



Customer Service Bulletin Commercial Business Group

January 15, 2002

Open Booms On MultiPro and Workman Sprayers

Model Range:

Model Numbers:

41020
41021
41080

Subject: Delavan Nozzles Discontinued

Situation: Delavan Industries is no longer in business. As a result Toro will no longer be able to supply the Delavan Raindrop Nozzles used on sprayers **produced prior to 1998.**

Part numbers 93-6428, 92-3977, 43082, 41088, 42828, 40444, 92-0027 and 93-0903 will be discontinued once current inventories are depleted.

Raindrop nozzles were used as standard production items on Open Boom Kits 41020, 41021 & 41080 until 1998 production when the Turf Jet Nozzles were introduced.

Correction: Once inventories of Delavan Raindrop Nozzles have been depleted, Turf Jet Nozzles should be substituted as the replacement nozzle. All eleven (11) nozzles need to be replaced as a set. These replacement nozzles may be ordered from your Toro Distributor.

Turf Jet Nozzle charts are provided with this bulletin.

When installing Turf Jet Nozzles, the Nozzle Bodies may need to be repositioned so that the Turf Jet Nozzles are at a 90° angle with the turf.

Toro Turf-Jet NOZZLE SELECTION CHART

Gallons Per Acre Application Rates

Toro Part Number	Nozzle Number Color-Code	Pressure (PSIG)	Capacity 1-Nozzle (GPM)	Gallons Per Acre at 20 Inch Spacing							
				2.5 MPH	3 MPH	3.5 MPH	4 MPH	4.5 MPH	5 MPH	5.5 MPH	6 MPH
95-9221	Yellow	20	0.14	16.6	13.9	11.9	10.4	9.2	8.3	7.6	6.9
		30	0.17	20.2	16.8	14.4	12.6	11.2	10.1	9.2	8.4
		40	0.20	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9
		50	0.22	26.1	21.8	18.7	16.3	14.5	13.1	11.9	10.9
95-9222	Red	20	0.28	33	28	24	21	18	17	15	14
		30	0.35	42	35	30	26	23	21	19	17
		40	0.40	48	40	34	30	26	24	22	20
		50	0.45	53	45	38	33	30	27	24	22
95-9223	Brown	20	0.35	42	35	30	26	23	21	19	17
		30	0.43	51	43	36	32	28	26	23	21
		40	0.50	59	50	42	37	33	30	27	25
		50	0.56	67	55	48	42	37	33	30	28
95-9224	Gray	20	0.42	50	42	36	31	28	25	23	21
		30	0.52	62	51	44	39	34	31	28	26
		40	0.60	71	59	51	45	40	36	32	30
		50	0.67	80	66	57	50	44	40	36	33
95-9225	White	20	0.57	68	56	48	42	38	34	31	28
		30	0.69	82	68	59	51	46	41	37	34
		40	0.80	95	79	68	59	53	48	43	40
		50	0.89	106	88	76	66	59	53	48	44
95-9188	Light Blue	20	0.71	84	70	60	53	47	42	38	35
		30	0.87	103	86	74	65	57	52	47	43
		40	1.00	119	99	85	74	66	59	54	50
		50	1.12	133	111	95	83	74	67	60	55
95-9226	Light Green	20	1.06	126	105	90	79	70	63	57	52
		30	1.30	154	129	110	97	86	77	70	64
		40	1.50	178	149	127	111	99	89	81	74
		50	1.68	200	166	143	125	111	100	91	83

