MACNEIL

GREAT IDEAS • GREAT RESULTS

RS500 SONIC

DOCUMENT #EPL-RS500

MacNeil Wash Systems- Parts List

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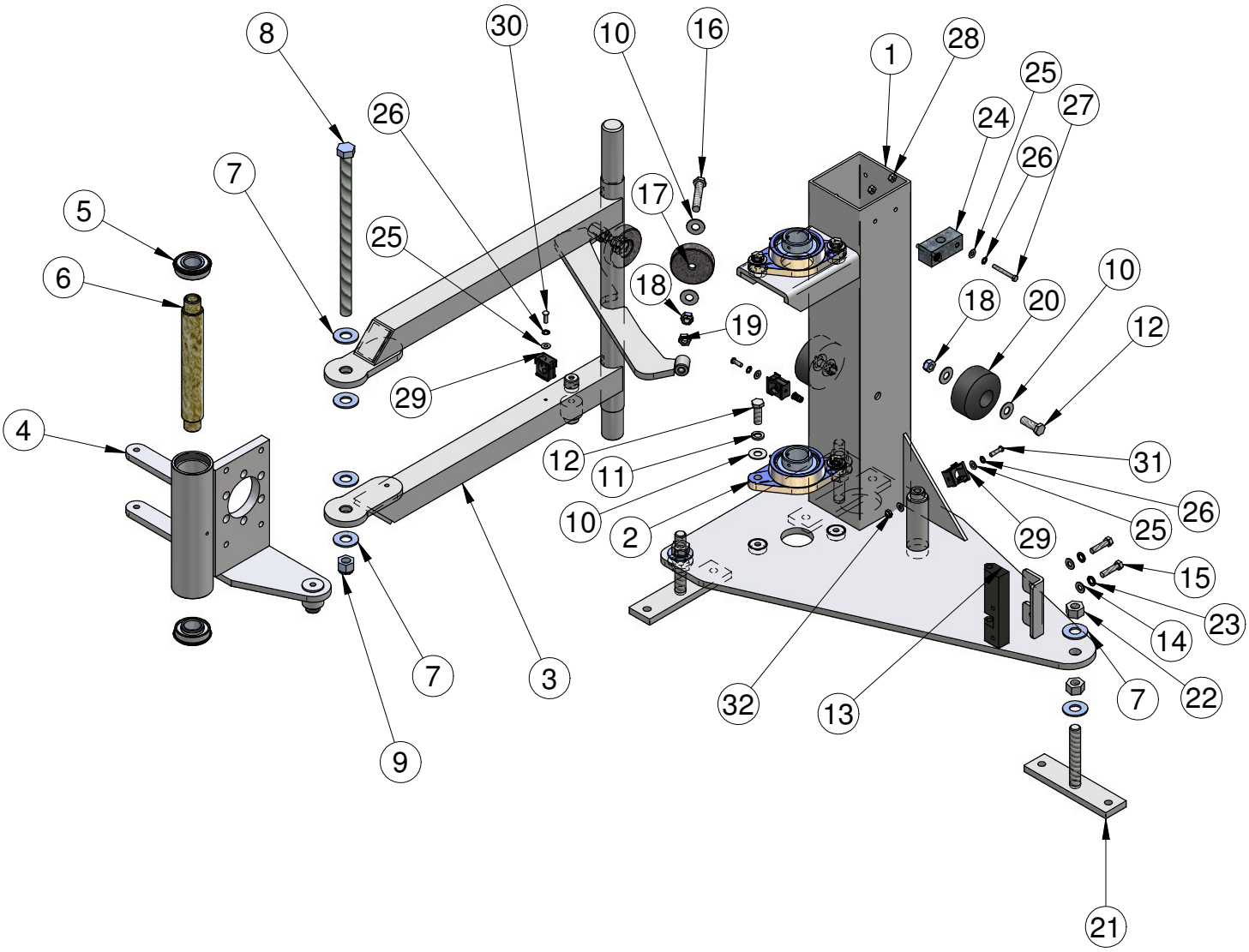
90 Welham Road, Barrie, Ontario 705-722-7649

TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 1 OF 16	

RS500 SONIC
DOCUMENT #EPL-RS500



90 Welham Road, Barrie, Ontario 705-722-7649

TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 2 OF 16	

MacNeil Wash Systems- Parts List

RS500 SONIC
DOCUMENT #EPL-RS500

REF.	DESCRIPTION	PART NUMBER	QTY
1	RS500 MAIN POST LH SILVER GREY	59-500-00-SG	1
2	BEARING FLANGE 1-1/2" 2-HOLE SS	90-190-00-PP	2
3	RS500 MAIN ARM SHORT LH SILVER GREY	59-100-00-SG	1
4	RS500 MOTOR MOUNT SS LH SILVER GRAY	59-300-00-SG	1
5	BEARING BALL CSA206-30MM-NR	90-195-00-PP	2
6	RS500 SPINDLE 11"LG ZINC PLATED	59-000-05-ZN	1
7	WSHR SS FLAT THRUST 3/4"	80-612-000-SI	10
8	HHCS PL 3/4"-10 x 13 1/2"	82-512-216-ZIC	1
9	NUT SS NYLOCK 3/4"-10	85-012-000-SIC	1
10	FLAT WASHER SS 1/2"	80-108-000-SI	12
11	LOCK WASHER SS 1/2"	80-908-000-SI	4
12	HHCS SS 1/2"-13 x 1-1/2"	82-508-024-SIC	6
13	RS500 SHOCK CYL END MOUNT AL BLK ANO'D	59-500-07-BK	1
14	WASHER FLAT 3/8" SS	80-106-000-SI	2
15	HHCS SS 3/8"-16 X 1-1/2" FULL THREAD	82-606-024-SIC	2
16	HHCS FL-THD SS 1/2"-13 x 3"	82-608-048-SIC	2
17	RS500 BUMPER STOP DISK DIA.3" x 3/4" ALUM	59-000-04-BK	2
18	NUT SS NYLOCK 1/2"-13	85-008-000-SIC	4
19	NUT SS JAM 1/2"-13	84-108-000-SIC	2
20	BUMPER POLY BLACK	40-370-00-PP	2
21	ADJ. FOOT 5-1/4" X 8" BASE SS RS500 WELDMENT	10-008-00-MP	3
22	NUT SS 3/4"-10	84-012-000-SIC	6
23	LOCK WASHER 3/8" SS	80-906-000-SI	2
24	RS500 WATER DISTRIBUTION BLOCK BLK ANO'D	59-550-08-BK	1
25	WSHR SS FLAT SAE 1/4"	80-204-000-SI	6
26	WASHER SS LOCK 1/4"	80-904-000-SI	5
27	HHCS SS 1/4"-20 x 2"	82-504-032-SIC	2
28	NUT SS 1/4"-20	84-004-000-SIC	2
29	PMA SUPPORT U CLIP w/CAP FH-16	90-068-04-PP	3
30	SCREW SS BTN-HD 1/4"-20 X 3/4"	83-204-012-SIC	2
31	SCREW SS BTN-HD 1/4"-20 X 1"	83-204-016-SIC	1
32	NUT SS NYLOCK 1/4"-20	85-004-000-SIC	1
33*	RIVNUT 1/4-20 SERIES STEEL A-L	85-904-000-ZIC	1

