

# GOLDACRES

*Australia's World Class Sprayers*



## **Prairie Eco** MY13 Parts Manual

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MY13 Prairie Eco Parts  
Manual

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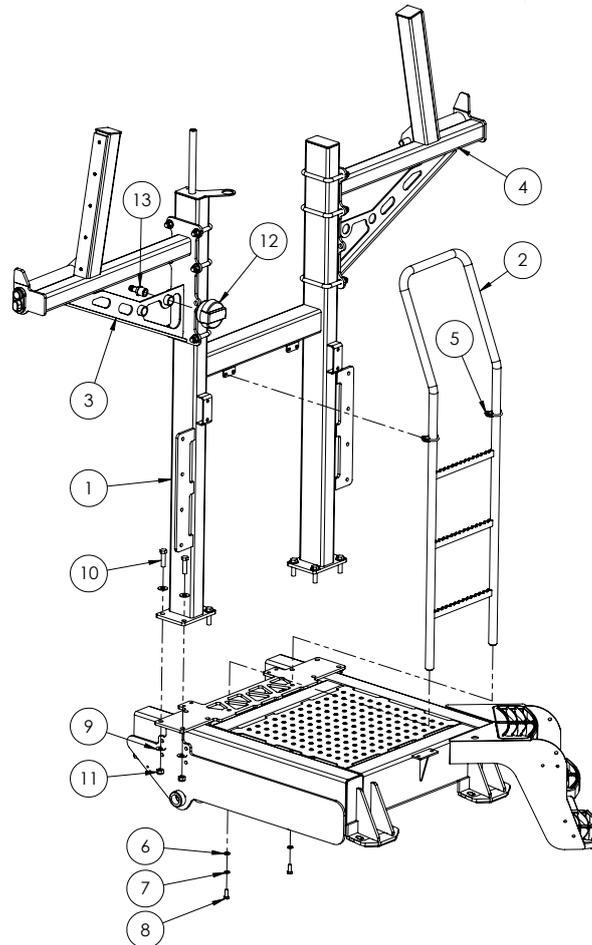
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# Chapter I

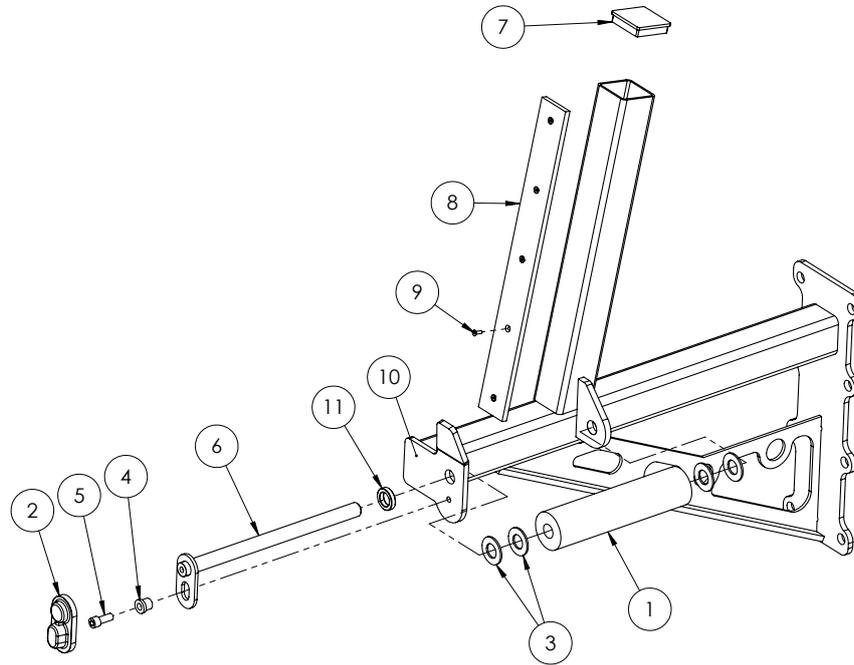
## CHASSIS

### H Frame



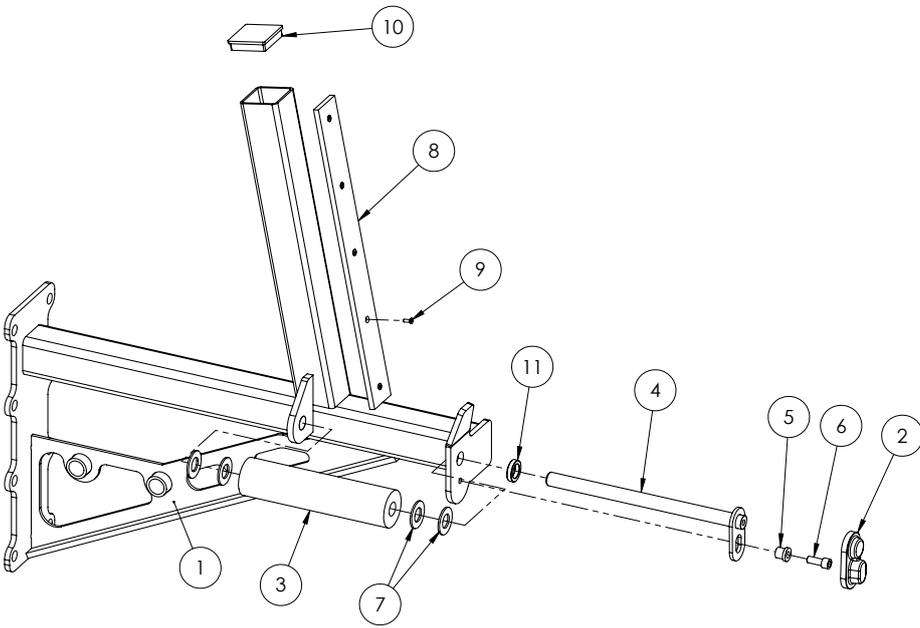
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654181	H-Frame suit praire 4000-6500L 201 I	1
2	GA4658161	Ladder suit 2013 Prairie	1
3	GA4905660	Boom Rest with Roller Sub-assem RH	1
4	GA4905655	Boom Rest with Roller Sub-assem LH	1
5	GA5075120	Heavy Duty Exhaust Clamp 36mm	2
6	GA5000577	M12 SS HD Washer	2
7	GA5000575	M12 Spring washer SS	2
8	GA5000307	M12x30 bolt	2
9	GA5001043	M16 SS washer	16
10	GA5000939	M16x60 bolt	8
11	GA5001029	M16 Nyloc nut	8
12	GA5005259	Air Filter	1
13	HB100-075	1" male thread x 3/4" barb	1
14	GA4659850	6500L Eco Chassis (not shown)	1

# Boom Rest - LH



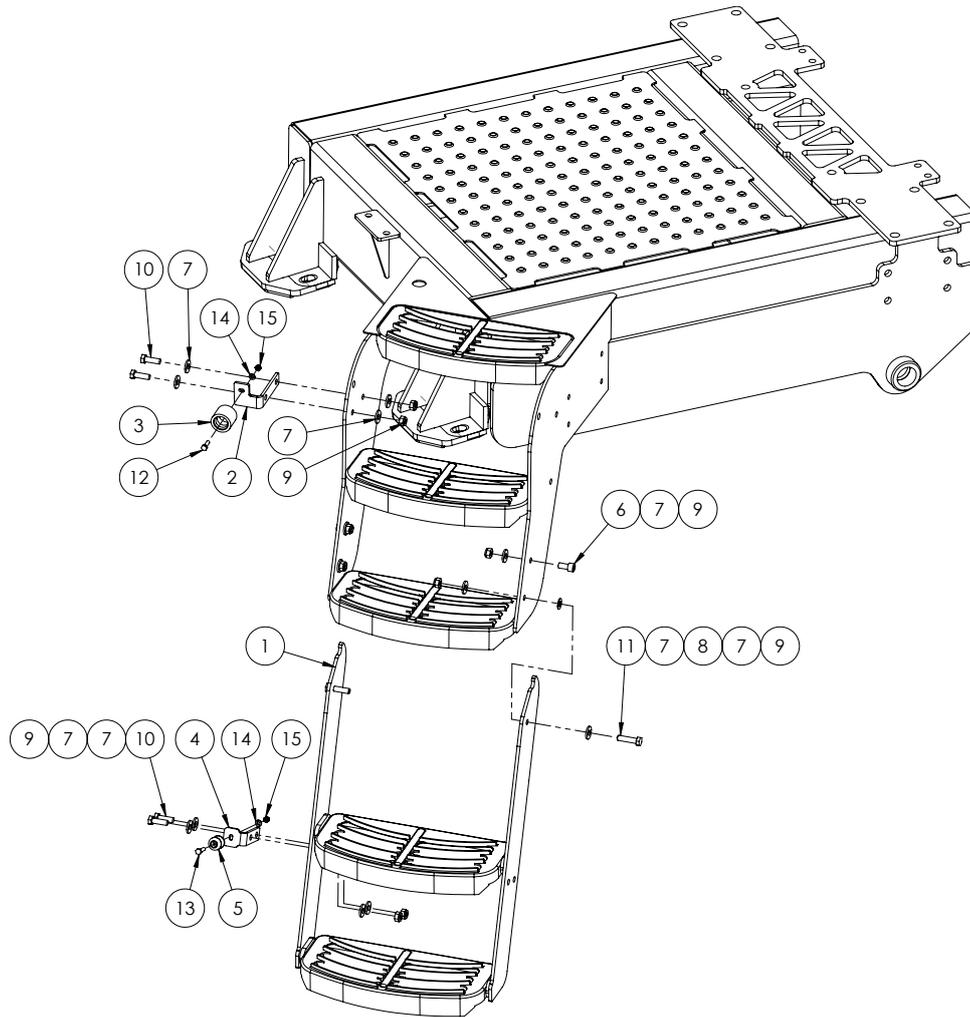
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070700	Boom Rest Roller Prairie	1
2	GA5067885	Pin cover - plastic	1
3	GA5017659	Washer 1" Flat HD ZP	4
4	MACH0152	12mm Bolt Bush suit para lift pins	1
5	GA5000307	M12x30 GR12.9 ZP unbrako	1
6	GA4658745	Pin - suit boom rest roller	1
7	GA5052345	75 x 75 mm square tube insert black	1
8	GA5066630	Plastic Wear Strip Polystone	1
9	GA5051230	M5x16mm FHCS SS	5
10	GA4659675	Boom Rest Prairie LH 4000, 5000, 6500	1
11	GA4572135	Paralift spacer bush	1

# Boom Rest - RH



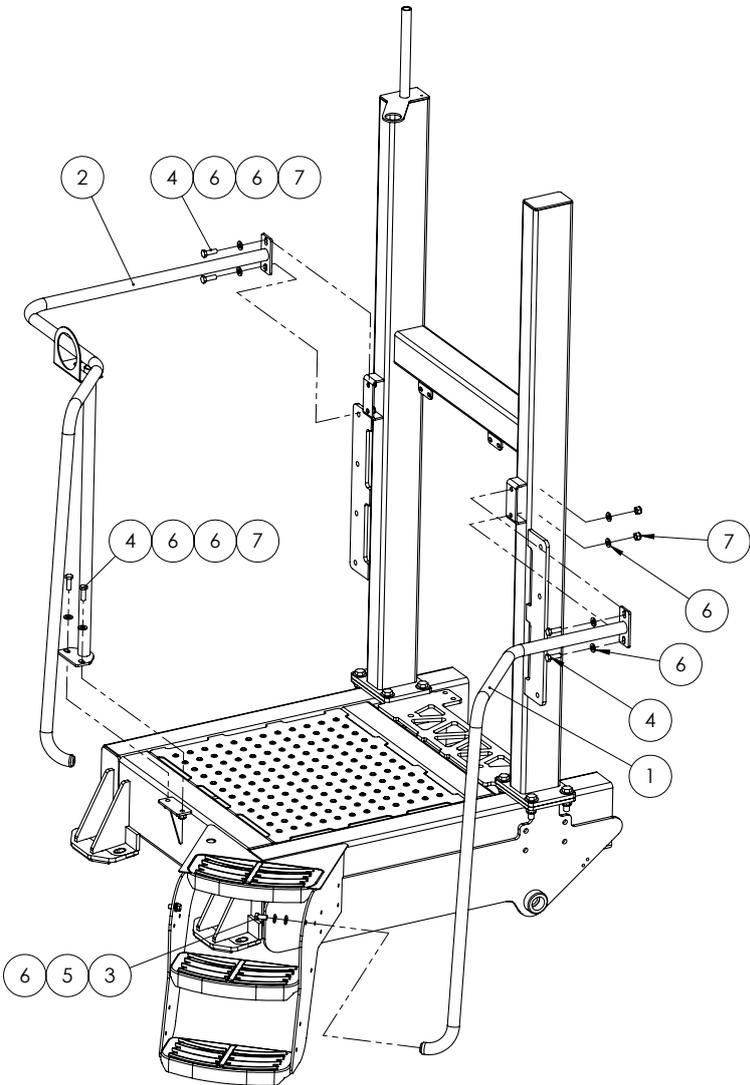
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659670	Boom Rest Prairie RH 4000, 5000, 6500	1
2	GA5067885	Pin cover - plastic	1
3	GA5070700	Boom Rest Roller Prairie	1
4	GA4658745	Pin - suit boom rest roller	1
5	MACH0152	12mm Bolt Bush suit para lift pins	1
6	GA5000307	M12x30 GR12.9 ZP unbrako	1
7	GA5017659	Washer 1" Flat HD ZP	4
8	GA5066630	Plastic Wear Strip Polystone	1
9	GA5051230	M5x16mm FHCS SS	5
10	GA5052345	75 x 75 mm square tube insert black	1
11	GA4572135	Paralift spacer bush	1

# Front Steps



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659690	Lower Ladder Prairie, Special 2013	1
2	F70684A	Upper catch mounting plate LH	1
3	GA5008629	female rubber door holder (black)	1
4	GA4522617	Latch plate suit prairie EF narrow step	1
5	GA5011607	Male rubber door holder	1
6	GA5011153	M10x20 Unbrako	2
7	GA5000117	Washer 10mm SS Heavy duty	14
8	GA5000115	Washer flat SS 10mm	2
9	GA5000141	M10 Nyloc Nut	8
10	GA5065455	Bolt Gr8.8 M10x30	4
11	GA5006071	Bolt M10x40 GR10.9 ZP	2
12	GA5004065	M6x20 bolt	1
13	GA5004079	M6x30 bolt	1
14	GA5004437	M6 SS Washer	2
15	GA5048115	M6 Nyloc Nut SS	2

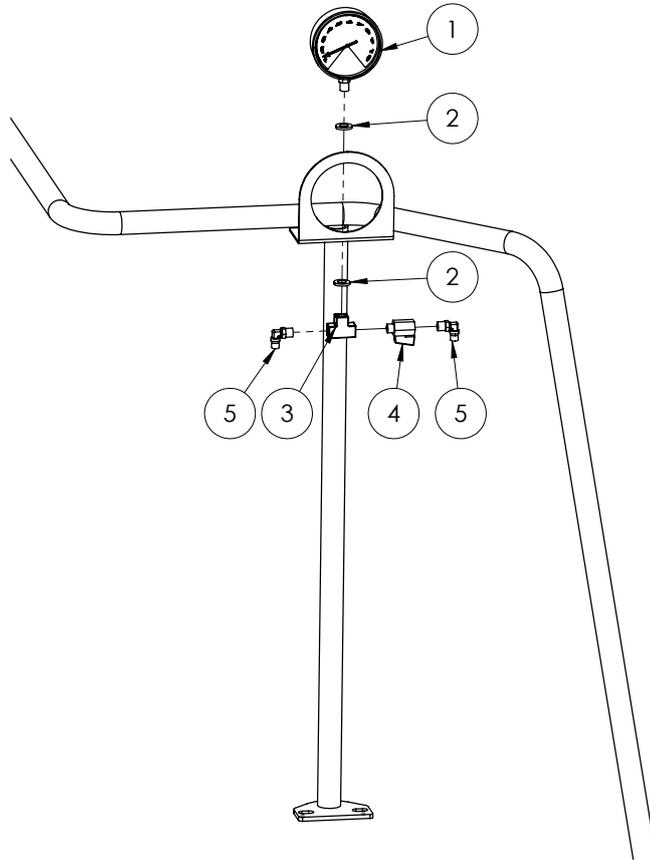
# Hand Rails



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659660	LH side hand rail	1
2	GA4659855	Handrail Prairie Eco 6500L	1
3	GA5000295	Set screw HT M12 x 25	2
4	GA5000311	M12x35 Bolt	6
5	GA5000575	M12 Spring washer SS	2
6	GA5000577	M12 SS HD Washer	14
7	GA5012461	M12 Nyloc nut Z/P	6

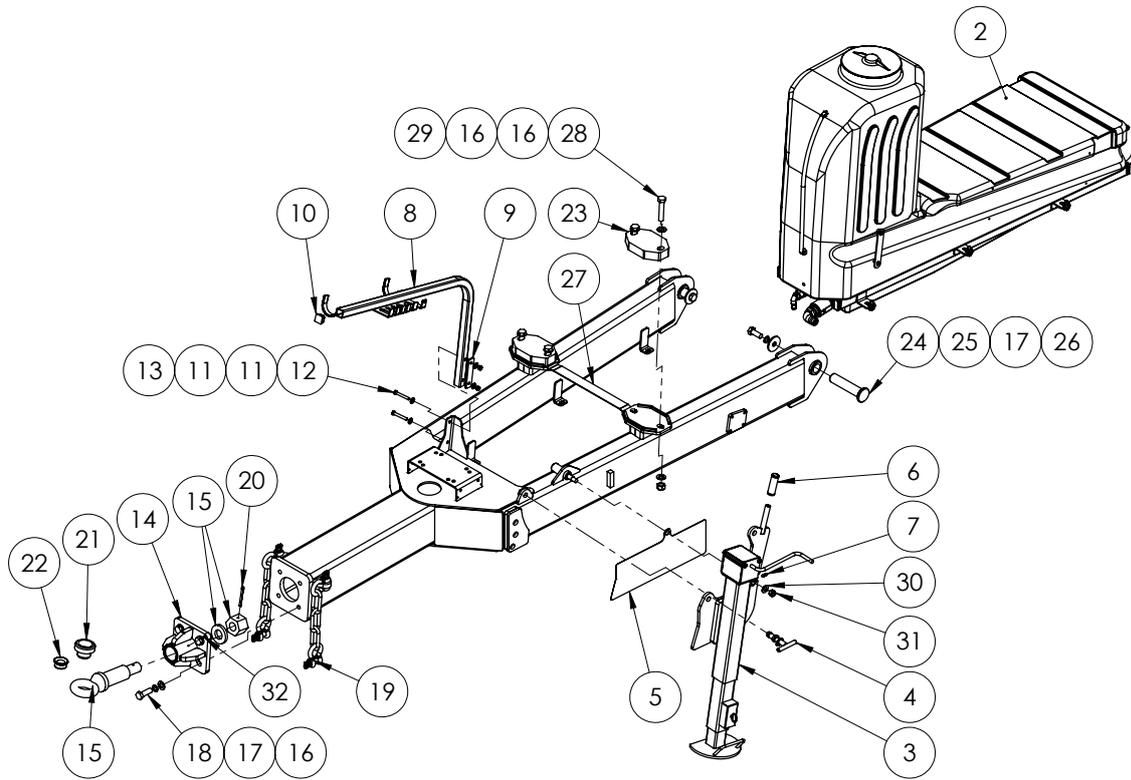
# Hand rail gauge assembly

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4948460	Pressure gauge large face 160PSI	1
2	GA5000577	M12 SS HD Washer	2
3	GA5048300	1/4 Female brass Tee	1
4	GA5018323	1/4" M-F Ball Valve (SS)	1
5	GA5016233	Elbow - Swivel 6mm x 1/4"	2

# Pull



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

Note: GA4905650 - Chain safety complete kit MY13

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659545	Pull Prairie 4000, 5000 and 6500 MY13	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	GA4656436	Jack Prairie advance 08	1
4	GA4656437	Jack Prairie advance 08T bolt	1
5	GA4522297	Prairie EF 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 suit EF pull	1
9	GA4522926	EF pull 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	GA4659555	Welded towing eye - angled MY13	1
15	GA5016243	Swivel Tow Eye (minus bush)	1

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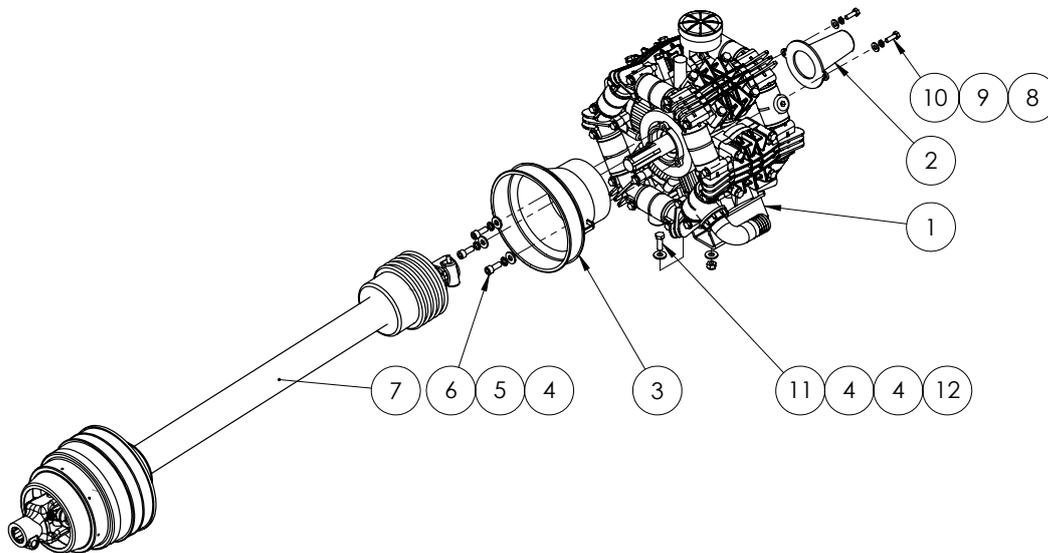
## Pull

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	GA5001739	M20 Heavy Duty Flat Washer	12
17	GA5001721	M20 Spring Washer	6
18	GA5011333	M20x60 bolt	4
19	GA5000667	Bow Shackle	4
20	GA5051385	M8 x 90mm Split Pin	1
21	GA4582455	Spacer Bush Tow Eye suit 1 1/2" pin (Urethane)	1
22	GA5075075	Towing eye bush ID 35mm OD 50mm	1
23	GA5061070	Spacer Pull EF	2
24	PCH-019MACH	Large Chassis Pin	2
25	L073A	Washer suit drawbar pin	2
26	GA5011319	Bolt M20 x 50 ZP	2
27	GA4522385	Prairie EF Belly tank retaining strap	1
28	GA5048355	M20x100 bolt	4
29	GA5048125	M20 Nyloc nut	4
30	GA5001009	M16 washer Zink coated	1
31	GA5001029	M16 Nyloc nut	1
32	GA5012203	Grease Nipple 1/4" UNF Short	1

# Chapter 2

## PUMPS

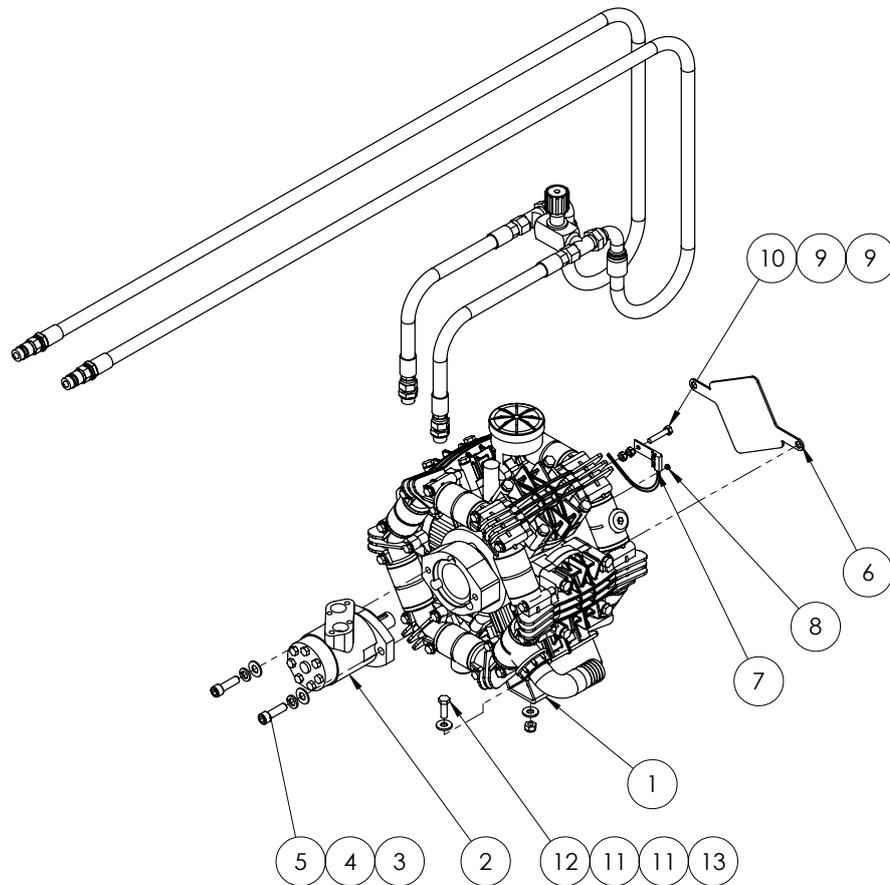
### Pump - Zeta 260 PTO Shaft drive



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054505	Pump Zeta 260 PTO TS 2C	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	M10x25 Unbrako	M10x25 Unbrako	3
7	GA5013511	PTO drive shaft wide angle 1.05m	1
	GA5060830	PTO drive shaft narrow angle	
	7650-7202121913	Standard shaft cover	
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

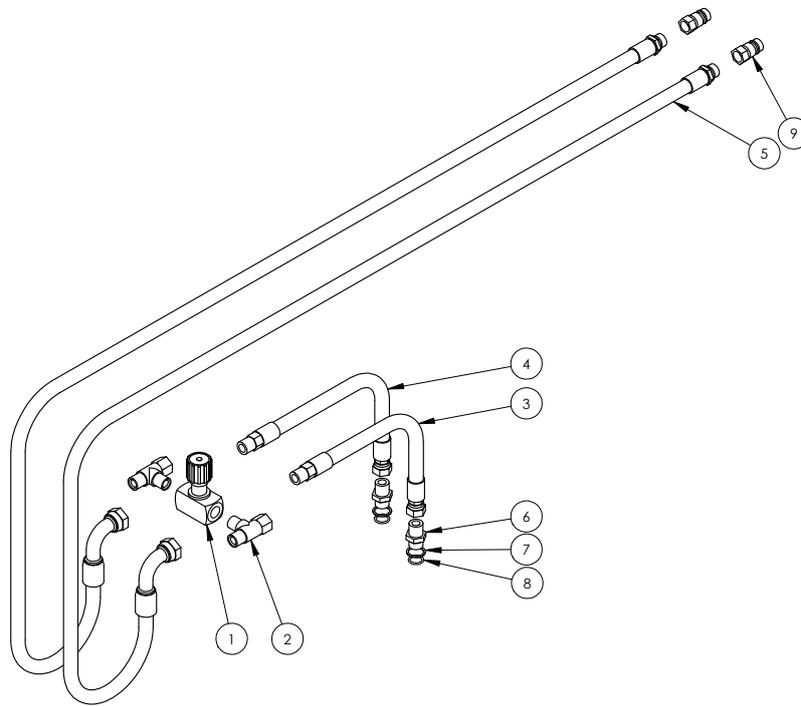


## Pump - Zeta 260 MI Hydraulic Drive



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054500	Pump Zeta 260 MI-I	1
2	GA5047515	motor hydraulic 80cc/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	1170171293	Pump RPM Sensor	1
8	GA5016169	Super Magnet	1
9	GA5011499	M8 Hex Nut ZP	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 hydraulic drive suit hose support MY10	1

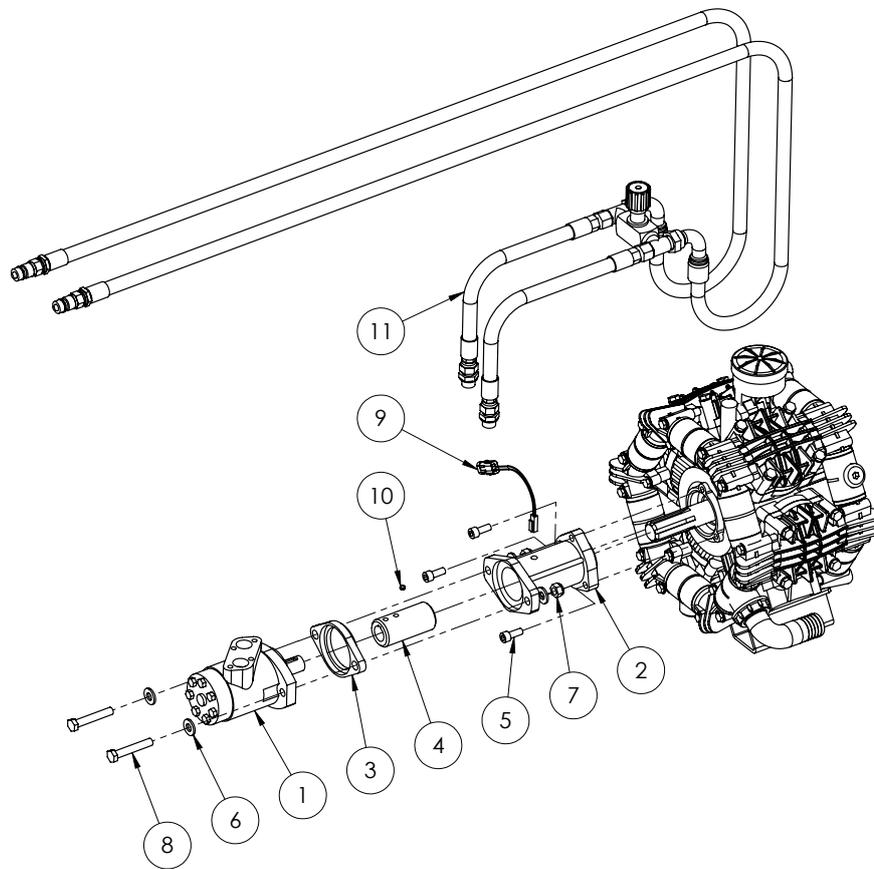
# Hydraulic hose assembly kit



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 conversion kit



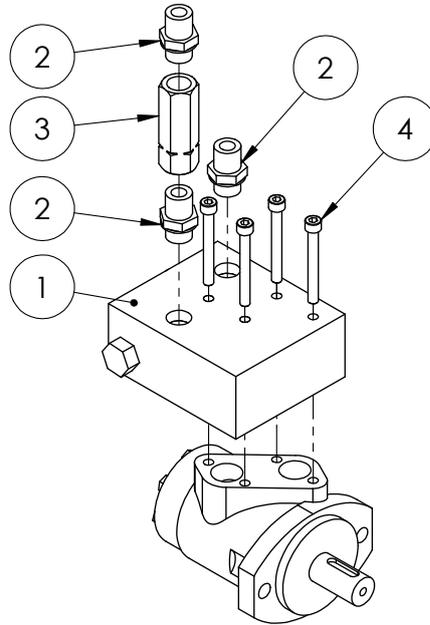
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047515	motor hydraulic 80cc/rev	1
2	F700416600 - adaptor	Adaptor hydraulic motor to UDOR	1
3	GA4552100	plate spacer suit UDOR pump adapter	1
4	F700416600 - socket	Hyd motor to pto converter with 2xgrub screws	1
5	M10x25 Unbrako	M10x25 Unbrako	3
6	GA5000587	M12 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

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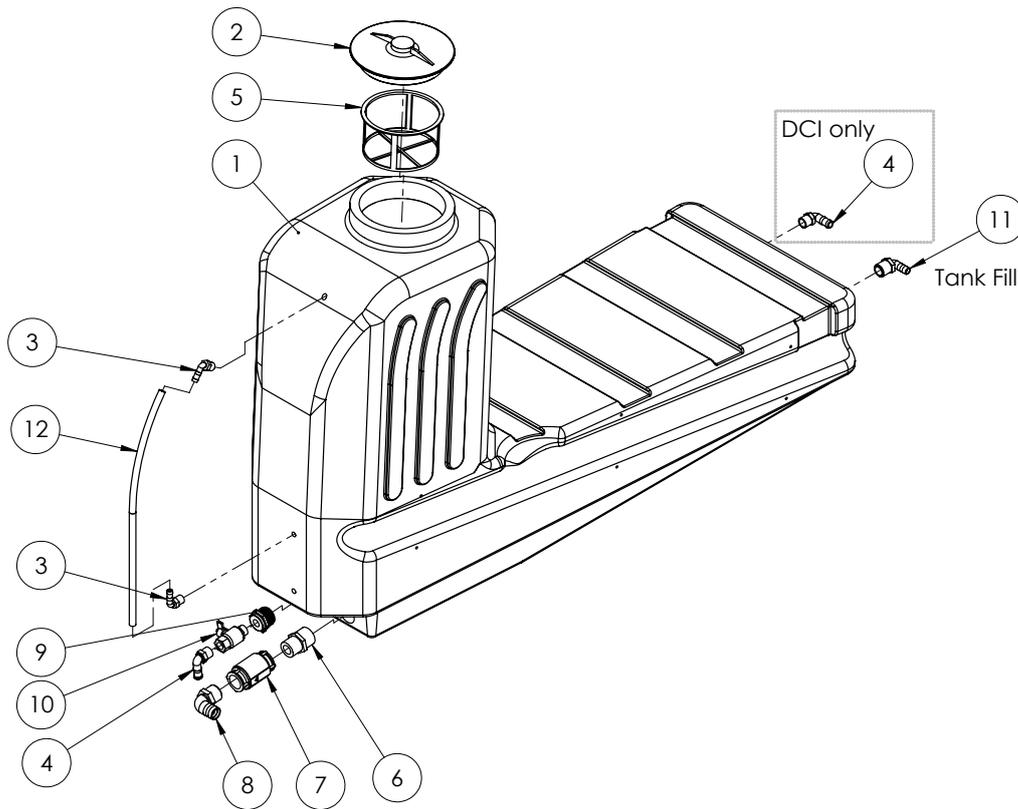


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5049425	Manual flow control	1
2	S75-0808	1/2" BSPP x 1/2" BSPT Hydraulic Fitting w/ O-Ring @ Washer	3
3	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
4	GA5049430	SHCS M8 x 70 ZP GR12.9	4

# Chapter 3

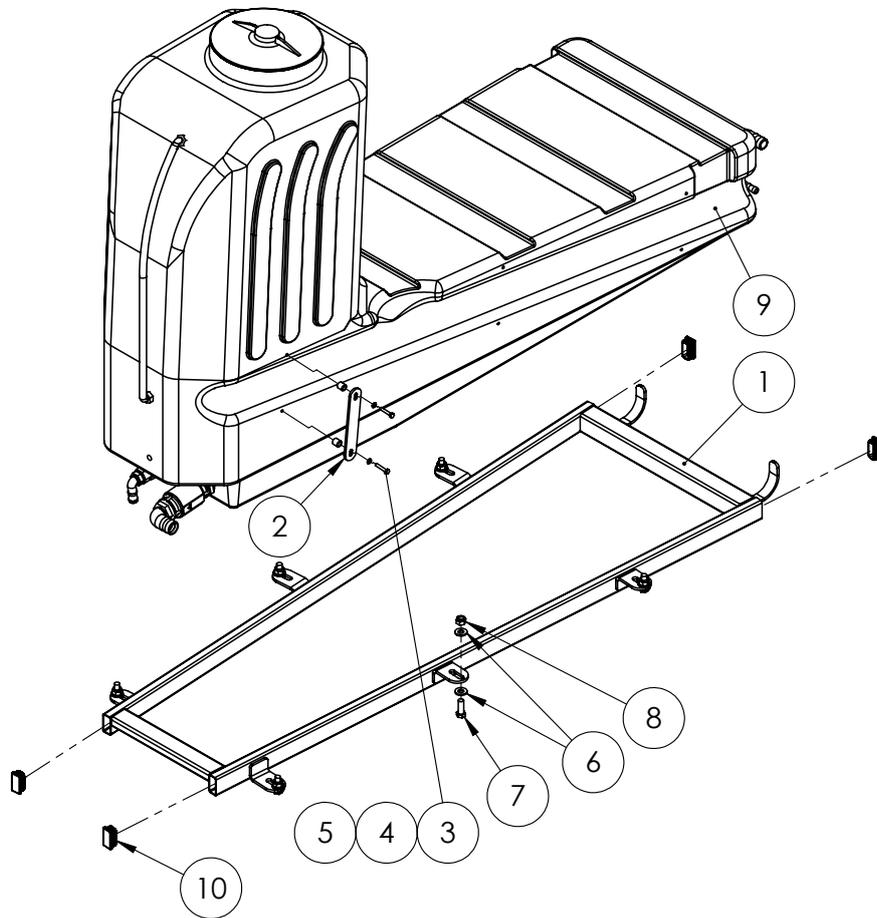
## FLUSH TANK

### 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"	2
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 1/2" to 3/4"	1
10	GA5018315	Ball Valve Male / Female TEE 3/4"	1
11	HB100-075-90	1"MPT X 3/4"Hose Shank-90 Deg	1
12	HOS12SIGHT	12mm sight tube - cut 660mm long	1

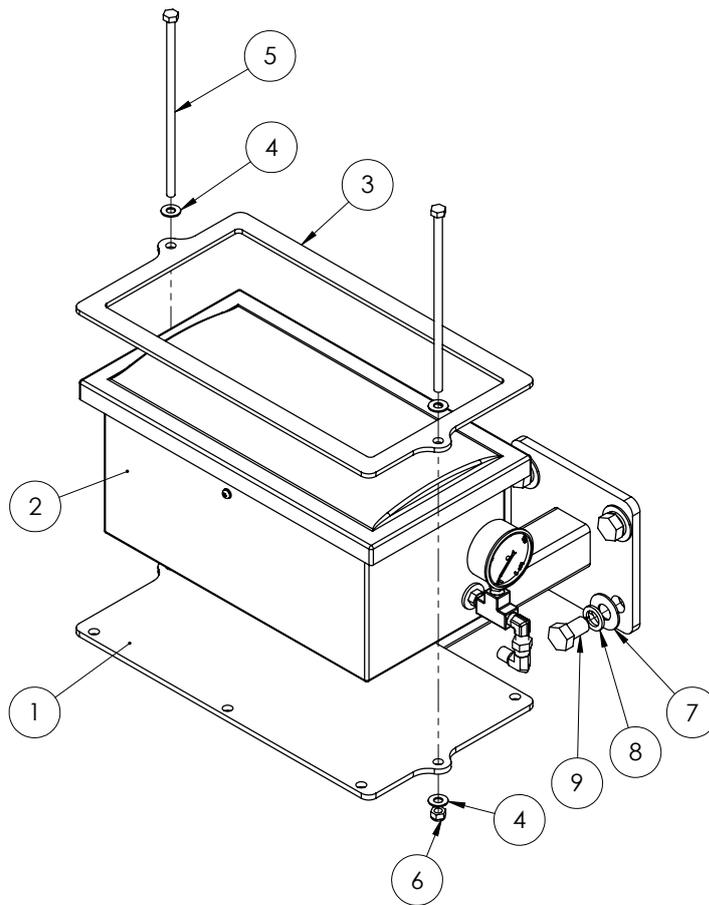
# 400lt Belly Tank Frame



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654320	Rinse tank frame	1
2	F70681A	Hose retaining strap for belly tank	2
3	GA5011405	M6x35 bolt	4
4	GA5004437	M6 SS Washer	4
5	GA4552075	crush tube 10.2x15x15	4
6	GA5000587	M12 WASHER	12
7	GA5000311	M12x35 Bolt	6
8	GA5012461	M12 Nyloc nut Z/P	6
9	GA4903087	Preassembled 400L Belly Tank	1
10	GA5003733	End Cap, 50x25 RHS	4

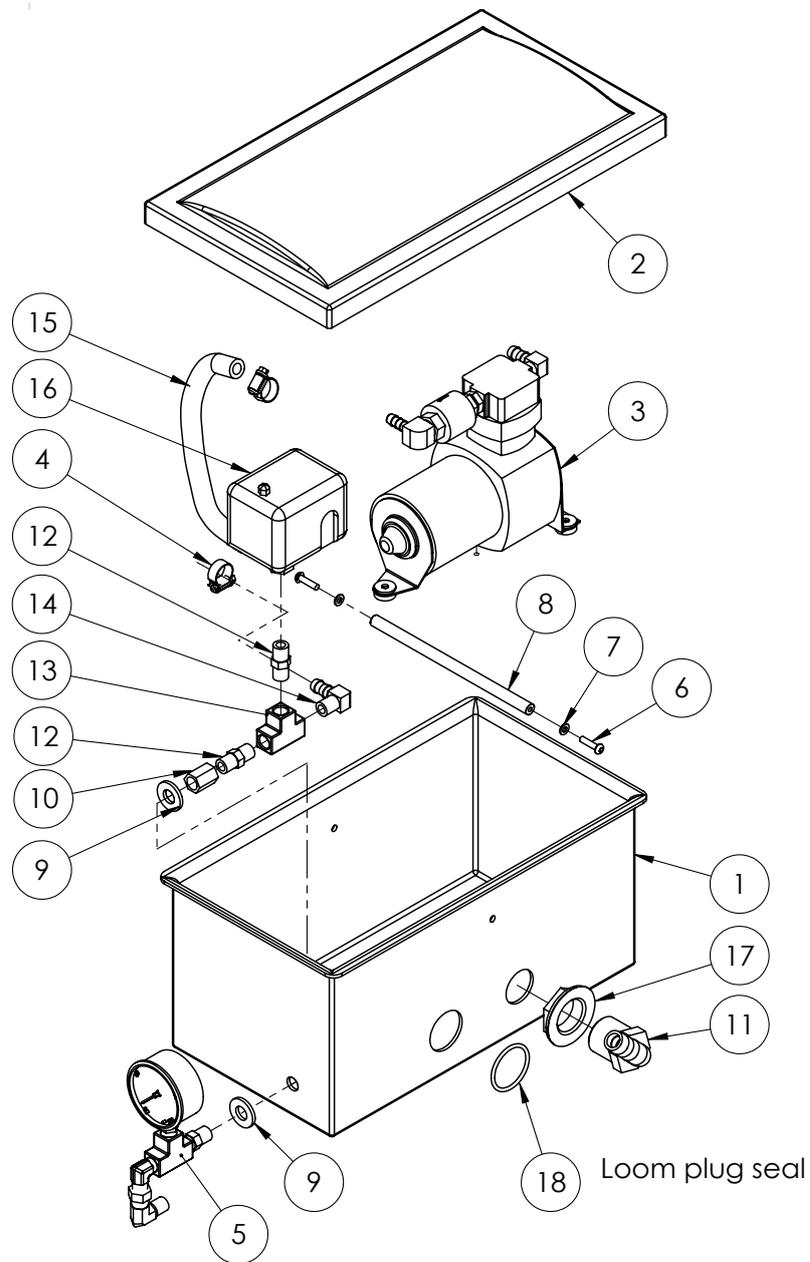
# Chapter 4

## RIGHT HAND POD



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657695	Special EF Airbag Compressor Mount	1
2	GA4903147	Pre Assm Air Bag Compressor Box 2010	1
3	F70254A	Top retaining plate for plastic foam/air box GA5066955	1
4	GA5004883	Washer 8mm HD	4
5	MACH0041	M8x210 Bolt for foam marker box	2
6	GA5004917	M8 Nyloc Nut	2
7	GA5001043	M16 SS washer	4
8	GA5000961	Washer 16mm Spring ZP	4
9	GA5000903	M16x25 bolt	4

## Right Hand Pod - Internal Components



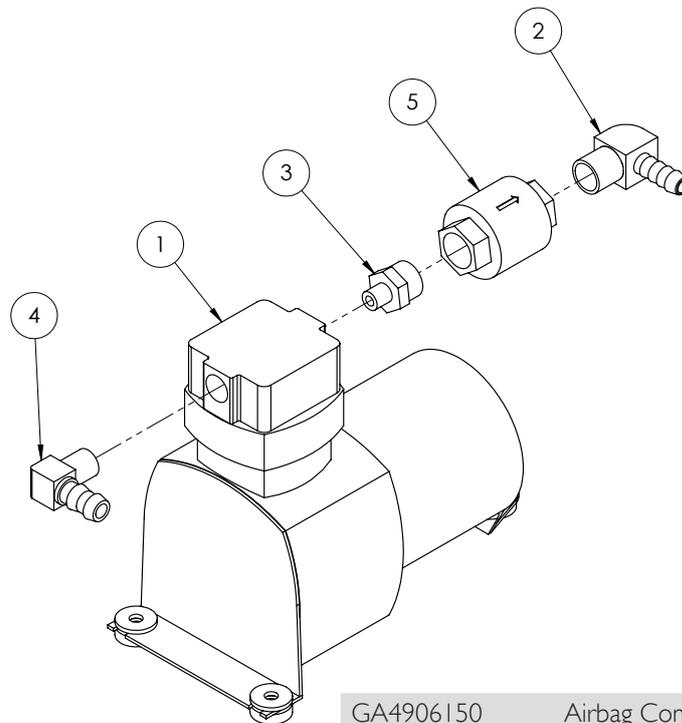
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5066955	Foam Marker Box Bottom	1
2	GA5066955-2	Foam Marker Box Lid	1
3	GA4906150	Air bag compressor only sub assembly	1
4	GA5000469	1/2" SS hose clamp	2
5	GA4906170	Air bag compressor box gauge sub assem suit special	1
6	GA5003581	M5x20mm Button head soc SS	2
7	GA5003983	M5 washer ss	2
8	GA4572130	Rod suit foam marker box	1

