ROGERS SPRAYERS INC.

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FY1500

1.5m Farm Yard Sprayer

Assembly, Parts and Operator's Manual

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Visit our website, www.rogerssprayers.com, for additional models.

Minimize Chemical Drift

The ***Windfoil*** sprayer has been designed in wind tunnels to control airflow around and behind the sprayer to minimize drift, allowing safe spraying in windy conditions. Drift can blow off a field after it has been sprayed, especially in high winds. Reasonable caution should be taken, in order to spray effectively and safely. **For maximum drift control, keep curtain in contact with the canopy**

Nozzles

The FY1000 and FY1500 are equipped with 80º spray tips respectively, spaced at 16". Tips are mounted with self-aligning ¼ turn caps for easy removal or change.

Trouble Shooting

If dripping occurs, caused by the diaphragm not seating properly, the diaphragm may be hard, cracked, or the seating may be damaged.

Cleaning

Sprayers need to be cleaned to prevent corrosion, to prevent cross contamination of chemicals, and to prevent any grit or solids in the liquid that will reduce pressure. Flush with clean water, preferably after each day's operation. Rinse the outside of the sprayer.

Winterizing

After the sprayer is thoroughly cleaned, put 2 to 5 quarts of rust inhibitor or antifreeze in the tank for final system flushing to help prevent corrosion.

Calibration

To calibrate, operate the sprayer at the desired pressure. Collect the output from each nozzle for 60 seconds, using an accurate measuring cup. Record the output from each nozzle. Replace nozzles that are more than 5% above or below the average reading, or have a visibly distorted spray pattern.

Run a speed test in the area to be sprayed, with a full tank. The sprayer must be at operating speed before starting the test run. To determine the speed, mark off a distance as found on one of the tables below. Spray this distance, carefully noting and recording the time to cover the distance. The actual speed can be found for the specific distance traveled and time to travel, using the table.

After the nozzles have been individually checked, the sprayer should be calibrated to determine the correct speed for the desired application volume. To get area covered, multiply the width [FY1000, 52"(1m), FY1500, 64"(1.5m)] X distance.

Table 1: Time in seconds to travel a distance of:

Mph	10'	25'	50'	100'
2.5	2.7	6.8	13.6	27.3
3	2.3	5.7	11.4	22.7
4	1.7	4.3	8.5	17.0

Table 2: Time in seconds to travel a distance of:

Km/h	10m	25m	50m	100m
3	12.0	30.0	60.0	120.0
4	9.0	22.5	45.0	90.0
5	7.2	18.0	36.0	72.0

