



# Prairie Pro

## Parts Manual MY19



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FROM SERIAL #202113



# GOLDACRES

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## GOLDACRES - RESELLER TERMS AND CONDITIONS OF SALE

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

### Interpretation

- In terms and conditions:
- "Goldacres" 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 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 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 endorsed by the Managing Director of Goldacres Trading P/L.

### Additional Terms and Conditions

- From time to time Goldacres 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 quotations.

- Unless previously withdrawn, Goldacres quotations are open for acceptance within the period stated therein or, when no period is stated, with 14 days only of the quotation date.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

### Packing

- 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 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 or form any claim against Goldacres. 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' price is made on estimates of quantities required. Should there be any adjustments in quantities above or below the quantities estimated by Goldacres 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 are estimates only. Goldacres 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 decision and responsibility of the Purchaser and the user of the Goods. Goldacres 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 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 shall not be liable for late delivery, non-delivery or delay and under no circumstances shall Goldacres be liable for any loss, damage or delay occasioned by the Purchaser or its customers arising from the late or non-delivery or late installation of the Goods.

### Loss or damage in transit

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

### Limit of Liability

- (1) Goldacres liability for Goods manufactured by it is limited to:
  - where the law imposes consumer guarantees in 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 breaches a consumer guarantee, the loss and damage the Purchaser is entitled to at law which cannot be excluded by these terms and conditions;
- and, in all other cases:
  - making good any defects by repairing the same or at Goldacres 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 material 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;
    - 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) has been approved in writing by Goldacres;
    - no contamination or leakage has been caused or induced;
    - any modification to the Goods have been authorised in writing by Goldacres;
    - 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 at the time of the claim;
  - the defective Goods or any damaged part of the Goods are promptly returned free of cost to Goldacres or a representative of Goldacres; (xviii) all warranty related repairs have been carried out with the prior authorisation of Goldacres;
- If Goods or any part thereof are not manufactured by Goldacres 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 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 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 shall not be liable for and the Purchaser releases Goldacres from any claims in respect of faulty or defective design of any Goods supplied unless such a design has been wholly prepared by Goldacres and the responsibility for any claim has been specifically accepted by Goldacres in writing and in any event Goldacres 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 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 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.

- Goldacres 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, all prices quoted by Goldacres 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 resulting on that date and any alterations thereto either before acceptance of 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 service 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 forgiveness of the debt incurred by the Purchaser.

### Interest on overdue payments

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

### Rights in relation to Goods.

- (1) Title to the Goods supplied by Goldacres to the Purchaser shall remain with Goldacres until the total amount due in respect of the Goods and all monies owing to Goldacres 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 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;
  - 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 as bailee, fiduciary agent and trustee for Goldacres, 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;
  - 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' legal or beneficial interests; and
  - it must account to Goldacres 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 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 may trace the Proceeds in equity.
- Goldacres 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 reasonably believes the Goods may be stored, and repossess the Goods without liability for any damaged caused, and subsequently dispose of the Goods at Goldacres' discretion if:

- the Debts are not paid in accordance with these terms and conditions or any other contract or arrangement between Goldacres and the Purchaser; or
- Goldacres 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 sells the Goods, Goldacres 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 are disposed of by the Purchaser or an insurance claim is made in respect of them, Goldacres 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.
- 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 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.
- The Purchaser acknowledges that Goldacres 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 under these terms and conditions.
- The Purchaser will execute documents and do such further acts as may be required by Goldacres to register the security interest granted to Goldacres under these terms and conditions under the PPSA.
- Until ownership of the Goods passes, the Purchaser must not give to Goldacres a written demand or allow any other person to give Goldacres a written demand requiring Goldacres to register a financing charge statement under the PPSA in respect of Goldacres' interest in the Goods.
- The Purchaser must indemnify Goldacres and on demand reimburse Goldacres for all costs and expenses incurred by Goldacres in respect of these terms and conditions including but not limited to Goldacres 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 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 to retain Goods (section 135(2));
  - to object to any proposal of Goldacres 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 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 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' 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 reserves the right to make a reasonable charge for storage if delivery instructions are not provided by the Purchaser within (14) fourteen days of a request by Goldacres for such information.

### Returned Goods

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

### Goods sold

- All Goods to be supplied by Goldacres shall be described on the purchase order agreed by Goldacres 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 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 is unable to perform in whole or in part any obligation under these terms and conditions then Goldacres 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 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 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 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 to the courts of such State and any court competent to hear appeals therefrom.



# Contents

<b>I CHASSIS</b>	<b>7</b>	400L Flush Tank Assembly . . . . .	43
Chassis - 5000-8500L . . . . .	7	<b>4 RIGHT HAND POD</b>	<b>45</b>
Chassis - 5000-8500L . . . . .	8	RH POD . . . . .	45
Pull - 5000-6500L . . . . .	9	RH POD . . . . .	46
Pull - 5000-6500L . . . . .	10	Air Compressors. . . . .	47
Pull - 7500/8500L . . . . .	11	Air Compressor Assembly - Single . . . . .	48
Pull - 7500/8500L . . . . .	12	Air Compressor Assembly - Dual . . . . .	49
Front Steps - 5000-8500L . . . . .	13	Air Compressor Assembly - Dual - Hoses . . . . .	50
Hand Rails - 5000-6500L . . . . .	14	Plumbing Manifold . . . . .	50
Hand Rails - 7500/8500L . . . . .	15	Fill Pump Spool. . . . .	51
Handrail Gauge Assembly . . . . .	16	<b>5 LEFT HAND POD</b>	<b>53</b>
Gauges - Air & Spray Assembly . . . . .	17	LH POD - Control Panel Cover . . . . .	53
Gauges - Air & Dual Spray Assembly . . . . .	18	LH POD Assembly - Control Panel . . . . .	54
H-Frame - 5000-6500L . . . . .	19	LH POD Assembly - Control Panel . . . . .	55
H-Frame - 5000-6500L . . . . .	20	LH POD Assembly - Filters . . . . .	56
H-Frame - 7500/8500L . . . . .	21	LH POD Assembly - Filters . . . . .	57
H-Frame - 7500/8500L . . . . .	22	LH POD Assembly - Accessories . . . . .	58
Boom Rest - 5000-6500L . . . . .	23	LH POD Assembly - Accessories . . . . .	59
Boom Rest - 6500L - 30m Boom . . . . .	24	LH POD Assembly - Frame & Mounting . . . . .	60
Boom Rest - 7500/8500L . . . . .	25	Chemical Pump - Standard. . . . .	61
ISOBUS Node Cover . . . . .	26	Chemical Pump - Flow Meter Optioned. . . . .	62
Towbars . . . . .	27	Chemical Pump - Flow Meter . . . . .	63
Drum Holder . . . . .	28	Suction Filter Assembly - 260 Zeta . . . . .	64
<b>2 PUMPS</b>	<b>29</b>	Chemical Probe Assembly. . . . .	65
Zeta 260 - PTO Drive . . . . .	29	Wash Down Gun Assembly . . . . .	66
Zeta 260 - Hydraulic Drive . . . . .	30	Wash Down Gun Valve Assembly. . . . .	66
Zeta 260 - Hydraulic Drive Assembly . . . . .	31	Fill Manifold Assembly . . . . .	67
Zeta 260 - Hydraulic Drive Conversion Kit . . . . .	32	Chemical Pump Venturi Valve Assembly . . . . .	67
Zeta 260 - Hydraulic Hose Kit. . . . .	33	Flush Tank Check Valve Assembly. . . . .	68
Zeta 260 - Hydraulic Pressure Flow Compensator . . . . .	34	Main Tank Fill Tap Assembly. . . . .	68
ARAG MSP400 Spray Pump . . . . .	35	Pressure Control Assembly . . . . .	69
ARAG MSP400 Spray Pump Assembly . . . . .	36	Pressure Gauge Assembly . . . . .	69
ARAG MSP400 Spray Pump Assembly . . . . .	37	Pressure Delivery Check Valve Assembly . . . . .	70
Hydraulic Fill Pump Mounting . . . . .	38	Fill Manifold Assembly . . . . .	71
Hydraulic Fill Pump Fittings Assembly . . . . .	39	Hopper Manifold Assembly . . . . .	72
Hydraulic Fill Pump Assembly . . . . .	40	Valve - Quick Fit 2 Way Assembly. . . . .	73
Hydraulic Fill Pump Hoses & Fittings. . . . .	41	Valve - 4 Way Assembly . . . . .	74
<b>3 FLUSH TANK</b>	<b>42</b>	Chemical Transfer Pump Mounting . . . . .	75
400L Flush Tank Frame . . . . .	42	Fill Point - 3" . . . . .	76

Fill Point - 2" . . . . .	77	Not Fitted . . . . .	112
Chemical Probe Hose Lance. . . . .	78		
Enviro Coupling & Hose . . . . .	79		
<b>6 DIRECT CHEMICAL INJECTION</b>	<b>80</b>	<b>10 TRANSCAL</b>	<b>114</b>
DCI Pod . . . . .	80	Not Fitted . . . . .	114
DCI Pod . . . . .	81	<b>11 MAIN TANK</b>	<b>116</b>
DCI Third Unit Assembly . . . . .	82	Tank Assembly - 5000L . . . . .	116
DCI Third Unit Assembly . . . . .	83	Tank Assembly - 5000L . . . . .	117
DCI Bottle - 120L Assembly. . . . .	84	Tank Assembly - 6500L . . . . .	118
DCI Bottle - 165L Assembly. . . . .	85	Tank Assembly - 6500L . . . . .	119
Fill Shut Off Assembly . . . . .	86	Tank Assembly - 7500L . . . . .	120
Rinse Nozzle & Cap . . . . .	86	Tank Assembly - 7500L . . . . .	121
Mixing Chamber . . . . .	87	Tank Assembly - 8500L . . . . .	122
Cover Plate Assembly . . . . .	88	Tank Assembly - 8500L . . . . .	123
High Volume Pump - Dual Unit . . . . .	89	Tank Rinsing Nozzle, Elbow - Assembly . . . . .	124
High Volume Pump - Third Unit . . . . .	90	Tank Rinsing Nozzle, Tee - Assembly . . . . .	124
Panel Alignment Strip . . . . .	91	Venturi Filler . . . . .	125
Vacuum Gauge Assembly . . . . .	91	Supermix Agitator . . . . .	126
Ball Valve Assembly . . . . .	92	Inlet - Tank Fill 1" - Chemical Pump . . . . .	126
Chemical Pump Suction Valve - Dual Unit. . . . .	93	Inlet - Tank Fill 2" - Straight . . . . .	127
Chemical Pump Suction Valve - Third Unit . . . . .	94	Inlet - Hopper Fill 2"- Straight . . . . .	127
Chemical Tank Vacuum Valve Assembly. . . . .	95	Inlet - Boom Recirculation . . . . .	128
Tank Rinse Ball Valve Assembly . . . . .	96	Outlet - Tank Overflow 2". . . . .	128
Tank Vent Ball Valve Assembly. . . . .	97	Side Fill Assembly - 3" . . . . .	129
Chemical Probe Coupling Valve Assembly . . . . .	98	Dry Sight Tube - Float & Guide . . . . .	130
<b>7 DUAL PRODUCT</b>	<b>100</b>	Dry Sight Tube - Locating Cap Assembly . . . . .	130
Ramsay Valve Assembly . . . . .	100	Dry Sight Tube - Float Assembly . . . . .	131
Ramsay Valve Assembly . . . . .	101	Dry Sight Tube - Cap & Tube Assembly. . . . .	132
Dual Product & DCI Mixer. . . . .	101	Remote Drain - 4000-6500L. . . . .	133
Dual Product & DCI Mixer. . . . .	102	Remote Drain - 7500/8500L . . . . .	134
Dual Pressure Filters . . . . .	102	Sump Drain Valve . . . . .	135
Dual Product Manifold . . . . .	103	Tank Stops . . . . .	135
Twin Solenoid Assembly . . . . .	104	Tank Straps & Brackets - 4000-8500L . . . . .	136
<b>8 INDUCTION HOPPER</b>	<b>106</b>	<b>12 WHEELS, AXLES &amp; MUDGUARDS</b>	<b>138</b>
Induction Hopper - 60L . . . . .	106	Air Bag Axle - 4000-6500L. . . . .	138
Induction Hopper - Frame Assembly . . . . .	107	Air Bag Axle - 4000-6500L. . . . .	139
Induction Hopper - Frame Assembly . . . . .	108	Air Bag Axle - 7500/8500L . . . . .	140
Induction Hopper - Tank Assembly . . . . .	109	Air Bag Axle - 7500/8500L . . . . .	141
Induction Hopper - Tank Assembly . . . . .	110	Rigid Axle . . . . .	142
Hopper Bottom - 2" Flanged . . . . .	111	Braked Axle Assembly . . . . .	143
<b>9 FOAM MARKER</b>	<b>112</b>	Brake Mechanism Assembly . . . . .	144
		Steering Axle Assembly . . . . .	145
		Steering Axle Assembly . . . . .	146

Wheel Speed Sensor. . . . .	147	Norac System - 48m. . . . .	189
Wheels. . . . .	148	Norac Spare Parts List. . . . .	189
Mudguards. . . . .	149	Norac Spare Parts List. . . . .	190
Mudguards. . . . .	150	RapidFire 7 Section Solenoid Box. . . . .	191
Hub - 90 Series - Unbraked. . . . .	151	RapidFire 10 Section Solenoid Box. . . . .	192
Hub - 110 Series - Unbraked. . . . .	152	RapidFire 12 Section Solenoid Box. . . . .	193
Hub - 110 Series - Braked. . . . .	153	RapidFire 16 Section Solenoid Box - Single Tier. . . . .	194
<b>13 BOOM CENTRE</b>	<b>154</b>	RapidFire 16 Section Solenoid Box - Three Tier. . . . .	195
24-36m - Paralift & Paralift Arms. . . . .	154	RapidFire Solenoid Assembly. . . . .	196
24-36m - Paralift & Paralift Arms. . . . .	155	RapidFire Solenoid Valve. . . . .	197
24-36m - Boom Centre - Base Assembly. . . . .	156	<b>14 BOOM WINGS</b>	<b>198</b>
24-36m - Boom Centre - Base Assembly. . . . .	157	24-36m - Boom Pivot. . . . .	198
24-36m - Boom Centre - Tilt Assembly. . . . .	158	24-36m - Boom Fold Adjuster. . . . .	199
24-36m - Boom Centre - Tilt Assembly. . . . .	159	24-36m - Cable Drum. . . . .	200
24-36m - Boom Centre - Yaw Assembly. . . . .	160	24-36m - Cable Drum. . . . .	201
24-36m - Boom Centre - Yaw Assembly. . . . .	161	24-36m - Bi-Fold. . . . .	202
24-36m - Boom Centre - Level. . . . .	162	24-36m - Boom Protector - Outer Wing. . . . .	203
24-36m - Roll Shocker Assembly. . . . .	163	24-36m - Boom Protector - Inner Wing. . . . .	203
24-36m - Roll Shocker Assembly. . . . .	164	24-36m - Boom Cables. . . . .	204
24-36m - Boom Centre - Flow Div. & Chk. Valves. . . . .	165	24-36m - Upper Pivot Assembly. . . . .	205
24-36m - Cable Mount Rear. . . . .	166	24-36m - Lower Pivot Assembly. . . . .	205
48m - Boom Centre - Paralift Assembly. . . . .	167	24m - Boom Cable Spring. . . . .	206
48m - Boom Centre - First Stage Fold. . . . .	168	28-30m - Boom Cable Spring. . . . .	206
48m - Boom Centre - Tilt Rams. . . . .	169	33-36m - Boom Cable Springs. . . . .	207
48m - Boom Centre - Delta Links. . . . .	170	24-36m - Steel Inner Wings. . . . .	207
48m - Boom Centre - Yaw. . . . .	171	36m - Aluminium Outer Assembly. . . . .	208
48m - Boom Centre - Bump Stops. . . . .	172	24-36m - Aluminium Outer Wings. . . . .	209
48m - Boom Centre - Roll Shockers. . . . .	173	24-36m - Aluminium Break Away Tip. . . . .	209
48m - Boom Centre - Level. . . . .	174	48m - Boom Pivot. . . . .	210
48m - Boom Centre - Hydraulic Control Manifold. . . . .	175	48m - Boom Catch. . . . .	211
48m - Boom Centre - Tilt Sensor. . . . .	176	48m - Second Stage Fold. . . . .	212
Oversize Sign Mount - 24-48m. . . . .	177	48m - Second Stage Fold. . . . .	213
Delta Link - 24-48m. . . . .	178	48m - Third Stage Fold. . . . .	214
Remote Manual Grease Station - 24-48m. . . . .	179	48m - Third Stage Fold. . . . .	215
Lower Limit Switch - 24-36m. . . . .	180	48m - Boom Bearing End Assembly. . . . .	215
Lower Limit Switch - 48m. . . . .	181	48m - Boom Link Assembly. . . . .	216
RapidFire Components - Non RCM. . . . .	182	48m - Boom Catch Assembly. . . . .	216
RapidFire Components - Non RCM. . . . .	183	48m - Boom Wings Inner - Steel. . . . .	217
RapidFire Components - RCM. . . . .	184	48m - Boom Wings Outer - Aluminium. . . . .	217
RapidFire Components - RCM. . . . .	185	48m - Breakaway Aluminium Tip. . . . .	217
Spray Bar - 24-36m. . . . .	186	48m - Boom Bumper & Protectors. . . . .	218
Norac System - 36-42m. . . . .	187	24-48m - 3D Breakaway Tip. . . . .	219
Norac System - 48m. . . . .	188	24-48m - 3D Breakaway Tip. . . . .	220



24-48m - 3D Breakaway Mechanism . . . . .	220	Hydraulics - 48m Boom . . . . .	257
24-36m - 3D Breakaway Tip - End Protector . . . . .	221	Hydraulics - Pumps & Accessories. . . . .	258
48m - 3D Breakaway Tip - End Protector. . . . .	222	Hydraulics - Hose - 5000L . . . . .	259
Touch Down Wheel . . . . .	223	Hydraulics - Hose - 5000L . . . . .	260
Touch Down Wheel . . . . .	224	Hydraulics - Hose - 6500/7500L . . . . .	261
<b>15 ELECTRICS</b>	<b>226</b>	Hydraulics - Hose - 6500/7500L . . . . .	262
Lighting - Boom Tip LEDs . . . . .	226	Hydraulics - Hose - 8500L . . . . .	263
Lighting - Tail Light & Beacon . . . . .	227	Hydraulics - Hose - 8500L . . . . .	264
Lighting - POD Work Light . . . . .	227	Plumbing - Zeta 260 . . . . .	265
Lighting - Boom Lights . . . . .	228	Plumbing - Arag 400 . . . . .	266
Lighting - Night Pro LEDs . . . . .	229	Plumbing - Hose List . . . . .	267
Lighting - Pod. . . . .	229	Plumbing - Hose List . . . . .	268
Electrical Components. . . . .	230	Plumbing - Direct Chemical Injection - Dual Unit . . . . .	269
Electrical Connectors - AMP. . . . .	231	Plumbing - Direct Chemical Injection - Triple Unit . . . . .	270
Electrical Connectors - AMP. . . . .	232	Pneumatics - Non-Airbag . . . . .	271
Electrical Connectors - Weather Pack. . . . .	233	Pneumatics - Airbag 24-42 m . . . . .	272
Electrical Connectors - Weather Pack. . . . .	234	Pneumatics - Airbag 48 m . . . . .	273
Electrical Connectors - Din Hirschmann . . . . .	234	<b>17 DECALS</b>	<b>274</b>
Electrical Connectors - Deutsch. . . . .	235	Decals - Base Kit . . . . .	274
Electrical Connectors - Deutsch. . . . .	236	Decals - Base Kit . . . . .	275
Electrical Connectors - Deutsch. . . . .	237	Decals - Base Kit . . . . .	276
Electrical Connectors - Deutsch. . . . .	238	Decals - Base Kit . . . . .	277
Electrical Connectors - Deutsch. . . . .	239	Decals - Base Kit . . . . .	278
Console Mounting Kit . . . . .	240	Decals - Tank. . . . .	279
Control Boxes . . . . .	241	Decals - Switch Boxes . . . . .	280
Control Boxes . . . . .	242	Decals - Dry Sight Tube . . . . .	281
Electrical Harnesses . . . . .	242	<b>18 HYDRAULICS</b>	<b>282</b>
Electrical Harnesses . . . . .	243	Boom Lift Accumulator Manifold . . . . .	282
<b>16 SCHEMATICS</b>	<b>244</b>	Fill Pump Manifold Assembly . . . . .	283
Electrical Layout - Tractor Controller . . . . .	244	Solenoid Valve - Smart Steer. . . . .	284
Electrical Layout - Tractor Spray. . . . .	245	24-36m - Solenoid Valve - Boom Lower. . . . .	285
Electrical Layout - Main Chassis . . . . .	246	24-36m - Solenoid Valve - Bi-Fold . . . . .	286
Electrical Layout - ISOBUS / 4400. . . . .	247	24-36m - Pressure Reducing Valve Assembly . . . . .	287
Electrical Layout - RCM . . . . .	248	24-36m - Flow Dividers . . . . .	287
Electrical Layout - Air Compressor . . . . .	249	24-36m - Double Pilot Check Valves - Bi-fold. . . . .	288
Electrical Layout - DCI. . . . .	250	24-36m Cylinder - Boom Lift . . . . .	289
Electrical Layout - Hydraulic Control . . . . .	251	48m Cylinder - Boom Lift . . . . .	289
Electrical Layout - 48m Boom . . . . .	252	24-36m Cylinder - Yaw . . . . .	290
Hydraulics - Spool Valves Open Centre . . . . .	253	24-36m Cylinder - Boom Tilt . . . . .	291
Hydraulics - Spool Valves Open Centre . . . . .	254	24-36m Cylinder - Boom Fold . . . . .	292
Hydraulics - Spool Valves Closed Centre . . . . .	255	24-36m Cylinder - Boom Fold - External Phase . . . . .	293
Hydraulics - Spool Valves Closed Centre . . . . .	256	24-36m Cylinder - Bi-Fold . . . . .	294

24-36m Cylinder - Centre Leveling . . . . .	295	Nozzles - Teejet Clock Face Body . . . . .	331
48m Cylinder - Yaw . . . . .	296	Nozzles - Altek Spray Stop - Push On Type. . . . .	332
48m Cylinder - Boom Catch Arm . . . . .	297	Nozzles - Altek Spray Stop - Push In Type. . . . .	333
48m Cylinder - Boom Mid Catch . . . . .	297	Nozzles - Altek Clamp. . . . .	334
48m Cylinder - First Fold. . . . .	298	Nozzles - Altek Dual Spray Body . . . . .	335
48m Cylinder - Second Fold . . . . .	299	Nozzles - Direct Control - Single . . . . .	336
48m Cylinder - Third Fold . . . . .	299	Nozzles - Direct Control - Dual . . . . .	337
48m Cylinder - Boom Tilt . . . . .	300	Nozzles - Direct Control - Dual Assembly . . . . .	338
48m Cylinder - Centre Leveling . . . . .	301	Nozzles - Fence Line - Solenoid Operated . . . . .	339
Cylinder Rose End - Spare Parts . . . . .	302	Nozzles - Fence Line - Manual Operated . . . . .	340
Yaw Control Valve Assembly . . . . .	303	Nozzles - Tip Strainers. . . . .	341
Yaw Charge Line . . . . .	304	Nozzles - IDK - Cap . . . . .	341
Load Sense Turbo Valve . . . . .	305	Nozzles - IDK - Tips . . . . .	341
Quick Release Couplings. . . . .	306	Nozzles - ID3 - Cap . . . . .	342
Hydraulic O-rings & Retaining Washers . . . . .	306	Nozzles - ID3 - Tips . . . . .	342
Hydraulic Hose ID Tags . . . . .	307	Nozzles - AIXR - Tips . . . . .	342
Hydraulic Hoses . . . . .	307	Plumbing Lines - Miscellaneous . . . . .	343
Raw Hide & Spiral Guard . . . . .	308	Plumbing Lines - Miscellaneous . . . . .	344
NORAC Assembly. . . . .	308	Boom Pipe Clamps - Singles . . . . .	344
NORAC Valve Block. . . . .	309	Plumbing Lines - Nozzle Brackets . . . . .	345
24-36m Spool Valve Manifold Assembly . . . . .	310	Plumbing Lines - Nozzle Bracket Kits . . . . .	345
24-36m Spool Valve Manifold Assembly . . . . .	311	Boom Pipe Clamps - 36-42m . . . . .	346
24-36m Spool Valve Manifold Fittings . . . . .	312	Boom Pipe Clamps - 48m . . . . .	347
24-36m Spool Valve Mounting Assembly . . . . .	313	Boom Poly - 3/4"- 600mm . . . . .	348
48m Hydraulic Control Manifold . . . . .	314	Boom Poly - 3/4"- 1100mm. . . . .	348
48m Hydraulic Control PLC . . . . .	315	Boom Poly - 3/4"- 1200mm. . . . .	348
		Boom Poly - 3/4"- 1600mm. . . . .	349
		Boom Poly - 3/4"- 2100mm. . . . .	350
		Boom Poly - 3/4"- 2600mm. . . . .	351
		Boom Poly - 3/4"- 3100mm. . . . .	351
		Boom Poly - 1" - 6000mm . . . . .	351
		Hoses . . . . .	352
		Hose Clamps. . . . .	353
		Cable Ties . . . . .	353
		Spiral Guard . . . . .	353
		Chemical Probe Hose Lance. . . . .	354
		Enviro Coupling & Hose . . . . .	355

## 19 PLUMBING

## 316

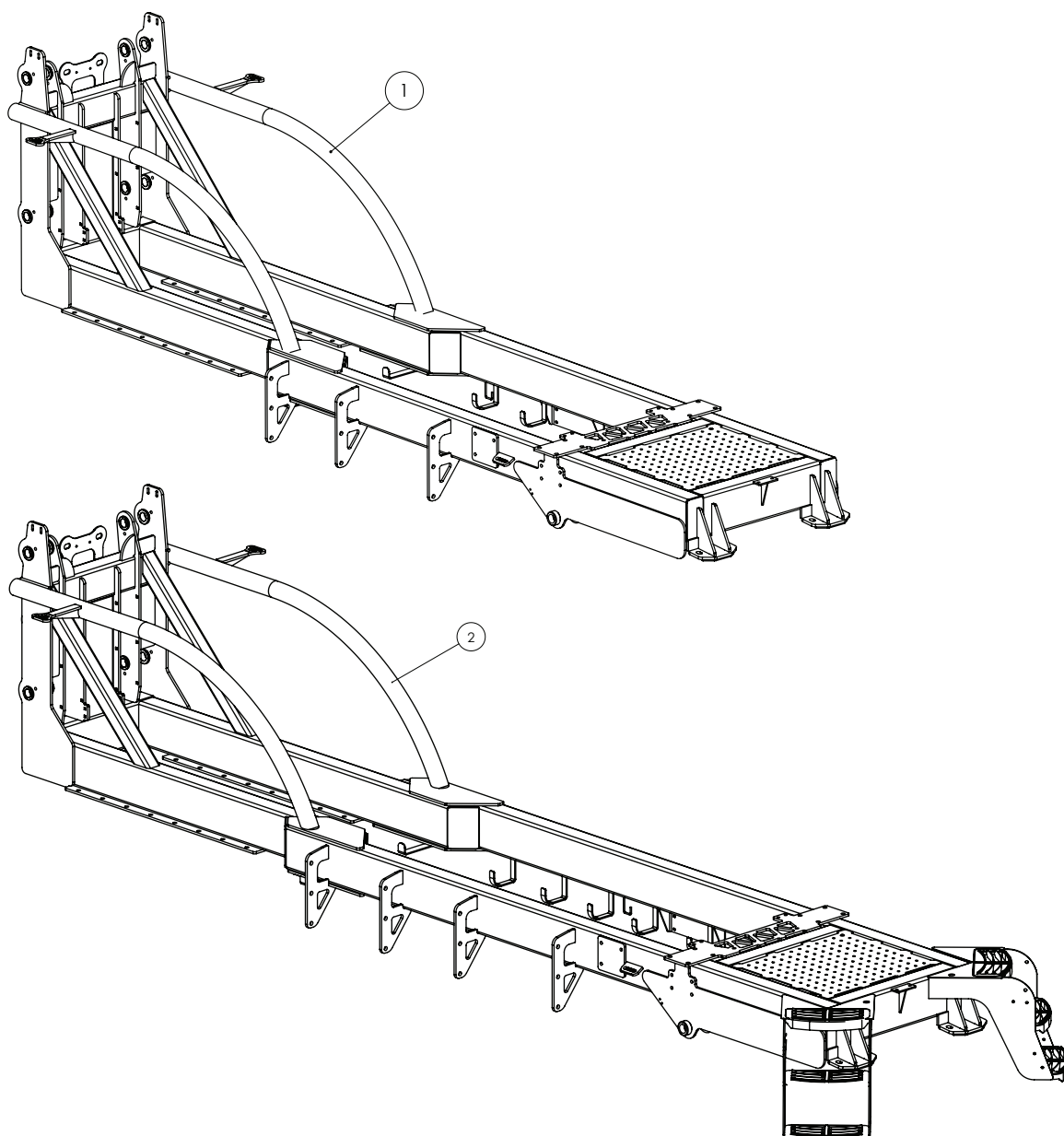
Filter - 2" Pressure . . . . .	316	Boom Poly - 3/4"- 2600mm. . . . .	351
Filter - 2" Pressure Assembly . . . . .	317	Boom Poly - 3/4"- 3100mm. . . . .	351
Filter - 2" Fill . . . . .	318	Boom Poly - 1" - 6000mm . . . . .	351
Filter - 2" Suction. . . . .	319	Hoses . . . . .	352
Filter - In Line Boom . . . . .	320	Hose Clamps. . . . .	353
Fill Flow Meter - Teejet . . . . .	321	Cable Ties . . . . .	353
Fill Flow Meter - Teejet & Shut Off Valve . . . . .	321	Spiral Guard . . . . .	353
Regulator Valve Assembly . . . . .	322	Chemical Probe Hose Lance. . . . .	354
Flow Meter. . . . .	323	Enviro Coupling & Hose . . . . .	355
Flow Meter Assembly . . . . .	324		
Flow Distributor & Boom Recirc. Valve 24-42m . . . . .	325		
Flow Distributor & Boom Recirc. Valve 24-42m . . . . .	326		
Flow Distributor & Boom Recirc. Valve 48m . . . . .	327		
Flow Distributor & Boom Recirc. Valve 48m . . . . .	328		
Nozzles - Teejet Single Body. . . . .	329		
Nozzles - Teejet Clock Face Body. . . . .	330		



# Chapter I

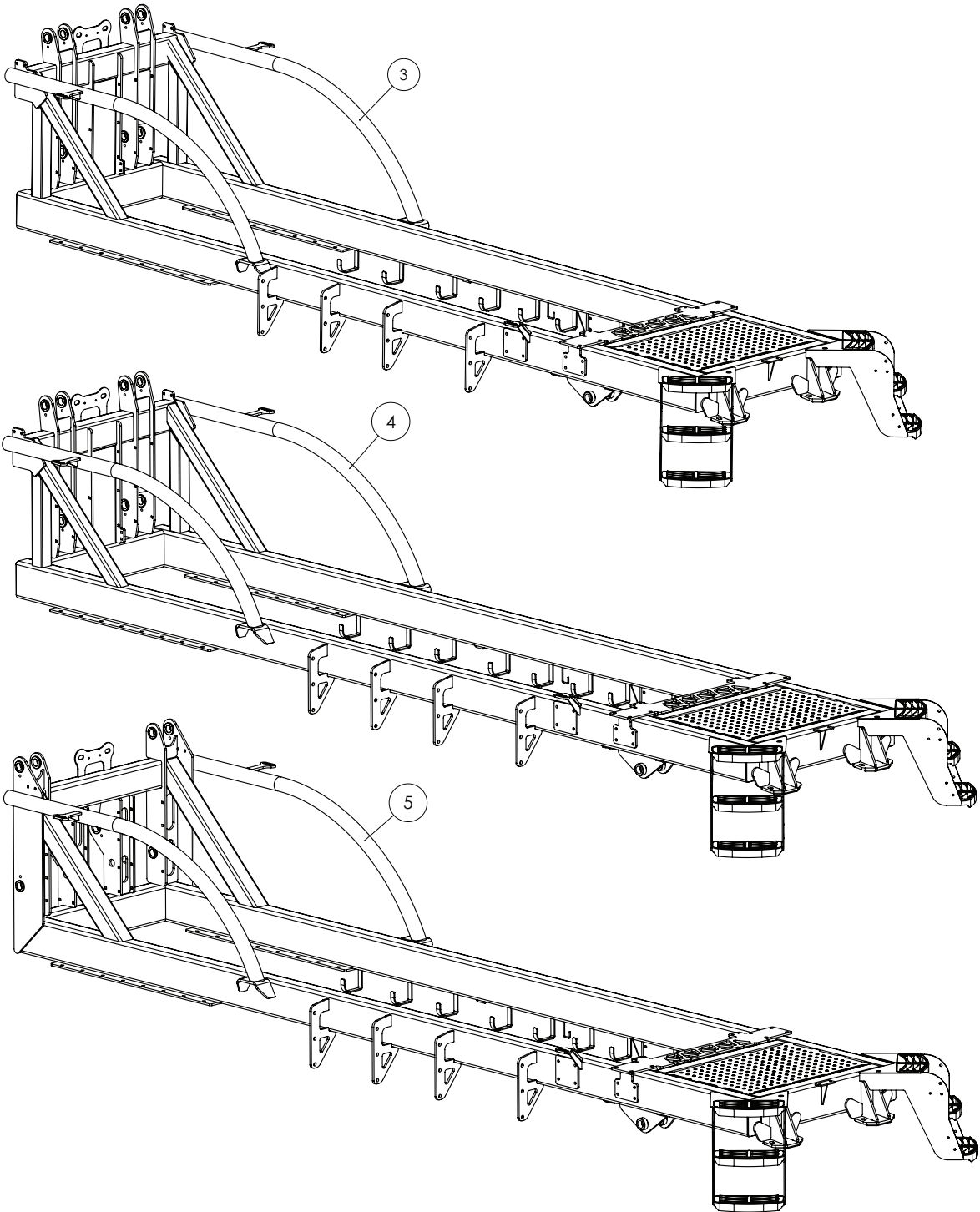
## CHASSIS

### Chassis - 5000-8500L



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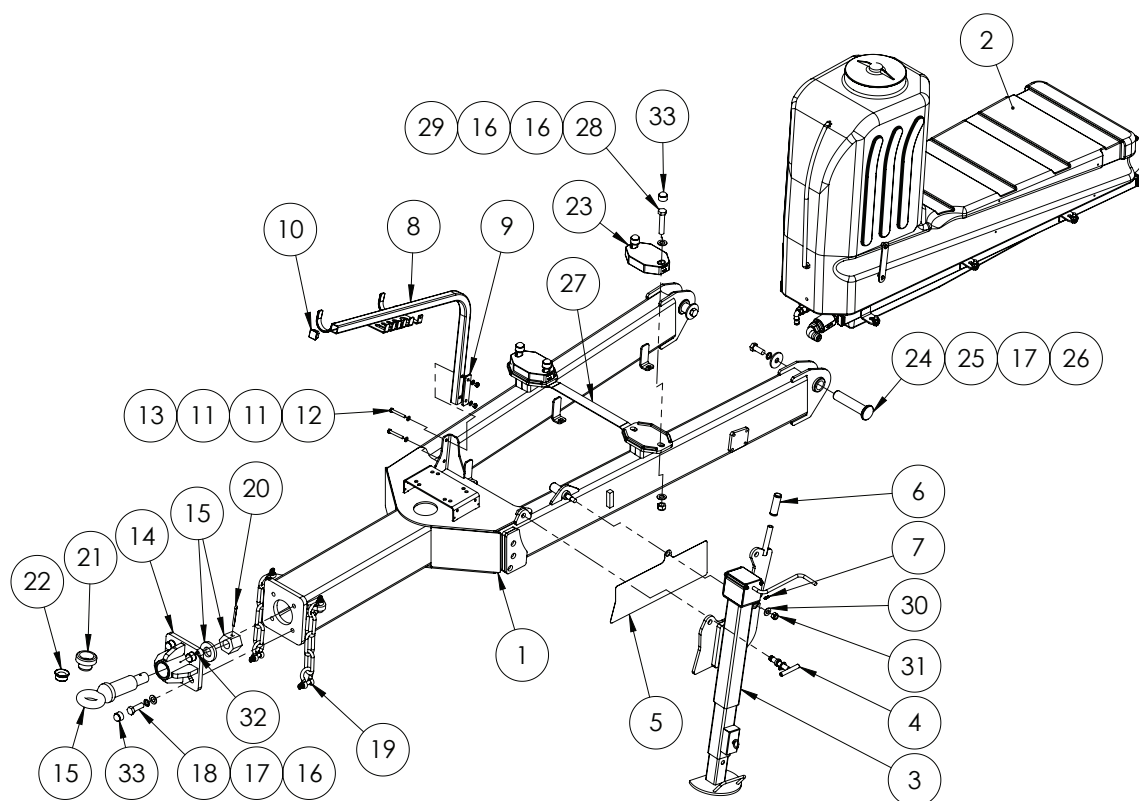
# Chassis - 5000-8500L



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659511	CHASSIS PRAIRIE PRO 5000L	1
2	GA4659516	CHASSIS PRAIRIE PRO 6500L	
3	GA4659522	CHASSIS PRAIRIE PRO 7500L	
4	GA4659528	CHASSIS PRAIRIE PRO 8500L - 30-36 M BOOM	
5	GA4659527	CHASSIS PRAIRIE PRO 8500L - 48 M BOOM	



## Pull - 5000-6500L



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	1
2	^	400L FLUSH TANK	1
3	GA4656436	JACK	1
4	GA4656437	JACK T BOLT	1
5	GA4522297	WEAR PLATE, JACK	1
6	GA5066700	HANDLE BAR GRIP SUIT JACK HANDLE BLACK	1
7	GA5009639	GREASE NIPPLE, LONG, 1/4" UNF MALE THREAD, 1 1/8" LONG	1
8	GA4657665	HOSE SUPPORT ARM	1
9	GA4522926	HOSE SUPPORT BACKING PLATE	1
10	GA5002911	35 X 35MM SQUARE TUBE INSERT BLACK	1
11	GA5000117	WASHER 10MM FLAT SS HD	4
12	GA5011163	BOLT M10 X 70 ZP GR8.8	2
13	GA5000141	NUT M10 NYLOC ZP	2
14	GA4659555	TOWING EYE, HOUSING, ANGLED, BOLT ON	1
15	GA5016243	TOWING EYE, SUIT TRAILING SPRAYER, NO INSERT BUSH	1

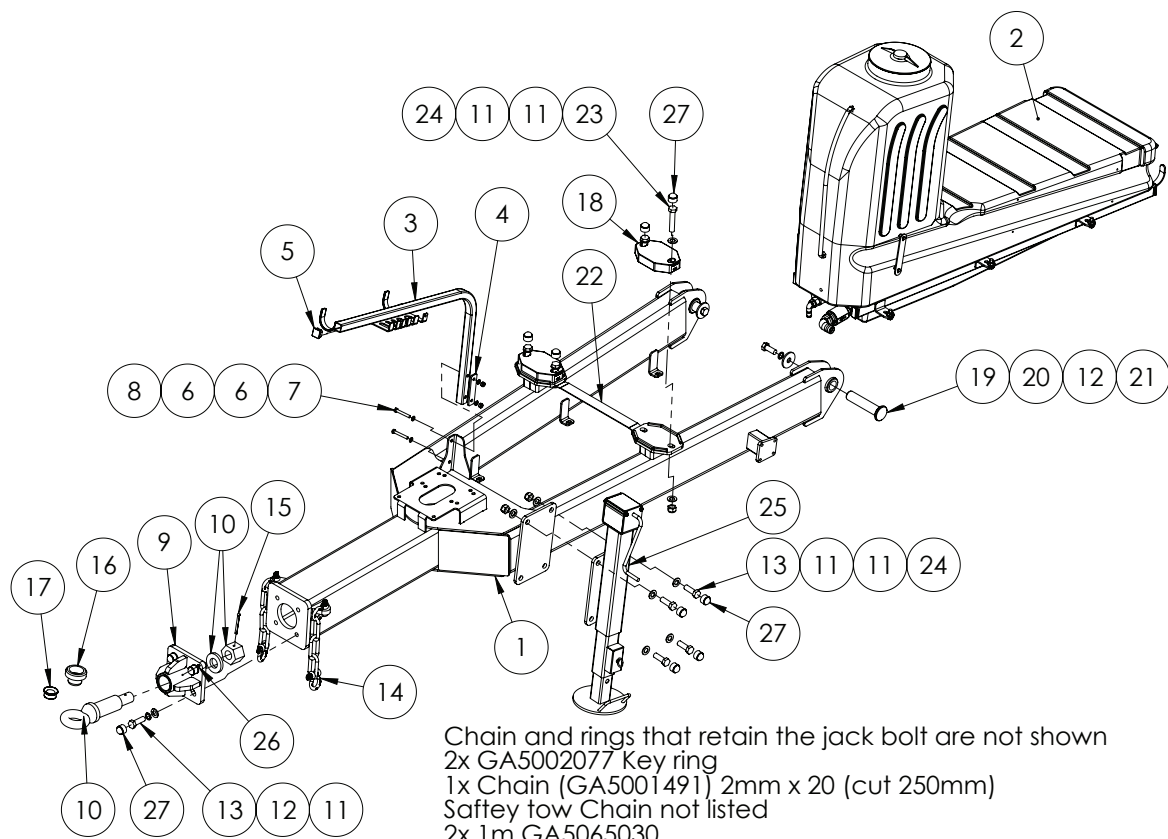
^ See Chapter 3 'Flush Tank' for sub-assembly.

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## Pull - 5000-6500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
16	GA5001741	WASHER 20MM FLAT SS HD	12
17	GA5001721	WASHER 20MM SPRING SS	6
18	GA5011333	BOLT M20 X 60 ZP GR8.8	4
19	GA5075230	BOW SHACKLE 13MM WLL 3.25T BLACK	4
20	GA5051385	SPLIT PIN M8 X 90	1
21	GA4582455	BUSH, FOR 1 1/2" PIN, TOW EYE, URETHANE 90 DURO	1
22	GA5075075	BUSH, 35 ID X 50MM OD, SUIT TOWING EYE, STEEL	1
23	GA5061070	SPACER PULL EF (80 DURO URETHANE BLACK)	2
24	PCH-019MACH	PIN WITH FLANGED END, 39.5 MINOR OD X 188MM LONG	2
25	L073A	WASHER, SUIT DRAWBAR PIN	2
26	GA5011321	SET SCREW M20 X 50 COURSE ZP GR8.8	2
27	GA4522385	PRAIRIE EF BELLY TANK RETAINING STRAP	1
28	GA5048355	BOLT, M20 X 100, ZP GR8.8	4
29	GA5048125	NUT M20 NYLOC COARSE ZP	4
30	GA5001043	WASHER 16MM FLAT SS HD	1
31	GA5001029	NUT M16 NYLOC ZP	1
32	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
33	GA5054690	CAP M20 HEX NUT COVER	8

## Pull - 7500/8500L



Note: GA4905650 - Chain safety complete kit MY13

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659550	PULL PRAIRIE 7500 AND 8500	1
2	^	400L FLUSH TANK	1
3	GA4657665	HOSE SUPPORT ARM SUIT EF PULL	1
4	GA4522926	EF PULL HOSE SUPPORT BACKING PLATE	1
5	GA5002911	35 X 35MM SQUARE TUBE INSERT BLACK	1
6	GA5000117	WASHER 10MM FLAT SS HD	4
7	GA5011163	BOLT M10 X 70 ZP GR8.8	2
8	GA5000141	NUT M10 NYLOC ZP	2
9	GA4659555	TOWING EYE, HOUSING, ANGLED, BOLT ON	1
10	GA5016243	TOWING EYE, SUIT TRAILING SPRAYER, NO INSERT BUSH	1
11	GA5001741	WASHER 20MM FLAT SS HD	20
12	GA5001721	WASHER 20MM SPRING SS	6
13	GA5011333	BOLT M20 X 60 ZP GR8.8	8
14	GA5075230	BOW SHACKLE 13MM WLL 3.25T BLACK	4
15	GA5051385	SPLIT PIN M8 X 90	1
16	GA4582455	BUSH, FOR 1 1/2" PIN, TOW EYE, URETHANE 90 DURO	1
17	GA5075075	BUSH, 35 ID X 50MM OD, SUIT TOWING EYE, STEEL	1
18	GA5061070	SPACER PULL EF (80 DURO URETHANE BLACK)	2

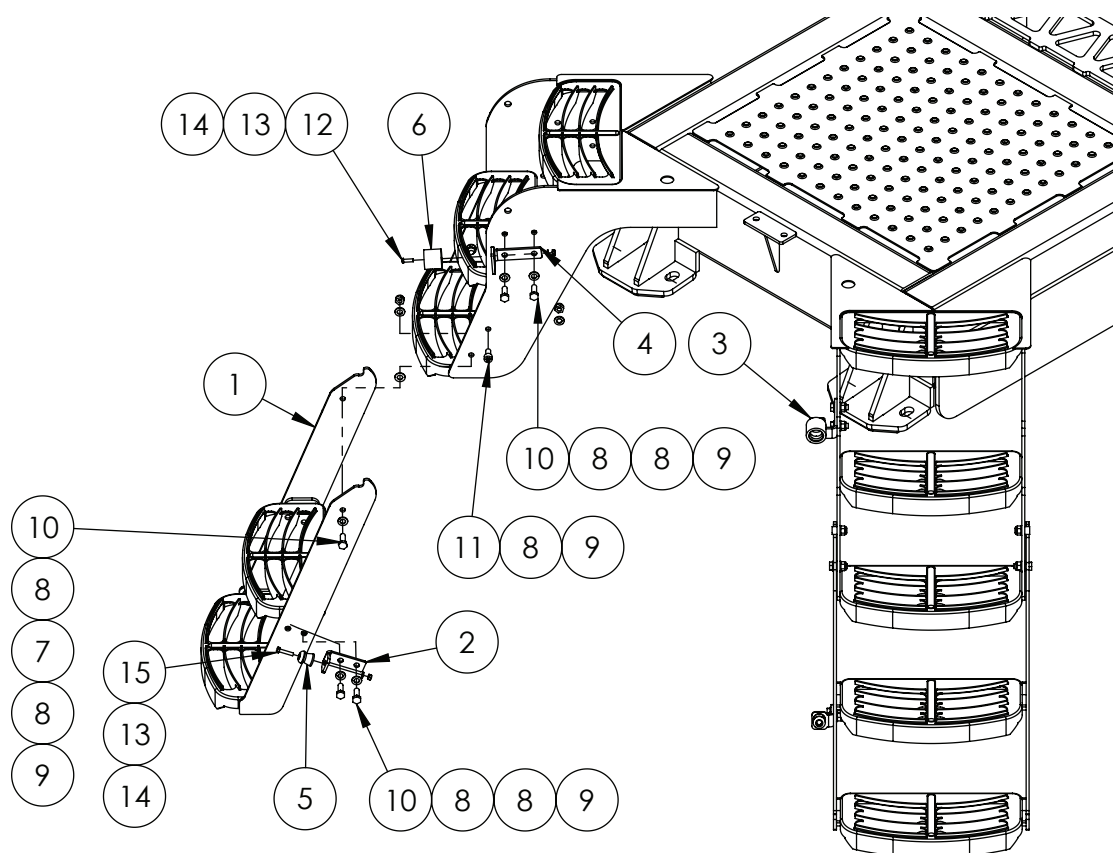
^ See Chapter 3 'Flush Tank' for sub-assembly.

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## Pull - 7500/8500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
19	PCH-019MACH	PIN WITH FLANGED END, 39.5 MINOR OD X 188MM LONG	2
20	L073A	WASHER, SUIT DRAWBAR PIN	2
21	GA5011321	SET SCREW M20 X 50 COURSE ZP GR8.8	2
22	GA4522385	PRAIRIE EF BELLY TANK RETAINING STRAP	1
23	GA5048355	BOLT, M20 X 100, ZP GR8.8	4
24	GA5048125	NUT M20 NYLOC COARSE ZP	8
25	GA4656439	JACK, SUIT EVO 7500 AND 8500 AND PRAIRIE ADV 8000L	1
26	GA5012203	GREASE NIPPLE, SHORT, 1/4' UNF	1
27	GA5054690	CAP M20 HEX NUT COVER	12

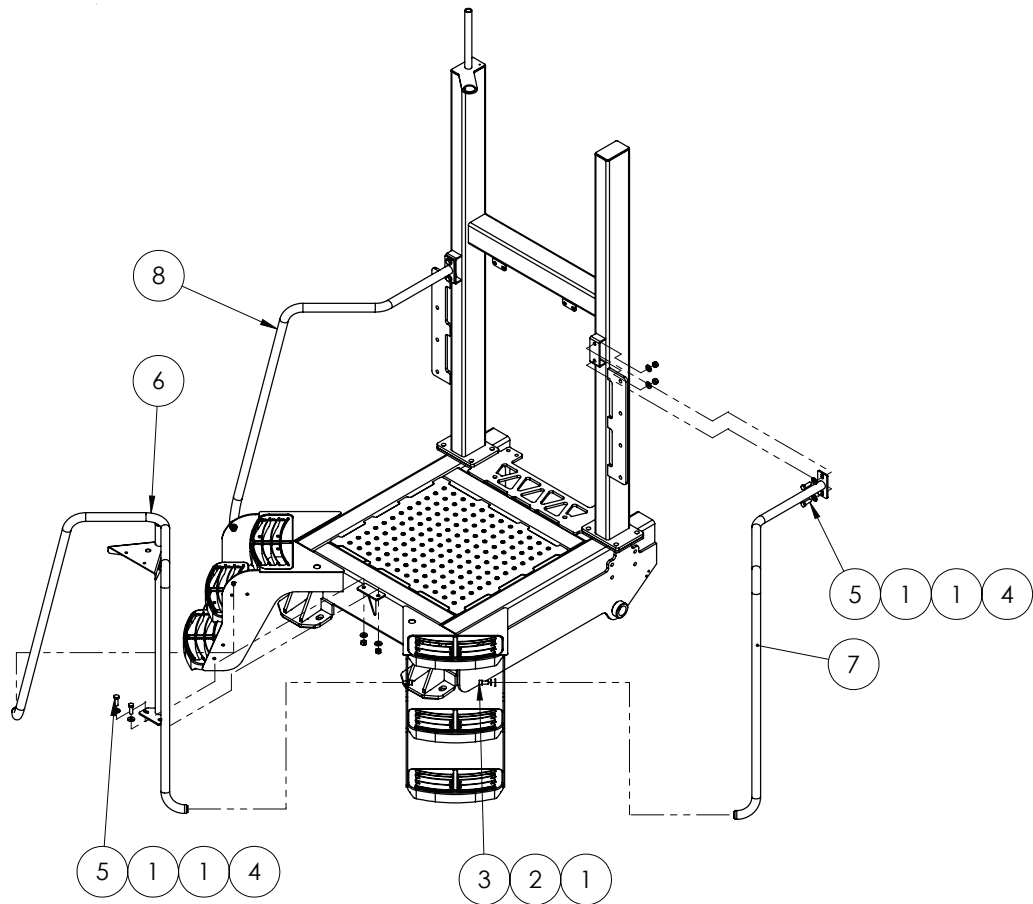
## Front Steps - 5000-8500L



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659690	LOWER STEPS, PRAIRIE, ECO AND SPECIAL 2013	2
2	GA4522617	LATCH PLATE, SUIT PRAIRIE EF, NARROW STEP	2
3	F70684A	RIGID STEP CATCH MOUNTING PLATE	1
4	F70654A	RIGID STEP CATCH MOUNTING PLATE 5MM FMS	1
5	GA5011607	DOOR HOLDER, MALE, RUBBER, BLACK	2
6	GA5008629	DOOR HOLDER, FEMALE, RUBBER, BLACK	2
7	GA5000115	WASHER 10MM FLAT SS	4
8	GA5000117	WASHER 10MM FLAT SS HD	28
9	GA5000141	NUT M10 NYLOC ZP	16
10	GA5065455	BOLT M10 X 30 ZP GR8.8	12
11	GA5011153	SHCS M10 X 20 ZP GR12.9	4
12	GA5004053	BHCS M6 X 20 SS	2
13	GA5004437	WASHER 6MM FLAT SS	4
14	GA5048115	NUT M6 NYLOC ZP	4
15	GA5004079	SET SCREW M6 X 30 ZP GR8.8	2

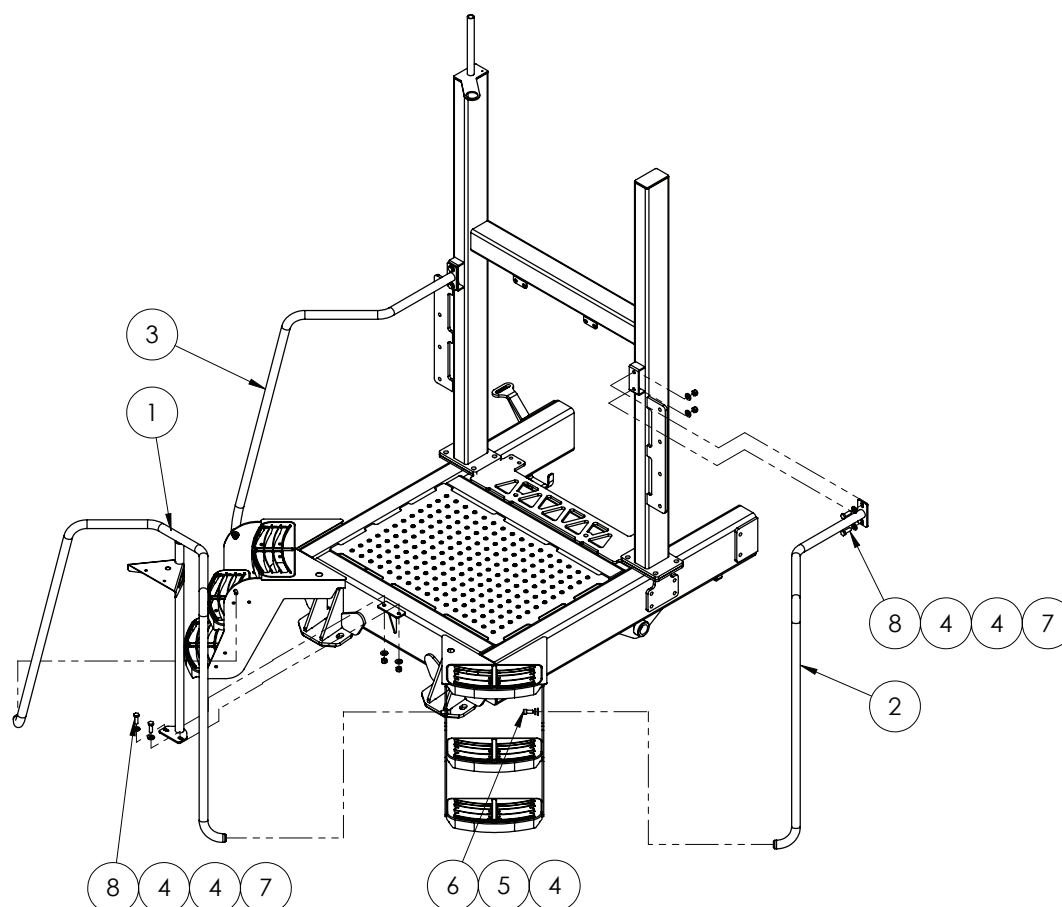


# Hand Rails - 5000-6500L



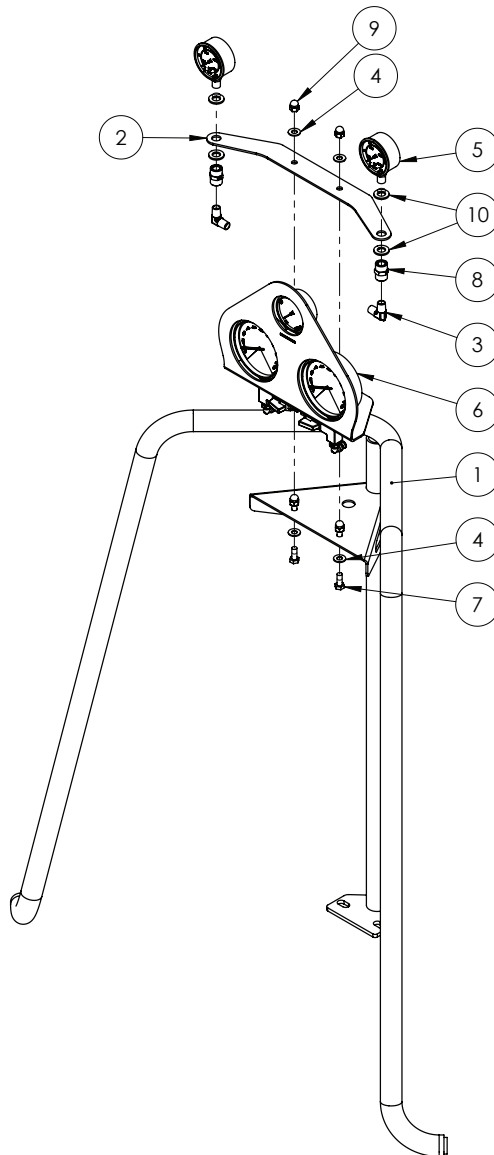
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5000577	WASHER 12MM FLAT SS HD	16
2	GA5000575	WASHER 12MM SPRING SS	4
3	GA5000297	SHCS M12 X 25 ZP GR12.9	4
4	GA5012461	NUT M12 NYLOC ZP	6
5	GA5000311	SET SCREW, M12 X 35, ZP GR 8.8	6
6	GA4659650	HANDRAIL FRONT	1
7	GA4659660	HANDRAIL LH	1
8	GA4659665	HANDRAIL RH	1

## Hand Rails - 7500/8500L



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659655	HANDRAIL MIDDLE	1
2	GA4659660	HANDRAIL LH	1
3	GA4659665	HANDRAIL RH	1
4	GA5000577	WASHER 12MM FLAT SS HD	16
5	GA5000575	WASHER 12MM SPRING SS	4
6	GA5000297	SHCS M12 X 25 ZP GR12.9	4
7	GA5012461	NUT M12 NYLOC ZP	6
8	GA5000311	SET SCREW, M12 X 35, ZP GR 8.8	6

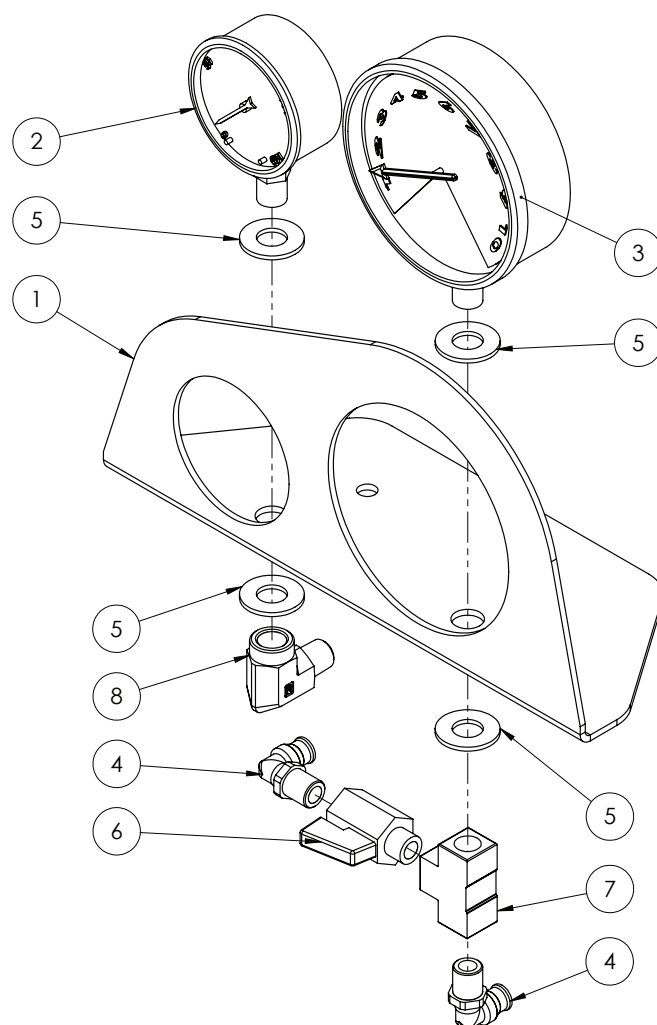
# Handrail Gauge Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659650	HANDRAIL PRAIRIE FRONT	1
2	GA4504995	PLATE GAUGE PRAIRIE BI-FOLD	1
3	GA3500258	HYDRAULIC COUPLING, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPT MALE	2
4	GA5003643	WASHER 8MM FLAT SS HD	4
5	GA5078076	GAUGE, PRESSURE, 250 BAR, 3500 PSI	2
6	*	GAUGES - AIR AND SPRAY ASSEMBLY	1
	*	GAUGES - AIR AND DUAL SPRAY ASSEMBLY	
7	GA5004085	BOLT M8 X 20 ZP GR8.8	2
8	GA3500211	HYDRAULIC ADAPTER, SOCKET, 1/4" FEMALE BSP X 1/4" FEMALE BSP	2
9	GA5011457	NUT M8 DOME NUT SS	2
10	GA5000577	WASHER 12MM FLAT SS HD	4

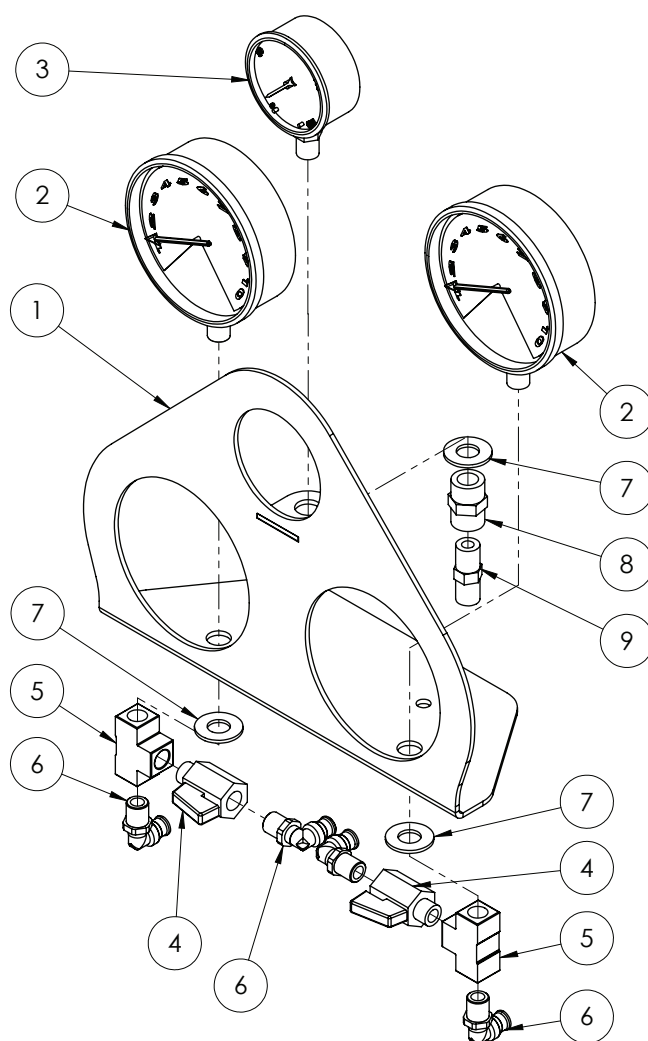
\* Sub-assembly on following pages

## Gauges - Air & Spray Assembly



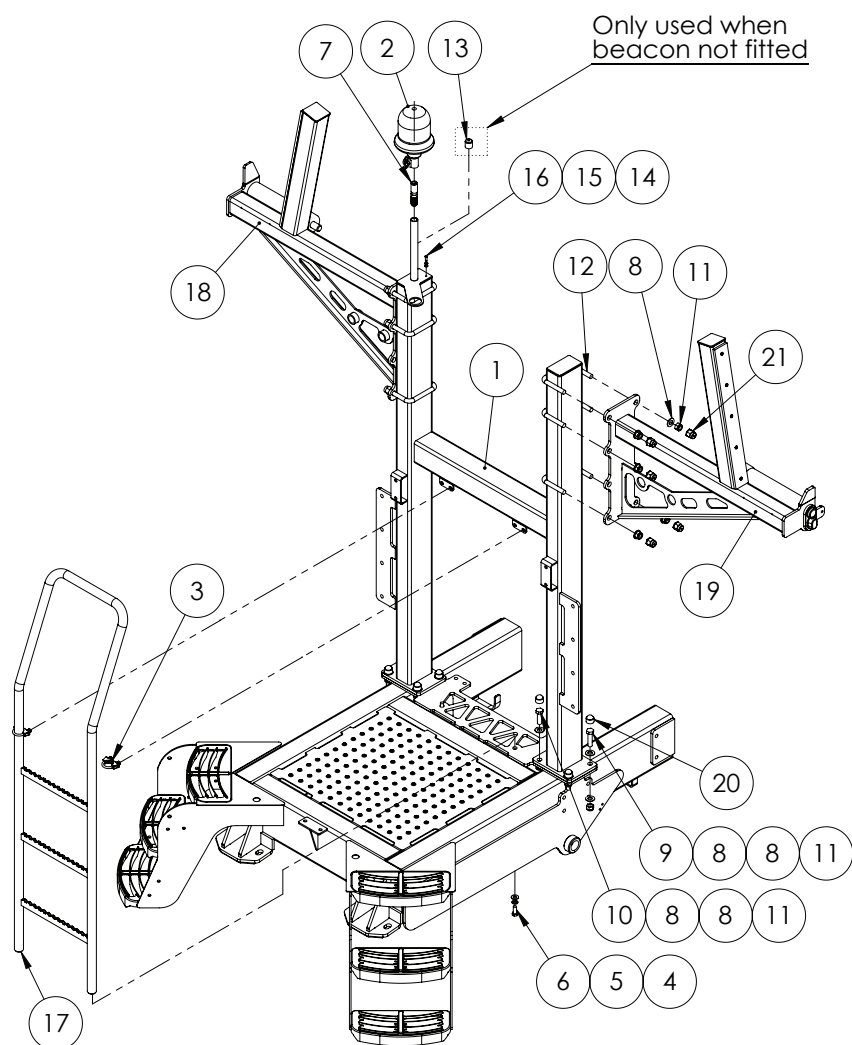
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4505000	PLATE FACE GAUGE PRAIRIE AIR AND SPRAY	1
2	GA4948470	GAUGE, PRESSURE, SMALL FACE, 160 PSI	1
3	GA4948460	GAUGE, PRESSURE, LARGE FACE, 160 PSI	1
4	GA5016233	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 6MM PUSH TYPE, METAL	2
5	GA5000577	WASHER 12MM FLAT SS HD	4
6	GA5018323	VALVE, BALL, 1/4" MALE / FEMALE THREAD INLET / OUTLET, SS, LEVER HANDLE	1
7	GA5048300	TEE, 1/4" FEMALE THREAD X 1/4" FEMALE THREAD X 1/4" FEMALE THREAD, BRASS	1
8	GA3500209	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPT FEMALE	1

## Gauges - Air & Dual Spray Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659700	PLATE FACE GAUGE AIR AND 2 X SPRAY PRESSURE	1
2	GA4948460	GAUGE, PRESSURE, LARGE FACE, 160 PSI	2
3	GA4948470	GAUGE, PRESSURE, SMALL FACE, 160PSI	1
4	GA5018323	VALVE, BALL, 1/4" MALE / FEMALE THREAD INLET / OUTLET, SS, LEVER HANDLE	2
5	GA5048300	TEE, 1/4" FEMALE THREAD X 1/4" FEMALE THREAD X 1/4" FEMALE THREAD, BRASS	2
6	GA5016233	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 6MM PUSH TYPE, METAL	4
7	GA5000577	WASHER 12MM FLAT SS HD	5
8	GA3500211	HYDRAULIC ADAPTER, SOCKET, 1/4" FEMALE BSP X 1/4" FEMALE BSP	1
9	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSP X 1/4" BSP	1





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654181	H-FRAME	1
2	GA5048975	BEACON, ROTATING, AMBER, DIN A POLE MOUNT, HI GLOBE	1
3	GA5075120	EXHAUST CLAMP 36MM HEAVY DUTY	2
4	GA5000577	WASHER 12MM FLAT SS HD	2
5	GA5000575	WASHER 12MM SPRING SS	2
6	GA5000305	SET SCREW M12 X 30 ZP GR8.8	2
7	GA5020411	BEACON INSERT, SCREW IN	1
8	GA5001043	WASHER 16MM FLAT SS HD	28
9	GA5000939	BOLT M16 X 60 BLACK GR8.8	4
10	GA5000931	BOLT M16 X 50 ZP GR8.8	4
11	GA5001029	NUT M16 NYLOC ZP	20
12	GA5011277	U BOLT, SQUARE TOP, M16 X 127MM X 110MM	6
13	GA5052650	CAP PLASTIC 25.4MM BLACK	1

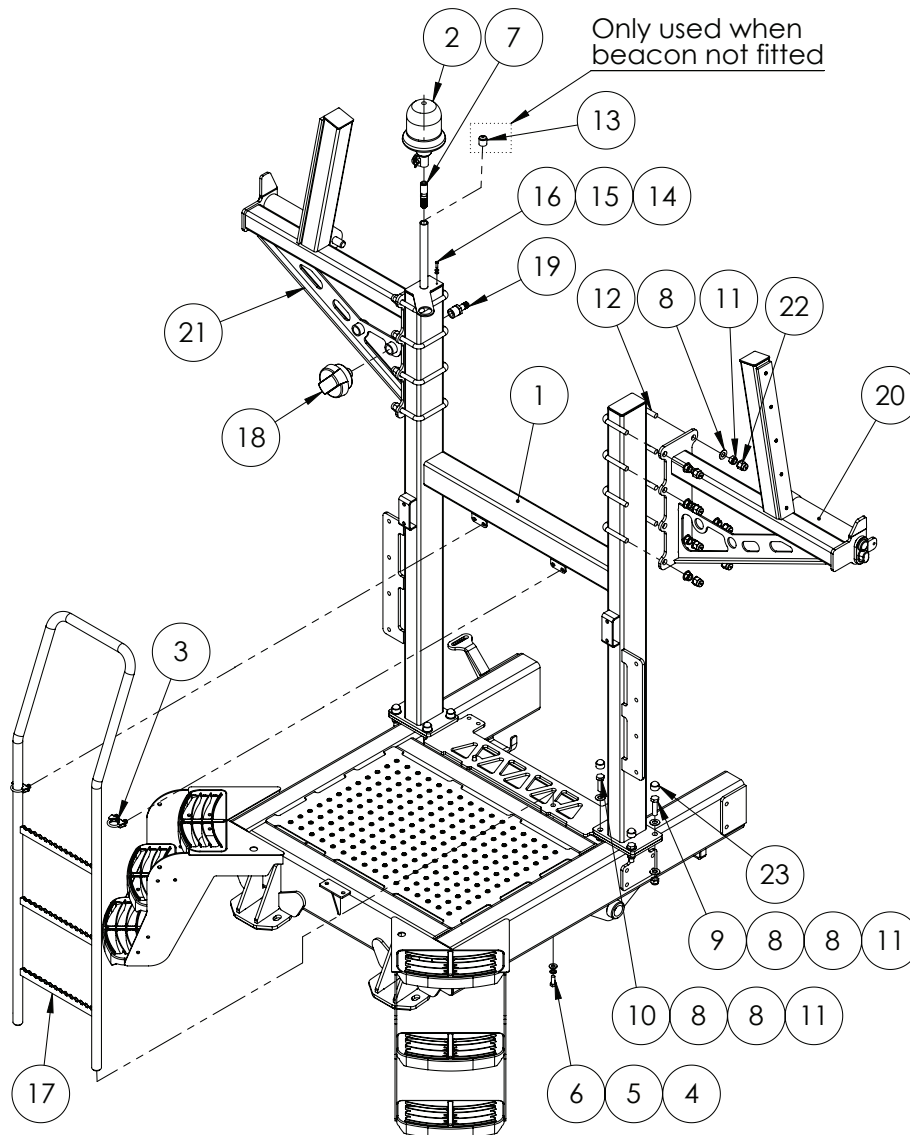
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## H-Frame - 5000-6500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	GA5004437	WASHER 6MM FLAT SS	1
15	GA5004447	WASHER, 6MM, SPRING, SS	1
16	GA5004053	BHCS M6 X 20 SS	1
17	GA4658161	LADDER	1
18	*	BOOM REST - 4000-6500L RIGHT / BOOM REST - 6500L - 30M RH	1
19	*	BOOM REST - 4000-6500L LEFT / BOOM REST - 6500L - 30M LH	1
20	GA5075080	HEX NUT PROTECTION CAP SUIT M16, BLACK	8
21	GA5054685	CAP M16 HEX NUT COVER	12

\* Sub-assembly on following pages

## H-Frame - 7500/8500L



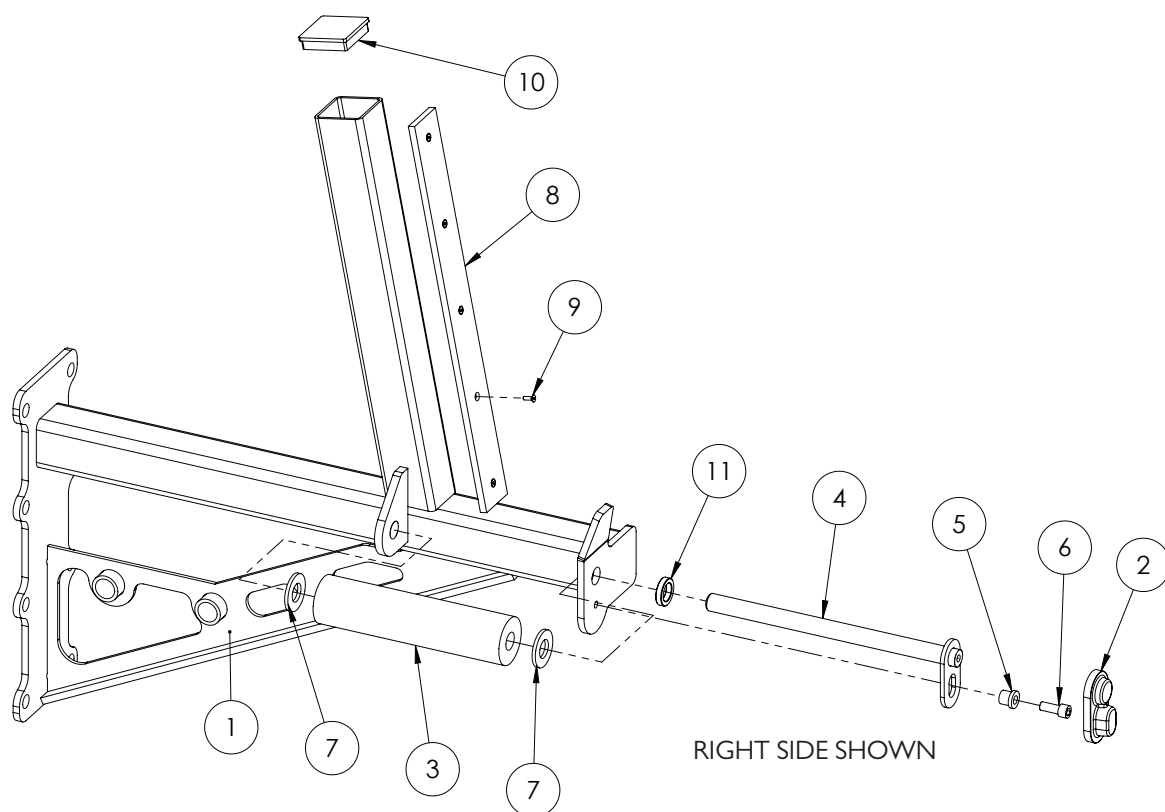
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654182	H FRAME SUIT PRAIRIE 7500L	1
2	GA5048975	BEACON, ROTATING, AMBER, DIN A POLE MOUNT, H I GLOBE	1
3	GA5075120	EXHAUST CLAMP 36MM HEAVY DUTY	2
4	GA5000577	WASHER 12MM FLAT SS HD	2
5	GA5000575	WASHER 12MM SPRING SS	2
6	GA5000305	SET SCREW M12 X 30 ZP GR8.8	2
7	GA5020411	BEACON INSERT, SCREW IN	1
8	GA5001009	WASHER 16MM FLAT ZP HD	28
9	GA5000939	BOLT M16 X 60 BLACK GR8.8	4
10	GA5000931	BOLT M16 X 50 ZP GR8.8	4
11	GA5001029	NUT M16 NYLOC ZP	20
12	GA5011277	U BOLT, SQUARE TOP, M16 X 127MM X 110MM	6

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## H-Frame - 7500/8500L

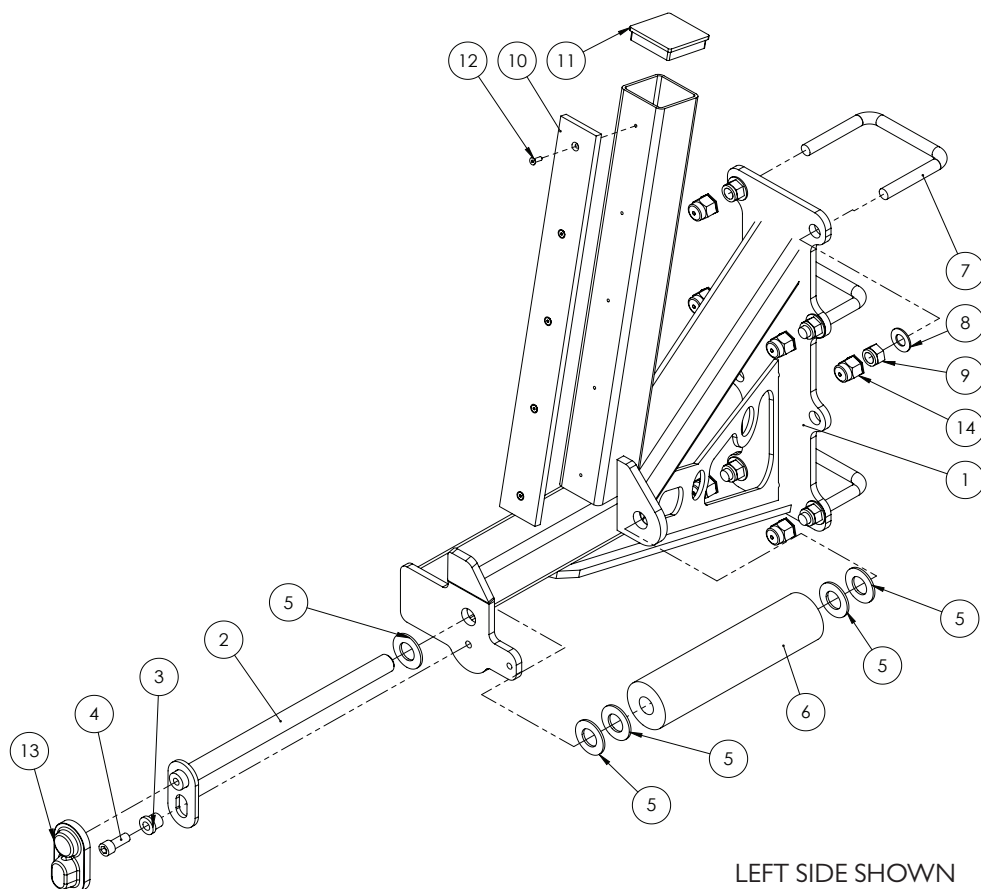
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
13	GA5052650	CAP PLASTIC 25.4MM BLACK	1
14	GA5004437	WASHER 6MM FLAT SS	1
15	GA5004447	WASHER, 6MM, SPRING, SS	1
16	GA5004053	BHCS M6 X 20 SS	1
17	GA4658161	LADDER	1
18	GA5005259	AIR FILTER, 1" BSP MALE THREAD	1
19	GA5077721	HOSE BARB, STRAIGHT, 1" MALE THREAD X 3/4" HOSE, BANJO	1
20	GA4904700-L	BOOM REST LEFT 7500L/8500L PRAIRIE TRI-TECH	1
21	GA4904700-R	BOOM REST RIGHT 7500L/8500L PRAIRIE TRI-TECH	1
22	GA5054685	CAP M16 HEX NUT COVER	16
23	GA5075080	HEX NUT PROTECTION CAP SUIT M16, BLACK	8

## Boom Rest - 5000-6500L



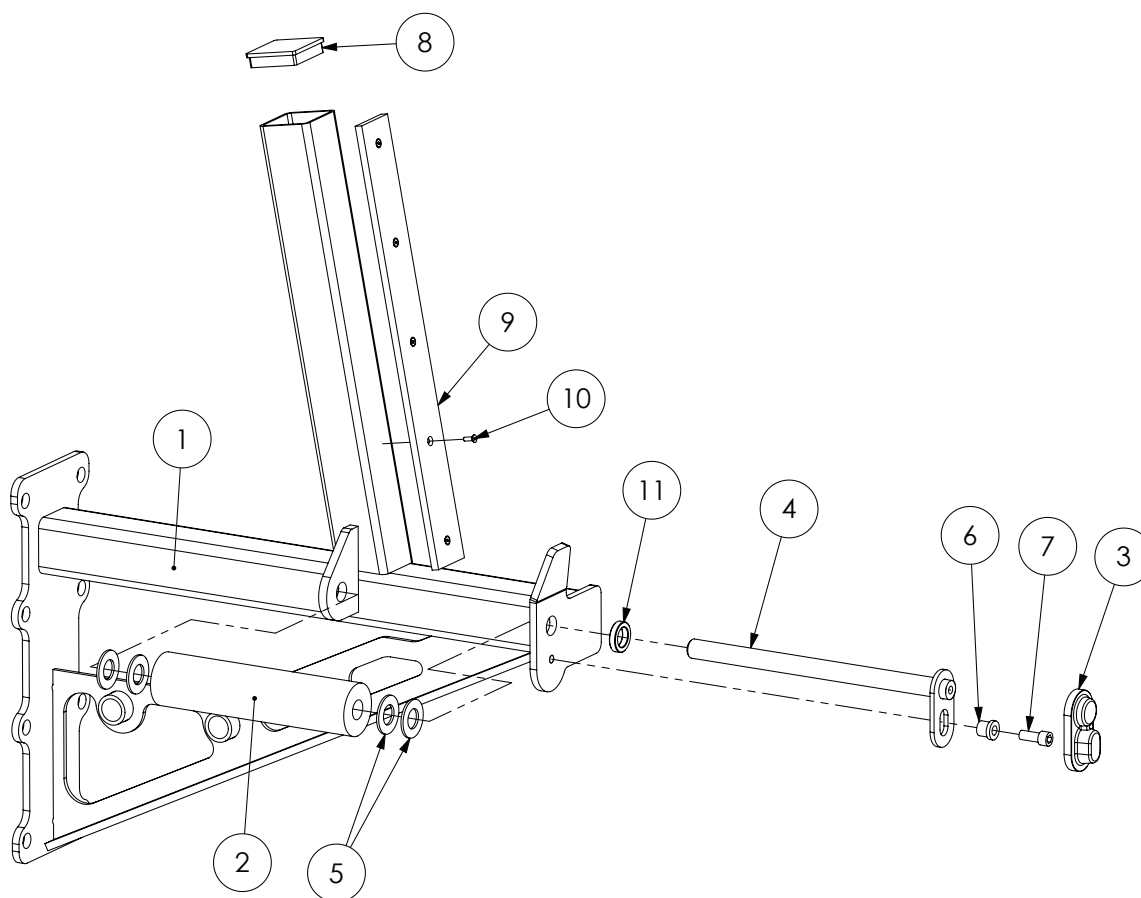
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659670	BOOM REST RH	1
	GA4659675	BOOM REST LH	1
2	GA5067885	PIN COVER, BLACK, CLIP ON, PLASTIC	1
3	GA5070700	ROLLER BOOM REST PRAIRIE	1
4	GA4658745	PIN SUIT BOOM REST ROLLER	1
5	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21 MM LONG	1
6	GA5000307	SHCS M12 X 30 ZP GR12.9	1
7	GA5017659	WASHER, 1", FLAT, ZP, HEAVY DUTY (5MM THICK)	2
8	GA5066630	WEAR STRIP, 65 WIDE X 590 LONG X 10MM THICK, POLYSTONE 7000SR	1
9	GA5051230	CSCS M5 X 16 COUNTERSINK SS	5
10	GA5052345	END CAP, INSERT, 75 X 75 MM, BLACK, PLASTIC	1
11	GA4572135	SPACER BUSH, 40 OD X 25.8 ID X 9MM THICK, PARALIFT ARM SPACER	1

## Boom Rest - 6500L - 30m Boom



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4906570	BOOM REST ASSEMBLY STEP BACK 250MM SUIT PRAIRIE LH - ASSEMBLY	-
-	GA4906575	BOOM REST ASSEMBLY STEP BACK 250MM SUIT PRAIRIE RH - ASSEMBLY	-
1	GA4659990	BOOM REST STEP BACK 250MM SUIT PRAIRIE LH	1
	GA4659995	BOOM REST STEP BACK 250MM SUIT PRAIRIE RH	1
2	GA4658745	PIN SUIT BOOM REST ROLLER	1
3	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21MM LONG	1
4	GA5000307	SHCS M12 X 30 ZP GR12.9	1
5	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	5
6	GA5070700	ROLLER BOOM REST PRAIRIE	1
7	GA5011277	U BOLT, SQUARE TOP, M16 X 127MM X 110MM	3
8	GA5001043	WASHER 16MM FLAT SS HD	6
9	GA5001029	NUT M16 NYLOC ZP	6
10	GA5066630	WEAR STRIP, 65 WIDE X 590 LONG X 10MM THICK, POLYSTONE 7000SR	1
11	GA5052345	END CAP, INSERT, 75 X 75 MM, BLACK, PLASTIC	1
12	GA5051230	CSCS M5 X 16 COUNTERSINK SS	5
13	GA5067885	PIN COVER, BLACK, CLIP ON, PLASTIC	1
14	GA5054685	CAP M16 HEX NUT COVER	6

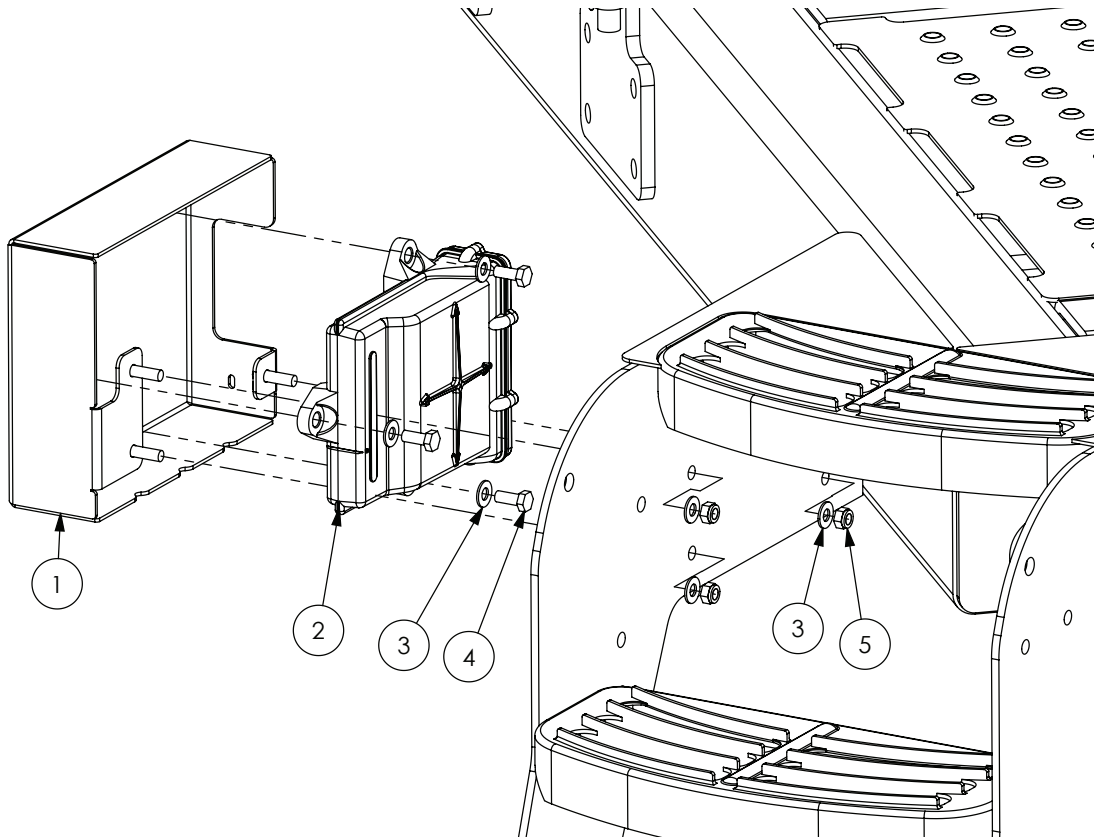
## Boom Rest - 7500/8500L



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4904700-L	BOOM REST LEFT 7500L/8500L PRAIRIE TRI-TECH - ASSEMBLY	-
-	GA4904700-R	BOOM REST RIGHT 7500L/8500L PRAIRIE TRI-TECH - ASSEMBLY	-
1	GA4659671	BOOM REST PRAIRIE RH 7500 8500	1
	GA4659676	BOOM REST PRAIRIE LH 7500 8500	1
2	GA5070700	ROLLER BOOM REST PRAIRIE	1
3	GA5067885	PIN COVER, BLACK, CLIP ON, PLASTIC	1
4	GA4658745	PIN SUIT BOOM REST ROLLER	1
5	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	4
6	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21 MM LONG	1
7	GA5000307	SHCS M12 X 30 ZP GR12.9	1
8	GA5052345	END CAP, INSERT, 75 X 75 MM, BLACK, PLASTIC	1
9	GA5066630	WEAR STRIP, 65 WIDE X 590 LONG X 10MM THICK, POLYSTONE 7000SR	1
10	GA5051230	CSCS M5 X 16 COUNTERSINK SS	5
11	GA4572135	SPACER BUSH, 40 OD X 25.8 ID X 9MM THICK, PARALIFT ARM SPACER	1

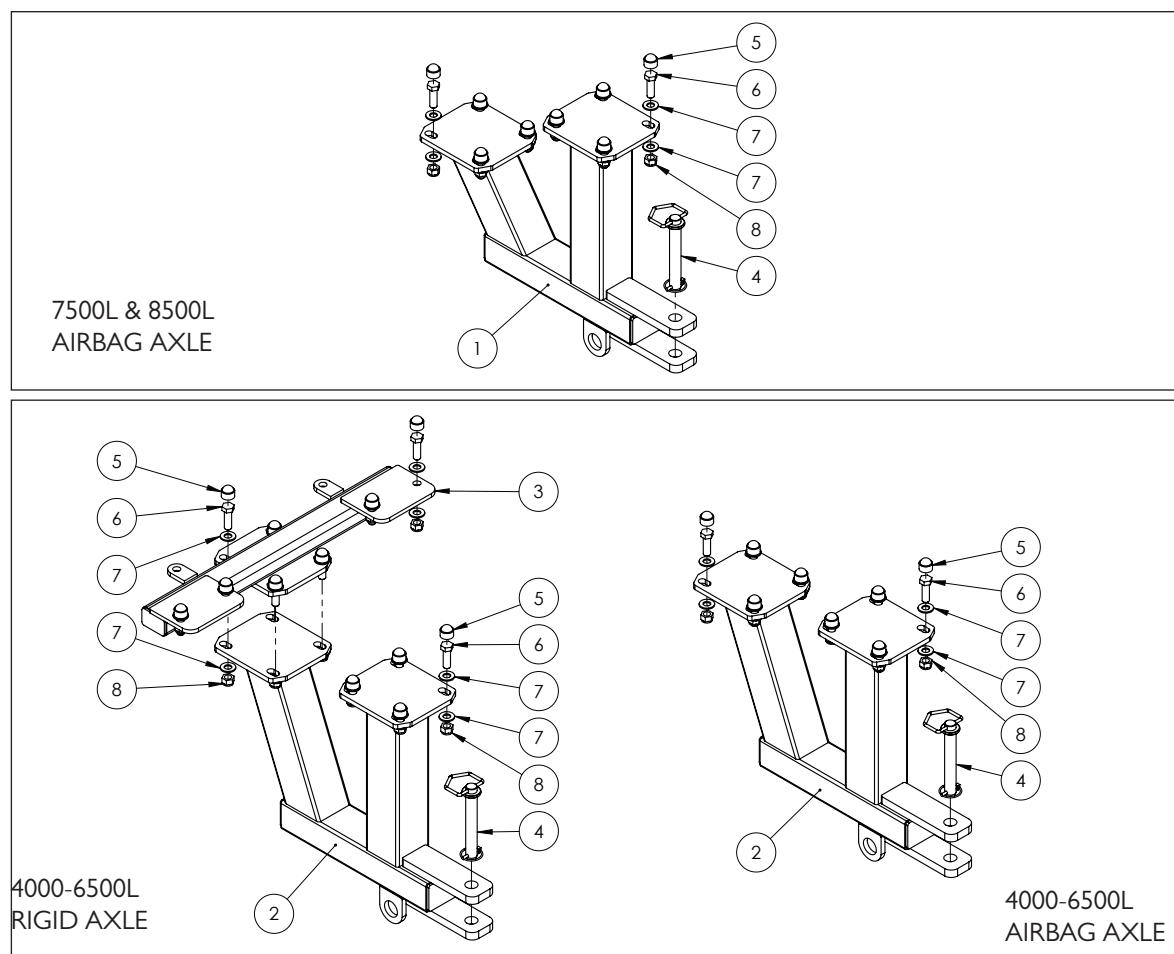


# ISOBUS Node Cover



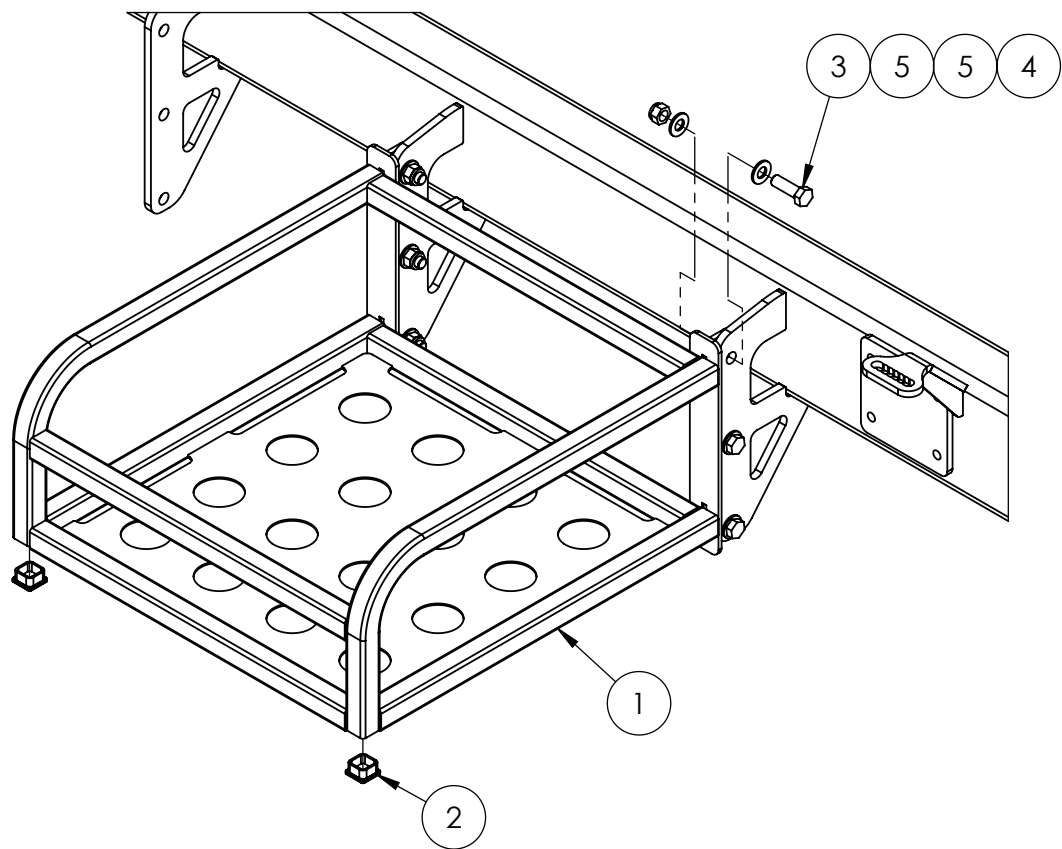
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4660275	COVER, ISO NODE WELDED PRAIRIE	1
2	GA5071380	NODE, ECU ISO BUS CAN, PRODUCT CONTROLLER, RAVEN	1
3	GA5003643	WASHER 8MM FLAT SS HD	6
4	GA5004085	BOLT M8 X 20 ZP GR8.8	3
5	GA5052590	NUT M8 NYLOC SS	3

## Towbars



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4655471	TOWBAR, SUIT 7500L & 8500L, AIRBAG SUSPENSION	1
2	GA4655466	TOWBAR, SUIT 4000-6500L	1
3	GA4655467	TOWBAR MOUNT, SUIT 4000-6500L, RIGID AXLE	1
4	GA5051930	TOW PIN WITH CHAIN	1
5	GA5075080	END CAP, PLASTIC, BLACK, DOME - 7500 & 8500L, AIRBAG AXLE	8
		END CAP, PLASTIC, BLACK, DOME - 4000-6500L, AIRBAG AXLE	8
6	GA5000931	END CAP, PLASTIC, BLACK, DOME - 4000-6500L, RIGID AXLE	12
		BOLT M16 X 50 GR8.8 ZP - 7500 & 8500L, AIRBAG AXLE	8
		BOLT M16 X 50 GR8.8 ZP - 4000-6500L, AIRBAG AXLE	8
7	GA5001043	BOLT M16 X 50 GR8.8 ZP - 4000-6500L, RIGID AXLE	12
		WASHER 16MM FLAT SS HD - 7500 & 8500L, AIRBAG AXLE	16
		WASHER 16MM FLAT SS HD - 4000-6500L, AIRBAG AXLE	16
8	GA5001029	WASHER 16MM FLAT SS HD - 4000-6500L, RIGID AXLE	24
		M16 NYLOC NUT - 7500 & 8500L, AIRBAG AXLE	8
		M16 NYLOC NUT - 4000-6500L, AIRBAG AXLE	8
		M16 NYLOC NUT - 4000-6500L, RIGID AXLE	12

# Drum Holder

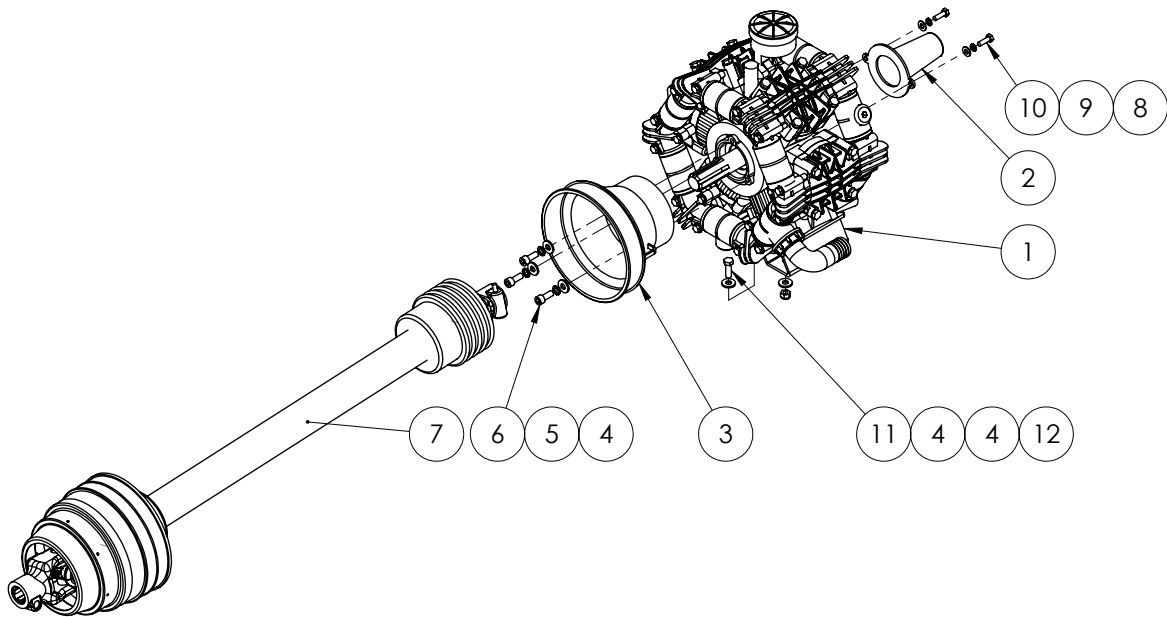


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654461	DRUM STORAGE UNIT	1
2	GA5002911	END CAP, PLASTIC, BLACK, INSERT, RHS. 35 X 35, 1.0 - 3.0MM WALL	2
3	GA5000931	BOLT M16 X 50 GR8.8 ZP	6
4	GA5001029	NUT M16 NYLOC ZP	6
5	GA5001043	WASHER 16MM FLAT SS HD	12

## Chapter 2

### PUMPS

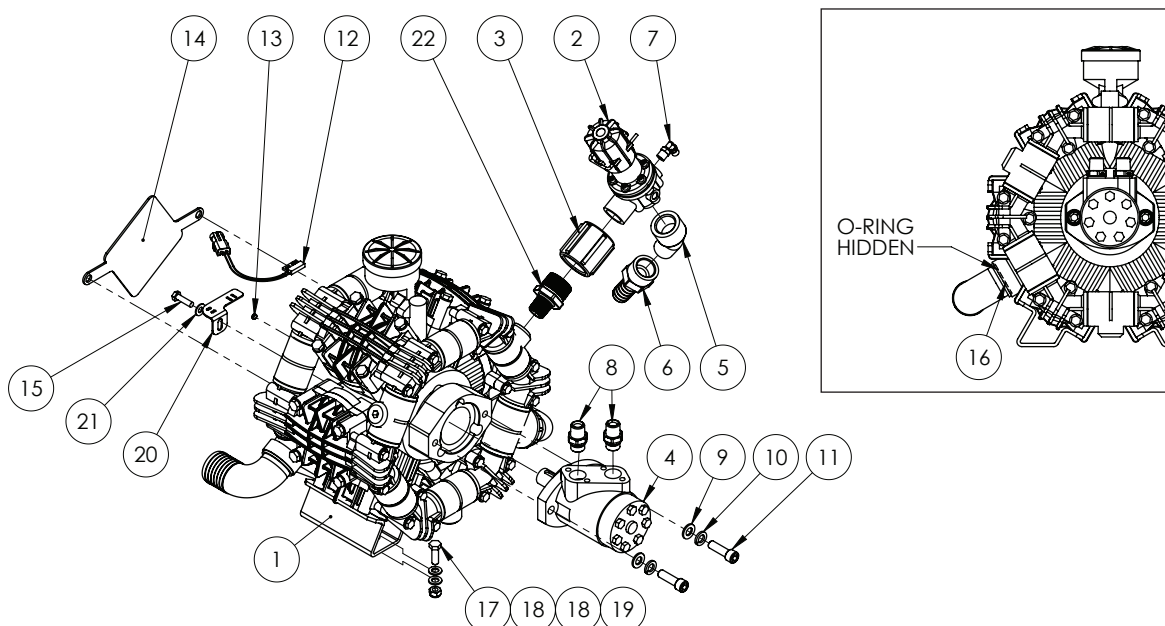
#### Zeta 260 - PTO Drive



##### ZETA COVER KIT

PART NUMBER		DESCRIPTION	
GA5023075		COVER KIT, SUIT ZETA 170 & 260 PTO PUMP	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054505	PUMP, DIAPHRAGM TYPE, ZETA 260, THROUGH SHAFT PTO DRIVE, UDOR	1
2	GA5013499	GUARD, PLASTIC, PTO PROTECTOR SUIT REAR OF 2C PUMPS	1
3	GA5076401	PTO COVER, BLACK, FRONT, SUIT 170 AND 260 SPRAY PUMPS	1
4	GA5000117	WASHER 10MM FLAT SS HD	11
5	GA5000137	WASHER 10MM SPRING SS	3
6	GA5071085	SHCS M10 X 25 ZP GR12.9	3
7	GA5013511	PTO SHAFT WIDE ANGLE SUIT ADVANCE EF 1.05M	1
	GA5060830	PTO SHAFT STANDARD ANGLE 1.05M, SUITS EF SPECIAL	
8	GA5003643	WASHER 8MM FLAT SS HD	2
9	GA5004919	WASHER 8MM SPRING SS	2
10	GA5004711	BOLT M8 X 25 ZP GR8.8	2
11	GA5065455	BOLT M10 X 30 ZP GR8.8	4
12	GA5000141	NUT M10 NYLOC ZP	4

## Zeta 260 - Hydraulic Drive



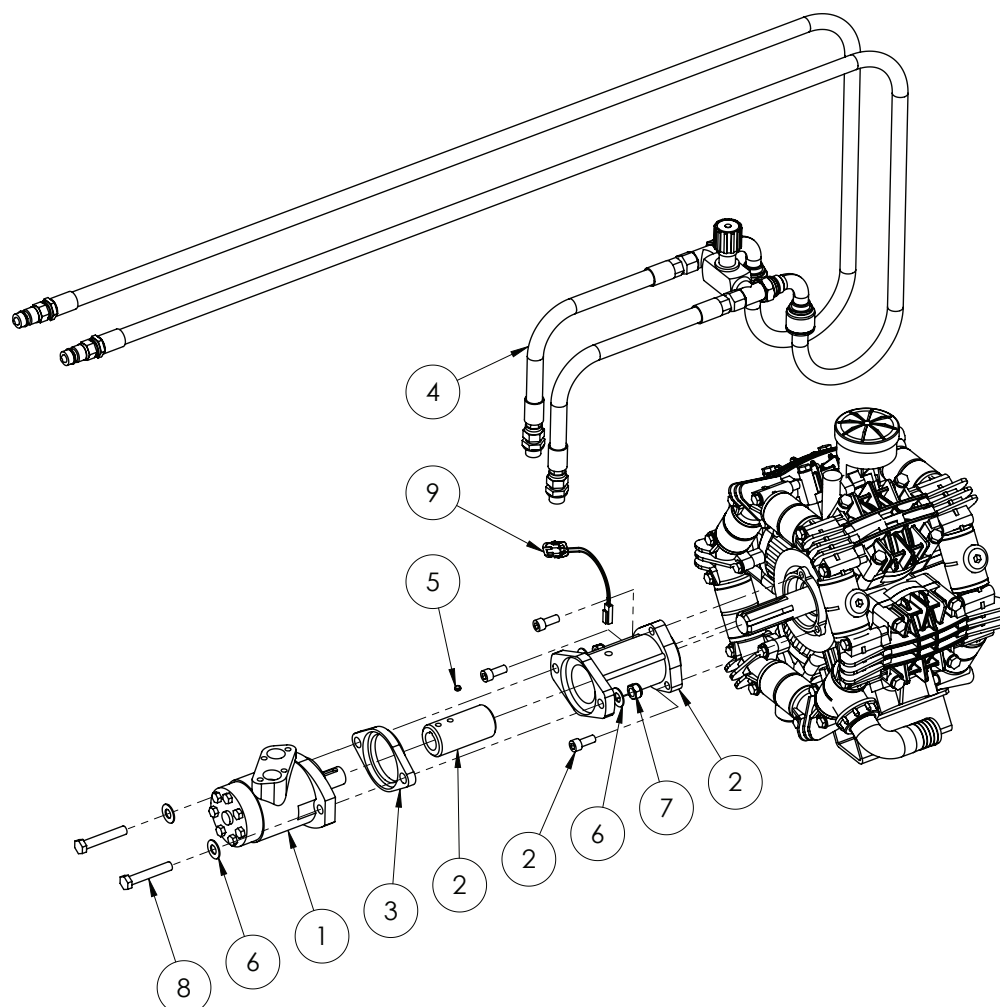
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5067186	HOSE ASSEMBLY KIT HYDRAULIC DRIVE SUIT HOSE SUPPORT	-
1	GA5054500*	PUMP ZETA 260 MI-I	1
2	GA5075640	VALVE, PRESSURE RELIEF, 15 BAR, 1" MALE THREAD INLET X 1 1/4" MALE THREAD OUTLET, POLMAC	1
3	GA5077639	COUPLING, SOCKET, 1 1/4" FEMALE THREAD	1
4	GA5047515	MOTOR, HYDRAULIC, 80CC/REV, 25.4MM SHAFT, SUIT SPRAY PUMP DRIVE	1
5	GA5078136	STREET ELBOW, 45 DEGREE, 1" MALE THREAD X 1" FEMALE THREAD	1
6	GA5077747	HOSE BARB, STRAIGHT, 1" FEMALE THREAD X 1" HOSE	1
7	GA5016233	ELBOW - SWIVEL 6MM X 1/4"	1
8	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	2
9	GA5000577	WASHER 12MM FLAT SS HD	2
10	GA5000575	WASHER 12MM SPRING SS	2
11	GA5000321	SHCS M12 X 40 GR12.9 ZP	2
12	GA5076307	PUMP RPM SENSOR WITH CONNECTOR SUIT 4400/4070	1
13	GA5016169	MAGNET, HIGH STRENGTH, 12MM DIAMETER X 1.5MM THICK	1
14	PUMPCOVER250	PLATE, REAR PUMP SHAFT COVER, RO250, ZETA 260 AND 300	1
15	GA5011475	BOLT M8 X 30 GR8.8 ZP	1
16	GA5048385	O RING, 42.5 X 2.62, BS131, SUIT 2" HOSE BARB	1
17	GA5065455	BOLT M10 X 30 GR8.8 ZP	4
18	GA5000117	WASHER 10MM FLAT SS HD	8

\* Sub-assembly on following pages

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## Zeta 260 - Hydraulic Drive Conversion Kit



NOTE: MACHINES FITTED WITH 70 SERIES PUMP RPM MONITORS USE THE PARTS BELOW:

## RPM MONITOR & SPEED SENSOR

PART NUMBER	DESCRIPTION	QTY.
GA5077195	70 SERIES RPM MONITOR & SPEED SENSOR - COMPLETE	1
GA5076542	TEEJET SPEED SENSOR	1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047515	MOTOR, HYDRAULIC, 80CC/REV, 25.4MM SHAFT, SUIT SPRAY PUMP DRIVE	1
2	GA5077663	ADAPTOR, HYDRAULIC MOTOR TO UDOR PTO PUMP ONLY, KIT INCLUDES HOUSING, COUPLER, 2 GRUB SCREWS, 3 BOLTS	1
3	GA4552100	SPACER PLATE, SUIT ADAPTER PTO TO HYDRAULIC DRIVE, UDOR	1
4	GA5067186*	HOSE ASSEMBLY KIT HYDRAULIC DRIVE SUIT HOSE SUPPORT	1
5	GA5016169	MAGNET, HIGH STRENGTH, 12MM DIAMETER X 1.5MM THICK	1
6	GA5000577	WASHER 12MM FLAT SS HD	4

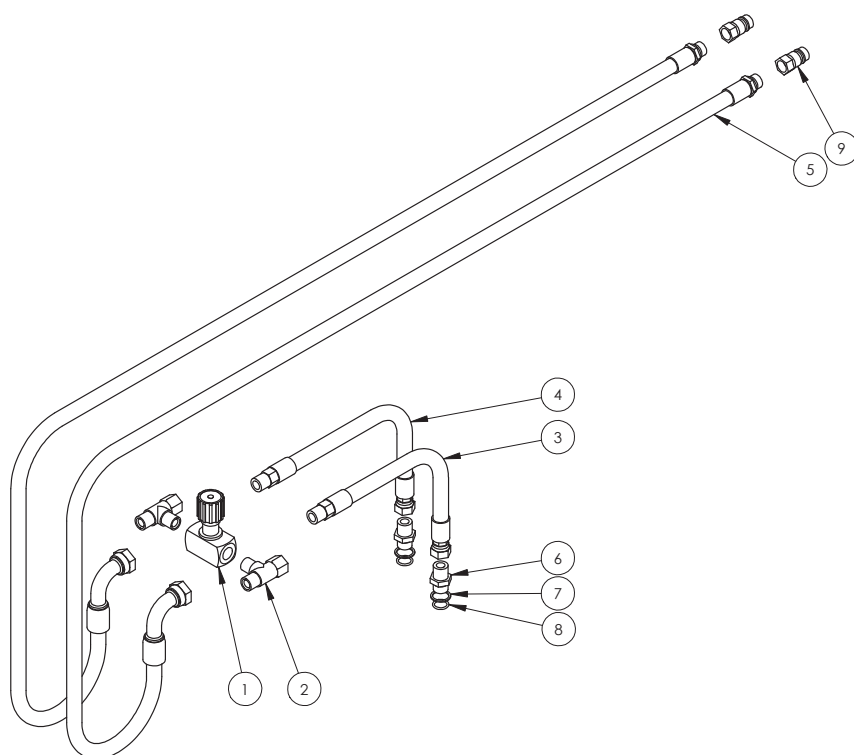
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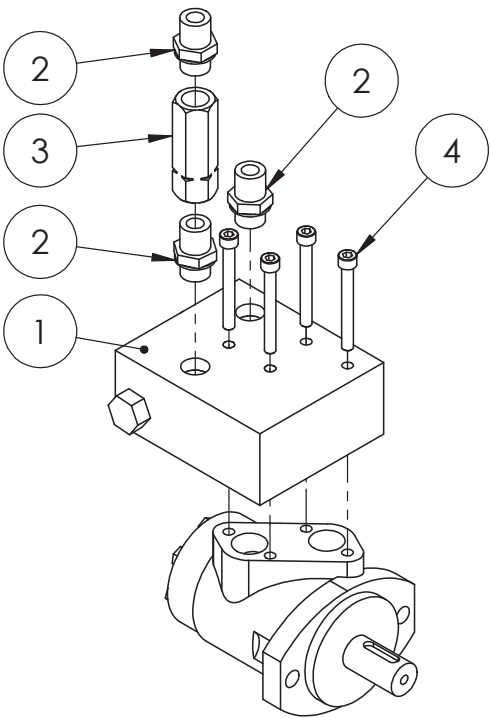
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	GA5012461	NUT M12 NYLOC ZP	2
8	GA5000347	BOLT M12 X 70 ZP GR8.8	2
9	GA5076307	SENSOR, SPRAY PUMP RPM, SUIT 4400 / 4070	1

## Zeta 260 - Hydraulic Hose Kit



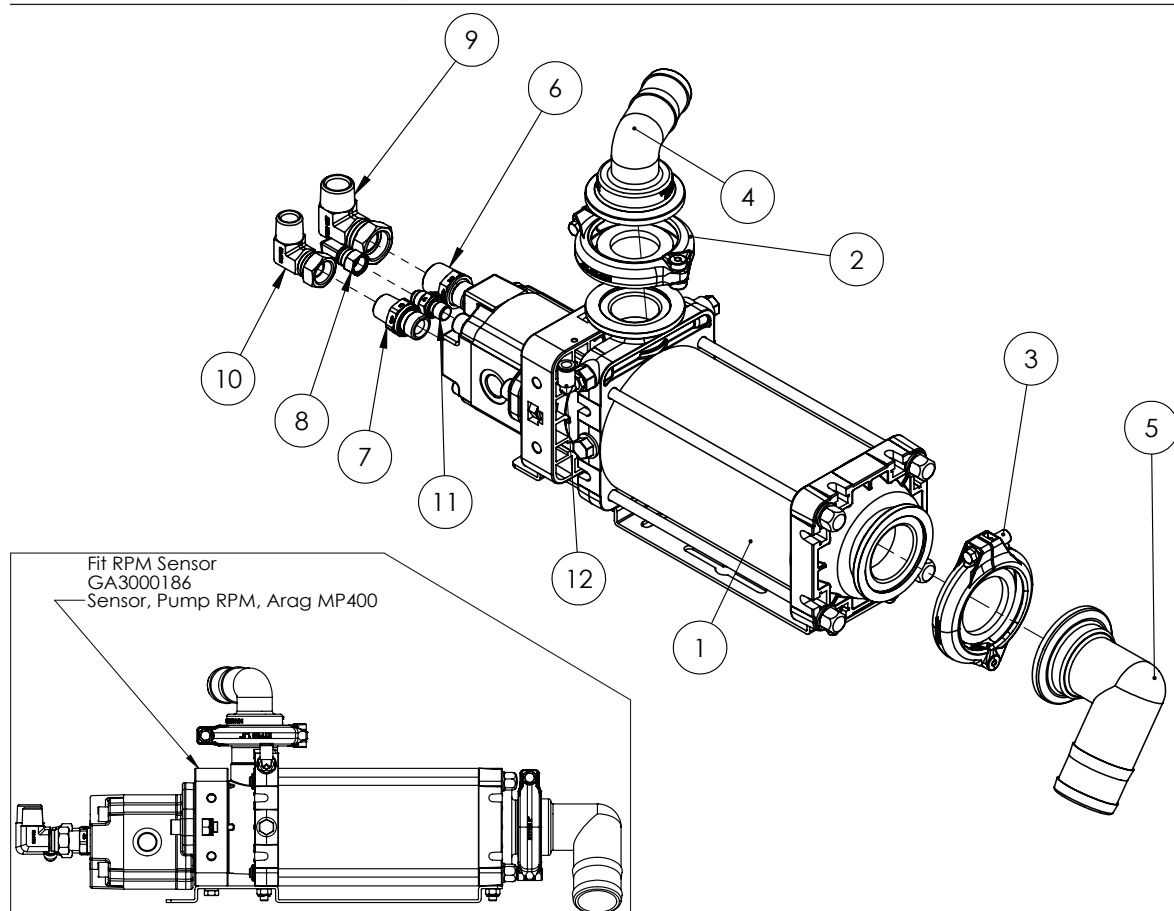
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5067186	HOSE ASSEMBLY KIT HYDRAULIC DRIVE SUIT HOSE SUPPORT	-
-	GA5052365	COVER, GREEN PLASTIC, SUIT GA5078000	2
1	GA5018221	VALVE CHECK NEEDLE THROTTLE 1/2"	1
2	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
3	GA4922110	HYDRAULIC HOSE, SUIT HYDRAULIC PRODUCT PUMP ON PRAIRIE, MOTOR TO NEEDLE VALVE	1
4	GA4922115	HYDRAULIC HOSE, SUIT HYDRAULIC PRODUCT PUMP ON PRAIRIE, MOTOR TO NEEDLE VALVE	1
5	GA4922105	HYDRAULIC HOSE, SUIT HYDRAULIC PRODUCT PUMP ON PRAIRIE, TRACTOR TO NEEDLE VALVE	2
6	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	2
7	GA5076891	RING, RETAINING BSPP 1/2"	2
8	GA5078121	O-RING BSPP 1/2"	2
9	GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD	2

# Zeta 260 - Hydraulic Pressure Flow Compensator



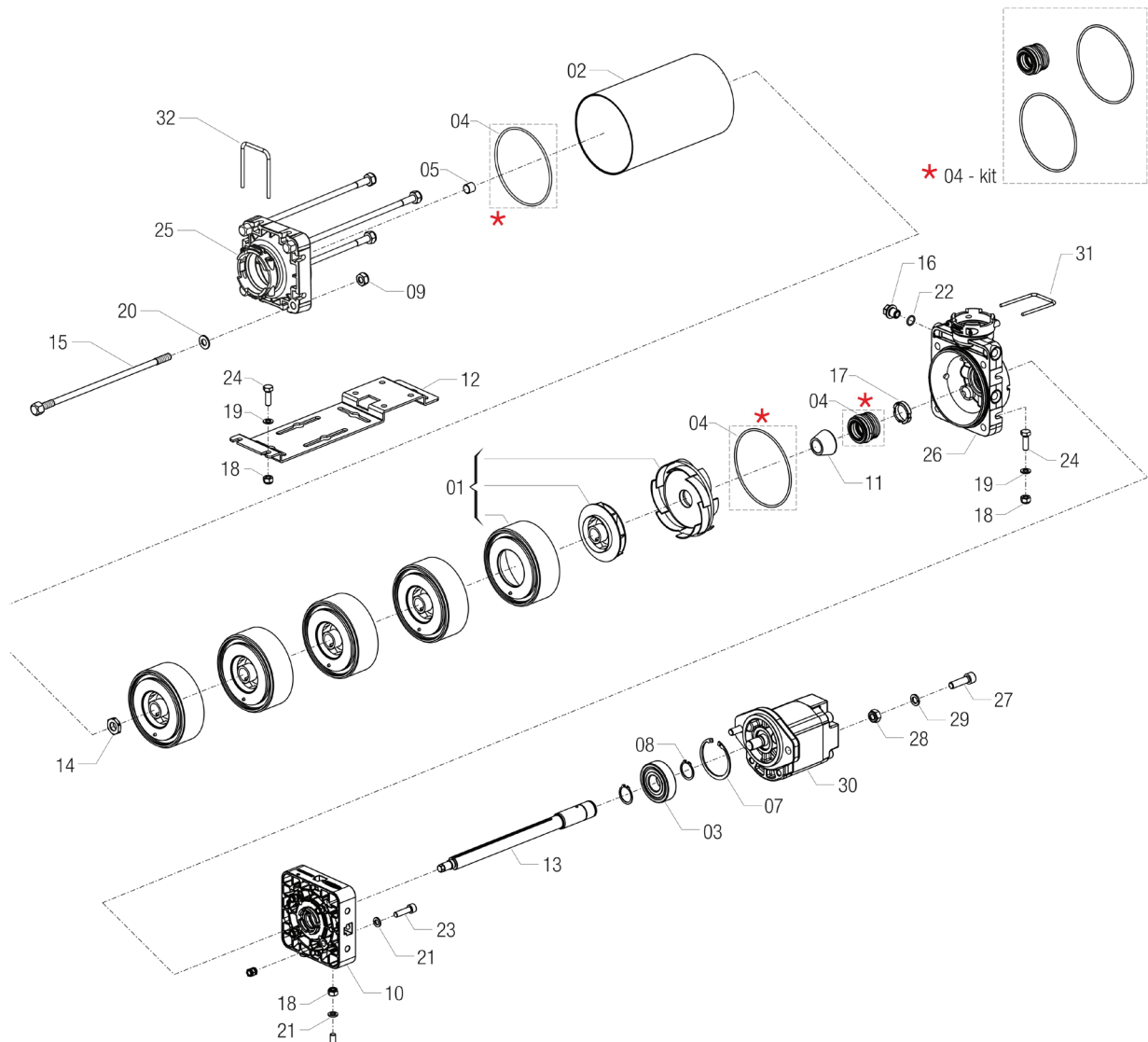
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5049425	MANUAL FLOW CONTROL	1
2	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	3
3	GA5007060	VALVE, CHECK, HYDRAULIC, 1/2" BSPP FEMALE INLET & OUTLET, 45L/MIN FLOW, MAXIMUM 320BAR	1
4	GA5049430	SHCS M8 X 70 ZP GR12.9	4

## ARAG MSP400 Spray Pump



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA3000186	SENSOR, PUMP RPM, ARAG MP400	1
1	GA2000123	PUMP, MULTISTAGE CENTRIFUGAL, HYDRAULIC DRIVE, 2" FP FLANGE INLET, 2" SP FLANGE OUTLET, ARAG MP400	1
2	GA2000114	FLANGE CLAMP, AND GASKET, 1.5"	1
3	GA2000115	FLANGE CLAMP, AND GASKET, 2"	1
4	GA5077834	HOSE BARB, ELBOW, 90 DEGREE, 2" FLANGE X 1 1/2" HOSE	1
5	GA5077860	HOSE BARB, ELBOW, 2 FP FLANGE X 2 HB 90 DEGREE	1
6	GA3500313	HYDRAULIC ADAPTOR, NIPPLE, 3/4" BSPT MALE X 1/2" BSPP MALE	1
7	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	1
8	GA3500002	HYDRAULIC ADAPTOR ELBOW, 90 DEGREE, 9/16" MALE JIC, 9/16" FEMALE SWIVEL	1
9	GA3500334	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 3/4" BSPT MALE X 3/4" BSPP FEMALE SWIVEL	1
10	GA3500333	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	1
11	GA3500544	HYDRAULIC ADAPTOR NIPPLE, 1/4" BSP O-RING X 9/16" JIC	1
12	GA5052690	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 8 MM PUSH TYPE, METAL	1

# ARAG MSP400 Spray Pump Assembly



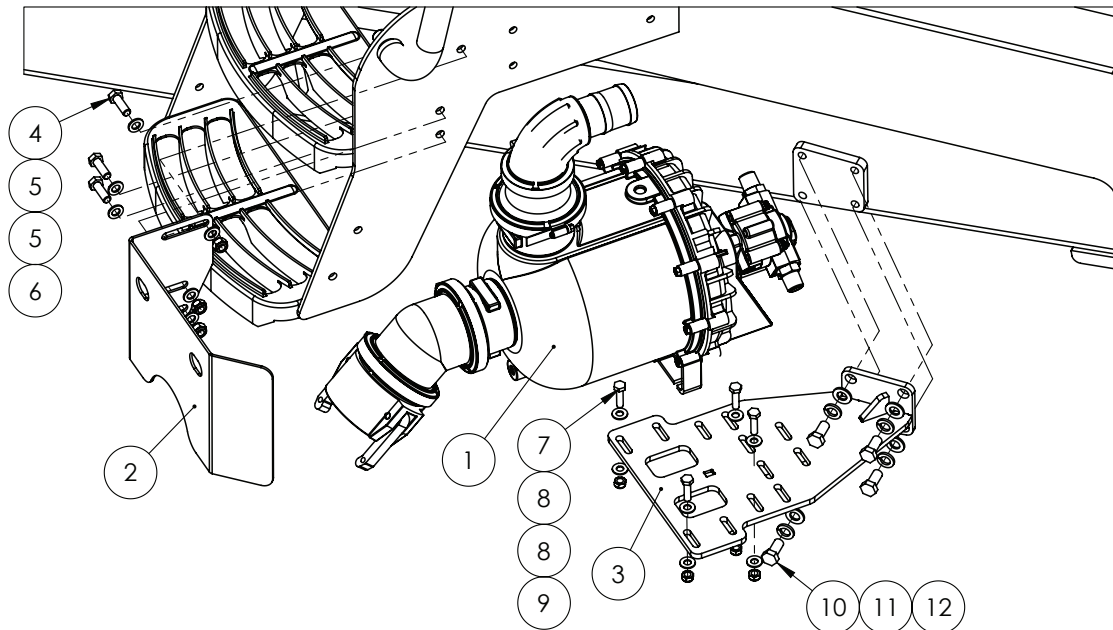
3ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA3000186	SENSOR, PUMP RPM, ARAG MP400	-
-	GA2000129	PUMP, MULTISTAGE CENTRIFUGAL, T7 INLET T6 OUTLET, ARAG MP400, PUMP ONLY, NO MOTOR OR RPM SENSOR	-
1	GA5073640	IMPELLER KIT MSP400 PP PUMP	-
2	970050.040	EXTERNAL PIPE MSP400 PUMP 5S	-
3	970000.061	RADIAL BALL BEARING 6305-2RS	-
4	GA5073620	TIGHTENING KIT	-
5	970000.081	BUSHING IGUS XSM-1214-12	-
7	B332Z2	INNER SEEGER D.62 S.STEEL UNI7437	-
8	B322X1	OUTER SEEGER D.25 S.STEEL UNI7435	-
9	BI2261	SELF-LOCKING NUT M10 INOX UNI7474	-
10	970000.060	BEARING SUPPORT PUMP MP400	-

Continued over page

## ARAG MSP400 Spray Pump Assembly

3ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	GA5073625	INTERNAL SPACER MSP400 PUMP	-
12	970050.090	FIXING BRACKET MSP400 PUMP 5S	-
13	970050.050	MSP400 PUMP SHAFT 5S COMPLETE	-
14	970000.082	MSP400 IMPELLERS TIGHTENING BOLT	-
15	970050.091	FIXING SCREWS 10X268 S.STEEL	-
16	970000.084	CAP 1/4" M	-
17	GA5073630	SEAL SPACER	-
18	B1225I	SELF-LOCKING NUT M8 INOX UNI7474	-
19	B202H0	FLAT WASHER 8,4X15X1,5 INOX	-
20	B202J0	FLAT WASHER D.10,5X21X2 * INOX	-
21	B222H0	WASHER GROVER D 8,2 INOX UNI1751	-
22	G11015V	OR 1,78X12,42 VITON	-
23	V1C25L	SCREW TCEI 8X30 INOX UNI 5931	-
24	V1M25K	SCREW TE 8X25 INOX	-
25	970000.115	T7F ADAPTER MSP400 PUMP	-
26	970000.110	T6F ADAPTER MSP400 PUMP	-
27	V1C26M	SCREW TCEI 10X35 INOX UNI 5931	-
28	B1226I	SELF-LOCKING NUT M10 INOX UNI7474	-
29	B222J0	WASHER GROVER 10,5X17,5X2,2 * INOX	-
30	GA5073645	11.2CC MOTOR	-
31	10006	FORK D.4 DIST.47	-
32	10007	FORK D.5 DIST.59	-

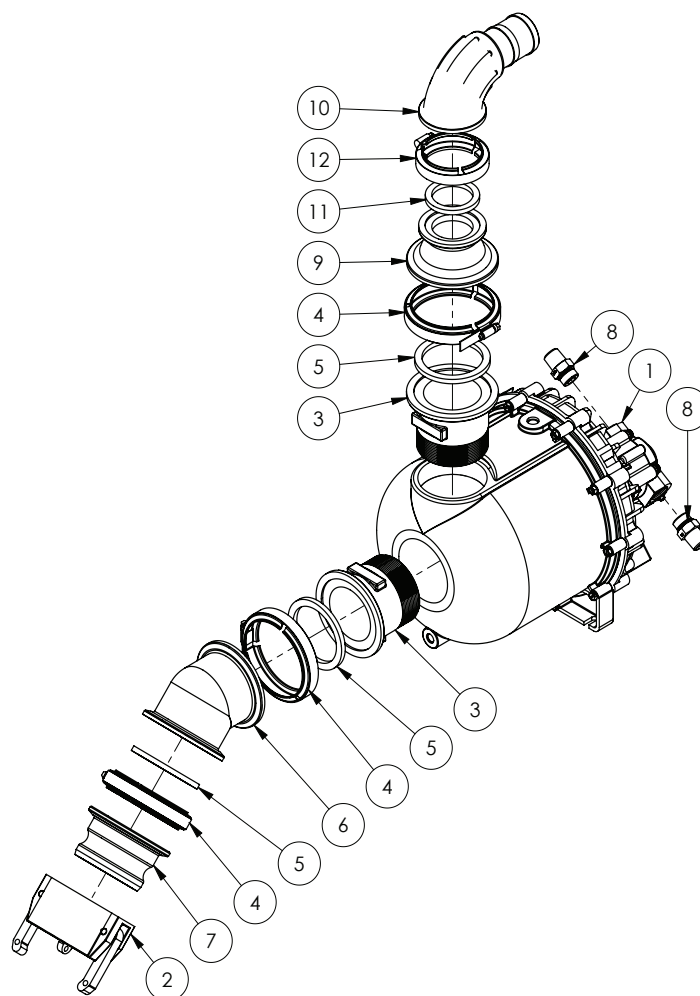
## Hydraulic Fill Pump Mounting



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	HYDRAULIC FILL PUMP ASSEMBLY	1
2	GA4523865	MOUNT, TAP, FILL PUMP	1
3	GA4658170	MOUNTING BRACKET, HYDRAULIC FILL PUMP	1
4	GA5065455	BOLT M10 X 30 GR8.8 ZP	3
5	GA5000117	WASHER 10MM FLAT SS HD	6
6	GA5000141	NUT M10 NYLOC ZP	3
7	GA5011475	BOLT M8 X 30 GR8.8 ZP	4
8	GA5003643	WASHER 8MM FLAT ZP HD	8
9	GA5004917	NUT M8 NYLOC ZP	4
10	GA5011229	BOLT M12 X 25 GR8.8 ZP	4
11	GA5000575	WASHER 12MM SPRING SS	4
12	GA5000577	WASHER 12MM FLAT SS HD	4

\* Sub-assembly on following pages

## Hydraulic Fill Pump Fittings Assembly



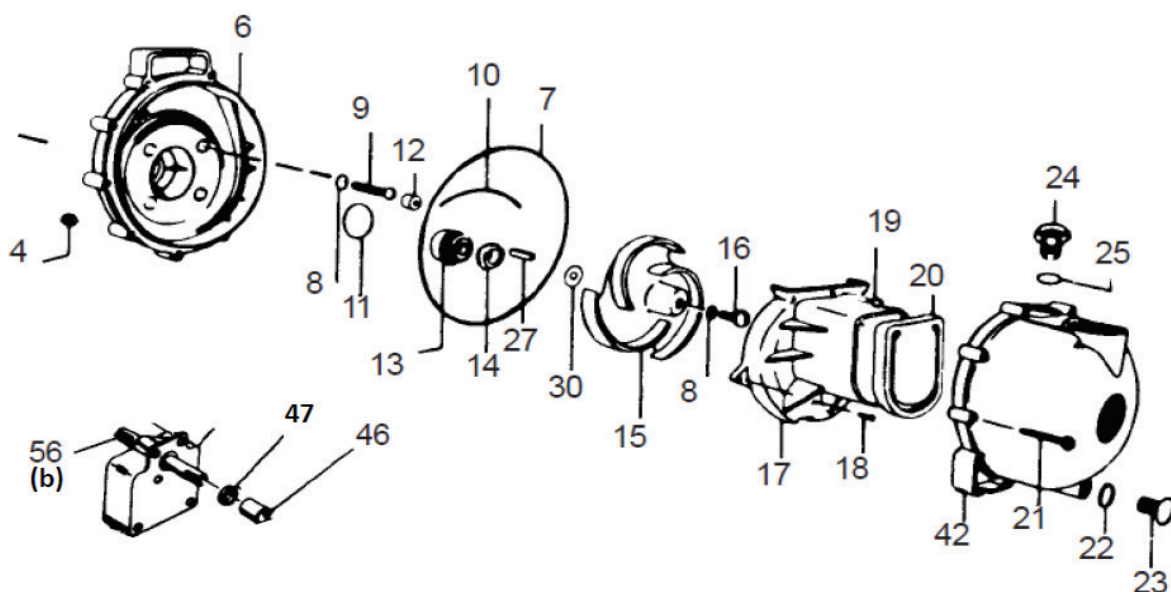
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5072085*	PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
2	GA5076719	CAM LEVER, FEMALE CAP, 3", BANJO	1
3	GA5077876	PLUMBING FITTING, 3" FLANGE TO 3" BSP THREAD, BANJO	2
4	FC300	HOSE CLAMP, WORM SCREW, 3"	3
5	GA5076723	SEAL, EPDM, SUIT 3" FLANGE FITTING, BANJO	3
6	GA2000070	PLUMBING FITTING, ELBOW, 45 DEGREE, 3" FLANGE BOTH ENDS, BANJO	1
7	GA5077873	3" MALE ADAPTER X 3" MANIFOLD	1
8	GA3500364	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 7/8" UN MALE O-RING	2
9	GA5077872	REDUCING FLANGE, 2" FLANGE X 3" FLANGE, BANJO	1
10	GA2000071	PLUMBING FITTING, SWEEP ELBOW, 90 DEGREE, 2" FLANGE TO 2" BARB	1
11	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING, BANJO	1
12	FC220	2" FULL PORT WORM SCREW CLAMP	1

\* Sub-assembly on following pages

Continued over page



## Hydraulic Fill Pump Assembly

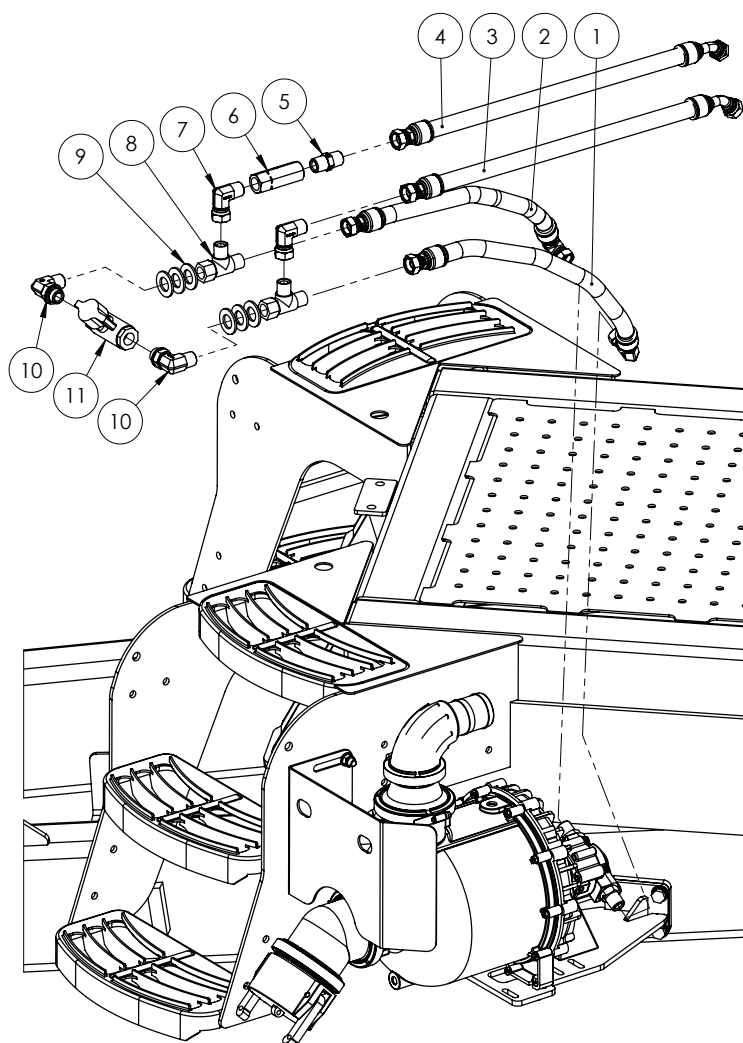


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5072600	SEAL CONVERSION KIT, PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
-	GA5072075	SEAL KIT, PUMP, POLY 3" BSP, SERVICE KIT, NO MECH SEAL	1
6	GA5072631	PUMP CASING, REAR, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE, GA5072085	1
13+14	GA5072605	SHAFT SEALS, CARBON CERAMIC, PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
15	GA5072610	IMPELLER, HIGH VOLUME, PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
23	GA5072620	DRAIN PLUG, PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
24	GA5072625	FILLER PLUG, PUMP, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1
42	GA5072630	PUMP CASING, FRONT, POLY 3" BSP, TRANSFER, VITON, HYDRAULIC DRIVE	1

### NOTE:

- GA5072600 - SEAL CONVERSION KIT INCLUDES PART NUMBERS: 6, 7, 8, 10 (X5), 11, 13, 14, 18, 19 (X2), 20, 22, 25, 27, 30 (X3), 46.
- GA5072075 - SEAL KIT, PUMP, INCLUDES PART NUMBERS: 7, 8, 10 (X5), 16, 18, 19 (X2), 22 (X2), 25, 27, 30 (X3).