Continued over page

## Right Hand Pod - Internal Components

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA5000587	M12 WASHER	2
10	GA5066940	1/4" BSPP Socket Brass	1
11	HBI00-075-90	1" MPT X 3/4" Hose Shank-90 Deg	1
12	GA5050285	1/4" Brass Nipple	2
13	GA5048300	1/4 Female brass Tee	1
14	GA5049290	Elbow brass 3/8 x 1/4	1
15	GA5051025	Multi purpose 3/8" ID Red cut 220mm	1
16	GA5016221	Switch differential Press.T/S Air Bag	1
17	2052040	Back Nut 1"	1
18	GA5065820	O-Ring 38x3 FPM 75 suit AS40	1

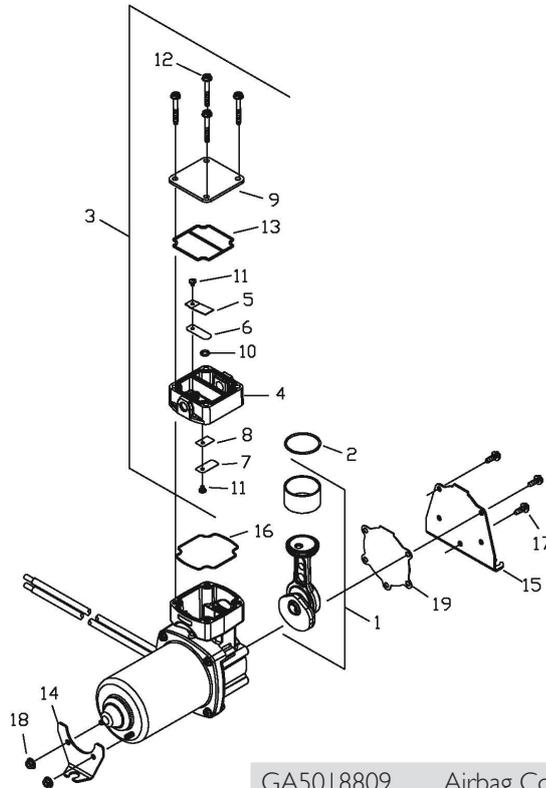
## Airbag Compressor



GA4906150 Airbag Compressor

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018809	Compressor suit airbag 319	1
2	GA5070730	Elbow Brass 3/8 x 3/8	1
3	GA5020690	Nipple reducing Brass 1/8"x3/8"	1
4	GA5049290	Elbow brass 3/8 x 1/4	1
5	GA5020010	One way valve 3/8 york	1

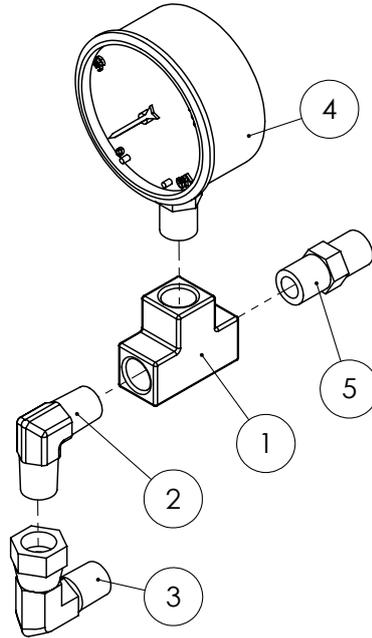
# Airbag Compressor Parts



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
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

# Air Compressor Gauge



GA4906170 Air Compressor Gauge

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5048300	1/4 Female brass Tee	1
2	S49-0404	1/4" 90 Deg Elbow	1
3	S82-0404	0404 BSPTM BSPF 90° Elbow	1
4	GA4948470	Small Face Gauge 160 psi	1
5	GA5050285	1/4" Brass Nipple	1



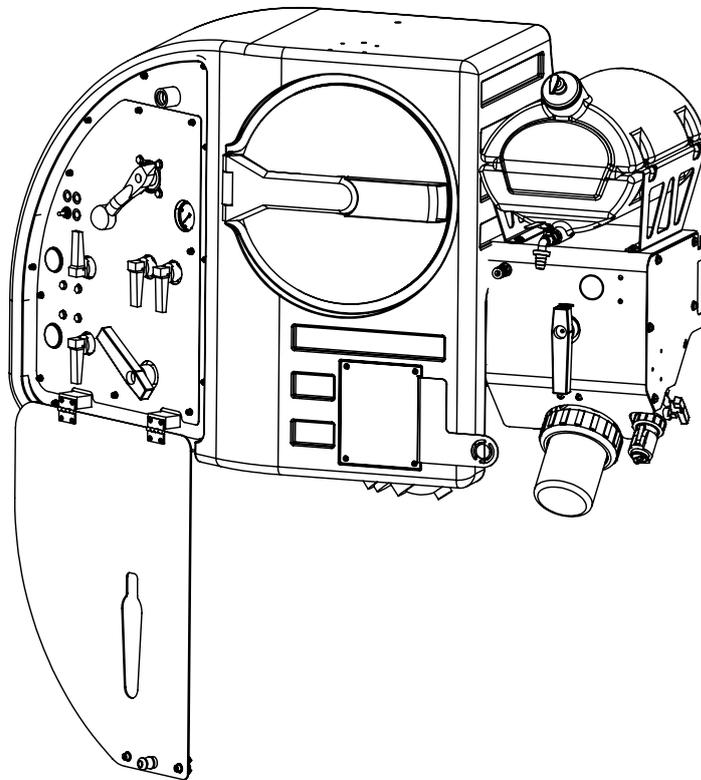
# Chapter 5

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## LEFT HAND POD

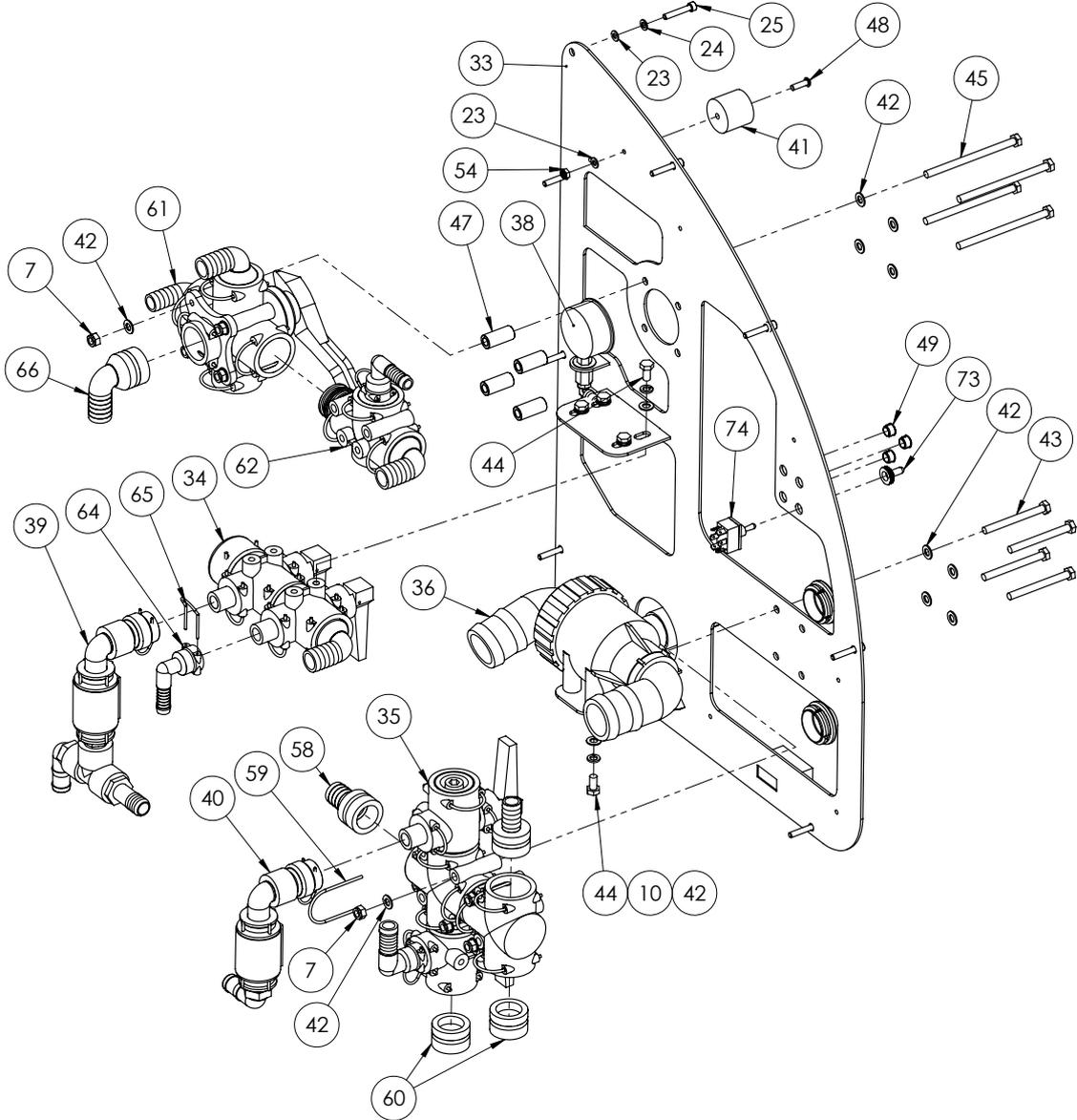
### Prairie Eco Left Hand Pod

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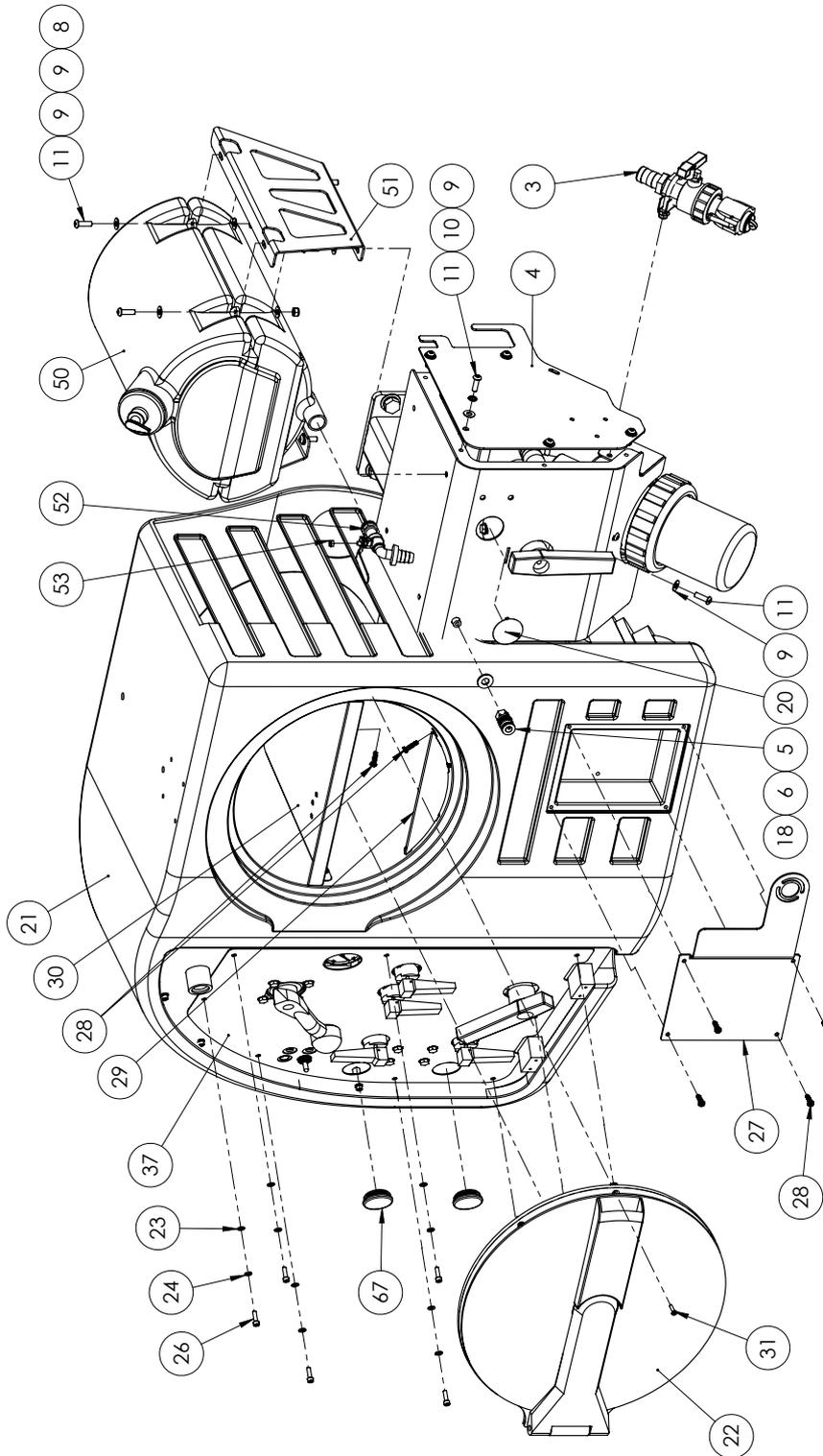
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# Prairie Eco Left Hand Pod



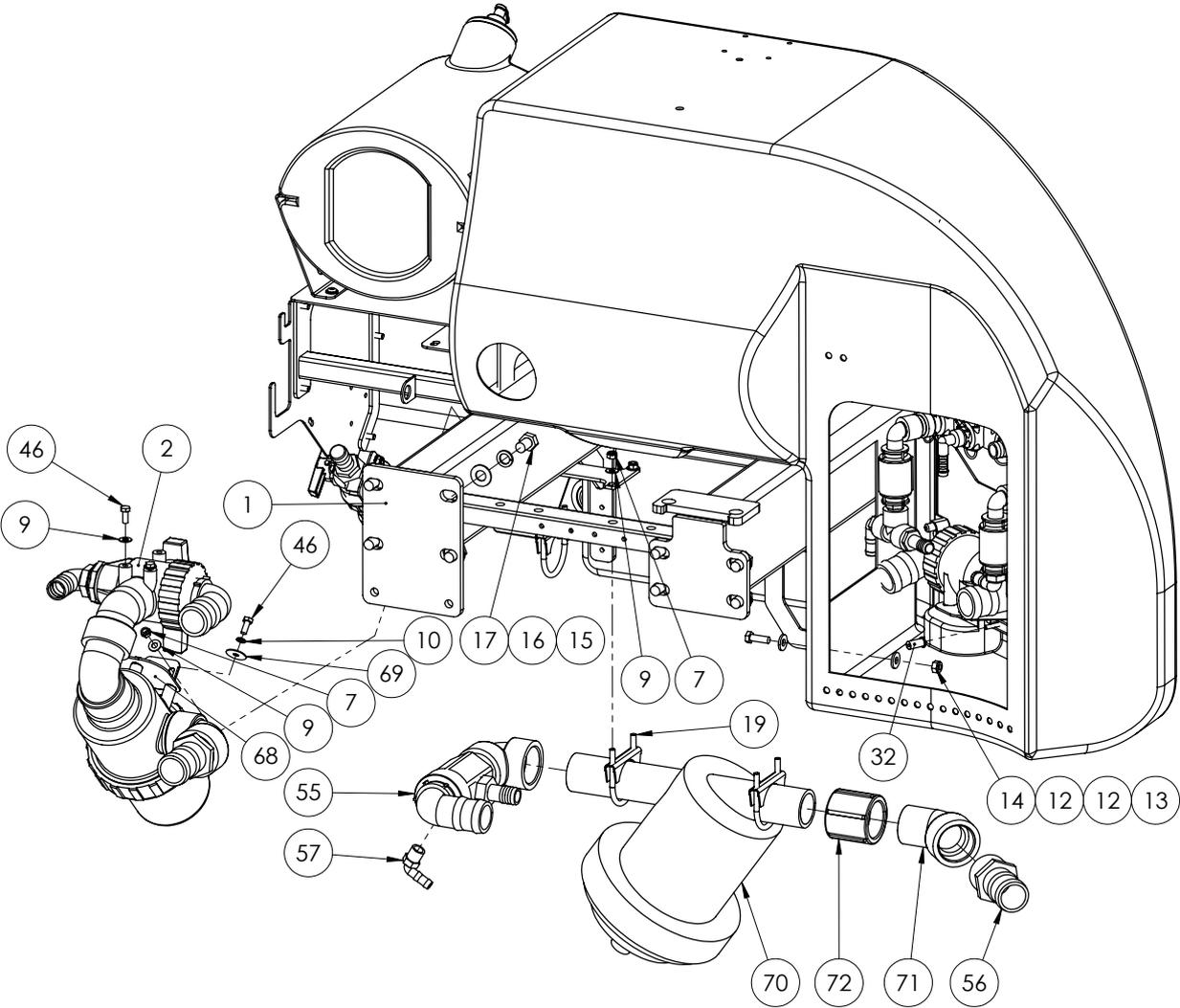
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# Prairie Eco Left Hand Pod



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# Prairie Eco Left Hand Pod



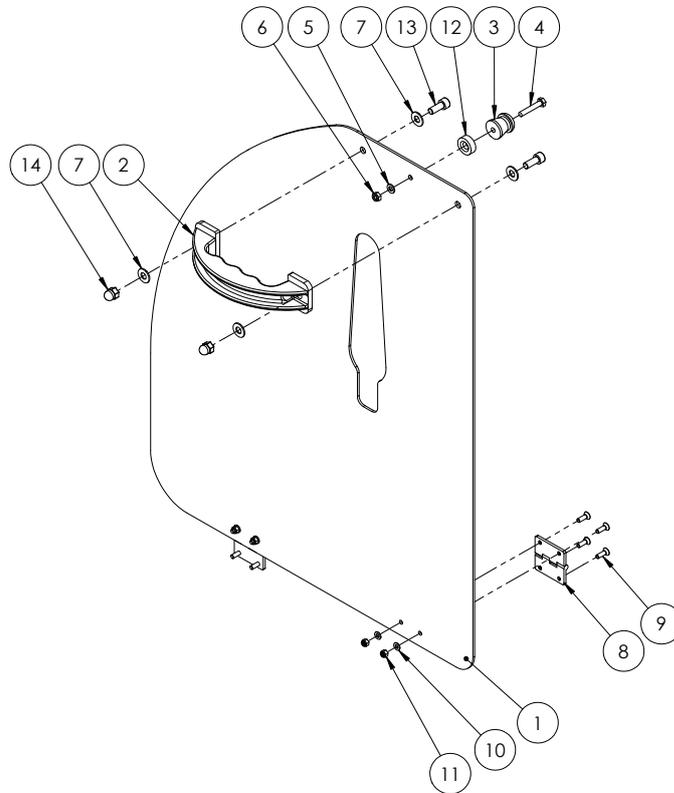
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658155	LHS pod frame suit 201 I model EF	1
2	GA4903148-06	Suction filter sub assem Evo 201 I	1
3	GA4903148-07	Chem probe Evo 201 I	1
4	GA4523755	Prairie suction pod frame side cover plate	1
5	200S	Female 1/4 bspp female air coupling	1
6	GA5000587	M12 WASHER	2
7	GA5004917	M8 Nyloc Nut	14
8	GA5052590	Nut M8 Nyloc S/S 316	8
9	GA5004883	Washer 8mm HD	31
10	GA5004919	M8 Spring washer SS	15
11	GA5011473	M8 x 25 BHCS SS	15
12	GA5000117	Washer 10mm SS Heavy duty	8
13	GA5065455	Bolt Gr8.8 M10x30	4
14	GA5000141	M10 Nyloc Nut	4
15	GA5001009	M16 washer Zink coated	8
16	GA5000961	Washer 16mm Spring ZP	8
17	GA5000903	M16x25 bolt	8
18	S27-0404	1/4" x 1/4" Steel Nipple	1
19	GA5006689	Exhaust clamp - 66mm C12	3
20	GA5054755	Hole cover 46mm dia Black	3
21	GA5018373	RH pod Blank suit Evo 201 I	1
22	3560602	Lid hinged black	1
23	GA5004437	M6 SS Washer	18
24	GA5004447	M6 Spring washer SS	17
25	GA5011425	M6 x 35mm Cap Screw	9
26	GA5004055	BOLT M6 x 20 SHCS ZP	8
27	F70651A	FULL FACE COVER PLATE	1
28	GA5004437	Screw 12G x 1 XR STS Pan SS	12
29	GA4534185	Locker Bottom Lip	1
30	GA4534190	Locker Middle Shelf	1
31	GA5014819	10G x 25mm CS Self tapping screw	8
32	GA5020855	Nut M6 x 25 Rawl Nut	9
33	GA4658165	LHS pod door skin 201 I	1
34	GA4903148-03	Pressure Control assem EVO 201 I	1
35	GA4903148-23	Fill Manifold sub assm	1
36	GA4903148-04	Fresh water fill tap assem EVO 201 I	1
37	GA4523635	Cover Plate suit Altek ball valves 201 I	1
38	GA4903148-14	Pressure gauge assem EVO 201 I	1
39	GA4903148-18	Non return valve assem Evo 201 I	1
40	GA4903148-19	Non return valve assem Evo 201 I	1
41	GA5008629	female rubber door holder (black)	1
42	GA5003643	Washer 8mm SS HD	23
43	GA5004749	M8x80 Bolt	4

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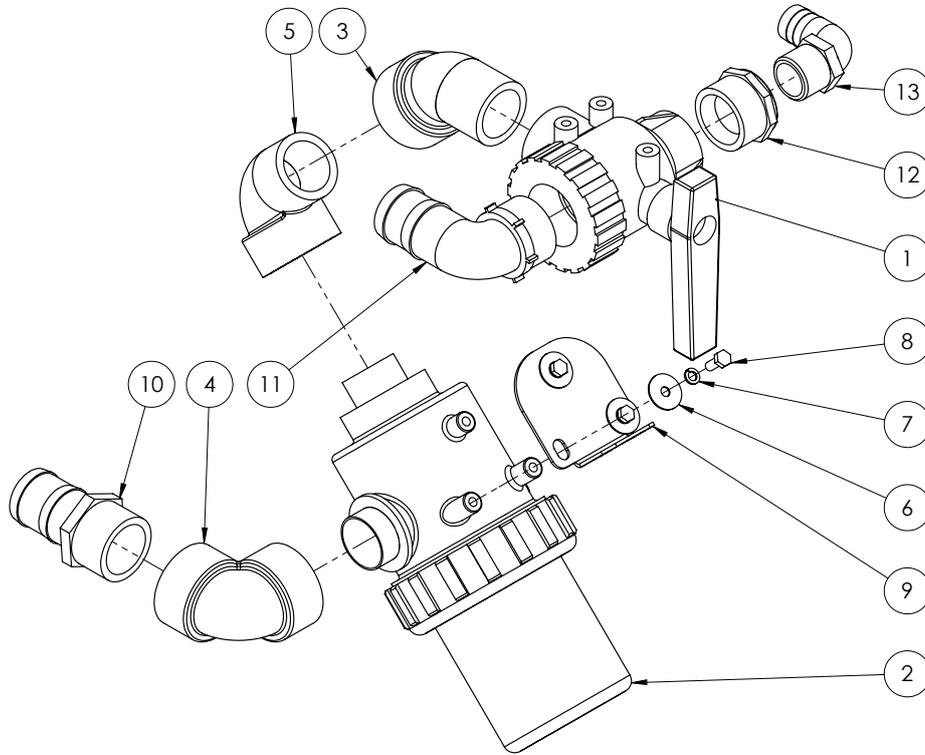
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
44	GA5011465	M8x16 bolt ZP	7
45	GA5011501	M8x120 Bolt	4
46	GA5004085	M8x20 bolt	5
47	GA4552135	Spacer for Altek Rotary valve	4
48	GA5004053	Bolt BHCS S'Steel M6x20	1
49	GA5048780	Dome plug 12mm	3
50	GA5075110	Plastic water tank 30L black with soap holder	1
51	GA4523740	30L hand wash Tank mount bracket	2
52	GA5070735	Hand wash bottle tap	1
53	GA5004429	M6 Nyloc Nut SS	1
54	GA5048115	Nut nyloc M6	1
55	GA4903148-12	Fresh Water Filter Manifold	1
56	HB200	Straight Hose Barb 2"	1
57	HB050-90	Hose Barb Elbow 1/2	1
58	GA5065580	Plug in hose tail AS40/25	1
59	GA5065690	Safety pin AS40	1
60	GA5065680	Blind cap Plug AS40	2
61	GA4903148-24	4 Way Valve - Prairie LH Pod	1
62	GA4903148-25	Hopper Connections - Prairie LH Pod	1
63	GA5065575	Plug in hose tail AS40/20	1
64	GA5065750	female hose tail AS24/15/90	1
65	GA5065695	AS24 Safety Pin	1
66	GA5065615	Plug in hose tail AS40/25/90 degree	1
67	GA5003875	50mm round black inserts 2.5 - 4.5mm wall	2
68	GA4523840	Filter mount plate suit 201 I pod	1
69	GA5017645	1/4" Flat washer large	3
70	GA5001333	2" Fill filter with 50 mesh screen viton	1
71	SL200-45	2" Street Elbow 45 degree	1
72	CPLG200	2 poly pipe coupling	1
73	GA5012175	Narva Water Proof Switch Cover B/P	1
74	GA5075250	On/On Switch 10A DPDT	1
75	GA4903148-05	Pod cover door assem EVO 201 I	1

# LH Pod Door



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523640	Fill Station Cover	1
2	GA5009841	Handle black HD polylthne	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

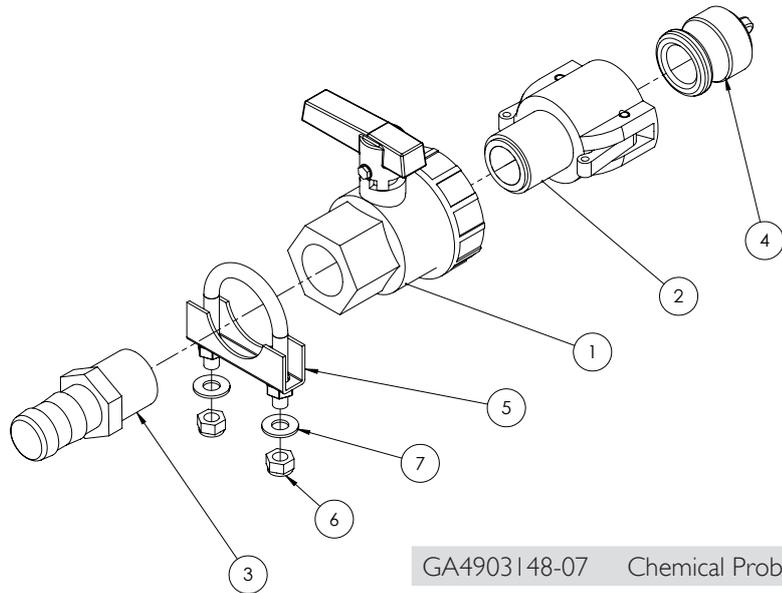
# Suction Filter



GA4903148-06 Suction Filter Sub Assem

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	4542237	2" 3 way ball valve	1
2	317072	2" Suction filter	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	3
9	GA4523840	Filter mount plate suit 201 I pod	1
10	HB200	Straight Hose Barb 2"	1
11	HB200-90	Hose Barb Elbow 2"	1
12	RB200125	Poly Pipe Reducer Bush 2 x 1 1/4	1
13	HBI25-90	90' Poly Hose Barb Elbow 1 1/4	1

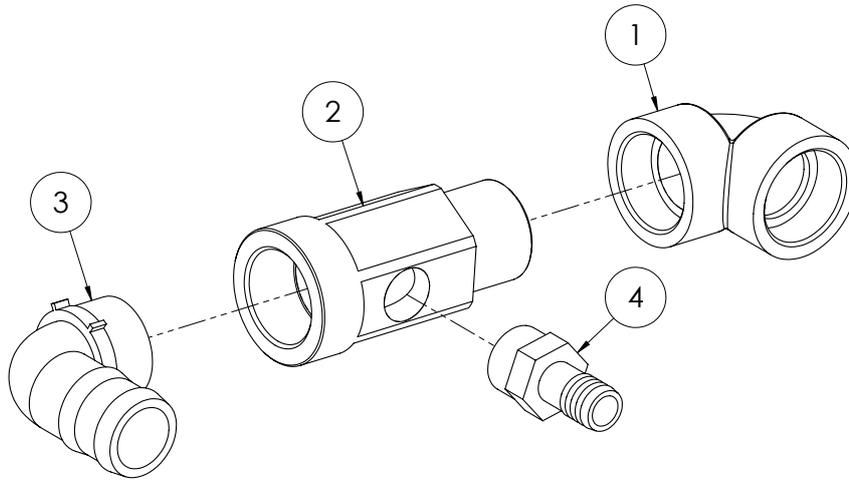
# Chem Probe



GA4903148-07 Chemical Probe

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	Hose Barb 1"	1
4	100PL	plug Banjo 1"	1
5	GA5006705	Exhaust clamp 1 5/8"	1
6	GA5004917	M8 Nyloc Nut	2
7	GA5004883	Washer 8mm HD	2

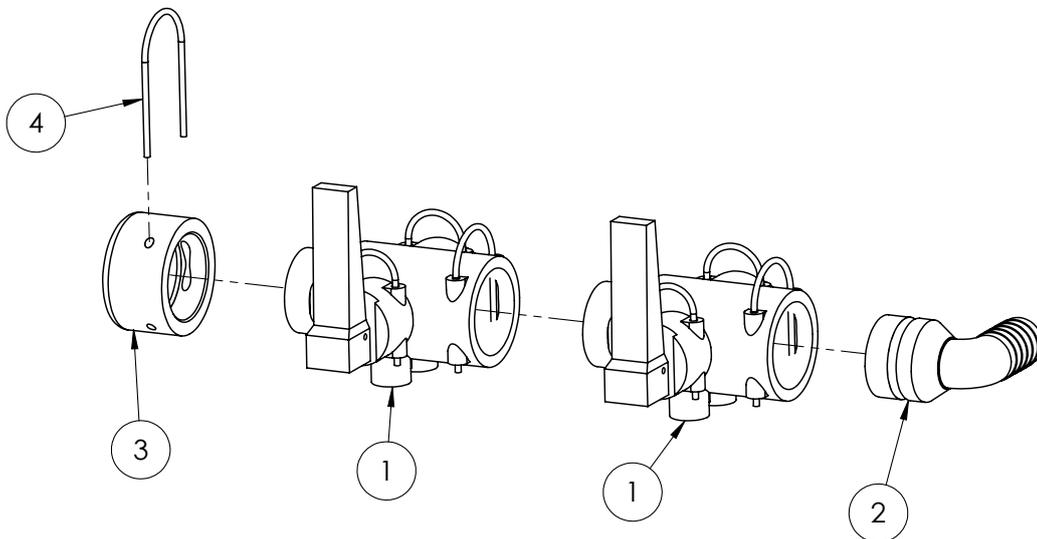
## Fresh Water Filter Manifold



GA4903148-12 Fresh Water Filter Manifold

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EL200-90	Pipe Elbow 2" female	1
2	MACH0311	Poly fitting 2" female to 2" male to 1" female	1
3	HB200-90	Hose Barb Elbow 2"	1
4	HB100	Hose Barb 1" Banjo	1

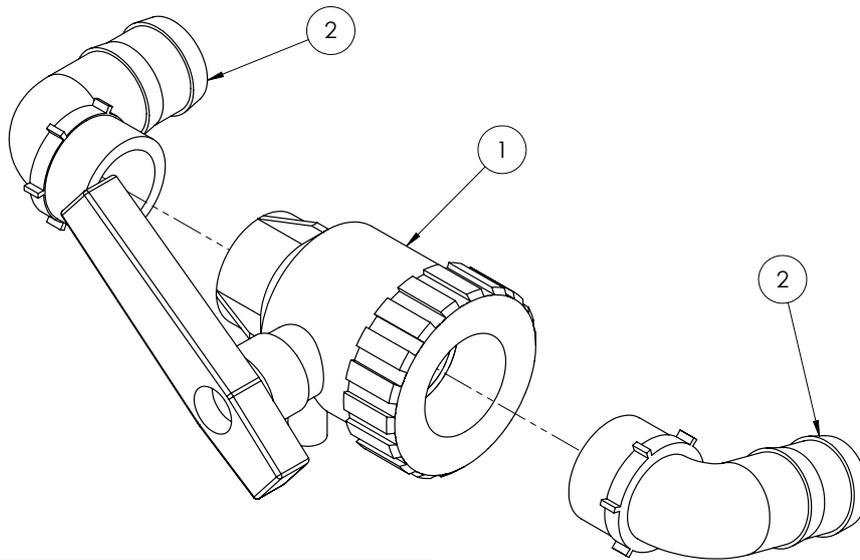
## Pressure Control Assembly



GA4903148-03 Pressure Control Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065545	Quick fit valve 2 WAY	2
2	GA5065615	Plug in hose tail AS40/25/90 degree	1
3	GA4582395	Cap Altek AS40	1
4	GA5065690	Safety pin AS40	1

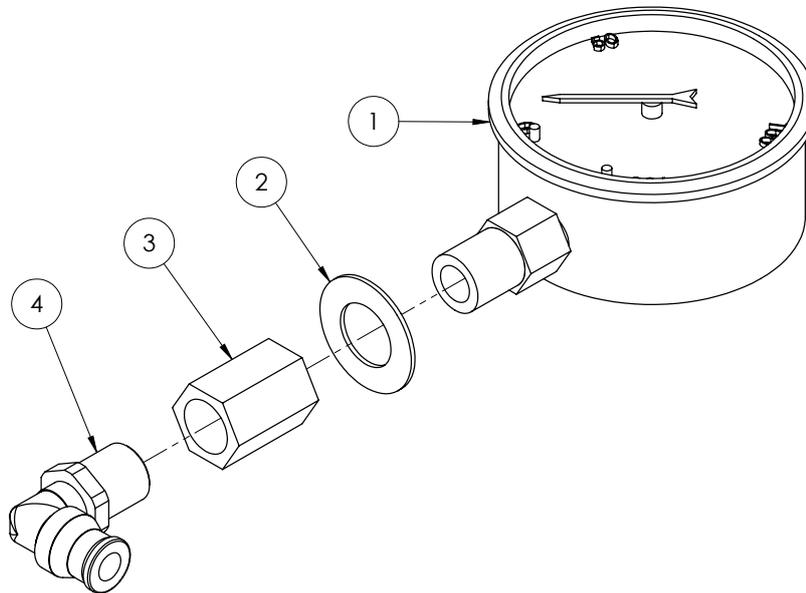
## Fresh Water Fill Tap



GA4903148-04 Fresh Water Fill Tap

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

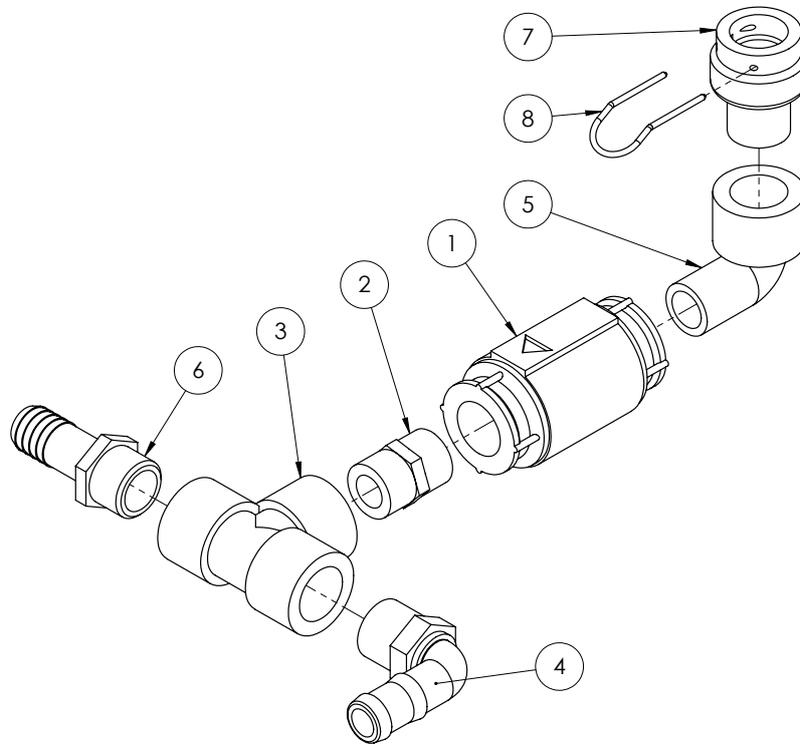
## Pressure Gauge



GA4903148-14 Pressure Gauge Assem

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 Brass 10x1/4 BSP	1

## Non Return Valve - Tank Rinse

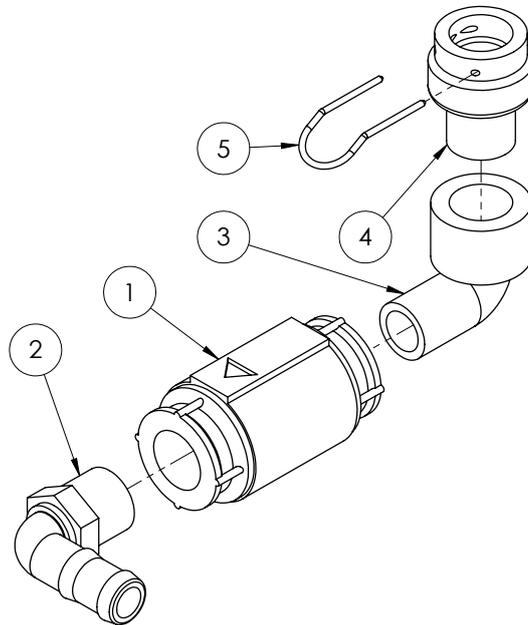


GA4903148-18 Non Return Valve - Tank Rinse

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 Valve - Fresh Water

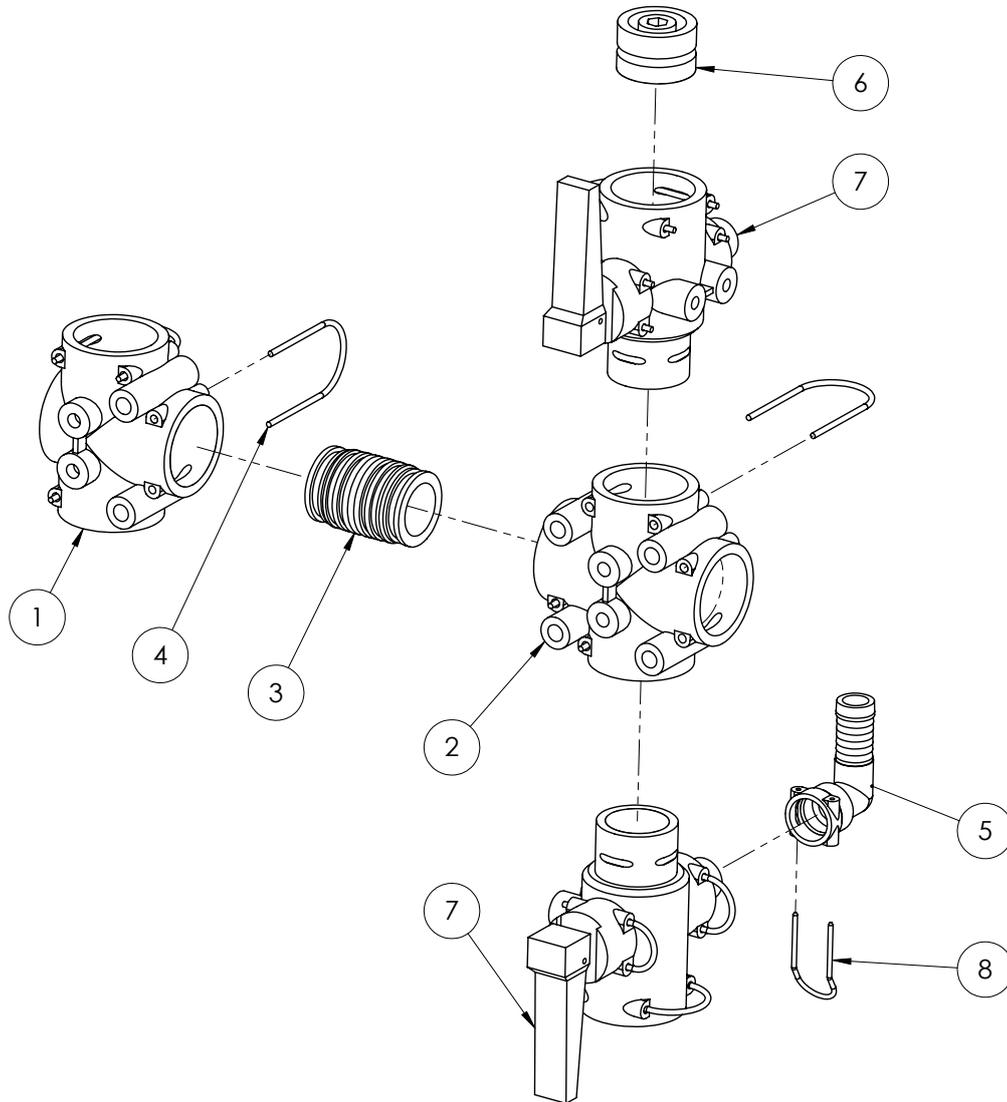
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GA4903148-19 Non Return Valve - Fresh Water

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

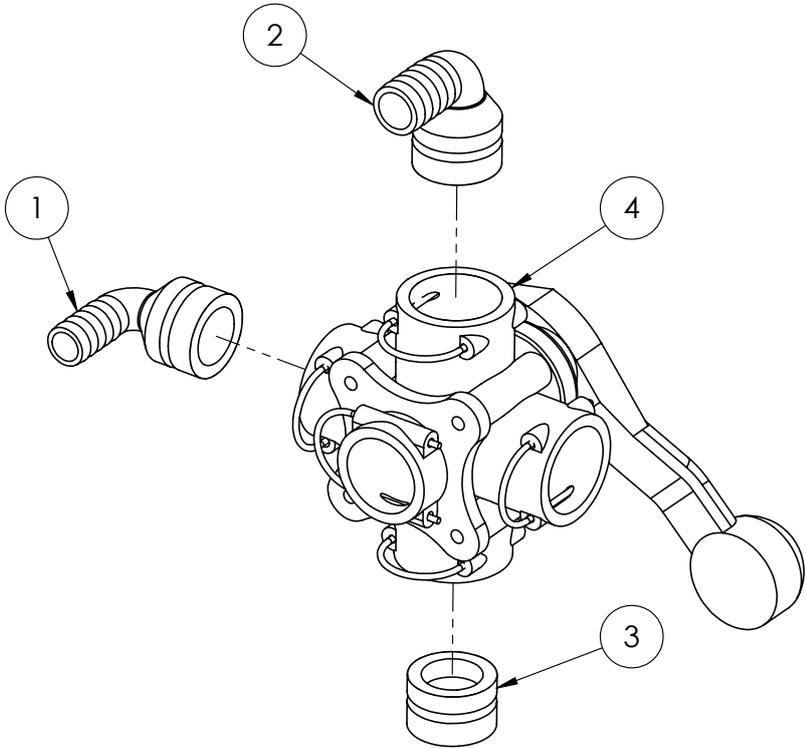
# Fill Manifold Sub Assembly



GA4903148-23 Fill Manifold Sub Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065560	T-piece 3xAS40 M8 inserts	1
2	GA5065565	Cross piece 4xAS40	1
3	GA5065735	Plug in hose tail AS40/AS40	1
4	GA5065690	Safety pin AS40	6
5	GA5065675	female hose tail AS24/20/90	1
6	GA5065680	Blind cap Plug AS40	1
7	GA5065545	Quick fit valve 2 WAY	2
8	GA5065695	AS24 Safety Pin	1

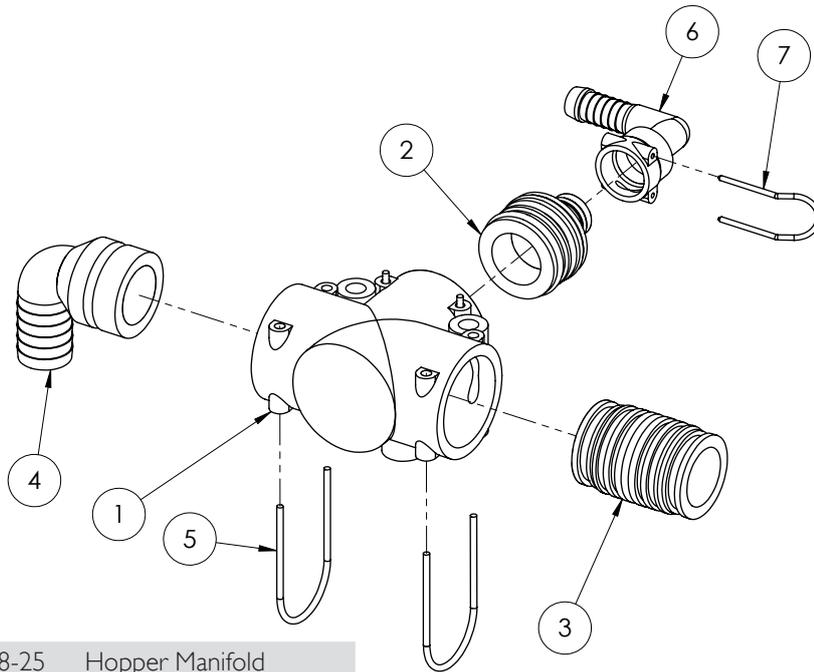
# 4 Way Valve



GA4903148-24 4WayValve

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065610	Plug in hose tail AS40/20/90 degree	1
2	GA5065615	Plug in hose tail AS40/25/90 degree	1
3	GA5065680	Blind cap Plug AS40	1
4	GA5065530	ball valve 5 WAY 1 1/4"	1

