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# TM4 - TM6 Windfoil 4 & 6-ft Tractor Mount Sprayer



## Assembly, Parts and Operator's Manual

Version TM-1405

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## Safety

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Many people die or suffer serious injury in job related accidents every year due to carelessness. Know your machinery and be aware of potential hazards. Put safety first in all your operations.

Review all instructions and procedures outlined in this manual annually. Every operator must familiarize himself with the operating instructions of the sprayer.

### Operational Safety

Shut down sprayer and power unit and wait for all parts to stop before adjusting, cleaning, or lubricating the power unit or sprayer.

Before spraying a field familiarize yourself with any rocks, debris, trees, ditches or gullies that may be potentially dangerous. Plan the spraying route to avoid these hazards.

Spray only chemicals that unit was designed for, (ie turf application). Do not use products for which unit was not designed, (ie PAINT, sealants, cleaning fluids, dust inhibitors, ice surfaces).

#### Minimize Chemical Drift

The **Windfoil** sprayer was designed in a wind tunnel to control air flow around and behind the sprayer minimizing drift to allow safer 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 ground to ensure a seal to it. Drift control of the *Windfoil* is less effective when the wind blows the curtain off the crop canopy breaking the seal between the curtain and the crop.**

## General Spraying Information

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### Application Tips

Always use clean filtered water in the sprayer tank.

Your **Windfoil** Drift Containment Spray System (DCSS) comes standard with stainless steel insert tips. Please contact your manufacturer or see the application rate table in this manual for various sizes of tips available for your machine.

Check the flow rate from all nozzles using the capacity calibration technique; see the Calibration section for tables and instructions. Use clean filtered water for all calibration testing. Adjust the sprayer pressure to get the proper flow rate. The flow meters are not accurate enough in absolute terms to be used as a flow meter. In relative terms they are very accurate.

<b>Caution:</b>	Conventional tips are rated at 40 psi (3 bar), for example a 8004 tip at 40 psi (3 bar) delivers 0.4 US gal/min (1.5 litres/min) . Only conventional 80° tips are recommended for the <b>Windfoil TM</b> series. Wider angle tips (110°) have a wider pattern than 80° and will hit the curtain at the ends of the boom and are not recommended.
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## Nozzles

Despite being the most important component for accurate uniform spraying application, nozzles are often neglected and abused.

Nozzle flow rate depends on effective orifice size and pressure. Spray tip manufacturers have supplied tables of nozzle application rates at various pressures, for the best results it is recommended that you follow these guidelines.

The rule of thumb is that as you increase the pressure to your unit the average droplet size decreases. Normally with conventional open boom sprayers large droplets are used to control drift but large droplets can roll off plants without sticking. With the **Windfoil** covered spray system you will be able spray with smaller droplets, increase coverage and not worry about drift.

The spray patterns must overlap for even coverage but should not interfere with one another. Nozzles are set at a 10° angle so that one edge of its pattern will be just behind the edge of its adjacent spray pattern, evading interference with each other.

Typically as a tip wears the spray pattern distorts output volumes usually increase and the droplet characteristics change. Recalibration may correct for output changes, but cannot correct for spray pattern changes or the drop size generated.

<b>Caution:</b>	When spraying next to a flower bed, do not spray over the turf edge as the spray will go under the curtain and onto the flowers.
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## Diaphragm Check Valve Nozzle Bodies

Diaphragm check valves close at approximately 15 psi (1 bar) to prevent excessive dripping. Should the cap on the valve loosen or the check valve diaphragm become misaligned, the body may leak. Stop the leak by, tightening the check valve cap or remove the cap and inspect the seal for damage or improper assembly.

To check for defective check valves when the spraying stop control has been actuated, the volume that drips from each nozzle should not exceed 2ml timed over a 5 minute period. The measuring is to start 8 seconds after the flow to the spray boom is shut off.

Nozzle caps are attached by engaging the cap and turning clockwise about a third of a turn. Self-aligning caps have a slot to align the tips. Ensure that the tips fit down into the slotted hole before installing caps on the diaphragm nozzle body assembly with the tip screens.

Non-aligning caps are also available for special tips.

## Calibration

As a tip wears recalibration may be required. Collect the output from each nozzle for 60 seconds, using an accurate measuring cup. Use clear water for all testing. Record the output from each nozzle. Replace nozzles that are more than 5% above or below the average reading, or has a visibly distorted pattern.

