

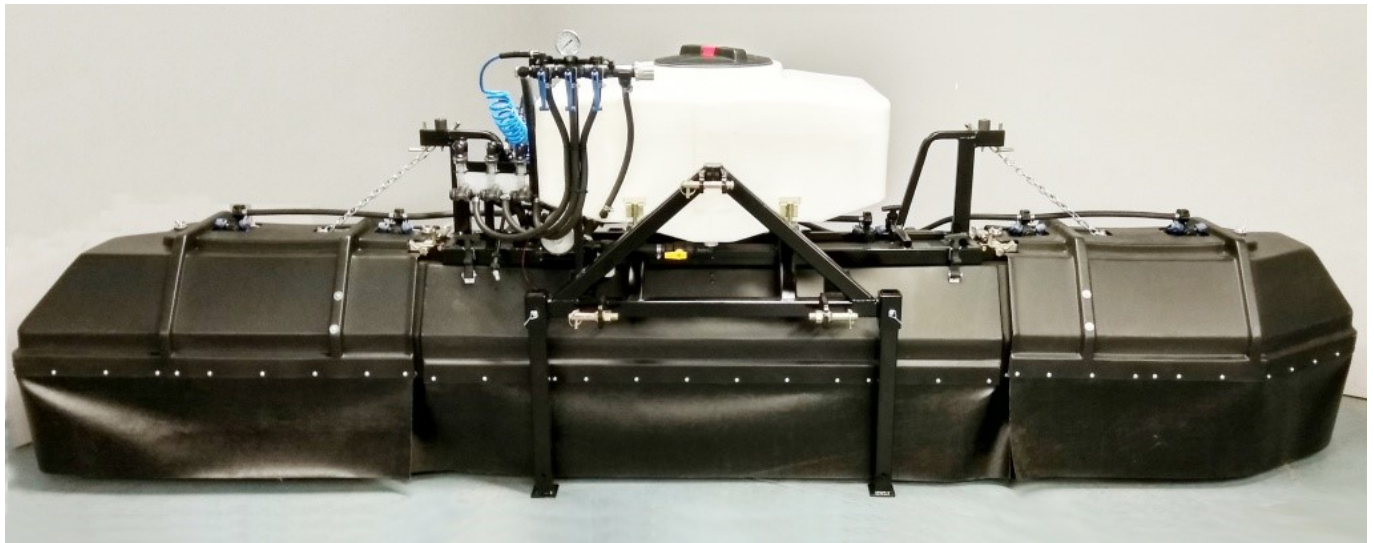


## **ROGERS SPRAYERS INC.**

141 - 105th Street East  
Saskatoon, SK S7N 1Z2  
Canada

Phone: (306) 975-0500  
Fax: (306) 975-0499  
Email: [info@rogerssprayers.com](mailto:info@rogerssprayers.com)  
Web: [www.rogerssprayers.com](http://www.rogerssprayers.com)

# TM12T Windfoil 12ft Tractor Mount Sprayer



## Assembly, Parts and Operator's Manual

Version TM-1804

# Table of Contents

<b>SAFETY .....</b>	<b>3</b>
Operational Safety .....	3
<b>GENERAL SPRAYING INFORMATION .....</b>	<b>3</b>
Application Tips .....	3
Nozzles .....	4
Diaphragm Check Valve Nozzle Bodies .....	4
Calibration .....	4
Application Rate Table 20" Spacing .....	5
<b>GENERAL MAINTENANCE .....</b>	<b>7</b>
Cleaning .....	7
Sunshine .....	8
Winterizing .....	8
<b>LAST CHECK .....</b>	<b>8</b>
<b>OPERATION .....</b>	<b>9</b>
<b>MAINTENANCE.....</b>	<b>9</b>
<b>DRAWINGS AND REPLACEMENT PARTS.....</b>	<b>9</b>
Main Frame Assembly .....	10
Left Wing Frame Assembly .....	11
Right Wing Frame Assembly .....	12
Center Shroud Assembly .....	13
Left Wing Shroud Assembly.....	14
Right Wing Shroud Assembly .....	15
Plumbing Assembly .....	16
Flowmonitor Assembly .....	17
Electrical Assembly .....	18
Warranty .....	19

