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8 September 2008

## GOLDACRES/PATHWAY TERMS AND CONDITIONS OF SALE

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

### Interpretation

1. In these warranty terms and conditions:

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

### General

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

### Warranty Terms

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

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

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

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

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

### Limit of Liability

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

## CURRENT PART MANUAL REVISIONS

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Chapter	Current Revision	Revision Date
Introduction	00	15/4/10
1 - Chassis	00	15/4/10
2 - Pumps	00	15/4/10
3 - Flush Tank	00	15/4/10
4 - Air Components	00	15/4/10
5 - Liquid Controls	00	15/4/10
8 - Induction Hopper	00	15/4/10
9 - Foam Marker Tanks	00	15/4/10
10 - Transcal	00	15/4/10
11 - Main Tank	00	15/4/10
12 - Wheels, Axles & Mudguards	00	15/4/10
13 - Boom Centre	00	15/4/10
14 - Boom Wing	00	15/4/10
15 - Electrics	00	15/4/10
16 - Schematics	00	15/4/10
17 - Decals	00	15/4/10
18 - Hydraulics	00	15/4/10
19 - Filtration & Hose	00	15/4/10



# CHAPTER 1

## CHASSIS

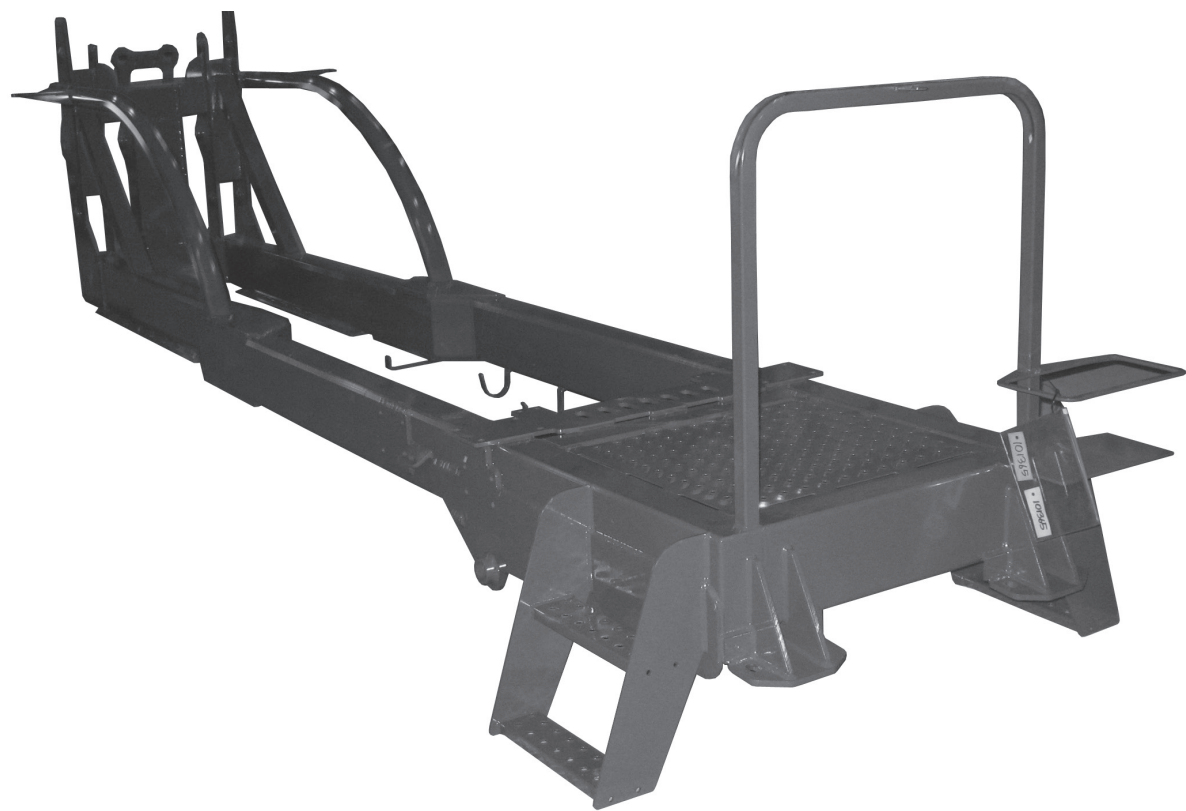


Main Chassis .....	I-2
Pull.....	I-3
Jack .....	I-4
Boom Rests.....	I-5
Steps .....	I-6
H-Frame .....	I-7
Towbars .....	I-7

Rev 00 15/4/10

MAIN CHASSIS

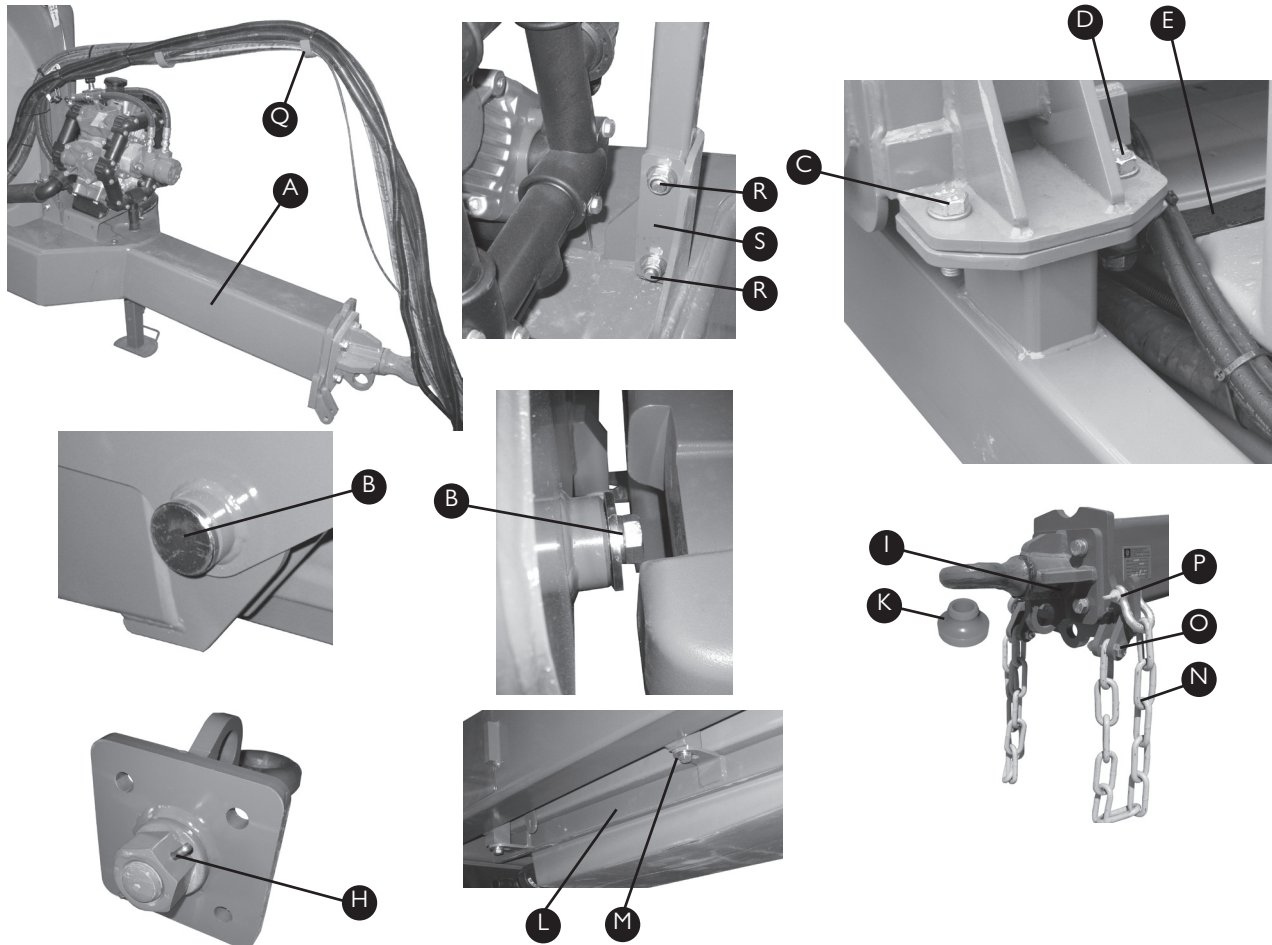
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Part No	Description
GA4657675	4/5000L Special Chassis (Bare)



## PULL



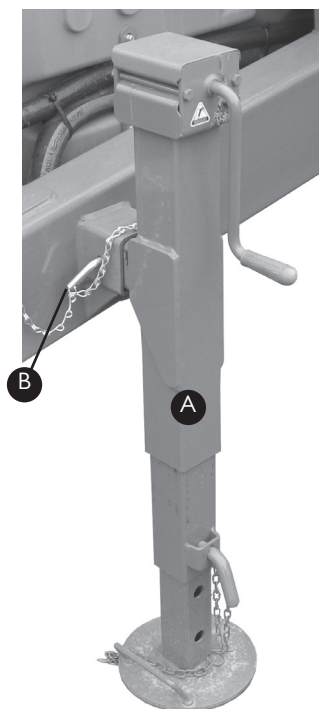
Item	Part No	Description	Quantity
A	GA4657670	Special 4/5000L EF Pull	1
B-1	PCH-019MACH	Pin	2
B-2	GA5011321	M20 x 50mm Bolt	2
B-3	L073A	Washer (69.2OD x 21.2ID)	2
B-4	GA5001721	20mm Spring Washer	2
C-1	GA5011333	M20 x 60mm Bolt	2
C-2	GA5048125	M20 Nyloc Nut	2
C-3	GA5001741	20mm Washer S/S	4
D-1	GA5048110	M20 x 120mm Bolt	2
D-2	GA5048125	M20 Nyloc Nut	2
D-3	GA5001741	20mm Washer S/S	4
D-4	L048A	Spacer	2
E	GA4522385	Rinse Tank Retainer Strap	1
F	GA4652486	Tow Eye Housing	1
G	GA5016243	50mm Tow Eye with Nut	1
H	GA5051385	M8 x 125mm Split Pin	1
I	GA5050450	6mm Grease Nipple	1
J-1	GA5001565	M20 x 70mm Bolt (ZP)	4

Item	Part No	Description	Quantity
J-2	GA5001721	20mm Spring Washer	4
J-3	GA5001741	20mm Washer S/S	4
K	GA4582455	1 1/4" Tow Eye Bush	1
L	GA4654320	Rinse Tank Cradle	1
M-1	GA5000311	M12 x 35mm Bolt	6
M-2	GA5000575	12mm Spring Washer	6
M-3	GA5000577	12mm Washer	6
N	GA5065030	Safety Chain (11 Links)	2
O-1	GA5011307	M16 x 80mm Bolt	2
O-2	GA5001029	M16 Nyloc Nut	2
O-3	GA5001043	16mm Washer	4
P	GA5000667	D Shackle	2
Q	GA4657665	Hose Support Arm	1
R-1	GA5006073	M10 x 75mm Bolt	2
R-2	GA5000141	M10 Nyloc Nut	2
R-3	GA5000139	10mm Washer	4
S	GA4522926	Support Arm Backing Plate	1

JACK

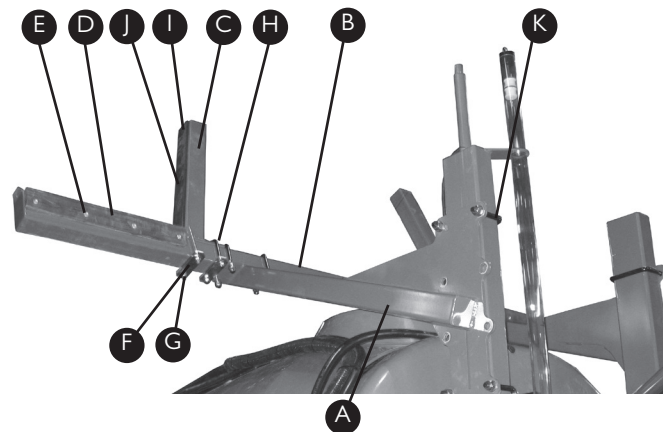
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Item	Part No	Description	Quantity
A	GA4657680	Jack	1
B	SP-IH-009MACH Retainer Pin		1



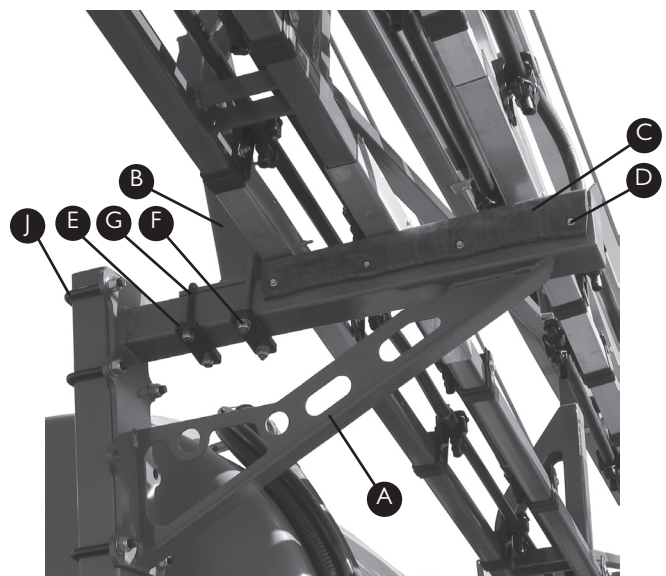
## BOOM RESTS

Item	Part No	Description	Quantity
A	GA4654216	Right Boom Rest	1
	GA4654217	Left Boom Rest	1
B	GA4654218	Boom Rest Cross Member	1
C	GA4654250-B	Boom Rest Upright	2
D	GA5014617	Boom Rest Rubber (350mm)	2
E	GA5000707	Tex Screw	16
F	F70107A	Upright Retainer Plate	4
G-1	GA5012461	M12 Nyloc Nut	4
G-2	GA500577	12mm Washer S/S	4
H-1	GA5011259	M12 x 76mm x 110mm U Bolt	6
H-2	GA5012461	M12 Nyloc Nut	12
H-3	GA5000577	12mm Washer S/S	12
I	GA5066630	Plastic Guide Plate	2
J	GA5051230	Screw	10
K-1	GA5011277	M16 x 127mm x 110mm U Bolt	4
K-2	GA5001029	M16 Nyloc Nut	8
K-3	GA5001043	16mm Washer S/S	8



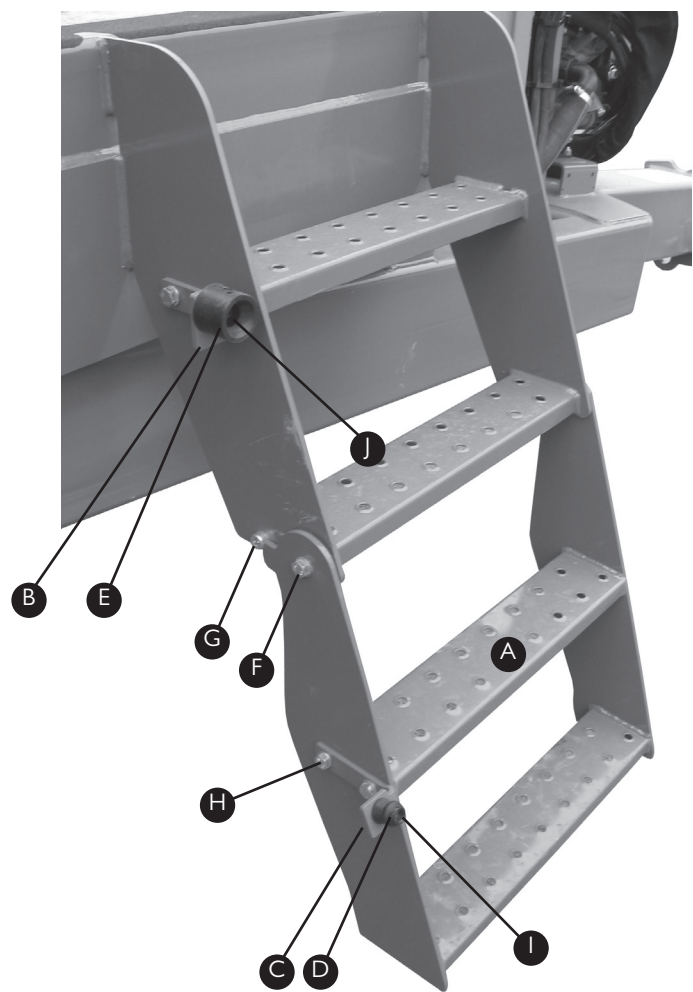
Used on all Delta Booms

Item	Part No	Description	Quantity
A	GA4654200	Right Boom Rest	1
	GA4654205	Left Boom Rest	1
B	GA4654250	Boom Rest Upright	1
C	GA5014621	Boom Rest Rubber (550mm)	1
D	GA5000707	Tex Screw	8
E	F70107A	Upright Retainer Plate	2
F-1	GA5012461	M12 Nyloc Nut	2
F-2	GA500577	12mm Washer S/S	2
G-1	GA5011259	M12 x 76mm x 110mm U Bolt	1
G-2	GA5012461	M12 Nyloc Nut	2
G-3	GA5000577	12mm Washer S/S	2
H	GA5066630	Plastic Guide Plate <sup>#</sup>	1
I	GA5051230	Screw <sup>#</sup>	5
J-1	GA5011277	M16 x 127mm x 110mm U Bolt	3
J-2	GA5001029	M16 Nyloc Nut	6
J-3	GA5001043	16mm Washer S/S	6



Used on all Tritech Booms

STEPS

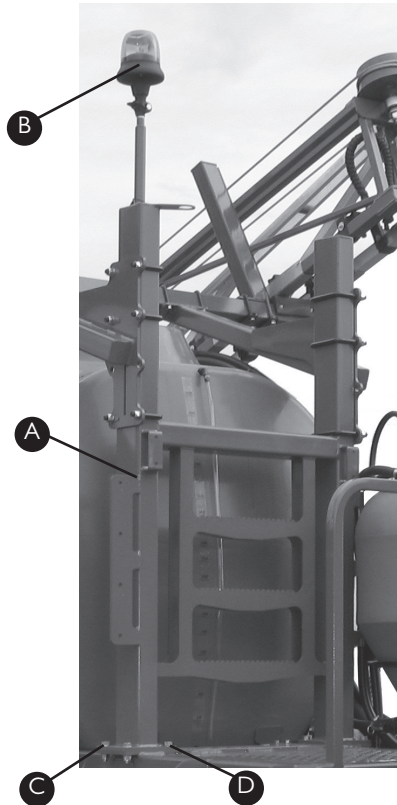


Item	Part No	Description	Quantity
A	GA4654582	Lower Steps	1
B	F70684A	Left Upper Catch Mount	1
	F70654A	Right Upper Catch Mount	1
C	GA4522617	Lower Catch Mount	1
D	GA5011607	Male Step Catch	1
E	GA5008629	Female Step Catch	1
F-1	GA5065455	M10 x 30mm Bolt	2
F-2	GA5000141	M10 Nyloc Nut	2
F-3	GA5000139	10mm Washer (ZP)	6
G-1	GA5011153	M10 x 20mm Cap Screw	2
G-2	GA5000141	M10 Nyloc Nut	2

Item	Part No	Description	Quantity
G-3	GA5000139	10mm Washer (ZP)	2
H-1	GA5065455	M10 x 30mm Bolt	4
H-2	GA5000141	M10 Nyloc Nut	4
H-3	GA5000139	10mm Washer (ZP)	8
I-1	GA5004079	M6 x 30mm Bolt	1
I-2	GA5048115	M6 Nyloc Nut	1
I-3	GA5004349	6mm Washer (ZP)	1
J-1	GA5004055	M6 x 20mm Cap Screw	1
J-2	GA5048115	M6 Nyloc Nut	1
J-3	GA5004349	6mm Washer (ZP)	2

Note: Left side shown. All parts the same for the right side except for item B, then use second part number listed

## H-FRAME



Item	Part No	Description	Quantity
A	GA4654180	H-Frame	1
B-1	GA5048975	Beacon Light*	1
B-2	GA5020411	Beacon Insert, Screw In*#	1
C-1	GA5000941	M16 x 60mm Bolt	4
C-2	GA5001029	M16 Nyloc Nut	4

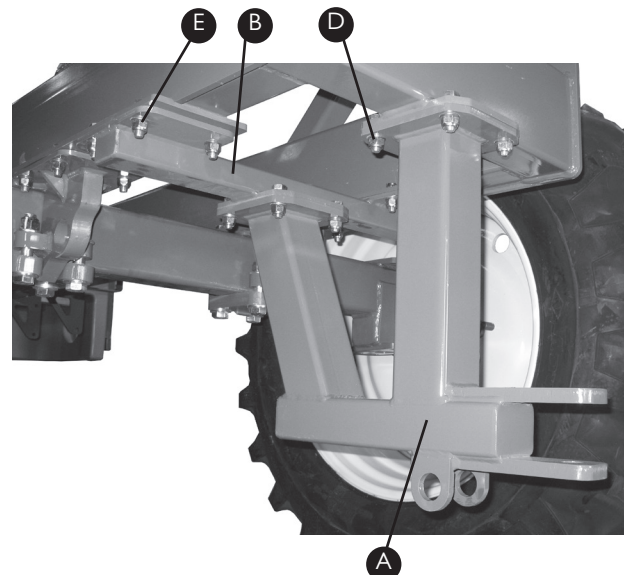
Item	Part No	Description	Quantity
C-3	GA5001043	16mm S/S Washer	8
D-1	GA5000931	M16 x 50mm Bolt	4
D-2	GA5001029	M16 Nyloc Nut	4
D-3	GA5001043	16mm S/S Washer	8

\*Only Fitted when road pack option is selected.

# Only used on machines manufactured from Nov. 2009 onwards (Build Seq. No. 18529), previously welded on.

## TOWBARS

Item	Part No	Description	Quantity
A	GA4655466	Towbar	1
B	GA4655467	Towbar Mount to suit Rigid Axle	1
	GA4655468	Towbar Mount to suit Tanker	1
C	GA5051930	Towbar Pin with Chain	1
D-1	GA5000931	M16 x 50mm Bolt	8
D-2	GA5001029	M16 Nyloc Nut	8
D-3	GA5001043	16mm Washer S/S	16
E-1	GA5000931	M16 x 50mm Bolt	4
E-2	GA5001029	M16 Nyloc Nut	4
E-3	GA5001043	16mm Washer S/S	8

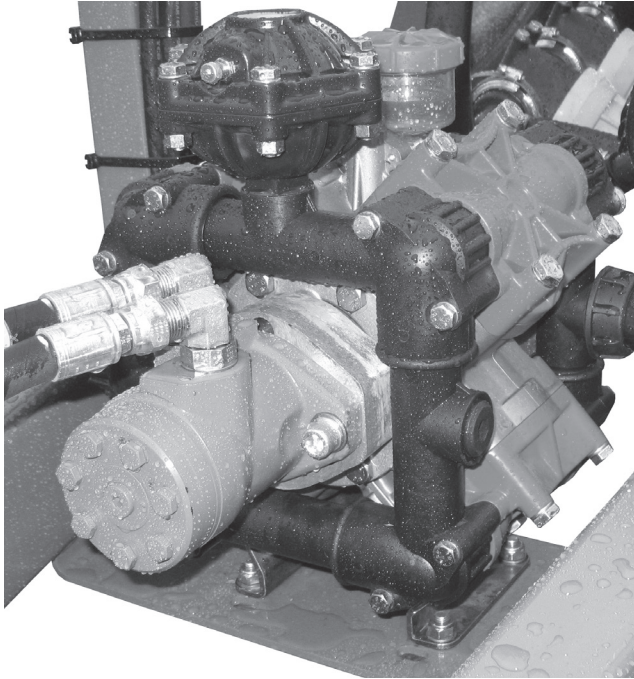






# CHAPTER 2

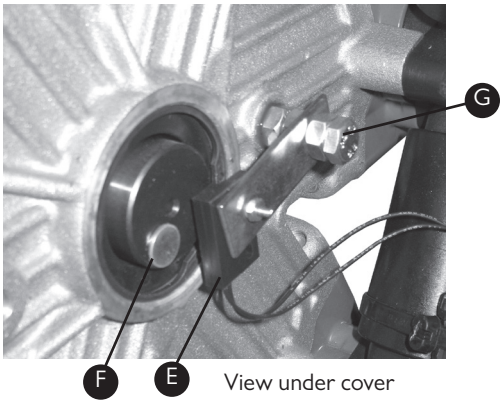
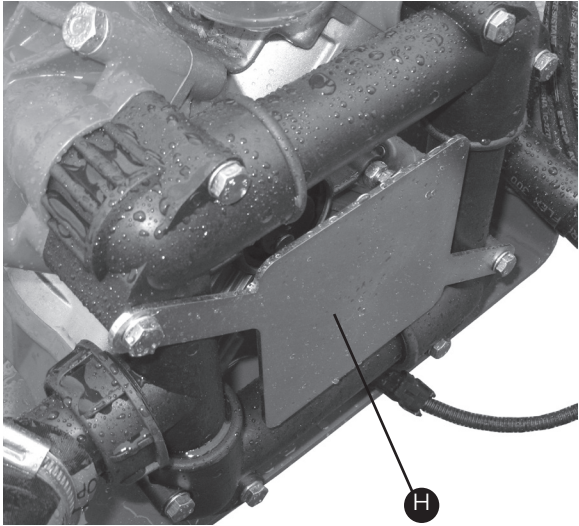
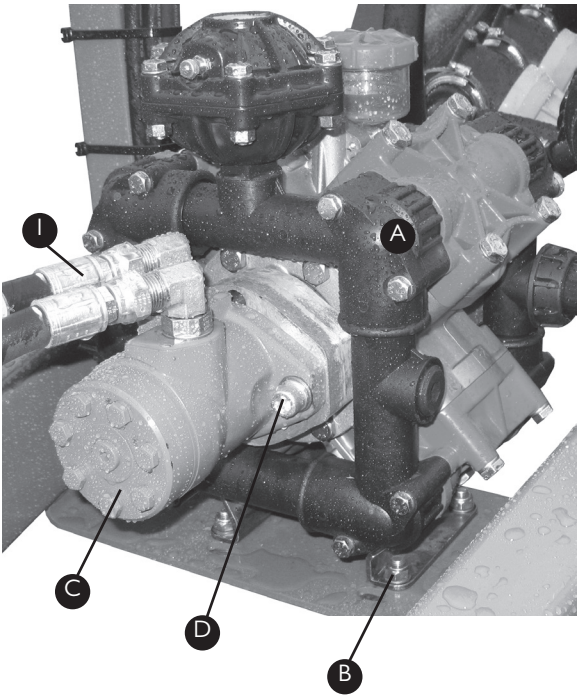
## PUMPS



Hydraulic Drive Pumps . . . . .	2-2
Hydraulic Hose Kit . . . . .	2-3
PTO Drive Pumps . . . . .	2-4
160l/min Pump Breakdown . . . . .	2-5

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HYDRAULIC DRIVE PUMPS



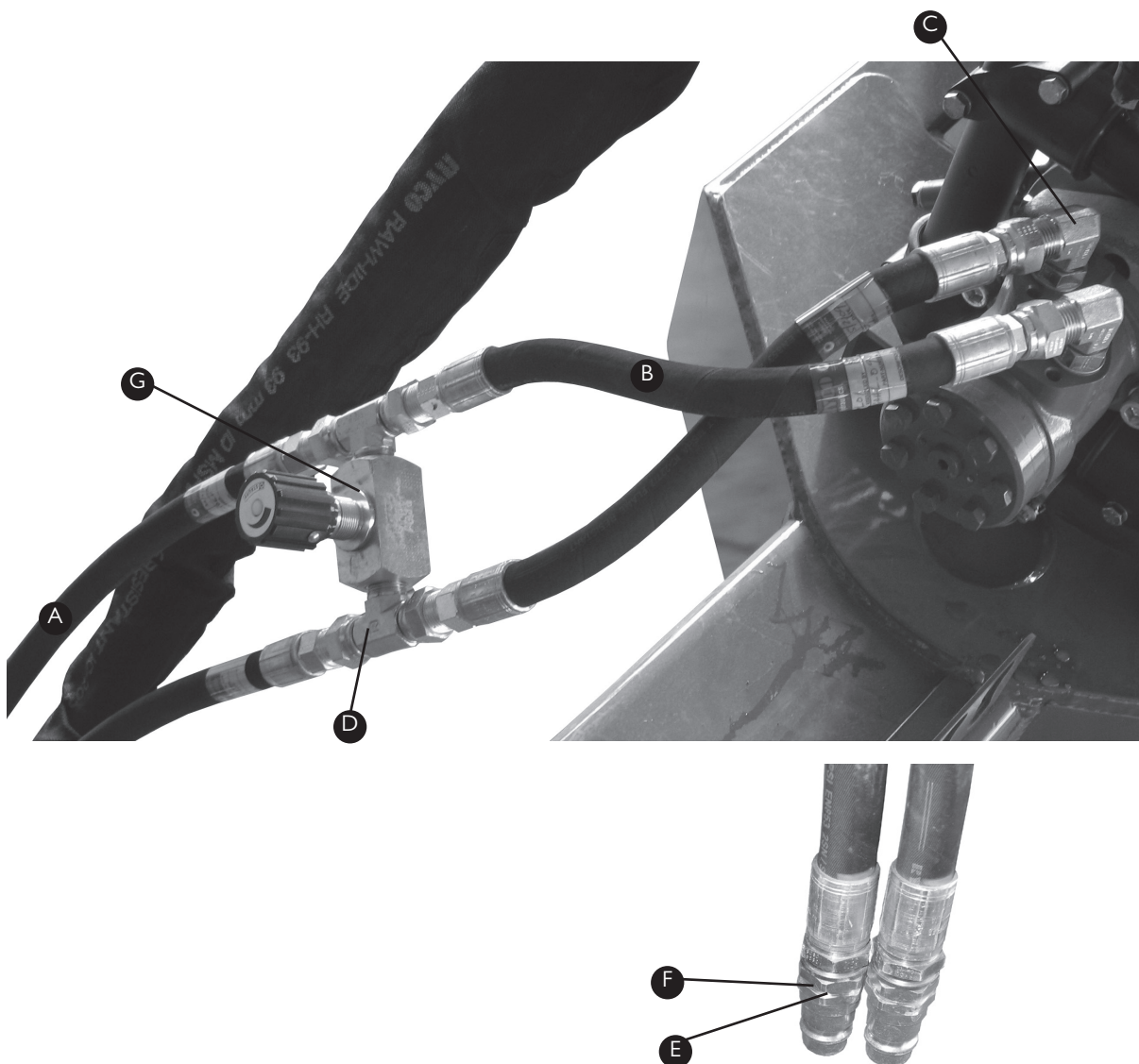
View under cover

Assembly Part No GA4900663-PA-EF			
Item	Part No	Description	Quantity
A	RO160MI	160l/min Pump (Hydraulic Drive) I	
B-1	GA5065455	M10 x 30mm Bolt	4
B-2	GA5000141	M10 Nyloc	4
B-3	GA5000139	10mm Washer	4
B-4	GA5002627	3/8" Washer	4
C	GA5047515	Hydraulic Motor 80cc	1
D-1	GA5000319	M12 x 40mm Bolt	2
D-2	GA5000575	12mm Spring Washer	2

Item	Part No	Description	Quantity
D-3	GA5000577	12mm Washer	2
E	GA5076331	RPM Sensor (SCS440/450)	1
F	GA5016169	Super Magnet	1
G-1	GA5048655	M8 x 40mm Bolt	1
G-2	GA5011499	M8 Plain Nut	2
H	PUMPCOVER	Pump Cover for 160L pump	1
I	GA5067185-EF	Hydraulic Hose Kit	1



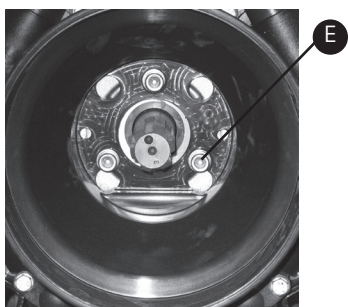
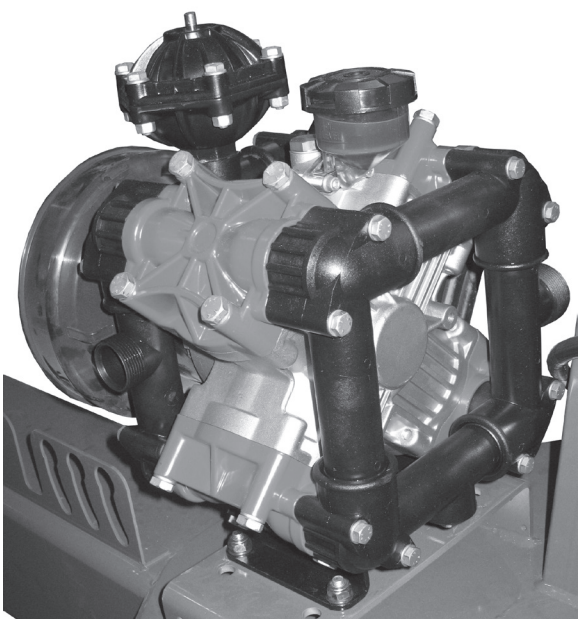
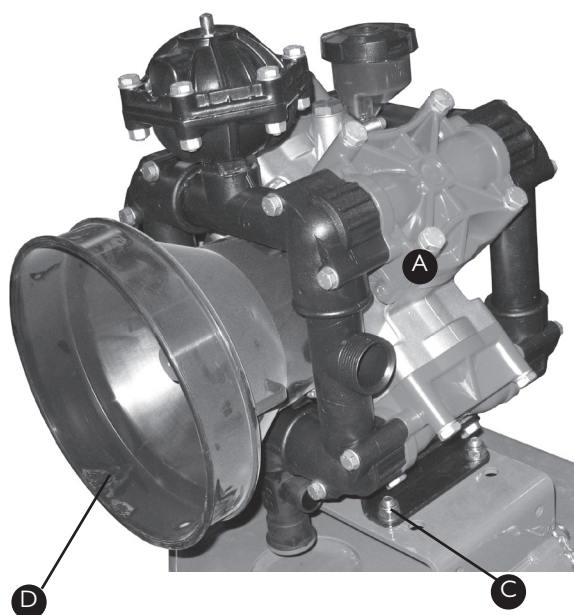
## HYDRAULIC HOSE KIT



Kit Part No GA5067185-EF

Item	Part No	Description	Quantity
A	HL-08-EF	2100mm long Hydraulic Hoses	2
B	HL-09	300mm Long Hydraulic Hoses	2
C	GA3500323	90 Degree Hydraulic Elbow	2
D	GA3500336	Hydraulic Tee	2
E	GA5078000	Hydraulic Male Fitting	2
F	GA5078084	O-ring	2
G	GA5018221	1/2" Needle Valve	1

