

SDI Parts Catalog

- **SDI Cushman Mounted**
 - **Sprayers and**
 - **SDI Booms**
 - **SDI Controls**
 - **SDI Accessories**



Manufacturer of Quality Power Sprayers
P O Box 3107 • Visalia, CA. 93278-3107
Tel: (559) SDI-5555 • Fax: (559) SDI-5591
email: sales@sprayingdevices.com

Introduction and Table of Contents

SDI-Cushman Sprayers

This Parts Catalog is organized to make parts easier to find. Use the Table of Contents below to locate the particular item you need.

Also, each page is identified with a date. When ordering parts, it is helpful if you note the revision date of the page from which you are ordering.

We stock most items in this catalog and can furnish them within 48 hours of your request. Those parts we do not stock are available based on our lead time from our vendor.

For Parts Ordering and/or questions about this catalog, call SDI at (559)734-5555 from 7:30 AM to 4:30 PM Pacific Time. For your convenience, you may fax your parts orders to SDI at 559-734-5591 or email to sales@sprayingdevices.com.

Note: Minimum order amount is \$25.00 and there is a \$10.00 charge for all drop ship orders.

Table of Contents

General Information	3
Sprayers	6
Pumps	13
Spray Booms	15
Wheel Kits	31
Electric Lifts	33
Motorized Controls.....	37
Raven Controls	48
Raven Radar	53
Manual and Electric Hose Reels	54
Miscellaneous Accessories	58-66

Important Information Regarding

Your New Sprayer from

Spraying Devices, Inc.

**Jacobsen-Extron Models: 4119804, 2703540,
4119805, 2703541, 4119806, 2703542, 4119807
and 2703543.**

Please read the following information

BEFORE

Assembling and/or using your Sprayer

supplied by Spraying Devices, Inc.

Sprayer Installation Service Bulletin

for the following sprayers models:

**Jacobsen-Textron Models: 4119804, 2703540,
4119805, 2703541, 4119806, 2703542, 4119807
and 2703543.**

CAUTION!

**Remove the trailer hitch from the Turf
Truckster® frame prior to mounting the
sprayer. Failure to remove the hitch will
damage the sump area of the spray tank.**

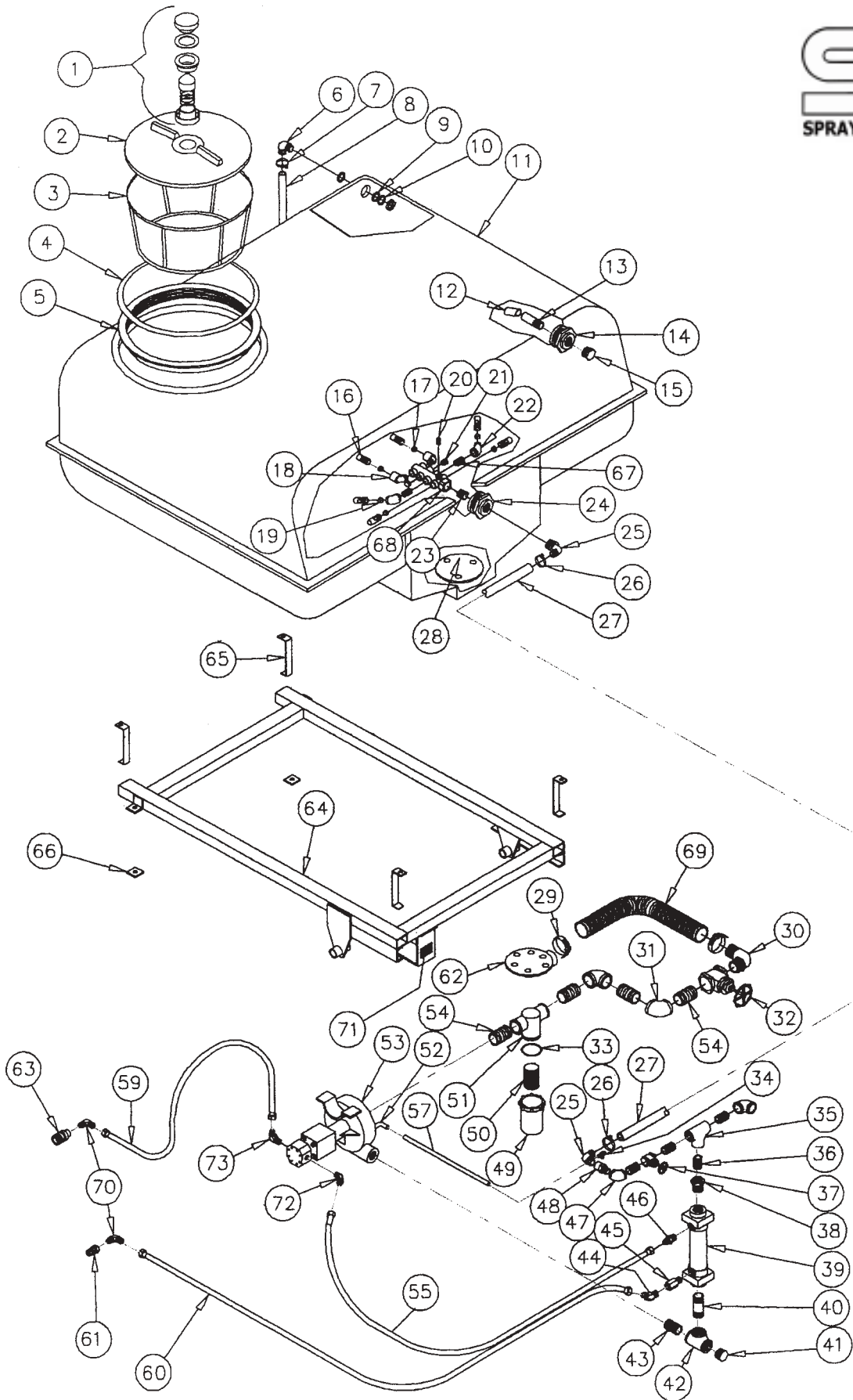
**Before installing this
sprayer, please read
the following:**

**Additional caution instructions for the
Jacobsen-Textron Sprayer - Models
4119804, 2703540,
4119806 and 3703542.**

**This sprayer is intended to run on a truck
that has the standard hydraulics ONLY!**

**DO NOT use on a truck with a
high-low hydraulic kit.
Damage to sprayer and/or
truck may occur.**

**UNAUTHORIZED application of sprayer
will void Sprayer Warranty.**



**SDI/Jacobsen Sprayer
 Models 4119804/4119806**

RevB185/0608jj

SDI-Jacobsen Sprayer Models 4119804/4119806

Item Number	Part Number	Description	Qty
	4119804	160 Gallon Sprayer, <i>Standard Hydraulics</i>	
	4119806	225 Gallon Sprayer, <i>Standard Hydraulics</i>	
1	15-056	Vent Assembly	1
2	15-053	16" Threaded Lid	1
3	16-203	Strainer Basket	1
4	15-055	C-Gasket for Threaded Lid	1
5	15-054	16" Threaded Rim	1
6	16-100	Hose Shank Elbow	2
7	24-104	Hose Clamp #4	2
8	16-922	Clear Tubing 3/8"ID, Per Inch	Specify
9	55-055	Rubber Washer 3/4"	4
10	55-052	Nylon Washer 3/4"	2
11	15-166OR	160 Gallon Tank, Jacobsen Orange	1
11	15-226OR	225 Gallon Tank, Jacobsen Orange	1
12	52-276	Elbow 1" x 45° SxS, PVC	1
13	53-204	Pipe Nipple 1 x 4" PVC, Cut in Half	1
14	16-117	Tank Fitting 1" DT, Nylon	1
15	53-886	Pipe Plug 1" Poly	1
16	16-050	Venturi Jet Agitator, Poly	6
17	64-581	Ceramic Spraying Tip DCER10	2
18	53-812	Street Elbow 1/2" PVC	2
19	64-587	Ceramic Spraying Tip DCER7	4
20	50-280SS	Pipe Plug 1/4" SST	1
21	53-884	Pipe Plug 1/2" Poly	2
22	50-413SS	Elbow 1/2" x 45° SST	2
23	53-909	Close Nipple 3/4" Poly	1
24	16-115	Tank Fitting 3/4" DT Nylon	1
25	52-112	Elbow 3/4 MPT x 3/4" HB	2
26	24-112	Hose Clamp #12	2
27	21-930	Hose 3/4" ID 200 PSI, Per Foot	Specify
28	11-101	Vortex Baffle	1
29	24-124	Hose Clamp #24	2
30	52-127	Elbow 1-1/4 MPT x 1-1/2" HB	1
31	50-711SS	Elbow 1-1/4" x 90° SST	2
32	60-205	Gate Valve 1-1/4"	1
33	57-116	Gasket for Strainer	1
34	49-108	Elbow Fitting 1/8 MPT x 5/32" Tube	1
35	50-520SS	Tee 3/4" SST	1
36	51-501SS	Close Nipple 3/4" SST	4
37	60-203	Gate Valve 3/4"	1
38	50-663SS	Bushing 1 MPT x 3/4" FPT SST	1
39	22-000	Oil Cooler	1
40	51-603SS	Pipe Nipple 1 x 3" SST	1
41	53-886	Pipe Plug 1" Poly	1

SDI-Jacobsen Sprayer Models 4119804/4119806

Item Number	Part Number	Description	Qty
42	50-620SS	Tee 1" SST	1
43	51-601SS	Close Nipple 1" SST	1
44	50-034	Fitting 1/2 MPT x 1/2" MJIC, 45°	1
45	50-022	Check Valve	1
46	50-027	Hydraulic Fitting 1/2 MJ x 1/2" MPT, Straight	1
47	50-511SS	Elbow 3/4" x 90° SST	2
48	56-2152	Adapter 3/4 MPT x 3/4 FPT with 1/8" Port	1
49	57-117S	Solid Bowl for Strainer	1
50	57-123	Screen for Strainer, 20 Mesh	1
51	57-121	Strainer Body 1-1/4"	1
52	56-510	Fitting 1/2 MPT x 5/32" Tube	1
53	19-9302ST/GM1	Pump	1
54	51-701SS	Close Nipple 1-1/4" SST	4
55	21-029	Hydraulic Hose Assembly 1/2 x 18"	1
57	49-532	Tubing 5/32" OD, Per Foot	Specify
58	50-030	Elbow 1/2 MPT x 1/2" MJIC, 90°	1
59	21-028	Hydraulic Hose Assembly 1/2 x 53"	1
60	21-037	Hydraulic Hose Assembly 1/2 x 65"	1
61	52-392	Hydraulic Nipple	1
62	17-131	Suction Flange	1
63	52-393	Hydraulic Body	1
64	10-226	Frame, 160 and 225 Gallon Model	1
65	11-598	Tank Straps, 160 Gallon	4
65	11-597	Tank Straps, 225 Gallon	4
66	11-596	Frame Hold Down Clip	2
67	53-901	Close Nipple 1/2" Poly	2
68	16-087	Manifold Agitation	1
69	21-933	Suction Hose 1-1/2" ID, Per Foot	Specify
70	50-029	Elbow 3/8 MPT x 1/2" MJIC 90°	2
71	70-357	SDI Serial Number and Model Number Decal	1
72	50-041	Fitting 1/2 MB x 1/2" MJIC 45°	1
73	50-040	Fitting 1/2 MB x 1/2" MJIC 90°	1
		<i>The following items are not illustrated:</i>	
	70-098	Turfmaster 160 Decal	2
	70-096	Turfmaster 225 Decal	2
	70-140	Cushman Stripe Decal, Pair	1
	70-238	Top Sight Gauge Decal, 160 Gallon	1
	70-050	Bottom Sight Gauge Decal, 160 Gallon	1
	70-240	Top Sight Gauge Decal, 225 Gallon	1
	70-241	Bottom Sight Gauge Decal, 225 Gallon	1
	70-090	Don't Turn Valve Handle Decal	1
	70-370	Serial Number Decal, Oil Cooler	1
	70-301	Caution Decal	1

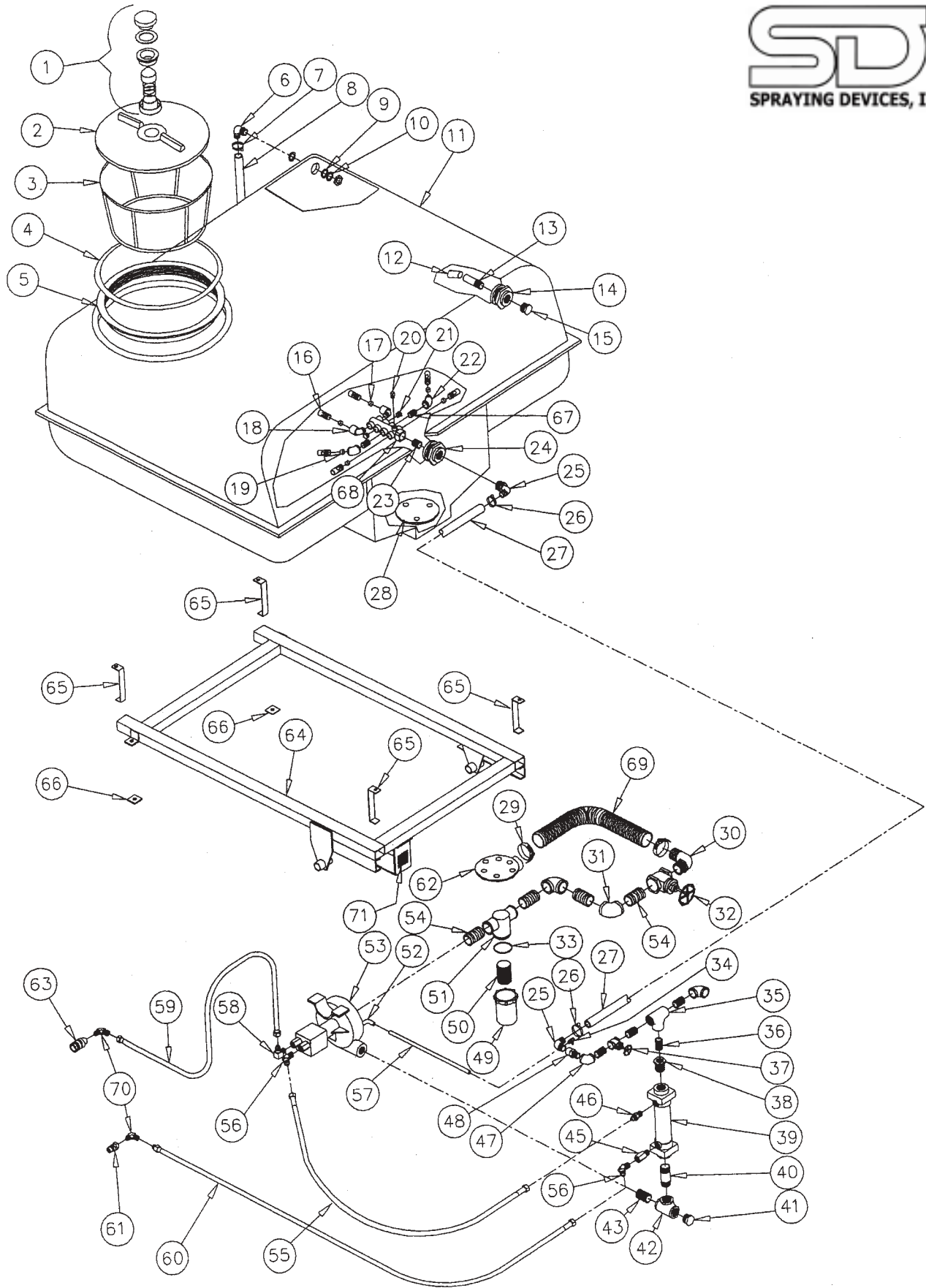
**Before installing this
sprayer, please read
the following:**

**Additional caution instructions for the
Jacobsen-Textron Sprayer - Models
4119805, 2703541,
4119807 and 3703543.**

**This sprayer is intended to run on a truck
that has the high-low hydraulic kit ONLY!**

**The truck must be operated in the low
position (5 gpm) ONLY for proper performance.**

**Under no circumstances, should the sprayer
be used in the high (9 gpm) mode on a
high/low sprayer. Failure to use in the
proper setting will cause damage and
void warranty.**



**SDI/Jacobsen Sprayer
Models 4119805 and 4119807**

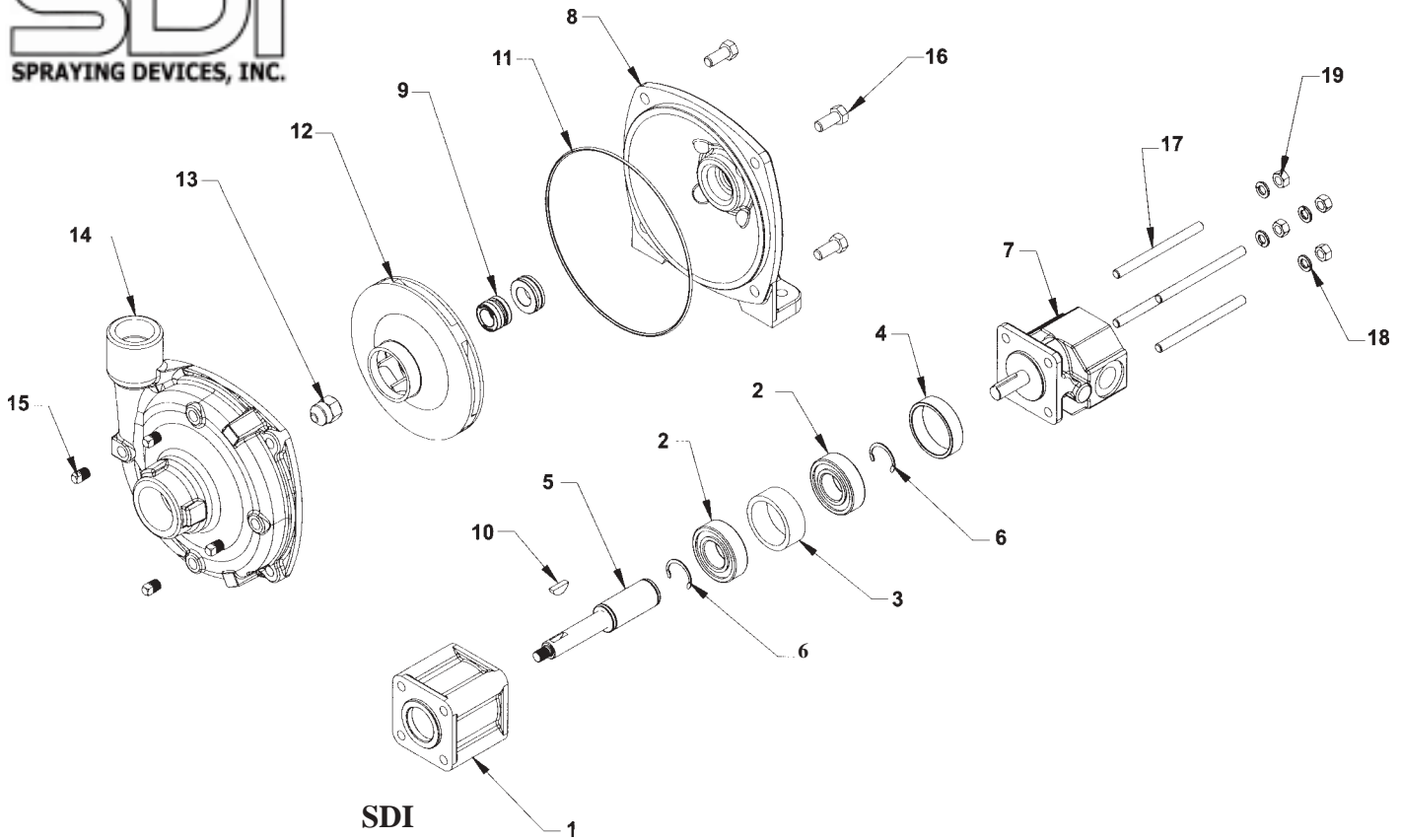
P1184/0308jj

SDI-Jacobsen Sprayer Model 4119805/4119807

Item Number	Part Number	Description	Qty
	4119805	160 Gallon Sprayer, High-Low Hydraulics	
	4119807	225 Gallon Sprayer, High-Low Hydraulics	
1	15-056	Vent Assembly 16" Lid	1
2	15-053	Threaded Lid Only 16"	1
3	16-203	Strainer Basket	1
4	15-055	C-Gasket for 16" Threaded Lid	1
5	15-054	Threaded Rim for 16" Lid	1
6	16-100	Hose Shank Elbow	2
7	24-104	Hose Clamp #4	2
8	16-922	Clear Tubing 3/8" ID, Per Inch	Specify
9	55-050	Rubber Washer 3/4"	4
10	55-052	Nylon Washer 3/4"	2
11	15-166OR	Tank, 160 Gallon	1
11	15-226OR	Tank, 225 Gallon	1
12	52-276	Elbow 1" x 45° SxS, PVC	1
13	53-204	Pipe Nipple 1 x 4" PVC (cut in half)	1
14	16-117	Tank Fitting 1" DT Nylon	1
15	53-886	Pipe Plug 1" Poly	1
16	16-050	Venturi Jet Agitator Poly	6
17	64-581	Ceramic Spraying Tip DCER10	2
18	53-812	Street Elbow 1/2" PVC	2
19	64-587	Ceramic Spraying Tip DCER 7	4
20	50-280SS	Pipe Plug 1/4" SST	1
21	53-884	Pipe Plug 1/2" Poly	2
22	50-413SS	Elbow 1/2 x 45° SST	2
23	53-909	Close Nipple 3/4" Poly	1
24	16-115	Tank Fitting 3/4" DT Nylon	1
25	52-112	Elbow 3/4 MPT x 3/4" HB	2
26	24-112	Hose Clamp #12	2
27	21-930	Hose 3/4" ID 200 PSI Per Foot	Specify
28	11-101	Vortex Baffle	1
29	24-124	Hose Clamp #24	2
30	52-127	Elbow 1-1/4 MPT x 1-1/2" HB	1
31	50-711SS	Elbow 1-1/4" x 90° SST	2
32	60-205	Gate Valve 1-1/4"	1
33	57-116	Gasket for Strainer	1
34	49-108	Elbow Fitting 1/8 MPT x 5/32" Tube	1
35	50-520SS	Tee 3/4" SST	1
36	51-501SS	Close Nipple 3/4" SST	4
37	60-203	Gate Valve 3/4"	1
38	50-663SS	Bushing 1 MPT x 3/4" FPT SST	1
39	22-000	Oil Cooler	1
40	51-603SS	Pipe Nipple 1 x 3" SST	1
41	53-886	Pipe Plug 1" Poly	1

SDI-Jacobsen Sprayer Model 4119805/4119807

Item Number	Part Number	Description	Qty
42	50-620SS	Tee 1" SST	1
43	51-601SS	Close Nipple 1" SST	1
45	50-022	Check Valve	1
46	50-027	Hydraulic Fitting 1/2 MJIC x 1/2" MPT	1
47	50-511SS	Elbow 3/4" x 90° SST	2
48	56-2152	Adapter 3/4 MPT x 3/4 FPT with 1/8" Port	1
49	57-117S	Solid Bowl for Strainer	1
50	57-123	Screen for Strainer 20 Mesh	1
51	57-121	Strainer Body 1-1/4"	1
52	56-510	Fitting 1/2 MPT x 5/32" Tube	1
53	19-9302SHM2C	Pump <i>This pump must be used on the low-side of the truck's hydraulic system. High side can be used, but will be less efficient.</i>	1
54	51-701SS	Close Nipple 1-1/4" SST	4
55	21-029	Hydraulic Hose Assembly 1/2 x 18"	1
56	50-034	Elbow 1/2 MPT x 1/2" MJIC 45°	2
57	49-532	Tubing 5/32" OD, Per Foot	Specify
58	50-030	Elbow 1/2 MPT x 1/2" MJIC 90°	1
59	21-028	Hydraulic Hose Assembly 1/2 x 53"	1
60	21-037	Hydraulic Hose Assembly 1/2 x 65"	1
61	52-392	Hydraulic Nipple	1
62	17-131	Suction Flange	1
63	52-393	Hydraulic Body	1
64	10-226	160 and 225 Gallon Frame	1
65	11-598	160 Gallon Tank Straps	4
65	11-597	225 Gallon Tank Straps	4
66	11-596	Frame Hold Down Clip	2
67	53-901	Close Nipple 1/2" Poly	2
68	16-087	Manifold Agitation	1
69	21-933	Suction Hose 1-1/2" ID, Per Foot	Specify
70	50-029	Elbow 3/8 MPT x 1/2" MJIC	2
71	70-357	SDI Model and Serial Number Decal	1
		<i>The following items are not illustrated:</i>	
	70-098	Turfmaster 160 Decal	2
	70-096	Turfmaster 225 Decal	2
	70-140	Cushman Stripe Decal, Pair	1
	70-238	Top Sight Gauge Decal 160 Gallon	1
	70-237	Bottom Sight Gauge Decal 160 Gallon	1
	70-240	Top Sight Gauge Decal 225 Gallon	1
	70-241	Bottom Sight Gauge Decal 225 Gallon	1
	70-090	Don't Turn Valve Handle Decal	1
	70-370	Oil Cooler Serial Number Decal	1
	70-301	Caution Decal	1



