

Rogers Sprayers Inc.

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Model: ETT2000/FET2000



Operators, Assembly and Parts Manual

Table of Contents

Minimize Chemical Drift.....	2
Nozzles.....	2
Trouble Shooting.....	2
Cleaning.....	2
Winterizing.....	2
Calibration.....	2
Application Rate Tables.....	3
Main Assembly.....	5
Plumbing.....	6
ORC Assembly.....	8
Wiring Harness.....	9
Declaration of Conformity.....	10

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Minimize Chemical Drift

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

Nozzles

The Turf Electric is equipped with 110° spray tips, spaced at 20". Tips are mounted with self-aligning ¼ turn caps for easy removal or change. Tips that are greater than 110° will cause dripping from the outside edges of the sprayer.

Trouble Shooting

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

Cleaning

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

Winterizing

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

Calibration

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

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

After the nozzles have been individually checked, the sprayer should be calibrated to determine the correct speed for the desired application volume. To get area covered, multiply the width [ETT1000, 3.3'(1m), ETT1500, 5'(1.5m), ETT2000, 6.7'(2m)] X distance.

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

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

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

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

Application Rate Tables

Table 3: API Nozzle Application Rates for 20" (50cm) Spacing

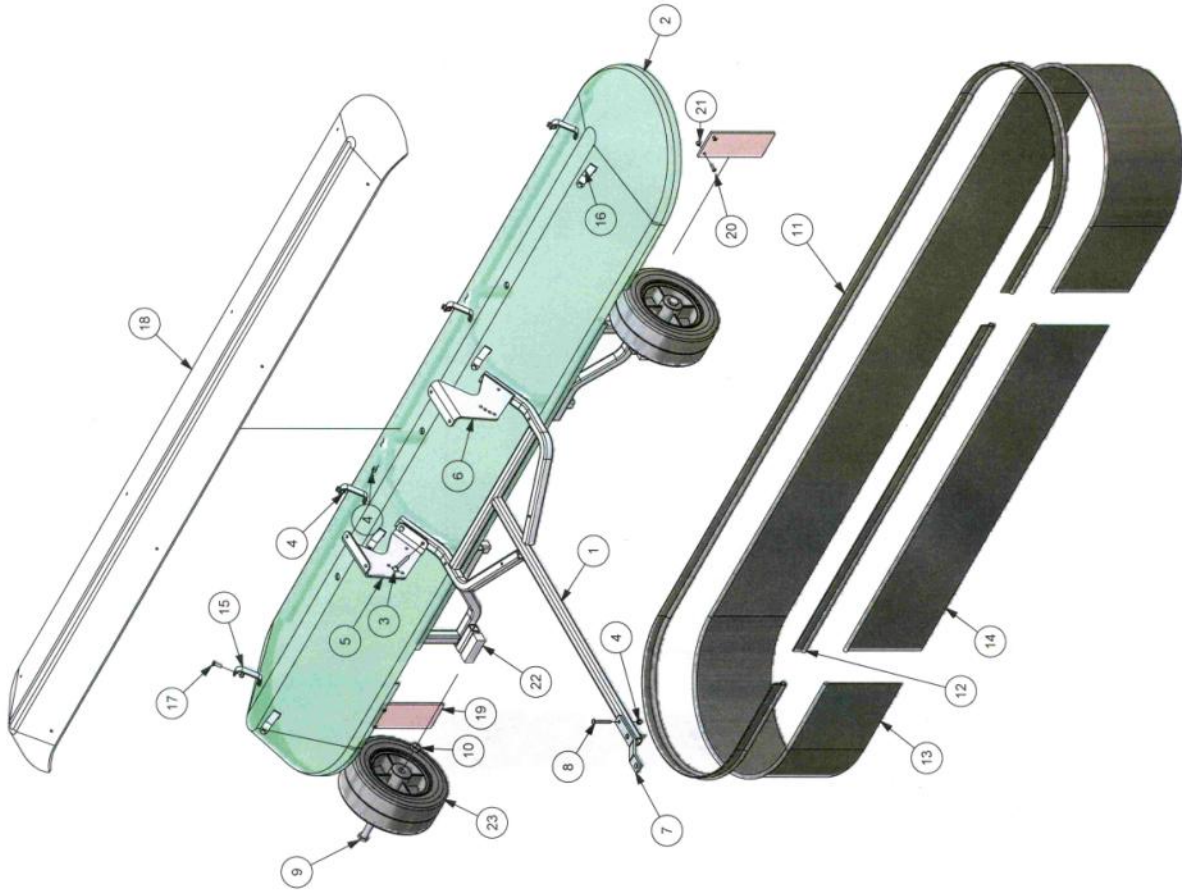
Tip (screen) 80°	Liquid PRESS. in PSI	FLOW in GPM 1 Tip	US Gal/1000sqft – 20" Spacing			FLOW in L/m 1 Tip	L/ha – ½ m Spacing		
			2.5 MPH	3 MPH	4 MPH		4 km/h	5 km/h	6 km/h
API 80015 (80 Mesh) Green Part # 13351	30	0.13	0.36	0.30	0.22	0.49	148	118	99
	35	0.14	0.38	0.32	0.24	0.53	159	127	106
	40	0.15	0.41	0.34	0.26	0.57	171	137	114
	45	0.16	0.44	0.37	0.28	0.61	182	146	121
API 8002 (50 Mesh) Yellow Part # 12422	30	0.17	0.47	0.39	0.29	0.64	193	155	129
	35	0.19	0.52	0.43	0.33	0.72	216	173	144
	40	0.20	0.55	0.46	0.34	0.76	227	182	152
	45	0.21	0.58	0.48	0.36	0.79	239	191	159
API 8003 (50 Mesh) Blue Part # 13352	30	0.26	0.71	0.59	0.45	0.98	295	236	197
	35	0.28	0.77	0.64	0.48	1.06	318	255	212
	40	0.30	0.82	0.68	0.51	1.14	341	273	227
	45	0.32	0.88	0.73	0.55	1.21	364	291	242
API 8004 (50 Mesh) Red Part # 12423	30	0.35	0.96	0.80	0.60	1.32	398	318	265
	35	0.38	1.04	0.87	0.65	1.44	432	345	288
	40	0.41	1.12	0.93	0.70	1.55	466	373	311
	45	0.43	1.18	0.98	0.74	1.63	489	391	326
API 8005 (50 Mesh) Brown Part # 12424	30	0.44	1.20	1.00	0.75	1.67	500	400	333
	35	0.47	1.28	1.07	0.80	1.78	534	427	356
	40	0.51	1.39	1.16	0.87	1.93	579	464	386
	45	0.54	1.48	1.23	0.92	2.04	613	491	409
API 8006 (50 Mesh) Grey Part # 12425	30	0.52	1.42	1.18	0.89	1.97	591	473	394
	35	0.56	1.53	1.28	0.96	2.12	636	509	424
	40	0.60	1.64	1.37	1.03	2.27	682	545	454
	45	0.64	1.75	1.46	1.09	2.42	727	582	485

