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# **FY325 / FY425**

## **Heavy Duty Farm Yard Sprayer**

(3 and 4 Nozzle, 25 USG Tank)



## **Assembly, Parts and Operator's Manual**

Version FY-1608

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**Visit our website, [www.rogerssprayers.com](http://www.rogerssprayers.com), for additional models.**

## **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 the unit was designed for, (ie turf application). Do not use products for which the 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.

The FY Sprayer is equipped with 80° spray tips, spaced at 16". Tips are mounted with self-aligning ¼ turn caps for easy removal or change.

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 meter is not accurate enough in absolute terms to be used as a flow meter. In relative terms they are very accurate.

<p><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 FY</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.</p>
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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 to 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.

**Caution:** 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.

## 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. 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 X distance.

**Table 1:** 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 2:** 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**

### **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.

## **Operation**

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With the unit fully assembled, attach the battery clips to the battery on your power unit. (be sure that the toggle switch 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 the 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 the ball in the flow indicator as you spray, If the ball is not floating it indicates tips that are plugged or partially plugged. Check and clean the appropriate tip(s). If the ball is right at the top, the flow rate is too high. Replace the ball with the required ball 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.

## Farm Yard Tip Ranges for Pumps

BOOM	PUMP		Open Flow (gpm)	TIPS (80 degree only)						
	Part #	Description		8001	80015	8002	8003	8004	8005	8006
FY325	14498	STANDARD DEL	2.0	YES	YES	YES	YES	NO	NO	NO
FY325HF	14181	HIGH FLOW DEL	5.0	YES	YES	YES	YES	YES	YES	YES
SPRAY TIME TO EMPTY(MINUTES)				83	56	42	28	21	17	14

FY BOOM	PUMP		FLOW (gpm)	TIPS (80 degree only)						
	Part #	Description		8001	80015	8002	8003	8004	8005	8006
FY425	14498	STANDARD DEL	2.0	YES	YES	YES	NO	NO	NO	NO
FY425HF	14181	HIGH FLOW DEL	5.0	YES	YES	YES	YES	YES	YES	NO
SPRAY TIME TO EMPTY(MINUTES)				63	42	31	21	16	13	N/A

## Metric Application Rates at 16" Nozzle Spacing (0.5 meters)

### 80 Degree Tips

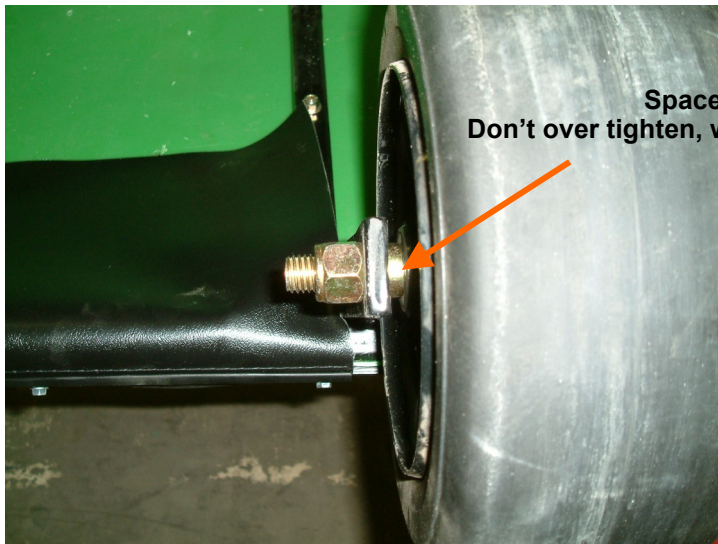
Rogers Part #	Tip Number	Tip Mfg	Liquid Press psi	Liquid Press bars	Cap /noz. gpm	Cap /noz. lpm	U. S. GALLONS PER ACRE					Liters/Hectare				
							2.5	3	4	5	7	4	4.8	6.4	8	11.2
							mph	mph	mph	mph	mph	kph	kph	kph	kph	kph
01369	8001VS 100 mesh	Teejet	30	2.07	0.087	0.328	12.9	10.7	8.0	6.4	4.6	120	100	75	60	43
			40	2.76	0.100	0.379	14.9	12.4	9.3	7.4	5.3	139	116	87	69	50
			50	3.45	0.112	0.423	16.6	13.8	10.4	8.3	5.9	155	129	97	78	55
			60	4.14	0.122	0.464	18.2	15.2	11.4	9.1	6.5	170	142	106	85	61
00827 15287	80015VS or AXI-80015 100 mesh	Teejet Albuz	30	2.07	0.130	0.492	19.3	16.1	12.1	9.6	6.9	180	150	113	90	64
			40	2.76	0.150	0.568	22.3	18.6	13.9	11.1	8.0	208	174	130	104	74
			50	3.45	0.168	0.635	24.9	20.8	15.6	12.5	8.9	233	194	146	116	83
			60	4.14	0.184	0.695	27.3	22.7	17.1	13.6	9.7	255	213	159	128	91
05876 14384	8002VS or AXI-8002 50 mesh	Teejet Albuz	30	2.07	0.173	0.656	25.7	21.4	16.1	12.9	9.2	240	200	150	120	86
			40	2.76	0.200	0.757	29.7	24.8	18.6	14.9	10.6	278	231	174	139	99
			50	3.45	0.224	0.846	33.2	27.7	20.8	16.6	11.9	310	259	194	155	111
			60	4.14	0.245	0.927	36.4	30.3	22.7	18.2	13.0	340	283	213	170	121
05877 14385	8003VS or AXI-8003 50 mesh	Teejet Albuz	30	2.07	0.260	0.983	38.6	32.2	24.1	19.3	13.8	361	301	225	180	129
			40	2.76	0.300	1.136	44.6	37.1	27.8	22.3	15.9	417	347	260	208	149
			50	3.45	0.335	1.270	49.8	41.5	31.1	24.9	17.8	466	388	291	233	166
			60	4.14	0.367	1.391	54.6	45.5	34.1	27.3	19.5	510	425	319	255	182
05878 14061	8004VS or AXI-8004 50 mesh	Teejet Albuz	30	2.07	0.346	1.311	51.4	42.9	32.2	25.7	18.4	481	401	301	240	172
			40	2.76	0.400	1.514	59.4	49.5	37.1	29.7	21.2	555	463	347	278	198
			50	3.45	0.447	1.693	66.4	55.3	41.5	33.2	23.7	621	517	388	310	222
			60	4.14	0.490	1.854	72.7	60.6	45.5	36.4	26.0	680	567	425	340	243
05879 14386	8005VS or AXI-8005 50 mesh	Teejet Albuz	30	2.07	0.433	1.639	64.3	53.6	40.2	32.2	23.0	601	501	376	301	215
			40	2.76	0.500	1.893	74.3	61.9	46.4	37.1	26.5	694	579	434	347	248
			50	3.45	0.559	2.116	83.0	69.2	51.9	41.5	29.6	776	647	485	388	277
			60	4.14	0.612	2.318	90.9	75.8	56.8	45.5	32.5	850	709	531	425	304
05880 14387	8006VS or AXI-8006 50 mesh	Teejet Albuz	30	2.07	0.520	1.967	77.2	64.3	48.2	38.6	27.6	721	601	451	361	258
			40	2.76	0.600	2.271	89.1	74.3	55.7	44.6	31.8	833	694	521	417	298
			50	3.45	0.671	2.539	99.6	83.0	62.3	49.8	35.6	931	776	582	466	333
			60	4.14	0.735	2.781	109.1	90.9	68.2	54.6	39.0	1020	850	638	510	364