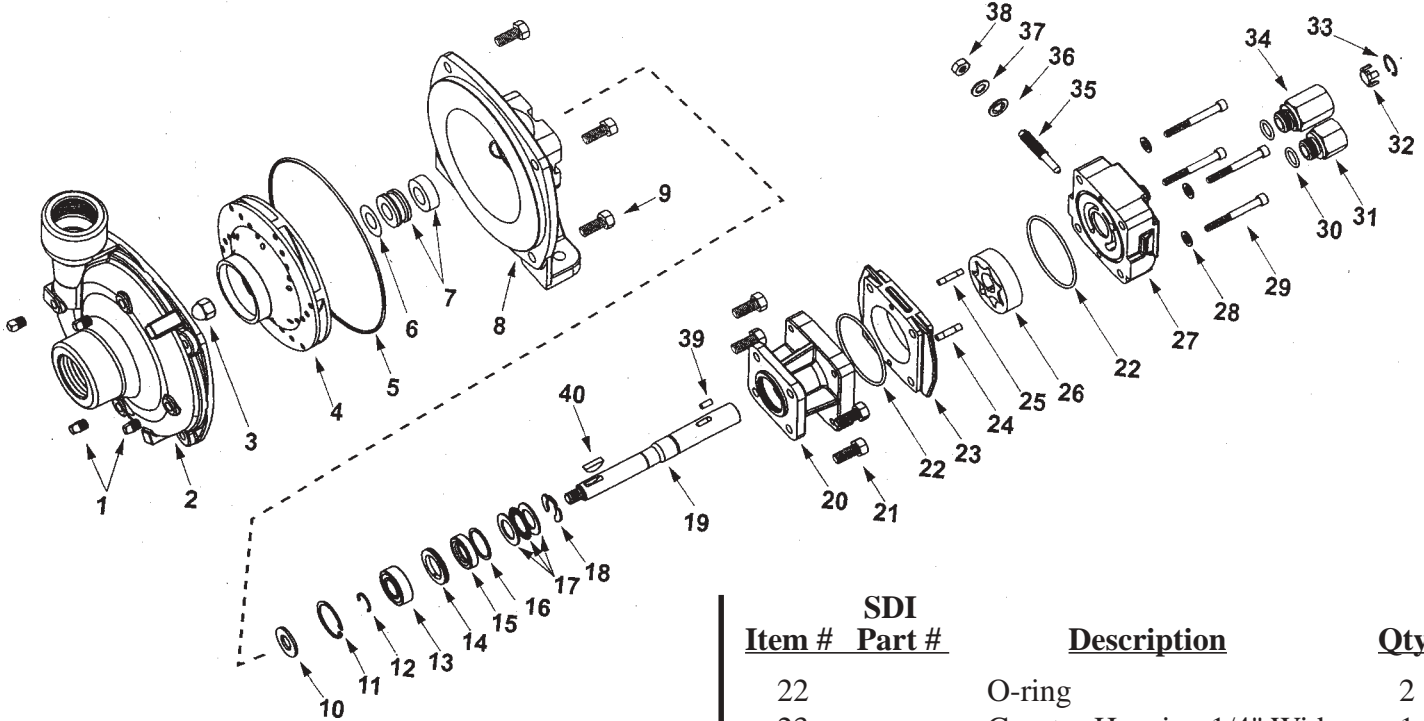
<u>Item #</u>	<u>SDI Part #</u>	<u>Description</u>	<u>Quantity</u>
1		Bearing Housing	1
2	77-036	Bearing	2
3	77-103	Bearing Spacer	1
4		Motor Pilot Ring	1
5	77-120	Shaft Assembly	1
6	77-104	Retainer Ring	2
7	77-101*	Hydraulic Gear Motor	1
8		Mounting Flange	1
9	77-046	Mechanical Seal Kit	1
10	77-105	Key	1
11	77-056	O-Ring	1
12	77-088	Impeller	1
13	77-106	Acorn Nut	1
14		Pump Casing	1
15	77-011	Pipe Plug	4
16	77-008	Hex Had Cap Screw	4
17		Threaded Stud	4
18		Lock Washer	4
19		Nut	4

*77-101 Repair Kit Part Number 77-111

19-9302ST/GMI Pump

NOTE: Contact SDI for item numbers not listed with the SDI part number.

0510jh



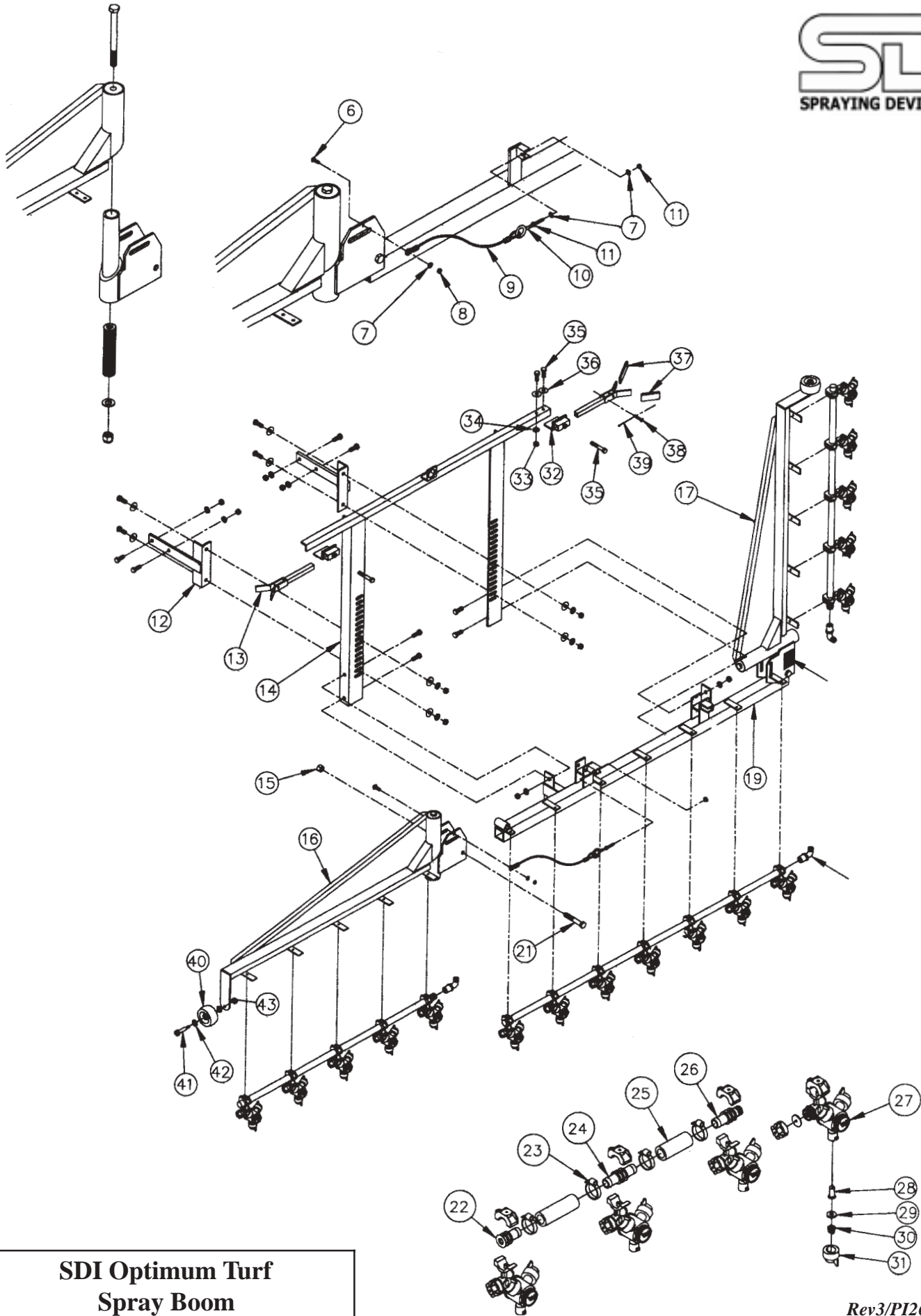
<u>SDI</u> <u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	77-011	Drain/Vent Plug	4
2		Pump Casing	1
3	77-010	Impeller Nut	1
4	77-088	Impeller	1
5	77-056	O-ring	1
7	77-046	Mechanical Seal Kit	1
8		Mounting Flange	1
9	77-008	Hex Head Cap Screw	4
10	77-058	Slinger Ring	1
11	77-065	Retaining Ring	1
12		Snap Ring	1
13	77-061	Ball Bearing	1
14	77-096	Spacer	1
15	77-098	Shaft Seal	1
16	77-097	Seal Spacer	1
17	77-099	Thrust Bearing Assembly	1
18		Snap Ring	1
19		Shaft 6-3/4" Long	1
20		Motor Body	1
21		Hex Head Cap Screw	4

<u>SDI</u> <u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
22		O-ring	2
23		Gerotor Housing 1/4" Wide	1
24		Dowel Pin	1
25		Dowel Pin	1
26		Gerotor	1
27		Motor End Plate (Includes main bearing)	1
28		Washer	4
29		Cap Screw	4
30		O-ring	2
31		Pressure Port Adapter	1
32		Poppet	1
33		Retaining Ring	1
34		Tank Port Adapter	1
35		Bypass Adjusting Screw	1
36		Gasket	1
37		Washer	1
38		Lock Nut	1
39		Roll Pin	1
40	77-029	Woodruff Key	1
N/A	77-047	Repair Kit, Includes Items 5,6, and 7	
N/A	77-110	Parts Kit, Includes Items 13, 15, 36, 37, 22, and 30	
N/A	77-100	Hydraulic Motor	

19-9302SHM2C Pump

NOTE: Contact SDI for item numbers not listed with the SDI part number.

134/0507jh



**SDI Optimum Turf
 Spray Boom**

Rev3/PI264/10/09jj

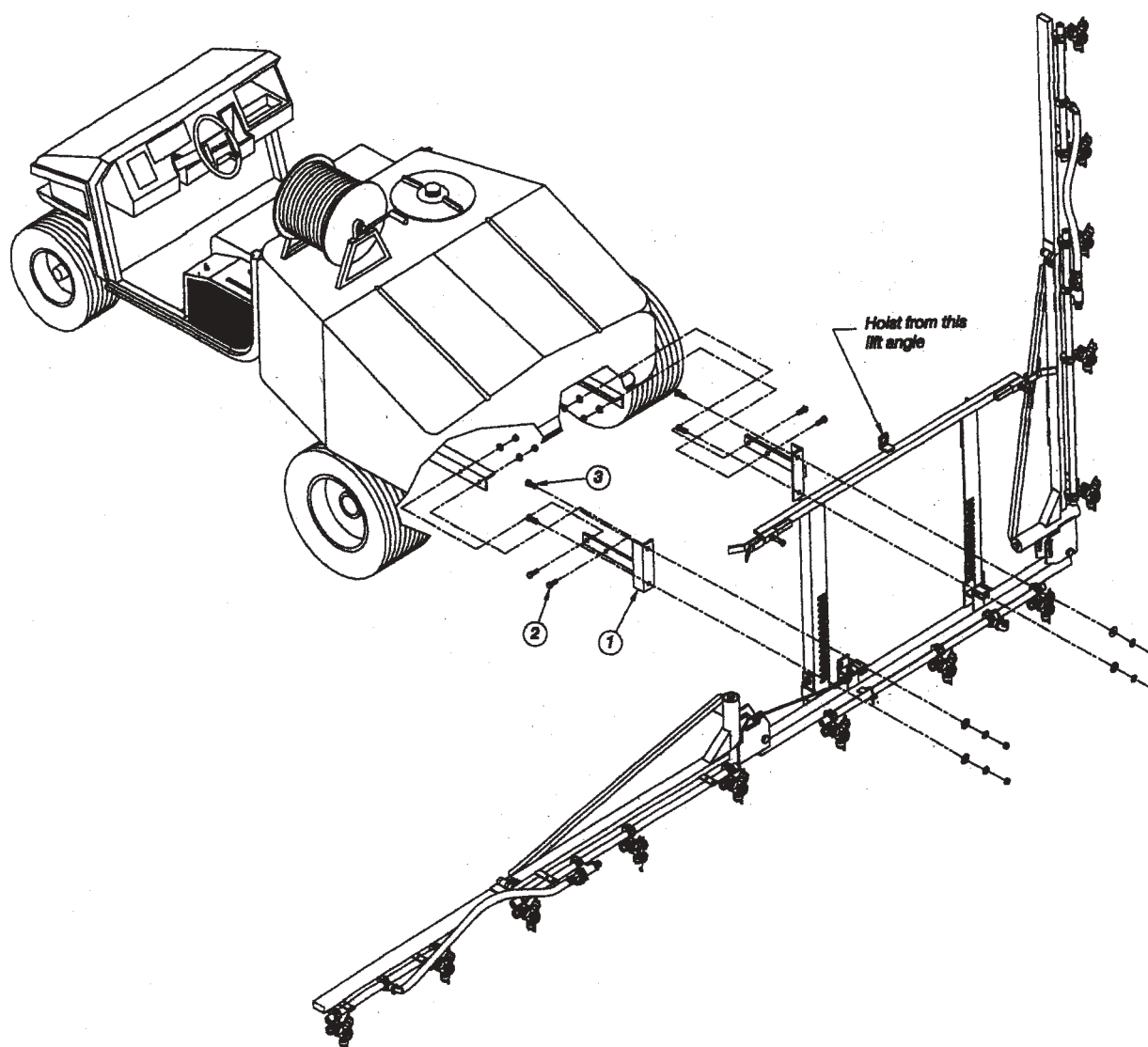
SDI Optimum Turf Spray Boom

Item Number	Part Number	Description	Qty
	4132048	Optimum Turf Boom 15' 17 Nozzles 10" Spacing	
1	35-217	Hex Bolt 5/8 x 7"	2
2	11-314	Boom Pivot Assembly	2
3	45-182	Boom Pivot Spring	2
4	42-105	Flatwasher 5/8"	2
5	41-115	Lock Nut 5/8"	2
6	45-565	Carriage Bolt 3/8 x 1" SST	2
7	42-503	Flatwasher 3/8" SST	6
8	41-513	Lock Nut 3/8" SST	2
9	69-301	Swag Cable Assembly	2
10	69-284	Eye Bolt 3/8 x 5"	2
11	41-503	Hex Nut 3/8" SST	4
12	11-768	Boom to Truck Mount	2
13	11-781	Boom Arm Rest	2
14	11-761	Upright and Cross Member Assembly	1
15	41-115	Lock Nut 5/8"	2
16	11-798G	Left Wing Arm	1
17	11-797G	Right Wing Arm	1
18	70-357	SDI Serial Number Decal	1
19	11-799	Center Boom Section	1
20	53-092	Elbow Adapter 1/2 FPT x 3/4" HB	3
21	35-109	Hex Bolt 5/8 x 3-3/4"	2
22	64-437	Hose Shank 3/4" HB x Blank	3
23	24-110	Hose Clamp #10	28
24	64-435	Hose Shank 3/4 HB x 3/4" HB	11
25	21-930	Hose 3/4" ID, 200 PSI, Per Foot	Specify
26	64-436	Hose Shank 3/4 HB x 1/2" MPT	3
27	64-400	Triple Nozzle Body	17
28	64-403	50 Mesh Screen	17
29	64-404	Washer	17
30	64-648	Test Tip TP11008VP	17
31	64-406	Black Cap	17
32	11-784	Boom Fork Adjustment Bracket	2
33	41-502	Hex Nut 5/16" SST	4
34	43-502	Lockwasher 5/16" SST	4
35	31-503	Bolt 5/16 x 1" SST	6
36	42-502	Flatwasher 5/16"	4
37	69-025	Boom Fork Flat Grip	2
38	80-105	Clevis Pin	2
39	48-301	Hair Pin	1
40	80-028	Deck Wheel	2
41	48-048	Shoulder Bolt 1/2 x 2-1/2"	2
42	42-107	Flatwasher 1/2"	4
43	41-513	Lock Nut 3/8" SST	2

Mounting Instructions:

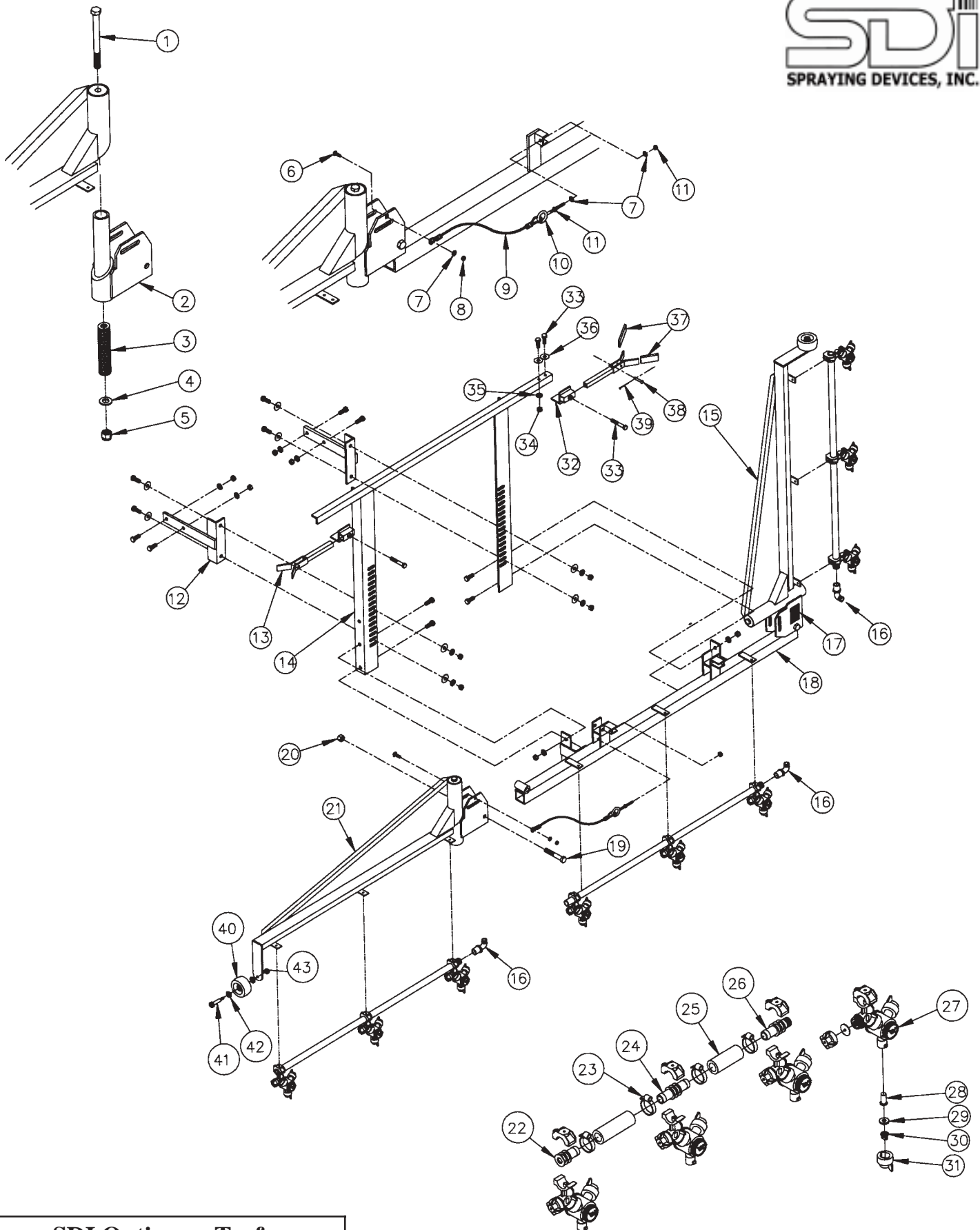


1. Mount Boom Mount Brackets, Item #12, Step 1, to sprayer frame using 34-107 hex bolts 1/2 x 2" Hex Bolts, Step 2, with hex nuts and lock washers. (Boom brackets can be mounted inside or outside of sprayer frame with angle facing in or out, depending upon the model of the sprayer).
2. Using a hoist, lift boom assembly to desired nozzle height. Bolt to closest aligning slots, depending if using single or triple nozzle bodies or if you have a 10" nozzle spacing boom, Step 3, using #34-104 1/2 x 1-1/4" hex bolts with hex nuts, flatwashers and lock washers.



**SDI Optimum Turf
Spray Boom Mounting**

Instr/Rev3/PI264/10/09jj



**SDI Optimum Turf
 Spray Boom**

Rev3/PI266/10/09jj

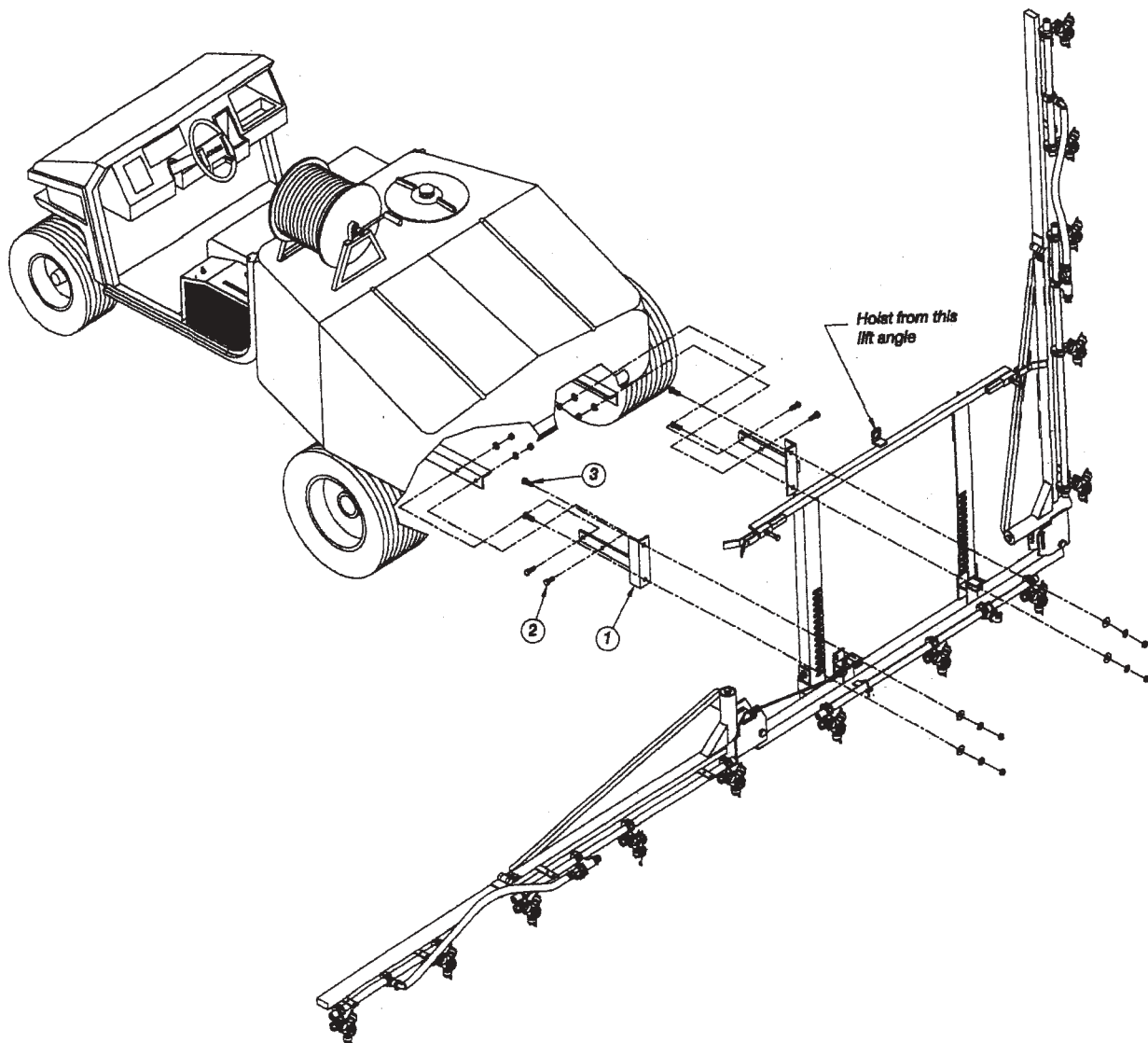
SDI Optimum Turf Spray Boom

Item Number	Part Number	Description	Qty
	4132046	Optimum Turf Boom 15' 9 Nozzles 10" Spacing	
1	35-217	Hex Bolt 5/8 x 7"	2
2	11-314	Boom Pivot Assembly	2
3	45-182	Boom Pivot Spring	2
4	42-105	Flatwasher 5/8"	2
5	41-115	Lock Nut 5/8"	2
6	45-565	Carriage Bolt 3/8 x 1" SST	2
7	42-503	Flatwasher 3/8" SST	6
8	41-513	Lock Nut 3/8" SST	2
9	69-301	Swag Cable Assembly	2
10	69-284	Eye Bolt 3/8 x 5"	2
11	41-503	Hex Nut 3/8" SST	4
12	11-768	Boom to Truck Mount	2
13	11-781	Boom Arm Rest	2
14	11-761	Upright and Cross Member Assembly	1
15	11-788G	Left Wing Arm	1
16	53-092	Elbow Adapter 1/2 FPT x 3/4" HB	3
17	70-357	SDI Serial Number Decal	1
18	11-792	Center Boom Section	1
19	35-109	Hex Bolt 5/8 x 3-3/4"	2
20	41-115	Lock Nut 5/8"	2
21	11-789G	Right Wing Arm	1
22	64-437	Hose Shank 3/4" HB x Blank	3
23	24-110	Hose Clamp #10	28
24	64-435	Hose Shank 3/4 HB x 3/4" HB	11
25	21-930	Hose 3/4" ID, 200 PSI, Per Foot	Specify
26	64-436	Hose Shank 3/4 HB x 1/2" MPT	2
27	64-400	Triple Nozzle Body	9
28	64-403	50 Mesh Screen	9
29	64-404	Washer	9
30	64-648	Test Tip TP11008VP	9
31	64-406	Black Cap	9
32	11-784	Boom Fork Adjustment Bracket	2
33	31-503	Bolt 5/16 x 1" SST	6
34	41-502	Hex Nut 5/16" SST	4
35	43-502	Lockwasher 5/16" SST	4
36	42-502	Flatwasher 5/16"	4
37	69-025	Boom Fork Flat Grip	2
38	80-105	Clevis Pin	2
39	48-301	Hair Pin	1
40	80-028	Deck Wheel	2
41	48-048	Shoulder Bolt 1/2 x 2-1/2"	2
42	42-107	Flatwasher 1/2"	4
43	41-513	Lock Nut 3/8" SST	2

