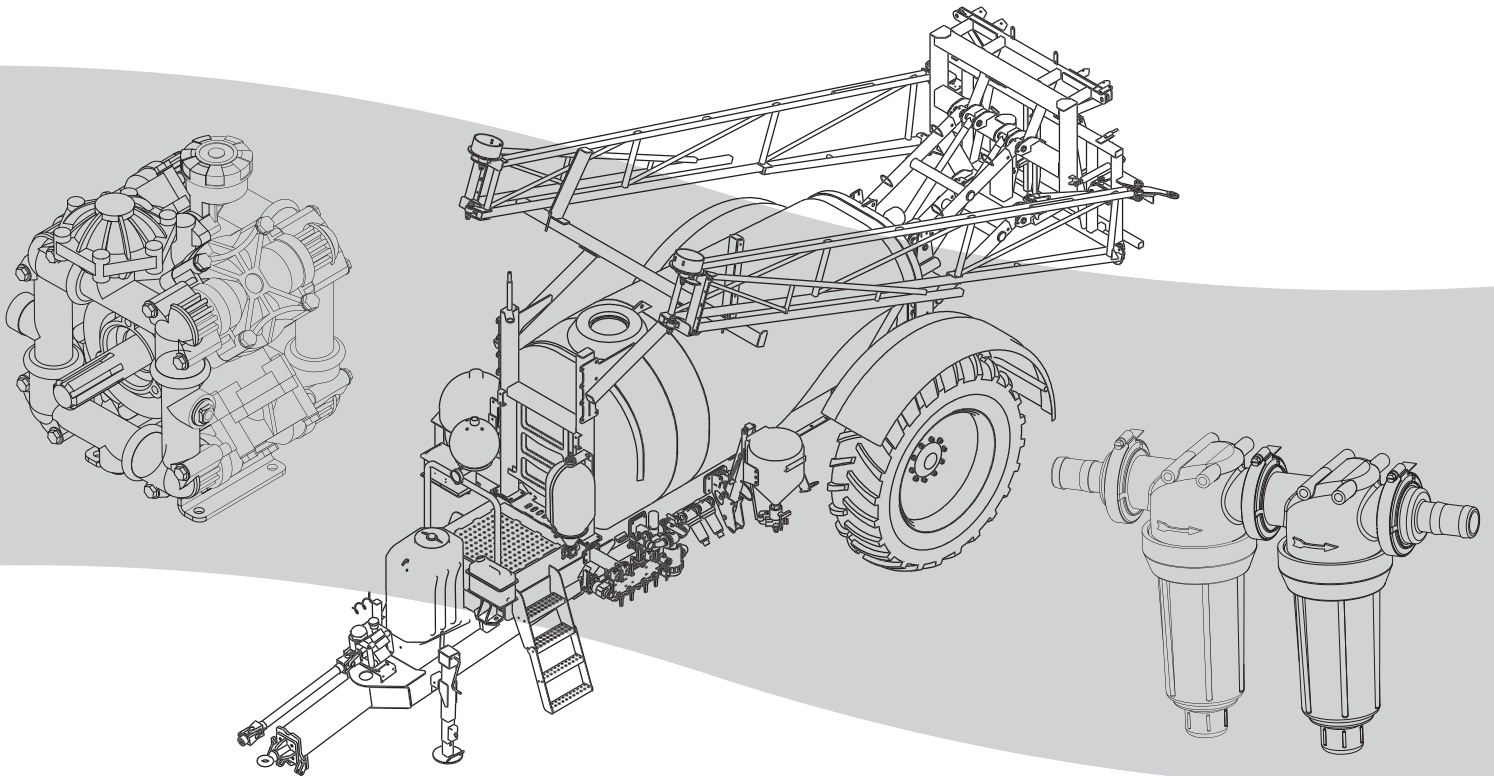


**GOLDACRES**  
CHANGE THE WAY YOU SPRAY



Special EF 3000  
**PARTS MANUAL**



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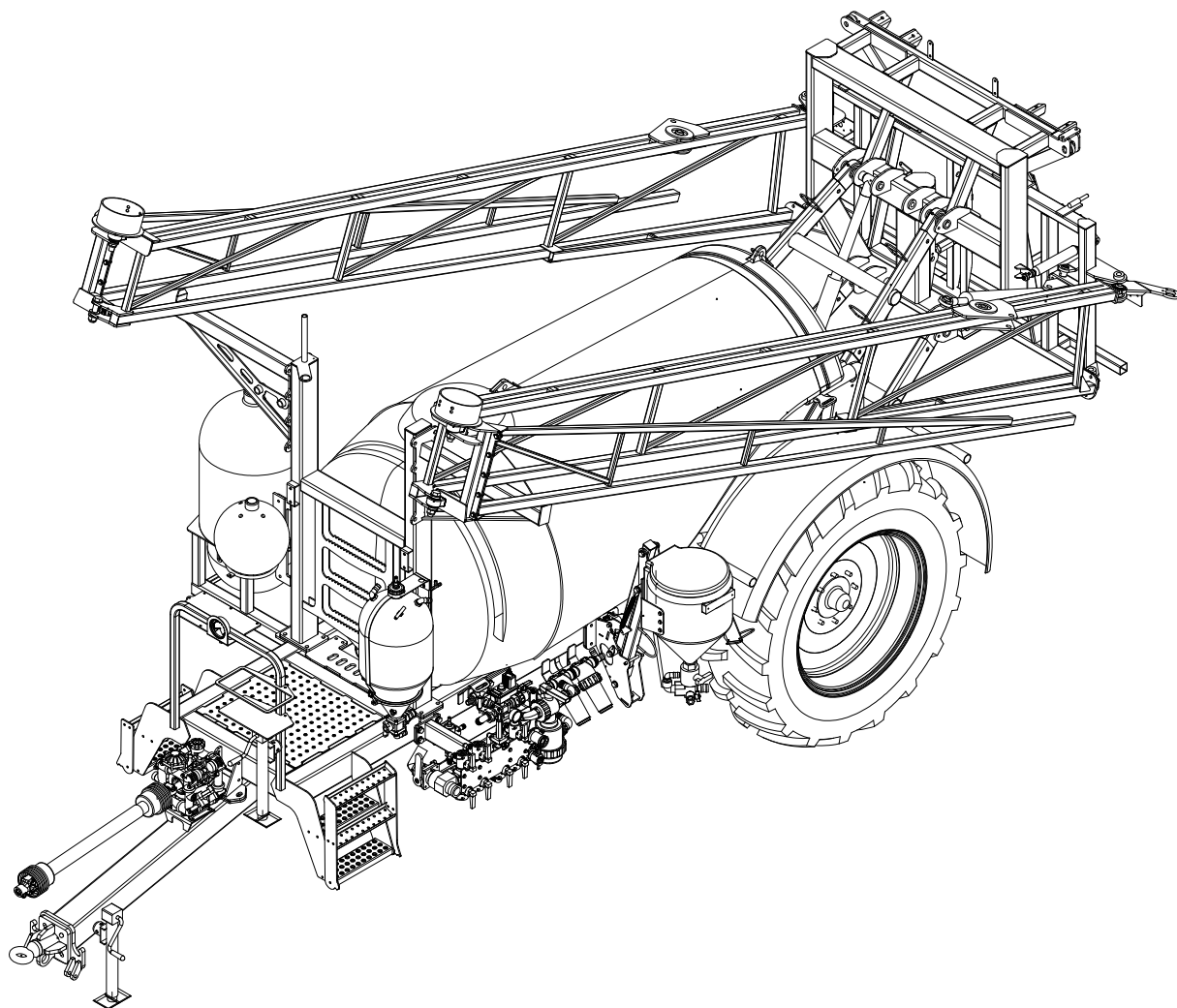
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8 September 2008

## GOLDACRES/PATHWAY TERMS AND CONDITIONS OF SALE

Goldacres/Pathway Goods are only available for purchase upon the terms and conditions set out below.

### Interpretation

1. In these warranty terms and conditions:
  - (1) **"Goldacres"** or **"Pathway"** means Goldacres Trading Pty. Ltd. A.C.N. 061 306 732 of 1-3 North Western Rd., St. Arnaud; trading as Goldacres Agricultural Equipment (its successors and assigns) which is the seller of the Goods;
  - (2) **"Purchaser"** means the purchaser of the Goods;
  - (3) **"Goods"** means the product and, if any, the services provided;
  - (4) Nothing in these warranty terms and conditions shall be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying, any condition, warranty, guarantee, right or remedy implied by law (including the Trade Practices Act 1974) and which by law cannot be excluded, restricted or modified.

### General

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

### Warranty Terms

3. The warranty relating to the Goods and all other products sold and, if any, services sold or provided by Goldacres/Pathway are contained in these warranty terms and conditions, and additional terms and conditions as described by the documents "Pathway Forklifts warranty terms and conditions" or "Pathway Pumps warranty terms and conditions".

### Specifications, etc: Catalogues, etc: Quantities

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

### Performance, Capacities, Chemicals, Liquids, Application Methods, Environmental Effects

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

### Limit of Liability

6. (1) Goldacres/Pathway liability for Goods manufactured by it is limited to making good any defects by repairing the same or at Goldacres/Pathway option by replacement within a period not exceeding either 1000 hours or twelve calendar months, whichever comes first, after the Goods have been dispatched provided that:
    - (a) the defects have arisen solely from faulty materials or workmanship;
    - (b) the Goods have not received maltreatment inattention or interference;
    - (c) accessories of any kind used by the purchaser are manufactured or approved by Goldacres/Pathway;
    - (d) **where applicable, the seals on the Goods remain unbroken;**
    - (e) there has been no improper adjustment, calibration or operation;
    - (f) the use of accessories including consumables, hardware or software (not manufactured by Goldacres/Pathway) has been approved in writing by Goldacres/Pathway;
    - (g) no contamination or leakage has been caused or induced;
    - (h) any modification to the Goods have been authorised in writing by Goldacres/Pathway;
    - (i) there has been no inadequate or incorrect use, storage, handling or application of the Goods;
    - (j) there has been no use or operation of the Goods outside of the physical, electrical or environmental specifications of the Goods;
    - (k) there has been no inadequate or incorrect site preparations;
    - (l) there has been no inadequate or improper maintenance of the Goods;
    - (m) it has not been caused by fair wear and tear; and
    - (n) firstly the Goods have been thoroughly inspected and any damage (from whatever cause) to the Goods (and in particular – the structure, welding, seams, bolts, booms) has been repaired prior to the Goods being operated, used driven or moved and on each occasion the tanks are filled; and
    - (o) there has been no failure to comply with the requirements of all present or future laws or regulations relating to the Goods and/or the use and/or the operation of the Goods; and
    - (p) there has been no failure to maintain a record of hours of operation (which record shall contain full details of all inspections, repairs and maintenance) and produce same to Goldacres/Pathway at the time of the warranty claim;
    - (q) the defective Goods or any damaged part of the Goods are promptly returned free of cost to Goldacres/Pathway or a representative of Goldacres/Pathway;
    - (r) all warranty related repairs have been carried out with the prior authorisation of Goldacres/Pathway;
  - (2) **if Goods or any part thereof are not manufactured by Goldacres/Pathway, in particular engines, engine accessories, transmissions, transfer cases, differentials, tyres, tubes, batteries and radios and UHF's, 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;**
  - (3) **in the case of hydraulic systems, Goldacres/Pathway shall replace defective parts in accordance with section 6(1) of these conditions, provided that the failure of the part was not related to contamination within the system, Goldacres/Pathway shall not be liable for labour in the case of repairing hydraulic system defects;**
  - (4) **this warranty does not extend to components considered as normal wear items including, but not limited to nozzles, chains, belts, filters, brake pads, polyethylene bushes and liquid pump valves, valve O-rings, diaphragms and seals;**
  - (5) **Goldacres/Pathway shall not be liable for and the purchaser releases Goldacres/Pathway from any claims in respect of faulty or defective design of any Goods supplied unless such a design has been wholly prepared by Goldacres/Pathway and the responsibility for any claim has been specifically accepted by Goldacres/Pathway in writing and in any event Goldacres/Pathway liability hereunder shall be strictly limited to the replacement of defective parts in accordance with paragraph 6 (1) of these conditions;**
  - (6) except as provided herein, all express and implied warranties, guarantees and conditions under statute or general law as to the merchantability, description, quality, suitability or fitness of the Goods for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded and Goldacres/Pathway shall not be liable for physical or financial injury, loss or damage or for consequential loss or damage of any kind arising out of the supply, layout, assembly, installation or operation of the Goods or arising out of Goldacres/Pathway negligence or in any other way whatsoever;
  - (7) **this warranty shall only be available to the Purchaser and shall not be transferable by the Purchaser;**
  - (8) **this warranty in no way extends to any used Goods.**
7. Goldacres/Pathway liability for a breach of condition or warranty implied by Div. 2 of Pt. 5 of the Trade Practices Act 1974 (other than s 69) is hereby limited to:
    - (1) **in the case of Goods, any one or more of the following:**
      - (a) the replacement of the Goods or the supply of equivalent Goods;
      - (b) the repair of the Goods;
      - (c) the payment of the cost of replacing the Goods or acquiring the equivalent Goods;
      - (d) the payment of having the Goods repaired; or
    - (2) **in the case of services;**
      - (a) the supplying of the services again; or
      - (b) the payment of the cost of having the services supplied again.
  8. Goldacres/Pathway liability under s 68A and s 74H of the Trade Practices Act 1974 is expressly limited to a liability to pay to the purchaser an amount equal to:
    - (1) the cost of replacing the Goods;
    - (2) the cost of obtaining the equivalent Goods; or
    - (3) the cost of having the Goods repaired, whichever is the lowest amount.

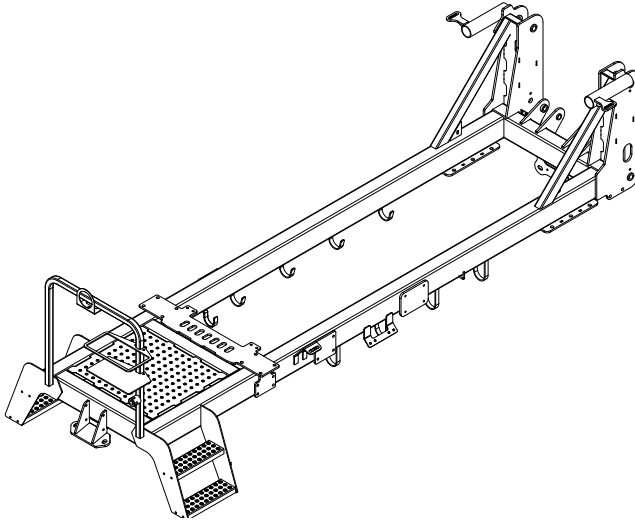
## CURRENT PART MANUAL REVISION

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Chapter	Current Revision	Revision Date
Introduction	00	15/3/10
1 - Chassis	00	15/3/10
2 - Pumps	00	15/3/10
3 - Flush Tank	00	15/3/10
5 - Liquid Controls	00	15/3/10
8 - Induction Hopper	00	15/3/10
9 - Foam Marker	00	15/3/10
10 - Transcal	00	15/3/10
11 - Main Tank	00	15/3/10
12 - Wheels, Axles & Mudguards	00	15/3/10
13 - Boom Centre	00	15/3/10
14 - Boom Wing	00	15/3/10
15 - Electrics	00	15/3/10
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18 - Hydraulics	00	15/3/10
19 - Filtration & Hose	00	15/3/10

# CHAPTER I

## CHASSIS

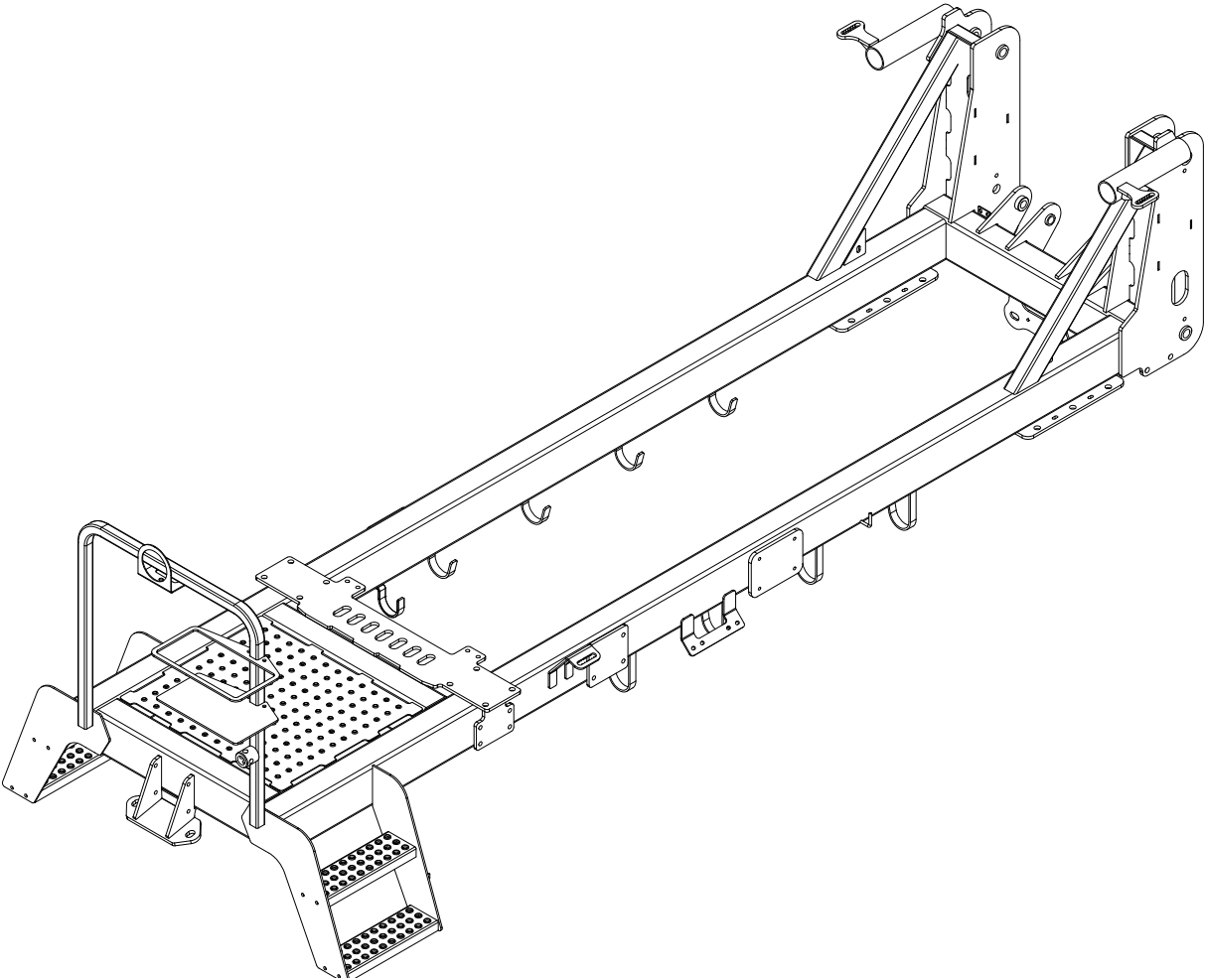


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# CHASSIS

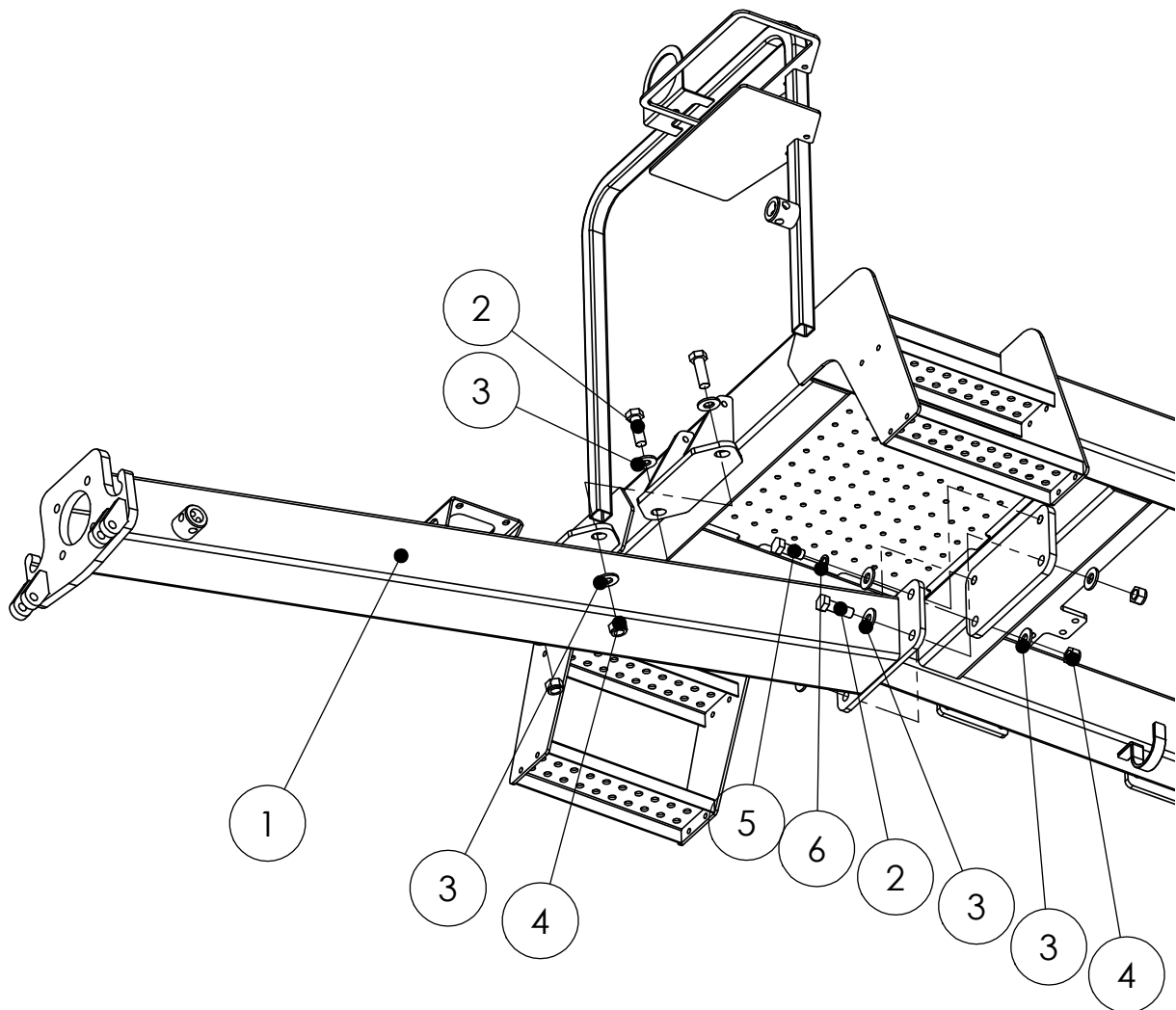
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Part No	Description
GA4657800	3000L EF Chassis

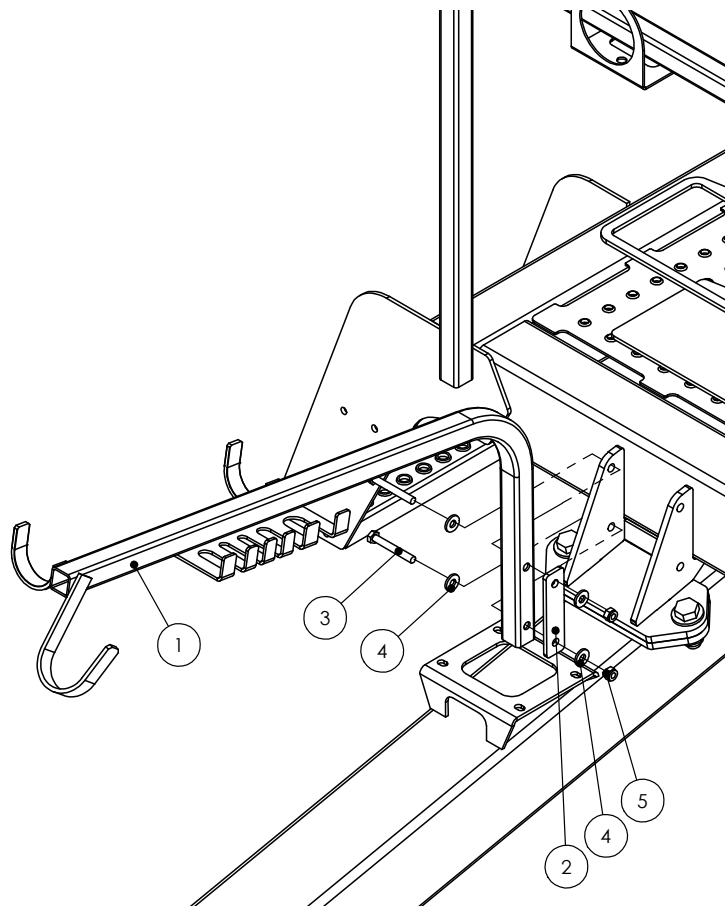


## PULL



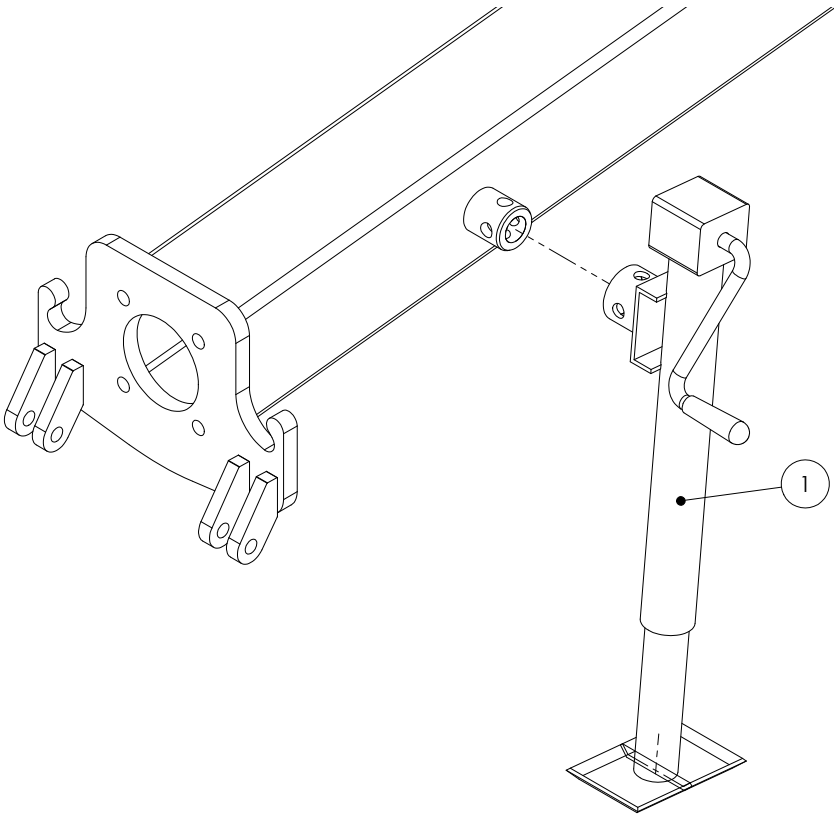
Item	Part No	Description	Quantity
1	GA4657805	Pull	1
2	GA5011333	M20 x 60mm Bolt	4
3	GA5001741	20mm Washer	10
4	GA5012467	M20 Nyloc Nut	4
5	GA5011315	M20 x 20mm Bolt	2
6	GA5001721	20mm Spring Washer	2

## HOSE SUPPORT



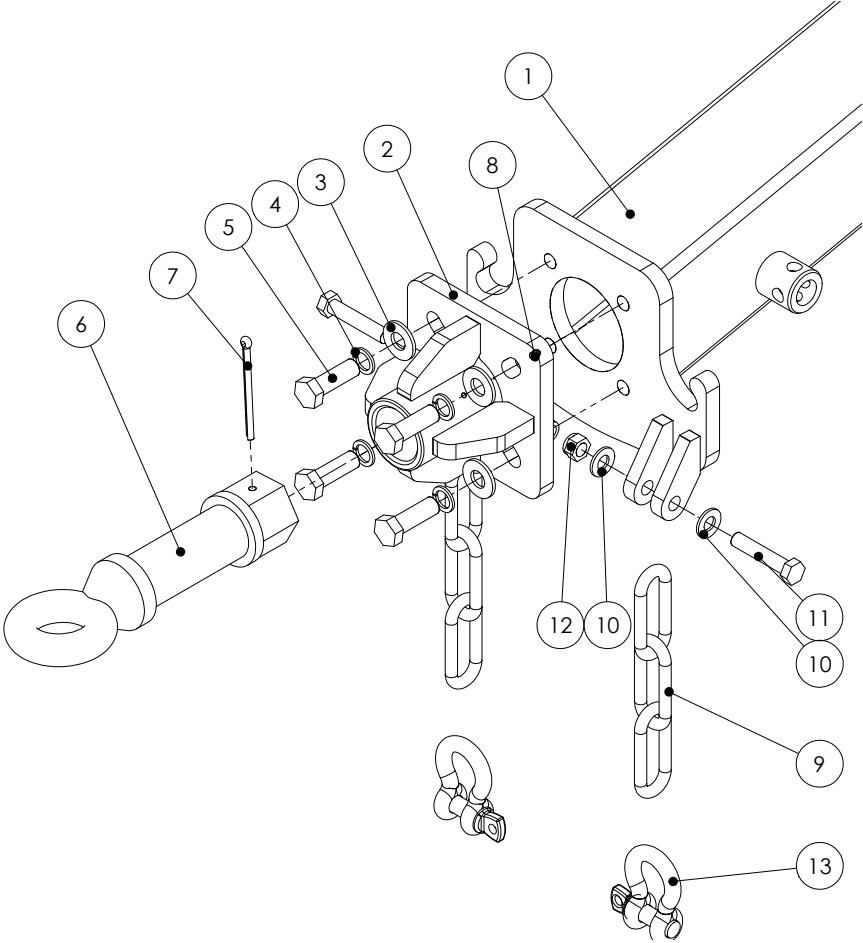
Item	Part No	Description	Quantity
1	GA4657666	Bolt on Hose Holder	1
2	GA4522926	Hose Holder Backing Plate	1
3	GA5006085	M10 x 75mm Bolt	2
4	GA5000141	M10 Nyloc Nut	2
5	GA5000117	10mm Washer	4

# JACK



Item	Part No	Description	Quantity
1	GA5015213	Jack with chain & pin	1

SWIVEL TOWEYE

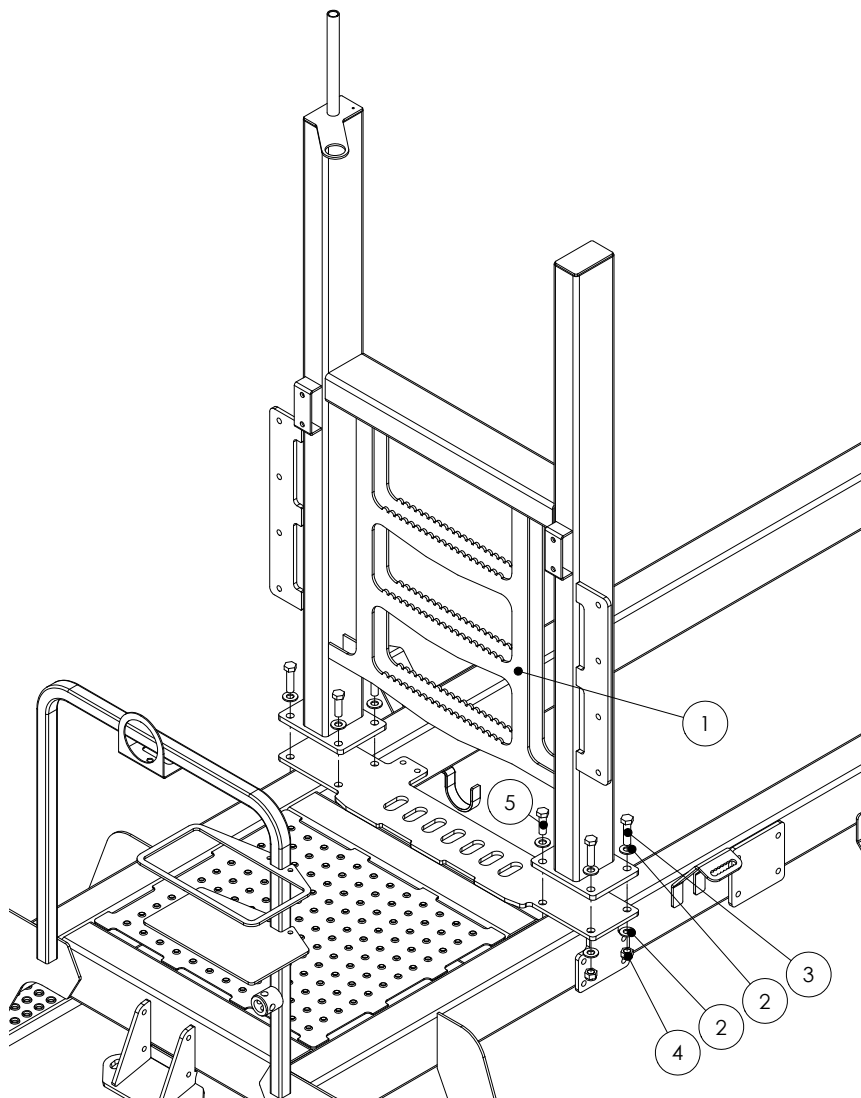


Item	Part No	Description	Quantity
1	GA4657805	Pull	1
2	GA4652485	Swivel Toweye Housing	1
3	GA5001741	20mm Washer	4
4	GA5001721	20mm Spring Washer	4
5	GA5011333	M20 x 60mm Bolt	4
6	GA5016243	Toweye with Nut & Washer	1
7	GA5051385	M8 x 125mm Split Pin	1

Item	Part No	Description	Quantity
8	GA5050450	6mm Grease Nipple	1
9	GA5065030	Safety Chain (11 Links)	2
10	GA5001043	16mm Washer	4
11	GA5011307	M16 x 80mm Bolt	2
12	GA5001029	M16 Nyloc Nut	2
13	GA5000667	Bow Shackle	2

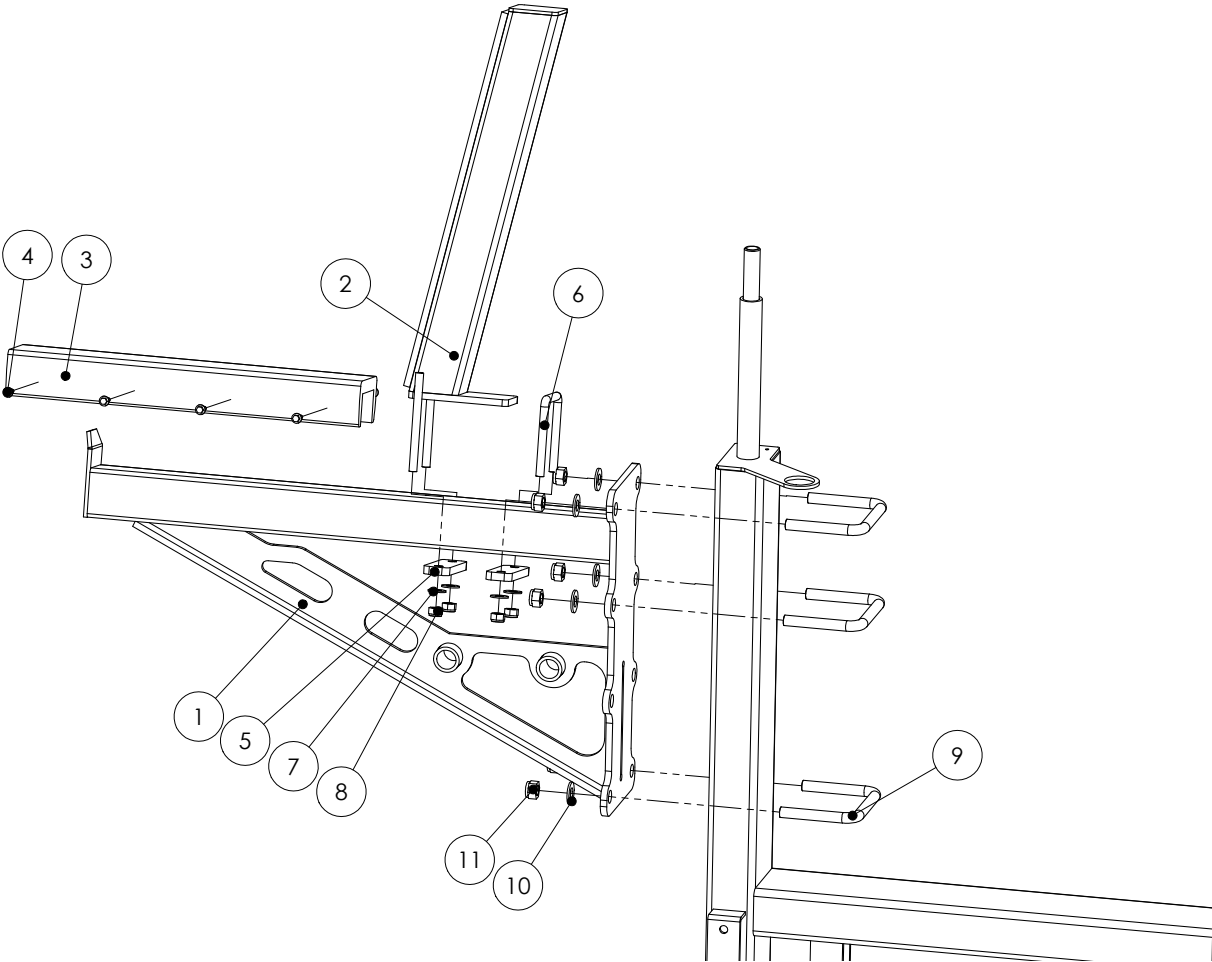
Note: Inserts available for Toweye: 1 1/4" Toweye Bush (Plastic) Part No: GA4582455  
35mm Toweye Bush (Steel) Part No: GA5075075

## H-FRAME



Item	Part No	Description	Quantity
1	GA4654180	H-Frame	1
2	GA5001043	16mm Washer	16
3	GA5000941	M16 x 60mm Bolt	4
4	GA5001029	M16 Nyloc Nut	8
5	GA5000931	M16 x 50mm Bolt	4

BOOM RESTS

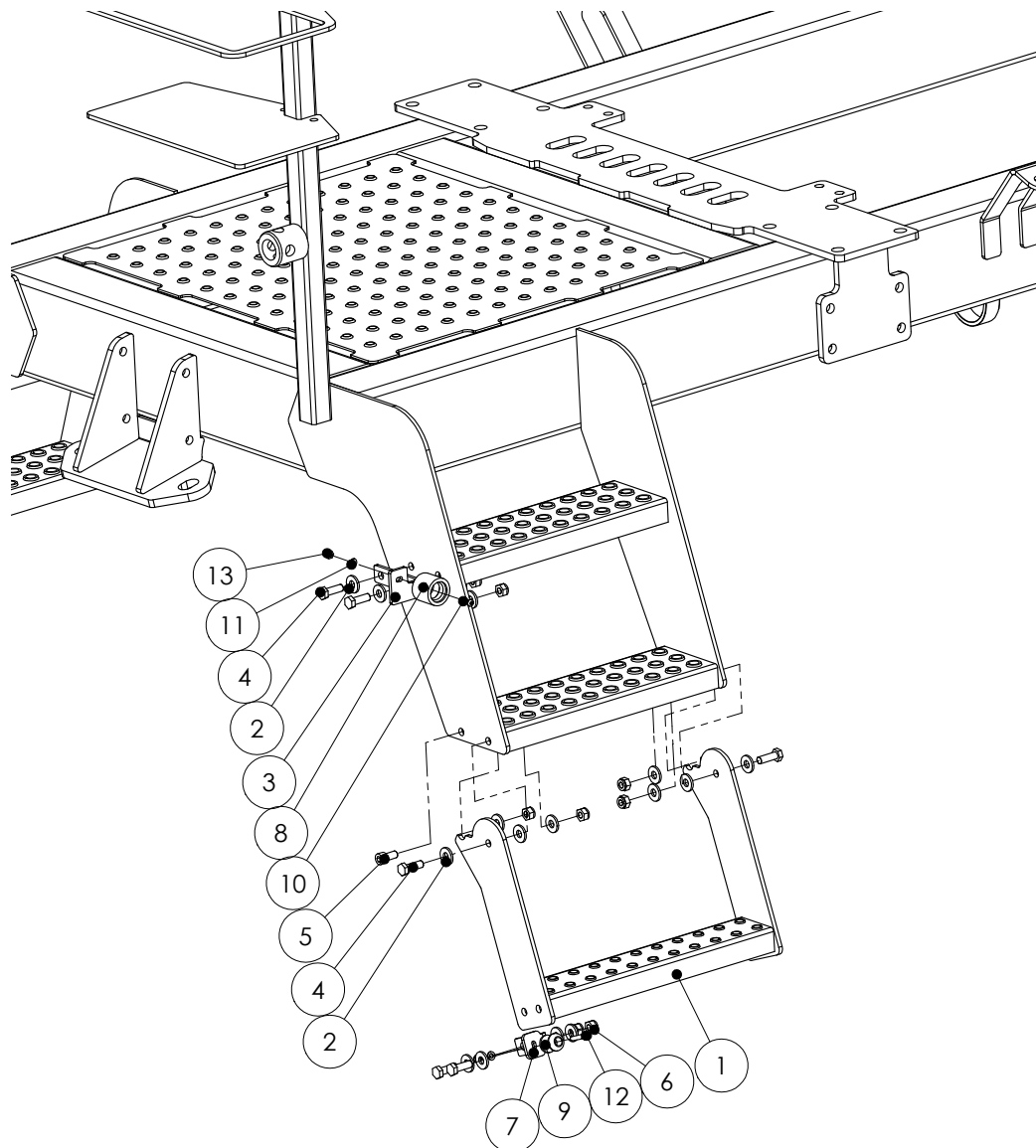


Item	Part No	Description	Quantity
1	GA4654200	Right Boom Rest	1
1	GA4654205	Left Boom Rest	1
2	GA4903051	Pre-Assembled Boom Rest	
		Upright	2
3	GA5014617	Boom Rest Rubber (350mm)	2
4	GA5000707	Tex Screw	16
5	F70107A	Upright Retainer Plate	4

Item	Part No	Description	Quantity
6	GA5011259	M12 x 76mm x 110mm U Bolt	2
7	GA5000577	12mm Washer	8
8	GA5012461	M12 Nyloc Nut	8
9	GA5011277	M16x127mmx110mm U Bolt	6
10	GA5001043	16mm Washer	12
11	GA5001029	M16 Nyloc Nut	12

Note: Quantities are for both sides  
\* Plastic strip available seperately Part No: GA5066630

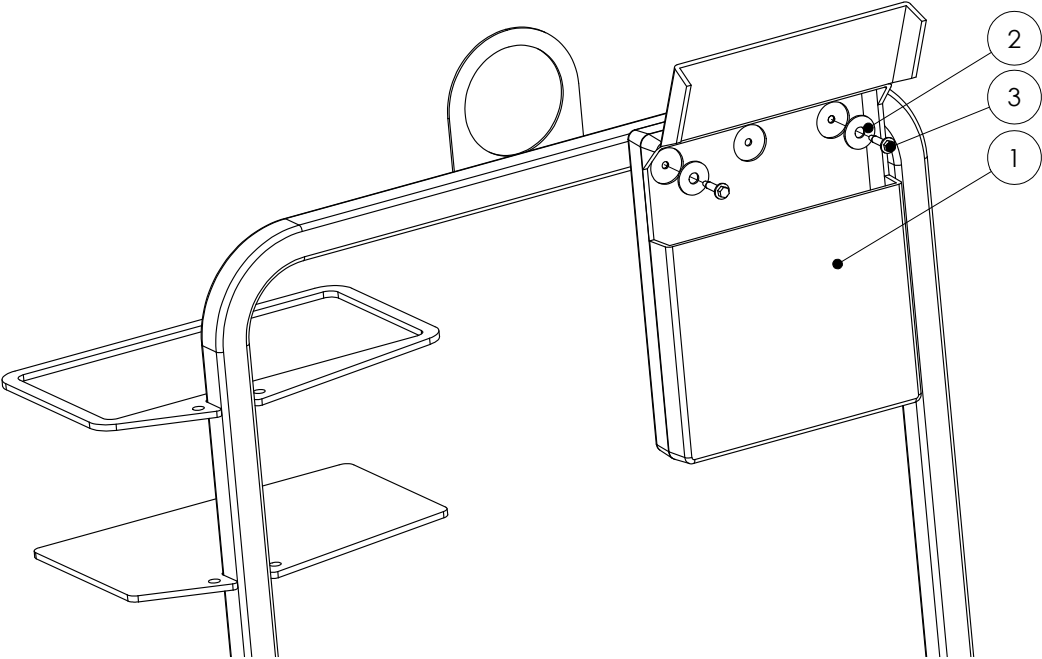
## STEPS



Item	Part No	Description	Quantity
1	GA4657810	Single Lower Step	2
2	GA5000139	10mm Washer	32
3	F70654A	Left Step Upper Catch Plate	1
3	F70684A	Right Step Upper Catch Plate	1
4	GA5065455	M10 x 30mm Bolt	4
5	GA5011153	M10 x 20mm Cap Screw	4
6	GA5000141	M10 Nyloc Nut	8
7	GA4522617	Lower Catch Plate	2

Item	Part No	Description	Quantity
8	GA5008629	Female Step Catch	2
9	GA5011607	Male Step Catch	2
10	GA5004053	M6 x 20mm Button Head	2
		Cap Screw	2
11	GA5004349	6mm Washer	4
12	GA5004079	M6 x 30mm Bolt	2
13	GA5048115	M6 Nyloc Nut	4

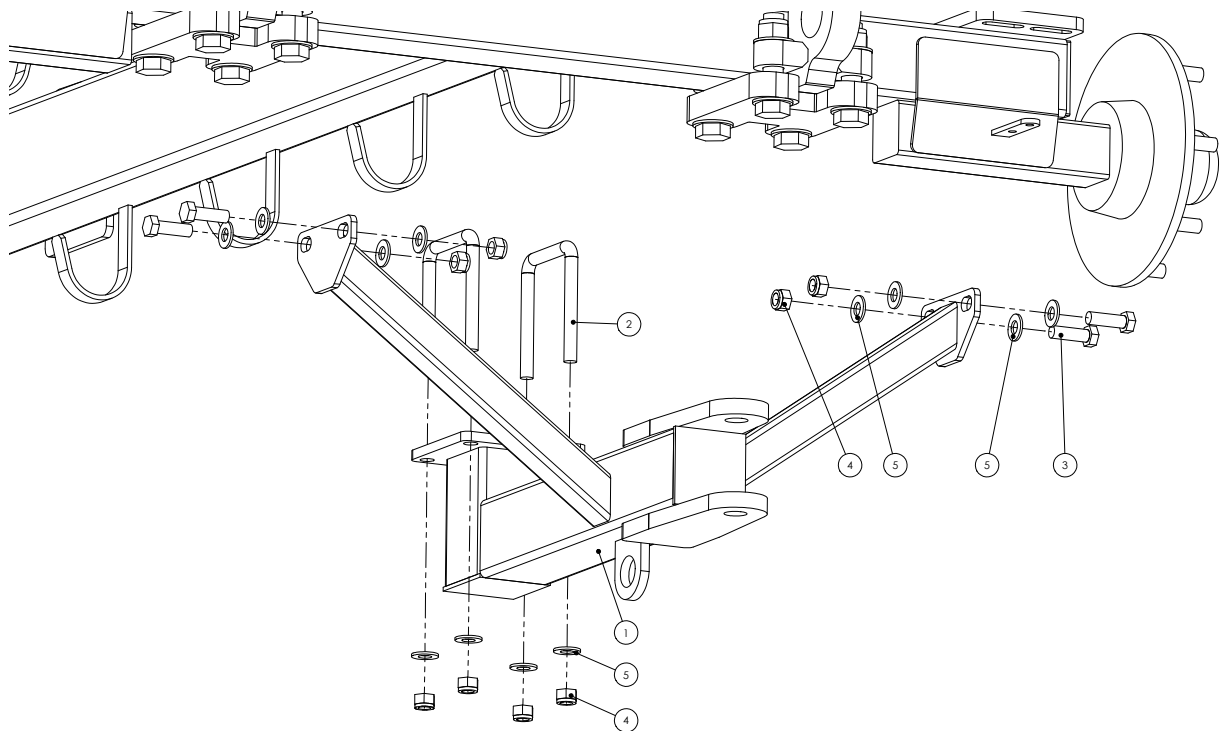
# MANUAL HOLDER



Item	Part No	Description	Quantity
1	GA5049630	Plastic Manual Holder	1
2	GA5003645	Washer	2
3	GA5000707	Tek Screw	2



## TOWBAR

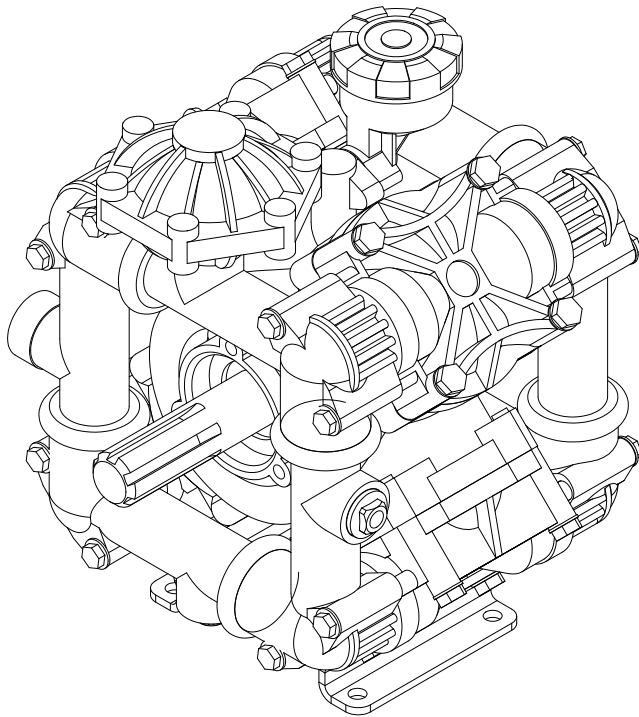


Item	Part No	Description	Quantity
1	GA4657860	Towbar	1
2	GA5011271	M16x102mmx185mm U Bolt	2
3	GA5000931	M16 x 50mm Bolt	4
4	GA5001029	M16 Nyloc Nut	8
5	GA5001043	16mm Washer	12