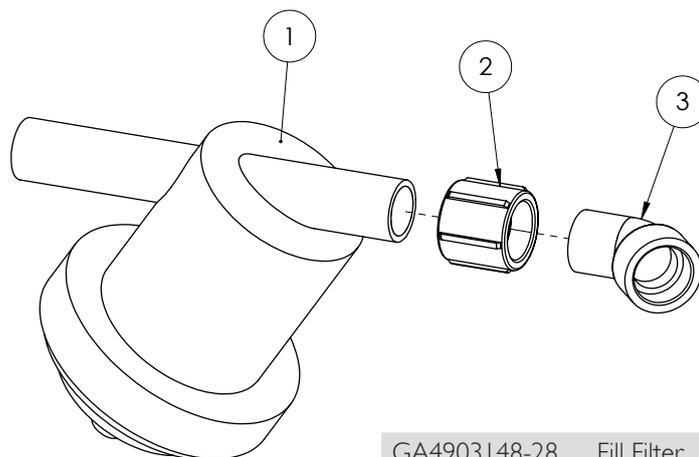
# Hopper Manifold



GA4903148-25 Hopper Manifold

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065555	T-piece 3xAS40 no M8 inserts	1
2	GA5065605	AS40 to AS24	1
3	GA5065735	Plug in hose tail AS40/AS40	1
4	GA5065615	Plug in hose tail AS40/25/90 degree	1
5	GA5065690	Safety pin AS40	3
6	GA5065750	female hose tail AS24/15/90	1
7	GA5065695	AS24 Safety Pin	1

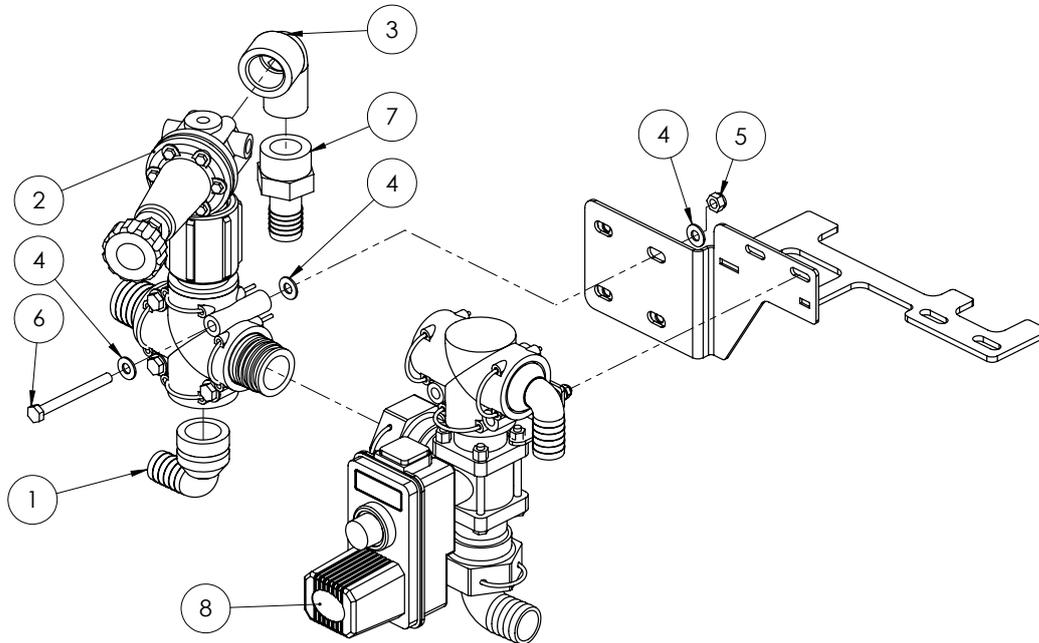
# Fill Filter



GA4903148-28 Fill Filter

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5001333	2" Fill filter with 50 mesh screen viton	1
2	CPLG200	2 poly pipe coupling	1
3	SL200-45	2" Street Elbow 45 degree	1

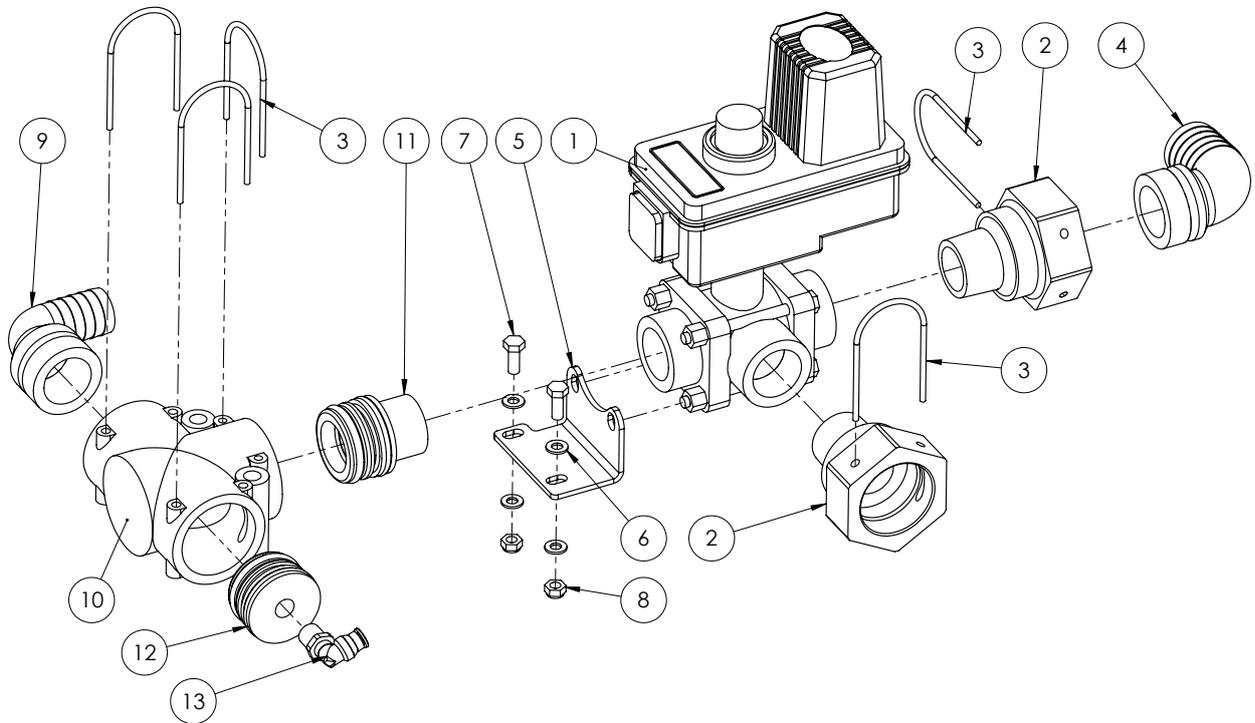
# Flow Control Valve Assembly



GA4906320 Flow Control Valve Assy

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065615	Plug in hose tail AS40/25/90 degree	1
2	GA4903287 - 02	Flo Control Safety Valve Sub Assembly	1
3	SL100-90	Street Elbow 1" Poly	1
4	GA5004883	Washer 8mm HD	12
5	GA5004917	M8 Nyloc Nut	4
6	GA5004749	M8x80 Bolt	4
7	HBFI00	1" Female Thrd X 1" Hose Shank	1
8	GA4903620-01	Prairie Eco Flow Control Valve Sub Assy	1

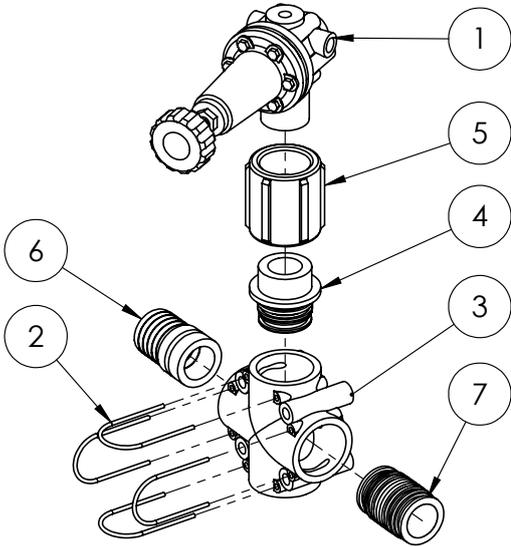
# Flow Control Valve



GA4906320-01 Flow Control Valve

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	344BR-34-03CEC	Teejet 3 way regulator valve 6 second	1
2	GA4582385	Coupling Altek AS40 to 1" NPT male thread	2
3	GA5065690	Safety pin AS40	5
4	GA5065620	Plug in hose tail AS40/33/90 degree	1
5	GA4505890	Bracket Teejet 3 Way Valve Flow Control Eco	1
6	GA5004437	M6 SS Washer	4
7	GA5004041	M6x16 bolt	2
8	GA5048115	M6 Nyloc Nut SS	2
9	GA5065615	Plug in hose tail AS40/25/90 degree	1
10	GA5065555	T-piece 3xAS40 no M8 inserts	1
11	GA5065600	AS40 to 1" Male Thread	1
12	GA4582160	Dummy plug AS40 G1/4 female	1
13	GA5016233	Swivel Elbow push in Steel 6mmx1/4 BSP (LEGRIS)	1

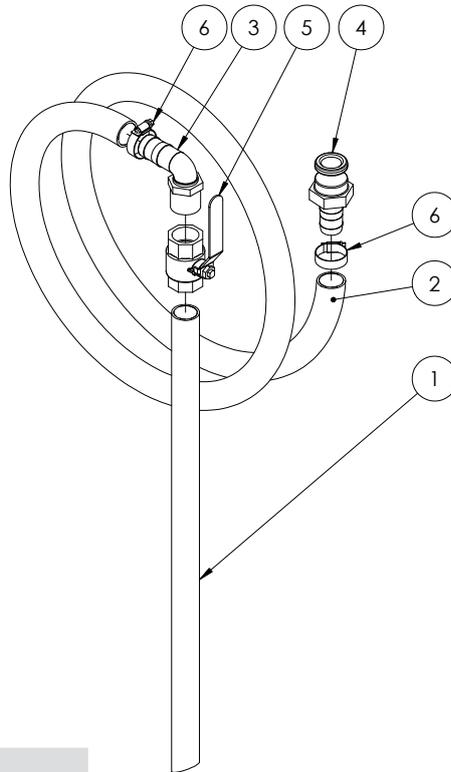
# Flow Control Safety Valve



GA4903287-02 Flow Control Safety Valve

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	200016	Safety valve 1" Red 15 bar polmac	1
2	GA5065690	Safety pin AS40	4
3	GA5065565	Cross piece 4xAS40	1
4	GA5065595	AS40 to 1/4" Male Thread	1
5	CPLG125	Coupling poly 1/4"	1
6	GA5065590	Plug in hose tail AS40/39	1
7	GA5065735	Plug in hose tail AS40/AS40	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

# Chapter 6

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DCI - N/A

## Chapter 7

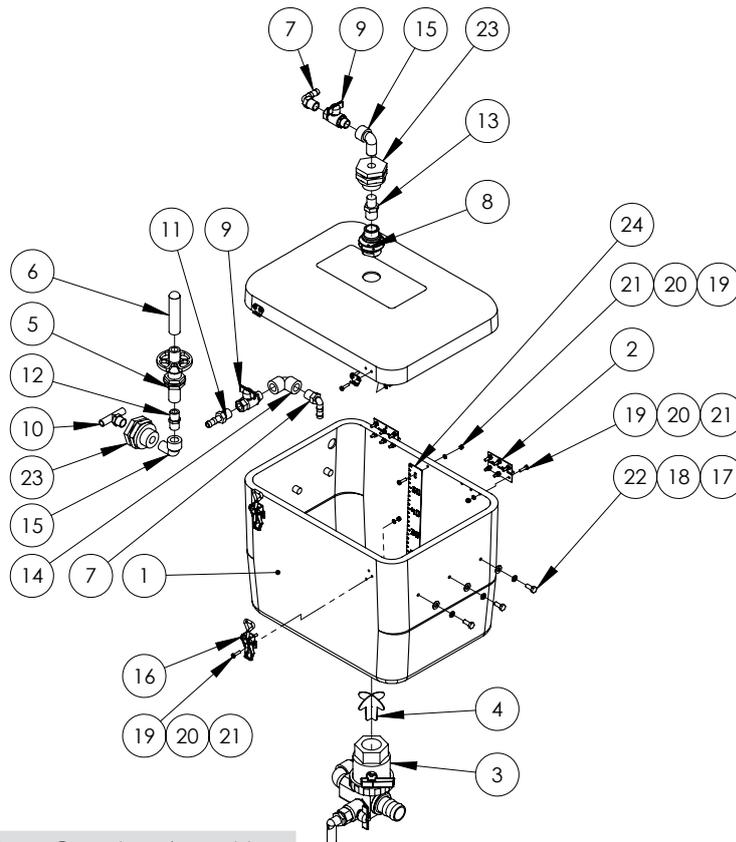
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DUAL PRODUCT - N/A

# Chapter 8

## INDUCTION HOPPER

### Hopper Tank



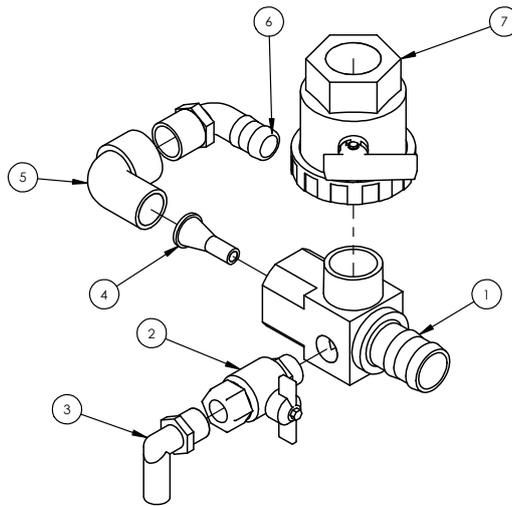
GA490038I-60-EF Complete Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070040	Hopper Tank And Lid - 60L	1
2	GA5006661	Hinge 76mm Butt Hinge SS	2
3	GA4903105	Induction Hopper Bottom	1
4	GA4657115	Induction hopper anti vortex cross	1
5	510100	Push down valve	1
6	510110	Tank Rinsing Nozzle 1/2" F thread	1
7	HB050-90	Hose Barb Elbow 1/2	2
8	L033A	Tank Rinsing Spray Nozzle	1
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	RN075050	Reducing Nipple 3/4" x 1/2"	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 60L	1
25	GA5016473	Foam Tape - Cut 2000 long (not shown)	1

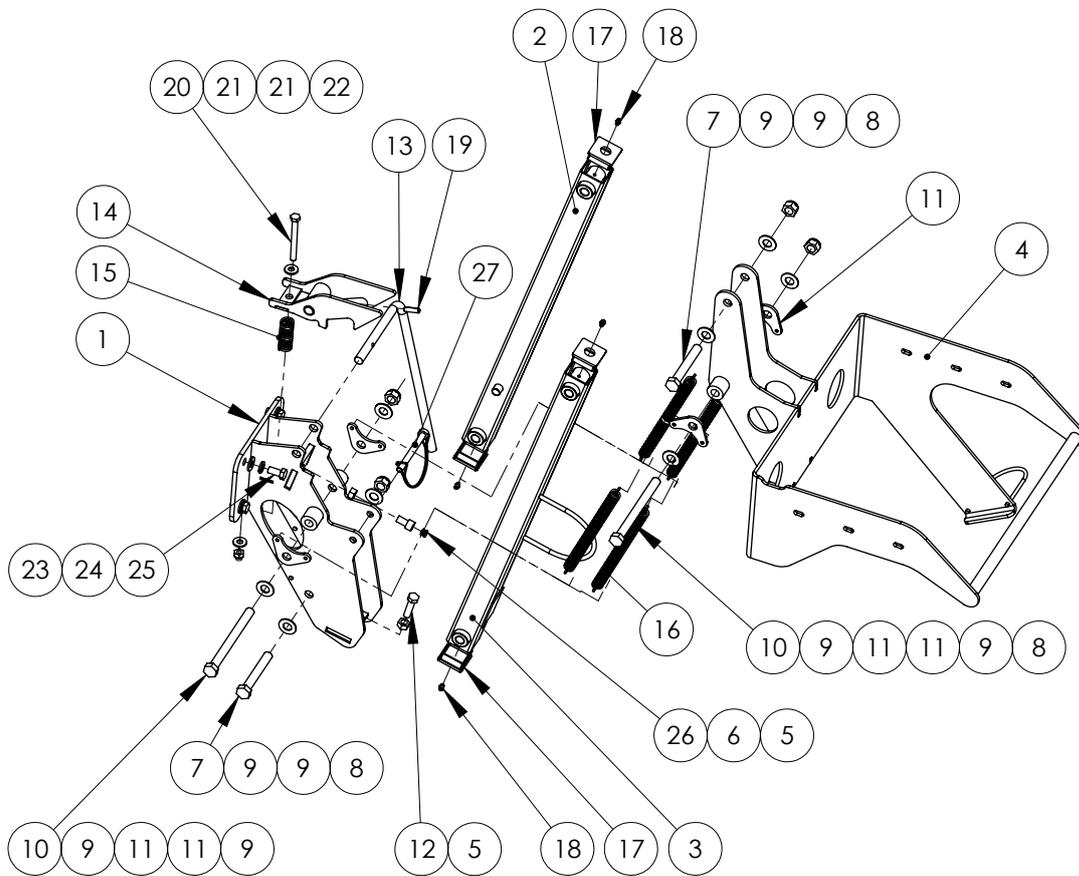
## Hopper Tank - Bottom



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	GA4572150	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	GA5050330	M12x20 unbrako	1
7	GA5000855	Bolt M16 x 110 ZP GR8.8	2
8	GA5001029	M16 Nyloc nut	4
9	GA5001009	M16 washer Zink coated	8
10	GA5000879	Bolt M16 x 180 ZP GR8.8	2
11	GA4522294	Prairie EF induction hopper x2 Spring mount	4
12	GA5000327	Set Screw M12 x 45 ZP GR8.8	1
13	GA4699435	Latch handle SP hopper 201 I	1
14	GA4653490	INDUC HOP latch ADV	1
15	GA5007329	Compression spring gold	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	GA5011139	M10x100 Bolt	1
21	GA5000117	Washer 10mm SS Heavy duty	2
22	GA5000141	M10 Nyloc Nut	1
23	GA5000587	M12 WASHER	4
24	GA5000575	M12 Spring washer SS	4
25	GA5000295	Set screw HT M12 x 25	4
26	GA5052905	Insert t/s 12mm Hole	1
27	GA5048380	Pin shaft locking 11mm	1

## Chapter 9

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FOAM MARKER TANK - N/A

# Chapter 10

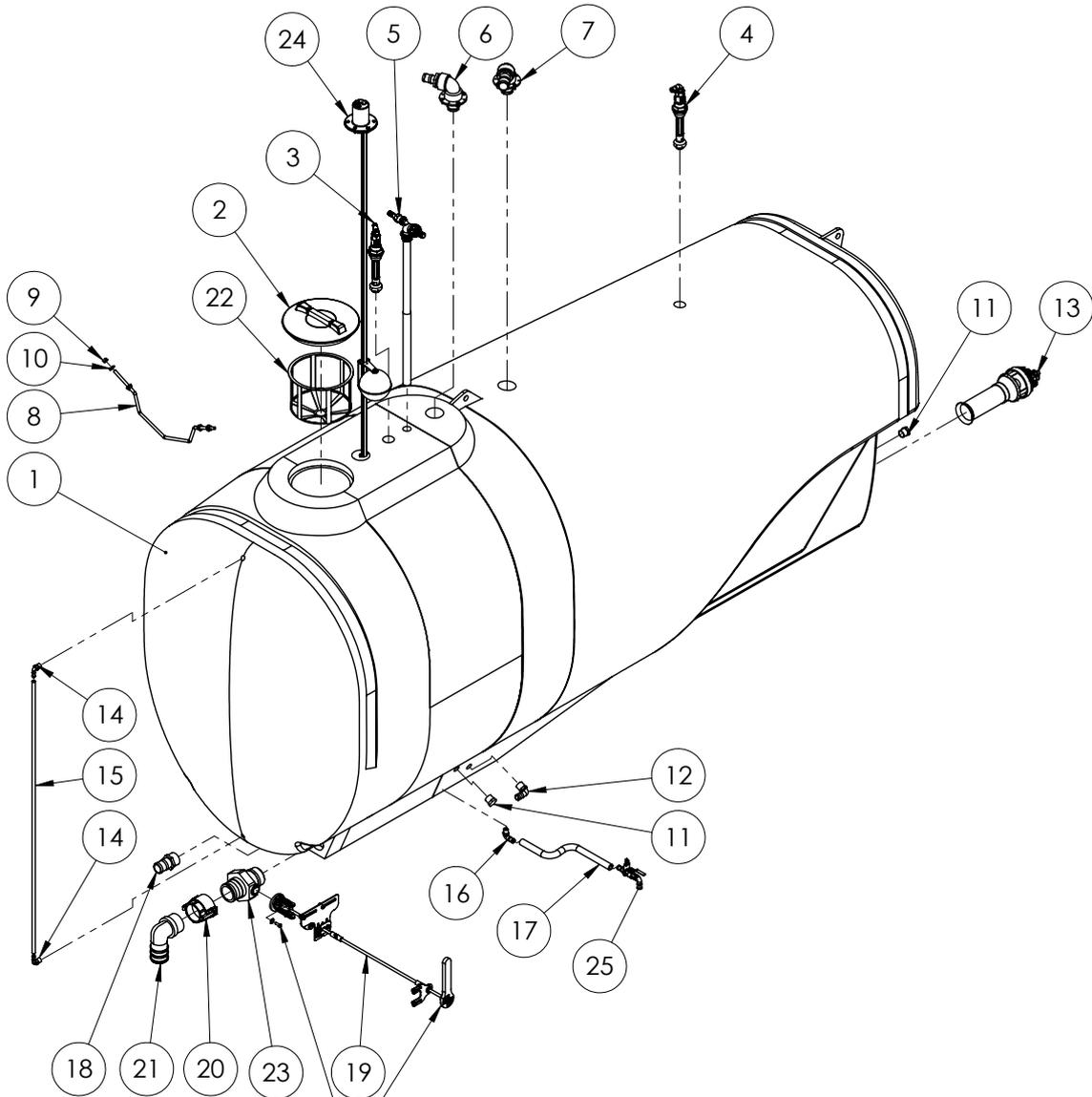
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TRANSCAL - N/A

# Chapter 11

## MAIN TANK

### 6500 litre tank assembly



Included with tap (VSFMT300)

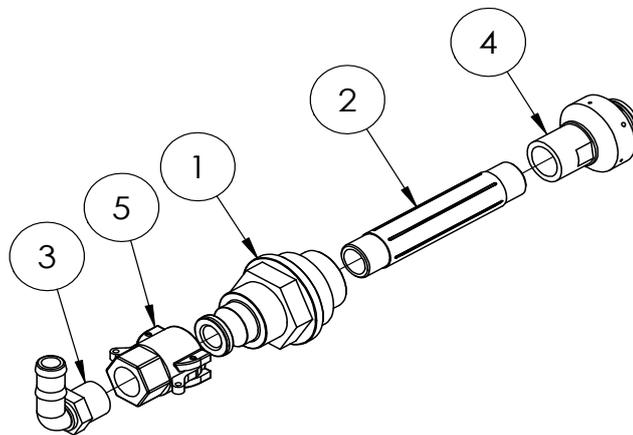
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070100	Tank Evo 6500L bare (no holes)	1
2	352040	Medium Lid D355 c/w Breather	1
3	GA4901285-2	Tank flushing nozzle (tee) cam adaptor	1
4	GA4901285-1	Tank flushing nozzle (elbow) cam adaptor	1
5	GA4903086	Pre-assembled Venturi Filler	1
6	GA4903098	Hopper Tank Inlet	1

*Continued over page*

## 6500 litre tank assembly

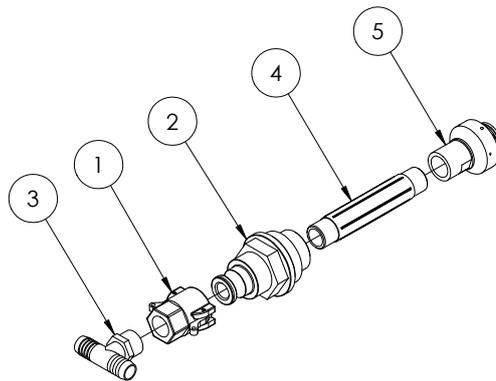
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	GA4903136	2" Tank Fill	1
8	GA4672885	Tank support bar suit EF tanks	1
9	GA5000581	M12 SS nut	4
10	GA5000587	M12 WASHER	4
11	PLUG100	Plug 1" Banjo	2
12	HB100-90	Hose barb 90 degree 1" Banjo	1
13	GA4903096	Pre-assembled super mix agitator	1
14	HB050-90	Hose Barb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

## Tank Flush Elbow



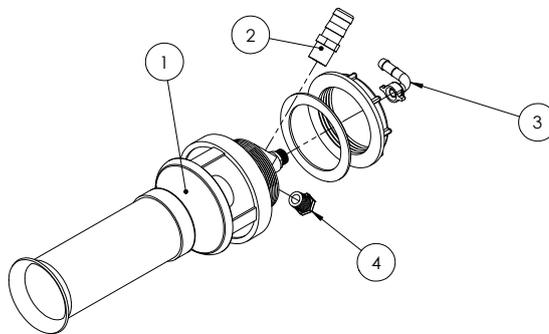
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
		Complete Sub Assembly	1
1	GA4572015	Tank rinse adaptor with cam lock	1
2	NIP075-6	3/4" X 6" Poly Nipple	1
3	Elbow HB075-90	Hose barb elbow 3/4" thread 3/4" barb	1
4	B55270-34-18	Tank rinse nozzle 3/4 BSP	1
5	75D	Female Coupler 3/4 female Thread	1

## 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

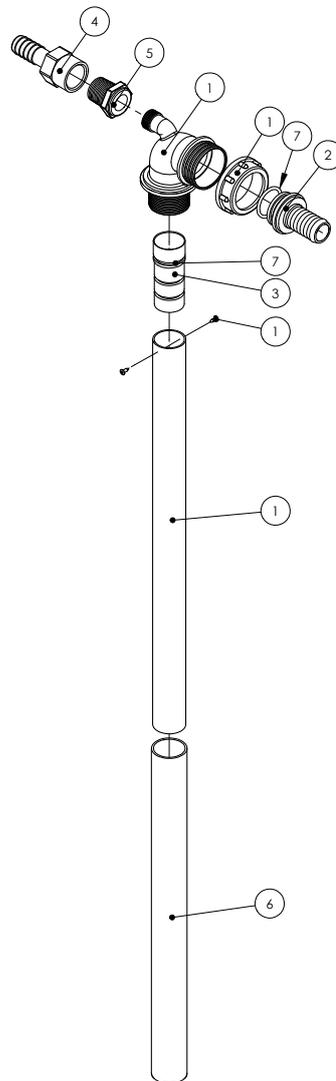
## Supermix Agitator



**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

# Venturi Filler



**Note:**

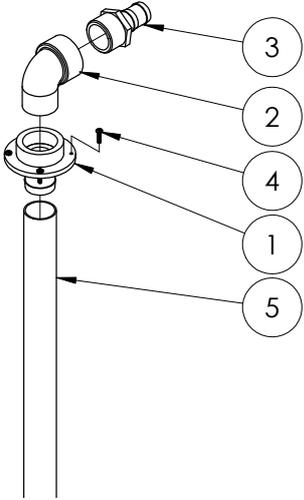
1 x GA5007235 Cobra Clamp 36.0/91.4310 Not Shown

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

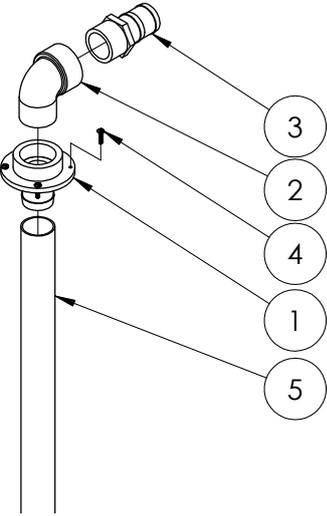


**Note:**  
 1 x GA5003325  
 2 x 2" SS hose clamp  
 Not shown

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

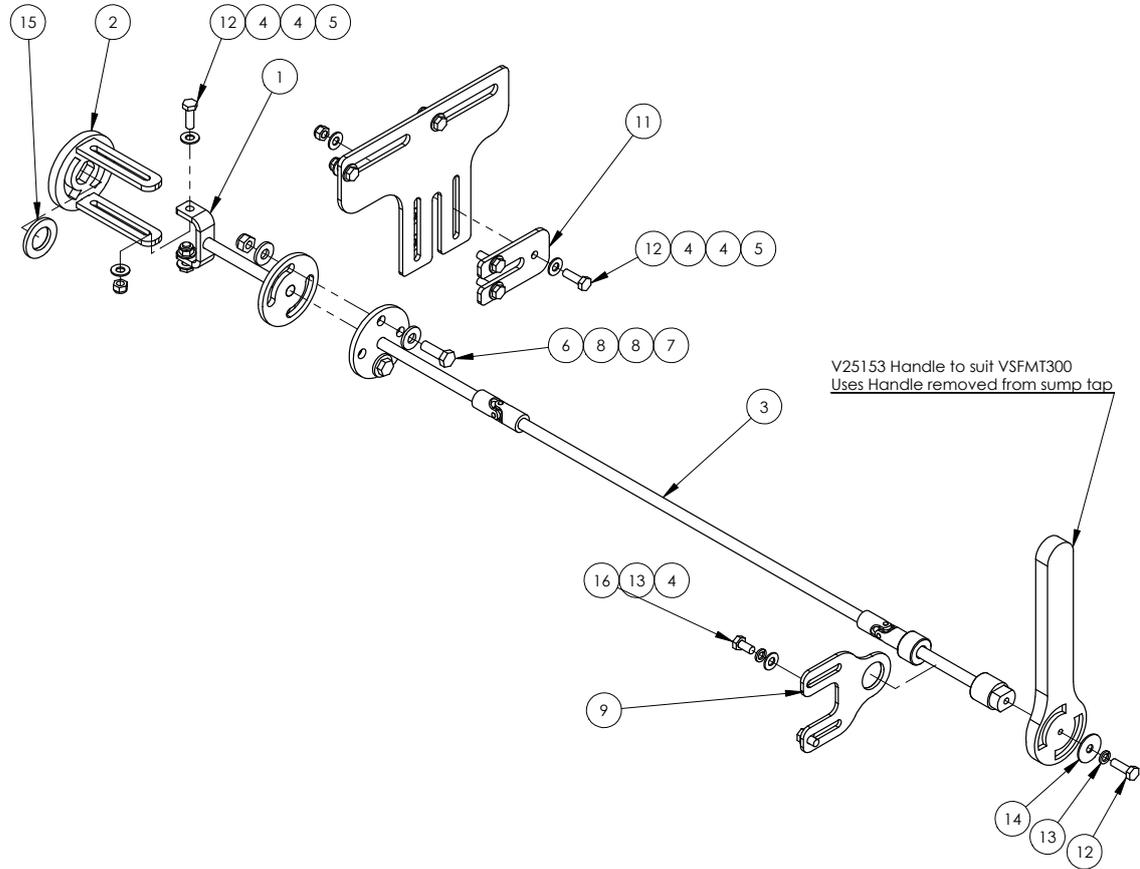


**Note:**  
 1 x GA5003325  
 2 x 2" SS hose clamp  
 Not shown

GA4903136 Complete 2" tank fill assembly

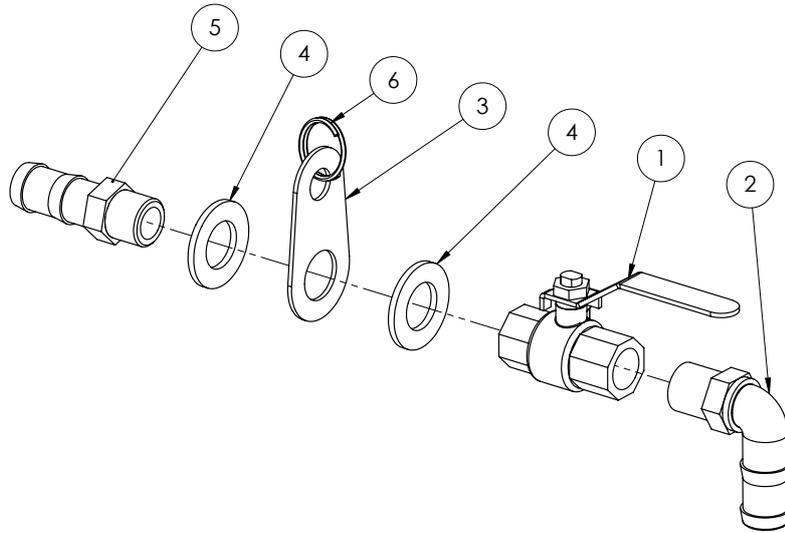
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L026A	Barb to suit tank top	1
2	SE200	Elbow 2 street 2 male to 2 female	1
3	HB200	Straight Hose Barb 2"	1
4	GA5000527	Screw 12G x 1 XR STS Pan SS	4
5	GA4673860	50mm PVC Hose cut 1550mm	1
	GA5003325	Stainless Steel 2" Clamp (not shown)	1

# Remote Drain



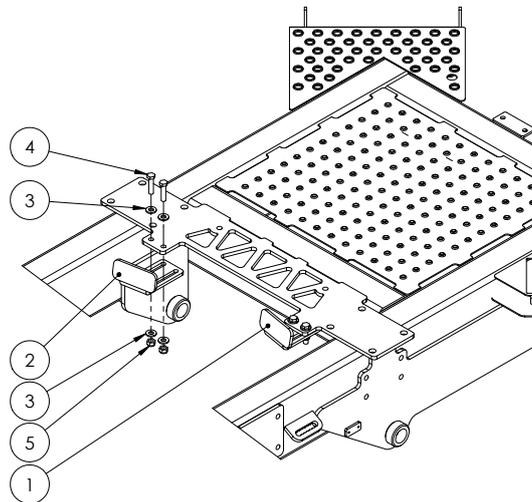
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653657	Sump ball valve inter drive shaft EF	1
2	GA4653656	Sump ball valve drive flange EF	1
3	GA4653658	Sump ball valve drive shaft EF	1
4	GA5004883	Washer 8mm HD	16
5	GA5004917	M8 Nyloc Nut	7
6	GA5065455	Bolt Gr8.8 M10x30	2
7	GA5000141	M10 Nyloc Nut	2
8	GA5000117	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 I-4 Flat washer SS	1
15	GA5001893	M24 Washer HD SS	1
16	GA5011465	M8x16 bolt H/T	2

## Sump Drain Tap



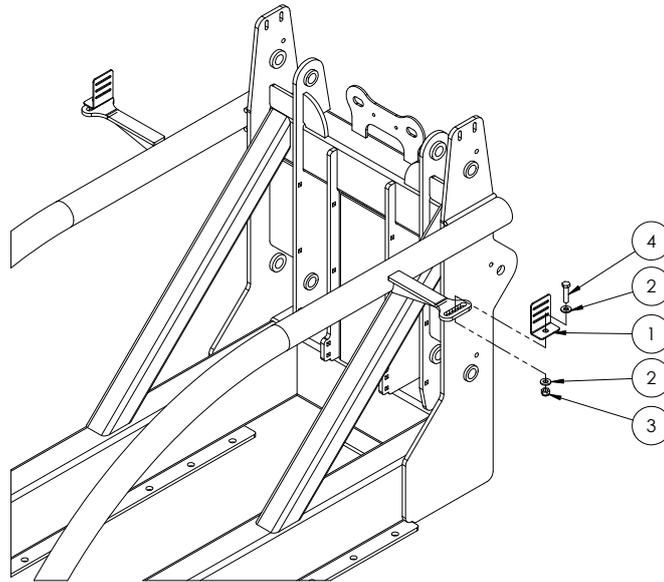
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018309	12mm Ball valve	1
2	HB050/075-90	90° Poly Hose Barb Elbow 1/2 x 3/4	1
3	F70565A	Sump drain mounting plate	1
4	GA5001739	M20 Heavy Duty Flat Washer	2
5	HB050-075	1/2" Male Thd X 3/4" Hose barb	1
6	GA5002077	25mm Key Ring S/S	1

## 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

# Tank Straps & Brackets

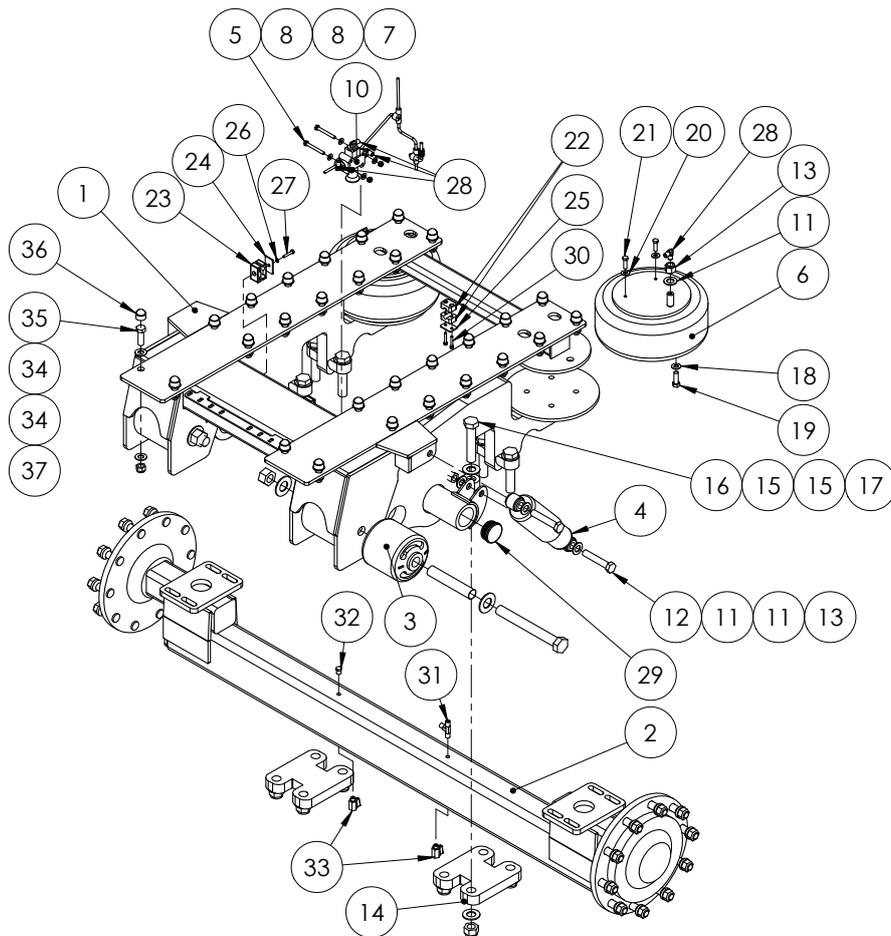


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70127A	50mm Tank Strap Bracket	4
2	GA5000587	M12 WASHER	8
3	GA5012461	M12 Nyloc nut Z/P	4
4	GA5011239	M12x50 bolt	4
	GA5003859	Tank Strap - Order per metre	N/A

# Chapter 12

## WHEELS, AXLES & MUDGUARDS

### Air Bag Axle



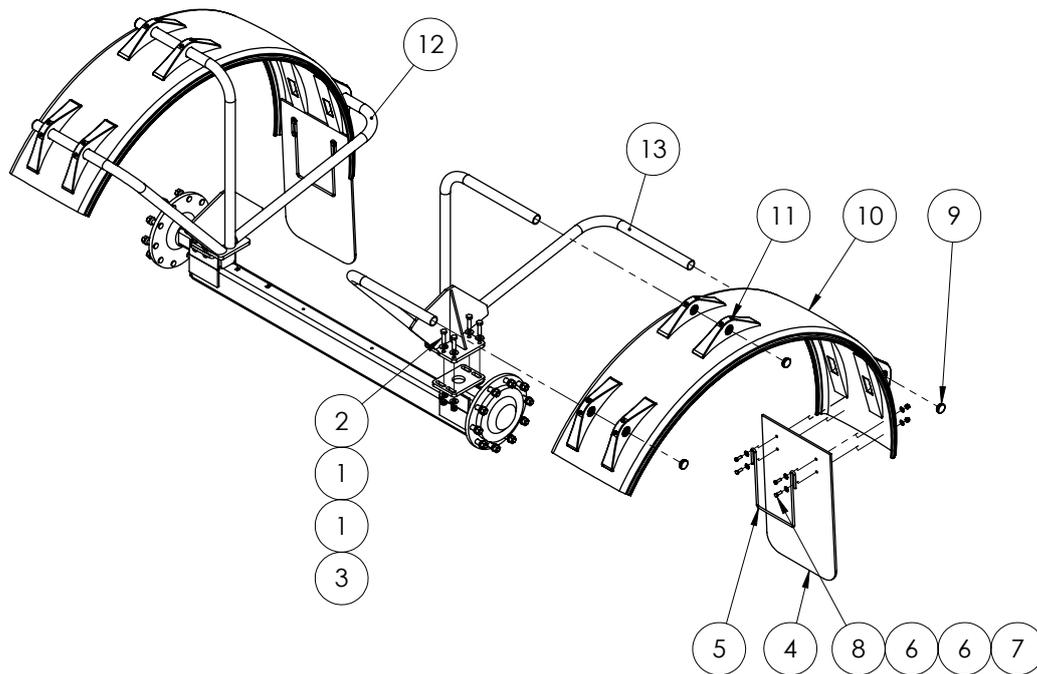
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652810	Prairie/Advance EF Airbag frame	1
2	GA4656930	Axle EF AirBag 2100mm 10 Stud	1
3	GA5066455	Trifunctional bush suit ADV EF	2
4	GA5015139	High control shocker	2
5	GA5004738	Bolt M8 x 70 HT ZP	2
6	GA5005311	Air spring HT230 single air stud	2
7	GA5004917	M8 Nyloc Nut	2
8	GA5004883	Washer 8mm HD	4
9	GA5002539	3/4 Z/P Comm Flat Washers	1

## Air Bag Axle

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
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	1" x 5" UNC Bolt (2050mm axles)	8
	GA5006151	1" x 8" UNF Bolt (3000mm axles)	
17	GA5012439	1" Nyloc Nut UNC ZP (2050mm axles)	8
	GA5012445	1" Nyloc Nut UNF ZP (3000mm axles)	
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

# 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	GA5011949	Goldacres Mudflap	2
5	GA5075070	Anti sail mudguard bracket	2
6	GA5002565	Washer 3/8 x 1" Flat SS	16
7	GA5011133	Nut M10 Dome nut SS	8
8	GA5006145	M10 x 30 SS Bolt	8
9	GA5003925	Insert round 45mm x 0.8 - 3.0mm	6
10	GA5066976	Mudguard 510W x R1010 - Suits 18.4x38 & 20.8x42 tyres	2
	GA5004263	Mudguard 630W x R1000 - Suits 24.5x32 & 30.5x32 tyres	
11	GA5066977	Mudguard Mounting Bracket Dunloflex (H50.660)	12
12			1
13		Refer to tables below for mudguard bracket part numbers	1

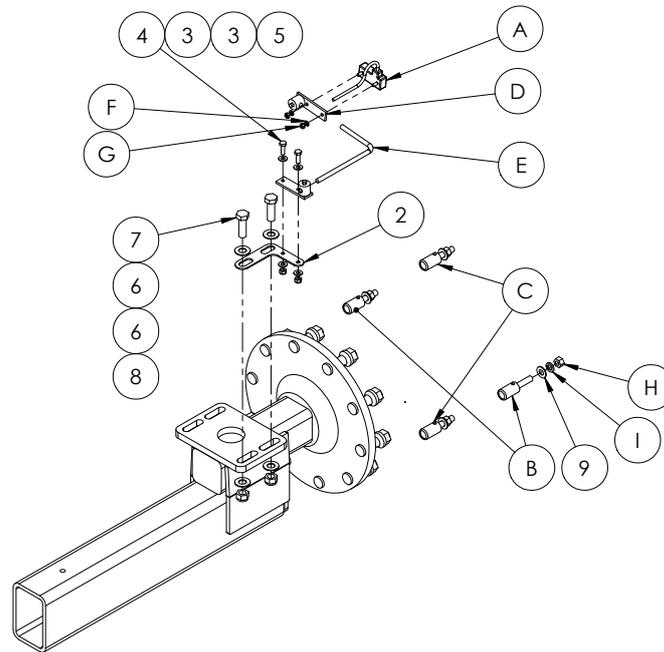
## 38" Wheels, Air Bag Axle

Part No	Description
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

## 42" Wheels, Air Bag Axle

Part No	Description
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

# Wheel Speed Sensor

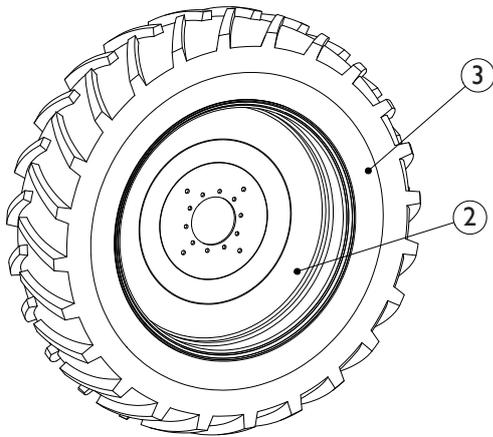


Wheel speed sensor kit 0630171152

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

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

# 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.

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	GA5001108	18.4x38 Tyre 16 ply

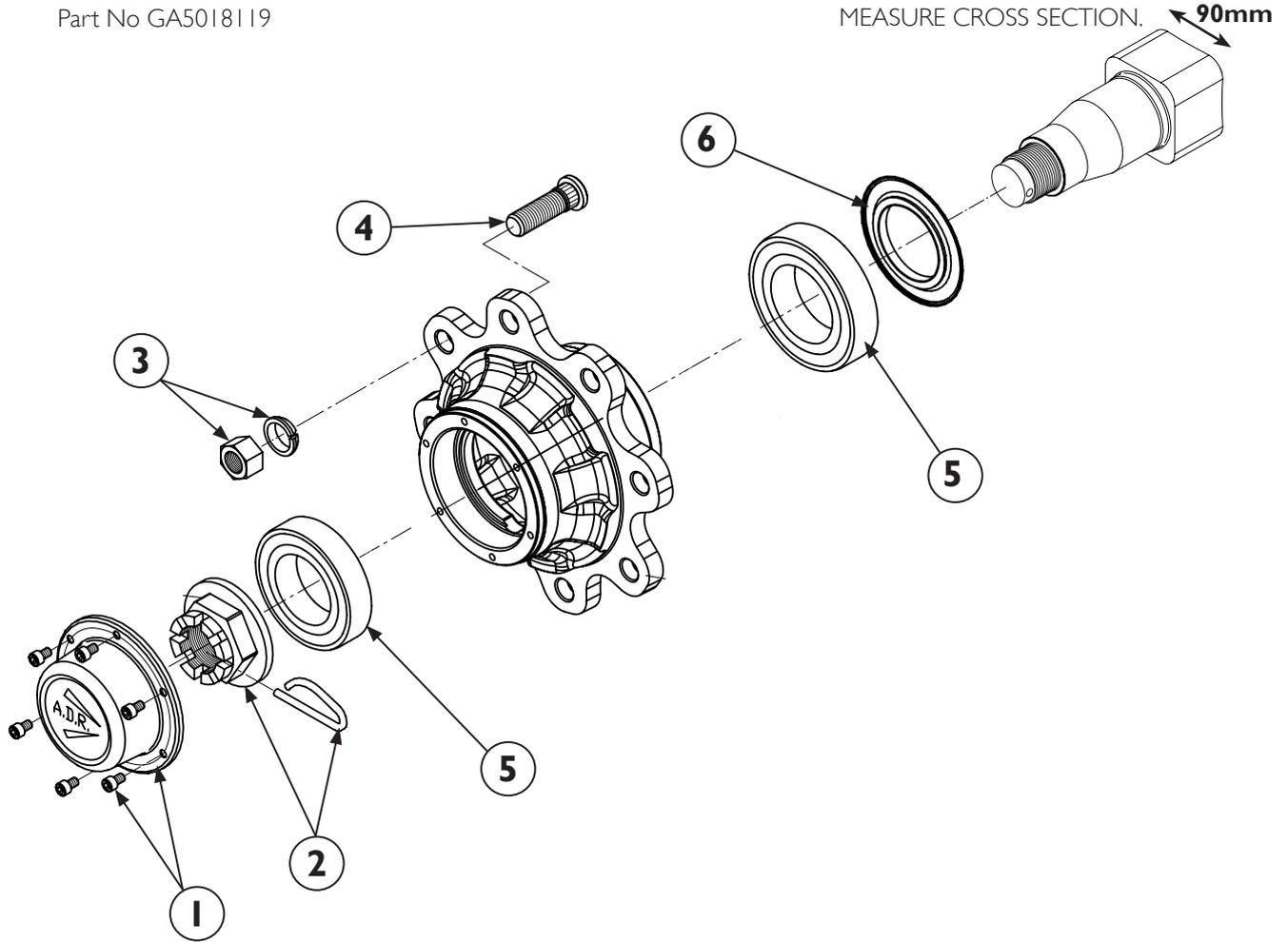
20.8 x 42 wheels		
Item	Part number	Description
1	GA4901415	Complete wheel and tyre
2	GA5001105	42" x 18" Wheel, 10 stud, 0 offset
3	GA5020830	20.8x42 Tyre 16 ply

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

# Hub - 90 Series

Complete 90 Series Hubs/Stub Axles Available  
Part No GA5018119

TO DETERMINE SIZE/SERIES,  
MEASURE CROSS SECTION.