PTO DRIVE PUMPS



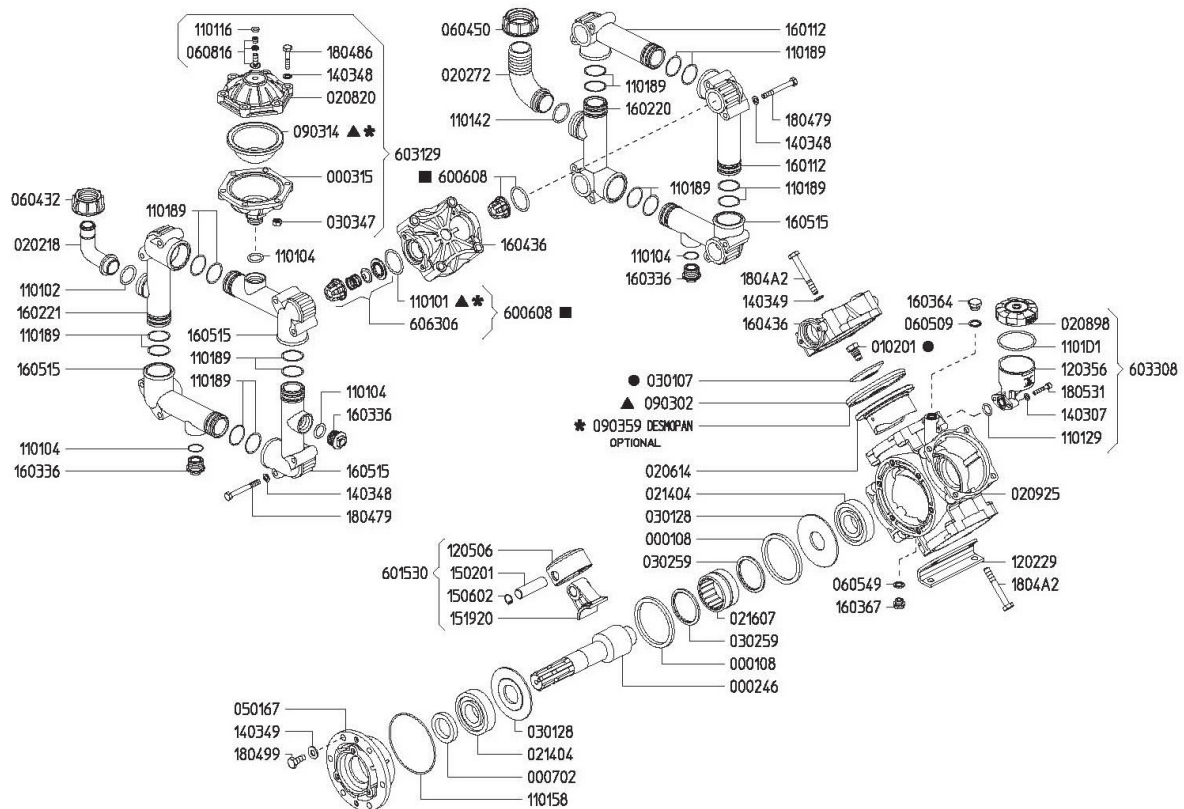
Item	Part No	Description	Quantity
A	R01601C	Pump 160L (Shaft Drive)	1
B	GA5060830	PTO Shaft*	1
C-1	GA5065455	M10 x 30mm Bolt	4
C-2	GA5000141	M10 Nyloc Nut	4
C-3	GA5000139	10mm Washer	4

Item	Part No	Description	Quantity
C-4	GA5002627	3/8" x 27mm x 3mm Washer	4
D	GA5013499	PTO Cover	1
E-1	GA5006127	M10 x 25 Cap Screw	3
E-2	GA5000139	10mm Flat Washer	3
E-3	GA5000137	10mm Spring Washer	3

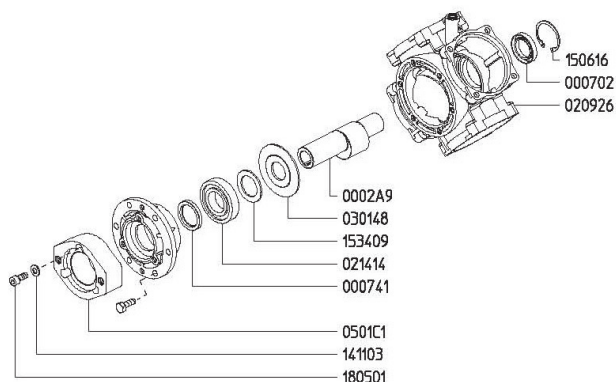
\* Wide Angle PTO shaft available as an option Part No GA5013511

# I 60l/min PUMP BREAKDOWN

## RO 160 1C



## RO 160 MI-1"



## 160l/min PUMP BREAKDOWN

Part No	Description	Part No	Description
000108	Retainer Ring "RO 160"	110129	O-Ring D.16,20x3 (RIF . 222162)
000246	Shaft "RO 160" (9) IC	110142	O-Ring D.32,00x3 (RIF . 3832)
0002A9	Shaft "RO 160/250" (9) MI D.1"	110158	O-Ring D.110x2,5 (RIF . 115110)
000315	Pressure Accumulator	110189	O-Ring D.36,10x3,53 (RIF . 4143)
000702	Oil Seal D.35x55x10	1101D1	O-Ring D.58,42x2,62 (RIF . 3231)
000741	Oil Seal D.40x55x7	120229	Base Plate "RO 160/180"
010201	Diaphragm Bolt "RO/Kappa"	120356	Oil Reservoir
020218	Hose Barb D.25	120506	Aluminium Plunger D.75 "RO/Kappa 120"
020272	Hose Barb D.40	140307	Washer D.6,4x12x1,6
020614	Sleeve D.75 "RO 110/160/250"	140348	Washer D.8,4x16x1,6
020820	Accumulator Cover "RO"	140349	Washer D.10,5x18x1,6
020898	Oil Reservoir Cover	141103	Schnorr Washer D.10
020925	Crankcase "RO 160"	150201	Pin D.18x64
020926	Crankcase "RO 160/180" TS	150602	Snap Ring D.18
021404	Ball Bearing 6307 D.35x80x21	150616	Snap Ring D.55
021414	Ball Bearing D.40x80x18 6208	151920	Connecting Rod "Omega 135/RO 160"
021607	Roller Bearing NK55-35 D.55x68x35	153409	Disc "RO 160/250" MI
030107	Diaphragm Disc "RO/Kappa 120/150"	160112	Inlet-Outlet Hose "RO 160/180"
030128	Rod Disc "RO 160/180/210/250"	160220	Suction Hose G1" 1/2 M "RO 160/180"
030148	Rod Disc "RO 160/250" OMR80	160221	Outlet Hose G1" 1/4 M "RO 160/180"
030259	Rod Spacer "RO 160/250"	160336	Plug G3/4
030347	Hexagonal Nut M8x8 UNI5587	160364	Brass Plug G3/8
050167	Bushing Flange "Omega 135/RO 160/250"	160367	AVP Plug G1/4
0501C1	Flange "RO 160/250" MI	160436	Head "RO 110...250" RED
060432	Plastic Nut G1" 1/4	160515	Inlet-Outlet Hose G3/4 F "RO 160/180"
060450	Plastic Nut G1" 1/2	180479	Hex Screw M8x70 UNI5737 DACROMET
060509	Gasket D.17x22x1,5	180486	Hex Screw M8x40 UNI5737 DACROMET
060549	Gasket D.13x19x1,5	180499	Hex Screw M10x25 UNI5739 DACROMET
060816	Air Valve Assembly	1804A2	Hex Screw M10x75 UNI5737 DACROMET
090302	Piston Diaphragm "RO70...250" D.116	180501	Allen Screw M10x25 UNI5931
090314	Accumulator Diaphragm "Kappa/RO"	180531	Allen Screw M6x30 UNI5931 DACROMET
090359	Piston Diaphragm "Kappa 120/150" D.115,4	600608	Valve Assy "RO/Omega/Beta"
110101	O-Ring D.39,69x3,53 (RIF . 144)	601530	Rod Assy "RO 160/180" D.75
110102	O-Ring D.29,75x3,53 (RIF . 4118)	603129	Press. Accumulator Assy "RO"
110104	O-Ring D.20,63x2,62 (RIF . 128)	603308	Oil Reservoir Assy "RO"
110116	O-Ring D.6,00x3 (RIF . 1263)	606306	Valve Assy "RO 70...250" W/T O-Ring

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

# CHAPTER 3

## 400L FLUSH TANK

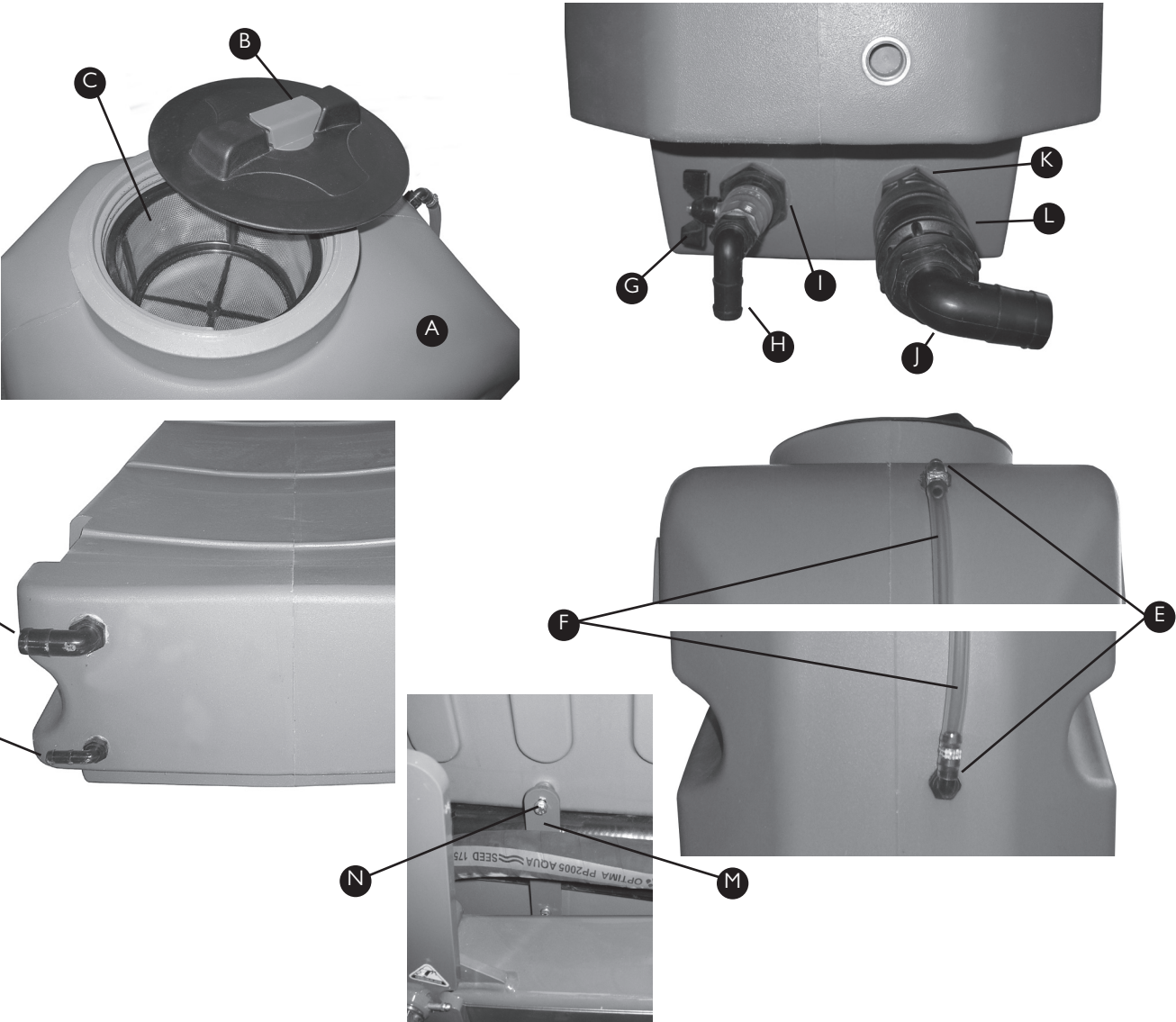
400L Flush Tank .....3-2



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400L FLUSH TANK



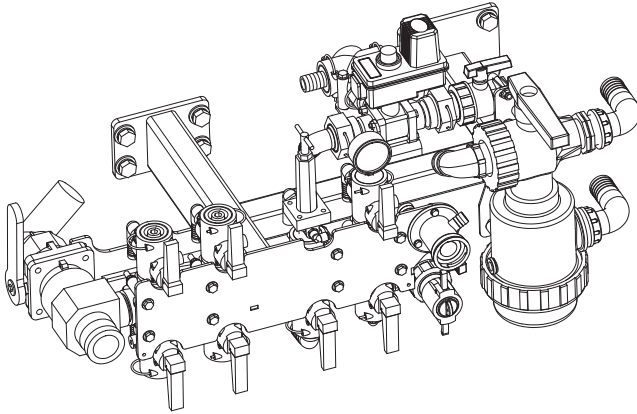
Assembly Part No: GA4903087-EF-S			
Item	Part No	Description	Quantity
	GA4654320*	Rinse tank frame	1
A	GA5018367	400L Rinse Tank	1
B	GA5076882	Small Lid D255 c/w breather	1
C	GA5076713	Basket Filter D.204x115	1
D	GA5077719	3/4"X1" Hose Barb Elbow	1
E	GA5077708	1/2" Hose barb elbow	3
F-1	GA2000209	12mm Sight Tube	0.72m
F-2	GA5007231	Cobra Clamp	2
G	GA5018315	20mm Ball Valve	1

Item	Part No	Description	Quantity
H	GA5077717	3/4" Hose Barb Elbow	1
I	GA5078017	Reducing Bush 1 1/2" x 3/4"	1
J	GA5077730	1 1/4" Hose Barb Elbow	1
K	GA5078093	Nipple 1 1/2" x 1 1/4"	1
L	GA5017361	1 1/4" Check Valve	1
M	F70681A	Hose Strap for Belly Tank	2
N-1	GA5011409	M6 x 35mm Bolt	4
N-2	GA5004437	6mm Washer S/S	4
N-3	GA4552075	Crush Tube	4

\* Item shown in Chassis (Chapter 1)

# CHAPTER 5

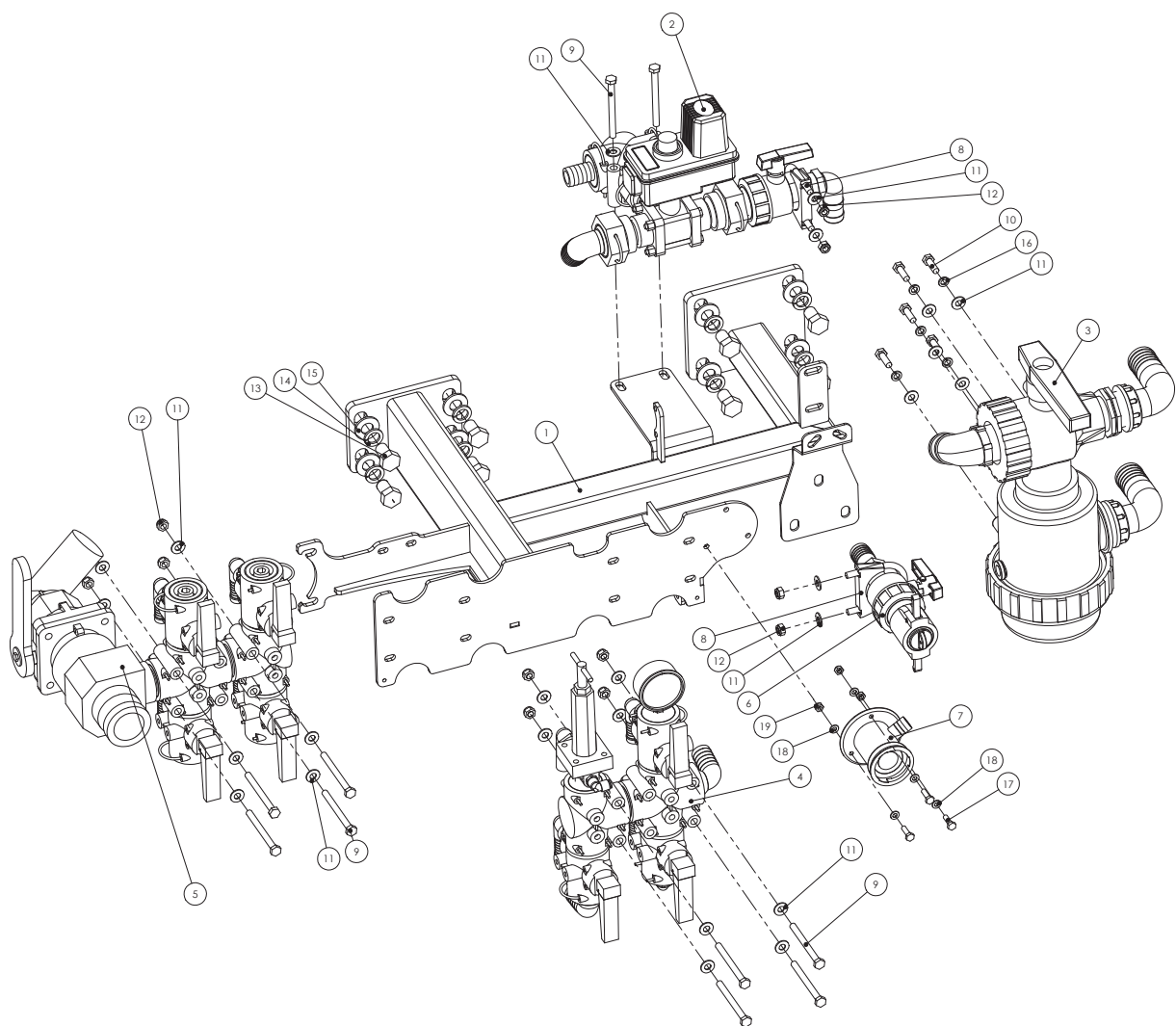
## LIQUID CONTROLS



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

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LEFT POD



Assembly Part No: GA4903810

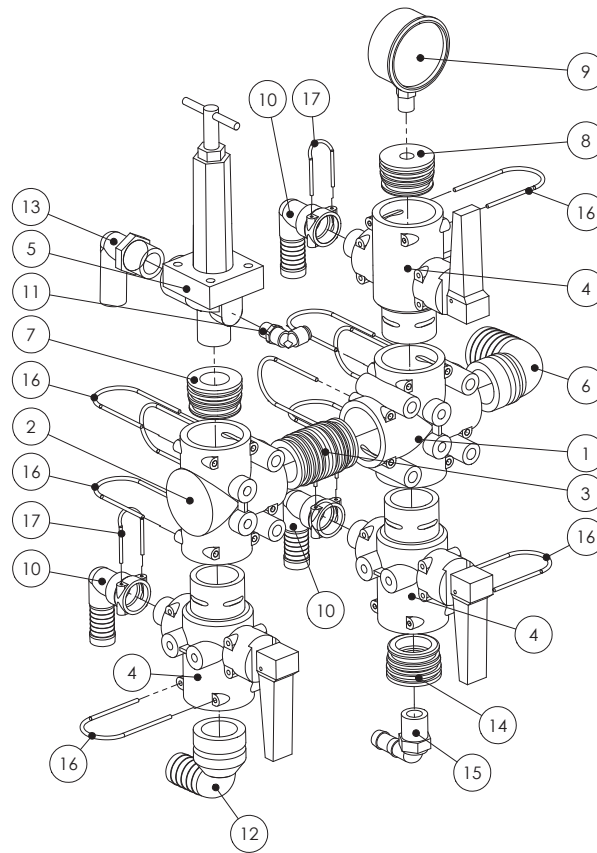
Item	Part No	Description	Quantity
1	GA4657685	Left Control Station Frame	1
2	GA4903820	Flow Control Valve	1
3	GA4903825	Suction Filter Assembly*	1
4	GA4903815	Pressure Manifold	1
5	GA4903137	Fill Manifold	1
6	GA4903082	Pre-Assembled Chem Probe	1
7	GA5018800	Enviro Rinse Coupling	1
8	GA5006705	2" Exhaust Clamp	1
9	GA5011495	M8 x 90mm Bolt	12
10	GA5004711	M8 x 25mm Bolt	5

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

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



# PRESSURE MANIFOLD



Assembly Part No: GA4903815

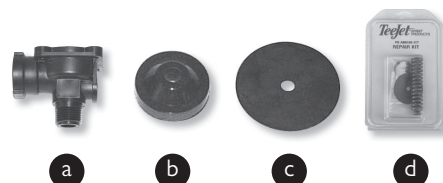
Item	Part No	Description	Quantity
1	GA5065565	Cross Piece, 4 x AS40	1
2	GA5065555	Tee Piece, 3 x AS40	1
3	GA5065735	Coupling, AS40 to AS40	1
4	GA5065545	Flip Valve, with Red Handle	3
5	GA5077179	Pressure Relief Valve	1
6	GA5065620	Push in Elbow, AS40 x 33mm	1
7	GA4583060	AS40 Plug with 3/4" BSPT	1
8	GA4582160	AS40 Plug with 1/4" Thread	1
9	GA4948470	160 PSI Pressure Gauge	1

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

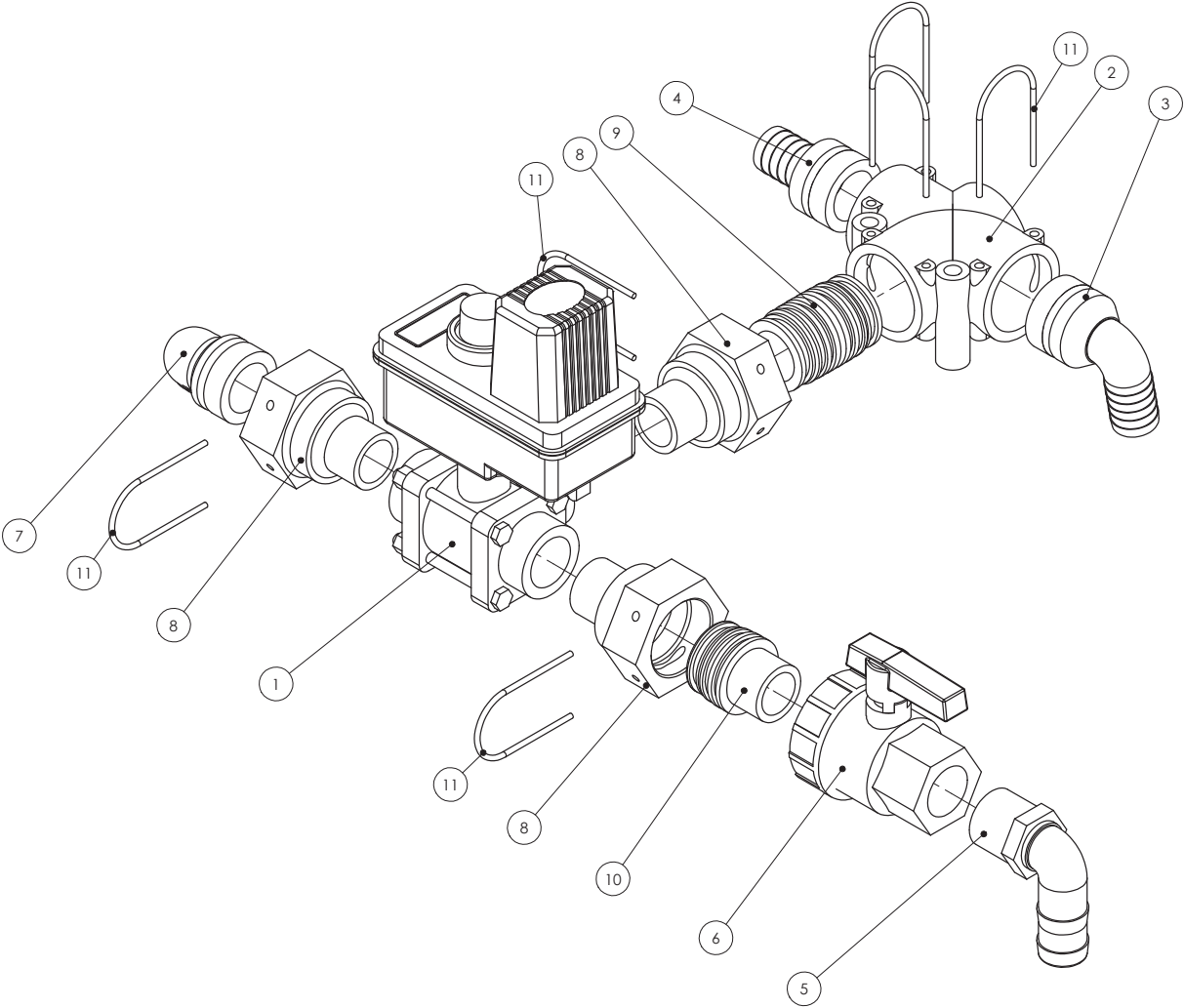
For O-Rings refer to the Altek/Goldacres Parts catalogue

## Pressure Relief Valve Replacement Parts

Item	Part No	Description
a	GA5077616	Body
b	GA5077618	Seat
c	GA5077620	Diaphragm
d	PKAB8460-KIT	Repair Kit



# FLOW CONTROL VALVE

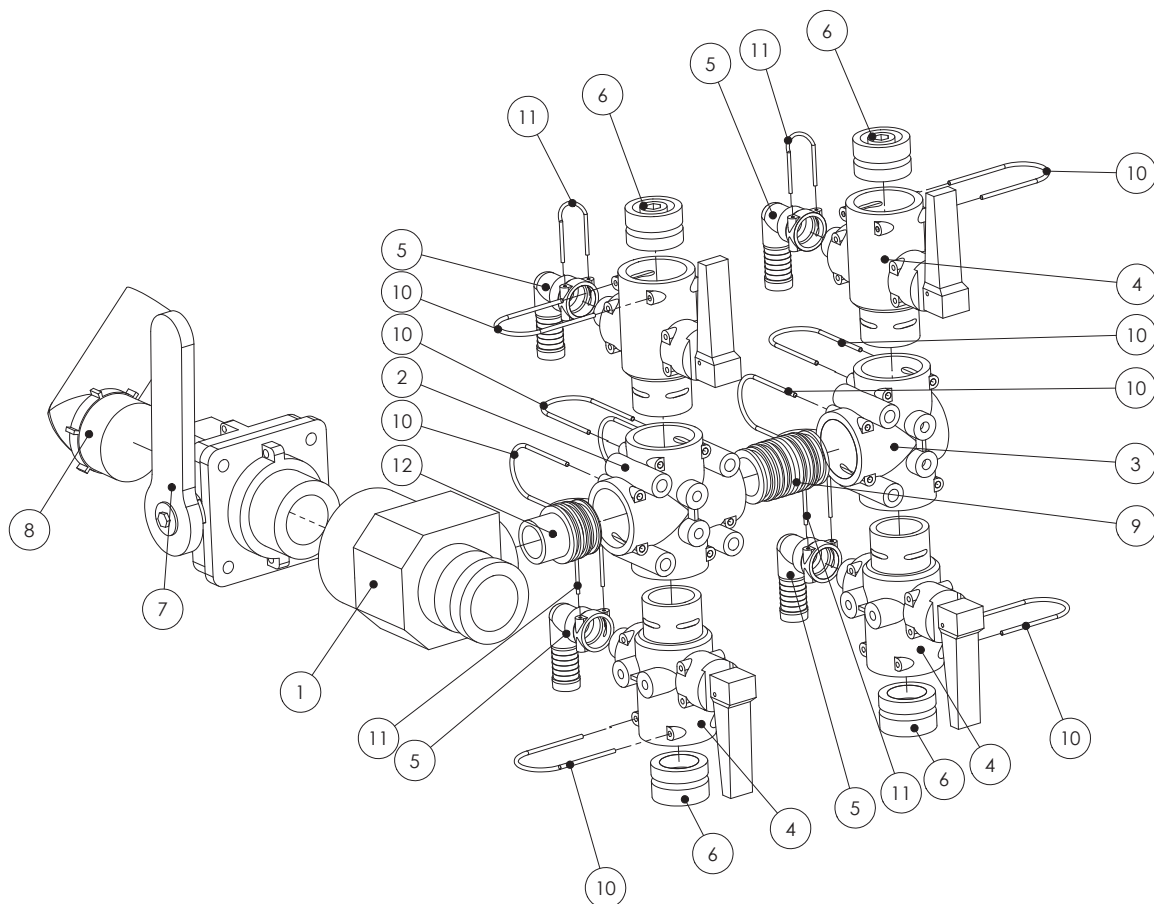


Assembly Part No: GA4903830			
Item	Part No	Description	Quantity
1	GA5076867	3 Way Regulating Valve	1
2	GA5065555	AS40 Tee Piece	1
3	GA5065615	1" Plug in Elbow	1
4	GA5065580	1" Plug in Hose Tail	1
5	GA5077723	1" Poly Elbow	1
6	GA5078164	1" Ball Valve	1

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

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

## FILL MANIFOLD



Assembly Part No: GA4903137

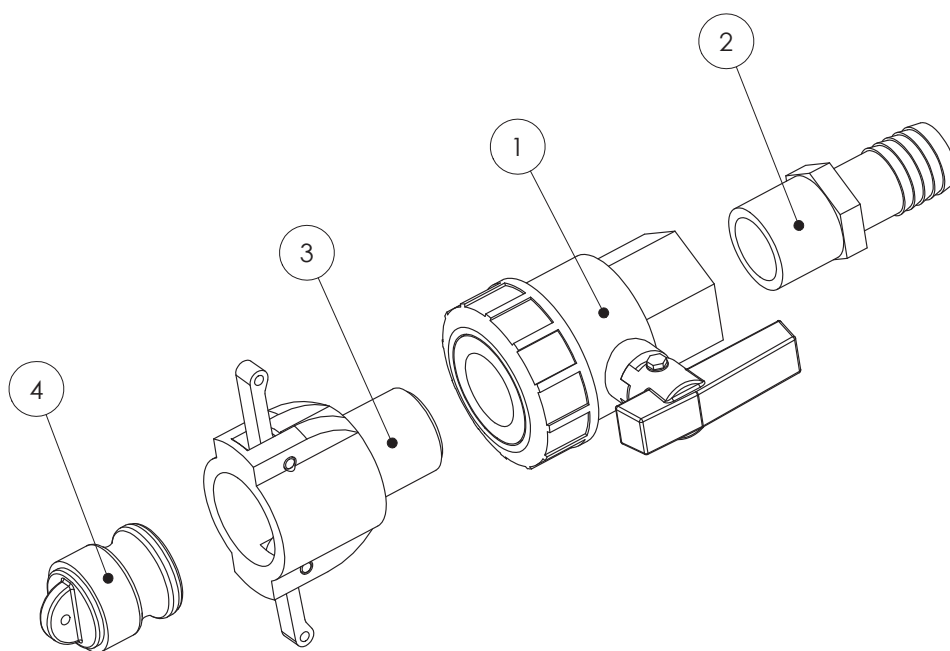
Item	Part No	Description	Quantity
1	GA4582295	2" Cam Lock Tee Fitting	1
2	GA5065565	Cross Piece, 4 x AS40	1
3	GA5065560	Tee Piece, 3 x AS40	1
4	GA5065545	Flip Valve, with Red Handle	4
5	GA5065675	Push on Elbow, AS24 x 20mm	4
6	GA5065680	Blank Plug, AS40	4

Item	Part No	Description	Quantity
7	GA5078205	2" Ball Valve	1
8	GA5077740	2" Poly Elbow	1
9	GA5065735	Poly Coupling, AS40 to AS40	1
10	GA5065690	AS40 Safety Pin	11
11	GA5065695	AS24 Safety Pin	4
12	GA5065600	Coupling, AS40 to 1" Thread	1

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

## VENTURI PROBE CONNECTION POINT

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Assembly Part No: GA4903082

Item	Part No	Description	Quantity
1	GA5078164	1" Ball Valve	1
2	GA5077718	1" Hose Barb	1
3	GA5076007	Female Camlock with 1" Thread	1
4	GA5076005	Camlock Plug	1

# CHAPTER 8

## INDUCTION HOPPER

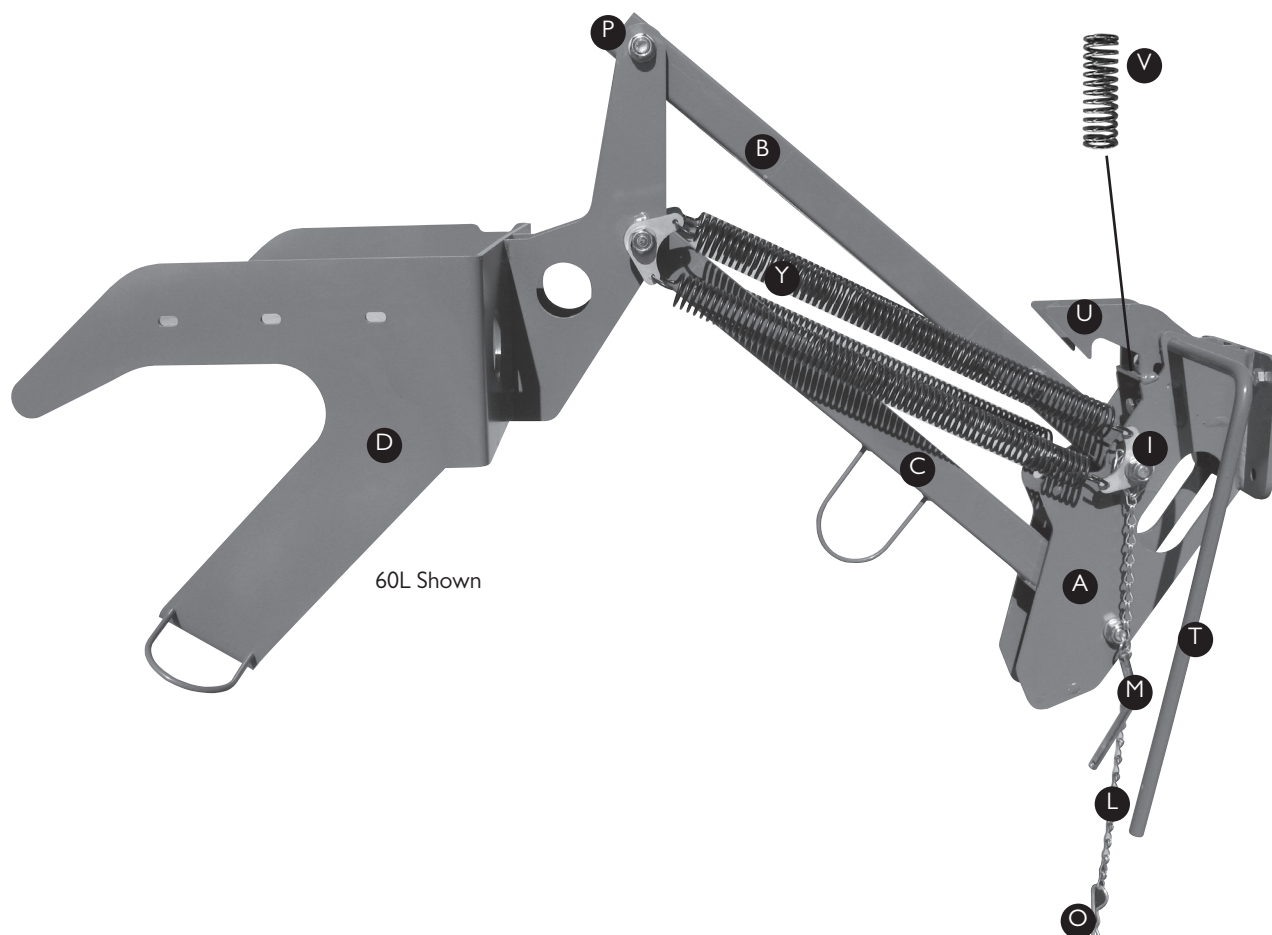


40L Hopper Shown

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

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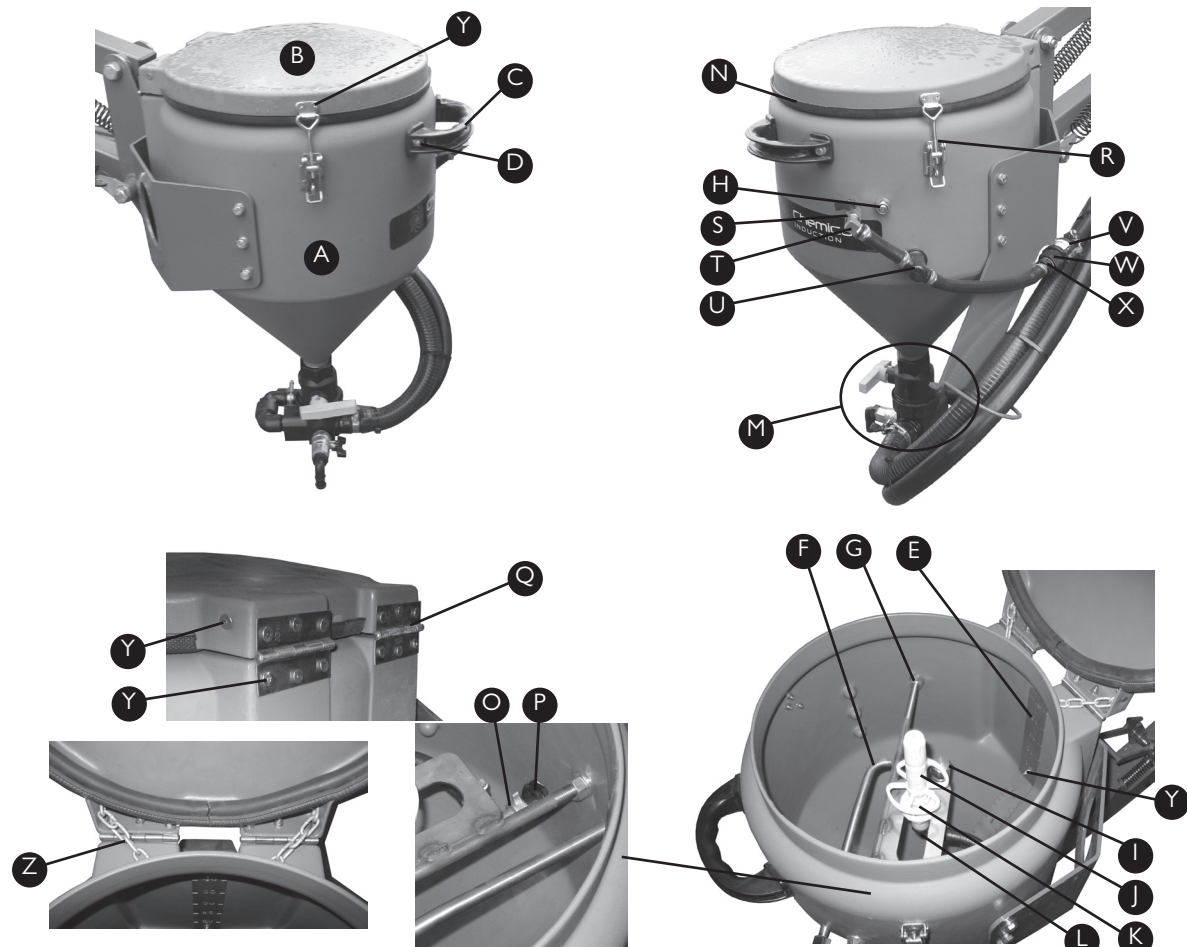
## HOPPER FRAME



