



REPLACEMENT PARTS MANUAL

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

PART # 330017

SERIES 0004



PRECISION WATER SYSTEMS

SEMI-AUTOMATIC DOUBLE DISPENSER

MANUFACTURED BY:

PRECISION DESIGN & MANUFACTURING INC.

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TABLE of CONTENTS

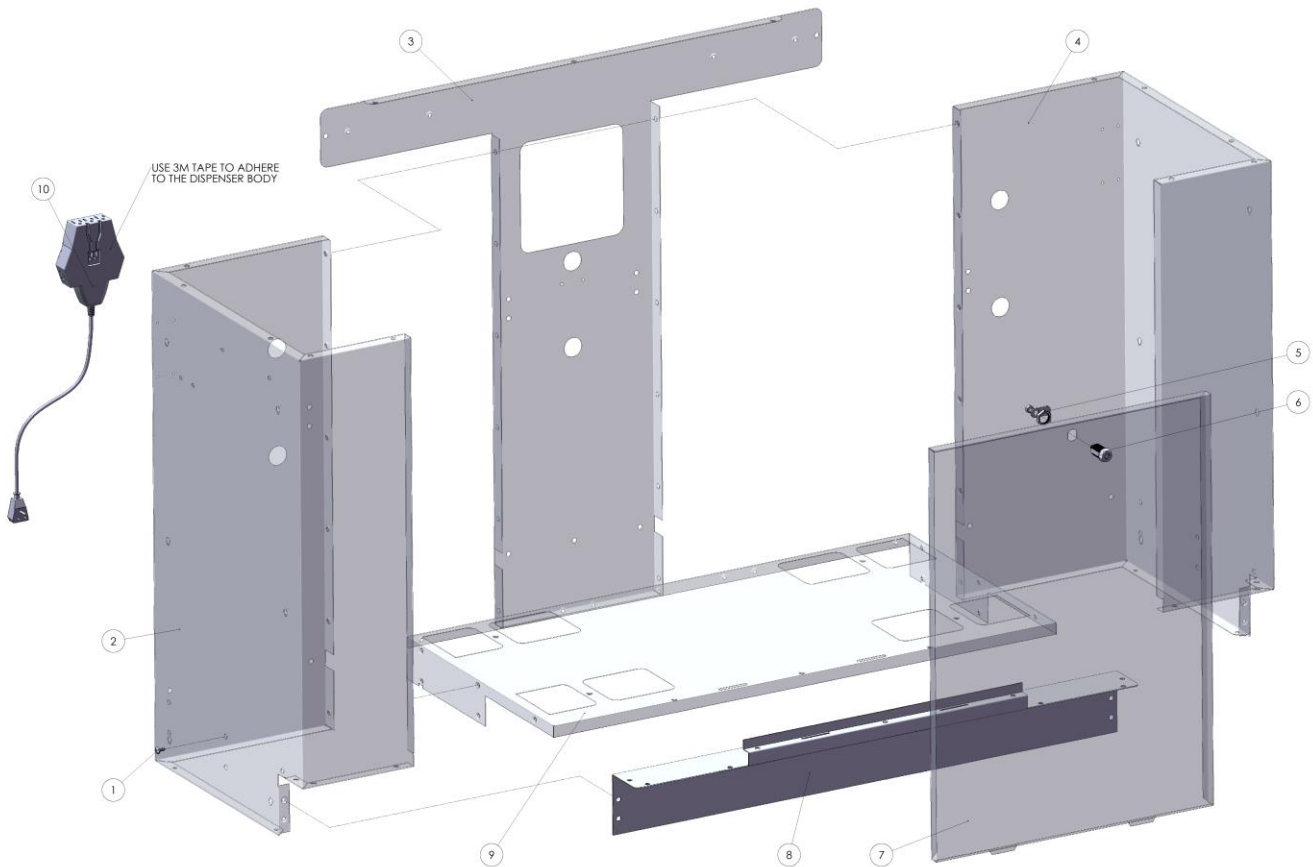
	<u>Page</u>
1. 096053 Dispenser Lower Cabinet Assembly	4 & 5
2. 096054 Dispenser Top Stand Assembly	6 & 7
3. 096055 Tray Welded Assembly, Ozone Rinse	8 & 9
4. 096056 Dispenser Head Assembly, BFDSA-2	10 & 11
5. 096057 Filter, Plumbing, Dryer Kit	12 & 13
6. 094608 Dispenser Assembly, BFDSA-2	14 & 15
7. 094109 Electrical Terminals	16 & 17
8. 094397 Wiring List 330017, Double Dispenser	18
9. 330296 Wiring Diagram, Schematic, BFDSA-2	19

