



REPLACEMENT PARTS MANUAL

FOR MODEL: **PNW BFDSA-2 (24VDC)**,

PART # 330017

SERIES 0000



PRECISION WATER SYSTEMS

SEMI-AUTOMATIC DOUBLE DISPENSER

MANUFACTURED BY:

PRECISION DESIGN & MANUFACTURING INC.

10331-105TH STREET

WESTLOCK, ALBERTA, CANADA, T7P 2H7

email: info@precisioncanada.com

PHONE (780) 349-4933 FAX (780)349-4957

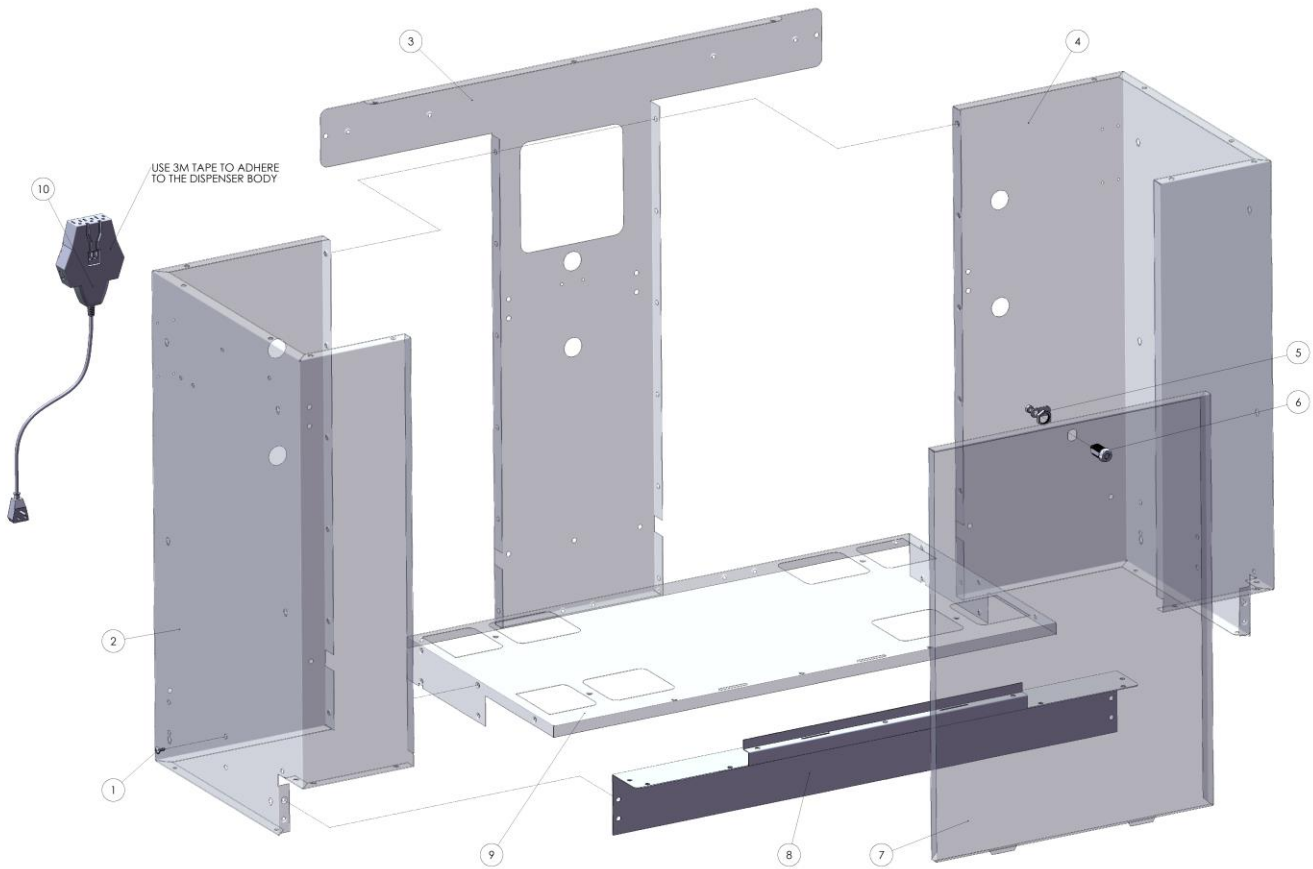
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1. 096053, Exploded Parts List **Dispenser Lower Cabinet Assembly**

Item #	Part #	Description	Qty
0	060156	Power Bar, 8 Outlets (not shown)	1
1	010000	Screw, Sheet Metal, #10-12 X ½", SS	44
2	330433	PN, Side, RH, Lower Cabinet, Double Dispenser	1
3	330420	PN, Back, Lower Cabinet, Double Dispenser	1
4	330432	PN, Side, LH, Lower Cabinet, Double Dispenser	1
5	330042	Washer, .75DD x .875 20ga., SS	3
6	080244	Lock, Cylinder, Camlock, W/Key	1
7	330423	PN, Door, Lower Cabinet, Double Dispenser	1
8	330429	PN, Kick Plate, Lower Cabinet, Double Dis.	1
9	330431	PN, Shelf, Lower Cabinet, Double Dispenser	1