Mounting Instructions:

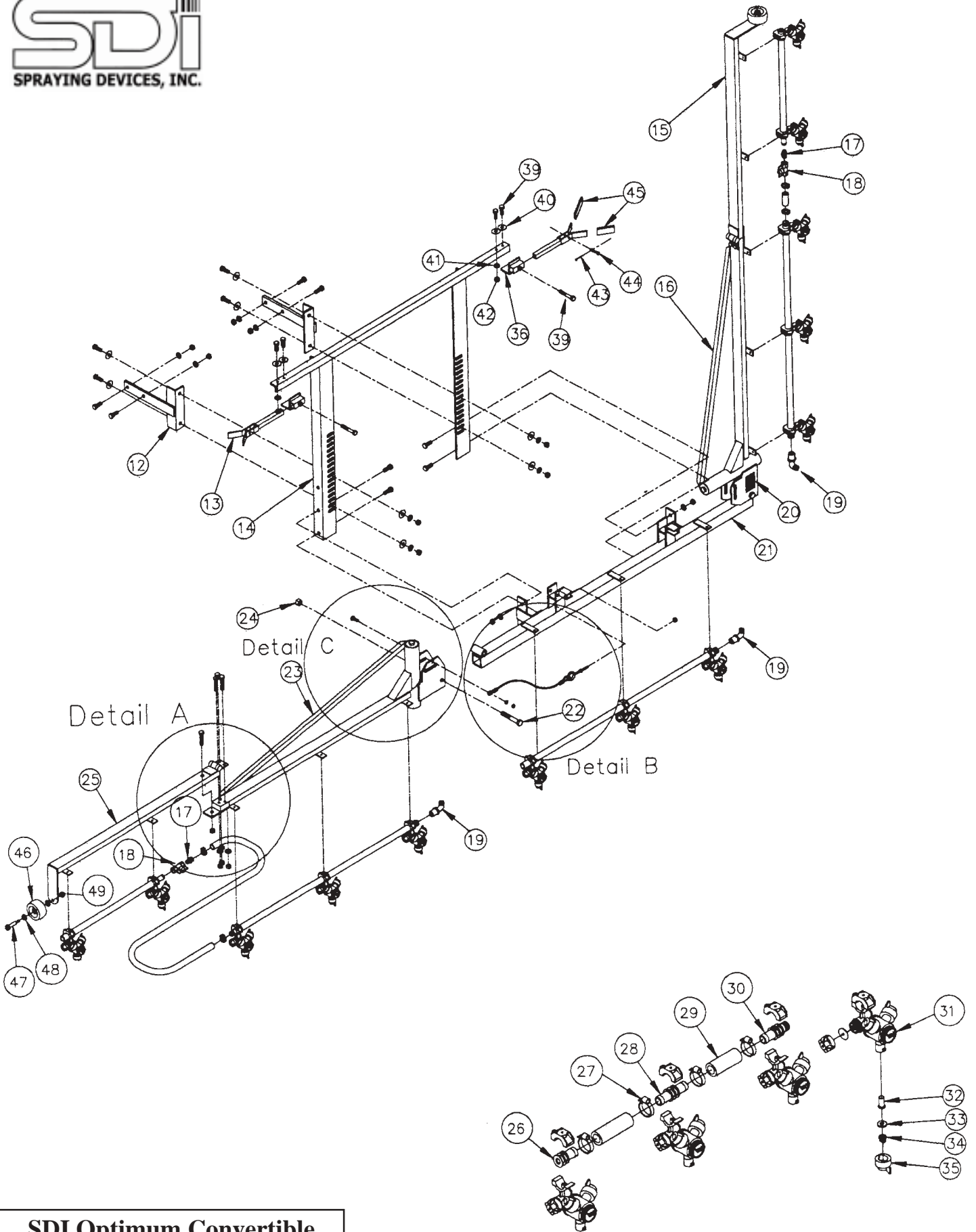


1. Mount Boom Mount Brackets, Item #12, Step 1, to sprayer frame using 34-107 hex bolts 1/2 x 2" Hex Bolts, Step 2, with hex nuts and lock washers. (Boom brackets can be mounted inside or outside of sprayer frame with angle facing in or out, depending upon the model of the sprayer).
2. Using a hoist, lift boom assembly to desired nozzle height. Bolt to closest aligning slots, depending if using single or triple nozzle bodies or if you have a 10" nozzle spacing boom, Step 3, using #34-104 1/2 x 1-1/4" hex bolts with hex nuts, flatwashers and lock washers.



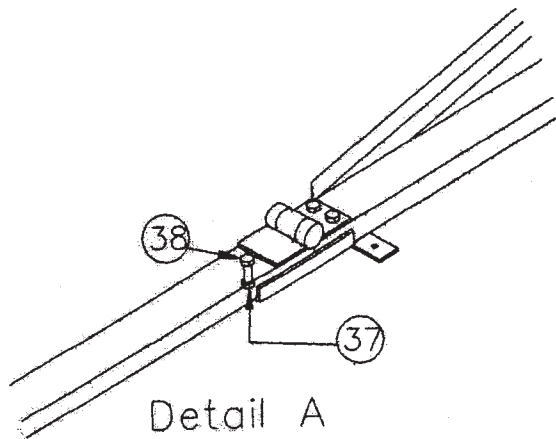
**SDI Optimum Turf
Spray Boom Mounting**

Instr/Rev3/PI264/10/09jj



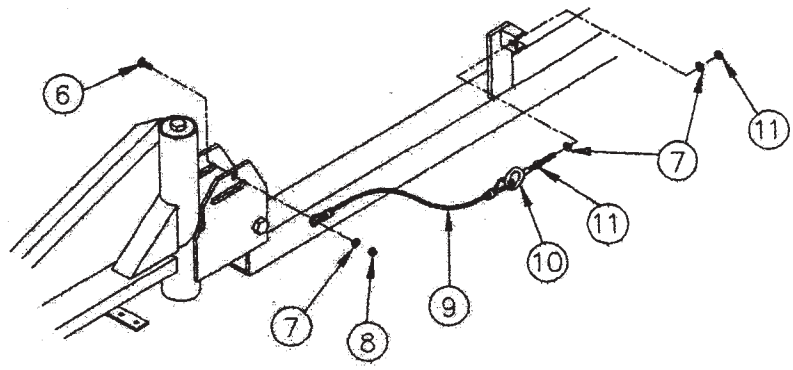
**SDI Optimum Convertible
 Spray Boom**

Rev4/PI265/10/09jj

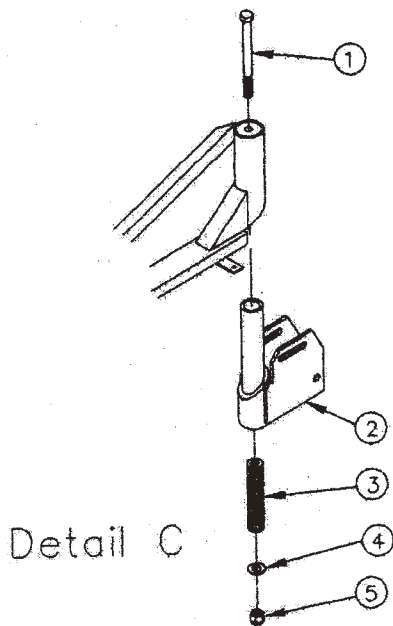


Detail "A"

• **NOTE:** When outer wings are folded out on the Convertible Spray Boom, Items #17 and #38 **must be used**. Failure to follow these instructions will void warranty.



Detail B



Detail C

**SDI Optimum Convertible
 Spray Boom 4132044**

Rev2/PI265/10/09jj

SDI Optimum Convertible Turf Spray Boom

Item Number	Part Number	Description	Qty
	4132044	Optimum Convertible Turf Spray Boom, 13 Nozzles, 20" Spacing	
1	35-217	Hex Bolt 5/8 x 7"	2
2	11-314	Boom Pivot Assembly	2
3	45-182	Boom Pivot Spring	2
4	42-105	Flatwasher 5/8"	2
5	41-115	Lock Nut 5/8"	2
6	45-565	Carriage Bolt 3/8 x 1" SST	2
7	42-503	Flatwasher 3/8" SST	6
8	41-513	Lock Nut 3/8" SST	2
9	69-301	Swag Cable Assembly	2
10	69-284	Eye Bolt 3/8 x 5"	2
11	41-503	Hex Nut 3/8" SST	4
12	11-768	Boom Mount to Truck	2
13	11-781	Boom Fork	2
14	11-761	Upright Assembly Cross Member	1
15	11-796G	Right Outer Wing Section	1
16	11-794	Right Inner Wing Section	1
17	53-093	Adapter 1/2 MPT x 3/4" HB	2
18	60-223	Ball Valve Butterfly Handle 1/2"	2
19	53-092	Elbow Adapter 1/2 FPT x 3/4" HB	3
20	70-357	Serial Number Decal	1
21	11-792	Center Section	1
22	35-109	Hex Bolt 5/8 x 3-3/4"	2
23	11-793	Left Inner Wing Section	1
24	41-115	Lock Nut 5/8"	2
25	11-795G	Left Outer Wing Section	1
26	64-437	Hose Shank 3/4" HB x Blank	3
27	24-110	Hose Clamp #10	20
28	64-435	Hose Shank 3/4 HB x 3/4" HB	5
29	21-930	Hose 3/4" ID 200 PSI, Per Foot	Specify
30	64-436	Hose Shank 3/4 HB x 1/2" MPT	5
31	64-400	Triple Nozzle Body	13
32	64-403	50 Mesh Strainer, Nylon	13
33	64-404	Rubber Washer	13
34	64-648	Test Tip TP11008VP	13
35	64-406	Black Cap	13
36	11-784	Boom Fork Adjusting Bracket	2
•37	41-512	Lock Nut 5/16" SST	1
•38	31-507	Hex Bolt 5/16 x 1" SST	1
<p>•When outer wings are folded out on the convertible boom, Items #37 and #38 <u>must be used</u>. Failure to do so will void warranty.</p>			

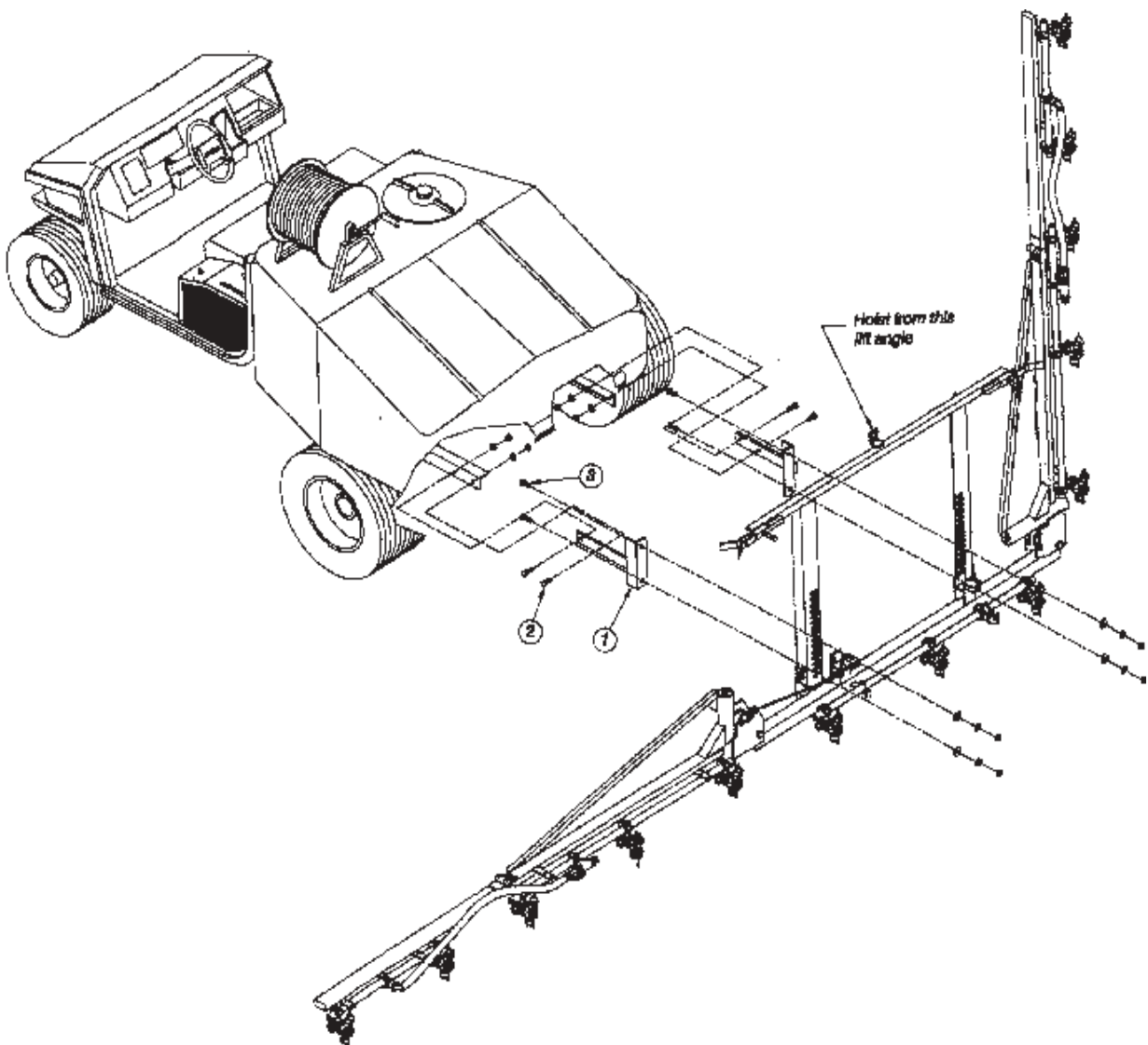
SDI Optimum Convertible Turf Spray Boom

Item Number	Part Number	Description	Qty
39	31-503	Bolt 5/16 x 1"	6
40	42-502	Flatwasher 5/16"	4
41	43-503	Lockwasher 5/16"	4
42	41-502	Hex Nut 5/16"	4
43	48-301	Hair Pin	2
44	80-105	Clevis Pin	2
45	69-025	Boom Fork Flat Grip	4
46	80-028	Deck Wheel	2
47	48-048	Shoulder Bolt 1/2 x 2-1/2"	2
48	42-104	Flatwasher	4
49	41-513	Lock Nut 3/8" SST	2

Mounting Instructions:

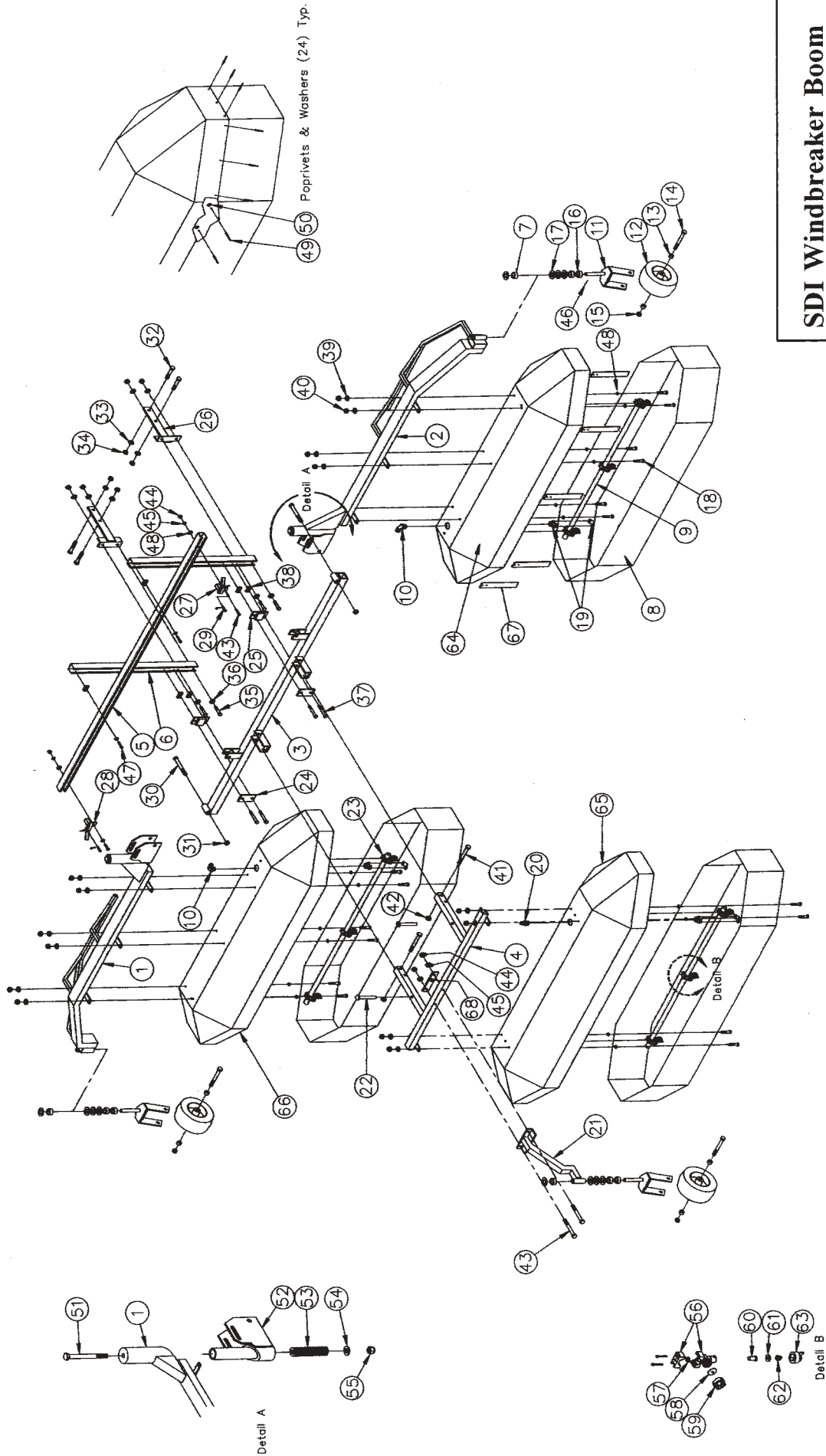


1. Mount Boom Mount Brackets, Item #12, Step 1, to sprayer frame using 34-107 hex bolts 1/2 x 2" Hex Bolts, Step 2, with hex nuts and lock washers. (Boom brackets can be mounted inside or outside of sprayer frame with angle facing in or out, depending upon the model of the sprayer).
2. Using a hoist, lift boom assembly to desired nozzle height. Bolt to closest aligning slots, depending if using single or triple nozzle bodies or if you have a 10" nozzle spacing boom, Step 3, using #34-104 1/2 x 1-1/4" hex bolts with hex nuts, flatwashers and lock washers.

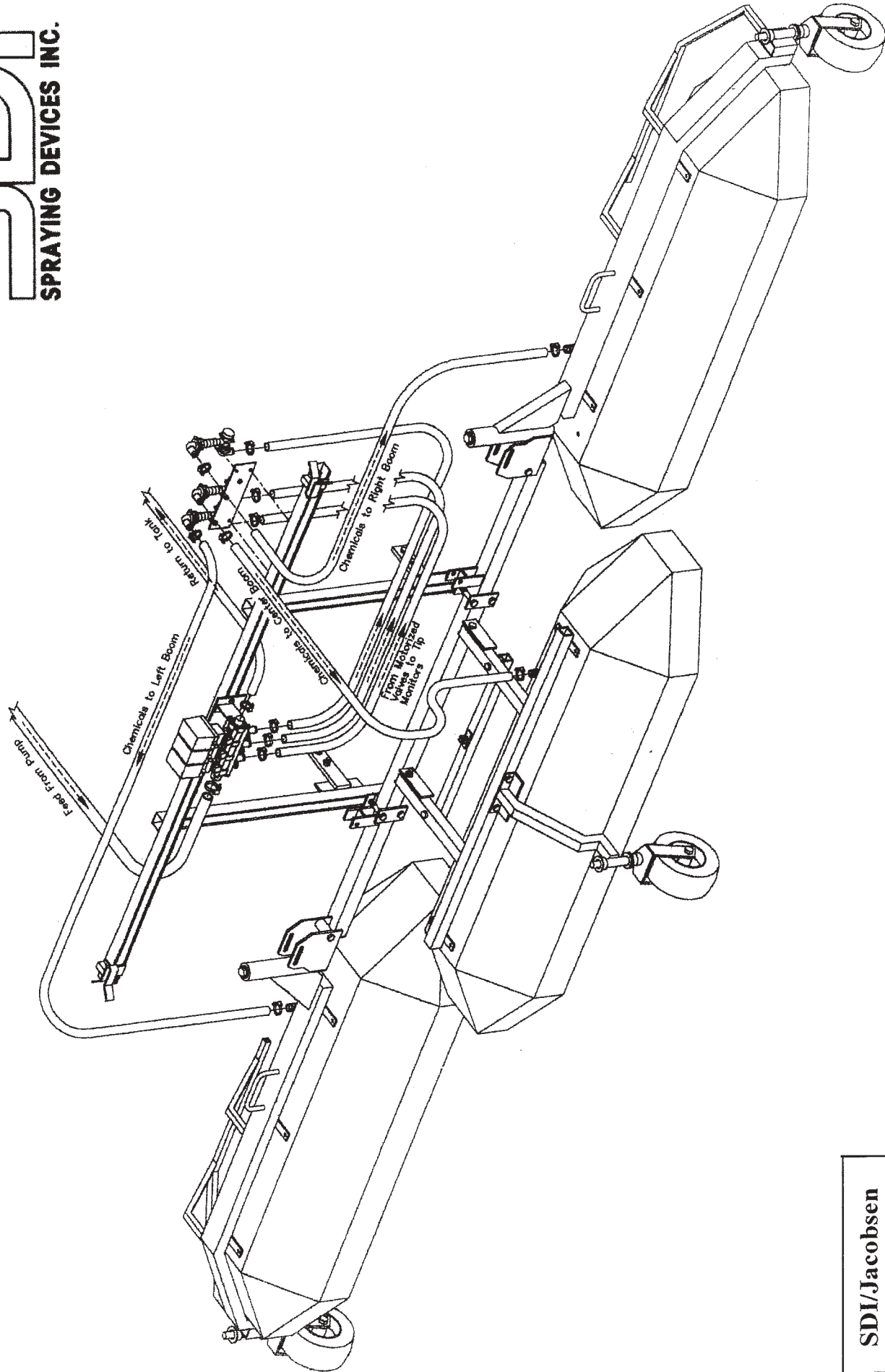


**SDI Optimum Turf
Spray Boom Mounting**

Instr/Rev3/PI264/10/09jj



SDI Windbreaker Boom
Model No. 2702229



SDI/Jacobsen
2702231

SDI "Windbreaker 2000" Shielded Spray Boom

Item Number	Part Number	Description	Qty
	2702229	Windbreaker Boom	
1	11-573	Left Wing Section	1
2	11-572	Right Wing Section	1
3	11-570	Main Center Section	1
4	11-571	Center Section	1
5	11-213-80	80" Cross Member	1
6	11-212-40	Boom Upright Channel 40" Long	2
7	11-723	Spacer Ring 1/2"	3
8	64-035	10" Wide Vinyl Black, 14'	3
0	51-467	Boom Pipe 43"/20" Spacing SST	3
10	53-092	Elbow 1/2 FPT x 3/4" HB 90°	2
11	11-579	Wheel Yoke Assembly	3
12	80-026	Wheel	3
13	11-726	Spacer Axle	6
14	35-121	Hex Bolt 5/8 x 5-1/2" NC	3
15	41-115	Lock Nut 5/8" NC	3
16	11-724	Spacer Ring 3/4"	7
17	42-108SS	Flatwasher 3/4"	6
18	31-504	Hex Bolt 5/16 x 1-1/4" SST	16
19	52-418	Pipe Saddle 1/2" MPT Poly	3
20	52-110	Adapter 1/2 FPT x 3/4" HB	1
21	11-574	Center Wheel Bracket	1
22	69-050	Ball Snap Clevis Pin 1/2"	2
23	64-397	Spray Tip Assembly	9
24	11-311	Center Section Bracket	2
25	11-278	Center Section Clamp	2
26	11-577	Bracket Mount	2
27	11-575R	Right Bracket Boom Rest	1
28	11-575L	Left Bracket Boom Rest	1
29	80-105	Locking Pin	2
30	35-110	Hex Bolt 5/8 NC x 4" Plated	2
31	41-115	Lock Nut 5/8" NC	2
32	34-105	Hex Bolt 1/2 x 1-1/2" Plated	4
33	43-104	Lockwasher 1/2" Plated	8
34	41-104	Hex Nut 1/2" Plated	8
35	34-104	Hex Bolt 1/2 x 1-1/4" Plated	4
36	42-104	Flatwasher 1/2" Plated	8
37	34-114	Hex Bolt 1/2 x 3-3/4"	4
38	41-110	Channel Nut 1/2"	6
39	43-502	Lockwasher 5/16" SST	16
40	41-502	Hex Nut 5/16" SST	16
41	34-111	Hex Bolt 1/2 x 3"	2
42	41-114	Lock Nut 1/2"	2
43	32-509	Hex Bolt 3/8 x 2-1/2" SST	4