Item	Part No	Description	Quantity
A	GA4653420	Chassis mount	1
B	GA4653440	Hopper arm upper	1
C	GA4653445	Hopper arm lower	1
D	GA4653470	40L Tank support	1
	GA4656855	60L Tank support	1
E	GA5000855	M16x110mm bolt	2
F	GA5000881	M16x180mm bolt	2
G	GA5001043	16mm flat washer	8
H	GA5001029	M16 nyloc nut	4
I	GA4522294	Double spring mount	4
J	GA5000319	M12x40mm set screw	2
K	GA5012461	12mm nyloc	3
L	GA5049330	Chain 6x7mm	0.4

Item	Part No	Description	Quantity
M	SP-IH-009MACH	Latch Pin	1
N	GA5002077	25mm NP key ring	1
O	GA5007197	Clip R type 4mm	1
P	GA5003783	50x50mm tube insert	4
Q	GA5012203	Grease nipple 1/4"	4
R	GA5011487	M8x40mm SHCS ZP	1
S	GA5004917	Nut 8mm nyloc	1
T	GA5010811	Hopper latch handle	1
U	GA4653490	Hopper latch ADV	1
V	GA5007329	Compression spring gold	1
W	GA500263	M12x100mm bolt	1
X	GA5000773	12mm flat washer SS	2
Y	GA5007073	Hopper Tension Spring	4

## 40L HOPPER TANK



Assembly Part No GA4903111

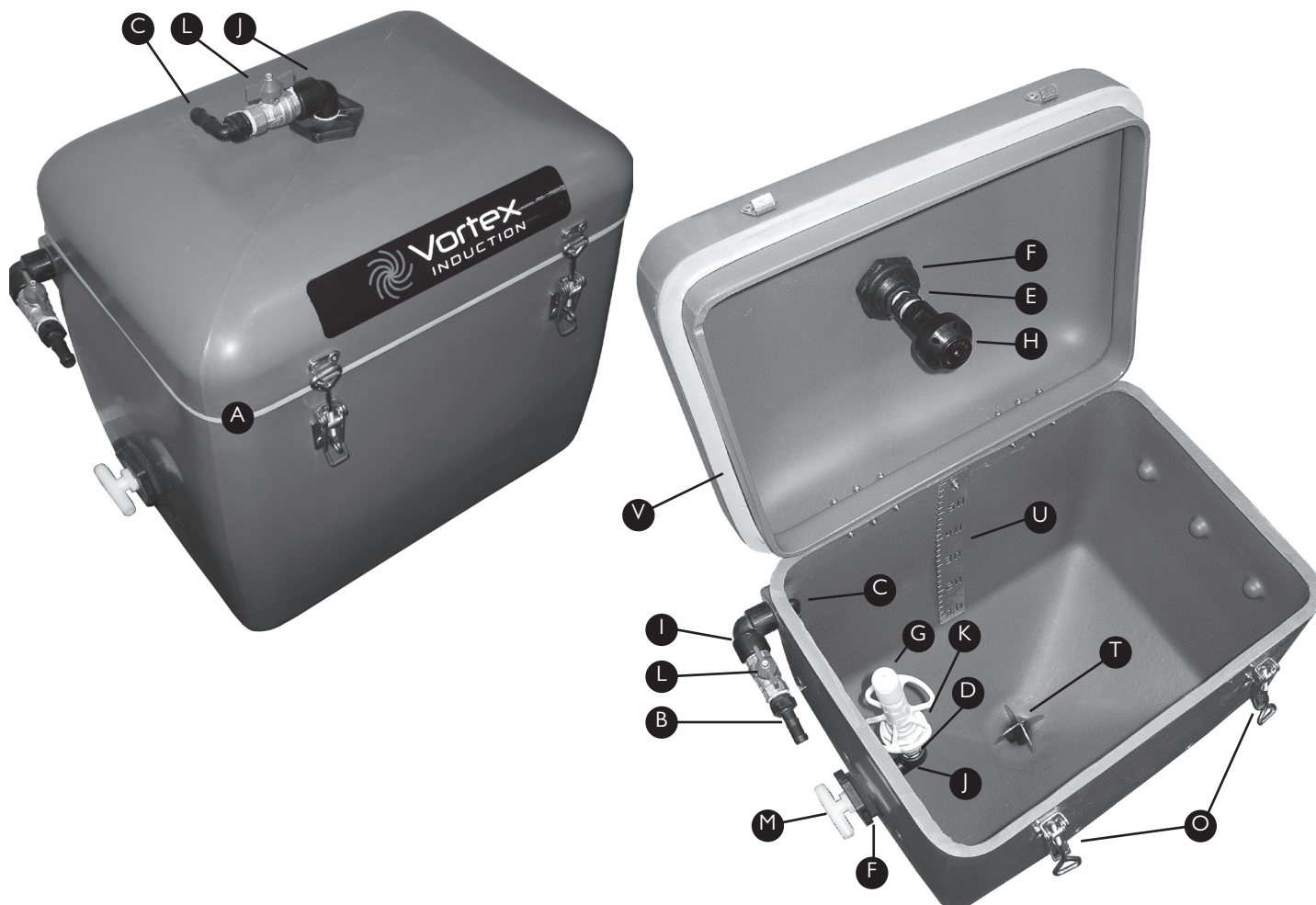
Item	Part No	Description	Quantity
A	GA4901044	40L Hopper Tank	1
B	GA5003333	40L Hopper Lid	1
C	GA5009841	Hopper Handle	1
D	GA5004707	M8 x 20mm Cap Screw	2
E	F70275A	Level Indicator Insert	1
F	GA4653590	Spray Manifold	1
G-1	GA5000581	M12 Stainless Steel Nut	2
G-2	GA5000577	12mm S/S Washer	2
H-1	GA5012461	M12 Nyloc Nut ZP	2
H-2	GA5000577	12mm S/S Washer	2
I	L071A	Tank Rinsing Nozzle	1
J	GA5077063	1/2" Rinse Nozzle Head	1
K	GA5077062	Push Down Valve	1
L	GA5077708	1/2" Poly Elbow	1
M	GA4903105	Induction Hopper Bottom*	1
N	GA5012981	Hopper Seal	1.24m

\* Refer to page 8-5

Item	Part No	Description	Quantity
O	GA5012375	Brass Elbow and Nut	1
P-1	2502021	1/2" Long Nipple	1
P-2	GA5070110	1/2" Brass Lock Nut	1
Q	GA5006661	Butt Hinge	2
R	GA5007071	Hopper Latch	2
S	GA5018321	8mm Ball Valve	1
T	GA5048390	1/2" x 1/4" Brass Elbow	1
U	GA5070150	13mm x 1/2" Tee	1
V	GA5077060	1/2" Female Coupler	1
W	GA5077124	3/4" Male Coupler	1
X	GA5077713	3/4" x 1/2" Hose Barb	1
Y-1	GA5003977	M5 x 16mm Pan Head Bolt	29
Y-2	GA5003975	M5 S/S Nyloc Nut	29
Y-3	GA5003983	5mm S/S Washer	29
Z	GA5003017	Chain	10 Links



## 60L VORTEX HOPPER TANK

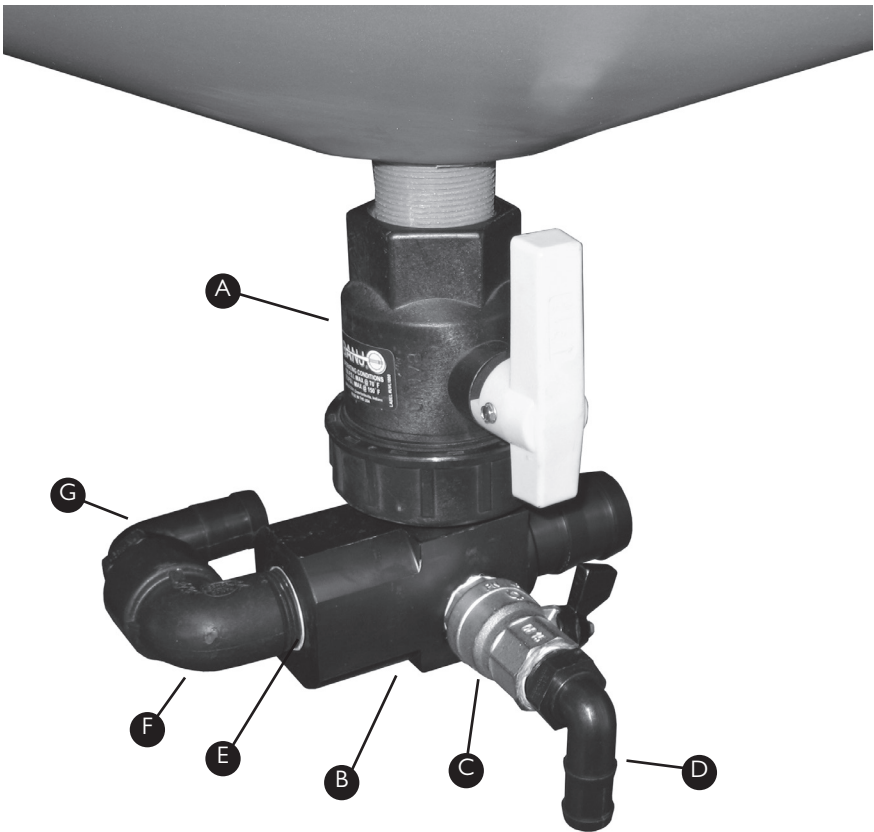


Item	Part No	Description	Quantity
A	GA5070040	Hopper tank, 60L & lid	1
	GA5070045	Hopper Lid	1
B	GA5077702	Straight hose barb 1/2"	1
C	GA5077708	Elbow 1/2" male thread to 1/2" barb	2
D	GA5077911	Poly nipple 1/2"	1
E	GA5078087	Reducer Nipple 1/2-3/4"	1
F	GA5078156	1/2" Poly bulkhead	2
G	GA5077063	Drum rinsing nozzle	1
H	L033A	Tank Rinse	1
I	GA5077652	Elbow 1/2"	1
J	GA5078133	Street elbow 1/2"	2
K	GA5077062	Push down valve	1

Item	Part No	Description	Quantity
L	GA5020615	1/2" ball tap M-F	2
M	GA3500391	Tee barb 1/2" poly	1
N	GA5006661	Hinge (SS 3 hole)	2
O	GA5007071	SS Latch (adjustable)	2
P	GA5003976	M5x20mm Pan head set screw SS	11
Q	GA5003975	M5 SS hex nyloc nut	11
R	GA5003983	Washer 5mm S/S	12
S	GA5000469	12-20mm s'steel 1/2" hose clamp	5
T	GA4657115	Anti-aeration device	1
U	GA4522296	Level indicator 60L	1
V	GA5016473	Foam Sealing Strip	1.8m



HOPPER BOTTOM



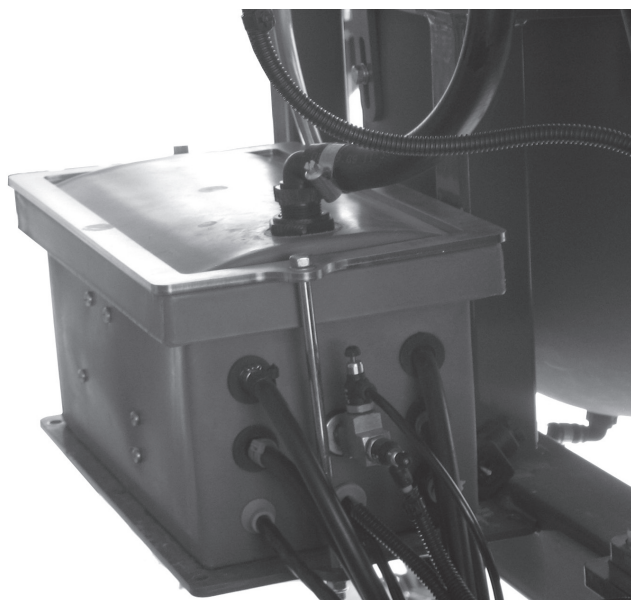
Assembly Part Number GA4903105			
Item	Part No	Description	Quantity
A	GA5078167	1 1/2" Ball Valve	1
B	L056A	Induction Hopper Bottom Tee	1
C	GA5018315	20mm Ball Valve	1
D	GA5077717	3/4" Barbed Elbow	1
E	L057A	Hopper Venturi 9mm*	1
	GA4572150	Hopper Venturi 7mm*	
F	GA5078137	1" Elbow	1
G	GA5077723	1" Barbed Elbow	1

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

INDUCTION  
HOPPER

# CHAPTER 9

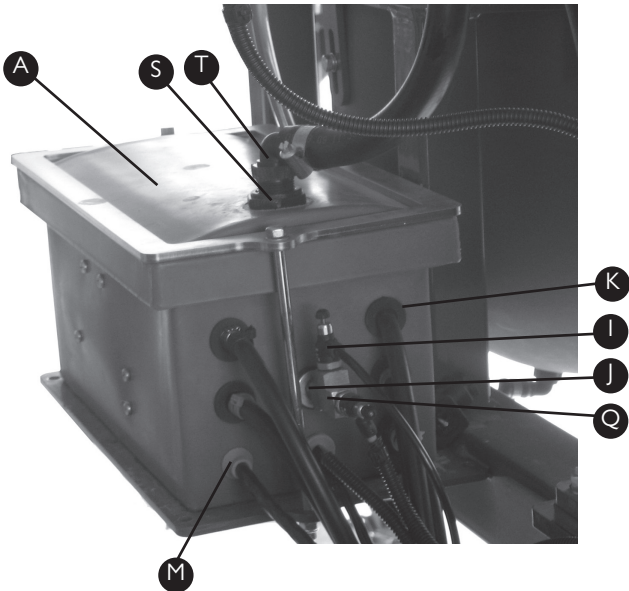
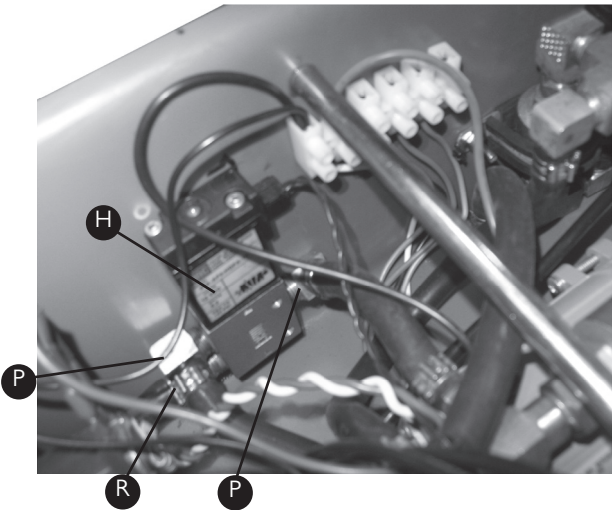
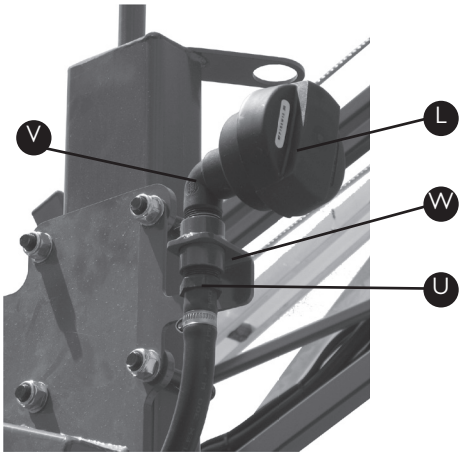
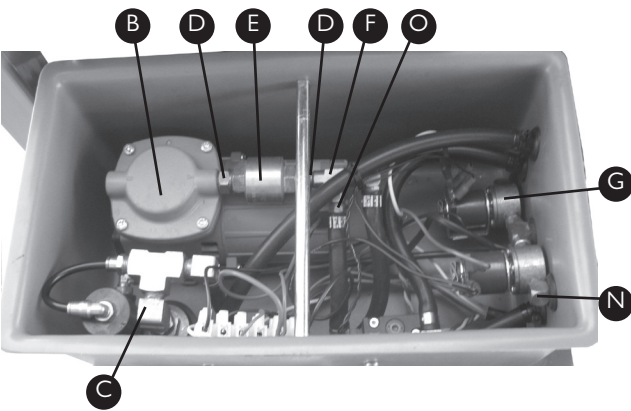
## FOAM MARKER



Foam Marker Box Components . . . .	9-2
Foam Marker Exhaust Valve . . . . .	9-4
Foam Marker Compressor Parts . . . .	9-5
Foam Concentrate Tank . . . . .	9-6
Pre-Assembled Filter & Ball Valves . . .	9-6
Exacta Foam Marker Tank Mount. . . .	9-7
Exacta Foam Marker Tank . . . . .	9-7

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FOAM MARKER BOX COMPONENTS



Item	Part No	Description	Quantity
A	GA5066855	Foam Marker Box & Lid	1
B	GA5018806	Air Compressor <sup>#1</sup>	1
C	GA4912005	Foam Marker Exhaust Valve <sup>#2</sup>	1
D	GA5020690	1/8" x 3/8" Reducing Nipple	2
E	GA5020010	3/8" Check Valve	1
F	GA5016559	1/8" Female Brass Tee	2
G	GA5018395	Liquid Solenoid	2
H	GA5002959	Air Solenoid	1
I	GA5015643	Needle Valve	2
J	GA5013809	1/4" x 1/8" Reducing Nipple	1
K	GA5012199	29mm Neoprene Grommet	7
L	GA5005259	1" Air Filter <sup>#3</sup>	1

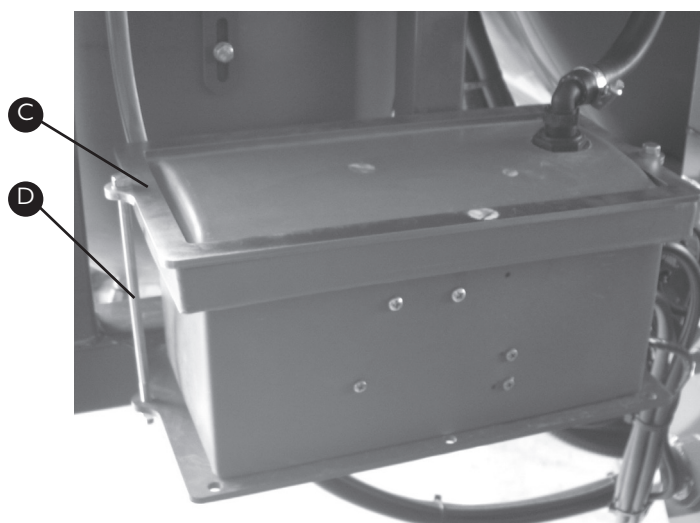
Item	Part No	Description	Quantity
M	GA5017703	19x5mm Grommet	1
N	GA5066950	1/4" x 1/8" Brass Elbow	3
O	GA5066945	1/4" x 1/8" Hose Barb	1
P	GA5048340	1/4" Brass Elbow	2
Q	GA5048300	1/4" Female Tee	1
R	GA5020540	1/4" Brass Hose Barb	1
S	GA5077913	3/4" Poly Nipple	1
T	GA5077717	3/4" Poly Elbow	1
U	GA5077715	3/4" x 1" Hose Barb	1
V	GA5078137	1" Male to Female Elbow	1
W	GA4656445	Air Filter Bracket	1

<sup>#1</sup> Assembly breakdown shown on page 9-5

<sup>#2</sup> Assembly breakdown shown on page 9-4

<sup>#3</sup> Replacement Filter shown in Chapter 19 Filtration and Hose

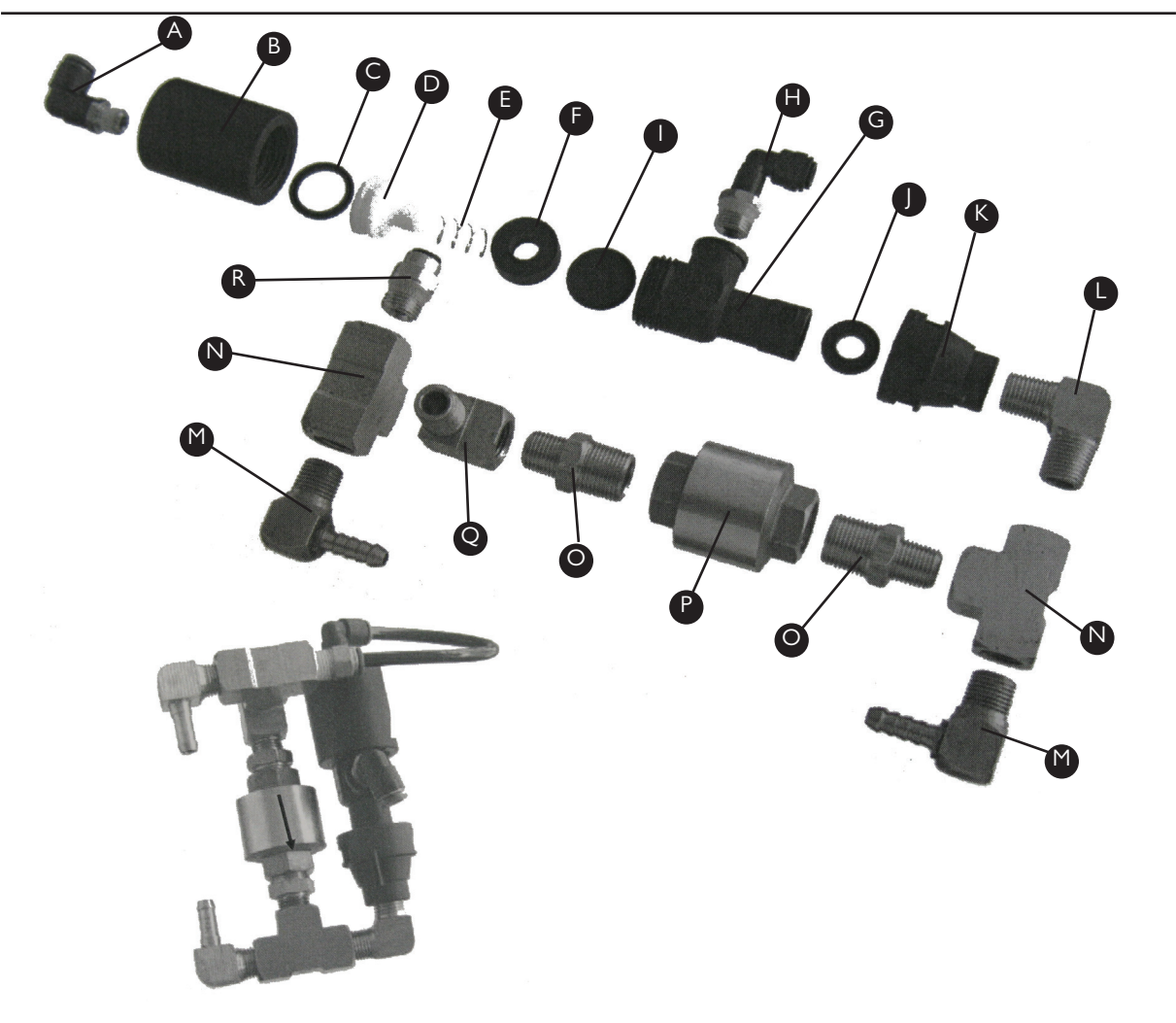
## FOAM MARKER BOX COMPONENTS CONT.



Item	Part No	Description	Quantity
A	GA4572130	Compressor Box Spacer Rod	1
B-1	GA5003976	M5 x 20mm Panhead Set Screw	2
B-2	GA5003983	5mm Washer	2
C	F70254A	Top Retainer Plate	1
D-1	MACH0041	M8 x 210mm Bolt	2
D-2	GA5004917	M8 Nyloc Nut	2
D-3	GA5003651	8mm Washer	4
E	GA5016463	Foam Sealing Tape*	1.3m

\* Not shown in photos

FOAM MARKER EXHAUST VALVE



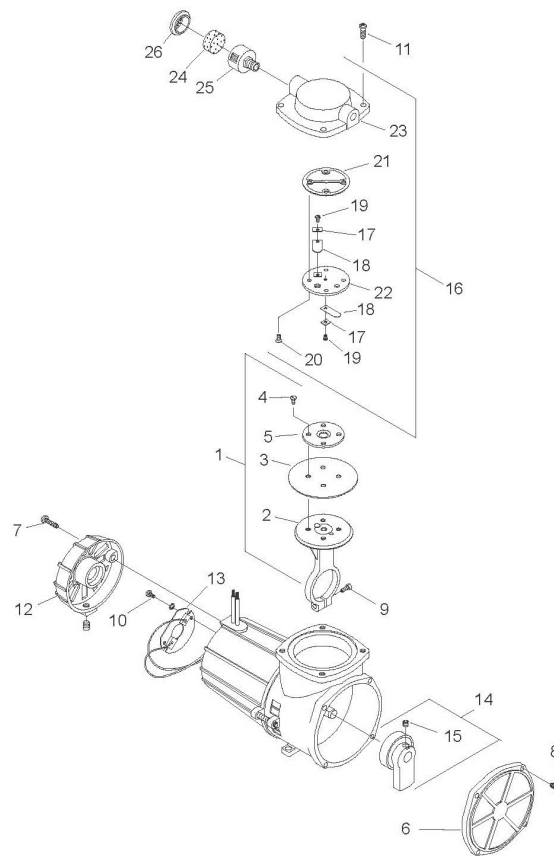
Assembly Part No GA4912005

Item	Part No	Description	Quantity
A	GA5045145	6mm x 1/8 BSPT Elbow	1
B	GA4572000	Chemsaver Body	1
C	GA5077548	Cup Seal	1
D	GA4572005	Chemsaver Piston	1
E	GA5045090	Spring 14.2 x 14	1
F	GA4572010	Chemsaver Washer	1
G	GA5075651	Diapham Nozzle Body	1
H	GA5016233	6mm x 1/4 BSP Swivel	1
I	GA5077620	Diapham	1

Item	Part No	Description	Quantity
J	GA5055245	Cap Seal	1
K	GA5077983	Adapter	1
L	GA5008343	1/4" Elbow	1
M	GA5048340	1/4" Barbed Elbow	2
N	GA5048300	1/4" Brass Tee	2
O	GA5045085	1/4" x 3/8" Nipple	2
P	GA5020010	3/8" Check Valve	1
Q	GA5048305	1/4" Extruded Elbow	1
R	GA5045140	6mm x 1/4" BSPT Adapter	1



# FOAM MARKER COMPRESSOR PARTS



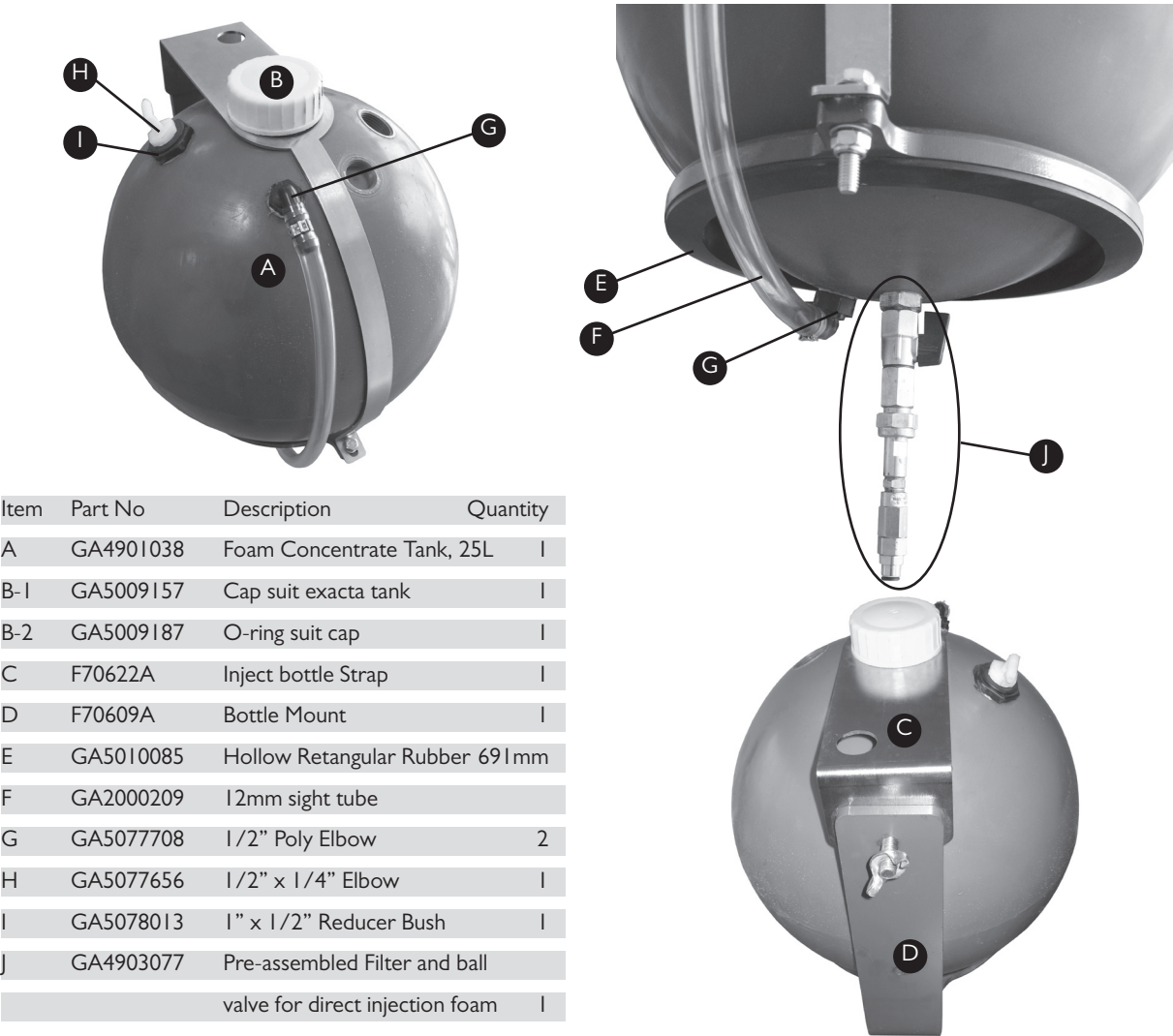
Assembly Part No GA5018806

Item	Part No	Description	Quantity
1	607180	Connecting Rod Assembly	1
2	607139	Connecting Rod	1
3	608148	Diaphragm	1
4	GA5007339	Screw - Hold Down Plate	4
5	GA5013073	Hold Down Plate	1
6	614608	Front Cover	1
7	614608	Screw - Motor End Cap	2
8	625660	Screw - Front Cover	4
9	625114	Conn Rod. Screw	1
10	625476	Screw - Brush Card	2
11	625444	Screw - Head	4
12	620352	Motor End Cap Assembly	1
13	GA5006445	Brush Card Assembly	1
14	645373	.18 Stroke Eccentric & Bearing Assy	1
	667611	.20 Stroke Eccentric & Bearing Assy	1

Item	Part No	Description	Quantity
15	625244	Set Screw - Eccentric	1
16	GA5016651	Head & Valve Plate Assembly	1
17	GA5017351	Valve Keeper	2
18	GA5008789	Valve Flapper - Intake & Exhaust	2
19	625160	Screw - Flapper	2
20	GA5014803	Screw - Valve Plate	4
21	633439	Gasket - Head	1
22	654129	Valve Plate	1
23	660131-504	Head	1
24	641034	Filter Foam	1
25	660763	Filter Body	1
26	660767	Filter Body Cap	1

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

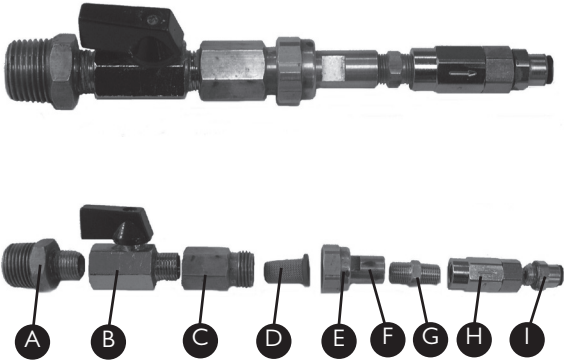
FOAM CONCENTRATE TANK



Item	Part No	Description	Quantity
A	GA4901038	Foam Concentrate Tank, 25L	1
B-1	GA5009157	Cap suit exacta tank	1
B-2	GA5009187	O-ring suit cap	1
C	F70622A	Inject bottle Strap	1
D	F70609A	Bottle Mount	1
E	GA5010085	Hollow Retangular Rubber 691mm	
F	GA2000209	12mm sight tube	
G	GA5077708	1/2" Poly Elbow	2
H	GA5077656	1/2" x 1/4" Elbow	1
I	GA5078013	1" x 1/2" Reducer Bush	1
J	GA4903077	Pre-assembled Filter and ball	
		valve for direct injection foam	1