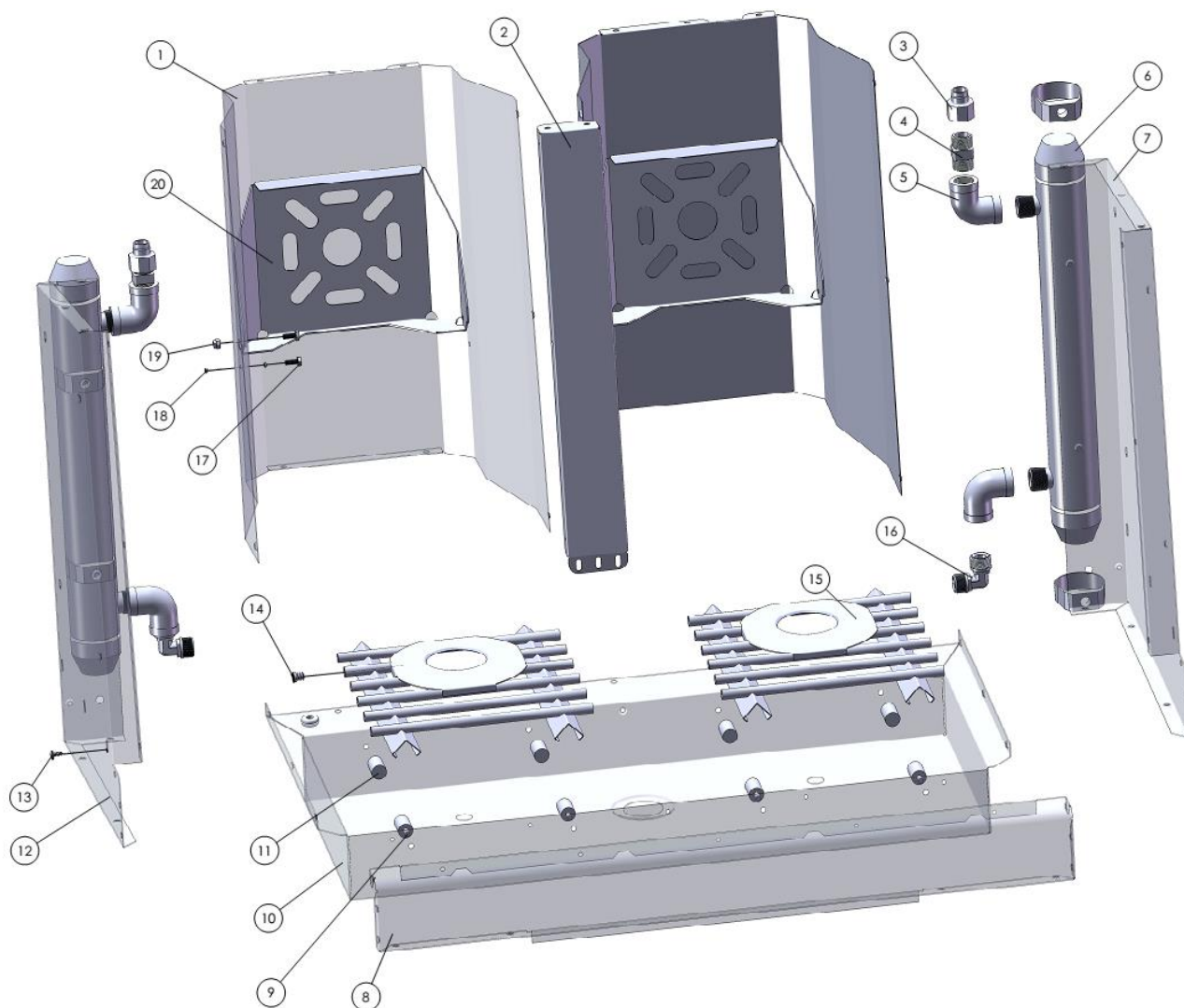
1. 096053, Exploded Parts List Dispenser Lower Cabinet Assembly



2. 096054, Exploded Parts List Dispenser Top Stand Assembly

Item #	Part #	Description	Qty
1	330422	PN, Compartment Inner Wall	2
2	330421	PN, Compartment Divider, Double Dispenser	1
3	XXXXXX	Nut Part of F048	4
4	F048	Nipple, Hex, PloyP, 3/4" MPT	2
5	F252	SS, Elbow 3/4"F x 3/4"F	4
6	080370	UV Assembly	2
7	330452	PN, End LH, Top Dispenser	1
8	330425	PN, Front Plate, Top Stand, Double Dispenser	1
9	900197	Stub, WA, Grate Support	8
10	330437	PN, Tray, Welded Assembly, Double Dispenser	1
11	900198	Tube, Silicone, 1/2" ID x 1"	8
12	330434	PN, End RH, Top Dispenser	1
13	010000	Screw, Sheet Metal, #10-12 X 1/2", SS	33
14	054032	Cap, 1/2"OD Tube, Black, LDPE	24
15	330427	PN, Grate Welded Assembly, Dispenser	2
16	034053	Elbow, 3/4" MPT x 3/4" MPT	2
17	014006	Capscw., SS, 1/4-20x5/8"	8
18	025000	Nut,Hex,SS,1/4-20	8
19	025004	Nut,Nylock,SS,1/4-20	4
20	330419	PN, 1 Gallon Shelf	2
not shown			
	080372	UV Bulb (for item #19)	2
	E002	Quartz Sleeve, UV (for item #19)	2