# Application Rates, 16" Spacing

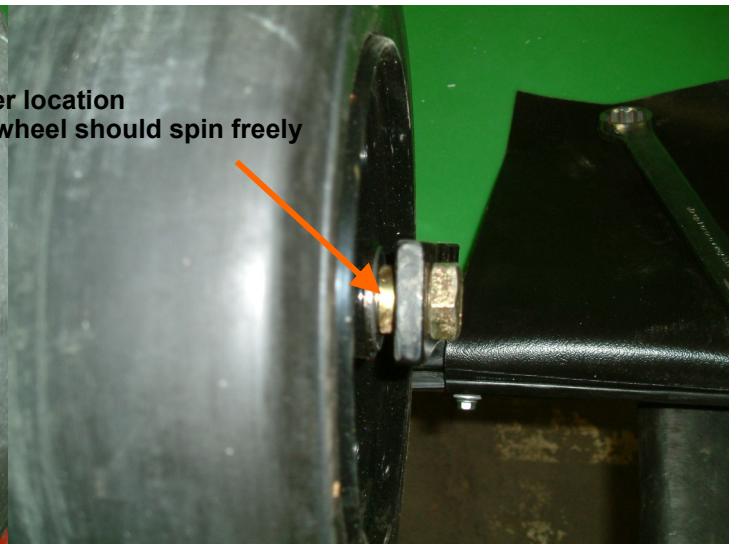
## 80 Deg. Tips

Rogers Part #	Tip Number	Liquid Press psi	Capacity 1 nozzle gpm	U. S. GALLONS PER ACRE						U. S. GALLONS PER 1000 SQ. FT.							LITERS PER 1000 SQ. FT.				
				2.5	3	4	5	7		2.5	3	4	5	7		Press	2.5	3	4	5	7
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	0.75	0.62	0.47	0.37	0.27
		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	0.86	0.72	0.54	0.43	0.31
		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	0.96	0.80	0.60	0.48	0.34
		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	1.06	0.88	0.66	0.53	0.38
		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	1.11	0.93	0.70	0.56	0.40
01369	8001VS (100 mesh)	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	1.29	1.07	0.80	0.64	0.46
		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	1.44	1.20	0.90	0.72	0.51
		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	1.58	1.31	0.99	0.79	0.56
		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	1.67	1.39	1.04	0.84	0.60
00827	80015VS or AXI-80015 (100 mesh)	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	1.93	1.61	1.21	0.97	0.69
		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	2.16	1.80	1.35	1.08	0.77
		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	2.36	1.97	1.48	1.18	0.84
		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	2.23	1.86	1.39	1.11	0.80
14384	8002VS or AXI-8002 (50 mesh)	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	2.57	2.14	1.61	1.29	0.92
		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	2.88	2.40	1.80	1.44	1.03
		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	3.15	2.63	1.97	1.58	1.13
		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	3.34	2.79	2.09	1.67	1.19
14385	8003VS or AXI-8003 (50 mesh)	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	3.86	3.22	2.41	1.93	1.38
		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	4.32	3.60	2.70	2.16	1.54
		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	4.73	3.94	2.96	2.36	1.69
		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	4.46	3.71	2.79	2.23	1.59
14061	8004VS or AXI-8004 (50 mesh)	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	5.15	4.29	3.22	2.57	1.84
		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	5.76	4.80	3.60	2.88	2.06
		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	6.30	5.25	3.94	3.15	2.25
		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	5.57	4.64	3.48	2.79	1.99
14386	8005VS or AXI-8005 (50 mesh)	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	6.43	5.36	4.02	3.22	2.30
		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	7.19	5.99	4.50	3.60	2.57
		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	7.88	6.57	4.93	3.94	2.81
		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	6.69	5.57	4.18	3.34	2.39
05880	8006VS or AXI-8006 (50 mesh)	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	7.72	6.43	4.83	3.86	2.76
		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	8.63	7.19	5.40	4.32	3.08
		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	9.46	7.88	5.91	4.73	3.38
		30	0.620	95.4	79.7	61.4	49.4	34.4		2.25	1.87	1.39	1.09	0.79		2.07	8.46	7.00	5.25	4.11	2.99