SDI "Windbreaker 2000" Shielded Spray Boom

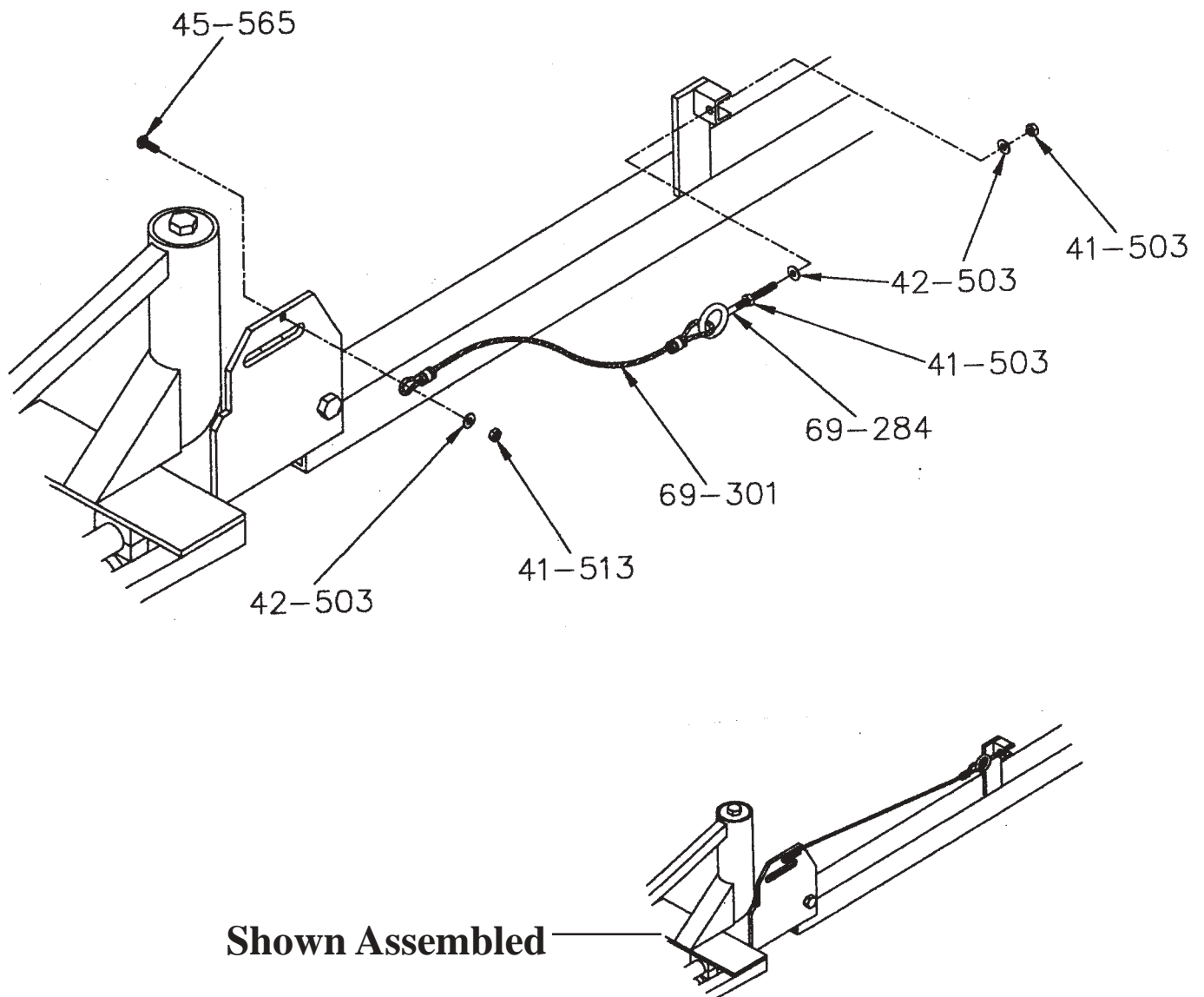
Item Number	Part Number	Description	Qty
44	41-503	Hex Nut 3/8" SST	4
45	43-503	Lockwasher 3/8" SST	4
46	48-104	Cotter Pin 3/32 x 1-1/4"	3
47	32-102SS	Hex Bolt 3/8 x 3/4" SST	2
48	42-503	Flatwasher 3/8" SST	10
49	45-104	Pop Rivet 1/8" Medium	69
50	42-099	Flatwasher 1/8"	84
51	35-217	Bolt 5/8 x 7"	2
52	11-566	Boom Pivot Assembly	2
53	45-183	Spring	2
54	42-105	Flatwasher 5/8"	2
55	41-115	Lock Nut 5/8"	2
56	64-411	Split Eyelet Check Valve	9
57	64-416	Washer	9
58	64-414	Diaphragm	9
59	64-415	Check Valve	9
60	64-403	Strainer Screen	9
61	64-404	Washer	9
62	64-643	Spray Tip TP8003VP Polymer	9
63	64-406	Black Cap	9
74	*15-703R	Right Shield	1
75	*15-702C	Center Shield	1
66	*15-701L	Left Shield	1
67	64-038	Skirt Stiffeners (5 per shield)	15
68	11-574/1	Support Bracket for 11-574	1
		<i>The following part is not illustrated:</i>	
	11-569	Forward Storage Arm - for use only without actuators - for storage only. Each piece is 15" long.	
		*NOTE: 15-703R, 15-702C and 15-701L are sold with the vinyl skirt, stiffeners and hardware and are assembled complete prior to shipping.	

Installing SDI's Swag Cable Assembly Part No. 69-301:



Insert carriage bolt, #45-565, through back side of hinge plate as shown. Slip crimped end of cable over threaded side of carriage bolt; use #42-503, 3/8" flatwasher; screw on #41-513, 3/8" lock nut and tighten.

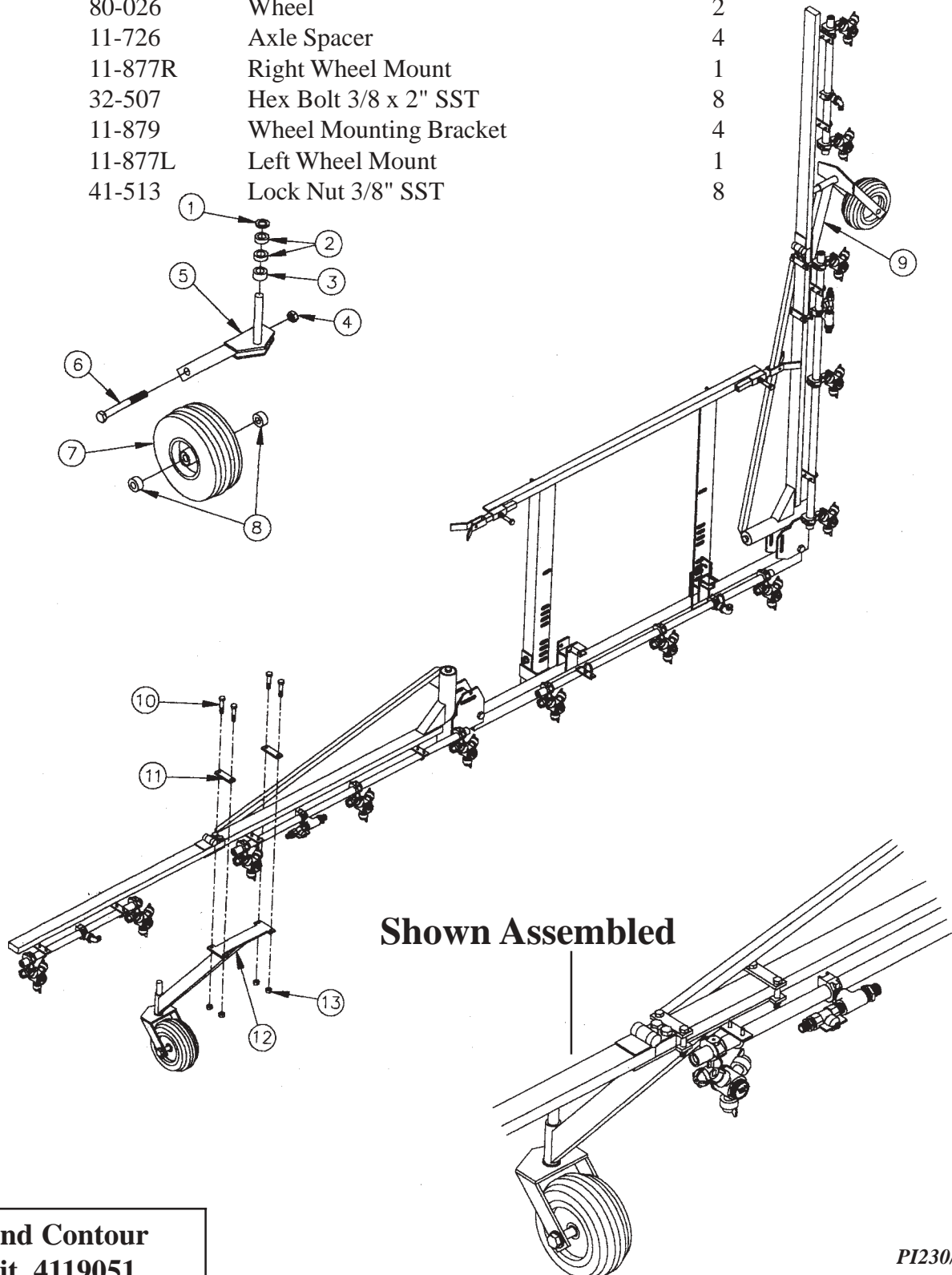
Take eyebolt side with one #41-503, 3/8" nut screwed half-way down the threads of #69-284, eye bolt, slip threaded side through 13/32" hole in channel on center section of boom. Screw on second 3/8" nut. Fold down boom arm and adjust until boom arm is level and tighten accordingly.



**SDI Swag Cable Assembly
Part No. 69-301**

PI182/1100ij

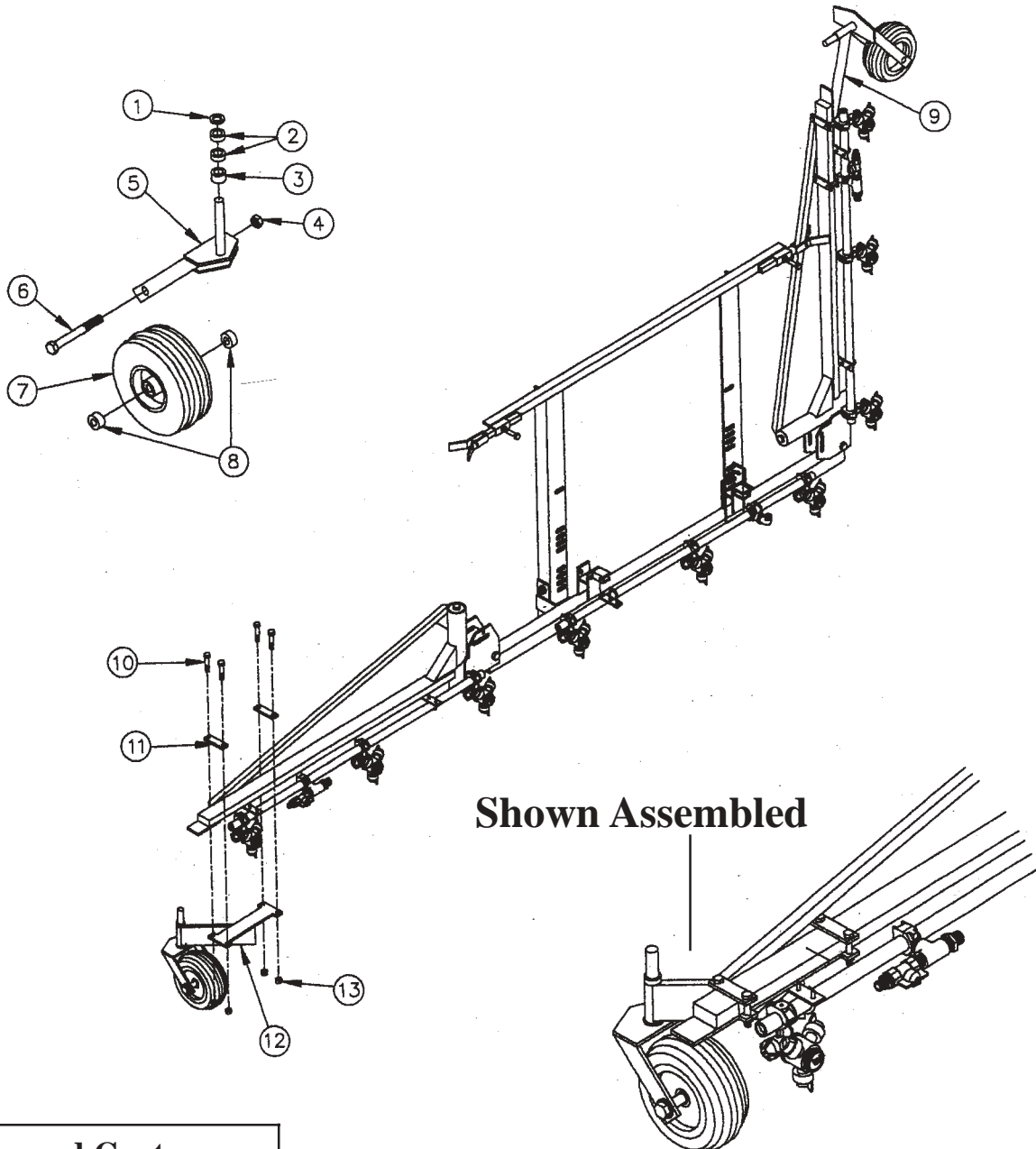
<u>Item Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
1	42-108SS	Flatwasher 3/4" SST	2
2	11-723	Spacer Ring 1/2"	4
3	11-724	Spacer Ring 3/4"	2
4	41-115	Lock Nut 5/8"	2
5	11-722	Wheel Yoke Assembly	2
6	35-121	Hex Bolt 5/8 x 5-1/2"	2
7	80-026	Wheel	2
8	11-726	Axle Spacer	4
9	11-877R	Right Wheel Mount	1
10	32-507	Hex Bolt 3/8 x 2" SST	8
11	11-879	Wheel Mounting Bracket	4
12	11-877L	Left Wheel Mount	1
13	41-513	Lock Nut 3/8" SST	8



**SDI Ground Contour
Wheel Kit, 4119051**

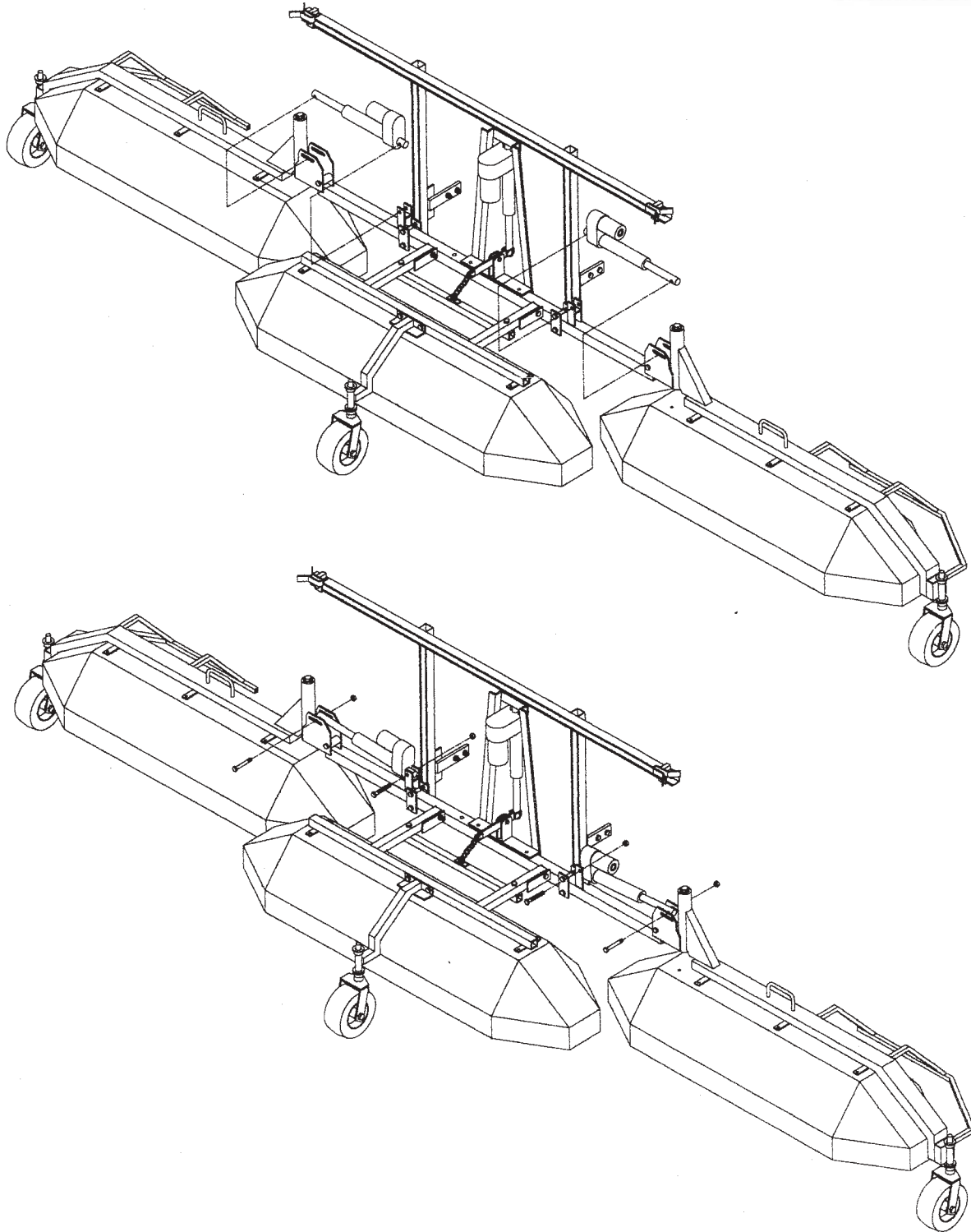
PI230/0302jj

<u>Item Number</u>	<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
1	42-108SS	Flatwasher 3/4" SST	2
2	11-723	Spacer Ring 1/2"	4
3	11-724	Spacer Ring 3/4"	2
4	41-115	Lock Nut 5/8"	2
5	11-722	Wheel Yoke Assembly	2
6	35-121	Hex Bolt 5/8 x 5-1/2"	2
7	80-026	Wheel	2
8	11-726	Axle Spacer	4
9	11-880R	Right Wheel Mount (<i>Not illustrated</i>)	1
10	32-507	Hex Bolt 3/8 x 2" SST	8
11	11-879	Wheel Mounting Bracket	4
12	11-880L	Left Wheel Mount	1
13	41-513	Lock Nut 3/8" SST	8



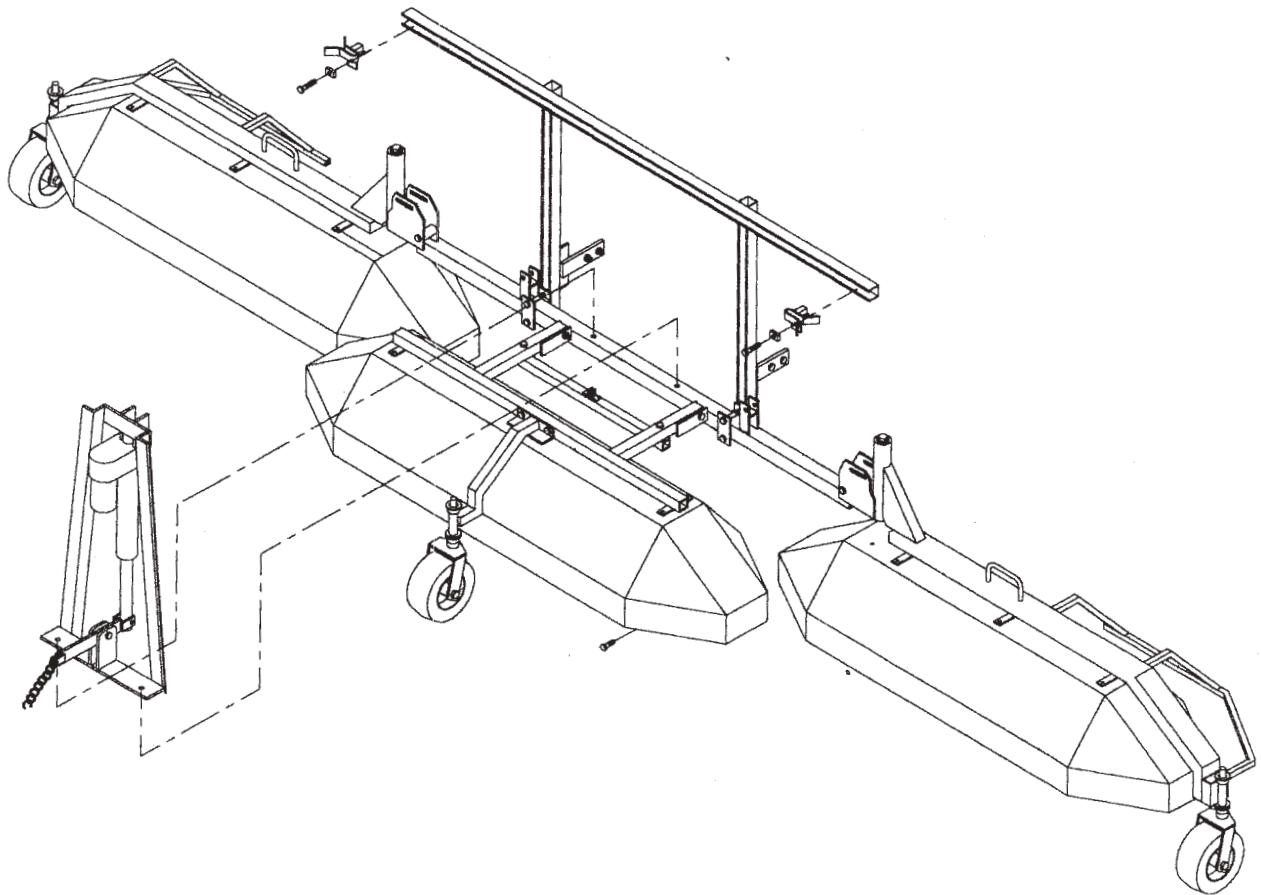
**SDI Ground Contour
Wheel Kit, 4119050**