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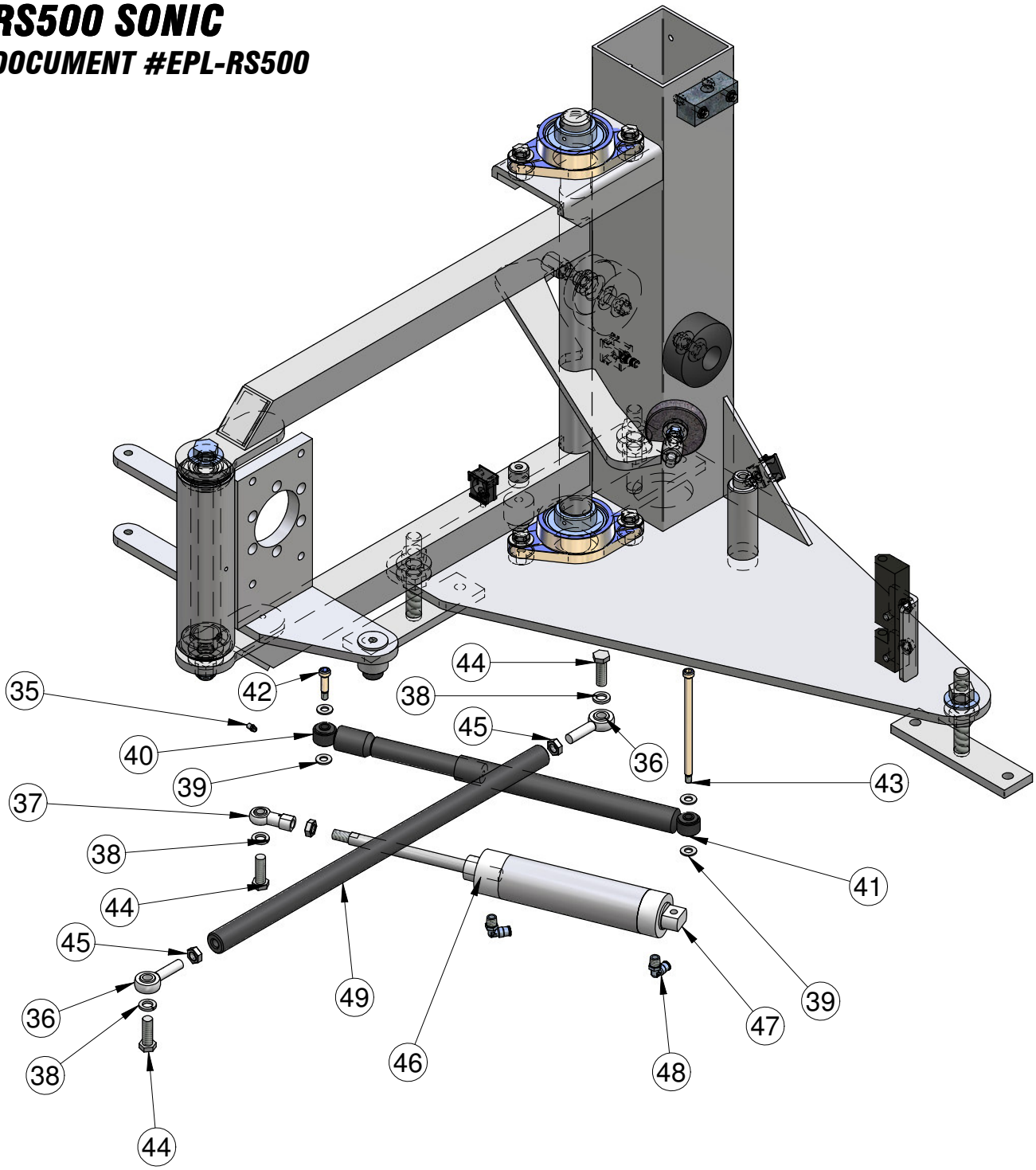
TITLE	RS500 SONIC WHEEL WASHER ASSEMBLY	
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 3 OF 16	

MacNeil Wash Systems- Parts List

RS500 SONIC

DOCUMENT #EPL-RS500



MacNeil Wash Systems- Parts List

90 Welham Road, Barrie, Ontario 705-722-7649

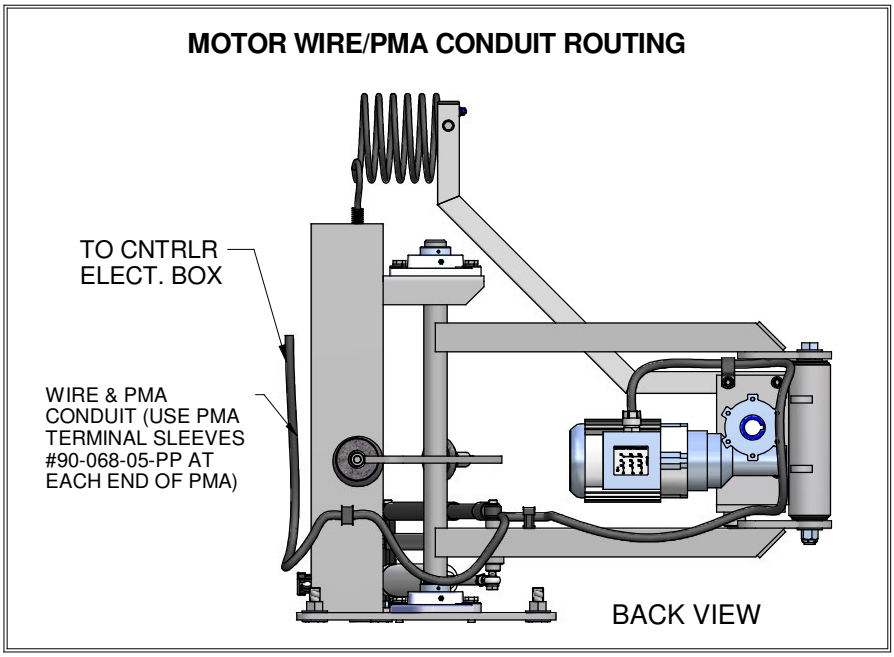
TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 4 OF 16	