## Application Rates, 12" Spacing

### 80 Deg. Tips

Rogers Part #	Tip Number	Liquid Press psi	Capacity 1 nozzle gpm	U. S. GALLONS PER ACRE					U. S. GALLONS PER 1000 SQ. FT.					Press bars
				2.5	3	4	5	7	2.5	3	4	5	7	
				mph	mph	mph	mph	mph	mph	mph	mph	mph	mph	
05872	800067SS (200 mesh)	30	0.058	11.5	9.6	7.2	5.7	4.1	0.26	0.22	0.16	0.13	0.09	2.07
		40	0.067	13.3	11.1	8.3	6.6	4.7	0.30	0.25	0.19	0.15	0.11	2.76
		50	0.075	14.8	12.4	9.3	7.4	5.3	0.34	0.28	0.21	0.17	0.12	3.45
		60	0.082	16.2	13.5	10.2	8.1	5.8	0.37	0.31	0.23	0.19	0.13	4.14
01369	8001VS (100 mesh)	30	0.087	17.1	14.3	10.7	8.6	6.1	0.39	0.33	0.25	0.20	0.14	2.07
		40	0.100	19.8	16.5	12.4	9.9	7.1	0.45	0.38	0.28	0.23	0.16	2.76
		50	0.112	22.1	18.4	13.8	11.1	7.9	0.51	0.42	0.32	0.25	0.18	3.45
		60	0.122	24.2	20.2	15.2	12.1	8.7	0.56	0.46	0.35	0.28	0.20	4.14
00827 13351	80015VS or API-80015 (100 mesh)	30	0.130	25.7	21.4	16.1	12.9	9.2	0.59	0.49	0.37	0.29	0.21	2.07
		40	0.150	29.7	24.8	18.6	14.9	10.6	0.68	0.57	0.43	0.34	0.24	2.76
		50	0.168	33.2	27.7	20.8	16.6	11.9	0.76	0.63	0.48	0.38	0.27	3.45
		60	0.184	36.4	30.3	22.7	18.2	13.0	0.83	0.69	0.52	0.42	0.30	4.14
05876 14384	8002VS or AXI-8002 (50 mesh)	30	0.173	34.3	28.6	21.4	17.1	12.2	0.79	0.65	0.49	0.39	0.28	2.07
		40	0.200	39.6	33.0	24.8	19.8	14.1	0.91	0.76	0.57	0.45	0.32	2.76
		50	0.224	44.3	36.9	27.7	22.1	15.8	1.01	0.84	0.63	0.51	0.36	3.45
		60	0.245	48.5	40.4	30.3	24.2	17.3	1.11	0.93	0.69	0.56	0.40	4.14
05877 14385	8003VS or AXI-8003 (50 mesh)	30	0.260	51.4	42.9	32.2	25.7	18.4	1.18	0.98	0.74	0.59	0.42	2.07
		40	0.300	59.4	49.5	37.1	29.7	21.2	1.36	1.13	0.85	0.68	0.49	2.76
		50	0.335	66.4	55.3	41.5	33.2	23.7	1.52	1.27	0.95	0.76	0.54	3.45
		60	0.367	72.7	60.6	45.5	36.4	26.0	1.67	1.39	1.04	0.83	0.59	4.14
05878 14061	8004VS or AXI-8004 (50 mesh)	30	0.346	68.6	57.2	42.9	34.3	24.5	1.57	1.31	0.98	0.79	0.56	2.07
		40	0.400	79.2	66.0	49.5	39.6	28.3	1.81	1.51	1.13	0.91	0.65	2.76
		50	0.447	88.5	73.8	55.3	44.3	31.6	2.03	1.69	1.27	1.01	0.72	3.45
		60	0.490	97.0	80.8	60.6	48.5	34.6	2.22	1.85	1.39	1.11	0.79	4.14
05879 14386	8005VS or AXI-8005 (50 mesh)	30	0.433	85.7	71.4	53.6	42.9	30.6	1.96	1.64	1.23	0.98	0.70	2.07
		40	0.500	99.0	82.5	61.9	49.5	35.4	2.27	1.89	1.42	1.13	0.81	2.76
		50	0.559	110.7	92.2	69.2	55.3	39.5	2.53	2.11	1.58	1.27	0.91	3.45
		60	0.612	121.2	101.0	75.8	60.6	43.3	2.78	2.31	1.74	1.39	0.99	4.14
05880 14387	8006VS or AXI-8006 (50 mesh)	30	0.520	102.9	85.7	64.3	51.4	36.7	2.36	1.96	1.47	1.18	0.84	2.07
		40	0.600	118.8	99.0	74.3	59.4	42.4	2.72	2.27	1.70	1.36	0.97	2.76
		50	0.671	132.8	110.7	83.0	66.4	47.4	3.04	2.53	1.90	1.52	1.09	3.45
		60	0.735	145.5	121.2	90.9	72.7	52.0	3.33	2.78	2.08	1.67	1.19	4.14
05881	8008VS (50 mesh)	30	0.693	137.2	114.3	85.7	68.6	49.0	3.14	2.62	1.96	1.57	1.12	2.07
		40	0.800	158.4	132.0	99.0	79.2	56.6	3.63	3.02	2.27	1.81	1.30	2.76
		50	0.894	177.1	147.6	110.7	88.5	63.2	4.05	3.38	2.53	2.03	1.45	3.45
		60	0.980	194.0	161.7	121.2	97.0	69.3	4.44	3.70	2.78	2.22	1.59	4.14
13674	MR8010 (50 mesh)	30	0.866	171.5	142.9	107.2	85.7	61.2	3.93	3.27	2.45	1.96	1.40	2.07
		40	1.000	198.0	165.0	123.8	99.0	70.7	4.53	3.78	2.83	2.27	1.62	2.76
		50	1.118	221.4	184.5	138.4	110.7	79.1	5.07	4.22	3.17	2.53	1.81	3.45
		60	1.225	242.5	202.1	151.6	121.2	86.6	5.55	4.63	3.47	2.78	1.98	4.14
14010	MR8015 (50 mesh)	30	1.299	257.2	214.3	160.8	128.6	91.9	5.89	4.91	3.68	2.94	2.10	2.07
		40	1.500	297.0	247.5	185.6	148.5	106.1	6.80	5.67	4.25	3.40	2.43	2.76
		50	1.677	332.1	276.7	207.5	166.0	118.6	7.60	6.34	4.75	3.80	2.72	3.45
		60	1.837	363.7	303.1	227.3	181.9	129.9	8.33	6.94	5.21	4.16	2.97	4.14
14195	MR8020 (50 mesh)	30	1.732	342.9	285.8	214.3	171.5	122.5	7.85	6.54	4.91	3.93	2.80	2.07
		40	2.000	396.0	330.0	247.5	198.0	141.4	9.07	7.56	5.67	4.53	3.24	2.76
		50	2.236	442.7	369.0	276.7	221.4	158.1	10.14	8.45	6.34	5.07	3.62	3.45
		60	2.449	485.0	404.2	303.1	242.5	173.2	11.10	9.25	6.94	5.55	3.97	4.14