## Hydraulic Fill Pump Hoses & Fittings

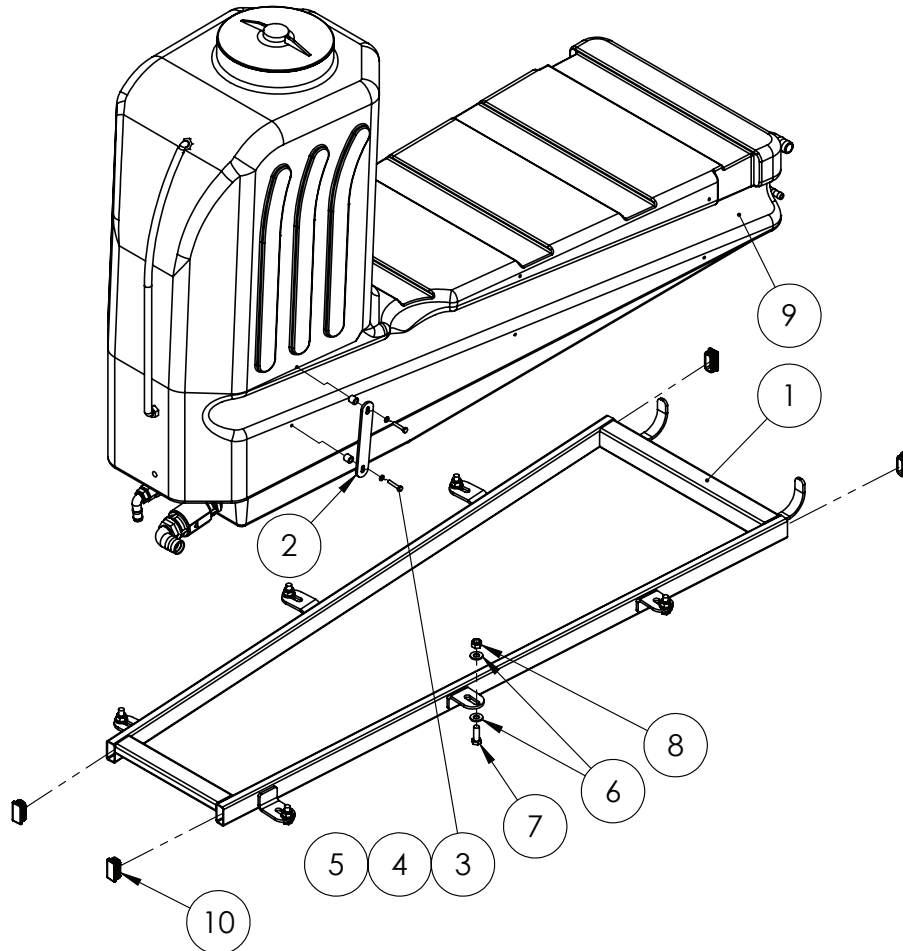


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5067911	HYDRAULIC HOSE ASSEMBLY, PUMP TO TAP	1
2	GA5067924	HOSE ASSEMBLY, FILL PUMP TO TAP 360MM	1
3	GA5067910	HYDRAULIC HOSE ASSEMBLY, SPOOL TO PUMP A (T)	1
4	GA5067903	HYDRAULIC HOSE ASSEMBLY, SPOOL TO PUMP	1
5	GA3500223	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPT MALE	1
6	GA5007060	VALVE, CHECK, HYDRAULIC, 1/2 BSPP FEMALE INLET & OUTLET, 45L/MIN FLOW, MAXIMUM 320BAR	1
7	GA3500333	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
8	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
9	GA5001741	WASHER 20MM FLAT SS HD	14
10	GA3500323	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP MALE O-RING	2
11	GA5000835	VALVE, BALL, HYDRAULIC, 1/2" FEMALE THREAD INLET / OUTLET	1

## Chapter 3

### FLUSH TANK

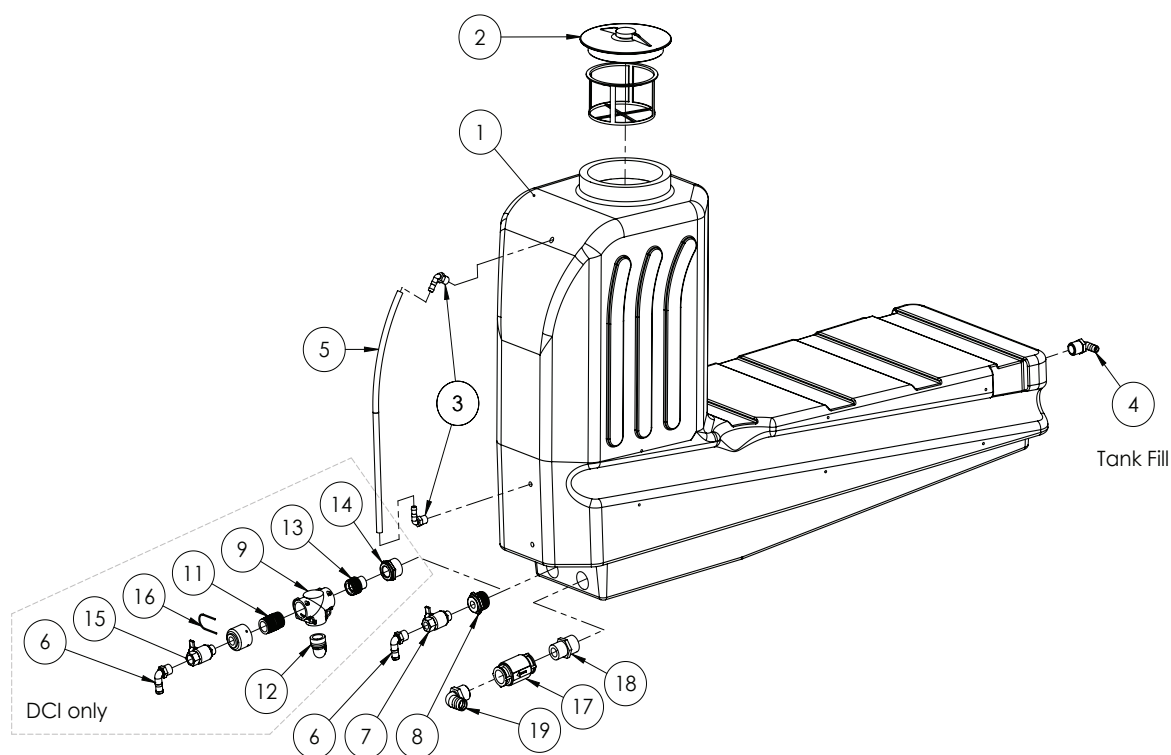
#### 400L Flush Tank Frame



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654320	RINSE TANK FRAME ADVANCE	1
2	F70681A	HOSE STRAP FOR BELLY TANK	2
3	GA5011405	BOLT M6 X 35 ZP GR8.8	4
4	GA5004437	WASHER 6MM FLAT SS	4
5	GA4552075	CRUSH TUBE, 10.2 ID X 15 OD X 15MM LONG	4
6	GA5000577	WASHER 12MM FLAT SS HD	12
7	GA5000311	SET SCREW, M12 X 35, ZP GR 8.8	6
8	GA5012461	NUT M12 NYLOC ZP	6
9	*	400L FLUSH TANK ASSEMBLY	1
10	GA5003733	TUBE INSERT 50 X 25MM RECTANGULAR 0.83	4

\* Sub-assembly on following pages

## 400L Flush Tank Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018367	TANK 400L UNDERBELLY, BARE	1
2	GA5076882	LID, TANK, 255 MM DIAMETER, WITH BREATHER	1
3	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	2
4	GA5077719	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE THREAD X 3/4" HOSE	1
5	GA2000209	12MM SIGHT TUBE - CUT 660MM	1
6	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	2
7	GA5018315	VALVE, BALL, 20MM, 3/4" MALE, FEMALE, BLACK BUTTERFLY HANDLE, BRASS	1
8	GA5078017	REDUCING BUSH, 1 1/2" MALE THREAD X 3/4" FEMALE THREAD	1
9	GA5065555	TEE, AS40 FEMALE, NO M8 INSERTS	1
10	GA4582410	CAP ALTEK AS40 WITH 3/4" BSPP FEMALE THREAD	1
11	GA5065735	PLUG IN HOSE TAIL AS40/AS40	1
12	GA5065620	PLUG IN HOSE TAIL AS40/33/90 DEGREE	1
13	GA5065600	PLUMBING ADAPTOR, AS40 MALE X 1" MALE THREAD	1
14	GA5078018	REDUCING BUSH, 1 1/2" MALE THREAD X 1" FEMALE THREAD	1

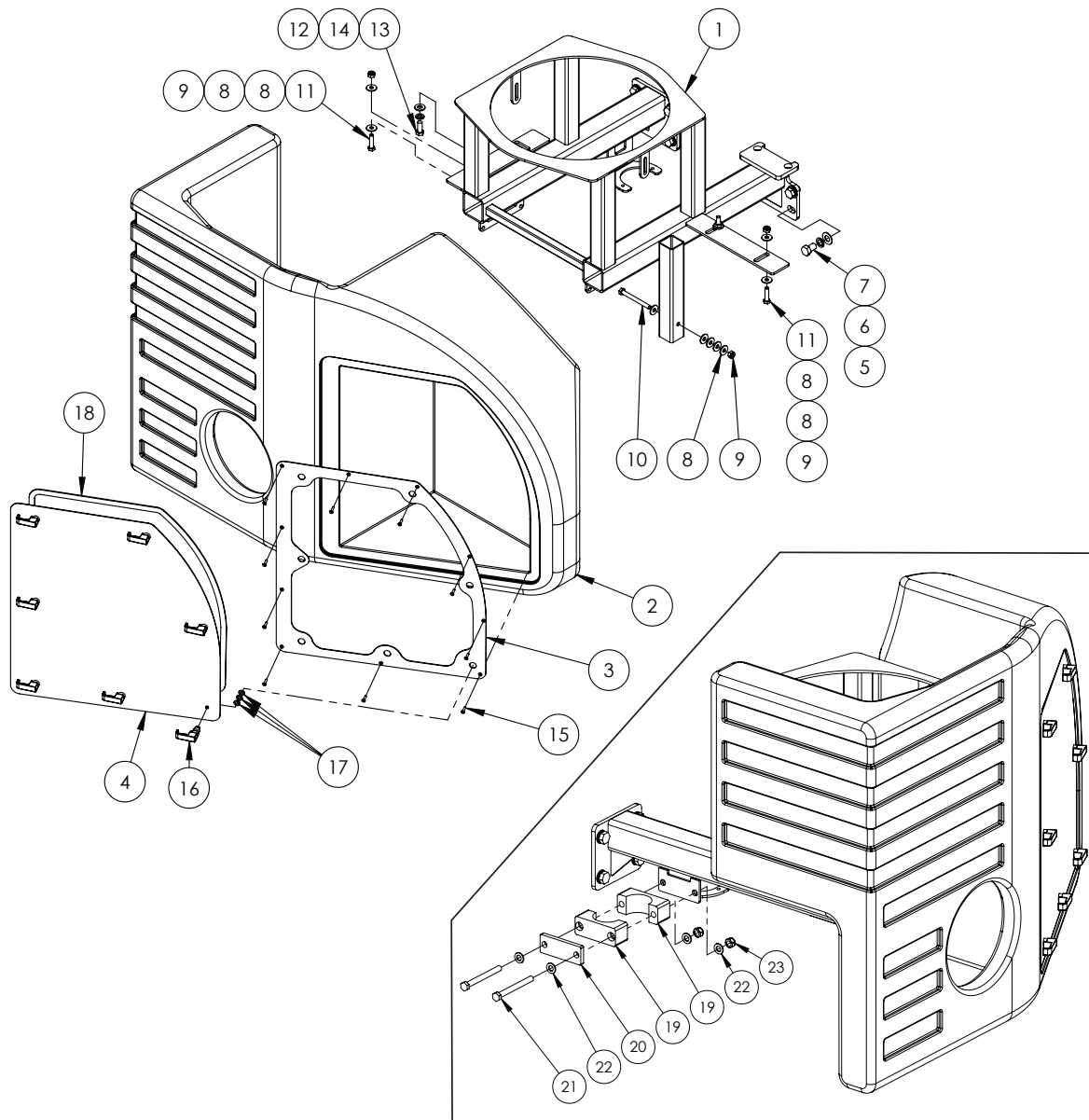
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
15	GA5018315	VALVE, BALL, 20MM, 3/4" MALE, FEMALE, BLACK BUTTERFLY HANDLE, BRASS	1
16	GA5065690	SAFETY PIN AS40	3
17	GA5017361	VALVE NON-RETURN 1 1/4"	1
18	GA5078093	REDUCING NIPPLE, 1 1/2" MALE THREAD X 1 1/4" MALE THREAD	1
19	GA5077730	HOSE BARB, ELBOW, 90 DEGREE, 1 1/4" MALE THREAD X 1 1/4" HOSE	1

# Chapter 4

## RIGHT HAND POD

### RH POD



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654410	POD FRAME ADVANCE RIGHT HAND	1
2	GA5018375	RIGHT HAND SIDE MODULE	1
3	GA4522585	RHS POD COVER DOOR INNER	1
4	GA4522580	RHS POD COVER DOOR OUTER	1

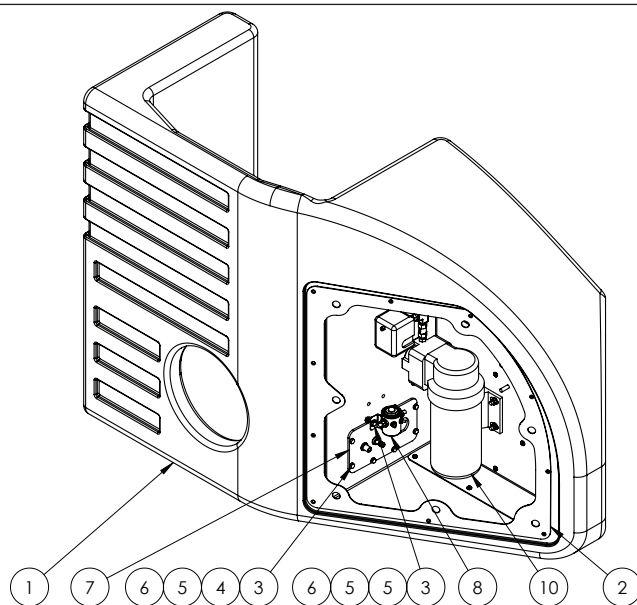
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## RH POD

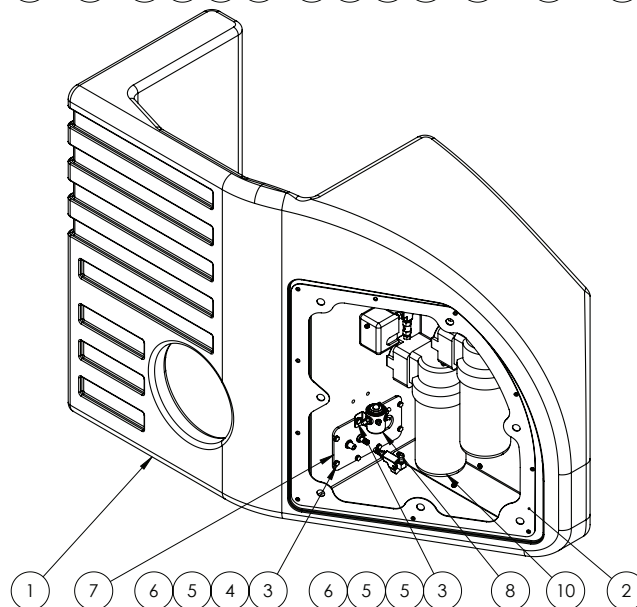
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	GA5001043	WASHER 16MM FLAT SS HD	8
6	GA5000961	WASHER 16MM SPRING ZP	8
7	GA5000903	BOLT M16 X 25 ZP GR8.8	8
8	GA5002627	WASHER, 3/8" ID X 1 1/8" OD, HIGH TENSILE	11
9	GA5000141	NUT M10 NYLOC ZP	4
10	GA5011139	BOLT M10 X 100 ZP GR4.6	1
11	GA5006071	BOLT M10 X 40 ZP GR10.9	3
12	GA5000577	WASHER 12MM FLAT SS HD	1
13	GA5000307	SHCS M12 X 30 ZP GR12.9	1
14	GA5000575	WASHER 12MM SPRING SS	1
15	GA5014819	SCREW 10G X 1" SELF TAPPER SS	10
16	GA5066600	RAWL ACTION LATCH SUIT ADVANCE POD DOOR	7
17	GA5003643	WASHER 8MM FLAT SS HD	21
18	GA5016473	TAPE PM FOAM 6.4 X 18 L/DENSITY - CUT 2200 MM LONG	1
19	GA5070355	SINGLE CLAMP JAW 65 MM DIAMETER	2
20	GA5070360	SINGLE CLAMP TOP PLATE	1
21	GA5000265	BOLT M12 X 120 GR8.8 ZP	2
22	GA5000577	WASHER 12MM FLAT SS HD	4
23	GA5012461	NUT M12 NYLOC ZP	2

## Air Compressors

SINGLE  
COMPRESSOR  
VERSION



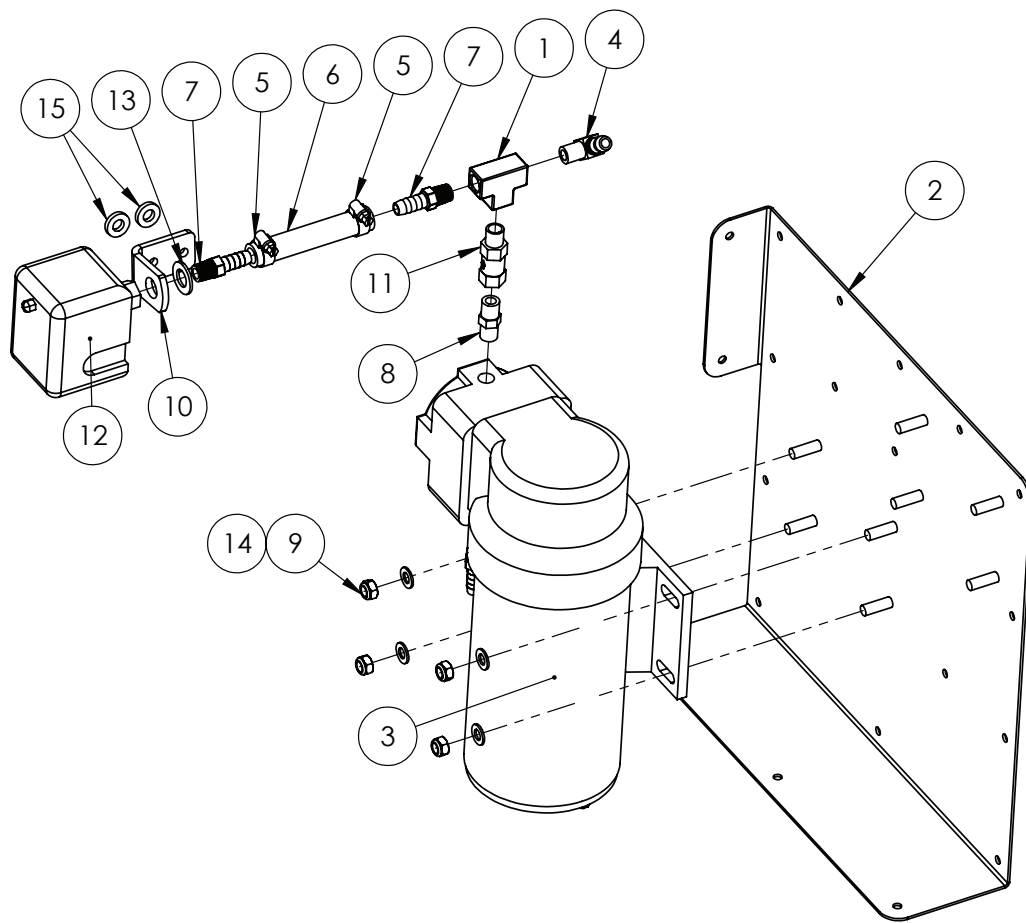
DUAL  
COMPRESSOR  
VERSION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018375	RIGHTHAND SIDE MODULE	1
2	GA4522585	RHS POD COVER DOOR INNER	1
3	GA5004073	BOLT M6 X 25 GR8.8 ZP	8
4	GA5004437	WASHER 6MM FLAT SS	6
5	GA5017643	WASHER 1/4" ID X 5/8" OD X 18G FLAT SS	10
6	GA5048115	NUT M6 NYLOC ZP	8
7	*	PLUMBING MANIFOLD	1
8	GA5063602	LOOM HIGH CURRENT SOLENOID TO SUIT RAPID FIRE COMPRESSOR	1
9	GA5000527	SCREW PAN HEAD 12G X 25MM SS	20
10	*	COMPRESSOR ASSEMBLY, SINGLE	1
	*	COMPRESSOR ASSEMBLY, DUAL	1

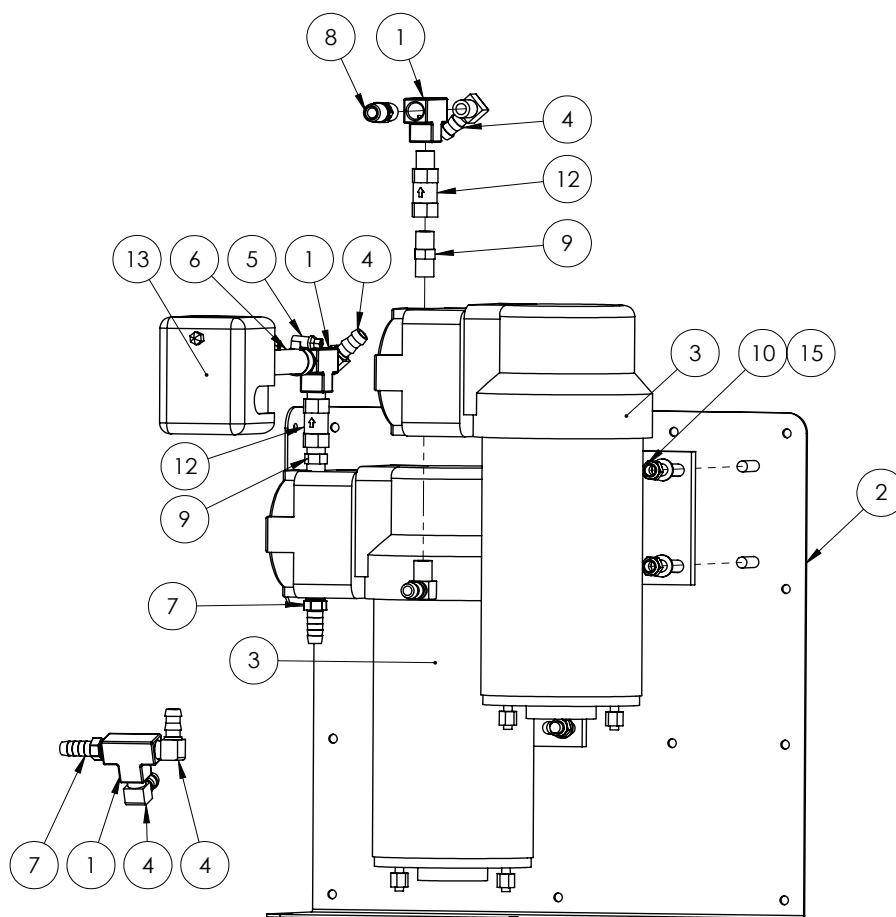


## Air Compressor Assembly - Single



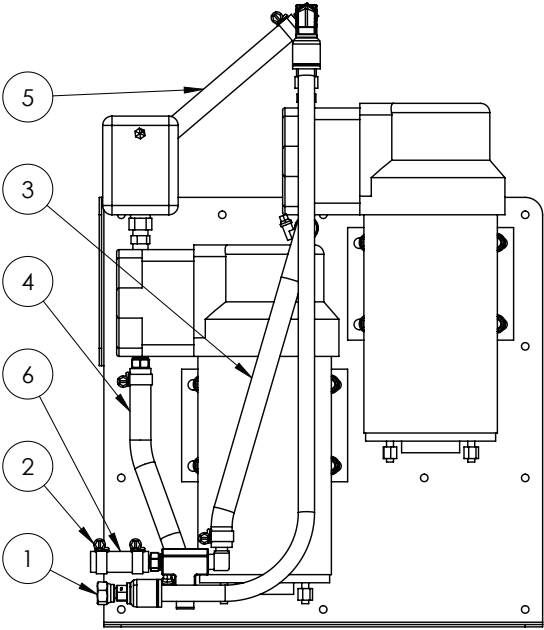
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5048300	1/4 FEMALE BRASS TEE	1
2	GA4602795	COMPRESSOR MOUNT BRACKET, SINGLE AND DUAL RAPID FIRE, PRAIRIE PRO MY19	1
3	GA5053340	COMPRESSOR RAPID FIRE	1
4	GA5049290	ELBOW 1/4" MALE THREAD X 3/8" BARB BRASS	1
5	GA5004865	HOSE CLAMP 8-16MM	2
6	GA5051025	HOSE HIGH TEMP 100MM	1
7	GA5050725	HOSETAIL BRASS P3 1/4 THREAD X 3/8 BARB	3
8	GA5050285	NIPPLE, 1/4 MALE THREAD X 1/4 MALE THREAD, BRASS	1
9	GA5004917	NUT M8 NYLOC ZP	4
10	GA4406555	PLATE, BRAKE LINE MOUNT BRACKET, 4WD FRONT DROP LEG, G6 MY20	1
11	GA5014796	SC3 SINGLE CHECK VALVE 1/4 M/F	1
12	GA5016221	SWITCH DIFFERENTIAL PRESS. T/S AIR BAG	1
13	GA5017655	WASHER 1/2 FLAT SS	1
14	GA5003643	WASHER 8MM FLAT SS HD	4
15	GA5055245	WASHER, NOZZLE CAP SEAL, RUBBER, 19 OD X 9 ID, SUIT TEE JET NOZZLE, REPLACES CPI9438-EPR	2

## Air Compressor Assembly - Dual



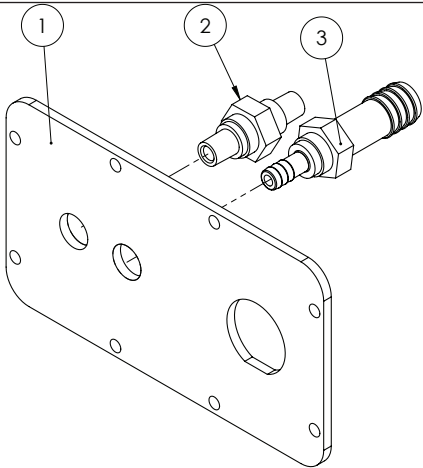
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5048300	1/4 FEMALE BRASS TEE	3
2	GA4602795	COMPRESSOR MOUNT BRACKET, SINGLE AND DUAL RAPID FIRE, PRAIRIE PRO MY19	1
3	GA5053340	COMPRESSOR RAPID FIRE	2
4	GA5049290	ELBOW 1/4" MALE THREAD X 3/8" BARB BRASS	5
5	GA5004865	HOSE CLAMP 8-16MM	2
6	GA5051025	HOSE HIGH TEMP 100MM	1
7	GA5050725	HOSETAIL BRASS P3 1/4 THREAD X 3/8 BARB	4
8	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPT MALE	1
9	GA5050285	NIPPLE, 1/4 MALE THREAD X 1/4 MALE THREAD, BRASS	2
10	GA5004917	NUT M8 NYLOC ZP	8
11	GA4406555	PLATE, BRAKE LINE MOUNT BRACKET, 4WD FRONT DROP LEG, G6 MY20	1
12	GA5014796	SC3 SINGLE CHECK VALVE 1/4 M/F	2
13	GA5016221	SWITCH DIFFERENTIAL PRESS. T/S AIR BAG	1
14	GA5017655	WASHER 1/2 FLAT SS	1
15	GA5003643	WASHER 8MM FLAT SS HD	8
16	GA5055245	WASHER, NOZZLE CAP SEAL, RUBBER, 19 OD X 9 ID, SUIT TEE JET NOZZLE, REPLACES CPI9438-EPR	2

# Air Compressor Assembly - Dual - Hoses



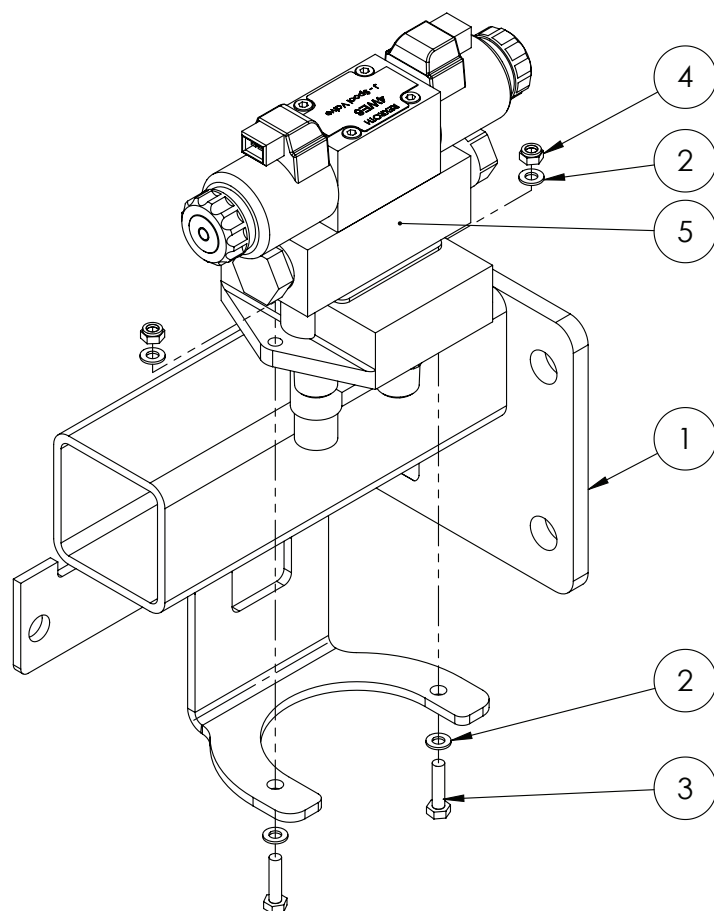
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500828	PNEUMATIC HOSE, DUAL COMPRESSOR TO POD BULKHEAD	1
2	GA5004865	HOSE CLAMP 8-16MM	8
3	GA5051025	HOSE HIGH TEMP 320MM	1
4	GA5051025	HOSE HIGH TEMP 190MM	1
5	GA5051025	HOSE HIGH TEMP 170MM	1
6	GA5051025	HOSE HIGH TEMP 50MM	1

## Plumbing Manifold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4524715	PLUMBING MANIFOLD PLATE EVO AIR BAG ONLY	1
2	GA4582465	1/4" BSPT NIPPLE, SS, SUIT RH POD MANIFOLD	1
3	MACH0129	BARB 3/4" TO 3/8"	1

## Fill Pump Spool



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4654410	POD FRAME ADVANCE RH	1
2	GA5004437	WASHER 6MM FLAT SS	4
3	GA5004073	BOLT M6 X 25 ZP GR8.8	2
4	GA5048115	NUT M6 NYLOC ZP	2
5	^	FILL PUMP HYDRAULIC MANIFOLD ASSEMBLY	1

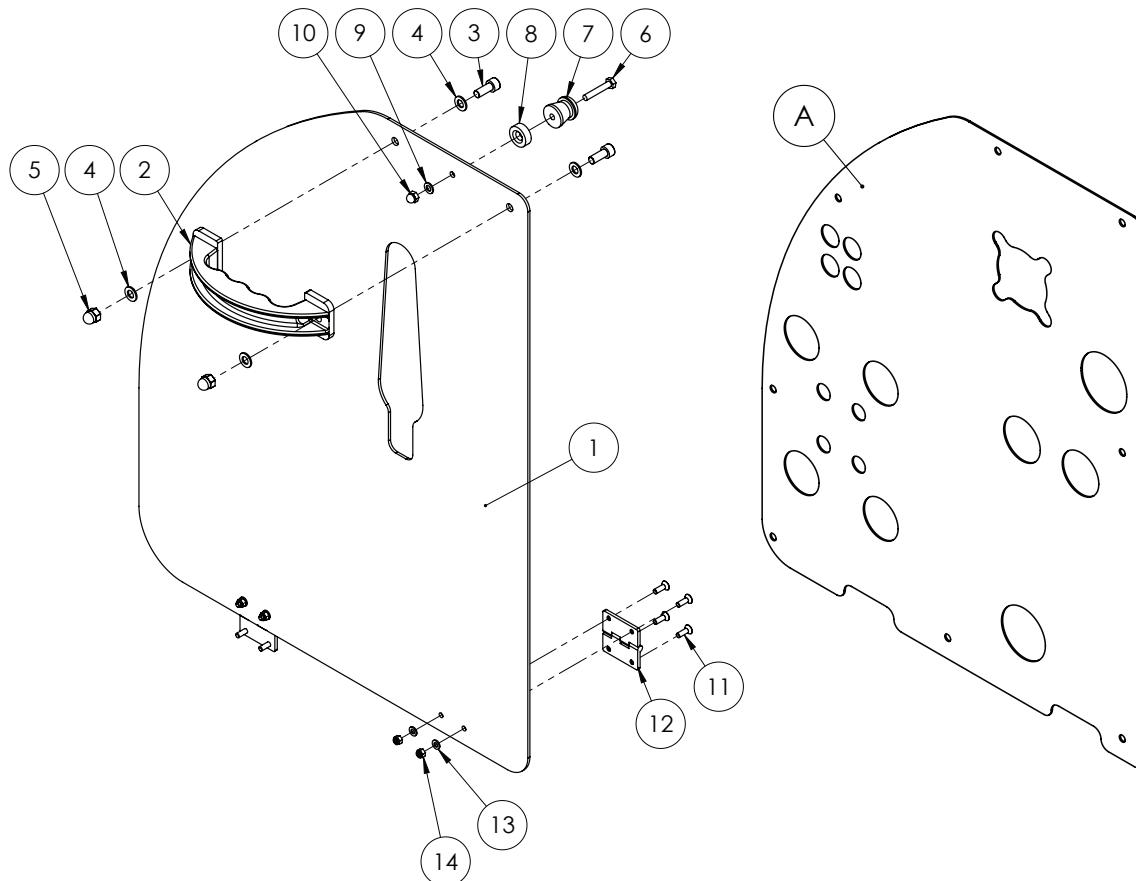
^ See Chapter 18 'Hydraulics' for sub-assembly.



# Chapter 5

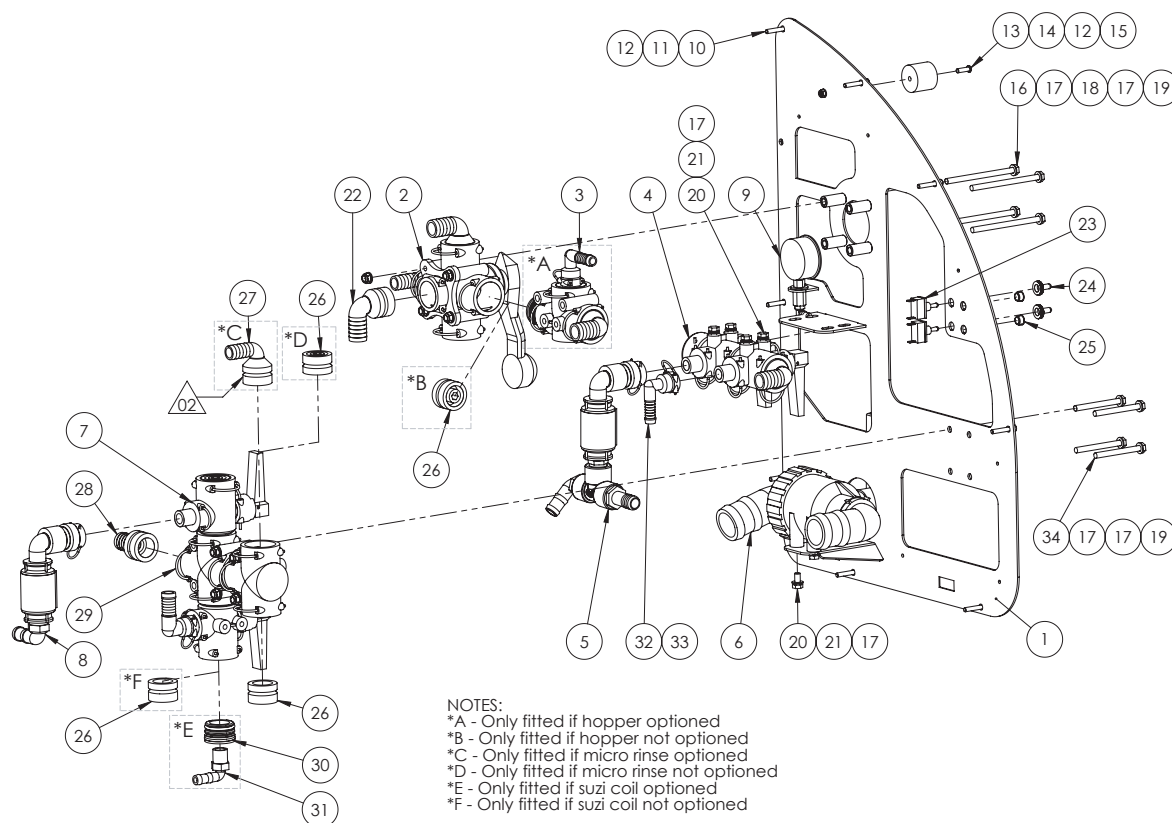
## LEFT HAND POD

### LH POD - Control Panel Cover



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA4523635	COVER PLATE	1
1	GA4523640	HINGE COVER, FILL STATION	1
2	GA5009841	HANDLE, BLACK, HEAVY DUTY, POLYETHYLENE	1
3	GA5004707	SHCS M8 X 20 GR12.9 ZP	2
4	GA5003643	WASHER 8MM FLAT SS HD	4
5	GA5011457	M8 DOME NUT	2
6	GA5011405	BOLT M6 X 35 GR8.8 ZP	1
7	GA5011607	DOOR HOLDER, MALE, RUBBER, BLACK	1
8	GA4572010	AIR CHEMSAVER WASHER	1
9	GA5004437	WASHER 6MM FLAT SS	1
10	GA5048465	M6 DOME NUT ZP	1
11	GA5051230	CSCS M5 X 16 SS A2-70	8
12	GA5020415	HINGE CABIN SS 50 X 52 X 3 MM	2
13	GA5003983	WASHER 5MM FLAT SS	4
14	GA5003974	NUT M5 NYLOC ZP	4

## LH POD Assembly - Control Panel



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658165	LHS POD DOOR SKIN	1
2	*	4 WAY VALVE ASSEMBLY	1
3	*	HOPPER CONNECTION ASSEMBLY	1
4	*	PRESSURE CONTROL ASSEMBLY	1
5	*	PRESSURE DELIVERY CHECK VALVE ASSEMBLY	1
6	*	FRESH WATER FILL TAP ASSEMBLY	1
7	*	FILL MANIFOLD ASSEMBLY	1
8	*	FLUSH TANK CHECK VALVE ASSEMBLY	1
9	*	PRESSURE GAUGE ASSEMBLY	1
10	GA5011425	SHCS M6 X 35 SS A2-70	9
11	GA5004447	WASHER 6MM SPRING SS	8
12	GA5004437	WASHER 6MM FLAT SS	10
13	GA5004053	BHCS M6 X 20 SS A2-70	1
14	GA5008629	DOOR HOLDER, FEMALE, RUBBER, BLACK	1
15	GA5048115	NUT M6 NYLOC ZP	1
16	GA5011501	BOLT M8 X 120 GR8.8 ZP	4
17	GA5003643	WASHER 8MM FLAT SS HD	23
18	GA4552135	SPACER FOR ALTEK ROTARY VALVE	4
19	GA5052590	NUT M8 NYLOC SS	8
20	GA5011465	BOLT M8 X 16 GR8.8 ZP	7

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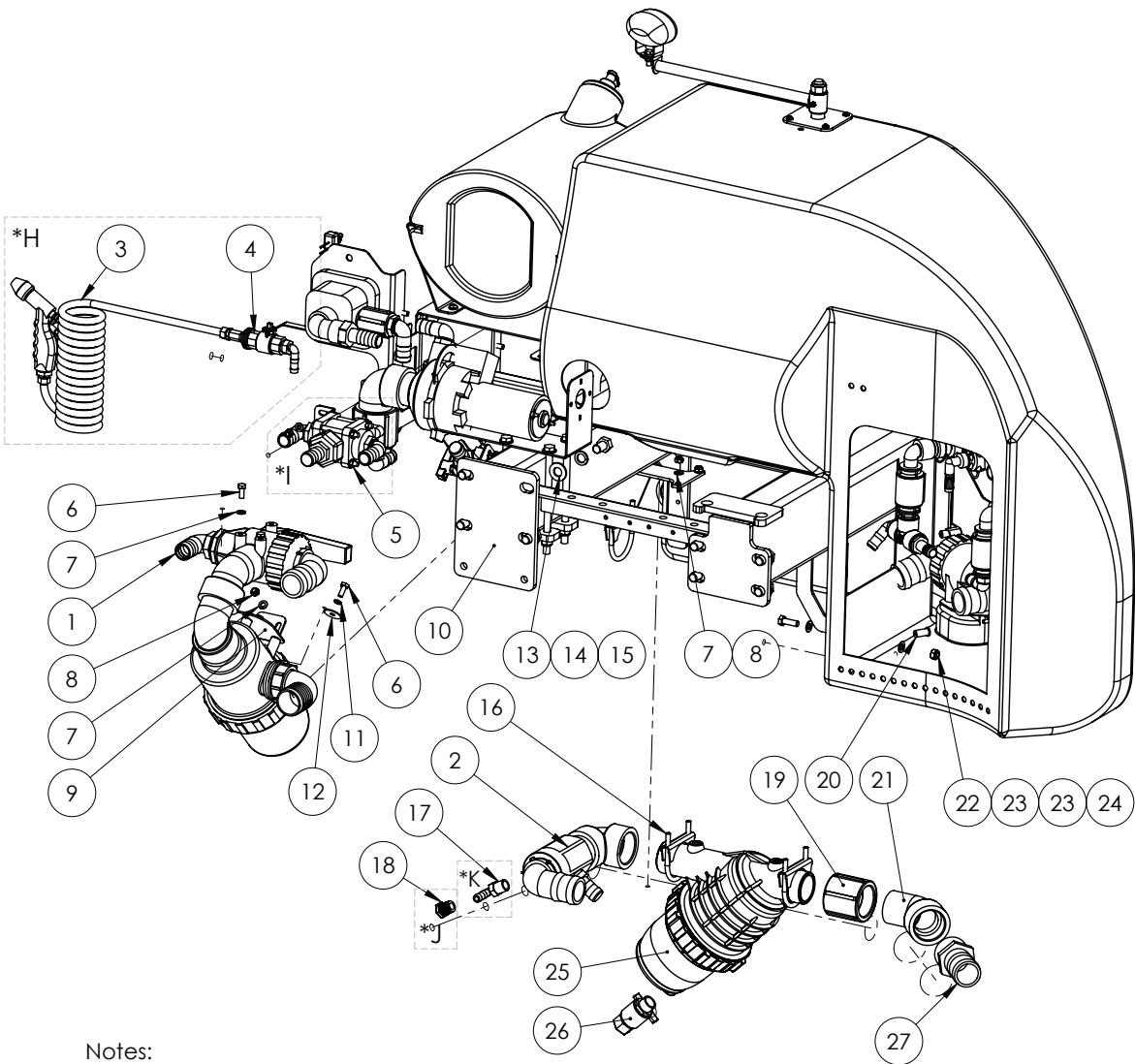
## LH POD Assembly - Control Panel

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
21	GA5004919	WASHER 8MM SPRING SS	7
22	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM, ALTEK	1
23	GA5016749	SWITCH, TOGGLE, ON / OFF, WATER PROOF, PVC COATED, 25 AMP	2
24	GA5012175	COVER, TOGGLE SWITCH, WATERPROOF, NARVA	2
25	GA5048780	DOME PLUG 12MM	2
26	GA5065680	PLUG, AS40 MALE, ALTEK	4
27	GA5065610	HOSE BARB, ELBOW, 90 DEGREE, AS40 X 20MM HOSE, ALTEK	1
28	GA5065580	PLUG IN HOSE TAIL AS40/25	1
29	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS, ALTEK	1
30	GA4582345	DUMMY PLUG AS40 G 1/2 FEMALE (45MM DELRON)	1
31	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2 MALE THREAD X 1/2 HOSE, BANJO	1
32	GA5065750	HOSE BARB, ELBOW, 90 DEGREE, AS24 FEMALE X 15MM HOSE, ALTEK	1
33	GA5065695	SAFETY PIN AS24	1
34	GA5004749	BOLT M8 X 80 GR8.8 ZP	4

\* Sub-assembly on following pages



# LH POD Assembly - Filters



Notes:  
 \*H - Only fitted if suze coil optioned  
 \*I - Only fitted if chemical pump optioned  
 \*J - Only fitted if hopper not optioned  
 \*K - Only fitted if hopper optioned

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	SUCTION FILTER ASSEMBLY	1
2	*	FILL MANIFOLD ASSEMBLY	1
3	*	WASH DOWN GUN ASSEMBLY	1
4	*	WASH DOWN GUN VALVE ASSEMBLY	1
5	*	CHEMICAL PUMP / VENTURI, BALL VALVE ASSEMBLY	1
6	GA5004085	BOLT M8 X 20 GR8.8 ZP	5
7	GA5003643	WASHER 8MM FLAT SS HD	58
8	GA5052590	NUT M8 NYLOC SS	24
9	GA4523840	FILTER MOUNT PLATE	1
10	GA4658155	SUPPORT FRAME, LEFT HAND SIDE	1
11	GA5004919	WASHER 8MM SPRING SS	15

\* Sub-assembly on following pages

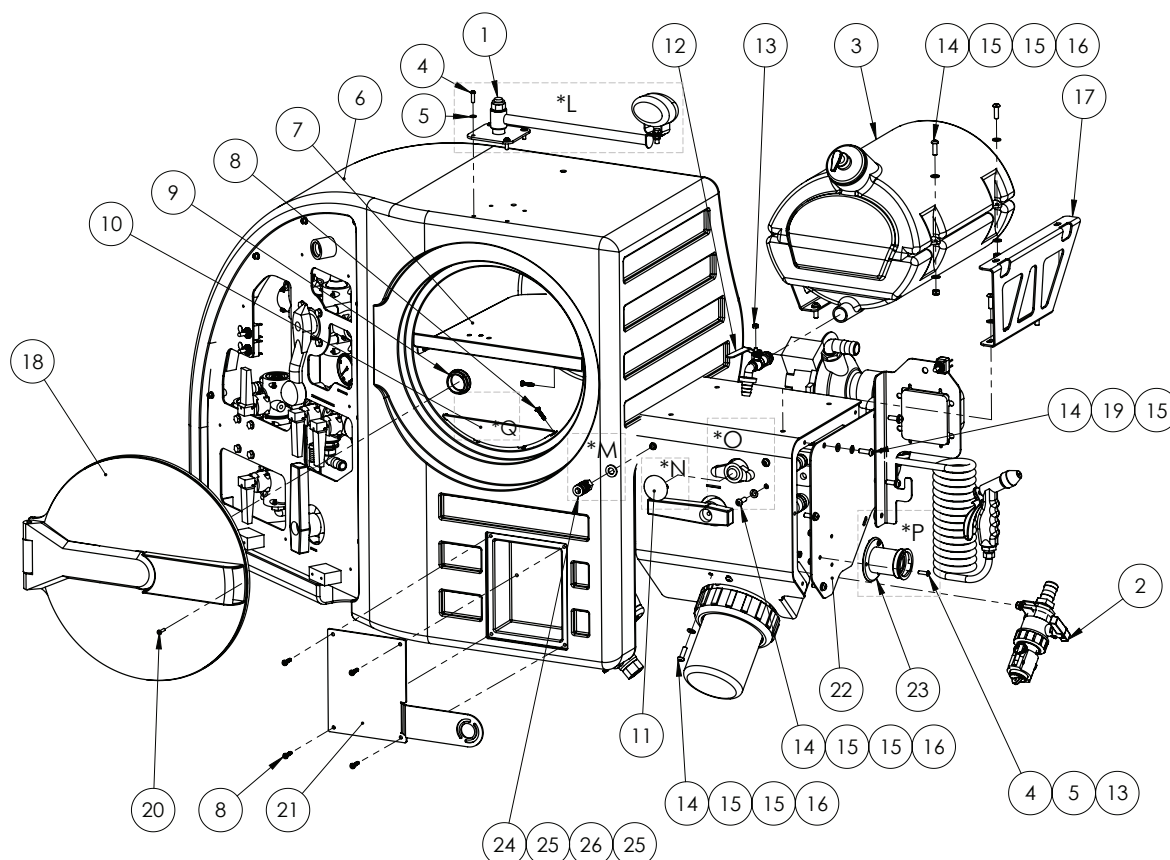
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## LH POD Assembly - Filters

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	GA5017645	WASHER 1/4" ID X 1 1/4" OD X 16G SS	3
13	GA5001043	WASHER 16MM FLAT SS HD	8
14	GA5000961	WASHER 16MM SPRING ZP	8
15	GA5000903	BOLT M16 X 25 GR8.8 ZP	8
16	GA5006689	CLAMP EXHAUST 2 5/8" (C12)	3
17	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE, BANJO	2
18	GA5077943	PLUG, 1/2" MALE THREAD, BANJO, PLUG050	1
19	GA5077641	COUPLING, SOCKET, 2" FEMALE THREAD, BANJO	1
20	GA5020855	RAWL NUT, M6 X 25 LONG	9
21	GA5078141	STREET ELBOW, 45 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD, BANJO	1
22	GA5000141	NUT M10 NYLOC ZP	4
23	GA5000117	WASHER 10MM FLAT SS HD	5
24	GA5065455	BOLT M10 X 30 GR8.8 ZP	4
25	GA2000126	FILTER, LINE, 2" INLET AND OUTLET, 32 MESH, OPEN DRAIN PORT, ARAG	1
26	GA5018315	VALVE, BALL, 20MM, 3/4" MALE, FEMALE, BLACK BUTTERFLY HANDLE, BRASS	1

\* Sub-assembly on following pages

## LH POD Assembly - Accessories



### Notes:

- \*L - Only fitted if road pack optioned
- \*M - Only fitted if airbags optioned
- \*N - Only fitted if chemical pump not optioned
- \*O - Only fitted if chemical pump optioned
- \*P - Only fitted if micromatic rinse optioned
- \*Q - This is to be glued into the locker door for air seal

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	^	POD LIGHT ASSEMBLY	1
2	*	CHEM PROBE ASSEMBLY	1
3	GA5075110	WATER TANK, 30L, BLACK PLASTIC, WITH SOAP DISPENSER, USED FOR HAND WASH	1
	GA5051275	SOAP DISPENSER, SUIT HAND WASH TANK GA5075110	-
4	GA5004053	BHCS M6 X 20 SS A2-70	8
5	GA5004437	WASHER 6MM FLAT SS	21
6	GA5018373	LEFT HAND SIDE MODULE	1
7	GA4534190	LOCKER MIDDLE SHELF	1
8	GA5000527	SCREW PAN HEAD 12G X 25MM SS	12
9	GA5003875	END CAP, 50 MM ROUND BLACK, 2.5 - 4.5MM WALL	1
10	GA4534185	LOCKER BOTTOM LIP	1
11	GA5054755	INSERT, HOLE COVER 46MM DIA BLACK	1
12	GA5070735	TAP 3/4" BSP WITH HOSE BARB SUIT HAND WASH BOTTLE	1

\* Sub-assembly on following pages

^ See Chapter 15 'Electrics' for sub-assembly

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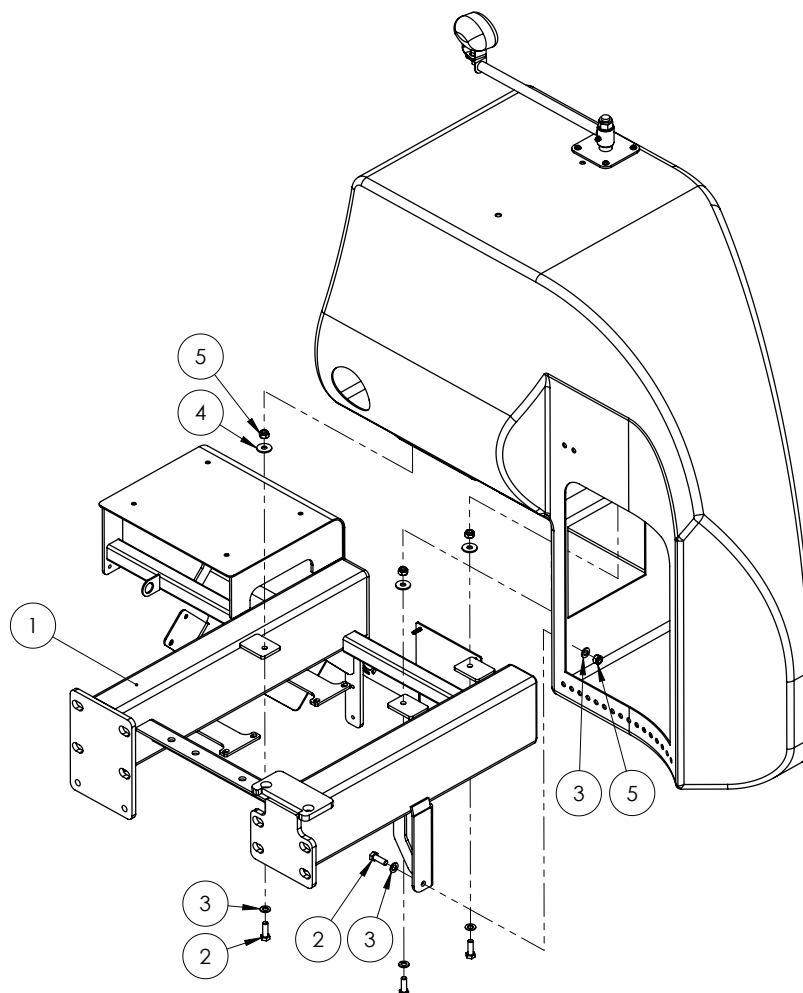
## LH POD Assembly - Accessories

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
13	GA5048115	NUT M6 NYLOC ZP	9
14	GA5011473	BHCS M8 X 25 SS A2-70	17
15	GA5003643	WASHER 8MM FLAT SS HD	58
16	GA5052590	NUT M8 NYLOC SS	24
17	GA4523740	TANK MOUNT BRACKET 30L HAND WASH	2
18	GA5076886	LID, HINGED, BLACK PLASTIC, SUIT LEFT HAND SIDE POD DOOR, 462 MM	1
19	GA5004919	WASHER 8MM SPRING SS	15
20	GA5014819	SCREW SELF TAPPER 10G X 1" SS	8
21	F70651A	COVER PLATE FULL FACE	1
22	GA4523755	PRAIRIE SUCTION POD FRAME SIDE COVER PLATE	1
23	GA5018800	RINSING SOCKET, 3 PIN, MICROMATIC / ENVIRO DRUM COUPLING	1
24	200S	COUPLING, AIR, 1/4" BSPP FEMALE X FEMALE, 200S	1
25	GA5000577	WASHER 12MM FLAT SS HD	10
26	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPT MALE	1

\* Sub-assembly on following pages

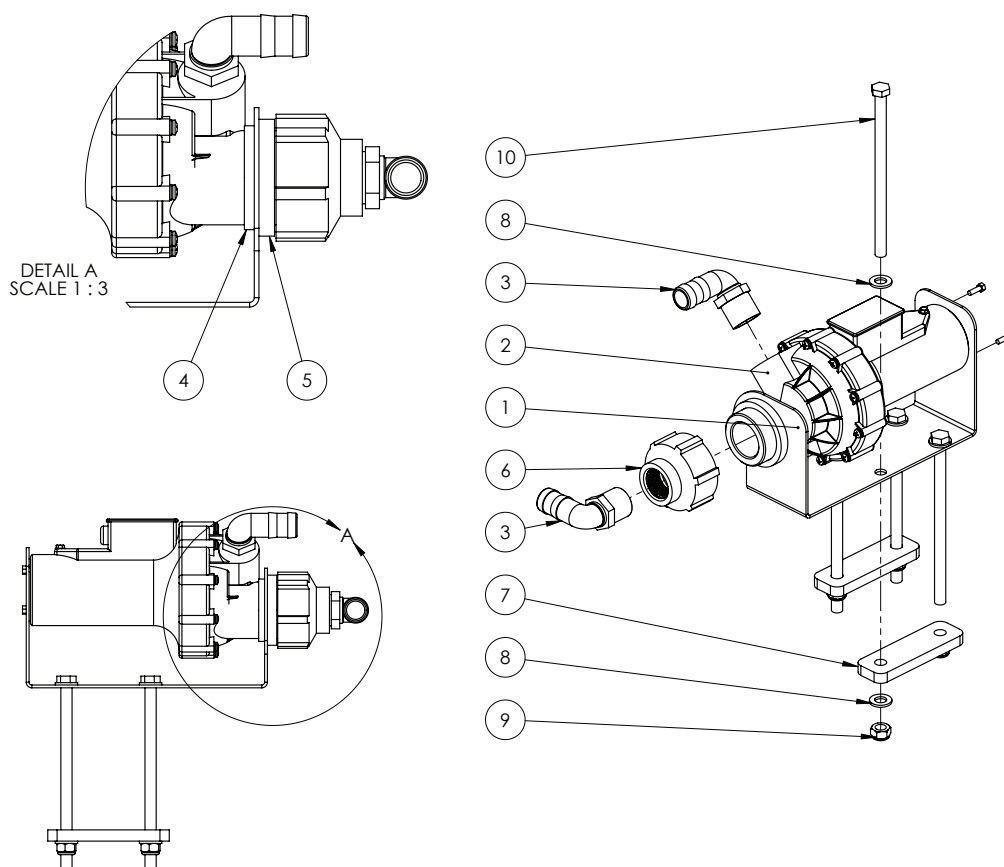
^ See Chapter 15 'Electrics' for sub-assembly

## LH POD Assembly - Frame & Mounting



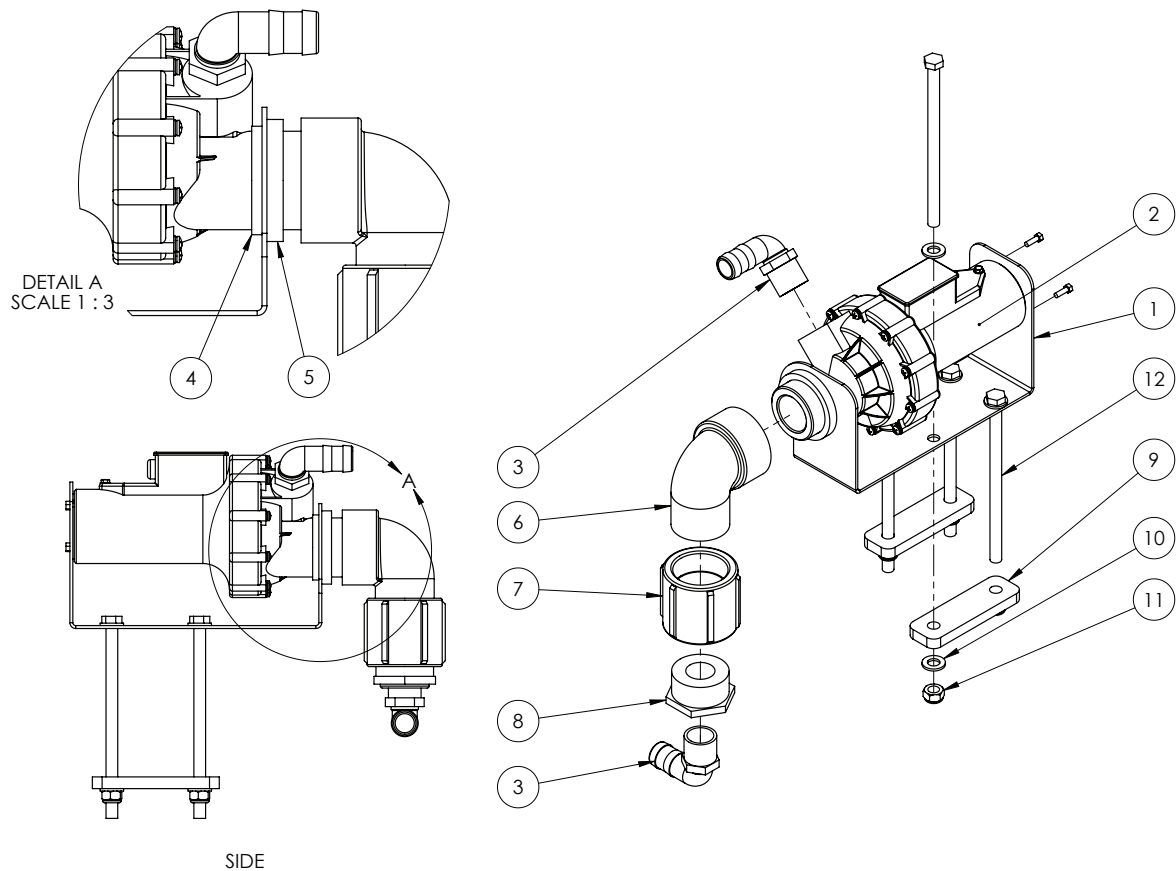
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658155	SUPPORT FRAME, LEFT HAND SIDE	1
2	GA5065455	BOLT M10 X 30 GR8.8 ZP	4
3	GA5000117	WASHER 10MM FLAT SS HD	5
4	GA5002627	WASHER 3/8" ID X 1 1/8" OD HIGH TENSILE	3
5	GA5000141	NUT M10 NYLOC ZP	4

## Chemical Pump - Standard



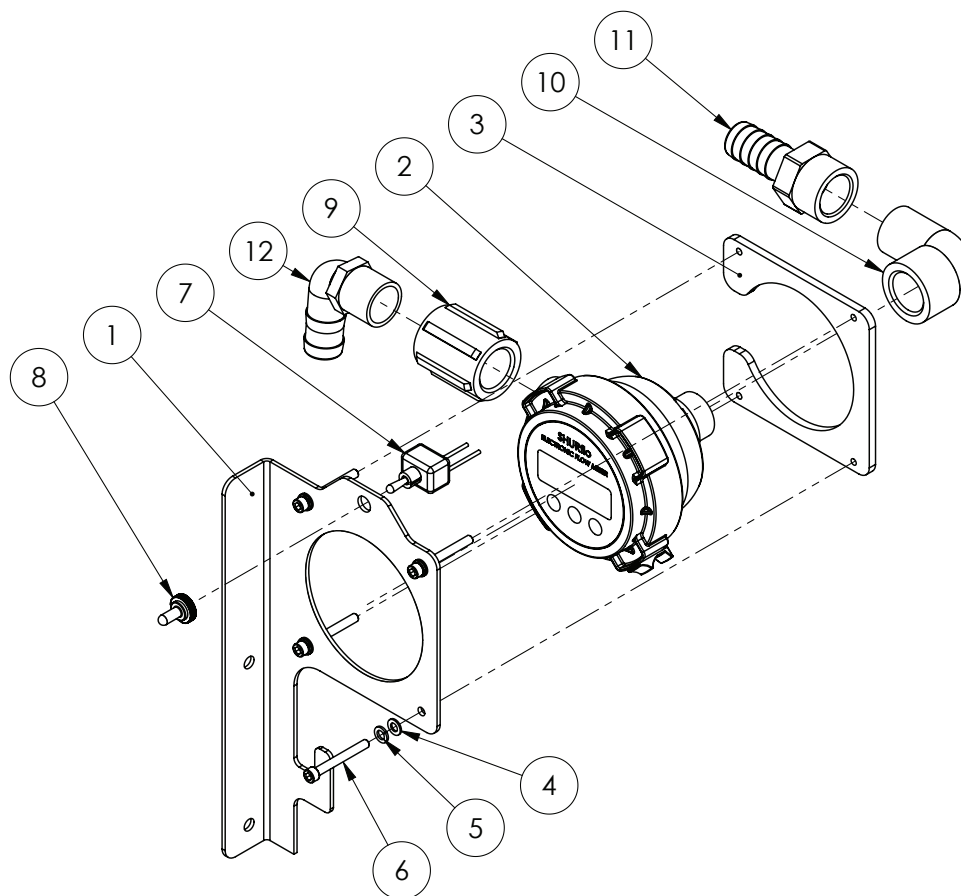
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4508525	PLATE, PUMP MOUNT	1
2	GA2000030	PUMP, DIAPHRAGM, CHEMICAL TRANSFER 12V	1
3	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	2
4	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING	1
5	GA4552870	SPACER, POD FILL POINT FITTING 6I	1
6	GA2000032	REDUCING COUPLING, 2" FEMALE NPT TO 1" FEMALE NPT	1
7	F70107A	PLATE, CLAMP, 130 LONG X 40 WIDE X 12 MM THICK	2
8	GA5000577	WASHER 12MM FLAT SS HD	8
9	GA5012461	NUT M12 NYLOC ZP	4
10	GA5011223	BOLT M12 X 200 GR 8.8 ZP	4

## Chemical Pump - Flow Meter Optional



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4508525	PLATE, PUMP MOUNT	1
2	GA2000030	PUMP, DIAPHRAGM, CHEMICAL TRANSFER 12V	1
3	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	2
4	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING	1
5	GA4552870	SPACER, POD FILL POINT FITTING 6I	1
6	GA5078142	STREET ELBOW, 90 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD	1
7	GA5077641	COUPLING, SOCKET, 2" FEMALE THREAD	1
8	GA5078021	REDUCING BUSH, 2" MALE THREAD X 1" FEMALE THREAD	1
9	F70107A	PLATE, CLAMP, 130 LONG X 40 WIDE X 12 MM THICK	2
10	GA5000577	WASHER 12MM FLAT SS HD	8
11	GA5012461	NUT M12 NYLOC ZP	4
12	GA5011223	BOLT M12 X 200 GR 8.8 ZP	4

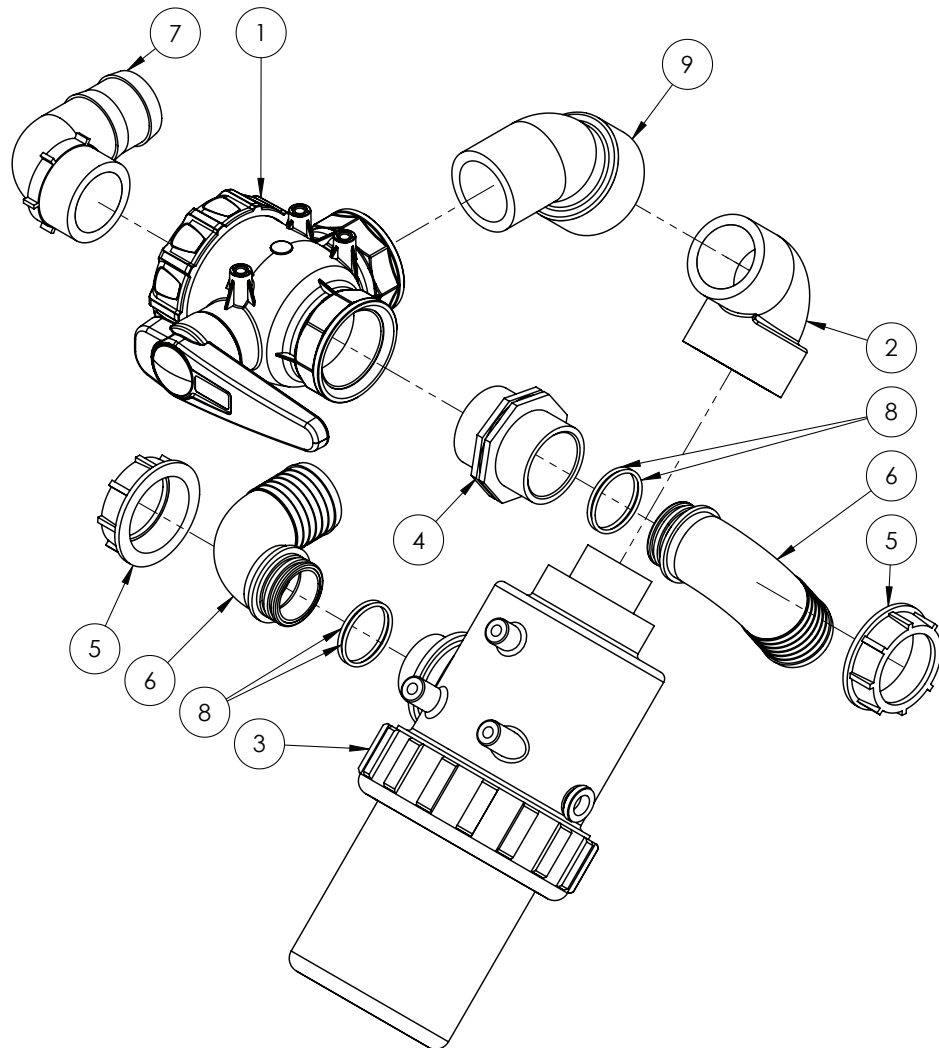
## Chemical Pump - Flow Meter



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4508530	PLATE, MOUNT BRACKET SHURFLO ELECTRONIC FLOW METER FM-1100, PRAIRIE	1
2	GA2000031	FLOW METER, CHEMICAL TRANSFER, 90 DEGREE, SHURFLO	1
3	GA4508535	PLATE, CLAMP BRACKET SHURFLO ELECTRONIC FLOW METER FM-1100, PRAIRIE	1
4	GA5004437	WASHER 6MM FLAT SS	4
5	GA5004447	WASHER 6MM SPRING SS	4
6	GA5011421	SHCS M6 X 50 GR12.9 ZP	4
7	GA5016749	SWITCH, TOGGLE, ON / OFF, WATER PROOF, PVC COATED, 25 AMP	1
8	GA5012175	COVER, TOGGLE SWITCH, WATERPROOF, NARVA	1
9	GA5077638	COUPLING, SOCKET, 1" FEMALE THREAD, BANJO	1
10	GA5078137	STREET ELBOW, 90 DEGREE, 1" MALE X 1" FEMALE, BANJO	1
11	GA5077747	HOSE BARB, STRAIGHT, 1" FEMALE THREAD X 1" HOSE, BANJO	1
12	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1

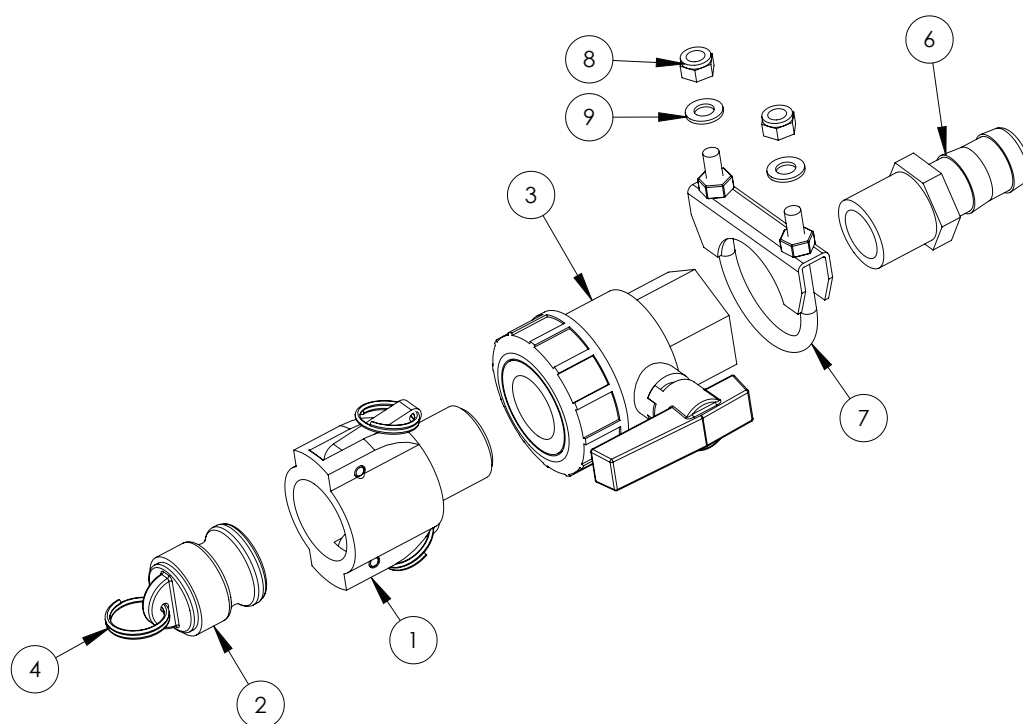


## Suction Filter Assembly - 260 Zeta



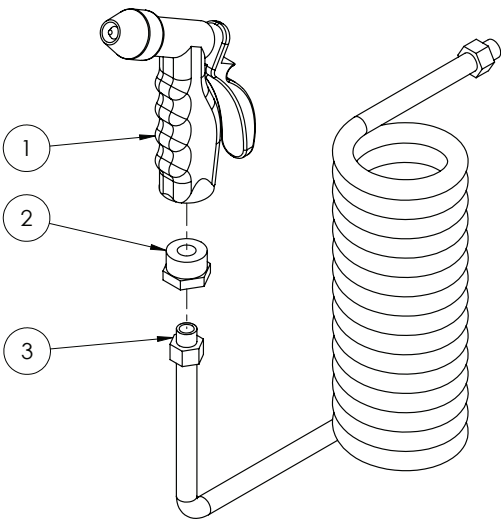
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5076996	HANDLE, RED, SUIT 2" ARAG BALL VALVE	-
1	GA5076987	VALVE, BALL, 3 WAY, 2" FEMALE THREAD INLET & OUTLET	1
2	GA5078142	STREET ELBOW, 90 DEGREE, 2 MALE THREAD X 2 FEMALE THREAD	1
3	GA5076799	FILTER, SUCTION, 3 1/2", 2" BSP MALE INLET AND OUTLET, 32 MESH SCREEN	1
4	GA5078410	PLUMBING FITTING, NIPPLE, 2"	1
5	GA5076605	FLY NUT, 2"	2
6	GA5076262	HOSE BARB, ELBOW, 90 DEGREE, 2" FLY NUT END X 52 MM HOSE	2
7	GA5077740	HOSE BARB, ELBOW, 90 DEGREE, 2" MALE THREAD X 2" HOSE	1
8	GA5048385	O RING, 42.5 X 2.62 MM, SUIT 2" HOSE BARB	4
9	GA5078141	STREET ELBOW, 45 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD	1

## Chemical Probe Assembly



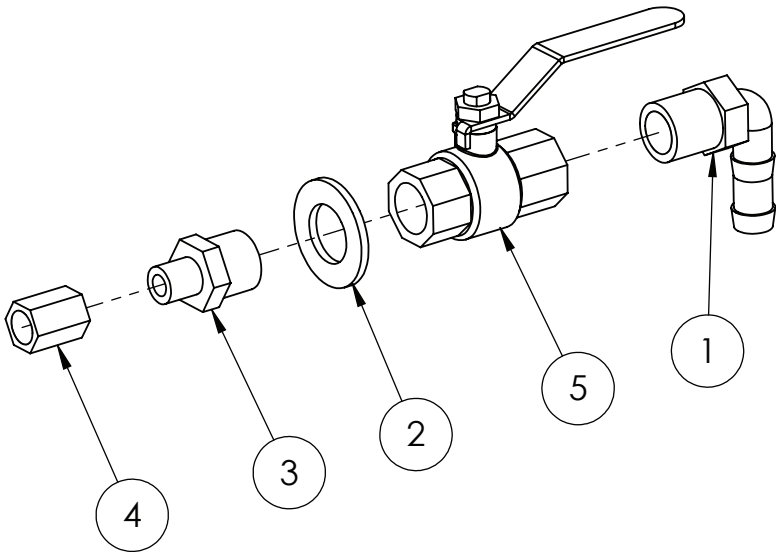
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5076007	CAM LEVER, 1" FEMALE COUPLER, 1" MALE THREAD	1
2	GA5076005	CAM LEVER, MALE PLUG, SUITS 1" & 1 1/4" COUPLINGS	1
3	GA5078164	VALVE, BALL, 1" FEMALE THREAD INLET / OUTLET, FULL PORT, LEVER HANDLE	1
4	GA5002077	KEY RING, 25MM, SS	1
5	GA5001491	CHAIN 20MM X 2MM CUT 150MM LONG (NOT SHOWN)	1
6	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1
7	GA5006705	EXHAUST CLAMP C8 2"	1
8	GA5052590	NUT M8 NYLOC SS	2
9	GA5003643	WASHER 8MM FLAT SS HD	2

# Wash Down Gun Assembly



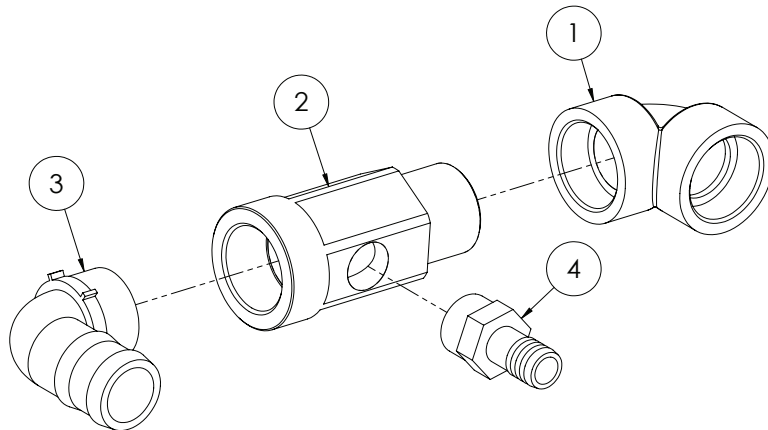
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5051390	WASH DOWN GUN	1
2	GA5049701	BUSH, BRASS REDUCING 3/4" X 1/4"	1
3	GA5051455	SUZI COIL, 12MM X 8MM X 5M (1/4" MALE SWIVEL ENDS WITH SPRINGS)	1

# Wash Down Gun Valve Assembly



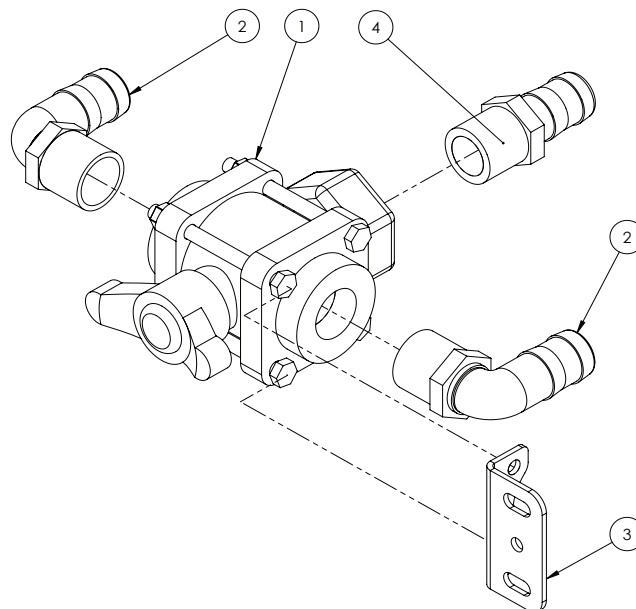
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	1
2	GA5001741	WASHER 20MM FLAT SS HD	1
3	GA5012259	REDUCING NIPPLE, 1/2" MALE THREAD X 1/4" MALE THREAD, BRASS	1
4	GA5066940	SOCKET, 1/4" FEMALE THREAD, HEX, BRASS	1
5	GA5018309	VALVE, BALL, 12MM FEMALE THREAD INLET / OUTLET, LEVER HANDLE, SS	1

## Fill Manifold Assembly



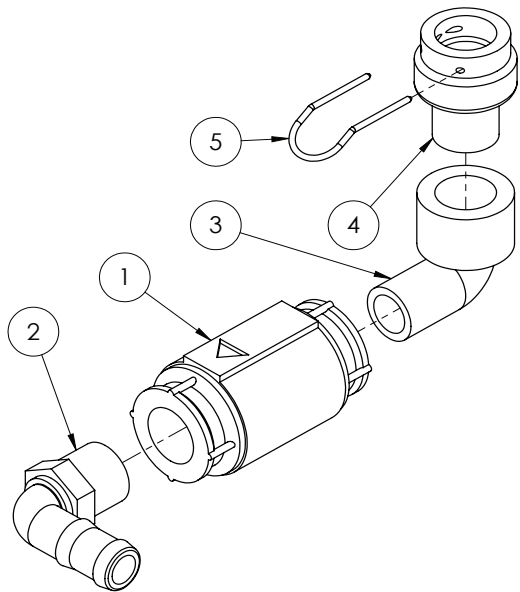
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077659	STREET ELBOW, 90 DEGREE, 2" FEMALE THREAD X 2" FEMALE THREAD	1
2	MACH0311	POLY FITTING, 2" MALE X 2" FEMALE X 1" FEMALE	1
3	GA5077740	HOSE BARB, ELBOW, 90 DEGREE, 2" MALE THREAD X 2" HOSE	1
4	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1

## Chemical Pump Venturi Valve Assembly



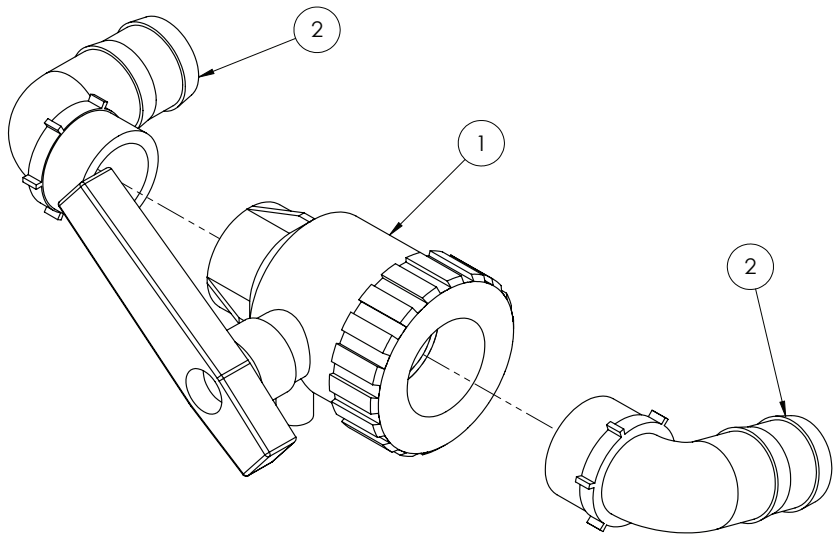
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078177	VALVE, BALL, 3 WAY, 1 FEMALE THREAD INLET / OUTLET, BOTTOM PORT, BUTTERFLY HANDLE	1
2	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	2
3	GA4502210	MOUNTING PLATE, TO SUIT BALL VALVE	1
4	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1

# Flush Tank Check Valve Assembly



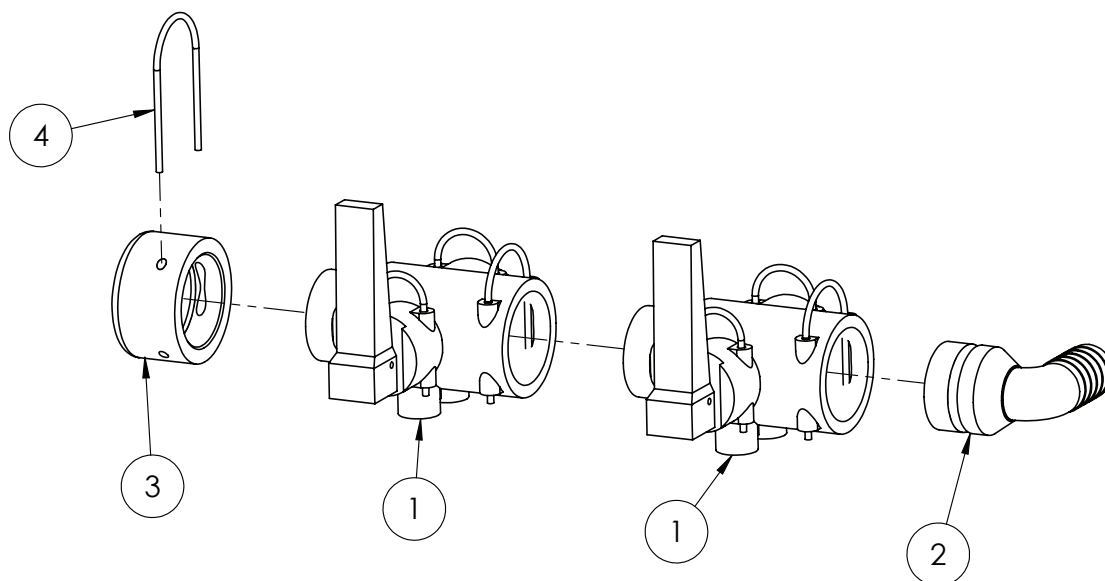
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002473	VALVE NON-RETURN 3/4"	1
2	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
3	GA5078135	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" MALE THREAD	1
4	GA4582415	PLUMBING ADAPTOR, AS24 FEMALE X 3/4" BSPT MALE	1
5	GA5065695	SAFETY PIN AS24	1

# Main Tank Fill Tap Assembly



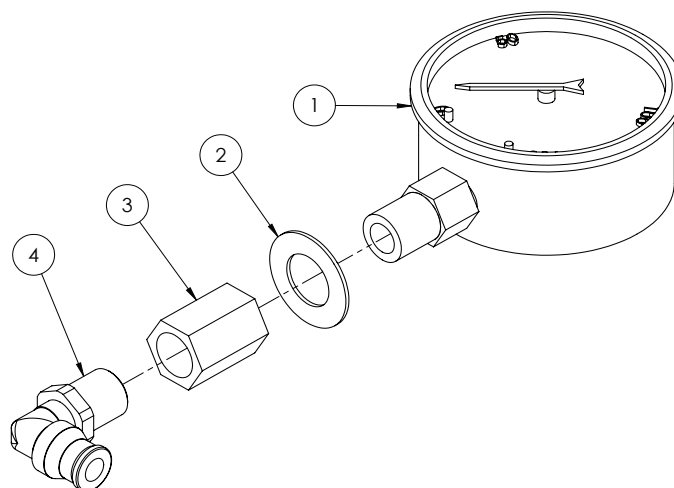
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5076981	VALVE, BALL, 2 WAY, 2" FEMALE THREAD INLET / OUTLET, LEVER HANDLE	1
2	GA5077740	HOSE BARB, ELBOW, 90 DEGREE, 2" MALE THREAD X 2" HOSE	2

## Pressure Control Assembly



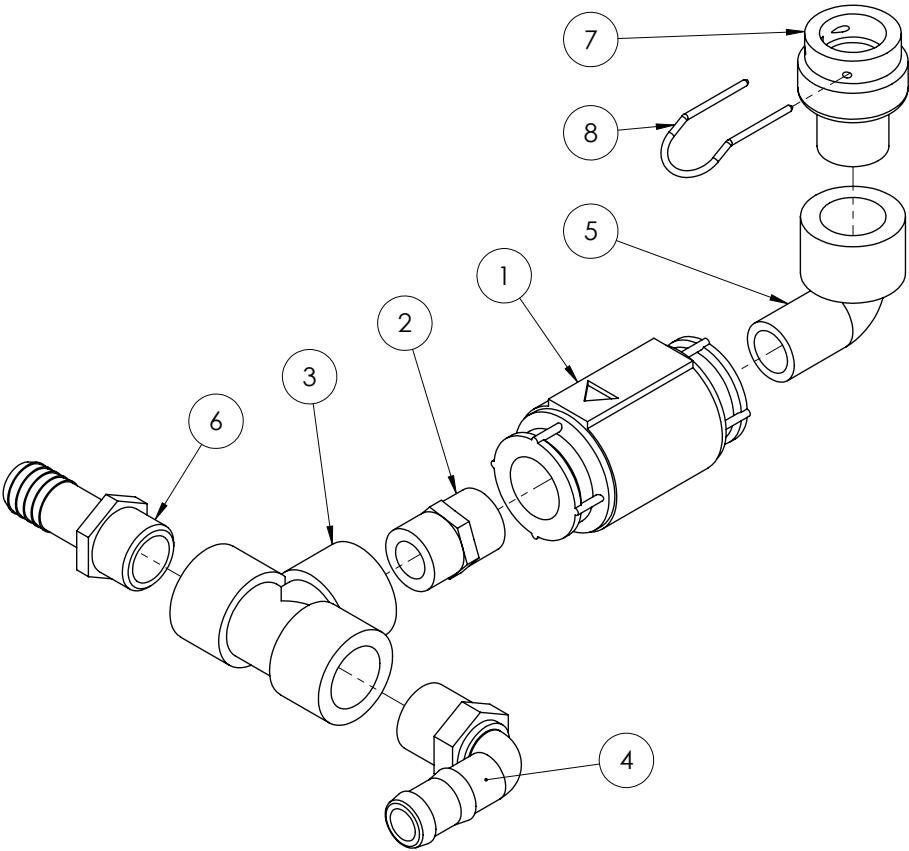
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065545	VALVE, QUICK FIT FLIP TOP, 2 WAY, AS40 MALE X AS24 FEMALE X AS40 FEMALE, ALTEK	2
2	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM	1
3	GA4582395	CAP ALTEK AS40 (DELRON)	1
4	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS	1

## Pressure Gauge Assembly



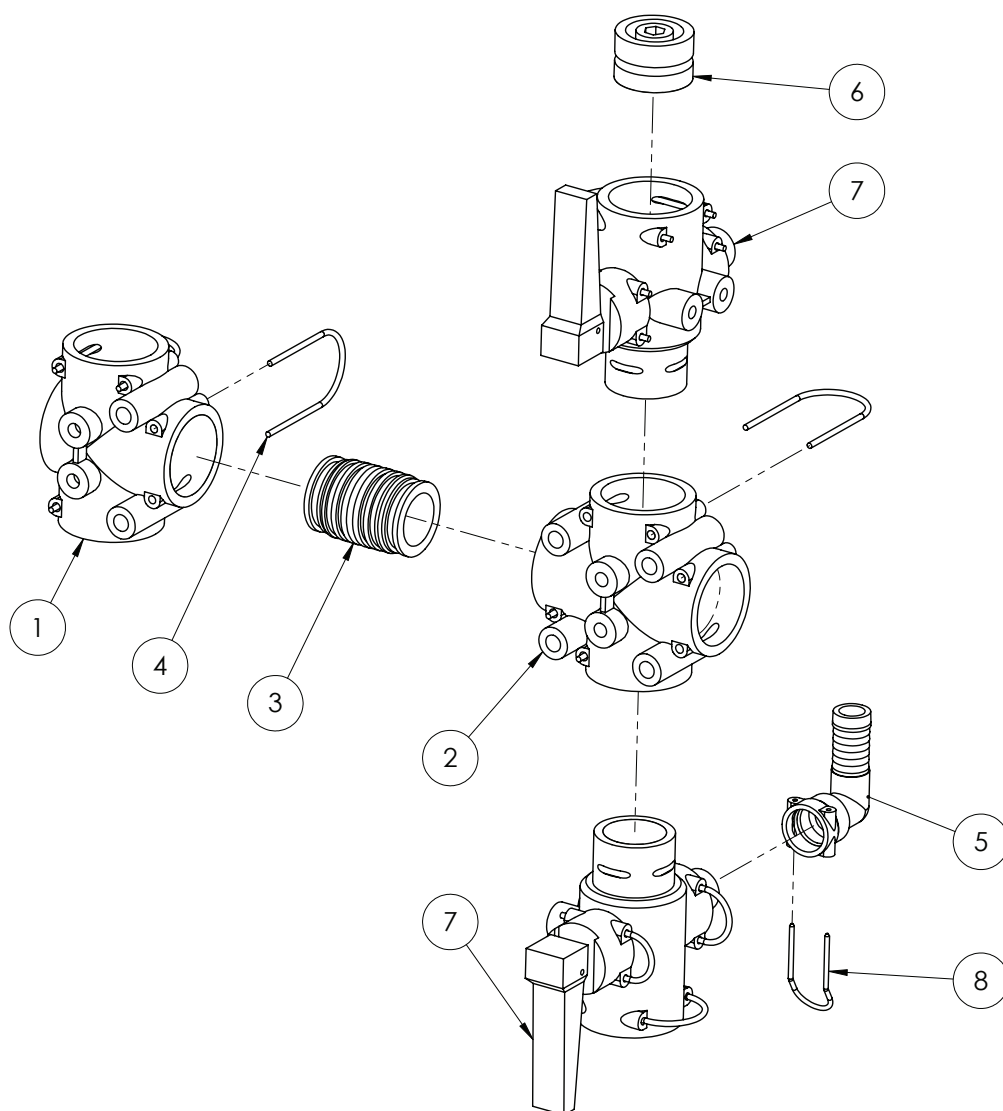
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4948470	GAUGE, PRESSURE, SMALL FACE, 160 PSI	1
2	GA5017641	WASHER 1/2" X 1" X 16G FLAT SS	1
3	GA5066940	SOCKET, 1/4" FEMALE THREAD, HEX, BRASS	1
4	GA5016233	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 6MM PUSH TYPE, METAL	1

# Pressure Delivery Check Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5002473	VALVE NON-RETURN 3/4"	1
2	GA5077913	NIPPLE, 3/4" MALE X 3/4" MALE, SHORT, BANJO	1
3	GA5078150	TEE, THREADED, 3/4" FEMALE, BANJO	1
4	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
5	GA5078135	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" MALE THREAD	1
6	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE	1
7	GA4582415	PLUMBING ADAPTOR, AS24 FEMALE X 3/4" BSPT MALE, DELRIN	1
8	GA5065695	SAFETY PIN AS24	1

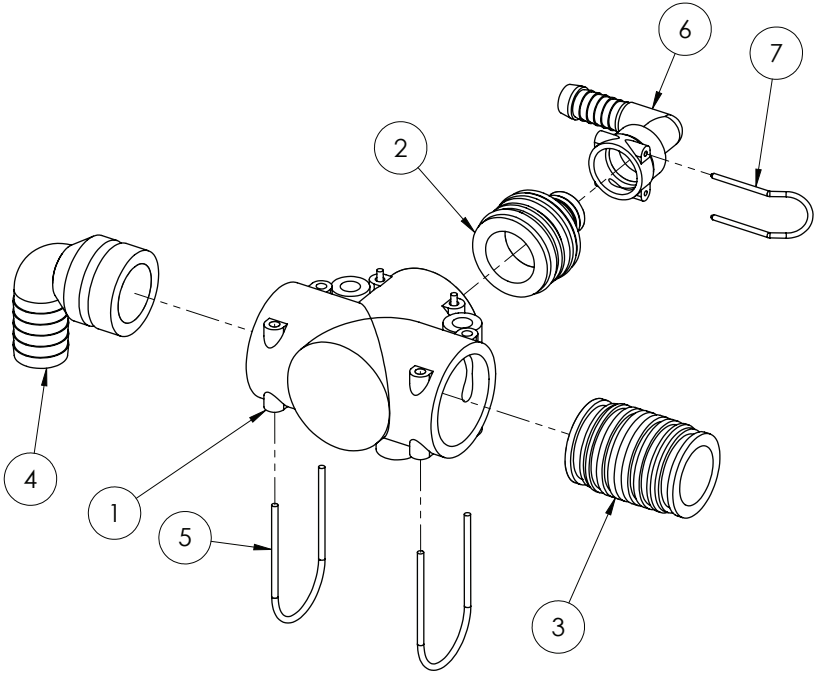
## Fill Manifold Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065560	TEE, AS40 FEMALE, M8 INSERTS, ALTEK	1
2	GA5065565	PLUMBING COUPLING, CROSS, AS40 FEMALE INLETS / OUTLETS, ALTEK	1
3	GA5065735	PLUMBING ADAPTOR, AS40 MALE X AS40 MALE, ALTEK	1
4	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS, ALTEK	6
5	GA5065675	HOSE BARB, ELBOW, 90 DEGREE, AS24 FEMALE X 20MM HOSE, ALTEK	1
6	GA5065680	PLUG, AS40 MALE, ALTEK	1
7	GA5065545	VALVE, QUICK FIT FLIP TOP, 2 WAY, AS40 MALE X AS24 FEMALE X AS40 FEMALE, ALTEK	2
8	GA5065695	SAFETY PIN AS24	1

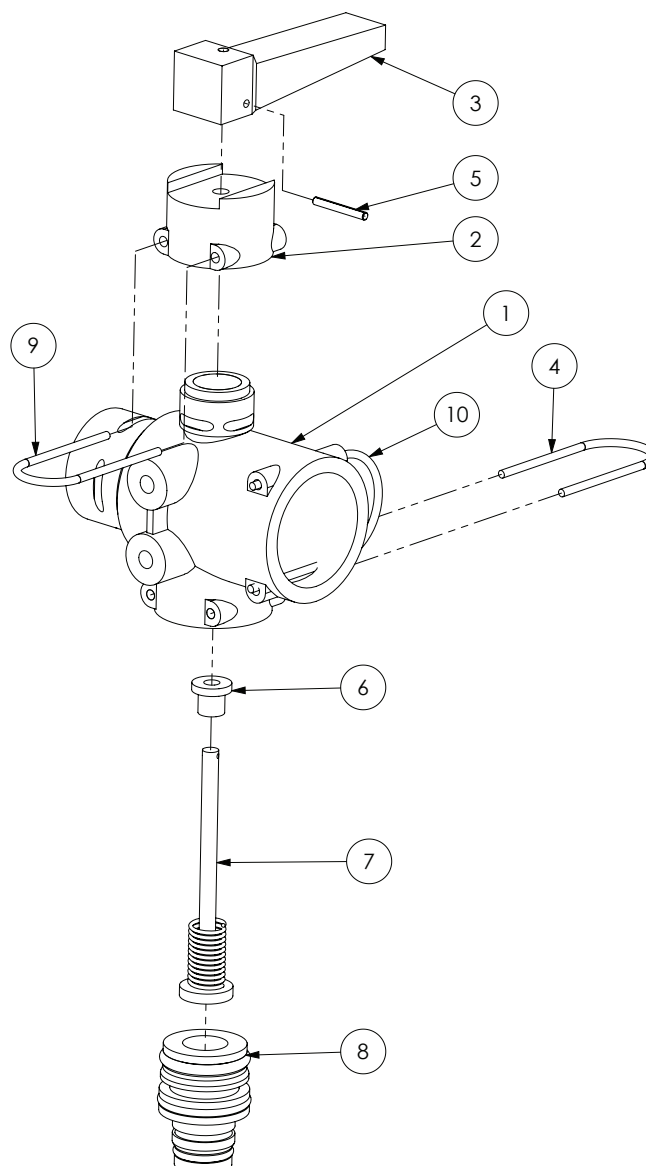


# Hopper Manifold Assembly



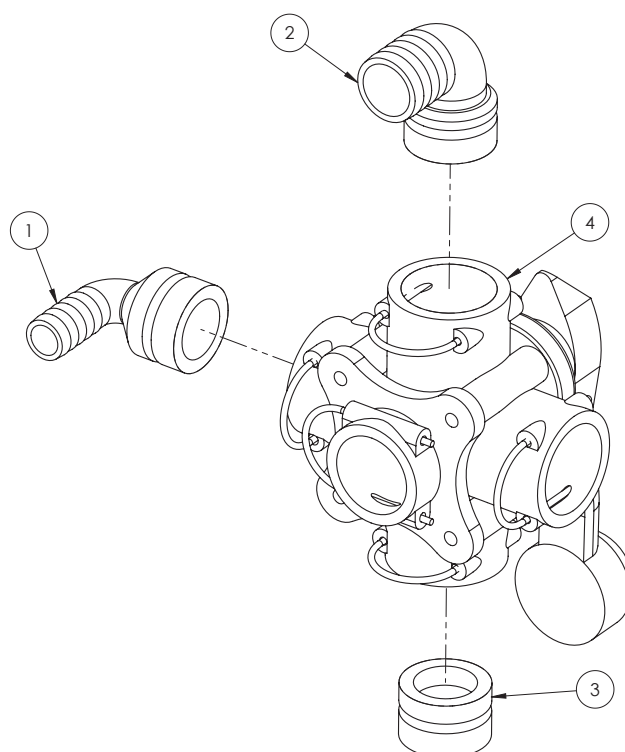
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065555	TEE, AS40 FEMALE, NO M8 INSERTS, ALTEK	1
2	GA5065605	PLUG IN ADAPTER, AS40 X AS24, ALTEK	1
3	GA5065735	PLUMBING ADAPTOR, AS40 MALE X AS40 MALE, ALTEK	1
4	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM, ALTEK	1
5	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS, ALTEK	3
6	GA5065750	HOSE BARB, ELBOW, 90 DEGREE, AS24 FEMALE X 15MM HOSE, ALTEK	1
7	GA5065695	SAFETY PIN AS24	1

## Valve - Quick Fit 2 Way Assembly



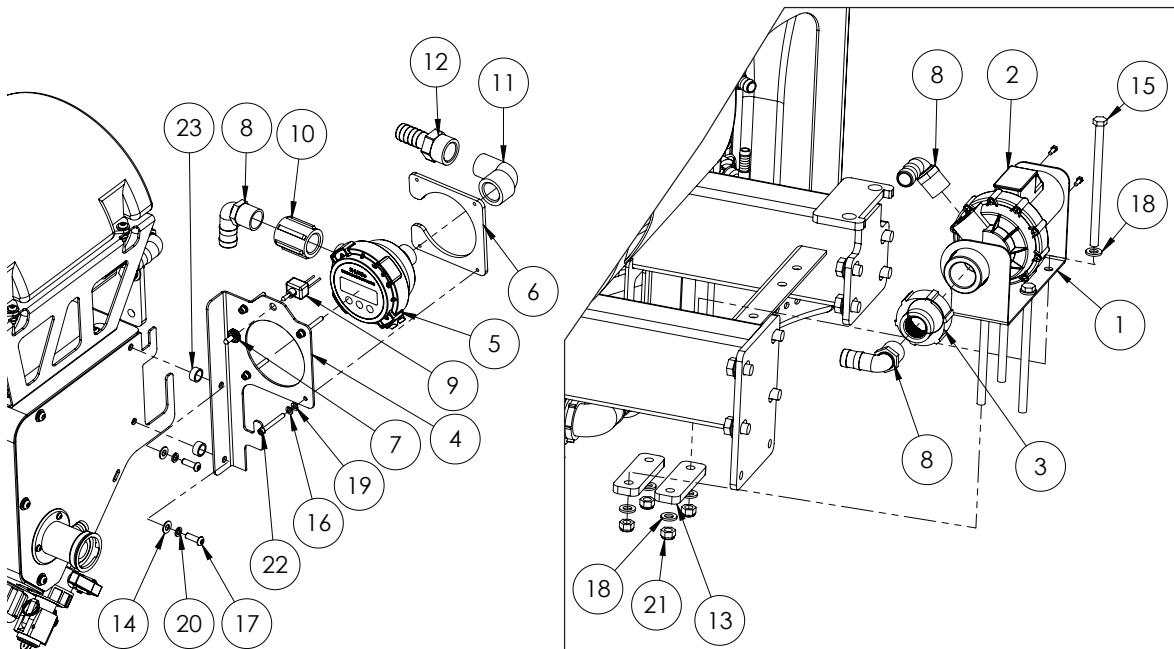
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5065545	VALVE, QUICK FIT FLIP TOP, 2 WAY, AS40 MALE X AS24 FEMALE X AS40 FEMALE, ALTEK	-
1	GA5073750	BODY	1
2	GA5073755	SLIDE CAP	1
3	GA5073760	RED LEVER	1
4	GA5065701	RETAINING PIN, SUIT AS30 PLUMBING FITTINGS	1
5	GA5073765	HANDLE RETAINING PIN	1
6	GA5073770	SPRING GUIDE	1
7	GA5073775	SWITCH ROD	1
8	GA5065835	PLUG IN ADAPTER, AS30 X AS24	1
9	GA5073780	RETAINING PIN, 4 X 26 MM	1
10	GA5065690	RETAINING PIN, SUIT AS40 PLUMBING FITTINGS	1

## Valve - 4 Way Assembly



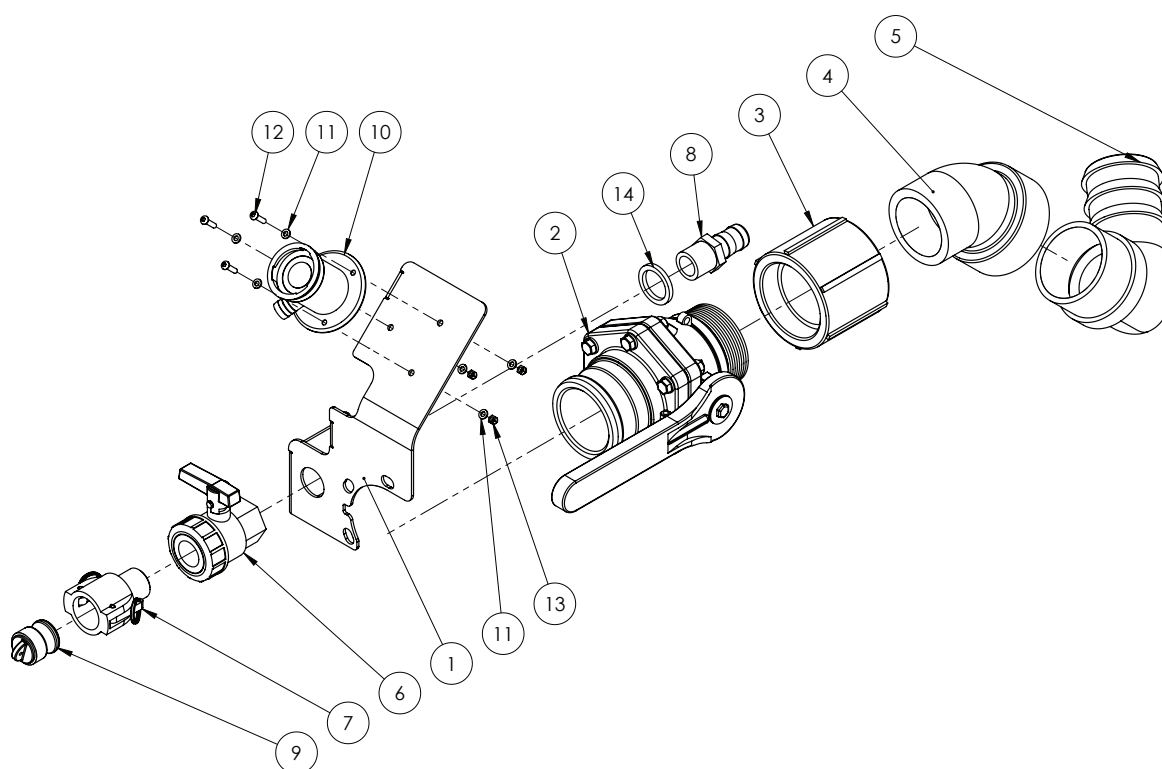
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5065610	HOSE BARB, ELBOW, 90 DEGREE, AS40 X 20MM HOSE, ALTEK	1
2	GA5065620	HOSE BARB, ELBOW, 90 DEGREE, AS40 X 33MM HOSE, ALTEK	1
3	GA5065680	PLUG, AS40 MALE, ALTEK	1
4	GA5065530	VALVE,BALL, 5 X AS40 FEMALE INLET / OUTLETS, LEVER HANDLE, ALTEK	1

## Chemical Transfer Pump Mounting



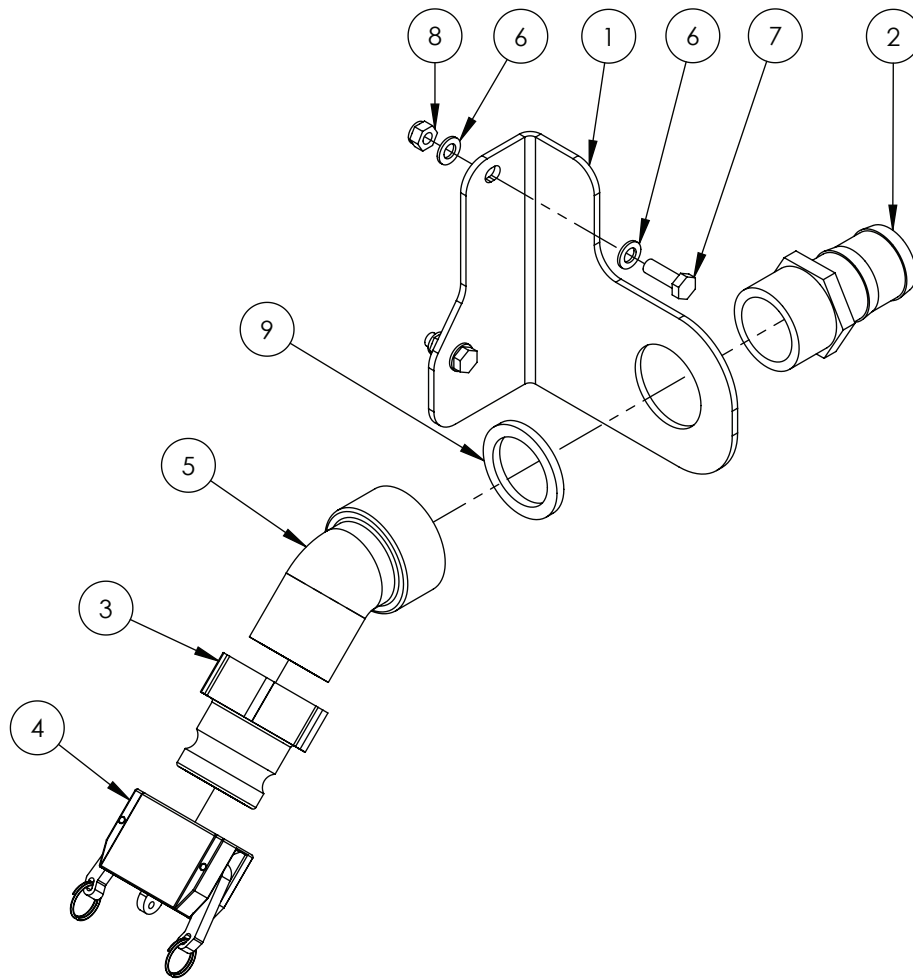
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4508525	PLATE, MOUNT CHEMICAL PUMP	1
2	GA2000030	PUMP, DIAPHRAGM, CHEMICAL TRANSFER	1
3	GA2000032	REDUCING COUPLING, 2" FEMALE NPT TO 1" FEMALE NPT	1
4	GA4508530	PLATE, MOUNT BRACKET, SHURFLO ELECTRONIC FLOW METER FM-1100	1
5	GA2000031	FLOW METER, CHEMICAL TRANSFER, 90 DEGREE, SHURFLO	1
6	GA4508535	PLATE, CLAMP BRACKET, SHURFLO ELECTRONIC FLOW METER FM-1100	1
7	GA5012175	COVER, TOGGLE SWITCH, WATERPROOF	1
8	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	3
9	GA5016749	SWITCH, TOGGLE, ON / OFF, WATER PROOF	1
10	GA5077638	COUPLING, SOCKET, 1" FEMALE THREAD, BANJO	1
11	GA5078137	STREET ELBOW, 90 DEGREE, 1" MALE X 1" FEMALE, BANJO	1
12	GA5077747	HOSE BARB, STRAIGHT, 1" FEMALE THREAD X 1" HOSE, BANJO	1
13	F70107A	PLATE, CLAMP, 130 LONG X 40 WIDE X 12MM THICK	2
14	GA5003643	WASHER 8MM FLAT SS HD	2
15	GA5011223	BOLT M12 X 200 ZP GR 8.8	4
16	GA5004447	WASHER, 6MM, SPRING, SS	4
17	GA5011473	BHCS M8 X 25 SS	2
18	GA5000577	WASHER 12MM FLAT SS HD	8
19	GA5004437	WASHER 6MM FLAT SS	4
20	GA5004919	WASHER 8MM SPRING SS	2
21	GA5012461	NUT M12 NYLOC ZP	4
22	GA5011421	SHCS M6 X 50 ZP GR12.9	4
23	GA4552070	CRUSH TUBE, 16.2 ID, 20.5 OD, 9.5MM LONG	2

## Fill Point - 3"



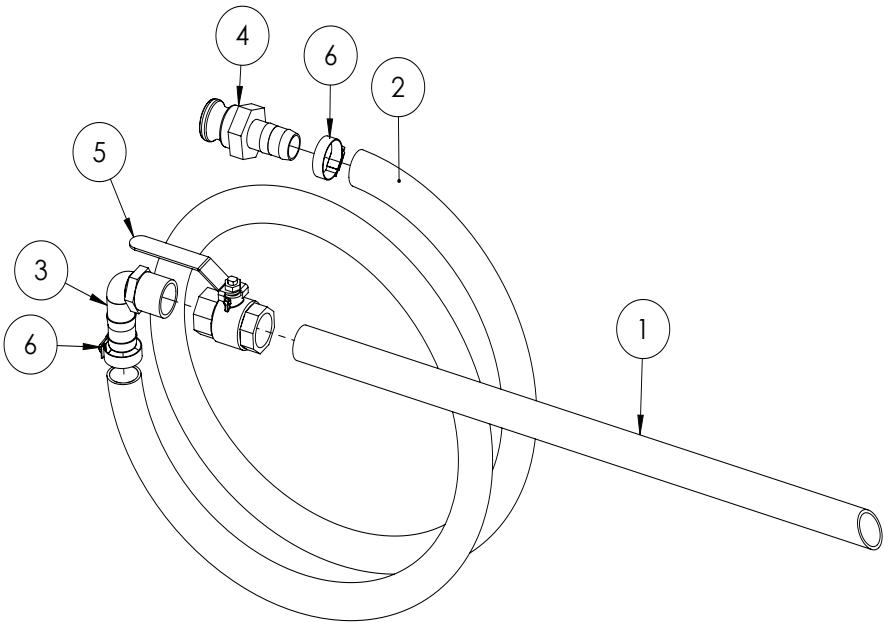
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4510570	PLATE, 3" FILL MOUNT, CHEMICAL PROBE & MICROMATIC RELOCATE	1
2	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE	1
3	GA5077642	COUPLING, SOCKET, 3" FEMALE THREAD, BANJO	1
4	GA5078143	STREET ELBOW, 45 DEGREE, 3" MALE X 3" FEMALE	1
5	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3" MALE THREAD X 3" HOSE, BANJO	1
6	GA5078164	VALVE, BALL, 1" FEMALE THREAD INLET / OUTLET, FULL PORT, LEVER HANDLE	1
7	GA5076007	CAM LEVER, 1" FEMALE COUPLER, 1" MALE THREAD, BANJO	1
8	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE, BANJO	1
9	GA5076013	CAM LEVER, MALE PLUG, 1", BANJO	1
10	GA5018800	RINSING SOCKET, 3 PIN, MICROMATIC / ENVIRO DRUM COUPLING	1
11	GA5003983	WASHER 5MM FLAT SS	6
12	GA0500004	BHCS M5 X 20 SS A2-70	3
13	GA5003975	NUT M5 NYLOC SS	3
14	GA4552865	SPACER, POD FILL POINT FITTING 3/4"	1

## Fill Point - 2"



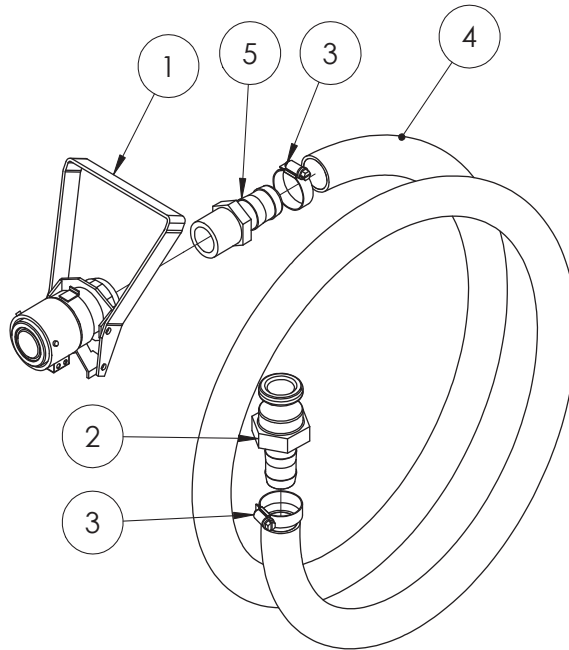
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523870	FILL PUMP MOUNT PLATE SUIT 2"	1
2	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE	1
3	GA5076606	CAM LEVER, 2" MALE COUPLER X 2" FEMALE THREAD	1
4	GA5076609	CAM LEVER, 2" FEMALE CAP	1
5	GA5078141	STREET ELBOW, 45 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD	1
6	GA5000117	WASHER 10MM FLAT SS HD	4
7	GA5065455	BOLT M10 X 30 ZP GR8.8	2
8	GA5000141	NUT M10 NYLOC ZP	2
9	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING	1

# Chemical Probe Hose Lance



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4948250	CHEMICAL SUCTION PROBE, ASSEMBLED	-
1	GA5013603	POLY PIPE 25 (CUT 630MM LONG)	1
2	GA2000220	HOSE, SUCTION, PVC, 25MM, BLACK - CUT 3200 MM LONG	1
3	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1
4	GA5076011	CAM LEVER, 1" MALE COUPLING X 1" HOSE BARB, BANJO	1
5	GA5018319	VALVE, BALL, 25MM FEMALE THREAD INLET / OUTLET, LEVER HANDLE, SS	1
6	GA5001681	HOSE CLAMP, 1" SS (20-32/12W)	2

## Enviro Coupling & Hose



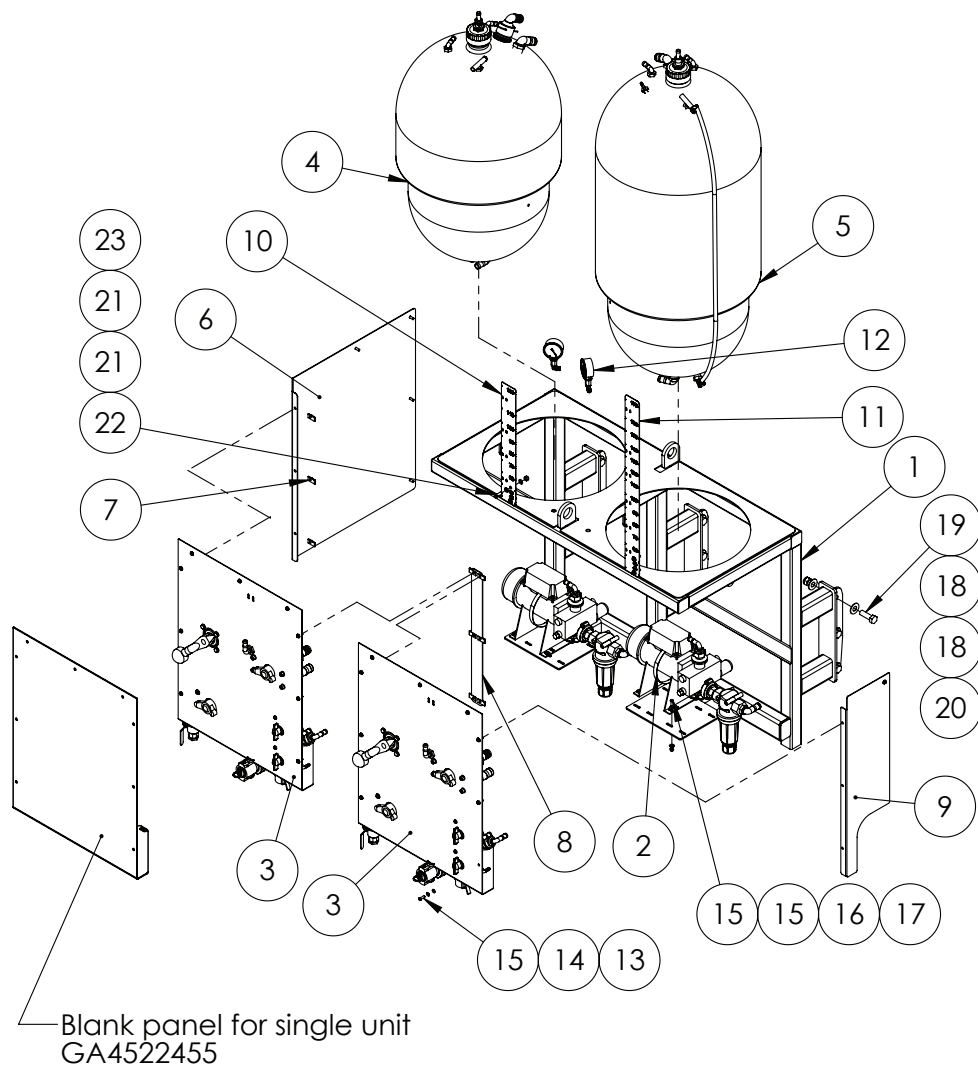
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5020600	ENVIRO DRUM / MICROMATIC COUPLING WITH SUCTION HOSE	-
	GA5018803	MICROMATIC DRUM VALVE COUPLING, 3 PIN, VITON SEALS	1
1	GA5018799	SEAL KIT, SUIT MICROMATIC / ENVIRO DRUM COUPLING GA5018803	-
2	GA5076011	CAM LEVER, 1" MALE COUPLING X 1" HOSE BARB, BANJO	1
3	GA5001681	HOSE CLAMP, 1" SS (20-32/12W)	2
4	GA2000220	HOSE, SUCTION, PVC, 25MM, BLACK - CUT 2840MM LONG	1
5	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1



# Chapter 6

## DIRECT CHEMICAL INJECTION

### DCI Pod



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656400	DIRECT INJECTION FRAME NARROW	1
2	*	HIGH VOLUME PUMP ASSEMBLY - DUAL UNIT	2
3	*	COVER PLATE ASSEMBLY	2
4	*	DCI BOTTLE - 120L ASSEMBLY	1
5	*	DCI BOTTLE - 165L ASSEMBLY	1

\* Sub-assembly on following pages

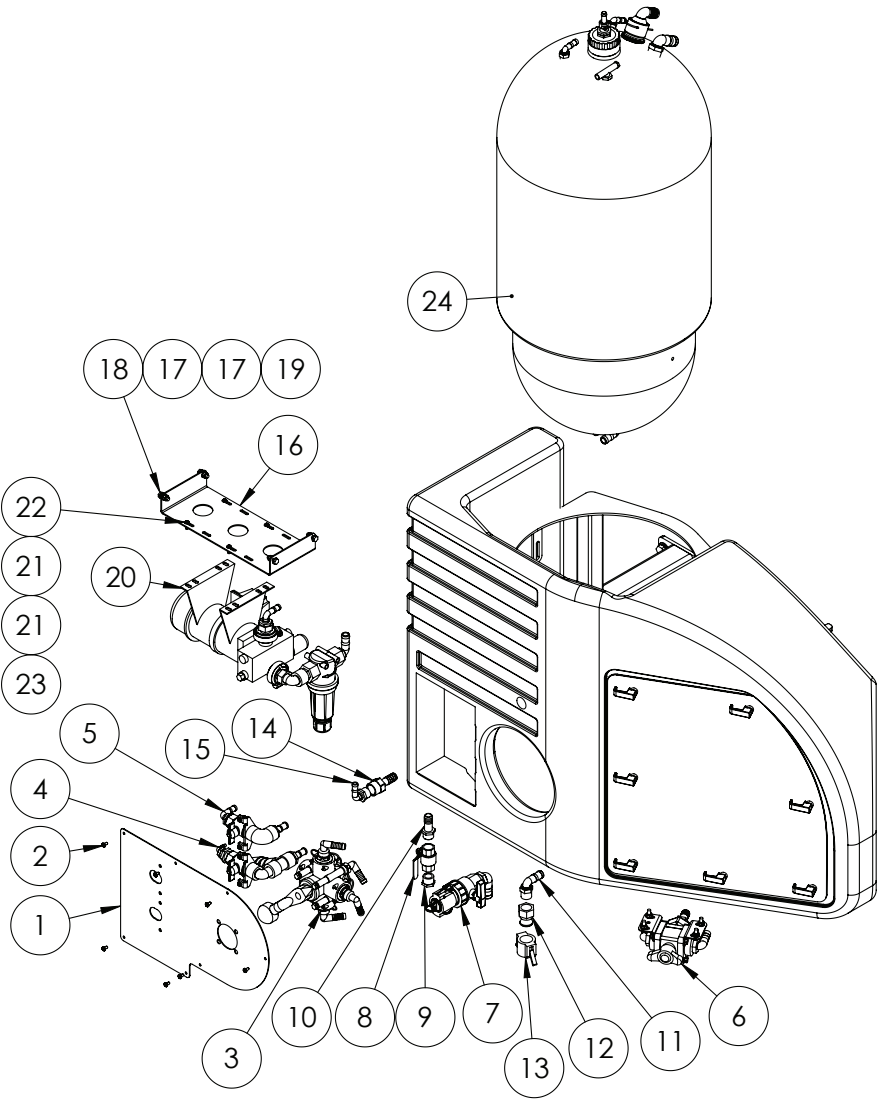
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## DCI Pod

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	GA4502230	COVER SUIT DIRECT INJECTION (2ND UNIT)	1
7	GA5066830	SPEED CLIP M6	3
8	*	PANEL ALIGNMENT STRIP ASSEMBLY	1
9	GA4533435	PANEL DCI FRONT BOLT ON (1.6MM FMS CUT & FOLD)	1
10	GA4523465	125L DCI LEVEL GAUGE	1
11	GA4523470	160L DCI LEVEL GAUGE	1
	GA4523471	160L DCI LEVEL GAUGE X 2 SUIT DUAL TANKS	
12	*	VACUUM GAUGE ASSEMBLY	2
13	GA5004437	WASHER 6MM FLAT SS	23
14	GA5004447	WASHER, 6MM, SPRING, SS	23
15	GA5004053	BHCS M6 X 20 SS	31
16	GA5017643	WASHER, 1/4" ID X 5/8" OD X 18G, FLAT SS	16
17	GA5048115	NUT M6 NYLOC ZP	8
18	GA5001043	WASHER 16MM FLAT SS HD	18
19	GA5000931	BOLT M16 X 50 ZP GR8.8	9
20	GA5001029	NUT M16 NYLOC ZP	9
21	GA5003643	WASHER 8MM FLAT SS HD	8
22	GA5011473	BHCS M8 X 25 SS	4
23	GA5052590	NUT M8 NYLOC SS	4

\* Sub-assembly on following pages

# DCI Third Unit Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502225	3RD DCI PANEL SUIT RHS POD	1
2	GA5014821	SCREW 12G X 1/2", SELF TAPPER, SS	7
3	*	BALL VALVE ASSEMBLY	1
4	*	TANK VENT BALL VALVE ASSEMBLY	1
5	*	TANK RINSE BALL VALVE ASSEMBLY	1
6	*	CHEMICAL PUMP SUCTION VALVE ASSEMBLY - THIRD UNIT	1
7	*	CHEMICAL PROBE COUPLING BALL VALVE ASSEMBLY	1
8	GA5018309	VALVE, BALL, 12MM FEMALE THREAD INLET / OUTLET, LEVER HANDLE, SS	1
9	GA5077944	PLUG, 3/4" MALE THREAD, BANJO	1
10	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1

\* Sub-assembly on following pages

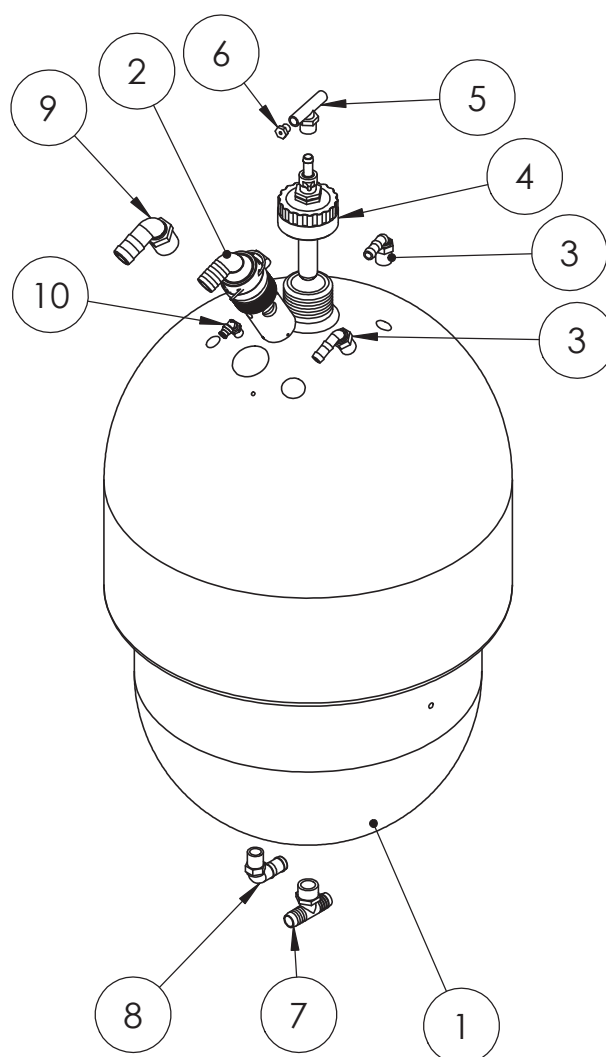
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## DCI Third Unit Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
12	GA5077124	CAM LEVER, 3/4" MALE COUPLING X 3/4" FEMALE THREAD, BANJO	1
13	GA5077351	CAP, POLY PIPE, 3/4", BANJO	1
14	GA5077743	HOSE BARB, STRAIGHT, 3/4" FEMALE X 3/4" HOSE, BANJO	1
15	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	1
16	GA4534670	DCI 3RD PUMP MOUNT	1
17	GA5003643	WASHER 8MM FLAT SS HD	8
18	GA5004711	BOLT M8 X 25 ZP GR8.8	4
19	GA5004917	NUT M8 NYLOC ZP	4
20	*	HIGH VOLUME PUMP ASSEMBLY - THIRD UNIT	1
21	GA5004437	WASHER 6MM FLAT SS	8
22	GA5004053	BHCS M6 X 20 SS	4
23	GA5048115	NUT M6 NYLOC ZP	4
24	*	DCI BOTTLE - 120L ASSEMBLY	1
	*	DCI BOTTLE - 165L ASSEMBLY	

\* Sub-assembly on following pages

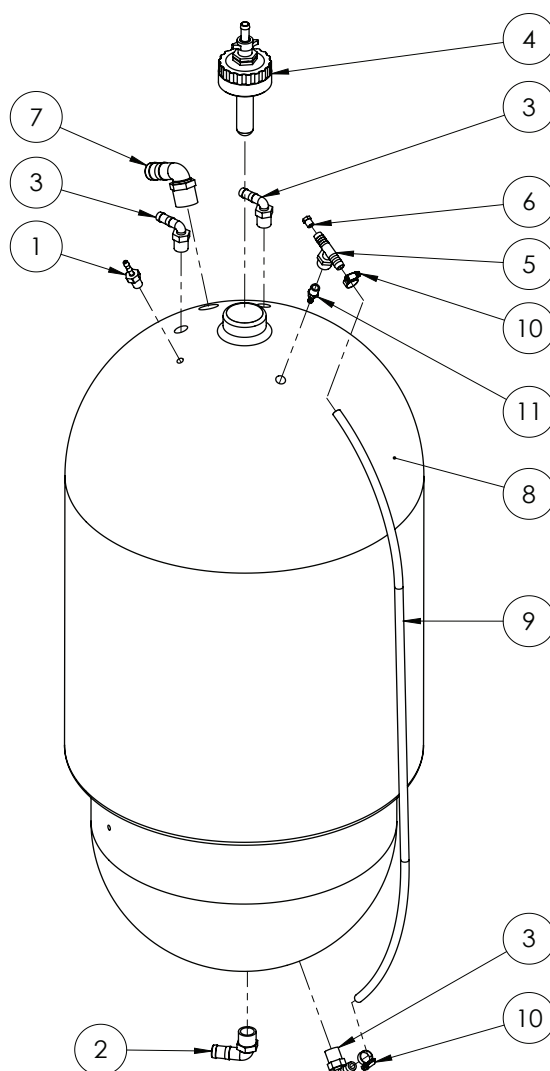
## DCI Bottle - 120L Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5020635	TANK, 120L NATURAL, EXACTA FOAM/DIRECT INJECT (BLANK)	1
2	*	FILL SHUT OFF ASSEMBLY	1
3	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	2
4	GA4903050	CAP, PRE-ASSEMBLED WITH RINSE NOZZLE, SUIT TRANSCAL AND DCI	1
5	GA3500391	TEE, THREADED, 1/2" MALE X 1/2" HOSE	1
6	AI814	MALE TAPER PIPE BY HOSE BARB 1/8" X 1/4"	1
7	GA3500431	HOSE BARB, TEE, 3/4" HOSE BARB X 3/4" HOSE BARB X 3/4" MALE THREAD	1
8	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 3/4" HOSE	1
9	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	1
10	GA5016235	SWIVEL ELBOW PUSH IN BRASS 10MM X 1/4" BSP	1

\* Sub-assembly on following pages

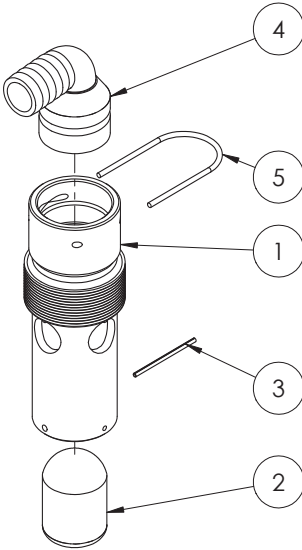
## DCI Bottle - 165L Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077691	HOSE BARB, STRAIGHT, 1/4" MALE THREAD X 1/4" HOSE	1
2	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
3	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	3
4	*	RINSE NOZZLE AND CAP COMPLETE	1
5	GA3500391	TEE, THREADED, 1/2" MALE X 1/2" HOSE	1
6	GA5020695	1/8" BRASS HOSE BARB WITH BARB REMOVED	1
7	GA5077723	HOSE BARB 90 DEGREE 1"	1
8	GA5018495	TANK 165 L, NATURAL, DIRECT INJECTION	1
9	GA2000210	HOSE, 12MM, CLEAR, WIRE REINFORCED	1
10	GA5000469	HOSE CLAMP, 1/2", SS	2
11	GA5020540	HOSE BARB, STRAIGHT, 1/4" MALE THREAD X 1/4" HOSE, BRASS	1

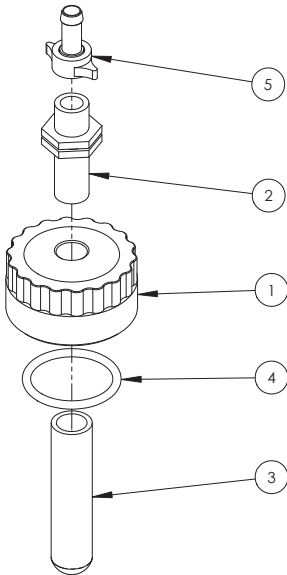
\* Sub-assembly on following pages

# Fill Shut Off Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4552140	VENTURI FILL STOP HOUSING	1
2	GA5066840	BALL FLOAT	1
3	GA5066835	ROLL PIN 4MM X 50MM STAINLESS STEEL	1
4	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM, ALTEK	1
5	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS, ALTEK	1

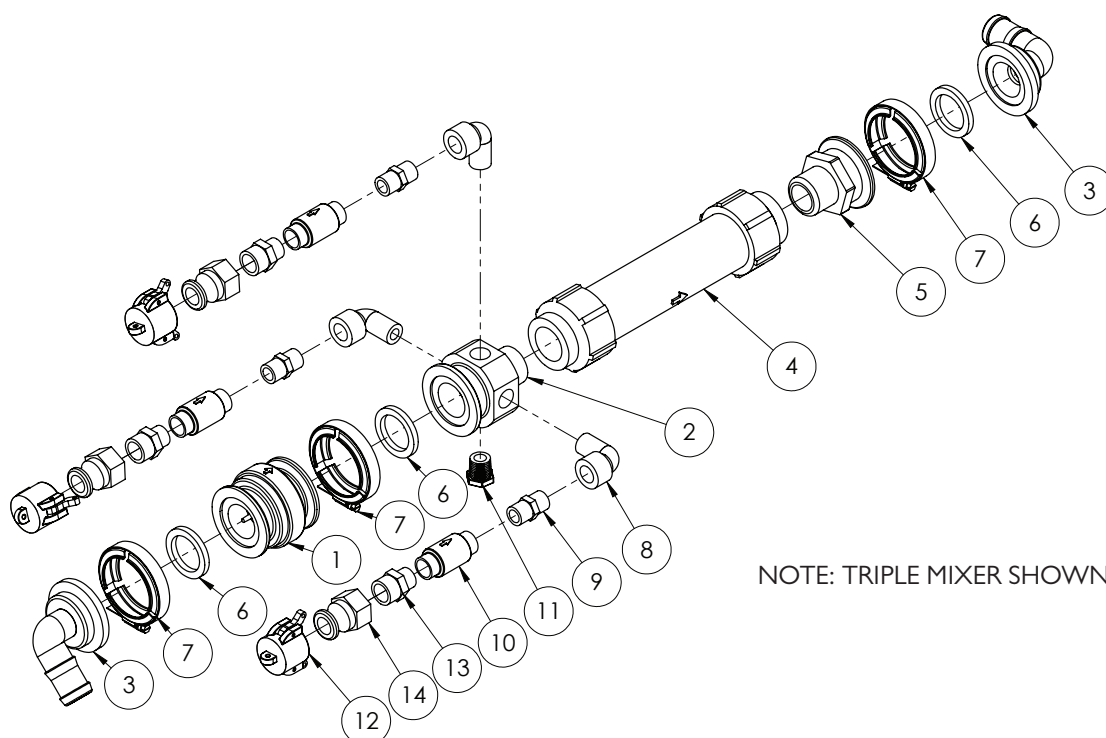
# Rinse Nozzle & Cap



GA4903050	CAP, WITH RINSE NOZZLE
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L055A	CAP / LID, 80 OD, 1/2" BSPP FEMALE THREAD IN TOP, SUIT TRANSCAL	1
2	GA5078408	PLUMBING FITTING, NIPPLE, 1/2", LONG	1
3	GA5077063	NOZZLE, DRUM & CONTAINER RINSING, ARAG	1
4	GA5009187	O-RING, 60 X 5.5MM, SUITS EXACTA TANK CAP	1
5	GA5075655	HOSE BARB, BRASS, 13MM HOSE X FLY NUT END, ARAG	1

## Mixing Chamber

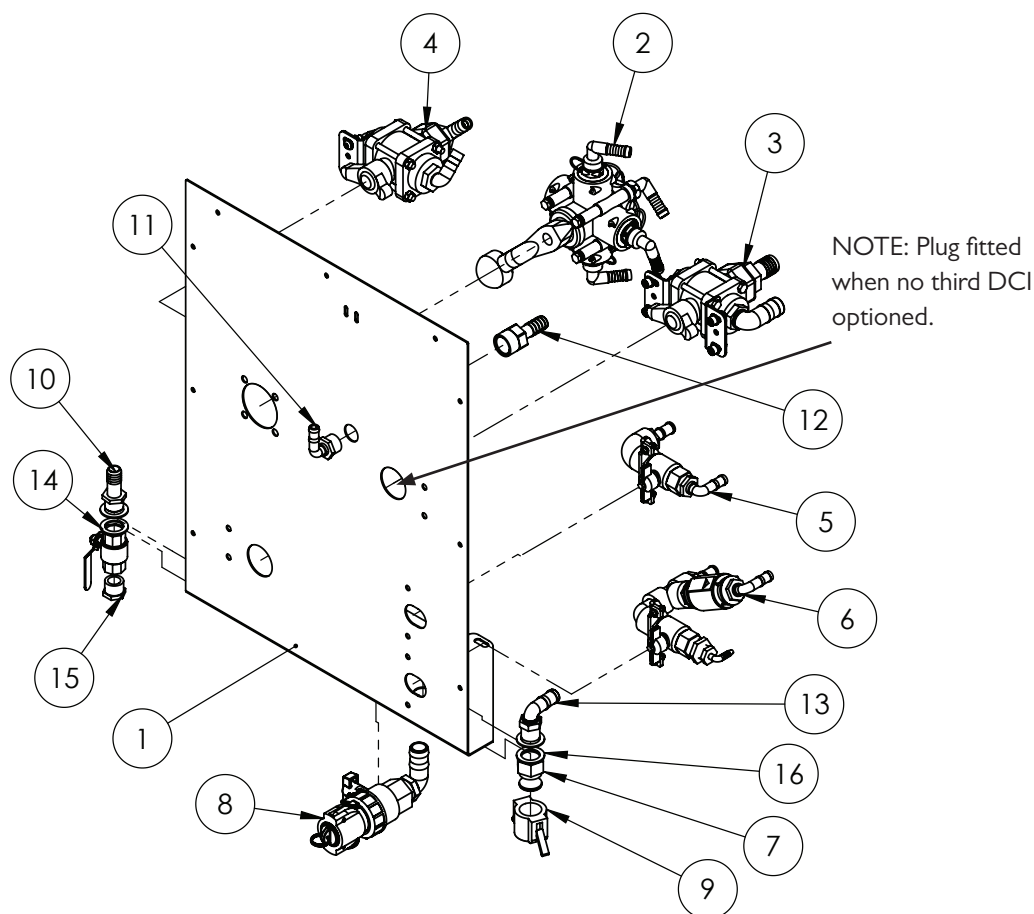


NOTE: TRIPLE MIXER SHOWN.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077890	CHECK VALVE, 2" MANIFOLD FLANGE	1
2	GA4572025	MANIFOLD, 2" FLANGE X 1 1/4" MALE THREAD X 1/2" FEMALE THREAD	1
3	GA5077831	HOSE BARB, ELBOW, 90 DEGREE, 2" FLANGE X 1 1/4" HOSE	2
4	GA5075831	MIXER, FLOW ASSEMBLY SUIT DCI 1 1/4" NPT, RAVEN	1
5	GA5077832	PLUMBING ADAPTOR, 2" FLANGE X 1 1/4" MALE THREAD	1
6	GA5009335	SEAL, 41.5 ID X 55 OD X 6.5MM THICK, EPDM, SUIT 1 1/2" FLANGE	3
7	FC200	CLAMP, WORM SCREW, USE WITH 2" STANDARD FLANGE PORT	3
8	GA5078133	STREET ELBOW, 90 DEGREE, 1/2" FEMALE THREAD X 1/2" MALE THREAD	3
9	GA5048310	NIPPLE, 1/2" THREAD X 1/2" THREAD, BRASS	3
10	GA5051380	VALVE, CHECK, 1/2" FEMALE THREAD INLET / OUTLET, SS, 200PSI MAXIMUM	3
11	GA5077943	PLUG, 1/2" MALE THREAD, BANJO (TRIPLE MIXER VERSION)	1
		PLUG, 1/2" MALE THREAD, BANJO (TWIN MIXER VERSION)	2
		PLUG, 1/2" MALE THREAD, BANJO (SINGLE MIXER VERSION)	3
12	GA5077131	CAM LEVER, FEMALE CAP, 3/4", BANJO	3
13	GA5078087	REDUCING NIPPLE, 3/4" MALE THREAD X 1/2" MALE THREAD	3
14	GA5077124	CAM LEVER, 3/4" MALE COUPLING X 3/4" FEMALE THREAD	3