# CHAPTER 2

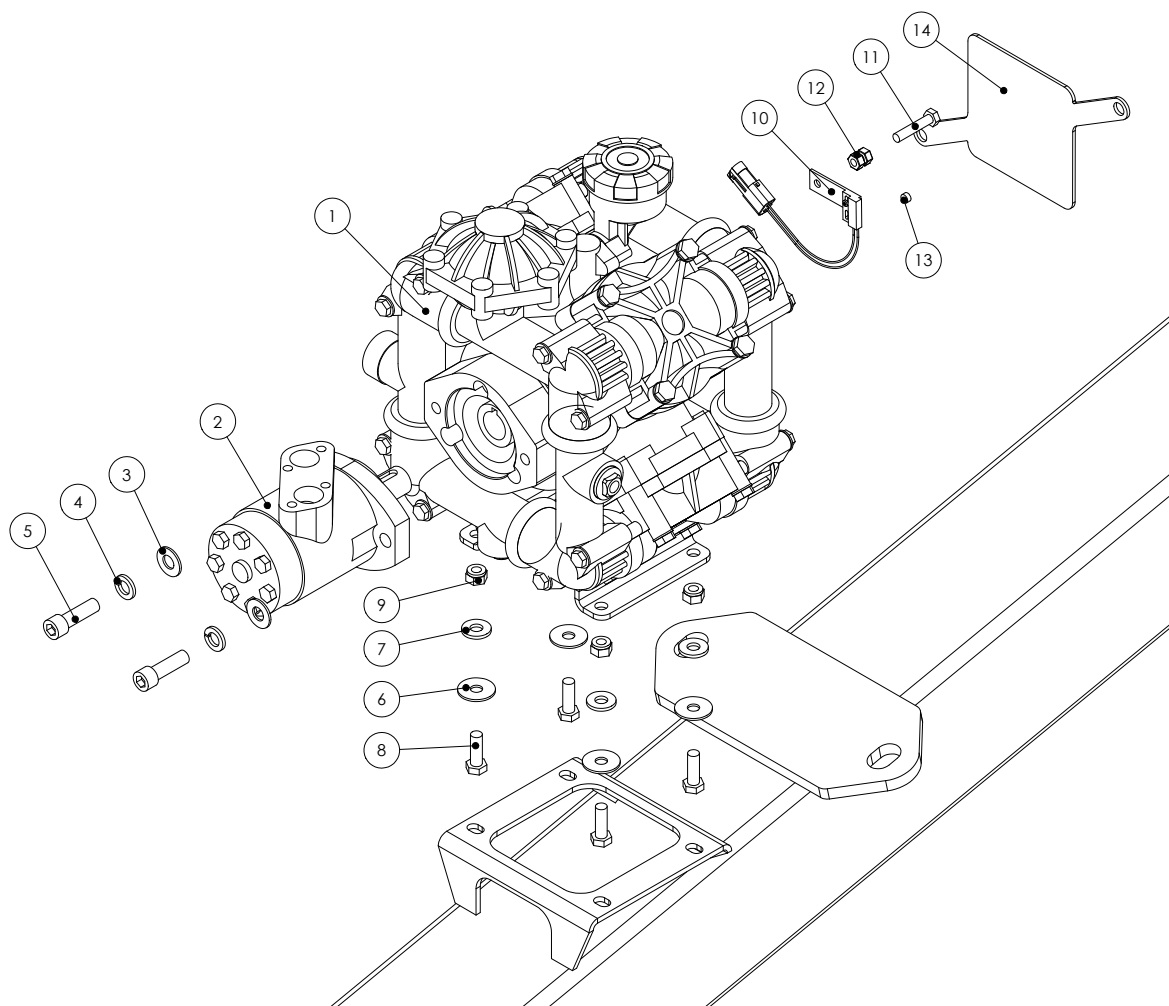
## PUMPS



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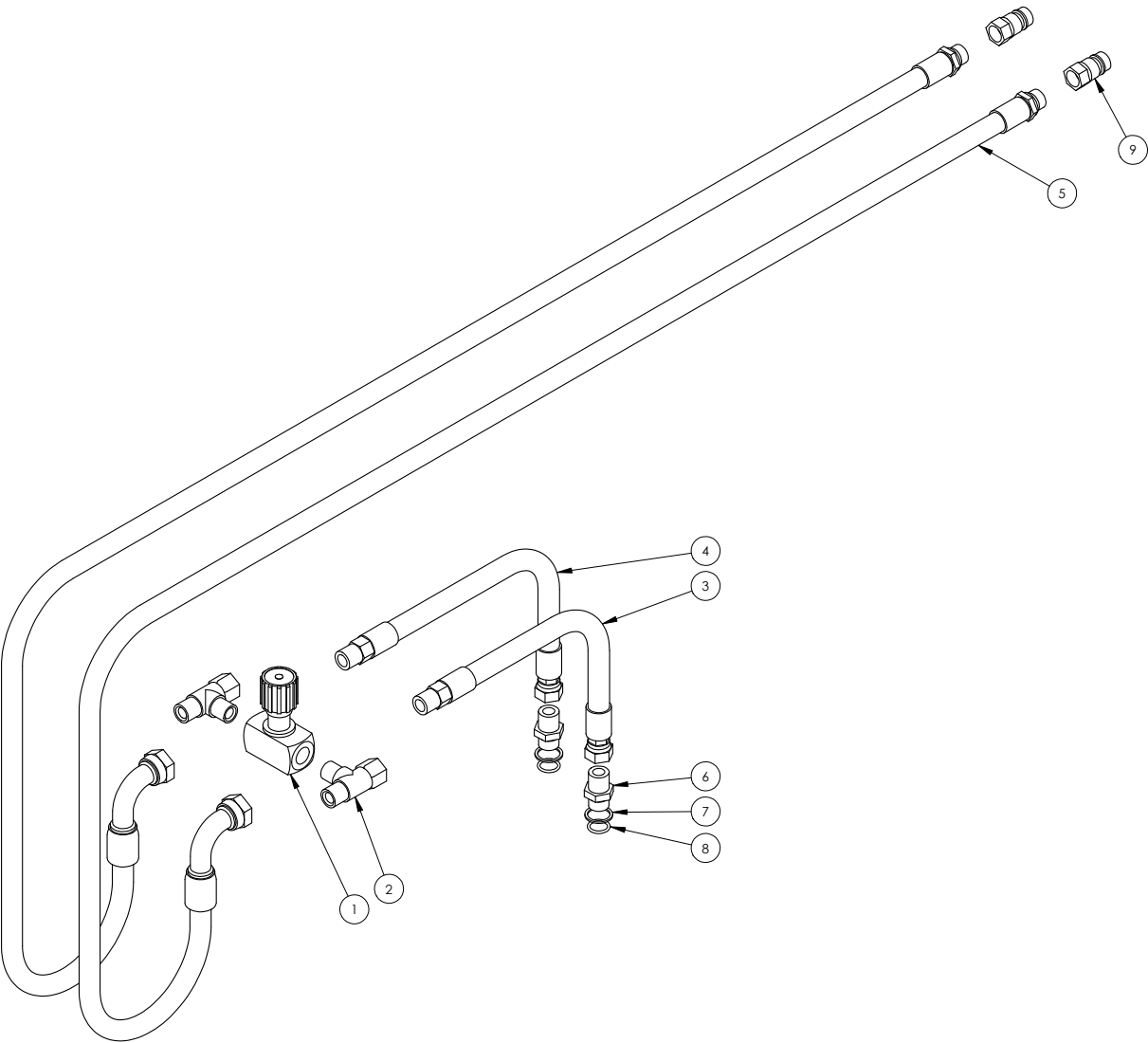
## HYDRAULIC DRIVE PUMPS



Item	Part No	Description	Quantity
1	RO160MI	160l/min Pump (Hydraulic Drive)	1
2	GA5047515	Hydraulic Motor 80cc	1
3	GA5000577	12mm Washer	2
4	GA5000575	12mm Spring Washer	2
5	GA5006141	M12 x 40mm Cap Screw	2
6	GA5002627	3/8" x 27mm x 3mm Washer	4
7	GA5000139	10mm Washer	4

Item	Part No	Description	Quantity
8	GA5065455	M10 x 30mm Bolt	4
9	GA5000141	M10 Nyloc Nut	4
10	1170171293	RPM Sensor	1
11	GA5048655	M8 x 40mm Bolt	1
12	GA5011499	M8 Plain Nut	2
13	GA5016169	Super Magnet	1
14	PUMPCOVER	Pump Cover for 160L Pump	1

# HYDRAULIC HOSE KIT

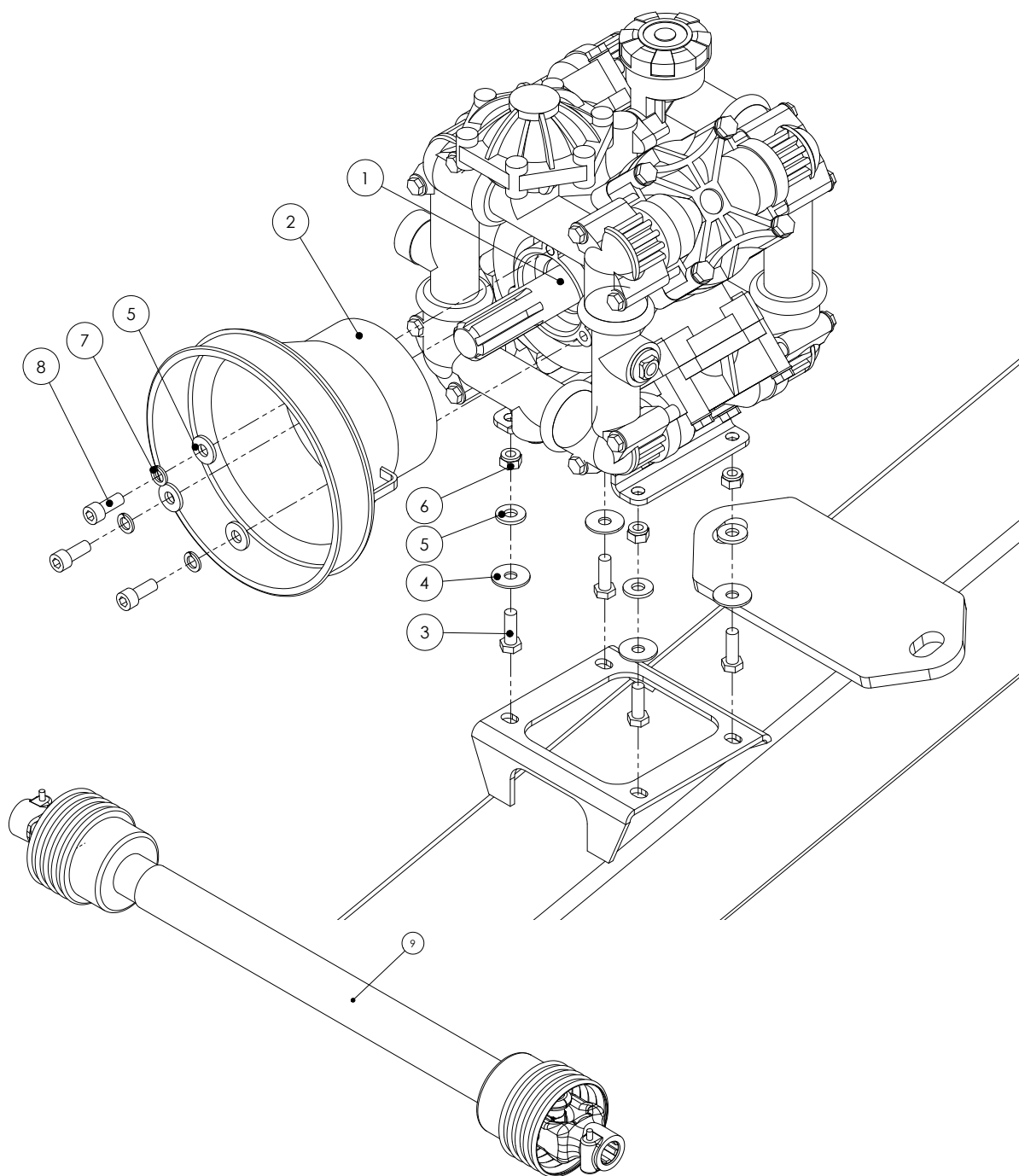


**Assembly Part No: GA5067186**

Item	Part No	Description	Quantity
1	GA5018221	1/2" Needle Valve	1
2	S83-080808	1/2" Hydraulic Tee	2
3	GA4922110	300mm Long Hydraulic Hose	1
4	GA4922115	340mm Long Hydraulic Hose	1
5	GA4922105	Hydraulic Hose to Tractor	2

Item	Part No	Description	Quantity
6	S75-08	1/2" Hydraulic Nipple	2
7	36B-08	1/2" Retaining Ring	2
8	RO-BP08	1/2" Hydraulic O-Ring	2
9	R81-08M	1/2" Quick Release Fitting	2

## PTO DRIVE PUMPS



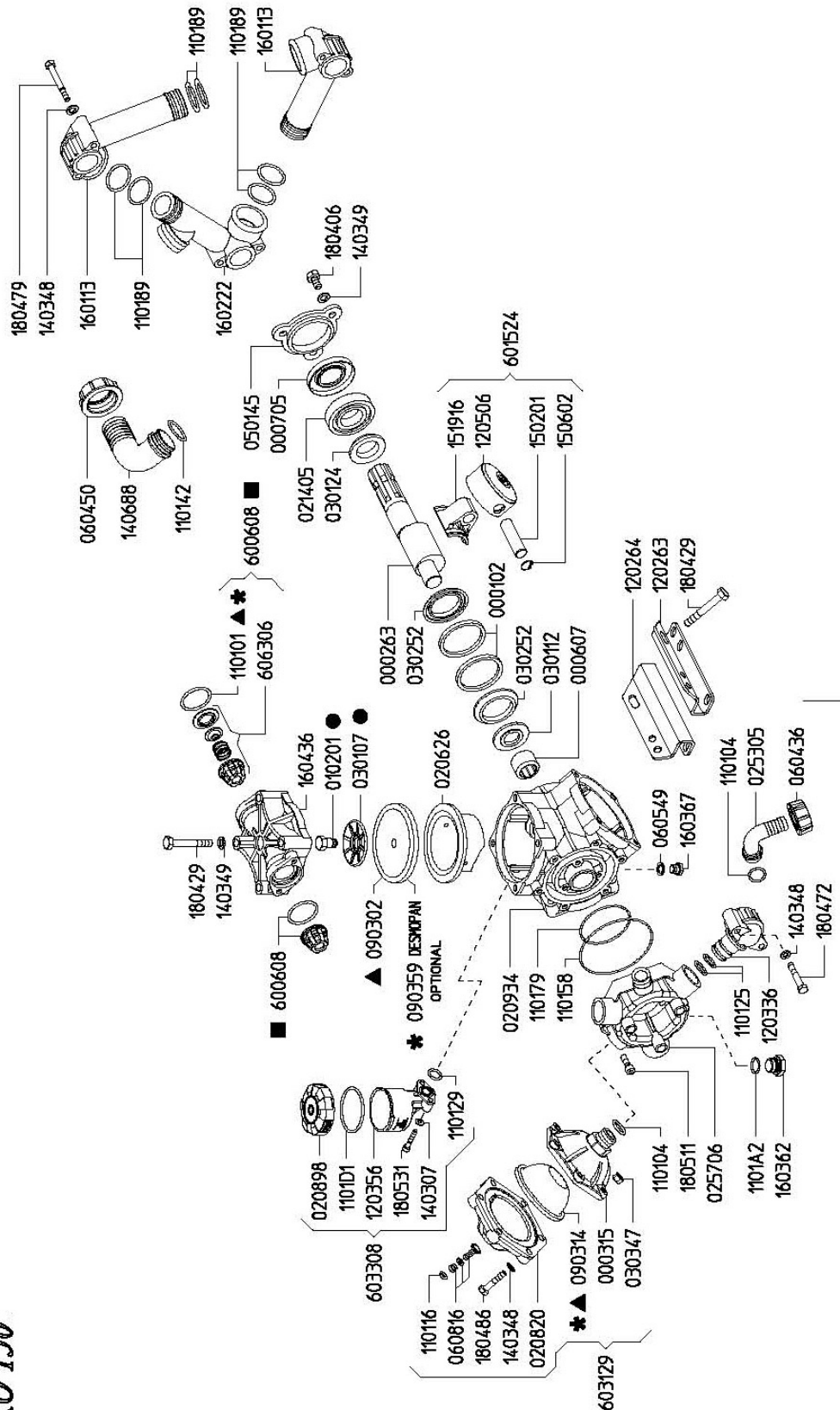
Item	Part No	Description	Quantity
1	RO1601C	Pump 160L, (Shaft Drive)	1
	RO1301C	Pump 130L, (Shaft Drive)	1
2	7650-7202121902	PTO Shaft Cover (160L/min)	1
	7650-7202121913	PTO Shaft Cover (130L/min)	1
3	GA5065455	M10 x 30mm Bolt	4
4	GA5002627	3/8" x 27mm x 3mm Washer	4

Item	Part No	Description	Quantity
5	GA5000139	10mm Washer	7
6	GA5000141	M10 Nyloc Nut	4
7	GA5000137	10mm Spring Washer	3
8	GA5006127	M10 x 25mm Cap Screw	3
9	GA5060830	PTO Shaft*	1

\*Wide angle PTO Shaft available as an option GA5013511

# I 30l/min PUMP BREAKDOWN

*RO 130*



## I 30l/min PUMP BREAKDOWN

Part No	Description
000102	Retainer Ring "RO 70...130/Zeta"
000263	Shaft "RO 130" (9,2) IC
000315	Pressure Accumulator "RO"
000607	Bushing HK25-26 D.25x32x26
000705	Oil Seal D.35x72x10
010201	Diaphragm Bolt "RO/Kappa 120"
020626	Sleeve D.75 "RO 130"
020820	Accumulator Cover "RO"
020898	Oil Reservoir Cover
020934	Crankcase "RO 110/130"
021405	Ball Bearing 6207 D.35x72x17
025305	Hose Barb D.20
025706	Outlet Manifold "RO 110/130"
030107	Diaphragm Disc "RO/Kappa 120/150"
030112	Right Bearing Disc "Zeta 85/100"
030124	Left Bearing Disc "Zeta 85/100"
030252	Rod Spacer "Zeta/RO 110/130"
030347	Hexagonal Nut M8x8 UNI5587
050145	Flange "RO 110/130"
060436	Plastic Nut G1"
060450	Plastic Nut G1" 1/2
060549	Gasket D.13x19x1,5
060816	Air Valve Assy
090302	Piston Diaphragm "RO 70...250" D.116
090314	Accumulator Diaphragm "Kappa/RO"
090359	Piston Diaphragm "Kappa 120/150" D.115,4
110101	O-Ring D.39,69x3,53 (RIF . 144)
110104	O-Ring D.20,63x2,62 (RIF . 128)
110116	O-Ring D.6,00x3 (RIF . 1263)
110125	O-Ring D.20,22x3,53 (RIF . 4081)
110129	O-Ring D.16,20x3 (RIF . 222162)
110142	O-Ring D.32,00x3 (RIF . 3832)
110143	O-Ring D.71,12x2,62 (RIF . 3281)

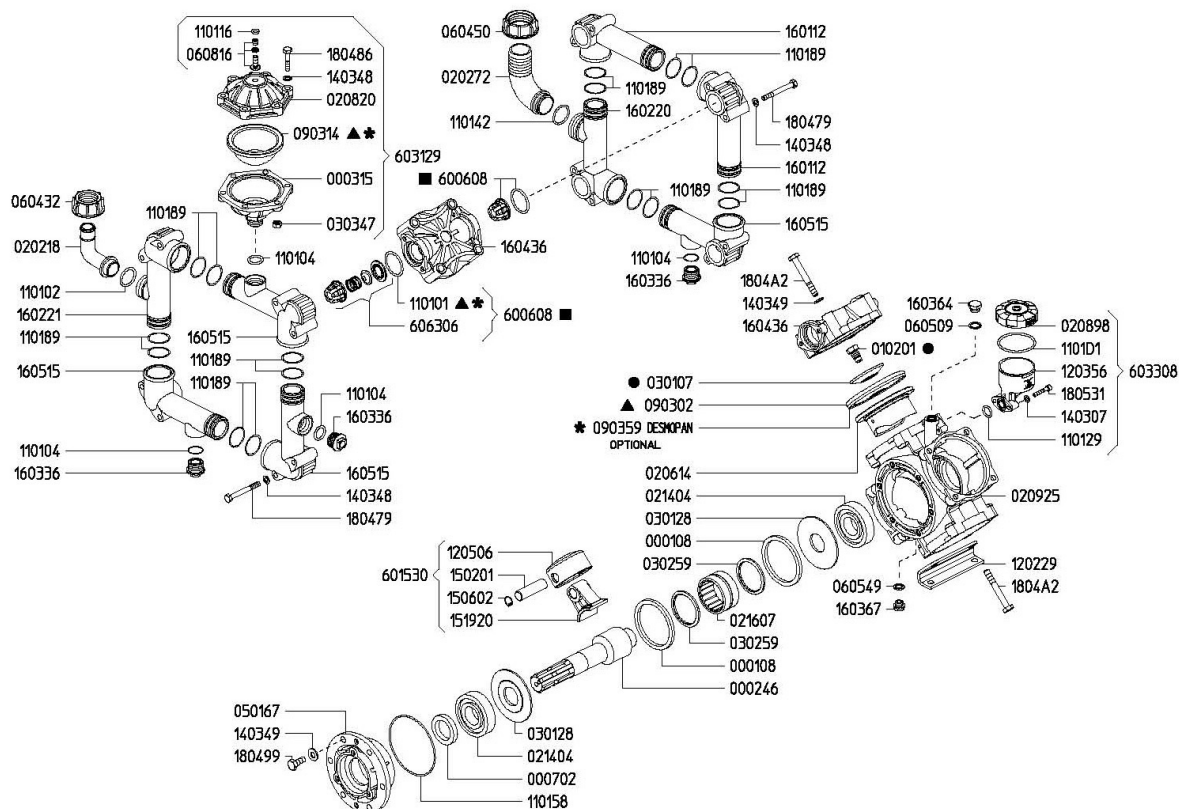
Part No	Description
110158	O-Ring D.110,0x2,5 (RIF . 115110)
110179	O-Ring D.75,88x2,62 (RIF . 3300)
1101A2	O-Ring D.17,86x2,62 (RIF . 123)
1101D1	O-Ring D.58,42x2,62 (RIF . 3231)
120263	Right Base Plate "Kappa 75"
120264	Left Base Plate "Kappa 75"
120336	Inlet-Outlet Elbow "RO 70/110/130"
120356	Oil Reservoir
120506	Aluminium Plunger D.75 "RO/Kappa 120"
140307	Washer D.6,4x12x1,6
140348	Washer D.8,4x16x1,6
140349	Washer D.10,5x18x1,6
140688	Hose Barb D.38
150201	Pin D.18x64
150602	Snap Ring D.18
151916	Connecting Rod "RO 110/130"
160113	Suction Hose "RO 110/130"
160222	Suction Hose G1" 1/2M "RO 110/130"
160362	Plug G1/2
160367	AVP Plug G 1/4
160436	Head "RO 110...250" Red
180406	Hex Screw M10x20 UNI5739 DACROMET
180429	Hex Screw M10x70 UNI5737 DACROMET
180472	Hex Screw M8x50 UNI5737 DACROMET
180479	Hex Screw M8x70 UNI5737 DACROMET
180486	Hex Screw M8x40 UNI5737 DACROMET
180511	Allen Screw M8x25 UNI5931 DACROMET
180531	Allen Screw M6x30 UNI5931 DACROMET
600608	Valve Assy "RO/Omega/Beta"
601524	Rod Assy "RO 110/130" D.75
603129	Press.Accumulator Assy "RO"
603308	Oil Reservoir Assy "RO"
606306	Valve Assy "RO 70...250" W/T O-Ring

Please note that on pump parts minimum order quantities may apply.

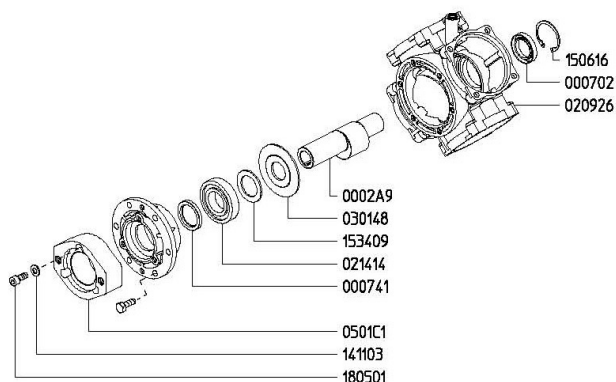


# I 60L/MIN PUMP BREAKDOWN

## RO 160 1C



## RO 160 MI-1"



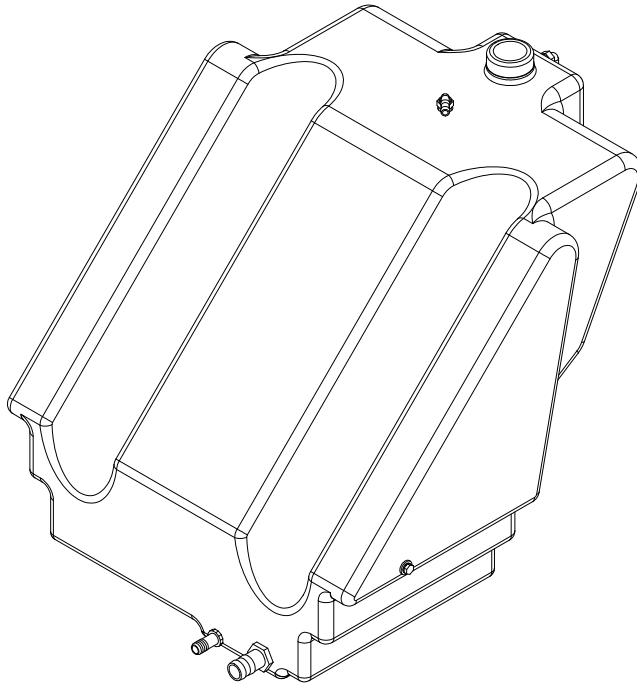
## I 60L/MIN PUMP PARTS LIST

Part No	Description	Part No	Description
000108	Retainer Ring "RO 160"	110129	O-Ring D.16,20x3 (RIF . 222162)
000246	Shaft "RO 160" (9) IC	110142	O-Ring D.32,00x3 (RIF . 3832)
0002A9	Shaft "RO 160/250" (9) MI D.1"	110158	O-Ring D.110x2,5 (RIF . 115110)
000315	Pressure Accumulator	110189	O-Ring D.36,10x3,53 (RIF . 4143)
000702	Oil Seal D.35x55x10	1101DI	O-Ring D.58,42x2,62 (RIF . 3231)
000741	Oil Seal D.40x55x7	120229	Base Plate "RO 160/180"
010201	Diaphragm Bolt "RO/Kappa"	120356	Oil Reservoir
020218	Hose Barb D.25	120506	Aluminium Plunger D.75 "RO/Kappa 120"
020272	Hose Barb D.40	140307	Washer D.6,4x12x1,6
020614	Sleeve D.75 "RO 110/160/250"	140348	Washer D.8,4x16x1,6
020820	Accumulator Cover "RO"	140349	Washer D.10,5x18x1,6
020898	Oil Reservoir Cover	141103	Schnorr Washer D.10
020925	Crankcase "RO 160"	150201	Pin D.18x64
020926	Crankcase "RO 160/180" TS	150602	Snap Ring D.18
021404	Ball Bearing 6307 D.35x80x21	150616	Snap Ring D.55
021414	Ball Bearing D.40x80x18 6208	151920	Connecting Rod "Omega 135/RO 160"
021607	Roller Bearing NK55-35 D.55x68x35	153409	Disc "RO 160/250" MI
030107	Diaphragm Disc "RO/Kappa 120/150"	160112	Inlet-Outlet Hose "RO 160/180"
030128	Rod Disc "RO 160/180/210/250"	160220	Suction Hose G1" 1/2 M "RO 160/180"
030148	Rod Disc "RO 160/250" OMR80	160221	Outlet Hose G1" 1/4 M "RO 160/180"
030259	Rod Spacer "RO 160/250"	160336	Plug G3/4
030347	Hexagonal Nut M8x8 UNI5587	160364	Brass Plug G3/8
050167	Bushing Flange "Omega 135/RO 160/250"	160367	AVP Plug G1/4
0501CI	Flange "RO 160/250" MI	160436	Head "RO 110...250" RED
060432	Plastic Nut G1" 1/4	160515	Inlet-Outlet Hose G3/4 F "RO 160/180"
060450	Plastic Nut G1" 1/2	180479	Hex Screw M8x70 UNI5737 DACROMET
060509	Gasket D.17x22x1,5	180486	Hex Screw M8x40 UNI5737 DACROMET
060549	Gasket D.13x19x1,5	180499	Hex Screw M10x25 UNI5739 DACROMET
060816	Air Valve Assembly	1804A2	Hex Screw M10x75 UNI5737 DACROMET
090302	Piston Diaphragm "RO70...250" D.116	180501	Allen Screw M10x25 UNI5931
090314	Accumulator Diaphragm "Kappa/RO"	180531	Allen Screw M6x30 UNI5931 DACROMET
090359	Piston Diaphragm "Kappa 120/150" D.115,4	600608	Valve Assy "RO/Omega/Beta"
110101	O-Ring D.39,69x3,53 (RIF . 144)	601530	Rod Assy "RO 160/180" D.75
110102	O-Ring D.29,75x3,53 (RIF . 4118)	603129	Press. Accumulator Assy "RO"
110104	O-Ring D.20,63x2,62 (RIF . 128)	603308	Oil Reservoir Assy "RO"
110116	O-Ring D.6,00x3 (RIF . 1263)	606306	Valve Assy "RO 70...250" W/T O-Ring

Please note that on pump parts minimum order quantities may apply.

# CHAPTER 3

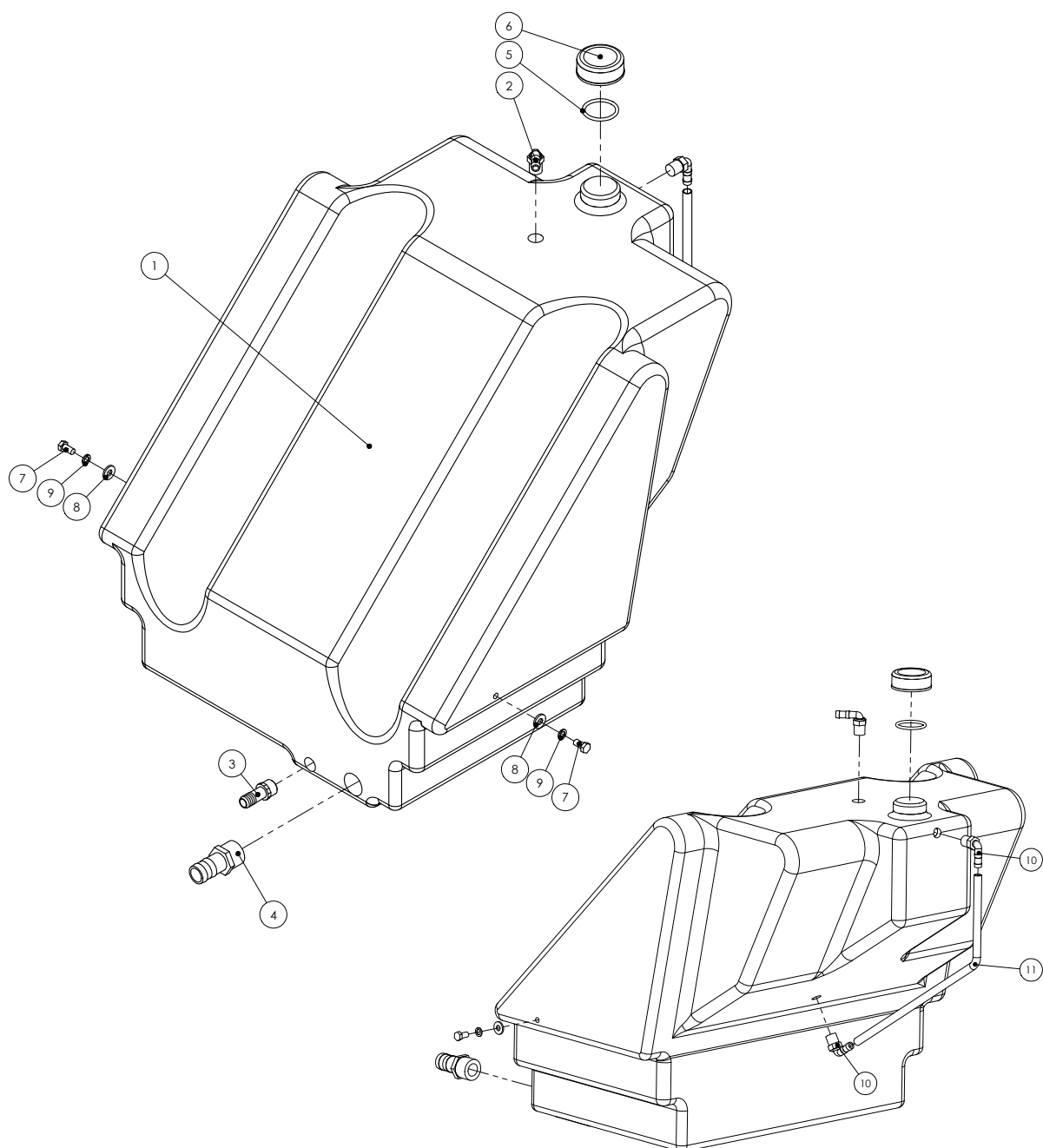
## FLUSH TANK



Flush Tank .....	3-2
Inline Check Valve .....	3-3

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# FLUSH TANK

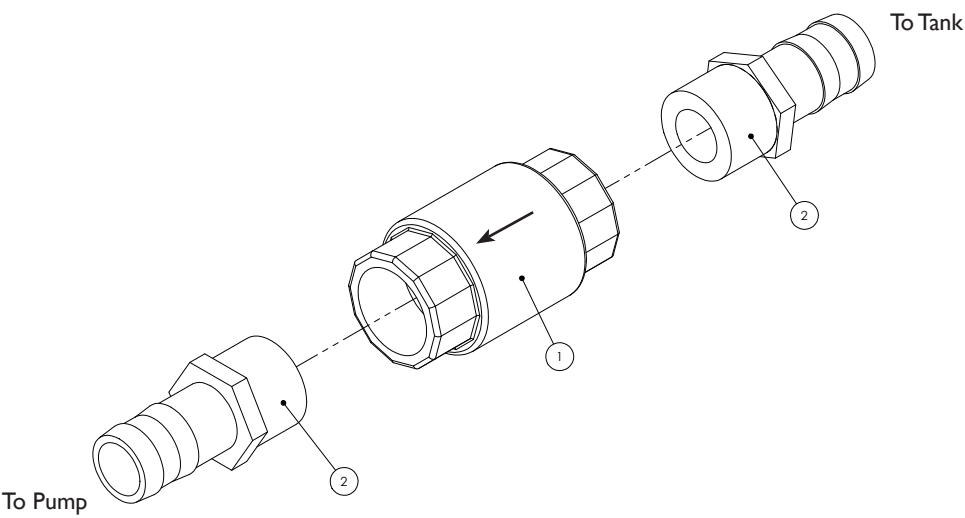


## Assembly Part No: GA4903845

Item	Part No	Description	Quantity
1	GA5061120	180L Flush Water Tank	1
2	HB075-90	3/4" Poly Elbow	1
3	HB075	3/4" Poly Hose Barb	1
4	HB125	1 1/4" Poly Hose Barb	1
5	GA5009187	O-Ring to suit Cap (50x5mm)	1
6	GA5009157	Tank Lid/Cap	1

Item	Part No	Description	Quantity
7	GA5006113	M10 x 20mm Bolt	2
8	GA5000117	10mm Washer	2
9	GA5000137	10mm Spring Washer	2
10	HB050	1/2" Poly Elbow	2
11	HOS12sight	1/2" Clear Sight Tube	0.6m

# INLINE CHECK VALVE

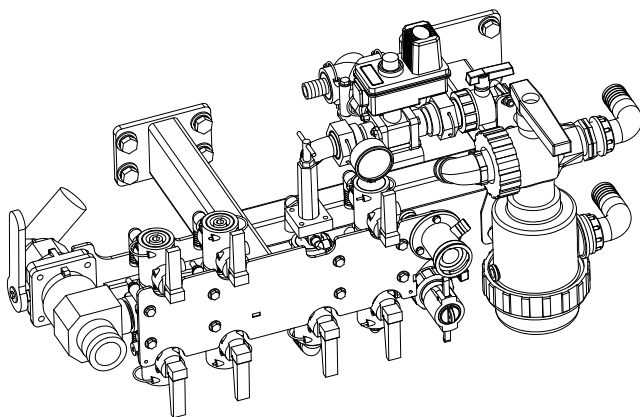


Item	Part No	Description	Quantity
1	HB125	1 1/4" Poly Hose Barb	2
2	GA5017361	1 1/4" Check Valve	1

FLUSH TANK

# CHAPTER 5

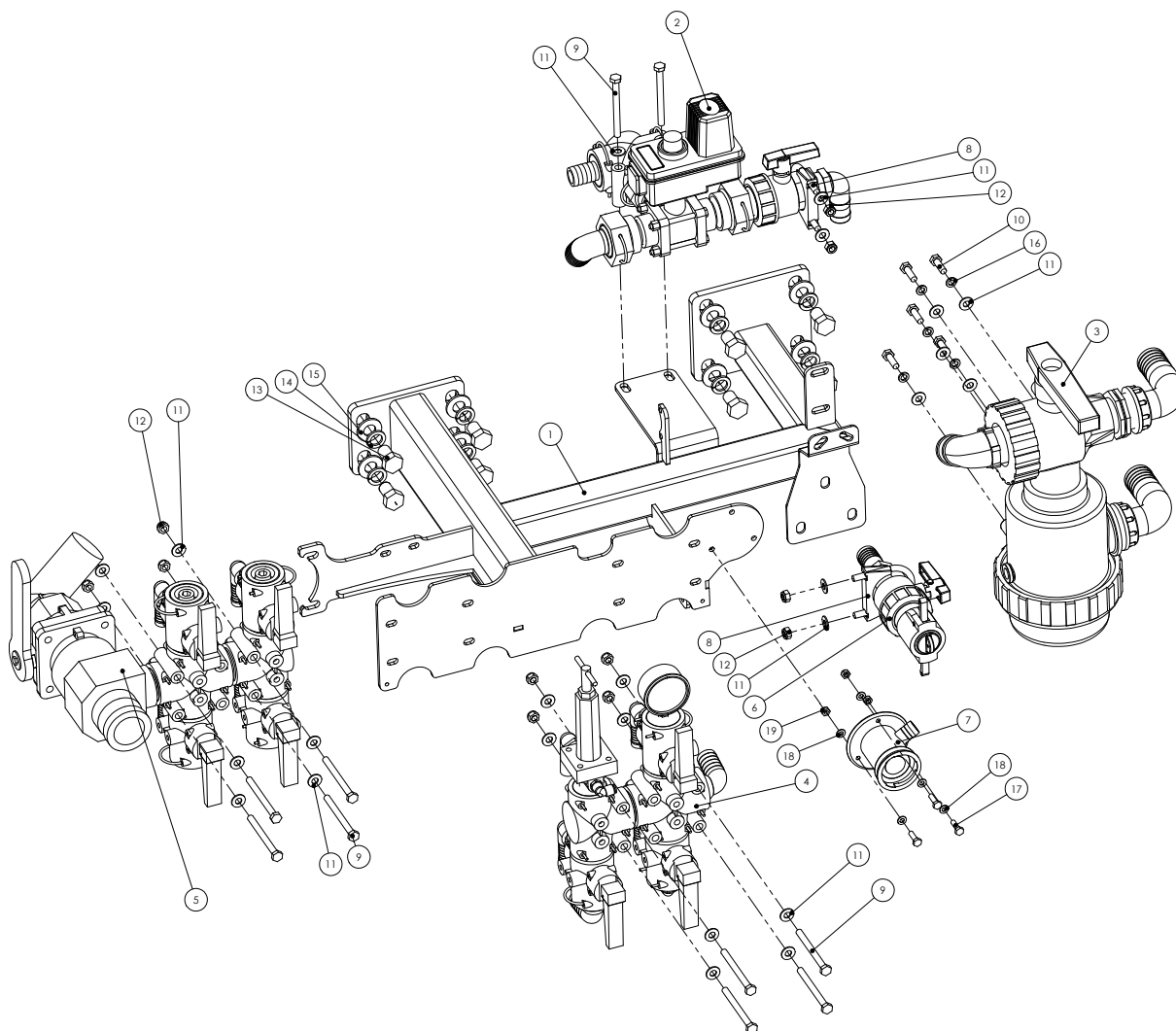
## LIQUID CONTROLS



Left Pod . . . . .	5-2
Pressure Manifold . . . . .	5-3
Flow Control Valve . . . . .	5-4
Fill Manifold . . . . .	5-5
Chem Probe . . . . .	5-6

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## LEFT POD


**Assembly Part No: GA4903805**

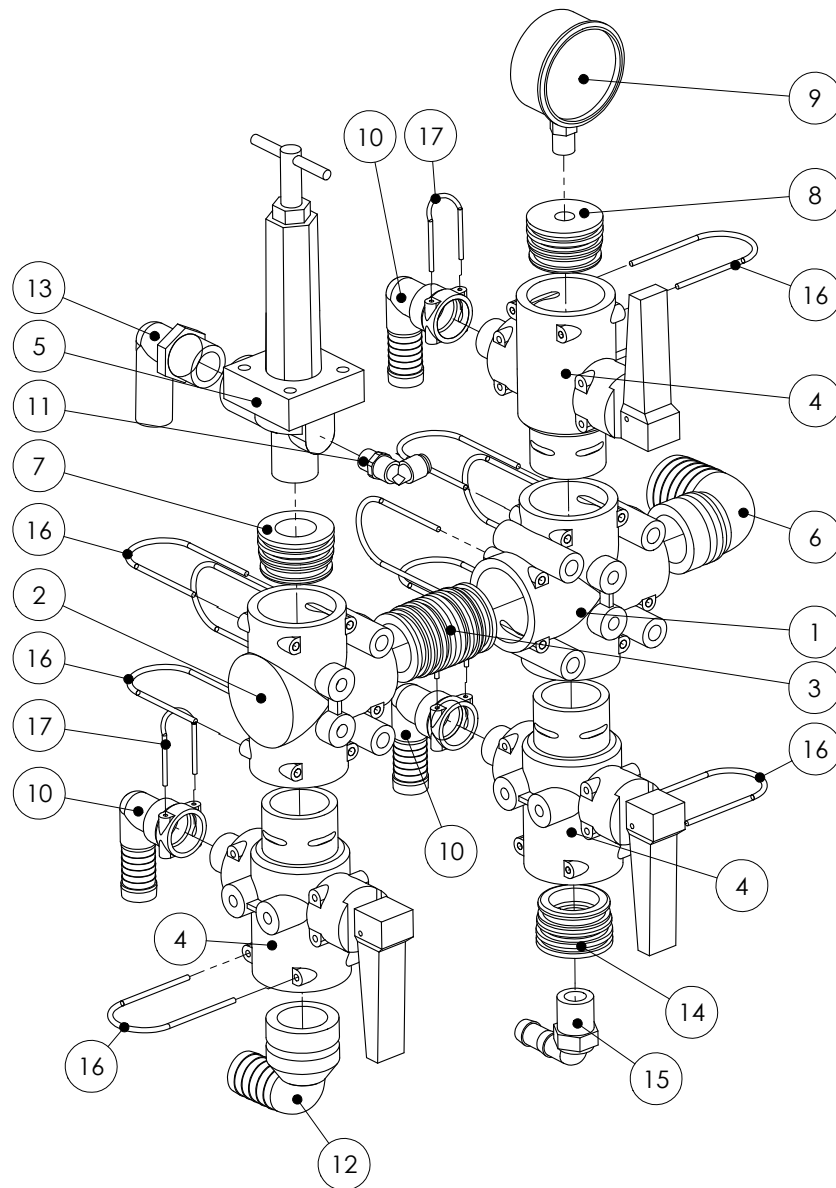
Item	Part No	Description	Quantity
1	GA4657690	Left Control Station Frame	1
2	GA4903820	Flow Control Valve Assembly	1
3	GA4903825	Suction Filter Assembly*	1
4	GA4903815	Pressure Manifold	1
5	GA4903137	Fill Manifold	1
6	GA4903082	Chem Probe Assembly	1
7	GA5018800	Enviro Rinse Coupling	1
8	GA5006705	2" Exhaust Clamp	1
9	GA5011495	M8 x 90mm Bolt	12
10	GA5004711	M8 x 25mm Bolt	5

Item	Part No	Description	Quantity
11	GA5004913	8mm Washer	33
12	GA5004917	M8 Nyloc Nut	16
13	GA5000903	M16 x 25mm Bolt	8
14	GA5001043	16mm Washer	8
15	GA5001051	16mm Spring Washer	8
16	GA5004919	8mm Spring Washer	5
17	GA5004053	M6 x 20mm Bolt	3
18	GA5004437	6mm Washer	6
19	GA5048115	M6 Nyloc Nut	3

\* Assembly breakdown shown in Chapter 19: Filtration & Hose



# PRESSURE MANIFOLD



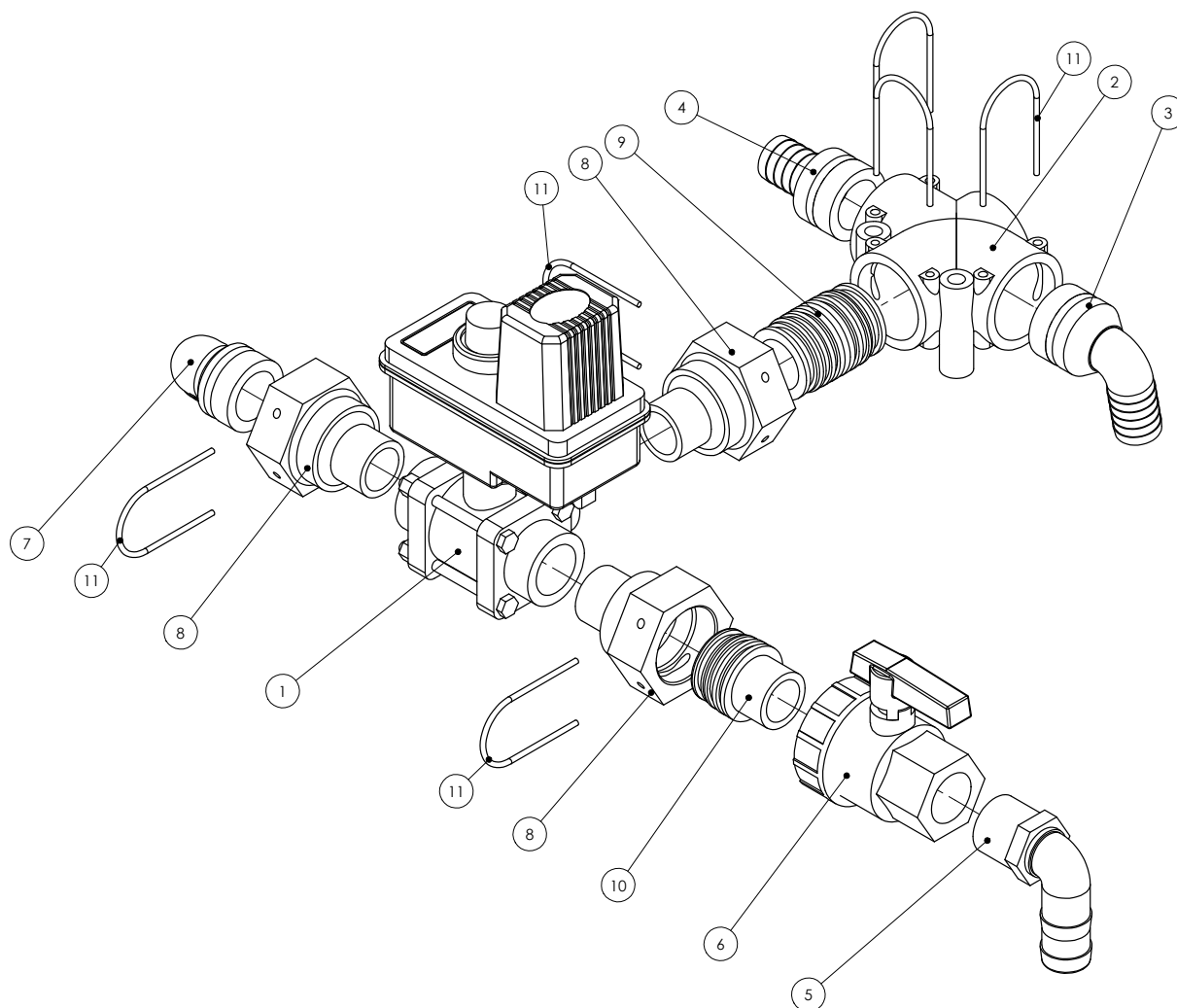
## Assembly Part No: GA4903815

Item	Part No	Description	Quantity
1	GA5065565	Cross Piece, 4 x AS40	1
2	GA5065555	Tee Piece, 3 x AS40	1
3	GA5065735	Coupling, AS40 to AS40	1
4	GA5065545	Flip Valve, with Red Handle	3
5	8460-3/4-300	Pressure Relief Valve	1
6	GA5065620	Push in Elbow, AS40 x 33mm	1
7	GA4583060	AS40 Plug with 3/4" BSPT	1
8	GA4582160	AS40 Plug with 1/4" Thread	1
9	GA4948470	160 PSI Pressure Gauge	1

Item	Part No	Description	Quantity
10	GA5065675	Push on Elbow, AS24 to 20mm	2
11	GA5016233	1/4" Hydrostatic Elbow	1
12	GA5065615	Push in Elbow, AS40 x 25mm	1
13	HB075/100-90	3/4" x 1" Poly Elbow	1
14	GA4582345	AS40 Plug with 1/2" Thread	1
15	HB050-90	1/2" Poly Elbow	1
16	GA5065690	AS40 Safety Pin	10
17	GA5065695	AS24 Safety Pin	3

For O-Rings refer to the Atek/Goldacres Parts catalogue

## FLOW CONTROL VALVE



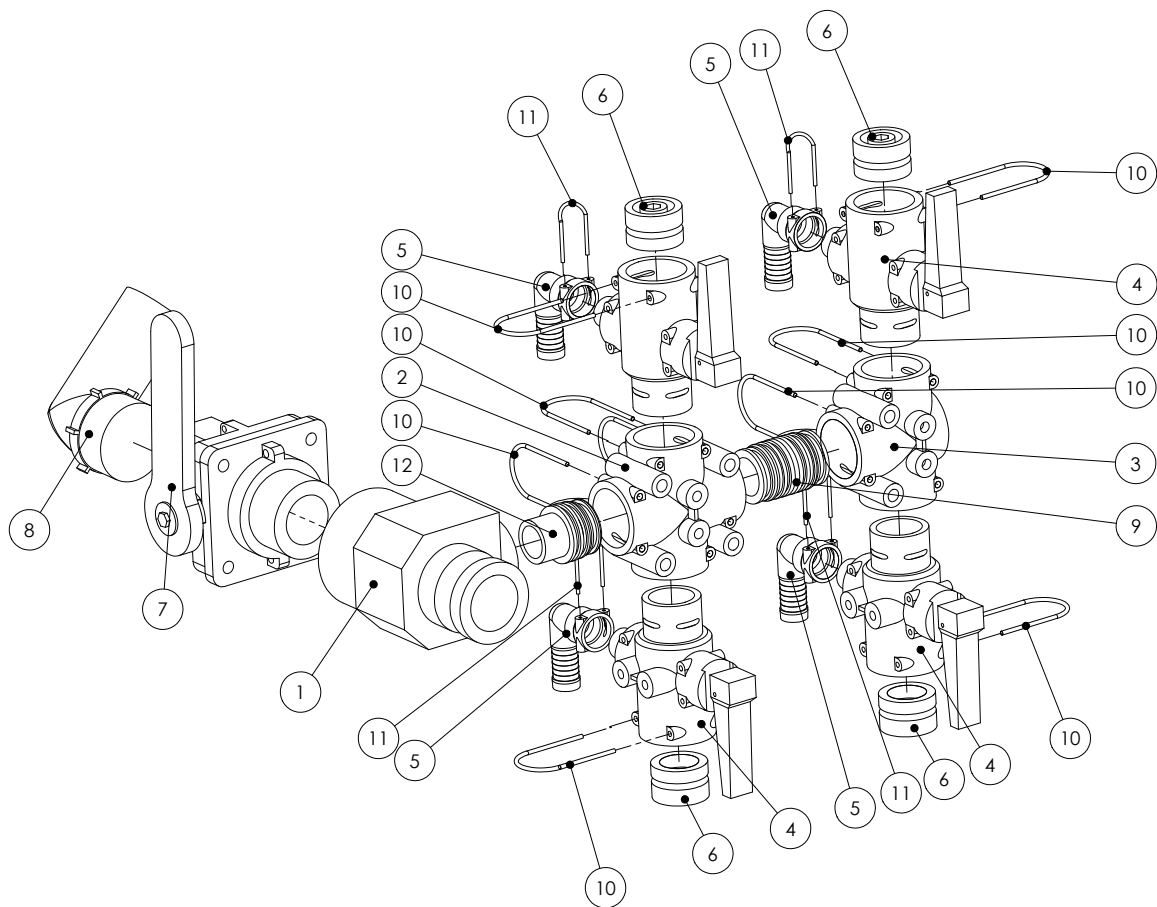
### Assembly Part No: GA4903830

Item	Part No	Description	Quantity
1	344BR-34-03CEC	3 Way Regulating Valve	1
2	GA5065555	AS40 Tee Piece	1
3	GA5065615	1" Plug in Elbow	1
4	GA5065580	1" Plug in Hose Tail	1
5	HB100-90	1" Poly Elbow	1
6	UV100FP	1" Ball Valve	1

Item	Part No	Description	Quantity
7	GA5065620	1 1/4" Plug in Elbow	1
8	GA4582385	AS40 to 1" NPT Adapter	3
9	GA5065735	AS40 to AS40 Adapter	1
10	GA5065600	AS40 to 1" Adapter	1
11	GA5065690	AS40 Safety Pin	6

For O-Rings refer to the Atek/Goldacres Parts catalogue

# FILL MANIFOLD


**Assembly Part No: GA4903137**

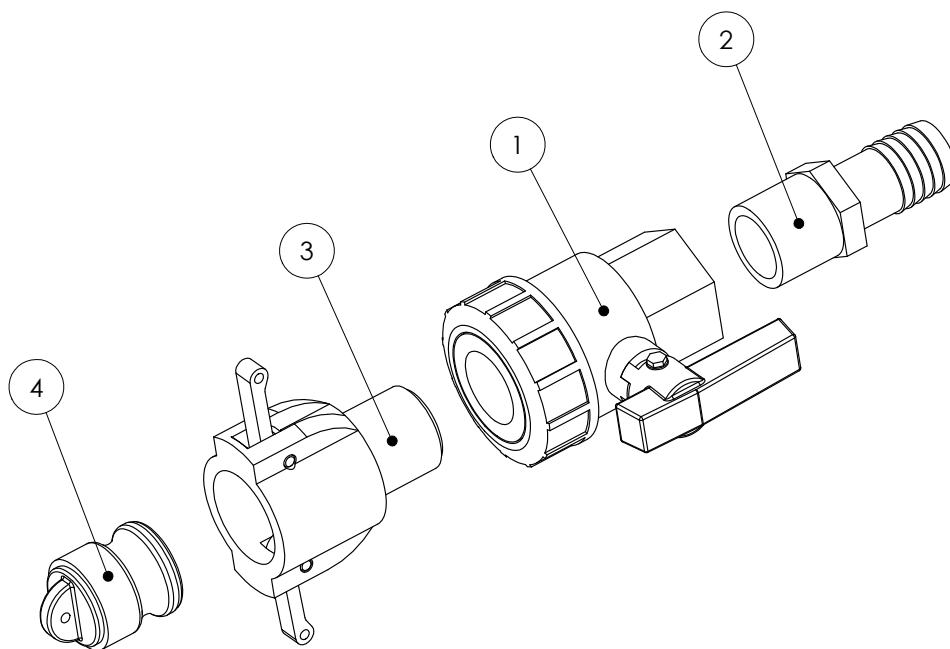
Item	Part No	Description	Quantity
1	GA4582295	2" Cam Lock Tee Fitting	1
2	GA5065565	Cross Piece, 4 x AS40	1
3	GA5065560	Tee Piece, 3 x AS40	1
4	GA5065545	Flip Valve, with Red Handle	4
5	GA5065675	Push on Elbow, AS24 x 20mm	4
6	GA5065680	Blank Plug, AS40	4

Item	Part No	Description	Quantity
7	VSMT204FP	2" Ball Valve	1
8	HB200-90	2" Poly Elbow	1
9	GA5065735	Poly Coupling, AS40 to AS40	1
10	GA5065690	AS40 Safety Pin	11
11	GA5065695	AS24 Safety Pin	4
12	GA5065600	Coupling, AS40 to 1" Thread	1