## Application Rates, 12" Spacing

### 80 Deg. Tips

Rogers Part #	Tip Number	Liquid Press psi	Capacity 1 nozzle gpm	U. S. GALLONS PER ACRE					Liters/Hectare (L/Ha)					Press bars
				2.5	3	4	5	7	4	4.8	6.4	8	11.2	
				mph	mph	mph	mph	mph	kph	kph	kph	kph	kph	
05872	800067SS (200 mesh)	30	0.058	11.5	9.6	7.2	5.7	4.1	107.42	89.52	67.14	53.71	38.36	0.28
		40	0.067	13.3	11.1	8.3	6.6	4.7	124.04	103.36	77.52	62.02	44.30	0.33
		50	0.075	14.8	12.4	9.3	7.4	5.3	138.68	115.56	86.67	69.34	49.53	0.37
		60	0.082	16.2	13.5	10.2	8.1	5.8	151.91	126.59	94.95	75.96	54.25	0.40
01369	8001VS (100 mesh)	30	0.087	17.1	14.3	10.7	8.6	6.1	160.33	133.61	100.20	80.16	57.26	0.42
		40	0.100	19.8	16.5	12.4	9.9	7.1	185.13	154.28	115.71	92.57	66.12	0.49
		50	0.112	22.1	18.4	13.8	11.1	7.9	206.98	172.48	129.36	103.49	73.92	0.55
		60	0.122	24.2	20.2	15.2	12.1	8.7	226.74	188.95	141.71	113.37	80.98	0.60
00827	80015VS or	30	0.130	25.7	21.4	16.1	12.9	9.2	240.49	200.41	150.31	120.25	85.89	0.63
		40	0.150	29.7	24.8	18.6	14.9	10.6	277.70	231.41	173.56	138.85	99.18	0.73
13351	API-80015 (100 mesh)	50	0.168	33.2	27.7	20.8	16.6	11.9	310.47	258.73	194.05	155.24	110.88	0.82
		60	0.184	36.4	30.3	22.7	18.2	13.0	340.11	283.42	212.57	170.05	121.47	0.90
05876	8002VS or	30	0.173	34.3	28.6	21.4	17.1	12.2	320.65	267.21	200.41	160.33	114.52	0.85
		40	0.200	39.6	33.0	24.8	19.8	14.1	370.26	308.55	231.41	185.13	132.24	0.98
14384	AXI-8002 (50 mesh)	50	0.224	44.3	36.9	27.7	22.1	15.8	413.96	344.97	258.73	206.98	147.84	1.09
		60	0.245	48.5	40.4	30.3	24.2	17.3	453.47	377.90	283.42	226.74	161.96	1.20
05877	8003VS or	30	0.260	51.4	42.9	32.2	25.7	18.4	480.98	400.82	300.61	240.49	171.78	1.27
		40	0.300	59.4	49.5	37.1	29.7	21.2	555.39	462.83	347.12	277.70	198.35	1.46
14385	AXI-8003 (50 mesh)	50	0.335	66.4	55.3	41.5	33.2	23.7	620.94	517.45	388.09	310.47	221.77	1.64
		60	0.367	72.7	60.6	45.5	36.4	26.0	680.21	566.84	425.13	340.11	242.93	1.79
05878	8004VS or	30	0.346	68.6	57.2	42.9	34.3	24.5	641.31	534.42	400.82	320.65	229.04	1.69
		40	0.400	79.2	66.0	49.5	39.6	28.3	740.52	617.10	462.83	370.26	264.47	1.95
14061	AXI-8004 (50 mesh)	50	0.447	88.5	73.8	55.3	44.3	31.6	827.93	689.94	517.45	413.96	295.69	2.18
		60	0.490	97.0	80.8	60.6	48.5	34.6	906.95	755.79	566.84	453.47	323.91	2.39
05879	8005VS or	30	0.433	85.7	71.4	53.6	42.9	30.6	801.64	668.03	501.02	400.82	286.30	2.11
		40	0.500	99.0	82.5	61.9	49.5	35.4	925.65	771.38	578.53	462.83	330.59	2.44
14386	AXI-8005 (50 mesh)	50	0.559	110.7	92.2	69.2	55.3	39.5	1034.91	862.42	646.82	517.45	369.61	2.73
		60	0.612	121.2	101.0	75.8	60.6	43.3	1133.69	944.74	708.55	566.84	404.89	2.99
05880	8006VS or	30	0.520	102.9	85.7	64.3	51.4	36.7	961.96	801.64	601.23	480.98	343.56	2.54
		40	0.600	118.8	99.0	74.3	59.4	42.4	1110.78	925.65	694.24	555.39	396.71	2.93
14387	AXI-8006 (50 mesh)	50	0.671	132.8	110.7	83.0	66.4	47.4	1241.89	1034.91	776.18	620.94	443.53	3.27
		60	0.735	145.5	121.2	90.9	72.7	52.0	1360.42	1133.69	850.26	680.21	485.87	3.59
05881	8008VS (50 mesh)	30	0.693	137.2	114.3	85.7	68.6	49.0	1282.62	1068.85	801.64	641.31	458.08	3.38
		40	0.800	158.4	132.0	99.0	79.2	56.6	1481.04	1234.20	925.65	740.52	528.94	3.90
		50	0.894	177.1	147.6	110.7	88.5	63.2	1655.85	1379.88	1034.91	827.93	591.38	4.36
		60	0.980	194.0	161.7	121.2	97.0	69.3	1813.90	1511.58	1133.69	906.95	647.82	4.78
13674	MR8010 (50 mesh)	30	0.866	171.5	142.9	107.2	85.7	61.2	1603.27	1336.06	1002.05	801.64	572.60	4.23
		40	1.000	198.0	165.0	123.8	99.0	70.7	1851.30	1542.75	1157.06	925.65	661.18	4.88
		50	1.118	221.4	184.5	138.4	110.7	79.1	2069.82	1724.85	1293.64	1034.91	739.22	5.46
		60	1.225	242.5	202.1	151.6	121.2	86.6	2267.37	1889.48	1417.11	1133.69	809.78	5.98
14010	MR8015 (50 mesh)	30	1.299	257.2	214.3	160.8	128.6	91.9	2404.91	2004.09	1503.07	1202.45	858.90	6.34
		40	1.500	297.0	247.5	185.6	148.5	106.1	2776.95	2314.13	1735.59	1388.48	991.77	7.32
		50	1.677	332.1	276.7	207.5	166.0	118.6	3104.72	2587.27	1940.45	1552.36	1108.83	8.18
		60	1.837	363.7	303.1	227.3	181.9	129.9	3401.06	2834.21	2125.66	1700.53	1214.66	8.96
14195	MR8020 (50 mesh)	30	1.732	342.9	285.8	214.3	171.5	122.5	3206.55	2672.12	2004.09	1603.27	1145.19	8.45
		40	2.000	396.0	330.0	247.5	198.0	141.4	3702.60	3085.50	2314.13	1851.30	1322.36	9.76
		50	2.236	442.7	369.0	276.7	221.4	158.1	4139.63	3449.69	2587.27	2069.82	1478.44	10.91
		60	2.449	485.0	404.2	303.1	242.5	173.2	4534.74	3778.95	2834.21	2267.37	1619.55	11.95

Run a speed test in the area to be sprayed. The sprayer must be up to speed before starting the test run. To determine the speed mark off a distance as found on one of the tables. Push the sprayer over this distance carefully noting and recording the time to cover the distance. The speed traveled can be found for the specific distance and time to travel using the tables below.

After the nozzles have been individually checked and matched, the sprayer should be calibrated to determine the correct speed for the desired application volume. To get area covered multiply the width (TM4 – 4ft(1.22m), TM6 – 6ft(1.83m)) x distance).