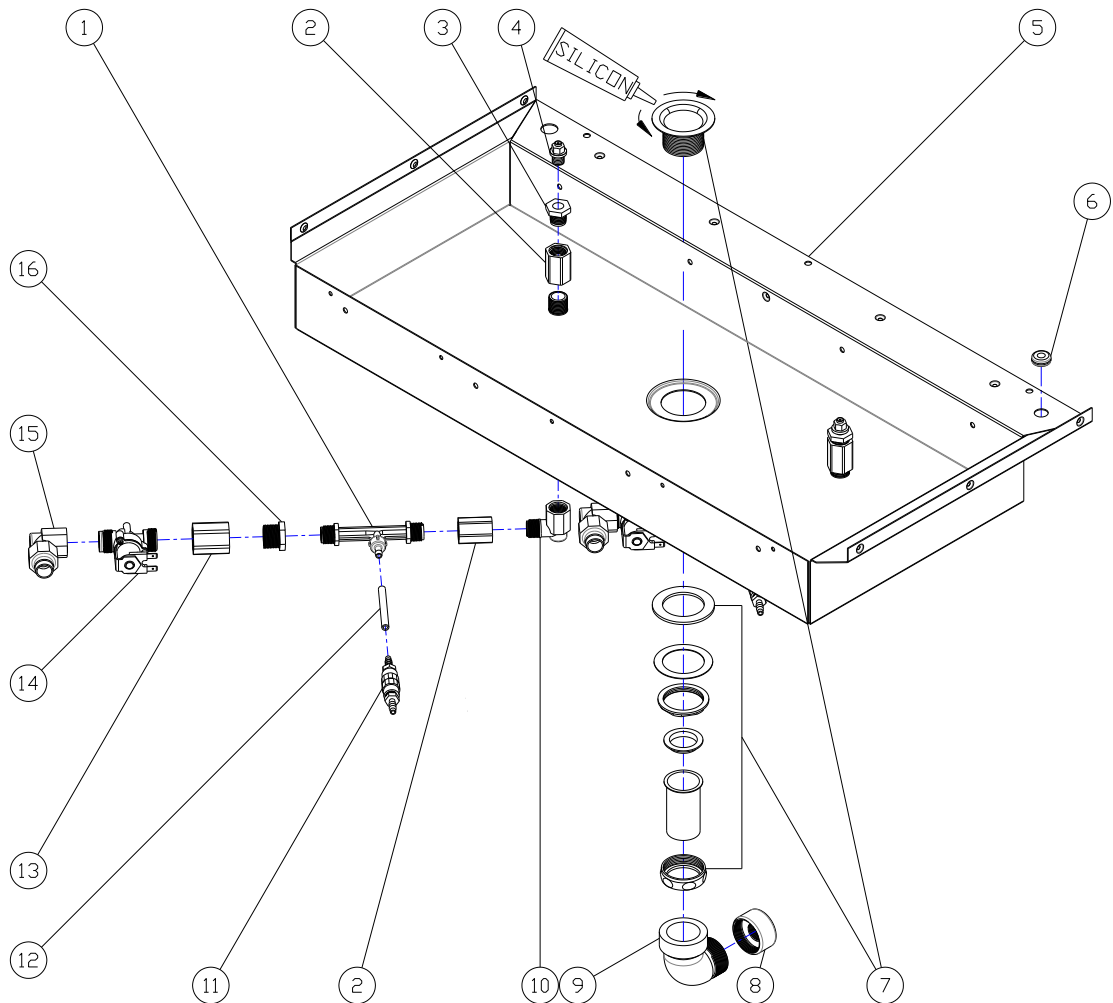
2. 096054, Exploded Parts List Dispenser Top Stand Assembly



3. 096055, Exploded Parts List Tray Welded Assembly, Ozone Rinse

Item #	Part #	Description	Qty
1	080336	Injector, Mazzei, Venturi, 287Poly, 1/2MPT	2
2	F026	Qest Coupler 1/2"F x 1/2"F	4
3	034113	Pipe Bushing, Nylon, 1/2" MPT x 1/4" FPT	2
4	080303	¼ HH-KYC Full Jet Nozzle	2
5	330437	PN, Tray W.A. Double Dispenser	1
6	080181	Grommet, 3/8 ID, 5/8" Hole, Black	1
7	080223	Drain, Bilkhead, SS, 1-1/2"	1
8	034106	Bushing Reduction, ABS, 1-1/2" x ¾"	1
9	034101	Elbow, 90, 1-1/2" ABS x 1-1/2" Drain	1
10	034002	Elbow, 90, 1/2" OD Tube x 1/2" FPT	2
11	080339	Valve, Check, 3/8 FPT BE	2
12	080377	Tubing, PVC, 5/16" OB x 3/16" ID	2
13	034051	Coupler, ¾"-14FPT BE	2
14	060106	Valve, Sol, 3/4MPT BE, 24VDC, Poly	2
15	034050	Elbow, 3/4FPT x 5/8OD Tube, AC	2
16	034098	Reducer, Bushing, ¾" MPT x ½" FPT	2