1. 096053, Exploded Parts List

Dispenser Lower Cabinet Assembly

Item #	Part #	Description	Qty
1	012017	Screw, Machine, SS, #8-32 X 3/8" Trs Hd/Sk	44
2	330471	Side, RH, Lower Cabinet, Clinch Nut, Double Dispenser	1
3	330470	Back, Clinch Nut, Lower Cabinet, Double Dispenser	1
4	330475	Side, LH, Clinch Nut, Lower Cabinet, Double Dispenser	1
5	330042	Washer, .75DD x .875 20ga., SS	3
6	080244	Lock, Cylinder, Camlock, W/Key	1
7	330423	Door, Lower Cabinet, Double Dispenser	1
8	330429	Kick Plate, Lower Cabinet, Double Dispenser	1
9	330474	Shelf, Clinch Nut, Lower Cabinet, Double Dispenser	1
10	060156	Power Bar, 8 Outlets (not shown)	1

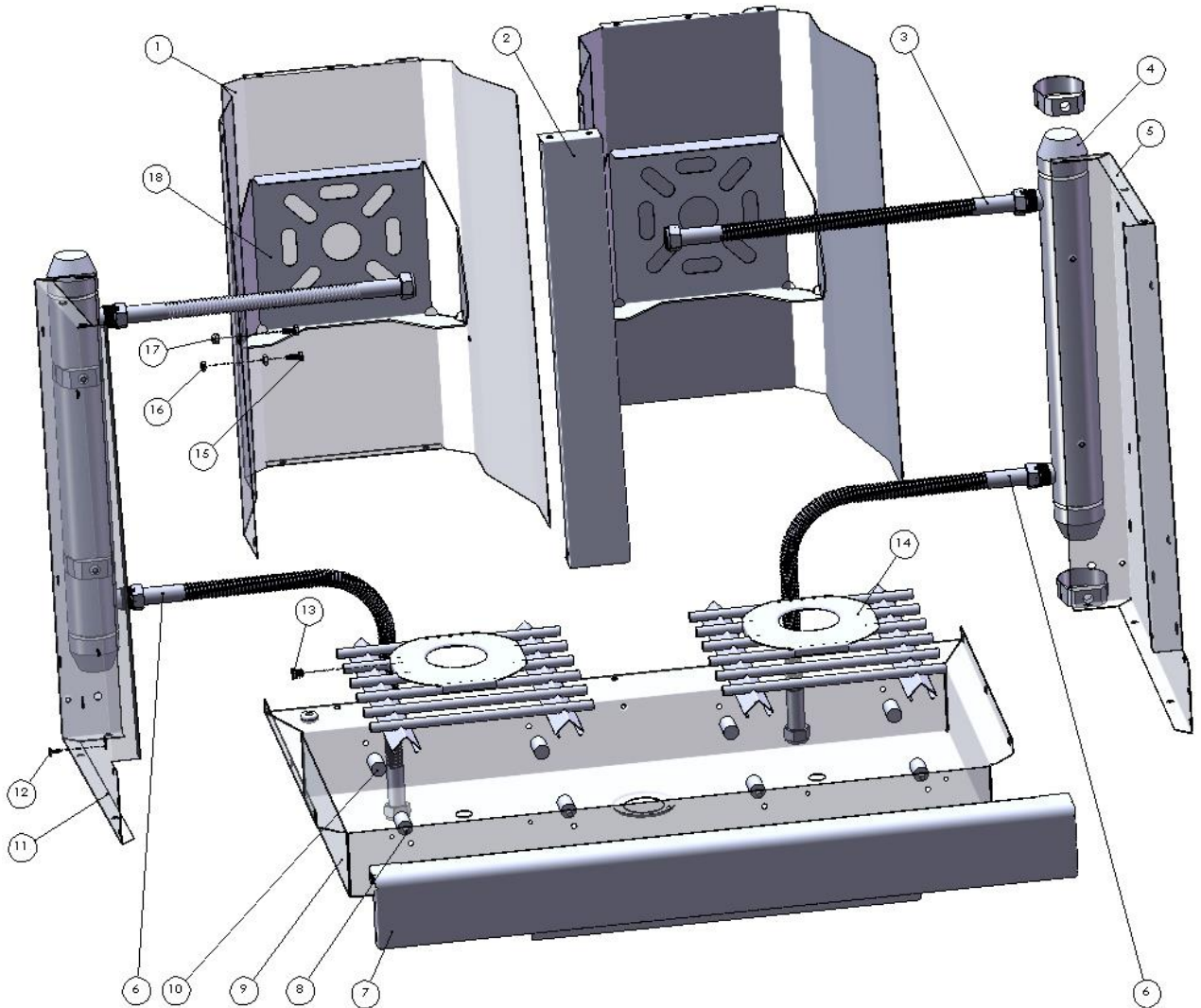
1. 096053, Exploded Parts List Dispenser Lower Cabinet Assembly