RS500 SONIC
DOCUMENT #EPL-RS500

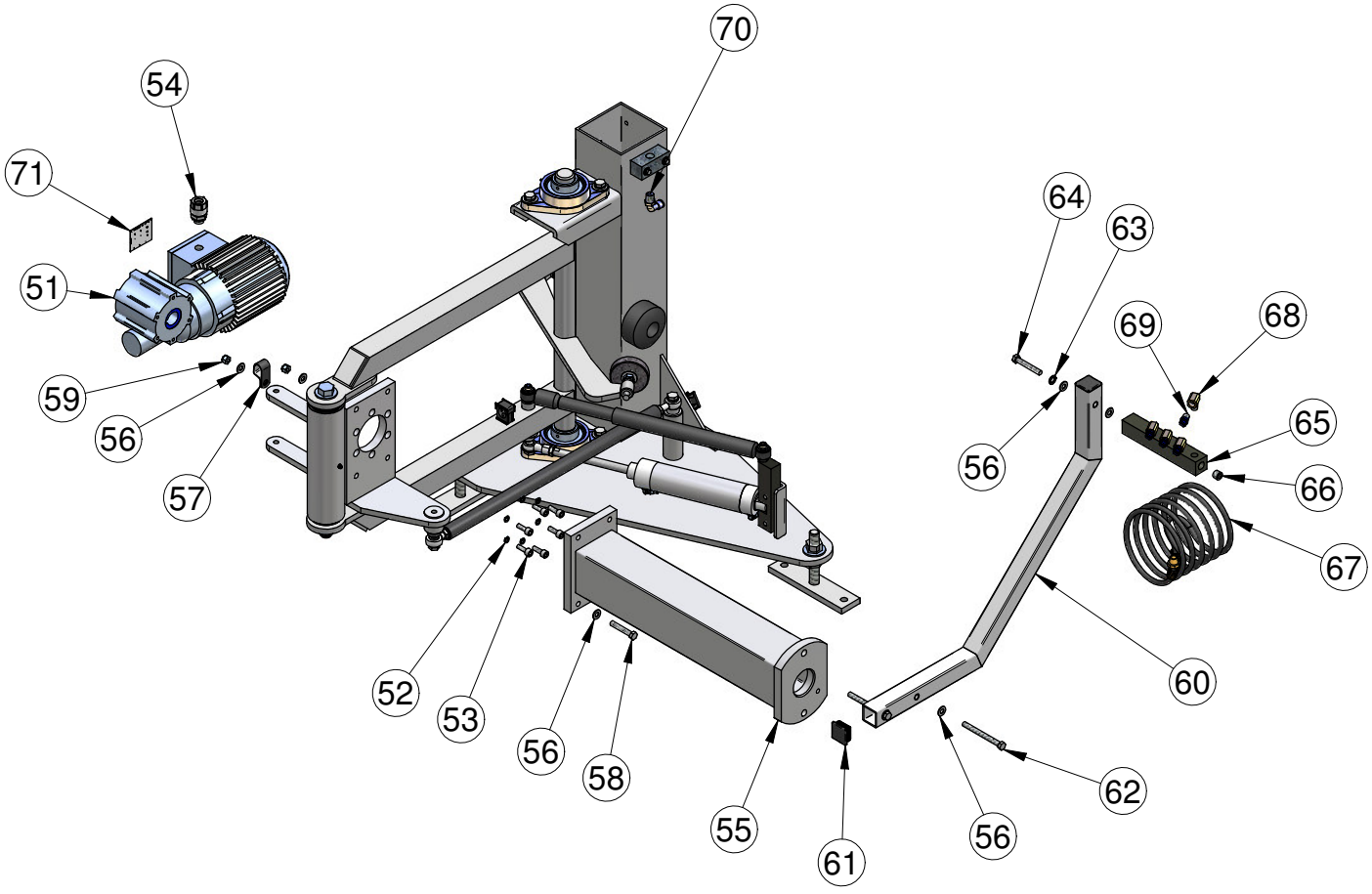
REF.	DESCRIPTION	PART NUMBER	QTY
34*	RS500 LH FRAME ASSY STAGE 1	59-000-000-LH	1
35	FTG GREASE 1/4"-28 45 DEG.	44-259-01-PP	1
36	ROD END TRE8-N-SS 1/2"M c/w GR.NPL 10/32	90-151-03-PP	2
37	ROD END TR8-N-SS 1/2"F-20 c/wGR NPL10/32	90-151-02-PP	1
38	LOCK WASHER SS 1/2"	80-908-000-SI	3
39	WASHER FLAT 3/8" SS	80-106-000-SI	4
40	BOGE SHOCK ABSORBER PC1	90-100-50-PP-PC1	1
41	SHOCK ABSORBER - BOGE 22-794-9	90-100-50-PP	1
42	SHSS SS DIA.3/8" x 1" (5/16"-18UNC)	82-406-016-SIC	1
43	SHSS SS Dia.3/8" X 6"LG (5/16"-18UNC)	82-406-096-SIC	1
44	HHCS SS 1/2"-13 x 1-1/2"	82-508-024-SIC	3
45	NUT SS JAM 1/2"-20	84-108-000-SIF	3
46	CYL AIR COMPOSITE 2" BORE 6" STROKE	90-100-51-PP-PISTON	1
47	CYL AIR COMPOSITE 2" BORE 6" STROKE	90-100-51-PP	1
48	FTG ELB SWV 1/4"TBE-1/4"NPT 6520-04-04	90-223-06-PP	2
49	RS500 TIE ROD LH 23"LG ALUM., BLACK ANODIZED	59-000-01-BK	1

RS500 SONIC
DOCUMENT #EPL-RS500

MOTOR WIRE/PMA CONDUIT ROUTING



SEE MOTOR WIRING ON NEXT PAGE



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TITLE	RS500 SONIC WHEEL WASHER ASSEMBLY	
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 6 OF 16	

MacNeil Wash Systems- Parts List

RS500 SONIC
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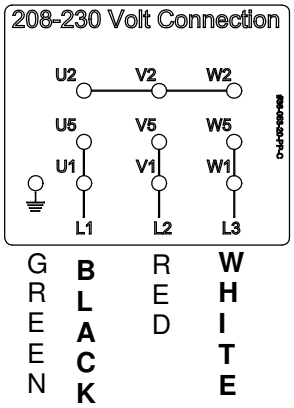
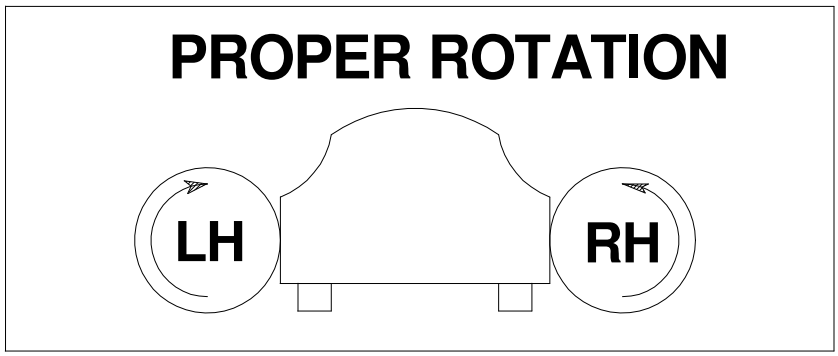
MOTOR WIRING & ASSY REQMN'T



INSIDE MOTOR JUNCTION BOX,
ALL WIRE ENDS
TO HAVE 6" LONG LEADS w/ #10
RING TERMINAL CONNECTORS
#70-015-02-PP (QTY 4)