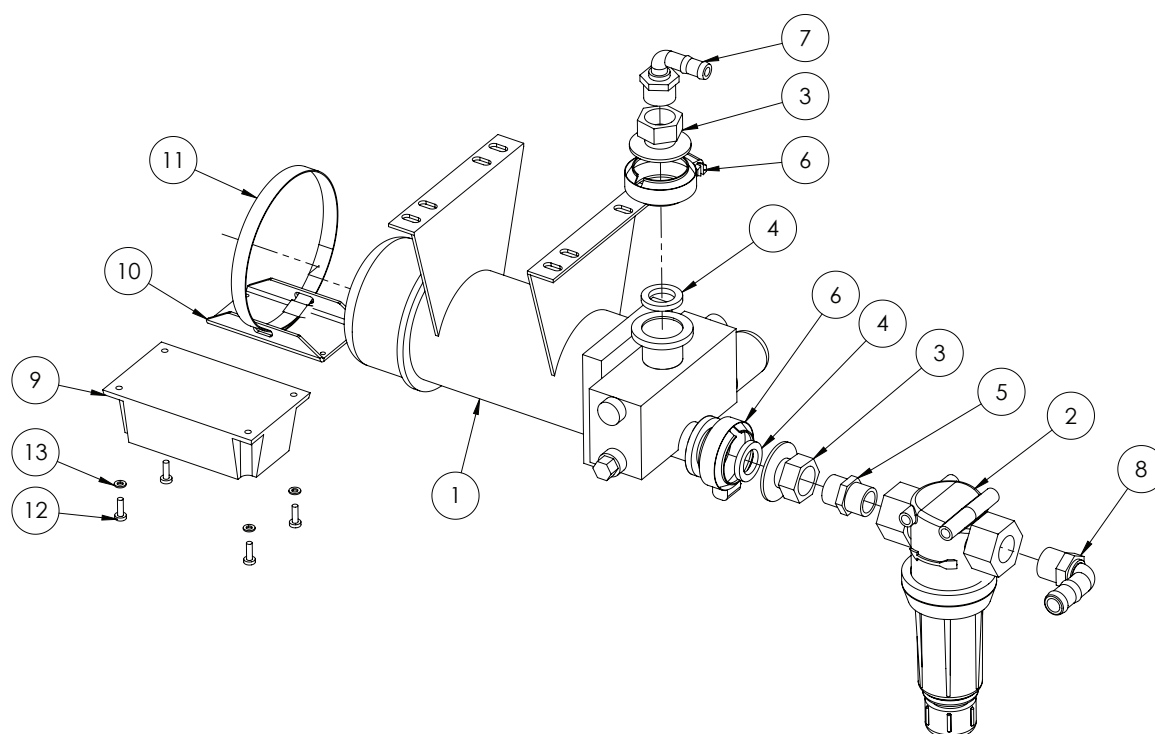
## Cover Plate Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502180	COVER FOR DIRECT CHEM INJECTION 2MM FMS	1
2	*	BALL VALVE ASSEMBLY	1
3	*	CHEMICAL TANK VACUUM VALVE ASSEMBLY	1
4	*	CHEMICAL PUMP SUCTION VALVE ASSEMBLY - DUAL UNIT	1
5	*	TANK RINSE BALL VALVE ASSEMBLY	1
6	*	TANK VENT BALL VALVE ASSEMBLY	1
7	GA5077124	CAM LEVER, 3/4" MALE COUPLING X 3/4" FEMALE THREAD	1
8	*	CHEMICAL PROBE COUPLING BALL VALVE ASSEMBLY	1
9	GA5077351	CAP, POLY PIPE, 3/4", BANJO	1
10	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
11	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	1
12	GA5077743	HOSE BARB, STRAIGHT, 3/4" FEMALE X 3/4" HOSE	1
13	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
14	GA5018313	VALVE, BALL, 20MM FEMALE THREAD INLET / OUTLET, LEVER HANDLE, SS	1
15	GA5077944	PLUG, 3/4" MALE THREAD, BANJO	1
16	GA4522315	WASHER, 27 ID X 40 OD X 2MM THICK, SS	4

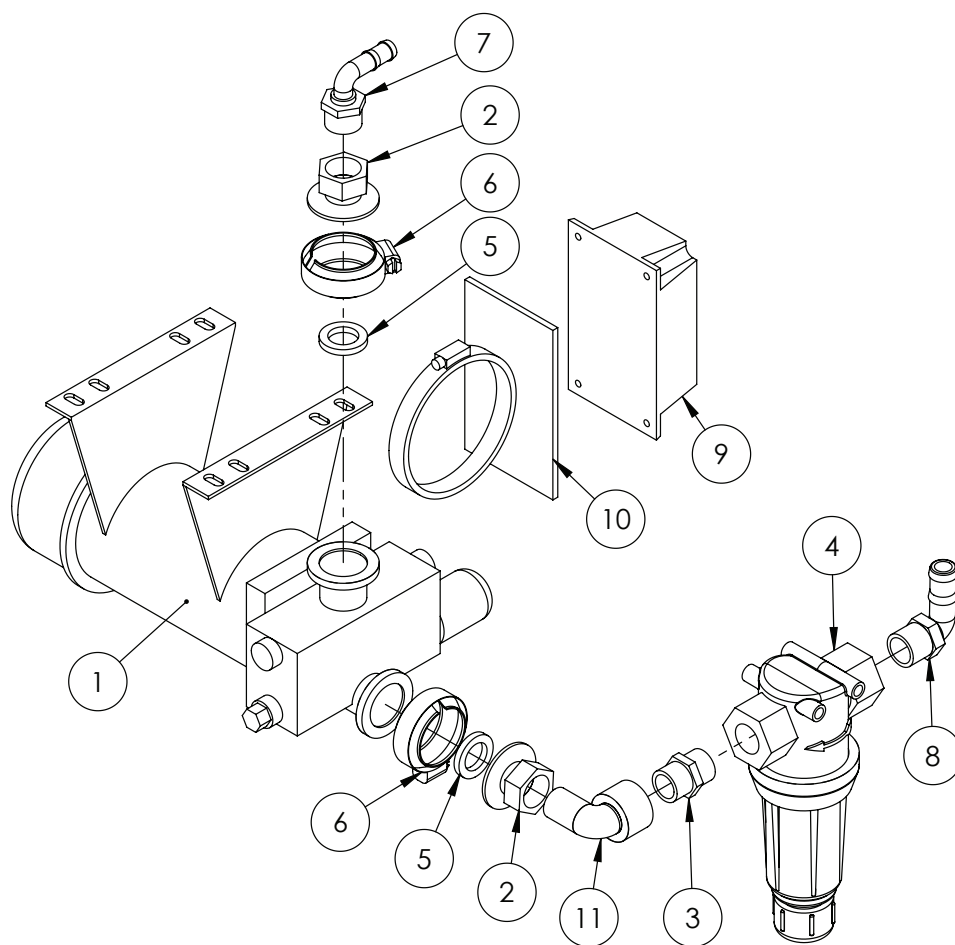
\* Sub-assembly on following pages

## High Volume Pump - Dual Unit



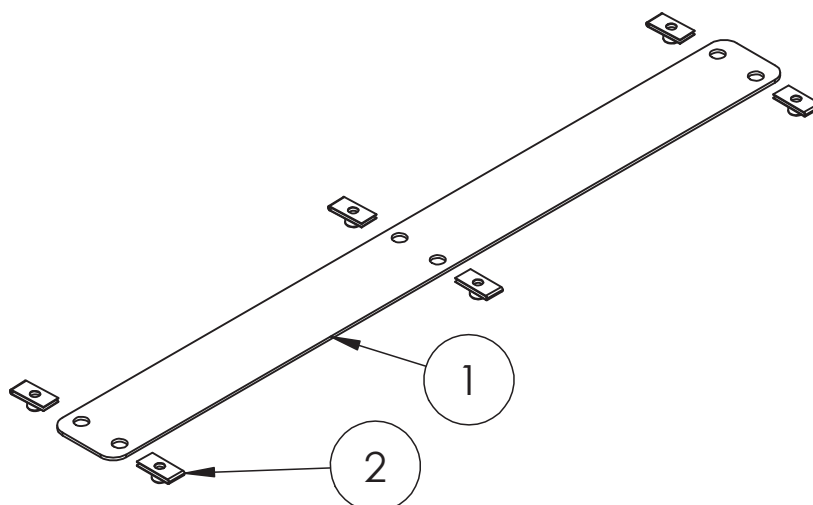
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5076028	COVER, ENCLOSURE SUIT DCI PUMP, RAVEN	-
1	GA5075914	PUMP, DCI INJECTION, 5-200 OZ/MIN (HIGH VOL), 3/4", RAVEN	1
	GA5075924	PUMP, DCI INJECTION, 1-40 OZ/MIN (LOW VOL), 3/4", RAVEN	1
2	GA5077271	FILTER, 3/4" FEMALE THREAD INLET / OUTLET, ORANGE 200 MESH SCREEN	1
3	GA5077804	COUPLING, 1" FLANGE X 3/4" FEMALE THREAD, BANJO	2
4	GA5009341	GASKET CAMLOCK NITRILE 3/4"	2
5	GA5077913	NIPPLE, 3/4" MALE X 3/4" MALE, SHORT, BANJO	1
6	FC100	CLAMP, WORM SCREW, USE WITH 1" STANDARD FLANGE PORT, BANJO	2
7	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	1
8	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
9	GA5075919	NODE, DCI PUMP, CAN, RAVEN	1
10	GA4537345	BRACKET, CAN NODE MOUNT SUIT DCI PUMP, RAVEN	1
11	GA5053945	HOSE CLAMP QUICK RELEASE 51MM - 130MM (PK 10)	1
12	GA5003977	BOLT M5 X 16 PAN HEAD SS A2-70	4
13	GA5003983	WASHER 5MM FLAT SS	4

## High Volume Pump - Third Unit



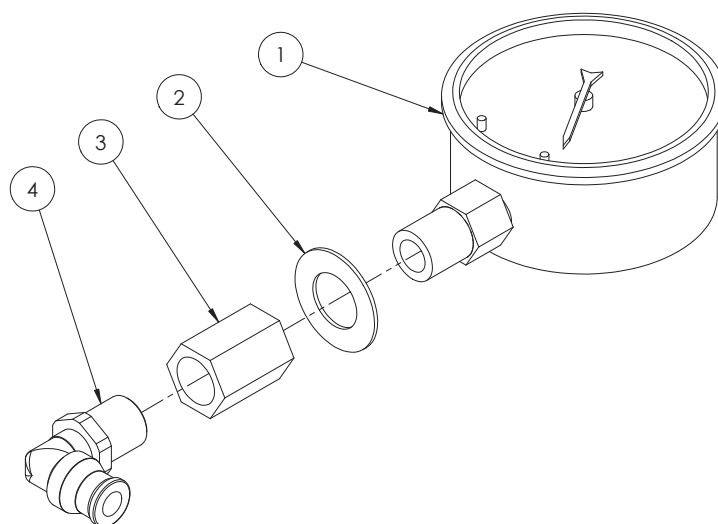
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075914	PUMP, DCI INJECTION, 5-200 OZ/MIN (HIGH VOL), 3/4", RAVEN	1
2	GA5077804	COUPLING, 1" FLANGE X 3/4" FEMALE THREAD, BANJO	2
3	GA5077913	NIPPLE, 3/4" MALE X 3/4" MALE, SHORT, BANJO	1
4	GA5077271	FILTER, 3/4" FEMALE THREAD INLET / OUTLET, YELLOW 30 MESH SCREEN	1
5	GA5009341	GASKET KAMLOCK NITRILE 3/4" (FIT 075)	2
6	GA5077664	CLAMP, WORM SCREW, USE WITH 1" STANDARD FLANGE PORT, BANJO	2
7	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	1
8	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
9	GA5075919	NODE, DCI PUMP, CAN, RAVEN	1
10	GA5076311	BRACKET, CAN NODE MOUNT SUIT DCI PUMP, RAVEN	1
11	GA5078135	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" MALE THREAD	1

## Panel Alignment Strip



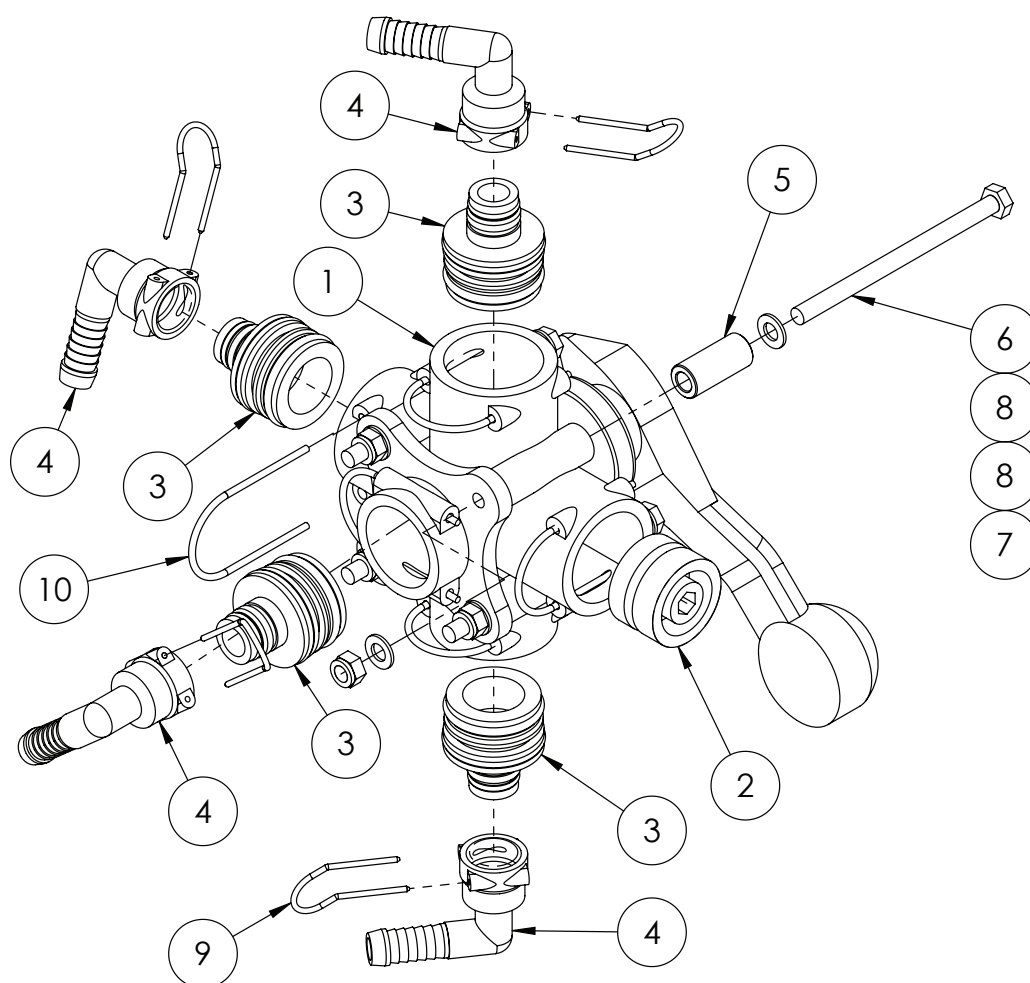
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4502235	DIRECT INJECTION ALIGNMENT STRIP	1
2	GA5066830	SPEED CLIP M6	6

## Vacuum Gauge Assembly



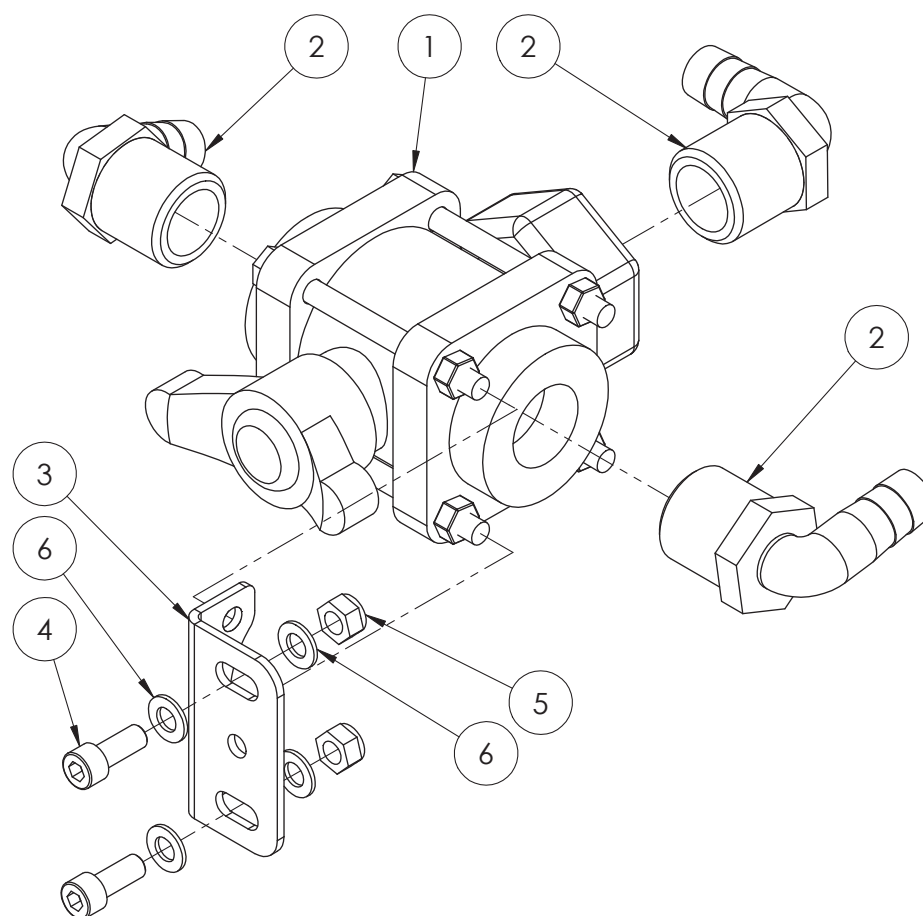
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5051030	GAUGE SMALL VACUUM -100-0 KPA	1
2	GA5017641	WASHER 1/2" X 1" X 16G FLAT SS	1
3	GA5066940	SOCKET, 1/4" FEMALE THREAD, HEX, BRASS	1
4	GA5016235	SWIVEL ELBOW PUSH IN BRASS 10MM X 1/4" BSP	1

## Ball Valve Assembly



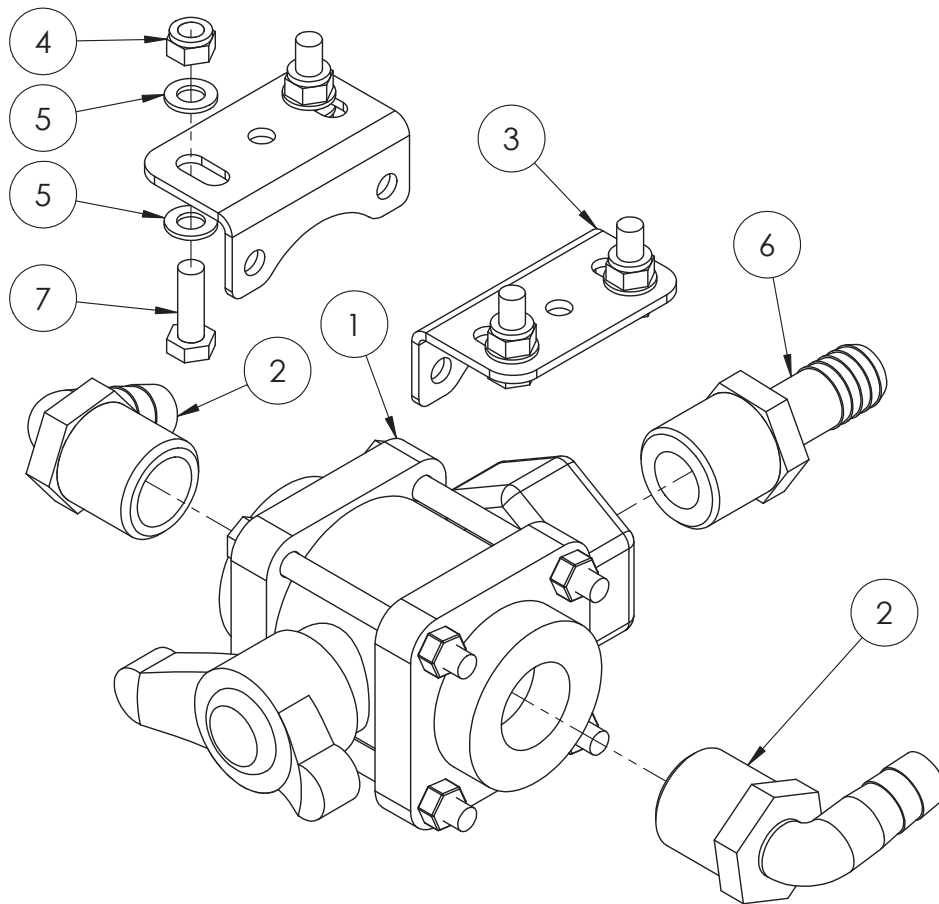
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5065531	HANDLE, RED PLASTIC, SUIT 5 WAY BALL VALVE, ALTEK	-
1	GA5065530	VALVE,BALL, 5 X AS40 FEMALE INLET / OUTLETS, LEVER HANDLE, ALTEK	1
2	GA5065680	PLUG, AS40 MALE, ALTEK	1
3	GA5065605	PLUG IN ADAPTER, AS40 X AS24, ALTEK	4
4	GA5065750	HOSE BARB, ELBOW, 90 DEGREE, AS24 FEMALE X 15MM HOSE, ALTEK	4
5	GA4552135	SPACER FOR ALTEK ROTARY VALVE	4
6	GA5011501	BOLT M8 X 120 ZP GR8.8	4
7	GA5004917	NUT M8 NYLOC ZP	4
8	GA5003643	WASHER 8MM FLAT SS HD	4
9	GA5065695	SAFETY PIN AS24	4
10	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS, ALTEK	5

## Chemical Pump Suction Valve - Dual Unit



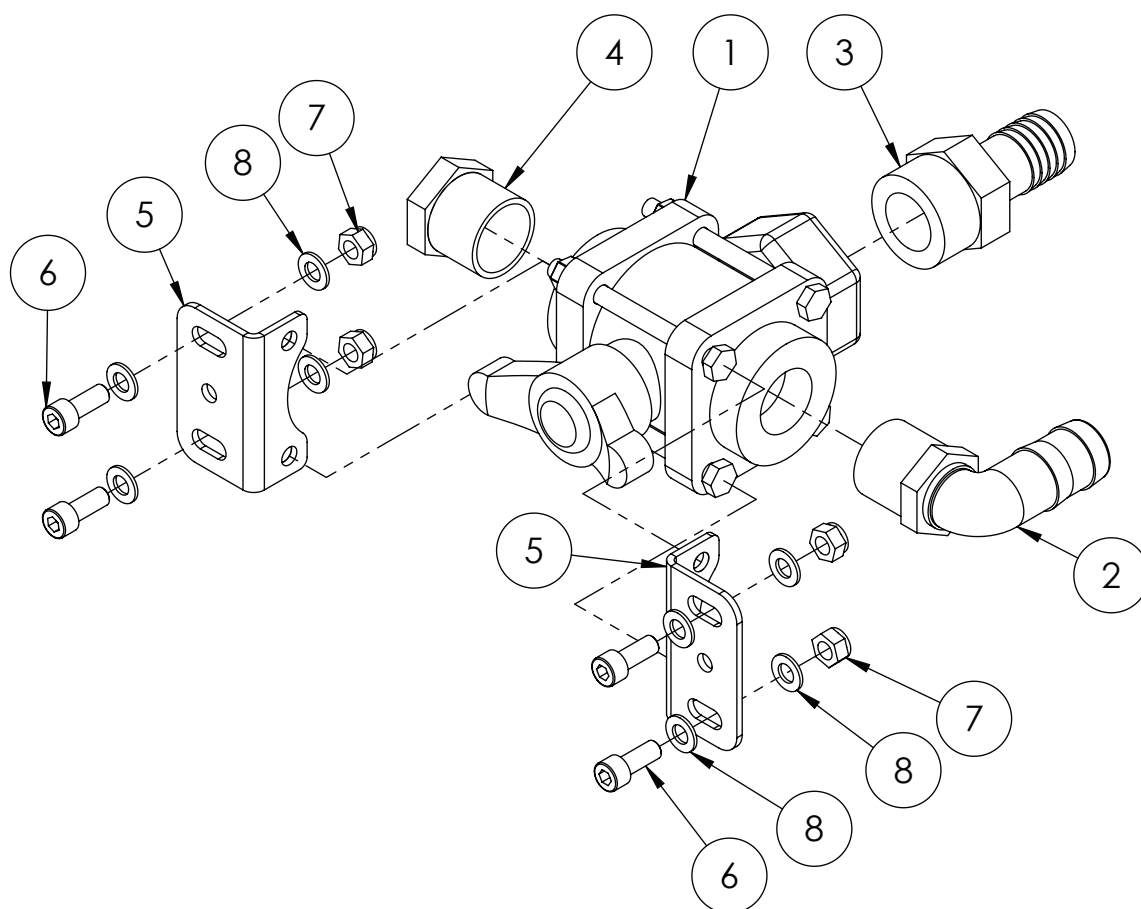
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078177	VALVE, BALL, 3 WAY, 1 FEMALE THREAD INLET / OUTLET, BOTTOM PORT, BUTTERFLY HANDLE, BANJO	1
2	GA5077719	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE THREAD X 3/4" HOSE	3
3	GA4502210	MOUNTING PLATE, TO SUIT BALL VALVE	1
4	GA5004707	SHCS M8 X 20 ZP GR12.9	2
5	GA5004917	NUT M8 NYLOC ZP	2
6	GA5003643	WASHER 8MM FLAT SS HD	4

## Chemical Pump Suction Valve - Third Unit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078177	VALVE, BALL, 3 WAY, 1 FEMALE THREAD INLET / OUTLET, BOTTOM PORT, BUTTERFLY HANDLE, BANJO	1
2	GA5077719	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE THREAD X 3/4" HOSE, BANJO	2
3	GA4502210	MOUNTING PLATE, TO SUIT BALL VALVE	2
4	GA5004917	NUT M8 NYLOC ZP	4
5	GA5003643	WASHER 8MM FLAT SS HD	8
6	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
7	GA5004711	BOLT M8 X 25 ZP GR8.8	4

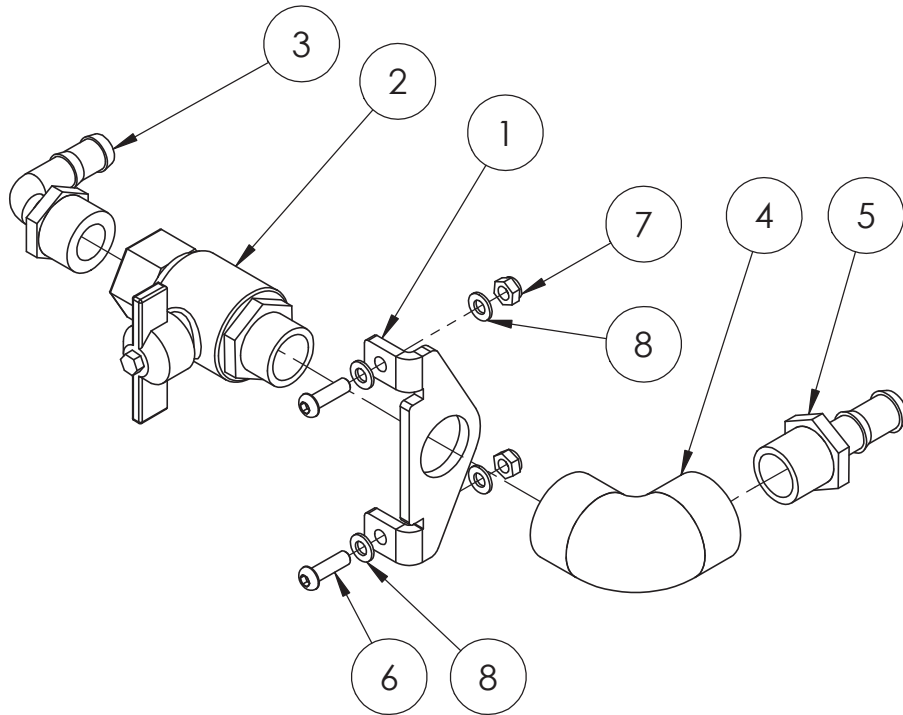
## Chemical Tank Vacuum Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078177	VALVE, BALL, 3 WAY, 1" FEMALE THREAD INLET / OUTLET, BOTTOM PORT, BUTTERFLY HANDLE, BANJO	1
2	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1
3	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE, BANJO	1
4	GA5077945	PLUG, 1" MALE THREAD, BANJO	1
5	GA4502210	MOUNTING PLATE, TO SUIT BALL VALVE	2
6	GA5004707	SHCS M8 X 20 ZP GR12.9	4
7	GA5004917	NUT M8 NYLOC ZP	4
8	GA5003643	WASHER 8MM FLAT SS HD	8

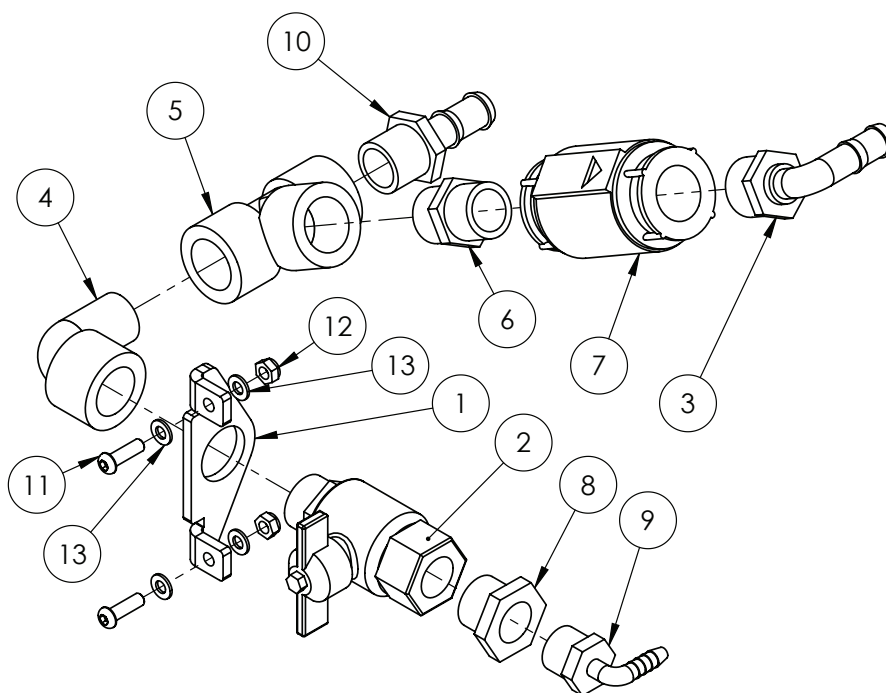


## Tank Rinse Ball Valve Assembly



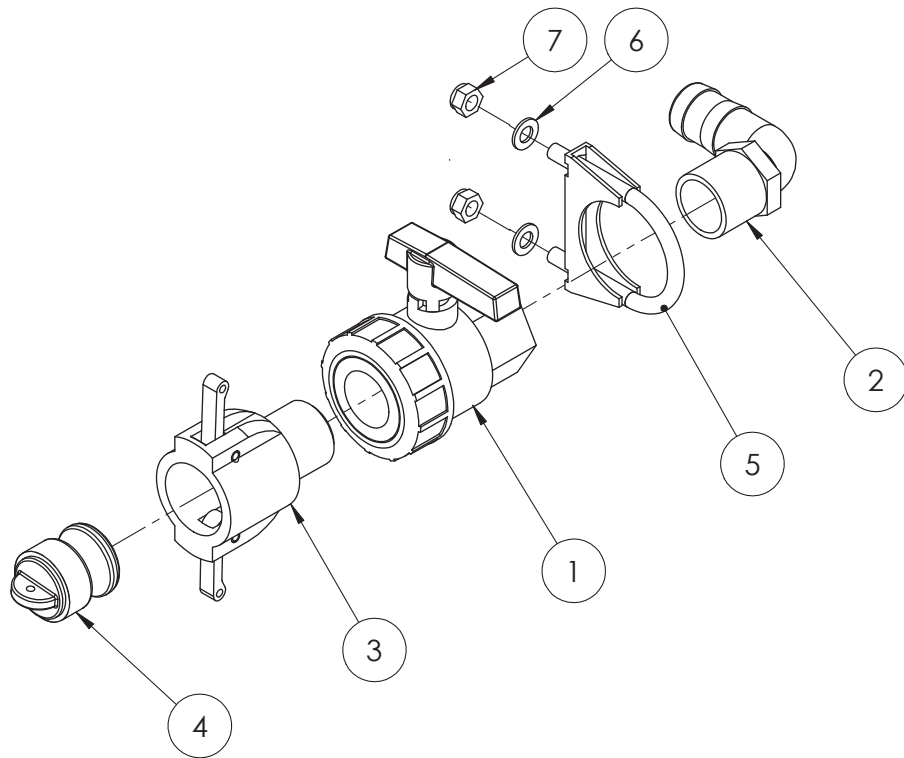
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70648A	TAP MOUNTING PLATE	1
2	GA5018315	VALVE, BALL, 20MM MALE & FEMALE THREAD, BLACK BUTTERFLY HANDLE	1
3	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	1
4	GA5077653	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD, BANJO	1
5	GA5077713	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 1/2" HOSE, BANJO	1
6	GA5004053	BHCS M6 X 20 SS A2-70	2
7	GA5048115	NUT M6 NYLOC ZP	2
8	GA5004437	WASHER 6MM FLAT SS	4
9	GA5001893	WASHER 1" X 1 7/8" X 14G	1

## Tank Vent Ball Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70648A	TAP MOUNTING PLATE	1
2	GA5018315	VALVE, BALL, 20MM MALE & FEMALE THREAD, BLACK BUTTERFLY HANDLE	1
3	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	1
4	GA5078135	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" MALE THREAD	1
5	GA5078150	TEE, THREADED, 3/4" FEMALE, BANJO	1
6	GA5078087	REDUCING NIPPLE, 3/4" MALE THREAD X 1/2" MALE THREAD	1
7	GA5051380	VALVE, CHECK, 1/2" FEMALE THREAD INLET / OUTLET, SS, 200 PSI MAXIMUM	1
8	GA5078010	REDUCING BUSH, 3/4" MALE THREAD X 1/2" FEMALE THREAD	1
9	GA5077656	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/4" HOSE	1
10	GA5077713	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 1/2" HOSE	1
11	GA5004053	BHCS M6 X 20 SS	2
12	GA5048115	NUT M6 NYLOC ZP	2
13	GA5004437	WASHER 6MM FLAT SS	4

## Chemical Probe Coupling Valve Assembly



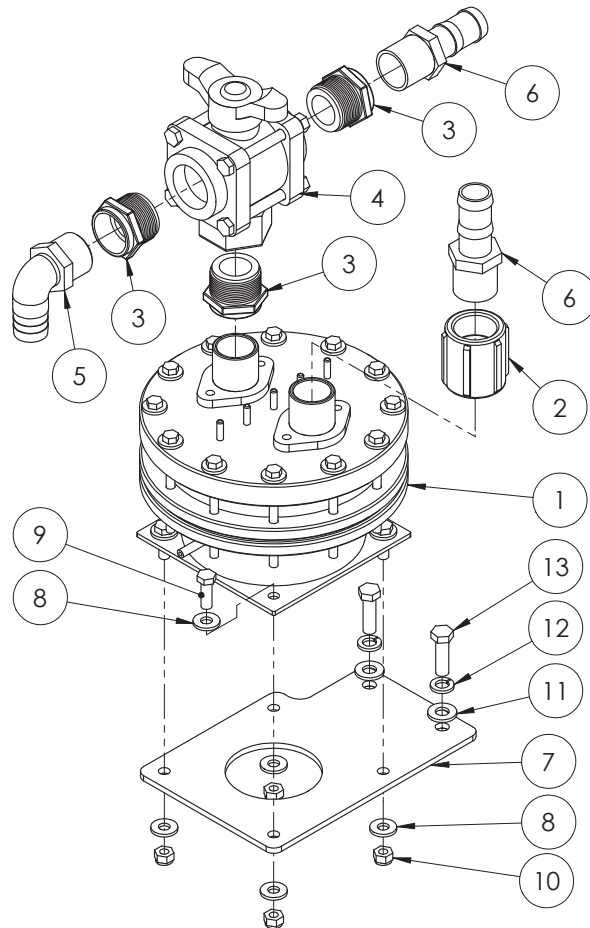
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078164	VALVE, BALL, 1 FEMALE THREAD INLET / OUTLET, FULL PORT, LEVER HANDLE	1
2	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1
3	GA5076007	CAM LEVER, 1" FEMALE COUPLER, 1" MALE THREAD, BANJO	1
4	GA5076013	CAM LEVER, MALE PLUG, 1", BANJO	1
5	GA5006705	EXHAUST CLAMP C8 2"	1
6	GA5003643	WASHER 8MM FLAT SS HD	2
7	GA5052590	NUT M8 NYLOC SS	2



# Chapter 7

## DUAL PRODUCT

### Ramsay Valve Assembly



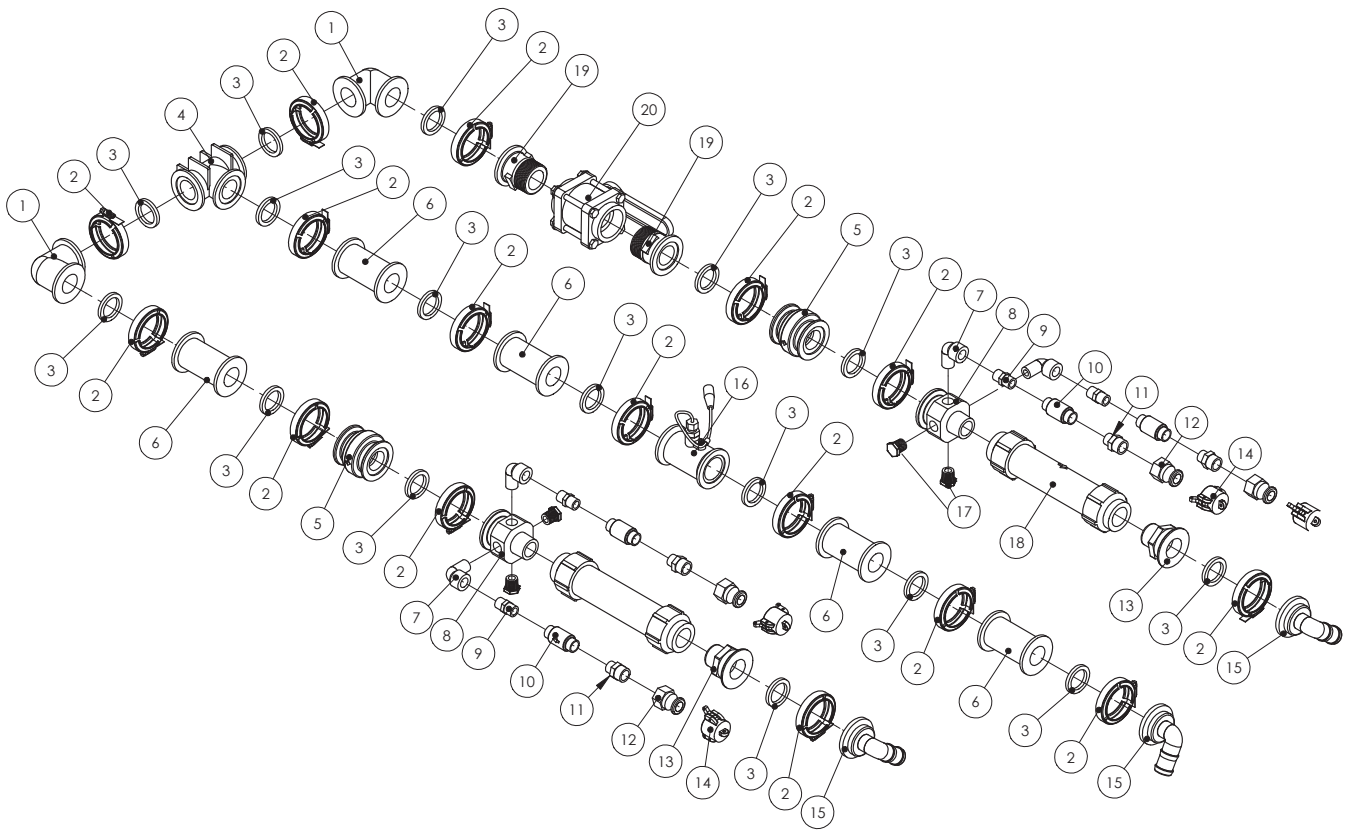
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5061045	REPLACEMENT DIAPHRAGM KIT	-
1	GA5010315	VALVE, PRESSURE REGULATING, HIGH PRESSURE 1 1/4", VITON SEALS, RAMSAY NOCTON	1
2	GA5077639	COUPLING, SOCKET, 1 1/4" FEMALE THREAD, BANJO	1
3	GA5078019	REDUCING BUSH, 1 1/2" MALE THREAD X 1 1/4" FEMALE THREAD	3
4	GA5078186	VALVE, BALL, 3 WAY, BOTTOM LOAD, 1 1/2" NPT FEMALE	1
5	GA5077730	HOSE BARB, ELBOW, 90 DEGREE, 1 1/4" MALE THREAD X 1 1/4" HOSE	1
6	GA5077724	HOSE BARB, STRAIGHT, 1 1/4" MALE THREAD X 1 1/4" HOSE, BANJO	2
7	GA4522105	RAMSAY VALVE CHASSIS MOUNT PLATE	1

Continued over page

## Ramsay Valve Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	GA5000117	WASHER 10MM FLAT SS HD	8
9	GA5065455	BOLT M10 X 30 ZP GR8.8	4
10	GA5000141	NUT M10 NYLOC ZP	4
11	GA5000577	WASHER 12MM FLAT SS HD	2
12	GA5000575	WASHER 12MM SPRING SS	2
13	GA5066895	BOLT M12 X 40 ZP GR8.8	2

## Dual Product & DCI Mixer



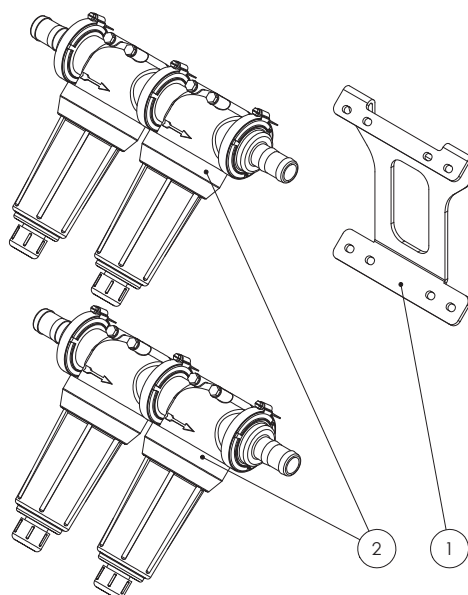
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077843	ELBOW, 90 DEGREE, SHORT, 2" FLANGE X 2" FLANGE, BANJO	2
2	FC200	CLAMP, WORM SCREW, USE WITH 2" STANDARD FLANGE PORT, BANJO	16
3	GA5009335	SEAL, 41.5 ID X 55 OD X 6.5MM THICK, EPDM, SUIT 1 1/2" FLANGE	16
4	GA5077854	2" FLANGED TEE FITTING	1
5	GA5077890	CHECK VALVE, 2" MANIFOLD FLANGE, BANJO	2
6	GA5077840	PLUMBING COUPLING, STRAIGHT, 2" FLANGE X 2" FLANGE X 4 1/2" LONG	5

Continued over page

## Dual Product & DCI Mixer

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
7	GA5078133	STREET ELBOW, 90 DEGREE, 1/2" FEMALE THREAD X 1/2" MALE THREAD	4
8	GA4572025	MANIFOLD, 2" FLANGE X 1 1/4" MALE THREAD X 1/2" FEMALE THREAD	2
9	GA5048310	NIPPLE, 1/2" THREAD X 1/2" THREAD, BRASS	4
10	GA5051380	VALVE, CHECK, 1/2" FEMALE THREAD INLET / OUTLET, SS, 200PSI MAXIMUM	4
11	GA5078087	REDUCING NIPPLE, 3/4" MALE THREAD X 1/2" MALE THREAD, BANJO	4
12	GA5077124	CAM LEVER, 3/4" MALE COUPLING X 3/4" FEMALE THREAD, BANJO	4
13	GA5077832	PLUMBING ADAPTOR, 2" FLANGE X 1 1/4" MALE THREAD, BANJO	2
14	GA5077131	CAM LEVER, FEMALE CAP, 3/4", BANJO	4
15	GA5077831	HOSE BARB, ELBOW, 90 DEGREE, 2" FLANGE X 1 1/4" HOSE, BANJO	3
16	GA5075873	FLOWMETER, RFM60P, RAVEN	1
17	GA5077943	PLUG, 1/2" MALE THREAD, BANJO	4
18	GA5075831	MIXER, FLOW ASSEMBLY SUIT DCI, 1 1/4" NPT, RAVEN	2
19	GA5077839	CONNECTOR, MANIFOLD, 2" BSP, MALE	2
20	GA5078188	VALVE, BOLTED, 2" FEMALE THREAD INLET / OUTLET, LEVER HANDLE	1

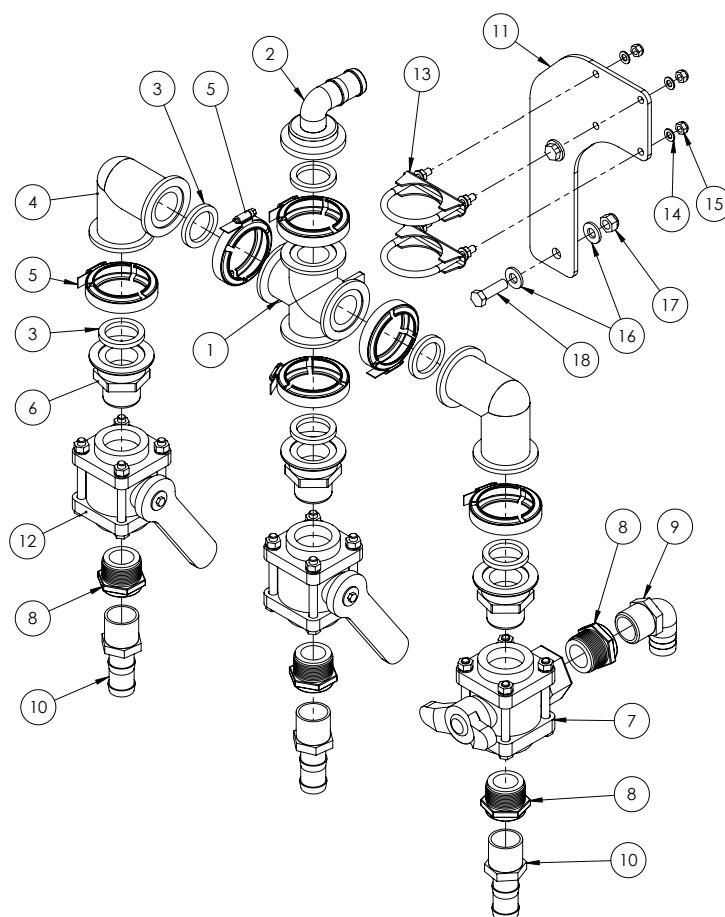
## Dual Pressure Filters



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657155	DUAL PRESSURE FILTER MOUNT	1
2	^	DUAL PRESSURE FILTER ASSEMBLY	2

^ See Chapter 19 'Plumbing' for sub-assembly.

## Dual Product Manifold



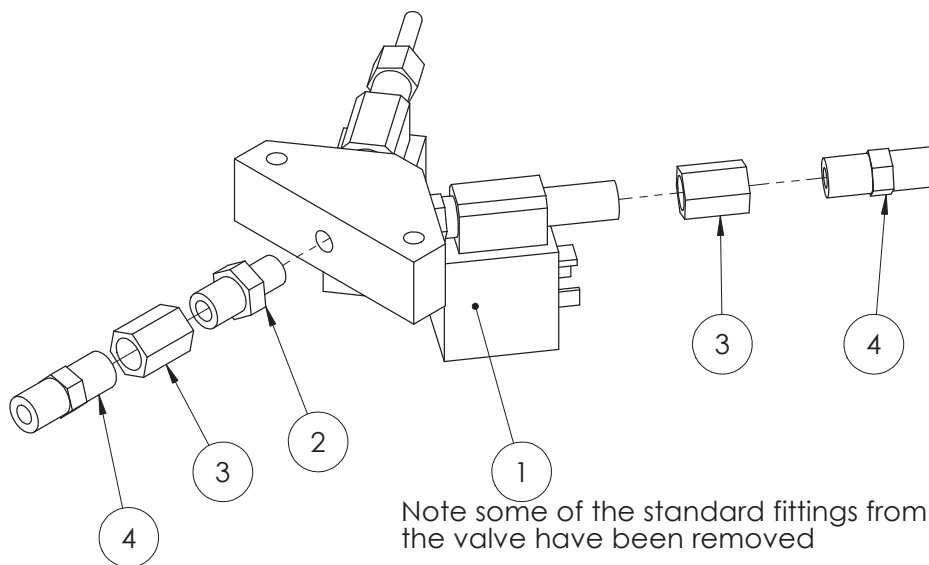
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077844	2" FLANGED CROSS	1
2	GA5077831	HOSE BARB, ELBOW, 90 DEGREE, 2" FLANGE X 1 1/4" HOSE, BANJO	1
3	GA5009335	SEAL, 41.5 ID X 55 OD X 6.5MM THICK, EPDM, SUIT 1 1/2" FLANGE	6
4	GA5077842	ELBOW, 90 DEGREE, 2" FLANGE X 2" FLANGE, BANJO	2
5	FC200	CLAMP, WORM SCREW, USE WITH 2" STANDARD FLANGE PORT, BANJO	6
6	GA5077835	PLUMBING COUPLING, 2" FLANGE X 1 1/2" MALE THREAD, BANJO	3
7	GA5078186	VALVE, BALL, 3 WAY, BOTTOM LOAD, 1 1/2" NPT FEMALE	1
8	GA5078019	REDUCING BUSH, 1 1/2" MALE THREAD X 1 1/4" FEMALE THREAD, BANJO	4
9	GA5077730	HOSE BARB, ELBOW, 90 DEGREE, 1 1/4" MALE THREAD X 1 1/4" HOSE	1
10	GA5077724	HOSE BARB, STRAIGHT, 1 1/4" MALE THREAD X 1 1/4" HOSE, BANJO	3
11	GA4514310	DUAL PRODUCT VALVE MOUNT , SUIT H-FRAME	1

Continued over page



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	GA5078185	VALVE, BALL, 1 1/2" FEMALE THREADED INLET / OUTLET, FULL PORT, LEVER HANDLE	2
13	GA5006689	CLAMP EXHAUST 2 5/8" (C12)	2
14	GA5003643	WASHER 8MM FLAT SS HD	4
15	GA5052590	NUT M8 NYLOC SS	4
16	GA5000577	WASHER 12MM FLAT SS HD	4
17	GA5012461	NUT M12 NYLOC ZP	2
18	GA5066895	BOLT M12 X 40 ZP GR8.8	2

## Twin Solenoid Assembly



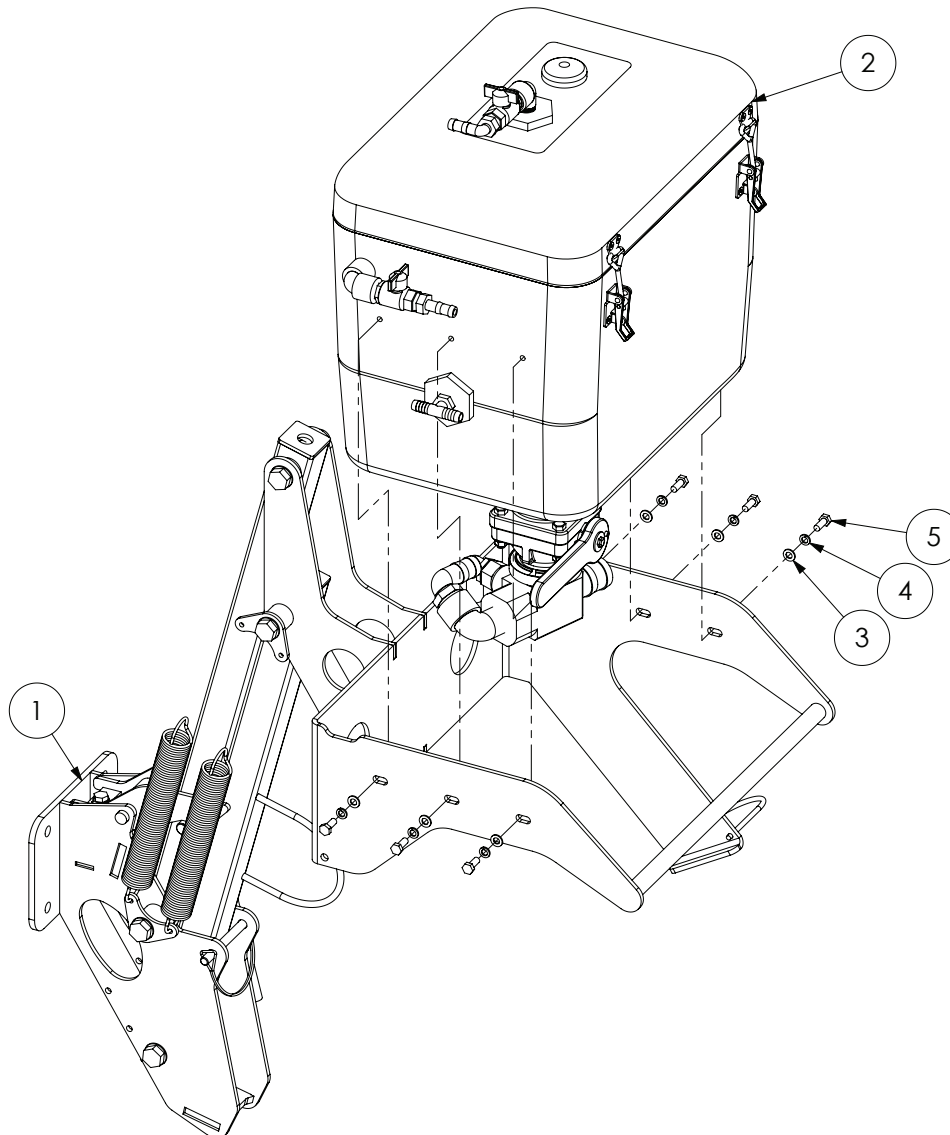
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5061055	RAMSAY TWIN SOLENOID VALVE ASSEMBLY	1
2	GA5013809	REDUCING NIPPLE 1/4" X 1/8"	1
3	GA5066940	SOCKET, 1/4" FEMALE THREAD, HEX, BRASS	2
4	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSP X 1/4" BSP	2



## Chapter 8

# INDUCTION HOPPER

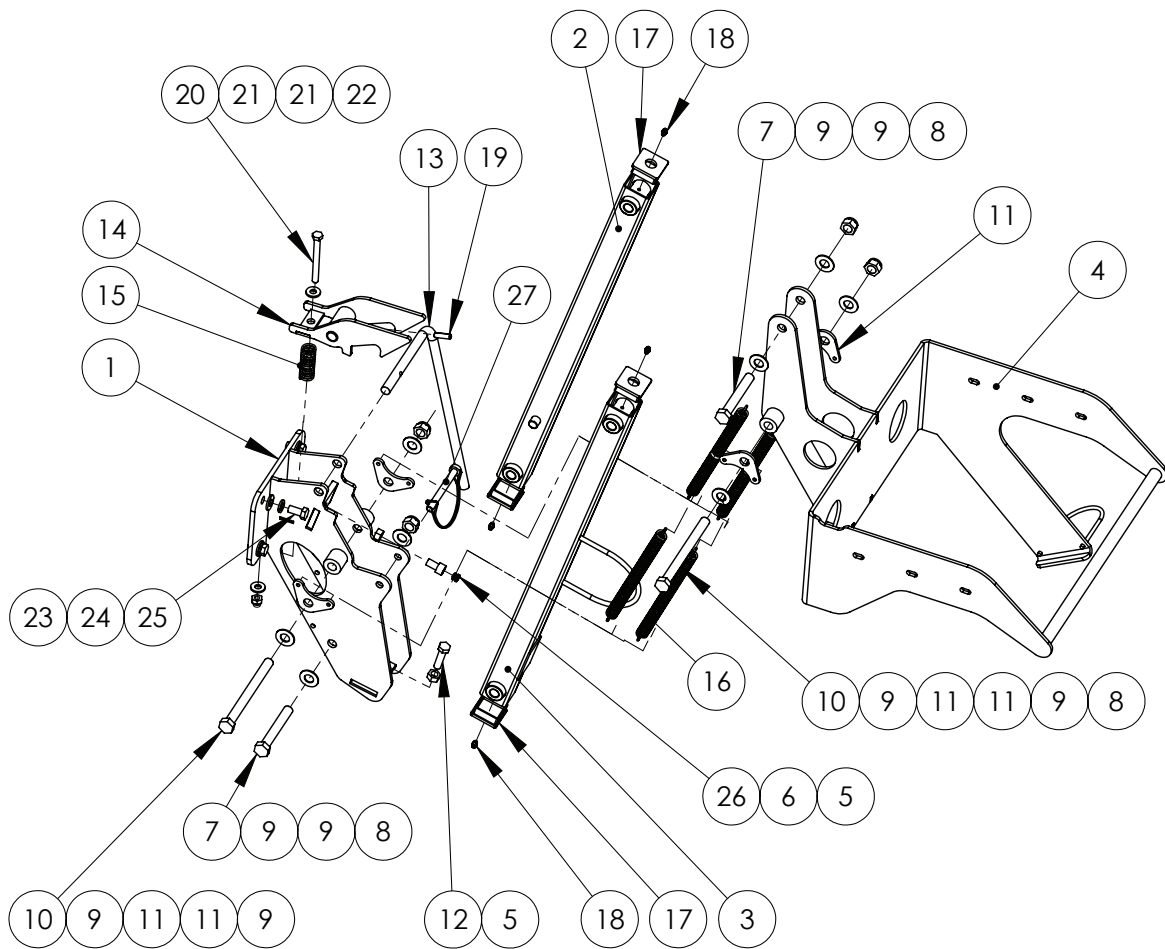
## Induction Hopper - 60L



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	INDUCTION HOPPER - FRAME ASSEMBLY	1
2	*	INDUCTION HOPPER - TANK ASSEMBLY	1
3	GA5003643	WASHER 8MM HD	6
4	GA5004919	WASHER 8MM SPRING SS	6
5	GA5004085	BOLT M8 X 20 GR8.8 ZP	6

\* Sub-assembly on following pages

## Induction Hopper - Frame Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653420	INDUCTION HOPPER CHASSIS MOUNT ADVANCE	1
2	GA4653440	INDUCTION HOPPER ARM UPPER ADVANCE	1
3	GA4653445	INDUCTION HOPPER ARM LOWER ADVANCE	1
4	GA4656855	INDUCTION HOPPER TANK SUPPORT 60L SUIT EF RANGE	1
5	GA5000559	NUT M12 HEX ZP	2
6	GA5050330	SHCS M12 X 20 ZP GR12.9	1
7	GA5000855	BOLT M16 X 110 GR8.8 ZP	2
8	GA5001029	NUT M16 NYLOC ZP	4
9	GA5001043	WASHER 16MM FLAT SS HD	8
10	GA5000879	BOLT M16 X 180 GR8.8 ZP	2
11	GA4522294	MOUNTING PLATE, DOUBLE INDUCTION HOPPER SPRING	4
12	GA5000327	SET SCREW M12 X 45 GR8.8 ZP	1
13	GA4699435	HANDLE, INDUCTION HOPPER LATCH ARM	1
14	GA4653490	INDUCTION HOPPER LATCH ADVANCE	1
15	GA5007329	SPRING COMPRESSION, 76.2MM X 25.4 X 3.15MM, GOLD	1
16	GA5007073	SPRING, TENSION, 38.2 OD X 284.3 LONG X 3.55MM	4
17	GA5003783	END CAP, INSERT, BLACK, PLASTIC, 50 X 50 MM	4

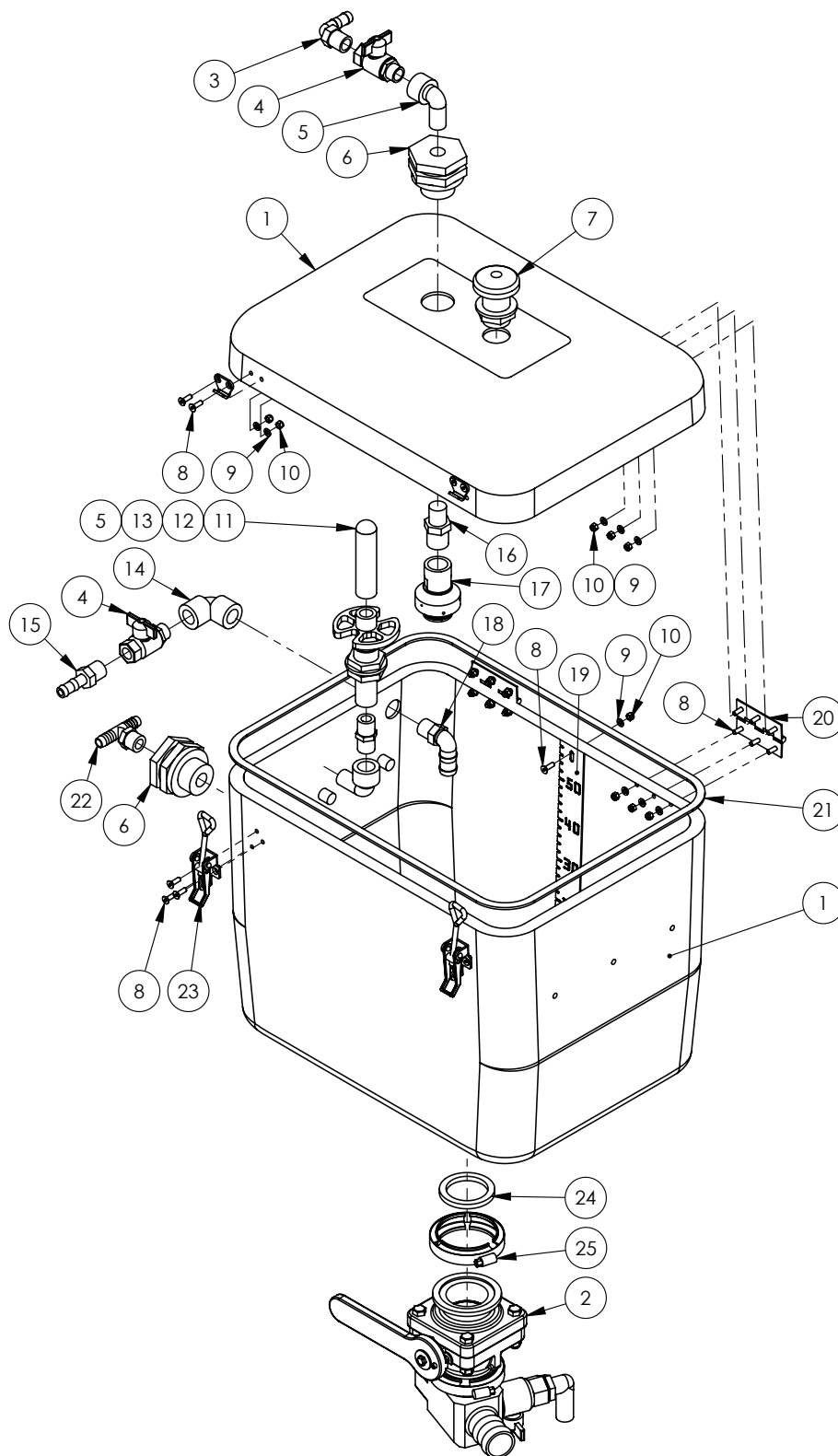
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## Induction Hopper - Frame Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	4
19	GA5075130	ROLL PIN M8 X 30MM COATED	1
20	GA5006091	BOLT M10 X 100 GR8.8 ZP	1
21	GA5000117	WASHER 10MM FLAT SS HEAVY DUTY	2
22	GA5000141	NUT M10 NYLOC ZP	1
23	GA5000577	WASHER 12MM FLAT SS HD	4
24	GA5000575	WASHER 12MM SPRING SS	4
25	GA5011229	BOLT M12 X 25 GR8.8 ZP	4
26	GA5052905	INSERT, SUIT 12MM HOLE, BLACK, PLASTIC	1
27	GA5048380	PIN, 11MM OD SHAFT, SPRING STEEL WIRE LOOP LOCK, YELLOW ZINC	1

## Induction Hopper - Tank Assembly

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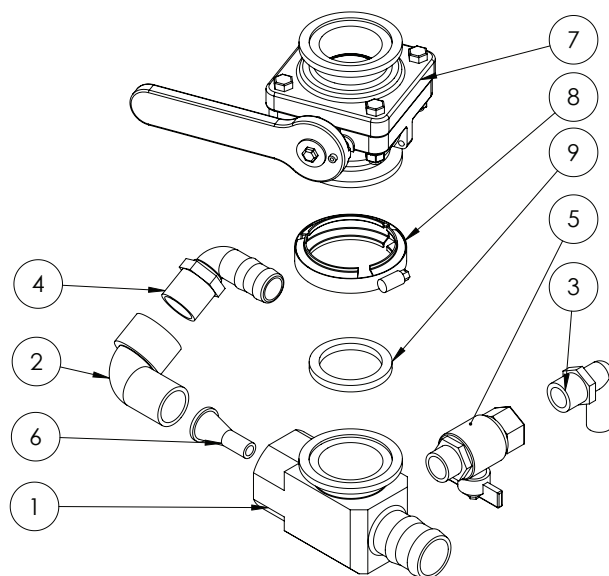
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## Induction Hopper - Tank Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5071208	TANK, INDUCTION HOPPER, 60L WITH FLANGE, INCLUDES LID	1
2	*	PRE-ASSEMBLED 60L HOPPER BOTTOM 2" FLANGED	1
3	GA5077708	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 1/2" HOSE	1
4	GA5020615	VALVE, BALL, 12MM, 1/2" MALE, FEMALE BUTTERFLY, BRASS	2
5	GA5078133	STREET ELBOW, 90 DEGREE, 1/2" FEMALE THREAD X 1/2" MALE THREAD	2
6	GA5078156	TANK FLANGE, 1/2" FEMALE THREADS	2
7	GA5077045	BREATHER VALVE, LABYRINTH TYPE, 1" MALE THREAD	1
8	GA5051230	CSCS M5 X 16 SS A2-70	23
9	GA5003983	WASHER 5MM FLAT SS	23
10	GA5003975	NUT M5 NYLOC SS	23
11	GA5077063	NOZZLE, DRUM & CONTAINER RINSING	1
12	GA5077062	VALVE, DRUM & CONTAINER RINSING NOZZLE	1
13	GA5077911	NIPPLE, SHORT, 1/2" MALE THREAD X 1/2" MALE THREAD	1
14	GA5077652	STREET ELBOW, 90 DEGREE, 1/2" FEMALE THREAD	1
15	GA5077702	HOSE BARB, STRAIGHT, 1/2" MALE THREAD X 1/2" HOSE	1
16	RN075050	REDUCING NIPPLE, 3/4" MALE THREAD X 1/2" MALE THREAD	1
17	GA5077336	NOZZLE, TANK RINSING, 3/4" BSPT FEMALE INLET	1
18	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 3/4" HOSE	1
19	GA4522296	LEVEL INDICATOR, 60L INDUCTION HOPPER	1
20	GA5006661	HINGE, BUTT, 70 LONG X 50 WIDE X 1.5, SS	2
21	GA5016473	TAPE PM FOAM 6.4 X 18 L/DENSITY	1
22	GA3500391	TEE, THREADED, 1/2" MALE X 1/2" HOSE, T12T	1
23	GA5007071	LATCH, ADJUSTABLE, INDUCTION HOPPER LID	2
24	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING	1
25	FC220	2" FULL PORT WORM SCREW CLAMP	1

\* Sub-assembly on following pages

## Hopper Bottom - 2" Flanged



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4552240	HOPPER BOTTOM VENTURI HOUSING WITH 2" FLANGE	1
2	GA5078137	STREET ELBOW, 90 DEGREE, 1" MALE X 1" FEMALE, BANJO	1
3	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
4	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1
5	GA5018315	VALVE, BALL, 20MM MALE & FEMALE THREAD, BLACK BUTTERFLY HANDLE	1
6	L057A	VENTURI, 9MM OUTLET, SUIT INDUCTION HOPPER	1
7	GA5077908	BALL VALVE, 2" FULL PORT , 4 BOLT FLANGED, SHORT, BANJO	1
8	FC220	2" FULL PORT WORM SCREW CLAMP	1
9	GA5076615	SEAL, EPDM, SUIT 2" FLANGE FITTING, BANJO	1



## Chapter 9

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### FOAM MARKER

Not Fitted

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## Chapter 10

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TRANSCAL

Not Fitted

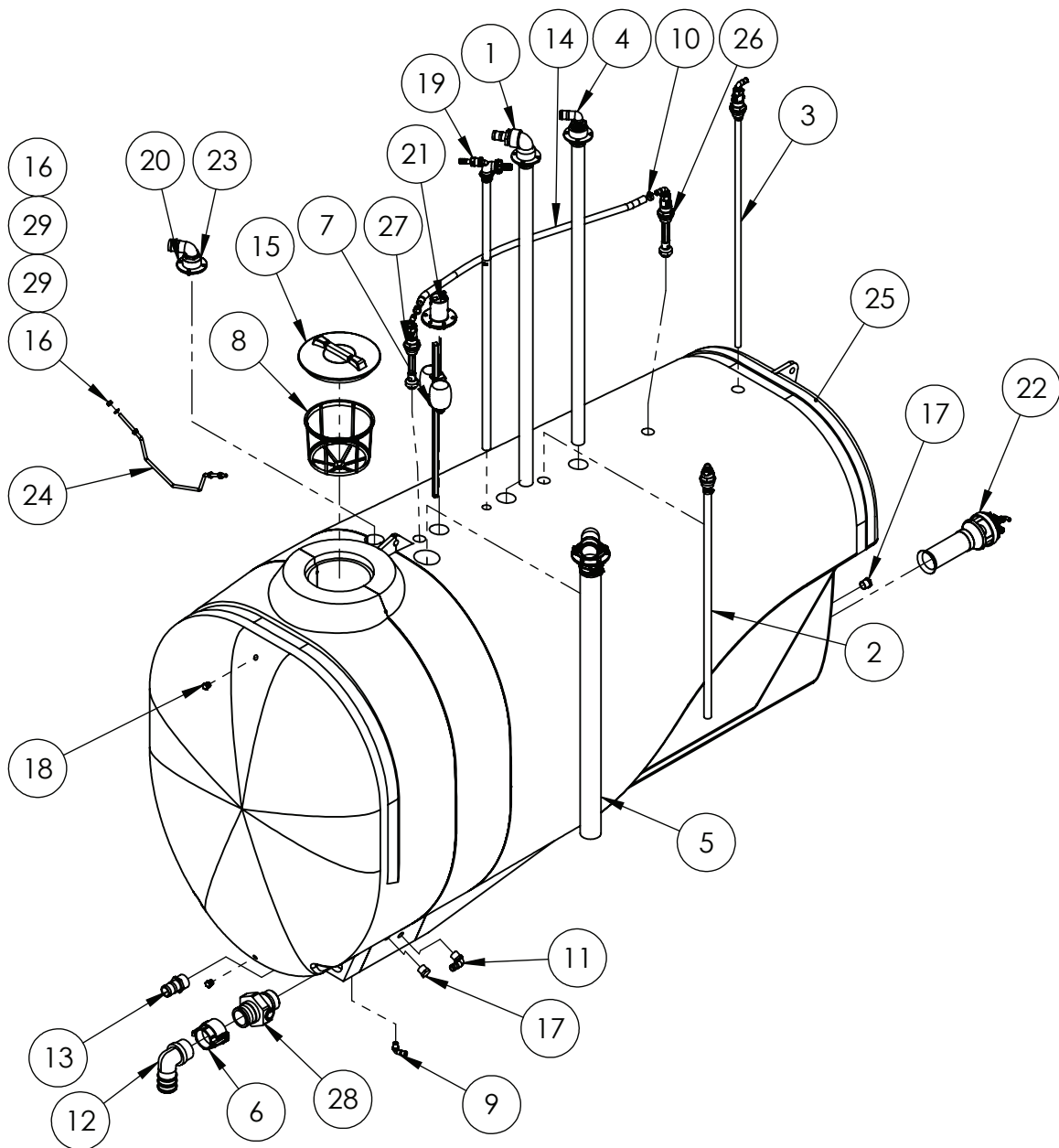
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# Chapter II

## MAIN TANK

### Tank Assembly - 5000L



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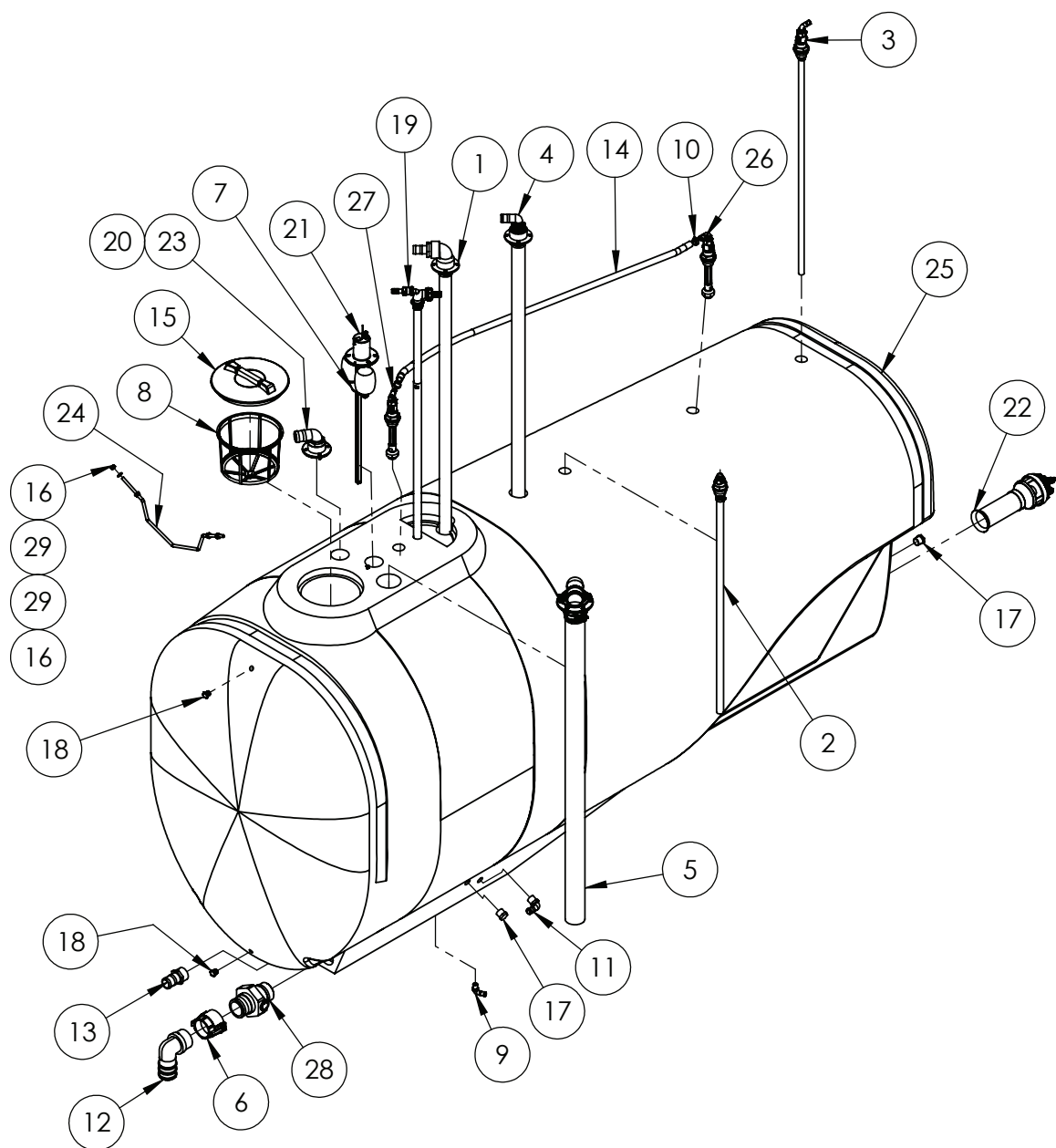
## Tank Assembly - 5000L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	ASSEMBLY DRAWING ONLY, HOPPER TANK INLET, C/W, 1700MM HOSE	1
2	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 1", C/W 1400MM HOSE	1
3	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 3/4", C/W 1200MM HOSE	1
4	*	ASSEMBLY DRAWING ONLY, 2", TANK FILL, C/W 1600MM HOSE	1
5	*	ASSEMBLY DRAWING ONLY, 3" FILL ASSY, C/W 1400MM HOSE	1
6	GA5076720	CAM LEVER, 3" FEMALE COUPLING X 3" FEMALE NSPT THREAD, BANJO, 300D	1
7	GA4905415	TWIN FLOAT, SUIT DRY SIGHT TUBE, PRE ASSEMBLED	1
8	GA5075714	SELECTOR COVER "CB/SB/ZX", 020839	1
9	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2 MALE THREAD X 3/4 HOSE, BANJO, HB050/075-90	1
10	GA5000999	HOSE CLAMP, 3/4" SS (16-27/12W)	2
11	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO, HB100-90	1
12	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3 MALE THREAD X 3 HOSE, BANJO, HB300-90	1
13	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE, BANJO, HB200	1
14	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI, HOS20P, CUT TO 1400MM	1
15	GA5076877	LID, BLACK PLASTIC, DIAMETER 355, WITH BREATHER, 3522040	1
16	GA5000581	NUT M12 HEX SS	4
17	GA5077945	PLUG, 1 MALE THREAD, BANJO, PLUG100	2
18	GA5077943	PLUG, 1/2 MALE THREAD, BANJO, PLUG050	2
19	GA4903086	VENTURI FILLER, PRE ASSEMBLED, TO MOUNT IN TOP OF TANK	1
20	GA5000527	SCREW PAN HEAD 12G X 25MM SS	10
21	GA4902148	LOCATING CAP ASSEMBLY, DRY SIGHT TUBE	1
22	GA4903096	SUPER MIX AGITATOR, PRE ASSEMBLED, STRAIGHT BARB	1
23	GA4904825	TANK OVERFLOW OUTLET, 2"	1
24	GA4672885	BAR, TANK LID OPENING SUPPORT, SUIT EF TANKS	1
25	GA5070030	TANK, 5000L, PRAIRIE ADVANCE EF, BARE.	1
26	GA4901285-1	TANK FLUSHING NOZZLE (ELBOW) CAM ADAPTOR	1
27	GA4901285-2	TANK RINSING NOZZLE, ASSEMBLY WITH TEE CAM ADAPTOR	1
28	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE, BANJO, VSFMT300	1
29	GA5000577	WASHER M12 FLAT SS HD	4

\* Sub-assembly on following pages

## Tank Assembly - 6500L

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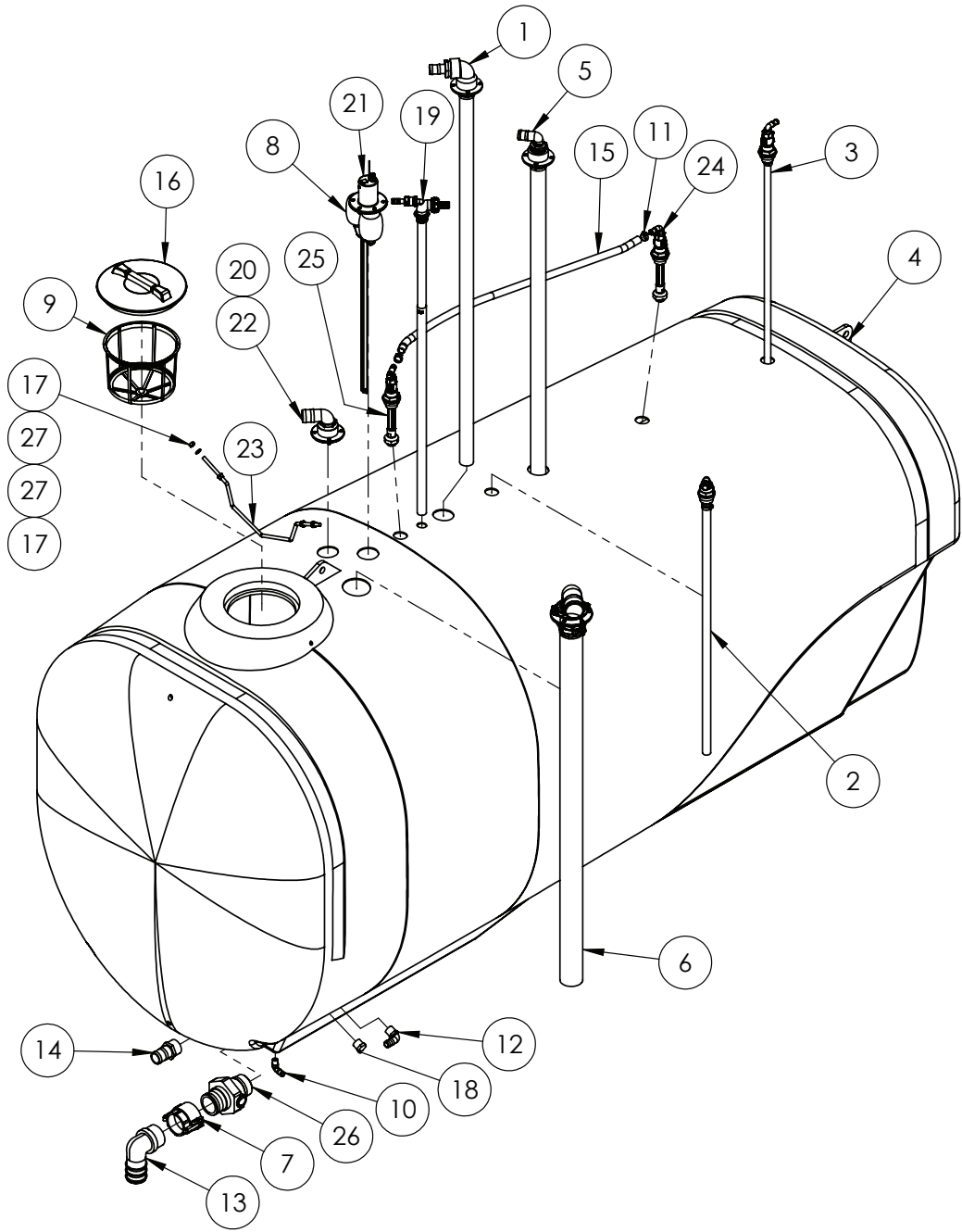
## Tank Assembly - 6500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	ASSEMBLY DRAWING ONLY, HOPPER TANK INLET, C/W 1800MM HOSE	1
2	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 1", C/W 1400MM HOSE	1
3	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 3/4", C/W 1200MM HOSE	1
4	*	ASSEMBLY DRAWING ONLY, 2" TANK FILL, , C/W 1700MM HOSE	1
5	*	ASSEMBLY DRAWING ONLY, 3" FILL ASSY, C/W 1700MM HOSE	1
6	GA5076720	CAM LEVER, 3" FEMALE COUPLING X 3" FEMALE NSPT THREAD, BANJO, 300D	1
7	GA4905415	TWIN FLOAT, SUIT DRY SIGHT TUBE, PRE ASSEMBLED	1
8	GA5076714	FILTER, BASKET TYPE, DIAMETER 305 X 245MM DEEP, SUIT MAIN SPRAY TANK, 300120	1
9	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2 MALE THREAD X 3/4 HOSE, BANJO, HB050/075-90	1
10	GA5000999	HOSE CLAMP, 3/4" SS (16-27/12W)	2
11	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO, HB100-90	1
12	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3 MALE THREAD X 3 HOSE, BANJO, HB300-90	1
13	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE, BANJO, HB200	1
14	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI, HOS20P, CUT TO 1850MM	1
15	GA5076877	LID, BLACK PLASTIC, DIAMETER 355, WITH BREATHER, 3522040	1
16	GA5000581	NUT M12 HEX SS	4
17	GA5076877	LID, BLACK PLASTIC, DIAMETER 355, WITH BREATHER, 3522040	2
18	GA5077943	PLUG, 1/2 MALE THREAD, BANJO, PLUG050	2
19	GA4903086	VENTURI FILLER, PRE ASSEMBLED, TO MOUNT IN TOP OF TANK	1
20	GA5000527	SCREW PAN HEAD 12G X 25MM SS	11
21	GA4902148	LOCATING CAP ASSEMBLY, DRY SIGHT TUBE	1
22	GA4903096	SUPER MIX AGITATOR, PRE ASSEMBLED, STRAIGHT BARB	1
23	GA4904825	TANK OVERFLOW OUTLET, 2"	1
24	GA4672885	BAR, TANK LID OPENING SUPPORT, SUIT EF TANKS	1
25	GA5070100	TANK, 6500L, PRAIRIE ADVANCE EF, BARE	1
26	GA4901285-1	TANK FLUSHING NOZZLE (ELBOW) CAM ADAPTOR	1
27	GA4901285-2	TANK RINSING NOZZLE, ASSEMBLY WITH TEE CAM ADAPTOR	1
28	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE, BANJO, VSFMT300	1
29	GA5000577	WASHER M12 FLAT SS HD	4

\* Sub-assembly on following pages



# Tank Assembly - 7500L



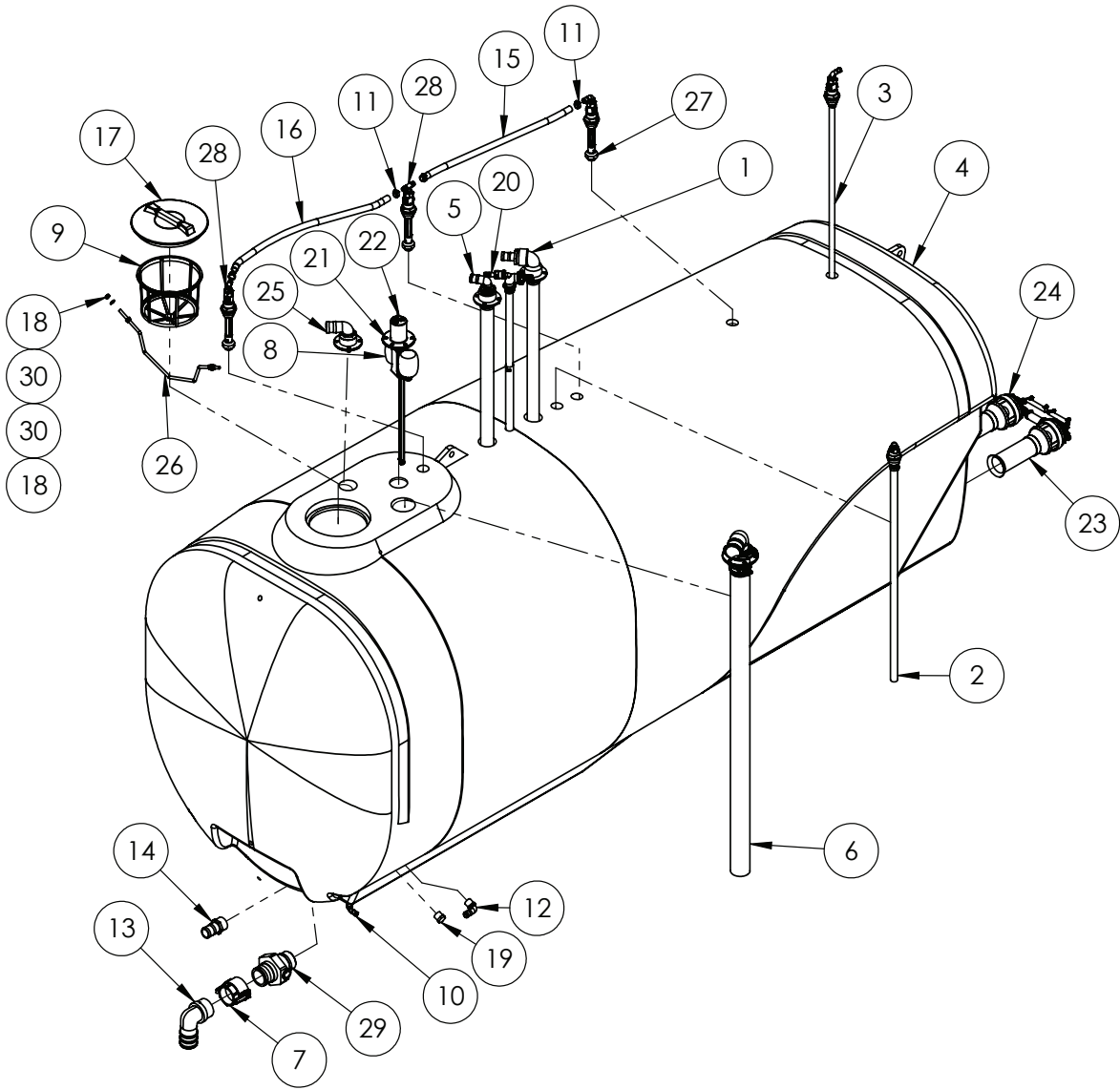
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## Tank Assembly - 7500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	ASSEMBLY DRAWING ONLY, HOPPER TANK INLET, C/W 1800MM HOSE	1
2	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 1", C/W 1400MM HOSE	1
3	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 3/4", C/W 1200MM HOSE	1
4	GA5070280	TANK, 7500L, EF WITH WHEEL CUT OUTS, BARE	1
5	*	ASSEMBLY DRAWING ONLY, 2", TANK FILL, C/W 1700MM HOSE	1
6	*	ASSEMBLY DRAWING ONLY, 3" FILL ASSY, C/W 1700MM HOSE	1
7	GA5076720	CAM LEVER, 3" FEMALE COUPLING X 3" FEMALE NSPT THREAD, BANJO, 300D	1
8	GA4905415	TWIN FLOAT, SUIT DRY SIGHT TUBE, PRE ASSEMBLED	1
9	GA5076714	FILTER, BASKET TYPE, DIAMETER 305 X 245MM DEEP, SUIT MAIN SPRAY TANK, 300120	1
10	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2 MALE THREAD X 3/4 HOSE, BANJO, HB050/075-90	1
11	GA5000999	HOSE CLAMP, 3/4" SS (16-27/12W)	2
12	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO, HB100-90	1
13	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3 MALE THREAD X 3 HOSE, BANJO, HB300-90	1
14	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE, BANJO, HB200	1
15	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI, HOS20P, CUT TO 1300MM	1
16	GA5076877	LID, BLACK PLASTIC, DIAMETER 355, WITH BREATHER, 3522040	1
17	GA5000581	NUT M12 HEX SS	4
18	GA5077945	PLUG, 1 MALE THREAD, BANJO, PLUG100	1
19	GA4903086	VENTURI FILLER, PRE ASSEMBLED, TO MOUNT IN TOP OF TANK	1
20	GA5000527	SCREW PAN HEAD 12G X 25MM SS	10
21	GA4902148	LOCATING CAP ASSEMBLY, DRY SIGHT TUBE	1
22	GA4904825	TANK OVERFLOW OUTLET, 2"	1
23	GA4672885	BAR, TANK LID OPENING SUPPORT, SUIT EF TANKS	1
24	GA4901285-1	TANK FLUSHING NOZZLE (ELBOW) CAM ADAPTOR	1
25	GA4901285-2	TANK RINSING NOZZLE, ASSEMBLY WITH TEE CAM ADAPTOR	1
26	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE, BANJO, VSFMT300	1
27	GA5000577	WASHER M12 FLAT SS HD	4

\* Sub-assembly on following pages

# Tank Assembly - 8500L



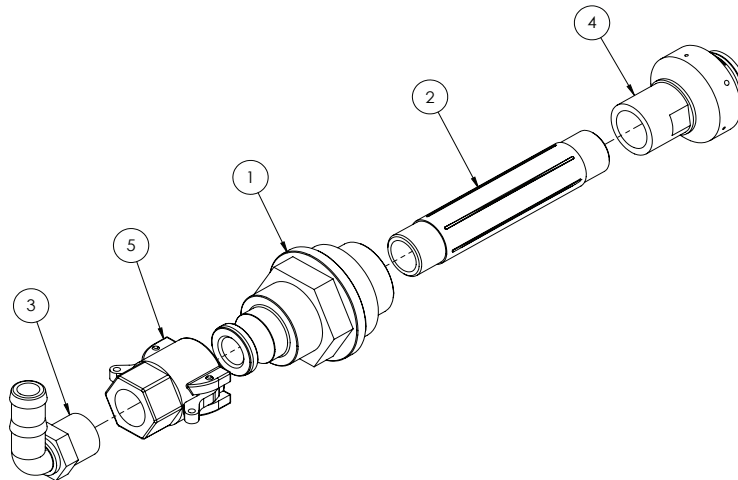
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## Tank Assembly - 8500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	ASSEMBLY DRAWING ONLY, HOPPER TANK INLET, C/W 1800MM HOSE	1
2	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 1", C/W 1400MM HOSE	1
3	*	ASSEMBLY DRAWING ONLY, TANK, INLET, 3/4", C.W 1200MM HOSE	1
4	GA5070285	TANK, 8500L, EF WITH WHEEL CUT OUTS, BARE	1
5	*	ASSEMBLY DRAWING ONLY, 2" TANK FILL, C/W 1700MM HOSE	1
6	*	ASSEMBLY DRAWING ONLY, 3" FILL ASSY, C/W 1700MM HOSE	1
7	GA5076720	CAM LEVER, 3" FEMALE COUPLING X 3" FEMALE NSPT THREAD, BANJO, 300D	1
8	GA4905415	TWIN FLOAT, SUIT DRY SIGHT TUBE, PRE ASSEMBLED	1
9	GA5076714	FILTER, BASKET TYPE, DIAMETER 305 X 245MM DEEP, SUIT MAIN SPRAY TANK, 300120	1
10	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2 MALE THREAD X 3/4 HOSE, BANJO, HB050/075-90	1
11	GA5000999	HOSE CLAMP, 3/4" SS (16-27/12W)	4
12	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO, HB100-90	1
13	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3 MALE THREAD X 3 HOSE, BANJO, HB300-90	1
14	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE, BANJO, HB200	1
15	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI, HOS20P, CUT TO 950MM	1
16	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI, HOS20P, CUT TO 975MM	1
17	GA5076877	LID, BLACK PLASTIC, DIAMETER 355, WITH BREATHER, 3522040	1
18	GA5000581	NUT M12 HEX SS	4
19	GA5077945	PLUG, 1 MALE THREAD, BANJO, PLUG100	1
20	GA4903086	VENTURI FILLER, PRE ASSEMBLED, TO MOUNT IN TOP OF TANK	1
21	GA5000527	SCREW PAN HEAD 12G X 25MM SS	10
22	GA4902148	LOCATING CAP ASSEMBLY, DRY SIGHT TUBE	1
23	GA4908705	SUPER MIX AGITATOR ASSEMBLY, NO BYPASS FITTING	1
24	GA4908705	SUPER MIX AGITATOR ASSEMBLY, NO BYPASS FITTING	1
25	GA4904825	TANK OVERFLOW OUTLET, 2"	1
26	GA4672885	BAR, TANK LID OPENING SUPPORT, SUIT EF TANKS	1
27	GA4901285-1	TANK FLUSHING NOZZLE (ELBOW) CAM ADAPTOR	1
28	GA4901285-2	TANK RINSING NOZZLE, ASSEMBLY WITH TEE CAM ADAPTOR	2
29	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE, BANJO, VSFMT300	1
30	GA5000577	WASHER M12 FLAT SS HD	4

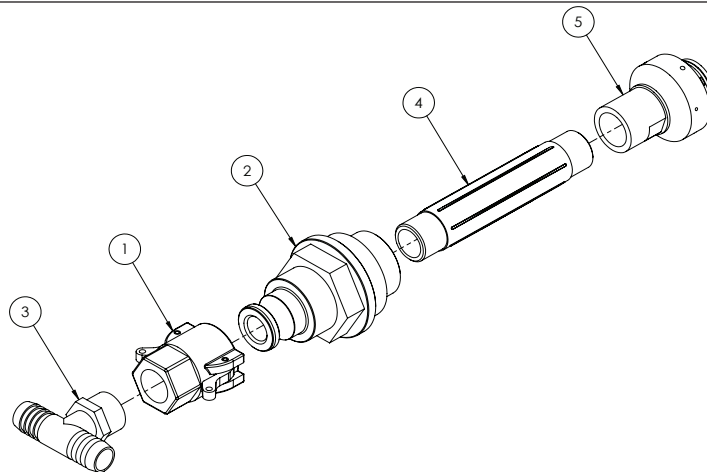
\* Sub-assembly on following pages

## Tank Rinsing Nozzle, Elbow - Assembly



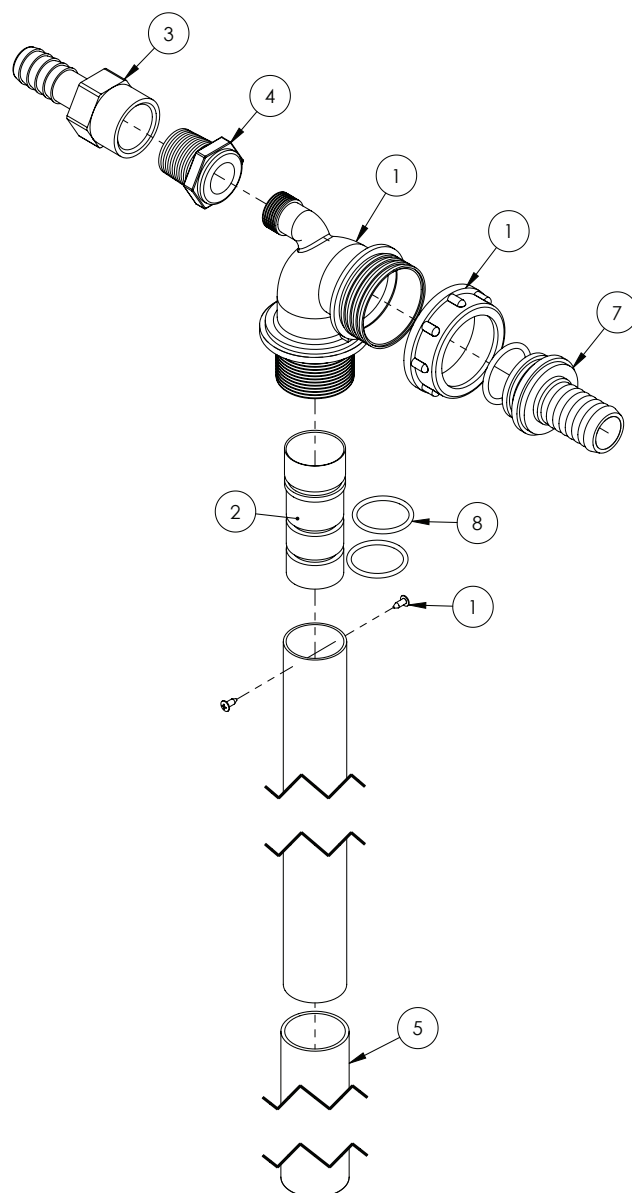
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4901285-1	TANK RINSING NOZZLE, ELBOW, COMPLETE	-
1	GA4572015	TANK RINSE ADAPTOR WITH CAM LOCK	1
2	GA5077912	NIPPLE, 6" LONG, 3/4" MALE THREAD, BANJO	1
3	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
4	GA5077336	NOZZLE, TANK RINSING, 3/4" BSPT FEMALE INLET, TEEJET	1
5	GA5077132	CAM LEVER, 3/4" FEMALE COUPLING X 3/4" HOSE BARB, BANJO	1

## Tank Rinsing Nozzle, Tee - Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4901285-2	TANK RINSING NOZZLE, TEE, COMPLETE	-
1	GA5077132	CAM LEVER, 3/4" FEMALE COUPLING X 3/4" HOSE BARB, BANJO	1
2	GA4572015	TANK RINSE ADAPTOR WITH CAM LOCK	1
3	GA3500431	HOSE BARB, TEE, 3/4" HOSE BARB X 3/4" HOSE BARB X 3/4" MALE THREAD	1
4	GA5077912	NIPPLE, 6" LONG, 3/4" MALE THREAD, BANJO	1
5	GA5077336	NOZZLE, TANK RINSING, 3/4" BSPT FEMALE INLET, TEEJET	1

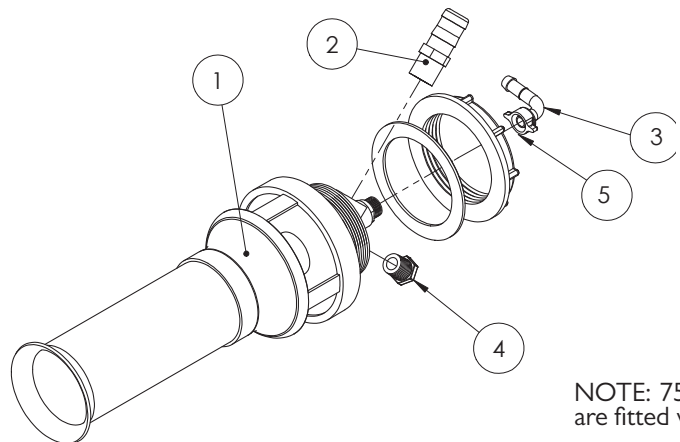
## Venturi Filler



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4903086	VENTURI FILLER - COMPLETE ASSEMBLY	-
-	GA5007235	HOSE CLAMP, COBRA TYPE, 1 1/2"	1
1	GA5077035	VENTURI, TOP OF TANK, 32MM OD OUTLET	1
2	MACH0022	JET FOR ARAG VENTURI	1
3	GA5077743	HOSE BARB FEMALE 3/4"	1
4	GA5078010	POLY PIPE REDUCER BUSH 3/4" X 1/2"	1
5	GA5050205	HOSE LAY FLAT BLUE, 32MM - CUT 405MM LONG	1
6	GA5077679	O-RING 30 X 3MM	1
7	GA5076036	HOSE BARB, STRAIGHT, 1 1/2" FLY NUT END X 1" HOSE BARB	1
8	GA5049125	O-RING, 23.4 X 3.53MM, BS213	2

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

# Supermix Agitator

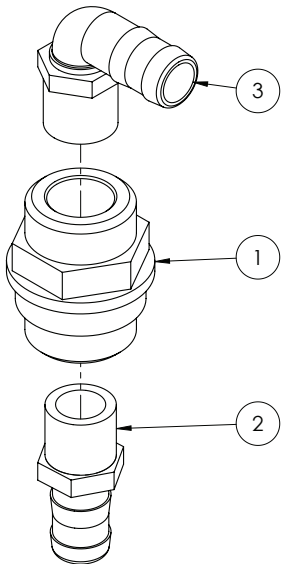


NOTE: 7500L & 8500L models are fitted with dual agitators.

GA4903096 SUPER MIX AGITATOR, PRE ASSEMBLED, STRAIGHT BARB			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077038	AGITATOR, SUPER MIX, 3MM JET, ARAG	1
2	GA5077715	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 1" HOSE BARB, BANJO	1
3	GA5075657	HOSE BARB, ELBOW, 90 DEGREE, 13MM HOSE, INCLUDING 1/2" FLY NUT AND SEAL, BRASS, ARAG	1
4	GA5077943	PLUG, 1/2" MALE THREAD, BANJO	1
5	GA5075653	SEAL, RUBBER, 11.8 ID X 18 OD X 2MM	1

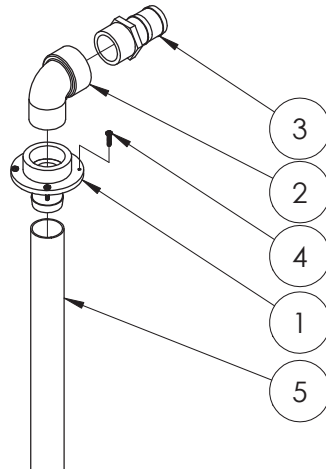
NOTE: Sikaflex 227 used when installing supermix agitator.

## Inlet - Tank Fill 1" - Chemical Pump



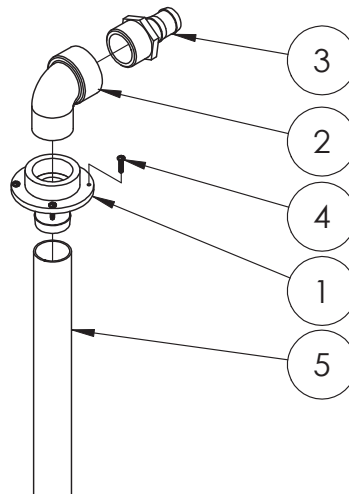
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4572395	MAIN TANK LINE RETURN FITTING 1"	1
2	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1
3	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	1

## Inlet - Tank Fill 2" - Straight



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L026A	BARB TO SUIT TANK FILL TOP	1
2	GA5078142	STREET ELBOW, 90 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD, BANJO	1
3	GA5077737	HOSE BARB, STRAIGHT, 2" MALE THREAD X 2" HOSE	1
4	GA5000527	SCREW, PAN HEAD, 12G X 25MM, SS	4
5	GA2000228	HOSE, PVC, 50MM, BLACK (CUT 1550MM)	1
-	GA5003325	HOSE CLAMP, 2" SS, (40-60/12W)	2

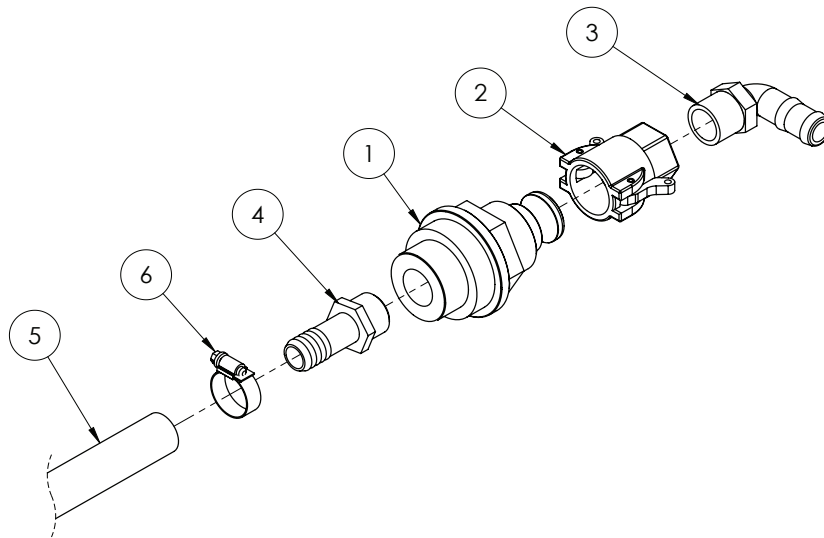
## Inlet - Hopper Fill 2" - Straight



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L026A	BARB TO SUIT TANK FILL TOP	1
2	GA5078142	STREET ELBOW, 90 DEGREE, 2" MALE THREAD X 2" FEMALE THREAD, BANJO	1
3	GA5077739	HOSE BARB, STRAIGHT, 2" MALE THREAD X 1 1/2" HOSE	1
4	GA5000527	SCREW, PAN HEAD, 12G X 25MM, SS	4
5	GA2000228	HOSE, PVC, 50MM, BLACK (CUT 1550MM)	1
-	GA5003325	HOSE CLAMP, 2" SS, (40-60/12W)	2

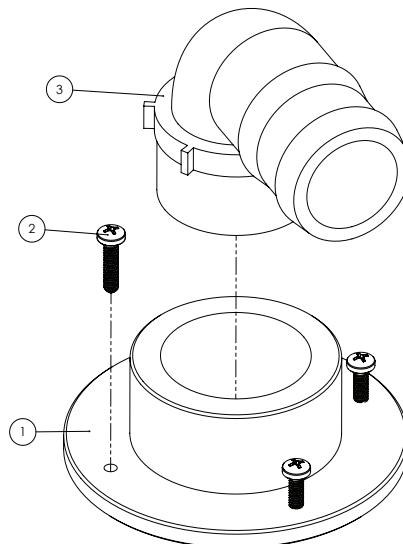


## Inlet - Boom Recirculation



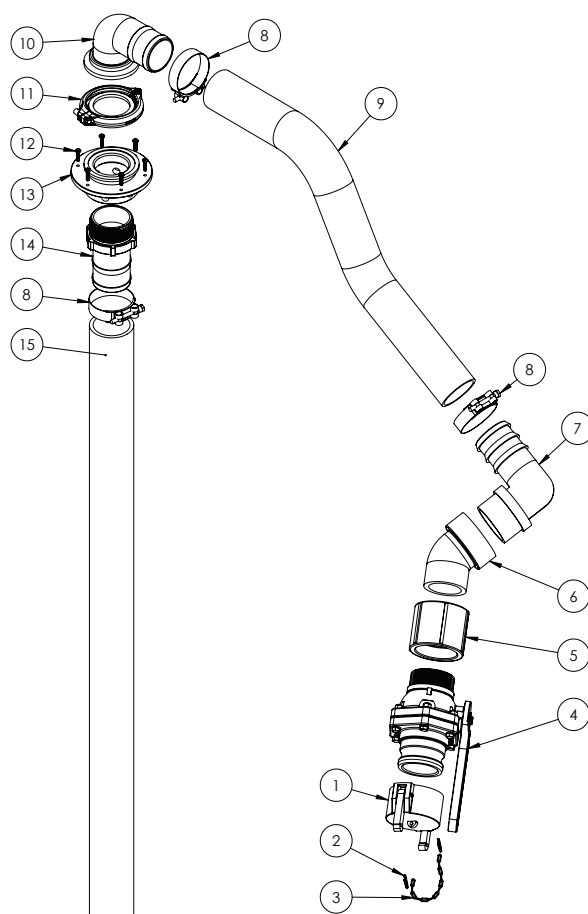
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4572015	TANK RINSE ADAPTOR WITH CAM LOCK	1
2	GA5077132	CAM LEVER, 3/4" FEMALE COUPLING X 3/4" HOSE BARB, BANJO	1
3	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
4	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE, BANJO	1
5	GA2000216	HOSE, PRESSURE, 20MM, BLACK 250PSI (CUT 1300 MM)	1
6	GA5000999	HOSE CLAMP, 3/4", SS (16-27/12W)	1

## Outlet - Tank Overflow 2"



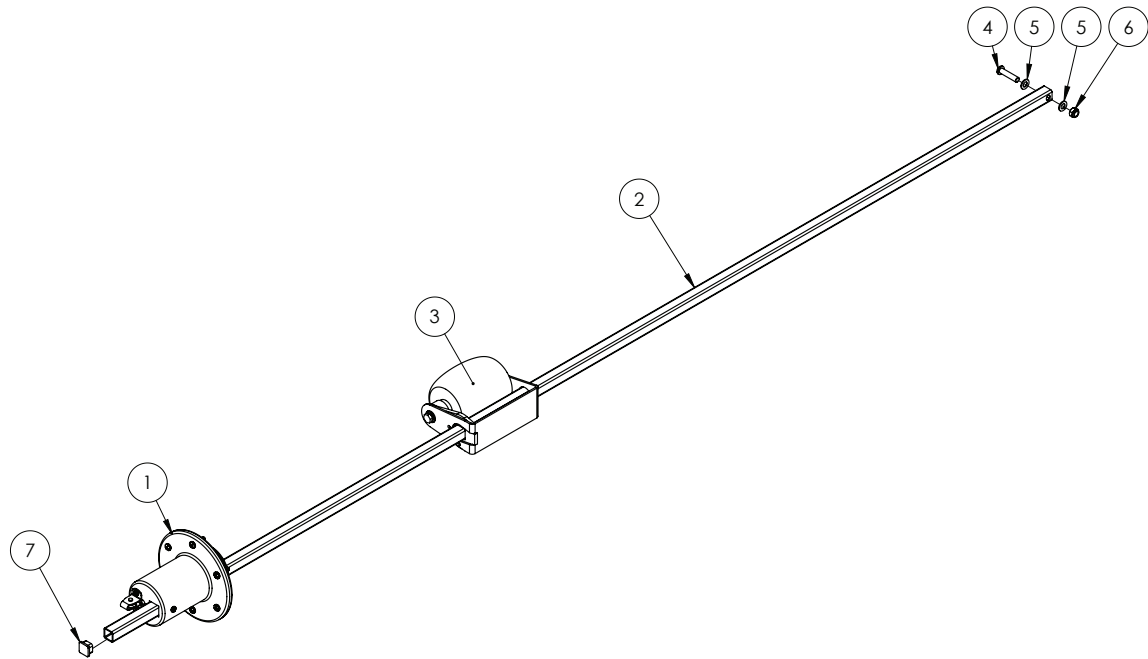
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4583370	THREADED TANK FLANGE 2"	1
2	GA5000527	SCREW 12G X 1 XR STS PAN SS	4
3	GA5077740	HOSE BARB ELBOW 2"	1

## Side Fill Assembly - 3"



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5076719	CAM LEVER, FEMALE CAP, 3"	1
2	GA5002077	KEY RING, 25MM, SS	2
3	GA5001491	CHAIN 2 X 20 MM SS 316 - CUT TO 150 MM	1
4	GA5078204	VALVE, BALL, 3", MALE NPT, MALE CAM LOCK, STUBBLY, LONG HANDLE	1
5	GA5077642	COUPLING, SOCKET, 3" FEMALE THREAD	1
6	GA5078143	STREET ELBOW, 45 DEGREE, 3" MALE X 3" FEMALE	1
7	GA5077742	HOSE BARB, ELBOW, 90 DEGREE, 3" MALE THREAD X 3" HOSE	1
8	GA5054715	HOSE CLAMP, T BOLT, 86-91, SUIT 75 MM AND 3"	3
9	GA2000232	HOSE, SUCTION, 75 MM, WIRE REINFORCED - SPECIFY LENGTH REQUIRED	1
10	GA5077875	HOSE BARB, ELBOW, 90 DEGREE, 3" FLANGE X 3" HOSE	1
11	GA2000116	FLANGE CLAMP, INC. GASKET, 3", SERIES 300	1
12	GA5000527	SCREW PAN HEAD 12G X 25MM SS	6
13	GA4550590	TANK TOP INLET FITTING, 3" BANJO FLANGE AND 3" NPT FEMALE THREAD	1
14	GA5077741	HOSE BARB, STRAIGHT, 3" MALE THREAD X 3" HOSE	1
15	GA2000231	HOSE, SUCTION, PVC, 75MM, BLACK - SPECIFY LENGTH REQUIRED	1

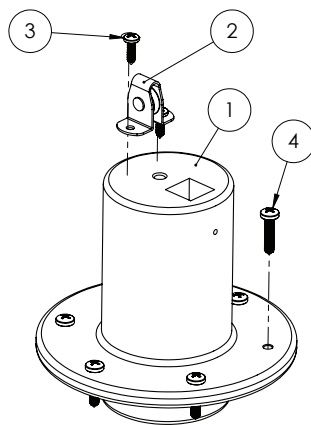
# Dry Sight Tube - Float & Guide



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	DRY SIGHT TUBE - LOCATING CAP ASSEMBLY	1
2	GA5046955	19 X 19 X 1.6 MM SS RHS - CUT 2150 MM	1
3	*	DRY SIGHT TUBE - FLOAT ASSEMBLY	1
4	GA5051370	BHCS M8 X 35MM SS	1
5	GA5003643	WASHER 8MM SS HD	2
6	GA5052590	NUT M8 NYLOC SS	1
7	GA5001101	SQUARE TUBE INSERT 19 X 19MM, BLACK	1

\* Sub-assembly on following pages

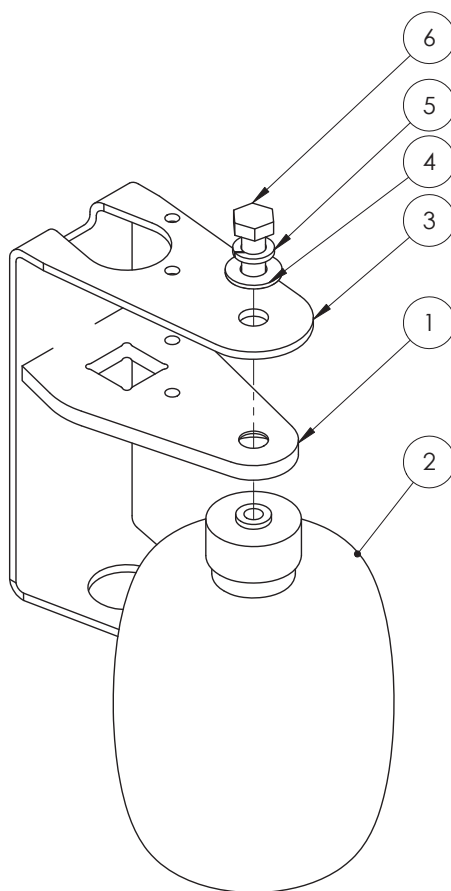
# Dry Sight Tube - Locating Cap Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MACH0308	FLOAT TUBE LOCATING CAP (BLK POLY)	1
2	GA5015221	PULLEY, UPRIGHT, 19MM, SUIT SIGHT TUBE CABLE ROLLER	1
3	GA5014817	SCREW 10G X 5/8" PAN HEAD SS	2
4	GA5000527	SCREW, PAN HEAD, 12G X 25MM, SS	6

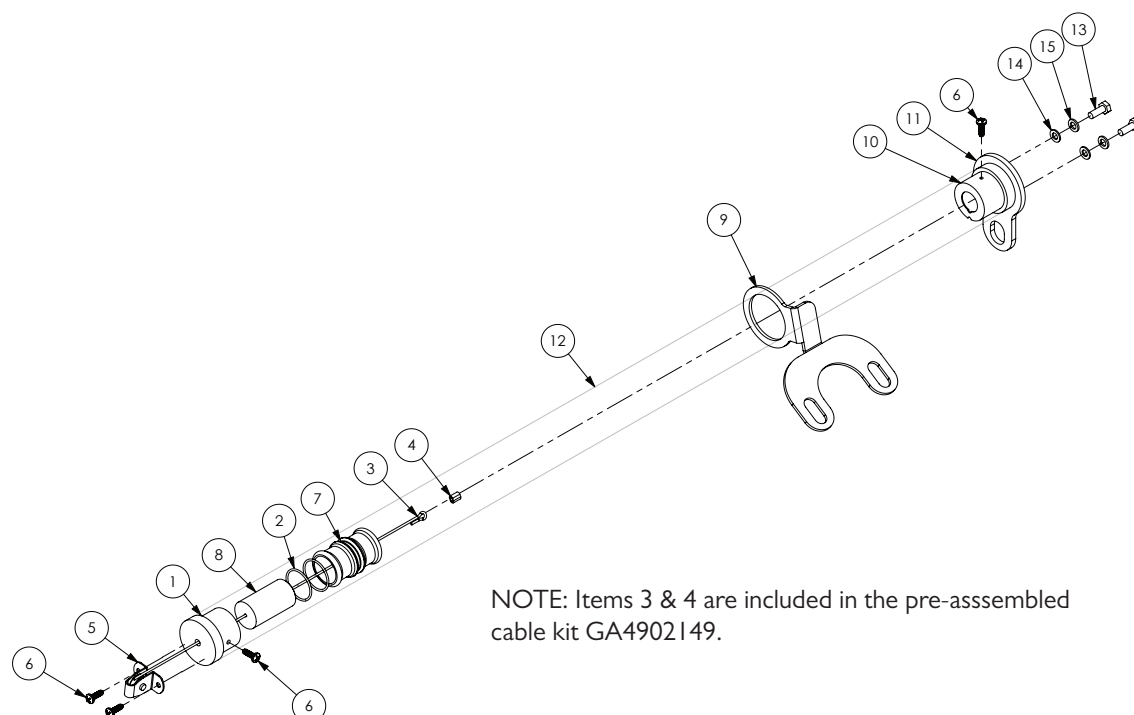
## Dry Sight Tube - Float Assembly

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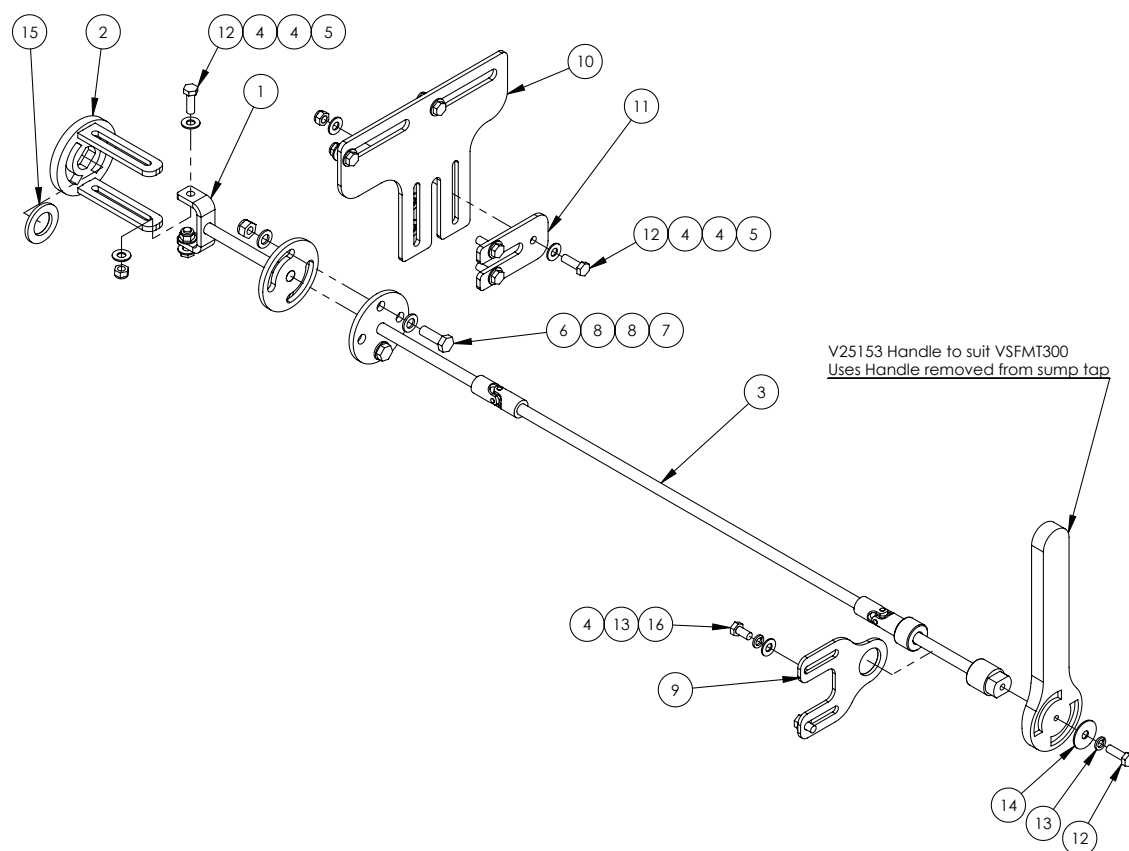
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5072660	FLOAT PLATE DRY SIGHT TUBE	1
2	GA5072665	BALL FLOAT 4" PLASTIC 5/16" WHITWORTH THREADS	1
3	GA4401610	PLATE, FLOAT, DRY SIGHT TUBE	1
4	GA5003643	WASHER 8MM FLAT SS HD	1
5	GA5004919	WASHER 8MM SPRING SS	1
6	GA5048485	SET SCREW, 5/16" X 3/4" BSW, SS GR8	1

## Dry Sight Tube - Cap & Tube Assembly



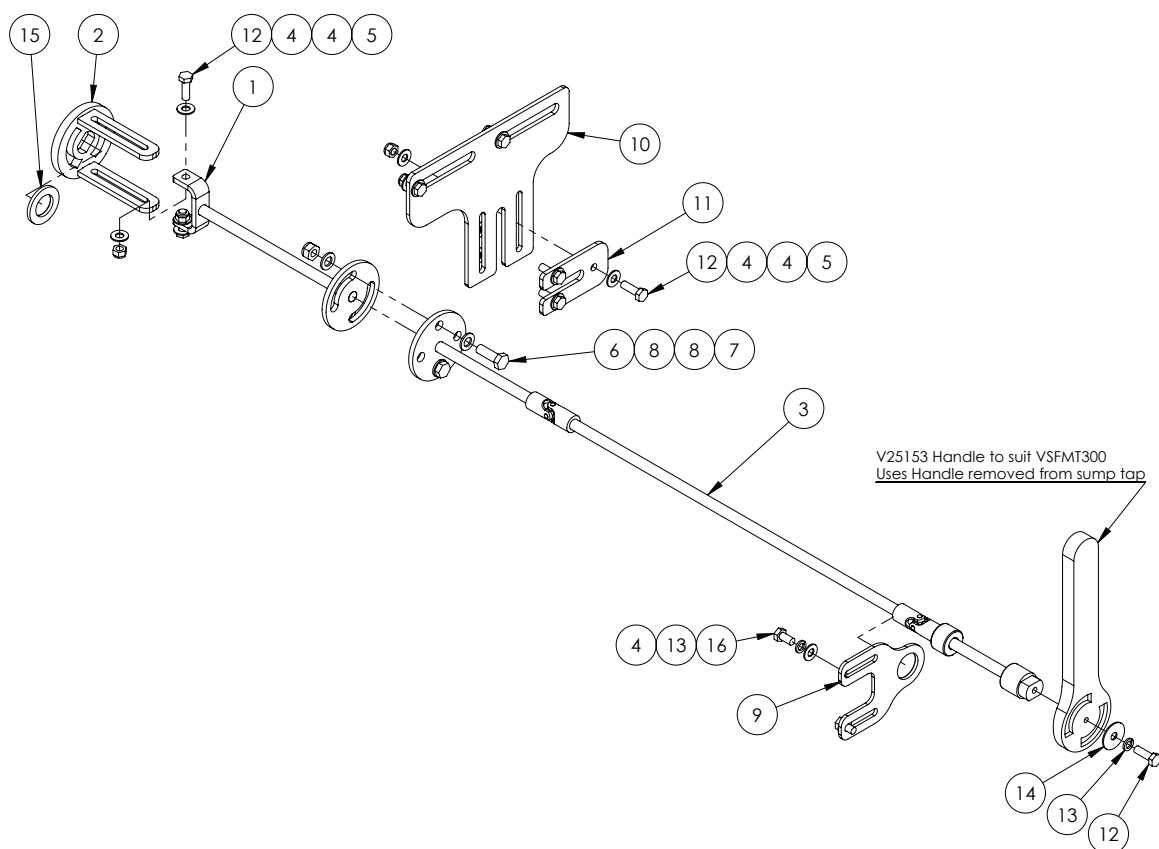
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5070155	DECAL, DRY SIGHT TUBE, 5000L, TOW BEHIND	-
-	GA5061880	DECAL, DRY SIGHT TUBE, 6500L, TOW BEHIND	-
-	GA5061887	DECAL, DRY SIGHT TUBE, 7500L, TOW BEHIND	-
-	GA5061915	DECAL, DRY SIGHT TUBE, 8500L, TOW BEHIND	-
-	GA4902149	CABLE, PRE ASSEMBLY, 5M - INCLUDES CABLE AND FERRULES	-
1	MACH0306	REMOTE SIGHT TUBE END CAP (BLK POLY)	1
2	GA5012529	O RING, 34.65 X 1.78MM, BS024	2
	GA4902149	CABLE, PRE ASSEMBLY, 5M - INCLUDES CABLE AND FERRULES	-
3	GA5017873	CABLE, WIRE ROPE, 1.6 MM, 7X19 CORE, 316 SS, SUIT SIGHT TUBE - CUT TO 5 METRES	1
4	GA5008643	FERRULE, HAND SWAGE, NICKLE PLATED COPPER, SUITS GA5017873 CABLE	2
5	GA5015221	PULLEY, UPRIGHT, 19MM, SUIT SIGHT TUBE CABLE ROLLER	1
6	GA5014817	SCREW 10G X 5/8" PAN HEAD SS	4
7	MACH0307	REMOTE SIGHT TUBE LEVEL INDICATOR	1
8	MACH0317	LEVEL INDICATOR INSERT	1
9	F70668A	SIGHT TUBE LOCATING PLATE	1
10	MACH0316	TUBE END CAP WITH LIGHT ATTACHMENT	1
11	F70669A	SIGHT TUBE BASE MOUNTING PLATE	1
12	GA5002979	SIGHT TUBE, CLEAR, 38 ID X 44 OD X 2000 MM LONG, POLYCARBONATE	1
13	GA5004041	BOLT M6 X 16 GR8.8 ZP	3
14	GA5004437	WASHER 6MM FLAT SS	3
15	GA5004447	WASHER 6MM SPRING SS	3

## Remote Drain - 4000-6500L



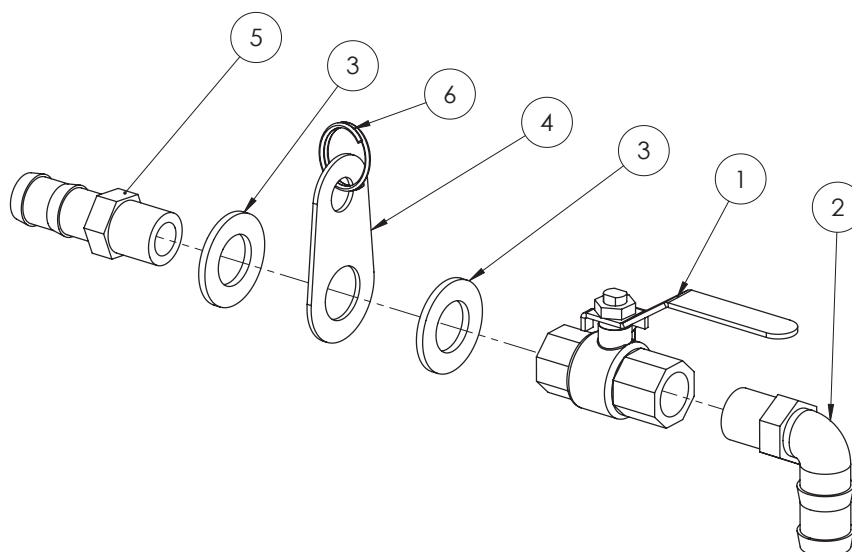
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653657	SUMP BALL VALVE INTER DRIVE SHAFT	1
2	GA4653656	DRIVE FLANGE, SUITS SUMP BALL VALVE	1
3	GA4653658	SUMP BALL VALVE DRIVE SHAFT	1
4	GA5003643	WASHER 8MM FLAT SS HD	16
5	GA5004917	NUT M8 NYLOC ZP	7
6	GA5065455	BOLT M10 X 30 ZP GR8.8	2
7	GA5000141	NUT M10 NYLOC ZP	2
8	GA5000117	WASHER 10MM FLAT SS HD	4
9	GA4513440	PLATE, UNI ROD ALIGNING & SUMP HOSE HANGER	1
10	F70661A	UNI ROD HANGER PLATE	1
11	F70662A	UNI ROD CLAMPING PLATE 5MM FMS	1
12	GA5004711	BOLT M8 X 25 ZP GR8.8	8
13	GA5004919	WASHER 8MM SPRING SS	3
14	GA5003645	WASHER, 5/16" ID X 1 1/4" OD, FLAT SS	1
15	GA5001893	WASHER 1" X 1 7/8" X 14G	1
16	GA5011465	BOLT M8 X 16 ZP GR8.8	2

## Remote Drain - 7500/8500L



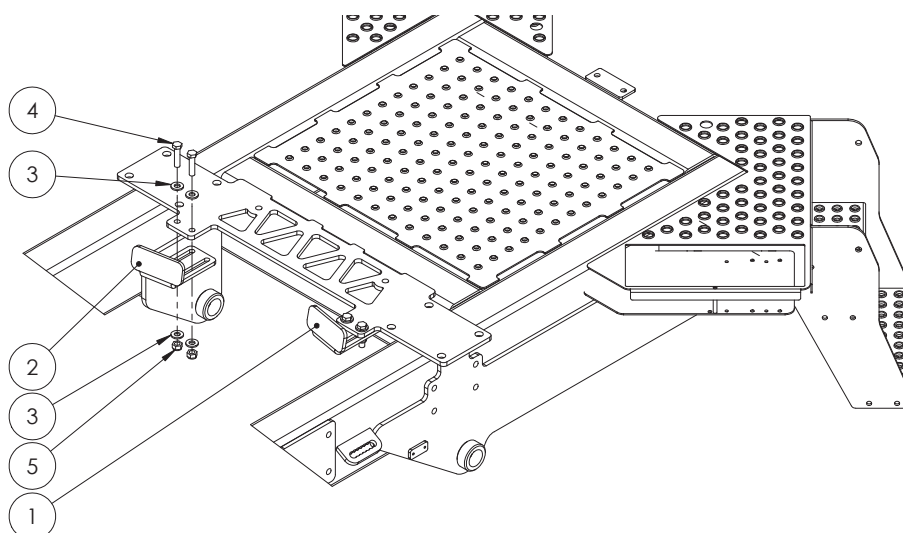
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4653664	SUMP BALL VALVE INTER DRIVE SHAFT SUIT 7500 AND 8500	1
2	GA4653656	DRIVE FLANGE, SUITS SUMP BALL VALVE	1
3	GA4653658	SUMP BALL VALVE DRIVE SHAFT	1
4	GA5003643	WASHER 8MM FLAT SS HD	16
5	GA5004917	NUT M8 NYLOC ZP	7
6	GA5065455	BOLT M10 X 30 ZP GR8.8	2
7	GA5000141	NUT M10 NYLOC ZP	2
8	GA5000117	WASHER 10MM FLAT SS HD	4
9	GA4513440	PLATE, UNI ROD ALIGNING & SUMP HOSE HANGER	1
10	F70661A	UNI ROD HANGER PLATE	1
11	F70662A	UNI ROD CLAMPING PLATE 5MM FMS	1
12	GA5004711	BOLT M8 X 25 ZP GR8.8	8
13	GA5004919	WASHER 8MM SPRING SS	3
14	GA5003645	WASHER, 5/16" ID X 1 1/4" OD, FLAT SS	1
15	GA5001893	WASHER 1" X 1 7/8" X 14G	1
16	GA5011465	BOLT M8 X 16 ZP GR8.8	2

## Sump Drain Valve



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5018309	VALVE, BALL, 12MM, 1/2" FEMALE, LEVER HANDLE, BRASS	1
2	GA5077704	HOSE BARB, ELBOW, 90 DEGREE, 1/2" MALE THREAD X 3/4" HOSE	1
3	GA5001741	WASHER 20MM FLAT SS HD	2
4	F70565A	SUMP DRAIN MOUNTING PLATE	1
5	GA5077707	HOSE BARB, 1/2" MALE THREAD X 3/4" HOSE	1
6	GA5002077	KEY RING, 25MM, SS	1

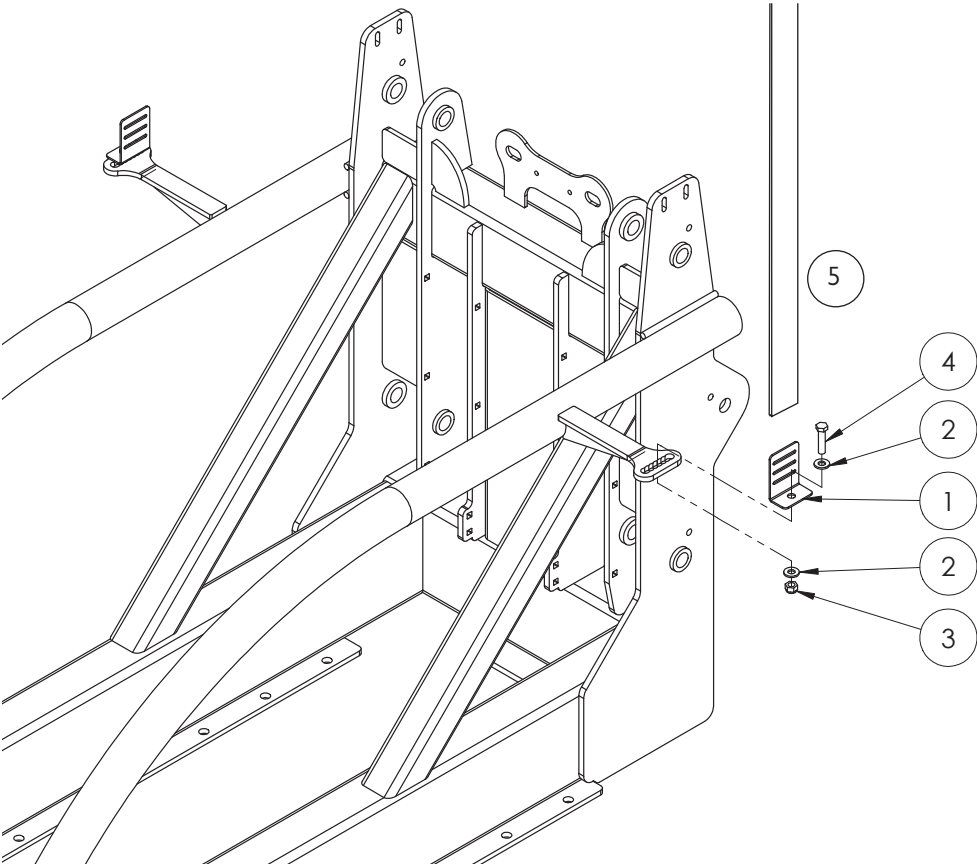
## Tank Stops



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4522515	FRONT TANK STOP RHS	1
2	GA4522510	FRONT TANK STOP LHS	1
3	GA5000577	WASHER 12MM FLAT SS HD	8
4	GA5011239	BOLT, M12 X 50, ZP GR 8.8	4
5	GA5012461	NUT M12 NYLOC ZP	4