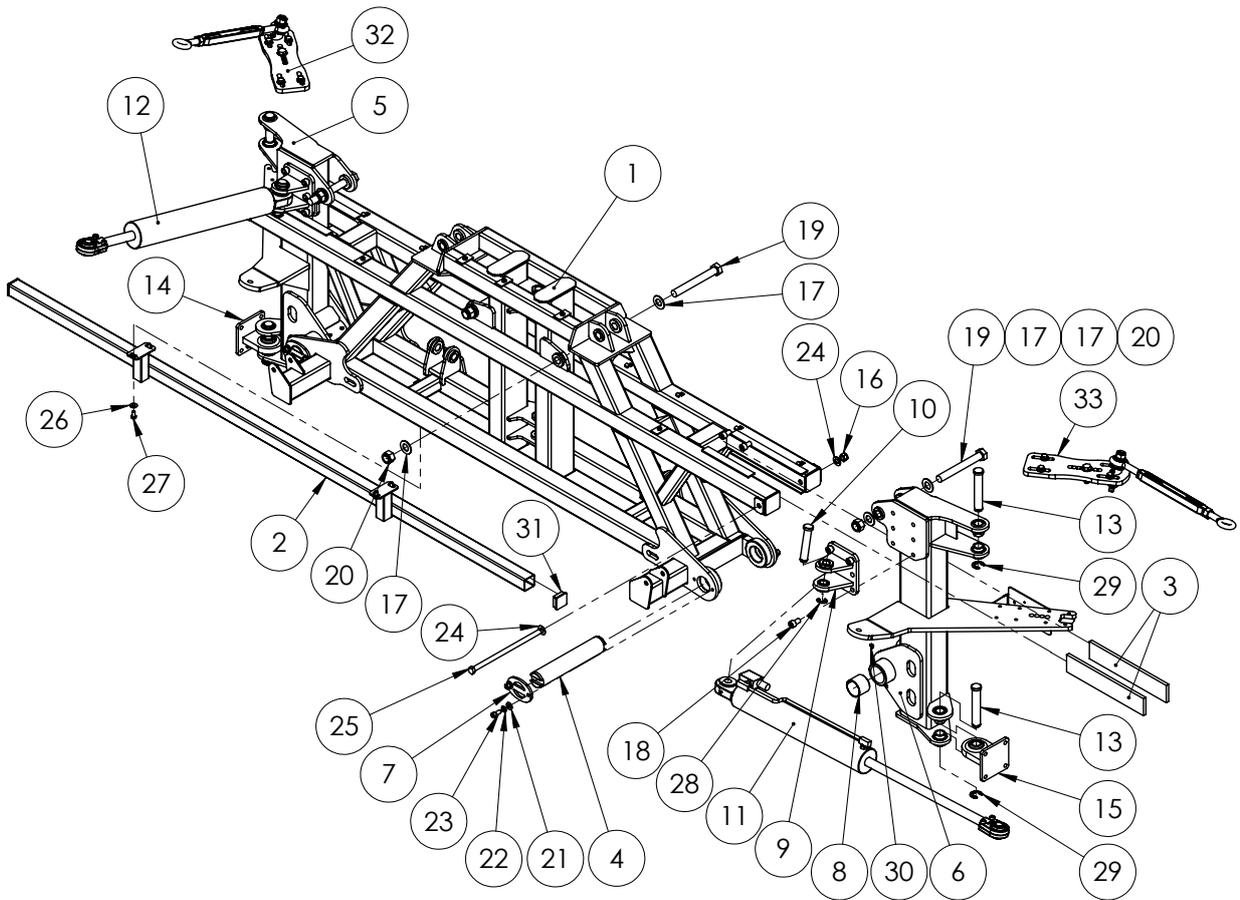
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5052120	90 Series Cap Kit	1
2	GA5052190	80/90 Series Crown Nut Kit	1
3	GA5052165	90/110 Series Nut Kit	1
4	GA5052205	90 Series Stud Kit	1
5	GA5052200	90 Series Bearing Kit	1
6	GA5052195	90 Series Heavy duty seal	1



# Chapter 13

## BOOM CENTRE

### Boom Centre Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658120	Centre section 201 I	1
2	GA4658145	Spray bar suit 201 I center section	1
3	GA5075090	Center wear strip polystone 7000SR 380 x 74 x 12mm	4
4	GA4572365	Tilt pin suit wide centre	2
5	GA4658125	201 I Boom centre tilt arm RH	1
6	GA4658130	201 I Boom centre tilt arm LH	1
7	GA4502280	pin retainer	4
8	GA5075060	Glacier Bush 60mm ID x 50mm long	4

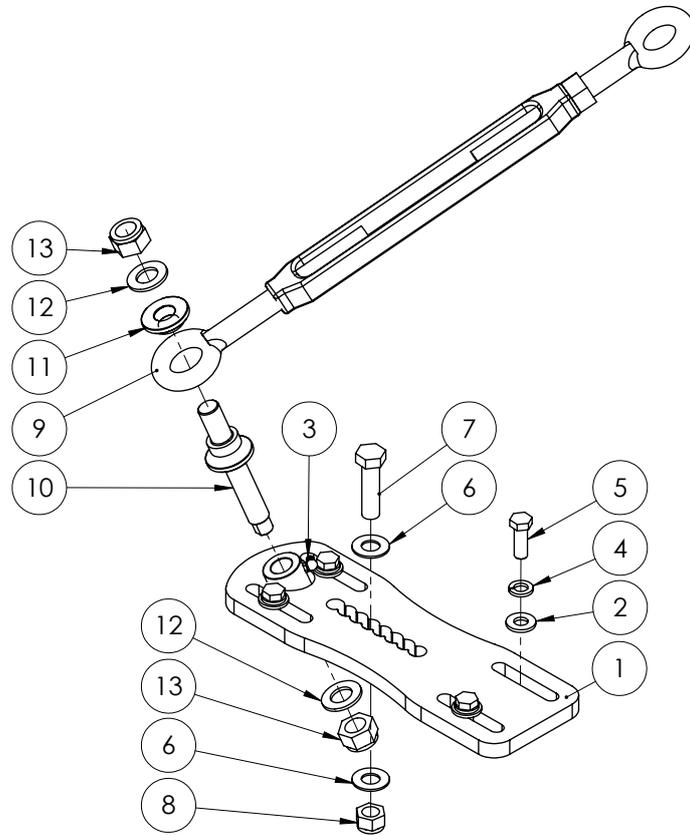
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## Boom Centre Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
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	2
17	GA5017659	Washer 1" Flat HD ZP	8
18	GA5000905	M16x25 SHCS	12
19	GA5006151	1" x 8" UNF Bolt	4
20	GA5012445	Nut nyloc 1" UNF	4
21	GA5000587	M12 WASHER	8
22	GA5000575	M12 Spring washer SS	8
23	GA5000297	SHCS M12 x 25 ZP	8
24	GA5001009	M16 washer Zink coated	4
25	GA5075125	M16x330 bolt	2
26	GA5000117	Washer 10mm SS Heavy duty	4
27	GA5006113	Bolt M10x20 ZP 8.8	4
28	GA5001223	19mm E type circlip	2
29	GA5001883	E-clip 24mm	4
30	GA5012203	Grease Nipple 1/4" UNF Short	4
31	GA5003783	50x50mm 0.8-2.5 Insert Cap	2
32	GA4922220	Rear cable mount 24-36m RH MY13	1
33	GA4922225	Rear cable mount 24-36m LH MY13	1

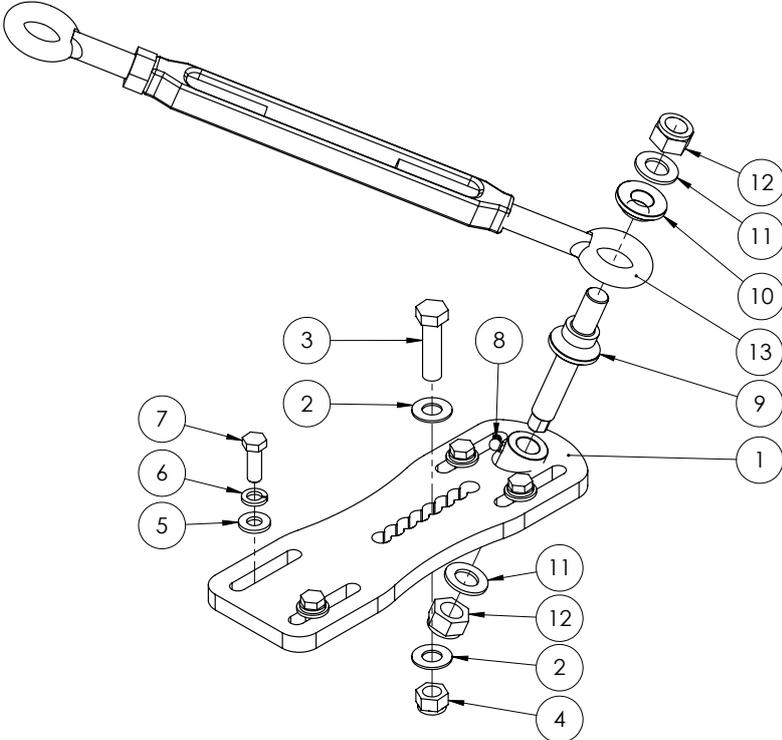
SHIMS AVAILABLE	
Fold Ram Mount Shims	
GA4513041	Fold ram mount plate shim (large)
Boom Pivot Shims	
GA4535360	Boom rose joint shim (5mm)
GA4535355	Boom rose joint shim (3mm)
GA4535285	Boom Lower Rose End Shim 1mm

## Cable Mount - Rear LH



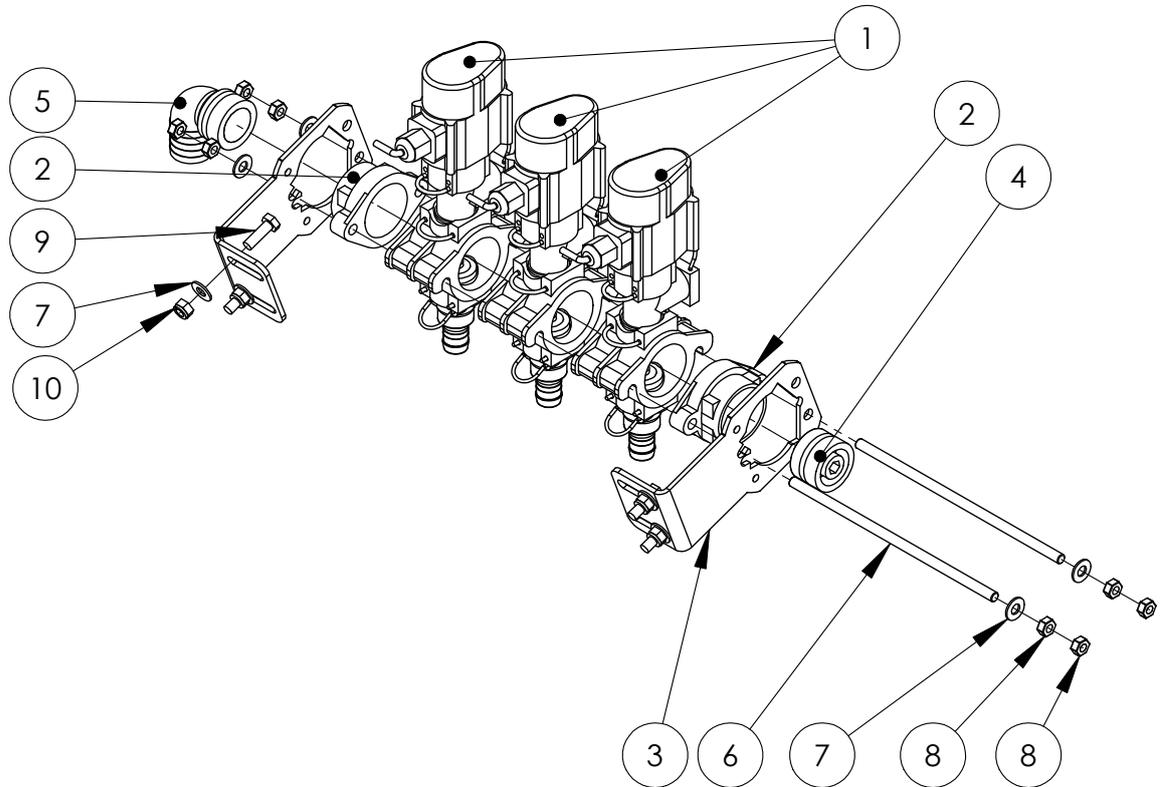
ITEM NO	PART NUMBER	DESCRIPTION	QTY.
1	GA4656255	Boom cable tension adjust 24+ LH	1
2	GA5000587	M12 WASHER	4
3	GA5009639	Grease nipple long 1/4" UNF	1
4	GA5000575	M12 Spring washer SS	4
5	GA5000311	M12x35mm Set Screw	4
6	GA5001009	M16 washer Zink coated	2
7	GA5000939	M16x60 bolt	1
8	GA5001029	M16 Nyloc nut	1
9	GA5017061	Turnbuckle FRG COMM GAL E/E 22mm with nut	1
10	GA4572510	Boom cable pivot pin MY13	1
11	GA4572515	Boom cable pivot pin retainer MY13	1
12	GA5001739	M20 Heavy Duty Flat Washer	2
13	GA5048125	M20 Nyloc nut	2

# Cable Mount - Rear RH



ITEM NO	PART NUMBER	DESCRIPTION	QTY.
1	GA4656250	Boom cable tension adjust 24+ RH	1
2	GA5001009	M16 washer Zink coated	2
3	GA5000939	M16x60 bolt	1
4	GA5001029	M16 Nyloc nut	1
5	GA5000587	M12 WASHER	4
6	GA5000575	M12 Spring washer SS	4
7	GA5000311	M12x35mm Set Screw	4
8	GA5009639	Grease nipple long 1/4" UNF	1
9	GA4572510	Boom cable pivot pin MY13	1
10	GA4572515	Boom cable pivot pin retainer MY13	1
11	GA5001739	M20 Heavy Duty Flat Washer	2
12	GA5048125	M20 Nyloc nut	2
13	GA5017061	Turnbuckle FRG COMM GAL E/E 22mm with nut	1

# 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

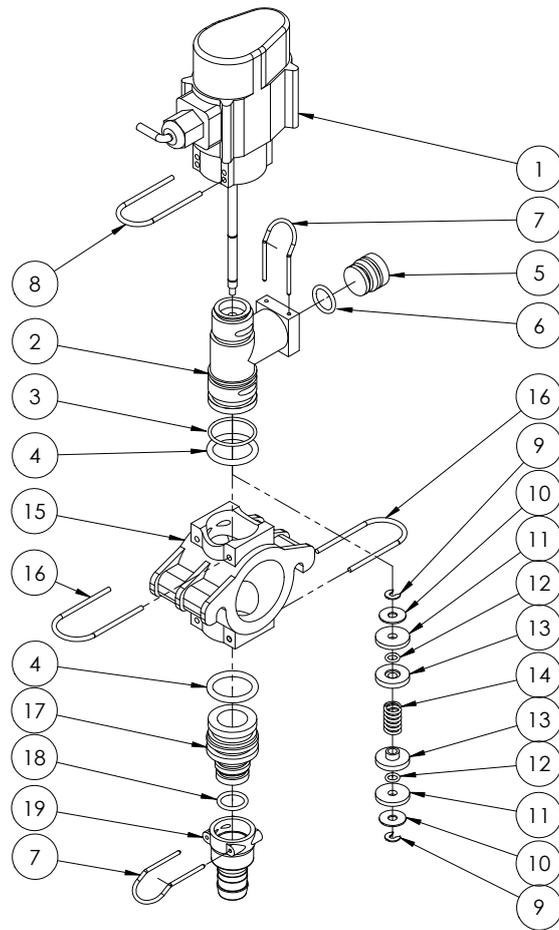
GA5065705 6 Section Boom Valves

GA5065706 7 Section Boom Valves

GA5065710 8 Section Boom Valves

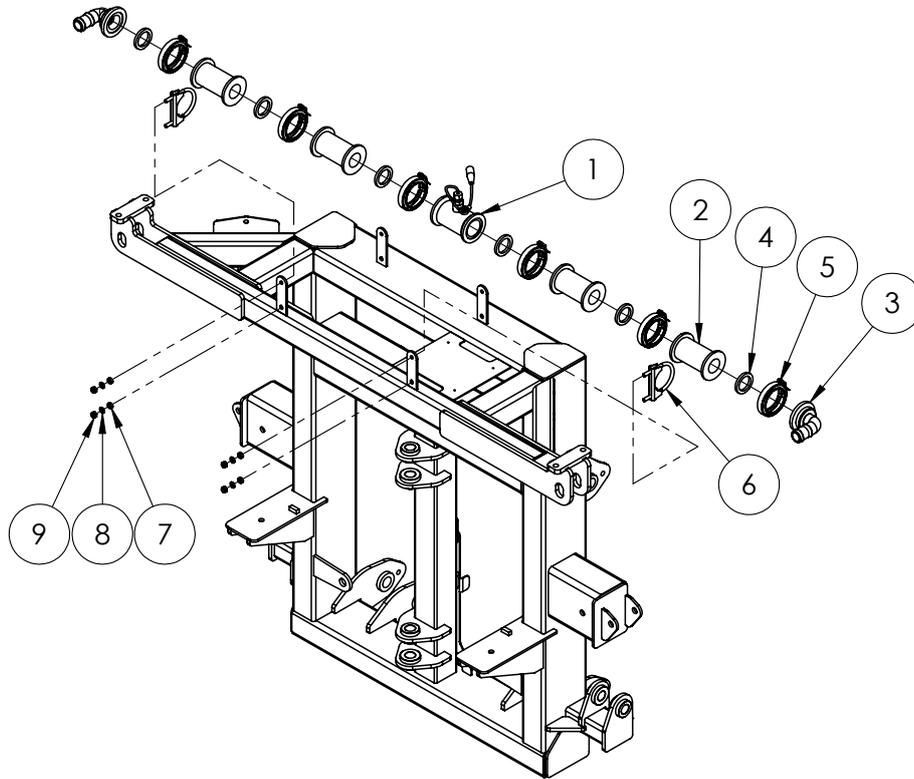
Note: Boom valve assemblies do not come with plumbing fittings.

# 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 I	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

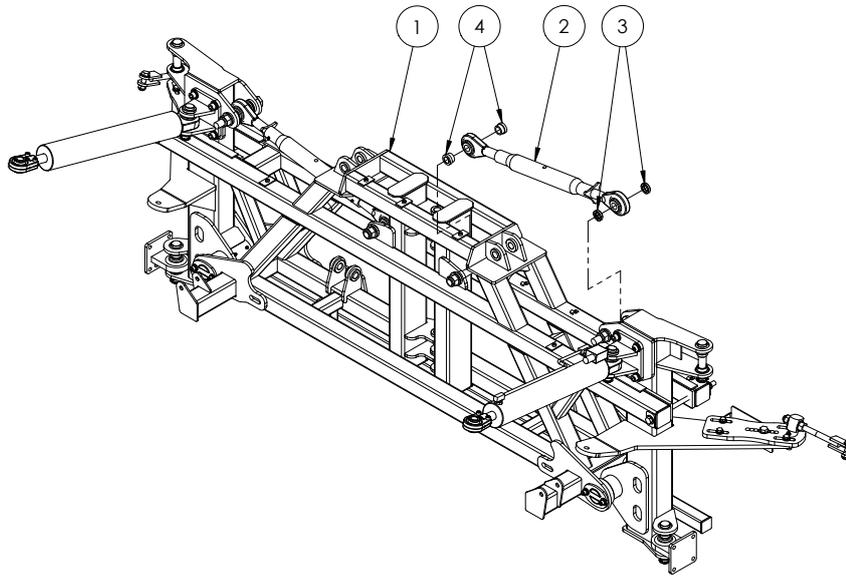
# Flow Meter Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	630171793	FLOWMETER RFM-60P	1
2	M200CPG	2" flanged spacer	4
3	M200125BRB90	2"Manifold X 1-1/4 Barb 90 Deg	2
4	GA5009335	Gasket Kamlock Nitrile I 1/2 FIT150	6
5	FC200	200 Series Std Screw Clamp	6
6	GA5006689	Exhaust clamp - 66mm C12	2
7	GA4552080	crush tube 10.2x15x5	4
8	GA5003643	Washer 8mm SS HD	4
9	GA5052590	Nut M8 Nyloc S/S 316	4

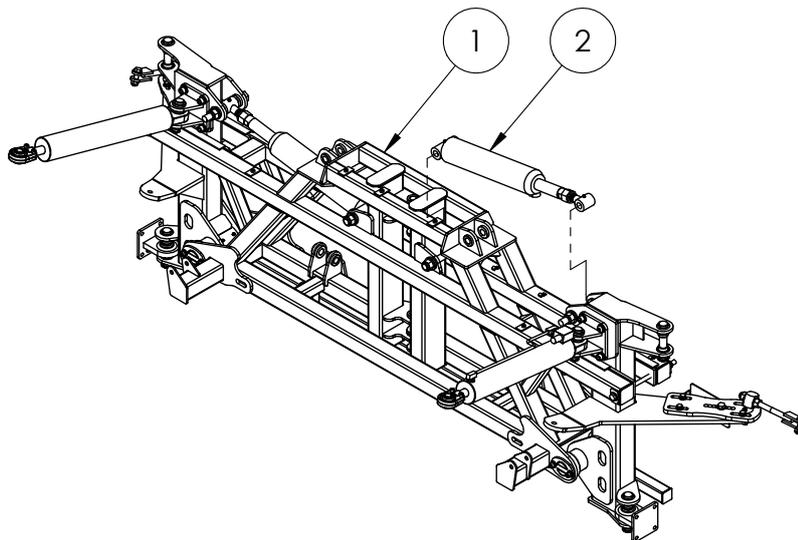
FLOW METER PARTS	
063-0171-793	Flow meter assembly
106-0159-514	Flow meter Body only
063-0171-669	Flow meter sensor only

## Centre With Tilt Replacement Links



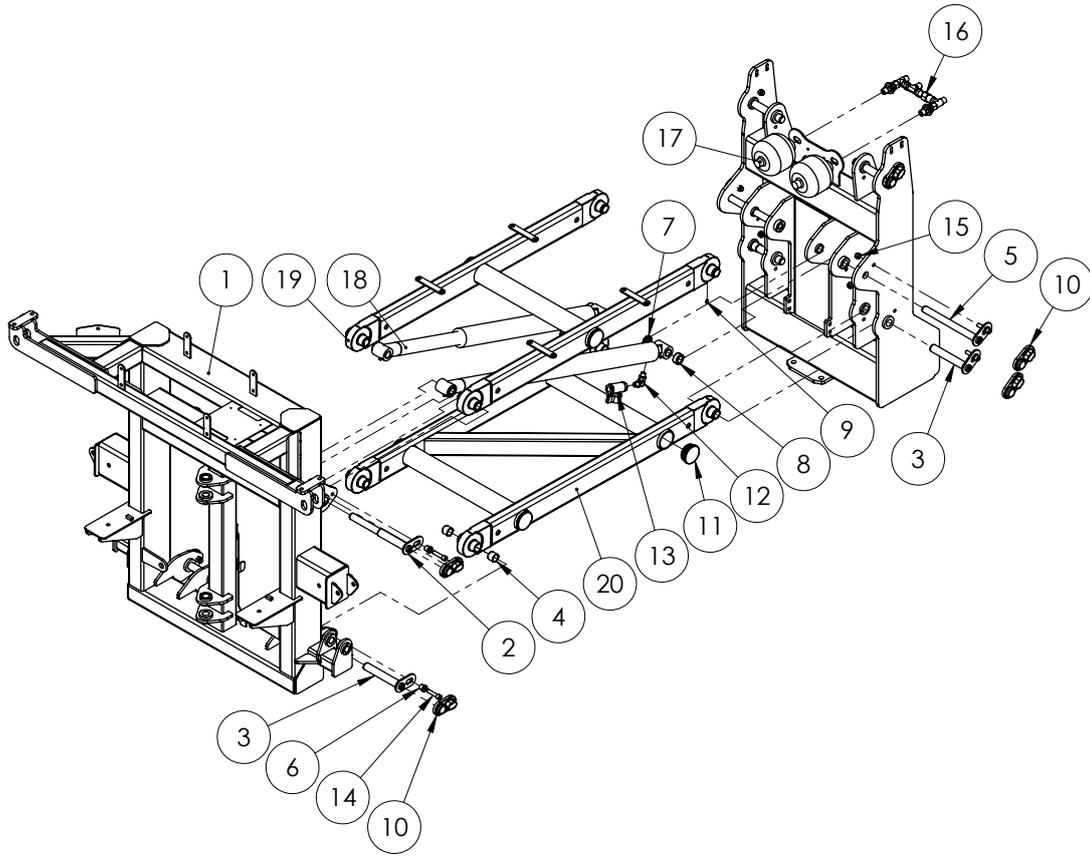
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4922195	Boom centre 2011 Base assembly	1
2	GA5075135	Tilt cylinder replacement adjustable top link	2
3	GA4572135	Paralift spacer bush	4
4	DB-ADJ-02MACH	Short centre bushing for removable pivots	4

## Centre With Tilt Cylinders



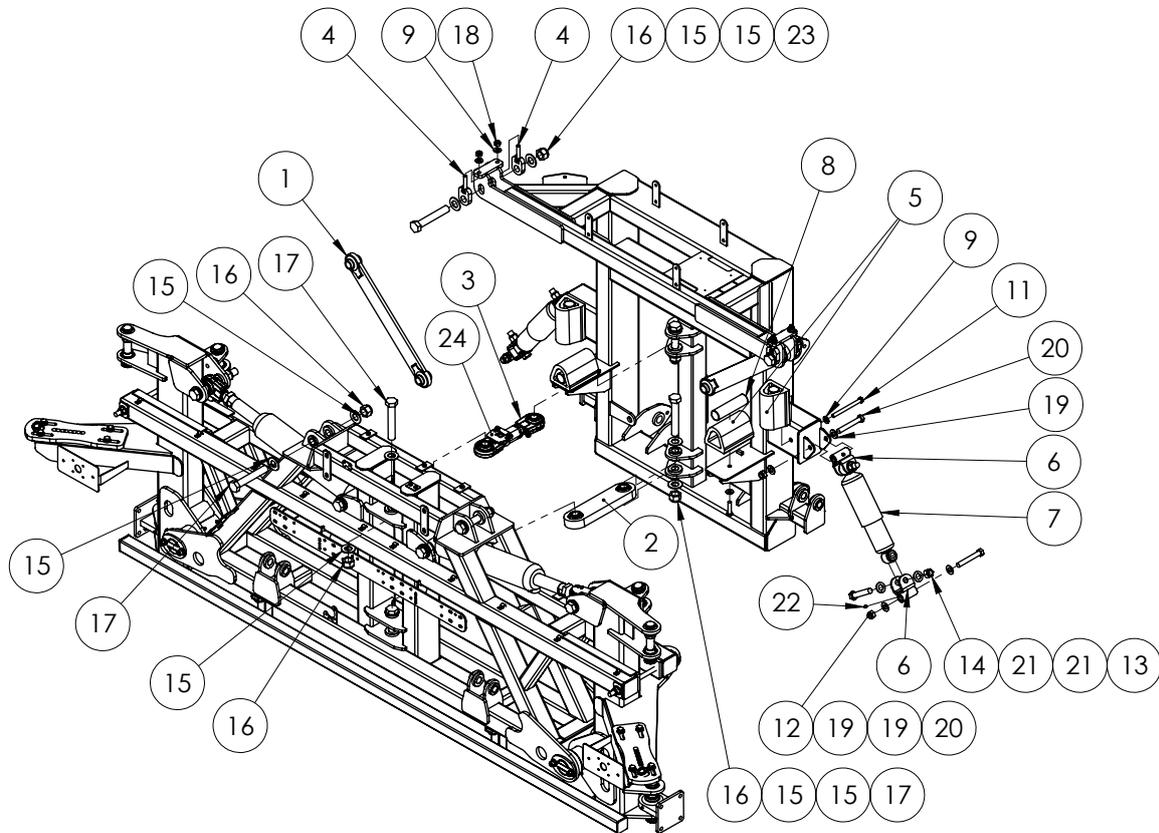
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4922195	Boom centre 2011 Base assembly	1
2	GA5065051	Hydraulic cylinder 3.5"x5" stroke	2

# Paralift & Paralift Arms



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658135	Rear part of paralift to suit new 2010 centre	1
2	GA5066675	Pin paralift rear ram and arm	2
3	GA5066655	Pin paralift chassis arm	6
4	GA5065486	Glacier bush 1 1/8" x 1" long	16
5	GA5066645	Pin Paralift Chassis Ram	2
6	MACH0152	12mm Bolt Bush suit para lift pins	10
7	GA4572135	Paralift spacer bush	4
8	GA4562190	machined bush 40 OD 26ID 17.5 long (zincd)	2
9	GA5050450	Grease nipple 6mm	8
10	GA5067885	Pin cover - plastic	10
11	GA5050355	Insert to suit 65NBTube	6
12	S89-0812	Elbow 1/4 BSPT x 9/16 UNO	2
13	GA5000835	Ball valve hydraulic 1/2" FF	2
14	GA5051470	M12x50 unbrako	10
15	GA5012461	M12 Nyloc nut Z/P	11
16	GA4903058	Hydraulic Accumulator Manifold	1
17	GA5007787	Accumulator 1.0L Precharge 70 Ba	2
18	GA5070082	Hydraulic cylinder - 2.5" bore, 2" rod, 21" Stroke	2
19	GA4659305	Top Paralift Arm MY12	1
20	GA4659310	Bottom Paralift Arm MY12	1

# Complete Centre & Paralift

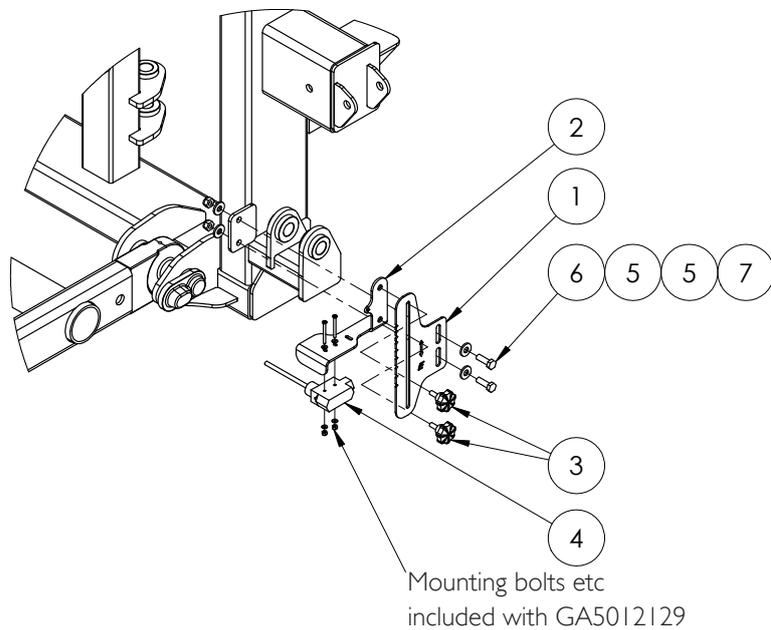


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656240	Long delta link	2
2	GA5067855	Short delt link	1
3	DELTA-LINKSA	Short Adjustable delta link	1
4	GA4656260	Boom Delta hanger adjuster bolt	4
5	GA5006537	Rubber Bump Stop	4
6	GA4658140	Shocker mount pivot suit 2011 centre	4
7	GA5015139	High control shocker	2
8	GA4572315	Bump stop travel limiter suit Centre section	4
9	GA5000587	M12 WASHER	7
10	GA5011239	M12x50 bolt	1
11	GA5000271	M12x140 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	16
16	GA5012445	Nut nyloc 1" UNF	8

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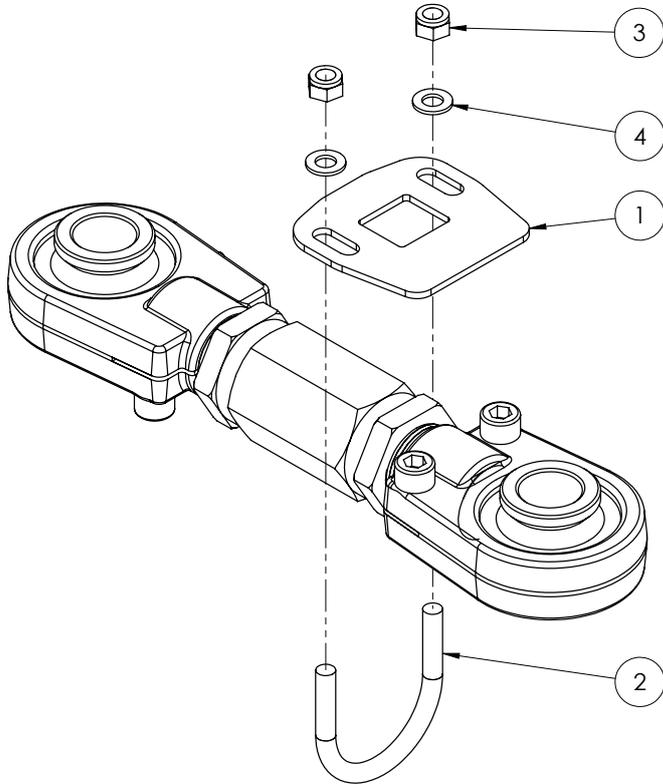
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA5006043	Bolt 1" x 6" UNF	6
18	GA5012461	M12 Nyloc nut Z/P	4
19	GA5001009	M16 washer Zink coated	8
20	GA5000855	Bolt M16 x 110 ZP GR8.8	4
21	GA5001739	M20 Heavy Duty Flat Washer	8
22	GA5012203	Grease Nipple 1/4" UNF Short	4
23	GA4683145	1" x 6" UNC Bolt cut from 7"	2
24	GA4922185	Adjustable delta link lock up assembly 2011	1

## Lower Limit Switch



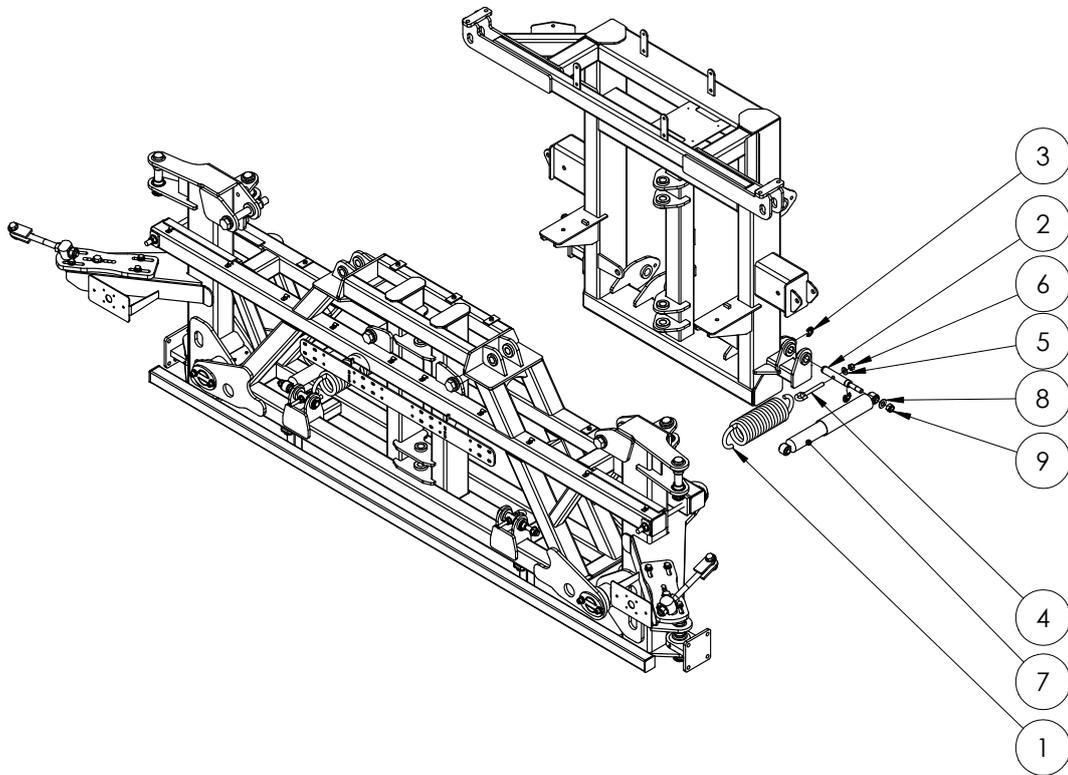
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523965	EF Evo 2011 Boom Height adjustment bracket	1
2	GA4654161	Paralift switch bracket	1
3	GA5067080	M8 x 20mm Plastic Knob Bolt	2
4	GA5012129	Narva Boom Height Limit Switch	1
5	GA5000117	Washer 10mm SS Heavy duty	4
6	GA5065455	Bolt Gr8.8 M10x30	2
7	GA5000141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

# Delta Link Locking Plate



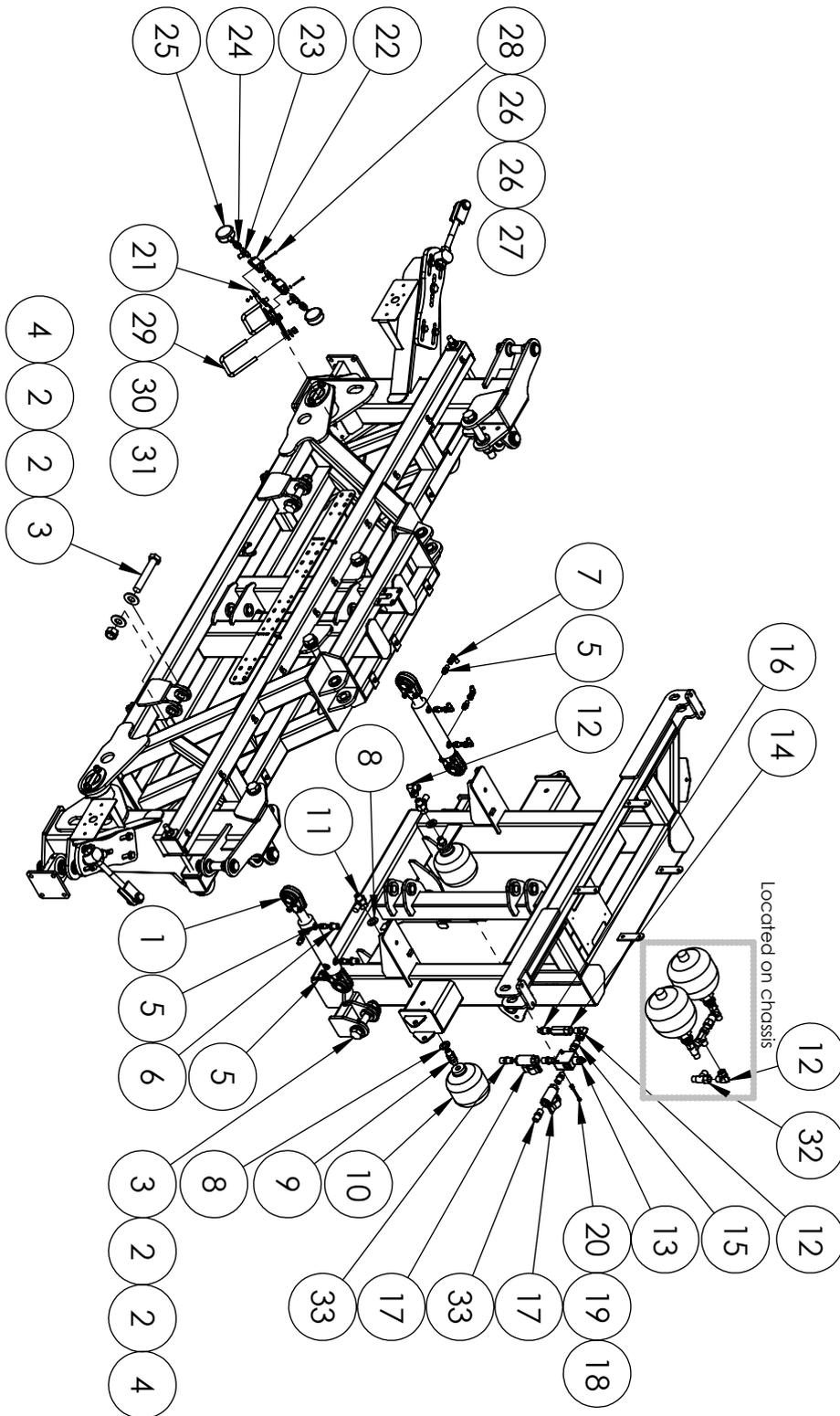
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4524140	Locking plate suit adjustable delta link	1
2	GA5018245	M8 x 50 x 60 RT U Bolts	1
3	GA5052590	Nut M8 Nyloc S/S 316	2
4	GA5003643	M8 HD ZP Washer	2