Table 4: Tee Jet Application Rate for 20” (50

Tip (Screen) Colour	Liquid Press. psi	Capacity 1 nozzle gpm	U.S. Gal/1000 Sq. Ft.			FLOW l/min 1 Tip	L/ha – ½ m Spacing		
			2.5 mph	3 mph	4 mph		4 km/h	5 km/h	6 km/h
800067-SS (200 mesh) Part # 05872	30	0.06	0.15	0.15	0.10	0.23	91	68	55
	40	0.07	0.20	0.15	0.10	0.25	102	76	61
	60	0.08	0.28	0.20	0.15	0.30	121	91	73
8001 (100 mesh) Orange Part # 01369	30	0.09	0.25	0.20	0.15	0.34	102	82	68
	40	0.10	0.30	0.25	0.15	0.38	114	91	76
	60	0.12	0.35	0.30	0.20	0.45	137	109	91
80015 (100 mesh) Green Part # 00827	30	0.13	0.36	0.30	0.22	0.49	148	118	99
	40	0.15	0.41	0.34	0.26	0.57	171	137	114
	50	0.17	0.47	0.39	0.29	0.64	193	155	129
	60	0.18	0.49	0.41	0.31	0.68	205	164	137
8002 (50 mesh) Yellow Part # 05876	30	0.17	0.47	0.39	0.29	0.64	193	155	129
	40	0.20	0.55	0.46	0.34	0.76	227	182	152
	50	0.22	0.60	0.50	0.38	0.83	250	200	167
	60	0.25	0.68	0.57	0.43	0.95	284	227	190
8003 (50 mesh) Blue Part # 05877	30	0.26	0.71	0.59	0.45	0.98	295	236	197
	40	0.30	0.82	0.68	0.51	1.14	341	273	227
	50	0.34	0.93	0.78	0.58	1.29	386	309	258
	60	0.37	1.01	0.84	0.63	1.40	420	336	280
8004 (50 mesh) Red Part # 05878	30	0.35	0.96	0.80	0.60	1.32	398	318	265
	40	0.40	1.09	0.91	0.68	1.51	454	364	303
	50	0.45	1.23	1.03	0.77	1.70	511	409	341
	60	0.49	1.34	1.12	0.84	1.85	557	445	371
8005 (50 mesh) Brown Part # 05879	30	0.43	1.18	0.98	0.74	1.63	489	391	326
	40	0.50	1.37	1.14	0.85	1.89	568	454	379
	50	0.56	1.53	1.28	0.96	2.12	636	509	424
	60	0.61	1.67	1.39	1.04	2.31	693	554	462
8006 (50 mesh) Grey Part # 05880	30	0.52	1.42	1.18	0.89	1.97	591	473	394
	40	0.60	1.64	1.37	1.03	2.27	682	545	454
	50	0.67	1.83	1.53	1.14	2.54	761	609	507
	60	0.74	2.02	1.68	1.26	2.80	841	672	560
8008 (50 Mesh) White Part # 05881	30	0.69	1.90	1.55	1.31	1567	627	553	448
	40	0.80	2.20	1.80	1.52	2423	909	727	519
	60	0.98	2.70	2.25	1.86	2226	891	742	636