**Table 3:** Time in Seconds to Travel Distance of:

	10	25	50	100	200
mph	(ft)	(ft)	(ft)	(ft)	(ft)
1	6.8	17.0	34.1	68.2	136.0
1.5	4.5	11.4	22.7	45.5	90.9
2	3.4	8.5	17.0	34.1	68.2
2.5	2.7	6.8	13.6	27.3	54.5
3	2.3	5.7	11.4	22.7	45.5
4	1.7	4.3	8.5	17.0	34.1
5	1.4	3.4	6.8	13.6	27.3
6	1.1	2.8	5.7	11.4	22.7

**Table 4:** Time in Seconds to Travel a Distance of:

	10	25	50	100	200
Km/h	(m)	(m)	(m)	(m)	(m)
1	36.0	90.0	180.0	360.0	720.0
1.5	24.0	60.0	120.0	240.0	480.0
2	18.0	45.0	90.0	180.0	360.0
2.5	14.4	36.0	72.0	144.0	288.0
3	12.0	30.0	60.0	120.0	240.0
4	9.0	22.5	45.0	90.0	180.0
5	7.2	18.0	36.0	72.0	144.0
6	6.0	15.0	30.0	60.0	120.0

**Note:** Tip pressure is usually less than the pressure at the pump. Losses occur in valves, hoses, etc. Always check the flow by the above calibration method.

## General Maintenance

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### Cleaning

Sprayers need to be cleaned to prevent corrosion and cross contamination of chemicals. Trace amounts of one chemical can react with another or carry over to the next spraying and cause crop damage, especially with pesticides. Long exposures with even small amounts of some chemicals can damage sprayer components either by corrosion or gum deposits. If you spray crops that are very susceptible to injury from the last chemical used (ie vegetables, turf, and ornamentals) clean the unit especially well.

Always try to end the day with an empty tank; avoid contamination of water supplies and injury to plants or animals. Do not make puddles that might be accessible to children, pets, farm animals, or wildlife. Flush with clean water preferably after each day's operation. If you plan to use the same material over several days most chemicals may be kept in the tank overnight, labels on the chemical usually indicates which may not. Rinse the outside of the sprayer. Surfactants combined with chemicals, when they are compatible, will provide some cleaning action in the sprayer.

Some chemical combinations (especially if oil is used) may produce a putty type paste (buttering out) in the sprayer tank and components; flushing with water after each load may prevent an accumulation. If water alone does not dissolve and remove the buildup, add solvent, kerosene, or other low flammable solvent; allow paste to dissolve, then agitate and flush. Next, flush with detergent and finally with clean water. Check with your chemical agent.

Whenever pesticides are changed, or before sprayer storage, clean sprayers thoroughly with a cleaning solution. The solution used depends on the chemical to be removed from the sprayer. Check the chemical label for cleaning instructions.

First flush with water, then add the cleaning solution to the tank and thoroughly agitate before flushing. Always flush with clean water to remove the cleaning solution. Remove nozzle tips and screens; clean them in a strong detergent solution or kerosene, using a soft brush such as an old toothbrush. Never use a metal probe to clean the orifice of a spray tip!

Follow the same safety precautions during cleaning as for applications. Use a respirator, rubber gloves, or other protective gear as may be directed by label instructions.

If a nozzle becomes blocked, turn the sprayer off. Note that the spray lines could still be pressurized therefore prior to removing the cap on the nozzle body, proper safety equipment should be worn, (ie gloves, eye protection, etc).

## Sunshine

Many plastic sprayer parts are degraded by ultra violet light, especially the nozzle flow indicators. Store the sprayer in the shade to extend the length of service.

## Winterizing

After the sprayer is thoroughly cleaned, put 2-5 gallons (7-19 litres) of rust inhibitor or antifreeze in the tank prior to the final flushing to help prevent corrosion. As the water is pumped from the sprayer, the antifreeze will leave a protective coating on the inside of the tank, pump, and plumbing. Remove nozzle tips, screens and no-drip valves (if used) and store them in a can of light oil such as diesel fuel or kerosene to prevent corrosion. Close nozzle openings with tape to prevent dirt, insects, mice, or other contaminants from entering.

During the final cleaning, completely check the sprayer. Look at the hoses, clamps, connections, nozzle tips, and screens for needed replacements. Store the sprayer in a reasonably clean and dry building.

## Last Check

- ⇒ Recheck all assembled parts for completeness and secure connections.
- ⇒ Your sprayer is now ready for a wet test, to ensure complete operation

## Operation

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Stainless Steel insert tips are supplied with the **Windfoil TM series**; it can also use ceramic, brass or plastic insert tips that give an actual 80° spray pattern.

With the unit fully assembled, attach the battery clips to the battery on your power unit. (be sure that the toggle switch on the handle bar is off, pump should not run once clips are on battery). (NOTE: red clip is for positive post on battery). With liquid in the tank, loosen the pressure regulator fully, ie loosen lock nut on regulator and turn top knob on pressure regulator counter clockwise. Next turn unit on by flipping the switch on, slowly tighten pressure regulator (turn clockwise) until pressure on gauge rises to 40 psi (3 bar). (NOTE: to obtain optimum pattern, you should always try and operate your spray nozzles as close to 40 psi (3bar) as possible). Due to losses in the system you might want to run your system at 42-43 psi, this should give you close to 40 psi at the tip. (NOTE: Be careful not to run the pump on an empty tank, this could cause a vapour lock in the system. To fix the problem, make sure there is something in the tank, remove the output supply hose on the pump and start the system, take precautions as your chemical will start coming through the pump, once the liquid starts flowing shut the system off, reconnect the line and continue spraying). Watch each of the balls in the flow indicator as you spray, they should all raise to an equal level. If they are not equal the lower ball(s) indicated tips that are plugged or partially plugged. Check and clean the appropriate tip(s). If the balls are right at the top, the flow rate is too high for them. Replace them with the required balls for the tips (see the flow monitor page).

Test the unit using clear water on a firm surface such as asphalt or concrete before using spray solution. This will illustrate the effectiveness of the individual spray patterns.

Note: As this is a self contained sprayer with a small tank and does not have a separate fresh water tank, it is recommended that when filling and working with chemicals a fresh water supply is always kept in close proximity for safety reasons.



## Maintenance

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Cleaning and flushing with clear water after using.

Do not leave water in the unit at freezing temperatures. When storing the sprayer at freezing temperatures, run some windshield washer antifreeze through to prevent ice damage in the plastic parts.

Avoid storage of your sprayer in direct sunlight for prolonged periods. Certain plastic parts on the **Windfoil™** are not UV resistant.