PI230/1002jj



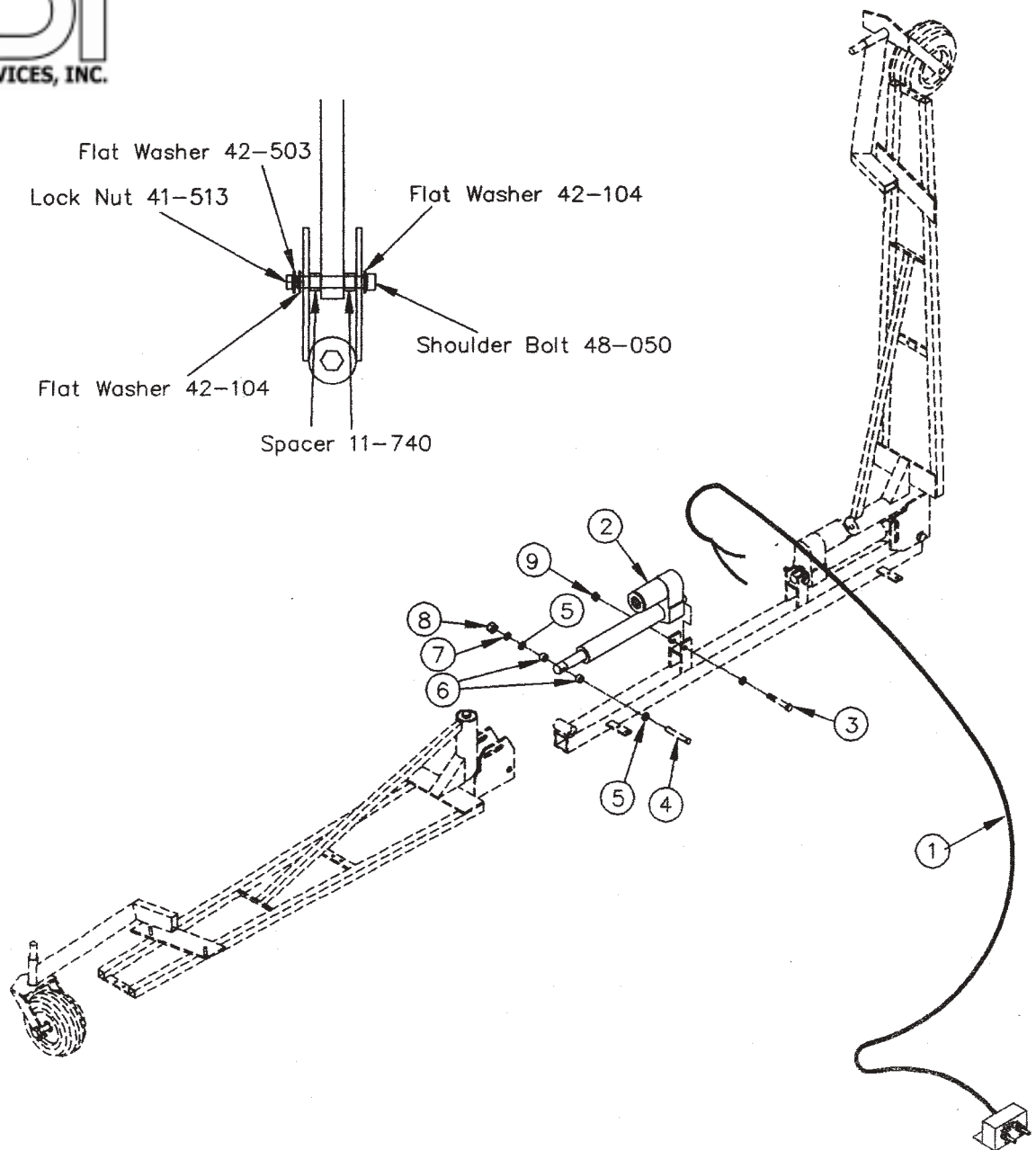
SDI Electric Lift Kit
Part No. 4119054

PI195/0601jj



**SDI Single Electric Lift
Kit Part No. 4119055**

PI18181/0601jj



<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	56-023-3	Switch Box and Harness	1
2	20-059	Actuator	2
3	34-109	Bolt 1/2 x 2-1/2"	2
4	48-050	Shoulder Bolt 1/2 x 3"	2
5	42-104	Flat Washer 1/2"	4
6	11-740	Spacer 1/2" SST	4
7	42-503	Flat Washer 3/8" SST	2
8	41-513	Lock Nut 3/8" SST	2
9	41-514	Lock Nut 1/2" SST	2

SDI Electric Lift Kit
Part # 4119054

“Electric Lift Option” Installation

Instructions:

Part Number 4119054 furnished as an option to change the “Manual Lift” Optimum Turf Spray Boom to an “Electric Lift” Spray Boom. A 12 volt DC power source is required for assembly. If your Spray Boom is to be used with the Ground Contour Wheel Kit, the following items need to be removed before installing the Electric Lift option:

- The two eyebolts that are mounted on the breakaway arms where the lower part of the cable hooks up.
- The two thimbles on the end slots of the cross member where the upper part of the cable hooks up.
- The two cables and all cable clamps.

Save these parts! They can be used as a temporary replacement if an actuator fails.

If your Spray Boom with electric lift is **not** going to be used with the Ground Contour Wheel Kit, leave the cable assemblies for the breakaway arms in place and proceed as follows:

NOTE: The Spray Boom must be completely assembled and set up correctly before installing the electric lift kit. If not, refer to the set up instructions for the spray boom and then proceed with the installation of the electric lift kit as follows:

1. Make sure to lower both breakaway arms down to the spray position.
2. Actuators must be in the fully extended position to install correctly. If they are in the compressed position, connect the battery clips on the harness assembly to a 12 volt battery. Connect the yellow and green wires to the wire connector on the actuator and flip the switch marked “left side” to the up position until the actuator shaft is fully extended-then release switch. Disconnect the harness assembly from the actuator and the battery.
3. Using the 1/2 x 2-1/2" bolts, Part #34-109, and the 1/2" lock nuts, Part #41-514, connect the fixed end of the actuator, Part #20-059, to the center section with the actuator motor on the top side.
4. Align the hole on the end of the actuator shaft with the slot on the lower breakaway hinge. Install a 1/2" flat washer, Part #42-104, on the shoulder bolt, Part #48-050, and insert through the slot and into the hole on the actuator shaft. Then install another 1/2" flat washer on the end of the shoulder pin and insert a cotter pin into the hole on the shoulder pin. Bolt with 3/8" lock nut, Part #41-513.

Repeat this procedure for the other breakaway arm.

5. Before connecting the wire harness to the 12 volt power source, connect the harness assembly to the wire connector on the actuators. The yellow and green wires operate the left side, the red and brown wires operate the right side. Route the harness assembly forward to the operator area.

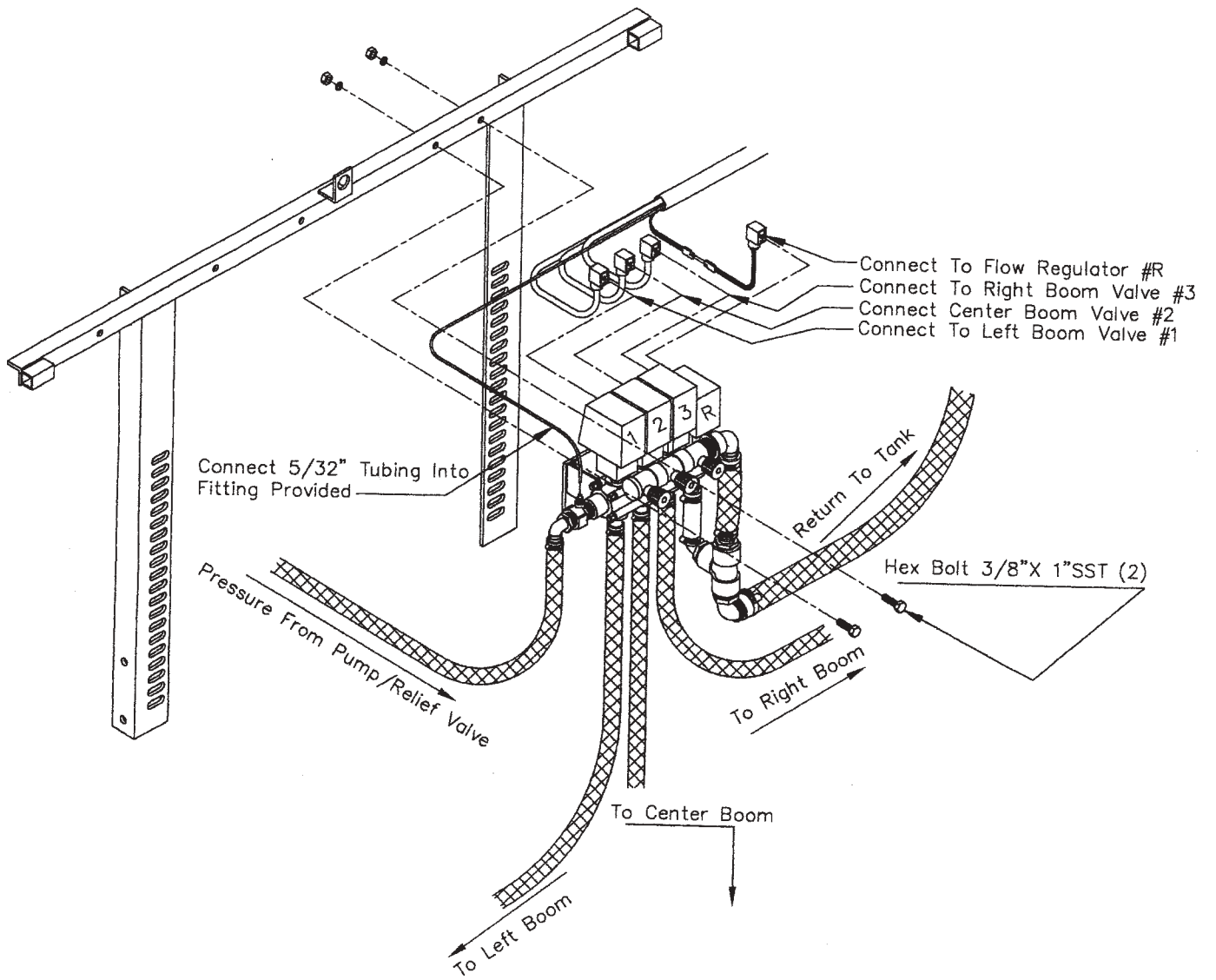
6. Mount the switch box in a convenient location for the operator (near spray boom controls, dash board, etc.). Install the connector plug from the harness assembly to the connector plug on the harness from the switch box. Connect the battery clips from the switch box harness to the 12 volt power source (red to positive, brown to negative).

7. Position the boom rest brackets on each end of the cross member. Loosen the 3/8 x 3/4" bolt that mounts the boom rest mounting bracket to the cross member. Slide the boom rests in about 10" from the ends of the cross member. Using the switch box, raise each breakaway arm until the actuator is fully extended. Slide the boom rest bracket up for each side against the middle rail on each breakaway arm. This is the correct position for the boom rest. Tighten all bolts securely.

8. When all connections are complete, flip the up-down switch for each side to insure each boom section will raise and lower properly.

NOTE: Low voltage at the battery or insufficient wire size can cause the actuators to overheat, operate slowly and fail prematurely. Helpful hints to insure proper operation and long actuator life:

1. With the vehicle running, test battery voltage. A fully charged battery should read a minimum of 14 volts DC. If battery voltage is low, test the battery and charging system.
2. Voltage at the actuator should not exceed 28 amps per actuator. The highest voltage draw will be the first few feet of lit. To accurately test the current draw, test at the actuator with an amp meter.
3. If power supply leads are not connected directly to the battery, make sure the wire size of the wires is a minimum of 12 gauge. Check all wire harness connectors and wire terminals for loose connections.
4. It is recommended that an anti-corrosion compound be applied to all electrical connections. Also sealing all connections with clear RTV silicone will help prevent moisture penetration.



SDI Set-Up Diagram
Part #4119052

Instructions for 4119052 Motorized

Boom Valve Controls

Step 1:

Bolt Valve Assembly, Part Number 18-300, onto cross member of boom using 3/8 x 1" bolts, lockwashers and nuts (supplied).

Note: If boom has adjustable channel cross-angle, use 3/8" adjustable channel nuts (supplied).

Step 2:

Install DIN connectors from wiring loom using water resistant DIN connector gasket and screws included in the 18-200 kit, to Motorized Valves and Pressure Regulator.

Note: If using 4119052, this harness is supplied on the Service Vehicle. DIN connector with 2-prong plug Part Number 18-321, is included in the 18-320 kit (Included with 4119052).

Step 3:

Plug 5/32" tubing into 5/32" tubing adapter located next to valve #1.

Step 4:

Install ball valve and 3/4" hose barb adapter elbow (included in 18-300 kit), to pump outlet. Run 3/4" hose (cut to desired length), from pump to inlet on the Motorized Valve.

Step 5:

Remove 1" plug from return fitting on tank. Install 1" hose barb elbow to return fitting.

Step 6:

Install bypass return hose from 1" hose barb elbow on Motorized Valves to 1" elbow on tank.

Step 7:

Cut 3/4" hose to length and install from valves to boom inlet adapters (allow extra length on outer wing sections to allow for breakaway capabilities).

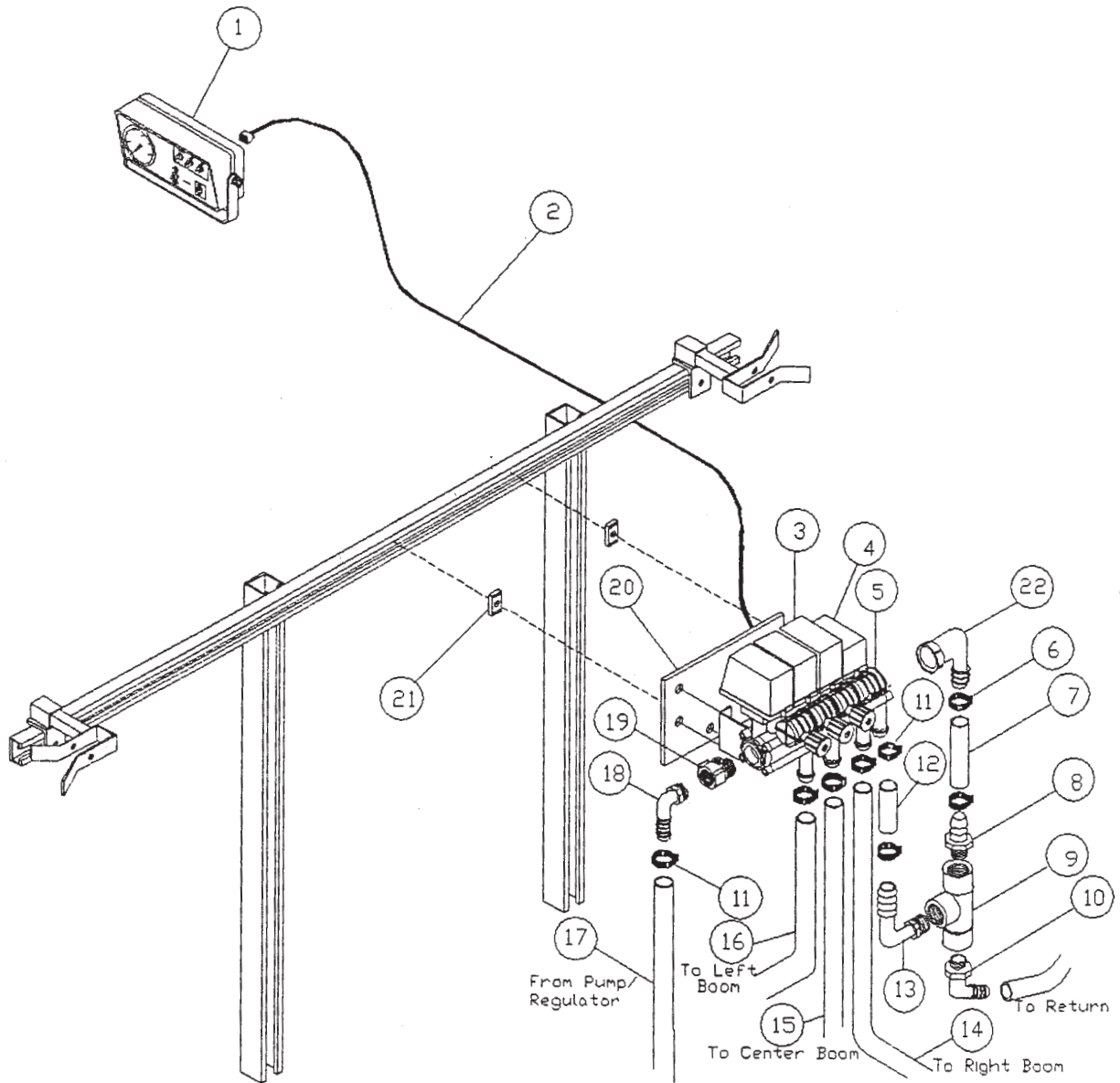
Step 8:

Install Control Box to Control Mount. If using All Function Control Box, plug into socket located near glove box.

If using Control Box for 18-310, plug harness into back of Control Box, install power lead and connect to battery, brown wire (+) positive, blue wire (-) ground.

Step 9:

Install 5/32" tubing into adapter on Control Box.

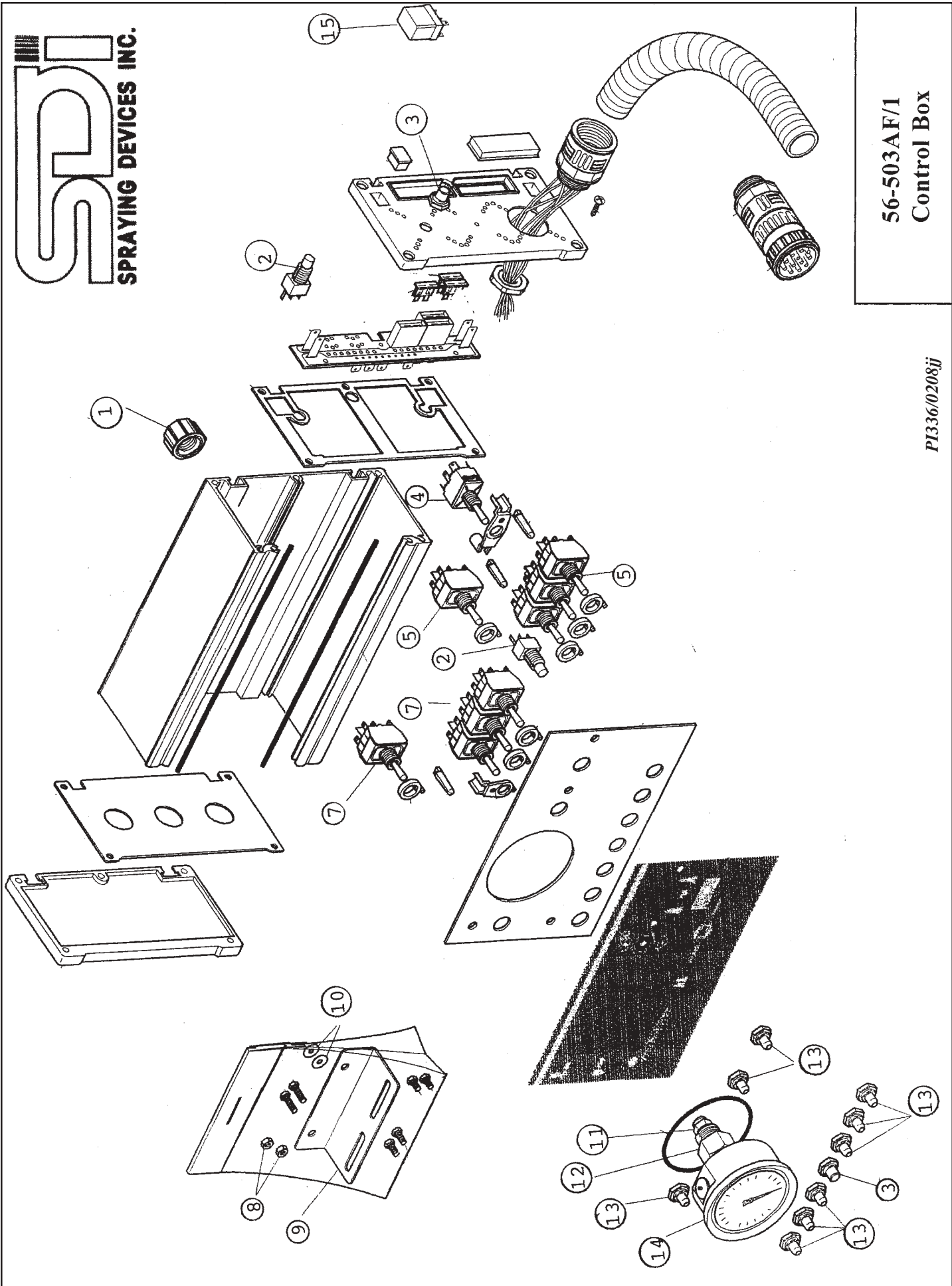


**SDI Motorized Boom
 Valve Controls**

PI11107/1197eh

SDI Motorized Boom Valve Controls

Item Number	Part Number	Description	Qty
	4119052	Vehicle Mounted Motorized Boom Valve Controls	
1	56-503AF	Control Box	1
2	*56-504AF	Wire Harness	1
3	56-500	Three Motorized Valves	1
4	56-200	Regulating Valve	1
5	56-502	Manifold	1
6	24-116	Hose Clamp #16	6
7	21-938	Hose 1" ID, Per Foot	Specify
8	53-435	Adapter 1 MPT x 1" HB Poly	1
9	53-826	Tee 1" NPT Poly	1
10	52-120	Elbow 1 MPT x 1" HB Poly	2
11	24-112	Hose Clamp #12	10
12	21-930	Hose 3/4" ID, Per Foot	Specify
13	52-119	Elbow 1 MPT x 3/4" HB Poly	1
14	**21-930	Right Boom Hose 3/4" ID, Per Foot	Specify
15	**21-930	Center Boom Hose 3/4" ID, Per Foot	Specify
16	**21-930	Left Boom Hose 3/4" ID, Per Foot	Specify
17	**21-930	Pump Hose 3/4" ID, Per Foot	Specify
18	52-112	Elbow 3/4 MPT x 3/4" HB Poly	1
19	56-2152	Adapter 3/4 MPT x 3/4 MPT x 1/8" Port	1
20	11-639	Mounting Plate	1
21	41-106	Strut Nut 3/8"	2
22	56-511	Fly Nut Assembly	1
	**21-930	25' of Hose 3/4" ID included - cut to lengths as required.	
		<i>The following items are not illustrated:</i>	
	11-021	Control Arm	1
	11-022	Control Stand	1
	11-023	Control Stand Clamp	1
	21-938	Hose 1" ID, Per Foot	Specify
	*	Not used on Jacobsen Truckster with factory installed harness. Contract Jacobsen, a Textron Company, for this harness.	



**56-503AF/1
 Control Box**

PI336/0208jj

Spraying Devices, Inc., P O Box 3107 • Visalia, CA. 93278 • Tel: (559)734-5555 • Fax: (559)734-5591

SDI Control Box

Item Number	Part Number	Description	Qty
	56-503AF/1	Control Box	
1	61-527	Reducer 1/4 x 1/2"	1
2	61-531	Main Power Switch/Dual Foamer Switch	2
3	61-517	Main Power Boot	2
4	61-260	On/Off Switch	1
5	61-515	Boom Lift Pressure Switch	4
7	61-500	On/Off Boom Switch	4
8	61-106	Nut	2
9	61-525	Mounting Bracket	1
10	61-118	Washer	2
11	61-528	Tubing Connector 1/8"	1
12	61-535	Long Pressure Gauge Adapter	1
13	61-516	Switch Boot Toggle Switch	9
14	56-509	Liquid Pressure Gauge 0-100 PSI	1
15	61-530	Relay 12C 3A	1

Setting Pressure for Motorized Controls

The following instructions are designed to assist you the customer, with the proper setting and testing of your **Motorized Control Unit**:

For models with a diaphragm pump:

1. Shut off ball valve to boom.
2. Set **manual relief valve to 70-80 PSI** - (this is used mainly as a safety valve and will not operate below that pressure).
3. Open ball valve to booms.

For all models - *for centrifugal pump models, the first three steps are not required:*

4. Close all three (3) **Metered Bypass Valves** (red knobs) by turning knobs in a clockwise direction as far as they will go (Figure 1).
5. Open all three (3) sections of the boom from the **Control Panel**. Set desired operating pressure using electric **Control Switch** on **Control Panel**. To set the **Metered Bypass Valve**, close one boom section at a time. Then open the **Metered Bypass Valve** for that boom section until the desired operating pressure is achieved.

EXAMPLE: Desired pressure is 40 PSI to set **Metered Bypass Valve**:

- A. Shut left boom section off on the **Control Panel**.
 - B. Pressure will read more than 40 PSI.Center
 - C. Using left **Metered Bypass Valve**, open valve until operating pressure returns to **40 PSI**.
6. **Repeat** the above procedure for the **center and right boom sections**, making sure the other two (2) boom sections are open.