For O-Rings refer to the Atek/Goldacres Parts catalogue

## CHEM PROBE

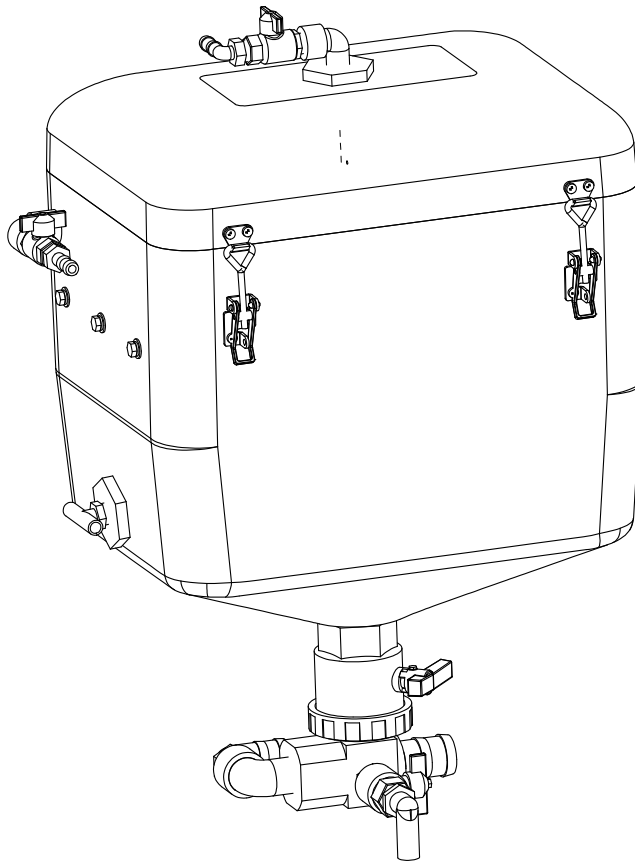
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**Assembly Part No: GA4903082**

Item	Part No	Description	Quantity
1	UV100FP	1" Ball Valve	1
2	HB100	1" Hose Barb	1
3	I00B	Female Camlock with 1" Thread I	
4	I00PL	Camlock Plug	1

# CHAPTER 8

## INDUCTION HOPPER

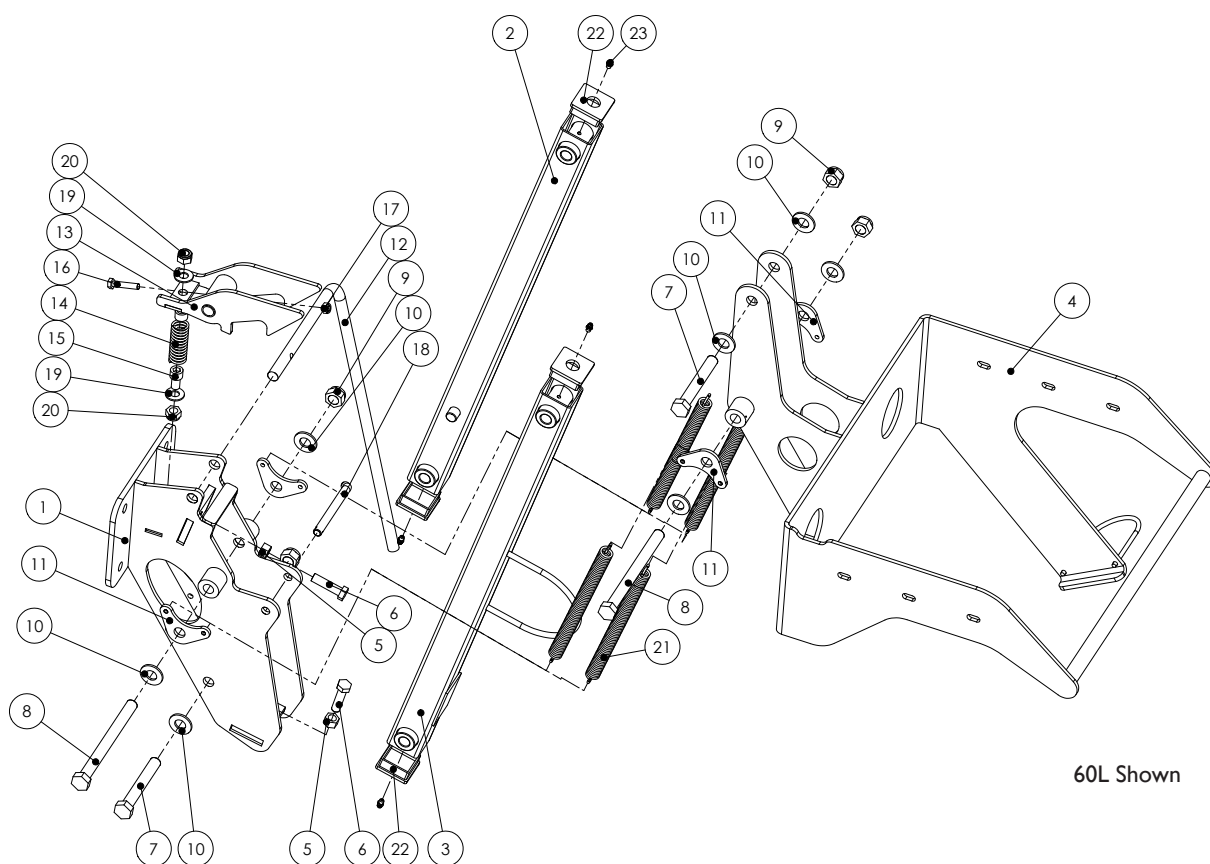


Hopper Frame .....	8-2
40L Hopper Tank. ....	8-3
60L Hopper Tank. ....	8-4
Hopper Venturi .....	8-5

Complete Aftermarket Hopper Kits are available: 40L GA4900381-40  
60L GA4900381-65-EF

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## HOPPER FRAME COMPONENTS



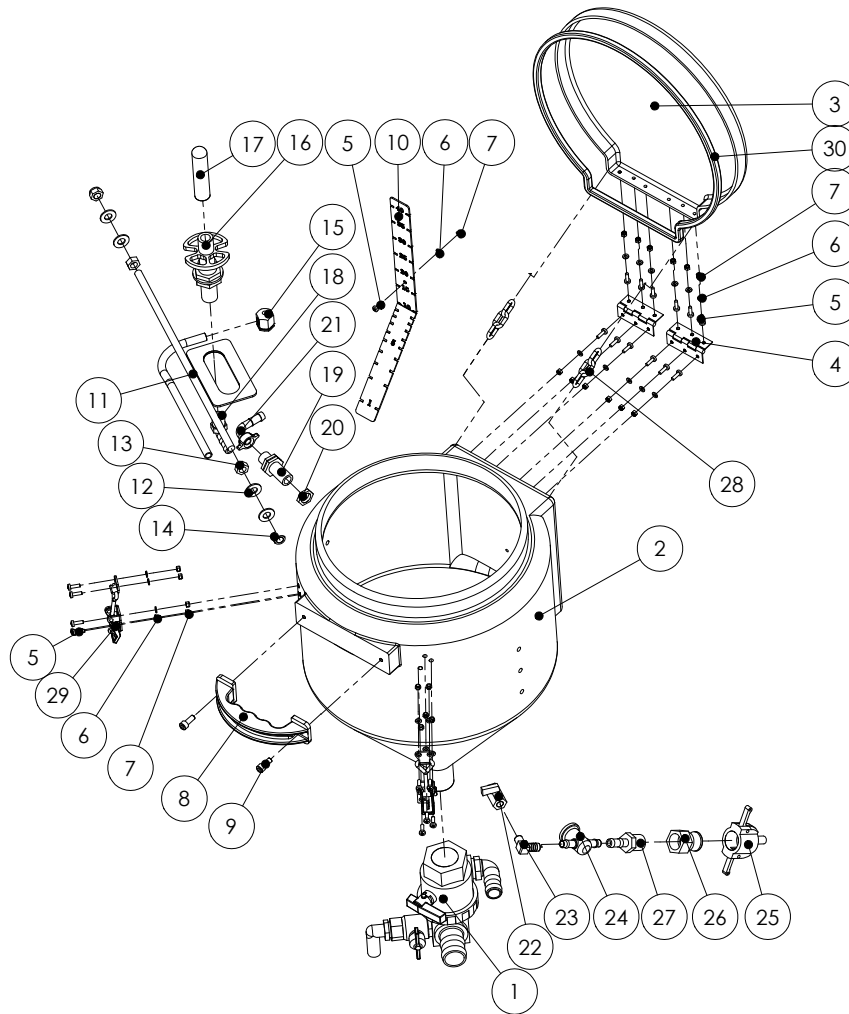
60L Shown

Item	Part No	Description	Quantity
1	GA4653420	Hopper Chassis Mount	1
2	GA4653440	Hopper Top Arm	1
3	GA4653445	Hopper Bottom Arm	1
4	GA4653470	40L Hopper Tank Frame*	1
4	GA4656855	60L Hopper Tank Frame*	1
5	GA5000581	M12 Nut	2
6	GA5000327	M12 x 45mm Bolt	2
7	GA5011275	M16 x 120mm Bolt	2
8	GA5000879	M16 x 180mm Bolt	2
9	GA5001029	M16 Nyloc Nut	4
10	GA5001043	16mm Washer	8
11	GA4522294	Spring Mounting Plate	4

Item	Part No	Description	Quantity
12	GA5010811	Catch Handle	1
13	GA4653490	Hopper Catch	1
14	GA5007329	Catch Spring	1
15	GA5050330	M12 x 20mm Cap Screw	2
16	GA5004723	M8 x 40mm Bolt	1
17	GA5004917	M8 Nyloc Nut	1
18	SP-IH-009MACH	Latch Pin	1
19	GA5000577	12mm Washer	2
20	GA5012461	M12 Nyloc Nut	2
21	GA5007073	Hopper Spring	4
22	GA5003783	50mm Tube Insert	4
23	GA5012203	1/4" Grease Nipple	4

\* Please select required tank frame

## 40L HOPPER TANK COMPONENTS

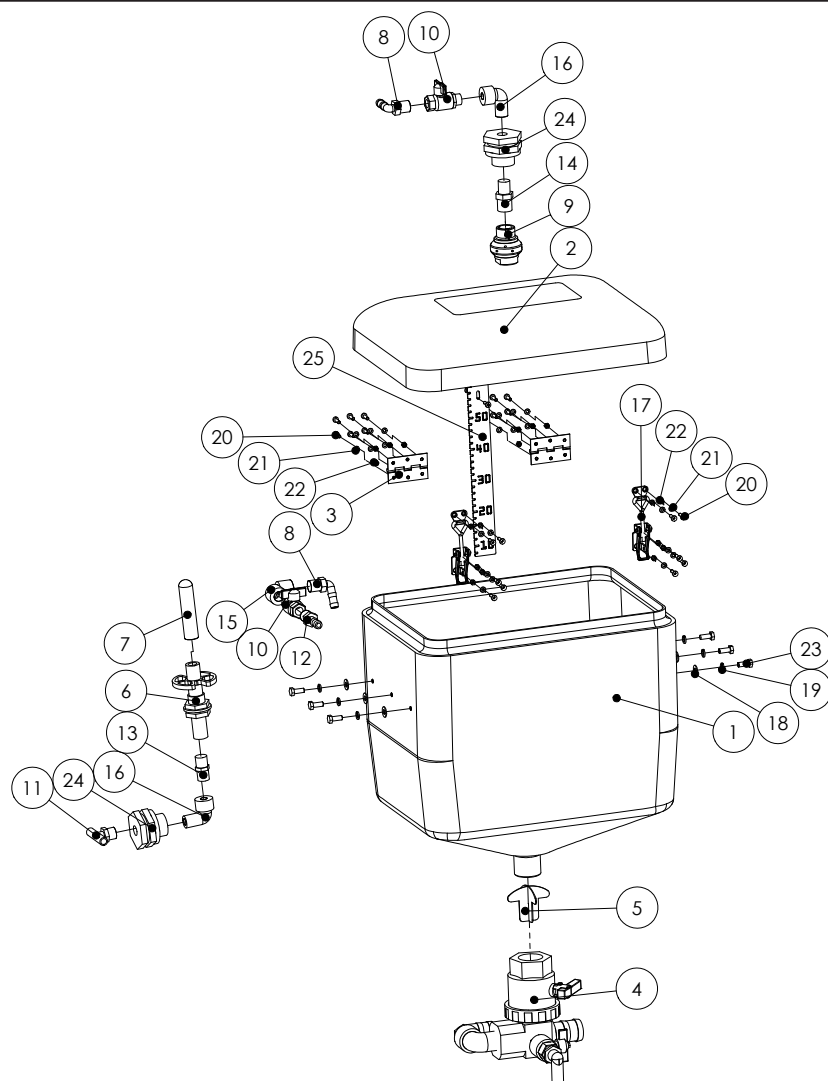


### Assembly Part No GA4903111

Item	Part No	Description	Quantity
1	GA4903105	Induction Hopper Venturi*	1
2	GA4901044	Induction Hopper Tank (40L)	1
3	GA5003333	Induction Hopper Tank Lid	1
4	GA5006661	Butt Hinge	1
5	GA5003977	M5 x 16mm Pan Head Bolt	27
6	GA5003983	5mm Washer	27
7	GA5003975	M5 Nyloc Nut	27
8	GA5009841	Hopper Handle	1
9	GA5004707	M8 x 20mm Cap Screw	2
10	F70275A	Level Indicator Insert	1
11	GA4653590	Spray Manifold	1
12	GA5000577	12mm Washer	4
13	GA5000581	M12 S/S Nut	2
14	GA5012461	M12 Nyloc Nut	2
15	L071A	Tank Rinsing Nozzle	1

Item	Part No	Description	Quantity
16	510100	Push Down Valve	1
17	510110	1/2" Rinse Nozzle Head	1
18	HB050-90	1/2" Poly Elbow	1
19	2502021	1/2" Long Nipple	1
20	GA5070110	1/2" Brass Lock Nut	1
21	GA5012375	Brass Elbow and Nut	1
22	GA5018321	8mm Ball Valve	1
23	GA5048390	1/2" x 1/4" Brass Elbow	1
24	GA5070150	13mm x 1/2" Tee	1
25	50C	1/2" Female Coupler	1
26	75A	3/4" Male Coupler	1
27	HB075-050	3/4" x 1/2" Hose Barb	1
28	GA5003983	Chain	10 Links
29	GA5007071	Hopper Latch	2
30	GA5012981	Hopper Seal	1.24m

## 60L HOPPER TANK COMPONENTS



### Assembly Part No: GA4903113

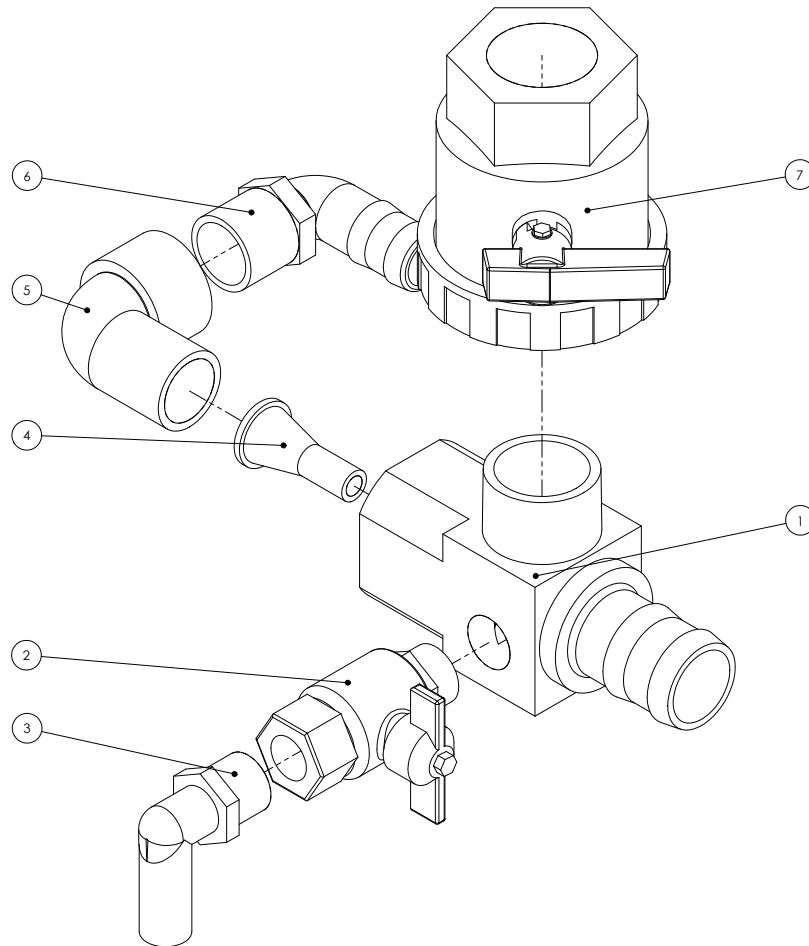
Item	Part No	Description	Quantity
1	GA5070040	Hopper Tank, 60L & Lid	1
2	GA5070045	Hopper Lid	1
3	GA5006661	Hinge	2
4	GA4903114	Hopper Bottom	1
5	GA4657115	Anti-Aeration Device	1
6	510100	Push Down Valve	1
7	510110	Drum Rinse Nozzle	1
8	HB-050-90	1/2" Barbed Elbow	2
9	B55270-3/4-18	Tank Rinse Nozzle	1
10	GA5020615	1/2" Ball Valve	2
11	TI2T	1/2" Poly Tee	1
12	HB050	1/2" Hose Barb	1
13	NIP-050-SH	1/2" Poly Nipple	1

Item	Part no	Description	Quantity
14	RN-075-050	3/4" x 1/2" Reducing Nipple	1
15	EL-050-90	1/2" Female to Female Elbow	1
16	SL-050-90	1/2" Female to Male Elbow	2
17	GA5007071	Hopper Catch	2
18	GA5003651	8mm Washer	6
19	GA5004921	8mm Spring Washer	6
20	GA5003976	M5 x 20mm Pan Head Screw	23
21	GA5003983	5mm Washer	23
22	GA5003983	M5 Nyloc Nut	23
23	GA5011465	M8 x 20mm Bolt	6
24	TF050	1/2" Poly Bulkhead	2
25	GA4522296	Level Height Indicator	1
26	GA5016473	Foam Sealing Tape*	1.8m

\* Not Shown in diagram



# HOPPER VENTURI


**Assembly Part No GA4903105**

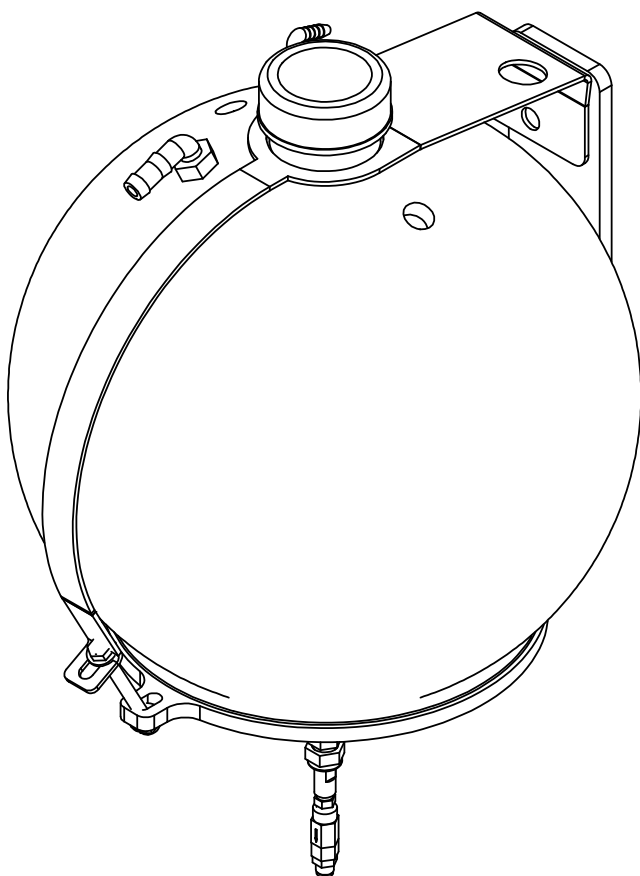
Item	Part No	Description	Quantity
1	L056A	Hopper Bottom Tee	1
2	GA5018315	20mm Ball Valve	1
3	HB075-90	3/4" Barbed Elbow	1
4	L057A	Hopper Venturi 9mm*	1
	GA4572150	Hopper Venturi 7mm*	1
5	SL100-90	1" Elbow	1
6	HB100-90	1" Barbed Elbow	1
7	UV150FP	1 1/2" Ball Valve	1

\* 9mm Hopper Venturi is fitted as standard, but a 7mm Venturi is available for low volume pumps

INDUCTION  
HOPPER

# CHAPTER 9

## FOAM MARKER

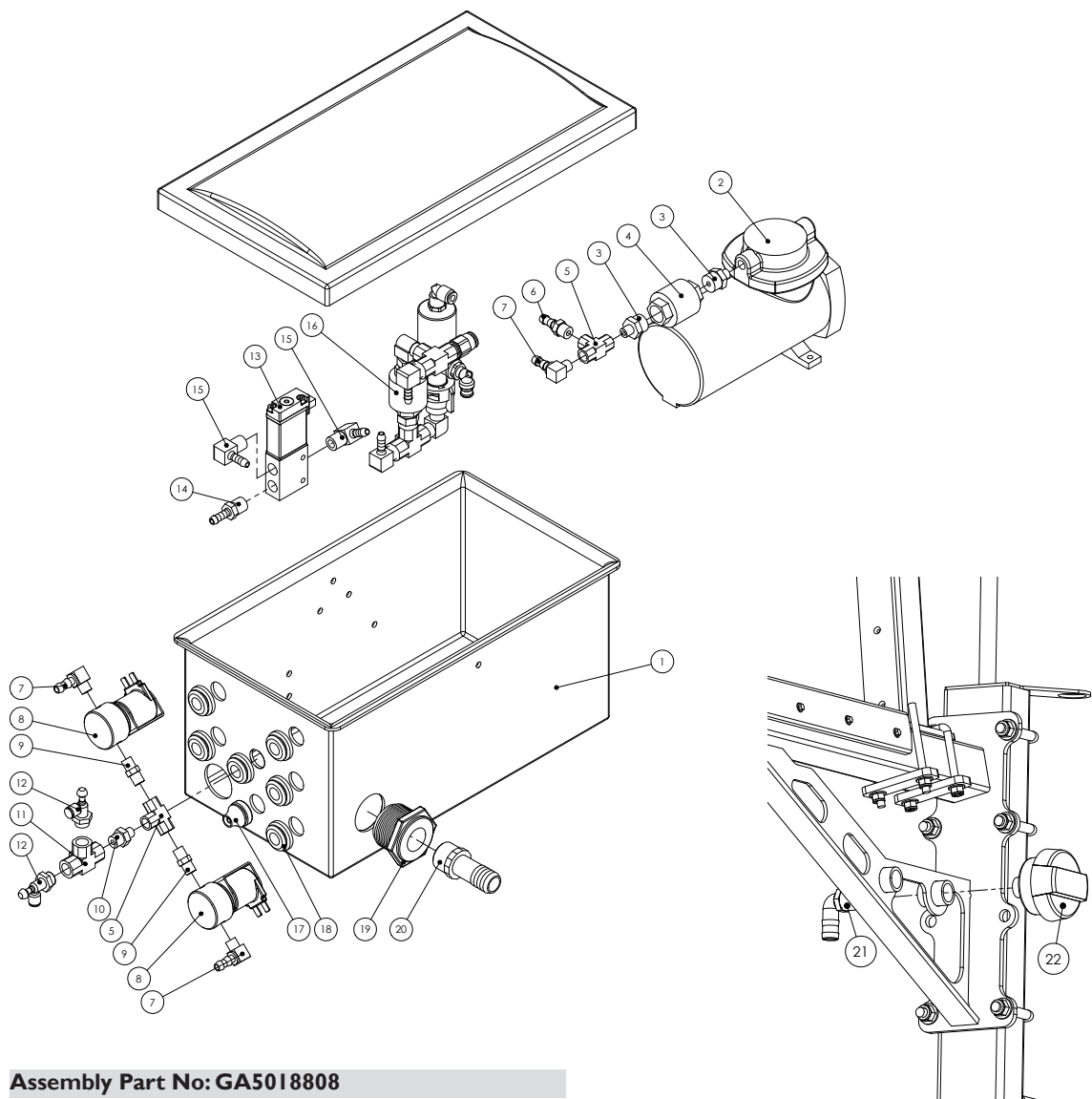


Foam Marker Box.....	9-2
Foam Marker Box Hardware .....	9-3
Foam Marker Exhaust Valve .....	9-4
Foam Marker Compressor.....	9-5
Foam Concentrate Tank .....	9-6
Drain Cock with Strainer Assembly.	9-7
Exacta Foam Marker Tank Mount...	9-8
Exacta Foam Marker Tank.....	9-9

Complete Aftermarket Foam Marker kit available Part No GA4900507-PS-EF

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FOAM MARKER BOX COMPONENTS



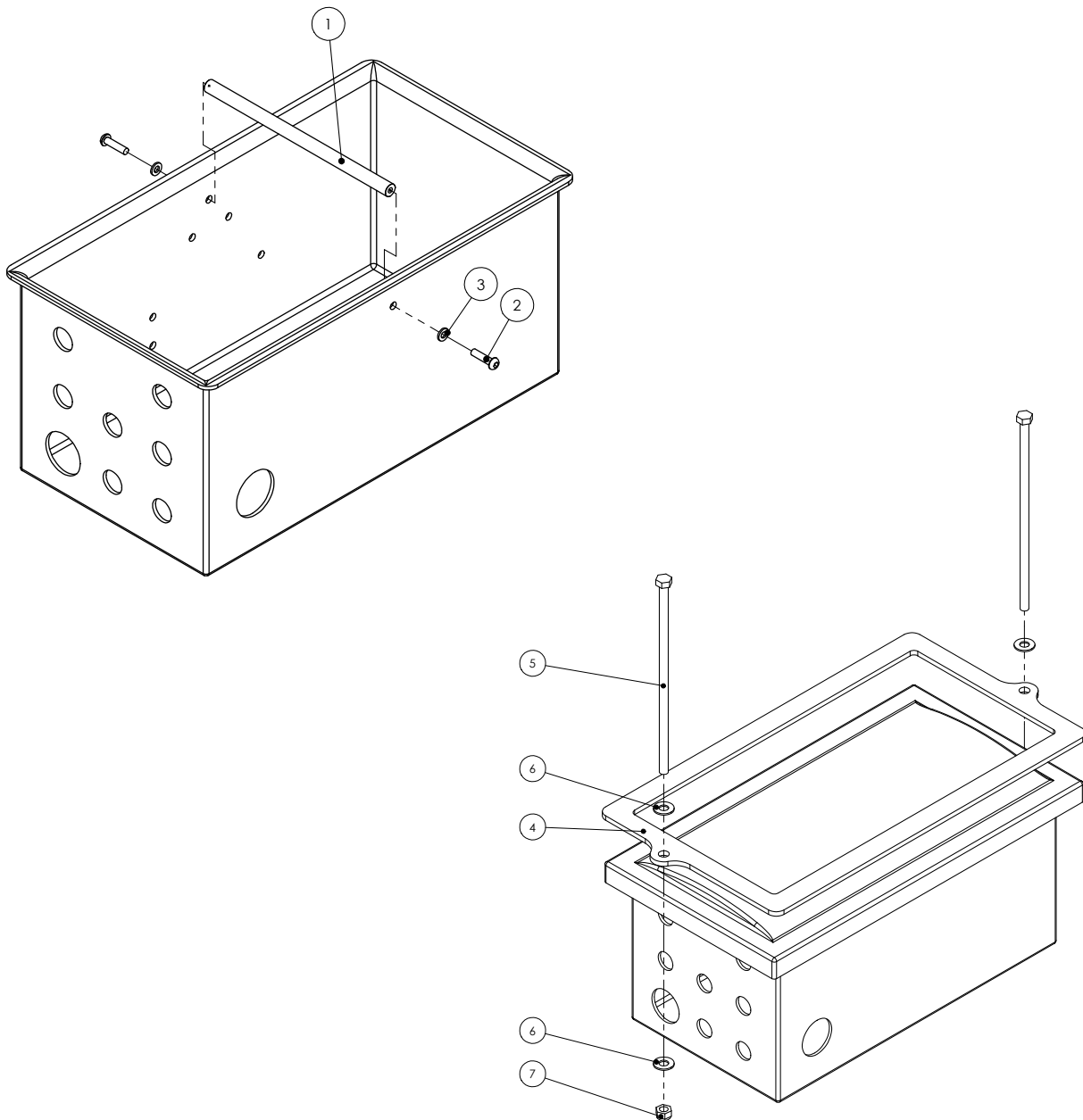
Assembly Part No: GA5018808

Item	Part No	Description	Quantity
1	GA5066855	Foam Marker Box & Lid	1
2	GA5018806	Air Compressor*	1
3	GA5020690	1/8" x 3/8" Reducing Nipple	2
4	GA5020010	3/8" Check Valve	1
5	GA5016559	1/8" Female Brass Tee	2
6	GA5066945	1/4" x 1/8" Hose Barb	1
7	GA5066950	1/4" x 1/8" Brass Elbow	3
8	GA5018395	Liquid Solenoid	2
9	GA5066935	1/8" Brass Nipple	2
10	GA5013809	1/4" x 1/8" Reducing Nipple	1
11	GA5048300	1/4" Brass Tee	1
12	GA5015643	Needle Valve	2

Item	Part No	Description	Quantity
13	GA5002959	Air Solenoid	1
14	GA5020540	1/4" Brass Hose Barb	1
15	GA5048340	1/4" Brass Elbow	2
16	GA4912005	Foam Marker Exhaust Valve	1
17	GA5017703	19x5mm Grommet	1
18	GA5012199	29mm Neoprene Grommet	7
19	RB100075	1" x 3/4" Reducing Bush	1
20	HB075	3/4" Hose Barb	1
21	HB100-90	1" Poly Elbow	1
22	GA5005259	1" Air Filter	1
23	GA5013371*	Wiring Loom with Connectors	1

\* Compressor Part Breakdown shown on Page 9-5

# FOAM MARKER BOX HARDWARE

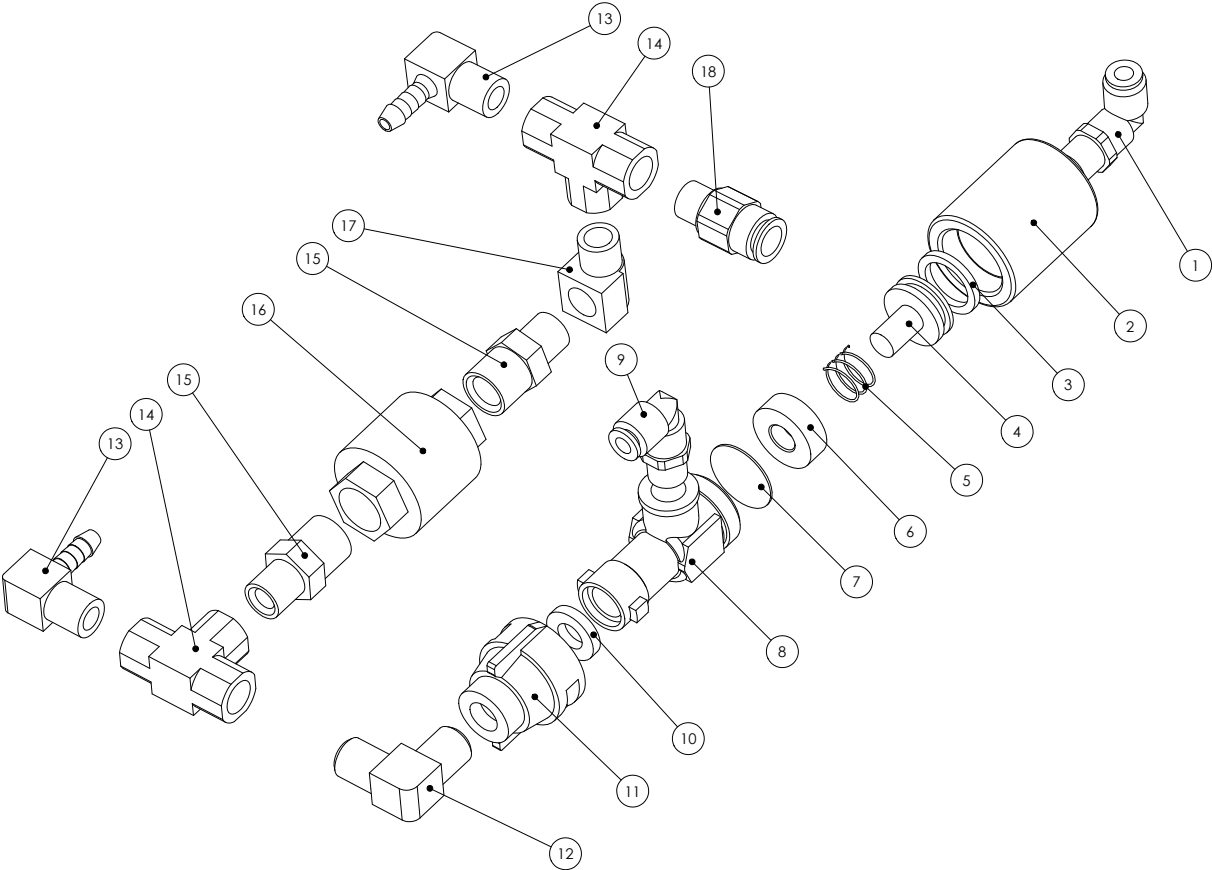


Item	Part No	Description	Quantity
1	GA4572130	Compressor Box Spacer Bar	1
2	GA5003976	M5 x 20mm Panhead Set Screw	2
3	GA5003983	5mm Washer	2
4	F70254A	Top Retainer Plate	1

Item	Part No	Description	Quantity
5	MACH0041	M8 x 210mm Bolt	2
6	GA5003651	8mm Washer	4
7	GA5004917	M8 Nyloc Nut	2
8	GA5016463	Foam Sealing Tape*	1.3m

\* Not shown in diagrams

FOAM MARKER EXHAUST VALVE

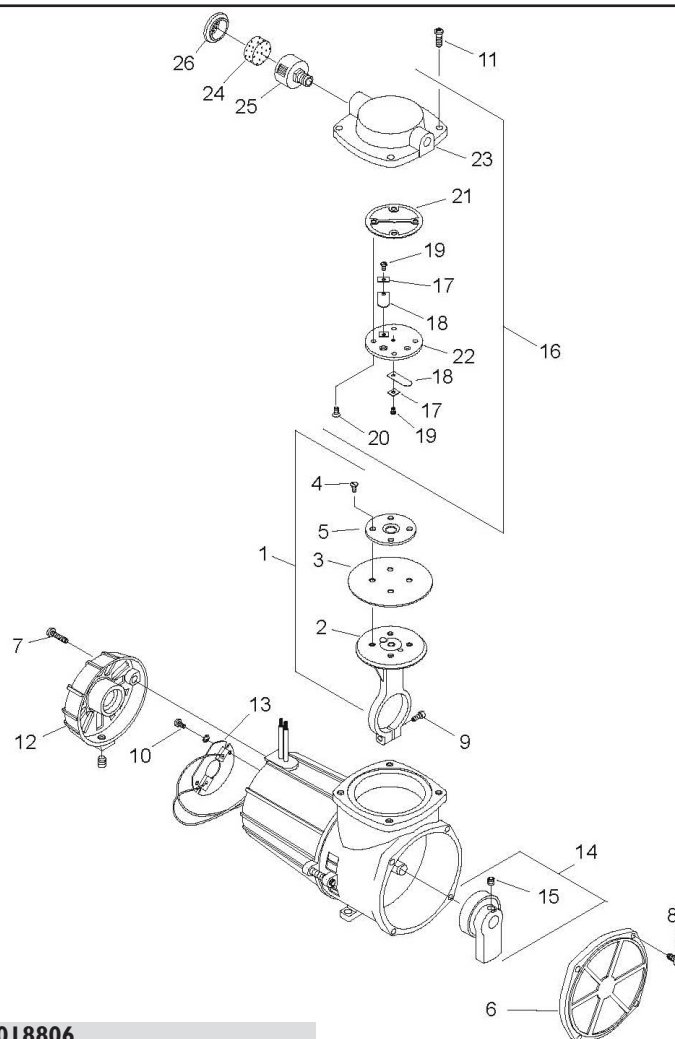


Assembly Part No: GA4912005

Item	Part No	Description	Quantity
1	GA5045145	6mm x 1/8" BSPT Elbow	1
2	GA4572000	Chemsaver Body	1
3	CP50676-VI	Cup Seal	1
4	GA4572005	Chemsaver Piston	1
5	GA5045090	Spring 14.2 x 14	1
6	GA4572010	Chemsaver Washer	1
7	QJ8355-1/4-NYR	Diaphragm	1
8	005860036	Diaphragm Nozzle Body	1
9	GA5016233	6mm x 1/4" BSP Elbow	1

Item	Part No	Description	Quantity
10	402200040	Cap Seal	1
11	QJ4676-1/4-NYR	Adapter	1
12	GA5008343	1/4" Elbow	1
13	GA5048340	1/4" Barbed Elbow	2
14	GA5048300	1/4" Brass Tee	2
15	GA5045085	1/4" x 3/8" Nipple	2
16	GA5020010	3/8" Check Valve	1
17	GA5048305	1/4" Extruded Elbow	1
18	GA5045140	6mm x 1/4" BSPT Adapter	1

# FOAM MARKER COMPRESSOR PARTS



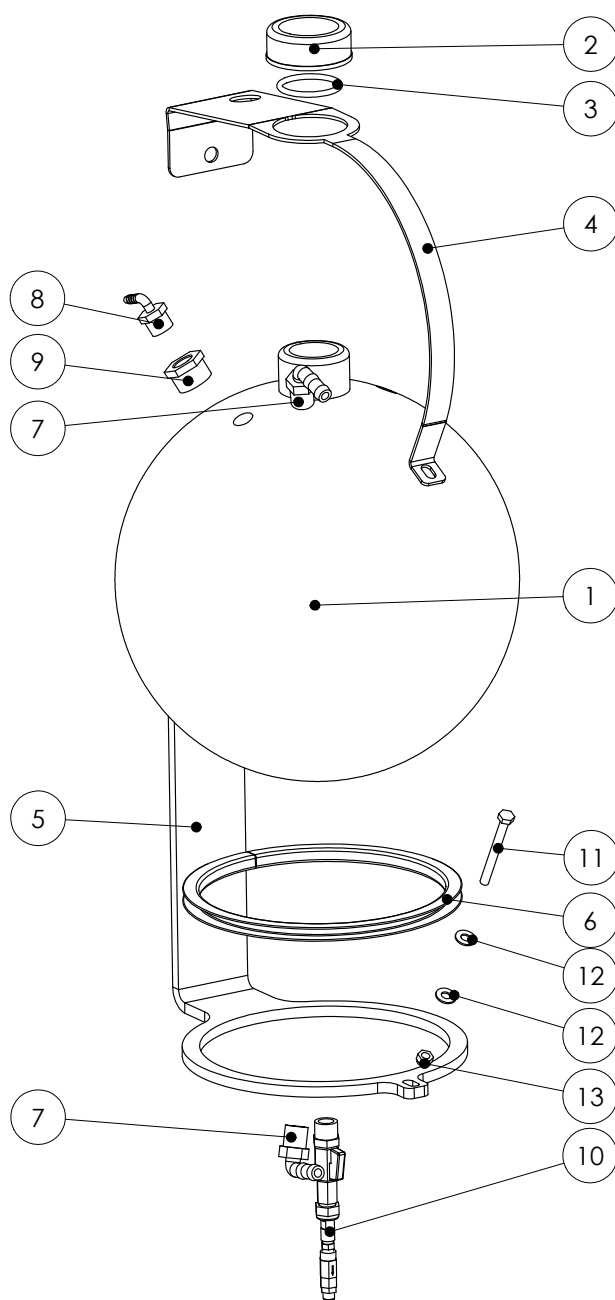
## Assembly Part No GA5018806

Item	Part No	Description	Quantity
1	607180	Connecting Rod Assembly	1
2	607139	Connecting Rod	1
3	608148	Diaphragm	1
4	625540	Screw - Hold Down Plate	4
5	654649	Hold Down Plate	1
6	614608	Front Cover	1
7	614608	Screw - Motor End Cap	2
8	625660	Screw - Front Cover	4
9	625114	Conn Rod. Screw	1
10	625476	Screw - Brush Card	2
11	625444	Screw - Head	4
12	620352	Motor End Cap Assembly	1
13	627093	Brush Card Assembly	1
14	645373	.18 Stroke Eccentric & Bearing Assy	1
	667611	.20 Stroke Eccentric & Bearing Assy	1

Item	Part No	Description	Quantity
15	625244	Set Screw - Eccentric	1
16	660873-504	Head & Valve Plate Assembly	1
17	617045	Valve Keeper	2
18	621102	Valve Flapper - Intake & Exhaust	2
19	625160	Screw - Flapper	2
20	625606	Screw - Valve Plate	4
21	633439	Gasket - Head	1
22	654129	Valve Plate	1
23	660131-504	Head	1
24	641034	Filter Foam	1
25	660763	Filter Body	1
26	660767	Filter Body Cap	1

Note: Not all parts are stocked in australia. Some parts may not be available.

## FOAM CONCENTRATE TANK

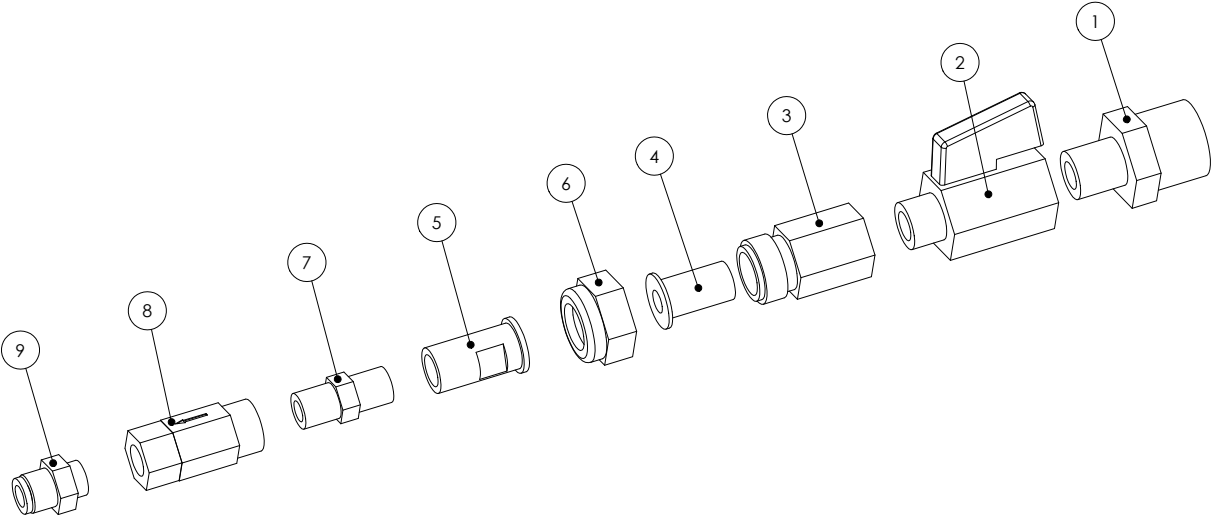


Item	Part No	Description	Quantity
1	GA4901038	Foam Concentrate Tank, 25L	1
2	GA5009157	Cap suit Exacta Tank	1
3	GA5009187	O-Ring suit Cap	1
4	F70622A	Injection Bottle Strap	1
5	F70609A	Bottle Mount	1
6	GA5010085	Hollow Rectangular Rubber 691mm	1
7	HB050-90	1/2" Poly Elbow	2

Item	Part No	Description	Quantity
8	EL1214	1/2" x 1/4" Elbow	1
9	RB100050	1" x 1/2" Reducer Bush	1
10	GA4903077	Pre-Assembled Filter & Ball Valve	1
		for Direct Injection Foam	1
11	GA5004749	M8 x 80mm Bolt	1
12	GA5004913	8mm Washer	2
13	GA5004917	M8 Nyloc Nut	1



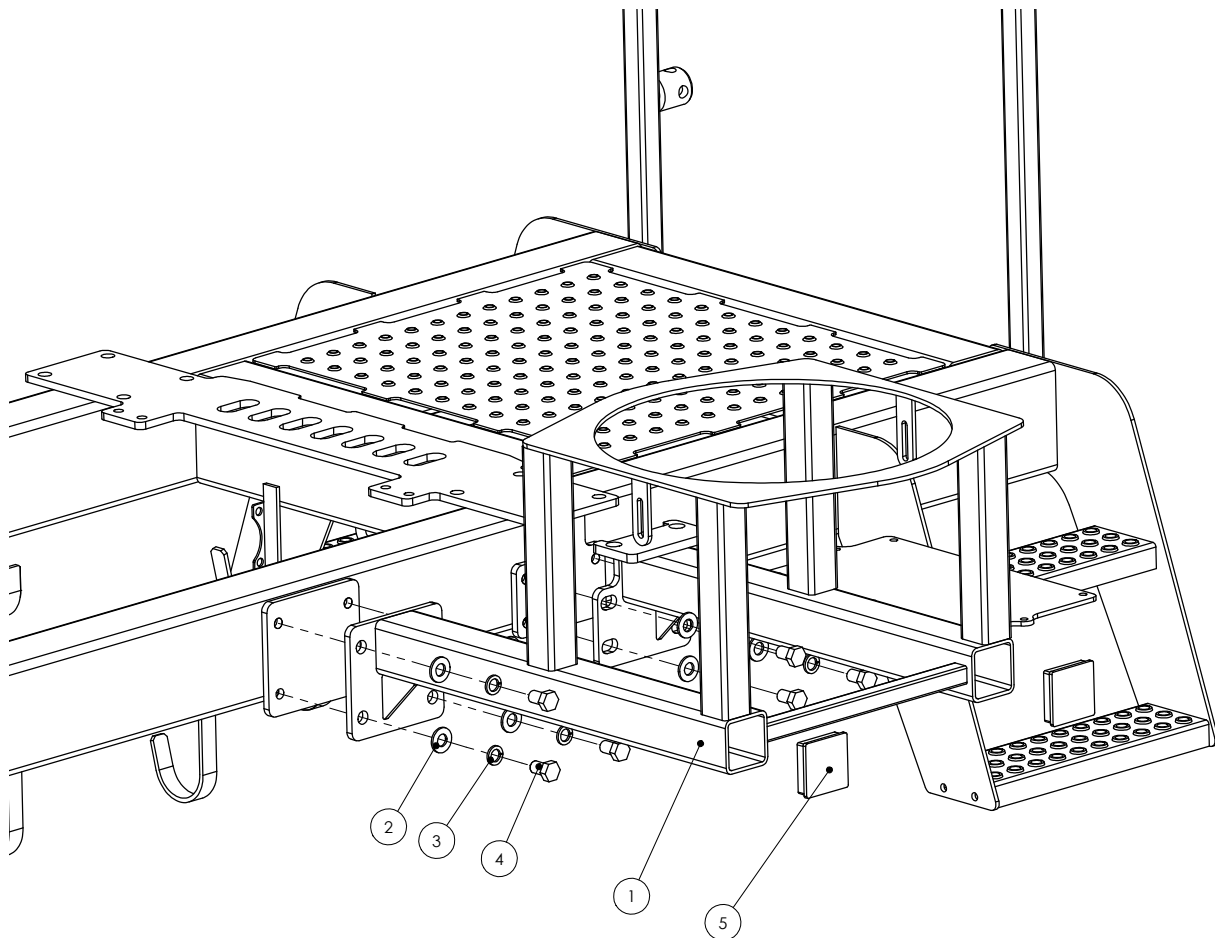
# DRAIN COCK WITH STRAINER ASSEMBLY



Assembly Part No: GA4903077			
Item	Part No	Description	Quantity
1	GA5012259	Reducing Nipple	1
2	GA5017405	Ball Valve	1
3	CPI321	Brass Nozzle Body	1
4	8079-PP-200	200 Mesh Strainer (Orange)	1

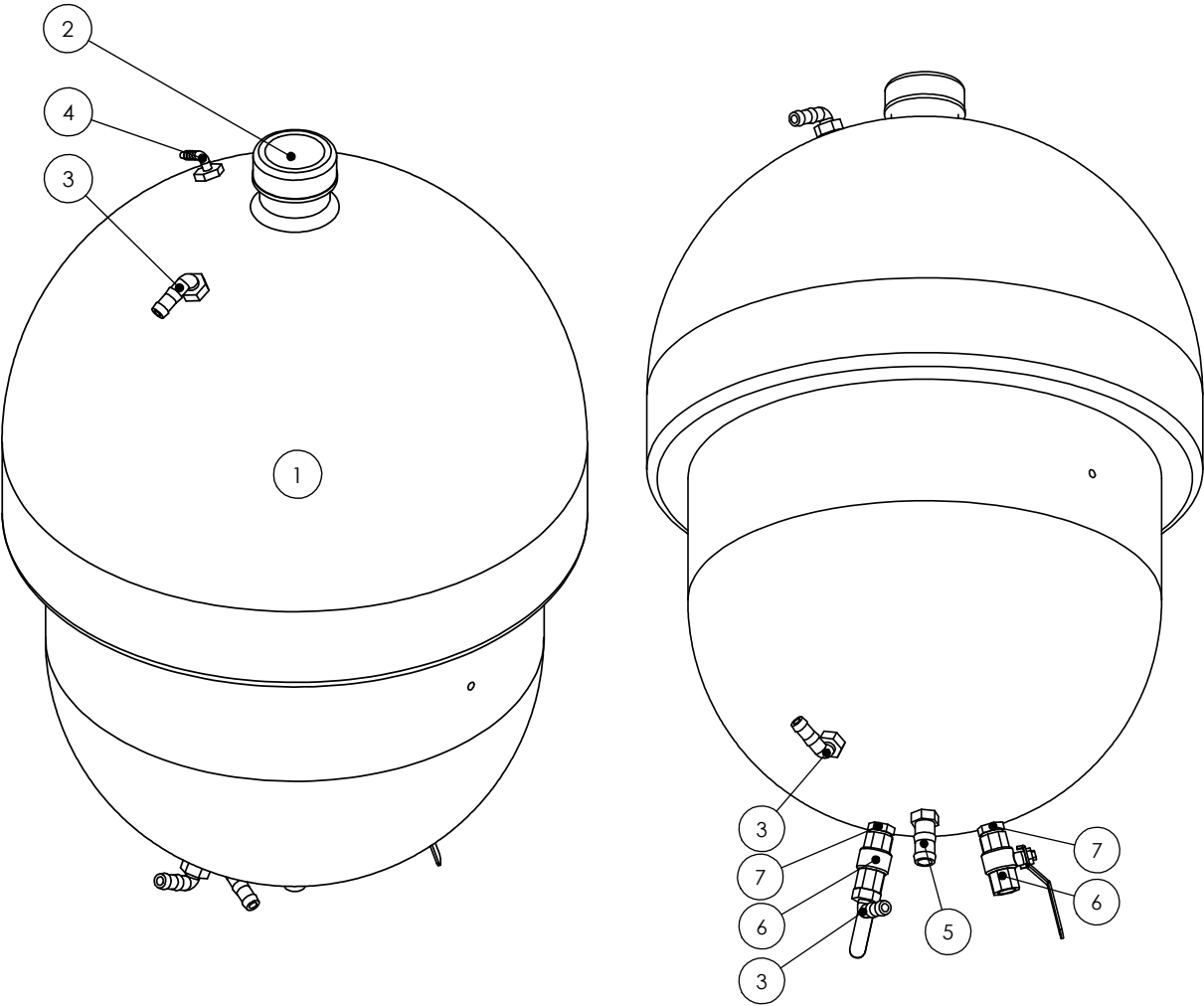
Item	Part No	Description	Quantity
5	CP4928	Brass Adapter	1
6	CPI325	Brass Cap	1
7	GA5066935	1/8" Cap Nipple	1
8	GA5050210	6mm x 1/8" Fitting	1

## EXACTA FOAM MARKER TANK FRAME



Item	Part No	Description	Quantity
1	GA4654413	Foam Tank Mounting Frame	1
2	GA5001009	16mm Washer	8
3	GA5000961	16mm Spring Washer	8
4	GA5000903	M16 x 25mm Bolt	8
5	GA5052345	75 x 75 Plastic End Cap	2

EXACTA FOAM MARKER TANK



Assembly Part No: GA490308I			
Item	Part No	Description	Quantity
1	GA5018487	100L Foam Tank	1
2	GA5009157	Cap suit Exacta Tank	1
	GA5009187	O-Ring suit Cap	1
3	HB050-90	1/2" Poly Elbow	2

Item	Part No	Description	Quantity
4	EL1214	1/2" x 1/4" Elbow	1
5	HB050/075	1/2" x 3/4" Hose Barb	1
6	GA5018309	12mm Ball Valve	1
7	GA5018310	1/2" Brass Nipple	1

