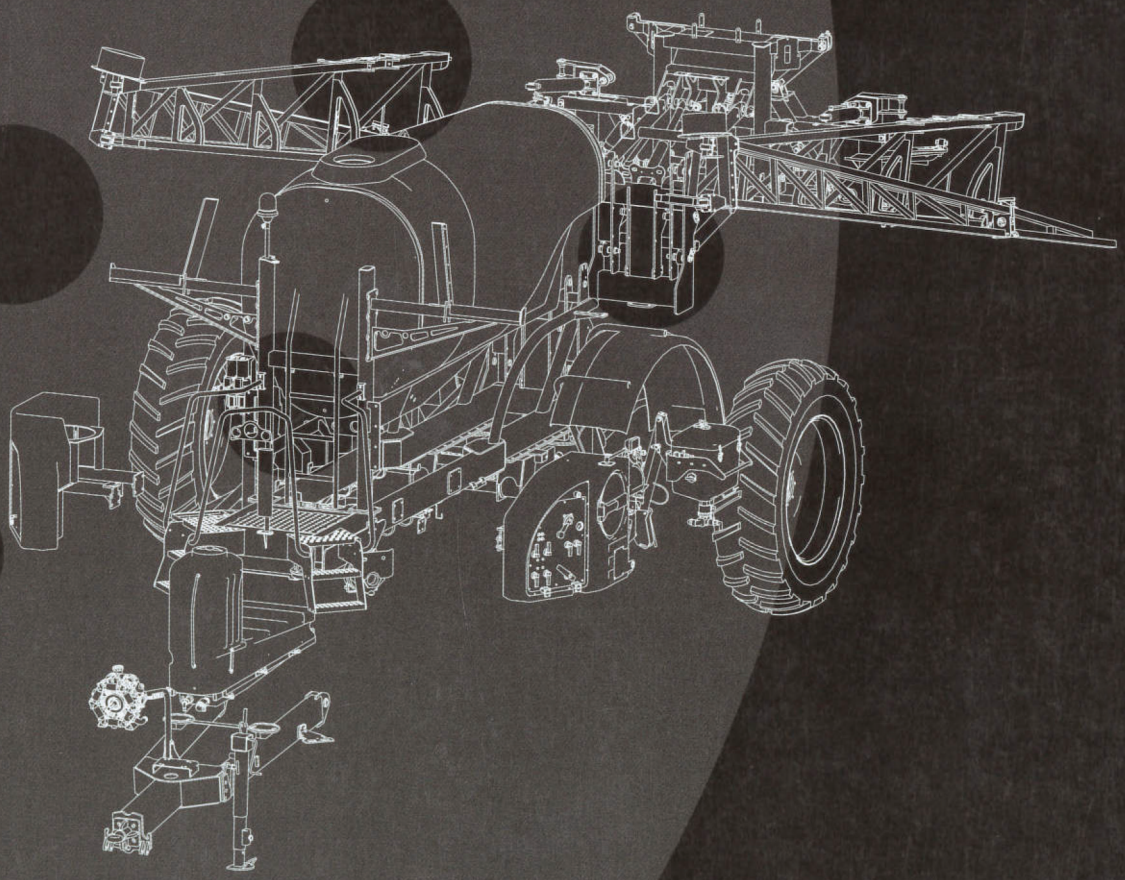
GOLDACRES

CHANGE THE WAY YOU SPRAY



Prairie Evolution Parts Manual

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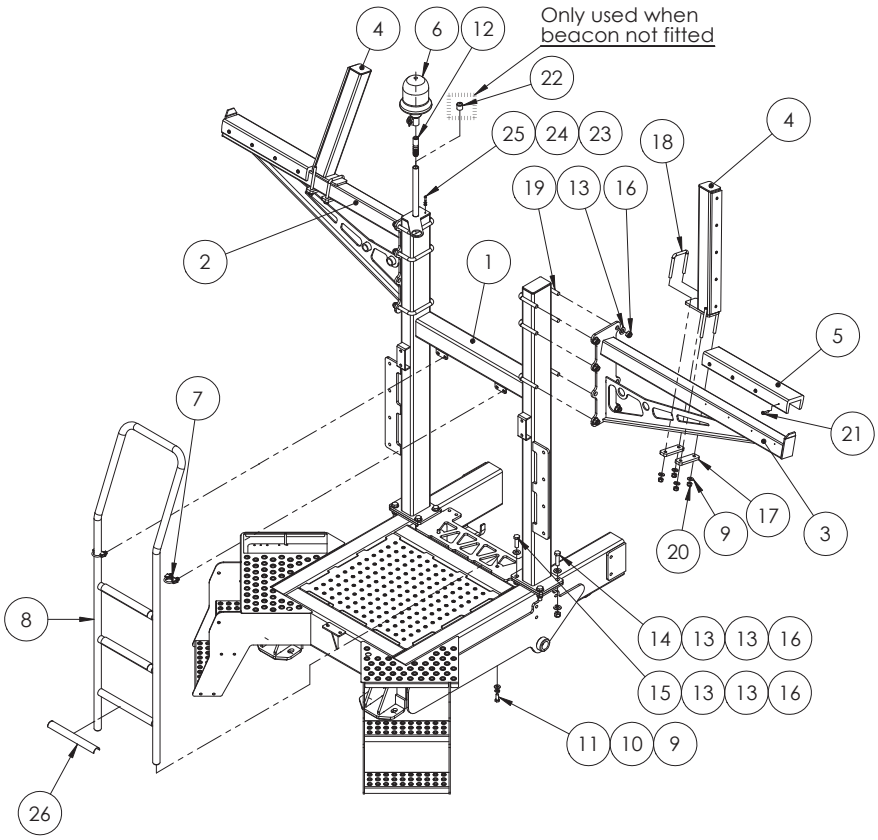
Chapter 1

CHASSIS

H Frame - 4/5/6500lt



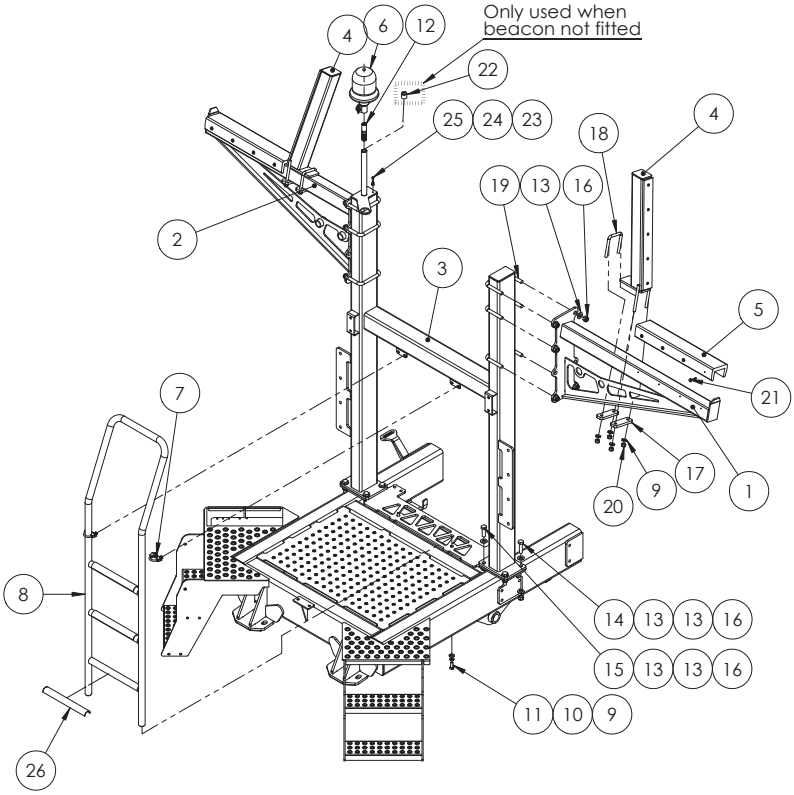
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654181	H-Frame suit praire 4000-6500L 2011	1
2	GA4654211	Boom rest wide 2011 RH	1
3	GA4654212	Boom rest wide 2011 LH	1
4	GA4903051	Preassembled boom rest upright	2
5	GA5014621	Boom rest rubber 550mm	2
6	GA5048975	Orange Beacon Light (see electrics chapter)	1
7	GA5075120	Heavy Duty Exhaust Clamp 36mm (including washers and nuts)	2
8	GA4658160	Ladder suit 2011 Prairie	1
9	GA5000587	M12 WASHER	10
10	GA5000575	M12 Spring washer SS	2
11	GA5000307	M12x30 bolt	2

Continued over page

H Frame 4/5/6500lt

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	GA5020411	Beacon mount screw on	1
13	GA5001009	Flat washer M16 HD	28
14	GA5000939	M16x60 bolt	4
15	GA5000931	M16x50 bolt	4
16	GA5001029	M16 Nyloc nut	20
17	F70107A	18mt ram bracket	4
18	GA5011259	M12 x 76mm x 110mm Square Top U Bolt	2
19	GA5011277	M16x127x110 Square Top U Bolt	6
20	GA5012461	M12 Nyloc nut Z/P	8
21	GA5000707	Tek Screw 14G x 40mm Gal	16
22	GA5052650	Plastic end cap 25.4x25mm	1
23	GA5004437	M6 SS Washer	1
24	GA5004447	M6 Spring washer SS	1
25	GA5004053	Bolt BHCS S'Steel M6x20	1
26	GA5069350	Anti slip ladder rung cover dia 33.7x300 black	3

H Frame - 7/8500lt



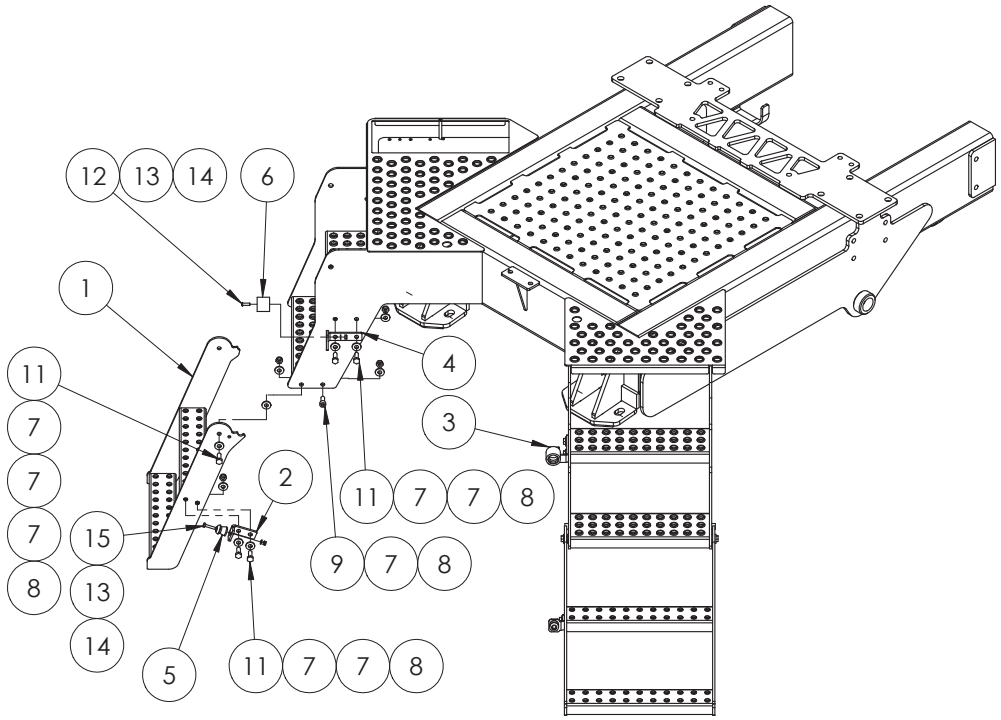
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654210-GA4654215	Boom rest advance MK2 LH	1
2	GA4654210-GA4654215	Boom rest advance MK2 RH	1
3	GA4654182	H-Frame suit praire 7500L 2011	1
4	GA4903051	Preassembled boom rest upright	2
5	GA5014621	Boom rest rubber 550mm	2
6	GA5048975	Orange Beacon Light (see electrics chapter)	1
7	GA5075120	Heavy Duty Exhaust Clamp 36mm (including washers and nuts)	2
8	GA4658160	Lader suit 2011 Prairie	1
9	GA5000587	M12 WASHER	10
10	GA5000575	M12 Spring washer SS	2
11	GA5000307	M12x30 bolt	2
12	GA5020411	Beacon mount screw on	1
13	GA5001009	Flat washer M16 HD	28
14	GA5000939	M16x60 bolt	4
15	GA5000931	M16x50 bolt	4
16	GA5001029	M16 Nyloc nut	20
17	F70107A	18mt ram bracket	4
18	GA5011259	M12 x 76mm x 110mm Square Top U Bolt	2

Continued over page

H Frame - 7/8500lt

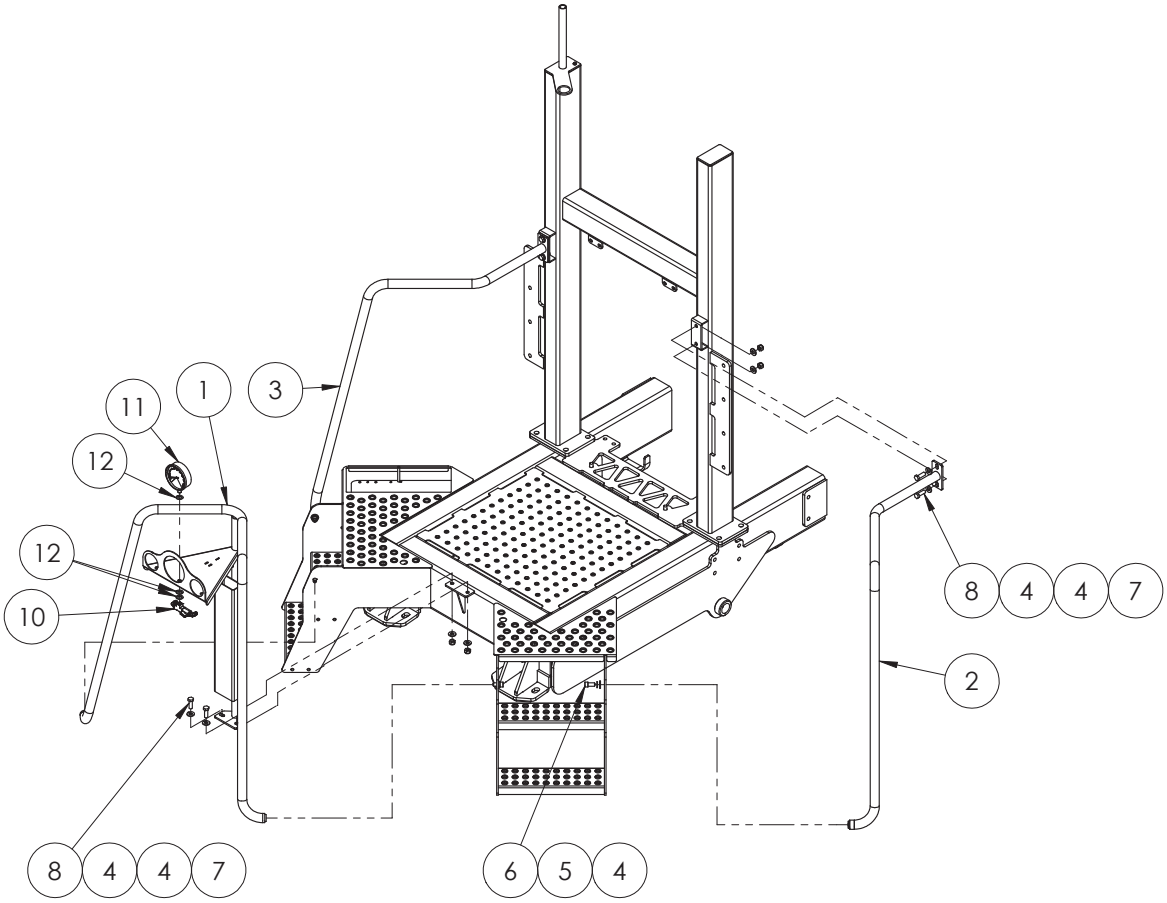
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
19	GA5011277	M16x127x110 Square Top U Bolt	6
20	GA5012461	M12 Nyloc nut Z/P	8
21	GA5000707	Tek Screw 14G x 40mm Gal	16
22	GA5052650	Plastic end cap 25.4x25mm 1	
23	GA5004437	M6 SS Washer	1
24	GA5004447	M6 Spring washer SS	1
25	GA5004053	Bolt BHCS S'Steel M6x20	1
26	GA5069350	Anti slip ladder rung cover dia 33.7x300 black	3

Front Steps



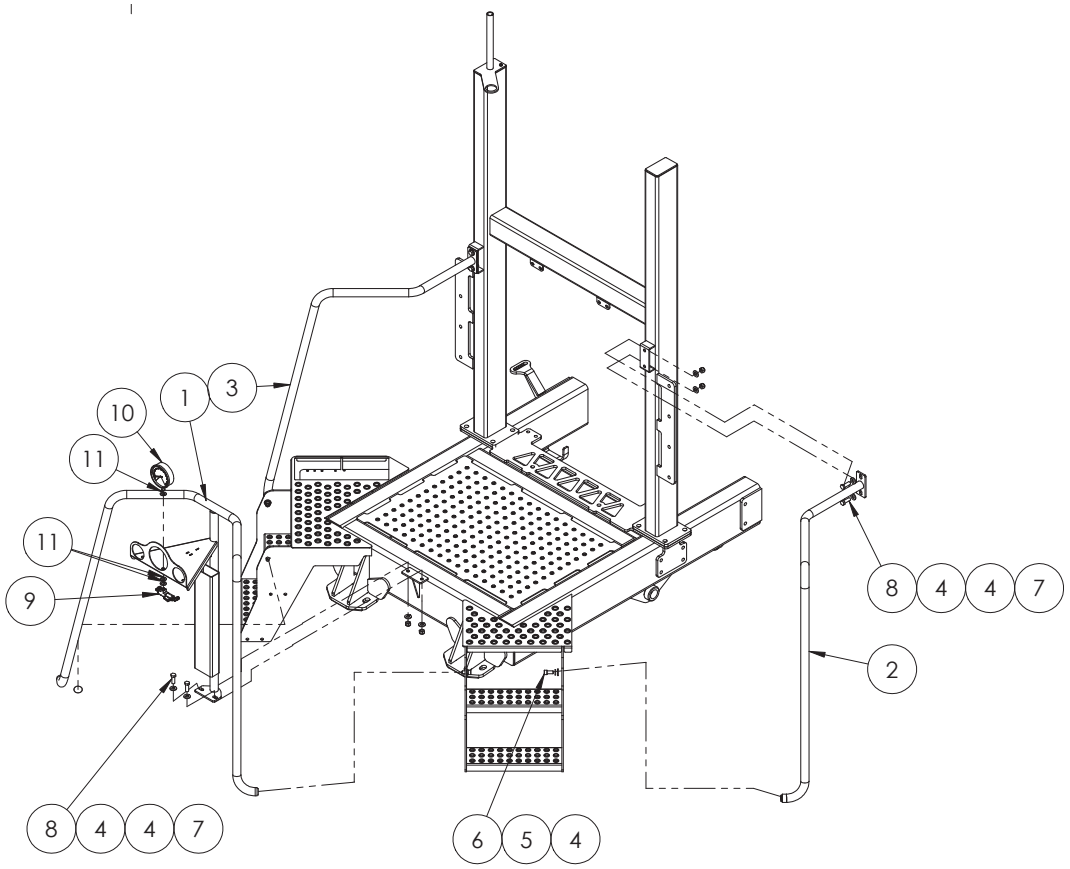
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654582	Step lower narrow suit prairie advance	2
2	GA4522617	Latch plate suit prairie EF narrow step	2
3	F70684A	Upper catch mounting plate LH	1
4	F70654A	Upper catch mounting plate RH	1
5	GA5011607	Male rubber door holder	2
6	GA5008629	Female rubber door holder	2
7	GA5000117	Washer 10mm SS Heavy duty	32
8	GA5000141	M10 Nyloc Nut	16
9	GA5006127	M10x25 Unbrako	4
10	GA5006071	Bolt M10 x 40 grd 10.9 ZP	3
11	GA5065455	Bolt Gr8.8 M10x30	9
12	GA5004053	Bolt BHCS S'Steel M6x20	2
13	GA5004437	M6 SS Washer	4
14	GA5048115	Nut nyloc M6	4
15	GA5004079	M6x30 bolt	2

Hand Rails - 4/5/6500lt models



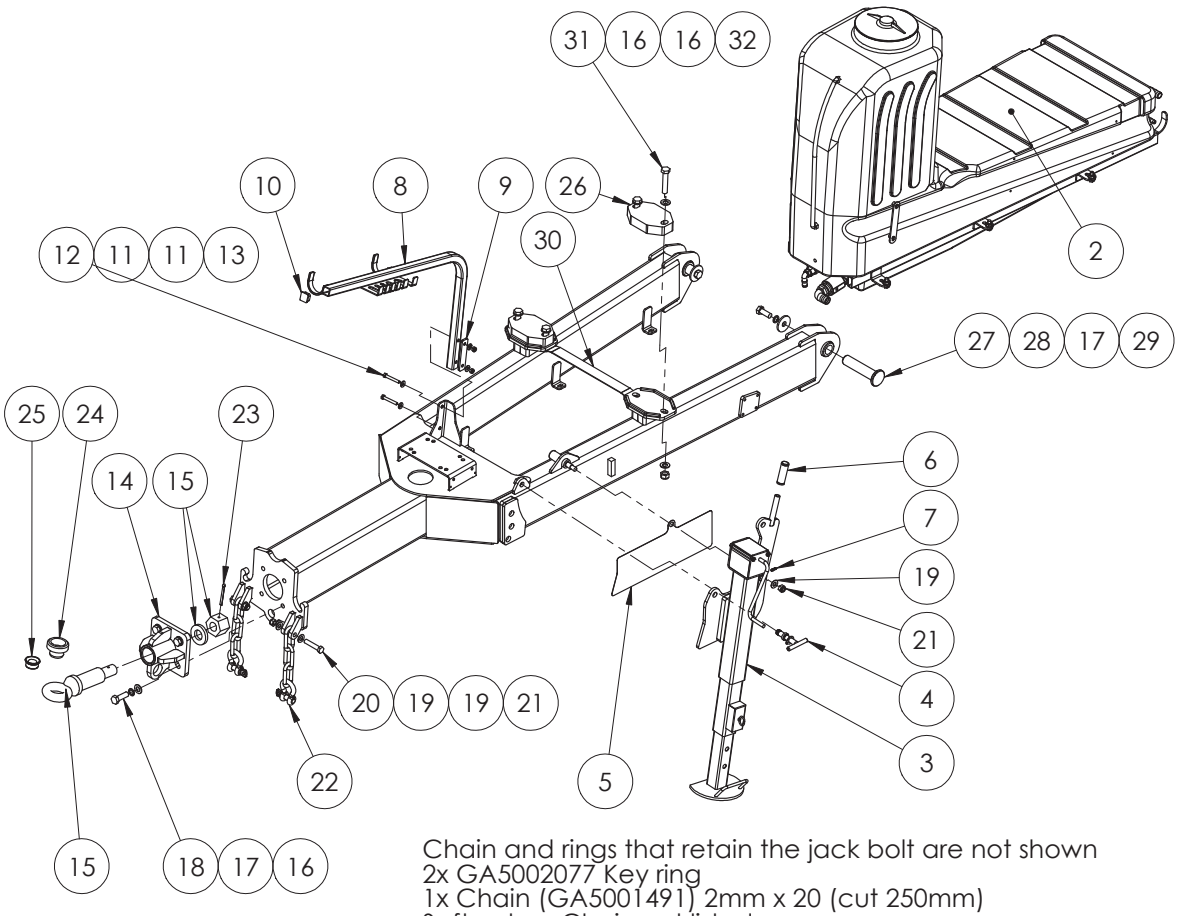
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654651	Handrail middle 08 onward	1
2	GA4654645	LH side hand rail	1
3	GA4654640	RH side hand rail	1
4	GA5000587	M12 WASHER	18
5	GA5000575	M12 Spring washer SS	6
6	GA5000297	SHCS M12 x 25 ZP	4
7	GA5012461	M12 Nyloc nut Z/P	6
8	GA5000311	M12x35 Bolt	6
9	GA5000307	M12x30 bolt	2
10	GA4922100	Front pressure gauge pressure relief subassem	1
11	GA4948460	Pressure gauge large face160PSI	1
12	GA5017641	1/2" thin flat washer	3
13	GA5004437	M6 SS Washer	1
14	GA5004447	M6 Spring washer SS	1
15	GA5004053	Bolt BHCS S'Steel M6x20	1

Hand Rails - 75/8500lt models



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654652	Handrail	1
2	GA4654645	LH side hand rail	1
3	GA4654640	RH side hand rail	1
4	GA5000587	M12 WASHER	16
5	GA5000575	M12 Spring washer SS	4
6	GA5000297	SHCS M12 x 25 ZP	4
7	GA5012461	M12 Nyloc nut Z/P	6
8	GA5000311	M12x35 Bolt	6
9	GA4922100	Front pressure gauge pressure relief subassem	1
10	GA4948460	Pressure gauge large face 160PSI	1
11	GA5017641	1/2" thin flat washer	3
12	GA5004437	M6 SS Washer	1
13	GA5004447	M6 Spring washer SS	1
14	GA5004053	Bolt BHCS S'Steel M6x20	1

Pull - 4/5/6500lt models



Chain and rings that retain the jack bolt are not shown
2x GA5002077 Key ring
1x Chain (GA5001491) 2mm x 20 (cut 250mm)
Saftey tow Chain not listed
11Links GA5065030

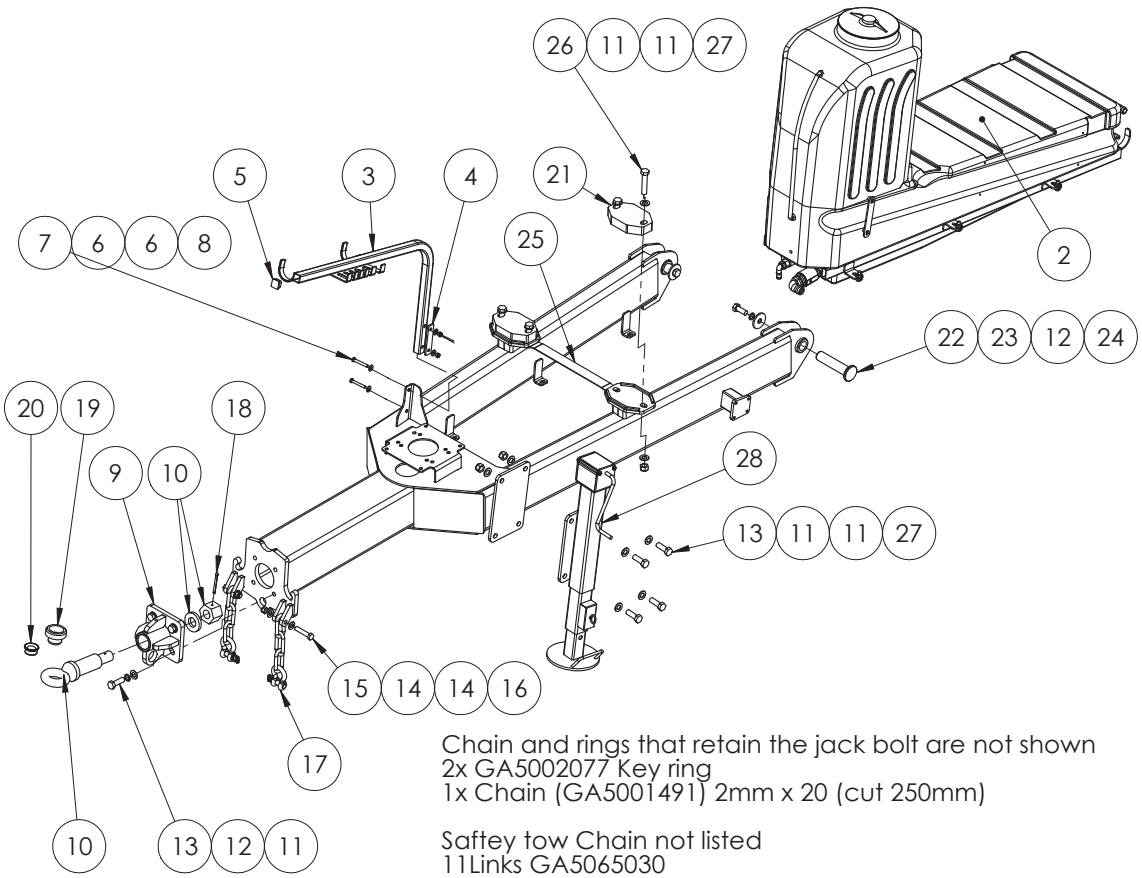
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652446	Pull	1
2	GA4901125-EF Tank	Tank, 400 flush water belly tank with frame assembly. (Refer to Chapter 3 for further information on the flush tank).	1
3	GA4656436	Jack	1
4	GA4656437	Jack T bolt	1
	GA5047460	Pin	1
5	GA4522297	Jack wear plate	1
6	GA5066700	Handle bar grip suit jack handle black	1
7	GA5009639	Grease Nipple 1/4" UNF Long	1
8	GA4657665	Hose support arm	1
9	GA4522926	Hose support backing plate	1
10	GA5002911	35x35 tube insert	1
11	GA5000117	Washer 10mm SS Heavy duty	4
12	GA5011163	M10x70 bolt ZP G8.8	2
13	GA5000141	M10 Nyloc Nut	2
14	GA4652486	Welded towing eye - angled	1
15	GA5016243	Swivel Tow Eye	1
16	GA5001739	M20 Heavy Duty Flat Washer	12

Continued over page

Pull - 4/5/6500lt models

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA5001721	M20 Spring Washer	6
18	GA5011333	M20x60 bolt	4
19	GA5001009	Flat washer M16 HD	5
20	GA5011307	M16x80 Bolt	2
21	GA5001029	M16 Nyloc nut	3
22	GA5000667	Bow Shackle	2
23	GA5051385	M8 x 90mm Split Pin	1
24	GA4582455	Spacer Bush Tow Eye suit 1 1/2"pin	1
25	GA5075075	Towing eye bush	1
26	GA5061070	Spacer Pull EF	2
27	PCH-019MACH	Large Chassis Pin	2
28	L073A	Washer suit drawbar pin	2
29	GA5011319	Bolt M20 x 50 ZP	2
30	GA4522385	Prairie EF Belly tank retaining strap	1
31	GA5048355	M20x100 bolt	4
32	GA5048125	M20 Nyloc nut	4

Pull - 75/8500lt models



Chain and rings that retain the jack bolt are not shown
2x GA5002077 Key ring
1x Chain (GA5001491) 2mm x 20 (cut 250mm)

Saftey tow Chain not listed
11Links GA5065030

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652452	Pull Evo 7500 and 8000L	1
2	GA4901125-EF	Tank, 400 flush water belly tank with frame. (Refer to Chapter 3 for further information on the flush tank)	1
3	GA4657665	Hose support arm suit EF pull	1
4	GA4522926	EF pull hose support backing plate	1
	GA5047460	Pin	1
5	GA5002911	35x35 tube insert	1
6	GA5000117	Washer 10mm SS Heavy duty	4
7	GA5011163	M10x70 bolt ZP G8.8	2
8	GA5000141	M10 Nyloc Nut	2
9	GA4652486	Welded towing eye - angled	1
10	GA5016243	Swivel Tow Eye (minus bush)	1
11	GA5001739	M20 Heavy Duty Flat Washer	20
12	GA5001721	M20 Spring Washer	6
13	GA5011333	M20x60 bolt	8
14	GA5001009	Flat washer M16 HD	4
15	GA5011307	M16x80 Bolt	2
16	GA5001029	M16 Nyloc nut	2

Continued over page

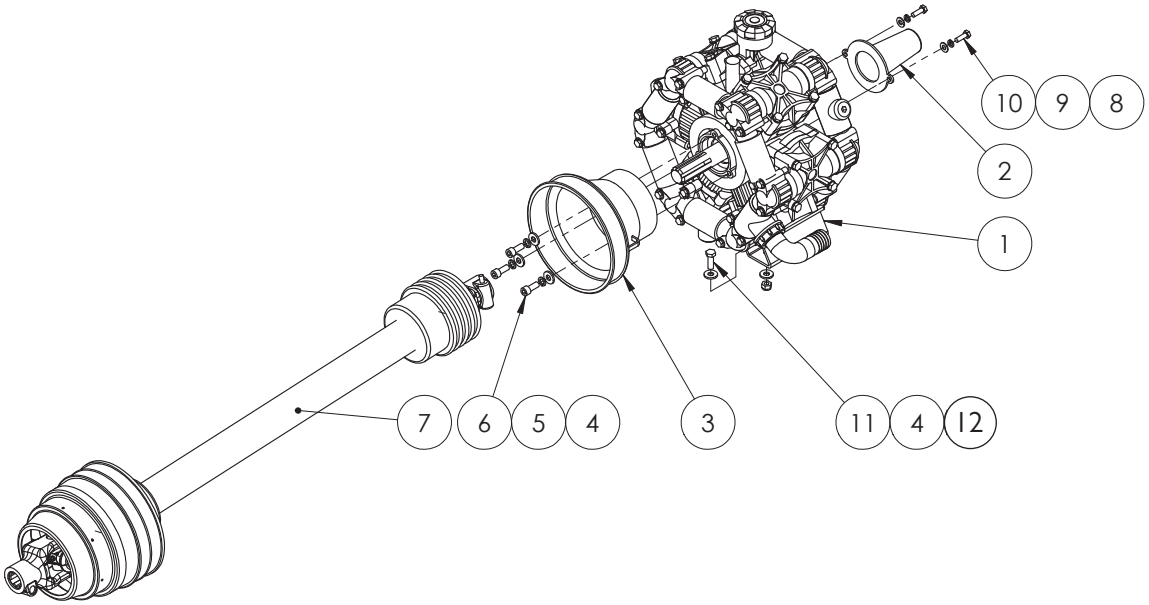
Pull - 75/8500lt models

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA5000667	Bow Shackle	2
18	GA5051385	M8 x 90mm Split Pin	1
19	GA4582455	Spacer Bush Tow Eye suit 1 1/2" pin	1
20	GA5075075	Towing eye bush	1
21	GA5061070	Spacer Pull EF	2
22	PCH-019MACH	Large Chassis Pin	2
23	L073A	Washer suit drawbar pin	2
24	GA5011319	Bolt M20 x 50 ZP	2
25	GA4522385	Prairie EF Belly tank retaining strap	1
26	GA5048355	M20x100 bolt	4
27	GA5048125	M20 Nyloc nut	8
28	GA4656439	Jack Prairie advance 8000L	1

Chapter 2

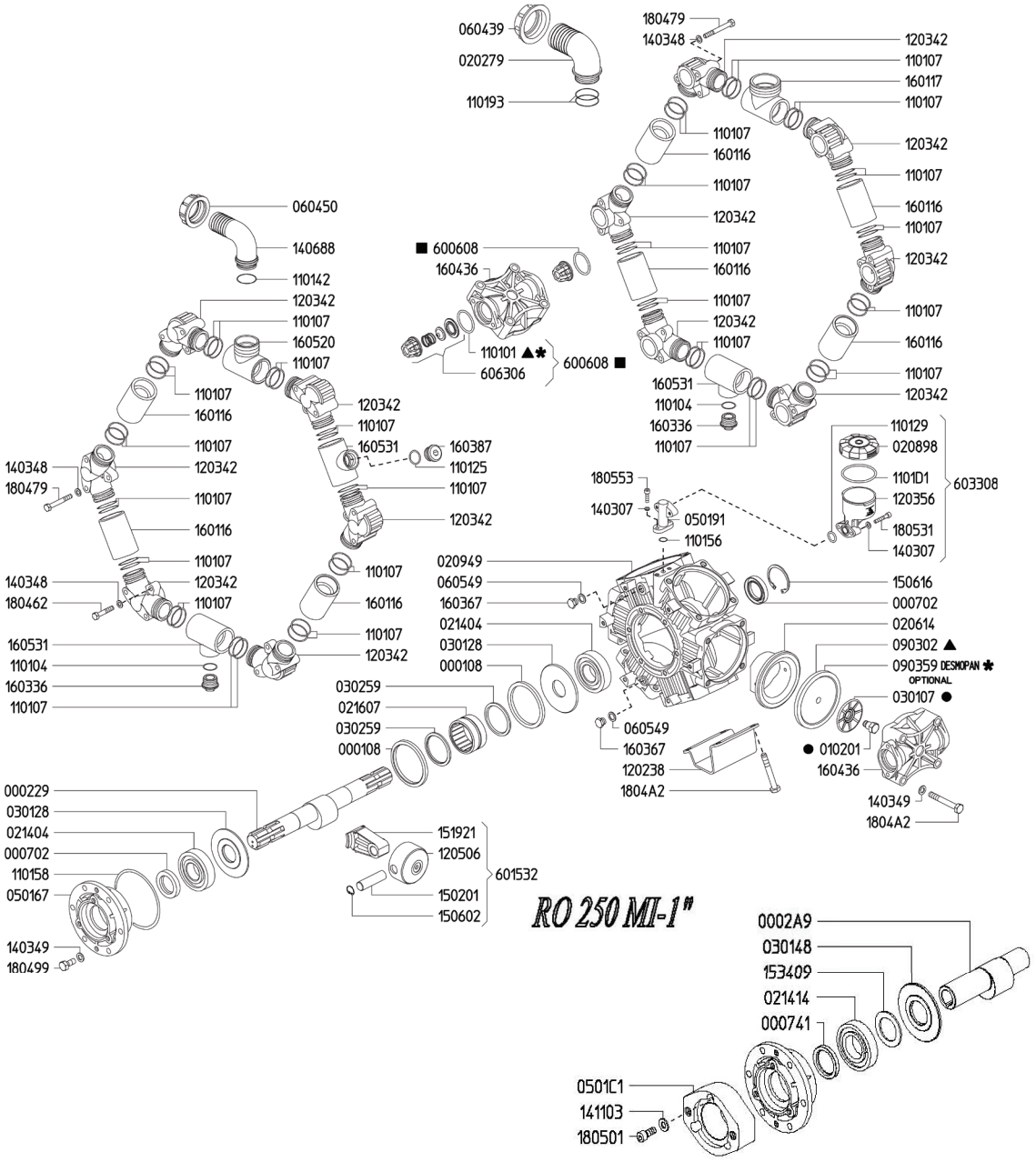
PUMPS

Pump - RO250 PTO Shaft drive



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RO2502C	RO 250 pump pto drive	1
2	GA5013499	PTO protector to suit rear of 2C pumps	1
3	7650-7202121902	PTO Cover	1
4	GA5000117	Washer 10mm SS Heavy duty	11
5	GA5000137	Washer 10mm Spring S/S	3
6	GA5006127	M10x25 Unbrako	3
7	GA5013511	PTO drive shaft wide angle 1.05m	1
	7650-7202121913	Standard shaft cover	1
8	GA5004883	Washer 8mm HD	2
9	GA5004919	M8 Spring washer SS	2
10	GA5004711	M8x25 bolt	2
11	GA5065455	Bolt Gr8.8 M10x30	4
12	GA5000141	M10 Nyloc Nut	4

Pump - RO250 Pump Breakdown



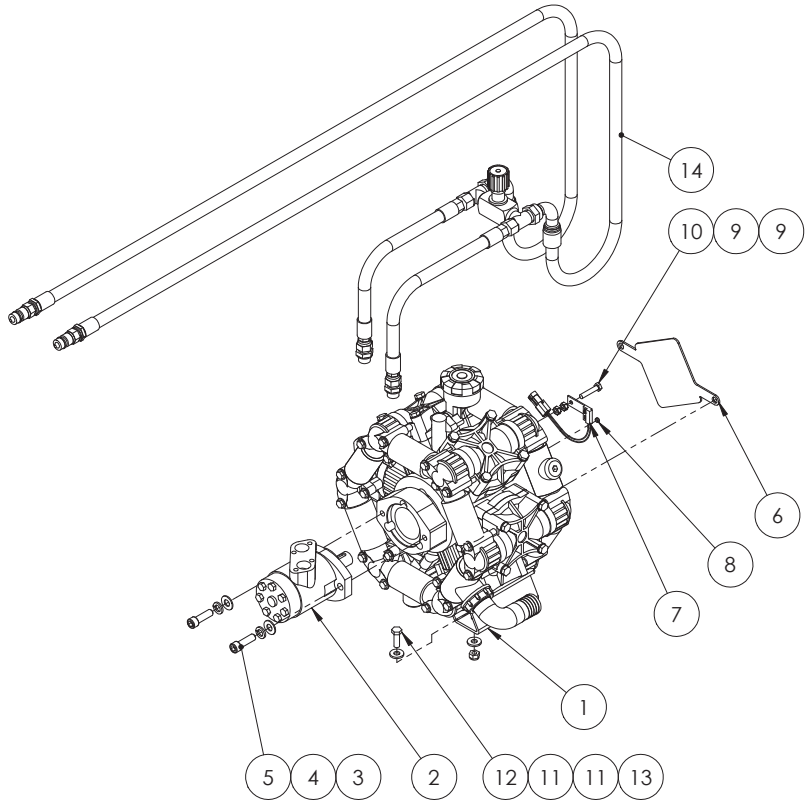
Part No	Description
000108	Retainer Ring “RO 160”
000229	Shaft “Beta/RO 160/250” (9) TS 2C
0002A9	Shaft “RO 160/250” (9) MI D.1”
000702	Oil Seal D.35x55x10
000741	Oil Seal D.40x55x7
010201	Diaphagm Bolt “RO/Kappa 120”
020279	Hose Barb D.50
020614	Sleeve D.75 “RO 110/160/250”

Part No	Description
020898	Oil Reservoir Cover
020949	Crankcase “RO 210/250”
021404	Ball Bearing 6307 D.35x80x21
021414	Ball Bearing D.40x80x18 6208
021607	Roller Bearing NK55-35 D.55x68x35
030107	Diaphagm Disc “RO/Kappa 120/150”
030128	Rod Disc “RO 160/180/210/250”

Part No	Description
030148	Rod Disc “RO 160/250” OMR80
030259	Rod Spacer “RO 160/250”
050167	Bushing Flange “Omega 135/RO 160/250”
050191	Oil Cup Support Flange “RO 210/250”
0501C1	Flange “RO 160/250” MI
060439	Plastic Nut G2”
060450	Plastic Nut G1” 1/2
060549	Gasket D.13x19x1,5
090302	Piston Diaphagm “RO 70...250” D.116
090307	Piston Diaphagm Viton “RO 70...250” D.116
110101	O-Ring D.39,69x3,53 (RIF . 144)
110104	O-Ring D.20,63x2,62 (RIF . 128)
110107	O-Ring D.34,52x3,53 (RIF . 4137)
110125	O-Ring D.20,22x3,53 (RIF . 4081)
110129	O-Ring D.16,20x3 (RIF . 222162)
110142	O-Ring D.33,00x3 (RIF . 3832)
110156	O-Ring D.12,37x2,62 (RIF . 3050)
110158	O-Ring D.110,0x2,5 (RIF . 115110)
110193	O-Ring D.42,52x2,62 (RIF . 3168)
1101D1	O-Ring D.58,42x2,62 (RIF . 3231)
120238	Base Plate “RO 210/250”
120342	Inlet-Outlet Elbow “RO 210/250”
120356	Oil Reservoir
120506	Aluminium Plunger D.75 “RO/ Kappa 120”
140307	Washer D.6,4x12x1,6
140348	Washer D.8,4x16x1,6
140349	Washer D.10,5x18x1,6
140688	Hose Barb D.38
141103	Schnorr Washer D.10
150201	Pin D.18x64
150602	Sanp Ring D.18
150616	Snap Ring D.55
151921	Connecting Rod “RO 210/250”
153409	Disc “RO 160/250” MI
160116	Inlet-Outlet Hose “RO 210/250”
160117	Suction Hose G2” M “RO210/250”
160336	Plug G3/4
160367	AVP Plug G1/4
160387	Plug G3/4
160436	Head “RO 110...250” RED
160520	Outlet Hose G1”1/2 M “RO 210/250”
160531	Inlet-Outlet Hose G3/4” F “RO 210/250”
180462	Hex Screw M8x30 UNI5739 DACROMET
180479	Hex Screw M8x70 UNI5737 DACROMET
180499	Hex Screw M10x25 UNI5739 DACROMET
1804A2	Hex Screw M10x75 UNI5737 DACROMET
180501	Allen Screw M10x25 UNI5931
180531	Allen Screw M6x30 UNI5931 DACROMET
180553	Allen Screw M6x22 UNI5931 DACROMET
600608	Valve Assy “RO/Omega/Beta”
601532	Rod Assy “RO 250” D.75
603308	Oil Reservoir Assy “RO”
606306	Valve Assy “RO 70...250” W/T
	O-Ring

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	Kit-RO250-C	UDOR RO250 pump repair kit	1
	Kit-RO250-MI	UDOR RO250 pump repair kit suit hydraulic drive	1

Pump - RO250 MI Hydraulic Drive



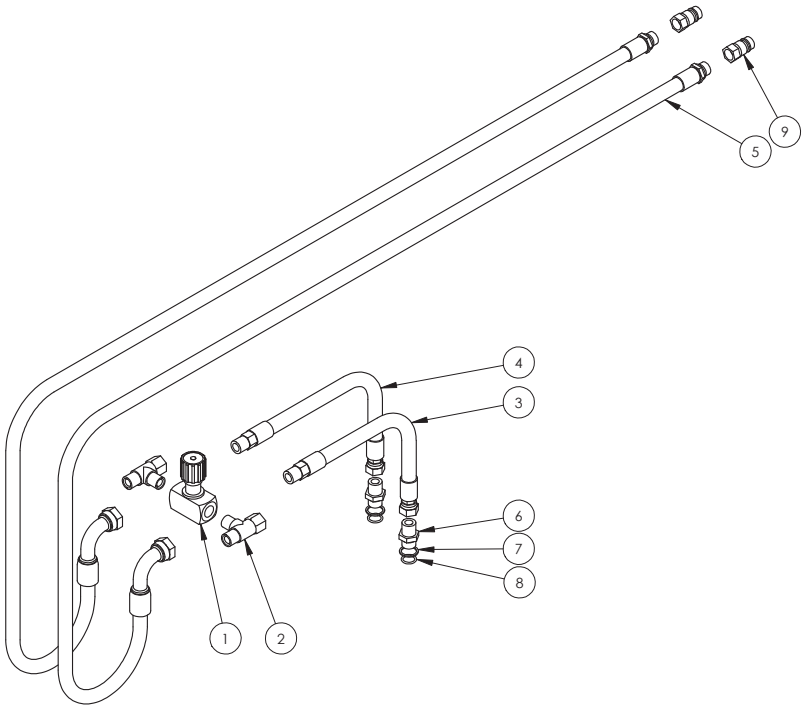
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RO250MI	RO250 Pump Hyd Drive	1
2	GA5009525	motor hydraulic 60cc/rev	1
3	GA5000587	Washer HD ZP 12mm	2
4	GA5000575	M12 Spring washer SS	2
5	GA5000321	M12x40 unbrako	2
6	pump cover-RO250	Safety cover over RO 250 pump	1
7	1170159929	Pump RPM sensor with Connector suit 4400/4070	1
8	GA5016169	Super Magnet	1
9	GA5011499	GA5052360 M8 weld Nut	2
10	GA5048655	M8x40 bolt	1
11	GA5000117	Washer 10mm SS Heavy duty	8
12	GA5065455	Bolt Gr8.8 M10x30	4
13	GA5000141	M10 Nyloc Nut	4
14	GA5067186	Hose assembly kit	1

Pump - RO320 MI Hydraulic Drive

Drawing Not Available

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	RO320MI	RO320 Pump Hyd Drive	1
		Motor hydraulic 80cc/rev 25.0mm	1
	GA5020210	Keyway	
	GA5000319	Set Screw M12x40 ZP GR8.8	
	GA5000575	Washer 12mm Spring SS	
	1170159929	Kit shaft sensor	
	GA5016169	Super magnet	
	F70253A	Pump sensor mounting bracket (3mm SS)	
	GA5065455	Bolt M10 x 30 ZP GR8.8	
	GA5000141	Nut M10 Nyloc ZP	
	GA5000117	Washer 10mm Flat SS Heavy Duty	
	GA5000303	Bolt M12x30 ZP GR8.8	
	GA5012461	Nut M12 Nyloc ZP	
	GA5000577	Washer 12mm Flat SS	
	GA5002627	Washer 3/8 x 1 1/8	
	L082A	Elbow 2 female to 2.5 hose tail	

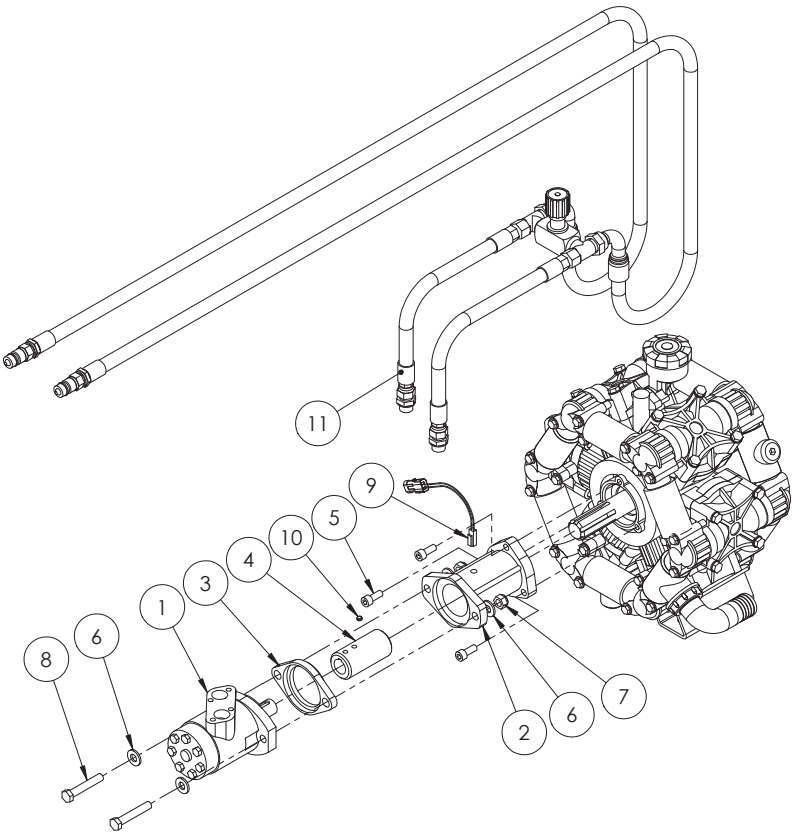
Hydraulic hose assembly kit



GA5067185-EF Hydraulic Drive Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018221	1/2" Needle Valve	1
2	S167-080808	TEE 1/2 BSPT M x M F	2
3	GA4922110	Short hydraulic pump hose	1
4	GA4922115	Short hydraulic pump hose	1
5	GA4922105	long hyd pump hose	2
	GA5067186-03	Hydraulic Line for Spray Pump	1
	T226-1212	Coupling 3/4" hose to 90 deg short bend 3/4" BSPP swivel female	1
6	S75-08-1	1/2" BSPP x 1/2" BSPT Hydraulic Fitting	2
7	36B-08	1/2" BSPP Retaining Ring	2
8	RO-BP08	1/2" BSPP O-Ring	2
9	R81-08M	Quick release coupling male 1/2"	2
	GA5052365	Green boot to suit hydraulic end	2

Hydraulic drive

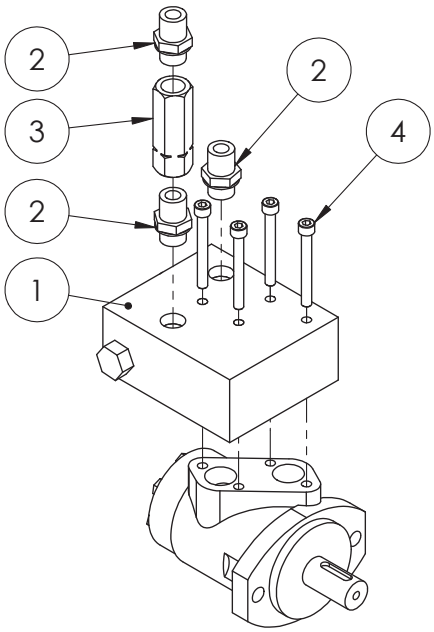


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047515	Motor hydraulic 80cc/rev	1
2	F700416600 Adaptor	Adaptor hydraulic motor to UDOR	1
3	GA4552100	Plate spacer suit UDOR pump adapter	1
4	F700416600 - socket	Hyd motor to pto converter with 2xgrub screws	1
5	GA5006127	M10x25 Unbrako	3
6	GA5000587	M12 WASHER	4
7	GA5012461	M12 Nyloc nut Z/P	2
8	GA5000347	M12x70 HT ZP Bolt	2
9	1170159929 - cutdown	Pump RPM sensor cut down to suit kit	1
10	GA5016169	Super Magnet	1
11	GA5067186	Hose assembly kit hydraulic drive suit hose support MY10	1

For machines fitted with 70 series pump RPM monitors:

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	90-02328	70 series RPM monitor & speed sensor - Complete	1
	16-40004	Teejet speed sensor	1

Pressure Flow Compensator

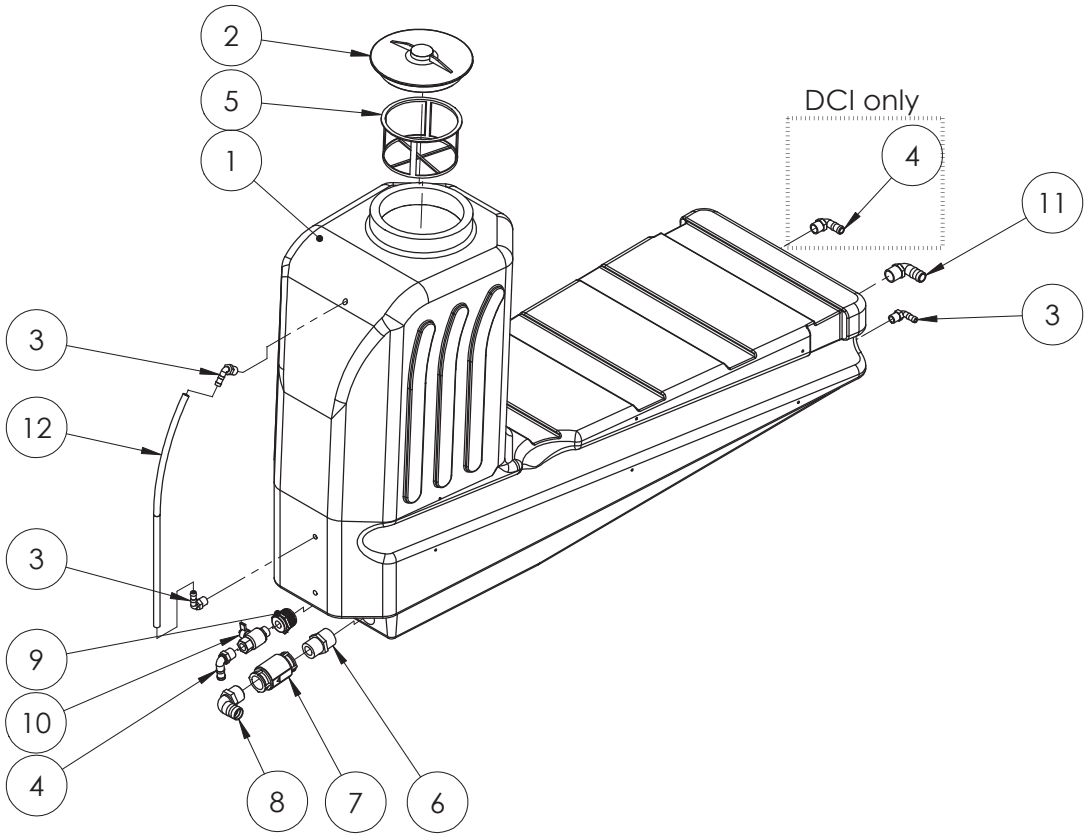


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5049425	Manual flow control	1
2	S75-0808	1/2" BSPP x 1/2" BSPT Hydraulic Fitting w/ O-Ring @ Washer	3
3	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
4	GA5049430	SHCS M8 x 70 ZP GR12.9	4

Chapter 3

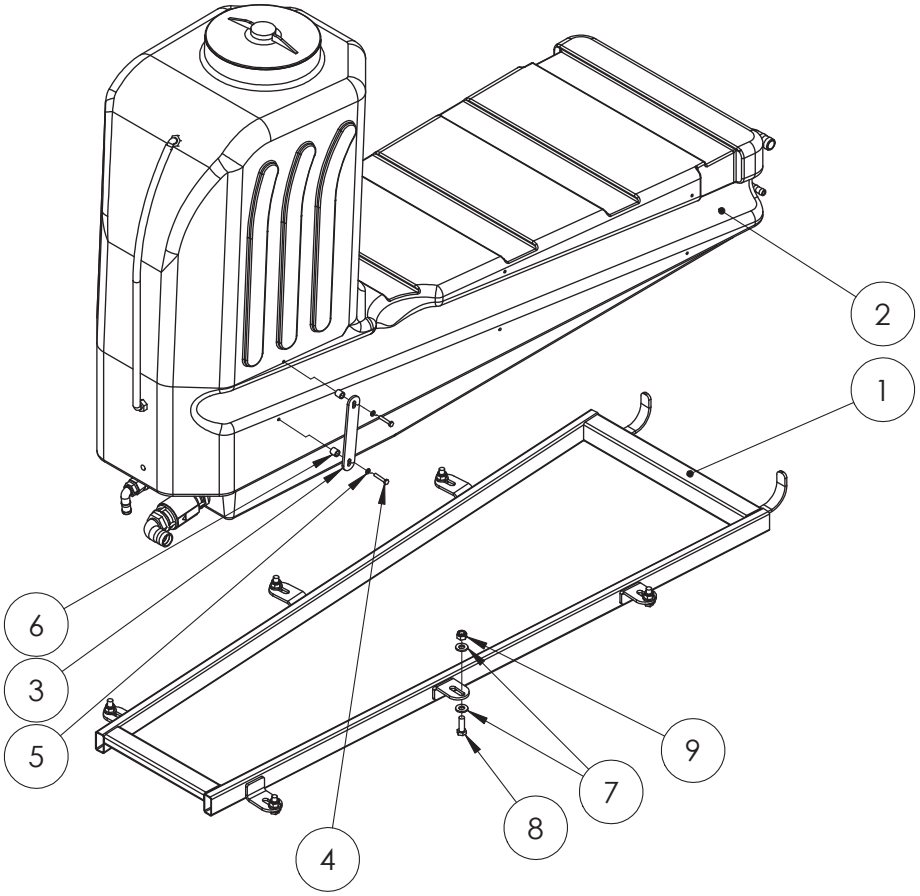
FLUSH TANK

400lt Belly Tank



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018367	Tank 400L underbelly	1
2	352022	Small Lid D255 c/w breather	1
3	HB050-90	Hose Barb Elbow 1/2	3
4	HB075-90	hose barb elbow 3/4" thread 3/4" barb	2
5	300110	Basket Filter D.204x115	1
6	RN150125	Reducing nipple 1 1/2" to 1 1/4"	1
7	GA5017361	Non return valve 1-1/4"	1
8	HB125-90	90' Poly Hose Barb Elbow 1 1/4	1
9	RB150075	Reducing bush 1 ½" to ¾"	1
10	GA5018315	Ball Valve Male / Female TEE 3/4"	1
11	HB100-90	Hose barb 90 degree 1" Banjo	1
12	GA4673870	12mm sight tube cut 660mm	1

400lt Belly Tank Frame

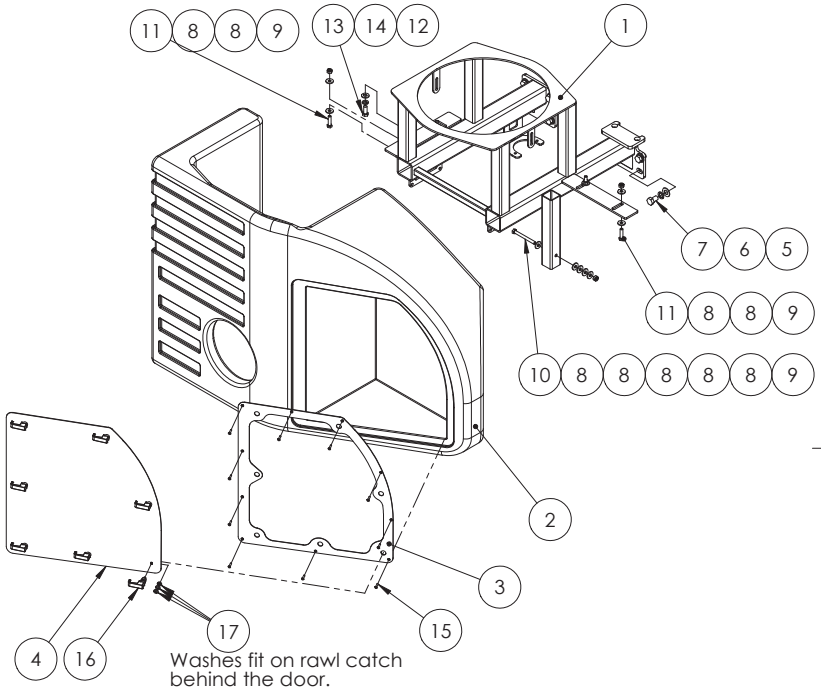


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654320	Rinse tank frame	1
2	GA4903087-EF	Preassembled 400L Belly Tank	1
3	F70681A	Hose retaining strap for belly tank	2
4	GA5011405	M6x35 bolt	4
5	GA5004437	M6 SS Washer	4
6	GA4552075	Crush tube, 10.2 ID x 15 OD x 15 long	4
7	GA5000587	M12 WASHER	12
8	GA5000311	M12x35 Bolt	6
9	GA5012461	M12 Nyloc nut Z/P	6

Chapter 4

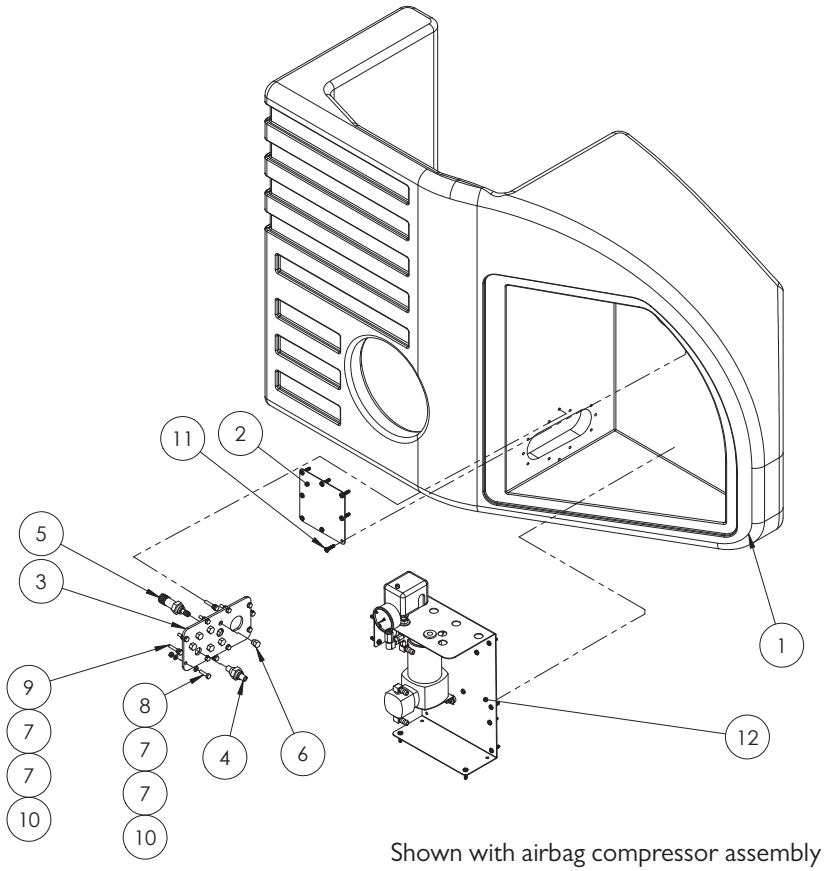
RIGHT HAND POD

Prairie Evolution Right Hand Pod



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654410	RH SIDE SUPPORT FRAME SUBASSEM	1
2	GA5018375	Plastic Pod body RH	1
3	GA4522585	RHS pod cover door inner	1
4	GA4522580	RHS pod cover door outer	1
5	GA5001009	Flat washer M16 HD	8
6	GA5000961	Washer 16mm Spring ZP	8
7	GA5000903	M16x25 bolt	8
8	GA5002627	Washer 3/8 ZP	11
9	GA5000141	M10 Nyloc Nut	4
10	GA5011139	M10x100 Bolt	1
11	GA5006071	Bolt M10 x 40 grd 10.9 ZP	3
12	GA5000587	M12 WASHER	1
13	GA5000307	M12x30 bolt	1
14	GA5000575	M12 Spring washer SS	1
15	GA5014819	10G x 25mm CS Self tapping screw	10
16	GA5066600	Rawl action latch black	7
17	GA5004883	Washer 8mm HD	21

Right Hand Side Module - Internal Components

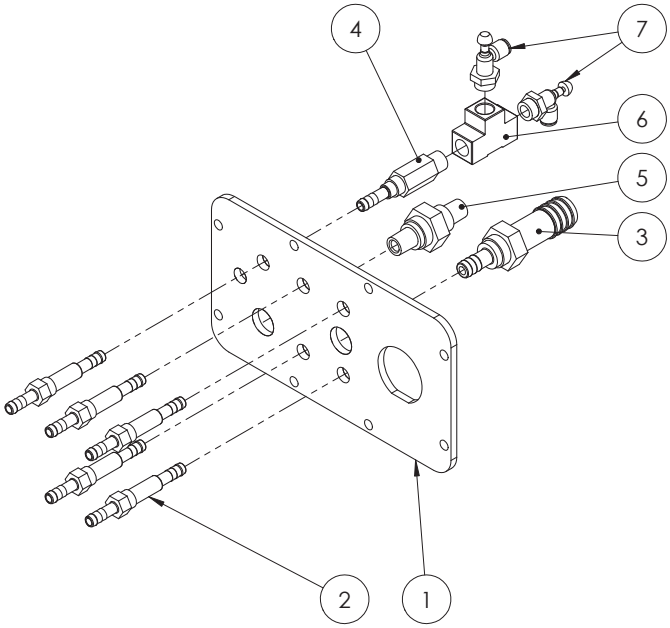


Shown with airbag compressor assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018375	Plastic Pod body RH	1
2	GA4533915	Pod RHS Bolt Hole Cover Plate	1
3	F70784A	Plumbing Manifold Plate EF	1
4	GA4582465	1/4" BSPT Nipple S/S suit RH Pod Manifold	1
5	MACH0129	3/4" barb to 3/8" barb fitting	1
6	GA4582485	Plug M12x1.5 fine	6
7	GA5004437	M6 SS Washer	24
8	GA5004073	M6x25 bolt	8
9	GA5011405	M6x35 bolt	4
10	GA5048115	Nut nyloc M6	12
11	GA5000527	Screw 12G x 1 XR STS Pan SS	8
12	GA4903122-EF	Airbag compressor assembly	1

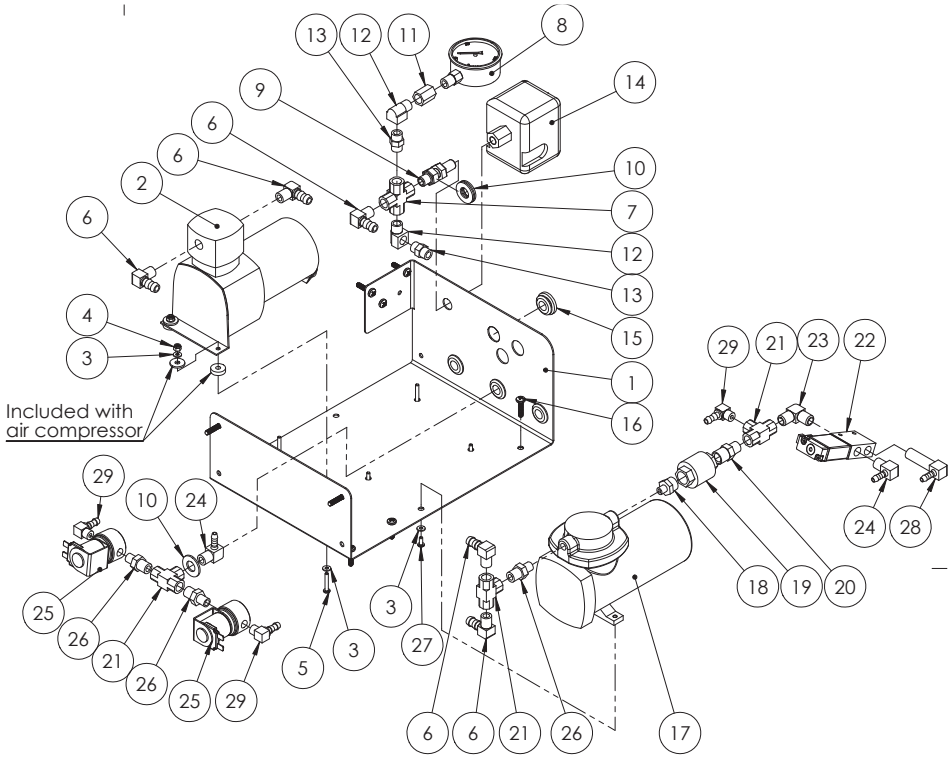
Flow Control Assembly

When foam marker fitted



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70784A	Plumbing Manifold Plate EF	1
2	MACH0128	1/4" barb to 1/4" barb fitting	5
3	MACH0129	3/4" barb to 3/8" barb fitting	1
4	MACH0130	1/4" BSPT male to 1/4" Barb Fitting	1
5	GA4582465	1/4" BSPT Nipple S/S suit RH Pod Manifold	1
6	GA5048300	1/4 Tee Female	1
7	GA5015643	Needle valve	2

Airbag and Foam Compressor Assembly



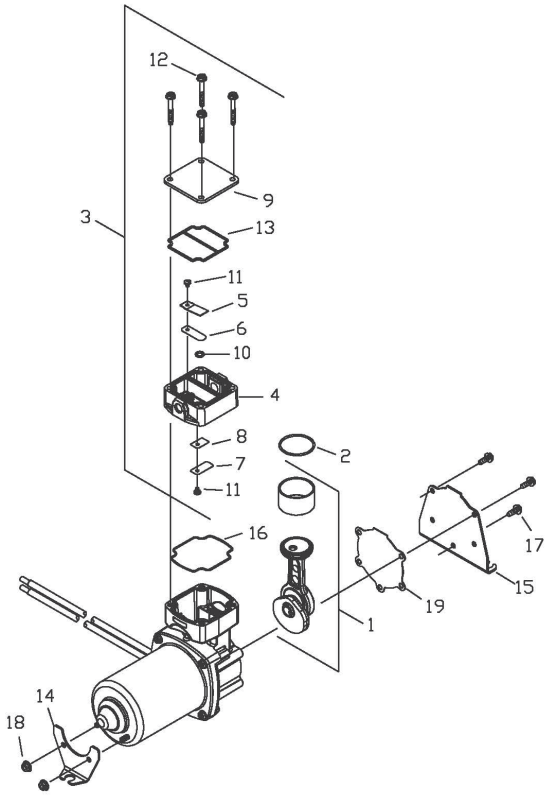
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70785A	Foam marker/air bag compressor mounting	1
2	GA5018809	Compressor suit airbag 327CDC56/12	1
3	GA5020510	M4 Washer Heavy duty SS	9
4	GA5049025	Nut M4 Nyloc SS	3
5	GA5049020	M4 x 25mm Machine Screw	3
6	GA5049290	Elbow brass 3/8 x 1/4	5
7	S32-04040404	1/4” BSPTFF equal cross	1
8	GA4948470	Small Face Gauge 160 psi	1
9	S44-0404	Nipple 1/4 x 1/4 with nut	1
10	GA5066235	Washer HD ZP M14	3
11	GA5066940	1/4" BSPP Socket Brass	1
12	GA5048305	Brass Elbow M & F extruded 1/4" x 1/4"	2
13	GA5050285	1/4" Brass Nipple	2
14	GA5016221	Switch differential Press. T/S Air Bag	1
15	GA5012199	29mm Neoprene Grommet	4
16	GA5000527	Screw 12G x 1 XR STS Pan SS	8
17	GA5018806	Air compressor suit foam marker	1
18	GA5020690	Nipple reducing Brass 1/8"x3/8"	1
19	GA5020010	One way valve 3/8 york	1
20	GA5045085	1/4" x 3/8" Brass Nipple	1
21	GA5048300	Tee Female Brass 1/4"	3
22	GA5002959	MAC Air Solenoid	1

Continued over page

Airbag and Foam Compressor Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
23	GA5008343	Elbow male thread 1/4 X 1/4	1
24	GA5048340	1/4" Brass Elbow	2
25	GA5018395	Solenoid liquid suit foam marker	2
26	GA5013809	Reducing Nipple 1/4 x 1/8	3
27	GA5011360	Bolt M4 x 10 Pan Head ZP	3
28	GA5008347	1/4" Brass Elbow Long	1
29	GA5066950	Barb elbow brass 1/4"x1/8"	3

Airbag Compressor



GA5018809 Airbag Compressor

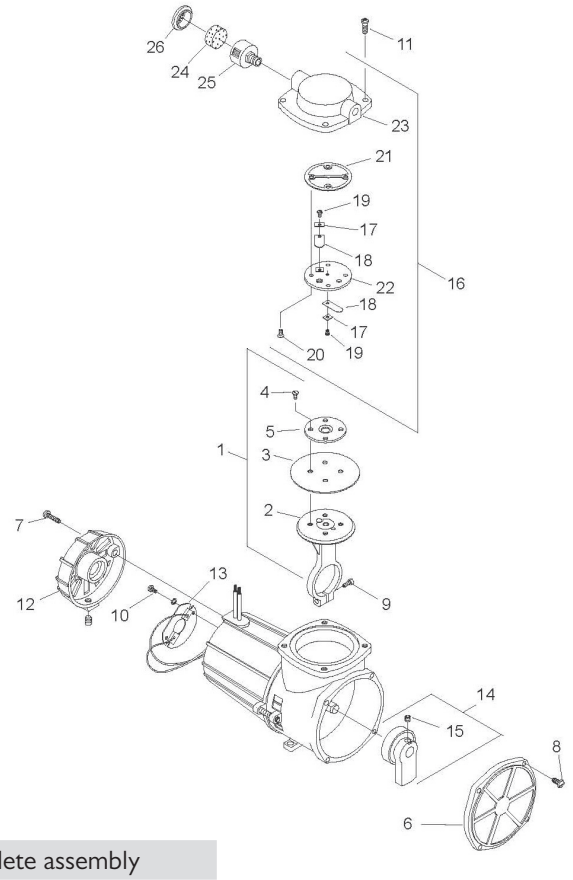
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1		Connecting Rod & Eccentric Assembly	1
2		O Ring - Sleeve	1
3		Head Assembly	1
4		Head	1
5		Valve Restraint	1
6		Valve Flapper - Exhaust	1
7		Valve Flapper - Intake	1

Continued over page

Airbag Compressor

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8		Valve Shim	1
9		Head Plate	1
10		O Ring - Valve Flapper	1
11		Screw - Valve Flapper	2
12		Screw - Head	4
13		O Ring Gasket	1
14		Bracket 12V	1
14		Bracket 24V	
15		Bracket	1
16		O Ring Gasket - Housing	1
17		Screw - Bracket	5
18		Nut - Bracket	2
19		Gasket - Bracket	1

Foam Marker Compressor



GA5018806 Complete assembly

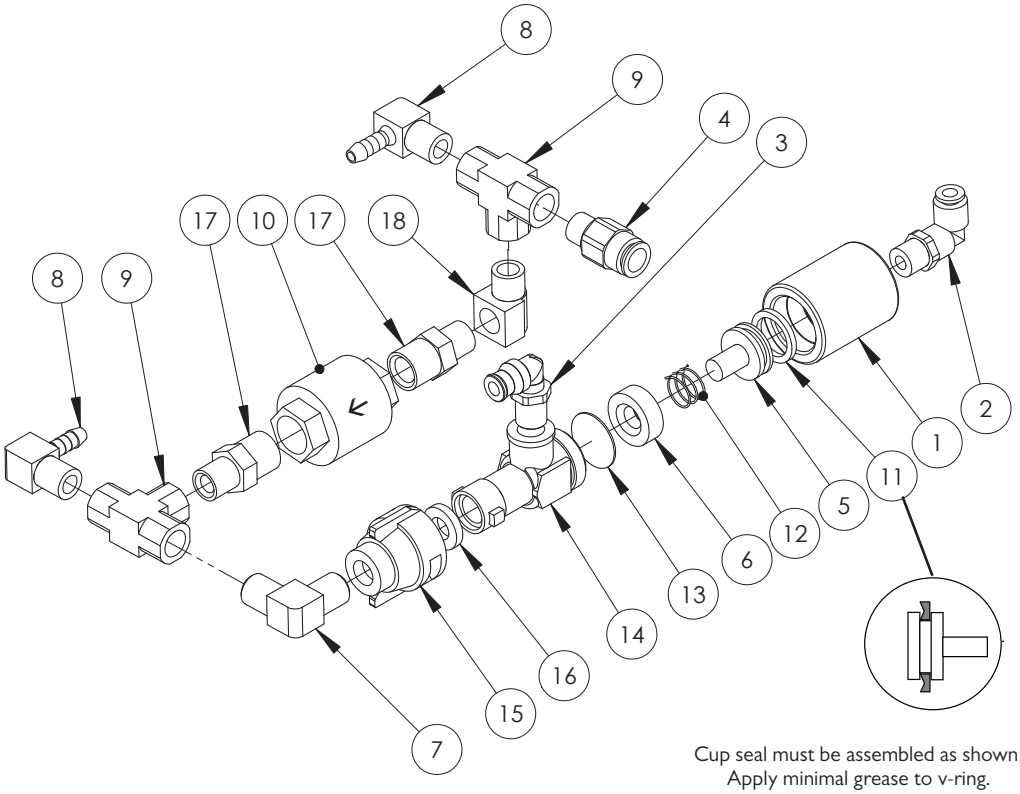
Item	Part No	Description	QTY
1	607180	Connecting Rod Assembly	1
2	607139	Connecting Rod	1
3	608148	Diaphragm	1

Continued over page

Foam Marker Compressor

Item	Part No	Description	QTY
4	625540	Screw - Hold Down Plate	4
5	654649	Hold Down Plate	1
6	614608	Front Cover	1
7	614608	Screw - Motor End Cap	2
8	625660	Screw - Front Cover	4
9	625114	Conn Rod. Screw	1
10	625476	Screw - Brush Card	2
11	625444	Screw - Head	4
12	620352	Motor End Cap Assembly	1
13	627093	Brush Card Assembly	1
14	645373	.18 Stroke Eccentric & Bearing Assy	1
	667611	.20 Stroke Eccentric & Bearing Assy	1
15	625244	Set Screw - Eccentric	1
16	660873-504	Head & Valve Plate Assembly	1
17	617045	Valve Keeper	2
18	621102	Valve Flapper - Intake & Exhaust	2
19	625160	Screw - Flapper	2
20	625606	Screw - Valve Plate	4
21	633439	Gasket - Head	1
22	654129	Valve Plate	1
23	660131-504	Head	1
24	641034	Filter Foam	1
25	660763	Filter Body	1
26	660767	Filter Body Cap	1

Foam Marker Exhaust Valve Assembly

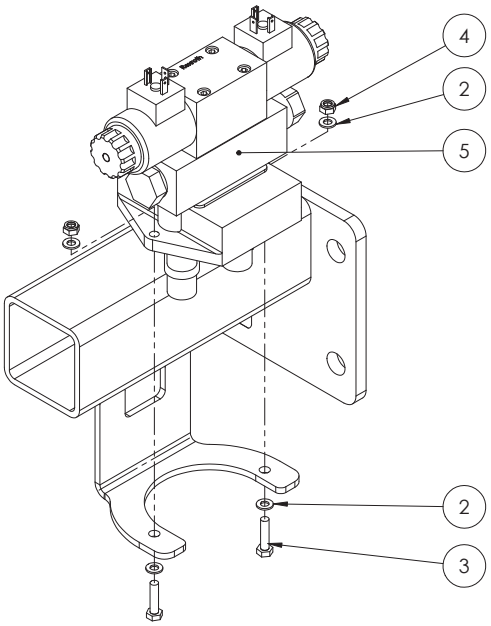


Cup seal must be assembled as shown.
Apply minimal grease to v-ring.