# Tank Straps & Brackets - 4000-8500L



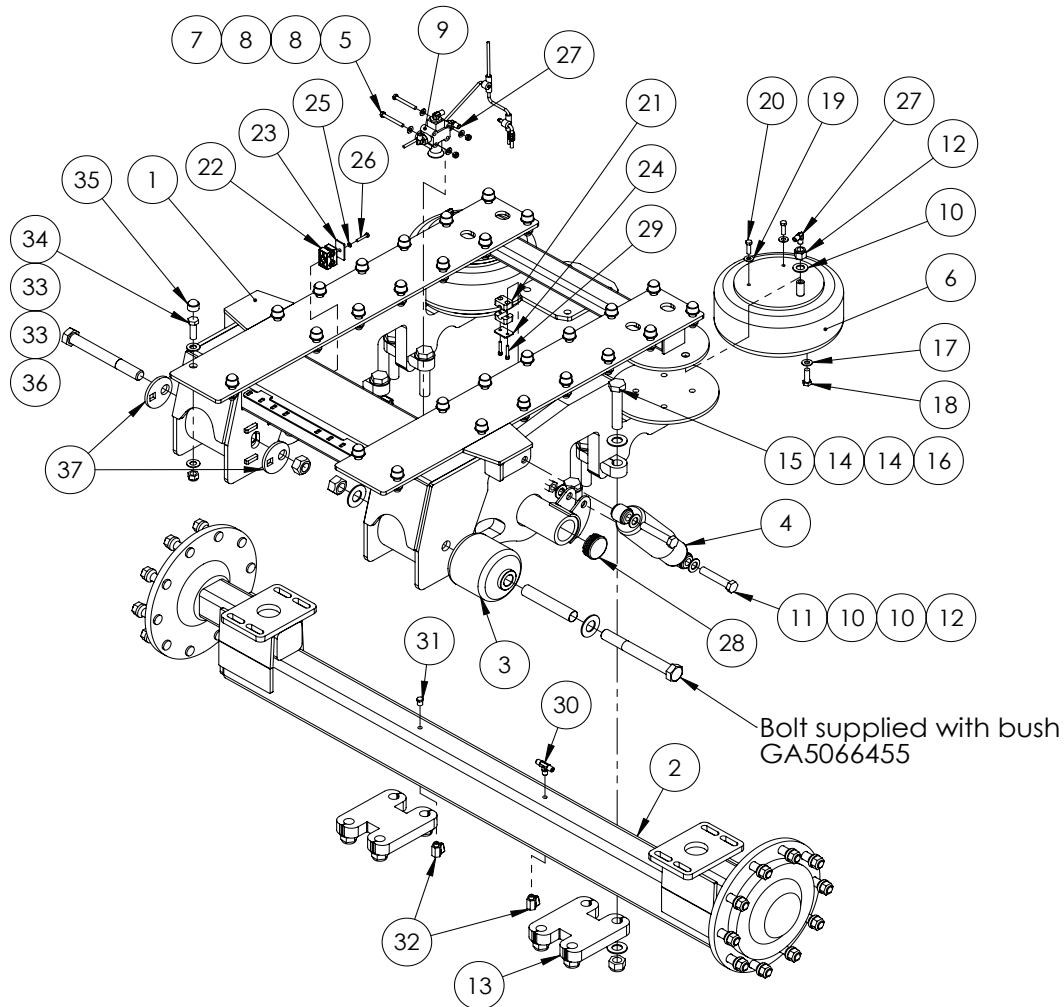
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70127A	BRACKET, TANK STRAP, 50 MM	4
2	GA5000577	WASHER 12MM FLAT SS HD	8
3	GA5012461	NUT M12 NYLOC ZP	4
4	GA5011239	BOLT, M12 X 50, ZP GR 8.8	4
5	GA5003859	STRAP, TANK, 50MM, GOLDACRES BRANDED, (PRICE IS PER METER)	SEE BELOW.
		4000L TANK - CUT LENGTH - FRONT	3600MM
		4000L TANK - CUT LENGTH - REAR	1900MM
		5000L TANK - CUT LENGTH - FRONT	4200MM
		5000L TANK - CUT LENGTH - REAR	2400MM
		6500L TANK - CUT LENGTH - FRONT	4300MM
		6500L TANK - CUT LENGTH - REAR	2400MM
		7500L TANK - CUT LENGTH - FRONT	4300MM
		7500L TANK - CUT LENGTH - REAR	2500MM
		8500L TANK - CUT LENGTH - FRONT	4300MM
		8500L TANK - CUT LENGTH - REAR	2500MM



# Chapter 12

## WHEELS, AXLES & MUDGUARDS

### Air Bag Axle - 4000-6500L



#### RIDE HEIGHT VALVE TEE

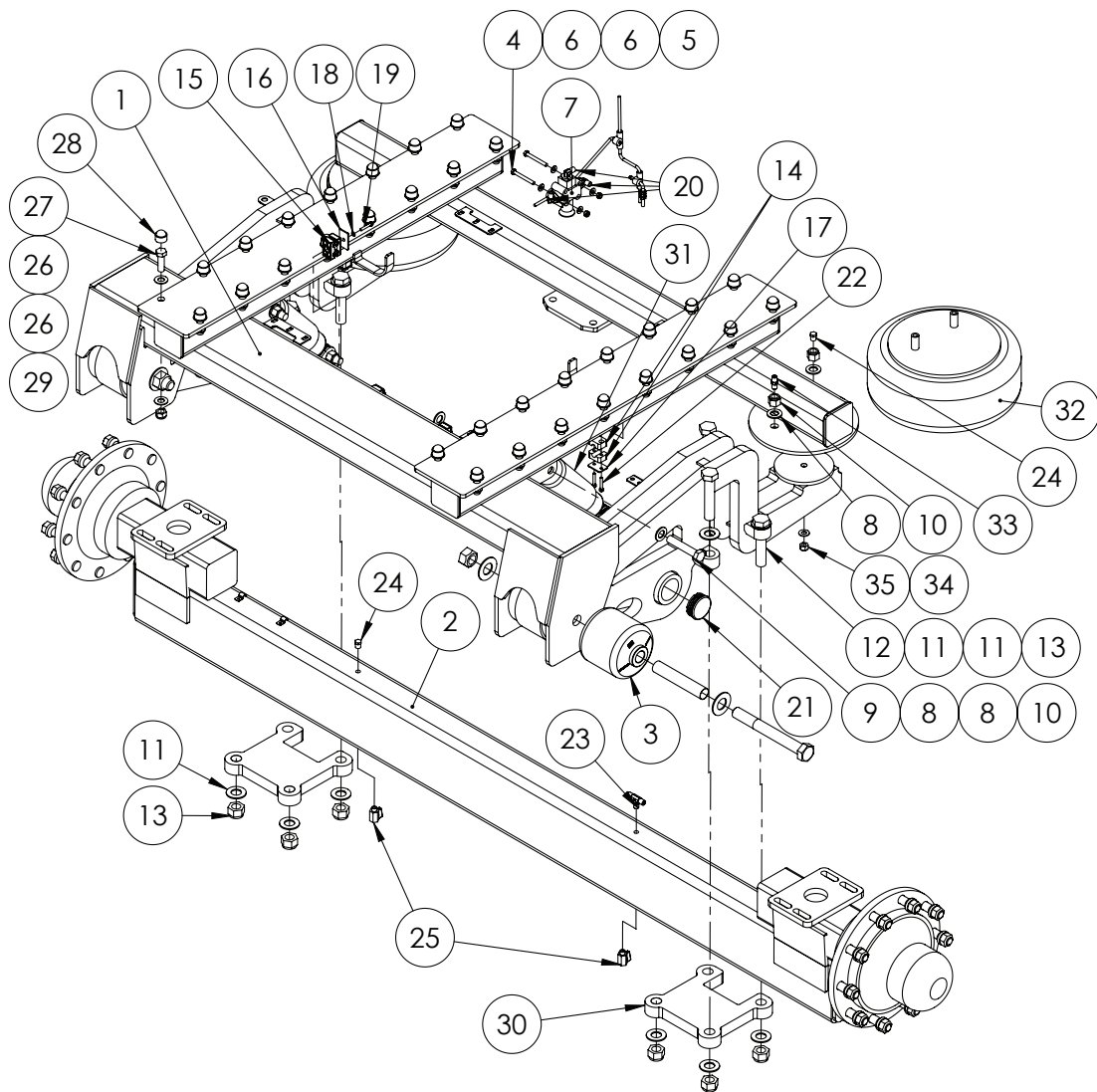
PART NUMBER		DESCRIPTION	QTY.
GA5014651		TEE, RUBBER, SUIT RIDE HEIGHT LEVELLING VALVE RODS	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652810	AXLE AIRBAG FRAME 2M TO 3M	1
	GA4656920	AXLE AIRBAG 2000MM I/O STUD	
	GA4656925	AXLE AIRBAG 2050MM I/O STUD	
	GA4656930	AXLE AIRBAG 2100MM I/O STUD	
	GA4656935	AXLE AIRBAG 3000MM I/O STUD	
2	GA4656945	AXLE, 90 SERIES UNBRAKED SUIT 5000 AND 6500L, CUSTOM WHEEL TRACK, REFER TO BUILD SHEET	1

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## Air Bag Axle - 4000-6500L

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	GA5071010	BI-FUNCTIONAL BUSH, TRAILING AIRBAG SUSPENSION FRAME, INCLUDES BOLT, NUT AND SLEEVE	2
4	GA5015139	SHOCK ABSORBER, DOUBLE EYE, 19MM EYE, 82MM OD, BLACK	2
5	GA5004738	BOLT M8 X 70 ZP GR8.8	2
6	GA5005311	AIR SPRING HT230 SINGLE AIR STUD	2
7	GA5004917	NUT M8 NYLOC ZP	2
8	GA5003643	WASHER 8MM FLAT SS HD	4
9	GA5010868	RIDE HEIGHT VALVE, 1/4" CONNECTING RODS	1
10	GA5001741	WASHER 20MM FLAT SS HD	13
11	GA5049490	BOLT 3/4" UNC X 4" ZP GR8	4
12	GA5048430	NUT, NYLOC, 3/4" UNC, ZP	6
13	GA4632050	SUSPENSION NARROW RETAINER (32MM FMS)	2
14	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	16
15	GA5006031	BOLT, 1" UNC X 5" ZP GR8	8
16	GA5012439	NUT, NYLOC, 1" UNC, ZP	8
17	GA5017673	WASHER 1/2" HIGH TENSILE	8
18	GA5006167	BOLT, 1/2" UNC X 1 1/2", ZP GR8	8
19	GA5017623	WASHER 3/8" FLAT ZP HD	4
20	GA5002599	SET SCREW, 3/8" UNC X 1 1/4", SS	4
21	GA5078058	MOUNTING CLAMP, SINGLE TYPE, JAW, PAIR, GROUP 3, 14MM	4
22	GA5078031	MOUNTING CLAMP, DOUBLE TYPE, JAW, PAIR, GROUP 2, 14MM	4
23	GA5078042	MOUNTING CLAMP, DOUBLE TYPE, PLATE, TOP, GROUP 2	2
24	GA5078068	MOUNTING CLAMP, SINGLE TYPE, PLATE, TOP, GROUP 2	2
25	GA5004447	WASHER, 6MM, SPRING, SS	2
26	GA5011405	BOLT M6 X 35 ZP GR8.8	2
27	GA3500258	HYDRAULIC COUPLING, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPT MALE	5
28	GA5051366	END CAP, 63.5 MM ROUND, 1.25 - 2.0MM WALL, BLACK PLASTIC	2
29	GA5011425	SHCS M6 X 35 SS A2-70	4
30	GA3500269	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPT MALE	1
31	GA5069335	PLUG, 1/4" BSPT MALE THREAD, BRASS	1
32	GA5018323	VALVE, BALL, 1/4" MALE, FEMALE, BLACK LEVER HANDLE, CHROMED	2
33	GA5001043	WASHER 16MM FLAT SS HD	56
34	GA5000931	BOLT M16 X 50 ZP GR8.8	28
35	GA5075080	HEX NUT PROTECTION CAP, SUIT M16, BLACK	28
36	GA5001029	NUT M16 NYLOC ZP	28
37	GA4524630	PLATE ALIGNMENT ECCENTRIC AIR BAG	2

# Air Bag Axle - 7500/8500L



## RIDE HEIGHT VALVE TEE

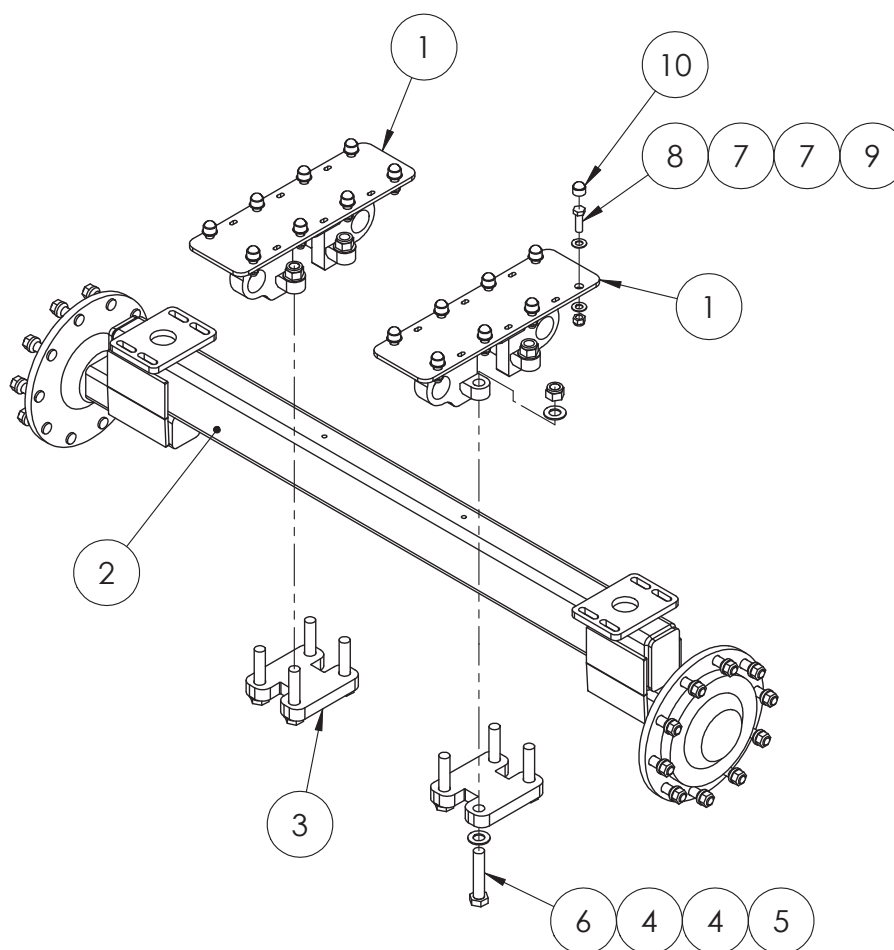
PART NUMBER		DESCRIPTION		
GA5014651		TEE, RUBBER, SUIT RIDE HEIGHT LEVELLING VALVE RODS		
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	
1	GA4652838	AXLE AIRBAG FRAME WIDE SUIT 7500 AND 8500L 2.7M+	1	
	GA4652839	AXLE AIRBAG FRAME NARROW SUIT 7500 & 8500L 2.2M TO 2.7M		
	GA4652865	AXLE UNBRAKED 8000L AIRBAG (3000MM)		
2	GA4652870	AXLE UNBRAKED 8000L AIRBAG (2800MM)	1	
	GA4652871	AXLE SUIT 8000L NARROW AIRBAG (2200MM)		
	GA4656950	AXLE, 110 SERIES UNBRAKED SUIT 7500 AND 8500L, CUSTOM WHEEL TRACK, REFER TO BUILD SHEET		

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## Air Bag Axle - 7500/8500L

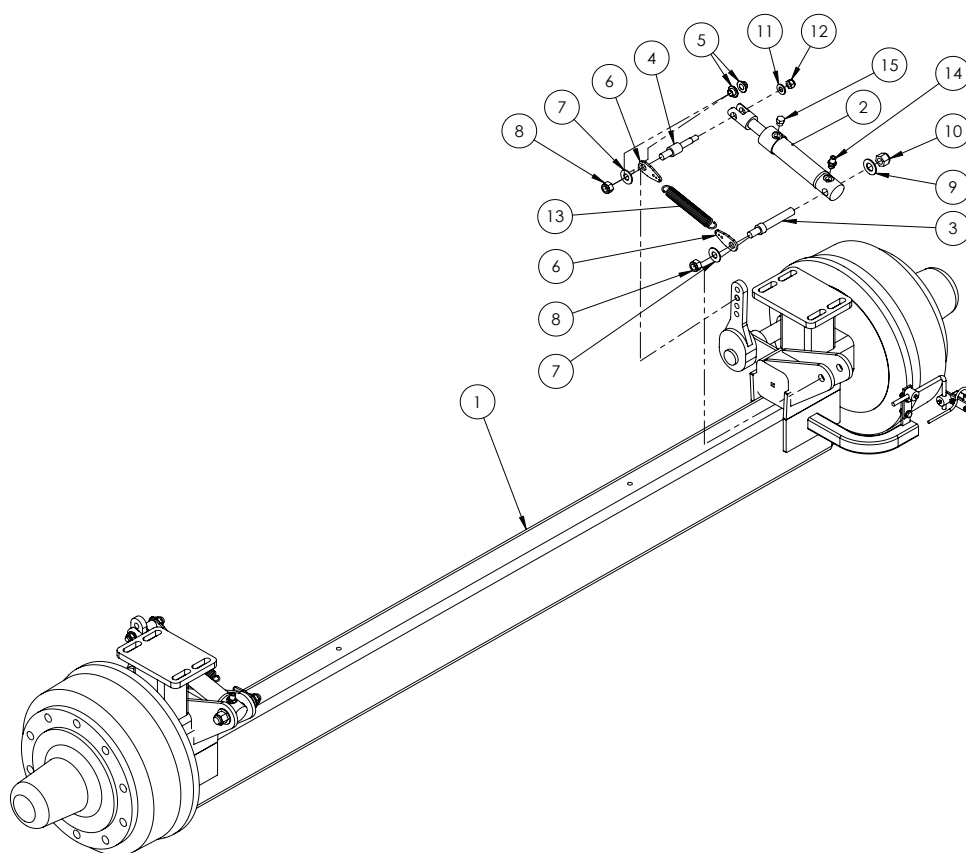
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	GA5071010	BI-FUNCTIONAL BUSH, TRAILING AIRBAG SUSPENSION FRAME, INCLUDES BOLT, NUT AND SLEEVE	2
4	GA5004738	BOLT M8 X 70 ZP GR8.8	2
5	GA5004917	NUT M8 NYLOC ZP	2
6	GA5003643	WASHER 8MM FLAT SS HD	4
7	GA5010868	RIDE HEIGHT VALVE, 1/4" CONNECTING RODS	1
8	GA5001741	WASHER 20MM FLAT SS HD	14
9	GA5049490	BOLT 3/4" UNC X 4" ZP GR8	4
10	GA5048430	NUT, NYLOC, 3/4", UNC, ZP	8
11	GA5017659	WASHER, 1", FLAT, ZP, HEAVY DUTY (5MM THICK)	17
12	GA5006031	BOLT, 1" UNC X 5" ZP GR8	10
13	GA5012439	NUT, NYLOC, 1" UNC, ZP	8
14	GA5078058	MOUNTING CLAMP, SINGLE TYPE, JAW, PAIR, GROUP 3, 14MM	4
15	GA5078031	MOUNTING CLAMP, DOUBLE TYPE, JAW, PAIR, GROUP 2, 14MM	6
16	GA5078042	MOUNTING CLAMP, DOUBLE TYPE, PLATE, TOP, GROUP 2	3
17	GA5078068	MOUNTING CLAMP, SINGLE TYPE, PLATE, TOP, GROUP 2	2
18	GA5004447	WASHER, 6MM, SPRING, SS	3
19	GA5011405	BOLT M6 X 35 ZP GR8.8	3
20	GA3500258	HYDRAULIC COUPLING, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPT MALE	3
21	GA5051366	END CAP, 63.5 MM ROUND, 1.25 - 2.0MM WALL, BLACK PLASTIC	2
22	GA5011425	SHCS M6 X 35 SS	4
23	GA3500269	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPT MALE	1
24	GA5069335	PLUG, 1/4" BSPT MALE THREAD, BRASS	3
25	GA5018323	VALVE, BALL, 1/4 MALE, FEMALE, BLACK LEVER HANDLE, CHROMED	2
26	GA5001043	WASHER 16MM FLAT SS HD	64
27	GA5000931	BOLT M16 X 50 ZP GR8.8	32
28	GA5075080	HEX NUT PROTECTION CAP SUIT M16, BLACK	32
29	GA5001029	NUT M16 NYLOC ZP	32
30	GA4612225	BOTTOM AXLE RETAINING PLATE 7500 AND 8500L	2
31	GA5015139	SHOCK ABSORBER, DOUBLE EYE, 19MM EYE, 82MM OD, BLACK	2
32	GA5005115	AIR SPRING AA300 DUAL AIR STUD	2
33	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPT MALE	2
34	GA5017673	WASHER 1/2" HIGH TENSILE	2
35	GA5050580	NUT 1/2" UNC NYLOC ZP	2

## Rigid Axle



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652986	AXLE CARRIER SUIT EF CHASSIS	2
	GA4656921	AXLE RIGID 2000MM I0 STUD	
	GA4656926	AXLE RIGID 2050MM I0 STUD	
2	GA4656931	AXLE RIGID 2100MM I0 STUD	1
	GA4656936	AXLE RIGID 3000MM I0 STUD	
	GA4656945	AXLE, 90 SERIES UNBRAKED SUIT 5000 AND 6500L, CUSTOM WHEEL TRACK, REFER TO BUILD SHEET	
3	GA4632050	SUSPENSION NARROW RETAINER (32MM FMS)	2
4	GA5017659	WASHER, 1", FLAT, ZP, HEAVY DUTY (5MM THICK)	16
5	GA5012439	NUT, NYLOC, 1" UNC, ZP	8
6	GA5006031	BOLT, 1" UNC X 5" ZP GR8	8
7	GA5001043	WASHER 16MM FLAT SS HD	32
8	GA5000931	BOLT M16 X 50 ZP GR8.8	16
9	GA5001029	NUT M16 NYLOC ZP	16
10	GA5075080	HEX NUT PROTECTION CAP, SUIT M16, BLACK	16

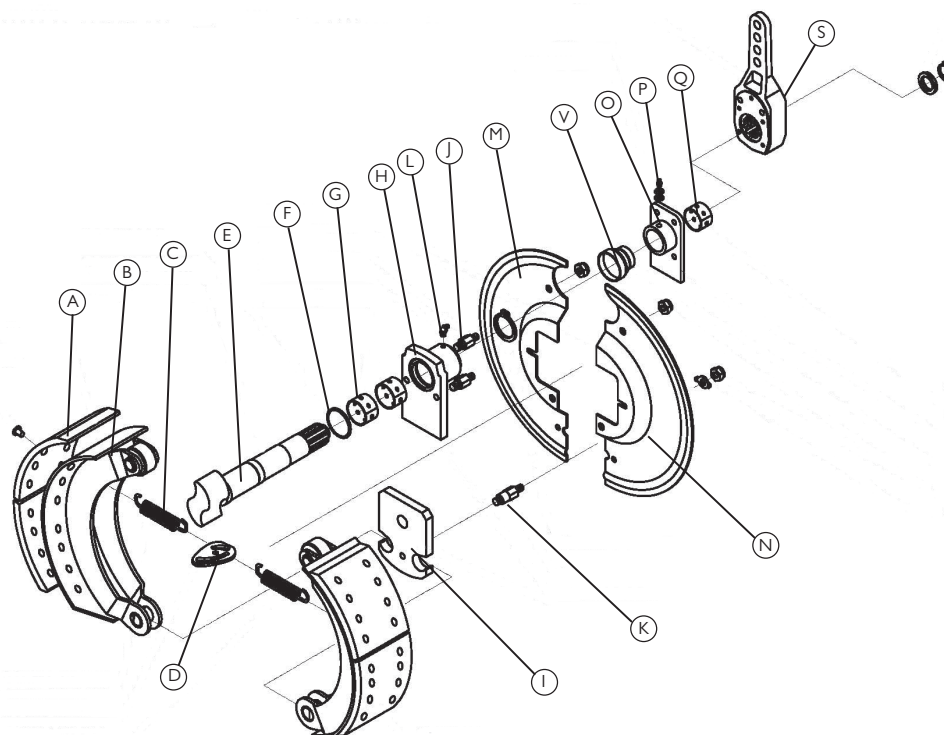
## Braked Axle Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652852	AXLE SUIT AIRBAG 2100MM - 10 STUD BRAKED	1
	GA4652872	2200MM BRAKED AXLE	
	GA4652869	2800MM BRAKED AXLE	
	GA4652866	3000MM BRAKED AXLE	
2	GA5016121	HYDRAULIC CYLINDER 1" ROD X 1.5" BORE X 100MM STROKE	2
3	MACH0201	SPRING AND RAM MOUNTING PIN	2
4	MACH0202	SPRING AND RAM MOUNTING PIN	2
5	MACH0200	RAM CLEVIS SPACER BUSH 32 X 16MM HOLLOW BAR	4
6	F70121A	HOPPER SPRING RETAINER 5MM SS	4
7	GA5001043	WASHER 16MM FLAT SS HD	4
8	GA5001029	NUT M16 NYLOC ZP	4
9	GA5002539	WASHER 3/4" FLAT ZP	2
10	GA5048430	NUT, NYLOC, 3/4", UNC, ZP	2
11	GA5000577	WASHER 12MM FLAT SS HD	2
12	GA5012461	NUT M12 NYLOC ZP	2
13	GA5007755	SPRING, TENSION, 25 OD X 180 LONG X 3MM, SUIT TRAILER BRAKES	2
14	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	2
15	GA3500380	HYDRAULIC ADAPTOR, PLUG, 9/16" UN MALE O-RING	2

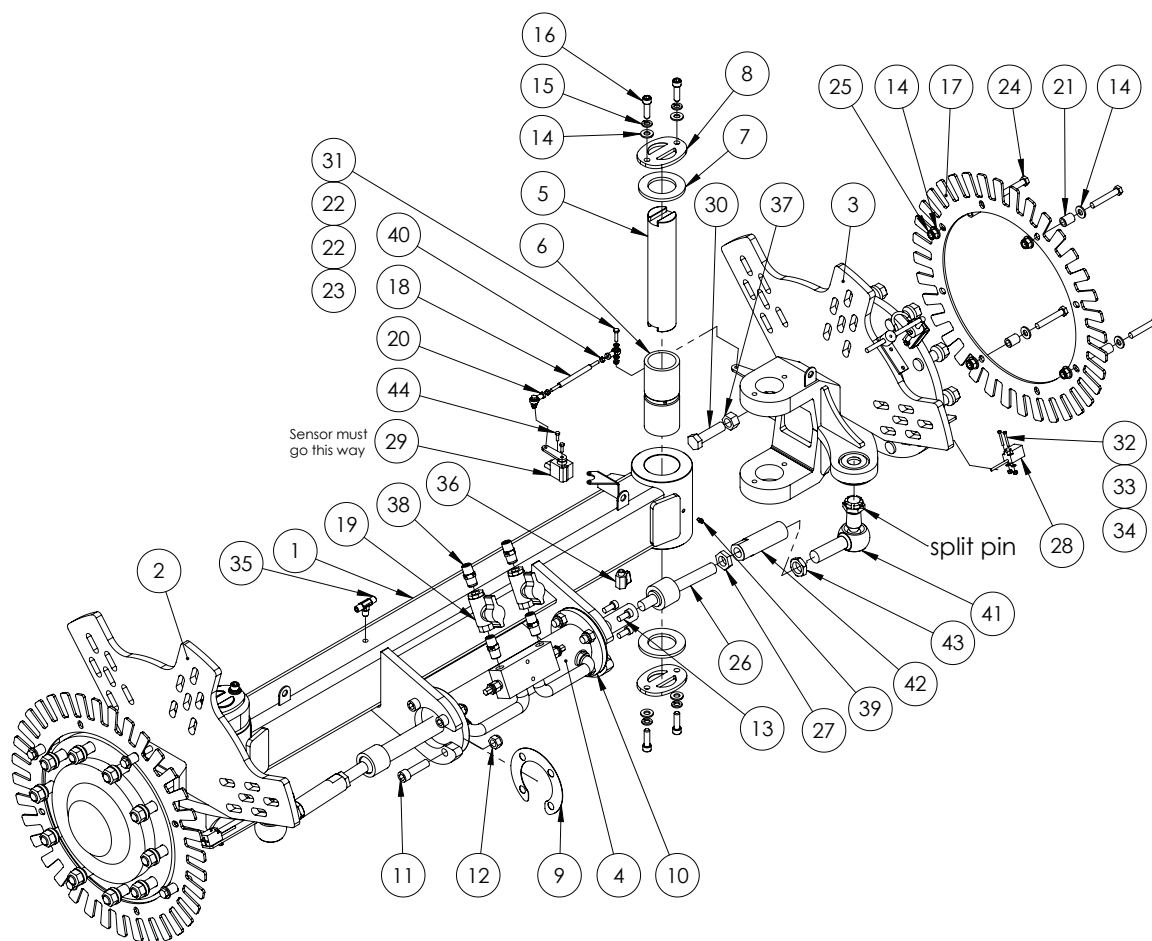


## Brake Mechanism Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
A	GA5062505	BRAKE SHOE	2
B	GA5062510	BRAKE SHOE HOLDER	2
C	GA5062515	BRAKE RETURN SPRING	2
D	GA5062520	BRAKE RETURN SPRING MOUNT	1
E	GA5062525	S CAM	1
F	GA5062530	O-RING	1
G	GA5062535	SPACERS	2
H	GA5062540	S CAM MOUNT	1
I	GA5062545	LOWER BRAKE SHOE MOUNT	1
J	GA5062550	SPACER STUD SHORT	2
K	GA5062555	SPACER STUD LONG	1
L	GA5062560	GREASE NIPPLE	1
M	GA5062565	BACKING PLATE (LEFT)	1
N	GA5062570	BACKING PLATE (RIGHT)	1
O	GA5062575	BRAKE LEVER MOUNT	2
P	GA5062580	GREASE NIPPLE (LONG)	2
Q	GA5062585	SPACER BUSH	1
R	GA5062590	NUT	2
S	GA5062595	BRAKE LEVER	1
T	GA5062600	WASHER	1
U	GA5062605	CIRCLIP	1
V	GA5062610	RUBBER BOOT	1
-	GA5062615	BRAKE DRUM (NOT SHOWN)	1

## Steering Axle Assembly



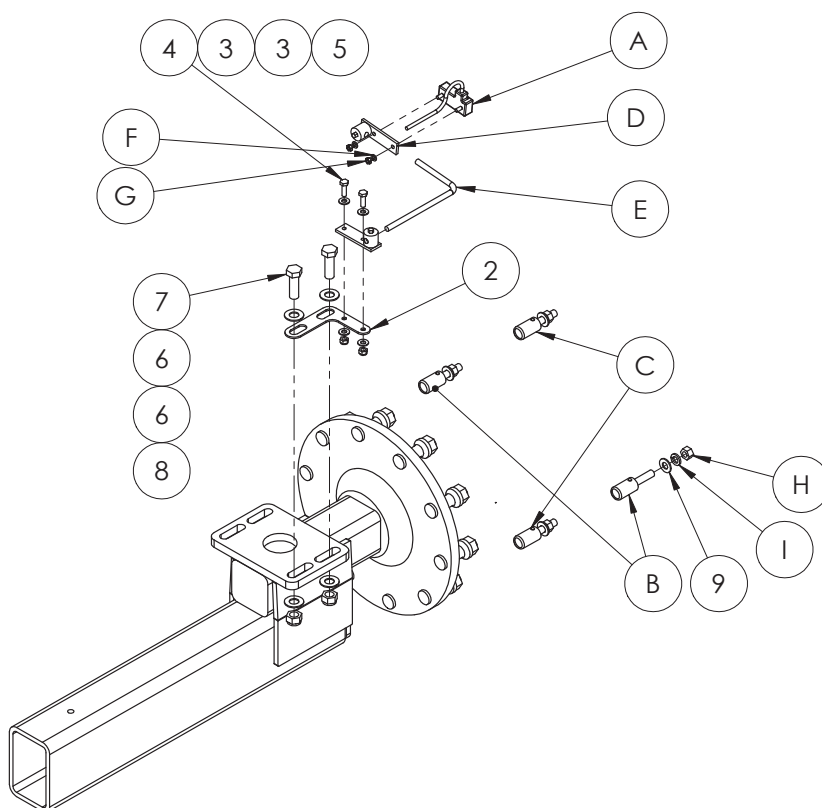
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4652730	AXLE, STEERABLE	1
2	GA4652972	STEERING ARM & STUB AXLE ASSEMBLY, LEFT SIDE	1
3	GA4652971	STEERING ARM & STUB AXLE ASSEMBLY, RIGHT SIDE	1
4	GA5066585	HYDRAULIC CYLINDER SUIT STEERING AXLE	1
5	GA4552315	STEERING KING PIN	2
6	GA4552310	BUSH, 75.2 OD X 60 ID X 170MM LONG, NYLUBE	2
7	GA4552305	THRUST WASHER	4
8	GA4502280	PIN RETAINER	4
9	GA4514640	STEERING RAM SHIM PLATE	2
10	GA4514635	FLANGE PLATE FOR STEERING RAM	1
11	GA5048680	SHCS M16 X 60 ZP GR12.9	8
12	GA5001029	NUT M16 NYLOC ZP	8
13	GA5070250	SHCS 7/16" UNF X 1" ZP GR12.9	4
14	GA5000577	WASHER 12MM FLAT SS HD	24
15	GA5000575	WASHER 12MM SPRING SS	8
16	GA5000321	SHCS M12 X 40 ZP GR12.9	8

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## Steering Axle Assembly

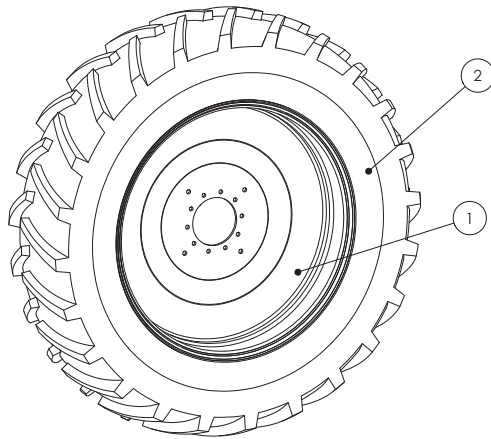
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA4535570	WHEEL SPEED SENSOR DISC FOR STEERING (36 INSTANCES)	2
18	GA4583065	LINK ROD STEERING AXLE SENSOR	1
19	GA5000835	VALVE, BALL, HYDRAULIC, 1/2" FEMALE THREAD INLET / OUTLET	2
20	GA5052725	ROD END 6MM FEMALE	2
21	24MK3CS011M	CRUSH TUBE FOR RAM TILT REPLACEMENT LINKS	8
22	GA5004437	WASHER 6MM FLAT SS	4
23	GA5048115	NUT M6 NYLOC ZP	2
24	GA5000351	BOLT M12 X 75 ZP GR8.8	8
25	GA5012461	NUT M12 NYLOC ZP	8
26	GA5065045	BALL JOINT, INLINE, M24 X 1.5 PITCH X M22 X 1.5 PITCH	2
27	GA5011341	NUT M24 X 1.5 PITCH HEX LOCK ZP	2
28	GA5076542	38412-1 SENSOR, PROX SPD	2
29	GA5047668	SENSOR, ANGLE OF ROTATION, SMART STEER AXLE	1
30	GA5001567	BOLT M20 X 75 ZP GR8.8	2
31	GA5004073	BOLT M6 X 25 ZP GR8.8	2
32	GA5011367	SHCS M4 X 30 ZP GR12.9	4
33	GA5020510	WASHER 4MM FLAT SS	4
34	GA5049025	NUT M4 NYLOC SS	4
35	GA3500269	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPT MALE	1
36	GA5018323	VALVE, BALL, 1/4" MALE / FEMALE THREAD INLET / OUTLET, SS, LEVER HANDLE	2
37	GA5001709	NUT M20 COARSE HEX ZP	2
38	GA3500223	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPT MALE	4
39	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
40	GA5049030	NUT M6 HEX SS	2
41	GA5065041	BALL JOINT, RIGHT ANGLE, M28 X 1.5 THREAD	2
42	GA4572156	TIE ROD, FOR 2M STANDARD FRONT AXLE, M24 TO M28 X 130MM LONG	2
43	GA4572170	LOCK NUT, M28 X 1.5P, SUIT TIE ROD END	2
44	GA5003577	BOLT M5 X 16 ZP GR8.8	2

## Wheel Speed Sensor



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5075858	WHEEL SPEED SENSOR KIT	-
A	GA5075857	SENSOR, WHEEL DRIVE SPEED WITH 7 1/2' CABLE, RAVEN	1
B	GA5075817	MAGNET, RED NORTH POLE SPEED SENSOR ASSEMBLY, RAVEN	2
C	GA5075818	MAGNET, BLACK SOUTH POLE SPEED SENSOR ASSEMBLY, RAVEN	2
D	GA5075822	SENSOR, TURRET ASSEMBLY SPEED SENSOR, RAVEN	2
E	GA5076045	ROD, SPEED SENSOR, RAVEN	1
F	3131000016	WASHER 1/4" LOCK SPLIT ZINC	2
G	3121001031	NUT 1/4" - 20 HEX ZP	2
H	3121001043	NUT 1/2" - 13 HEX ZP	4
I	3131000028	1/2" LOCK WASHER	4
I	GA5075858	SENSOR, SPEED 4 POLE WHEEL DRIVE WITH 7 1/2' CABLE KIT, RAVEN	1
2	GA4534520	SPEED SENSOR TAB BOLT ON	1
3	GA5003643	WASHER 8MM FLAT SS HD	4
4	GA5004711	BOLT M8 X 25 ZP GR8.8	2
5	GA5004917	NUT M8 NYLOC ZP	2
6	GA5001043	WASHER 16MM FLAT SS HD	4
7	GA5000931	BOLT M16 X 50 ZP GR8.8	2
8	GA5001029	NUT M16 NYLOC ZP	2
9	GA5017655	WASHER 1/2" FLAT SS	4

## Wheels



NOTE: WHEN ORDERING COMPLETE WHEEL AND TYRE UNIT, PLEASE NOTE WHICH SIDE IS REQUIRED. RIMS ARE SUPPLIED PAINTED.

### 18.4" x 38" WHEELS

ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018820	WHEEL DW15 X 38, 10 STUDS ON 335, 0 OFFSET
2	GA5001108	TYRE 18.4 X 38 (16 PLY)

### 520/85R42 WHEELS

ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5020340	WHEEL, DW18 X 42, 10 STUDS ON 335, 0 OFFSET
2	GA5020831	TYRE, RADIAL 520/85R42 (20.8 X 42), HR45 X-LOAD 169A8

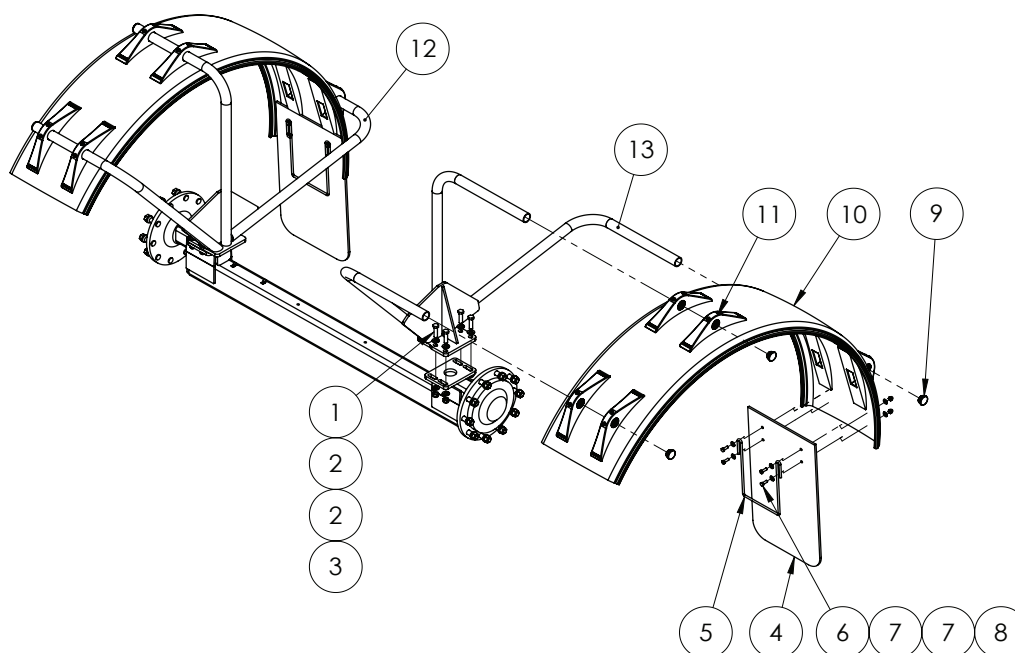
### 480/80R46 WHEELS

ITEM NO.	PART NUMBER	DESCRIPTION
1	GA1500004	WHEEL, DD16 X 46, 0MM OFFSET, 10 STUD 335 PCD
2	GA1500021	TYRE, 480/80 R46, HR45, 166A8/159D HIGH LOAD

### 520/85R46 WHEELS

ITEM NO.	PART NUMBER	DESCRIPTION
1	GA1500004	WHEEL, DD16 X 46, 0MM OFFSET, 10 STUD 335 PCD
2	GA1500024	TYRE, 520/85R46, 173A8/169D, HIGH LOAD

## Mudguards



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5000941	BOLT M16 X 60 BLACK GR8.8 - 38-42" WHEELS	8
		BOLT M16 X 60 BLACK GR8.8 - 46" WHEELS	16
2	GA5001043	WASHER 16MM FLAT SS HD - 38-42" WHEELS	16
		WASHER 16MM FLAT SS HD - 46" WHEELS	32
3	GA5001029	NUT M16 NYLOC ZP - 38-42" WHEELS	8
		NUT M16 NYLOC ZP - 46" WHEELS	16
4	GA5051305	MUDFLAP, FLEXIBLE PLASTIC, 450 X 770MM, GOLDACRES - 38-42" WHEELS	2
	GA5018327	MUDFLAP, 550MM WIDE X 770MM HIGH, GOLDACRES - 46" WHEELS	2
5	GA5075070	BRACKET, MUD GUARD ANTI SAIL, BLACK	2
6	GA5006145	BOLT M10 X 30 SS	8
7	GA5002565	WASHER, 3/8" ID X 1" OD, FLAT SS	16
8	GA5011133	NUT M10 DOME NUT SS	8
9	GA5003925	END CAP, 45 MM ROUND, BLACK PLASTIC	6
10	GA5003825	MUDGUARD, BLACK PLASTIC, 500 WIDE X 1000 MM RADIUS	2
	GA5004263	MUDGUARD 630W X R1000 MM	
11	GA5066977	MUDGUARD BRACKET DUNLOFLEX SUIT 48.3MM PIPE (H50.660)	12
12	REFER TO FOLLOWING TABLES FOR MUDGUARD BRACKET PART NUMBERS		1
13			1

### 38" WHEELS, AIR BAG AXLE

PART NUMBER	DESCRIPTION	QTY
GA4900591-EF-NS-38	MUDGUARDS KIT 38" TO SUIT EF WITH A/BAG SUSPENSION	-
GA4655078	MUDGUARD BRACKET 38" RH EF AIRBAG	1
GA4655079	MUDGUARD BRACKET 38" LH EF AIRBAG	1

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## Mudguards

### 38" WHEELS, RIGID AXLE

PART NUMBER	DESCRIPTION	QTY
GA4900591-P-EF-R	MUDGUARDS KIT 38" TO SUIT EF WITH RIGID AXLE	-
GA4655082	MUDGUARD BRACKET 38" RH EF NON AIRBAG	1
GA4655083	MUDGUARD BRACKET 38" LH EF NON AIRBAG	1

### 42" WHEELS, AIR BAG AXLE

PART NUMBER	DESCRIPTION	QTY
GA4900591-EF-NS-42	MUDGUARDS KIT 42" TO SUIT EF WITH A/BAG SUSPENSION	-
GA4655076	MUDGUARD BRACKET 42" RH EF AIRBAG	1
GA4655077	MUDGUARD BRACKET 42" LH EF AIRBAG	1

### 42" WHEELS, RIGID AXLE

PART NUMBER	DESCRIPTION	QTY
GA4900591-P-EF-R-42	MUDGUARDS KIT 42" TO SUIT EF WITH RIGID AXLE	-
GA4655088	MUDGUARD BRACKET 42" RH EF NON AIRBAG	1
GA4655089	MUDGUARD BRACKET 42" LH EF NON AIRBAG	1

### 46" WHEELS, RIGID AXLE

PART NUMBER	DESCRIPTION	QTY
GA4656525	MUDGUARD BKT EF STD AIRBAG AXLE RH - 46"	1
GA4656530	MUDGUARD BKT EF STD AIRBAG AXLE LH - 46"	1

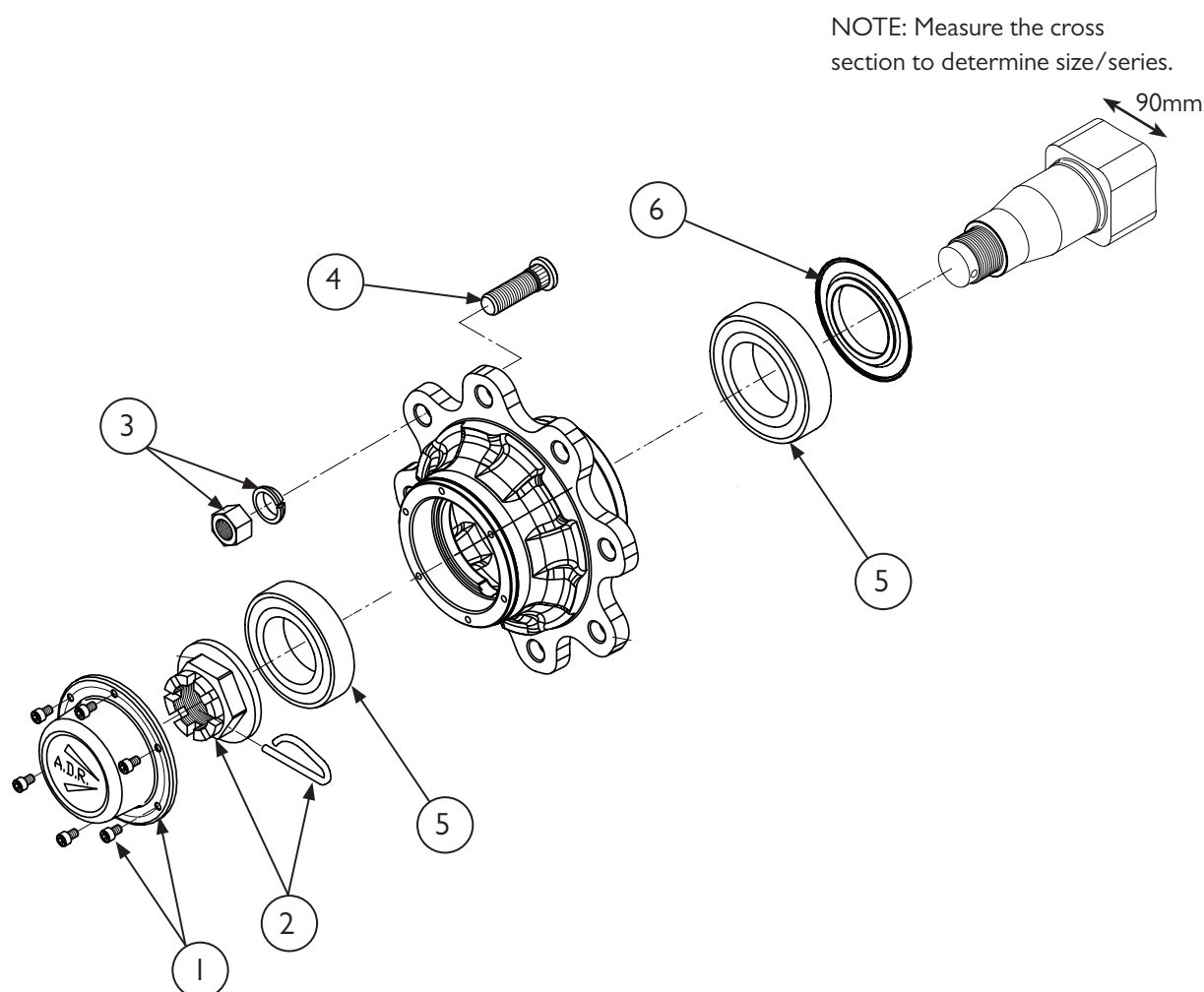
### 46" WHEELS, AIR BAG AXLE

PART NUMBER	DESCRIPTION	QTY
GA4659420	MUDGUARD SPACER SUIT TRAILING UNITS, 90MM	2
GA4656525	MUDGUARD BKT EF STD AIRBAG AXLE RH - 46"	1
GA4656530	MUDGUARD BKT EF STD AIRBAG AXLE LH - 46"	1

### 38" & 42" WHEELS, STEERING AXLE (NOT SHOWN)

PART NUMBER	DESCRIPTION	QTY
GA4900591-EF-S	MUDGUARDS - EF ADVANCE/SMARTSTEER 18.4 X 38" POLY & MUDFLAPS	1
GA4655247	MUDGUARD BRACKET EF STEER SUIT 500W	6
GA5001029	NUT M16 NYLOC ZP	2
GA5003825	MUDGUARD, BLACK PLASTIC, 500 WIDE X 1000MM RADIUS	18
GA5000941	BOLT M16 X 60 ZP GR8.8	18
GA5001043	WASHER 16MM FLAT SS HD	36
GA5075070	BRACKET, MUD GUARD ANTI SAIL, BLACK	2
GA5051305	MUDFLAP, FLEXIBLE PLASTIC, 450 X 770MM, GOLDACRES BRANDING	2
GA5066162	BOLT M10 X 25 SS	12
GA5011133	NUT M10 DOME NUT SS	20
GA5002665	30 SERIES PLUGS	40
GA5006145	BOLT M10 X 30 SS	8

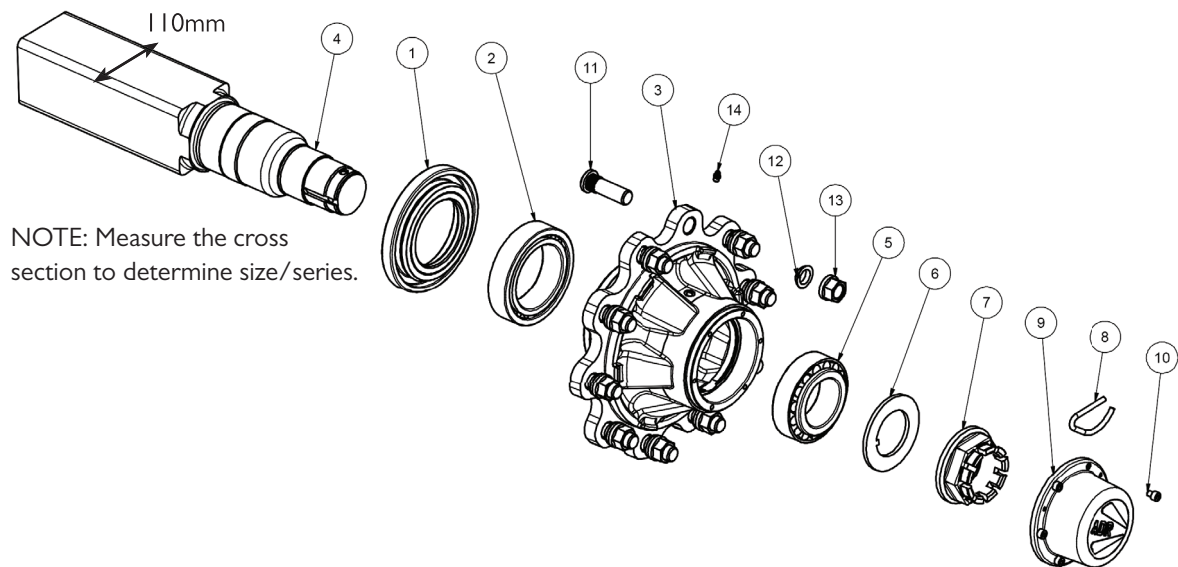
## Hub - 90 Series - Unbraked



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5018119	STUB AXLE, 90 SERIES, ADR	-
1	GA5052120	CAP KIT, 90 SERIES, ADR	1
2	GA5052190	CROWN NUT KIT, 80/90 SERIES, ADR	1
	GA5052165	WHEEL NUT KIT, SUIT 90 / 110 SERIES STUB AXLE, ADR (SET OF 10)	-
3	GA5018892	WHEEL NUT, M22 X 1.5MM, ZP	8
	GA5018900	TAPERED SPRING WASHERS SUIT M22 WHEEL STUD (329F003)	8
	GA5054675	CAP M20 HEX WHEEL NUT COVER	8
4	GA5052205	STUD WHEEL KIT, M22 X 1.5, 90, 100, 110 SERIES, ADR (SET OF 10)	1
5	GA5052200	BEARING KIT, 90 SERIES, ADR	1
6	GA5066405	SEAL KIT, 90 SERIES, ADR	1



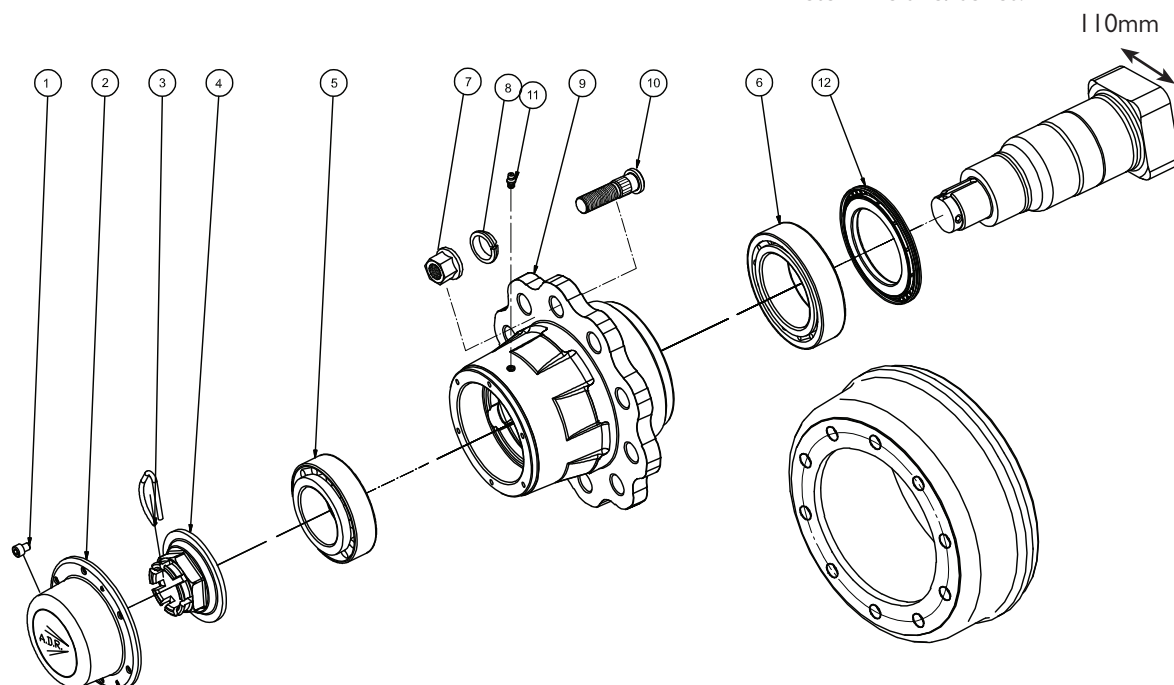
## Hub - 110 Series - Unbraked



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5073545	GREASE SEAL W/DUST COVER, 110 SERIES, UNBRAKED, ADR, 5471502	1
2	GA5073550	BEARING, TAPER ROLLER, REAR, 110 SERIES, UNBRAKED, ADR, 59133020	1
3	61LV1002	HUB, 110 SERIES, UNBRAKED, ADR	1
4	GA5050300	STUB AXLE, 110 SERIES, UNBRAKED, ADR	1
5	GA5073555	BEARING, TAPER ROLLER, FRONT, 110 SERIES, UNBRAKED, ADR, 59133215	1
6	GA5073560	LOCK WASHER, 110 SERIES, ADR, 57B7002	1
7	GA5052140	CROWN NUT KIT, 110 SERIES, UNBRAKED, ADR - INCLUDES 2 NUTS & 2 SPRING PINS	1
8			
9	GA5052145	CAP KIT, 110 SERIES, UNBRAKED, ADR - INCLUDES 2 CAPS & 12 SCREWS	1
10			
11	GA5052205	STUD WHEEL KIT, M22 X 1.5, 90, 100, 110 SERIES, ADR (SET OF 10)	10
12	GA5018900	TAPERED SPRING WASHERS SUIT M22 WHEEL STUD (329F003)	10
13	GA5052165	WHEEL NUT KIT, SUIT 90 / 110 SERIES STUB AXLE, ADR (SET OF 10)	-
	GA5018892	WHEEL NUT, M22 X 1.5MM, ZP	10
14	GA5024086	GREASE NIPPLE, M8 STRAIGHT, 100 SERIES, ADR	1

## Hub - 110 Series - Braked

NOTE: Measure the cross section to determine size/series.

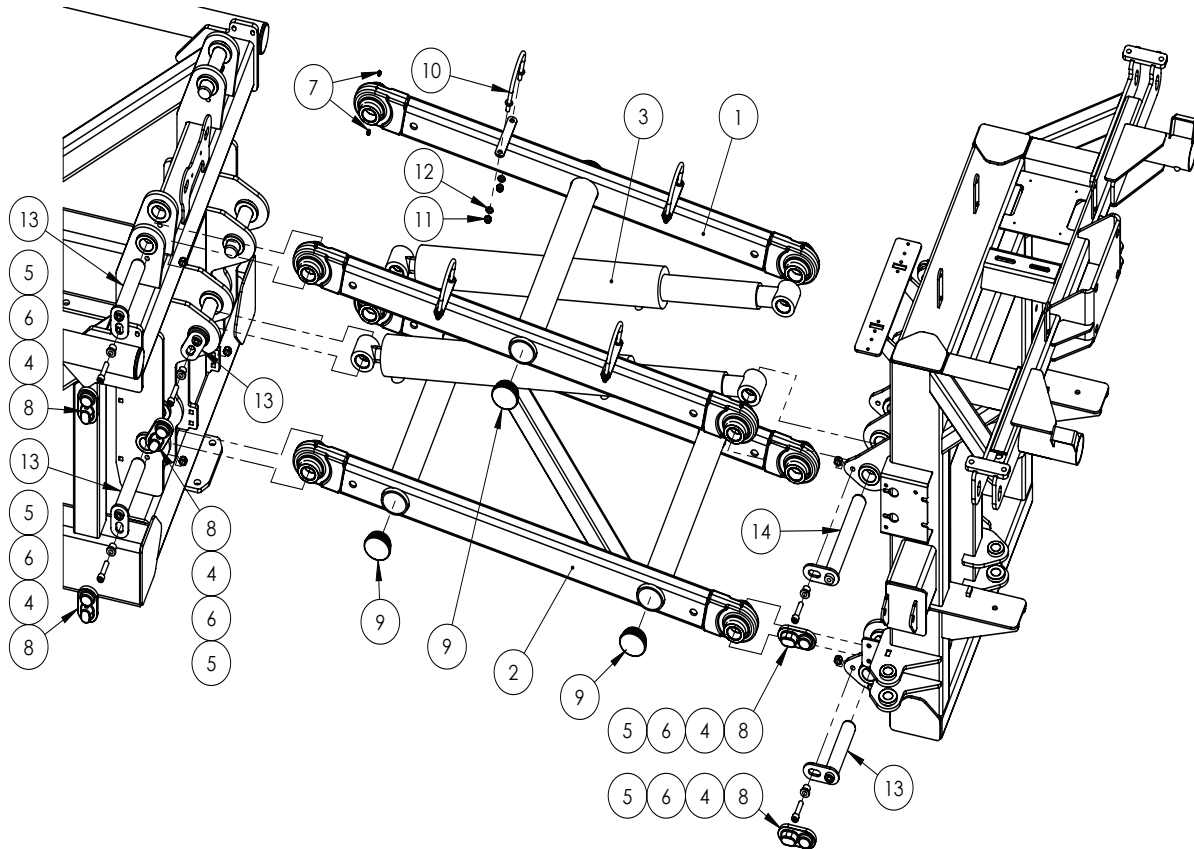


PART NUMBER		DESCRIPTION	QTY
GA5018120		STUB AXLE, 10 STUD 335 PCD, 110 SERIES, RH, BRAKED, ADR	1
GA5018121		STUB AXLE, 10 STUD 335 PCD, 110 SERIES, LH, BRAKED, ADR	1
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	9RT125AC	CAP KIT, 110 SERIES, BRAKED, ADR - INCLUDES 2 CAPS & 12	1
2		SCREWS	
3	58209	SPRING PIN, 110 SERIES, BRAKED, ADR	1
4	57548B6	CROWN NUT, 110 SERIES, BRAKED, ADR	1
5	GA1700008	BEARING KIT, 100 SERIES UNBRAKED, 110 SERIES BRAKED,	1
6		33114, 33018, ADR	
7	GA5052165	WHEEL NUT KIT, SUIT 90 / 110 SERIES STUB AXLE, ADR (SET	-
		OF 10)	
	GA5018892	WHEEL NUT, M22 X 1.5MM, ZP	10
8	GA5018900	TAPERED SPRING WASHERS SUIT M22 WHEEL STUD	10
		(329F003)	
9	61LIUA004	HUB, 110 SERIES, UNBRAKED, ADR	1
10	57122B15	WHEEL STUD, M22, 110 SERIES, BRAKED, ADR	10
11	GA5024086	GREASE NIPPLE, M8 STRAIGHT, 100 SERIES, ADR	1
12	GA5073565	GREASE SEAL, 110 SERIES, UNBRAKED, ADR, 5441402	1

# Chapter 13

## BOOM CENTRE

### 24-36m - Paralift & Paralift Arms



NOTE: ITEM GA1700027 SUITS BOTH  
PARALIFT ARM ENDS AS WELL AS  
HYDRAULIC CYLINDER ENDS.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA1700027	BEARING, GLACIER BUSH, 1 1/2" ID X 1" LONG	24
	GA4659306	TOP PARALIFT ARM MY19	1
1	GA5073455	BEARING END, WELD IN, SUIT 1 1/2" PIN, PARALIFT ARM - SUIT FIELD REPAIR	-
	GA4659311	BOTTOM PARALIFT ARM MY19	1
2	GA5073455	BEARING END, WELD IN, SUIT 1 1/2" PIN, PARALIFT ARM - SUIT FIELD REPAIR	-
3	GA3500682^	HYDRAULIC CYLINDER, DISPLACEMENT, 3" BORE, 2.5" ROD 21" STROKE, 1 1/2" PIN EYES	2
4	GA5051470	SHCS M12 X 50 GR12.9 ZP	10
5	GA5012461	NUT M12 NYLOC ZP	10

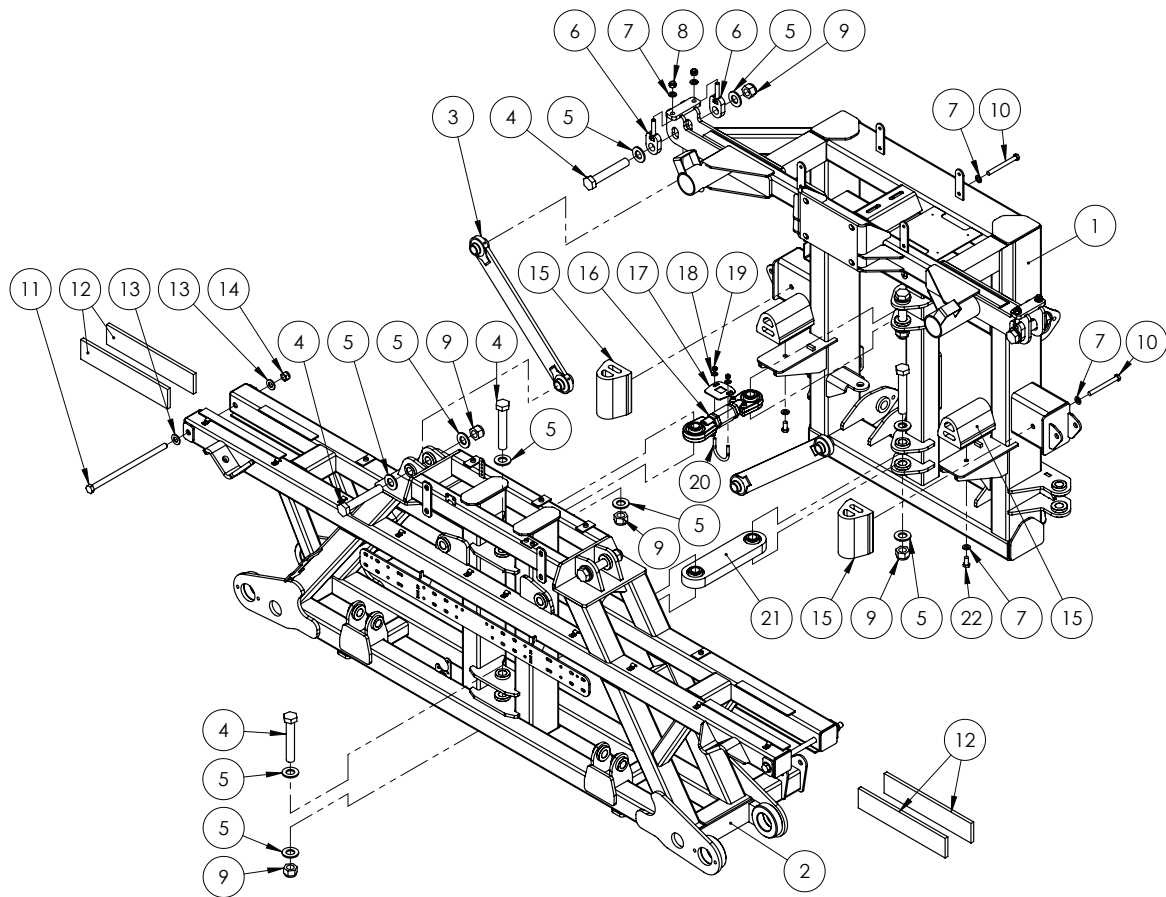
^ See Chapter 18 'Hydraulics' for sub-assembly.

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## 24-36m - Paralift & Paralift Arms

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6	MACH0152	12MM BOLT BUSH SUIT PARA LIFT PINS	10
7	GA5050450	GREASE NIPPLE 6MM	16
8	GA5067885	PIN COVER - PLASTIC	10
9	GA5050355	INSERT TO SUIT 65NB TUBE	8
10	GA5070905	U BOLT, ROUND TOP, M10 X 118 X 115MM, WITH STOPPER WASHERS, ZP	4
11	GA5000141	NUT M10 NYLOC ZP	8
12	GA5000117	WASHER 10MM FLAT SS HD	8
13	GA5073460	PIN, 1 1/2", SUIT PARALIFT ARM, CHROME PLATED	8
14	GA5073465	PIN, 1 1/2", SUIT PARALIFT ARM & CYLINDER, CHROME PLATED	2

## 24-36m - Boom Centre - Base Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658138	PARALIFT REAR, TRITECH	1
2	GA4658122	CENTRE SECTION, TRITECH	1
3	GA4656240	DELTA LINK, LONG	2
4	GA4683145	BOLT 1" UNC X 6" CUT DOWN FROM 7"	8
5	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	16
6	GA4656260	ADJUSTER BOLT, DELTA LINK HANGER	4
7	GA5000577	WASHER 12MM FLAT SS HD	8
8	GA5012461	NUT M12 NYLOC ZP	4
9	GA5012439	NUT 1" UNC NYLOC ZP	8
10	GA5000265	BOLT M12 X 120 GR8.8 ZP	2
11	GA5075125	BOLT M16 X 325 GR4.4 ZP 60 MM OF THREAD	2

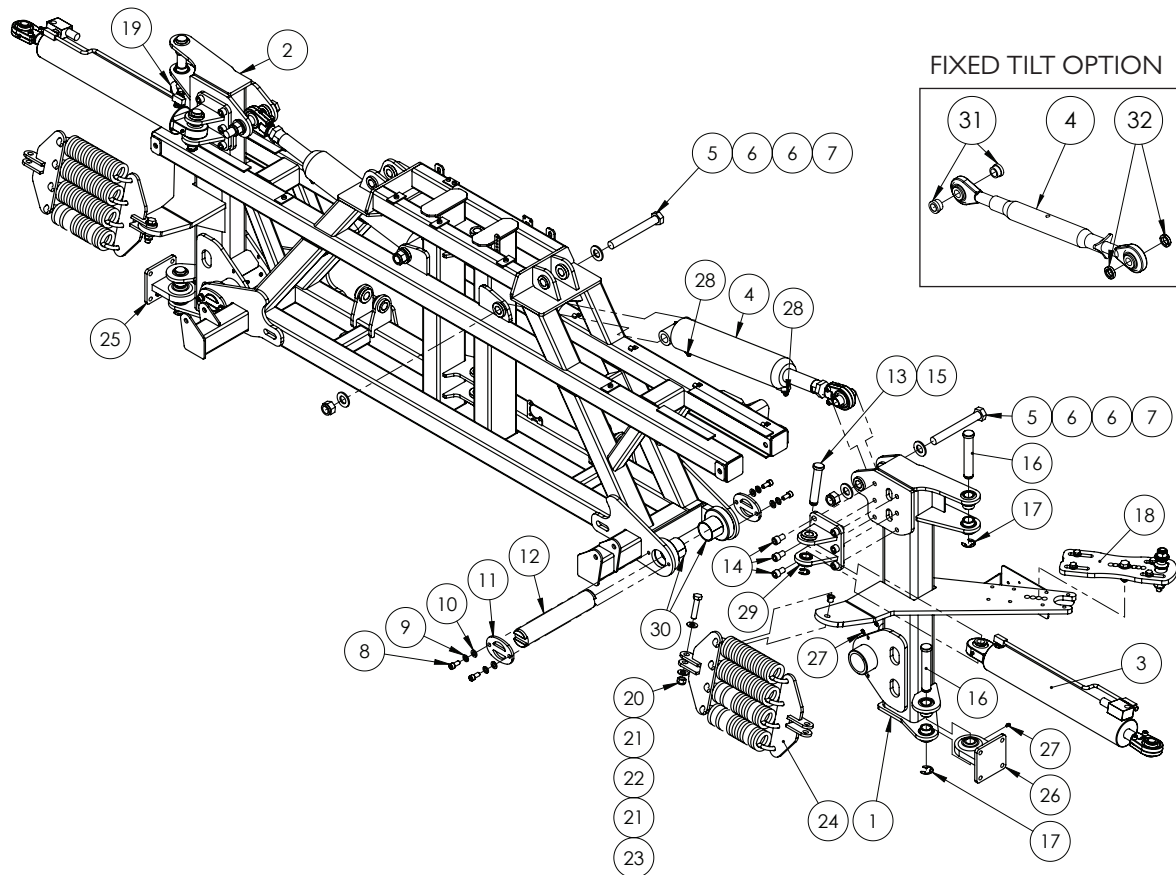
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## 24-36m - Boom Centre - Base Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
12	GA5075090	WEAR PAD, 380 X 74 X 12 MM, POLYSTONE, SUIT TRI TECH TILT ARM	4
13	GA5001009	WASHER 16MM FLAT ZP HD	4
14	GA5012463	NUT M16 NYLOC SS	2
15	GA5075240	BUMP STOP RUBBER WITH THREADED INSERT	4
16	*	DELTA LINK	1
17	GA4524140	LOCKING PLATE SUIT ADJUSTABLE DELTA LINK SS	1
18	GA5003643	WASHER 8MM FLAT SS HD	2
19	GA5052590	NUT M8 NYLOC SS	2
20	GA5018245	U BOLT, ROUND TOP, M8 X 50 X 60 MM	1
21	GA5067855	DELTA LINK, SHORT, HEAVY DUTY	1
22	GA5011229	BOLT M12 X 25 GR8.8 ZP	2

\* Sub-assembly on following pages

## 24-36m - Boom Centre - Tilt Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4658130	TILT ARM LH	1
2	GA4658125	TILT ARM RH	1
3	GA5018540^	HYDRAULIC CYLINDER, BORE 3", ROD 1.25", STROKE 18", EXTERNAL PHASING	2
4	GA5065051^	HYDRAULIC CYLINDER, BORE 3.5", ROD 1.75", STROKE 5"	2
	GA5075135	TILT CYLINDER REPLACEMENT ADJUSTABLE TOP LINK - STANDARD FITMENT	2
5	GA5006151	BOLT 1" UNF 12 TPI X 8" GR8 ZP	4
6	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	8
7	GA5012446	NUT 1" UNF 12 TPI NYLOC ZP	4
8	GA5000297	SHCS M12 X 25 GR12.9 ZP	8
9	GA5000575	WASHER 12MM SPRING SS	8
10	GA5000577	WASHER 12MM FLAT SS HD	8
11	GA4502280	PIN RETAINER	4
12	GA4572365	TILT PIN	2
13	GA4572200	PIN, 1" DIAMETER X 132.4 MM LONG, WITH SHOULDER AND CIRCLIP GROOVE, SUIT CENTRE SECTION FOLD RAM	2

Continued over page

## 24-36m - Boom Centre - Tilt Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	GA5000905	SHCS M16 X 25 GR12.9 ZP	12
15	GA5001223	CIRCLIP, 19MM, E TYPE, ZINC PLATED	2
16	L003A	PIN, 1 1/8" X 170MM, WITH CIRCLIP GROOVE	4
17	GA5001883	CIRCLIP, E TYPE, 24MM, ZINC PLATED	4
18	*	CABLE MOUNT REAR, FLAT FOLD, 24-36M LH	1
19	*	CABLE MOUNT REAR, FLAT FOLD, 24-36M RH	1
20	GA5012463	NUT M16 NYLOC SS	2
21	GA5001009	WASHER 16MM FLAT ZP HD	4
22	GA5075220	GLACIER BUSH FLANGED 16MM SUIT BOOM CABLE PIVOT	2
23	GA5000949	BOLT M16 X 70 GR8.8 ZP	2
24	~	BOOM CABLE SPRINGS	2
25	GA4656200	ROSE END, BOLT ON, RH, SUIT 24 - 36M BOOM	1
26	GA4656201	ROSE END, BOLT ON, LH, SUIT 24 - 36M BOOM	1
27	GA5050450	GREASE NIPPLE 6MM	6
28	GA3500147	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 3/4" UN MALE O-RING	4
29	GA4653316	RAM MOUNT, 1"	2
30	GA5075060	GLACIER BUSH 60MM ID 50MM LONG	4
31	DB-ADJ-02	BUSH, SHORT, 40 OD X 25.5 ID X 23.75 MM LONG	4
32	GA4572135	SPACER BUSH, 40 OD X 25.8 ID X 9 MM THICK, PARALIFT ARM SPACER	4

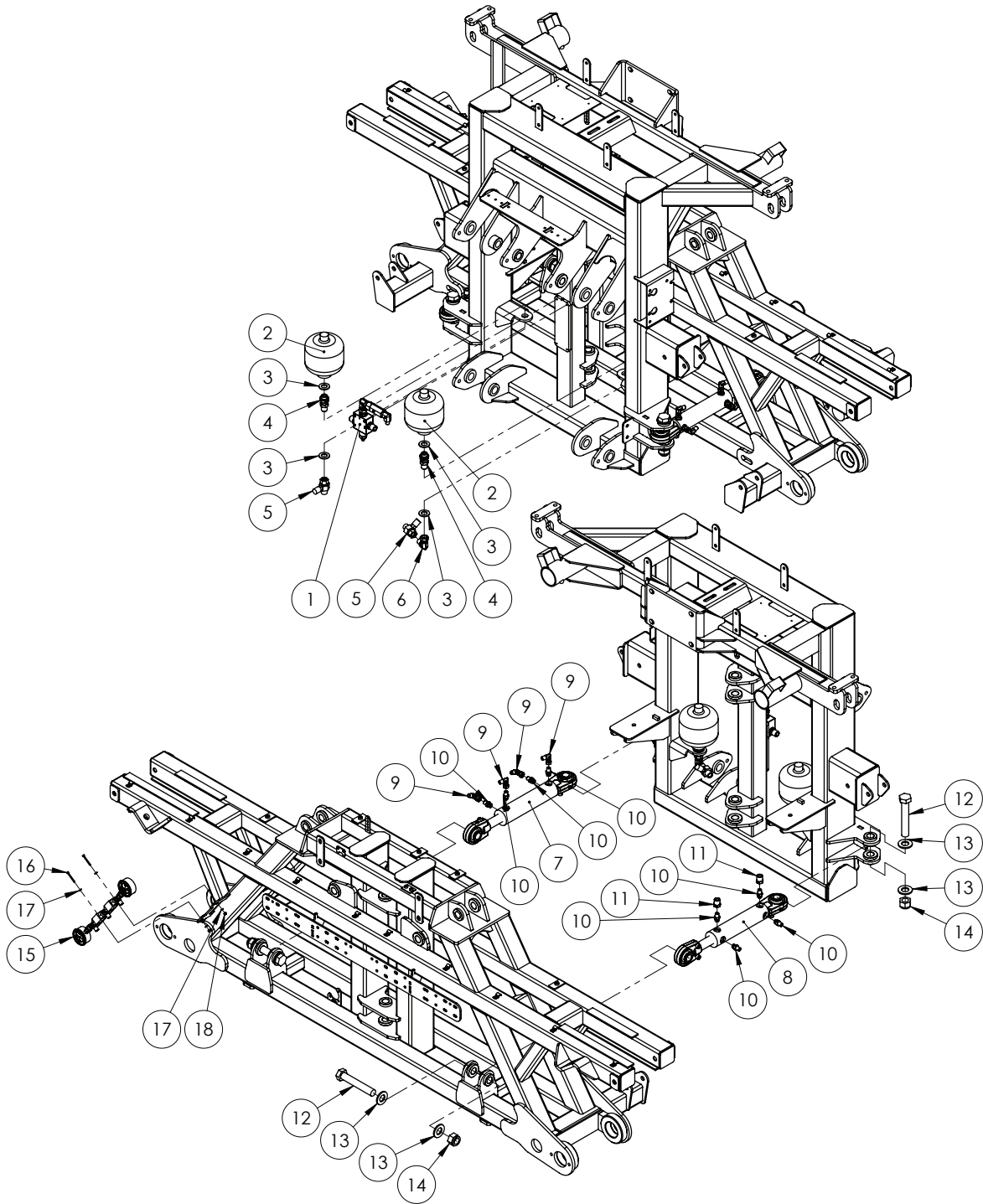
\* Sub-assembly on following pages

~ See Chapter 14 'Boom Wings' for sub-assembly

^ See Chapter 18 'Hydraulics' for sub-assembly



# 24-36m - Boom Centre - Yaw Assembly



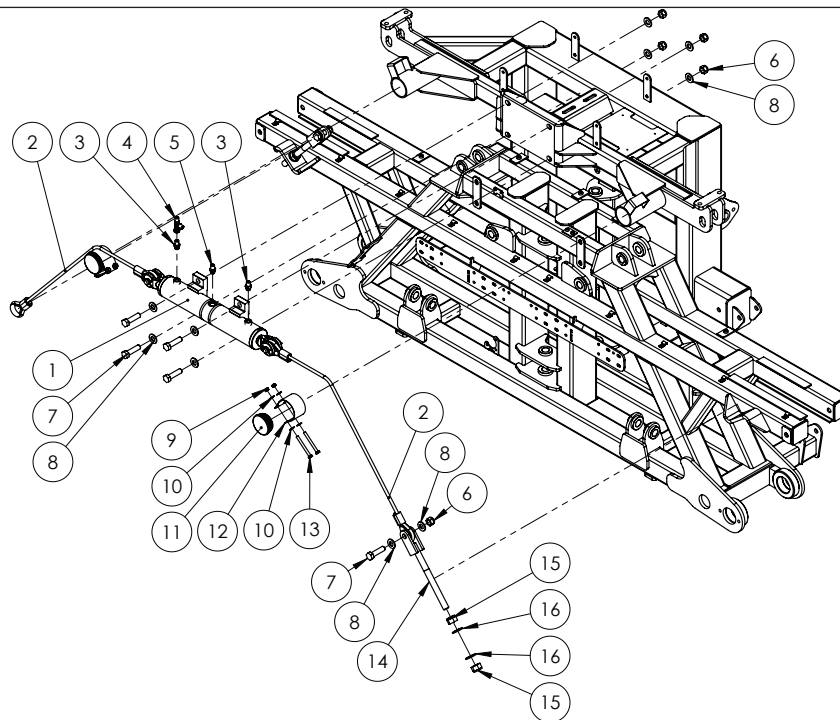
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## 24-36m - Boom Centre - Yaw Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	^	PRESSURE REDUCER VALVE ASSEMBLY	1
2	GA5007787	ACCUMULATOR, HYDRAULIC, 1L, PRECHARGED TO 70 BAR	2
3	GA5001741	WASHER 20MM FLAT SS HD	4
4	GAS99-603	HYDRAULIC ADAPTOR, BULKHEAD NIPPLE, 1/2 BSP MALE X 1/2 BSP MALE	2
5	GA3500198	HYDRAULIC ADAPTOR, INLINE TEST POINT, 1/2" BSPP FEMALE SWIVEL X 1/2" BSPT MALE X M16 X 2.0 TEST PORT	2
6	GA3500333	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	1
7	^	HYDRAULIC CYLINDER - YAW LEFT SIDE	1
8	^	HYDRAULIC CYLINDER - YAW RIGHT SIDE	1
9	GA3500332	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL	4
10	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	8
11	GA3500203	HYDRAULIC ADAPTOR, REDUCING BUSH, 1/2" BSPT MALE X 1/4" BSPT FEMALE	2
12	GA4683145	BOLT 1" UNC X 6" CUT DOWN FROM 7"	4
13	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	8
14	GA5012439	NUT 1" UNC NYLOC ZP	4
15	^	YAW CONTROL VALVE ASSEMBLY	1
16	GA5049800	SHCS M4 X 40 GR12.9 ZP	2
17	GA5011361	WASHER 4MM FLAT SS	4
18	GA5049025	NUT M4 NYLOC SS	2

^ See Chapter 18 'Hydraulics' for sub-assembly

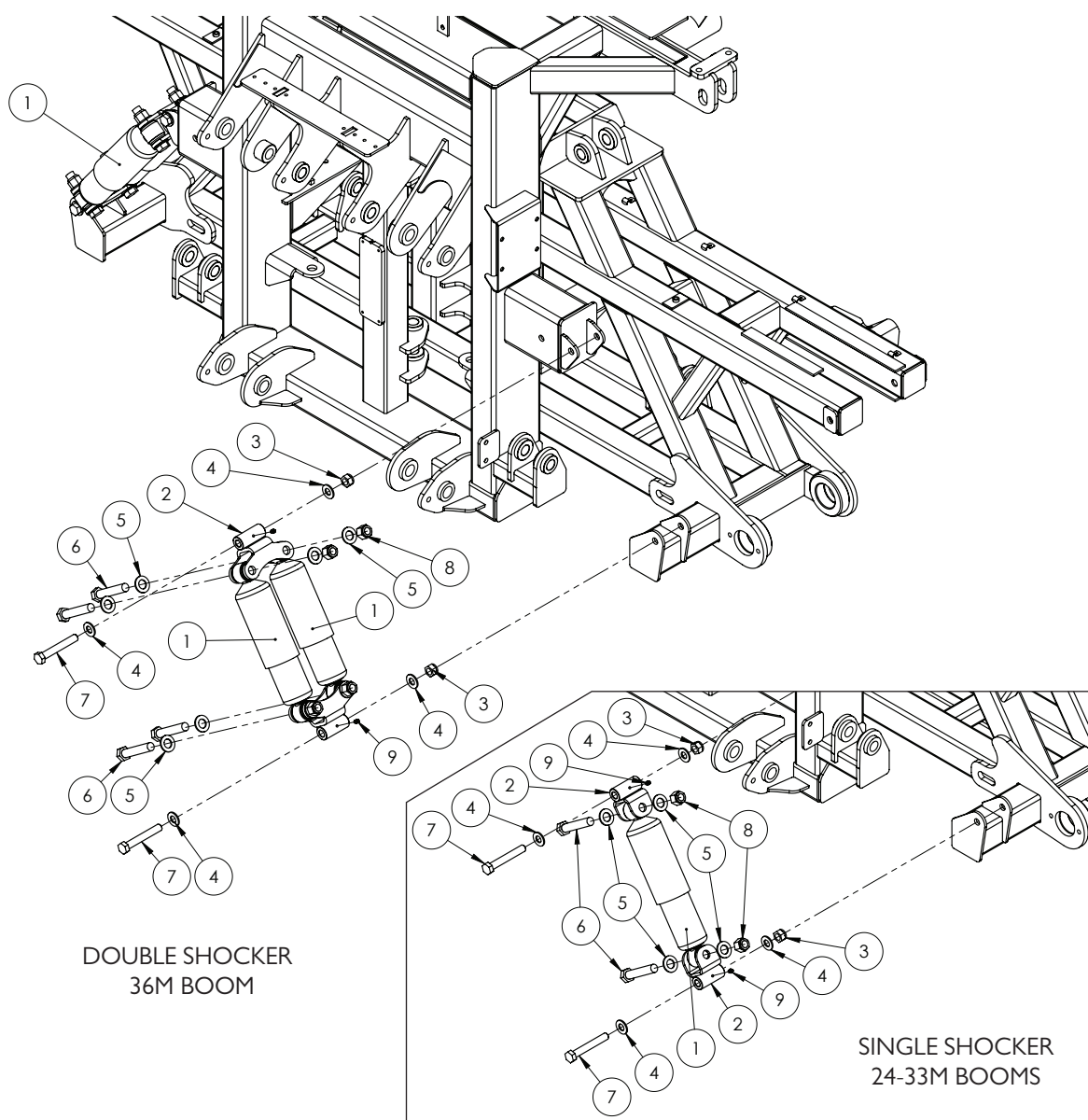
## 24-36m - Boom Centre - Level



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500477 <sup>^</sup>	HYDRAULIC CYLINDER, BORE 2.5", ROD 1", STROKE 110MM, BACK TO BACK	1
	GA1100037	CENTRE LOCK CABLE KIT	2
	GA5000215	THIMBLE, 11 - 12, SUIT 10MM CABLE	4
2	GA5000073	CABLE, 10MM, SOLID CORE, HEAVY DUTY, GALVANISED, SPECIFY LENGTH AT TIME OF ORDER	2
	GA5005391	FERRULE, ALUMINIUM, 40 LONG X 4.5MM WALL, CODE 11, SUIT 10MM CABLE	4
3	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	2
4	GA3500199	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPP FEMALE	1
5	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	1
6	GA5001029	NUT M16 NYLOC ZP	6
7	GA5000941	BOLT M16 X 60 GR8.8 ZP	6
8	GA5001009	WASHER 16MM FLAT ZP HD	12
9	GA5052590	NUT M8 NYLOC SS	4
10	GA5003643	WASHER 8MM FLAT ZP HD	8
11	GA5050355	END CAP, 76.1 MM ROUND, SUIT 65 NB PIPE, BLACK PLASTIC	2
12	GA4506750	WEAR STRIP SS FOR CENTRE LEVELING CABLES	2
13	GA5022480	BOLT M8 X 100 SS A2-70	4
14	GA5020320	CABLE ADJUSTER, THREADED, M20	2
15	GA5048125	NUT M20 NYLOC COARSE ZP	4
16	GA5001741	WASHER 20MM FLAT SS HD	4

<sup>^</sup> See Chapter 18 'Hydraulics' for sub-assembly

## 24-36m - Roll Shocker Assembly



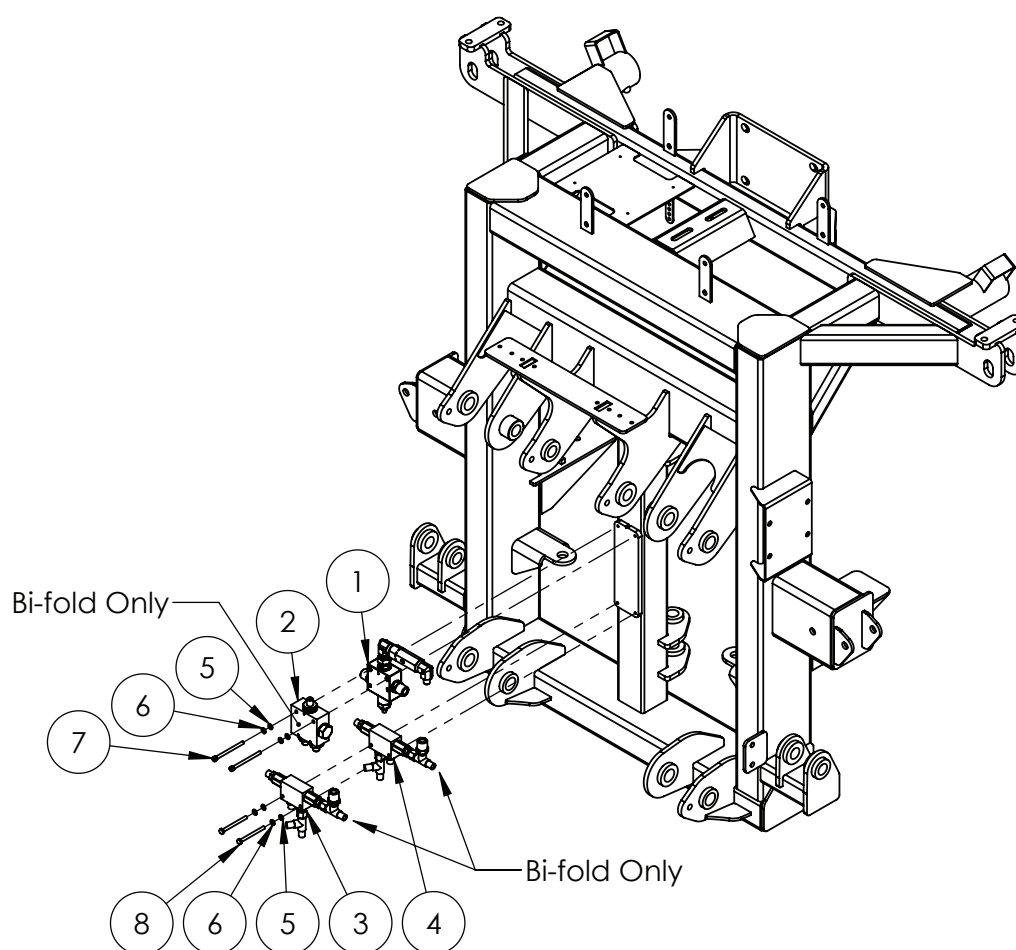
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5015139	SHOCK ABSORBER, DOUBLE EYE, 19MM EYE, 82MM OD - 24-33M BOOM	2
		SHOCK ABSORBER, DOUBLE EYE, 19MM EYE, 82MM OD - 36M BOOM	4
2	GA4658140	MOUNTING BRACKET, SINGLE ROLL SHOCK ABSORBER - 24-33M BOOM	4
	GA4659360	MOUNTING BRACKET, DUAL ROLL SHOCK ABSORBER - 36M BOOM	4
3	GA5048430	NUT, NYLOC, 3/4" UNC, ZP	8
4	GA5001043	WASHER 16MM FLAT SS HD	8

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## 24-36m - Roll Shocker Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	GA5001741	WASHER 20MM FLAT SS HD - 24-33M BOOM	8
		WASHER 20MM FLAT SS HD - 36M BOOM	16
6	GA5049490	BOLT 3/4" UNC X 4" ZP GR8 - 24-33M BOOM	4
		BOLT 3/4" UNC X 4" ZP GR8 - 36M BOOM	8
7	GA5000941	BOLT M16 X 60 GR8.8 ZP	4
8	GA5048430	NUT 3/4" UNC NYLOC ZP - 24-33M BOOM	4
		NUT 3/4" UNC NYLOC ZP - 36M BOOM	8
9	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	4

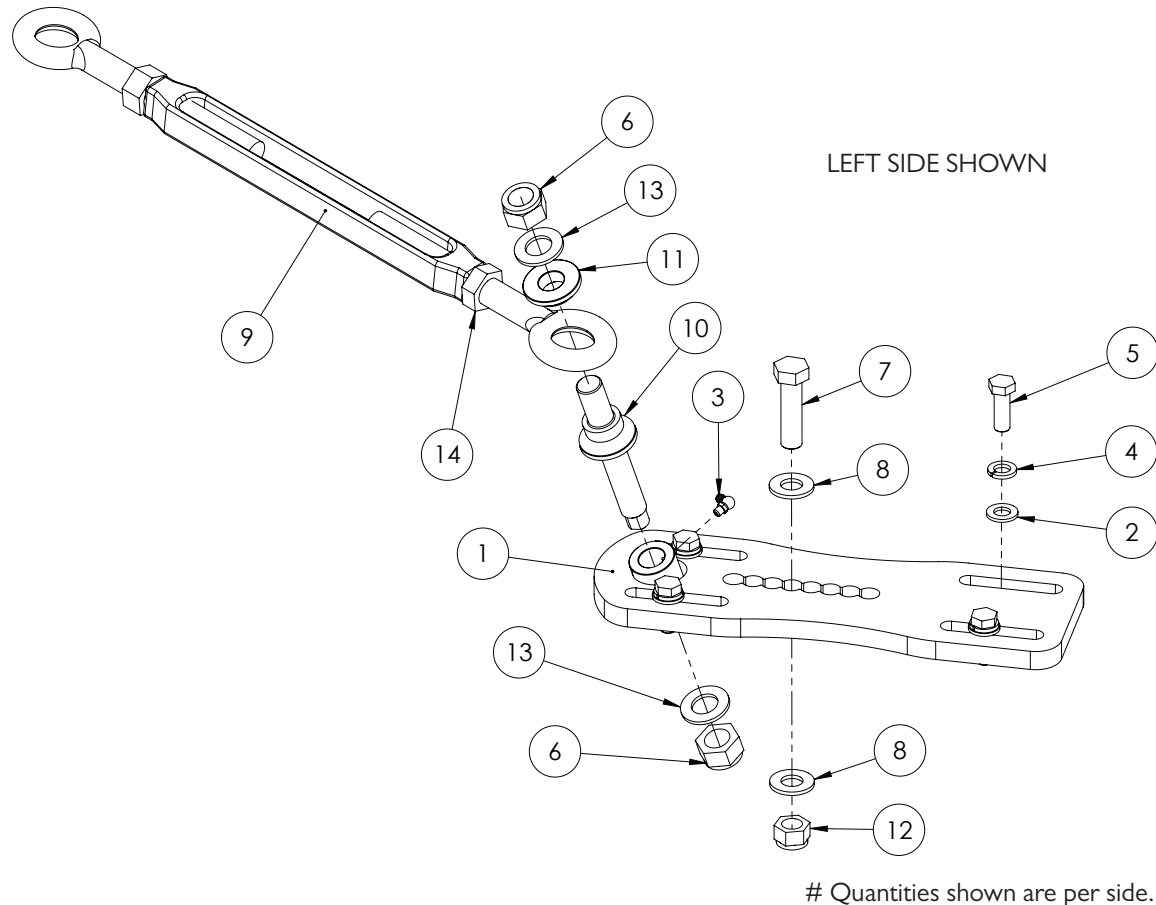
## 24-36m - Boom Centre - Flow Div. & Chk .Valves



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	^	PRESSURE REDUCER VALVE ASSEMBLY, CROP CRUISER & PRAIRIE	2
2	^	HYDRAULIC VALVE, FLOW DIVIDER, 1 - 3 L/MIN - BI-FOLD ONLY	1
3	^	DOUBLE PILOT CHECK VALVE - LH	1
4	^	DOUBLE PILOT CHECK VALVE - RH	1
5	GA5004437	WASHER 6MM FLAT SS - NO BI-FOLD	2
	GA5004437	WASHER 6MM FLAT SS - BI-FOLD	4
6	GA5004447	WASHER 6MM SPRING SS - NO BI-FOLD	2
	GA5004437	WASHER 6MM FLAT SS - BI-FOLD	4
7	GA5004091	BOLT M6 X 50 GR8.8 ZP - NO BI-FOLD	2
	GA5011441	SHCS M6 X 80 GR12.9 ZP - BI-FOLD	2
8	GA5004107	BOLT M6 X 70 GR8.8 ZP	2

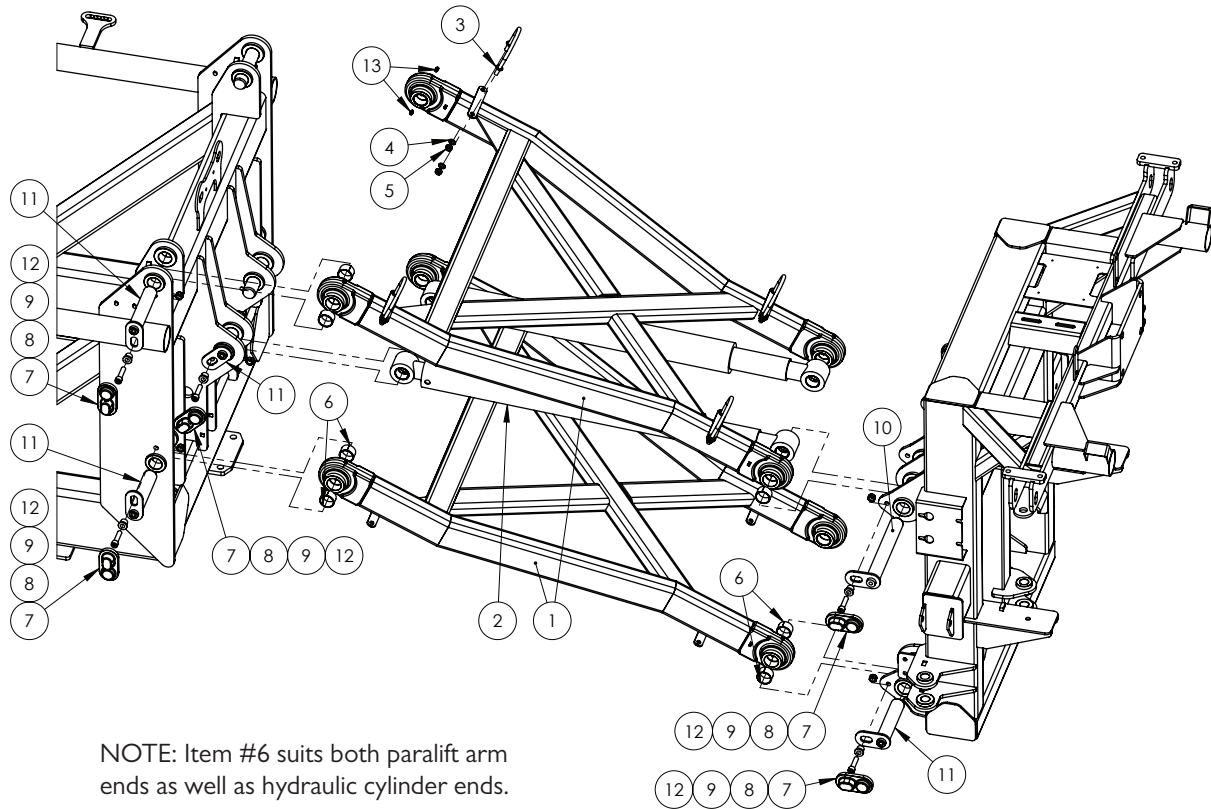
^ See Chapter 18 'Hydraulics' for sub-assembly

## 24-36m - Cable Mount Rear



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656255	SLIDE PLATE, BOOM CABLE ADJUSTER, LEFT SIDE	1
	GA4656250	SLIDE PLATE, BOOM CABLE ADJUSTER, RIGHT SIDE	
2	GA5000577	WASHER 12MM FLAT SS HD	4
3	GA5009637	GREASE NIPPLE, ELBOW, 90 DEGREE, 1/4" UNF MALE	1
4	GA5000575	WASHER 12MM SPRING SS	4
5	GA5000311	SET SCREW M12 X 35 GR 8.8 ZP	4
6	GA5048125	NUT M20 NYLOC COARSE ZP	2
7	GA5000941	BOLT M16 X 60 GR8.8 ZP	1
8	GA5001043	WASHER 16MM FLAT SS HD	2
9	GA5017061	TURNBUCKLE, EYE ENDS, M22 THREAD & LOCK NUT, GALVANISED	1
10	GA4572510	PIVOT PIN, BOOM CABLE	1
11	GA4572515	BOOM CABLE RETAINER, PIVOT PIN	1
12	GA5001029	NUT M16 NYLOC ZP	1
13	GA5001741	WASHER 20MM FLAT SS HD	2
14	GA5070430	NUT M22 LOCK NUT ZP LH THREAD	1

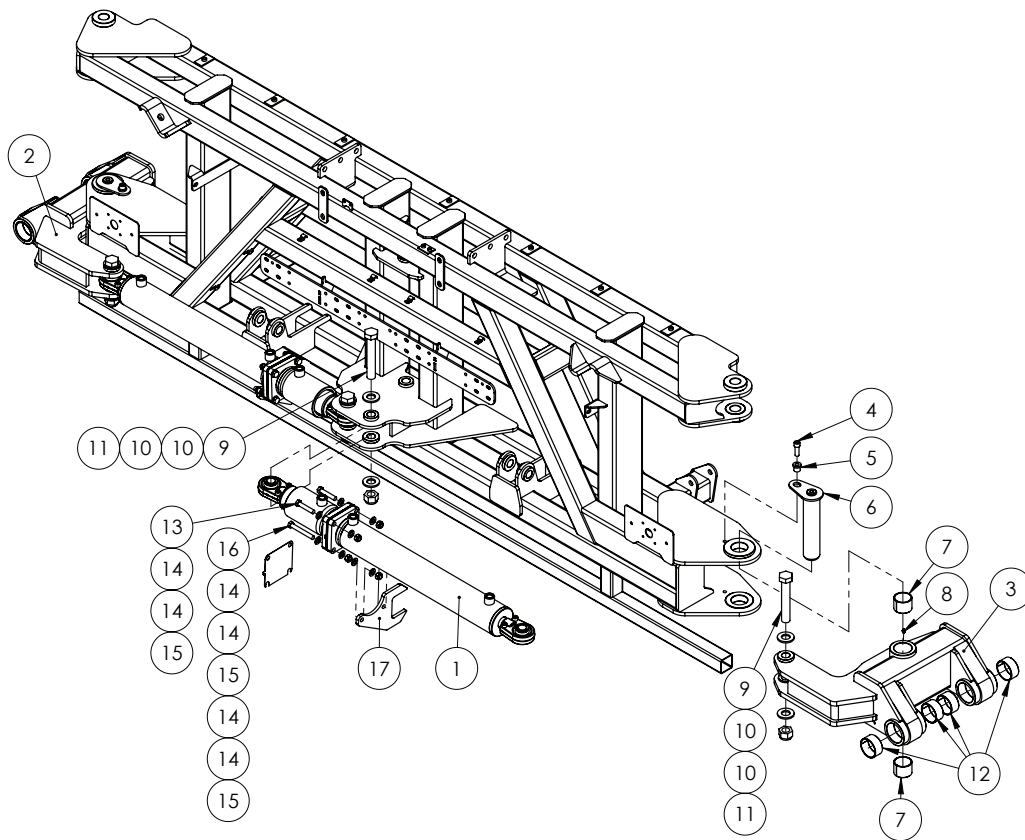
## 48m - Boom Centre - Paralift Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4661320	PARALIFT ARM, SUIT 48M BOOM	2
2	GA3500593	HYDRAULIC CYLINDER, DISPLACEMENT, 3" BORE, 2.5" ROD, 26" STROKE SUIT 1.5" PINS	2
3	GA5070905	U BOLT, ROUND TOP, M10 X 118 X 115MM, WITH STOPPER WASHERS, ZP	4
4	GA5000117	WASHER 10MM FLAT SS HD	8
5	GA5000141	NUT M10 NYLOC ZP	8
6	GA1700027	BEARING, GLACIER BUSH, 1 1/2" ID X 1" LONG	24
7	GA5067885	PIN COVER - PLASTIC	10
8	GA5051470	SHCS M12 X 50 GR12.9 ZP	10
9	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21MM LONG, PARALIFT PIN BOLTS	10
10	GA5073465	PIN, 1 1/2", SUIT PARALIFT ARM AND CYLINDER, CHROME PLATED	2
11	GA5073460	PIN, 1 1/2", SUIT PARALIFT ARM, CHROME PLATED	8
12	GA5012461	NUT M12 NYLOC ZP	10
13	GA5050450	GREASE NIPPLE 6MM	16



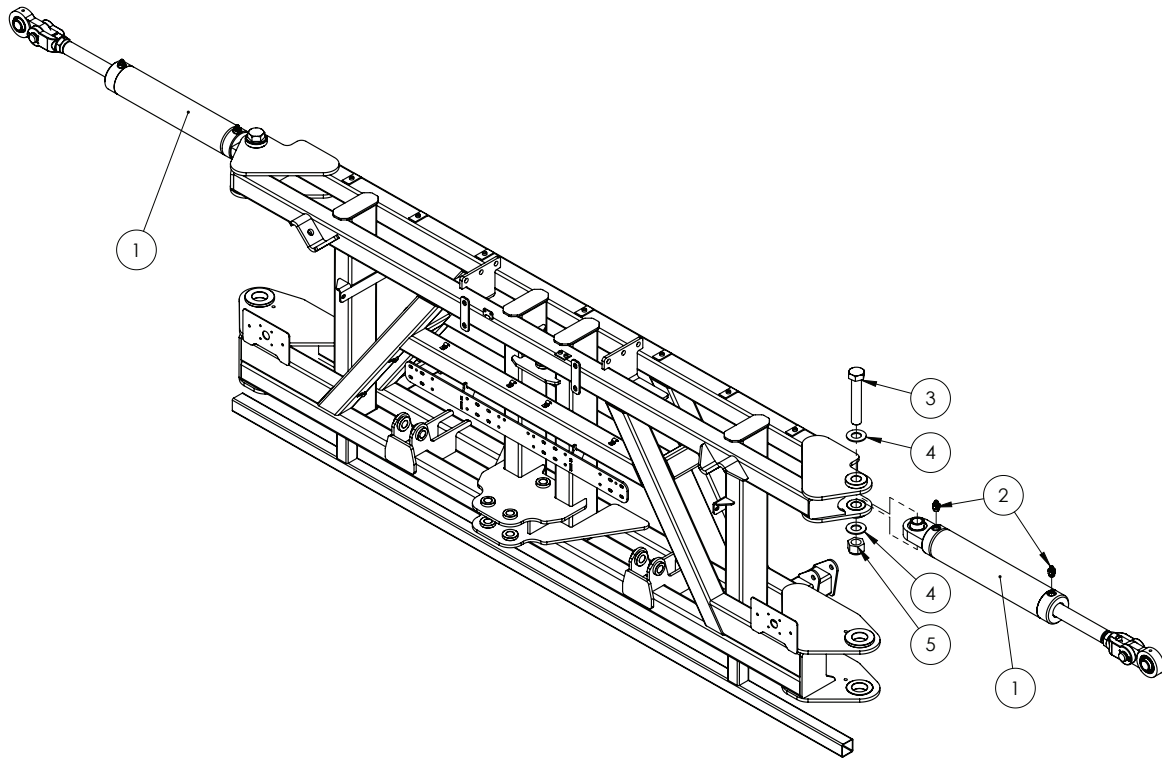
## 48m - Boom Centre - First Stage Fold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4500975	PLATE, SHIM, 1MM, FOLD CYLINDER, 48M BOOM	-
1	GA3500475^	HYDRAULIC CYLINDER, BORE 3.25", ROD 1.5", STROKE 530MM AND 26MM, BACK TO BACK	2
2	GA4600610	BOOM MOUNT HINGE, LH, 48M BOOM	1
3	GA4600615	BOOM MOUNT HINGE, RH, 48M BOOM	1
4	GA5000313	SHCS M12 X 35 GR12.9 ZP	2
5	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21 MM LONG, PARALIFT PIN BOLTS	2
6	GA4600620	PIN, BOOM FOLD PIVOT, 50MM OD, FABRICATED, 48M	2
7	GA1700012	BEARING, GLACIER BUSH, 50MM ID X 40MM LONG	4
8	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	4
9	GA4683145	BOLT 1" UNC X 6" - CUT DOWN FROM 7"	4
10	GA5017659	WASHER 1" FLAT ZP HD (5MM THICK)	8
11	GA5012439	NUT 1" UNC NYLOC ZP	4
12	GA1700011	BEARING, GLACIER BUSH, 60MM ID X 30MM LONG	8
13	GA5000335	BOLT M12 X 60 GR8.8 ZP	4
14	GA5000577	WASHER 12MM FLAT SS HD	24
15	GA5012461	NUT M12 NYLOC ZP	12
16	GA5011263	BOLT M12 X 90 GR8.8 ZP	4
17	GA5073235	ANTI ROTATION BRACKET, HYDRAULIC FOLD CYLINDER, 48M BOOM	2

^ See Chapter 18 'Hydraulics' for sub-assembly

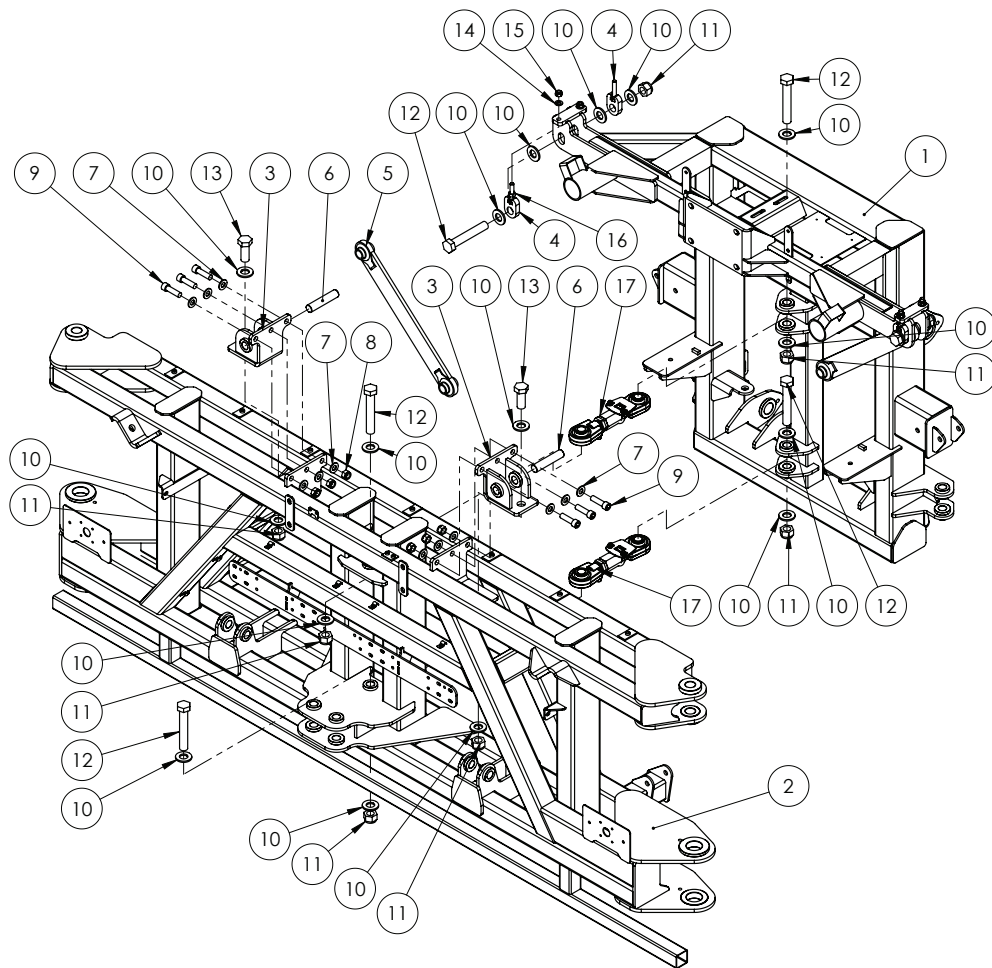
## 48m - Boom Centre - Tilt Rams



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500478^	HYDRAULIC CYLINDER, BORE 3.5", ROD 1.75", STROKE 200MM	2
2	GA3500147	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 3/4" UN MALE O-RING	4
3	GA0500074	BOLT, 1 1/4" X 7" UNC, ZP, GR8	2
4	GA0500072	WASHER, 1 1/4", ZP	4
5	GA0500071	NUT, 1 1/4", NYLOC, ZP, UNC	2

^ See Chapter 18 'Hydraulics' for sub-assembly

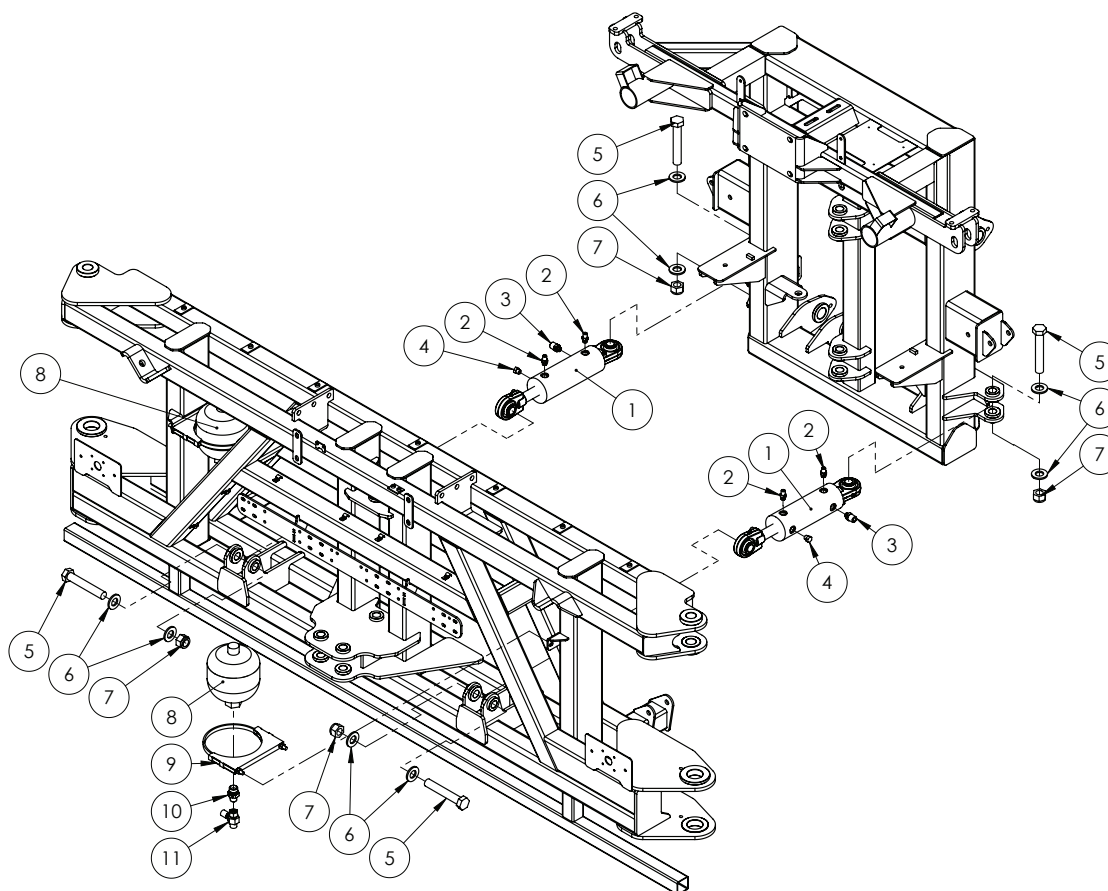
## 48m - Boom Centre - Delta Links



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4600630	PARALIFT REAR, 48M BOOM	1
2	GA4600600	CENTRE SECTION, 48M BOOM	1
3	GA4600605	DELTA LINK MOUNT, CENTRE SECTION, 48M BOOM	2
4	GA4656260	ADJUSTER BOLT, DELTA LINK HANGER	4
5	GA4656240	DELTA LINK, LONG	2
6	GA4550495	PIN, DELTA LINK CENTRE SECTION MOUNT, 1" OD X 120MM LONG	2
7	GA5001009	WASHER 16MM FLAT ZP HD	12
8	GA5001029	NUT M16 NYLOC ZP	6
9	GA5003687	SHCS M16 X 55 GR12.9 ZP	6
10	GA5017659	WASHER 1 FLAT ZP HD (5MM THICK)	20
11	GA5012439	NUT 1" UNC NYLOC ZP	8
12	GA4683145	BOLT 1" UNC X 6" CUT DOWN FROM 7"	6
13	GA0500027	SET SCREW, 1" X 2 1/2" UNF 12 TPI, ZP	2
14	GA5000577	WASHER 12MM FLAT SS HD	4
15	GA5012461	NUT M12 NYLOC ZP	4
16	GA5000559	NUT M12 HEX ZP	4
17	*	DELTA LINK	2

\* Sub-assembly on following pages

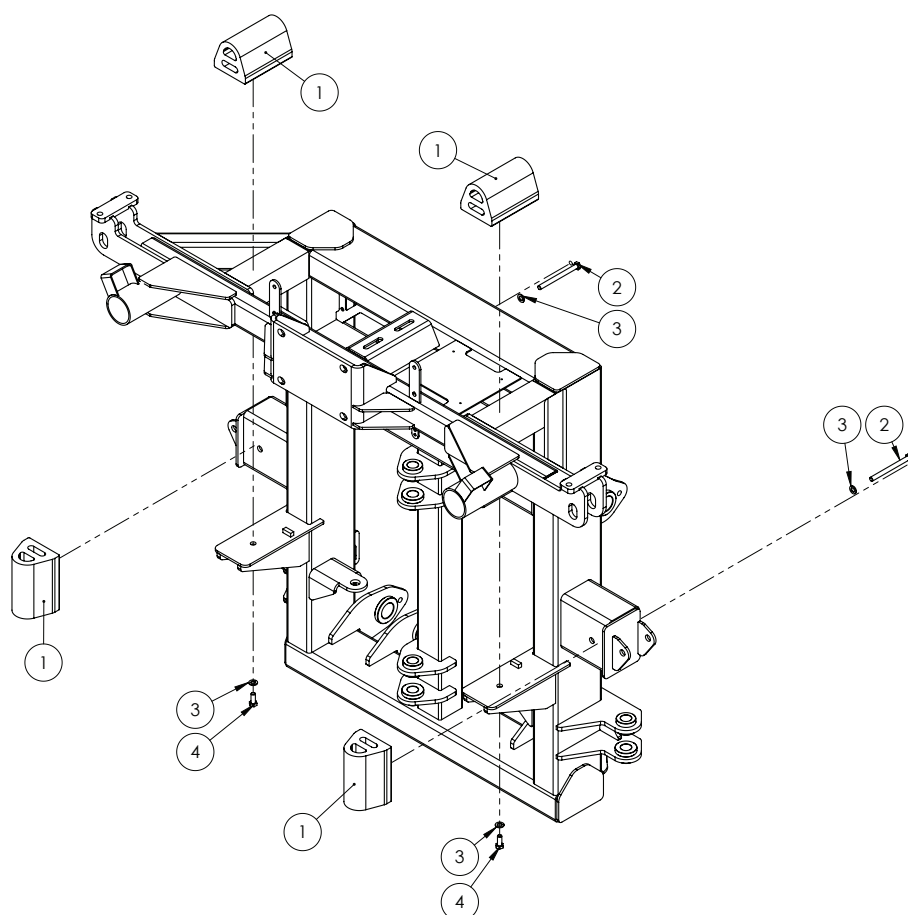
## 48m - Boom Centre - Yaw



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060818^	HYDRAULIC CYLINDER, BORE 3", ROD 1.25", STROKE 117.5MM	2
2	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	4
3	GA3500362	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 9/16" UN MALE O-RING	2
4	GA3500380	HYDRAULIC ADAPTOR, PLUG, 9/16" UN MALE O-RING	2
5	GA4683145	BOLT 1" UNC X 6" CUT DOWN FROM 7"	4
6	GA5017659	WASHER 1" FLAT ZP HD (5MM THICK)	8
7	GA5012439	NUT 1" UNC NYLOC ZP	4
8	GA3500021	ACCUMULATOR, HYDRAULIC, 2L, 90 BAR PRE CHARGE, SUIT 42M YAW	2
9	GA5070025	CLAMP EXHAUST 7"	2
10	GA3500312	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/4" BSPP MALE	2
11	GA3500198	HYDRAULIC ADAPTOR, INLINE TEST POINT, 1/2" BSPP FEMALE SWIVEL X 1/2" BSPT MALE X M16 X 2.0 TEST PORT	2

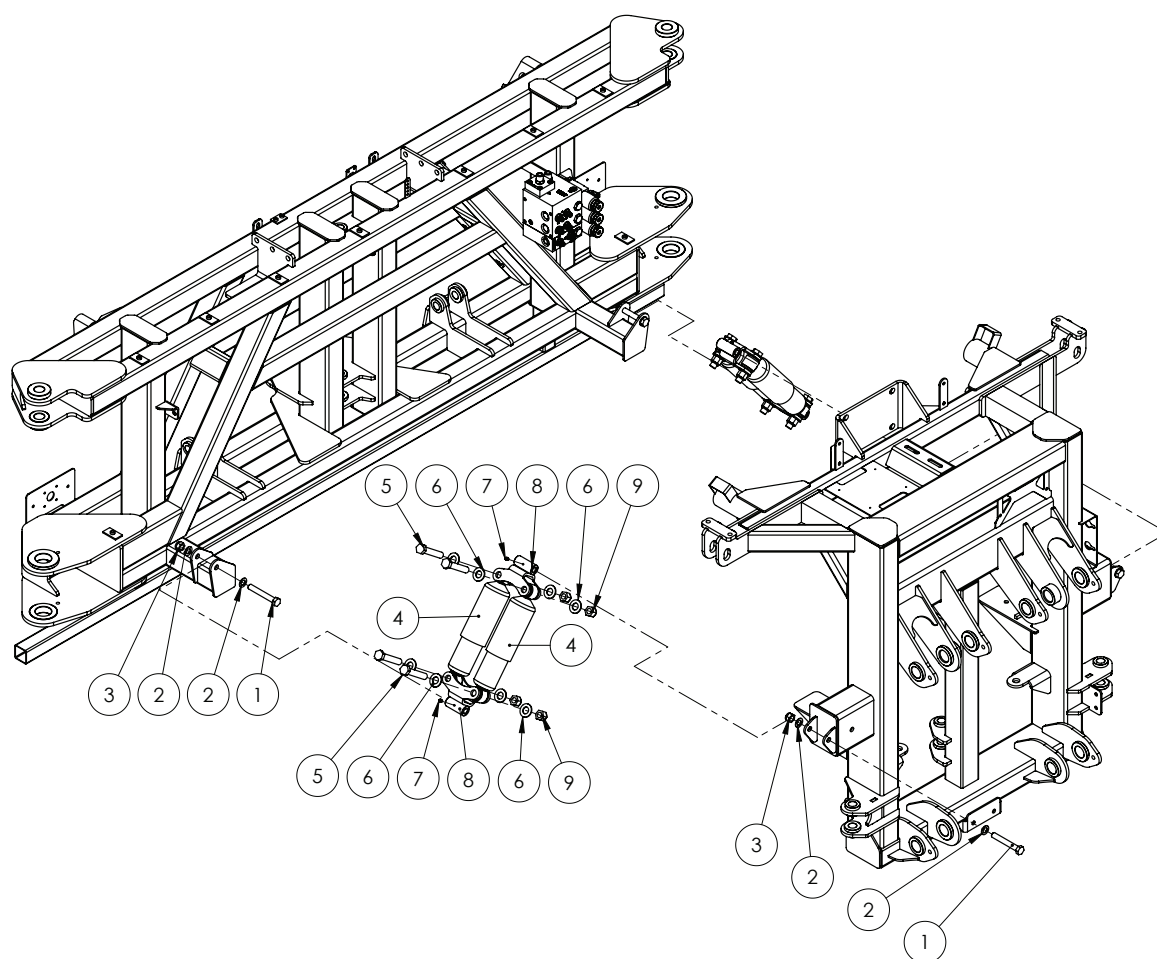
^ See Chapter 18 'Hydraulics' for sub-assembly

## 48m - Boom Centre - Bump Stops



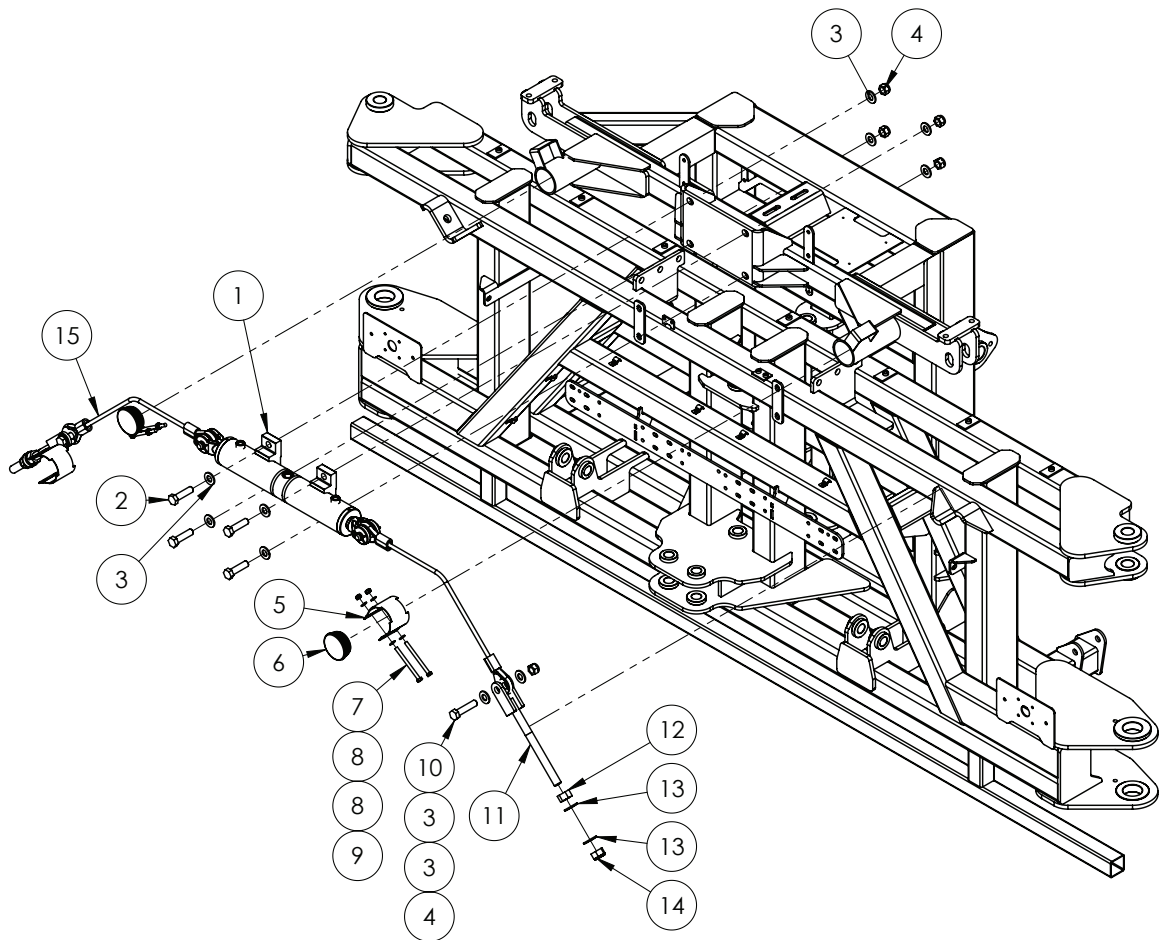
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075240	BUMP STOP RUBBER WITH THREADED INSERT	4
2	GA5011143	BOLT M10 X 120 GR8.8 ZP	2
3	GA5000117	WASHER 10MM FLAT SS HD	4
4	GA5006161	BOLT M10 X 25 GR8.8 ZP	2

## 48m - Boom Centre - Roll Shockers



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5000855	BOLT M16 X 110 GR8.8 ZP	4
2	GA5001055	WASHER 16MM FLAT SS	8
3	GA5001029	NUT M16 NYLOC ZP	4
4	GA5015139	SHOCK ABSORBER, DOUBLE EYE, 19MM EYE, 82MM OD, BLACK	4
5	GA5049490	BOLT 3/4" UNC X 4" GR8 ZP	8
6	GA5001045	WASHER 3/4" FLAT ZP	16
7	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	4
8	GA4659360	MOUNTING BRACKET, DUAL ROLL SHOCK ABSORBER, TRI TECH CENTRE	4
9	GA5048430	NUT 3/4" UNC NYLOC ZP	8

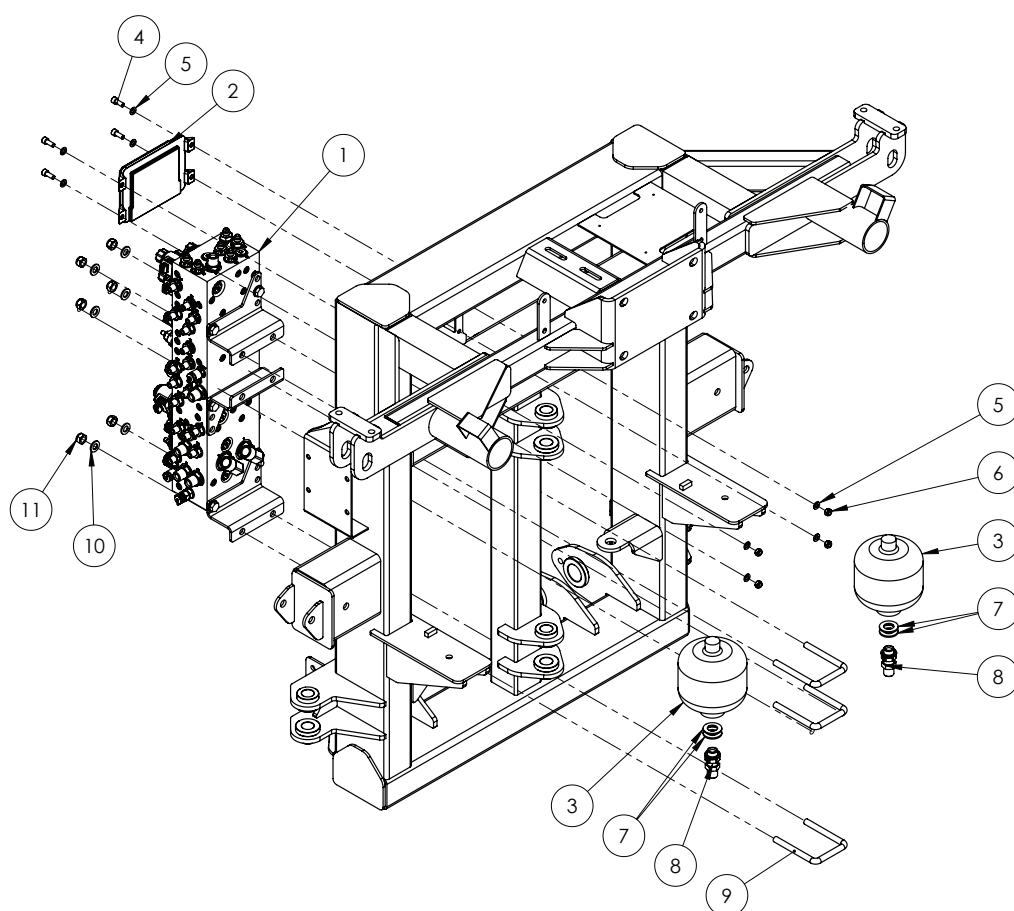
## 48m - Boom Centre - Level



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500477^	HYDRAULIC CYLINDER, BORE 2.5", ROD 1", STROKE 110MM, BACK TO BACK	1
2	GA5000941	BOLT M16 X 60 GR8.8 ZP	4
3	GA5001009	WASHER 16MM FLAT ZP HD	12
4	GA5001029	NUT M16 NYLOC ZP	6
5	GA4506750	WEAR STRIP SS FOR CENTRE LEVELING CABLES	2
6	GA5050355	END CAP, PLASTIC, BLACK, INSERT, ROUND. 76.2MM, 3.2 - 5.0MM WALL	2
7	GA5022480	BOLT M8 X 100 SS A2-70	4
8	GA5003643	WASHER 8MM FLAT SS HD	8
9	GA5052590	NUT M8 NYLOC SS	4
10	GA5000949	BOLT M16 X 70 GR8.8 ZP	2
11	GA5020320	CABLE ADJUSTER, THREADED, M20	2
12	GA5001709	NUT M20 COARSE ZP	2
13	GA5001741	WASHER 20MM FLAT SS HD	4
14	GA5048125	NUT M20 NYLOC COARSE ZP	2
15	GA4908675	CABLE, CENTRE LEVEL LOCK, ASSEMBLY, 48M BOOM	2

^ See Chapter 18 'Hydraulics' for sub-assembly

## 48m - Boom Centre - Hydraulic Control Manifold

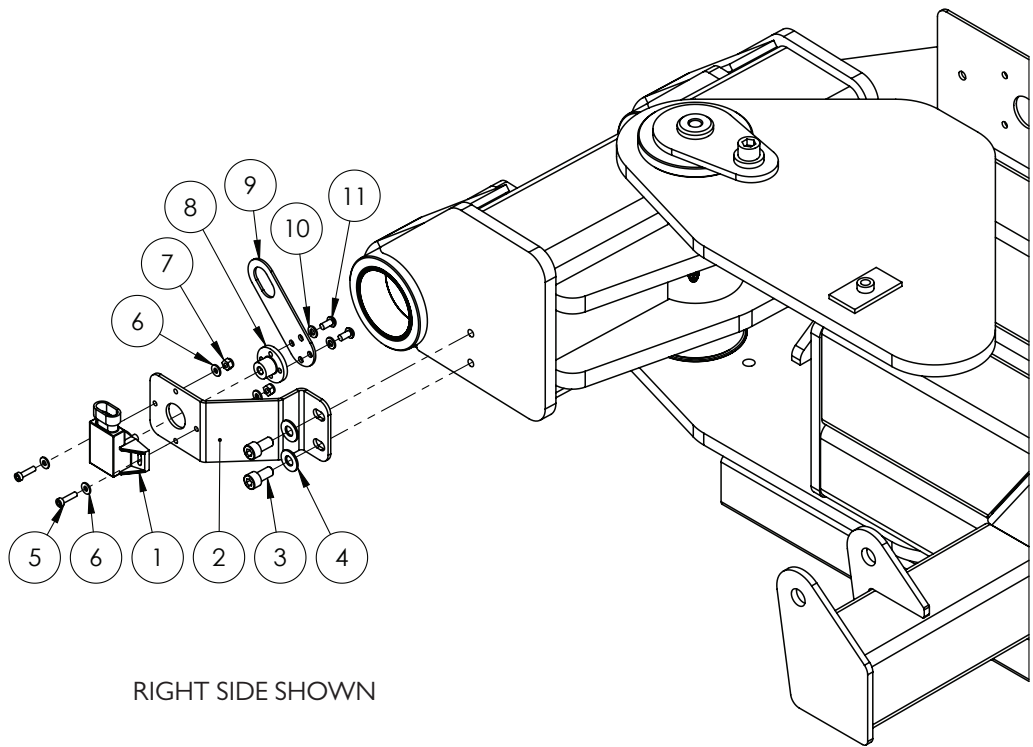


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	^	HYDRAULIC CONTROL MANIFOLD ASSEMBLY, 48M BOOM	1
2	GA3000216	PLC, PROGRAMMABLE LOGIC CONTROLLER, SUIT 48M BOOM, HYDAC TTCONTROL, HY-TTC 60	1
3	GA5007787	ACCUMULATOR, HYDRAULIC, 1L, PRECHARGED TO 70 BAR	2
4	GA5004707	SHCS M8 X 20 GR12.9 ZP	4
5	GA5003643	WASHER 8MM FLAT SS HD	8
6	GA5004917	NUT M8 NYLOC ZP	4
7	GA5001741	WASHER 20MM FLAT SS HD	4
8	GAS99-603	HYDRAULIC ADAPTOR, BULKHEAD NIPPLE, 1/2" BSP MALE X 1/2" BSP MALE	2
9	GA5011259	U BOLT SQUARE TOP M12 X 76MM X 110MM	3
10	GA5000577	WASHER 12MM FLAT SS HD	6
11	GA5012461	NUT M12 NYLOC ZP	6

^ See Chapter 18 'Hydraulics' for sub-assembly



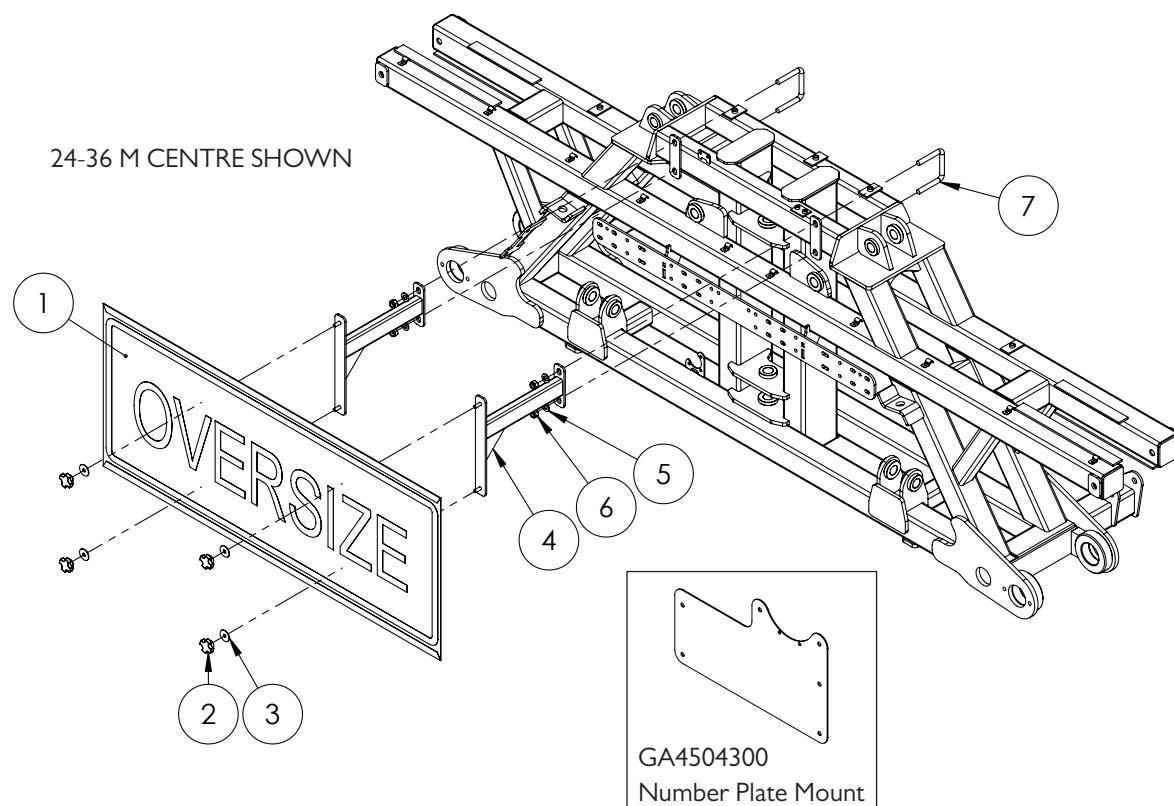
# 48m - Boom Centre - Tilt Sensor



# Quantities shown are per side.

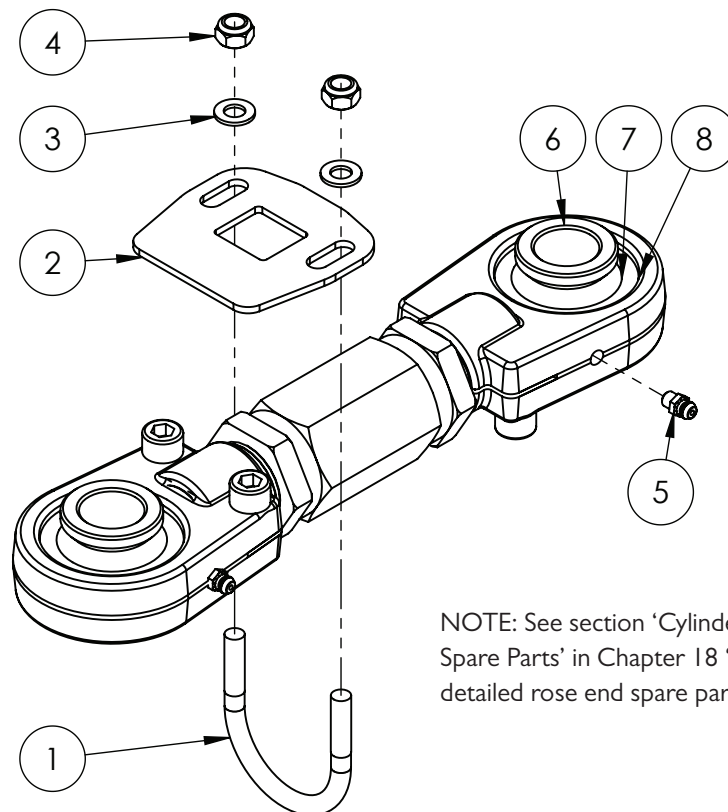
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5069455	POTENTIOMETER, 60 DEGREE, ELOBAU, GATMC	1
2	GA4403655	PLATE, BRACKET, TILT SENSOR, 48M BOOM	1
3	GA5050690	SHCS M8 X 16 GR12.9 ZP	2
4	GA5003643	WASHER 8MM FLAT SS HD	2
5	GA5011363	M4 X 16 SHCS	2
6	GA5020510	WASHER 4MM FLAT SS	4
7	GA5049025	NUT M4 NYLOC SS	2
8	GA4552855	BUSH-TILT SENSOR SWITCH	1
	GA5069970	M5 GRUB SCREW X 5MM LONG SS	1
9	GA4403660	PLATE, GUIDE, TILT SENSOR, 48M BOOM	1
10	GA5003983	WASHER 5MM FLAT SS	2
11	-	BHCS M5 X 10	2