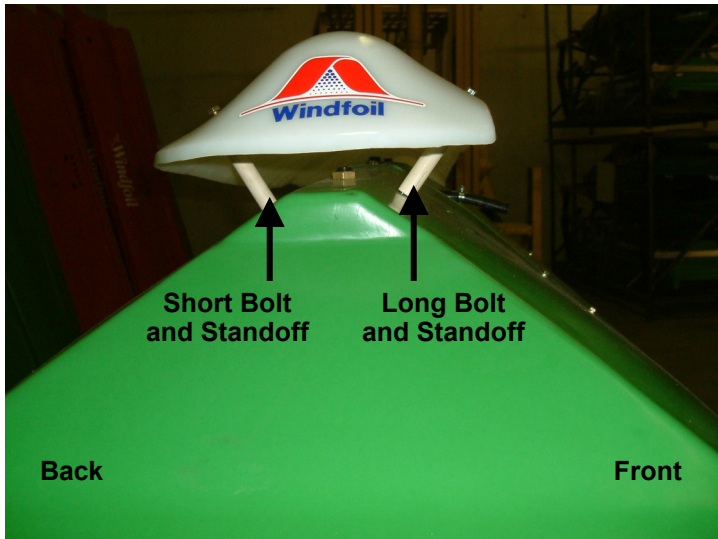


**Figure 1: Wheel assembly**



**Figure 2: Wheel assembly**

First take components out of box. With boom upside down on saw horses or table install wheel assemblies. Return to upright position and mount airfoil as shown in figure 3. Take pressure gauge out of box and install on flow monitor. Position flow monitor vertically as shown in figure 4 and connect feed hose. \*\*\* If installing a wand kit see figures 11-16 on pages 10 and 11\*\*\*



**Figure 3: Airfoil assembly**



**Figure 4: Flow monitor and pressure gauge**



**Figure 5: Mounting hitch on boom**



**Figure 6: Mount tank and secure with strap**





**Figure 7: Attaching return line from Pressure Regulator**



**Figure 8: Attaching feed line from tank to valve**



**Figure 9: Attaching nozzle feed hose to flow monitor**



**Figure 10: Main plumbing Assembly**



**\*\*\*The following instructions and pictures are for the installation of the wand kit\*\*\***



STEP 1: REMOVE TANK OR JUST LOSEN IT SO THAT IT CAN BE SLIGHTLY LIFTED.

STEP 2: REMOVE PLUG IN BOTTOM OF PRESSURE REGULATOR TEE.

STEP 3: INSTALL MALE END OF RED HOSE FITTING INTO BASE OF TEE AS SHOW IN FIGURE 1.

**Figure 1**



**Figure 2**



**Figure 3**



**Figure 4**

STEP 4: ATTACH RED HOSE TO FRAME USING CLAMPS AND TEK SCREWS PROVIDED. HOLES SHOULD BE PREDRILLED. IT IS SUGGESTED TO HANG THE CLAMP DOWNWARD. SEE FIGURES 2, 3 & 4.

HOLE #1 IS BEHIND THE FLOWINDICATOR

HOLE #2 IS IN THE SIDE FRAME, MAKE SURE TO LEAVE ENOUGH SLACK SO THE TANK WILL FIT BACK ON THE FRAME.

HOSE #3&4 ARE UP WHERE THE HITCH MOUNTS TO THE SHROUD FRAME.



**Figure 5**



**Figure 6**

STEP 5: REMOVE HOSE BETWEEN THE PRESSURE REGULATOR AND THE BASE OF THE FLOWMONITOR, REPLACE WITH BRASS VALVE ASSEMBLY (SEE FIGURE 5).

STEP 6: INSTALL BLUE COIL HOSE IN ONE END OF RED HOSE AND OTHER END IN SPRAY WAND.

STEP 7: ATTACH ONE RUBBER CLAMP TO CENTER BOLT OF AIRFOIL ON FY425, (NEED TO DRILL NEW HOLE AND USE NEW BOLT ON FY325 MODEL) AND SECOND CLAMP ON TOP BOLT OF HITCH, (SEE FIGURE 6)