2. 096054, Exploded Parts List Dispenser Top Stand Assembly

Item #	Part #	Description	Qty
1	330465	Compartment Inner Wall, Clinch Nut	2
2	330421	Compartment Divider, Double Dispenser	1
3	036027	Connector, SS Flex, 3/4" X 3/4" FIP X 3/4"ID X 18"L	1
4	080370	UV Assembly	2
5	330473	Side, LH, Clinch Nut, Top Dispenser	1
6	036028	Connector, SS Flex, 3/4" X 3/4" FIP X 3/4"ID X 24"L	2
7	330469	Front Plate, Clinch Nut, Top Stand, Double Disp.	1
8	900197	Stub, WA, Grate Support	8
9	330437	Tray, Welded Assembly, Double Dispenser	1
10	900198	Tube, Silicone, 1/2" ID x 1"	8
11	330472	Side, RH, Clinch Nut, Top Dispenser	1
12	012017	Screw, Machins, SS, #8-32 X 3/8" Trs Hd/Sk	33
13	054032	Cap, 1/2"OD Tube, Black, LDPE	24
14	330427	Grate Welded Assembly, Dispenser	2
15	014006	Capscrew, SS, 1/4"-20UNC X 5/8"	8
16	025000	Nut, Hex, SS, 1/4"-20UNC	8
17	025004	Nut, Nylock, SS, 1/4"-20UNC	4
18	330419	1 Gallon Shelf	2
not shown			
	080372	UV Bulb (for item #19)	
	E002	Quartz Sleeve, UV (for item #19)	