## Oversize Sign Mount - 24-48m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5009613	OVERSIZE SIGN, YELLOW, REFLECTIVE WITH FOLDED EDGES	1
2	GA5069875	KNOB, STAR GRIP NUT M8 X 40 DIAMETER	4
3	GA5003645	WASHER 5/16 ID X 1 1/4 OD FLAT SS	4
4	GA4658150	BRACKET, OVERSIZE SIGN MOUNT ARM, BOLT ON	2
5	GA5012461	NUT M12 NYLOC ZP	4
6	GA5000577	WASHER 12MM FLAT SS HD	4
7	GA5075160	U BOLT, SQUARE TOP M12 X 76 X 80	2

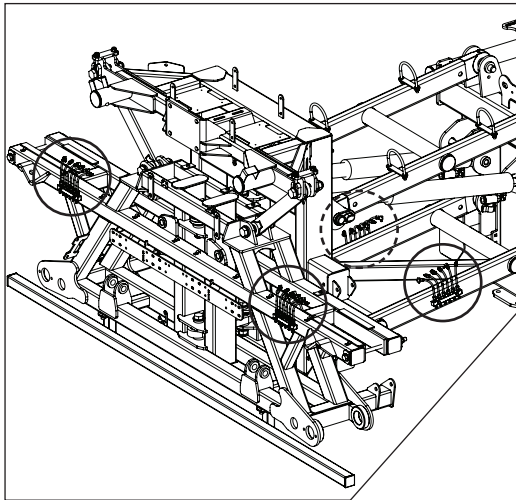
## Delta Link - 24-48m



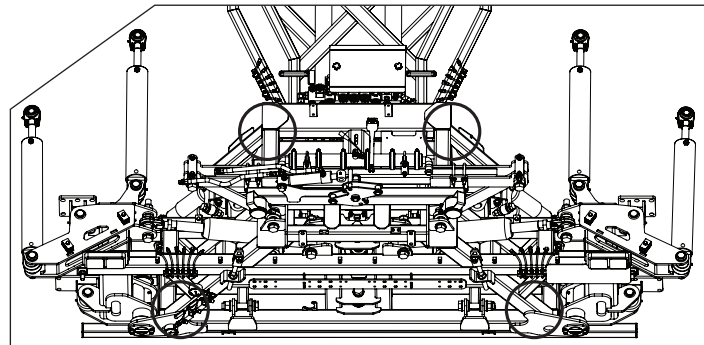
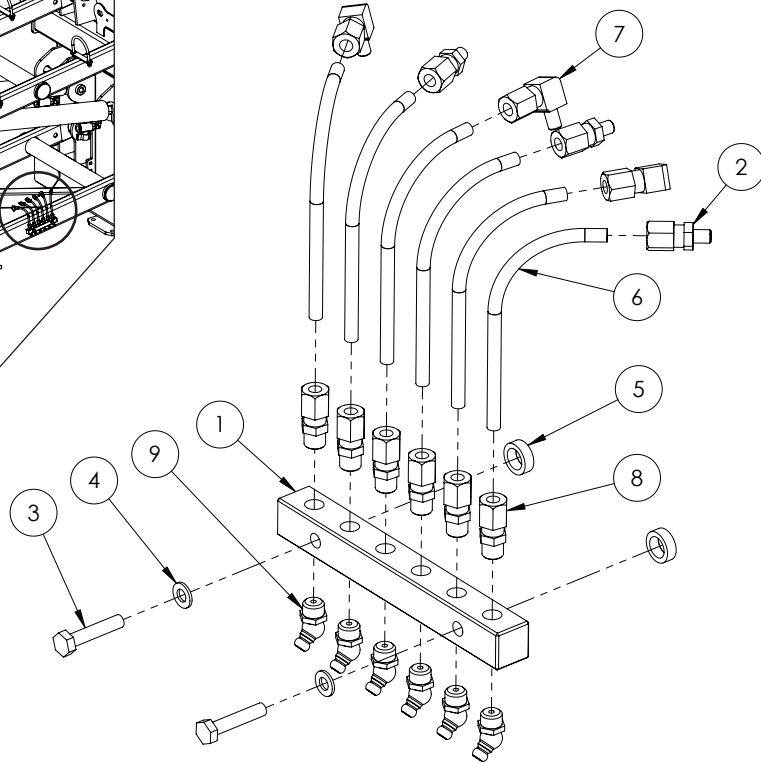
NOTE: See section 'Cylinder Rose End - Spare Parts' in Chapter 18 'Hydraulics' for detailed rose end spare parts availability.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	DELTA-LINKSA	DELTA LINK, SHORT, HEAVY DUTY, ADJUSTABLE - LOCKING PLATE NOT INCLUDED	-
1	GA4524140	LOCKING PLATE, SUIT ADJUSTABLE DELTA LINK SS	1
2	GA5018245	U BOLT, ROUND TOP, M8 X 50 X 60MM	1
3	GA5052590	NUT M8 NYLOC SS	2
4	GA5003643	WASHER 8MM FLAT SS HD	2
5	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
6	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	4
7	GA5067605	BEARING, SUIT SCREW ON ROSE END	2
8	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END	2

## Remote Manual Grease Station - 24-48m



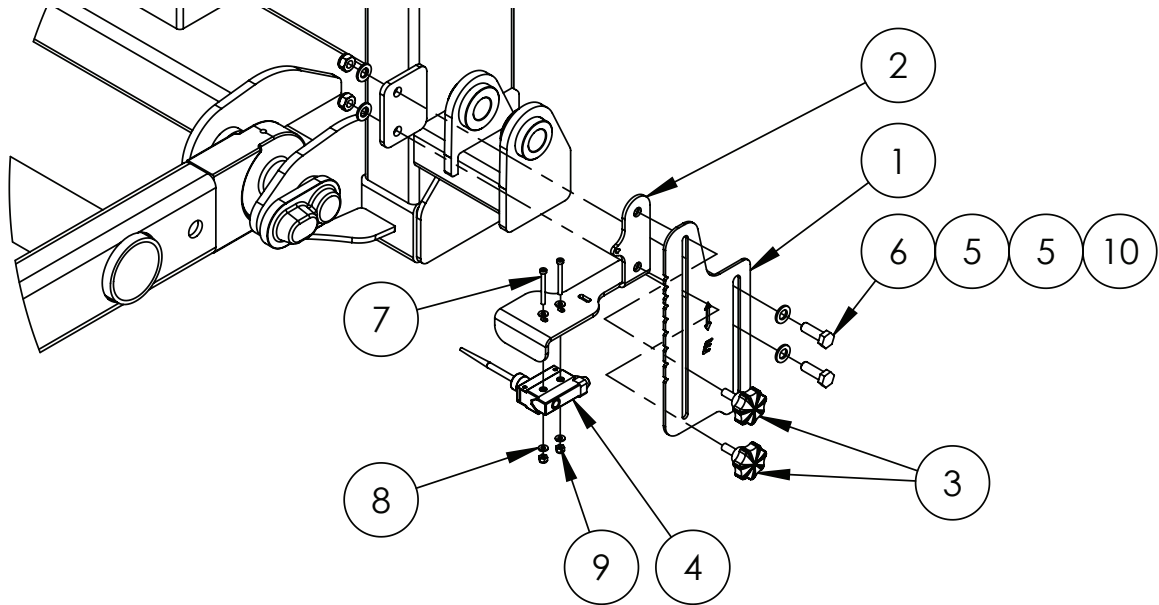
MANUAL GREASE STATION  
LOCATIONS 24-36 M



MANUAL GREASE STATION  
LOCATIONS 48 M

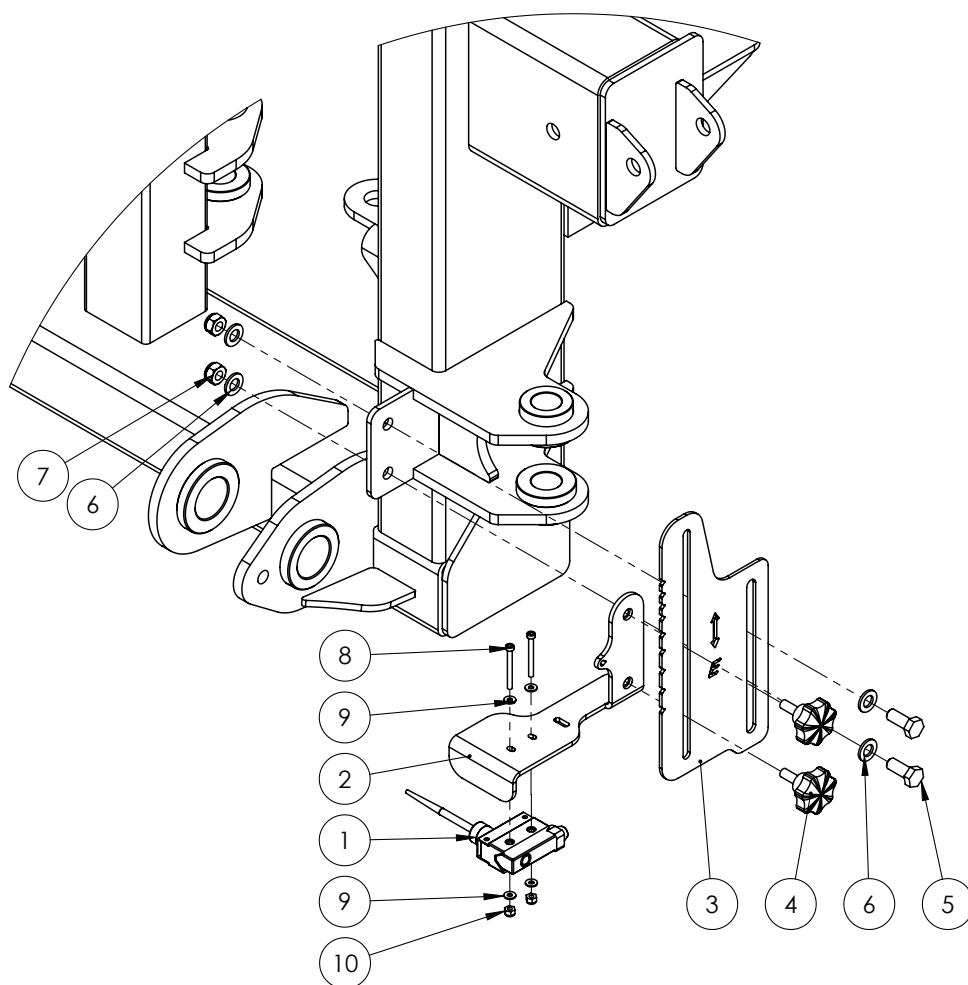
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070000	GREASE FITTING ASSEMBLY - INCLUDES GA5069995 & GA5055125	1
2	GA5069985	GREASE FITTING LINE CONNECTOR STRAIGHT 6MM	3
3	GA5004079	SET SCREW M6 X 30 ZP GR8.8	2
4	GA5004437	WASHER 6MM FLAT SS	2
5	GA4552080	CRUSH TUBE, 10.2 ID X 15 OD X 5MM LONG	2
6	GA5070005	GREASE LINE 6MM PRE FILLED	6
7	GA5069995	GREASE FITTING, ELBOW 90 DEGREE, LINE CONNECTOR 6MM	3
8	GA5055225	PNEUMATIC FITTING, STRAIGHT ADAPTOR, 1/8" BSP MALE THREAD X NUT RETAINER SUIT 6 MM TUBE	6
9	GA5055125	GREASE NIPPLE 45 DEGREE 1/8" GAS THREAD ZP	6

## Lower Limit Switch - 24-36m



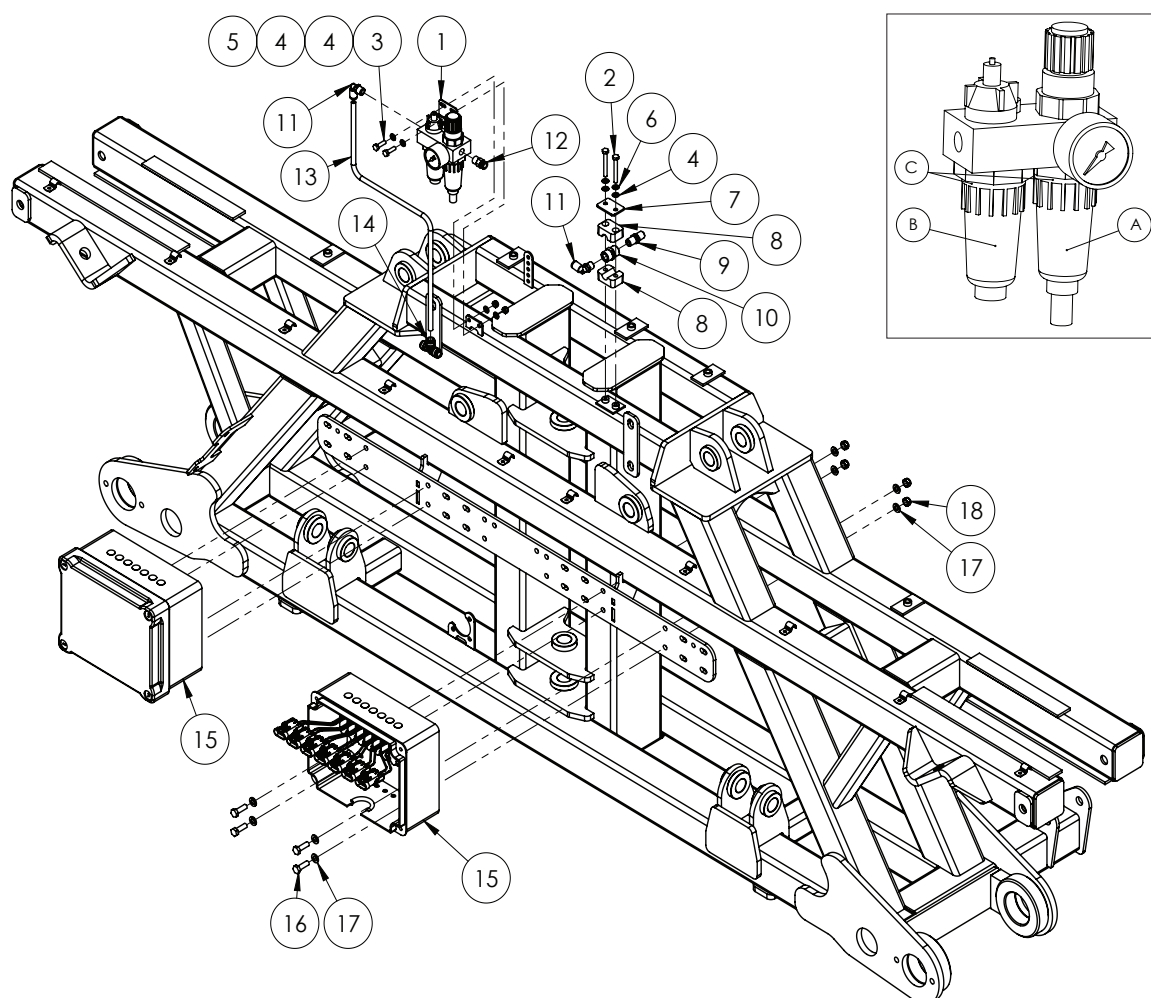
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4523965	BOOM HEIGHT ADJUSTMENT BRACKET	1
2	GA4654161	PARALIFT SWITCH BRACKET	1
3	GA5067080	M8 X 20 PLASTIC KNOB BOLT	2
4	GA5012129	LIMIT SWITCH, FLEXIBLE ARM, MICRO, IP65, 10 AMP	1
5	GA5000117	WASHER 10 MM FLAT SS HD	4
6	GA5065455	BOLT M10 X 30 GR8.8 ZP	2
7	GA5049800	SHCS M4 X 40 GR12.9 ZP	2
8	GA5020510	WASHER 4MM FLAT SS	4
9	GA5049025	NUT M4 NYLOC SS	2
10	GA5000141	NUT M10 NYLOC ZP	2

## Lower Limit Switch - 48m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5012129	LIMIT SWITCH, FLEXIBLE ARM, MICRO, IP65, 10 AMP	1
2	GA4654161	BRACKET MOUNT PARALIFT SWITCH	1
3	GA4523965	BOOM HEIGHT ADJUSTMENT BRACKET	1
4	GA5067080	KNOB BOLT M8 X 20	2
5	GA5006161	BOLT M10 X 25 GR8.8 ZP	2
6	GA5000117	WASHER 10MM FLAT SS HD	4
7	GA5051445	NUT M10 NYLOC SS	2
8	GA5049800	SHCS M4 X 40 GR12.9 ZP	2
9	GA5020510	WASHER 4MM FLAT SS	4
10	GA5049025	NUT M4 NYLOC SS	2

## RapidFire Components - Non RCM



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA5054620	BOWL, SUIT AIR DRYER / OILER GA5068806	1
B	GA5054625	BOWL LUBRICATOR, SUIT AIR DRYER / OILER GA5068806	1
C	GA5071805	O-RING SEAL, 33X2MM, SUITS GA5068806 PNEUMATIC AIR LINE OILER RESERVOIR	-
1	GA5068806	PNEUMATIC MINI FILTER OILER AND REGULATOR	1
2	GA5004065	BOLT M6 X 20 GR8.8 ZP	2
3	GA5004437	WASHER 6MM FLAT SS	6
4	GA5048115	NUT M6 NYLOC ZP	2
5	GA5004091	BOLT M6 X 50 GR8.8 ZP	2
6	GA5004447	WASHER 6MM SPRING SS	2
7	GA5078068	MOUNTING CLAMP, SINGLE TYPE, PLATE, TOP, GROUP 2	1
8	GA5078058	MOUNTING CLAMP, SINGLE TYPE, JAW, PAIR, GROUP 3, 14MM	2

\* Sub-assembly on following pages

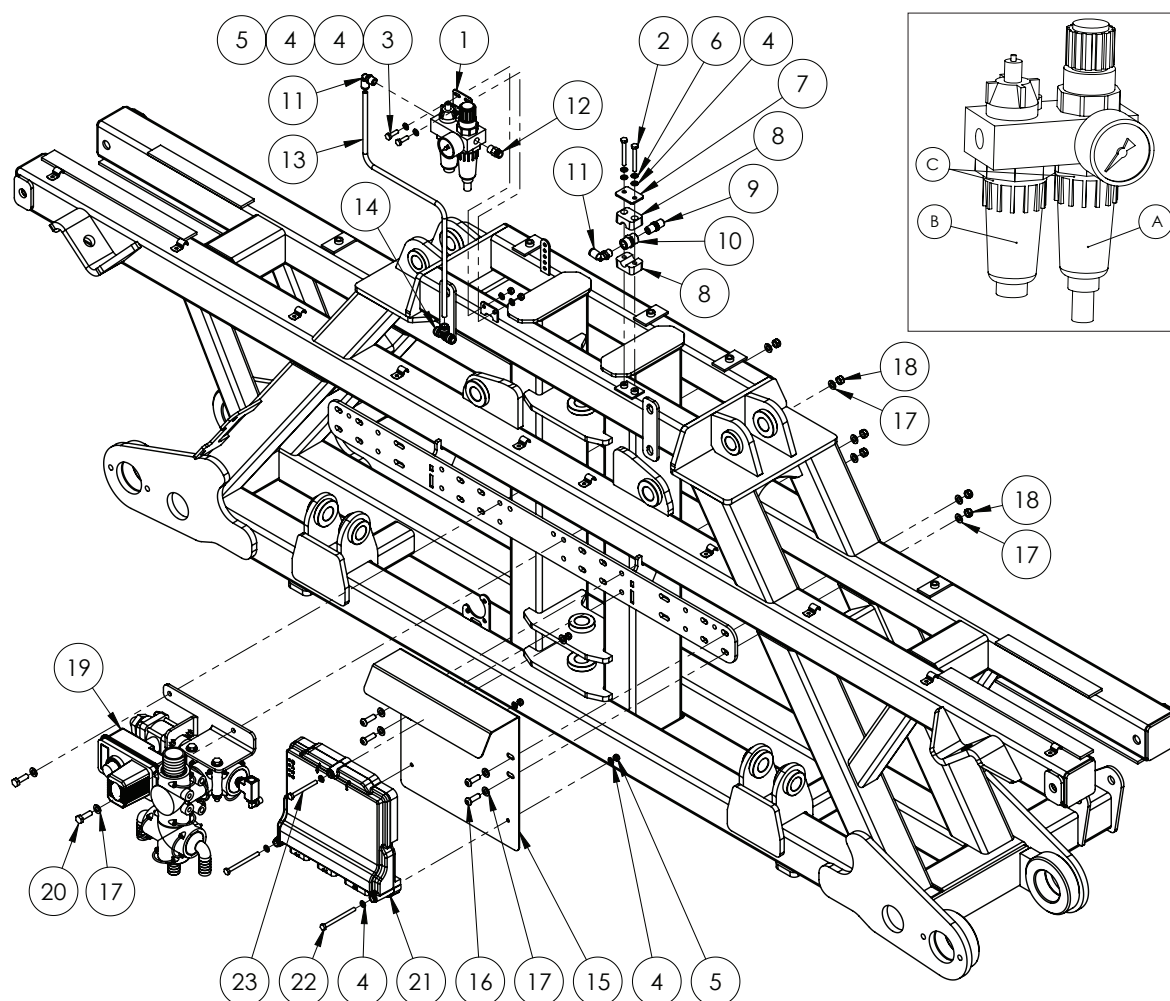
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## RapidFire Components - Non RCM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPT MALE	1
10	GA3500211	HYDRAULIC ADAPTOR, SOCKET, 1/4" BSPT FEMALE X 1/4" BSPT FEMALE	1
11	GA5052690	ELBOW SWIVEL PUSH IN 8 MM X 1/4" BSP	2
12	GA5052695	STRAIGHT ADAPTOR, PUSH IN, 8 MM X 1/4" BSP	1
13	GA5004382	TUBE, NYLON, 8MM, BLACK - SPECIFY LENGTH REQUIRED	1
14	GA5067010	EQUAL TEE PUSH IN 8MM	1
15	*	RAPIDFIRE 7-12 SECTION SOLENOID BOX	2
16	GA5004711	BOLT M8 X 25 GR8.8 ZP	8
17	GA5003643	WASHER 8MM FLAT SS HD	16
18	GA5052590	NUT M8 NYLOC SS	8



## RapidFire Components - RCM



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA5054620	BOWL, SUIT AIR DRYER / OILER GA5068806	1
B	GA5054625	BOWL LUBRICATOR, SUIT AIR DRYER / OILER GA5068806	1
C	GA5071805	O-RING SEAL, 33X2MM, SUITS GA5068806 PNEUMATIC AIR LINE OILER RESERVOIR	-
1	GA5068806	PNEUMATIC, AIR, MINI FILTER OILER AND REGULATOR, 1/4" BSP	1
2	GA5004091	BOLT M6 X 50 GR8.8 ZP	2
3	GA5004065	BOLT M6 X 20 GR8.8 ZP	2
4	GA5004437	WASHER 6MM FLAT SS	11
5	GA5048115	NUT M6 NYLOC ZP	5
6	GA5004447	WASHER 6MM SPRING SS	2
7	GA5078068	MOUNTING CLAMP, SINGLE TYPE, PLATE, TOP, GROUP 2	1

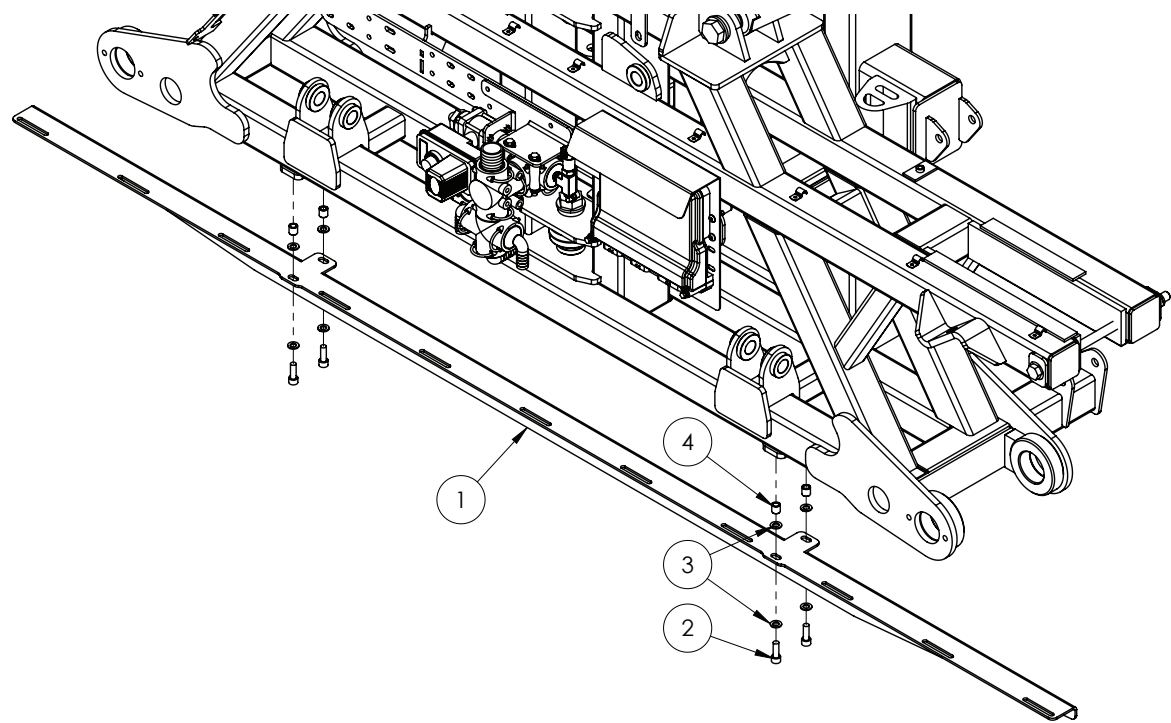
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## RapidFire Components - RCM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	GA5078058	MOUNTING CLAMP, SINGLE TYPE, JAW, PAIR, GROUP 3, 14MM	2
9	GA3500218	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPT MALE	1
10	GA3500211	HYDRAULIC ADAPTOR, SOCKET, 1/4" BSPT FEMALE X 1/4" BSPT FEMALE	1
11	GA5052690	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4 BSP MALE X 8MM PUSH TYPE, METAL	2
12	GA5052695	STRAIGHT ADAPTOR, PUSH IN, 8MM X 1/4" BSP	1
13	GA5004382	TUBE, NYLON, 8MM, BLACK	1
14	GA5067010	EQUAL TEE PUSH IN 8MM	1
15	GA4404570	PLATE, MOUNT, RCM NODE	1
16	GA5011473	BHCS M8 X 25 SS A2-70	4
17	GA5003643	WASHER 8MM FLAT SS HD	13
18	GA5052590	NUT M8 NYLOC SS	6
19	*	FLOW DISTRIBUTER & BOOM RECIRCULATION VALVE ASSEMBLY	1
20	GA5004711	BOLT M8 X 25 GR8.8 ZP	2
21	GA3000202	ISO NODE, RATE CONTROL MODULE, RCM, GOLDACRES, RAVEN	1
22	GA5011437	BOLT M6 X 75 ZP GR8.8	2
23	GA5004097	BOLT M6 X 60 GR8.8 ZP	1

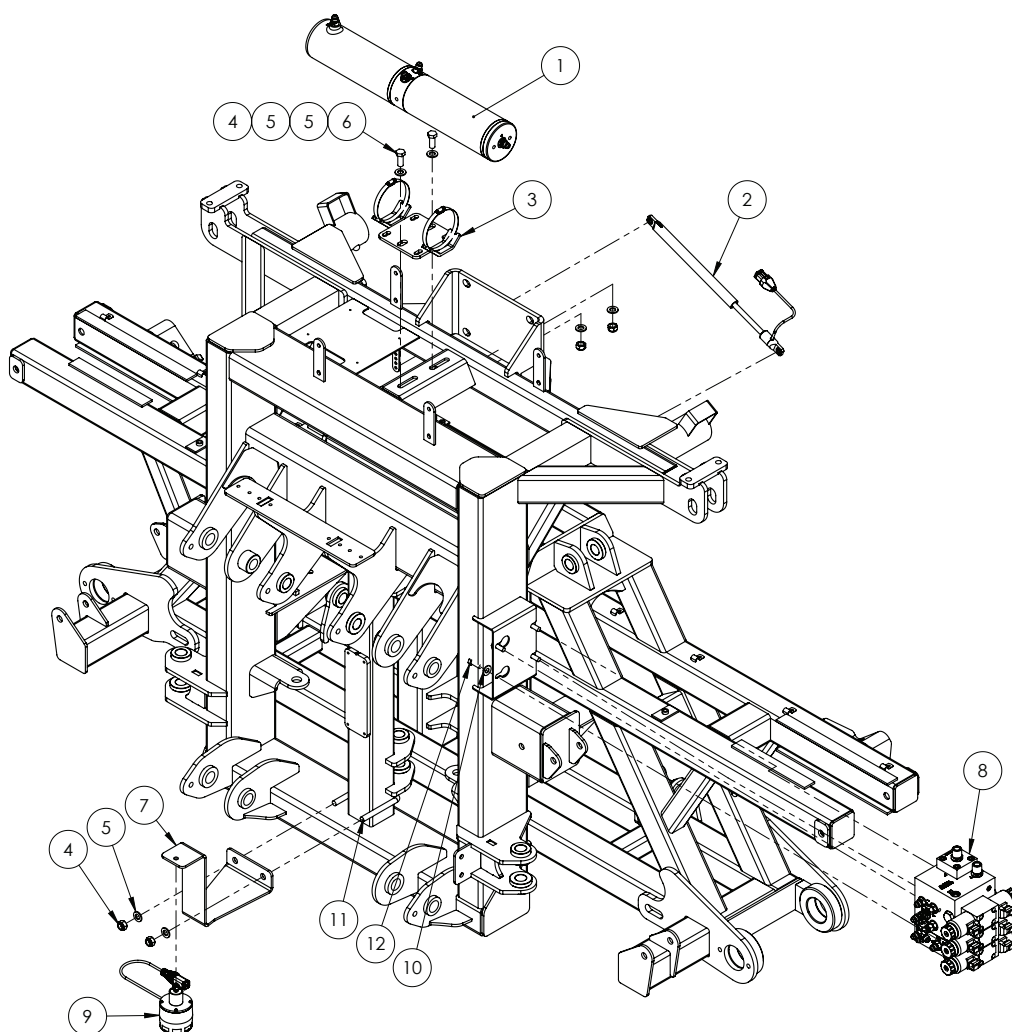
^ See Chapter 19 'Plumbing' for sub-assembly

# Spray Bar - 24-36m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4404885	PLATE, SPRAY BAR, ALUMINIUM, TRITECH	1
2	GA5011153	SHCS M10 X 20 GR12.9 ZP	4
3	GA5000137	WASHER 10MM SPRING SS	4
4	GA5000117	WASHER 10MM FLAT SS HD	4

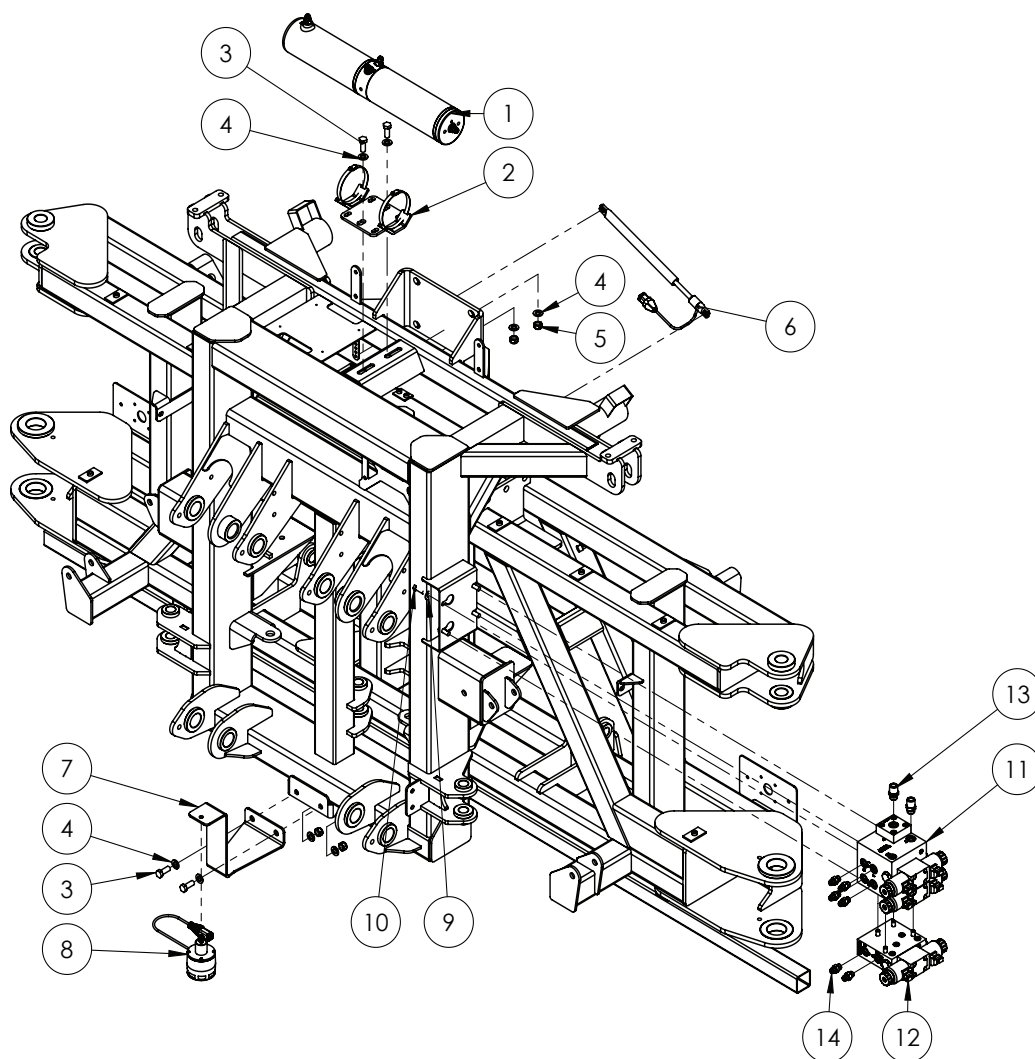
## Norac System - 36-42m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500136	HYDRAULIC CYLINDER, WING ROLL WITH POSITION SENSOR, NORAC	1
	GA3500146	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 9/16" UN MALE O-RING	4
2	GA3000127	SENSOR, LINEAR POSITION NF, UC5, NORAC	1
3	GA5075495	MOUNTING BRACKET SUIT 2017 ON AWR CYLINDER, WITH CLAMPS, BLACK	1
4	GA5012461	NUT M12 NYLOC ZP	4
5	GA5000577	WASHER 12MM FLAT SS HD	6
6	GA5000305	SET SCREW M12 X 30 GR8.8 ZP	2
7	GA4510595	PLATE, MOUNT, NORAC ULTRASONIC SENSOR, CENTRE SECTION	1
8	^	NORAC VALVE BLOCK	1
9	GA3000128	ULTRASONIC SENSOR, UC5	1
10	GA5017623	WASHER 3/8" FLAT ZP HD	4
11	GA5011259	U BOLT SQUARE TOP M12 X 76MM X 110MM	1
12	GA5002601	BOLT 3/8" UNC X 1" GR8 ZP YELLOW	4

^ See Chapter 18 'Hydraulics' for sub-assembly.

## Norac System - 48m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500136	HYDRAULIC CYLINDER, WING ROLL WITH POSITION SENSOR, NORAC	1
	GA3500146	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 9/16" UN MALE O-RING	4
2	GA5075495	MOUNTING BRACKET SUIT 2017 ON AWR CYLINDER, WITH CLAMPS, BLACK	1
3	GA5000305	SET SCREW M12 X 30 GR8.8 ZP	2
4	GA5000577	WASHER 12MM FLAT SS HD	6
5	GA5012461	NUT M12 NYLOC ZP	2
6	GA3000127	SENSOR, LINEAR POSITION NF, UC5, NORAC	1
7	GA4510595	PLATE, MOUNT, NORAC ULTRASONIC SENSOR, CENTRE SECTION	1
8	GA3000128	ULTRASONIC SENSOR, UC5, NORAC	1
9	GA5017623	WASHER 3/8" FLAT ZP HD	4
10	GA5002601	BOLT 3/8" UNC X 1" GR8 ZP YELLOW	4

^ See Chapter 18 'Hydraulics' for sub-assembly.

Continued over page

## Norac System - 48m

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	GA3500164	VALVE BLOCK, 2 STATION ASSEMBLY, CLOSED CENTRE, LOAD SENSE, DT 4 BOLT, NORAC	1
12	GA3500139	VALVE BLOCK, EXPANSION ASSEMBLY, DPOC PROP DT 4 BOLT, NORAC	1
13	GA3500363	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/4" UNO MALE O-RING	2
14	GA3500146	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 9/16" UN MALE O-RING	6

## Norac Spare Parts List

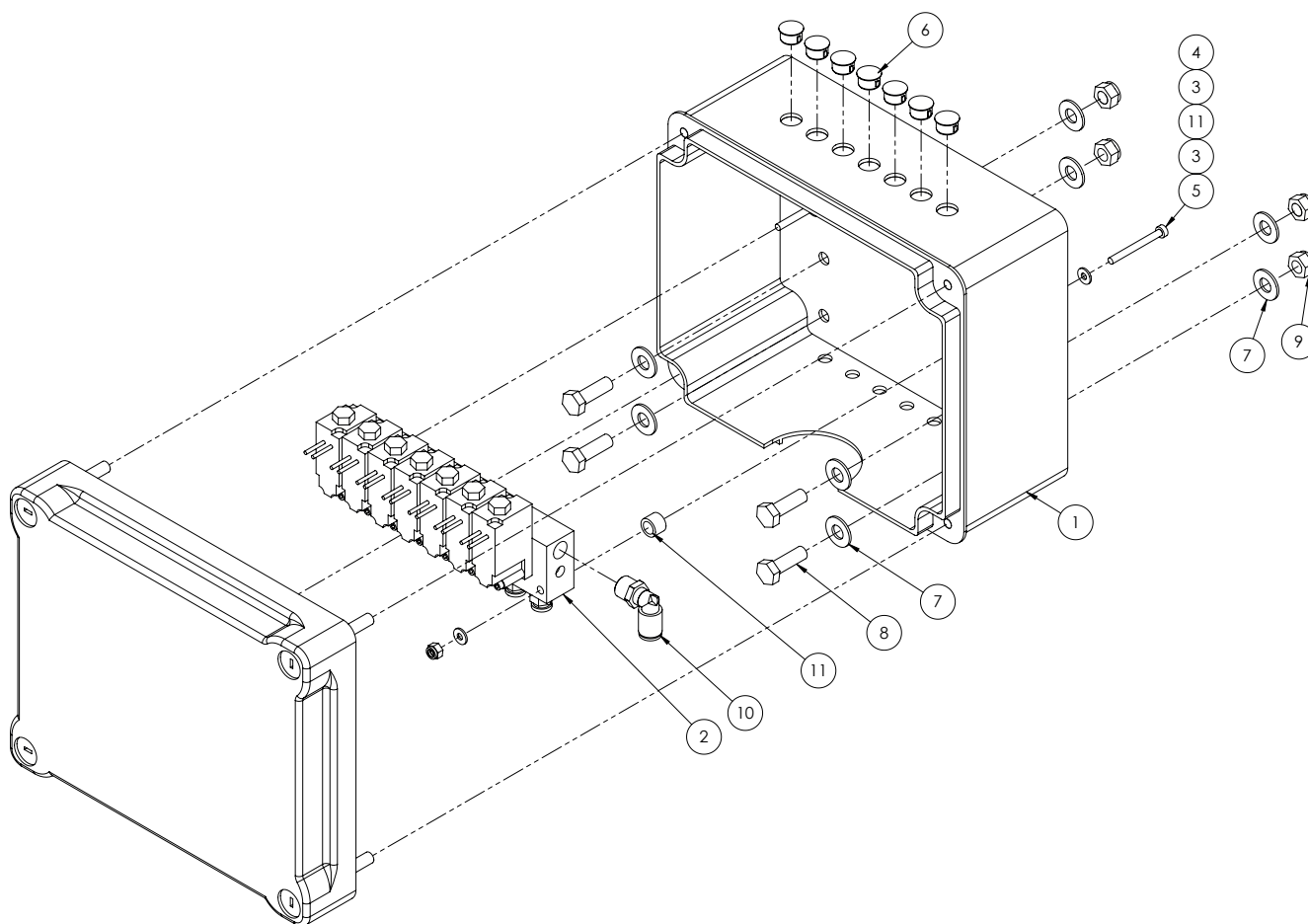
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA3000110	CONSOLE, UC5 PULSE, DISPLAY PANEL, SCREEN, NORAC
2	GA3000111	CONTROLLER MODULE, UC5 INPUT PASS THROUGH, NORAC
3	GA3000112	CONTROLLER MODULE, UC5 VALVE, NORAC
4	GA3000113	CONTROLLER MODULE, UC5, CAN BUS, NORAC
5	GA3000114	ELECTRICAL HARNESS, UC5 BATTERY FEED FUSED, NORAC
6	GA3000115	ELECTRICAL HARNESS, UC5 MAIN CAN INTERFACE, ISO BUS 4 PIN DT
7	GA3000116	ELECTRICAL HARNESS, UC5 NETWORK, 1M, 14 AWG, NORAC
8	GA3000117	ELECTRICAL HARNESS, UC5 NETWORK, 10M, 14 AWG, NORAC
9	GA3000118	ELECTRICAL HARNESS, UC5 NETWORK, 10M, 18 AWG, NORAC
10	GA3000119	ELECTRICAL HARNESS, UC5 NETWORK, 20M, 18 AWG, NORAC
11	GA3000120	ELECTRICAL HARNESS, UC5 VALVE 2 PIN DT, NORAC
12	GA3000121	ELECTRICAL HARNESS, UC5, MAIN INTERFACE GOLDACRES, NORAC
13	GA3000122	ELECTRICAL HARNESS, UC5, TILT INTERFACE GOLDACRES, NORAC
14	GA3000123	NETWORK COUPLER, UC5, 2 WAY, BLACK, NORAC
15	GA3000124	NETWORK COUPLER, UC5, 2 WAY, WHITE, TERMINATOR, NORAC
16	GA3000125	NETWORK COUPLER, UC5, 3 WAY, NORAC
17	GA3000126	NETWORK COUPLER, UC5, 8 WAY, NORAC
18	GA3000127	SENSOR, LINEAR POSITION NF, UC5, NORAC
19	GA3000128	ULTRASONIC SENSOR, UC5, NORAC
20	GA3000129	CONNECTOR, PLUG, UC5 NETWORK, 6 PIN, NORAC
21	GA3000130	CONNECTOR, PLUG, UC5 NETWORK, 2 PIN, NORAC
22	GA3000131	CONNECTOR, PLUG, UC5 NETWORK, 12 PIN, NORAC
23	GA3500136	HYDRAULIC CYLINDER, WING ROLL WITH POSITION SENSOR, NORAC
24	GA3500137	HYDRAULIC FITTING KIT, 12 PARTS, GNI, NORAC
25	GA3500138	VALVE BLOCK, 2 STATION ASSEMBLY, OPEN CENTRE LS PROPORTIONAL, DT 4 BOLT, NORAC
26	GA3500139	VALVE BLOCK, EXPANSION ASSEMBLY, DPOC PROP DT 4 BOLT, NORAC

Continued over page

## Norac Spare Parts List

ITEM NO.	PART NUMBER	DESCRIPTION
27	GA8700392	MANUAL, INSTALLATION UC5 AND UC4.5 SEVERE TERRAIN OPTION, NORAC
28	GA8700393	MANUAL, INSTALLATION, UC5 GOLDACRES ACTIVE WING ROLL UPGRADE NORAC
29	GA8700394	MANUAL, INSTALLATION, UC5 GOLDACRES ACTIVE WING ROLL, NORAC
30	GA8700395	MANUAL, INSTALLATION, UC5 GOLDACRES PASSIVE ROLL, NORAC
31	GA8700396	MANUAL, UC5 OPERATORS, NORAC
32	GA8700397	MANUAL, UC5 PULSE DISPLAY KIT SELF PROPELLED, NORAC
33	GA5075480	BRACKET, LINEAR POSITION SENSOR MOUNT, NORAC
34	GA5075485	MOUNTING BRACKET, MAIN LIFT SENSOR UC4 PLUS, NORAC
35	GA5075490	MOUNTING BRACKET, SUIT ULTRA SONIC SENSOR, LOW PROFILE, NORAC
36	GA5075495	SPACER, 2" SQUARE TUBING 8" LONG, BLACK, NORAC
37	GA4510595	PLATE, MOUNT, NORAC ULTRASONIC SENSOR, CENTRE SECTION
38	GA5011259	U BOLT SQUARE TOP M12 X 76MM X 110MM
39	GA3500363	HYDRAULIC ADAPTER, NIPPLE, 1/2" BSPT MALE X 3/4" UN MALE O-RING
40	GA3500146	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 9/16" UN MALE O-RING
41	GA3500144	HYDRAULIC ADAPTOR, TEE, 9/16" JIC MALE X 9/16" JIC MALE X 9/16" JIC FEMALE SWIVEL
42	GA3500145	HYDRAULIC ADAPTOR, NIPPLE, 3/8" BSPP MALE X 9/16" JIC MALE
43	GA3500147	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 3/4" UN MALE O-RING
44	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL

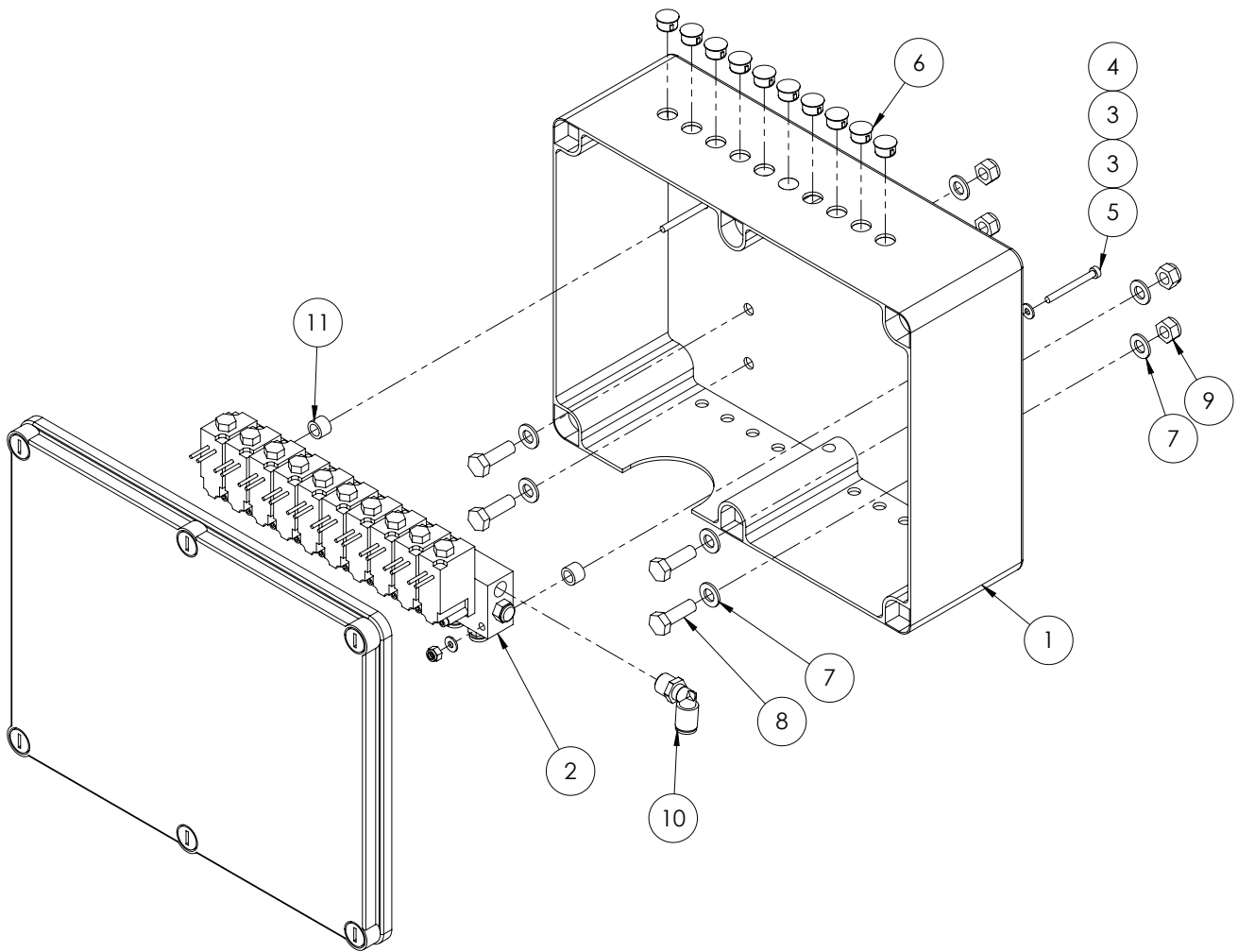
## RapidFire 7 Section Solenoid Box



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054085	BOX PLASTIC ELECTRICAL, 241 X 194 X 127MM	1
2	GA5068805	VALVE, PNEUMATIC SOLENOID, 7 SECTION BANK, BARE WIRES, 6MM OUTLETS, 8MM INLET	1
3	GA5020510	WASHER 4MM FLAT SS	4
4	GA5049025	NUT M4 NYLOC SS	2
5	GA5049800	SHCS M4 X 40 ZP GR12.9	2
6	GA5048780	DOME PLUG 12MM	7
7	GA5003643	WASHER 8MM FLAT SS HD	8
8	GA5004711	BOLT M8 X 25 ZP GR8.8	4
9	GA5052590	NUT M8 NYLOC SS	4
10	GA5018339	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 8MM PUSH TYPE FITTING X 1/8" MALE THREAD	1
11	GA4572280	CRUSH TUBE, 11.8 OD X 8 ID X 8.5MM LONG	2

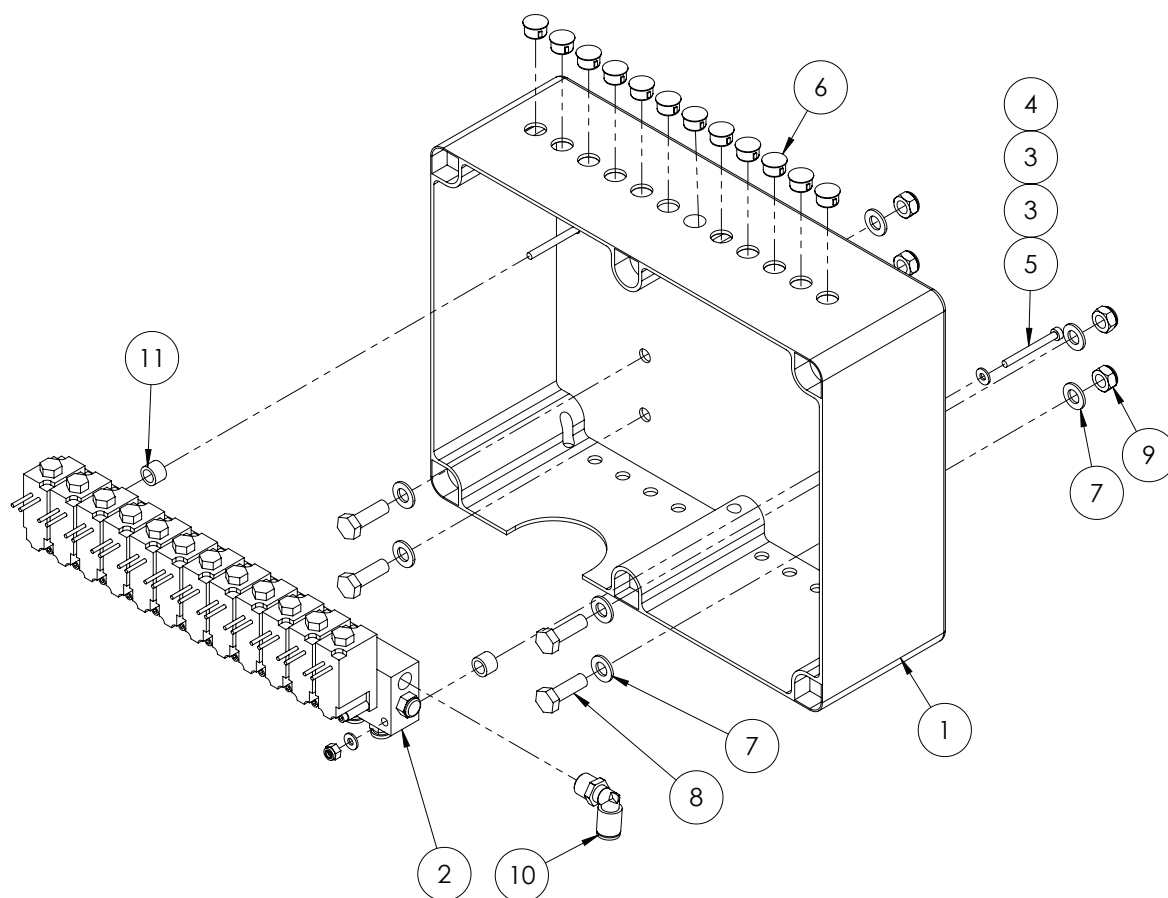


## RapidFire 10 Section Solenoid Box



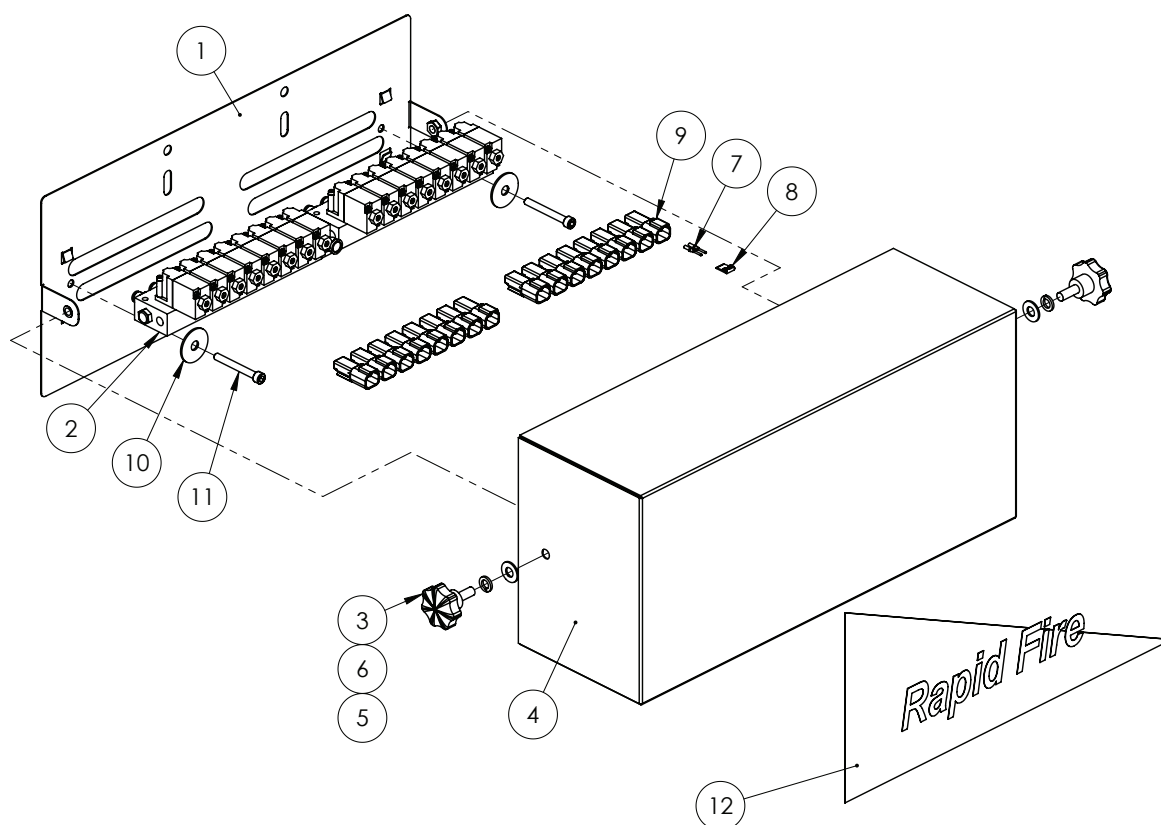
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054090	BOX PLASTIC ELECTRICAL 310 X 240 X 110MM	1
2	GA5070630	VALVE, PNEUMATIC SOLENOID BANK 10 SECTION, BARE WIRES, 6MM OUTLETS, 8MM INLET	1
3	GA5020510	WASHER 4MM FLAT SS	4
4	GA5049025	NUT M4 NYLOC SS	2
5	GA5049800	SHCS M4 X 40 ZP GR12.9	2
6	GA5048780	DOME PLUG 12MM	7
7	GA5003643	WASHER 8MM FLAT SS HD	8
8	GA5004711	BOLT M8 X 25 ZP GR8.8	4
9	GA5052590	NUT M8 NYLOC SS	4
10	GA5018339	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 8MM PUSH TYPE FITTING X 1/8" MALE THREAD	1
11	GA4572280	CRUSH TUBE, 11.8 OD X 8 ID X 8.5MM LONG	2

## RapidFire 12 Section Solenoid Box



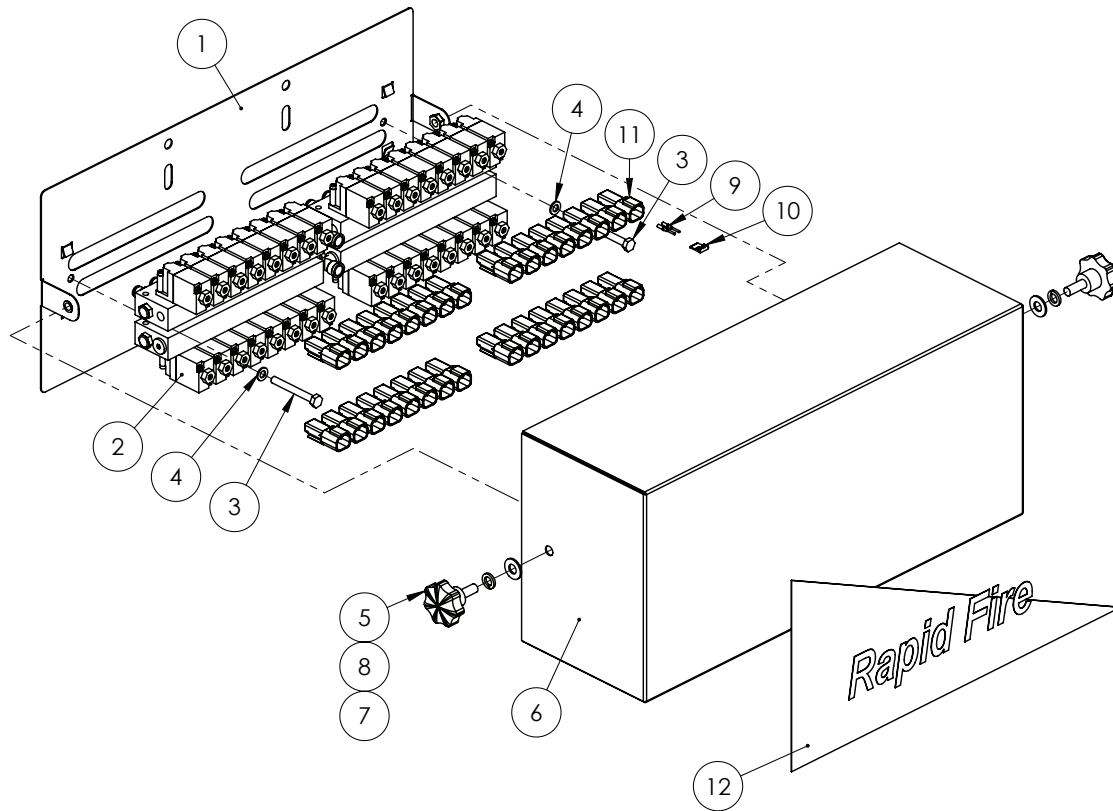
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5054090	BOX PLASTIC ELECTRICAL 310 X 240 X 110MM	1
2	GA5070631	VALVE, PNEUMATIC SOLENOID BANK 12 SECTION, BARE WIRES, 6MM OUTLETS, 8MM INLET	1
3	GA5020510	WASHER 4MM FLAT SS	4
4	GA5049025	NUT M4 NYLOC SS	2
5	GA5049800	SHCS M4 X 40 ZP GR12.9	2
6	GA5048780	DOME PLUG 12MM	7
7	GA5003643	WASHER 8MM FLAT SS HD	8
8	GA5004711	BOLT M8 X 25 ZP GR8.8	4
9	GA5052590	NUT M8 NYLOC SS	4
10	GA5018339	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 8MM PUSH TYPE FITTING X 1/8" MALE THREAD	1
11	GA4572280	CRUSH TUBE, 11.8 OD X 8 ID X 8.5MM LONG	2

## RapidFire 16 Section Solenoid Box - Single Tier



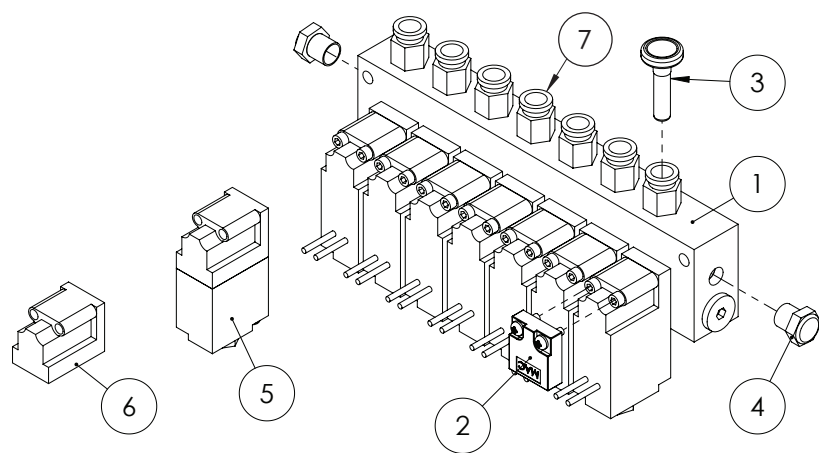
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4601550	BOX, WELDED, PNEUMATIC SOLENOID VALVE ASSEMBLY, RAPIDFIRE 3TS, 16 SECTION	1
2	GA7000008	VALVE, PNEUMATIC SOLENOID, 16 SECTION BANK, BARE WIRES, SUIT RAPIDFIRE, 6MM OUTLETS, 8MM INLET, MAC	1
3	GA5067080	M8 X 20MM PLASTIC KNOB BOLT	2
4	GA4403275	LID, BOX, PNEUMATIC SOLENOID VALVE ASSEMBLY, RAPIDFIRE 3TS, 16 SECTION	1
5	GA5003643	WASHER 8MM FLAT SS HD	2
6	GA5004919	WASHER 8MM SPRING SS	2
7	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16, GREEN BAND, AWG 14, DEUTSCH	32
8	GA5052835	WEDGE LOCK, 2 WAY, DT SERIES, DEUTSCH	16
9	GA5052830	RECEPTACLE, 2 WAY, PINS, DT SERIES, DEUTSCH	16
10	GA5017645	WASHER 1/4" ID X 1 1/4" OD X 16G SS	2
11	GA5011421	SHCS M6 X 50 GR12.9 ZP	2
12	GA8701053	DECAL, RAPIDFIRE BOX, 16 SECTION	1

## RapidFire 16 Section Solenoid Box - Three Tier



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4601550	BOX, WELDED, PNEUMATIC SOLENOID VALVE ASSEMBLY, RAPIDFIRE 3TS, 16 SECTION	1
2	GA7000008	VALVE, PNEUMATIC SOLENOID, 16 SECTION BANK, BARE WIRES, SUIT RAPIDFIRE, 6MM OUTLETS, 8MM INLET, MAC	2
3	GA5004091	BOLT M6 X 50 GR8.8 ZP	2
4	GA5004437	WASHER 6MM FLAT SS	2
5	GA5067080	M8 X 20MM PLASTIC KNOB BOLT	2
6	GA4403275	LID, BOX, PNEUMATIC SOLENOID VALVE ASSEMBLY, RAPIDFIRE 3TS, 16 SECTION	1
7	GA5003643	WASHER 8MM FLAT SS HD	2
8	GA5004919	WASHER 8MM SPRING SS	2
9	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16, GREEN BAND, AWG 14, DEUTSCH	64
10	GA5052835	WEDGE LOCK, 2 WAY, DT SERIES, DEUTSCH	32
11	GA5052830	RECEPTACLE, 2 WAY, PINS, DT SERIES, DEUTSCH	32
12	GA8701053	DECAL, RAPIDFIRE BOX, 16 SECTION	1

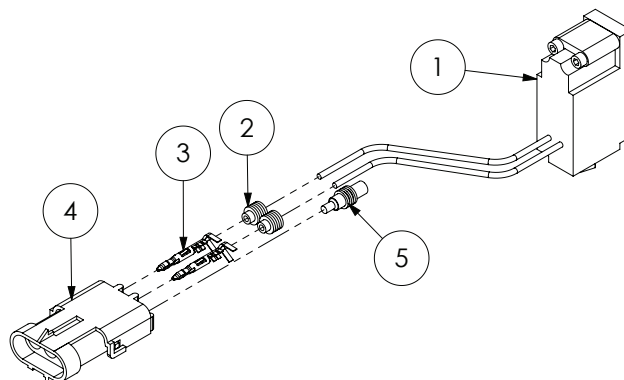
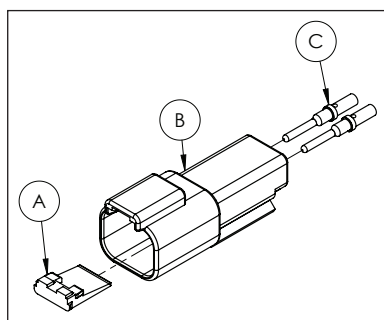
# RapidFire Solenoid Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5068805	7 SECTION BANK, BARE WIRES, 6MM OUTLET, 8MM INLET, MAC	1
2	GA5054440	MAC BLANKING PLATE MANIFOLD	1
3	GA5004405	PLUG, PUSH IN, 6MM	1
4	GA5054435	MAC 1/8" BSP FLAT SILENCER	2
5	GA5054430	SOLENOID VALVE, MAC 3/2 PNEUMATIC, VITON SEALS, 12V, BARE WIRES	1
6	GA5054431	VALVE, MAC 35A REPLACEMENT VALVE ONLY NO SOLENOID, INCLUDES BOLTS AND VITON SEAL, BLUE	1
7	GA5071195	STRAIGHT ADAPTOR PUSH IN 6MM X 1/8" MALE THREAD	7

NOTE: Quantities will vary depending on number of sections optioned.

## RapidFire Solenoid Valve

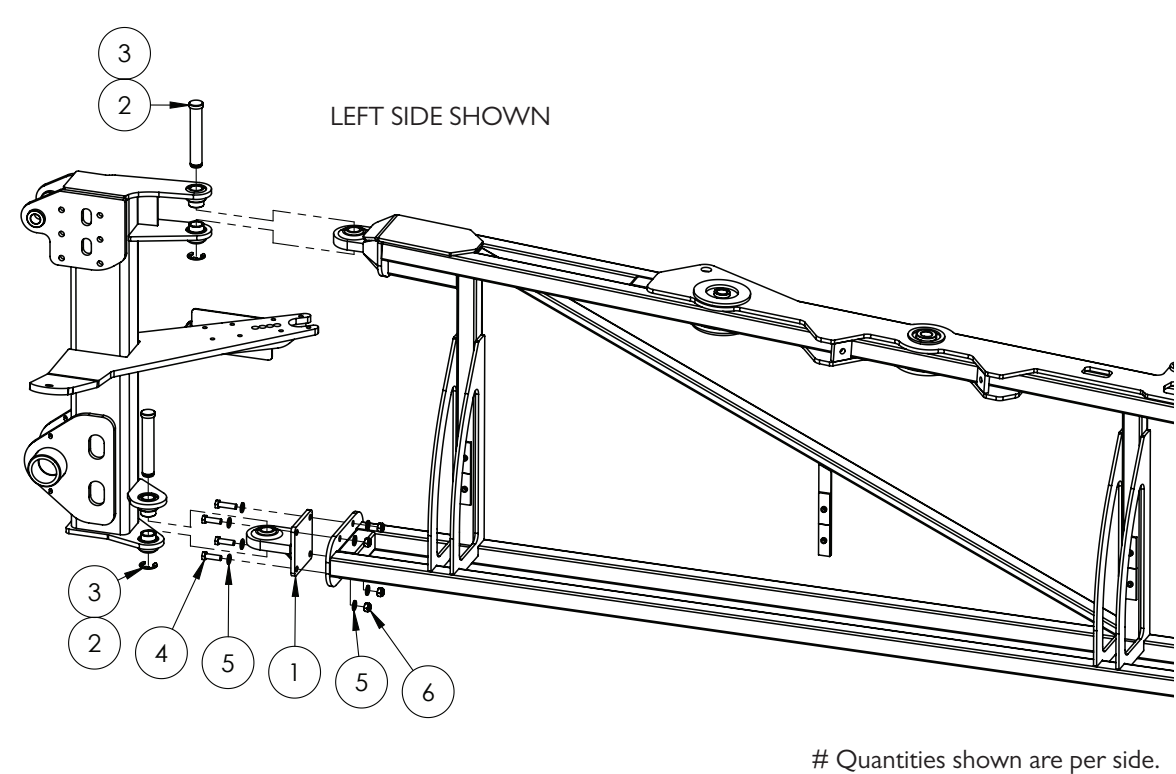


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA5052835	WEDGE LOCK, 2 WAY, DT SERIES, DEUTSCH	1
B	GA5052830	RECEPTACLE, 2 WAY, PINS, DT SERIES, DEUTSCH	1
C	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16, GREEN BAND, AWG 14, DEUTSCH	2
1	GA5054430	SOLENOID VALVE, MAC 3/2 PNEUMATIC, VITON SEALS, 12V, BARE WIRES	1
2	GA5014857	SEAL, GREEN, WEATHER PACK CONNECTOR, WIRE FROM 2.03 - 2.85MM	2
3	GA5016617	PIN, MALE, SEALED, WEATHER PACK, WIRE 1.0 - 2.0MM	2
4	GA5048550	CONNECTOR, FEMALE, 3 PIN, WEATHER PACK	1
5	GA5050245	SEAL, CAVITY BLANKING PLUG, WEATHER PACK CONNECTOR	1

# Chapter 14

## BOOM WINGS

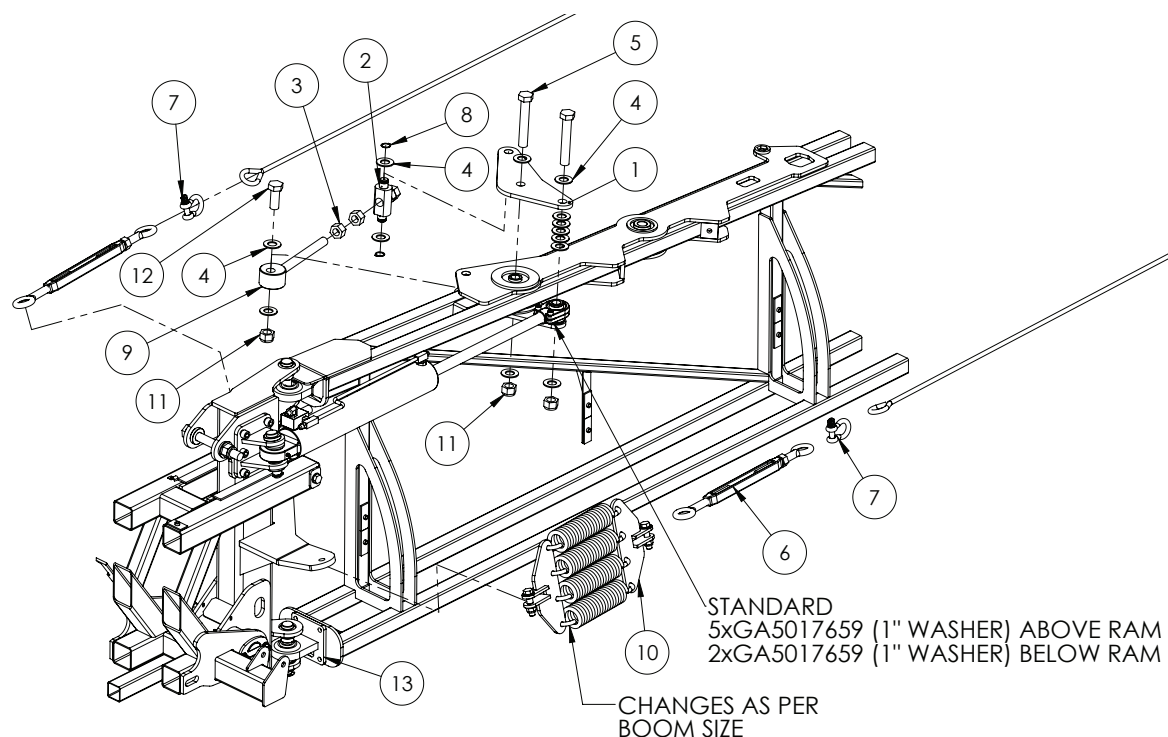
### 24-36m - Boom Pivot



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4535285~	SHIM, 1MM, LOWER ROSE END	-
	GA4535355~	SHIM, 3MM, LOWER ROSE END	
	GA4535360~	SHIM, 5MM, LOWER ROSE END	
1	GA4656200	ROSE END, BOLT ON, RH, SUIT 24 - 36M BOOM	1
	GA4656201	ROSE END, BOLT ON, LH, SUIT 24 - 36M BOOM	
2	L003A	PIN, 1 1/8" X 170MM, WITH CIRCLIP GROOVE	2
3	GA5001883	CIRCLIP, E TYPE, 24MM, ZINC PLATED	2
4	GA5000327	SET SCREW M12 X 45 GR8.8 ZP	4
5	GA5000577	WASHER 12MM FLAT SS HD	8
6	GA5012461	NUT M12 NYLOC ZP	4

~ NOTE: Quantity will vary depending on adjustments needed.

## 24-36m - Boom Fold Adjuster



# Quantities shown are per side.

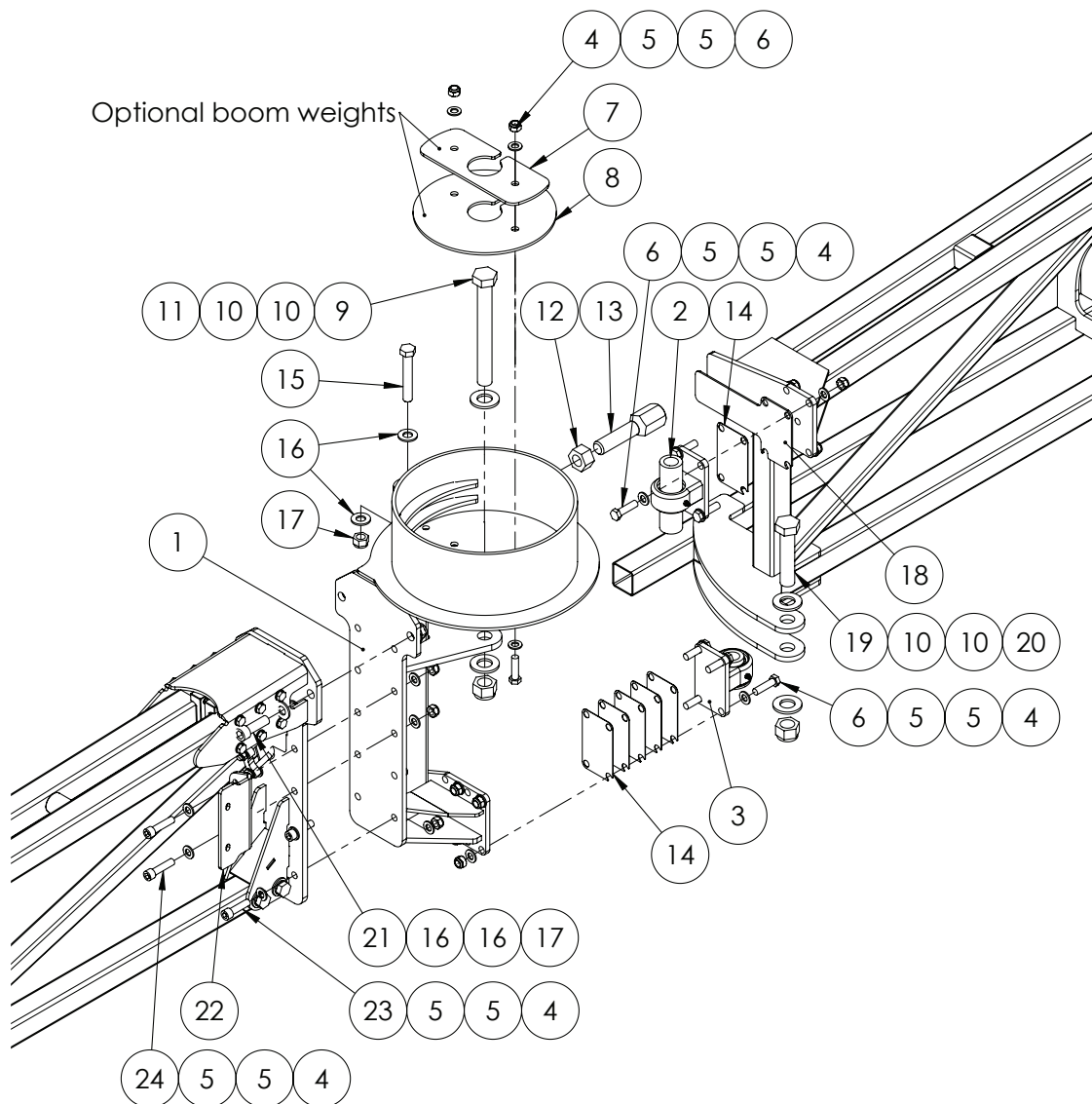
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	24MK4DB005LAS	FOLD RAM ADJUSTER PLATE SUIT TRITEC BOOM	2
2	24MK4DB006	BUSH / PIN, FOLD RAM ADJUSTER NUT AND BOLT RETAINER	1
3	GA5010991	NUT 1" UNF 12 TPI ZP	4
4	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	15
5	GA5006043	BOLT 1" UNF 14 TPI X 6" ZP GR8	2
6	GA5017061	TURNBUCKLE, EYE ENDS, M22 THREAD & LOCK NUT, GALVANISED	1
7	GA5075230	BOW SHACKLE 13MM WLL 3.25T BLACK	2
8	GA5008519	CIRCLIP EXTERNAL 25MM	2
9	GA5070775	BOOM FOLD ADJUSTER EYELET BOLT, HD	1
10	*	BOOM CABLE SPRINGS - 24-36M	1
11	GA5012445	NUT 1" UNF 14 TPI NYLOC ZP	3
12	GA5006039	BOLT 1" UNF 14 TPI X 4 1/2" ZP GR8	1
13	GA4535285~	SHIM, 1MM, LOWER ROSE END, DELTA BOOM	-
	GA4535355~	SHIM, 3MM, DELTA BOOM ROSE JOINT	-
	GA4535360~	SHIM, 5MM, DELTA BOOM ROSE JOINT	-

\* Sub-assembly on following pages

~NOTE: Quantities will vary depending on adjustment needed.



## 24-36m - Cable Drum



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659580	CABLE DRUM, BOOM HINGE, RIGHT SIDE, TRITECH	1
	GA4659585	CABLE DRUM, BOOM HINGE, LEFT SIDE, TRITECH	1
	GA4659600	BOOM DRUM HINGE OFFSET 24+ RH	1
	GA4659605	BOOM DRUM HINGE OFFSET 24+ LH	1
2	*	UPPER PIVOT ASSEMBLY	1
3	*	LOWER PIVOT ASSEMBLY	1
4	GA5012461	NUT M12 NYLOC ZP	20
5	GA5000577	WASHER 12MM FLAT SS HD	40
6	GA5000327	SET SCREW M12 X 45 ZP GR8.8	10
7	GA4504535	BOOM WEIGHT, CABLE DRUM DISC, 0.806 KG	1
8	GA4504530	BOOM WEIGHT, CABLE DRUM DISC, 1.792 KG	1

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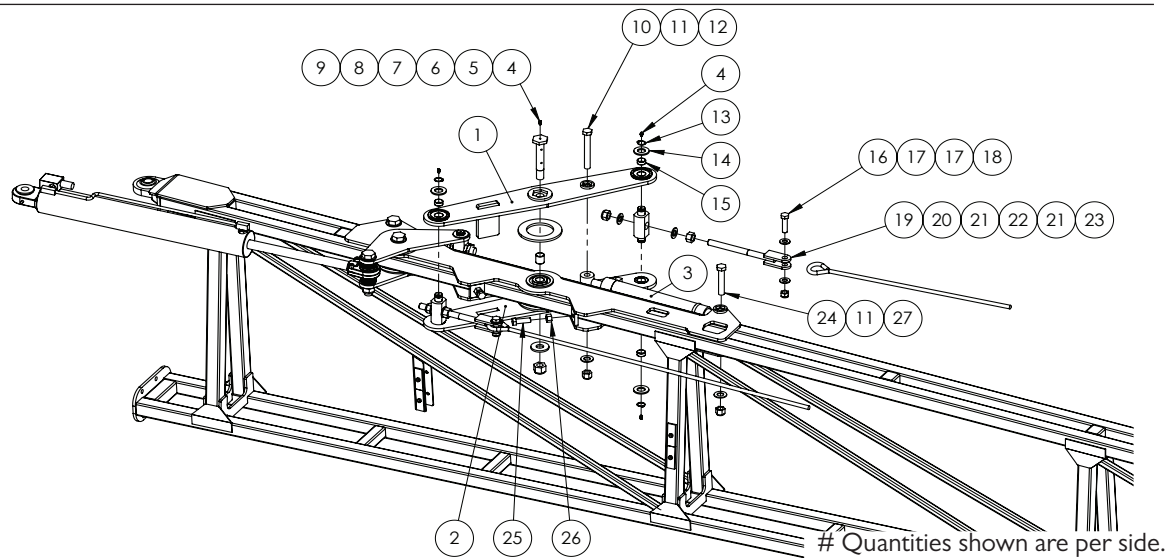
## 24-36m - Cable Drum

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
9	GA0500025	BOLT 1" UNF 12 TPI X 8 1/2" GR8 ZP	1
10	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	4
11	GA0500036	NUT, 1", UNF, 12 TPI, CONELOCK ZP	1
12	GA5010991	NUT, 1" UNF, 12 TPI, ZP	1
13	GA4572495	BOLT 1" UNF 12 TPI BOOM DRUM STOPPER	1
14	DB-ADJ-16LAS	SHIM, CABLE DRUM PIVOT, SS, 1MM	6
15	GA5011269	BOLT M16 X 100 GR8.8 ZP	1
16	GA5001043	WASHER 16MM FLAT SS HD	6
17	GA5001029	NUT M16 NYLOC ZP	3
18	GA4524690	WEAR PLATE UPPER BOOM TOP SS	1
19	GA5006039	BOLT, 1" UNF, 14 TPI X 4 1/2", GR8 ZP	1
20	GA5012445	NUT 1" UNF 14 TPI NYLOC ZP	1
21	GA5000935	SHCS M16 X 50 GR12.9 ZP	2
22	GA4522725	BOOM HOSE HOLDER PLATE OUTER	1
23	GA5000325	SHCS M12 X 45 GR12.9 ZP	8
24	GA5051470	SHCS M12 X 50 GR12.9 ZP	2

\* Sub-assembly on following pages

# Quantities shown are per side.

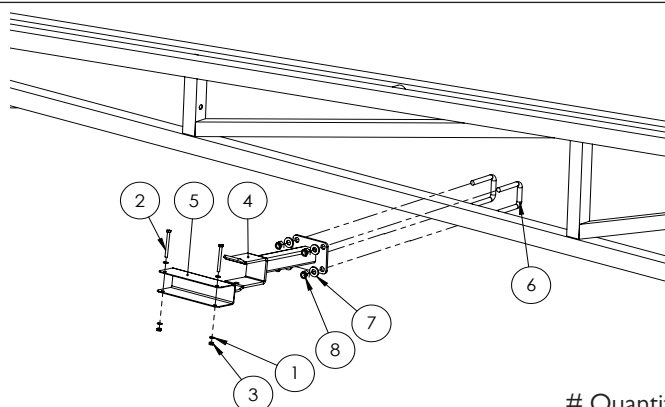
## 24-36m - Bi-Fold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656290	BOOM BI-FOLD TOP BRACKET	1
2	GA4656295	BOOM BI-FOLD BOTTOM BRACKET	1
3	^	HYDRAULIC CYLINDER - BI-FOLD	1
4	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	7
5	2SF-007	PIVOT PIN	1
6	MACH0102	2ND STAGE PIVOT NYLON WASHER BLACK POLY	2
7	GA5009467	GLACIER BUSH ID 25 X 30 MM LONG	2
8	2SF003LAS	2ND STAGE FOLD PIVOT WASHER 6MM FMS, 60 MM OD, 25.3 MM ID	1
9	GA5012469	NUT M24 NYLOC ZP	1
10	GA5070335	BOLT 3/4" UNC X 5 1/2" GR8 ZP	1
11	GA5001045	WASHER 3/4" FLAT ZP	2
12	GA5048430	NUT 3/4" UNC NYLOC ZP	1
13	GA5008519	CIRCLIP, EXTERNAL, 25MM	4
14	GA5017681	WASHER 1" X 2" 7G FLAT THIN SS	4
15	GA5009463	GLACIER BUSH, ID 25 X 15 MM LONG	4
16	GA5000941	BOLT M16 X 60 GR8.8 ZP	2
17	GA5001043	WASHER 16MM FLAT SS HD	4
18	GA5001029	NUT M16 NYLOC ZP	2
19	GA5020320	CABLE ADJUSTER, THREADED, M20	2
20	GA5001709	NUT M20 COARSE ZP	2
21	GA5001741	WASHER 20MM FLAT SS HD	4
22	24MK4DB006	BUSH / PIN, FOLD RAM ADJUSTER NUT AND BOLT RETAINER	2
23	GA5048125	NUT M20 NYLOC COARSE ZP	2
24	GA5049490	BOLT 3/4" UNC X 4 GR8 ZP	1
25	GA5000931	BOLT M16 X 50 GR8.8 ZP	2
26	GA5012385	NUT M16 ZP	2
27	GA5049495	NUT 3/4" UNF NYLOC ZP	1

^ See Chapter 18 'Hydraulics' for sub-assembly

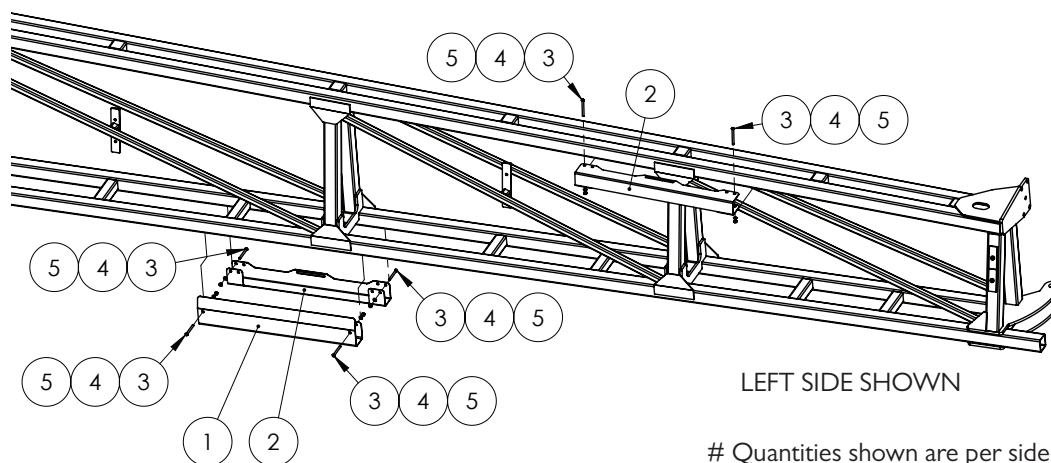
## 24-36m - Boom Protector - Outer Wing



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5004437	WASHER 6MM FLAT SS	4
2	GA5004107	BOLT M6 X 70 ZP GR8.8	2
3	GA5048115	NUT M6 NYLOC ZP	2
4	GA4656277	SUPPORT BRACKET, FOLDED WING, TRI TECH	1
	GA4600360	SUPPORT BRACKET, FOLDED WING, TRI TECH, SUIT TRIJET CLOCK FACE NOZZLES	
5	F70294A	BOOM WING PROTECTOR, SUIT 50 X 50 X 200MM LONG (2MM SS)	1
6	GA5011251	U BOLT, SQUARE TOP, M12 X 52MM X 80MM	2
7	GA5000577	WASHER 12MM FLAT SS HD	4
8	GA5012461	NUT M12 NYLOC ZP	4

## 24-36m - Boom Protector - Inner Wing



# Quantities shown are per side.

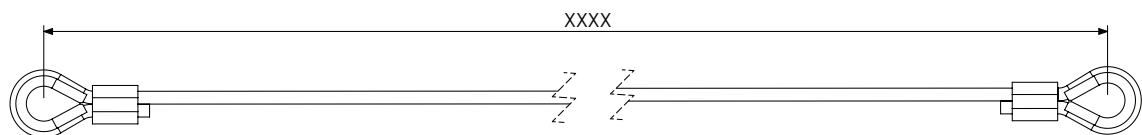
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4402215	BOOM PROTECTOR SS FITS OVER GUSSET	1
2	GA4505005	BOOM SLIDE PROTECTOR SS WITH CUTOUT	2
3	GA0500067	BHCS M6 X 65 GR12.9 ZP	6
4	GA5004437	WASHER 6MM FLAT SS	12
5	GA5048115	NUT M6 NYLOC ZP	6

## 24-36m - Boom Cables

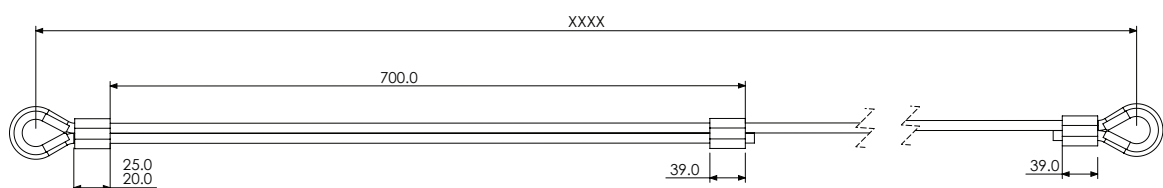
PART NUMBER	DESCRIPTION	QTY.
GA5000073	CABLE, 10MM, SOLID CORE, HEAVY DUTY, GALVANISED	SEE BELOW.
	24-30M - FRONT - CABLE CUT LENGTH (EYE TO EYE LENGTH 5140MM)	5490MM(X2)
	24-30M - REAR - CABLE CUT LENGTH (EYE TO EYE LENGTH 5760MM)	6830MM(X2)
	24-30M - BI-FOLD FRONT - CABLE CUT LENGTH (EYE TO EYE LENGTH 4710MM)	5065MM(X2)
	24-30M - BI-FOLD REAR - CABLE CUT LENGTH (EYE TO EYE LENGTH 4700MM)	5720MM(X2)
	33-36M - FRONT - CABLE CUT LENGTH (EYE TO EYE LENGTH 6820MM)	7200MM(X2)
	33-36M - REAR - CABLE CUT LENGTH (EYE TO EYE LENGTH 7450MM)	8530MM(X2)
	33-36M - BI-FOLD FRONT - CABLE CUT LENGTH (EYE TO EYE LENGTH 6170MM)	6765MM(X2)
	33-36M - BI-FOLD REAR - CABLE CUT LENGTH (EYE TO EYE LENGTH 6170MM)	7465MM(X2)
GA5000215	THIMBLE, CABLE, SUIT 11 - 12MM	8
GA5005391	FERRULE, ALUMINIUM, 40 LONG X 4.5MM WALL	10
GA5001965	HEAT SHRINK 25.4MM BLACK X 120MM LONG	10

NOTE: Cable cut lengths are longer than eye to eye measurement.

### FRONT CABLE



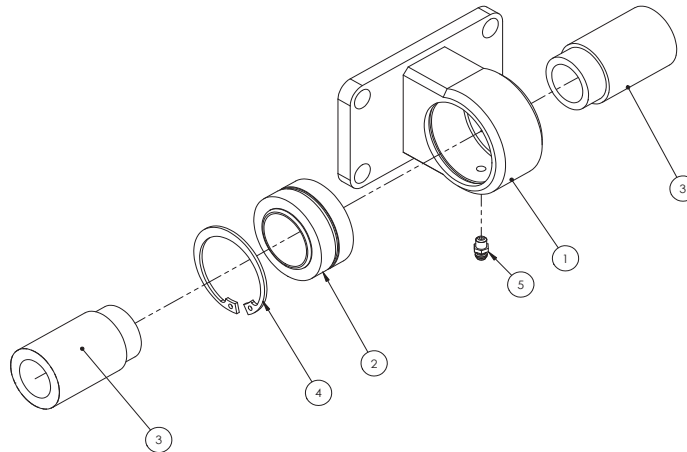
### REAR CABLE



### PRE-MADE FORM - SPECIFIC FITMENT 24-36M

PART NUMBER	DESCRIPTION	QTY.
GA4933660	CABLE FRONT, BOOM BI-FOLD, TRITECH 24 - 30M	2
GA4933680	CABLE FRONT, BOOM BI-FOLD, TRITECH 33 - 36M	2
GA4933670	CABLE FRONT, BOOM, TRITECH 24 - 30M	2
GA4933640	CABLE FRONT, BOOM, TRITECH 33 - 36M	2
GA4933665	CABLE REAR, BOOM BI-FOLD, TRITECH 24 - 30M	2
GA4933685	CABLE REAR, BOOM BI-FOLD, TRITECH 33 - 36M	2
GA4933675	CABLE REAR, BOOM, TRITECH 24 - 30M	2
GA4933645	CABLE REAR, BOOM, TRITECH 33 - 36M	2

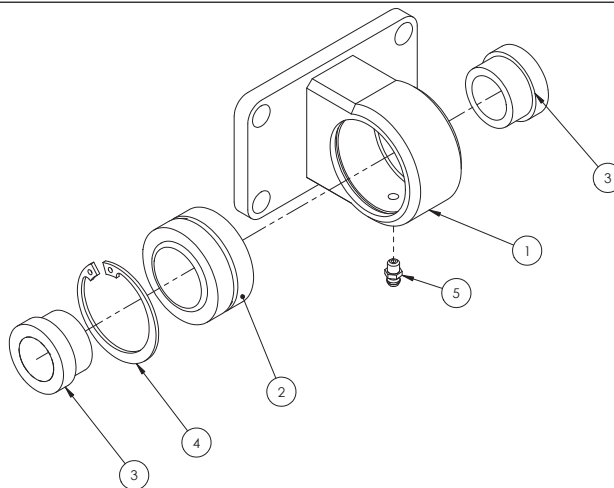
## 24-36m - Upper Pivot Assembly



GA4932342 UPPER PIVOT  
ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656190	BOOM HINGE BEARING MOUNT 24+	1
2	GA5015659	BEARING, SPHERICAL BUSH, 34.925 ID X 55.663 OD X 30.150MM THICK, GEZ34ES2RS	1
3	DB-ADJ-13	BUSH, STEPPED, 25.5 ID X 40 OD X 69.75MM LONG	2
4	GA5010573	CIRCLIP, INTERNAL, 55MM BORE	1
5	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1

## 24-36m - Lower Pivot Assembly

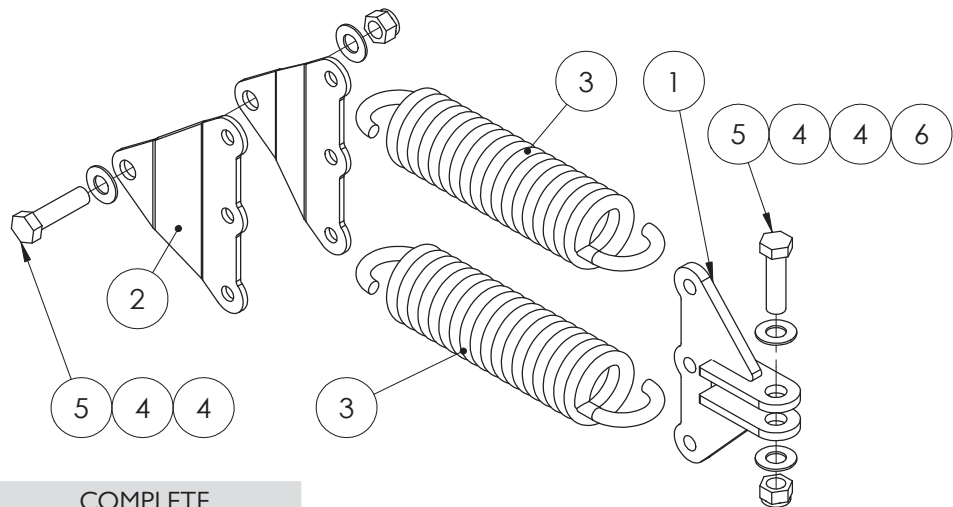


GA4932343 LOWER PIVOT  
ASSEMBLY

# Quantities shown are per side.

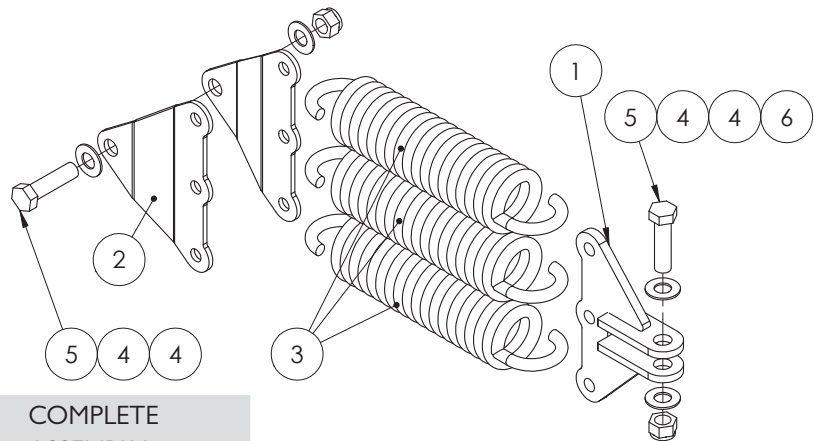
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656190	BOOM HINGE BEARING MOUNT 24+	1
2	GA5015659	BEARING, SPHERICAL BUSH, 34.925 ID X 55.663 OD X 30.150MM THICK, GEZ34ES2RS	1
3	DB-ADJ-02	BUSH, SHORT, 40 OD X 25.5 ID X 23.75MM LONG	2
4	GA5010573	CIRCLIP, INTERNAL, 55MM BORE	1
5	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1

# 24m - Boom Cable Spring



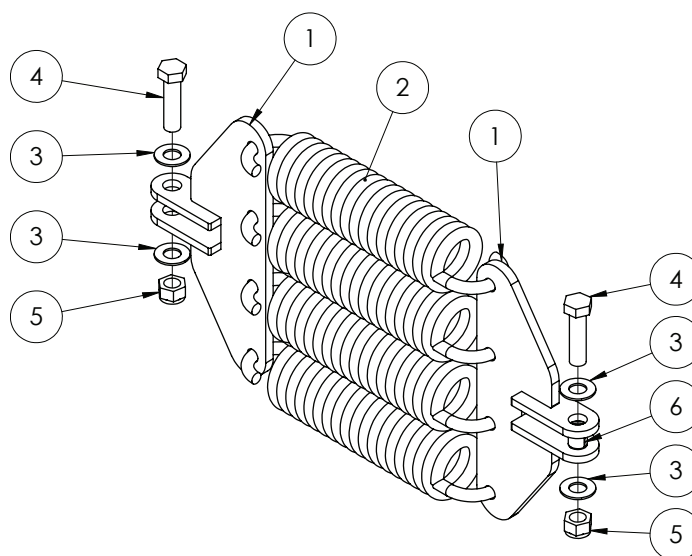
GA4903057		COMPLETE ASSEMBLY	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656230	MOUNT, BOOM CABLE SPRING, SUIT 24 - 33 METER TRITECH BOOM	1
2	F70057A	3 SPRING MOUNTING PLATE SUIT DELTA BOOM	2
3	GA5010793	SPRING, TENSION, 70 OD X 329 LONG X 12MM, LARGE	2
4	GA5001043	WASHER 16MM FLAT SS HD	4
5	GA5000939	BOLT M16 X 60 BLACK GR8.8	2
6	GA5001029	NUT M16 NYLOC ZP	2

# 28-30m - Boom Cable Spring



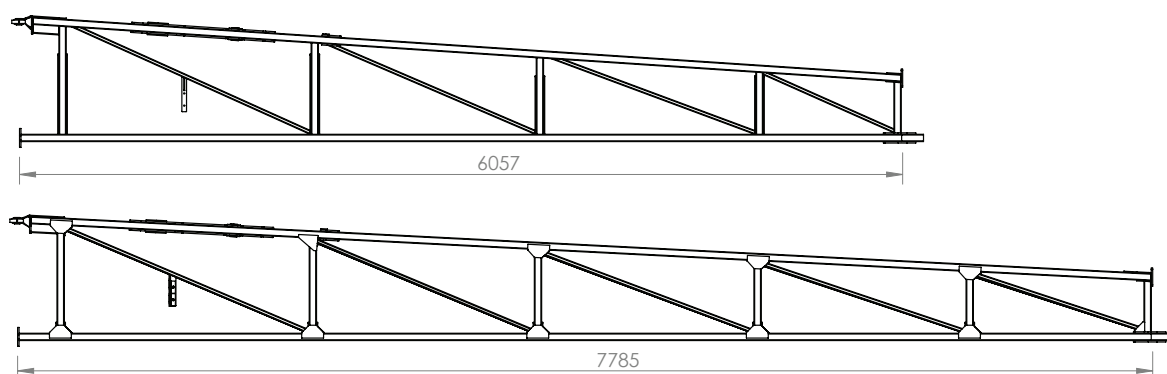
GA4903067		COMPLETE ASSEMBLY	
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656230	MOUNT, BOOM CABLE SPRING, SUIT 24 - 33 METER TRITECH BOOM	1
2	F70057A	3 SPRING MOUNTING PLATE SUIT DELTA BOOM	2
3	GA5010793	SPRING, TENSION, 70 OD X 329 LONG X 12MM, LARGE	3
4	GA5001043	WASHER 16MM FLAT SS HD	4
5	GA5000939	BOLT M16 X 60 BLACK GR8.8	2
6	GA5001029	NUT M16 NYLOC ZP	2

## 33-36m - Boom Cable Springs



GA4905665 COMPLETE ASSEMBLY			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4659710	CABLE SPRING-SHOCKER MOUNT COMPONENT	2
2	GA5010793	SPRING, TENSION, 70 OD X 329 LONG X 12MM, LARGE	4
3	GA5001043	WASHER 16MM FLAT SS HD	4
4	GA5000939	BOLT M16 X 60 BLACK GR8.8	2
5	GA5001029	NUT M16 NYLOC ZP	2
6	GA5075220	GLACIER BUSH FLANGED 16MM SUIT BOOM CABLE PIVOT	1

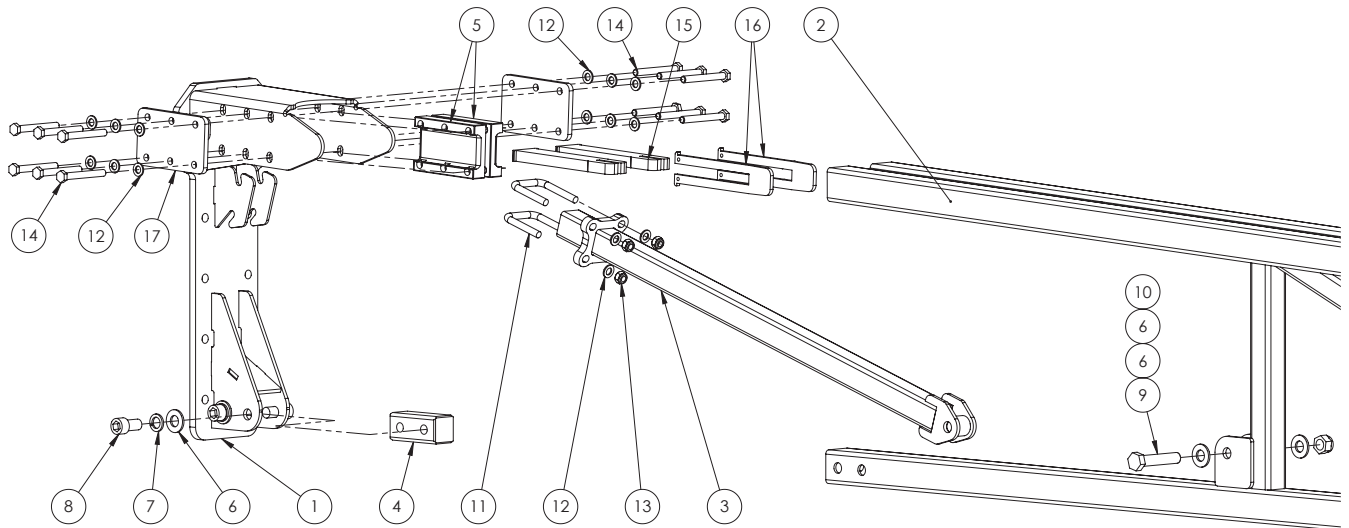
## 24-36m - Steel Inner Wings



PART NUMBER	DESCRIPTION
GA4656780	24-30M BOOM INNER BI-FOLD RH (6057MM)
GA4656785	24-30M BOOM INNER BI-FOLD LH (6057MM)
GA4656791	36M INNER WING RH (7785MM)
GA4656796	36M INNER WING LH (7785MM)



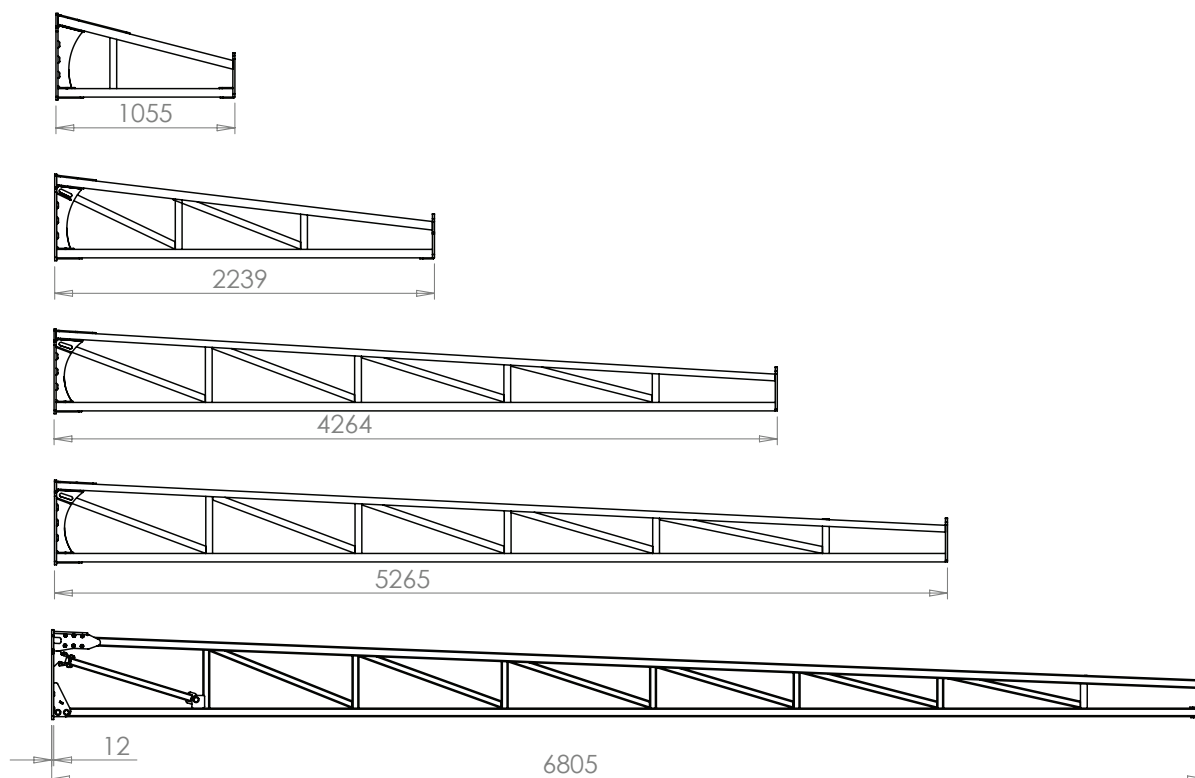
## 36m - Aluminium Outer Assembly



# Quantities shown are per side.

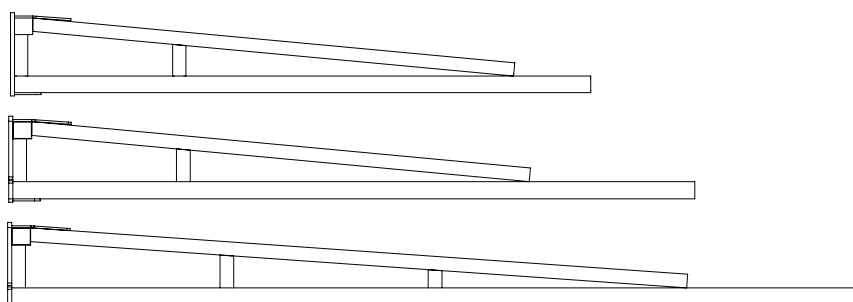
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4660376	MOUNT BRACKET, FOR ALUMINIUM BOOM	1
2	GA4660390	BOOM SECTION, 36M ALUMINIUM, U BOLT MOUNTED	1
3	GA4660740	BRACE BAR, ALUMINIUM BOOM	1
4	GA4550031	THREADED STEEL INSERT BLOCK SUIT 50X50X4 MM, BOTTOM CHORD	1
5	GA4550740	CLAMP BLOCK, ALUMINIUM BOOM MOUNT	2
6	GA5001043	WASHER 16MM FLAT SS HD	6
7	GA5001051	WASHER 16MM SPRING SS	4
8	GA5000915	SHCS M16 X 30 GR12.9 ZP	4
9	GA5011307	BOLT M16 X 80 GR8.8 ZP	1
10	GA5001029	M16 NYLOC NUT	1
11	GA5053645	U BOLT SQUARE TOP M10 X 52 X 75 MM	2
12	GA5000117	WASHER 10MM FLAT SS HD	16
13	GA5000141	NUT M10 NYLOC ZP	4
14	GA5011182	BOLT M10 X 85 GR8.8 ZP	12
15	GA4403910	SPACER INSERT, ALUMINIUM BOOM RHS CHORD	2
16	GA4403915	LOCATING PLATE, SPACER INSERT, ALUMINIUM BOOM RHS CHORD	2
17	GA4404735	PLATE, BOOM CLAMP, OUTER SUPPORT	2

## 24-36m - Aluminium Outer Wings



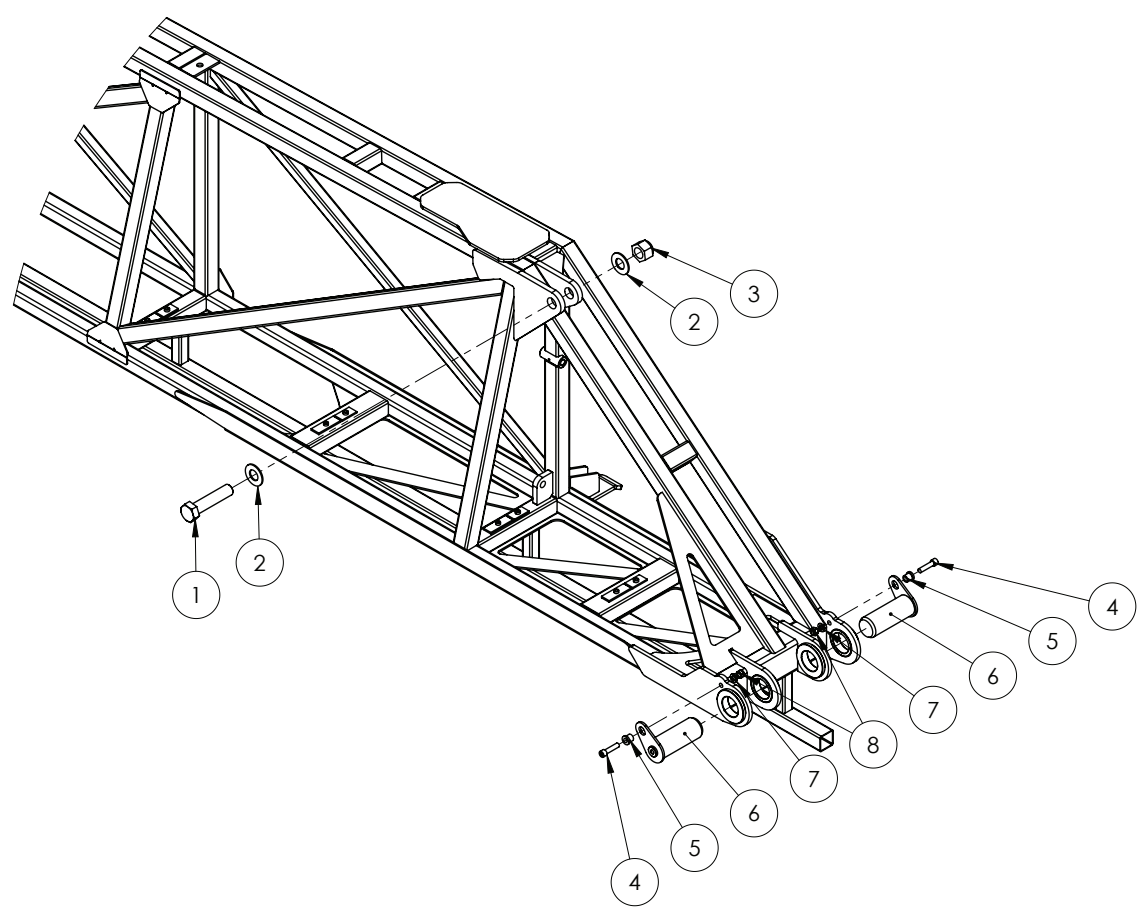
PART NUMBER	DESCRIPTION
GA4659820	24M OUTER BOOM SECTION (1055MM LONG) (FIT WITH 36M INNER)
GA4659965	24M OUTER BOOM SECTION (2239MM LONG) (FIT WITH 30M INNER)
GA4656062	28M OUTER BOOM SECTION (4264MM LONG)
GA4656067	30-33M OUTER BOOM SECTION (5265MM LONG)
GA4907345	36M OUTER BOOM ASSEMBLY (6805MM LONG)

## 24-36m - Aluminium Break Away Tip



PART NUMBER	DESCRIPTION
GA4656640	BOOM BREAKAWAY END - 1.75 M
GA4656123	BOOM BREAKAWAY END - 2.0 M
GA4656124	BOOM BREAKAWAY END - 2.5 M

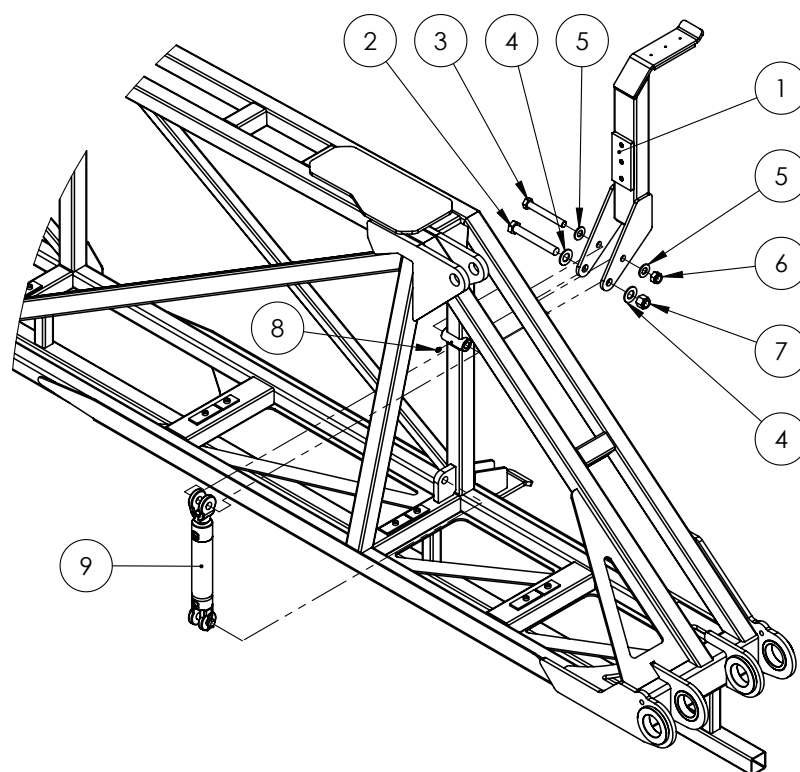
# 48m - Boom Pivot



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA0500073	BOLT, 1 1/4" X 5 1/2" UNC, ZP, GR8	1
2	GA0500072	WASHER, 1 1/4", ZP	2
3	GA0500071	NUT, 1 1/4", NYLOC, ZP, UNC	1
4	GA0500052	SHCS, M12 X 50, GR10.9, ZP	2
5	MACH0152	BUSH WITH SHOULDER, 12.3 ID X 25 OD X 21 MM LONG	2
6	GA4600625	PIN, BOOM TILT PIVOT, 60MM OD, FABRICATED, 48M	2
7	GA5000577	WASHER 12MM FLAT SS HD	2
8	GA5012461	NUT M12 NYLOC ZP	2

## 48m - Boom Catch



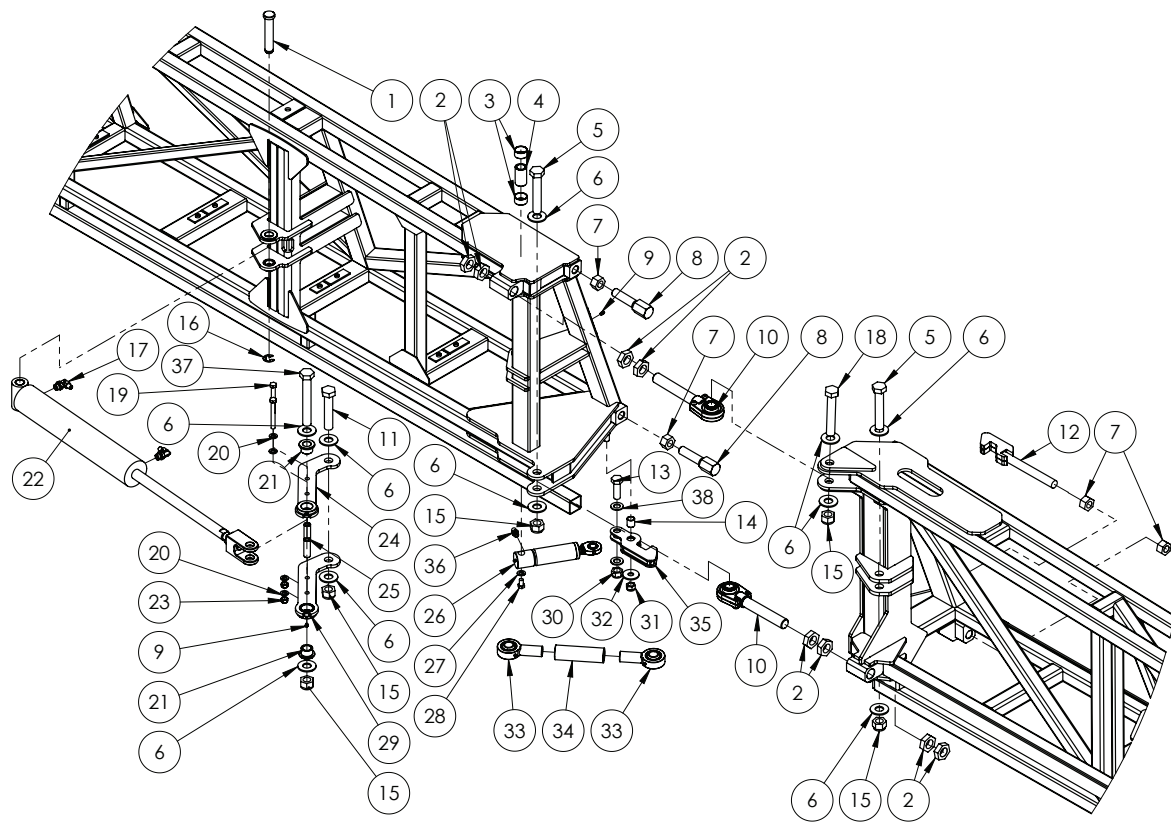
# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	BOOM CATCH ASSEMBLY, 48M BOOM	1
2	GA5070335	BOLT 3/4" UNC X 5 1/2" GR8 ZP	1
3	GA5011275	BOLT M16 X 120 GR8.8 ZP	1
4	GA5001045	WASHER 3/4" FLAT ZP	2
5	GA5001009	WASHER 16MM FLAT ZP HD	2
6	GA5001029	NUT M16 NYLOC ZP	1
7	GA5048430	NUT 3/4" UNC NYLOC ZP	1
8	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
9	GA3500601^	HYDRAULIC CYLINDER , DOUBLE ACTING, 1.5" BORE, 0.875" ROD, 4" STROKE	1

\* Sub-assembly on following pages

^ See Chapter 18 'Hydraulics' for sub-assembly

## 48m - Second Stage Fold



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4572200	PIN, 1" DIAMETER X 132.4 MM LONG, WITH SHOULDER AND CIRCLIP GROOVE	1
2	GA5010963	NUT 1 1/4" UNF 12 TPI ZP LOCK NUT	8
3	GA5055650	GLACIER BUSH, ID 35 X OD 39 X 20 MM LONG	2
4	GA4550210	BUSH, FOLD LINK BOOM END	1
5	GA5048175	BOLT 1" UNC X 5 1/2" GR8 ZP	2
6	GA5017659	WASHER 1" FLAT ZP HD (5MM THICK)	10
7	GA5010991	NUT, 1" UNF, 12 TPI, ZP	4
8	GA4572495	BOLT, 1" UNF, 12 TPI, BOOM DRUM STOPPER	2
9	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	3
10	*	BEARING END WITH 1 1/4" UNF THREADED ADJUSTER ASSEMBLY	2
11	GA5006031	BOLT 1" UNC X 5"	1
12	GA4600725	LATCH HOOK, ADJUSTER, 48M BOOM	1
13	GA5011333	BOLT M20 X 60 GR8.8 ZP	1
14	GA5009461	GLACIER BUSH 20 ID X 25 MM LONG	1
15	GA5012439	NUT 1" UNC NYLOC ZP	5
16	GA5001223	CIRCLIP, 19MM, E TYPE, ZINC PLATED	1

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## 48m - Second Stage Fold

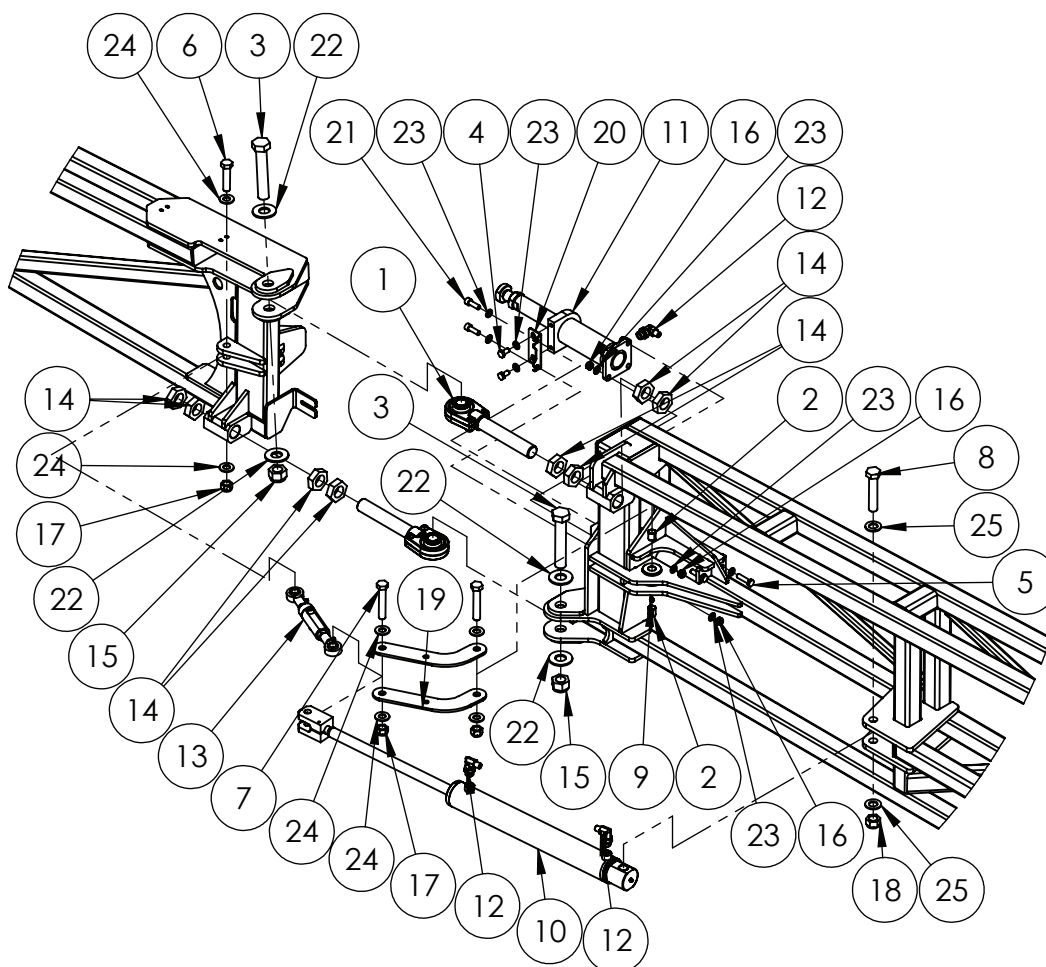
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
17	GA3500348	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	2
18	GA5006033	BOLT 1" UNC X 6" ZP	1
19	GA5000259	BOLT M12 X 100 GR8.8 ZP	2
20	GA5000577	WASHER 12MM FLAT SS HD	4
21	GA4550205	FLANGE BUSH, ROD END PIVOT	2
22	GA3500060^	HYDRAULIC CYLINDER, BORE 2.5", ROD 1.25", STROKE 400MM	1
23	GA5012461	NUT M12 NYLOC ZP	2
24	GA4601005	FOLD LINK, TOP, ROD END	1
25	GA4550215	LINK SPACER	2
26	GA3500480^	HYDRAULIC CYLINDER, BORE 1.5", ROD 0.875", STROKE 28MM, DISPLACEMENT, SPRING RETURN	1
27	GA5017655	WASHER 1/2" FLAT SS	1
28	GA5011227	BOLT M12 X 20 GR8.8 ZP	1
29	GA4601010	FOLD LINK, BOTTOM, ROD END	1
30	GA5048125	NUT M20 NYLOC COARSE ZP	1
31	GA5001029	NUT M16 NYLOC ZP	1
32	GA5011955	WASHER 16 MM X 50 X 4 MUDGUARD ZP	1
33	GA5070530	ROSE END 1" X 1 1/4" MALE UNF THREAD	2
34	GA4550230	BUSH, ROSE END LINK, 1 1/4" UNF, 150MM LONG	1
35	GA4600720	LATCH HOOK, PIVOT, 48M BOOM	1
36	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	1
37	GA5006147	Bolt 1" UNC x 7" GR8 ZP	1
38	GA5001741	Washer 20mm Flat SS HD	2

\* Sub-assembly on following pages

^ See Chapter 18 'Hydraulics' for sub-assembly

# Quantities shown are per side.

## 48m - Third Stage Fold



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4908665	BEARING END WITH 1 1/4" UNF THREADED ADJUSTER ASSEMBLY, BOOM HINGE	2
2	GA1700013	BEARING, GLACIER BUSH, 16mm ID X 20mm LONG	2
3	GA5048175	BOLT 1 UNC X 5 1/2 GR8 ZP	2
4	GA5006113	BOLT M10 X 20 GR8.8 ZP	2
5	GA5006079	BOLT M10 X 40 SS A2-70	4
6	GA5000949	BOLT M16 X 70 GR8.8 ZP	1
7	GA5011297	BOLT M16 X 90 GR8.8 ZP	2
8	GA5048355	BOLT M20 X 100 GR8.8 ZP	1
9	GA5050450	GREASE NIPPLE, 6mm	1
10	GA3500476	HYDRAULIC CYLINDER, FOLD, OUTER, 48m BOOM	1
11	GA3500479	HYDRAULIC CYLINDER, 2", BORE 1.5", ROD, 80mm STROKE, BREAKAWAY, 48M BOOM	1
12	GA3500348	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	3
13	GA4902265	LINK ASSEMBLY, THIRD STAGE FOLD, 48M BOOM	1

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## 48m - Third Stage Fold

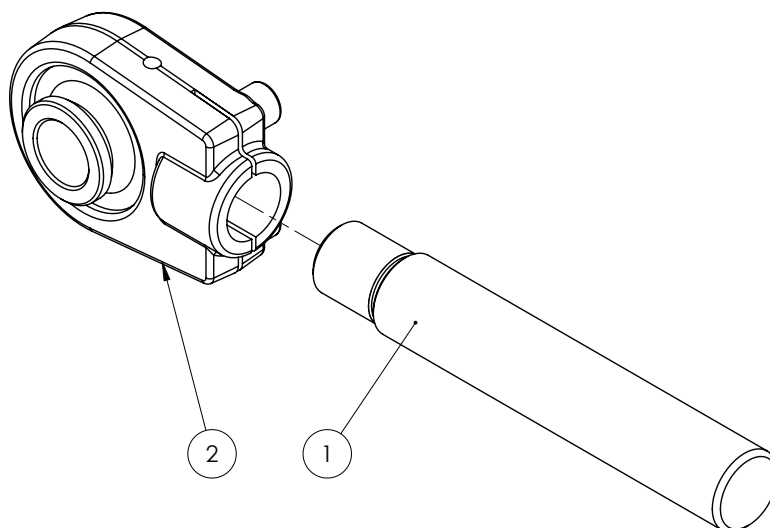
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
14	GA5010963	NUT 1 1/4 UNF 12 TPI ZP LOCK NUT	8
15	GA5012439	NUT 1" NYLOC UNC ZP	2
16	GA5051445	NUT M10 NYLOC SS	6
17	GA5012463	NUT M16 NYLOC SS	3
18	GA5048125	NUT M20 NYLOC COARSE ZP	1
19	GA4401080	PLATE, FOLD LINK, OUTER FOLD, 48m BOOM	2
20	GA4401860	PLATE, MOUNT BRACKET, BREAKAWAY CYLINDER SUPPORT, 48m BOOM	1
21	GA5006129	SHCS M10 X 30 GR12.9 ZP	2
22	GA5017659	WASHER 1 FLAT ZP HD (5mm THICK)	4
23	GA5000117	WASHER 10mm FLAT SS HD	14
24	GA5001043	WASHER 16mm FLAT SS HD	6
25	GA5001741	WASHER 20mm FLAT SS HD	2

\* Sub-assembly on following pages

^ See Chapter 18 'Hydraulics' for sub-assembly

# Quantities shown are per side.

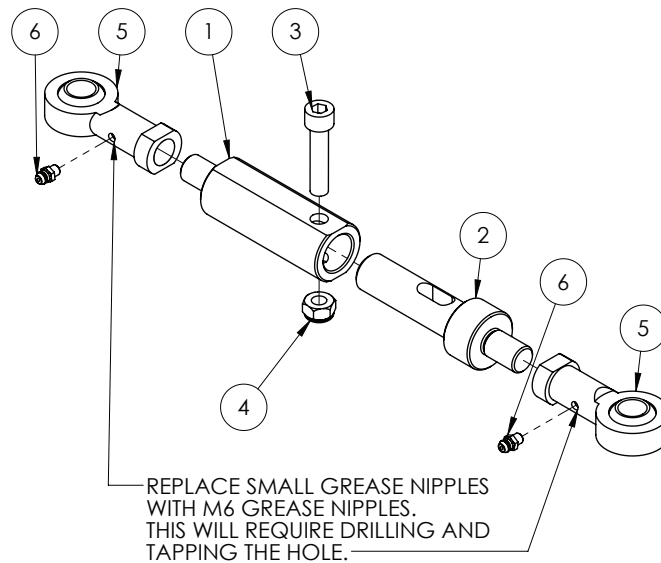
## 48m - Boom Bearing End Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
-	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	1
-	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	1
-	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	2
1	GA4550645	THREADED BOOM PIVOT ADJUSTER, 1 1/4" UNF AND M28 THREADS	1
2	GA5052965	BEARING, ROSE END HOUSING, M28 SCREW ON, SUIT HYDRAULIC CYLINDER AND DELTA LINK, NO BUSHES	1

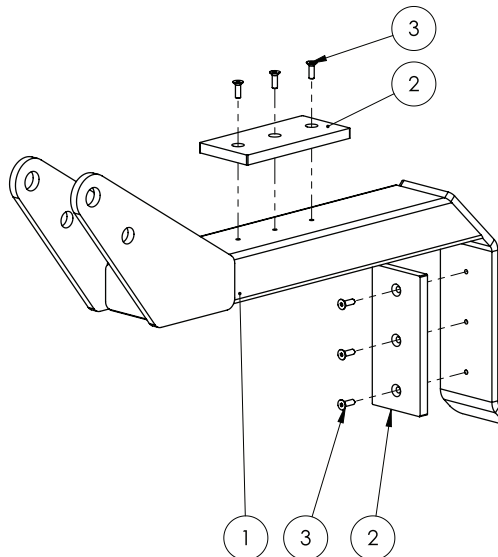


## 48m - Boom Link Assembly



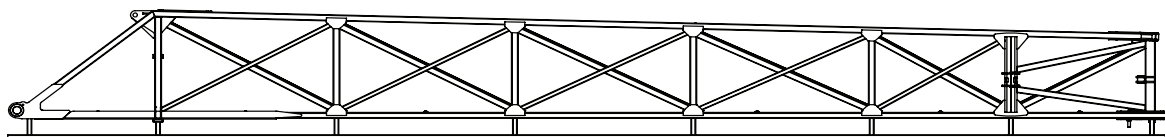
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4550900	LINK, OUTER, THIRD FOLD, 48M BOOM	1
2	GA4550905	LINK, INNER, THIRD FOLD, 48M BOOM	1
3	GA5011183	SHCS M10 X 45 SS A2-70	1
4	GA5000141	NUT M10 NYLOC ZP	1
5	GA5014469	ROD END, BALL 16 ID, M16 FEMALE THREAD	2
6	GA5050450	GREASE NIPPLE 6MM	2

## 48m - Boom Catch Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4600730	TRANSPORT CATCH ARM, 48M BOOM	1
2	GA5072450	PLASTIC WEAR STRIP BOOM REST POLYSTONE 7000SR 65 X 140 X 10 MM	2
3	GA5051230	CSCS M5 X 16 SS A2-70	6

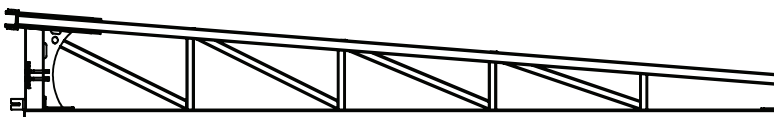
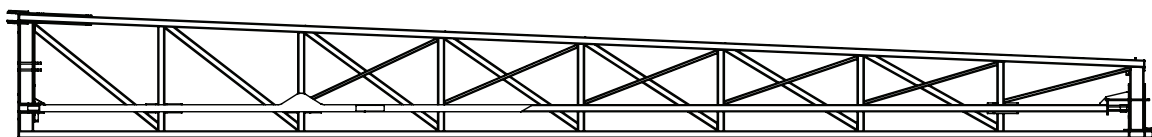
## 48m - Boom Wings Inner - Steel



Measurement Centre of Pin Hole to Pin Hole

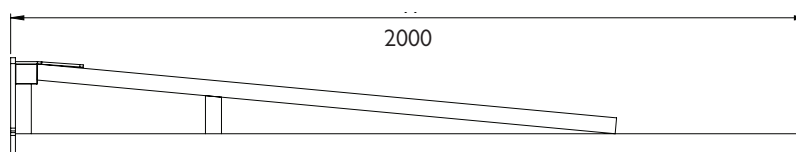
PART NUMBER	DESCRIPTION
GA4600635	BOOM INNER 48M LH - 8607 MM
GA4600640	BOOM INNER 48M RH - 8607 MM

## 48m - Boom Wings Outer - Aluminium



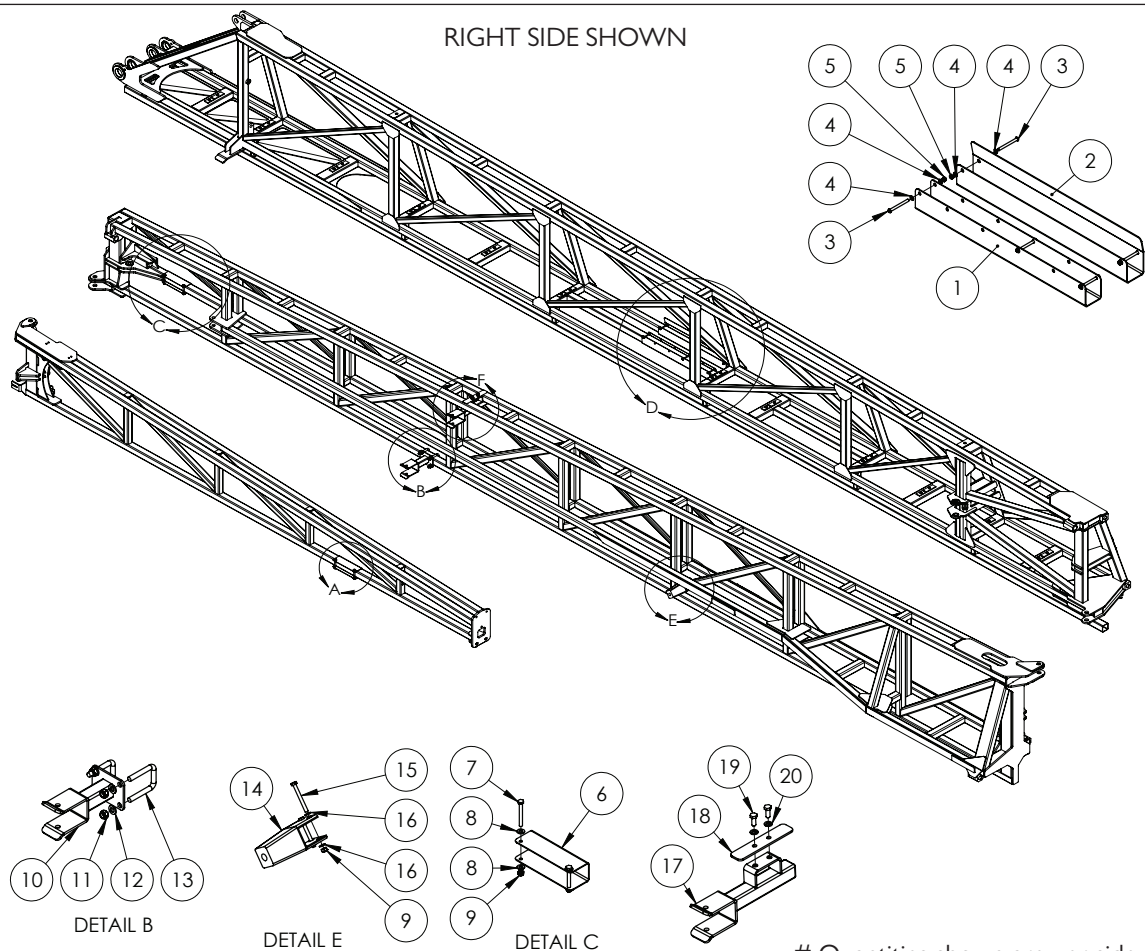
PART NUMBER	DESCRIPTION
GA4600650	BOOM OUTER, 48M ALUMINIUM RH - 8115 MM
GA4600645	BOOM OUTER, 48M ALUMINIUM LH - 8115 MM
GA4600660	BOOM OUTER, 48M ALUMINIUM RH - 4080MM
GA4600655	BOOM OUTER, 48M ALUMINIUM LH - 4080MM

## 48m - Breakaway Aluminium Tip



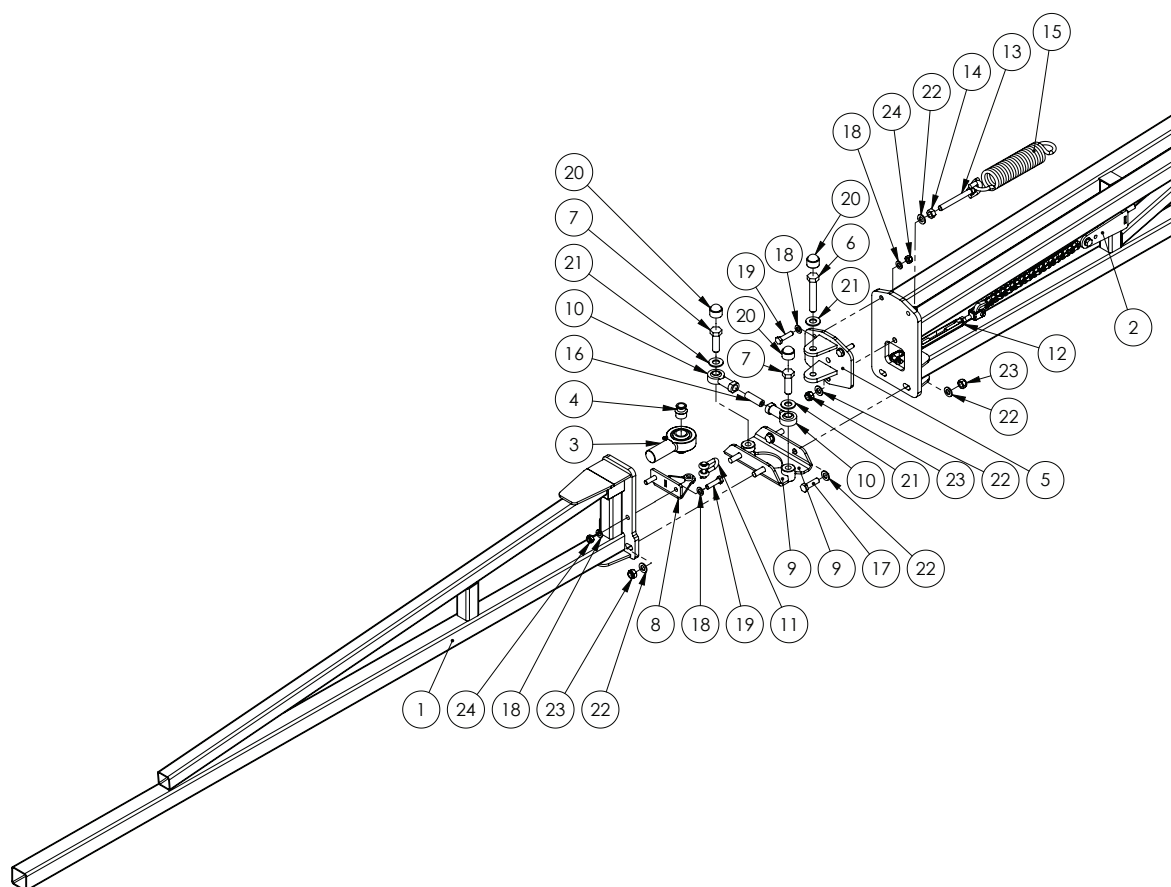
PART NUMBER	DESCRIPTION
GA4656123	ALUM BREAKAWAY 2M, SUIT 3D BREAKAWAY 2.0

## 48m - Boom Bumper & Protectors



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	F70799A	PROTECTOR, OUTER WING, SUIT 50 X 50 RHS, 600 MM LONG, 2MM SS	1
2	GA4505972	BOOM PROTECTOR SS FITS OVER GUSSET	1
3	GA0500067	BHCS M6 X 65 GR12.9 ZP	5
4	GA5004437	WASHER 6MM FLAT SS	10
5	GA5048115	NUT M6 NYLOC ZP	5
6	F70294A	BOOM WING PROTECTOR SUIT 50 X 50 200MM LONG (2MM SS)	2
7	GA5004737	BOLT M8 X 70 SS A2-70	4
8	GA5003643	WASHER 8MM FLAT SS HD	8
9	GA5052590	NUT M8 NYLOC SS	6
10	GA4601280	BOOM FOLD SUPPORT BRACKET, 48M	1
11	GA5012461	NUT M12 NYLOC ZP	4
12	GA5000577	WASHER 12MM FLAT SS HD	4
13	GA5011251	U BOLT SQUARE TOP M12 X 52MM X 80MM	2
14	GA5006226	BOOM STOPPER, RUBBER, 210MM BUMPER, SUITS 50 X 50MM RHS	1
15	GA5052600	BOLT M8 X 75 SS A2-70	2
16	GA5003643	WASHER 8MM FLAT SS HD	4

## 24-48m - 3D Breakaway Tip



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656123	ALUM BREAKAWAY 2M, SUIT 3D BREAKAWAY 2.0	1
2	*	BREAKAWAY MECHANISM	1
3	GA5070530	ROSE END 1" X 1 1/4" MALE UNF THREAD	1
4	GA4552225	SPACER BUSH, ROSE END, SUIT BREAKAWAY 3D 2.0	2
5	GA4656131	ROSE END CLEVIS, BREAKAWAY	1
6	GA5011297	BOLT M16 X 90 GR8.8 ZP	1
7	GA5000931	BOLT M16 X 50 GR8.8 ZP	2
8	GA4659810	BREAKAWAY HINGE BRACKET	1
9	GA4659336	LOWER PIVOT BRACKET	2
10	GA5014469	ROD END, BALL 16 MM ID, M16 FEMALE THREAD	2
11	GA5071060	UTILITY CLEVIS 10 MM	1
12	GA5070505	TURNBUCKLE / RIGGING SCREW, 10MM, SS, CLEVIS ENDS	1
13	GA5075150	EYE BOLT 12MM X 100MM SHORT	1
14	GA5000559	NUT M12 HEX ZP	1
15	GA5016605	SPRING, TENSION, 51.5 OD X 260 LONG X 8MM, BREAKAWAY	1
16	GA5071105	GRUB SCREW M16 X 50	1
17	GA5000319	SET SCREW M12 X 40 GR8.8 ZP	4

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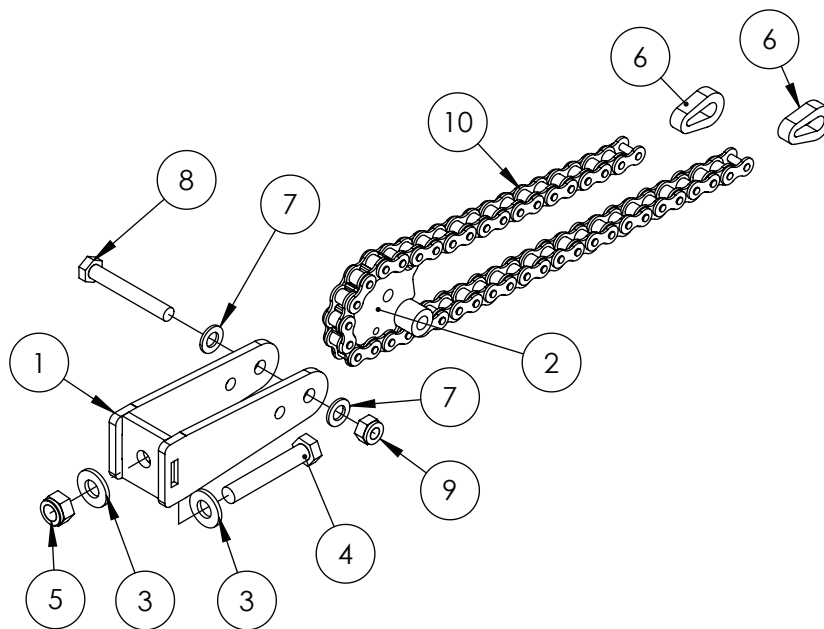
## 24-48m - 3D Breakaway Tip

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
18	GA5000117	WASHER 10MM FLAT SS HD	8
19	GA5011161	SET SCREW M10 X 40 GR8.8 ZP	4
20	GA5075080	END CAP, PLASTIC, BLACK, COVER, HEX. DOME, M16	3
21	GA5001043	WASHER 16MM FLAT SS HD	3
22	GA5000577	WASHER 12MM FLAT SS HD	10
23	GA5012461	NUT M12 NYLOC ZP	5
24	GA5000141	NUT M10 NYLOC ZP	4

\* Sub-assembly on following pages

# Quantities shown are per side.

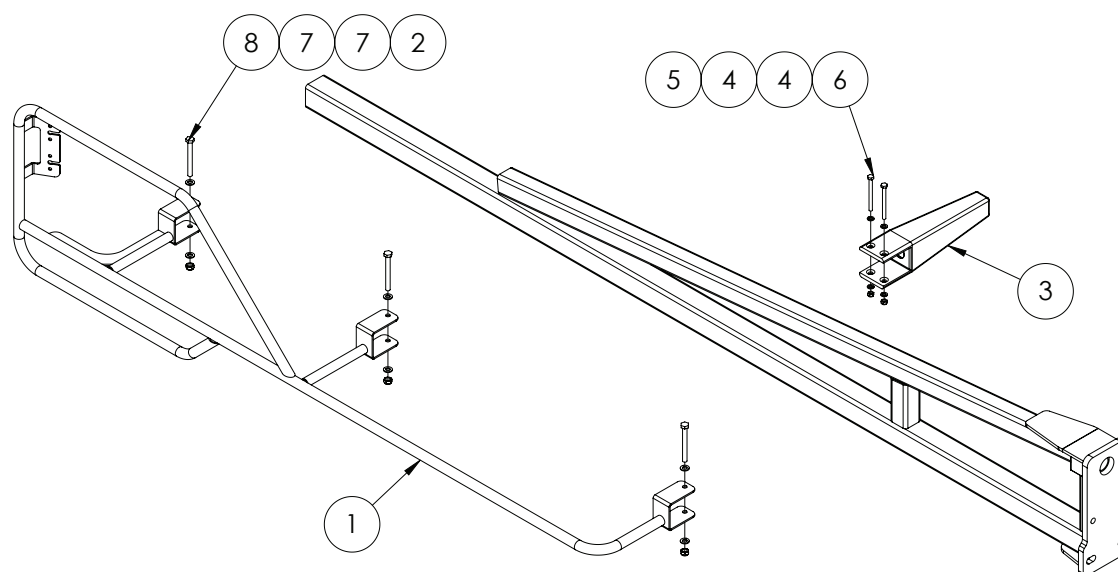
## 24-48m - 3D Breakaway Mechanism



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	GA4659805	BREAKAWAY MOUNT	1
2	GA4659800	BREAKAWAY CENTRE PIVOT FAB ASSEMBLY	1
3	GA5000577	WASHER 12MM FLAT SS HD	2
4	GA5000347	BOLT M12 X 70 ZP GR8.8	1
5	GA5012461	NUT M12 NYLOC ZP	1
6	GA4505695	LINK PLATE CHAIN END, SUIT BREAKAWAY	2
7	GA5000117	WASHER 10MM FLAT SS HD	2
8	GA5011163	BOLT M10 X 70 ZP GR8.8	1
9	GA5000141	NUT M10 NYLOC ZP	1
10	GA5068985	CHAIN, 5/8", 41 PITCH BREAKAWAY HINGE, INC 2 JOINING LINKS, 43 ROLLERS TOTAL	1

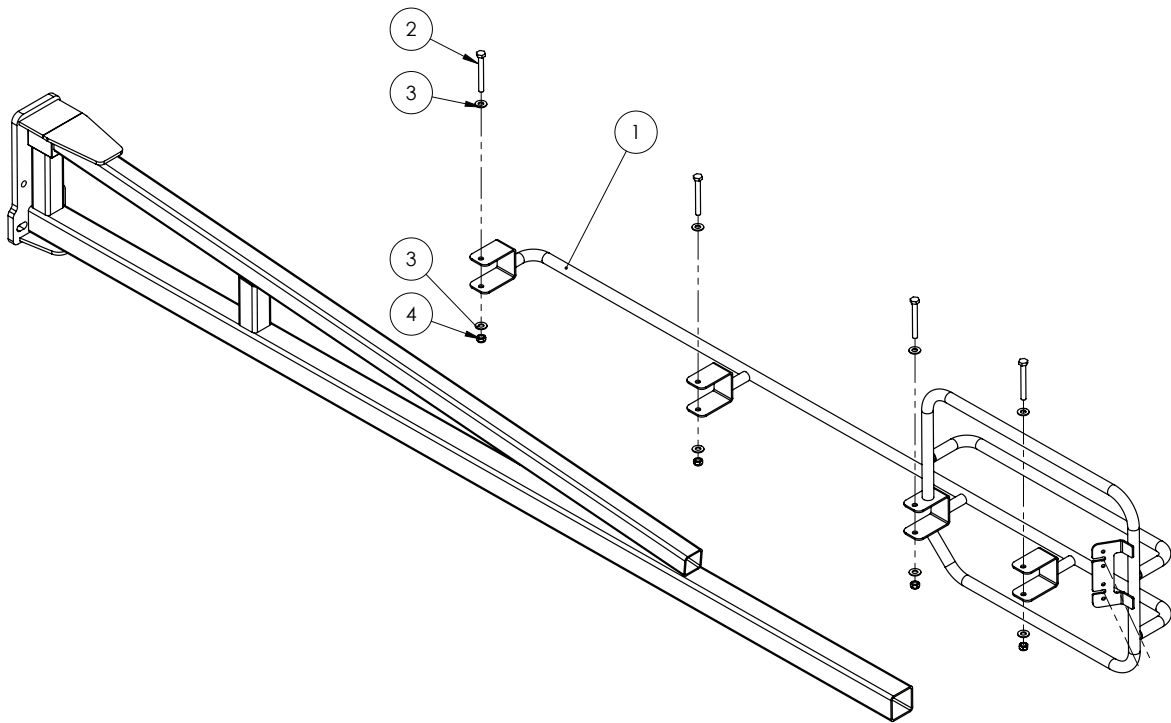
## 24-36m - 3D Breakaway Tip - End Protector



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4656316	BOOM END PROTECTOR EASY FIT, RIGHT HAND	1
	GA4656317	BOOM END PROTECTOR EASY FIT, LEFT HAND	
2	GA5004917	NUT M8 NYLOC ZP	3
3	GA5006226	BOOM STOPPER, RUBBER, 210MM BUMPER, SUITS 50 X 50MM RHS	1
4	GA5004437	WASHER 6MM FLAT SS	4
5	GA5048115	NUT M6 NYLOC ZP	2
6	GA5004107	BOLT M6 X 70 ZP GR8.8	2
7	GA5003643	WASHER 8MM FLAT SS HD	6
8	GA5052600	BOLT M8 X 75 SS A2-70	3

# 48m - 3D Breakaway Tip - End Protector



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4601260	BOOM END PROTECTOR, LH, SLIM	1
	GA4601265	BOOM END PROTECTOR, RH, SLIM	
2	GA5004737	BOLT M8 X 70 SS A2-70	4
3	GA5003643	WASHER 8MM FLAT SS HD	8
4	GA5052590	NUT M8 NYLOC SS	4



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
-	GA4902492	TOUCH DOWN WHEEL LH ASSEMBLY	-
	GA4902491	TOUCH DOWN WHEEL RH ASSEMBLY	-
1	GA4657650	BOOM TOUCH DOWN WHEEL ARM	1
2	GA4657645	PIVOT PIN, SUIT BOOM TOUCH DOWN WHEEL SWING ARM	1
3	GA4657655	SWING ARM BOOM TOUCH DOWN WHEEL	1
4	GA4583030	SPACER TOUCH DOWN WHEEL	1
5	GA5052275	PRESS WHEEL 15" WITH SEALED BEARINGS	1
6	GA4535115	BEARING WASHER, SUIT TOUCH DOWN WHEEL	1
7	GA5012446	NUT 1" UNF 12 TPI NYLOC ZP	1
8	GA4657640	MOUNT BOOM TOUCH DOWN WHEEL	1
9	GA5000311	SET SCREW, M12 X 35, ZP GR 8.8	2
10	GA5000559	NUT M12 HEX ZP	2
11	GA5011251	U BOLT, SQUARE TOP, M12 X 52MM X 80MM	3
12	GA5011465	BOLT M8 X 16 ZP GR8.8	1
13	GA5012461	NUT M12 NYLOC ZP	6
14	GA5003643	WASHER 8MM FLAT SS HD	1

Continued over page



## Touch Down Wheel

ITEM NO.	PART NUMBER	DESCRIPTION	QTY
15	GA5067085	SHOCKER, UNIVERSAL, 320MM EYE TO EYE	1
16	GA5009463	GLACIER BUSH, ID 25 X 15MM LONG	2
17	GA4583100	BUSH, BLACK NYLON, 30 OD X 10 ID X 16.5MM	4
18	GA5000117	WASHER 10MM FLAT SS HD	6
19	GA5006101	BOLT M10 X 65 ZP GR8.8	2
20	GA5000141	NUT M10 NYLOC ZP	2
21	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
22	GA5052375	HOSE LAY FLAT 63MM BLUE (CUT 270MM LONG)	1
23	GA5000577	WASHER 12MM FLAT SS HD	6
24	GA5004919	WASHER 8MM SPRING SS	1
25	GA4522315	WASHER, 27 ID X 40 OD X 2MM THICK, SS	2

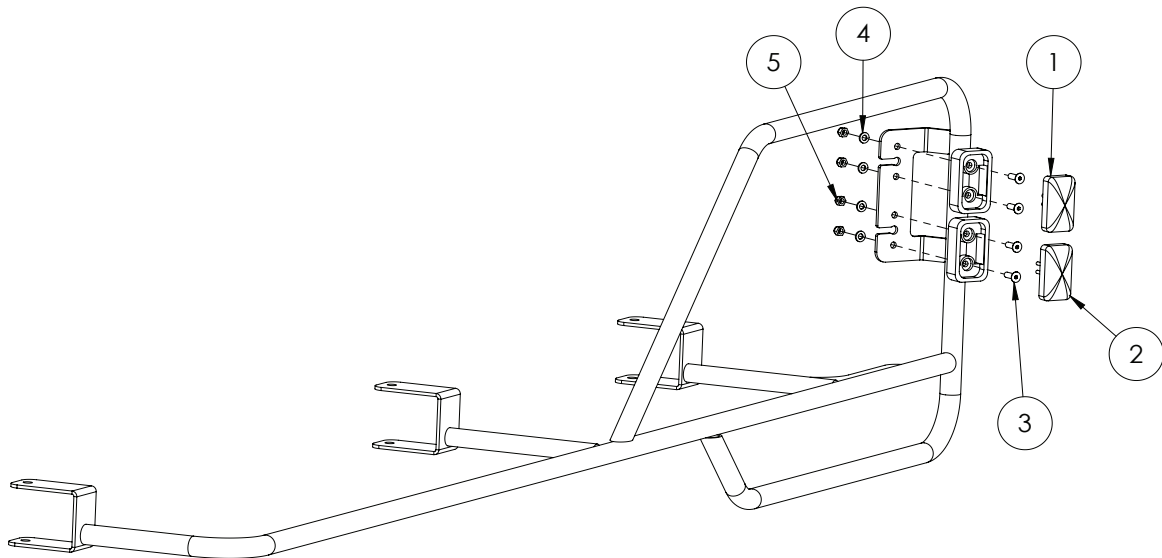
# Quantities shown are per side.