90 Welham Road, Barrie, Ontario 705-722-7649

TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 7 OF 16	

MacNeil Wash Systems- Parts List

RS500 SONIC
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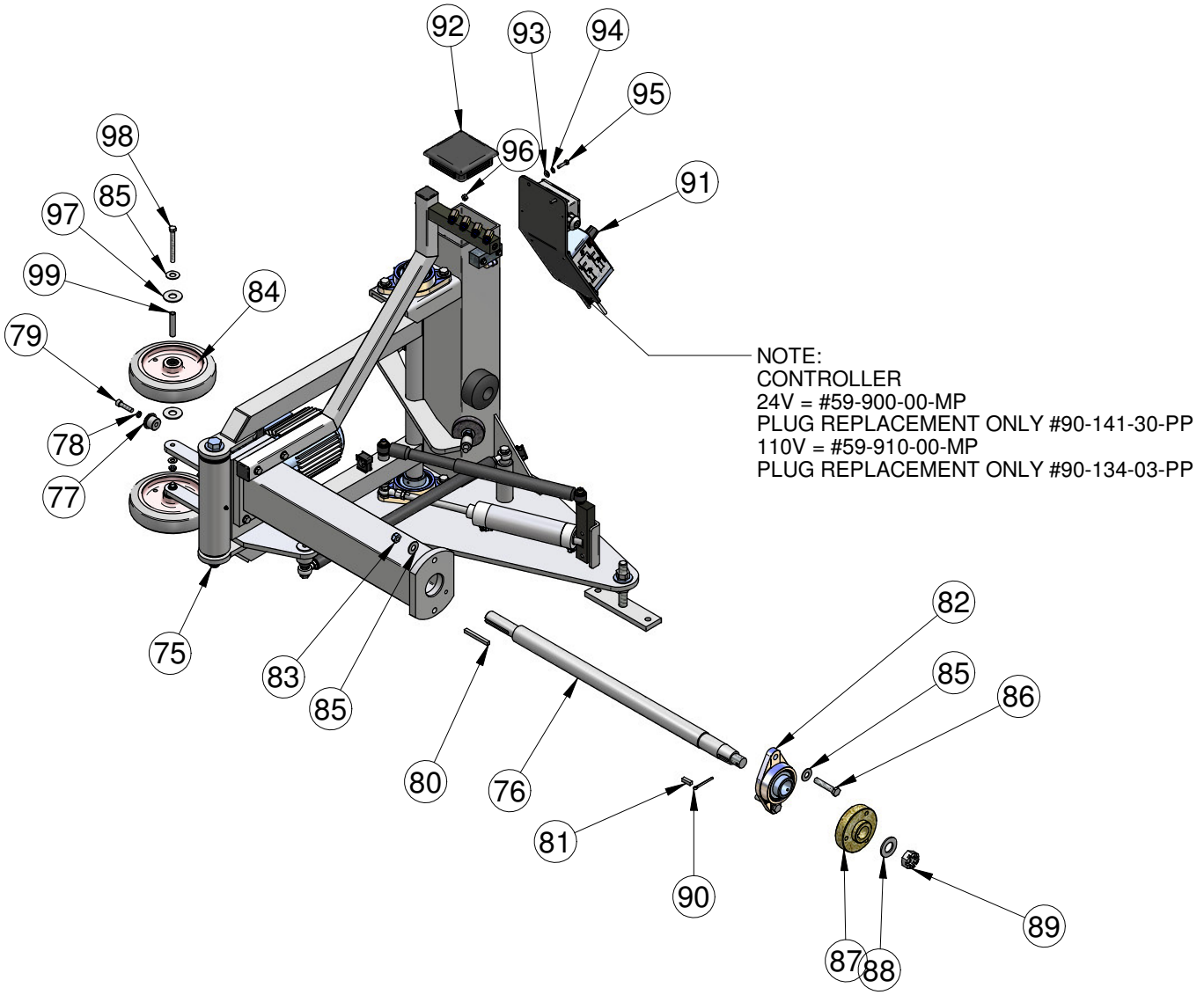
REF.	DESCRIPTION	PART NUMBER	QTY
50*	RS500 STAGE2: LH SHOCK/CYL/TIE ROD ASSY	59-000-000-LH	1
51	FLENDER ELEC MTR 90 DEG ROT. MACH'D JNCTN BX	70-700-20-PP	1
52	WSHR SS LOCK M8 HIGH COLLAR	81-208-000-SM	6
53	SHCS SS M8 X 25mm	82-708-025-SMC	6
54	STRAIN RELIEF 1/2" c/w NUT&ORING O5534W	90-055-04-PP	1
55	RS500 BRUSH ARM 23 5/8" LG SILVER GREY	59-050-00-SG	1
56	WASHER FLAT 3/8" SS	80-106-000-SI	10
57	CLAMP 1/2" WIRE 086-554 FOR 3/8" BOLT	70-175-00-PP	1
58	HHCS SS 3/8"-16 x 2-1/4"	82-506-036-SIC	2
59	NUT SS NYLOCK 3/8"-16	85-006-000-SIC	4
60	RS500 WATER MNFLD STAND AL SILVER GREY	59-550-00-SG	1
61	INSERT GLIDE 1-1/2" x 1-1/2" 10-14GA. (SQR-15-1014)	26-016-00-PP	2
62	HHCS SS 3/8"-16 x 4"	82-506-064-SIC	2
63	LOCK WASHER 3/8" SS	80-906-000-SI	1
64	HHCS SS 3/8"-16 x 2-1/2"	82-506-040-SIC	1
65	RS500 WATER MANIFOLD 4-PORT 1/4"NPT AL BLKANOD	59-550-10-BK	1
66	FTG PLUG BR CNTRSNK SOC HD 3/8"NPT 118-C	90-052-06-PP	1
67	SPIRAL 3/8"TBE ASSY BLK w/ 2-3/8"NPT FTGS X 6'LG	95-059-01-PP	1
68	FTG ELB STREET 1/4"NPTM X 1/4" NPTF 90DEG	90-212-06-PP	4
69	NOZZLE TIP PLASTIC 1/4"NPT 10E00	10-250-07-PP	4
70	ELBOW SWV 3/8"NPT X 3/8" TBE	90-225-00-PP	1
71	DECAL 'MOTOR CONNECTION 208-230 VOLT'	36-053-20-PP	1
72*	PMA FLEX CONDUIT O.D. 21.2MM X 1"	90-068-01-PP	1
73*	CNCTR RING TERMINAL ID3/16" 16-14 WT-93	70-015-02-PP	4
74*	WIRE BLK 14 AWG - 4 CONDUCTOR x 100"	33-600-40-5BK	1

RS500 SONIC
DOCUMENT #EPL-RS500



MacNeil Wash Systems- Parts List

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90 Welham Road, Barrie, Ontario 705-722-7649

TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 9 OF 16	

RS500 SONIC
DOCUMENT #EPL-RS500

REF.	DESCRIPTION	PART NUMBER	QTY
75	RS500 STAGE3: LH MOTOR/ARM STAGE3	59-000-000-LH	1
76	RS500 ELECTRIC DRIVE SHAFT 33" SS	59-070-00-MP	1
77	GEAR BOX RETAINING BUSHING SS	53-710-04-PP	1
78	WSHR SS LOCK 3/8" HIGH COLLAR	81-206-000-SI	1
79	SHCS SS 3/8-16 X 1-1/2"	82-706-024-SIC	1
80	KEY SQR 8mm x 3"LG	53-710-07-PP	1
81	KEY SQR 8mm x 1" LG	53-710-08-PP	1
82	BEARING FLANGE 1-1/2" 2-HOLE SS	90-190-00-PP	1
83	NUT SS NYLOCK 1/2"-13	85-008-000-SIC	2
84	WHEEL 8" Dia. x 2" MACHINED	90-050-00-MP	2
85	FLAT WASHER SS 1/2"	80-108-000-SI	6
86	HHCS SS 1/2"-13 x 2-1/2"	82-508-040-SIC	2
87	HUB-ELECTRIC DRIVE SHAFT 4-1/2"	56-575-00-ZN	1
88	WASHER FLAT SAE SS 1" ID X 2" OD X 0.134" THK NOM.	80-216-000-SI	1
89	NUT (BARE) CASTLE 1"-14 UNF	84-216-000-BIF	1
90	COTTER PIN SS 3/16" x 2"	86-003-032-SI	1
91	RS500 AIR CONTROL ASSEMBLY 24VDC w/ BRKT	59-900-00-MP	1
92	END CAP 5" x 5" TUBE SQR-50-07 11A	65-353-00-PP	1
93	WASHER SS FLAT 1/4" (0.056"/0.063" THK)	80-104-000-SI	2
94	WASHER SS LOCK 1/4"	80-904-000-SI	2
95	HHCS SS 1/4"-20 x 1"	82-504-016-SIC	2
96	NUT SS 1/4"-20	84-004-000-SIC	2
97	FLAT WASHER 5/8" SS THICK	80-110-001-SI	4
98	HHCS SS 3/8"-16 x 3-1/2"	82-506-056-SIC	2
99	WHEEL INSERT SS 2-1/2" LG OD 1/2"	95-059-03-PP	2
100*	WASHER FLAT 3/8" SS	80-106-000-SI	2
101*	NUT SS NYLOCK 3/8"-16	85-006-001-SIC	2