# 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 2011 center	2
8	GA5001009	Flat washer M16 HD	4
9	GA5001029	M16 Nyloc nut	4

# Hydraulic Yaw Kit

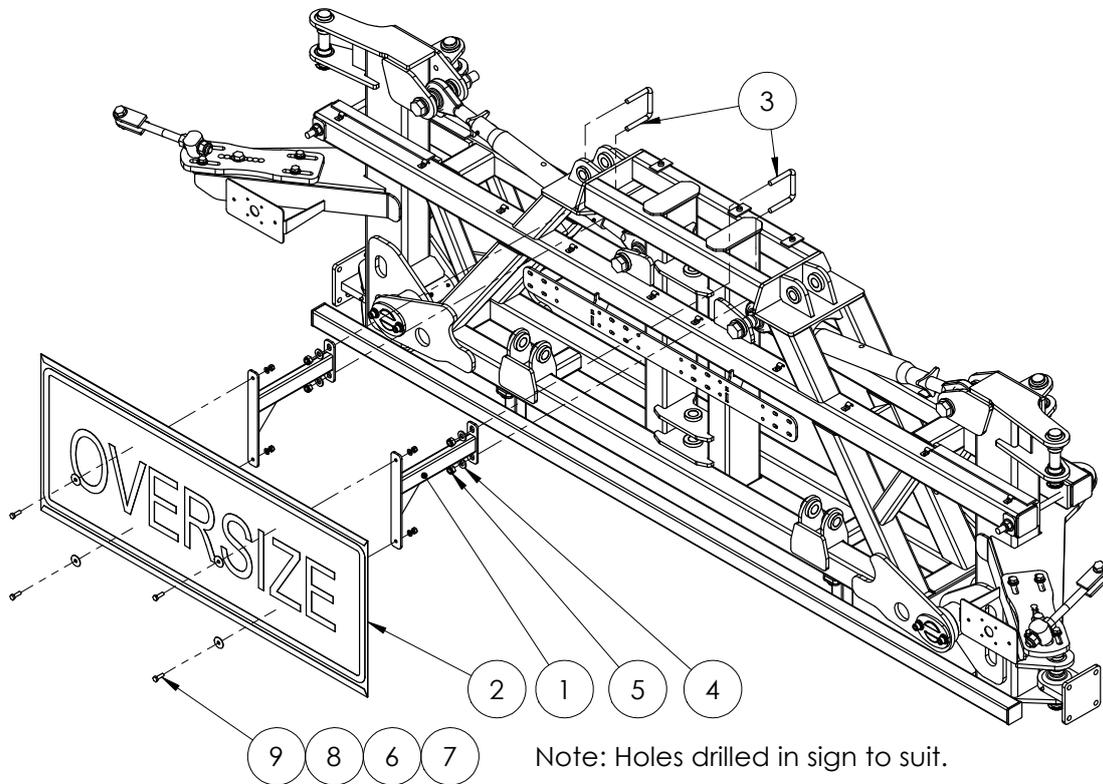


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# Hydraulic Yaw Kit

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

# Oversize Sign Mount

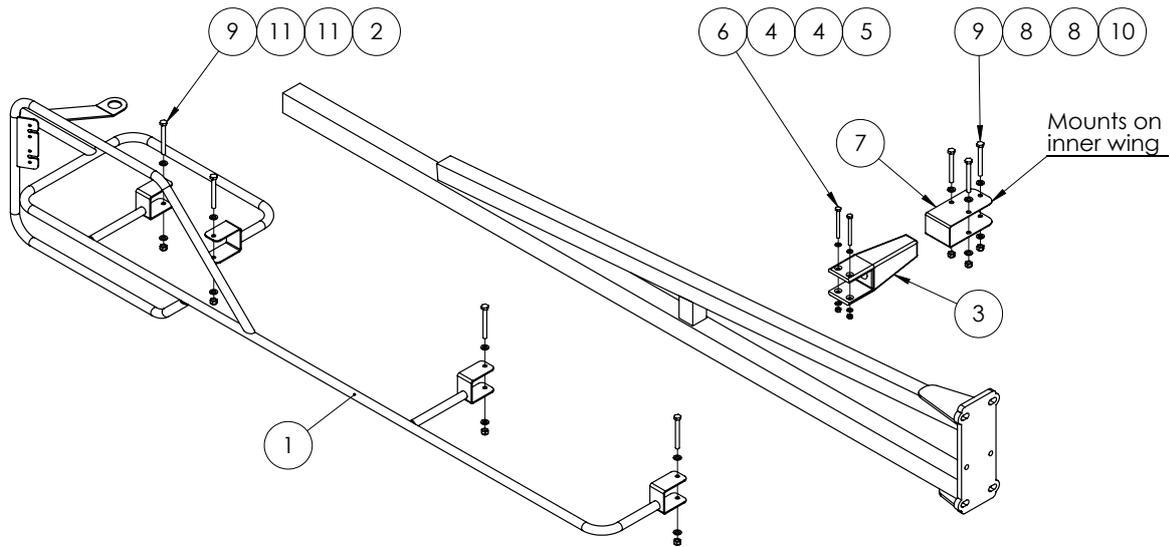


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658150	Oversize mount bracket suit 2011 centre	2
2	GA5009613	Oversize Sign	1
3	GA5075160	M12 x 76mm x 80mm Square Top U Bolt	2
4	GA5000587	M12 WASHER	4
5	GA5012461	M12 Nyloc nut Z/P	4
6	GA5004883	Washer 8mm HD	4
7	GA5052590	Nut M8 Nyloc S/S 316	4
8	GA5003645	5 -16 x 11-4 Flat washer SS	4
9	GA5004713	Bolt M8 x 25 SS A2-70	4

# Chapter 14

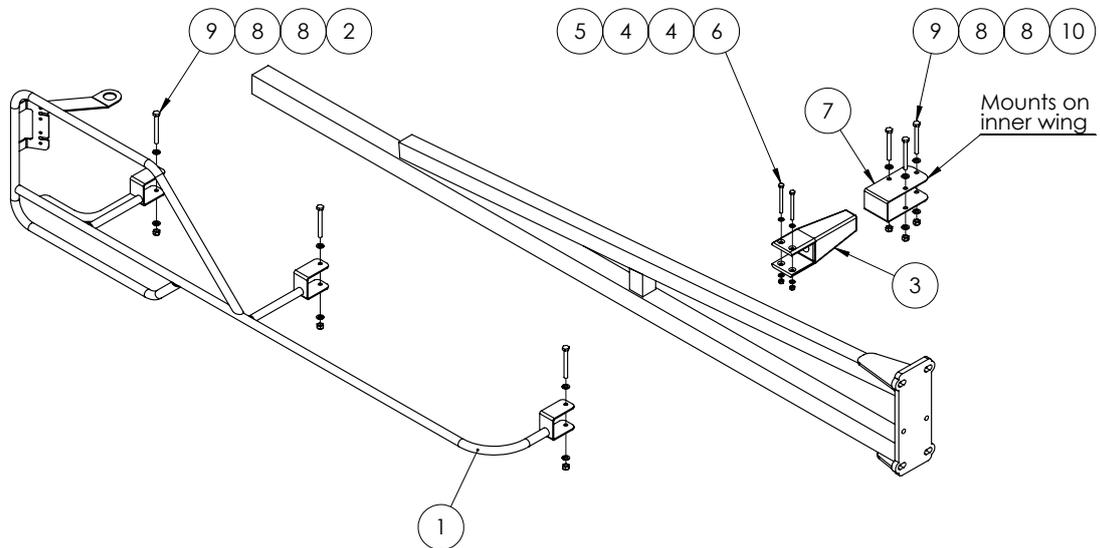
## BOOM WING

### Fence Line End Protector - Standard



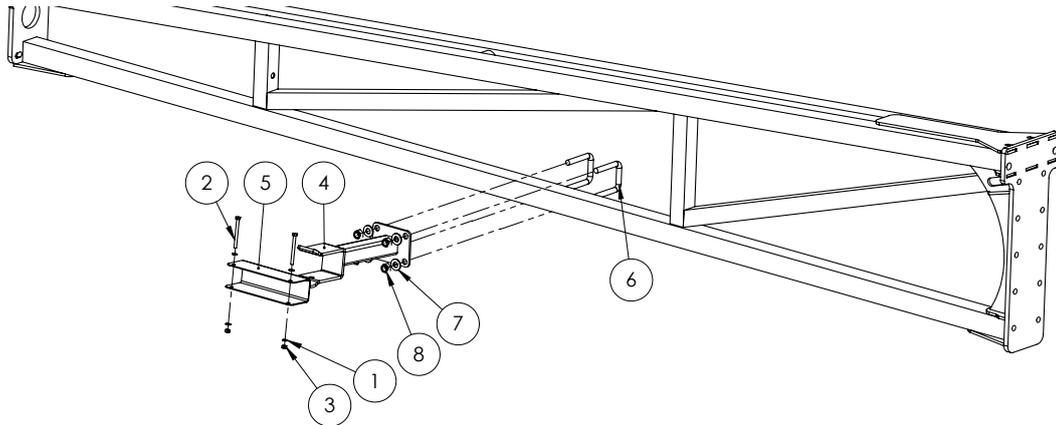
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656314	Boom End Protector (RH)	1
	GA4656315	Boom End Protector (LH) (not shown)	
2	GA5004917	M8 Nyloc Nut	4
3	GA5006225	Boom stopper rubber - 140mm	1
	GA5006226	Boom stopper rubber - 210mm (not shown)	
4	GA5004437	M6 SS Washer	4
5	GA5048115	Nut nyloc M6	2
6	GA5004107	M6 x 70mm bolt	2
7	GA4522995	Rubber bump stop extension bracket	1
8	GA5048115	Washer 8mm SS HD	6
9	GA5052600	M8x75 Bolt SS	7
10	GA5052590	Nut M8 Nyloc S/S 316	3
11	GA5003643	M8 HD ZP Washer	8

# Fence Line End Protector - Quick Fit



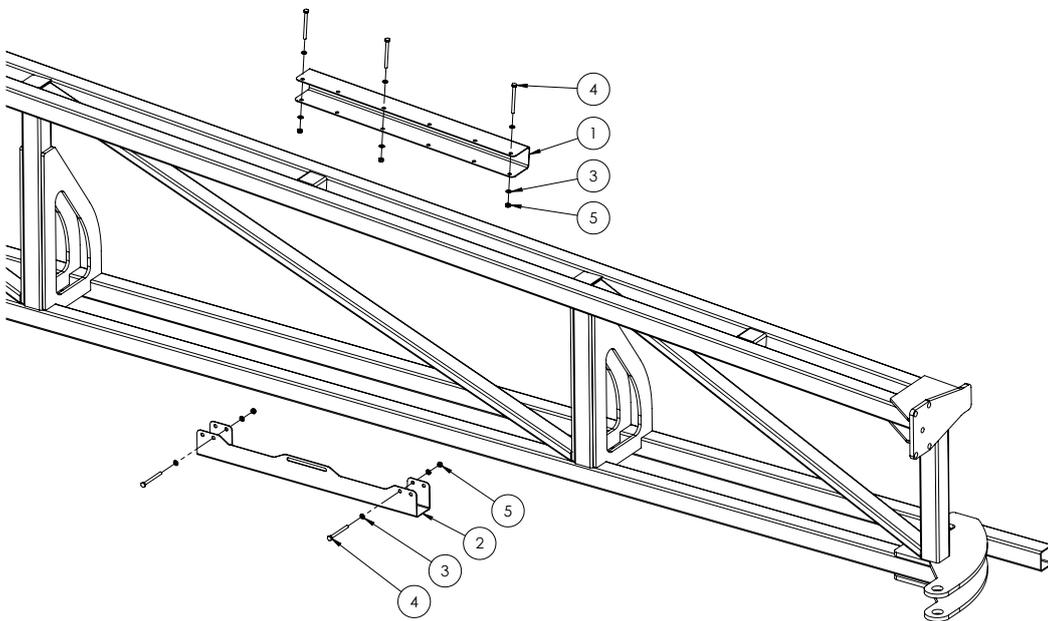
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656316	RH Boom End Protector easy fit MY13	1
	GA4656317	LH Boom End Protector easy fit MY13 (not shown)	
2	GA5004917	M8 Nyloc Nut	3
3	GA5006225	Boom stopper rubber - 140mm	1
	GA5006226	Boom stopper rubber - 210mm (not shown)	
4	GA5004437	M6 SS Washer	4
5	GA5048115	Nut nyloc M6	2
6	GA5004107	M6 x 70mm bolt	2
7	GA4522995	Rubber bump stop extension bracket	1
8	GA5003643	Washer 8mm SS HD	12
9	GA5052600	M8x75 Bolt SS	6
10	GA5052590	Nut M8 Nyloc S/S 316	3

## Boom Protector Assembly - Outer



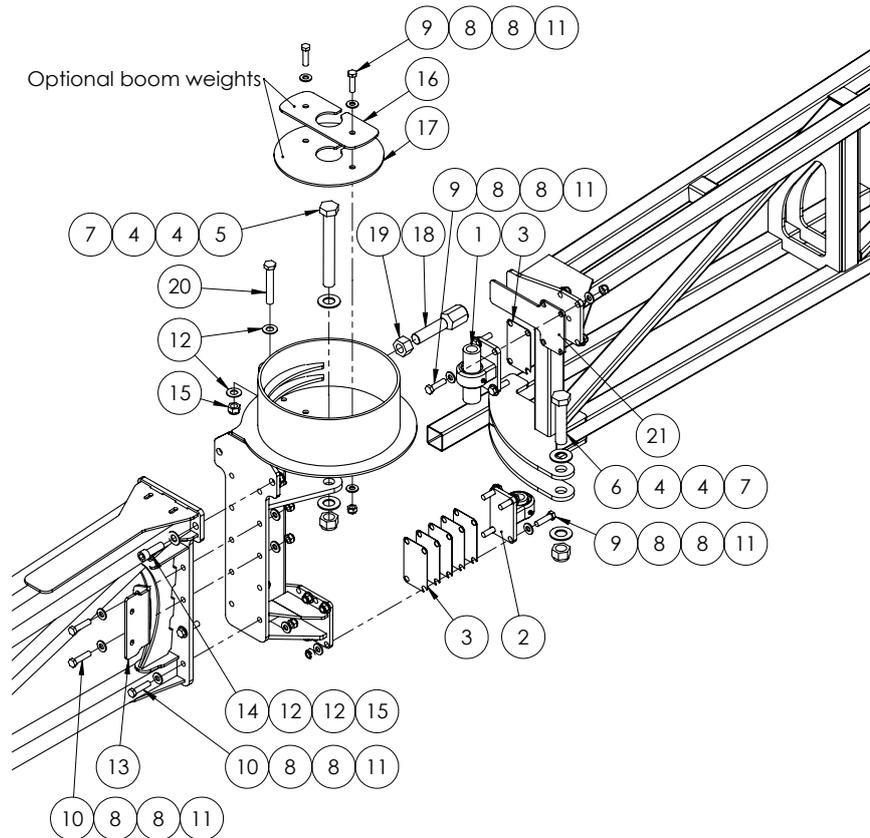
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5004437	M6 SS Washer	4
2	GA5004107	M6 x 70mm bolt	2
3	GA5048115	Nut nyloc M6	2
4	GA4656277	Boom Fold TriTech Long Support Bracket	1
5	F70294A	boom wing protector Suit 50 x 50 200mm long	1
6	GA5011251	M12 x 52mm x 80mm Square Top U Bolt	2
7	GA5000587	M12 WASHER	4
8	GA5012461	M12 Nyloc nut Z/P	4

## Boom Protector Assembly - Inner



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70799A	Wing Protector suit 50 x 50 600mm long	1
2	GA4505005	Boom Slide Protector SS 2013	1
3	GA5004437	M6 SS Washer	10
4	GA5004107	M6 x 70mm bolt	5
5	GA5048115	Nut nyloc M6	5

# Cable Drum

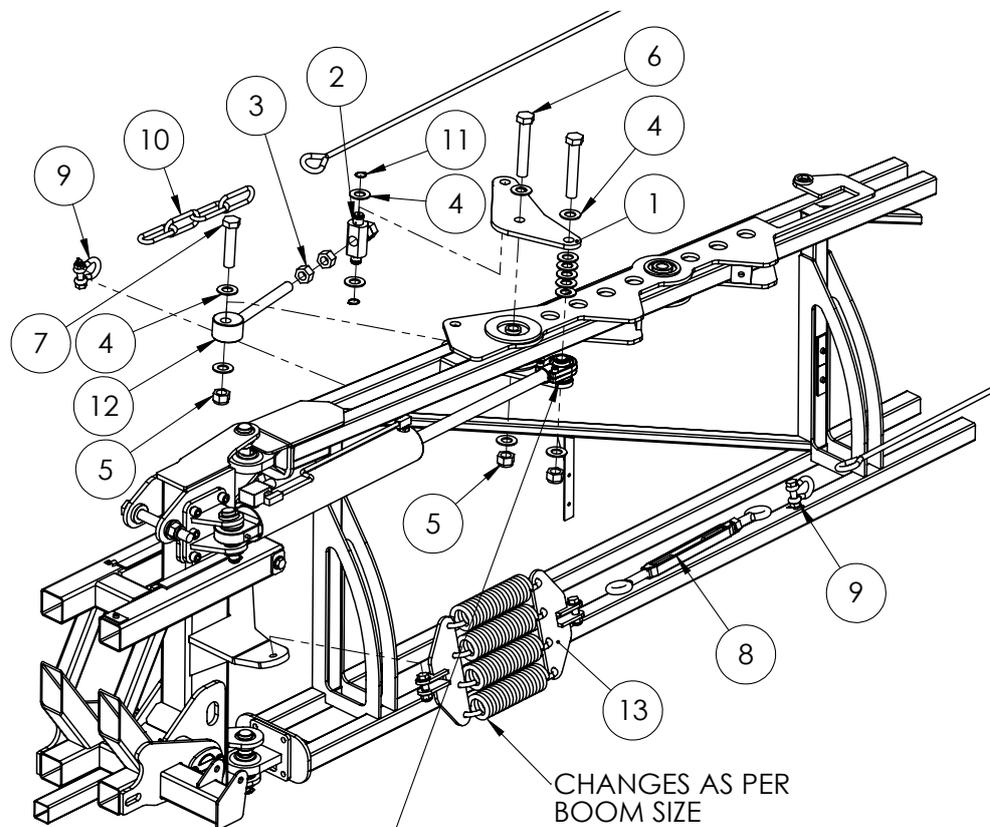


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4932342	Upper bearing pivot kit suit Tritech drum hinge	1
2	GA4912030	Lower removable pivot assembly	1
3	DB-ADJ-I6LAS	Shim plate for removable pivot assembly	6
4	GA5017659	Washer 1" Flat HD ZP	4
5	GA5006151	1" x 8" UNF Bolt	1
6	GA5006039	1" x 4.5" UNF Bolt	1
7	GA5012445	Nut nyloc 1" UNF	2
8	GA5000587	M12 WASHER	40
9	GA5000327	Set Screw M12 x 45 ZP GR8.8	10
10	GA5011239	M12x50 bolt	10
11	GA5012461	M12 Nyloc nut Z/P	20
12	GA5001009	M16 washer Zink coated	6
13	GA4522725	Boom hose holder plate outer	1
14	GA5000935	M16x50 unbrako	2
15	GA5001029	M16 Nyloc nut	3
16	GA4504535	Boom Weight Disc Cable Drum small 0.8kg	1
17	GA4504530	Boom Weight Disc Cable Drum 1.8kg	1
18	GA4572495	Boom drum stopper bolt 1" unf 12 TPI	1
19	GA5010991	Nut 1" x 12 TPI ZP UNF	1
20	GA5011269	M16x100 bolt	1
21	GA4524690	Upper boom stop wear plate MY13	1

## Cable Drum

Part No	Description	Qty
GA4659580	Right Cable Drum	1
GA4659585	Left Cable Drum	1
GA4659590	Bi-Fold Right Cable Drum	1
GA4659595	Bi-Fold Left Cable Drum	1
GA4659600	Right Offset Cable Drum	1
GA4659605	Left Offset Cable Drum	1
GA4659610	Bi-Fold Right Offset Drum	1
GA4659615	Bi-Fold Left Offset Drum	1

## Boom Fold Adjuster



STANDARD  
 5xGA5017659 (1" WASHER) ABOVE RAM  
 2xGA5017659 (1" WASHER) BELOW RAM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	24mk4DB005LAS	Fold ram adjuster plate suit tritec boom	2
2	24mk4DB006MACH	Fold ram adjuster nut mounting	1
3	GA5010991	Nut 1" x 12 TPI ZP UNF	4
4	GA5017659	Washer 1" Flat HD ZP	15
5	GA5012445	Nut nyloc 1" UNF	3
6	GA5006043	Bolt 1" x 6" UNF	2

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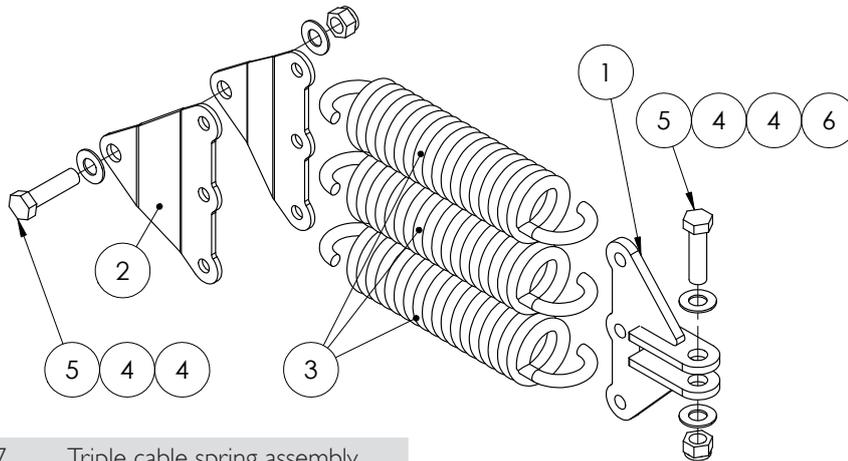
## Boom Fold Adjuster

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	GA5006039	1" x 4.5" UNF Bolt	1
8	GA5017061	Turnbuckle FRG COMM GAL E/E 22mm with nut	1
9	GA5000669	13mm Bow Shackle	2
10	GA5065020	Chain link 11mm	4
11	GA5008519	Circlip external 25mm	2
12	GA5070775	Boom fold adjuster HD MY13	1
13	GA4905665	36m Cable Spring Mounting MY13	1

## Boom Cables

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
	GA5000073	<b>Cable - Lengths;</b> <b>TriTech 24-30mt:</b> Front - 5140 Rear - 5760 <b>TriTech 33-36mt:</b> Front - 6590 Rear - 7220 NOTE: Cable lengths are as measured eye to eye	2
	GA5000215	Cable End Eyelet	4
	GA5005391	Cable Ferrule	4

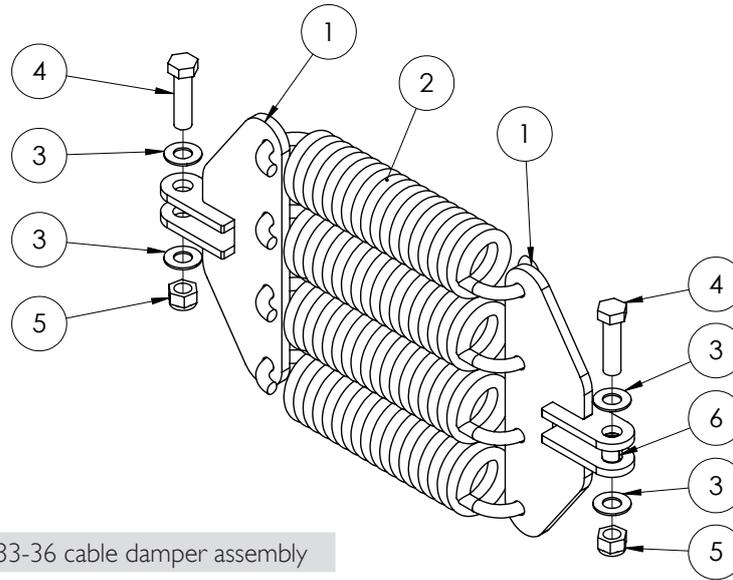
## Boom Cable Spring - Suit 28-30m



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

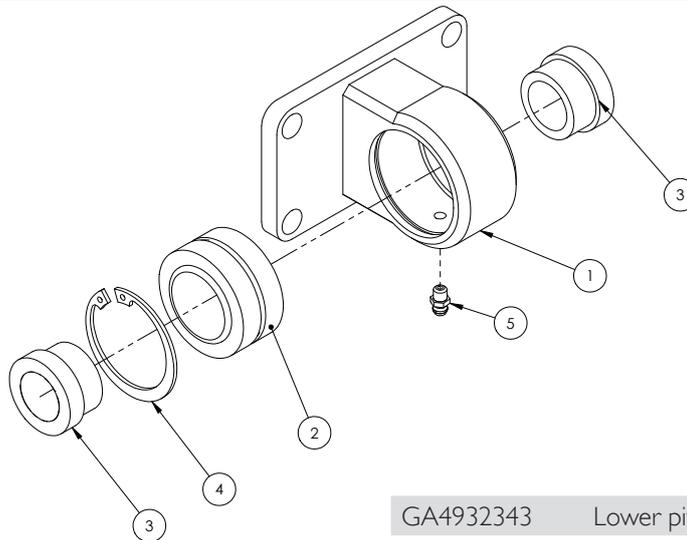
## Boom Cable Springs - Suit 33&36m



GA4905665 33-36 cable damper assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659710	Cable Spring Mount Sub Asm	2
2	GA5010793	Heavy Spring	4
3	GA5001009	M16 washer Zink coated	4
4	GA5000939	M16x60 bolt	2
5	GA5001029	M16 Nyloc nut	2
6	GA5075220	Glacier bush flanged 16mm suit boom cable pivot	1

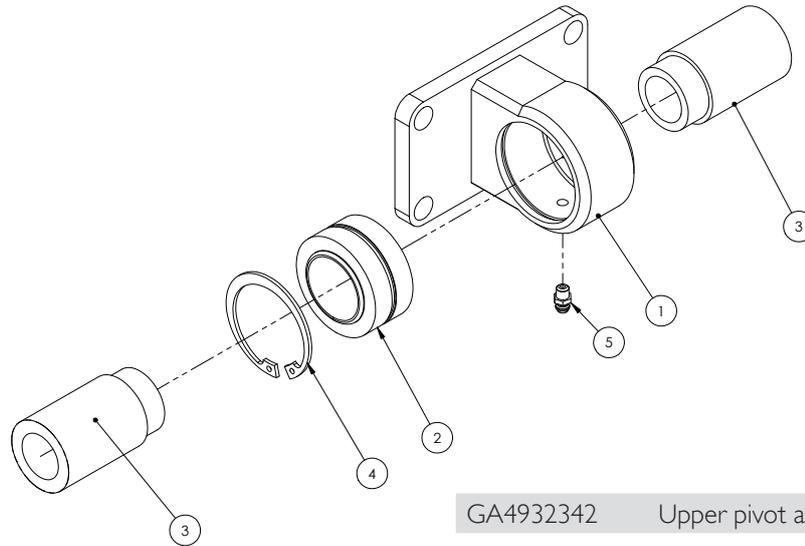
## Lower Bearing Pivot



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-02	Short centre bushing for removable pivots	2
4	GA5021085	55mm internal circlip	1
5	GA5012203	Grease Nipple 1/4" UNF Short	1

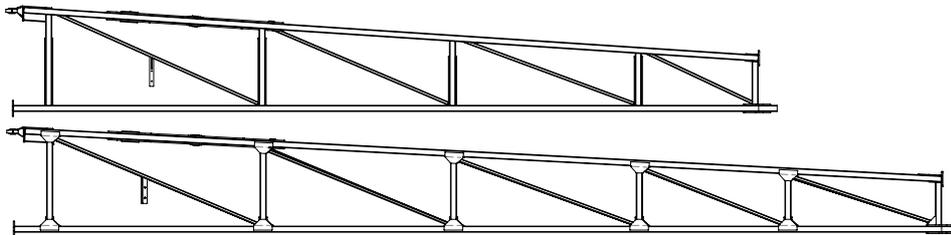
## Upper Bearing Pivot



GA4932342 Upper pivot assembly

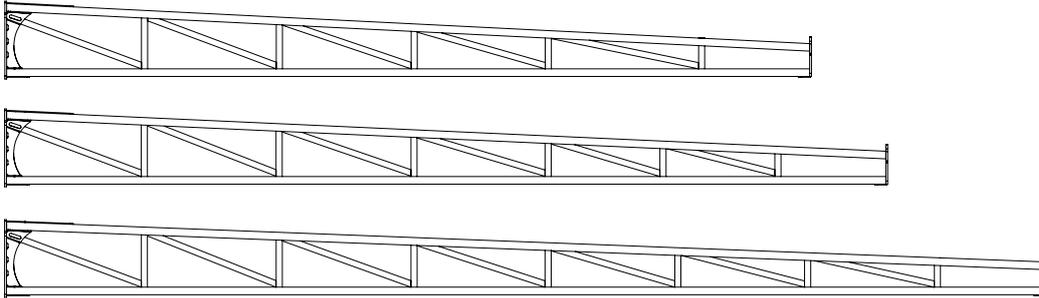
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656190	Boom hinge bearing mnt 24+	1
2	GA5015659	Spherical bushing 1 3/8"	1
3	DB-ADJ-13	Long centre bushing for removable pivots	2
4	GA5021085	55mm internal circlip	1
5	GA5012203	Grease Nipple 1/4" UNF Short	1

## Steel Inner Wings



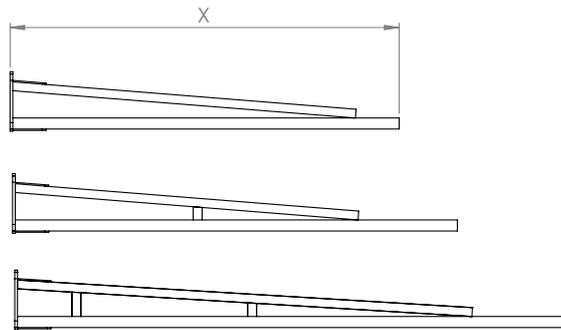
Part Number	Description
GA4656780	24-30M Boom inner Bi-Fold RH
GA4656785	24-30M Boom inner Bi-Fold LH
GA4656790	36M Boom inner Bi-Fold RH
GA4656795	36M Boom inner Bi-Fold LH

## Aluminium Outer Wings



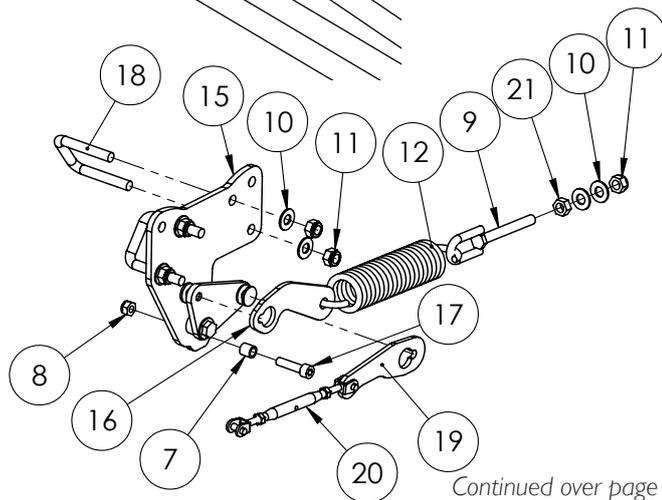
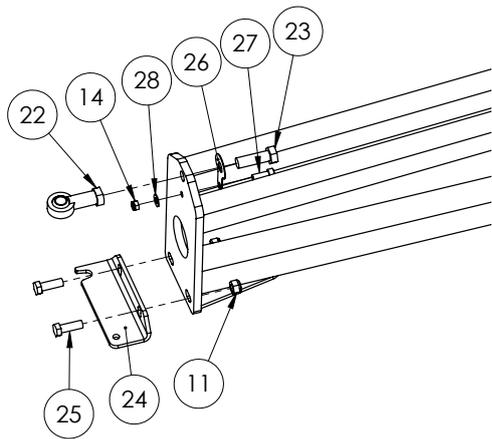
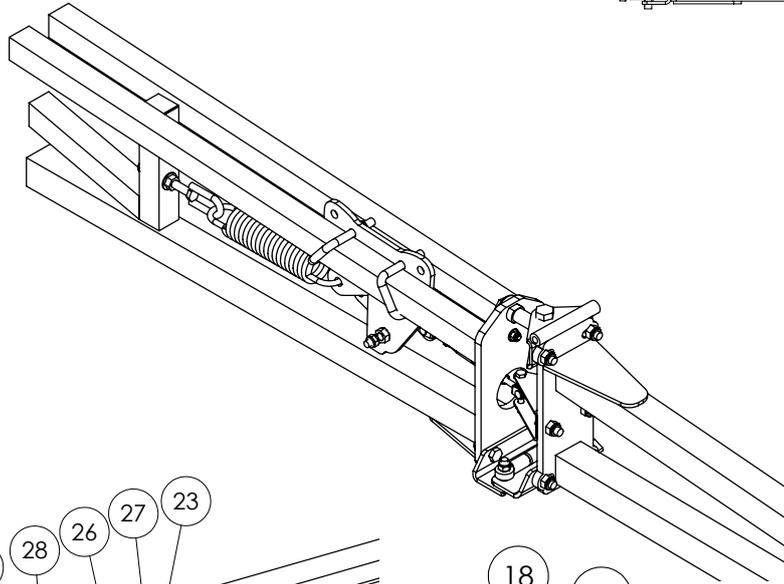
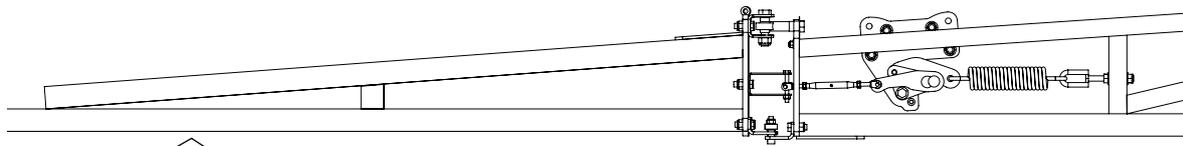
Part Number	Description
GA4656066	30m Outer boom section(5265mm Long)
GA4656071	33m Outer boom section(5764mm Long)
GA4656076	36m Outer boom section(6805mm Long)

## Aluminium Break Away Tip

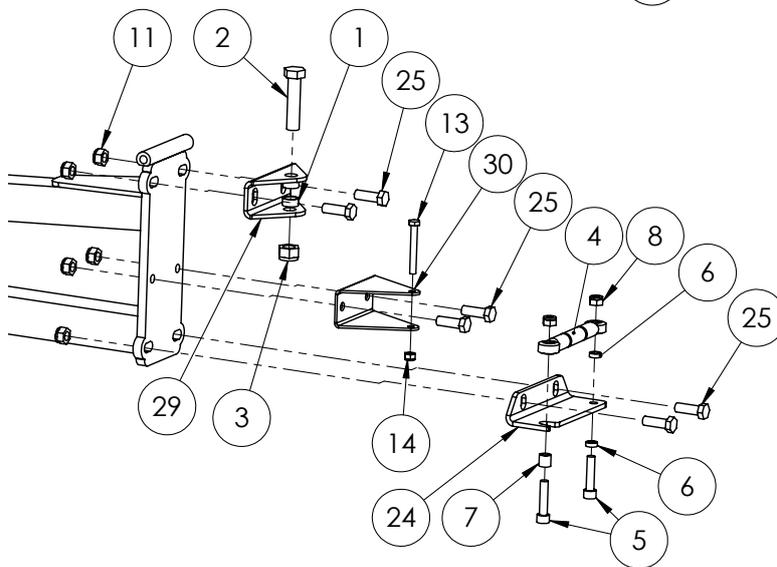


Part Number	Description
GA4656122	Boom breakaway end - 1750mm
GA4656120	Boom breakaway end - 2000mm
GA4656121	Boom breakaway end - 2500mm

# Three Dimensional Breakaway



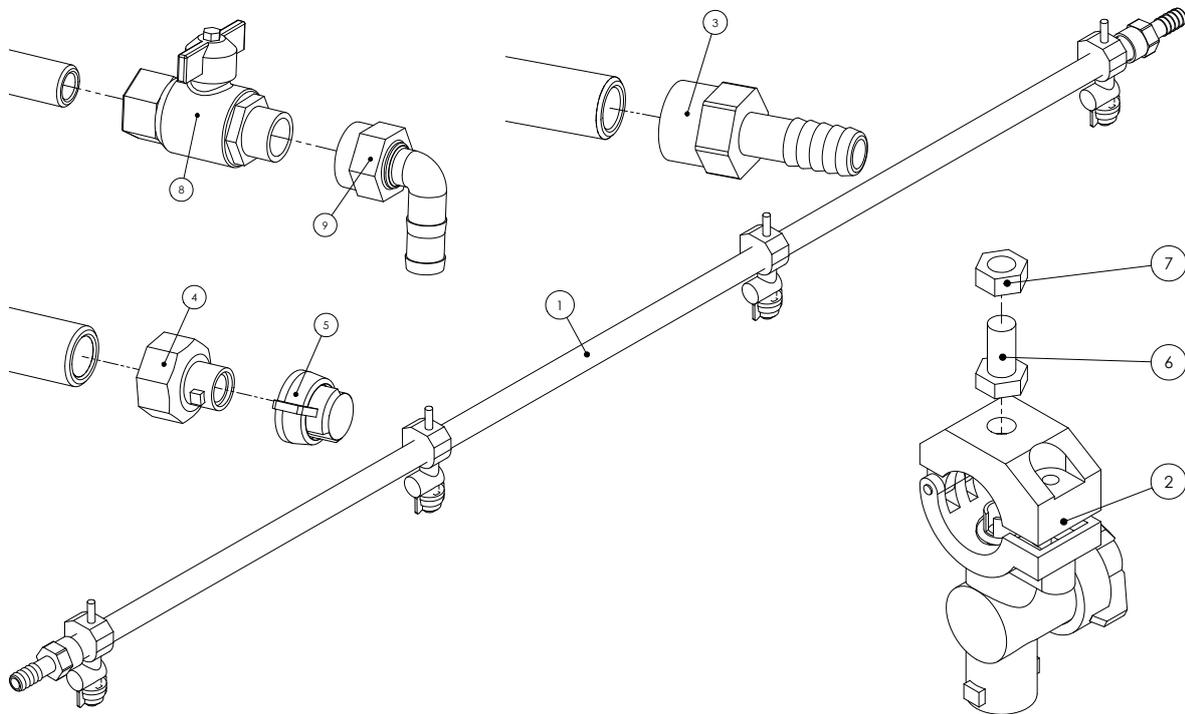
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## Three Dimensional Breakaway

ITEM	PART NO	DESCRIPTION	QTY
1	GA4552070	crush tube 16.2x20.5x9.5	2
2	GA5011307	M16x80 bolt	1
3	GA5001029	M16 Nyloc nut	1
4	GA4902060-3	Rodend subassembly	1
5	M10x45 SHCS	GA5066985	2
6	GA4552080	crush tube 10.2x15x5	2
7	GA4552075	crush tube 10.2x15x15	2
8	GA5000141	M10 Nyloc Nut	3
9	GA5008545	Eye bolt	1
10	GA5000587	Washer HD ZP 12mm	6
11	GA5012461	M12 Nyloc nut Z/P	13
12	GA5016605	Spring 180x51.5x8 (J507)	1
13	GA5011489	M8x60 bolt	1
14	GA5004917	M8 Nyloc Nut	2
15	GA4656115	Boom breakaway locking mechanism	1
16	GA4532565	Breakaway MK3 Spring Plate	1
17	GA5006141	M10x40 Unbrako	1
18	GA5011251	M12 x 52mm x 80mm Square Top U Bolt	2
19	GA4532590	Breakaway MK3 turnbuckle plate	1
20	GA5066930	Turnbuckle Jaw & Jaw M8 SS	1
21	GA5000559	Nut ZP M12	1
22	GA5014469	Rod end female 16mm	1
23	GA5000931	M16x50 bolt	1
24	GA4502105	bracket lower suit breakaway hinge	2
25	GA5000319	M12x40 Bolt	8
26	GA4522485	Breakaway Rose end lock plate	1
27	GA5004717	M8x30 SHCS	1
28	GA5004883	Washer 8mm HD	1
29	GA4502095	bracket upper breakaway hinge	1
30	GA4502100	bracket middle breakaway hinge	1

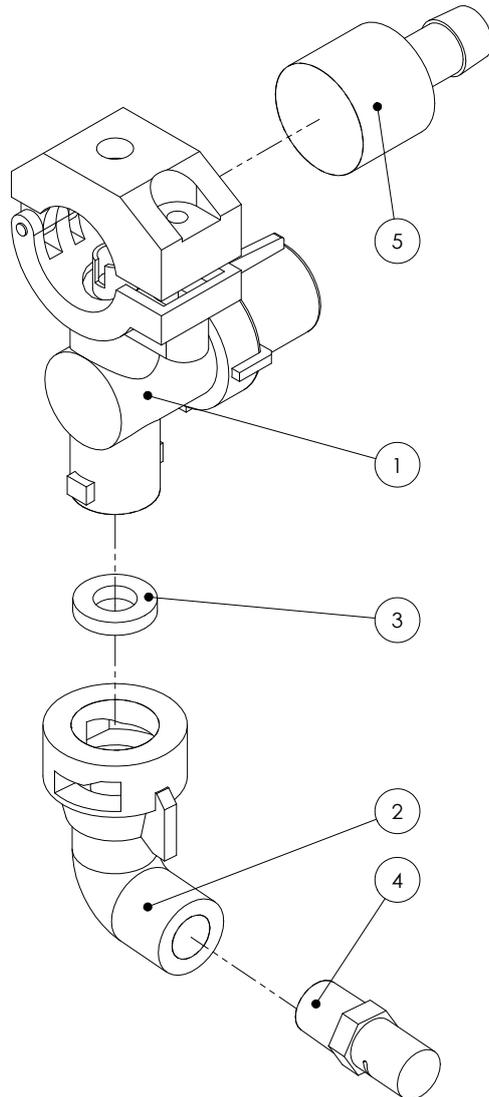
# Boom Line Plumbing



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	Q517560A-3/4-NYB	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	*

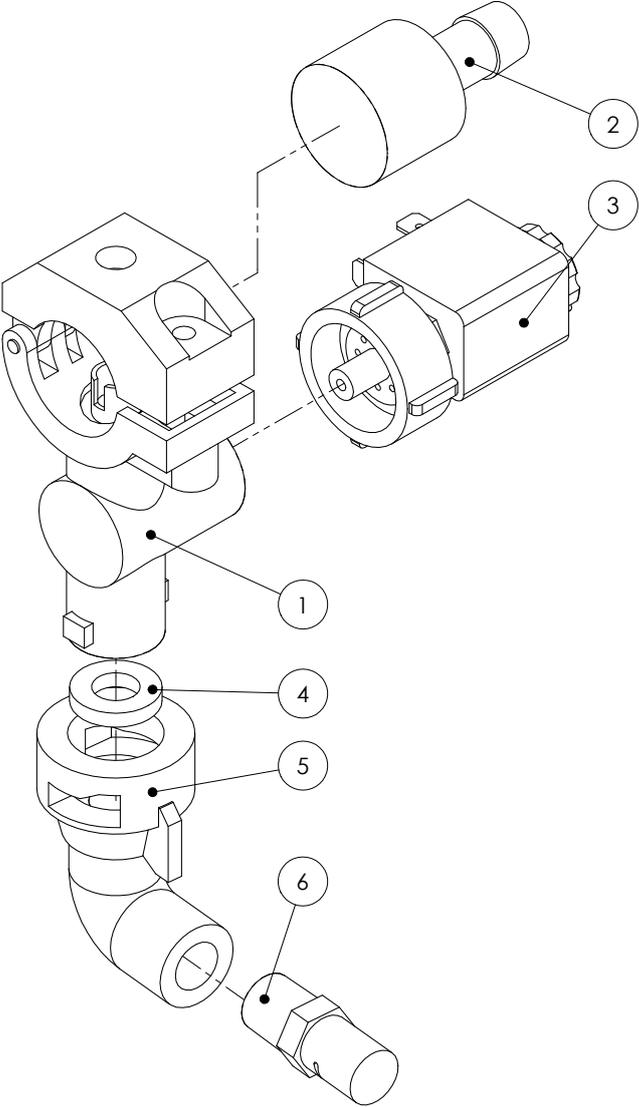
\* Quantities will vary depending on boom size and number of sections.