## Safety

---

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

---

### 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.
-----------------	--

## 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.
-----------------	--

## 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.



## American Application Rates at 20" Nozzle Spacing

### 80 Degree Tips

Rogers Part #	Tip Number	Tip Mfg	Liquid	Liq.	Cap.	U. S. GALLONS PER ACRE					U. S. GALLONS PER 1000 SQ. FT.				
			Press	Press	/noz.	2.5	3	4	5	7	2.5	3	4	5	7
			psi	bars	gpm	mph	mph	mph	mph	mph	mph	mph	mph	mph	mph
01369	8001VS (100 mesh)	Teejet	30	2.07	0.087	10.3	8.6	6.4	5.1	3.7	0.24	0.20	0.15	0.12	0.08
			40	2.76	0.100	11.9	9.9	7.4	5.9	4.2	0.27	0.23	0.17	0.14	0.10
			50	3.45	0.112	13.3	11.1	8.3	6.6	4.7	0.30	0.25	0.19	0.15	0.11
			60	4.14	0.122	14.5	12.1	9.1	7.3	5.2	0.33	0.28	0.21	0.17	0.12
00827 or 13351	80015VS API-80015 (100 mesh)	Teejet Albuz	30	2.07	0.130	15.4	12.9	9.6	7.7	5.5	0.35	0.29	0.22	0.18	0.13
			40	2.76	0.150	17.8	14.9	11.1	8.9	6.4	0.41	0.34	0.26	0.20	0.15
			50	3.45	0.168	19.9	16.6	12.5	10.0	7.1	0.46	0.38	0.29	0.23	0.16
			60	4.14	0.184	21.8	18.2	13.6	10.9	7.8	0.50	0.42	0.31	0.25	0.18
05876 or 14384	8002VS AXI-8002 (50 mesh)	Teejet Albuz	30	2.07	0.173	20.6	17.1	12.9	10.3	7.3	0.47	0.39	0.29	0.24	0.17
			40	2.76	0.200	23.8	19.8	14.9	11.9	8.5	0.54	0.45	0.34	0.27	0.19
			50	3.45	0.224	26.6	22.1	16.6	13.3	9.5	0.61	0.51	0.38	0.30	0.22
			60	4.14	0.245	29.1	24.2	18.2	14.5	10.4	0.67	0.56	0.42	0.33	0.24
05877 or 14385	8003VS AXI-8003 (50 mesh)	Teejet Albuz	30	2.07	0.260	30.9	25.7	19.3	15.4	11.0	0.71	0.59	0.44	0.35	0.25
			40	2.76	0.300	35.6	29.7	22.3	17.8	12.7	0.82	0.68	0.51	0.41	0.29
			50	3.45	0.335	39.8	33.2	24.9	19.9	14.2	0.91	0.76	0.57	0.46	0.33
			60	4.14	0.367	43.6	36.4	27.3	21.8	15.6	1.00	0.83	0.62	0.50	0.36
05878 or 14061	8004VS AXI-8004 (50 mesh)	Teejet Albuz	30	2.07	0.346	41.2	34.3	25.7	20.6	14.7	0.94	0.79	0.59	0.47	0.34
			40	2.76	0.400	47.5	39.6	29.7	23.8	17.0	1.09	0.91	0.68	0.54	0.39
			50	3.45	0.447	53.1	44.3	33.2	26.6	19.0	1.22	1.01	0.76	0.61	0.43
			60	4.14	0.490	58.2	48.5	36.4	29.1	20.8	1.33	1.11	0.83	0.67	0.48
05879 or 14386	8005VS AXI-8005 (50 mesh)	Teejet Albuz	30	2.07	0.433	51.4	42.9	32.2	25.7	18.4	1.18	0.98	0.74	0.59	0.42
			40	2.76	0.500	59.4	49.5	37.1	29.7	21.2	1.36	1.13	0.85	0.68	0.49
			50	3.45	0.559	66.4	55.3	41.5	33.2	23.7	1.52	1.27	0.95	0.76	0.54
			60	4.14	0.612	72.7	60.6	45.5	36.4	26.0	1.67	1.39	1.04	0.83	0.59
05880 or 14387	8006VS AXI-8006 (50 mesh)	Teejet Albuz	30	2.07	0.520	61.7	51.4	38.6	30.9	22.0	1.41	1.18	0.88	0.71	0.50
			40	2.76	0.600	71.3	59.4	44.6	35.6	25.5	1.63	1.36	1.02	0.82	0.58
			50	3.45	0.671	79.7	66.4	49.8	39.8	28.5	1.82	1.52	1.14	0.91	0.65
			60	4.14	0.735	87.3	72.7	54.6	43.6	31.2	2.00	1.67	1.25	1.00	0.71

NEW AXI Fast Cap / Tip Combos	
Part #	Description
15482	Tip Fast Cap AXI 80015 Green
15483	Tip Fast Cap AXI 8002 Yellow
15484	Tip Fast Cap AXI 8003 Blue
15485	Tip Fast Cap AXI 8004 Red
15486	Tip Fast Cap AXI 8005 Brown

## Metric Application Rates at 20" Nozzle Spacing (0.5 meters)

### 80 Degree Tips

Rogers Part #	Tip Number	Tip Mfg	Liquid	Liquid	Cap	U. S. GALLONS PER ACRE					Liters/Hectare				
			Press	Press	/noz.	2.5	3	4	5	7	4	4.8	6.4	8	11.2
			psi	bars	gpm	mph	mph	mph	mph	mph	kph	kph	kph	kph	kph
01369	8001VS (100 mesh)	Teejet	30	2.07	0.087	10.3	8.6	6.4	5.1	3.7	96	80	60	48	34
			40	2.76	0.100	11.9	9.9	7.4	5.9	4.2	111	93	69	56	40
			50	3.45	0.112	13.3	11.1	8.3	6.6	4.7	124	103	78	62	44
			60	4.14	0.122	14.5	12.1	9.1	7.3	5.2	136	113	85	68	49
00827 or 13351	80015VS API-80015 (100 mesh)	Teejet Albuz	30	2.07	0.130	15.4	12.9	9.6	7.7	5.5	144	120	90	72	52
			40	2.76	0.150	17.8	14.9	11.1	8.9	6.4	167	139	104	83	60
			50	3.45	0.168	19.9	16.6	12.5	10.0	7.1	186	155	116	93	67
			60	4.14	0.184	21.8	18.2	13.6	10.9	7.8	204	170	128	102	73
05876 or 14384	8002VS AXI-8002 (50 mesh)	Teejet Albuz	30	2.07	0.173	20.6	17.1	12.9	10.3	7.3	192	160	120	96	69
			40	2.76	0.200	23.8	19.8	14.9	11.9	8.5	222	185	139	111	79
			50	3.45	0.224	26.6	22.1	16.6	13.3	9.5	248	207	155	124	89
			60	4.14	0.245	29.1	24.2	18.2	14.5	10.4	272	227	170	136	97
05877 or 14385	8003VS AXI-8003 (50 mesh)	Teejet Albuz	30	2.07	0.260	30.9	25.7	19.3	15.4	11.0	289	240	180	144	103
			40	2.76	0.300	35.6	29.7	22.3	17.8	12.7	333	278	208	167	119
			50	3.45	0.335	39.8	33.2	24.9	19.9	14.2	373	310	233	186	133
			60	4.14	0.367	43.6	36.4	27.3	21.8	15.6	408	340	255	204	146
05878 or 14061	8004VS AXI-8004 (50 mesh)	Teejet Albuz	30	2.07	0.346	41.2	34.3	25.7	20.6	14.7	385	321	240	192	137
			40	2.76	0.400	47.5	39.6	29.7	23.8	17.0	444	370	278	222	159
			50	3.45	0.447	53.1	44.3	33.2	26.6	19.0	497	414	310	248	177
			60	4.14	0.490	58.2	48.5	36.4	29.1	20.8	544	453	340	272	194
05879 or 14386	8005VS AXI-8005 (50 mesh)	Teejet Albuz	30	2.07	0.433	51.4	42.9	32.2	25.7	18.4	481	401	301	240	172
			40	2.76	0.500	59.4	49.5	37.1	29.7	21.2	555	463	347	278	198
			50	3.45	0.559	66.4	55.3	41.5	33.2	23.7	621	517	388	310	222
			60	4.14	0.612	72.7	60.6	45.5	36.4	26.0	680	567	425	340	243
05880 or 14387	8006VS AXI-8006 (50 mesh)	Teejet Albuz	30	2.07	0.520	61.7	51.4	38.6	30.9	22.0	577	481	361	289	206
			40	2.76	0.600	71.3	59.4	44.6	35.6	25.5	666	555	417	333	238
			50	3.45	0.671	79.7	66.4	49.8	39.8	28.5	745	621	466	373	266
			60	4.14	0.735	87.3	72.7	54.6	43.6	31.2	816	680	510	408	292