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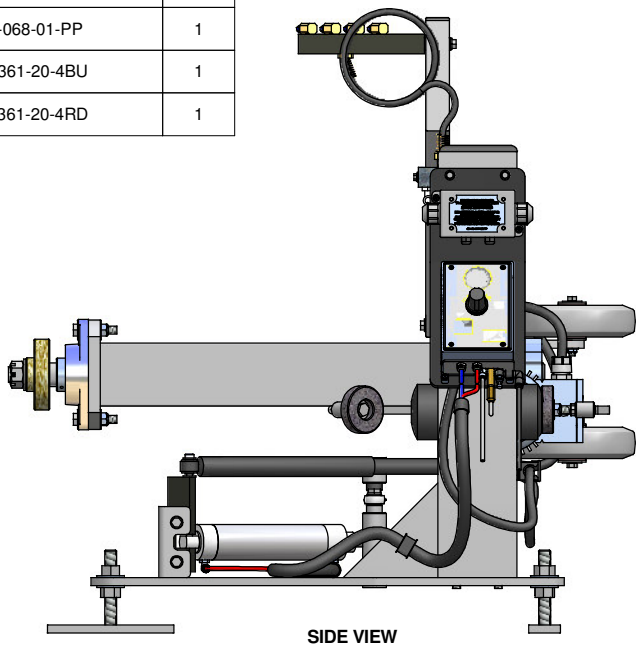
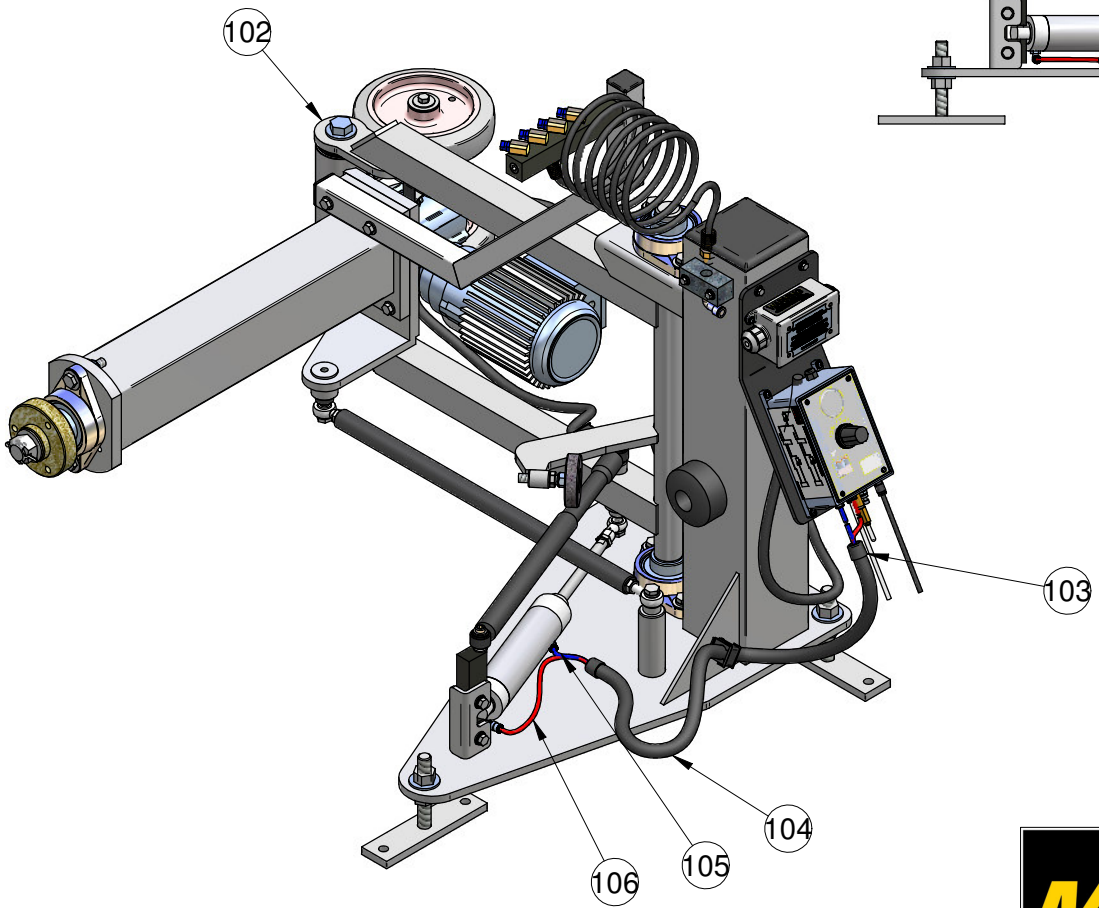
TITLE	RS500 SONIC WHEEL WASHER ASSEMBLY	
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 10 OF 16	

RS500 SONIC
DOCUMENT #EPL-RS500

REF.	DESCRIPTION	PART NUMBER	QTY
102	RS500 STAGE 4: LH SHAFT/WHEELS/CTRLR	59-000-000-LH	1
103	PMA CONDUIT END SLEEVE FOR 21mm CONDUIT	90-068-05-PP	2
104	PMA CONDUIT O.D. 21.2mm x 1" x 30"	90-068-01-PP	1
105	TUBE NYLON 1/4" BLUE x 35"	33-361-20-4BU	1
106	TUBE NYLON 1/4" RED x 35"	33-361-20-4RD	1



SIDE VIEW



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TITLE	RS500 SONIC WHEEL WASHER ASSEMBLY	
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
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RS500 SONIC
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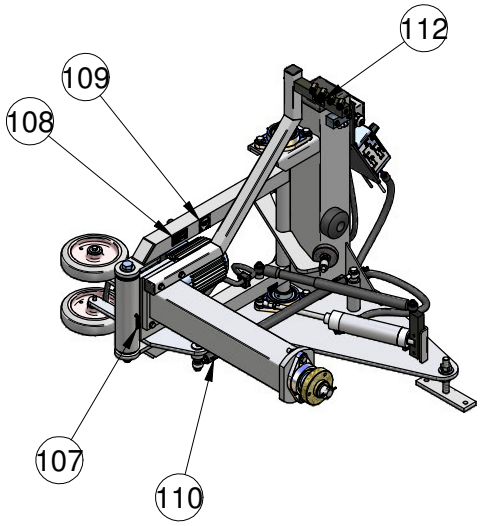
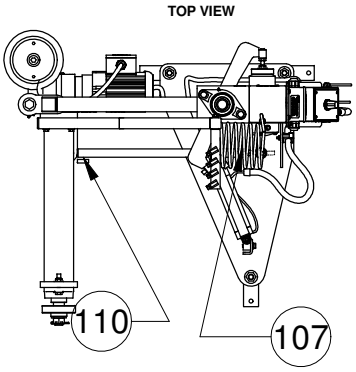
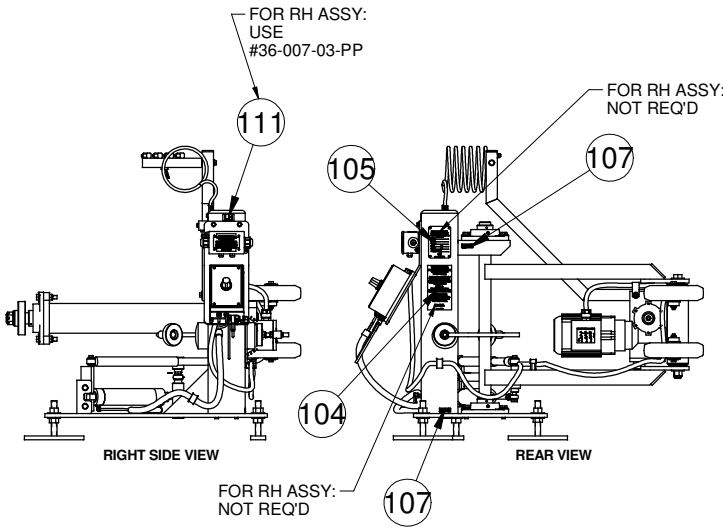
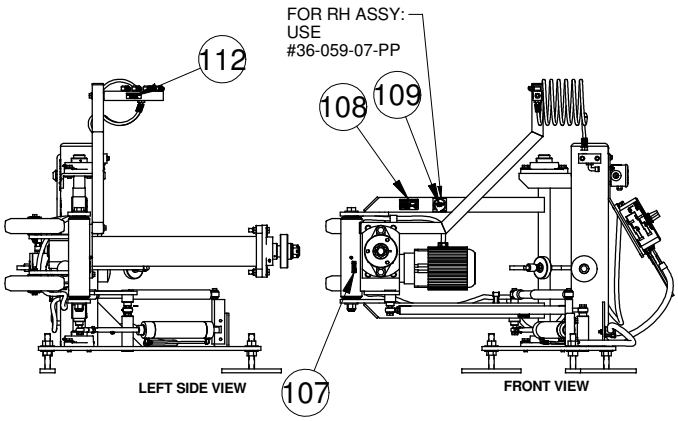
REF.	DESCRIPTION	PART NUMBER	QTY
103*	RS500 STAGE 5: PLUMBING & WIRING	59-000-000-LH	1
104	DECAL "POWDERCOAT WARNING" 6" x 3-1/2"	36-012-00-PP	1
105	MACNEIL SERIAL ID TAG -NEW LOGO	36-900-00-PP	1
106*	RIVET AL 1/8"Dia PR-100-AI	87-002-000-AI	4
107	DECAL 'GREASE MONTHLY'	36-016-04-PP	4
108	DECAL 'PINCH POINT' 2-1/2" x 1-3/8" BLK ON YL	36-905-01-PP	1
109	DECAL ROTATION CCW W/ ARROW	36-059-08-PP	1
110	DECAL 'GREASE MONTHLY'	36-016-05-PP	2
111	DECAL 'LH' 1-1/2" x 7/8"	36-007-02-PP	1
112	DECAL 'CLEAN NOZZLES REGULARLY'	36-059-06-PP	1