GA4912005	Pre Assembled Valve
GA4902160	Exhaust Valve Replacement Service Kit

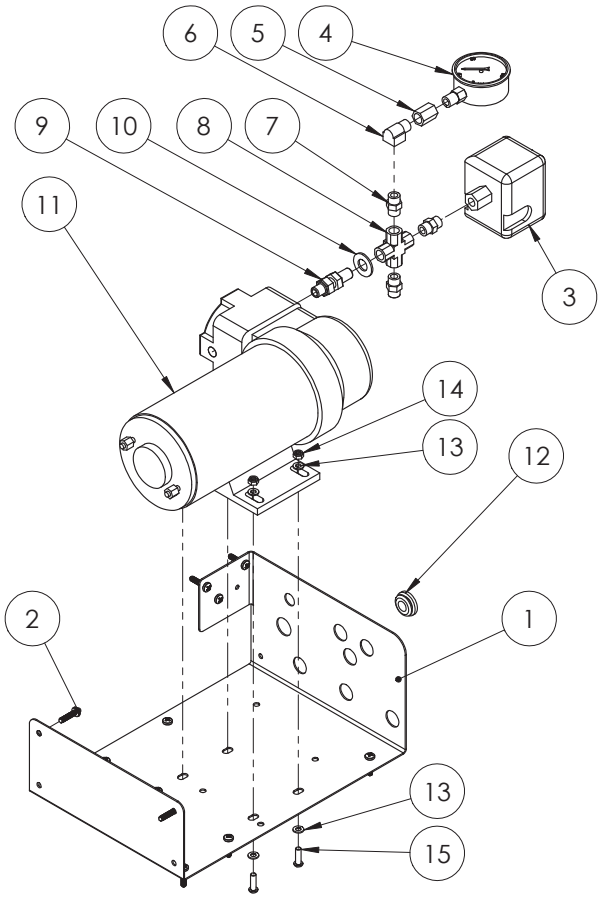
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4572000	Air Chemsaver Body	1
2	GA5045145	Elbow Brass 6mm x 1/8 BSPT	1
3	GA5016233	Swivel Elbow push in Steel 6mmx1/4 BSP (LEGRIS)	1
4	GA5045140	Adaptor Brass 6mm x 1/4 BSPT	1
5	GA4572005	Air Chemsaver Piston	1
6	GA4572010	Air Chemsaver Washer	1
7	GA5008343	Elbow male thread 1/4 X 1/4	1
8	GA5048340	1/4" Brass Elbow	2
9	GA5048300	Tee Female Brass 1/4"	2
10	GA5020010	One way valve 3/8 york	1
11	CP50676-VI	Cup Seal (Foam Marker Exhaust Valve)	1
12	GA5045090	Spring 14.2x14	1
13	QJ8355-1-4-NYR	Exhaust Valve Diaphagm	1
14	005860036	Diaphragm Nozzle Body	1
15	QJ4676-1-4-NYR	Nozzle Cap	1
16	CP19438-EPR	Cap Seal	1
17	GA5045085	1/4" x 3/8" Brass Nipple	2
18	GA5048305	Brass Elbow M & F extruded 1/4" x 1/4"	1

Fill Pump Spool



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654410	RH Side support frame subassembly	1
2	GA5004437	M6 SS Washer	4
3	GA5004073	M6x25 bolt	2
4	GA5048115	Nut nyloc M6	2
5	GA4903645	Fill pump hydraulic manifold assembly (See chapter 18 for further information)	1

Rapidfire Compressor Assembly

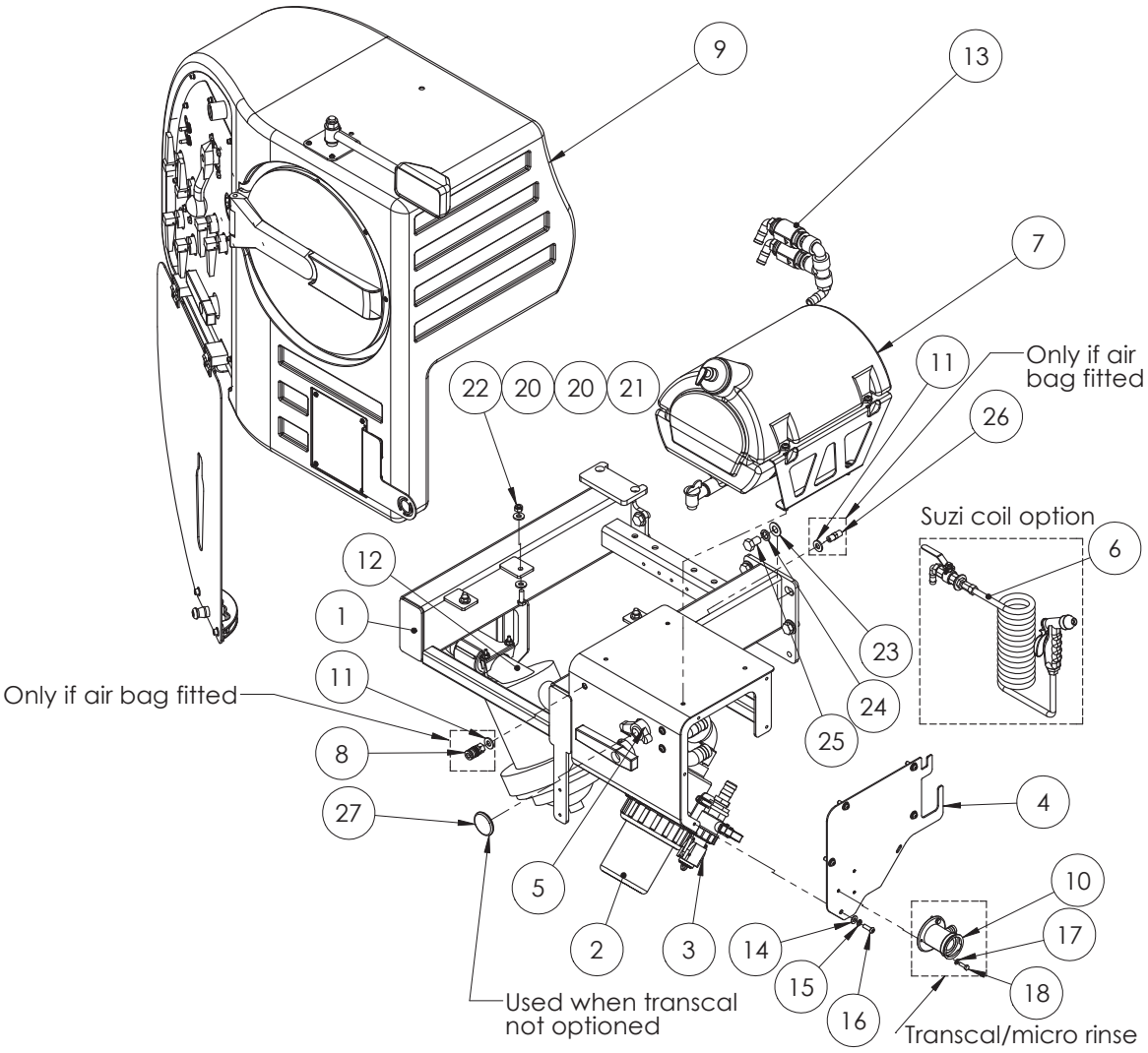


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70785A	Foam marker/air bag compressor mounting	1
2	GA5000527	Screw 12G x 1 XR STS Pan SS	11
3	GA5016221	Switch differential Press. T/S Air Bag	1
4	GA4948470	Small Face Gauge 160 psi	1
5	GA5066940	1/4” BSPP Socket Brass	1
6	GA5048305	Brass Elbow M & F extruded 1/4" x 1/4"	1
7	GA5050285	1/4" Brass Nipple	3
8	S32-04040404	1/4” BSPTFF equal cross	1
9	S44-0404	Nipple 1/4 x 1/4 with nut	1
10	GA5066235	Washer HD ZP M14	1
11	GA5053340	Compressor Rapid Fire	1
12	GA5012199	29mm Neoprene Grommet	1
13	GA5004437	M6 SS Washer	8
14	GA5048115	Nut nyloc M6	4
15	GA5004053	Bolt BHCS S'Steel M6x20	4

Chapter 5

LEFT HAND POD

Prairie Evolution Left Hand Pod



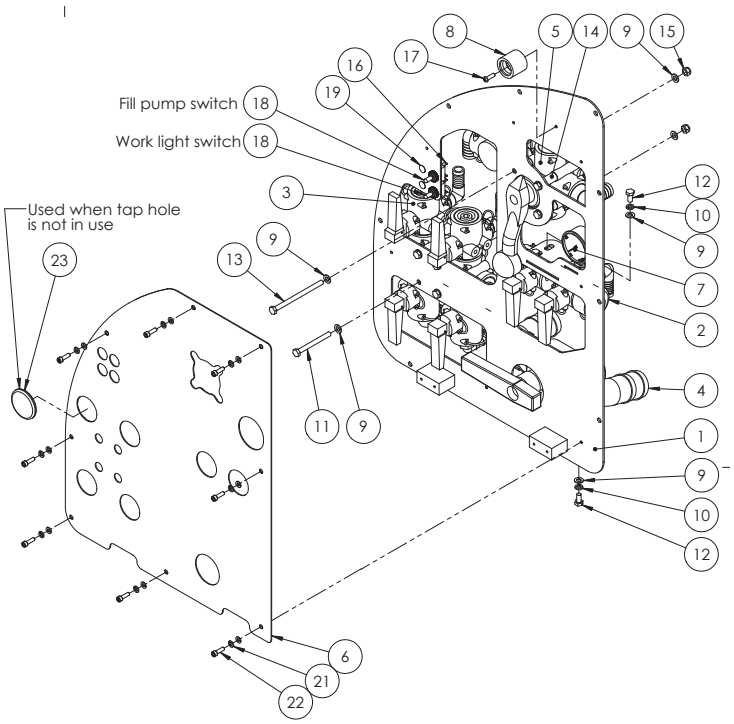
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658155	LHS pod frame suit 2011 model EF	1
2	GA4903148-06	Suction filter sub assem Evo 2011	1
3	GA4903148-07	Chem prope Evo 2011	1
4	GA4523755	Prairie suction pod frame side cover plate	1
5	GA4903148-08	Trans call sub assem EVO 2011	1
6	GA4903148-10	Hose wash gun assem Evo 2011	1
7	GA4903148-15	Hand wash assem Evo 2011	1

Continued over page

Prairie Evolution Left Hand Pod

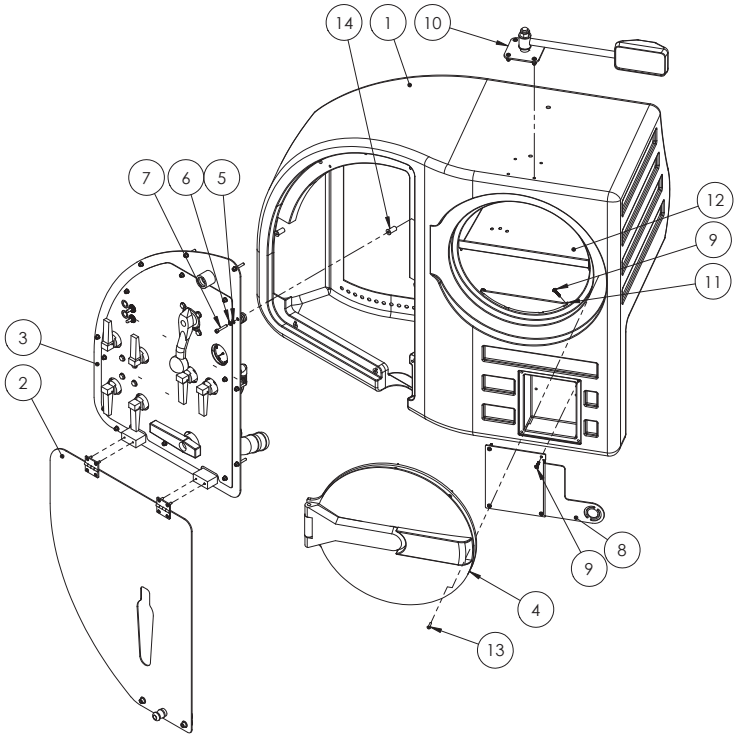
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	200S	Female 1/4 bspp female air coupling	1
9	GA4903148-16	Pod with door assem Evo 2011	1
10	GA5018800	Rinsing socket 3 pin EPDM	1
11	GA5000587	M12 WASHER	2
12	GA4903148-12	Fresh water filter assem Evo 2011	1
13	GA4903148-13	Non return valve assem Evo 2011	1
14	GA5004883	Washer 8mm HD	5
15	GA5004919	M8 Spring washer SS	5
16	GA5011473	M8 x 25 BHCS SS	5
17	GA5004437	M6 SS Washer	6
18	GA5004053	M6x20 bolt	3
19	GA5048115	Nut nyloc M6	3
20	GA5000117	Washer 10mm SS Heavy duty	8
21	GA5065455	Bolt Gr8.8 M10x30	4
22	GA5000141	M10 Nyloc Nut	4
23	GA5001009	Flat washer M16 HD	8
24	GA5000961	Washer 16mm Spring ZP	4
25	GA5000903	M16x25 bolt	8
26	S27-0404	1/4" x 1/4" Steel Nipple	1
27	GA5009685	Grommet 50mm blind black	1

POD Tap Assembly



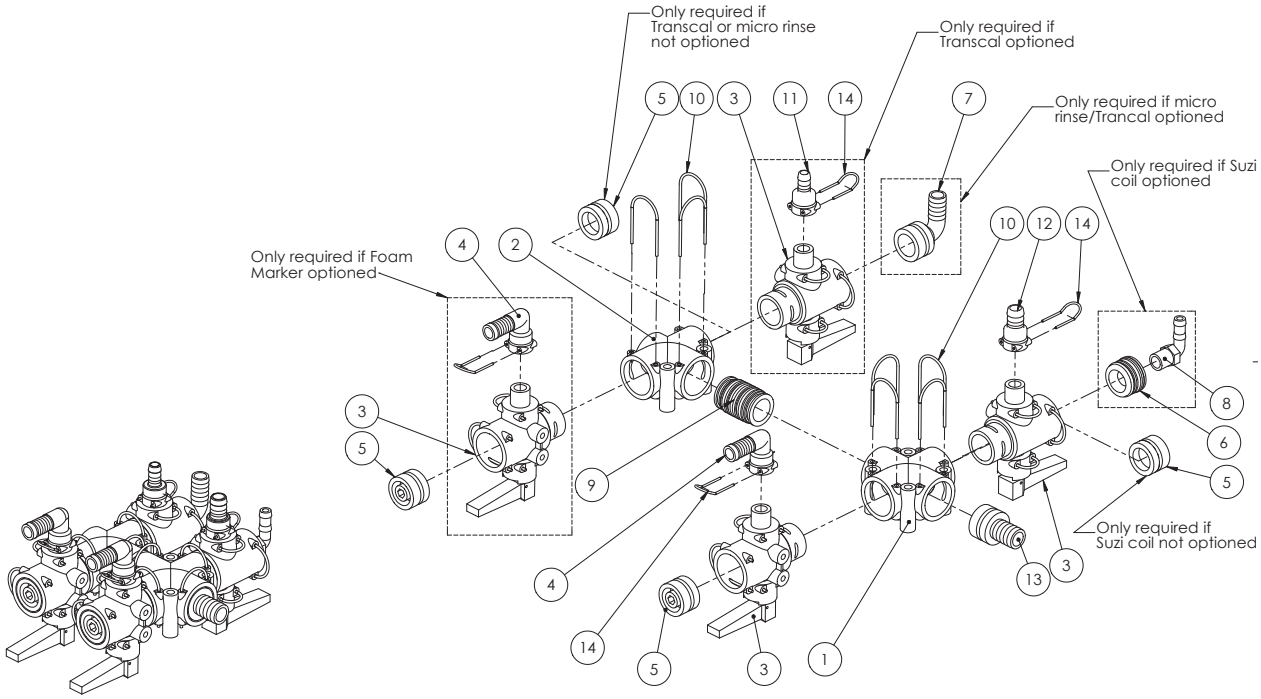
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658165	LHS pod door skin 2011	1
2	GA4903148-03	Pressure Control assem EVO 2011	1
3	GA4903148-01	Fill Manifold RH Pod Evo 2011	1
4	GA4903148-04	Fresh water fill tap assem EVO 2011	1
5		4 way tap assem	1
6	GA4523635	Cover Plate suit Altek ball valves 2011	1
7	GA4903148-14	Pressure gauge assem EVO 2011	1
8	GA5008629	female rubber door holder (black)	1
9	GA5004883	Washer 8mm HD	23
10	GA5004919	M8 Spring washer SS	7
11	GA5004749	M8x80 Bolt	4
12	GA5011465	M8x16 bolt H/T	7
13	GA5011501	M8x120 Bolt	4
14	GA4552135	Spacer for Altek Rotary valve	4
15	GA5004917	M8 Nyloc Nut	8
16	GA5012667	On/Off Switch ST25B	2
17	GA5004053	Bolt BHCS S'Steel M6x20	1
18	GA5012175	Narva Water Proof Switch Cover B/P	2
19	GA5048780	Dome plug 12mm	2
20	GA5004437	M6 SS Washer	8
21	GA5004447	M6 Spring washer SS	8
22	GA5004055	BOLT M6 x 20 SHCS ZP	8
23	GA5009685	Grommet 50mm blind black	1

Pod with door assembly



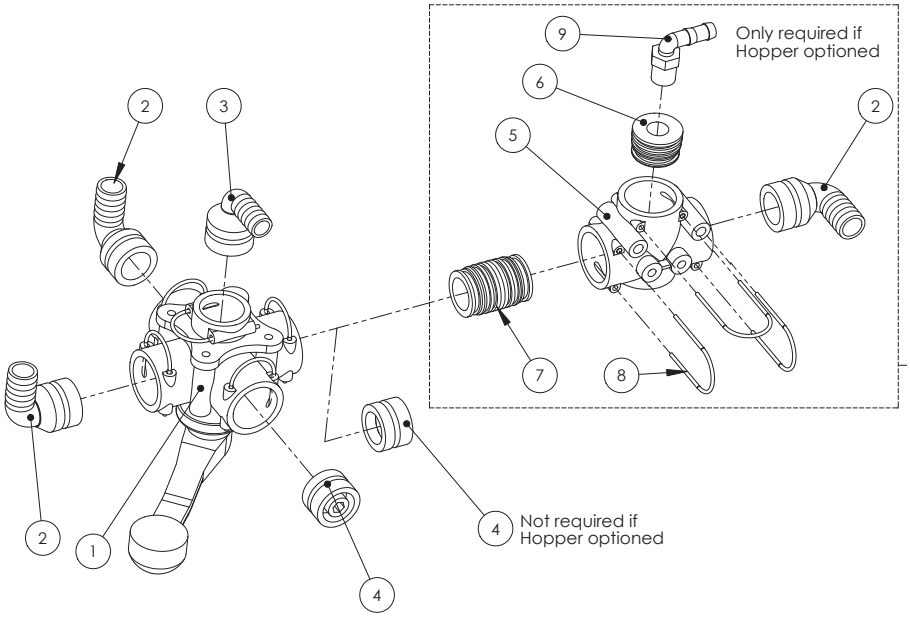
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018373	RH pod Blank suit Evo 2011	1
2	GA4903148-0	Pod cover door assem EVO 2011	1
3	GA4903148-09	Pod tap assem EVO 2011	1
4	3560602	Lid hinged black	1
5	GA5004437	M6 SS Washer	9
6	GA5004447	M6 Spring washer SS	9
7	GA5011425	M6 x 35mm Cap Screw	9
8	F70651A	FULL FACE COVER PLATE	1
9	GA5000527	Screw 12G x 1 XR STS Pan SS	12
10	GA4903148-11	Pod light assem Evo 2011	1
11	GA4534185	Locker Bottom Lip	1
12	GA4534190	Locker Middle Shelf	1
13	GA5014819	10G x 25mm CS Self tapping screw	8
14	GA5020855	Nut M6 x 25 Rawl Nut	9

Fill Manifold



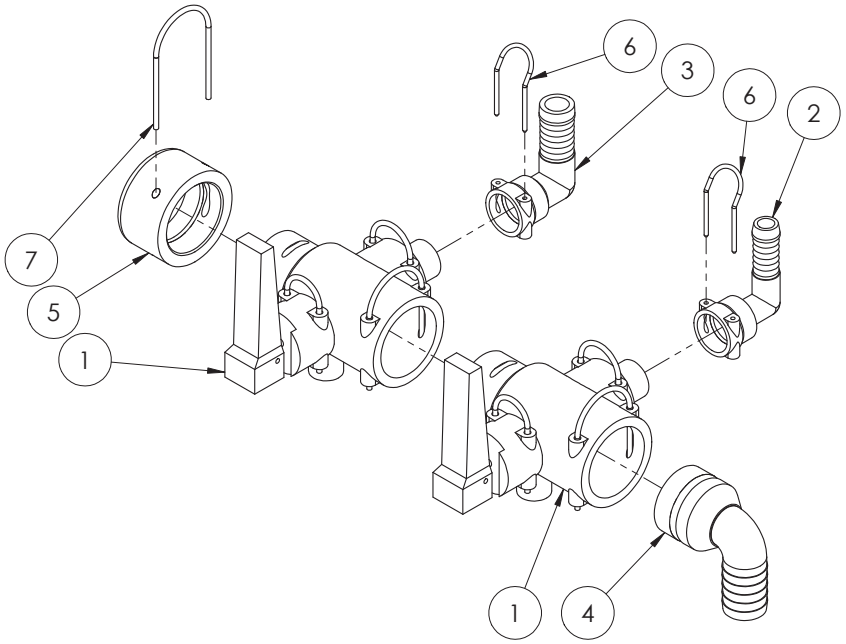
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065565	Cross piece 4xAS40	1
2	GA5065560	T-piece 3xAS40 M8 inserts	1
3	GA5065545	Quick fit valve 2 WAY	4
4	GA5065675	female hose tail AS24/20/90	2
5	GA5065680	Blind cap Plug AS40	4
6	GA4582345	Dummy plug AS40 G1/2 female	1
7	GA5065610	Plug in hose tail AS40/20/90 degree	1
8	HB050-90	Hose Barb Elbow 1/2	1
9	GA5065735	Plug in hose tail AS40/AS40	1
10	GA5065690	Safety pin AS40	7
11	GA5065745	Female Hose AS24/15	1
12	GA5065640	Female Hose AS24/20	1
13	GA5065580	Plug in hose tail AS40/25	1
14	GA5065695	AS24 Safety Pin	4

4 Way Valve and Hopper Extras



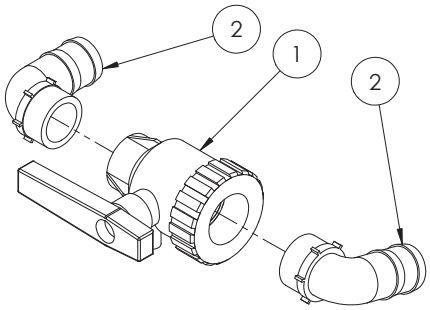
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065530	ball valve 5 WAY 1 1/4"	1
2	GA5065615	Plug in hose tail AS40/25/90 degree	3
3	GA5065610	Plug in hose tail AS40/20/90 degree	1
4	GA5065680	Blind cap Plug AS40	2
5	GA5065560	T-piece 3xAS40 M8 inserts	1
6	GA4582345	Dummy plug AS40 G1/2 female	1
7	GA5065735	Plug in hose tail AS40/AS40	1
8	GA5065690	Safety pin AS40	3
9	HB050-90	Hose Barb Elbow 1/2	1
	GA5065531	Replacement handle	1

Pressure Control Assembly



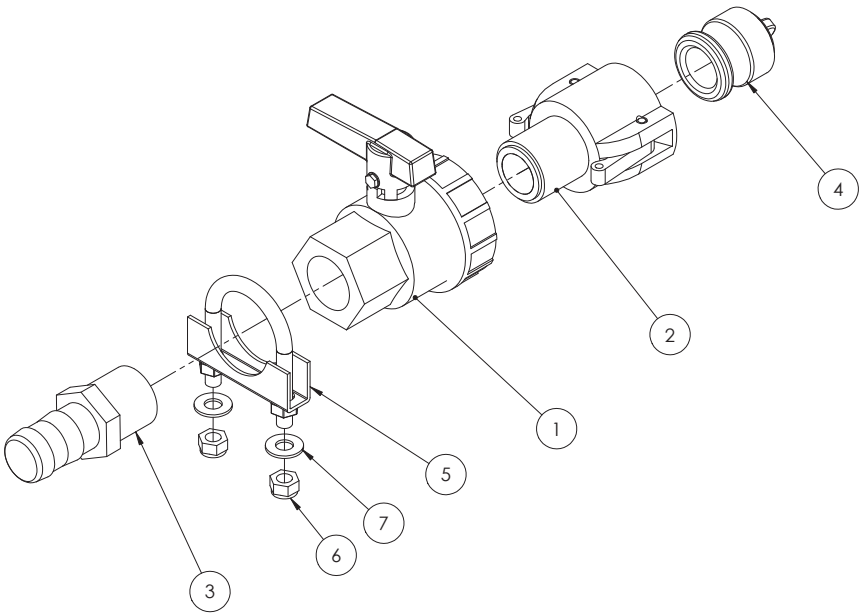
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065545	Quick fit valve 2 WAY	2
2	GA5065750	female hose tail AS24/15/90	1
3	GA5065675	female hose tail AS24/20/90	1
4	GA5065615	Plug in hose tail AS40/25/90 degree	1
5	GA4582395	Cap Altek AS40	1
6	GA5065695	AS24 Safety Pin	2
7	GA5065690	Safety pin AS40	1

Fresh Water Fill Tap



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4542137	ball valve Arag 2" 2 way ball valve	1
2	HB200-90	Hose Barb Elbow 2"	2

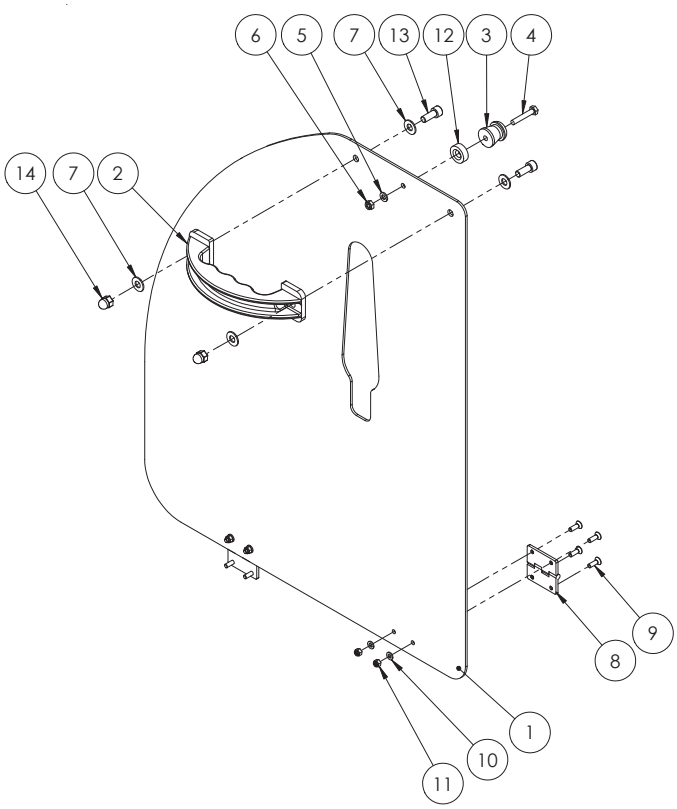
Chemical probe tap



GA4903082 Complete Assembly

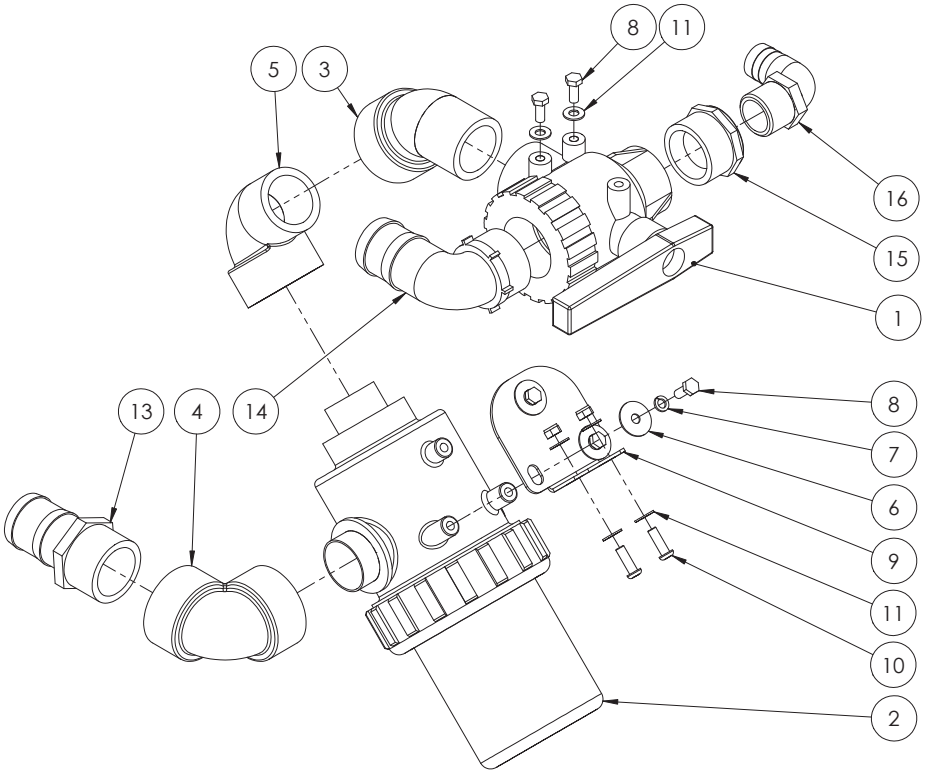
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UV100FP	Ball Valve Banjo 1"	1
2	100B	Cam lock female coupler male thread 1"	1
3	HB100	1" male thread x 1" barb	1
4	100PL plug	Banjo 1"	1
5	GA5006705	Exhaust clamp C8 2"	1
6	GA5004917	M8 Nyloc Nut	2
7	GA5004883	Washer 8mm HD	2

Pod cover door



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523640	Fill Station Cover	1
2	GA5009841	Handle black HD poylthne	1
3	GA5011607	Male rubber door holder	1
4	GA5011405	M6x35 bolt	1
5	GA5004437	M6 SS Washer	1
6	GA5048115	Nut nyloc M6	1
7	GA5004883	Washer 8mm HD	4
8	GA5020415	Hinge S/S 50 x 52 x 3	2
9	GA5051230	M5x15mm FHCS SS	8
10	GA5003983	M5 washer ss	4
11	GA5003975	M5 Nyloc nut SS	4
12	GA4572010	Washer	1
13	GA5004707	M8x20 unbrako	2
14	GA5011457	M8 Dome Nut	2

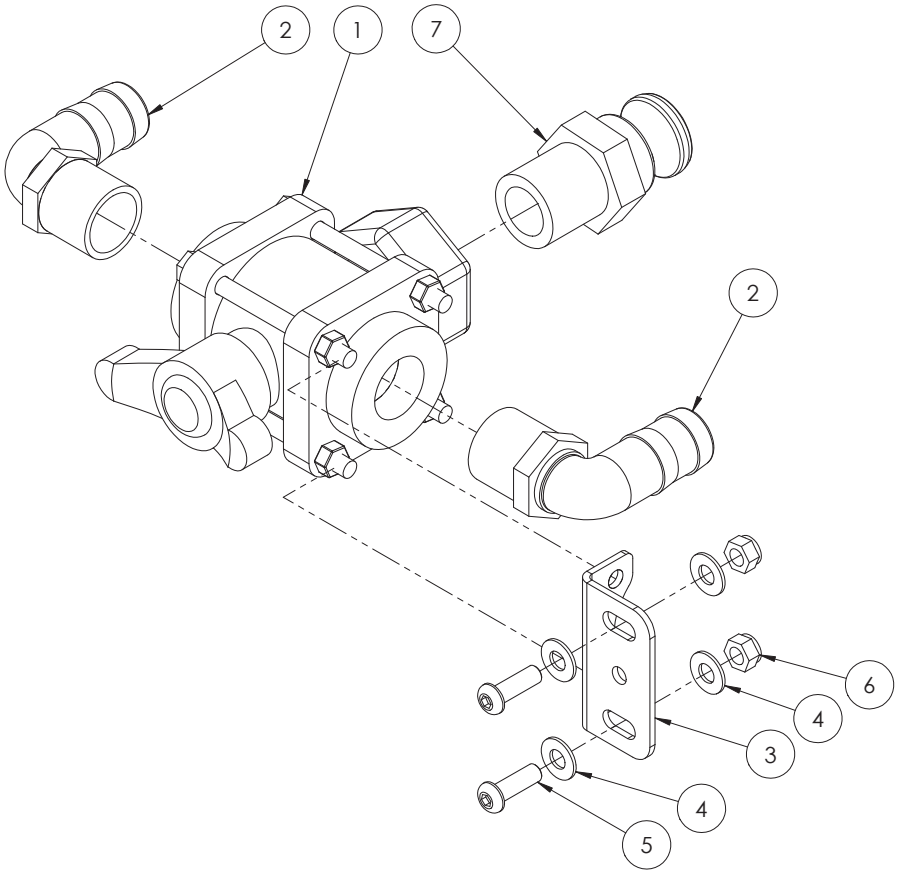
Suction filter



GA4903148-3 Complete Assembly

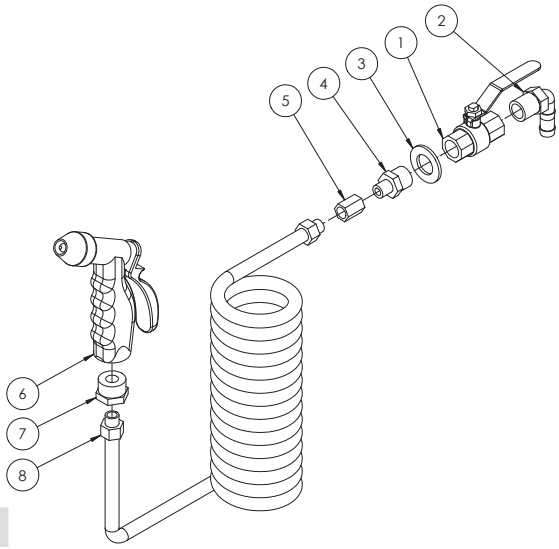
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4542237	2" 3 way ball valve	1
2	317072	2" Suction filter (see Filter chapter)	1
3	SL200-45	2" Street Elbow 45 degree	1
4	EL200-90	Pipe Elbow 2" female	1
5	SL200-90	Street Elbow 2"	1
6	GA5017645	1/4" Flat washer large	3
7	GA5004919	M8 Spring washer SS	3
8	GA5004085	M8x20 bolt	5
9	GA4523840	Filter mount plate suit 2011 pod	1
10	GA5011473	M8 x 25 BHCS SS	2
11	GA5004883	Washer 8mm HD	6
12	GA5004917	M8 Nyloc Nut	2
13	HB200	Straight Hose Barb 2"	1
14	HB200-90	Hose Barb Elbow 2"	1
15	RB200125	Poly Pipe Reducer Bush 2 x 1 1/4	1
16	HB125-90	90' Poly Hose Barb Elbow 1 1/4	1

Transcal sub assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	V-100-BL	Banjo bottom load ball valve 1"	1
2	HB100-90	Hose barb 90 degree 1" Banjo	2
3	GA4502210	ball valve mounting plate	1
4	GA5004883	Washer 8mm HD	4
5	GA5011473	M8 x 25 BHCS SS	2
6	GA5004917	M8 Nyloc Nut	2
7	100F	1" Male Adaptor Male Thread	1

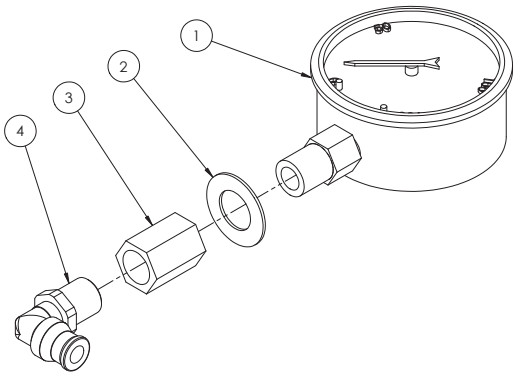
Wash down gun



GA4903148-10 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018309	12mm Ball valve	1
2	HB050-90	Hose Barb Elbow 1/2	1
3	GA5001739	M20 Heavy Duty Flat Washer	1
4	GA5012259	Nipple Reducing 1/2" x 1/4"	1
5	GA5066940	1/4" BSPP Socket Brass	1
6	GA5051390	Wash Down Gun water spray	1
7	GA5049701	Bush Brass reducing 3/4 x 1/4	1
8	GA5051455	Suzi coil 12x8 x 5m (1/4 male swivel ends)	1

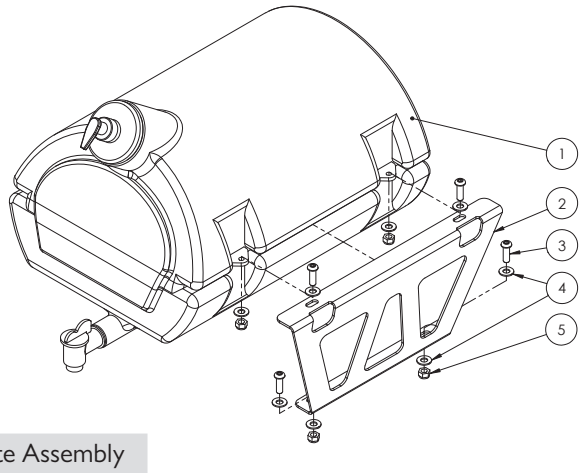
Pressure Gauge



GA4903148-14 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4948470	Small Face Gauge 160 psi	1
2	GA5017641	1/2" thin flat washer	1
3	GA5066940	1/4" BSPP Socket Brass	1
4	GA5016235	Swivel Elbow push in Brass10x1/4 BSP	1

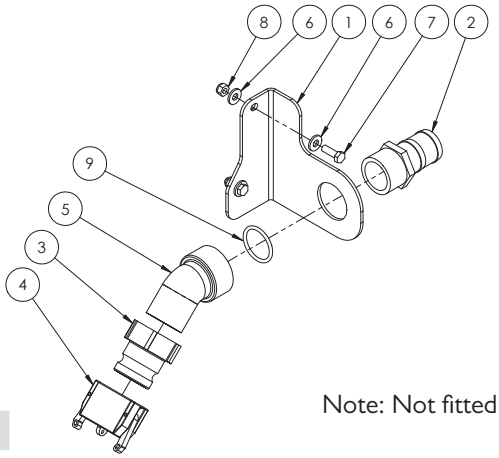
Hand Wash Assembly



GA4903148-15 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075110	Plastic water tank 30L black with soap holder	1
2	GA4523740	30L hand wash Tank mount bracket	2
3	GA5011473	M8 x 25 BHCS SS	8
4	GA5004883	Washer 8mm HD	16
5	GA5004917	M8 Nyloc Nut	7

Fill Point 2” Assembly

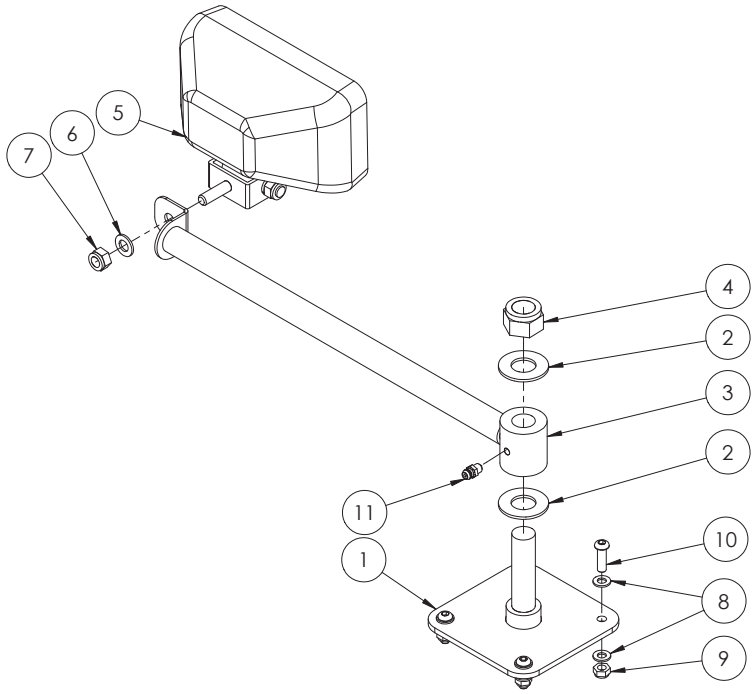


Note: Not fitted if fill pump is optioned

GA4903286 Complete Assembly

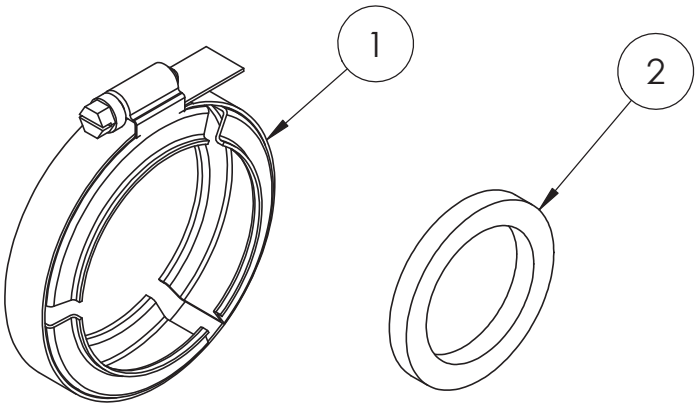
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523870	fill pump mount plate suit 2 inch	1
2	HB200	Straight Hose Barb 2"	1
3	200A	Male Adapter 2 female Thread	1
4	200CAP	2 inch cam lock cap	1
5	SL200-45	2" Street Elbow 45 degree	1
6	GA5000117	Washer 10mm SS Heavy duty	4
7	GA5065455	Bolt Gr8.8 M10x30	2
8	GA5000141	M10 Nyloc Nut	2
9	GA5009187	O Ring suit exacta tank cap 50X5	1

POD Light Assembly



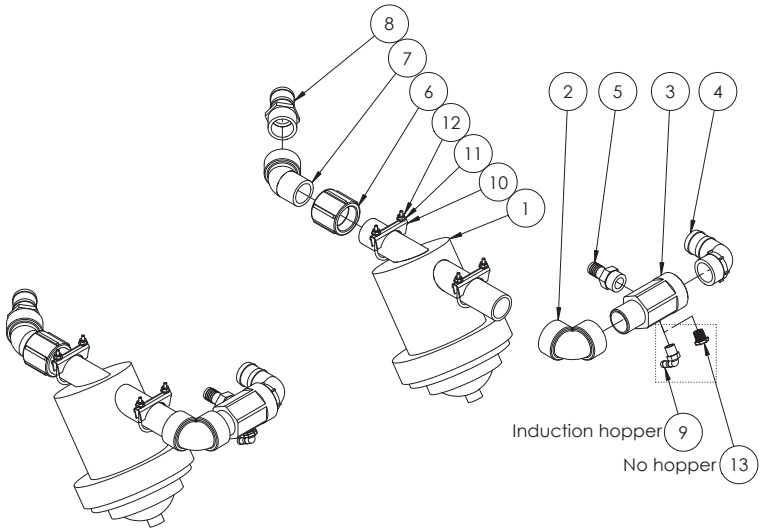
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657105	Prairie hopper light arm mount	1
2	GA5001009	Flat washer M16 HD	2
3	GA4657106	Prairie hopper light arm	1
4	GA5001029	M16 Nyloc nut	1
5	GA5051350	Narva Luminator Light	1
6	GA5004883	Washer 8mm HD	1
7	GA5051700	M8 Nyloc Nut	1
8	GA5004437	M6 SS Washer	8
9	GA5048115	Nut nyloc M6	4
10	GA5004053	Bolt BHCS S'Steel M6x20	4
11	GA5012203	Grease Nipple 1/4" UNF Short	1

Clamp and Seal Flange

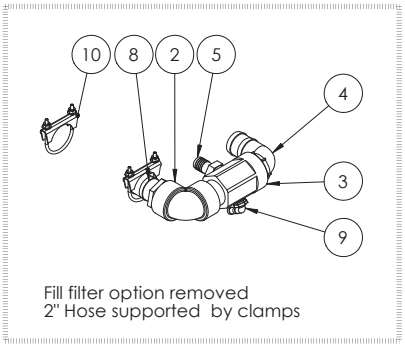


ITEM	PART NO	DESCRIPTION	QTY.
1	FC200	2" Stnrd Port Worm Screw Clamp	
2	GA5009335	Gasket camlock Nitrile 1 1/2 FIT150	

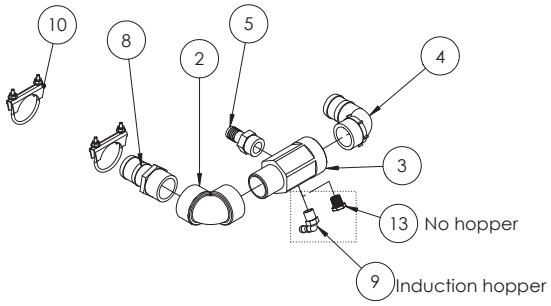
Fill Filter Assembly



With 2" fill filter
Please see filter section for filter details

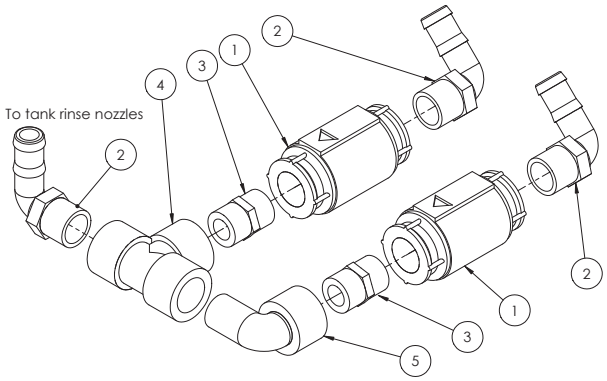


Fill filter option removed
2" Hose supported by clamps



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5001333	2" Fill filter with 50 mesh screen viton	1
2	EL200-90	Pipe Elbow 2" female	1
3	MACH0311	POLY FITTING suit fresh water fill 2" FEMALE to 2" MALE to 1" FEMALE	1
4	HB200-90"	Hose Barb Elbow 2”	1
5	HB100	Hose Barb 1" Banjo	1
6	CPLG200	2” poly pipe coupling	1
7	SL200-45	2" Street Elbow 45 degree	1
8	HB200	Straight Hose Barb 2"	1
9	HB050-90	Hose Barb Elbow 1/2	1
10	GA5006689	Exhaust clamp - 66mm C12	2
11	GA5004883	Washer 8mm HD	4
12	GA5004917	M8 Nyloc Nut	4
13	PLUG050	Pipe Plug 1/2	1

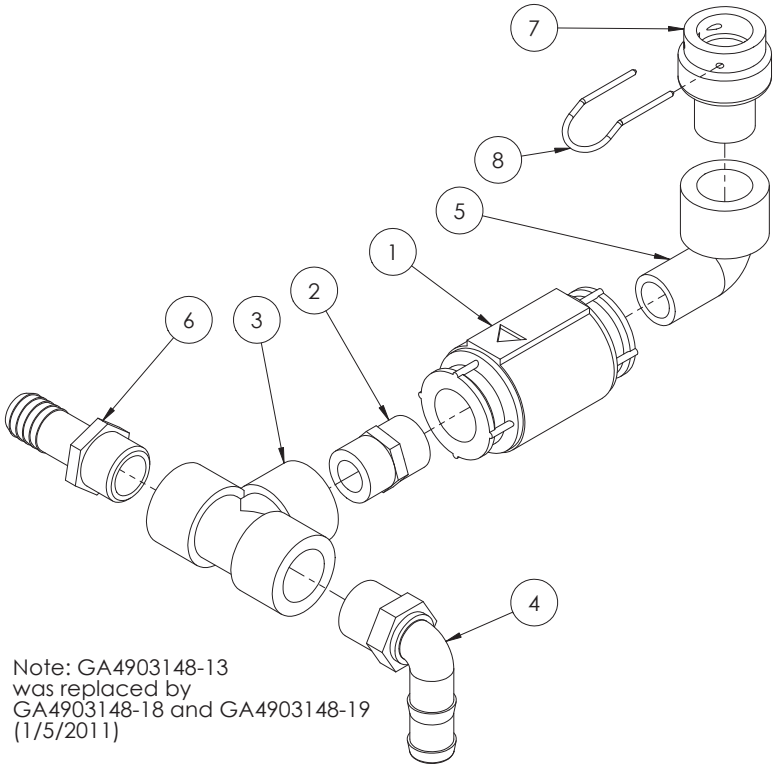
Non return assembly



Note: GA4903148-13 was replaced by GA4903148-18 and GA4903148-19 (1/5/2011)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002473	Non return valve philmac 3/4"	2
2	HB075-90	hose barb elbow 3/4" thread 3/4" barb	3
3	NIP075-SH	Short nipple 3/4"	2
4	TEE075	Tee female 3/4"	1
5	SL075-90	Street elbow 3/4" male-3/4" female 90 deg	1

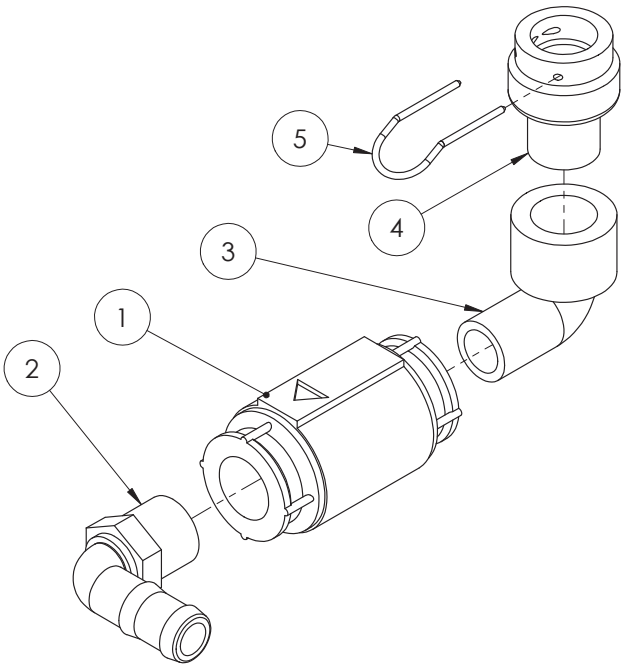
Non return assembly



Note: GA4903148-13
was replaced by
GA4903148-18 and GA4903148-19
(1/5/2011)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002473	Non return valve philmac 3/4"	1
2	NIP075-SH	Short nipple 3/4"	1
3	TEE075	Tee female 3/4"	1
4	HB075-90	Hose barb elbow 3/4" thread 3/4" barb	1
5	SL075-90	Street elbow 3/4" male-3/4" female 90 deg	1
6	HB075	Barb male 3/4"	1
7	GA4582415	Coupling Altek AS24 to 3/4" BSPT Male	1
8	GA5065695	AS24 Safety Pin	1

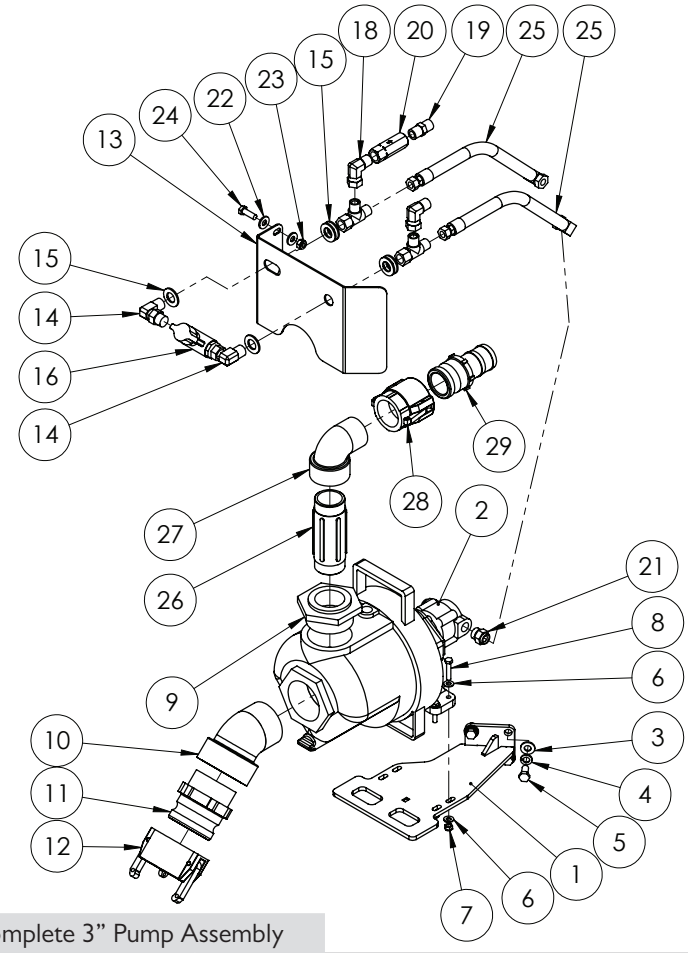
Non return assembly



Note: GA4903148-13 was replaced by
GA4903148-18 and GA4903148-19 (1/5/2011)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002473	Non return valve philmac 3/4"	1
2	HB075-90	Hose barb elbow 3/4" thread 3/4" barb	1
3	SL075-90	Street elbow 3/4" male-3/4" female 90 deg	1
4	GA4582415	Coupling Altek AS24 to 3/4" BSPT Male	1
5	GA5065695	AS24 Safety Pin	1

Hydraulic Fill Pump



GA4903149 Complete 3" Pump Assembly

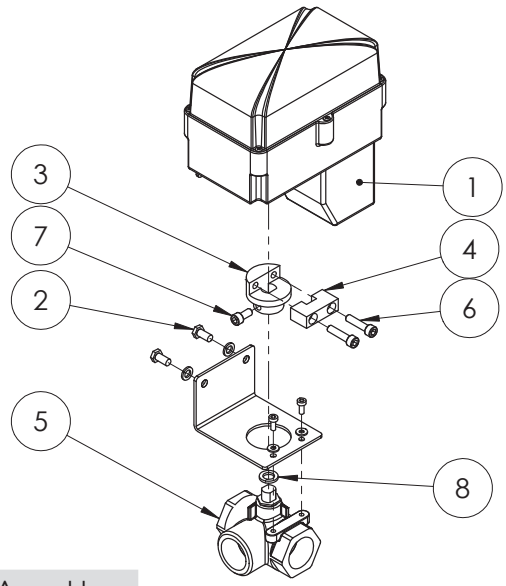
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658170	Fill pump mount frame 2011	1
2	300PHYV	3" Banjo fill pump	1
3	GA5000587	M12 WASHER	4
4	GA5000575	M12 Spring washer SS	4
5	GA5000295	Set screw HT M12 x 25	4
6	GA5004883	Washer 8mm HD	8
7	GA5004917	M8 Nyloc Nut	4
8	GA5048655	M8x40 bolt	4
9	RB300200	Poly Pipe Reducer Bush 3" x 2"	1
10	SL300-45	Street Elbow 3" 45 deg	1
11	300F	Male Cam lock Adaptor 3 Male Thread	1
12	300CAP	3" Female Cam lock Cap	1
13	GA4523865	fill pump tap plate suit 3 inch pump	1
14	S77-0808	0808 90' Elbow	2
15	GA5001739	M20 Heavy Duty Flat Washer	6
16	GA5000835	Ball valve hydraulic 1/2" FF	1
17	S167-080808	TEE 1/2 BSPT M x M F	2
18	S82-0808	1/2" Hydraulic Elbow	2

Continued over page

Hydraulic Fill Pump

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
19	S27-0808	0808 BSPTM BSPMT nipple	1
20	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
21	S93-0814	0.5inch BSPT male to 0.875 inch UN O ring male	2
22	GA5000117	Washer 10mm SS Heavy duty	4
23	GA5000141	M10 Nyloc Nut	2
24	GA5065455	Bolt Gr8.8 M10x30	2
25	GA5067911	1/2" hyd hose cut 340mm T202-0808 and T205-0808	2
26	NIP200-6	2" X 6" Poly Nipple	1
27	SL200-90	Street Elbow 2"	1
28	200CAP	2 inch cam lock cap	1
29	200E	Cam lever coupling - 2" male adapter x 2" hose shank	1

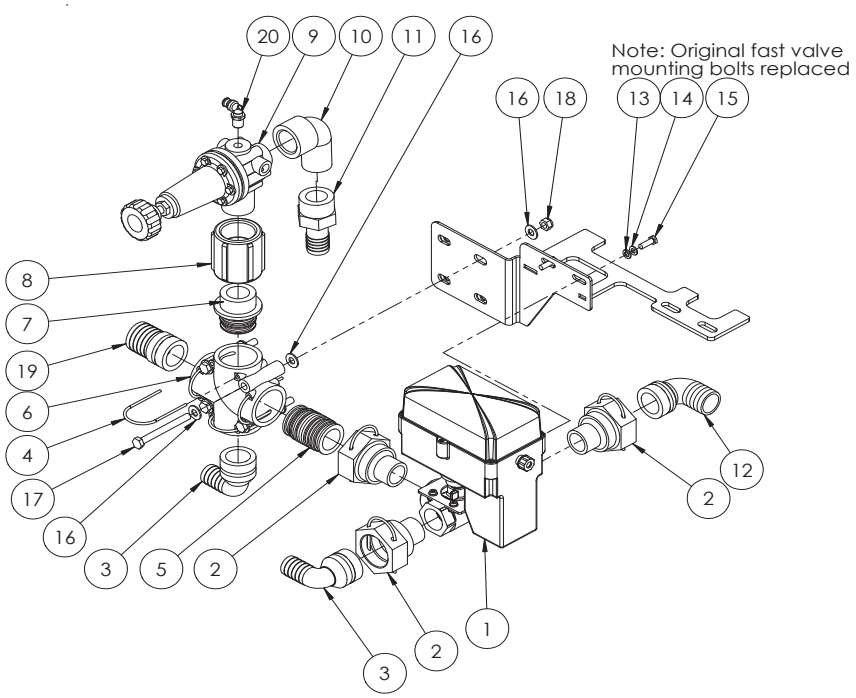
Raven Fast Close Valve



117017359 Complete Assembly

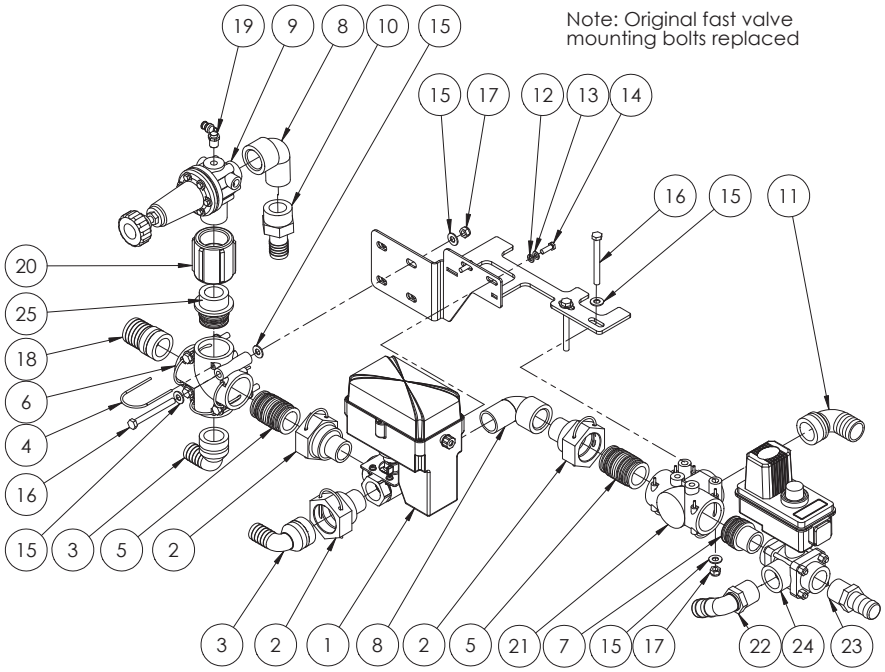
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1170171360	Motor assembly includes fast valve and adaptor harness 1150171967 (rev A) and motor 0630172982 (rev C)	1
2	3110050201	Bolt Hex 1/4 - 20 x 1/2"	2
3	1070171397	Coupler 1" 3 way	1
4	1070171394	Clamp coupler	1
5	3340002043	1" 3 way ball valve SS	1
6	3110068068	Cap screw 1/4 -20 x 1"	2
7	3110068064	Cap screw 1/4 -20 x 1/2"	1
8	2190000123	Graphite seal	1
	1150171967	Cable adaptor suit fast close valve	1
	0630172982	Motor assembly fast close valve	

Flow Control Assembly - Standard



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1170171359	Valve Fast Close 1" 3 way & cable	1
	1150171967	Cable adaptor only	1
	0630173210	Motor and valve	1
	1170171360	Motor only	1
	3340002043	Valve only	1
2	GA4582385	Coupling Altek AS40 to 1" NPT male thread	3
3	GA5065615	Plug in hose tail AS40/25/90 degree	2
4	GA5065690	Safety pin AS40	7
5	GA5065735	Plug in hose tail AS40/AS40	1
6	GA5065565	Cross piece 4xAS40	1
7	GA5065595	AS40 to 1 1/4" Male Thread	1
8	SL100-90	Street Elbow 1" Poly	1
9	00200016	Safety valve 1" Red 15 bar polmac	1
10	HB100	Hose Barb 1" Banjo	1
11	GA5065620	Plug in hose tail AS40/33/90 degree	1
12	GA5004447	M6 Spring washer SS	2
13	GA5004437	M6 SS Washer	2
14	GA5015001	Set Screw 1/4 x 3/4 ZP GR8	2
15	GA5004883	Washer 8mm HD	12
16	GA5004749	M8x80 Bolt	4
17	GA5004917	M8 Nyloc Nut	4
18	GA5065590	Plug in hose tail AS40/39	1
19	GA5016233	Swivel Elbow push in Steel 6mmx1/4 BSP (LEGRIS)	1
20	CPLG125	Coupling poly 1 1/4	1

Flow Control Assembly (Boom Recirculation)

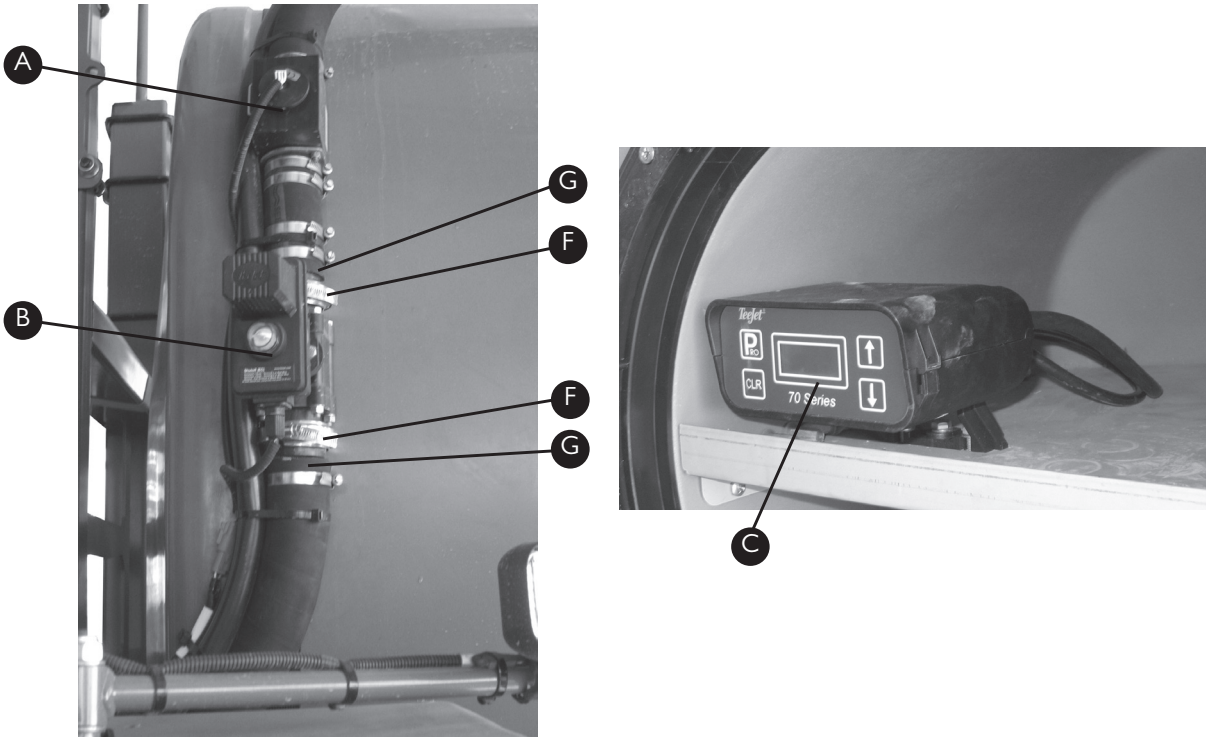


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	1170171359	Valve Fast Close 1" 3 way & cable	1
	1150171967	Cable adaptor only	1
	0630173210	Motor and valve	1
	1170171360	Motor only	1
	3340002043	Valve only	1
2	GA4582385	Coupling Altek AS40 to 1" NPT male thread	3
3	GA5065615	Plug in hose tail AS40/25/90 degree	2
4	GA5065690	Safety pin AS40	10
5	GA5065735	Plug in hose tail AS40/AS40	2
6	GA5065565	Cross piece 4xAS40	1
7	GA5065600	AS40 to 1" Male Thread	2
8	SL100-90	Street Elbow 1" Poly	2
9	00200016	Safety valve 1" Red 15 bar polmac	1
10	HB100	Hose Barb 1" Banjo	1
11	GA5065620	Plug in hose tail AS40/33/90 degree	1
12	GA5004447	M6 Spring washer SS	2
13	GA5004437	M6 SS Washer	2
14	GA5015001	Set Screw 1/4 x 3/4 ZP GR8	2
15	GA5004883	Washer 8mm HD	16
16	GA5004749	M8x80 Bolt	6
17	GA5004917	M8 Nyloc Nut	6
18	GA5065590	Plug in hose tail AS40/39	1
19	GA5016233	Swivel Elbow push in Steel 6mmx1/4 BSP (LEGRIS)	1
20	CPLG125	Coupling poly 1 1/4	1

Flow Control Assembly (Boom Recirculation)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
21	GA5065560	T-piece 3xAS40 M8 inserts	1
22	HB100-90	Hose barb 90 degree 1" Banjo	1
23	HB100	Hose Barb 1"	1
24	B344BEC-34-C	Teejet 3 way valve - Note: yellow indicator	1
25	GA5065595	AS40 to 1 1/4" male thread	

Fill Flow Meter

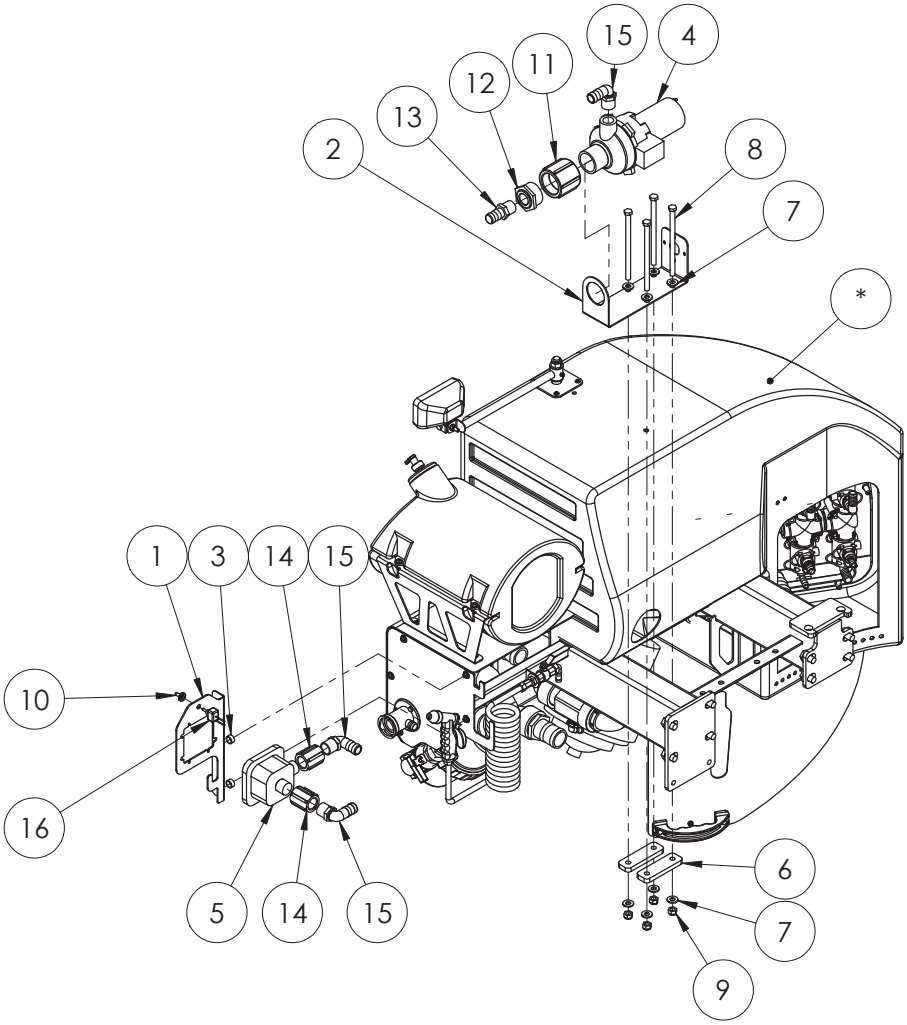


90-02324	Complete Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	90-02316	40D Flowmeter	1
B	346-BEC-2F755-C	Shut-off Valve (Optional)	1
C	75-30013	70 Series Flow Monitor	1
D*	45-05439	Harness from Monitor to Flowmeter	1
E*	45-05268	Power Supply Cable	1
F-1	FC200	2" Screw Clamp	2
F-2	GA5009335	Flange Gasket	2
G	M200BRB	Flange to 2" Hose Barb	2

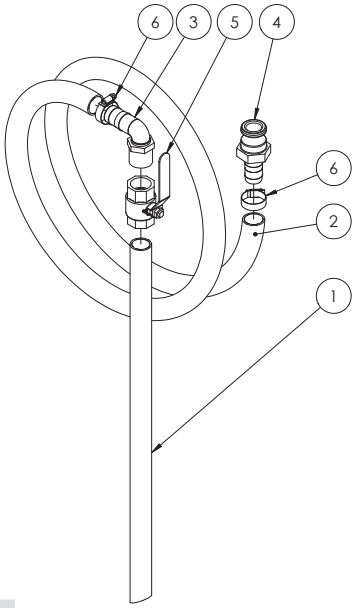
* Not shown in pictures

PH6 Pump Mounting Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523891	PH6 Flowmeter Mounting Plate	1
2	GA4523890	PH6 pump mount plate	1
3	GA4552070	crush tube 16.2x20.5x9.5	2
4	GA5068480	Flowserve PH6 pump only	1
5	GA5068485	Flow serve SEM 10 flowmeter to suit PH6 pump	1
6	F70107A	18mt ram bracket	2
7	GA5000587	M12 WASHER	8
8	GA5011223	Bolt M12 x 200 ZP GR 8.8 ZP	4
9	GA5012461	M12 Nyloc nut Z/P	4
10	GA5012175	Narva Water Proof Switch Cover B/P	1
11	CPLG200	2 poly pipe coupling	1
12	RB200-100	Poly Reducer Bushing 2 x 1	1
13	HB100	Hose Barb 1"	1
14	CPLG100	1" Poly Pipe Coupling	2
15	HB100-90	Hose barb 90 degree 1" Banjo	3
16	GA5016749	Switch toggle On/Off waterproof	1

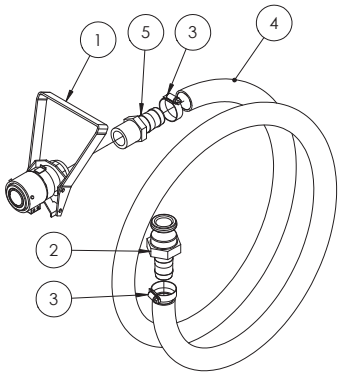
Chemical Probe



GA4948250 Complete Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5013603	PVC pipe 25mm cut 630mm	1
2	HOS25PVC - suit drum probe	PVC hose 25mm cut 3.2m	1
3	HB100-90	Hose barb 90 degree 1" Banjo	1
4	100E Male Adapter	1" Hose Shank	1
5	GA5018309	Ball valve 25mm FF Lever	1
6	GA5001681	1" SS hose clamp	2

Enviro coupling & hose

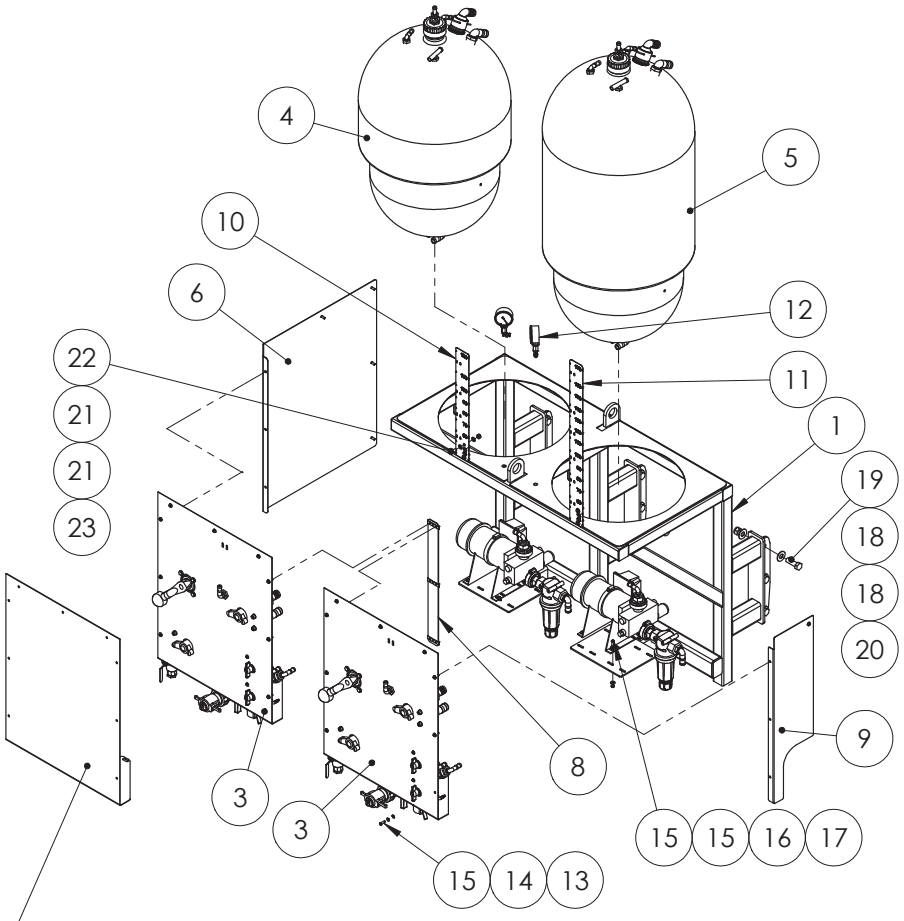


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018803	Coupler, 3 Pin, Viton Flow Control	1
2	100E Male Adapter	1" Hose Shank	1
3	GA5001681	1" SS hose clamp	2
4	HOS25PVC - suit enviro chem probe	PVC hose 25mm cut 2840m	1
5	HB100	Hose Barb 1"	1

Chapter 6

DCI

Direct Chemical Injection POD



GA4900807-PA-1 Single DCI unit
GA4900807-PA-2 Twin DCI unit

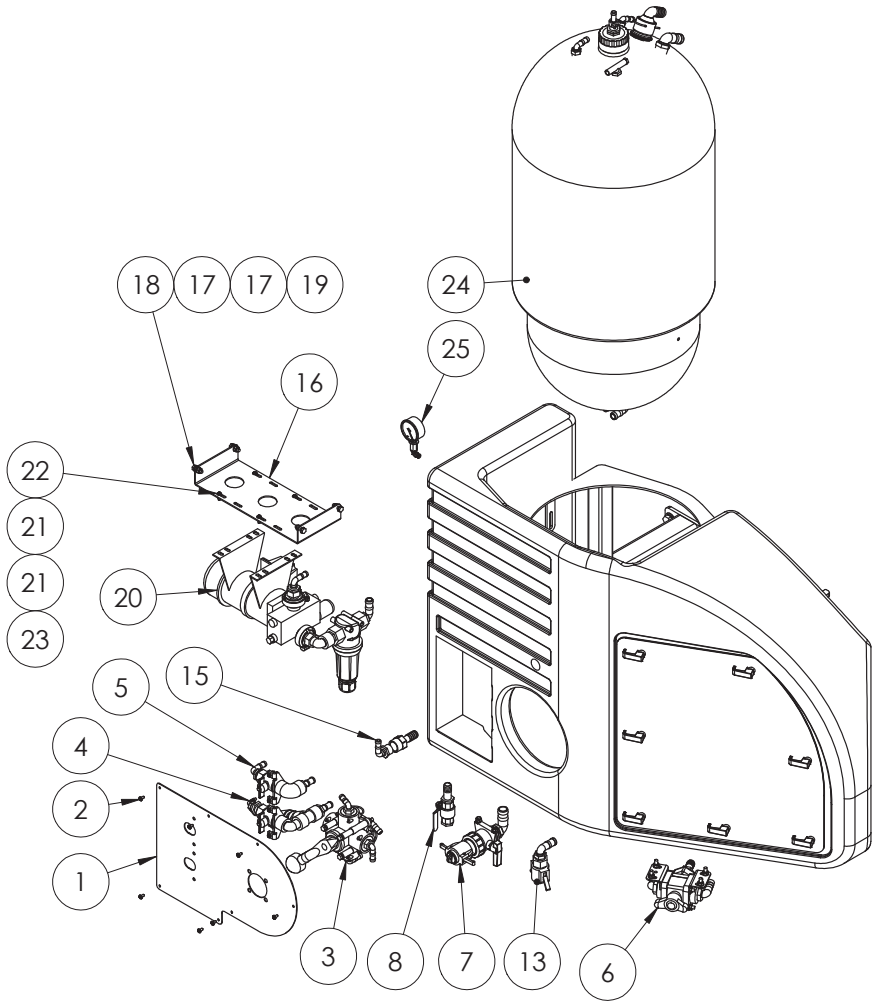
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656400	Direct injection frame suit narrow prairie advance	1
2	GA4900807-10	Direct injection pump subassembly	2
3	GA4900807-1	Direct Chemical Injection (DCI) cover plate assembly	2
4	GA4900807-8	direct chemical injection bottle layout	1
5	GA4900807-8a	direct chemical injection bottle layout	1

Continued over page

Direct Chemical Injection POD continued

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	GA4502230	Cover suit direct injection (2nd unit)	1
7	GA5066830	Speed clip M6	3
8	GA4900807-11	panel alignment strip subassembly	1
9	GA4533435	Panel DCI Front Bolt on	1
10	GA4523465	120L DCI level gauge	1
11	GA4523470	165L DCI level gauge	1
12	GA4900807-12	Vacuum gauge assem suit DCI	2
13	GA5004437	M6 SS Washer	23
14	GA5004447	M6 Spring washer SS	23
15	GA5004053	Bolt BHCS S'Steel M6x20	31
16	GA5017643	Washer 1/4 x 5/8 x 18g Flat SS	16
17	GA5048115	Nut nyloc M6	8
18	GA5001043	M16 SS washer	18
19	GA5000931	M16x50 bolt	9
20	GA5001029	M16 Nyloc nut	9
21	GA5004883	Washer 8mm SS	8
22	GA5011473	M8 x 25 BHCS SS	4
23	GA5052590	Nut M8 Nyloc S/S 316	4

Third DCI unit Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502225	3rd DCI panel suit RHS pod	1
2	GA5014821	Screw 12G x 1/2 Pan head SS	7
3	GA4900807-2	Valve subassembly	1
4	GA4900807-6	Tank vent ball valve subassembly	1
5	GA4900807-5	Tank rinse ball valve subassembly	1
6	GA4900807-3a	Chemical pump suction valve subassembly	1
7	GA4900807-7	Chem probe coupling ball valve subassembly	1
8	GA5018309	Ball valve 20mm FF Lever	1
9	PLUG075	3/4 poly plug	1
10	HB075	barb male 3/4"	1
11	HB075-90	hose barb elbow 3/4" thread 3/4" barb	1
12	075A	male cam lock 3/4" female	1
13	CAP075	Cap banjo 3/4"	1

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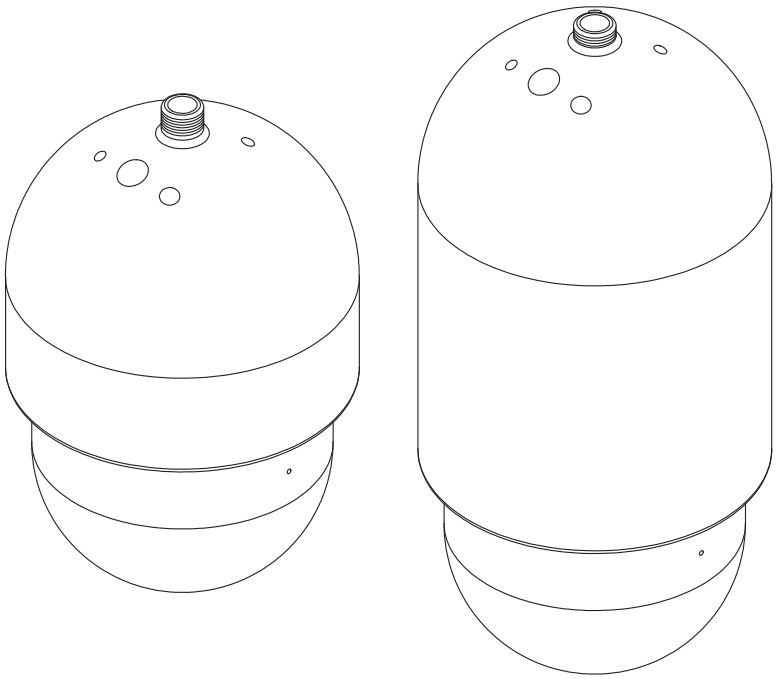
Third DCI unit Assembly

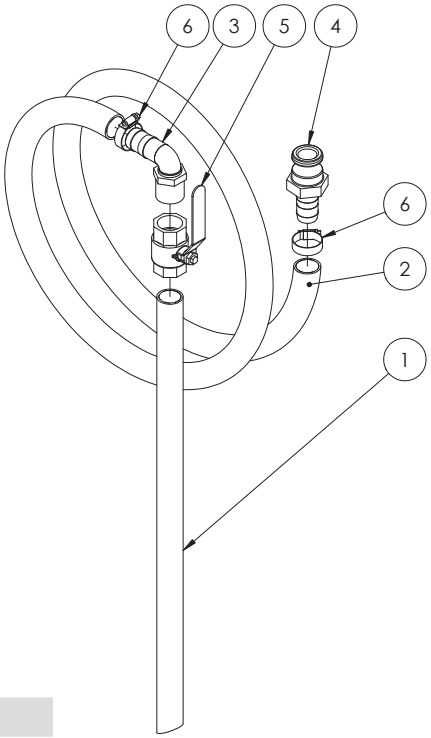
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	HBF075	Hose barb female 3/4"	1
15	HB075/050-90	Elbow male 3/4" thread 1/2" barb	1
16	GA4534670	DCI 3rd Pump Mount	1
17	GA5004883	Washer 8mm SS	8
18	GA5004711	M8x25 bolt	4
19	GA5004917	M8 Nyloc Nut	4
20	GA4900807-10a	Direct injection pump subassembly	1
21	GA5004437	M6 SS Washer	8
22	GA5004053	Bolt BHCS S'Steel M6x20	4
23	GA5048115	Nut nyloc M6	4
24	GA4900807-8a	direct chemical injection bottle layout	1
25	GA4900807-12	Vacuum gauge assem suit DCI	1

Direct Injection Tanks



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5020635	Tank 120L direct injection (white)	1
2	GA5018495	Tank 165 L Direct Injection (White)	1