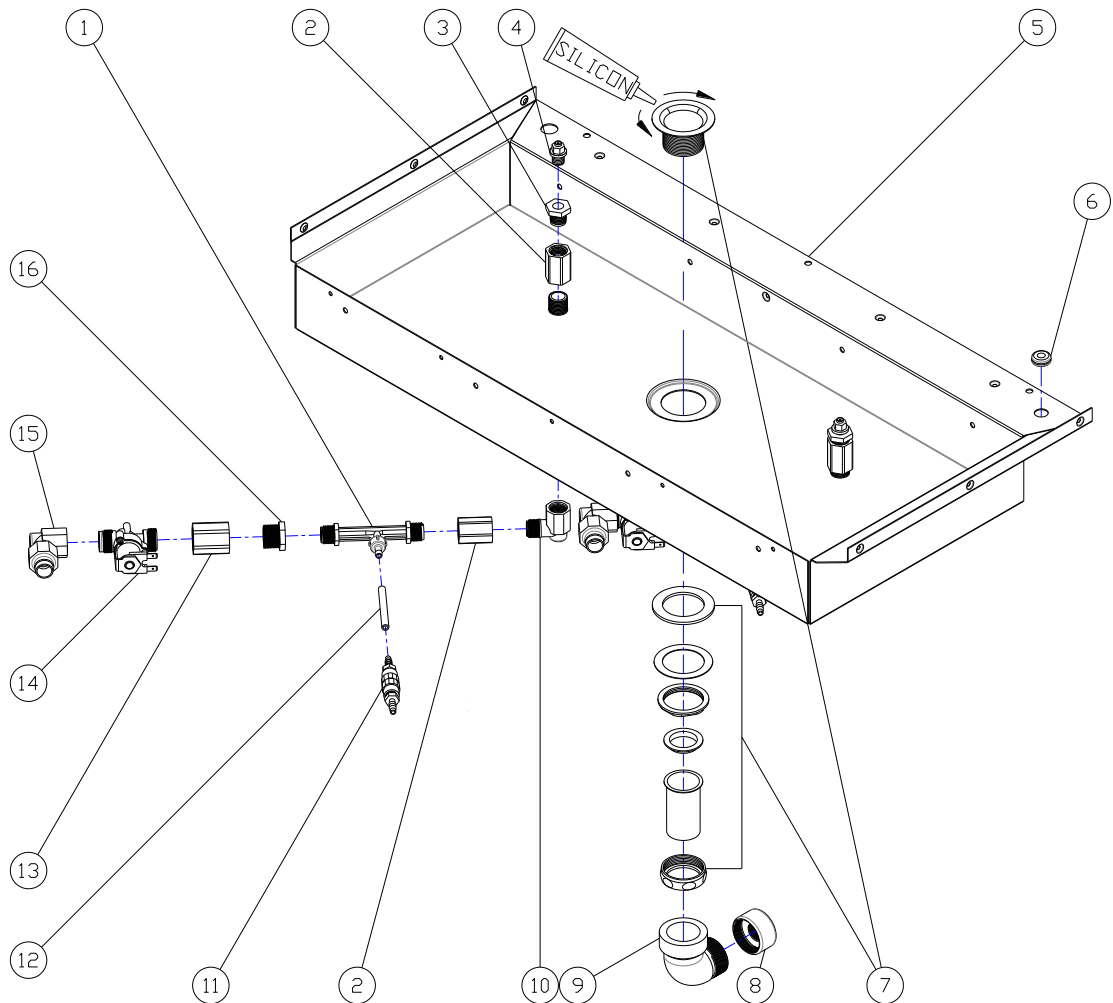
2. 096054, Exploded Parts List Dispenser Top Stand Assembly



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

Item #	Part #	Description	Qty
1	080336	Injector, Mazzei, Venturi, 287 Poly, ½"MPT	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	Tray W.A. Double Dispenser	1
6	080181	Grommet, 3/8 ID, 5/8" Hole, Black	1
7	080223	Drain, Bulkhead, 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, Solenoid, ¾"MPT BE, 24VDC, Poly	2
15	034050	Elbow,3/4"FPT x 5/8"OD Tube, AC	2
16	034098	Reducer, Bushing, ¾"MPT X ½"FPT	2