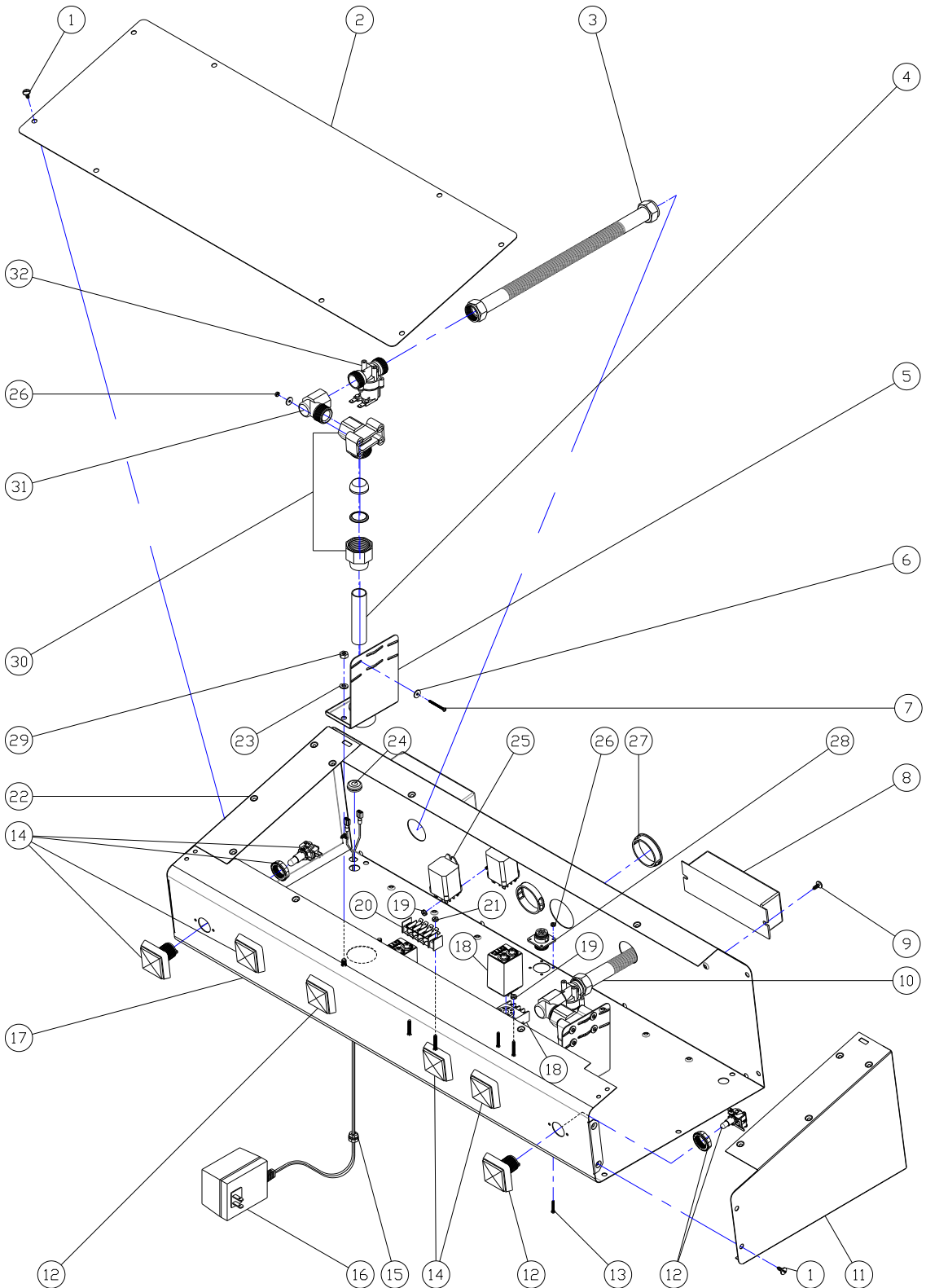
3. 096055, Exploded Parts List Tray Welded Assembly, Ozone Rinse



4. 096056, Exploded Parts List Dispenser Head Assembly, BFDSA-2

Item#	Part #	Description	Qty
1	010000	Screw, Sheet Metal, SS, #10-12 X 1/2" TRSHD/SSDR	20
2	330247	Cover, Top, Double Dispenser, S3	1
3	036026	Connector, SS Flex, 3/4" X 3/4" FIP X 3/4"ID X 15" Long	1
4	330113	Flow Nozzle WA, 0.875"OD X 3.5"	2
5	330116	Spout Mount WA, S2	2
6	018016	Washer, Flat, 0.140"ID X 1/2"OD, 18ga, SS	16
7	016017	Screw, Machine, SS, #4-40 X 1.25", Pan Hd, Phl Dr	8
8	080440	Ballast (Part Of The 80370 Kit)	2
9	036027	Connector, SS Flex, 3/4" X 3/4" FIP X 3/4"ID X 18" Long	1
10	330453	PN, End, LH, Top Dispenser	1
11	330454	Microswitch & Switch Assembly, Dispenser	2
12	012003	Screw, Machine, Plated, #4-40UNC X 3/4", Rnd/Sk	2
13	060103	Switch, Push-Button, Blue, Square, Lite W/#400 Bulb	4
14	054003	Strain Relief, 4N5	1
15	330286	Transformer Assembly, 24VDC, 1A, F250	1
16	060102	Base, 8 Pin, Timer Terminal	2
17	330460	PN Double Head, Studded	1
18	060101	Timer, 24VAC, 10AMP, 8PIN, DPDT	2
19	026002	Nut, Kep, Plated, #6-32UNC	8
20	060072	Terminal Block, 4 X 4 F250 Double Tab	1
21	026001	Nut, Kep, Plated, #8-32UNC	2
22	330424	PN, End, RH, Top Dispenser	1
23	024000	Washer, Lock, SS, Helicoil, 1/4"	4
24	080181	Grommet, 3/8"ID, 5/8"Hole, Black	1
25	060149	Power Relay, CLEAR, DPDT, 24 VDC, 20A	2
26	026003	Nut, Kep, Plated, #4-40UNC	10
27	054040	Bushing, Snap, Plastic, 2" Hole	2
28	060044	Receptacle, 7 Pin, Circular	1
29	025000	Nut, Hex, SS, 1/4"-20UNC	4
30	034049	Elbow, Drop Ear, 7/8"OD Tube X 3/4"FPT	2
31	034050	Elbow, 3/4"FPT X 5/8"OD Tube, AC	2
32	060106	Solenoid Valve, 24VDC, 3/4" BSP Male Threads w/ Inlet Filter	2
not shown			
	E649	Switch Legend- Clear Square	6
	E648	Switch Lens- Clear Square	6