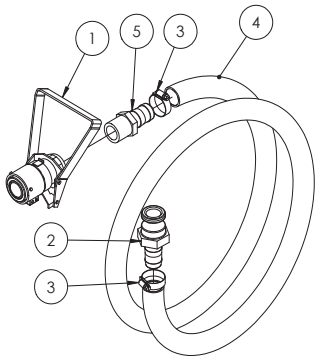
Chemical Probe



GA4948250 Complete Kit

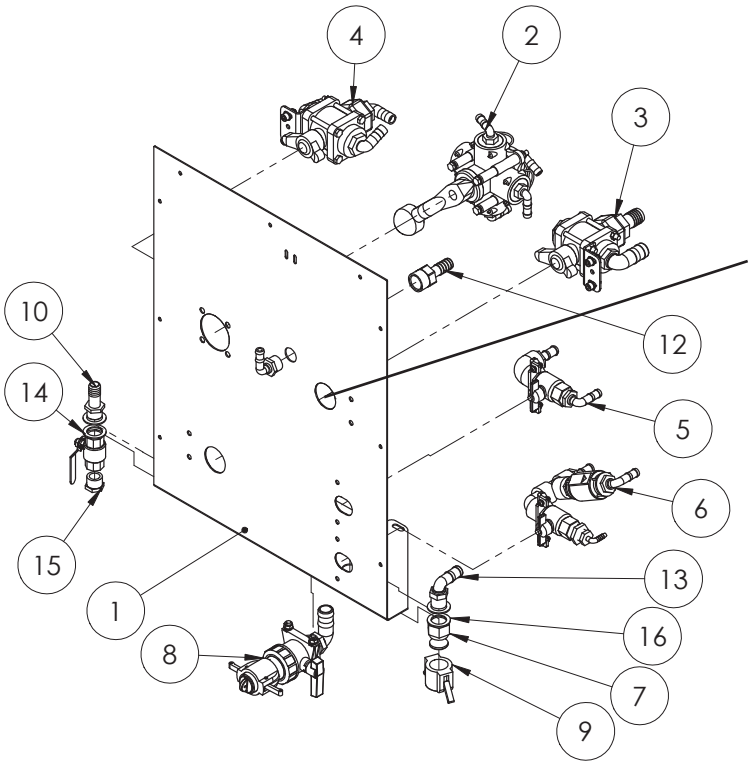
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5013603	PVC pipe 25mm cut 630mm	1
2	HOS25PVC - suit drum probe	PVC hose 25mm cut 3.2m	1
3	HB100-90	Hose barb 90 degree 1" Banjo	1
4	100E Male Adapter	1" Hose Shank	1
5	GA5018309	Ball valve 25mm FF Lever	1
6	GA5001681	1" SS hose clamp	2

Enviro coupling & hose



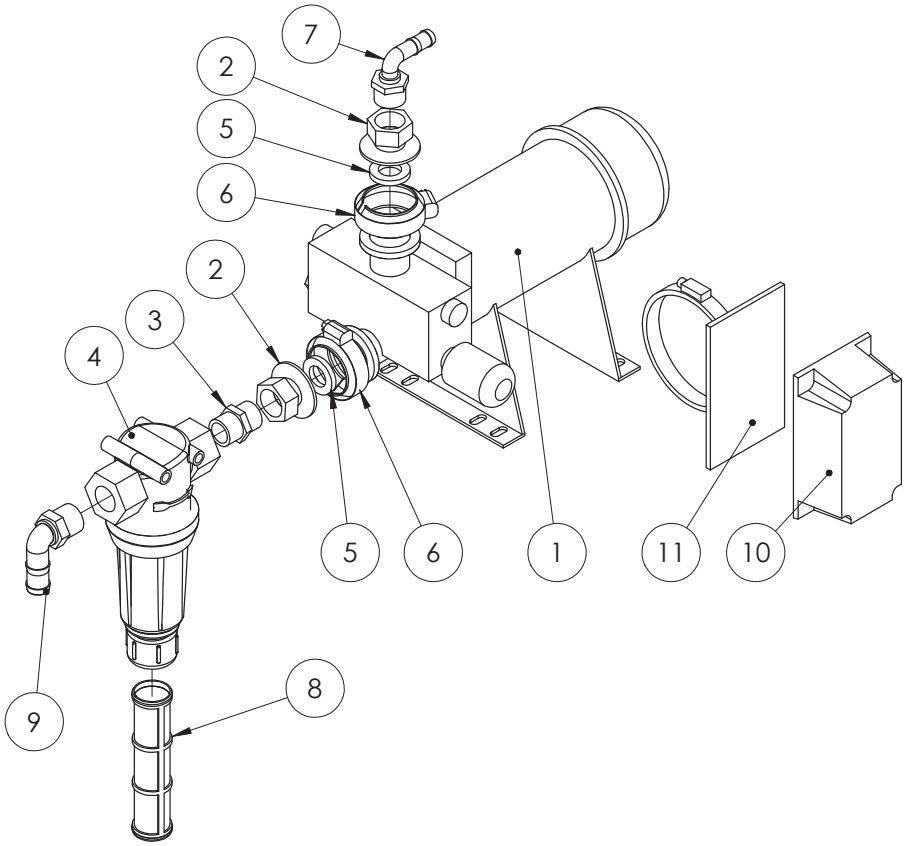
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018803	Coupler, 3 Pin, Viton Flow Control	1
2	100E Male Adapter	1" Hose Shank	1
3	GA5001681	1" SS hose clamp	2
4	HOS25PVC - suit enviro chem probe	PVC hose 25mm cut 2840m	1
5	HB100	Hose Barb 1"	1

Cover Plate Assembly



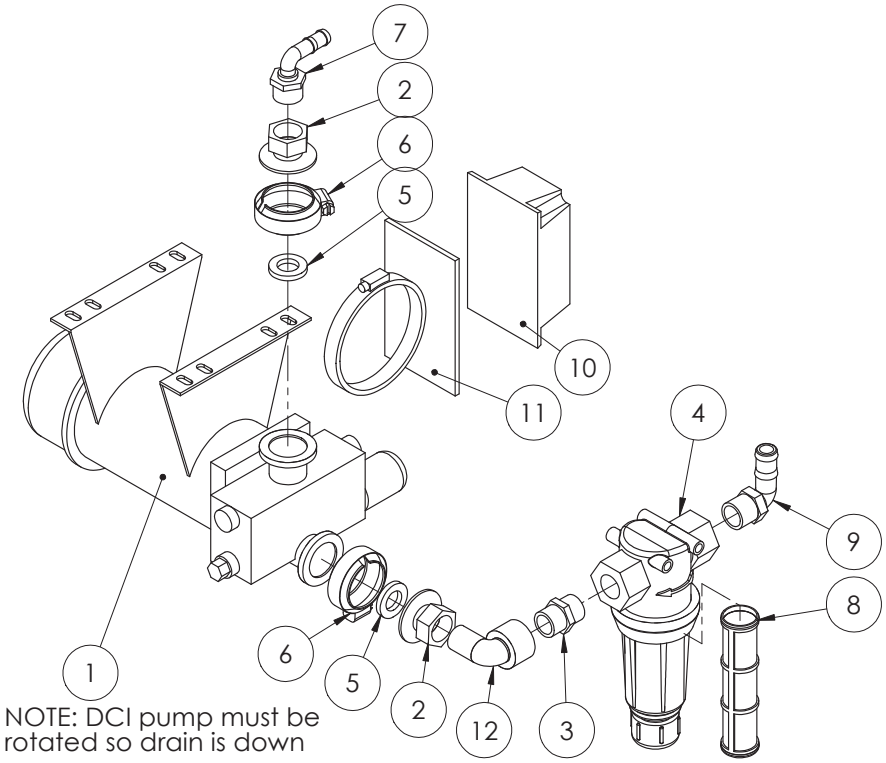
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502180	DCI blank cover plate	1
2	GA4900807-2	Valve subassembly	1
3	GA4900807-4	Chemical tank vacuum valve subassembly	1
4	GA4900807-3	Chemical pump suction valve subassembly	1
5	GA4900807-5	Tank rinse ball valve subassembly	1
6	GA4900807-6	Tank vent ball valve subassembly	1
7	075A	Male cam lock 3/4" female	1
8	GA4900807-7	Chem probe coupling ball valve subassembly	1
9	CAP075	Cap banjo 3/4"	1
10	HB075	Barb male 3/4"	1
11	HB075/050-90	Elbow male 3/4" thread 1/2" barb	1
12	HBF075	Hose barb female 3/4"	1
13	HB075-90	Hose barb elbow 3/4" thread 3/4" barb	1
14	GA5018309	Ball valve 20mm FF Lever	1
15	PLUG075	3/4 poly plug	1
16	GA4522315	Washer, general spacer	4

Injection Pump



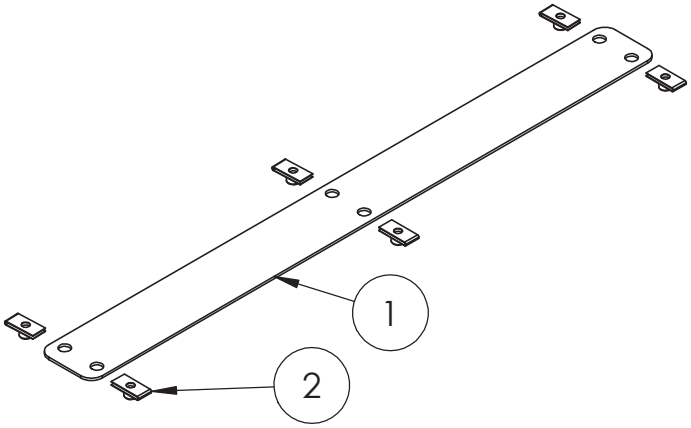
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	063-0172-428 063-0172-510	Injection pump 5-200oz/min - High Volume Injection pump 1-40oz/min - Low Volume	1
2	M100075FPT	Adapter banjo flange 1"- 3/4" female thread	2
3	NIP075SH	3/4" to 3/4" Male Nipple	1
4	AAB126ML-3-200	3/4 BSP filter with 200 Mesh screen	1
5	M100G	Gasket Banjo 100 series	2
6	FC100	clamp banjo 100 series	2
7	HB075/050-	90 Elbow male 3/4" thread 1/2" barb	1
8	CP16903-3-SSPP	30 Mesh Screen for DCI (Yellow)	1
9	HB075-90	hose barb elbow 3/4" thread 3/4" barb	1
10	0630172479	Raven DCI Pump Electrical node	1
11	1170159984	Raven DCI pump Node mount plate	1

Injection Pump



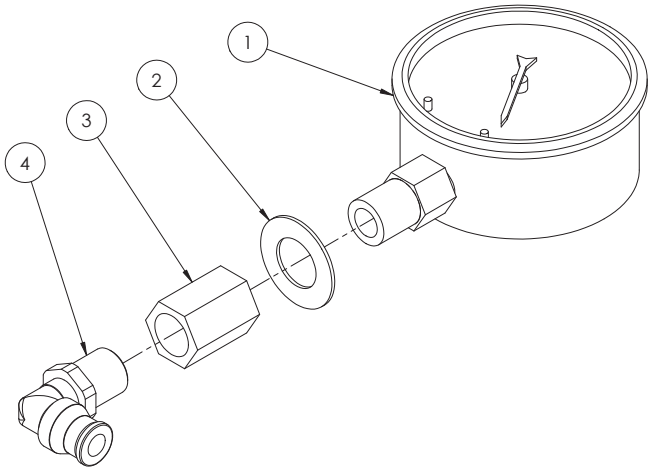
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	063-0172-428	injection pump 5-200oz/min	1
2	M100075FPT	Adapter banjo flange 1"- 3/4" female thread	2
3	NIP075SH	3/4" to 3/4" Male Nipple	1
4	AAB126ML-3-200	3/4 BSP filter with 200 Mesh screen	1
5	M100G	Gasket Banjo 100 series	2
6	FC100	clamp banjo 100 series	2
7	HB075/050-90	Elbow male 3/4" thread 1/2" barb	1
8	CP16903-3-SSPP	30 Mesh Screen for DCI (Yellow)	1
9	HB075-90	hose barb elbow 3/4" thread 3/4" barb	1
10	0630172479	Raven DCI Pump Electrical node	1
11	1170159984	Raven DCI pump Node mount plate	1
12	SL075-90	Street elbow 3/4" male-3/4" female 90 deg	1

Panel Alignment Strip



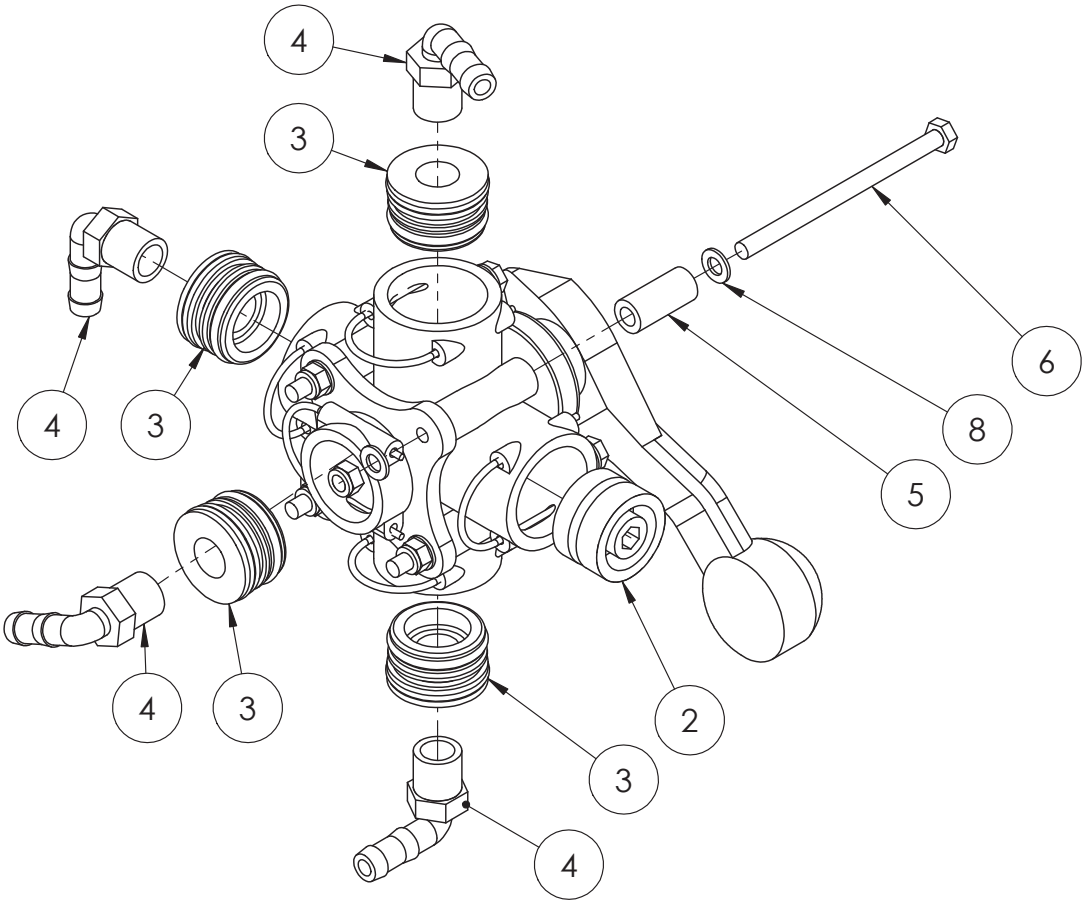
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502235	direct injection alignment strip	1
2	GA5066830	Speed clip M6	6

Vacuum gauge



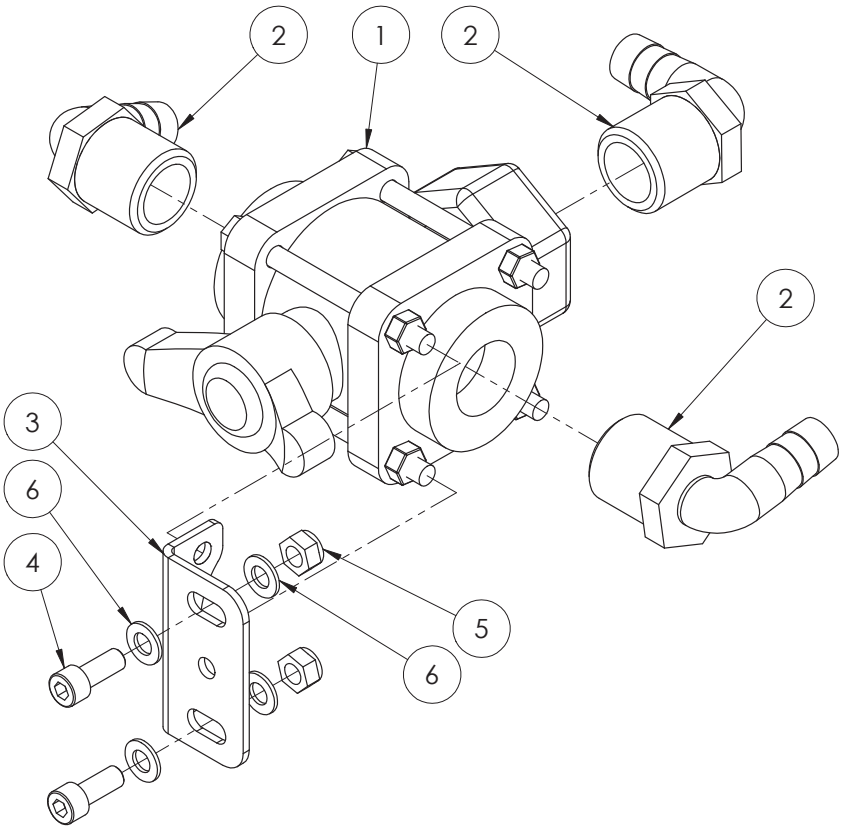
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5051030	Vacuum gauge 100kPa	1
2	GA5017641	1/2" thin flat washer	1
3	GA5066940	1/4" BSPP Socket Brass	1
4	GA5016235	Swivel Elbow push in Brass 10x1/4 BSP	1

Valve sub assembly



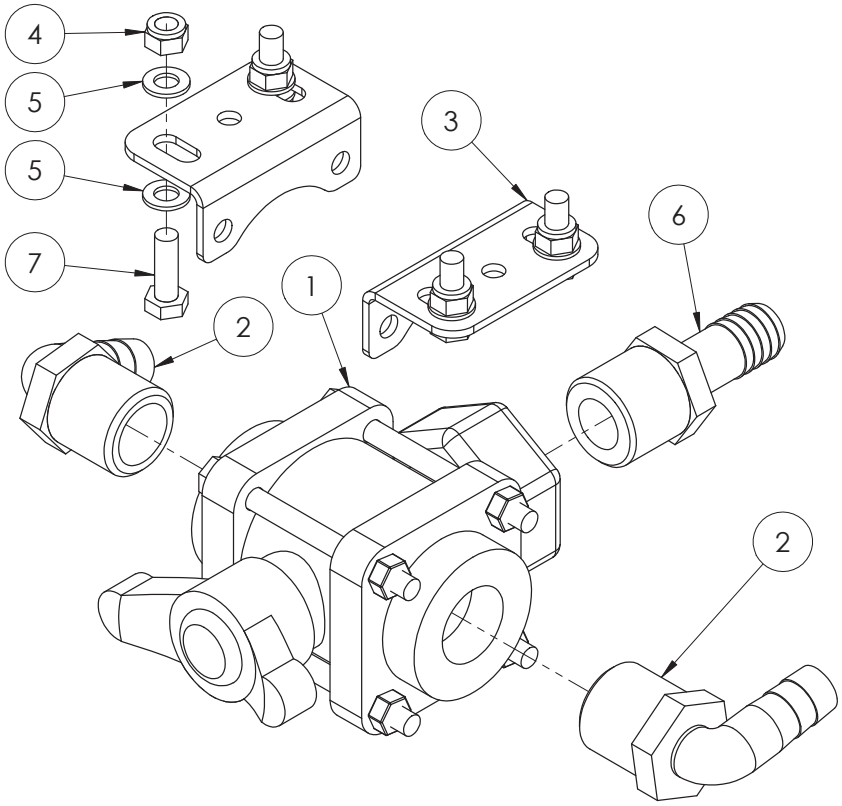
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065530	ball valve 5 WAY 1 1/4"	1
2	GA5065680	Blind cap Plug AS40	1
3	GA4582345	Dummy plug AS40 G1/2 female	4
4	HB050-90	Hose Barb Elbow 1/2	4
5	GA4552135	Spacer for Altek Rotary valve	4
6	GA5011501	M8x120 Bolt	4
7	GA5004917	M8 Nyloc Nut	4
8	GA5004883	Washer 8mm SS	8
	GA5065531	Replacement handle only	1

Chemical pump suction valve



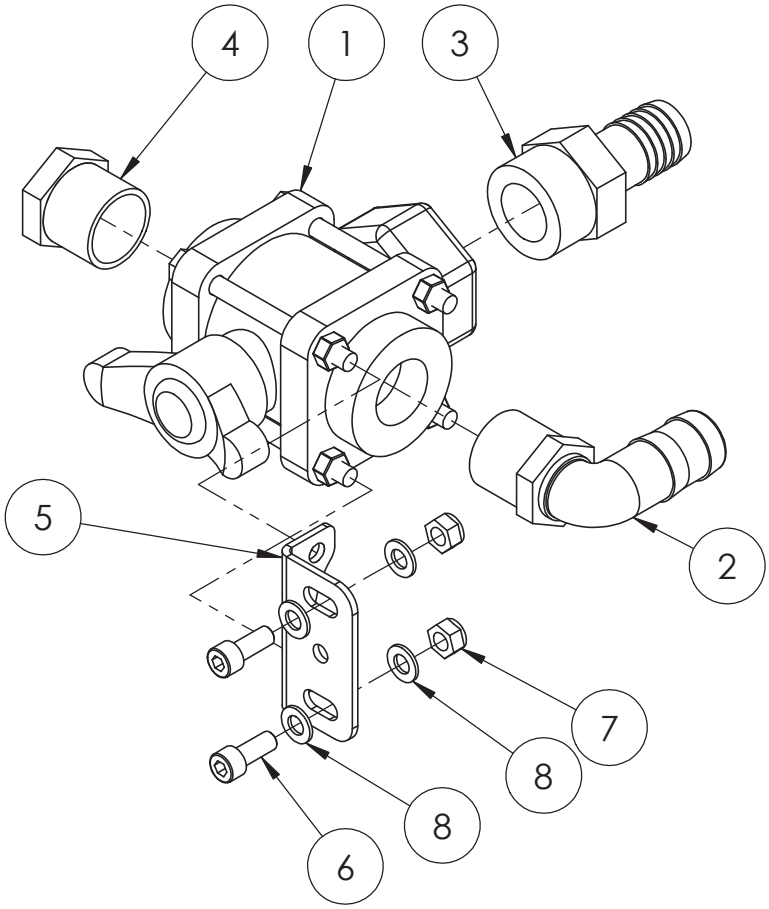
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	V-100-BL	Banjo bottom load ball valve 1"	1
2	HB100-075-90	1"MPT X 3/4"Hose Shank-90 Deg	3
3	GA4502210	ball valve mounting plate	1
4	GA5004707	M8x20 unbrako	2
5	GA5004917	M8 Nyloc Nut	2
6	GA5004883	Washer 8mm SS	4

Chemical pump suction valve



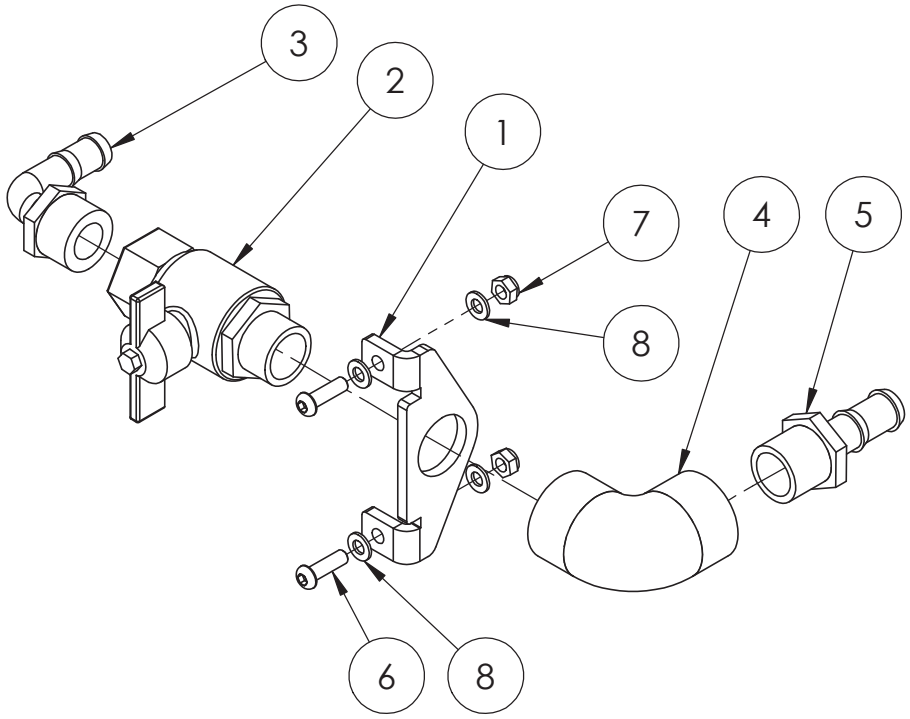
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	V-100-BL	Banjo bottom load ball valve 1"	1
2	HB100-075-90	1"MPT X 3/4"Hose Shank-90 Deg	2
3	GA4502210	ball valve mounting plate	2
4	GA5004917	M8 Nyloc Nut	4
5	GA5004883	Washer 8mm SS	8
6	HB075	1" male thread x 3/4" barb	1
7	GA5004711	M8x25 bolt	4

Chemical tank vacuum valve



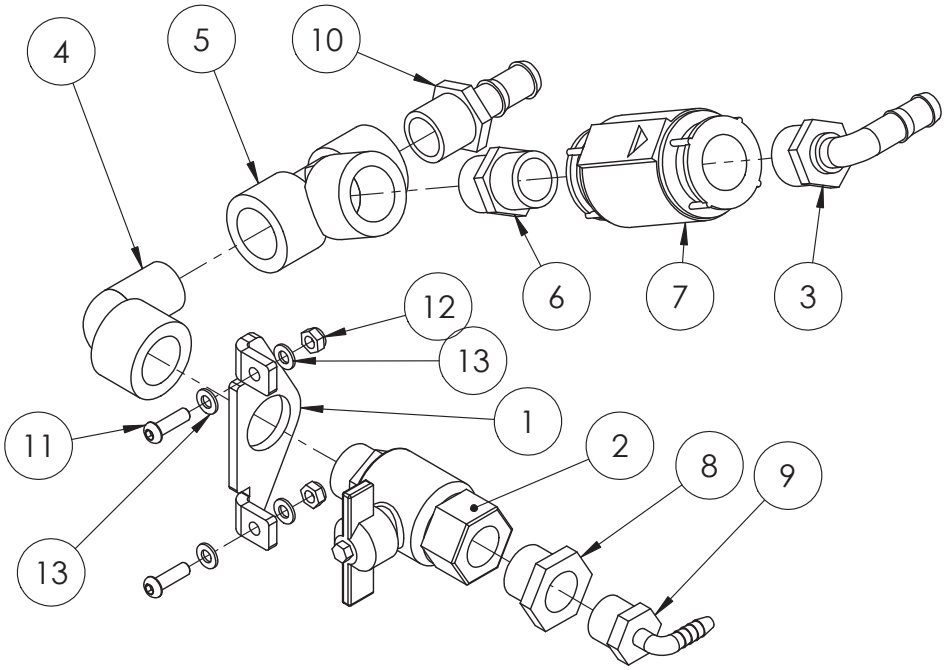
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	V-100-BL	Banjo bottom load ball valve 1"	1
2	HB100-90	Hose barb 90 degree 1" Banjo	1
3	HB100	Hose Barb 1" Banjo	1
4	PLUG100	Plug 1" Banjo	1
5	GA4502210	ball valve mounting plate	1
6	GA5004707	M8x20 unbrako	2
7	GA5004917	M8 Nyloc Nut	2
8	GA5004883	Washer 8mm SS	4

Tank rinse ball valve



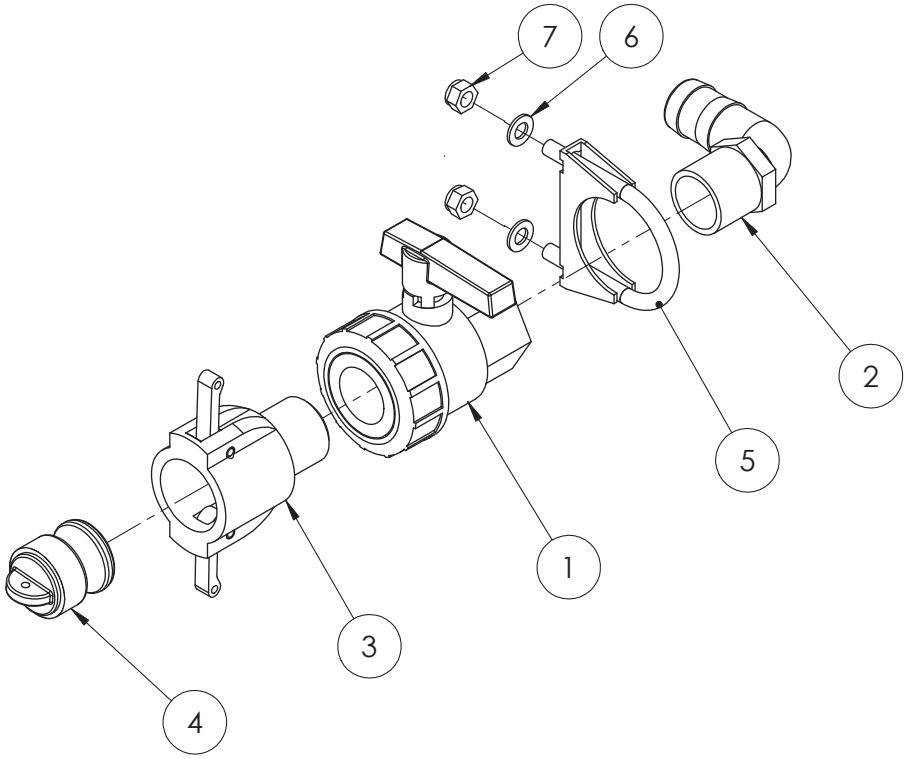
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70648A	Tap mounting plate	1
2	GA5018315	Ball Valve Male / Female TEE 3/4"	1
3	HB075/050-90	Elbow male 3/4" thread 1/2" barb	1
4	EL075-90	3/4" poly pipe elbow 90 degree	1
5	HB075-050	Hose barb 3/4" M thread, 1/2" barb	1
6	GA5004053	Bolt BHCS S'Steel M6x20	2
7	GA5048115	Nut nyloc M6	2
8	GA5004437	M6 SS Washer	4

Tank vent ball valve



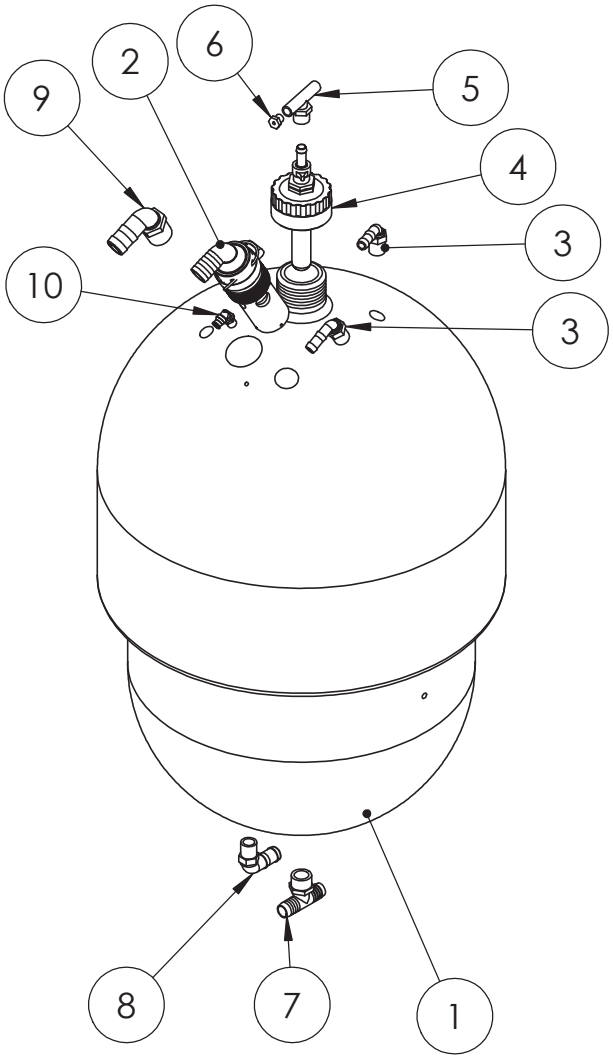
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70648A	Tap mounting plate	1
2	GA5018315	Ball Valve Male / Female TEE 3/4"	1
3	HB050-90	1/2” elbow	1
4	SL075-90	Street elbow 3/4" male-3/4" female 90 deg	1
5	TEE075	Tee female 3/4"	1
6	RN075050	3/4" to 1/2" Male Nipple	1
7	GA5051380	Non return valve steel 1/2"	1
8	RB075-050	Reducing bush 3/4"x1/2"	1
9	EL1214	Elbow Male Taper x Hose Barb 1/2x1/4	1
10	HB075-050	Hose barb 3/4" M thread, 1/2" barb	1
11	GA5004053	Bolt BHCS S'Steel M6x20	2
12	GA5048115	Nut nyloc M6	2
13	GA5004437	M6 SS Washer	4

Chemical probe coupling ball valve



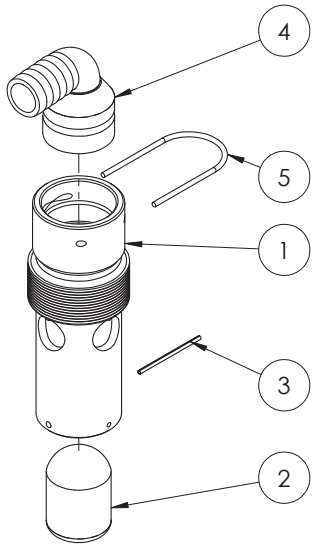
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	UV100FP	Ball Valve Banjo 1"	1
2	HB100-90	Hose barb 90 degree 1" Banjo	1
3	100B	Cam lock female coupler male thread 1"	1
4	100PL	plug Banjo 1"	1
5	GA5006705	Exhaust clamp C8 2"	1
6	GA5004883	Washer 8mm SS	2
7	GA5052590	Nut M8 Nyloc S/S 316	2

DCI bottle



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5020635	Tank 120L direct injection (white)	1
2	GA4900807-9	fill shut off assembly	1
3	HB-050-90	barb male elbow 3/4"	2
4	GA4903050	Rinse nozzle and cap complete	1
5	T12T	barb male tee (1 x 1/2" thread, 2 x 1/2" barbs)	1
6	A1814	hose barb 1/8" thread 1/4" barb cut off as restrictor	1
7	T34T	Tee Barb 3/4 Thread	1
8	HB050/075-90	90' Poly Hose Barb Elbow 1/2 x 3/4	1
9	HB100-90	Hose barb 90 degree 1" Banjo	1
10	GA5016235	Swivel Elbow push in Brass 10x1/4 BSP	1

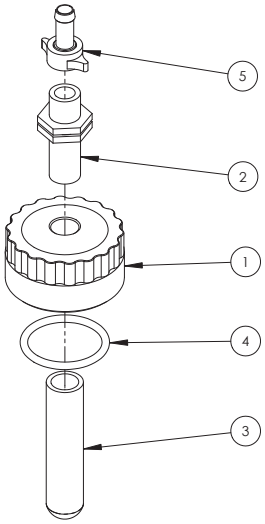
Fill shut off assembly



GA4900807-9 Complete Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4552140	Venturi fill stop housing	1
2	GA5066840	Ball float	1
3	GA5066835	roll pin 2.5x50mm	1
4	GA5065615	Plug in hose tail AS40/25/90 degree	1
5	GA5065690	Safety pin AS40	1

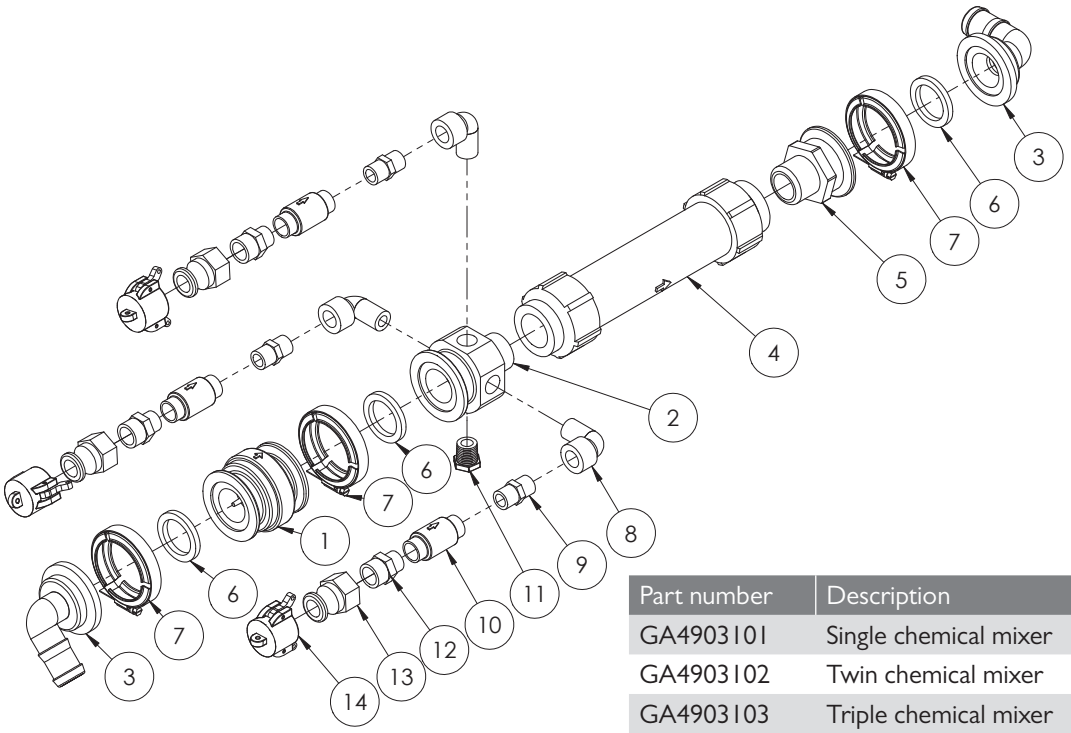
Rinse Nozzle & Cap



GA4903050 Complete Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L055A	Transcal Cap	1
2	2502021	1/2" Nipple Long	1
3	510110	Rinsing nozzle 1/2” F thread	1
4	GA5009187	O Ring suit exacta tank cap 50X5	1
5	006330	Brass Nut & Tail 13mm with 1/2 BSP hose fitting	1

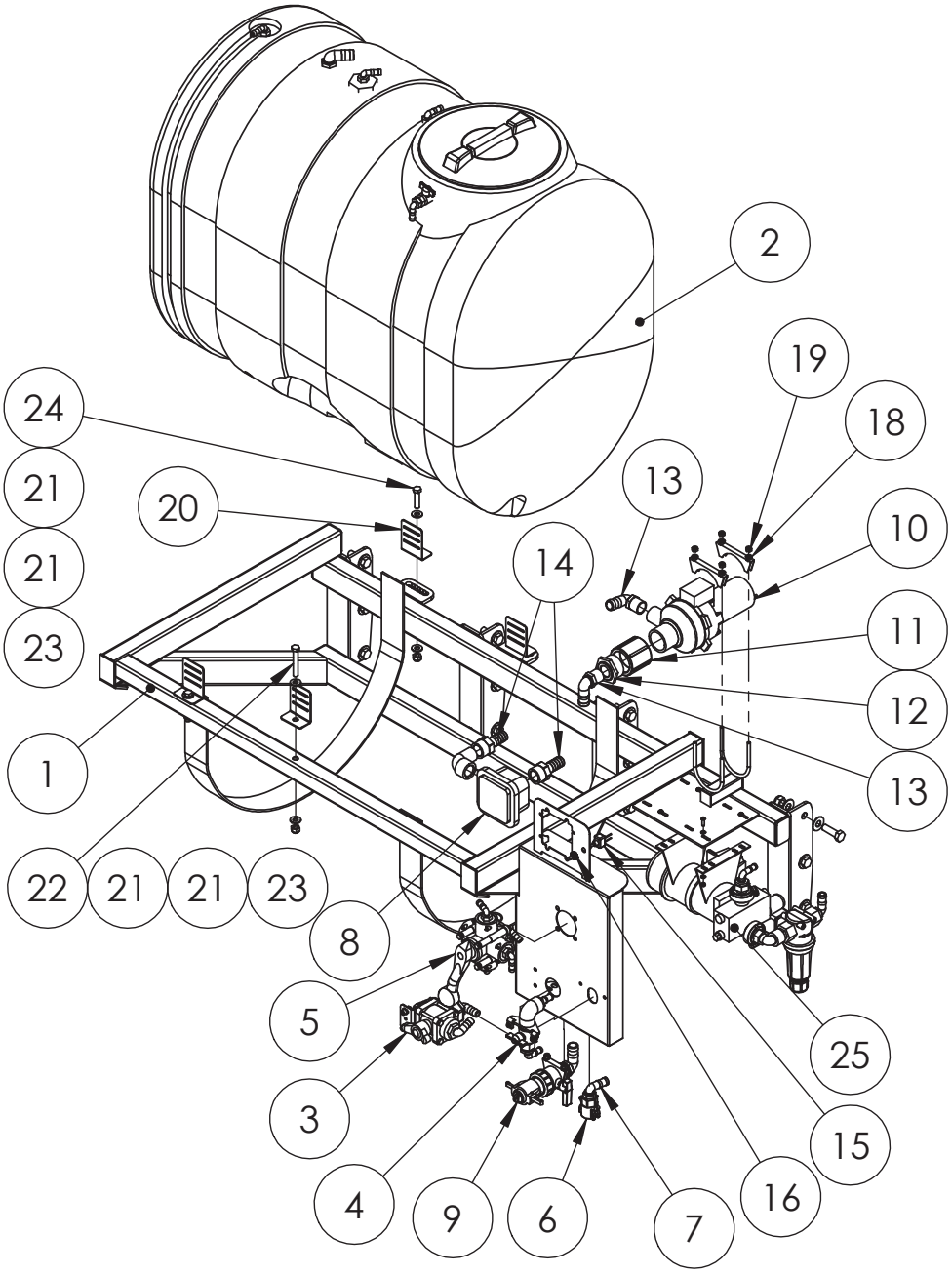
Mixing Chamber



Part number	Description
GA4903101	Single chemical mixer
GA4903102	Twin chemical mixer
GA4903103	Triple chemical mixer

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MCV200	2" Banjo Check valve	1
2	GA4572025	Tee 2" flange 1-1/4" male 1/2" female	1
3	M200125BRB90	2"Manifold X 1-1/4 Barb 90 Deg	2
4	0630159632	MIXER FLOW ASY 1 1/4NPT	1
5	M200125MPT	Manifold 2"FLG X 1-1/4" MPT	1
6	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT150	3
7	FC200	Screw clamp	3
8	SL050-90	1/2" Street Elbow	3
9	GA5048310	1/2" Brass Nipple	3
10	3330011088	1/2 inch SS check valve	3
11	PLUG050	Pipe Plug 1/2	1
12	13 male cam lock 3/4" female 3 Reducing nipple 3/4" to 1/2"		
13	75CAP	075A CAP (FITS 1/2" & 3/4" CPLG'S)	
14	RN075-050	3	

Bulk DCI 600lt module



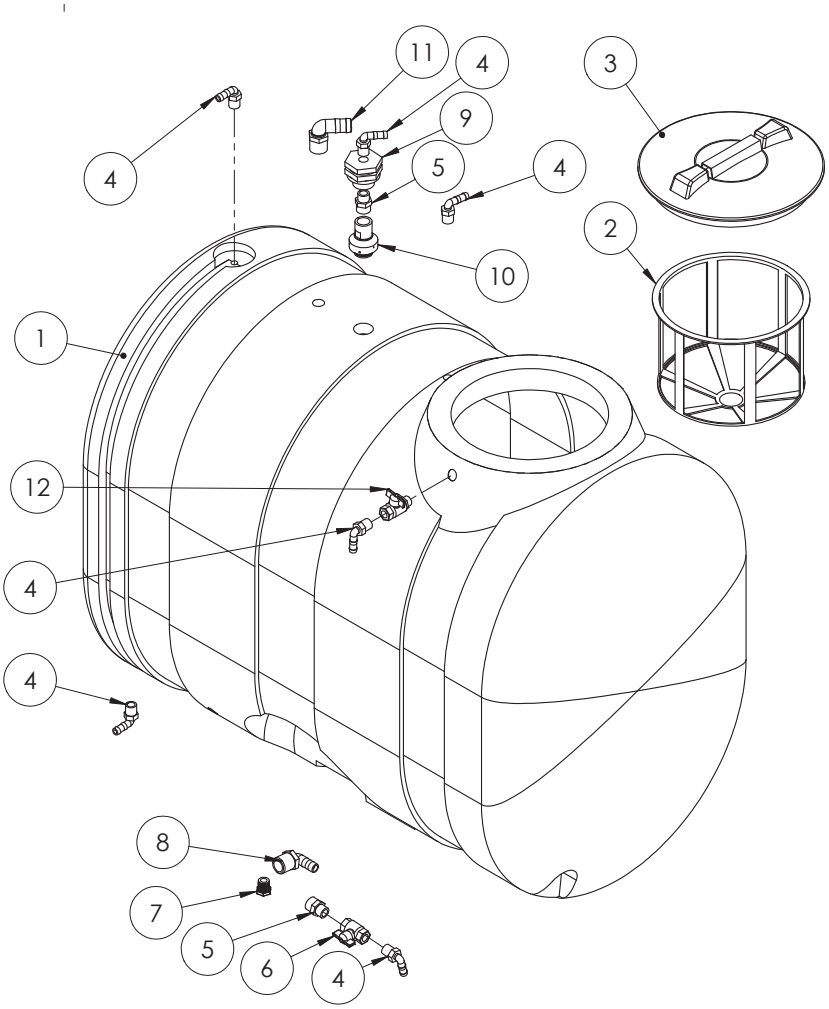
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657460	Bulk DCI 600L frame 2011	1
2	GA4903294-01	Bulk DCI with 600L tank assem	1
3	GA4900807-3	Chemical pump suction valve subassembly	1
4	GA4900807-5	Tank rinse ball valve subassembly	1
5	GA4900807-2	Valve subassembly	1
6	75D	female Coupler 3/4 female thread	1

Continued over page

Bulk DCI 600lt module

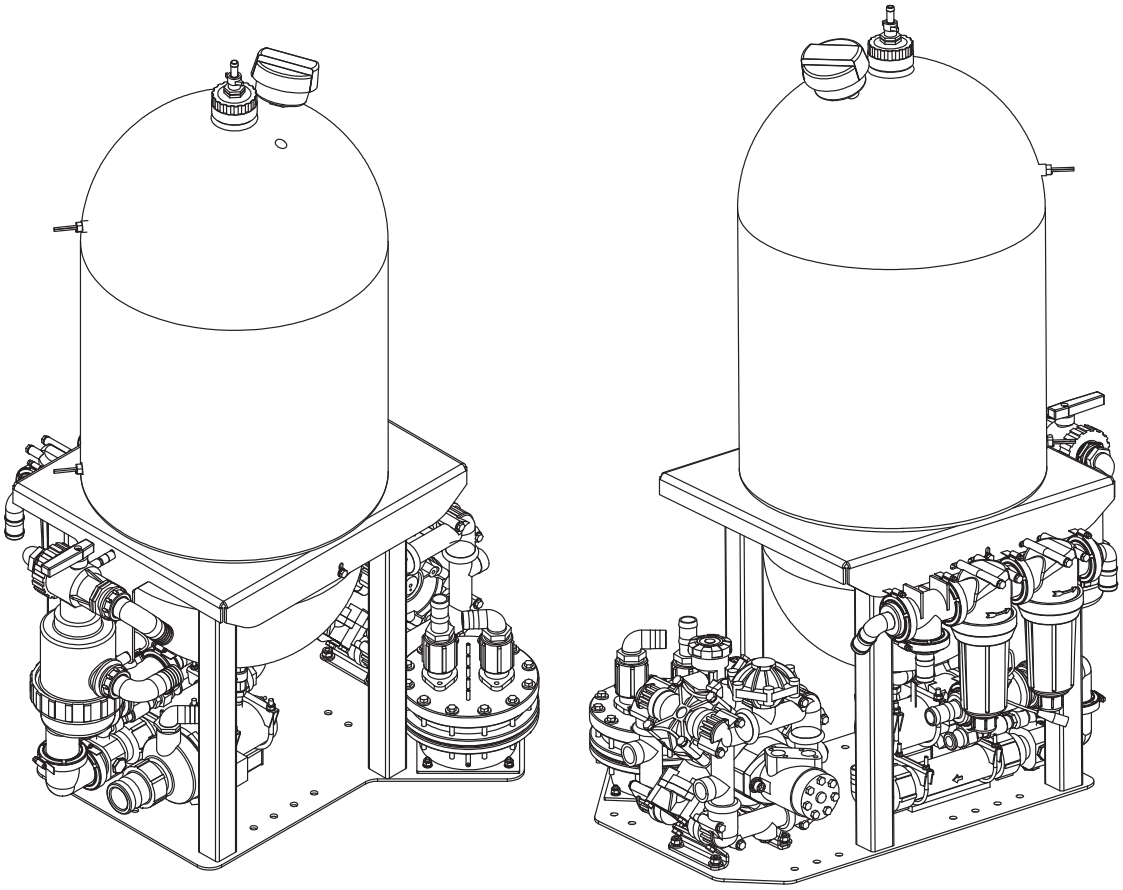
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	HB075-90	hose barb elbow 3/4" thread 3/4" barb	1
8	GA5068485	Flow serve SEM 10 flowmeter to suit PH6 pump	1
9	GA4900807-7	Chem probe coupling ball valve subassembly	1
10	GA5068480	Flowserve PH6 pump only	1
11	CPLG200 2	poly pipe coupling	1
12	RB200-100	Poly Reducer Bushing 2 x 1	1
13	HB100-90	Hose barb 90 degree 1" Banjo	2
14	HBF100	Female Hose Barb 1"	2
15	GA5016749	Switch toggle On/Off waterproof	1
16	GA5012175	Narva Water Proof Switch Cover B/P	1
17	SL100-90	Street Elbow 1" Poly	1
18	GA5004883	Washer 8mm SS	4
19	GA5052590	Nut M8 Nyloc S/S 316	4
20	F70127A	50mm Tank Strap Bracket	4
21	GA5000587	M12 WASHER	8
22	GA5000355	M12x80 bolt	2
23	GA5012461	M12 Nyloc nut Z/P	4
24	GA5011239	M12x50 bolt	2
25	GA4900807-10a	Direct injection pump subassembly	1
26	GA5004437	M6 SS Washer	8
27	GA5004053	Bolt BHCS S'Steel M6x20	4
28	GA5048115	Nut nyloc M6	4
29	GA5001043	M16 SS washer	24
30	GA5000931	M16x50 bolt	12
31	GA5001029	M16 Nyloc nut	12

Bulk DCI 600lt



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4901128	Tank, 600 Litre	1
2	300120	Basket Filter D 302 x 254	1
3	352040	Medium Lid D355 c/w Breather	1
4	HB050-90	Hose Barb Elbow 1/2	6
5	RN075-050	Reducing nipple 3/4" to 1/2"	2
6	GA5018307	1/2" FF Tee Ball valve	1
7	PLUG050	Pipe Plug 1/2	1
8	HB100-075-90	1"MPT X 3/4"Hose Shank-90 Deg	1
9	TF050	1/2" Poly Bulkhead	1
10	B55270-34-18	Tank rinse nozzle 3/4 BSP	1
11	HB100-90	Hose barb 90 degree 1" Banjo	1
12	GA5020615	1/2" ball valve	1

Batch Mate Module



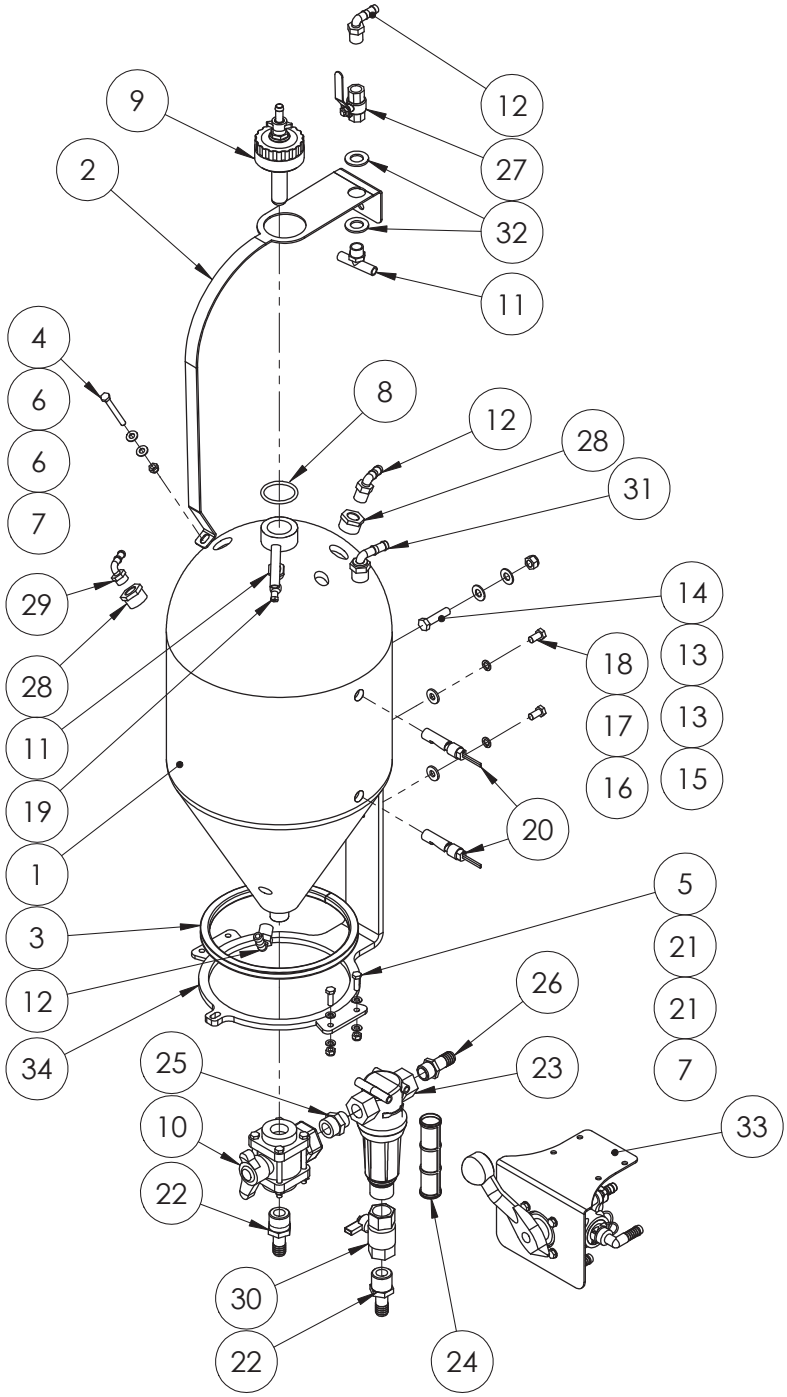
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657465	DCI batch tank frame	1
2	RO160MI	160 l/min pump Hyd drive	1
3	GA5068480	Flowserve PH6 pump only	1
4	GA5010315	Ramsay valve	1
5	AAB126ML-F75-100	Flange filter with 100 Mesh screen	1
6	AAB126ML-F75-80	Flange filter with 80 Mesh screen	1
7	316063	Suction Filter 1 1/2 S.T. 50 Mesh	1
8	4542236	3-WAY BALL VALVE 1"1/2	1
9	2502060	1 1/2" Plastic Nipple	1
10	116640	1 1/2" Poly Elbow to suit Fly Nut	2
11	2002060	1 1/2" Fly Nut	2
12	RB150125	Reducing bush 1 ½" to 1 1/4"	1
13	HB125-90	90' Poly Hose Barb Elbow 1 1/4	4

Continued over page

Batch Mate Module

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	0630159632	MIXER FLOW ASY 1 1/4NPT	1
15	GA4572025	Tee 2" flange 1-1/4" male 1/2" female	1
16	PLUG050	Pipe Plug 1/2	3
17	0630171793	FLOWMETER RFM-60P	1
18	M200125BRB90	2"Manifold X 1-1/4 Barb 90 Deg	2
19	M200CPG90SH	2" MANIFOLD COUPLING X 90-SHORT	2
20	M200TEE	2" Flanged Tee Fitting	1
21	MCV200	2" Banjo Check valve	1
22	M200125BRB	1 1/4" Hose barb to flange	2
23	SL050-90	1/2" Street Elbow	1
24	GA5048310	1/2" Brass Nipple	2
25	RN-050-075	Reducing Nipple 1/2" x 3/4"	1
26	075A	male cam lock 3/4" female	1
27	3330011088	1/2 inch SS check valve	1
28	200A	Male Adapter 2 female Thread	1
29	HB100-125-90	1"MPT X 1-1/4"Hose Shank-90Deg	1
30	GA5006689-1	Exhaust clamp base 66mm C12	2
31	CPLG125	Coupling poly 1 1/4	2
32	HB125	1-1/4" MPT X 1-1/4" Hose Shank	1
33	GA5018495	Tank 165 L Direct Injection (White)	1
34	GA4903050	Rinse nozzle and cap complete	1
35	GA5005259	Air Filter	1
36	GA5060465	Floating sensor switch	1
37	GA5004883	Washer 8mm SS	222
38	GA5052590	Nut M8 Nyloc S/S 316	12
39	GA5004437	M6 SS Washer	4
40	GA5048115	Nut nyloc M6	4
41	GA5004919	M8 Spring washer SS	10
42	GA5011503	M8 x 140mm Bolt	4
43	GA5004711	M8x25 bolt	3
44	GA5004727	M8x50 Bolt	1
45	GA5048655	M8x40 bolt	2
46	GA4552075	crush tube 10.2x15x15	4
47	GA5018309	12mm Ball valve	1
48	HB050	1/2" Hose Barb	1
49	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT1 50	11
50	FC200	Screw clamp	9
51	GA5000117	Washer 10mm SS Heavy duty	4
52	GA5000137	Washer 10mm Spring S/S	4
53	GA5000141	M10 Nyloc Nut	4

Direct Draw DCI Reserve Tank



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4901047	45L transcal tank	1
2	F70623A	TRANSCAL BOTTLE STRAP BENT	1
3	GA5010085	Hollow rectangular rubber cut 691mm	1
4	GA5004749	M8x80 Bolt	1
5	GA5004711	M8x25 bolt	2

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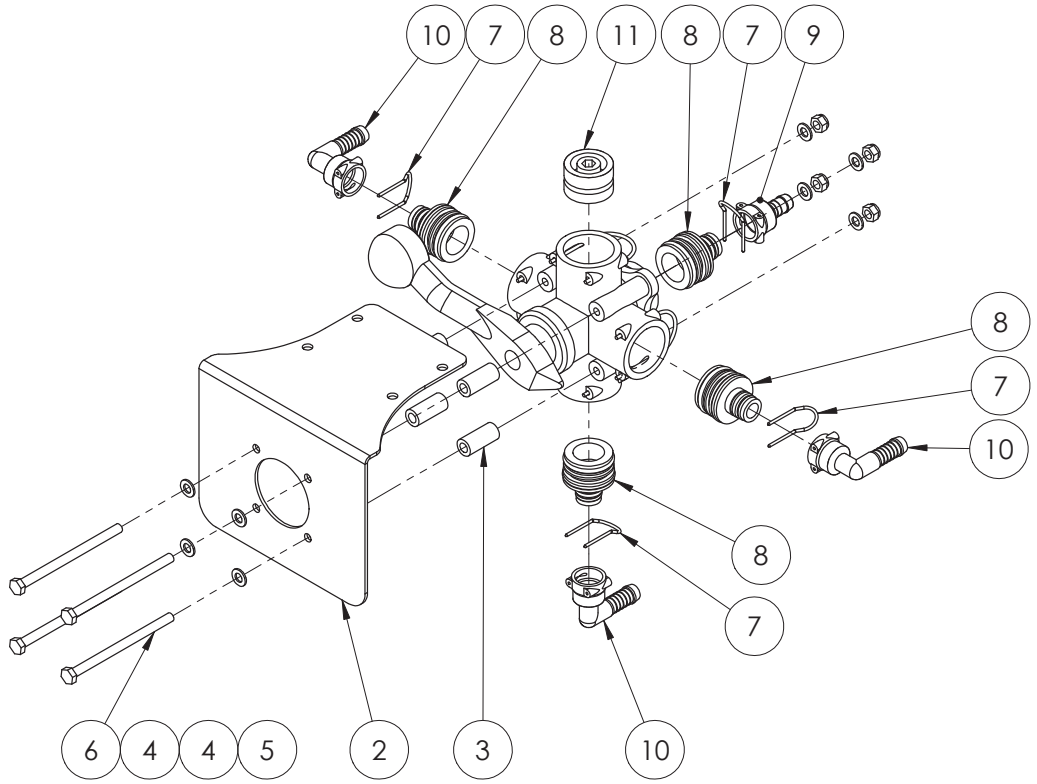
Direct Draw DCI Reserve Tank

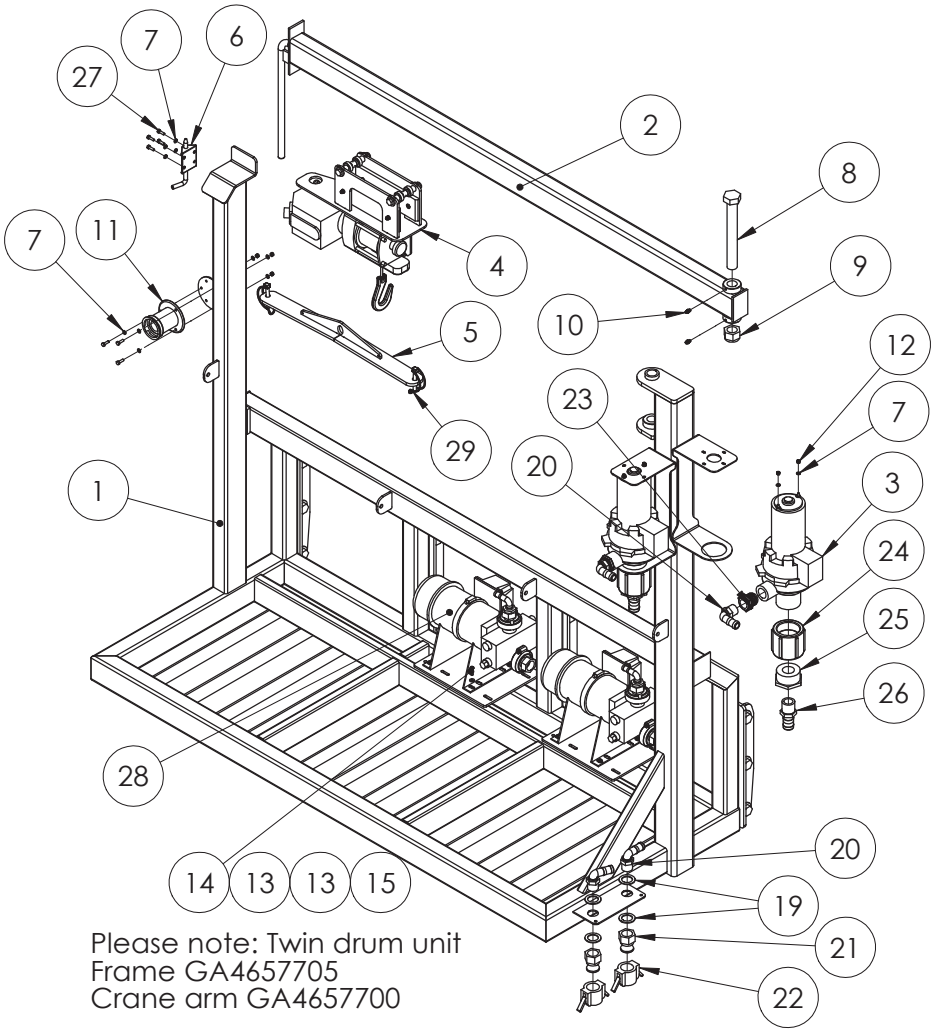
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	GA5004883	Washer 8mm HD	2
7	GA5004917	M8 Nyloc Nut	3
8	GA5009187	O Ring suit exacta tank cap 50X5	1
9	L055AC	Rinse nozzle and cap complete	1
10	V-100-BL	Banjo bottom load ball valve 1"	1
11	T12T	barb male tee (1 x 1/2" thread, 2 x 1/2" barbs)	2
12	HB050-90	Hose Barb Elbow 1/2	3
13	GA5000587	Washer HD ZP 12mm	2
14	GA5011239	M12x50 bolt	1
15	GA5012461	M12 Nyloc nut Z/P	1
16	GA5000117	Washer 10mm SS Heavy duty	2
17	GA5000137	Washer 10mm Spring S/S	2
18	GA5006113	Bolt M10x20 ZP 8.8	2
19	GA5020695	1/8" Brass Hose Barb with Barb Removed	1
20	GA5060465	Floating sensor switch	2
21	GA5004883	Washer 8mm SS	4
22	HB075	1" male thread x 3/4" barb	2
23	AAB126ML-3-200	3/4 BSP filter with 200 Mesh screen	1
24	CP16903-3-SSPP	30 Mesh Screen for DCI (Yellow)	1
25	RN100075	Reducing nipple 1" to 3/4"	1
26	HB075	barb male 3/4"	1
27	GA5018309	12mm Ball valve	1
28	RB100050	Poly Pipe Reducer Bush 1 x 1/2	2
29	HB050-038-90	1/2"MPT X 3/8"Hose Shank-90Deg	1
30	GA5018307	1/2" FF Tee Ball valve	1
31	HB075-050-90	3/4"MPT X 1/2"Hose Shank-90Deg	1
32	GA5001739	M20 Heavy Duty Flat Washer	2
33	GA4903296-01-1	4 way tap assembly suit DCI direct draw	1
34	GA4657461	Direct draw bottle holder	1

4 way tap assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065530	Ball valve 5 WAY 1 1/4"	1
2	GA4657715	Direct draw 4 way tap mount	1
3	GA4552135	Spacer for Altek Rotary valve	5
4	GA5004883	Washer 8mm SS	8
5	GA5004917	M8 Nyloc Nut	4
6	GA5011501	M8x120 Bolt	4
7	GA5065695	AS24 Safety Pin	4
8	GA5065605	AS40 to AS24	4
9	GA5065745	Female Hose AS24/15	1
10	GA5065750	female hose tail AS24/15/90	3
11	GA5065680	Blind cap Plug AS40	1
	GA5065531	Replacement Handle	1

DCI Direct Draw Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657706	Enviro DCI Frame suit 3 unit	1
2	GA4657701	Enviro DCI Boom Arm suit 3 unit	1
3	GA5068480	Flowserve PH6 pump only	2
4	GA4903296-02-01	Winch mount assem	1
5	GA4657707	Enviro DCI crane attachment	1
6	GA5010813	Latch spring Bolt	1
7	GA5003983	M5 washer ss	14
8	GA5006151	1" x 8" UNF Bolt	1
9	GA5012445	Nut nyloc 1" UNF	1
10	GA5012203	Grease Nipple 1/4" UNF Short	2
11	GA5018800	Rinsing socket 3 pin EPDM	1
12	GA5003975	M5 Nyloc nut SS	7
13	GA5004437	M6 SS Washer	16
14	GA5004053	Bolt BHCS S'Steel M6x20	8

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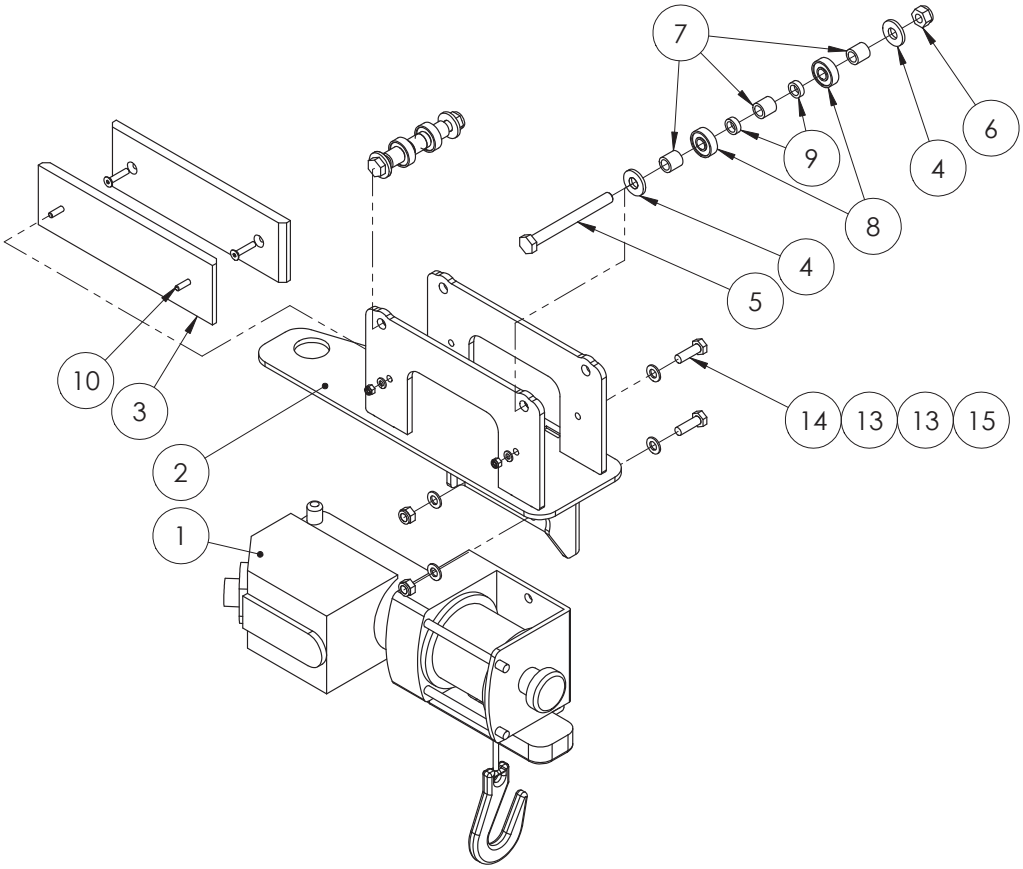
DCI Direct Draw Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
15	GA5048115	Nut nyloc M6	8
16	GA5001043	M16 SS washer	24
17	GA5000931	M16x50 bolt	12
18	GA5001029	M16 Nyloc nut	12
19	GA4522315	Washer, general spacer	4
20	HB075-90	Hose barb elbow 3/4" thread 3/4" barb	4
21	075A	male cam lock 3/4" female	2
22	CAP075	Cap banjo 3/4"	2
23	RB100075	Reducing bush poly 1" to 3/4"	2
24	CPLG200	2 poly pipe coupling	2
25	RB200-100	Poly Reducer Bushing 2 x 1	2
26	HB100	Hose Barb 1"	2
27	GA5003577	M5 x 16 bolt	7
28	GA4903296-02-02	Direct injection pump subassembly	2
29	GA5010903	Linch Pin 5/16 Round (Half)	2

Winch Mount Assembly

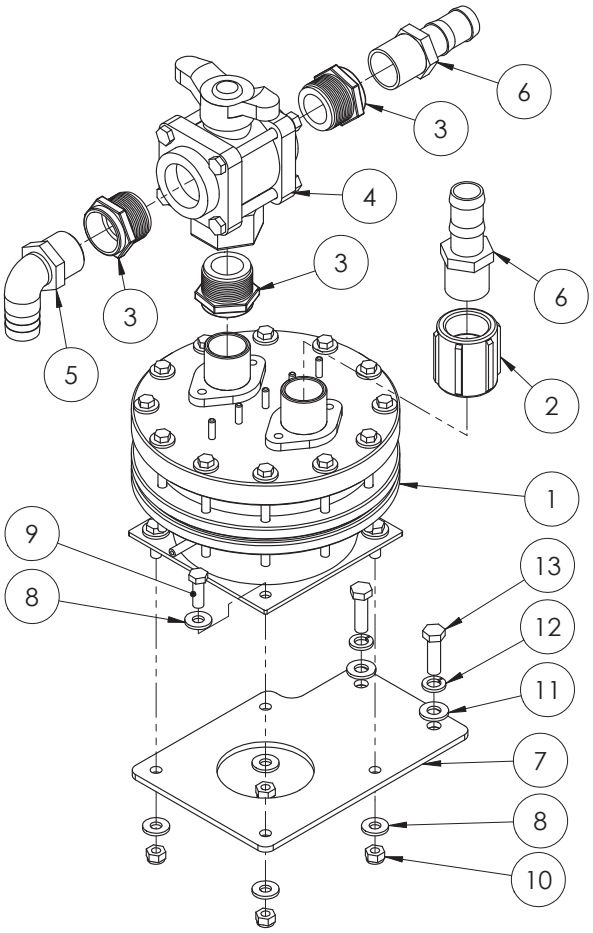


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075175	Warn Works 1700 770Kgs Remote switch 3.7 m lead	1
2	GA4657711	Enviro DCI Winch Crane Mounting Frame suit warn	1
3	GA5075145	Wear pad suit enviro crane mount	2
4	GA5000117	Washer 10mm SS Heavy duty	4
5	GA5011139	M10x100 Bolt	2
6	GA5000141	M10 Nyloc Nut	2
7	GA4552075	crush tube 10.2x15x15	6
8	GA5005631	Ball bearing 10mm x 26mm x 8mm with seals	4
9	GA4552080	crush tube 10.2x15x5	4
10	GA5050115	Bolt M5 x 25 Countersink SS A2-70	4
11	GA5003983	M5 washer ss	4
12	GA5003975	M5 Nyloc nut SS	4
13	GA5004883	Washer 8mm SS	4
14	GA5004711	M8x25 bolt	2
15	GA5052590	Nut M8 Nyloc S/S 316	2

Chapter 7

DUAL PRODUCT

Ramsay Valve Assembly



Note: Ramsay val replacement diapham kit
Part number GA5061045

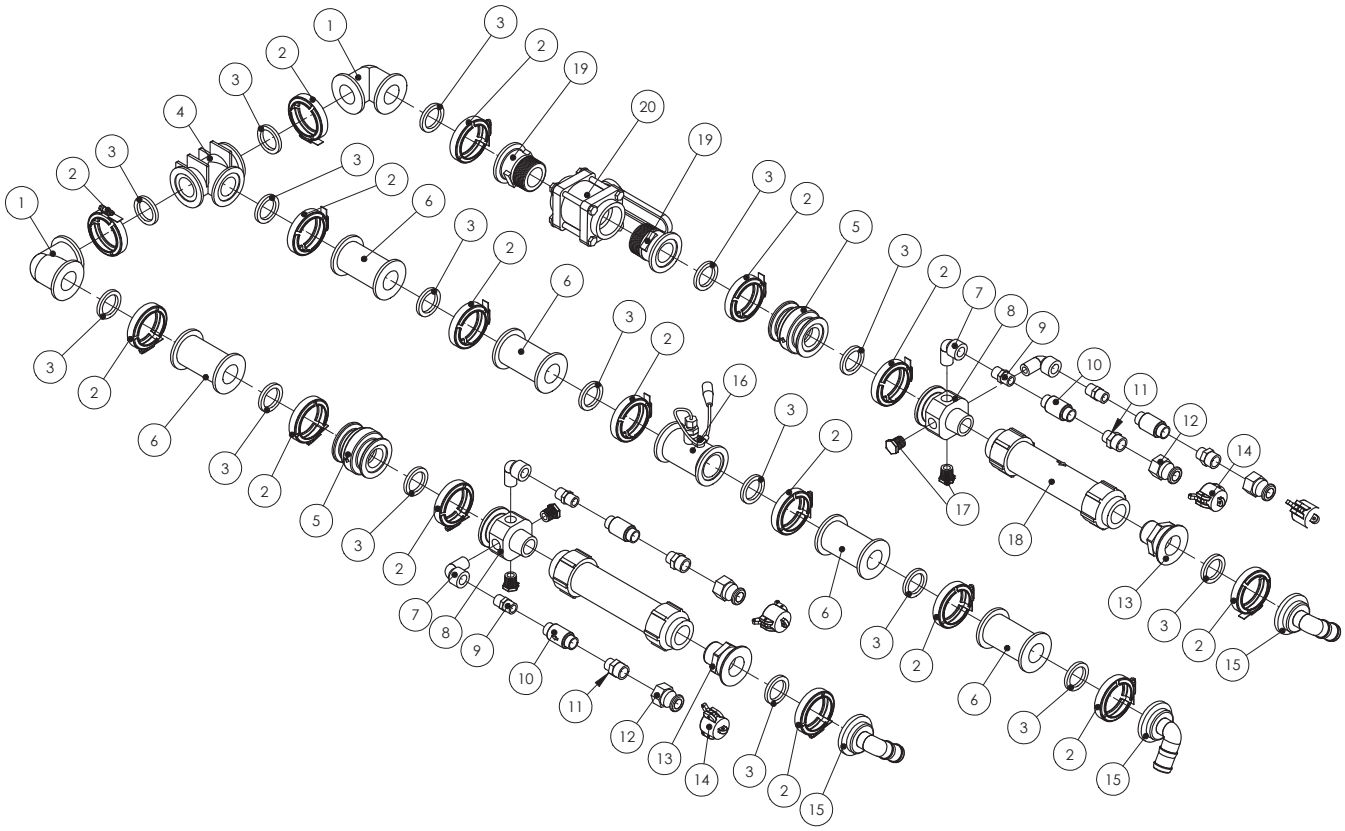
GA5010315 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5010315	Ramsay valve	1
2	CPLG125	Coupling poly 1 1/4	1
3	RB150125	Reducing bush 1 ½" to 1 1/4"	3
4	VL150BL	1.5" 3 way Ball Valve	1
5	HB125-90	90' Poly Hose Barb Elbow 1 1/4	1
6	HB125	1-1/4" MPT X 1-1/4" Hose Shank	2
7	GA4522105	Ramsay Valve chassis mnt bracket	1
8	GA5000117	Washer 10mm SS Heavy duty	8

Ramsay Valve Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA5065455	Bolt Gr8.8 M10x30	4
10	GA5000141	M10 Nyloc Nut	4
11	GA5000587	M12 WASHER	2
12	GA5000575	M12 Spring washer SS	2
13	GA5066895	Bolt Gr 8.8 ZP M12x40	2

Dual Product and DCI Mixer

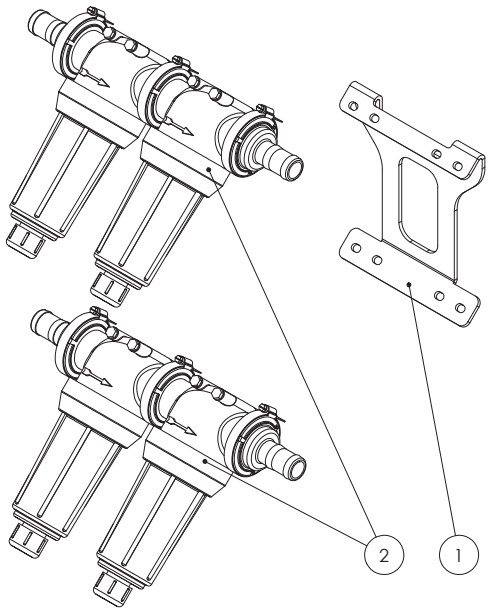


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M200CPG90SH	2" MANIFOLD COUPLING X 90-SHORT	2
2	FC200	Screw clamp	16
3	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT150	16
4	M200TEE	2" Flanged Tee Fitting	1
5	MCV200	2" Banjo Check valve	2
6	M200CPG	2" flanged spacer	5
7	SL050-90	1/2" Street Elbow	4
8	GA4572025	Tee 2" flange 1-1/4" male 1/2" female	2

Dual Product and DCI Mixer

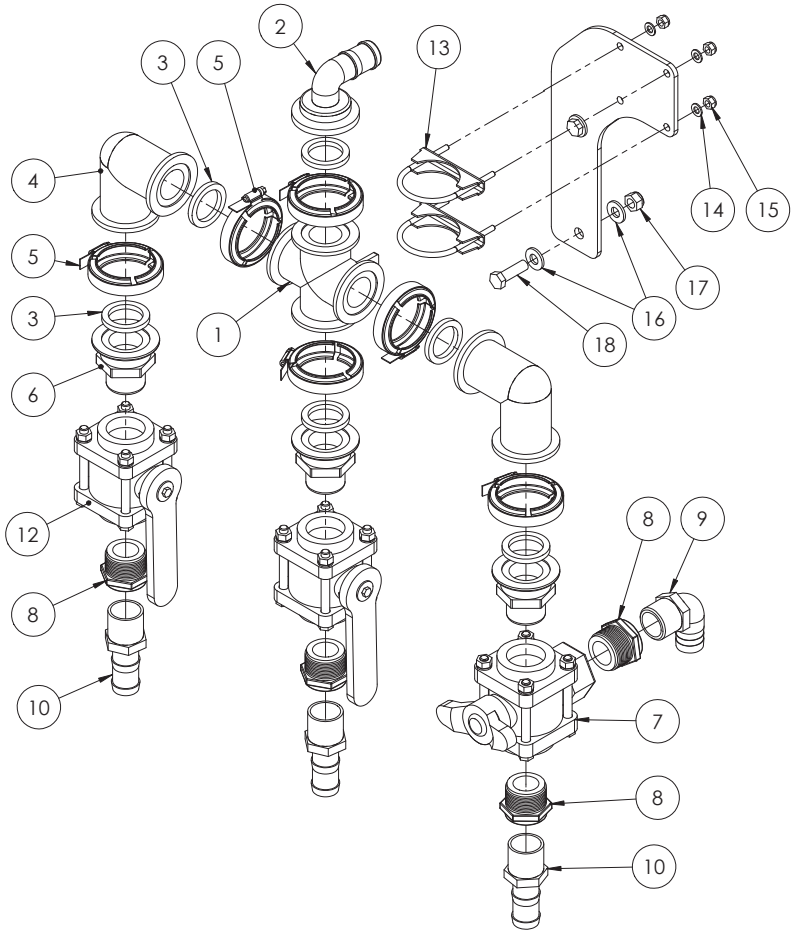
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA5048310	1/2" Brass Nipple	4
10	3330011088	1/2 inch SS check valve	4
11	RN075-050	Reducing nipple 3/4" to 1/2"	4
12	075A	male cam lock 3/4" female	4
13	M200125MPT	Manifold 2"FLG X 1-1/4" MPT	2
14	75CAP	CAP (FITS 1/2" & 3/4" CPLG'S)	4
15	M200125BRB90	2"Manifold X 1-1/4 Barb 90 Deg	3
16	0630171793	FLOWMETER RFM-60P	1
17	PLUG050	Pipe Plug 1/2	4
18	0630159632	MIXER FLOW ASY 1 1/4NPT	2
19	M200BSP	2"MANIFOLD MLE THD CONNECT-BSP	2
20	V200	2" FPT X 1-1/2" PORT POLY VLVE	1