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



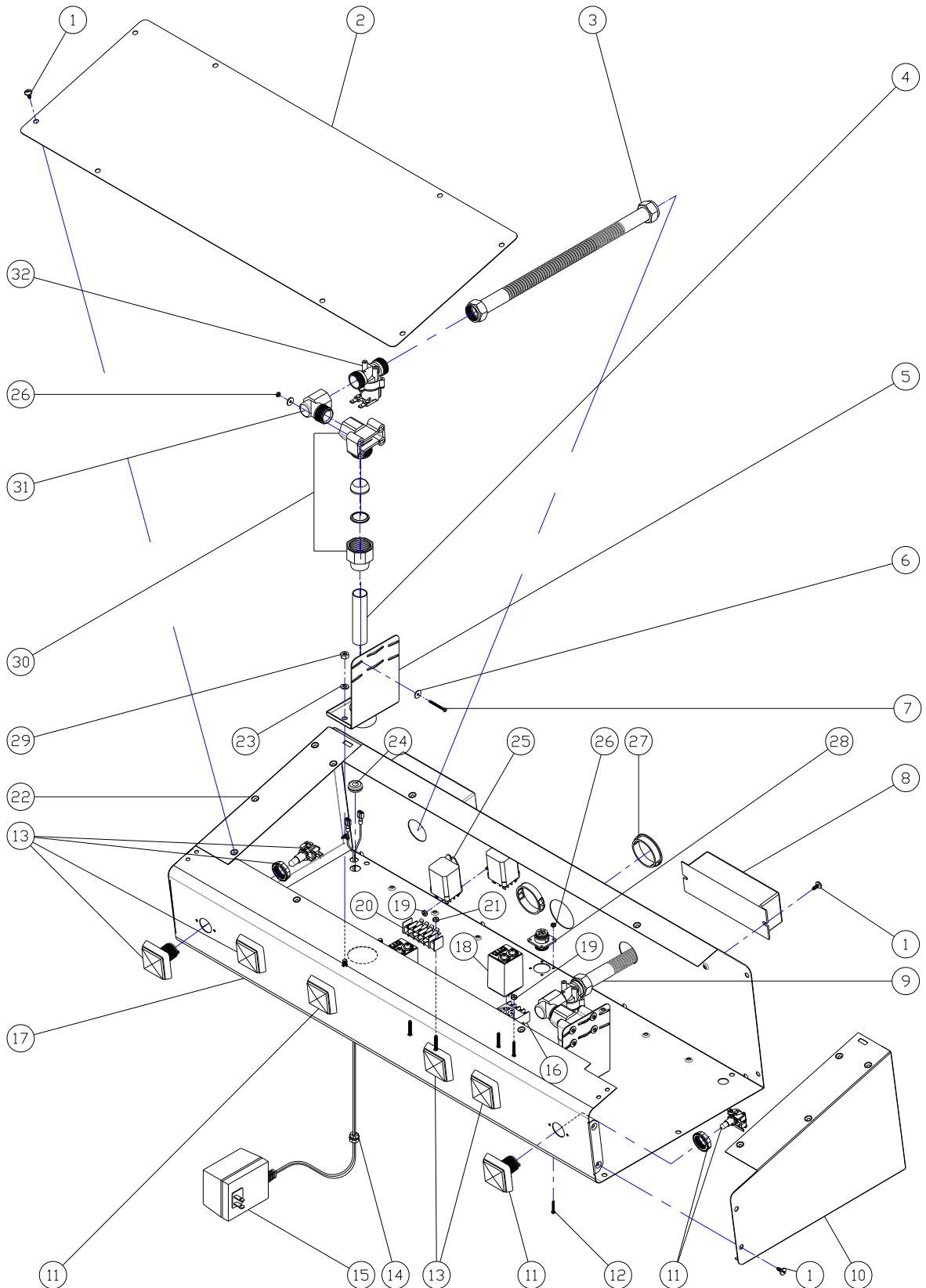
4. 096056, Exploded Parts List Dispenser Head Assembly, BFD SA-2

Item#	Part #	Description	Qty
1	012017	Screw, Machine, SS, #8-32 X 3/8" Truss Head/Socket	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 Head, Phillips Drive	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	330467	End, LH, Clinch Nut, Top Dispenser	1
11	330454	Microswitch & Switch Assembly, Dispenser	2
12	012003	Screw, Machine, Plated, #4-40UNC X 3/4", Round/Socket	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	Double Dispenser 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	330466	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
E648	Switch Lens- Clear Square