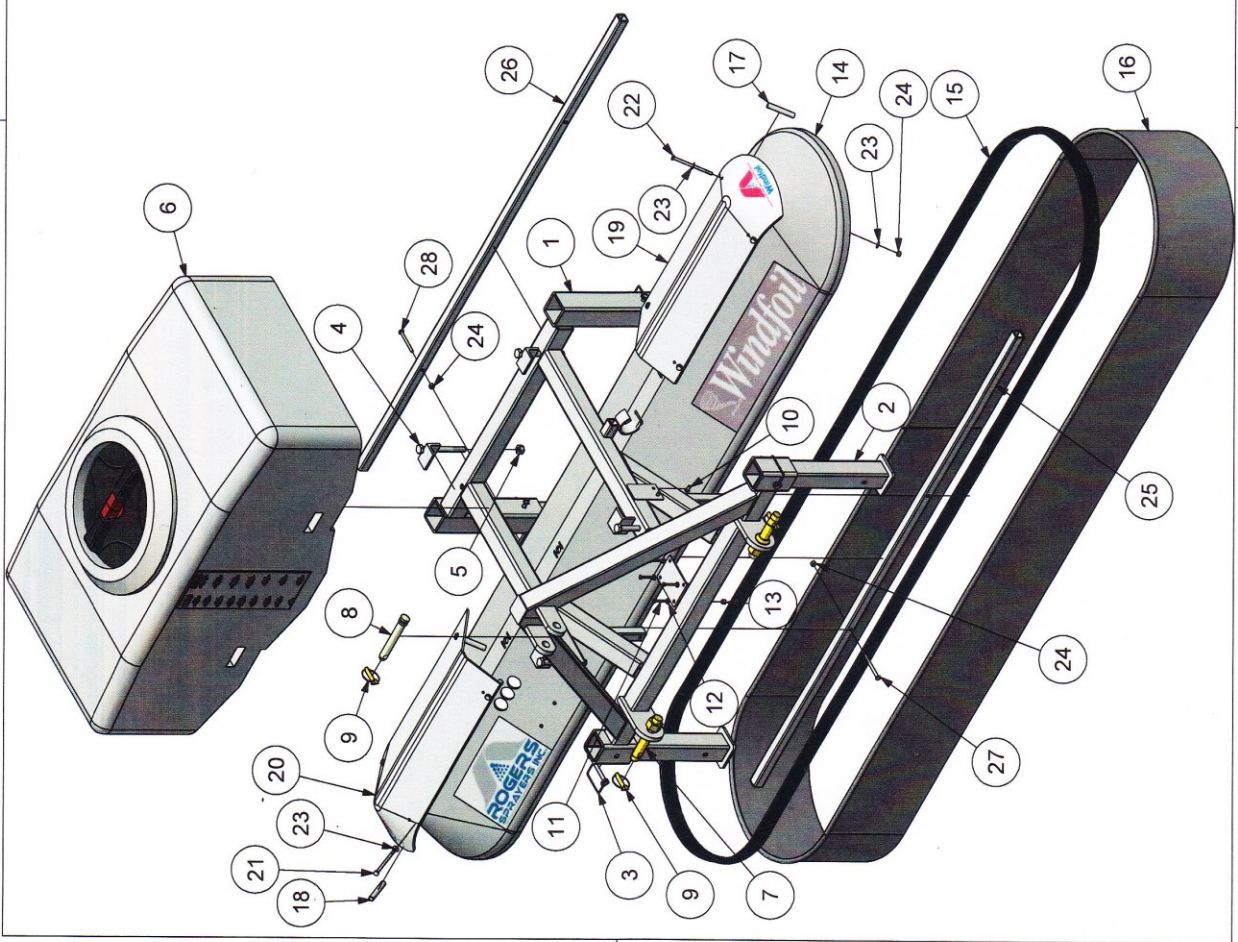
Keep the unit covered or stored indoors.

## Drawings and Replacement Parts

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See the following pages for a parts breakdown and accessories for your unit.

General Assembly TM6



PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	MAIN FRAME ASSEMBLY TM4/TM6
2	4	LEG ASSEMBLY TM SERIES
3	4	PIN STL SQ. WIRE LOCK 5/16x3-1/2
4	4	TANK LOCK ASSBY TM4/TM6
5	4	TANK RECT 50 USG, GRAY
6	1	NUT, NYLOCK, 1/2NC, PLD
7	2	PIN LOWER LINK
8	1	PIN TOP LINK, 3/4X-3-3/4"
9	3	PIN LYNCH STL .375 x 1.5"
10	2	BOLT M6-1.00 x 12MM
11	4	SCREW MACH. #10-24x1.5, TRUSS
12	4	WASHER FLAT #10
13	4	NUT, NYLOCK #10-24 PLD
14	1	SHROUD LP 80 GREY, TM6 PREP
15	1	FLEXISHIELD HANGER, 205"
16	1	FLEXISHIELD 9.625" x 205"
17	4	AIRFOIL STANDOFF BACK TUBE
18	4	AIRFOIL STANDOFF FRONT TUBE
19	1	AIRFOIL 24" L, TM6
20	1	AIRFOIL 24" R, TM6
21	4	BOLT, 1/4NCx4.5, PLD
22	4	BOLT, 1/4NCx4, PLD
23	18	WASHER FLAT, 1/4"
24	12	NUT NYLOCK 1/4" PLD
25	1	FRONT SHROUD SUPPORT TM6
26	1	REAR SHROUD SUPPORT TM
27	2	BOLT, 1/4NCx3, PLD
28	2	BOLT, 1/4NCx2.5, PLD

DRAWN:  
MELVIN BLINSKI  
DATE REVISION:  
12/06/2013

TITLE  
GENERAL ASSEMBLY TM6  
PROJECT:  
TM SERIES  
DATE CHECKED:  
15175

ROGERS SPRAYERS INC.