# Manual Fence Line Nozzle



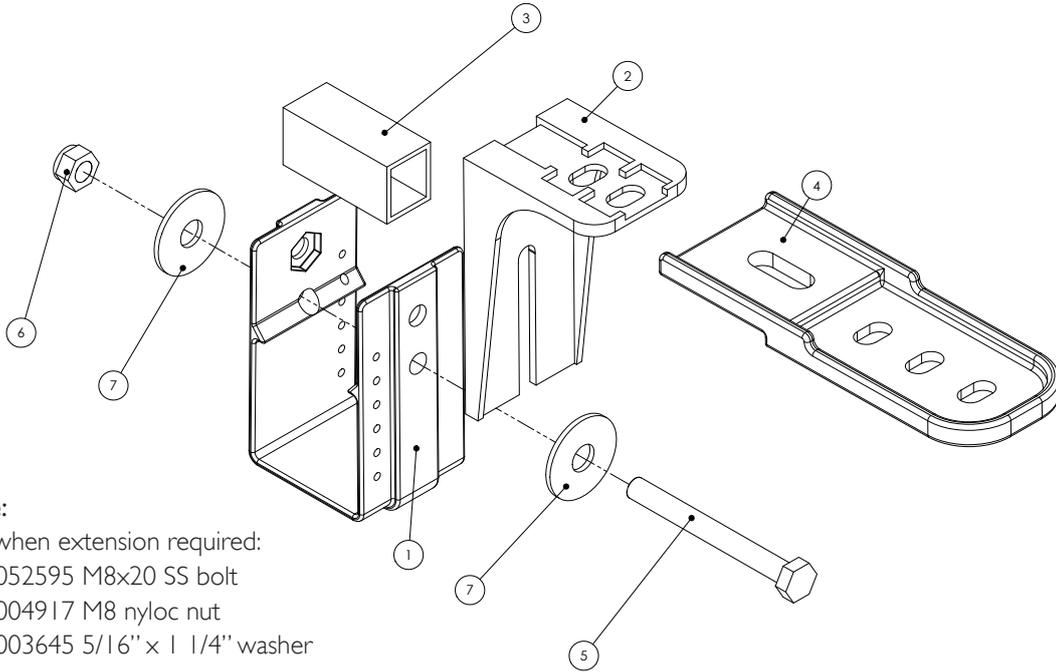
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	58140-NYB	Manual Nozzle Body	1
2	QJ4676-90-1/4-NYR	90 degree Nozzle Adapter	1
3	CP19438-EPR	Seal	1
4	B1/4XP10L	Left Fence line Nozzle	1
	B1/4XP10R	Right Fence line Nozzle	1
5	CP38936-NYB	End Barb Adapter	1

# Solenoid Operated Fence Line Nozzle



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	58140-NYB	Manual Nozzle Body	1
2	CP38936-NYB	End Barb Adapter	1
3	ECS17560A-3/4-NYB	Fence Line Solenoid	1
4	CPI9438-EPR	Seal	1
5	QJ4676-90-1/4-NYR	90 Degree Nozzle Adapter	1
6	BI/4XP10L	Left Fence Line Nozzle	1
	BI/4XP10R	Right Fence Line Nozzle	1

# Adjustable Nozzle Brackets

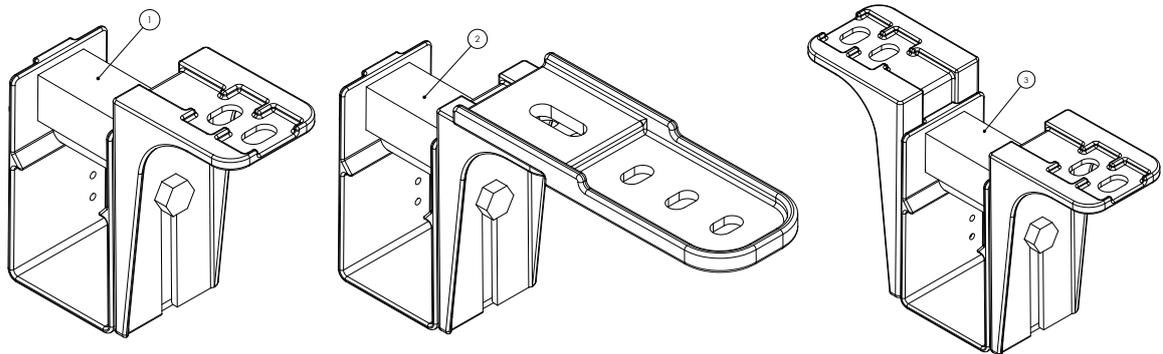


**Note:**

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
	GA5018258	"L" Nozzle Bracket - Long	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

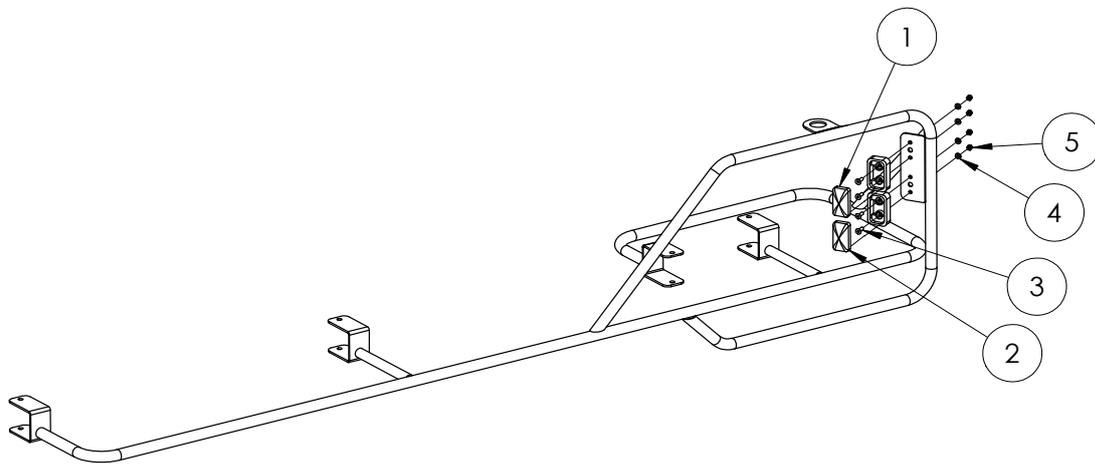


ITEM	PART NO	DESCRIPTION
1	GA4948675	Single line nozzle bracket
2	GA4948695	Dual Line nozzle bracket (rear side) Kit
3	GA4948685	Dual Line nozzle bracket (both sides) Kit

# Chapter 15

## ELECTRICS

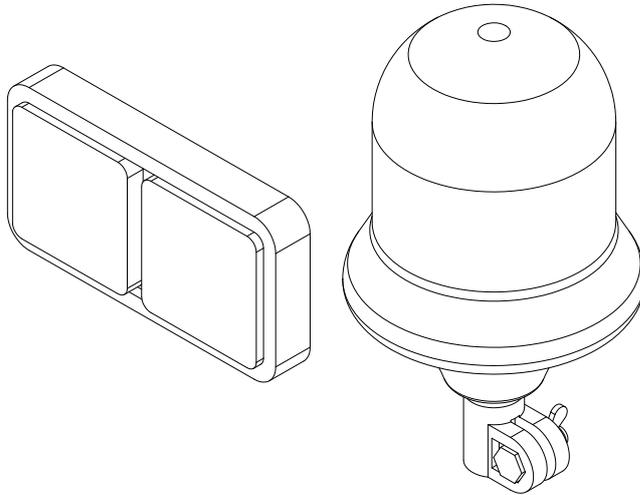
### Boom LED Lights



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

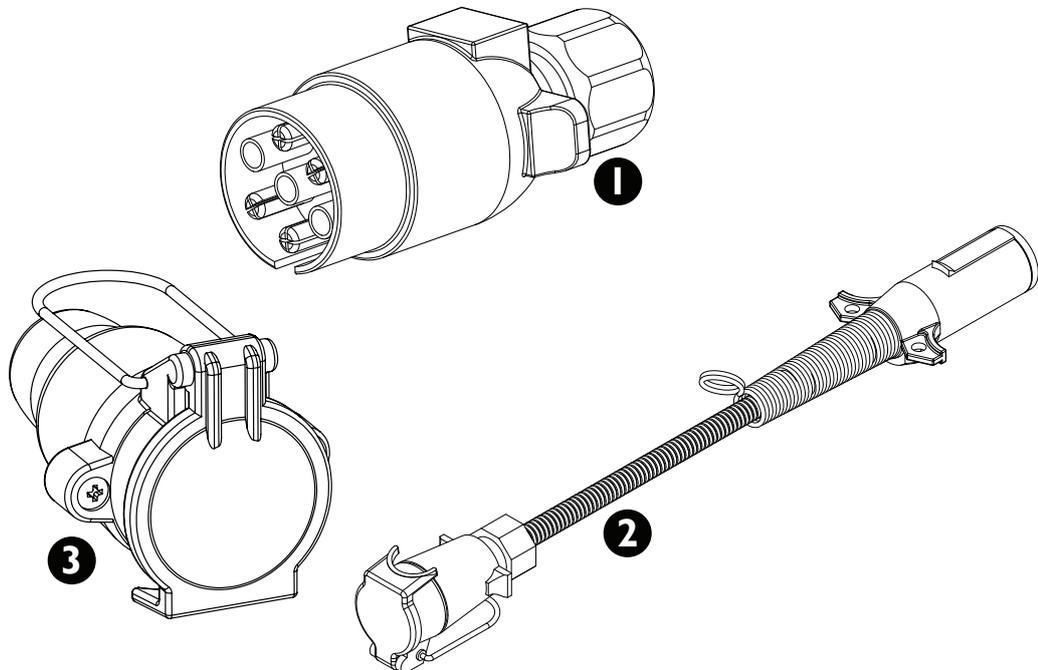
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060057	Light Boom Clearance LED with plug (orange)	1
2	GA5060056	Light Boom Clearance LED with plug (red)	1
3	GA5051230	Bolt M5 x 16mm FHCS 45°	4
4	GA5003983	M5 washer SS	4
5	GA5003975	M5 Nyloc nut SS	4

# Lights



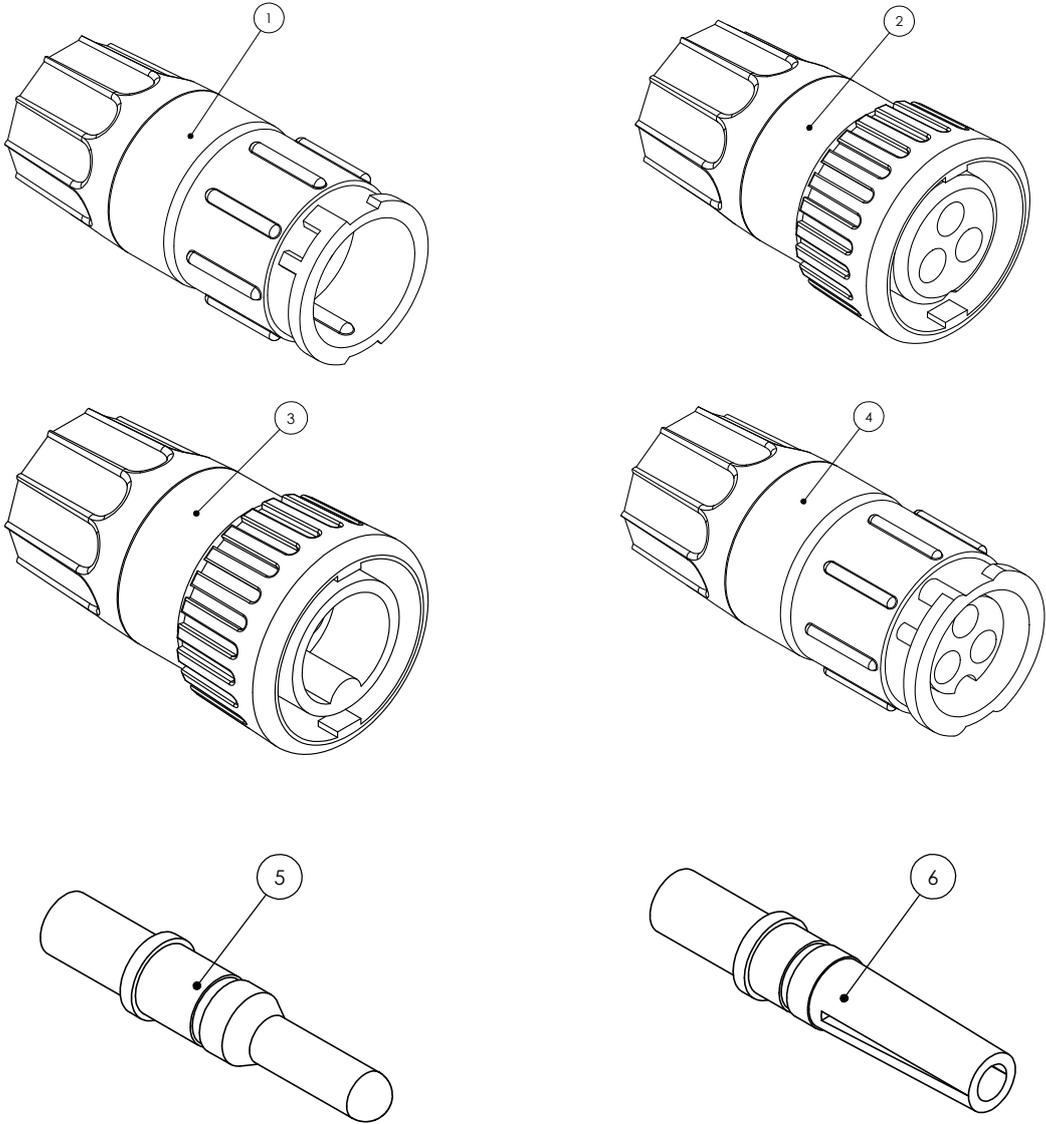
PART NO	DESCRIPTION
GA5018786	LED Tail Light
GA5048975	Rotating Beacon Light

# Electrical Components



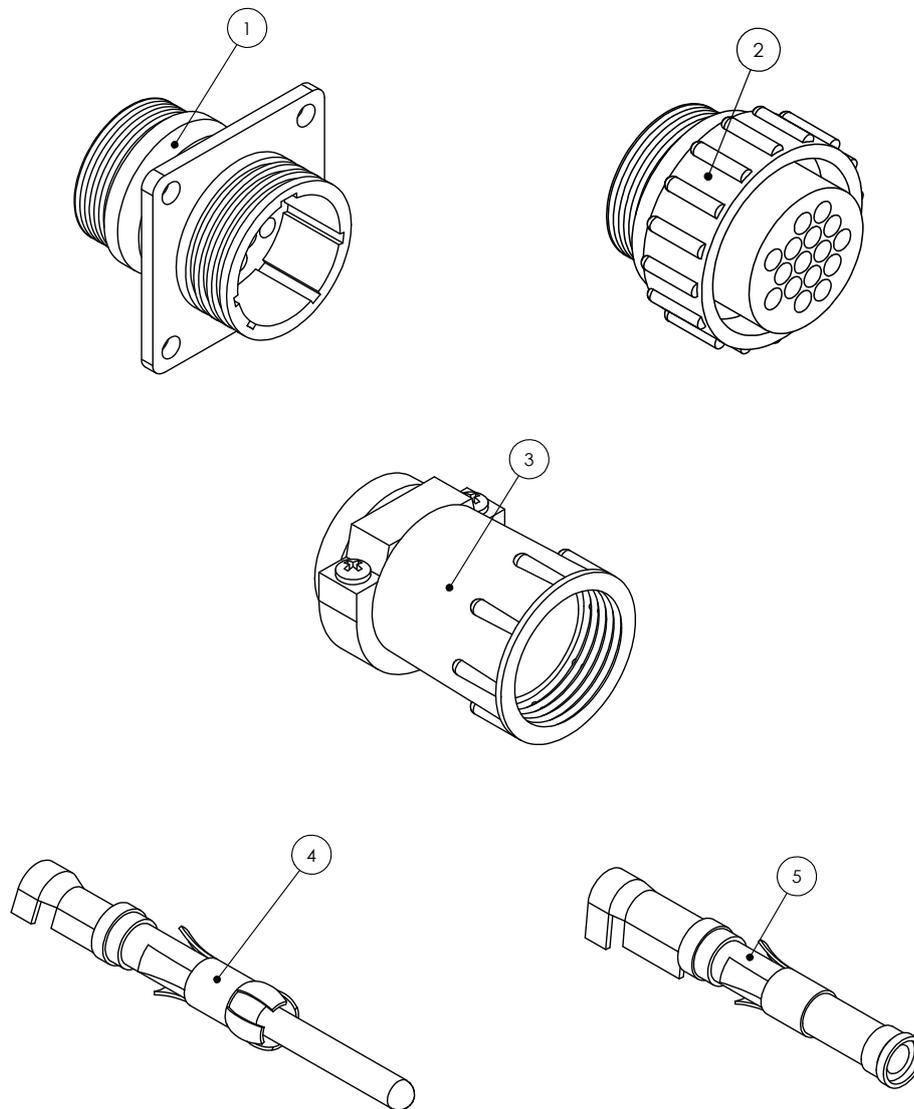
ITEM	PART NO	DESCRIPTION
1	GA5004477	7 Pin Trailer Plug (Round)
2	GA5060350	Adpater to suit American Style Tractors
3	GA5004479	7 pin remote base socket & cap

# Raven (AMP) Electrical Connectors



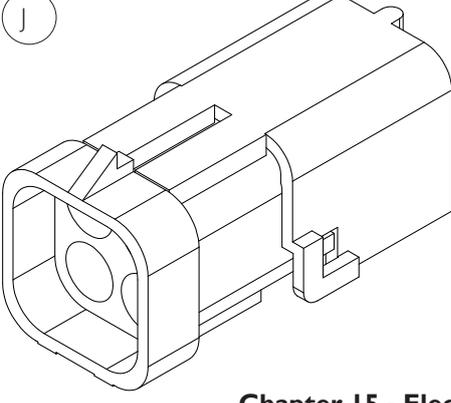
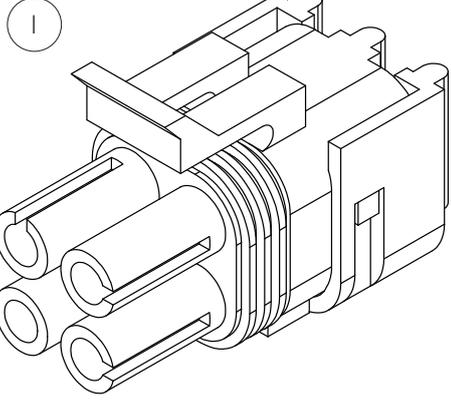
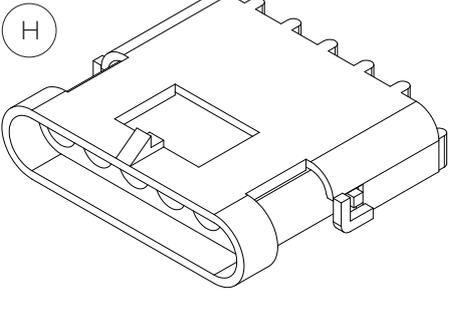
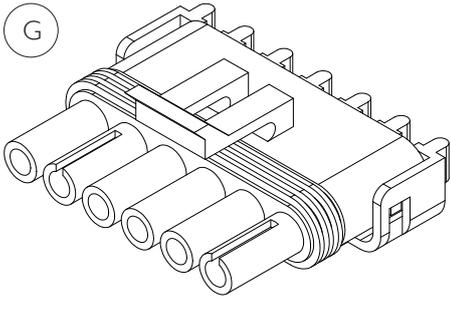
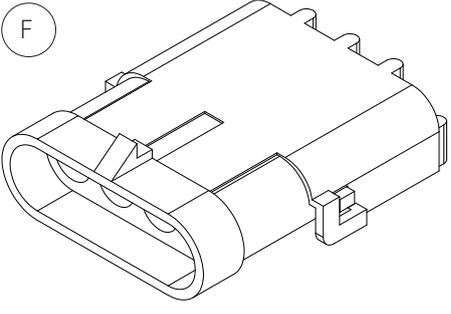
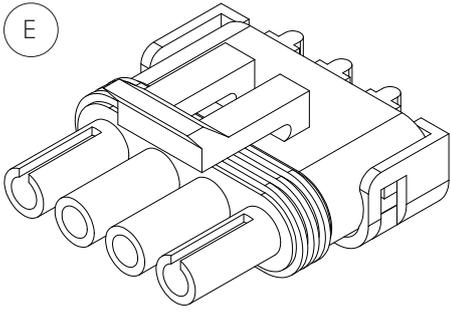
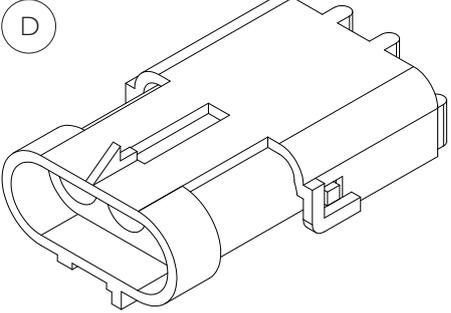
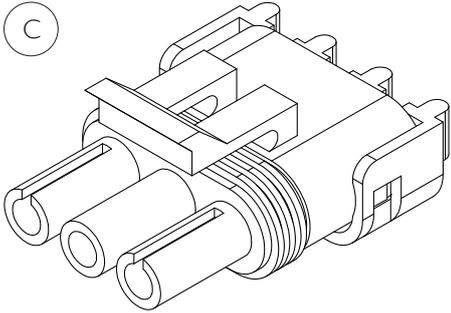
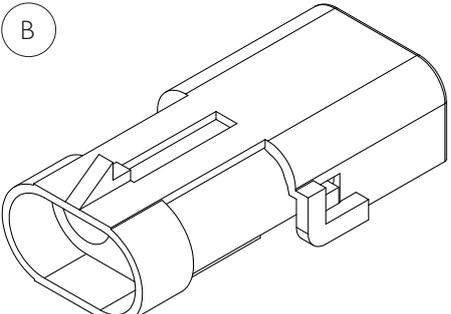
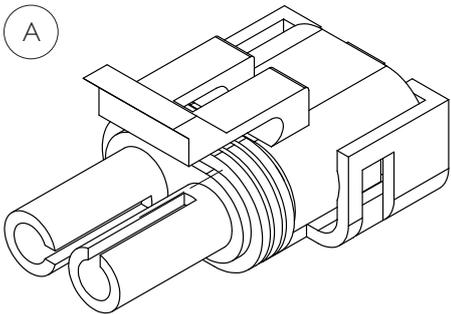
ITEM	PART NO	DESCRIPTION
1	4084001014	Male Flow Meter Connector
2	4084001015	Female Flow Meter Connector
3	4084001010	Male Speed Sensor Connector
4	4084001016	Female Speed Sensor Connector
5	4084001062	Male Pin for Flow Meter & Speed Sensor Connectors
6	4084001063	Female socket for Flow Meter & Speed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

# Raven (AMP) Electrical Connectors



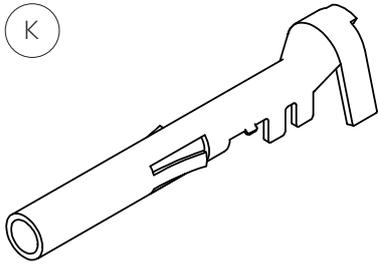
ITEM	PART NO	DESCRIPTION
1	4084001017	Male Loom Connector for 440 & 450 Consoles (16 Pin)
2	4084001018	Female Loom Connector for 440 & 450 Consoles (16 Pin)
3	GA5049175	Backing Shell for 16 Pin Connectors
4	GA5048905	Gold Male Pin For Raven Loom Connectors
5	GA5048900	Gold Female socket for Raven Loom 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

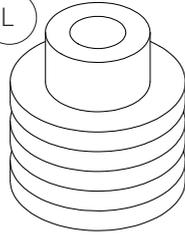


## Electrical Connectors

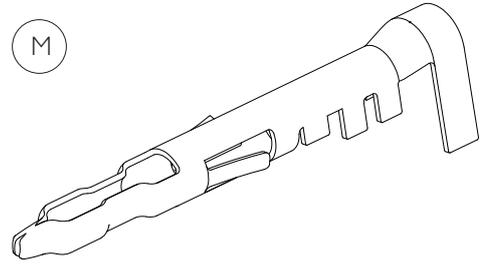
(K)



(L)



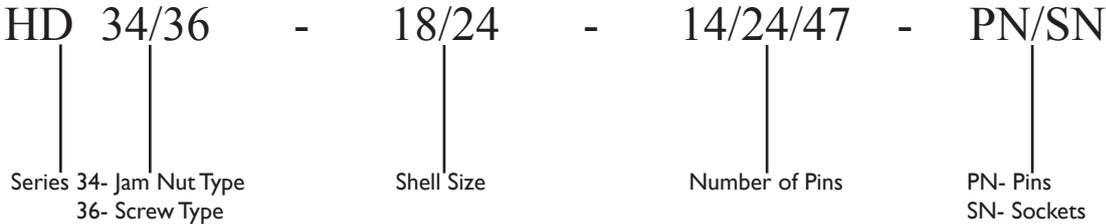
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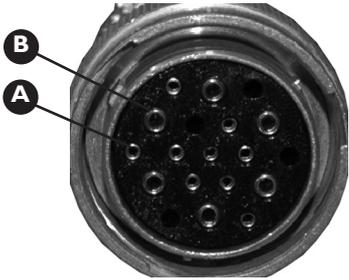
ITEM NO	PART NO	DESCRIPTION
A	GA5001351	Male 2 Pin Plug
B	GA5007381	Female 2 Pin Plug
C	GA5002211	Male 3 Pin Plug
D	GA5048550	Female 3 Pin Plug
E	GA5007385	Male 4 Pin Flat Plug
F	GA5007383	Female 4 Pin Flat Plug
G	GA5004009	Male 6 Pin Plug
H	GA5002663	Female 6 Pin Plug
I	GA5049000	Male 4 Pin Square Plug
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

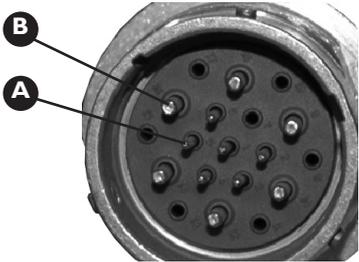
Deutsch Part Number Breakdown



Item	Part No	Description
A	GA5061225	16GA Female Deutsch Socket
B	GA5061270	12GA Female Deutsch Socket



Item	Part No	Description
A	GA5061240	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)
GA5061225	Small Male Socket
GA5061260	Large Male Socket



Part No	Description
GA5062640	HD36-24-47-SE-059 Connector(47 Pin)
GA5061210	Small 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



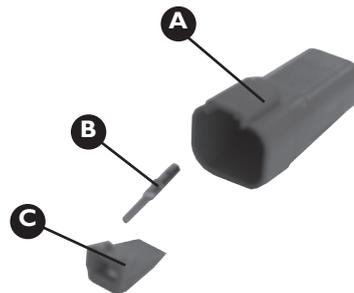
Part No	Description
GA5020925	Plug for size 24 Connector with External Thread on Connector
GA5020915	Plug for size 18 Connector with External Thread on Connector



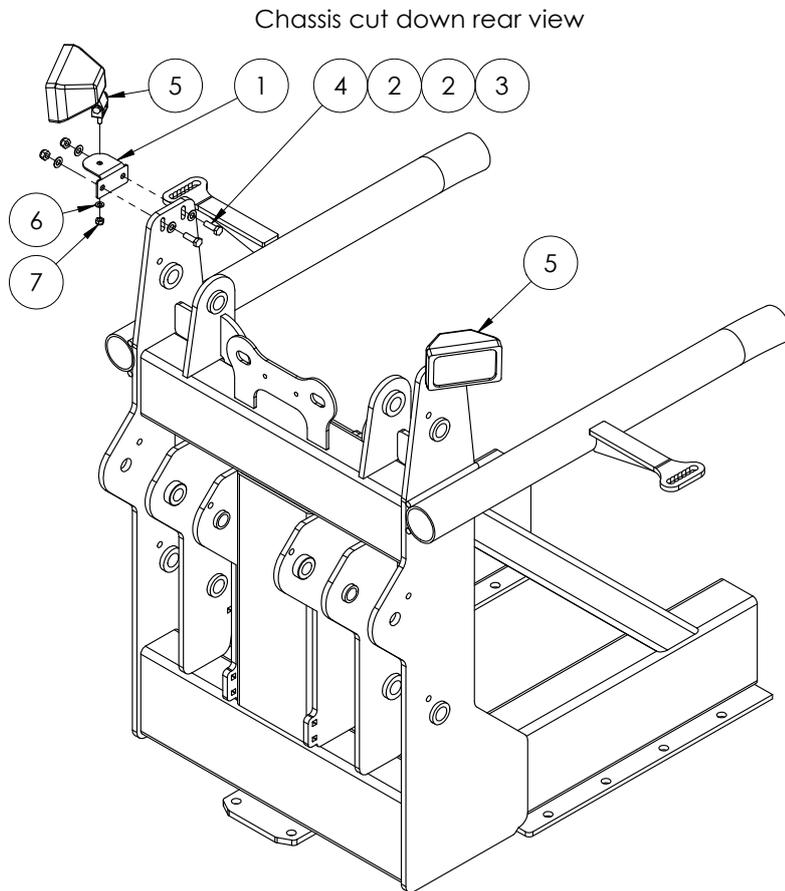
Item	Part No	Description
A	GA5012399	Connector Lock Nut suit 24 shell
	GA5009887	Connector Lock Nut suit 18 shell
B	GA5017621	Connector Lock Washer suit 24 shell
	GA5009893	Connector Lock Washer suit 18 shell



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

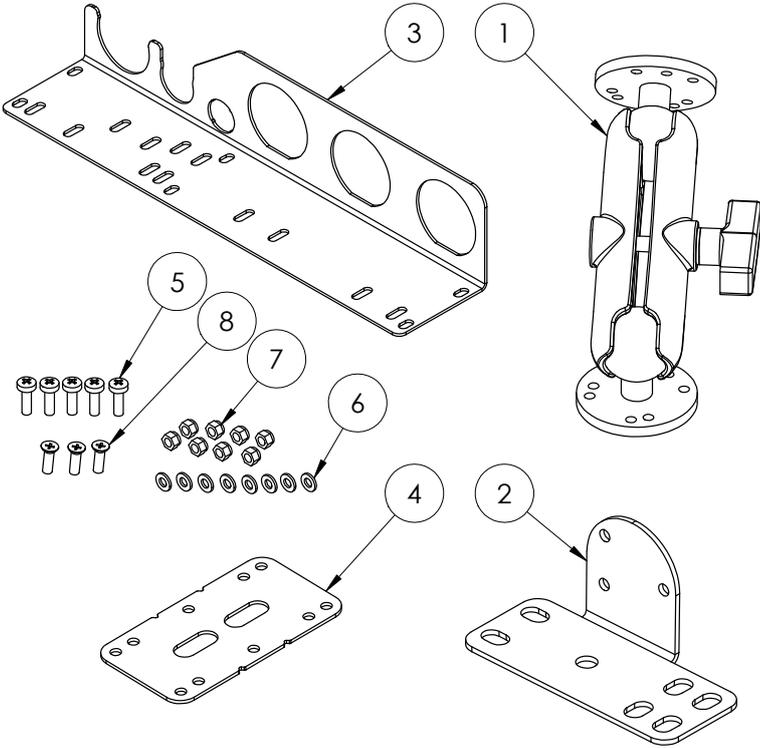


# Boom Lights Mount



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 (no plug)	2
6	GA5004883	Washer 8mm SS	2
7	GA5051700	M8 Nyloc Nut	2

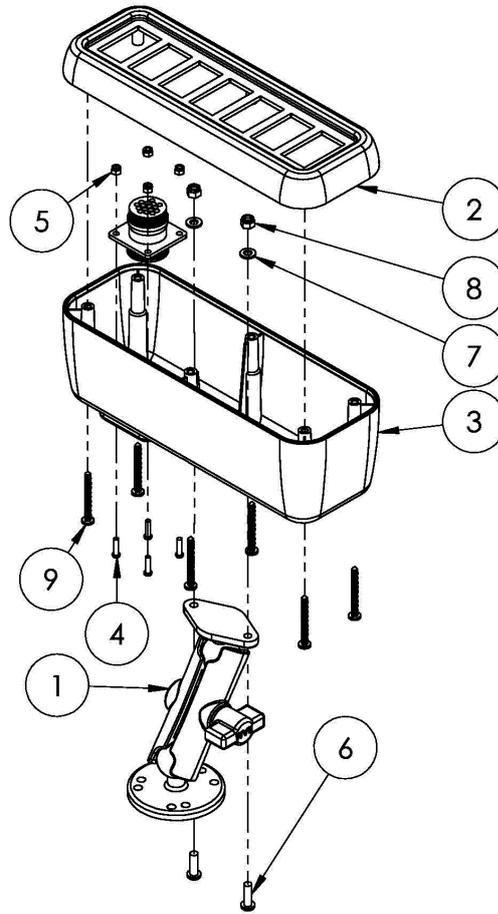
# Console Mounting Kit



GA4903666 Complete console mounting kit

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5020825	Universal Standard Mount RAM IO1	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

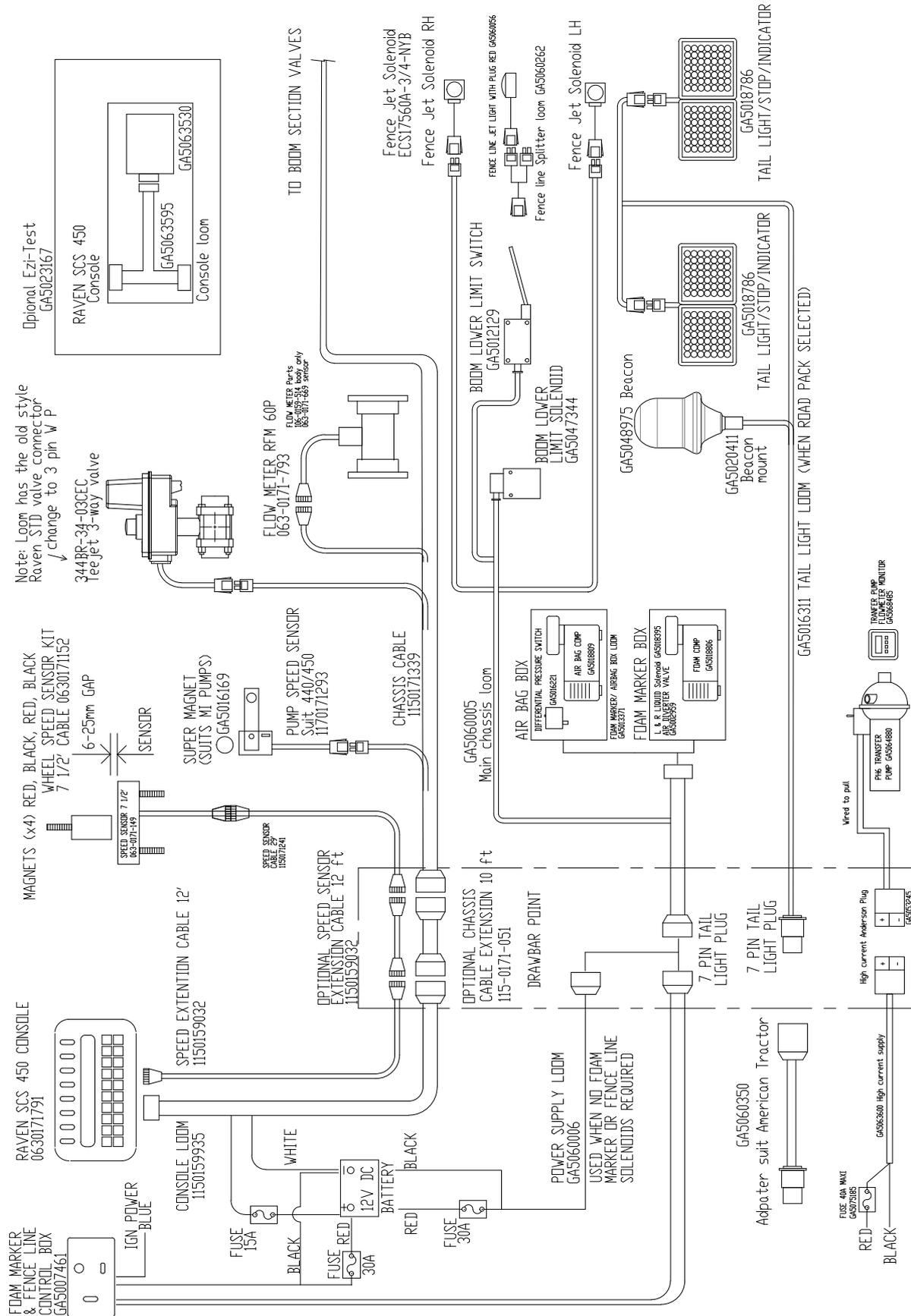


For switchbox decals refer to chapter 17 “Decals”

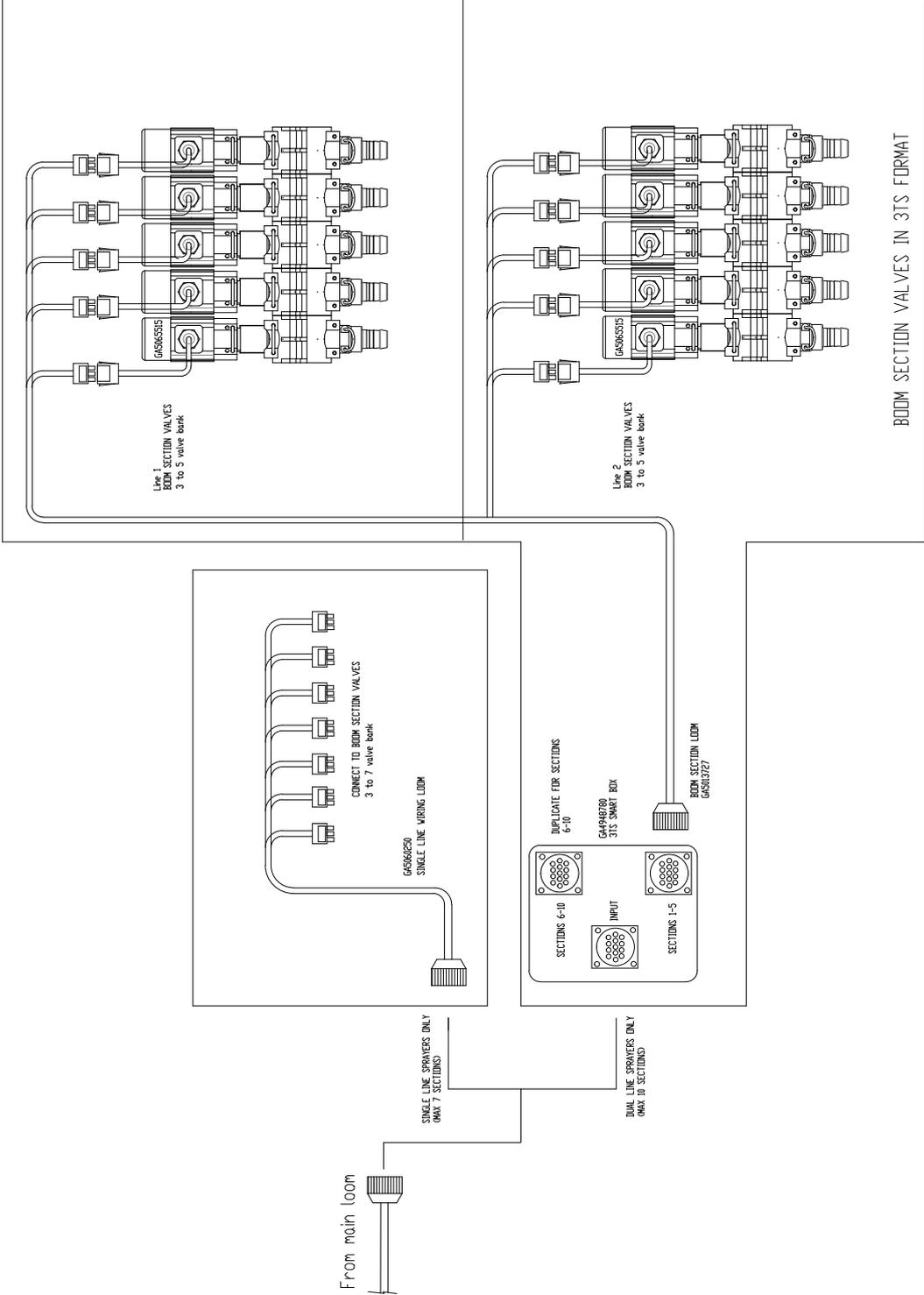
SWITCH PART NUMBERS	
On/Off switch	GA5012671
On/Off/On	GA5012673
Mom On/Off/ Mom On	GA5060410
Blank insert	GA5006421
Steering Calibrate switch	GA5075180

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 self tapping s/s	6
10	GA5060242	Hyd functions/base sprayer control box loom	1