NEW AXI Fast Cap / Tip Combos	
Part #	Description
15482	Tip Fast Cap AXI 80015 Green
15483	Tip Fast Cap AXI 8002 Yellow
15484	Tip Fast Cap AXI 8003 Blue
15485	Tip Fast Cap AXI 8004 Red
15486	Tip Fast Cap AXI 8005 Brown

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 (TM12 – 12ft(3.65m) 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

---

### 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

---

Ceramic insert tips are supplied with the **Windfoil TM series**; it can also use stainless steel, 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

---

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 TM** are not UV resistant.

Keep the unit covered or stored indoors.

## Drawings and Replacement Parts

---

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

Main Frame Assembly Part # 15340

ITEM

QTY

PART#

DESCRIPTION

19

2

14989

RUBBER WING STOP BK10/12

20

2

14990

EYEBOLT PLD BK SERIES

21

2

14992

BREAKAWAY CATCH BK10/12T

22

2

14995

PIN WING LOCKUP BK10/12

23

2

15050A

ROLL PIN 1/8" X 5/8"

24

4

15114

TANK LOCK ASSBY TM4/TM6

25

4

15239

PIN STL SQ WIRE LOCK 5/16X3-1/2

26

1

15329

MAIN FRAME ASSEMBLY TM4/TM6

27

2

15331

SPRING CPRN 3/8ID X 1.625 LG

28

4

15341

LEG ASSEMBLY TM12 (2018)

29

1

15814

NOZZLE ASBY, T TJ SHB 800234

30

2

15815

NOZZLE ASBY, T TJ DHB 800234

ITEM

QTY

PART#

DESCRIPTION

1

6

00956

NUT NYLOCK 3/8NC PLD

2

6

00957

WASHER FLAT 3/8 PLD

3

2

00968

NUT NYLOCK 1/4NC PLD

4

4

01051

NUT NYLOCK 5/8NC PLD

5

2

01157

WASHER FLAT SAE 1/4

6

2

04619

PIN LOWER LINK

7

2

04932

SPRING CPRN 0.395ID X 1.875LG SS

8

2

05249

SPRING CPRN 3/8ID X 1 LG SQ

9

2

05415

BOLT 1/4NCX4 PLD

10

2

05436

BOLT 3/8NCX2-1/2 PLD

11

2

05440

BOLT 3/8NCX4 PLD

12

2

05456

BOLT 5/8NCX4 PLD

13

2

05569

WASHER LOCK 3/8NC

14

1

06486

PIN TOP LINK 3/4X-5-1/2

15

2

12387

BOLT 5/8NCX5 PLD

16

3

14090

PIN LYNCH STL 0.375 X 1.5 PLD

17

6

14127

BUSHING IG 0.75x0.625x0.5" W/FL

18

2

14967

BREAKAWAY PIVOT ASBY

ROGERS SPRAYERS INC.

DATE CREATED: 3/7/2018

PROJECT: FRAME ASSEMBLY TM12 (2018)

TM SERIES: DWG NO 15340

DATE CHECKED: 3/7/2018

SCALE: 1/10

SHEET: 1

ROGERS SPRAYERS INC.

TITLE: FRAME ASSEMBLY TM12 (2018)