Dual Pressure Filters



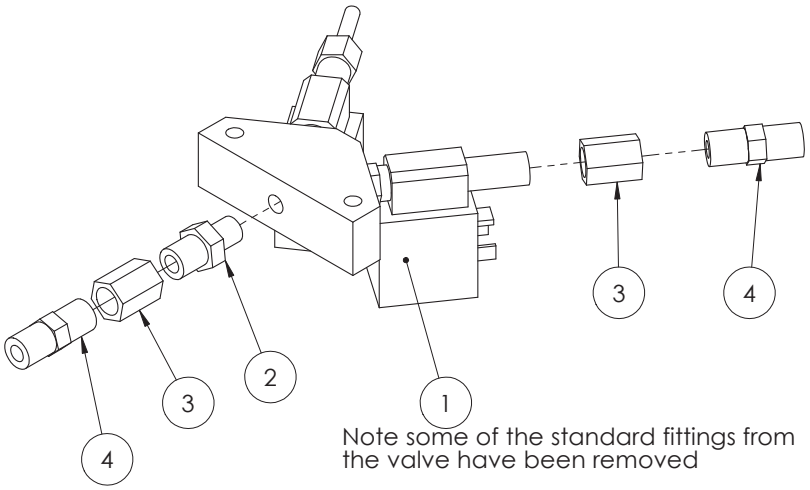
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657155	Dual product bracket	1
2	GA4903065-EF	Pressure Filter assembly	2

Dual Product Manifold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M200CR	2" Flanged Cross	1
2	M200125BRB90	2"Manifold X 1-1/4 Barb 90 Deg	1
3	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT150	6
4	M200CPG90	2" MANIFOLD COUPLING X 90	2
5	FC200	Screw clamp	6
6	M200150MPT	Manifold 2"FLG X 1-1/2" MPT	3
7	VL150BL	1.5" 3 way Ball Valve	1
8	RB150125	Reducing bush 1 ½" to 1 1/4"	4
9	HB125-90	90' Poly Hose Barb Elbow 1 1/4	1
10	HB125	1-1/4" MPT X 1-1/4" Hose Shank	3
11	GA4514310	Dual product valve mnt, suit H frame	1
12	V150	1.5" Ball Valve	2
13	GA5006689	Exhaust clamp - 66mm C12	2
14	GA5004883	Washer 8mm SS	4
15	GA5052590	Nut M8 Nyloc S/S 316	4
16	GA5000587	M12 WASHER	4
17	GA5012461	M12 Nyloc nut Z/P	2
18	GA5066895	Bolt Gr 8.8 ZP M12x40	2

Twin Solenoid Assembly

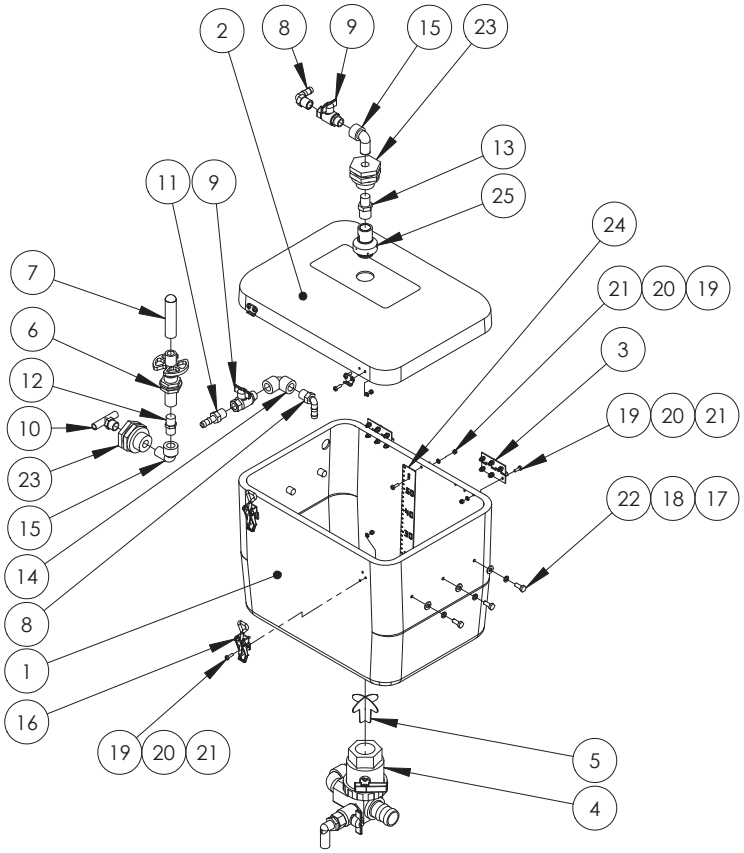


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5061055	Ramsay twin solenoid valve assembly	1
2	GA5013809	Reducing Nipple 1/4 x 1/8	1
3	GA5066940	1/4" BSPP Socket Brass	2
4	S27-0404	1/4" x 1/4" Steel Nipple	2

Chapter 8

INDUCTION HOPPER

Hopper Tank



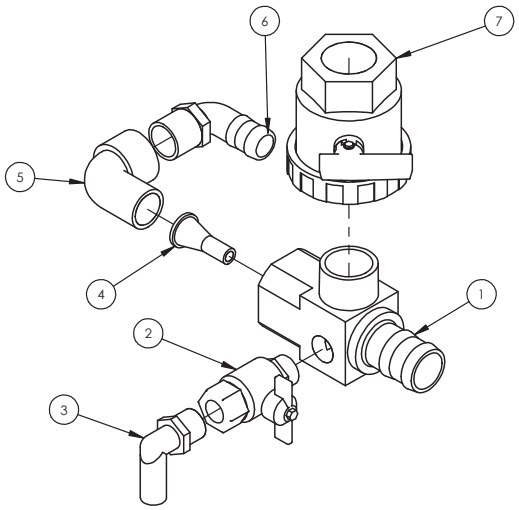
GA4900381-60 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070040	Hopper tank - 07 Advance 60L	1
2	GA5070045	Hopper lid - 07 Advance 60L	1
3	GA5006661	Hinge 76mm Butt Hinge SS	2
4	GA4903105	Pre-assembled Induction hopper bottom suit 40 / 60L /70L	1
5	GA4657115	Induction hopper anti vortex cross	1
6	510100	Push down valve	1
7	510110	Rinsing nozzle 1/2" F thread	1
8	HB050-90	Hose Barb Elbow 1/2	2
9	GA5020615	1/2" ball valve	2
10	T12T	Barb male tee (1 x 1/2" thread, 2 x 1/2" barbs)	1
11	HB050	1/2" Hose Barb	1
12	NIP-050-SH	1/2" Short Poly Nipple	1

Hopper Tank

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
13	RN-050-075	Reducing Nipple 1/2" x 3/4"	1
14	EL050-90	1/2" Female to Female Elbow	1
15	SL050-90	1/2" Street Elbow	2
16	GA5007071	Latch Chemical Induction Hopper Lid	2
17	GA5004883	Washer 8mm HD	6
18	GA5004919	M8 Spring washer SS	6
19	GA5003976	M5 x 20mm Pan head Screw	23
20	GA5003983	M5 washer ss	23
21	GA5003975	M5 Nyloc nut SS	23
22	GA5004085	M8x20 bolt	6
23	TF050	1/2" Poly Bulkhead	2
24	GA4522296	Hopper level indicator 65L	1
25	B55270-34-18	Tank rinse nozzle 3/4 BSP	1

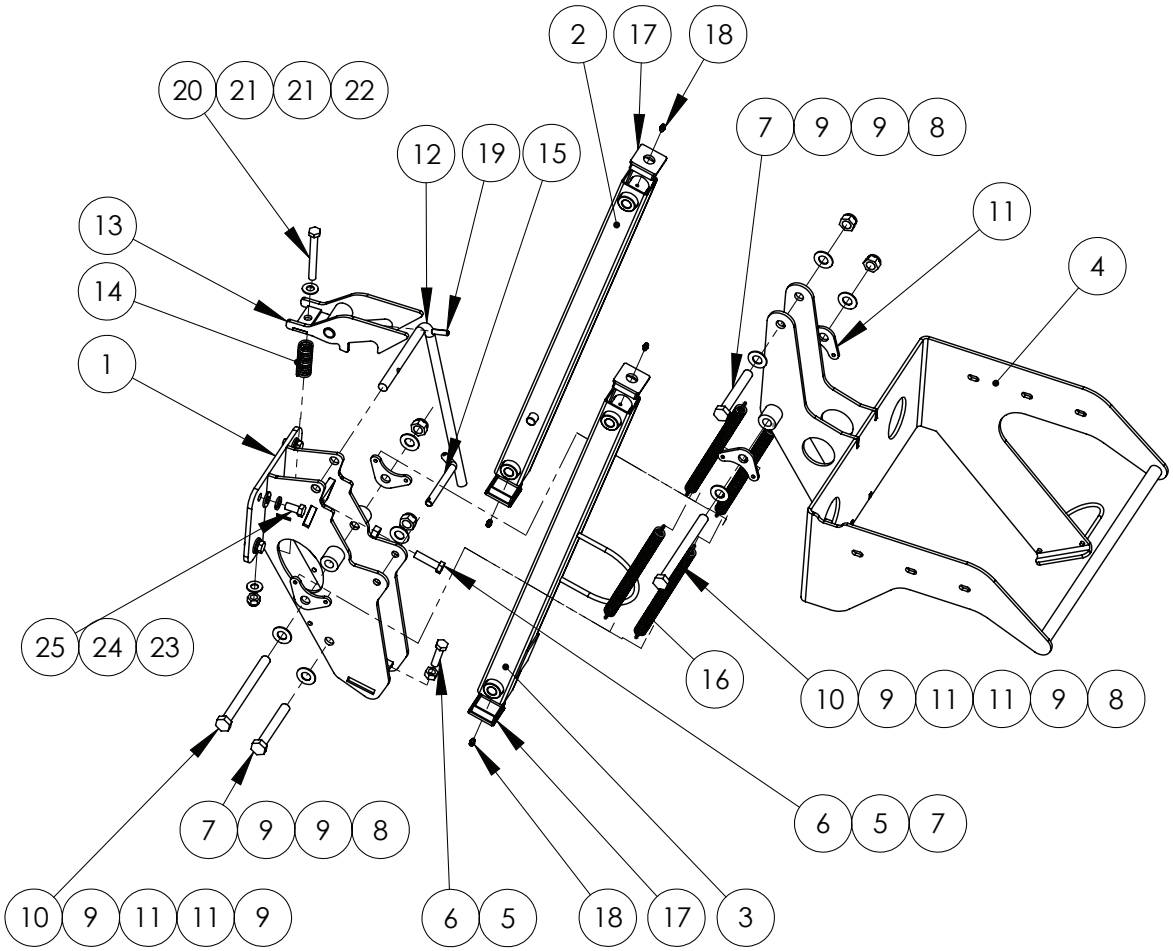
Hopper Tank - Bottom



GA4903105 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L056A	Hopper Bottom	1
2	GA5018315	Ball Valve Male / Female TEE 3/4"	1
3	HB075-90	Elbow male 3/4"	1
4	L057A	Hopper jet tapered 7mm	1
5	SL100-90	Street Elbow 1" Poly	1
6	HB100-90	Hose barb 90 degree 1" Banjo	1
7	UV150FP	Ball Valve Banjo 1 1/2"	1

Hopper Frame



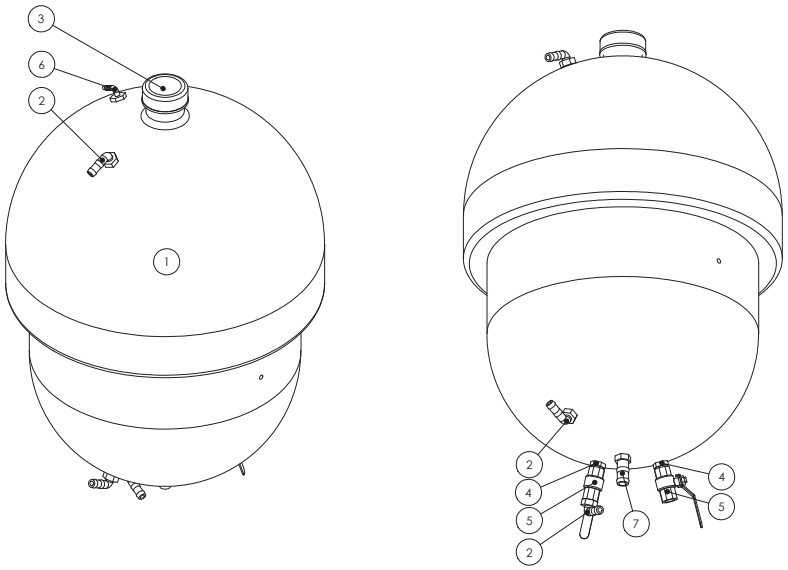
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653420	INDUC HOP chassis MNT ADV	1
2	GA4653440	INDUC HOP arm UPR ADV	1
3	GA4653445	INDUC HOP arm LWR ADV	1
4	GA4656855	INDUC HOP tank support 08 Adv	1
5	GA5000559	M12 Plain nut	2
6	GA5000327	Set Screw M12 x 45 ZP GR8.8	2
7	GA5011199	Bolt M16 x 110 ZP GR8.8	2
8	GA5001029	M16 Nyloc nut	4
9	GA5001009	M16 washer Zink coated - use GA5001043	8
10	GA5000879	Bolt M16 x 180 ZP GR8.8	2
11	GA4522294	Prairie EF induction hopper x2 Spring mount	4
12	GA4699435	Latch handle SP hopper 2011	1
13	GA4653490	INDUC HOP latch ADV	1
14	GA5007329	Compression spring gold	1
15	SP-IH-009	Hopper Latch Pin	1
16	GA5007073	Chemical Induction Hopper Spring	4
17	GA5003783	50x50mm 0.8-2.5 Insert Cap	4

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA5012203	Grease Nipple 1/4" UNF Short	4
19	GA5075130	Roll pin M8 x 30mm coated	1
20	GA5000259	M12x100 Bolt	1
21	GA5000587	Washer HD ZP 12mm	2
22	GA5012461	M12 Nyloc nut Z/P	1
23	GA5000587	M12 WASHER	4
24	GA5000575	M12 Spring washer SS	4
25	GA5000295	Set screw HT M12 x 25	4

Chapter 9

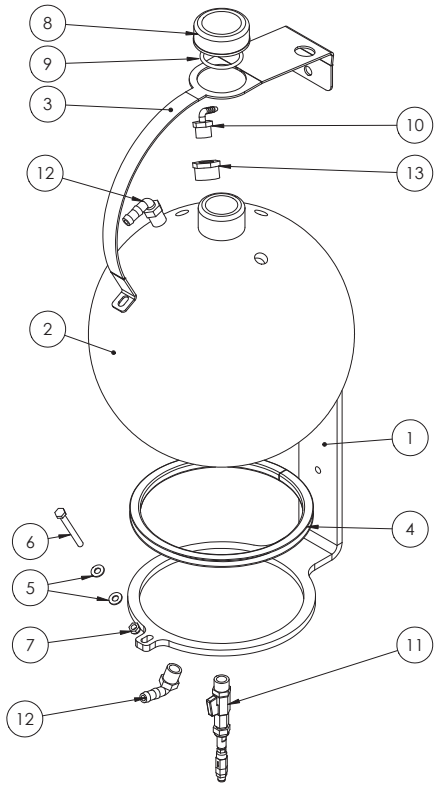
FOAM MARKER TANK

100 Litre Foam Marker Tank



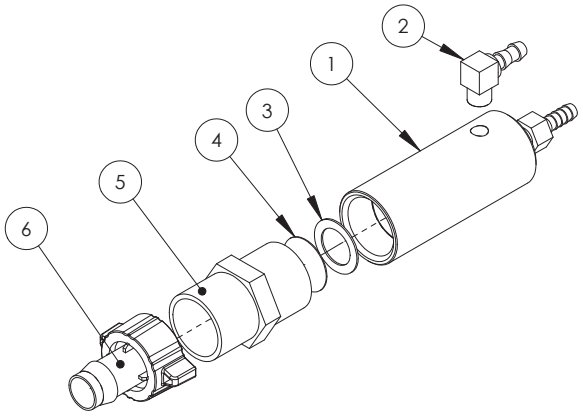
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018487	100L foam marker tank	1
2	HB050-90	Hose Barb Elbow 1/2	3
3	P24730	Lid, suit foam marker	1
4	GA5048310	1/2" Brass Nipple	2
5	GA5018309	12mm Ball valve	2
6	EL1214	Elbow Male Taper x Hose Barb 1/2x1/4	1
7	HB050-075	1/2"Male Thd X 3/4" Hose barb	1
-	GA5009187	O Ring suit exacta tank cap 50X5	1

Direct Injection Foam Bottle



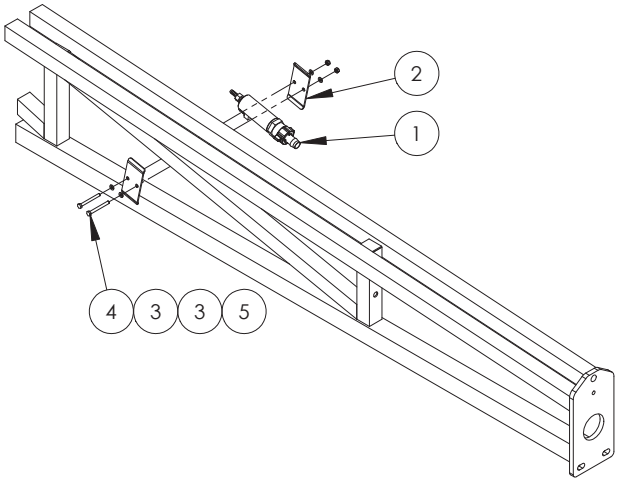
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70609A	Direct injection bottle mounting plate	1
2	GA4901038	Tank 25L ball (green)	1
3	F70622A	Injection bottle strap	1
4	GA5010085	Hollow rectangular rubber cut 691mm	1
5	GA5004883	Washer 8mm HD	2
6	GA5004749	M8x80 Bolt	1
7	GA5004917	M8 Nyloc Nut	1
8	P24730	Lid, suit foam marker	1
9	GA5009187	O Ring suit exacta tank cap 50X5	1
10	EL1214	Elbow Male Taper x Hose Barb 1/2x1/4	1
11	GA4903077	Pre-Assembled Filter and Ball Valve to suit Direct Injection Foam Marker Tanks	1
12	HB050-90	Hose Barb Elbow 1/2	2
13	RB100050	Poly Pipe Reducer Bush 1 x 1/2	1

Foam Generator



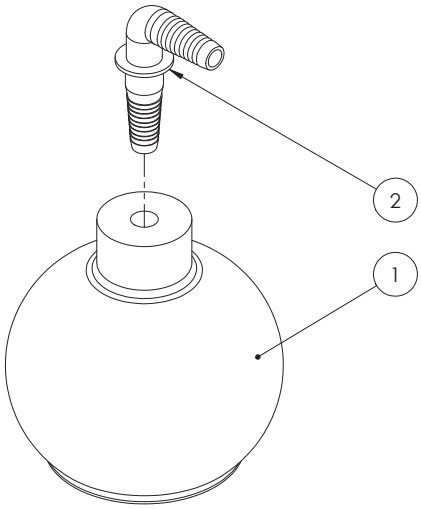
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FGEN	Foam Generator nozzle sub assem (3 parts nozzle & body & lock nut)	1
2	GA5066950	1/4" x 1/8" Brass elbow	1
3	GA5002497	3/4" Copper Washer (for Foam Generator)	1
4	GA4948390	Mesh Screen for foam generator	1
5	NIP100-SH	1" X Short Poly Nipple	1
6	GA5007621	19mm x 1" Hose barb	1

Foam Generator Mounting



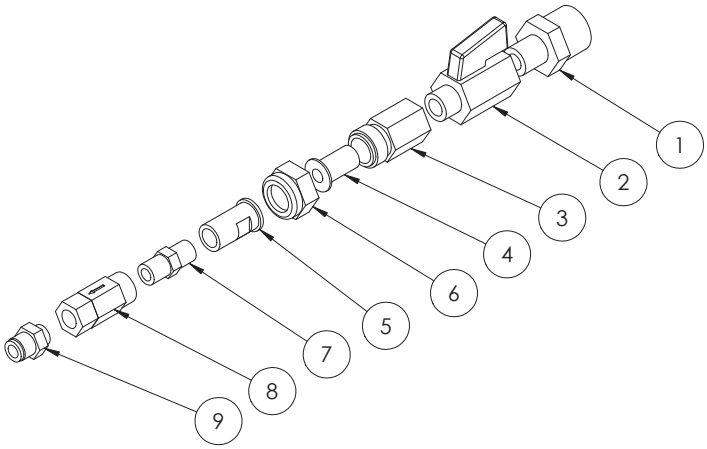
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FGEN-COM	Foam Generator complete	1
2	F70239A	Foam generator clamping bracket	2
3	GA5004437	M6 SS Washer	4
4	GA5004097	Bolt M6 x 60 ZP GR8.8	2
5	GA5048115	Nut nyloc M6	2

Foam Accumulator Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5008491	Exacta Accumulator Bare	1
2	118319	Foam Marker Elbow	1

Filter and Ball Valve



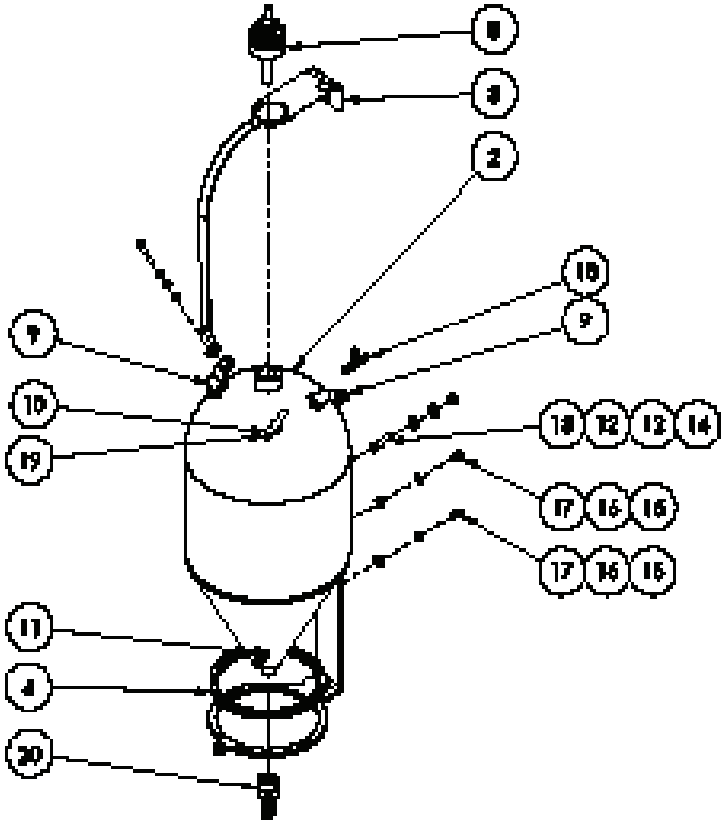
GA4903077 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5012259	Nipple Reducing 1/2" x 1/4"	1
2	GA5017405	1/4" M-F Ball Valve (Chrome)	1
3	CP1321	Brass Nozzle Body	1
4	8079-PP-200	200 Mesh Strainer (Orange)	1
5	CP4928	Adapter Brass 1/8" NPT Female	1
6	CP1325	Brass Cap	1
7	GA5066935	1/8" x 1/8" Brass Nipple	1
8	GA5018147	Check Valve Inline 1/8"	1
9	GA5050210	6mm x 1/8" Fitting	1

Chapter 10

TRANSCAL

Transcal Bottle



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70608A	45L transcal tank mounting plate	1
2	GA4901047	45L transcal tank	1
3	F70623A	Transcal bottle strap bent	1
4	GA4673840	Hollow section rectangular rubber (GA5010085) cut 735mm	1
5	GA5004749	M8x80 Bolt	1
6	GA5004883	Washer 8mm HD	2
7	GA5004917	M8 Nyloc Nut	1
8	GA4903050	Rinse nozzle and cap complete	1
9	HB100-90	Hose barb 90 degree 1" Banjo	2
10	T12T	barb male tee (1 x 1/2" thread, 2 x 1/2" barbs)	1
11	HB050-90	Hose Barb Elbow 1/2	1
12	GA5000587	Washer HD ZP 12mm	2
13	GA5011239	M12x50 bolt	1

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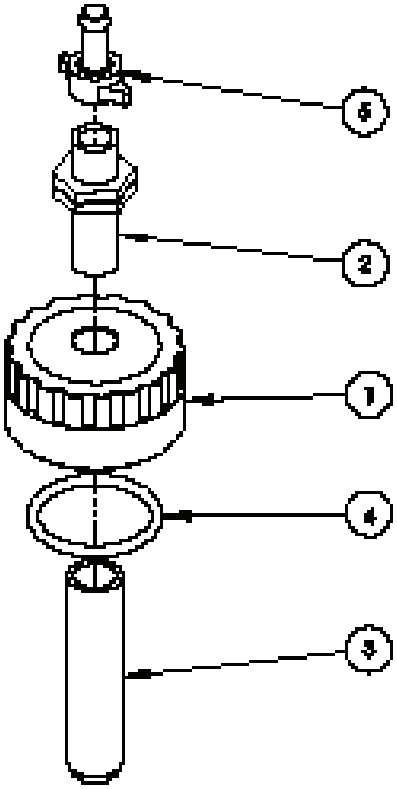
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	GA5012461	M12 Nyloc nut Z/P	1
15	GA5000117	Washer 10mm SS Heavy duty	2
16	GA5000137	Washer 10mm Spring S/S	2
17	GA5006113	Bolt M10x20 ZP 8.8	2
18	T12	1/2” Barbed Tee	1
19	GA5020695	1/8" Brass Hose Barb with Barb Removed	1
20	HBF100	Female Hose Barb 1"	1

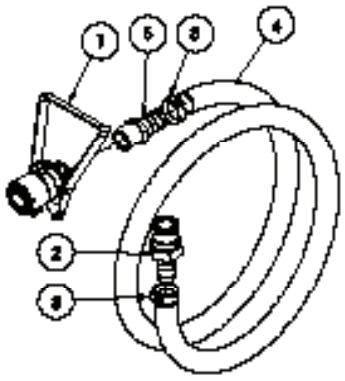
Rinse Nozzle & Cap



GA4903050 Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L055A	Transcal Cap	1
2	2502021	1/2" Nipple Long	1
3	510110	Rinsing nozzle 1/2” F thread	1
4	GA5009187	O Ring suit exacta tank cap 50X5	1
5	006330	Brass Nut & Tail 13mm with 1/2 BSP hose fitting	1

Enviro coupling & hose

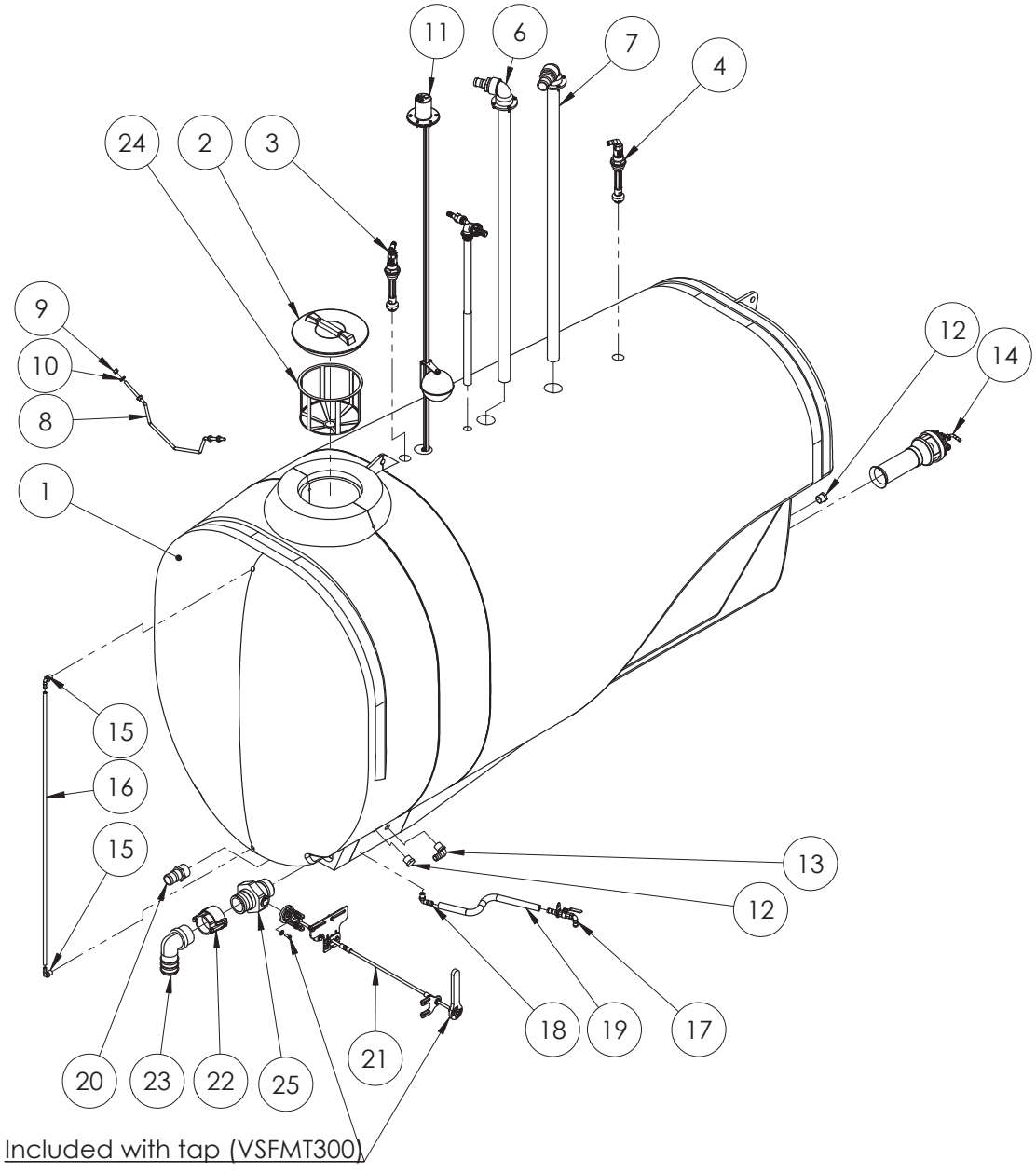


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018803	Coupler, 3 Pin, Viton Flow Control	1
2	100E Male Adapter	1" Hose Shank	1
3	GA5001681	1" SS hose clamp	2
4	HOS25PVC - suit enviro chem probe	PVC hose 25mm cut 2840m	1
5	HB100	Hose Barb 1"	1

Chapter 11

MAIN TANK

4/5000 litre tank assembly



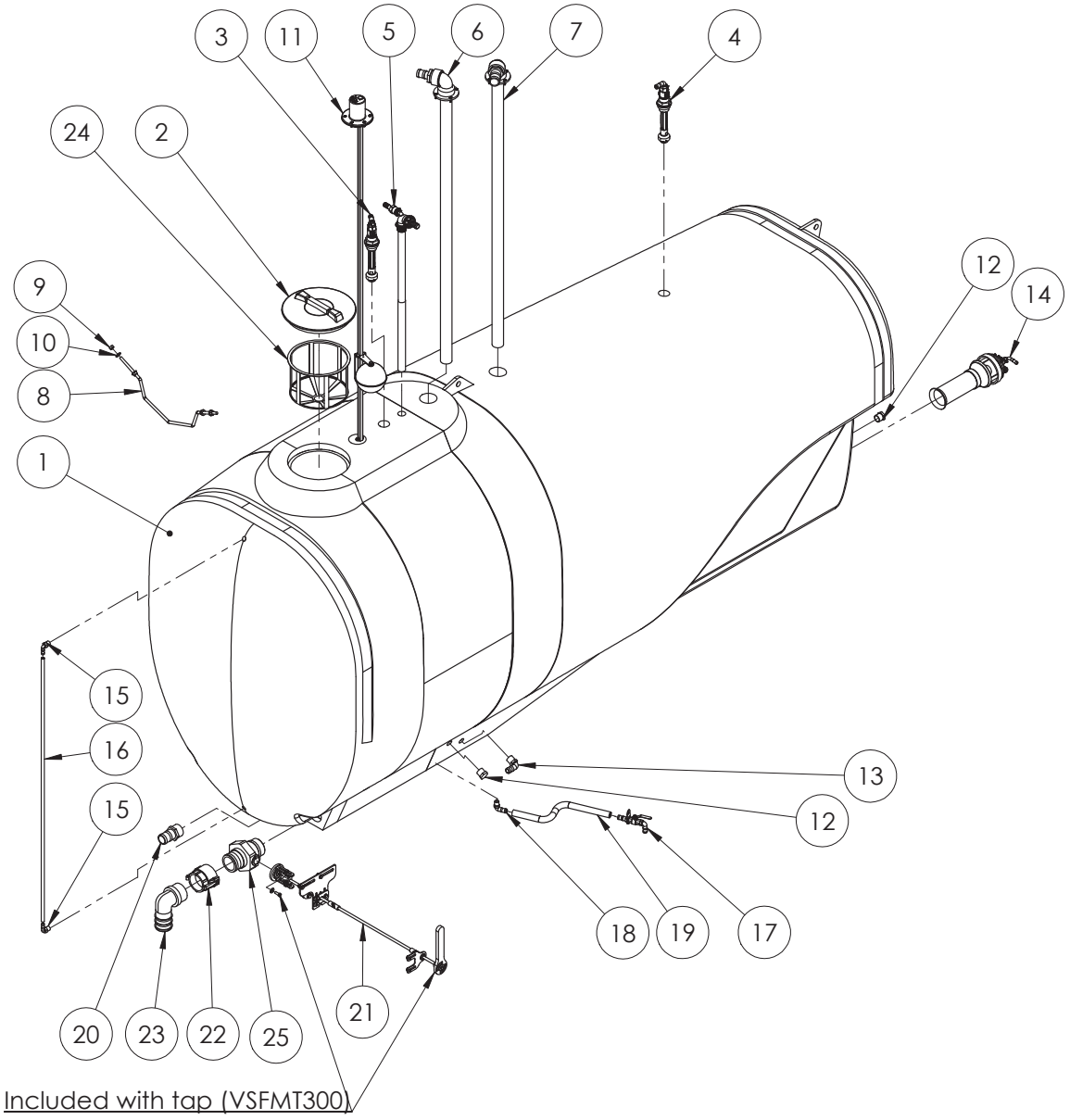
Included with tap (VSFMT300)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070030	Tank Prairie Evo	1
2	352040	Medium Lid D355 c/w Breather	1
3	GA4901285-2	Tank flushing nozzle (tee) cam adaptor	1
4	GA4901285-1	Tank flushing nozzle (elbow) cam adaptor	1
5	GA4903086	Pre-assembled Venturi Filler	1

4/5000 litre tank assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	GA4903098	Hopper Tank Inlet	1
7	GA4903136	2" Tank Fill	1
8	GA4672885	Tank support bar suit EF tanks	1
9	GA5000581	M12 SS nut	4
10	GA5000587	M12 WASHER	4
11	GA4902146	Dry sight tube tank float and guide kit suit Evo no light	1
12	PLUG100	Plug 1" Banjo	2
13	HB100-90	Hose barb 90 degree 1" Banjo	1
14	GA4903096	Pre-assembled super mix agitator	1
15	HB050-90	Hose Barb Elbow 1/2	2
16	GA4673850	HOS12SIGHT cut 1700mm	1
17	GA4903097	Pre-assembled sump drain all models	1
18	HB050/075-90	90' Poly Hose Barb Elbow 1/2 x 3/4	1
19	GA4673855	3/4 Hose cut 600mm	1
20	HB200	Straight Hose Barb 2"	1
21	GA4903550	Remote tank drain handle	1
22	300D	Camlock 3 inch NPT Female thread	1
23	HB300-90	90' Poly Hose Barb Elbow 3"	1
24	300120	Basket Filter D 302 x 254	1
25	VSFMT300	VALVE 3" male NPT x 3" male Adapter with handle	1

6500 litre tank assembly



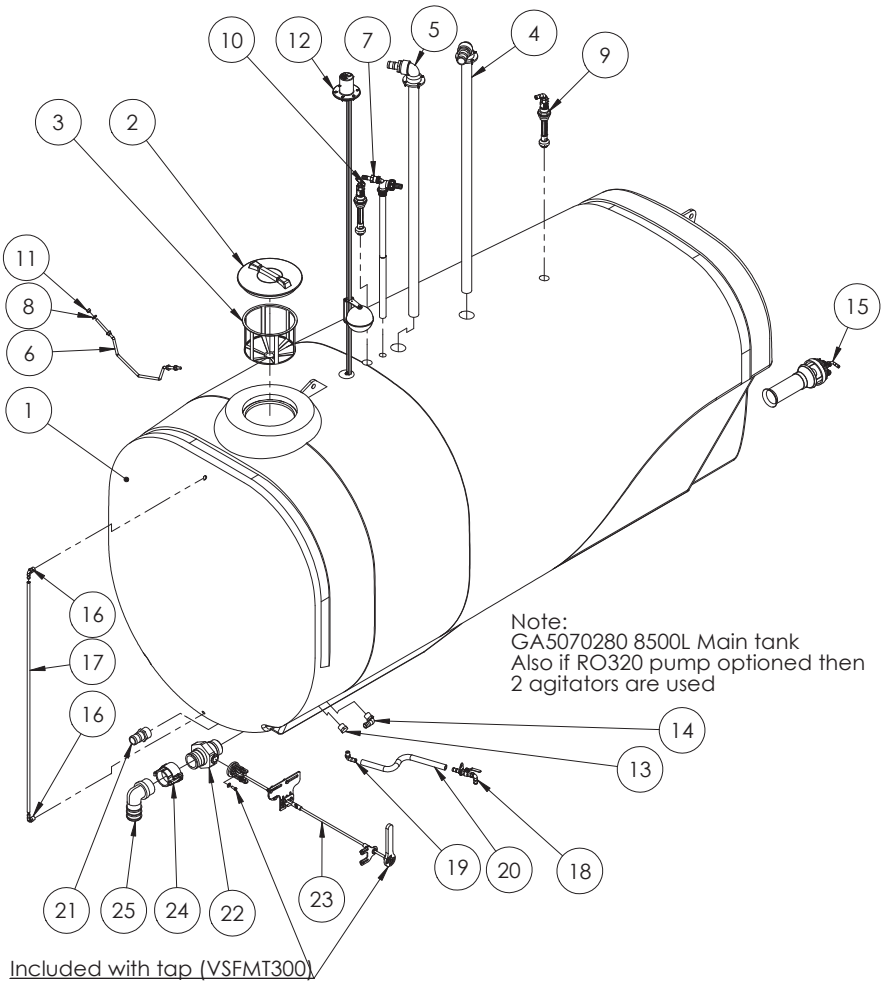
Included with tap (VSFMT300)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070100	Tank Evo 6500L bare (no holes)	1
2	352040	Medium Lid D355 c/w Breather	1
3	GA4901285-2	Tank flushing nozzle (tee) cam adaptor	1
4	GA4901285-1	Tank flushing nozzle (elbow) cam adaptor	1
5	GA4903086	Pre-assembled Venturi Filler	1
6	GA4903098	Hopper Tank Inlet	1
7	GA4903136	2" Tank Fill	1
8	GA4672885	Tank support bar suit EF tanks	1
9	GA5000581	M12 SS nut	4
10	GA5000587	M12 WASHER	4

6500 litre tank assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	GA4902146	Dry sight tube tank float and guide kit suit Evo no light	1
12	PLUG100	Plug 1" Banjo	2
13	HB100-90	Hose barb 90 degree 1" Banjo	1
14	GA4903096	Pre-assembled super mix agitator	1
15	HB050-90	Hose Barb Elbow 1/2	2
16	GA4673850	HOS12SIGHT cut 1700mm	1
17	GA4903097	Pre-assembled sump drain all models	1
18	HB050/075-90	90' Poly Hose Barb Elbow 1/2 x 3/4	1
19	GA4673855	3/4 Hose cut 600mm	1
20	HB200	Straight Hose Barb 2"	1
21	GA4903550	Remote tank drain handle	1
22	300D	Camlock 3 inch NPT Female thread	1
23	HB300-90	90' Poly Hose Barb Elbow 3"	1
24	300120	Basket Filter D 302 x 254	1
25	VSFMT300	VALVE 3" male NPT x 3" male Adapter with handle	1

75/8500 litre tank assembly

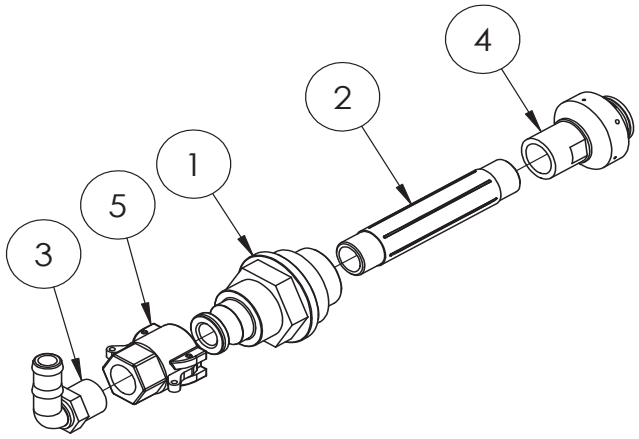


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070280	7500L main tank	1
2	352040	Medium Lid D355 c/w Breather	1
3	300120	Basket Filter D 302 x 254	1
4	GA4903136	2" Tank Fill	1
5	GA4903098	Hopper Tank Inlet	1
6	GA4672885	Tank support bar suit EF tanks	1
7	GA4903086	Pre-assembled Venturi Filler	1
8	GA5000587	M12 WASHER	4
9	GA4901285-1	Tank flushing nozzle (elbow) cam adaptor	1
10	GA4901285-2	Tank flushing nozzle (tee) cam adaptor	1
11	GA5000581	M12 SS nut	4
12	GA4902146	Dry sight tube tank float and guide kit suit Evo no light	1
13	PLUG100	Plug 1" Banjo	1
14	HB100-90	Hose barb 90 degree 1" Banjo	1
15	GA4903096	Pre-assembled super mix agitator	2

75/8500 litre tank assembly

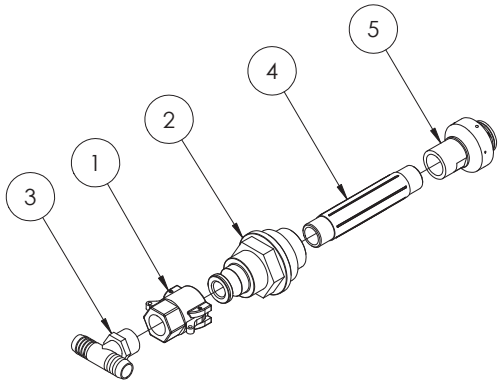
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	HB050-90	Hose Barb Elbow 1/2	2
17	GA4673850	HOS12SIGHT cut 1700mm	1
18	GA4903097	Pre-assembled sump drain all models	1
19	HB050/075-90	90' Poly Hose Barb Elbow 1/2 x 3/4	1
20	GA4673855	3/4 Hose cut 600mm	1
21	HB200	Straight Hose Barb 2"	1
22	VSFMT300	VALVE 3" male NPT x 3" male Adapter with handle	1
23	GA4903291	Remote tank drain handle suit 7500 and 8500L	1
24	300D	Camlock 3 inch NPT Female thread	1
25	HB300-90	90' Poly Hose Barb Elbow 3"	1

Tank Flush Elbow



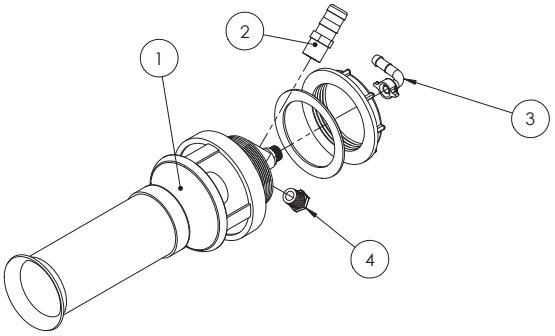
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
		Complete Sub Assembly	1
1	GA4572015	Tank rinse adaptor with cam lock	1
2	NIP075-6	3/4" X 6" Poly Nipple	1
3	Elbow HB075-90	Hose barb elbow 3/4" thread 3/4" barb	1
4	B55270-34-18	Tank rinse nozzle 3/4 BSP	1
5	75D	Female Coupler 3/4 female Thread	1

Tank Rinse Tee



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
		Complete Sub Assembly	1
1	75D	Female Coupler 3/4 female Thread	1
2	GA4572015	Tank rinse adaptor with cam lock	1
3	T34T	Tee Barb 3/4 Thread	1
4	NIP075-6	3/4" X 6" Poly Nipple	1
5	B55270-34-18	Tank rinse nozzle 3/4 BSP	1

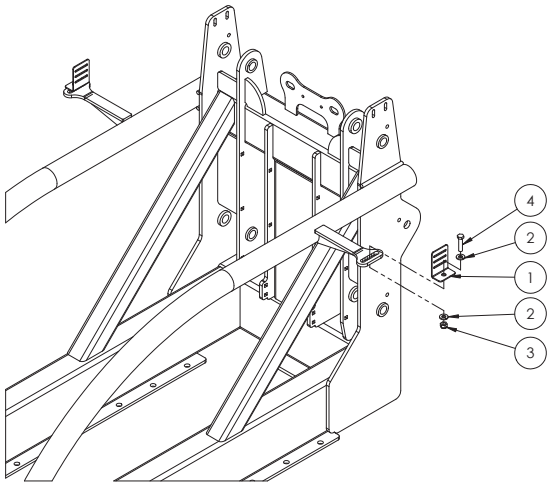
Supermix Agitator



Please note: Agitator fitted with 3mm jet

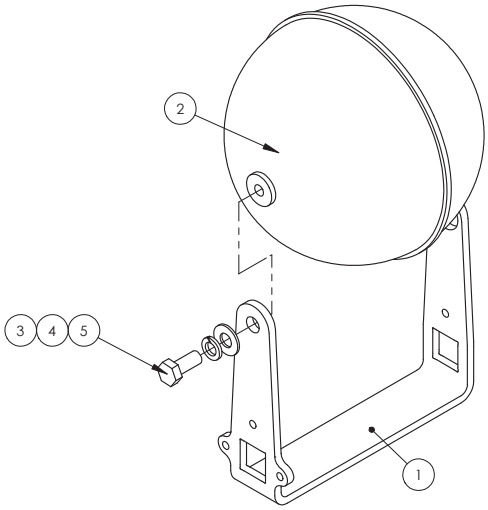
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
		Complete Sub Assembly	1
1	502054	Agitator Mixer body with nut and rubber seal	1
2	HB075-100	3/4" x 1" hose barb	1
3	GA5012375	1/2" Brass Elbow & Nut	1
4	PLUG050	Pipe Plug 1/2	1
	006100	Supermix agitator brass elbow o-ring	1

Tank Straps



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70127A	50mm Tank Strap Bracket	4
2	GA5000587	M12 WASHER	8
3	GA5012461	M12 Nyloc nut Z/P	4
4	GA5011239	M12x50 bolt	4
	GA5003859	Tank Strap - Order per metre	N/A

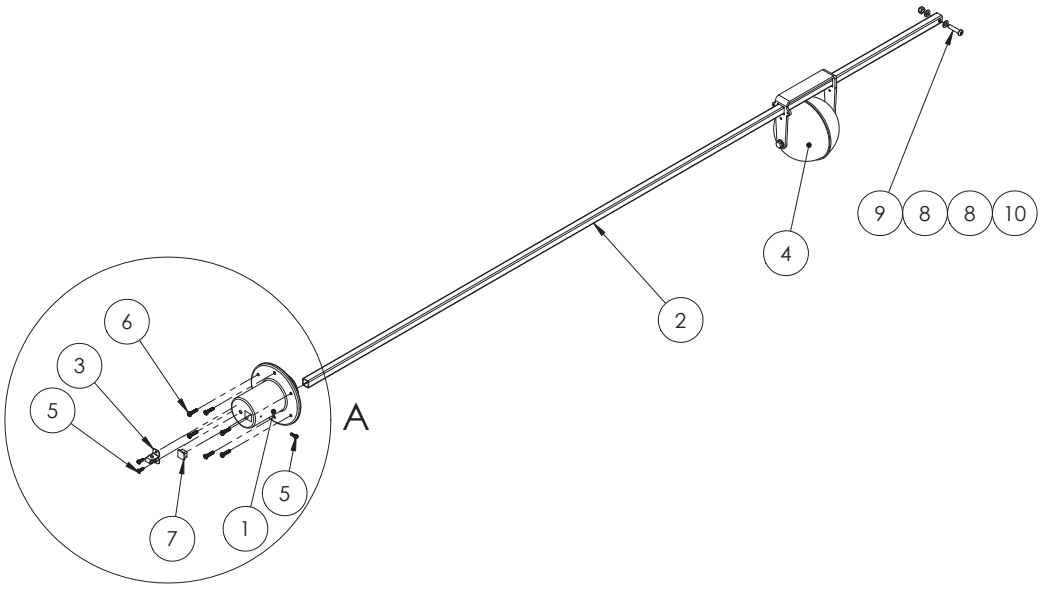
Dry Sight Tube

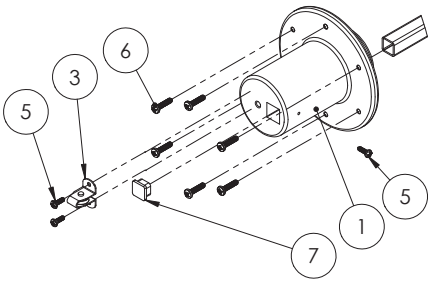


GA4902146	Complete dry sight tube kit
GA4922090	Complete float assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523045	Dry sight tube float mount bracket	1
2	GA5008835	6" ball float	1
3	GA5004883	Washer 8mm HD	1
4	GA5004919	M8 Spring washer SS	1
5	GA5048485	5-16 whitworth x 3-4" SS set screw	1

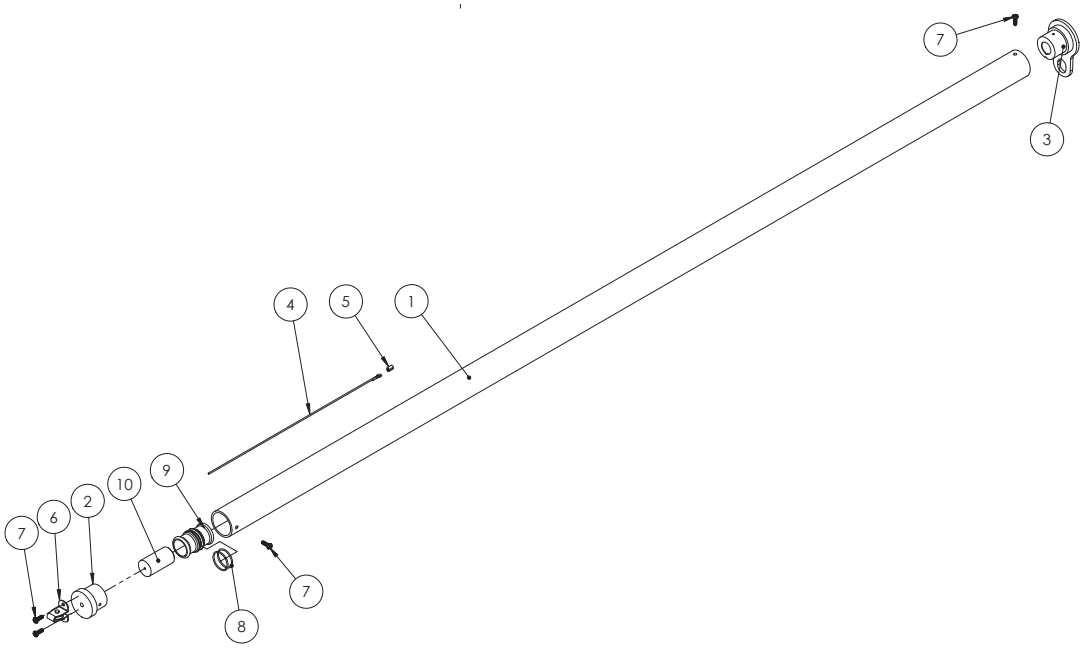
Dry Sight Tube Float & Guide





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MACH0308	FLOAT TUBE LOCATING CAP	1
2	GA4673845	19x19x1.6 SS RHS cut 2150mm	1
3	GA5015221	Sight tube cable roller	1
4	GA4922090	Dry sight tube tank float	1
5	GA5014817	Screw 10G x 5/8 Pan Head SS	3
6	GA5000527	Screw 12G x 1 XR STS Pan SS	6
7	GA5001101	19 x 19 Square tube Insert Black	1
8	GA5004883	Washer 8mm HD	2
9	GA5051370	M8 x 35mm BHCS SS	1
10	GA5052590	Nut M8 Nyloc S/S 316	1

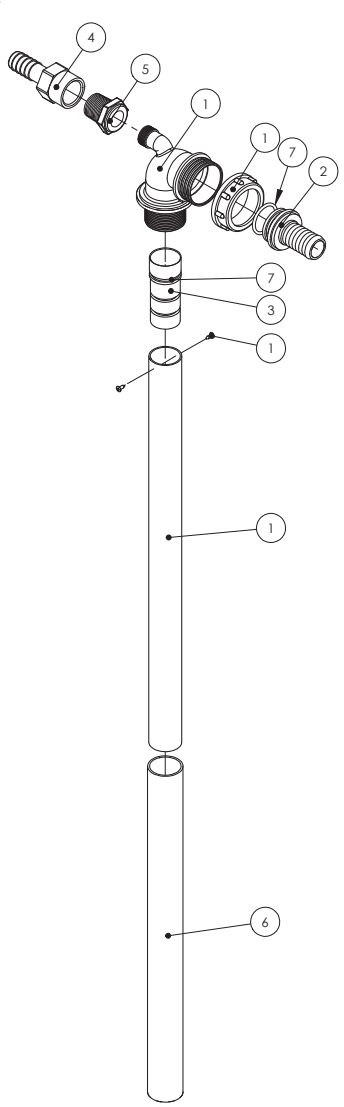
Dry Sight Tube Cap & Tube



GA4903094 Complete cap and tube kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002979	EF sight tube 38x44x2000mm clear polycarbonate tube	1
2	MACH0306	REMOTE SIGHT TUBE END CAP	1
3	GA4932020-02	Pre-assembled dry sight tube base	1
4	GA5017873	Wire rope S'Steel steel 1.6mm cut 4000mm	1
5	GA5008643	Ferrule copper plated hand swage	1
6	GA5015221	Sight tube cable roller	1
7	GA5014817	Screw 10G x 5/8 Pan Head SS	4
8	GA5012529	O Ring BS024 34.65 x1.78	2
9	MACH0307	Remote Sight Tube Level Indicator	1
10	MACH0317	Level indicator insert	1

Venturi Filler



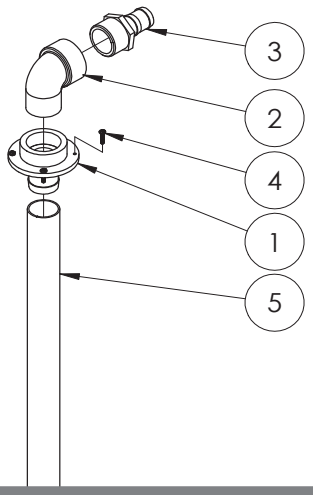
Note:
1 x GA5007235 Cobra Clamp 36.0/91.4310 Not Shown

Not all parts supplied with kit 500232 are used in this assembly

GA4903086	Pre-assembled venturi filler	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	500232	Venturi Filler. not assembled	1
2	106625	Hosetail D.25 for FlyNut 1 1/2	1
3	MACH0022	Jet for Arag venturi	1
4	HBF075	Hose barb female 3/4"	1
5	RB075050	Poly Pipe Reducer Bush 3/4 x 1/2	1
6	GA5050205	Hose Lay flat Blue - 32mm cut 405mm	1
7	G10061	O-Ring 29 x 3mm	1

Hopper Tank Inlet

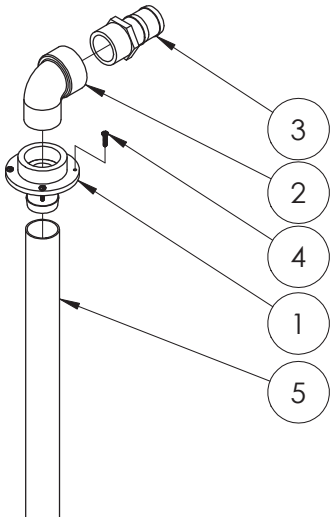


Note:
1 x GA5003325
2 x 2" SS hose clamp
Not shown

GA4903098 Complete hopper inlet flange

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L026A	Barb to suit tank top	1
2	SE200	Elbow 2 street 2 male to 2 female	1
3	HB200-150	Straight Hose Barb 2 x 1 1/2	1
4	GA5000527	Screw 12G x 1 XR STS Pan SS	4
5	GA4673860	50mm PVC Hose cut 1550mm	1
	GA5003325	Stainless Steel 2" clamp (not shown)	1

2" Tank Fill

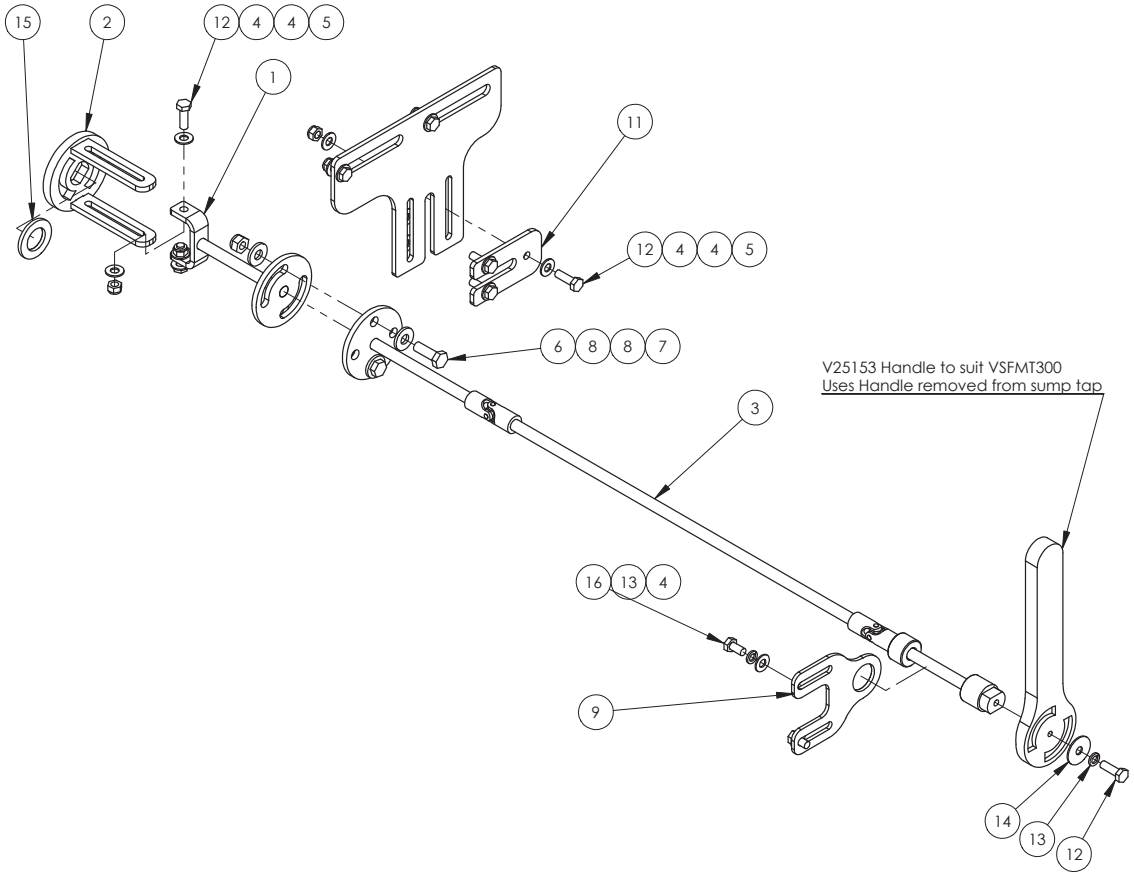


Note:
1 x GA5003325
2 x 2" SS hose clamp
Not shown

GA4903136 Complete 2" tank fill assembly

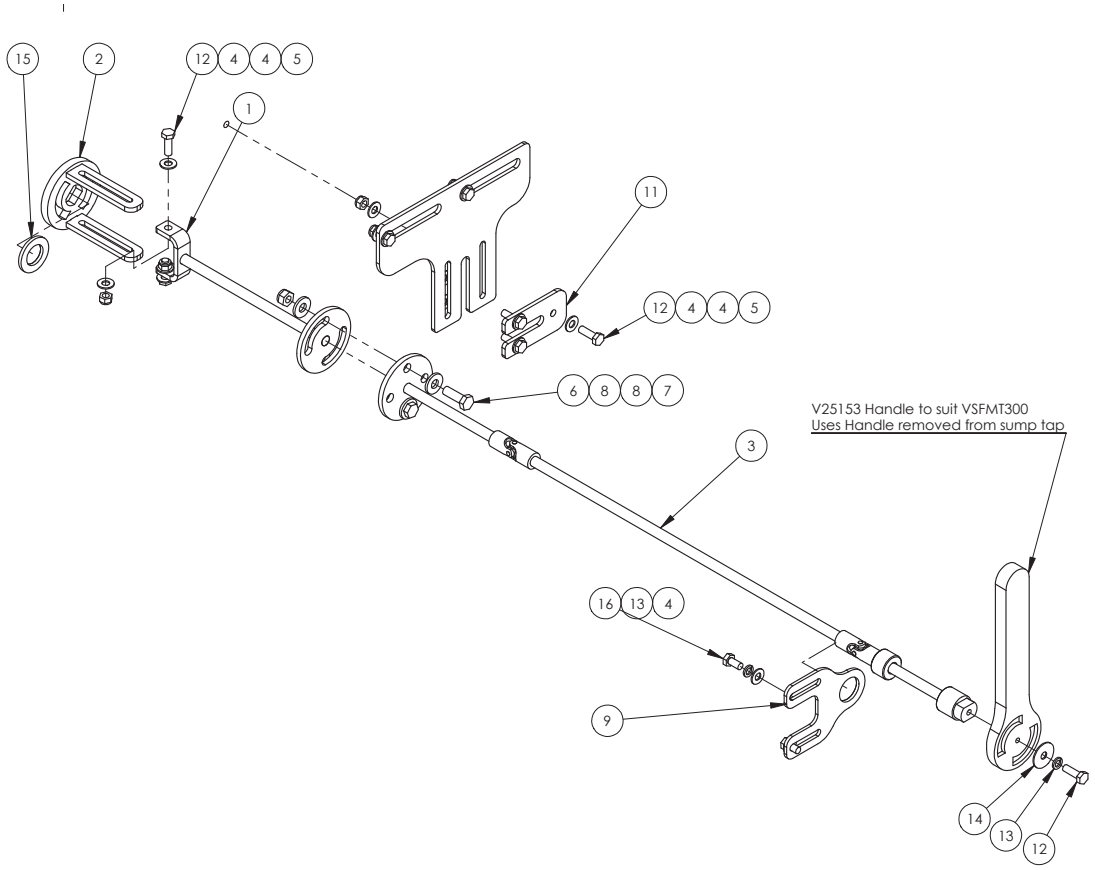
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L026A	Barb to suit tank top	1
2	SE200	Elbow 2 street 2 male to 2 female	1
3	HB200	Straight Hose Barb 2"	1
4	GA5000527	Screw 12G x 1 XR STS Pan SS	4
5	GA4673860	50mm PVC Hose cut 1550mm	1
	GA5003325	Stainless Steel 2" Clamp (not shown)	1

Remote Drain 4/5/6500lt



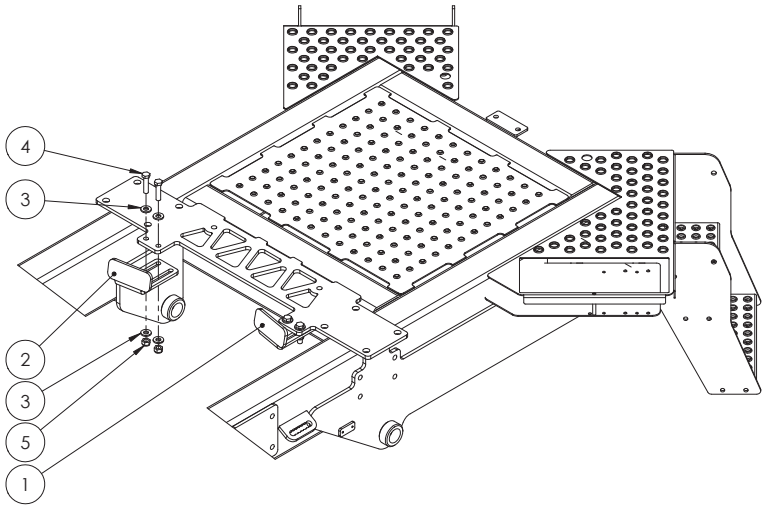
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653657	Sump ball valve inter drive shaft EF	1
2	GA4653656	Sump ball valve drive flange EF	1
3	GA4653658	Sump ball valve drive shaft EF	1
4	GA5004883	Washer 8mm HD	16
5	GA5004917	M8 Nyloc Nut	7
6	GA5065455	Bolt Gr8.8 M10x30	2
7	GA5000141	M10 Nyloc Nut	2
8	GA5000117	Washer 10mm SS Heavy duty	4
9	GA4513440	UNI ROD ALIGNING & SUMP HOSE HANGER PLATE	1
10	F70661A	UNI ROD HANGER PLATE	1
11	F70662A	UNI ROD CLAMPING PLATE	1
12	GA5004711	M8x25 bolt	8
13	GA5004919	M8 Spring washer SS	3
14	GA5003645	5-16 x 1 1-4 Flat washer SS	1
15	GA5001893	M24 Washer HD SS	1
16	GA5011465	M8x16 bolt H/T	2

Remote Drain 75/8500lt



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653664	Sump ball valve inter drive shaft suit 7500 and 8500	1
2	GA4653656	Sump ball valve drive flange EF	1
3	GA4653658	Sump ball valve drive shaft EF	1
4	GA5004883	Washer 8mm HD	16
5	GA5004917	M8 Nyloc Nut	7
6	GA5065455	Bolt Gr8.8 M10x30	2
7	GA5000141	M10 Nyloc Nut	2
8	GA5000117	Washer 10mm SS Heavy duty	4
9	GA4513440	UNI ROD ALIGNING & SUMP HOSE HANGER PLATE	1
10	F70661A	UNI ROD HANGER PLATE	1
11	F70662A	UNI ROD CLAMPING PLATE	1
12	GA5004711	M8x25 bolt	8
13	GA5004919	M8 Spring washer SS	3
14	GA5003645	5 -16 x 1 1-4 Flat washer SS	1
15	GA5001893	M24 Washer HD SS	1
16	GA5011465	M8x16 bolt H/T	2

Tank Stops

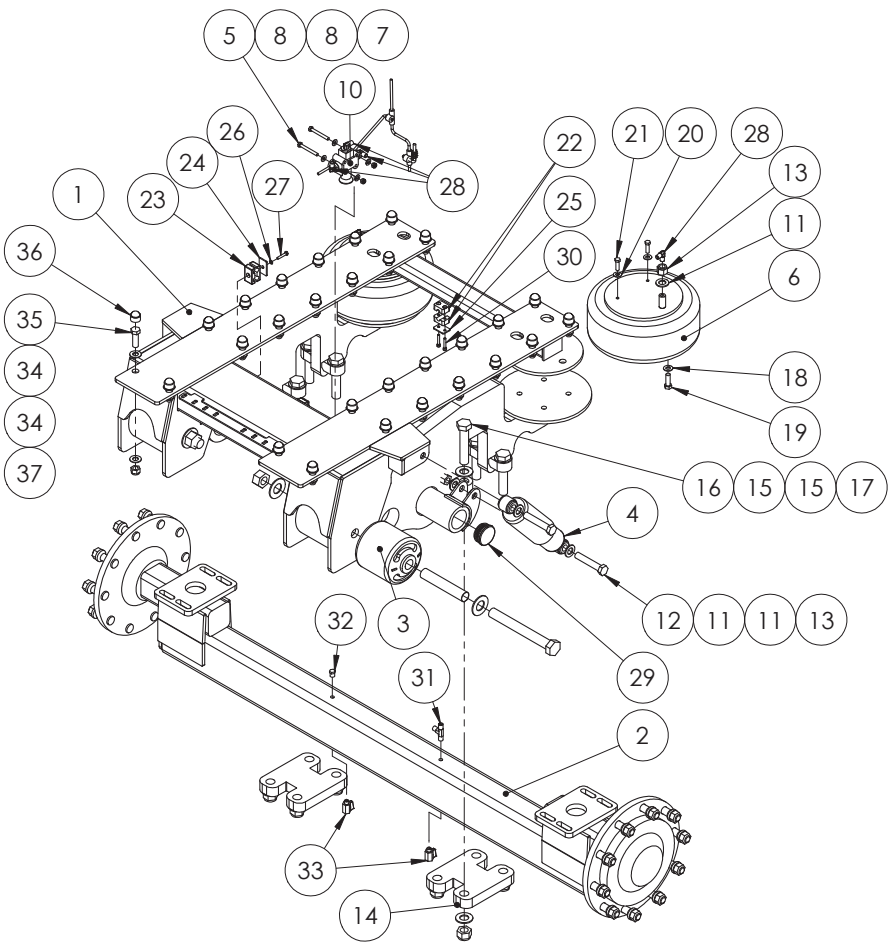


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4522515	Front tank stop RHS	1
2	GA4522510	Front tank stop LHS	1
3	GA5000587	M12 WASHER	8
4	GA5011239	M12x50 bolt	4
5	GA5012461	M12 Nyloc nut Z/P	4

Chapter 12

WHEELS, AXLES & MUDGUARDS

Air Bag Axle 4/5/6500lt



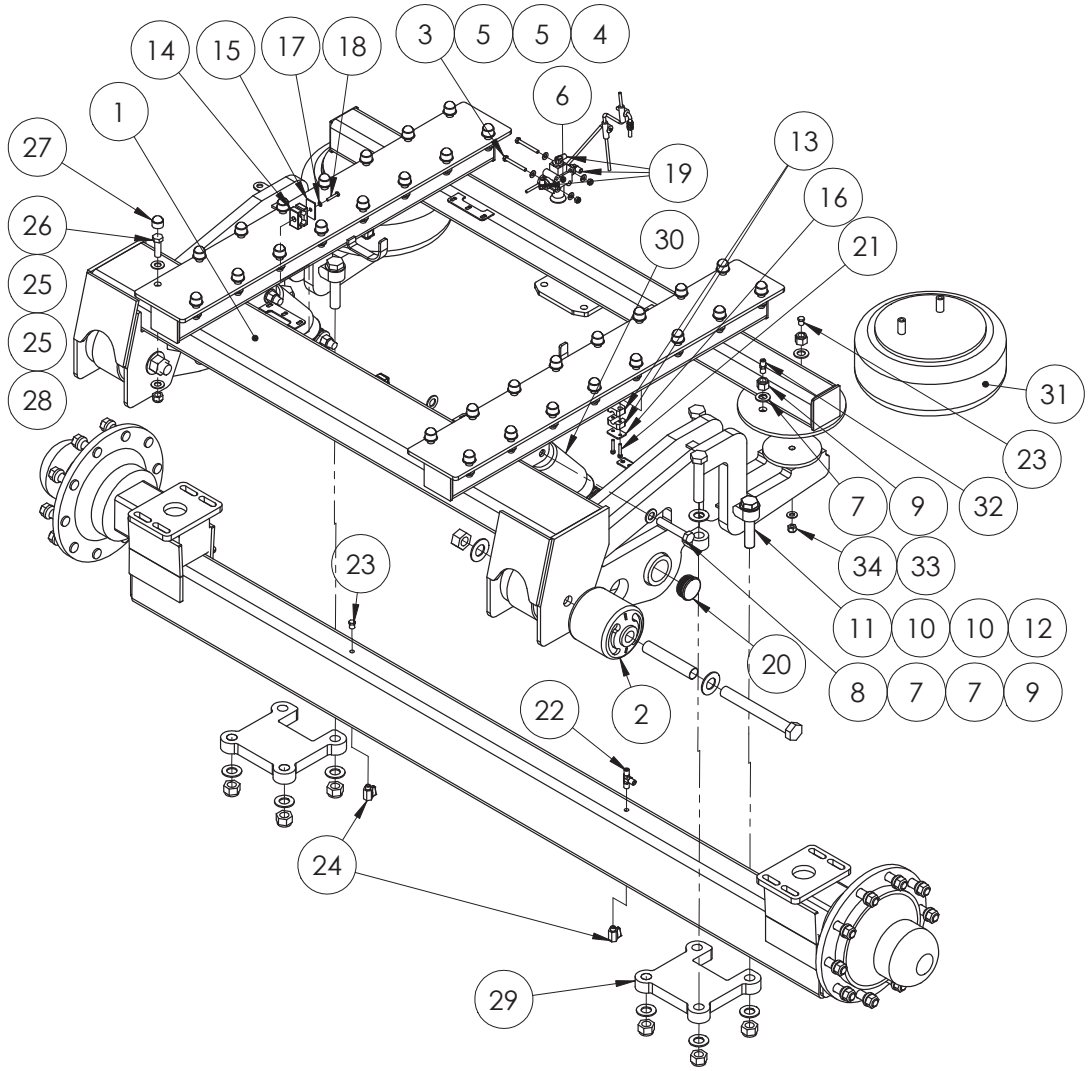
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652810	Prairie/Advance EF Airbag frame	1
2	GA4656920 GA4656925 GA4656930 GA4656935	Axle EF AirBag 2000mm 10 Stud Axle EF AirBag 2050mm 10 Stud Axle EF AirBag 2100mm 10 Stud Axle EF AirBag 3000mm 10 Stud	1
3	GA5066455	Trifunctional bush suit ADV EF	2
4	GA5015139	High control shocker	2
5	GA5004738	Bolt M8 x 70 HT ZP	2
6	GA5005311	Air spring HT230 single air stud	2

Air Bag Axle

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	GA5004917	M8 Nyloc Nut	2
8	GA5004883	Washer 8mm HD	4
9	GA5002539	3/4 Z/P Comm Flat Washers	1
10	GA5010867	Ride height levelling valve (includes lever arms)	1
11	GA5001739	M20 Heavy Duty Flat Washer	13
12	GA5049490	Bolt 3/4 x 4 UNC HT ZP	4
13	GA5048430	3/4" UNC Nyloc Nut	6
14	GA4632050	Suspension narrow retainer	2
15	GA5017659	Washer 1" Flat HD ZP	16
16	GA5006031 GA5006151	1" x 5" UNC Bolt (2050mm axles) 1" x 8" UNF Bolt (3000mm axles)	8
17	GA5012439 GA5012445	1" Nyloc Nut UNC ZP (2050mm axles) 1" Nyloc Nut UNF ZP (3000mm axles)	8
18	GA5017615	Washer 1/2 Flat ZP Heavy Duty	8
19	GA5068715	1/2 In UNC x 1.5 In Bolt	8
20	GA5017623	Washer 3/8 Flat ZP Heavy Duty	4
21	GA5002599	Set Screw 3/8 x 1 1/4 UNC S/Steel	4
22	RCS-14J	Single Clamp Jaws PP Gr3 14mm	4
23	RCD-14J	Double Clamp Jaws PP Gr 214mm	4
24	RCD-2PT	Double Clamp Plate Top GR2	2
25	RCS-2PT	Single Clamp Top Plate grp 2	2
26	GA5004447	M6 Spring washer SS	2
27	GA5011405	M6x35 bolt	2
28	S49-0404	Ryco 1/4" 90 Deg Elbow	5
29	GA5051366	Insert round 63.5 x 1.25 - 2.0mm	2
30	GA5011425	M6 x 35mm Cap Screw	4
31	S50-040404	Tee 1/4" BSPT	1
32	GA5069335	Plug 1/4" BSPT Brass	1
33	GA5018323	1/4" M-F Ball Valve (SS)	2
34	GA5001009	Flat washer M16 HD	56
35	GA5000931	M16x50 bolt	28
36	GA5075080	Hex nut protection cap suit M16 black	28
37	GA5001029	M16 Nyloc nut	28

Note: Rubber tee suit ride height levelling valve - GA5014651

Air Bag Axle 75/8500lt



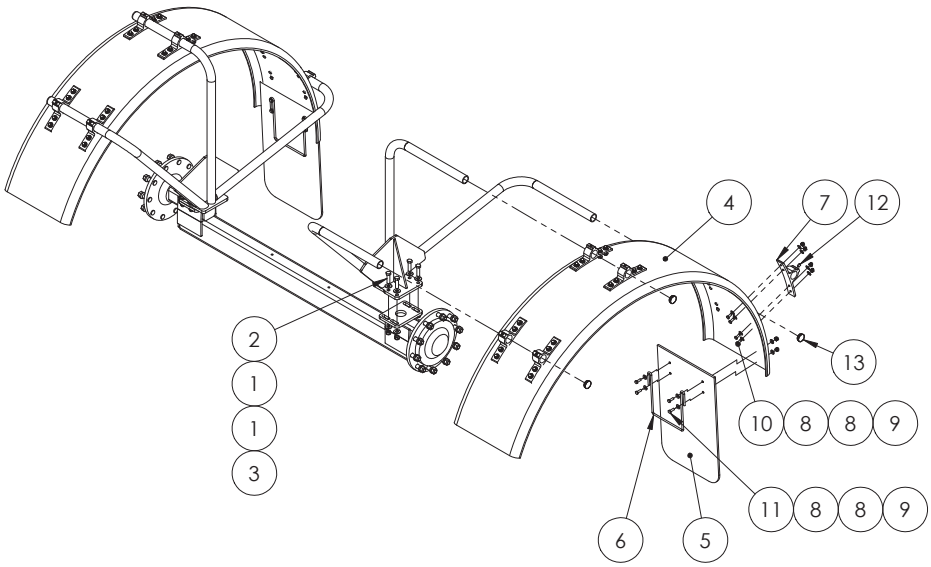
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652838	Axle airbag frame suit 7500 L	1
2	GA5066455	Trifunctional bush suit ADV EF	2
3	GA5004738	Bolt M8 x 70 HT ZP	2
4	GA5004917	M8 Nyloc Nut	2
5	GA5004883	Washer 8mm HD	4
6	GA5010867	Ride height leveling valve (includes lever arms)	1
7	GA5001739	M20 Heavy Duty Flat Washer	14
8	GA5049490	Bolt 3/4 x 4 UNC HT ZP	4
9	GA5048430	3/4" UNC Nyloc Nut	8
10	GA5017659	Washer 1" Flat HD ZP	17
11	GA5006031	1" x 5" UNC Bolt	10
12	GA5012439	1" Nyloc Nut UNC ZP	8
13	RCS-14J	Single Clamp Jaws PP Gr3 14mm	4
14	RCD-14J	Double Clamp Jaws PP Gr 2 14mm	6

Air Bag Axle 75/8500lt

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
15	RCD-2PT	Double Clamp Plate Top GR2	3
16	RCS-2PT	Single Clamp Top Plate grp 2	2
17	GA5004447	M6 Spring washer SS	3
18	GA5011405	M6x35 bolt	3
19	S49-0404	ryco 1/4" 90 Deg Elbow	3
20	GA5051366	Insert round 63.5 x 1.25 - 2.0mm	2
21	GA5011425	M6 x 35mm Cap Screw	4
22	S50-040404	Tee 1/4" BSPT	1
23	GA5069335	Plug 1/4" BSPT Brass	3
24	GA5018323	1/4" M-F Ball Valve (SS)	2
25	GA5001009	Flat washer M16 HD	64
26	GA5000931	M16x50 bolt	32
27	GA5075080	Hex nut protection cap suit M16 black	32
28	GA5001029	M16 Nyloc nut	32
29	GA4612225	Bottom axle retaining plate	2
30	GA5015139	High control shocker	2
31	GA5005115	Air spring dual stud	2
32	S27-0404	1/4" x 1/4" Steel Nipple	2
33	GA5017615	Washer 1/2 Flat ZP Heavy Duty	2
34	GA5050580	1/2" UNC Nyloc Nut	2

Note: Rubber tee suit ride height levelling valve - GA5014651

Mudguards



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5001043	M16 SS washer	16
2	GA5000939	M16x60 bolt	8
3	GA5001029	M16 Nyloc nut	8
4	GA5003825	Mudguard W500xR1000	2
5	GA5011949	Goldacres Mudflap	2
6	GA5075070	Anti sail mudguard bracket	2
7	GA5020450	Mudguard Bracket Plastic Black BK-P300BK1	12
8	GA5002565	Washer 3/8 x 1" Flat SS	112
9	GA5011133	Nut M10 Dome nut SS	56
10	GA5066162	M10x25 SS bolt	48
11	GA5006145	M10 x 30 SS Bolt	8
12	GA5050675	Grub Screw M12 x 16 SS	12
13	GA5003925	Insert round 45mm x 0.8 - 3.0mm	6

38" Wheels, Rigid axle	
Part No	Description
GA4900591-P-EF-R	Mudguards kit 38" to suit EF with rigid axle.
GA4655082	Mudguard bkt 38" RH EF non airbag
GA4655083	Mudguard bkt 38" LH EF non airbag
38" Wheels, Air bag axle	
GA4900591-EF-NS-38	Mudguards kit 38" to suit EF with a/bag susp.
GA4655078	Mudguard bkt 38" RH EF airbag
GA4655079	Mudguard bkt 38" LH EF airbag

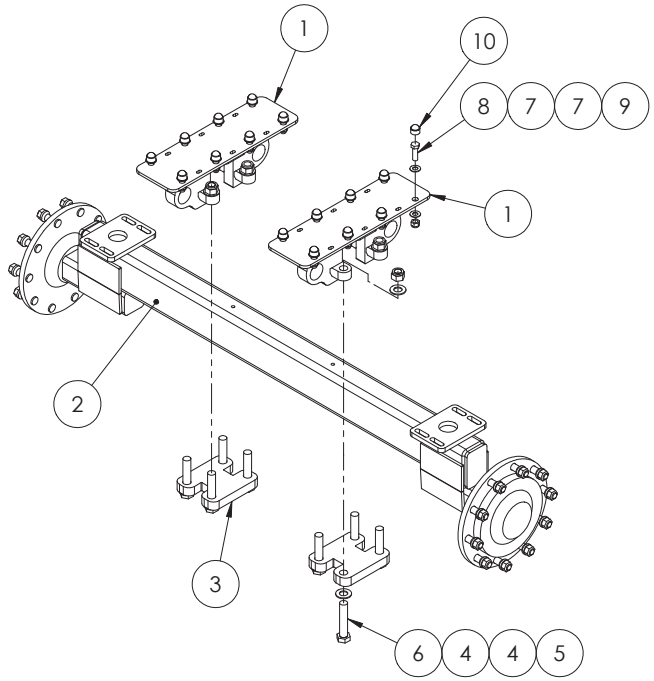
Continued over page

Mudguards

42" Wheels, Rigid axle	
Part No	Description
GA4900591-P-EF-R-42	Mudguards kit 42” to suit EF with rigid axle.
GA4655088	Mudguard bkt 42” RH EF non airbag
GA4655089	Mudguard bkt 42” LH EF non airbag
42” Wheels, Air bag axle	
GA4900591-EF-NS-42	Mudguards kit 42” to suit EF with a/bag susp.
GA4655076	Mudguard bkt 42” RH EF airbag
GA4655077	Mudguard bkt 42” LH EF airbag

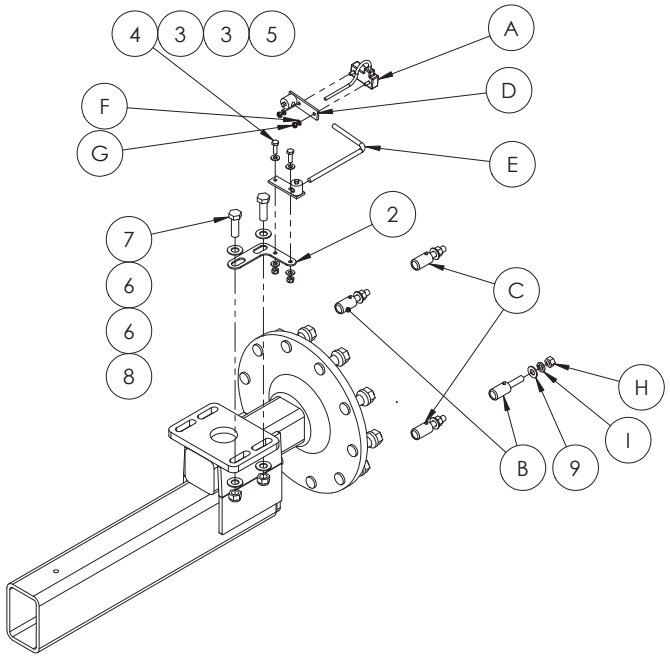
38” & 42” Wheels, Steering axle (not shown)		
Part Number	Description	QTY
GA4900591-EF-S	Full mudguard kit	1
GA4655247	Mudguard bracket adj	6
GA5001029	Mudguard 500W x R1000	2
GA5003825	M16 x 60mm bolt	18
GA5000941	M16 Nyloc Nut	18
GA5001043	16mm washer	36
GA5075070	Anti sail mudguard bracket	2
GA5011949	Goldacres mudflap	2
GA5066162	M10 x 25mm SS bolt	12
GA5011133	Nut M10 dome nut SS	20
GA5002665	Washer 3/8 x 1" flat SS	40
GA5006145	M10 x 30 SS bolt	8

Rigid Axle



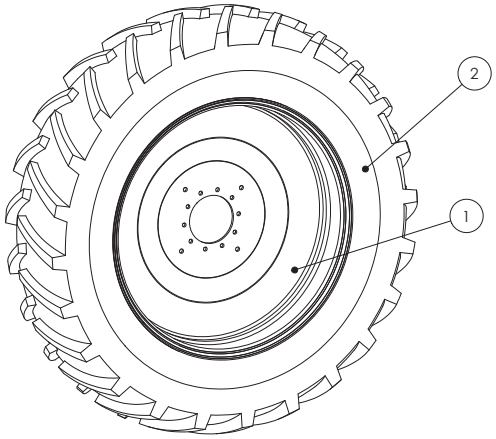
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652986	Axle carier suit EF chassis	2
2	GA4657815	Axle EF Rigid 1800mm 10 Stud	1
	GA4656921	Axle EF Rigid 2000mm 10 Stud	
	GA4656926	Axle EF Rigid 2050mm 10 Stud	
	GA4656931	Axle EF Rigid 2100mm 10 Stud	
	GA4656936	Axle EF Rigid 3000mm 10 Stud	
3	GA4632050	Suspension narrow retainer	2
4	GA5017659	Washer 1" Flat HD ZP	16
5	GA5012439	1" Nyloc Nut UNC ZP	8
6	GA5006031	1" x 5" UNC Bolt	8
7	GA5001009	Flat washer M16 HD	32
8	GA5000931	M16x50 bolt	16
9	GA5001029	M16 Nyloc nut	16
10	GA5075080	Hex nut protection cap suit M16 black	16

Wheel Speed Sensor



Wheel speed sensor kit 0630171152			
Item No	Part No	Description	Quantity
A	0630171149	Speed sensor with 7 1/2 ft cable	1
B	0630159402	Red magnet north	2
C	0630159403	Black magnet south	2
D	0630159483	Turret assembly	2
E	1070159472	Speed sensor rod	1
F	3131000016	1/4 lock washer	2
G	3121001031	1/4-20 Hex nut	2
H	3121001043	1/2-13 Hex nut	
I	3131000028	1/2 lock washer	4

Wheels



Please note wheels are fitted as a left and right hand pair, So when ordering complete wheel and tyre unit please note on the order which side is required. Rims are supplied painted and with speed sensor holes.