FY425 Shroud Assembly Part # 14882SH

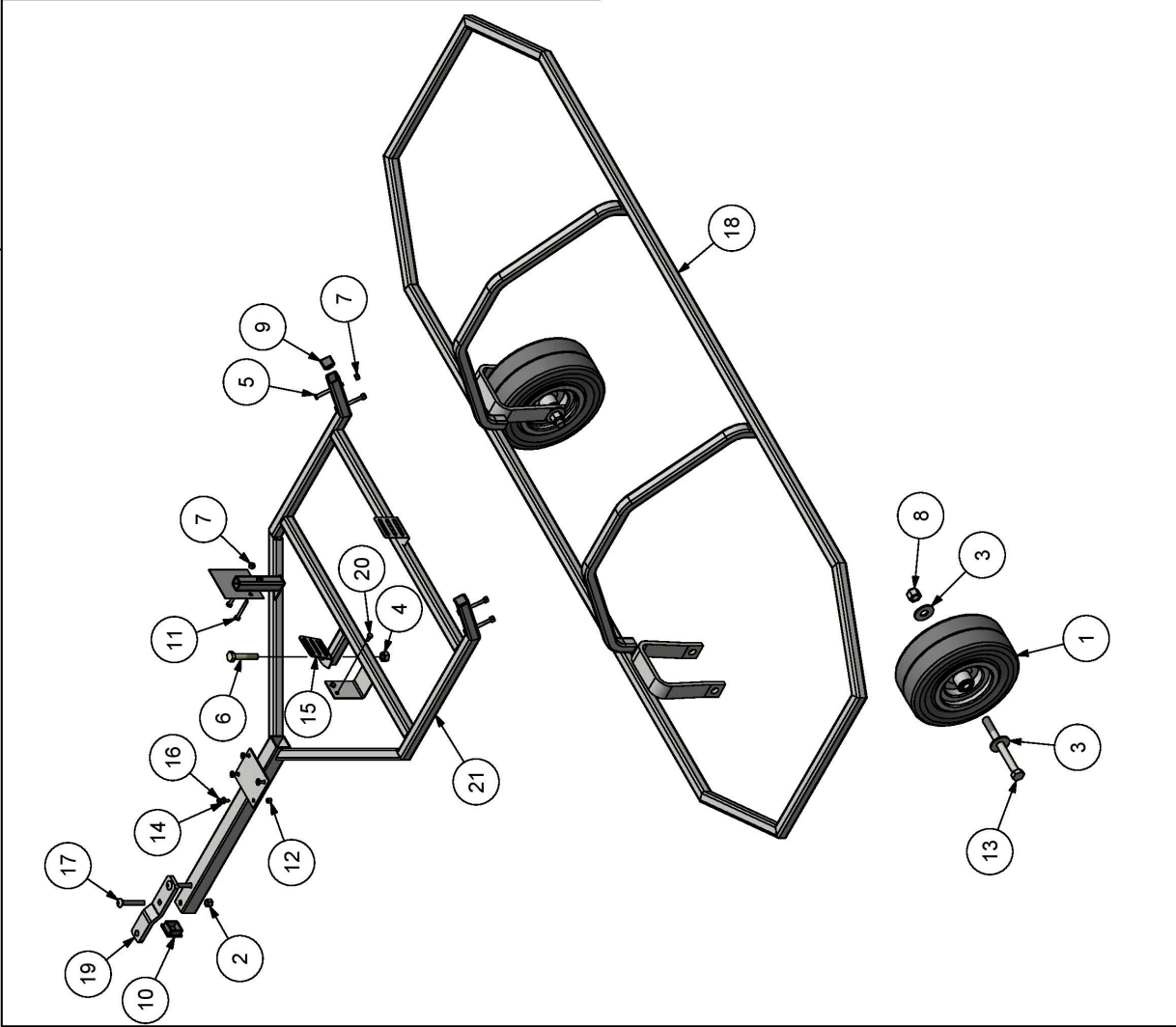
PARTS LIST		
ITEM	QTY	PART#
1	6	00968
2	12	01157
3	3	05415
4	1	13483
5	1	14233
6	1	14234
7	3	14843
8	3	14844
9	3	14845
10	1	15233FY
11	1	15427

DESCRIPTION	
NUT NYLOCK 1/4" PLD	
WASHER FLAT, 1/4"	
BOLT, 1/4NCx4, PLD	
AIRFOIL 68" PREPPED	
FLEXISHIELD HANGER, FY1500/FY425	
FLEXI-SHIELD 10.5Wx190", FY425	
AIRFOIL STANDOFF BACK TUBE	
AIRFOIL STANDOFF FRONT TUBE	
BOLT, 1/4NCx4.5, PLD	
SHROUD FY 4NOZ GREY, PREPPED	
FLEXI-SHIELD 10.5Wx30", FY	

DRAWN: MEHDI SABBAGH		ROGERS SPRAYERS INC.	
DATE CREATED: 01/08/2016		TITLE: SHROUD ASSY, FY 425	
DESIGNED BY: FARM VARDER		DWG NO: 14882SH	
DATE CHECKED:		SCALE: 1:1	
		MATERIAL: 6061	
		SIZE: 1/2	