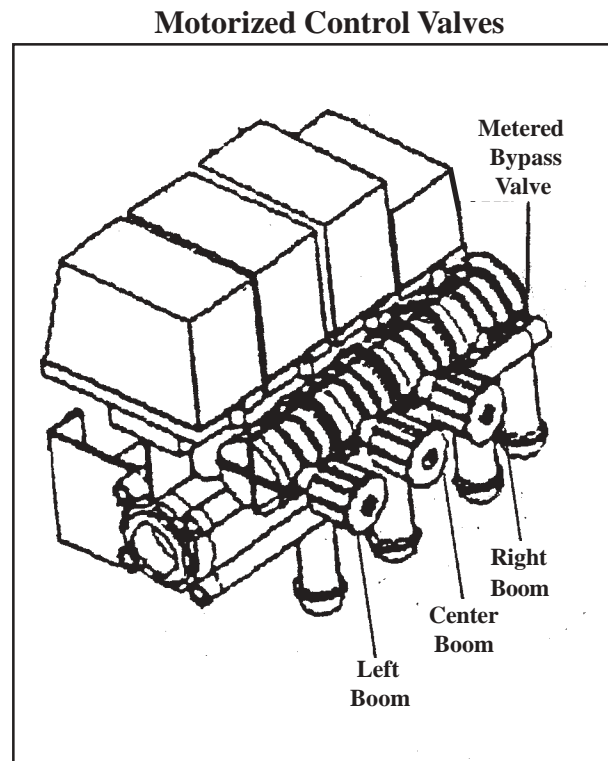
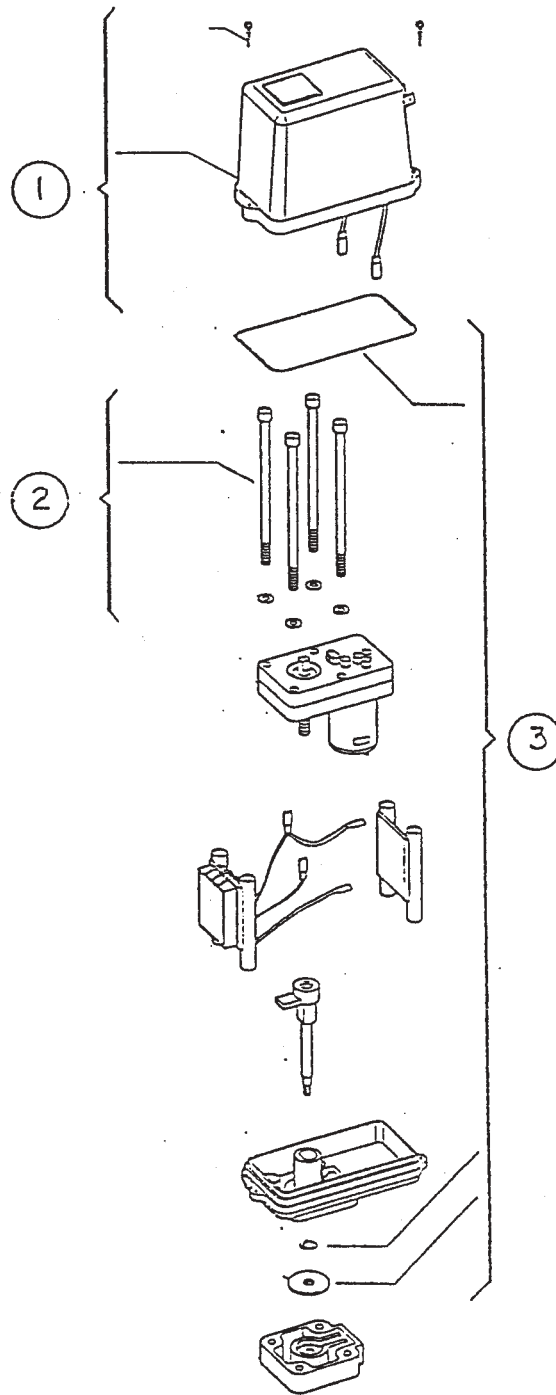


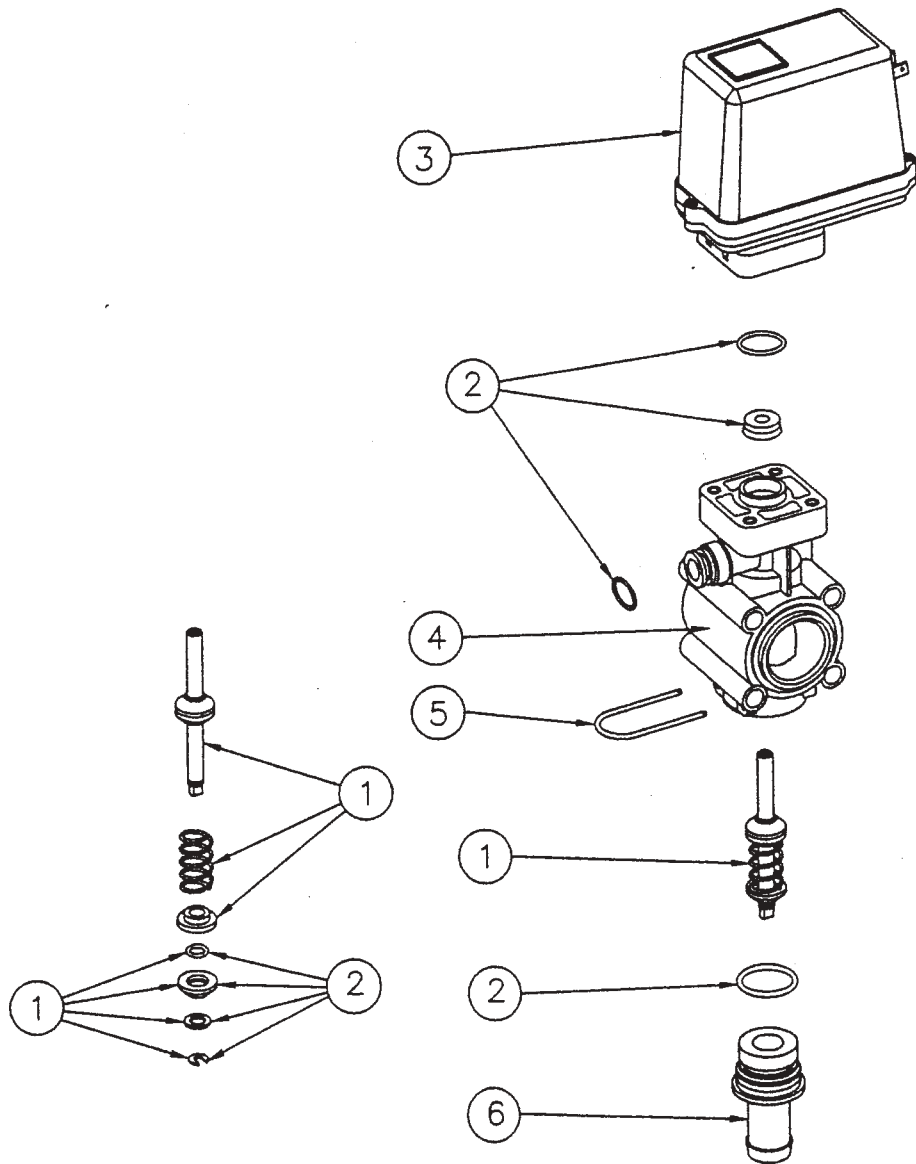
Figure 1

<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	56-525	Valve Cover	1
2	56-526	Valve Screw Kit	1
3	56-540	Gasket Set	1



**SDI Motorized Valve-
Single Valve, Part #56-501**

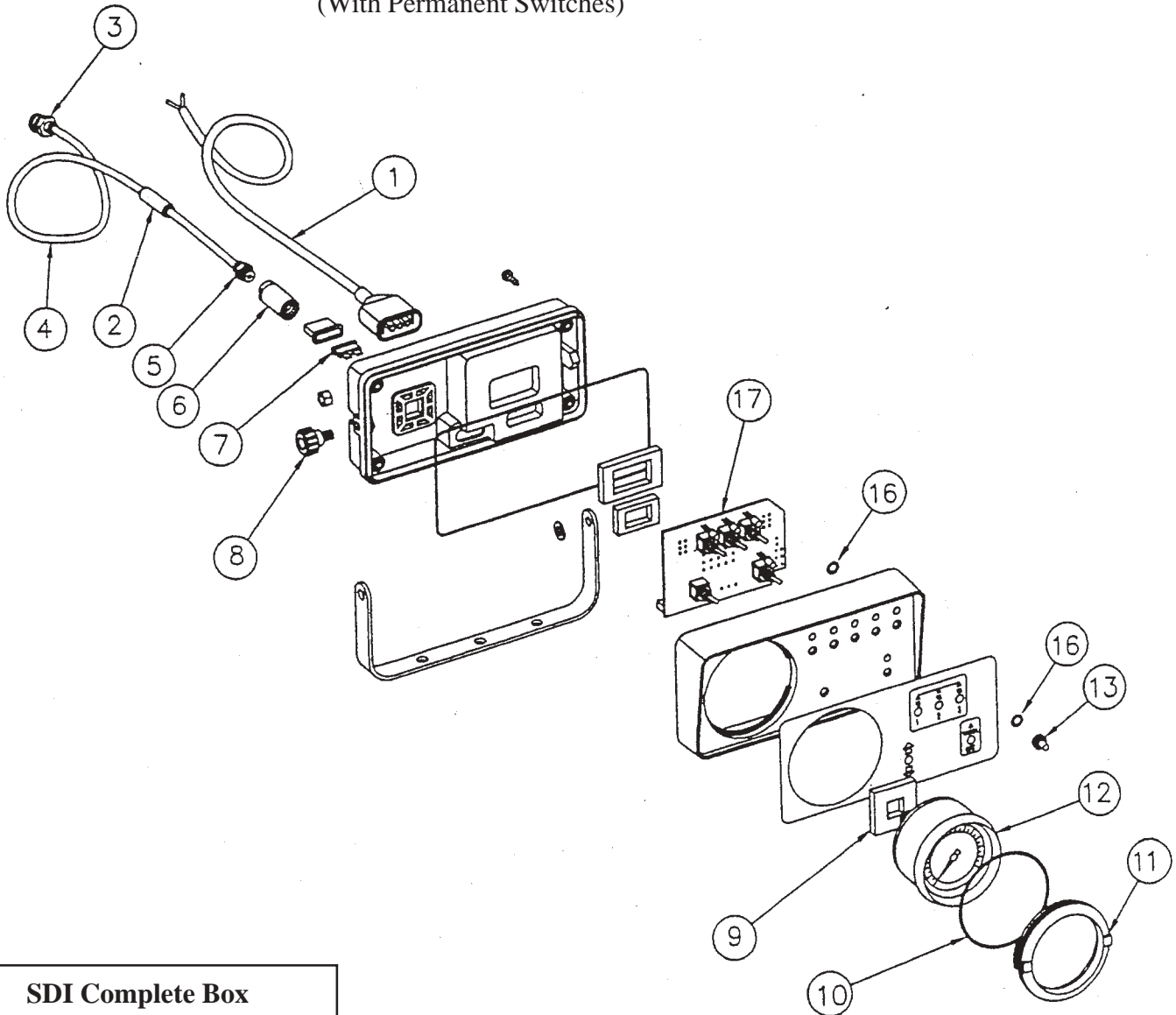
<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	56-538	Plunger Repair Kit	1
2	56-539	Seal Kit	1
3	56-100	Motor Assembly	1
4	56-101	Valve Body	1
5	56-106	Locking Pin	1
6	56-105	3/4" Hose Fitting	1



**SDI Motorized Valve-
Single Valve, Part #56-501**

PI163/200jj

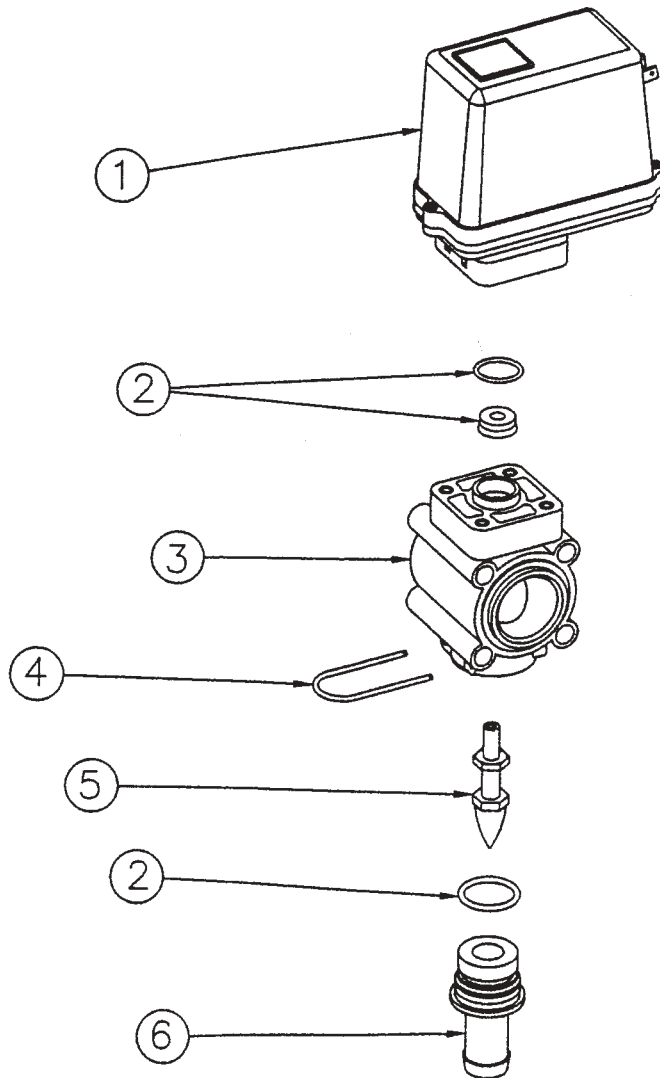
<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	56-507	Power Cable	1
2	56-516	Union Fitting	1
3	56-510	Fitting 18 MPT x 5/32"	1
4	49-532	Nylon Tubing 5/32" OD, Per Foot	Specify
5	56-204	Fitting 1/4 MPT x 5/32"	1
6	50-250B	Coupling 1/4" FPT, Brass	1
7	56-70079	Fuse AGC10	1
8	56-537	Knob	1
9	56-531	Cushion	1
10	56-532	O-ring	1
11	56-535	Locking Ring	1
12	56-509	Pressure Gauge 0-100 PSI	1
13	56-533	Rubber Cap	1
16	56-534	O-ring (2 Per Switch)	2
17	56-527	Electronic Circuit Board (With Permanent Switches)	1



**SDI Complete Box
Assembly, Part #56-503**

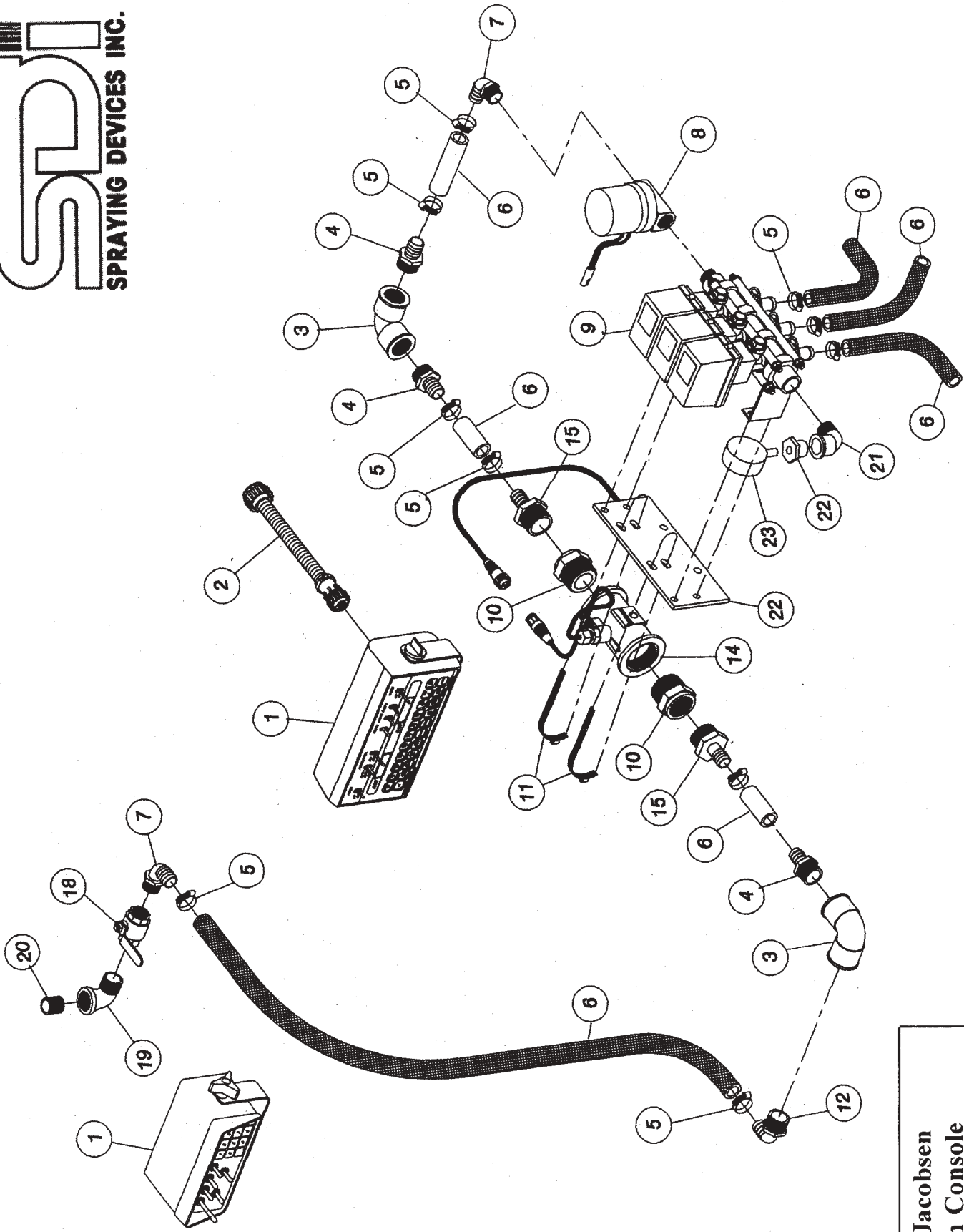
PI163/200jj

Item #	Part #	Description	Qty
1	56-201	Motor Assembly	1
2	56-540	Seal Kit	2
3	56-202	Regulator Valve Body	1
4	56-106	Locking Pin	1
5	56-203	Regulator Stem	1
6	56-105	3/4" Hose Fitting	1



SDI Motorized Regulator
Part # 56-200

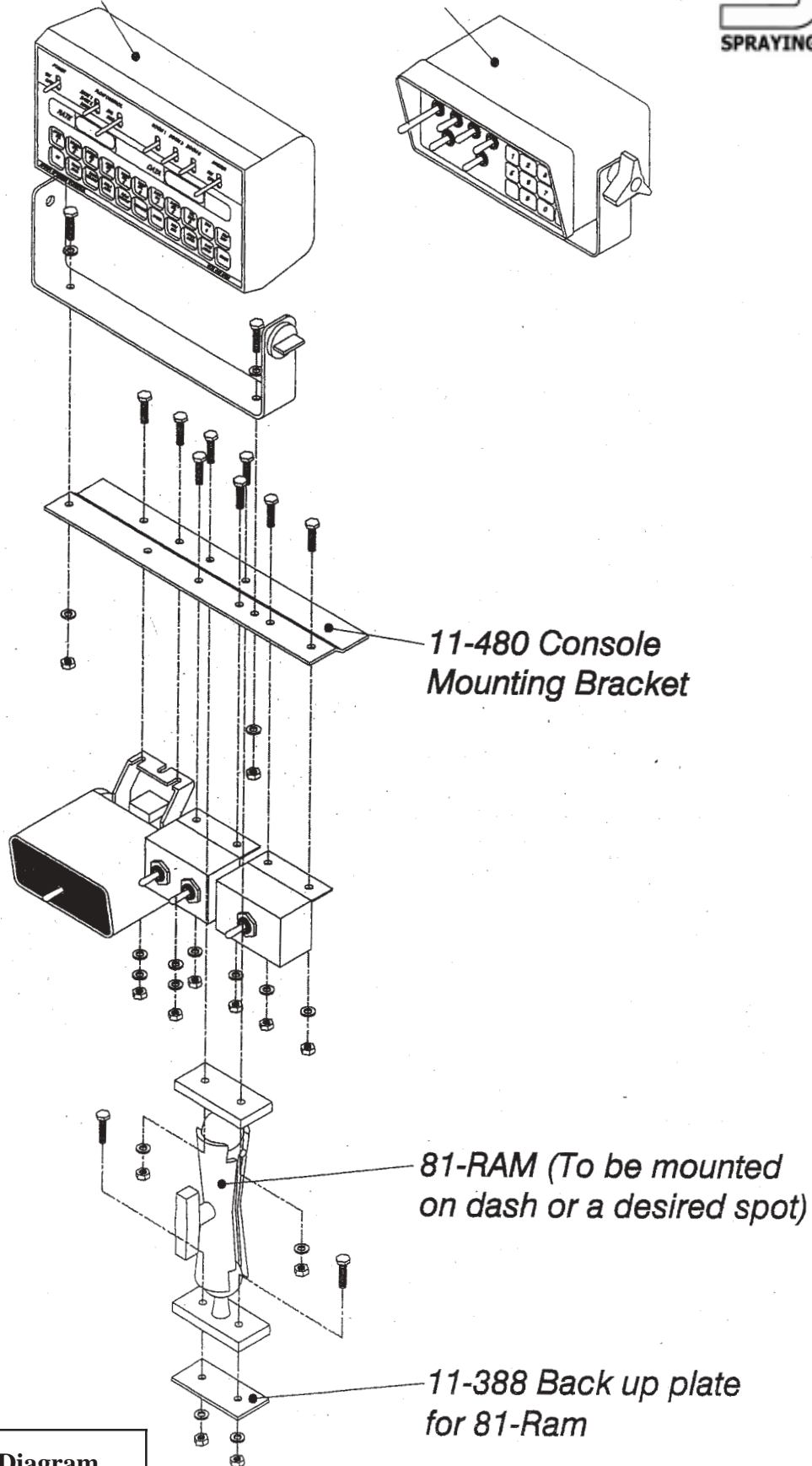
PI163/200jj



**SDI/Jacobsen
 Raven Console
 4119056/4119057**

4119057 (SCS440 Console)

4119056 (SCS330 Console)



Mounting Diagram
4119056/4119057

PI275/0504jj

SDI/Raven Controls 4119056/4119057

Item Number	Part Number	Description	Qty
	4119056	Raven Console SCS330	
	4119057	Raven Console SCS440	
1	30-101	Control Console 4119056	1
1	30-102S	Control Console 4119057	1
2	30-133	Wire Harness Assembly 2 Ft.	1
3	52-282	Elbow 1" NPT Poly	2
4	53-434	Adapter 1 MTP x 3/4" HB Poly	3
5	24-110	Hose Clamp #10	14
6	21-930	Hose 3/4" ID, Per Foot	Specify
7	52-112	Elbow Adapter 3/4 MPT x 3/4" HB Poly	2
8	30-100	Control Valve	1
9	56-302	Motorized Valve Assembly	1
10	53-803	Bushing 1-1/2 x 1-1/3" Poly	2
11	24-136	Hose Clamp #36	2
12	52-119	Elbow Adapter 1 MPT x 3/4" HB Poly	1
14	11-230	Mounting Plate	1
15	53-439	Adapter 1-1/4 MPT x 3/4" HB Poly	2
16	30-199	Flow Meter	1
18	60-324	Ball Valve 3/4" FPT	1
19	50-510SS	Street Elbow 3/4" x 90° SST	1
20	51-501SS	Close Nipple 3/4" SST	1
21	53-813	Street Elbow 3/4" x 90° Poly	1
22	50-560SS	Bushing 1/4 x 4" SST	1
23	27-100	Liquid Filled Gauge 0-100 PSI	1

Wheel Drive Speed Sensor Installation Instructions

The wheel drive speed sensor consists of two or four magnets (depending upon which control you are using-SCS330=2 or SCS440=4), a switch assembly with cable and mounting hardware.

Mounting Steps:

1. Use right rear wheel (passenger side).
2. Mount 2 or 4 magnets, depending upon which controller you have, to the inside of the wheel (rim) using two-sided tape provided. **Magnets must be mounted in alternating white - black order** (see illustration #1 A or B).
3. Mount switch assembly using hardware provided, to axle.
4. Position switch assembly so that as the wheel rotates, the magnets pass across center of the black molded switch assembly.
5. Clearance gap between magnets and switch assembly, must be between 1/4 inch (6 mm) and 1 inch (25 mm). Rotate wheels to ensure gap is correct and that the magnets do not hit the switch.
6. Tighten switch assembly bracketry.
7. Secure cable to bracketry with plastic cable ties, making certain cable will not rub or touch any moving or hot parts of the truck.