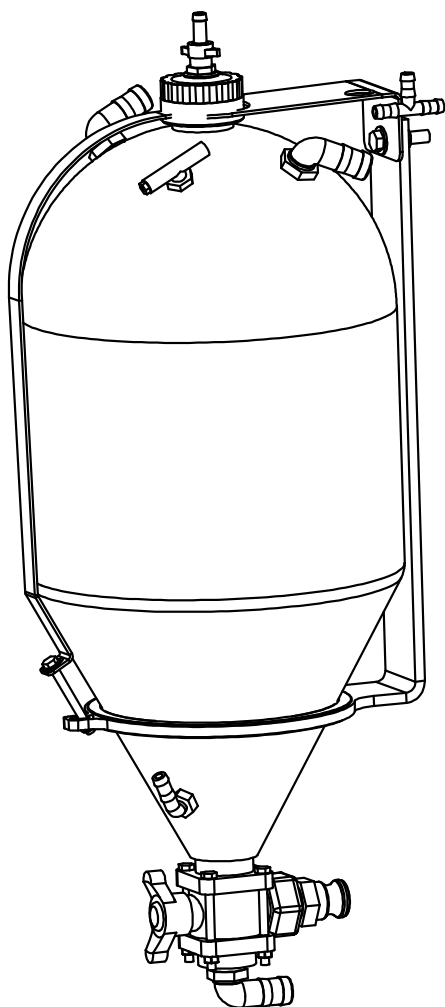
FOAM MARKER

# CHAPTER 10

## TRANSCAL

Transcal Tank . . . . . 10-2

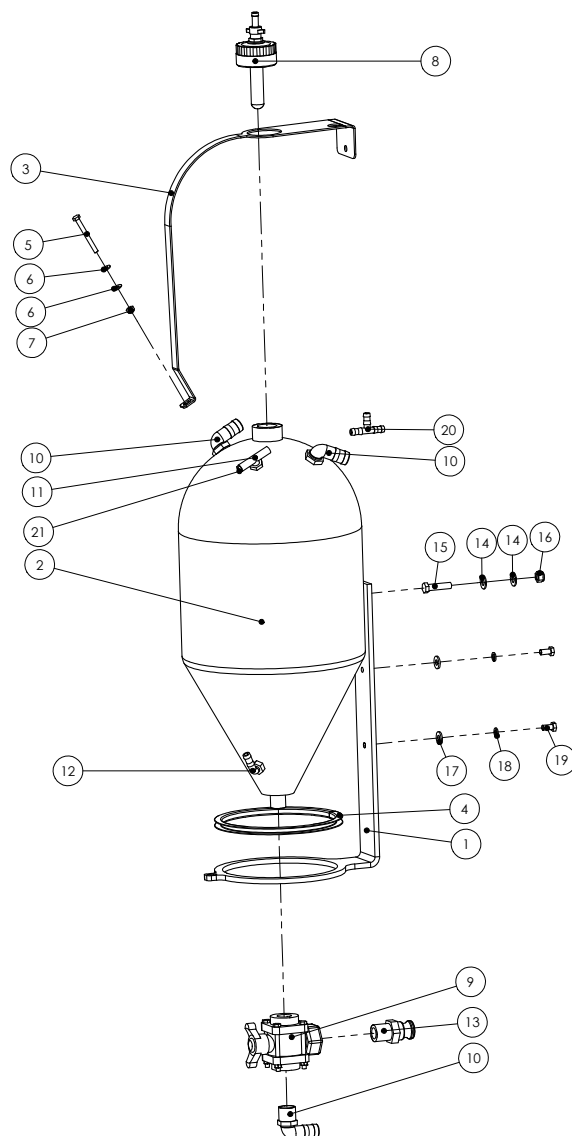
Transcal Cap Assembly . . . . . 10-3



Complete Aftermarket Kit Available Part No GA4900402-PS-P

Rev 00 15/3/10

# TRANSCAL TANK

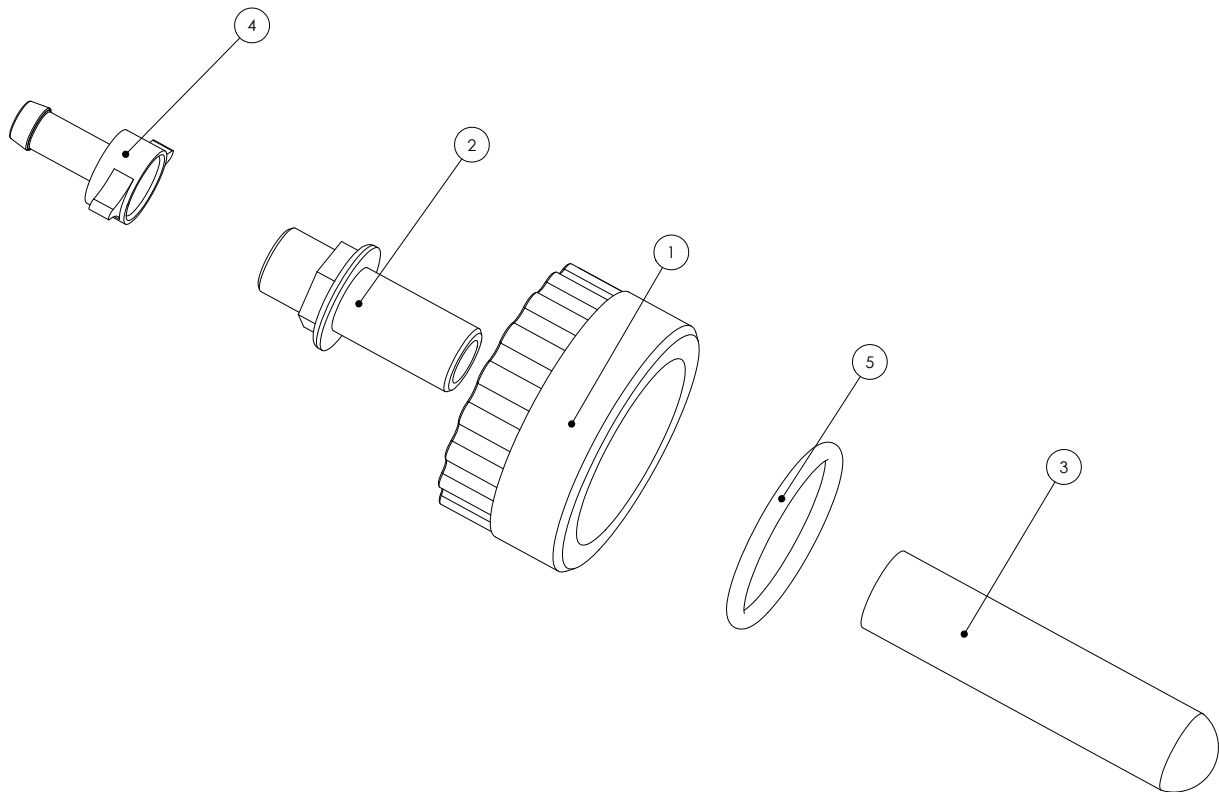

**Assembly Part No: GA4903108**

Item	Part No	Description	Quantity
1	F70608A	Transcal Mounting Bracket	1
2	GA4901047	45L Transcal Tank	1
3	F70623A	Bottle Strap	1
4		Pinch Weld Rubber	m
5	GA5004737	M8 x 70mm Bolt	1
6	GA5004883	8mm Washer	2
7	GA5004917	M8 Nyloc Nut	1
8	GA4903050	Pre-Assembled Transcal Cap	1
9	VI00BL	1" 3 Way Ball Valve	1
10	HB100-90	1" Poly Elbow	3
11	TI2T	1/2" Tee with Thread	1

Item	Part No	Description	Quantity
12	HB050-90	1/2" Poly Elbow	1
13	I00F	1" Male Adapter, Male Thread	1
14	GA5000577	12mm Washer	2
15	GA5000305	M12 x 50mm Bolt	1
16	GA5012461	M12 Nyloc Nut	1
17	GA5000117	10mm Washer	2
18	GA5000137	10mm Spring Washer	2
19	GA5006113	M10 x 20mm Bolt	2
20	TI2	1/2" Tee	1
21	GA5020695	1/8" Brass Hose Barb*	1

\* Note: Barb removed from item to act as restrictor

## TRANSCAL CAP ASSEMBLY

**Assembly Part No: GA4903050**

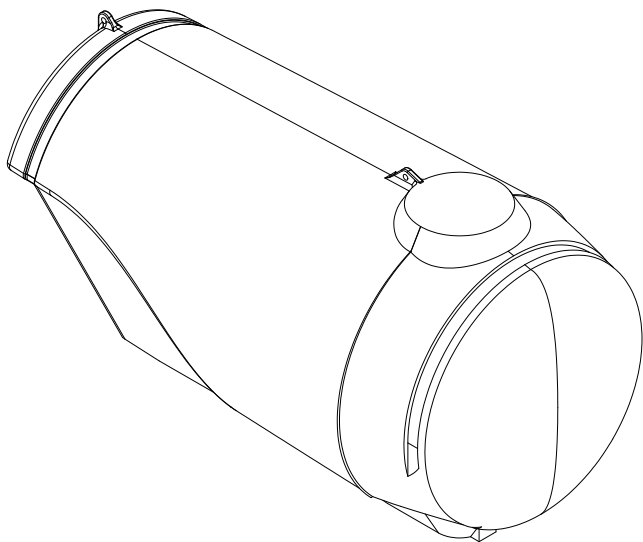
Item	Part No	Description	Quantity
1	L055A	Transcal Cap	1
2	2502021	1/2" Nipple	1
3	510110	Rinsing Nozzle	1
4	GA5012375	1/2" Brass Tail with Nut	1
5	GA5009187	O-Ring	1





# CHAPTER 11

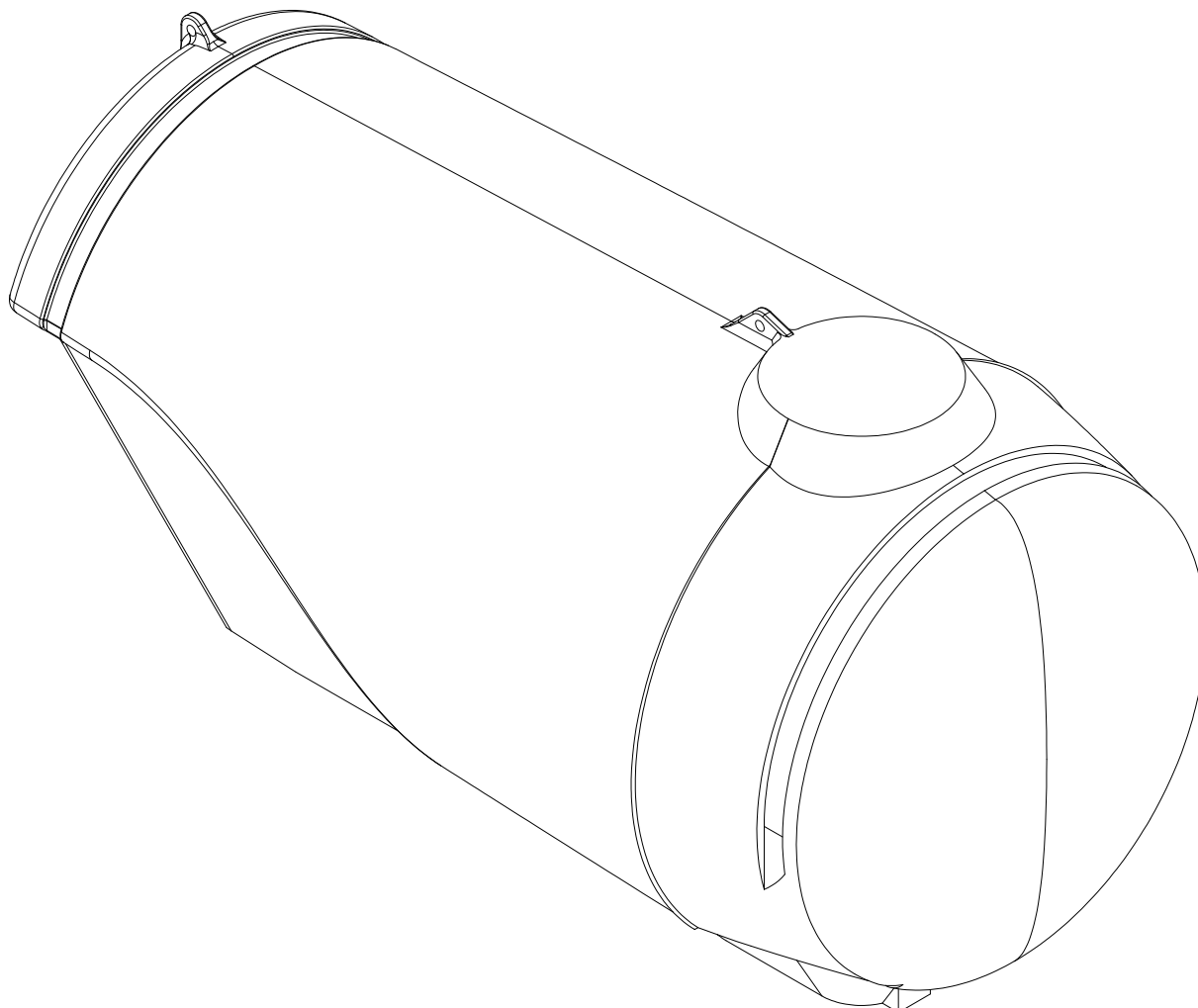
## MAIN TANK



- Tank..... 11-2
- Sump Drain..... 11-3
- Sump Drain Hose..... 11-4
- Sump Drain Hose Valve..... 11-4
- Supermix Agitator..... 11-5
- Tank Top Fittings..... 11-6
- Tank Rinse Nozzles..... 11-7
- Venturi..... 11-8
- Tank Bracing Bar..... 11-9
- Hopper Inlet..... 11-9
- Tank Fill..... 11-10
- Sight Tube..... 11-10
- Tank Straps..... 11-11
- Tank Stops..... 11-12

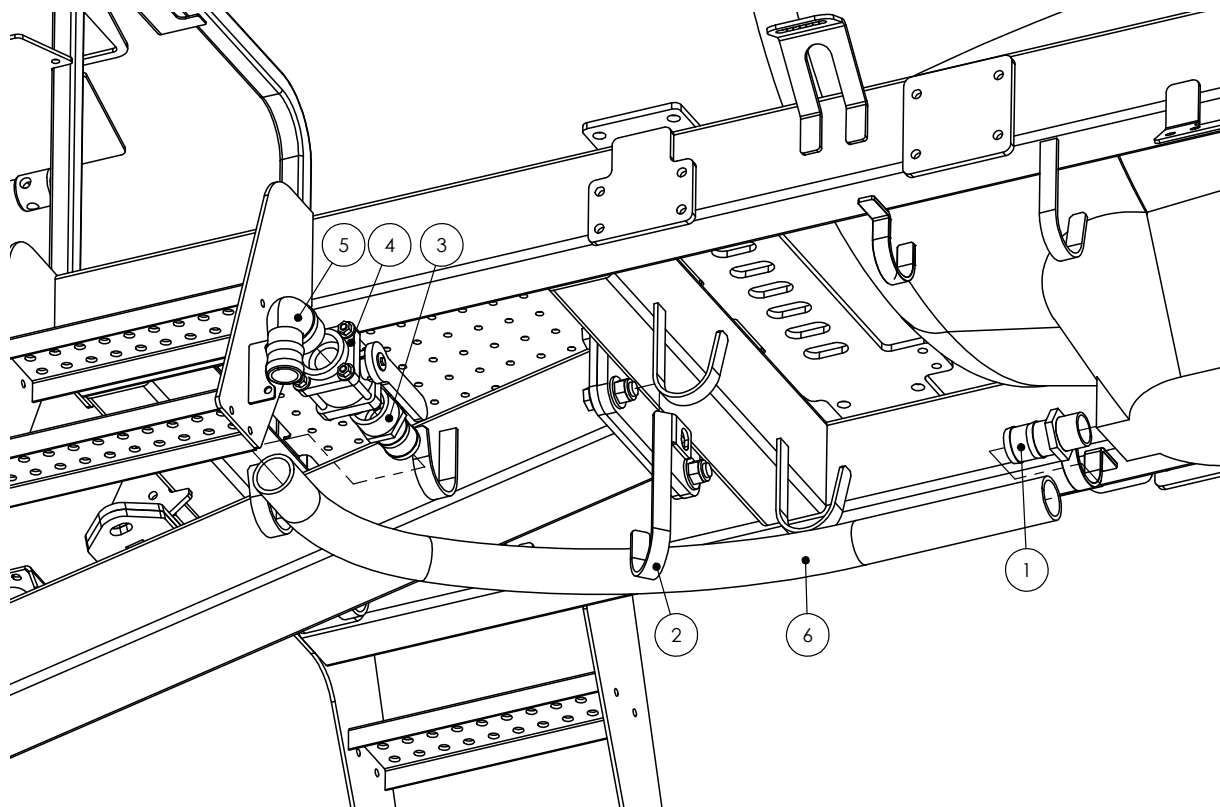
## TANK

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Part No	Description
GA5061115	3000L Bare Tank

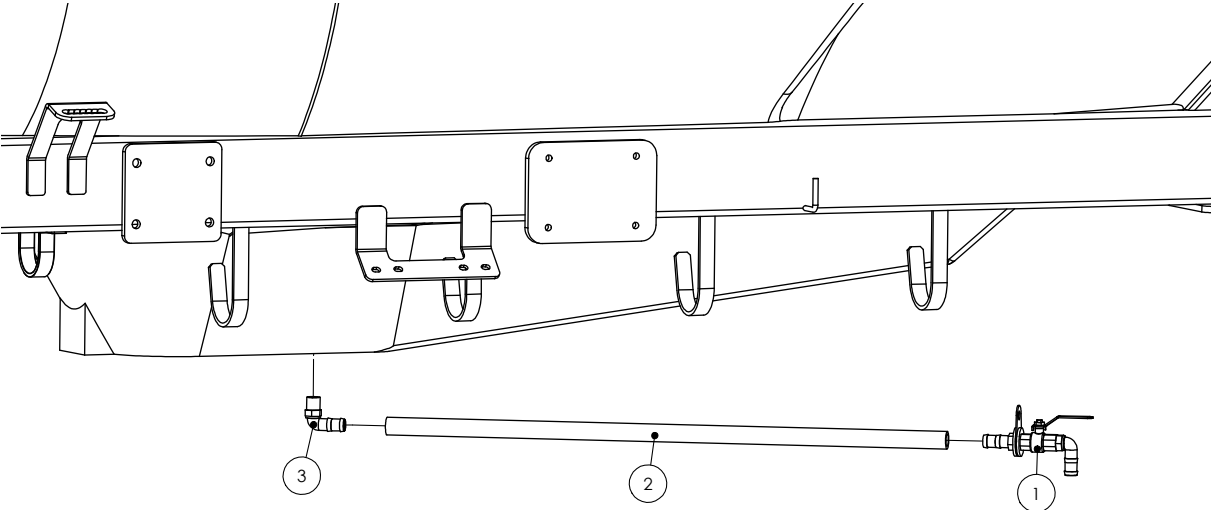
SUMP DRAIN



Item	Part No	Description	Quantity
1	HB150/200	1 1/2" x 2" Hose Barb	1
2	GA4535605	Hose Holder Hook	1
3	HB200	2" Hose Barb	1

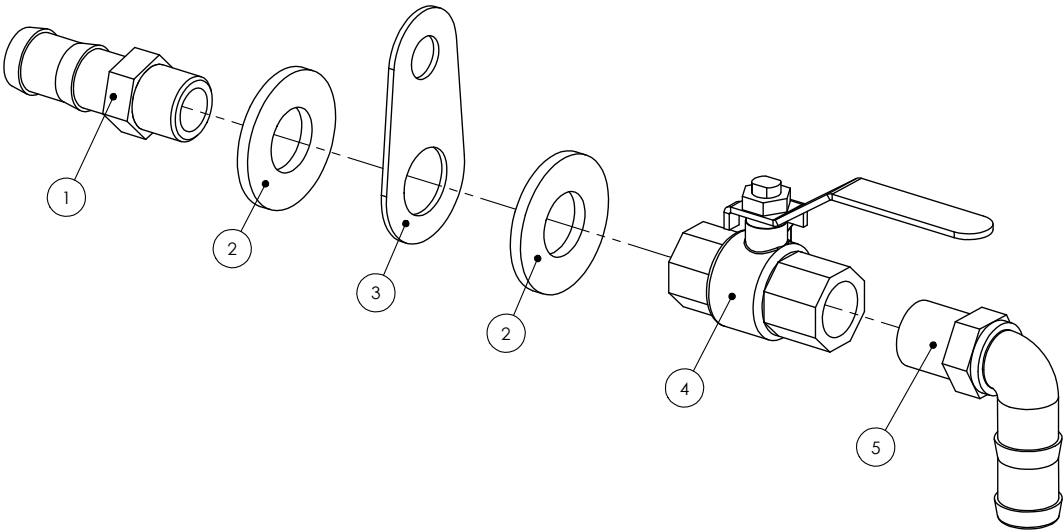
Item	Part No	Description	Quantity
4	V200	2" Bolted Ball Valve	1
5	HB200-90	2" Poly Elbow	1
6	HOS51S	2" Suction Hose	*

SUMP DRAIN HOSE



Item	Part No	Description	Quantity
1	GA4903097	Sump Drain Hose Valve	1
2	HOS20P	3/4" Pressure Hose	0.8m
3	HB050/075-90	1/2" x 3/4" Poly Elbow	1

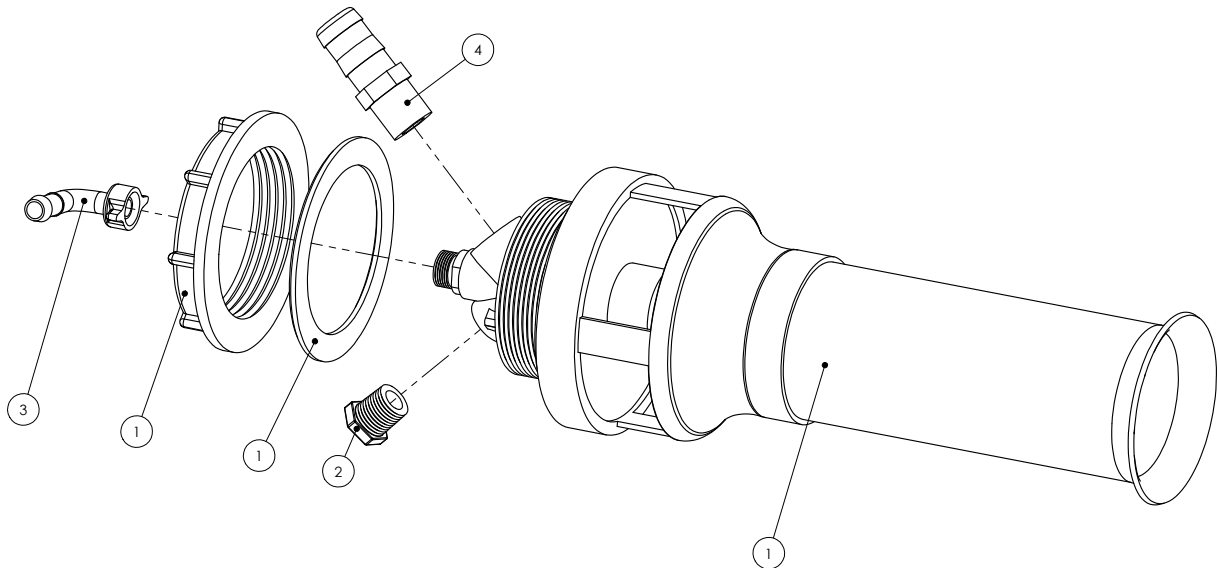
SUMP DRAIN HOSE VALVE



Assembly Part No: GA4903097			
Item	Part No	Description	Quantity
1	HB050-075	1/2" x 3/4" Hose Barb	1
2	GA5001741	20mm S/S Washer	2
3	F70565A	Stainless Steel Mounting Plate	1

Item	Part No	Description	Quantity
4	GA5018309	1/2" Ball Valve	1
5	HB050/075-90	1/2" x 3/4" Poly Elbow	1

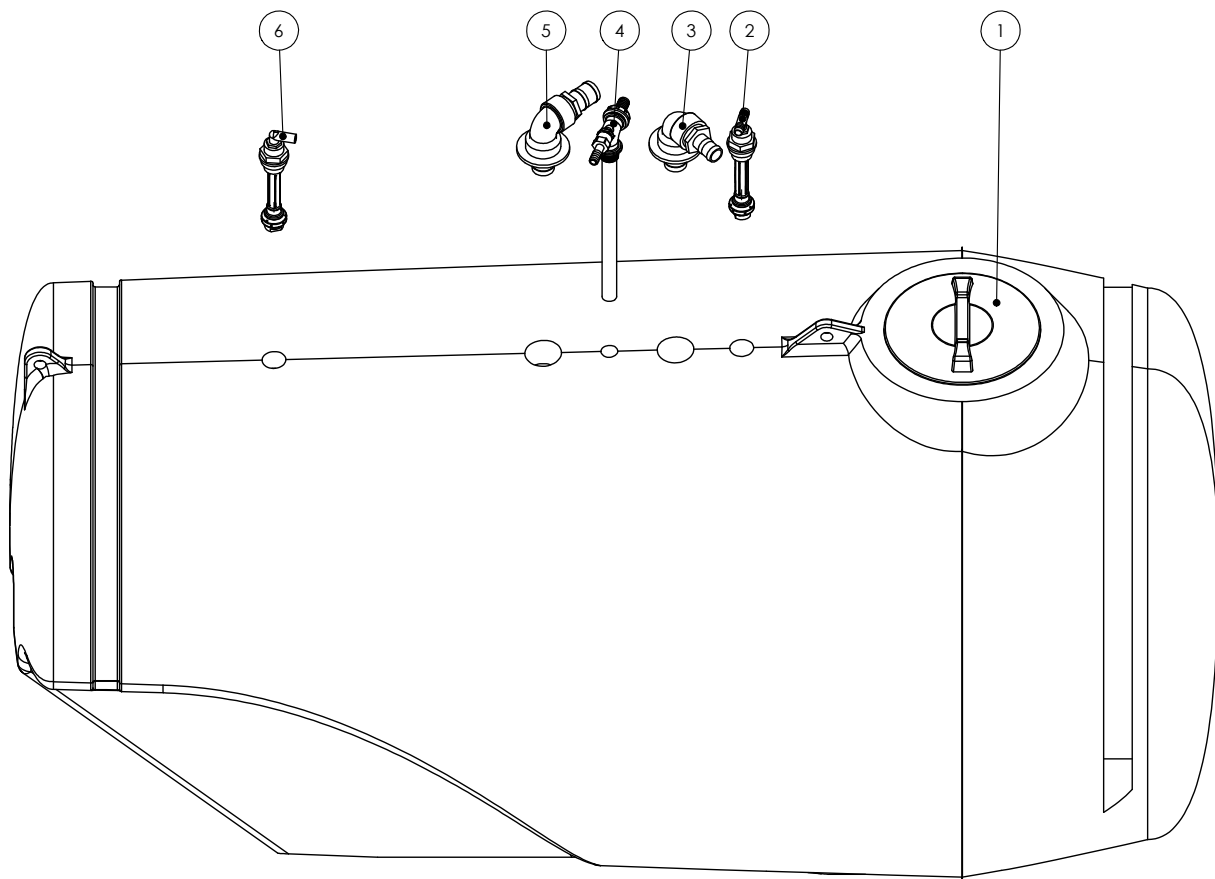
## SUPER MIX AGITATOR

**Assembly Part No: GA4903096**

Item	Part No	Description	Quantity
1	502054	Agitator Mixer Body with Nut and Rubber Seal	1
2	PLUG050	1/2" Plug	1
3	GA5012375	1/2" Brass Elbow with Fly Nut	1
4	HB075-100	3/4" x 1" Hose Barb	1

Note: Agitator removal spanner available Part No F70242A

## TANK TOP FITTINGS

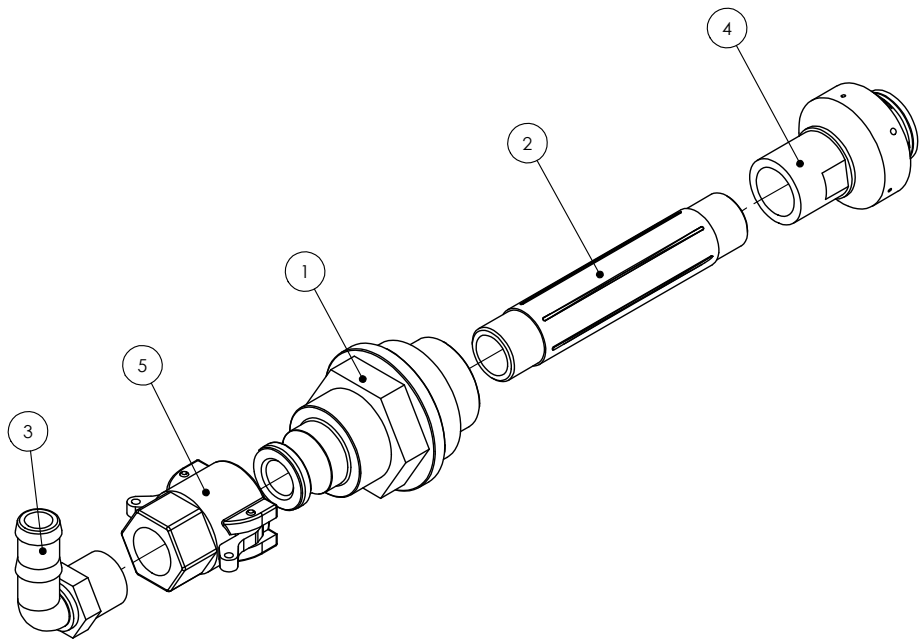


Item	Part No	Description	Quantity
1	352040	Tank Lid	1
	300120	Basket Filter	1
2	GA4901285-2	Tank Flush Nozzle (Tee)	1
3	GA4903098	Hopper Inlet	1

Item	Part No	Description	Quantity
4	GA4903086	Venturi	1
5	GA4903136	2" Tank Fill	1
6	GA4901285-1	Tank Flush Nozzle (Elbow)	1

\* Part Breakdowns shown in following pages

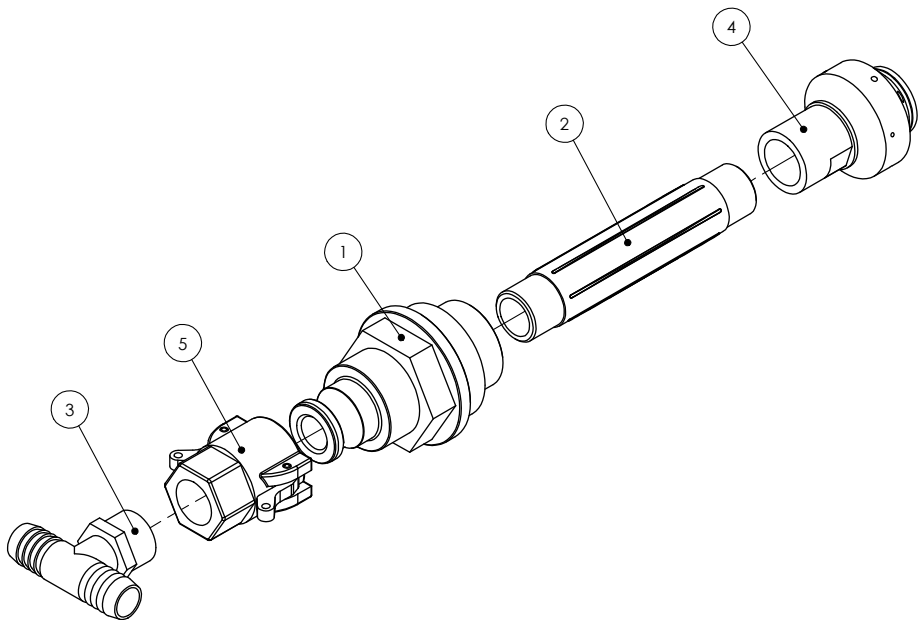
TANK FLUSH NOZZLES



Assembly Part No: GA4901285-1

Item	Part No	Description	Quantity
1	GA4572015	Tank Adapter with Camlock	1
2	NIP075-06	3/4" x 6" Poly Nipple	1
3	HB075-90	3/4" Poly Elbow	1

Item	Part No	Description	Quantity
4	B55270-3/4-18	Rinse Nozzle	1
5	75D	3/4" Female Coupler	1

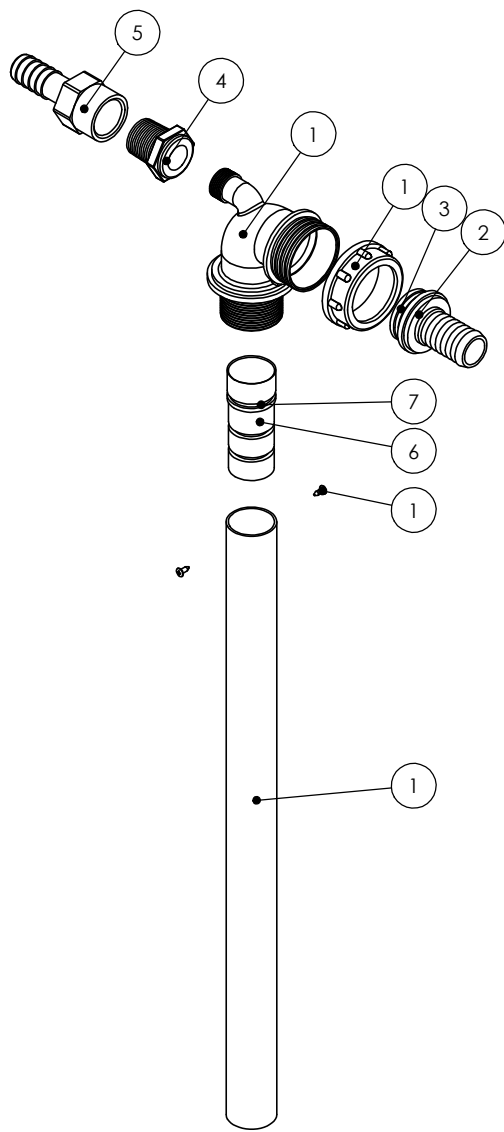


Assembly Part No: GA4901285-2

Item	Part No	Description	Quantity
1	GA4572015	Tank Adapter with Camlock	1
2	NIP075-06	3/4" x 6" Poly Nipple	1
3	GA5018776	3/4" Poly Tee	1

Item	Part No	Description	Quantity
4	B55270-3/4-18	Rinse Nozzles	1
5	75D	3/4" Female Coupler	1

VENTURI



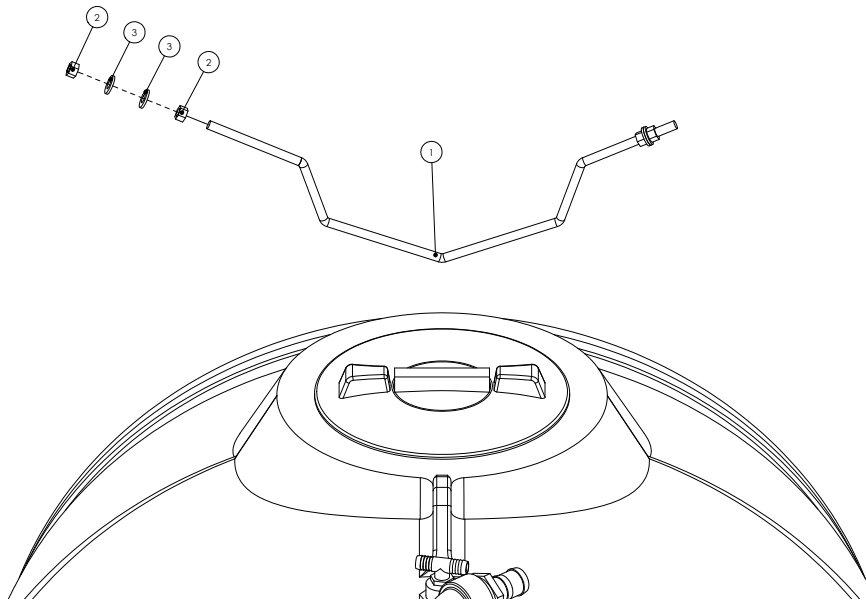
Assembly Part No: GA4903086			
Item	Part No	Description	Quantity
1	500232	Venturi Filler	1
2	106625	Hose Tail	1
3	G10060	O-Ring M3 x 29mm	1
4	RB075050	Poly Reducing Bush	1
5	HBF075	3/4" Female Hose Barb	1

Item	Part No	Description	Quantity
6	MACH0022	Venturi Jet	1
7	GA5049125	O-Ring Inperial BS213	1
8	GA5050205*	32mm Lay Flat Hose (blue) 0.405m	
9	GA5007235*	Cobra Clamp	1

\* Not shown in diagram



## TANK BRACING BAR



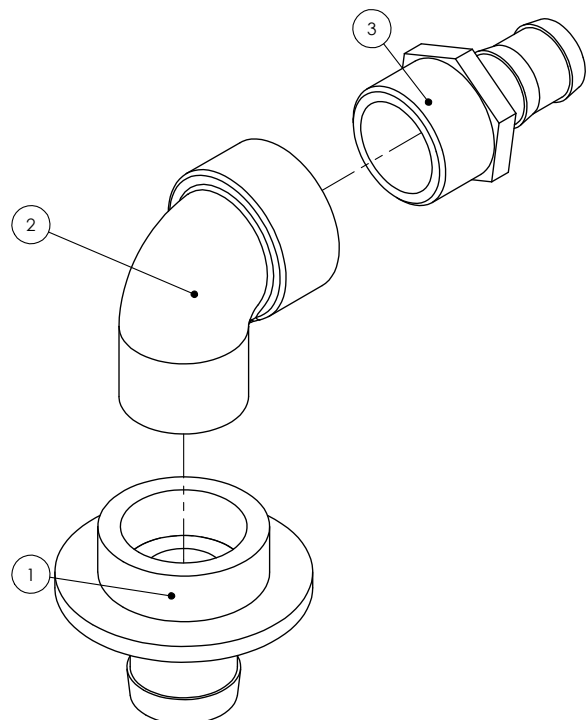
Item	Part No	Description	Quantity
1	GA4672885	Tank Bar	1
2	GA5000581	M12 S/S Nut	4
3	GA5000577	12mm S/S Washer	4

## HOPPER INLET

**Assembly Part No: GA4903098**

Item	Part No	Description	Quantity
1	L026A	Tank Flange	1
2	SL200-90	2" Elbow	1
3	HB200-150	1 1/2" Poly Hose Barb	1
4	HOS50PVC	50mm PVC Hose*	1.55mm
5	GA5003325	Hose Clamp*	1
6	GA5000529	1" x 12g Screw*	3

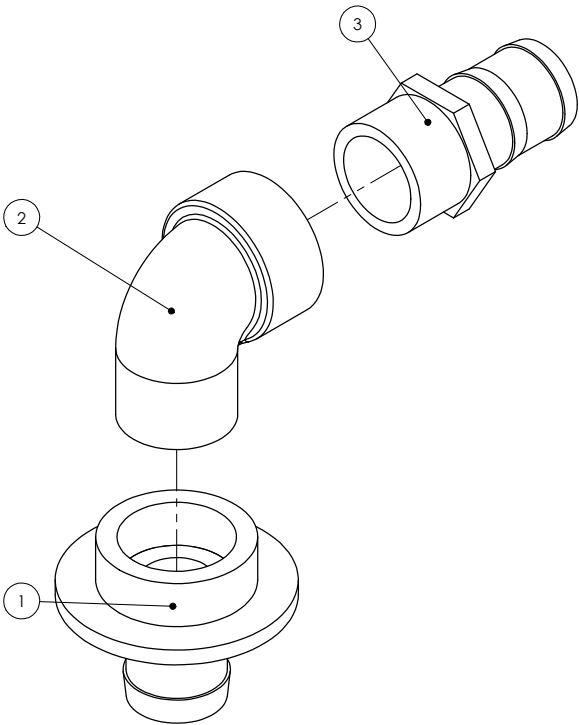
\* Not shown in diagram



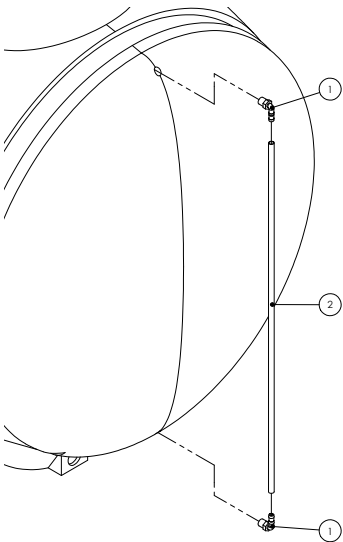
TANK FILL

Assembly Part No: GA4903136			
Item	Part No	Description	Quantity
1	L026A	Tank Flange	1
2	SL200-90	2" Elbow	1
3	HB200	2" Poly Hose Barb	1
4	HOS50PVC	50mm PVC Hose*	1.55mm
5	GA5003325	Hose Clamp*	1
6	GA5000529	1" x 12g Screw*	3

\* Not shown in diagram



SIGHT TUBE



Item	Part No	Description	Quantity
1	HB050-90	1/2" Poly Elbow	2
2	HOS12sight	12mm Sight Tube Hose	m

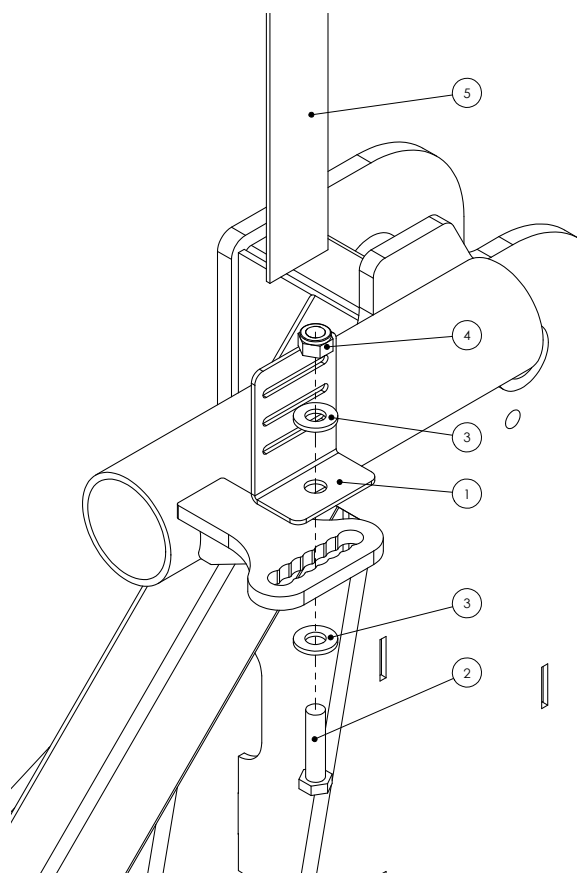
## TANK STRAPS

Item	Part No	Description	Quantity
1	F70127A	Tank Strap Mountign Bracket	4
2	GA5000331	M12 x 50mm Bolt	4
3	GA5000577	12mm Washer S/S	8
4	GA5012461	M12 Nyloc Nut	4
5	GA5003859	50mm Wide Tank Strap	*1
6	GA5050355	Round Plastic Plug*2	4

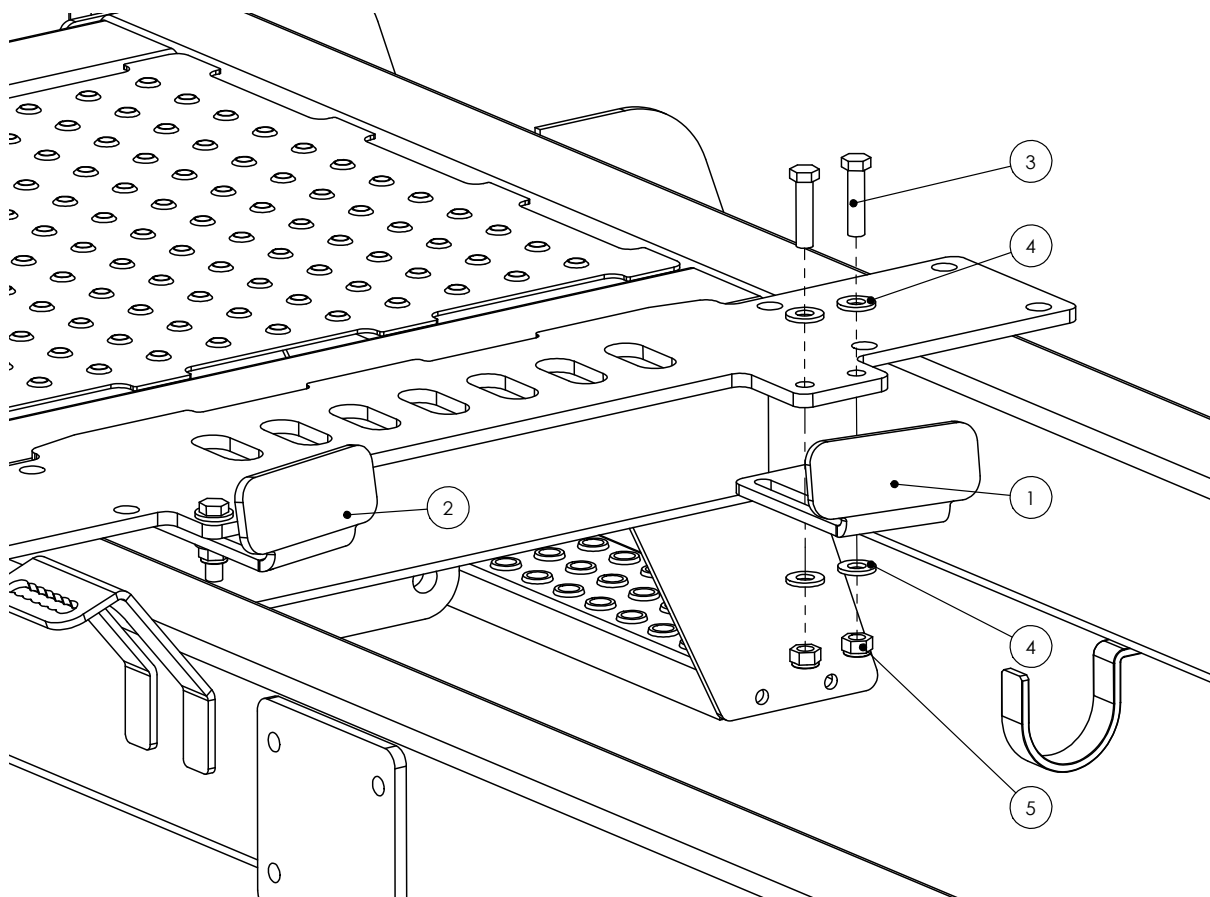
\*1 Quantity needs to be specified when ordering

\*2 Not shown in diagram

Note: Front tank strap attachment method is the same as the rear



## TANK STOPS

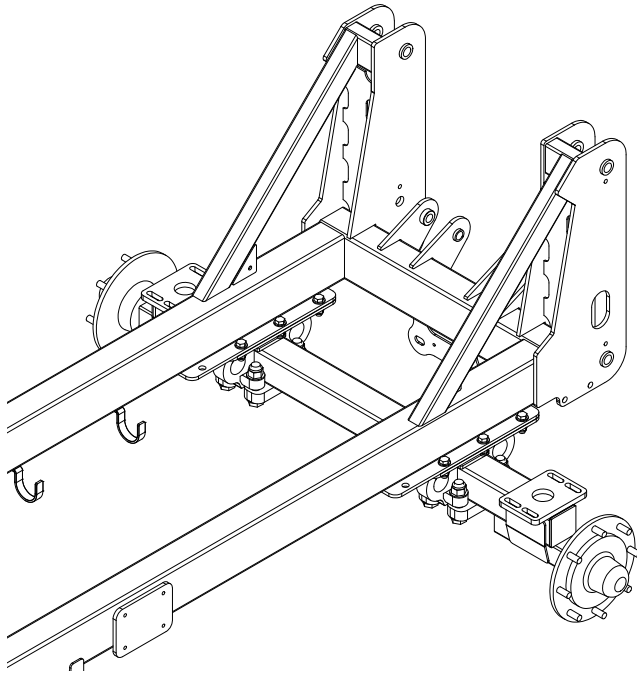


Item	Part No	Description	Quantity
1	GA4522515	Right Tank Stop	1
2	GA4522510	Left Tank Stop	1
3	GA5000331	M12 x 50mm Bolt	4

Item	Part No	Description	Quantity
4	GA5000577	12mm Washer S/S	8
5	GA5012461	M12 Nyloc Nut	4

# CHAPTER 12

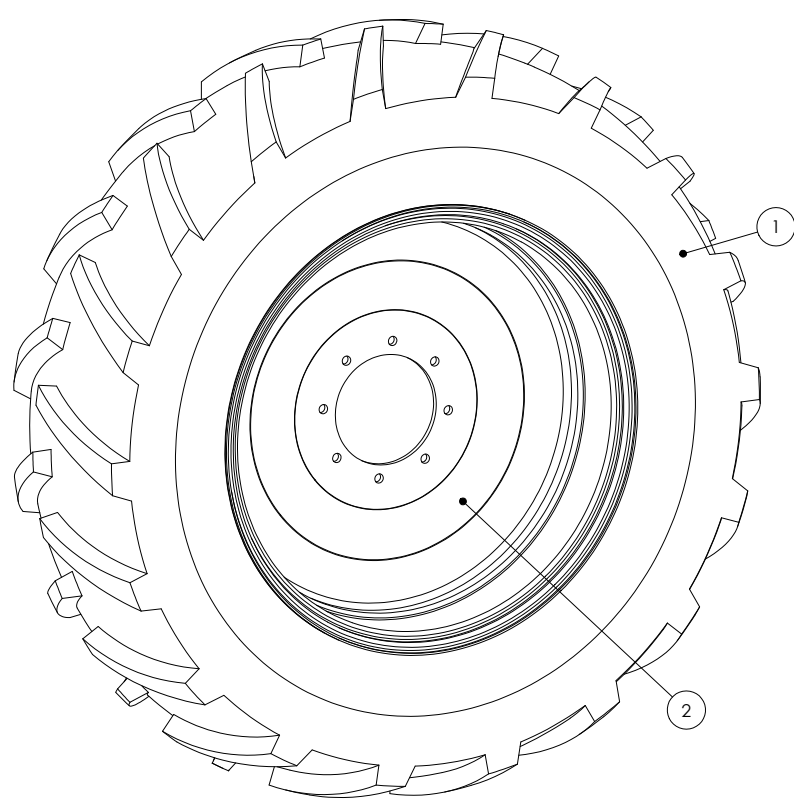
## WHEELS, AXLES & MUDGUARDS



Wheels & Tyres.....	12-2
Mudguard Kits.....	12-3
Wheels Speed Sensor.....	12-4
Axles.....	12-5
Hubs.....	12-6

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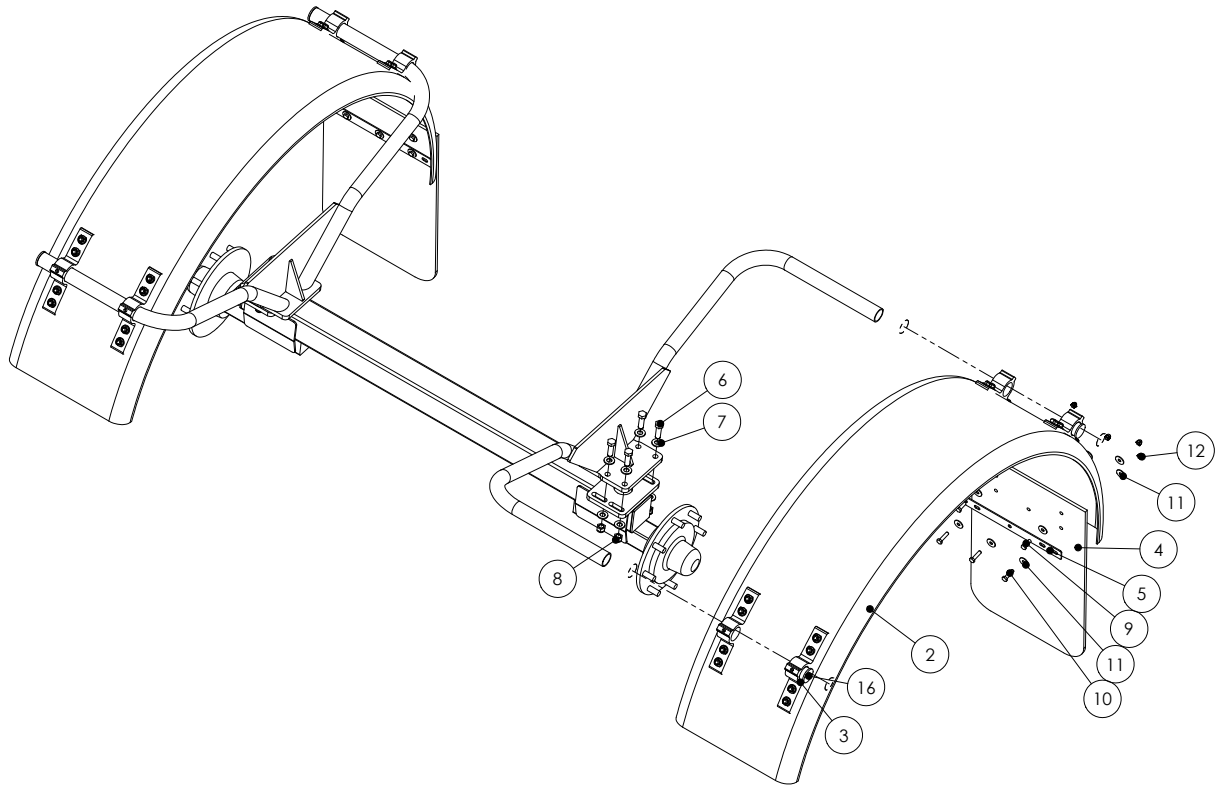
# WHEELS & TYRES



**Complete 16.9 x 34 Wheel & Tyre (GA4901406)**

Item	Part No	Description	Quantity
1	GA5016337	Tyre 16.9 x 34	2
2	GA5020685	Wheel (Rim) DW 15 x 34	2