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PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 12 OF 16	

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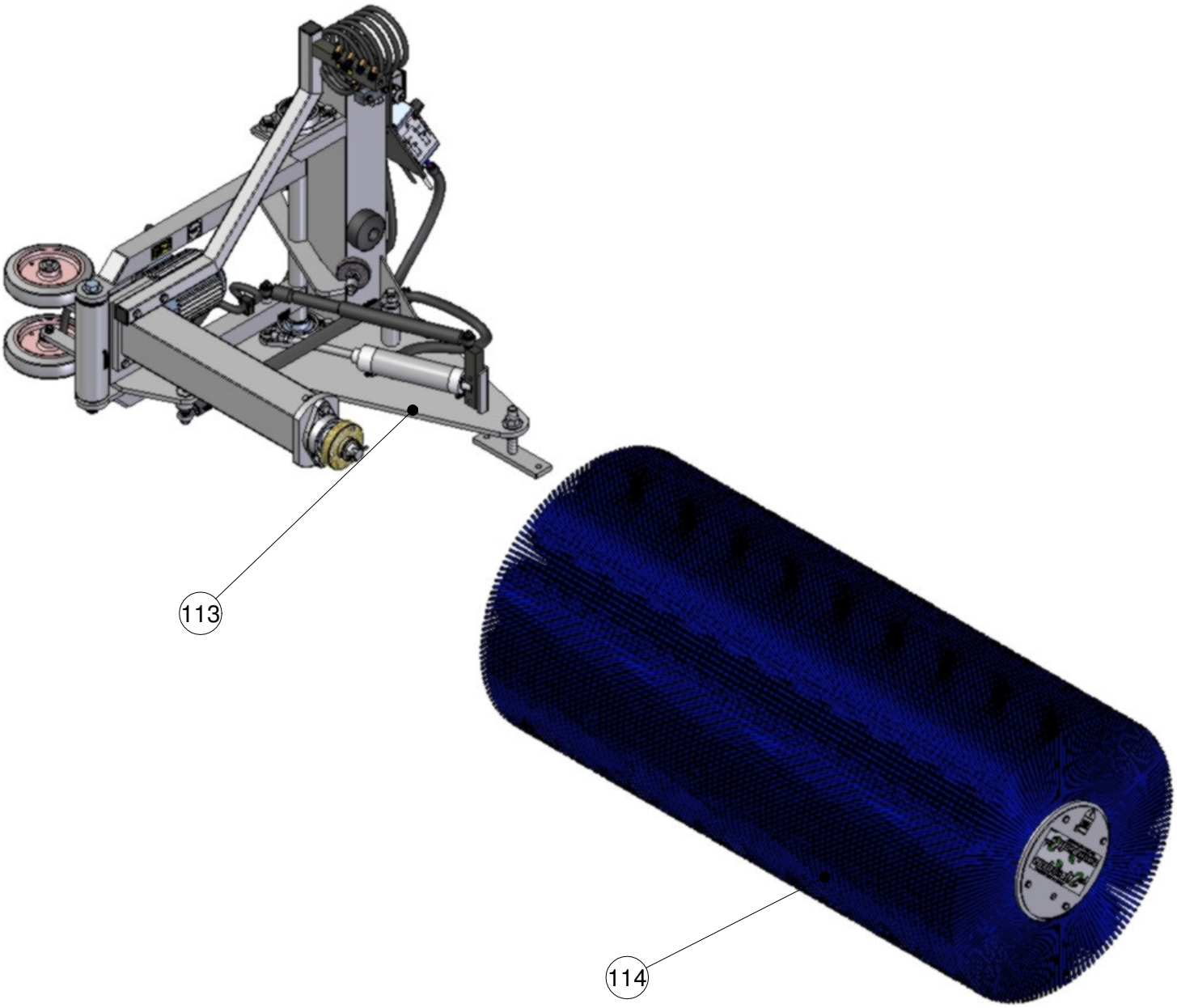
REF.	DESCRIPTION	PART NUMBER	QTY
113*	RS500 STAGE 6: DECALS	59-000-000-LH	1
114*	RS500 ELECTRIC HUB/CORE/FOAM ASSY	22-059-10-_MP	1



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MacNeil Wash Systems- Parts List

RS500 SONIC

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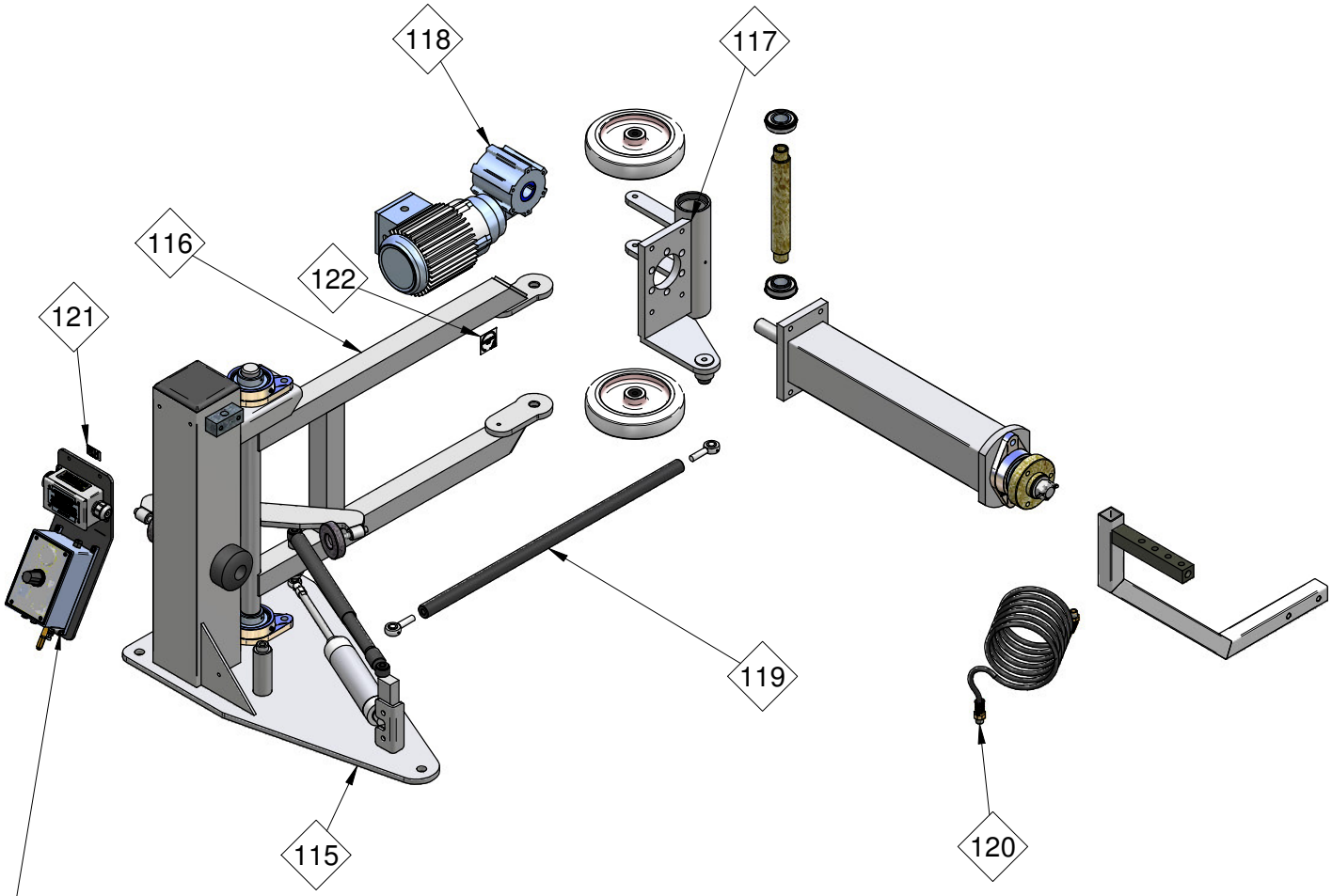
RH ALTERNATE