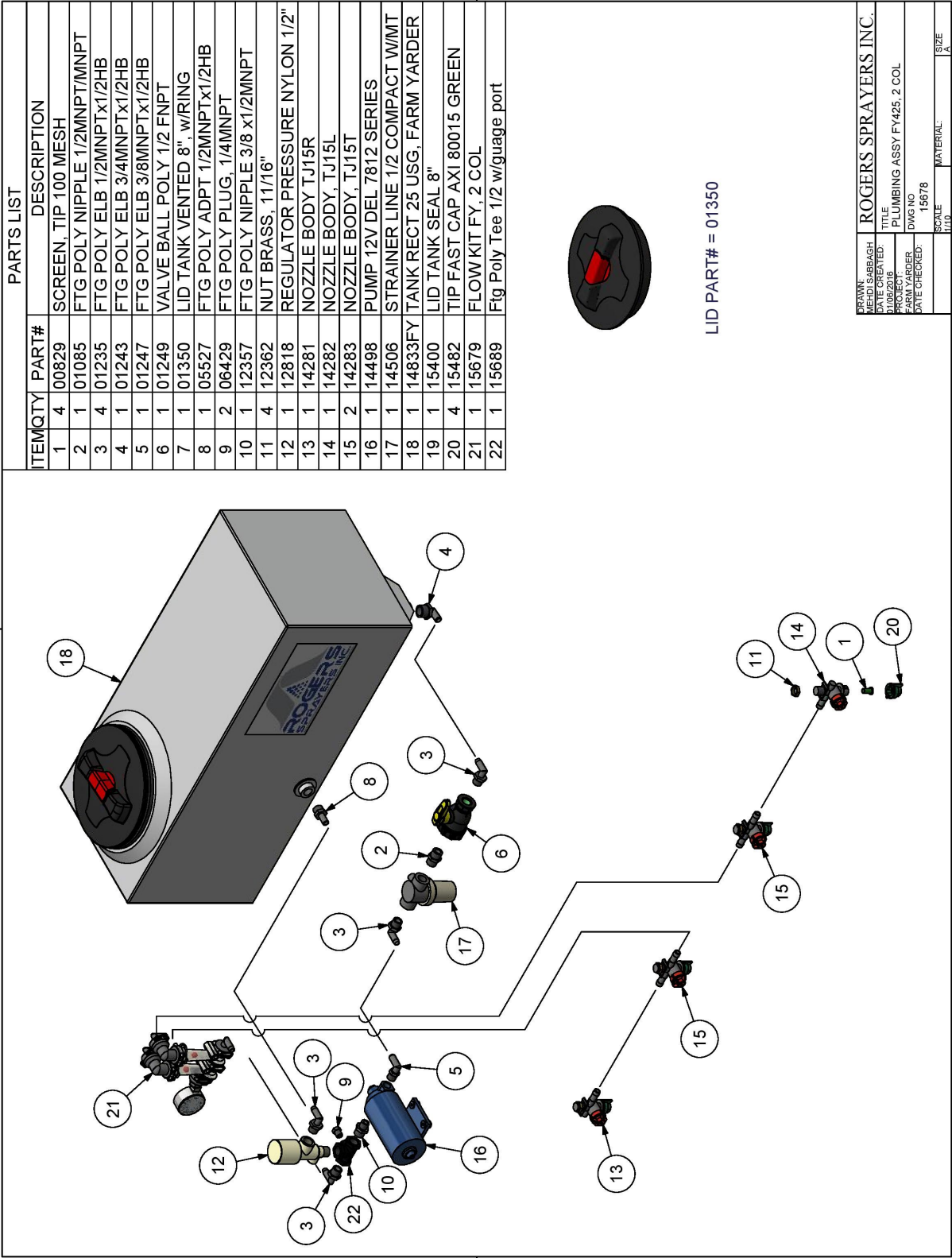
FY425 Frame Assembly Part # 14882

PARTS LIST		
ITEM	QTY	PART# DESCRIPTION
1	2	00920 WHEEL STL LD RB SEALED BRG
2	2	00956 NUT, NYLOCK, 3/8NC, PLD
3	4	00960 WASHER, 5/8", PLD
4	1	00963 NUT, NYLOCK, 1/2NC, PLD
5	4	00966 BOLT, 1/4NCx2.5, PLD
6	1	00967 BOLT, 1/2"x2.5", PLD
7	6	00968 NUT NYLOCK 1/4" PLD
8	2	01051 NUT, NYLOCK, 5/8NC, PLD
9	2	01056 PLUG, 1" SQ. PLASTIC
10	1	01057 PLUG, TUBE, SQ. PLASTIC 1.5"
11	2	01070 BOLT, 1/4NCx2, PLD
12	4	01153 NUT, NYLOCK #10-24 PLD
13	2	01166 BOLT, 5/8"x6.5", PLD
14	4	01183 WASHER FLAT #10
15	1	05103 STRAP HOLDER STL PLD
16	4	07157 SCREW MACH. #10-24x1, TRUSS
17	2	13393 BOLT CARRIAGE 3/8NCx2-1/2
18	1	14220L FRAME, FY1500
19	1	14229 HITCH TAB, FY
20	2	14509 BOLT M6-1.00 x 12MM
21	1	14878 HITCH FY 25 USGal



DRAWN: MEHDI SABAGH	ROGERS SPRAYERS INC.
DATE: 01/08/2018	TITLE: FRAME ASSY, FY 425
PROJECT: FARM YARDER	DWG NO: 14882
DATE CHECKED:	SCALE: 1/13
	MATERIAL:
	SIZE: A

FY425 Plumbing Assembly Part # 15678





Flow Kit FY425 Part # 15679

PARTS LIST	
ITEM	DESCRIPTION
1	2 00889 FLOWMONITOR ORC BODY
2	3 00906 FTG POLY ELB MORC x 1/2HB
3	2 01115 FTG POLY ELB ST MORC x FORC
4	1 01281 GAUGE PRESSURE 100psi WET
5	2 11965 BALL FI GLASS 0.31-0.72 USGPM
6	7 11976a ORC CLIP A STYLE
7	8 11984 O-RING ORC
8	2 11989 ORC BALL RETAINER
9	1 14423 FTG WIL POLY CAP W-1/4FNPT