# Chapter 15

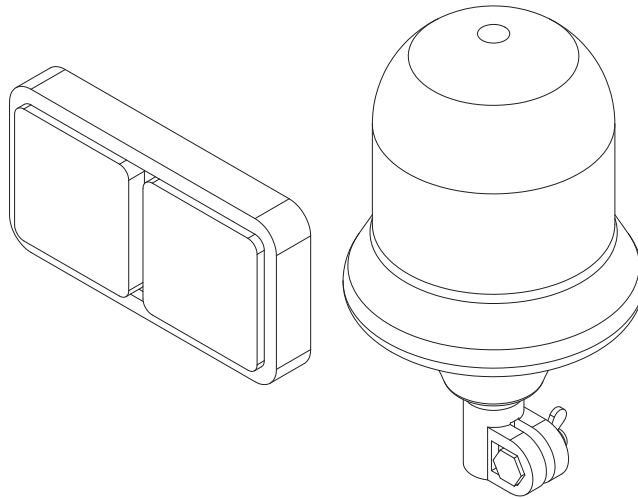
## ELECTRICS

### Lighting - Boom Tip LEDs



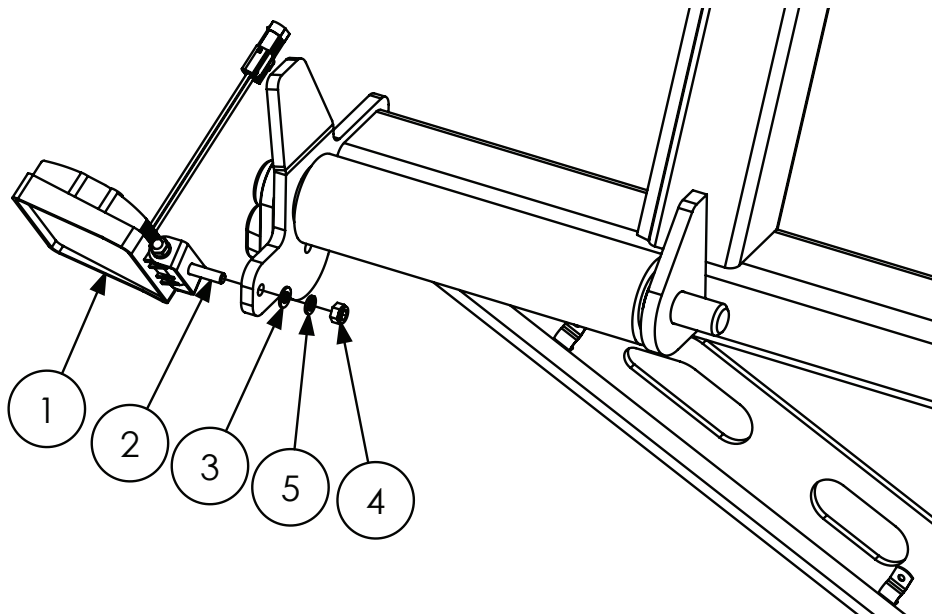
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060057	CLEARANCE LIGHT WITH CONNECTOR, ORANGE LED	1
2	GA5060056	CLEARANCE LIGHT WITH CONNECTOR, RED LED	1
3	GA5051230	CSCS M5 X 16 SS A2-70	4
4	GA5003983	WASHER 5MM FLAT SS	4
5	GA5003975	NUT M5 NYLOC SS	4

## Lighting - Tail Light & Beacon



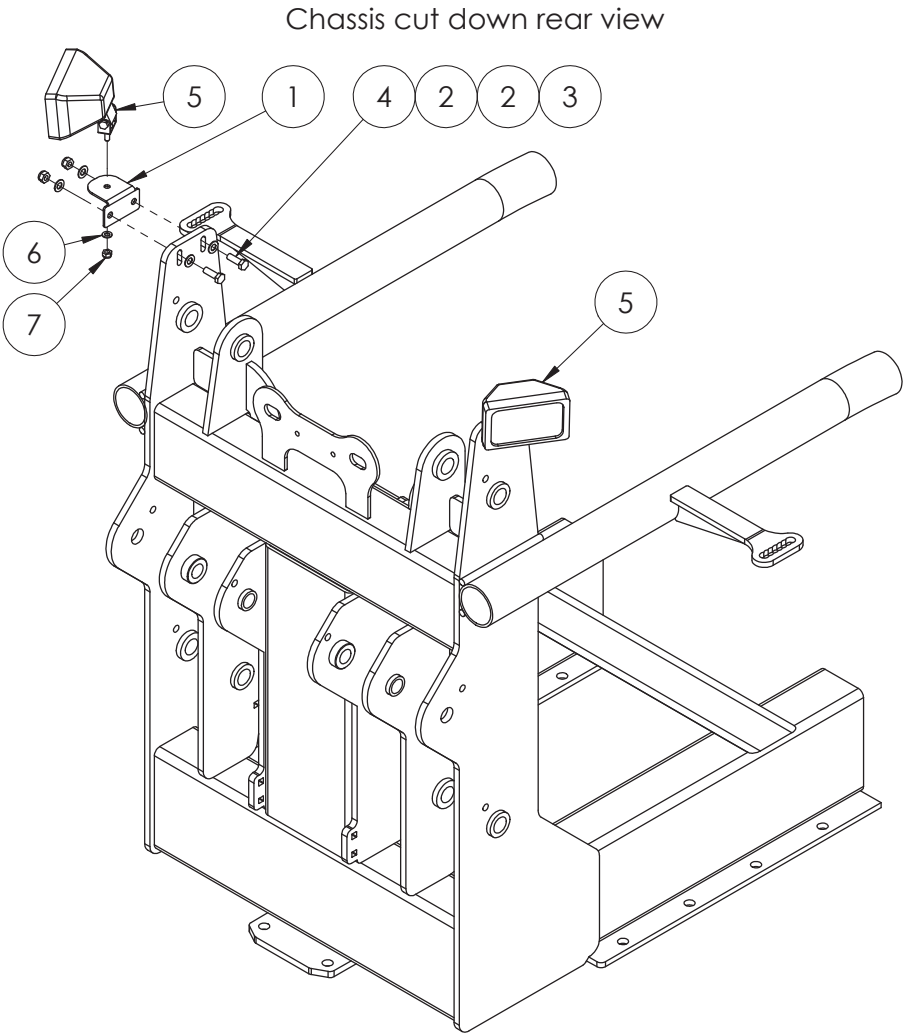
PART NUMBER	DESCRIPTION
GA5018786	LAMP, LED, 12V, BRAKE / TAIL LIGHT / INDICATOR, 190 X 100MM
GA5048975	BEACON, ROTATING, AMBER, DIN A POLE MOUNT, HI GLOBE INCLUDED
GA5012093	GLOBE, BEACON, HI 12V 55W, NARVA

## Lighting - POD Work Light



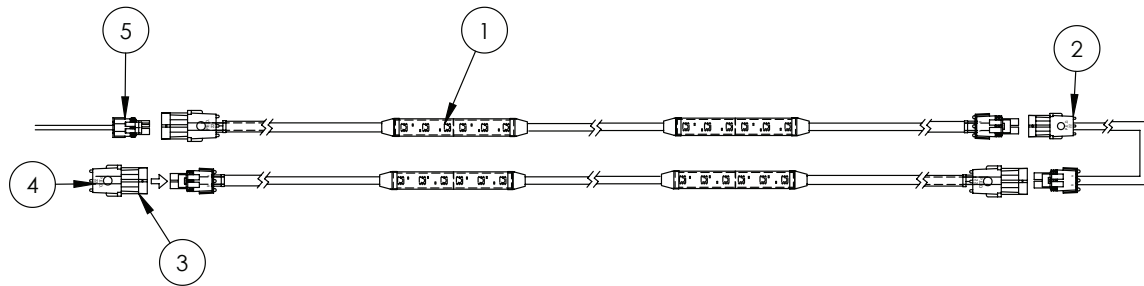
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075500	LIGHT, LED, WORK, FLOOD BEAM, BARE WIRES, 15W	1
	GA4913495	LIGHT, POD WORK LIGHT ASSEMBLY, LED, FLOOD BEAM	
2	GA5011477	SET SCREW M8 X 30 ZP GR8.8	1
3	GA5003643	WASHER 8MM FLAT SS HD	1
4	GA5052590	NUT M8 NYLOC SS	1
5	GA5004919	WASHER 8MM SPRING SS	1

# Lighting - Boom Lights



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4522570	BRACKET BOOM LIGHT MOUNTING SUIT EF	2
2	GA5000117	WASHER 10MM FLAT SS HD	8
3	GA5000141	NUT M10 NYLOC ZP	4
4	GA5065455	BOLT M10 X 30 ZP GR8.8	4
5	GA5050105	LIGHT, WORK, FLOOD STRINGRAY 138 X 82MM, BARE WIRES	2
6	GA5003643	WASHER 8MM FLAT SS HD	2
7	GA5051700	NUT 5/16" UNC NYLOC ZP	2

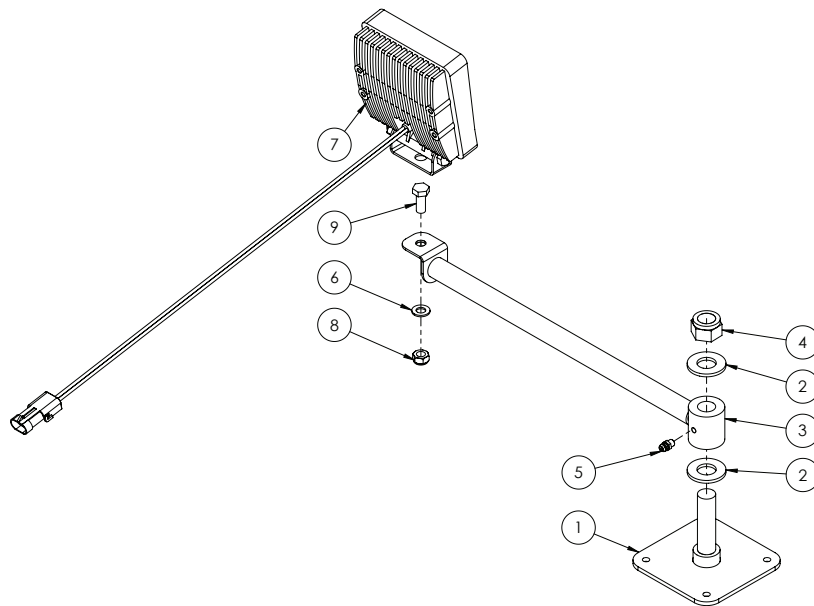
## Lighting - Night Pro LEDs



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5060136	HARNESS, BOOM LIGHT 2 LED STRIP, 12V 0.24AMP	36
2	GA5060137	HARNESS, PIVOT EXTENSION 2000MM	4
	GA5060138	HARNESS, PIVOT EXTENSION 5000MM	-
3	GA5007381	CONNECTOR, 2 PIN, FEMALE, WEATHER PACK	4
4	GA5050245	SEAL, CAVITY BLANKING PLUG, WEATHER PACK CONNECTOR	8
5	GA3000016	HARNESS, QUAD SPLITTER, SUIT NIGHT PRO POWER SUPPLY	1

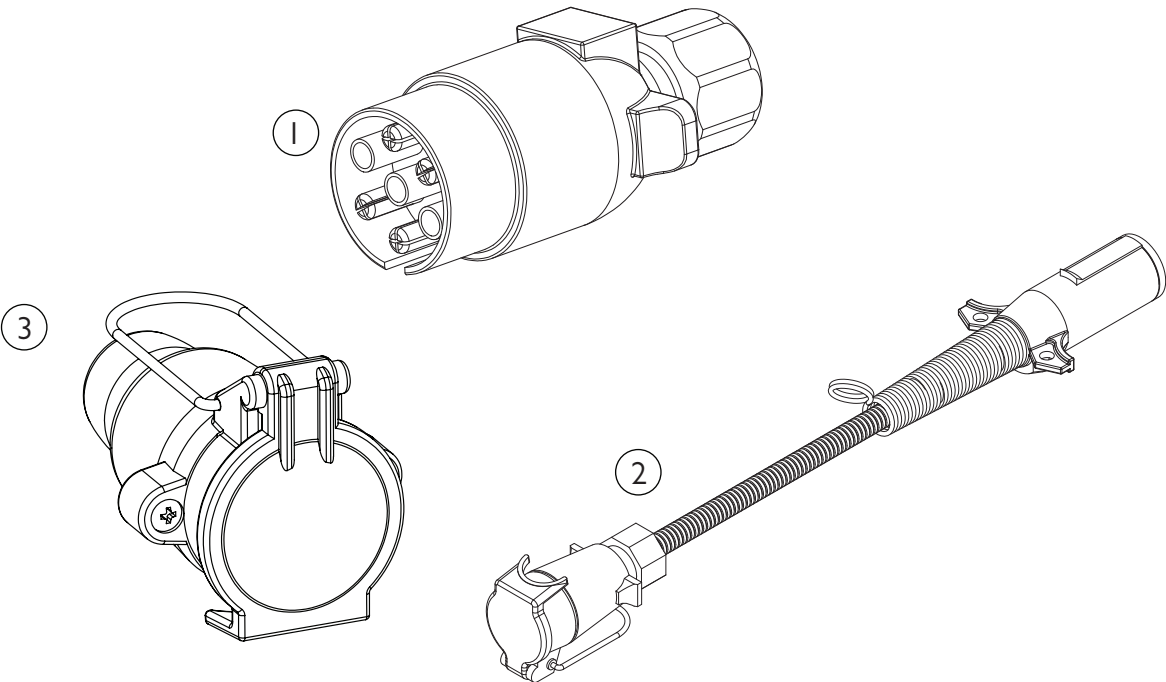
NOTE: The quantity shown is for a full 36 meter boom.

## Lighting - Pod



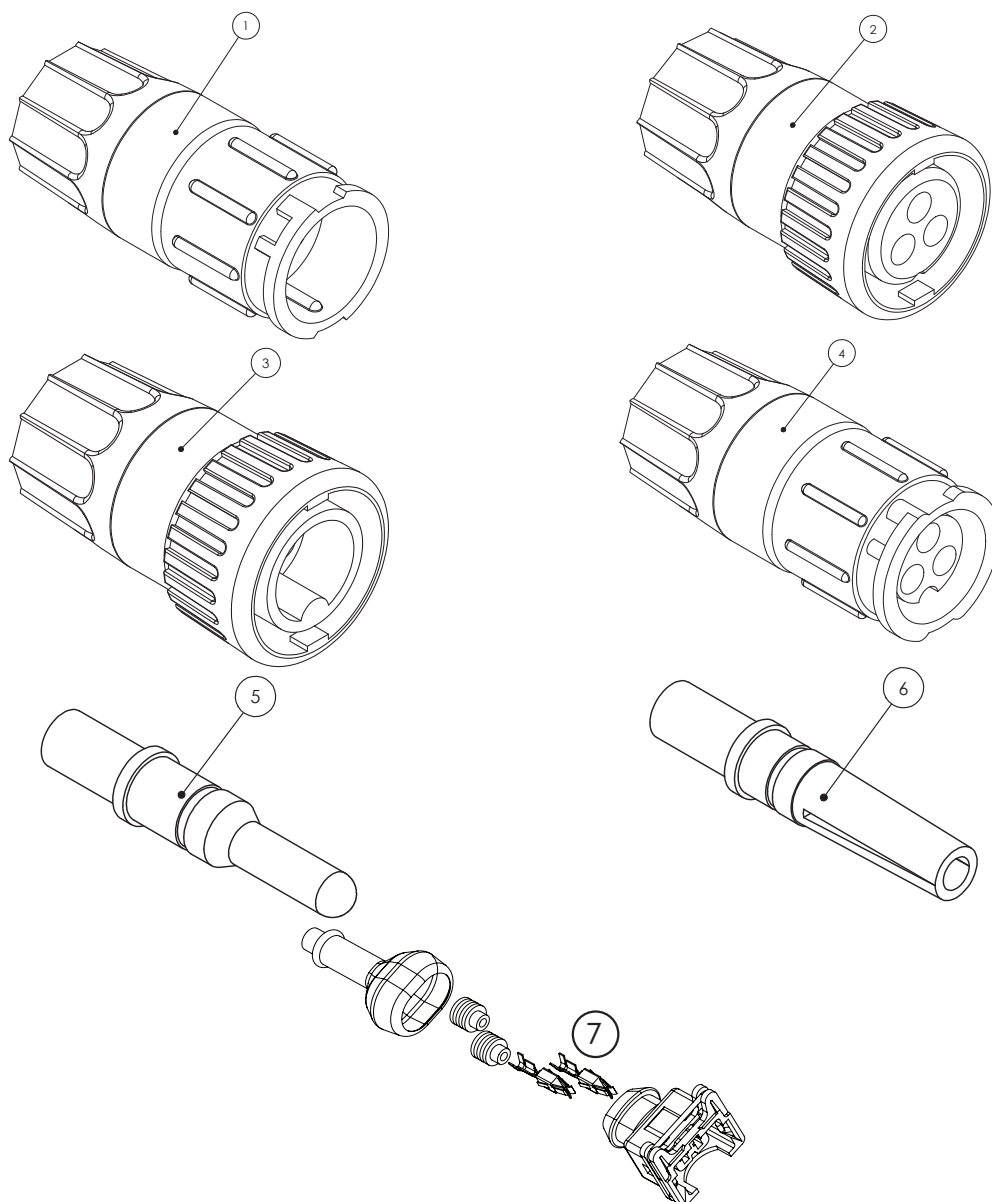
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4657105	PRAIRIE HOPPER LIGHT ARM MOUNT	1
2	GA5001043	WASHER 16MM FLAT SS HD	2
3	GA4657107	PRAIRIE HOPPER LIGHT ARM	1
4	GA5001029	NUT M16 NYLOC ZP	1
5	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
6	GA5003643	WASHER 8MM FLAT SS HD	2
7	GA5075500	LIGHT, LED, WORK, FLOOD BEAM, BARE WIRES, 12V, 24W	1
8	GA5004917	NUT M8 NYLOC ZP	1
9	GA5052595	BOLT M8 X 20 SS A270	1

# Electrical Components



ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5004477	PLUG, 7 PIN TRAILER TYPE, MALE, PLASTIC
2	GA5060350	ELECTRICAL HARNESS, ADAPTOR, 7 PIN FEMALE TRAILER PLUG TO NORTH AMERICAN STYLE MALE TRAILER PLUG
3	GA5004479	7 POLE REMOTE BASE

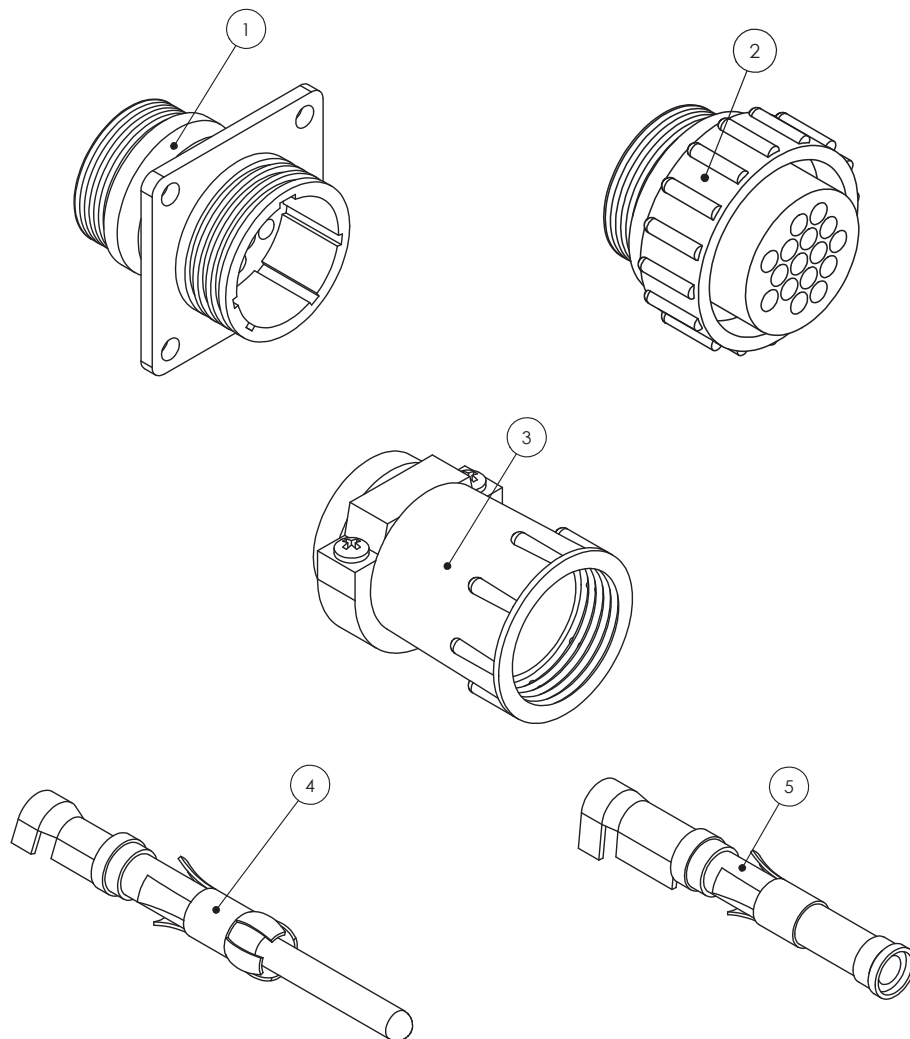
## Electrical Connectors - AMP



ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5076921	CONNECTOR, 3 PIN KIT, FLOW METER, INCLUDING MALE PINS, RAVEN
2	GA5076922	CONNECTOR, 3 PIN KIT, FLOW METER, INCLUDING FEMALE PINS, RAVEN
3	GA5076920	CONNECTOR, 3 PIN KIT, SPEED SENSOR, INCLUDING MALE PINS, RAVEN
4	GA5076923	CONNECTOR, 3 PIN KIT, SPEED SENSOR, INCLUDING FEMALE PINS, RAVEN
5	GA5076927	PIN, 16-20 GAUGE, MALE, SUIT SPEED SENSOR - FLOW METER, RAVEN
6	GA5076928	PIN, 16-20 GAUGE, FEMALE, SUIT SPEED SENSOR - FLOW METER, RAVEN
7	GA5047728	PLUG, 2 PIN, BLACK, FUEL INJECTOR CONNECTOR, IP65K, AMP
-	GA5068945	CONNECTOR, 3 PIN AMP SUPER SEAL WATERPROOF MALE



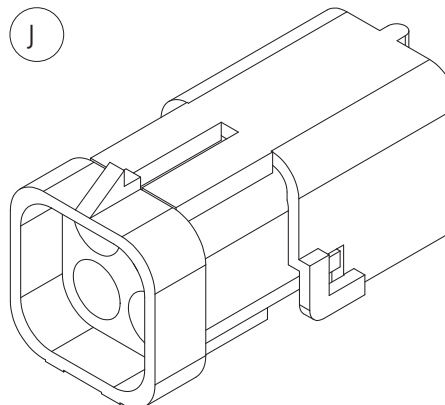
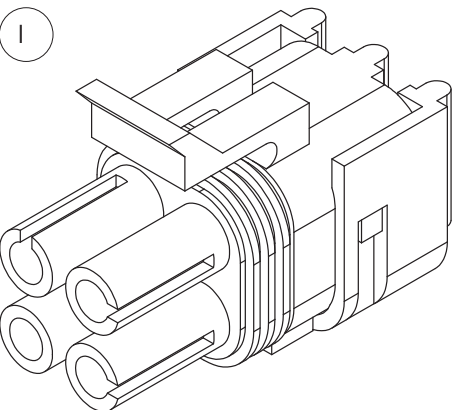
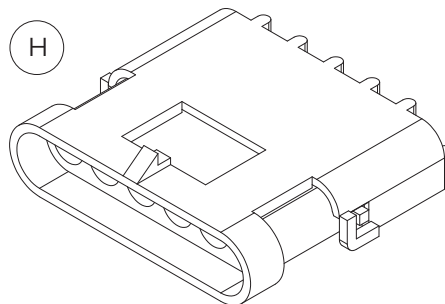
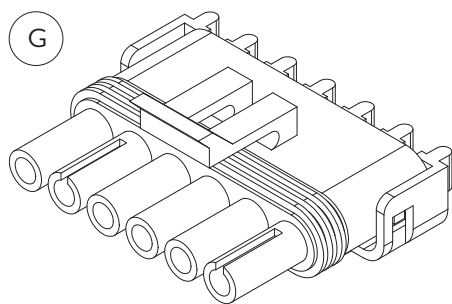
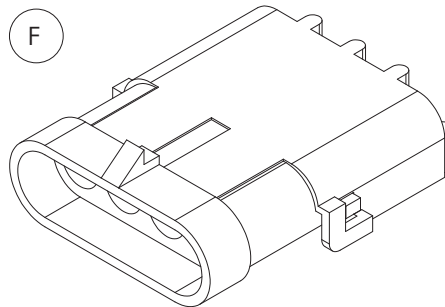
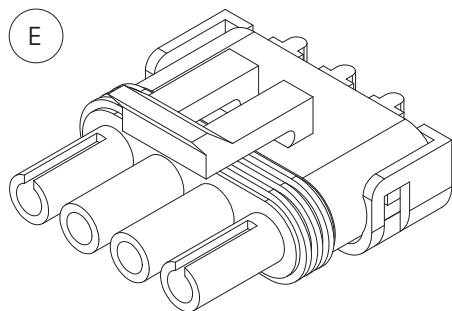
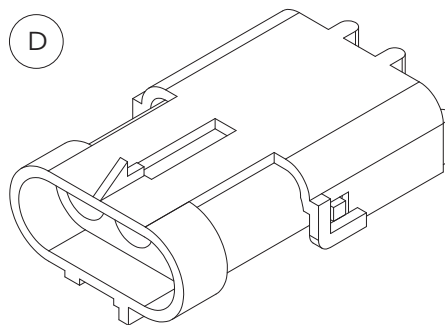
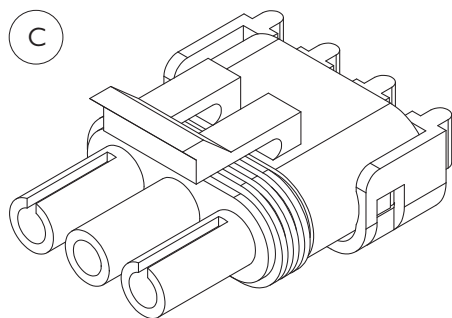
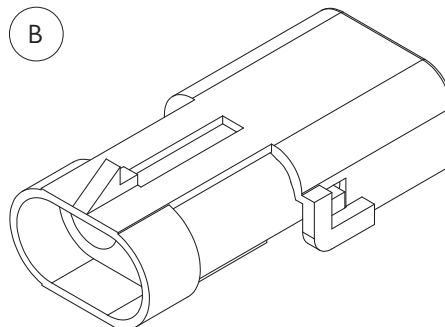
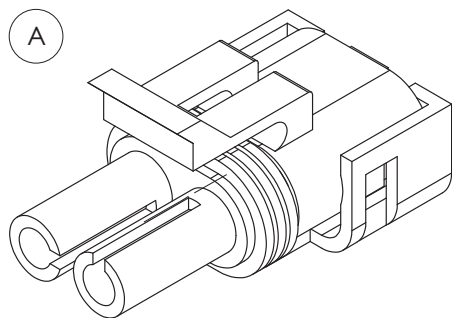
## Electrical Connectors - AMP



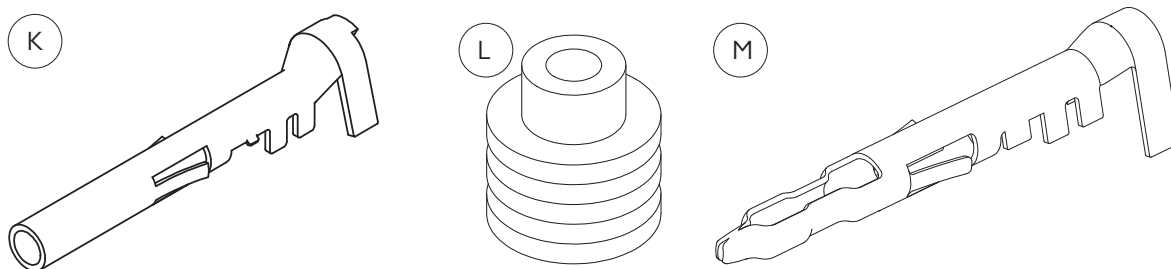
ITEM NO.	PART NUMBER	DESCRIPTION
1	4084001017	CONNECTOR, 16 PIN AMP, SQUARE FLANGE, SUIT MALE PINS, RAVEN
2	4084001018	CONNECTOR, 16 PIN AMP, SUIT FEMALE PINS, RAVEN
3	GA5049175	CONNECTOR, BACKING SHELL, SUIT 16 PIN AMP, RAVEN
4	GA5048905	PIN, 14-18 GAUGE GOLD, MALE, SUIT 16 PIN AMP
5	GA5048900	PIN, 14-18 GAUGE GOLD, FEMALE, SUIT 16 PIN AMP
-	GA5020785	CONNECTOR, 37 PIN AMP, MALE, RAVEN
-	GA5020780	CONNECTOR, 37 PIN AMP, FEMALE
-	GA5020560	CONNECTOR, BACKING SHELL 23, SUIT 37 PIN AMP, STANDARD SIZE
-	GA5020559	CONNECTOR, BACKING SHELL 23, SUIT 37 PIN AMP, LARGE SIZE
-	GA5020561	CONNECTOR DUST CAP, 37 PIN AMP, MALE, RAVEN
-	GA5020575	DUST CAP, 16 PIN AMP CONNECTOR, MALE
-	0630171042-E	DUST CAP, 16 PIN AMP CONNECTOR, FEMALE
-	0630172526-B	DUSTCAP 37 PIN SERIES 23 (4000 SERIES CONNECTOR DUST CAP, 37 PIN AMP, SERIES 23, RAVEN

## Electrical Connectors - Weather Pack

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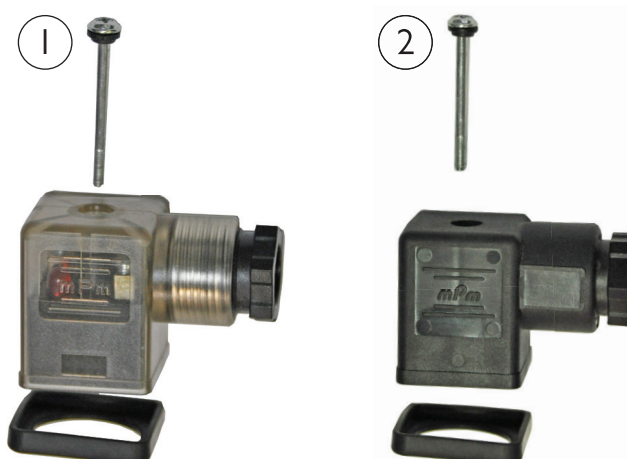


## Electrical Connectors - Weather Pack



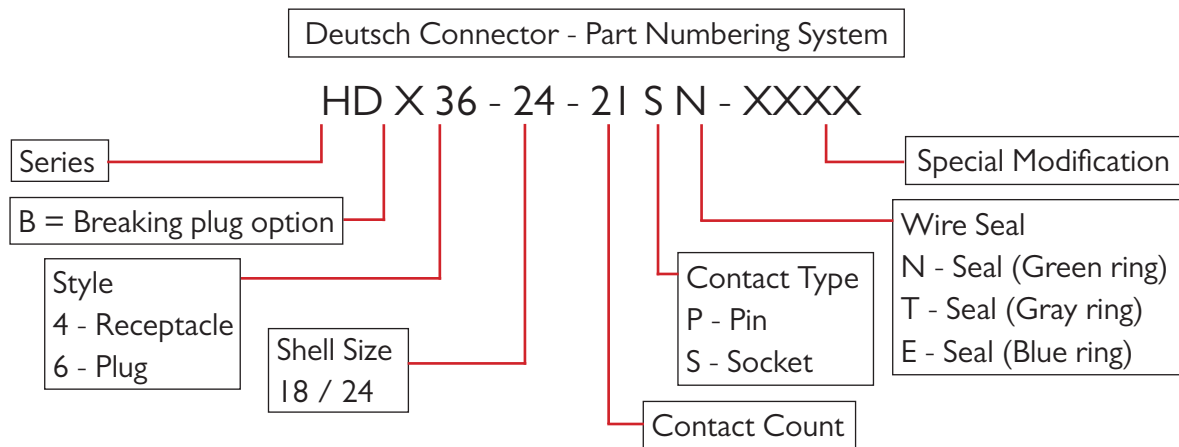
ITEM NO.	PART NUMBER	DESCRIPTION
A	GA5001351	CONNECTOR, MALE, 2 PIN, WEATHER PACK
B	GA5007381	CONNECTOR, 2 PIN, FEMALE, WEATHER PACK
C	GA5002211	CONNECTOR, MALE, 3 PIN, WEATHER PACK
D	GA5048550	CONNECTOR, FEMALE, 3 PIN, WEATHER PACK
E	GA5007385	CONNECTOR, MALE, 4 PIN, WEATHER PACK
F	GA5007383	CONNECTOR, FEMALE, 4 PIN, FLAT, WEATHER PACK
G	GA5004009	CONNECTOR, MALE, 6 PIN, WEATHER PACK
H	GA5048510	CONNECTOR, FEMALE, 6 PIN, WEATHER PACK
I	GA5049000	CONNECTOR, FEMALE, 4 PIN, SQUARE, WEATHER PACK
J	GA5050805	CONNECTOR, MALE, 4 PIN, SQUARE, WEATHER PACK
K	GA5016619	PIN, FEMALE, SEALED, WEATHER PACK, WIRE 1.0 - 2.0MM
L	GA5014857	SEAL, GREEN, WEATHER PACK CONNECTOR, WIRE FROM 2.03 - 2.85MM
M	GA5016617	PIN, MALE, SEALED, WEATHER PACK, WIRE 1.0 - 2.0MM
-	GA5049685	BOOT, WEATHER PACK, SUIT 2 PIN CONNECTOR
-	GA5049690	BOOT, WEATHER PACK, SUIT 3 PIN CONNECTOR

## Electrical Connectors - Din Hirschmann

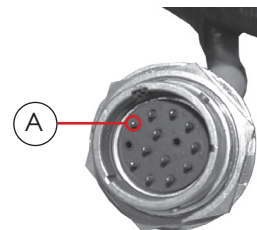


ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5048580	DIN HIRSCHMANN CONNECTOR K4L I2 LED.
2	GA5010039	DIN HIRSCHMANN CONNECTOR STD BLACK SUIT CETOP 3

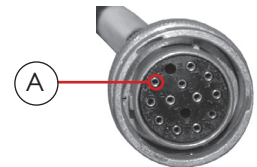
## Electrical Connectors - Deutsch



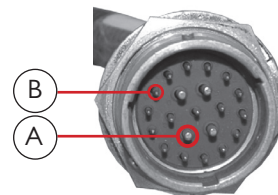
ITEM	PART NUMBER	DESCRIPTION
-	GA5002671	HD34-18-14PN CONNECTOR (14 PIN)
A	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16



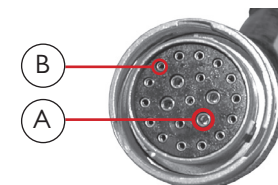
ITEM	PART NUMBER	DESCRIPTION
-	GA5002663	HD36-18-14SN CONNECTOR (14 SOCKET)
A	GA5061230	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 16



ITEM	PART NUMBER	DESCRIPTION
-	GA5002675	HD34-24-21PN CONNECTOR (21 PIN)
A	GA5061260	PIN, MALE, SOLID, NICKEL, NUMBER 12
B	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16

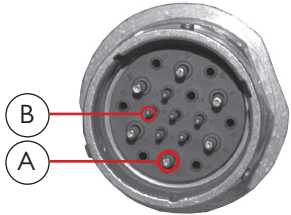


ITEM	PART NUMBER	DESCRIPTION
-	GA5002655	HD36-24-21SN CONNECTOR (21 SOCKET)
A	GA5061270	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 12
B	GA5061230	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 16

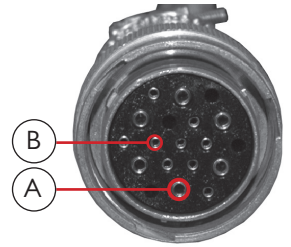


# Electrical Connectors - Deutsch

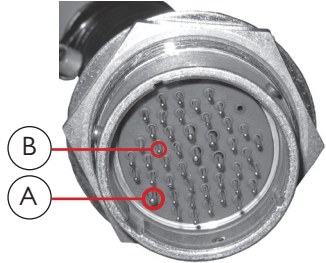
ITEM	PART NUMBER	DESCRIPTION
-	GA5021315	HD34-24-19PN CONNECTOR (19 PIN)
A	GA5061260	PIN, MALE, SOLID, NICKEL, NUMBER 12
B	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16



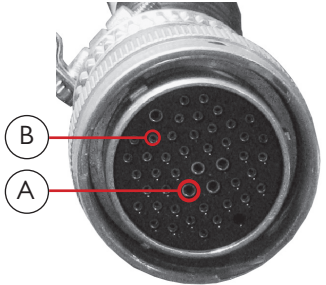
ITEM	PART NUMBER	DESCRIPTION
-	GA5021310	HD36-24-19SN-059 CONNECTOR (19 SOCKET)
A	GA5061270	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 12
B	GA5061230	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 16



ITEM	PART NUMBER	DESCRIPTION
-	GA5062635	HD34-24-47-PE CONNECTOR (47 PIN)
A	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16
B	GA5061200	PIN, MALE, SOLID, NICKEL, NUMBER 20



ITEM	PART NUMBER	DESCRIPTION
-	GA5062640	HD36-24-47-SE-059 CONNECTOR (47 SOCKET)
A	GA5061230	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 16
B	GA5061210	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 20



## Electrical Connectors - Deutsch

PART NUMBER	DESCRIPTION
GA5020920	PLUG FOR SIZE 24 CONNECTOR WITH EXTERNAL THREAD ON PLUG
GA5020910	PLUG FOR SIZE 18 CONNECTOR WITH EXTERNAL THREAD ON PLUG



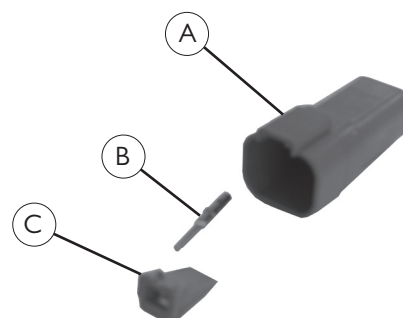
PART NUMBER	DESCRIPTION
GA5020925	PLUG FOR SIZE 24 CONNECTOR WITH EXTERNAL THREAD ON CONNECTOR
GA5020915	PLUG FOR SIZE 18 CONNECTOR WITH EXTERNAL THREAD ON CONNECTOR



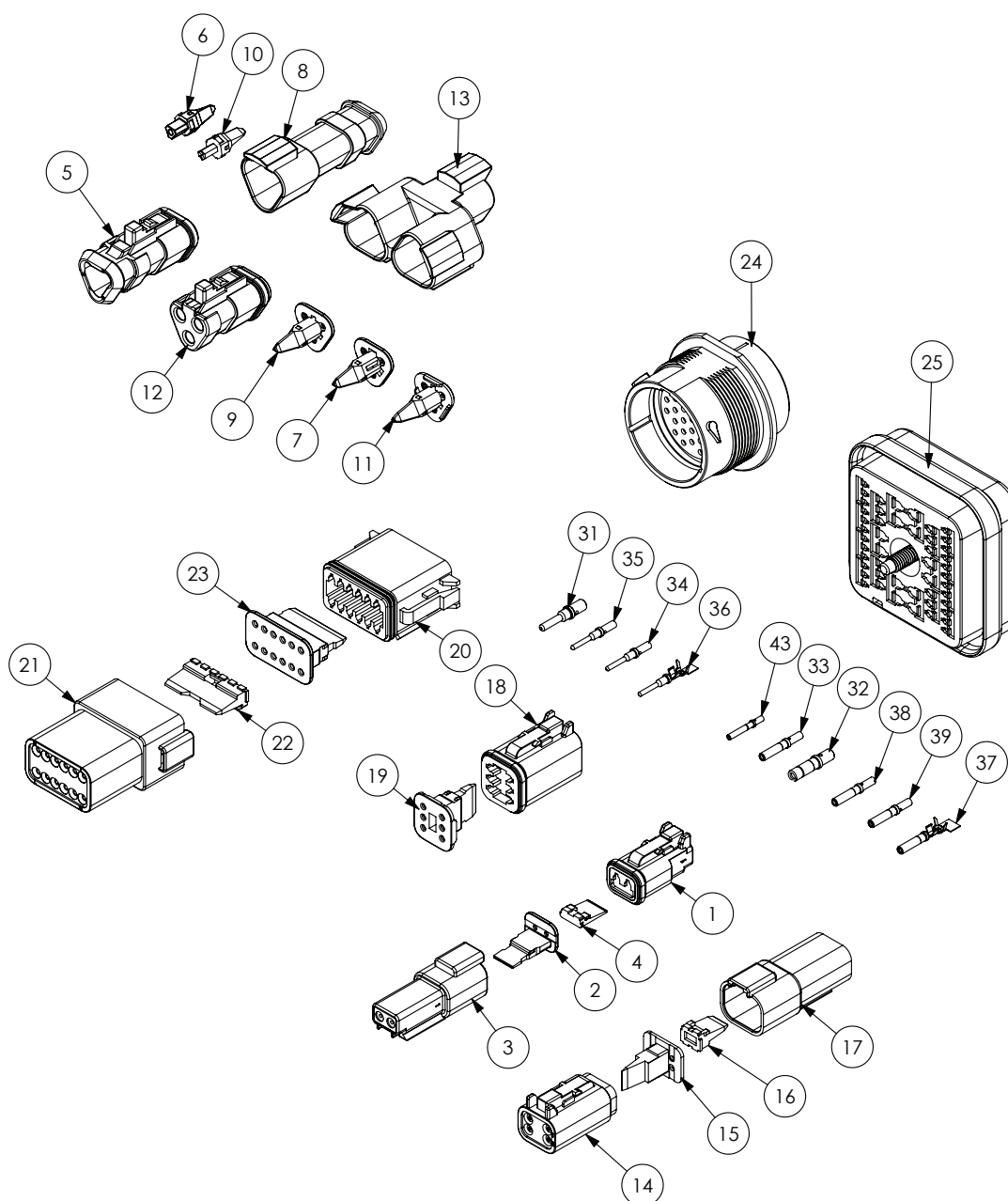
ITEM NO.	PART NUMBER	DESCRIPTION
A	GA5012399	CONNECTOR LOCK NUT SUIT 24 SHELL
	GA5009887	CONNECTOR LOCK NUT SUIT 18 SHELL
B	GA5017621	CONNECTOR LOCK WASHER SUIT 24 SHELL
	GA5009893	CONNECTOR LOCK WASHER SUIT 18 SHELL



ITEM NO.	PART NUMBER	DESCRIPTION
A	GA5013783	HOUSING (4 PIN)
B	GA5061240	PIN
C	GA5050765	LOCK WEDGE



## Electrical Connectors - Deutsch



ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5052820	PLUG, 2 WAY, SOCKET, DT SERIES
2	GA5052825	WEDGE LOCK, 2 WAY, SOCKETS, DT SERIES
3	GA5052830	RECEPTACLE, 2 WAY, PINS, DT SERIES
4	GA5052835	WEDGE LOCK, 2 WAY, DT SERIES
5	GA5011831	PLUG, 3 WAY SOCKETS, SHRINK BOOT ADAPTER
6	GA5017719	WEDGE LOCK, BLUE, 3 PIN, SUIT TERMINATOR
7	GA5017721	WEDGE LOCK, BLUE, 3 SOCKET
8	GA5050740	RECEPTICAL, 3 PIN, SHRINK BOOT
9	GA5050750	WEDGE LOCK, ORANGE, 3 SOCKET

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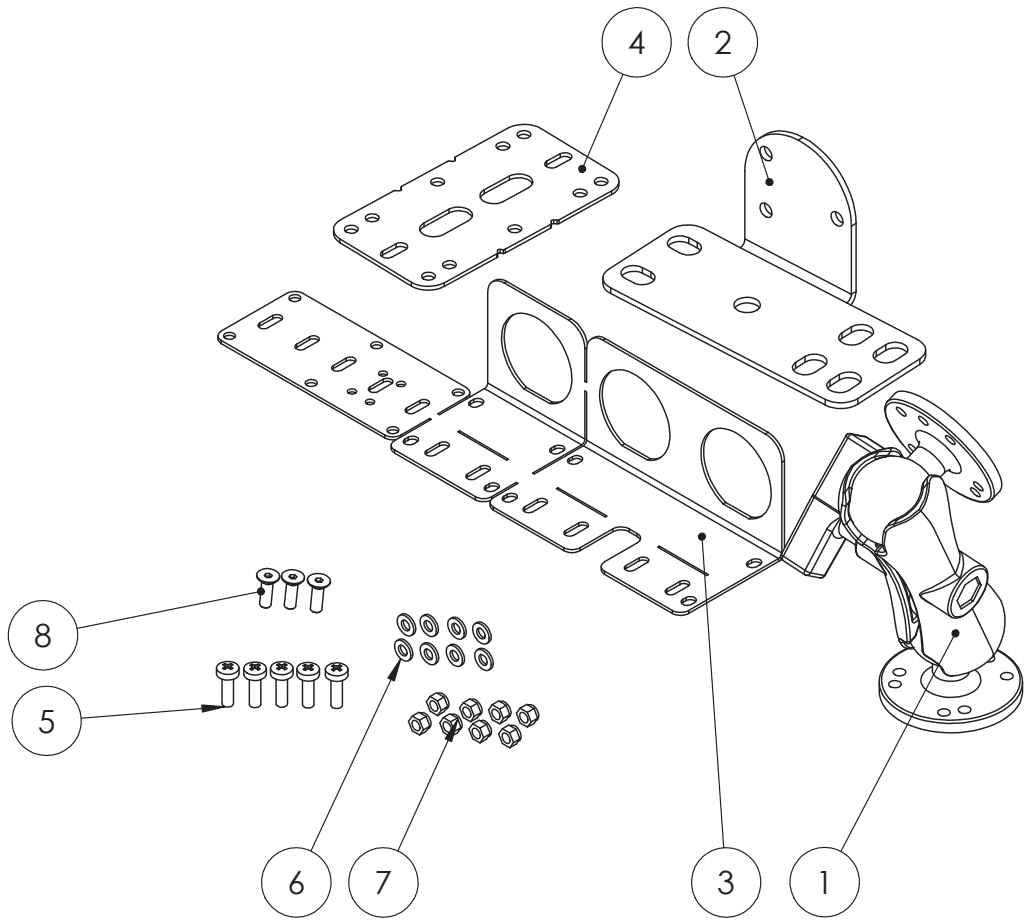


## Electrical Connectors - Deutsch

ITEM NO.	PART NUMBER	DESCRIPTION
10	GA5050760	WEDGE LOCK, GREEN, 3 PIN
11	GA5050761	WEDGE LOCK, GREEN, 3 SOCKET
12	GA5054350	PLUG, GREY, 120 OHM RESISTOR TERMINATOR
13	GA5054365	RECEPTACLE, 3 WAY 3 PIN, Y SPLITTER
14	GA5050840	PLUG, 4 WAY SOCKET, DT SERIES
15	GA5050845	WEDGE LOCK, ORANGE, 4 WAY SOCKETS
16	GA5050765	WEDGE LOCK, GREEN, 4 WAY PINS
17	GA5013783	RECEPTACLE, 4 WAY, PINS, DT SERIES
18	GA5050960	PLUG, 6 WAY SOCKET, DT SERIES
19	GA5050965	WEDGE LOCK, ORANGE, 6 WAY SOCKETS, DT SERIES
20	GA5061780	PLUG, 12 WAY SOCKETS, DT SERIES
21	GA5061785	RECEPTACLE, 12 WAY SUIT PINS, DT SERIES
22	GA5070590	WEDGE LOCK, GREEN, 12 WAY SUIT PINS
23	GA5070595	WEDGE LOCK, GREEN, 12 WAY SOCKETS
24	GA5061790	RECEPTACLE, 31 PIN, HPD SERIES
25	GA5060440	PLUG, 48 PIN SUITS PINS, DRB SERIES
26	GA5060445	WEDGE LOCK, 48 WAY SUITS PINS, DRB SERIES
27	GA5060450	FLANGE CONNECTOR, 48 WAY SUITS DRB SERIES
28	GA5060455	WEDGE LOCK, 48 WAY SUIT, SOCKETS, DRB SERIES
29	GA5060460	PLUG, 48 PIN SUITS SOCKETS, DRB SERIES
30	GA5061170	RUBBER BOOT, SUIT 48 PIN DRB SERIES
31	GA5061260	PIN, MALE, SOLID, NICKEL, NUMBER 12
32	GA5061270	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 12
33	GA5053235	SOCKET, FEMALE, NICKEL, NUMBER 14, GREEN BAND
34	GA5061220	PIN, MALE, GOLD, NUMBER 16
35	GA5061240	PIN, MALE, SOLID, NICKEL, NUMBER 16, GREEN BAND, AWG 14
36	GA5075255	PIN, MALE, NICKEL, CRIMP STYLE, NUMBER 16
37	GA3000022	SOCKET, FEMALE, NICKEL, CRIMP STYLE, NUMBER 16
38	GA5061225	SOCKET, FEMALE, SOLID GOLD, NUMBER 16
39	GA5061230	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 16
40	GA5061235	SOCKET, SOLID GOLD, NUMBER 16, 16-20AWG
41	GA5061200	PIN, MALE, SOLID, NICKEL, NUMBER 20
42	GA5061205	PIN, MALE, SOLID, GOLD, NUMBER 20
43	GA5061210	SOCKET, FEMALE, SOLID, NICKEL, NUMBER 20
44	GA5061215	SOCKET, FEMALE, SOLID, GOLD, NUMBER 20
45	GA5052840	SEALING PLUG, WHITE, SIZE 12 - 16

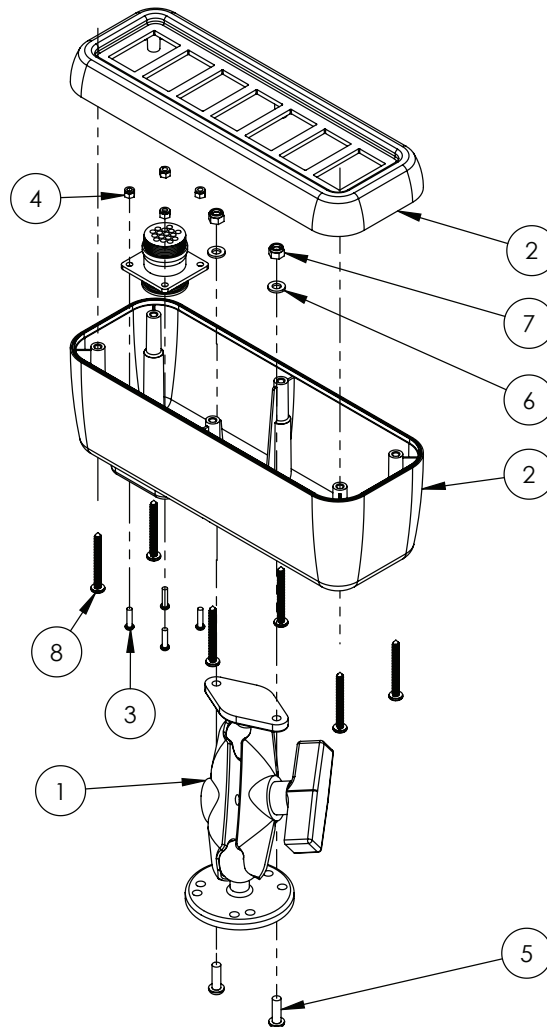


# Console Mounting Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4903666	COMPLETE CONSOLE MOUNTING KIT	-
1	GA5020825	RAM MOUNT, UNIVERSAL, ADJUSTABLE KIT	1
2	GA4522930	TRACTOR CONTROLLER RAM MOUNT BRACKET	1
3	GA4523475	TRACTOR HARNESS SUPPORT PLATE SUIT PRAIRIE PRO	1
4	GA4523935	MOUNTING PLATE, CONTROL BOX DUAL PLATE AND FENCE LINE BOX	1
5	GA5003977	BOLT PAN HEAD M5 X 16 SS A2-70	5
6	GA5003983	WASHER 5MM FLAT SS	8
7	GA5003975	NUT M5 NYLOC SS	8
8	GA5051230	CSCS M5 X 16 SS A2-70	3

## Control Boxes



### SWITCH PARTS

PART NUMBER	DESCRIPTION
GA5012671	SWITCH, ROCKER, ON / OFF, TWIN GLOBE BLUE LENS
GA5012673	SWITCH, ROCKER, ON / OFF / ON, TWIN BULB BACK LIGHT, BLUE LENSES
GA5060410	SWITCH, ROCKER, MOMENTARY, ON / OFF / ON, 2 POLE, NO BULB OR ACTUATOR
GA5060405	ACTUATOR, ROCKER SWITCH, NO LENS
GA5006421	CARLING SWITCH BLANK HOLE PANEL PLUG (BLACK)
GA5053525	SWITCH EVO STEERING CALIBRATE

NOTE: See Chapter 17 'Decals' for switch box decals.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4903710	COMPLETE SWITCH BOX A	-
-	GA4903715	COMPLETE SWITCH BOX B	-
-	GA4903720	COMPLETE SWITCH BOX C	-
1	GA5068930	RAM MOUNT	1
2	GA5075100	SWITCH BOX BARE 7 SWITCHES TOP SWITCH BOX BARE 7 SWITCHES BASE	1

Continued over page

## Control Boxes

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	GA5003083	SCREW M3 X 12 PAN HEAD MACHINE	4
4	GA5049465	NUT M3 NYLOC SS	4
5	GA5003977	BOLT M5 X 16 PAN HEAD SS	2
6	GA5003983	WASHER 5MM FLAT SS	2
7	GA5003975	NUT M5 NYLOC SS	2
8	GA5075105	SCREW PHILLIPS HEAD 8G 1 1/2" PAN HEAD SELF TAPPING SS	6
9	GA5060242	LOOM HYDRAULIC / BASE SPRAYER SUIT 7 SWITCH BOX	1

## Electrical Harnesses

### CHASSIS

PART NUMBER	DESCRIPTION
GA5060247	BASE LOOM
GA5063585	LOOM 4M EXTENSION FOR PRAIRIE PRO SWITCH BOX HYDRAULIC
GA5063580	LOOM 4M EXTENSION FOR PRAIRIE PRO SWITCH BASE
GA3000016	HARNESS, QUAD SPLITTER, SUIT NIGHT PRO POWER SUPPLY
GA5060059	LOOM, BOOM RECIRC BYPASS MODULE
GA5060248	LOOM, CABIN SUIT SWITCH BOX A+B
GA5060249	LOOM, SUIT SWITCH BOX C PRAIRIE
GA5013371	LOOM PRAIRIE ADVANCE CABINET
GA5063602	LOOM HIGH CURRENT SOLENOID TO SUIT RAPID FIRE COMPRESSOR
GA5063601	LOOM HIGH CURRENT TO RH POD
GA5076188	ELECTRICAL HARNESS, EXTENSION, ACCUBOOM, 6" CAN BUS WITH TEE, RAVEN
GA5063600	LOOM HIGH CURRENT TRACTOR END SUIT TRAILING UNIT
GA5076111	ELECTRICAL HARNESS, SPEED SENSOR EXTENSION 12', RAVEN
GA5076168	ELECTRICAL HARNESS, SPEED SENSOR EXTENSION, 29', RAVEN
GA5060243	ELECTRICAL HARNESS, HYDRAULIC AND STEERING WITH TWO PIN SPOOL PLUG
GA5060048	ELECTRICAL HARNESS, CENTER LOCK VALVE CONNECTION
GA5075858	SENSOR, DRIVE WHEEL SPEED, KIT 4 POLE WHEEL DRIVE WITH 7 1/2' CABLE, RAVEN

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## Electrical Harnesses

### RAVEN 4400 SYSTEM

PART NUMBER	DESCRIPTION
GA5076205	ELECTRICAL HARNESS, CHASSIS, SCS 4400, 41', RAVEN
GA5076204	ELECTRICAL HARNESS, CONSOLE SCS 4400 13.5', RAVEN
GA5076176	CABLE 12' EXTENSION 4400
GA5076177	CABLE 24' EXTENSION 4400
GA5063525	EZI TEST LOOM SUIT 4000 SERIES
GA3000027	ELECTRICAL HARNESS, SPRAY RAVEN 4400 WITH FCV
GA5076108	ELECTRICAL HARNESS, FLOWMETER EXTENSION, 6', RAVEN
GA5076109	ELECTRICAL HARNESS, FLOWMETER EXTENSION, 12', RAVEN
GA5060250	LOOM 4400 RAVEN SINGLE BOOM LINE ADAPTER, 1 TO 7 SECTION, NON 3TS
GA5060251	LOOM 4400 RAVEN DUAL PRODUCT BOOM LINE ADAPTER, 1 TO 7 SECTION, NON 3TS
GA5013727	ELECTRICAL HARNESS, BOOM SECTION CONTROL WITH 3TS, SUIT RAVEN

### ISOBUS SYSTEM

PART NUMBER	DESCRIPTION
GA5071315	ELECTRICAL HARNESS, ISO BUS, CABIN TO DRAWBAR, SUIT NON ISO TRACTOR, RAVEN
GA3000031	ELECTRICAL HARNESS, RAVEN ISO TO CAN ACTIVE TERMINATOR, RAVEN
GA3000032	ELECTRICAL HARNESS, FOOT SWITCH ASSEMBLY, ISO BUS, RAVEN
GA3000033	ELECTRICAL HARNESS, FOOT SWITCH EXTENSION, ISO BUS, RAVEN
GA5071390	ELECTRICAL HARNESS, ISO HITCH CABLE TO SUIT RAVEN ISO ECU 14'
GA5076953	PRESSURE TRANSDUCER, 0-250PSI, SEALED, RAVEN
GA3000030	TERMINATOR, CAN, ACTIVE, SUIT ISO BUS, RAVEN
GA3000043	ELECTRICAL HARNESS, 4400 CHASSIS TO ISO BUS NODE, RAVEN
GA5071380	NODE, ECU ISO BUS CAN, PRODUCT CONTROLLER, RAVEN

### RCM SYSTEM

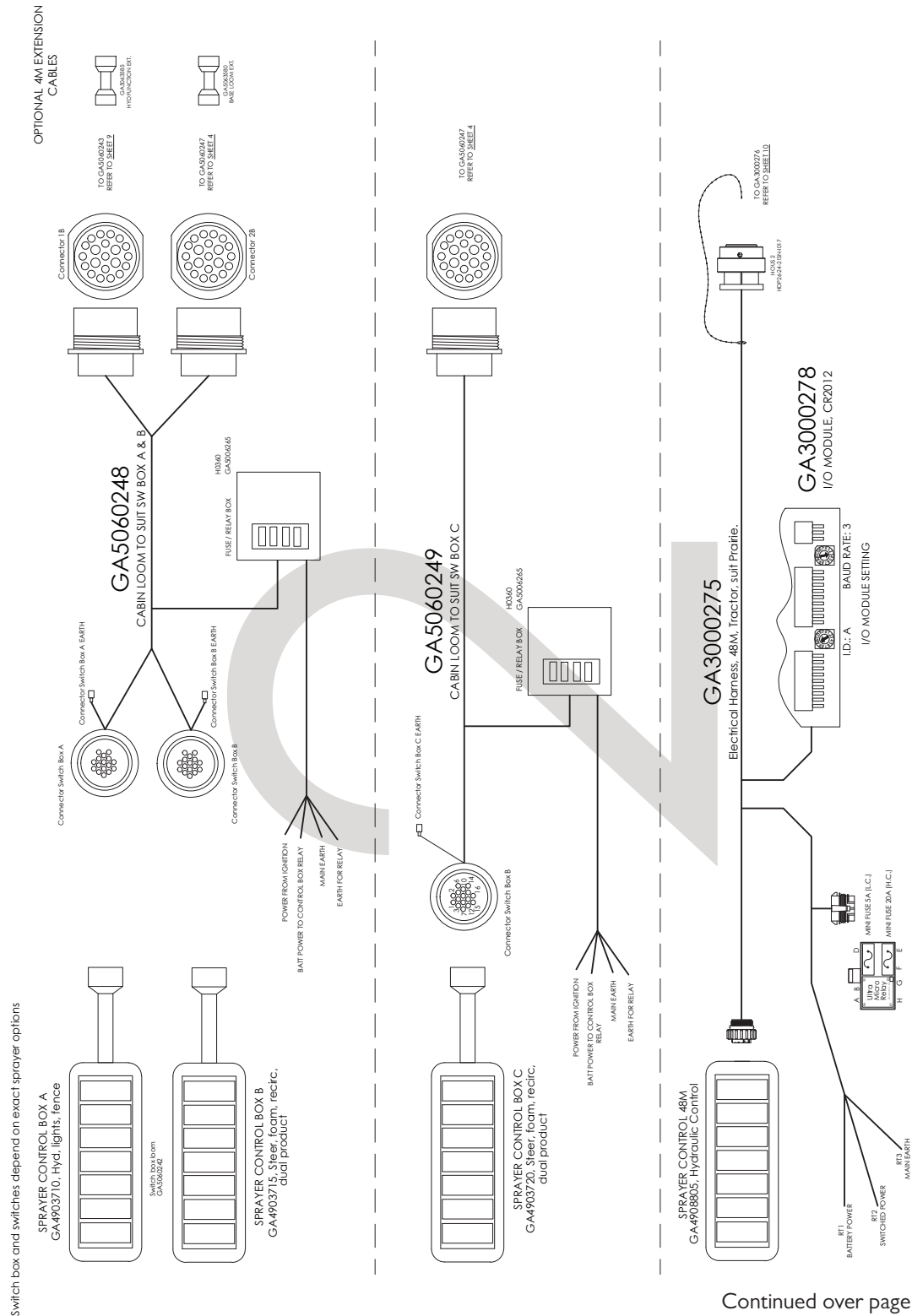
PART NUMBER	DESCRIPTION
GA3000254	ELECTRICAL HARNESS, RCM
GA3000258	ELECTRICAL HARNESS, RCM, 16 SECTION 3 TIER, BOOM CENTER
GA3000273	ELECTRICAL HARNESS, RCM, 16 SECTION AIR SOLENOID BANK
GA3000265	FLOWMETER, RFM60P HIGH PULSE, DEUTSCH
GA3000199	PRESSURE TRANSDUCER, 0-250PSI, 1-5V, DEUTSCH, SEALED
GA3000202	ISO NODE, RATE CONTROL MODULE, RCM

### 48M BOOM

PART NUMBER	DESCRIPTION
GA4908805	SWITCH BOX 48M
GA3000275	ELECTRICAL HARNESS, 48M, TRACTOR
GA3000276	ELECTRICAL HARNESS, 48M, HYDRAULICS CHASSIS
GA3000277	ELECTRICAL HARNESS, 48M, CENTER HYDRAULICS
GA3000272	PLC, PROGRAMMABLE LOGIC CONTROLLER, SUIT 48M BOOM ON PRAIRIE PRO
GA3000278	I/O MODULE, 16 CHANNEL

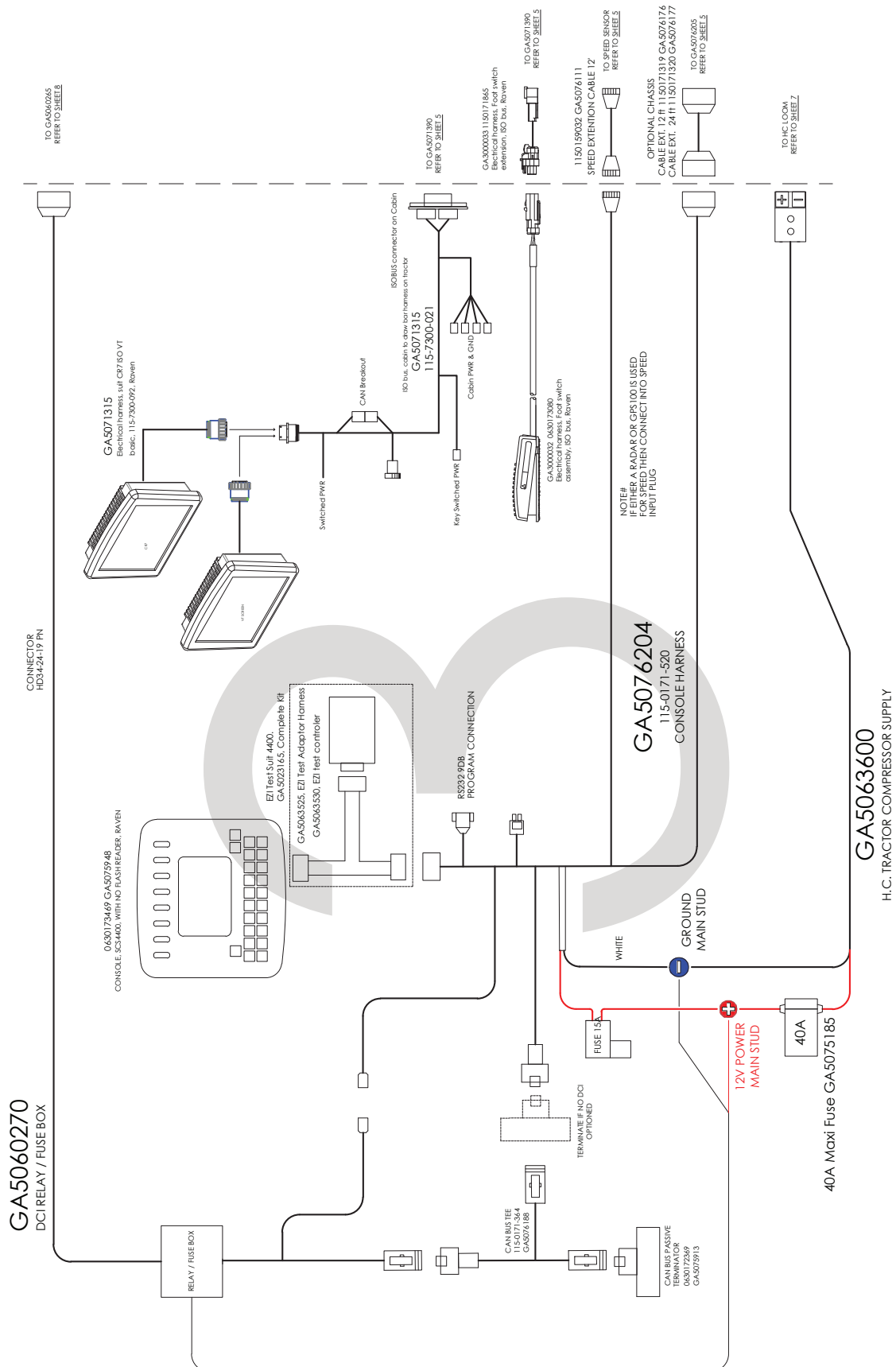
# SCHEMATICS

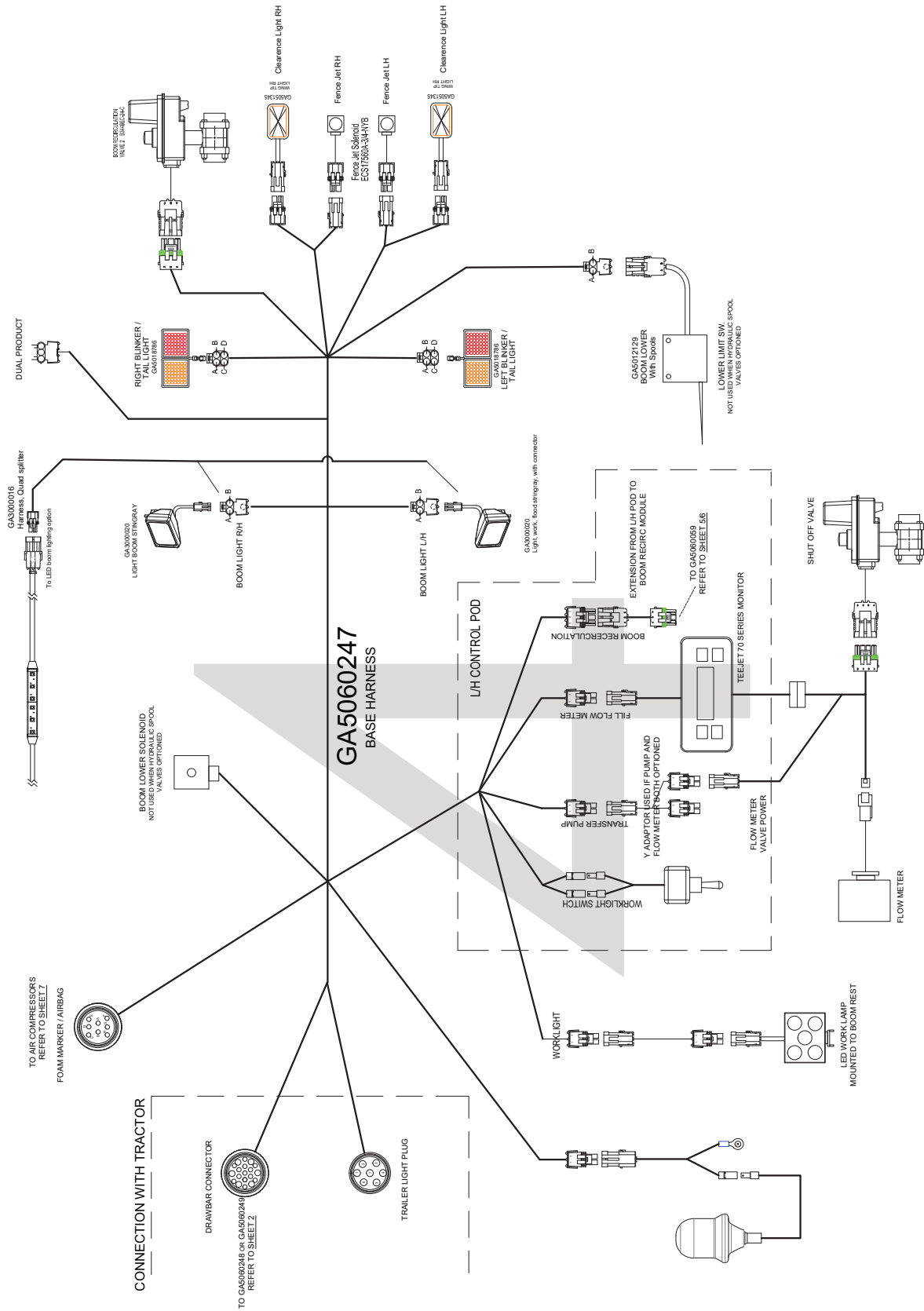
# Electrical Layout - Tractor Controller



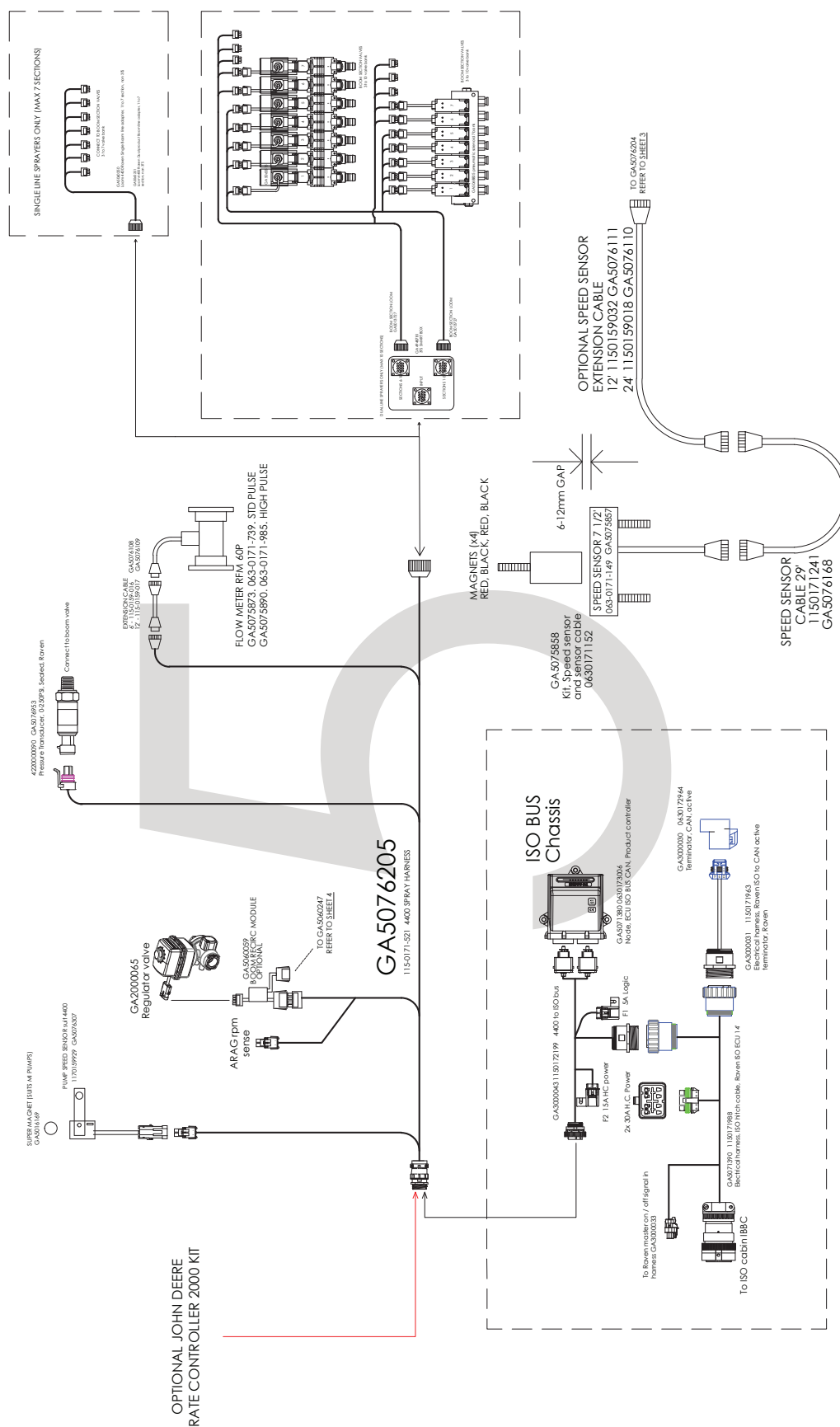
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## Electrical Layout - Tractor Spray

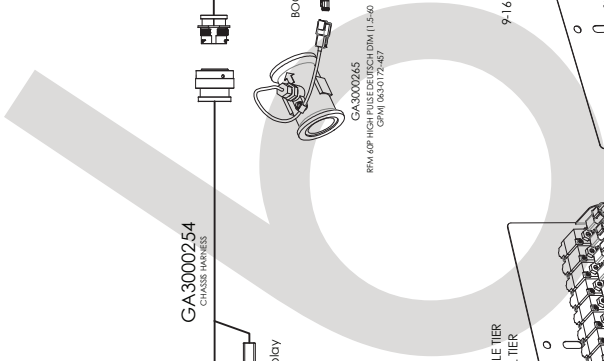




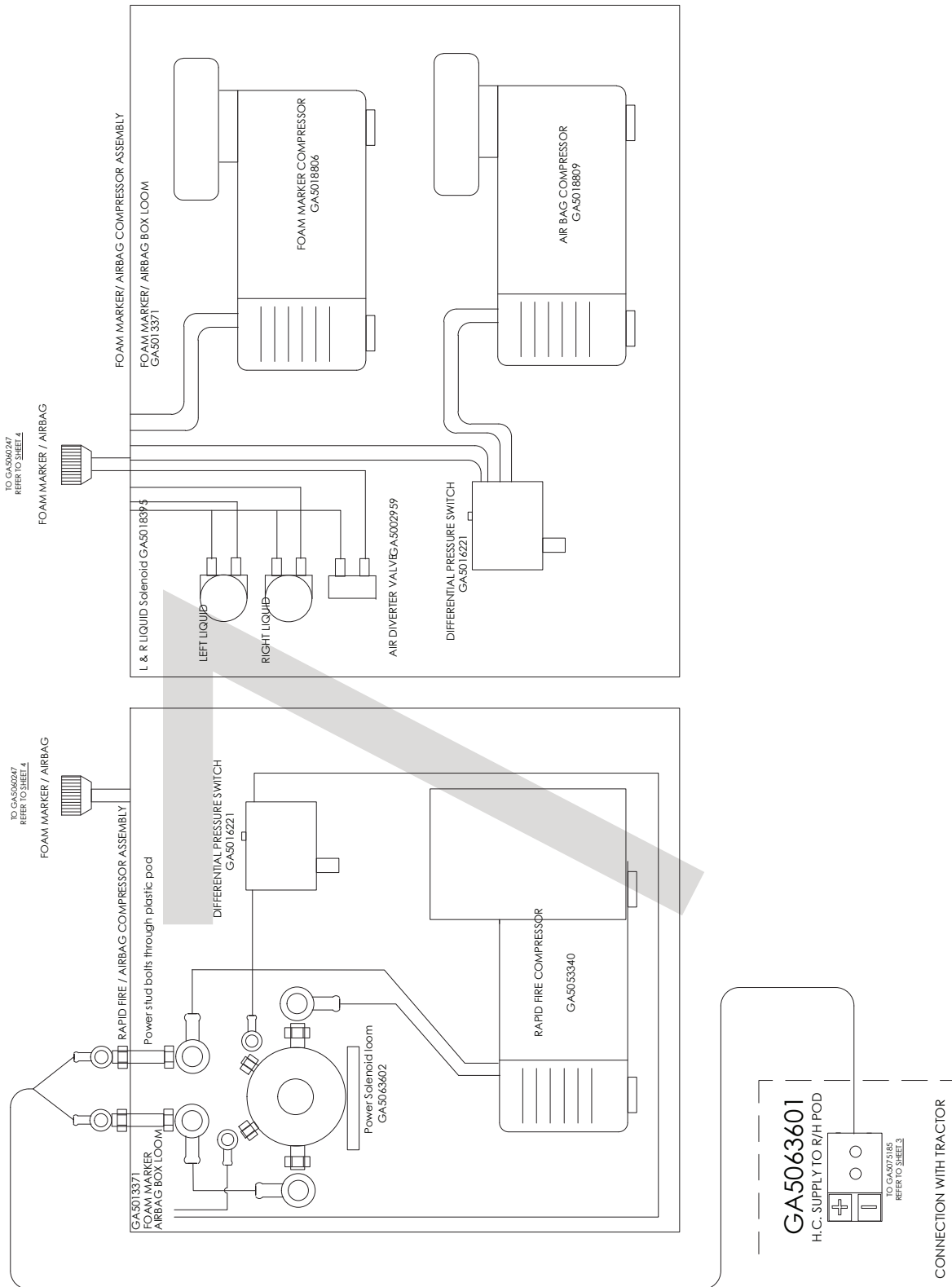
## Electrical Layout - ISOBUS / 4400



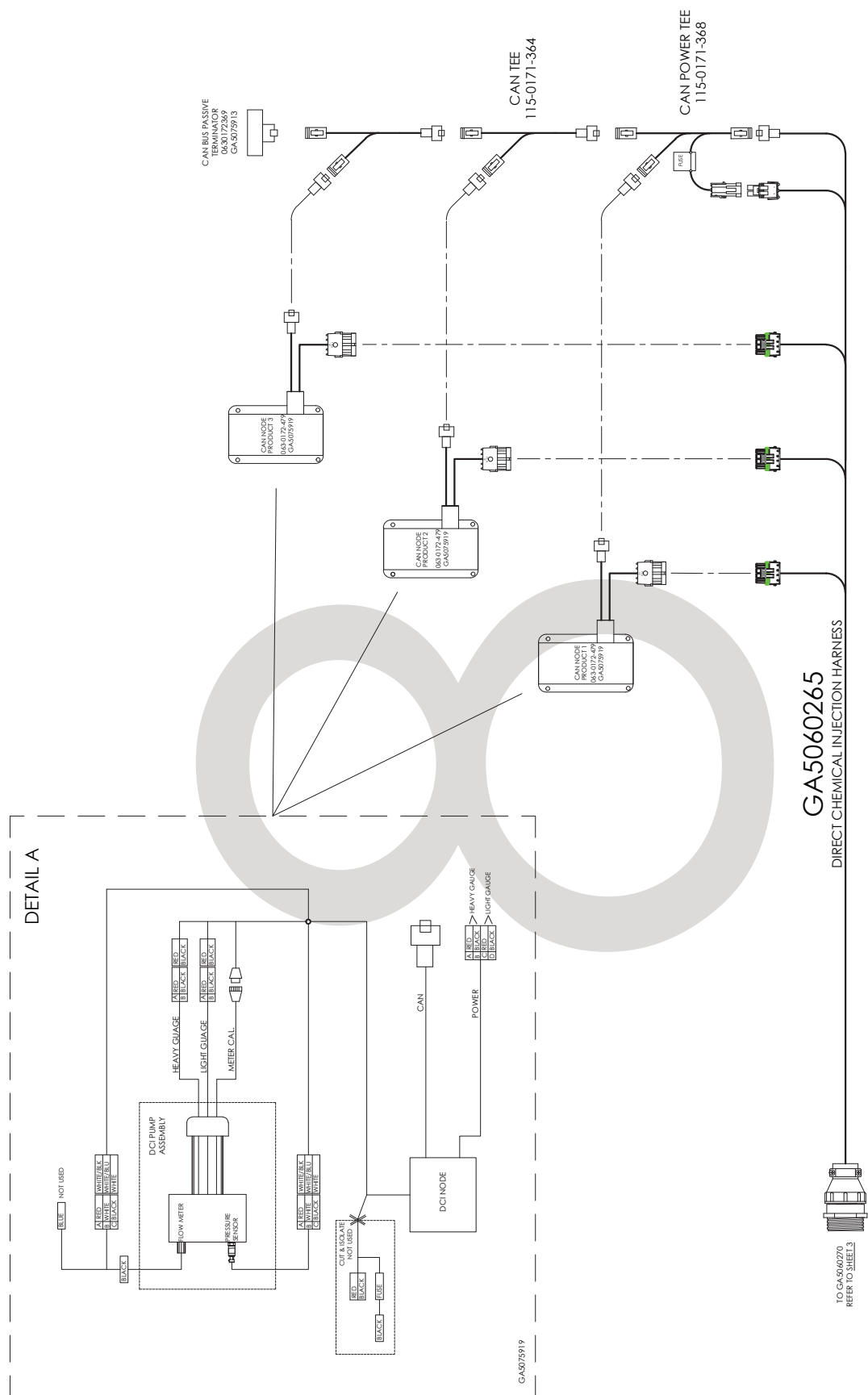




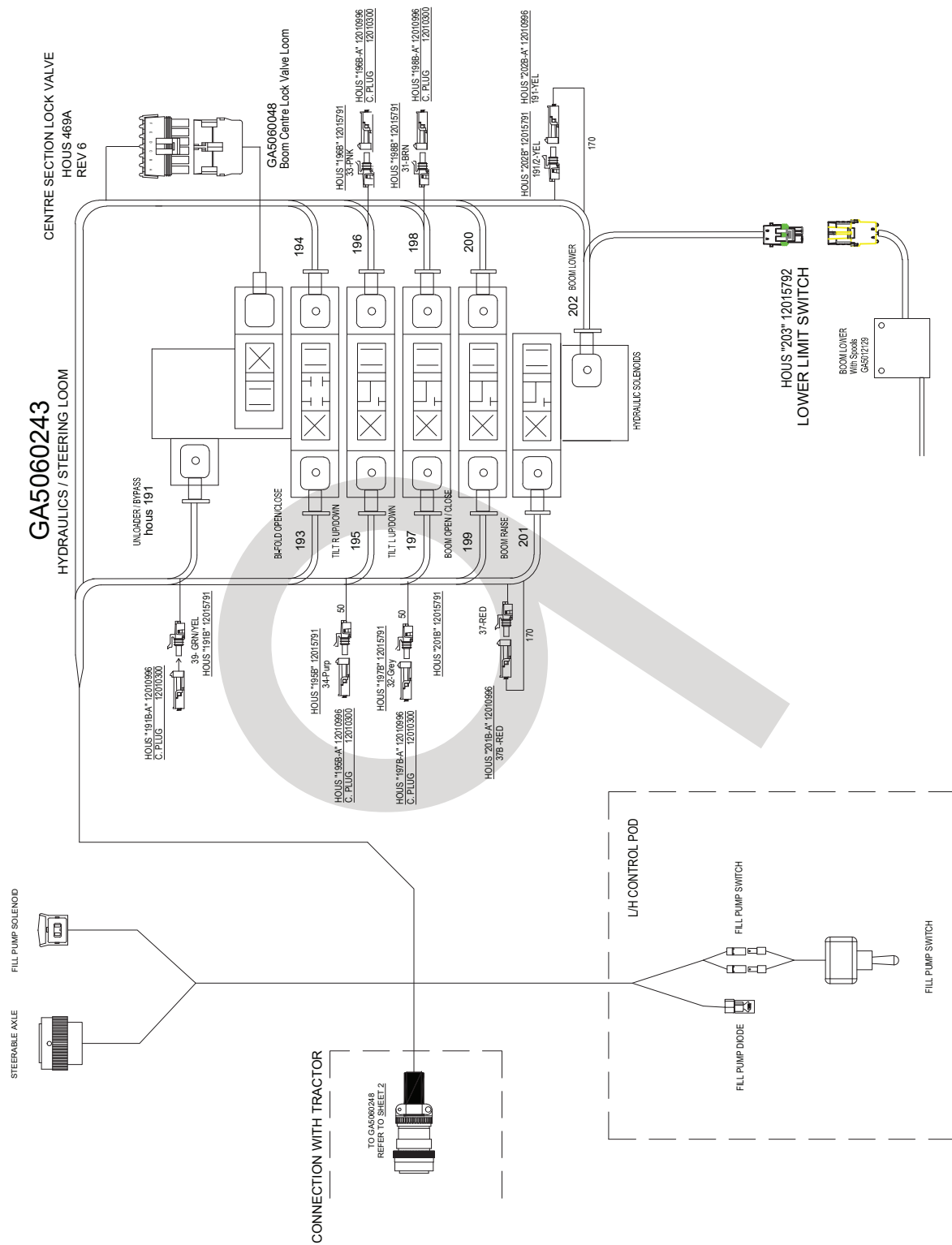
# Electrical Layout - Air Compressor



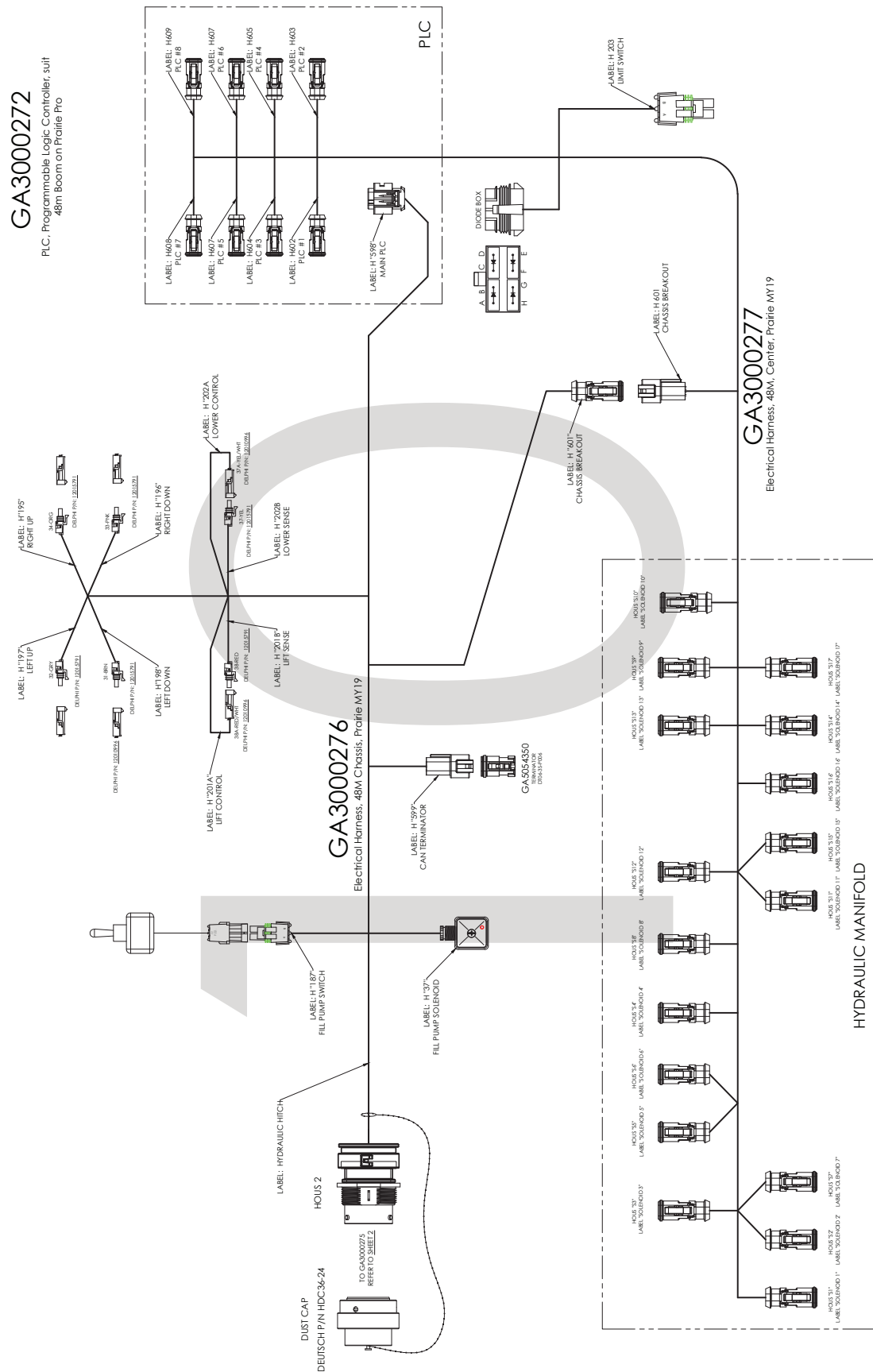
# Electrical Layout - DCI



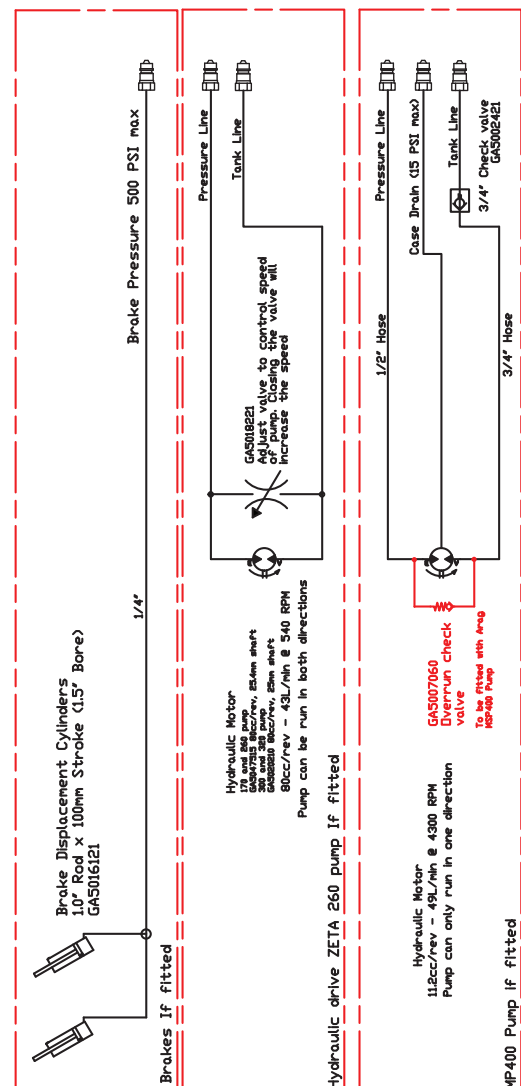
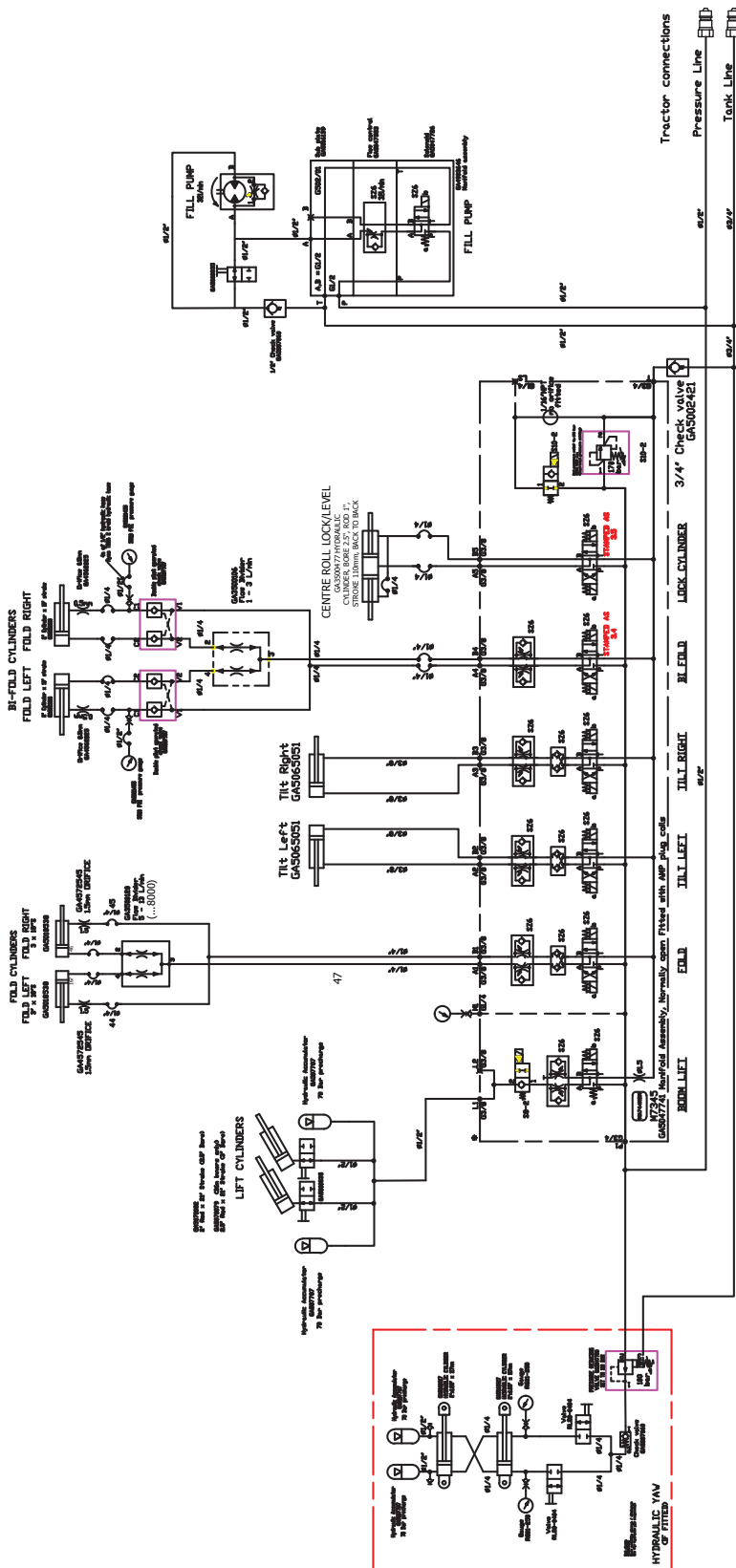
# Electrical Layout - Hydraulic Control



## Electrical Layout - 48m Boom



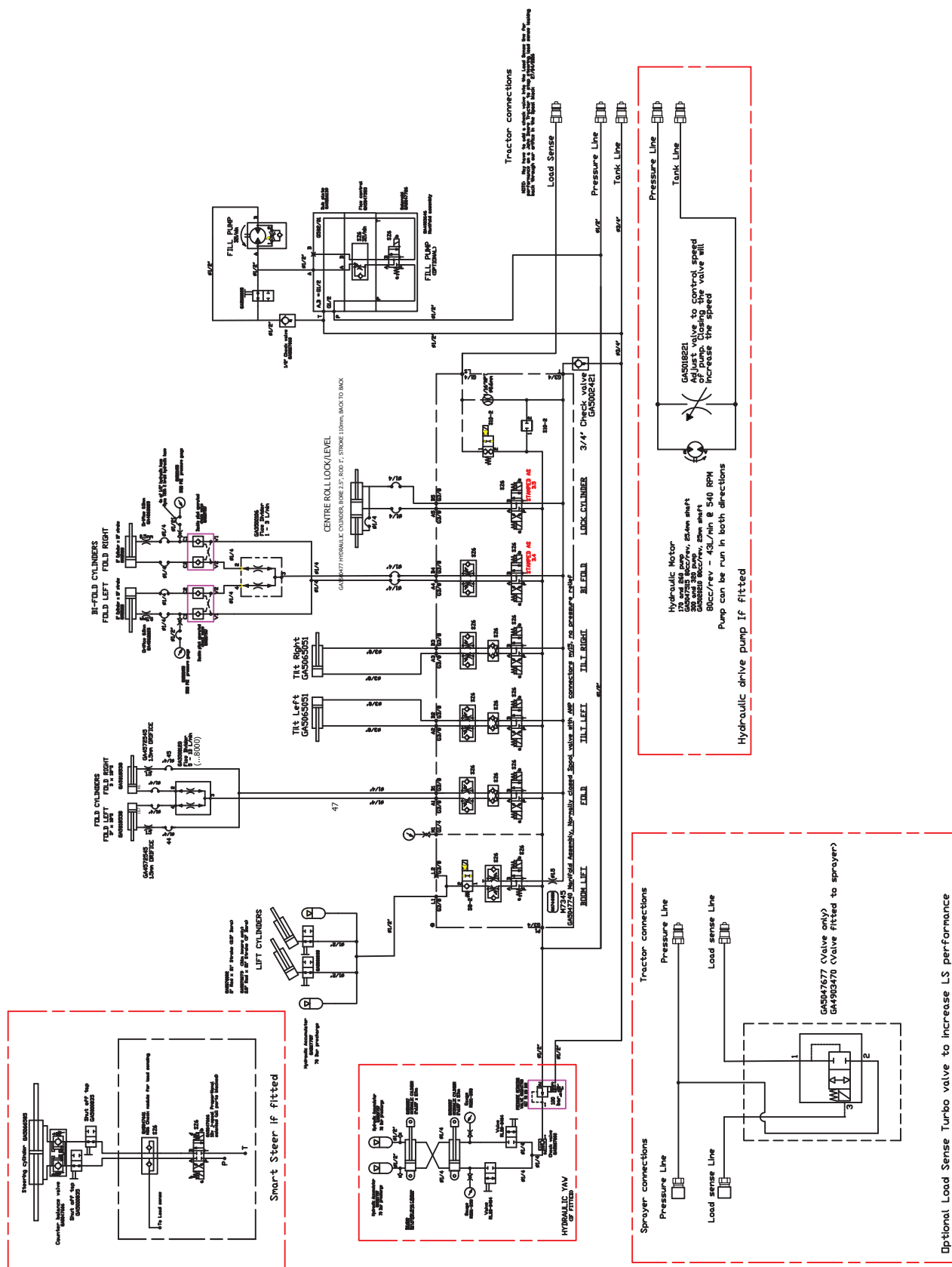
# Hydraulics - Spool Valves Open Centre



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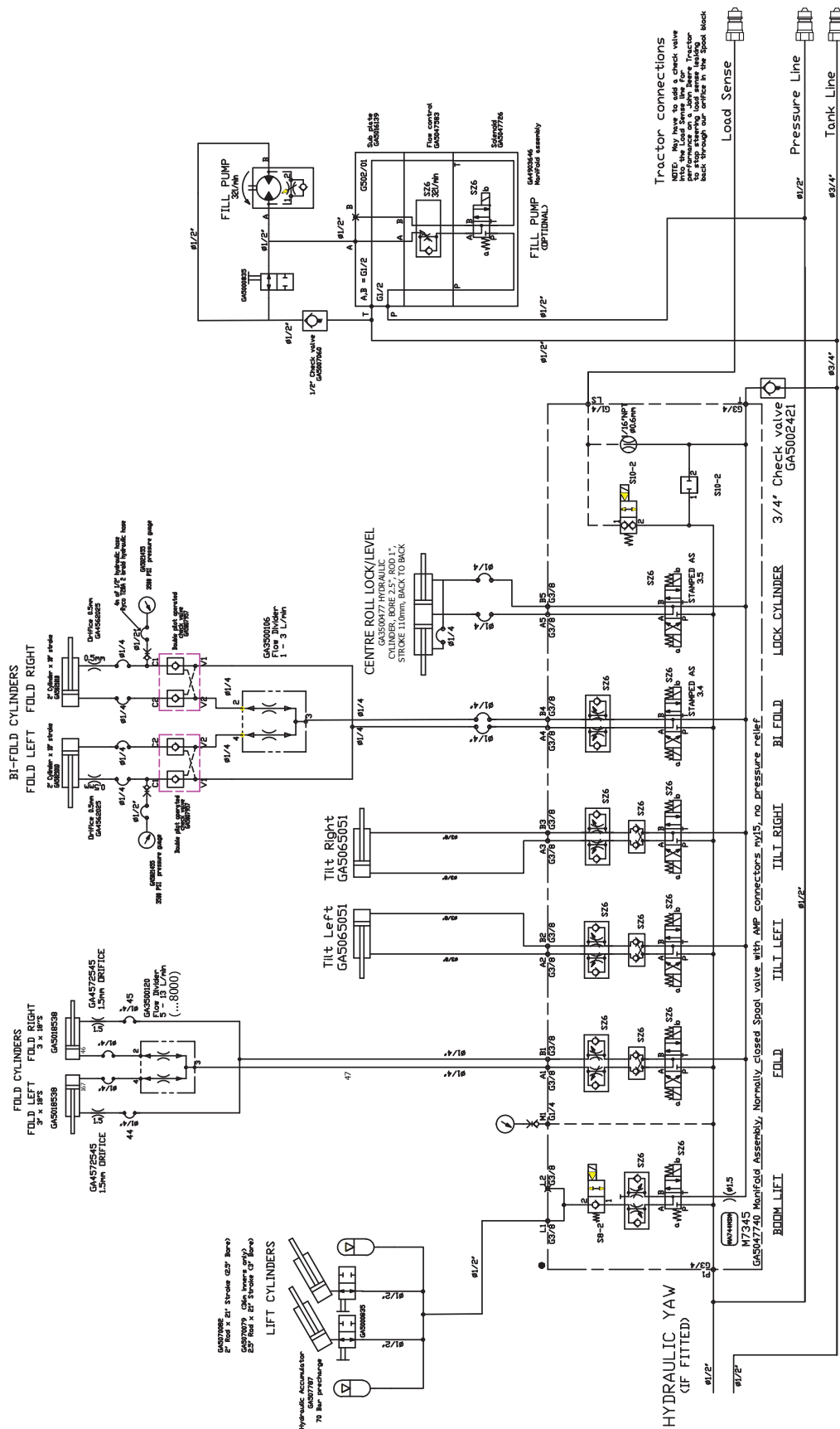
## Hydraulics - Spool Valves Closed Centre



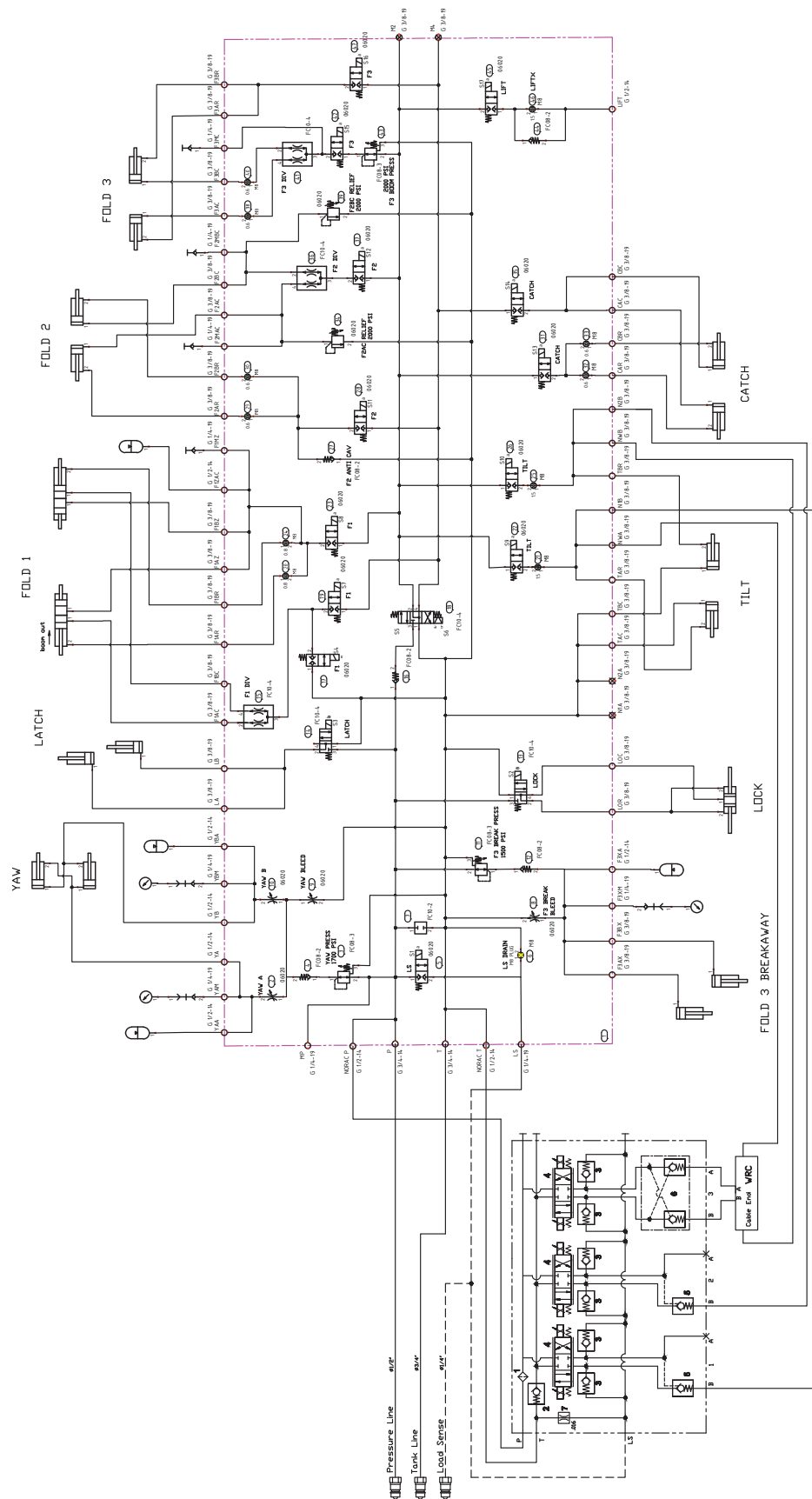
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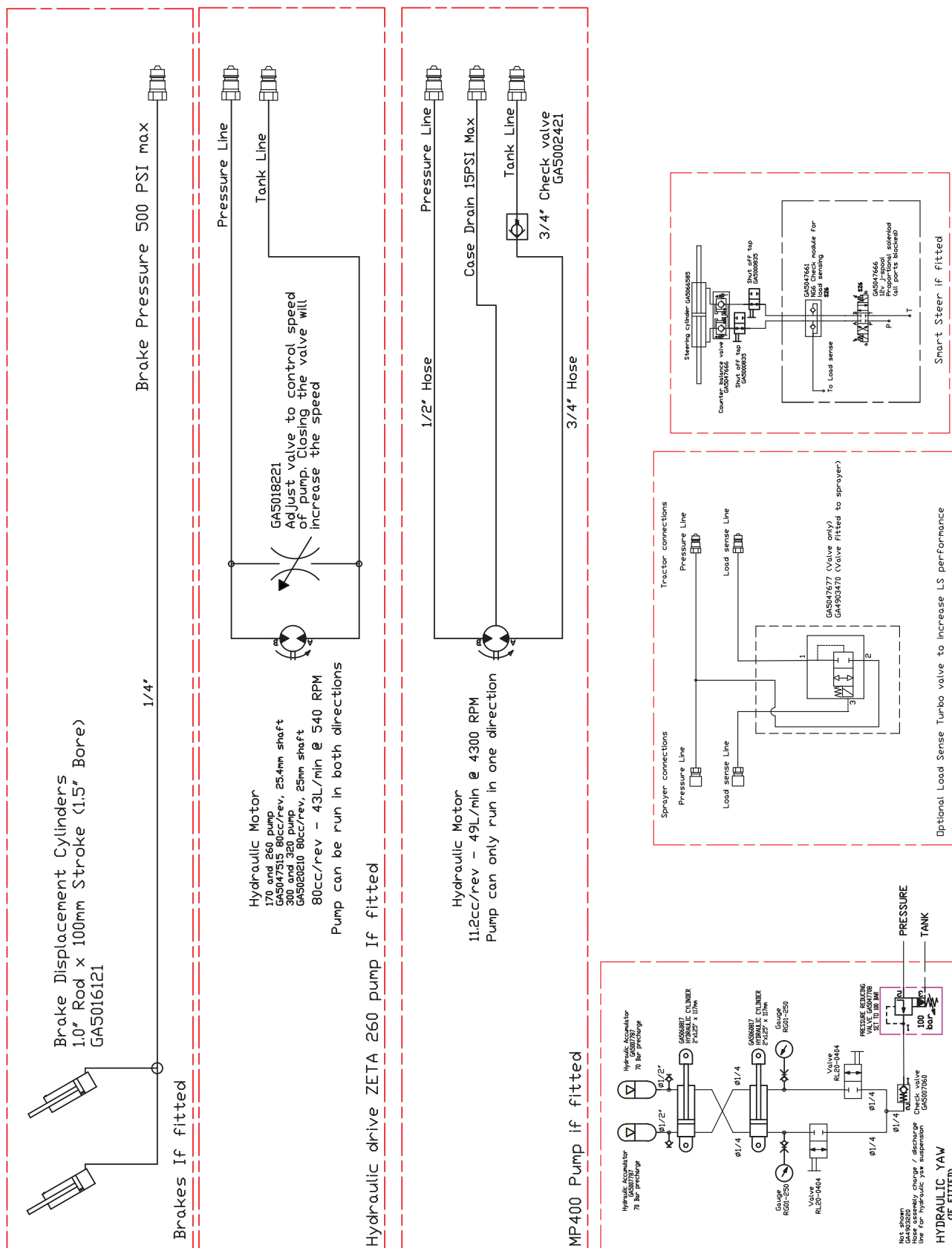
## Hydraulics - Spool Valves Closed Centre



# Hydraulics - 48m Boom



## Hydraulics - Pumps & Accessories



# Hydraulics - Hose - 5000L






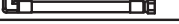




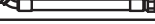














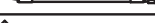
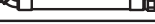




HOSE NUMBER	HOSE LENGTH	DESCRIPTION	ORIENTATION	Hose P/N
Spool Valve and Lift Hoses				
01	6000mm	Tractor to Tee - Pressure Line		GA5067890
02	3900mm	Spool valve to accumulator		GA5067899
03	2100mm x 2	Accumulator to Lift Cylinder		GA5067898
04	6300mm	Tee to Spool Valve - Tank Line		GA5067906
05	7100mm	Tee to Spool - Pressure Line		GA5067907
06	6000mm	Tractor to Tee - Tank Line		GA4905049
07	14600mm	Tractor to Spool - Load Sense		GA5067891
Fold Hoses with Spool				
08	3015mm (1R)	SPOOL BLOCK B, TO LEFT FOLD CYLINDER ROD END		GA3500687
09	2715mm (2R)	SPOOL BLOCK B, TO RIGHT FOLD CYLINDER ROD END		GA3500688
46	2160mm (3R)	FLOW DIVIDER 2 TO RIGHT FOLD CYLINDER BASE		GA3500689
167	2175mm (4R)	FLOW DIVIDED 4 TO LEFT FOLD CYLINDER BASE		GA3500690
47	390mm (1B)	SPOOL BLOCK A TO FLOW DIVIDER 3 FOLD CYLINDERS		GA3500691
Non Spool				
	6000mm	Tractor To Limit Switch		GA5067886
	4300mm	Limit Switch To Accumulator		GA4905031
	2100mm x 2	Accumulator To Lift Cylinder		GA5067898
	14600mm	Tractor		
	14600mm	Tractor		
10	3560mm	Crossover link (TRI TECH)		GA4905018
Tilt with Spool				
11	1480mm (1Y)	Left Tilt 1		GA5067091
12	1140mm (2Y)	Left Tilt 2		GA5067092
13	1400mm (1B)	Right Tilt 1		GA5067087
14	1030mm (2B)	Right Tilt 2		GA5067086
Tilt with out Spool				
65	14000mm x 2 (1 x 1Y) & (1 x 2Y)	Cylinder to Tractor 1		GA5067230
66	14000mm x 2 (1 x 1B) & (1 x 2B)	Tilt to Tractor 2		GA5067231
Hydraulic Yaw Hoses				
15	1500mm (1Y)	Yaw Hose 1		GA5067285
16	555mm (2Y)	Yaw Hose 2		GA5067133
17	785mm (1B)	Yaw Hose 3		GA5067134
18	1680mm (2B)	Yaw Hose 4		GA5067132
19	1680mm (1R)	Yaw Hose 5		GA4903200
20	1140mm	Yaw Hose 6		GA5067136
21	560mm	Yaw Hose 7		GA5067137

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# Hydraulics - Hose - 5000L

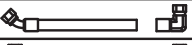
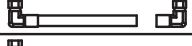
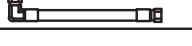
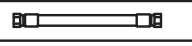
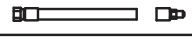
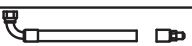
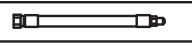
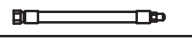
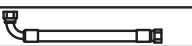
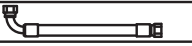
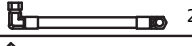
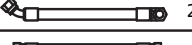
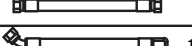
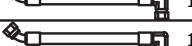
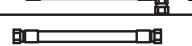
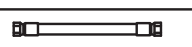
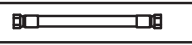
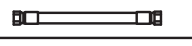
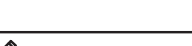
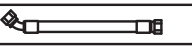
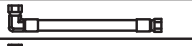


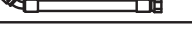
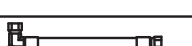
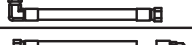
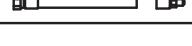
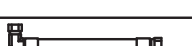
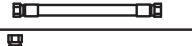
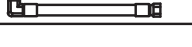

HOSE NUMBER	HOSE LENGTH	DESCRIPTION	ORIENTATION	Hose P/N
Yaw with Spool				
22	575mm (2B,1R)	Pressure to Yaw Block		GA5067253
22A	575mm (2B,1R)	Pressure to Yaw Block. IF NORAC OPTIONED		GA3500686
23	700mm (2B,2R)	Tank to Yaw Block		GA5067254
Yaw without Spool				
24	3200mm ( )	Reducing Block to Accumulator		GA5067123
25	12600mm (1Y,1R,1B)	Return to Sprayer		GA5067124
Hydraulic Driven Spray Pump ZETA 260				
43	4000mm ( ) x 2	Spray Pump		GA4922105
44	300mm ( )	Spray Pump		GA4922110
45	340mm ( )	Spray Pump		GA4922115
Bi-fold Hoses				
50	8900mm (1B)	Right Hand Gauge		GA5067128
51	8900mm	Left Hand Gauge		GA5067128
74	835mm (1B,1Y)		270°	GA3500566
75	510m (2B,1Y)	SPOOL VALVE B, FLOW DIVIDER 3, BI-FOLD	270°	GA3500567
76	300mm x 1	BI-FOLD LINK HOSE		GA5067131
164	235 (1B, 1R)	FLOW DIVIDER 2, FRONT DOUBLE PILOT CHECK VALVE V2, BI-FOLD	180°	GA3500568
165	275 (2B, 1R)	FLOW DIVIDER 4, BACK DOUBLE PILOT CHECK VALVE V2, BI-FOLD	180°	GA3500569
77	5120mm (1Y)	BI-FOLD RV1		GA3500634
78	4970mm (2Y)	BI-FOLD RV2		GA3500635
79	4975mm (1B)	BI-FOLD LV1		GA3500636
80	5095mm (2B)	LV2		GA3500637
Fill Pump With Spool				
59	2230mm (1B)	Spool to Pump A		GA5067910
60	2260mm (1R)	Spool to Pump B		GA5067903
61	360mm			GA5067924
62	435mm			GA
Fill Pump Without Spool				
61	360mm			GA
62	435mm			GA
	7000mm x 2			
Centre Level Hoses				
81	1170mm (1Y)	SPOOL BLOCK A, CYLINDER CENTRE PORT		GA3500570
82	1270mm	SPOOL BLOCK B, CYLINDER ROD END		GA4905082
166	225mm	LINK HOSE		GA3500571

# Hydraulics - Hose - 6500/7500L












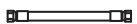







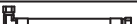
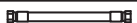

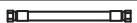









HOSE NUMBER	HOSE LENGTH	DESCRIPTION	ORIENTATION	Hose P/N
Spool Valve and Lift Hoses				
01	6000mm	Tractor to Tee - Pressure Line		GA5067890
02	3900mm	Spool valve to accumulator		GA5067899
03	2100mm x 2	Accumulator to Lift Cylinder		GA5067898
04	6900mm	Tee to Spool Valve - Tank Line		GA4905021
05	7700mm	Tee to Spool - Pressure Line		GA4905022
06	6000mm	Tractor to Tee - Tank Line		GA4905049
07	14600mm			GA4905023
Fold Hoses with Spool				
08	3015mm (1R)	SPOOL BLOCK B, TO LEFT FOLD CYLINDER ROD END		GA3500687
09	2715mm (2R)	SPOOL BLOCK B, TO RIGHT FOLD CYLINDER ROD END		GA3500688
46	2160mm (3R)	FLOW DIVIDER 2 TO RIGHT FOLD CYLINDER BASE		GA3500689
167	2175mm (4R)	FLOW DIVIDED 4 TO LEFT FOLD CYLINDER BASE		GA3500690
47	390mm (1B)	SPOOL BLOCK A TO FLOW DIVIDER 3 FOLD CYLINDERS		GA3500691
Non Spool				
	14600mm	Tractor		
	14600mm	Tractor		
	6000mm	Tractor To Limit Switch		GA5067886
10	3560mm	Crossover link (TRI TECH)		GA4905018
	4900mm	Limit Switch To Accumulator		GA4905024
	2100mm x 2	Accumulator To Lift Cylinder		GA5067230
Tilt with Spool				
11	1480mm (1Y)	Left Tilt 1		GA5067091
12	1140mm (2Y)	Left Tilt 2		GA5067092
13	1400mm (1B)	Right Tilt 1		GA5067087
14	1030mm (2B)	Right Tilt 2		GA5067086
Tilt with out Spool				
65	14000mm x 2 (1 x 1Y) & (1 x 2Y)	Cylinder to Tractor 1		GA5067230
66	14000mm x 2 (1 x 1B) & (1 x 2B)	Tilt to Tractor 2		GA5067231
Hydraulic Yaw Hoses				
15	1500mm (1Y)	Yaw Hose 1		GA5067138
16	555mm (2Y)	Yaw Hose 2		GA5067133
17	785mm (1B)	Yaw Hose 3		GA5067134
18	1680mm (2B)	Yaw Hose 4		GA5067132
19	1680mm (1R)	Yaw Hose 5		GA4903200
20	1140mm	Yaw Hose 6		GA5067136
21	560mm	Yaw Hose 7		GA5067137

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# Hydraulics - Hose - 6500/7500L

HOSE NUMBER	HOSE LENGTH	DESCRIPTION	ORIENTATION	Hose P/N
Yaw with Spool				
22	575mm (2B,1R)	Pressure to Yaw Block		GA5067253
22A	575mm (2B,1R)	Pressure to Yaw Block. IF NORAC OPTIONED		GA3500686
23	700mm (2B,2R)	Tank to Yaw Block		GA5067254
Yaw without Spool				
24	3200mm ( )	Reducing Block to Accumulator		GA5067123
25	12600mm (1Y,1R,1B)	Return to Sprayer		GA5067124
Hydraulic Driven Spray Pump ZETA 260				
43	4000mm ( ) 2	Spray Pump		GA4922105
44	300mm ( )	Spray Pump		GA4922110
45	340mm ( )	Spray Pump		GA4922115
Bi-fold Hoses				
50	9500mm (1B)	Right Hand Gauge		GA4905026
51	9500mm	Left Hand Gauge		GA4905026
74	835mm (1B,1Y)		 270°	GA3500566
75	510mm (2B,1Y)	SPOOL VALVE B, FLOW DIVIDER 3, BI-FOLD	 270°	GA3500567
76	300mm x 1	BI-FOLD LINK HOSE		GA5067131
164	235 (1B, 1R)	FLOW DIVIDER 2, FRONT DOUBLE PILOT CHECK VALVE V2, BI-FOLD	 180°	GA3500568
165	275 (2B, 1R)	FLOW DIVIDER 4, BACK DOUBLE PILOT CHECK VALVE V2, BI-FOLD	 180°	GA3500569
77	5120mm (1Y)	BI-FOLD RV1		GA3500634
78	4970mm (2Y)	BI-FOLD RV2		GA3500635
79	4975mm (1B)	BI-FOLD LV1		GA3500636
80	5095mm (2B)	LV2		GA3500637
Fill Pump With Spool				
59	2230mm (1B)	Spool to Pump A 6500 Only		GA5067910
60	2260mm (1R)	Spool to Pump B 6500 Only		GA5067903
61	360mm			GA5067924
62	435mm			GA
59	2480mm (1B)	Spool to Pump A 7500 Only		GA
60	2405mm (1R)	Spool to Pump B 7500 Only		GA
Fill Pump Without Spool				
61	360mm			GA
62	435mm			GA
	7000mm x 2			
Centre Level Hoses				
81	1170mm (1Y)	SPOOL BLOCK A, CYLINDER CENTRE PORT		GA3500570
82	1270mm	SPOOL BLOCK B, CYLINDER ROD END		GA4905082
166	225mm	LINK HOSE		GA3500571