# Electrical Layout - Overview



# Electrical Layout - Overview

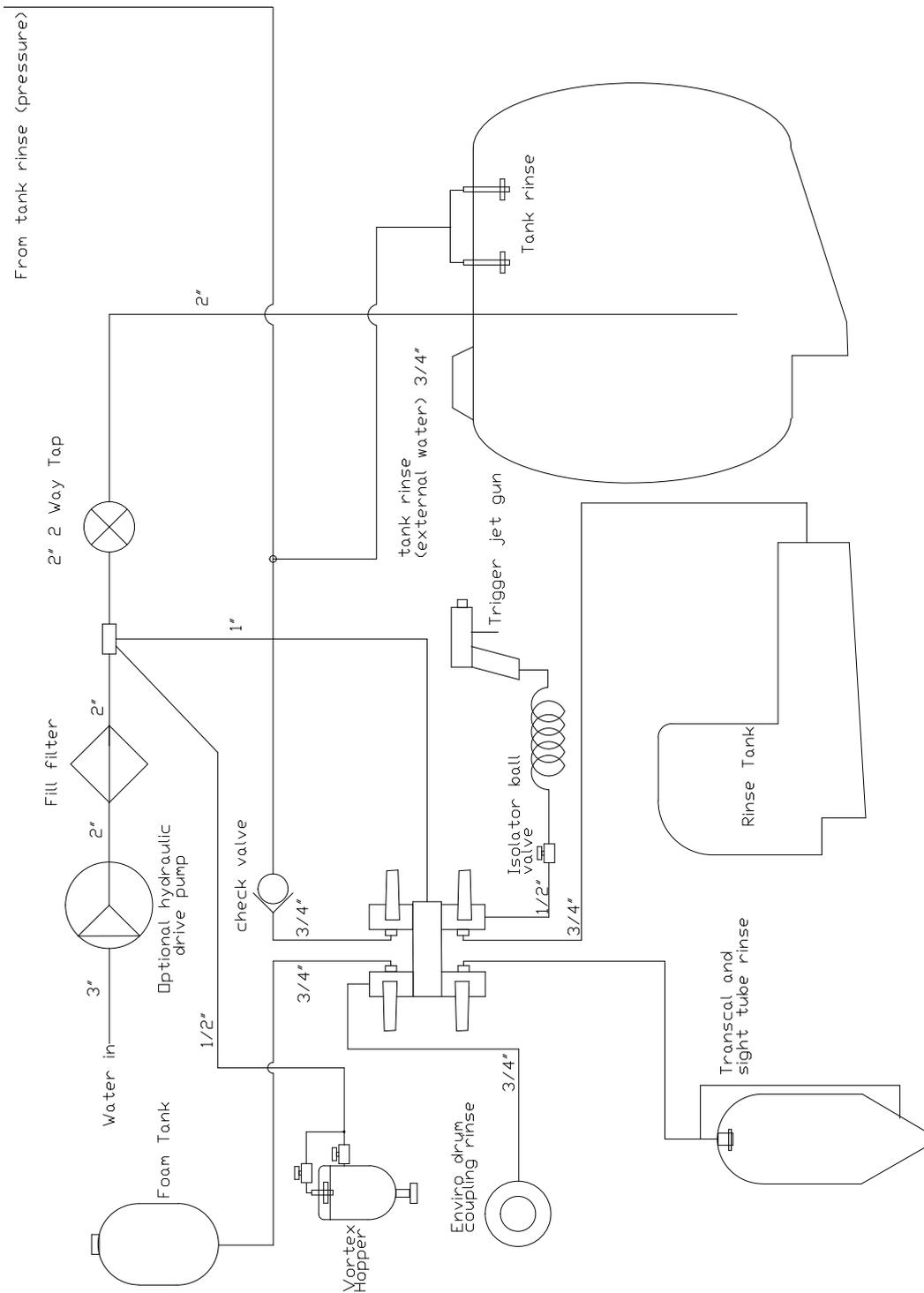




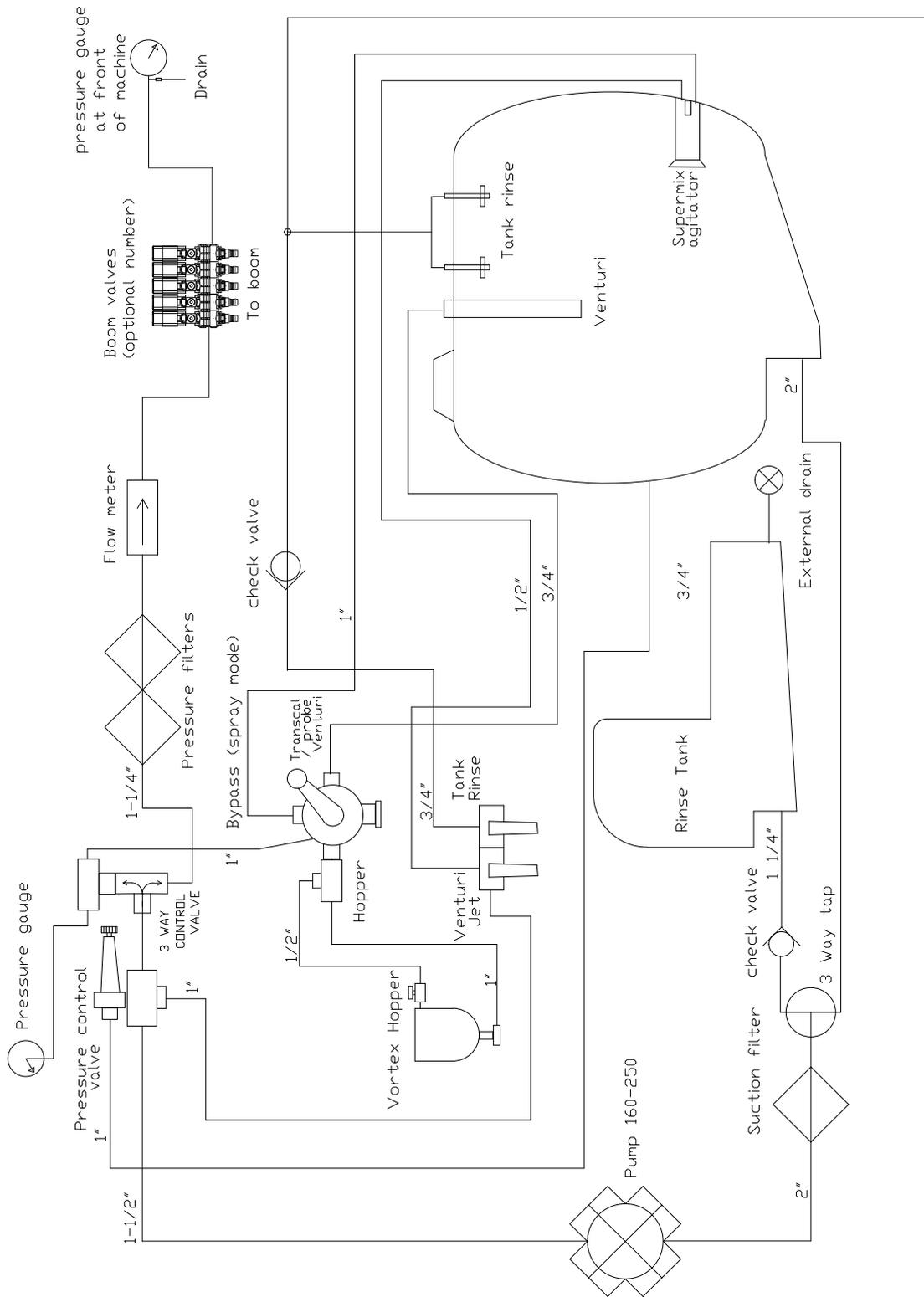
# Chapter 16

## SCHEMATICS

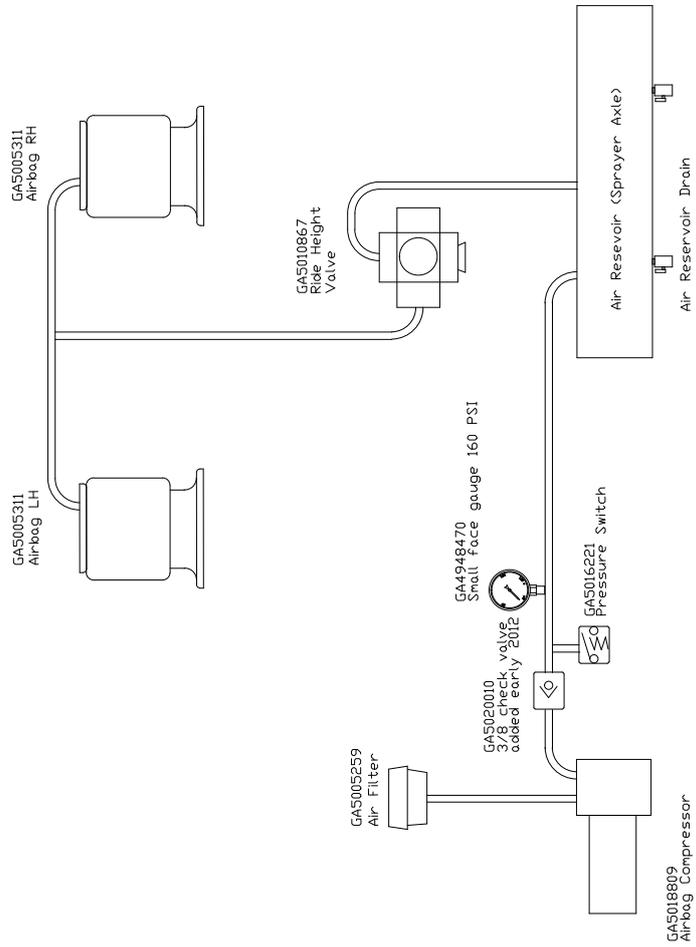
### Fresh Water Delivery



# Pressure Schematic



# Pneumatic Schematic







3

## WARNING

FLUSH CHEMICAL FROM EQUIPMENT IMMEDIATELY AFTER USE

**HOPPER RELEASE:**  
Use caution when lowering hopper

1. Support hopper with left hand.
2. Release hopper catch with right hand.
3. Gently lower hopper into working position.

NOT FOR USE WITH FLAMMABLE LIQUIDS

**WARNING**

**CAUTION** HOPPER MUST BE LOCKED INTO RAISED POSITION WHEN SPRAYER IS MOVING

4

## DANGER

- NEVER WORK UNDER HYDRAULICALLY RAISED BOOM.
- CLOSE HYDRAULIC LIFTING CYLINDER TO MINIMUM HEIGHT POSITION BEFORE ATTEMPTING ANY BOOM MAINTENANCE.
- KEEP CLEAR OF OVERHEAD POWERLINES. CONTACT CAN CAUSE DEATH.
- MAKE SURE SPRAYER CAN SAFELY PASS UNDER ALL OVERHEAD OBSTRUCTIONS.

## CAUTION

- DO NOT TRAVEL WITH THE BOOM IN THE FOLDED POSITION UNTIL THE BOOM IS LOWERED ONTO RESTS.
- BOOM MUST BE RAISED CLEAR OF RESTS WHEN UNFOLDED OR SERIOUS BOOM DAMAGE MAY RESULT.

GA209 EVO

5

## WARNING

**DO NOT STAND ON THIS PLATFORM OR STEPS**

When the sprayer is in motion or the booms are being folded or unfolded

**DO NOT ENTER TANK  
DO NOT CLIMB ON TANK**

6

## GREASE

GA222 EVO

8

**Spray pressure drain valve**

GA5061900

7

GA212 EVO

**Main Tank Drain**

9

**KEEP HANDS CLEAR**

GA5015991 EVO

10

BOOM SECTIONS 6-10

## Three Tier System

BOOM SECTIONS 1-5

**SMARTBOX INPUT**

GA220 EVO

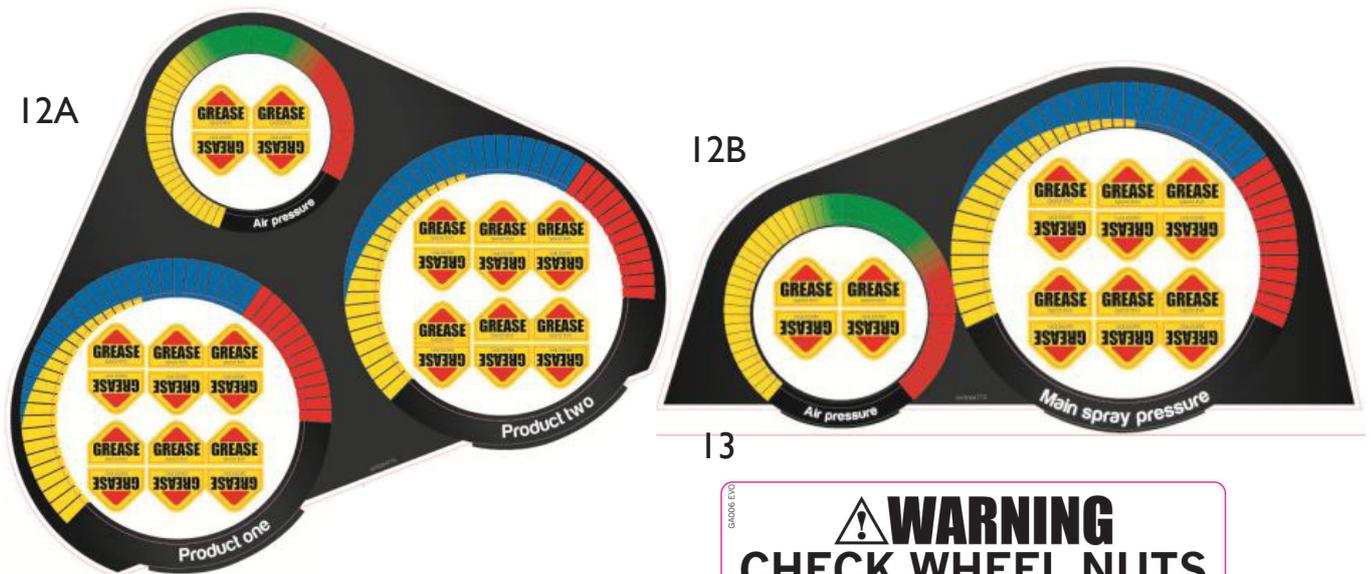
11

## DANGER

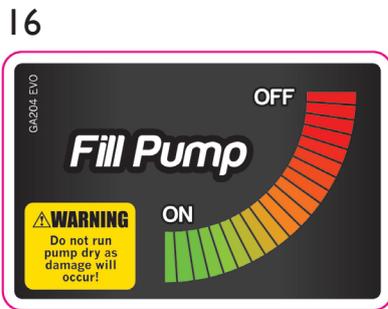
**STAND CLEAR**  
KEEP BYSTANDERS CLEAR OF BOOM OPERATING AREA

GA5013EVO

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

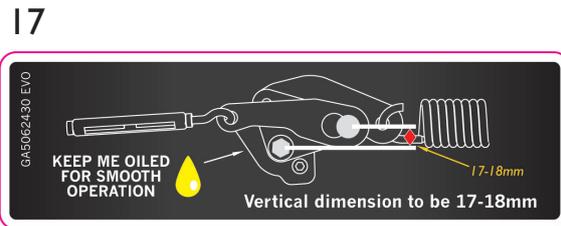


**WARNING**  
CHECK WHEEL NUTS



**DRAIN ONLY**

**CAUTION**  
Lower steps before winding jack handle.



**WARNING**

DO NOT SUPPORT SPRAYER WITH JACK UNLESS MAIN SPRAY TANK IS EMPTY

MAXIMUM SPEED WITH TANK LOADED (20km)

MAXIMUM SPEED WITH TANK EMPTY (40km)

MAXIMUM PUMP SPEED 540 RPM (To avoid pump damage)

MAXIMUM PUMP SPEED 400 RPM (To avoid pulsation whilst spraying)

PTO SHAFT MAY NEED TO BE ALTERED TO SUIT INDIVIDUAL TRACTOR REQUIREMENTS

THE TARE WEIGHT OF THIS SPRAYER IS APPROXIMATELY \_\_\_\_\_ kg

MAKE SURE THIS WEIGHT DOES NOT EXCEED THE TOWING CAPACITY OF THE VEHICLE TO WHICH THIS SPRAYER IS ATTACHED.

MAKE SURE THE SPRAYER COMPLIES WITH ALL RELEVANT ROAD REGULATIONS FOR AGRICULTURAL MACHINERY.

DO NOT RUN PUMP DRY (To avoid pump seal damage)

SET HYDRAULIC OIL FLOW ACCORDING TO TRACTOR HYDRAULIC SYSTEM (To avoid hydraulic seal damage)

REFER TO OPERATORS MANUAL TO SET CORRECT HYDRAULIC OIL FLOW

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12A	GA5064770	Dual Product Spray Pressure/Air pressure	1
12B	GA5064775	Main spray pressure/Air 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



24



25



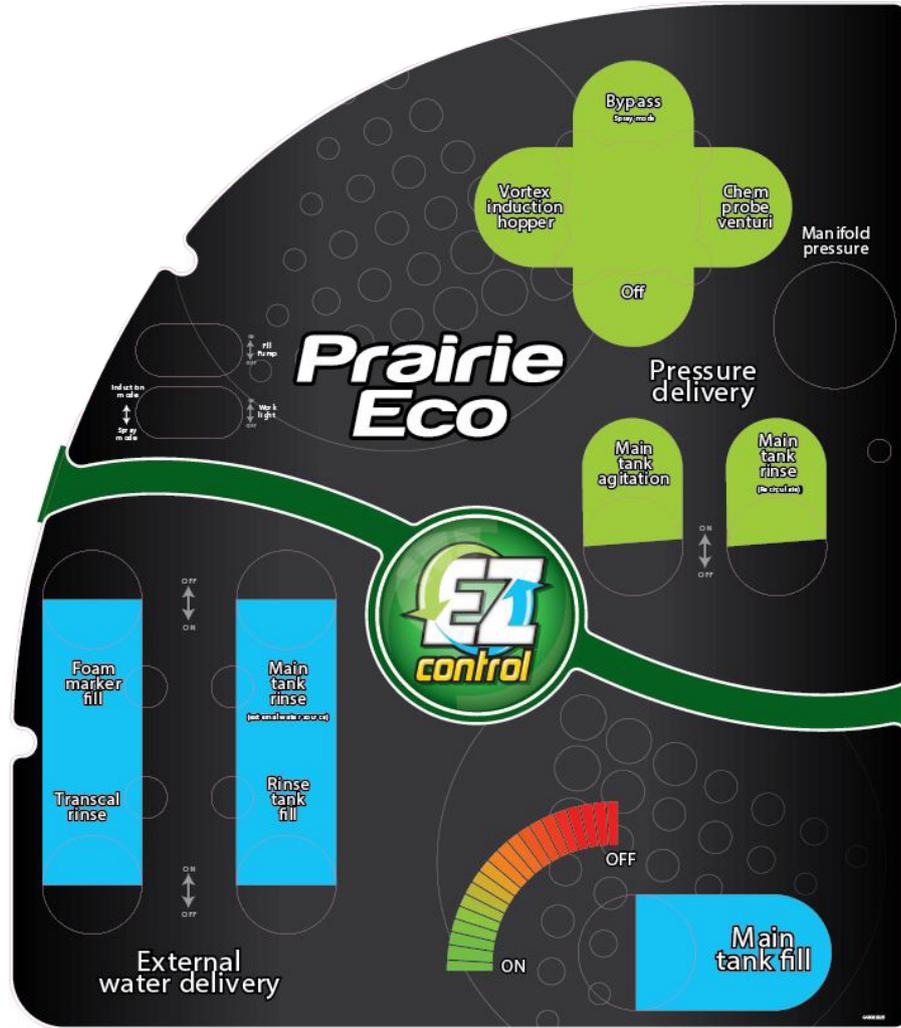
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27

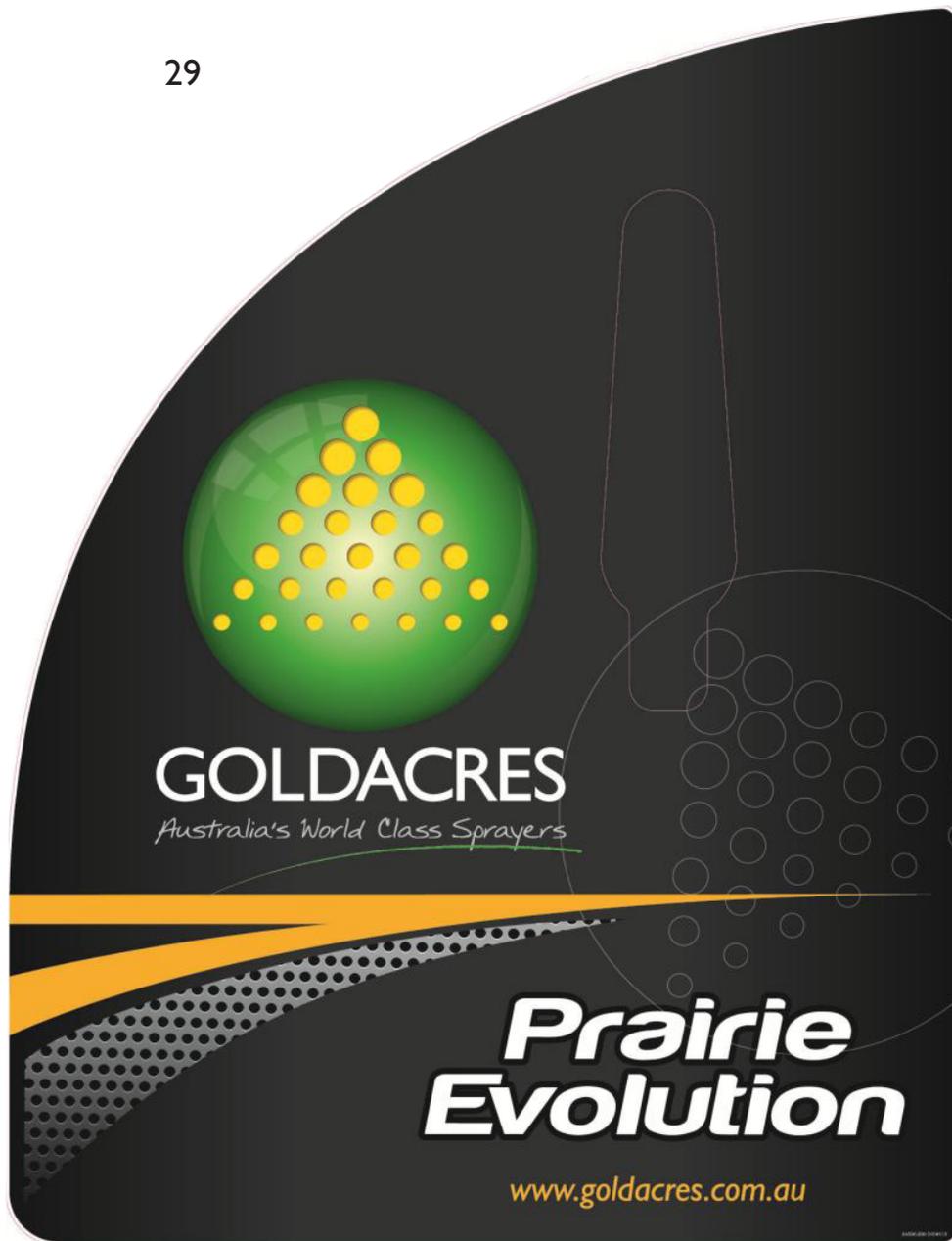


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
20	GA5062475	Flush Water Only	1
21	GA5062485EVO	Foam Marker Concentrate	1
22	GA5062085EVO	Transcal	1
23		Keep Me Oiled	2
24	GA5062095EVO	Vortex	1
25	GA5062870	Foam & Airbag Filter	1
26	GA5063370	Warning Nozzles	2
27	GA5062470	Foam Marker Water	1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
28	GA5061825	Pod Taps	1

29



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
29	GA5061830EVOMY13	Left Hand Pod Outer	1



# EZ Control quick start guide

**Foam Fill**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to ON
3. Move handle of Main Tank Agitation to ON
4. Move handle of Foam Marker Fill to ON

**Main Tank Rinse Fresh Water**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to ON
3. Move handle of Main Tank Agitation to ON
4. Move handle of Main Tank Rinse (CUTTING) to ON

**Spray Mode**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to OFF
3. Move handle of Main Tank Agitation to ON
4. Move handle of Main Tank Fill to OFF

**Fill Main Tank**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to ON
3. Move handle of Main Tank Agitation to ON
4. Move handle of Main Tank Fill to ON

**Use Hopper**

1. Move handle to Vertex Injection Hopper
2. Move Fill Pump Switch to OFF
3. Manifold pressure should read 210psi minimum
4. Move handle of Main Tank Agitation to ON
5. Move handle of Main Tank Fill to OFF

**Use Probe DCI Transcal**

1. Move handle to Chem Probe Inlet
2. Move Fill Pump Switch to OFF
3. Manifold pressure should read 210psi minimum
4. Move handle of Main Tank Agitation to ON
5. Move handle of Main Tank Fill to OFF

**Transcal Rinse**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to ON
3. Move handle of Main Tank Agitation to ON
4. Move handle of Main Tank Fill to ON
5. Move handle of Transcal Rinse to ON

**Main Tank Rinse High Pressure**

1. Move handle to OFF (DO NOT OPERATE IN THIS POSITION)
2. Move Fill Pump Switch to OFF
3. Manifold pressure should read 300psi
4. Move handle of Main Tank Rinse (CUTTING) to ON
5. Move handle of Main Tank Fill to OFF

**Set System Pressure**

1. Move handle to OFF (DO NOT OPERATE IN THIS POSITION)
2. Move Fill Pump Switch to OFF
3. Manifold pressure should read 210psi
4. Move handle of Main Tank Fill to OFF

**Fill Fresh Water Tank**

1. Move handle to Bypass (OFF/PAUSE MODE)
2. Move Fill Pump Switch to ON
3. Move handle of Main Tank Agitation to ON
4. Move handle of Main Tank Fill to OFF
5. Move handle of Rinse Tank Fill to ON

**WARNING**

- If operated incorrectly, this machine could cause serious injury or death. For safety precautions, read the operators manual.
- Stop engine and remove the ignition key from the tractor before working on this machine.
- Do not start the machine without ensuring all objects are well clear of working parts.
- Secure the horn of the tractor before start up.

**High pressure fluid hazard**

- To prevent serious injury or death from escaping hydraulic fluids.
- Visually check all hydraulic hoses before applying pressure.
- Release system pressure before maintenance or disconnecting hydraulic lines.

Please use relevant safety protection clothing and equipment. Refer to chemical manufacturers requirements. Agricultural chemicals can be dangerous, improper application or use can seriously injure persons, animals, plants, soil or other property.

**Be Safe**

- Select the right chemical for the job.
- Handle chemicals with care.
- Follow the instructions on the container label and of the equipment manufacturer.
- Always wear protective clothing.

**CAUTION**

1. Read chemical manufacturers WARNINGS, instruction, and precautions and follow them exactly.
2. Avoid exposure to chemicals and spray drift, keep bystanders away.
3. Inspect and secure all guards before spraying.
4. Keep hands, feet, hair and clothing away from moving parts.
5. Do not allow persons to ride on sprayer.
6. Keep all chemical and hydraulic lines, fittings and couplers tight and free of leaks before starting and operating.
7. Review safety instructions and safety devices with all operators regularly.
8. Do not fill tank or operate boom when not attached to tractor.

FLUSH CHEMICALS FROM EQUIPMENT IMMEDIATELY AFTER USE  
**CLEAN AIR FILTER DAILY**



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

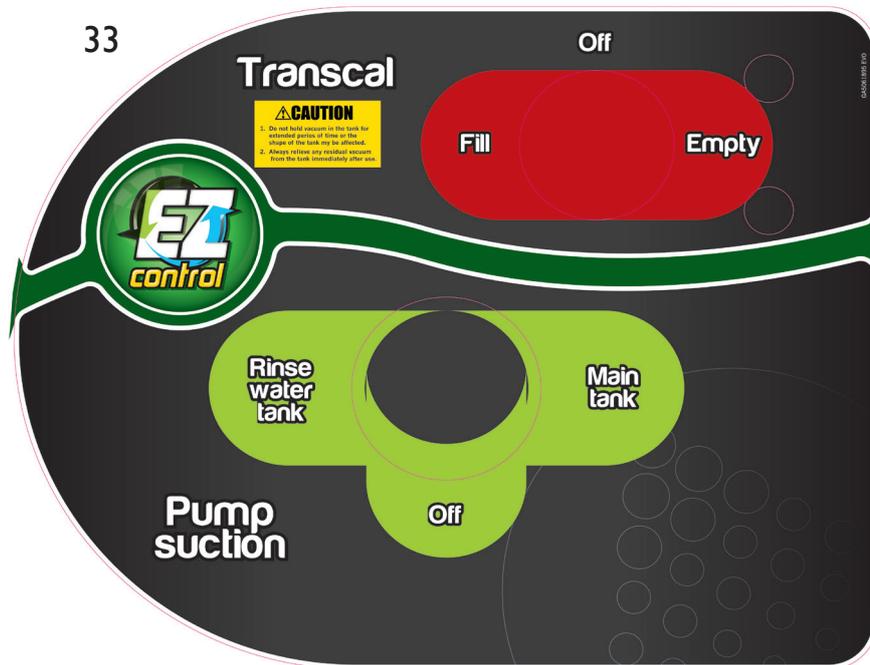
31



32



33



34



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
31	GA5061885	Goldacres	1
32	GA5061890EVO	Tri-Tech #1 for Boom	1
33	GA5061895EVO	Transcal	1
34	GA5065195	Prairie Evolution Tank Decal - 6530	2
	GA5065190	Prairie Evolution Tank Decal - 6533	2
	GA5065085	Prairie Evolution Tank Decal - 6536	2

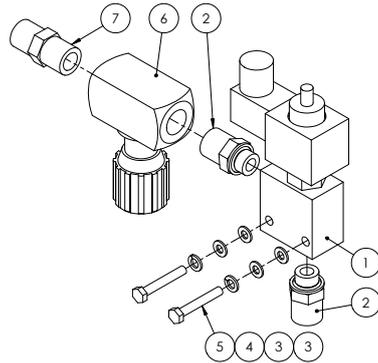
 **GOLDACRES**  
Switch Box - C  
Part # GA4903720

 <b>GOLDACRES</b>					
2nd product ON	Boom recirc ON	Foam ON	Foam LEFT	Boom lights ON	Fenceline left ON
OFF 2nd product	OFF Boom recirc	OFF Foam	RIGHT Foam	ON Beacon	ON Fenceline right

# Chapter 18

## HYDRAULICS

### 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

# Load Sense Turbo Valve

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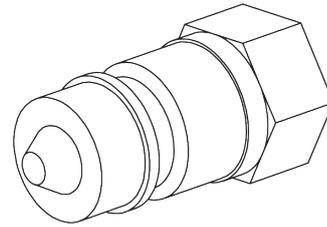
GA4902590 Complete Assembly

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

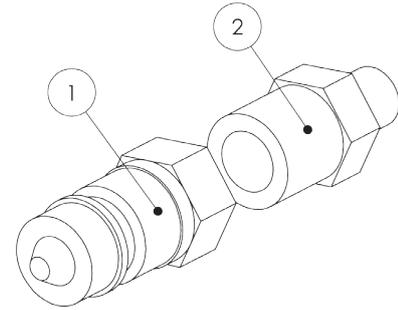
## 1/2" Hydraulic Lines

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



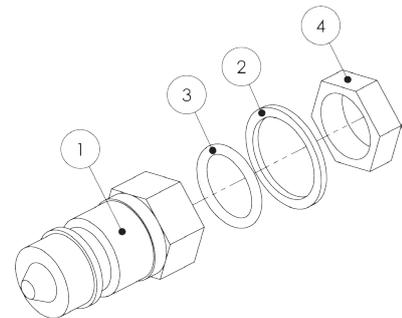
## 1/4" Hydraulic Lines

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

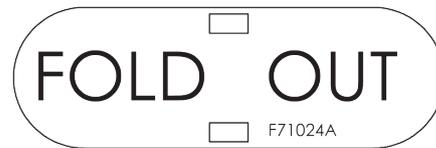


Note: Plastic Cover for when fittings are not in use is available Part No: GA5052365

# Hydraulic Hoses

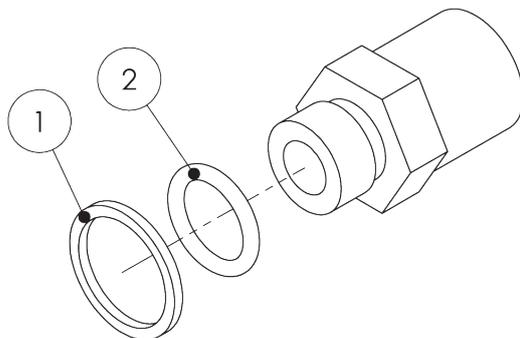
PART NO	DESCRIPTION
GA5067925	1/4" Hydraulic Hose, Tractor to fold cylinders
GA5067930	1/2" Hydraulic Hose, Tractor to Boom Lower Solenoid
GA5067940	1/2" Hydraulic Hose, Accumulator manifold to lift cylinders
GA5067945	1/4" Hydraulic Hose, Tractor to tilt cylinders

## Hose ID Tags



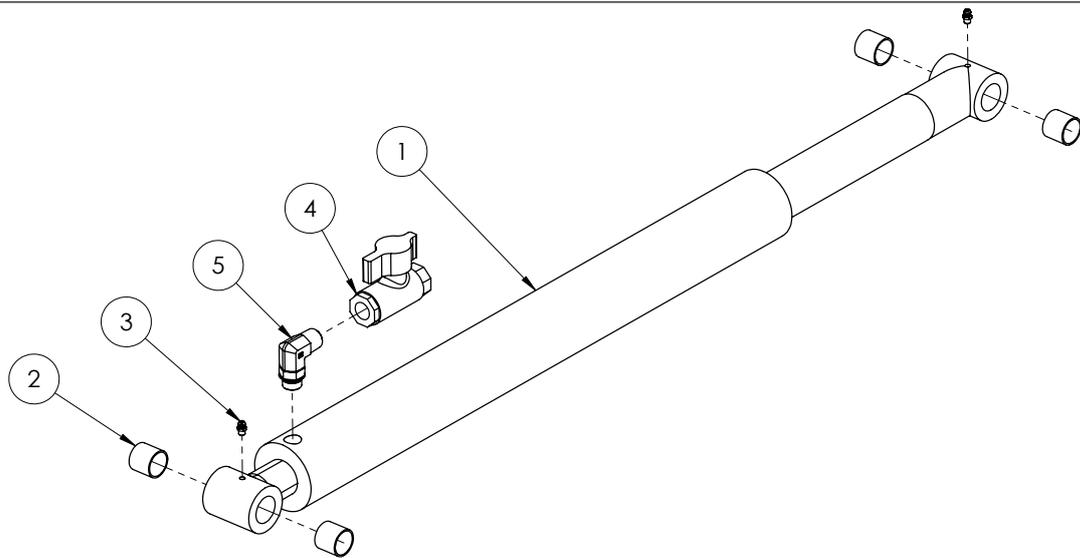
PART NO	DESCRIPTION
F71023A	Fold In Tag
F71024A	Fold Out Tag
F71025A	Boom Raise Lower Tag
F70134A	Tilt Left Tag
F70135A	Tilt Right Tag
F71018A	Bi-Fold In Tag
F71019A	Bi-Fold Out Tag
F71020A	Pressure Tag
F71021A	Tank Tag
F71022A	Load Sense Tag
F71026A	Brakes Tag

## Hydraulic O-Rings and Retaining Washers



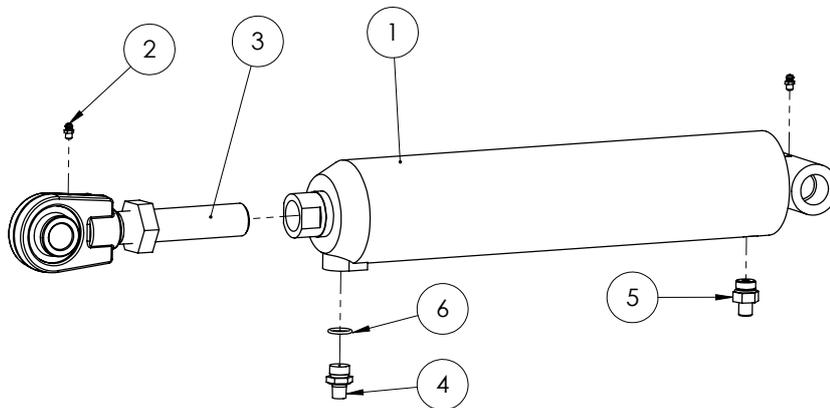
ITEM	PART NO	DESCRIPTION
1	36B-04	1/4" Retaining Washer
	36B-06	3/8" Retaining Washer
	36B-08	1/2" Retaining Washer
	36B-12	3/4" Retaining Washer
	36B-12	3/4" Retaining Washer
2	RO-BP04	1/4" Hydraulic O-Ring
	RO-BP06	3/8" Hydraulic O-Ring
	RO-BP08	1/2" Hydraulic O-Ring
	RO-BP12	3/4" Hydraulic O-Ring

## Hydraulic Cylinder - Boom Lift



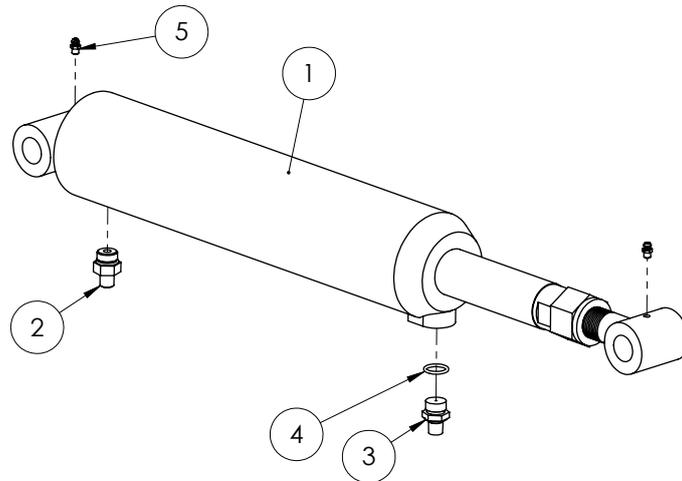
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070082	Hydraulic Cylinder 2.5" Bore, 2" Rod, 21" Stroke	1
2	GA5065487	1" ID, 1.125" OD glacier bush, 1" long	4
3	GA5012203	Grease Nipple 1/4" UNF Short	2
4	GA5000835	Ball valve hydraulic 1/2" FF	1
5	S89-0812	Elbow 90deg 1/2" BSP x 3/4" UNO	1
-	GA5052760	Hydraulic cylinder seal kit	-

## Hydraulic Cylinder - Wing Tilt



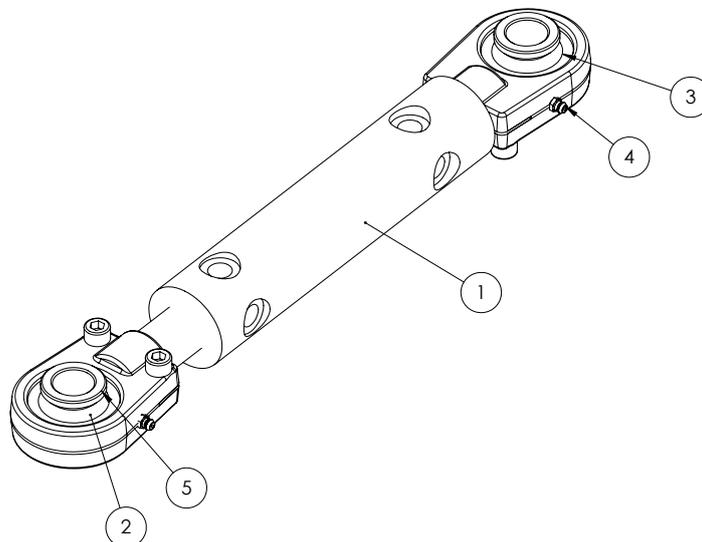
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065051	Hydraulic Cylinder 3.5"x5" stroke	1
2	GA5012203	Grease Nipple 1/4" UNF Short	2
3	GA5052762	Adjusting rod end c/w nut and ball	1
4	L068A	Restrictor Nipple 1/4 BSPT to 3/4 UNO 1.5mm orifice	1
5	S93-0412	Nipple 1/4" x 3/4" c/w O-RING	1
6	RO-BP08	1/2" BSPP O-Ring	1
-	GA5052730	Hydraulic Cylinder seal kit	-

## Hydraulic Cylinder - Wing Tilt



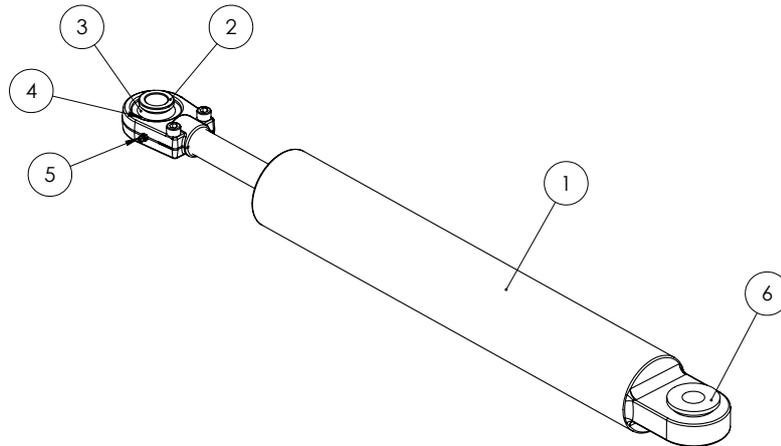
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065051	Hydraulic cylinder 3.5"x5" stroke	1
2	S93-0412	Nipple 1/4" x 3/4" c/w O-RING	1
3	L068A	Restrictor Nipple 1/4 BSPT to 3/4 UNO 1.5mm orifice	1
4	GA5001067	1/2" BSPP O-Ring	1
5	GA5012203	Grease Nipple 1/4" UNF Short	2
-	GA5052730	Hydraulic Cylinder seal kit	-
-	GA5052761	Adjusting rod end with nut and bushes (spare part)	-

## Hydraulic Cylinder - Yaw



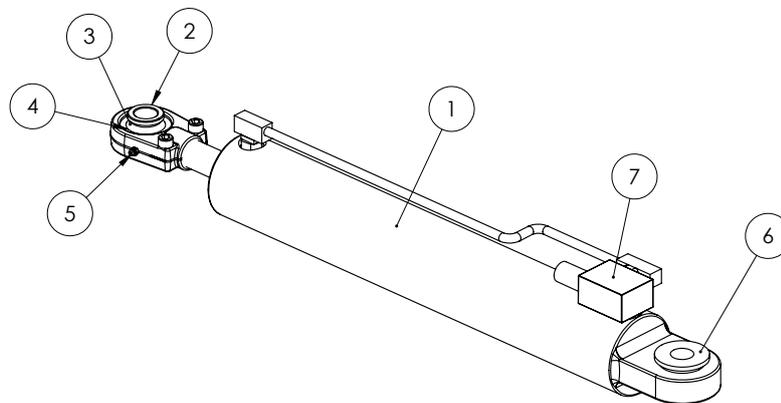
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060817	Hydraulic yaw cylinder 2" x 1 1/4" x 117.5	2
2	GA5067605	Bearing GEG 30 ES 2RS	2
3	GA5067610	Bearing Retaining clip set (2 per set)	2
4	GA5012203	Grease Nipple 1/4" UNF Short	2
5	GA5067600	Bearing Bush - Small	4
-	GA5052745	Cylinder Seal Kit	-

## Hydraulic Cylinder - Boom Fold RH



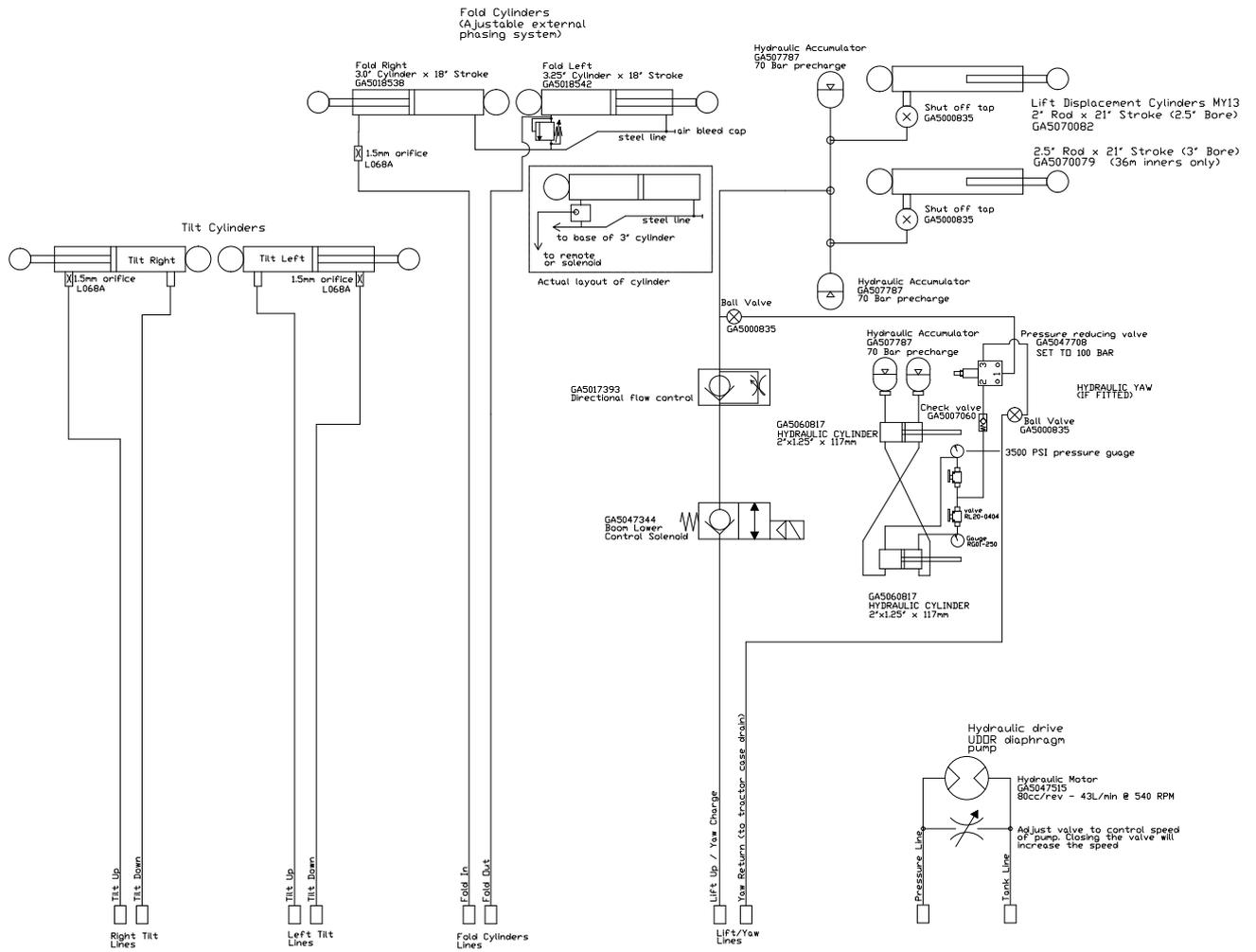
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018538	Hydraulic Cylinder 3" x 18" x 1.25" (external phasing)	1
2	GA5067600	Bearing Bush - Small	3
3	GA5067605	Bearing GEG 30 ES 2RS	2
4	GA5067610	Bearing Retaining clip set (2 per set)	2
5	GA5012203	Grease Nipple 1/4" UNF Short	2
6	GA5067595	Bearing Bush - Large	1
7	L068A		1
-	GA5052685	Hydraulic Cylinder seal kit	-

## Hydraulic Cylinder - Boom Fold LH



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018542	Hydraulic Cylinder 3.25" x 18" x 1.25" (external phasing)	1
2	GA5067600	Bearing Bush - Small	3
3	GA5067605	Bearing GEG 30 ES 2RS	2
4	GA5067610	Bearing Retaining clip set (2 per set)	2
5	GA5012203	Grease Nipple 1/4" UNF Short	2
6	GA5067595	Bearing Bush - Large	1
7	GA5022423	Relief Valve suit 3.25" phasing cylinder (spare part)	-
-	GA5052685	Hydraulic Cylinder seal kit	-