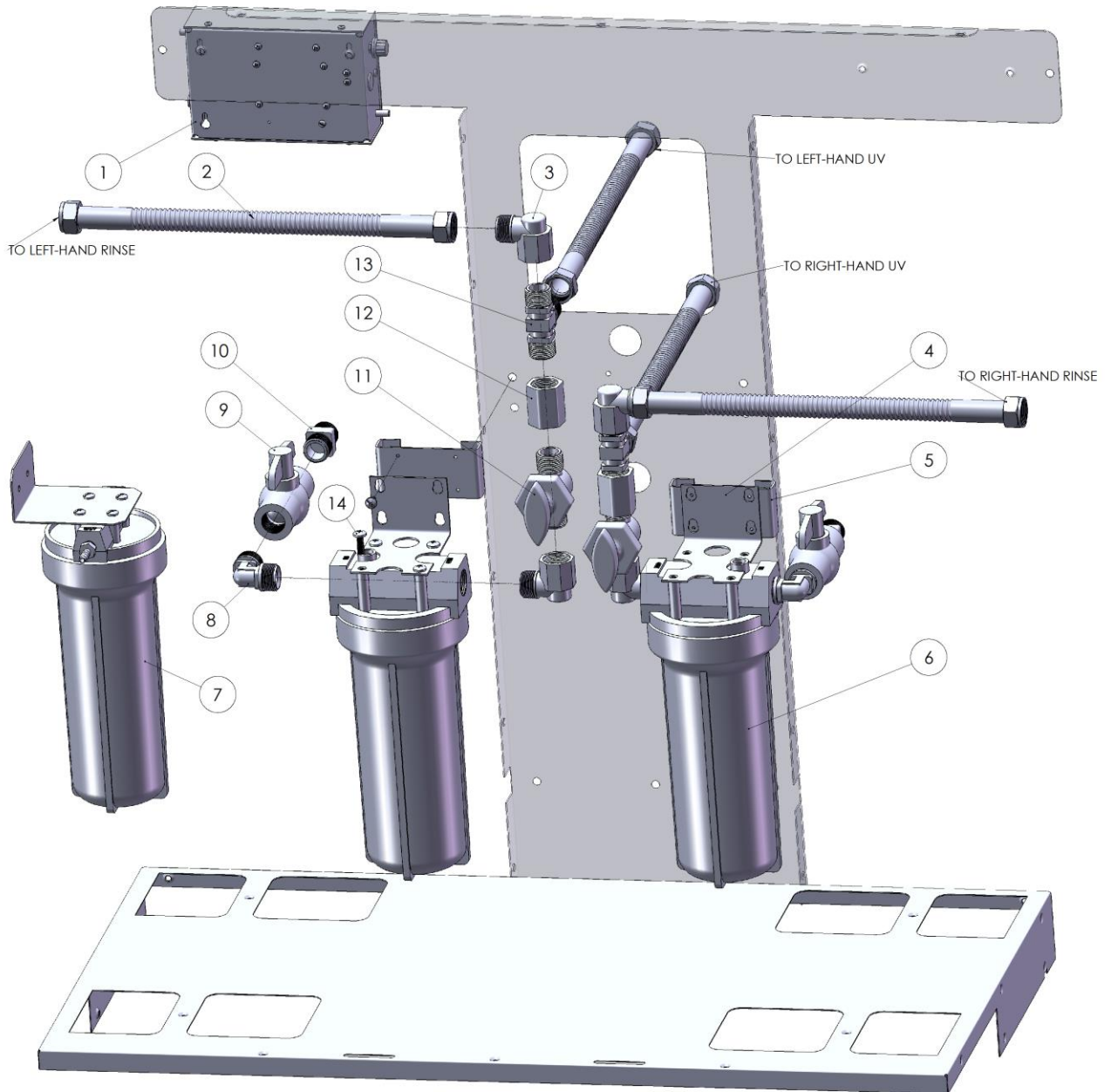
4. 096056, Exploded Parts List Dispenser Head Assembly, BFDSA-2



5. 096057, Exploded Parts List Filter, Plumbing, Dryer Kit, BFDSA-2

Item #	Part #	Description	Qty
1	080337	Generator, Ozone, Poseidon, 12VDC	1
2	036028	Connector, SS Flex- 3/4" x 3/4" FIP x 3/4"ID 24"L	4
3	034050	Elbow, 90 Degree, 3/4"FPT X 5/8"OD Tube w. Nut	4
4	F450	Filter-Bracket 10"	2
5	330448	Filter Wall Mount Bracket	2
6	F452	Filter- Housing 10" Blue	2
7	080340	DI Dryer Housing,Cartridge,5",3/8FPT W/PR	1
8	034053	Elbow, 3/4" MPT x 3/4" MPT with Nuts	2
9	034104	Ball Valve, Compact, White 3/4", Threaded, PVC	2
10	F048	Qest 3/4" x 3/4"	2
11	F062	Qest Shutoff 3/4" x 3/4"	2
12	034051	Coupler, 3/4FPT BE, ACETAL	2
13	F052	Quest Tee 3/4" Thread, 5/8" OD	2
14	010011	Screw, Tek, 410SS, 1/4"-14 X 1-1/4", HWH	8