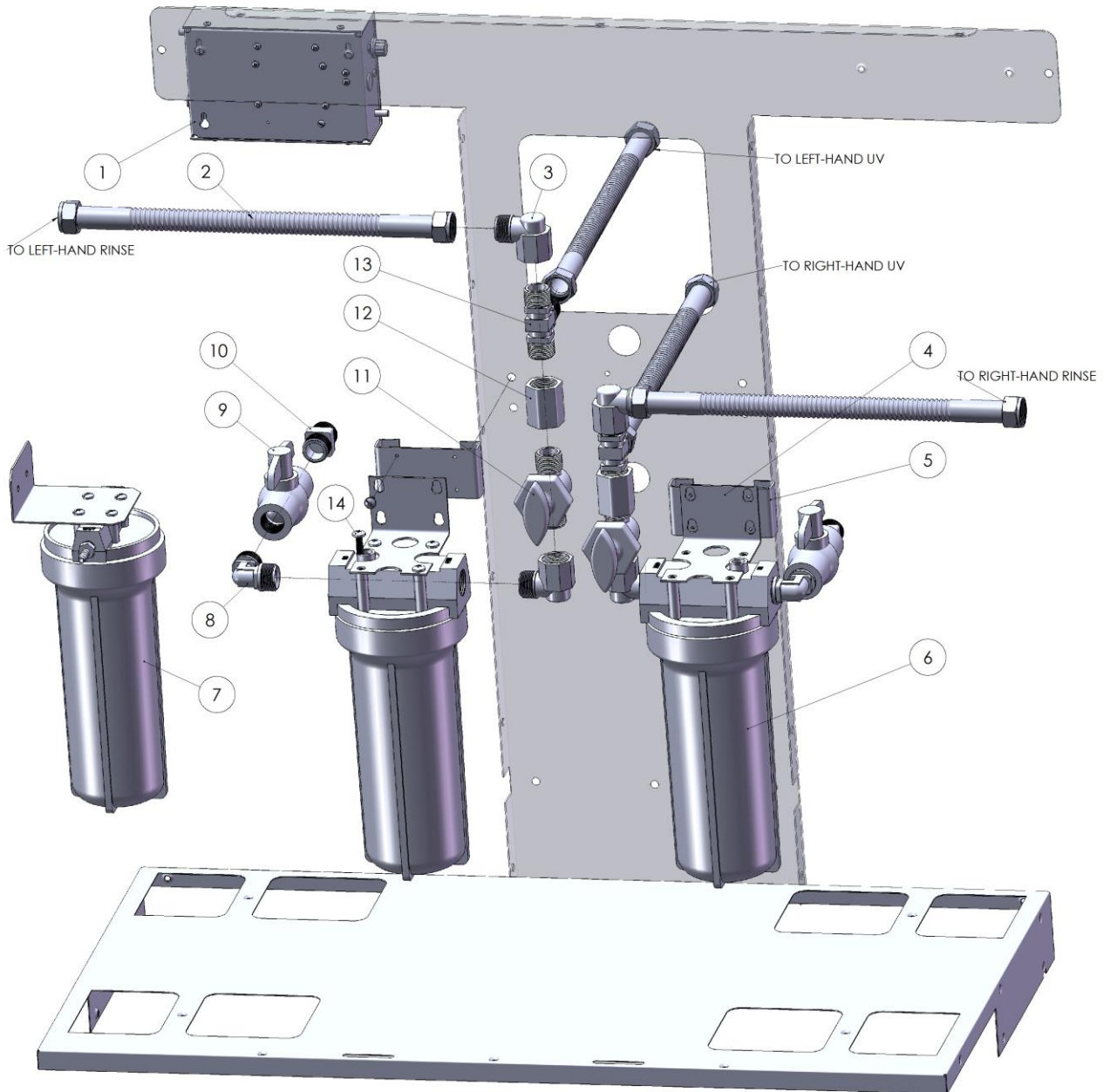
4. 096056, Exploded Parts List Dispenser Head Assembly, BFDSA-2



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 X 24"L	4
3	034050	Elbow, 90 Degree, 3/4"FPT X 5/8"OD Tube W/Nut	4
4	331168	Filter-Bracket 10"	2
5	330495	Filter Wall Mount Bracket, Clinch Nut	2
6	F452	Filter- Housing 10" Blue, 3/4"FPT	2
7	080340	DI Dryer Housing, Cartridge, 5", 3/8"FPT W/PR	1
8	034053	Elbow, 3/4" MPT X 3/4" MPT with Nuts	2
9	030009	Valve, Ball, 3/4"FPT, Full Flow Stainless Steel	2
10	F048	Qest 3/4" X 3/4"	2
11	F062	Qest Shutoff 3/4" X 3/4"	2
12	034051	Coupler, 3/4"FPT 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