DWG NO: 15340

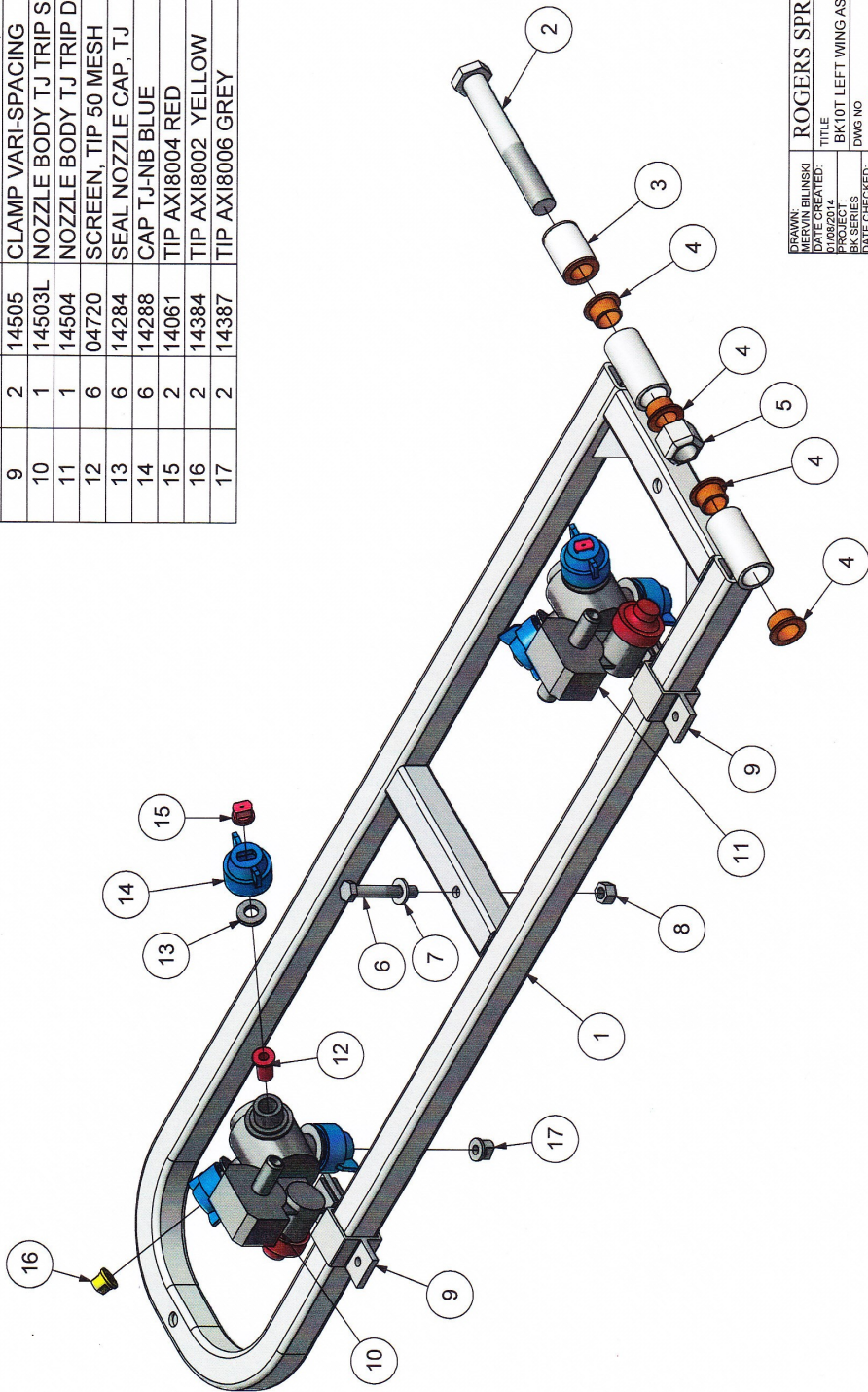
SCALE: 1/10

SHEET: 1



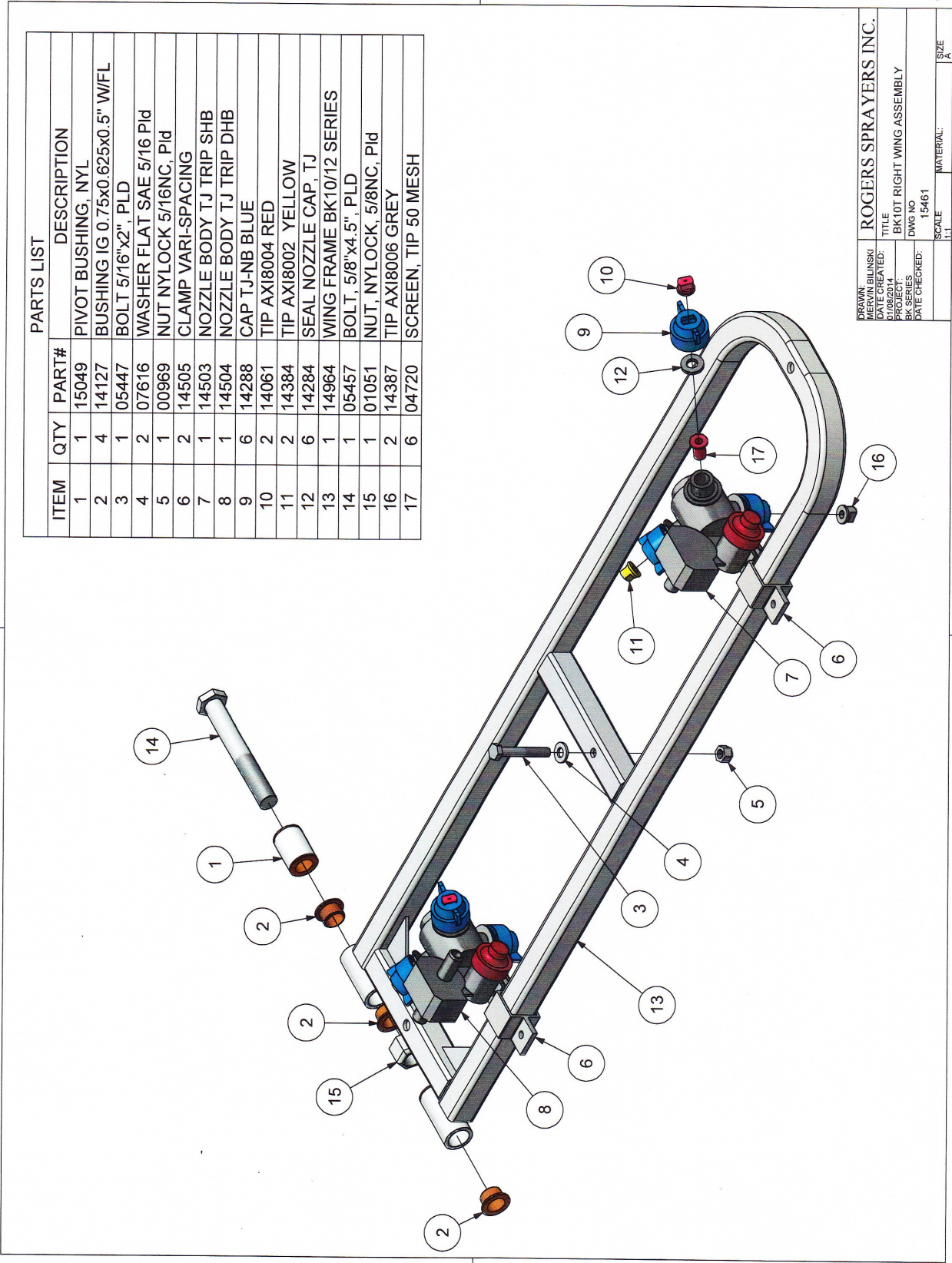
Left Wing Frame Assembly Part # 15462

PARTS LIST			
ITEM	QTY	PART#	DESCRIPTION
1	1	14964	WING FRAME BK10/12 SERIES
2	1	05457	BOLT, 5/8"x4.5", PLD
3	1	15049	PIVOT BUSHING, NYL
4	4	14127	BUSHING IG 0.75x0.625x0.5" W/FL
5	1	01051	NUT, NYLOCK, 5/8NC, Pld
6	1	05447	BOLT 5/16"x2", PLD
7	2	07616	WASHER FLAT SAE 5/16 Pld
8	1	00969	NUT NYLOCK 5/16NC, Pld
9	2	14505	CLAMP VARI-SPACING