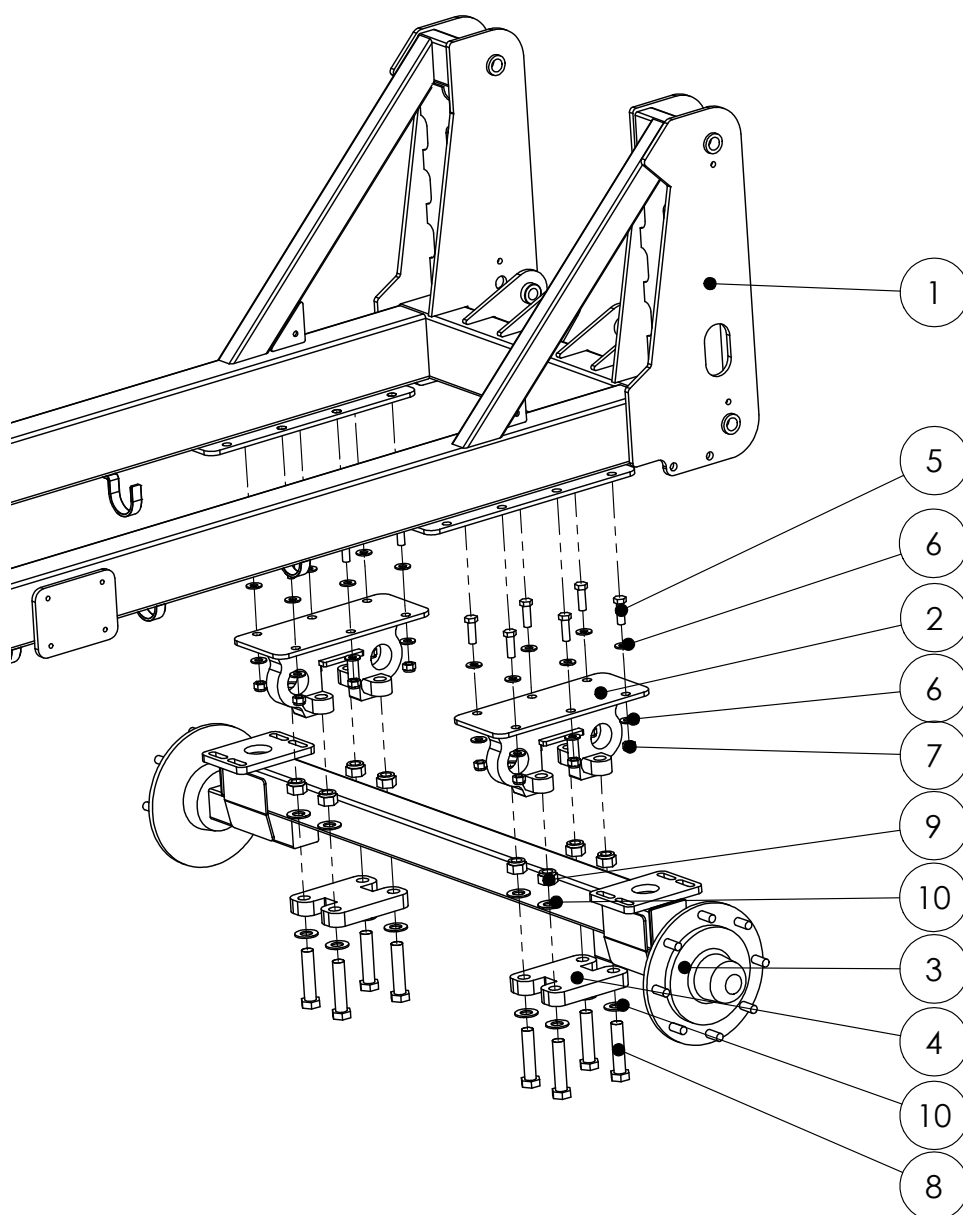
## MUDGUARD KITS


**Kit Part No: GA4903855**

Item	Part No	Description	Quantity
1	GA4657815	Mudguard Bracket	2
2	GA5003453	Poly Mudguard (R900x470W)	2
3	GA5020450	Plastic Mudguard Mounting	
		Bracket and Mounting Bolts	8
4	GA5011949	Goldacres Mudflap	2
5	GA4502725	Stiffener for Mudflap	2
6	GA5000931	M16 x 50mm Bolt	8

Item	Part No	Description	Quantity
7	GA5001043	16mm Washer	16
8	GA5001029	M16 Nyloc Nut	8
9	GA5065455	M10 x 30mm Bolt	4
10	GA5006055	M10 x 40mm Bolt	6
11	GA5002627	3/8" Washer	20
12	GA5011131	M10 Dome Nut	10

## AXLES

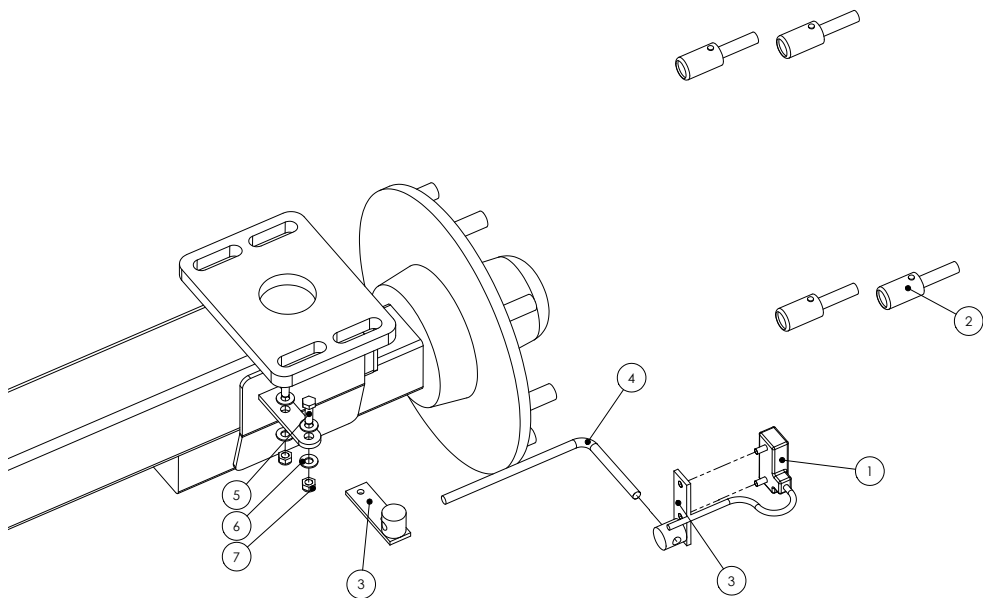


Item	Part No	Description	Quantity
1	GA4657800	Main Chassis	1
2	GA4657845	Axle Carrier	2
3	GA4657820	1.6m Axle	1
	GA4657815	1.8m Axle (Standard Fitment)	1
	GA4657825	2.0m Axle	1
4	GA4632050	Axle Retainer Plate	2

Item	Part No	Description	Quantity
5	GA5000933	M16 x 50mm Bolt	12
6	GA5001043	16mm Washer	24
7	GA5001029	M16 Nyloc Nut	12
8	GA5006149	1" UNC x 4 1/2" Bolt	8
9	GA5012439	1" UNC Nyloc Nut	8
10	GA5017659	1" Washer	16



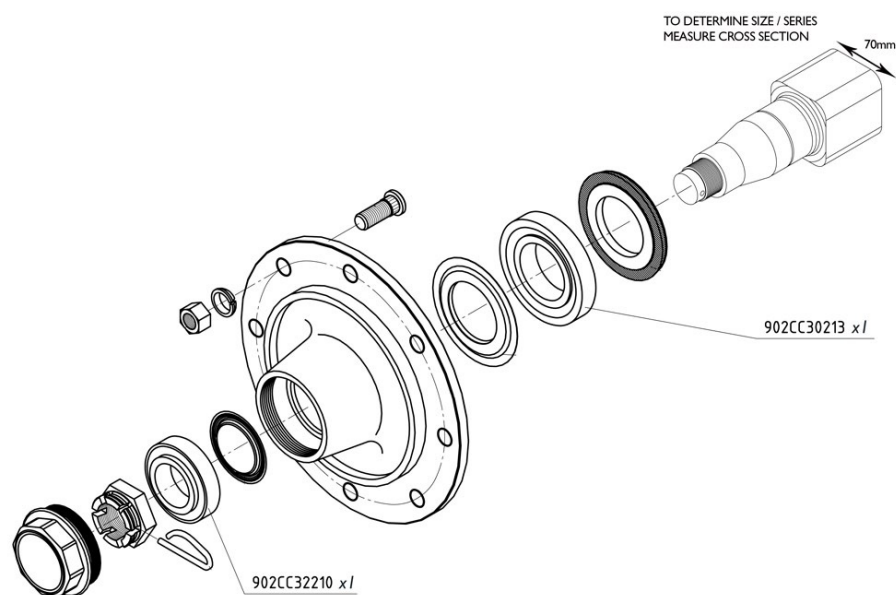
# WHEELS SPEED SENSOR



Kit Part No: 0630171152			
Item	Part No	Description	Quantity
1	063171149	Wheel Speed Sensor with 7 1/2" Sensor Cable	1
2	0630159402	Black Wheel Magnet	2
2	0630159403	Red Wheel Magnet	2
3	0630159483	Mounting Adapter	2

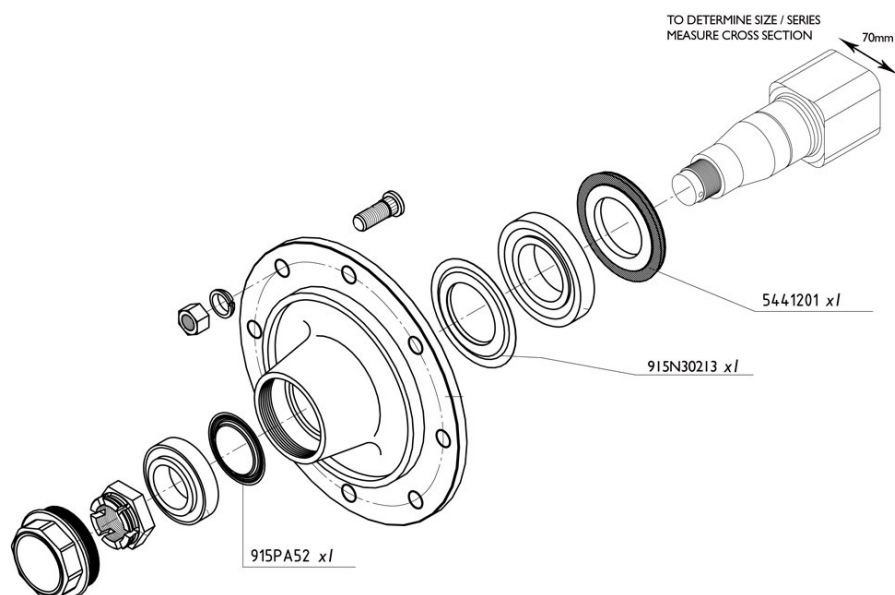
Item	Part No	Description	Quantity
4	1070159472	Mounting Rod	1
5	GA5004713	M8 x 25mm Bolt	2
6	GA5003643	8mm Washer	4
7	GA5004917	M8 Nyloc Nut	2

HUBS



70 Series Bearing Kit		
Part No	Description	Quantity
GA5052105	70 Series Bearing Kit	1

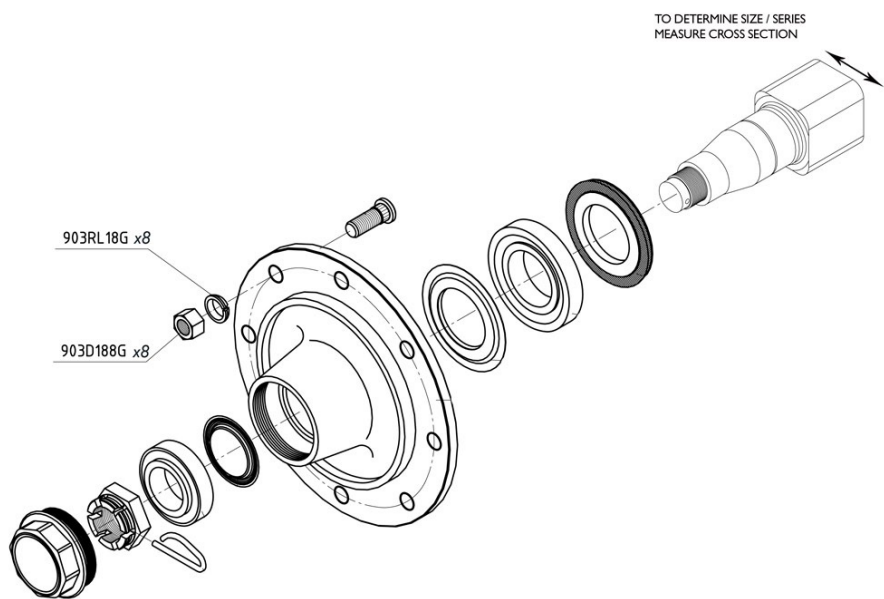
Bearing Kit Contents		
Part No	Description	Quantity
902CC30213	Inner Hub Bearing	1
902CC32210	Outer Hub Bearing	1



70 Series Seal Kit		
Part No	Description	Quantity
GA5052100	70 Series Seal Kit	1

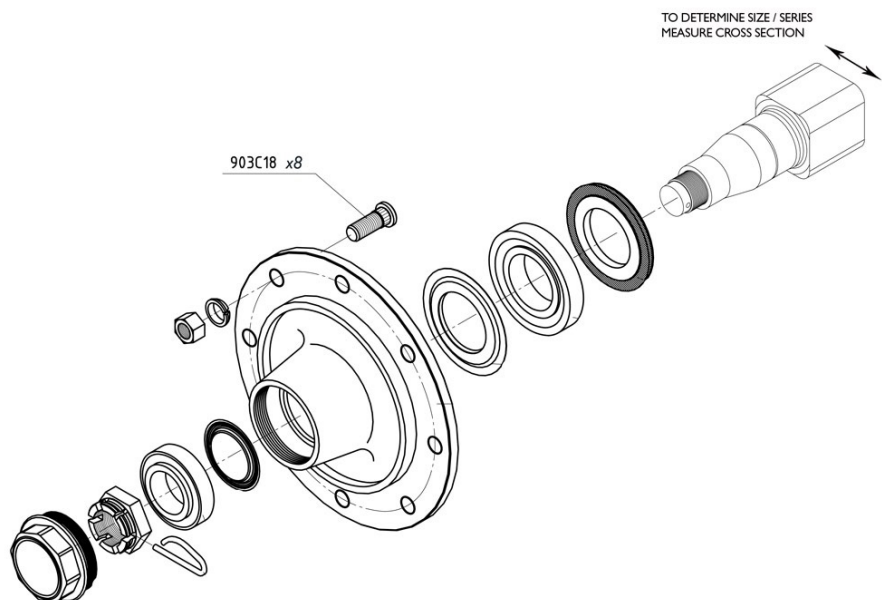
Seal Kit Contents		
Part No	Description	Quantity
GA5066406	Heavy Duty Hub Seal	1
915N30213	Inner Bearing Slinger	1
915PA52	Outer Bearing Slinger	1

HUBS



70 Series Nut Kit		
Part No	Description	Quantity
GA5052150	70 Series Nut Kit	1

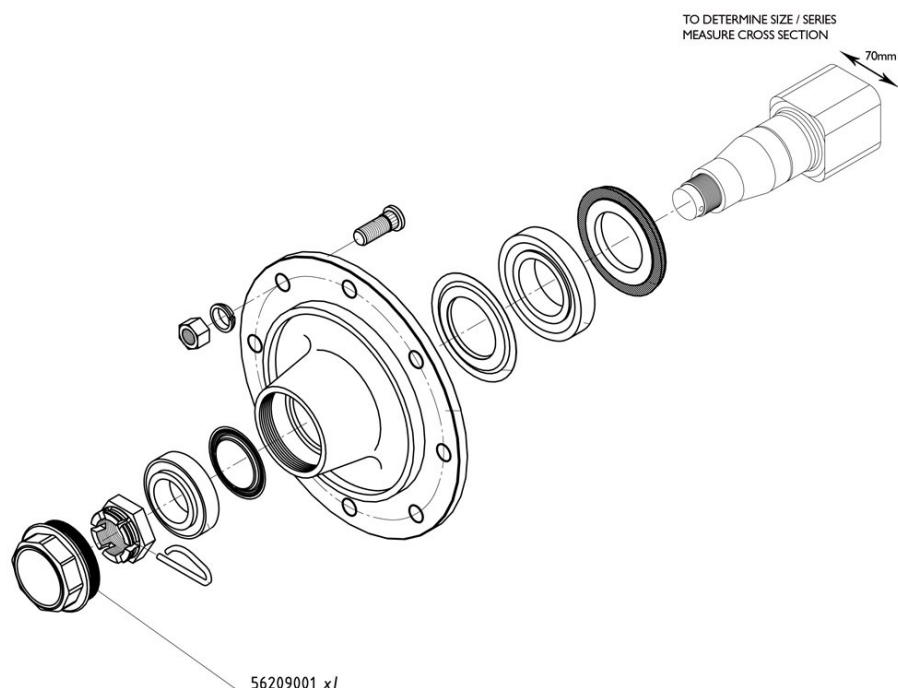
Nut Kit Contents		
Part No	Description	Quantity
903RL18G	Wheel Nut Washer	8
903D188G	Wheel Nut	8



70 Series Stud Kit		
Part No	Description	Quantity
GA5052155	70 Series Stud Kit	1

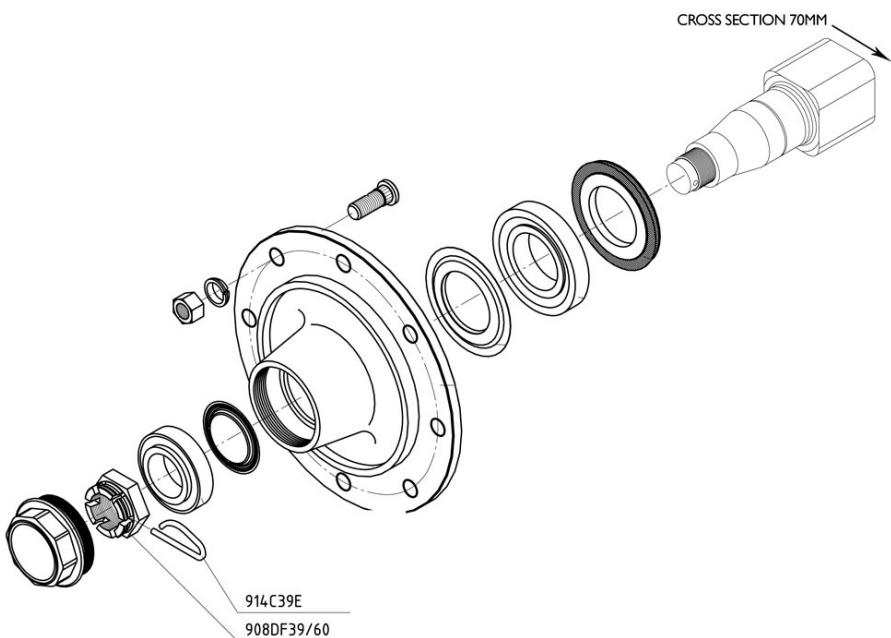
Stud Kit Contents		
Part No	Description	Quantity
903C18	Wheel Stud	8

HUBS



70 Series Cap Kit		
Part No	Description	Quantity
GA5052110	70 Series Cap Kit	1

Cap Kit Contents		
Part No	Description	Quantity
56209001	Dust Cap	1

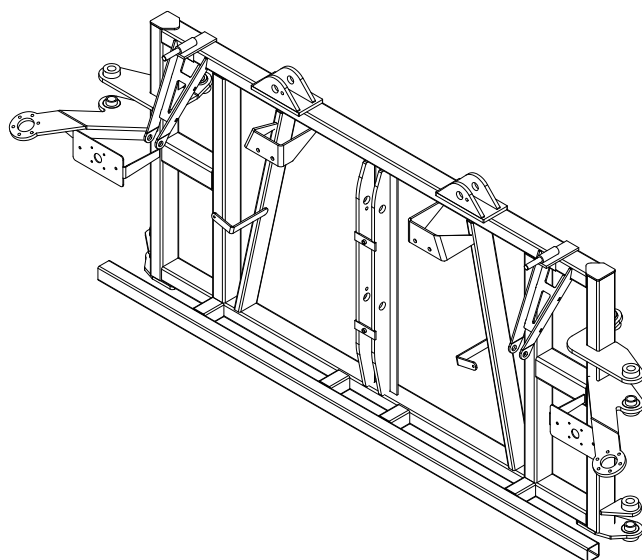


70 Series Crown Nut Kit		
Part No	Description	Quantity
GA5052115	70 Series Crown Nut Kit	1

Crown Nut Kit Contents		
Part No	Description	Quantity
908DF39/60	Crown Nut	1
914CE9E	Retainer Clip	1

# CHAPTER 13

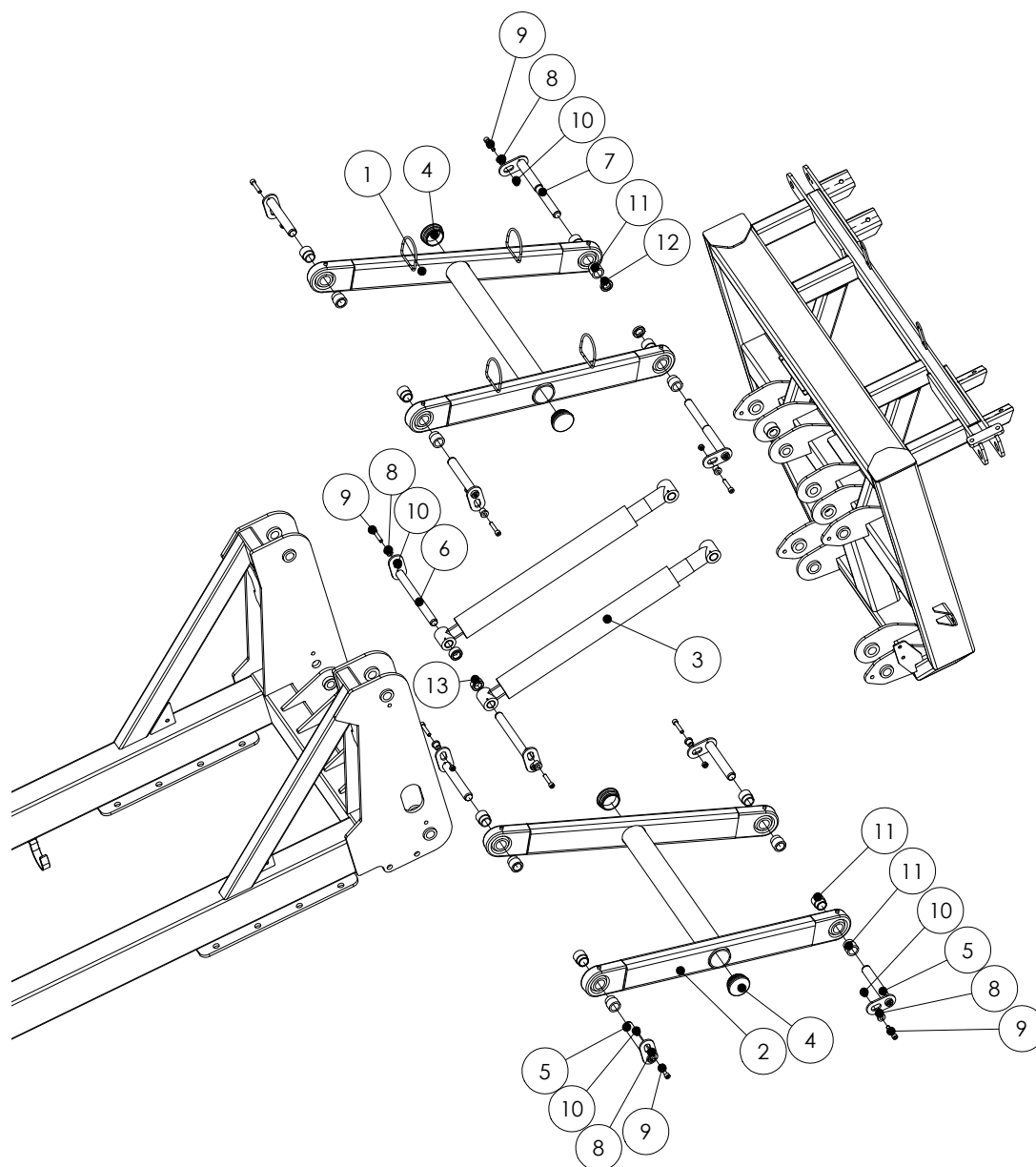
## BOOM CENTRE AND PARALIFT REAR



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## PARALIFT ARMS & MOUNTING HARDWARE



Item	Part No	Description	Quantity
1	GA4657850	Top Paralift Arm	1
2	GA4657855	Bottom Paralift Arm	1
3	GA5070075	Hydraulic Cylinder	2
4	GA5050355	Plastic Tube Insert	4
5	GA5066655	Short Paralift Pin	6
6	GA5066645	Long Cylinder Only Pin*	2
7	GA5066675	Long Cylinder & Arm Pin*	2

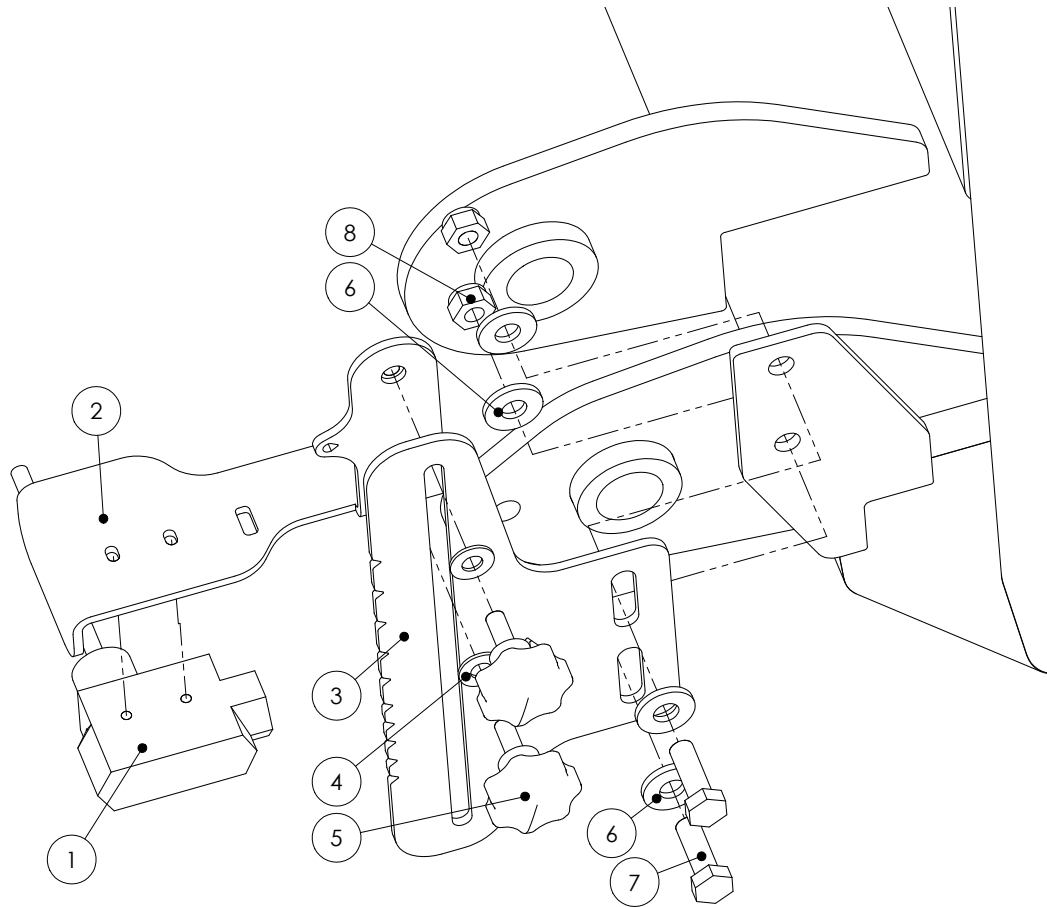
Item	Part No	Description	Quantity
8	MACH0152	Bolt Spacer Bush*	10
9	GA5051470	M12 x 50mm Cap Screw*	10
10	GA5012461	M12 Nyloc Nut*	10
11	MACH0134	Paralift Arm Spacer Bush*	16
12	GA4572135	Narrow Cylinder Bush*	2
13	GA4562190	Wide Cylinder Bush*	2

\* A complete pin and bush kit is available containing these parts, Kit Part No GA5066670

Note: Grease Nipples also used on some pivots Part No GA5050450

Pin Head Covers also available Part No GA5067885

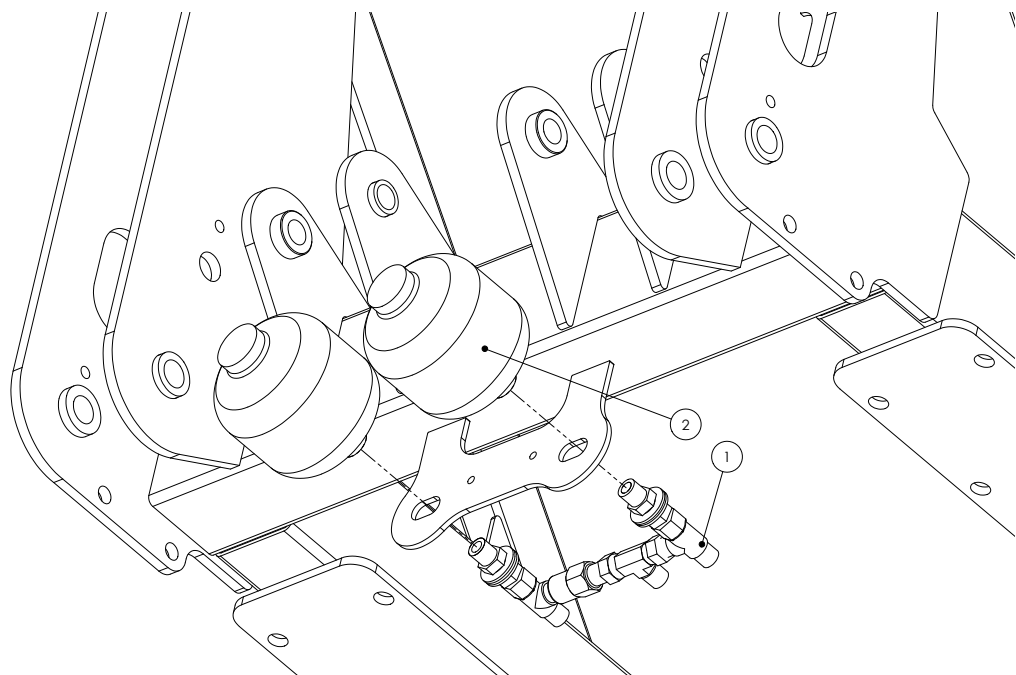
## BOOM HEIGHT LIMIT SWITCH



Item	Part No	Description	Quantity
1	GA5012129	Limit Switch	1
2	GA4654161	Adjustable Bracket	1
3	GA4522290	Chassis Bracket	1
4	GA5004913	8mm Washer	2

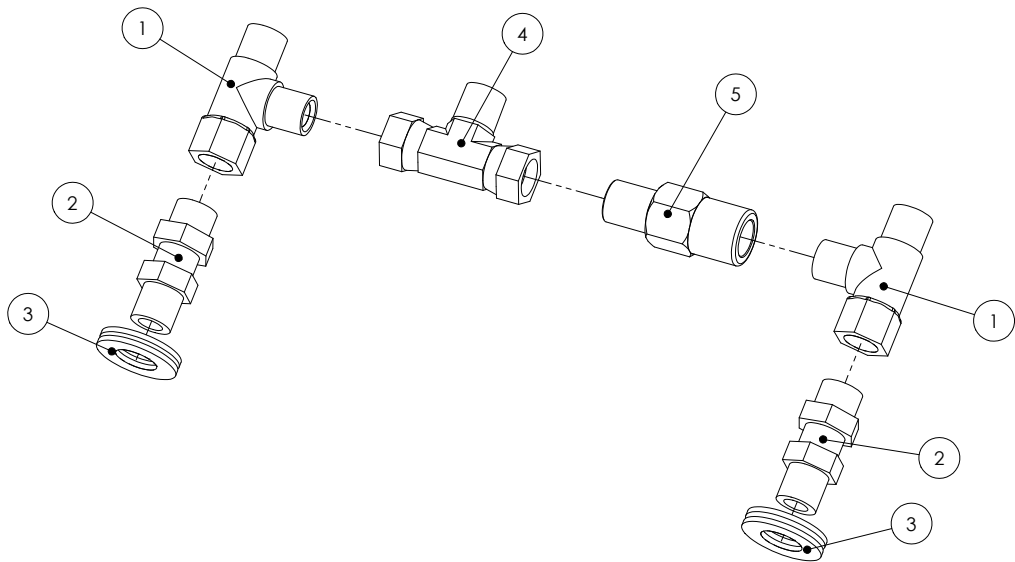
Item	Part No	Description	Quantity
5	GA5067080	M8 x 20mm Plastic Knob	2
6	GA5000139	10mm Washer	4
7	GA5065455	M10 x 30mm Bolt	2
8	GA5000141	M10 Nyloc Nut	2

# HYDRAULIC ACCUMULATORS



Item	Part No	Description	Quantity
1	GA4903058	Accumulator Manifold	1
2	GA5007790	Accumulator (27 BAR)	2

# ACCUMULATOR MANIFOLD

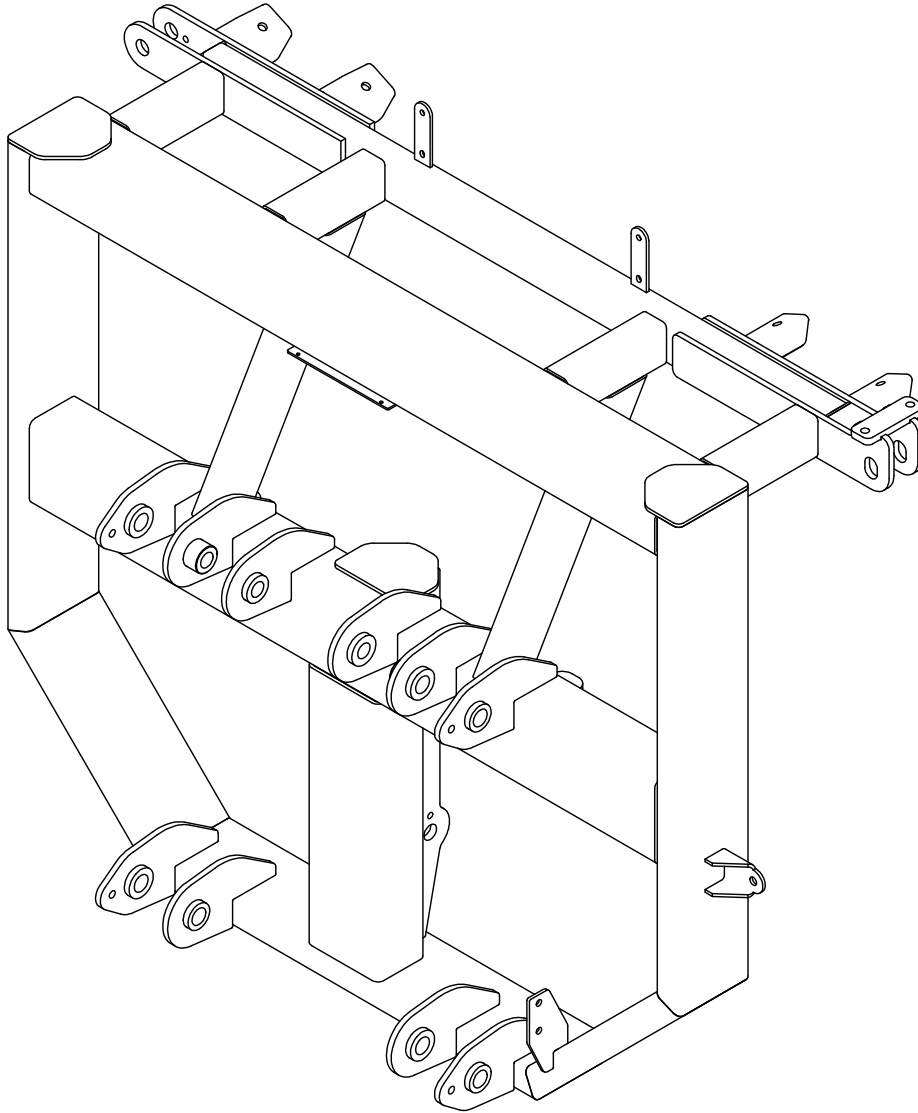


Assembly Part No: GA4903058			
Item	Part No	Description	Quantity
1	S167-080808	Hydraulic Tee	2
2	S44-0808	Hydraulic Nipple	2
3	GA5001045	3/4" Washer	4

Item	Part No	Description	Quantity
4	S83-3	Hydraulic Tee	1
5	GA4572110	Hydraulic Fitting	1



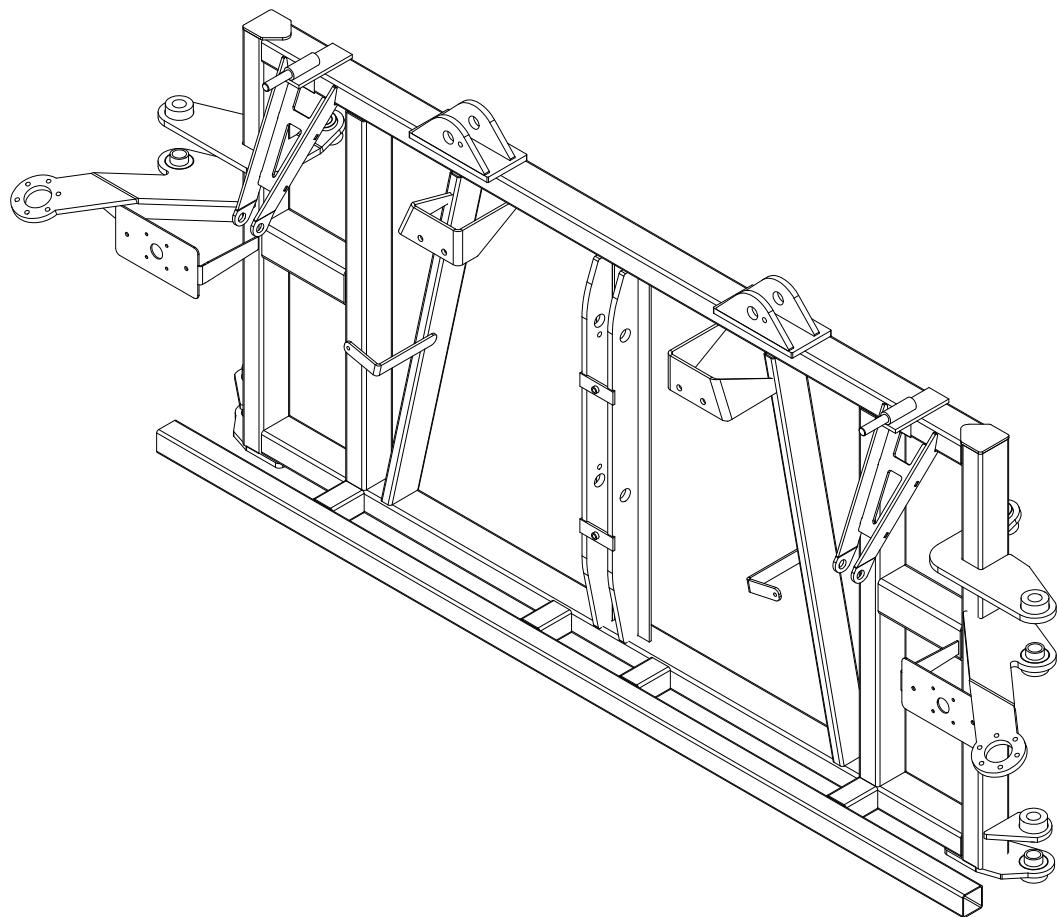
## PARALIFT REAR



Part No	Description	Quantity
GA4654121	Delta Boom Paralift Rear	1

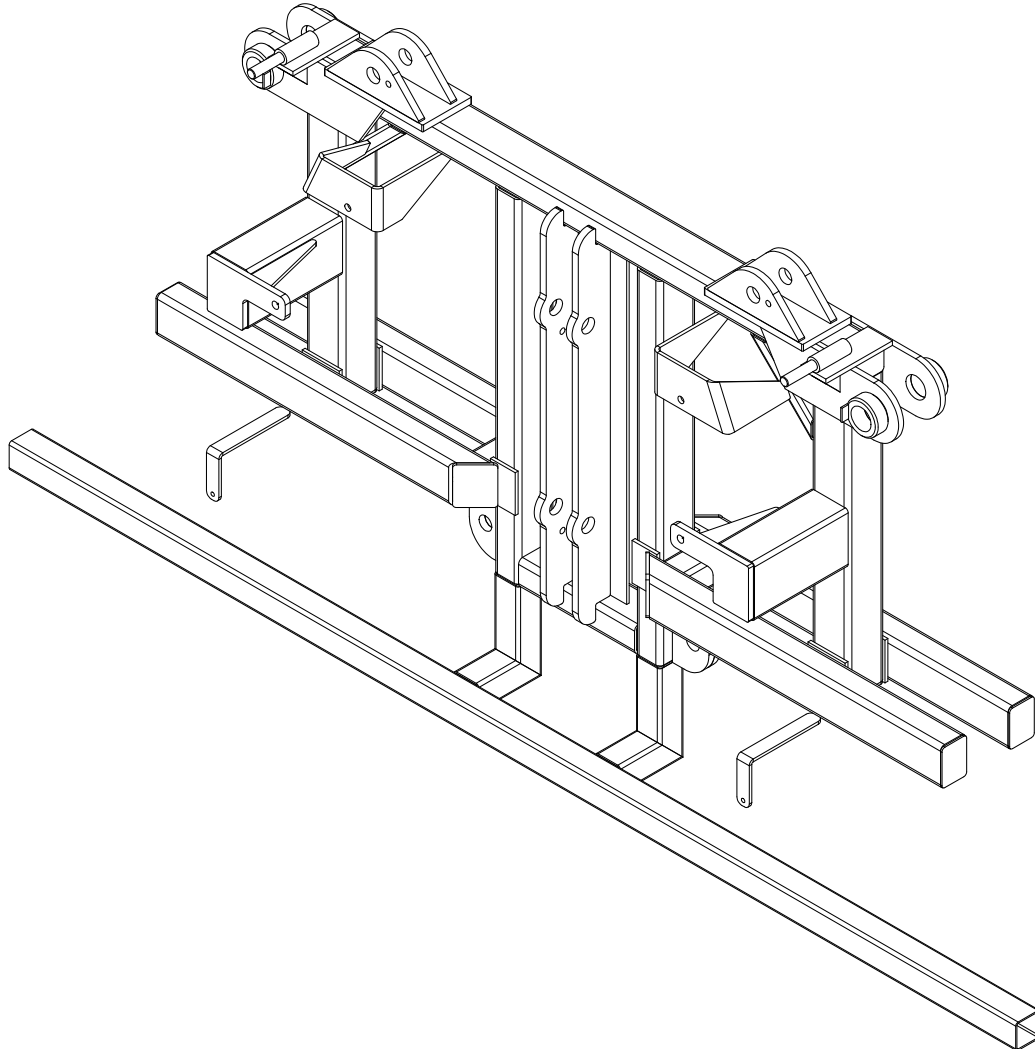
# CENTRE SECTION WITHOUT TILTS

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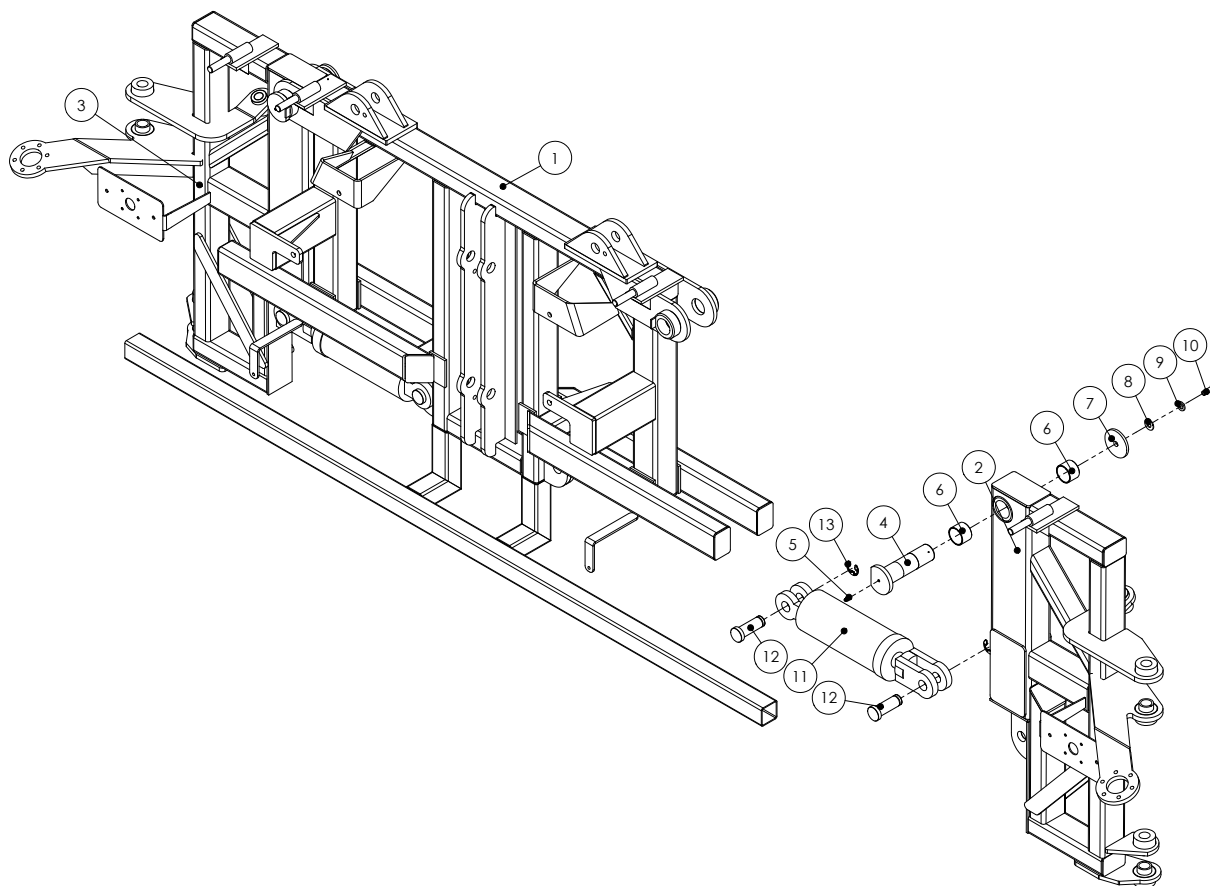
Part No	Description	Quantity
GA4653270	Centres Section without Tilts	1

## CENTRE SECTION WITH TILTS



Part No	Description	Quantity
GA4653275	Centre Section with Tilts	1

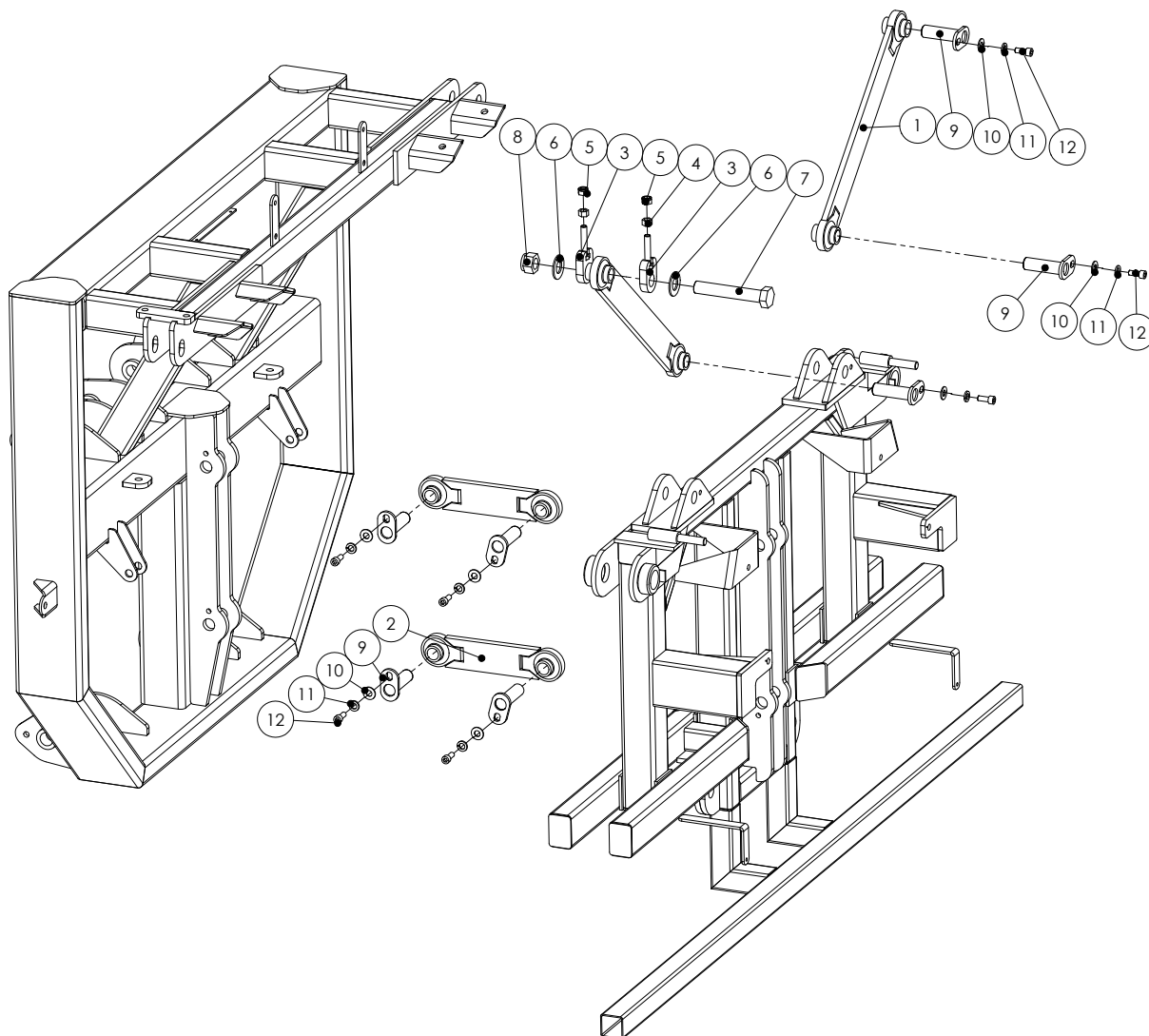
## TILT ARMS & ACCESSORIES



Item	Part No	Description	Quantity
1	GA4653270	Centre Section with Tilts	1
2	GA4653290	Right Tilt Arm	1
3	GA4653295	Left Tilt Arm	1
4	MACH0115	Tilt Arm Pin	2
5	GA5012203	Grease Nipple	2
6	GA5009473	Glacier Bush (40ID x 30)	4
7	F70111A	Tilt Pin Washer	2

Item	Part No	Description	Quantity
8	GA5000577	12mm Washer	2
9	GA5000575	12mm Spring Washer	2
10	GA5000307	M12 x 30mm Cap Screw	2
11	GA5018551	Tilt Cylinder (3 1/2" x 5")	2
12	L054A	Tilt Cylinder Pin	4
13	GA5001223	19mm E-Type Clip	4

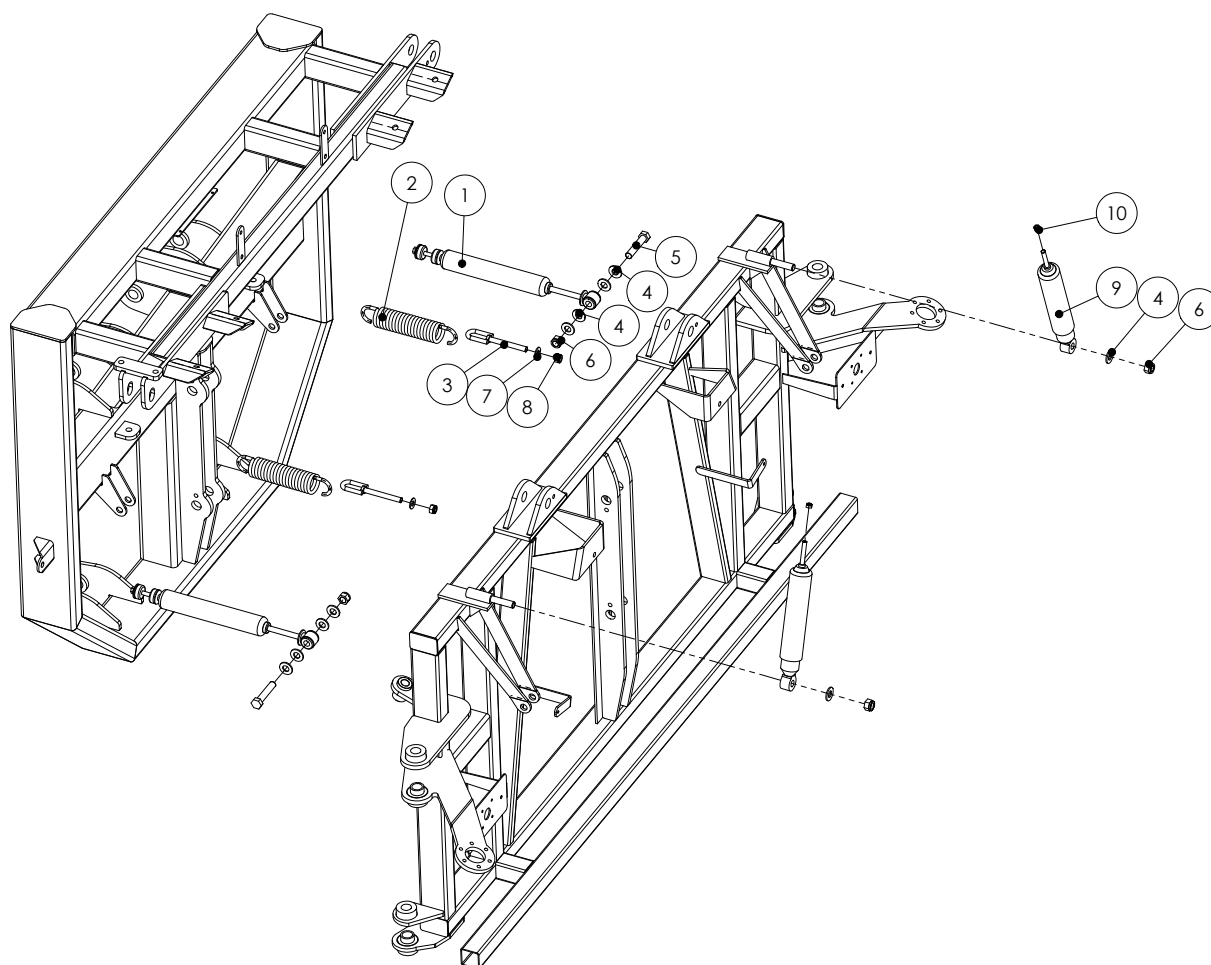
# DELTA LINKS



Item	Part No	Description	Quantity
1	GA4656240	Long Delta Link	2
2	GA5067855	Short Delta Link	2
3	GA4656260	Delta Link Adjuster	2
4	GA5000559	M12 Nut	2
5	GA5012461	M12 Nyloc Nut	2
6	GA5017659	1" Washer	2