Main Assembly

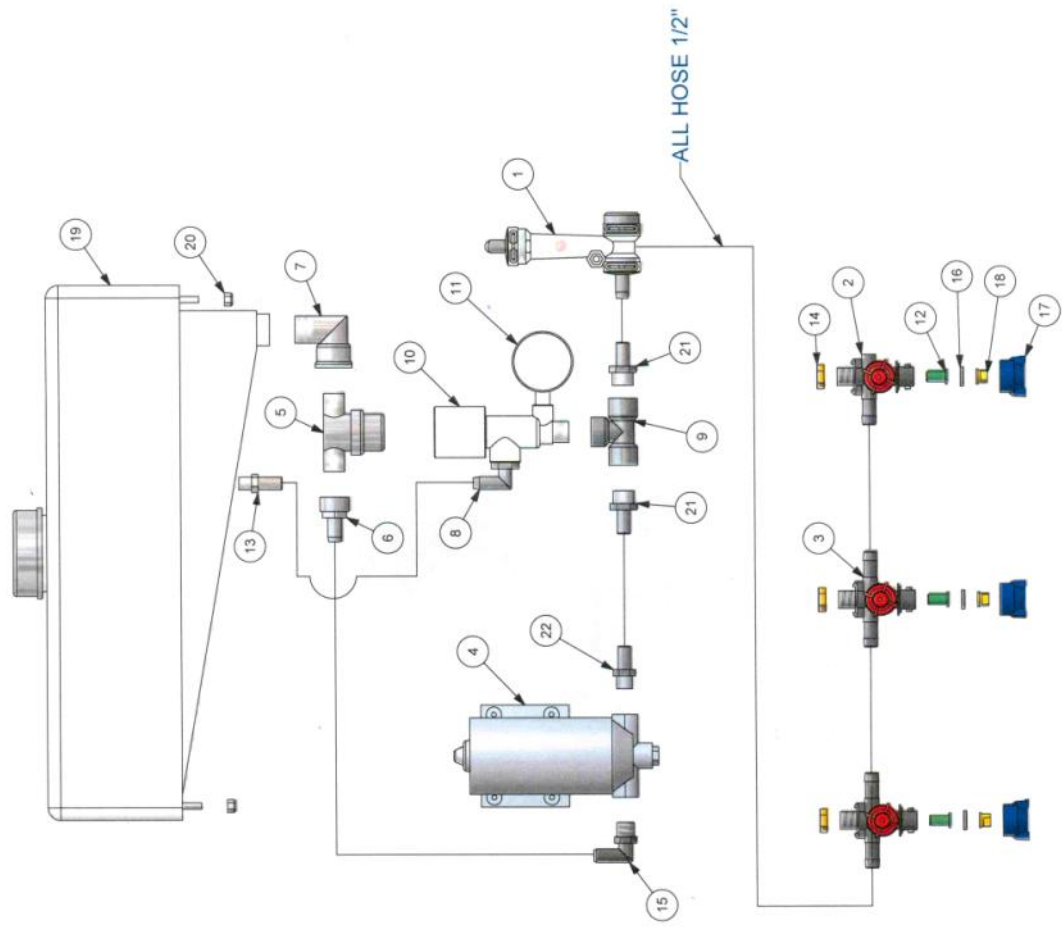
ITEM	QTY	PART#	DESCRIPTION
1	1	14003	HITCH, 1500/1000 FRAME
2	1	14324	SHROUD FET2000
3	4	14287	BOLT, 1/4NCX2.75, PLD
4	22	00968	NUT, NYLOCK 1/4" PLD
5	1	07134L	TANK MOUNT WALKER LEFT
6	1	07134R	TANK MOUNT WALKER RIGHT
7	1	14005	HITCH PLATE, 1" TUBE
8	2	14247	BOLT CARRIAGE 1/4NCX2
9	2	12387	BOLT, 5/8"x5", PLD
10	2	13709	NUT, JAM 5/8NC, Pld
11	1	14206	FLEXISHIELD HANGER, 151"
12	1	14207	FLEXISHIELD HANGER, 44 625"
13	1	14208	FLEXISHIELD 9 625" x 151"
14	1	14209	FLEXISHIELD 9 625" x 44 625"
15	4	13478	STANDOFF, BACK (SHORT)
16	4	13479	STANDOFF, FRONT (LONG)
17	16	01154	BOLT, 1/4NCX3/4, PLD
18	1	01654	AIRFOIL 88"
19	2	14261	CURTAIN SUPPORT LP FRONT
20	4	01152	SCREW MACH. #10-24X3/4, TRUSS
21	4	01153	NUT, NYLOCK #10-24 PLD
22	1	15296	FRAME ETT
23	2	14475	WHEEL POLY ASSY 5/8ID