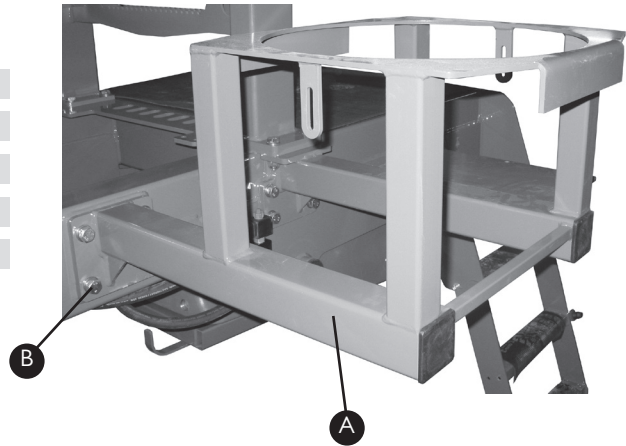
PRE-ASSEMBLED FILTER & BALL VALVES

Pre-Assembled Filter and Ball Valve to suit Direct			
Injection Foam Marker Tanks (GA4903077)			
Item	Part No	Description	Quantity
A	GA5012259	Reducing Nipple	1
B	GA5017405	Ball Valve	1
C	GA5077369	Brass Nozzle Body	1
D	GA5077157	200 Mesh Strainer (Orange)	1
E	GA5077372	Brass Cap	1
F	GA5077543	Brass Adapter	1
G	GA5066935	1/8" Brass Nipple	1
H	GA5018147	1/8" Check Valve	1
I	GA5050210	6mm x 1/8" Fitting	1

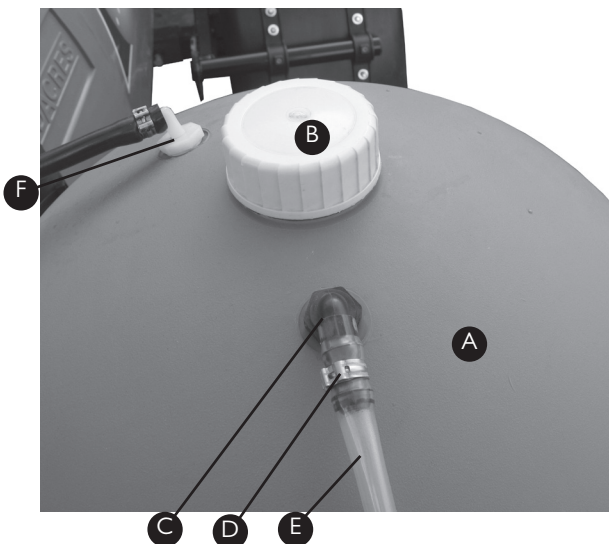


## EXACTA FOAM MARKER TANK MOUNT

Item	Part No	Description	Quantity
A	GA46572	Foam Tank Mounting Frame	1
B-1	GA5000903	M16 x 25mm Bolt	8
B-2	GA5001009	16mm Washer	8
B-3	GA5000961	16mm Spring Washer	8

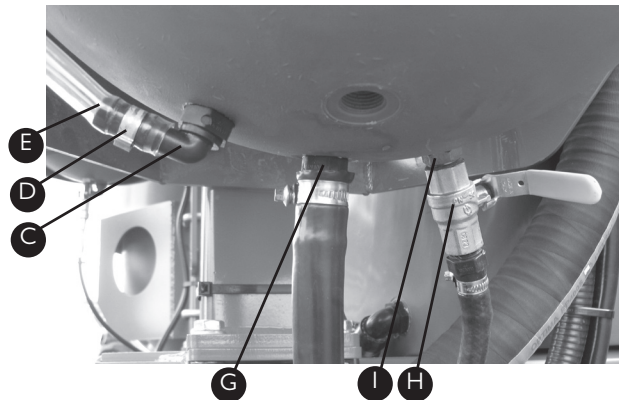


## EXACTA FOAM MARKER TANK



Assembly Part No GA4903081

Item	Part No	Description	Quantity
A	GA5018487	100L Foam Tank	1
B-1	GA5009157	Cap suit exacta tank	1
B-2	GA5009187	O-Ring suit Cap	1
C	GA5077708	1/2" Poly Elbow	2
D	GA5007225	12/8 Cobra Clamp	2



Item	Part No	Description	Quantity
E	GA2000209	12mm Sight Tube	1000mm
F	GA5077656	1/2" x 1/4" Elbow	1
G	GA5077704	1/2" x 3/4" Hose Barb	1
H	GA5018309	12mm Ball Valve	1
I	GA5018310	1/2" Brass Nipple	1

FOAM MARKER

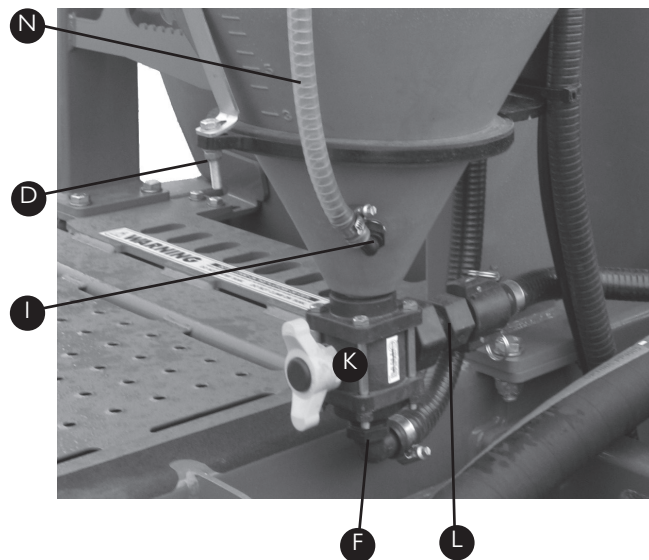
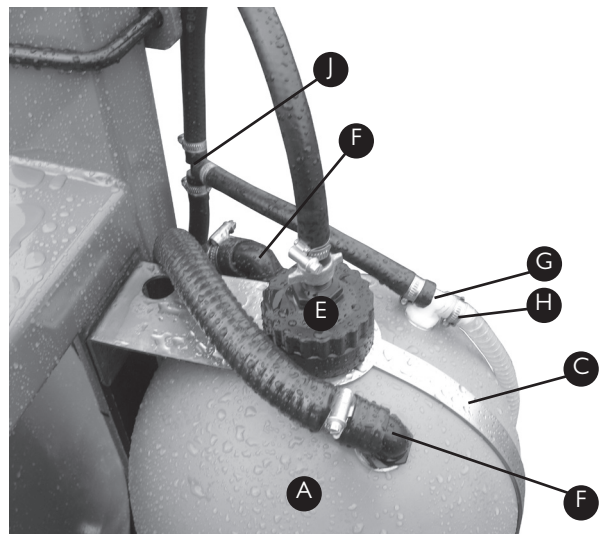
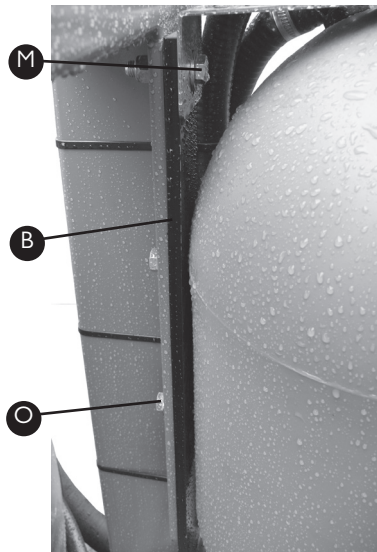
# CHAPTER 10

TRANSCAL





# TRANSCAL TANK



## Assembly Part No GA4903108

Item	Part No	Description	Quantity
A	GA4901047	45L Transcal Tank	1
B	F70608A	Transcal Mounting Bracket	1
C	F70623A	Bottle Strap 3mm	1
D-1	GA5004737	M8 x 70mm Bolt	1
D-2	GA5004917	M8 Nyloc Nut	1
D-3	GA5004883	8mm Washer	2
E	GA4903050	Pre-Assembly Transcal Cap	1
F	GA5077723	1" Poly Elbow	3
G	GA3500391	1/2" Tee with Thread	1
H	GA5020695	1/8" Brass Nipple*	1
I	GA5077708	1/2" Poly Elbow	1

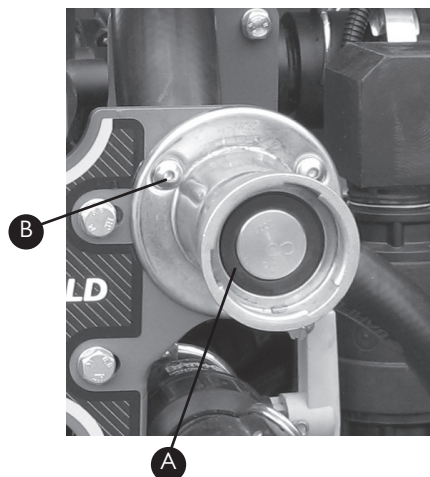
\* Note: Barb removed from item to act as restricter

Item	Part No	Description	Quantity
J	GA3500391	1/2" Tee	1
K	GA5078177	1" 3 Way Ball Valve	1
L	GA5076012	1" Male Adapter, Male Thread	1
M-1	GA5000305	M12 x 50mm Bolt	1
M-2	GA5012461	M12 Nyloc Nut	1
M-3	GA5000577	12mm Washer	2
N	GA2000210	1/2" Sight Tube	720mm
O-1	GA5006113	M10 x 20mm Bolt	2
O-2	GA5000117	10mm Washer	2
O-3	GA5000137	10mm Spring Washer	2

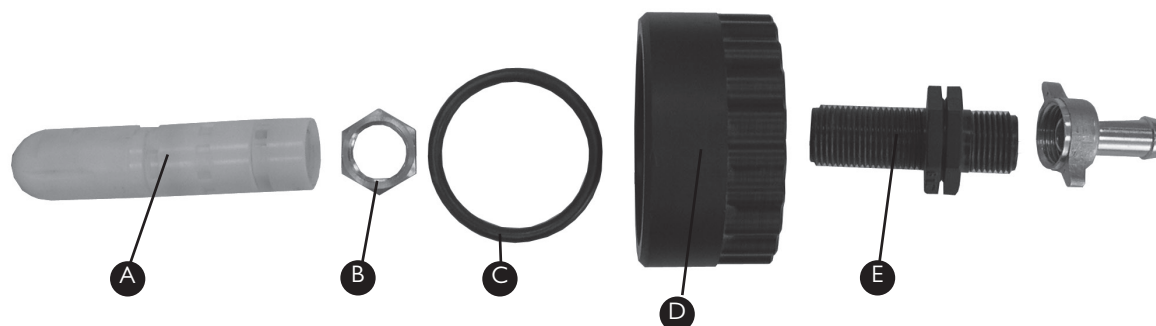


## TRANSCAL ENVIRO RINSE COUPLING

Item	Part No	Description	Quantity
A	GA5018800	Coupling	1
B-1	GA5004063	M6 x 20mm Bolt	3
B-2	GA5048115	M6 Nyloc Nut	3
B-3	GA5004437	6mm Washer	6



## TRANSCAL CAP ASSEMBLY



Assembly Part No GA4903050

Item	Part No	Description	Quantity
A	GA5077063	Rinsing Nozzle	1
B	GA5070110	1/2" Brass Lock Nut	1
C	GA5009187	O-ring	1
D	L055A	Transcal Cap	1
E	2502021	1/2" Nipple	1
F	GA5012375	1/2" Brass Tail with Nut	1



# CHAPTER 11

## MAIN TANK AND MOUNTING HARDWARE



Tank . . . . .	11-2
Sump Drain . . . . .	11-3
Tank Bracing Bar . . . . .	11-3
Sump Drain Hose . . . . .	11-4
Sump Drain Hose Valve . . . . .	11-4
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Tank Flush Nozzle (Elbow) . . . . .	11-7
Tank Flush Nozzle (Tee) . . . . .	11-7
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Venturi . . . . .	11-9
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Tank Straps . . . . .	11-10
Tank Stops . . . . .	11-10
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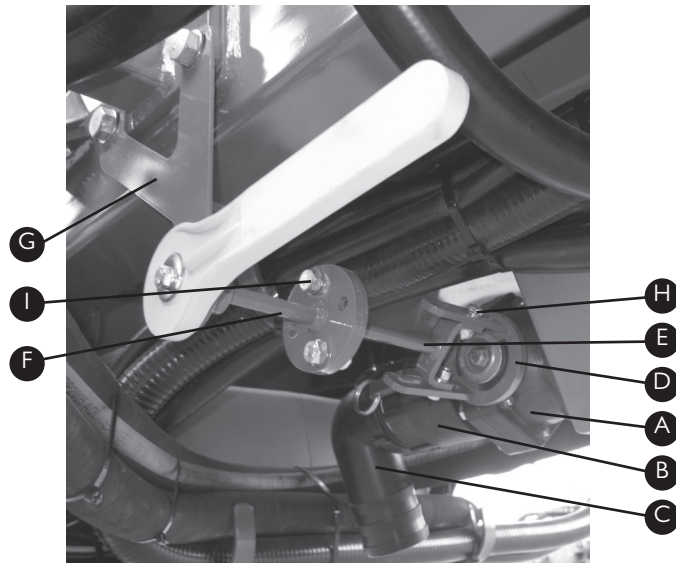
## TANK

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Part No	Description
GA5070200	4000L Tank
GA5070030	5000L Tank

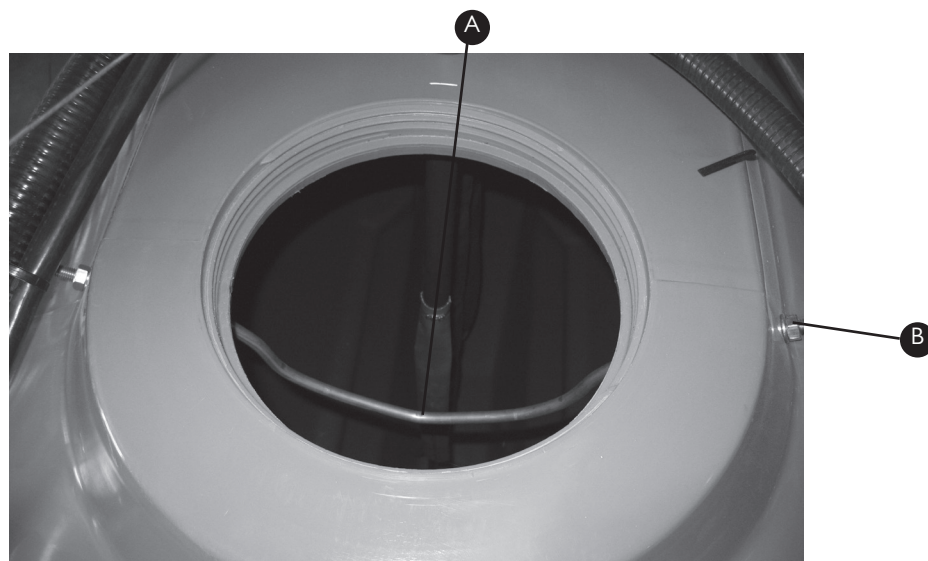
## SUMP DRAIN



Item	Part No	Description	Quantity
A	GA5078204	3" Valve (NPT)	1
B	GA5076720	3" Threaded Connector	1
C	GA5077742	90 degree 3" Elbow	1
D	GA4653656	Valve Coupling	1
E	GA4653657	Inner Drive Shaft	1
F	GA4653663	Outer Drive Shaft	1
G	GA4523050	Handle Locating Plate	1

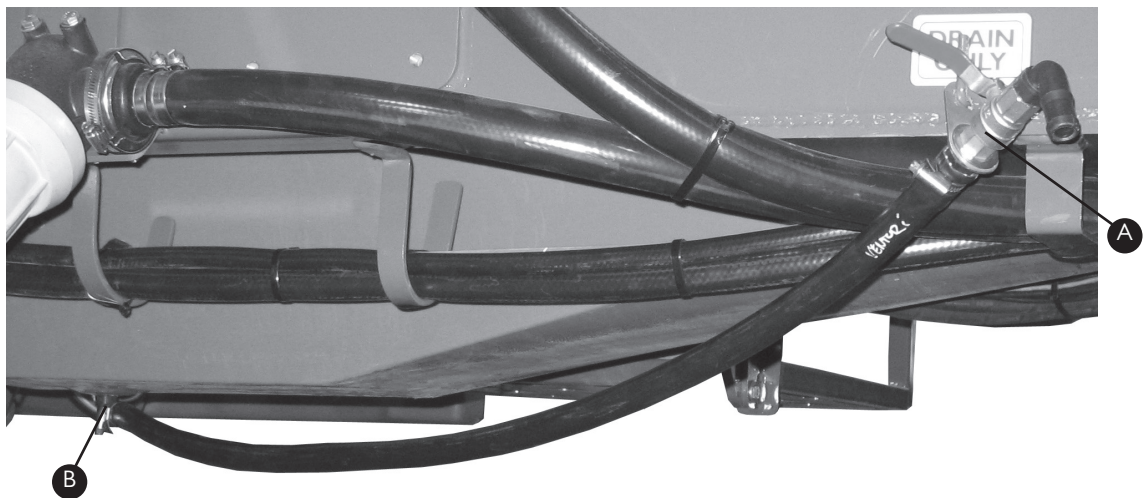
H-1	GA5004711	M8 x 25mm Bolt	2
H-2	GA5004917	M8 Nyloc Nut	2
H-3	GA5004883	8mm Washer	4
I-1	GA5065455	M10 x 30mm Bolt	2
I-2	GA5000141	M10 Nyloc Nut	2
I-3	GA5000117	10mm Washer	4

## TANK BRACING BAR



Item	Part No	Description	Quantity
A	GA4672885	Tank Bar	1
B-1	GA5000581	M12 S/S Nut	4
B-2	GA5000577	12mm Washer (S/S)	4

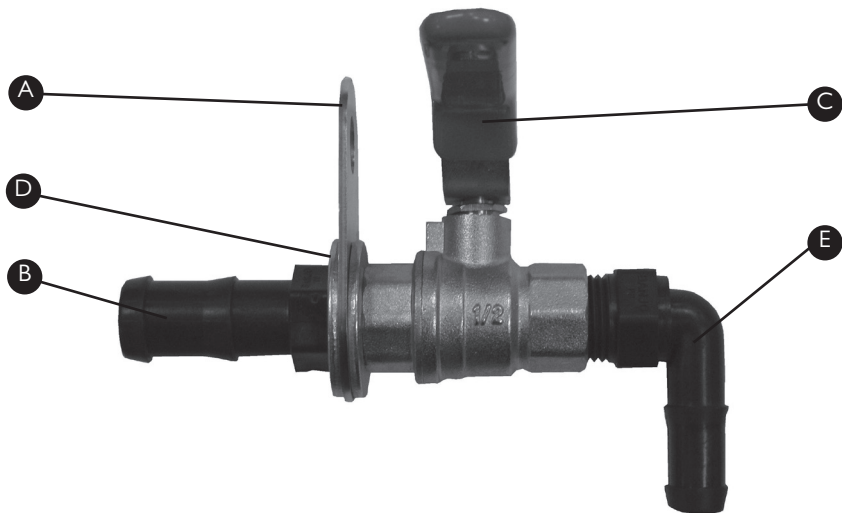
SUMP DRAIN HOSE



Item	Part No	Description	Quantity
A	GA4903097	Remote Sump Drain	1
B	GA5077704	1/2" x 3/4" Elbow	1

Note: Picture shows sump drain hose and valve located on left side of sprayer

REMOTE SUMP DRAIN HOSE VALVE



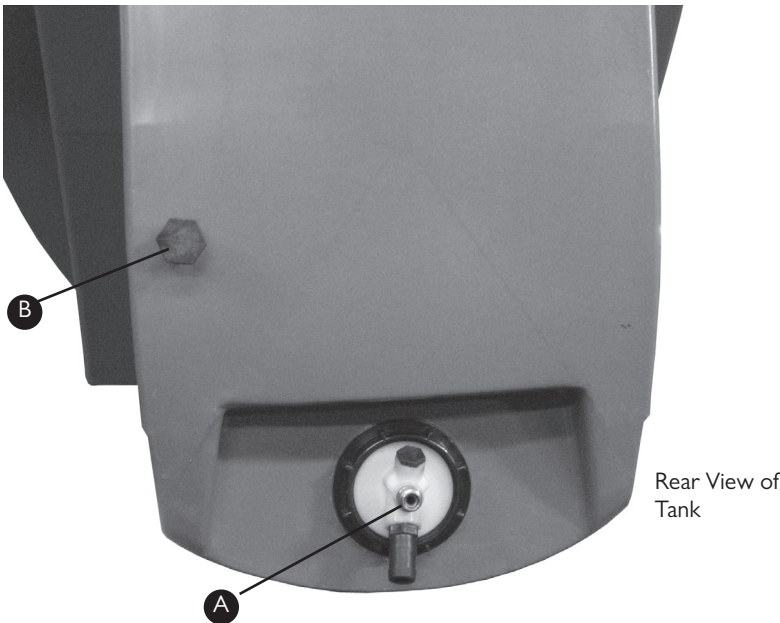
Assembly Part No. GA4903097

Item	Part No	Description	Quantity
A	F70565A	Stainless Steel Mounting Plate	1
B	HB050-075	1/2" x 3/4" Poly Hose Barb	1
C	GA5018309	Ball Valve	1

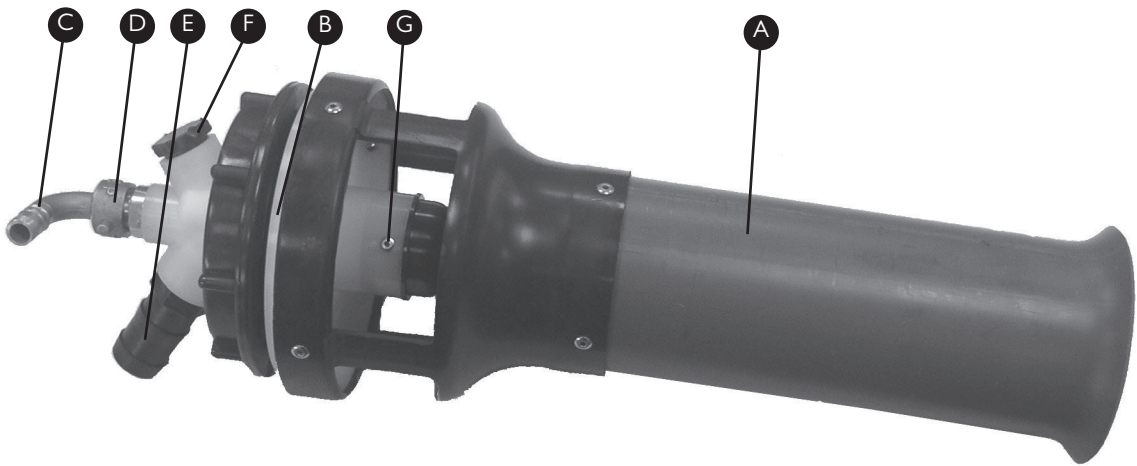
Item	Part No	Description	Quantity
D	GA5001741	20mm S/S Washer	2
E	GA5077704	1/2" x 3/4" Poly Elbow	1



SUPER MIX AGITATOR



Item	Part No	Description	Quantity
A	GA4903096	Agitator Assembly	1
B	GA5077945	1" Poly Plug	1
C	F70242A	Spanner to suit Agitator	1



Assembly Part No. GA4903096			
Item	Part No	Description	Quantity
A	GA5077038	Agitator Mixer Body	1
B	GA5020050	O-ring M5 x 100mm	1
C	GA5075657	1/2" Brass Elbow	1
D	GA5012375	1/2" Nut with O-ring	1

Item	Part No	Description	Quantity
E	GA5077715	3/4" x 1" Poly Hose Barb	1
F	GA5077943	1/2" Plug	1
G	GA5005117	1/8" x 5/16" Pop Rivet	1

TANK TOP FITTINGS



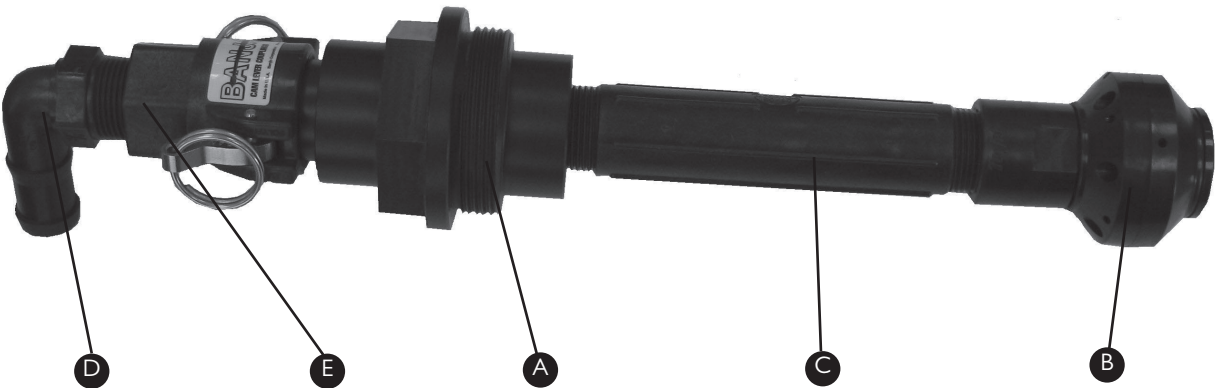
Item	Part No	Description	Quantity
A-1	GA5076877	Tank Lid*	1
A-2	GA5076715	Basket Strainer*	1
B	GA4901285-1	Tank Flush Nozzle Assembly	
		(Elbow)	1
C	GA4901285-2	Tank Flush Nozzle Assembly	
		(Tee)	1

\* Not shown in photo

# If a Hopper is fitted

Item	Part No	Description	Quantity
D	GA4903086	Venturi Assembly	1
E	GA4903136	Tank Fill	1
F	GA4903098	Hopper Inlet#	1

TANK FLUSH NOZZLE (ELBOW)

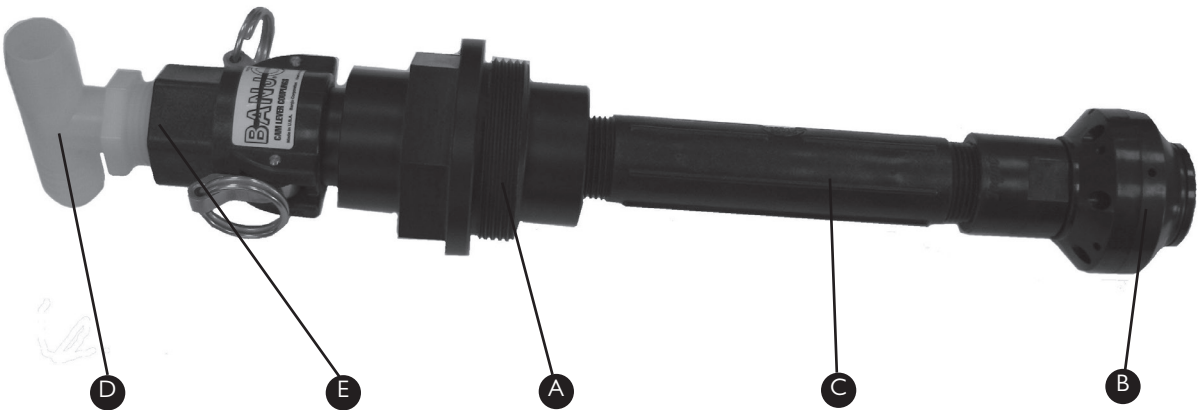


Assembly Part No. GA4901285-1

Item	Part No	Description	Quantity
A	GA4572015	Tank Adapter with Cam Lock	1
B	GA5077336	Rinse Nozzle	1
C	GA5077912	3/4" x 6" Poly Nipple	1

Item	Part No	Description	Quantity
D	GA5077717	3/4" Poly Elbow	1
E	GA5077132	3/4" Female Coupler	1

TANK FLUSH NOZZLE (TEE)

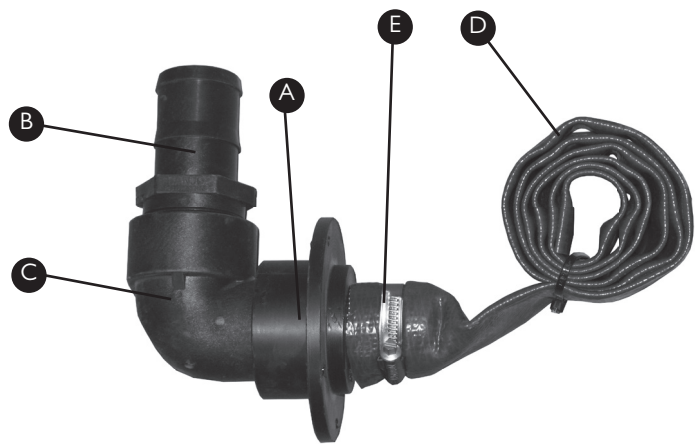


Assembly Part No. GA4901285-2

Item	Part No	Description	Quantity
A	GA4572015	Tank Adapter with Cam Lock	1
B	GA5077336	Rinse Nozzle	1
C	GA5077912	3/4" x 6" Poly Nipple	1

Item	Part No	Description	Quantity
D	GA5018776	3/4" Poly Tee	1
E	GA5077132	3/4" Female Coupler	1

TANK FILL



Assembly Part No. GA4903136

Item	Part No	Description	Quantity
A	L026A	Tank Flange	1
B	GA5077737	2" Straight Poly Hose Barb	1
C	GA5078142	2" Elbow	1

Item	Part No	Description	Quantity
D	GA2000228	50mm PVC Hose	1.55m
E	GA5003325	Hose Clamp	1
F	GA5000529	1" x 12g Screw <sup>#</sup>	3

\* Older machines were fitted with layflat hose instead of this  
# Not shown in photo

HOPPER INLET



Assembly Part No. GA4903098

Item	Part No	Description	Quantity
A	L026A	Tank Flange	1
B	GA5077739	1 1/2" Straight Poly Hose Barb	1
C	GA5078142	2" Elbow	1

Item	Part No	Description	Quantity
D	GA2000228	50mm PVC Hose*	1.55m
E	GA5003325	Hose Clamp	1
F	GA5000529	1" x 12g Screw <sup>#</sup>	3

\* Older machines were fitted with layflat hose instead of this  
# Not shown in photo

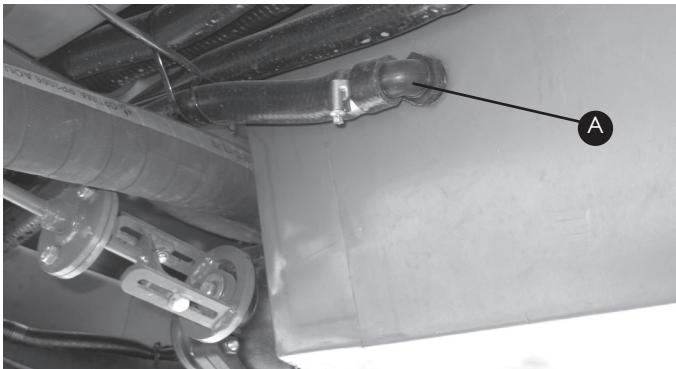
VENTURI



Assembly Part No. GA4903086			
Item	Part No	Description	Quantity
A	GA5077035	Venturi Filler	1
B	GA5076036	Hose Tail	1
C	GA5077679	O-ring M3 x 29mm	1
D	GA5078010	Poly Reducer Bush	1
E	GA5077743	3/4" Female Hose Barb	1

Item	Part No	Description	Quantity
F	MACH0022	Venturi Jet	1
G	GA5049125	O-ring Imperial BS213	3
H	GA5050205	32mm Lay Flat Hose (blue) 0.405m	
I	GA5007235	Cobra Clamp	1

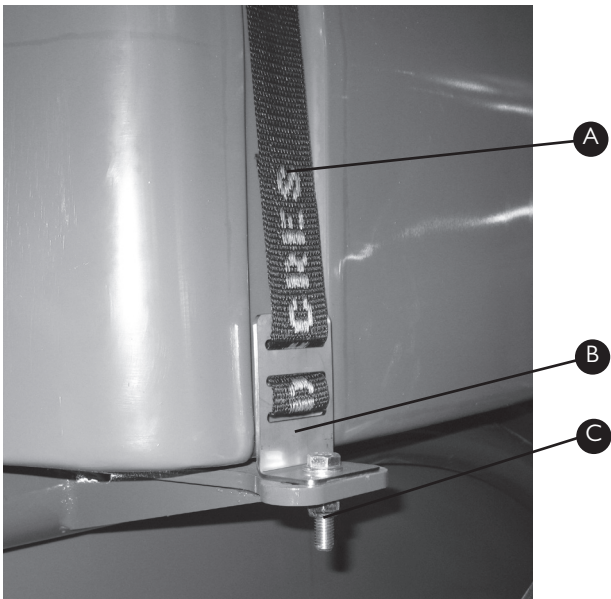
SAFETY AND PRESSURE RELIEF VALVE RETURN LINES



Item	Part No	Description	Quantity
A	GA5077723	1" Elbow	1



TANK STRAPS

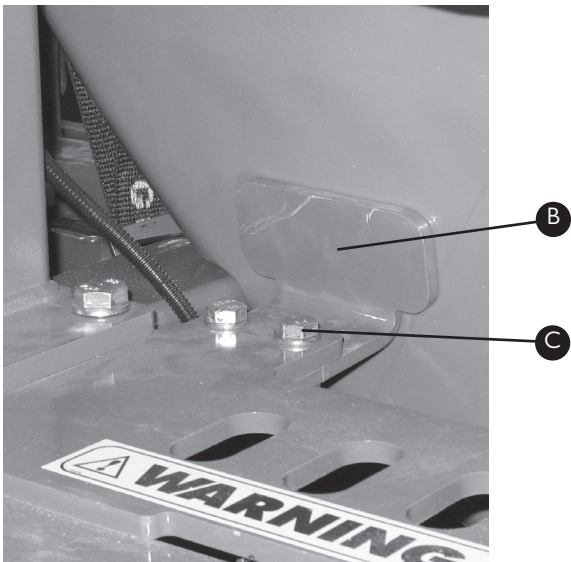


Item	Part No	Description	Quantity
A	GA5003859	50mm wide Tank Strap	*
B	F70127A	Tank Strap Mounting Bracket	4
C-1	GA5000331	M12 x 50mm Bolt	4

Item	Part No	Description	Quantity
C-2	GA5012461	M12 Nyloc Nut	4
C-3	GA5000577	12mm Washer S/S	4

\* Quantity needs to be specified when ordering

TANK STOPS



Item	Part No	Description	Quantity
A	GA4522510	Left Tank Stop	1
B	GA4522515	Right Tank Stop	1
C-1	GA5000331	M12 x 50mm Bolt	4