Location of Magnets Illustration #1

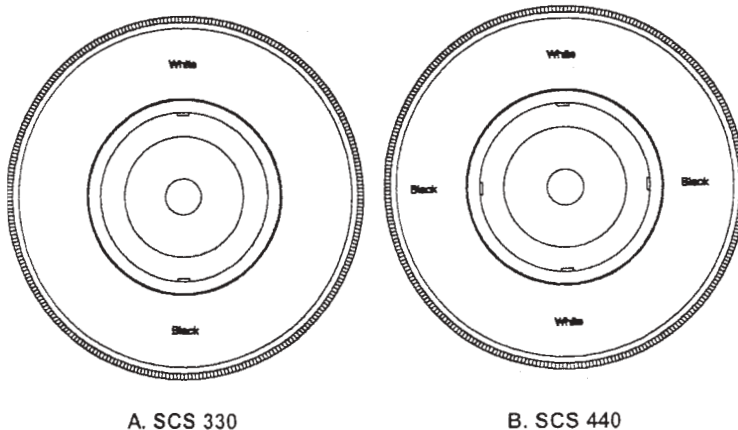


Illustration #2

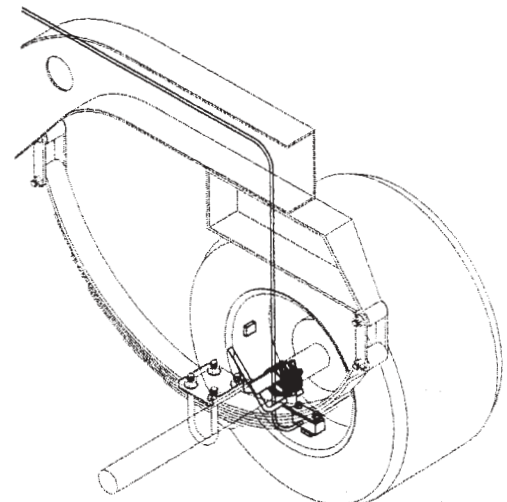
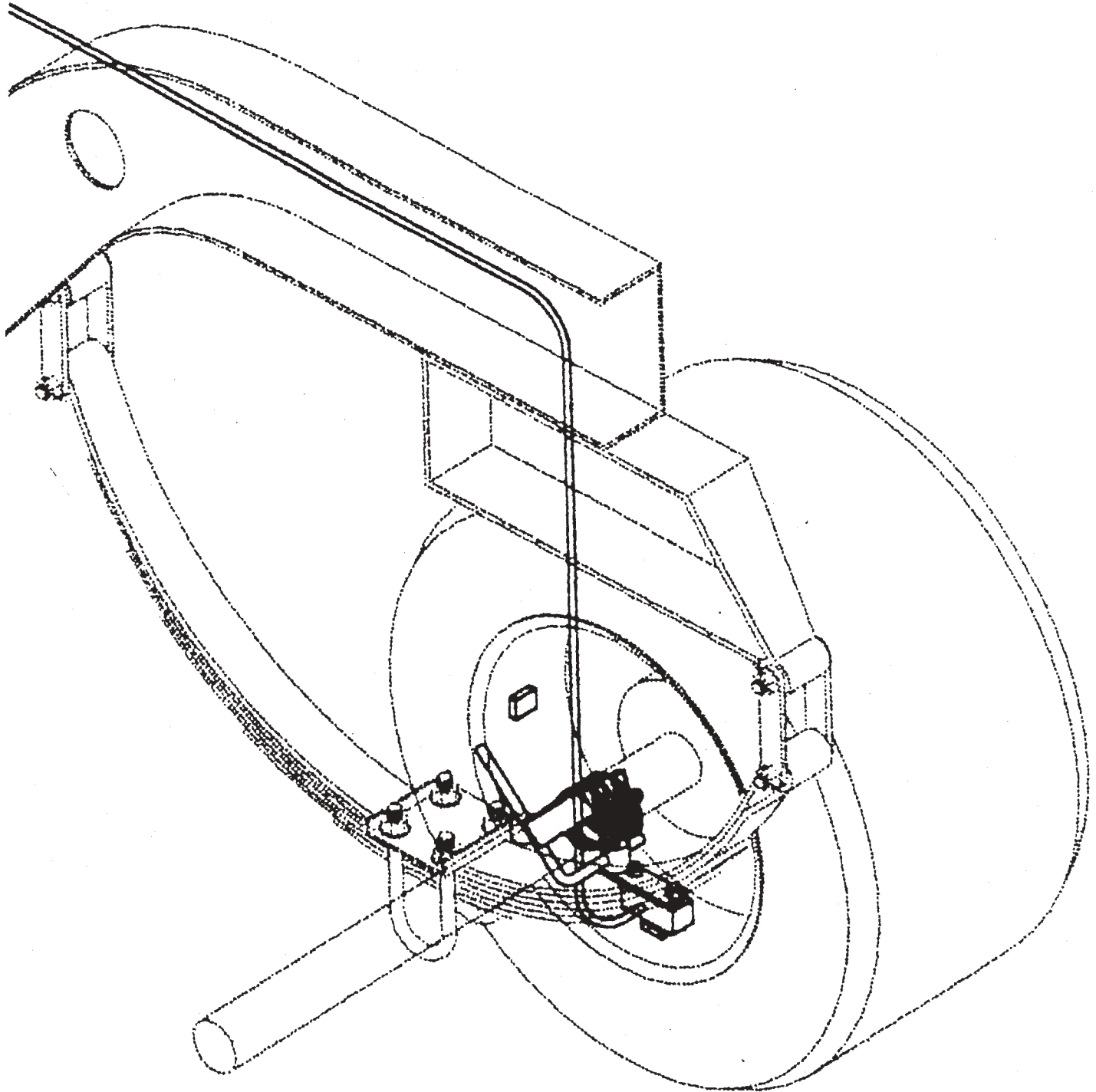
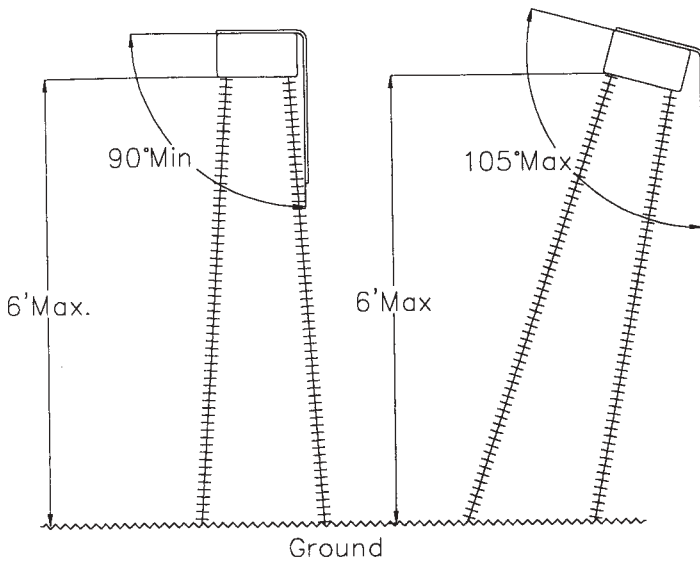


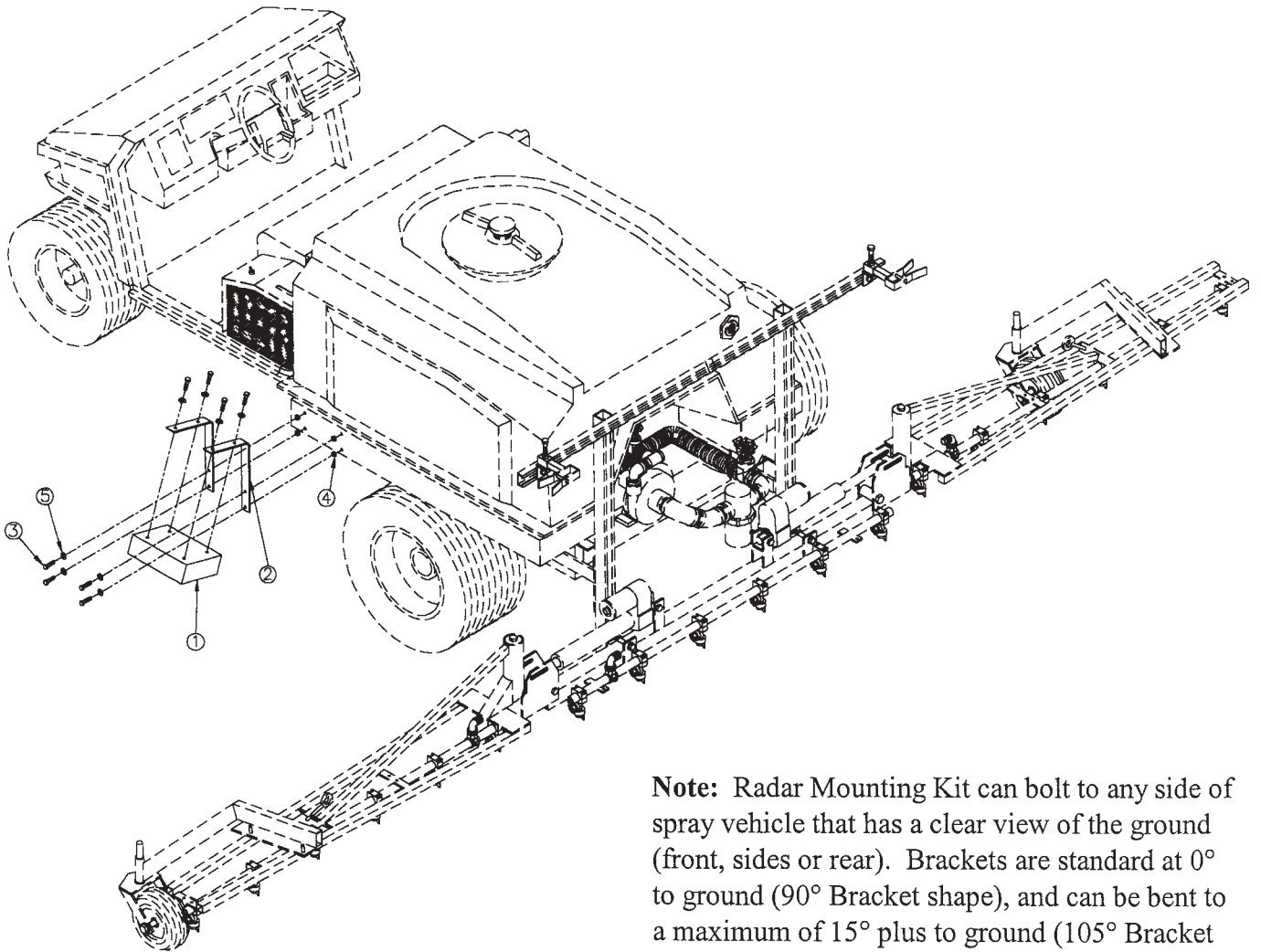
Illustration #2



Mounting Instructions
Part # 4119061



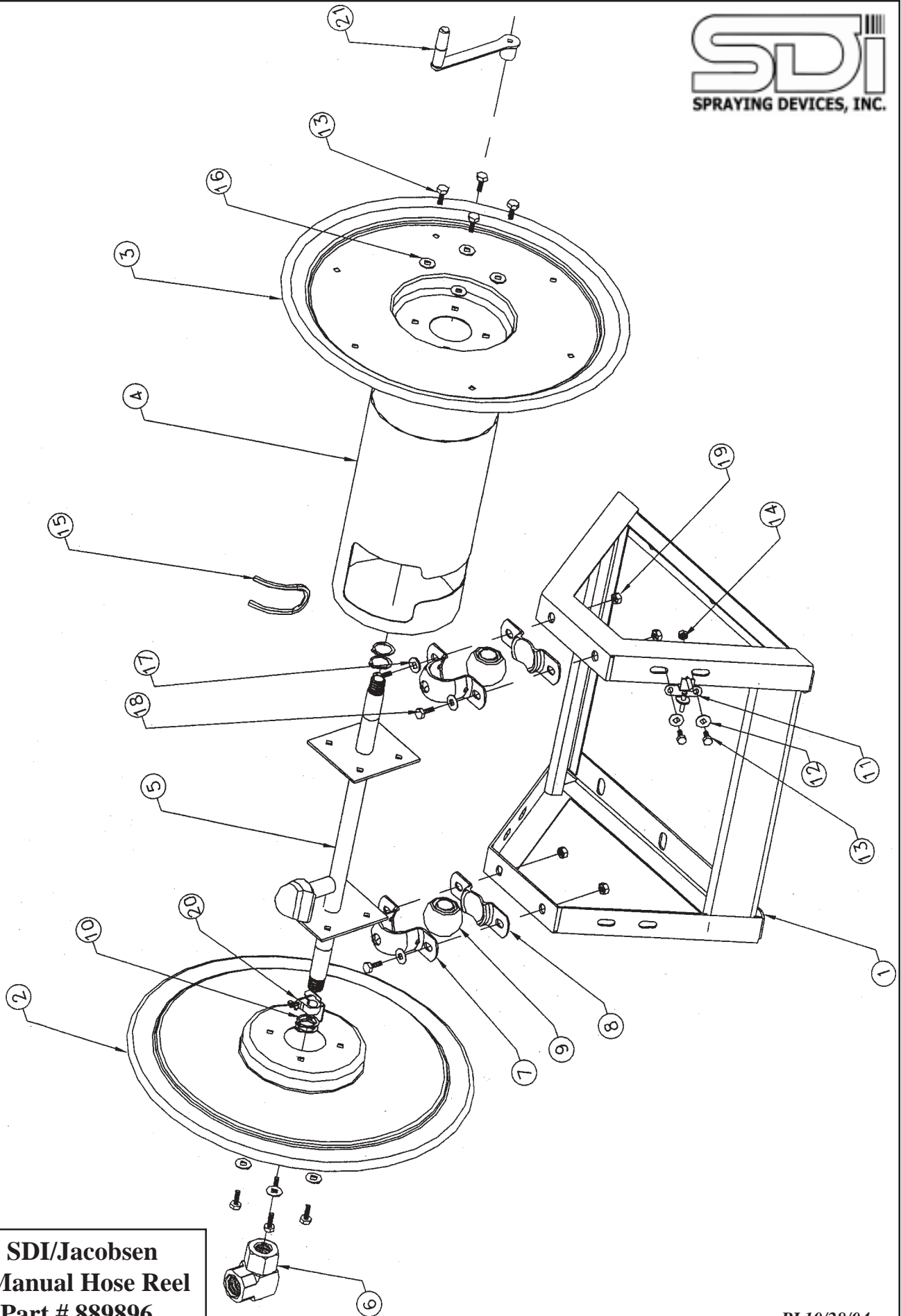
<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
895074 Raven Radar Assembly			
1	81-822	Raven Radar Gun	1
2	11-234	Mounting Brackets	2
3	32-503	Hex Bolt 3/8 x 1" SST	4
4	41-503	Hex Nut 3/8" SST	4
5	43-503	Lockwasher 3/8" SST	4



Note: Radar Mounting Kit can bolt to any side of spray vehicle that has a clear view of the ground (front, sides or rear). Brackets are standard at 0° to ground (90° Bracket shape), and can be bent to a maximum of 15° plus to ground (105° Bracket shape) for radar beam clearance (refer to Raven Manual).

**SDI Raven Radar
Assembly Part #895074**

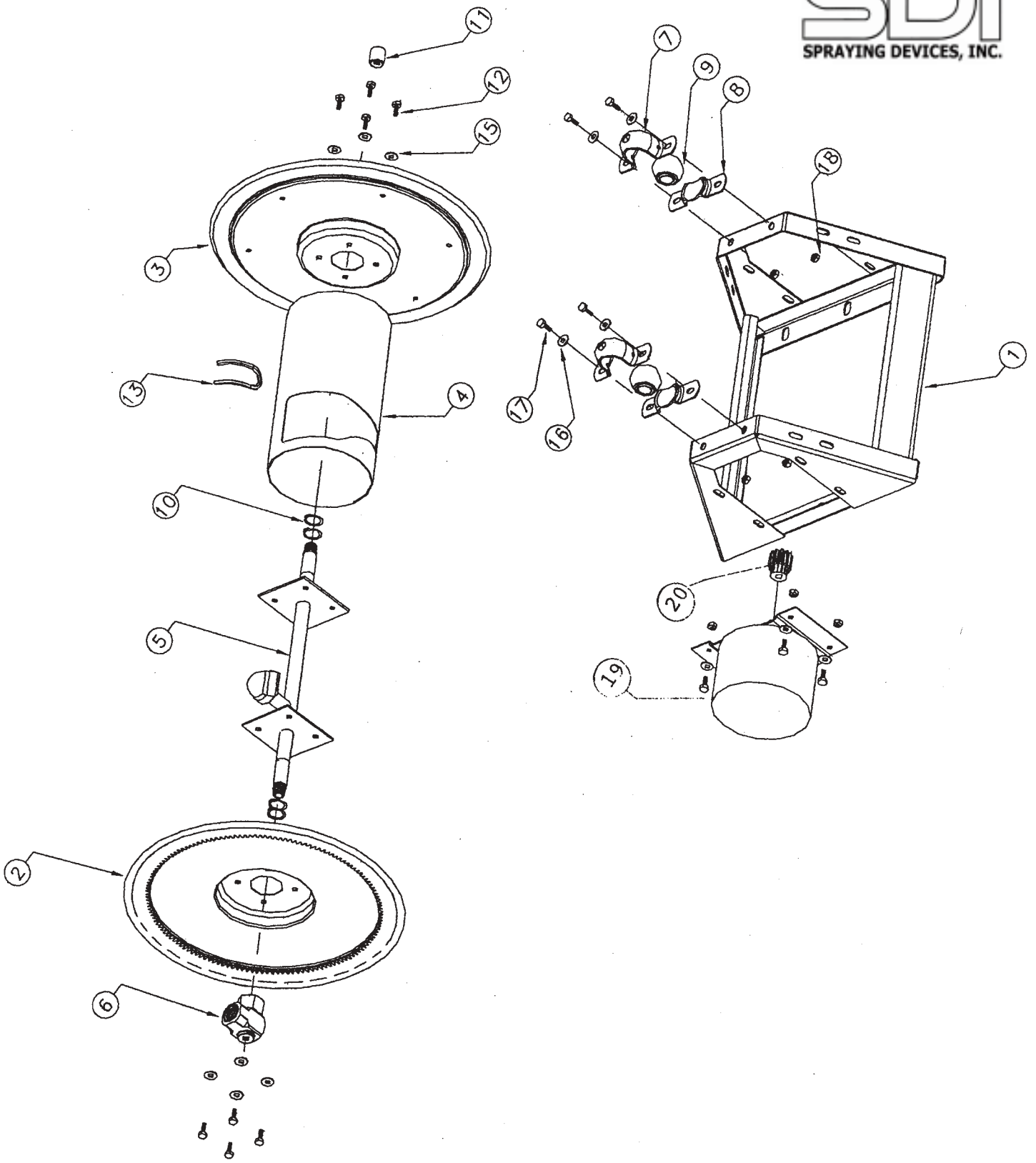
PI270/1203jj



**SDI/Jacobsen
 Manual Hose Reel
 Part # 889896**

Manual Hose Reels

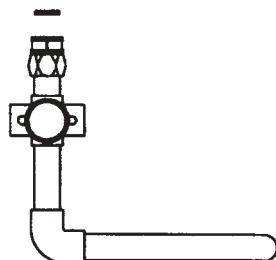
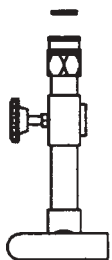
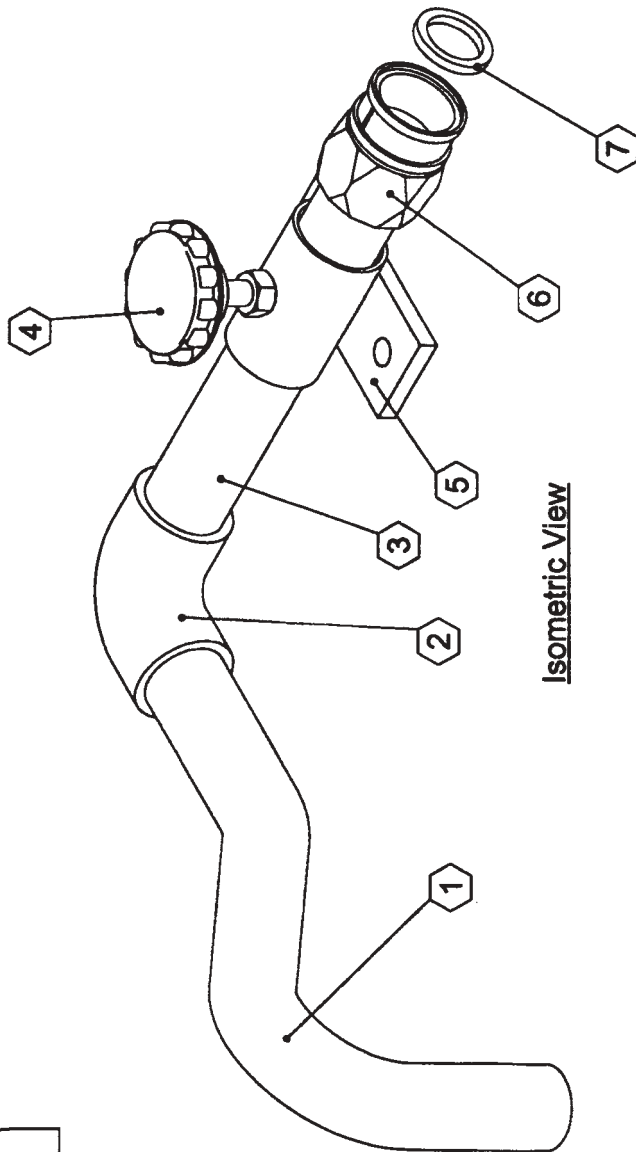
Item Number	Part Number	Description	Qty
	889896	Manual Hose Reel	
1	59-508	Frame	1
2	59-301	Disc SWV Side	1
3	59-300	Disc Crk Side	1
4	59-500	Center Drum	1
5	59-505	Axle Assembly	1
6	59-205	Swivel	1
7	59-228	Pillow Block Mtg Top	2
8	59-229	Pillow Block Mtg Bottom	2
9	59-230	Bearing	2
10	59-232	Retaining Ring	4
11	59-512	Lock Pin Assembly	1
12	59-251	Flatwasher 5/16"	2
13	59-236	Bolt 5/16-18 x 3/4" Long	10
14	59-237	Locking Nut 5/16"	2
15	59-511	Trim, Per Inch	Specify
16	59-240	Lockwasher 5/16"	8
17	59-241	Flatwasher 3/8"	4
18	59-242	Bolt 3/8-16 x 1" Long	4
19	59-243	Locking Nut 3/8"	4
20	59-513	Drag Brake	1
21	59-256	Hand Crank	1



SDI/Jacobsen
Electric Hose Reel
Part # 889895

Electric Hose Reels

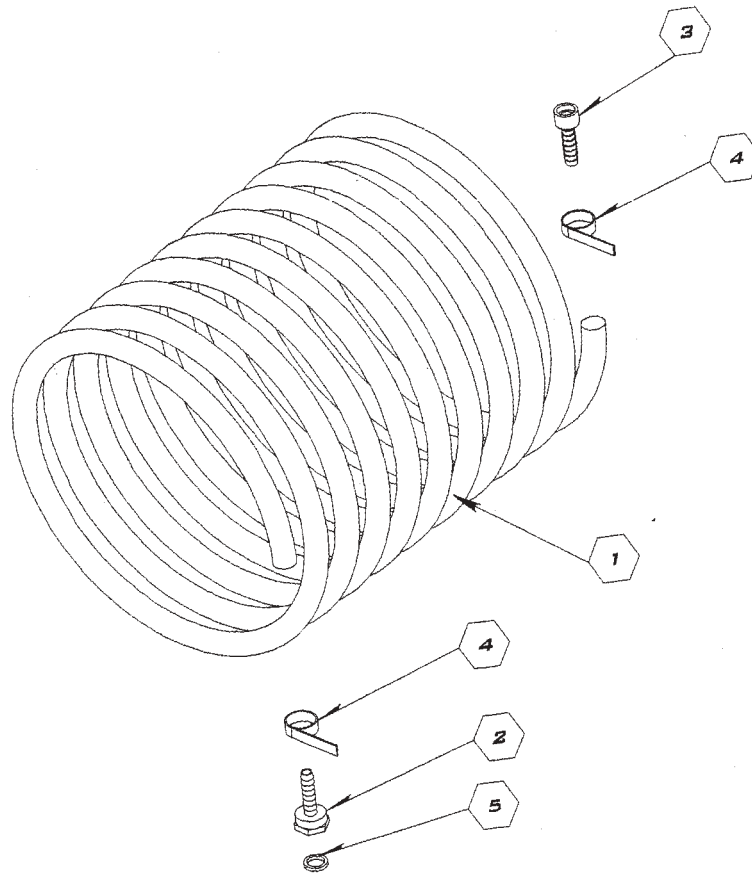
Item Number	Part Number	Description	Qty
	889895	Electric Hose Reel	
1	59-521	Frame	1
2	59-302	Disc W/Gear	1
3	59-300	Disc Crk Side	1
4	59-500	Center Drum	1
5	59-505	Axle Assembly	1
6	59-205	Swivel	1
6	59-228	Pillow Block Mtg, Top	2
8	59-229	Pillow Block Mtg, Bottom	2
9	59-230	Bearing	2
10	59-232	Retaining Ring	4
11	59-510	Pipe Cap	1
12	59-236	Bolt 5/16-18 x 3/4" Long	8
13	59-511	Trim, Per Inch	Specify
15	59-240	Lockwasher 5/16"	8
16	59-241	Flatwasher 3/8"	4
17	59-242	Bolt 3/8-16 x 1" Long	4
18	59-243	Locking Nut 3/8"	4
19	59-247	Motor	1
20	59-305	Pinion	1
21	59-400	Pinion Key/Not Illustrated	1