Gallons Per 1,000 sq. ft. Application Rates

Toro Part Number	Nozzle Number Color-Code	Pressure (PSIG)	Capacity 1-Nozzle (GPM)	Gallons Per 1,000 sq. ft. at 20 Inch Spacing							
				2.5 MPH	3 MPH	3.5 MPH	4 MPH	4.5 MPH	5 MPH	5.5 MPH	6 MPH
95-9221	Yellow	20	0.14	0.38	0.32	0.27	0.24	0.21	0.19	0.17	0.16
		30	0.17	0.46	0.39	0.33	0.29	0.26	0.23	0.21	0.19
		40	0.20	0.54	0.45	0.39	0.34	0.30	0.27	0.25	0.23
		50	0.22	0.60	0.50	0.43	0.37	0.33	0.30	0.27	0.25
95-9222	Red	20	0.28	0.76	0.63	0.54	0.48	0.42	0.38	0.35	0.32
		30	0.35	0.95	0.79	0.68	0.60	0.53	0.48	0.43	0.40
		40	0.40	1.09	0.91	0.78	0.68	0.60	0.54	0.49	0.45
		50	0.45	1.22	1.02	0.87	0.77	0.68	0.61	0.56	0.51
95-9223	Brown	20	0.35	0.95	0.79	0.68	0.60	0.53	0.48	0.43	0.40
		30	0.43	1.17	0.97	0.84	0.73	0.65	0.58	0.53	0.49
		40	0.50	1.36	1.13	0.97	0.85	0.76	0.68	0.62	0.57
		50	0.56	1.52	1.27	1.09	0.95	0.85	0.76	0.69	0.63
95-9224	Gray	20	0.42	1.14	0.95	0.82	0.71	0.63	0.57	0.52	0.48
		30	0.52	1.41	1.18	1.01	0.88	0.79	0.71	0.64	0.59
		40	0.60	1.63	1.36	1.17	1.02	0.97	0.82	0.74	0.68
		50	0.67	1.82	1.52	1.30	1.14	1.01	0.91	0.83	0.76
95-9225	White	20	0.57	1.55	1.29	1.11	0.97	0.86	0.78	0.70	0.65
		30	0.69	1.88	1.56	1.34	1.17	1.04	0.94	0.85	0.78
		40	0.80	2.18	1.81	1.55	1.36	1.12	1.09	0.99	0.91
		50	0.89	2.42	2.02	1.73	1.51	1.34	1.12	1.10	1.01
95-9188	Light Blue	20	0.71	1.93	1.61	1.38	1.21	1.07	0.97	0.88	0.80
		30	0.87	2.37	1.97	1.69	1.48	1.31	1.18	1.08	0.99
		40	1.00	2.72	2.27	1.94	1.70	1.51	1.36	1.24	1.13
		50	1.12	3.05	2.54	2.18	1.90	1.69	1.52	1.38	1.27
95-9226	Light Green	20	1.06	2.88	2.40	2.06	1.80	1.60	1.44	1.13	1.20
		30	1.30	3.54	2.95	2.53	2.21	1.96	1.77	1.61	1.47
		40	1.50	4.08	3.40	2.91	2.55	2.27	2.04	1.85	1.70
		50	1.68	4.57	3.81	3.26	2.86	2.54	2.28	2.08	1.90

Toro Turf-Jet Nozzles

NOZZLE SELECTION CHART

Liters Per Hectare Application Rates

Toro Part Number	Nozzle Number Color-Code	Pressure (kPa)	Capacity 1-Nozzle (L/min)	Liters per Hectare at 50 cm Spacing							
				4km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	11 km/h
95-9221	Yellow	150	0.53	159	127	106	91	80	71	64	58
		200	0.64	192	154	128	110	96	85	77	70
		275	0.76	228	182	152	130	114	101	91	83
		350	0.83	249	199	166	142	125	111	100	91
95-9222	Red	150	1.06	318	254	212	182	159	141	127	116
		200	1.32	396	317	264	226	198	176	158	144
		275	1.51	453	362	302	259	227	201	181	165
		350	1.70	510	408	340	291	255	227	204	185
95-9223	Brown	150	1.40	420	336	280	240	210	187	168	153
		200	1.61	483	386	322	276	242	215	193	176
		275	1.89	467	454	378	324	284	252	227	206
		350	2.13	639	511	426	365	320	284	256	232
95-9224	Gray	150	1.67	501	401	334	286	251	223	200	182
		200	1.93	579	463	386	331	290	257	232	211
		275	2.27	681	545	454	389	341	303	272	248
		350	2.56	768	614	512	439	384	341	307	279
95-9225	White	150	2.23	669	535	446	382	335	297	268	243
		200	2.58	774	619	516	442	387	344	310	281
		275	3.02	906	725	604	518	453	403	362	329
		350	3.41	1023	818	682	585	512	455	409	372
95-9188	Light Blue	150	2.79	837	670	558	478	419	372	335	304
		200	3.22	966	773	644	552	483	429	386	351
		275	3.78	1134	907	756	648	567	504	454	412
		350	4.28	1284	1027	856	734	642	571	514	467
95-9226	Light Green	150	4.18	1254	1003	836	717	627	557	502	456
		200	4.84	1452	1162	968	830	726	645	581	528
		275	5.67	1701	1361	1134	972	851	756	680	619
		350	6.40	1920	1536	1280	1097	960	853	768	698