Item	Part No	Description	Quantity
7	GA4683145	1" x 6" UNC Bolt	1
8	GA5012439	1" UNC Nyloc Nut	1
9	Pin-1-87	Delta Link Pin	7
10	GA5000577	12mm Washer	7
11	GA5000575	12mm Spring Washer	7
12	GA5000297	M12 x 25mm Cap Screw	7

## CENTRE SECTION DAMPER & SPRINGS



Item	Part No	Description	Quantity
1	GA5015899	Yaw Shock Absorber	2
2	GA5016605	Yaw Spring	4
3	GA5008545	M12 x 150mm Eye Bolt	4
4	GA5001043	16mm Washer	12
5	GA5011307	M16 x 80mm Bolt	2

Item	Part No	Description	Quantity
6	GA5001029	M16 Nyloc Nut	6
7	GA5000577	12mm Washer	2
8	GA5012461	M12 Nyloc Nut	2
9	GA5015145	Damper	2
10	GA5004917	M8 Nyloc Nut	2

Note: 2 Yaw Springs fitted per both sides, only single spring shown in diagram

OVERSIZE SIGN

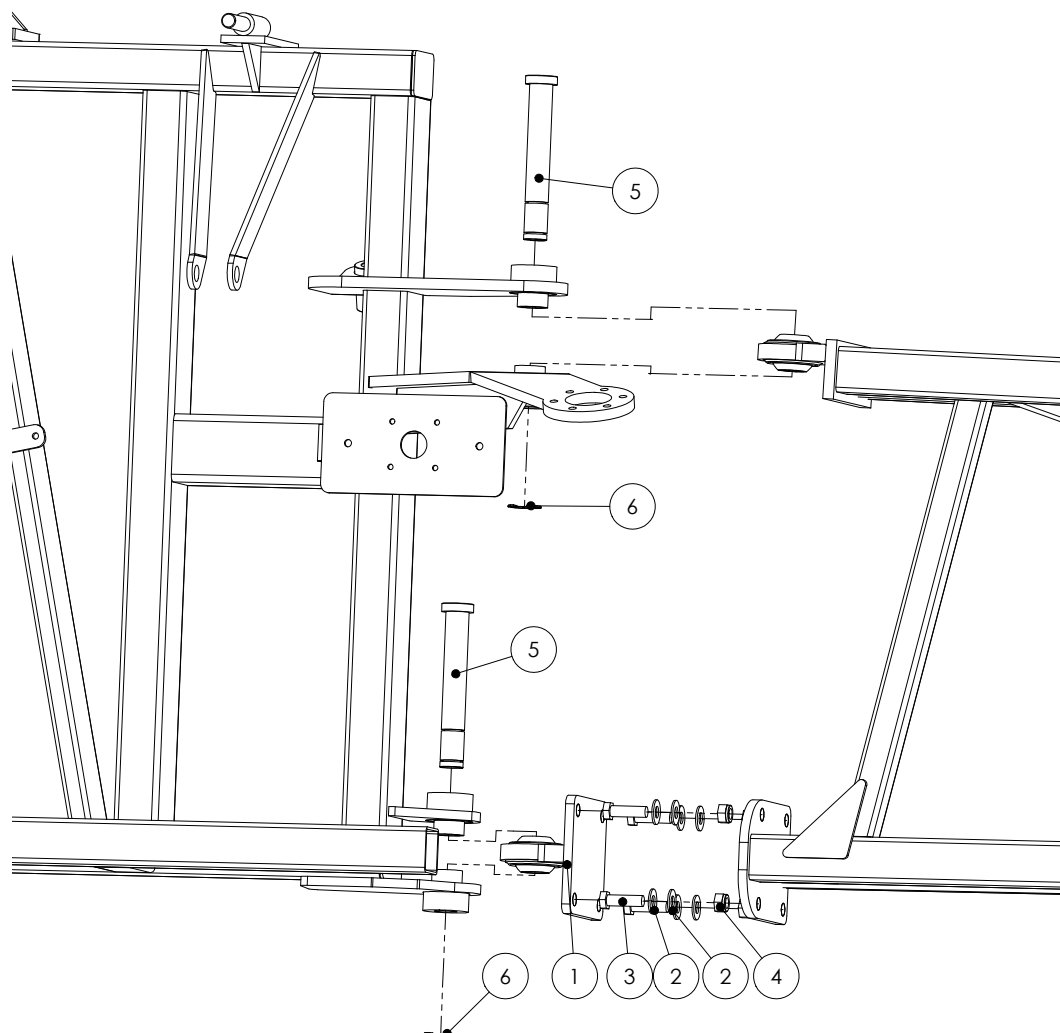
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Part No	Description	Quantity
GA5009613	Oversize Sign	1

Note: Holes to be drilled to suit

## BOOM PIVOT PINS

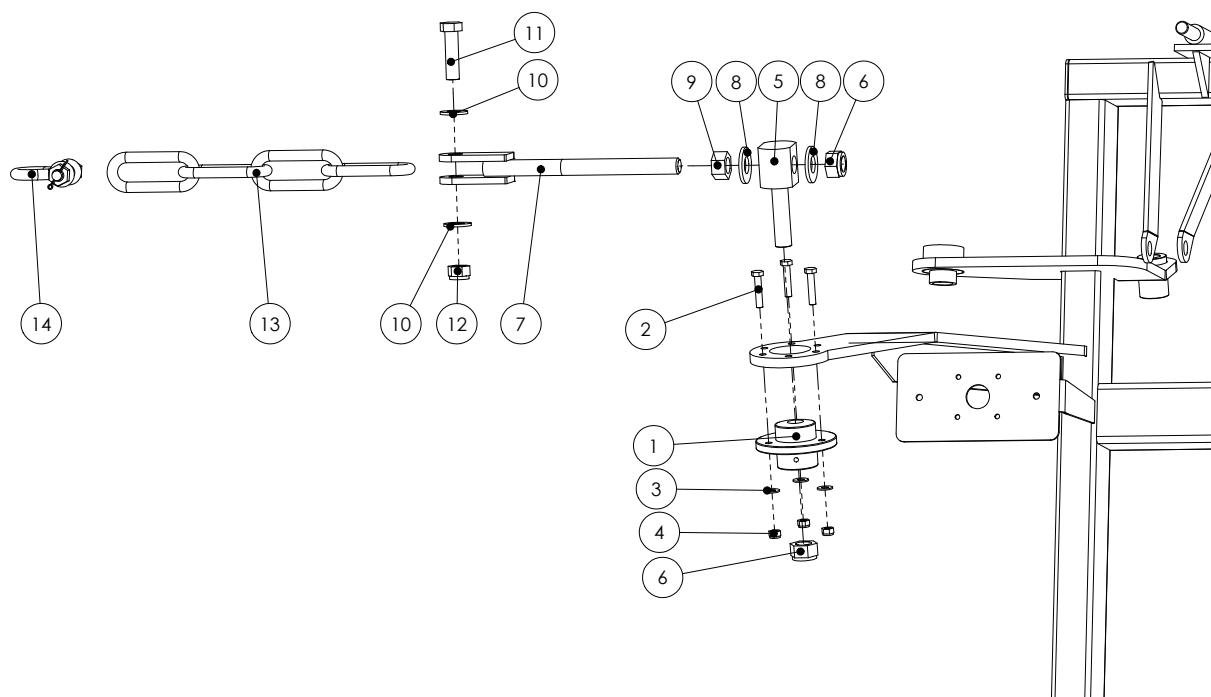


Item	Part No	Description	Quantity
1	GA4656195	Bolt-on Rose End	2
2	GA5000577	12mm Washer	8
3	GA5000319	M12 x 40mm Bolt	4
4	GA5012461	M12 Nyloc Nut	4
5	L002A	Pivot Pin	2
6	GA5001223	19mm E-Clip	2

Note: Shim plate available for Bolt-on Rose End, 1mm - GA4535285  
3mm - GA4535355  
5mm - GA4535360



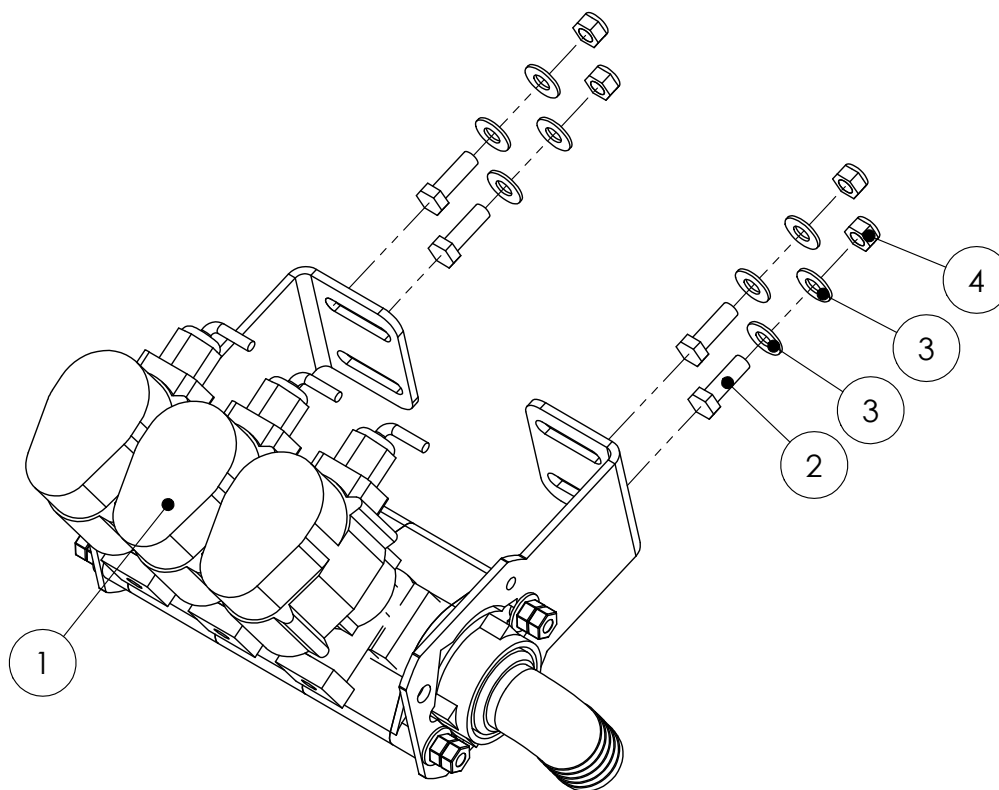
# BOOM CABLE ADJUSTERS



Item	Part No	Description	Quantity
1	MACH0029	Eccentric Bush	2
2	GA5048655	M8 x 40mm Bolt	6
3	GA5004913	8mm Washer	6
4	GA5004917	M8 Nyloc Nut	6
5	L006A	Boom Cable Swivel	2
6	GA5048125	M20 x 2.5 Nyloc Nut	4
7	GA5020320	Threaded Cable Adjuster	2

Item	Part No	Description	Quantity
8	GA5001741	20mm Washer	4
9	GA5001709	M20 x 2.5 Nut	2
10	GA5001043	16mm Washer	4
11	GA5000941	M16 x 60mm Bolt	2
12	GA5001029	M16 Nyloc Nut	2
13	GA5065020	Chain	8 Links
14	GA5000669	Bow Shackle	2

## BOOM SECTION VALVE ASSEMBLIES

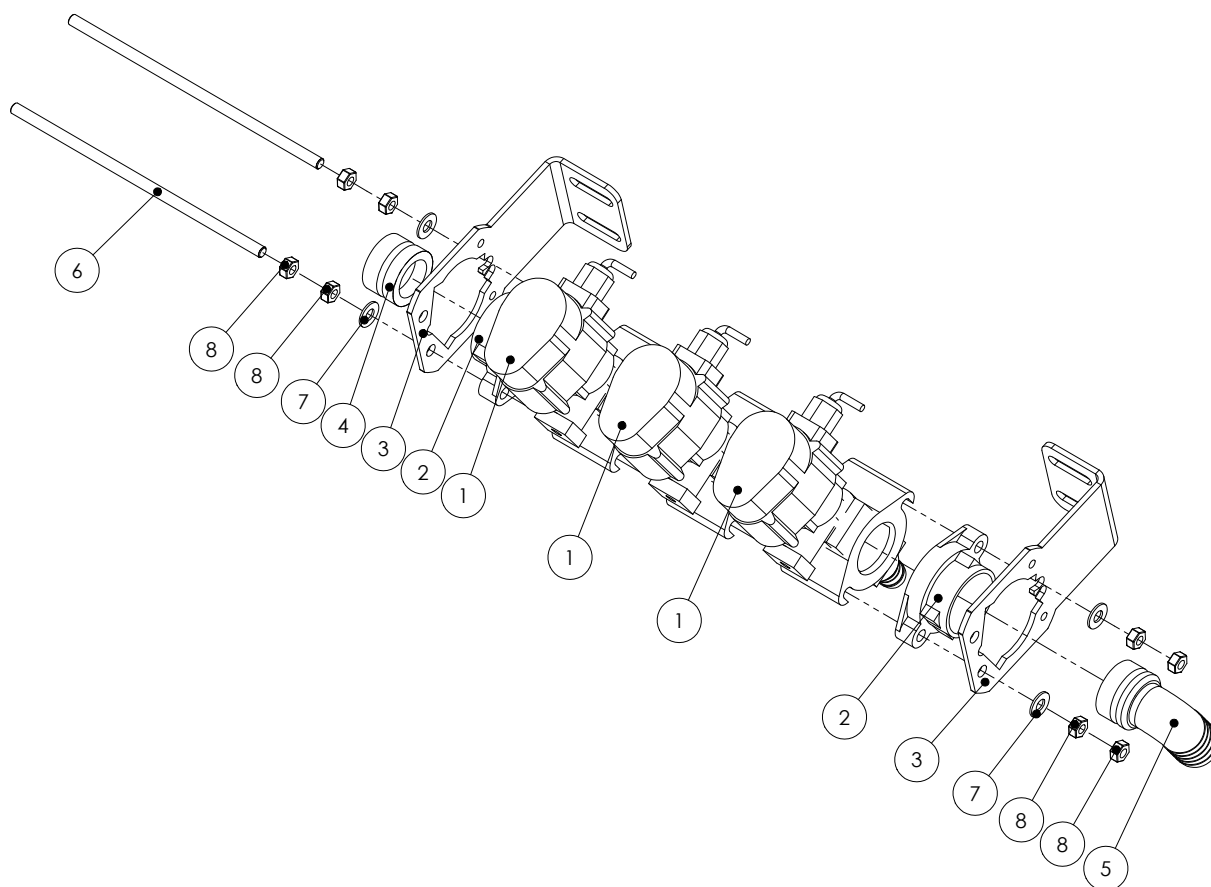


Item	Part No	Description	Quantity
I	GA5065740	3 Section Boom Valves	I
	GA5065741	4 Section Boom Valves	I
	GA5065704	5 Section Boom Valves	I
	GA5065705	6 Section Boom Valves	I
	GA5065706	7 Section Boom Valves	I
	GA5065710	8 Section Boom Valves	I

Item	Part No	Description	Quantity
2	GA5004711	M8 x 25mm Bolt	4
3	GA5003643	8mm Washer	8
4	GA5004917	M8 Nyloc Nut	4

See Altek/Goldacres Part Catalogue for complete breakdowns

## BOOM SECTION VALVES COMPONENTS



Item	Part No	Description	Quantity
1	GA5065515	Section Valve <sup>#</sup>	*
	GA5065510	Section Valve with Pressure Relief <sup>#</sup>	*
2	GA5065810	Boom Valve End Cap	2
3	GA5065800	Boom Valve Bracket	2
4	GA5065680	AS40 Plug	1
5	GA5065620	AS40 x 33mm Elbow	1
6	GA5065805	3 Section Connecting Rod	2

Item	Part No	Description	Quantity
	GA4562055	4 Section Connecting Rod	2
	GA4562125	5 Section Connecting Rod	2
	GA4562050	6 Section Connecting Rod	2
	GA4562045	7 Section Connecting Rod	2
	GA4562040	8 Section Connecting Rod	2
7	GA5004913	8mm Washer	4
8	GA5004918	M8 S/S Nut	8

\* Quantity may vary depending upon machine specifications.

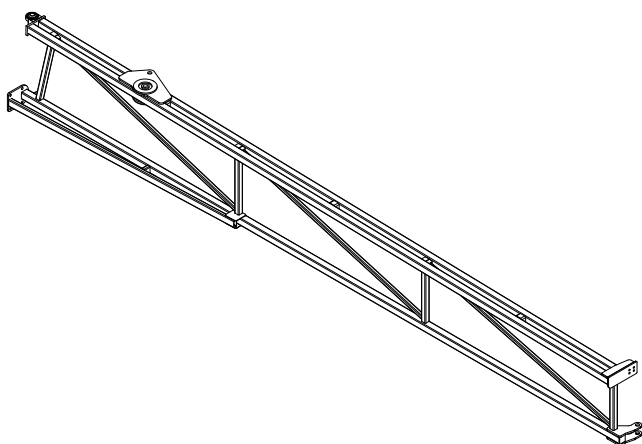
<sup>#</sup> GA5065515 is fitted to sprayer as standard, GA5065510 may be fitted as an option. For complete part breakdown of these components refer to the GoldAcres Altek Parts Catalogue

See Altek/Goldacres Part Catalogue for complete breakdowns



# CHAPTER 14

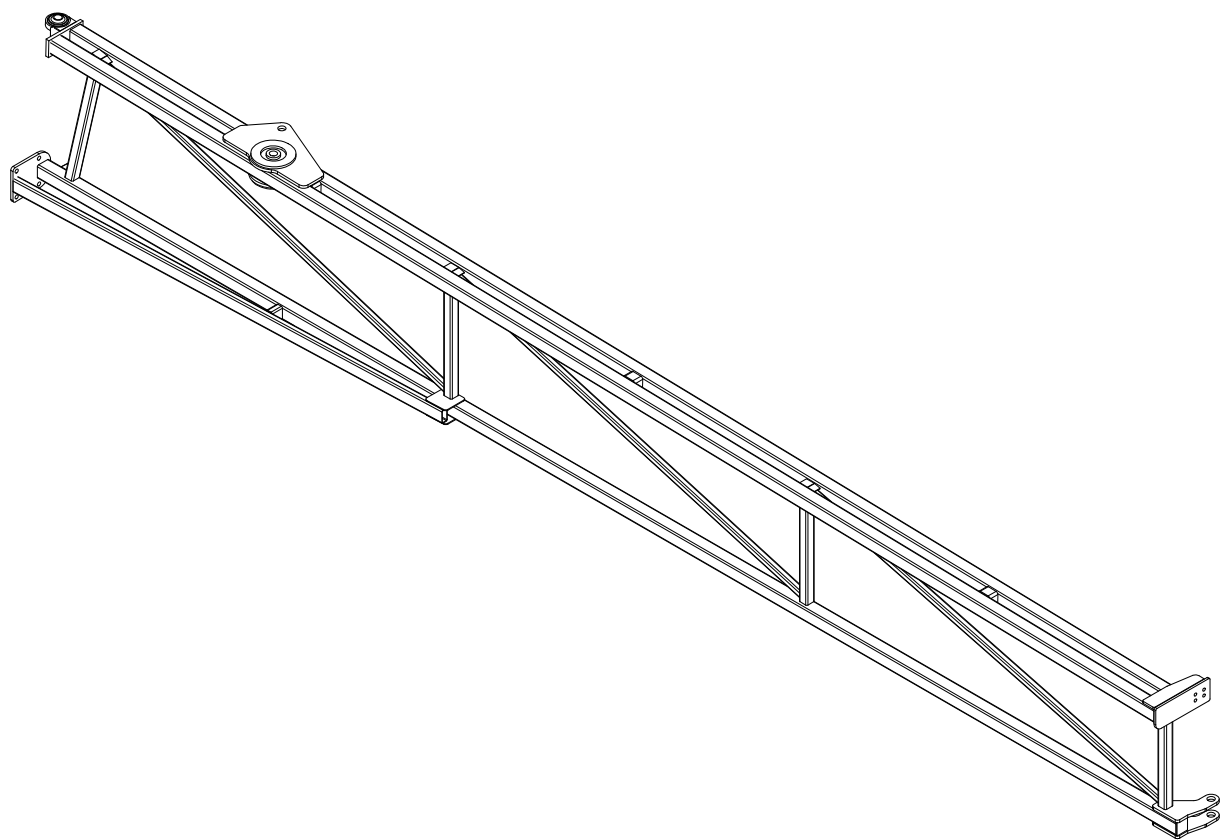
## DELTA BOOMS



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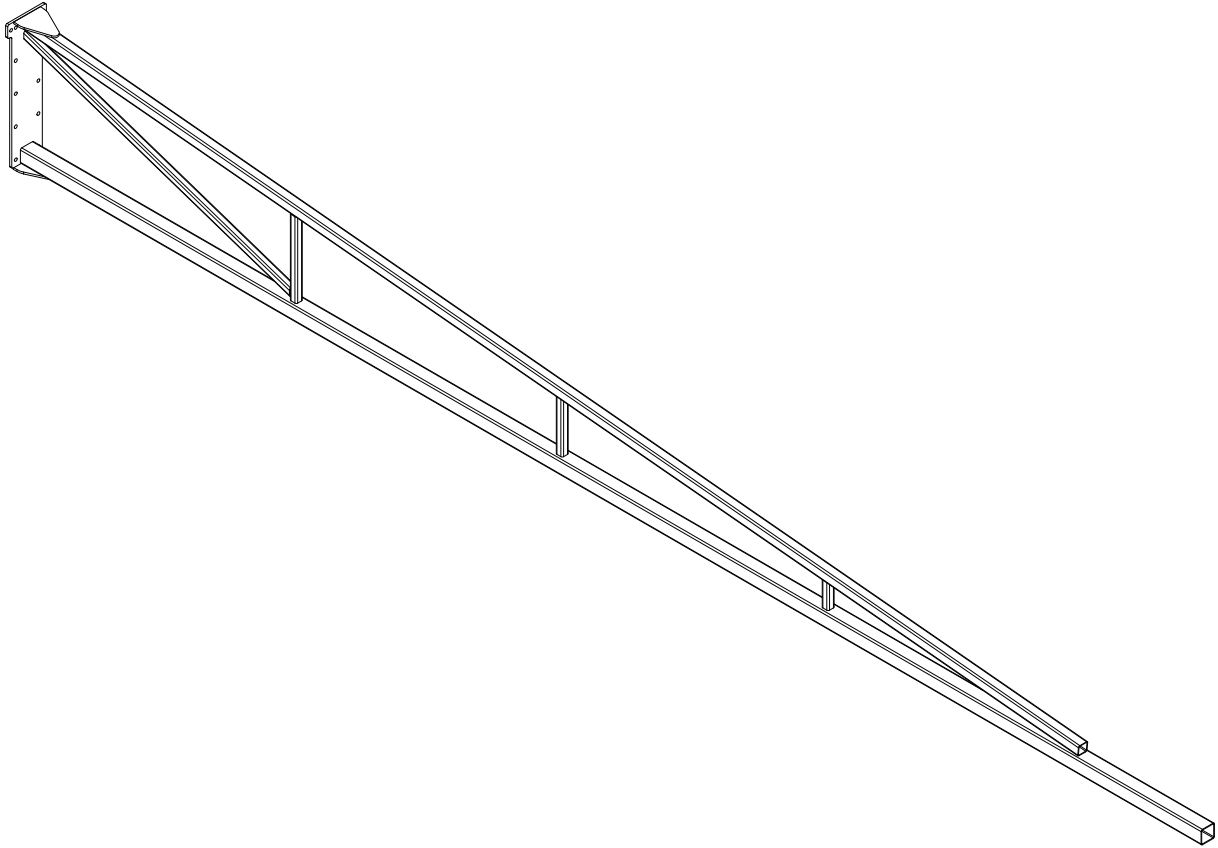
INNER BOOM WINGS



Part No	Description	Quantity
GA4657720	18-24m Inner Wing (RH)	1
GA4657725	18-24m Inner Wing (LH)	1

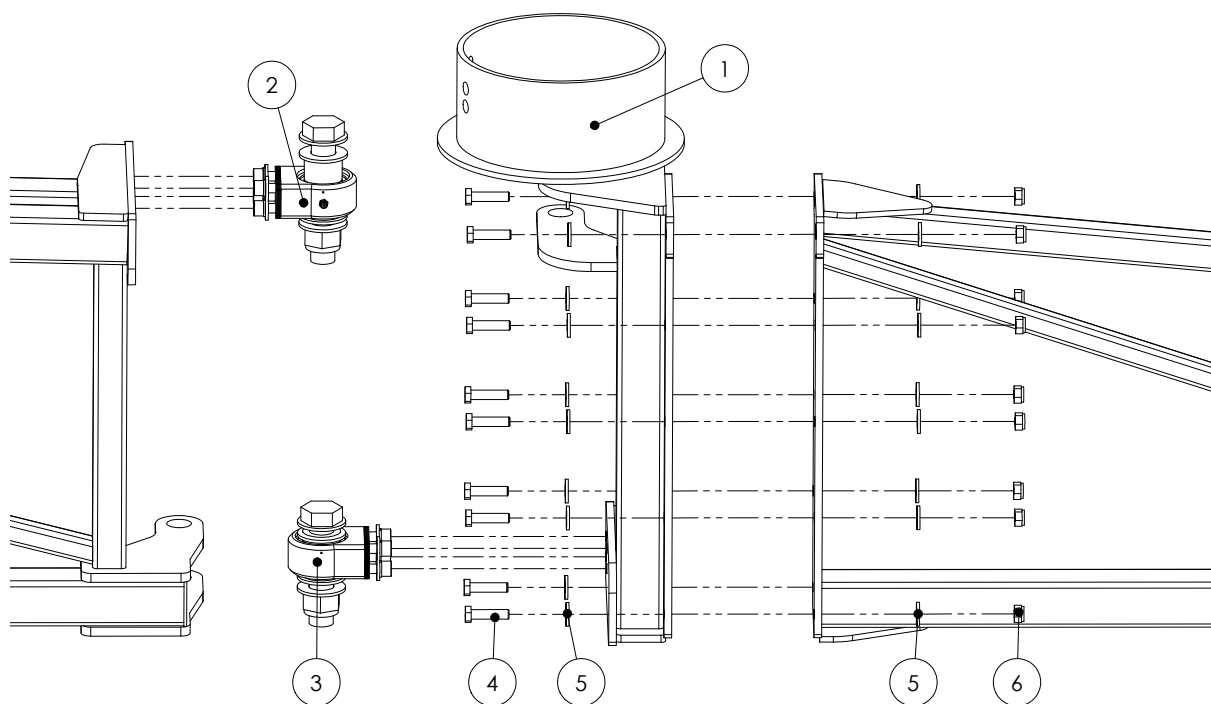
## OUTER BOOM SECTIONS

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Part No	Description	Quantity
GA4655925	18m Outer Boom (steel)	2
GA4655930	21m Outer Boom (steel)	2
GA4655935	24m Outer Boom (Aluminium)	2
GA4656055	24m Outer Boom to suit	
	Breakaway (Aluminium)	2

## CABLE DRUM HINGE

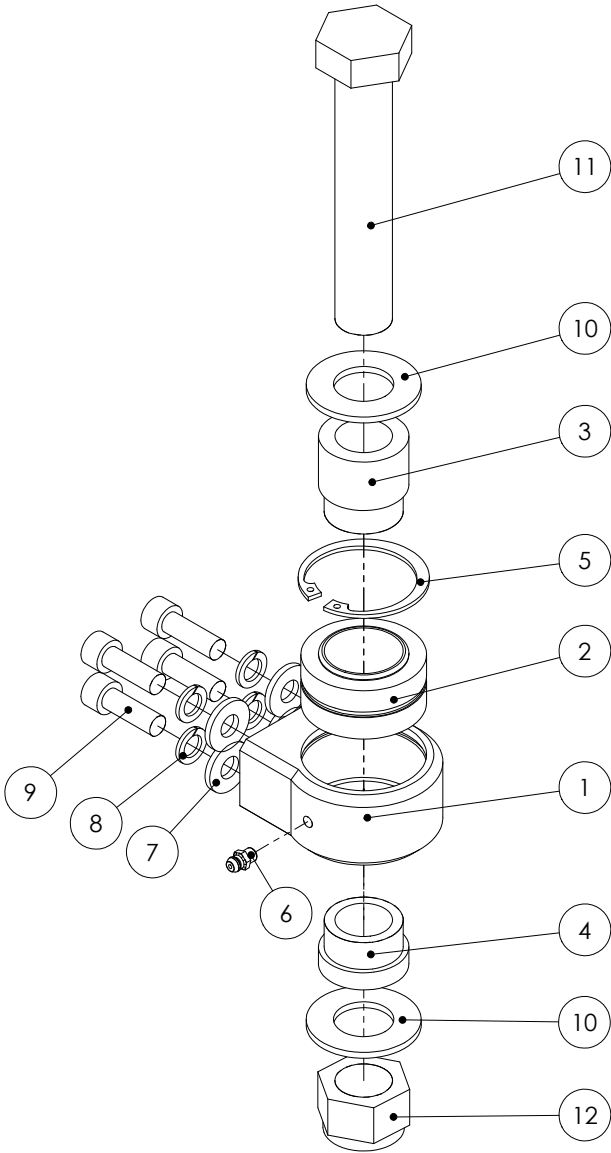


Item	Part No	Description	Quantity
1	GA4657740	Right Cable Drum	1
	GA4657745	Left Cable Drum	1
2	GA4932346	Upper Pivot Assembly	2
3	GA4932347	Lower Pivot Assembly	2
4	GA5015011	M10 x 35mm Bolt	20
5	GA5000115	10mm Washer	40
6	GA5000141	M10 Nyloc Nut	20

Note: A 1mm S/S shim is also available to go with this assembly Part No: F70771A



UPPER BEARING PIVOT ASSEMBLY



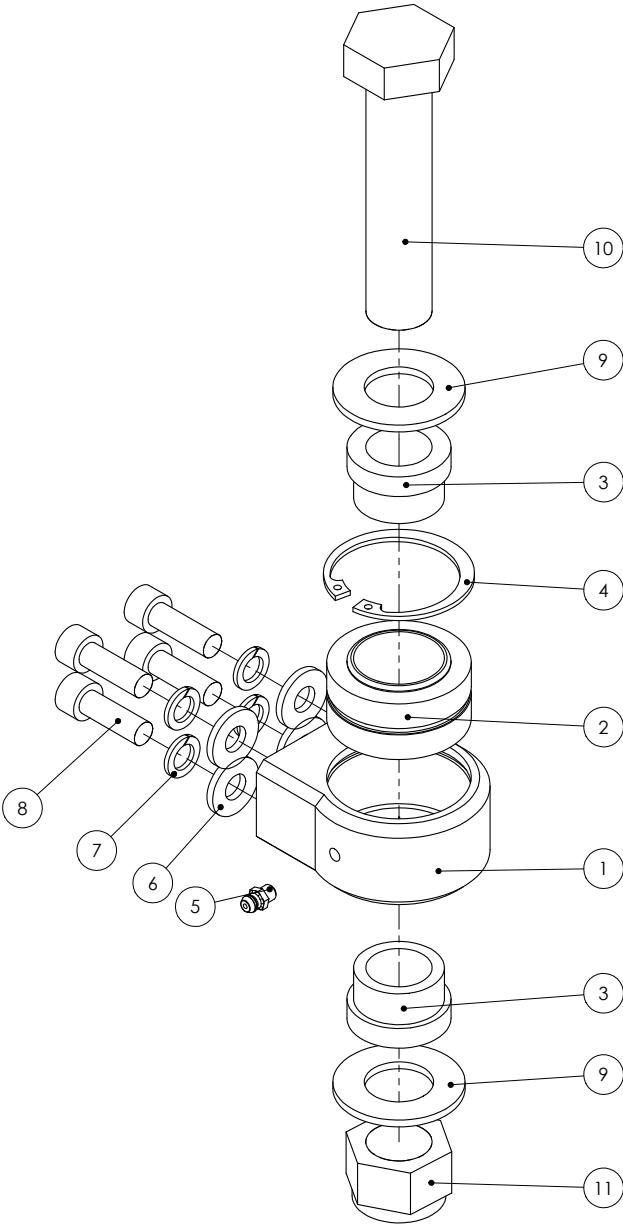
Assembly Part No: GA4932346

Item	Part No	Description	Quantity
1	MACH0123	Bearing Housing	1
2	GA5015659	Spherical Bush	1
3	MACH0119	Pivot Bush (long)	1
4	DB-ADJ-02	Pivot Bush (short)	1
5	GA5010573	Internal Circlip	1
6	GA5012203	1/4" Grease Nipple	1

Item	Part No	Description	Quantity
7	GA5000115	10mm Washer	4
8	GA5000137	10mm Spring Washer	4
9	GA5020115	M10 x 30mm Cap Screw	4
10	GA5017659	1" Washer	2
11	GA5006041	1" x 5 1/2" UNF Bolt	1
12	GA5012445	1" UNF Nyloc Nut	1

Note:A 1mm S/S shim is also available to go with this assembly Part No:F70771A

LOWER BEARING PIVOT ASSEMBLY



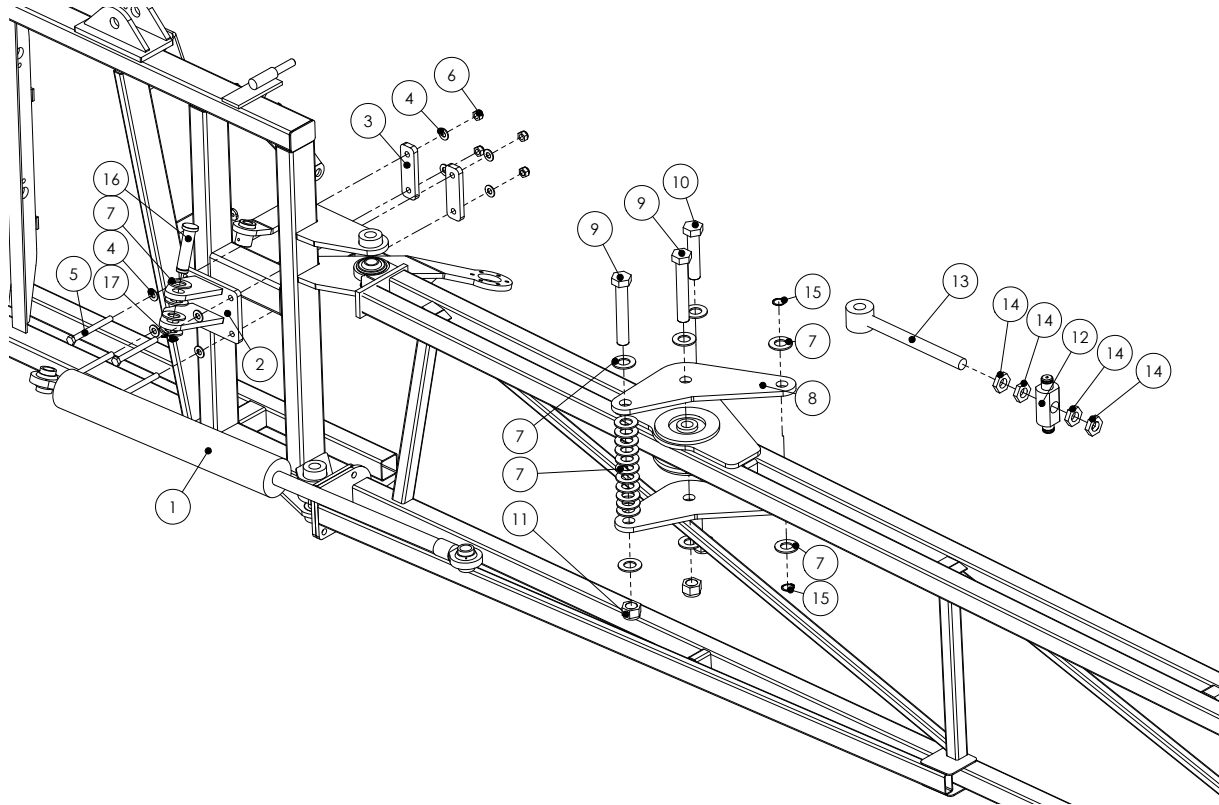
Assembly Part No: GA4932347

Item	Part No	Description	Quantity
1	MACH0123	Bearing Housing	1
2	GA5015659	Spherical Bush	1
3	DB-ADJ-02	Pivot Bush (short)	2
4	GA5010573	Internal Circlip	1
5	GA5012203	1/4" Grease Nipple	1
6	GA5000115	10mm Washer	4

Item	Part No	Description	Quantity
7	GA5000137	10mm Spring Washer	4
8	GA5020115	M10 x 30mm Cap Screw	4
9	GA5017659	1" Washer	2
10	GA5006039	1" x 4 1/2" UNF Bolt	1
11	GA5012445	1" UNF Nyloc Nut	1

Note: A 1mm S/S shim is also available to go with this assembly Part No: F70771A

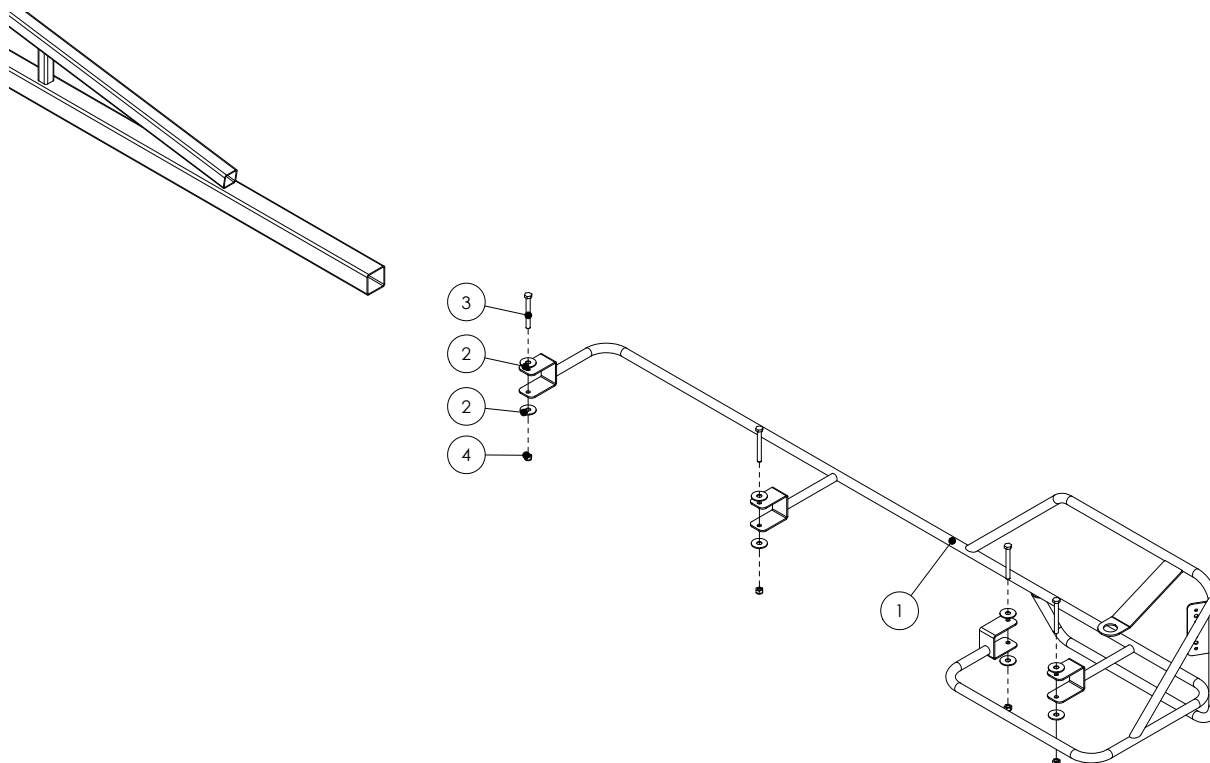
## FOLD CYLINDERS



Item	Part No	Description	Quantity
1	GA5018555	Right Fold Cylinder	1
	GA5018557	Left Fold Cylinder	1
2	GA4656505	Right Cylinder Centre Clevis	1
	GA4656510	Left Cylinder Centre Clevis	1
3	F70107A	Mounting Bolt Plate	4
4	GA5000577	12mm Washer	16
5	GA5000265	M12 x 120mm Bolt	8
6	GA5012461	M12 Nyloc Nut	8
7	GA5017659	1" Washer	46
8	24mk4DB005LAS	Pivot Plate	4

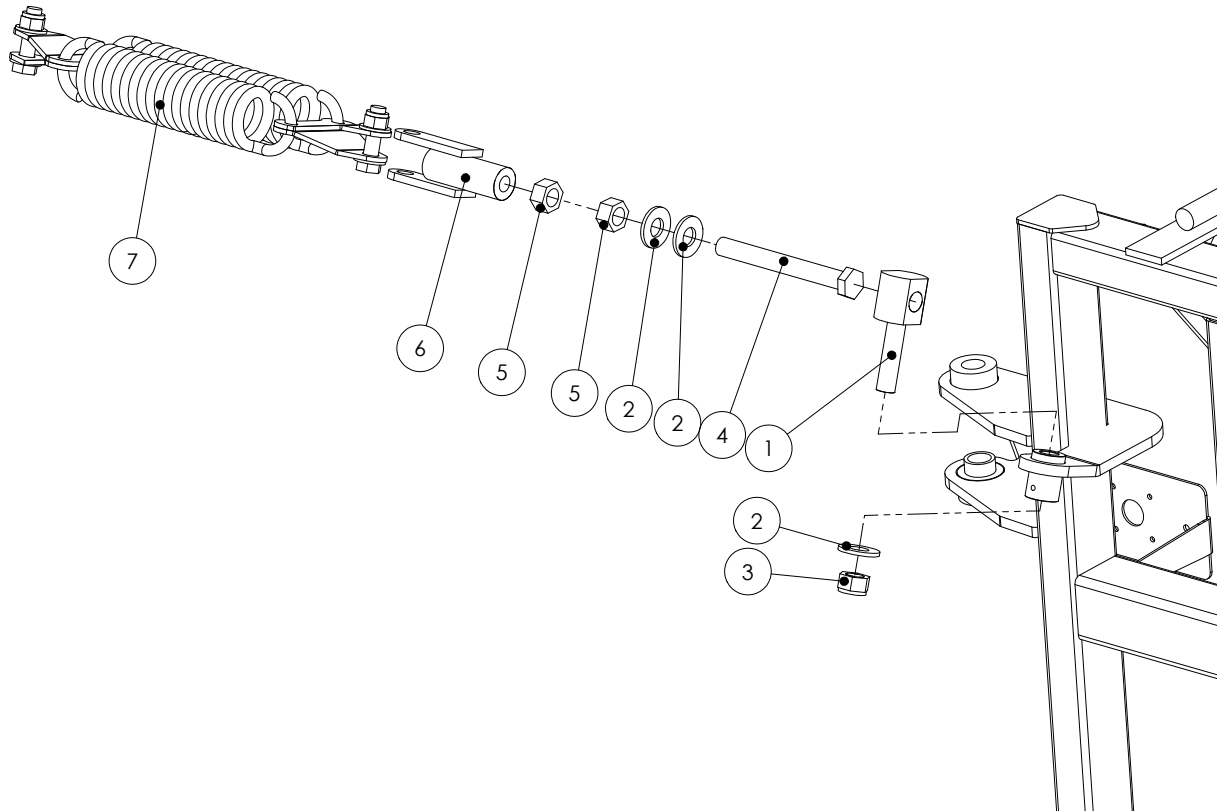
Item	Part No	Description	Quantity
9	GA5006043	1" x 6" UNF Bolt	4
10	GA5006039	1" x 4 1/2" UNF Bolt	2
11	GA5012445	1" UNF Nyloc Nut	6
12	24mk4DB006MACH	Adjuster Pivot	2
13	FAB0201	Threaded Adjuster	2
14	GA5010991	1" Lock Nut (12TPI)	8
15	GA5008519	External Circlip	4
16	L001A	Inner Cylinder Pin	2
17	GA5001223	19mm E-Clip	2

## BOOM END PROTECTORS


**Kit Part No: GA4901385**

Item	Part No	Description	Quantity
1	GA4656314	Right Boom End Protector	1
	GA4656315	Left Boom End Protector	1
2	GA5002597	3/8" x 1 1/4" Washer	16
3	GA5052600	M8 x 75mm Bolt S/S 304	8
4	GA5052590	M8 Nyloc Nut S/S 316	8

## BOOM CABLE TENSIONER ASSEMBLY

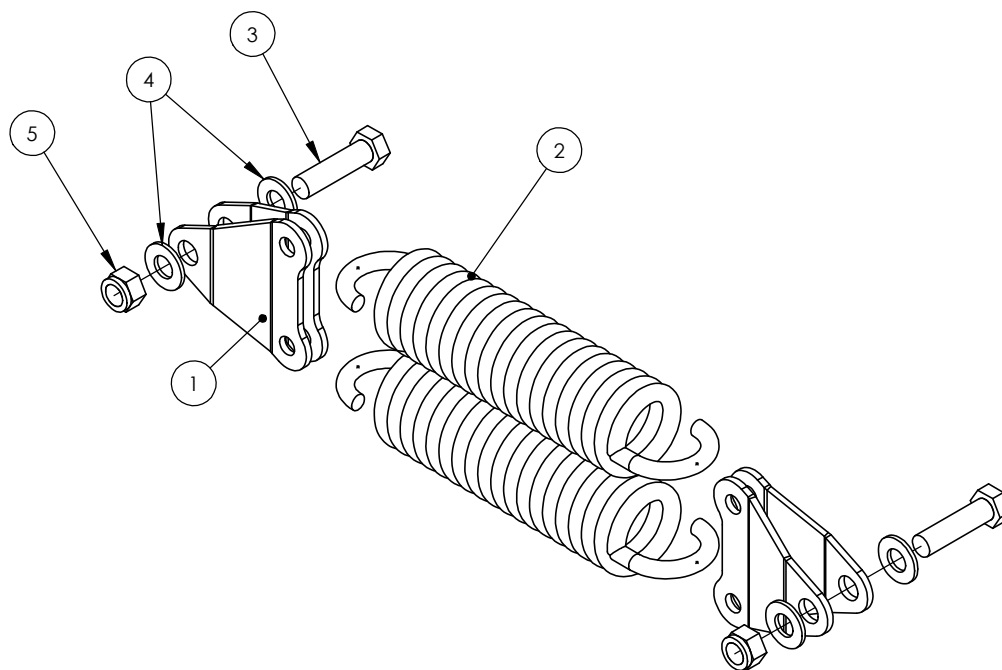


Item	Part No	Description	Quantity
1	L006A	Pivot Housing	2
2	GA5001739	20mm Washer	6
3	GA5012467	M20 Nyloc Nut	2
4	MACH0137	M20 Cable Bolt	2

Item	Part No	Description	Quantity
5	GA5048125	M20 Nut	4
6	GA4656265	Screw on Clevis	2
7	GA4922095	Spring Assembly	2

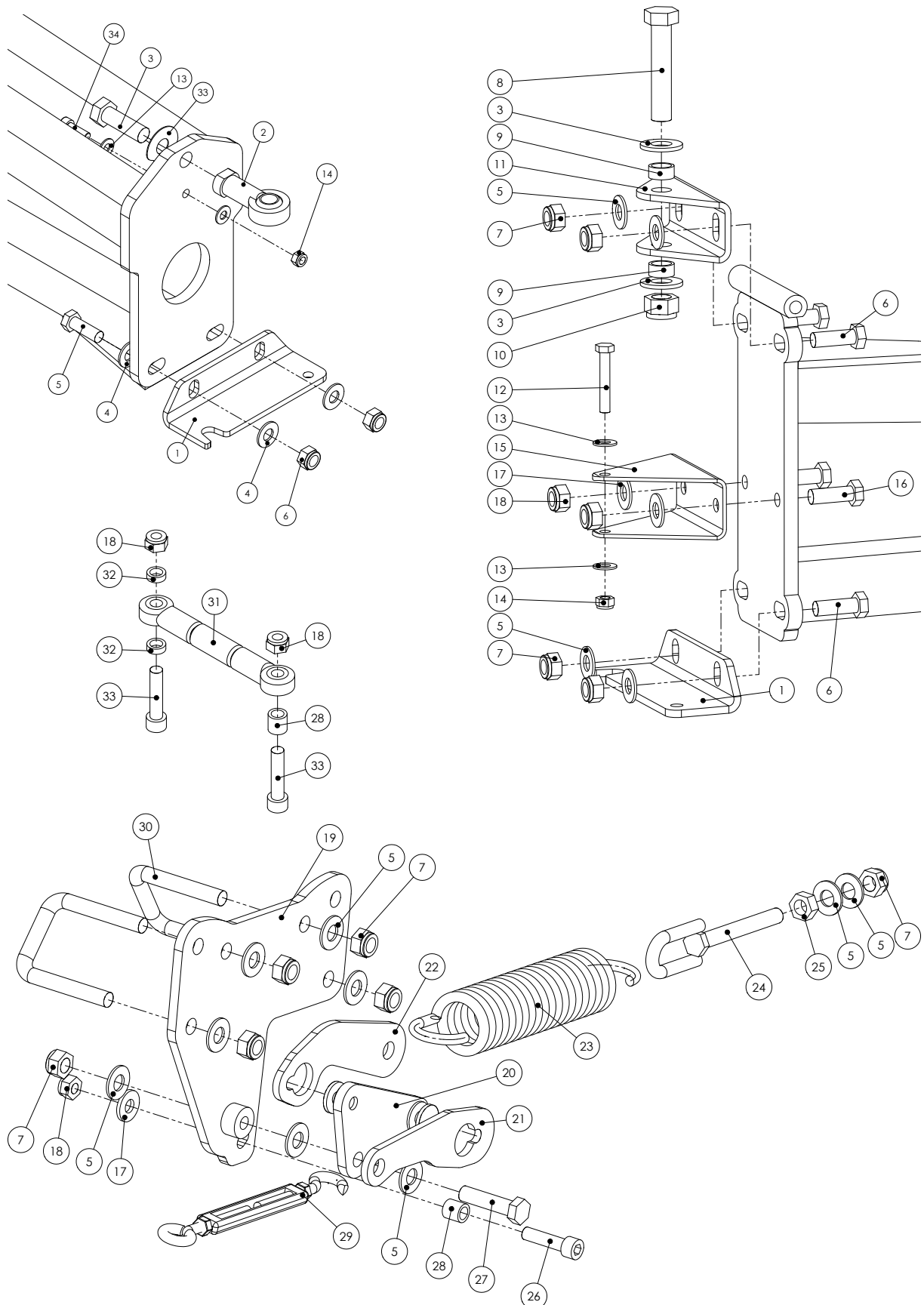
## CABLE SPRING ASSEMBLY

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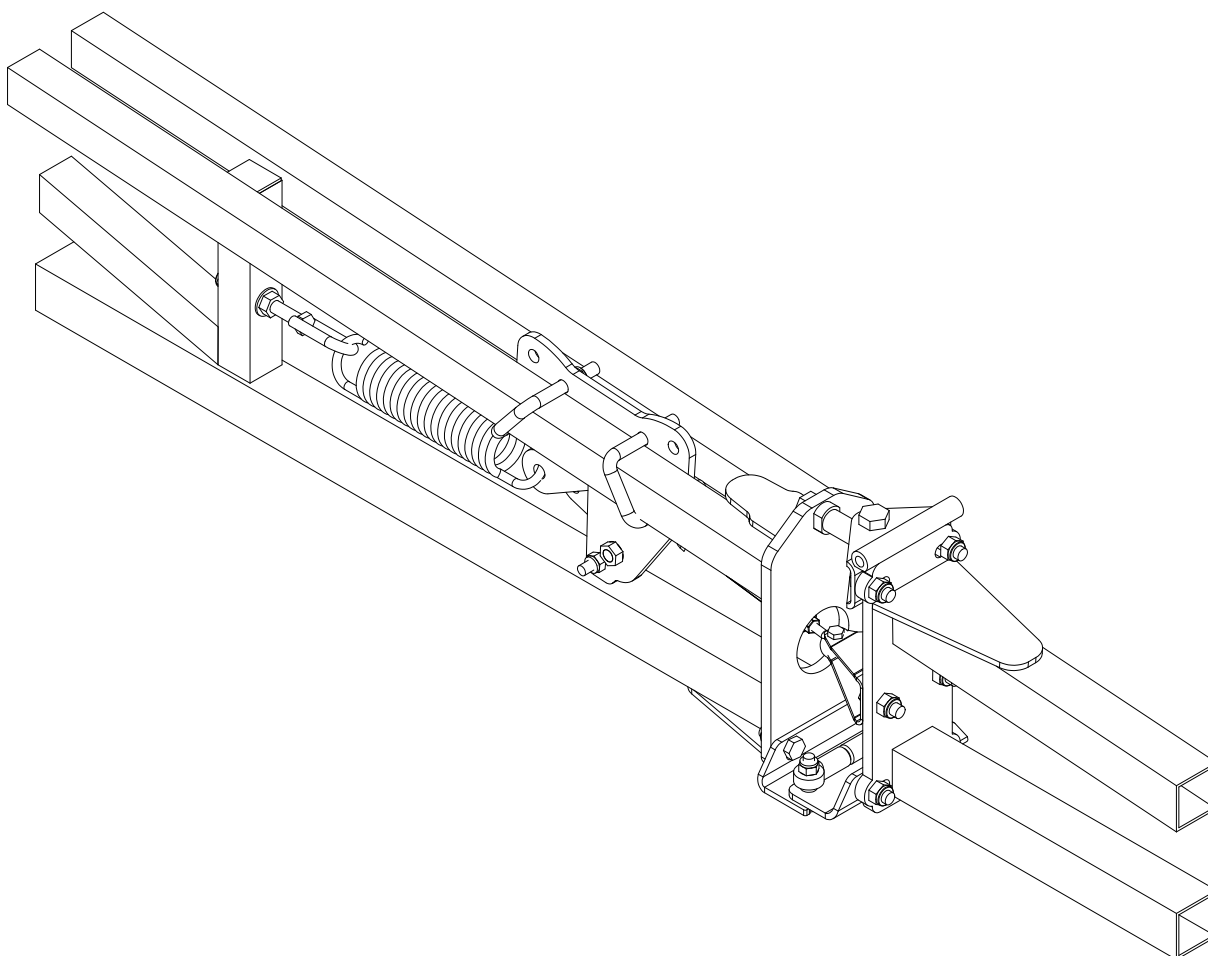
**Kit Part No: GA4922095**