SCALE 1 / 4

PART #01118 - POLYPROP BALL BLACK  
FLOW RATES 0.03-0.09 USGPM

PART #01119 - POLYPROP BALL GREEN  
FLOW RATES 0.05-0.18 USGPM

PART #11990 - CELCON BALL RED  
FLOW RATES 0.09-0.30 USGPM

PART #11965 - GLASS BALL RED/BLUE  
FLOW RATES 0.31-0.72 USGPM

PART #11991 - SS BALL 1/2"  
FLOW RATES 0.31-1.33 USGPM

DRAWN: MEHDI SABBAGH		ROGERS SPRAYERS INC.	
DATE CREATED: 10/20/2015		TITLE: FLOW KIT FY, 2 COL	
DESIGNED: PLUMBING		DWG NO: 15679	
DATE CHECKED:		SCALE: 1/2	
		MATERIAL:	
		SIZE: A	

FY325 Shroud Assembly Part # 14908SH

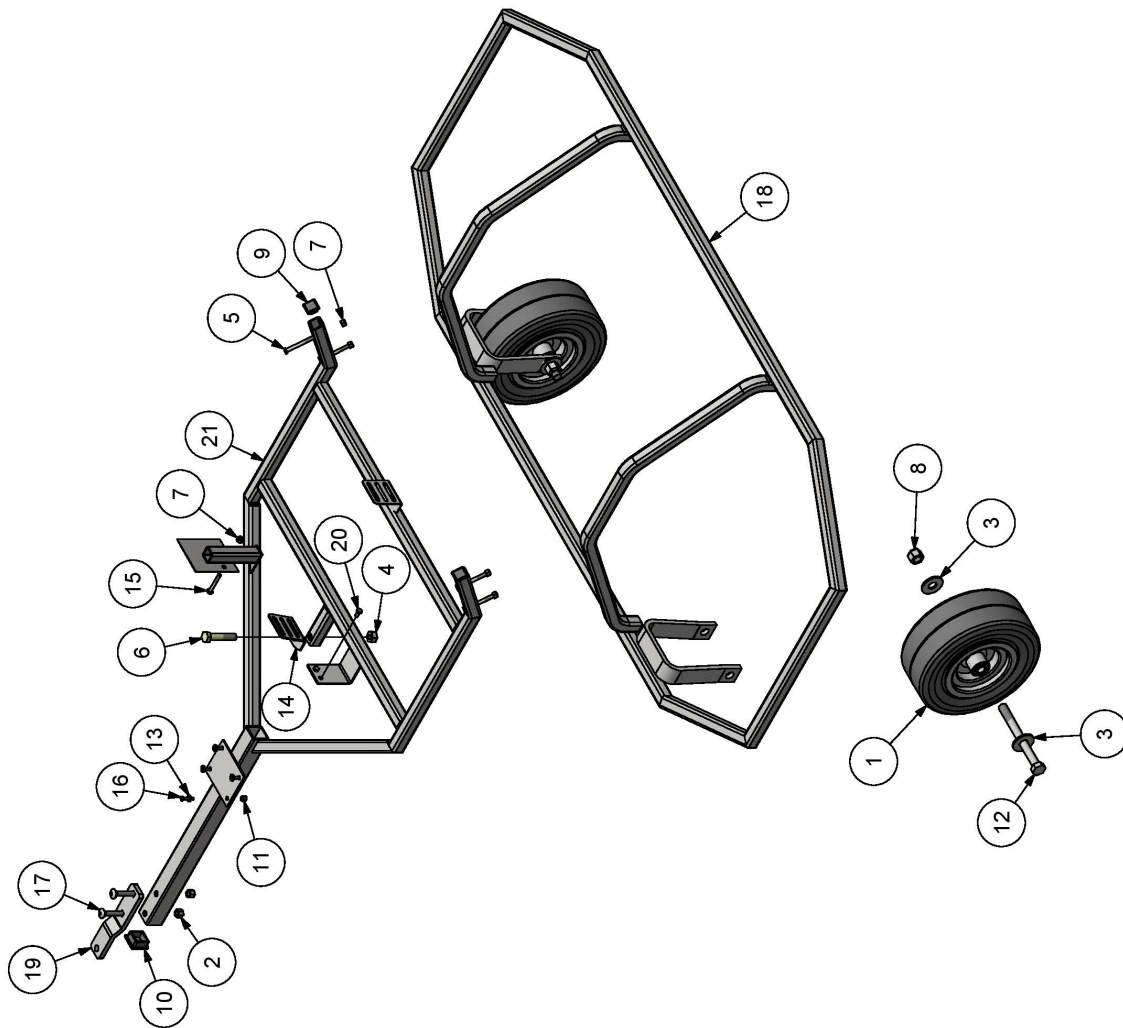
ITEM QTY		PART #	DESCRIPTION
1	4	00968	NUT NYLOCK 1/4" PLD
2	8	01157	WASHER FLAT, 1/4"
3	1	01500	AIRFOIL 48" PREPPED
4	2	05415	BOLT, 1/4NCx4, PLD
5	1	14230	FLEXI-SHIELD 10.5Wx150", FY325
6	1	14231	FLEXISHIELD HANGER, FY325/FY1000
7	2	14843	AIRFOIL STANDOFF BACK TUBE
8	2	14844	AIRFOIL STANDOFF FRONT TUBE
9	2	14845	BOLT, 1/4NCx4.5, PLD
10	1	15234FY	SHROUD FY 3 NOZ GREY
11	1	15427	FLEXI-SHIELD 10.5Wx30", FY

DRAWN: MEHDI SABBAH		ROGERS SPRAYERS INC.	
DATE CREATED: 02/06/2016		TITLE: SHROUD ASSY, FY 325	
PART NO: 14908SH		DWG NO: 14908SH	
PARTY: YARDER		SCALE: 1/1	
DATE CHECKED:		MATERIAL:	
		SIZE:	