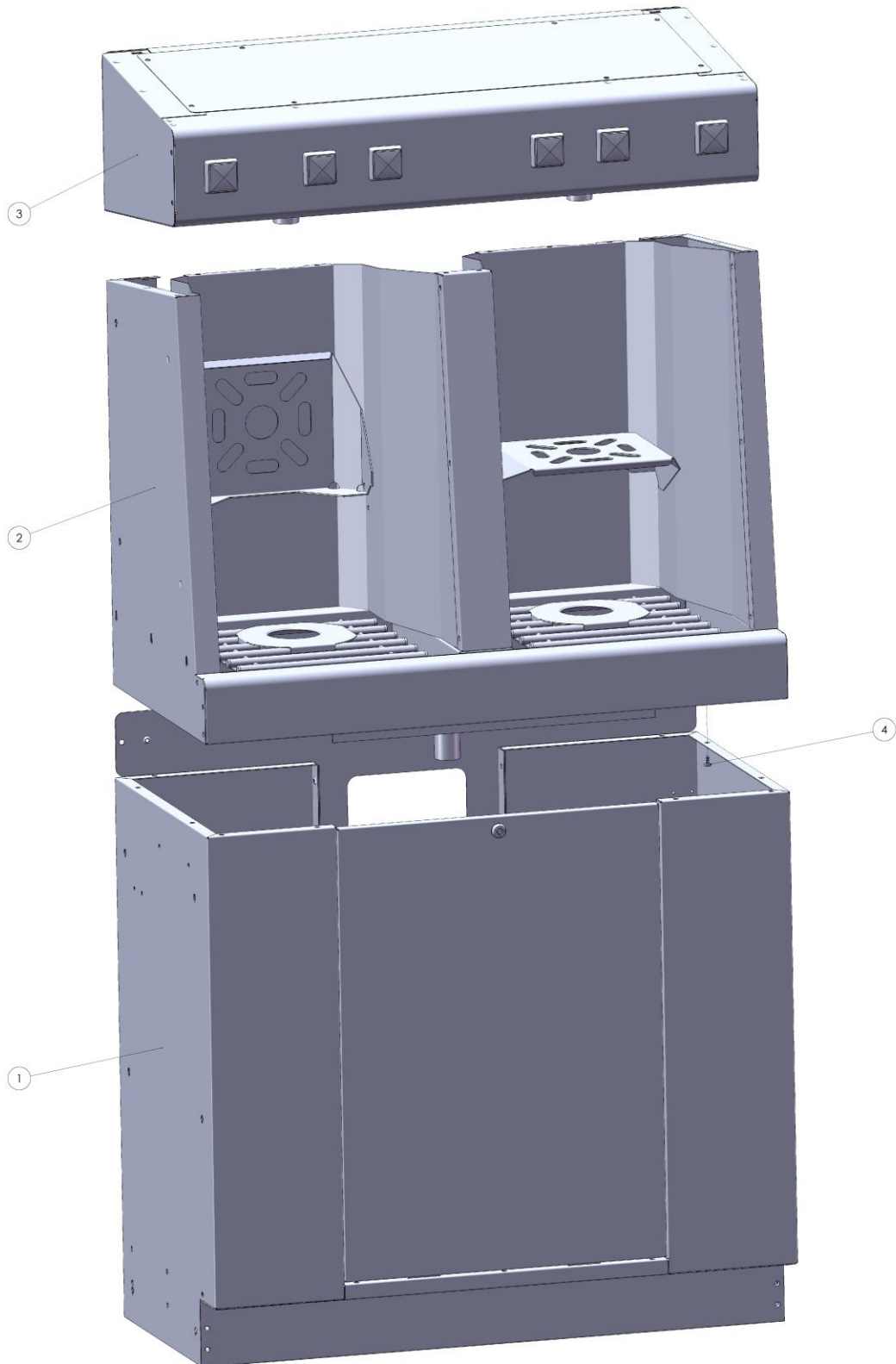
5. 096057, Exploded Parts List Filter, Plumbing, Dryer Kit, BFDSA-2



6. 096052, Exploded Parts List Dispenser Assembly, BFDSA-2

Item #	Part #	Description	Qty
1	330444	Dispenser Lower Cabinet Assembly	1
2	330445	Dispenser Top Stand Assembly	1
3	330446	Dispenser Head Assembly	1
4	010000	Screw, Sheet Metal, #10-12 X ½", SS	23