Item	Part No	Description	Quantity
1	GA4522755	Dual Spring Mount	4
2	GA5010793	Heavy Spring	2
3	GA5000939	M16 x 60mm Bolt	2
4	GA5001009	16mm Washer	4
5	GA5001029	M16 Nyloc Nut	2

# BREAKAWAY END MECHANISM



## BREAKAWAY END MECHANISM

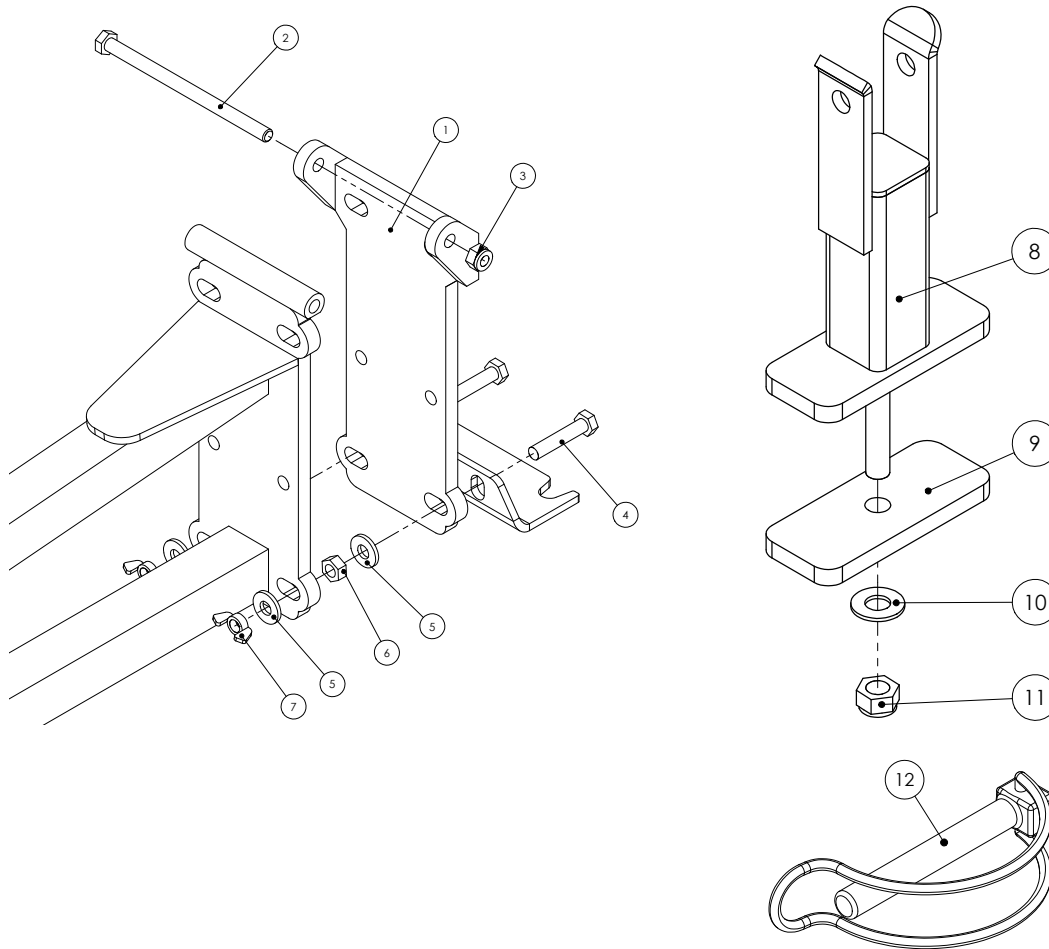


Item	Part No	Description	Quantity
1	GA4502105	Lower Breakaway Bracket	2
2	GA5014469	16mm Female Rod End	1
3	GA5001043	16mm Washer	2
4	GA5000933	M16 x 50mm Bolt	1
5	GA5000587	12mm Washer	15
6	GA5011231	M12 x 35mm Bolt	6
7	GA5012461	M12 Nyloc Nut	11
8	GA5011307	M16 x 80mm Bolt	1
9	GA4552070	Crush Tube (16.2x20.5x9.5)	2
10	GA5001029	M16 Nyloc Nut	1
11	GA4502095	Upper Breakaway Bracket	1
12	GA5004727	M8 x 50mm Bolt	1
13	GA5004883	8mm Washer	4
14	GA5004917	M8 Nyloc Nut	2
15	GA4502100	Middle Breakaway Bracket	1
16	GA5006111	M10 x 35mm Bolt	2
17	GA5000139	10mm Washer	6

Item	Part No	Description	Quantity
18	GA5000141	M10 Nyloc Nut	5
19	GA4656115-01	Stationary Breakaway Plate	1
20	GA4656115-02	Moving Breakaway Plate	1
21	GA4532590	Turnbuckle Plate	1
22	GA4532565	Spring Plate	1
23	GA5016605	Breakaway Spring	1
24	GA5008545	M12 Eye Bolt	1
25	GA5000559	M12 Nut	1
26	GA5006141	M10 x 40mm Cap Screw	1
27	GA5000331	M12 x 50mm Bolt	1
28	GA4552075	Crush Tube (10.2x15x15)	2
29	GA5066930	Turnbuckle	1
30	GA5011251	M12 x 52mm x 80mm U Bolt	2
31	GA4902060-3	Rodend Assembly	1
32	GA4552080	Crush Tube (10.2x15x5)	2
33	GA4522485	Rod End Locking Washer	1
34	GA5004717	M8 x 30mm Cap Screw	1



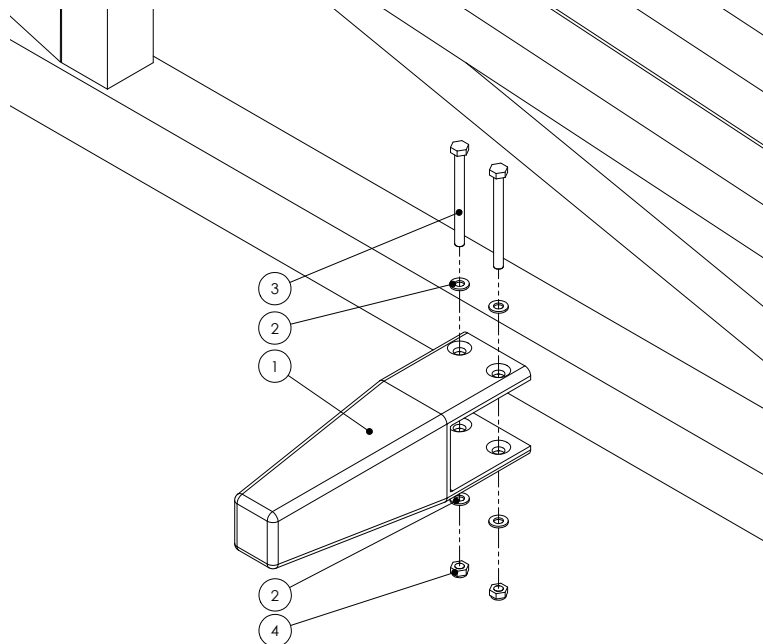
## FLIP OVER ENDS



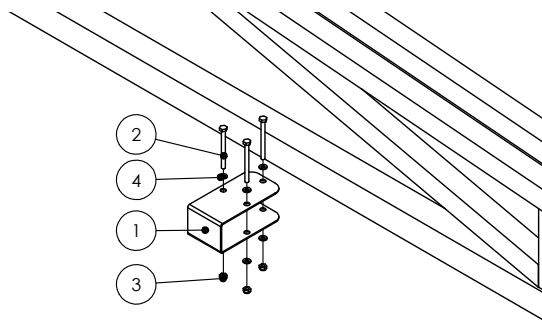
Item	Part No	Description	Quantity
1	GA4656110	Pivot Plate Assembly	2
2	GA5066910	M10 x 160mm Bolt	2
3	GA5000141	M10 Nyloc Nut	2
4	GA5006057	M10 x 50mm Bolt	4
5	GA5000117	10mm Washer	8
6	GA5012459	M10 Nut	4

Item	Part No	Description	Quantity
7	GA5000127	M10 Wingnut	4
8	GA4656310	Boom Saddle	2
9	FOE-005	Retainer Plate	2
10	GA5000577	12mm Washer	2
11	GA5012461	M12 Nyloc Nut	2
12	GA5048380	Pin with Clip	2

## RUBBER BUMP STOPS

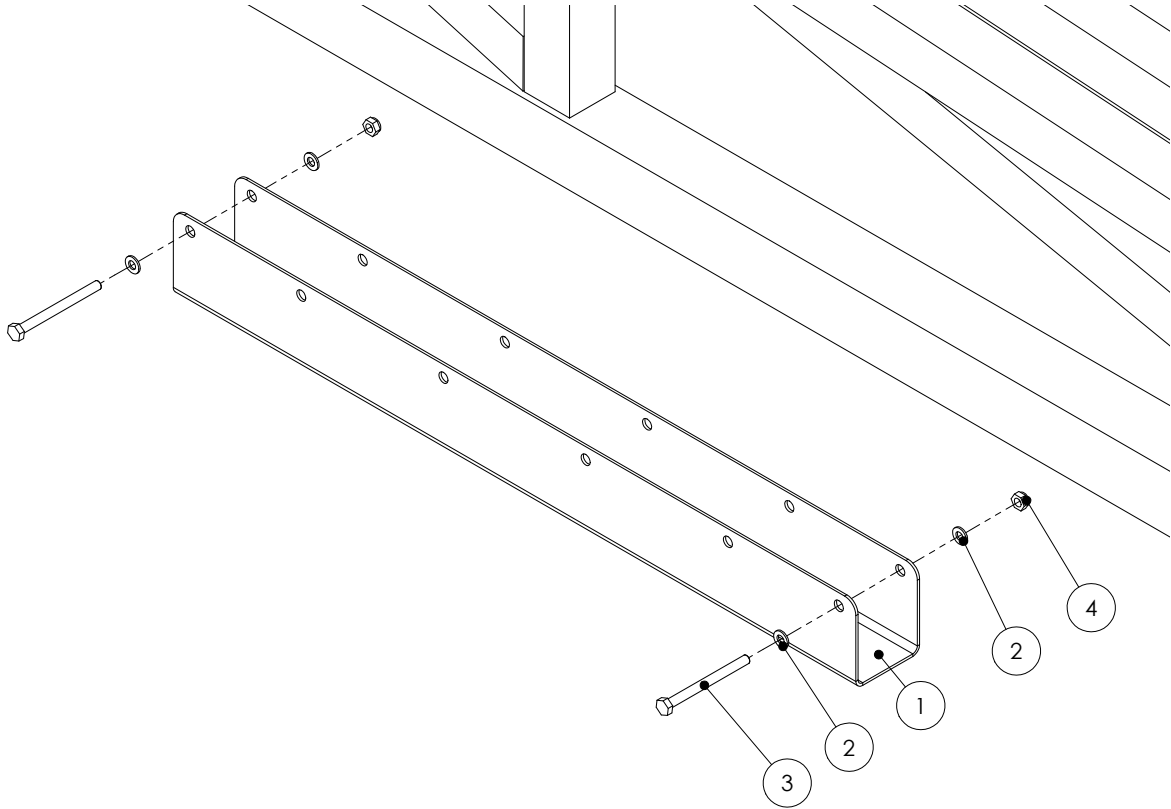


Item	Part No	Description	Quantity
1	GA5006225	Boom Bump Stop	1
2	GA5004437	6mm Washer	4
3	GA5004103	M6 x 70mm Bolt	2
4	GA5048115	M6 Nyloc Nut	2



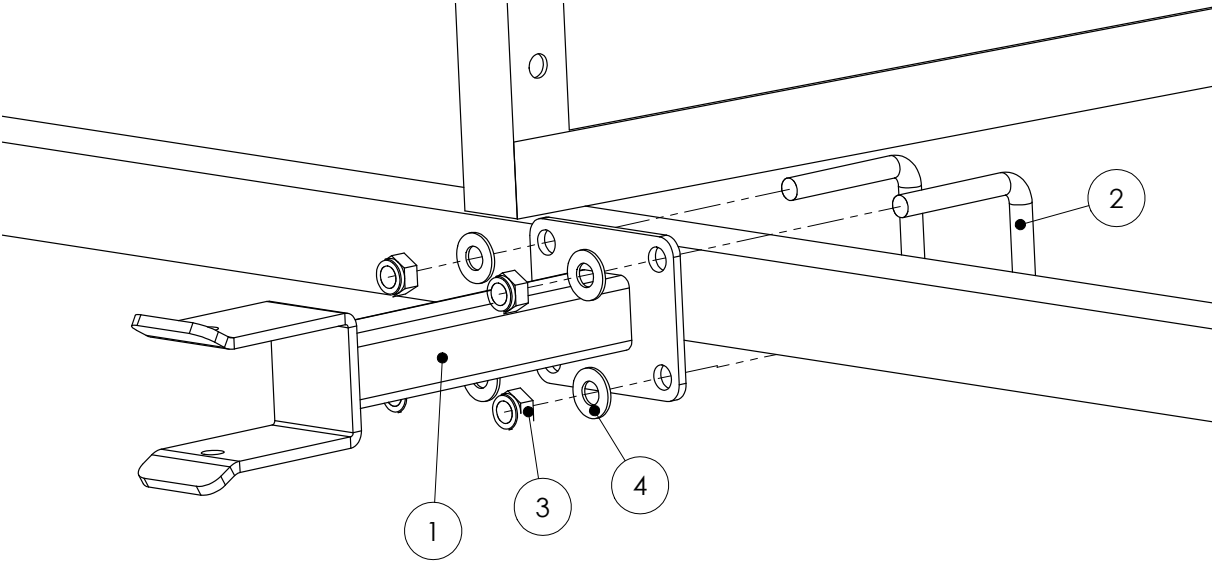
Item	Part No	Description	Quantity
1	GA4522995	Bump Stop Extension Bracket	1
2	GA5004103	M6 x 70mm Bolt	3
3	GA5048115	M6 Nyloc Nut	3
4	GA5004437	6mm Washer	6

# BOOM PROTECTORS



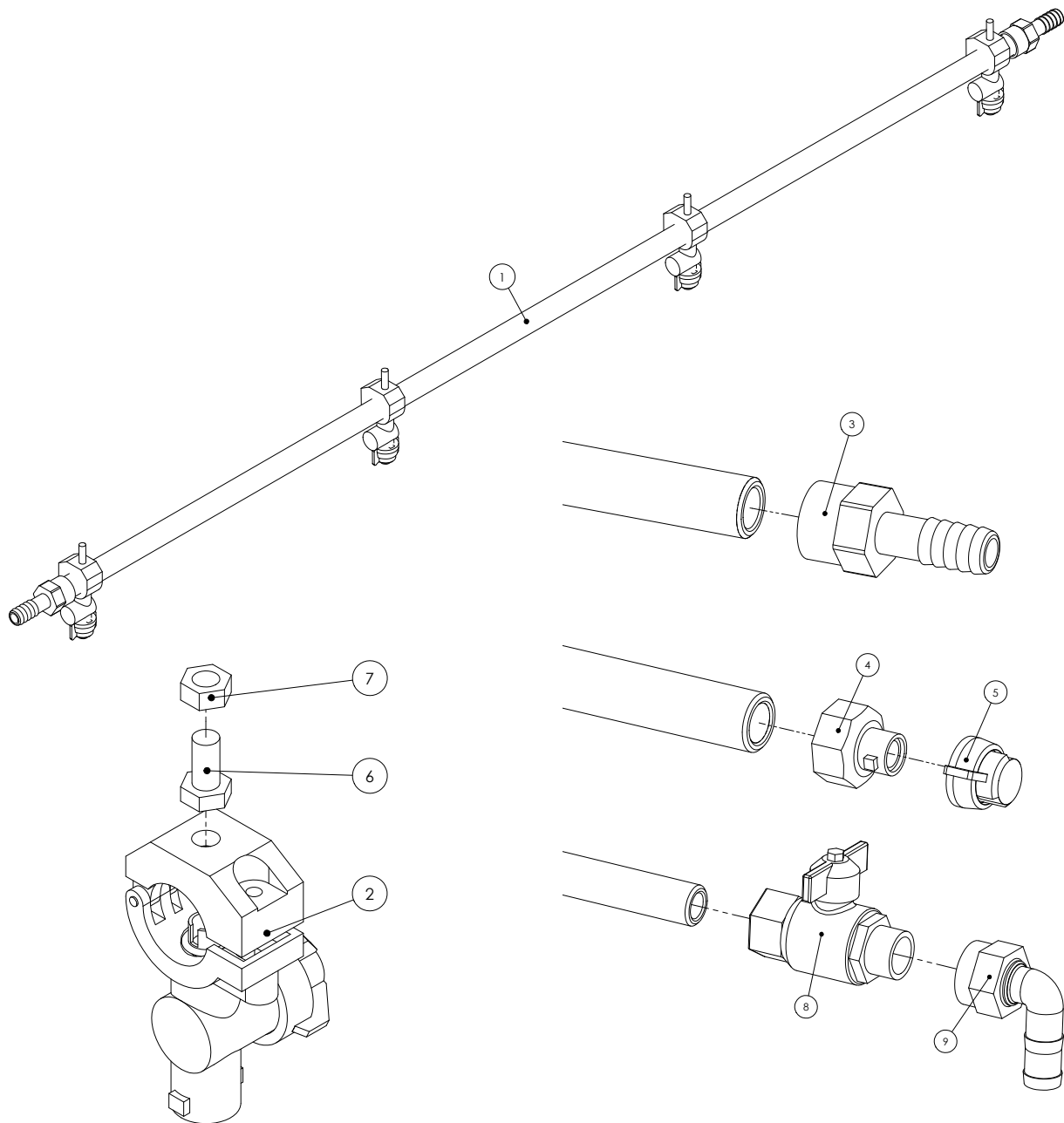
Item	Part No	Description	Quantity
1	F70799A	Boom Protector (600mm)	1
	F70287A	Boom Protector (400mm)	1
	F70294A	Boom Protector (200mm)	1
2	GA5004437	6mm Washer	4
3	GA5004103	M6 x 70mm Bolt	2
4	GA5048115	M6 Nyloc Nut	2

BOOM FOLD SUPPORT BRACKET



Item	Part No	Description	Quantity
1	GA4656284	Boom Fold Bracket	2
2	GA5011251	M12x52mmx80mm U Bolt	4
3	GA5012461	M12 Nyloc Nut	8
4	GA5000577	12mm Washer	8

# BOOM LINE PLUMBING

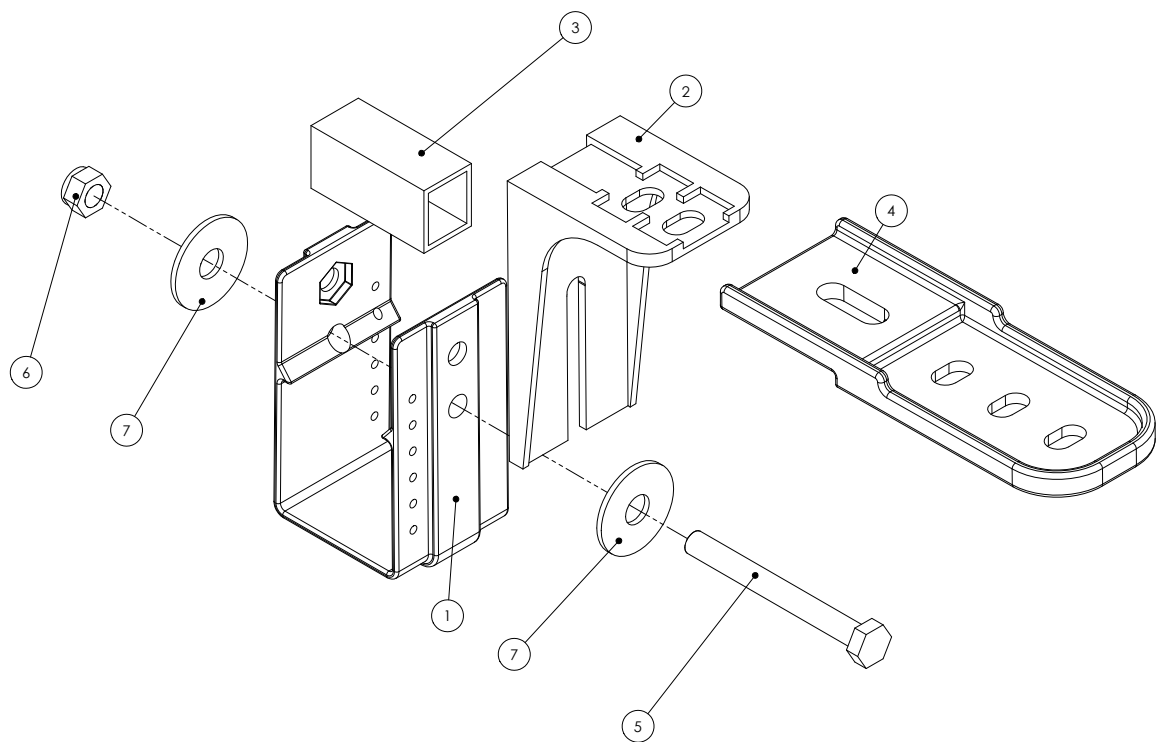


Item	Part No	Description	Quantity
1	GA5018273	4 Hole, 1600mm long	
		Poly Boom Manifold	*
	GA5018275	5 Hole, 2100mm long	
		Poly Boom Manifold	*
	GA5018279	6 Hole, 2600mm long	
		Poly Boom Manifold	*
	GA5018281	7 Hole, 3100mm long	
		Poly Boom Manifold	*
2	QJ17560A	Teejet Nozzle Body	*

\* Quantities vary

Item	Part No	Description	Quantity
3	HBFO75	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	GA	3/4" Ball Valve	*
9	HBFO75-90	3/4" Poly Elbow	*

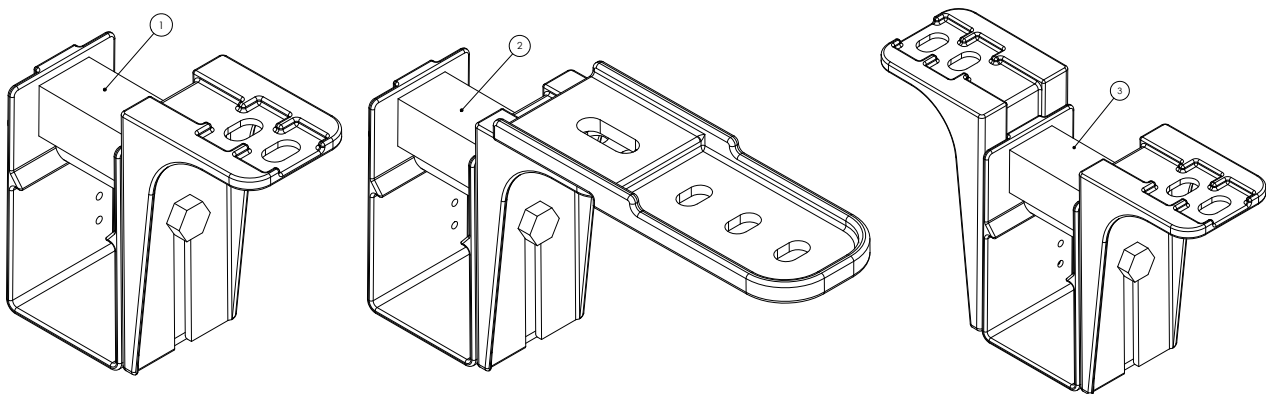
ADJUSTABLE NOZZLE BRACKETS



Item	Part No	Description	Quantity
1	GA5018259	“U” Nozzle Bracket	
		to suit 50mm RHS	1
2	GA5018257	“L” Nozzle Bracket	1
3	GA5066965	Spacer	1
4	GA5018255	Dual Boom Nozzle	
		Extension Bracket	1

Item	Part No	Description	Quantity
5	GA5004741	M8 x 75mm Bolt (S/S 304)	1
6	GA5004917	M8 Nyloc Nut	1
7	GA5002627	3/8” x 1 1/4” Washer	2

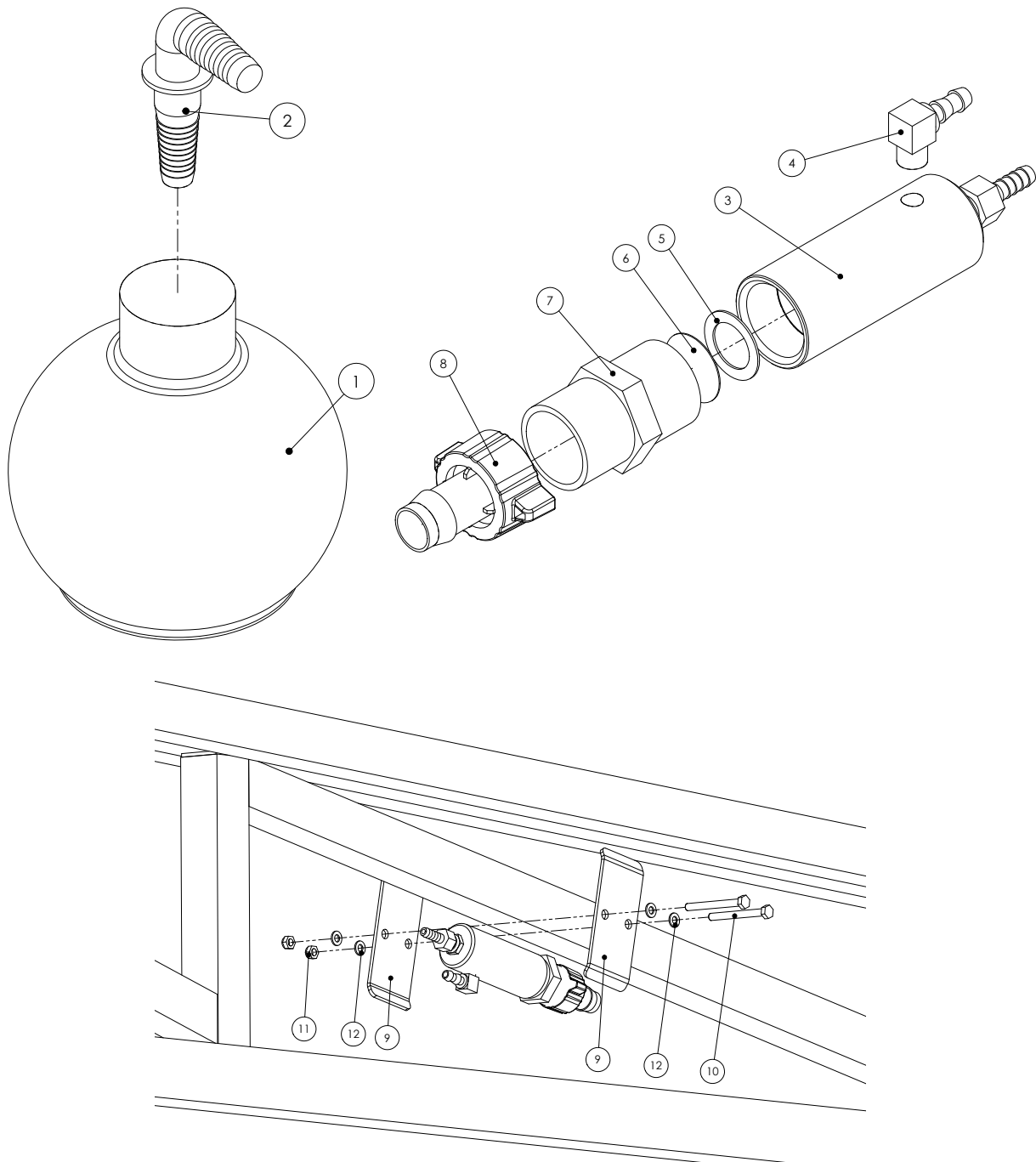
PRE PACKAGED KITS



Item	Part No	Description
1	GA4948675	Single line nozzle bracket
2	GA4948695	Dual Line nozzle bracket
		(rear side) Kit

Item	Part No	Description
3	GA4948685	Dual Line nozzle bracket
		(both sides) Kit

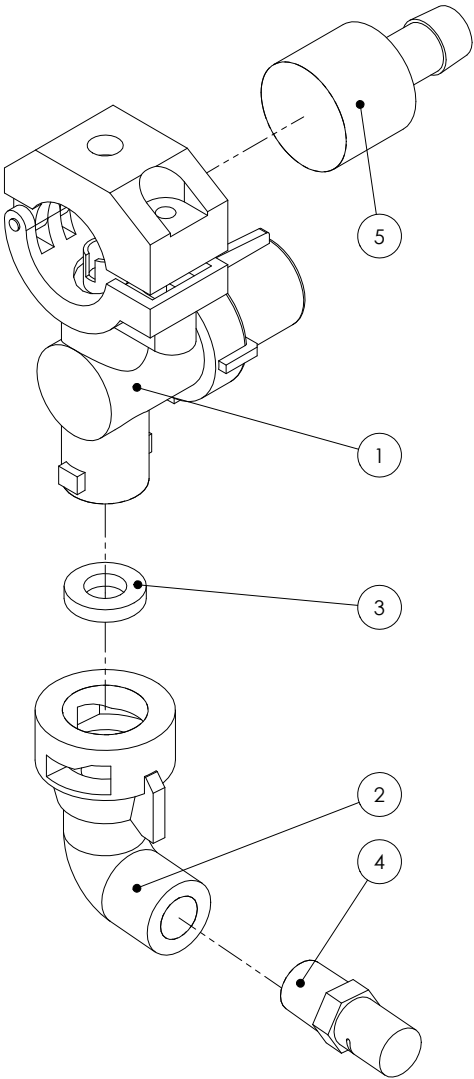
# FOAM MARKER COMPONENTS



Item	Part No	Description	Quantity
1	GA5008491	Foam Accumulator	1
2	118319	Elbow	1
3	FGEN-COM	Foam Generator Outer & Jet	1
4	GA5066950	1/4" x 1/8" Elbow	1
5	GA5002497	3/4" Copper Washer	1
6	GA4948390	Mesh Screen	1

Item	Part No	Description	Quantity
7	NIP100-SH	1" Nipple	1
8	GA5007621	19mm x 1" Barb	1
9	F70239A	Generator Bracket	2
10	GA5004097	M6 x 60mm Bolt	2
11	GA5048115	M6 Nyloc Nut	2
12	GA5004437	6mm Washer	4

# MANUAL FENCE LINE NOZZLE

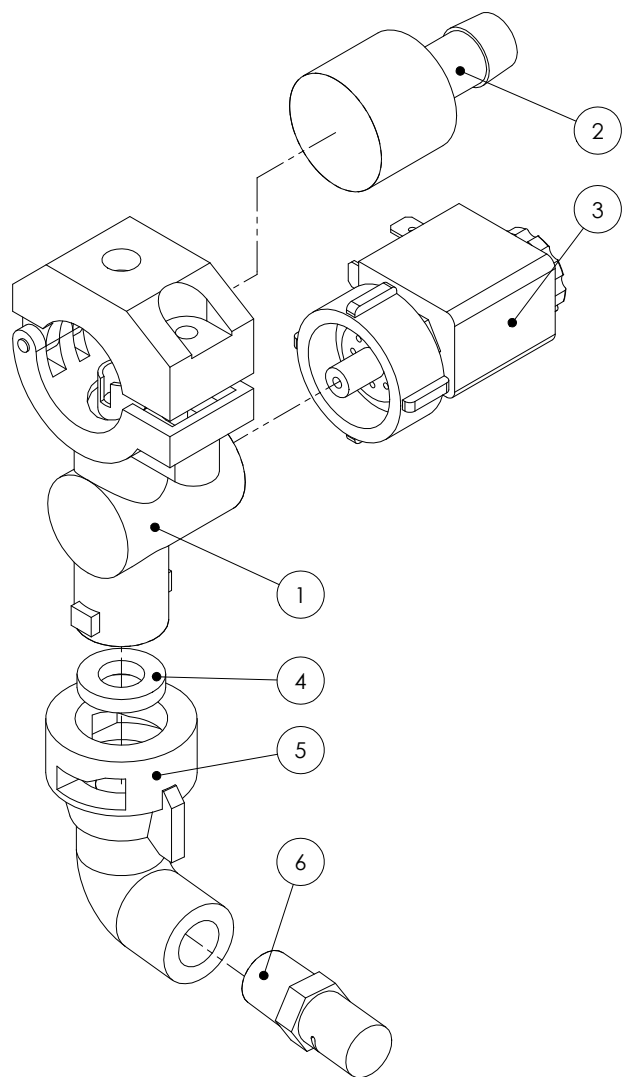


Item	Part No	Description	Quantity
1	58140-NYB	Manual Nozzle Body	1
2	QJ4676-90-1/4-NYR	90 Degree Nozzle Adapter	1
3	CPI9438-EPR	Seal	1

Item	Part No	Description	Quantity
4	BI/4XPI0L	Left Fence Line Nozzle	1
	BI/4XPI0R	Right Fence Line Nozzle	1
5	CP38936-NYB	End Barb Adapter	1



SOLENOID OPERATED FENCE LINE NOZZLE



Item	Part No	Description	Quantity
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

Item	Part No	Description	Quantity
5	QJ4676-90-1/4-NYR	90 Degree Nozzle Adapter	1
6	B1/4XP10L	Left Fence Line Nozzle	1
	B1/4XP10R	Right Fence Line Nozzle	1

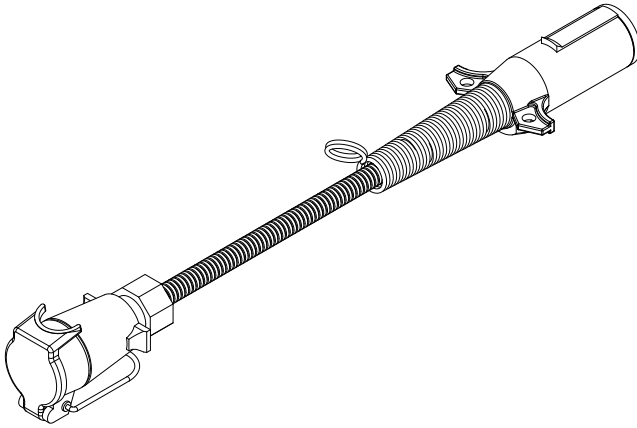
## BOOM CABLE

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Item	Part No	Description	Quantity
1	GA500073	Cable	10.33m
2	GA5000215	Cable End Loop	2
3	GA5005391	Cable Ferrule	2

# CHAPTER 15

## ELECTRICS

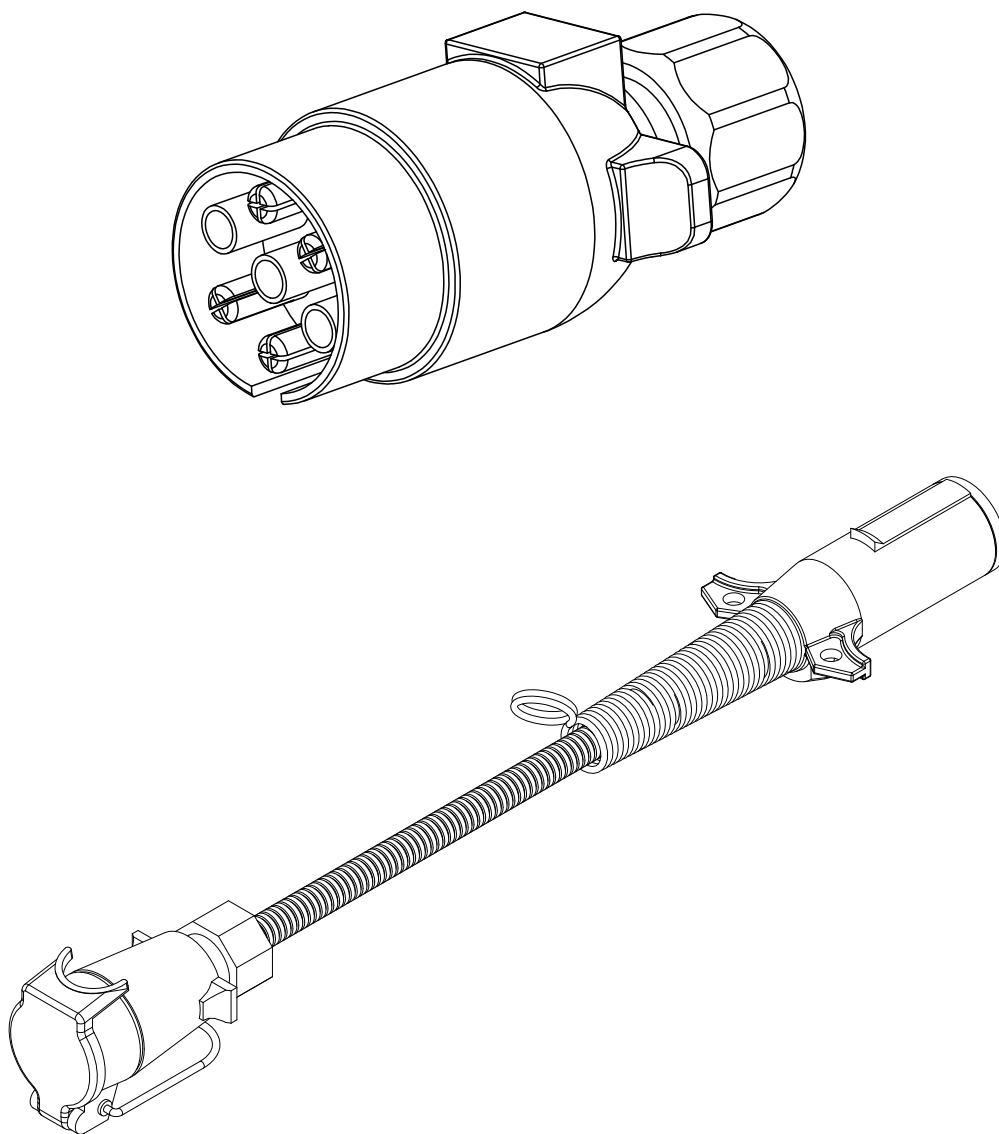


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## ELECTRICAL COMPONENTS

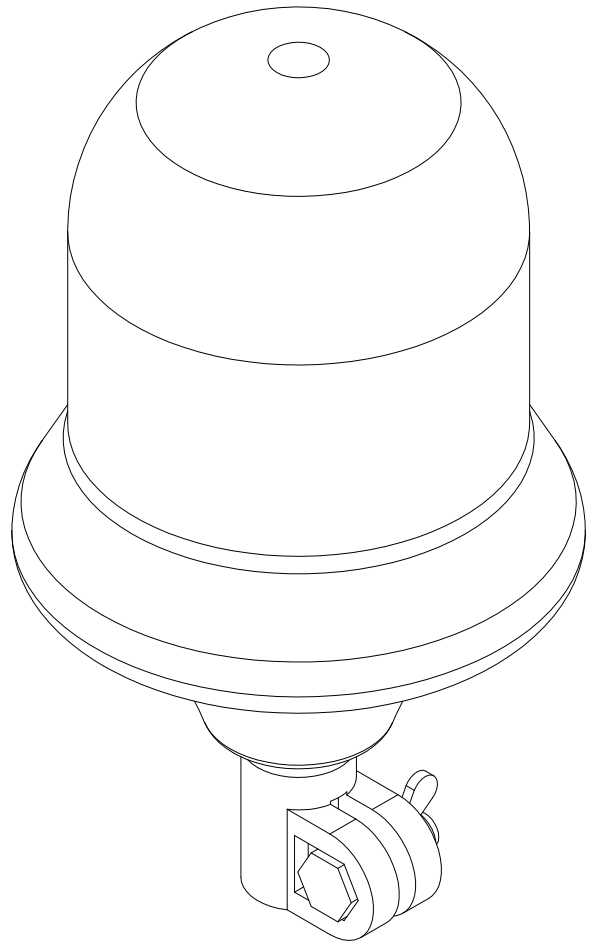
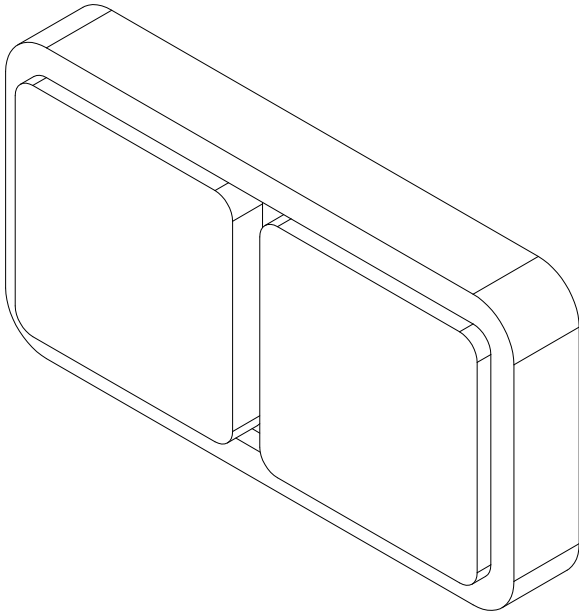
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Part No	Description
GA5004477	7 Pin Trailer Plug (Round)
GA5060350	Adpater to suit American Style Tractors

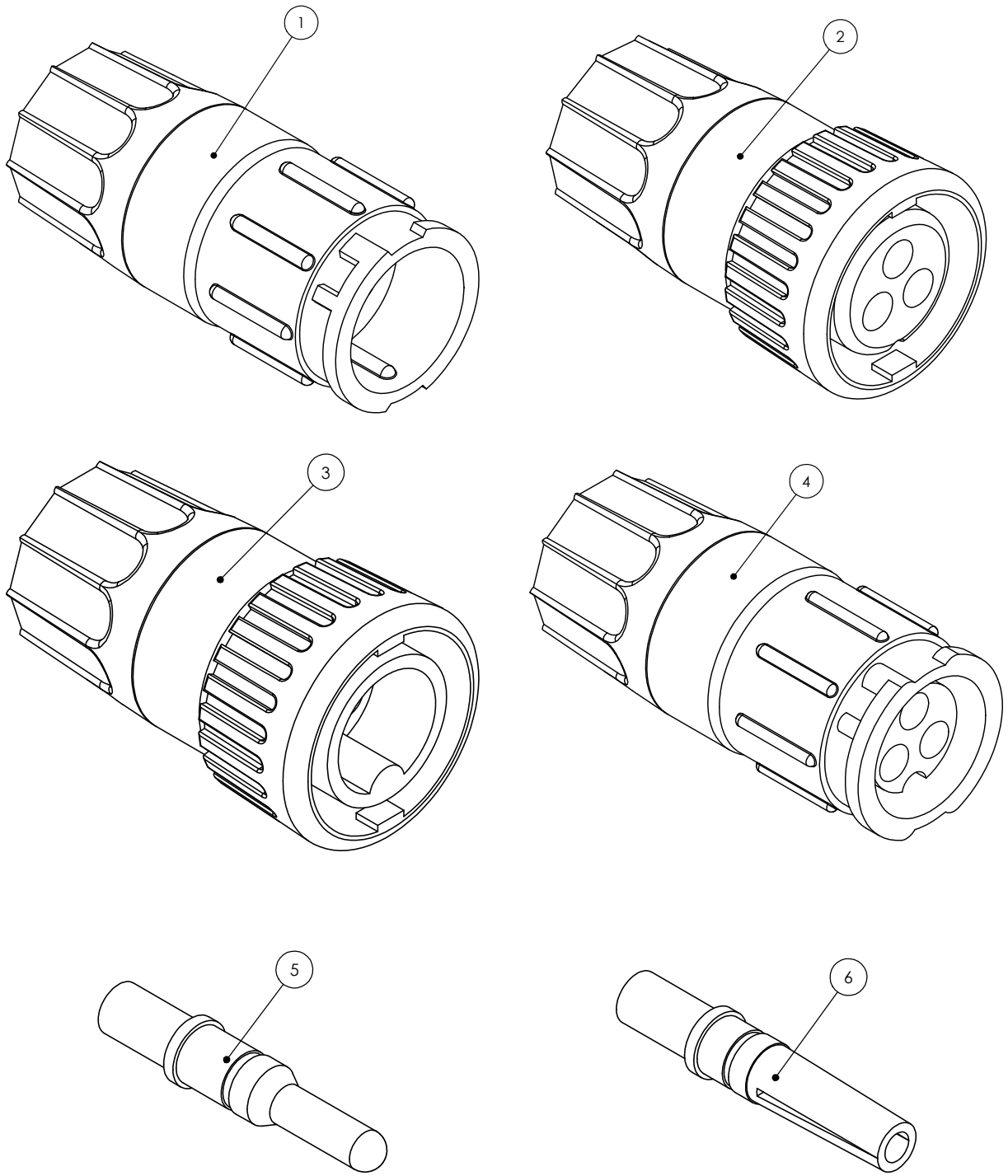
## LIGHTS

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Part No	Description
GA5018786	LED Tail Light
GA5048975	Rotating Beacon Light

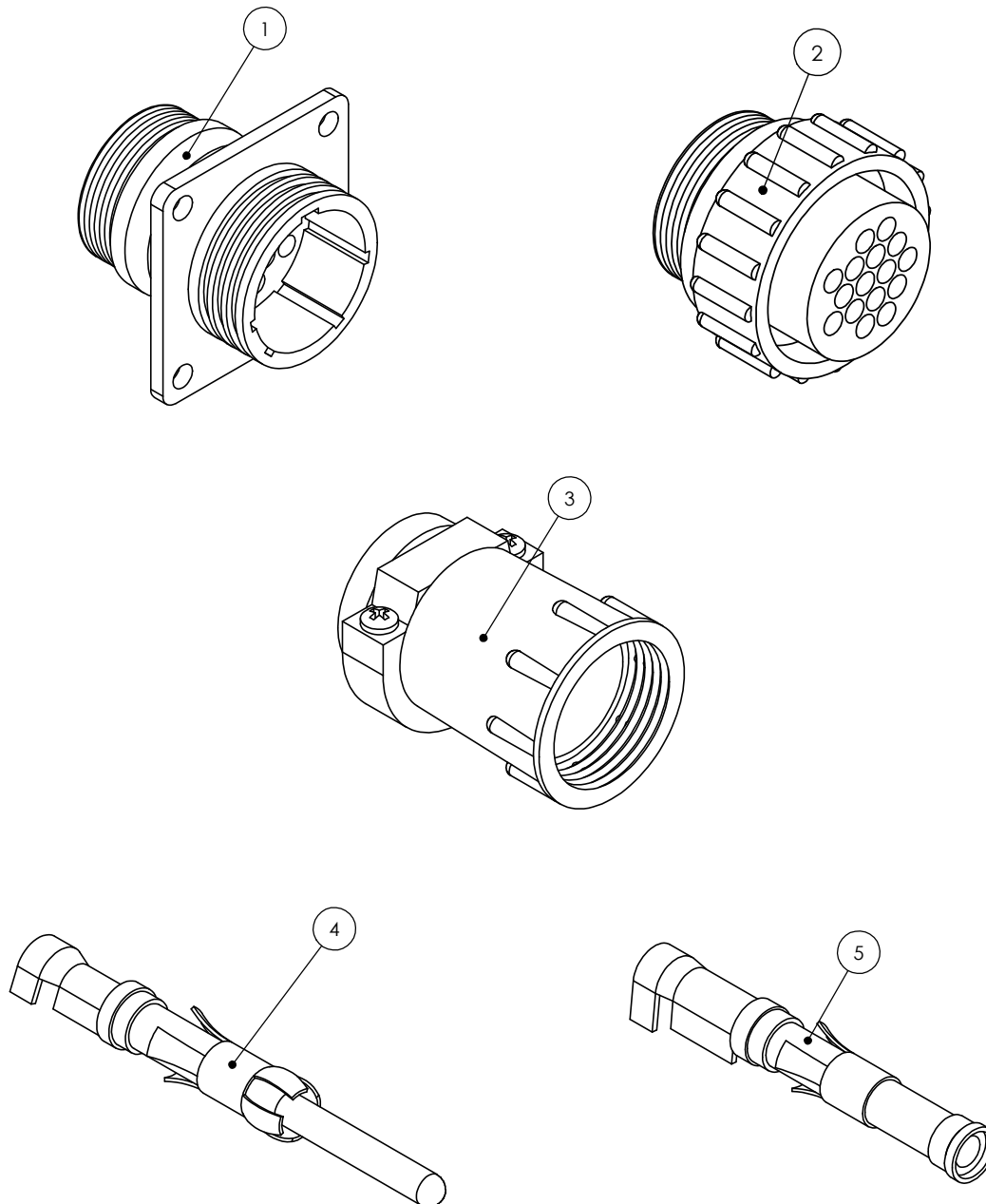
# RAVEN (AMP) ELECTRICAL CONNECTORS



Item	Part No	Description
1	4084001014	Male Flow Meter Connector
2	4084001015	Female Flow Meter Connector
3	4084004010	Male Speed Sensor Connector
4	4084001016	Female Speed Sensor Connector

Item	Part No	Description
5	4084001062	Male Pin for Flow Meter & Speed Sensor Connectors
6	408001063	Female Pin for Flow Meter & Speed Sensor Connectors