# Hydraulics - Hose - 8500L

HOSE NUMBER	HOSE LENGTH	END 2	DESCRIPTION	ORIENTATION	Hose P/N
Spool Valve and Lift Hoses					
01	6000mm	Straight (T201-0808)	Tractor to Tee - Pressure Line		GA5067890
02	3900mm	Straight (T202-0808)	Spool valve to accumulator		GA5067899
03	2100mm x 2	Straight (T202-0808)	Accumulator to Lift Cylinder		GA5067898
04	7300mm	Straight (T202-1212)	Tee to Spool Valve - Tank Line		GA4905027
05	7990mm	Straight (T202-0808)	Tee to Spool - Pressure Line		GA4905028
06	6000mm	Straight (T201-1212)	Tractor to Tee - Tank Line		GA4905049
07	14600mm	Straight (T202-0404)	Tractor to Spool - Load Sense		GA4905029
Fold Hoses with Spool					
08	3015mm (1R)	Straight (T202-0404)	SPOOL BLOCK B, TO LEFT FOLD CYLINDER ROD END		GA3500687
09	2715mm (2R)	Straight (T202-0404)	SPOOL BLOCK B, TO RIGHT FOLD CYLINDER ROD END		GA3500688
46	2160mm (3R)	Straight (T202-0404)	FLOW DIVIDER 2 TO RIGHT FOLD CYLINDER BASE		GA3500689
167	2175mm (4R)	Straight (T202-0404)	FLOW DIVIDED 4 TO LEFT FOLD CYLINDER BASE		GA3500690
47	390mm (1B)	Straight (T202-0404)	SPOOL BLOCK A TO FLOW DIVIDER 3 FOLD CYLINDERS		GA3500691
Non Spool					
	15000mm (1R)	Straight (T202-0404)	Tractor		
	15000mm (2R)	Straight (T202-0404)	Tractor		
10	3560mm	JIC Straight (T204-0409)	Crossover link (TRI TECH)		GA4905018
	3080mm	90Deg (T205-0404)	Crossover link (Delta)		HL-19GA
	6000mm	Straight (T201-0808)	Tractor To Limit Switch		GA5067886
	5300mm	Straight (T202-0808)	Limit Switch To Accumulator		GA4905031
	2100mm x 2	Straight (T202-0808)	Accumulator To Lift Cylinder		GA5067898
Tilt with Spool Hoses					
11	1480mm (1Y)	Straight (T204-0609)	Left Tilt 1		GA5067091
12	1140mm (2Y)	Straight (T204-0609)	Left Tilt 2		GA5067092
13	1400mm (1B)	Straight (T204-0609)	Right Tilt 1		GA5067087
14	1030mm (2B)	Straight (T204-0609)	Right Tilt 2		GA5067086
Tilt with out Spool					
65	14500mm x 2 (1 x 1Y) & (1 x 2Y)	Straight (T202-0404)	Cylinder to Tractor 1		GA5067230
66	14500mm x 2 (1 x 1B) & (1 x 2B)	Straight (T202-0404)	Tilt to Tractor 2		GA5067231
Hydraulic Yaw Hoses					
15	1500mm (1Y)	straight (T202-0404)	Yaw Hose 1		GA5067138
16	555mm (2Y)	Straight (T202-0404)	Yaw Hose 2		GA5067133
17	785mm (1B)	Straight (T202-0404)	Yaw Hose 3		GA5067134
18	1680mm (2B)	Straight (T202-0404)	Yaw Hose 4		GA5067132
19	1680mm (1R)	Straight (T202-0404)	Yaw Hose 5		GA4903200
20	1140mm	Straight (T202-0808)	Yaw Hose 6		GA5067136
21	560mm	Straight (T202-0808)	Yaw Hose 7		GA5067137

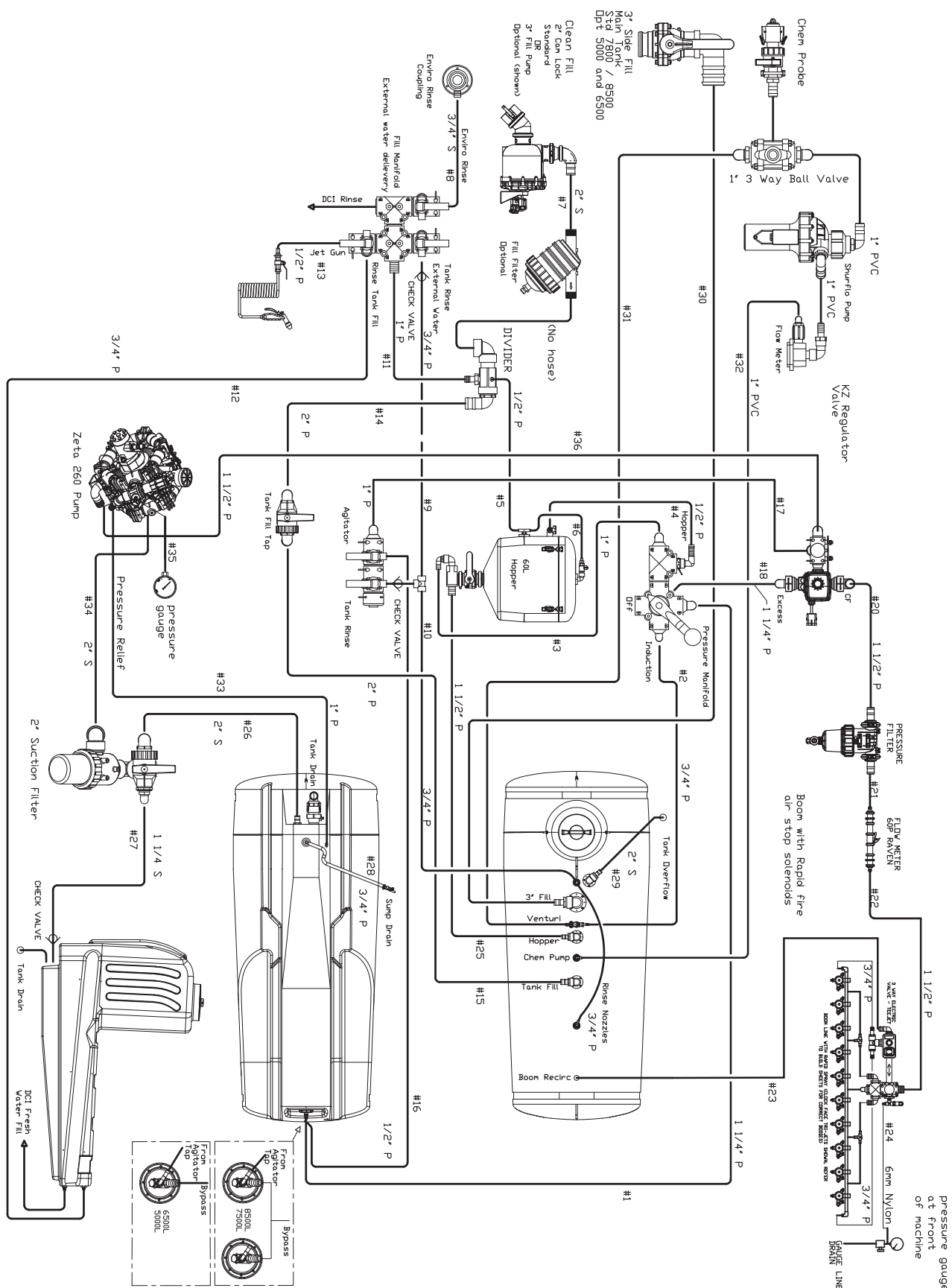
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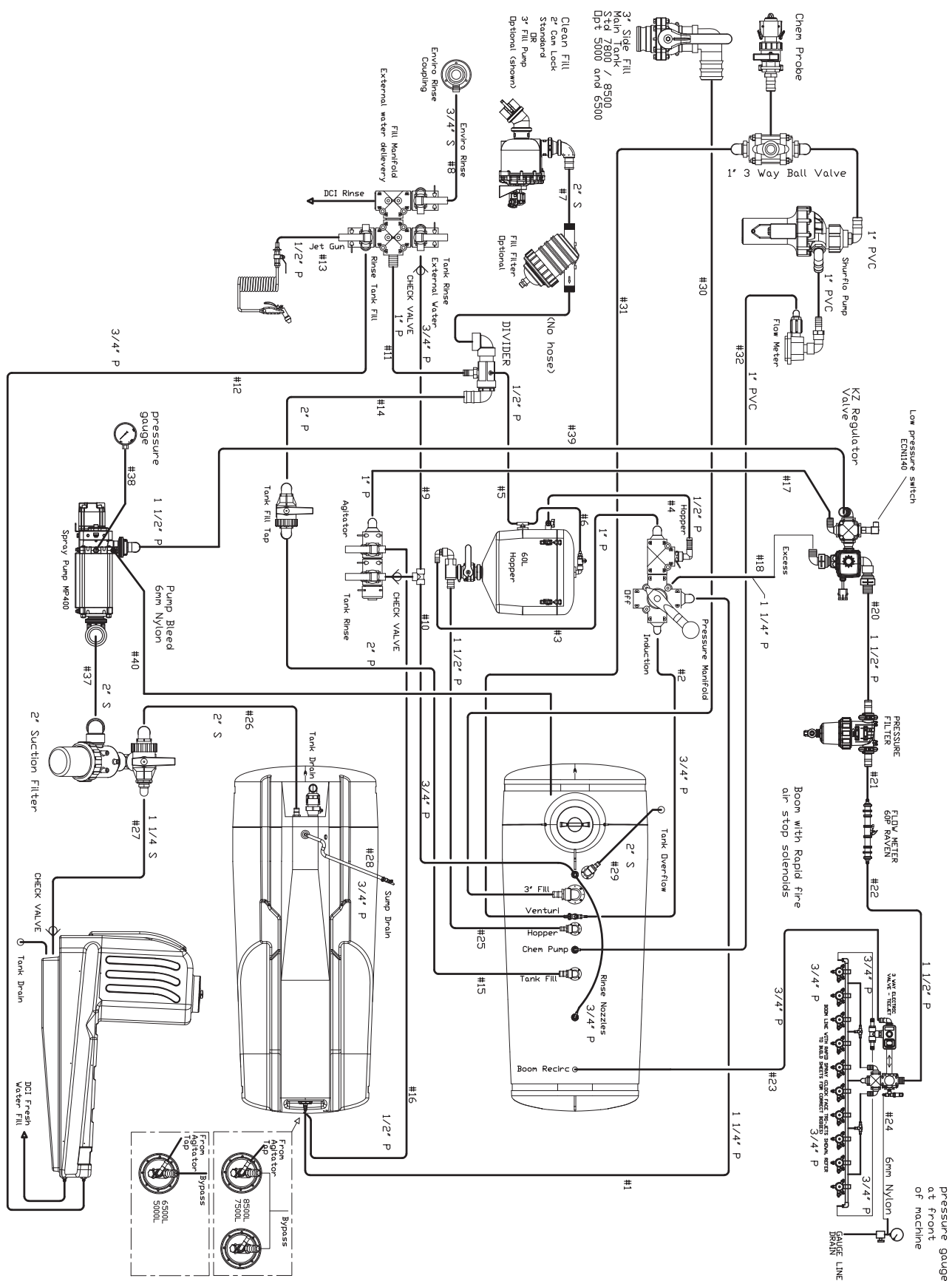
# Hydraulics - Hose - 8500L

HOSE NUMBER	HOSE LENGTH	DESCRIPTION	ORIENTATION	Hose P/N
Yaw with Spool				
22	575mm (2B,1R)	Pressure to Yaw Block		GA5067253
22A	575mm (2B,1R)	Pressure to Yaw Block. IF NORAC OPTIONED		GA3500686
23	700mm (2B,2R)	Tank to Yaw Block		GA5067254
Yaw without Spool				
24	3200mm ( )	Reducing Block to Accumulator		GA5067123
25	12600mm (1Y,1R,1B)	Return to Sprayer		GA5067124
Hydraulic Driven Spray Pump ZETA 260				
43	4000mm ( ) x 2	Spray Pump		GA4922105
44	300mm ( )	Spray Pump		GA4922110
45	340mm ( )	Spray Pump		GA4922115
Bi-fold Hoses				
50	9900mm (1B)	Right Hand Gauge		GA4905034
51	9900mm ( )	Left Hand Gauge		GA4905034
74	835mm (1B,1Y)		270°	GA3500566
75	510mm (2B,1Y)	SPOOL VALVE B, FLOW DIVIDER 3, BI-FOLD	270°	GA3500567
76	300mm x 1	BI-FOLD LINK HOSE		GA5067131
164	235 (1B, 1R)	FLOW DIVIDER 2, FRONT DOUBLE PILOT CHECK VALVE V2, BI-FOLD	180°	GA3500568
165	275 (2B, 1R)	FLOW DIVIDER 4, BACK DOUBLE PILOT CHECK VALVE V2, BI-FOLD	180°	GA3500569
77	5120mm (1Y)	BI-FOLD RV1		GA3500634
78	4970mm (2Y)	BI-FOLD RV2		GA3500635
79	4975mm (1B)	BI-FOLD LV1		GA3500636
80	5095mm (2B)	LV2		GA3500637
Fill Pump With Spool				
59	2480mm (1B)	Spool to Pump A		GA5067910
60	2405mm (1R)	Spool to Pump B		GA5067903
61	360mm			GA5067924
62	435mm			GA
Fill Pump Without Spool				
61	360mm			GA
62	435mm			GA
	7000mm x 2			
Centre Level Hoses				
81	1170mm (1Y)	SPOOL BLOCK A, CYLINDER CENTRE PORT		GA3500570
82	1270mm	SPOOL BLOCK B, CYLINDER ROD END		GA4905082
166	225mm	LINK HOSE		GA3500571

# Plumbing - Zeta 260



# Plumbing - Arag 400



Hose Cut List							
Prairie Pro				Hose Length in Millimetres			
Hose No	Hose Part No	Hose Description	Hose Reference	5000 L	6500 L	7500 L	8500 L
5	GA2000211	1/2" Pressure	Hopper Rinse 1	4700	5000	5700	6100
4	GA2000211	1/2" Pressure	Hopper Rinse 2	5500		6000	6400
13	GA2000211	1/2" Pressure	Suzi Coil			1200	1200
16	GA2000211	1/2" Pressure	Agitator			6000	6400
2	GA2000216	3/4" Pressure	Venturi			6000	6400
8	GA2000216	3/4" Suction	Enviro Drum			2500	2900
9	GA2000216	3/4" Pressure		210	210	210	210
10	GA2000216	3/4" Pressure	Tank Rinse			4500	4900
12	GA2000216	3/4" Pressure	Rinse Fill			1500	1500
3	GA2000219	1" Pressure	Hopper Pressure	4000		5000	5000
11	GA2000219	1" Pressure	Manifold			950	950
17	GA2000219	1" Pressure	Fast Close X			2000	2400
1	GA2000223	1 1/4" Pressure	By Pass	5000	5000	5000	5500
18	GA2000223	1 1/4" Pressure	Fast Close			2000	2400
7	GA2000229	2" Rubber Suction	Fill Filter	1000	1000	1000	1000
14	GA2000229	2" Rubber Suction	Fill Point to Filter			900	900
15	GA2000229	2" Rubber Suction	Tank Fill			4400	4900
Sub Assembly				Were Fitted			
			Fill Filter Divider to Hopper				
			Pressure Manifold to Hopper (middle inlet Valve)				
			Fill Manifold (External Water Delivery) to Hose Gun Tap				
			Pressure Delivery (Agitator Tap) to Tank Agitator				
			Pressure Manifold to Tank Venturi				
			Fill Manifold (External Water Delivery) to Enviro Rinse Coupling				
			Fill Manifold (External Water Delivery) to Tee on Tank Rinse Valve				
			Tank Rinse Valve Tee to Main Tank Rinse Nozzle				
			Fill Manifold (External Water Delivery) to Belly Tank (Fresh Water)				
			Pressure Manifold to Hopper (bottom inlet Valve)				
			Fill Manifold (External Water Delivery) to Fill Filter Divider				
			Pressure Delivery (Agitator Tap) to Regulator Valve				
			Pressure Manifold to Tank Bypass Tap				
			Regulator Valve to Pressure Manifold				
			Fill Filter to Camlock Inlet fitting				
			Fill Filter Divider to Tank Fill Tap				
			Tank Fill Flow Meter to Tank Fill				

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Hose Cut List						
Prairie Pro			Hose Length in Millimetres			
Hose No	Hose Part No	Hose Description	5000 L	6500 L	7500 L	8500 L
20	GA2000225	1 1/2" Pressure			1500	1500
21	GA2000225	1 1/2" Pressure			6500	6500
22	GA2000225	1 1/2" Pressure			800	800
23	GA2000216	3/4" Pressure			5000	5000
24	GA5004383	6mm Nylon (Black)			15000	15000
25	GA2000225	1 1/2" PVC Suction	8000	8000	8000	8000
26	GA2000229	2" Rubber Suction			2000	2000
27	GA2000224	1 1/4" Rubber Suction			3500	3500
28	GA2000216	3/4" Pressure			1500	1500
29	GA2000216	3/4" Pressure			3500	3500
30	GA2000228 GA2000076	2" PVC Suction 3" PVC Suction			4500	4500
31	GA2000220	1" PVC Suction			4500	4500
32	GA2000220	1" PVC Suction			4500	4500
Zeta Pump Configuration						
33	GA2000219	1" Pressure	2000		3000	3000
34	GA2000229	2" Rubber Suction			3600	3600
35	GA5004383	6mm Nylon (Black)			4500	4500
36	GA2000225	1 1/2" Pressure			3000	3000
Arag Pump Configuration						
37	GA2000229	2" Rubber Suction				
38	GA5004383	6mm Nylon (Black)				
39	GA2000226	2 1/2" Pressure				
40	GA5004383	6mm Nylon (Black)				

**Main Assembly**

**Were Fitted**

Regulator Valve to Pressure Filter

Pressure Filter to Flow Meter

Flow Meter to Boom Manifold

Boom Manifold to Tank Recure inlet

Boom Valve to Gauge

Tank to Hopper

Tank to Suction Filter

Suction Filter to Belly Tank

Tank Sump Drain

Tank Overflow

Tank Side Fill    **5-6500L (2" Std or 3" Option)**  
**7-8500L (3" Std)**

Chem Probe to Tank Venturi

**(Option)** Chem Probe to Tank Chem Prob

Zeta Pump to Main Tank (Pressure Relief)

Suction Filter to Pump

Pump to Pressure Gauge

Pump to Regulator Valve

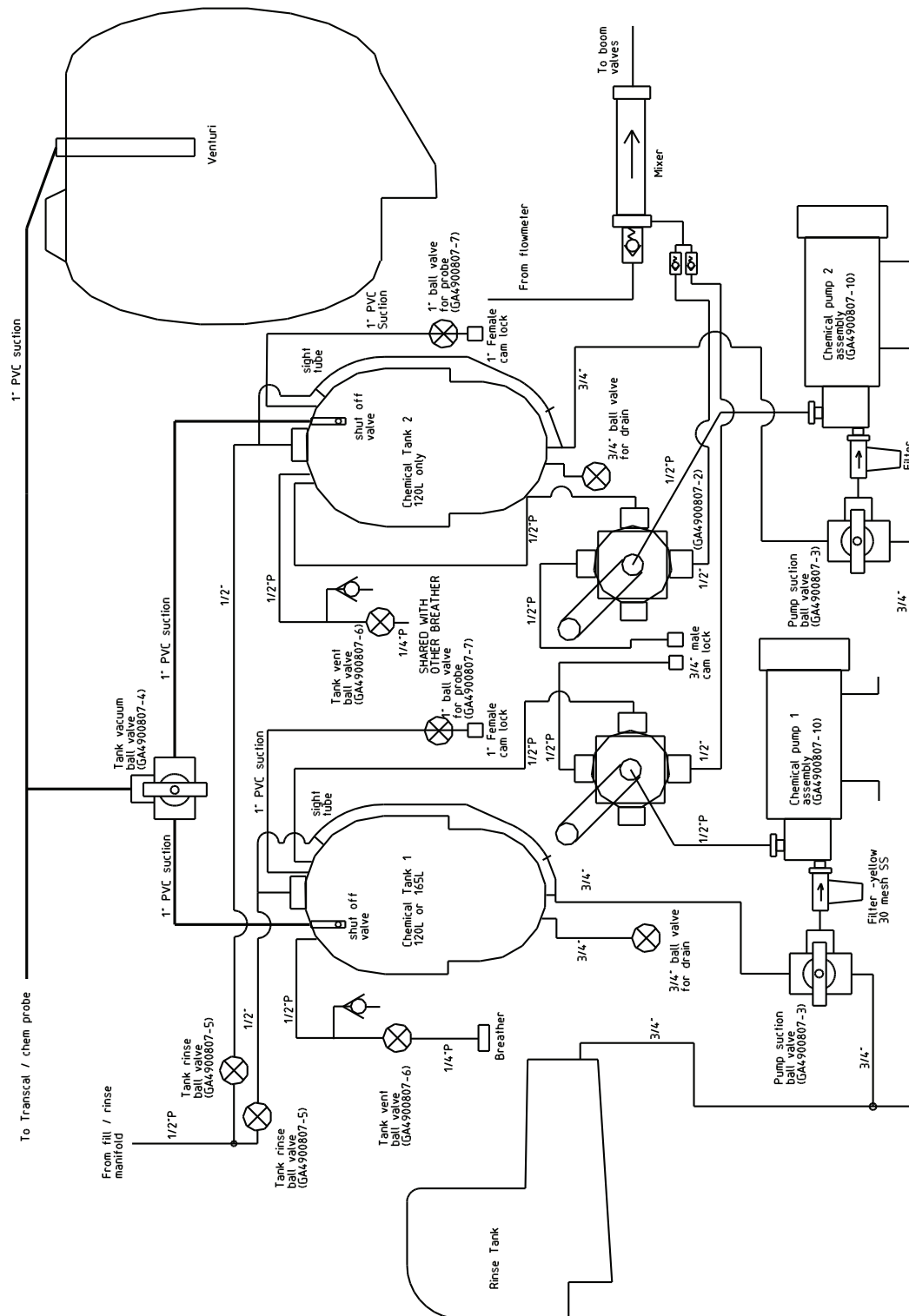
Suction Filter to Pump

Pump to Pressure Gauge

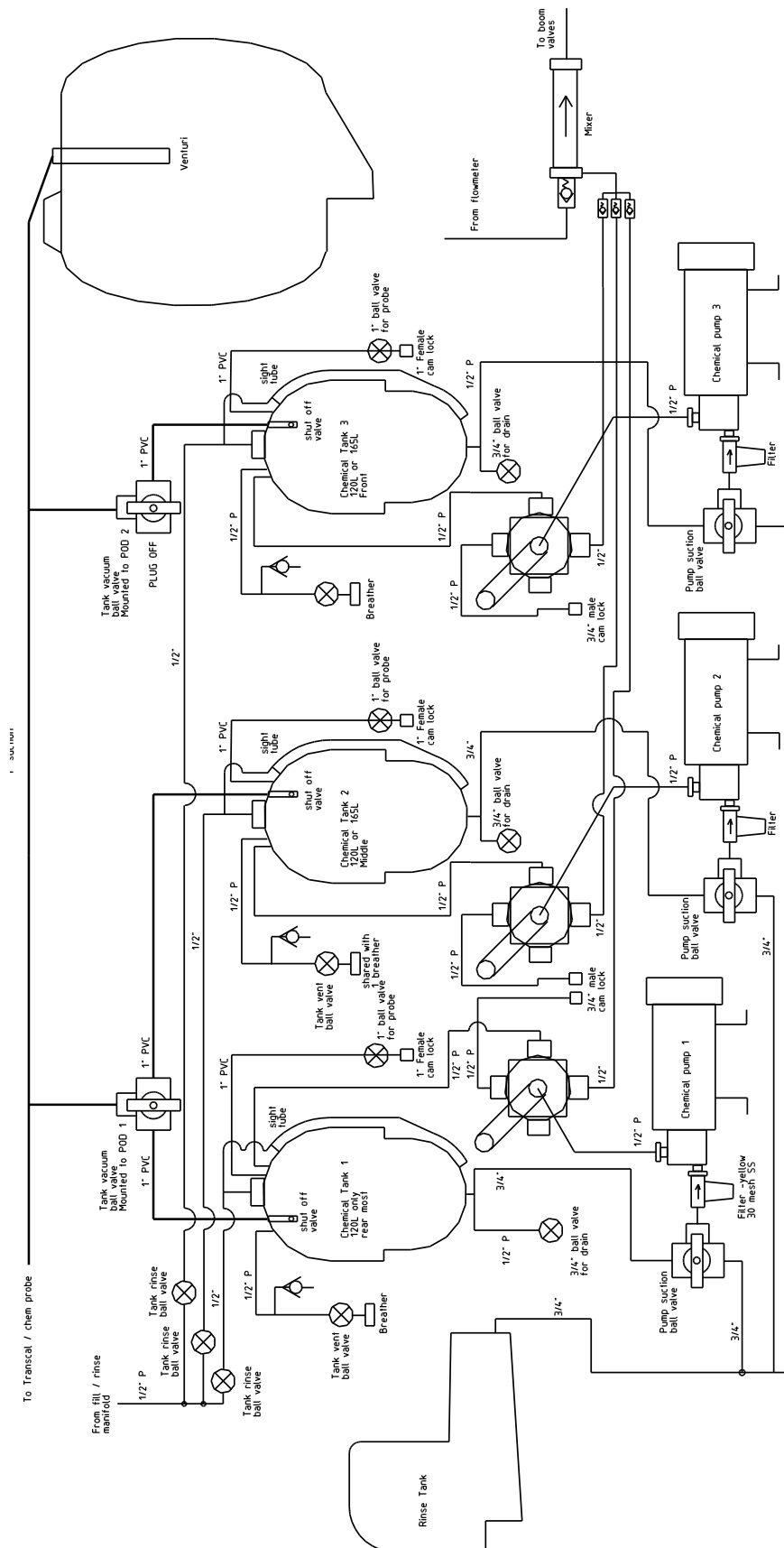
Pump to Regulator Valve

Pump Bleed to Main Tank

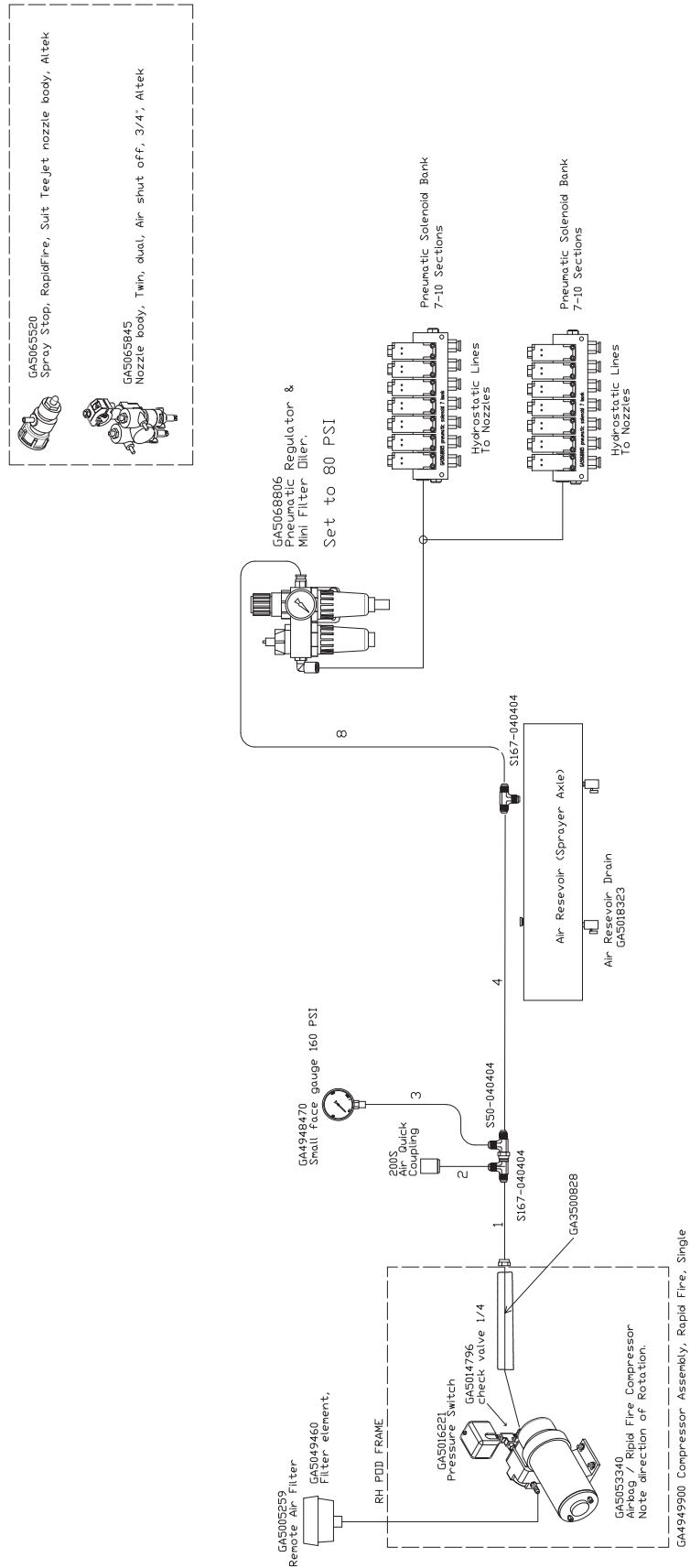
# Plumbing - Direct Chemical Injection - Dual Unit



## Plumbing - Direct Chemical Injection - Triple Unit

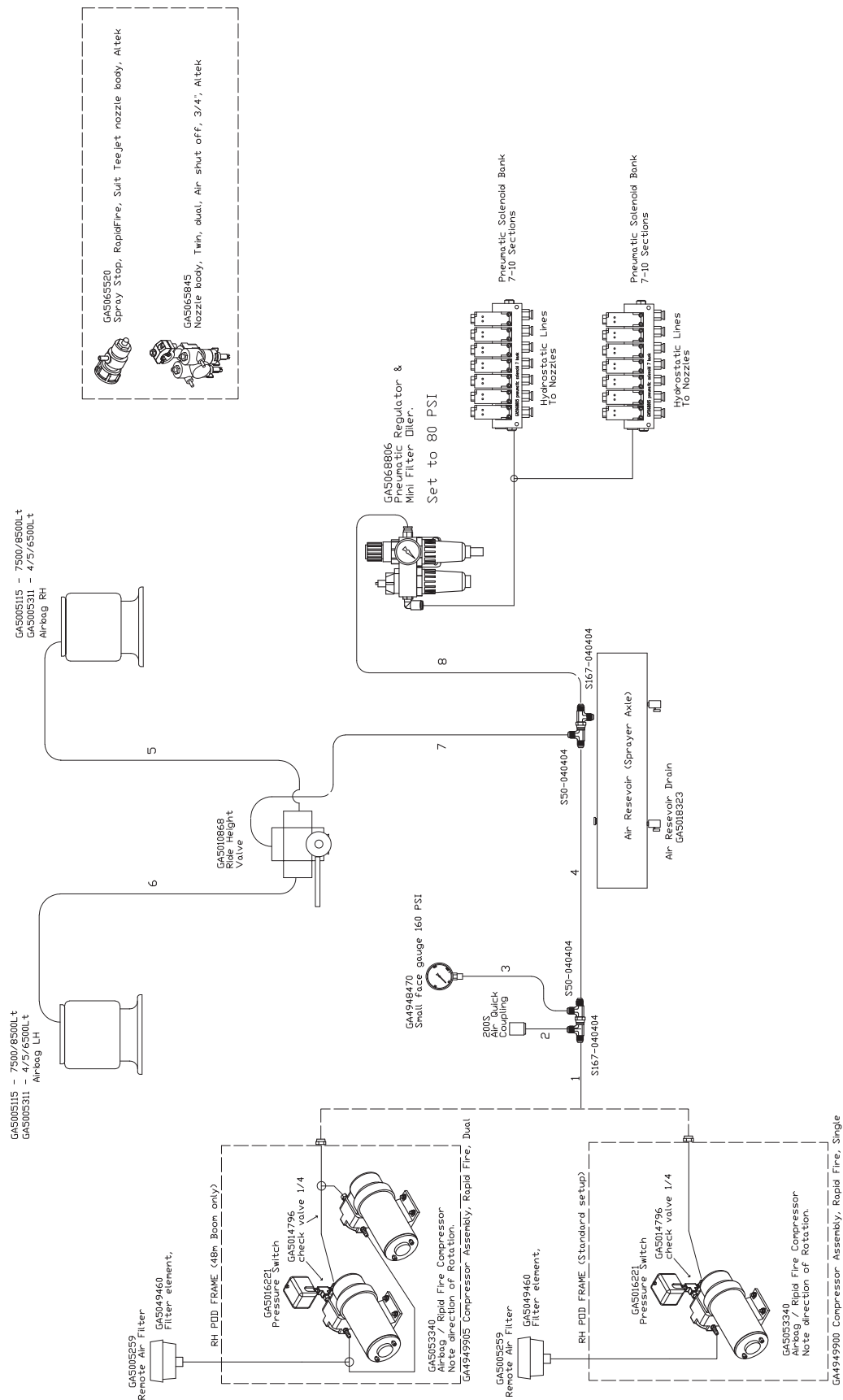


# Pneumatics - Non-Airbag

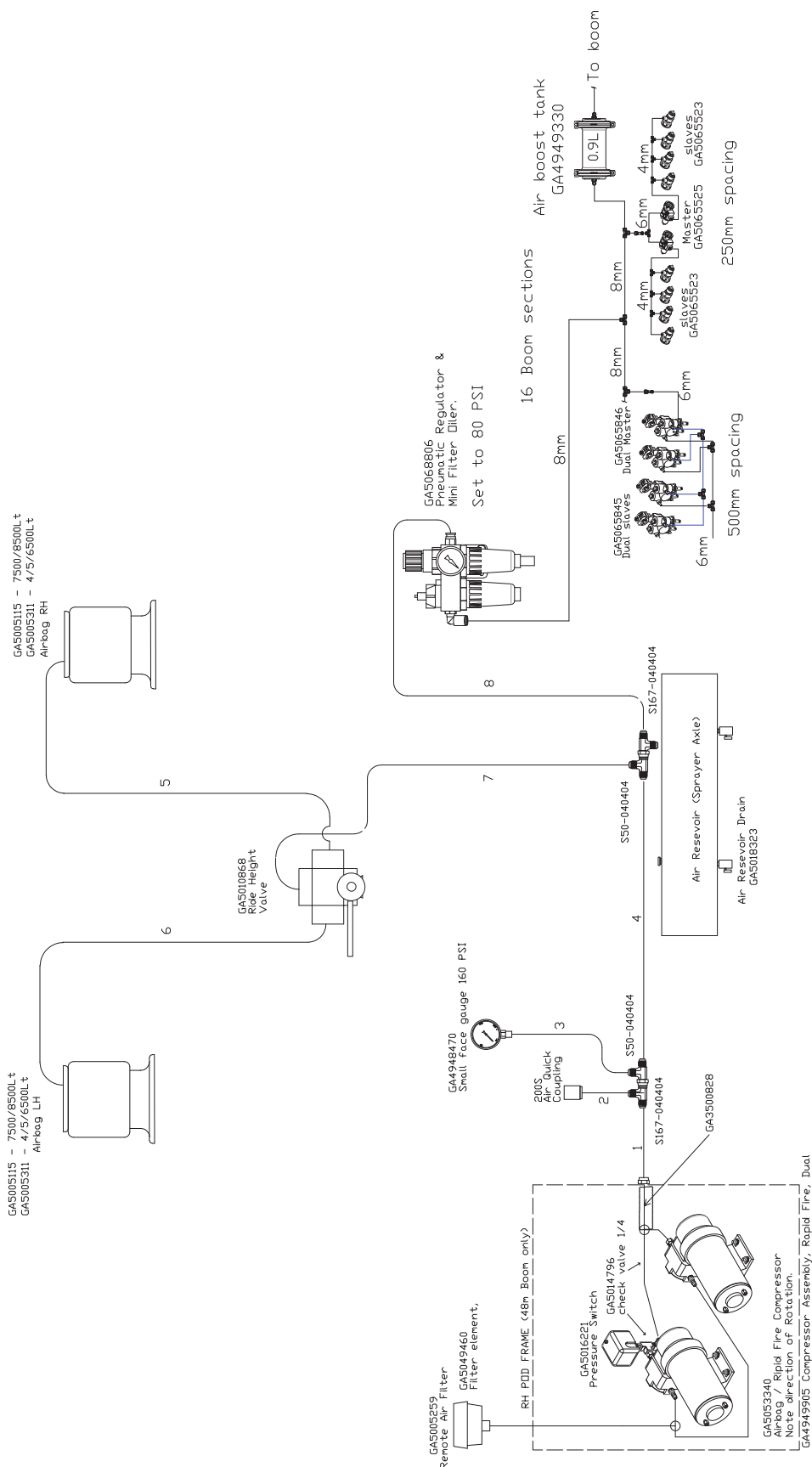




## Pneumatics - Airbag 24-42 m



## Pneumatics - Airbag 48 m



## DECALS

## Decals - Base Kit



PART NUMBER	DESCRIPTION
GA8701044	DECAL KIT, PRAIRIE PRO, BASE KIT

## Decals - Base Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA8700268	DECAL, OUTER RIGHT SIDE POD DOOR PANEL	1
2	GA8700271	DECAL, OUTER LEFT SIDE POD DOOR PANEL	1
3	GA8700270	DECAL, INNER RIGHT SIDE POD DOOR PANEL	1
4	GA8700267	DECAL, INNER LEFT SIDE POD DOOR PANEL	1

# Decals - Base Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA8700172	WARNING SUMMARY	1
2	GA8700671	MAIN TANK DRAIN	1
3	GA8700673	FILL PUMP	1
4	GA8700294	CHEMICAL INDUCTION / PUMP SUCTION	1
5	GA8700670	CHAIN POINT	4
6	GA5061885	GOLDACRES	1
7	GA5064775	MAIN SPRAY PRESSURE / AIR PRESSURE	1
8	GA8700003	SUPER FLOW	1
9	GA8701003	WARNING - DO NOT PRESSURE WASH ELECTRICAL	1

## Decals - Base Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5062475	FLUSH WATER ONLY	1
2	GA5063370	WARNING - NOZZLE	2
3	GA5015991	KEEP HANDS CLEAR	12
4	GA8700889	WARNING - FLUSH CHEMICAL / CAUTION - LOCK HOPPER	4
5	GA5015971	DRAIN ONLY	1
6	GA5064169	BOOM OVERRIDE / SPEED CONTROL	1
7	GA8700662	WARNING - PLATFORM	1
8	GA8700894	WARNING - HOPPER RELEASE	1
9	GA5062090	CAUTION - JACK HANDLE	1
10	GA5064168	BI-FOLD LEFT	1
11	GA5064167	BI-FOLD RIGHT	1
12	GA5062870	FOAM & AIR BAG FILTER	1
13	GA5061900	SPRAY PRESSURE DRAIN VALVE	1
14	GA8700449	CHEMICAL TRANSFER PUMP	1
15	GA8701022	ISO H.C. POWER	1
16	GA8701027	RELAY / FUSES	1
17	GA8701028	DIODES	1



## Decals - Base Kit



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5017555	WARNING - CHECK WHEEL NUTS	2
2	GA222EVO	GREASE	57
3	GA8700665	DANGER / CAUTION	2
4	GA220EVO	THREE TIER SYSTEM	1
5	GA5064166	3D BREAKAWAY ADJUSTMENT - RIGHT	1
		3D BREAKAWAY ADJUSTMENT - LEFT	1
6	GA5063878	KEEP ME OILED	2
7	GA5064500	OPEN / CLOSED	2
8	GA8700664	DANGER - STAND CLEAR BOOM	2
9	GA8701050	SWITCH LABELS	1
10	GA5064169	BOOM OVERRIDE & SPEED CONTROL VALVE PLUS BOX LABEL	1
11	GA5061900	SPRAY PRESSURE DRAIN VALVE	1
12	GA5064167	BI-FOLD LEFT	1
13	GA5064168	BI-FOLD RIGHT	1
14	GA5062870	FOAM & AIRBAG FILTER	1

## Decals - Tank




ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA8700242	DECAL, TANK, 5024, LEFT AND RIGHT, GOLDACRES PRO	1
	GA8700243	DECAL, TANK, 5028, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700260	DECAL, TANK, 5030, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700244	DECAL, TANK, 5033, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700245	DECAL, TANK, 5036, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700246	DECAL, TANK, 6524, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700247	DECAL, TANK, 6528, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700248	DECAL, TANK, 6530, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700249	DECAL, TANK, 6533, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700261	DECAL, TANK, 6536, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700250	DECAL, TANK, 7524, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700251	DECAL, TANK, 7528, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700252	DECAL, TANK, 7530, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700253	DECAL, TANK, 7533, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700262	DECAL, TANK, 7536, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700254	DECAL, TANK, 8524, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700255	DECAL, TANK, 8528, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700256	DECAL, TANK, 8530, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700257	DECAL, TANK, 8533, LEFT AND RIGHT, GOLDACRES PRO	
	GA8700258	DECAL, TANK, 8536, LEFT AND RIGHT, GOLDACRES PRO	



# Decals - Switch Boxes

(A)


**GOLDACRES**

Tilt left  
UP

Tilt right  
UP

Boom  
UP

Boom fold  
OUT

Bi-fold  
OUT

Beacon  
ON

Fenceline right  
ON

DOWN  
Tilt left

DOWN  
Tilt right

DOWN  
Boom


IN  
Boom fold

IN  
Bi-fold

ON  
Boom lights

ON  
Fenceline left

(B)


**GOLDACRES**

Steer crab  
LEFT

Steering  
ON

Foam  
ON

Foam  
LEFT

Dual product  
ON

Boom recirc  
ON

RIGHT  
Steer crab

OFF  
Steering


OFF  
Foam

RIGHT  
Foam

OFF  
Dual product

OFF  
Boom recirc

(C)


**GOLDACRES**

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

ITEM	PART NUMBER	DESCRIPTION	QTY.
A	GA4903710	SWITCH BOX A PRAIRIE	1
B	GA4903715	SWITCH BOX B PRAIRIE	1
C	GA4903720	SWITCH BOX C PRAIRIE	1

## Decals - Dry Sight Tube

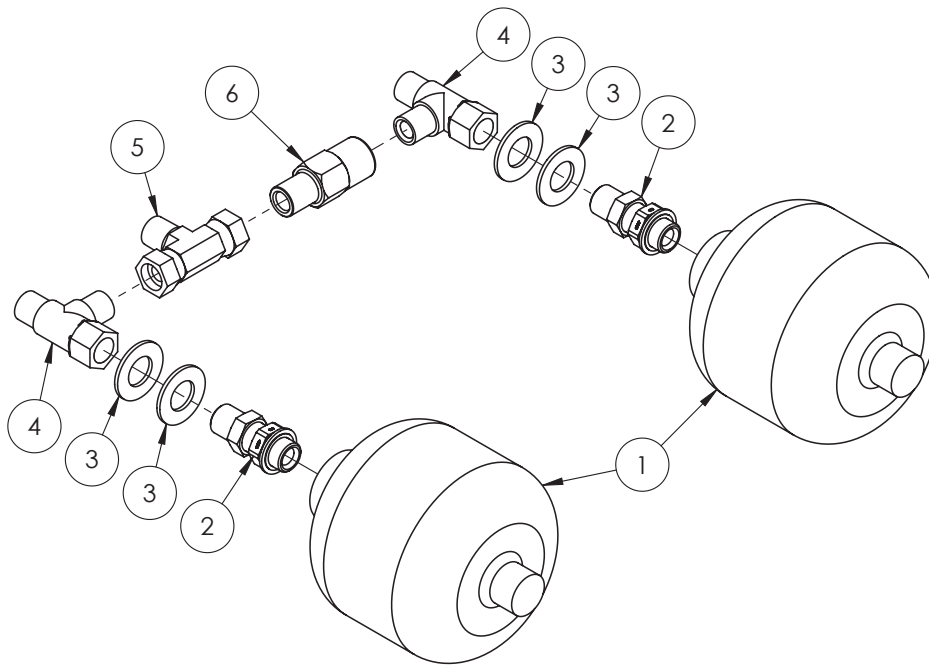
COLUMBIA UNIVERSITY																	
420	500	600	800	1000	1200	1400	1600	1800	2000	2200	2400						
2600	2800	3000	3200	3400	3600	3800	4000	4200	4400	4600	4800	5000	5200	5400	5600	5800	6000
6200	6400	6600	6800	7000	7200	7400	7600	7800	8000	8200	8400	8600	8800				

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070155	DECAL, DRY SIGHT TUBE, 5000L, TOW BEHIND	1
2	GA5061880	DECAL, DRY SIGHT TUBE, 6500L, TOW BEHIND	
3	GA5061887	DECAL, DRY SIGHT TUBE, 7500L, TOW BEHIND	
4	GA5061915	DECAL, DRY SIGHT TUBE, 8500L, TOW BEHIND	

## Chapter 18

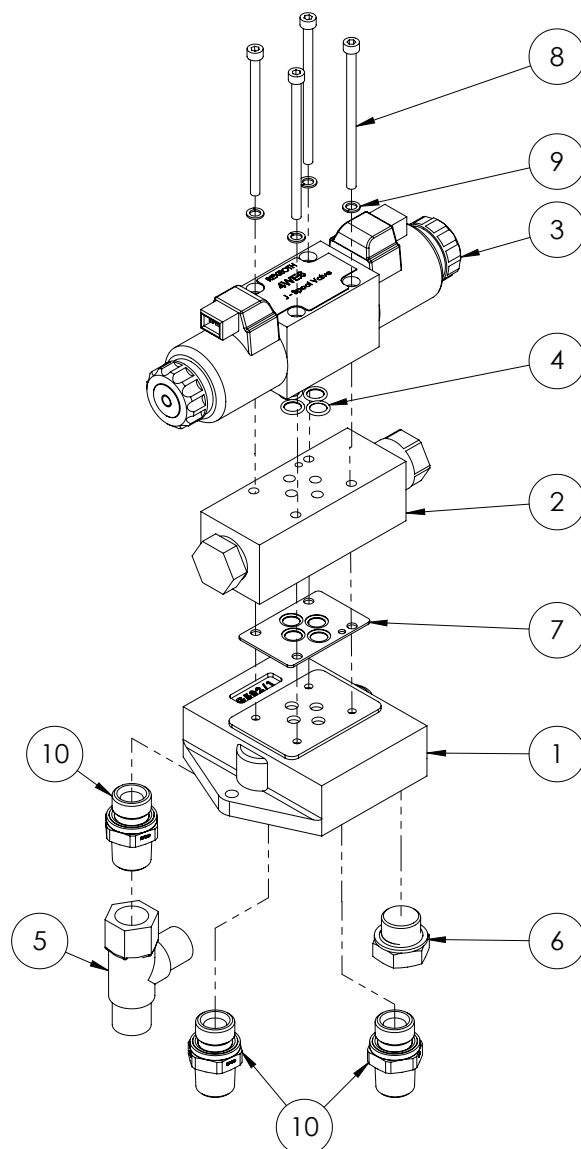
# HYDRAULICS

### Boom Lift Accumulator Manifold



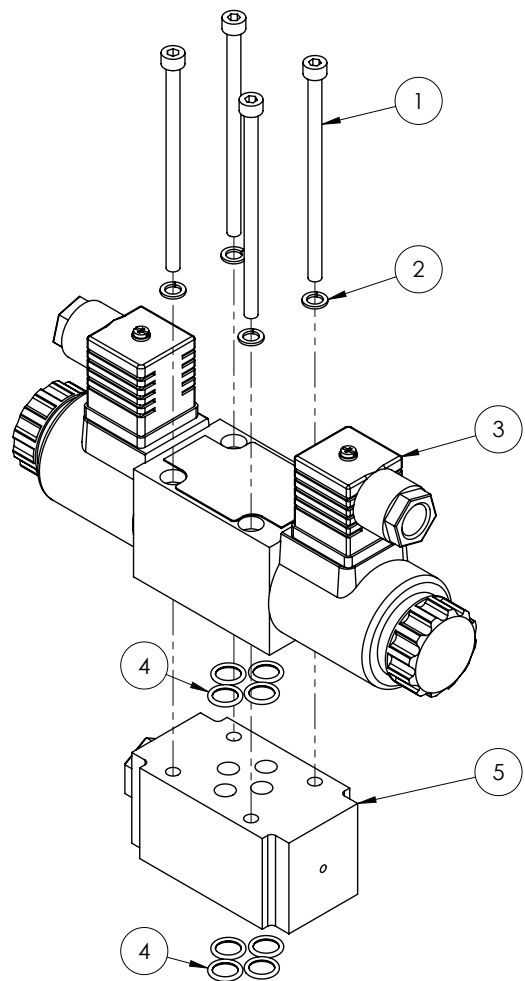
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5007787	ACCUMULATOR 1.0L PRECHARGE 70 BAR	2
2	GAS99-603	HYDRAULIC ADAPTOR, BULKHEAD NIPPLE, 1/2" BSP MALE X 1/2" BSP MALE	2
3	GA5001045	WASHER, 3/4", FLAT ZP	4
4	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
5	GA3500336	HYDRAULIC ADAPTOR, TEE, 1/2" BSPP FEMALE SWIVEL X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	1
6	GA4572110	HYDRAULIC ADAPTOR, FITTING TO SUIT ACCUMULATOR, 1/2" BSPT MALE X 1/2" BSPT FEMALE	1

## Fill Pump Manifold Assembly



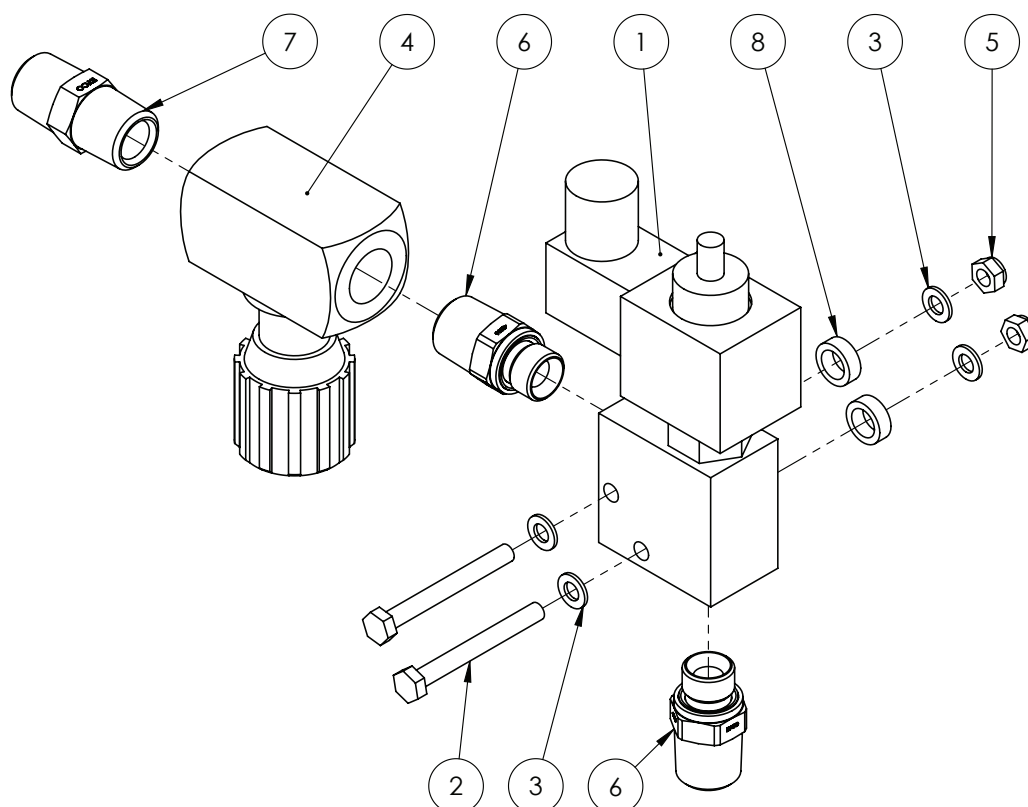
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5016139	HYDRAULIC MANIFOLD, SINGLE VALVE PORT, 1/2" INLETS / OUTLETS	1
2	GA5047583	VALVE, PRESSURE FLOW COMP STACKABLE	1
3	GA5047726	VALVE SOLENOID J SPOOL 12V 2 PIN AMP CONNECTOR	1
	GA5047750	SOLENOID COIL, 12V DC, SLIP ON, 2 PIN AMP	-
4	GA5047627	SEAL KIT - VITON, SUIT CEE TOP VALVE	1
5	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	1
6	GA3500301	HYDRAULIC ADAPTOR, PLUG, 1/2" BSPP MALE	1
7	GA5047615	PLATE Z2FS6 O-RING	1
8	GA5067050	SHCS M5 X 90 ZP GR12.9	4
9	GA5003629	WASHER 5MM SPRING SS	4
10	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	3

# Solenoid Valve - Smart Steer



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5047750	SOLENOID COIL, 12V DC, SLIP ON, 2 PIN AMP	-
1	GA5067050	SHCS M5 X 90 ZP GR12.9	4
2	GA5003629	WASHER 5MM SPRING SS	4
3	GA5047666	VALVE, SOLENOID, PROPORTIONAL, E SPOOL, 12V 3 PIN CONNECTOR, BOSCH	1
4	GA5047627	SEAL KIT - VITON, SUIT CEE TOP VALVE	2
5	GA5047661	NG6 CHECK MODULE	1

## 24-36m - Solenoid Valve - Boom Lower

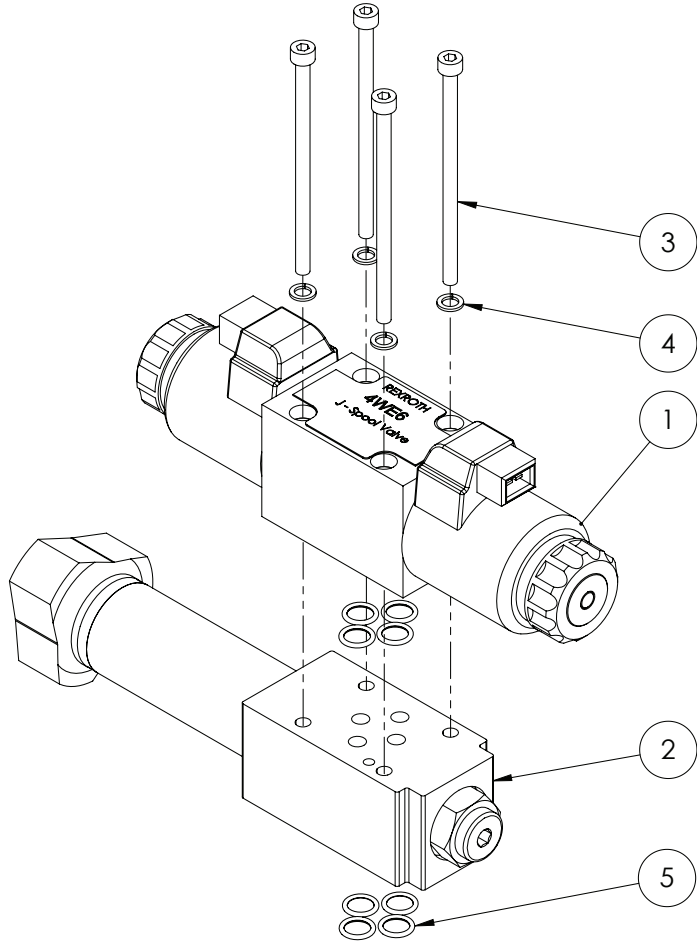


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047344	HYDRAULIC SOLENOID BOOM LOWER LIMIT CARTRIDGE AND BODY	1
2	GA5004093	BOLT M6 X 55 GR8.8 ZP	2
3	GA5004437	WASHER 6MM FLAT SS	4
4	GA5017393	FLOW CONTROL VALVE, WITH REVERSE FLOW CHECK, NEEDLE THROTTLE 1/2", TYPE DRV, HYDAC	1
5	GA5048115	NUT M6 NYLOC ZP	2
6	GA3500309	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/8" BSPP MALE	2
7	GA3500223	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPT MALE	1
8	GA4552080	CRUSH TUBE, 10.2 ID X 15 OD X 5 MM LONG	2

### SPARE PARTS

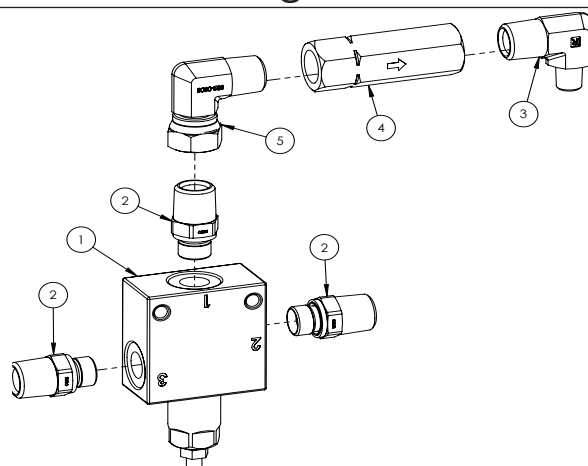
PART NUMBER	DESCRIPTION
GA5047650	COIL DIN CLASS H 12V DC IP65/S8 (SUIT UNLOADER AFTER 3-3-2008 AND BOOM LOWER SPOOL)
GA5010039	DIN HIRSCHMANN CONNECTOR STD BLACK SUIT C TOP 3
GA5048580	DIN HIRSCHMANN CONNECTOR K4L12 LED.

# 24-36m - Solenoid Valve - Bi-Fold



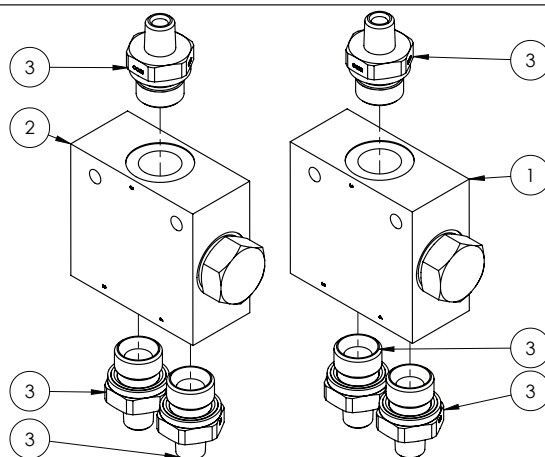
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5047750	SOLENOID COIL, 12V DC, SLIP ON, 2 PIN AMP	-
1	GA5047726	VALVE SOLENOID J SPOOL 12V 2 PIN AMP CONNECTOR	1
2	GA5017373	VALVE REDUCING MODULAR	1
3	GA5067050	SHCS M5 X 90 ZP GR12.9	4
4	GA5003629	WASHER 5MM SPRING SS	4
5	GA5047627	SEAL KIT - VITON, SUIT CEE TOP VALVE	1

## 24-36m - Pressure Reducing Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5047708	VALVE, PRESSURE REDUCING, HYDRAULIC, 10 - 140 BAR	1
2	GA3500309	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/8" BSPP MALE	3
3	GA3500260	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/4" BSPT MALE	1
4	GA5007060	VALVE, CHECK, HYDRAULIC, 1/2 BSPP FEMALE INLET & OUTLET, 45L/MIN FLOW, MAXIMUM 320BAR	1
5	GA3500333	HYDRAULIC ADAPTER, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	1

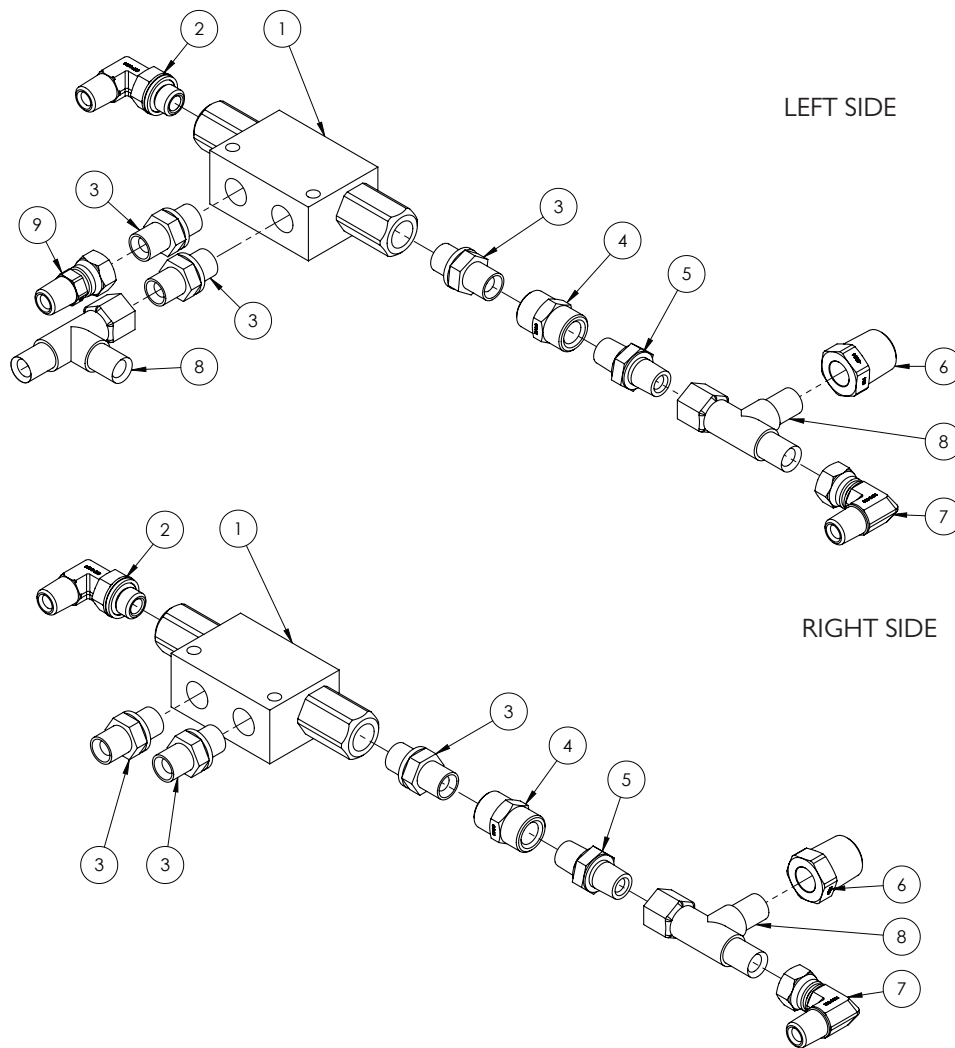
## 24-36m - Flow Dividers



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500106	HYDRAULIC VALVE, FLOW DIVIDER, 1 - 3 L/MIN - BI-FOLD	1
	GA5078462	CARTRIDGE, FLOW DIVIDER, 1 - 3 L/MIN, SUIT GA3500106	1
2	GA3500120	HYDRAULIC VALVE, FLOW DIVIDER, 5 - 13 L/MIN - FIRST STAGE FOLD	1
	GA5078463	CARTRIDGE, FLOW DIVIDER, 5 - 13 L/MIN, SUIT GA3500120	1
3	GA3500308	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/2" BSPP MALE	6

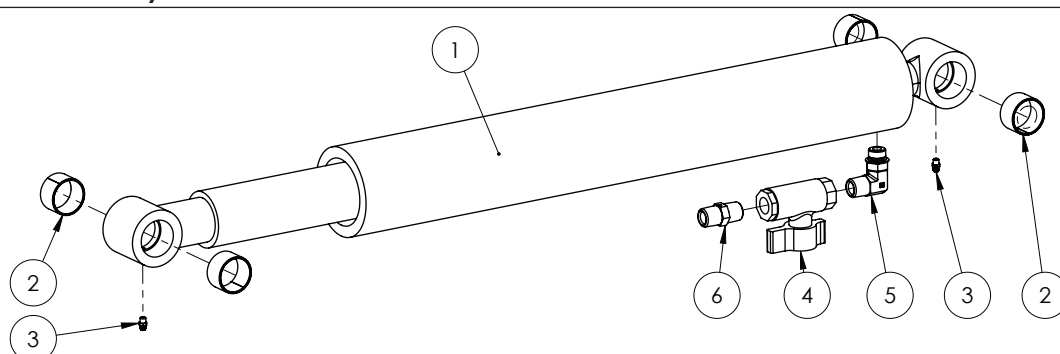


## 24-36m - Double Pilot Check Valves - Bi-fold



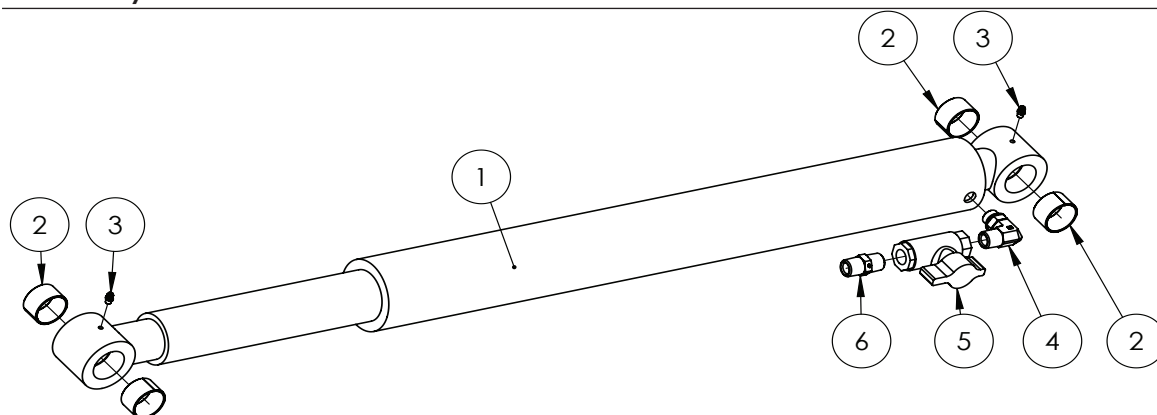
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5007957	DOUBLE PILOT CHECK (RA) 12LPM 1/4" BSPP	2
2	GA3500320	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP MALE O-RING	2
3	GA3500306	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPP MALE	6
4	GA3500211	HYDRAULIC ADAPTOR, SOCKET, 1/4" BSPT FEMALE X 1/4" BSPT FEMALE	2
5	GA4562025	RESTRICTOR NIPPLE 1/4" BSPT 0.5MM ORIFICE	2
6	GA3500203	HYDRAULIC ADAPTOR, REDUCING BUSH, 1/2" BSPT MALE X 1/4" BSPT FEMALE, S24-0804	2
7	GA3500332	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL	2
8	GA3500199	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPP FEMALE	3
9	GA3500328	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL	1

## 24-36m Cylinder - Boom Lift



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500682	HYDRAULIC CYLINDER, DISPLACEMENT, 3" BORE, 2.5" ROD 21" STROKE, 1 1/2" PIN EYES	1
2	GA1700027	BEARING, GLACIER BUSH, 1 1/2" ID X 1" LONG	4
3	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
4	GA5000835	VALVE, BALL, HYDRAULIC, 1/2" FEMALE THREAD INLET / OUTLET	1
5	GA3500349	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 3/4" UN MALE O-RING	1
6	GA3500223	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPT MALE	1

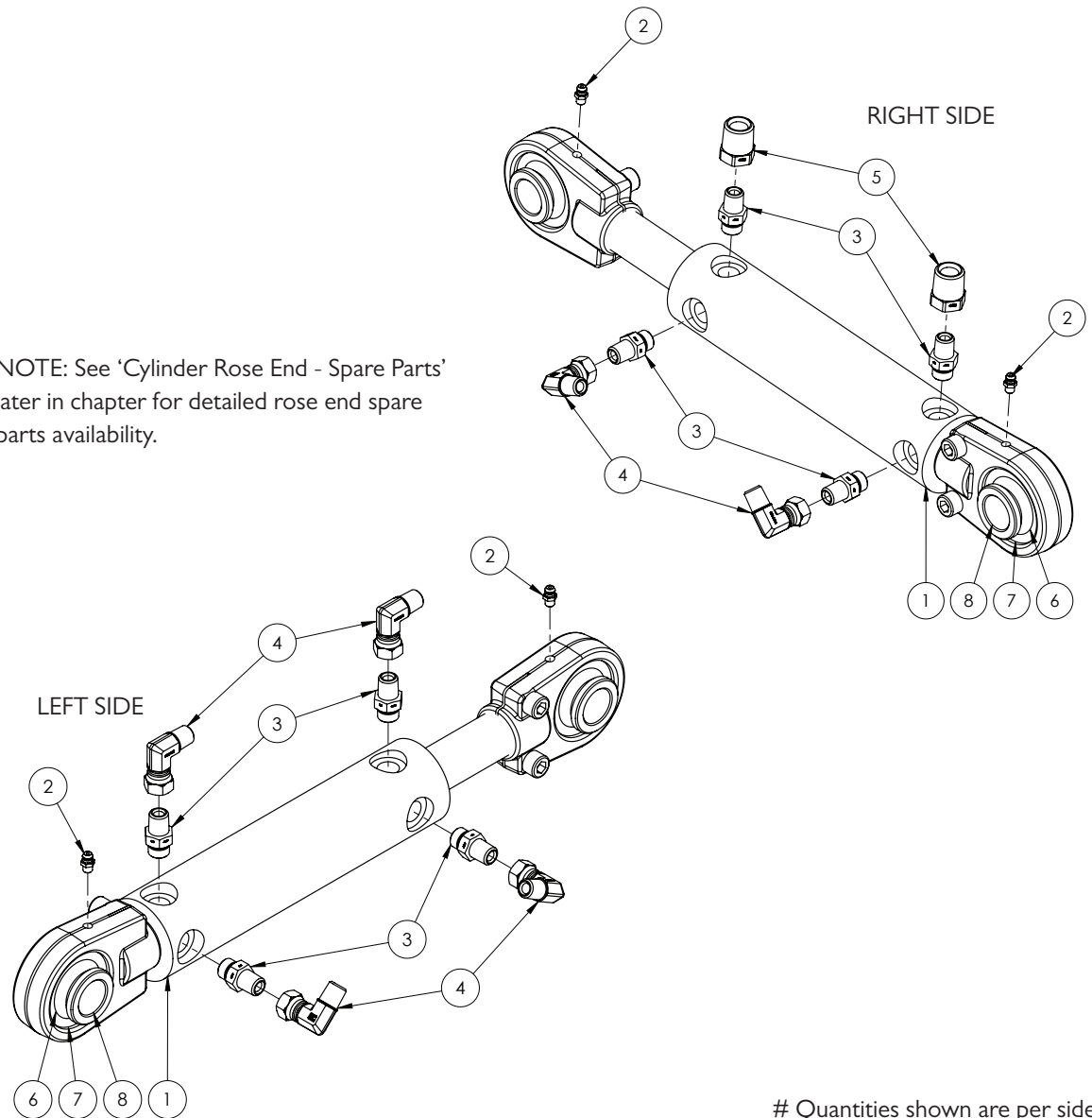
## 48m Cylinder - Boom Lift



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5052731	SEAL KIT, SUIT 3" BORE X 2 1/2" ROD	-
1	GA3500593	HYDRAULIC CYLINDER, DISPLACEMENT, 3" BORE, 2.5" ROD, 26" STROKE SUIT 1.5" PINS	1
2	GA1700027	BEARING, GLACIER BUSH, 1 1/2" ID X 1" LONG	4
3	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
4	GA3500349	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 3/4" UN MALE O-RING	1
5	GA5000835	VALVE, BALL, HYDRAULIC, 1/2" FEMALE THREAD INLET / OUTLET	1
6	GA3500223	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPT MALE	1

## 24-36m Cylinder - Yaw

NOTE: See 'Cylinder Rose End - Spare Parts' later in chapter for detailed rose end spare parts availability.

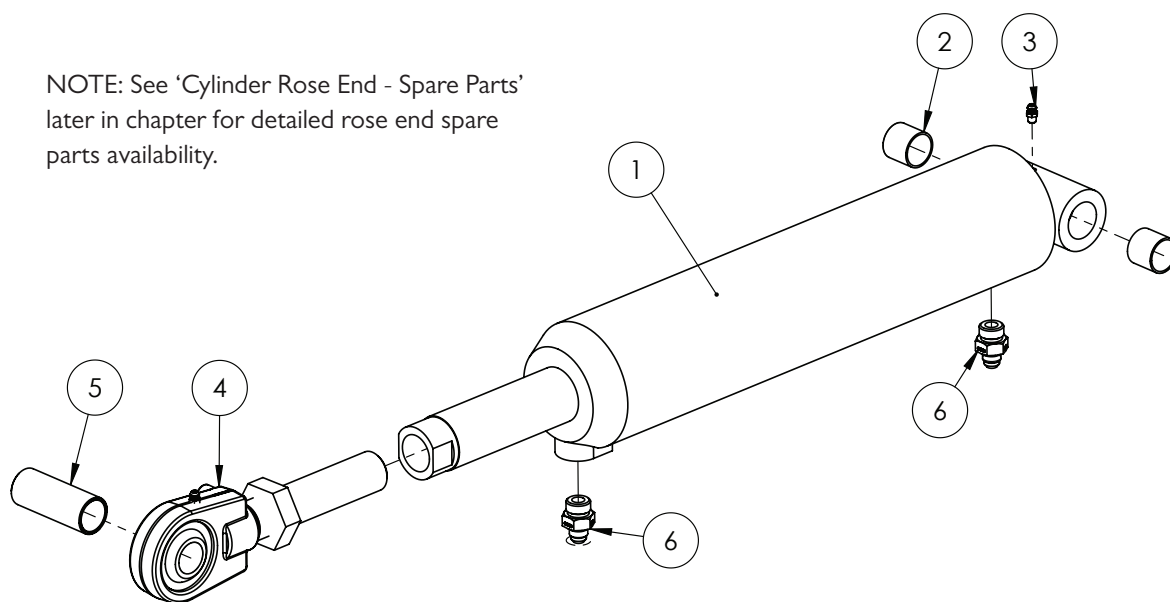


# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5052745	SEAL KIT, SUIT 2" BORE X 1 1/4" ROD, SUIT GA5060817	-
1	GA5060817	HYDRAULIC CYLINDER, 2" BORE X 1 1/4" ROD X 117.5MM STROKE, SPHERICAL BEARING ENDS	1
2	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
3	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	4
4	GA3500332	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL	4
5	GA3500203	HYDRAULIC ADAPTOR, REDUCING BUSH, 1/2" BSPT MALE X 1/4" BSPT FEMALE	2
6	GA5067605	BEARING, SUIT SCREW ON ROSE END	2
7	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END	2
8	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	2

## 24-36m Cylinder - Boom Tilt

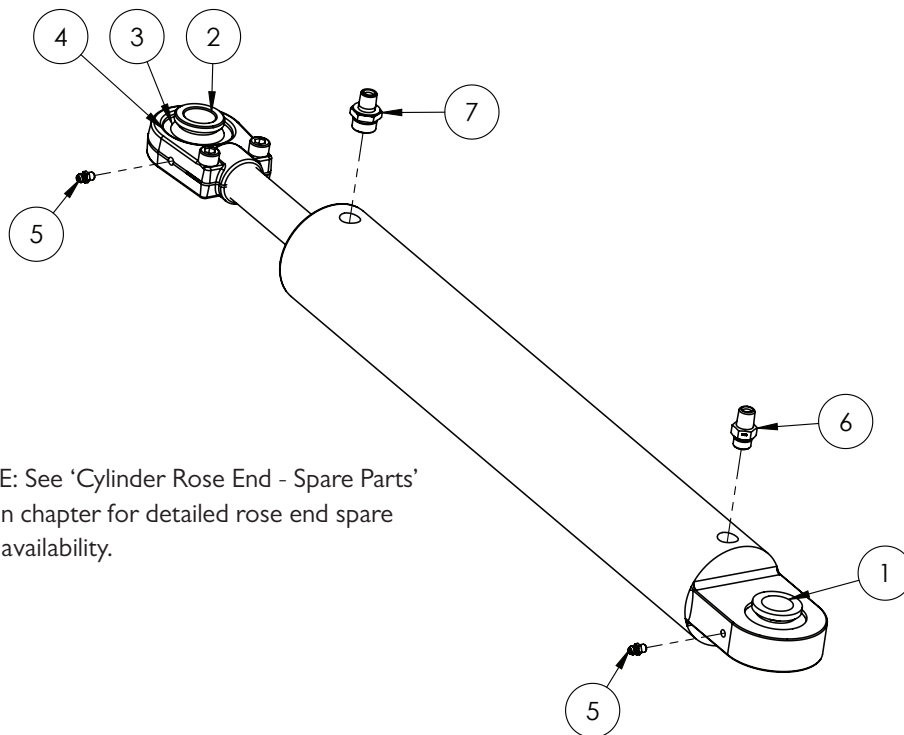
NOTE: See 'Cylinder Rose End - Spare Parts' later in chapter for detailed rose end spare parts availability.



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5052730	SEAL KIT, SUIT 3 1/2" BORE X 1 3/4" ROD	-
1	GA5065051	HYDRAULIC CYLINDER, 3 1/2" BORE X 1 3/4" ROD X 5" STROKE	1
2	GA5065487	GLACIER BUSH 1" ID X 1" LONG	2
3	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
4	GA5052761	HYDRAULIC TILT CYLINDER ADJUSTING ROD END, LARGE BALL END WITH NUT TO SUIT 3 1/2 X 5 TILT RAM GA5065051	1
	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	-
	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	-
5	GA4572535	BUSH, ROSE END PIVOT WIDE SUIT TILT RAM	1
6	GA3500147	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 3/4" UN MALE O-RING	2

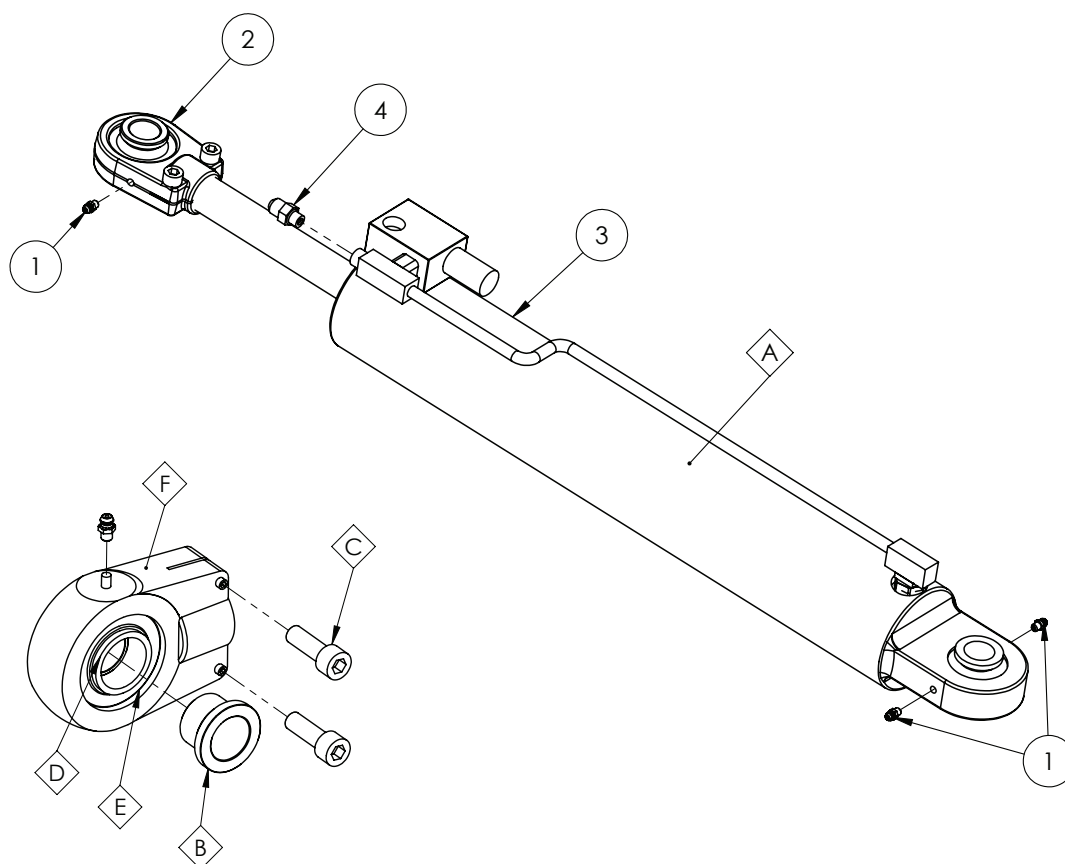
## 24-36m Cylinder - Boom Fold



NOTE: See 'Cylinder Rose End - Spare Parts' later in chapter for detailed rose end spare parts availability.

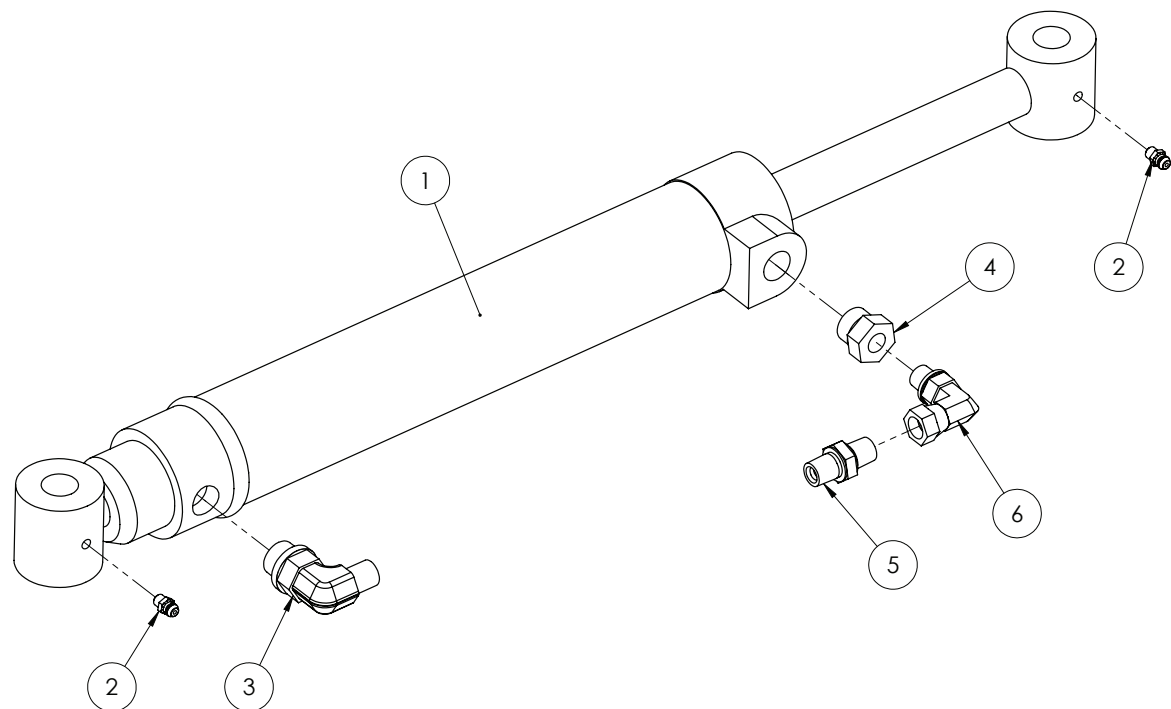
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5018538	30-36 M - HYDRAULIC CYLINDER, 3" BORE X 1 1/4" ROD X 18" STROKE	1
-	GA5018538	42 M - HYDRAULIC CYLINDER, 3" BORE X 1 1/4" ROD X 18" STROKE	2
-	GA5052680	SEAL KIT, SUIT 3" BORE X 1 1/4" ROD, SUIT CYLINDER GA5018538, GA5018540	-
-	GA3500808	SEAL KIT, HYDRAULIC CYLINDER, 3" X 1.25" ROD, SUIT PTE ONLY GA5018538 & GA5018540	-
-	GA3500098	ROD, SUIT HYDRAULIC FOLD CYLINDER GA5018538, GA5018540, GA5018542	-
1	GA5021930	LARGE BEARING BUSH, SUIT SCREW ON ROSE END	2
2	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	2
3	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	2
4	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	2
5	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
6	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	1
7	L068A	REDUCING RESTRICTOR NIPPLE, 3/4" UNO X 1/4" BSPT, 1.5MM ORIFICE	1

## 24-36m Cylinder - Boom Fold - External Phase



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA3501270	SEAL KIT, SUIT, HYDRAULIC CYLINDER, GA5018540, "MOTUS", SK300125	-
B	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END, HYPOWER, R-10424	2
C	GA5006131	SHCS M10 X 30 SS A2-70	2
D	GA5067605	BEARING, RADIAL SPHERICAL PLAIN, 30MM ID X 55MM OD X 32MM THICK, GEG 30 ES 2RS	1
E	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	2
F	GA5052966	SALES KIT, BEARING KIT, SUIT SCREW ON ROSE END, CYLINDERS AND DELTA LINKS	-
I	GA5012203	GREASE NIPPLE, SHORT, 1/4 UNF, MACH0207	3
2	GA5052965	HEAVY DELTA LINK ROSE END	1
3	GA5018540	HYDRAULIC CYLINDER, BORE 3", ROD 1.25", STROKE 18", EXTERNAL PHASING	1
4	GA3500354	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 7/16" UN MALE O-RING	1

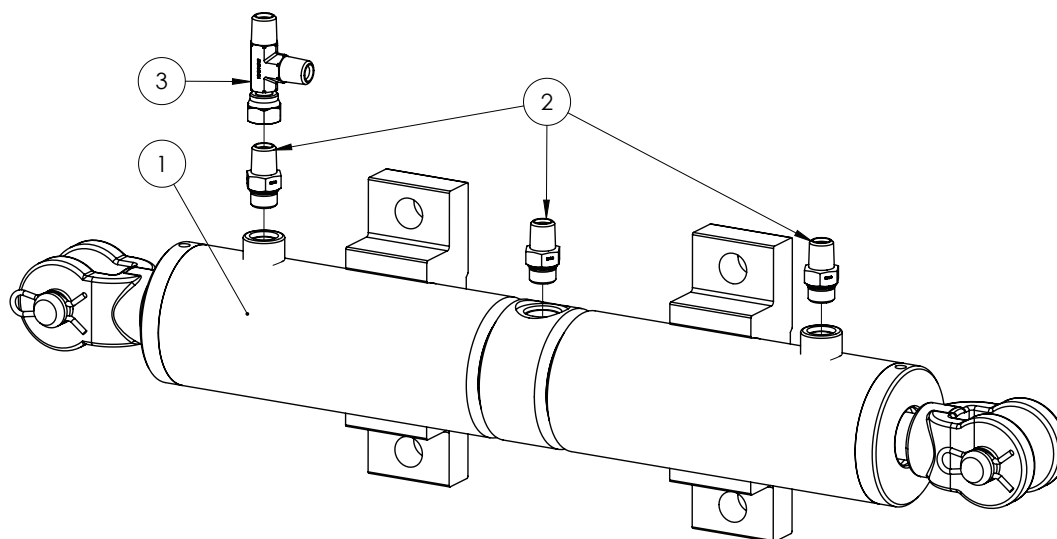
# 24-36m Cylinder - Bi-Fold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5021010	HYDRAULIC CYLINDER, 2" BORE X 1" ROD X 10" STROKE	1
2	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	2
3	GA3500348	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	1
4	GA3500340	HYDRAULIC ADAPTOR, REDUCING BUSH, 1/4" BSPT FEMALE X 3/4" UN MALE O-RING	1
5	GA4562025	RESTRICTOR NIPPLE 1/4" BSPT 0.5MM ORIFICE	1
6	GA3500195	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPP MALE O-RING X 1/4" BSPP FEMALE SWIVEL	1
-	GA5052755	SEAL KIT, SUIT 2" BORE X 1" ROD	-

## 24-36m Cylinder - Centre Leveling

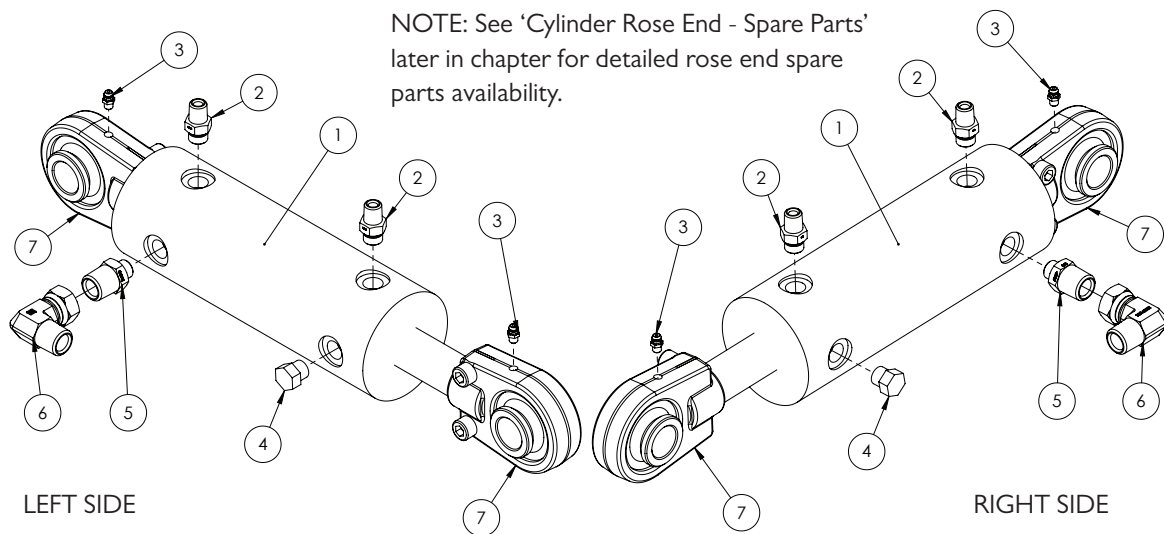
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500477	HYDRAULIC CYLINDER, CENTRE LEVEL	1
2	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	3
3	GA3500199	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPP FEMALE	1

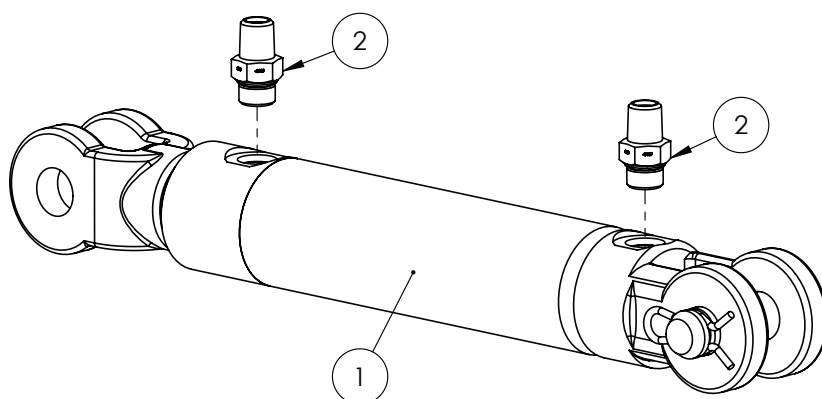


## 48m Cylinder - Yaw



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	4
-	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	4
-	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	8
-	GA5052732	SEAL KIT, SUIT 3" BORE X 1 1/4" ROD, SUIT GA5060818	-
1	GA5060818	HYDRAULIC CYLINDER, 3" BORE X 1 1/4" ROD X 117.5 MM STROKE, WITH BEARING ENDS	2
2	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	4
3	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	4
4	GA3500380	HYDRAULIC ADAPTOR, PLUG, 9/16" UN MALE O-RING	2
5	GA3500362	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 9/16" UN MALE O-RING	2
6	GA3500333	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
7	GA5052965	BEARING, ROSE END HOUSING, M28 SCREW ON, SUIT HYDRAULIC CYLINDER AND DELTA LINK, NO BUSHES	4
	GA5052965	BEARING, SCREW ON ROSE END, INC BUSHES, CLIPS	-
	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	-
	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	-
	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	-

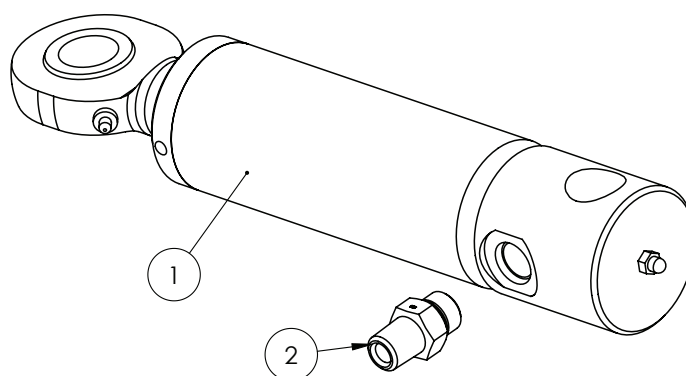
## 48m Cylinder - Boom Catch Arm



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500601	HYDRAULIC CYLINDER , DOUBLE ACTING, 1.5" BORE, 0.875" ROD, 4" STROKE	1
2	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	2

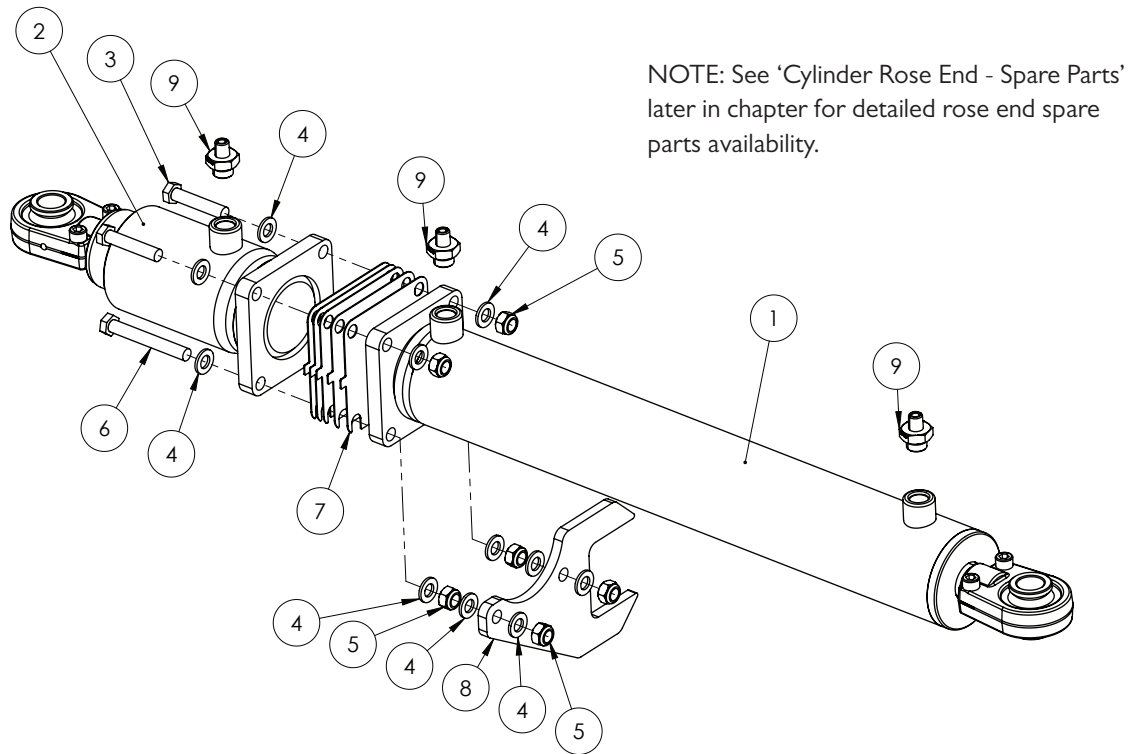
## 48m Cylinder - Boom Mid Catch



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500480	HYDRAULIC CYLINDER, BORE 1.5", ROD 0.875", STROKE 28MM, DISPLACEMENT, SPRING RETURN	1
2	GA3500358	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	2

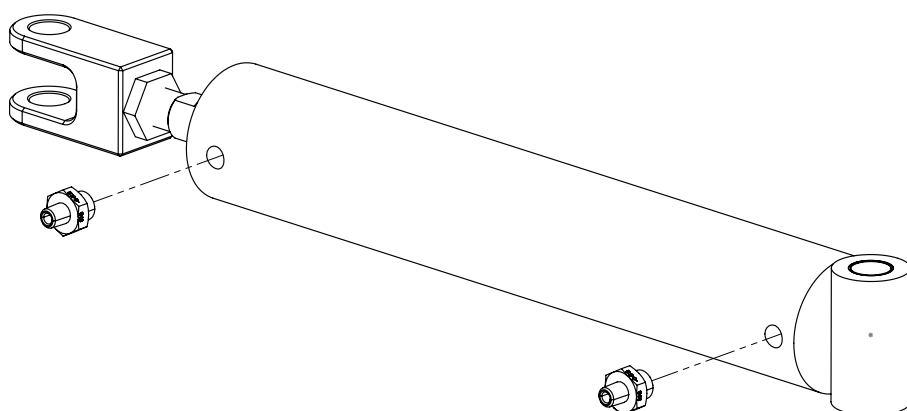
## 48m Cylinder - First Fold



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	2
-	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	2
-	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END	4
-	GA5052965	BEARING, ROSE END HOUSING, M28 SCREW ON, SUIT HYDRAULIC CYLINDER AND DELTA LINK, NO BUSHES	2
1	GA3500655	HYDRAULIC CYLINDER, DOUBLE ACTING, 3.25" BORE, 1.25" ROD, FLANGE BASE MOUNT, 1" ROSE END	1
2	GA3500656	HYDRAULIC CYLINDER, DISPLACEMENT (CUSHION), 3.25" BORE, 3" ROD, FLANGE BASE MOUNT, 1" ROSE END	1
3	GA5000335	BOLT M12 X 60 GR8.8 ZP	2
4	GA5000577	WASHER 12MM FLAT SS HD	12
5	GA5012461	NUT M12 NYLOC ZP	6
6	GA5011263	BOLT M12 X 90 GR8.8 ZP	2
7	GA4500975	PLATE, SHIM, IMM, FOLD CYLINDER, 48M BOOM - SPECIFY QTY. REQUIRED	-
8	GA5073235	ANTI ROTATION BRACKET, HYDRAULIC FOLD CYLINDER	1
9	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	3

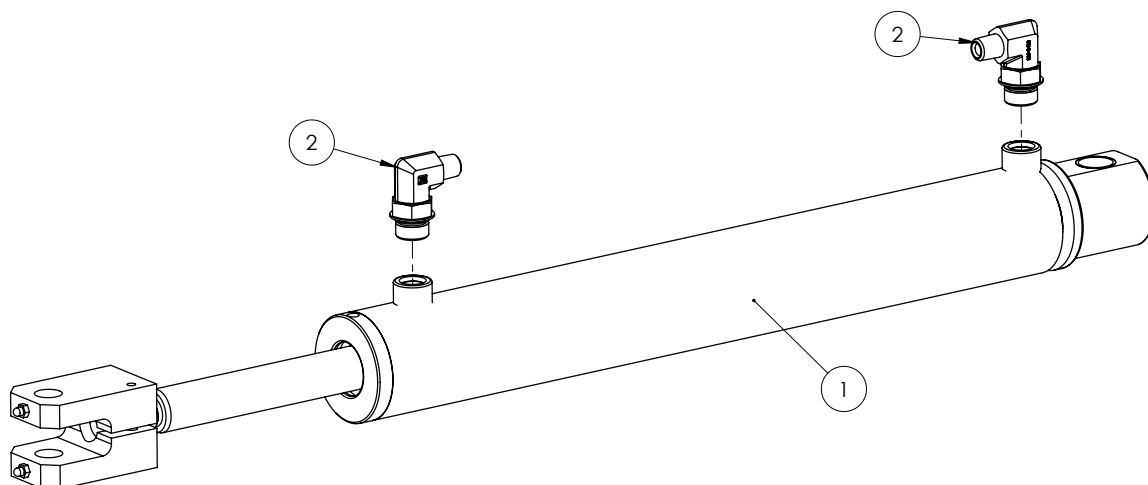
## 48m Cylinder - Second Fold



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500060	HYDRAULIC CYLINDER, BORE 2.5", ROD 1.25", STROKE 400 MM	1
2	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	2

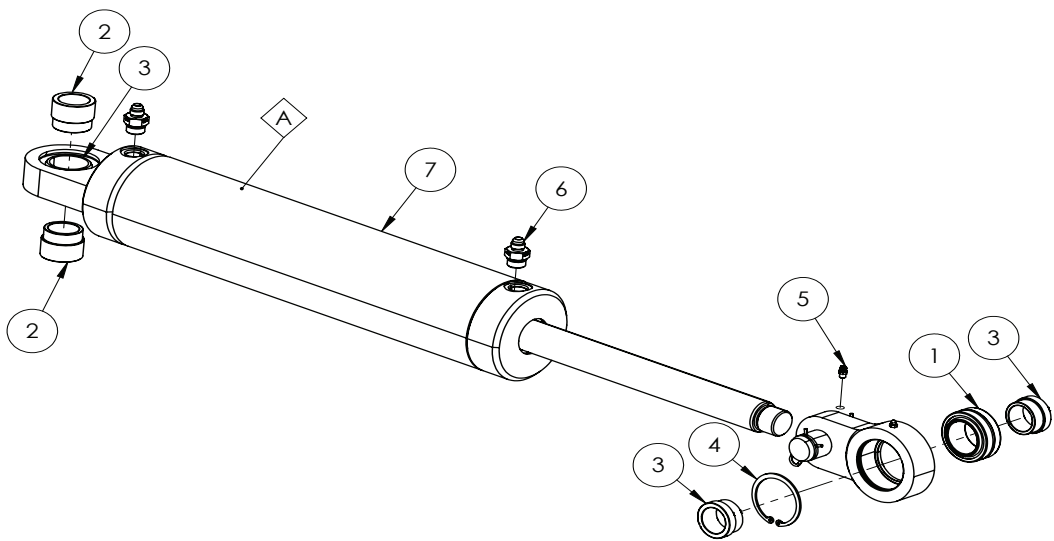
## 48m Cylinder - Third Fold



# Quantities shown are per side.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500476	HYDRAULIC CYLINDER, BORE 2", ROD 1", STROKE 395MM	1
2	GA3500348	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	2

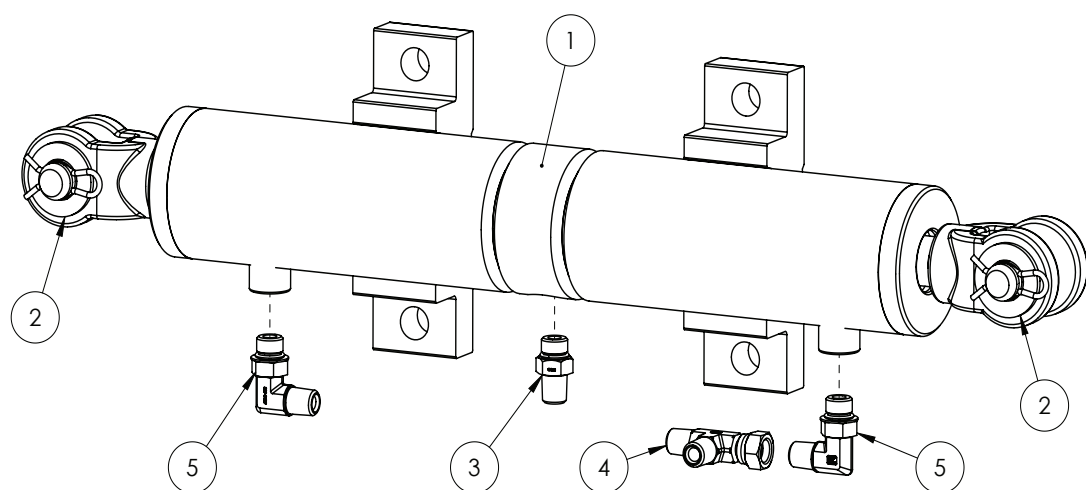
# 48m Cylinder - Boom Tilt



# Quantities shown are per side.

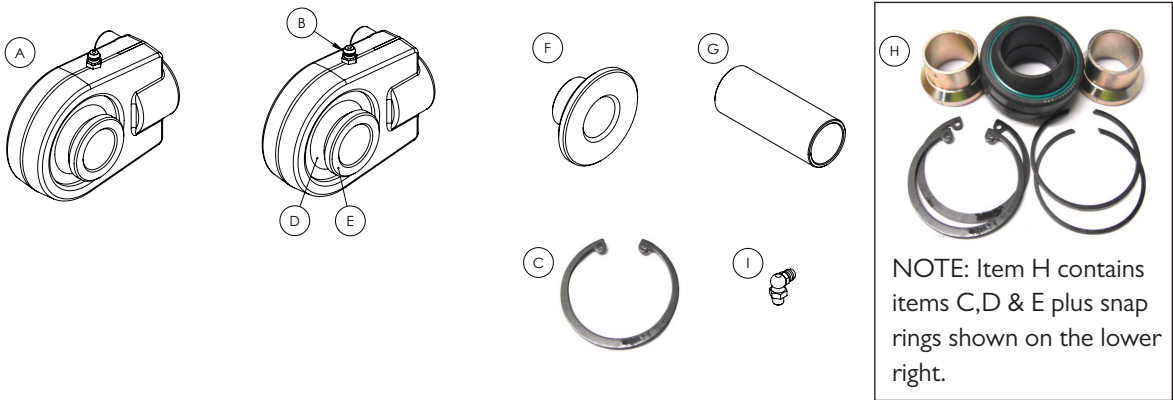
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA3500669	SEAL KIT, HYDRAULIC CYLINDER, SUIT GA3500478, EUREKA ENGINEERED PRODUCTS	
1	GA1700029	BEARING, BALL END, 40MM, GE40ES-2RS	1
2	GA4551640	BUSH, SPACER, BALL END, BASE, TILT CYLINDER	2
3	GA4551645	BUSH, SPACER, BALL END, ROD, TILT CYLINDER	2
4	GA5010573	CIRCLIP, INTERNAL, SUIT 55MM BORE	1
5	GA5012203	GREASE NIPPLE, SHORT, 1/4 UNF, MACH0207	2
6	GA3500147	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 3/4" UN MALE O-RING, S90-0912	2
7	GA3500478	HYDRAULIC CYLINDER, BORE 4", ROD 1.5", STROKE 200MM	1

## 48m Cylinder - Centre Leveling



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500477	HYDRAULIC CYLINDER, CENTRE LEVEL	1
2	GA5001741	WASHER 20MM FLAT SS HD	4
3	GA3500359	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/4" UN MALE O-RING	1
4	GA3500199	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPP FEMALE	1
5	GA3500347	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 9/16" UN MALE O-RING	2

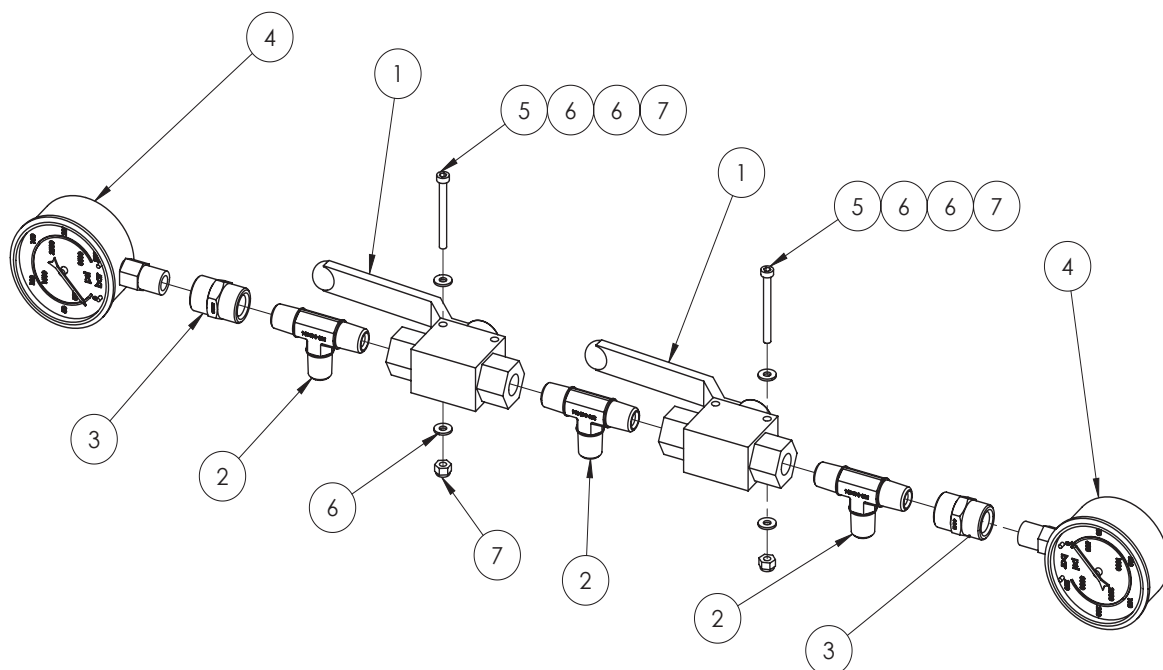
# Cylinder Rose End - Spare Parts



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
A	GA5052965	COMPLETE ROSE END, M28 SCREW ON, SUIT HYDRAULIC CYLINDER & DELTA LINK, INCLUDING BUSHES (ITEM E)	1
B	GA5012203	GREASE NIPPLE, SHORT, 1/4" UNF	1
C	GA5067610	CIRCLIP, SUIT BEARING SCREW ON ROSE END, RTW 55	2
D	GA5067605	BEARING, SUIT SCREW ON ROSE END, GEG 30 ES 2RS	1
E	GA5021925	SMALL BEARING BUSH, SUIT SCREW ON ROSE END, HYPOWER, R-10424	2
F	GA5021930	LARGE BEARING BUSH, SUIT SCREW ON ROSE END, HYPOWER, R-10429	2
G	GA4572535	BUSH, ROSE END PIVOT WIDE SUIT TILT RAM	1
H	GA5052966	BEARING KIT, SUIT SCREW ON ROSE END, CYLINDERS AND DELTA LINKS	1
I	GA5009637	GREASE NIPPLE, ELBOW, 90 DEGREE, 1/4" UNF MALE	1

NOTE: Quantities shown represent the number of parts needed per rose end and depend on your configuration e.g. the rose end will have either 2x Item E or 2x Item F but not both.

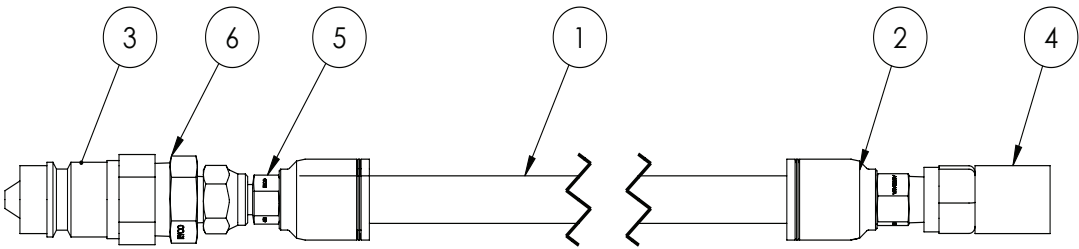
## Yaw Control Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078083	VALVE, BALL, HYDRAULIC, 1/4" BSPP FEMALE PORTS	2
2	GA3500269	HYDRAULIC ADAPTOR, TEE, 1/4" BSPT MALE X 1/4" BSPT MALE X 1/4" BSPT MALE	3
3	GA3500211	HYDRAULIC ADAPTOR, SOCKET, 1/4" BSPT FEMALE X 1/4" BSPT FEMALE	2
4	GA5078076	GAUGE, PRESSURE, 250 BAR, 3500PSI	2
5	GA5049800	SHCS M4 X 40 GR12.9 ZP	2
6	GA5020510	WASHER 4MM FLAT SS	4
7	GA5003501	NUT M4 NYLOC ZP	2

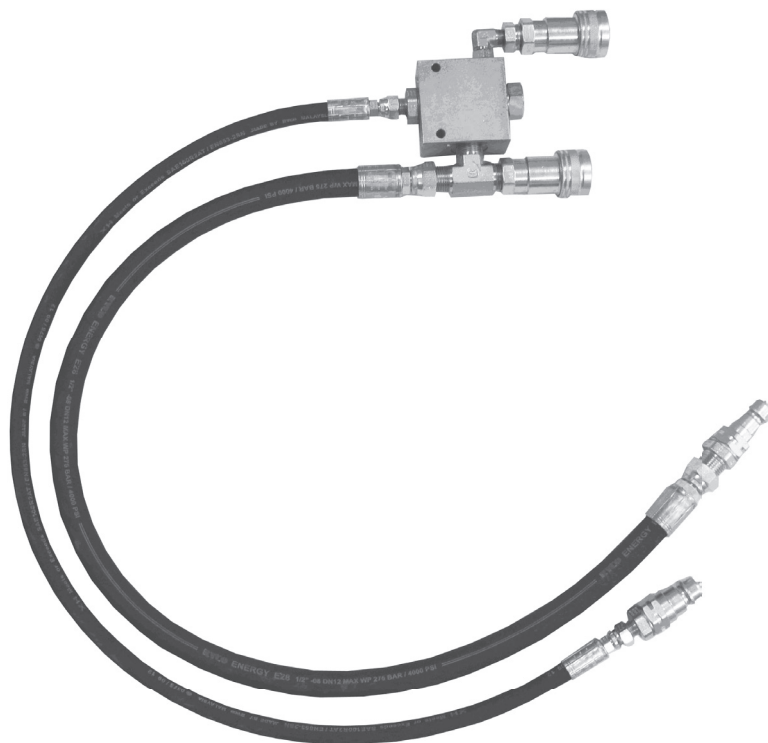


# Yaw Charge Line



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4903220	HOSE ASSEMBLY CHARGE / DISCHARGE LINE FOR HYDRAULIC YAW SUSPENSION	-
1	GA5049695	HOSE, HYDRAULIC, 1/4", 2 WIRE, BLACK	1
2	GA3500394	HYDRAULIC CRIMP COUPLING, STRAIGHT, 1/4" HOSE X 1/4" BSPT MALE	1
3	GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD	1
4	GA5077350	ADAPTOR, DIRECT GAUGE, M16 X 2.0 FEMALE X 1/4" BSPP FEMALE	1
5	GA3500397	HYDRAULIC CRIMP COUPLING, STRAIGHT, 1/4" HOSE X 1/4" BSPP FEMALE SWIVEL	1
6	GA3500221	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/4" BSPT MALE	1

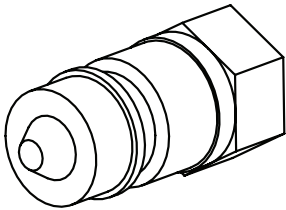
## Load Sense Turbo Valve



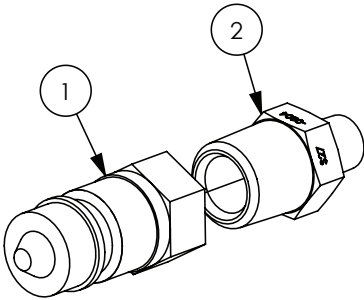
GA4902590	COMPLETE ASSEMBLY	
PART NUMBER	DESCRIPTION	QTY.
GA5047677	LOAD SENSE TURBO VALVE	1
GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD	2
GA5078001	QUICK RELEASE COUPLING, BALL CHECK VALVE, PUSH/PULL, FEMALE BODY, 1/2" BSPP FEMALE	2
GA3500308	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/2" BSPP MALE	2
GA3500270	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPT MALE	1
GA3500399	HYDRAULIC CRIMP COUPLING, STRAIGHT, 1/2" HOSE X 1/2" BSPP FEMALE SWIVEL	2
GA3500397	HYDRAULIC CRIMP COUPLING, STRAIGHT, 1/4" HOSE X 1/4" BSPP FEMALE SWIVEL	2
GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	1
GA3500320	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP MALE O-RING	1
GA3500203	HYDRAULIC ADAPTOR, REDUCING BUSH, 1/2" BSPT MALE X 1/4" BSPT FEMALE	1
GA3500182	HOSE, HYDRAULIC, 1/2"	1
GA5049695	HOSE, HYDRAULIC, 1/4", 2 WIRE, BLACK	1

# Quick Release Couplings

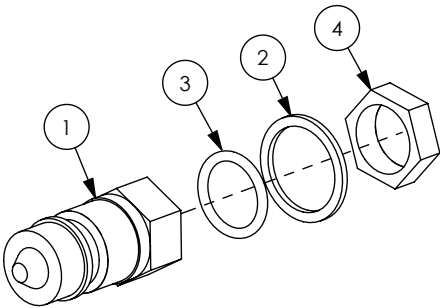
1/2" HYDRAULIC LINES		
ITEM	PART NO	DESCRIPTION
1	GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD



1/4" HYDRAULIC LINES		
ITEM	PART NO	DESCRIPTION
1	GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD
2	GA3500221	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSP X 1/4" BSP

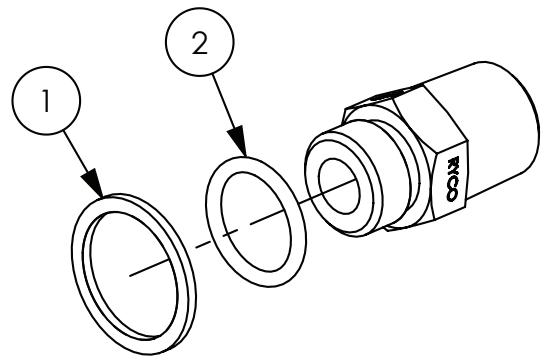


HYDRAULIC PUMP LINES		
ITEM	PART NO	DESCRIPTION
1	GA5078000	QUICK CONNECT FITTING, 1/2" MALE TIP X 1/2" FEMALE THREAD
2	GA5076891	RING RETAINING BSPP 1/2"
3	GA5078121	1/2" HYDRAULIC O-RING
4	35B-08	1/2" BSPP LOCK NUT



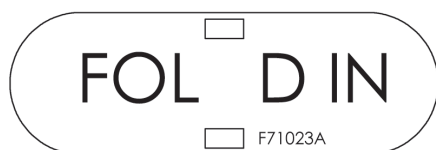
NOTE: Plastic Cover for when fittings are not in use: GA5052365.

# Hydraulic O-rings & Retaining Washers



ITEM	PART NO	DESCRIPTION
1	GA5076889	RING RETAINING 1/4" BSPP
	GA5076890	RING RETAINING BSPP 3/8"
	GA5076891	RING RETAINING BSPP 1/2"
	GA5076892	RETAINING RING BSPP 3/4"
2	GA5078119	O-RING BSPP 1/4"
	GA5078120	O-RING 3/8" BSPP
	GA5078121	O-RING BSPP 1/2"
	GA5078122	O-RING BSPP 3/4"

## Hydraulic Hose ID Tags



PART NUMBER	DESCRIPTION
F71023A	ID TAG FOR FOLD IN
F71024A	ID TAG FOR FOLD OUT
F71025A	ID TAG FOR BOOM RAISE/LOWER
F70134A	ID TAG FOR LEFT HAND TILT
F70135A	ID TAG FOR RIGHT HAND TILT
F71018A	ID TAG FOR BI-FOLD IN
F71019A	ID TAG FOR BI-FOLD OUT
F71020A	ID TAG FOR PRESSURE
F71021A	ID TAG FOR TANK
F71022A	ID TAG FOR LOAD SENSE
F71026A	ID TAG FOR BRAKES

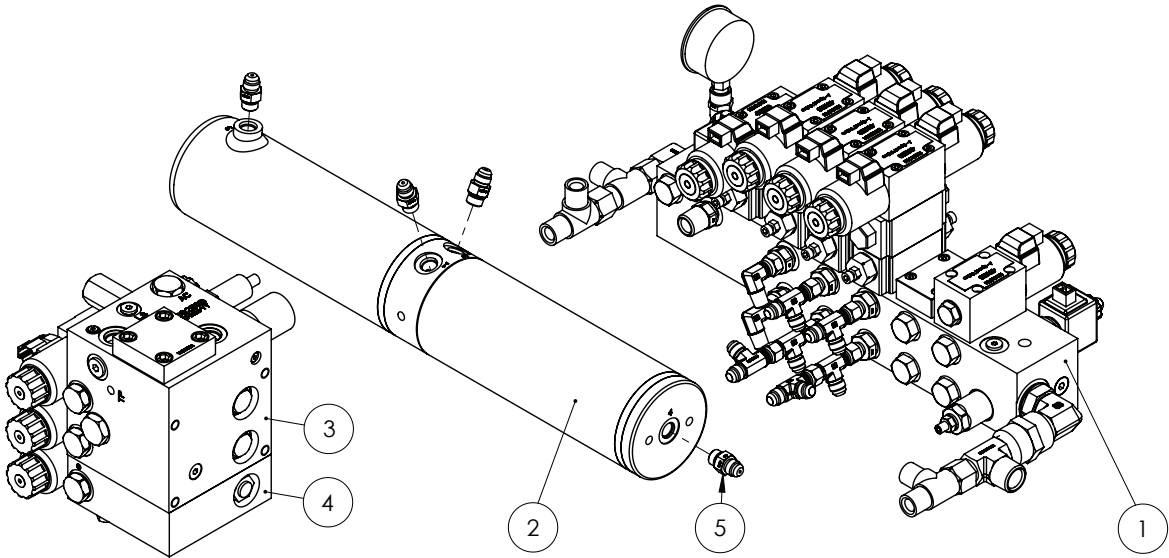
## Hydraulic Hoses

PART NUMBER	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

# Raw Hide & Spiral Guard

RAWHIDE	
PART NUMBER	DESCRIPTION
GA5053630	RAWHIDE HOSE PROTECTION 23MM
GA5053710	RAWHIDE HOSE PROTECTOR 31MM
GA5053640	RAWHIDE HOSE PROTECTION 36MM
GA5053705	RAWHIDE HOSE PROTECTOR 73MM
GA5053715	RAWHIDE HOSE PROTECTOR 56MM
GA5066710	RAWHIDE HOSE PROTECTION 93MM
GA5054375	RAWHIDE, NYLON SLEEVE, 102MM, HOOK & LOOP CLOSURE

# NORAC Assembly

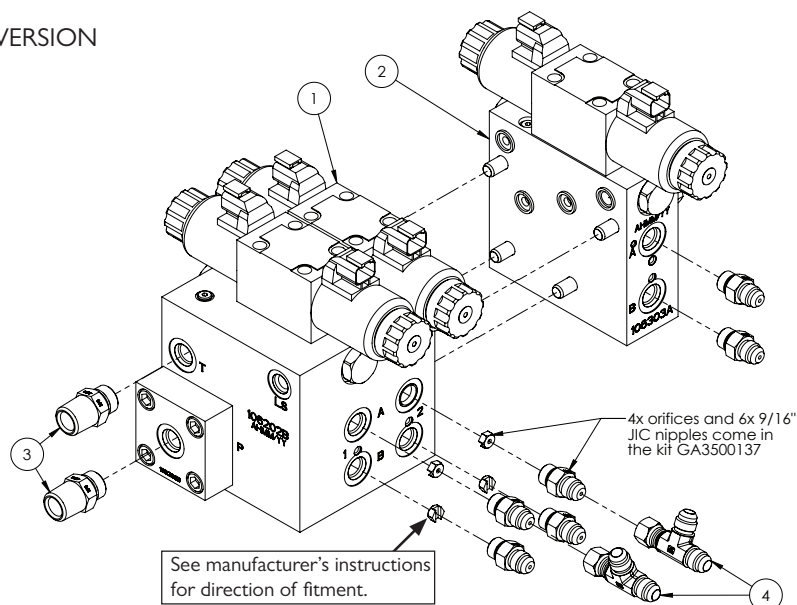


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	*	SPOOL VALVE MANIFOLD	1
2	GA3500136	HYDRAULIC CYLINDER, WING ROLL WITH POSITION SENSOR, NORAC	1
3	GA3500138	VALVE BLOCK, 2 STATION ASSEMBLY, OPEN CENTRE, PROPORTIONAL, DT 4 BOLT	1
	GA3500164	VALVE BLOCK, 2 STATION ASSEMBLY, CLOSED CENTRE, LOAD SENSE, DT 4 BOLT	1
4	GA3500139	VALVE BLOCK, EXPANSION ASSEMBLY, DPOC PROP DT 4 BOLT, NORAC	1
5	GA3500146	HYDRAULIC ADAPTOR, NIPPLE, 9/16" JIC MALE X 9/16" UN MALE O-RING	4

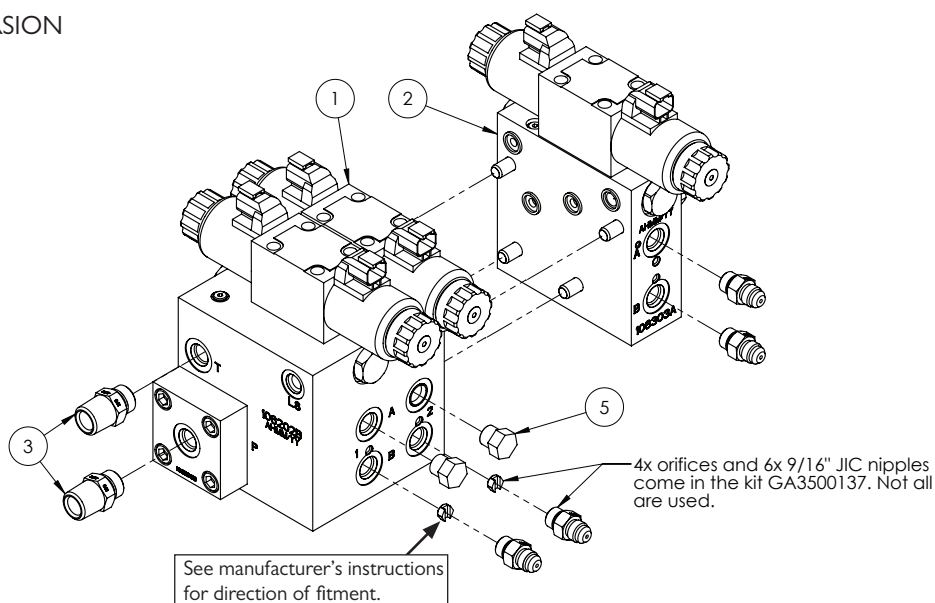
\* Sub-assembly on following pages

# NORAC Valve Block

36-42M VERSION

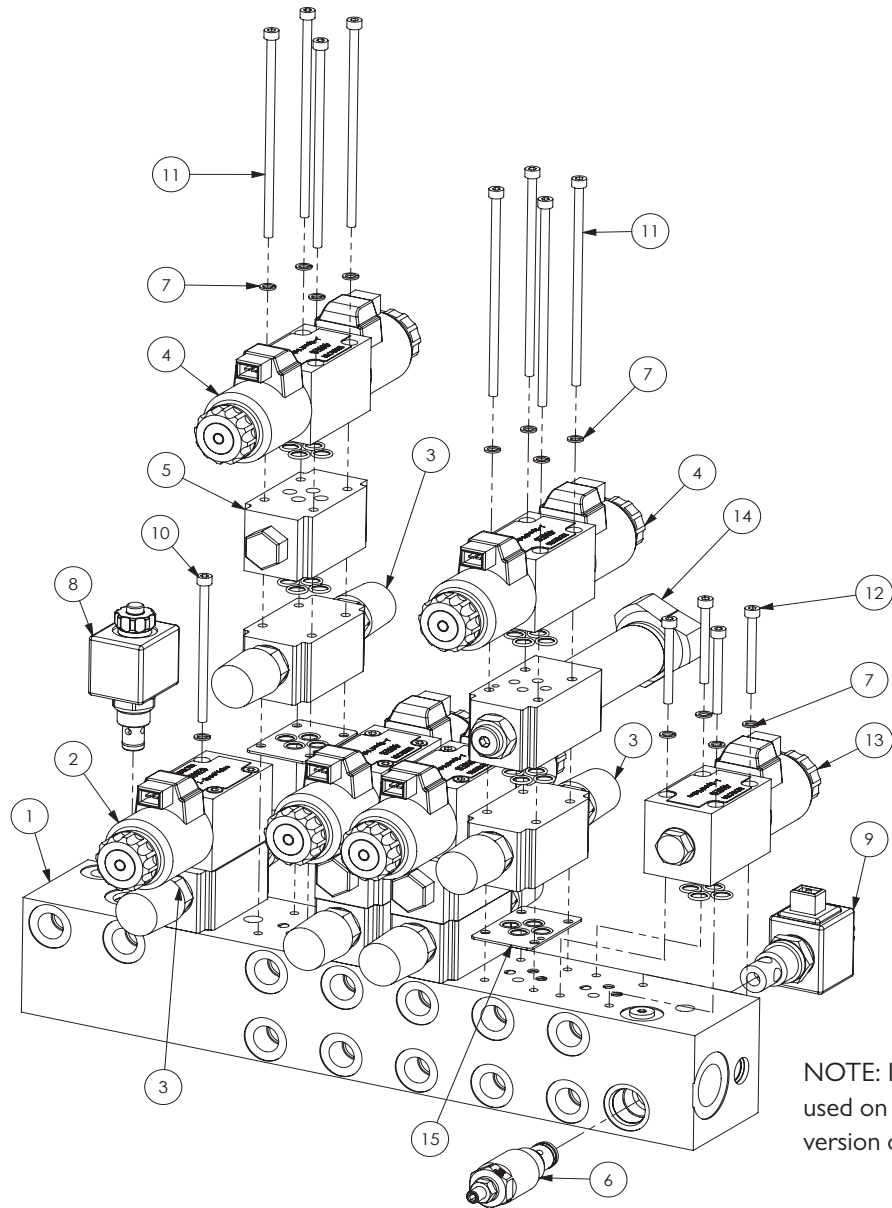


48M VERSION



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA3500137	HYDRAULIC FITTING KIT, 12 PARTS, GNI, NORAC	-
1	GA3500164	VALVE BLOCK, 2 STATION ASSEMBLY, CLOSED CENTRE, LOAD SENSE, DT 4 BOLT	1
2	GA3500139	VALVE BLOCK, EXPANSION ASSEMBLY, DPOC PROP DT 4 BOLT, NORAC	1
3	GA3500363	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/4" UN MALE O-RING	2
4	GA3500144	HYDRAULIC ADAPTOR, TEE, 9/16" JIC MALE X 9/16" JIC MALE X 9/16" JIC FEMALE SWIVEL	2
5	GA3500380	HYDRAULIC ADAPTOR, PLUG, 9/16" UN MALE O-RING	2

## 24-36m Spool Valve Manifold Assembly



NOTE: Item 6 only used on open centre version of manifold.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5047750	SOLENOID COIL, 12V DC, SLIP ON, 2 PIN AMP	-
1	GA5047759	MANIFOLD, SIZE 6 PAR, SPECIAL BARE	1
2	GA5047727	VALVE HYDRAULIC, J SPOOL, 12V, SINGLE, 2 PIN AMP CONNECTOR, BOSCH	1
3	GA5047581	HYDRAULIC VALVE, FLOW CONTROL, NG6 A+B, SUIT SPOOL	5
4	GA5047726	VALVE SOLENOID J SPOOL 12V 2 PIN AMP CONNECTOR, BOSCH	4
5	GA5017335	MODULAR CHECK VALVE	3
6	GA5047645	CARTRIDGE VALVE, HYDRAULIC PRESSURE RELIEF, PILOT OPERATED - OC ONLY	1
7	GA5003629	WASHER 5MM SPRING SS	24

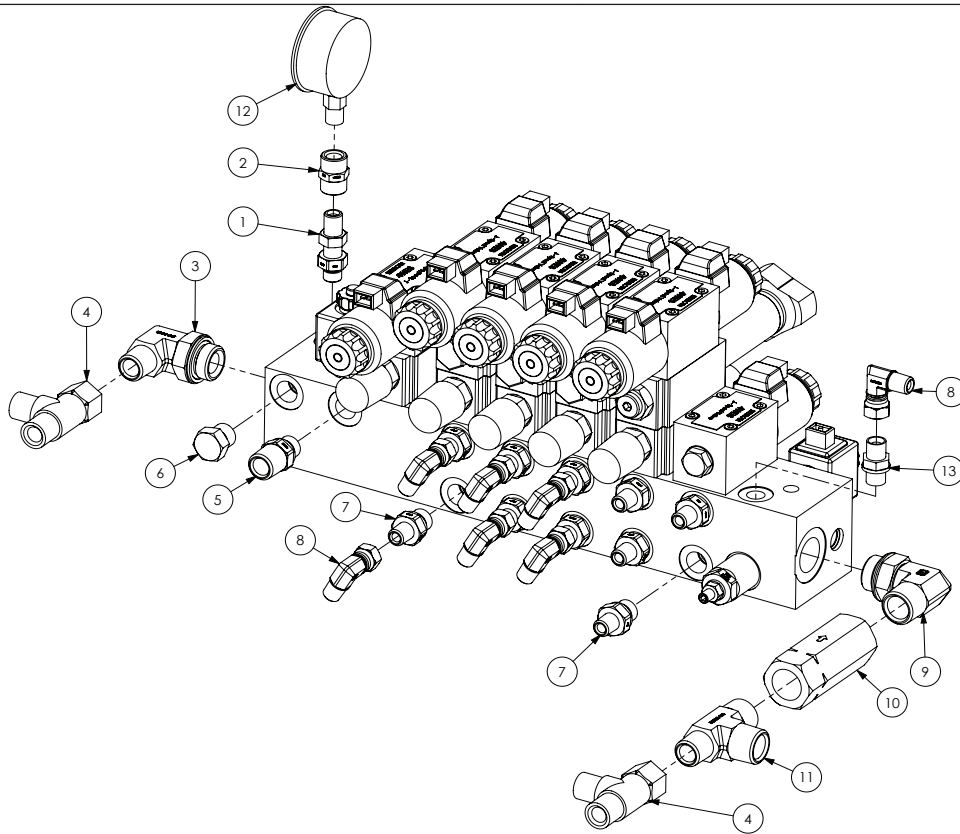
Continue Over Page

## 24-36m Spool Valve Manifold Assembly

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
8	GA5047734	VALVE CARTRIDGE, HYDRAULIC SOLENOID, POPPET 2/2-8-2 CAV 12VDC 2 PIN AMP, BOSCH	1
	GA5047737	VALVE CARTRIDGE, HYDRAULIC SOLENOID, AMP PLUG, 12V DC, OPEN CENTRE	1
9	GA5047738	VALVE CARTRIDGE, HYDRAULIC, POPPET, SOLENOID, AMP PLUG, 12V DC, NORMALLY CLOSED (USED FOR CLOSED CENTRE SYSTEM)	1
10	GA5067050	SHCS M5 X 90 ZP GR12.9	4
11	GA5048570	SHCS M5 X 130 ZP GR12.9	16
12	GA5054410	SHCS M5 X 50 ZP GR12.9	4
13	GA5047756	VALVE, D SPOOL HYDRAULIC SOLENOID, CENTRE LEVEL, 2 PIN AMP, BOSCH	1
14	GA5017373	VALVE REDUCING MODULAR	1
15	GA5047615	PLATE Z2FS6 O-RINGS (SPARE PART)	-

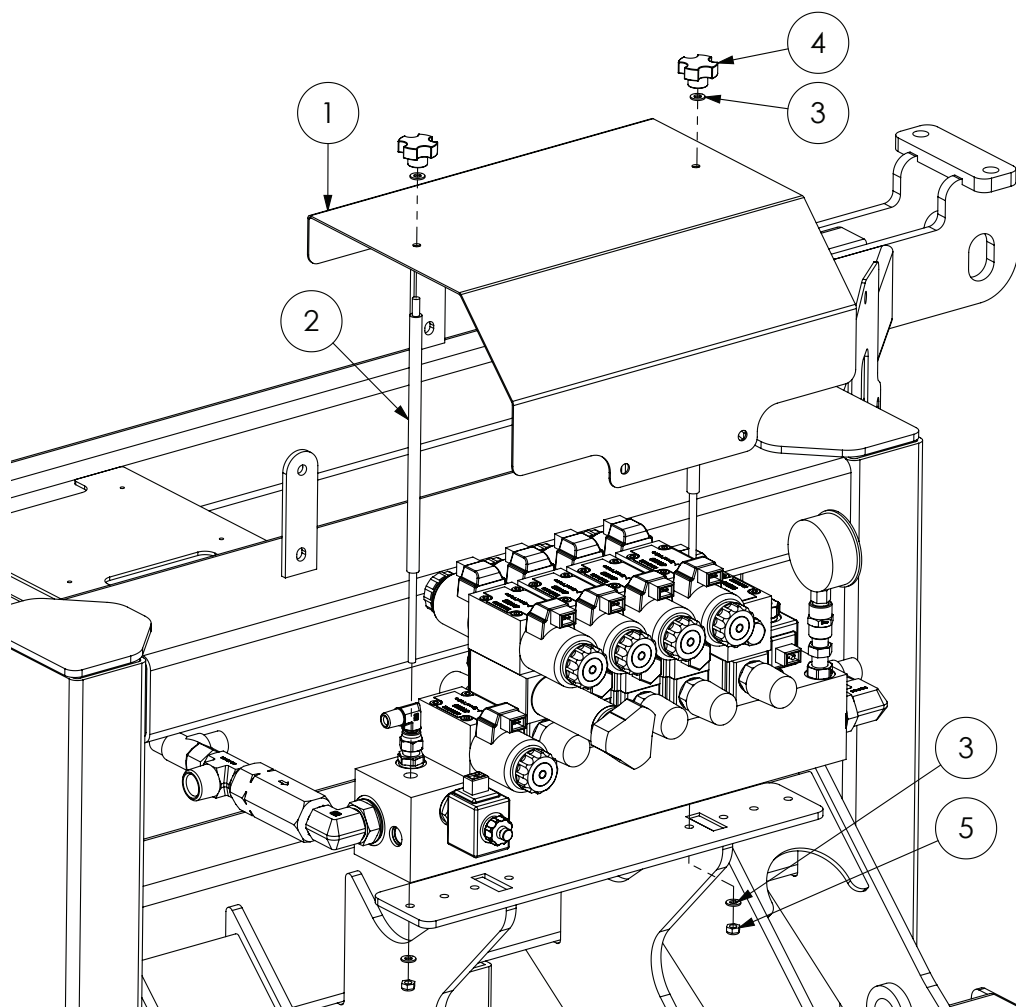


## 24-36m Spool Valve Manifold Fittings



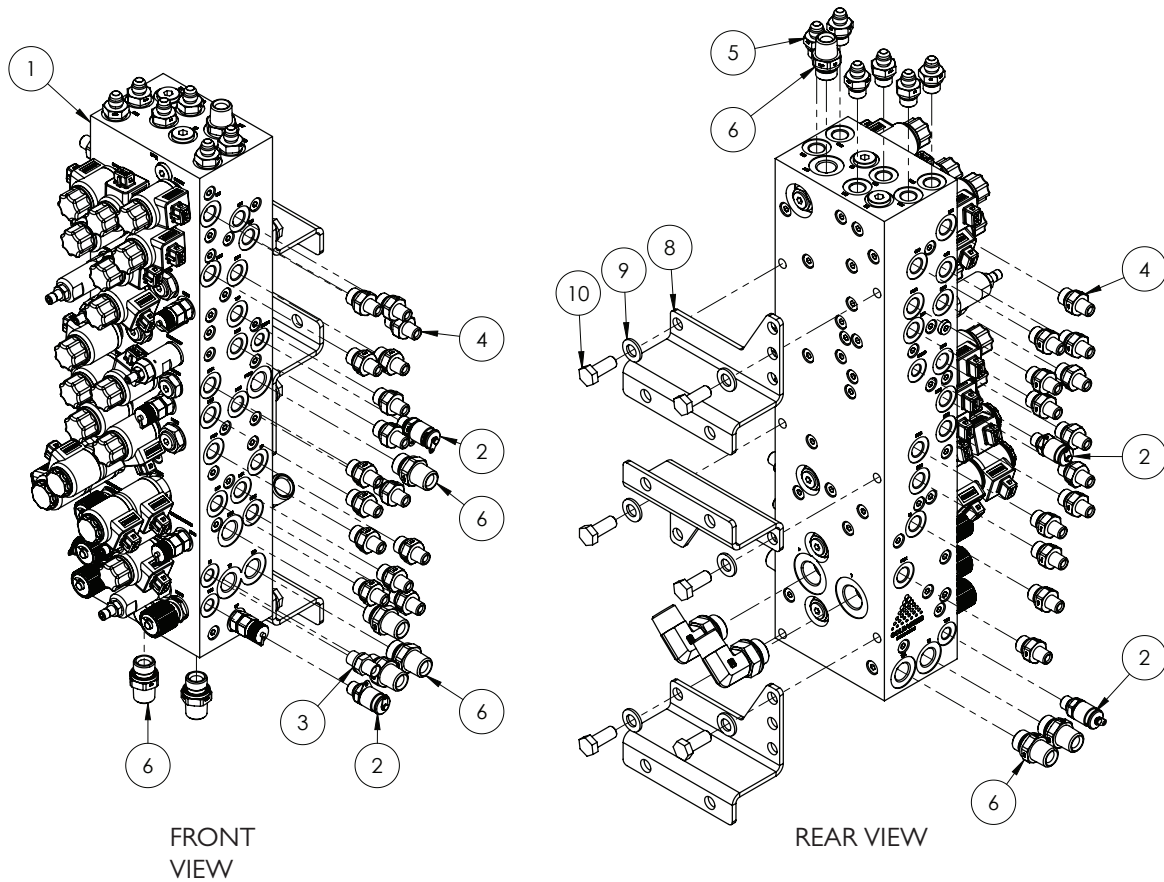
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500249	HYDRAULIC ADAPTOR, BULKHEAD NIPPLE, 1/4" BSPP MALE X 1/4" BSPP MALE	1
2	GA3500211	HYDRAULIC ADAPTOR, SOCKET, 1/4" BSPT FEMALE X 1/4" BSPT FEMALE	1
3	GA3500324	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/2" BSPT MALE X 3/4" BSPP MALE O-RING	1
4	GA3500200	HYDRAULIC ADAPTOR, TEE, 1/2" BSPT MALE X 1/2" BSPT MALE X 1/2" BSPP FEMALE SWIVEL	2
5	GA3500309	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 3/8" BSPP MALE	1
6	GA3500300	HYDRAULIC ADAPTOR, PLUG, 3/8" BSPP MALE	1
7	GA3500307	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/8" BSPP MALE	10
8	GA3500332	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 1/4" BSPT MALE X 1/4" BSPP FEMALE SWIVEL	7
9	GA3500325	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 3/4" BSPT MALE X 3/4" BSPP MALE O-RING	1
10	GA5002421	CHECK VALVE, HYDRAULIC, 0 BAR, 3/4" BSPP	1
11	GA3500272	HYDRAULIC ADAPTOR, TEE, 3/4" BSPT MALE X 1/2" BSPT MALE X 3/4" BSPT MALE	1
12	GA5021455	GAUGE, PRESSURE, 25000KPA, 3500PSI	1
13	GA3500306	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPP MALE	1

## 24-36m Spool Valve Mounting Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	COMP0013	SPOOL VALVE COVER, SUIT ADVANCE	1
2	MACH0035	MOUNTING BOLT, SUIT SOLENOID COVER	2
3	GA5004437	WASHER 6MM FLAT SS	4
4	GA5069870	KNOB, STAR GRIP M6 X 32 DIAMETER	2
5	GA5048115	NUT M6 NYLOC ZP	2

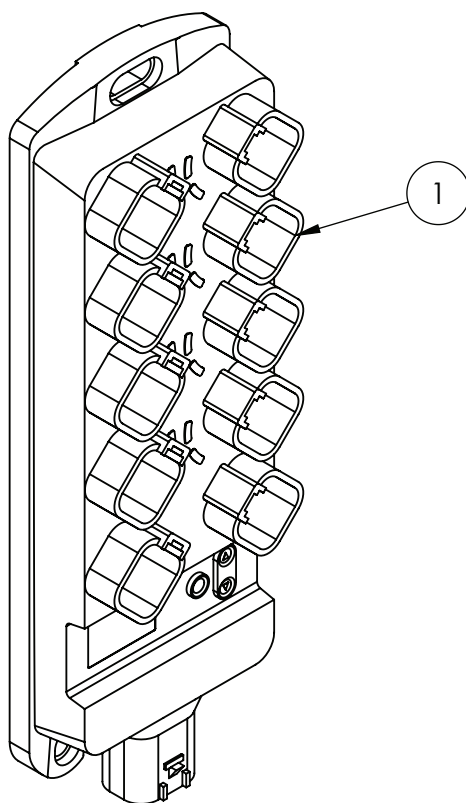
## 48m Hydraulic Control Manifold



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA3500603	HYDRAULIC CONTROL MANIFOLD, 48M BOOM	1
2	GA3500133	HYDRAULIC COUPLING, EASY TEST POINT, 1/4" BSPP	4
3	GA3500306	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 1/4" BSPP MALE	1
4	GA3500307	HYDRAULIC ADAPTOR, NIPPLE, 1/4" BSPT MALE X 3/8" BSPP MALE	28
5	GA3500145	HYDRAULIC ADAPTOR, NIPPLE, 3/8" BSPP MALE X 9/16" JIC MALE	6
6	GA3500310	HYDRAULIC ADAPTOR, NIPPLE, 1/2" BSPT MALE X 1/2" BSPP MALE	9
7	GA3500325	HYDRAULIC ADAPTOR, ELBOW, 90 DEGREE, 3/4" BSPT MALE X 3/4" BSPP MALE O-RING	2
8	GA4403645	PLATE, BRACKET, HYDRAULIC MANIFOLD BLOCK	3
9	GA5000577	WASHER 12MM FLAT SS HD	6
10	GA5000305	SET SCREW M12 X 30 GR8.8 ZP	6

## 48m Hydraulic Control PLC

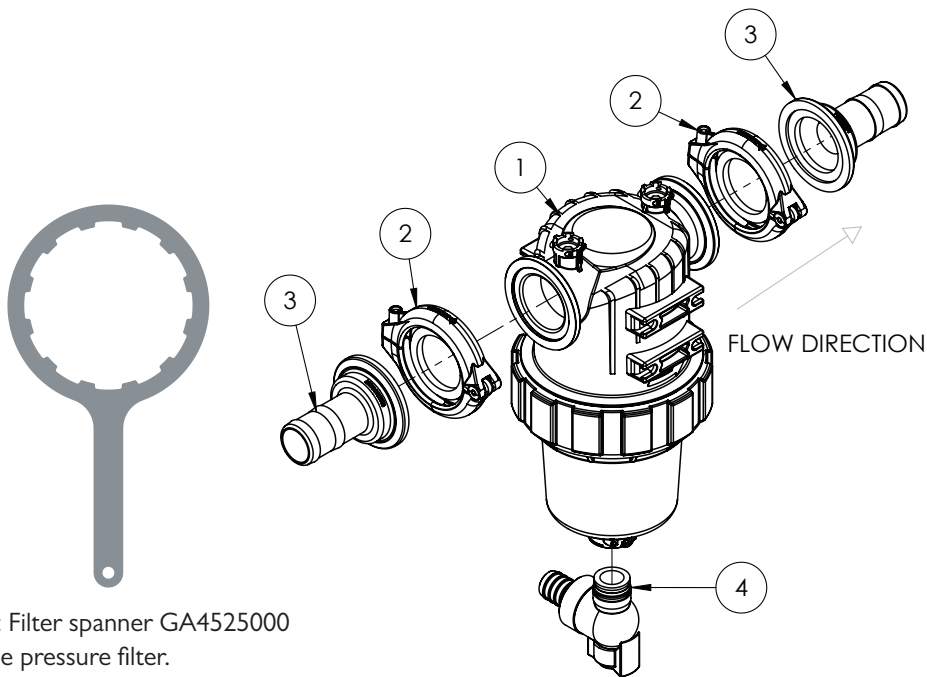
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
I	GA3000310	I/O MODULE, 8 OUTPUT CHANNELS, 8 INPUT CHANNELS	I

PLUMBING

Filter - 2" Pressure

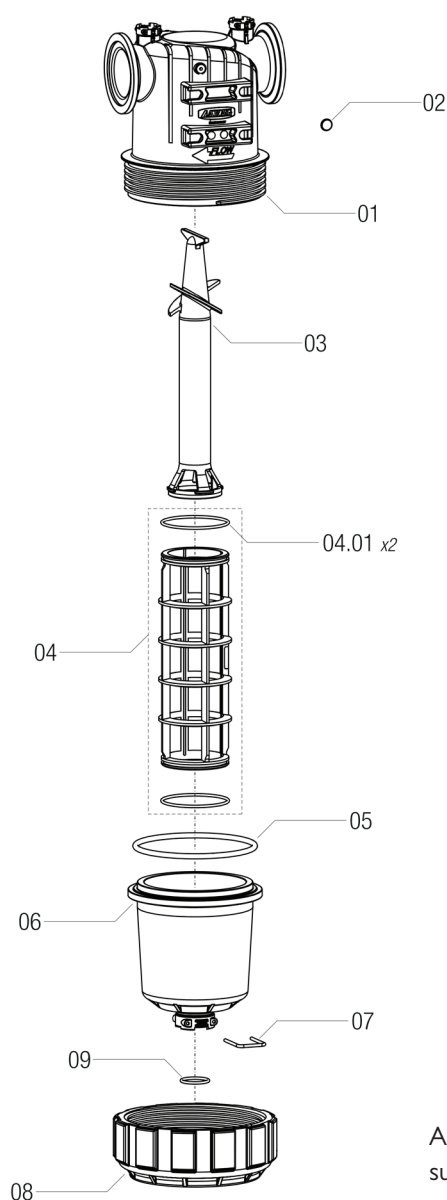


Above: Filter spanner GA4525000 suits the pressure filter.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4525000	SPANNER, ZINC COATED, 2" PRESSURE FILTER, SUIT GA2000563	-
1	GA2000563*	PRESSURE FILTER, 2", 100 MESH, ARAG SERIES 330	1
2	GA2000115	FLANGE CLAMP, AND GASKET, 2", SERIES 220, HYPRO	2
3	GA2000047	HOSE BARB, FLANGE, STRAIGHT, 2" FLANGE X 1 1/2" HOSE, BANJO	2
4	GA2000564	VALVE, BALL, DRAIN FOR FILTER 330 SERIES	1

\* Sub-assembly on following pages

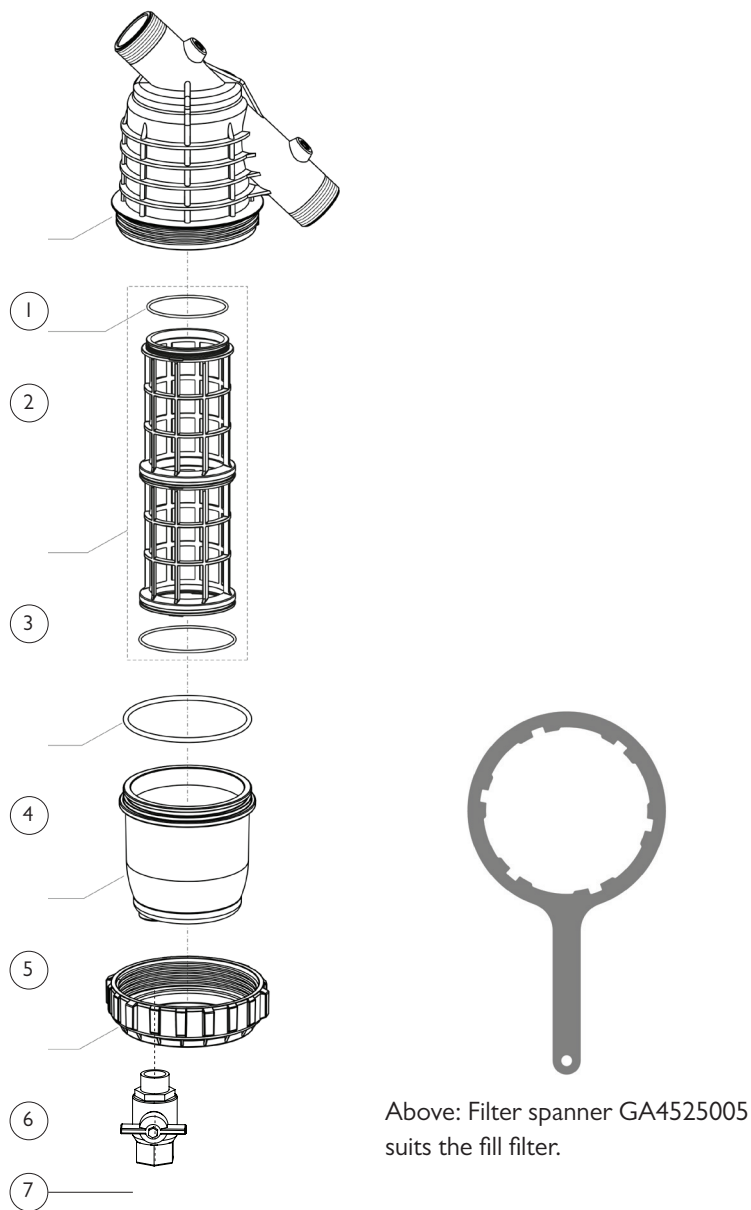
## Filter - 2" Pressure Assembly



Above: Filter spanner GA4525000 suits the pressure filter.