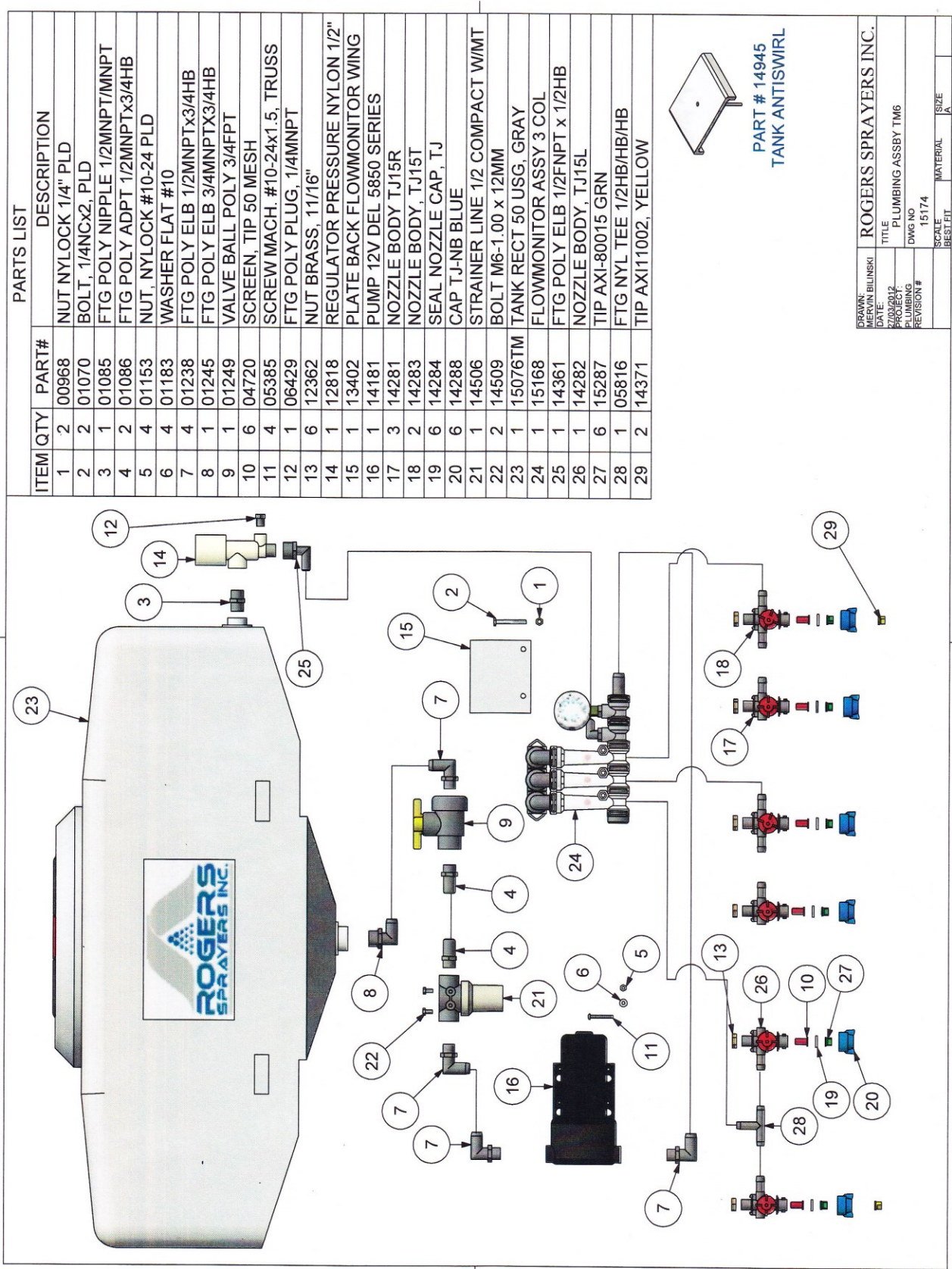
SCALE  
BEST FIT

MATERIAL

SIZE  
A



Plumbing Assembly TM6



General Assembly TM4

Exploded view diagram of the General Assembly TM4, showing various components labeled with circled numbers 1 through 26. The diagram includes a main frame assembly, a leg assembly, a tank lock assembly, a nut, a pin top link, a pin lynch, a bolt, an airfoil standoff, an airfoil, a washer, a nut, a front shroud support, a rear shroud support, a bolt, an airfoil, a flexishield hanger, a flexishield, a shroud, a backing plate, and a bolt.

PARTS LIST			
ITEM	QTY	PART#	DESCRIPTION
1	1	15096	MAIN FRAME ASSEMBLY TM4/TM6
2	4	15272	LEG ASSEMBLY TM SERIES
3	4	15239	PIN STL SQ. WIRE LOCK 5/16x3-1/2
4	4	15114	TANK LOCK ASSBY TM4/TM6
5	4	00963	NUT, NYLOCK, 1/2NC, PLD
6	2	04619	PIN LOWER LINK
7	1	06486	PIN TOP LINK, 3/4X-3-3/4"
8	3	14090	PIN LYNCH STL .375 x 1.5"
9	2	14509	BOLT M6-1.00 x 12MM
10	4	14843	AIRFOIL STANDOFF BACK TUBE
11	4	14844	AIRFOIL STANDOFF FRONT TUBE
12	4	14845	BOLT, 1/4NCx4.5, PLD
13	4	05415	BOLT, 1/4NCx4, PLD
14	18	01157	WASHER FLAT, 1/4"
15	14	00968	NUT NYLOCK 1/4" PLD
16	1	15273	FRONT SHROUD SUPPORT TM4
17	1	15274	REAR SHROUD SUPPORT TM4
18	2	05412	BOLT, 1/4NCx3, PLD
19	2	00966	BOLT, 1/4NCx2.5, PLD
20	1	15380	AIRFOIL 18.5" L, TM4
21	1	15381	AIRFOIL 18.5" R, TM4
22	1	01385	FLEXISHIELD HANGER, 165"
23	1	14241	FLEXISHIELD 9.625" x 205"
24	1	15495	SHROUD LP 60 GREY NO WW W/DECAL
25	1	12057	BACKING PLATE 2 COL
26	2	01070	BOLT, 1/4NCx2, PLD

DRAWN: MERVIN BILINSKI

DATE CREATED: 01/15/2010

PROJECT: GENERAL ASSEMBLY TM4

TM SERIES: 15498

DATE CHECKED:

TITLE: GENERAL ASSEMBLY TM4

DWG NO: 15498

SCALE: BEST FIT

MATERIAL:

SIZE: A

ROGERS SPRAYERS INC.