# Hydraulic Schematic

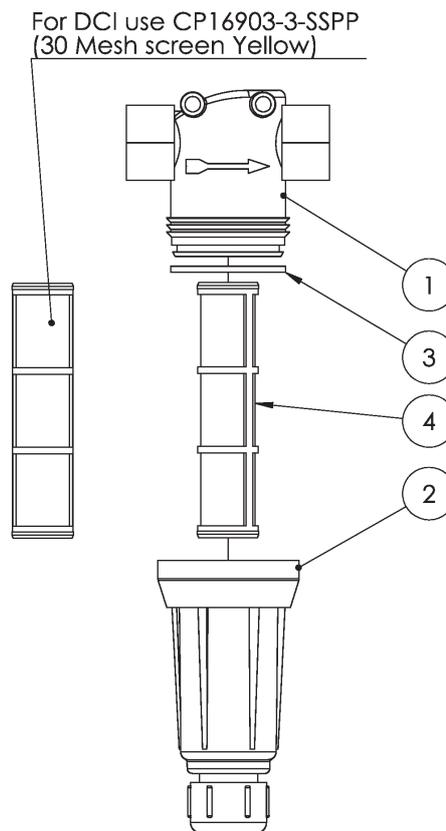




# Chapter 19

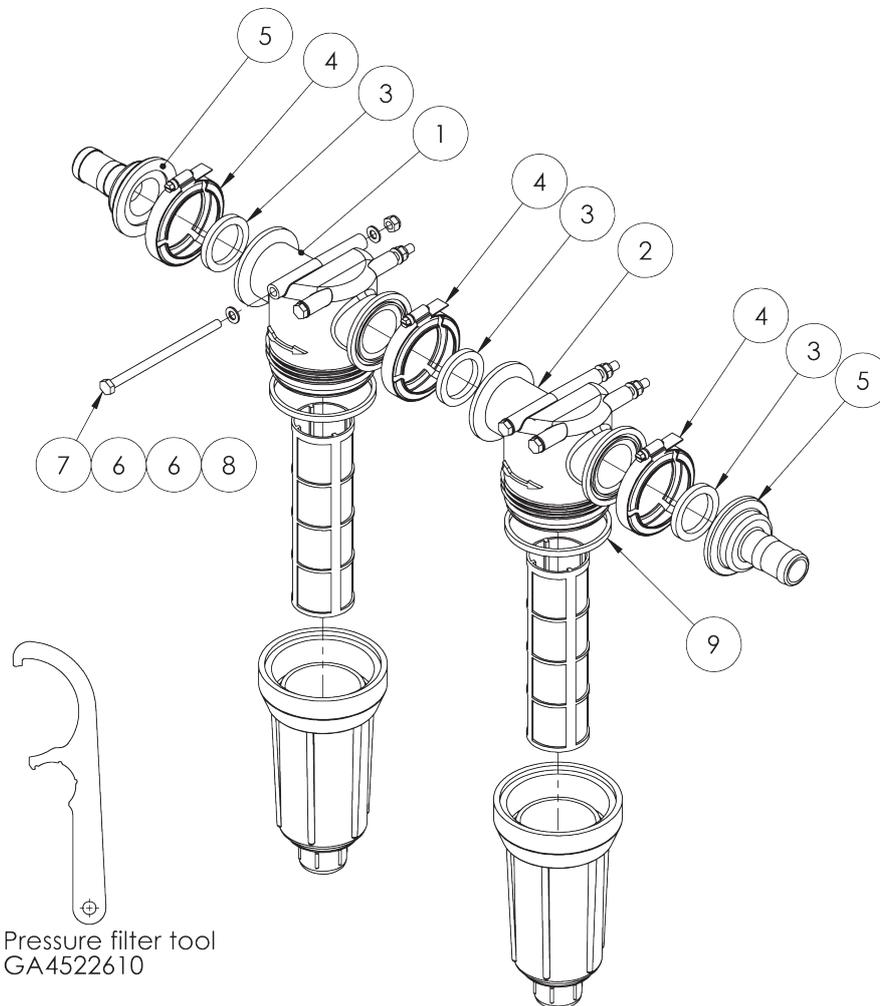
## FILTRATION & HOSE

### 3/4 BSP Filter with 200 mesh screen



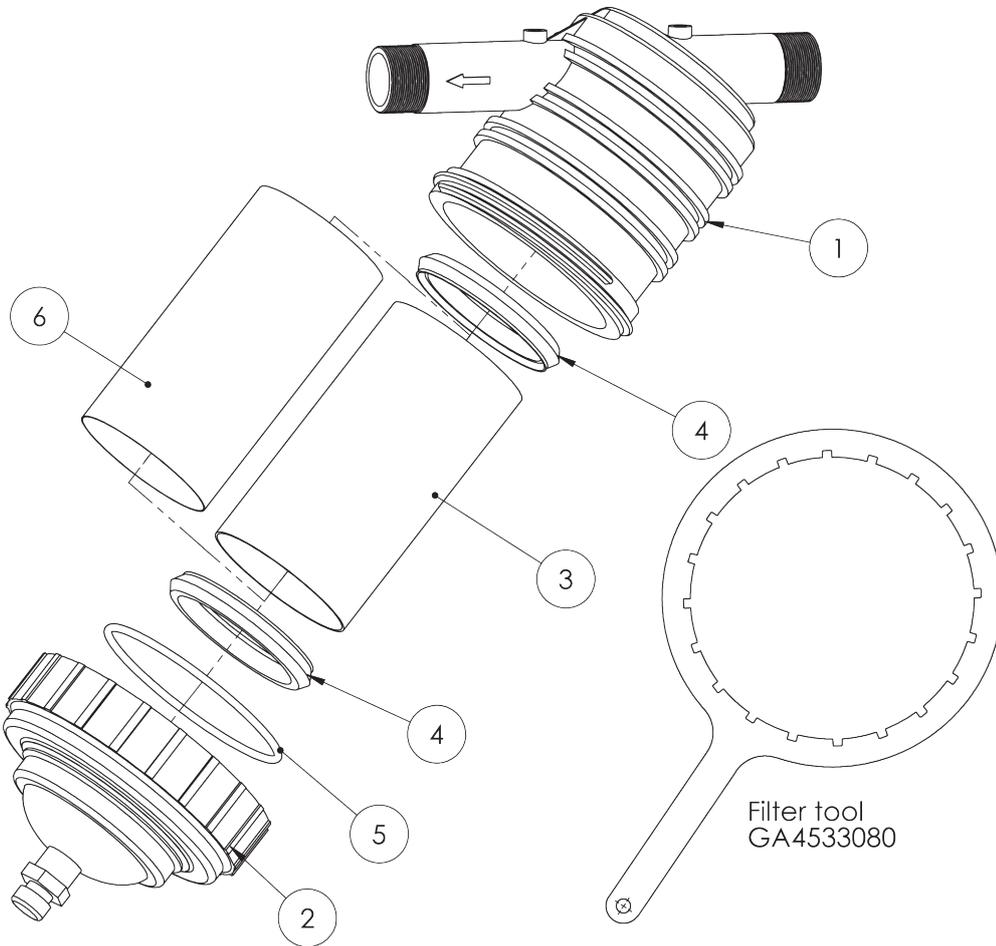
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CPB50492-3/4-PP	AAB126 Filter body	1
2	CPB50493-PP	AAB126 filter bowl	1
3	CP50494	AAB126 Filter bowl o-ring (square)	1
4	CP16903-7-SSPP	200 Mesh Screen for foam marker (Orange)	1

# Pressure Filter Assembly



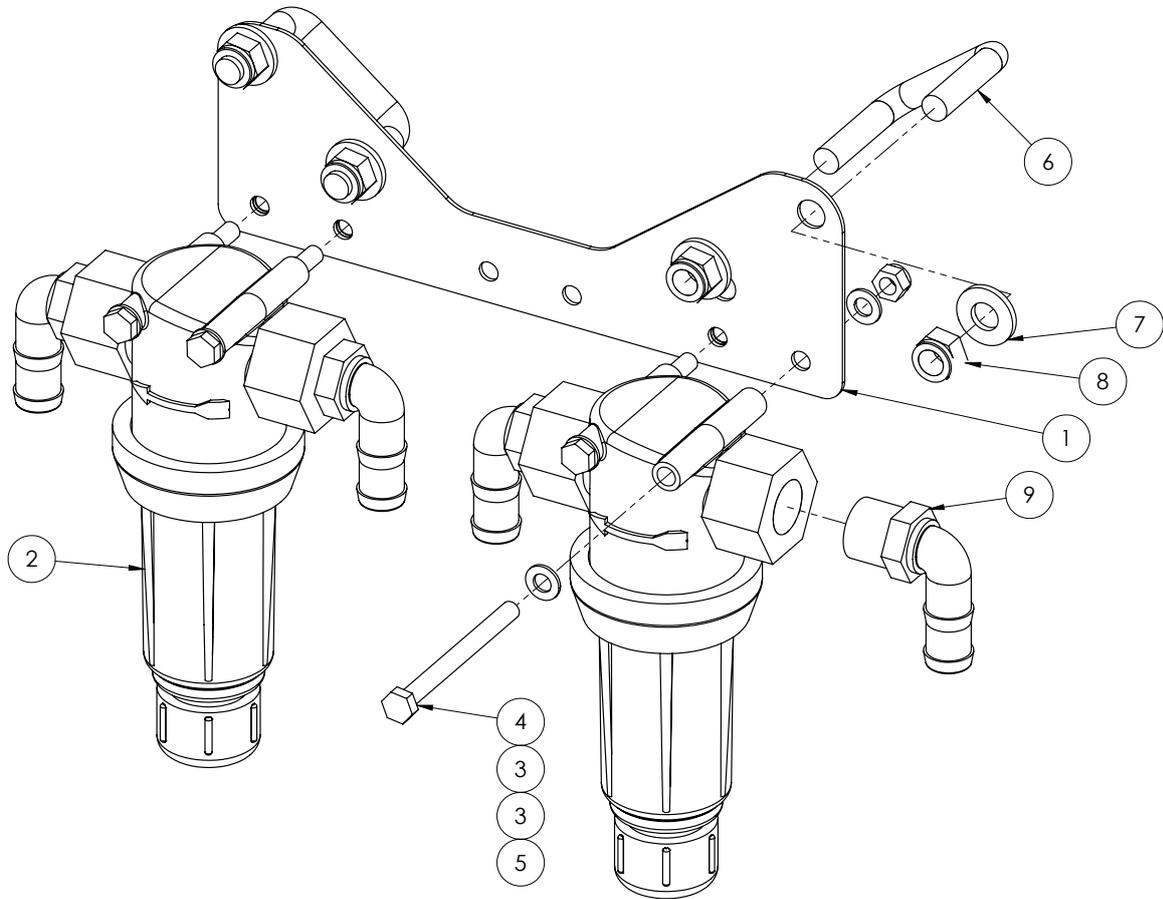
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	AAB126ML-F75-80	Flange filter with 80 Mesh screen	1
	CP15941-4-SSPP	80 Mesh Screen (Blue)	1
2	AAB126ML-F75-100	Flange filter with 100 Mesh screen	1
	CP15941-5-SSPP	100 Mesh Screen (Green)	1
3	GA5009335	Gasket Kamlock Nitrile 1 1/2 FIT 150	3
4	FC200	Screw clamp	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



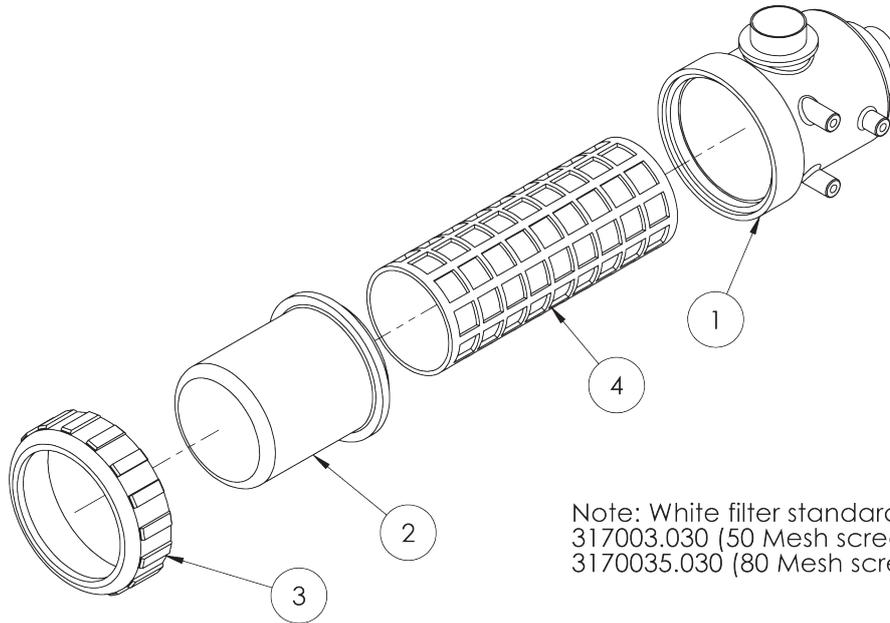
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	C00002066	Filter housing	1
2	C00201031	Filter bowl	1
3	3290003030	50 mesh screen	1
4	GA5001329	Filter seal	2
5	GA5012545	Filter O ring	1
6	GA5000421	120 mesh screen	1

## In Line Boom Filter



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4505205	Boom line filter mount plate bolt on	1
2	AAB126ML-3-200	3/4 BSP filter with 200 Mesh screen	2
3	GA5048115	Washer 8mm SS HD	8
4	GA5011495	M8x90 Bolt	4
5	GA5004917	M8 Nyloc Nut	4
6	GA5011243	M12x50x50 Square Top U bolt	2
7	GA5000587	M12 WASHER	4
8	GA5012461	M12 Nyloc nut Z/P	4
9	HB075-90	hose barb elbow 3/4" thread 3/4" barb	4

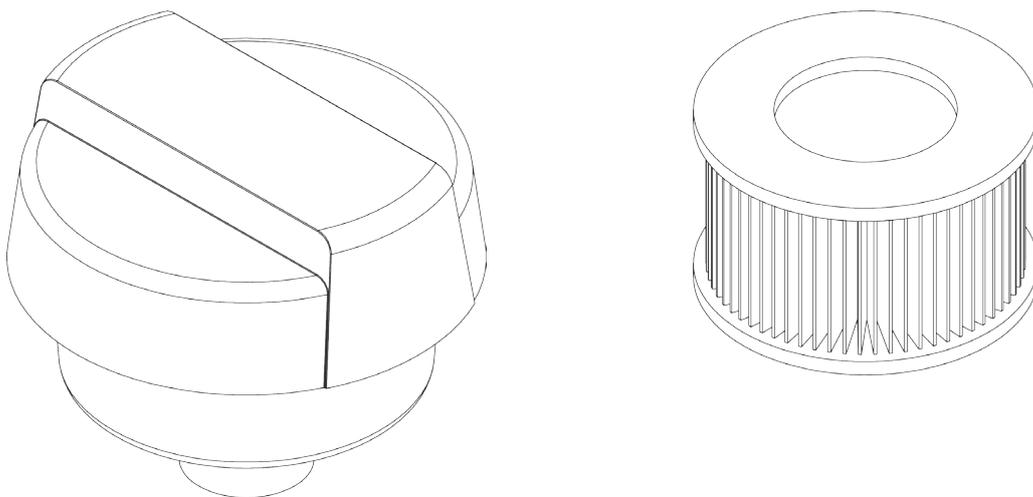
## 2" Suction Filter



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

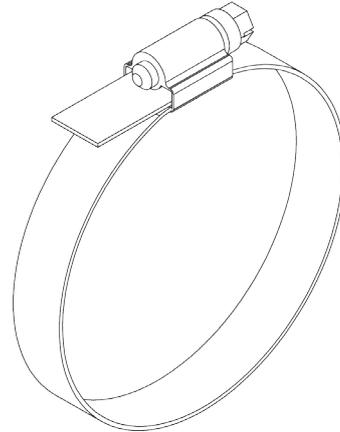


PART NO	DESCRIPTION
GA5005259	Air Filter Housing & Element
GA5049460	Air Filter Element

## Hose Clamps

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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

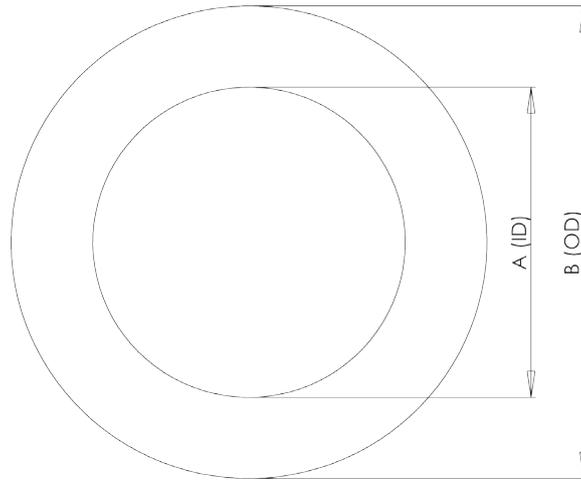


## Cable Ties

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

# 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	58mm

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

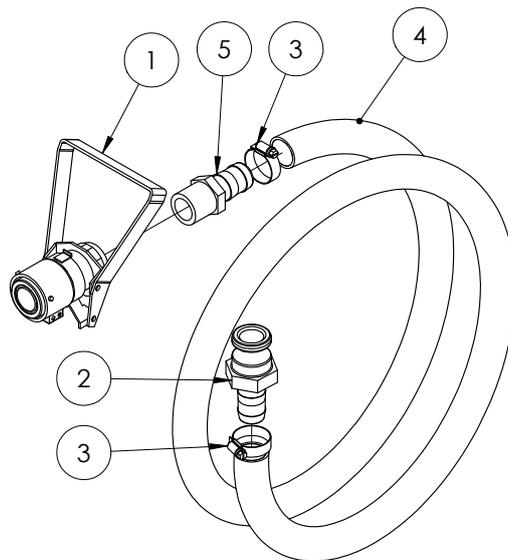
## Layflat Hose

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

# OPTIONAL ACCESSORIES

The below items are not factory options. They may be fitted to the sprayer as a Dealer Fitted Option (DFO). Contact your Goldacres dealer for more information on DFO's.

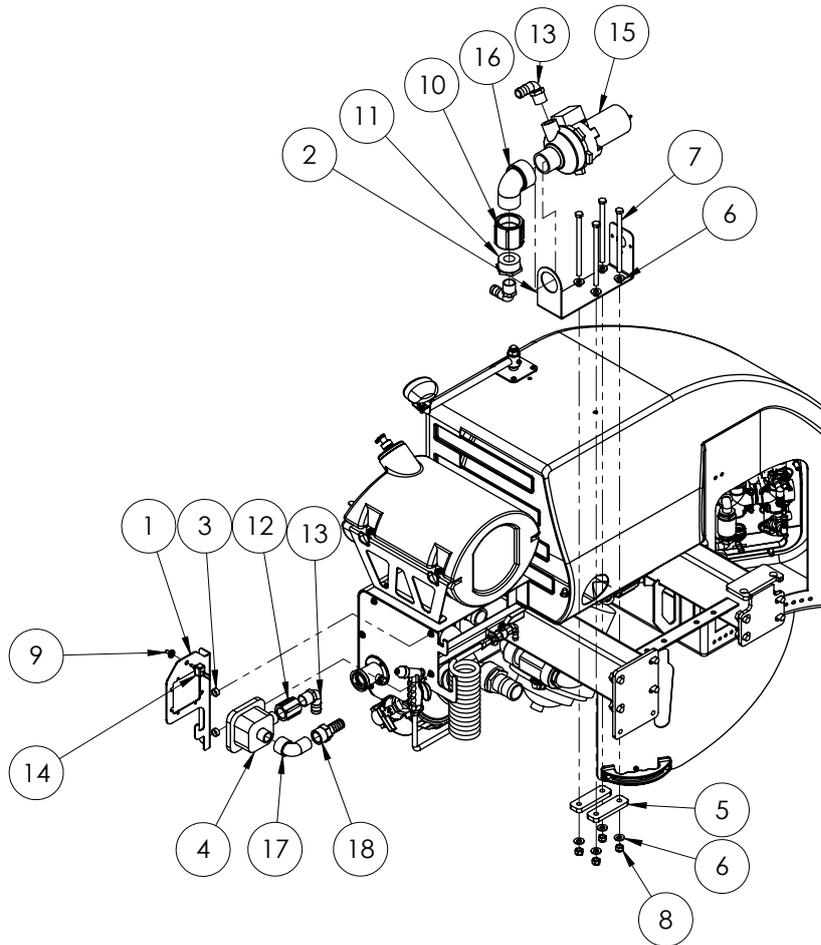
## Enviro Coupling & Hose



GA5020600 Complete Kit

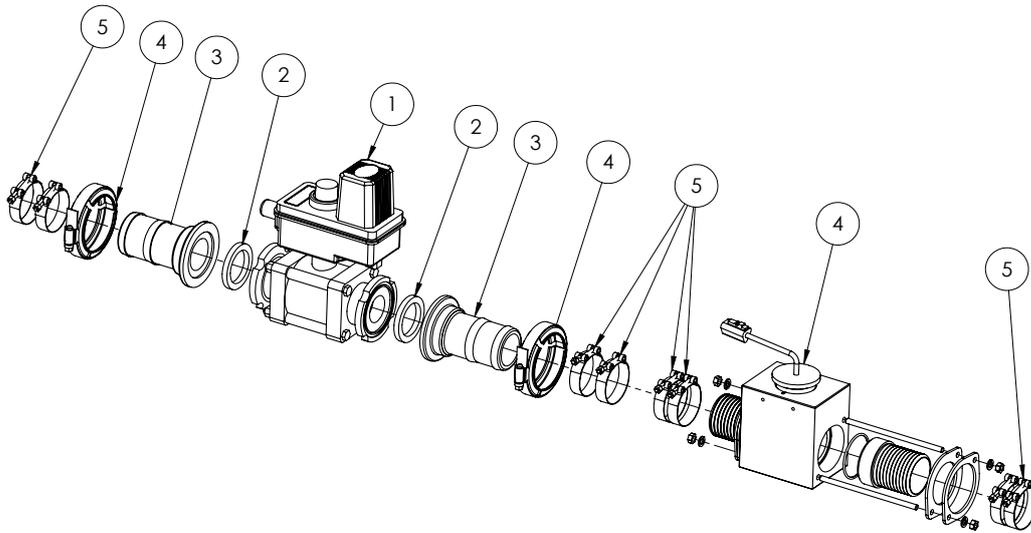
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018803	Coupler, 3 Pin, Viton Flow Control	1
2	100E Male Adapter	1" Hose Shank	1
3	GA5001681	1" SS hose clamp	2
4	HOS25PVC - suit enviro chem probe	PVC hose 25mm cut 2840mm	1
5	HB100	Hose Barb 1"	1

# PH6 Pump Mounting Kit



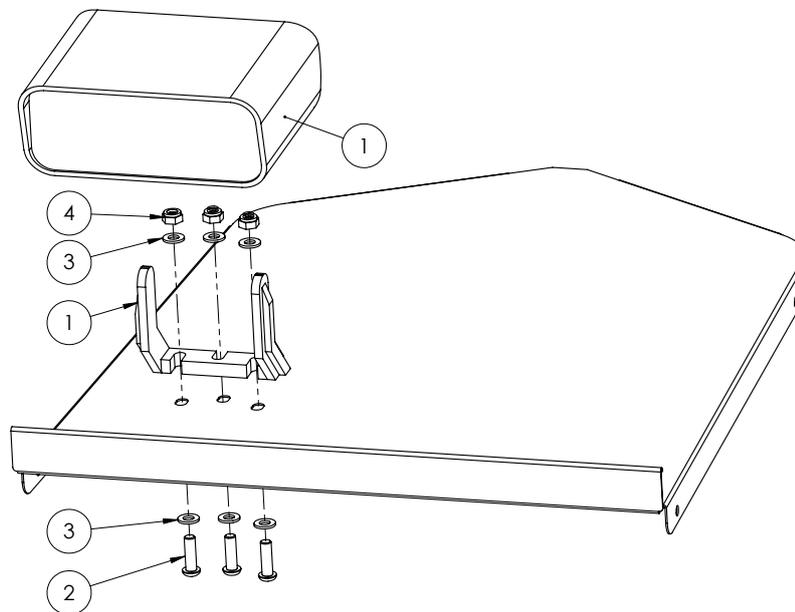
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523891	PH6 Flowmeter Mounting Plate	1
2	GA4523890	PH6 pump mount plate	1
3	GA4552070	crush tube 16.2x20.5x9.5	2
4	GA5068485	Flow serve SEM 10 flowmeter to suit PH6 pump	1
5	F70107A	18mt ram bracket	2
6	GA5000587	M12 WASHER	8
7	GA5011223	Bolt M12 x 200 ZP GR 8.8 ZP	4
8	GA5012461	M12 Nyloc nut Z/P	4
9	GA5012175	Narva Water Proof Switch Cover B/P	1
10	CPLG200	2 poly pipe coupling	1
11	RB200100	Poly Reducer Bushing 2 x 1	1
12	CPLG100	1" Poly Pipe Coupling	1
13	HB100-90	Hose barb 90 degree 1" Banjo	3
14	GA5016749	Switch toggle On/Off water proof	1
15	GA5068480	Flowservice PH6 Pump	1
16	SL200-90	Street Elbow 2"	1
17	SL100-90	Street Elbow 1" Poly	1
18	HBF100	Female Hose Barb 1"	1

## Fill Flow Meter



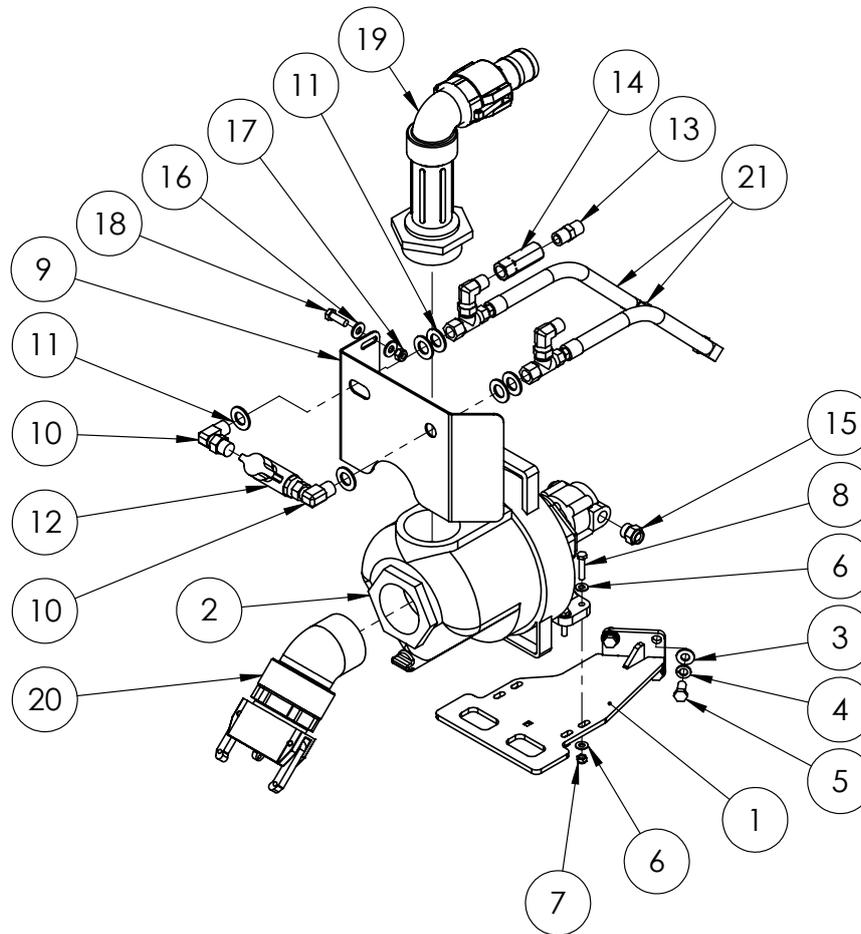
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	B344BEC-24-C	Electric shutoff valve 2 way 1" BSP	1
2	GA5009335	Gasket Kamlock Nitrile 1 1/2 Fit 150	2
3	M200BRB	2" Hose barb to flange	2
4	90-02316 Flow Meter	90-02316 TeeJet Flow Meter	1
4	FC200	200 Series Std Screw Clamp	2
5	GA5010191	2" Hose Clamp	8

## Fill Flow Meter Monitor



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	75-30013	Fill flow meter monitor	1
2	GA5004053	Bolt BHCS S'Steel M6x20	3
3	GA5004437	M6 SS Washer	6
4	GA5048115	M6 Nyloc Nut SS	3

# 3" Fill Pump

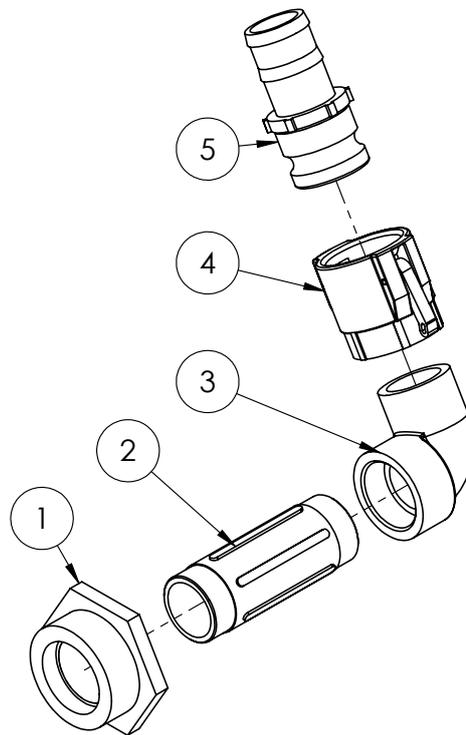


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658170	Fill pump mount frame 201 I	1
2	300PHYV	3" Banjo fill pump	1
3	GA5000587	M12 WASHER	4
4	GA5000575	M12 Spring washer SS	4
5	GA5000295	Set screw HT M12 x 25	4
6	GA5004883	Washer 8mm HD	8
7	GA5004917	M8 Nyloc Nut	4
8	GA5048655	M8x40 bolt	4
9	GA4523865	fill pump tap plate suit 3 inch pump	1
10	S77-0808	0808 90' Elbow	2
11	GA5001739	M20 Heavy Duty Flat Washer	6
12	GA5000835	Ball valve hydraulic 1/2" FF	1
13	S27-0808	0808 BSPTM BSPMT nipple	1
14	GA5007060	Check Valve (45 LPM) 1/2 BSPP zero bar	1
15	S93-0814	0.5inch BSPT male to 0.875 inch UN O ring male	2
16	GA5000117	Washer 10mm SS Heavy duty	4
17	GA5000141	M10 Nyloc Nut	2

Continued over page

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA5065455	Bolt Gr8.8 M10x30	2
19	GA4903149-3	3" Fill Pump Outlet	1
20	GA4903149-1	3" Fill Pump Inlet	1
21	GA4903149-2	Fill pump hyd hose assy	2
22	GA4903149-02	1/2" hyd hose cut 340mm T202-0808 and T205-0808	1

## 3" Fill Pump Outlet

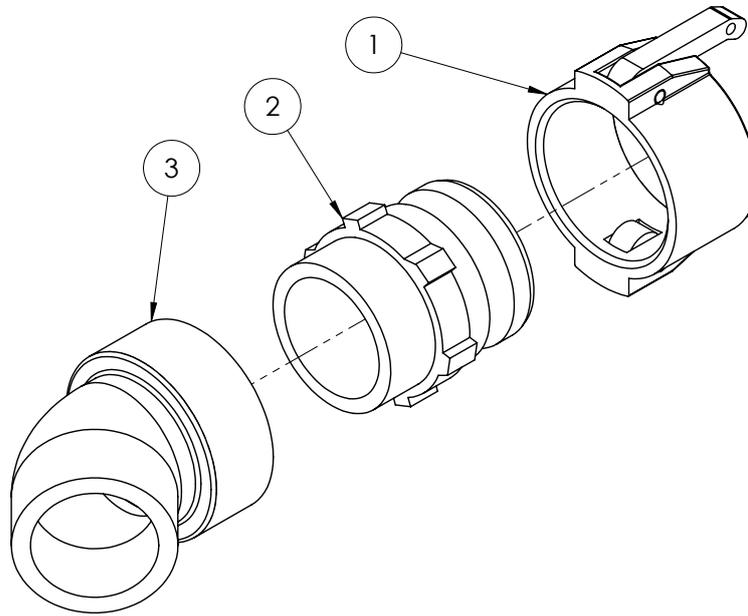


GA4903149-3 Fill Pump Outlet

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	RB300200	Poly Pipe Reducer Bush 3" x 2"	1
2	NIP200-6	2" X 6" Poly Nipple	1
3	SL200-90	Street Elbow 2"	1
4	200D	Cam lever coupling - 2" female coupler x 2" female thread	1
5	200E	Cam lever coupling - 2" male adapter x 2" hose shank	1

## 3" Fill Pump inlet

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GA4903149-1 Fill Pump Inlet

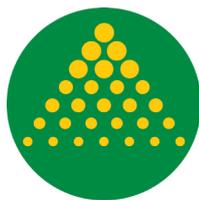
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	300CAP	3" Female Cam lock Cap	1
2	300F	Male Cam lock Adaptor 3 Male Thread	1
3	SL300-45	Street Elbow 3" 45 deg	1



# Terms and Conditions

- Interpretation
- In terms and conditions:
  - "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;
  - "Purchaser" means the purchaser of the Goods;
  - "Goods" means the products and, if any, the services sold or provided by Goldacres/Pathway to the Purchaser;
  - "GST Act" and "GST" are given the meanings referred to in a New Tax System (Goods and Services Tax) Act 1999.
  - "PPSA" means the Personal Property Securities Act 2009 (Cth) (as amended);
  - Nothing in these 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.
- General
- (1) The Goods and all other products or services provided by Goldacres/Pathway are provided subject to these terms and conditions. These terms and conditions and any terms and conditions incorporated herein by virtue of clause 3 hereto shall prevail over all other terms and conditions of the Purchaser or otherwise to the extent of any inconsistency.
  - These terms and conditions may not be modified or amended without the expressed written consent of Goldacres/Pathway endorsed by the Managing Director of Goldacres Trading P/L.
- Additional Terms and Conditions
- From time to time Goldacres/Pathway may provide additional or extended warranties in respect of certain goods and/or services. Where such additional or extended warranties are provided to a Purchaser in writing they will be incorporated into these terms and conditions provided that in the event of any inconsistency between these terms and conditions and the terms of any additional or extended warranty, the provisions of the additional or extended warranty shall prevail.
- Goldacres/Pathway quotations.
- Unless previously withdrawn, Goldacres/Pathway 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/Pathway reserves the right to refuse any order based on any quotation within 7 days of receipt of the order.
- Packing
- 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
- The Purchaser waives any claim for shortage of any Goods delivered if a claim in respect thereof has not been lodged with Goldacres/Pathway within (7) seven days from the date of receipt of the Goods by the Purchaser.
- Specifications, etc: Catalogues, etc: Quantities
- All specifications, (including but not limited to: 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 the 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 in the quotation.
- Performance, Capacities, Chemicals, Liquids, Application Methods, Environmental Effects
- 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 the sole discretion 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
- The delivery times and service times made known to the Purchaser are estimates only and Goldacres/Pathway shall not be liable for late delivery, non-delivery or delay and under no circumstances shall Goldacres/Pathway 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
- Goldacres/Pathway is not responsible for any loss or damage to Goods in transit. Goldacres/Pathway shall render the Purchaser such assistance as may be necessary to press claims on carriers provided that the Purchaser shall have notified Goldacres/Pathway 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
- (1) Goldacres/Pathway liability for Goods manufactured by it is limited to:
    - 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 (Cth) ("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;
    - in all other cases
      - 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:
        - the defects have arisen solely from faulty materials or workmanship;
        - the Goods have not received maltreatment inattention or interference;
        - accessories of any kind used by the Purchaser are manufactured or approved by Goldacres/Pathway;
        - where applicable, the seals on the Goods remain unbroken;
        - there has been no improper adjustment, calibration or operation;
        - the use of accessories including consumables, hardware or software (not manufactured by Goldacres/Pathway) has been approved in writing by Goldacres/Pathway;
        - no contamination or leakage has been caused or induced;
        - any modification to the Goods has been authorised in writing by Goldacres/Pathway;
        - there has been no inadequate or incorrect use, storage, handling or application of the Goods;
        - there has been no use or operation of the Goods outside of the physical, electrical or environmental specifications of the Goods;
        - there has been no inadequate or incorrect site preparations;
        - there has been no inadequate or improper maintenance of the Goods;
        - it has not been caused by fair wear and tear; and
        - 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
      - 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
      - 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 claim;
      - 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;
      - all warranty related repairs have been carried out with the prior authorisation of Goldacres/Pathway;
    - 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;
  - 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;
  - Goldacres will not accept liability for damage attributed to fair wear and tear including but not limited to fair wear and tear to nozzles, chains, belts, filters, brake pads, polyethylene bushes and liquid pump valves, valve O-rings, diaphragms and seals;
  - 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;
  - 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;
  - The benefit of any warranty provided under these terms and conditions shall only be available to the Purchaser and shall not be transferable by the Purchaser;
  - The warranties provided under these terms and conditions do not extend to second hand or used Goods that may be sold by Goldacres/Pathway.
- 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:
    - in the case of Goods, any one or more of the following:
      - the replacement of the Goods or the supply of equivalent Goods;
      - the repair of the Goods;
      - the payment of the cost of replacing the Goods or acquiring the equivalent Goods;
      - the payment of having the Goods repaired; or
    - in the case of services;
      - the supplying of the services again; or
      - the payment of the cost of having the services supplied again.
- Prices
- 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 or during currency of the contract shall be to the Purchaser's account.
  - 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
- (1) The purchase price in relation to the Goods and the cost of the services shall be payable without deduction and or set off and payment thereof shall be made on or before the thirtieth 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.
- 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, or of forgiveness of the debt incurred by the Purchaser.
  - Interest on overdue payments
  - If Goldacres/Pathway 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 right of money, together with interest shall be recoverable forthwith from the Purchaser.
- Rights in relation to Goods.
- (1) Title to the Goods supplied by Goldacres/Pathway to the Purchaser shall remain with Goldacres/Pathway until the total amount due in respect of the Goods and all monies owing to Goldacres/Pathway have been paid in full (the "Debts"). Risk in the Goods shall pass to the Purchaser upon delivery.
  - The Purchaser shall have the right to resell Goods but only as fiduciary agent and trustee for Goldacres/Pathway by way of bona fide sale at full market value and in the ordinary course of its business.
  - Until all the Debts have been paid in full:
    - the Purchaser shall take custody of the Goods as trustee, fiduciary agent and bailee for Goldacres/Pathway;
    - the Purchaser shall keep the Goods separate from any other goods and properly marked, stored, protected and insured;
    - the Purchaser must hold all of the money it receives ("Proceeds")
      - from the sale of any property into which Goods supplied have been incorporated; and
      - from the sale of Goods or provision of services including the Goods supplied by the Goldacres/Pathway as bailee, fiduciary agent and trustee for Goldacres/Pathway, but the Purchaser need not hold on trust any money exceeding the amount of the Debts at the time the money is received.
    - The Purchaser expressly acknowledges that it is bound by the fiduciary obligation created in the preceding paragraph and acknowledges that:
      - it must hold the Proceeds on trust for Goldacres/Pathway;
      - it must place the whole of the Proceeds in an account separate from its own moneys (the "Proceeds Account");
      - it must maintain the Proceeds Account separate from its own moneys at all times.
      - it must maintain proper records for the Proceeds Account.
      - it must not assign or encumber any book debts arising from sales made in circumstances set out in clauses 16(c)(i) and (ii) or do any other act in derogation of Goldacres/Pathway's legal or beneficial interests; and
      - it must account to Goldacres/Pathway on demand for all moneys standing to the credit of such account.
    - For the purposes of identification of different consignments of Goods purchased from Goldacres/Pathway and receipt of Proceeds, the Purchaser agrees that the principle of "Last In, First Out" shall be applied to any items that cannot be distinguished.
    - Goldacres/Pathway may trace the Proceeds in equity.
    - Goldacres/Pathway may at any time, without notice to the Purchaser and without prejudice to any other rights which it may have against the Purchaser, terminate any contract connected with the Goods and the bailment referred to in clause 16(3) and enter upon any premises owned or occupied by the Purchaser where Goldacres/Pathway reasonably believes the Goods may be stored, and repossess the Goods without liability for any damage caused, and subsequently dispose of the Goods at Goldacres/Pathway's discretion if:
      - the Debts are not paid in accordance with these terms and conditions or any other contract or arrangement between Goldacres/Pathway and the Purchaser; or
      - Goldacres/Pathway receives notice of or reasonably believes that:
        - a third person may attempt to levy execution against the Goods; or
        - the Purchaser is insolvent (within the meaning of the Corporations Act 2001) or bankrupt; or
        - the Purchaser has entered into any arrangement or composition with its creditors, gone into liquidation, or has appointed a receiver, a receiver and manager or administrator.
      - If after repossession under clause 16(4) Goldacres/Pathway sells the Goods, Goldacres/Pathway shall account to the Purchaser for any proceeds of sale (less expenses of repossession and sale) that exceeds the amount of the outstanding Debts.
      - If any Goods belonging to Goldacres/Pathway are disposed of by the Purchaser or an insurance claim is made in respect of them, Goldacres/Pathway shall be entitled to trace the sale or insurance proceeds, which proceeds shall be held by the Purchaser in a separate bank account on trust for Goldacres/Pathway.
      - The Purchaser agrees and acknowledges that in the event it sells Goods to a third party on account, it will include in its terms and conditions of sale a provision under which the Purchaser retains title to the Goods until such time that the total amount due in respect of the Goods and all monies owing to the Purchaser have been paid in full by that third party debtor. The Purchaser also agrees and acknowledges that in these instances, it will register its PMSI in accordance with the PPSA in respect of its security interest in the Goods.
- PPSA provisions
- (1) The Purchaser acknowledges that these terms and conditions constitute a security agreement for the purposes of section 20 of the PPSA and that a security interest exists in all Goods (and any associated Proceeds from their sale) previously supplied by Goldacres/Pathway to the Purchaser (if any) and in all future Goods (and any associated Proceeds from their sale) that may be supplied to the Purchaser by Goldacres/Pathway.
  - The Purchaser acknowledges that Goldacres/Pathway has a first ranking purchase money security interest ("PMSI") (as defined in section 14 of the PPSA) in the Goods and the Purchaser must not jeopardise such ranking (whether by act or omission).
  - The Purchaser acknowledges that it has received value as at the date of first delivery of the Goods and has not agreed to postpone the time for attachment of the security interest (as defined in the PPSA) granted to Goldacres/Pathway under these terms and conditions.
  - The Purchaser will execute documents and do such further acts as may be required by Goldacres/Pathway to register the security interest granted to Goldacres/Pathway under these terms and conditions under the PPSA.
  - Until ownership of the Goods passes, the Purchaser must not give to Goldacres/Pathway a written demand or allow any other person to give Goldacres/Pathway a written demand requiring Goldacres/Pathway to register a financing charge statement under the PPSA in respect of Goldacres/Pathway's interest in the Goods.
  - The Purchaser must indemnify Goldacres/Pathway and on demand reimburse Goldacres/Pathway for all costs and expenses incurred by Goldacres/Pathway in respect of these terms and conditions including but not limited to Goldacres/Pathway registering its security interest in the Goods, lodging, discharging or amending any financing statement or financing charge statement, or otherwise complying with the PPSA.
  - The Purchaser agrees (other than as provided in these terms and conditions) not to sell, lease, mortgage, deal with, dispose of or create or attempt to create any other security interest in or affecting the Goods unless and until the Purchaser's Debts have been satisfied.
  - The Purchaser waives its rights under the following provisions of Chapter 4 of the PPSA:
    - to receive a notice on enforcement action against liquid assets (section 121(4));
    - to receive a notice to seize collateral (section 123);
    - to receive a notice of disposal of Goods by Goldacres/Pathway purchasing the Goods (section 129);
    - to receive a notice to dispose of Goods (section 130);
    - to receive a statement of account following disposal of Goods (section 132(2));
    - to receive a statement of account if no disposal of Goods for each 6 month period (section 132(4));
    - to receive notice of any proposal of Goldacres/Pathway to retain Goods (section 135(2));
    - to object to any proposal of Goldacres/Pathway to either retain or dispose of Goods (section 137(2));
    - to redeem the Goods (section 142);
    - to reinstate the security agreement (section 143);
    - to receive a notice of any verification statement (section 157(1) and section 157(3));
  - The rights Goldacres/Pathway may have under the PPSA are supplementary and in addition to those set out in these terms and conditions and do not derogate from the rights and remedies of Goldacres/Pathway under these terms and conditions or under any other statute or under general law.
  - The Purchaser must give 10 business days prior written notice of any proposed change in the Purchaser's name or other identifying characteristics and details.
- Purchasers property
- Any property of the Purchaser under Goldacres/Pathway's custody or control shall be entirely at the Purchaser's risk as regards loss or damage caused to the property or by it.
- Storage
- Goldacres/Pathway 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/Pathway for such information.
- Returned Goods
- Goldacres/Pathway 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
- All Goods to be supplied by Goldacres/Pathway shall be described on the purchase order agreed by Goldacres/Pathway and the 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
- No order may be cancelled except with the consent in writing and on terms, which will indemnify Goldacres/Pathway against all losses.
- No waiver
- The failure of any party to enforce the provisions of these terms and conditions or to exercise any rights expressed in these terms and conditions 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
- If by reason of any fact, circumstance, matter or thing beyond the reasonable control of Goldacres/Pathway is unable to perform in whole or in part any obligation under these terms and conditions then Goldacres/Pathway shall be relieved of that obligation under these terms and conditions 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
- 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
- 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
- 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
- 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/Pathway to the courts of such State and any court competent to hear appeals therefrom.





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