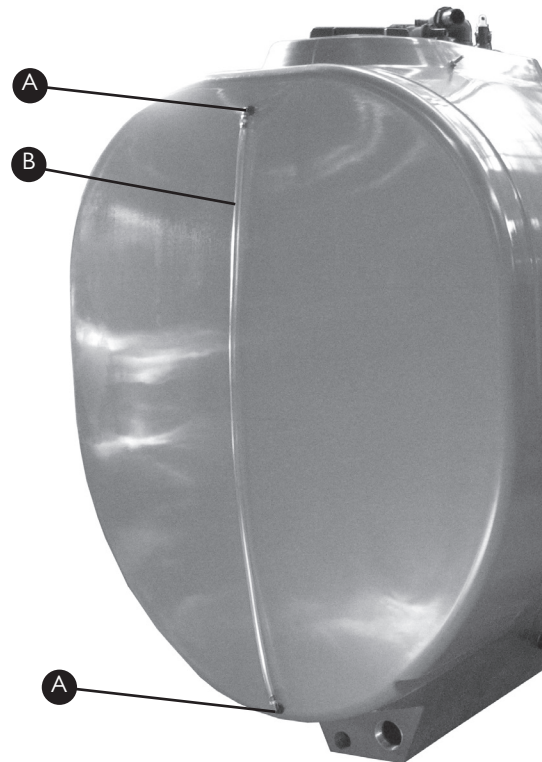
Item	Part No	Description	Quantity
C-2	GA5012461	M12 Nyloc Nut	4
C-3	GA5000577	12mm Washer S/S	8



## WET SIGHT TUBE

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Item	Part No	Description	Quantity
A	GA5077708	1/2" Elbow	2
B	GA2000209	Sight Tube Hose 1400mm	



MAIN TANK

# CHAPTER 12

## WHEELS, AXLES, MUDGUARDS



Wheels and Tyres .....	12-2
Mudguard Kits .....	12-3
Wheel Speed Sensor .....	12-4
Rigid Axles .....	12-5
Airbag Suspension .....	12-6
Airbag Compressor .....	12-8
Hubs .....	12-10

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## WHEELS & TYRES



Item	Part No	Description	Quantity
A	GA4901410	Complete Wheel and Tyre	1
B	GA5018820	38" x 15" Wheel	1
C	GA5001107	18.4 x 38 Tyre (14 ply)*	1
	GA5001108	18.4 x 38 Tyre (16 ply)*	1

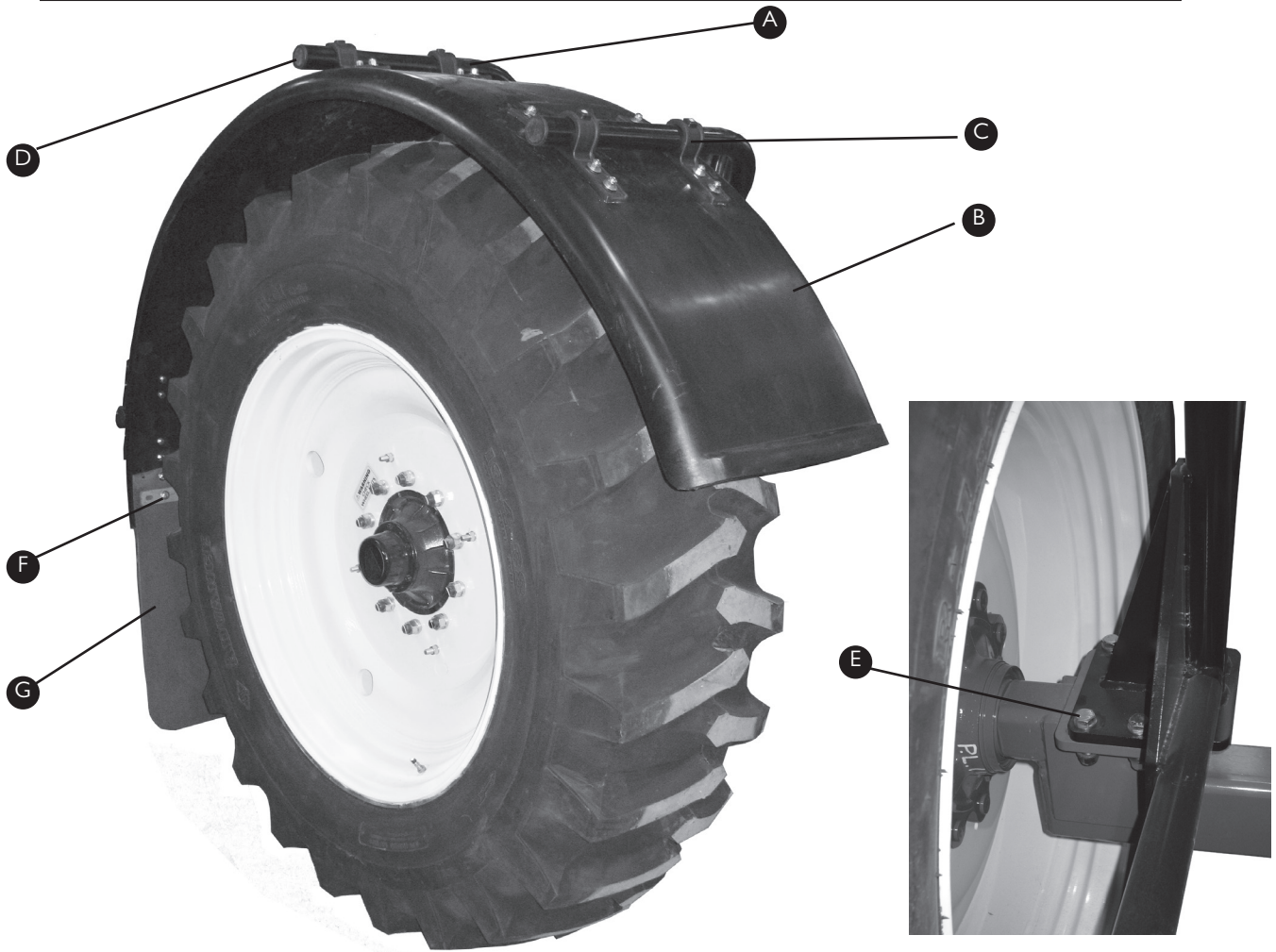
Item	Part No	Description	Quantity
D	GA5018892	22mm Wheel Nut	10
E	GA5018900	M22 Tapered Washer	10

Quantity is per side, both sides are the same.

Note: Tyres are fitted as Left or Right, Tyres also contain tube which are available at your local tyre specialist.

\* 14 ply tyre fitted standard on 4000L machines, 16 ply tyre fitted standard on 5000L machines

## MUDGUARD KITS

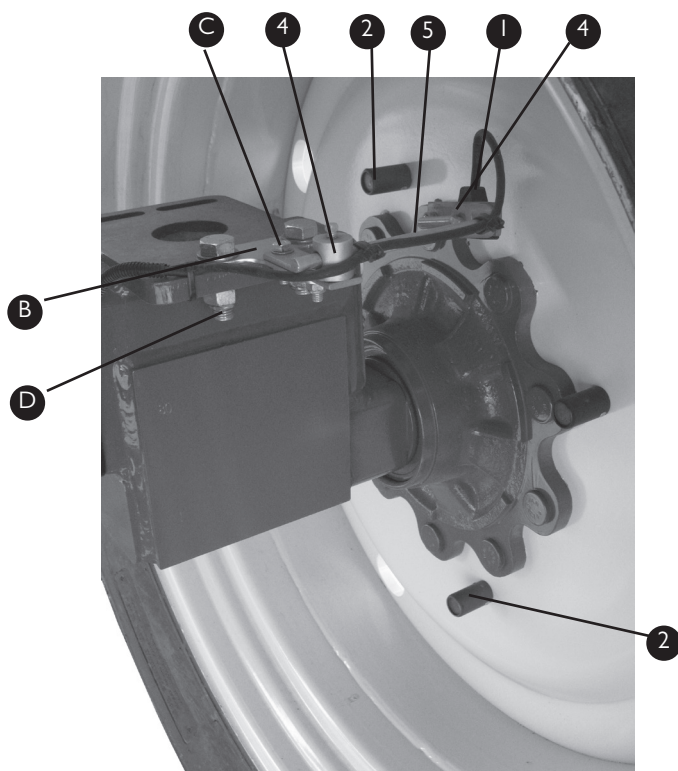


Item	Part No	Description	Quantity*
	GA4900591-EF-NS-38	Full Mudguard Kit	1
A-1	GA4655078	Mudguard Bracket RH	1
A-2	GA4655079	Mudguard Bracket LH	1
B	GA5003825	Mudguard 500W x R1000	2
C	GA5020450	Plastic Mudguard Mount	
		and mounting bolts	12
D	GA5003925	40mm Plastic Insert	6
E-1	GA5000931	M16 x 50mm Bolt (ZP)	8

Item	Part No	Description	Quantity*
E-2	GA5001029	M16 Nyloc Nut	8
E-3	GA5001043	16mm S/S Washer	16
F	GA4502725	Stiffener for Mudflap	2
G	GA5011949	Goldacres Mudflap	2
H-1	GA5006115	M10 x 25mm Bolt	6
H-2	GA5011131	M10 Dome Nut	6
H-3	GA5000139	10mm Washer	12

\* Quantity for entire machine

## WHEEL SPEED SENSOR



### Wheel Speed Sensor

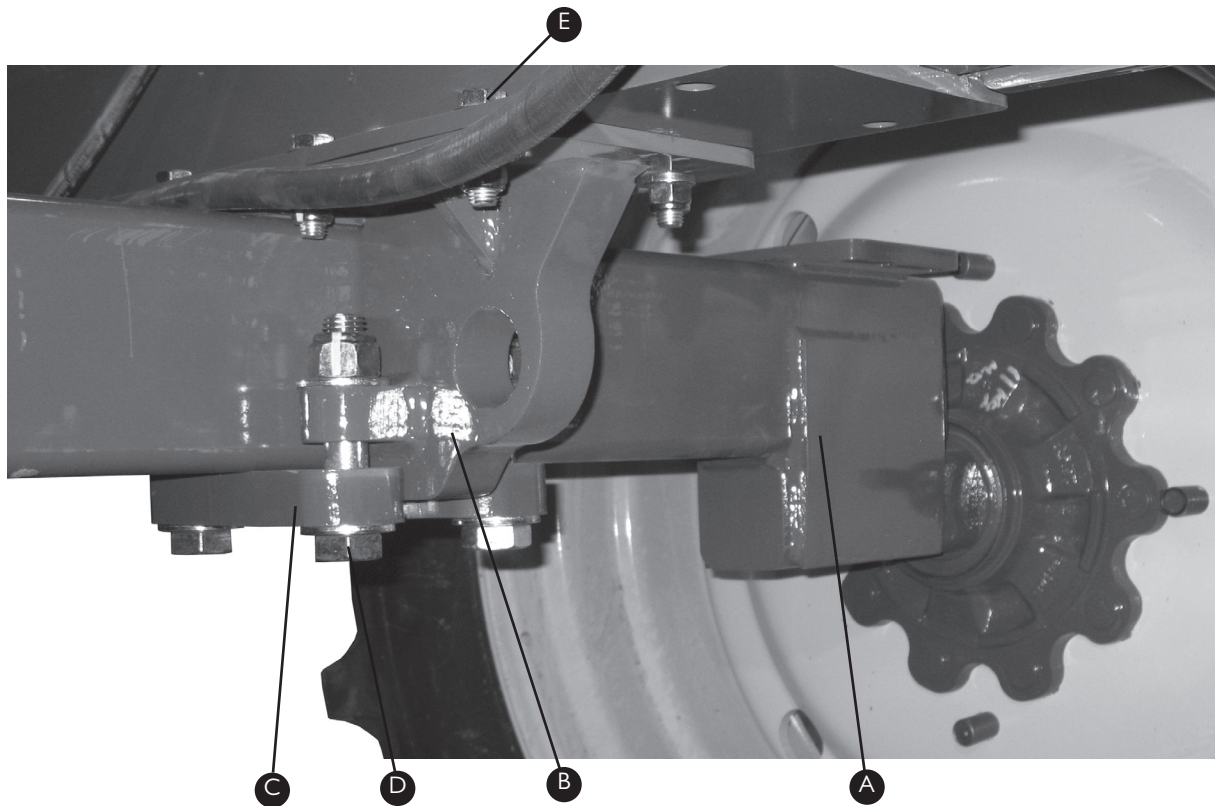
Item	Part No	Description	Quantity
A	GA5075858	Wheel Speed Sensor Kit with 4 Magnets and 7 1/2" sensor cable	1
B	GA4534520	Bolt on Mounting Tab	1
C-1	GA5004713	M8 x 25mm Bolt (ZP)	2
C-2	GA5004917	M8 Nyloc Nut	2
C-3	GA5003643	8mm Washer	4
D-1	GA5011289	M16 x 45mm Bolt (ZP)	2
D-2	GA5001029	M16 Nyloc Nut	2
D-3	GA5001043	16mm Washer	4

### Wheel Speed Sensor Kit Breakdown

Assembly Part No 0630171152			
Item	Part No	Description	Quantity
1	GA5075857	Wheel Speed Sensor with 7 1/2' sensor cable	1
2	GA5075818	Red Wheel Magnet	2
3	GA5075817	Black Wheel Magnet	2
4	GA5075822	Mounting Adapter	2
5	GA5076045	Mounting Rod	1



## RIGID AXLES



### Rigid Axle Components

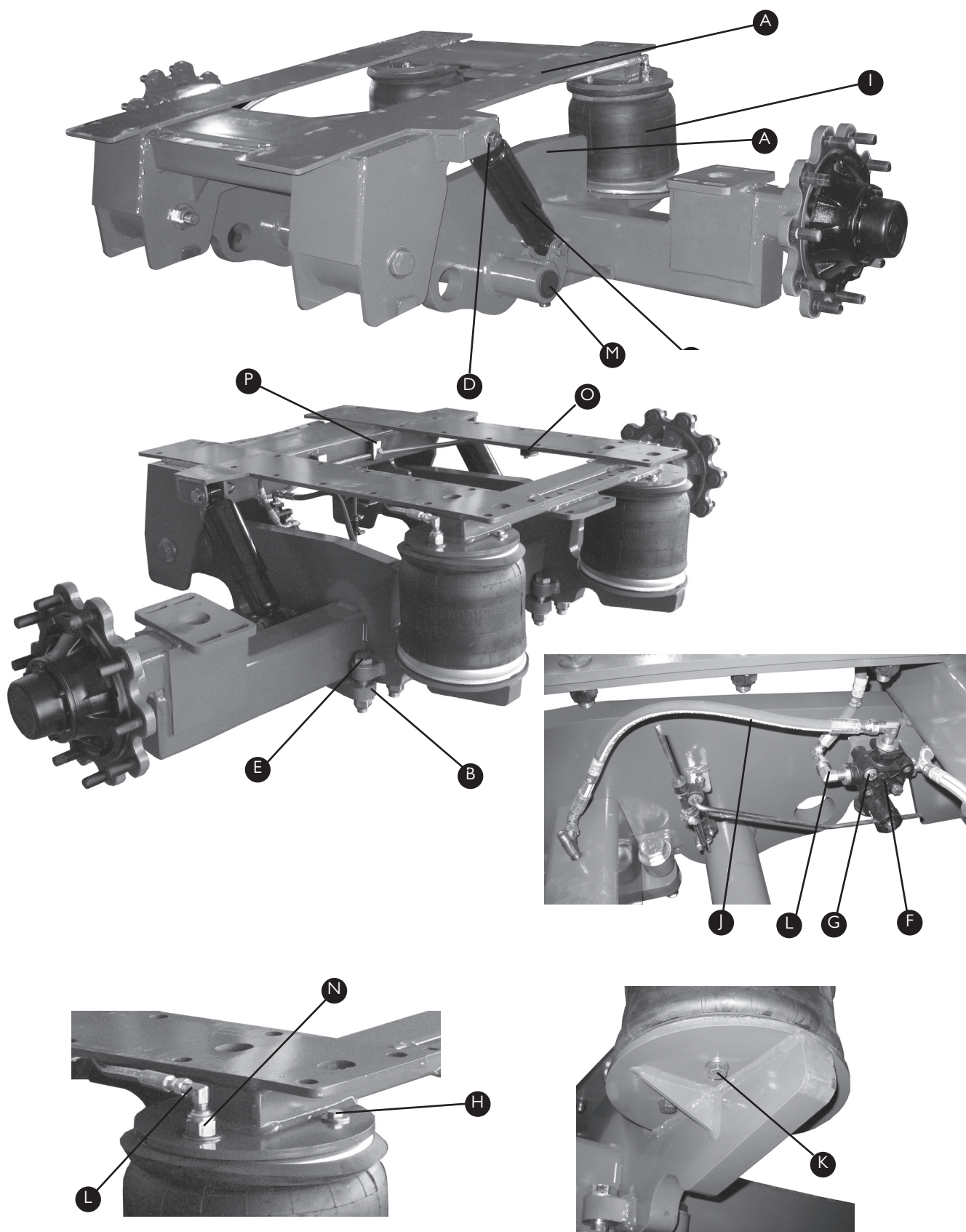
Item	Part No	Description	Quantity
B	GA4652986	Rigid Axle Carrier	2
C	GA4632050	Axle Retainer Plate	2
D-1*	GA5006149	1" UNC x 4 1/2" Bolt	8
	GA5067030	1" UNC x 6 1/2" Bolt	
D-2	GA5012439	1" UNC Nyloc Nut	8
D-3	GA5017659	1" Washer	16
E-1	GA5000931	M16 x 50mm Bolt	16
E-2	GA5001029	M16 Nyloc Nut	16
E-3	GA5001009	16mm Washer	32

### Rigid Axles

Item	Part No	Description	Quantity
A	GA4652851	2m Rigid Axle	1
	GA4652847	2.05m Rigid Axle	1
	GA4652848	2.1m Rigid Axle	1
	GA4652849	3m Rigid Axle	1

\* 4 1/2" Bolt used on axles 2m - 2.1m, when 3m axle is selected 6 1/2" bolt to be used

## AIRBAG SUSPENSION



## AIRBAG SUSPENSION

### Complete Airbag Suspension (Non-Steer)

Part No	Description
GA4900085	Complete Assembly (2.05m Axle)

### Axles to Suit Airbag Suspension

Part No	Description	Quantity
GA4652851	2m Axle	1
GA4652845	2.05m Axle	1
GA4652848	2.1m Axle	1
GA4652849	3m Axle	1

### Airbag Suspension Components

Item	Part No	Description	Quantity
A	GA4652810	Airbag Suspension Frame	1
B	GA4632005	Axle Retainer Plate	2
C	GA5015139	Shock Absorber	2
D-1	GA5049490	3/4" x 4" UNC Bolt (ZP)	4
D-2	GA5048430	3/4" UNC Nyloc Nut	4
D-3	GA5001741	20mm S/S Washer	8
E-1*2	GA5006031	1" x 5" UNC Bolt (ZP)	8
	GA5067030	1" x 6 1/2" UNC Bolt	8
E-2	GA5012439	1" UNC Nyloc Nut	8
E-3	GA5017659	1" Washer	16
F	GA5010867	Ride Height Leveling Valve	1
G-1	GA5004741	M8 x 75mm Bolt (ZP)	4
G-2	GA5004917	M8 Nyloc Nut	4
G-3	GA5003651	8mm Washer	8
H-1	GA5002599	3/8" x 1 1/4" UNC Bolt (ZP)	4
H-2	GA5002593	3/8" x 14g Washer	4
I	GA5005311	Airbag	2
J	GA5048516	Airbag Hose Kit	1

Item	Part No	Description	Quantity
	GA5048516-01	Hose from Valve to LH Airbag	1
	GA5048516-02	Hose from Valve to RH Airbag	1
	GA5048516-03	Hose from Valve to Air Tank	1
K-1	GA5006167	1/2" x 1" UNF Bolt	8
K-2	GA5017615	1/2" Washer	8
L	GA3500258	90 deg Elbow	4
M	GA5051366	Round Plastic Insert	2
N	GA5049495	3/4" UNF Nyloc Nut	2
O-1	GA5078058	Single Ryco Clamp Body	4
O-2	GA5078068	Single Ryco Clamp Top Plate	2
O-3	GA5011425	M6 x 35mm Cap Screw	4
O-4	GA5004447	6mm Spring Washer	4
P-1	GA5078031	Double Ryco Clamp Body	4
P-2	GA5078031	Double Ryco Clamp Top Plate	2
P-3	GA5011487	M8 x 40mm Cap Screw	2
P-4	GA5004921	8mm Spring Washer	2
	GA5048315	Drain Cock*1	2
	GA5046905	1/4" NPT Male Tapered Plug*1	1

### Tri-functional Bush Kit

Part No	Description
GA5066455	Trifunctional bush to suit EF*3

### Replacement Rubber for Ride Height Leveling Valve

Part No	Description
GA5014651	Replacement Rubber Kit

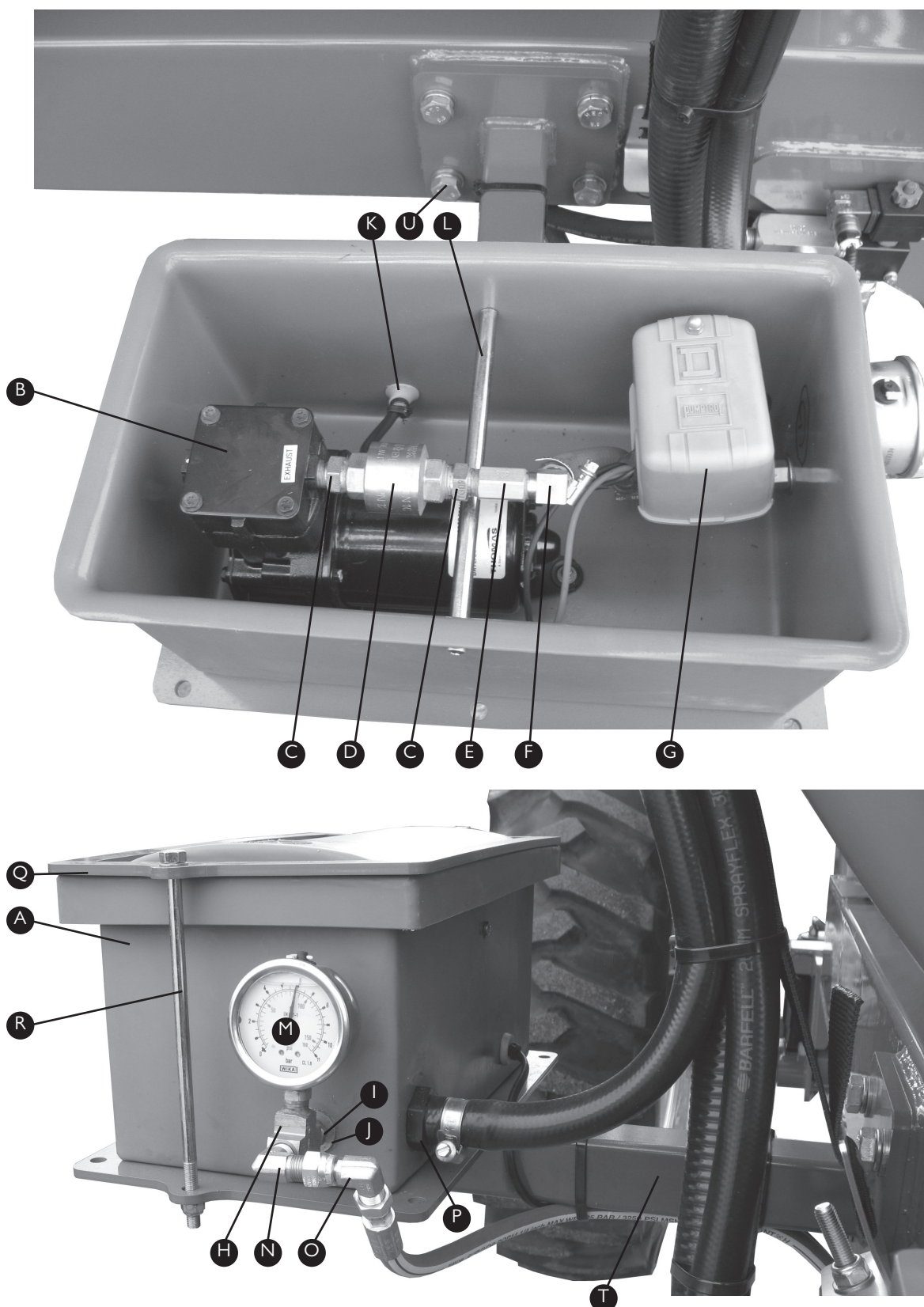
\*1 Items not shown

\*2 4 1/2" Bolt used on axles 2m - 2.1m, when 3m axle is selected 6 1/2" bolt to be used

\*3 Please Note that these bushes are filled with polyurethane



## AIRBAG COMPRESSOR



## AIRBAG COMPRESSOR

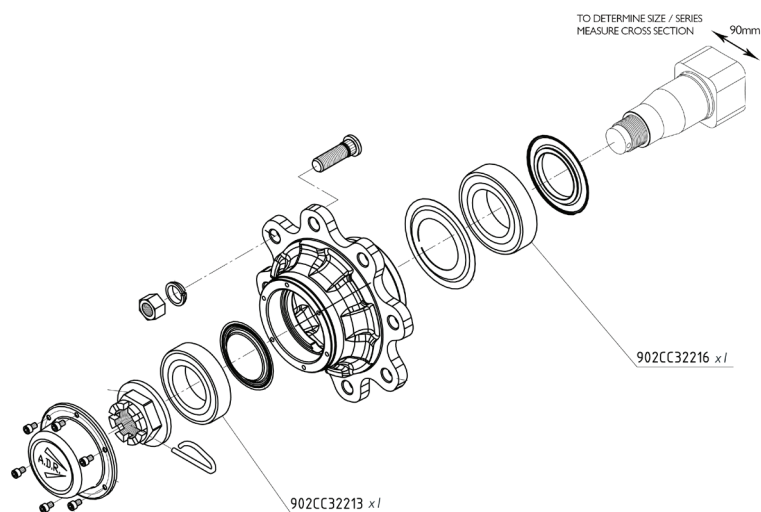


Item	Part No	Description	Quantity
A	GA5066955	Compressor Box & Lid	1
B	GA5018809	Airbag Compressor	1
C	GA5045085	3/8" x 1/4" Brass Nipple	2
D	GA5020010	3/8" Check Valve	1
E	GA5066940	1/4" Brass Socket	2
F	GA5049290	1/4" x 3/8" Brass Elbow	2
G	GA5016221	Differential Pressure Switch	1
H	GA5048300	1/4" Brass Tee	2
I	GA5050285	1/4" Brass Nipple	3
J	GA5000577	12mm S/S Washer	2
K	GA5017703	19mm x 5mm Grommet	1
L-1	GA4572130	Compressor Box Spacer	1
L-2	GA5003976	M5 x 20mm S/S Bolt	2
L-3	GA5003983	5mm S/S Washer	2

Item	Part No	Description	Quantity
M	GA4948470	Pressure Gauge	1
N	GA3500258	1/4" Elbow (Male to Male)	1
O	GA3500332	1/4" Elbow (Male to Swivel)	1
P-1	GA5077721	1" x 3/4" Hose Barb	1
P-2	GA5076630	1" Backing Nut	1
Q	F70254A	Top Retainer Plate	1
R-1	MACH0041	M8 x 210mm Bolt	2
R-2	GA5004917	M8 Nyloc Nut	2
R-3	GA5003651	8mm Washer	4
S	GA5016463	Foam Sealing Tape*	1.3m
T	GA4657695	Box Mounting Bracket	1
U-1	GA5000903	M16 x 25mm Bolt	4
U-2	GA5001043	16mm Washer	4
U-3	GA5001051	16mm Spring Washer	4

\* Not shown in pictures

## HUBS

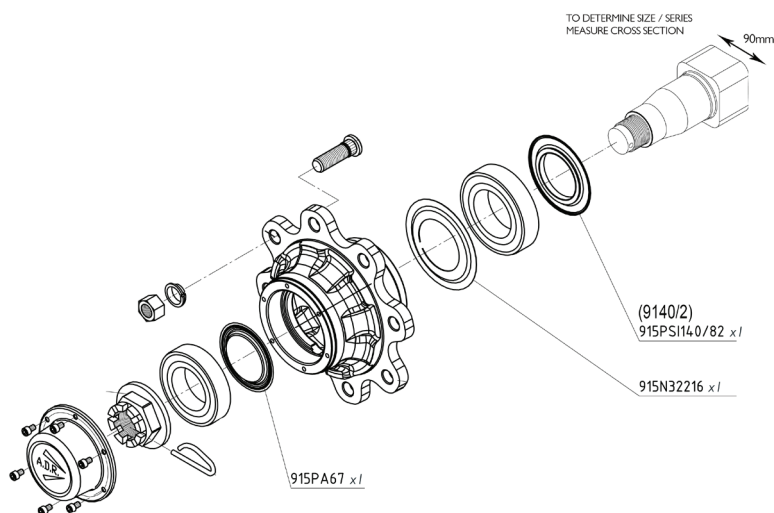


### 90 Series Bearing Kit

Part No	Description	Quantity
GA5052200	90 Series Bearing Kit	1

### Bearing Kit Contents

Part No	Description	Quantity
902CC32216	Inner Hub Bearing	1
902CC32213	Outer Hub Bearing	1



### 90 Series Seal Kit

Part No	Description	Quantity
GA5052195	90 Series Seal Kit	1

Note: Kits are per hub

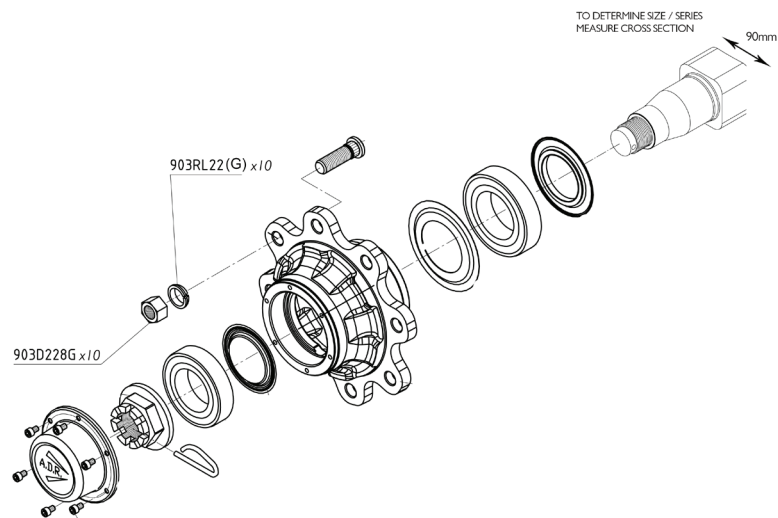
### Seal Kit Contents

Part No	Description	Quantity
915PSI140/82	Hub Seal	1
915N32216	Inner Bearing Seal	1
915PA67	Outer Gearing Seal	1

Note: Hub Seal Part No. 915PSI140/82 has been superseded by GA5066405 which is only available individually.