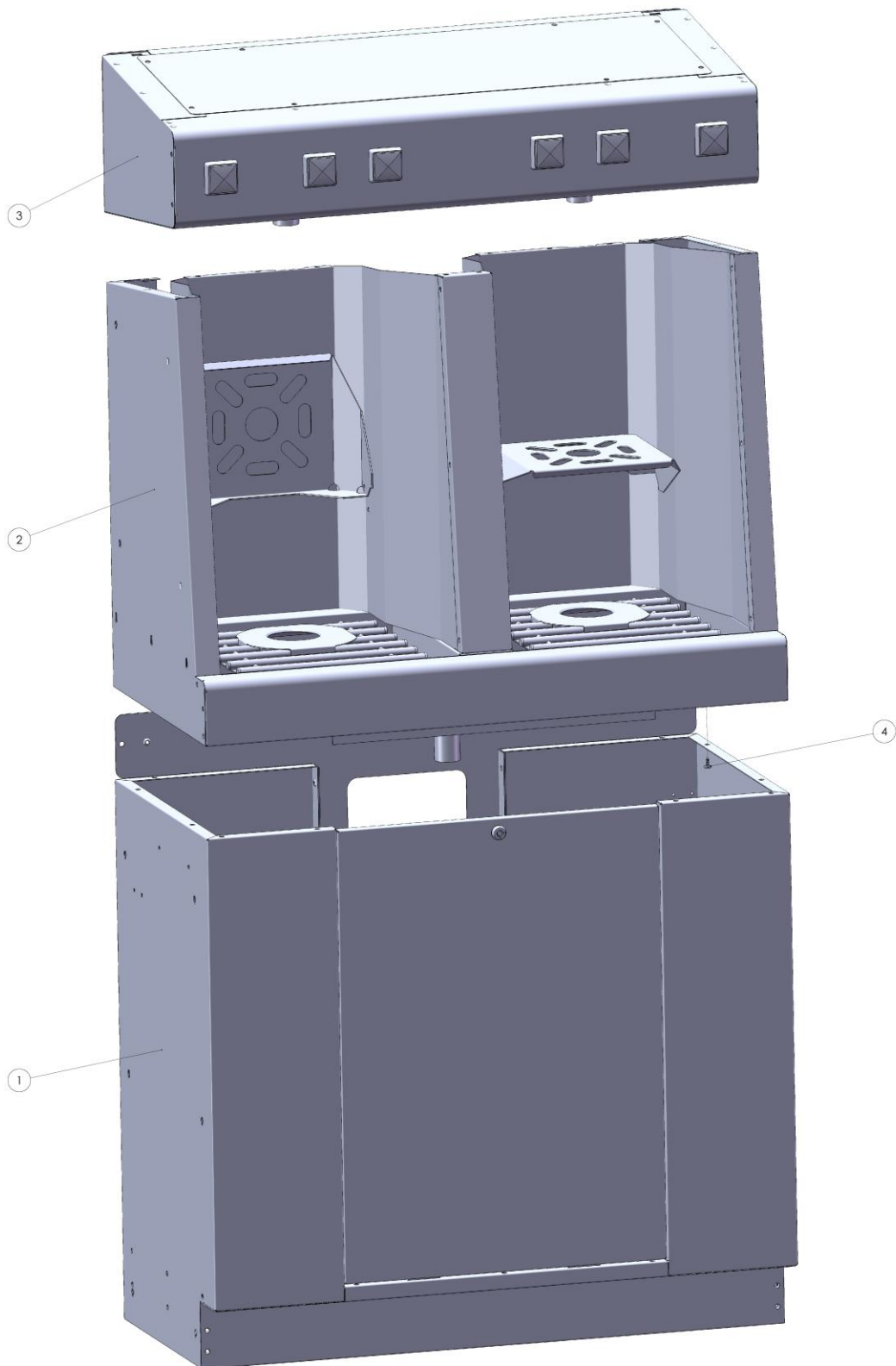
5. 096057, Exploded Parts List Filter, Plumbing, Dryer Kit, BFDSA-2



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	012017	Screw, Mach, SS, #8-32UNC X 3/8" Trs Hd/Sk	23