Application Rate Tables

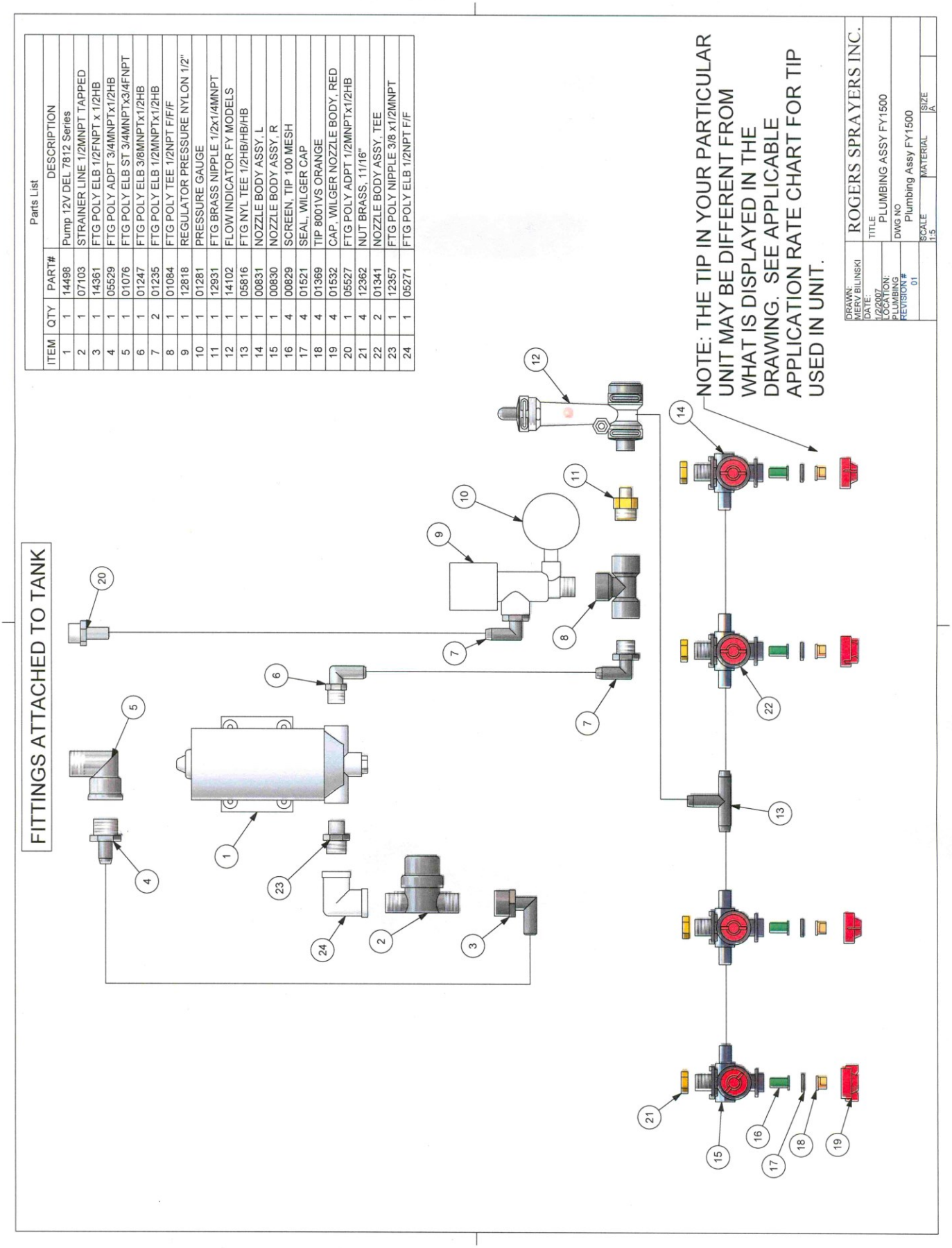
Table 3: API Nozzle Application Rates for 16” (40cm) Spacing