DRAWN: MERV BLINSKI		ROGERS SPRAYERS INC.	
DATE:	LOCATION:	TITLE:	FET2000 ASSEMBLY
LOW PROFILE	REVISION#:	DWG NO:	FET2000 Assembly
SCALE:	BEST FIT:	MATERIAL:	SIZE: A

Plumbing Assembly

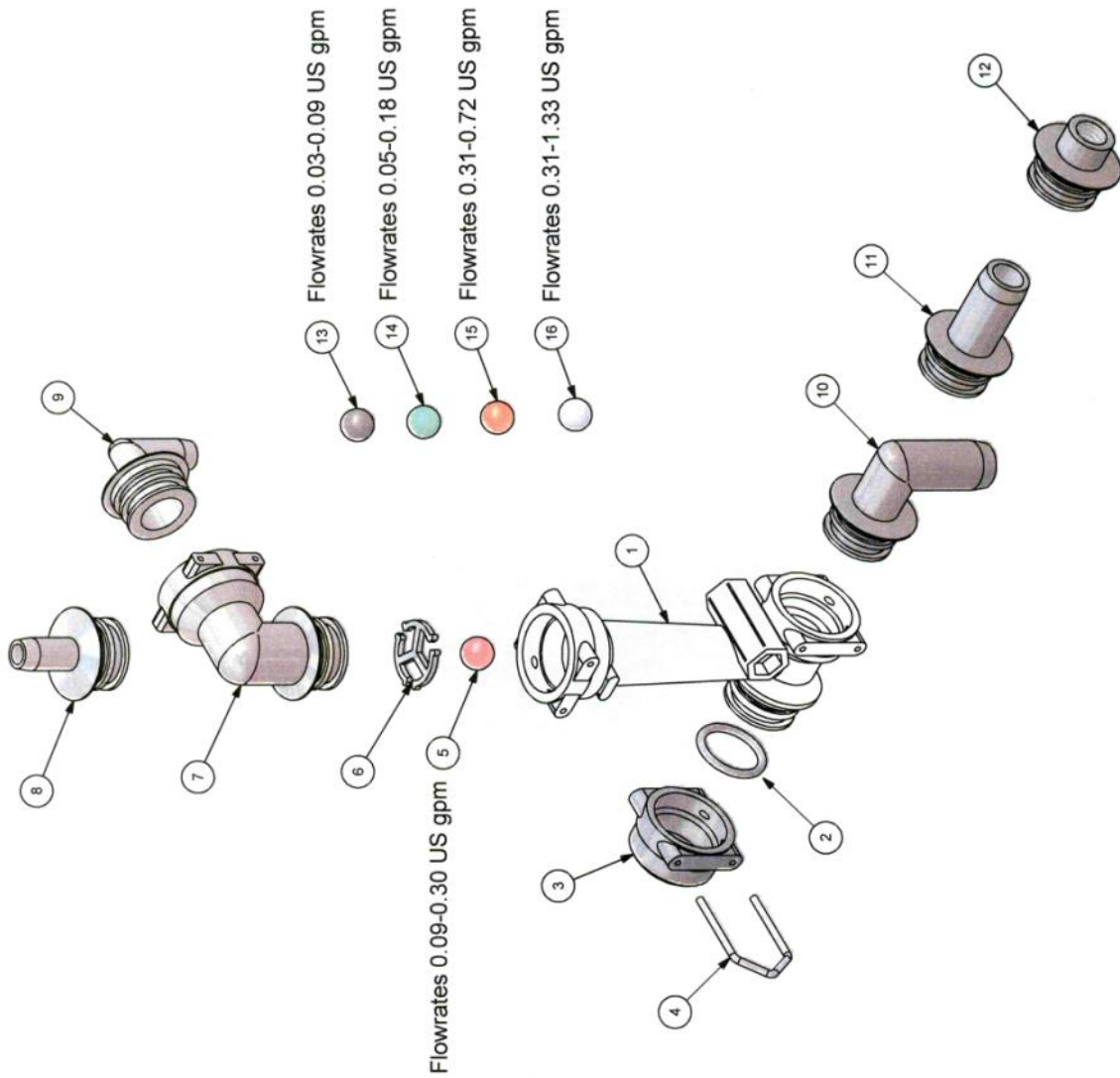
Parts List			
ITEM	QTY	PART#	DESCRIPTION
1	1	14500	FLOW INDICATOR ETT MODELS
2	1	14282	NOZZLE BODY, T.J15L
3	2	14283	NOZZLE BODY, T.J15T
4	1	13307	PUMP 1.0-1.8 USGMP, 40PSI
5	1	07103	STRAINER LINE 1/2MNPT TAPPED
6	1	14269	FTG POLY ADPT 1/2FNPT x 1/2HB
7	1	01076	FTG POLY ELB ST 3/4MNPTx3/4FNPT
8	1	01235	FTG POLY ELB 1/2MNPTx1/2HB
9	1	01084	FTG POLY TEE 1/2NPT FIF/F
10	1	12818	REGULATOR PRESSURE NYLON 1/2"
11	1	01281	PRESSURE GAUGE
12	3	00829	SCREEN, TIP 100 MESH
13	1	01202	FTG POLY ADPT 1/4MNPTx1/2HB
14	3	12362	NUT BRASS, 11/16"
15	1	01247	FTG POLY ELB 3/8MNPTx1/2HB
16	3	14284	SEAL NOZZLE CAP, T.J
17	3	14288	CAP T.J-NB BLUE
18	3	07570	TIP, 11002VS, YELLOW
19	1	01988	TANK RECT. 5USG W/LID
20	4	00968	NUT, NYLOCK 1/4" PLD
21	2	05527	FTG POLY ADPT 1/2MNPTx1/2HB
22	1	01206	FTG POLY ADPT 3/8MNPTx1/2HB



DRAWN: DAVE BILLING	ROGERS SPRAYERS INC.
DATE: 11/22/00	TITLE PLUMBING ASSY FET&ETT2000
LOCATION: PLUMBING	DWG NO: PLUMBING ASSY
REVISION #	SCALE: FET&ETT2000
	MATERIAL BEST FIT
	SIZE A