ITEM NUMBER	PART NUMBER	DESCRIPTION	QTY.
1	0630171152	Raven Wheel speed sensor kit	1
2	GA4534520	Speed Sensor Tab Bolt On	1
3	GA5004883	Washer 8mm HD	4
4	GA5004711	M8x25 bolt	2
5	GA5004917	M8 Nyloc Nut	2
6	GA5001009	Flat washer M16 HD	4
7	GA5000931	M16x50 bolt	2
8	GA5001029	M16 Nyloc nut	2
9	GA5017615	Washer 1/2 Flat ZP Heavy Duty	4

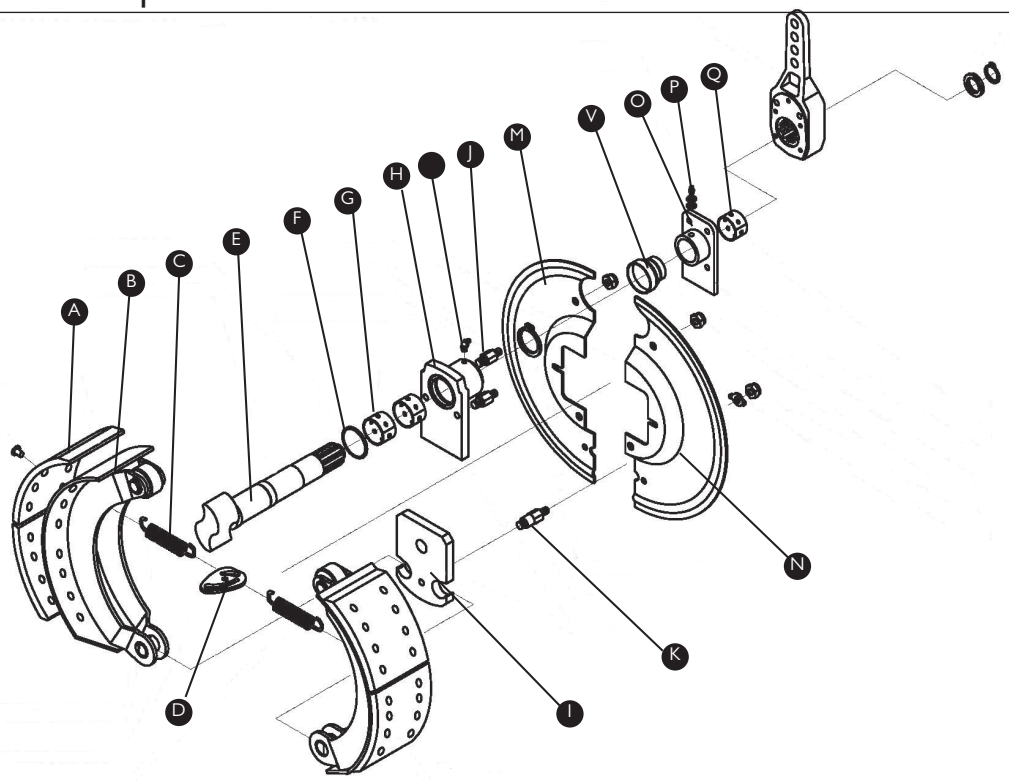
18.4 x 38 wheels		
Item	Part number	Description
1	GA4901410	Complete wheel and tyre
2	GA5018820	38” x 15” Wheel, 10 stud, 0 offset
3	GA5001107	18.4x38 Tyre 16 ply

18.4 x 42 wheels		
Item	Part number	Description
1	GA4901414	Complete wheel and tyre
2	GA5020225	42” x 16” Wheel, 10 stud, 0 offset
3	GA5001105	18.4x42 Tyre 16 ply

20.8 x 42 wheels		
Item	Part number	Description
1	GA4901415	Complete wheel and tyre
2	GA5001105	42” x 18” Wheel, 10 stud, 0 offset
3	GA5020830	20.8x42 Tyre 16 ply

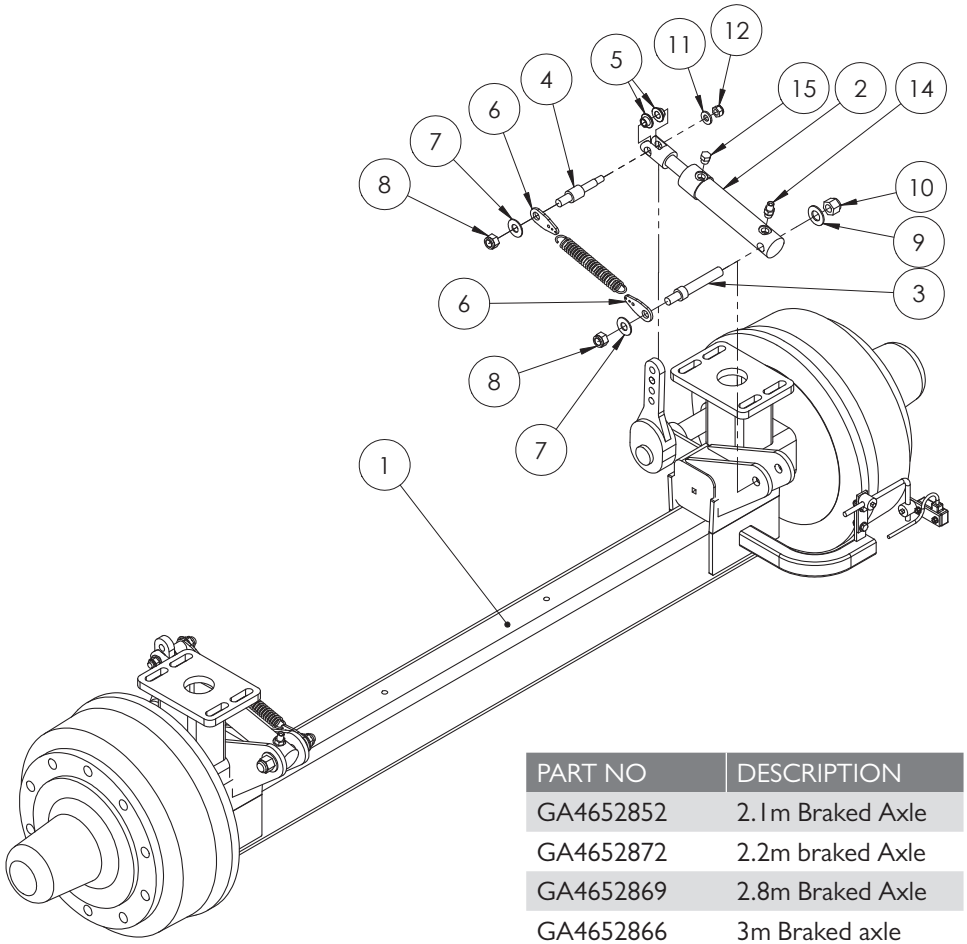
Wheel Nuts	
Part number	Description
GA5018892	22mm wheel nut
GA5018900	M22 Tapered washer

Brake Components



ITEM	PART NO	DESCRIPTION	QTY
A	GA5062505	Brake Shoe	2
B	GA5062510	Brake Shoe Holder	2
C	GA5062515	Brake Return Spring	2
D	GA5062520	Brake Return Spring Mount	1
E	GA5062525	S Cam	1
F	GA5062530	O-Ring	1
G	GA5062535	Spacers	2
H	GA5062540	S Cam Mount	1
I	GA5062545	Lower Brake Shoe Mount	1
J	GA5062550		2
K	GA5062555		1
L	GA5062560	Grease Nipple	1
M	GA5062565	Backing Plate (Left)	1
N	GA5062570	Backing Plate (Right)	1
O	GA5062575	Brake Lever Mount	2
P	GA5062580	Grease Nipple (long)	2
Q	GA5062585	Spacer Bush	1
R	GA5062590	Nut	2
S	GA5062595	Brake Lever	1
T	GA5062600	Washer	1
U	GA5062605	Circlip	1
V	GA5062610	Rubber Boot	1
	GA5062615	Brake Drum (Not Shown)	1

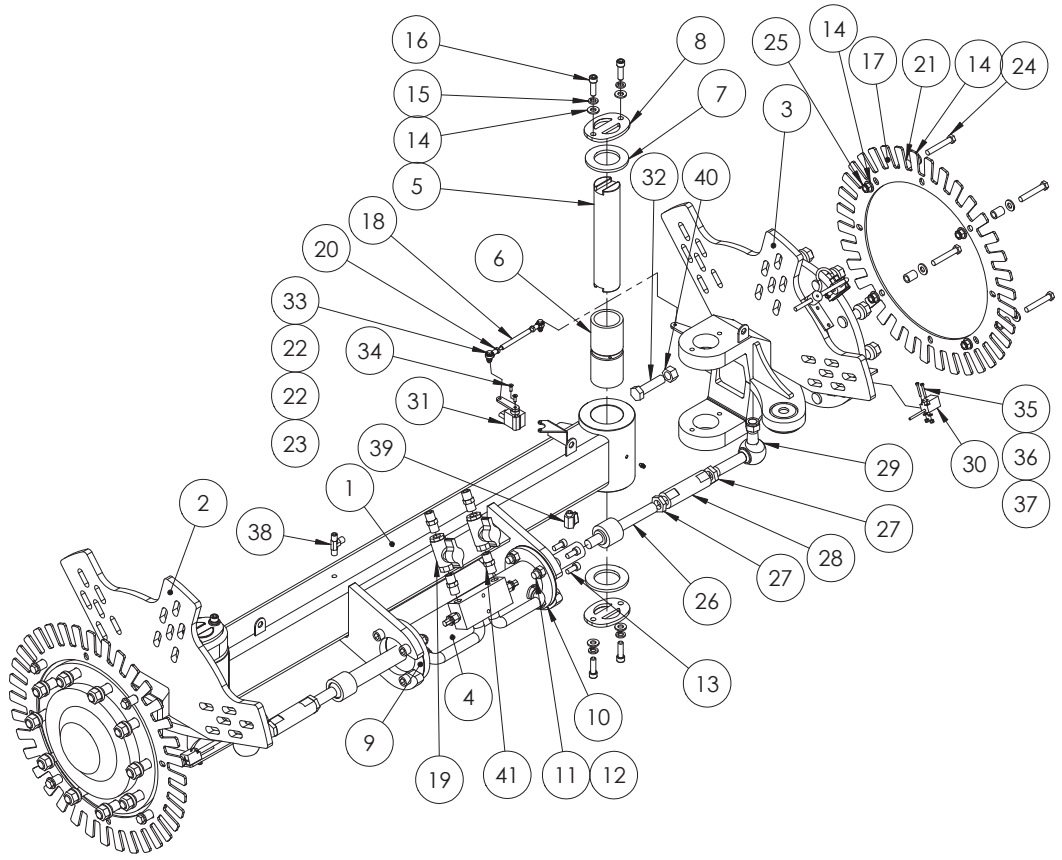
Braked Axle Assembly



PART NO	DESCRIPTION
GA4652852	2.1m Braked Axle
GA4652872	2.2m braked Axle
GA4652869	2.8m Braked Axle
GA4652866	3m Braked axle

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652852	Axle EF suit airbag 2100-10 stud braked	1
2	GA5016121	Hydraulic Ram 1.5" Bore, 1" Rod, 100mm Stroke	2
3	MACH0201	Spring and ram mounting pin (mounting end)	2
4	MACH0202	Spring and ram mounting pin (crank end)	2
5	MACH0200	Spacer bush for ram clevis	4
6	F70121A	Hopper spring retainer	4
7	GA5001043	M16 SS washer	4
8	GA5001029	M16 Nyloc nut	4
9	GA5002539	3/4 Z/P Comm Flat Washers	2
10	GA5048430	3/4" UNC Nyloc Nut	2
11	GA5000587	M12 WASHER	2
12	GA5012461	M12 Nyloc nut Z/P	2
13	GA5007755	Tension spring, 3.15mm wire,25mm helix, 180mm long	2
14	S93-0409	Nipple 1/4" BSPP x 9/16 UNO-ring	2
15	S97-09	9/16 UNO-ring bung	2

Steering Axle Assembly

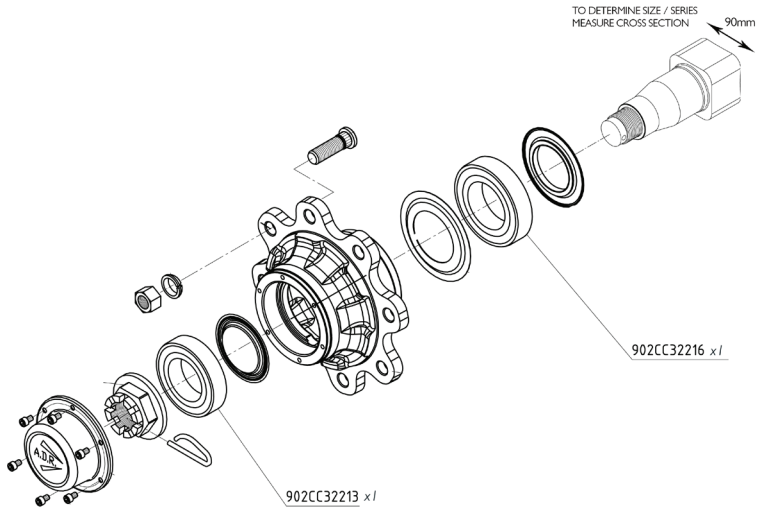


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652730	Axle housing Advance steerable	1
2	GA4652972	Axle steer arm and stub PA LH	1
3	GA4652971	Axle steer arm & Stub PA RH	1
4	GA5066585	Hypower circular flanged end 3"x 10" stroke	1
5	GA4552315	steering king pin	2
6	GA4552310	steering bush	2
7	GA4552305	Thrust washer	4
8	GA4502280	pin retainer	4
9	GA4514640	Steering ram shim plate	2
10	GA4514635	Flange plate for Steering ram	1
11	GA5048680	M16x60 Unbrako	8
12	GA5001029	M16 Nyloc nut	8
13	GA5070250	7/16" x 1" UNF 20 TPI Unbrako Bolt	4
14	GA5000587	M12 WASHER	24
15	GA5000575	M12 Spring washer SS	8
16	GA5000321	M12x40 unbrako	8
17	GA4535570	Wheel Speed Sensor Disc For Steering (36 Instances)	2

Steering Axle Assembly

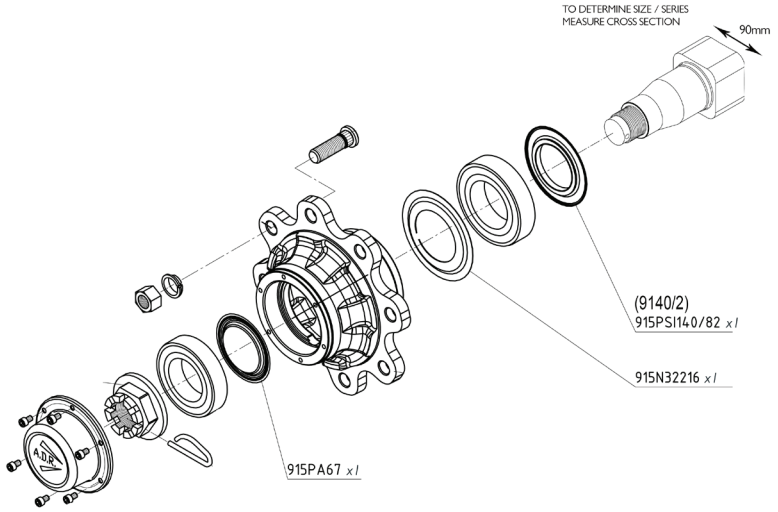
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA4583065	Link Rod Steering Axle Sensor	1
19	GA5000835	Ball valve hydraulic 1/2" FF	2
20	GA5052725	Rod End 6mm female	2
21	24MK3CS011	MACH Crush tube	8
22	GA5004437	M6 SS Washer	4
23	GA5048115	Nut nyloc M6	2
24	GA5000351	M12x75 bolt	8
25	GA5012461	M12 Nyloc nut Z/P	8
26	GA5065045	In-line ball joint	2
27	GA5011341	M24x1.5 lock nut	4
28	GA4562090	Tie rod for 2m STD front axle	2
29	GA5065040	Ball Joint right angle M24x1.5	2
30	16-40004	Sensor, prox SPD	2
31	GA5047668	Angle of Rotation Sensor	1
32	GA5001567	M20x75 HT bolt	2
33	GA5004073	M6x25 bolt	2
34	GA5051230	Bolt M5 x 16mm FHCS 45°	2
35	GA5011367	M4 x 30 SHCS	4
36	GA5020510	M4 Washer Heavy duty SS	4
37	GA5049025	Nut M4 Nyloc SS	4
38	S50-040404	Tee 1/4" BSPT	1
39	GA5018323	1/4" M-F Ball Valve (SS)	2
40	GA5001709	Nut M20 Coarse Zinc	2
41	S27-0808-0808	BSPTM BSPMT nipple	4
42	GA5012203	Grease nipple 1/4” UNF short	2

Hubs, 90 Series, Bearing Kit



Part No	Description	Quantity
GA5052200	90 Series Bearing Kit	1
902CC32216	Inner Hub Bearing	1
902CC32213	Outer Hub Bearing	1

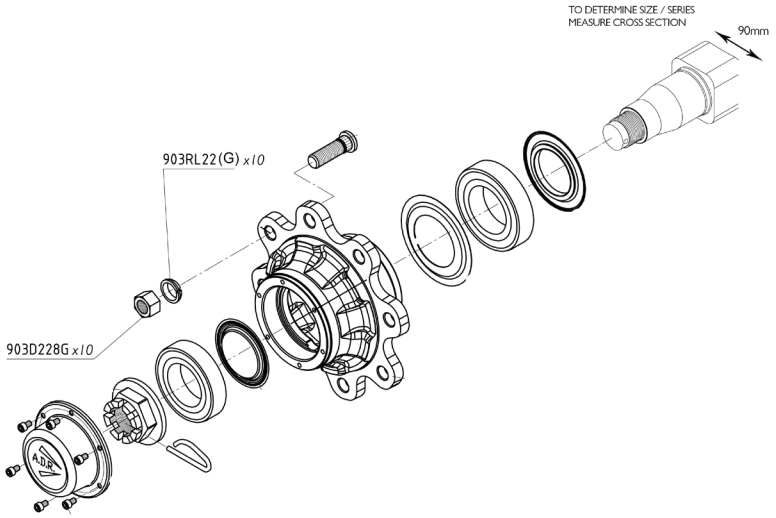
Hubs, 90 Series, Seal Kit



Part No	Description	Quantity
GA5052195	90 Series Seal Kit	1
GA5066405	Heavy Duty Hub Seal	1
915N32216	Inner Bearing Seal	1
915PA67	Outer Gearing Seal	1

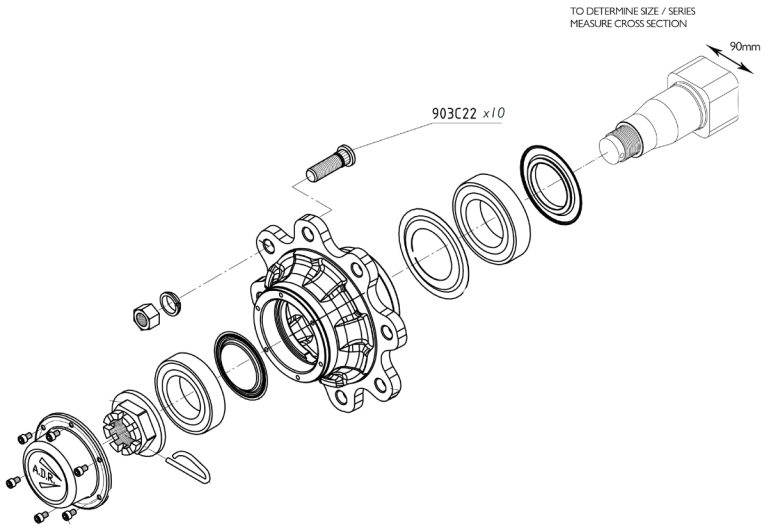
Note: Kits are per hub

Hubs, 90 Series, Nut Kit



Part No	Description	Quantity
GA5052165	90 Series Nut Kit	1
903RL22(G)	Wheel Nut Washer	10
903D228G	Wheel Nut	10

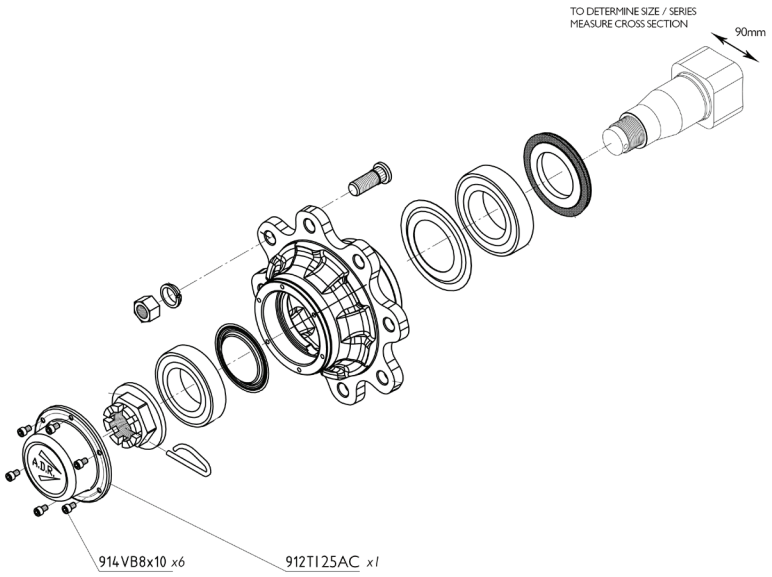
Hubs, 90 Series, Stud Kit



Part No	Description	Quantity
GA5052205	90 Series Stud Kit	1
903C22	Wheel Stud	10

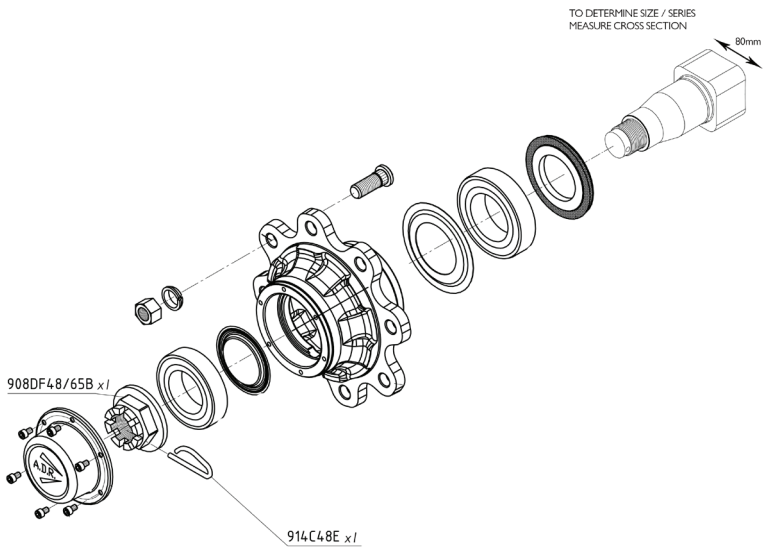
Note: Kits are per hub

Hubs, 90 Cap Kit



Part No	Description	Quantity
GA5052120	90 Series Cap Kit	1
912T125AC	Dust Cap	1
914VBE	Dust Cap Screws	6

Hubs, 80 Series, Crown Nut Kit

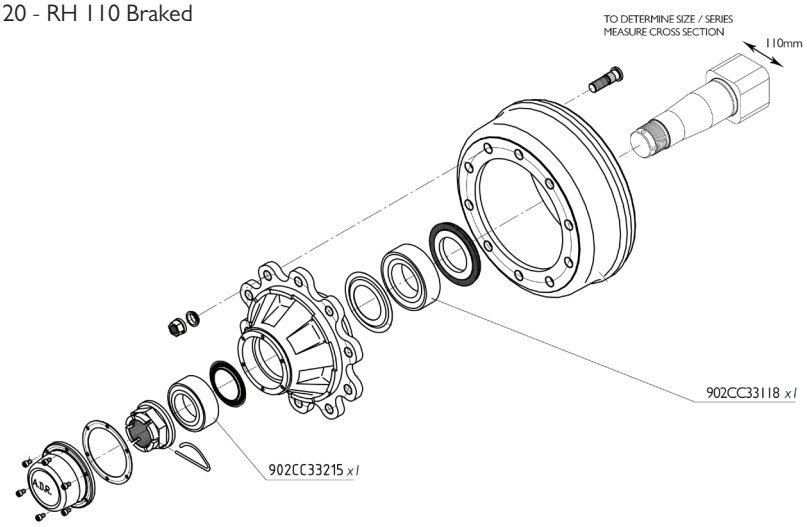


Part No	Description	Quantity
GA5052190	80/90 Series Crown Nut Kit	1
908DF48/65B	Crown Nut	1
914C48E	Retainer Clip	1

Note: Kits are per hub

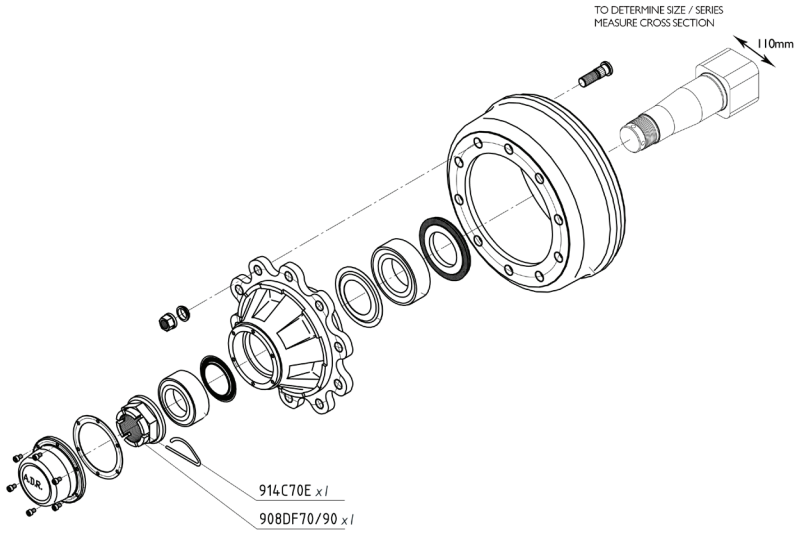
Braked Hubs, 110 Series, Bearing Kit

Complete 110 Series Hubs/Stub Axles Available
Part No: GA5018121 - LH 110 Braked
GA5018120 - RH 110 Braked



Part No	Description	Quantity
GA5052135	110 Series Bearing Kit	1
902CC33118	Inner Bearing	1
902CC33215	Outer Bearing	

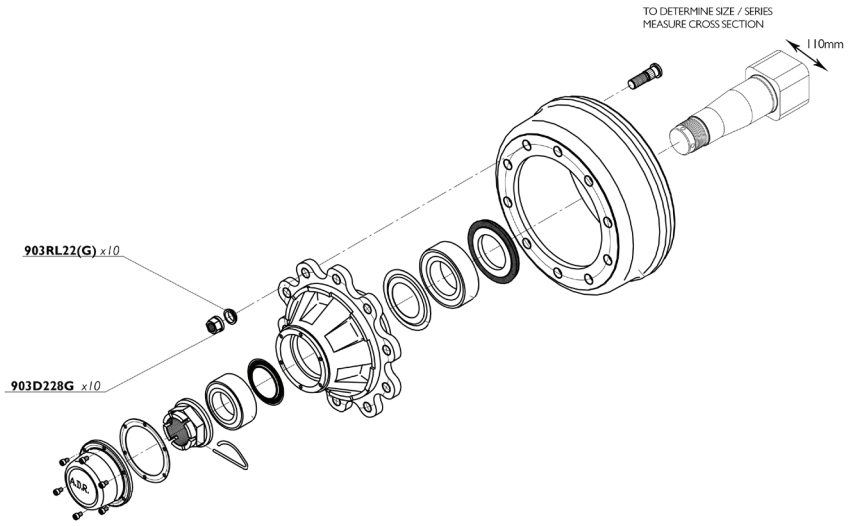
Braked Hubs, 110 Series, Crown Nut Kit



Part No	Description	Quantity
GA5052140	Crown nut kit, 110 Series, ADR	1
57548B6	Crown Nut	1
58209	Retainer Clip	1

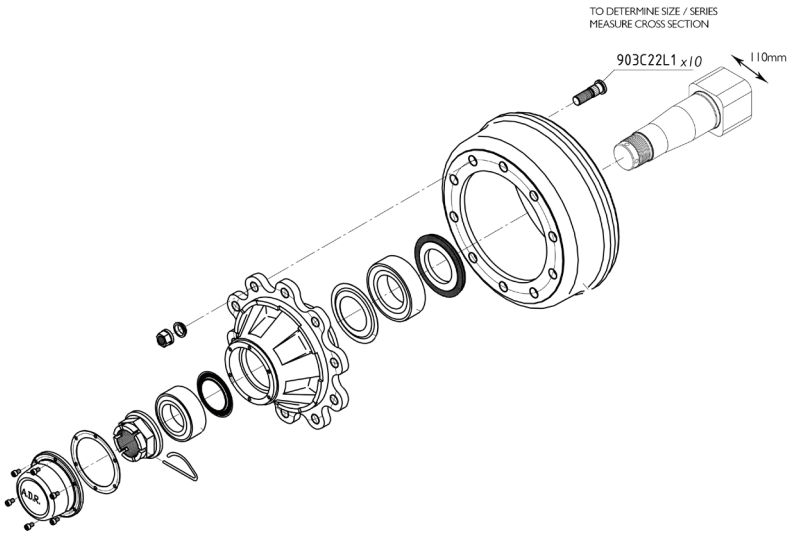
Note: Kits are per hub

Braked Hubs, 110 Series, Nut Kit



Part No	Description	Quantity
GA5052165	110 Series Nut Kit	1
903RL22(G)	Wheel Nut Washer	10
903D22G	Wheel Nut	10

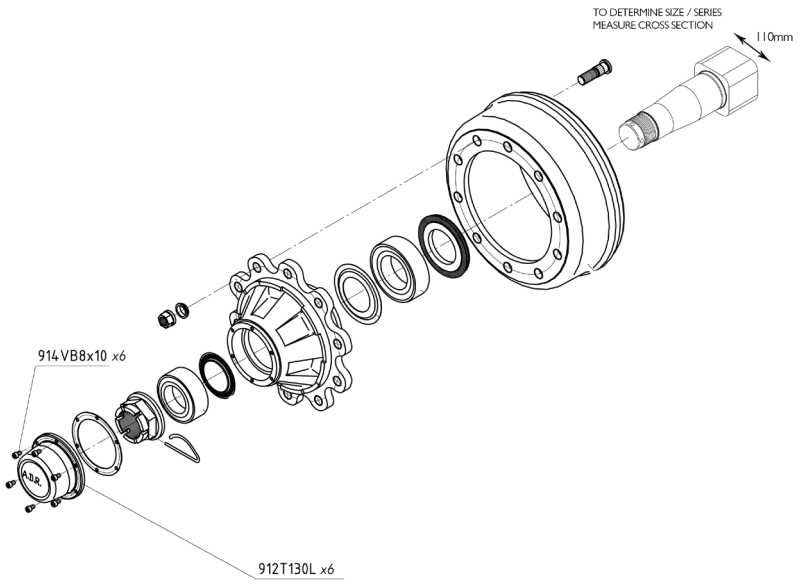
Braked Hubs, 110 Series, Stud Kit



Part No	Description	Quantity
GA5052125	110 Series Stud Kit	1
903C22L1	Wheel Stud	10

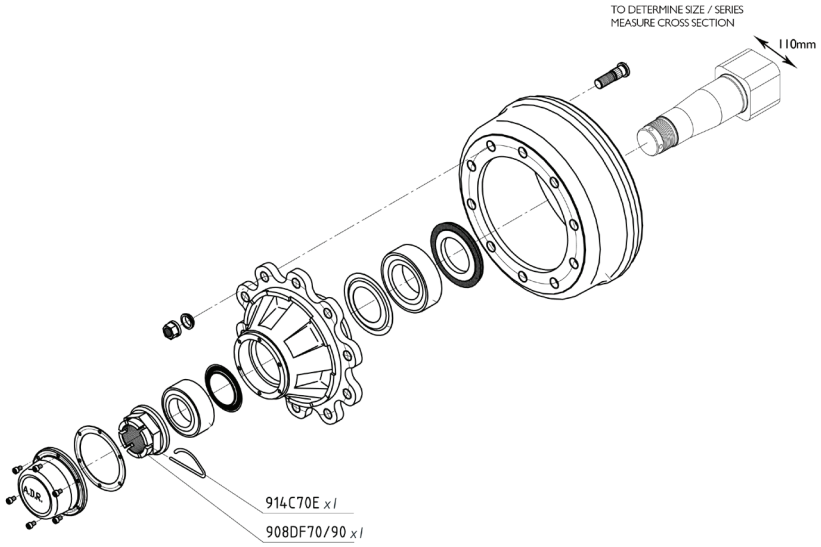
Note: Kits are per hub

Braked Hubs, 110 Series, Cap Kit



Part No	Description	Quantity
GA5052145	110 Series Cap Kit	1
914VB8	Dust Cap Screws	6
912T130L	Dust Cap	1

Braked Hubs, 110 Series, Crown Nut Kit



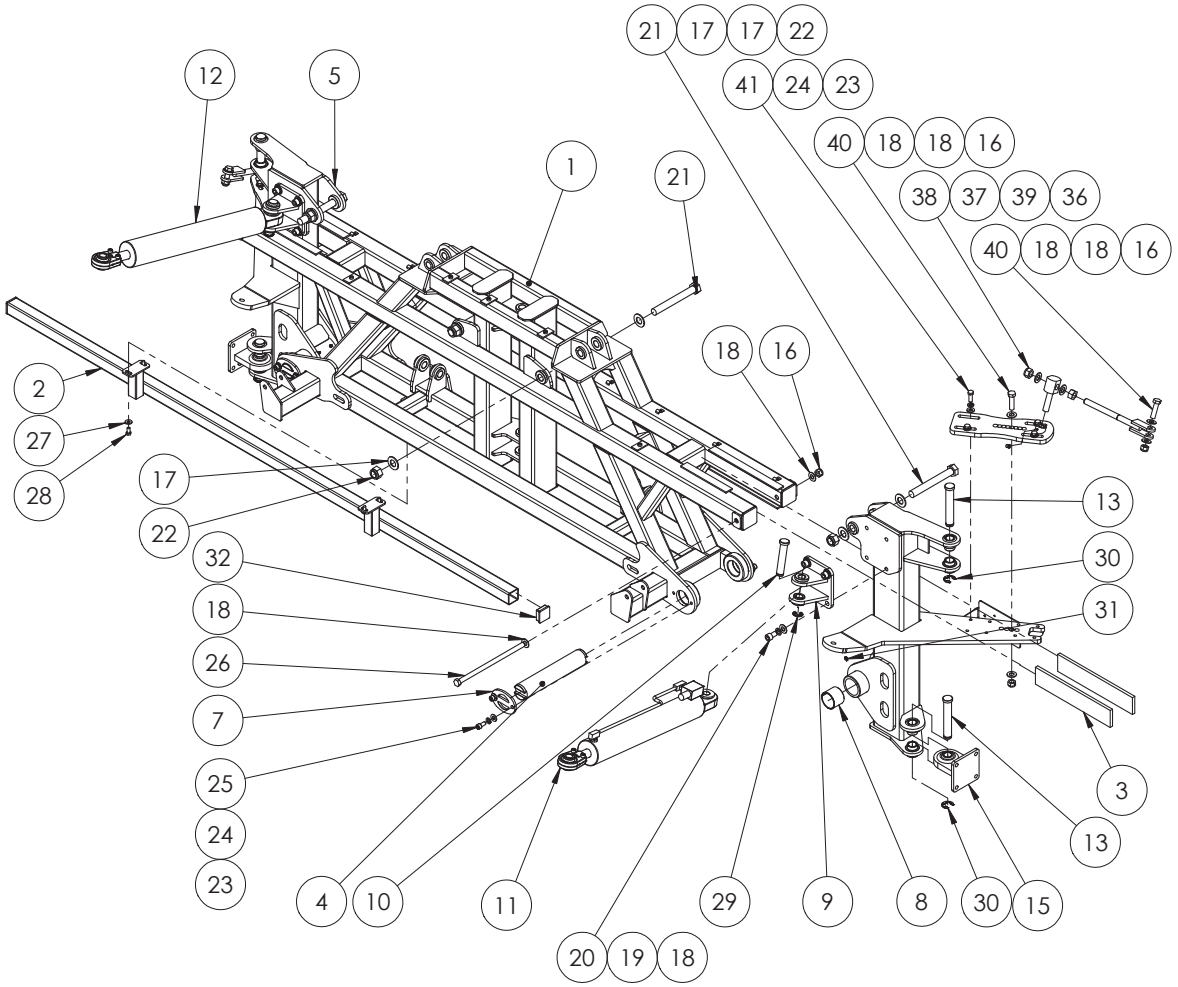
Part No	Description	Quantity
GA5052140	Crown nut kit, 110 Series, ADR	1
914VB8	Dust Cap Screws	6
912T130L	Dust Cap	1

Note: Kits are per hub

Chapter 13

BOOM CENTRE

Boom Centre Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658120	Centre section 2011	1
2	GA4658145	Spray bar suit 2011 center section	1
3	GA5075090	Wear pad suit 2011 center wear strip polystone 7000SR 380 x 74 x 12mm	4
4	GA4572365	Tilt pin suit wide centre	2
5	GA4658125	2011 Boom centre tilt arm RH	1
6	GA4658130	2011 Boom centre tilt arm LH	1
7	GA4502280	Pin retainer	4

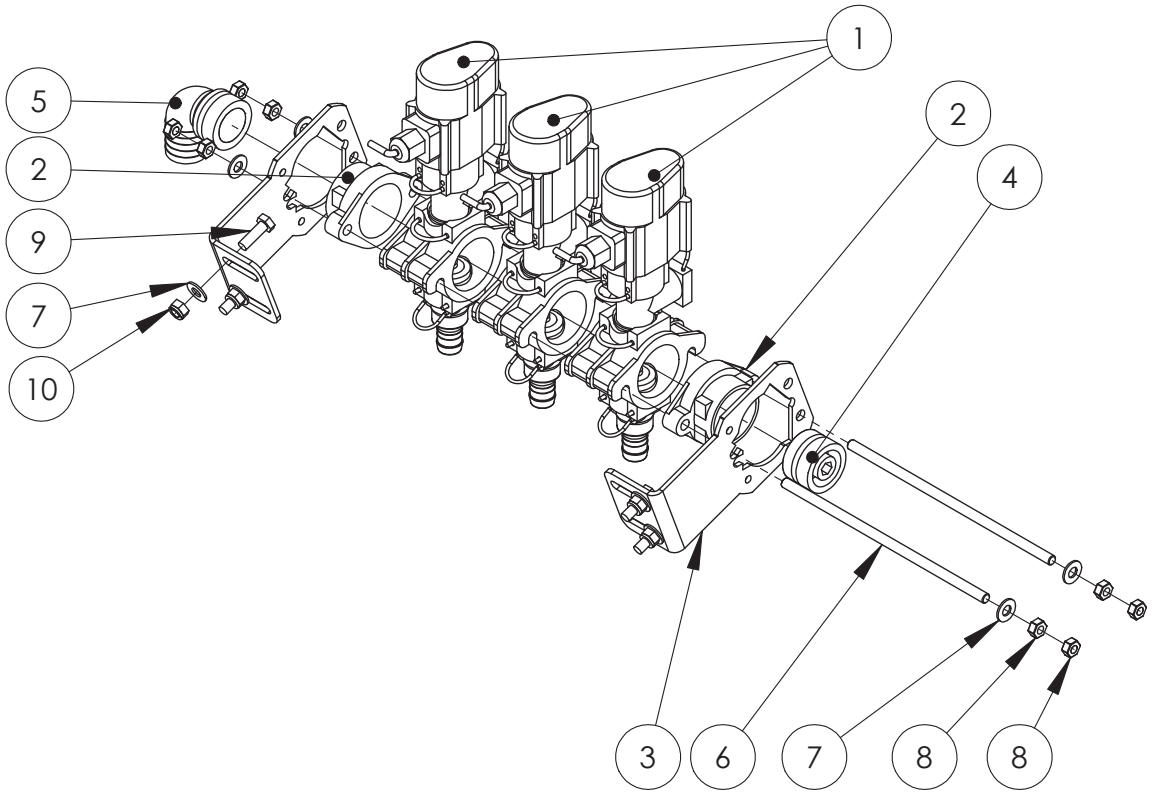
Continued over page

Boom Centre Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	GA5075060	Glacier Bush 60mm ID x 50mm Long	4
9	GA4653316	Boom centre 2011 24m+ fold ram mnt 1"	2
10	GA4572200	Center section fold ram pin suit mk2 and mk3 - 09	2
11	GA5018542	Phasing cylinder 3.25x18x1.25 (external p)	1
12	GA5018538	Phasing cylinder 3x18x1.25 (external phasing)	1
13	L003A Pin	1 1/8 (suit boom pivot)	4
14	GA4656200	Lower rose end mounting assembly RH	1
15	GA4656201	Lower rose end mounting assembly LH	1
16	GA5001029	M16 Nyloc nut	6
17	GA5017659	Washer 1" Flat HD ZP	8
18	GA5001009	Flat washer M16 HD	20
19	GA5000961	Washer 16mm Spring ZP	8
20	GA5000905	M16x25 SHCS	8
21	GA5006151	1" x 8" UNF Bolt	4
22	GA5012445	Nut nyloc 1" UNF	4
23	GA5000587	M12 WASHER	16
24	GA5000575	M12 Spring washer SS	16
25	GA5000297	SHCS M12 x 25 ZP	8
26	GA5075125	M16x330 bolt	2
27	GA5000117	Washer 10mm SS Heavy duty	4
28	GA5006113	Bolt M10x20 ZP 8.8	4
29	GA5001223	19mm E type circlip	2
30	GA5001883	E-clip 24mm	4
31	GA5012203	Grease Nipple 1/4" UNF Short	4
32	GA5003783	50x50mm 0.8-2.5 Insert Cap	2
33	GA4656250	Boom cable tension adjust 24+ RH	1
34	GA4656255	Boom cable tension adjust 24+ LH	1
35	L006A	Boom cable bolt	2
36	GA5020320	Cable Adjuster 20mm Threaded	2
37	GA5001739	M20 Heavy Duty Flat Washer	4
38	GA5048125	M20 Nyloc nut	2
39	GA5001709	Nut M20 Coarse Zinc	2
40	GA5000939	M16x60 bolt	4
41	GA5000311	M12x35mm Set Screw	8
42	GA5009639	Grease nipple long 1/4" UNF	2

SHIMS AVAILABLE	
Fold Ram Mount Shims	
GA4513041	Fold ram mount plate shim (large)
Boom Pivot Shims	
GA4535360	Boom rose joint shim (5mm)
GA4535355	Boom rose joint shim (3mm)
GA4535285	Boom Lower Rose End Shim 1mm

Boom Valve Assembly

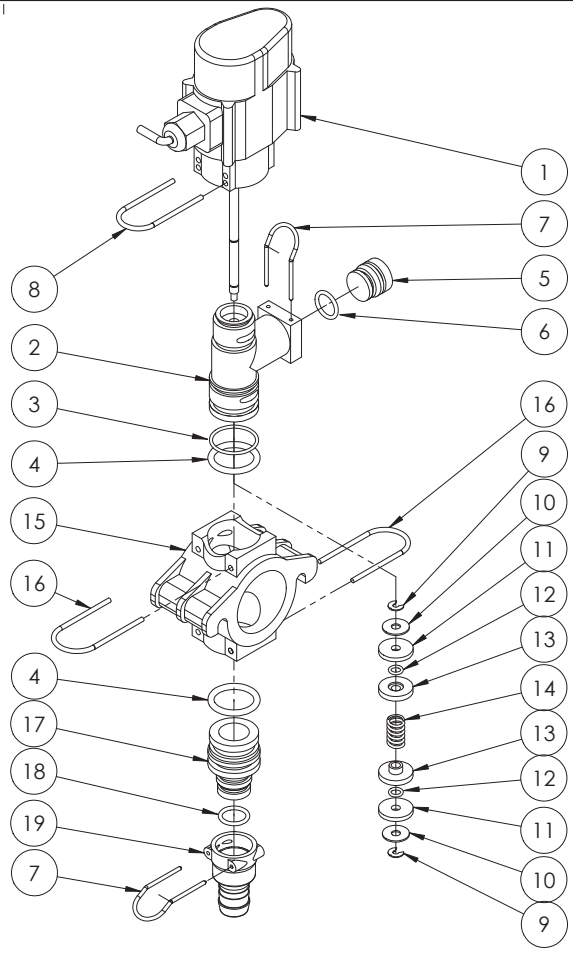


ITEM NO	PART NUMBER	DESCRIPTION	QTY.
1	GA5065515	Altek single boom valve AS24,3wire, AMP+	3
2	GA5065810	Boom Valve end cap	2
3	GA5065800	Boom valve bracket	2
4	GA5065680	Blind cap Plug AS40	1
5	GA5065620	Plug in hose tail AS40/33/90 degree	1
6	GA5065805	Connecting rod - suit 3 bank (SS)	2
7	GA5004883	Washer 8mm HD	12
8	GA5011499	GA5052360 M8 weld Nut	8
9	GA5004711	M8x25 bolt	4
10	GA5004917	M8 Nyloc Nut	4

GA5065805	3 Section connecting rod
GA4562055	4 Section connecting rod
GA4562125	5 Section connecting rod
GA4562050	6 Section connecting rod
GA4562045	7 Section connecting rod
GA4562040	8 Section connecting rod

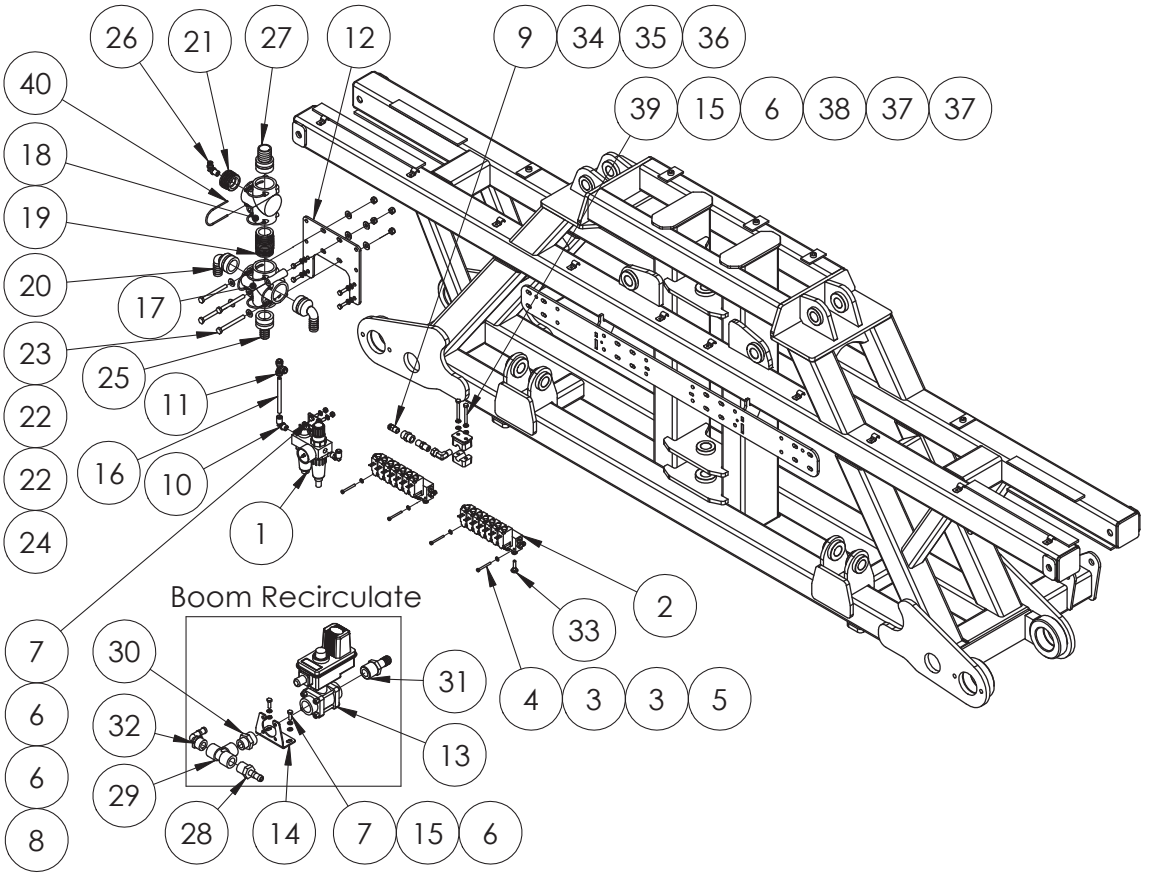
GA5065740	3 Section Boom Valves
GA5065741	4 Section Boom Valves
GA5065704	5 Section Boom Valves
GA5065705	6 Section Boom Valves
GA5065706	7 Section Boom Valves
GA5065710	8 Section Boom Valves

Boom Valves



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	80364	Valve body	1
2	GA5065515-Tee body	Tee body	1
3	80404	O-ring 30 x 2 fmp 75	1
4	02633	O-ring 30 x 4 fmp 75	2
5	80376	Plug 1	
6	37621	O-ring 18 x 2.5 fmp 75	1
7	GA5065695	AS24 Safety Pin	2
8	SAFETY PIN AS27	Safety pin AS27	1
9	80014	C-clip	2
10	80323	Washer	2
11	80004	Disk seal fpm 90	2
12	80414	O-ring 8 x 2 fmp 75	2
13	80005	Disk spring locator	2
14	80322	Spring 25mm	1
15	47800	Manifold	1
16	SAFETY PIN AS30	Safety pin AS30	2
17	GA5065835	Plug in hose tail AS30/AS24	1
18	37628	O-ring 18 x 2.5 fmp 75	1
19	GA5065640	Female Hose AS24/20	1

Rapid Fire Valves



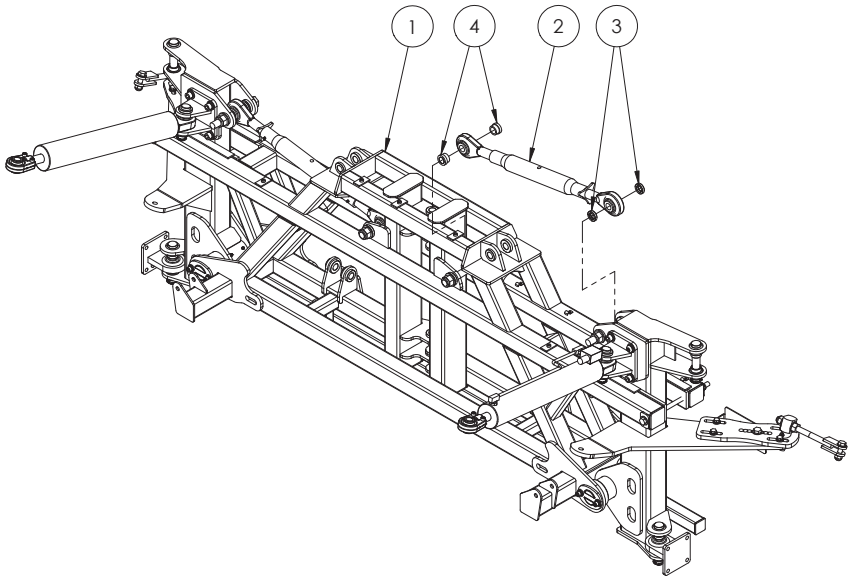
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5068806	Pneumatic Mini Filter Oiler and Regulator	1
2	GA5068805	Pneumatic solenoid 7 section, 6mm outlets	2
3	GA5020510	M4 Washer Heavy duty SS	8
4	GA5049800	M4 x 40 SHCS	4
5	GA5049025	Nut M4 Nyloc SS	4
6	GA5004437	M6 SS Washer	12
7	GA5004053	M6x20 bolt	8
8	GA5048115	Nut nyloc M6	2
9	GA5052695	Straight adapter push in 8x1/4 BSP	1
10	GA5052690	Elbow Swivel push in 8 x1/4 BSP	2
11	GA5067010	Equal Tee push in 8mm	1
12	GA4522640	Rear altek fitting mount	1
13	B344BEC-24-C	Electric shutoff valve 2 way 1" BSP	1
14	GA4524115	Boom recirculate mount bracket	1
15	GA5004447	M6 Spring washer SS	8
16	GA5004382	8mm hydrostatic Hose black	1
17	GA5065565	Cross piece 4xAS40	1
18	GA5065560	T-piece 3xAS40 M8 inserts	1

Continued over page

Rapid Fire Valves

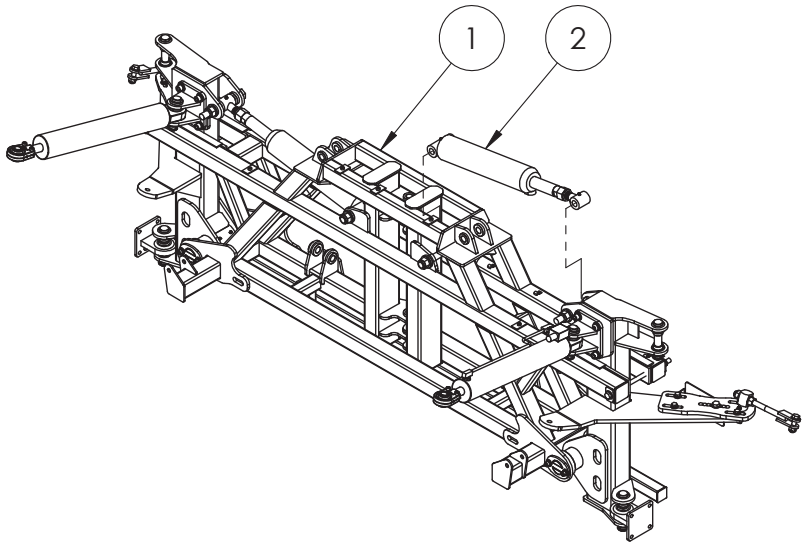
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
19	GA5065735	Plug in hose tail AS40/AS40	1
20	GA5065610	Plug in hose tail AS40/20/90 degree	2
21	GA4582160	Dummy plug AS40 G1/4 female	1
22	GA5004883	Washer 8mm HD	8
23	GA5004749	M8x80 Bolt	4
24	GA5004917	M8 Nyloc Nut	4
25	GA5065575	Plug in hose tail AS40/20	1
26	GA5016235	Swivel Elbow push in Brass10x1/4 BSP	1
27	GA5065585	Plug in hose tail AS40/33	1
28	HB075-050	Straight Hose Barb 3/4 x 1/2	1
29	TEE050	Tee female 1/2"	1
30	RN100075	Reducing nipple 1" to 3/4"	1
31	HB075	1" male thread x 3/4" barb	1
32	HB075/050-90	Elbow male 3/4" thread 1/2" barb	1
33	GA5004405	Plug push in 6mm	1
34	S26-0404	1/4" BSPP Socket	1
35	S27-0404	1/4" x 1/4" Steel Nipple	1
36	S82-0404	1/2" Hydraulic Tee	1
37	RCS-14J	Single Clamp Jaws PP Gr3 14mm	2
38	RCS-2PT	Single Clamp Top Plate grp 2	1
39	GA5011419	M6x50 bolt SS	2
40	GA5065690	Safety pin AS40	7

Centre With Tilt Replacement Links



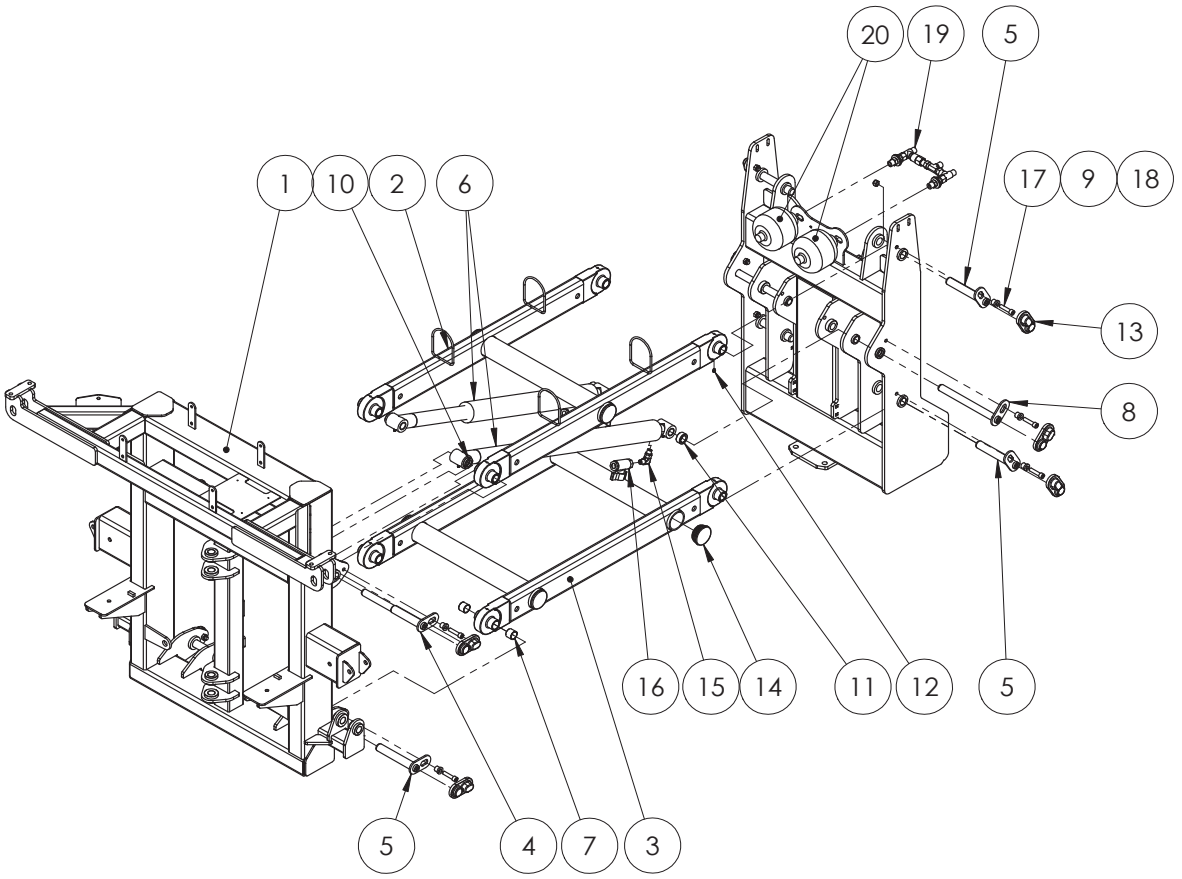
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4922195	Boom centre 2011 Base assembly	1
2	GA5075135	Tilt cylinder replacement adjustable top link	2
3	GA4572135	Paralift spacer bush	4
4	DB-ADJ-02MACH	Short centre bushing for removable pivots	4

Centre With Tilt Cylinders



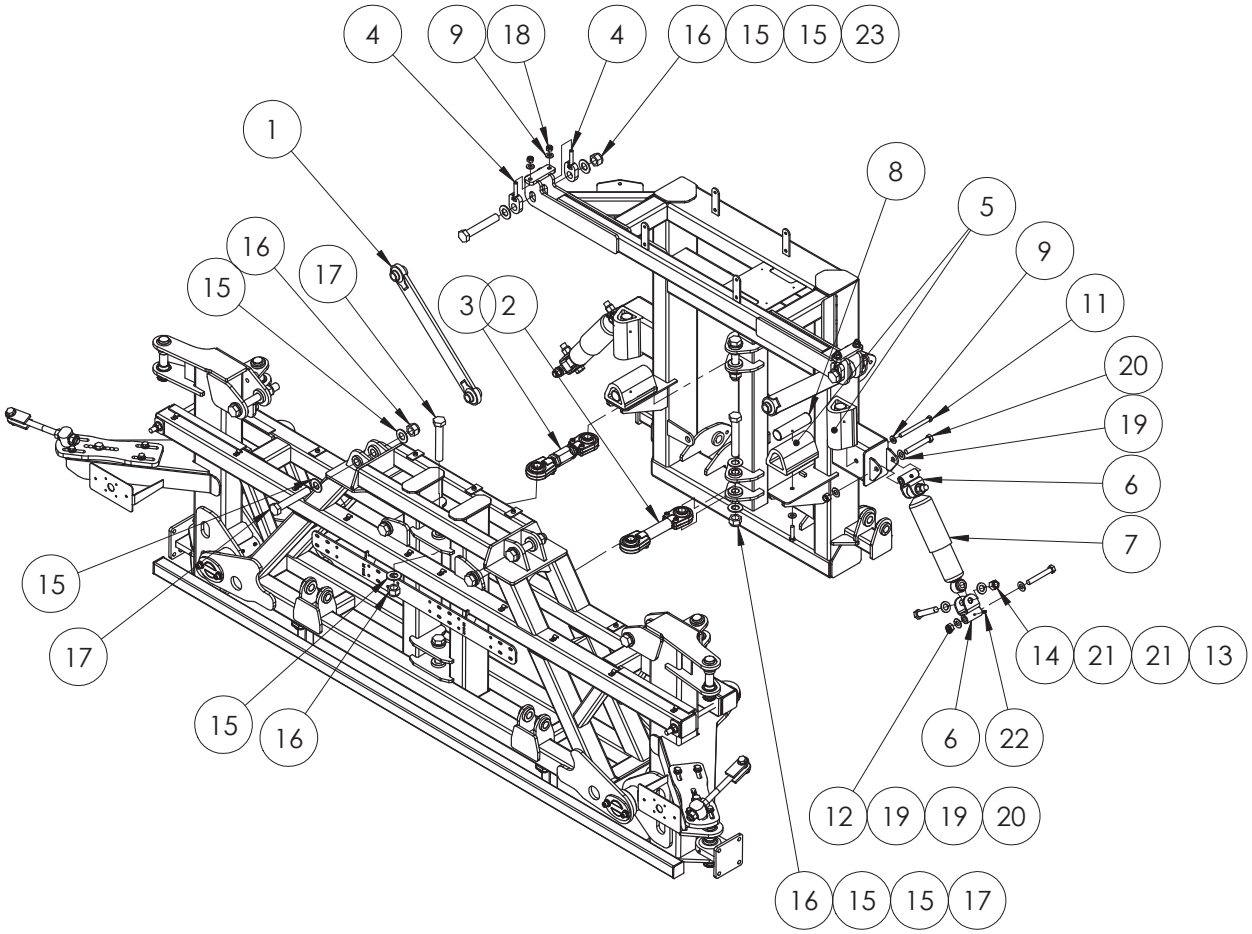
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4922195	Boom centre 2011 Base assembly	1
2	GA5065051	Hydraulic cylinder 3.5"x5" stroke	2

Paralift & Paralift Arms



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658135	Paralift rear	1
2	GA4654107	Top Paralift Arm suit 2011	1
3	GA4654102	Bottom Paralift Arm 2011	1
4	GA5066675	Pin paralift rear ram and arm	2
5	GA5066655	Pin paralift chassis arm	6
6	GA5070075	Hydraulic cylinder - 2.5" bore, 2"rod, 20" stroke	2
7	GA5065486	Glacier bush 1 1/8" x 1" long	16
8	GA5066645	Pin Paralift Chassis Ram	2
9	MACH0152	12mm Bolt Bush suit para lift pins	10
10	GA4572135	Paralift spacer bush	4
11	GA4562190	machined bush 40 OD 26ID 17.5 long (zinced)	2
12	GA5050450	Grease nipple 6mm	8
13	GA5067885	Pin cover - plastic	10
14	GA5050355	Insert to suit 65NB Tube	6
15	S89-0812	Elbow 1/4 BSPT x 9/16 UNO	2
16	GA5000835	Ball valve hydraulic 1/2" FF	2
17	GA5051470	M12x50 unbrako	10
18	GA5012461	M12 Nyloc nut Z/P	10
19	GA4903058	Hydraulic Accumulator Manifold	1
20	GA5007787	Accumulator 1.0L Precharge 70 Bar	2

Complete Centre & Paralift

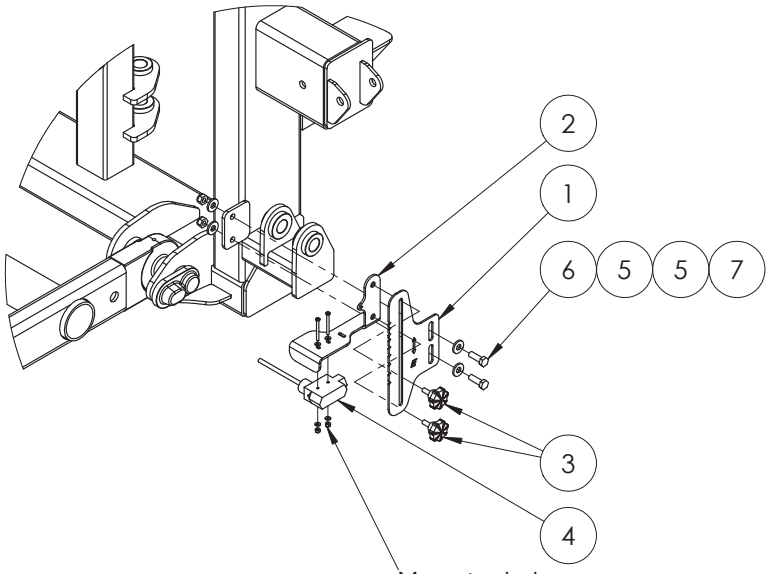


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656240	Long delta link	2
2	GA5067855	Short delta link	1
3	DELTA-LINKSA	Short Adjustable delta link	1
4	GA4656260	Boom Delta hanger adjuster bolt	4
5	GA5006537	Rubber Bump Stop	4
6	GA4658140	Shocker mount pivot suit 2011centre	4
7	GA5015139	High control shocker	2
8	GA4572315	Bump stop travel limiter suit Centre section	4
9	GA5000587	M12 WASHER	7
10	GA5011239	M12x50 bolt	1
11	GA5000271	M12x170 bolt	2
12	GA5001029	M16 Nyloc nut	4
13	GA5049490	Bolt 3/4 x 4 UNC HT ZP	4
14	GA5048430	3/4" UNC Nyloc Nut	4
15	GA5017659	Washer 1" Flat HD ZP	15
16	GA5012445	Nut nyloc 1" UNF	8

Continued over page

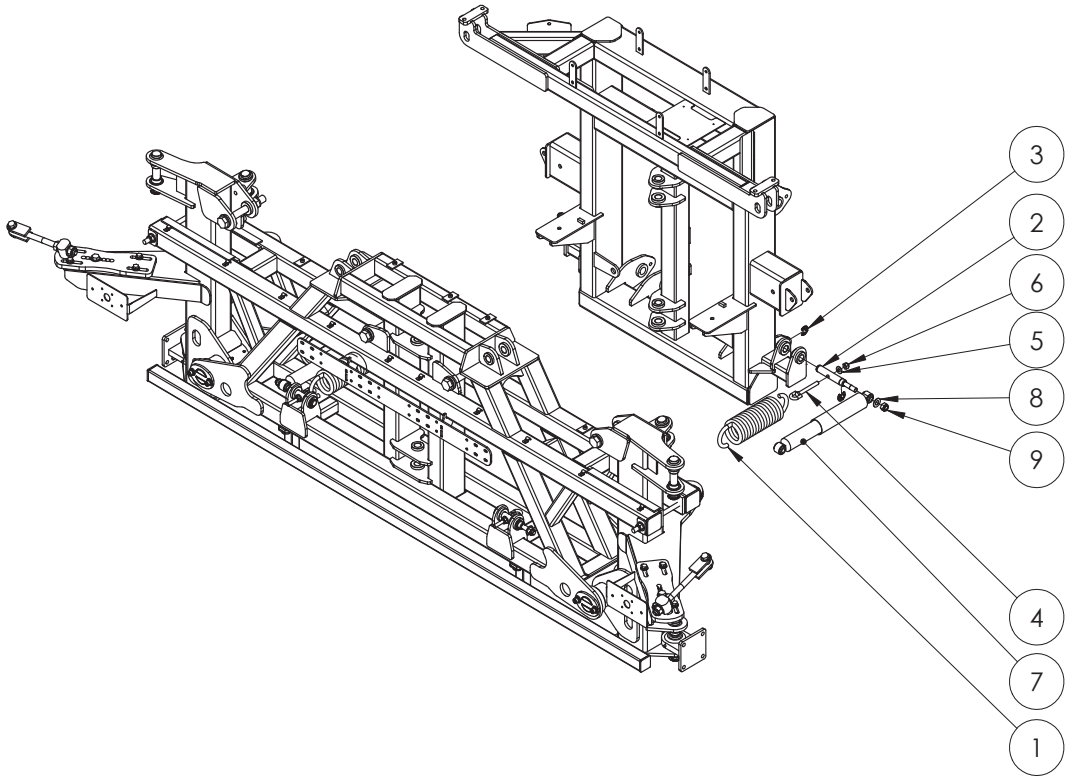
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA5006043	Bolt 1" x 6" UNF	6
18	GA5012461	M12 Nyloc nut Z/P	4
19	GA5001009	Flat washer M16 HD	8
20	GA5011199	Bolt M16 x 110 ZP GR8.8	4
21	GA5001739	M20 Heavy Duty Flat Washer	8
22	GA5012203	Grease Nipple 1/4" UNF Short	4
23	GA4683145	1" x 6" UNC Bolt cut from 7"	2

Lower Limit Switch



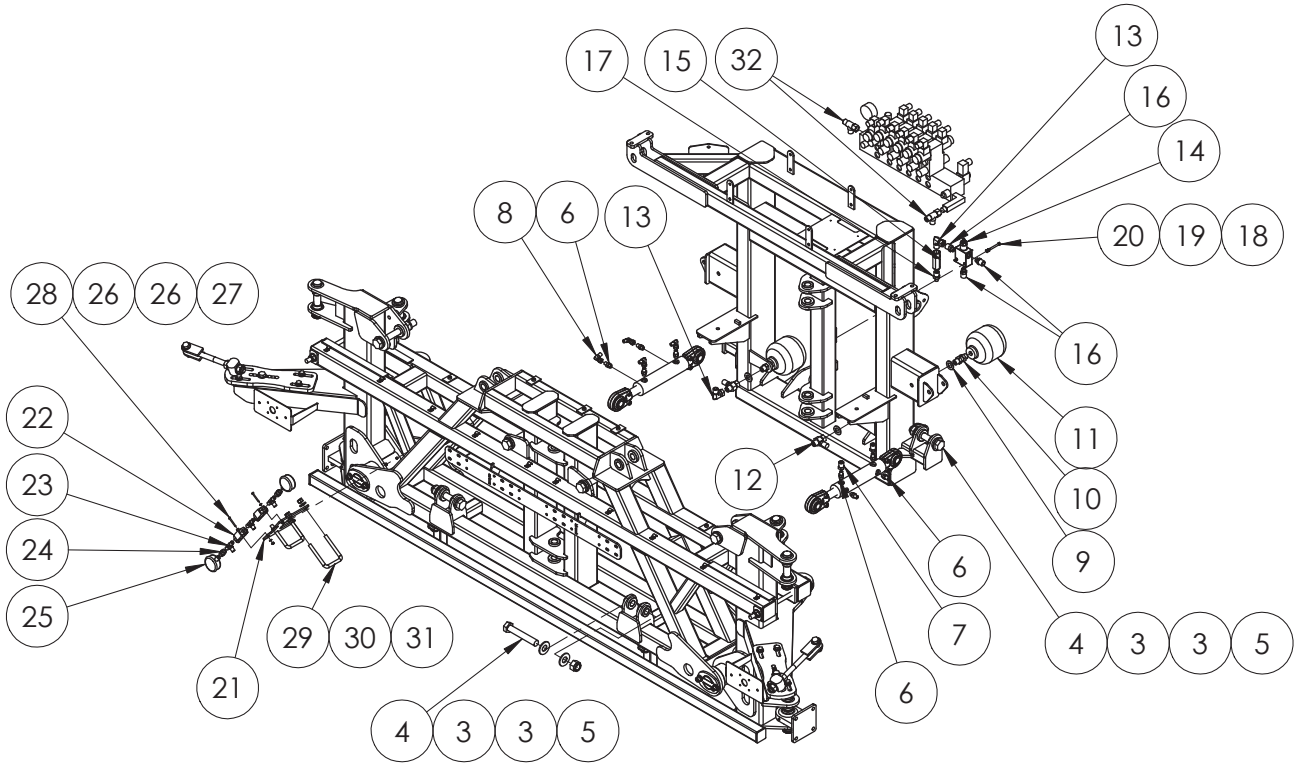
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523965	EF Evo 2011 Boom Height adjustment bracket	1
2	GA4654161	Paralift switch bracket	1
3	GA5067080	M8 x 20mm Plastic Knob Bolt	2
4	GA5012129	Narva Boom Height Limit Switch	1
5	GA5000117	Washer 10mm SS Heavy duty	4
6	GA5065455	Bolt Gr8.8 M10x30	2
7	GA5000141	M10 Nyloc Nut	2

Spring Yaw Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075095	Heavy spring suit 2011 center	2
2	GA4572385	Shocker and spring mount pin	4
3	GA5001223	19mm E type circlip	8
4	GA5075150	Eye Bolt 12mm x 100mm Short	4
5	GA5000587	M12 WASHER	4
6	GA5012461	M12 Nyloc nut Z/P	4
7	GA5075115	HD Shock absorber suit 2011center	2
8	GA5001009	Flat washer M16 HD	4
9	GA5001029	M16 Nyloc nut	4

Hydraulic Yaw Kit - Suit Spool Valves



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060817	Hydraulic yaw cylinder with ball ends	1
2	GA5060817	Hydraulic yaw cylinder with ball ends	1
3	GA5017659	1" HD Washer ZP	8
4	GA5006043	Bolt 1" x 6" UNF	4
5	GA5012445	Nut nyloc 1" UNF	4
6	S93-0409	Nipple 1/4" BSPP x 9/16 UNO-ring	8
7	S24-0804	Reducing bush 1/2 BSPT x 1/4 BSPT	2
8	S82-0404	1/2" Hydraulic Tee	4
9	GA5001739	M20 Heavy Duty Flat Washer	4
10	S44-0808	Bulkhead nipple 1/2" BSPP with nut	2
11	GA5007787	Accumulator 1.0L Precharge 70 Bar	2
12	S160-080816	Inline test point 1/2" BSP	2
13	S82-0808	1/2" Hydraulic Tee - S83-080808	2
14	GA5047708	Pressure Reducing Valve	1
15	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
16	S75-0806	0806 nipple BSPTM BSPPOM	3
17	S27-0804	1/2" BSPT - 1/4" BSPT Straight Hydraulic Nipple	1

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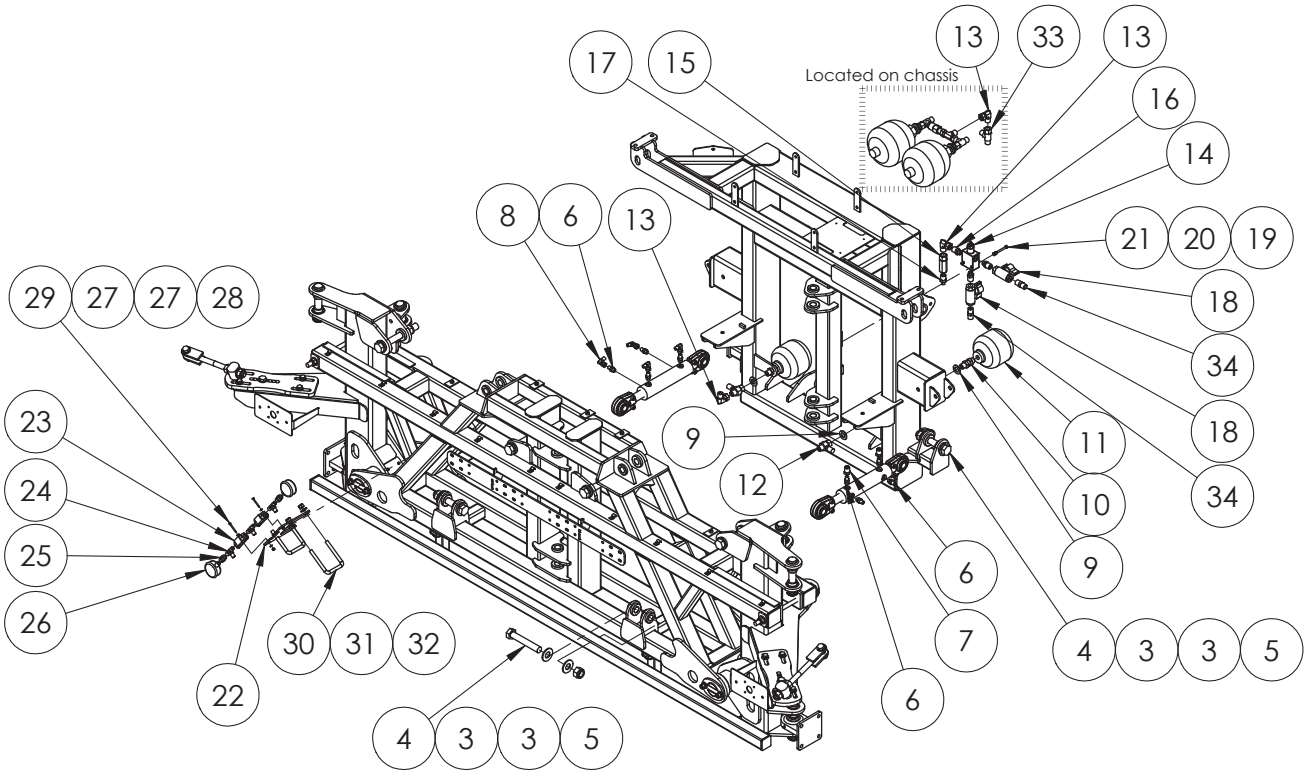
Hydraulic Yaw Kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA5004437	M6 SS Washer	2
19	GA5004447	M6 Spring washer SS	2
20	GA5011419	M6x50 bolt SS	2
21	GA4523970	Tap Mounting Plate Hydraulic Yaw 2010 bolt on	1
22	RL20-0404	Ball valve 1/4" BSP	2
23	S50-040404	Tee 1/4" BSPT	3
24	S26-0404	1/4" BSPP Socket	2
25	RG01-250	pressure guage 250 BAR	2
26	GA5020510	M4 Washer Heavy duty SS	4
27	GA5049025	Nut M4 Nyloc SS	2
28	GA5049800	M4 x 40 SHCS	2
29	GA5011259	M12 x 76mm x 110mm Square Top U Bolt	2
30	GA5000587	M12 WASHER	4
31	GA5012461	M12 Nyloc nut Z/P	4
32	S167-080808	TEE 1/2 BSPT M x M F	2