COMPONENTS SHOWN

REF.	DESCRIPTION	PART NUMBER	QTY
115	RS500 MAIN POST RH SILVER GREY	59-600-00-MP	1
116	RS500 MAIN LONG ARM RH	59-200-00-SG	1
117	RS500 MOTOR MOUNT SS RH PC SILVER GRAY	59-400-00-SG	1
118	FLENDER ELEC MTR 270 DEG ROT. MACH'D JNCTN BX	70-700-20-PP	1
119	RS500 TIE ROD RH 29"LG x 1-1/8"Dia. ALUM.	59-000-02-MP	1
120	SPIRAL 3/8"TBE ASSY BLK w/ 2-3/8"NPT FTGS X 9'LG	95-059-02-PP	1
121	DECAL 'RH' 1-1/2" x 7/8"	36-007-03-PP	1
122	DECAL ROTATION CW W/ ARROW	36-059-07-PP	1



CONTROLLER:
24V = #59-900-00-MP
PLUG REPLACEMENT ONLY #90-141-30-PP
110V = #59-910-00-MP
PLUG REPLACEMENT ONLY #90-134-03-PP

PLEASE NOTE:
ITEMS BALLOONED WITH A DIAMOND SHAPE, ARE THE ALTERNATE COMPONENTS FOR THE RH RS-500 BRUSH. ALL OTHER ASSEMBLY COMPONENTS ARE UNIVERSAL TO BOTH SIDES OF THE BRUSH ASSEMBLY.

SPECIAL NOTE:
FOR FOAM BRUSH CONFIGURATION, SEE DWG 'RS500-FOAM-COLOUR.

REQUIREMENT FOR PMA CONDUIT #90-068-01-PP X 1";
LH = 90", RH = 102"
REQUIREMENT FOR WIRE 4-COND #33-600-40-5BK X 1";
LH = 100", RH = 110"

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TITLE: RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO: 59-000-000-LH	DWG NO: 59-000-000-LH	REV: C
DATE: JUNE 20, 2005	SHEET 14 OF 16	

RS500 SONIC
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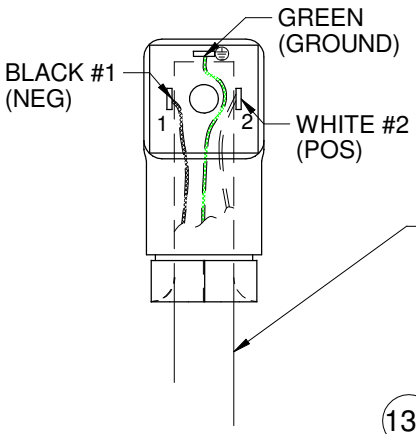
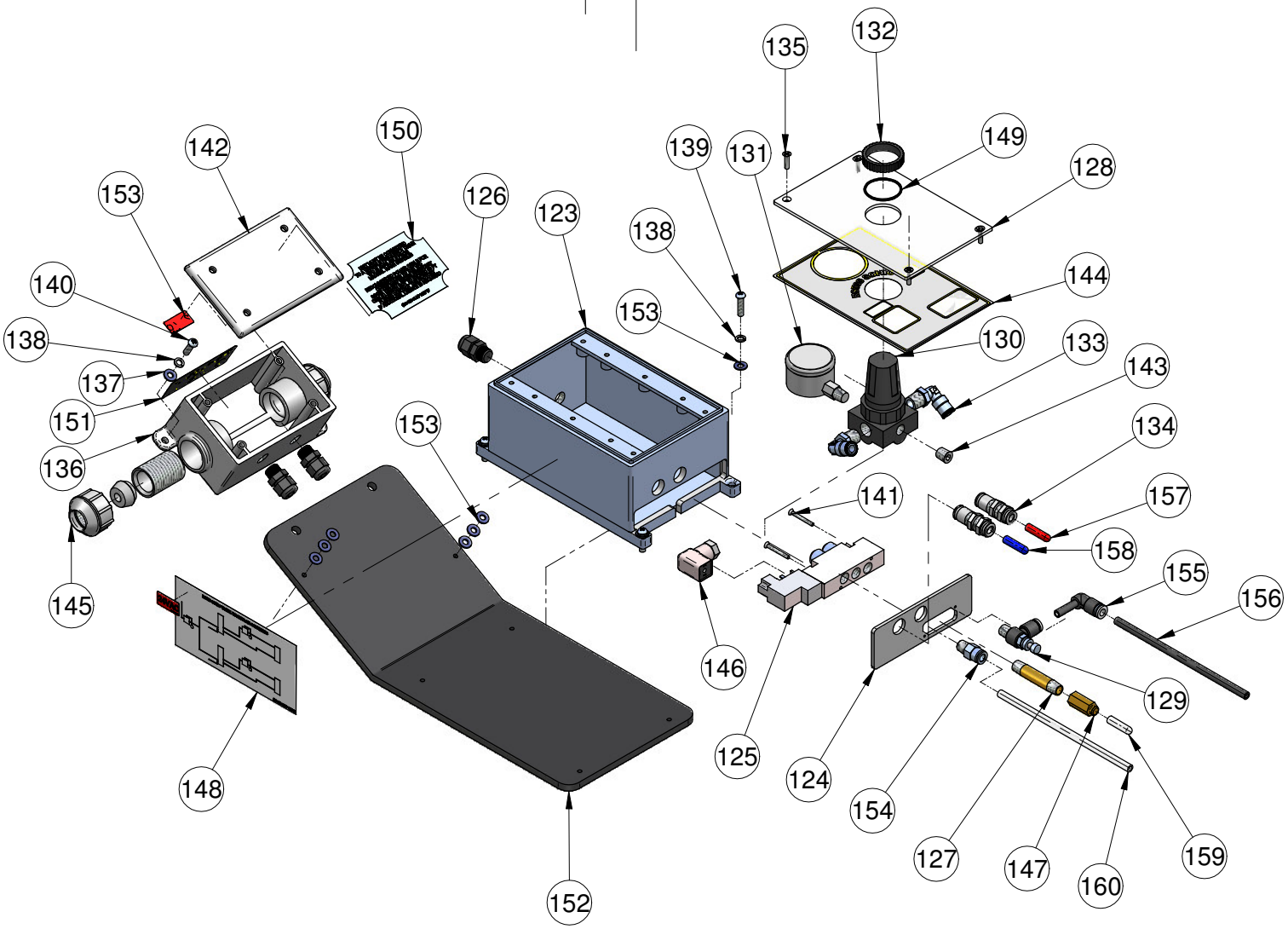
DIN PLUG
WIRING TERMINAL DETAIL



APPLY DIELECTRIC GREASE TO WIRE CONNECTIONS BEFORE RE-ASSEMBLY OF PLUG.
APPLY DIELECTRIC GREASE TO FACE OF PLUG BEFORE CONNECTING TO SOLENOID.