Rogers Part #	Tip Number	Liquid Press psi	Capacity 1 nozzle gpm	U. S. GALLONS PER ACRE 2.5 mph	3 mph	4 mph	5 mph	7 mph	U. S. GALLONS PER 1000 SQ FT 2.5 mph	3 mph	4 mph	5 mph	7 mph	Press bars
05872	800067SS (200 mesh)	30	0.058	8.6	7.2	5.4	4.3	3.1	0.20	0.16	0.12	0.10	0.07	2.07
		40	0.067	9.9	8.3	6.2	5.0	3.6	0.23	0.19	0.14	0.11	0.08	2.76
		50	0.075	11.1	9.3	7.0	5.6	4.0	0.25	0.21	0.16	0.13	0.09	3.45
		60	0.082	12.2	10.2	7.6	6.1	4.4	0.28	0.23	0.17	0.14	0.10	4.14
01369	8001VS (100 mesh)	30	0.087	12.9	10.7	8.0	6.4	4.6	0.29	0.25	0.18	0.15	0.11	2.07
		40	0.100	14.9	12.4	9.3	7.4	5.3	0.34	0.28	0.21	0.17	0.12	2.76
		50	0.112	16.6	13.8	10.4	8.3	5.9	0.38	0.32	0.24	0.19	0.14	3.45
		60	0.122	18.2	15.2	11.4	9.1	6.5	0.42	0.35	0.26	0.21	0.15	4.14
00827	80015VS	30	0.130	19.3	16.1	12.1	9.6	6.9	0.44	0.37	0.28	0.22	0.16	2.07
	or	40	0.150	22.3	18.6	13.9	11.1	8.0	0.51	0.43	0.32	0.26	0.18	2.76
13351	API-80015	50	0.168	24.9	20.8	15.6	12.5	8.9	0.57	0.48	0.36	0.29	0.20	3.45
	(100 mesh)	60	0.184	27.3	22.7	17.1	13.6	9.7	0.62	0.52	0.39	0.31	0.22	4.14
05876	8002VS	30	0.173	25.7	21.4	16.1	12.9	9.2	0.59	0.49	0.37	0.29	0.21	2.07
	or	40	0.200	29.7	24.8	18.6	14.9	10.6	0.68	0.57	0.43	0.34	0.24	2.76
12422	API-8002	50	0.224	33.2	27.7	20.8	16.6	11.9	0.76	0.63	0.48	0.38	0.27	3.45
	(50 mesh)	60	0.245	36.4	30.3	22.7	18.2	13.0	0.83	0.69	0.52	0.42	0.30	4.14
05877	8003VS	30	0.260	38.6	32.2	24.1	19.3	13.8	0.88	0.74	0.55	0.44	0.32	2.07
	or	40	0.300	44.6	37.1	27.8	22.3	15.9	1.02	0.85	0.64	0.51	0.36	2.76
13352	API-8003	50	0.335	49.8	41.5	31.1	24.9	17.8	1.14	0.95	0.71	0.57	0.41	3.45
	(50 mesh)	60	0.367	54.6	45.5	34.1	27.3	19.5	1.25	1.04	0.78	0.62	0.45	4.14
05878	8004VS	30	0.346	51.4	42.9	32.2	25.7	18.4	1.18	0.98	0.74	0.59	0.42	2.07
	or	40	0.400	59.4	49.5	37.1	29.7	21.2	1.36	1.13	0.85	0.68	0.49	2.76
12423	API-8004	50	0.447	66.4	55.3	41.5	33.2	23.7	1.52	1.27	0.95	0.76	0.54	3.45