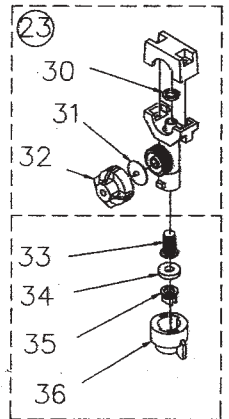
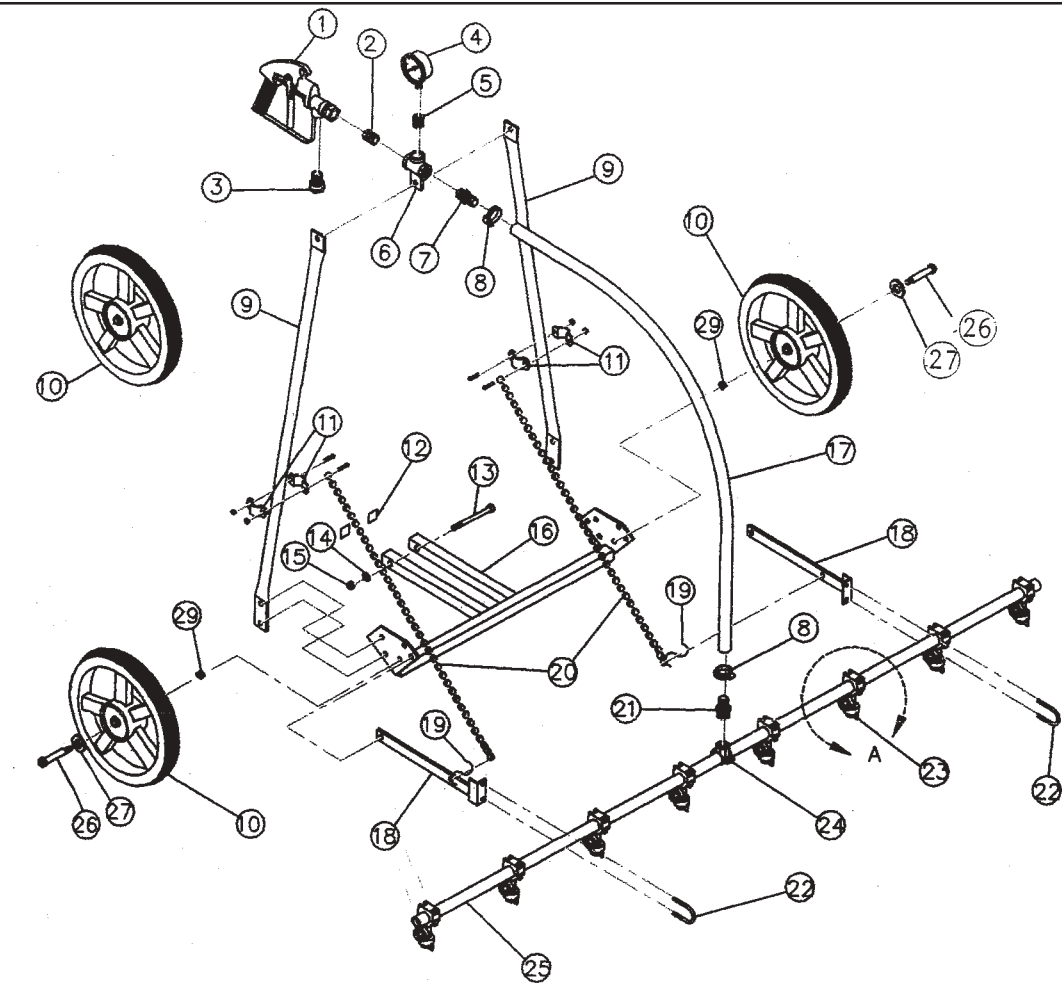


<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	53-917	3/4" Sch 80 Pipe	1
2	52-279	Elbow 3/4" x 90° TxS PVC	1
3	53-906	Pipe 3/4 x 6" Sch 80	1
4	69-250	Nob 5/16"	1
5	11-402	Holder	1
6	55-101	Adapter 3/4 MPT x 3/4" FGHT	1
7	55-050	Gasket 3/4"	1

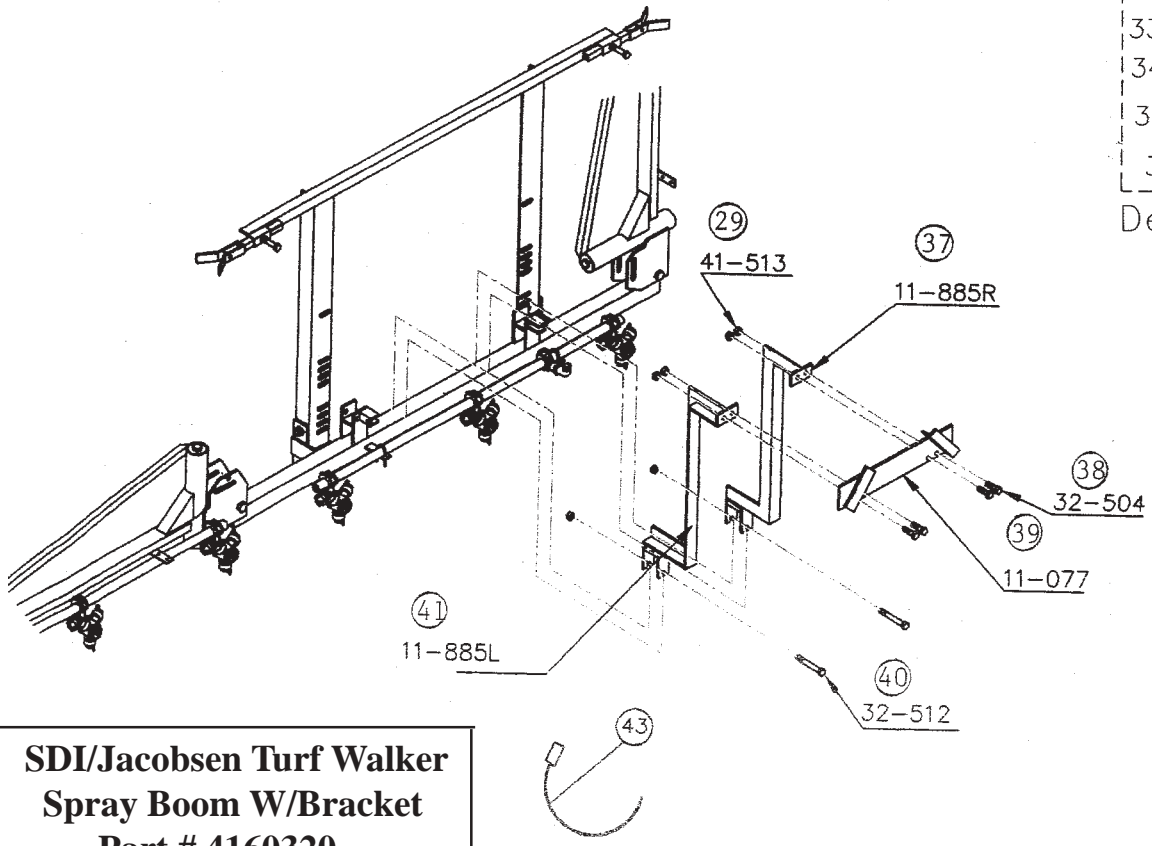
**SDI/Jacobsen Anti-Siphon Filler Assembly
Part # 893304**

<u>Item #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
	889908	25 Ft. Fitted Spray Hose	
	891638	50 Ft. Fitted Spray Hose	
	891376	100 Ft. Fitted Spray Hose	
	891377	150 Ft. Fitted Spray Hose	
	891378	200 Ft. Fitted Spray Hose	
1	81-500	1/2" ID 800 PSI Spray Hose - Quantity based on above	Varies
2	55-211	Female Hose Coupling 3/4" FGHT	1
3	55-212	Male Hose Coupling 3/4" MGHT	1
4	24-203	Hose Clamp JS203	2
5	55-050	Washer 3/4"	1





Detail A

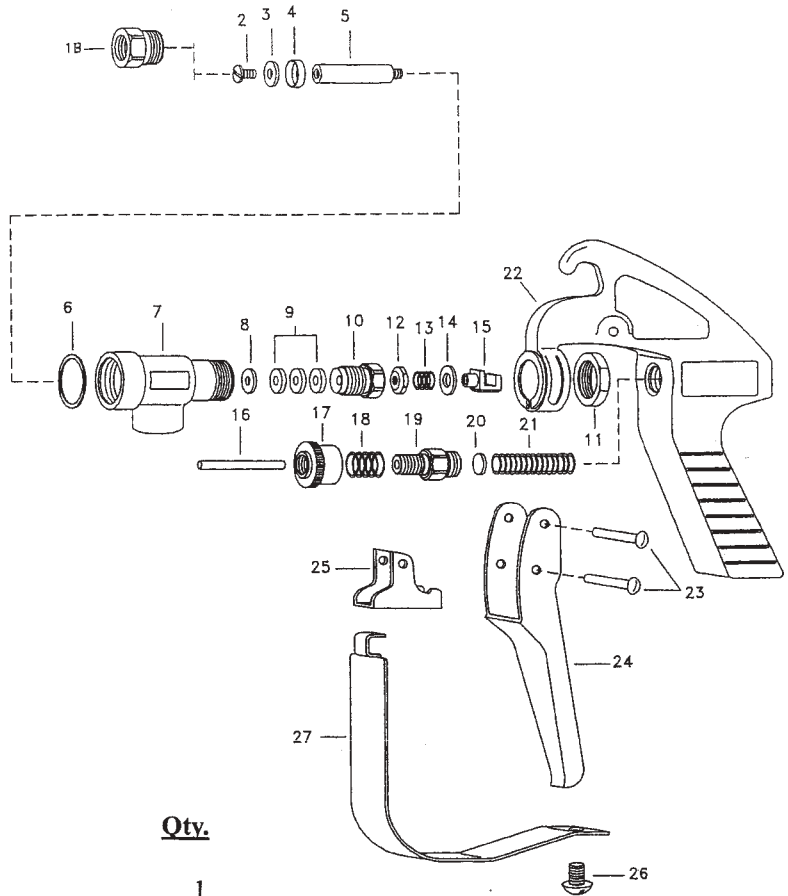


**SDI/Jacobsen Turf Walker
 Spray Boom W/Bracket
 Part # 4160320**

PL303/1107jj

SDI Turf Walker Spray Boom

Item Number	Part Number	Description	Qty
	4160320	Turf Walker Spray Boom W/Carrier Bracket	
1	64-043	Spray Gun	1
2	51-401B	Close Nipple 1/2" Brass	1
3	55-104	Swivel Adapter 1/2 MPT x 3/4" FGHT	1
4	27-100	Pressure Gauge 0-100 PSI	1
5	50-460B	Bushing 1/2 x 1/4" Brass	1
6	11-071	Tee Bracket	1
7	53-093	Adapter 1/2 MPT x 3/4" HB	1
8	24-110	Hose Clamp #10	2
9	11-072	Tubing Frame	2
10	80-029	Five Spoke Wheel 12-1/2 x 1/2" Bore	3
11	64-280	Split Eyelet Clamp	4
12	52-588	End Cap 1" Square	2
13	34-119	Hex Bolt 1/2 x 5"	1
14	42-104	Flatwasher 1/2"	1
15	41-514	Lock Nut 1/2"	1
16	11-069	Frame	1
17	21-093	Hose 3/4" ID 200 PSI, Per Foot	Specify
18	11-073-1	Mounting Bracket, Tube to Axle	2
19	69-238	S-Hook	2
20	69-910	Sash Chain, Per Foot	Specify
21	52-110	Adapter 1/2 FPT x 3/4" HB	1
22	47-103	U-Bolt	2
23	64-411	Spray Nozzle	8
24	52-418	Pipe Saddle Assembly, Brass	1
25	51-672	Boom Tube	1
26	48-047	Shoulder Bolt 1/2 x 2-1/4"	2
27	42-104	Flatwasher 1/2"	2
29	41-513	Lock Nut 3/8" SST	2
30	64-416	O-ring	8
31	64-414	Diaphragm	8
32	64-415	Check Valve	8
33	64-403	Strainer Screen	8
34	64-404	Gasket	8
35	64-523	Tip XR8003VK	8
36	64-406	Black Cap	8
37	11-885R	Right Upright Carrier Bracket	1
38	32-504	Hex Bolt 5/16 x 1-1/4" SST	4
39	11-077	Carrier Bracket	1
40	31-512	Hex Bolt 5/16 x 3-1/4" SST	2
41	11-885L	Left Upright Carrier Bracket	1
43	69-350	Velcro Strap W/Buckle 3/8 x 21"	1



<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Qty.</u>
1B	64-6866-1/2	#43C 1/2 Pipe Adapter	1
●2	N/A	32 x 3/8" Screw, Stainless Steel	6
●3	N/A	Teflon Seat Plate	1
●4	N/A	Seat Holder, Brass or Aluminum	1
●5	N/A	Stainless Steel Stem, Type 416	1
**6	Z-CP7079AL	Aluminum Adapter Gasket	1
7	64-873	Inlet Body, Brass or Aluminum	1
**8	Z-CP6601302SS	Packing Washer Type 302 Stainless Steel	1
●9	N/A	Leather Packing	3
**10	Z-CP19237	Packing Screw, Brass or Aluminum	1
**11	Z-CP6599	Lock Nut, Znc Plated, Brass or Steel	1
●12	N/A	Washer, Stainless Steel, Type 302	1
●13	N/A	Trigger Stop Spring, Stainless Steel	1
●14	N/A	Washer, Steel, Zinc Plated	1
**15	Z-CP6597INP	Steel Trigger Guide, Nickel Plated	1
**16	Z-CP6591SS	Stainless Steel Spring Stud	1
**17	Z-6589IZP	Steel Stop Adj Nut, Zinc Plated	1
**18	Z-CP6594SS	Spring for Stop Adj Nut, SST	1
**19	Z-CP6588IZP	Steel Spring Screw, Zinc Plated	1
**20	Z-CP6592302SS	Spring Guide Washer Type 302 SST	1
**21	Z-CP65931SS	Stainless Steel Main Spring for 43-L	1
**22	Z-CP144771AL	Aluminum Handle Body	1
**23	Z-CP7623IZP	Steel Rivet, Zinc Plated	2
**24	Z-CP6509INP	Steel Trigger, Nickel Plated	1
**25	Z-CP6510INP	Steel Trigger Stop, Nickel Plated	1
**26	Z-CP11757INP	Steel Screw, Nickel Plated	1
**27	Z-CP13798INP	Steel Trigger Guard, Nickel Plated	1

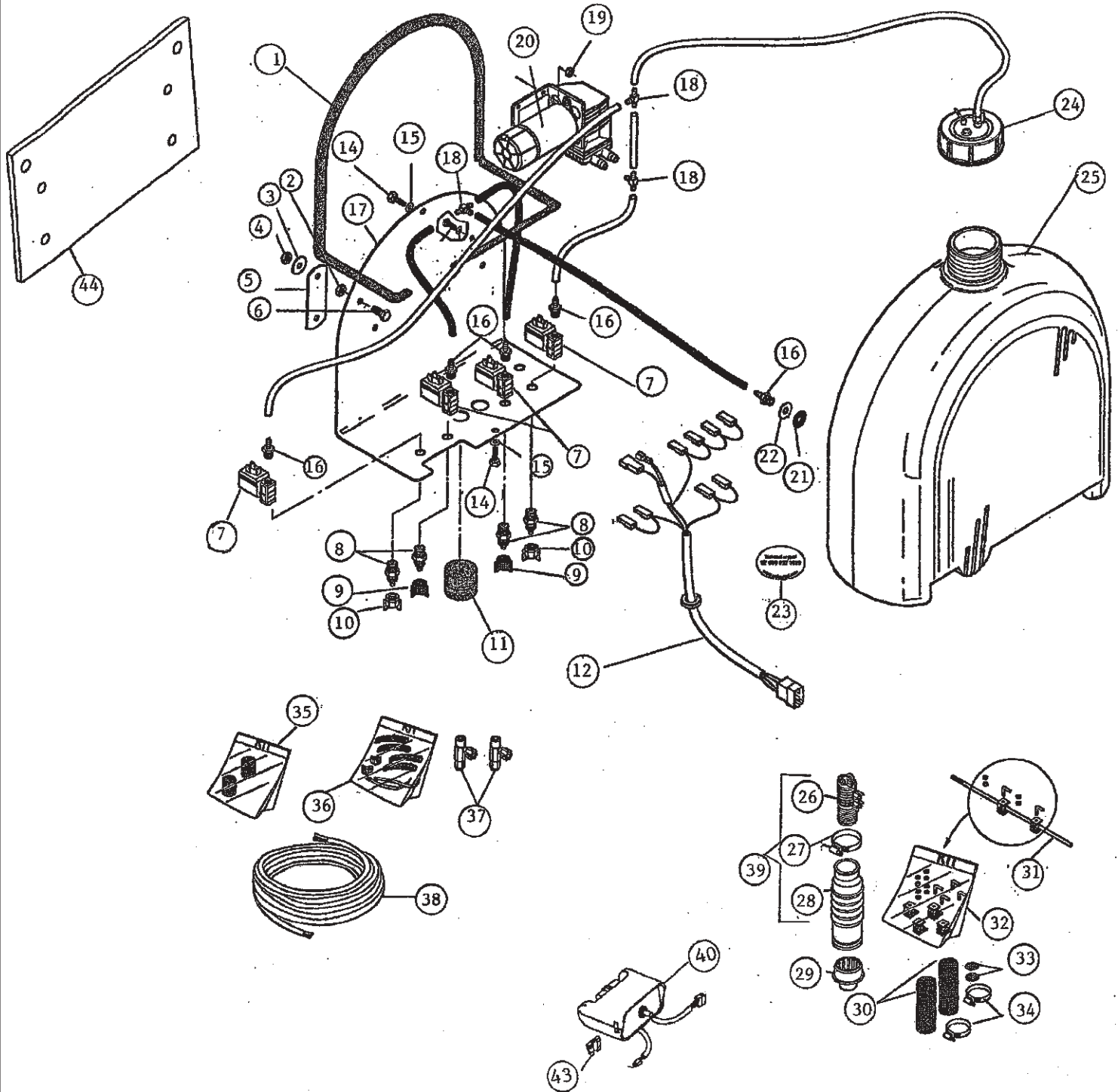
64-192SS No Longer Available
 64-6710-TEF No Longer Available
 CP6863 No Longer Available
 Z-CP6864416SS No Longer Available
 CP6602-LEA No Longer Available
 CP7709-302SS No Longer Available
 Z-CP6595SS No Longer Available
 CP7991-IZP No Longer Available

● Indicates parts available only in Repair Kit
 SDI Part #64-567

**Indicates parts available by special order only and
 are non-returnable-delivery time approximately 10
 working days after receipt of order.

**SDI/Jacobsen Spray Gun for
 Turf Walker Spray Boom
 Part # 889950**

PI12/5/06jh

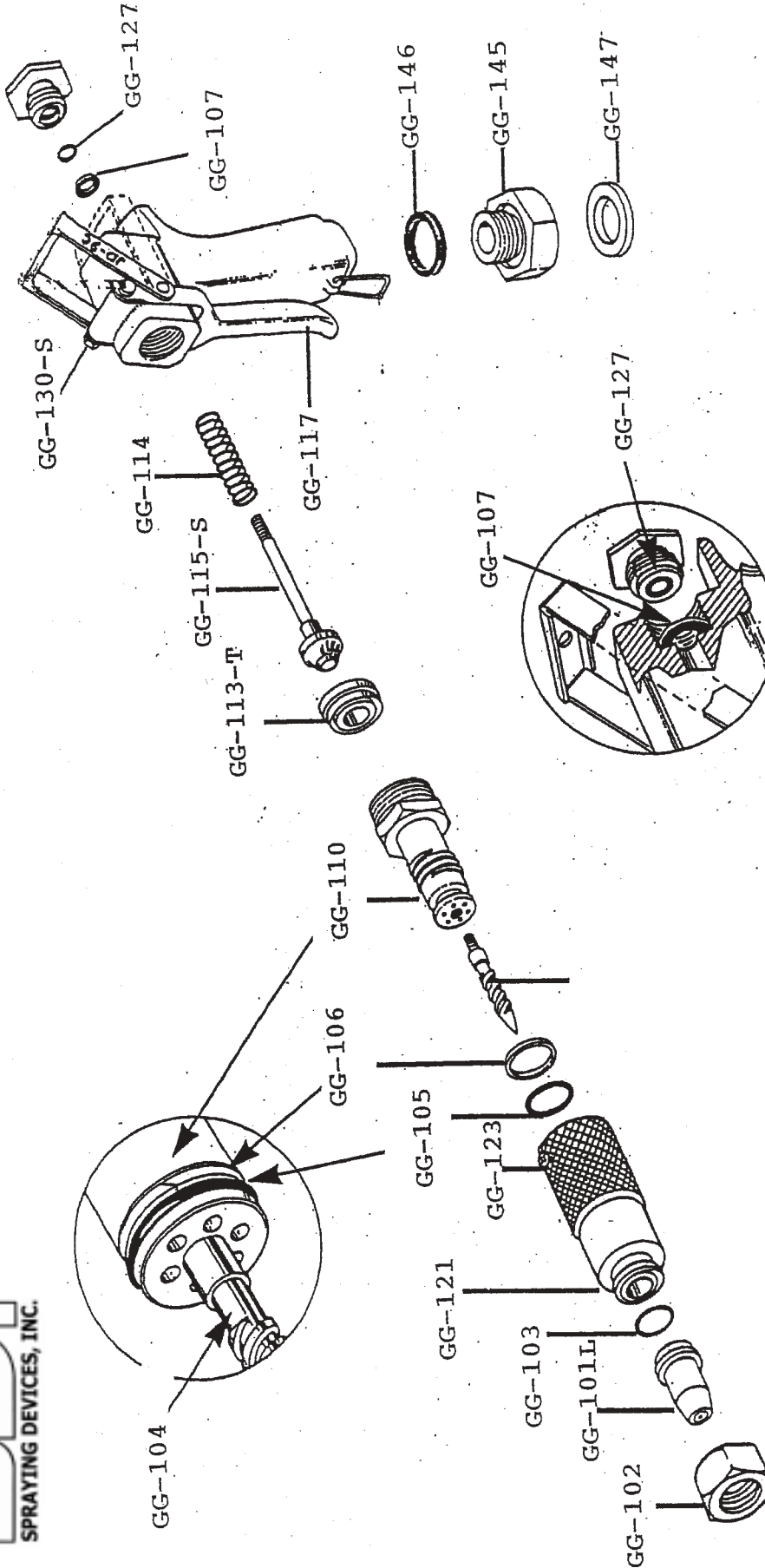


**SDI/Jacobsen Foam
 Marker System 4119053/58**

Rev #3/272/1110jj

SDI Foam Marker System

Item Number	Part Number	Description	Qty
1	61-600	Rubber Gasket	1
2	61-609	Nut	1
3	61-601	Washer	4
4	61-602	Nut M/6	4
5	61-603	Plate	2
6	61-612	Screw	4
7	61-606	Solenoid	4
8	61-127	Tubing Connector 1/8", 6 x 4	6
9	61-136	Blue Fly Nut	2
10	61-133	White Fly Nut	2
11	61-193	Sponge Filter	1
12	61-232	Wiring Harness	1
14	61-116	Bolt	2
15	61-115	Washer	2
16	61-660	Hose Barb	5
17	61-607	Backing Plate	1
18	61-661	Hose Barb	3
19	61-631	Lock Nut M5	2
20	61-630	Air Compressor 12 Volt	1
21	61-624	Rubber Washer	1
22	61-625	Washer	1
23	61-616	Decal	1
24	61-632	Tank Cap	1
25	61-633	One Gallon Tank	1
26	61-172	Foam Mixer	2
27	61-145	Hose Clamp 25-40	2
28	61-199	Drop Tube	2
29	61-226	Adapter/Reducer	2
30	61-187	Sponge	2
31	61-190	Support Post	1
32	61-207	Support Post Kit	1
	64-440	<i>Vari-Clamps - not illustrated, used with 61-207</i>	4
33	61-223	Screen	2
34	61-148	Hose Clamp 32-50	2
35	61-636	Foam Kit	1
36	61-635	Accessory Kit	1
37	61-637	Flow Regulator	2
38	61-250	Air/Liquid Tubing 50 Foot Roll (16 Meters)	1
39	61-253	Foam Nozzle	2
40	18-211	Switch Box for 4119058 Model <i>Only</i>	1
43	61-639	Fuse, 5 AMP for 4119058 Model <i>Only</i>	1
44	11-097-1	Mounting Plate	1



GG-101L	Tip, 8 GPM	GG-115-S	Valve, SS
GG-102	Cap	GG-117	Trigger Assy
GG-103	O-Ring	GG-121	Barrel Adj N
GG-104	Whirler	GG-123	Screw
GG-105	O-Ring	GG-127	O-Ring
GG-106	Back Up Ring	GG-130-S	Locking Nut
GG-107	Packing Gland	GG-145	Garden Hose
GG-110	Adjusting Body	GG-146	Coupling 3/4
GG-113-T	Valve Seat, Teflon	GG-147	Gasket
GG-114	Spring Valve		Washer

SDI/Jacobsen Spray
Gun Part # 889951