Hydraulic Yaw Kit - Non Spool Valves

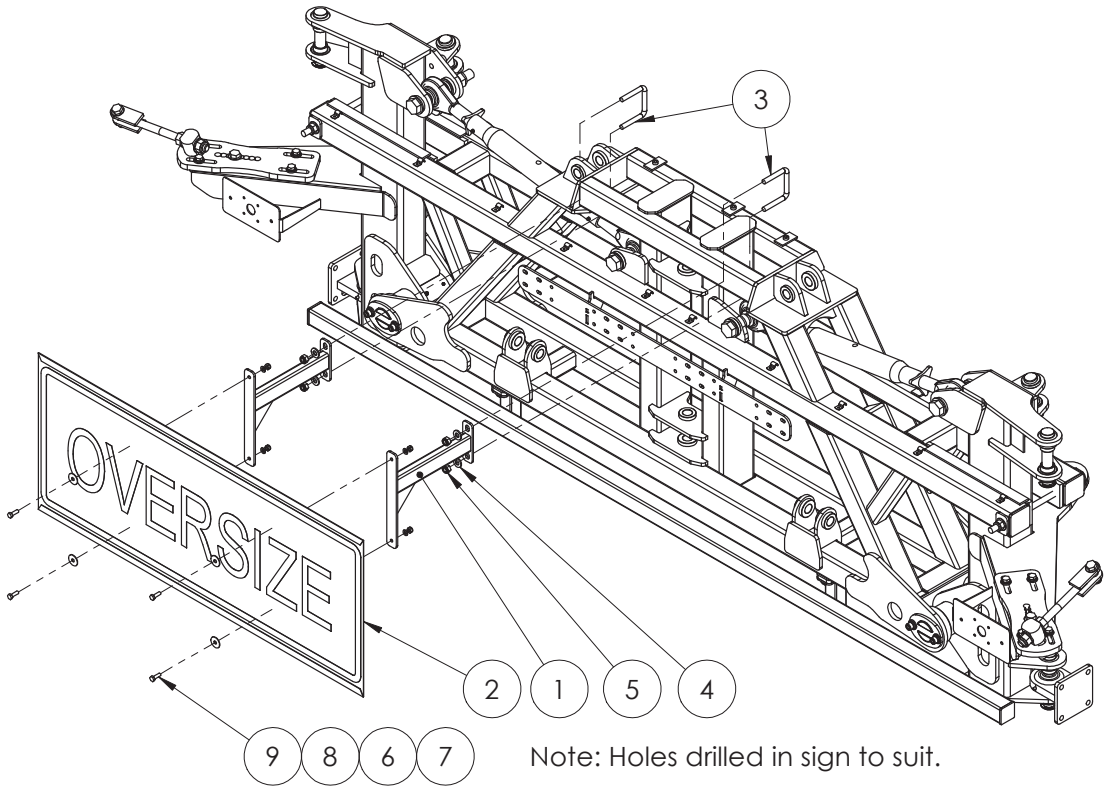


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060817	Hydraulic yaw cylinder with ball ends	1
2	GA5060817	Hydraulic yaw cylinder with ball ends	1
3	GA5017659	1" HD Washer ZP	8
4	GA5006043	Bolt 1" x 6" UNF	4
5	GA5012445	Nut nyloc 1" UNF	4
6	S93-0409	Nipple 1/4" BSPP x 9/16 UNO-ring	8
7	S24-0804	Reducing bush 1/2 BSPT x 1/4 BSPT	2
8	S82-0404	1/2" Hydraulic Tee	4
9	GA5001739	M20 Heavy Duty Flat Washer	4
10	S44-0808	Bulkhead nipple 1/2" BSPP with nut	2
11	GA5007787	Accumulator 1.0L Precharge 70 Bar	2
12	S160-080816	Inline test point 1/2" BSP	2
13	S82-0808	1/2" Hydraulic Tee - S83-080808	3
14	GA5047708	Pressure Reducing Valve	1
15	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
16	S75-0806	0806 nipple BSPTM BSPPOM	3
17	S27-0804	1/2" BSPT - 1/4" BSPT Straight Hydraulic Nipple	1
18	GA5000835	Ball valve hydraulic 1/2" FF	2
19	GA5004437	M6 SS Washer	2

Continued over page

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
20	GA5004447	M6 Spring washer SS	2
21	GA5011419	M6x50 bolt SS	2
22	GA4523970	Tap Mounting Plate Hydraulic Yaw 2010 bolt on	1
23	RL20-0404	Ball valve 1/4" BSP	2
24	S50-040404	Tee 1/4" BSPT	3
25	S26-0404	1/4" BSPP Socket	2
26	RG01-250	Pressure gauge 250 BAR	2
27	GA5020510	M4 Washer Heavy duty SS	4
28	GA5049025	Nut M4 Nyloc SS	2
29	GA5049800	M4 x 40 SHCS	2
30	GA5011259	M12 x 76mm x 110mm Square Top U Bolt	2
31	GA5000587	M12 WASHER	4
32	GA5012461	M12 Nyloc nut Z/P	4
33	S167-080808	TEE 1/2 BSPT M x M F	1
34	S27-0808	0808 BSPTM BSPMT nipple	2

Oversize Sign Mount

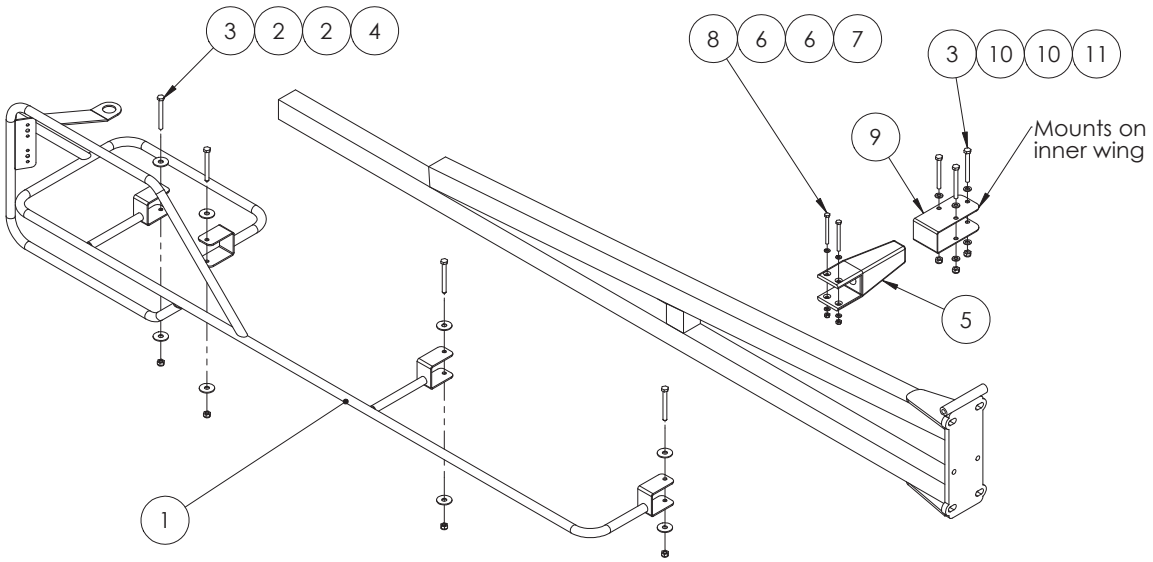


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658150	Oversize mount bracket suit 2011 centre	2
2	GA5009613	Oversize Sign	1
3	GA5075160	M12 x 76mm x 80mm Square Top U Bolt	2
4	GA5000587	M12 WASHER	4
5	GA5012461	M12 Nyloc nut Z/P	4
6	GA5004883	Washer 8mm HD	4
7	GA5052590	Nut M8 Nyloc S/S 316	4
8	GA5003645	5 -16 x 1 1-4 Flat washer SS	4
9	GA5004713	Bolt M8 x 25 SS A2-70	4

Chapter 14

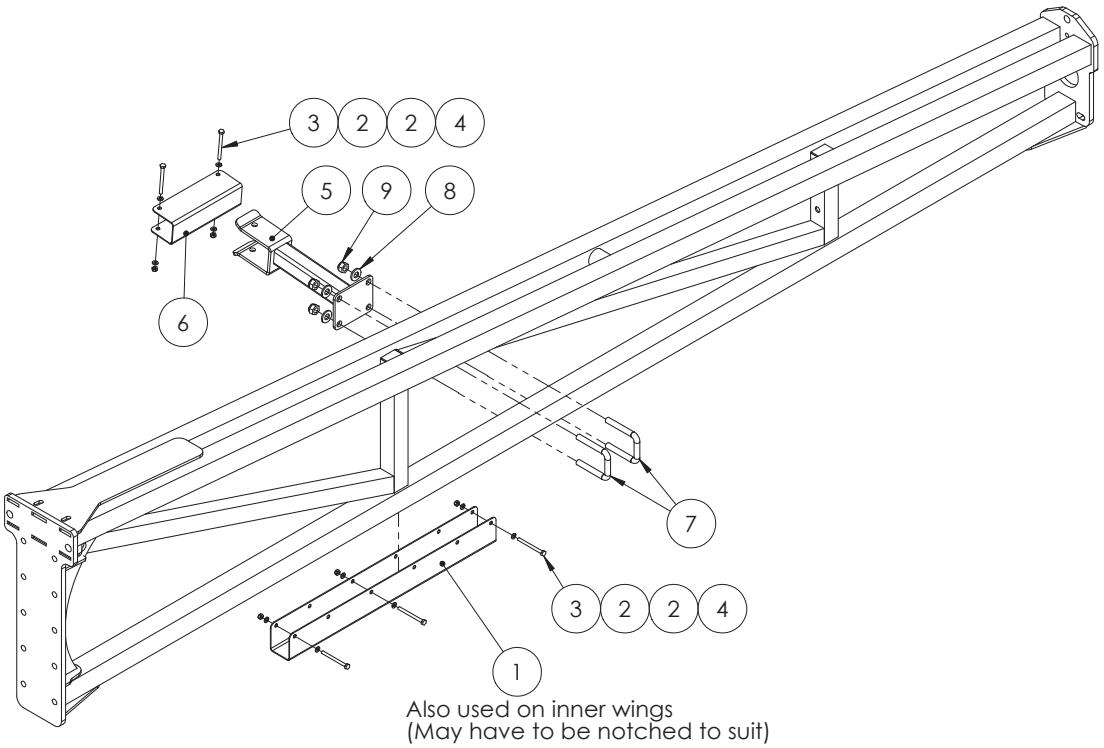
BOOM WING

Fence Line End Protector



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656314	Boom End Protector (RH)	1
1		Boom End Protector (LH)	1
2	GA5002595	Washer	8
3	GA5052600	M8x75 Bolt SS	7
4	GA5004917	M8 Nyloc Nut	4
5	GA5006225	Boom stopper rubber (black)	1
6	GA5004437	M6 SS Washer	4
7	GA5048115	Nut nyloc M6	2
8	GA5004103	M6 x 70mm bolt	2
9	GA4522995	Rubber bump stop extension bracket	1
10	GA5004883	Washer 8mm HD	6
11	GA5052590	Nut M8 Nyloc S/S 316	3

Boom Protector Assembly

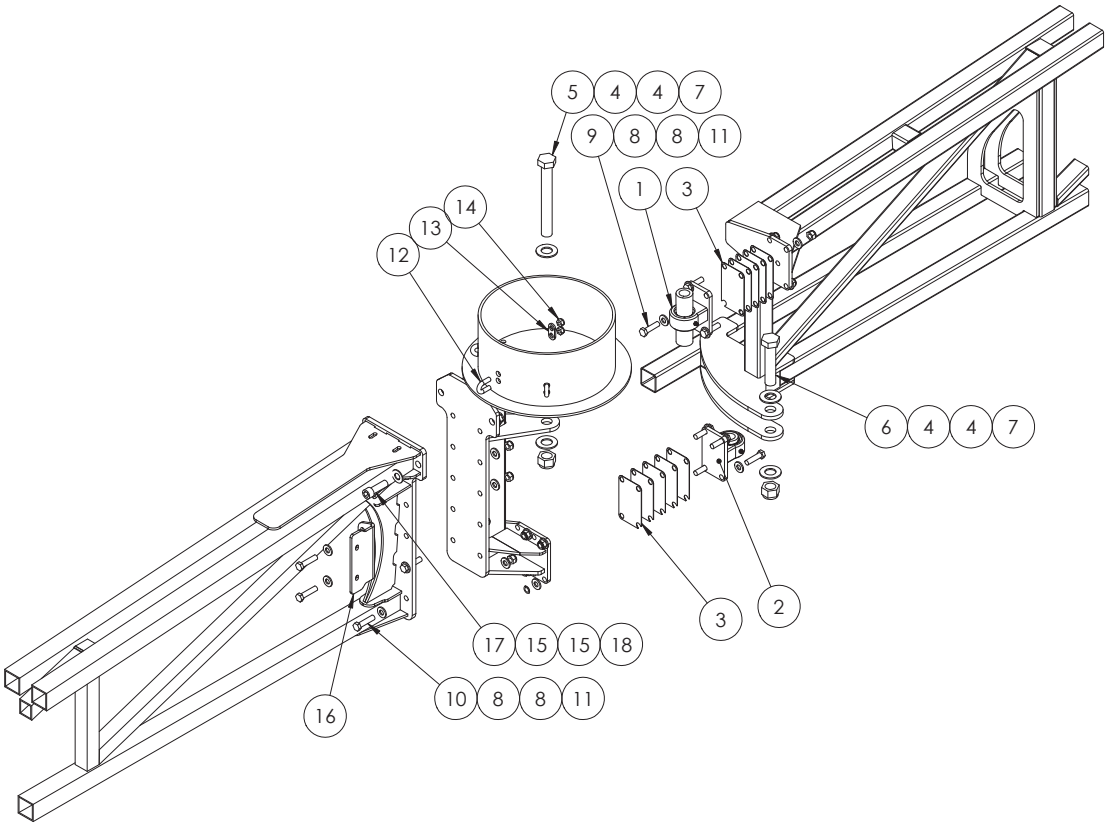


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70799A	Al Outer Wing Protector suit 50 x 50 600mm long (2mm S/S)	1
2	GA5004437	M6 SS Washer	10
3	GA5004103	M6 x 70mm bolt	5
4	GA5048115	Nut nyloc M6	5
5	GA4656277	Boom Fold TriTech Long Support Bracket	1
6	F70294A	Boom wing protector Suit 50 x 50 200mm long	1
7	GA5011251	M12 x 52mm x 80mm Square Top U Bolt	2
8	GA5000587	M12 WASHER	4
9	GA5012461	M12 Nyloc nut Z/P	4

Cable Drum

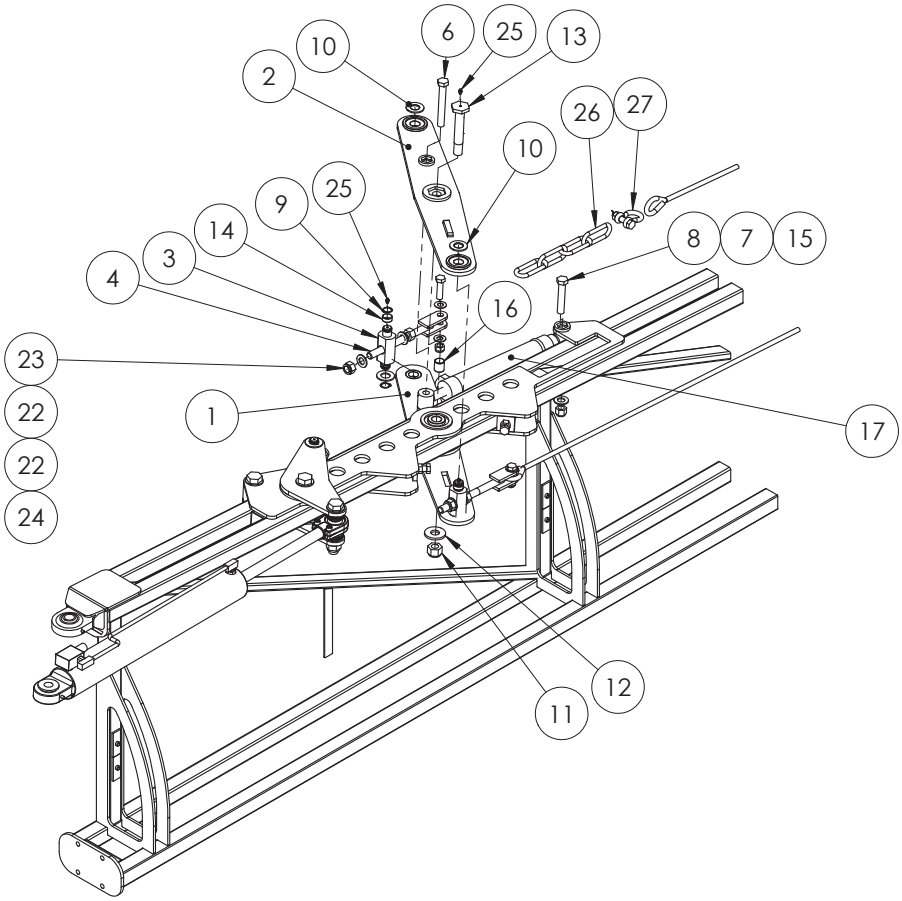
Part No	Description	Qty
GA4656180	Right Cable Drum	1
GA4656185	Left Cable Drum	1
GA4656210	Bi-Fold Right Cable Drum	1
GA4656215	Bi-Fold Left Cable Drum	1
GA4656181	Right Offset Cable Drum	1
GA4656186	Left Offset Cable Drum	1
GA4656211	Bi-Fold Right Offset Drum	1
GA4656216	Bi-Fold Left Offset Drum	1

Cable Drum



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4932342	Upper bearing pivot kit suit Tritech drum hinge	1
2	GA4912030	Lower removable pivot assembly	1
3	DB-ADJ-16LAS	Shim plate for removable pivot assembly	10
4	GA5017659	Washer 1" Flat HD ZP	4
5	GA5006151	Bolt 1" x 8" ZP 8.8	1
6	GA5006039	1" x 4.5" UNF Bolt	1
7	GA5012445	Nut nyloc 1" UNF	2
8	GA5000587	M12 WASHER	36
9	GA5000327	Set Screw M12 x 45 ZP GR8.8	8
10	GA5011239	M12x50 bolt	10
11	GA5012461	M12 Nyloc nut Z/P	18
12	GA5018247	U Bolt M10 x 30 x 14mm top	3
13	F70266A	Cable u-bolt clamp	3
14	GA5000141	M10 Nyloc Nut	6
15	GA5001009	Flat washer M16 HD	4
16	GA4522725	Boom hose holder plate outer	1
17	GA5000935	M16x50 unbrako	2
18	GA5001029	M16 Nyloc nut	2

Bi-Fold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656295	Boom Bi-fold Bottom Bracket	1
2	GA4656290	Boom Bi-fold Top Bracket	1
3	24mk4DB006MACH	Fold ram adjuster nut mounting	2
4	GA5020320	Cable Adjuster 20mm Threaded	2
5	GA5000931	M16x50 bolt	2
6	GA5002487	3/4" x 5 1/2" Bolt	1
7	GA5002539	3/4 Z/P Comm Flat Washers	2
8	GA5049490	3/4" UNF x4" Bolt	1
9	GA5008519	Circlip external 25mm	4
10	GA5017659	Washer 1" Flat HD ZP	4
11	GA5012469	Nut M24 Nyloc ZP	1
12	2SF-003LAS	2nd Stage Fold - Pivot Washer	1
13	2SF-007MACH	2nd Stage Fold - Pivot Pin	1
14	GA5009463	Glacier Bush 25 IDx15 long	4
15	GA5048430	3/4" UNF Nyloc nut	2
16	GA5009467	Glacier Bush 25 IDx30 long	2
17	GA5021010	Hypower ram suit Bi fold 254mm stroke	1
18	GA5012385	Nut ZP M16	2

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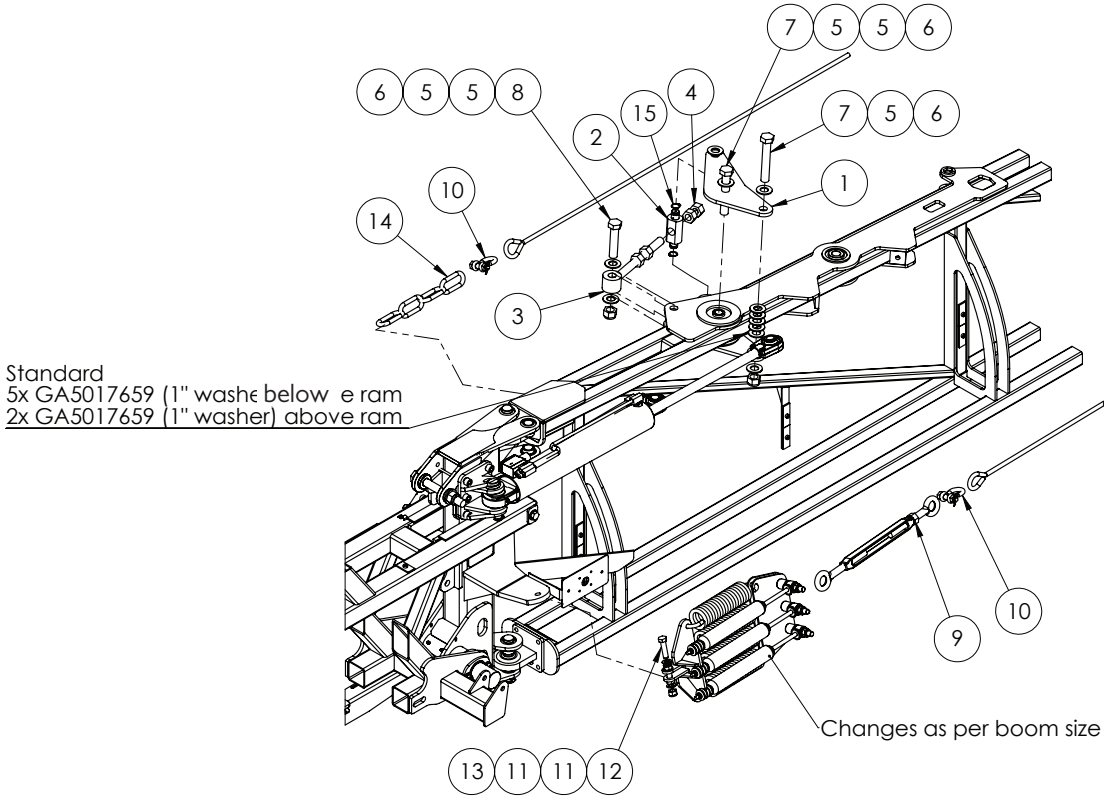
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
19	GA5001009	Flat washer M16 HD	4
20	GA5000939	M16x60 bolt	2
21	GA5001029	M16 Nyloc nut	2
22	GA5001739	M20 Heavy Duty Flat Washer	4
23	GA5048125	M20 Nyloc nut	2
24	GA5001709	Nut M20 Coarse Zinc	2
25	GA5012203	Grease Nipple 1/4" UNF Short	7
26	GA5065020	Chain link 11mm	4
27	GA5000669	13mm Bow Shackle	1

Boom Fold Adjuster



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	24MK4DB005	Adjuster plate, Fold ram, Tritech and Delta boom	2
2	24MK4DB006	Bush / pin, Fold ram adjuster nut and bolt retainer	1
3	FAB0201	Fold ram adjusting bolt	1
4	GA5010991	Nut 1" x 12 TPI ZP UNF	4
5	GA5017659	Washer 1" Flat HD ZP	15
6	GA5012445	Nut nyloc 1" UNF	3
7	GA5006043	Bolt 1" x 6" UNF	2
8	GA5006039	1" x 4.5" UNF Bolt	1

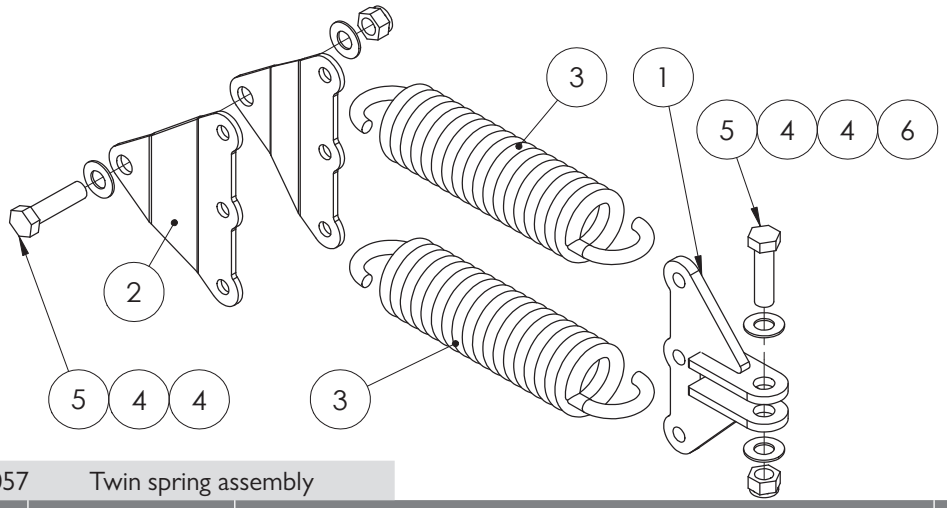
Continued over page

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA5017061	Turnbuckle hook & eye M8 SS	1
10	GA5000669	13mm Bow Shackle	2
11	GA5001009	Flat washer M16 HD	2
12	GA5000941	Bolt M16 x 60 GR8.8 ZP	1
13	GA5001029	M16 Nyloc nut	1
14	GA5065020	Chain link 11mm	4
15	GA5008519	Circlip external 25mm	2

Boom Cables

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	GA5000073	Cable - Lengths: Tri Tech 24-30mt - 12450mm Tri Tech 24-30mt Bi Fold- 10420mm Tri Tech 36mt - 15370mm Tri Tech 36mt Bi Fold - 13360mm	2
	GA5000215	Cable End Eyelet	4
	GA5005391	Cable Ferrule	4

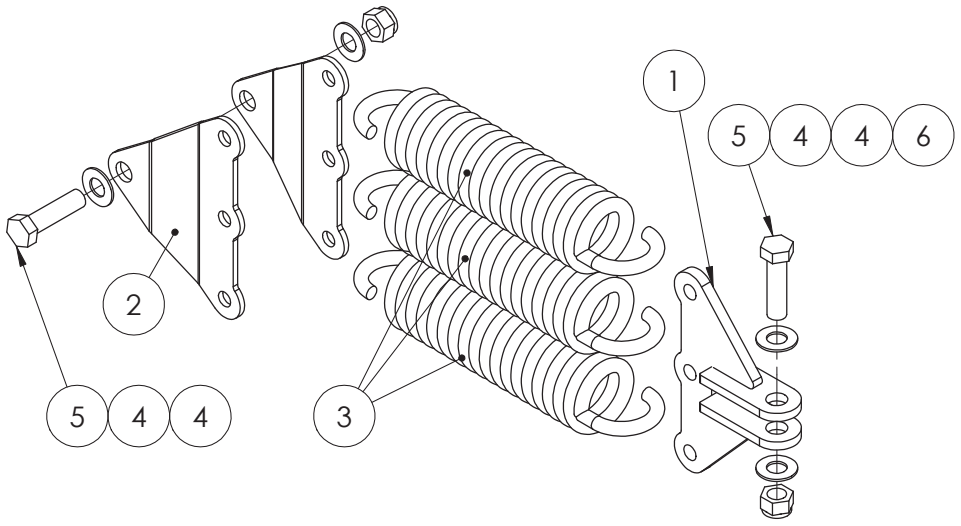
Boom Cable Spring - Suit 24m



GA4903057 Twin spring assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656230	Cable Spring Shocker Mount Sub assem	1
2	F70057A	Delta boom spring plate	2
3	GA5010793	Heavy Spring	2
4	GA5001009	Flat washer M16 HD	4
5	GA5000939	M16x60 bolt	2
6	GA5001029	M16 Nyloc nut	2

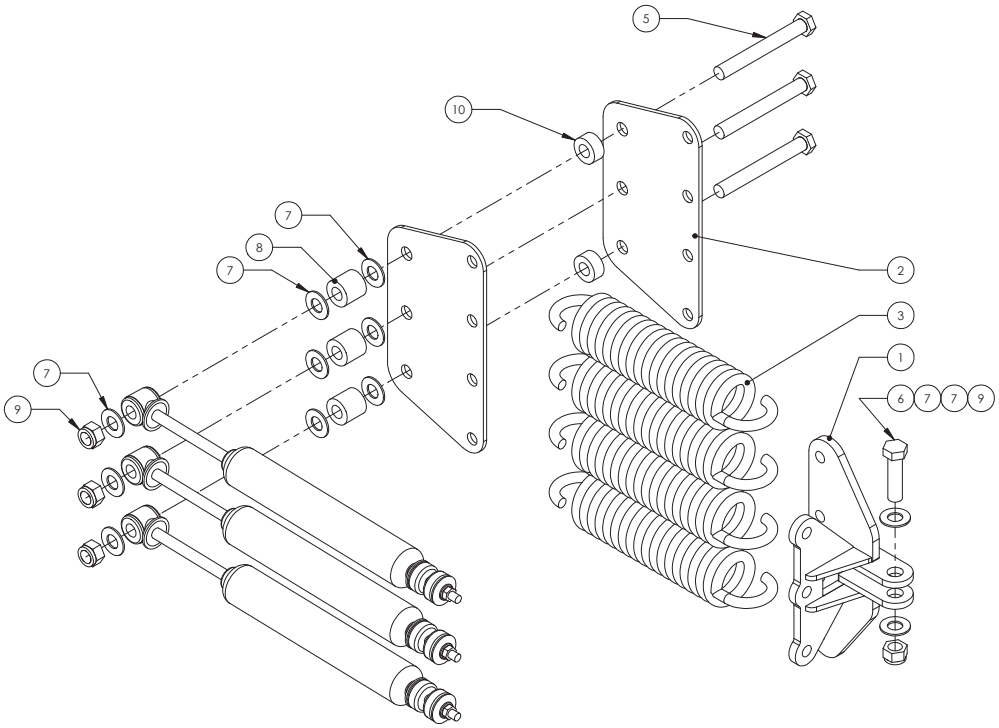
Boom Cable Spring - Suit 28-30m



GA4903067 Triple cable spring assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656230	Cable Spring Shocker Mount Sub assem	1
2	F70057A	Delta boom spring plate	2
3	GA5010793	Heavy Spring	3
4	GA5001009	Flat washer M16 HD	4
5	GA5000939	M16x60 bolt	2
6	GA5001029	M16 Nyloc nut	2

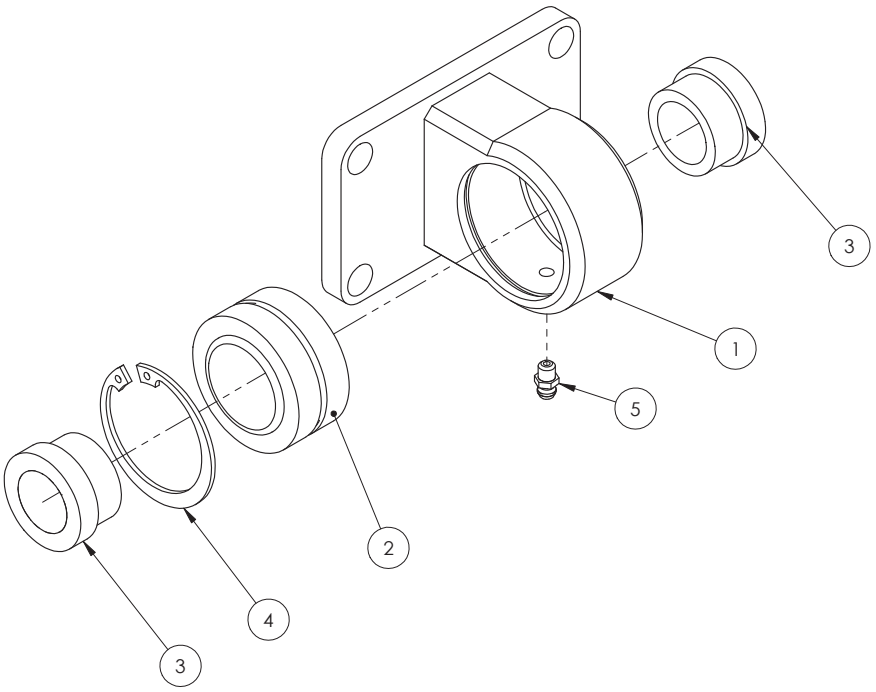
Boom Cable Springs - Suit 33&36m



GA4903071 33-36 cable damper assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656235	33-36m Cable Spring Shocker Mount Sub assem	1
2	F70411A	Cable Spring-Shocker Mount Component	2
3	GA5010793	Heavy Spring	4
4	GA5015899	Steering Damper SC2914	3
5	GA5000861	M16x130 bolt	3
6	GA5000939	M16x60 bolt	1
7	GA5001009	Flat washer M16 HD	11
8	GA4582335	Spacer Cable Shocker - long	3
9	GA5001029	M16 Nyloc nut	4
10	GA4582330	Spacer Cable Shocker - long	2

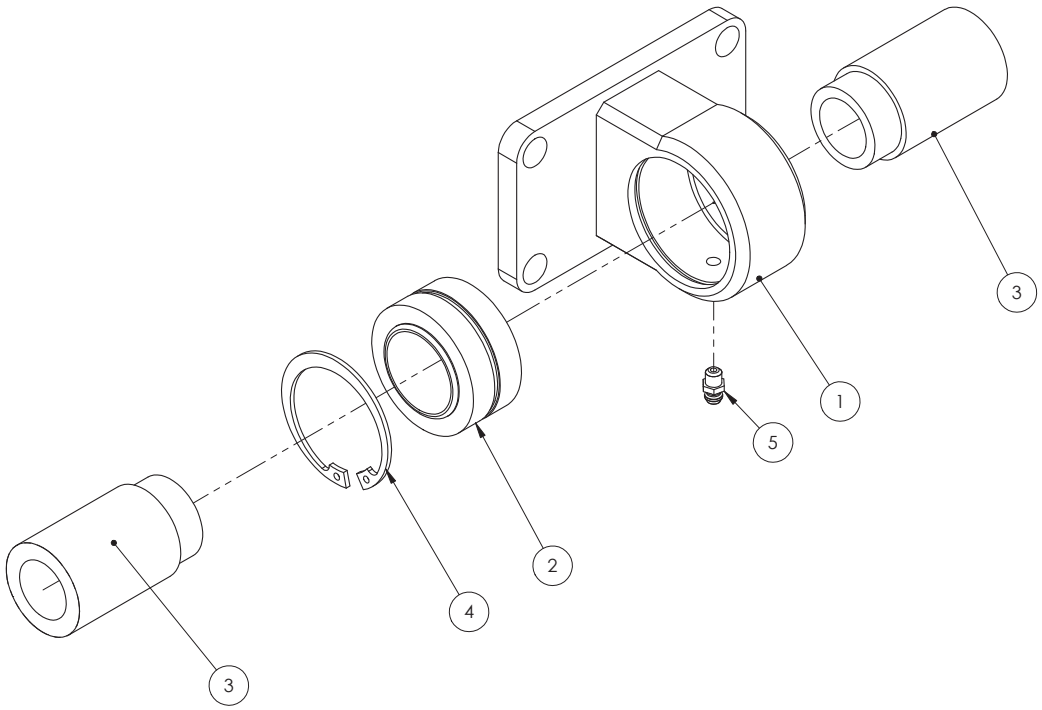
Lower Bearing Pivot



GA4932343 Lower pivot assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656190	Boom hinge bearing mnt 24+	1
2	GA5015659	Spherical bushing 1 3/8"	1
3	DB-ADJ-02MACH	Short centre bushing for removable pivots	2
4	GA5021085	55mm internal circlip	1
5	GA5012203	Grease Nipple 1/4" UNF Short	1

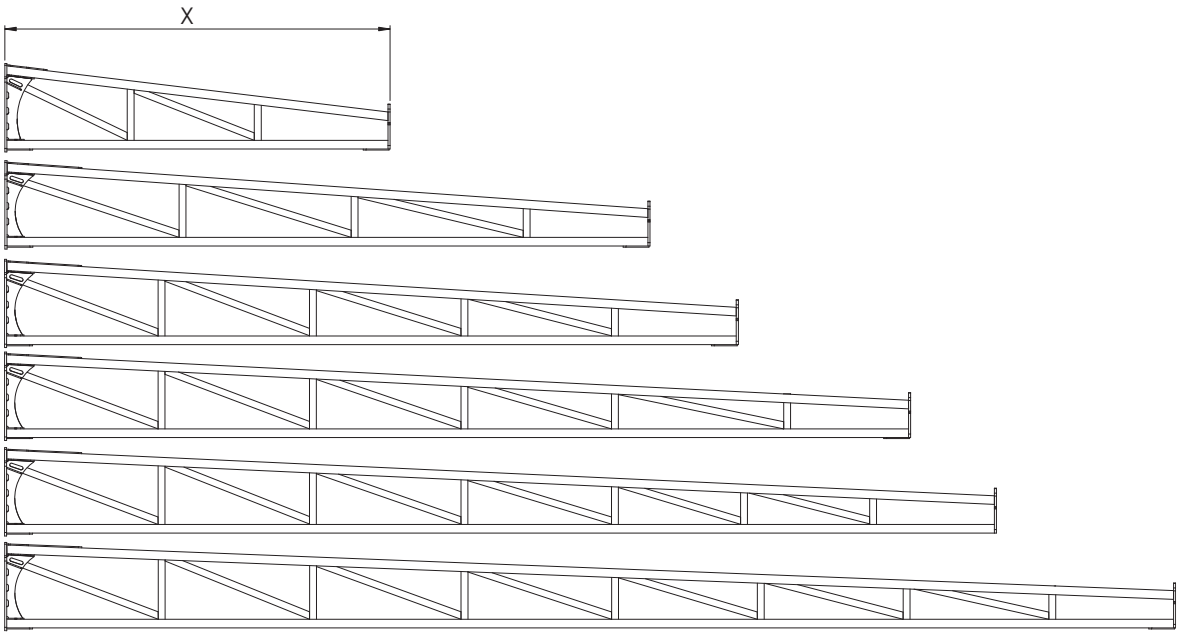
Upper Bearing Pivot



GA4932342 Upper pivot assembly

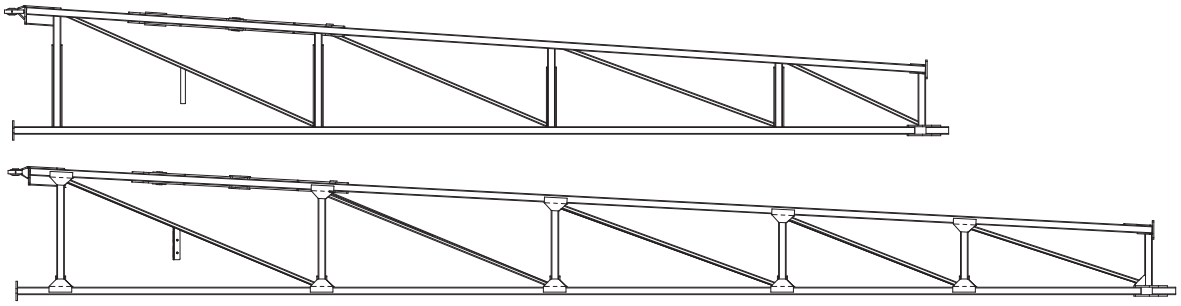
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656190	Boom hinge bearing mnt 24+	1
2	GA5015659	Spherical bushing 1 3/8"	1
3	DB-ADJ-13MACH	Long centre bushing for removable pivots	2
4	GA5021085	55mm internal circlip	1
5	GA5012203	Grease Nipple 1/4" UNF Short	1

Aluminium Outer Wings



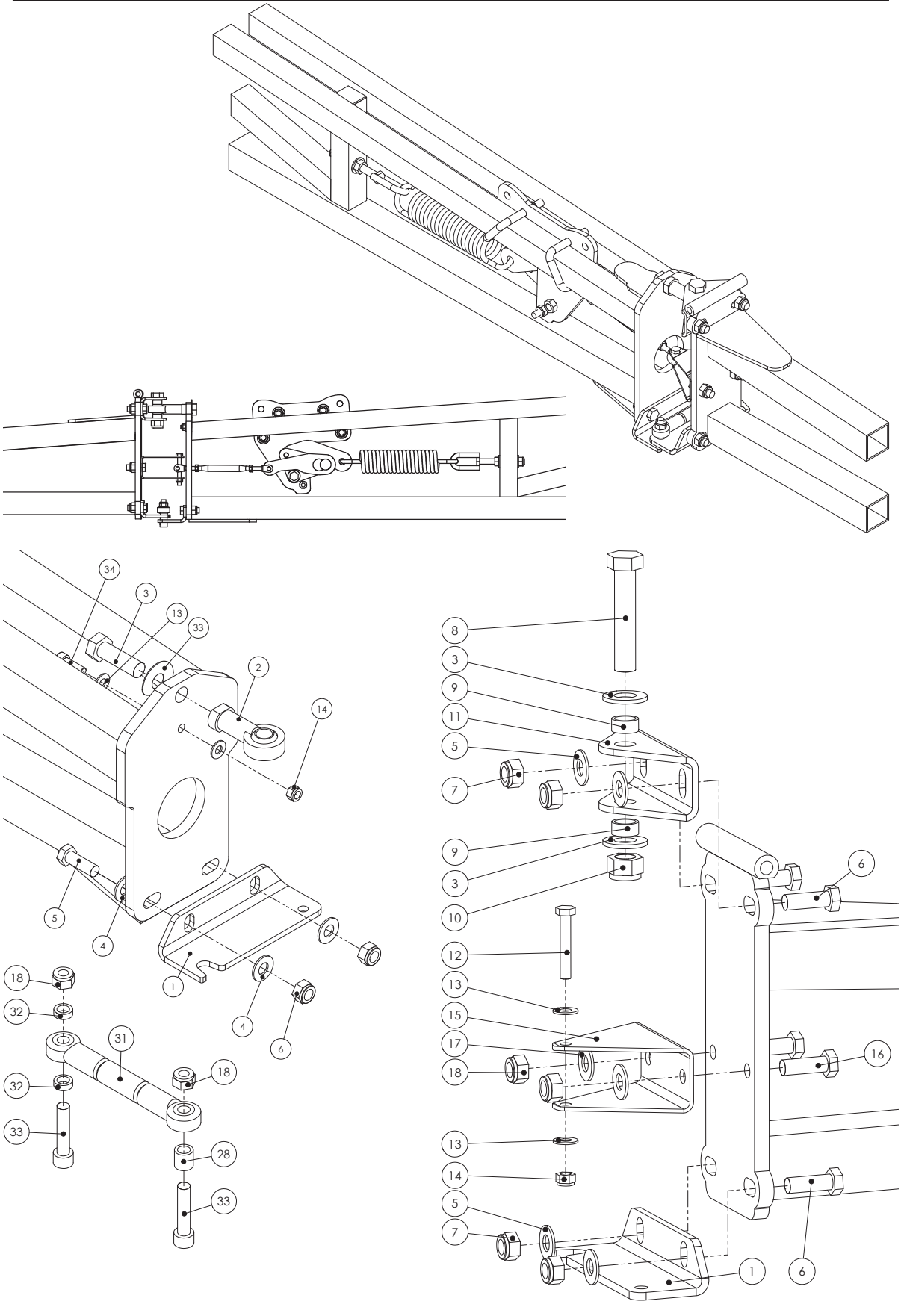
Part Number	Description
GA4656054	24m Outer boom section (2239mm Long)
GA4656051	24m Outer boom section (3749mm Long)
GA4656061	28m Outer boom section (4264mm Long)
GA4656066	30m Outer boom section (5265mm Long)
GA4656071	33m Outer boom section (5764mm Long)
GA4656076	36m Outer boom section (6805mm Long)
GA4656053	Boom outer, 24m heavy duty no breakaway, suit 36m inner

Steel Inner Wings

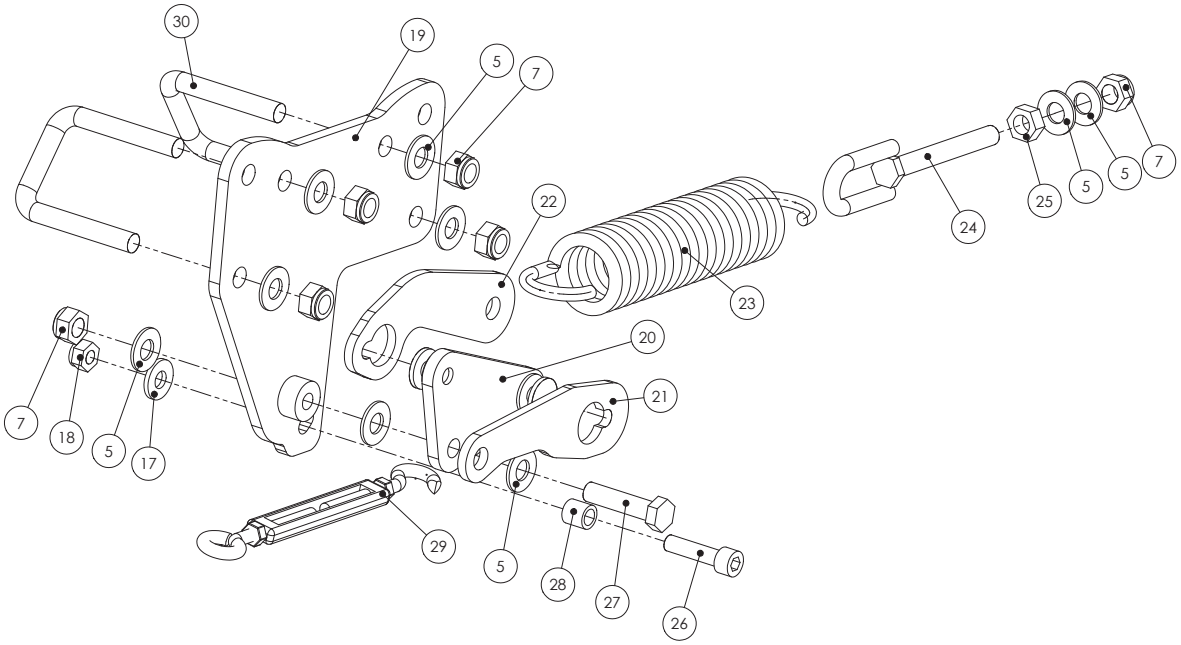


Part Number	Description
GA4656780	24-30M Boom inner Bi-Fold RH
GA4656785	24-30M Boom inner Bi-Fold LH
GA4656790	36M Boom inner Bi-Fold RH
GA4656795	36M Boom inner Bi-Fold LH

Three Dimensional Breakaway



Three Dimensional Breakaway

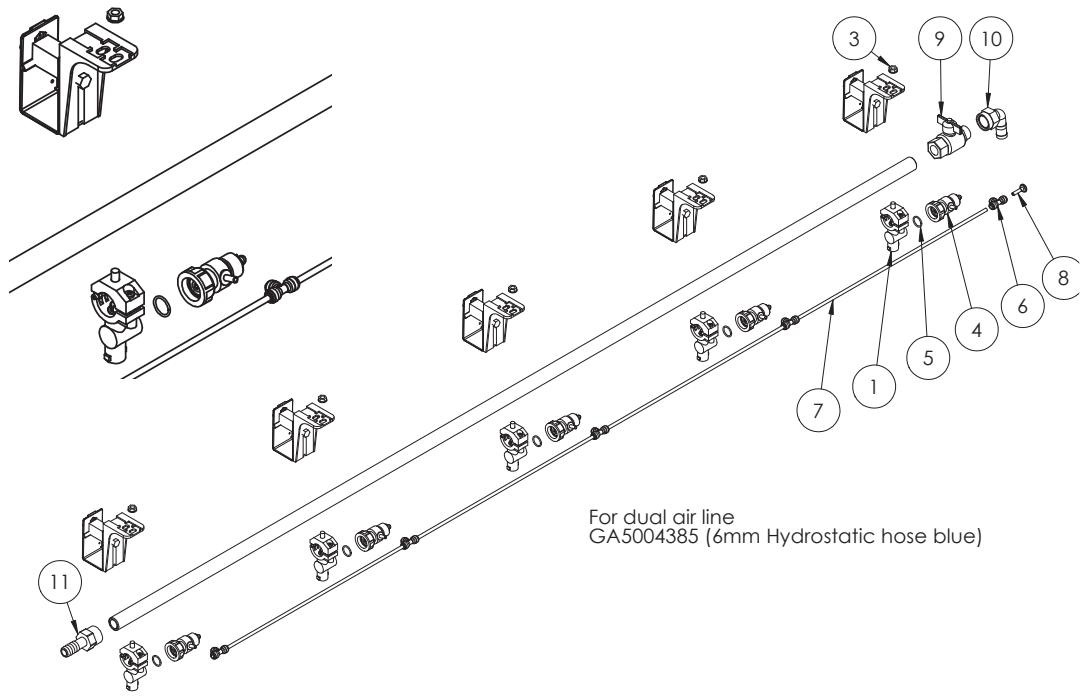


ITEM	PART NO	DESCRIPTION	QTY
1	GA4502105	Lower Breakaway Bracket	2
2	GA5014469	16mm Female Rod End	1
3	GA5001043	16mm Washer	2
4	GA5000933	M16 x 50mm Bolt	1
5	GA5000587	12mm Washer	15
6	GA5011231	M12 x 35mm Bolt	6
7	GA5012461	M12 Nyloc Nut	11
8	GA5011307	M16 x 80mm Bolt	1
9	GA4552070	Crush Tube (16.2x20.5x9.5)	2
10	GA5001029	M16 Nyloc Nut	1
11	GA4502095	Upper Breakaway Bracket	1
12	GA5004727	M8 x 50mm Bolt	1
13	GA5004883	8mm Washer	4
14	GA5004917	M8 Nyloc Nut	2
15	GA4502100	Middle Breakaway Bracket	1
16	GA5006111	M10 x 35mm Bolt	2
17	GA5000139	10mm Washer	6
18	GA5000141	M10 Nyloc Nut	5
19	GA4656115-01	Stationary Breakaway Plate	1
20	GA4656115-02	Moving Breakaway Plate	1
21	GA4532590	Turnbuckle Plate	1
22	GA4532565	Spring Plate	1
23	GA5016605	Breakaway Spring	1
24	GA5008545	M12 Eye Bolt	1
25	GA5000559	M12 Nut	1
26	GA5006141	M10 x 40mm Cap Screw	1

Three Dimensional Breakaway

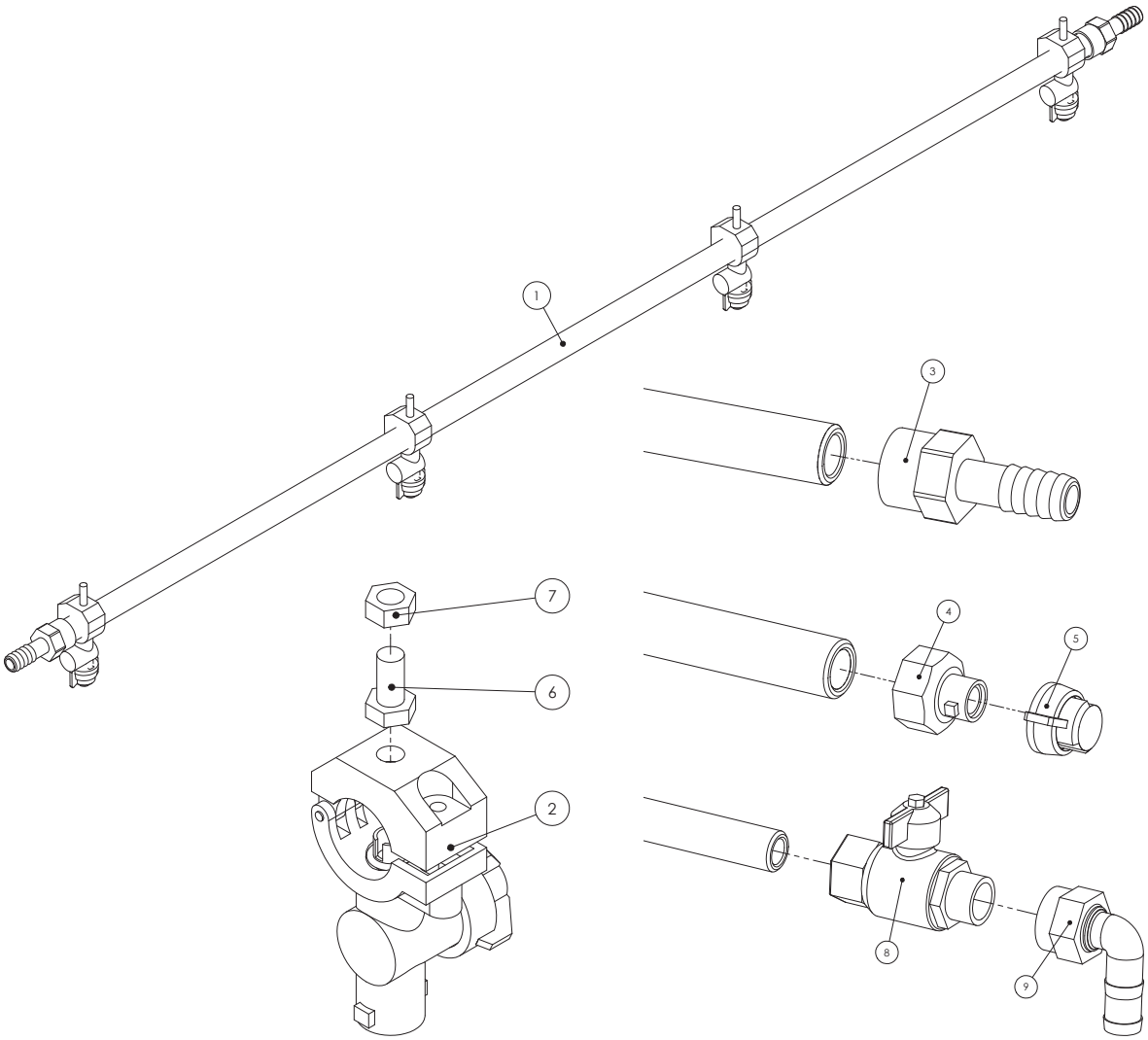
ITEM	PART NO	DESCRIPTION	QTY
27	GA5000331	M12 x 50mm Bolt	1
28	GA4552075	Crush Tube (10.2x15x15)	2
29	GA5066930	Turnbuckle	1
30	GA5011251	M12 x 52mm x 80mm U Bolt	2
31	GA4902060-3	Rodend Assembly	1
32	GA4552080	Crush Tube (10.2x15x5)	2
33	GA4522485	Rod End Locking Washer	1
34	GA5004717	M8 x 30mm Cap Screw	1

Rapidfire Boom Line Plumbing



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	QJ17560A-3_4	TEEJET Nozzle Body	5
2	GA5011465	M8x16 bolt H/T	5
3	GA5003623	M8 plastic nut	5
4	GA5065520	spray stop suit teejet air	5
5	GA5053135	O ring 18 x 2 suit spray stop body	5
6	GA5016245	Tee equal push in 6mm	5
7	GA5004383	6mm hydrostatic Hose black	4
8	GA5004405	Plug push in 6mm	1
9	GA5018315	Ball Valve Male / Female TEE 3/4"	1
10	HBF075-90	Elbow female 3/4" Banjo	1
11	HBF075	Hose barb female 3/4"	1
12	GA5000531	3-16 x 3-4 SS Machine Screw	5

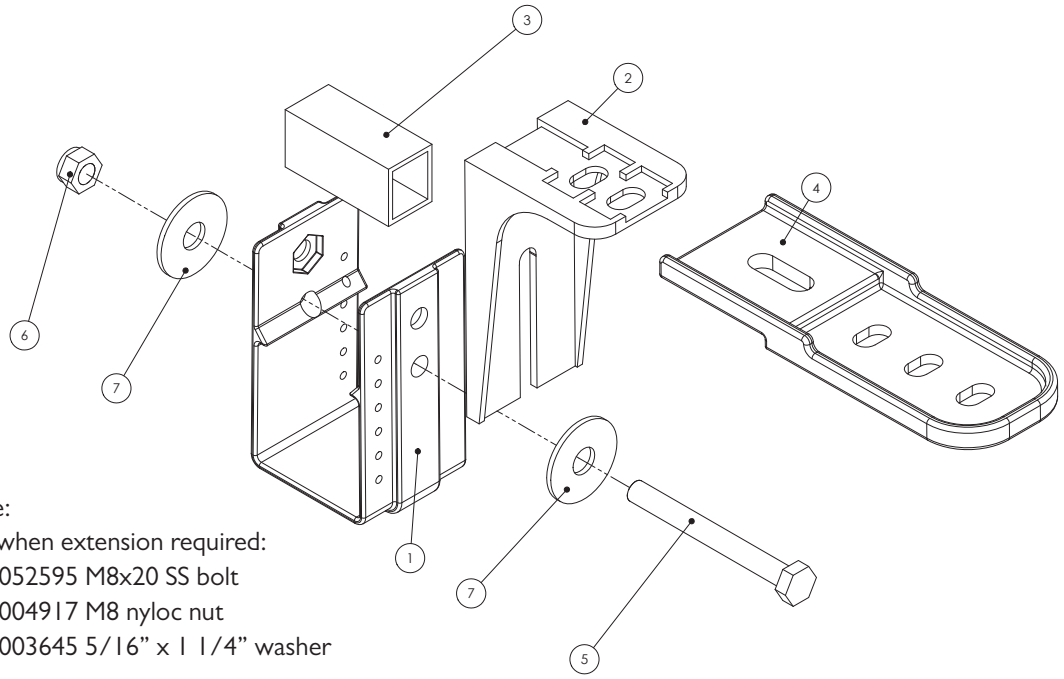
Boom Line Plumbing



ITEM	PART NUMBER	DESCRIPTION	QTY
1	GA5018273	4 Hole, 1600mm long Poly Boom Manifold	*
	GA5018275	5 Hole, 2100mm long Poly Boom Manifold	*
	GA5018279	6 Hole, 2600mm long Poly Boom Manifold	*
	GA5018281	7 Hole, 3100mm long Poly Boom Manifold	*
2	QJ17560A	Teejet Nozzle Body	*
3	HBF075	3/4” Hose Barb (Female)	*
4	400278	3/4” Adapter	*
5	19843-NYR	Shut Off Cap	*
6	GA5003621	M8 x 16mm Bolt (Plastic)	*
	GA5011465	M8 x 16mm Bolt (S/Steel)	*
7	GA5003623	M8 Plastic Nut	*
	GA5004917	M8 Nyloc Nut	*
8	GA5018315	3/4” Ball Valve	*
9	HBF075-90	3/4” Poly Elbow	

* Quantities vary

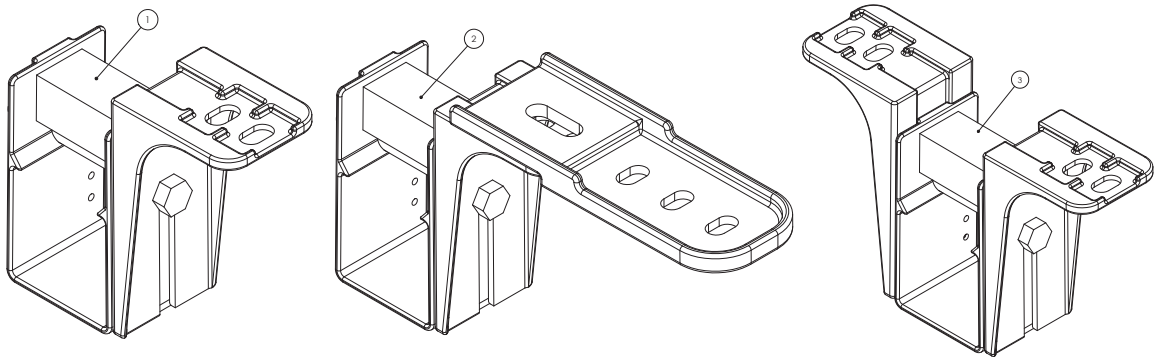
Adjustable Nozzle Brackets



Note:
Use when extension required:
GA5052595 M8x20 SS bolt
GA5004917 M8 nyloc nut
GA5003645 5/16" x 1 1/4" washer

ITEM	PART NUMBER	DESCRIPTION	QTY
1	GA5018259	"U" Nozzle Bracket to suit 50mm RHS	1
2	GA5018257	"L" Nozzle Bracket	1
3	GA5066965	Spacer	1
4	GA5018255	Dual Boom Nozzle Extension Bracket	1
5	GA5004741	M8 x 75mm Bolt (S/S 304)	1
6	GA5004917	M8 Nyloc Nut	1
7	GA5003645	5/16" x 1 1/4" Washer	2

Pre Packaged Kits

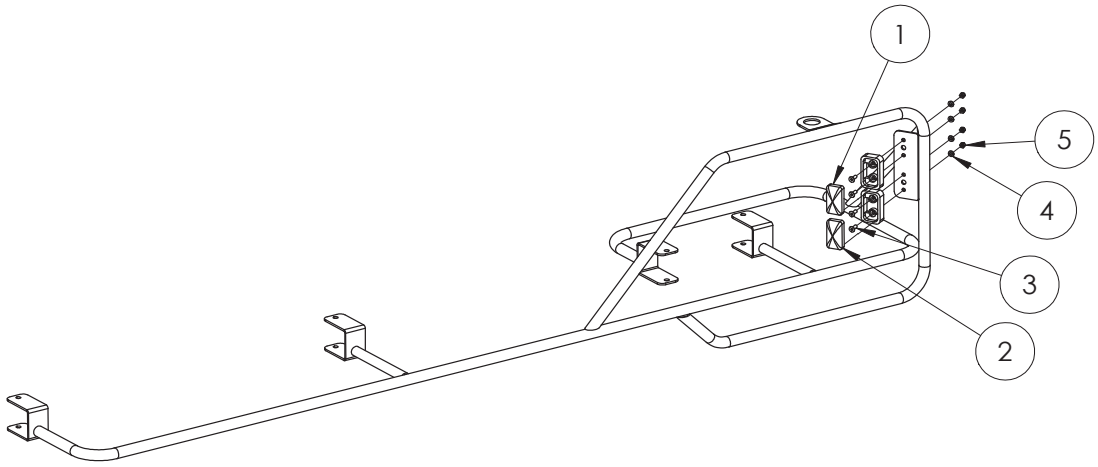


ITEM	PART NO	DESCRIPTION
1	GA4948675	Single line nozzle bracket
2	GA4948695	Dual Line nozzle bracket (rear side) Kit
3	GA4948685	Dual Line nozzle bracket (both sides) Kit

Chapter 15

15_ELECTRICS

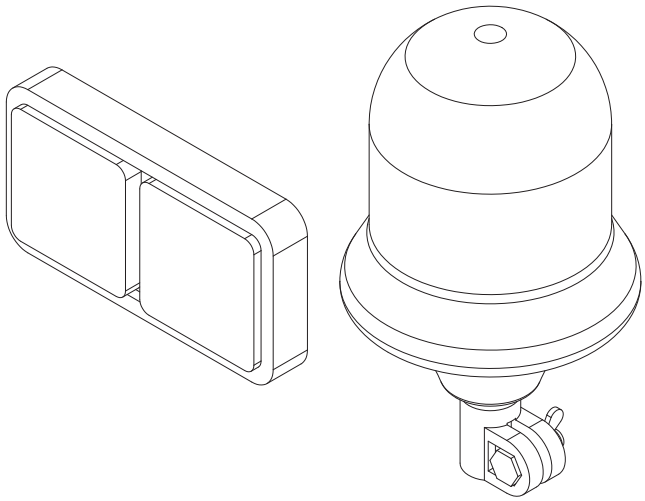
Boom LED Lights



Note: GA5060262 Boom fence line suit dual solenoid loom
Not shown

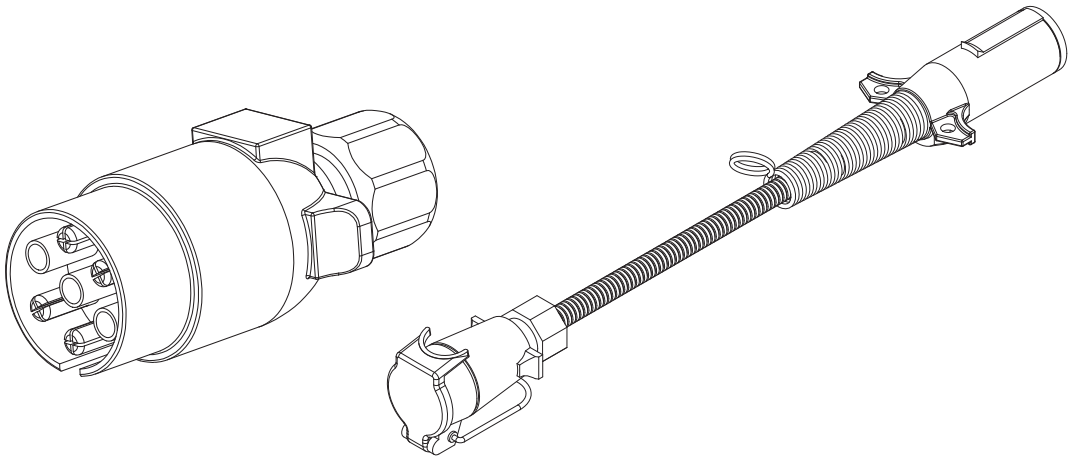
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5051345	Light Boom Clearance LED (orange)	1
2	GA5075155	Red LED Fence line jet clearance light	1
3	GA5051230	Bolt M5 x 16mm FHCS 45°	4
4	GA5003983	M5 washer SS	4
5	GA5003975	M5 Nyloc nut SS	4

Lights



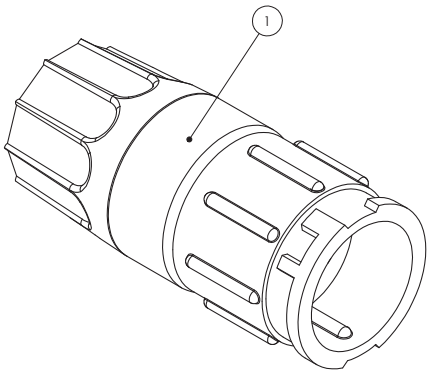
PART NO	DESCRIPTION
GA5018786	LED Tail Light
GA5048975	Rotating Becon Light

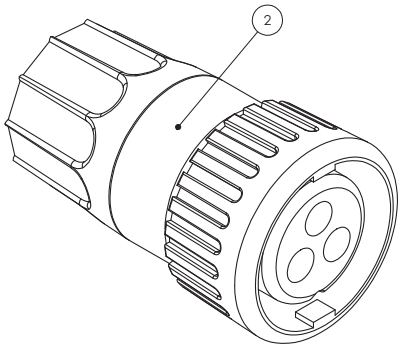
Electrical Components

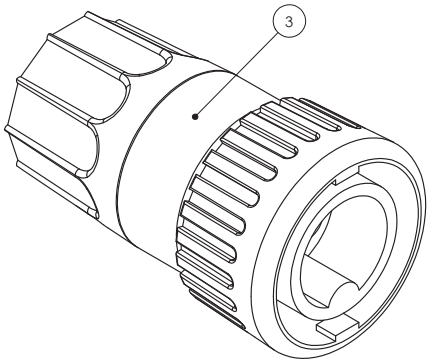


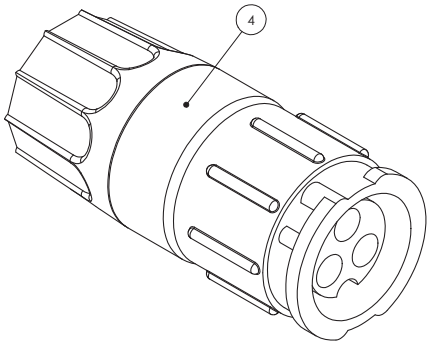
PART NO	DESCRIPTION
GA5004477	7 Pin Trailer Plug (Round)
GA5060350	Adpater to suit American Style Tractors

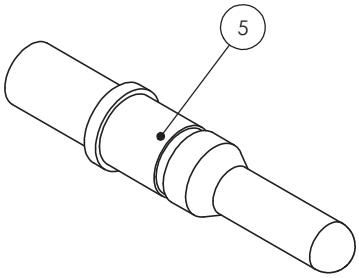
Raven (AMP) Electrical Connectors

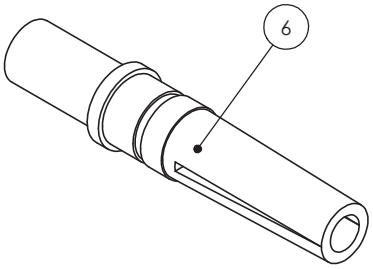






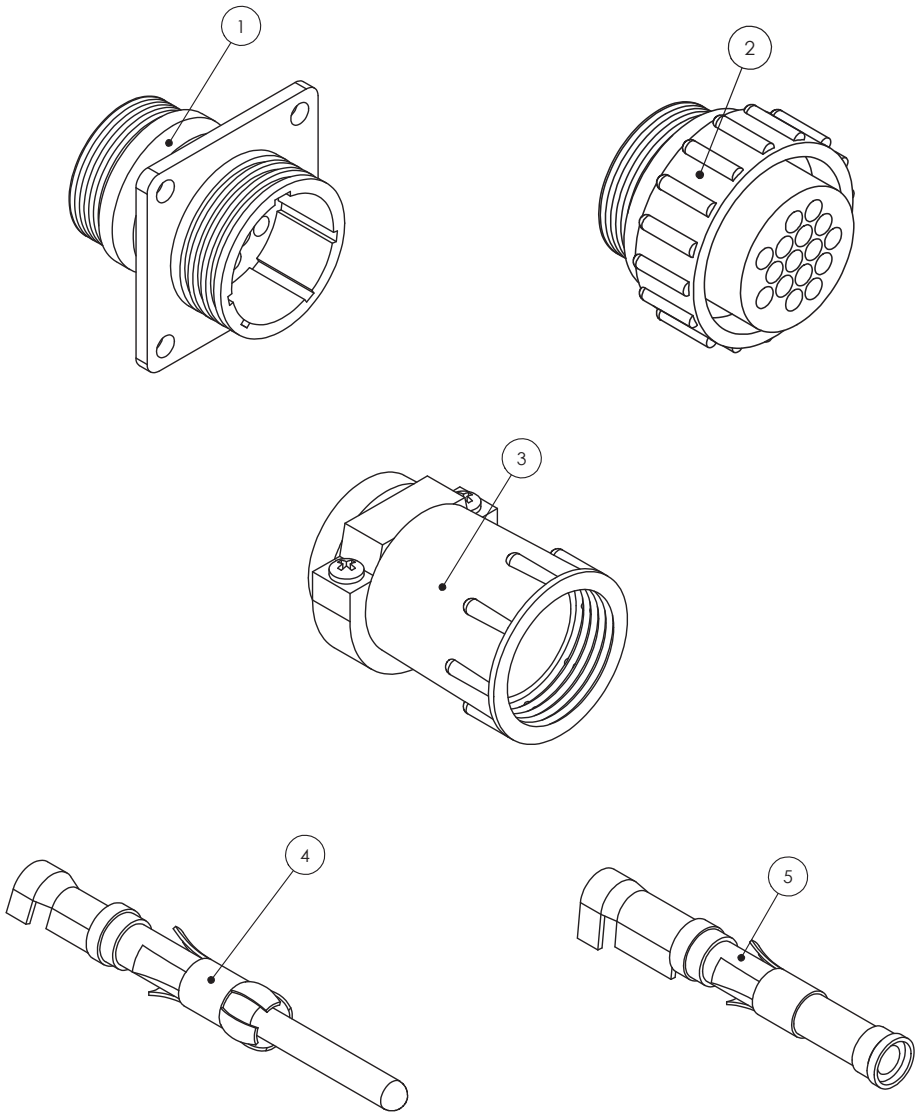






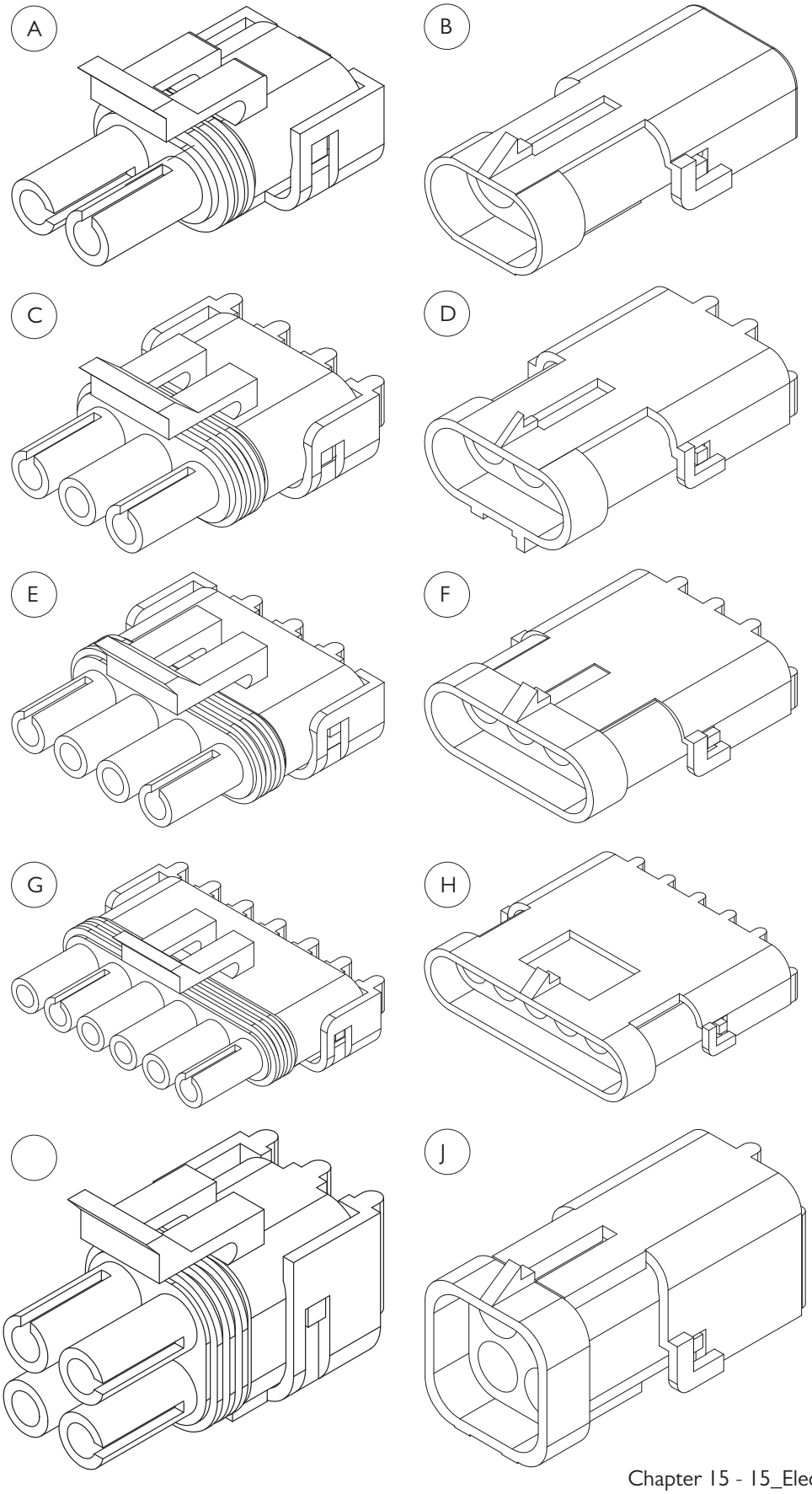
ITEM	PART NO	DESCRIPTION
1	4084001014	Male Flow Meter Connector
2	4084001015	Female Flow Meter Connector
3	4084001010	Male Speed Sensor Connector
4	4084001016	Female Speed Sensor Connector
5	4084001062	Male Pin for Flow Meter & Speed Sensor Connectors
6	4084001063	Female socket for Flow Meter & Speed Sensor Connectors

Raven (AMP) Electrical Connectors

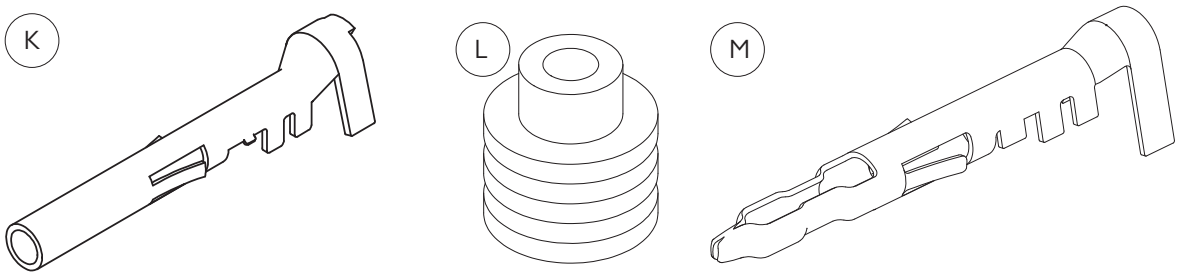


ITEM	PART NO	DESCRIPTION
1	4084001017	Male Loom Connector for 440 & 450 Consoles (16 Pin)
2	4084001018	Female Loom Connector for 440 & 450 Consoles (16 Pin)
3	GA5049175	Backing Shell for 16 Pin Connectors
4	GA5048905	Gold Male Pin For Raven Loom Connectors
5	GA5048900	Gold Female socket for Raven Loom Connectors
	GA5020785	Male loom connector 37 pin (not shown)
	GA5020780	Female loom connector 37 pin (not shown)
	GA5020560	Backing Shell 37 pin connector (not shown)

Electrical Connectors



Electrical Connectors



ITEM NO	PART NO	DESCRIPTION
A	GA5001351	Male 2 Pin Plug
B	GA5007381	Female 2 Pin Plug
C	GA5002211	Male 3 Pin Plug
D	GA5048550	Female 3 Pin Plug
E	GA5007385	Male 4 Pin Flat Plug
F	GA5007383	Female 4 Pin Flat Plug
G	GA5004009	Male 6 Pin Plug
H	GA5002663	Female 6 Pin Plug
I	GA5049000	Male 4 Pin Square Plug
J	GA5050805	Female 4 Pin Square Plug
K	GA5016619	Female Type Socket
L	GA5014857	Rubber Seal (Green)
M	GA5016617	Male Type Pin

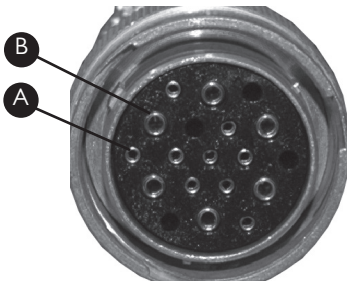
Deutsch Electrical Connectors

Deutsch Part Number Breakdown

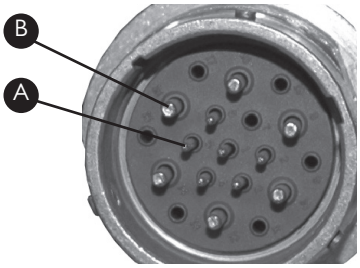
HD 34/36 - 18/24 - 14/24/47 - PN/SN

- HD Series
- 34/36: 34- Jam Nut Type, 36- Screw Type
- 18/24: Shell Size
- 14/24/47: Number of Pins
- PN/SN: PN- Pins, SN- Sockets

Item	Part No	Description
A	GA5061230	16GA Female Deutsch Socket
B	GA5061270	12GA Female Deutsch Socket



Item	Part No	Description
A	GA5061220	16GA Male Deutsch Pin
B	GA5061260	12GA Male Deutsch Pin



Deutsch Electrical Connectors

Item	Part No	Description
A	GA5002671	HD34-18-14PN Connector
B	GA5002675	HD34-24-21PN Connector

Item	Part No	Description
A	GA5002663	HD36-18-14SN Connector
B	GA5002655	HD36-24-21SN Connector

Part No	Description
GA5062635	HD34-24-47-PE Connector(47 Socket)
GA5061200	Small Male Socket
GA5061260	Large Male Socket

Part No	Description
GA5062640	HD24-47-SE-059 Connector(47 Pin)
GA5061210	Smale Female Pin
GA5061230	Large Female Pin

Part No	Description
GA5021310	HD36-24-19SN-059 Connector 19 socket

Part No	Description
GA5021315	HD34-24-19PN Connector 19 pin

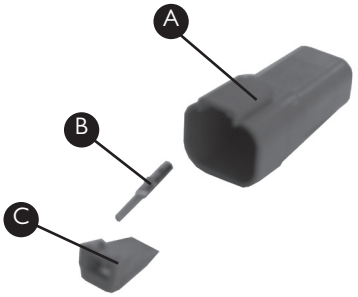
Deutsch Electrical Connectors

Part No	Description
GA5020920	Plug for size 24 Connector with External Thread on Plug
GA5020910	Plug for size 18 Connector with External Thread on Plug

Part No	Description
GA5020925	Plug for size 24 Connector with External Thread on Connector
GA5020915	Plug for size 18 Connector with External Thread on Connector

Item	Part No	Description
A	GA5012399	Connector Lock Nut suit 24 shell
	GA5009887	Connector Lock Nut suit 18 shell
B	GA5017621	Connector Lock Washer suit 24 shell
	GA5009893	Connector Lock Washer suit 18 shell

Item	Part No	Description
A	GA5013783	Housing (4 Pin)
B	GA5061240	Pin
C	GA5050765	Lock Wedge