	(50 mesh)	60	0.490	72.7	60.6	45.5	36.4	26.0	1.67	1.39	1.04	0.83	0.59	4.14
05879	8005VS	30	0.433	64.3	53.6	40.2	32.2	23.0	1.47	1.23	0.92	0.74	0.53	2.07
	or	40	0.500	74.3	61.9	46.4	37.1	26.5	1.70	1.42	1.06	0.85	0.61	2.76
12424	API-8005	50	0.559	83.0	69.2	51.9	41.5	29.6	1.90	1.58	1.19	0.95	0.68	3.45
	(50 mesh)	60	0.612	90.9	75.8	56.8	45.5	32.5	2.08	1.74	1.30	1.04	0.74	4.14
05880	8006VS	30	0.520	77.2	64.3	48.2	38.6	27.6	1.77	1.47	1.10	0.88	0.63	2.07
	or	40	0.600	89.1	74.3	55.7	44.6	31.8	2.04	1.70	1.28	1.02	0.73	2.76
12425	API-8006	50	0.671	99.6	83.0	62.3	49.8	35.6	2.28	1.90	1.43	1.14	0.81	3.45
	(50 mesh)	60	0.735	109.1	90.9	68.2	54.6	39.0	2.50	2.08	1.56	1.25	0.89	4.14
05881	8008VS	30	0.693	102.9	85.7	64.3	51.4	36.7	2.36	1.96	1.47	1.18	0.84	2.07
	(50 mesh)	40	0.800	118.8	99.0	74.3	59.4	42.4	2.72	2.27	1.70	1.36	0.97	2.76
		50	0.894	132.8	110.7	83.0	66.4	47.4	3.04	2.53	1.90	1.52	1.09	3.45
		60	0.980	145.5	121.2	90.9	72.7	52.0	3.33	2.78	2.08	1.67	1.19	4.14
13674	MR8010	30	0.866	128.6	107.2	80.4	64.3	45.9	2.94	2.45	1.84	1.47	1.05	2.07
	(50 mesh)	40	1.000	148.5	123.8	92.8	74.3	53.0	3.40	2.83	2.13	1.70	1.21	2.76
		50	1.118	166.0	138.4	103.8	83.0	59.3	3.80	3.17	2.38	1.90	1.36	3.45
		60	1.225	181.9	151.6	113.7	90.9	65.0	4.16	3.47	2.60	2.08	1.49	4.14
14010	MR8015	30	1.299	192.9	160.8	120.6	96.5	68.9	4.42	3.68	2.76	2.21	1.58	2.07
	(50 mesh)	40	1.500	222.8	185.6	139.2	111.4	79.6	5.10	4.25	3.19	2.55	1.82	2.76
		50	1.677	249.0	207.5	155.7	124.5	88.9	5.70	4.75	3.56	2.85	2.04	3.45
		60	1.837	272.8	227.3	170.5	136.4	97.4	6.25	5.21	3.90	3.12	2.23	4.14
14195	MR8020	30	1.732	257.2	214.3	160.8	128.6	91.9	5.89	4.91	3.68	2.94	2.10	2.07
	(50 mesh)	40	2.000	297.0	247.5	185.6	148.5	106.1	6.80	5.67	4.25	3.40	2.43	2.76
		50	2.236	332.1	276.7	207.5	166.0	118.6	7.60	6.34	4.75	3.80	2.72	3.45
		60	2.449	363.7	303.1	227.3	181.9	129.9	8.33	6.94	5.21	4.16	2.97	4.14