DATE CREATED: 01/15/2010

PROJECT: GENERAL ASSEMBLY TM4

TM SERIES: 15498

DATE CHECKED:

TITLE: GENERAL ASSEMBLY TM4

DWG NO: 15498

SCALE: BEST FIT

MATERIAL:

SIZE: A



Plumbing Assembly TM4

PARTS LIST		
ITEM	QTY	PART# DESCRIPTION
1	1	15076TM TANK RECT 50 USG, GRAY
2	4	05385 SCREW MACH. #10-24x1.5, TRUSS
3	4	01183 WASHER FLAT #10
4	4	01153 NUT, NYLOCK #10-24 PLD
5	1	14506 STRAINER LINE 1/2 COMPACT WMT
6	1	01249 VALVE BALL POLY 3/4FPT
7	1	01245 FTG POLY ELB 3/4MNPTX3/4HB
8	4	01238 FTG POLY ELB 1/2MNPTx3/4HB
9	2	01086 FTG POLY ADPT 1/2MNPTx3/4HB
10	1	14181 PUMP 12V DEL 5850 SERIES
11	2	14281 NOZZLE BODY TJ15R
12	2	14283 NOZZLE BODY, TJ15T
13	1	15496 FLOW KIT TM4 - 2 COL.
14	1	12818 REGULATOR PRESSURE NYLON 1/2"
15	1	14361 FTG POLY ELB 1/2FNPT x 1/2HB
16	1	06429 FTG POLY PLUG, 1/4MNPT
17	1	01085 FTG POLY NIPPLE 1/2MNPT/MNPT
18	4	04720 SCREEN, TIP 50 MESH
19	4	14284 SEAL NOZZLE CAP, TJ
20	4	15287 TIP AXI-80015 GRN
21	4	14288 CAP TJ-NB BLUE

PART # 14945  
TANK ANTISWIRL  
(INSIDE TANK)

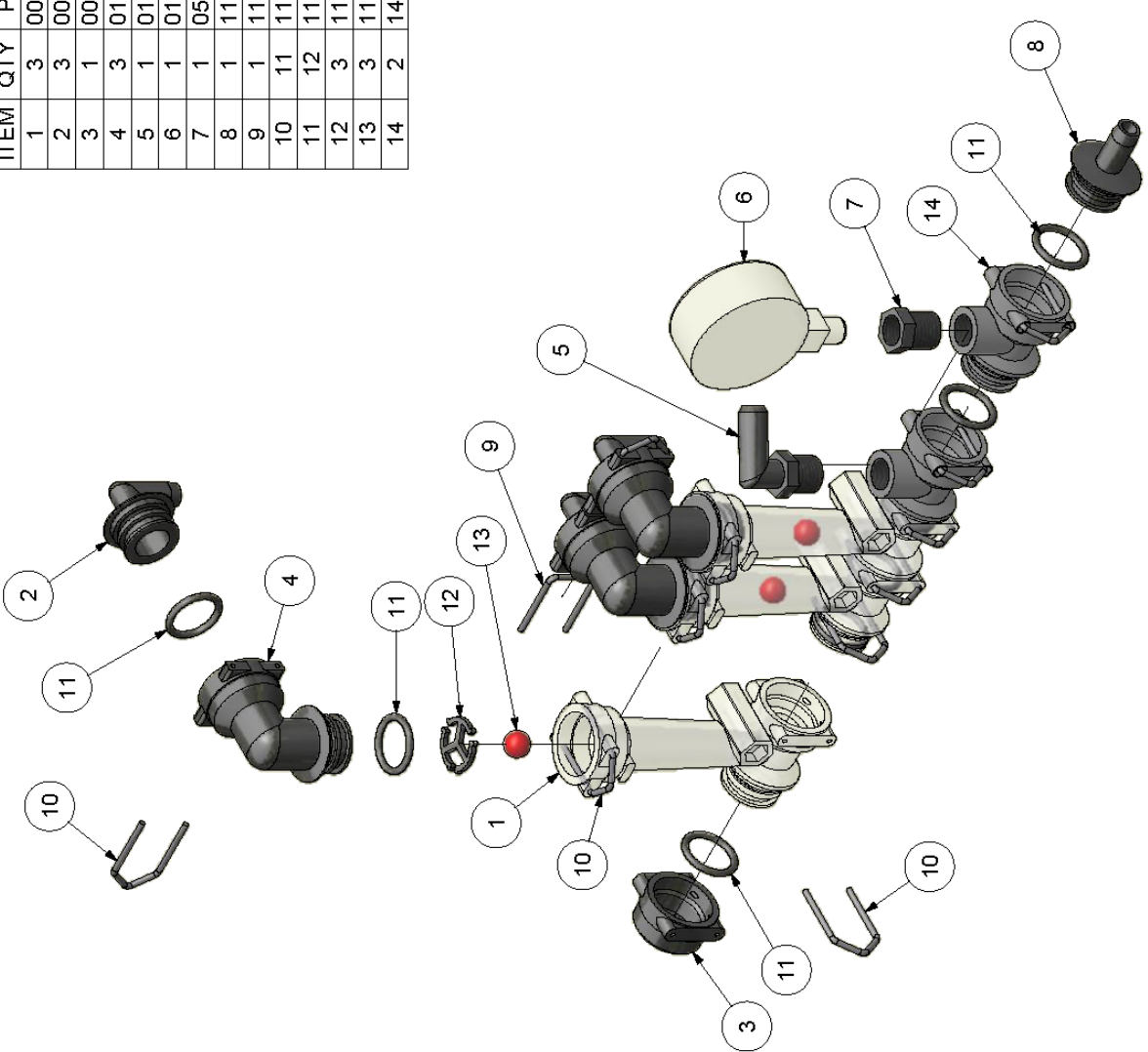
PART # 14371  
TIP AXI 11002  
USED ON ENDS  
FOR FULL  
WIDTH SPRAY

DRAWN:	MERVIN BILINSKI	ROGERS SPRAYERS INC.	
DATE CREATED:	10/15/15	TITLE:	PLUMBING ASSBY TM4
PROJECT:	TM SERIES	DWG NO:	15499
DATE CHECKED:		SCALE:	BEST FIT
		MATERIAL:	
		SIZE:	A

Flow Monitor/Rotometer Assembly #15168

Parts List

ITEM	QTY	PART#	DESCRIPTION
1	3	00889	FLOWMONITOR ORC BODY
2	3	00906	FTG POLY ELB MORC x 1/2HB
3	1	00909	FTG POLY ORC CAP
4	3	01115	FTG POLY ELB ST MORC x FORC
5	1	01247	FTG POLY ELB 3/8MNPTx1/2HB
6	1	01281	PRESSURE GAUGE
7	1	06679	FTG POLY RDCR 3/8MNPTx1/4FNPT
8	1	11975	FTG POLY ADPT MORC x 1/2HB
9	1	11976	ORC CLIP FLAT
10	11	11976a	ORC CLIP A STYLE
11	12	11984	O-RING ORC
12	3	11989	ORC BALL RETAINER
13	3	11990	BALL FICELCON 0.09-0.3 USGPM
14	2	14244	FTG POLY TEE ORC MF/FNPT 3/8"



ROGERS  
FREDERIKSEN

DATE:  
8/06/2005

PROJECT:  
FLOWMON

DWG NO:  
15168

REVISION #

SCALE:  
1/4"