10	1	14503L	NOZZLE BODY TJ TRIP SHB
11	1	14504	NOZZLE BODY TJ TRIP DHB
12	6	04720	SCREEN, TIP 50 MESH
13	6	14284	SEAL NOZZLE CAP, TJ
14	6	14288	CAP TJ-NB BLUE
15	2	14061	TIP AXI8004 RED
16	2	14384	TIP AXI8002 YELLOW
17	2	14387	TIP AXI8006 GREY



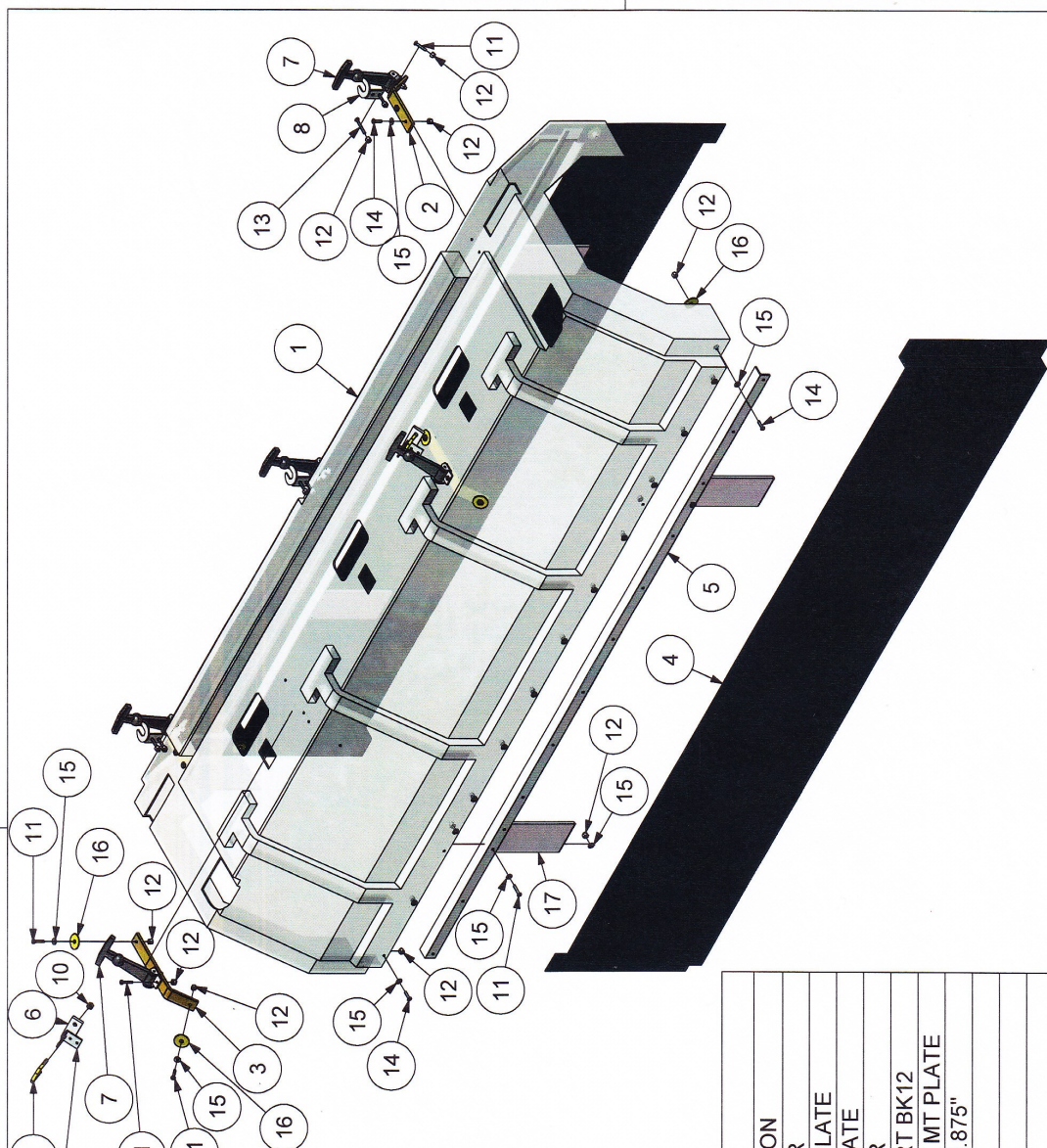
DRAWN: MERVIN BILINSKI		ROGERS SPRAYERS INC.	
DATE CREATED: 01/06/2014		TITLE: BK10T LEFT WING ASSEMBLY	
BY: MERVIN BILINSKI		DWG NO: 15462	
DATE CHECKED:		SCALE: 1:1	
		MATERIAL:	
		SIZE: A	