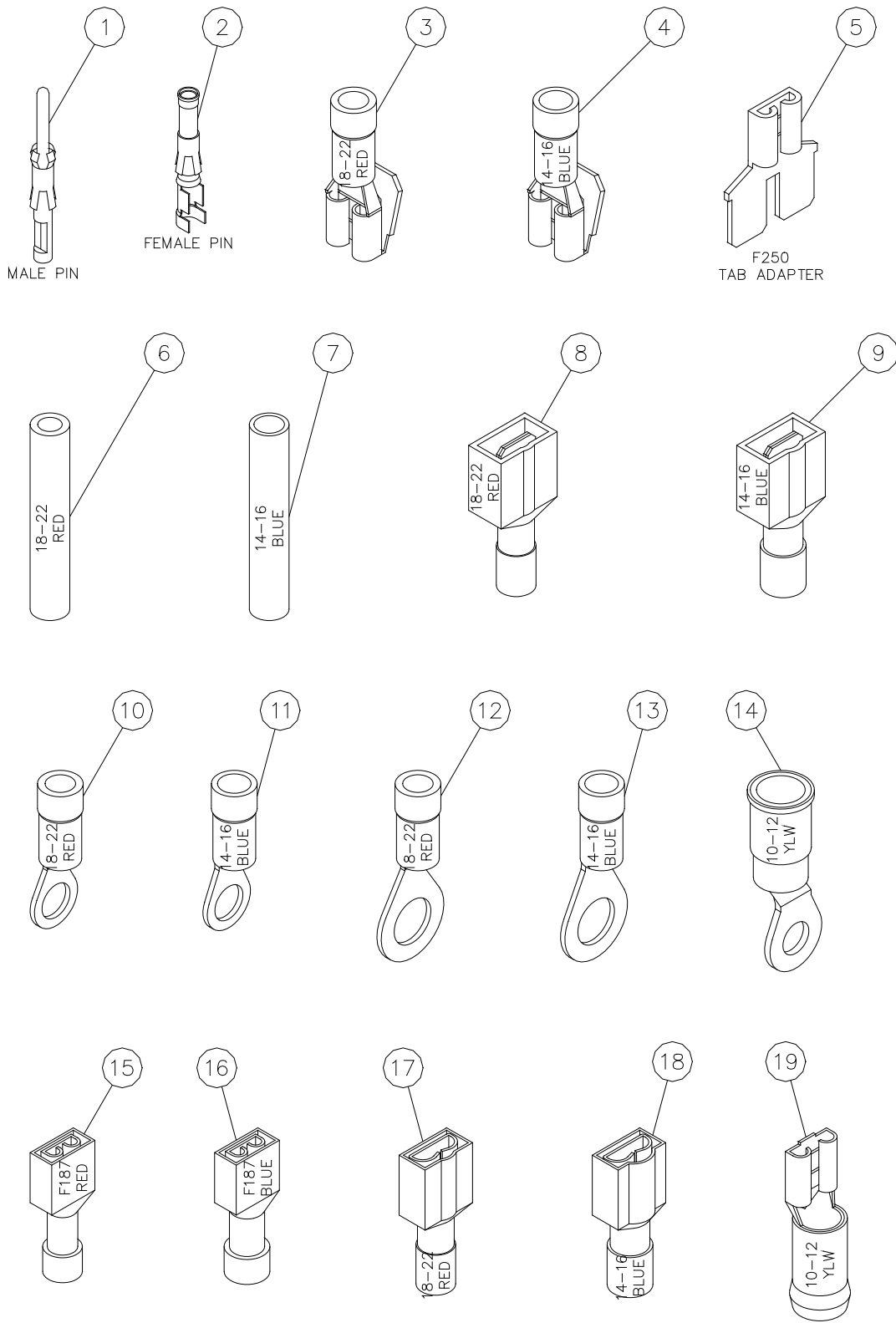
6. 096052, Exploded Parts List Dispenser Assembly, BFDSA-2



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. 330447 Wiring Diagram List, Double Dispenser BFDSA-2

Wiring List - PURELY NATURAL DOUBLE DISPENSER, BFDSA-2 PART # 330447A							
No.	Part#	Color	Ga	Length	From Conn.	SERIES 1 ToConn.	From Location To Location
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)
4		BLK	16	12"	F250 #14-#16	F250 #14-#16	TERMINAL BLOCK (LH TAB) STOP SWITCH COM (LH)
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"	F250 #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"	F250 #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)
31		ORG	16	9"	PIGG #14-#16	F250 #14-#16	HEAD SOLENOID A (RH) START SWITCH LIGHT TOP TAB (RH)
44	064026	BRN	16	96"	F250 #14-#16	F250 #14-#16	RINSE SWITCH WHITE NO (LH) RINSE SOLENOID VALVE (LH)
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	080377	BLK	18	FULL 72"	PIGG #18-#22	PLUG	RINSE SWITCH BLACK COM (LH) OZONE GENERATOR - TRIGGER LEAD
49	080377	BLK	18	FULL 72"	PIGG #18-#22	PLUG	RINSE SWITCH BLACK NO (LH) OZONE GENERATOR - TRIGGER LEAD
50		BLK	16	24"	F250 #14-#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".

NOTE: PRESET THE NEW TIMER BEFORE INSTALL.
RANGE SET AT 10S.
MODE SET AT B.
DIAL SET AT 0 - 18.
SEE DIAGRAM BELOW.