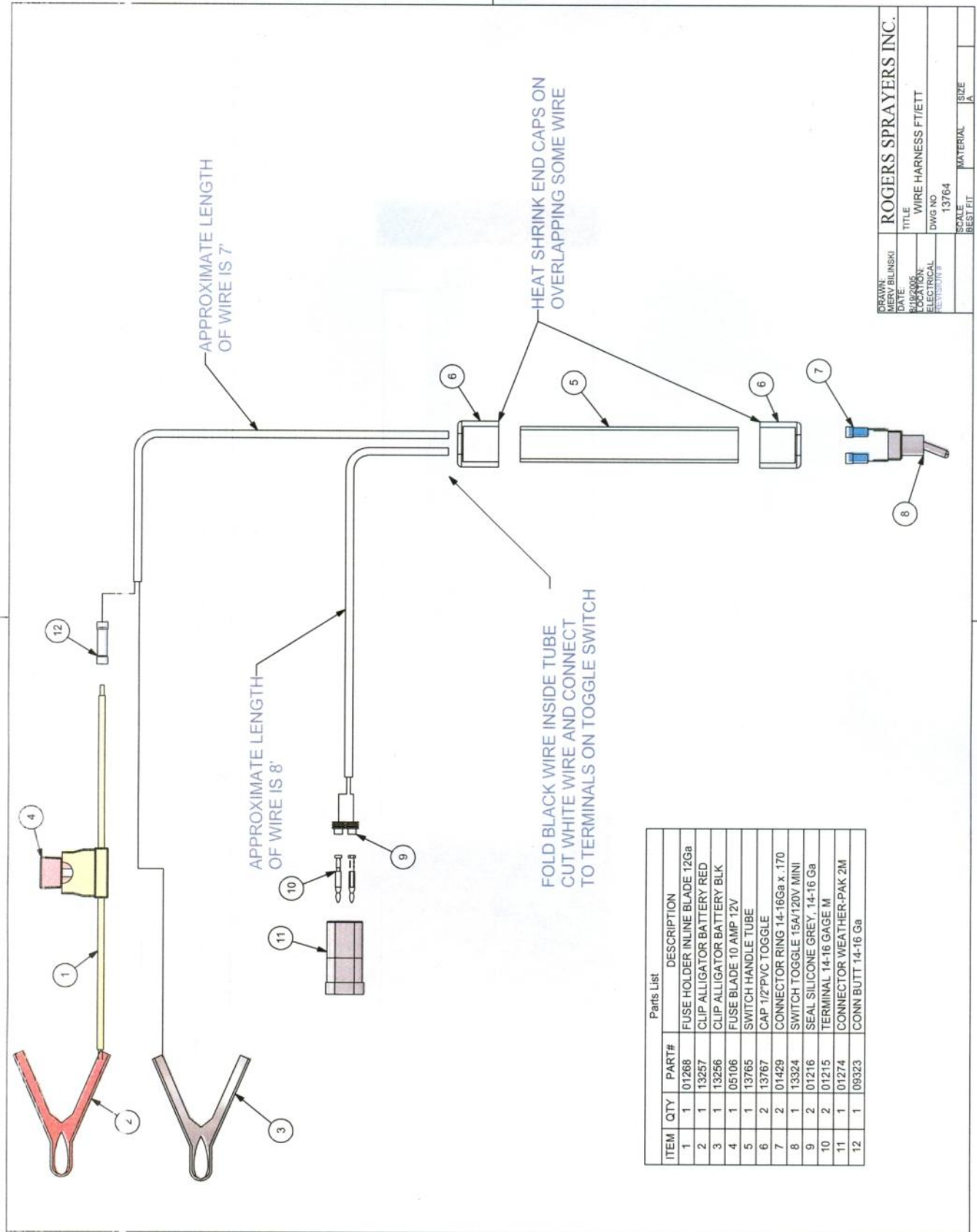
ORC Assembly

Parts List			
ITEM	QTY	PART#	DESCRIPTION
1	1	00889	FLOWMONITOR ORC BODY
2	1	11984	O-RING ORC
3	1	00909	FTG POLY ORC CAP
4	1	11976a	ORC CLIP
5	1	11990	BALL FI CELCON 0.09-0.3 USGPM
6	1	11989	ORC BALL RETAINER
7	1	01115	FTG POLY ELB ST MORC x FORC
8	1	11975	FTG POLY ADPT MORC x 1/2HB
9	1	00906	FTG POLY ELB MORC x 1/2HB
10	1	00905	FTG POLY ELB MORC x 3/4HB
11	1	00903	FTG POLY ADPT MORC x 1/4FNPT
12	1	12727	BALL FI POLY 0.03-0.09 USGPM
13	1	01119	BALL FI POLY 0.05-0.18 USGPM
14	1	11965	BALL FI GLASS 0.31-0.72 USGPM
15	1	11965	BALL FI GLASS 0.31-0.72 USGPM
16	1	11991	BALL FI SS 1/2" 0.31-1.33 USGPM



DRAWN: JERRY BILINSKI		ROGERS SPRAYERS INC.	
DATE:		TITLE	ORC ROTOMETER PARTS
LOCATION:		DWG NO	11992
PLUMBING		SCALE	
REVISION #		MATERIAL	
		RECT LET	SIZE

Wiring Harness



DESIGN:	ROGERS SPRAYERS INC.
DATE:	
REVISION:	
LOCATION:	
REVISION #:	
SCALE:	BEST FIT
MATERIAL:	
SIZE:	A
TITLE:	WIRE HARNESS FT/ETT
DWG NO:	13764



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