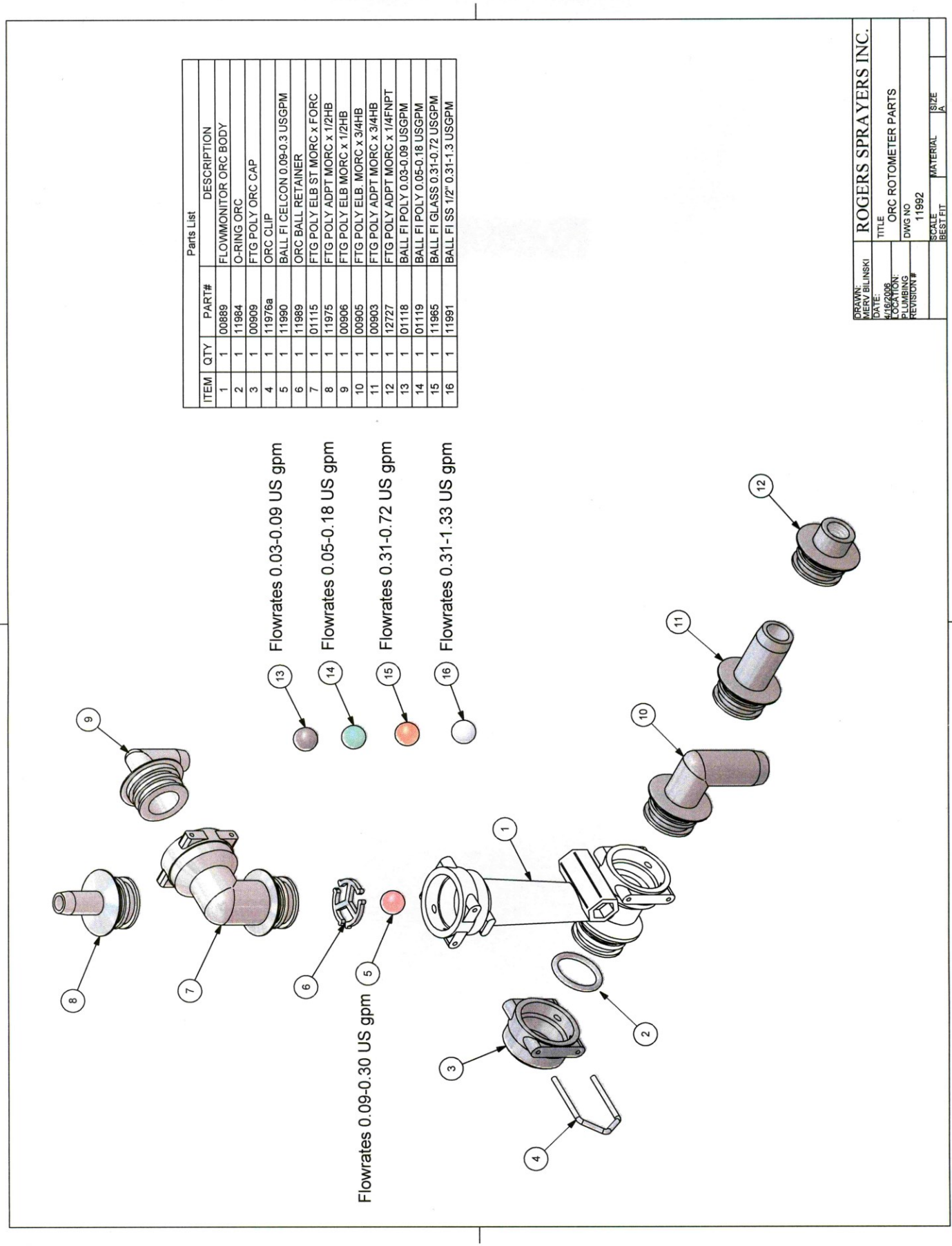
Electrical Assembly

Item	Description	Part #	Qty
1	Battery Clamp, Red	13257	1
2	Battery Clamp, Black	13256	1
3	Fuse, Blade, 10A, 12V	05106	1
4	Fuse Holder, Blade Type, Inline	01268	1
6	Butt Connector, 14-16Ga, Insulated	09323	2
7	Heat Shrink	12297	2
8	Cable, 14/2X180, Black, Rubber Jacketed	13325	1
9	Ring Connector, 14/16GaX.170	01303	2
10	Switch Handle, FY1000	13323	1
11	Heat Shrink	12298	1
12	Toggle Switch, 6V/35A	13324	1
13	Switch Boot, Rubber	12736	1
14	Connector Kit, Weather-Pak, 2M/F	11823	1