## HUBS

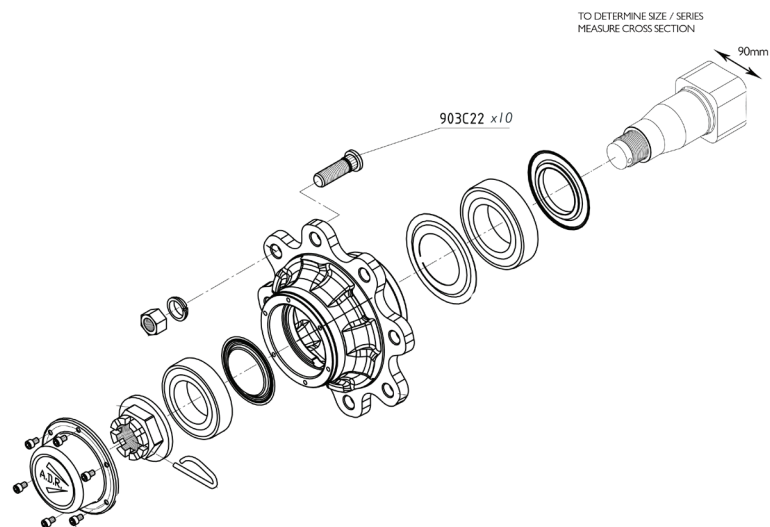


### 90 Series Nut Kit

Part No	Description	Quantity
GA5052165	90 Series Nut Kit	1

### Nut Kit Contents

Part No	Description	Quantity
903RL22(G)	Wheel Nut Washer	10
903D228G	Wheel Nut	10



### 90 Series Stud Kit

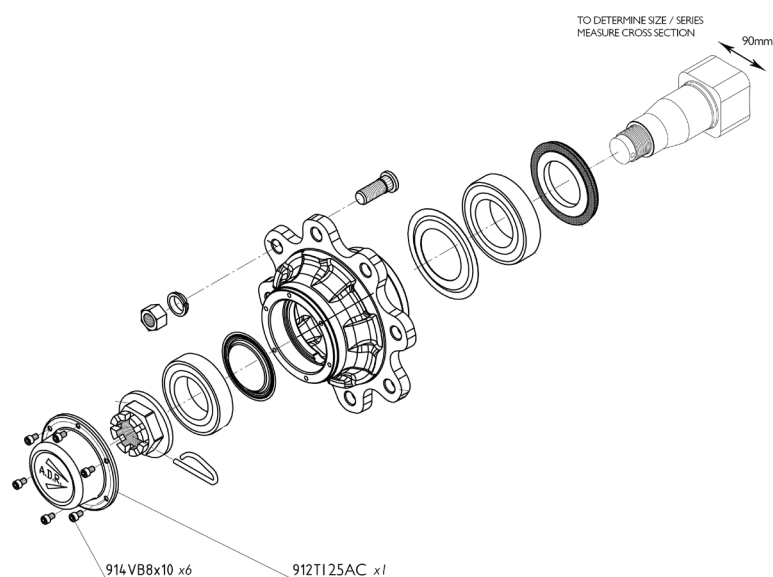
Part No	Description	Quantity
GA5052205	90 Series Stud Kit	1

### Stud Kit Contents

Part No	Description	Quantity
903C22	Wheel Stud	10

Note: Kits are per hub

## HUBS

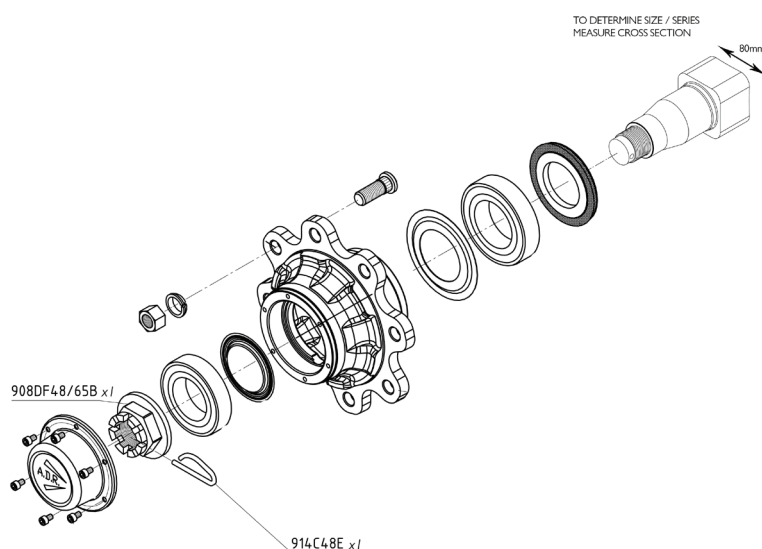


### 90 Series Cap Kit

Part No	Description	Quantity
GA5052120	90 Series Cap Kit	1

### Cap Kit Contents

Part No	Description	Quantity
912TI25AC	Dust Cap	1
914VBE	Dust Cap Screws	6



### 80/90 Series Crown Kit

Part No	Description	Quantity
GA5052190	80/90 Series Crown Nut Kit I	1

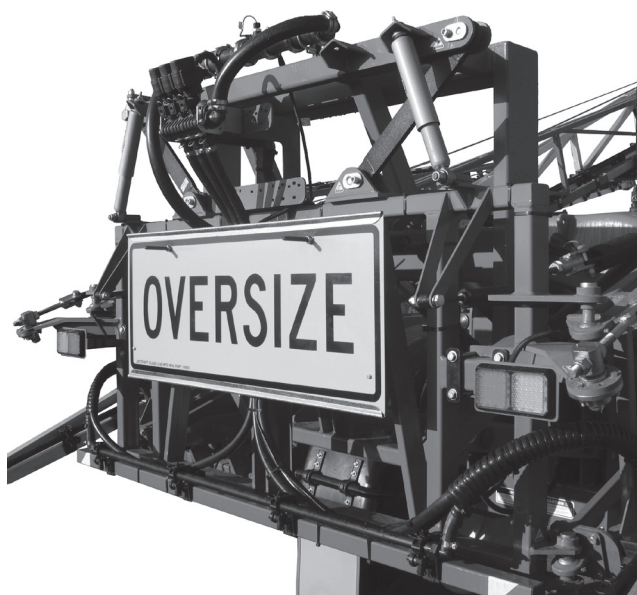
Note: Kits are per hub

### Crown Nut Kit Contents

Part No	Description	Quantity
908DF48/65B	Crown Nut	1
914C48E	Retainer Clip	1

# CHAPTER 13

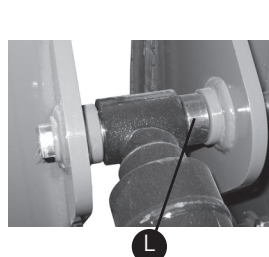
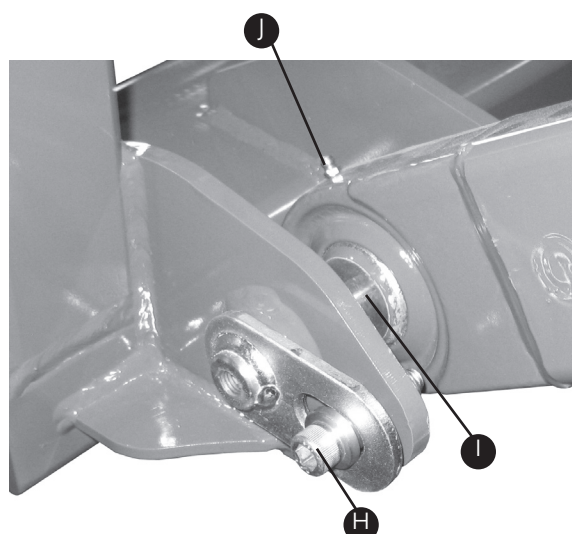
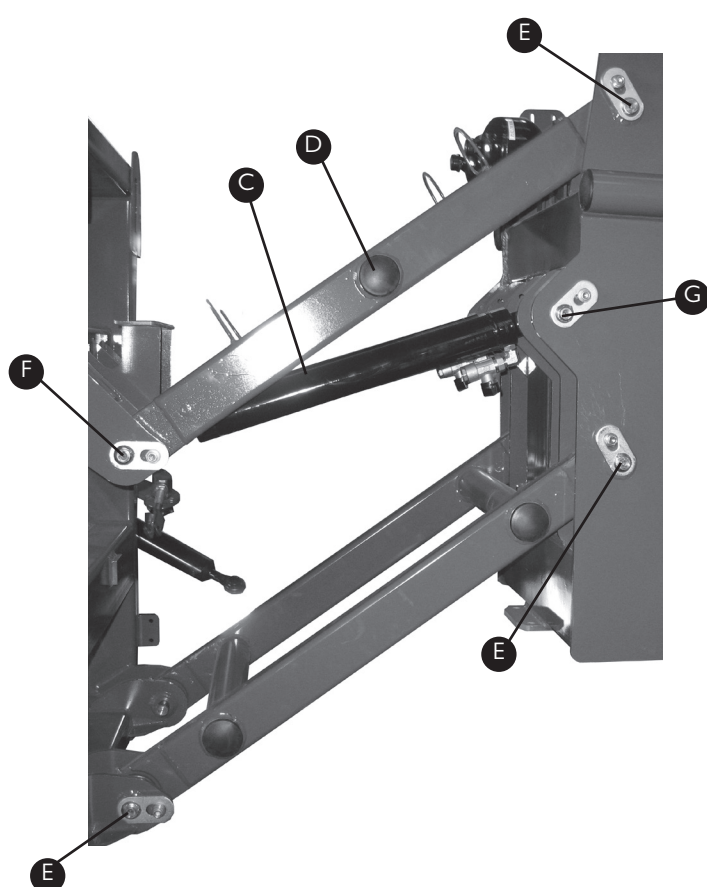
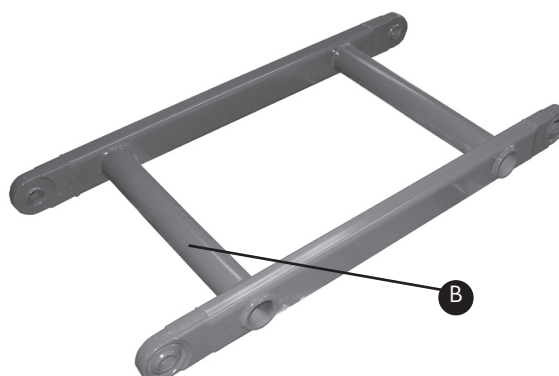
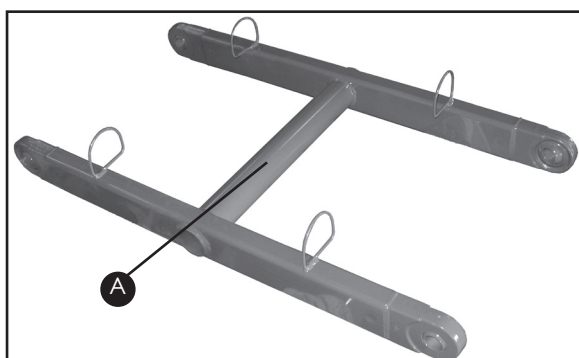
## BOOM CENTRE



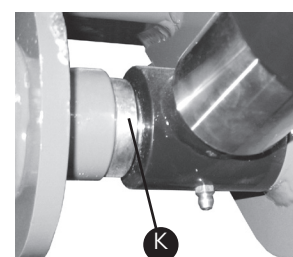
Paralift Arms & Mounting Hardware . . .	13-2
Boom Height Limit Switch . . . . .	13-3
Hydraulic Accumulators . . . . .	13-4
Accumulator Manifold. . . . .	13-4
Paralift Rear. . . . .	13-5
Delta Centre Section without Tilt . .	13-5
Delta Centre Section with Tilt . . . .	13-6
Delta Tilt Arm Accessories. . . . .	13-6
Delta Boom Delta Links . . . . .	13-7
Delta Boom Springs and Dampers . .	13-8
Delta Boom Oversize Sign . . . . .	13-8
Delta Boom Cable Adjusters . . . . .	13-9
Delta Boom Pivot Pins . . . . .	13-9
Tritech Centre Section . . . . .	13-10
Tritech Tilt Arms. . . . .	13-11
Tritech Hydraulic Tilt . . . . .	13-12
Tritech Tilt Replacement Links . . .	13-12
Tritech Boom Delta Links. . . . .	13-13
Tritech Springs & Dampers. . . . .	13-14
Tritech Oversize Sign & Brackets . .	13-15
Tritech Boom Pivot Pins . . . . .	13-16
Tritech Boom Cable Adjusters . . .	13-16
Boom Valve Assemblies . . . . .	13-17
Boom Valve Components. . . . .	13-17
Boom Section Valve Components .	13-18
Boom Section Valve with Pressure Relief. .	13-19

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## PARALIFT ARMS AND MOUNTING HARDWARE



Picture of base end of cylinder (Chassis End)



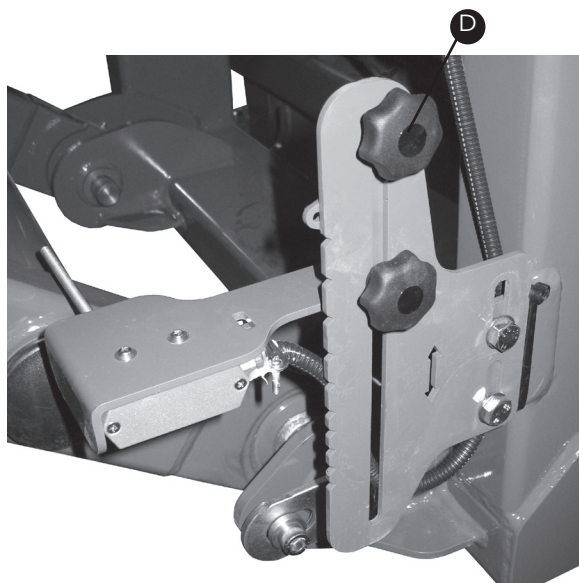
Picture of rod end of cylinder (Rear End)

Item	Part No	Description	Quantity
A	GA4654106	Top Paralift Arm	1
B	GA4654101	Bottom Paralift Arm	1
C	GA5070075	Hydraulic Ram	2
D	GA5050355	Round Plastic Plug	6
E	GA5066655	Short Arm Pin	6
F	GA5066675	Long Arm and Cylinder Pin	2
G	GA5066645	Long Cylinder Only Pin	2

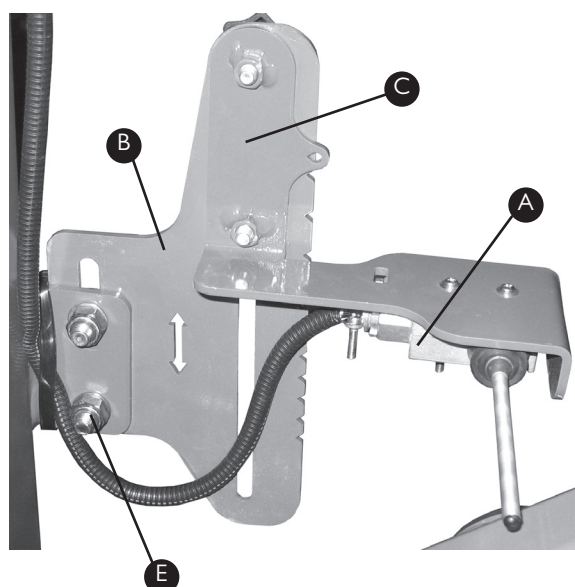
\* Complete Pin and Bush Kit Available Part No. GA5066670

Item	Part No	Description	Quantity
H-1	GA5051470	M12 x 50mm Cap Screw	10
H-2	GA5012461	M12 Nyloc Nut	10
H-3	MACH0152	Spacer	10
I	MACH0134	Bush	8
J	GA5050450	Grease Nipple	10
K	GA4572134	Narrow Cylinder Bush	2
L	GA4562190	Wide Cylinder Bush	2

## BOOM HEIGHT LIMIT SWITCH



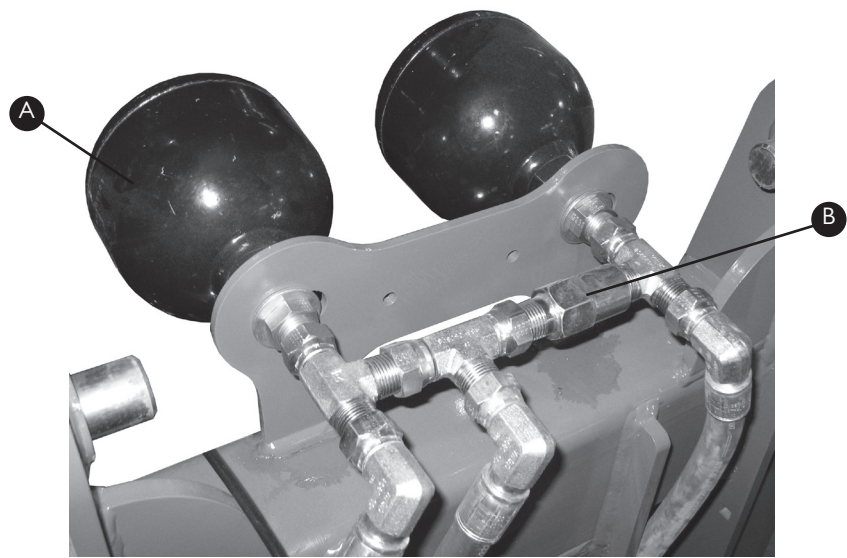
Item	Part No	Description	Quantity
A	GA5012129	Limit Swicth	1
B	GA4522290	Chassis Bracket	1
C	GA4654161	Adjustable Bracket	1
D-1	GA5067080	M8 x 20mm Plastic Knob	2



Item	Part No	Description	Quantity
D-2	GA5004913	8mm Washer	2
E-1	GA5065455	M10 x 30mm Bolt	2
E-2	GA5000141	M10 Nyloc Nut	2
E-3	GA5000139	10mm Washer	4



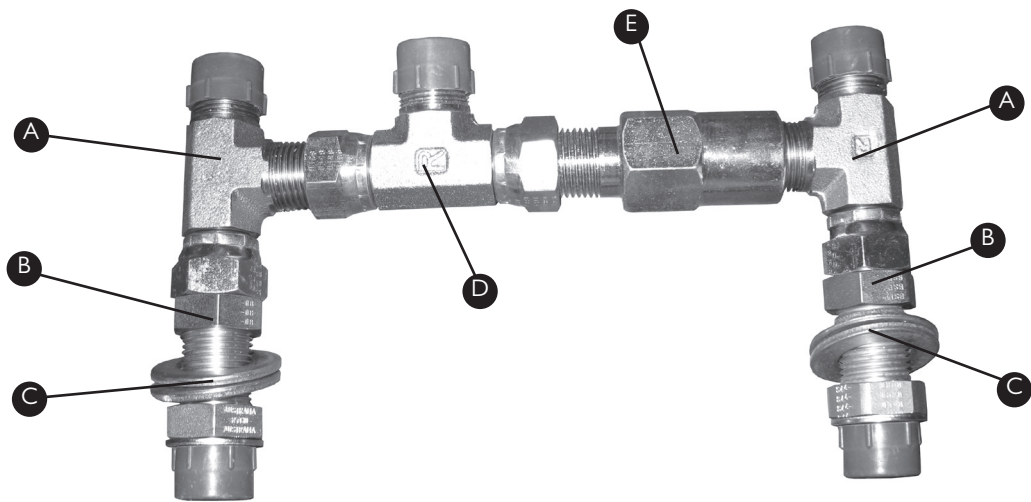
# HYDRAULIC ACCUMULATORS



Item	Part No	Description	Quantity
A	GA5007789	Accumulator (48 bar)	2
B	GA4903058	Accumulator Manifold*	1

\* See Below

# ACCUMULATOR MANIFOLD



Assembly Part No GA4903058			
Item	Part No	Description	Quantity
A	GA3500200	Hydraulic Tee	2
B	GAS99-603	Hydraulic Nipple	2
C	GA5001045	3/4" Washer	4

Item	Part No	Description	Quantity
D	GA3500336	Hydraulic Tee	1
E	GA4572110	Hydraulic Fitting	1



## PARALIFT REAR

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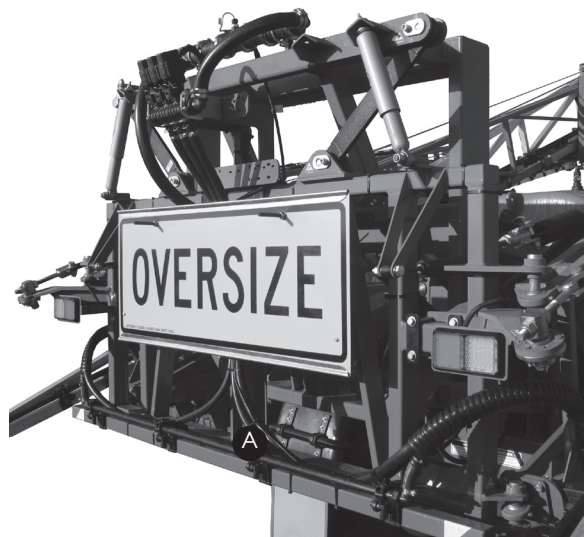
Item	Part No	Description
A	GA4654121	Paralift Rear (Delta Boom)
A	GA4654155	Paralift Rear (Tritech Boom/MK3)



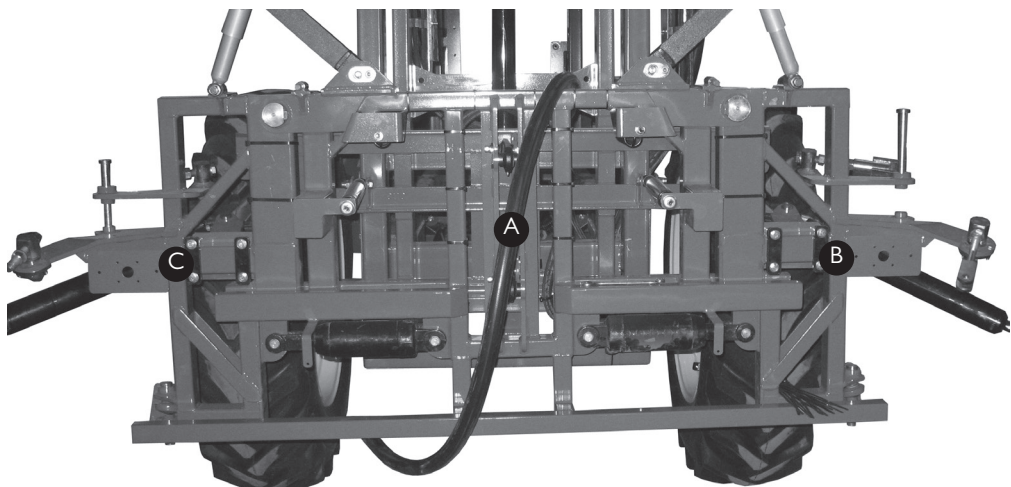
## DELTA CENTRE SECTION WITHOUT TILT

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Item	Part No	Description
A	GA4653270	Centre Section without Tilt



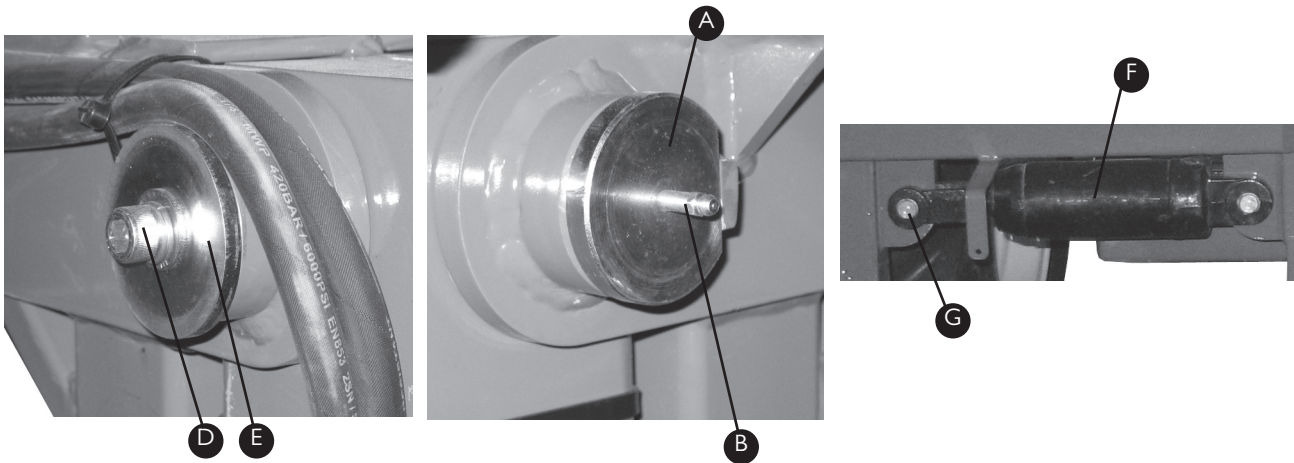
# DELTA CENTRE SECTION WITHOUT TILT



Item	Part No	Description	Quantity
A	GA4653270	Centre Section without Tilt	1
B	GA4653290	Right Tilt Arm	1
C	GA4653295	Left Tilt Arm	1

Note centre shown in photo is on a 3000 special with tower but is identical to those used on the 4000 special.

# DELTA TILT ARMS ACCESSORIES

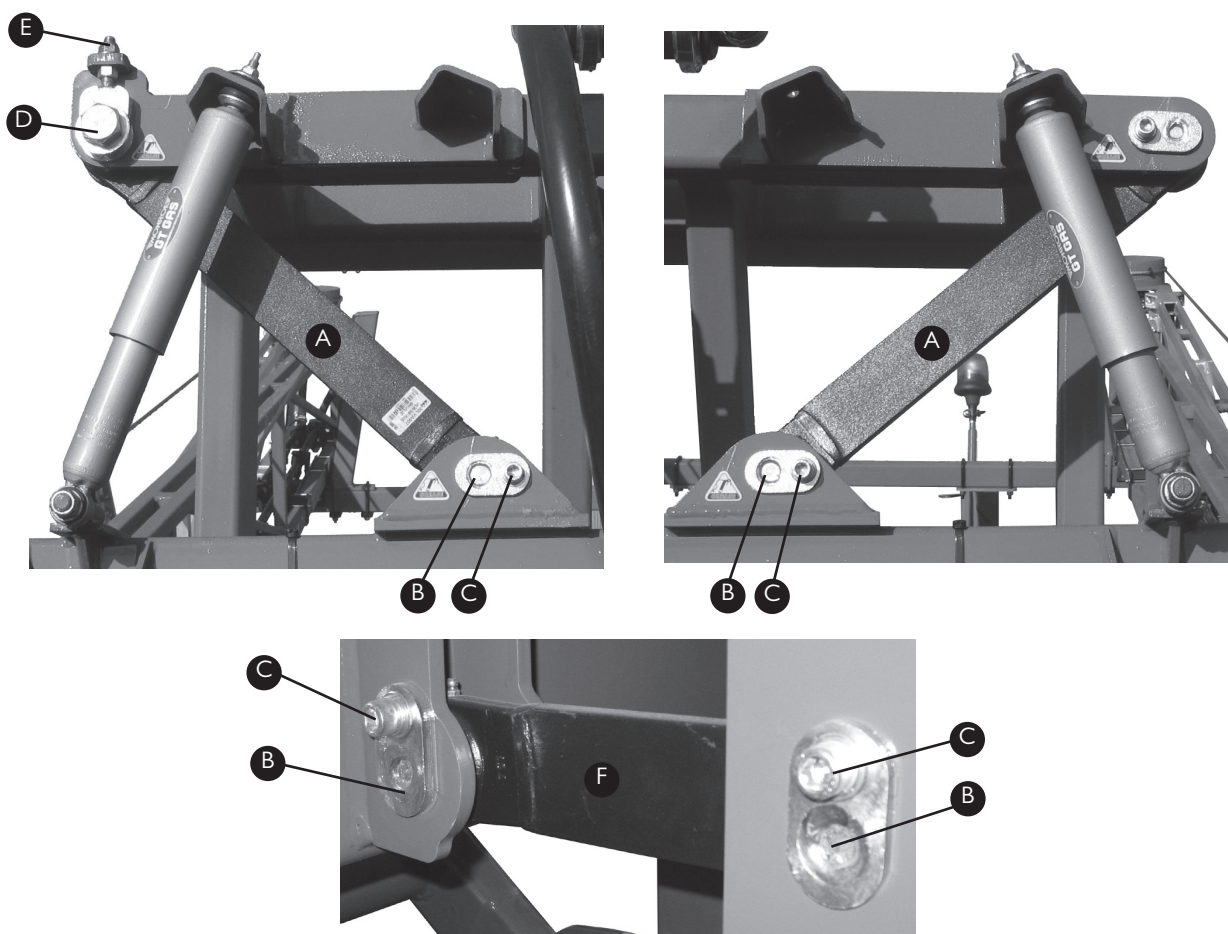


Item	Part No	Description	Quantity*
A	MACH0115	Tilt Arm Pin	1
B	GA5012203	Grease Nipple	1
C	GA5009473	Glacier Bush 40IDx30mm#	2
D-1	GA5000307	M12 x 30mm Cap Screw	1
D-3	GA5000577	12mm Washer	1

Item	Part No	Description	Quantity*
D-4	GA5000575	12mm Spring Washer	1
E	F70111A	Tilt Pin Washer	1
F	GA5018551	Tilt Cylinder (3 1/2" x 5")	1
G-1	L054A	Ram Pin	2
G-2	GA5001223	19mm E-Type Clip	2

\* Quantity based on per tilt arm  
# Not shown pressed into arm

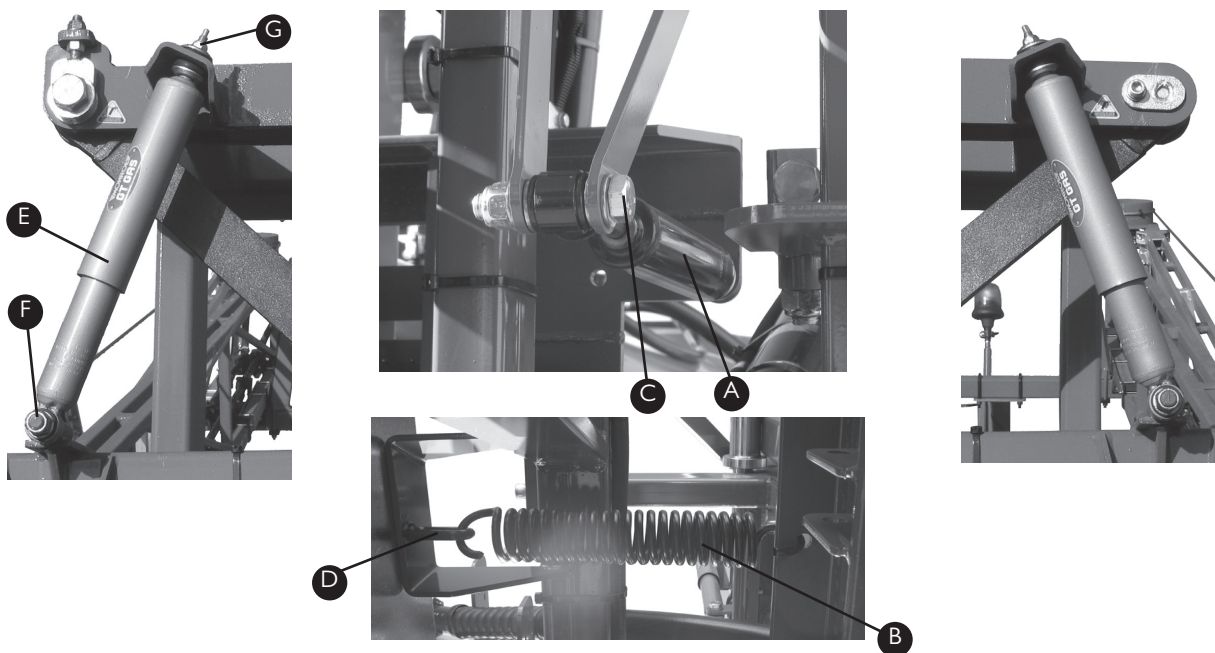
## DELTA BOOM DELTA LINKS



Item	Part No	Description	Quantity
A	GA4656240	Long Delta Link	2
B	Pin-1-87	Delta Link Pin	7
C-1	GA5000297	M12 x 25mm Cap Screw	7
C-2	GA5000577	12mm Washer	7
C-3	GA5000575	12mm Spring Washer	7
D-1	GA4683145	1" x 6" UNC Bolt	1

Item	Part No	Description	Quantity
D-2	GA5012439	1" UNC Nyloc Nut	1
D-3	GA5017659	1" Washer	4
E-1	GA4656260	Adjuster	2
E-2	GA5012461	M12 Nyloc Nut	2
E-3	GA5000559	M12 Nut	2
F	GA5067855	Short Delta Link	2

## DELTA BOOM SPRINGS & DAMPERS

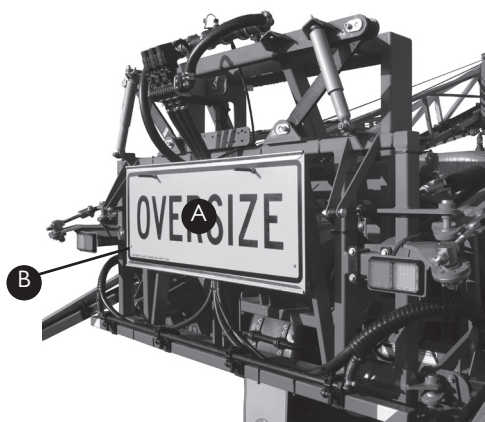


Item	Part No	Description	Quantity*
A	GA5015899	Steering Damper	2
B	GA5016605	Yaw Spring	2
C-1	GA5011307	M16 x 80mm Bolt	2
C-2	GA5001029	M16 Nyloc Nut	2
C-3	GA5001043	16mm Washer	8
D-1	GA5008545	M12 x 150mm Eye Bolt	2

Item	Part No	Description	Quantity*
D-2	GA5012461	M12 Nyloc Nut	2
D-3	GA5000577	12mm Washer	2
E	GA5015145	Damper	2
F-1	GA5001029	M16 Nyloc Nut	2
F-2	GA5001043	16mm Washer	2
G	GA5004917	M8 Nyloc Nut	2

\* Quantities based on required amount for entire centre section

## DELTA BOOM OVERSIZE SIGN



Item	Part No	Description	Quantity
A	GA5009613	Oversize Sign	1
B-1	GA5004711	M8 x 25mm Bolt	2

Item	Part No	Description	Quantity
B-2	GA5004917	M8 Nyloc Nut	2
B-3	GA5003643	8mm Washer	4

Note that the sign also uses the yaw spring eye bolts as mounting points



## DELTA BOOM CABLE ADJUSTERS

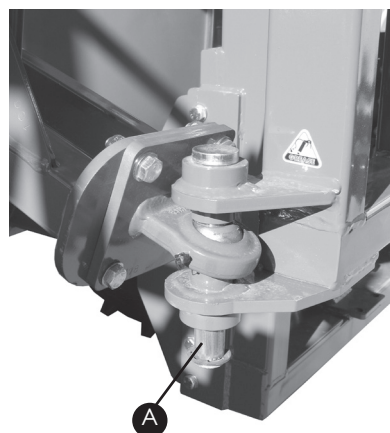
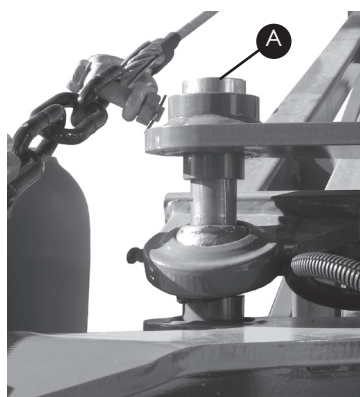


Item	Part No	Description	Quantity*
A	MACH0029	Eccentric Bush	1
B-1	GA5048655	M8 x 40mm Bolt	3
B-2	GA5004917	M8 Nyloc Nut	3
B-3	GA5004913	8mm Washer	3
C-1	L006A	Boom Cable Swivel	1
C-2	GA5048125	M20 x 2.5 Nyloc Nut	1
D-1	GA5020320	Threaded cable adjuster	1
D-2	GA5048125	M20 x 2.5 Nyloc Nut	1

Item	Part No	Description	Quantity*
D-3	GA5001709	M20x2.5 Nut	1
D-4	GA5001741	20mm Washer	1
E-1	GA5000941	M16 x 60mm Bolt	1
E-2	GA5001029	M16 Nyloc Nut	1
E-3	GA5001043	16mm Washer	2
F	GA5065020	Chain	4 Links
G	GA5000669	D Shackle	1

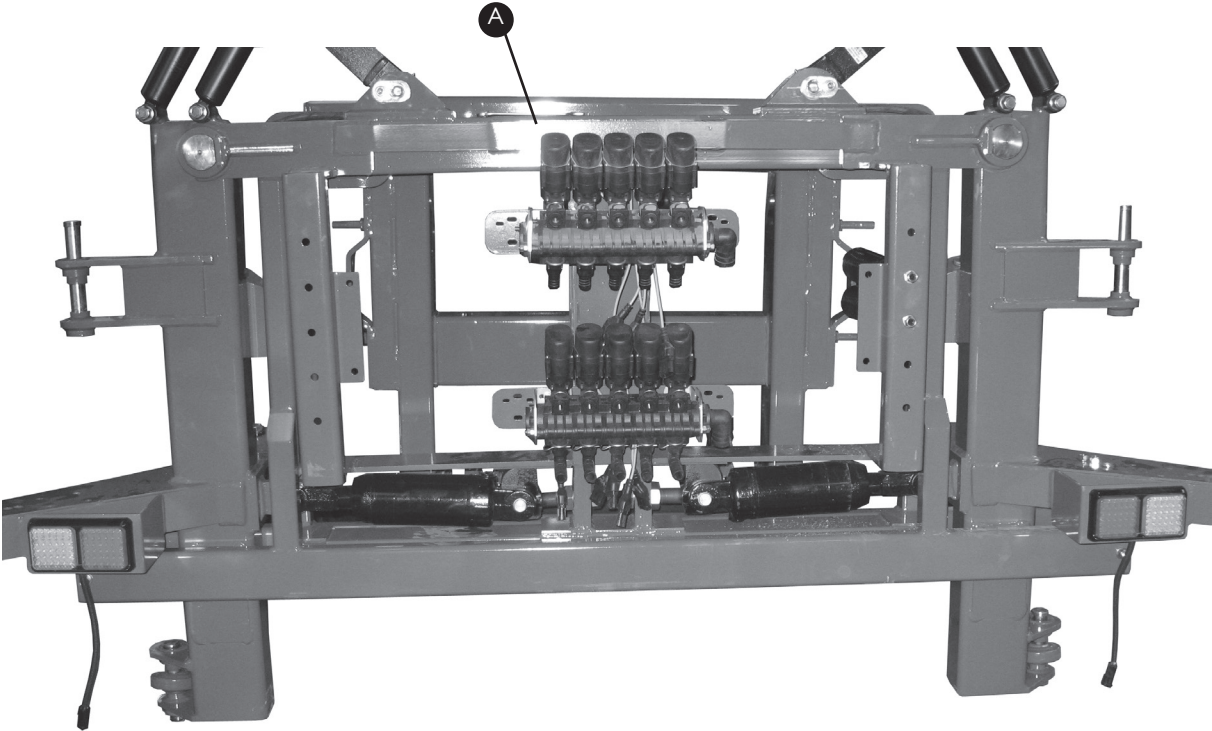
\* Quantity based on per side

## DELTA BOOM PIVOT PINS



Item	Part No	Description	Quantity
A-1	L002A	Pivot Pin	4
A-2	GA5001223	19mm E-Clip	4