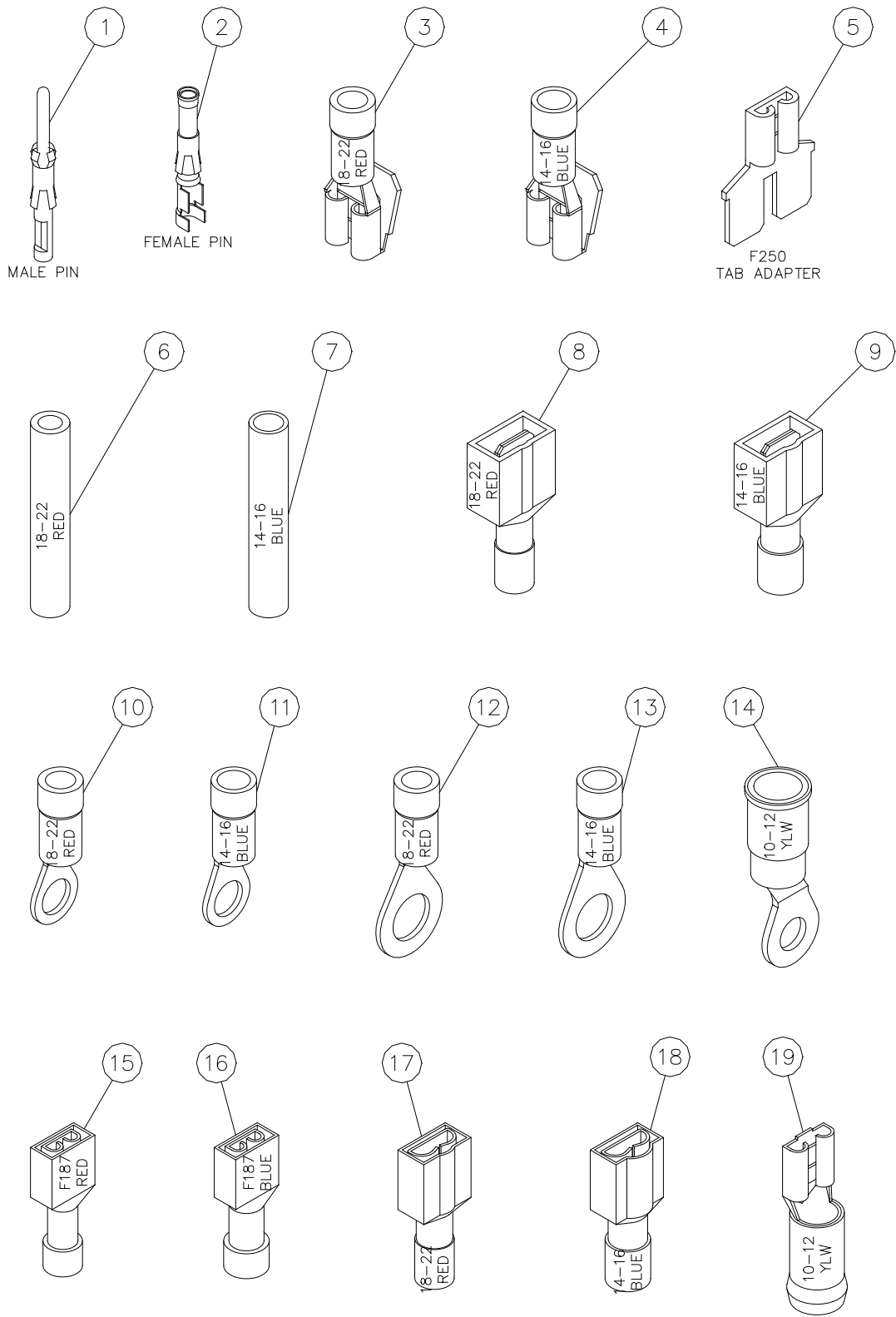
6. 096052, Exploded Parts List Dispenser Assembly, BFDSA-2



7. 094109, Exploded Parts List Electrical Terminals

Item #	Part #	Description
1	060016	Pin, Male, Circular
2	060017	Pin, Female, Circular
3	066014	Receptacle, Pigg, F250, #18-22 AWG, Red
4	066004	Receptacle, Pigg, F250, #14-16 AWG, Blue
5	066013	Tab Adapter, F250
6	066006	Butt Splice, #18-22 AWG, Red
7	066005	Butt Splice, #14-16 AWG, Blue
8	066012	Tab, 250, #18-22 AWG, Red
9	066011	Tab, 250, #14-16 AWG, Blue
10	066008	Ring, #10, #18-22 AWG, Red
11	066007	Ring, #10, #14-16 AWG, Blue
12	066010	Ring, ¼", #18-22 AWG, Red
13	066009	Ring, ¼", #14-16 AWG, Blue
14	066016	Ring, #10, #10-12 AWG, Yellow
15	066003	Receptacle, F187, #18-22 AWG, Red
16	066001	Receptacle, F187, #14-16 AWG, Blue
17	066002	Receptacle, F250, #18-22 AWG, Red
18	066000	Receptacle, F250, #14-16 AWG, Blue
19	066015	Receptacle, F250, #10-12 AWG, Yellow