Right Wing Frame Assembly Part # 15461





Center Shroud Assembly Part # 15021C

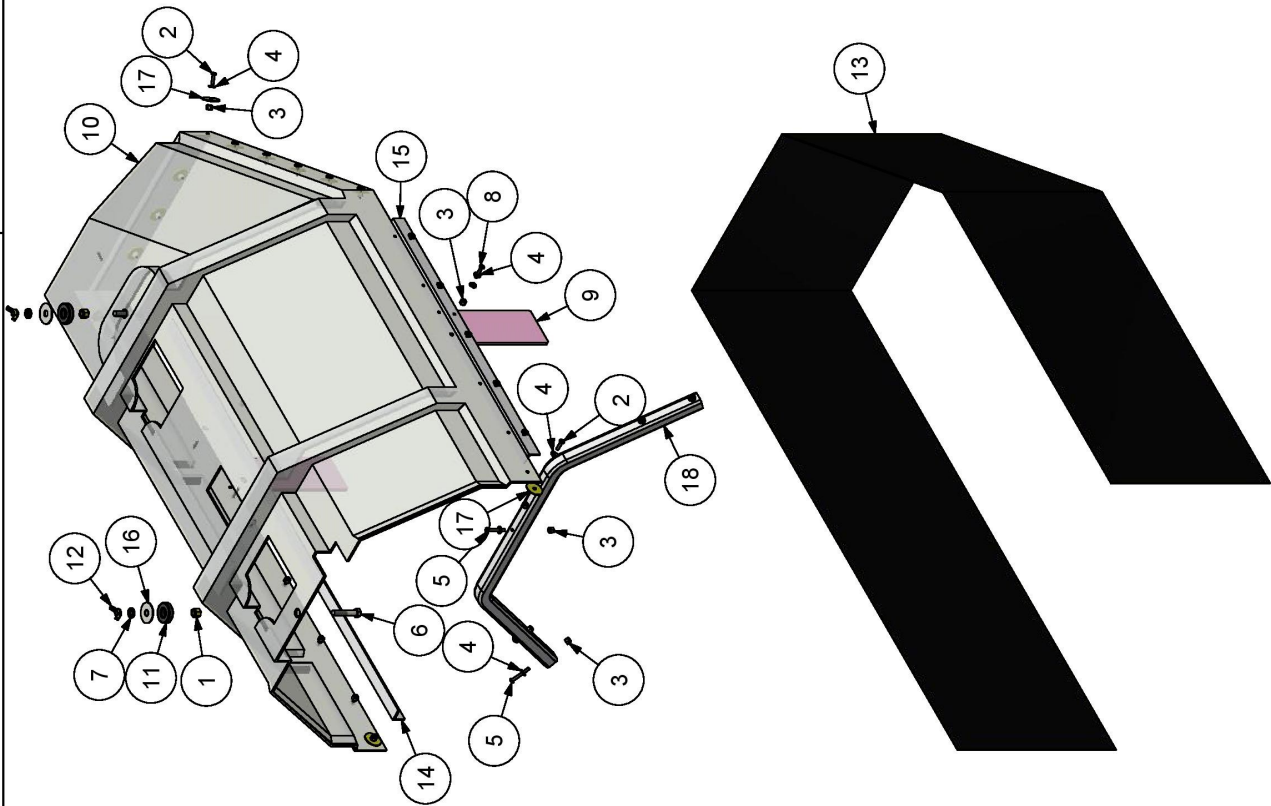


ITEM	QTY	PART#	DESCRIPTION
1	1	14949	SHROUD BK12T CENTER
2	2	14954	FRONT TOP SUPPORT PLATE
3	2	14955	BACK TOP SUPPORT PLATE
4	2	14957	FLEXISHIELD BK12T CTR
5	2	14952	SHROUD EDGE SUPPORT BK12
6	2	14953	CENTER SHROUD BACK MT PLATE
7	5	14956	HOOD LATCH RUBBER 4.875"
8	5	14956C	HOOD LATCH CATCH
9	2	01049	UBOLT, 1/4x1x2, SQ
10	4	00968	NUT NYLOCK 1/4" PLD
11	20	07157	SCREW MACH. #10-24x1, TRUSS
12	56	01153	NUT, NYLOCK #10-24 PLD
13	6	05385	SCREW MACH. #10-24x1.5, TRUSS
14	30	01152	SCREW MACH. #10-24x3/4, TRUSS
15	54	01183	WASHER FLAT #10
16	9	09754	WASHER, 1/4" FENDER
17	4	14261	CURTAIN SUPPORT LP FRONT

DRAWN: MERVIN BILINSKI		ROGERS SPRAYERS INC.	
DATE CREATED: 03/05/2010		TITLE: WIND DEFLECTOR CTR ASBY	
PROJECT: BK SERIES		DWG NO: 15021C	
DATE CHECKED:		SCALE: BEST FIT	
		MATERIAL: SIZE: A	

Left Wing Shroud Assembly Part # 15021L

PARTS LIST		
ITEM	QTY	PART# DESCRIPTION
1	2	00956 NUT, NYLOCK, 3/8NC, PLD
2	22	01152 SCREW MACH. #10-24x3/4, TRUSS
3	31	01153 NUT, NYLOCK #10-24 PLD
4	35	01183 WASHER FLAT #10
5	5	05385 SCREW MACH. #10-24x1.5, TRUSS
6	2	05435 BOLT, 3/8"x2", PLD
7	2	05569 WASHER LOCK 3/8 PLD
8	4	07157 SCREW MACH. #10-24x1, TRUSS
9	2	14261 CURTAIN SUPPORT LP FRONT
10	1	14948L SHROUD BK10T/12T WING L
11	2	14959 WASHER RUBBER BK WING
12	2	14960 NUT WING 3/8"
13	1	14961 FLEXI-SHIELD 14Wx115 BK WING
14	1	14962 WING LONG CURTAIN SUPPORT
15	1	14963 WING SHORT CURTAIN SUPPORT
16	2	14965 WASHER FENDER 3/8" PLD
17	12	15492 WASHER, 3/16" FENDER
18	1	15693 SPAR BK, COVER KIT



DRAWN: MERVIN BILINSKI	ROGERS SPRAYERS INC.		
DATE CREATED: 2/20/2015	TITLE WIND DEFLECTOR LEFT WING ASBY		
BY: M. BILINSKI	DWG NO 15021L		
DATE CHECKED:	SCALE 1/12		
	MATERIAL:		SIZE A

Right Wing Shroud Assembly Part # 15021R

Exploded view diagram of the Right Wing Shroud Assembly. The diagram shows a 3D perspective of the assembly with various components labeled with circled numbers 1 through 18. A separate 2D silhouette of the wing shroud is shown to the right, with a circled number 13 pointing to its top surface.