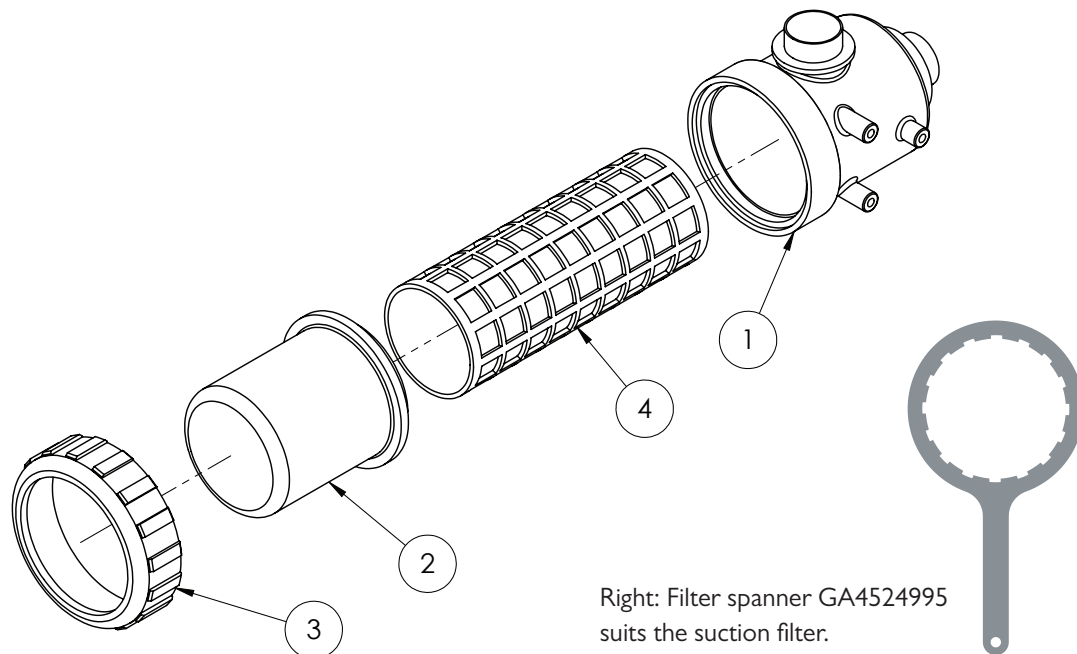
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4525000	SPANNER, ZINC COATED, 2" PRESSURE FILTER, ARAG	-
-	GA2000563	PRESSURE FILTER, 2", 100 MESH, ARAG SERIES 330	-
1	GA2000246	BODY	1
2	GA2000245	RED CAP	1
3	GA2000247	SELF-CLEANING CYLINDER	1
4	GA2000136	FILTER ELEMENT, SUIT GA2000563 PRESSURE FILTER, GREEN 100 MESH	1
4.01	GA2000248	O-RING, FILTER ELEMENT	2
5	GA2000249	O-RING, BOWL	1
6	GA2000250	BOWL	1
7	GA2000252	FORK D.3, DIST.29	1
8	GA2000253	LOCK RING	1

# Filter - 2" Fill



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4525005	SPANNER, ZINC COATED, 2" FILL FILTER, SUIT GA2000126	-
-	GA2000126	FILTER, LINE, 2" INLET AND OUTLET, 32 MESH, OPEN DRAIN PORT, ARAG	-
1	GA5073655	LINE FILTER BODY 2", ARAG	1
2	GA5077684	O RING, 2.62 X 94.92 MM, EPDM, GI I046	2
3	GA5076797	FILTER SCREEN, 32 MESH, SS & POLYPROPYLENE, ARAG	1
4	GA5073660	O-RING 5.34 X 133.40 MM, 210 NBR ARAG	1
5	GA5073665	LINE FILTER BOWL 2", ARAG	1
6	GA5073670	FILTER CLAMPING LOCK RING 2", ARAG	1
7	GA5018315	VALVE, BALL, 20MM, 3/4" MALE, FEMALE, BLACK BUTTERFLY HANDLE, BRASS	1

## Filter - 2" Suction

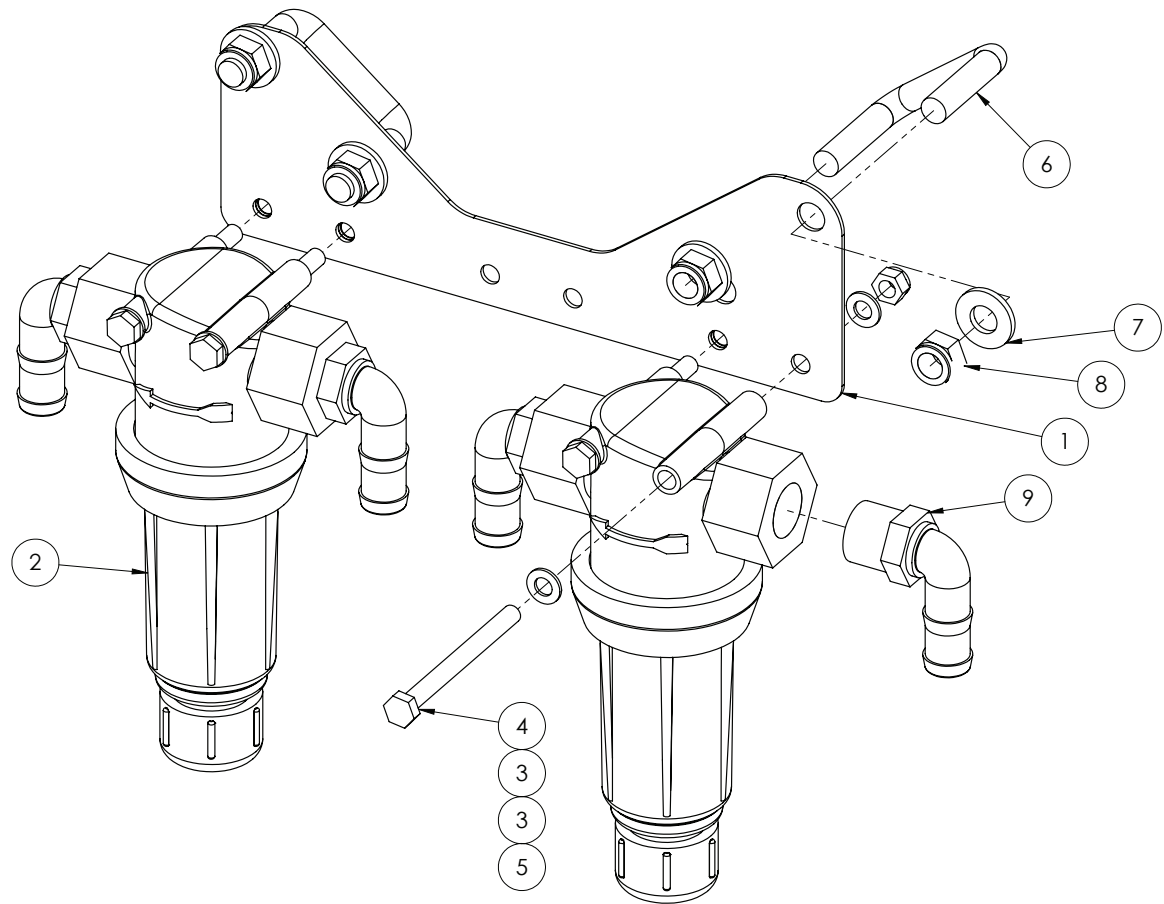


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5076799	SUCTION FILTER, 317, 2" BSP MALE INLET / OUTLET, 32 MESH - COMPLETE	-
1	GA5076773	FILTER BODY, 317, "2", INLET OUTLET THREAD	1
	GA5076793	317 SUCTION FILTER BOWL	1
2	GA5076769	O RING 126.4 X 7 MM, SUIT 317 FILTER BOWL, BS429 - ALTERNATE	1
	GA5076770	O RING 126.4 X 7 MM, SUIT 317 FILTER BOWL, VITON - ALTERNATE	1
3	GA5076768	NUT, PLASTIC, SUIT 317 SUCTION FILTER, 8 THREADS	1
	GA5076797	32 MESH SCREEN - RED - STANDARD FITMENT	1
4	GA5077684	O RING, 2.62 X 94.92 MM, EPDM, GI 1046, SUITS FILTER SCREEN	2

NOTE: Filter meshes finer than 32 mesh are not recommended as they can cause restrictions on the spray pump.

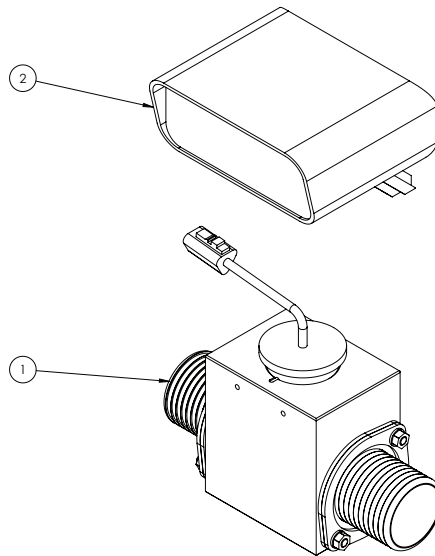


# Filter - In Line Boom



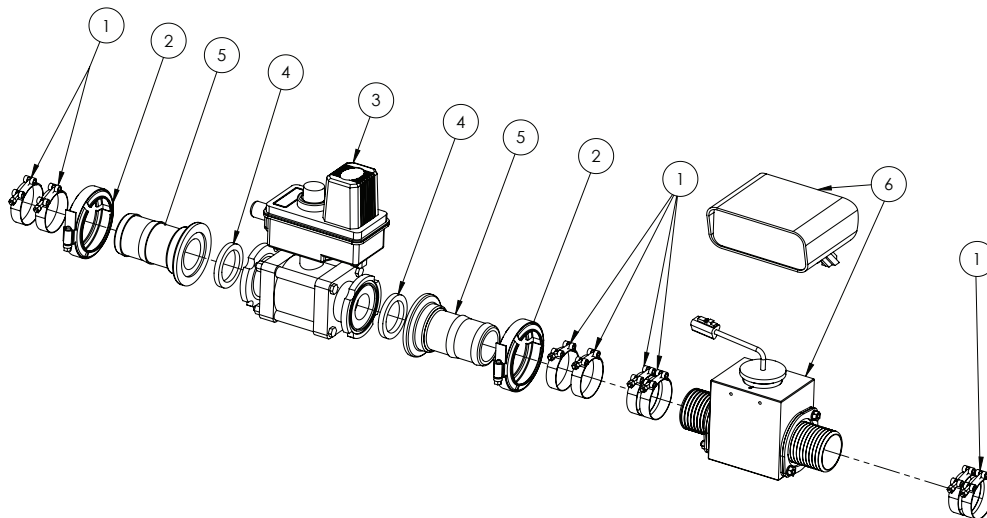
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA4505205	BOOM LINE FILTER MOUNT PLATE BOLT ON	1
2	GA5077270	FILTER, 3/4" FEMALE THREAD INLET/OUTLET, 200 MESH SCREEN	2
3	GA5048115	NUT M6 NYLOC ZP	8
4	GA5011495	BOLT M8 X 90 ZP GR8.8	4
5	GA5004917	NUT M8 NYLOC ZP	4
6	GA5011243	M12 X 50MM X 50MM SQUARE TOP U BOLTS	2
7	GA5000577	WASHER 12MM FLAT SS HD	4
8	GA5012461	NUT M12 NYLOC ZP	4
9	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE, BANJO	4

## Fill Flow Meter - Teejet



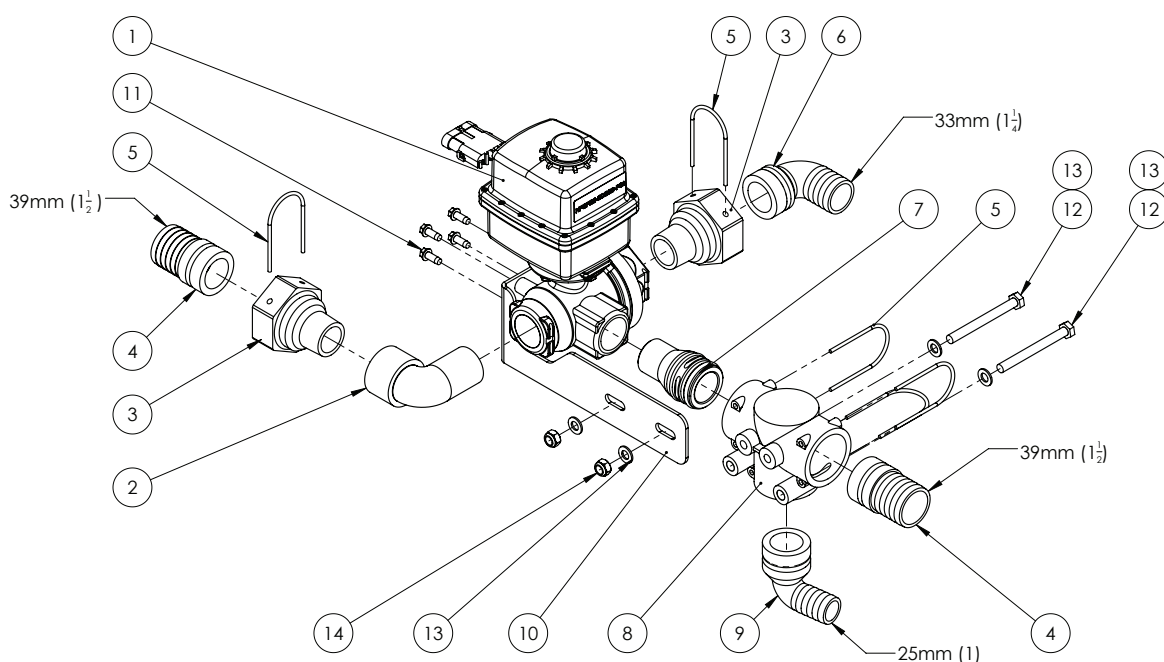
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077191	KIT, FLOWMETER 40D2 HOSE BARBS	1
2	75-30018	CONSOLE, FILL FLOW, METRIC	1

## Fill Flow Meter - Teejet & Shut Off Valve



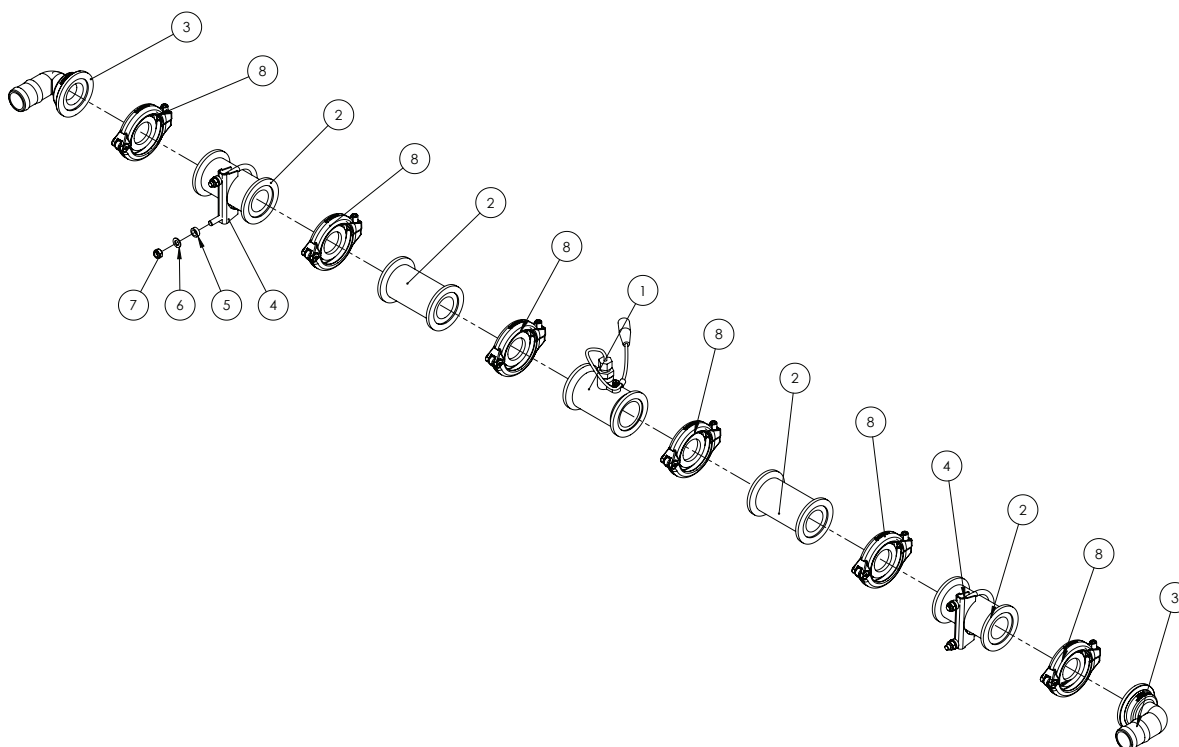
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5010191	HOSE CLAMP 2" T-BOLT SS	8
2	FC200	CLAMP, WORM SCREW, USE WITH 2" STANDARD FLANGE PORT	2
3	GA5076868	BALL VALVE ELECTRIC 2 WAY 2" FLANGE	1
	GA5077048	MOTOR, REPLACEMENT ONLY, 346 STYLE, 25RPM, BARE WIRES, TEEJET	-
4	GA5009335	SEAL, 41.5 ID X 55 OD X 6.5 MM THICK, EPDM, SUIT 1 1/2" FLANGE	2
5	GA5077837	HOSE BARB, STRAIGHT, 2" FLANGE X 2" HOSE	2
6	GA5077193	KIT, FILL FLOW, 40D F.M.METRIC, 70 SERIES MONITOR	1

## Regulator Valve Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5065815	O RING, 35 X 4 MM, SUIT AS40 FITTINGS	-
-	GA5065820	O RING, 38 X 3 MM, SUITS AS40 PLUMBING FITTINGS	-
1	GA2000065	REGULATOR VALVE, 1" NPT, FULL PORT, 3 WAY, 0.8 SEC 12V, KZ VALVE	1
2	GA5078137	STREET ELBOW, 90 DEGREE, 1" MALE X 1" FEMALE	1
3	GA4582385	COUPLING ALTEK AS40 TO 1" NPT MALE THREAD	2
4	GA5065590	HOSE BARB, STRAIGHT, AS40 X 39MM HOSE	2
5	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS	5
6	GA5065620	HOSE BARB, ELBOW, 90 DEGREE, AS40 X 33MM HOSE BARB	1
7	GA2000077	PLUMBING FITTING, AS40 TO 1" NPT MALE THREAD	1
8	GA5065555	TEE, 3 PORT, AS40 FEMALE, NO M8 INSERTS	1
9	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM	1
10	GA4404760	PLATE, BRACKET, REGULATOR VALVE ASSEMBLY	1
11	GA0500022	SET SCREW SELF TAPPING TRILOBE M6 X 16 ZP	4
12	GA5004749	BOLT M8 X 80 GR8.8 ZP	2
13	GA5003651	WASHER 8MM FLAT SS	4
14	GA5004917	NUT M8 NYLOC ZP	2

## Flow Meter



### FLOW METER ASSEMBLY

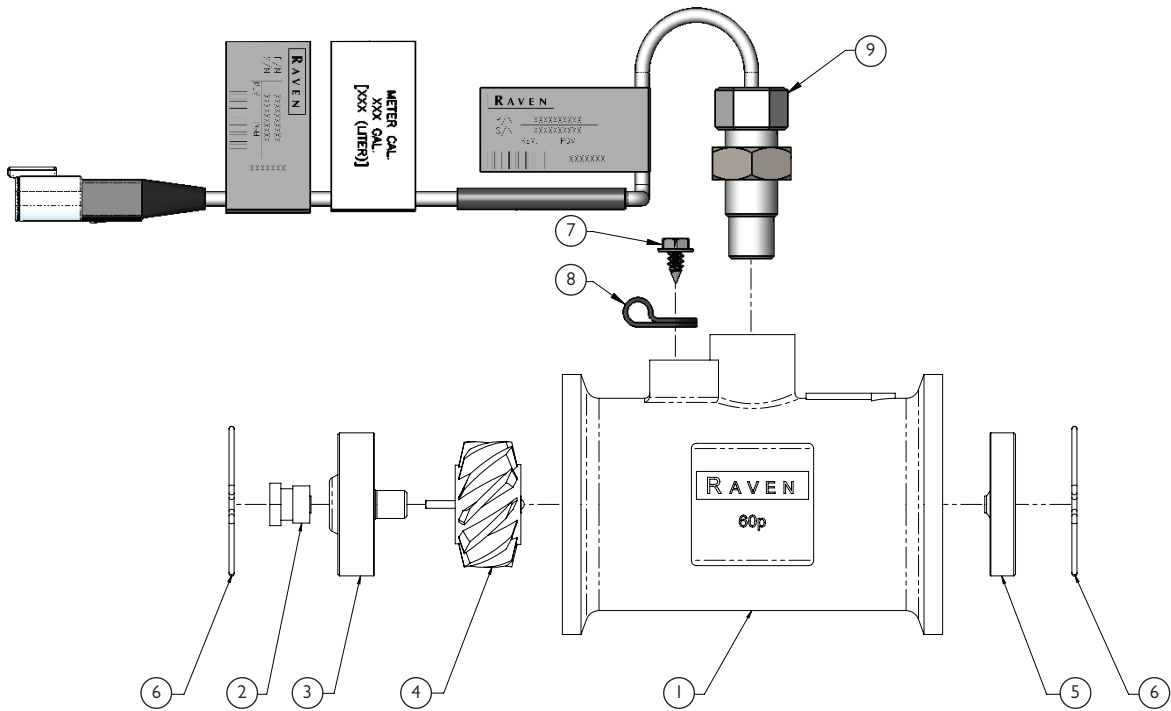
PART NUMBER	DESCRIPTION
GA4908545	FLOW METER ASSEMBLY, LONG, RAVEN 60P HIGH PULSE WITH ROUND CONNECTOR, 1 1/2" HOSE BARBS, SUIT 4400 AND PCI ISO BUS
GA4949215	FLOW METER ASSEMBLY, LONG, RAVEN 60P HIGH PULSE WITH DEUTSCH CONNECTOR, 1 1/2" HOSE BARBS, SUIT RCM ISO BUS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5075873	FLOWMETER, RFM60P, ROUND CONNECTOR, SUIT ISO & 4400 RAVEN	1
	GA5075890	FLOWMETER, RFM60P, DEUTSCH CONNECTOR, SUIT RCM RAVEN	1
2	GA5077840	PLUMBING COUPLING, STRAIGHT, 2" FLANGE X " FLANGE X 4 1/2" LONG	4
3	GA5077834	HOSE BARB, ELBOW, 90 DEGREE, 2 FLANGE X 1 1/2" HOSE	2
4	GA5006689	EXHAUST CLAMP - 66MM C12	2
5	GA4552080	CRUSH TUBE, 10.2 ID X 15 OD X 5 MM	4
6	GA5003643	WASHER 8MM FLAT SS HD	4
7	GA5052590	NUT M8 NYLOC SS	4
8	GA2000114	FLANGE CLAMP, AND GASKET, 1.5", SERIES 200, HYPRO	6

NOTE: The flange clamps come with a built in seal/gasket.

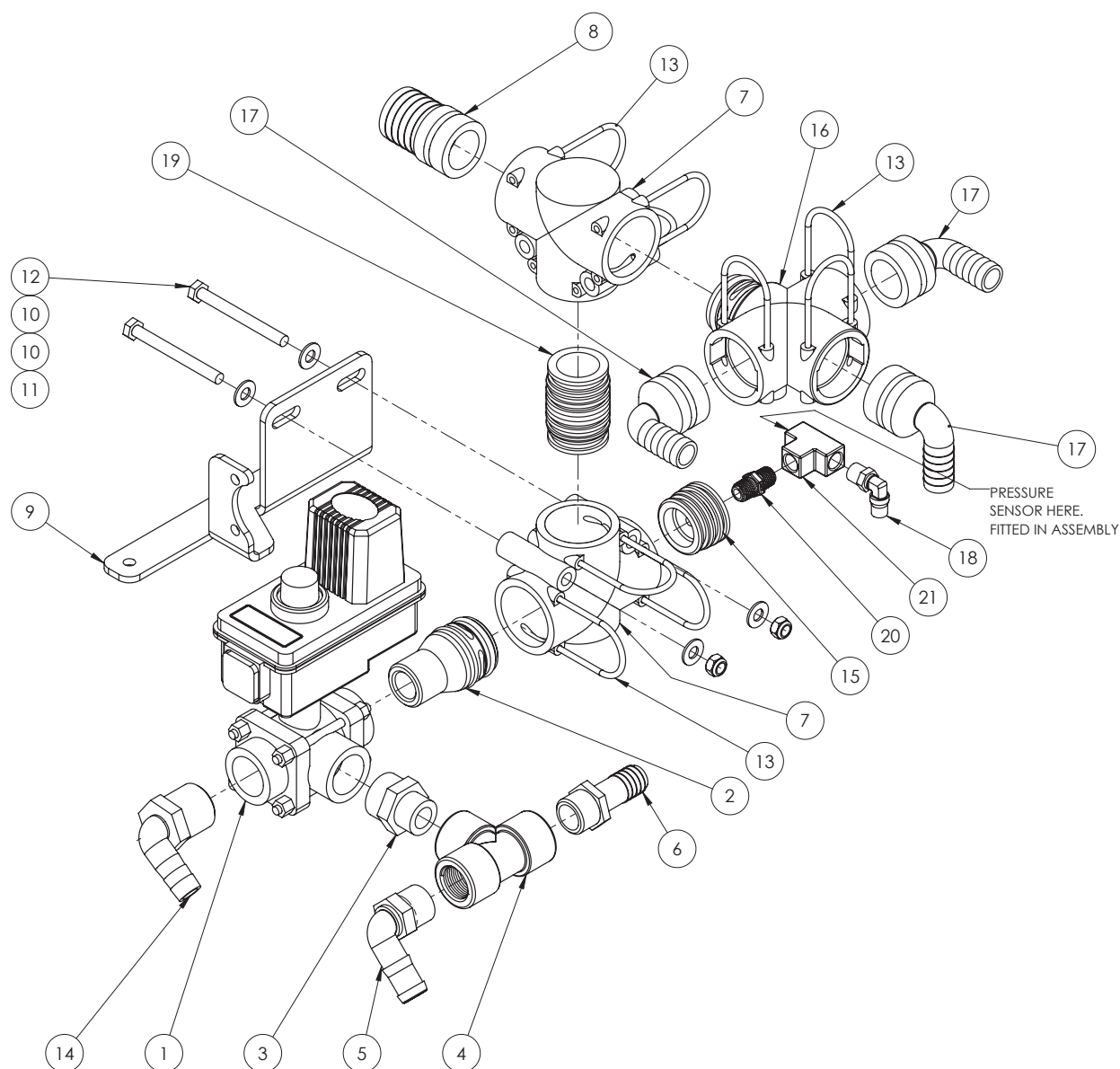
\* Sub-assembly on following pages

# Flow Meter Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5075873	FLOWMETER, RFM60P, ROUND CONNECTOR, SUIT ISO & 4400 RAVEN	1
-	GA5075890	FLOWMETER, RFM60P, DEUTSCH CONNECTOR, SUIT RCM RAVEN	1
1	-	BODY, MOULDED, FLOWMETER RFM-60, 1060159514	1
2	0630173062F	TURBINE, STUD, POLY, FLOWMETER RFM-60	2
3	GA5075870	HUB/BEARING ASSEMBLY, UPSTREAM, FLOWMETER RFM-60	1
4	GA5075869	ROTOR/MAGNET ASSEMBLY RFM-60	1
5	GA5075871	BEARING, DOWN STREAM END BEARING SUIT RFM-60	1
6	-	RETAINING RING, WIREFORM, FLOWMETER RFM-60, 3350003200	2
7	GA5076734	SCREW 10-16 X 3/8" SLTD HEX	1
8	GA5076966	CLAMP CABLE PLASTIC 1/4" X 1/2"	1
9	GA3000195	SENSOR, EXTERNAL FLOW METER, HIGH PULSE, SUIT 15P AND 60P, RAVEN	1

## Flow Distributor & Boom Recirc. Valve 24-42m



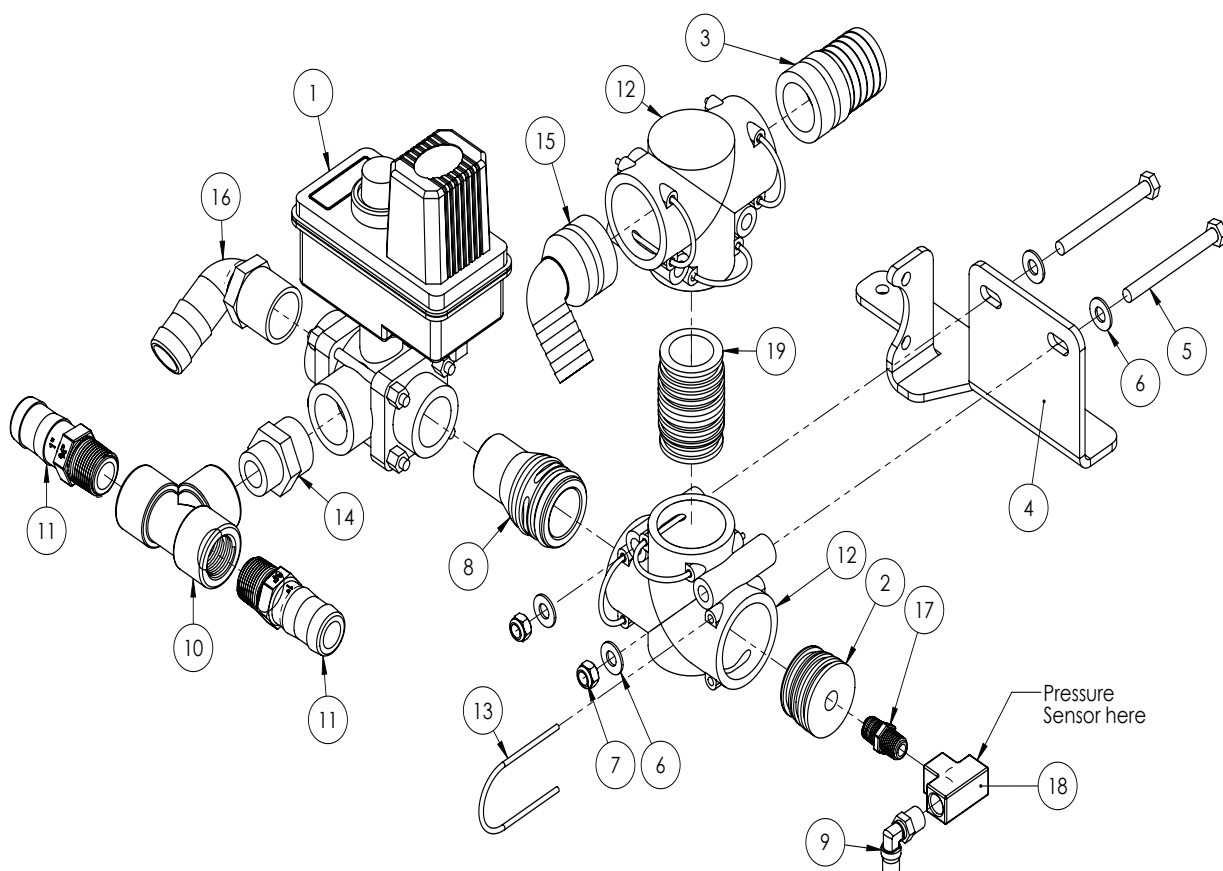
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA3000199	PRESSURE TRANSDUCER, 0-250PSI, I-5V, DEUTSCH, SEALED	1
-	GA5065815	O RING, 35 X 4 MM, SUIT AS40 FITTINGS	-
-	GA5065820	O RING, 38 X 3 MM, SUITS AS40 PLUMBING FITTINGS	-
1	GA5077319	VALVE, ELECTRIC BALL 3 WAY, SHUTOFF/BYPASS, 1" - COMPLETE UNIT	1
	GA5077047	REPLACEMENT 12V MOTOR, SUIT TEEJET VALVE GA5077319, BARE WIRES	-
2	GA2000077	PLUMBING FITTING, AS40 TO 1" NPT MALE THREAD	1

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## Flow Distributor & Boom Recirc. Valve 24-42m

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
3	GA5078089	NIPPLE, REDUCING, POLY, 1" X 3/4" THREAD	1
4	GA5078150	TEE, THREADED, 3/4" FEMALE	1
5	GA5077717	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 3/4" HOSE	1
6	GA5077709	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 3/4" HOSE	1
7	GA5065555	TEE, 3 PORT, AS40 FEMALE, NO M8 INSERTS, ALTEK	2
8	GA5065590	HOSE BARB, STRAIGHT, AS40 X 39MM HOSE, ALTEK	1
9	GA4400975	PLATE, BRACKET, FLOW DISTRIBUTER AND BOOM RECIRCULATION VALVE ASSEMBLY	1
10	GA5003643	WASHER 8MM FLAT SS HD	4
11	GA5004917	NUT M8 NYLOC ZP	2
12	GA5004749	BOLT M8 X 80 GR8.8 ZP	2
13	GA5065690	SAFETY PIN AS40	9
14	GA5077719	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE THREAD X 3/4" HOSE	1
15	GA4582160	PLUMBING ADAPTOR, PLUG, AS40 MALE X 1/4" FEMALE THREAD, ALTEK	1
16	GA2000082	PLUMBING FITTING, CROSS, AS40, 3X FEMALE, 1X MALE, 2X M8 INSERTS, NO O-RINGS, ALTEK	1
17	GA5065610	HOSE BARB, ELBOW, 90 DEGREE, AS40 X 20MM HOSE, ALTEK	3
18	GA5016233	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 6 MM PUSH IN TYPE, METAL	1
19	GA5065735	PLUMBING ADAPTOR, AS40 MALE X AS40 MALE, ALTEK	1
20	GA5077909	NIPPLE, SHORT, 1/4" MALE THREAD X 1/4" MALE THREAD	1
21	GA5048300	TEE, 1/4" FEMALE THREAD X 1/4" FEMALE THREAD X 1/4" FEMALE THREAD, BRASS	1

## Flow Distributor & Boom Recirc. Valve 48m



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA3000199	PRESSURE TRANSDUCER, 0-250PSI, 1-5V, DEUTSCH, SEALED	1
-	GA5065815	O RING, 35 X 4 MM, SUIT AS40 FITTINGS	-
-	GA5065820	O RING, 38 X 3 MM, SUITS AS40 PLUMBING FITTINGS	-
1	GA5077319	VALVE, ELECTRIC BALL 3 WAY, SHUTOFF/BYPASS, 1" - COMPLETE UNIT	1
	GA5077047	REPLACEMENT 12V MOTOR, SUIT TEEJET VALVE GA5077319, BARE WIRES	-
2	GA4582160	PLUMBING ADAPTOR, PLUG, AS40 MALE X G1/4" FEMALE THREAD	1
3	GA5065590	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS	1
4	GA4400975	PLATE, BRACKET, FLOW DISTRIBUTOR AND BOOM RECIRCULATION VALVE ASSEMBLY, 48M	1
5	GA5004749	BOLT M8 X 80 GR8.8 ZP	2
6	GA5003643	WASHER 8MM FLAT SS HD	4
7	GA5004917	NUT M8 NYLOC ZP	2
8	GA2000077	PLUMBING FITTING, AS40 TO 1" NPT MALE THREAD	1
9	GA5016233	PNEUMATIC FITTING, ELBOW, 90 DEGREE, 1/4" BSP MALE X 6MM PUSH TYPE	1
10	GA5078150	TEE, THREADED, 3/4" FEMALE	1

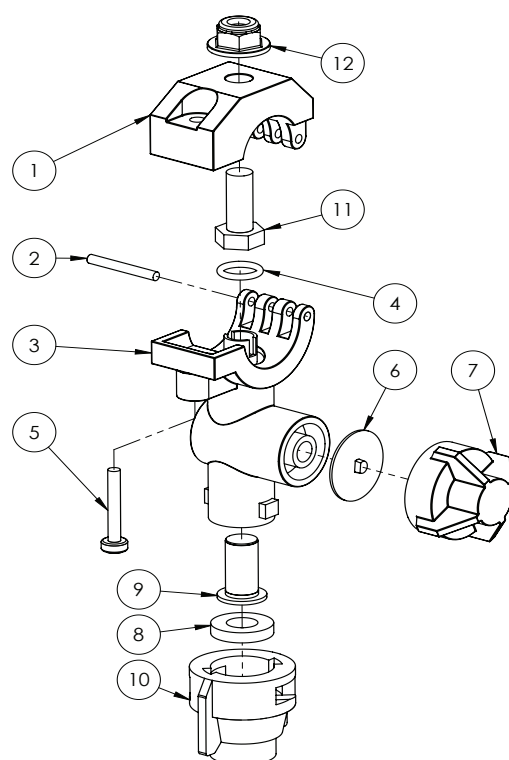
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## Flow Distributor & Boom Recirc. Valve 48m

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
11	GA5077715	HOSE BARB, STRAIGHT, 3/4" MALE THREAD X 1" HOSE BARB	2
12	GA5065560	TEE, 3 PORT, AS40 FEMALE, M8 INSERTS	2
13	GA5065690	SAFETY PIN, SUIT AS40 PLUMBING FITTINGS	6
14	GA5078089	NIPPLE, REDUCING, POLY, 1" X 3/4" THREAD	1
15	GA5065615	HOSE BARB, ELBOW 90 DEGREE, AS40 X 25MM	1
16	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE	1
17	GA5077909	NIPPLE, SHORT, 1/4" MALE THREAD X 1/4" MALE THREAD	1
18	GA5048300	TEE, 1/4" F THREAD X 1/4" F THREAD X 1/4" F THREAD, BRASS	1
19	GA5065735	PLUMBING ADAPTOR, AS40 MALE X AS40 MALE	1

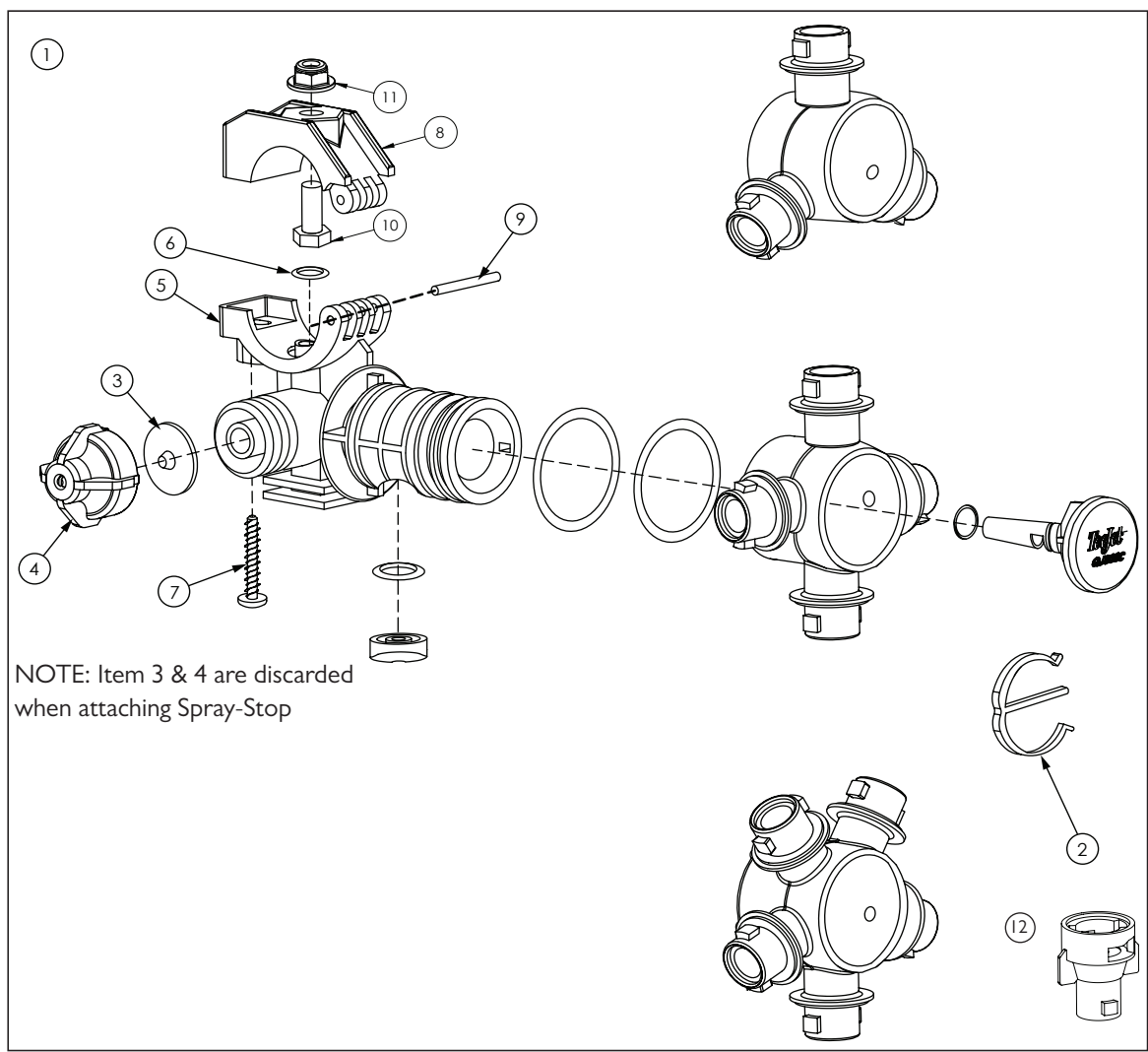
## Nozzles - Teejet Single Body



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5077964	NOZZLE BODY, SINGLE, 3/4", TEEJET	-
-	GA5077962	NOZZLE BODY, SINGLE, 1", TEEJET	-
1	GA5077532	NOZZLE BODY CLAMP, UPPER, 3/4", TEEJET	1
	GA5077533	NOZZLE BODY CLAMP, UPPER, 1", TEEJET	1
2	GA5077537	PIN, NOZZLE BODY CLAMP, TEEJET	1
3	GA5077538	3/4" NYLON BODY	1
	CP48499-NYB	1" NYLON BODY	1
4	GA5077596	O-RING, 14.5 X 2.5MM, BUNA	1
	GA5077597	O-RING, VITON	1
5	GA5077536	SCREW, SUIT TEEJET NOZZLE BODIES, 1-1/4" LONG, SS	1
	GA5077439	CHEMSAVER, DIAPHRAGM, TEEJET	1
6	GA5077440	DIAPHRAGM, VITON, NOZZLE BODY CHECK VALVE, TEEJET	1
7	GA5076670	CHEMSAVER, 10PSI, BLACK, TEEJET	1
8	GA5055245	WASHER, NOZZLE CAP SEAL, RUBBER, 19 OD X 9MM ID	1
9	GA5077159	FILTER, NOZZLE TIP, RED, 50 MESH, POLYPROPYLENE & SS, TEEJET	1
	GA5077160	NOZZLE FILTER SCREEN, BLUE 80 MESH, POLYPROYLENE / SS, TEEJET	1
10	GA8100464	NOZZLE CAP, BLACK, TEEJET, SUIT FLAT SPRAY SMALLER CAPACITY NOZZLES (UP TO 08)	1
	GA8100059	NOZZLE CAP, 10MM ACROSS FLATS, BLACK, LECHLER	1
11	GA5004085	BOLT M8 X 20 GR8.8 ZP	1
12	GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1

NOTE: See nozzle tip strainer, cap and nozzle sections on following pages for more detailed nozzle parts guide.

# Nozzles - Teejet Clock Face Body



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077972	NOZZLE BODY ASSEMBLY, CLOCK FACE, 3 OUTLET, 3/4", TEEJET	-
	GA5077974	NOZZLE BODY ASSEMBLY, CLOCK FACE, 4 OUTLET, 3/4", TEEJET	-
	GA5077977	NOZZLE BODY ASSEMBLY, CLOCK FACE, 5 OUTLET, 3/4", TEEJET	-
	GA5077970	NOZZLE BODY, TRIPLE, TRIJET, CLOCK FACE, 1", TEEJET	-
2	GA5077496	E CLIP, NOZZLE BODY, TEEJET	1
3	GA5077439	CHEMSAVER, DIAPHRAGM, TEEJET	1
	GA5077440	DIAPHRAGM, VITON, NOZZLE BODY CHECK VALVE, TEEJET	
4	GA5076670	CHEMSAVER, 10PSI, BLACK, TEEJET	1

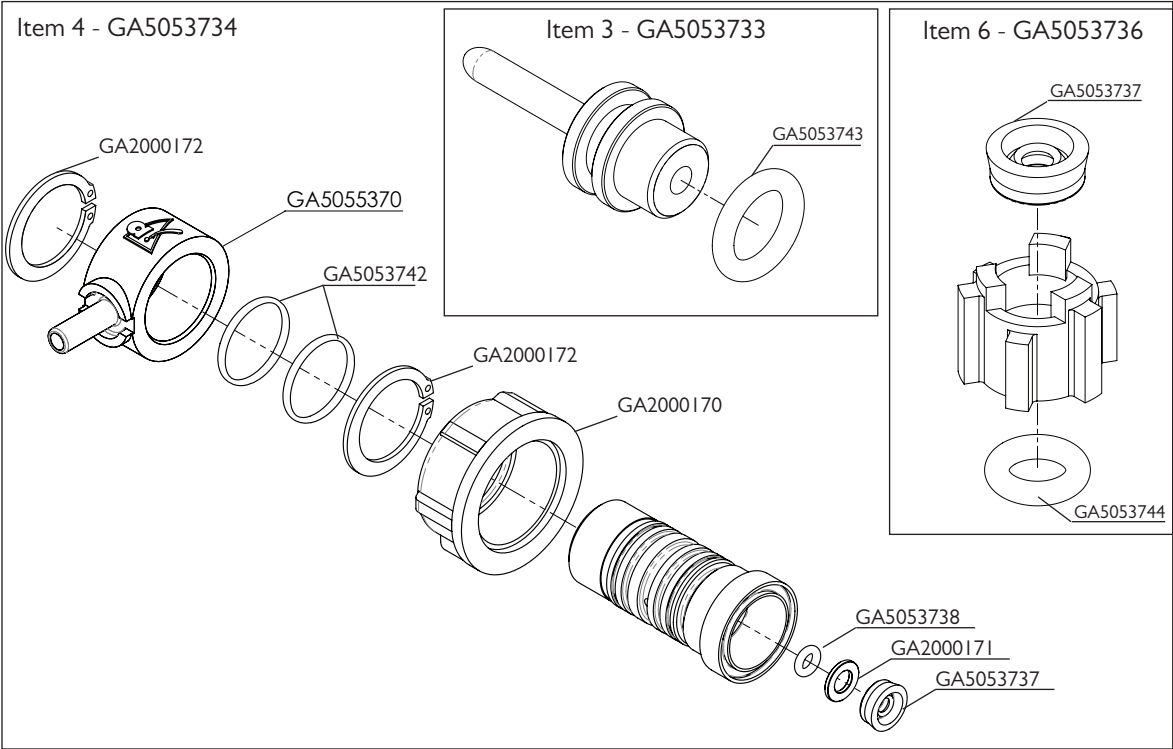
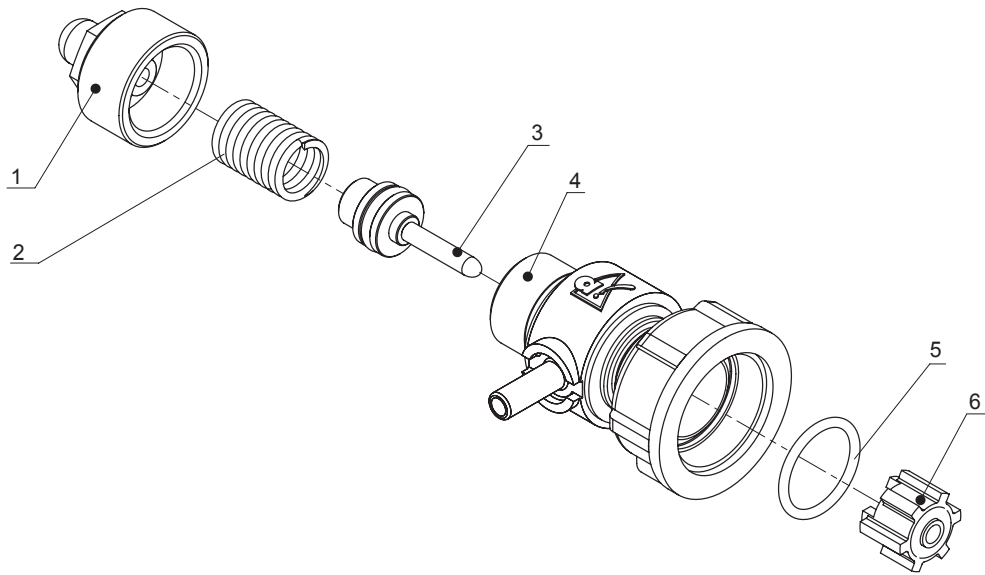
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NOTE: See nozzle tip strainer, cap and nozzle sections on following pages for more detailed nozzle parts guide.

## Nozzles - Teejet Clock Face Body

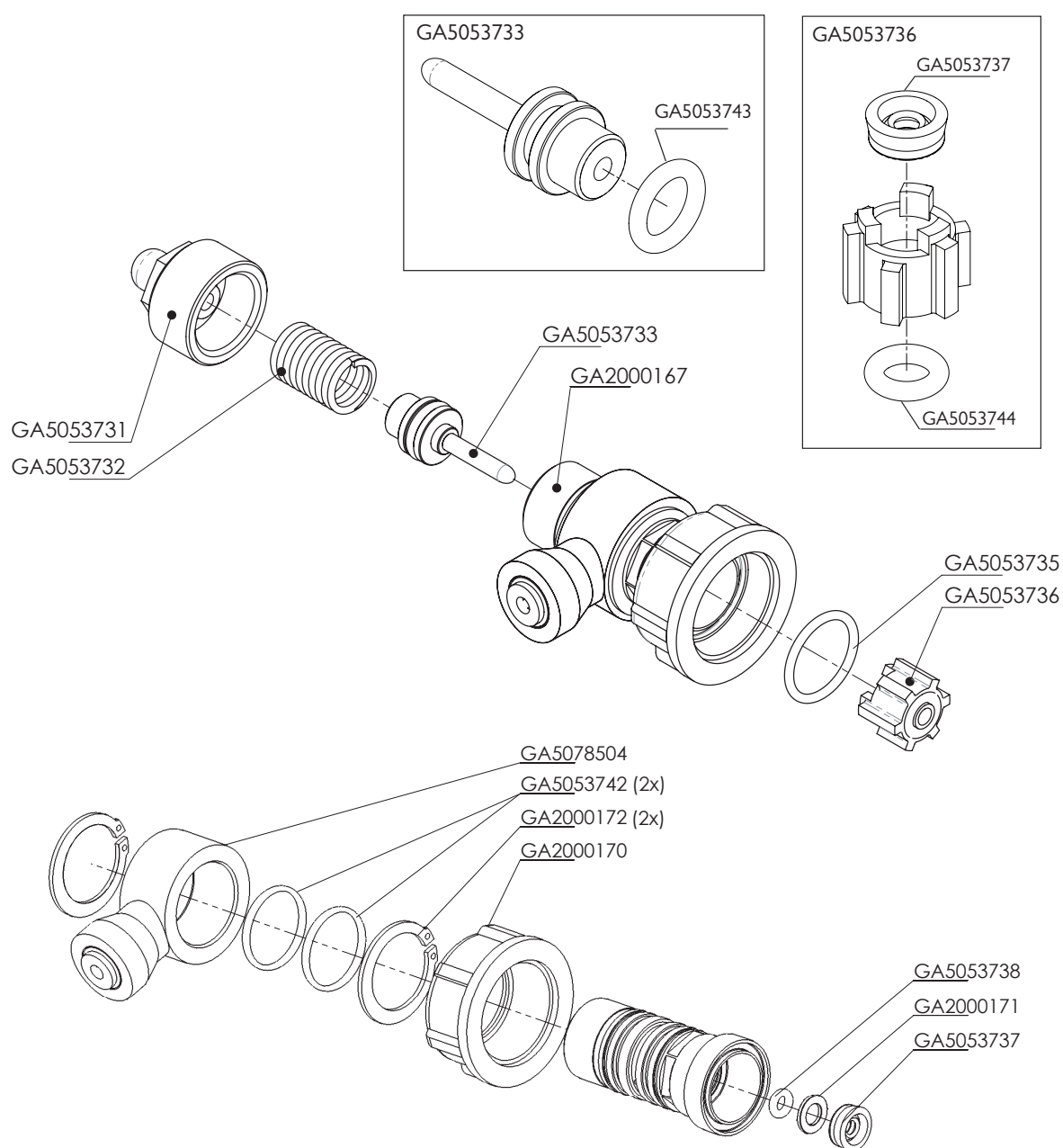
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5	GA5077493	BODY, 360 SERIES 3/4", TEEJET	1
	GA5077494	BODY, 360 SERIES 1", TEEJET	1
6	GA5077596	O-RING, 14.5 X 2.5MM, BUNA	1
	GA5077597	O-RING, VITON	1
7	GA5077536	SCREW, SUIT TEEJET NOZZLE BODIES, 1-1/4" LONG, SS	1
8	GA5077532	NOZZLE BODY CLAMP, UPPER, 3/4", TEEJET	1
	GA5077533	NOZZLE BODY CLAMP, UPPER, 1", TEEJET	1
9	GA5077537	PIN, NOZZLE BODY CLAMP, TEEJET	1
10	GA5004085	BOLT M8 X 20 GR8.8 ZP	1
11	GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1
12	GA5077057	NOZZLE BODY EXTENSION, QUICK TEEJET TYPE, 1" LONG, BLACK, TEEJET	1

# Nozzles - Altek Spray Stop - Push On Type



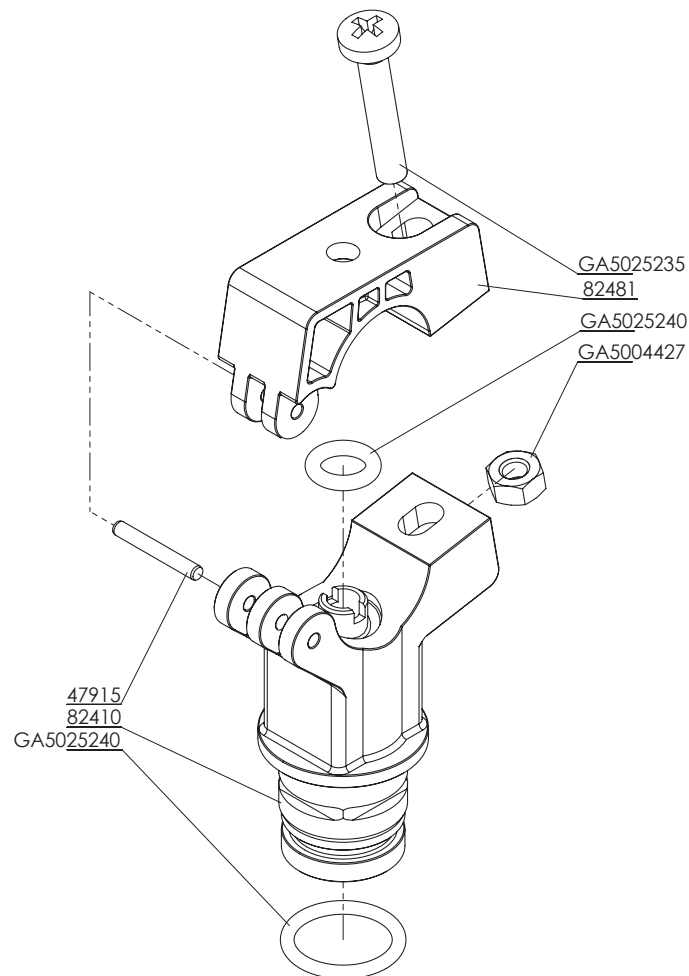
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5065520	SPRAY STOP, RAPIDFIRE, SUIT TEEJET NOZZLE BODY, ALTEK	-
1	GA5053731	END CAP WITH BREATHER	1
2	GA5053732	SPRING, 10 BAR	1
3	GA5053733	PISTON	1
4	GA5053734	VALVE BODY	1
5	GA5053735	O-RING EXTERNAL	1
6	GA5053736	PLUNGER	1

## Nozzles - Altek Spray Stop - Push In Type



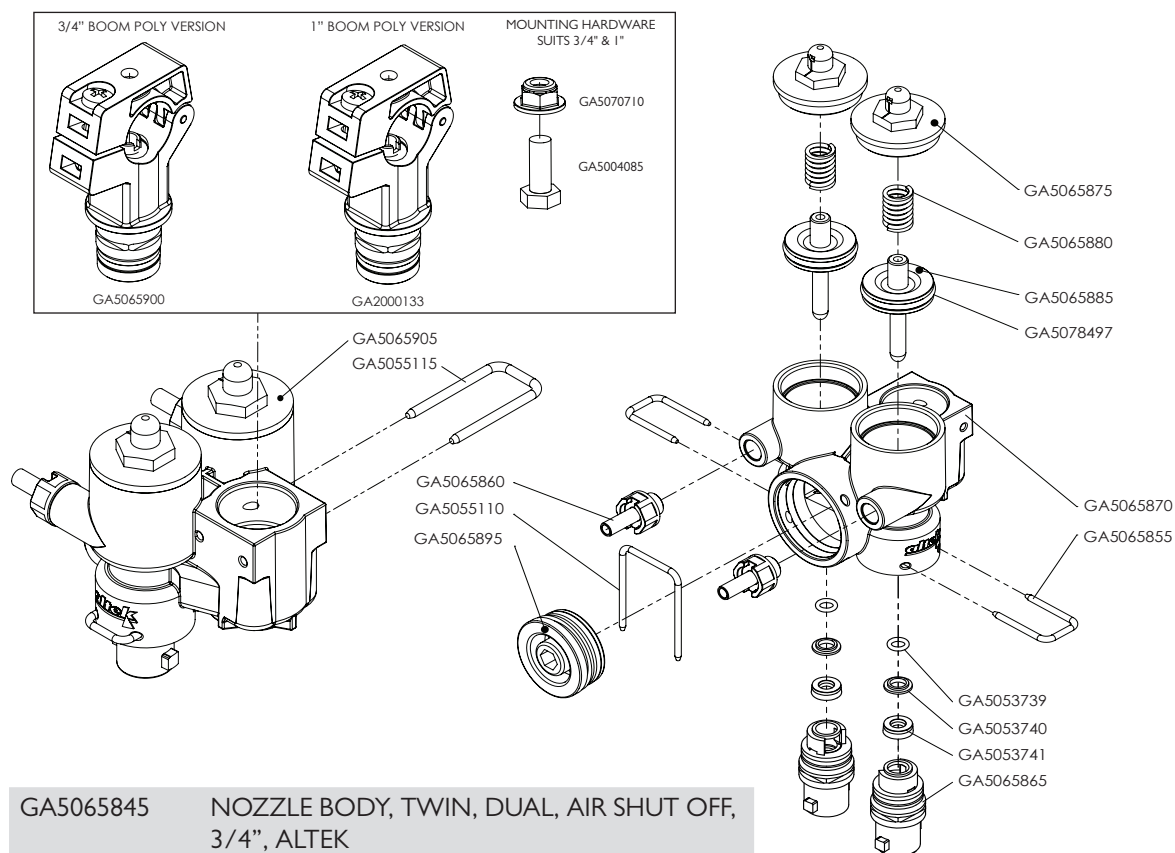
PART NUMBER	DESCRIPTION	QTY.
GA5065523	SPRAY STOP, 4MM, RAPIDFIRE, SUIT TEEJET NOZZLE BODY, ALTEK	-
GA5053731	END CAP WITH BREATHER	1
GA5053732	SPRING, 10 BAR	1
GA5053733	PISTON	1
GA5053734	VALVE BODY	1
GA5053735	O-RING EXTERNAL	1
GA5053736	PLUNGER	1

## Nozzles - Altek Clamp



PART NUMBER	DESCRIPTION	QTY.
GA5065900	CLAMP, DUAL NOZZLE BODY, SUIT 3/4" BOOM POLY, INCLUDES SCREW, NUT AND O RING	-
GA2000133	CLAMP, DUAL NOZZLE BODY, SUIT 1" BOOM POLY, INCLUDES SCREW, NUT AND O RING	-
GA5025235	SCREW, M6, NOZZLE BODY CLAMP, ALTEK	1
82481	NOZZLE BODY CLAMP, UPPER SECTION, ALTEK	1
GA5025240	O-RING, 9.5 X 3 MM EPDM, NOZZLE BODY CLAMP, ALTEK	1
GA5004427	NUT M6 SS	1
47915	PIN, NOZZLE BODY CLAMP, ALTEK	1
82410	NOZZLE BODY CLAMP, LOWER SECTION, ALTEK	1
GA5025245	O-RING, 19 X 2.65 MM FPM80, NOZZLE BODY CLAMP, ALTEK	1

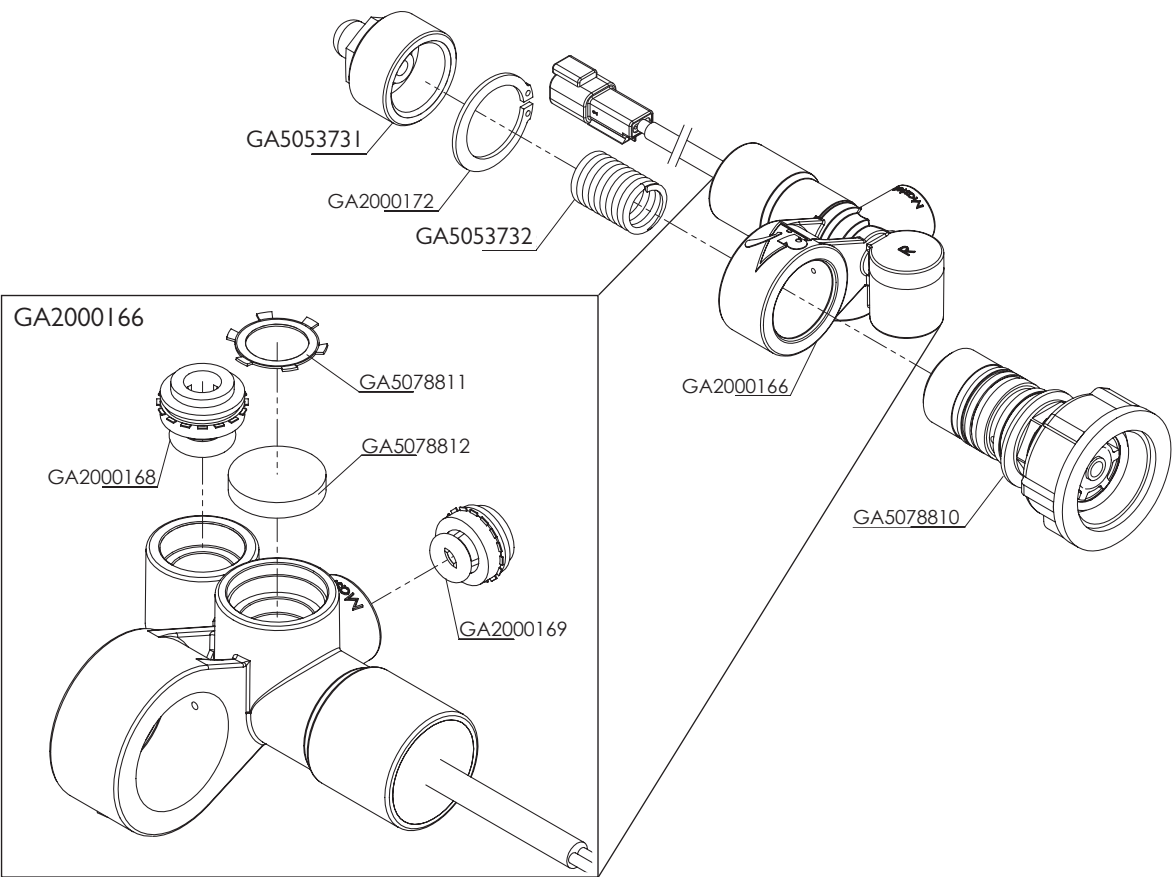
## Nozzles - Altek Dual Spray Body



GA5065845	NOZZLE BODY, TWIN, DUAL, AIR SHUT OFF, 3/4", ALTEK	
PART NUMBER	DESCRIPTION	QTY.
GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1
GA5004085	BOLT M8 X 20 GR8.8 ZP	1
GA5065900	NOZZLE BODY CLAMP, SUIT 3/4" BOOM POLY, INCLUDES SCREW, NUT AND O-RING	1
GA2000133	NOZZLE BODY CLAMP, SUIT 1" BOOM POLY, INCLUDES SCREW, NUT AND O-RING	1
GA5065905	LOWER BODY, MULTI SPRAY, ALTEK	1
GA5055115	U CLIP, 20 X 40 X 3MM	1
GA5065875	TOP CAP	2
GA5065880	SPRING	2
GA5065885	STAINLESS PISTON COMPLETE WITH O-RING	2
GA5078497	O-RING, 23.5 X 2.6 MM, FPM80	-
GA5065870	OUTER BODY	1
GA5065855	U-CLIP	2
GA5065865	OUTLET, VALVE INNER, NOZZLE BODY, ALTEK	2
GA5065860	HOSE BARB, AIR FITTING, 6MM HOSE, MALE THREAD, INCLUDES SEAL	2
GA5055110	U CLIP 30 X 41 X 2.5MM	1
GA5065895	SHUTOFF PLUG	1
GA5053739	O-RING, 5.6MM X 1.8MM FMP, SUIT GA5065845, ALTEK	2
GA5053740	RETAINING DISK, 11.8MM X 6.8MM X 2MM, SUIT GA5065845, ALTEK	2
GA5053741	LIP SEAL, 6MM X 12MM X 4.2MM FMP, SUIT GA5065845, ALTEK	2

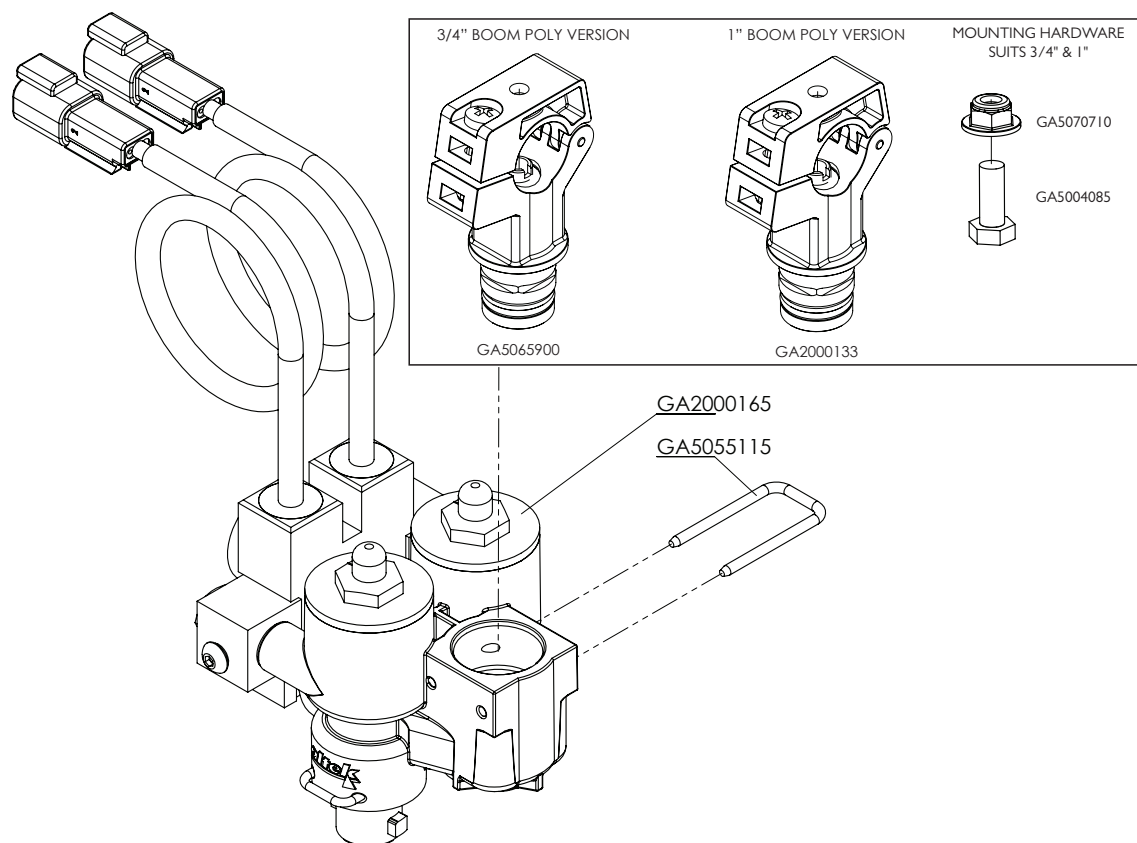


# Nozzles - Direct Control - Single



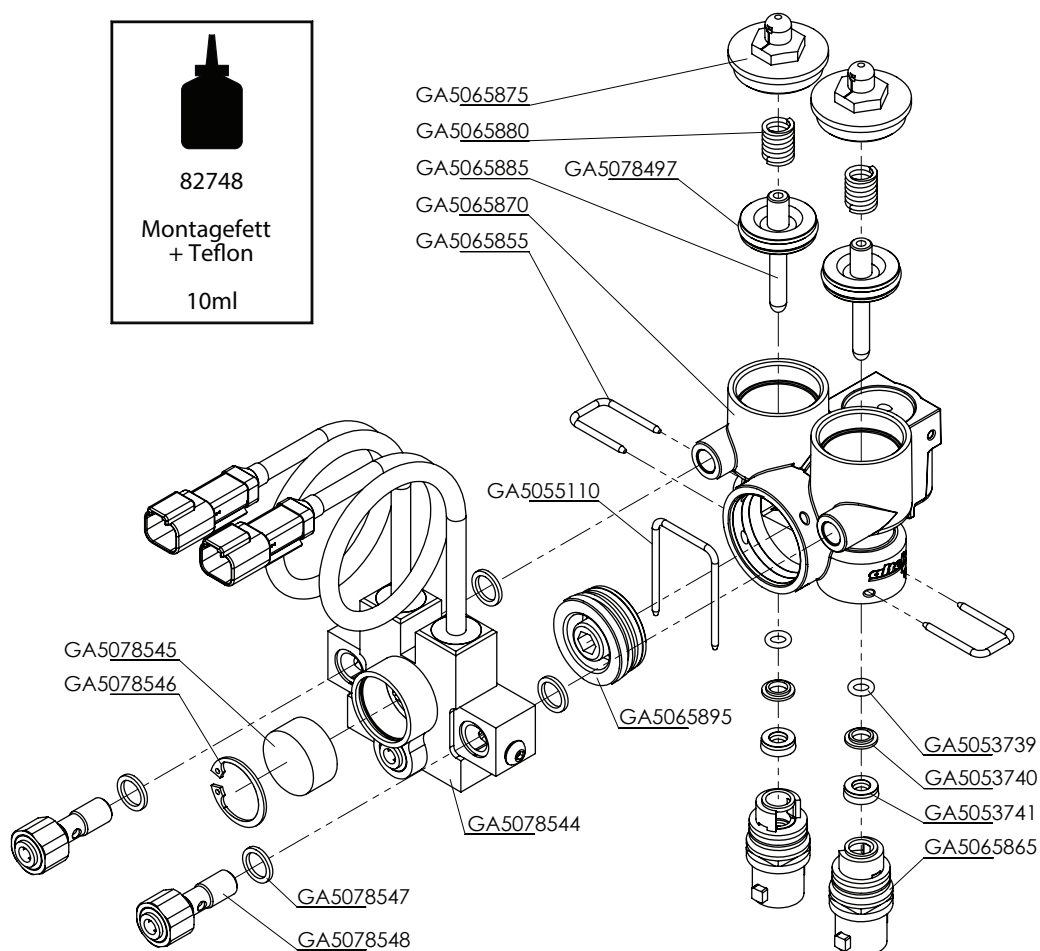
PART NUMBER	DESCRIPTION	QTY.
GA5065525	SPRAY STOP, SOLENOID DIRECT CONTROL, RAPIDFIRE, 6MM IN, 4MM OUT	-
GA5053731	END CAP WITH BREATHER, SUIT GA5065520 SPRAY STOP, ALTEK	1
GA2000172	CIRCLIP, SPRAY STOP, ALTEK, 81376	1
GA5053732	SPRING, 10 BAR, SUIT SPRAY STOP, ALTEK	1
GA2000166	SINGLE NOZZLE BODY ASSEMBLY, DIRECT CONTROL, DEUTSCH CONNECTOR	1
83224	SPRAY STOP - NOT AVAILABLE AS SPARE PART	1
84033	BREATHER RETAINER - NOT AVAILABLE AS SPARE PART	1
84003	BREATHER - NOT AVAILABLE AS SPARE PART	1
GA2000168	INLET CARTRIDGE, 6MM, PLASTIC, INCLUDES O-RING, ALTEK, 83250	1
GA2000169	OULET CARTRIDGE, 4MM, PLASTIC, INCLUDES O-RING, ALTEK, 83759	1

## Nozzles - Direct Control - Dual



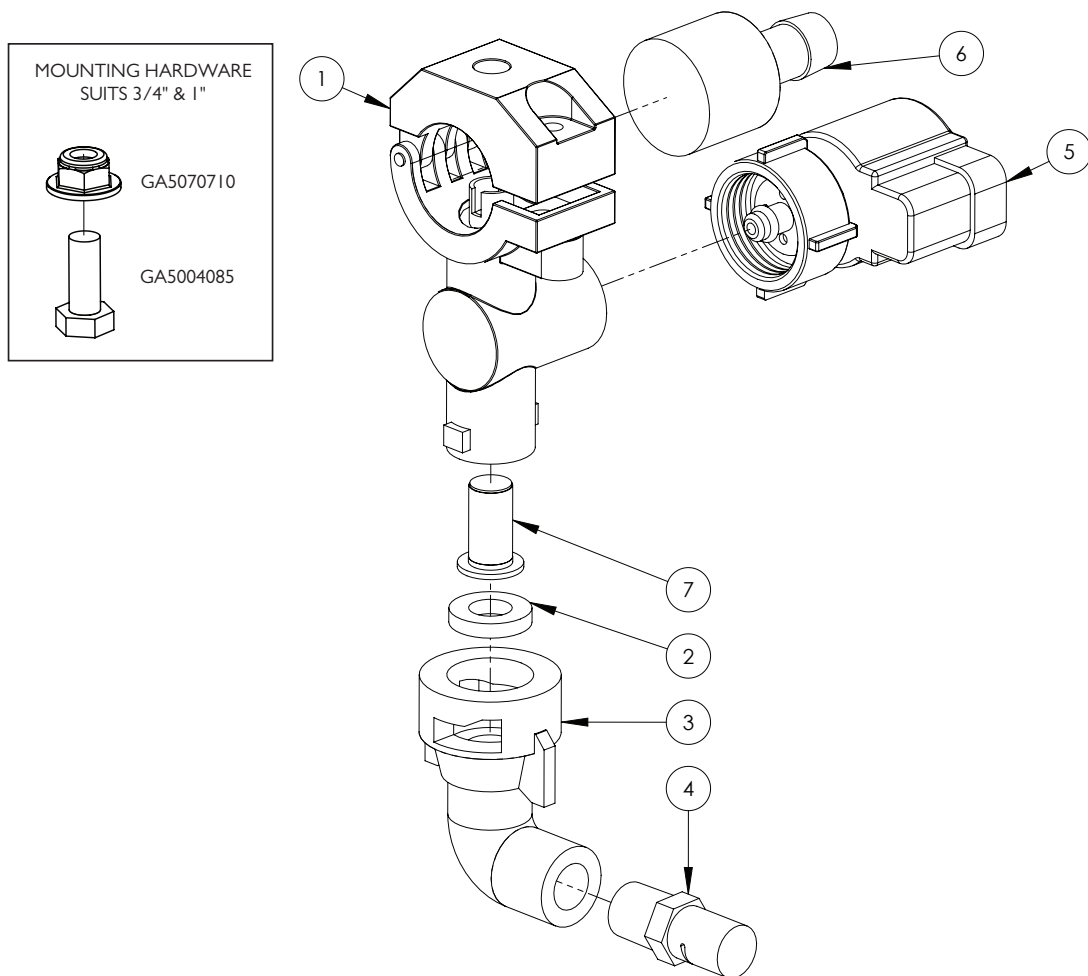
PART NUMBER	DESCRIPTION	QTY.
GA5065846	SPRAY STOP, NOZZLE BODY, TWIN, DUAL, SOLENOID DIRECT CONTROL MULTI-SPRAY MASTER, AIR SHUT OFF, 3/4"	-
GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1
GA5004085	BOLT M8 X 20 GR8.8 ZP	1
GA5065900	NOZZLE BODY CLAMP, SUIT 3/4" BOOM POLY, INCLUDES SCREW, NUT AND O-RING	1
GA2000133	NOZZLE BODY CLAMP, SUIT 1" BOOM POLY, INCLUDES SCREW, NUT AND O-RING	1
GA2000165	DUAL NOZZLE BODY ASSEMBLY, DIRECT CONTROL	1
GA5055115	U CLIP, 20 X 40 X 3 MM, 82297, SUIT ALTEK NOZZLE BODY GA5065845	1

## Nozzles - Direct Control - Dual Assembly



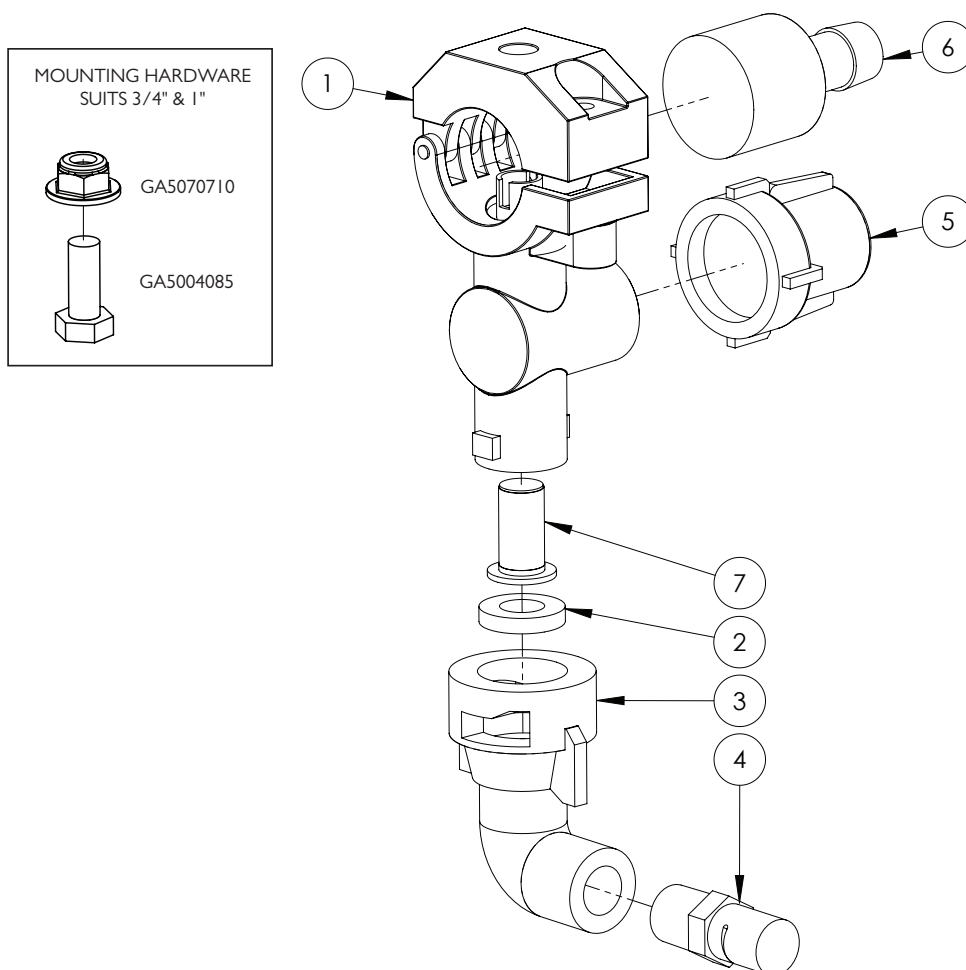
PART NUMBER	DESCRIPTION	QTY.
GA5078544	DUAL SOLENOID VALVE, INCLUDING 200MM CABLES & DEUTSCH CONNECTORS	1
GA5065870	HOUSING MULTI-SPRAY 2-NOZZLE	1
GA5053739	O-RING	2
GA5053740	STAINLESS WASHER	2
GA5053741	LIP SEAL 6 X 12 X 4.2 MM	2
GA5065865	NOZZLE HOLDER 5° COMPLETE, 0°, 0°	2
GA5065855	U-CLIP AS20	2
GA5065885	STAINLESS PISTON COMPLETE WITH O-RING	2
GA5078497	O-RING, 23.5 X 2.6 MM, FPM80	-
GA5065880	SPRING	2
GA5065875	CYLINDER CAP	2
GA5065895	BLANKING PLUG	1
GA5055110	U-CLIP 30 X 41 X 2.5 MM	1
GA5078547	SEAL, WHITE PVC	4
GA5078545	BREATHER INSERT, 25.5 X 12 X 12 MM	1
GA5078546	CIRCLIP, 26 X 1.2 MM	1
GA5078548	PUSH FITTING, AIR LINE, 6MM	2

## Nozzles - Fence Line - Solenoid Operated



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077964	NOZZLE BODY, SINGLE, 3/4", TEEJET	1
	GA5077988	NOZZLE BODY, SINGLE, 1", TEEJET	1
	GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1
	GA5004085	BOLT M8 X 20 GR8.8 ZP	1
2	GA5055245	WASHER, NOZZLE CAP SEAL, RUBBER, 19 OD X 9MM ID	1
3	GA5077986	NOZZLE CAP & WASHER, 90 DEGREE CAP, 1/4" NPT FEMALE OUTLET	1
4	GA8100339	NOZZLE, FENCE LINE, ORANGE, POLYMER, LEFT SIDE, 1/4" NPT, TEEJET	1
	GA8100340	NOZZLE, FENCE LINE, ORANGE, POLYMER, RIGHT SIDE, 1/4" NPT, TEEJET	1
5	GA5071785	SOLENOID, E-CHEMSAVER SUIT 2 PIN METRI-PACK, FENCE LINE	1
6	GA5077497	HOSE BARB SUIT NOZZLE BODY, SINGLE 1/2", NYLON, TEEJET	1
7	GA5076947	CHECK VALVE & FILTER SCREEN, NOZZLE TIP, 5PSI VALVE, 50 MESH	1

## Nozzles - Fence Line - Manual Operated



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5077964	NOZZLE BODY, SINGLE, 3/4", TEEJET	1
	GA5077962	NOZZLE BODY, SINGLE, 1", TEEJET	1
	GA5070710	NUT FLANGE PLASTIC M8 X 1.25	1
	GA5004085	BOLT M8 X 20 GR8.8 ZP	1
2	GA5055245	WASHER, NOZZLE CAP SEAL, RUBBER, 19 OD X 9MM ID	1
3	GA5077986	NOZZLE CAP & WASHER, 90 DEGREE CAP, 1/4" NPT FEMALE OUTLET	1
4	GA8100339	NOZZLE, FENCE LINE, ORANGE, POLYMER, LEFT SIDE, 1/4" NPT, TEEJET	1
	GA8100340	NOZZLE, FENCE LINE, ORANGE, POLYMER, RIGHT SIDE, 1/4" NPT, TEEJET	1
5	GA5077074	CHEMSAVER, MANUAL SHUTOFF, MAXIMUM 150PSI PRESSURE, TEEJET	1
6	GA5077497	HOSE BARB SUIT NOZZLE BODY, SINGLE 1/2", NYLON, TEEJET	1
7	GA5076947	CHECK VALVE & FILTER SCREEN, NOZZLE TIP, 5PSI VALVE, 50 MESH	1

## Nozzles - Tip Strainers

PART NUMBER	DESCRIPTION
GA5076947	TIP STRAINER, CHECK VALVE, 5 PSI, POLYPROPYLENE / STAINLESS STEEL, 50 MESH, TEEJET
GA5077158	TIP STRAINER, POLYPROPYLENE / STAINLESS STEEL, 24 MESH, TEEJET
GA5077159	TIP STRAINER, POLYPROPYLENE / STAINLESS STEEL, 50 MESH, TEEJET
GA5077160	TIP STRAINER, POLYPROPYLENE / STAINLESS STEEL, 80 MESH, TEEJET
GA5077156	TIP STRAINER, POLYPROPYLENE / STAINLESS STEEL, 100 MESH, TEEJET
GA5077157	TIP STRAINER, POLYPROPYLENE / STAINLESS STEEL, 200 MESH, TEEJET

## Nozzles - IDK - Cap

PART NUMBER	DESCRIPTION
GA8100464	CAP TO SUIT IDK NOZZLE
GA5055245	CAP WASHER, IDK NOZZLE

## Nozzles - IDK - Tips

PART NUMBER	DESCRIPTION	STRAINER
GA8100018	IDK 120-01, ORANGE, LECHLER	80 MESH
GA8100019	IDK 120-015, GREEN, LECHLER	50 MESH
GA8100020	IDK 120-02, YELLOW, LECHLER	50 MESH
GA8100021	IDK 120-025, PURPLE, LECHLER	50 MESH
GA8100022	IDK 120-03, BLUE, LECHLER	50 MESH
GA8100023	IDK 120-04, RED, LECHLER	50 MESH
GA8100024	IDK 120-05, BROWN, LECHLER	24 MESH
GA8100025	IDK 120-06, GREY, LECHLER	24 MESH
GA8100026	IDK 120-08, WHITE, LECHLER	24 MESH

## Nozzles - ID3 - Cap

PART NUMBER	DESCRIPTION
GA8100059	CAP TO SUIT ID3 NOZZLE
GA5055245	CAP WASHER, ID3 NOZZLE

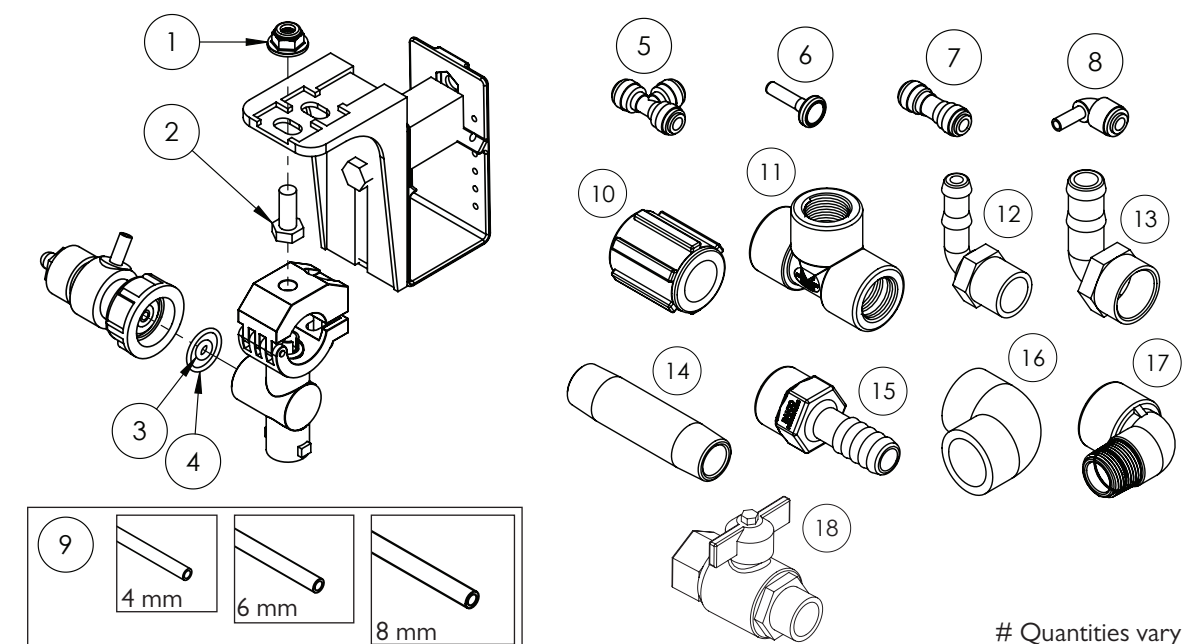
## Nozzles - ID3 - Tips

PART NUMBER	DESCRIPTION	STRAINER
GA8100000	ID3 I20-01, ORANGE, LECHLER	80 MESH
GA8100001	ID3 I20-015, GREEN, LECHLER	50 MESH
GA8100002	ID3 I20-02, YELLOW, LECHLER	50 MESH
GA8100003	ID3 I20-025, PURPLE, LECHLER	50 MESH
GA8100004	ID3 I20-03, BLUE, LECHLER	50 MESH
GA8100005	ID3 I20-04, RED, LECHLER	50 MESH
GA8100006	ID3 I20-05, BROWN, LECHLER	24 MESH
GA8100007	ID3 I20-06, GREY, LECHLER	24 MESH
GA8100008	ID3 I20-08, WHITE, LECHLER	24 MESH

## Nozzles - AIXR - Tips

PART NUMBER	DESCRIPTION	STRAINER
GA8100429	AIXRI I0015VP, GREEN 015, POLYMER, TEEJET	100 MESH
GA8100430	AIXRI I0025VP, VIOLET 025, POLYMER, TEEJET	50 MESH
GA8100431	AIXRI I002VP, YELLOW 02, POLYMER, TEEJET	50 MESH
GA8100432	AIXRI I003VP, BLUE 03, POLYMER, TEEJET	50 MESH
GA8100433	AIXRI I004VP, RED 04, POLYMER, TEEJET	50 MESH
GA8100434	AIXRI I005VP, BROWN 05, POLYMER, TEEJET	50 MESH
GA8100435	AIXRI I006VP, GREY 06, POLYMER, TEEJET	50 MESH

## Plumbing Lines - Miscellaneous



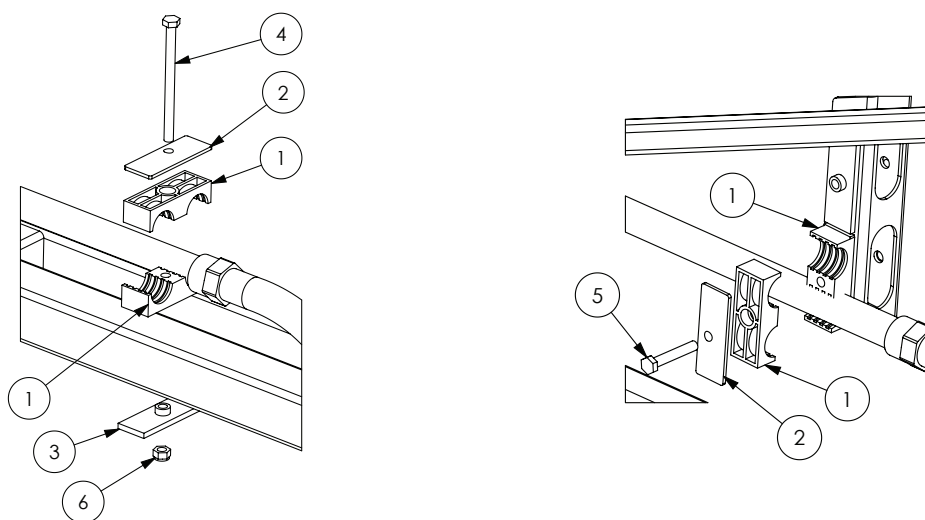
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5070710	NUT WITH FLANGE, PLASTIC, M8 X 1.25P	#
2	GA5004085	BOLT M8 X 20 GR8.8 ZP	#
3	GA5065521	O RING, 6.02 X 2.62 MM, SUITS SPRAY STOP INNER	#
4	GA5053135	O RING, 18 X 2 MM, SUIT SPRAY STOP OUTER	#
	GA5016246	TEE, EQUAL, 4MM PUSH IN TYPE, BLACK PLASTIC	#
5	GA5016245	TEE, EQUAL, 6MM PUSH IN TYPE, BLACK PLASTIC	#
	GA5067010	TEE, EQUAL, 8MM PUSH IN TYPE, BLACK PLASTIC	#
6	GA5004405	PLUG, PUSH IN, 6MM	#
	GA5066991	PNEUMATIC FITTING, PUSH IN, JOINER, 6MM	#
7	GA5054600	PUSH IN FITTING, REDUCER, STRAIGHT, 6MM TO 4MM	#
	GA5065175	PUSH IN FITTING, REDUCER, STRAIGHT, 8MM TO 6MM	#
8	GA5071215	STEM ELBOW, SUIT 6MM AIR LINE, PUSH IN	#
	GA5004384	TUBE, NYLON, 4MM, BLACK	#
	GA5004386	TUBE, NYLON, 4MM, BLUE	#
9	GA5004383	TUBE, NYLON, 6MM, BLACK	#
	GA5004385	TUBE, NYLON, 6MM, BLUE	#
	GA7000002	TUBE, NYLON, 6MM, RED	#
	GA5004382	TUBE, NYLON, 8MM, BLACK	#
10	GA5077637	COUPLING, SOCKET, 3/4" FEMALE THREAD	#
	GA5077638	COUPLING, SOCKET, 1" FEMALE THREAD	#
11	GA5078150	TEE, THREADED, 3/4" FEMALE	#
	GA5078151	TEE, THREADED, 1" FEMALE	#
	GA5077710	HOSE BARB, ELBOW, 90 DEGREE, 3/4" MALE THREAD X 1/2" HOSE	#
12	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE THREAD X 1" HOSE	#



## Plumbing Lines - Miscellaneous

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
13	GA5077746	HOSE BARB, ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" HOSE	#
14	GA5049090	BSP RISER 3/4" X 100 MM	#
15	GA5077743	HOSE BARB, STRAIGHT, 3/4" FEMALE X 3/4" HOSE	#
	GA5077747	HOSE BARB, STRAIGHT, 1" FEMALE THREAD X 1" HOSE	#
16	GA5077653	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD	#
	GA5077655	STREET ELBOW, 90 DEGREE, 1" FEMALE THREAD	#
	GA5078135	STREET ELBOW, 90 DEGREE, 3/4" FEMALE THREAD X 3/4" MALE THREAD	#
17	GA5078137	STREET ELBOW, 90 DEGREE, 1" FEMALE THREAD X 1" MALE THREAD	#
18	GA5018315	VALVE, BALL, 20MM MALE & FEMALE THREAD, BLACK BUTTERFLY HANDLE	#

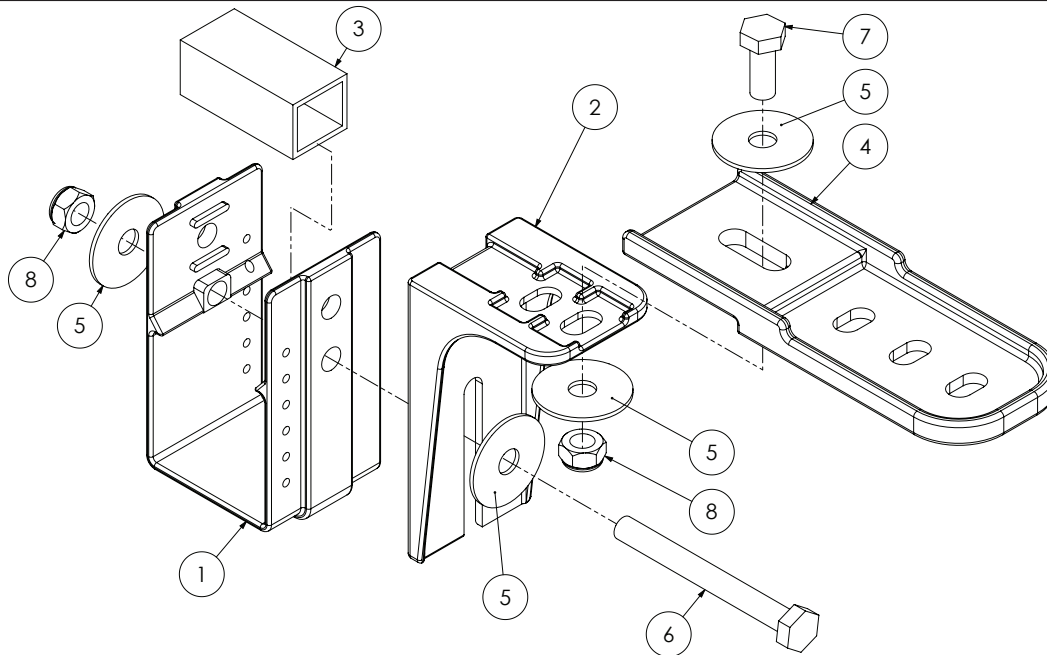
## Boom Pipe Clamps - Singles



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5078038	RCD CLAMP JAWS, DOUBLE 28MM HOSE, BLACK POLYPROPYLENE	#
2	GA5078049	HOSE CLAMP, DOUBLE RCD, TOP PLATE, GRADE 4, SUIT CLAMP 28-30	#
3	GA5078048	DOUBLE CLAMP PLATE BOTTOM GR4	#
4	GA5011501	BOLT M8 X 120 GR8.8 ZP	#
5	GA5004727	BOLT M8 X 50 ZP GR8.8	#
6	GA5052590	NUT M8 NYLOC SS	#

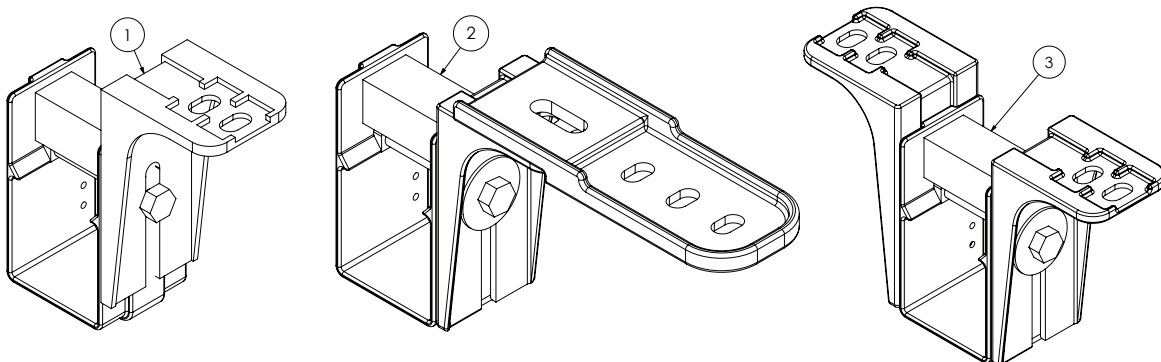
# Quantities vary

## Plumbing Lines - Nozzle Brackets



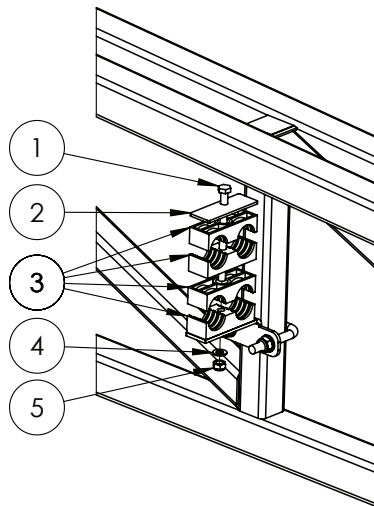
ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	GA5018259	NOZZLE BRACKET, PLASTIC, U SHAPE	1
2	GA5018257	NOZZLE BRACKET, PLASTIC, L SHAPE, SHORT	1
	GA5018258	NOZZLE BRACKET, PLASTIC, L SHAPE, LONG	1
3	GA5066965	SPACER SUIT NOZZLE BRACKETS	1
4	GA5018255	BRACKET, NOZZLE EXTENSION, PLASTIC	1
5	GA5003645	WASHER 5/16" ID X 1 1/4" OD FLAT SS	4
6	GA5004741	BOLT M8 X 75 GR8.8 ZP	1
7	GA5004085	BOLT M8 X 20 GR8.8 ZP	1
8	GA5004917	NUT M8 NYLOC ZP	2

## Plumbing Lines - Nozzle Bracket Kits

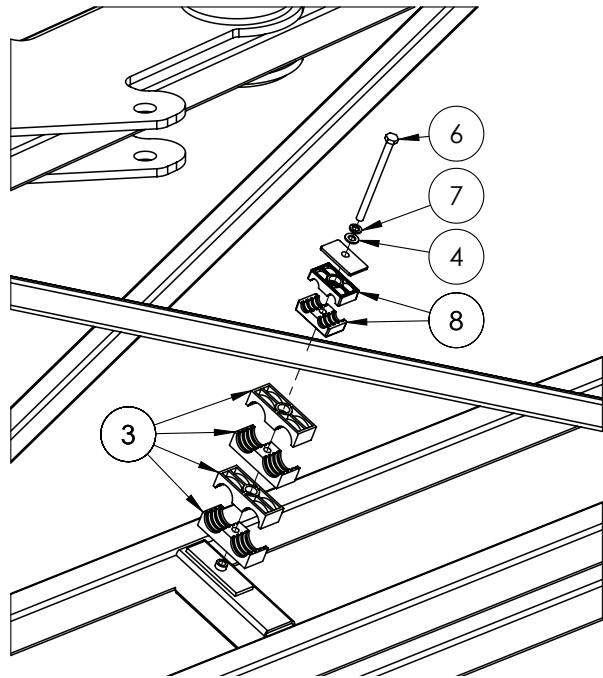


ITEM NO.	PART NUMBER	DESCRIPTION
1	GA4948675-SK	NOZZLE BRACKET KIT, SINGLE LINE, SUIT 50MM RHS
2	GA4948695-SK	NOZZLE BRACKET KIT, SINGLE LINE WITH EXTENSION, SUIT 50MM RHS
3	GA4948685-SK	NOZZLE BRACKET KIT, DUAL LINE, SUIT 50MM RHS

# 



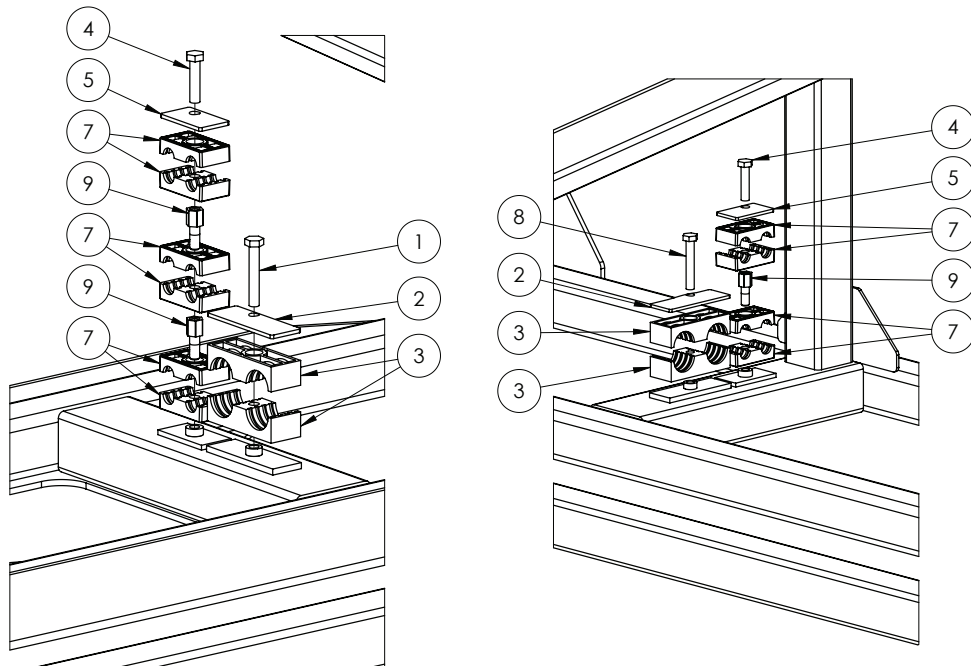
ALUMINIUM OUTER WING



STEEL INNER WING

# Quantities vary			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5004933	BOLT M8 X 110 GR8.8 ZP	#
2	GA5078049	MOUNTING CLAMP, DOUBLE TYPE, PLATE, TOP, GROUP 4	#
3	GA5078038	MOUNTING CLAMP, DOUBLE TYPE, JAW, PAIR, GROUP 4, 28MM	#
4	GA5003643	WASHER 8MM FLAT SS HD	#
5	GA5052590	NUT M8 NYLOC SS	#
6	GA5011501	BOLT M8 X 120 GR8.8 ZP	#
7	GA5004919	WASHER 8MM SPRING SS	#
8	GA5078031	MOUNTING CLAMP, DOUBLE TYPE, JAW, PAIR, GROUP 2, 14MM	#

## Boom Pipe Clamps - 48m

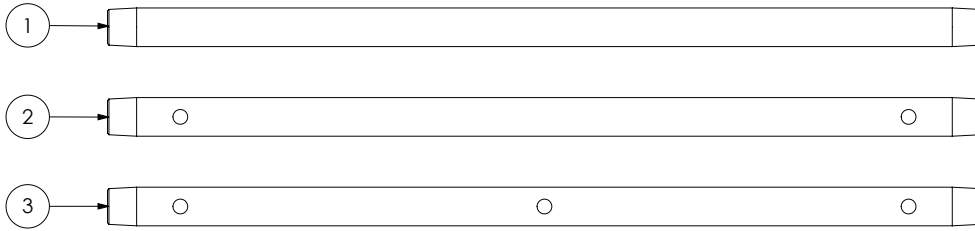


STEEL INNER WING

# Quantities vary

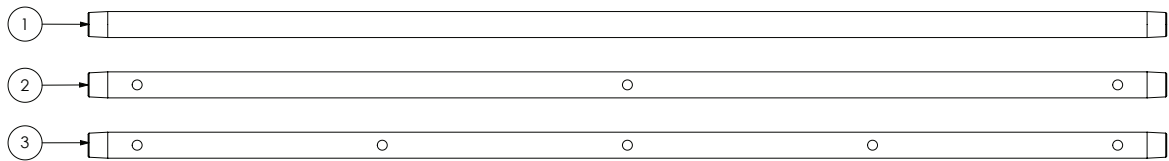
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	GA5004727	BOLT M8 X 50 GR8.8 ZP	#
2	GA5078049	MOUNTING CLAMP, DOUBLE TYPE, PLATE, TOP, GROUP 4	#
3	GA5078038	MOUNTING CLAMP, DOUBLE TYPE, JAW, PAIR, GROUP 4, 28MM	#
4	GA5011481	BOLT M8 X 35 GR8.8 ZP	#
5	GA5078042	DOUBLE CLAMP PLATE TOP GR2	#
6	GA4600635	BOOM WING, INNER, 48M, LH, STEEL	#
7	GA5078031	DOUBLE CLAMP JAWS PP GR 2 14MM	#
8	GA5054700	BOLT M8 X 50 SS A2-70	#
9	GA5070740	BUILD UP BOLT, STACKING, M8 X 20, WITH WASHER	#
	GA5070760	LOCKING PLATE SUIT HYDAC CLAMPS, BUILD UP BOLT, STACKING	#

## Boom Poly - 3/4" - 600mm



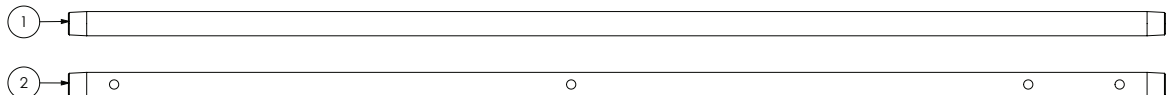
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018287	BOOM LINE, POLY, 3/4", 600 LONG, NO HOLES
2	GA2000510	BOOM LINE, POLY, 3/4", 600 LONG, 2 HOLES, 500MM SPACING
3	GA2000511	BOOM LINE, POLY, 3/4", 600 LONG, 3 HOLES, 250MM SPACING

## Boom Poly - 3/4" - 1100mm



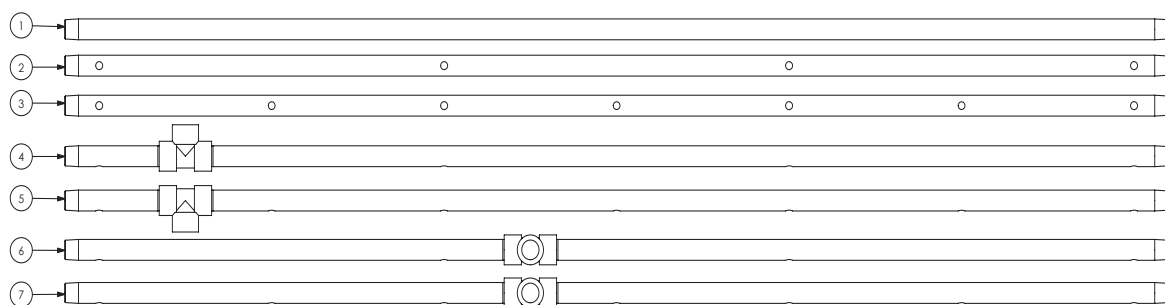
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018269	BOOM LINE, POLY, 3/4", 1100 LONG, NO HOLES
2	GA2000506	BOOM LINE, POLY, 3/4", 1100 LONG, 3 HOLES, 500MM SPACING
3	GA2000507	BOOM LINE, POLY, 3/4", 1100 LONG, 5 HOLES, 250MM SPACING

## Boom Poly - 3/4" - 1200mm



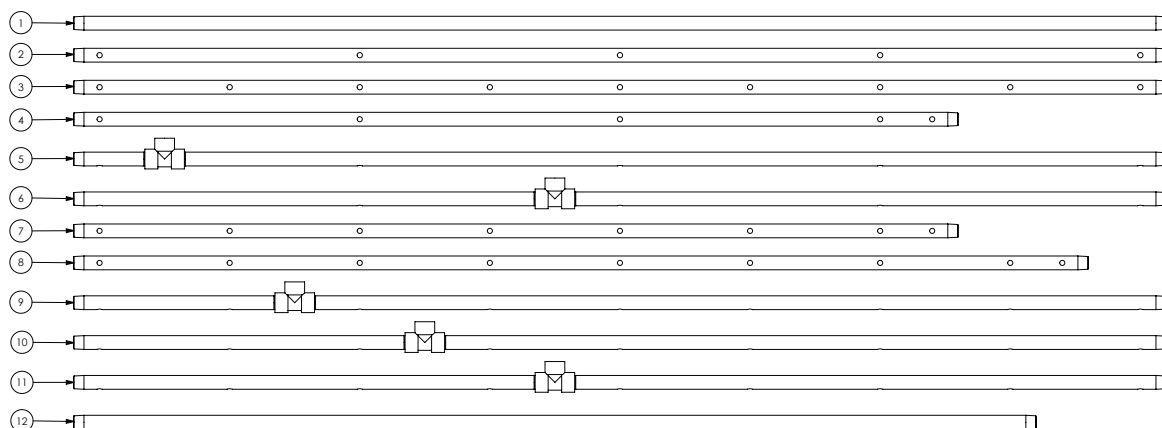
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018271	BOOM LINE, POLY, 3/4", 1200 LONG, NO HOLES
2	GA2000515	BOOM LINE, POLY, 3/4", 1200 LONG, 3 HOLES PLUS FENCELINE, 500MM SPACING

## Boom Poly - 3/4" - 1600mm



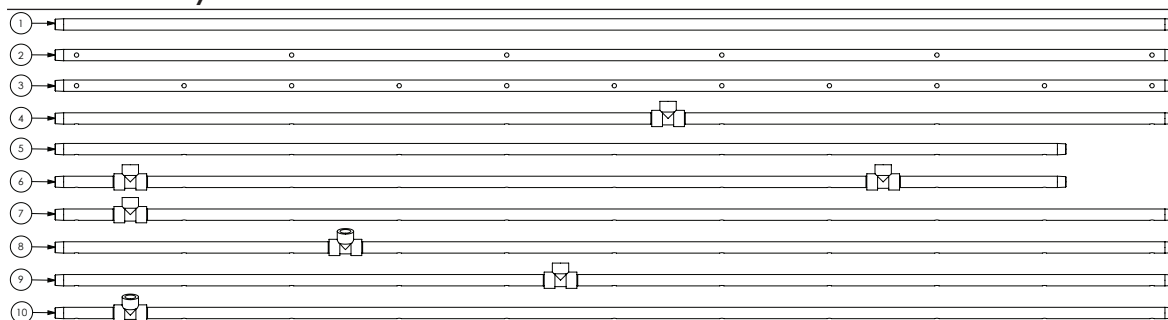
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018273	BOOM LINE, POLY, 3/4", 1600 LONG, NO HOLES
2	GA2000500	BOOM LINE, POLY, 3/4", 1600 LONG, 4 HOLES, 500MM SPACING
3	GA2000501	BOOM LINE, POLY, 3/4", 1600 LONG, 7 HOLES, 250MM SPACING
4	GA2000520	BOOM LINE, POLY, 3/4", 1600 LONG, 4 HOLES, 500MM SPACING, TEE 175MM
5	GA2000521	BOOM LINE, POLY, 3/4", 1600 LONG, 7 HOLES, 250MM SPACING, TEE 175MM
6	GA2000522	BOOM LINE, POLY, 3/4", 1600 LONG, 4 HOLES, 500MM SPACING, TEE 675MM 90 DEG.
7	GA2000523	BOOM LINE, POLY, 3/4", 1600 LONG, 7 HOLES, 250MM SPACING, TEE 675MM 90 DEG.

## Boom Poly - 3/4" - 2100mm



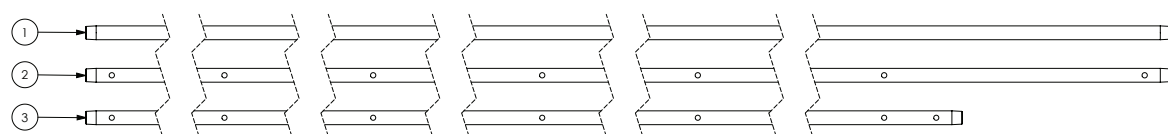
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018275	BOOM LINE, POLY, 3/4", 2100 LONG, NO HOLES
2	GA2000502	BOOM LINE, POLY, 3/4", 2100 LONG, 5 HOLES, 500MM SPACING
3	GA2000503	BOOM LINE, POLY, 3/4", 2100 LONG, 9 HOLES, 250MM SPACING
4	GA2000525	BOOM LINE, POLY, 3/4", 1700 LONG, 4 HOLES PLUS FENCELINE, 500MM SPACING
5	GA2000526	BOOM LINE, POLY, 3/4", 2100 LONG, 5 HOLES, 500MM SPACING, TEE 175MM
6	GA2000527	BOOM LINE, POLY, 3/4", 2100 LONG, 5 HOLES, 500MM SPACING, TEE 925MM
7	GA2000530	BOOM LINE, POLY, 3/4", 1700 LONG, 7 HOLES PLUS FENCELINE, 250MM SPACING
8	GA2000531	BOOM LINE, POLY, 3/4", 1950 LONG, 8 HOLES PLUS FENCELINE, 250MM SPACING
9	GA2000532	BOOM LINE, POLY, 3/4", 2100 LONG, 9 HOLES, 250MM SPACING, TEE 425MM
10	GA2000533	BOOM LINE, POLY, 3/4", 2100 LONG, 9 HOLES, 250MM SPACING, TEE 675MM
11	GA2000534	BOOM LINE, POLY, 3/4", 2100 LONG, 9 HOLES, 250MM SPACING, TEE 925MM
12	GA2000535	BOOM LINE, POLY, 3/4, 1850 LONG, 8 HOLES, 250MM SPACING

## Boom Poly - 3/4" - 2600mm



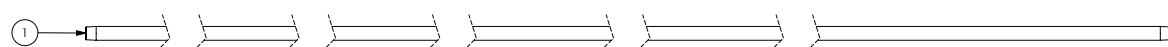
ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018279	BOOM LINE, POLY, 3/4", 2600 LONG, NO HOLES
2	GA2000504	BOOM LINE, POLY, 3/4", 2600 LONG, 6 HOLES, 500MM SPACING
3	GA2000505	BOOM LINE, POLY, 3/4", 2600 LONG, 11 HOLES, 250MM SPACING
4	GA2000540	BOOM LINE, POLY, 3/4", 2600 LONG, 6 HOLES, 500MM SPACING, TEE 175MM
5	GA2000541	BOOM LINE, POLY, 3/4", 2350 LONG, 10 HOLES, 250MM SPACING
6	GA2000542	BOOM LINE, POLY, 3/4", 2600 LONG, 10 HOLES, 250MM SPACING, TEE 175MM & 1925MM
7	GA2000543	BOOM LINE, POLY, 3/4", 2600 LONG, 11 HOLES, 250MM SPACING, TEE 175MM
8	GA2000544	BOOM LINE, POLY, 3/4", 2600 LONG, 11 HOLES, 250MM SPACING, TEE 675MM ANGLED
9	GA2000545	BOOM LINE, POLY, 3/4", 2600 LONG, 11 HOLES, 250MM SPACING, TEE 175MM
10	GA2000546	BOOM LINE, POLY, 3/4", 2600 LONG, 11 HOLES, 250MM SPACING, TEE 175MM ANGLED

## Boom Poly - 3/4" - 3100mm



ITEM NO.	PART NUMBER	DESCRIPTION
1	GA5018281	BOOM LINE, POLY, 3/4", 3100 LONG, NO HOLES
2	GA2000508	BOOM LINE, POLY, 3/4", 3100 LONG, 7 HOLES, 500MM SPACING
3	GA2000550	BOOM LINE, POLY, 3/4", 2700 LONG, 6 HOLES, 500MM SPACING

## Boom Poly - 1" - 6000mm

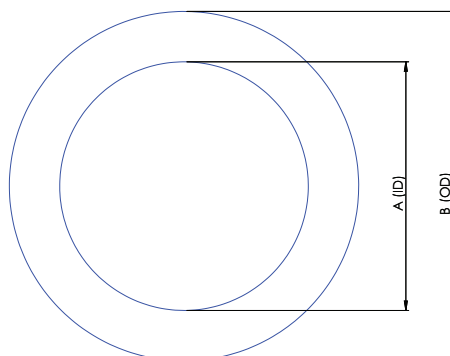


ITEM NO.	PART NUMBER	DESCRIPTION
1	GA2000130	BOOM LINE, POLY, 1", 6000MM LENGTH, NO HOLES

NOTE: The 1" boom poly is used exclusively on the 48 metre boom option.



# Hoses



## SUCTION HOSE

PART NUMBER	DESCRIPTION	INTERNAL DIAMETER (A)	OUTSIDE DIAMETER (B)
GA2000218	20MM SUCTION HOSE	20MM	32MM
GA2000222	25MM SUCTION HOSE	25MM	35MM
GA2000224	32MM SUCTION HOSE	32MM	45MM
GA2000226	38MM SUCTION HOSE	38MM	48MM
GA2000229	51MM SUCTION HOSE	51MM	63MM
GA2000230	63MM SUCTION HOSE	63MM	76MM
GA2000232	75MM SUCTION HOSE	75MM	93MM

NOTE: Suction hose can be identified by its external green stripe and wire reinforcement.

## PRESSURE HOSE

PART NUMBER	DESCRIPTION	INTERNAL DIAMETER (A)	OUTSIDE DIAMETER (B)
GA2000200	7MM PRESSURE HOSE	7MM	12.5MM
GA2000211	13MM PRESSURE HOSE	13MM	20MM
GA2000216	20MM PRESSURE HOSE	20MM	28MM
GA2000219	25MM PRESSURE HOSE	25MM	34MM
GA2000223	32MM PRESSURE HOSE	32MM	43MM
GA2000225	38MM PRESSURE HOSE	38MM	48MM

NOTE: Pressure hose can be identified by its blue internal layer.

## PVC HOSE

PART NUMBER	DESCRIPTION	INTERNAL DIAMETER (A)	OUTSIDE DIAMETER (B)
GA2000220	25MM PVC HOSE	25MM	32MM
GA2000227	40MM PVC HOSE	40MM	50MM
GA2000228	50MM PVC HOSE	50MM	58MM

NOTE: PVC Hose can be identified by its ribbed outer surface.

## SIGHT TUBE HOSE

PART NUMBER	DESCRIPTION	INTERNAL DIAMETER (A)	OUTSIDE DIAMETER (B)
GA2000209	12MM CLEAR SIGHT TUBE HOSE	12MM	-
GA2000210	12MM CLEAR SIGHT TUBE HOSE WITH WIRE	12MM	-

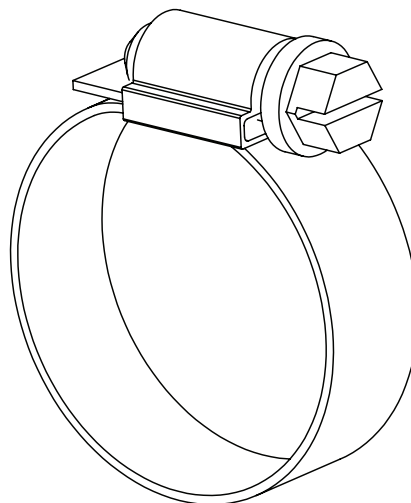
## LAY FLAT HOSE

PART NUMBER	DESCRIPTION	INTERNAL DIAMETER (A)	OUTSIDE DIAMETER (B)
GA2000220	25MM PVC HOSE	25MM	32MM

## Hose Clamps

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PART NUMBER	DESCRIPTION
GA5004865	8-16MM HOSE CLAMP
GA5000469	12-20MM HOSE CLAMP
GA5000999	16-25MM HOSE CLAMP
GA5001681	20-32MM HOSE CLAMP
GA5016813	25-40MM HOSE CLAMP
GA5002783	30-45MM HOSE CLAMP
GA5002873	32-50MM HOSE CLAMP
GA5003325	40-60MM HOSE CLAMP
GA5016815	50-70MM HOSE CLAMP
GA5004241	60-80MM HOSE CLAMP



## Cable Ties

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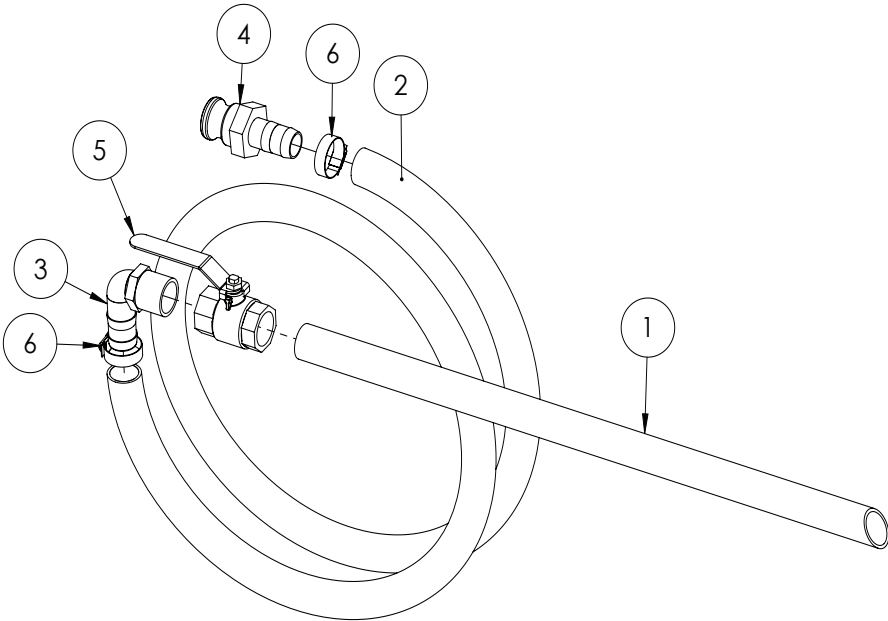
PART NUMBER	DESCRIPTION
GA5002173	CABLE TIE, BLACK, 100 X 2.5MM
GA5003517	CABLE TIE, BLACK, 140 X 3.5MM
GA5004455	CABLE TIE, BLACK, 190 X 4.5MM
GA5000685	CABLE TIE, BLACK, 320 X 7.5MM
GA5000687	CABLE TIE, BLACK, 360 X 4.5MM
GA5021235	CABLE TIE, BLACK, 540 X 7.5MM

## Spiral Guard

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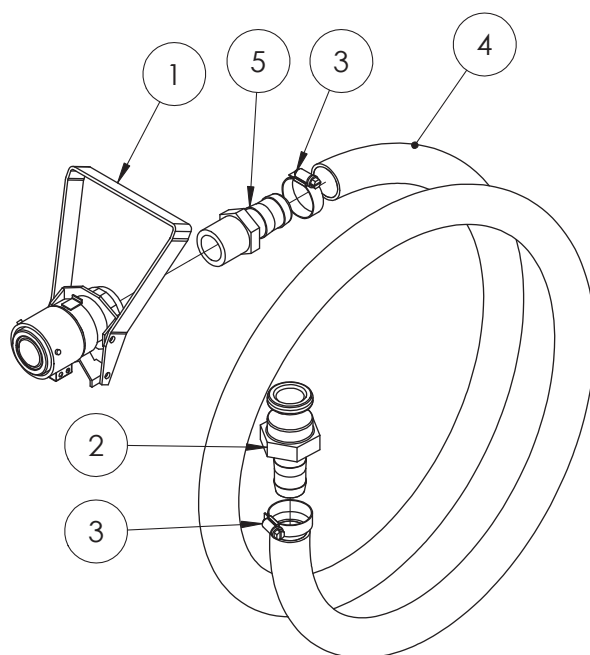
PART NUMBER	DESCRIPTION
GA5015669	SPIRAL GUARD, BLACK

# Chemical Probe Hose Lance

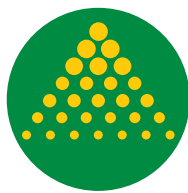


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA4948250	CHEMICAL SUCTION PROBE, ASSEMBLED	-
1	GA5013603	POLY PIPE 25 (CUT 630MM LONG)	1
2	GA2000220	HOSE, SUCTION, PVC, 25MM, BLACK - CUT 3200 MM LONG	1
3	GA5077723	HOSE BARB, ELBOW, 90 DEGREE, 1" MALE X 1" HOSE, BANJO	1
4	GA5076011	CAM LEVER, 1" MALE COUPLING X 1" HOSE BARB, BANJO	1
5	GA5018319	VALVE, BALL, 25MM FEMALE THREAD INLET / OUTLET, LEVER HANDLE, SS	1
6	GA5001681	HOSE CLAMP, 1" SS (20-32/12W)	2

## Enviro Coupling & Hose



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
-	GA5020600	ENVIRO DRUM / MICROMATIC COUPLING WITH SUCTION HOSE	-
	GA5018803	MICROMATIC DRUM VALVE COUPLING, 3 PIN, VITON SEALS	1
1	GA5018799	SEAL KIT, SUIT MICROMATIC / ENVIRO DRUM COUPLING GA5018803	-
2	GA5076011	CAM LEVER, 1" MALE COUPLING X 1" HOSE BARB, BANJO	1
3	GA5001681	HOSE CLAMP, 1" SS (20-32/12W)	2
4	GA2000220	HOSE, SUCTION, PVC, 25MM, BLACK - CUT 2840MM LONG	1
5	GA5077718	HOSE BARB, STRAIGHT, 1" MALE THREAD X 1" HOSE	1



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