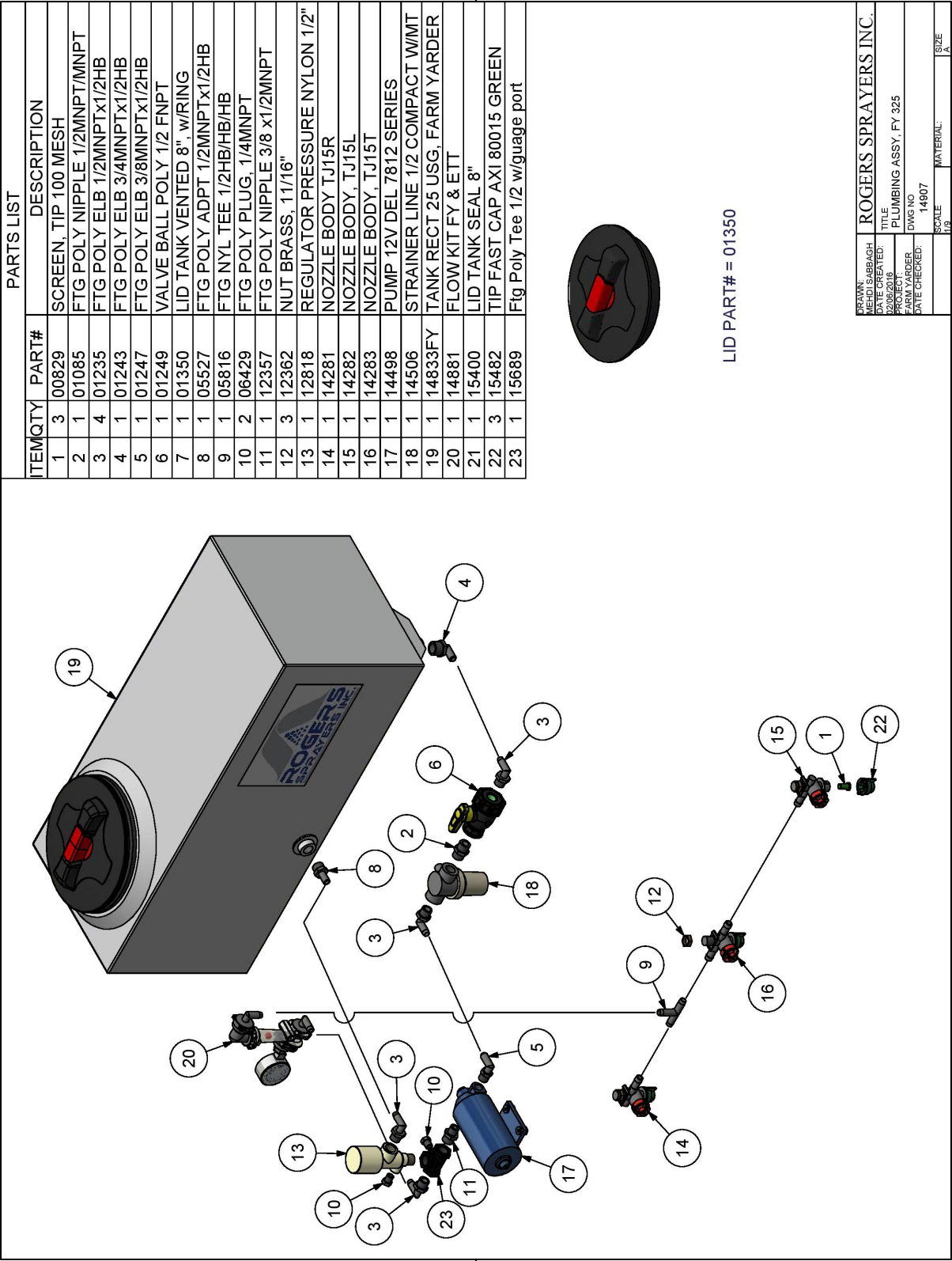
## FY325 Frame Assembly Part # 14908

PARTS LIST		
ITEM	QTY	PART# DESCRIPTION
1	2	00920 WHEEL STL LD RB SEALED BRG
2	2	00956 NUT, NYLOCK, 3/8NC, Pld
3	4	00960 WASHER, 5/8", PLD
4	1	00963 NUT, NYLOCK, 1/2NC, Pld
5	4	00966 BOLT, 1/4NCx2.5, PLD
6	1	00967 BOLT, 1/2"x2.5", PLD
7	5	00968 NUT NYLOCK 1/4" PLD
8	2	01051 NUT, NYLOCK, 5/8NC, Pld
9	2	01056 PLUG, 1" SQ. PLASTIC
10	1	01057 PLUG, TUBE, SQ. PLASTIC 1.5"
11	4	01153 NUT, NYLOCK #10-24 PLD
12	2	01166 BOLT, 5/8"x6.5", PLD
13	4	01183 WASHER FLAT #10
14	1	05103 STRAP HOLDER STL PLD
15	1	05409 BOLT, 1/4NCx1.75, PLD
16	4	07157 SCREW MACH. #10-24x1, TRUSS
17	2	13393 BOLT CARRIAGE 3/8NCx2-1/2
18	1	14220S FRAME, FY1000
19	1	14229 HITCH TAB, FY
20	2	14509 BOLT M6-1.00 x 12MM
21	1	14878 HITCH FY 25 USGal



DRAWN: MEHDI SABAGH	ROGERS SPRAYERS INC.	
DATE CREATED: 11/06/2016	TITLE SHROUD ASSY, FY 325	
PROJECT: ARM YARDER	DWG NO 14908	
DATE CHECKED:	SCALE	MATERIAL: SIZE