CONTROLLER REPLACEMENTS:
24V ASSY: #59-900-00-MP
DIN PLUG ONLY #90-141-30-PP

110V ASSY: #59-910-00-MP
DIN PLUG ONLY #90-134-03-PP

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90 Welham Road, Barrie, Ontario 705-722-7649

TITLE RS500 SONIC WHEEL WASHER ASSEMBLY		
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
DATE: JUNE 20, 2005	SHEET 15 OF 16	

MacNeil Wash Systems- Parts List

RS500 SONIC
DOCUMENT #EPL-RS500

REF.	DESCRIPTION	PART NUMBER	QTY
157	1/4" NYLON TUBE RED 1" PLUG	33-361-20-4RD	1
158	1/4" NYLON TUBE BLUE 1" PLUG	33-361-20-4BU	1
159	1/4" NYLON TUBE CLEAR 1" PLUG	33-361-20-4CL	1
160	1/4" NYLON TUBE CLEAR 6"	33-361-20-4CL	1
161*	WIRE 3-COND-18AWG-16 STRND BLACK x 20"	33-600-41-5BK	1
162*	1/4" PVC TUBE CLEAR x 30"	33-361-84-6CL	1

REF.	DESCRIPTION	PART NUMBER	QTY
123	RS500 AIR CONTROL BOX MACH'D	59-900-01-MP	1
124	RS500 VALVE MTG PLATE SS MACHINED	59-900-02-PP	1
125	VALVE SMC 24 VAC SY5120-BDZ-N7T	90-141-31-PP	1
126	STRAIN RELIEF 1/4", c/w nut 3207	44-584-08-PP	3
127	FTG NIPPLE LONG 1/8"NPT x 1-1/2" 113-A1-1/2	90-208-15-PP	1
128	RS500 JUNCTION BOX LID CLR LEXAN MACHD	59-900-04-PP	1
129	THROTTLE VALVE 1/8"NPT-1/4"TBE NKLPLTRING	90-159-01-PP	1
130	AIR REGULATOR WATTS 0-60PSI MODEL R25-02B	90-110-01-PP	1
131	AIR PRESSURE GAUGE 0-60 PSI BOTTOM MNT 1/8MPT	90-060-01-PP	1
132	NUT PLASTIC REGULATOR R05x51	90-115-00-PP	1
133	FTG ELB SWV 1/4"TBE-1/4"NPT 6520-04-04	90-223-06-PP	2
134	FTG BULKHD AIR 1/4"-1/4"TBE 6590-04-00	90-005-01-PP	2
135	FLAT HEAD PHL SS #6-32 X 1/2"	83-606-008-SNC	4
136	RS500 ELEC JUNCTION BOX MACH'D	59-900-06-MP	1
137	WASHER FLAT SS #10	80-110-000-SN	12
138	LOCK WASHER #10 S.S.	80-910-000-SN	6
139	SCREW PHL PAN-HD SS #10-24 x 3/4"	83-510-012-SNC	4
140	SCREW PHL PAN-HD SS #10-24 x 5/8"	83-510-010-SNC	2
141	FLAT HEAD PHL SS 4-40 X 1"	83-604-016-SNC	2
142	JUNCTION BOX COVER c/w GASKET BRC-15	70-201-00-PP	1
143	PLUG CNTRSUNK HEX 1/8" NPT	90-062-00-PP	1
144	DECAL RS500 AIR CONTROL COVER	36-059-00-PP	1
145	STRAIN RELIEF KIT SRC-15 THRD-SPIGOT	70-900-00-PP	2
146	VALVE SMC 24 VAC-DIN PLUG ONLY	c/w SOLENOID	1
147	FTG CNCTR SS 1/8"F-NPT-1/4"TBE	90-025-02-PP	1
148	RS500 AIR SCHEMATIC	36-059-02-PP	1
149	BACK-UP O-RING 1-3/16" ID x 1-7/16 OD x.04T	90-460-01-PP	1
150	ELECTRICAL BOX VFD CONNECTION LABEL	36-040-01-PP	1
151	DECAL 'WARNING READ JUNCTION BOX COVER'	36-040-02-PP	1
152	RS500 AIR CTRL MTG PLATE ALUM BLK ANO'D	59-900-03-BK	1
153*	DECAL '24VAC'	36-059-24-PP	2
154	TUBE CONNECTOR 1/4", 1/8"NPT	90-230-05-PP	1
155	FTG ELB 1/4"TBE-SOCKET PLJ1/4	90-222-00-PP	1
156	1/4" NYLON TUBE BLACK 6"	33-361-20-4BK	1

SOLENOIDS & DIN PLUGS
ARE AVAILABLE
IN BOTH 24V & 110V.

24V SOLENOID ONLY
#90-141-31-PP
24V DIN PLUG ONLY
#90-141-30-PP;

110V SOLENOID ONLY
#90-134-02-PP
110V DIN PLUG ONLY
#90-134-03-PP

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TITLE	RS500 SONIC WHEEL WASHER ASSEMBLY	
PART NO 59-000-000-LH	DWG NO 59-000-000-LH	REV C
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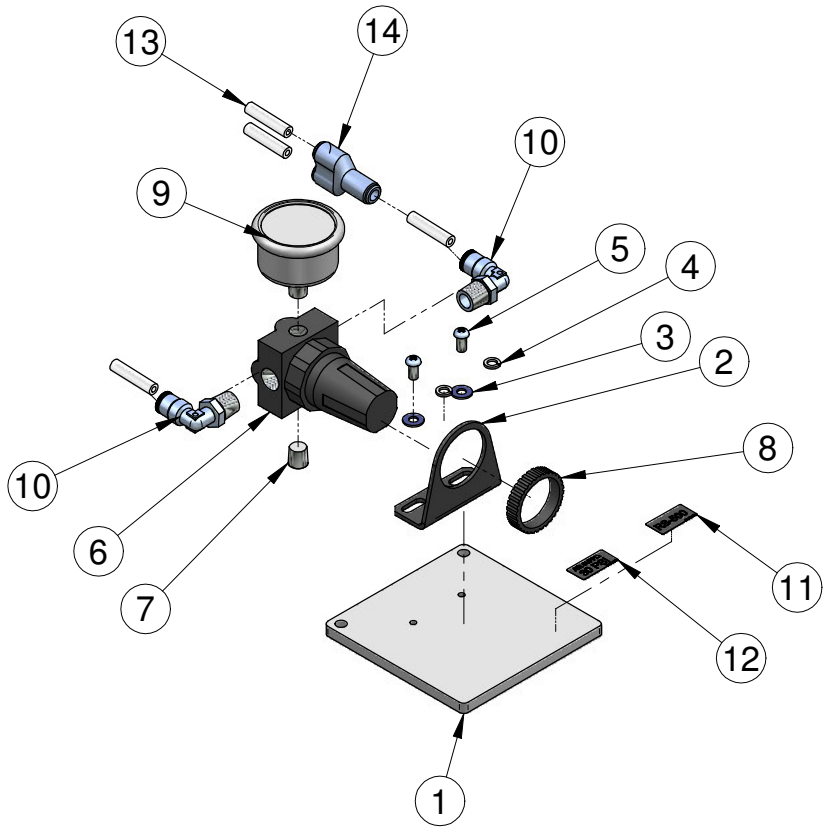
RS500 SONIC WHEEL WASHER

DOCUMENT #EPL-RS500

ASSEMBLY - BACK ROOM REGULATOR : 59-900-10-MP



REF.	DESCRIPTION	PART NUMBER	QTY
1	REGULATOR PANEL BOARD AL CLEAR ANO'D	59-900-08-CL	1
2	AIR REGULATOR MTG BRKT B220	90-170-02-PP	1
3	WASHER FLAT SS #10	80-110-000-SN	2
4	LOCK WASHER #10 S.S.	80-910-000-SN	2
5	SCRW SS PAN-HD PHL #10-24 x 3/8"	83-510-006-SNC	2
6	AIR REGULATOR WATTS 0-60PSI MODEL R25-02B	90-110-01-PP	1
7	PLUG CNTRSUNK HEX 1/8" NPT	90-062-00-PP	1
8	NUT PLASTIC REGULATOR R05x51	90-115-00-PP	1
9	AIR PRESSURE GAUGE 0-60 PSI BACK MOUNTED	90-060-00-PP	1
10	FTG ELB SWV 1/4"TBE-1/4"NPT 6520-04-04	90-223-06-PP	2
11	DECAL 'RS-500'	36-059-01-PP	1
12	DECAL 'AIR SUPPLY 30 PSI'	36-059-04-PP	1
13	TUBE NY CLR .250"OD	33-361-20-4CL	4
14	FTG 'Y' 1/4"TUBE 6560-04-00	90-253-04-PP	1

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TITLE	RS500 BACKROOM REGULATOR ASSY	
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