDRAULIC & WATER INSTALLATION:**	WA1L	-
-	Side water manifold assembly (on exit legs):	WA1LA	2
-	Water manifold (tubing 1"O.D. x 36"lg., w/4 water outlets 11" apart)	WA1LAA	2
-	Hollow hex plug ½"NPTM	SAE140109P-8	2
-	Barb ½"x ½ "NPTM	BRB1/2x1/2	2
-	Nozzle ¼"NPTM	NZ1/4	10
-	Water Hose ½"I.D. (braid reinforced polyurethane tubin	-	
-	Pipe Clamp ¾", for water hose and side water manifolds (w/screw fasteners ¼")	PPP3/4	10
	Hydraulic tube assemblies:	-	
-	Hydraulic Tubes ½ "O.D.xW.035" stainless steel TP304/TP304L ASTM A269	-	
-	Tube support Sleeves ½ "JIC	SAE070115-8	
-	Nuts ½"J	SAE070110-8	
	Hydraulic hose assembly:	WA1LB	8
-	Hydraulic hose 3/8"I.D.x34"lg., thermoplastic, "Aeroquip" FC372-06	SAE100R7-06x34	8
-	Crimp fitting SAE 37° JIC swivel (female) "Aeroquip"	FC5810-0806	4
	(or Catching Fluidpower-"Parker")	(10655-8-6)	(4)
-	Crimp fitting SAE 37° JIC male flare "Aeroquip"	FC5807-0806	12
	(or Catching Fluidpower-"Par	(10355-8-6)	(12)
-	Damping clamp ½", for hydraulic tubes (w/screw fasteners ¼")	DMP1/2	8

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Figure 2

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.

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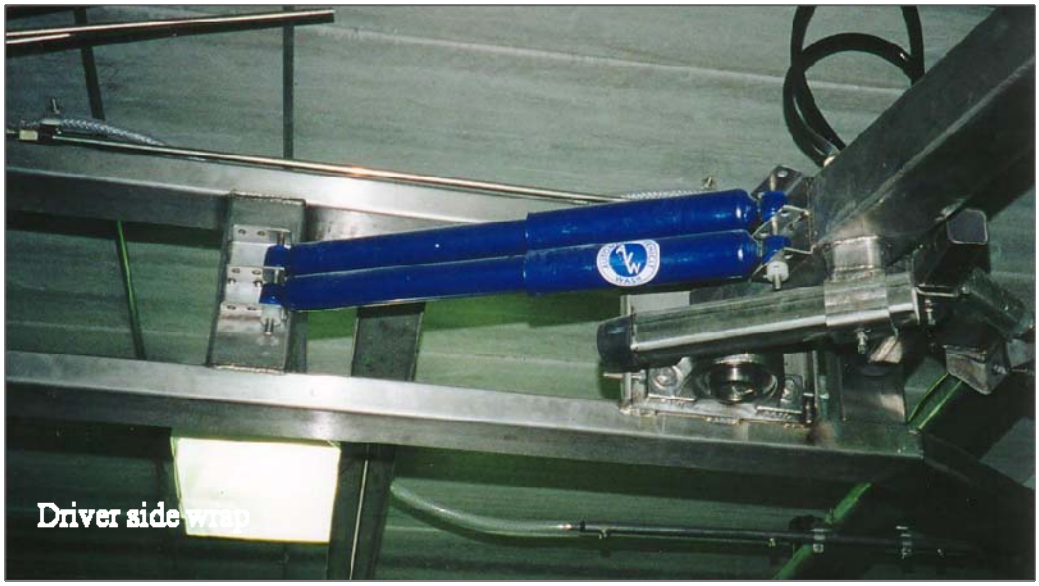

Figure 2

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.

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