PARTS LIST		
ITEM	QTY	PART# DESCRIPTION
1	2	00956 NUT, NYLOCK, 3/8NC, PLD
2	22	01152 SCREW MACH. #10-24x3/4, TRUSS
3	31	01153 NUT, NYLOCK #10-24 PLD
4	35	01183 WASHER FLAT #10
5	5	05385 SCREW MACH. #10-24x1.5, TRUSS
6	2	05435 BOLT, 3/8"x2", PLD
7	2	05569 WASHER LOCK 3/8 PLD
8	4	07157 SCREW MACH. #10-24x1, TRUSS
9	2	14261 CURTAIN SUPPORT LP FRONT
10	1	14948R SHROUD BK10T/12T WING R
11	2	14959 WASHER RUBBER BK WING
12	2	14960 NUT WING 3/8"
13	1	14961 FLEXI-SHIELD 14Wx115 BK WING
14	1	14962 WING LONG CURTAIN SUPPORT
15	1	14963 WING SHORT CURTAIN SUPPORT
16	2	14965 WASHER FENDER 3/8" PLD
17	12	15492 WASHER, 3/16" FENDER
18	1	15693 SPAR BK, COVER KIT

APPROVED:  
MERVIN BILINSKI

DATE CREATED:  
23/03/2015

PROJECT:  
WIND DEFLECTOR RIGHT WING ASBY

DWG NO:  
15021R

DATE CHECKED:

SCALE:  
1/12

MATERIAL:

SIZE:  
A

ROGERS SPRAYERS INC.



Plumbing Assembly Part # 14218

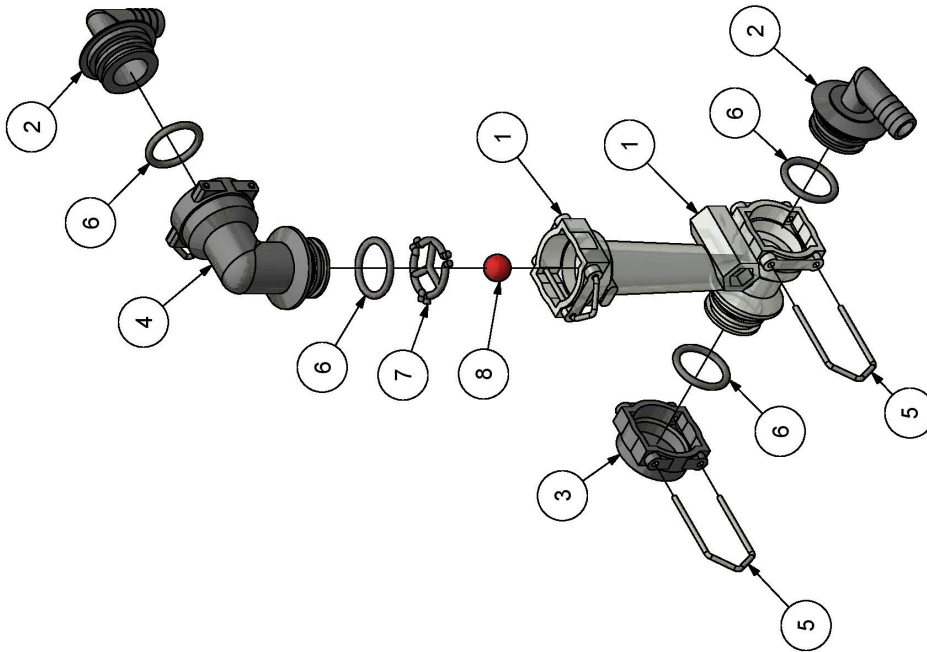
ITEM		QTY	PART#	DESCRIPTION
18	11	01157	WASHER FLAT SAE 1/4	
19	4	01164	BOLT 1/4NCX1 PLD	
20	4	05385	SCREW MACH C #10-24X1.5	
21	4	01183	WASHER FLAT #10	
22	4	01153	NUT NYLOCK #10 PLD	
23	2	15814	NOZZLE ASBY, T TJ SHB 800234	
24	1	15815	NOZZLE ASBY, T TJ DHB 800234	
25	3	14505	CLAMP VARI-SPACING	

ITEM		QTY	PART#	DESCRIPTION
1	1	14499	PUMP 12V DEL 7870 SERIES	
2	3	14217	FLOW KIT TM12T	
3	1	15076TM1012	TANK RECT 50 USG, TM10/TM12	
4	1	01076	FTG POLY ELB ST 3/4 NPT	
5	4	01349	FTG POLY ADPT 3/4MNPTX3/4HB	
6	1	01250	VALVE BALL POLY 3/4FNPT	
7	1	14027	STRAINER LINE 3/4 COMPACT W/MIT	
8	2	01245	FTG POLY ELB 3/4MNPTX3/4HB	
9	3	01238	FTG POLY ELB 1/2MNPTX3/4HB	
10	3	01209	VALVE MANUAL BOOM CONTROL DEL/BLUE	
11	2	01193	FTG POLY NIPPLE 3/4MNPT/MNPT	
12	1	14413	VALVE THROTTLE POLY 3/4MNPT	
13	3	05527	FTG POLY ADPT 1/2MNPTX1/2HB	
14	1	01281	GAUGE PRESSURE 100PSI WET	
15	1	15741	FTG POLY ELB ST 1/4 NPT	
16	3	01070	BOLT 1/4NCX2 PLD	
17	7	00968	NUT NYLOCK 1/4NC PLD	

DRAWN:  
DARSHAN SEJPAL  
DATE CREATED:  
4/18/2018  
PROJECT:  
PLUMBING ASSEMBLY TM12T  
DWG NO  
14218  
DATE CHECKED:  
4/18/2018  
SCALE  
17.16  
MATERIAL:  
SIZE  
A

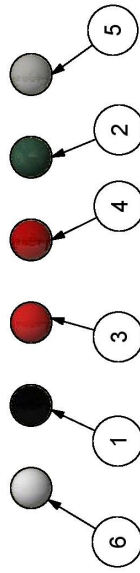
ROGERS SPRAYERS INC.