# TRITECH CENTRE SECTION

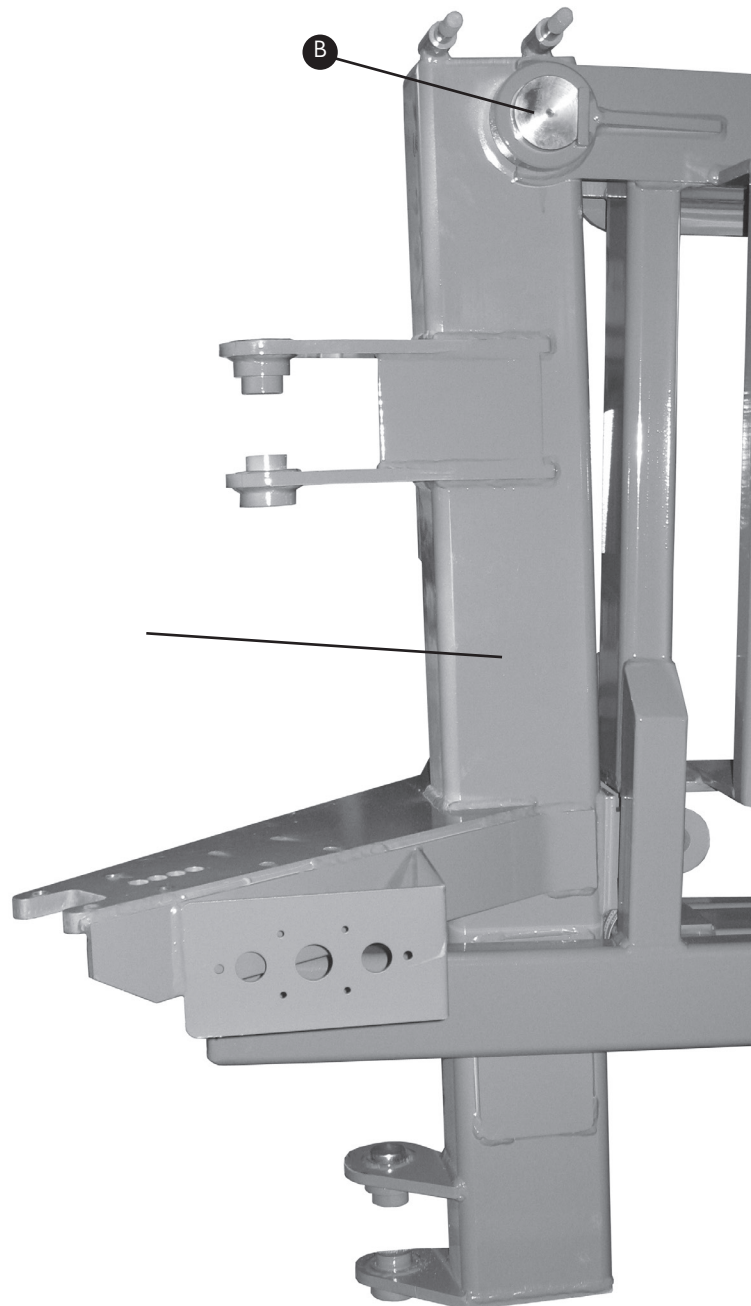


Item	Part No	Description	Quantity
A	GA4653200	MK3 Centre Section	1

# Please note that this part does not include the tilt arms as shown and if required they must be ordered seperately.



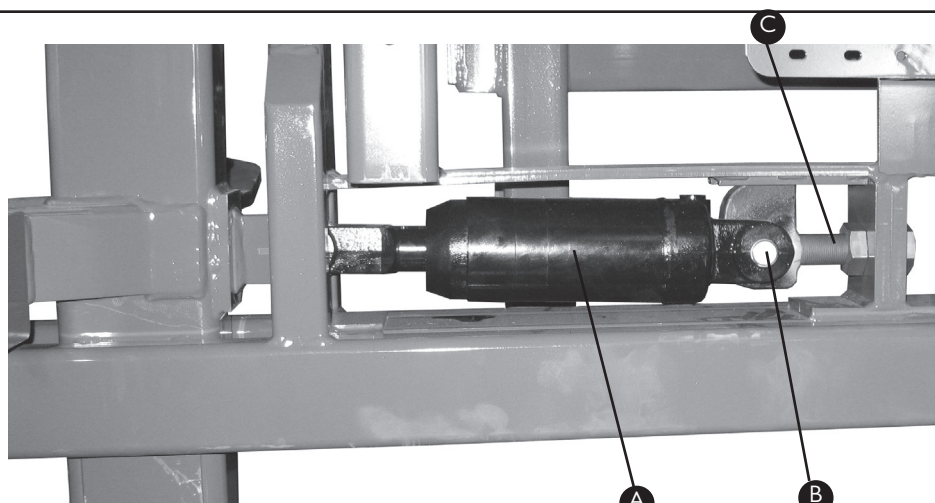
## TRITECH TILT ARMS



Item	Part No	Description	Quantity
A	GA4653220	Right Tilt Arm (MK3)	1
	GA4653225	Left Tilt Arm (MK3)	1
B-1	L018A	Pivot Pin	1
B-2	GA5020120	M12 x 30mm Cap Screw	1

Item	Part No	Description	Quantity
B-3	GA5000577	12mm Washer	1
B-4	F70111A	Large Washer	1
B-5	GA5009475	Glasier Bush	1

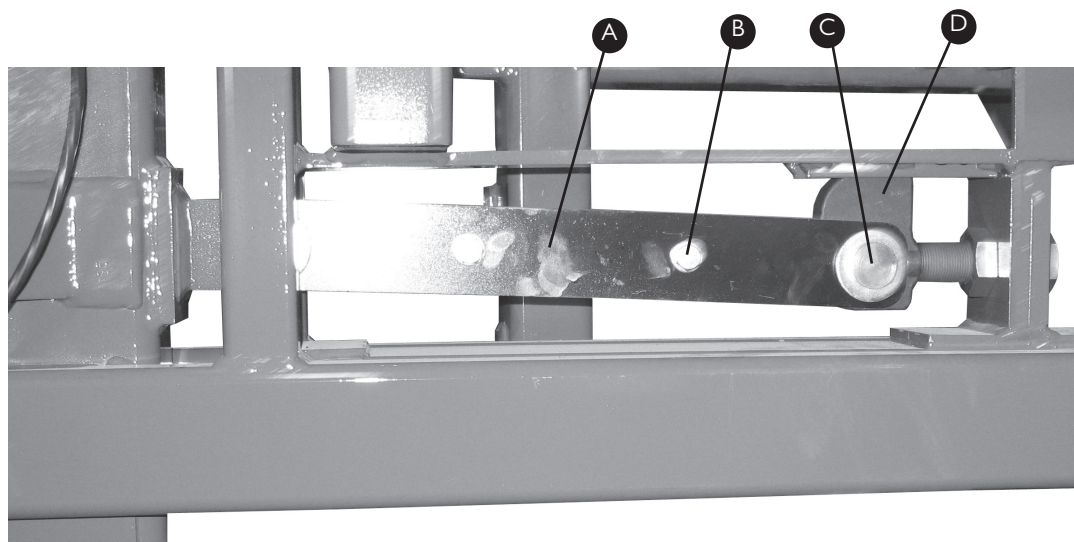
## TRITECH HYDRAULIC TILT



Item	Part No	Description	Quantity
A	GA5018551	Tilt Cylinder 3.5"	2
B-1	L068	Ram Pin	4
B-2	GA5001223	19mm E-Type Circlip	4

Item	Part No	Description	Quantity
C-1	GA4653330	Tilt Adjuster	2
C-2	GA5010973	1 1/4" UNF Lock Nut	4

## TRITECH TILT REPLACEMENT LINKS\*

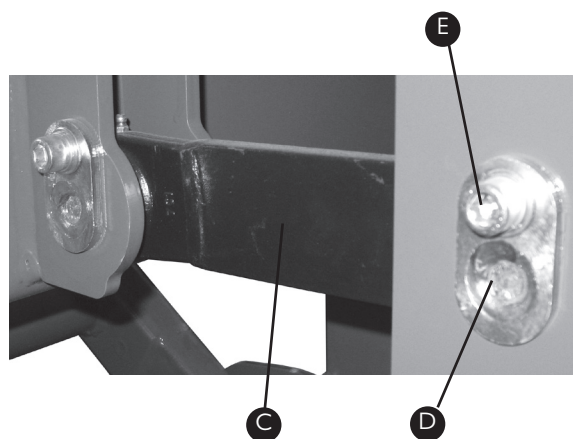
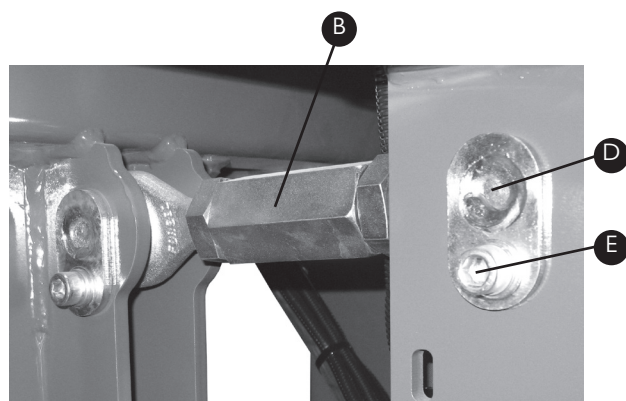
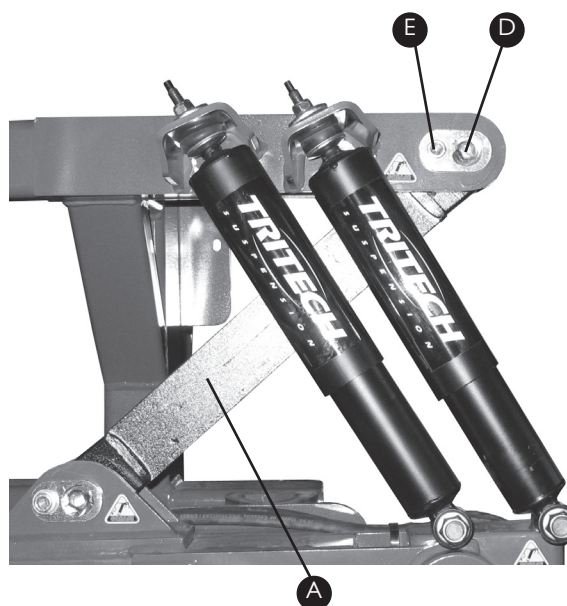
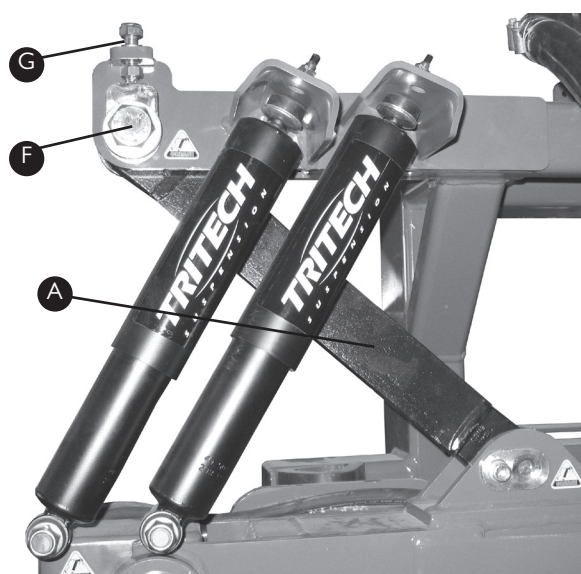


Item	Part No	Description	Quantity
A	24MK3CS010LAS	Tilt Replacement Link	4
B-1	GA5000347	M12 x 70mm Bolt	4
B-2	GA5012461	M12 Nyloc Nut	4
B-3	24MK3CS011M	Crush Tube	4
B-4	GA5000577	12mm Washer	8

Item	Part No	Description	Quantity
C-1	L054A	Tilt Ram Pin	4
C-2	GA5001223	19mm E-Type Circlips	4
D-1	GA4653330	Tilt Adjuster	2
D-2	GA5010973	1 1/4" UNF Lock Nut	4

\* Used on sprayer without Hydraulic Tilt

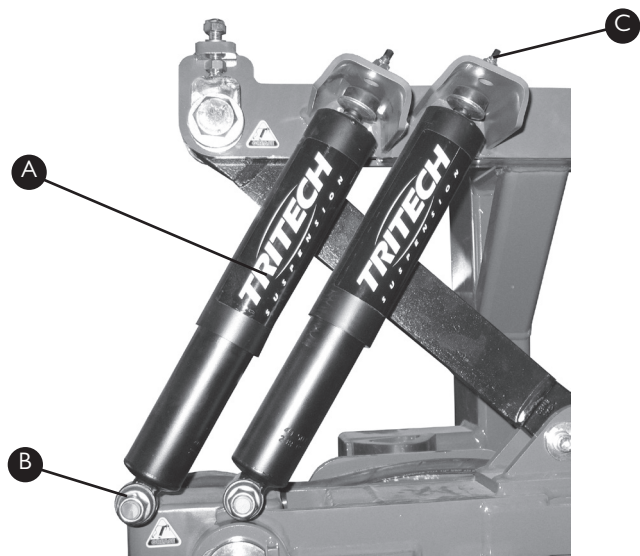
# TRITECH BOOM DELTA LINKS



Item	Part No	Description	Quantity
A	GA4656240	Long Delta Link	2
B	DELTA-LINKSA	Adjustable Delta Link	1
C	GA5067855	Short Delta Link	1
D	Pin-I-87	Delta Link Pin	7
E-1	GA5000299	M12 x 25mm	7
E-2	GA5000577	12mm Washer	7
E-3	GA5000575	12mm Spring Washer	7

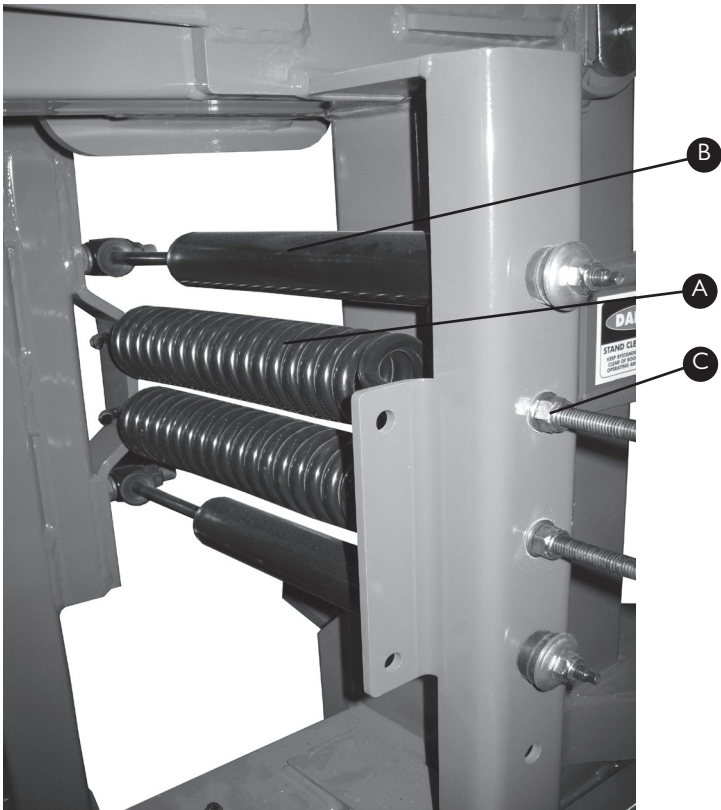
Item	Part No	Description	Quantity
F-1	GA4683145	1" x 6" UNC Bolt	1
F-2	GA5012439	1" UNC Nyloc Nut	1
F-3	GA5017659	1" Washer	4
G-1	GA4656260	Adjuster	2
G-2	GA5012461	M12 Nyloc Nut	2
G-3	GA5000559	M12 Nut	2

TRITECH SPRINGS & DAMPERS



Item	Part No	Description	Quantity
A	GA5015143	Shock Absorber	4
B-1	GA5001029	M16 Nyloc Nut	4

Item	Part No	Description	Quantity
B-2	GA5001043	16mm Washer	4
C	GA5004917	M8 Nyloc Nut	4



Item	Part No	Description	Quantity
A	GA5010793	Yaw Spring	4
B	GA5015899	Yaw Shock Absorber	4
C-1	GA5008545	M12 Eye Bolt	4

Item	Part No	Description	Quantity
C-2	GA5012461	M12 Nyloc Nut	4
C-3	GA5000577	12mm Washer	4



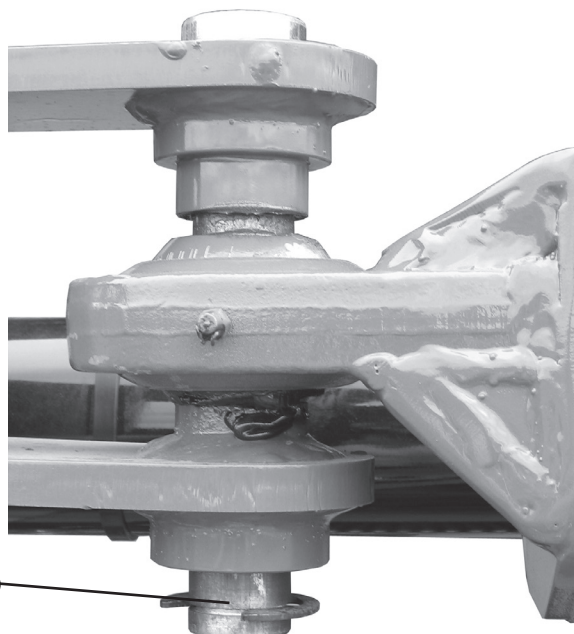
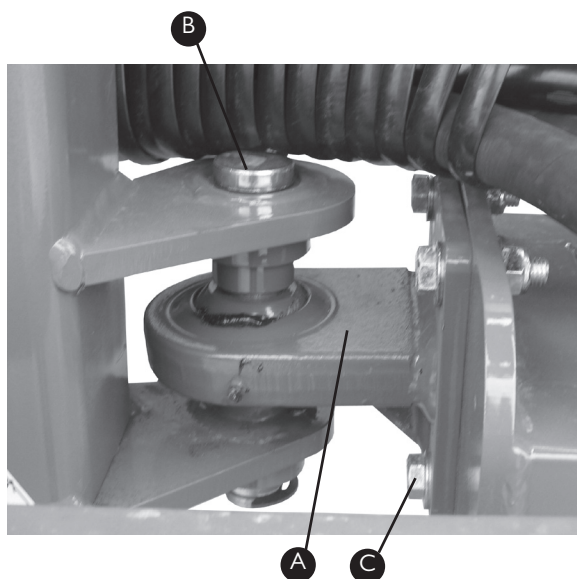
## TRITECH OVERSIZE SIGN AND BRACKETS



Item	Part No	Description	Quantity
A	GA5009613	Oversize Sign	1
B	GA4657125	Sign Bracket	2
C	GA5000311	M12 x 35mm Bolt	4
C-2	GA5012461	M12 Nyloc Nut	4

Item	Part No	Description	Quantity
C-3	GA5000577	12mm Washer	8
D-1	GA5004711	M8 x 25mm Bolt	4
D-2	GA5004917	M8 Nyloc Nut	4
D-3	GA5003643	8mm Washer	8

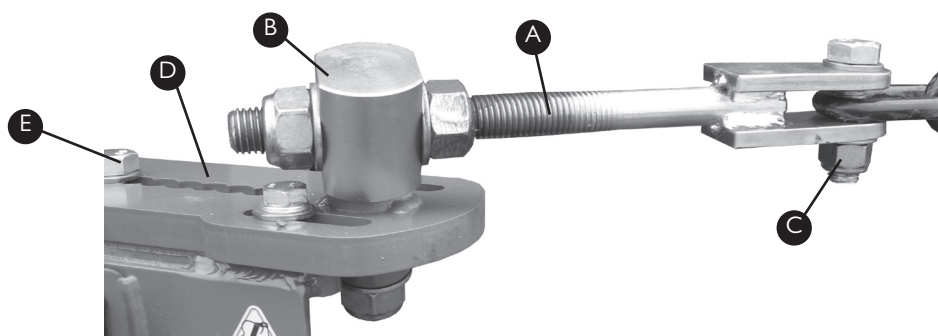
## TRITECH BOOM PIVOT PINS



Item	Part No	Description	Quantity
A	GA4656200	Bolt On Rose End (Right)	1
	GA4656201	Bolt On Rose End (Left)	1
B-1	L003A	Lower Pivot Pin	1
B-2	GA5001223	19mm E-Type Circlip	1
C-1	GA5000327	M12 x 45mm Bolt	4

Item	Part No	Description	Quantity
C-2	GA5012461	M12 Nyloc Nut	4
C-3	GA5000577	12mm Washer	8
D-1	L003A	Upper Pivot Pin	1
D-2	GA5001223	19mm E-Type Clip	1

## TRITECH BOOM CABLE ADJUSTERS

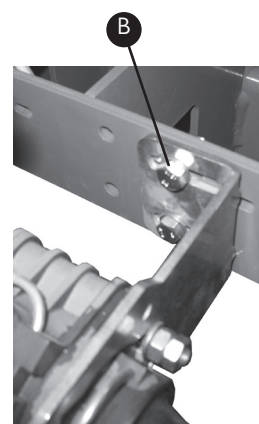
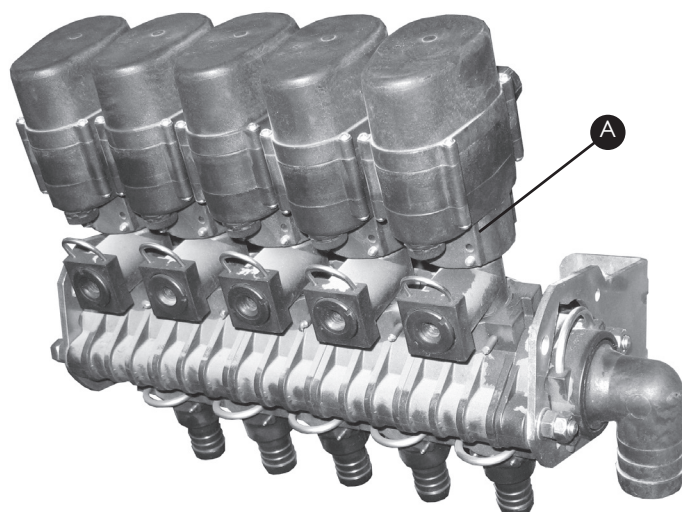


Item	Part No	Description	Quantity
A-1	GA5020320	Threaded Adjuster	1
A-2	GA5048125	M20 Nyloc Nut	1
A-3	GA5001709	M20 Nut	1
A-4	GA5001741	20mm Washer	2
B-1	L006A	Adjuster Pivot	1
B-2	GA5048125	M20 Nyloc Nut	1
B-3	GA5001741	20mm Washer	1
C-1	GA5000931	M16 x 50mm Bolt	1

Item	Part No	Description	Quantity
C-2	GA5001029	M16 Nyloc Nut	1
C-3	GA5001043	16mm Washer	2
D	GA4656250	Adjuster Plate (Right)	1
	GA4656255	Adjuster Plate (Left)	1
E-1	GA5000329	M12 x 60mm Bolt	3
E-2	GA5012461	M12 Nyloc Nut	3
E-3	GA5000577	12mm Washer	6



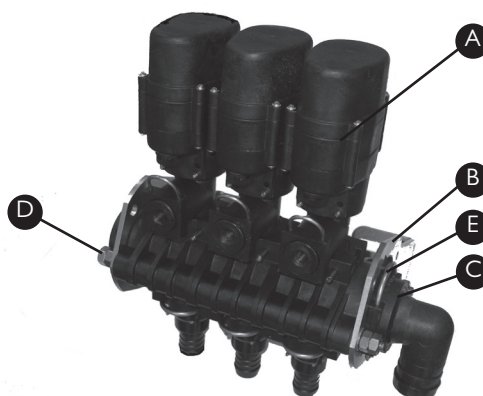
## BOOM VALVES ASSEMBLIES



Item	Part No	Description	Quantity
A	GA5065740	3 Section Boom Valves	1
	GA5065741	4 Section Boom Valves	1
	GA5065704	5 Section Boom Valves	1
	GA5065705	6 Section Boom Valves	1
	GA5065706	7 Section Boom Valves	1
	GA5065710	8 Section Boom Valves	1

Item	Part No	Description	Quantity
B-1	GA5004711	M8 x 25mm Bolt	4
B-2	GA5004917	M8 Nyloc Nut	4
B-3	GA5003643	8mm Washer	8

## BOOM VALVE COMPONENTS

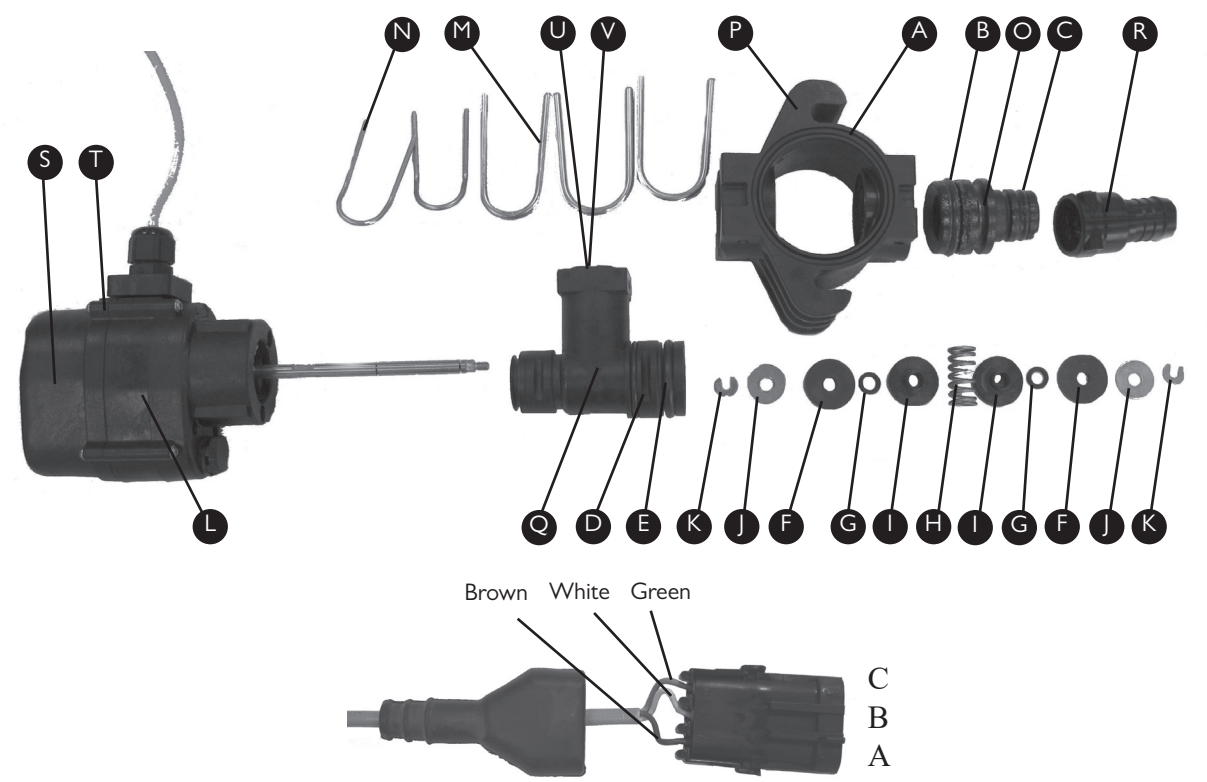


Item	Part No	Description	Quantity
A*	GA5065510	Section Valve with Pressure Relief	1
	GA5065515	Section Valve	1
B	GA5065800	Boom Valve Bracket	2
C	GA5065810	Boom Valve End Cap	2
D	GA5065805	3 Section Connecting Rod	2

Item	Part No	Description	Quantity
	GA4562055	4 Section Connecting Rod	2
	GA4562125	5 Section Connecting Rod	2
	GA4562050	6 Section Connecting Rod	2
	GA4562045	7 Section Connecting Rod	2
	GA4562040	8 Section Connecting Rod	2
E	GA5065690	Safety Pin AS40	2

\*Standard Section Valves Shown

# BOOM SECTION VALVE COMPONENTS

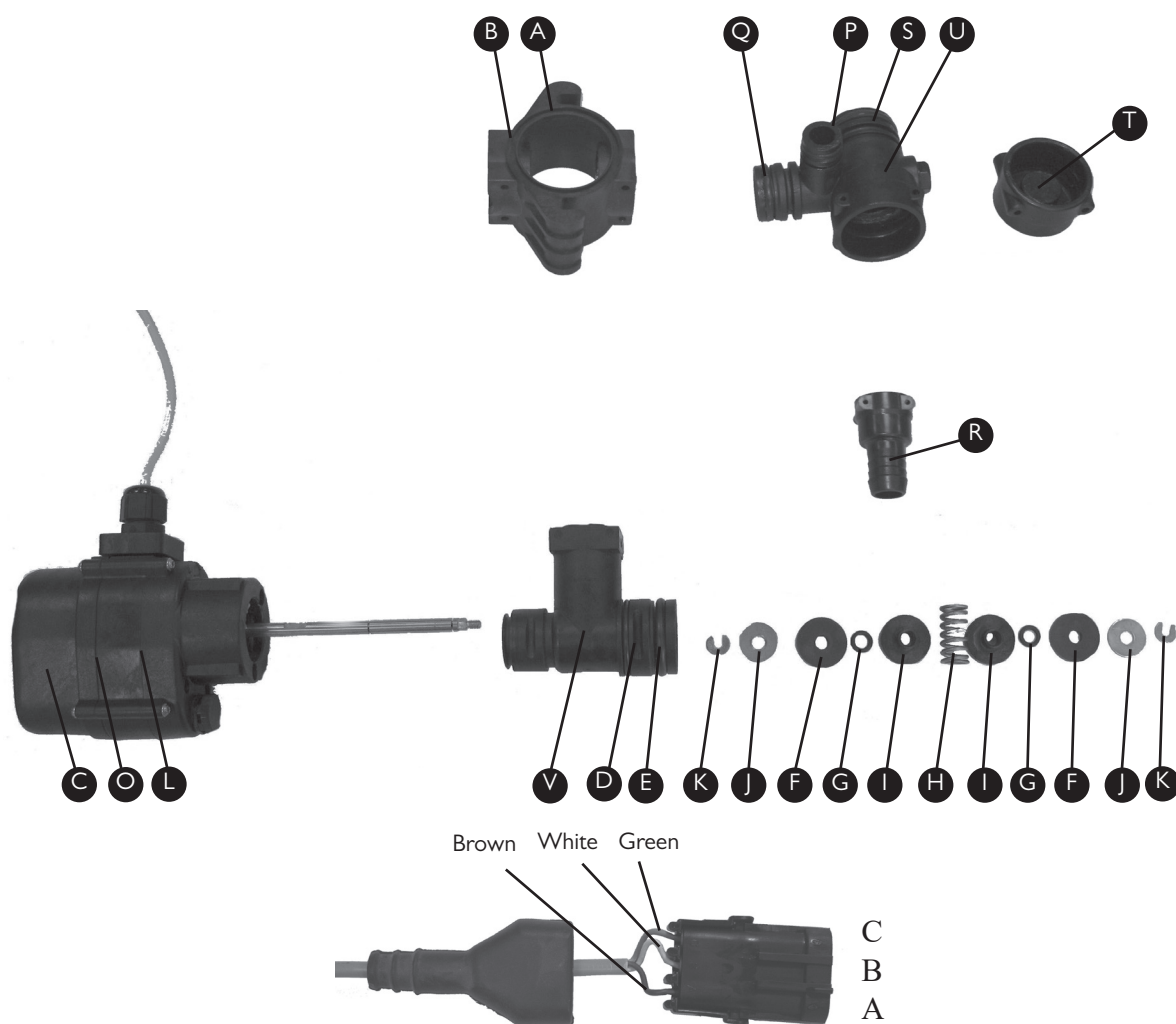


Assembly Part No GA5065515

Item	Part No	Description	Quantity
A	GA5012507	O-ring	1
B	GA5065830	O-ring 25 x 4 fpm 75	1
C	GA5065820	O-ring 18 x 2.5 fpm 75	1
D	GA5053510	O-ring 25 x 2.5 fpm 75	1
E	GA5065830	O-ring 25 x 4 fpm 75	1
F	GA5054645	Disc Seal fpm 90	2
G	GA5053515	O-ring 4.34 x 3.53 fpm 75	2
H	GA2000265	Spring	1
I	GA2000264	Disc	2
J	GA5054640	Washer	2
K	GA5054650	C-Clip	2

Item	Part No	Description	Quantity
L	GA2000267	Valve Body	1
M	GA5065690	Safety Pin AS40	3
N	GA5065695	Safety Pin AS24	2
O	GA5065605	Hose Tail	1
P	GA5065825	Manifold	1
Q		Tee	1
R	GA5065640	Female Hose Tail	1
S	81350	Valve Cap	1
T	81300	Valve Cap O-ring	1
U	GA2000269	Plug	1
V	GA5065840	O-ring 18 x 2.5 fpm 75	1

## BOOM SECTION VALVE WITH PRESSURE RELIEF



Assembly Part No GA5065515			
Item	Part No	Description	Quantity
A	GA5012507	O-ring	1
B	GA5065825	Manifold	1
C	81350	Valve Cap	1
D	GA5053510	O-ring 25 x 2.5 fpm 75	1
E	GA5065830	O-ring 25 x 4 fpm 75	1
F	GA5054645	Disc Seal fpm 90	2
G	GA5053515	O-ring 4.34 x 3.53 fpm 75	2
H	GA2000265	Spring	1
I	GA2000264	Disc	2
J	GA5054640	Washer	2
K	GA5054650	C-Clip	2
L	GA2000267	Valve Body	1

Item	Part No	Description	Quantity
M	GA5065690	Safety Pin AS40	3
N	GA5065695	Safety Pin AS24	2
O	GA5053520	Cap O-ring	1
P	GA5065820	O-ring 18 x 2.5 fpm 75	1
Q	GA5065830	O-ring 25 x 4 fpm 75	1
R	GA5065640	Female Hose Tail	1
S	GA5065815	O-ring 35 x 4 fpm 75	1
T		Cap	1
U		Fitting	1
V		Tee	1
W	GA2000268	Plug	1
X	37621	O-ring 18 x 2.5 fpm 75	1