# RAVEN (AMP) ELECTRICAL CONNECTORS

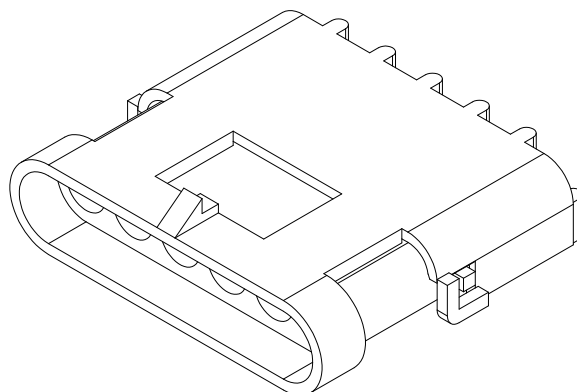
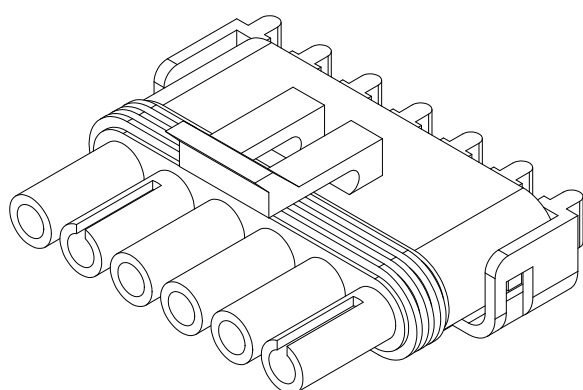
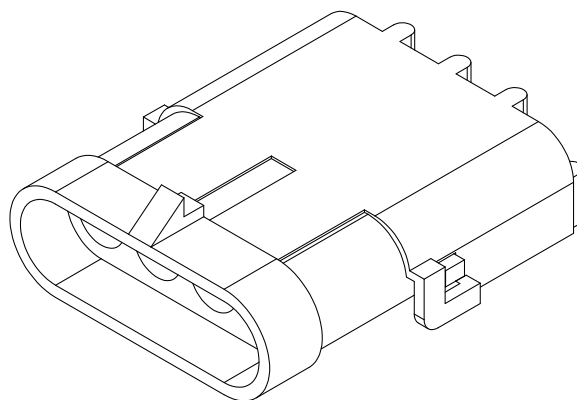
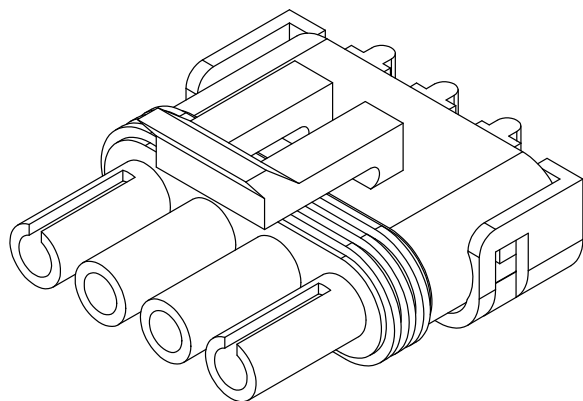
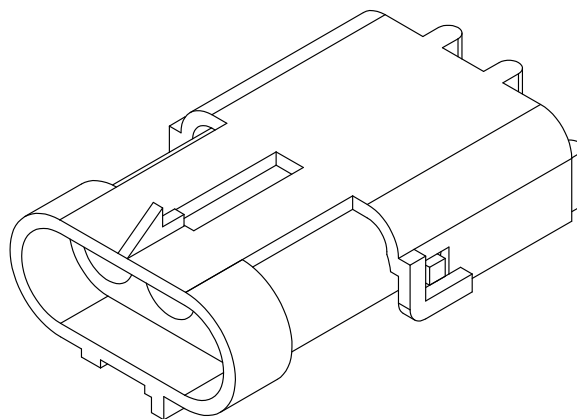
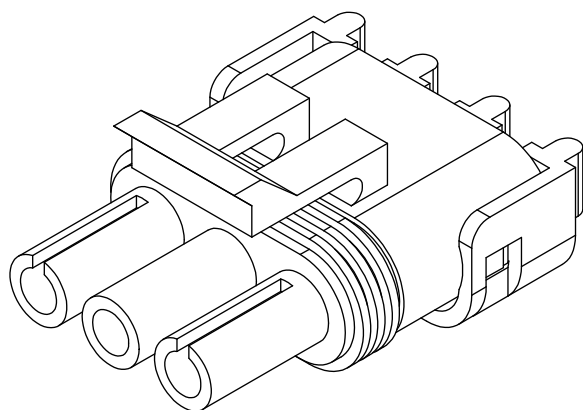
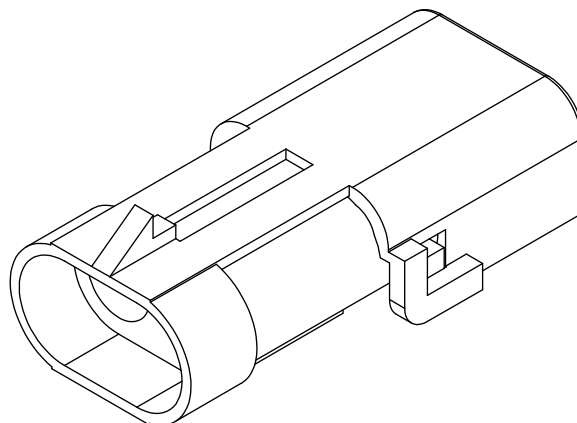
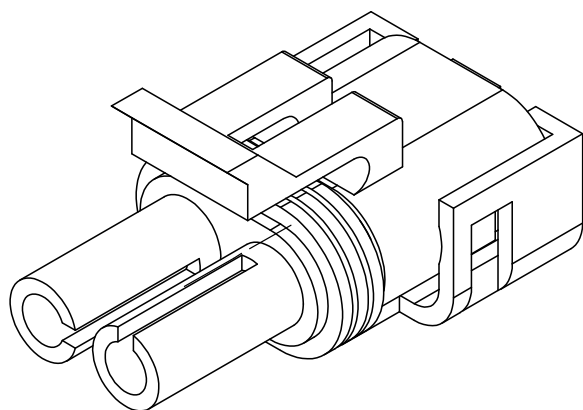


Item	Part No	Description
1	4084001017	Male Loom Connector for 440 & 450 Consoles (16 Pin)
2	4084001018	Female Loom Connector for 440 & 450 Consoles (16 Pin)
3	GA5049175	Backing Shell for 16 Pin Connectors

Item	Part No	Description
4	GA5048905	Gold Male Pin For Raven Loom Connectors
5	GA5048900	Gold Female Pin for Raven Loom Connectors

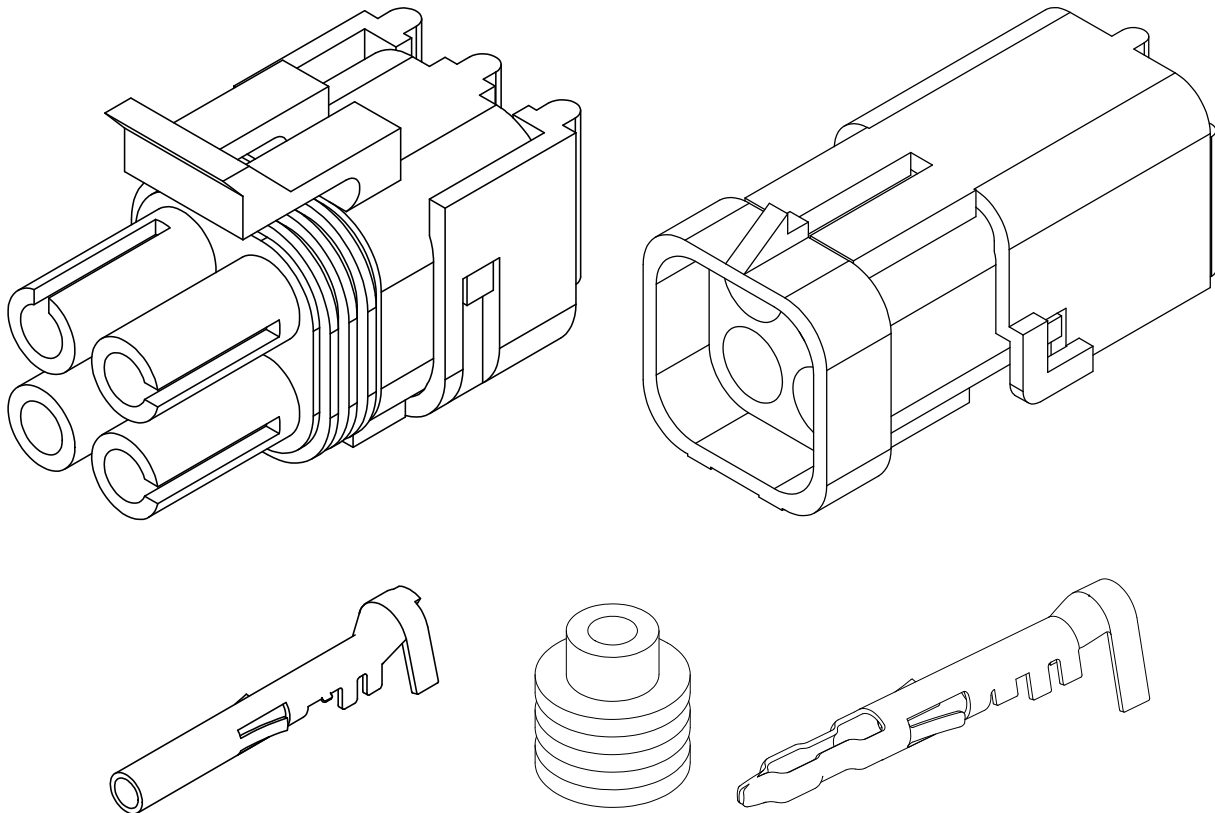
## ELECTRICAL CONNECTORS

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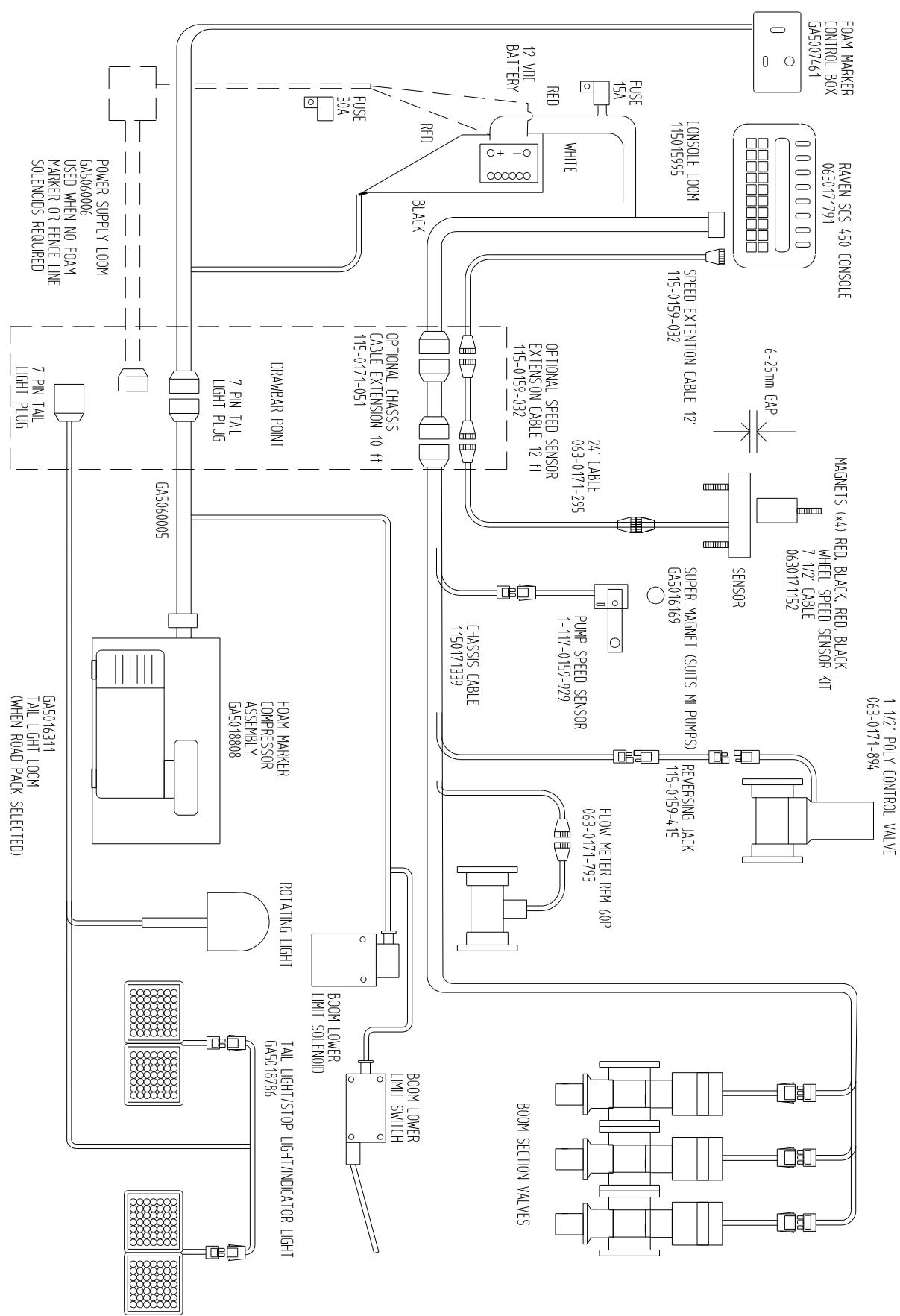
## ELECTRICAL COMPONENTS



Part No	Description
GA5001351	Male 2 Pin Plug
GA5007381	Female 2 Pin Plug
GA5002211	Male 3 Pin Plug
GA5048550	Female 3 Pin Plug
GA5007385	Male 4 Pin Flat Plug
GA5007383	Female 4 Pin Flat Plug
GA5004009	Male 6 Pin Plug

Part No	Description
GA5002663	Female 6 Pin Plug
GA5049000	Male 4 Pin Square Plug
GA5050805	Female 4 Pin Square Plug
GA5016619	Female Type Pin
GA5014857	Rubber Seal (Green)
GA5016617	Male Type Pin

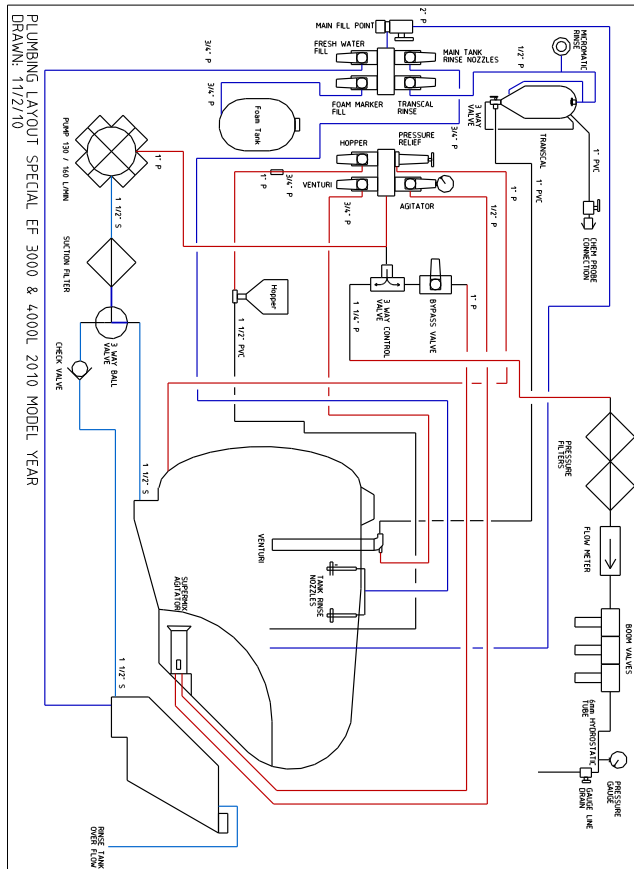
WIRING DIAGRAM



# CHAPTER 16

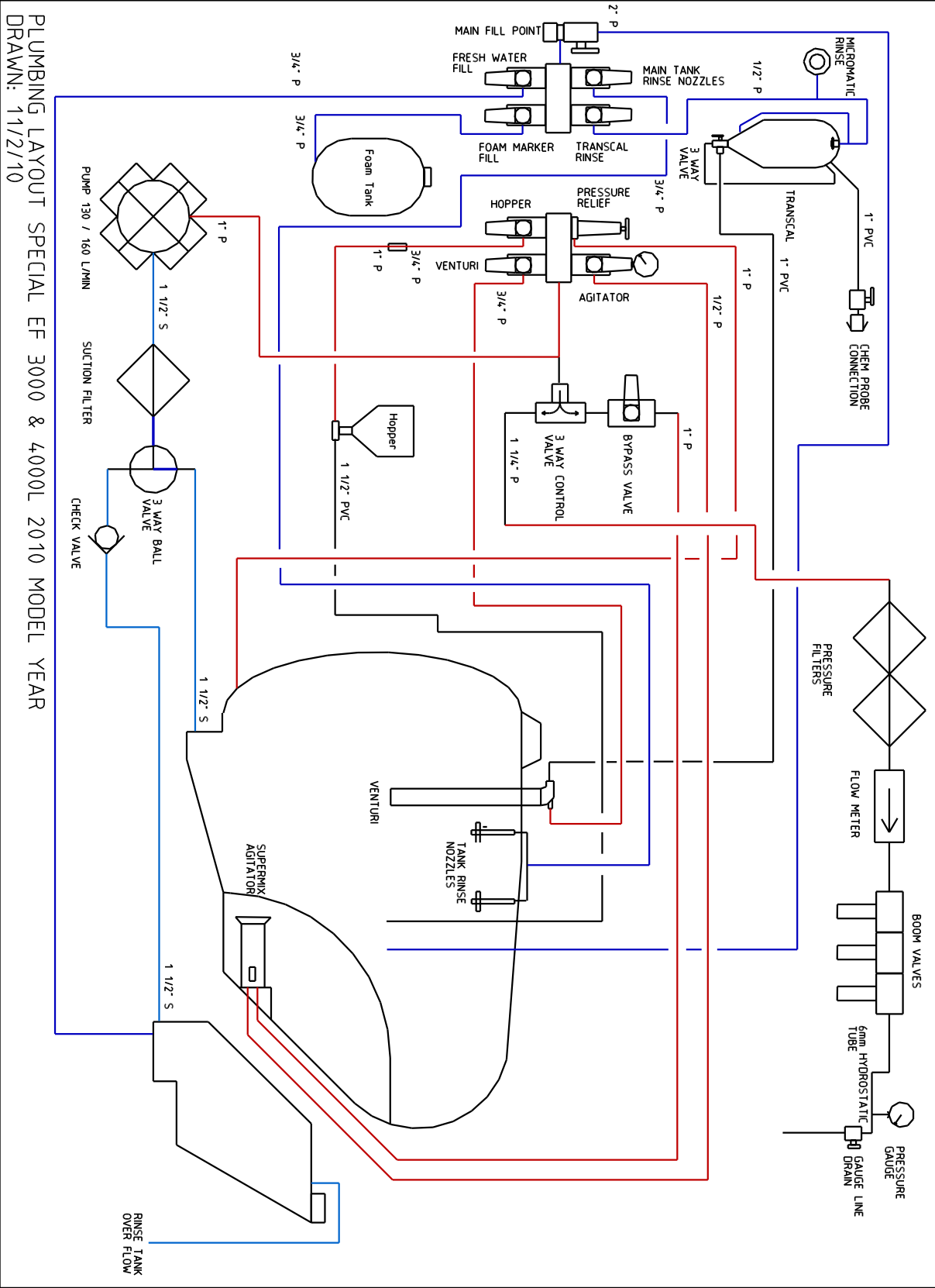
## SCHEMATICS

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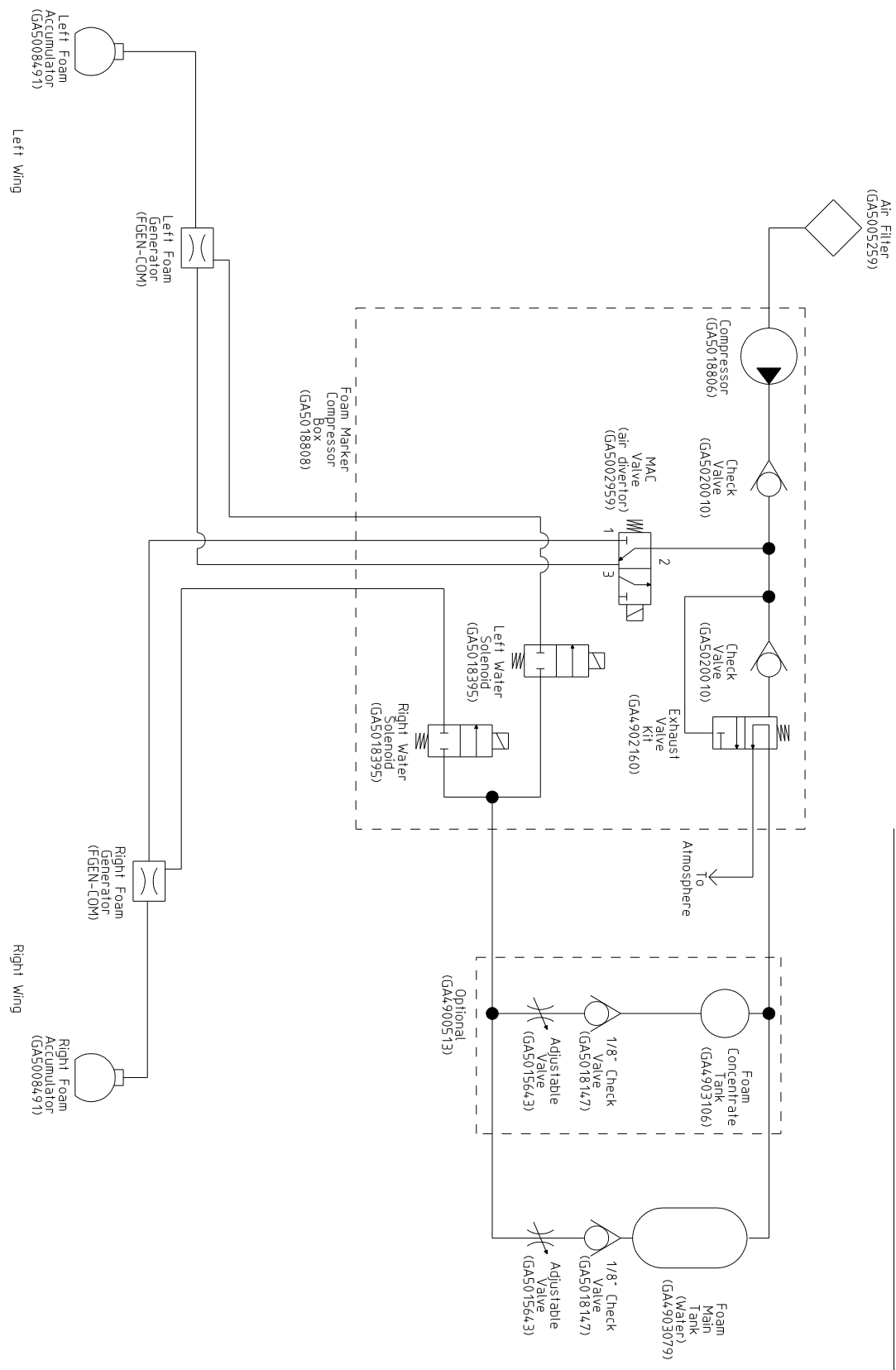


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PLUMBING SCHEMATIC



# FOAM MARKER SCHEMATIC





# CHAPTER 17

## DECALS



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DECAL KITS



Part No	Description
GA5062620	Standard Decal Kit



Part No	Description
GA5062621	Optional Decal Kit



## MAIN TANK DECALS



Part No	Description
GA5063160	Special EF 3018
GA5063165	Special EF 3020

Part No	Description
GA5063170	Special EF 3021
GA5063175	Special EF 3024

## EZ CONTROL MANIFOLD DECAL



Part No	Description	Quantity
GA5062820	EZ control manifold decal	1

## WHEEL NUT WARNING DECAL



Part No	Description	Quantity
GA5017555	Wheel Nut Warning Decal	2

## ALUMINIUM BOOM DECAL

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Part No	Description	Quantity
GA5005385	Aluminium Boom Decal	2

## KEEP HANDS CLEAR DECAL

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Part No	Description	Quantity
GA5015991	Keep Hands Clear Decal	4



## DRAIN ONLY DECAL

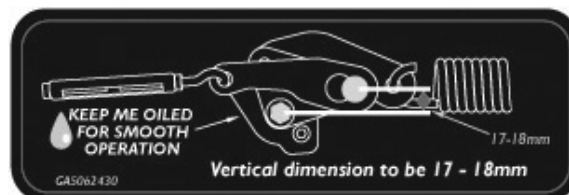
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Part No	Description	Quantity
GA5015971	Drain Only Decal	2



## BREAK AWAY DECAL

Part No	Description	Quantity
GA5062430	Breakaway Decal	2



## GREASE DECAL

Part No	Description	Quantity
GA222	Grease Decal	32



## MAIN SPRAYER DECAL



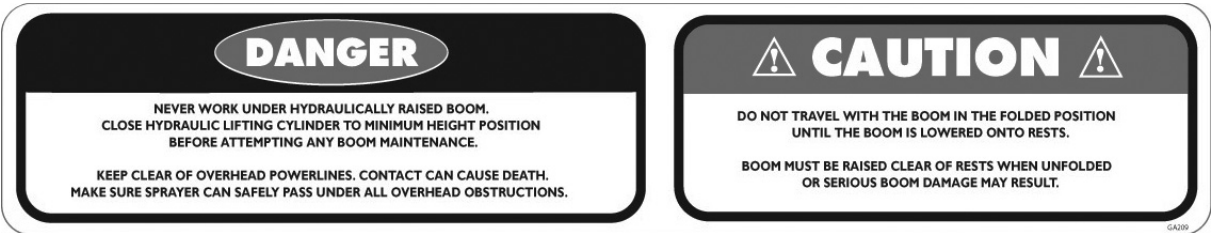
Part No	Description	Quantity
GA270	Main Sprayer Decal	1

## SPRAYER STEPS DECAL



Part No	Description	Quantity
GA210	Do Not Enter Tank Decal	1

## BOOM DANGER DECAL



Part No	Description	Quantity
GA209	Boom Danger Decal	1

## FLUSH WATER LID DECAL



Part No	Description	Quantity
GA5062475	Flush Water Only Decal	1

## HAND WASH BOTTLE DECAL

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Part No	Description	Quantity
GA5062480	Hand Wash Only Decal	1

## FOAM MARKER LID DECAL

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Part No	Description	Quantity
GA5062470	Foam Marker Lid Decal	1

## FOAM CONCENTRATE DECAL

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Part No	Description	Quantity
GA5062485	Foam Concentrate Decal	1



TRANSCAL DECAL



Part No	Description	Quantity
GA5062085	Transcal Tank Decal	1

INDUCTION HOPPER DECAL



Part No	Description	Quantity
GA5062095	60L Induction Hopper Tank Decal I	
GA5062100	40L Induction Hopper Tank Decal I	
GA208	Induction Hopper Warning Decal I	

## DECAL PLACEMENT LIST

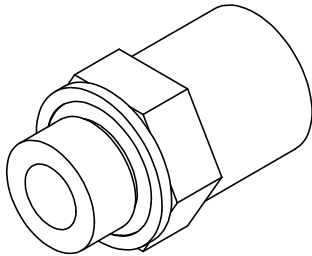
Part No	Position on Sprayer
GA5062351	On the sides on the main tank
GA5062820	On the front of the plumbing control station located on the left side of the sprayer
GA5017555	On the outside face of both wheels
GA5005385	On the top chord of the outer aluminium wing sections
GA5015991	On the outside of the top paralift arm
GA5015971	On the chassis in front of the left wheel
GA5062430	On the breakaway end mechanism
GA222	On all paralift pivot points, On all delta link pivot points, On all boom pivot points, On outside face of jack
GA270	On the pull directly behind the toweye
GA210	On the chassis directly below the h-frame steps
GA209	On the rear cross member of the chassis
GA5062475	On top of the fresh water tank around the lid
GA5062480	On the handwash bottle
GA5062470	On the top of the foam marker tank around the lid
GA5062485	On the foam marker concentrate tank
GA5062085	On the outside of the transcal tank
GA5062095	On the outside of the 60L Hopper
GA5062100	On the outside of the 40L Hopper
GA208	On the chassis next to the hopper mount





# CHAPTER 18

## HYDRAULICS



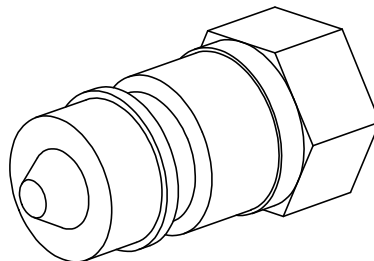
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Hose ID Tags . . . . .	18-3
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Hydraulic Hoses . . . . .	18-4
Boom Lower Control Solenoid . . .	18-5
Hydraulic Cylinder Seal Kits . . . . .	18-6

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## QUICK RELEASE COUPLINGS

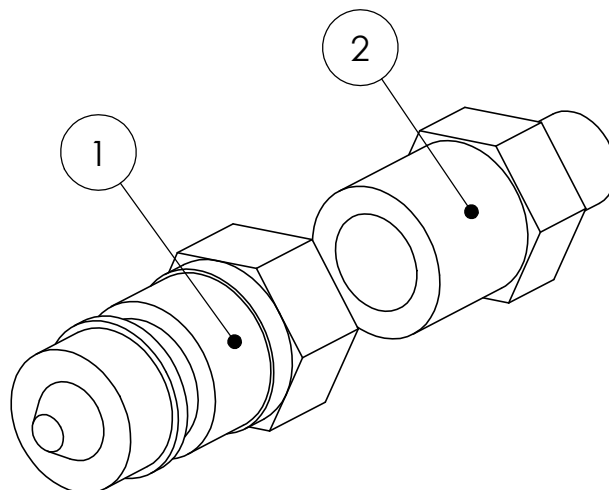
### 1/2" Hydraulic Lines

Item	Part No	Description
1	R81-08M	1/2" BSPP Female Push/Pull Quick Release Coupling



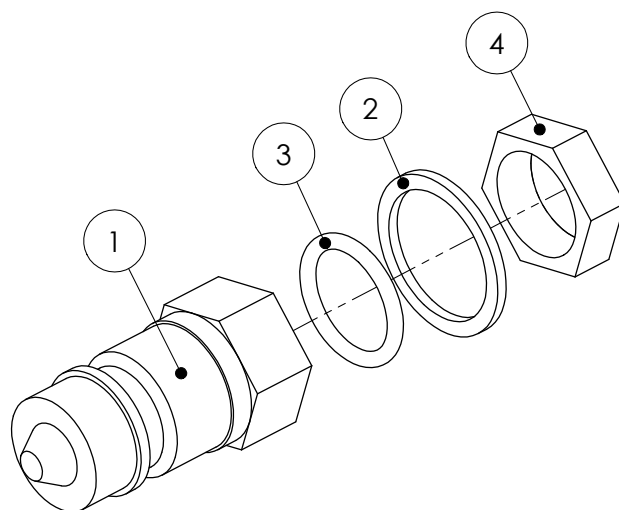
### 1/4" Hydraulic Lines

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



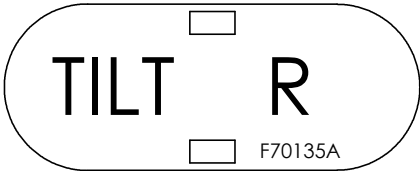
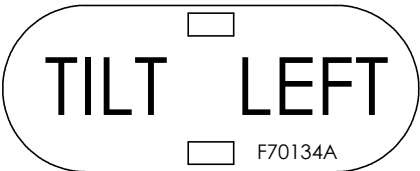
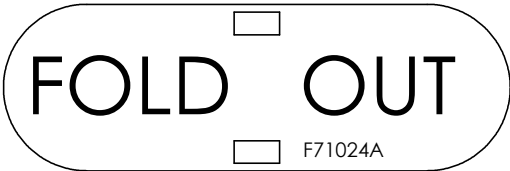
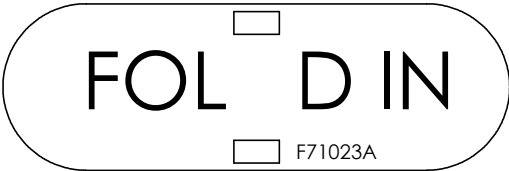
### Hydraulic Pump Lines

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



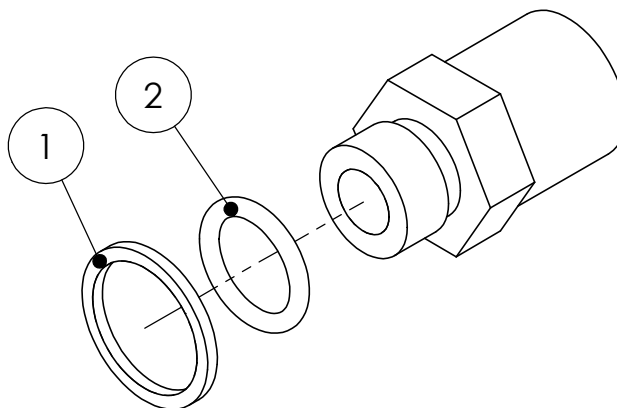
Note: Plastic Cover for when fittings are not in use is available Part No: GA5052365

# 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

## HYDRAULIC O-RINGS AND RETAINING WASHERS



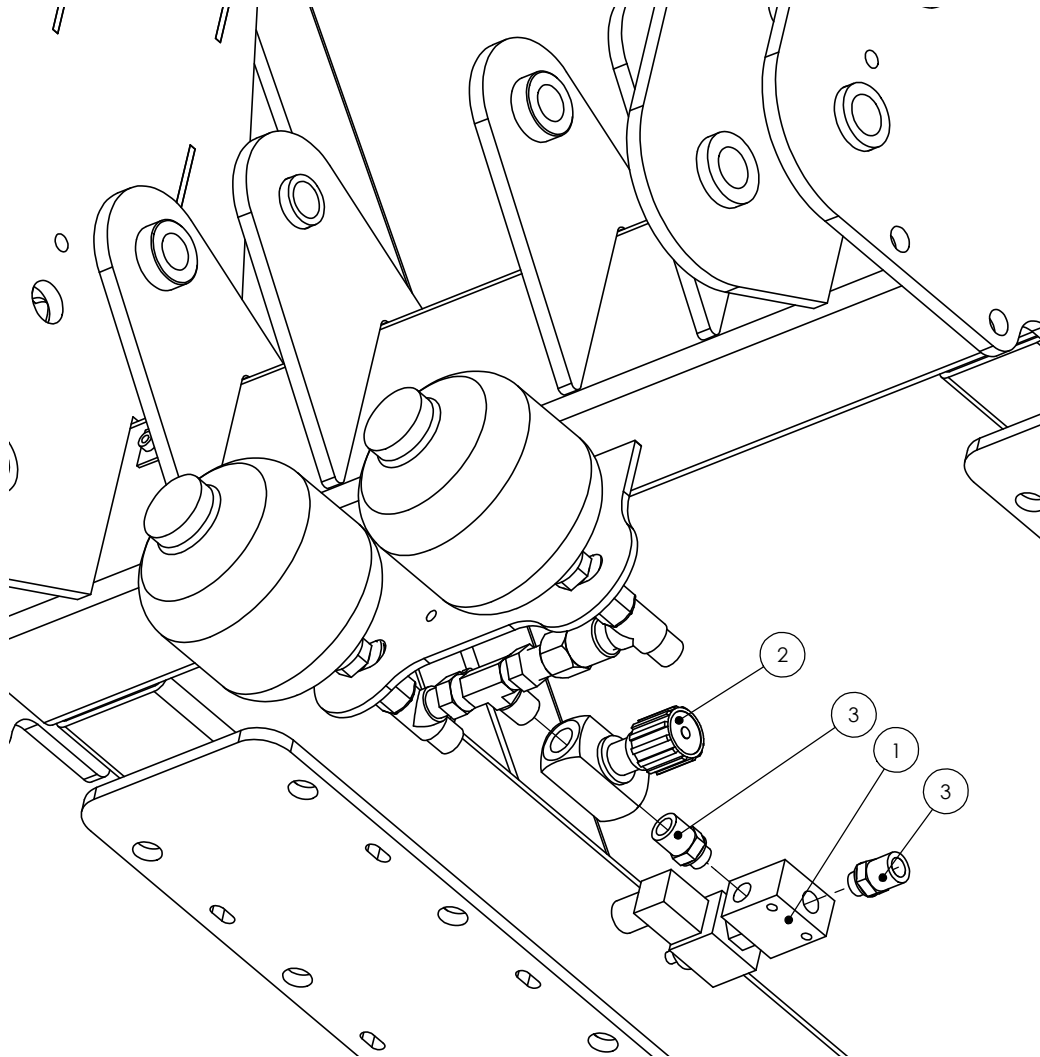
Item	Part No	Description
1	36B-04	1/4" Retaining Washer
	36B-06	3/8" Retaining Washer
	36B-08	1/2" Retaining Washer
	36B-12	3/4" Retaining Washer

Item	Part No	Description
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 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

## BOOM LOWER CONTROL SOLENOID



Item	Part No	Description	
1	GA5047344	Boom Lower Control Solenoid	1
2	GA5018221	Needle Valve	1
3	S75-0806	3/8" x 1/2" Hydraulic Nipple	2

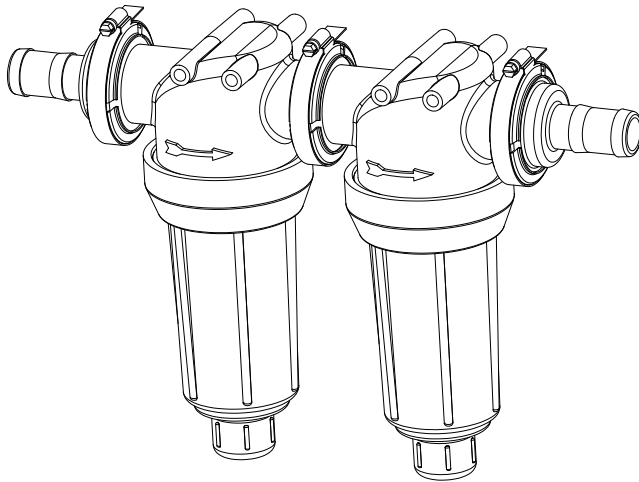
## HYDRAULIC CYLINDER SEAL KITS

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Part No	Description
GA5052730	Tilt Cylinder Seal Kit
GA5052740	Lift Cylinder Seal Kit

# CHAPTER 19

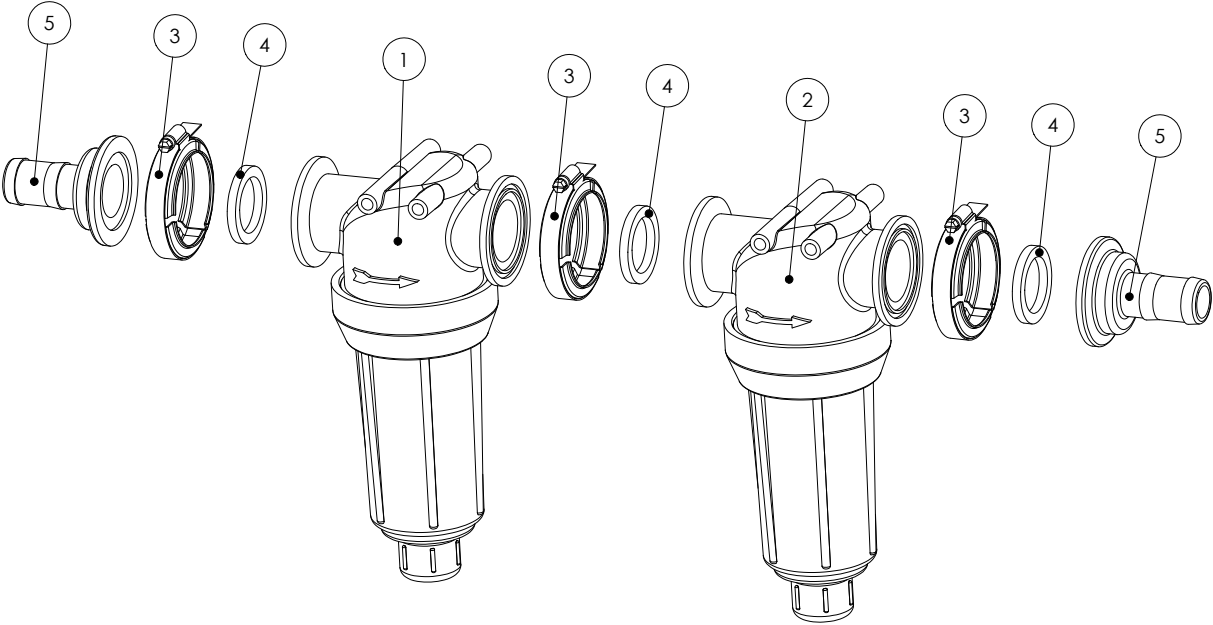
## FILTRATION & HOSE



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Hose Clamps.....	19-8

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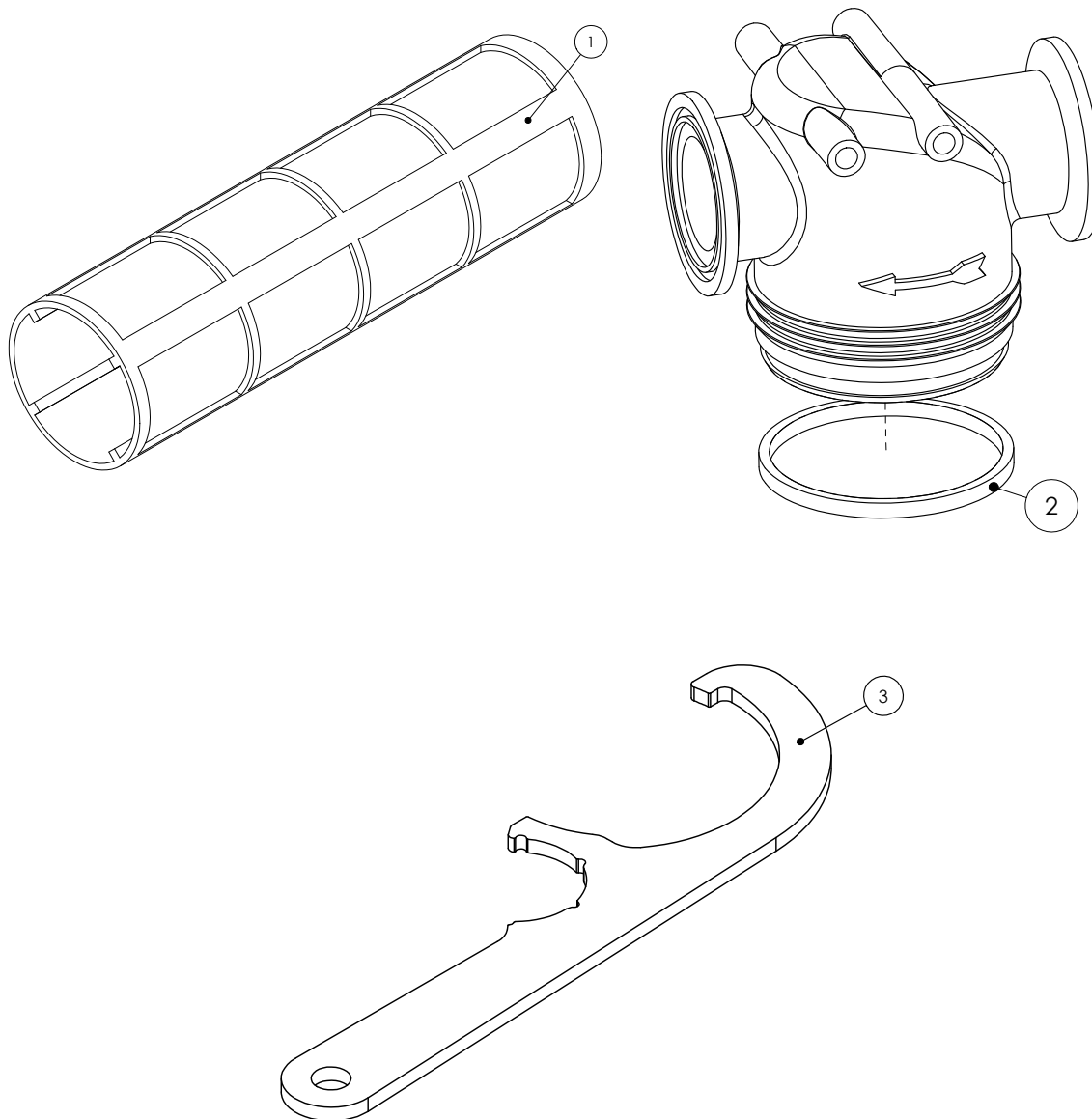
PRESSURE FILTERS



Assembly Part No: GA4903065-EF			
Item	Part No	Description	Quantity
1	AAB126ML-F75-80	Filter w/ 80 Mesh Screen	1
2	AAB126ML-F75-100	Filter w/ 100 Mesh Screen	1
3	FC200	Screw Clamp	3
4	I50G	Gasket	3
5	M200125BRB	1 1/4" Hose Barb to Flange	2

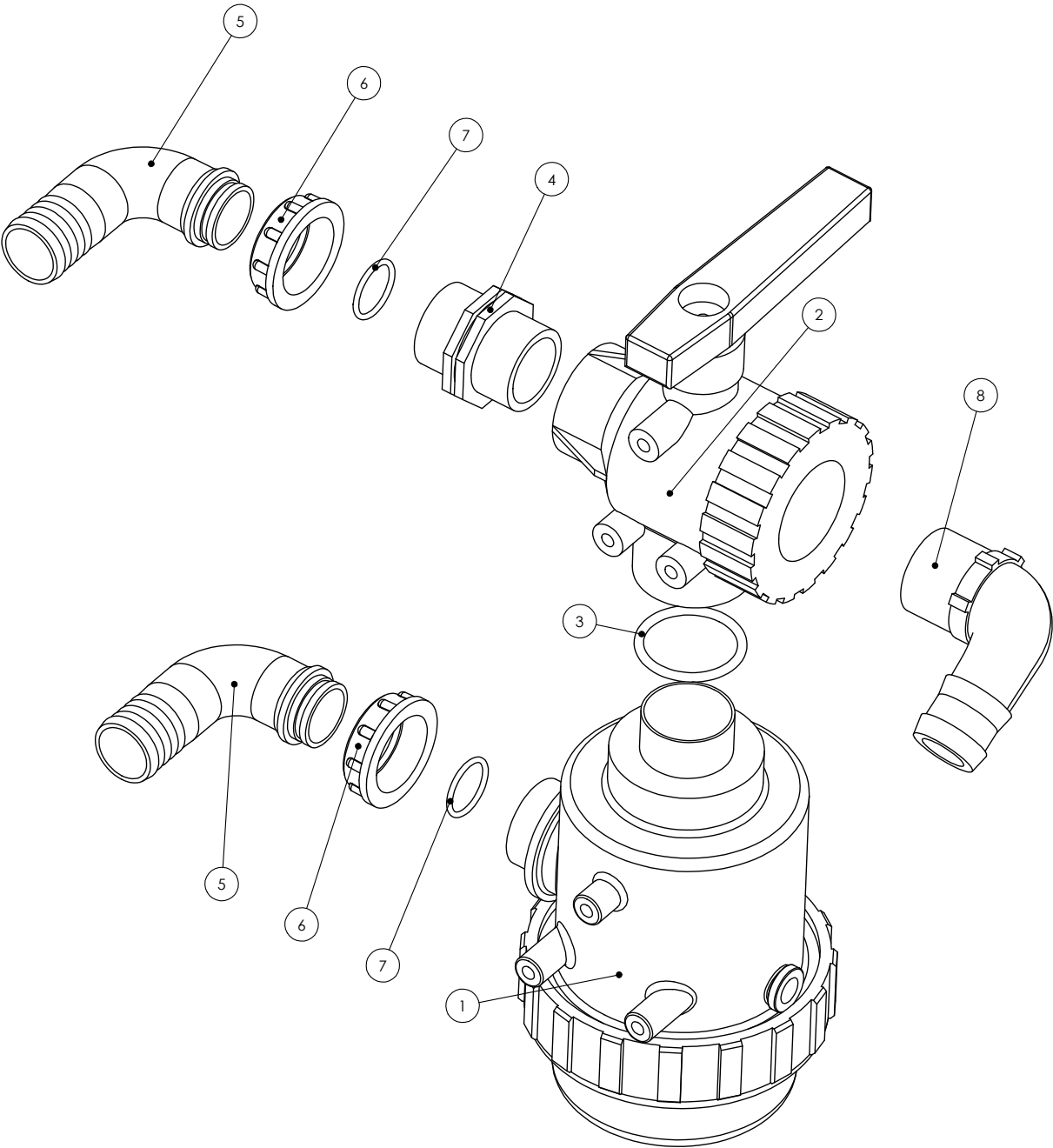


# REPLACEMENT PRESSURE FILTER PARTS



Item	Part No	Description	Quantity
1	CPI5941-4-SSPP	80 Mesh Screen (Blue)	
	CPI5941-5-SSPP	100 Mesh Screen (Green)	
2	CP48656	Filter Bowl Seal	
3	GA4522610	Tool for Removing Pressure	
		Filter Housing	

SUCTION FILTER



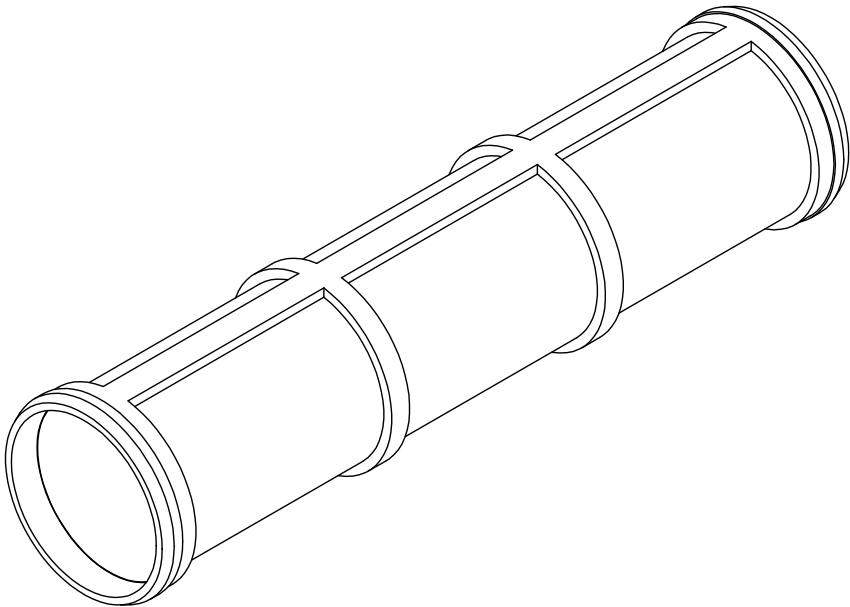
Assembly Part No: GA4903825			
Item	Part No	Description	Quantity
1	316063	1 1/2" Suction Filter w/ 50 Mesh*	1
2	4542236	1 1/2" 3 Way Ball Valve	1
3	GA5009187	50mm O-Ring	1
4	2502060	1 1/2" Poly Nipple	1

Item	Part No	Description	Quantity
5	116640	1 1/2" Poly Elbow	2
6	2002060	1 1/2" Fly Nut	2
7	G10061	29mm x 3mm O-Ring	2
8	HB150-90	1 1/2" Poly Hose Barb Elbow	1

\*Note: 50 Screen available separately Part No: 316003.030, other screens are available upon request.

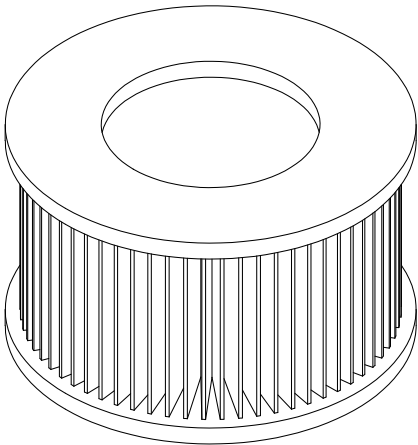
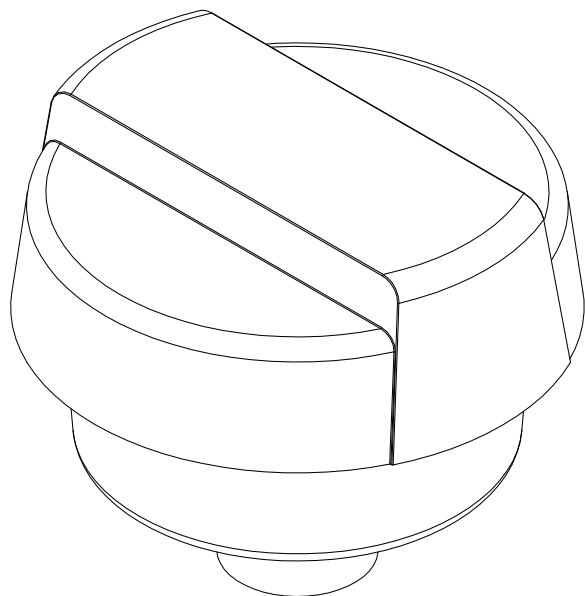
# FOAM MARKER FILTER

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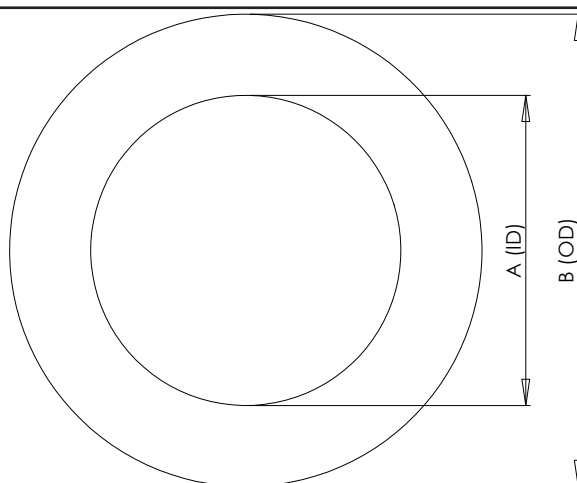
Part No	Description
CPI6903-7-SSPP	200 Mesh Screen for Foam
	Marker use only

AIR FILTER



Part No	Description
GA5005259	Air Filter Housing & Element
GA5049460	Air Filter Element

# HOSES



## Suction Hose

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

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

## Pressure Hose

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

Pressure hose can be defined by its blue internal layer

## PVC Hose

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

PVC hose can be defined by its ribbed outside finish

## Sight Tube Hose

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

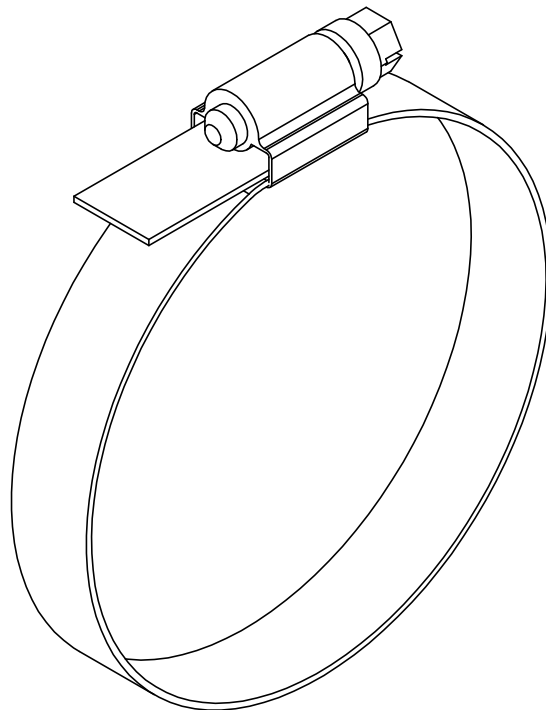
## Layflat Hose

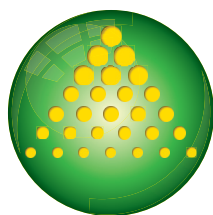
Part No	Description	Internal Diameter (A)	Outside Diameter (B)
GA5021395	50mm Blue Layflat Hose	50mm	N/A

## 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





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