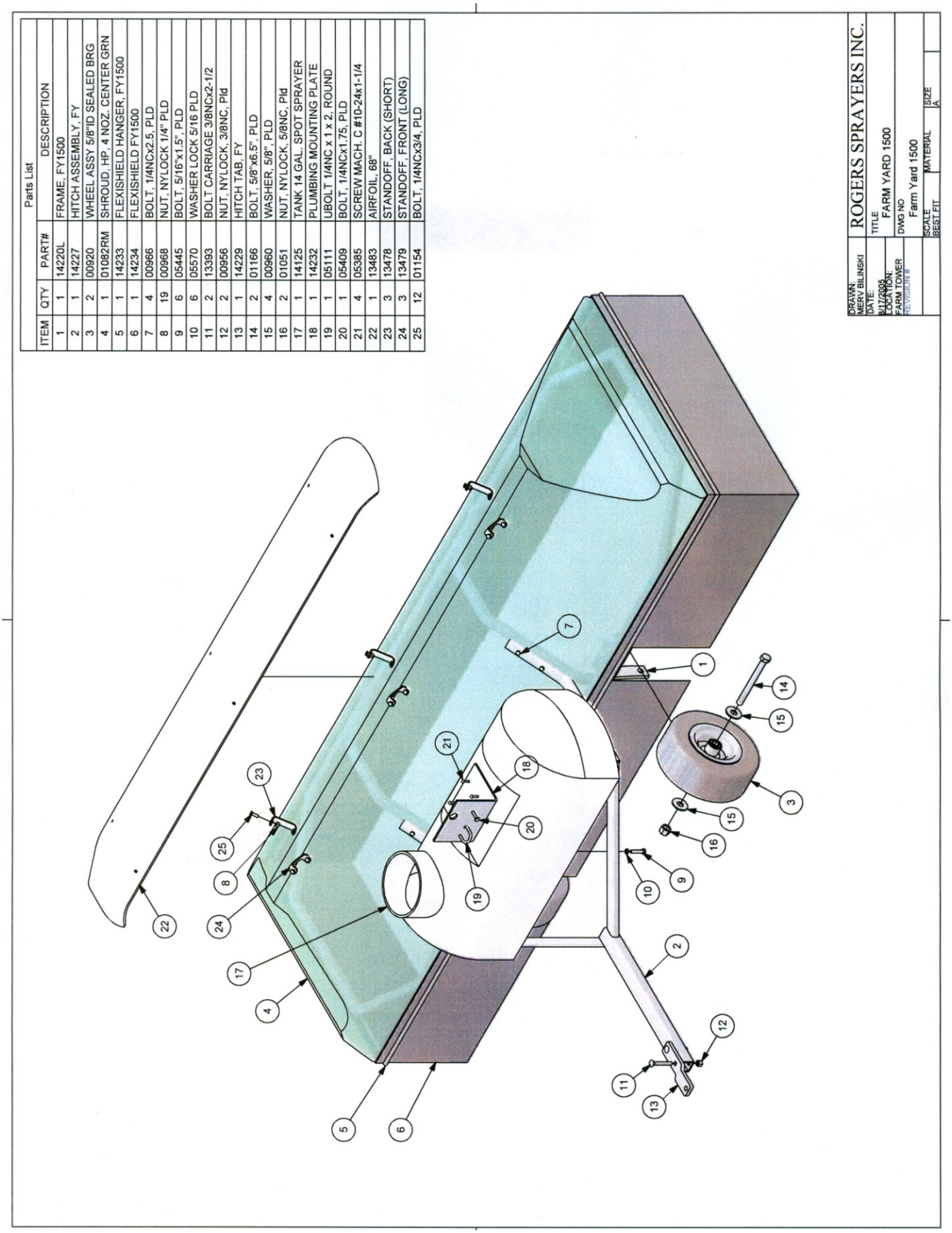
Plumbing Assembly



ORC Assembly



General Assembly



Parts List

ITEM	QTY	PART#	DESCRIPTION
1	1	14220L	FRAME, FY1500
2	1	14227	HITCH ASSEMBLY, FY
3	2	00920	WHEEL ASSY 5/8"ID SEALED BRG
4	1	01082RM	SHROUD, HP, 4 NOZ, CENTER GRN
5	1	14233	FLEXISHIELD HANGER, FY1500
6	1	14234	FLEXISHIELD FY1500
7	4	00966	BOLT, 1/4NCx2.5, PLD
8	19	00968	NUT, NYLOCK 1/4" PLD
9	6	05445	BOLT, 5/16"x1.5", PLD
10	6	05570	WASHER LOCK 5/16 PLD
11	2	13393	BOLT CARRIAGE 3/8NCx2-1/2
12	2	00956	NUT, NYLOCK, 3/8NC, Pld
13	1	14229	HITCH TAB, FY
14	2	01166	BOLT, 5/8"x6.5", PLD
15	4	00960	WASHER, 5/8", PLD
16	2	01051	NUT, NYLOCK, 5/8NC, Pld
17	1	14125	TANK 14 GAL. SPOT SPRAYER
18	1	14232	PLUMBING MOUNTING PLATE
19	1	05111	UBOLT 1/4NC x 1 x 2, ROUND
20	1	05409	BOLT, 1/4NCx1.75, PLD
21	4	05385	SCREW MACH. C #10-24x1-1/4
22	1	13483	AIRFOIL, 68"
23	3	13478	STANDOFF, BACK (SHORT)
24	3	13479	STANDOFF, FRONT (LONG)
25	12	01154	BOLT, 1/4NCx3/4, PLD

DRAWN: MERV BILINSKI
DATE: 8/17/2005
LOCATION: FARM TOWER
REVISION #

ROGERS SPRAYERS INC.

TITLE: FARM YARD 1500

DWG NO: Farm Yard 1500

SCALE: BEST FIT | MATERIAL | SIZE: A

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