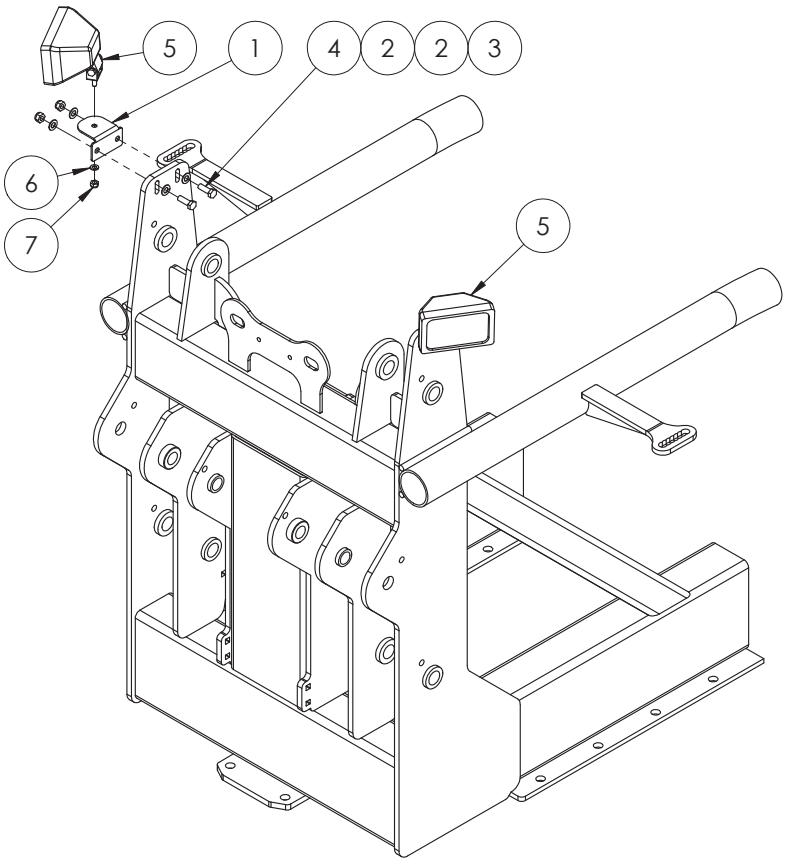


DEUTSCH CONNECTOR PLACEMENTS

Part No	Position on Sprayer
GA5002671	Used on the Foam/Hydraulics console loom
GA5002675	Used on the Foam/Hydraulics console loom
GA5002663	Used on the Foam Hydraulics chassis loom
GA5002655	Used on the Foam Hydraulics chassis loom
GA5021310	Used on the Direct Chemical Injection chassis loom
GA5021315	Used on the Direct Chemical Injection console loom
GA5062635	Used on the Main Sprayer console loom
GA5062640	Used on the Main Srayer chassis loom

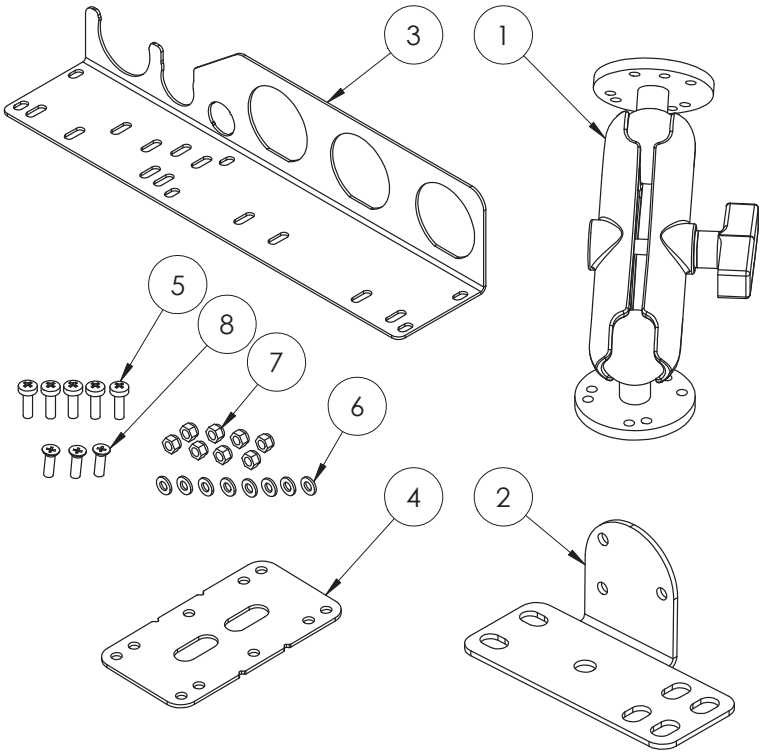
Boom Lights Mount

Chassis cut down rear view



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4522570	Boom light mounting bracket	2
2	GA5000115	Washer flat SS 10mm	8
3	GA5000141	M10 Nyloc Nut	4
4	GA5065455	Bolt Gr8.8 M10x30	4
5	GA5050105	Flood light Stingray	2
6	GA5004883	Washer 8mm SS	2
7	GA5051700	M8 Nyloc Nut	2

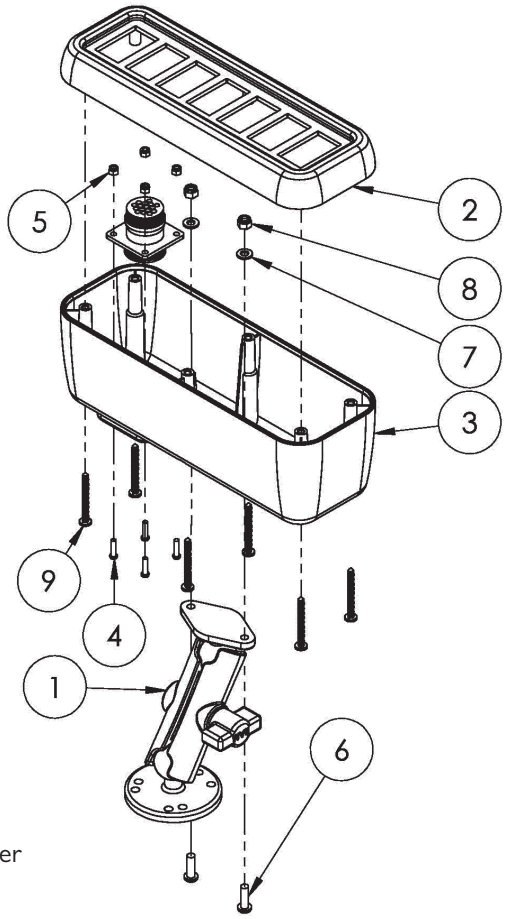
Console Mounting Kit



GA4903666 Complete console mounting kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5020825	Universal Standard Mount RAM 101	1
2	GA4522930	Tractor controller ram mount bracket	1
3	GA4523475	Loom support plate suit 440 and 4400	1
4	GA4523935	Control box dual mounting plate	1
5	GA5003976	M5 x 20mm Pan head Screw	5
6	GA5003983	M5 washer ss	8
7	GA5003975	M5 Nyloc nut SS	8
8	GA5051230	Set Screw M5 x 16 Countersink SS	3

Control Boxes



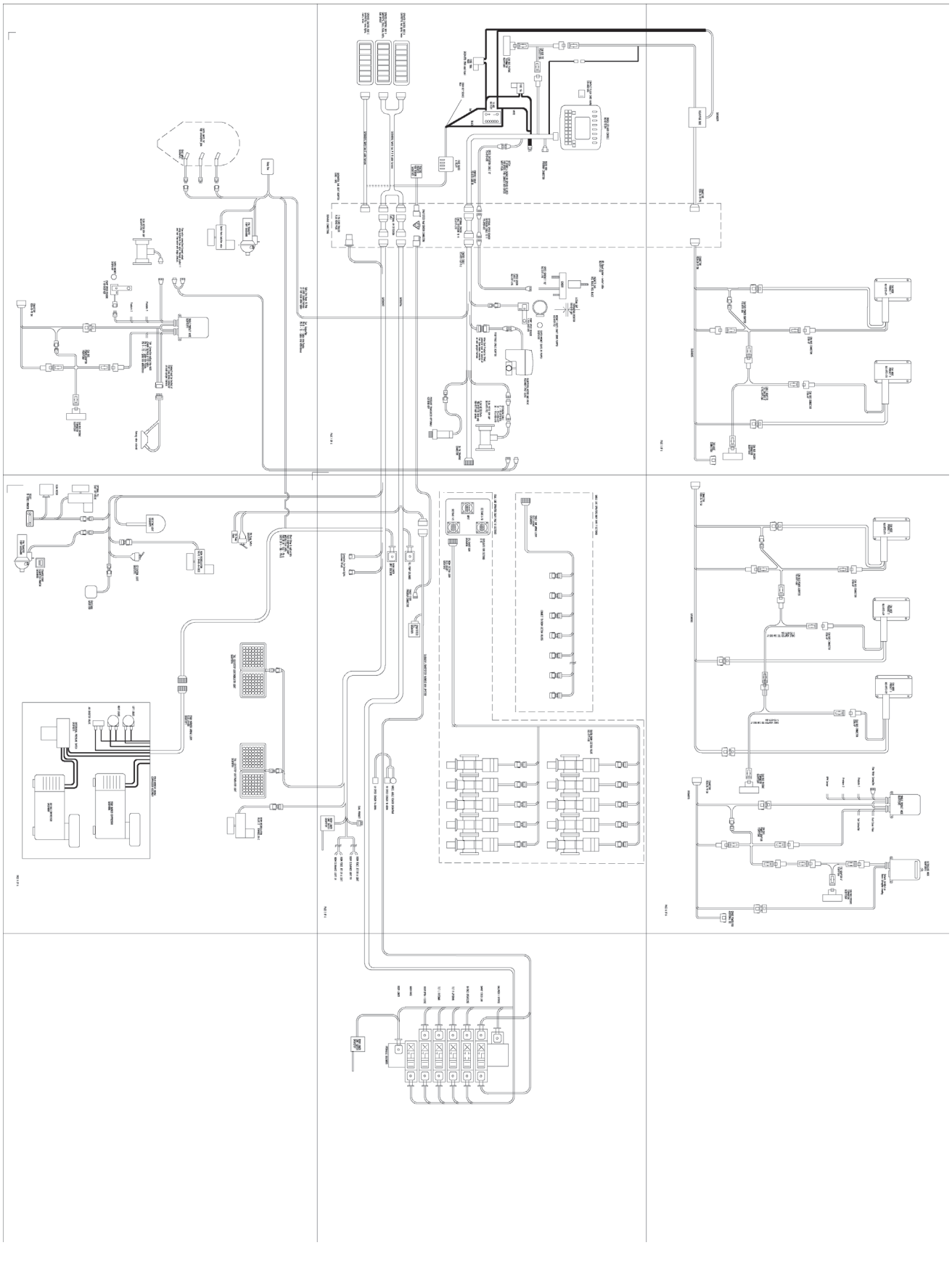
For switchbox decals refer to chapter 17 “Decals”

SWITCH PART NUMBERS	
On/Off switch	GA5012671
On/Off/On	GA5012673
Mom On/Off/ Mom On	GA5060410
Blank insert	GA5006421
Steering Calibrate switch	GA5075180

COMPLETE SWITCH BOXES
Switch Box A GA4903710
Switch Box B GA4903715
Switch Box C GA4903720

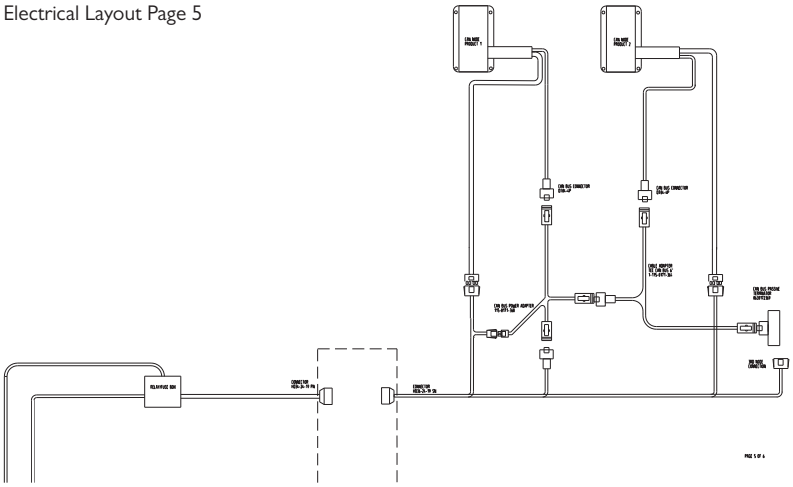
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5068930	RAM-B-138	1
2	GA5075100-02	Switch box 2011 top	1
3	GA5075100-01	Switch box 2011 Base	1
4	GA5003083	M3 x 12mm screw SS	4
5	GA5049465	M3 Nyloc nut SS	4
6	GA5003977	Bolt M5 x 16 Pan Head SS	2
7	GA5003983	M5 Washer SS	2
8	GA5003975	M5 Nyloc nut SS	2
9	GA5075105	Screw Phillips Head 8G 1-1/2 inch Pan Head self tapping stainless steel	6
10	GA5060242	Hyd functions/base sprayer control box loom	1

Electrical Layout - Overview

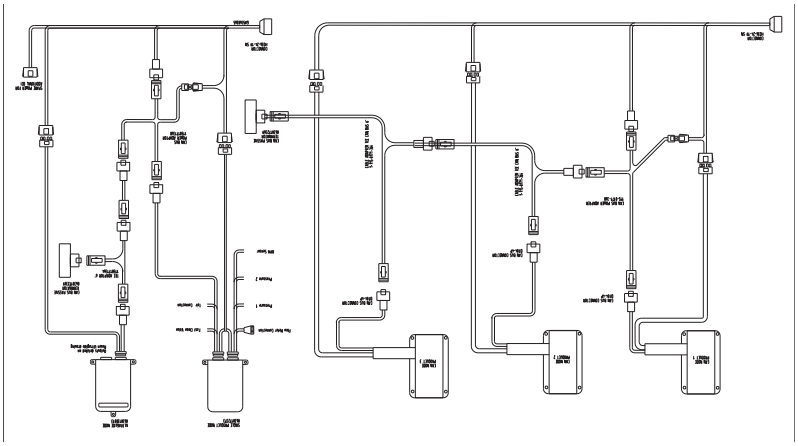


Electrical Layout - DCI & DCI with Ultraglide

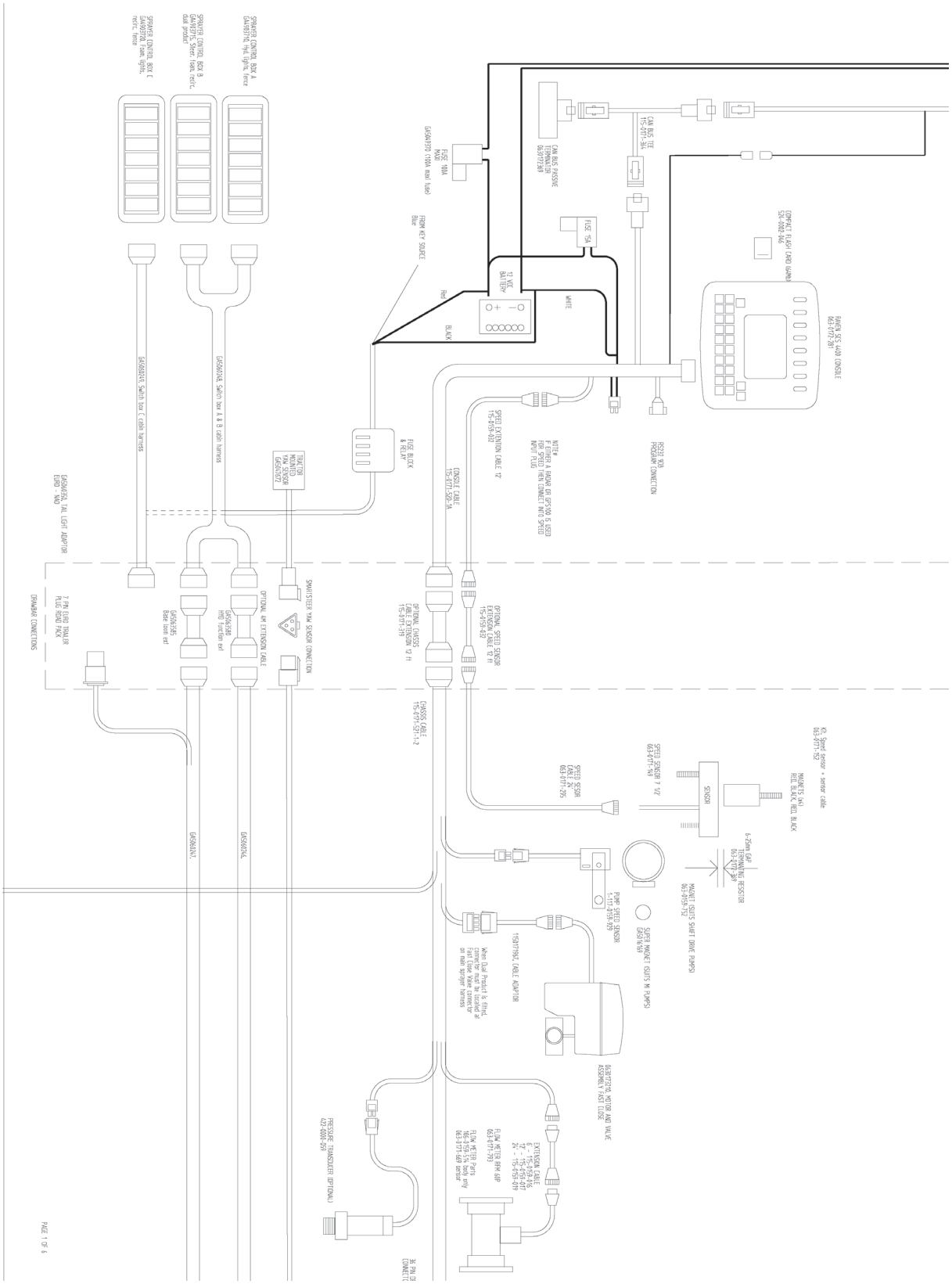
Electrical Layout Page 5



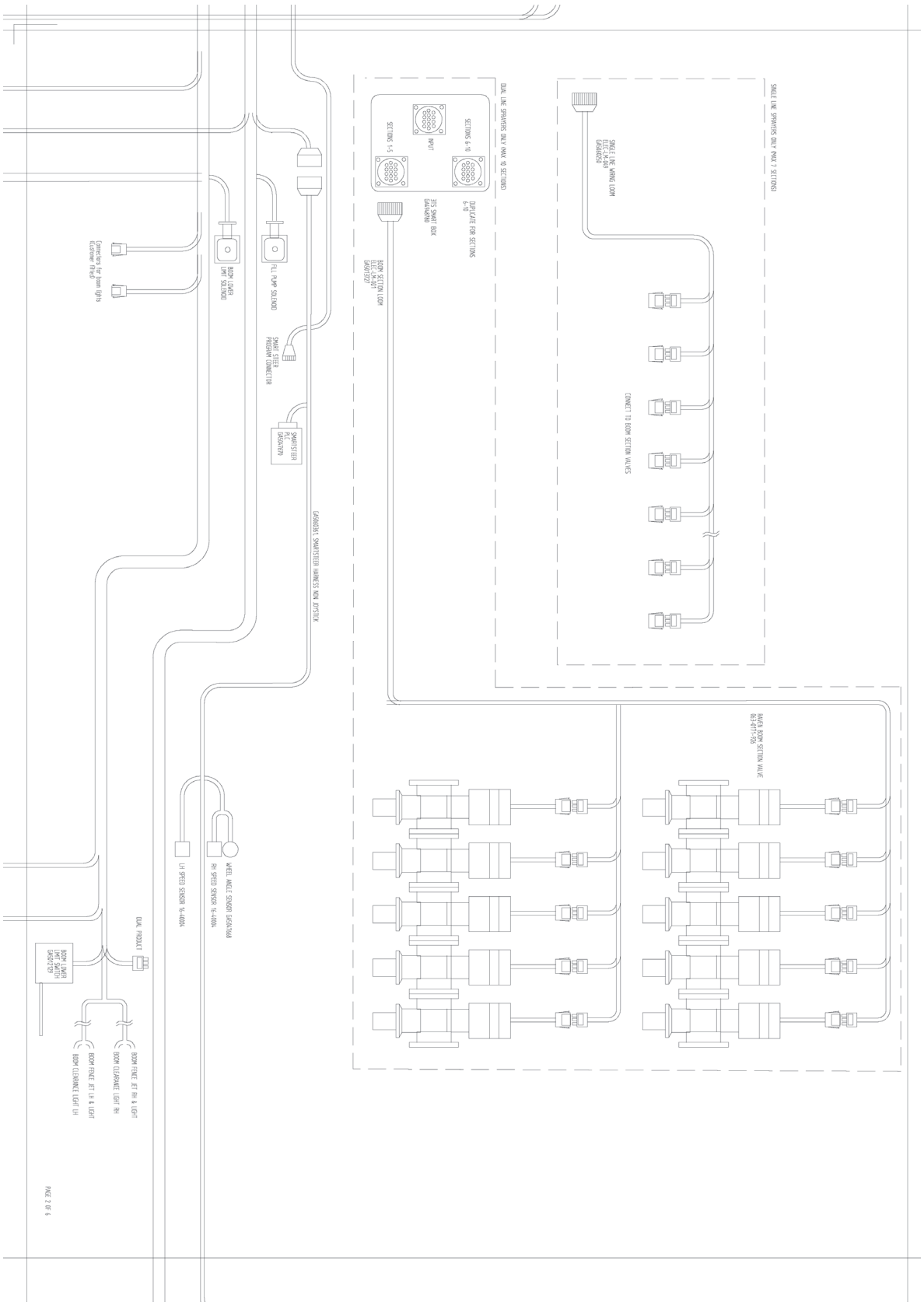
Electrical Layout Page 6



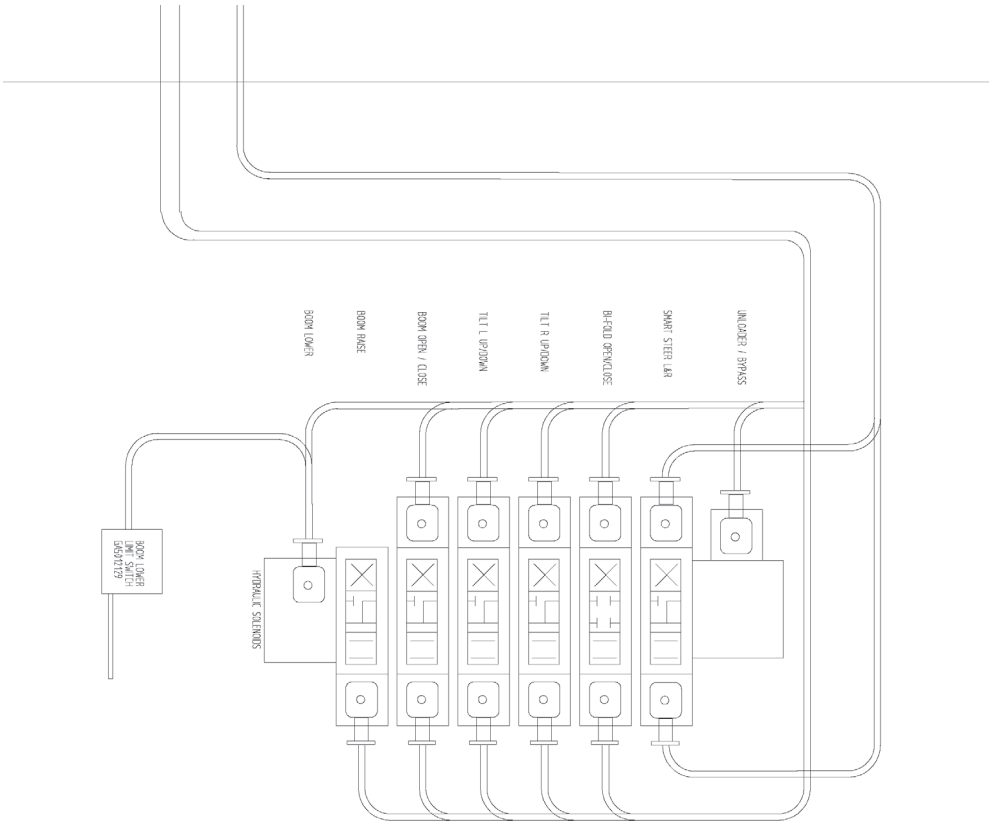
Electrical Layout - Page 1


SPRAYER CONTROL BOX A
GA4000TA 7PIN, 4pin&2 fence
SPRAYER CONTROL BOX B
GA4000TPS, Sheer hoses metric
dual product
SPRAYER CONTROL BOX C
GA4000TPA Foam, 4pin&2
metric fence
GA5060A248, Switch box A & B cabin harness
GA5060A249, Switch box C cabin harness
GA5060A50 TRACTOR 7PIN ADAPTOR LEAD
GA5060A50 TRACTOR 7PIN ADAPTOR LEAD
GA5060A7
GA5060A54
GA5060A50
GA5060A50
GA5060A50

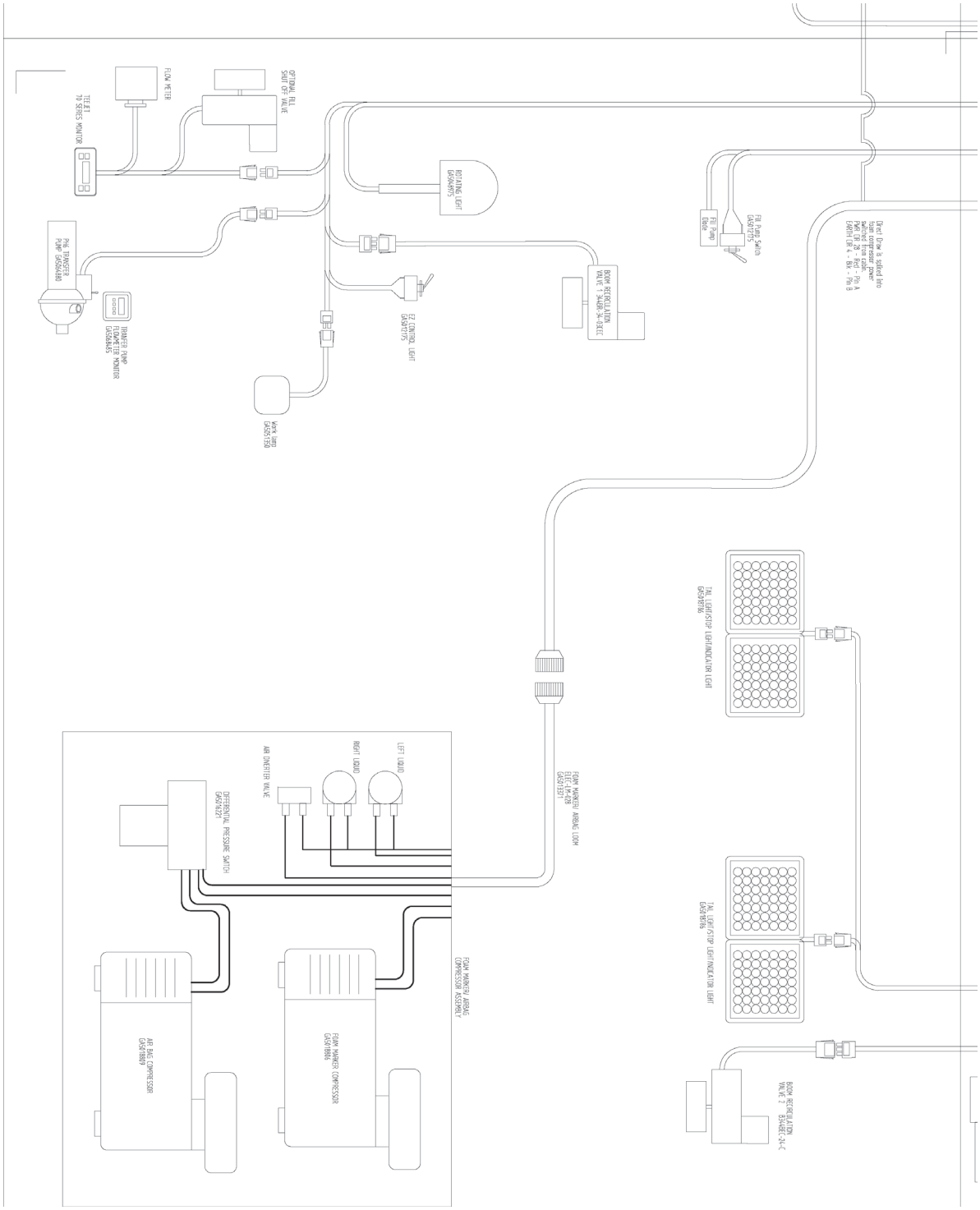
Electrical Layout - Page 2



Electrical Layout - Page 3

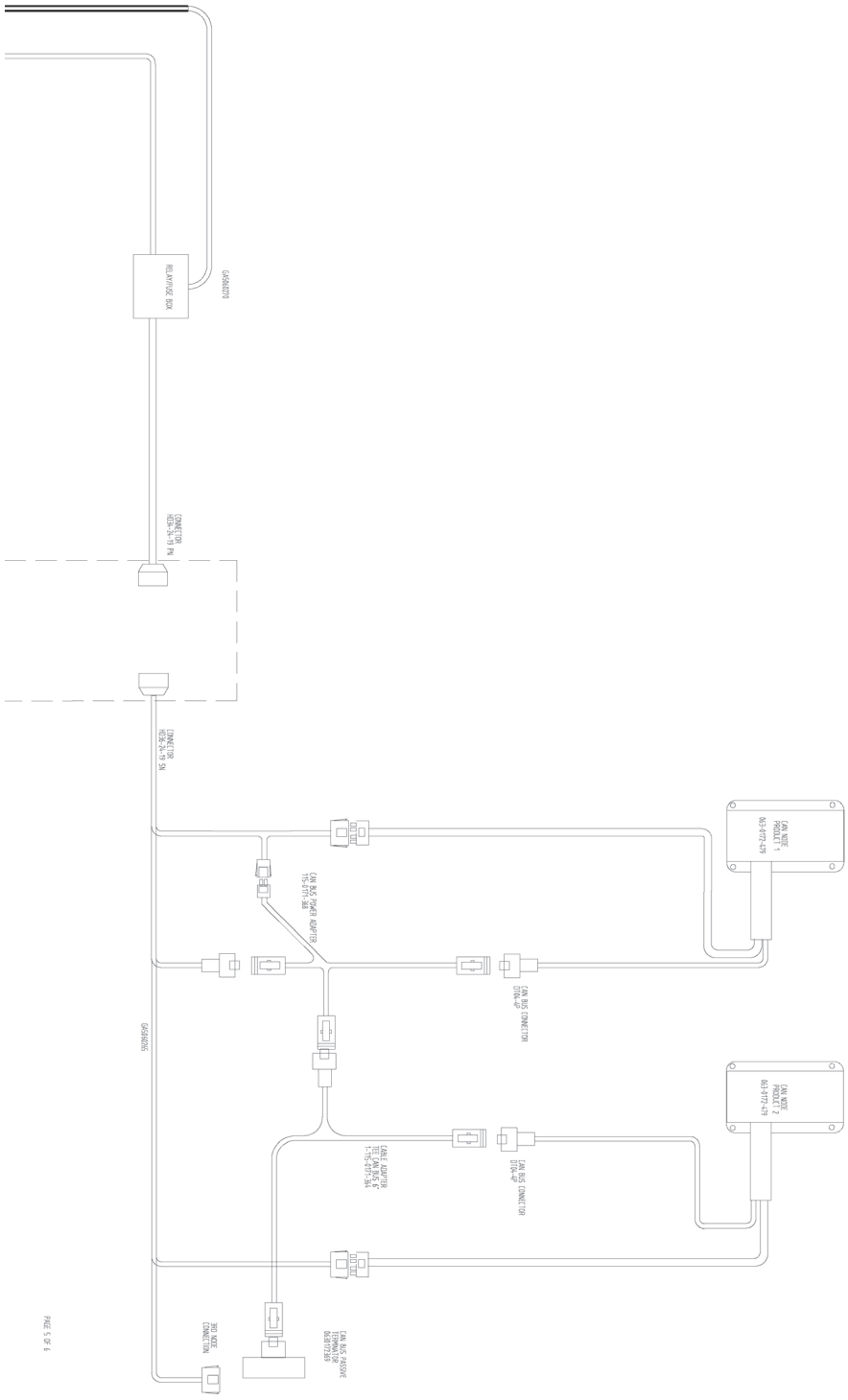


Electrical Layout - Page 4



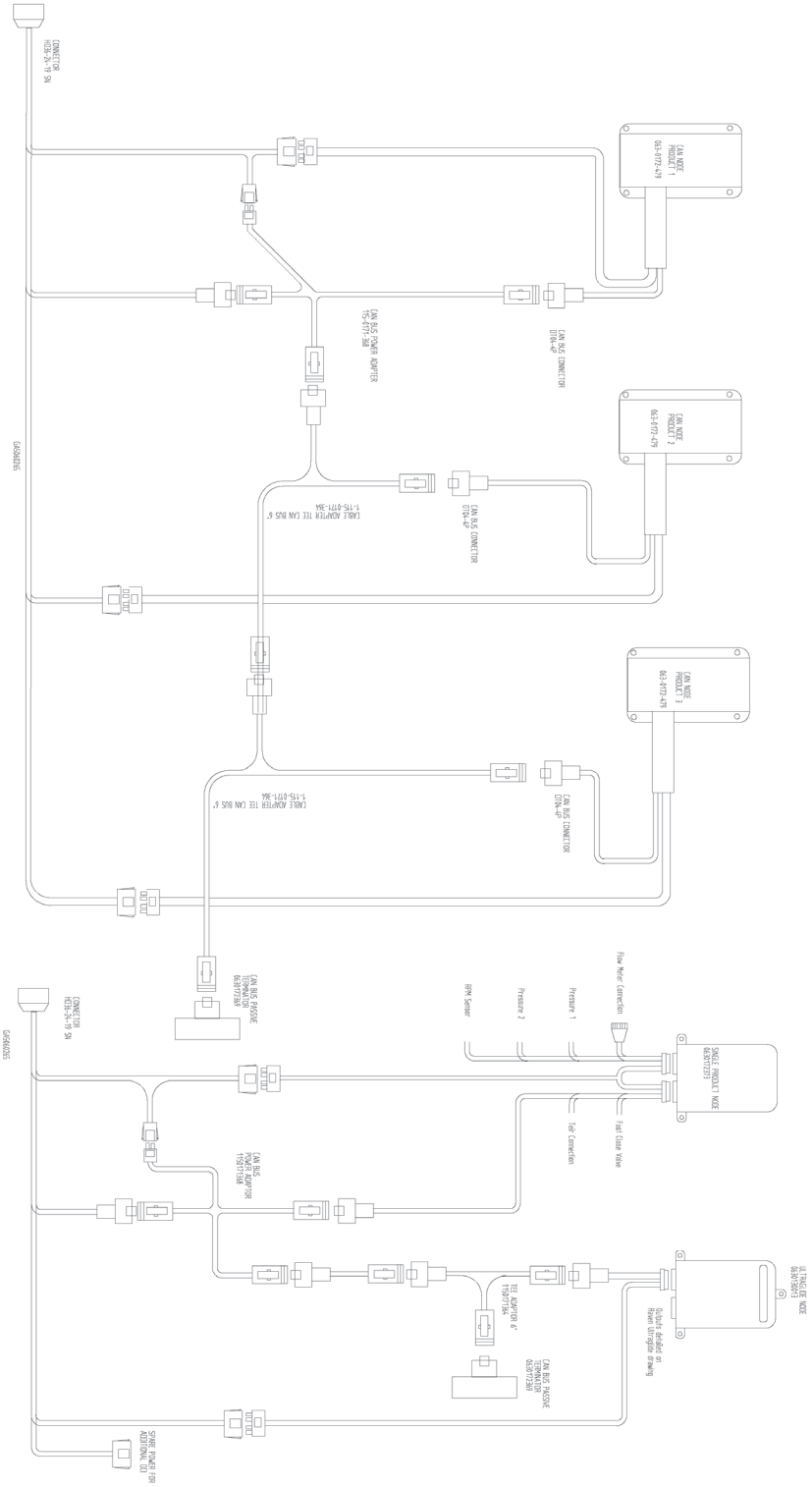
Electrical Layout - Page 5

Direct Chemical Injection

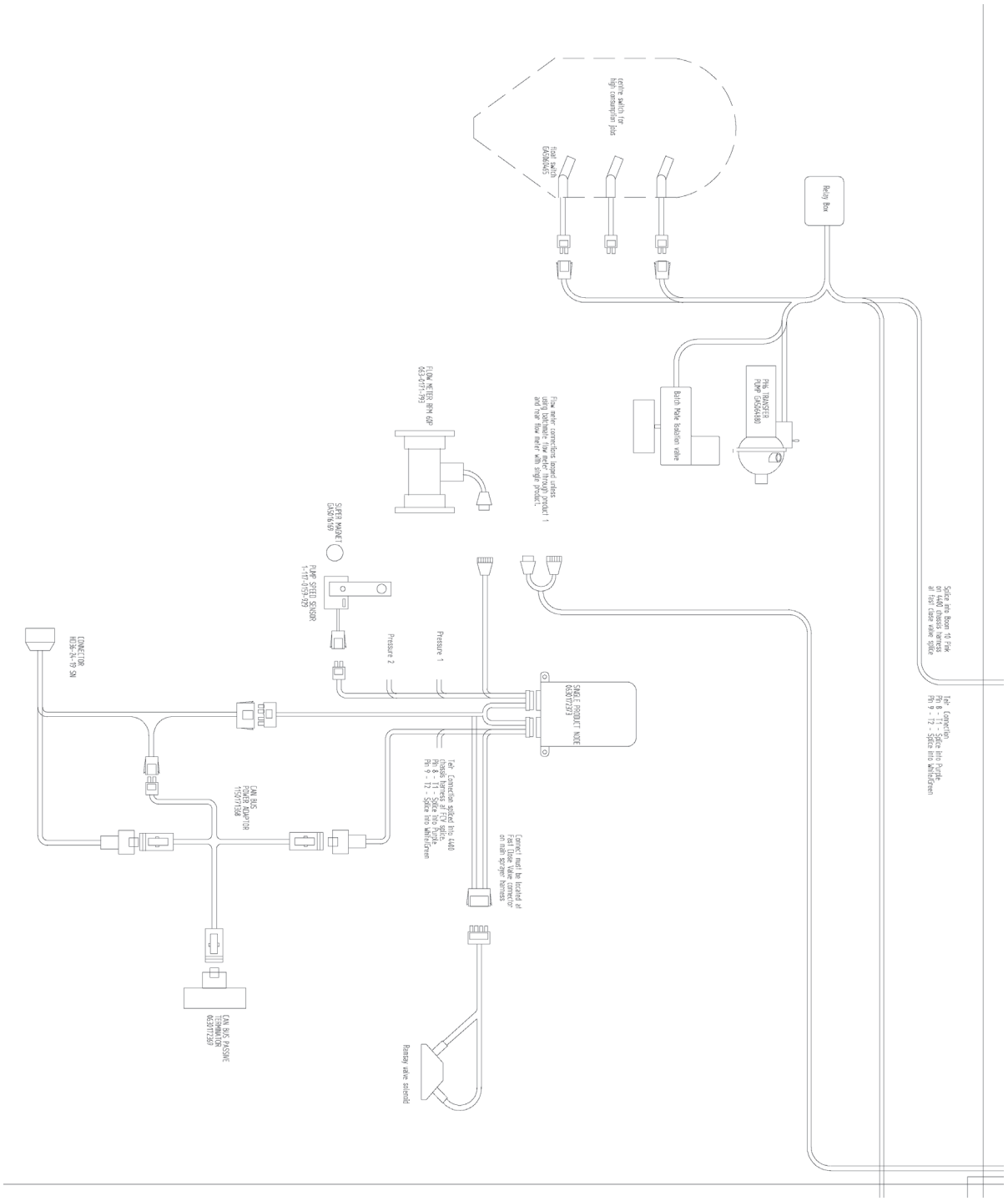


Electrical Layout - Page 6

Direct Chemical Injection with Ultraglide



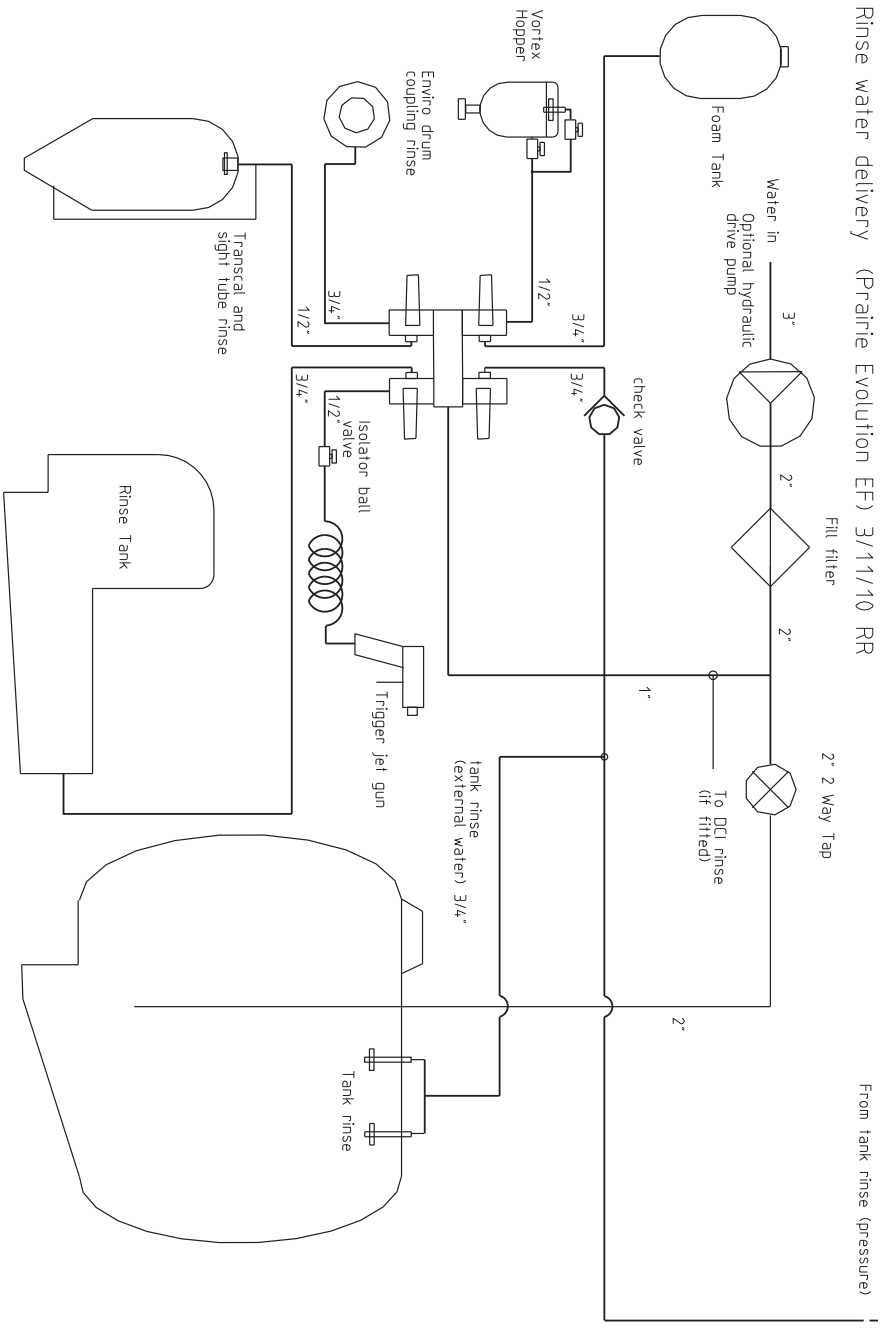
Electrical Layout - Page 7



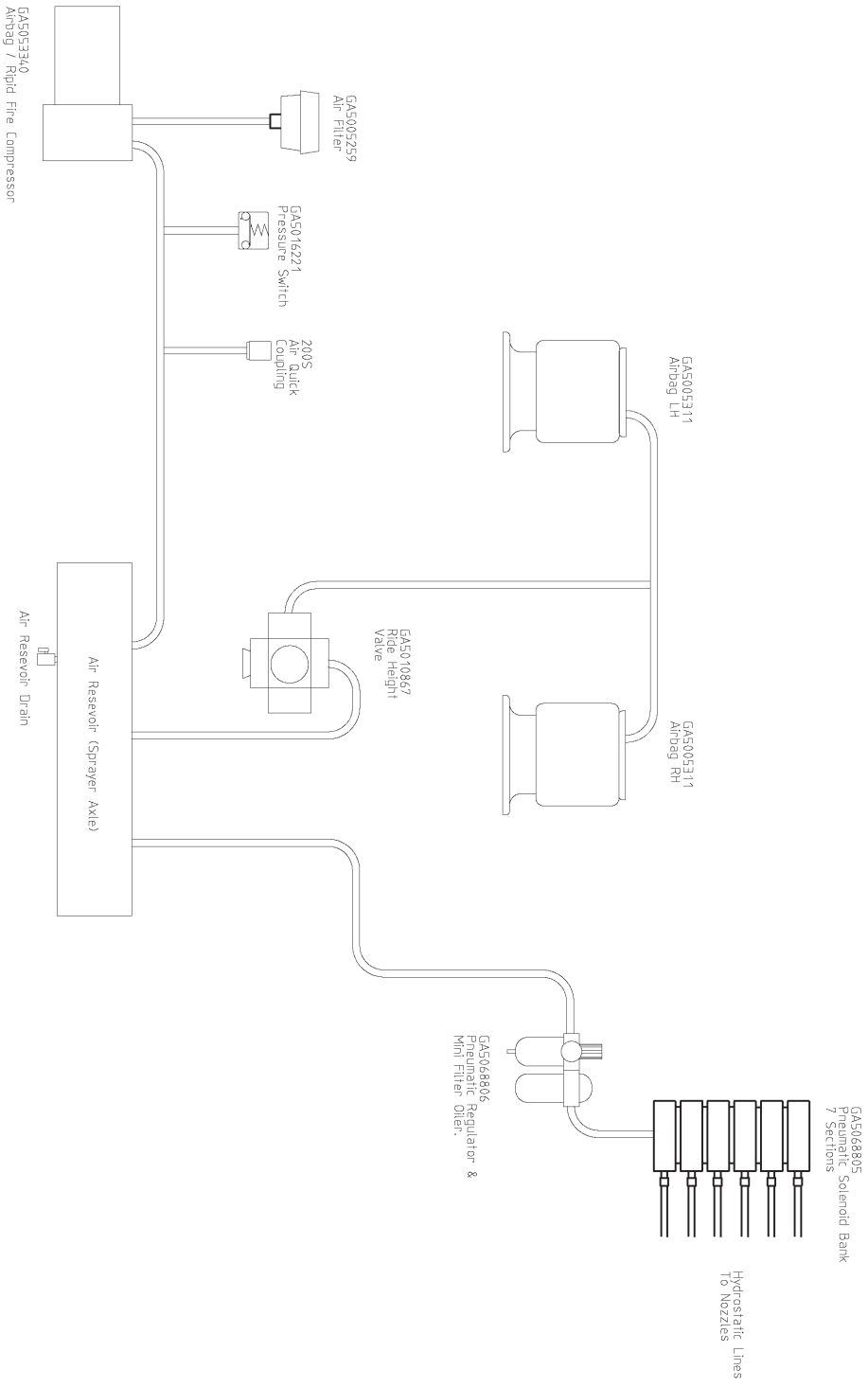
Chapter 16

16_SCHEMATICS

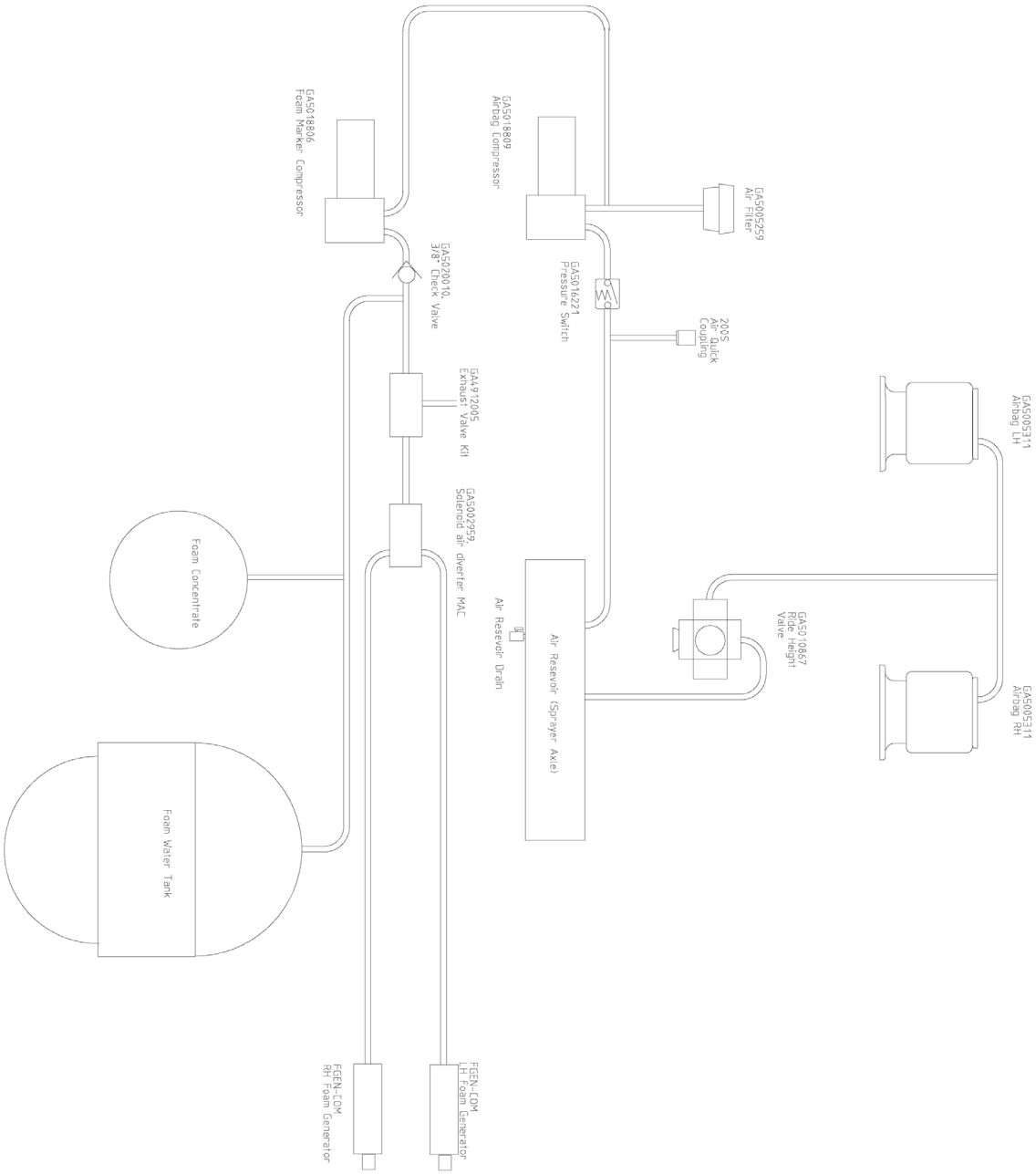
Fresh Water Delivery



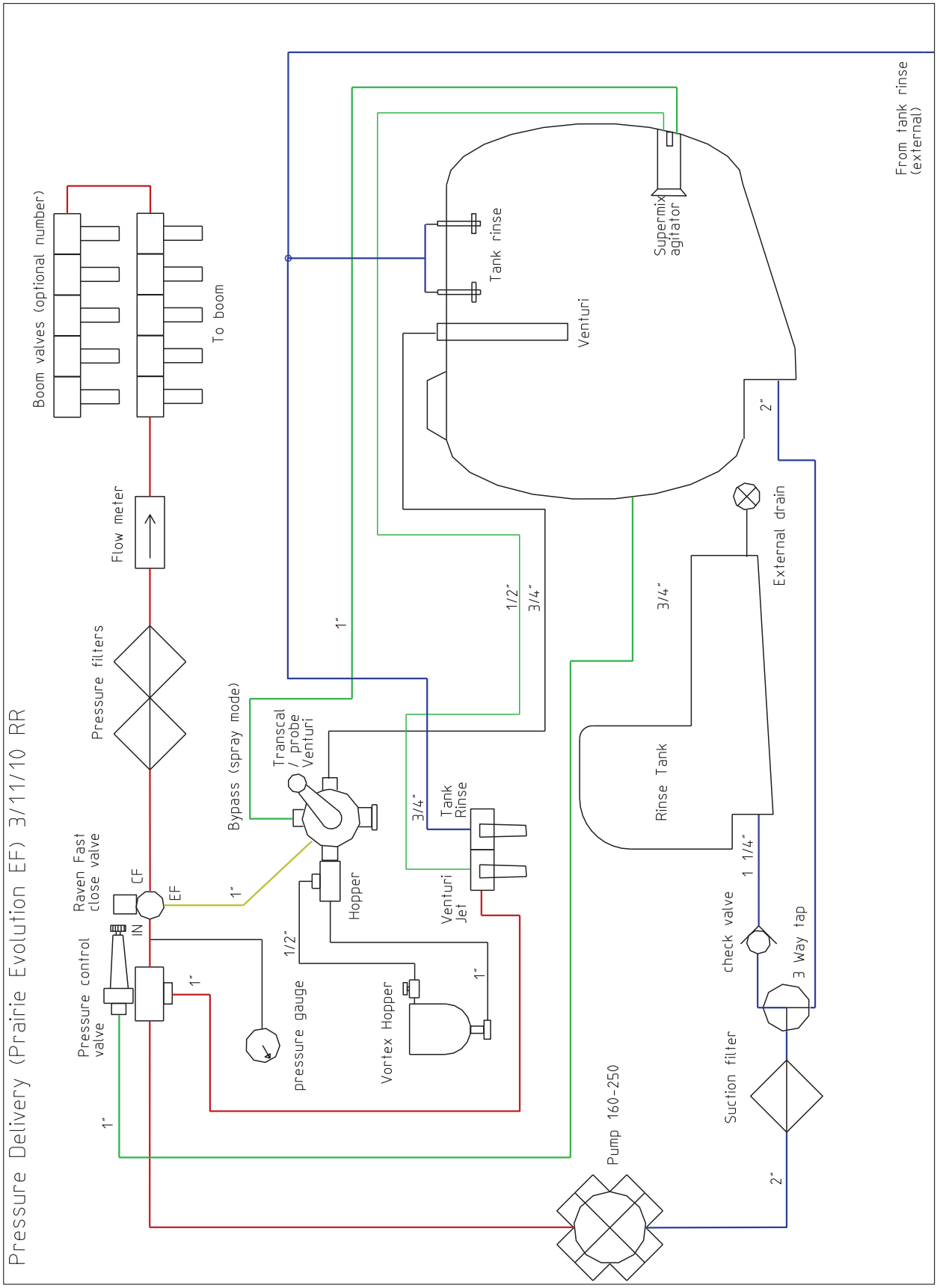
Pneumatic Layout Airbag with Rapidfire



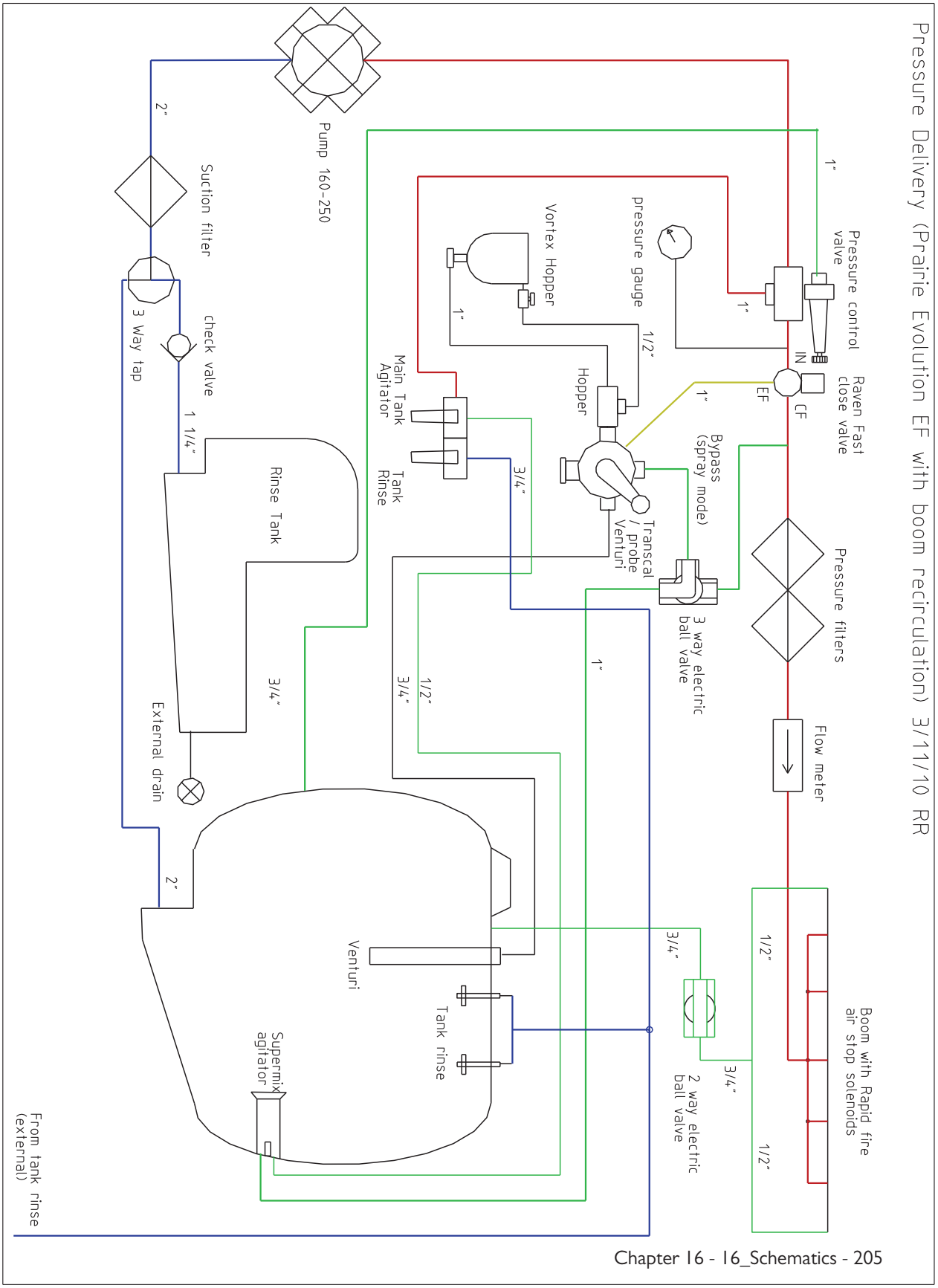
Pneumatic Layout Airbag-Foam Marker



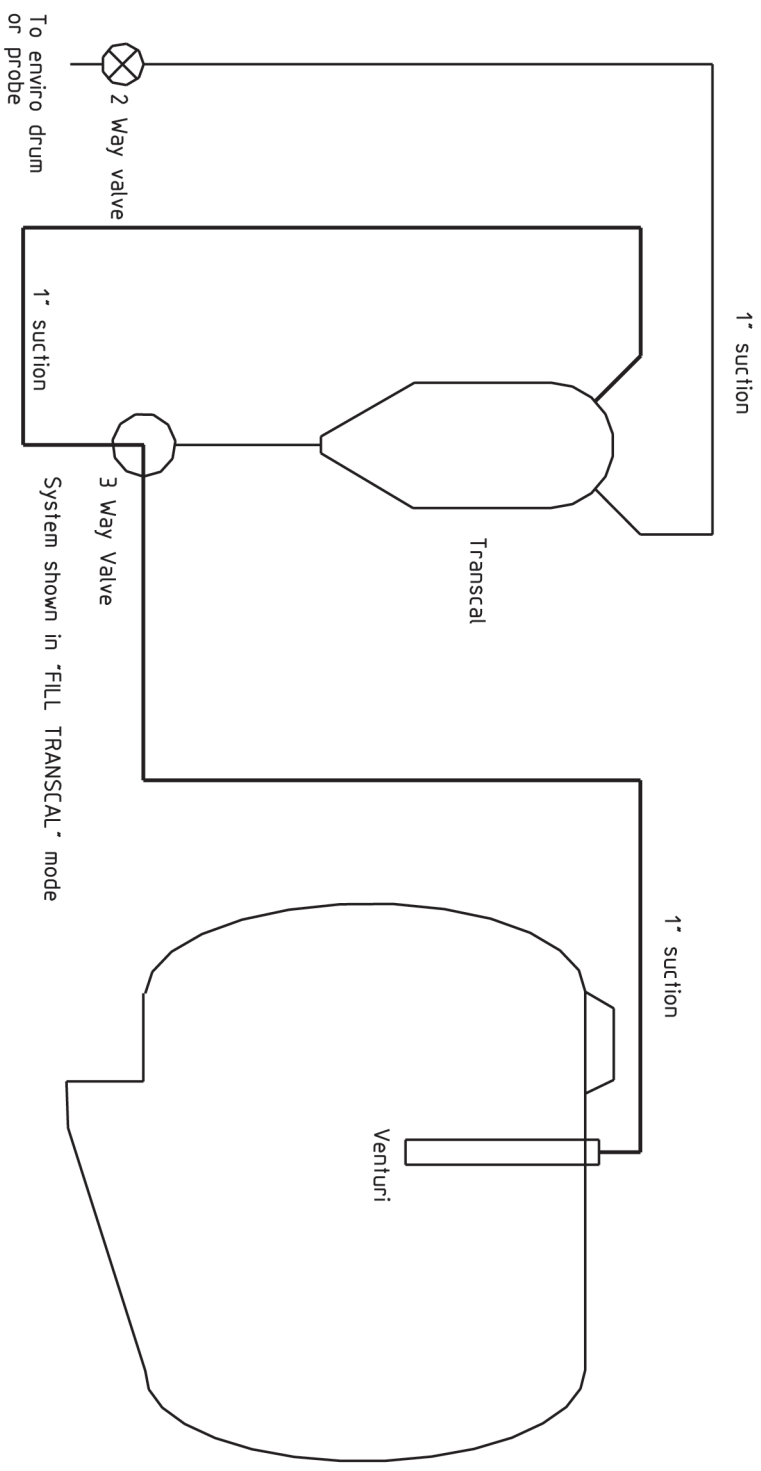
Pressure Schematic



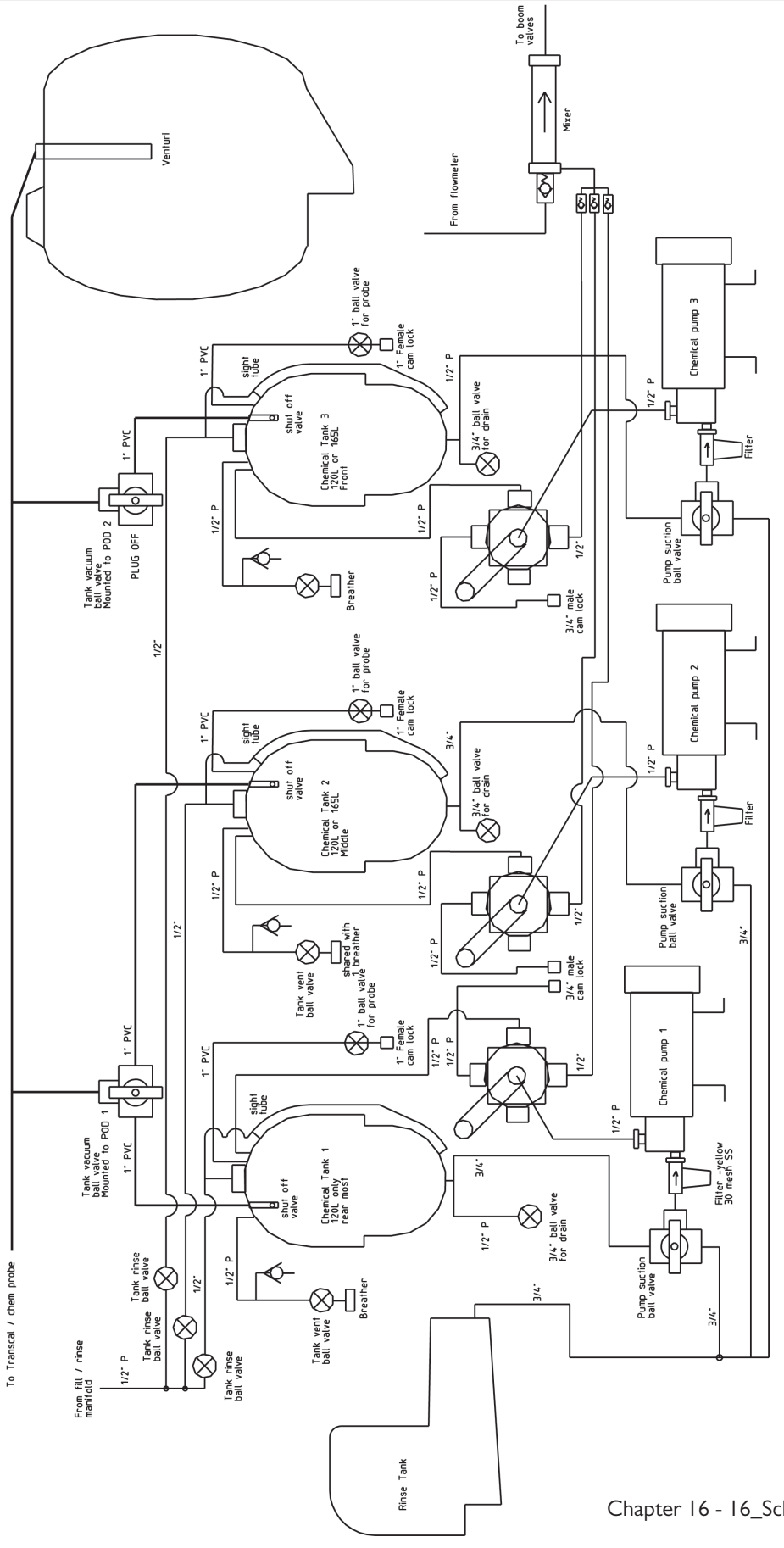
Rapidflow Schematic



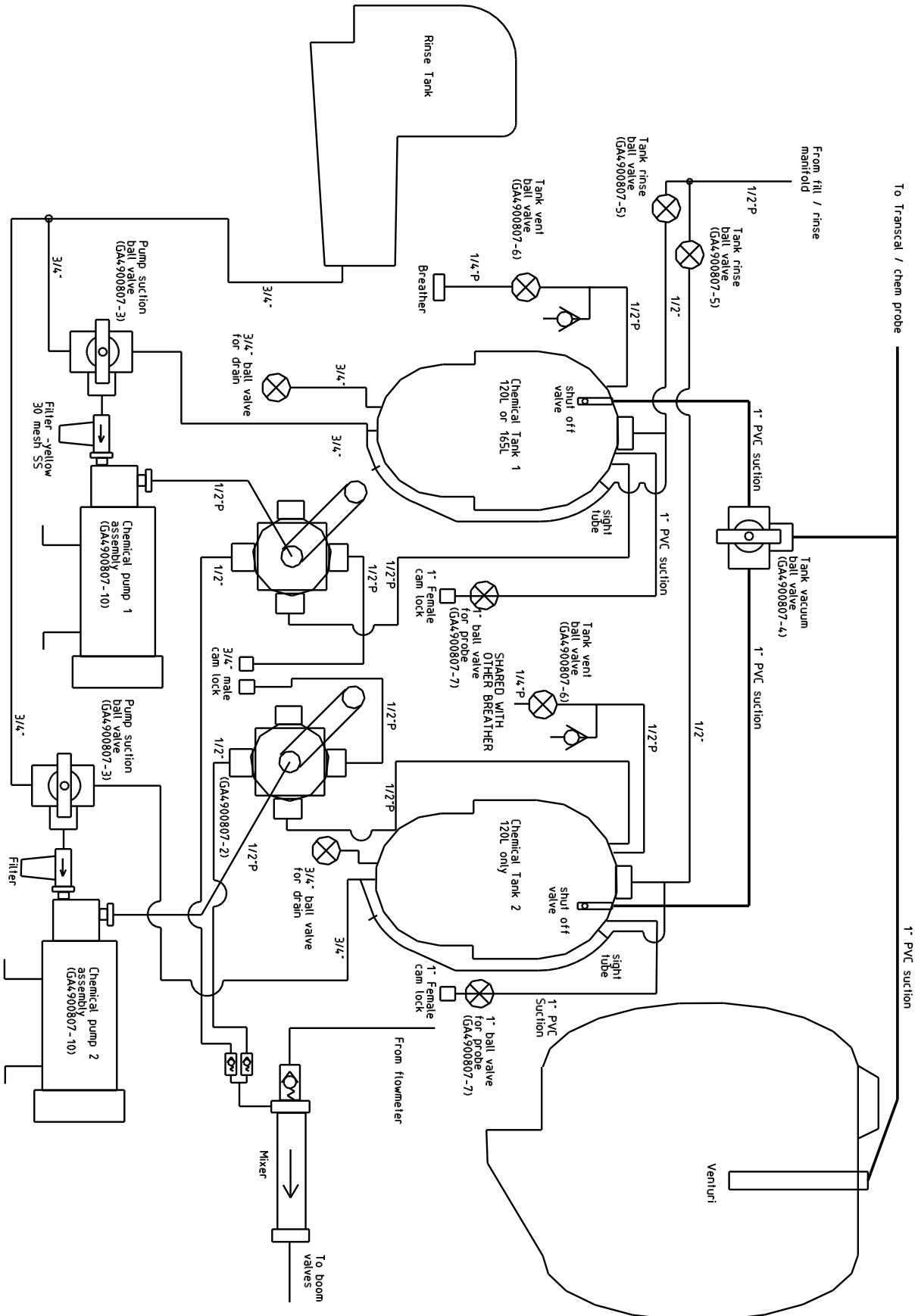
Transcal Schematic



DCI Schematic



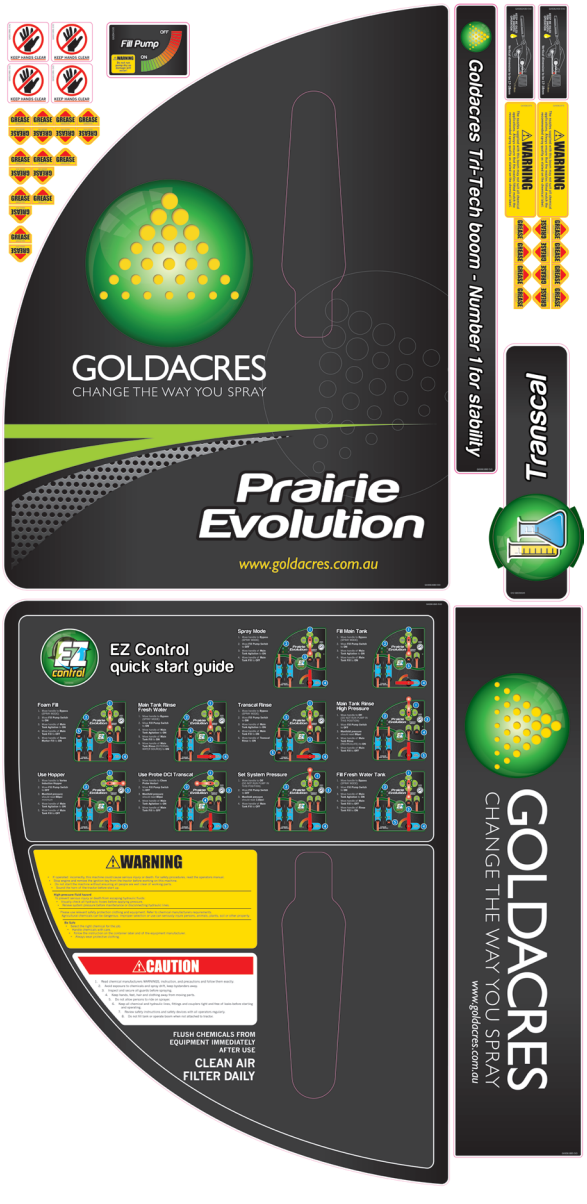
DCI Schematic



Chapter 17

DECALS

1



2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5063890	Decal Kit Prairie Evolution Sheet 1 Complete	1
2	GA5063891	Decal Kit Prairie Evolution Sheet 2 Complete	1

3

4

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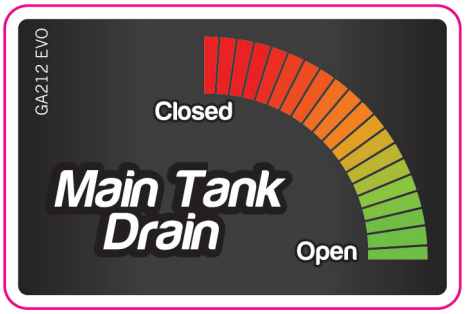


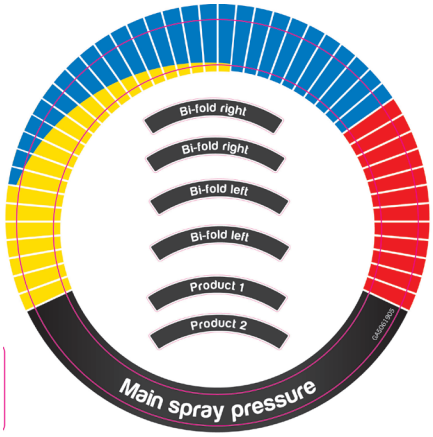
9

10

11

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	GA208EVO	Warning Hopper	1
4	GA209EVO	Danger/Caution	2
5	GA210EVO	Warning Platform	1
6	GA222EVO	Grease	57
7	GA212EVO	Main Tank Drain	1
8	GA5061900EVO	Spray Pressure Drain	2
9	GA5015991EVO	Keep Hands Clear	8
10	GA220EVO	Three Tier System	1
11	GA5013EVO	Danger/Stand Clear	2

12



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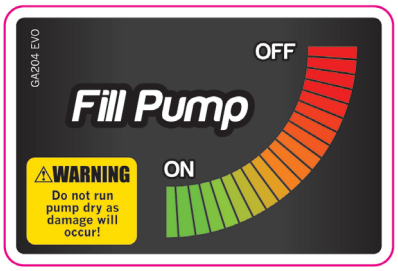

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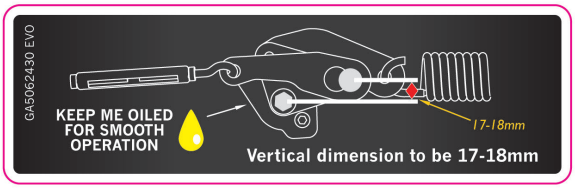

18

19

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	GA5061905	Main Spray Pressure	1
13	GA006EVO	Warning Check Wheel Nuts	2
14	GA5015971EVO	Drain Only	1
15	GA5062090EVO	Caution - Lower Steps	1
16	GA204EVO	Fill Pump	1
17	GA5062430EVO	3D Breakaway Adjustment	2
18	GA207EVO	Warning	1
19	GA5062456	Warning Crush Hazard	2

20

21

22

23

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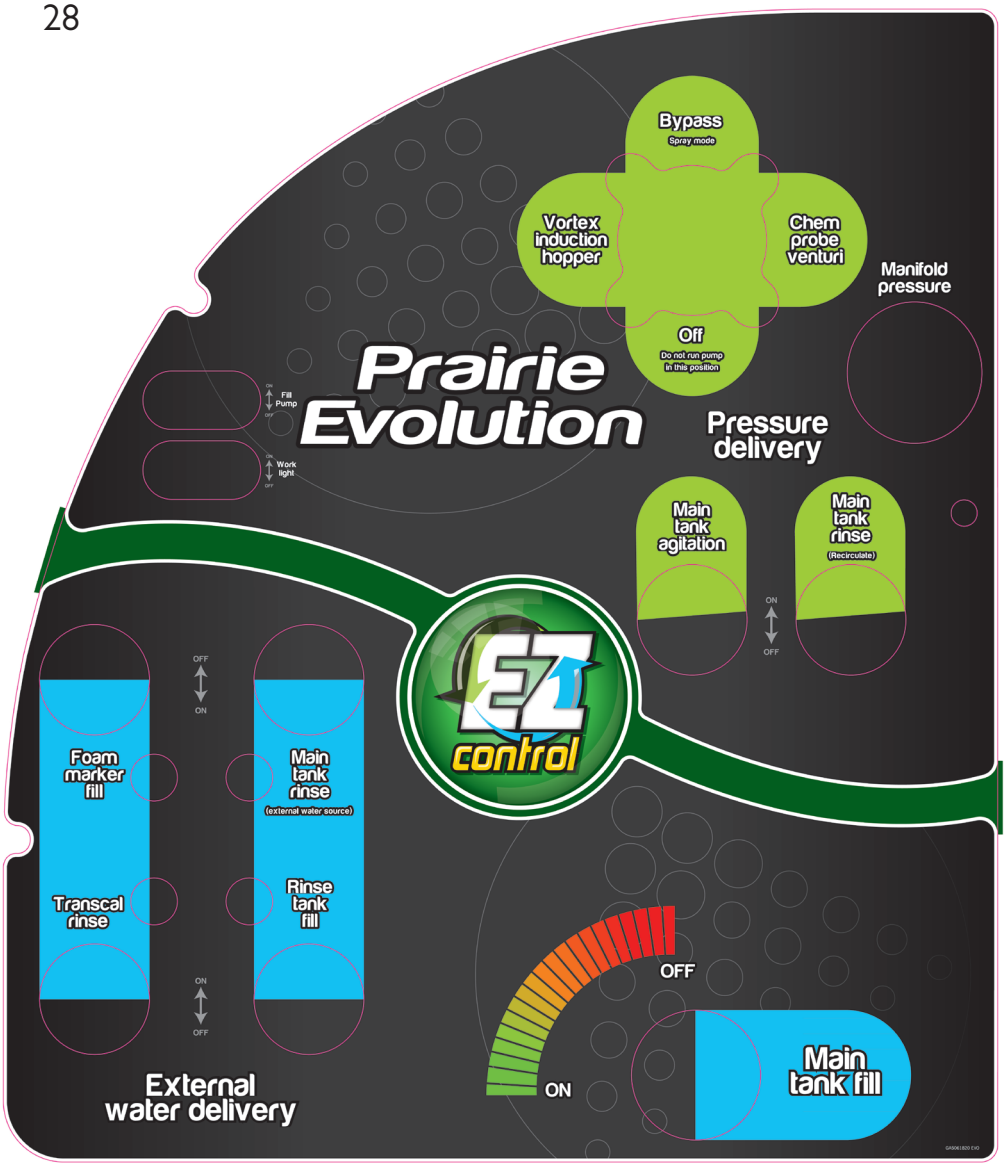
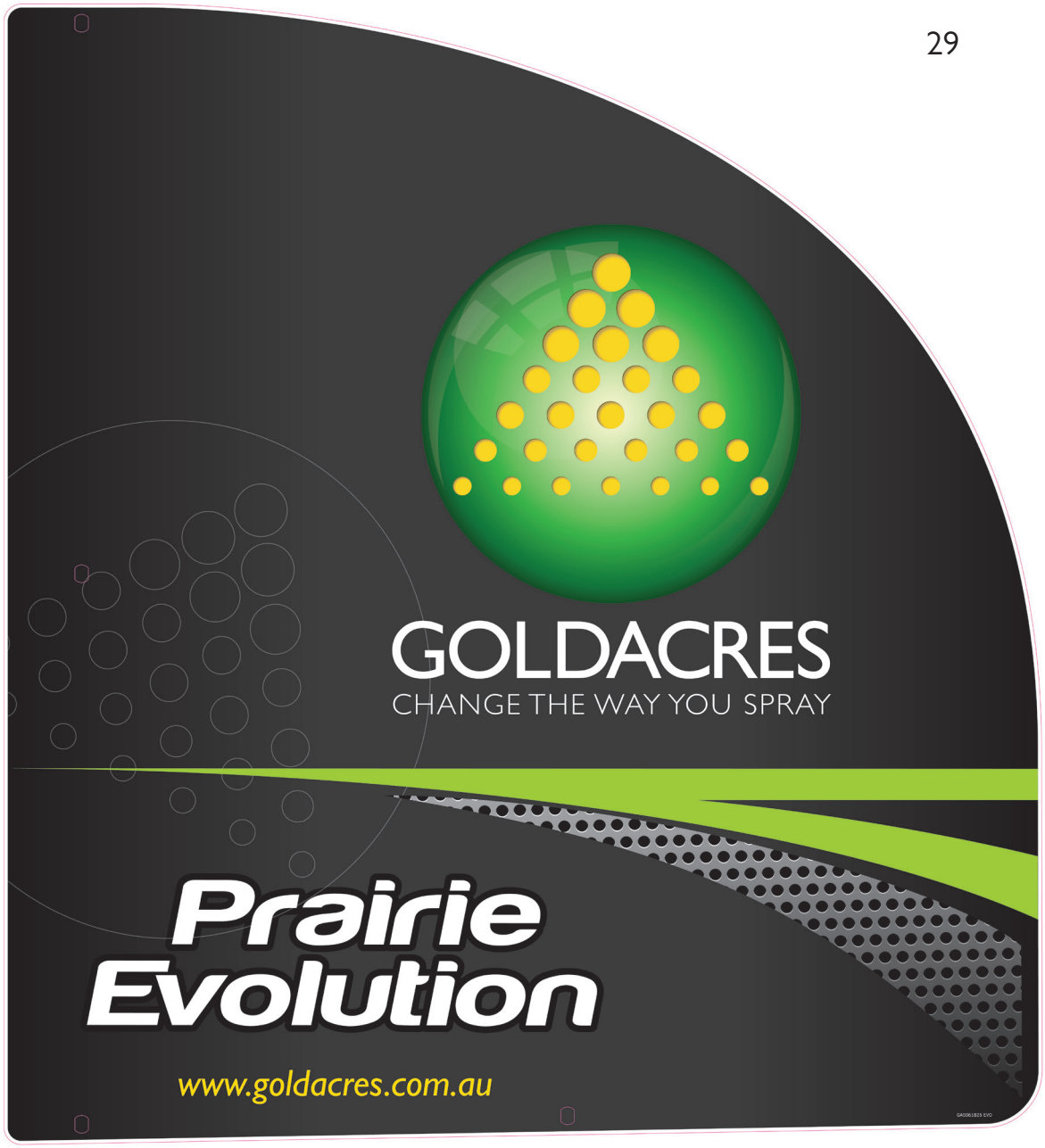
27

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
20	GA5062475	Flush Water Only	1
21	GA5062485EVO	Foam Marker Concentrate	1
22	GA5062085EVO	Transcal	1
23		Keep Me Oiled	2
24	GA5062095EVO	Vortex	1
25	GA5062870	Foam & Airbag Filter	1
26	GA5063370	Warning Nozzles	2
27	GA5062470	Foam Marker Water	1