7. 094109, Exploded Parts List
Electrical Terminals



8. 330017 Wiring Diagram List, Double Dispenser BFDSA-2

Wiring List - PURELY NATURAL DOUBLE DISPENSER, BFDSA-2 PART # 330447A								
No.	Part#	Color	Ga	Length	From Conn.	ToConn.	From Location	To Location
						SERIES 1		
1	330286	BLK/WHT	18	FULL 72"		F250 #18-#22	TRANSFORMER	TERMINAL BLOCK (RH TAB)
2	330296	BLK	18	FULL 72"		F250 #18-#22	TRANSFORMER	TERMINAL BLOCK (LH TAB)
3		WHT	16	26"	F250 #14-#16	PIGG #14-#16	TERMINAL BLOCK (RH TAB)	RELAY A (LH)
4		BLK	16	12"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (LH TAB)	STOP SWITCH COM (LH)
5		YLW	16	26"	F250 #14-#16	PIGG #14-#16	TERMINAL BLOCK (RH TAB)	RELAY A (RH)
6		RED	16	20"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (LH TAB)	RINSE SWITCH WHITE COM (LH)
7		RED	16	10"	F250 #14-#16	BARE	TERMINAL BLOCK (RH TAB)	TIMER BASE 3 (LH)
8		BLK	16	12"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (LH TAB)	STOP SWITCH COM (RH)
9		RED	16	10"	F250 #14-#16	BARE	TERMINAL BLOCK (RH TAB)	TIMER BASE 3 (RH)
10		GRN	16	20"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (LH TAB)	RINSE SWITCH WHITE COM (RH)
11	064026	BLK	16	96"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (RH TAB)	RINSE SOLENOID VALVE (LH)
12		BLU	16	8"	BARE	BARE	TIMER BASE 6 (LH)	TIMER BASE 7 (LH)
13	064026	GRN	16	96"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (RH TAB)	RINSE SOLENOID VALVE (RH)
14		RED	16	8"	BARE	BARE	TIMER BASE 2 (LH)	TIMER BASE 3 (LH)
15		BLU	16	8"	BARE	BARE	TIMER BASE 6 (RH)	TIMER BASE 7 (RH)
16		BRN	16	14"	BARE	PIGG #14-#16	TIMER BASE 1 (LH)	HEAD SOLENOID VALVE A (LH)
17		RED	16	8"	BARE	BARE	TIMER BASE 2 (RH)	TIMER BASE 3 (RH)
18		WHT	16	14"	BARE	PIGG #14-#16	TIMER BASE 8 (LH)	HEAD SOLENOID VALVE B (LH)
19		BLU	16	14"	BARE	PIGG #14-#16	TIMER BASE 1 (RH)	HEAD SOLENOID VALVE A (RH)
20		BLK	16	10"	BARE	F250 #14-#16	TIMER BASE 8 (LH)	STOP SWITCH NC (LH)
21		YLW	16	14"	BARE	PIGG #14-#16	TIMER BASE 8 (RH)	HEAD SOLENOID VALVE B (RH)
22		BLU	16	12"	BARE	F250 #14-#16	TIMER BASE 8 (LH)	START SWITCH NO (LH)
23		BLK	16	10"	BARE	F250 #14-#16	TIMER BASE 8 (RH)	STOP SWITCH NC (RH)
24		BLU	16	12"	BARE	F250 #14-#16	TIMER BASE 7 (LH)	START SWITCH COM (LH)
25		BLU	16	12"	BARE	F250 #14-#16	TIMER BASE 8 (RH)	START SWITCH NO (RH)
26		ORG	16	9"	PIGG #14-#16	F250 #14-#16	HEAD SOLENOID B (LH)	START SWITCH LIGHT BOTTOM TAB (LH)
27		BLU	16	12"	BARE	F250 #14-#16	TIMER BASE 7 (RH)	START SWITCH COM (RH)
28		ORG	16	9"	PIGG #14-#16	F250 #14-#16	HEAD SOLENOID A (LH)	START SWITCH LIGHT TOP TAB (LH)
29		ORG	16	9"	PIGG #14-#16	F250 #14-#16	HEAD SOLENOID B (RH)	START SWITCH LIGHT BOTTOM TAB (RH)
30		WHT	16	24"	F250 #14-#16	F250 #14-#16	HEAD SOLENOID B (LH)	RELAY 1 (LH)
31		ORG	16	9"	PIGG #14-#16	F250 #14-#16	HEAD SOLENOID A (RH)	START SWITCH LIGHT TOP TAB (RH)
32		BRN	16	24"	F250 #14-#16	F250 #14-#16	HEAD SOLENOID A (LH)	RELAY 3 (LH)
33		YLW	16	24"	F250 #14-#16	F250 #14-#16	HEAD SOLENOID B (RH)	RELAY 1 (RH)
34		WHT	16	3"	F250 #14-#16	F250 #14-#16	RELAY A (LH)	RELAY 4 (LH)
35		BLU	16	24"	F250 #14-#16	F250 #14-#16	HEAD SOLENOID VALVE A (RH)	RELAY 3 (RH)
36		WHT	16	3"	PIGG #14-#16	F250 #14-#16	RELAY B (LH)	RELAY 6 (LH)
37		WHT	16	3"	F250 #14-#16	F250 #14-#16	RELAY A (RH)	RELAY 4 (RH)
38		BRN	16	26"	F250 #14-#16	PIGG #14-#16	RELAY B (LH)	RINSE SWITCH WHITE NO (LH)
39		WHT	16	3"	PIGG #14-#16	F250 #14-#16	RELAY B (RH)	RELAY 6 (RH)
40		WHT	16	8"	F250 #14-#16	FPIN	RELAY 7 (LH)	PUMP RECEPTACLE 1
41		BLU	16	26"	F250 #14-#16	PIGG #14-#16	RELAY B (RH)	RINSE SWITCH WHITE NO (RH)
42		BRN	16	26"	F250 #14-#16	FPIN	RELAY 9 (LH)	PUMP RECEPTACLE 2
43		BLU	16	8"	F250 #14-#16	FPIN	RELAY 7 (RH)	PUMP RECEPTACLE 7
44	064026	BRN	16	96"	F250 #14-#16	F250 #14-#16	RINSE SWITCH WHITE NO (LH)	RINSE SOLENOID VALVE (LH)
45		YLW	16	8"	F250 #14-#16	FPIN	RELAY 9 (RH)	PUMP RECEPTACLE 6
46		WHT	16	24"	F250 #14-#16	F187 #18-#22	RINSE SWITCH BLACK NO (LH)	RINSE SWITCH BLACK NO (RH) – OZONE SWITCH JUMPER
47	064026	BLU	16	96"	F250 #14-#16	F250 #14-#16	RINSE SWITCH WHITE NO (RH)	RINSE SOLENOID VALVE (RH)
48	330463	BLK	18	FULL 36"	PIGG #18-#22	PLUG	RINSE SWITCH BLACK COM (LH)	OZONE GENERATOR – TRIGGER LEAD
49	330463	BLK	18	FULL 36"	PIGG #18-#22	PLUG	RINSE SWITCH BLACK NO (LH)	OZONE GENERATOR – TRIGGER LEAD
50		BLK	16	24"	F250 #140#16	F187 #18-#22	RINSE SWITCH BLACK COM (LH)	RINSE SWITCH BLACK COM (RH) – OZONE SWITCH JUMPER

NOTES: 1. #1 & #2 WIRES ARE ATTACHED TO THE TRANSFORMER.

2. #47 & #48 WIRES ARE ATTACHED TO THE OZONE GENERATOR PLUG.

3. #11, #13, #44 & #47 WIRES ARE 6 CONDUCTORS CABLE, ONLY 4 ARE USED ON TOP TO BOTTOM

(RED & WHITE WIRES ARE NOT USED).

TOP END STRIP SHEATH 32" AND LOCK @ GROMMENT 34" WITH TIE STRAP. BOTTOM END STRIP SHEATH 18".