FY325 Plumbing Assembly Part # 14907



Flow Kit FY325 Part # 14881

PARTS LIST		
ITEM	QTY	DESCRIPTION
1	1	00889 FLOWMONITOR ORC BODY
2	2	00906 FTG POLY ELB MORG x 1/2HB
3	1	01115 FTG POLY ELB ST MORG x FORC
4	1	01281 GAUGE PRESSURE 100psi WET
5	1	11965 BALL FI GLASS 0.31-0.72 USGPM
6	4	11976a ORC CLIP A STYLE
7	4	11984 O-RING ORC
8	1	11989 ORC BALL RETAINER
9	1	14423 FTG WIL POLY CAP W-1/4FNPT

SCALE 1 / 4

PART #01118 - POLYPROP BALL BLACK  
FLOW RATES 0.03-0.09 USGPM

PART #01119 - POLYPROP BALL GREEN  
FLOW RATES 0.05-0.18 USGPM

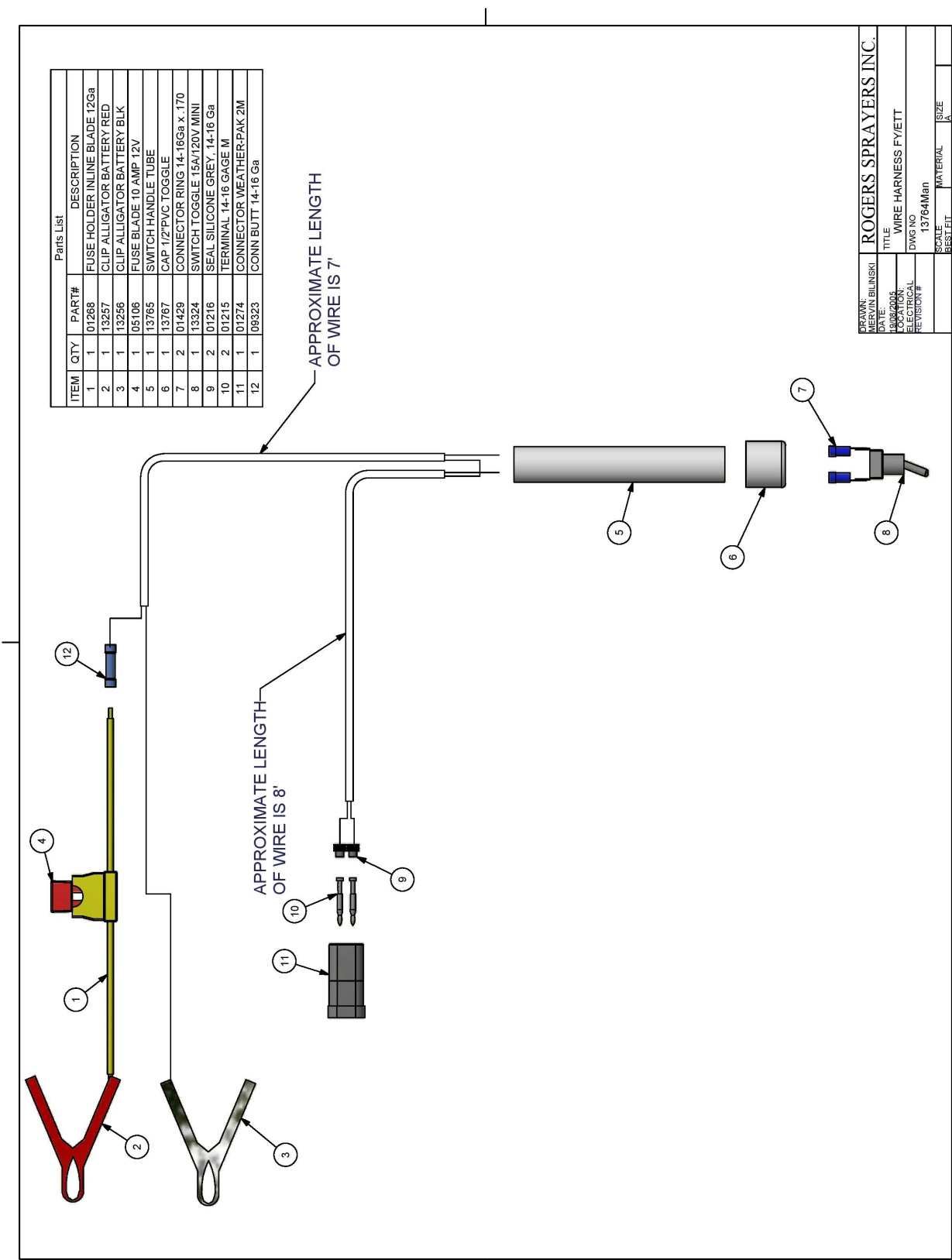
PART #11990 - CELCON BALL RED  
FLOW RATES 0.09-0.30 USGPM

PART #11965 - GLASS BALL RED/BLUE  
FLOW RATES 0.31-0.72 USGPM

PART #11991 - SS BALL 1/2"  
FLOW RATES 0.31-1.33 USGPM

ROGERS SPRAYERS INC.	
DATE: 11/08/2005	TITLE: FLOW KIT FY & ETT
LOCATION: NEWARK, NJ	DWG NO: 14881
REVISION #	
SCALE: BEST FIT	MATERIAL: SIZE: A

ETT Wiring Harness Part # 13764



**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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