28

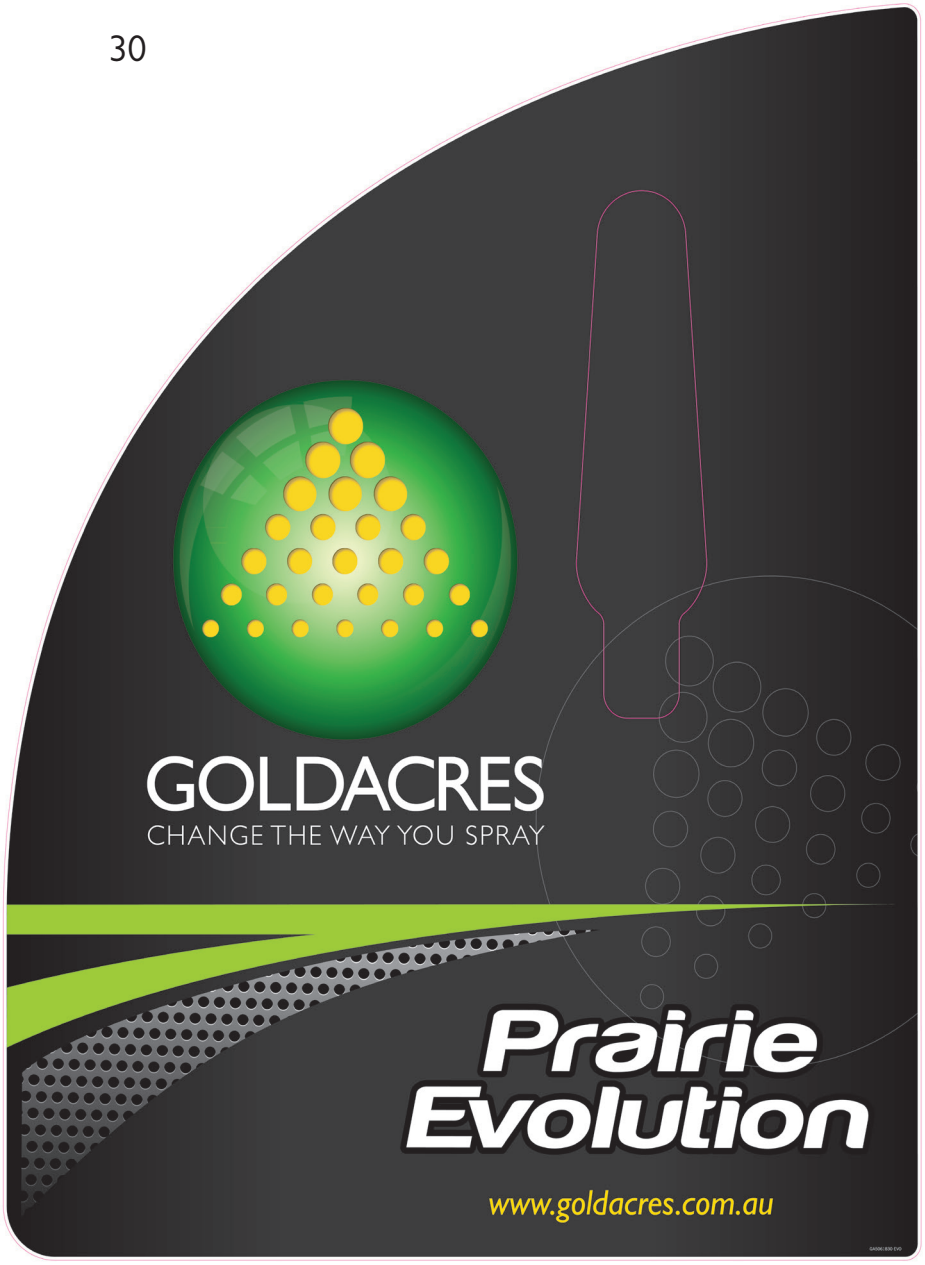


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
28	GA5061820	Pod Taps	1



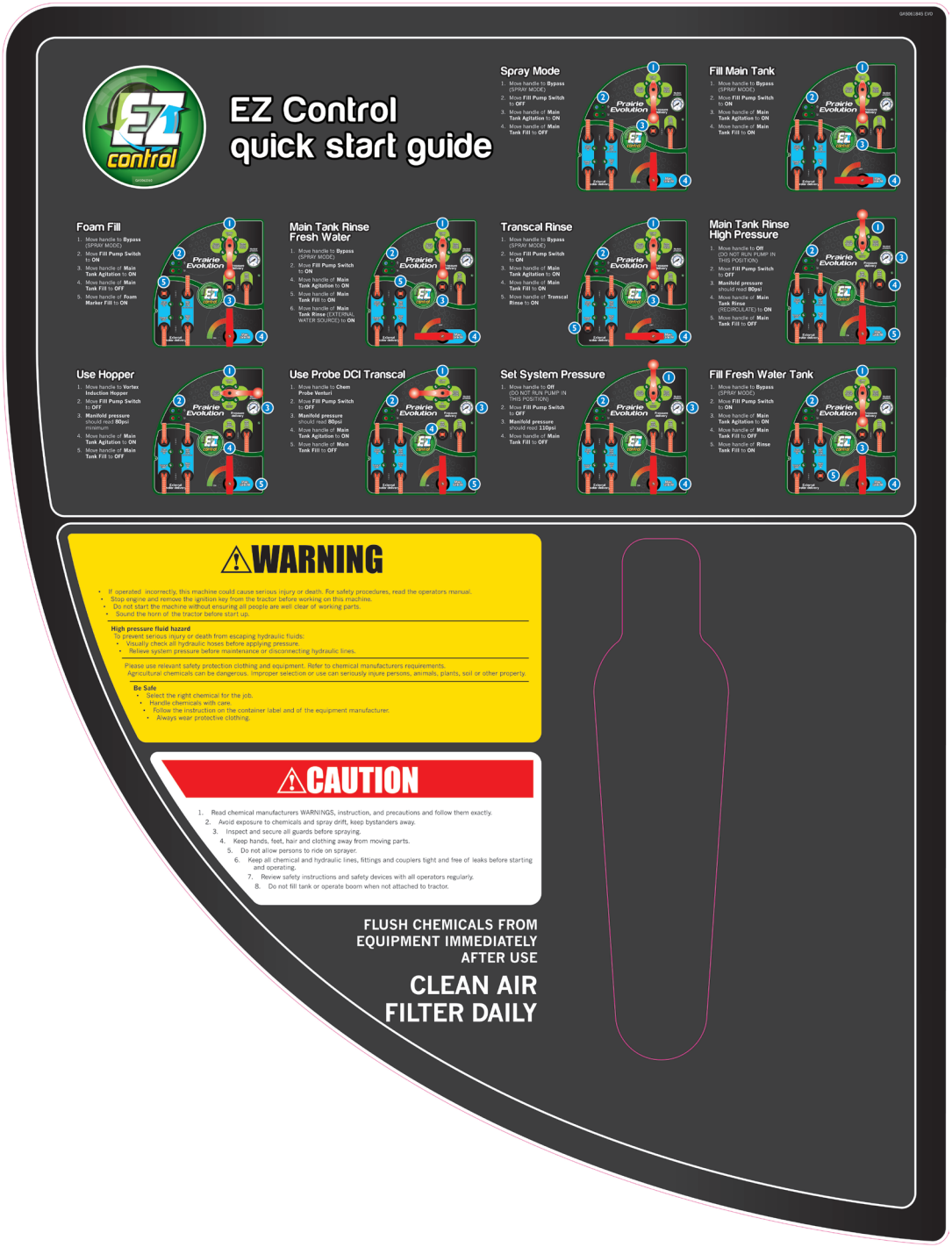
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
29	GA5061825	Right Hand Pod	1

30



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
30	GA5061830EVO	Left Hand Pod Outer	1

31

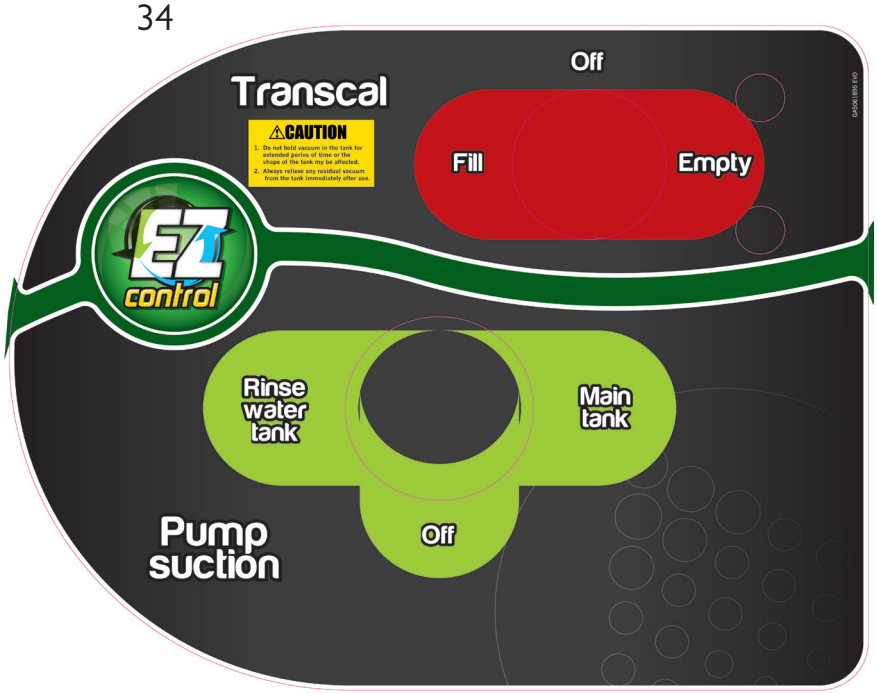


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
31	GA5061845	Prairie EVO Left Hand POD Door Inner	1

32

33

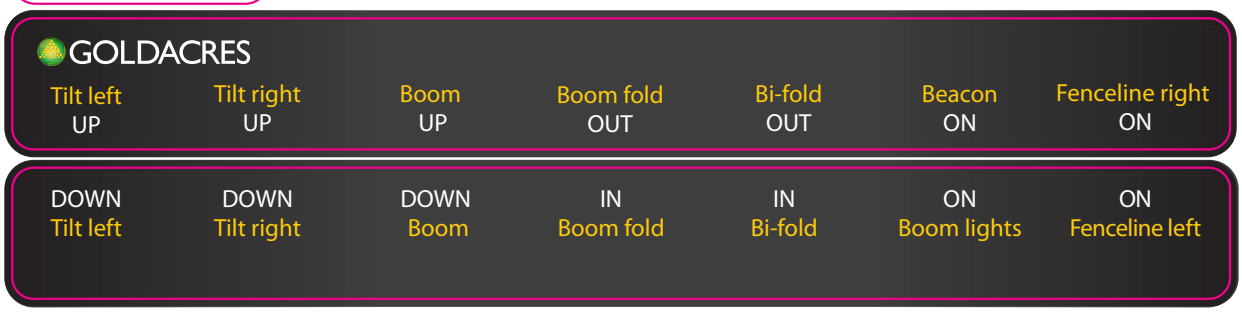
34



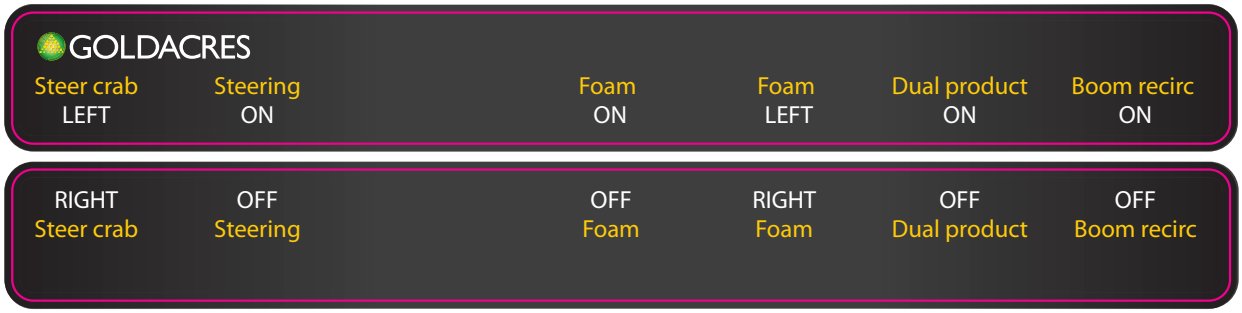
34

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
32	GA5061885	Goldacres	1
33	GA5061890EVO	Tri-Tech #1 for Boom	1
34	GA5061895EVO	Transcal	1
35	PEVO Tank - **** (ie: PEVO Tank - 6536)	Prairie Evolution Tank Decal	2

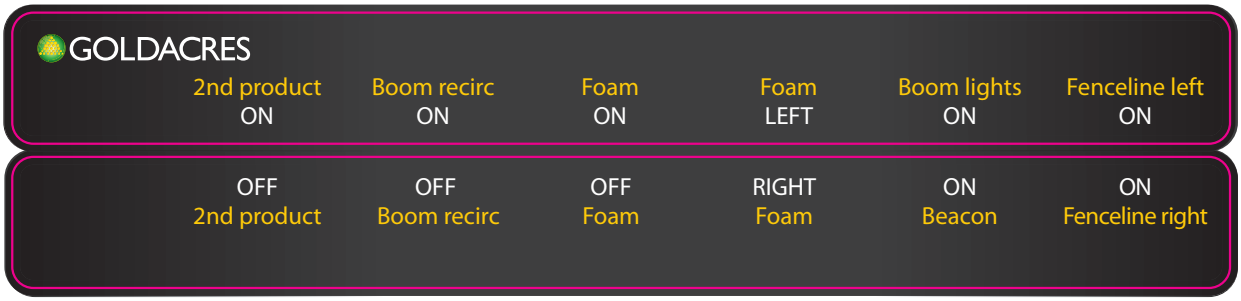
GOLDACRES
Switch Box - A
Part # GA4903710



GOLDACRES
Switch Box - B
Part # GA4903715



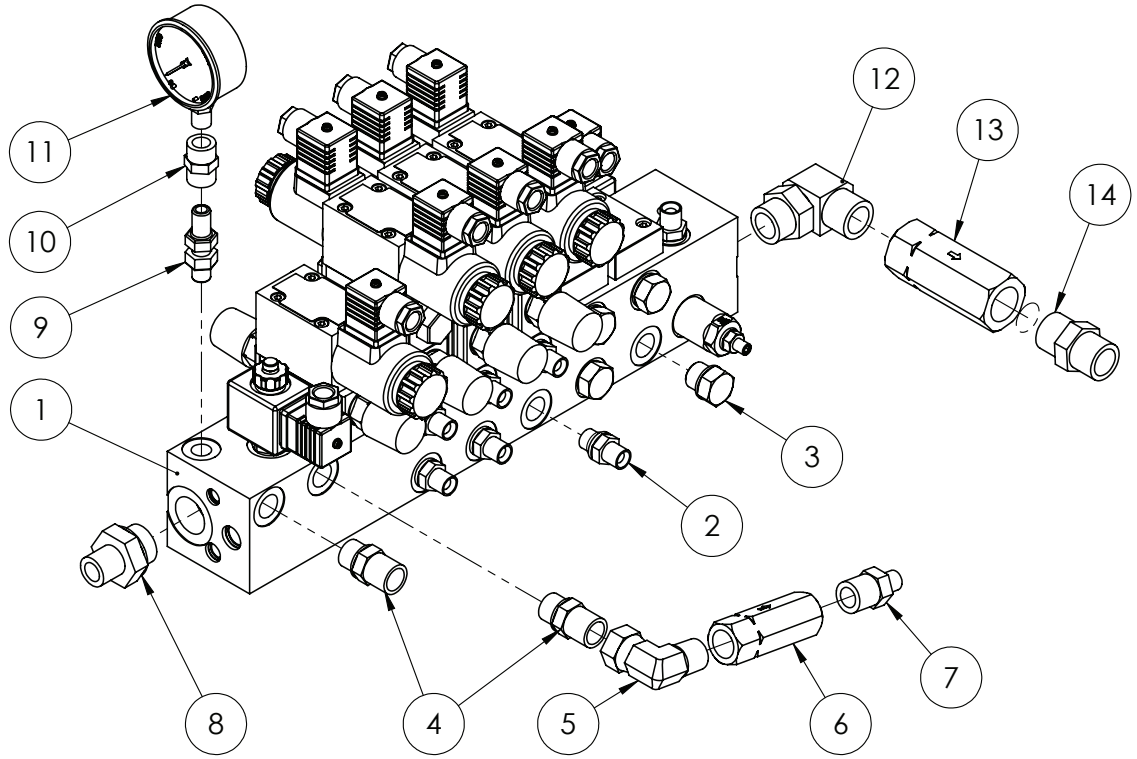
GOLDACRES
Switch Box - C
Part # GA4903720



Chapter 18

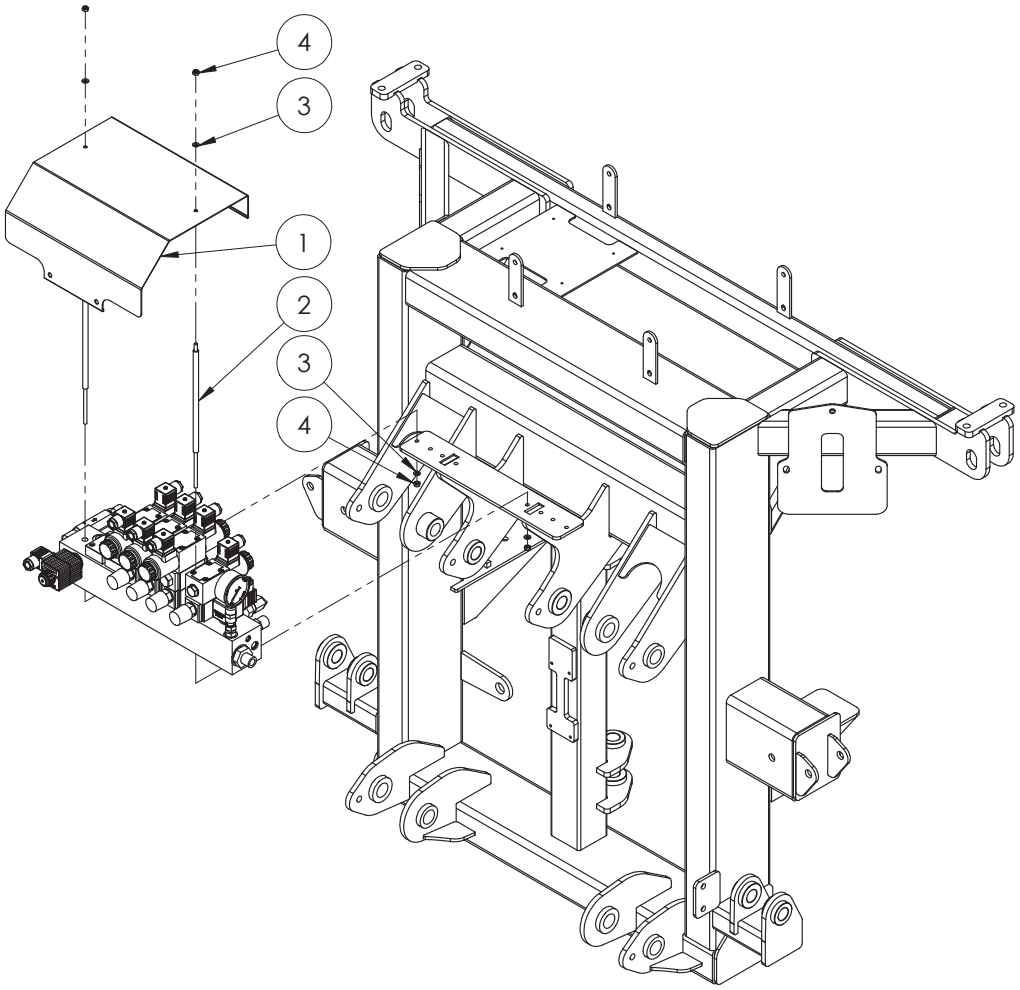
18_HYDRAULICS

Spool Block with Fittings



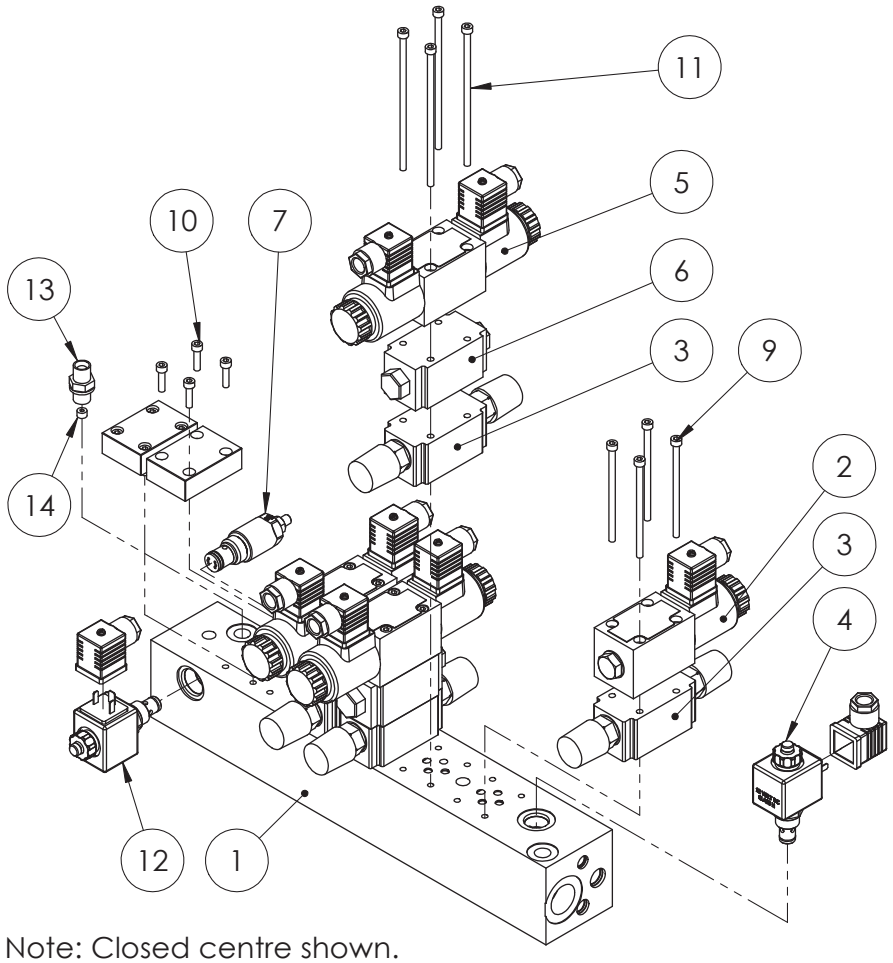
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047684	Manifold Assembly Option TWO Normally closed	1
2	S75-0404	1/4 BSPT male to 1/4 BSPP Hyd nipple	6
3	S73-06	3/8 BSPP Hyd Plug	4
4	S75-0806	1/2 BSPT 3/8 BSPP Hyd Nipple	2
5	S82-0808	1/2" Hydraulic Elbow	1
6	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
7	S27-0804	1/2" BSPT - 1/4" BSPT Straight Hydraulic Nipple	1
8	S75-0812	Nipple - 1/2" x 3/4" nipple C/W o-ring	1
9	S44-0404	Nipple 1/4 x 1/4 with nut	1
10	S26-0404	1/4" BSPP Socket	1
11	GA5013423	Small Face Pressure Gauge 3500psi	1
12	S77-1212	3/4 BSPT - 3/4 BSPP 90 Hyd Elbow	1
13	GA5002421	3/4 BSPP Check Valve	1
14	S27-1212	Adapter Straight - 3/4" male BSPT to 3/4" male BSPT	1

Spool Valve Mounting Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	COMP0013	Solenoid cover	1
2	MACH0035	Retaining bolt for solenoid cover	2
3	GA5004437	M6 SS Washer	4
4	GA5048115	Nut nyloc M6	4

Manifold Assembly



Note: Closed centre shown.
For open centre replace GA5047647 with GA5047646 and S75-0404 1/4 BSPT - 1/4 BSPP straight hyd nipple and GA5047629 (0.6mm load sense orifice)with S73-04 1/4BSPP hyd plug

GA5047615 O-Ring retaining plate

GA5047627 Seal replacement kit
(Kit includes 4 small and 2 large O-rings)

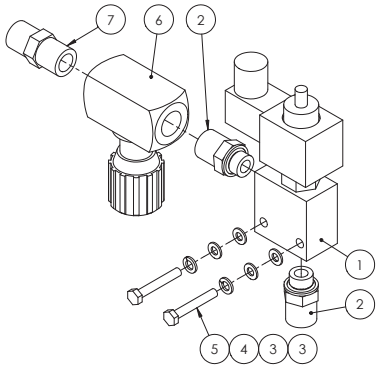
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047500	Spool valve manifold 6 ststion bare	1
2	GA5047722	VALVE HYD SINGLE SOLENOID 12VDC	1
3	GA5047581	VALVE-HYD-FLOW CTRL-NG6-A+B	4
4	GA5047341	VALVE-CART-HYD-SOL-POPPET-2/2-8-2 CAV-12VDC-WITHOUT MANUAL OVERIDE	1
5	GA5017387	12v j-spool	3
6	GA5017335	Modular check valve	3
7	GA5047645	Hydraulic Relief Valve To Suit C Top Unloader VSPN-10A	1
8	GA5047335	Blanking plate	1

Manifold Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA5067050	Bolt Socket head cap screw M5x90	4
10	GA5020520	M5 x 20mm SHCS	8
11	GA5048570	M5 x 130mm SHCS	12
12	GA5047647	VALVE-CART-HYD-SOL-2/2-NC-10/2-12VDC Closed Centre	1
13	S75-0404	1/4 BSPT male to 1/4 BSPP Hyd nipple	1
14	GA5047629	Plug Orifice 1/16NPT x .6mm	1

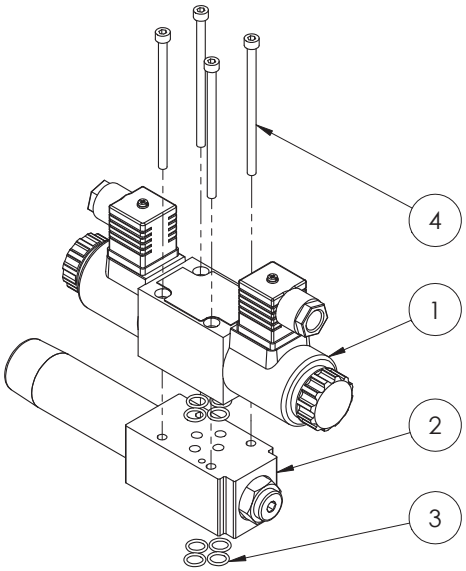
Complete Spool Valve Blocks
Note: Spool valve units come with hydraulic stacks listed but no external fittings
GA5047681 Manifold assembly-Base option-normally closed
GA5047682 Manifold assembly-Base option normally closed
GA5047683 Manifold assembly-option 1. Normally closed 1 boom, 1 fold, 2 tilt, 1 Bi-fold, 1 unloader- Closed 5 station
GA5047684 Manifold assembly-option 2. Normally closed 1 boom, 1 fold, 2 tilt, 2 Blanks, 1 unloader- Closed 5 station
GA5047685 Manifold assembly-option 3. Normally open 1 boom, 1 fold, 2 tilt, 2 Blanks, 1 unloader- Open 5 station
GA5047686 Manifold assembly-option 4. Normally closed 1 boom, 1 fold, 4 Blanks, 1 unloader- Closed 5 station
GA5047687 Manifold assembly-option 5. Normally closed 1 boom, 1 fold, 1 Bi-fold, 3 Blank, 1 unloader- Closed 5 station

Boom Lower Solenoid



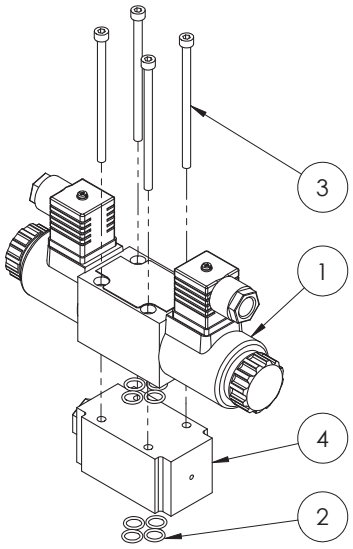
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047344	Hyd Soleniod boom lower	1
2	S75-0806	1/2 BSPT 3/8 BSPP Hyd Nipple	2
3	GA5004437	M6 SS Washer	4
4	GA5004447	M6 Spring washer SS	2
5	GA5004081	M6x40 bolt	2
6	GA5017393	Valve speed control 1/2 offset	1
7	S27-0808	0808 BSPTM BSPMT nipple	1

Bi Fold Hydraulic Stack



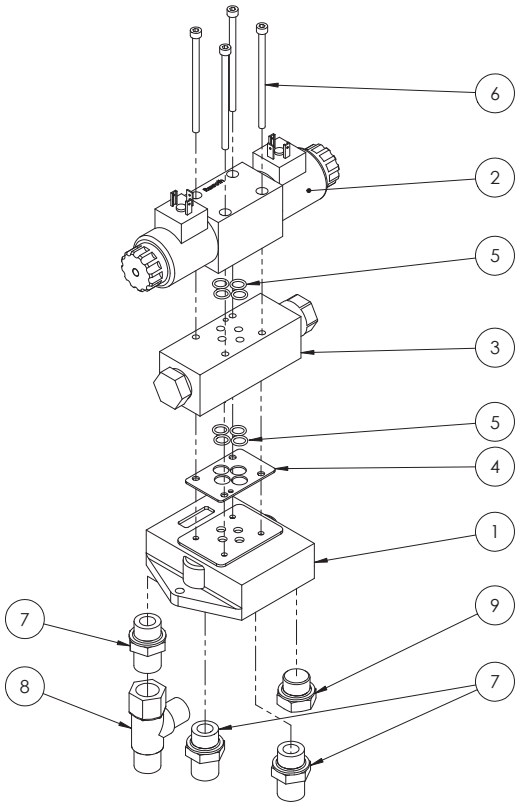
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5017387	12v j-spool	1
2	GA5017373	Pressure reducing valve	1
3	GA5047627	Seal kit -viton t/s c top (contains 4 o-rings)	2
4	GA5067050	Bolt Socket head cap screw M5x90	4

Smart Steer Hydraulic Stack



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047666	12v j-spool Proportional soleniod (all ports blocked)	1
2	GA5047627	Seal kit -viton t/s c top (contains 4 o-rings)	2
3	GA5067050	Bolt Socket head cap screw M5x90	4
4	GA5047661	Load sense check valve	1

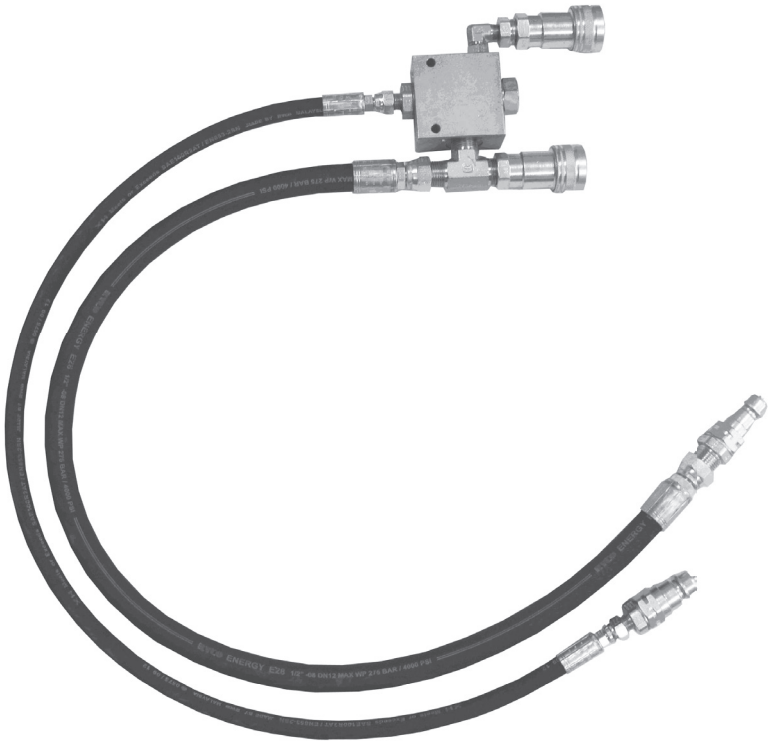
Fill Pump Hydraulic Manifold Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5016139	Base plate 1/2"	1
2	GA5017387	J-spool solenoid (with orings) 12v	1
3	GA5047583	Valve pressure flow comp stackable	1
4	GA5047615	Plate Z2FS6 O-RING	1
5	GA5047627	Seal kit -viton t/s c top (contains 4 o-rings)	2
6	GA5067050	Bolt Socket head cap screw M5x90	4
7	S75-0808	1/2" BSPP x 1/2" BSPT Hydraulic Fitting w/ O-Ring & Washer	3
8	S167-080808	TEE 1/2 BSPT M x M F	1
9	S73-08 08	Plug 1/2”	1

Continued over page

Load Sense Turbo Valve

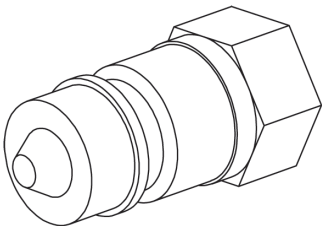


GA4902590 Complete Assembly

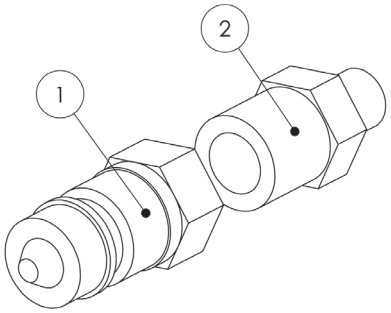
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	GA5047677	Load sense turbo valve	1
	R81-08M	08 BSPFF Male Tip/Poppet	2
	R81-08P	08 BSPPF FQRC/Poppet/Push Pull	2
	S75-0408	0408 Nipple	2
	S50-080808	080808 BSPTM BSPTM Tee	1
	T202-0808	0808 BSPP female	2
	T202-0404	0404 BSPP female	2
	S75-0808	0808 Nipple BSPTM BSPPOM	1
	S77-0404	Elbow 0404 90° BSPTM BSPPOM	1
	S24-0804	Bush reducing BSPT x BSPT	1
	868AA012000WOORL	Hydraulic hose 1/2” - 1m	1
	GA5049695	Hydraulic hose 1/4” - 1m	1

Quick Release Couplings

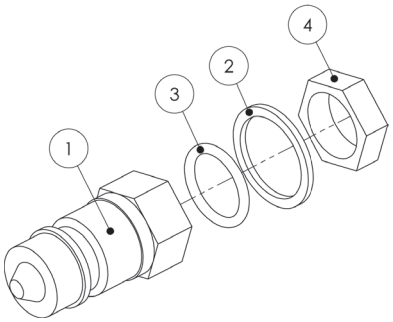
1/2" Hydraulic Lines		
ITEM	PART NO	DESCRIPTION
1	R81-08M	1/2" BSPP Female Push/Pull Quick Release Coupling



1/4" Hydraulic Lines		
ITEM	PART NO	DESCRIPTION
1	R81-08M	1/2" BSPP Female Push/Pull Quick Release Coupling
2	S27-0804	1/2" BSPT - 1/4" BSPT Straight Hydraulic Nipple



Hydraulic Pump Lines		
ITEM	PART NO	DESCRIPTION
1	R81-08M	1/2" BSPP Female Push/Pull Quick Release Coupling
2	36B-08	1/2" Retaining Washer
3	RO-BP08	1/2" Hydraulic O-Ring
4	35B-08	1/2" BSPP Lock Nut

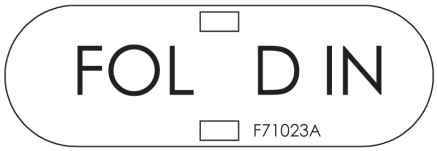


Note: Plastic Cover for when fittings are not in use is available Part No: GA5052365

Hydraulic Hoses

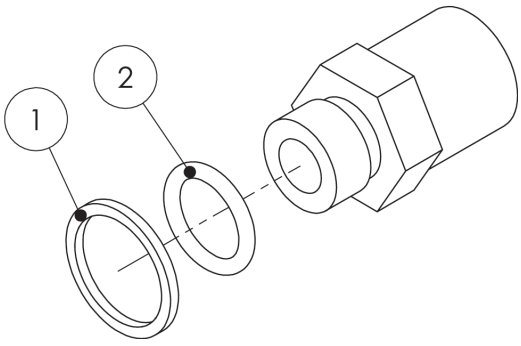
PART NO	DESCRIPTION
GA5067925	1/4" Hydraulic Hose, Tractor to fold cylinders
GA5067930	1/2" Hydraulic Hose, Tractor to Boom Lower Solenoid
GA5067940	1/2" Hydraulic Hose, Accumulator manifold to lift cylinders
GA5067945	1/4" Hydraulic Hose, Tractor to tilt cylinders

Hose ID Tags



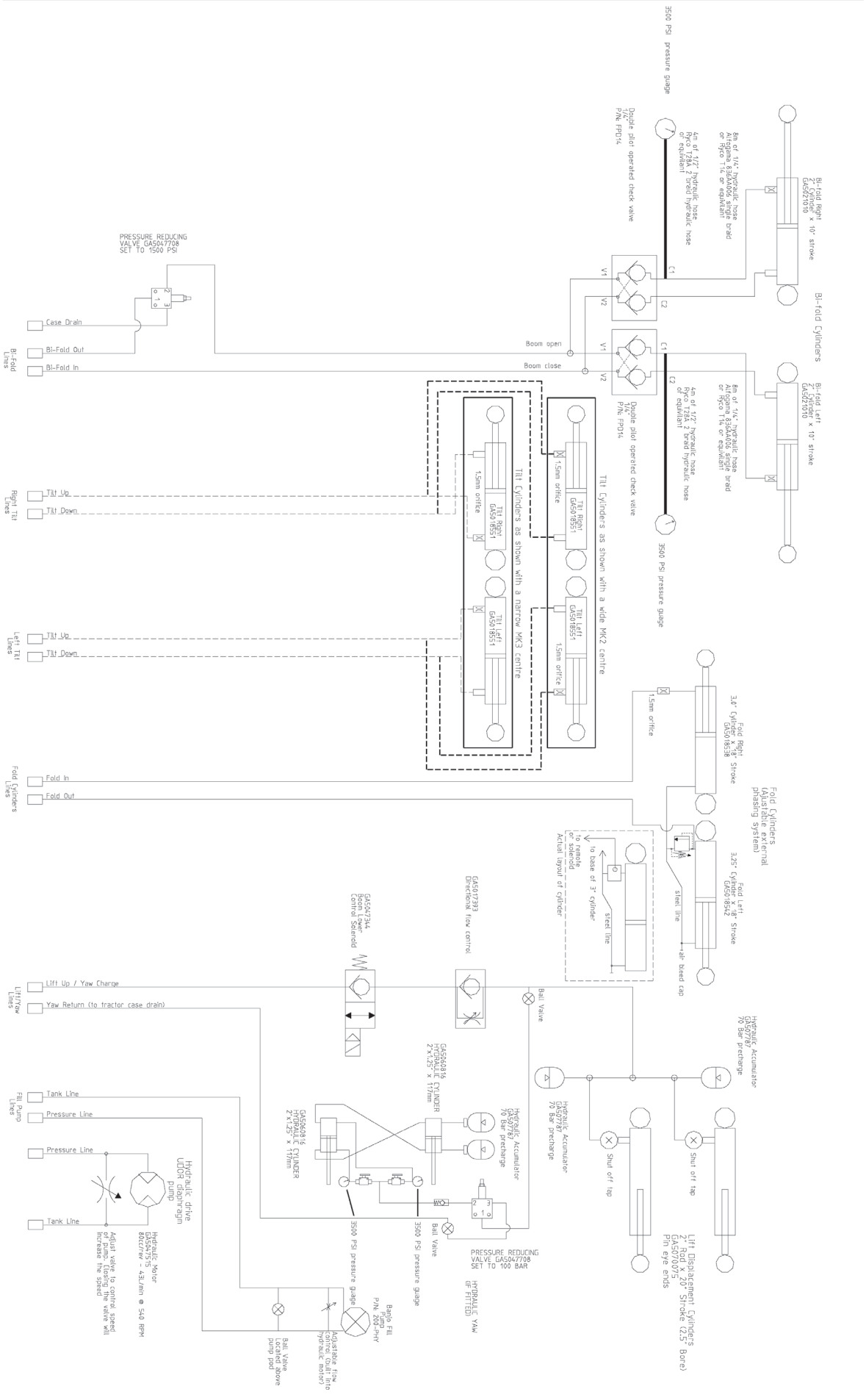
PART NO	DESCRIPTION
F71023A	Fold In Tag
F71024A	Fold Out Tag
F71025A	Boom Raise Lower Tag
F70134A	Tilt Left Tag
F70135A	Tilt Right Tag
F71018A	Bi-Fold In Tag
F71019A	Bi-Fold Out Tag
F71020A	Pressure Tag
F71021A	Tank Tag
F71022A	Load Sense Tag
F71026A	Brakes Tag

Hydraulic O-Rings and Retaining Washers

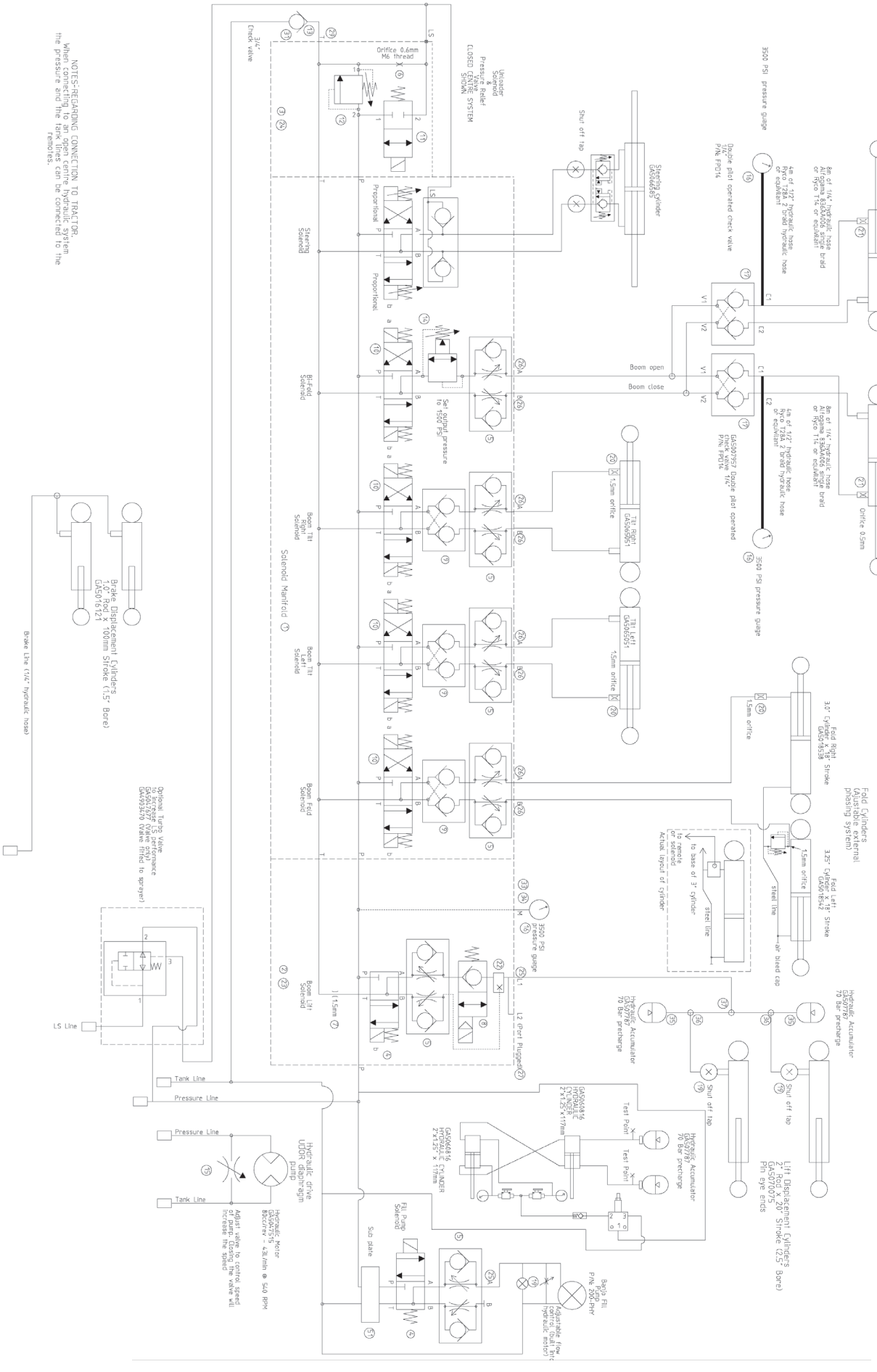


ITEM	PART NO	DESCRIPTION
1	36B-04	1/4” Retaining Washer
	36B-06	3/8” Retaining Washer
	36B-08	1/2” Retaining Washer
	36B-12	3/4” Retaining Washer
2	RO-BP04	1/4” Hydraulic O-Ring
	RO-BP06	3/8” Hydraulic O-Ring
	RO-BP08	1/2” Hydraulic O-Ring
	RO-BP12	3/4” Hydraulic O-Ring

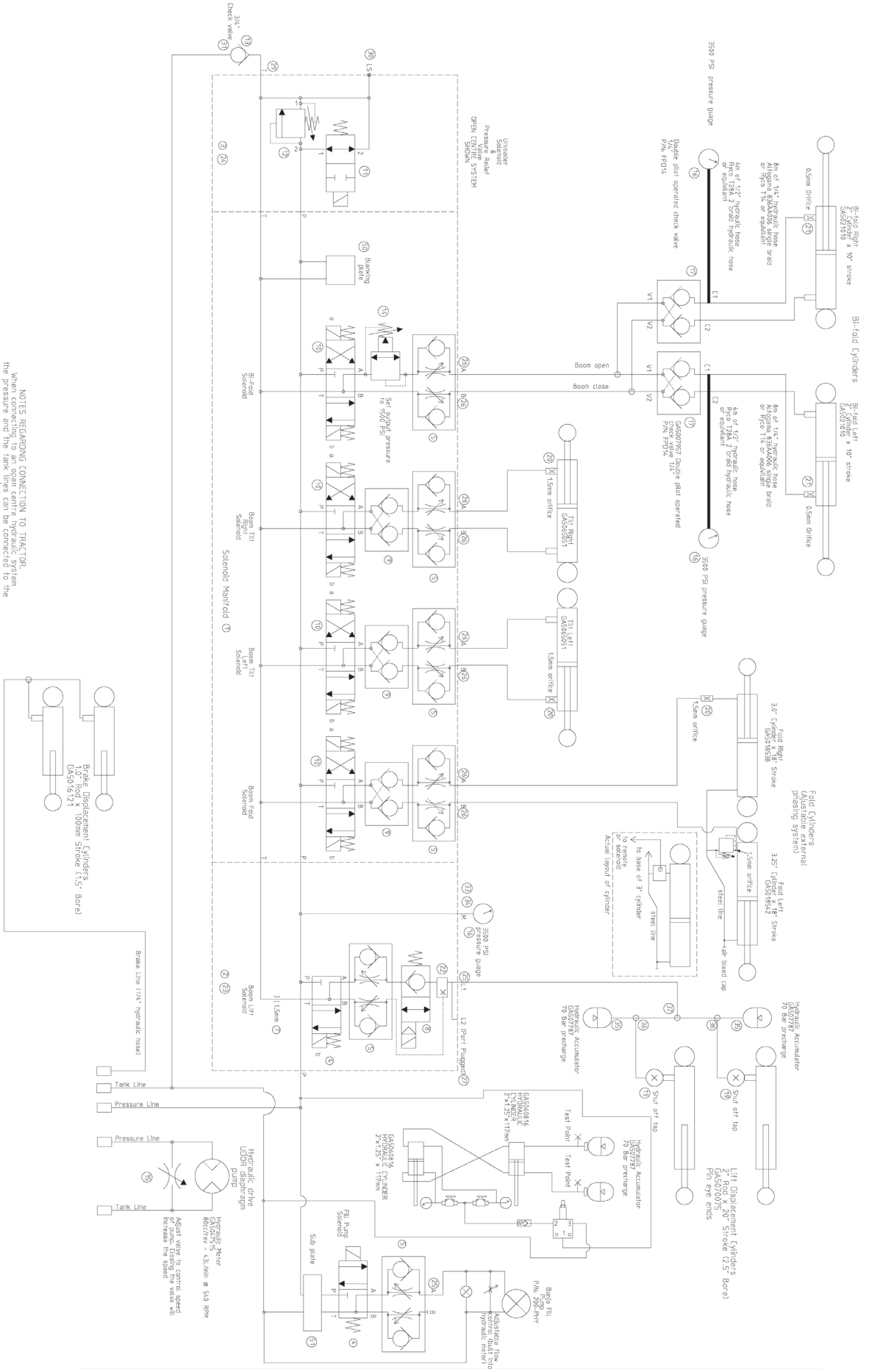
Hydraulic schematic - No spool valves



Hydraulic schematic - with spool valves closed centre



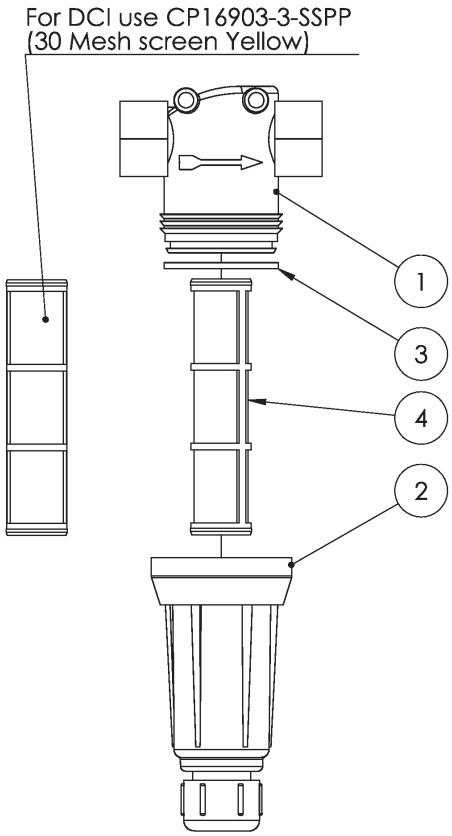
Hydraulic schematic - with spool valves open centre



Chapter 19

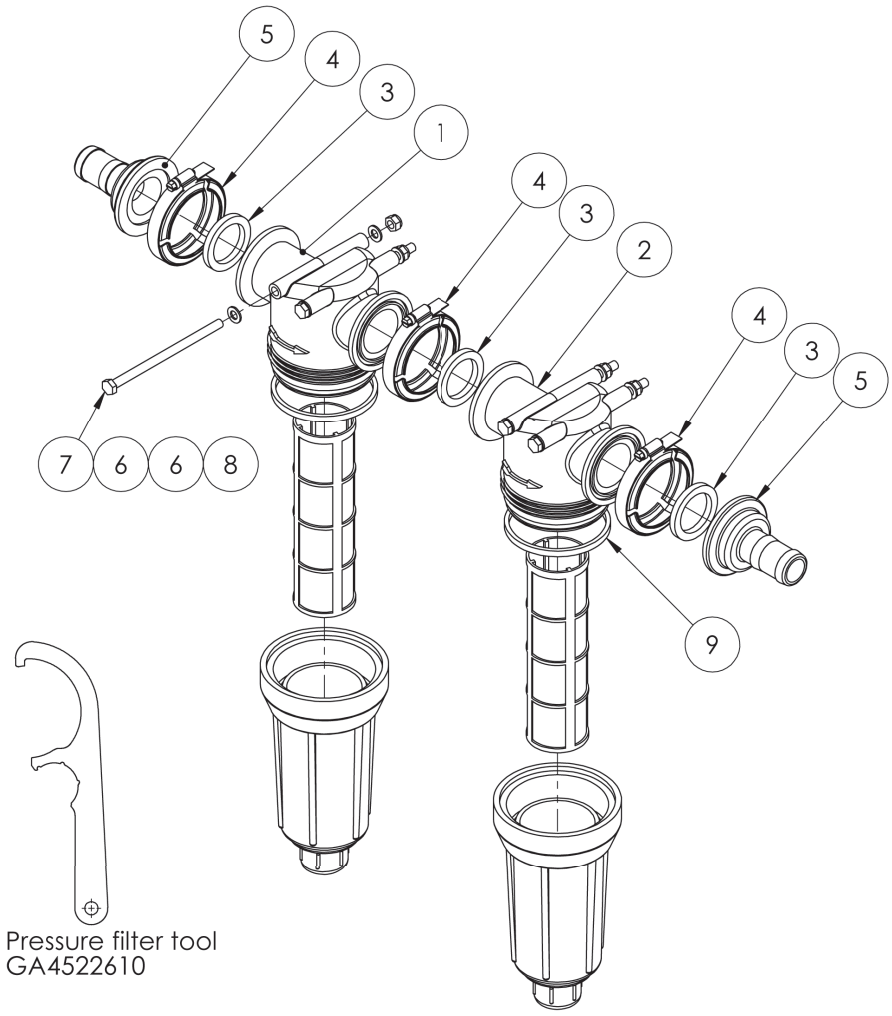
19_FILTRATION_HOSE

3/4 BSP Filter with 200 mesh screen



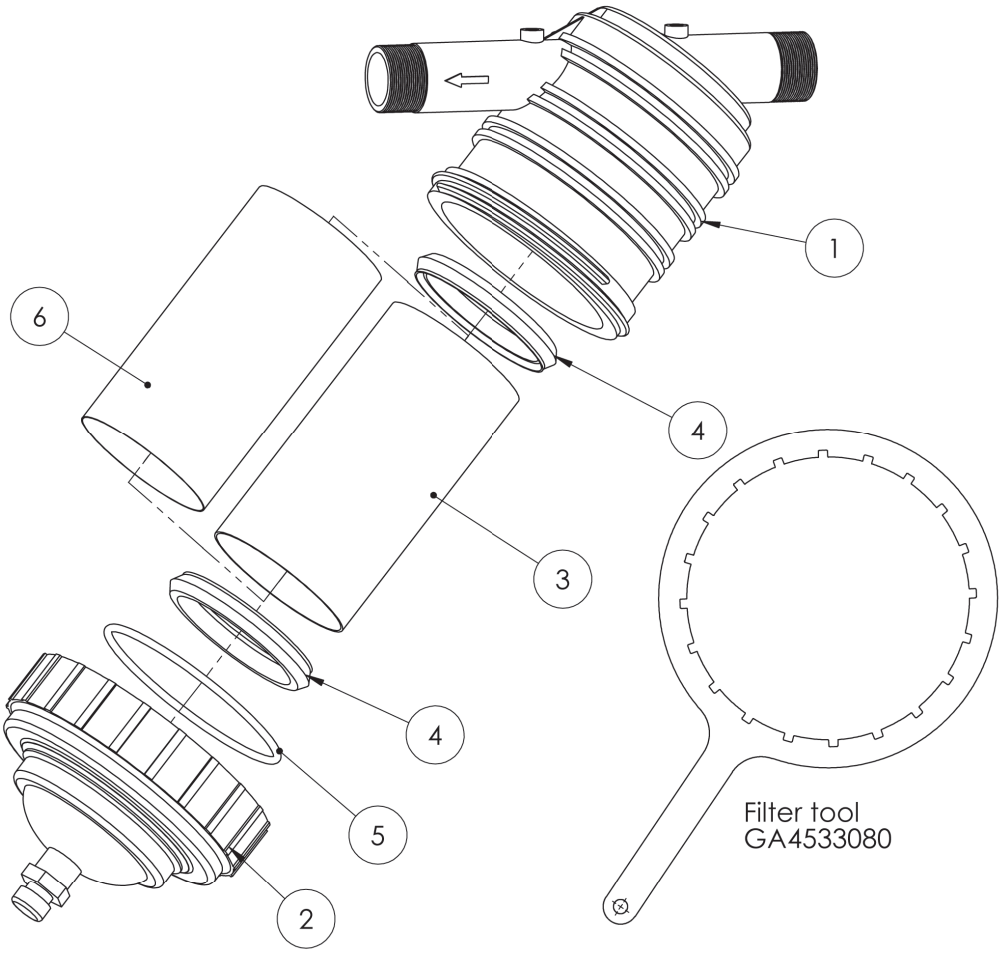
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CPB50492-3/4-PP	AAB126 Filter body	1
2	CPB50493-PP	AAB126 filter bowl	1
3	CP50494	AAB126 Filter bowl o-ring (square)	1
4	CP16903-7-SSPP	200 Mesh Screen for foam marker (Orange)	1

Pressure Filter Assembly



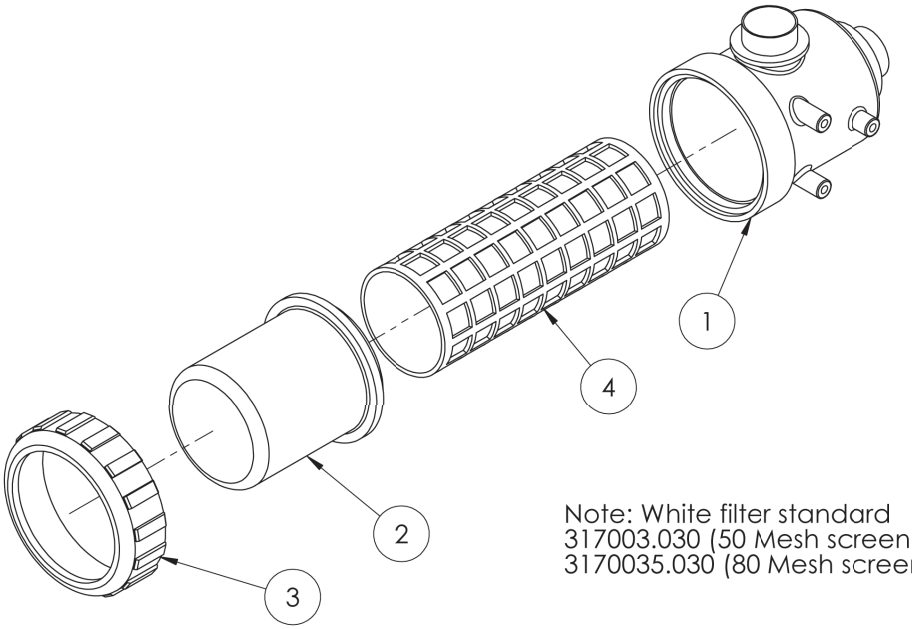
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AAB126ML-F75-80	Flange filter with 80 Mesh screen	1
	CP15941-4-SSPP	80 Mesh Screen (Blue)	1
2	AAB126ML-F75-100	Flange filter with 100 Mesh screen	1
	CP15941-5-SSPP	100 Mesh Screen (Green)	1
3	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT150	3
4	FC200	Screw clamp	3
5	M200125BRB	1 1/4" Hose barb to flange	2
6	GA5004883	Washer 8mm SS	8
7	GA5011503	M8 x 140mm Bolt	4
8	GA5004917	M8 Nyloc Nut	4
9	CP48656	Pressure Filter bowl o-ring (square)	2

2” Fill Filter with 120 mesh screen



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C00002066	Filter housing	1
2	C00201031	Filter bowl	1
3	C00100064	30 mesh screen	1
4	G00000025	Filter seal	2
5	G00001170	Filter O ring	1
6	R00201059	120 mesh screen	1

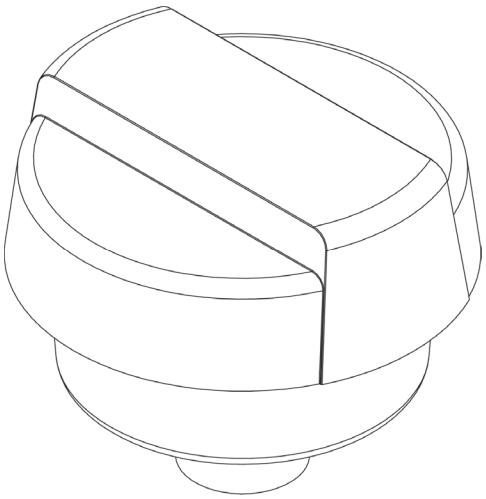
2” Suction Filter

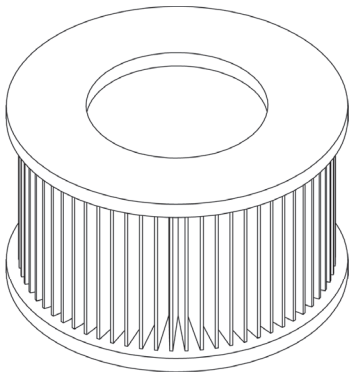


Note: White filter standard
317003.030 (50 Mesh screen Blue)
3170035.030 (80 Mesh screen Grey)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	316070.010	317 filter body	1
2	317000.020	317 filter bowl	1
3	316000.040	317 filter nut	1
4	317002.030	32 Mesh Screen (White)	1

Air Filter

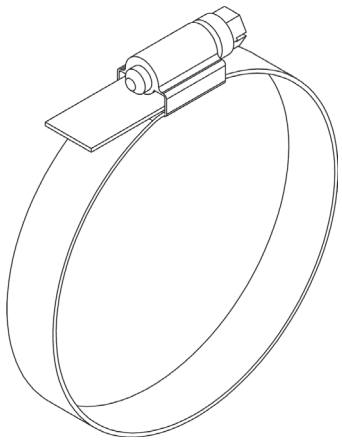




PART NO	DESCRIPTION
GA5005259	Air Filter Housing & Element
GA5049460	Air Filter Element

Hose Clamps

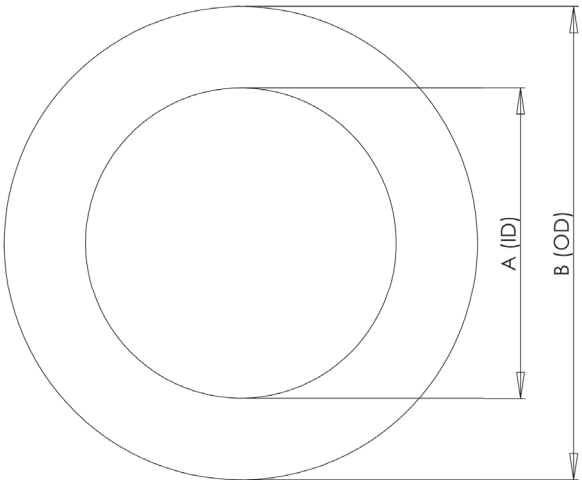
PART NO	DESCRIPTION
GA5004865	8-16mm Hose Clamp
GA5000469	12-20mm Hose Clamp
GA5000299	16-25mm Hose Clamp
GA5001681	20-32mm Hose Clamp
GA5002783	30-45mm Hose Clamp
GA5002873	32-50mm Hose Clamp
GA5003325	40-60mm Hose Clamp
50-70/12W3	50-70mm Hose Clamp
GA5004241	60-80mm Hose Clamp



Cable Ties

PART NO	DESCRIPTION	QTY
GA5002173	Cable tie, black, 100x2.5mm	1000
GA5003517	Cable tie, black, 140x3.5mm	1000
GA5004455	Cable tie, black, 190x4.5mm	1000
GA5000685	Cable tie, black, 320x7.5mm	100
GA5000687	Cable tie, black, 360x4.5mm	100
GA5021235	Cable tie, black, 540x7.5mm	100

Hoses



Suction Hose

Part No	Description	Internal Diameter (A)	Outside Diameter (B)
HOS20S	20mm Suction Hose	20mm	32mm
HOS25S	25mm Suction Hose	25mm	35mm
HOS32S	32mm Suction Hose	32mm	45mm
HOS38S	38mm Suction Hose	38mm	48mm
HOS51S	51mm Suction Hose	51mm	63mm
HOS63S	63mm Suction Hose	63mm	76mm
HOS75S	75mm Suction Hose	75mm	93mm

Suction hose can be defined by its external green stripe and wire reinforcement

Pressure Hose

Part No	Description	Internal Diameter (A)	Outside Diameter (B)
HOS7P	7mm Pressure Hose	7mm	12.5mm
HOS13P	13mm Pressure Hose	13mm	20mm
HOS20P	20mm Pressure Hose	20mm	28mm
HOS25P	25mm Pressure Hose	25mm	34mm
HOS32P	32mm Pressure Hose	32mm	43mm
HOS38P	38mm Pressure Hose	38mm	48mm

Pressure hose can be defined by its blue internal layer

PVC Hose

Part No	Description	Internal Diameter (A)	Outside Diameter (B)
HOS25PVC	25mm PVC Hose	25mm	32mm
HOS40PVC	40mm PVC Hose	40mm	50mm
HOS50PVC	50mm PVC Hose	50mm	48mm

PVC hose can be defined by its ribbed outside finish

Sight Tube Hose

Part No	Description	Internal Diameter (A)	Outside Diameter (B)
HOS12sight	12mm Clear Sight Tube Hose	12mm	15mm
HOS12Wsight	12mm Clear Sight Tube Hose with Wire	12mm	18mm

Layflat Hose

Part No	Description	Internal Diameter (A)	Outside Diameter (B)
GA5021395	50mm Blue Layflat Hose	50mm	N/A

Goldacres/Pathway - Terms and Conditions of Sale

Goldacres/Pathway Goods are only available for purchase upon the terms and conditions set out below.
Interpretation
1. In these warranty terms and conditions:
(1) "Goldacres" or "Pathway" means Goldacres Trading Pty. Ltd. A.C.N. 061 306 732 trading as Goldacres Agricultural Equipment (its successors and assigns) which is the seller of the Goods;
(2) "Purchaser" means the purchaser of the Goods;
(3) "Goods" means the product and, if any, the services sold or provided;
(4) Nothing in these warranty terms and conditions shall be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying, any condition, warranty, guarantee, right or remedy implied by law (including the Competition and Consumer Act 2010) and which by law cannot be excluded, restricted or modified.
(5) GST Act and GST are given the meanings referred to in a New Tax System (Goods and Services Tax) Act 1999.

General
2. (1) These warranty terms and conditions and the terms and conditions incorporated herein by virtue of clause 3 hereto (which shall only be waived in writing signed by Goldacres/Pathway) shall prevail over all other terms and conditions of the purchaser or otherwise to the extent of any inconsistency.
(2) This warranty may not be modified or added to without the expressed written consent endorsed hereon of the Managing Director of Goldacres Trading P/L.

Terms and conditions of sale and warranty.
3. The Goods and all other products sold and, if any, services sold or provided by Goldacres/Pathway are contained in these terms and conditions, and additional terms and conditions as described by the documents "Pathway Forklifts warranty terms and conditions" or "Pathway Pumps warranty terms and conditions." To the extent of any inconsistency between these terms and conditions and the additional terms and conditions described in the said documents, these terms and conditions shall prevail.

Goldacres quotations.
4. Unless previously withdrawn, Goldacres' quotations are open for acceptance within the period stated therein or, when no period is stated, with 14 days only of the quotation date. Goldacres reserves the right to refuse any order based on any quotation within 7 days of receipt of the order.

Packing
5. The cost of any special packing and packing materials used in relation to the Goods shall be at the purchaser's expense notwithstanding that such cost may have been omitted from any quotation.

Shortage
6. The purchaser waives any claim for shortage of any Goods delivered if a claim in respect thereof has not been lodged with Goldacres within (7) seven days from the date of receipt of the Goods by the purchaser.

Specifications, etc: Catalogues, etc: Quantities
7. All specifications, (without limiting the generality of same – including: drawings, particulars of weights, volumes, capacities, dimensions, load factors) are approximate only and any deviation shall not be taken to vitiate any contract with Goldacres/Pathway or form any claim against Goldacres/Pathway. The descriptions, illustrations, and performances contained in catalogues, price lists and other advertising matter do not form part of the contract of sale of the Goods. Where specifications, drawings or other particulars are supplied by Purchaser, Goldacres/Pathway' price is made on estimates of quantities required. Should there be any adjustments in quantities above or below the quantities estimated by Goldacres/Pathway and set out in a quotation, then any such increase or decrease shall be adjusted on a unit rate basis according to unit prices set out herein.

Performance, Capacities, Chemicals, Liquids, Application Methods, Environmental Effects
8. Any performance, volumes, and/or capacity figures given by Goldacres/Pathway are estimates only. Goldacres/Pathway shall be under no liability for damages for failure to obtain such figures unless specifically guaranteed in writing and any such written guarantee shall be subject to the recognised tolerances applicable to such figures. The suitability of chemicals and other liquids for any application and the application methods and the environmental effects shall be sole decision and responsibility of the purchaser and the user of the Goods. Goldacres/Pathway gives no warranty as to the suitability of any chemicals or other liquids for any application, nor the application methods nor the environmental effects, which may result from the use of the Goods. Goldacres/Pathway shall be under no liability for damages arising out of the use of any chemicals, liquids, or mixtures in the Goods nor for any application, nor for the application methods nor for the environmental effects, which may result from the use of the Goods.

Delivery/Service Times
9. The delivery times and service times made known to the purchaser are estimates only and Goldacres shall not be liable for late delivery, non-delivery or delay and under no circumstances shall Goldacres be liable for any loss, damage or delay occasioned by the purchaser or its customers arising from the late or non-delivery or late installation of the Goods.

Loss or damage in transit
10. Goldacres is not responsible for any loss or damage to Goods in transit. Goldacres shall render the purchaser such assistance as may be necessary to press claims on carriers provided that the purchaser shall have notified Goldacres and the carriers immediately the loss or damage is discovered on receipt of Goods and shall lodge a claim on the carrier within three days of the date of receipt of the Goods. Insurance of Goods in transit is the responsibility of the purchaser.

Limit of Liability
11. (1) Goldacres/Pathway liability for Goods manufactured by it is limited to:

1.1 where the law implies consumer guarantees into these terms and conditions pursuant to Part 3.2 Division 1 of Schedule 2 to the Competition and Consumer Act 2010 (C'th") ("consumer guarantees") which cannot be excluded and Goldacres/Pathway breaches a consumer guarantee, the loss and damage the purchaser is entitled to at law which cannot be excluded by these terms and conditions;
and, in all other cases

1.2 making good any defects by repairing the same or at Goldacres/Pathway option by replacement within a period not exceeding either 1000 hours or twelve calendar months, whichever comes first, after the Goods have been dispatched provided that:
(a) the defects have arisen solely from faulty materials or workmanship;
(b) the Goods have not received maltreatment inattention or interference;
(c) accessories of any kind used by the purchaser are manufactured or approved by Goldacres/Pathway;
(d) where applicable, the seals on the Goods remain unbroken;
(e) there has been no improper adjustment, calibration or operation;
(f) the use of accessories including consumables, hardware or software (not manufactured by Goldacres/Pathway) has been approved in writing by Goldacres/Pathway;
(g) no contamination or leakage has been caused or induced;
(h) any modification to the Goods have been authorised in writing by Goldacres/Pathway;
(i) there has been no inadequate or incorrect use, storage, handling or application of the Goods;
(j) there has been no use or operation of the Goods outside of the physical, electrical or environmental specifications of the Goods;
(k) there has been no inadequate or incorrect site preparations;
(l) there has been no inadequate or improper maintenance of the Goods;
(m) it has not been caused by fair wear and tear; and
(n) firstly the Goods have been thoroughly inspected and any damage (from whatever cause) to the Goods (and in particular – the structure, welding, seams, bolts, booms) has been repaired prior to the Goods being operated, used driven or moved and on each occasion the tanks are filled; and
(o) there has been no failure to comply with the requirements of all present or future laws or regulations relating to the Goods and/or the use and/or the operation of the Goods; and
(p) there has been no failure to maintain a record of hours of operation (which record shall contain full details of all inspections, repairs and maintenance) and produce same to Goldacres/Pathway at the time of the warranty claim;
(q) the defective Goods or any damaged part of the Goods are promptly returned free of cost to Goldacres/Pathway or a representative of Goldacres/Pathway;
(r) all warranty related repairs have been carried out with the prior authorisation of Goldacres/Pathway;
(2) If Goods or any part thereof are not manufactured by Goldacres/Pathway, in particular engines, engine accessories, transmissions, transfer cases, differentials, tyres, tubes, batteries, radios and UHFs, the guarantee of the manufacturer thereof shall be accepted by the purchaser and is the only guarantee given to the purchaser in respect of the Goods or that part provided always that this clause does not seek to exclude the consumer guarantees;
(3) in the case of hydraulic systems, Goldacres/Pathway shall replace defective parts in accordance with clause 11(1) of these conditions, provided that the failure of the part was not related to contamination within the system, Goldacres/Pathway shall not be liable for labour in the case of repairing hydraulic system defects;
(4) this warranty does not extend to components considered as normal wear items including, but not limited to nozzles, chains, belts, filters, brake pads, polyethylene bushes and liquid pump valves, valve O-rings, diaphragms and seals;
(5) Goldacres/Pathway shall not be liable for and the purchaser releases Goldacres/Pathway from any claims in respect of faulty or defective design of any Goods supplied unless such a design has been wholly prepared by Goldacres/Pathway and the responsibility for any claim has been specifically accepted by Goldacres/Pathway in writing and in any event Goldacres/Pathway liability hereunder shall be strictly limited to the replacement of defective parts in accordance with paragraph 11 (1) of these conditions provided always that this clause does not seek to exclude the consumer guarantees;
(6) except as provided herein, all express and implied warranties, guarantees and conditions under statute or general law as to the merchantability, description, quality, suitability or fitness of the Goods for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded and Goldacres/Pathway shall not be liable for physical or financial injury, loss or damage or for consequential loss or damage of any kind arising out of the supply, layout, assembly, installation or operation of the Goods or arising out of Goldacres/Pathway negligence or in any other way whatsoever;
(7) Warranty shall only be available to the Purchaser and shall not be transferable by the Purchaser;
(8) Warranty in no way extends to any used Goods.

12. Goldacres/Pathway liability for breach of a consumer guarantee is hereby limited (in the case of goods and services not used for personal, domestic or household purposes) to:
(1) in the case of Goods, any one or more of the following:
(a) the replacement of the Goods or the supply of equivalent Goods;
(b) the repair of the Goods;
(c) the payment of the cost of replacing the Goods or acquiring the equivalent Goods;
(d) the payment of having the Goods repaired; or
(2) in the case of services;
(a) the supplying of the services again; or
(b) the payment of the cost of having the services supplied again.

Prices
13. Already stated
(1) Unless otherwise stated in writing by Goldacres/Pathway, all prices quoted by Goldacres/Pathway are inclusive of GST for supplies within Australia and exclusive of GST for exports outside of Australia. Prices quoted are those ruling at the time of quotation or the date the price is given and are based on rates of freight, insurance, customs, duties, taxes, exchange, shipping expenses, sorting and stacking charges, cartage, cost of materials and other charges affecting the cost of production ruling on that date and any alterations thereto either before acceptance of or during currency of the contract shall be to the purchaser's account.
(2) For the purpose of 38-185 of the GST Act, the day upon which the seller gives the invoice for the supply shall be the date of the invoice.

Payment
14. Already stated
(1) The purchase price in relation to the Goods and the cost of the service shall be payable without deduction and or set off and payment thereof shall be made on or before the thirteenth day of the month following the delivery of the Goods or performance of the services unless other terms of payment are expressly stated in writing.
(2) A decreasing or increasing adjustment and or the issuing of an adjustment note, pursuant to Division 21 and Division 29-C of the GST Act, shall not, in any way, constitute a release, waiver, and or forgiveness of the debt incurred by the purchaser.

Interest on overdue payments
15. If Goldacres is not paid for any goods or services on the due date specified in this agreement without prejudice to any other right or remedy, all outstanding money shall bear interest at the rate set, pursuant to the Penalty Interest Rates Act, Victoria, 1986, as such money, together with interest shall be recoverable forthwith from the purchaser.

Rights in relation to Goods.
16. Goldacres/Pathway reserves the following rights in relation to the Goods until all accounts owed by the purchaser to Goldacres are fully paid.
(1) Legal ownership of the Goods
(2) To enter the purchasers premises (or the premises of any associated company or agent where the Goods are located) without liability for trespass or any resulting damage and retake possession of the Goods; and
(3) To keep or resell any Goods pursuant to (2) above;
If the Goods are resold, or products manufactured using the Goods are sold, by the purchaser, the purchaser shall hold such part of the proceeds of any such sale as represents the invoice price of the Goods sold or used in the manufacture of the Goods sold on a separate and identifiable account as the beneficial property of Goldacres and shall pay such amount to Goldacres on request. Notwithstanding the provisions above Goldacres shall be entitled to maintain an action against the purchaser for the purchase price and the risk of the Goods shall pass to the purchaser upon delivery.

Purchasers property
17. Any property of the purchaser under Goldacres' custody or control shall be entirely at the purchaser's risk as regards loss or damage caused to the property or by it.

Storage
18. Goldacres reserves the right to make a reasonable charge for storage if delivery instructions are not provided by the purchaser within (14) fourteen days of a request by Goldacres for such information.

Returned Goods
19. Goldacres shall not be under any obligation to accept Goods returned by the purchaser and will do so only on terms to be agreed in writing in each individual case.

Goods sold
20. All Goods to be supplied by Goldacres shall be described on the purchase order agreed by Goldacres and purchaser and the description on such purchase order modified as so agreed shall prevail over other descriptions including any purchaser's specification or enquiry.

Cancellation
21. No order may be cancelled except with the consent in writing and on terms, which will indemnify Goldacres against all losses.

No waiver
22. The failure of any party to enforce the provisions of this agreement or to exercise any rights expressed in this agreement shall not be a waiver of such provisions or rights and shall not affect the enforcement of this agreement. The exercise by any party of any of its rights expressed in this agreement shall not preclude or prejudice such party from exercising the same or any other rights it may have irrespective of any previous action taken by that party.

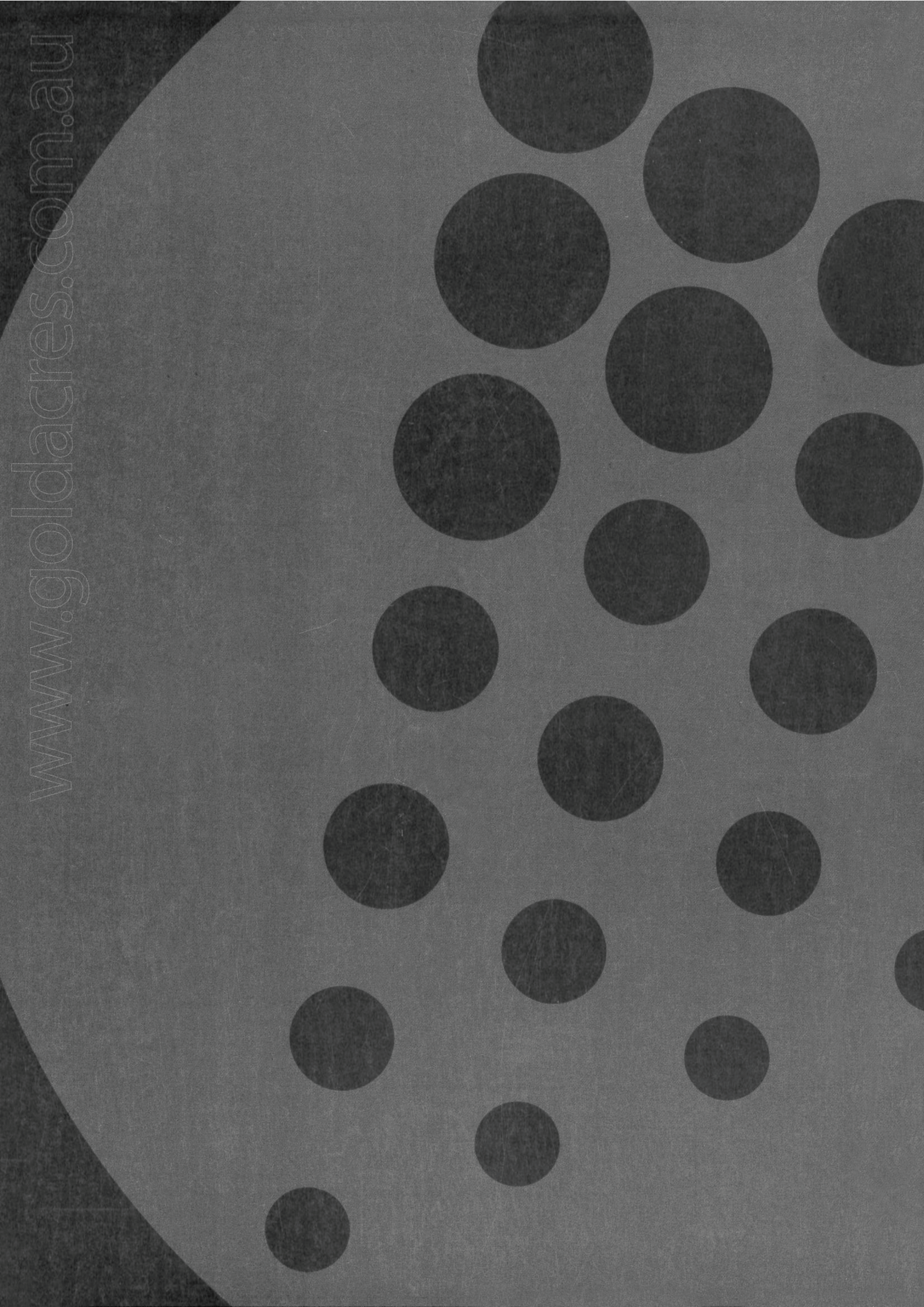
Force Majeure
23. If by reason of any fact, circumstance, matter or thing beyond the reasonable control of Goldacres is unable to perform in whole or in part any obligation under this agreement then Goldacres shall be relieved of that obligation under this agreement to the extent and for the period that it is so unable to perform and shall not be liable to the purchaser in respect of such inability.

Passing of risk
24. Risk in the Goods shall pass to the purchaser upon delivery of the Goods to the purchaser or collection of the goods by the purchaser's agent or carrier as the case may be.

Exclusion of liability
25. To the extent permitted by law Goldacres/Pathway shall not be liable to the purchaser in contract or in tort arising out of, or in connection with, or relating to, the performance of the Goods or any breach of these conditions or any fact, matter or thing relating to the Goods or error (whether or not it is negligent or a breach of contract) in information supplied to the purchaser or a user before or after the date of the purchaser's or user's use of the Goods and Goldacres/Pathway shall be under no liability for damages arising out of the use of any chemicals, liquids, or mixtures in the Goods, nor for any application, not for the application methods nor for the environmental effects, which may result therefrom or from the use of the Goods.

Exclusion of representations and arrangements
26. To the extent permitted by law the terms and conditions supersede and exclude all prior and other discussions, representations (contractual or otherwise) and arrangements relating to the supply of the Goods or any part thereof including, but without limiting the generality of the foregoing, those relating to the performance of the Goods or any part thereof or the results that ought to be expected from using the Goods.

Place of contract
27. The contract for sale of the Goods and the provision of the services is made in the State of Victoria and the purchaser agrees to submit all disputes arising with Goldacres to the courts of such State and any court competent to hear appeals therefrom.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