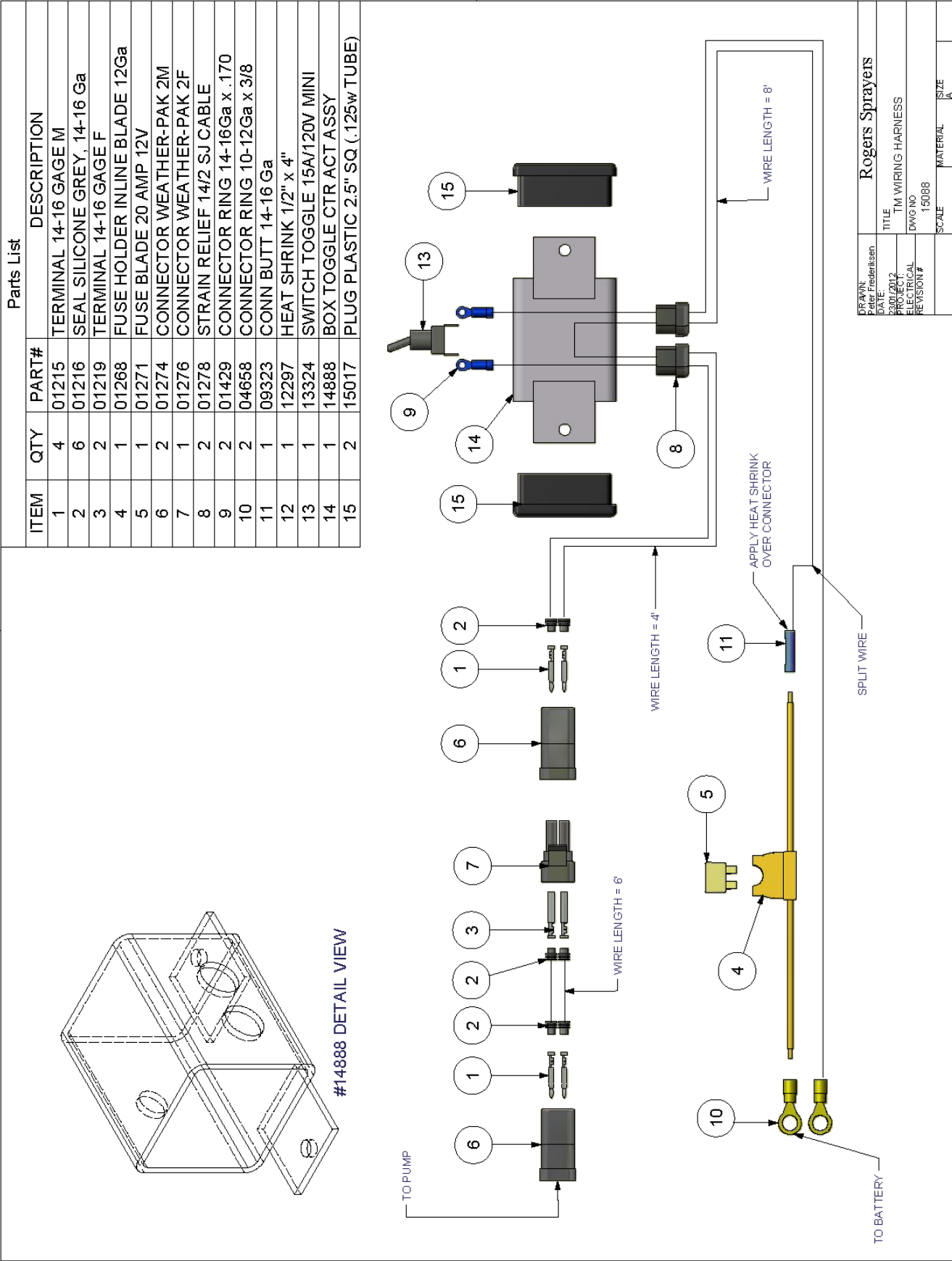
SHEET  
1A

SIZE  
A

MATERIAL

Rogers Sprayers

TITLE  
FLOWMONITOR ASSY 3 COL



**Rogers Sprayers Inc. (RSI)**  
141 - 105<sup>th</sup> Street East  
Saskatoon, SK S7N 1Z2 Canada



Tel.: (306) 975-0500 or (888) 975-8294  
Fax: (306) 975-0499  
Email: [info@rogerssprayers.com](mailto:info@rogerssprayers.com)

## ROGERS SPRAYERS INC OWNER WARRANTY AGREEMENT

**Windfoil** Drift Containment Spray Systems (DCSS) are warranted to be free of factory defects under normal and intended use for a period of one (1) year from date of purchase to the original purchaser. Equipment must be setup in accordance with factory instructions and operated, maintained and used in accordance with the operator's manual. Equipment used for rental has a warranty period of forty five (45) days. Any customization or modifications to the original equipment voids warranty immediately.

RSI reserves the right not to warranty any items that are not directly manufactured by RSI. Such components need to be returned to the factory for inspection and tested by either RSI or the original manufacturer for defects. Examples of these parts include actuators, engines, pumps and electrical systems.

### **All warranty Claims must be pre-authorized by the factory!**

To obtain warranty, all defective parts must be returned to the factory; in some cases, location of part might require only photo of defective part. RSI must be contacted to determine which route is required. RSI through its designated dealer or factory appointed representative will repair or replace, at its option, any or all parts that are proven to be defective free of charge.

RSI DOES NOT pay or reimburse for any travel time or investigation time to determine the defective part. Warranty labor will be based on the time required for RSI to replace only the part. Warranty labor rates and replacement times will be assessed yearly and will be included in a labor replacement sheet.

This warranty does not apply to damage caused by misuse, accident, acts of god, and/or operation without proper servicing. RSI will not be responsible for consequential damages; its liability is limited to replacement of parts.

Standard wear components (see list) such as belts, nozzles, screens, bearings, wheels, flow indicator bodies or flow indicator parts are only warranted for 30 days after original purchase.

RSI makes no other expressed, implied or statutory warranty; nor is anyone authorized to make any on our behalf.

### **Complete your Warranty Registration online at [www.rogerssprayers.com](http://www.rogerssprayers.com)**

The warranty registration is found on the Contact page of our website. The warranty registration **MUST** be filled out completely and submitted to RSI to activate the warranty. If you would prefer, a printable copy is also available online.

**It is our intention to manufacture durable, user-friendly products. Any suggestions you have as to how we may improve our equipment are greatly appreciated.**





## **ROGERS SPRAYERS INC.**

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