## Flowmonitor Assembly Part # 14217



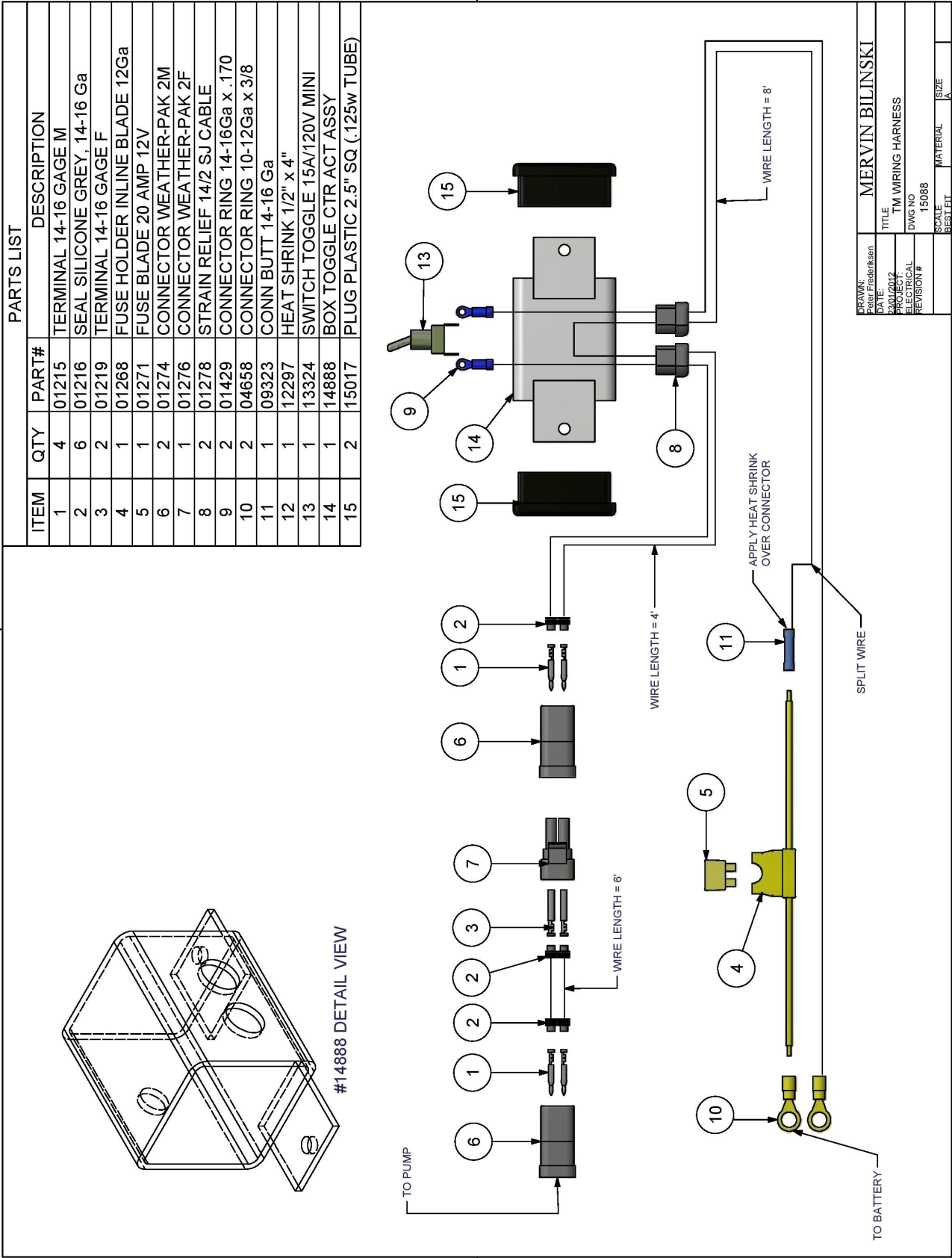
PARTS LIST			
ITEM	QTY	PART#	DESCRIPTION
1	1	00889	FLOWMONITOR BODY ORC
2	2	00906	FTG WIL POLY ELB ST MORCXFORC
3	1	00909	FTG WIL POLY END CAP
4	1	01115	FTG WIL POLY ELB ST MORCXFORC
5	4	1976a	ORC CLIP A STYLE
6	4	11984	O-RING ORC FLOWMONITOR
7	1	11989	BALL RETAINER ORC FLOWMONITOR
8	1	11990	BALL FI: CELCON RED (0.09-0.30)

PARTS LIST			
ITEM	QTY	PART#	DESCRIPTION
1	1	01118	BALL FI. POLYP BLACK (0.09-0.3)
2	1	01119	BALL FI. POLYP GREEN (0.05-0.18)
3	1	11990	BALL FI. CELCON RED (0.09-0.30)
4	1	11965	BALL FI. GLASS RED/BLUE (0.09-0.72)
5	1	11991	BALL FI. SS (0.31-1.33)
6	1	11964	BALL FI. POLYP WHITE (0.05-0.20)



DRAWN: DARGHAN SE'IPAL	ROGERS SPRAYERS INC.	
DATE CREATED: 10/20/2016	TITLE FLOW KIT TM12T	
PROJECT: TM SERIES	DWG NO 14217	
DATE CHECKED: 4/18/2018	SCALE 1/3	SIZE A

Electrical Assembly Part # 15088



**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.**

141 - 105th Street East  
Saskatoon, SK S7N 1Z2  
Canada

Phone: (306) 975-0500  
Fax: (306) 975-0499  
Email: [info@rogerssprayers.com](mailto:info@rogerssprayers.com)  
Web: [www.rogerssprayers.com](http://www.rogerssprayers.com)