# CHAPTER 14

## BOOM WINGS

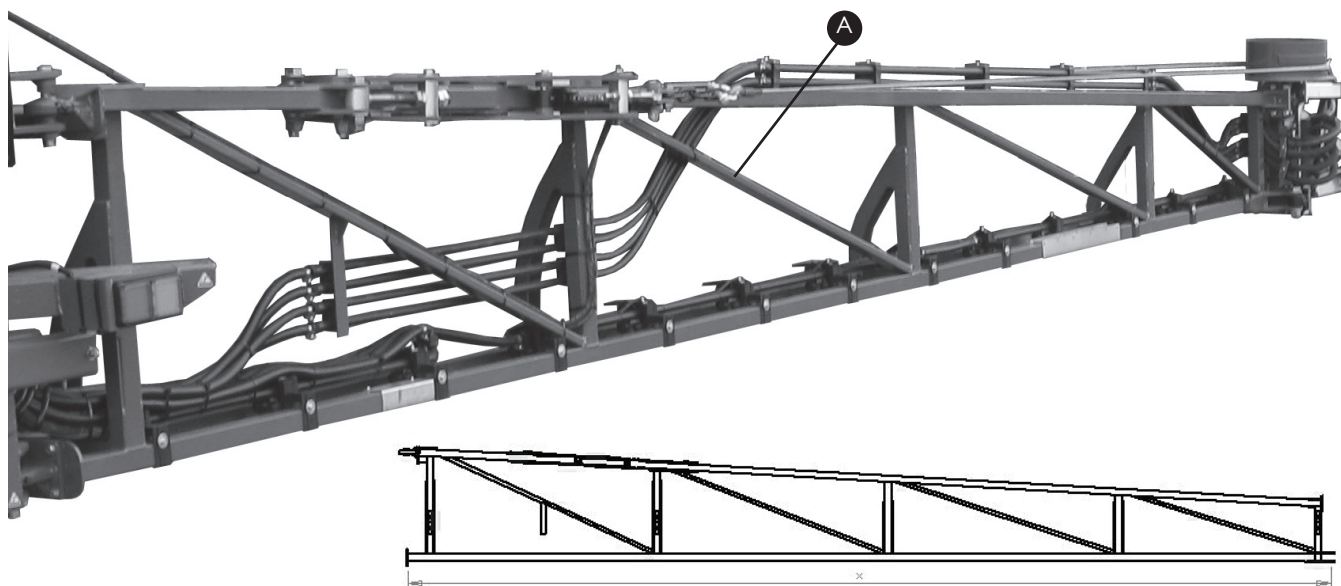


Tritech Inner Boom Sections . . . . .	14-2
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Remote Fence Line Nozzles . . . . .	14-22
Foam Marker Components . . . . .	14-23

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## TRITECH INNER BOOM SECTIONS



Item	Part No	Description	Quantity
A	GA4655670	24m Inner Boom	
		(RH-4975mm long*)	1
	GA4655675	24m Inner Boom	
		(LH-4975mm long*)	1
	GA4655680	24m Inner Boom	
		(RH-4725mm long*)	1
	GA4655685	24m Inner Boom	
		(LH-4725mm long*)	1
	GA4655660	24m Inner Boom	
		(RH-5475mm long*)	1
	GA4655665	24m Inner Boom	
		(LH-5475mm long*)	1
	GA4655650	24m Inner Boom	
		(RH-5240mm long*)	1
	GA4655655	24m Inner Boom	
		(LH-5240mm long*)	1

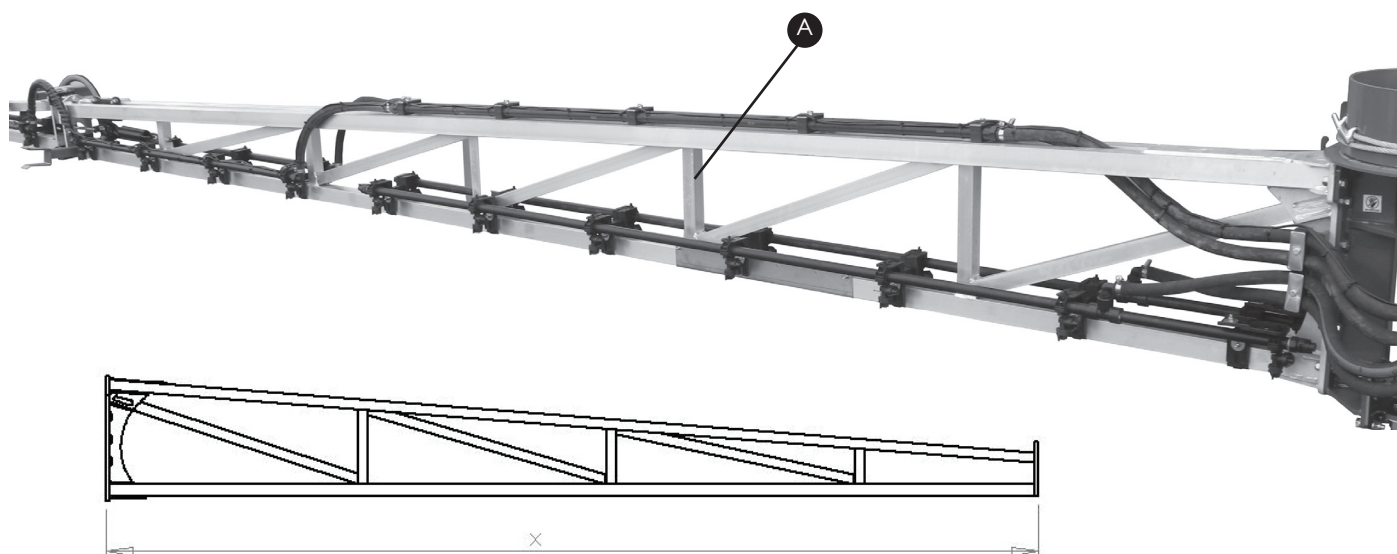
Item	Part No	Description	Quantity
	GA4655720	28-30m Inner Boom	
		(RH-6485mm long*)	1
	GA4655725	28-30m Inner Boom	
		(LH-6485mm long*)	1
	GA4655730	28-30m Inner Boom	
		(RH-6235mm long*)	1
	GA4655735	28-30m Inner Boom	
		(LH-6235mm long*)	1
	GA4655700	28m-30m Inner Boom	
		(RH-6750mm long*)	1
	GA4655705	28-30m Inner Boom	
		(LH-6750mm long*)	1
	GA4655710	28-30m Inner Boom	
		(RH-6985mm long*)	1
	GA4655715	28-30m Inner Boom	
		(LH-6985mm long*)	1

\* Length of boom taken from edge of bottom inside flange to centre of bottom pin at cable drum as shown in drawing

Note: Bi-Fold or Non Bi-Fold type needs to be specified when ordering

Also please note that since Mid 2009 that 28m Inner Booms have been fitted to 24m Booms, as standard, to avoid folding problems unless otherwise specified.

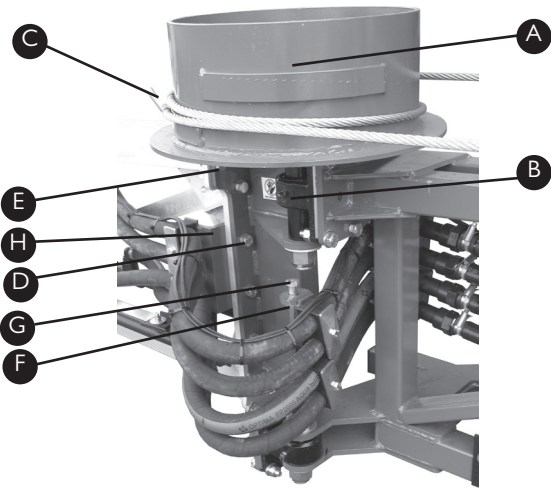
## TRITECH OUTER BOOM SECTIONS



Item	Part No	Description	Quantity
A	GA4656051	24m Outer Boom Section	
		(3749mm long*)	1
	GA4656054	24m Outer Boom Section	
		for 28m Boom Inners	
		(2239mm long*)	1
	GA4656061	28m Outer Boom Section	
		(4264mm long*)	1
	GA4656066	30m Outer Boom Section	
		(5265mm long*)	1

\* Length of boom taken from inside flange to outside flange as shown in drawing

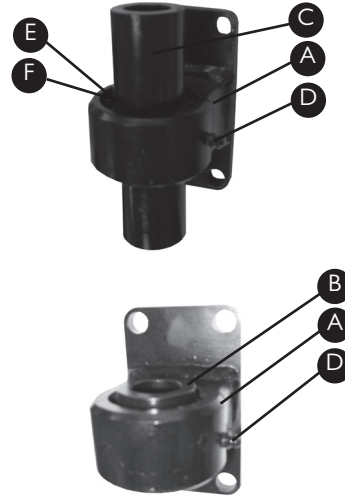
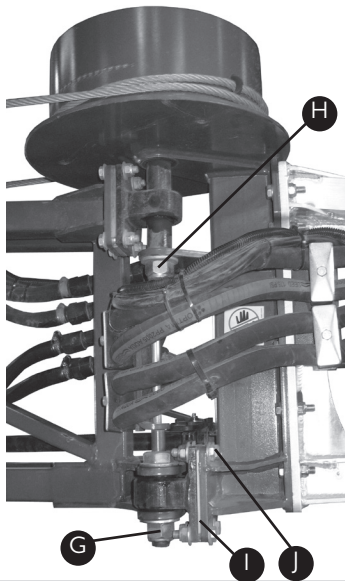
DRUM HINGE



Item	Part No	Description	Quantity
A	GA4656180	Right Cable Drum	1
	GA4656185	Left Cable Drum	1
B	GA4932380	Pivot Assembly	1
C-1	FG0010	M10 x 30 x 40 U Bolt	3
C-2	GA5000141	M10 Nyloc Nut	6
C-3	F70266A	Washer Plate	3
D-1	GA5000319	M12 x 40mm Bolt	10
D-2	GA5012461	M12 Nyloc Nut	10

Item	Part No	Description	Quantity
D-3	GA5000577	12mm Washer	20
E-1	GA5011287	M16 x 40mm Bolt	2
E-2	GA5001029	M16 Nyloc Nut	2
E-3	GA5001043	16mm Washer	4
F	GA4656225	Pivot Hose Holder	1
G-1	GA5000301	M12 x 250mm Bolt	1
G-2	24MK3CS01 IMACH	Spacer	1
H	GA4522725	Hose Holder	1

## TRITECH CABLE DRUM PIVOT ASSEMBLY



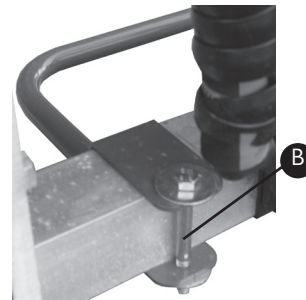
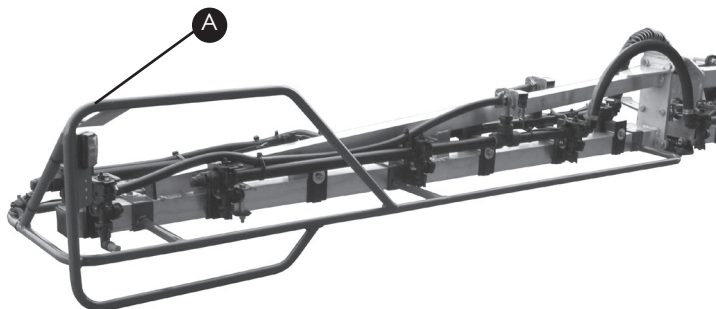
Assembly Part No: GA4932380

Item	Part No	Description	Quantity
A	GA4656190	Hinge Bearing Mount	2
B	DB-ADJ-02	Short Bush	2
C	DB-ADJ-13	Long Bush	2
D	GA5009639	1/4" Grease Nipple	2
E	GA5015659	Spherical Bush	2
F	GA5010573	Internal Circlip (60mm)	2
G-1	MACH0110	1" x 4 1/2" UNF Bolt	1
G-2	GA5012445	1" UNF Nyloc Nut	1

Item	Part No	Description	Quantity
G-3	GA5017659	1" Washer	2
H-1	GA5006151	1" x 8" UNF Bolt	1
H-2	GA5012445	1" UNF Nyloc Nut	1
H-3	GA5017659	1" Washer	1
I	DB-ADJ-16LAS	1mm Shim	10
J-1	GA5000327	M12 x 45mm Bolt	8
J-2	GA5012461	M12 Nyloc Nut	8
J-3	GA5000577	12mm Washer	16

Note: Upper and Lower pivot kits can be purchased separate to each other. The Part No for the upper pivot kit is GA4932342 and GA4932343 for the Lower Pivot Kit.

## BOOM END PROTECTORS

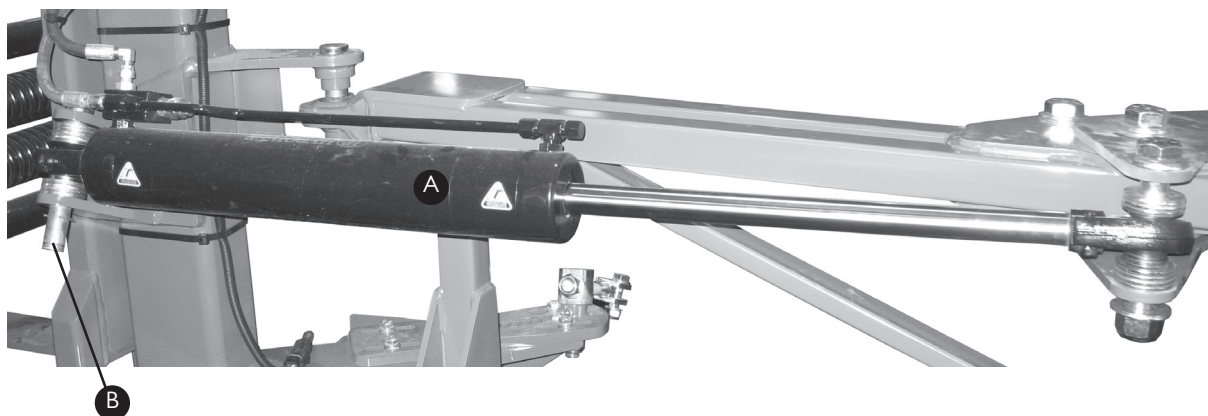


Item	Part No	Description	Quantity
A	GA4901385	Pair of Boom End Protector Bars (LH + RH)	1
	GA4656314	Right Boom End Protector Bar	1
	GA4656315	Left Boom End Protector Bar	1

Item	Part No	Description	Quantity
B-1	GA5052600	M8 x 75mm Bolt (S/S 304)	4
B-2	GA5004917	M8 Nyloc Nut	4
B-3	GA5002597	3/8" x 1 1/4" Washer	8

## BOOM FOLD CYLINDERS

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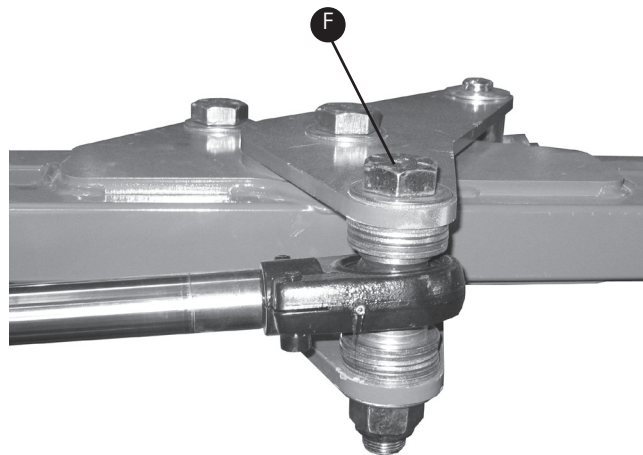
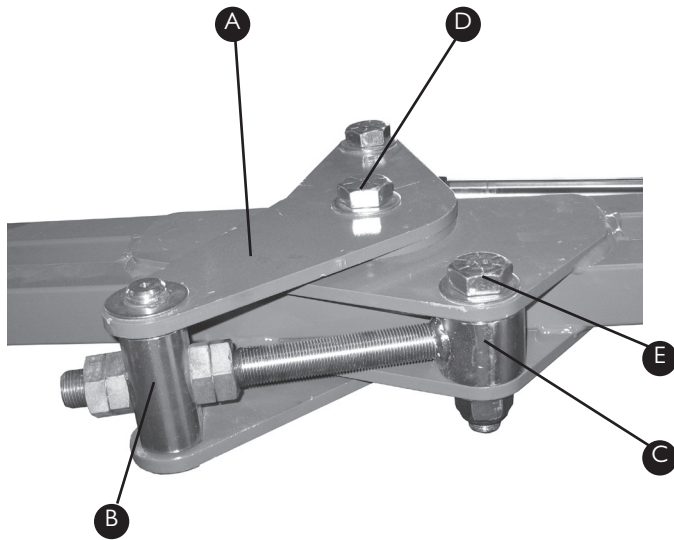
Item	Part No	Description	Quantity
A	GA5018538	Right Fold Cylinder	1
	GA5018542	Left Fold Cylinder	1
B-1	GA4572200*	Fold Cylinder Pin	1
B-2	GA5001223	E-Clip	1
B-3	GA5017659	1" Washer	7

\* Note: Pin has been updated from June 2009, replacing Part No L002A.

Replacement cylinder end bushes also available, small bush Part No GA5021925 ,large bush Part No GA5021930.



## BOOM FOLD CYLINDER CONNECTION

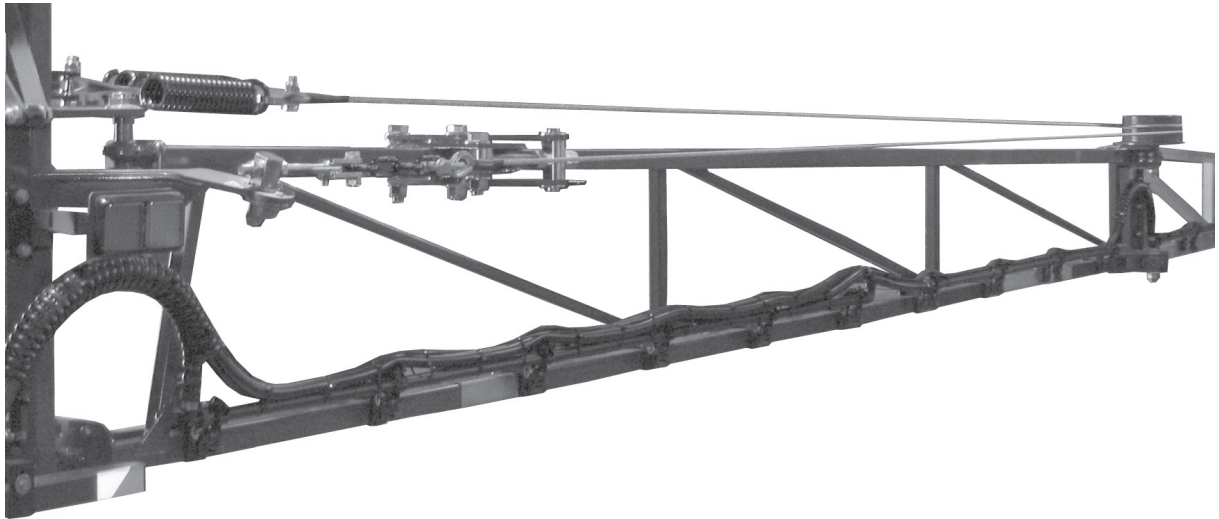


Item	Part No	Description	Quantity
A	24mk4DB005	Pivot Plate	2
B-1	24mk4DB006MACH	Adjuster Pivot	1
B-2	GA5008519	Circlip	2
B-3	GA5017659	1" Washer	2
C-1	FAB0201	Threaded Adjuster	1
C-2	GA5010991	1" Lock Nut 12TPI	4
D-1	GA5006043	1" x 6" UNF Bolt	1
D-2	GA5012445	1" Nyloc Nut	1

Item	Part No	Description	Quantity
D-3	GA5017659	1" Washer	2
E-1	GA5006039	1" x 4 1/2" Bolt	1
E-2	GA5012445	1" Nyloc Nut	1
E-3	GA5017659	1" Washer	2
F-1	GA5006043	1" x 6" UNF Bolt	1
F-2	GA5012445	1" Nyloc Nut	1
F-3	GA5017659	1" Washer	13

## DELTA INNER BOOM SECTIONS

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

## DELTA OUTER BOOM SECTIONS

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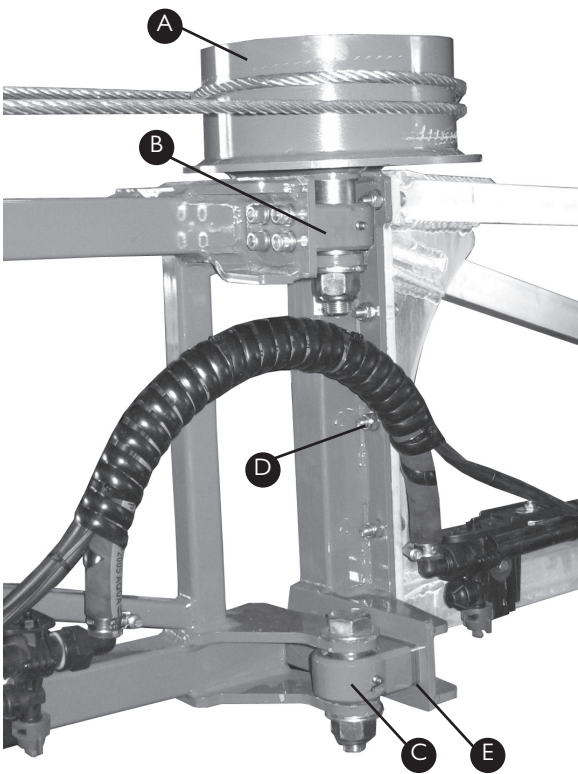


Item	Part No	Description	Quantity
A	GA4655925	18m Outer Boom (steel)	1
	GA4655930	21m Outer Boom (steel)	1
	GA4655935	24m Outer Boom	
		(Aluminium)	1
	GA4656055	24m Outer Boom with	
		Breakaway (Aluminium)	1

DELTA DRUM HINGE

Item	Part No	Description	Quantity
A	GA4657740	Right Cable Drum	1
	GA4657745	Left Cable Drum	1
B	GA4932346	Upper Pivot Assembly	2
C	GA4932347	Lower Pivot Assembly	2
D-1	GA5015011	M10 x 35mm Bolt	20
D-2	GA5000141	M10 Nyloc Nut	20
D-3	GA5000115	10mm Washer	40
E	F70771A	Cable Pivot Shim	*

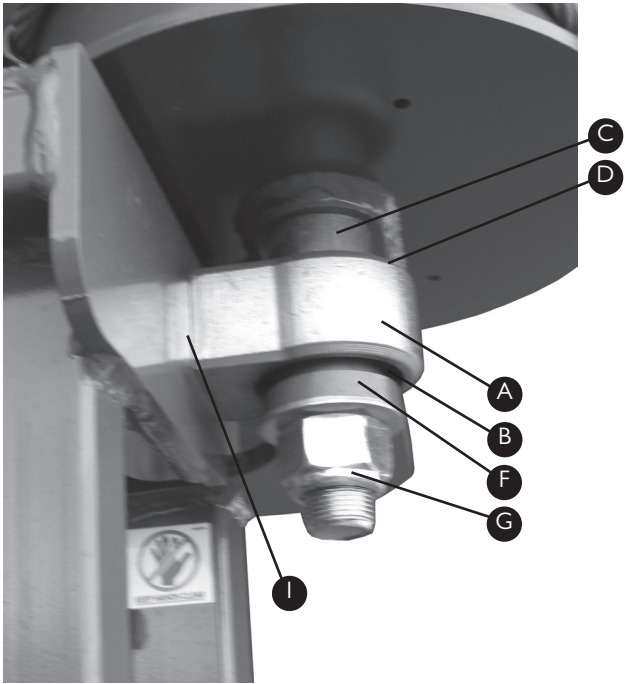
\*Quantity Varies



UPPER BEARING PIVOT ASSEMBLY

Assembly Part No GA4932346			
Item	Part No	Description	Quantity
A	MACH0123	Bearing Housing	1
B	GA5015659	Spherical Bush	2
C	MACH0119	Pivot Bush (long)	1
D	GA5010573	Internal Circlip	1
E	GA5012203	1/4" Grease Nipple #	1
F	DB-ADJ-02	Pivot Bush (short)	1
G-1	GA5006041	1" x 5 1/2" UNF Bolt	1
G-2	GA5012445	1" UNF Nyloc Nut	1
G-3	GA5017659	1" Washer	4
H-1	GA5020115	M10 x 30mm Cap Screw #	4
H-2	GA5000115	10mm Washer #	4
H-3	GA5000137	10mm Spring Washer #	4

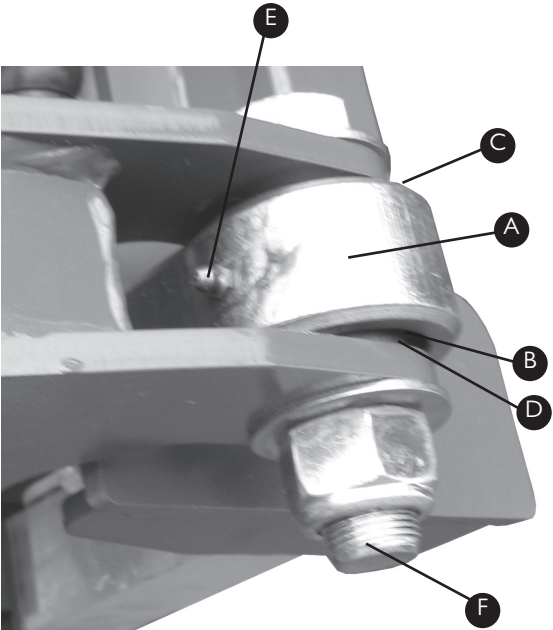
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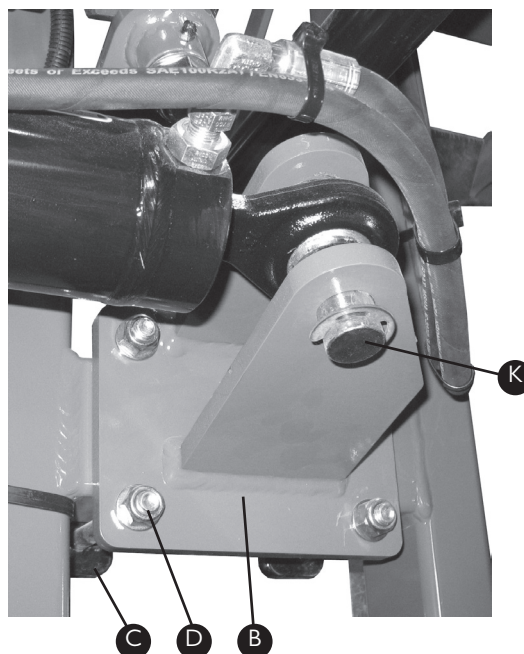
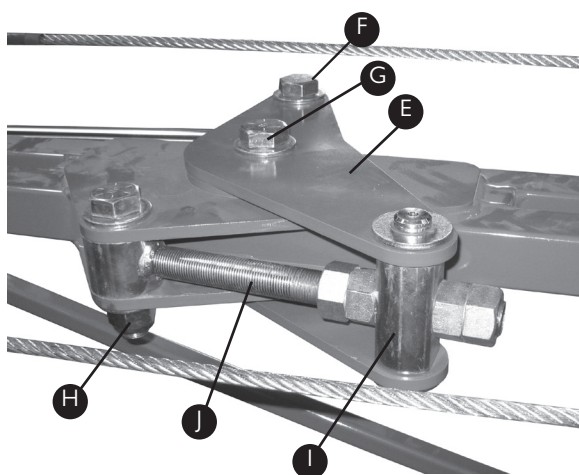
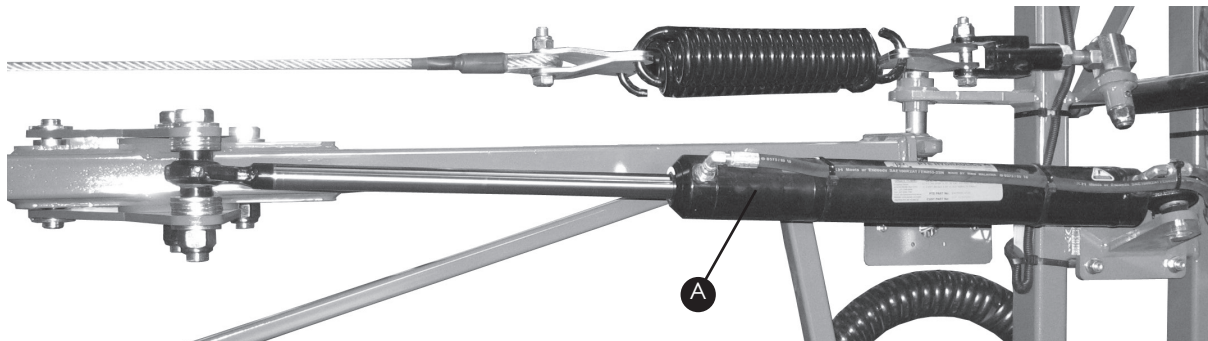
# LOWER BEARING PIVOT ASSEMBLY

Assembly Part No GA4932347			
Item	Part No	Description	Quantity
A	MACH0123	Bearing Housing	1
B	GA5015659	Spherical Bush	2
C	GA5010573	Internal Circlip	1
D	DB-ADJ-02	Pivot Bush	2
E	GA5012203	1/4" Grease Nipple	1
F-1	GA5006039	1" x 4 1/2" UNF Bolt	1
F-2	GA5012445	1" UNF Nyloc Nut	1
F-3	GA5017659	1" Washer	4
G-1	GA5020115	M10 x 30mm Cap Screw #	4
G-2	GA5000115	10mm Washer #	4
G-3	GA5000137	10mm Spring Washer #	4

# Not Shown



## DELTA BOOM FOLD CYLINDERS



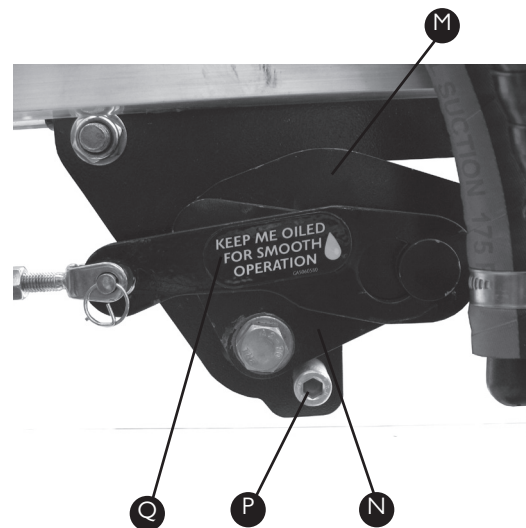
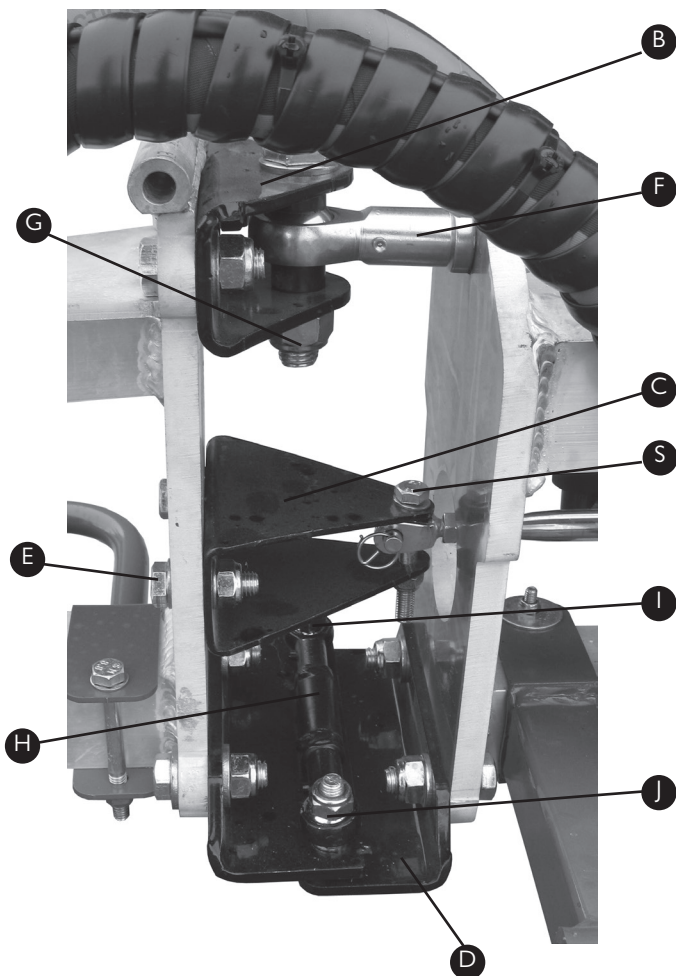
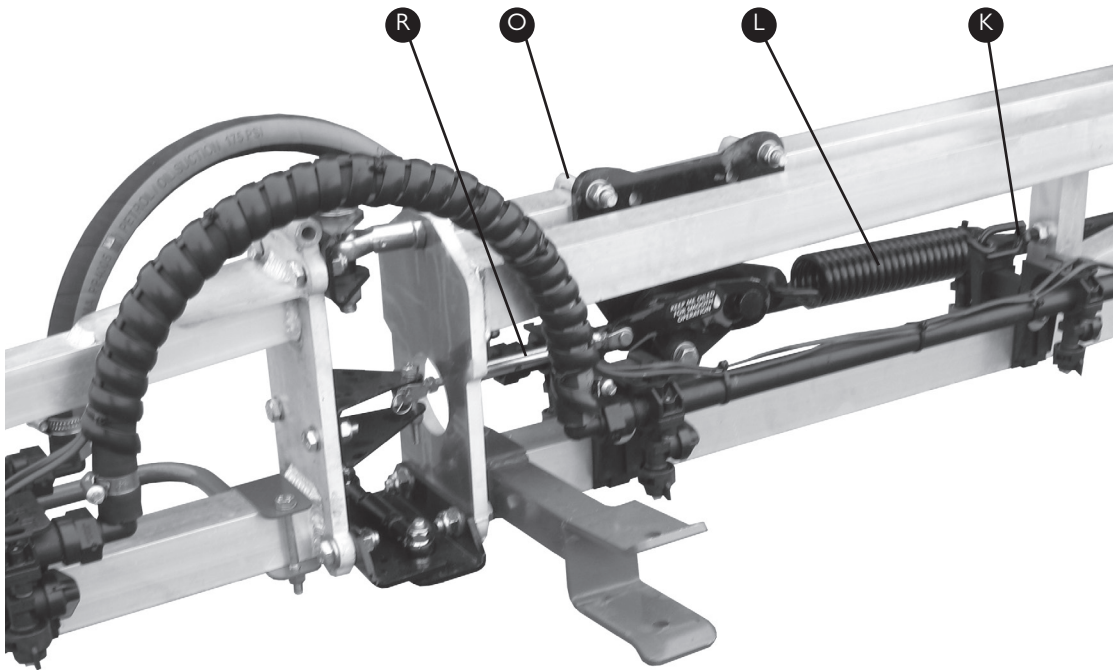
Item	Part No	Description	Quantity
A	GA5018555	Right Fold Cylinder	1
	GA5018557	Left Fold Cylinder	1
B	GA4656505	Right Cylinder Centre Clevis I	
	GA4656510	Left Cylinder Centre Clevis I	1
C	F70107A	Mounting Bolt Plate	4
D-1	GA5000265	M12 x 120mm Bolt	8
D-2	GA5012461	M12 Nyloc Nut	8
D-3	GA5000577	12mm Washer	16
E	24mk4DB005LAS	Pivot Plate	4
F-1	GA5006043	1" x 6" UNF Bolt	2
F-2	GA5012445	1" UNF Nyloc Nut	2
F-3	GA5017659	1" Washer	24
G-1	GA5006043	1" x 6" UNF Bolt	2

Item	Part No	Description	Quantity
G-2	GA5012445	1" UNF Nyloc Nut	2
G-3	GA5017659	1" Washer	4
H-1	GA5006039	1" x 4 1/2" UNF Bolt	2
H-2	GA5012445	1" UNF Nyloc Nut	2
H-3	GA5017659	1" Washer	4
I-1	24mk4DB006MACH	Adjuster Pivot	2
I-2	GA5017659	1" Washer	4
I-3	GA5008519	External Circlip	4
J-1	FAB0201	Threaded Adjuster	2
J-2	GA5010991	1" Lock Nut (12TPI)	8
K-1	L001A	Inner Cylinder Pivot	2
K-2	GA5001223	19mm E-Clip	2

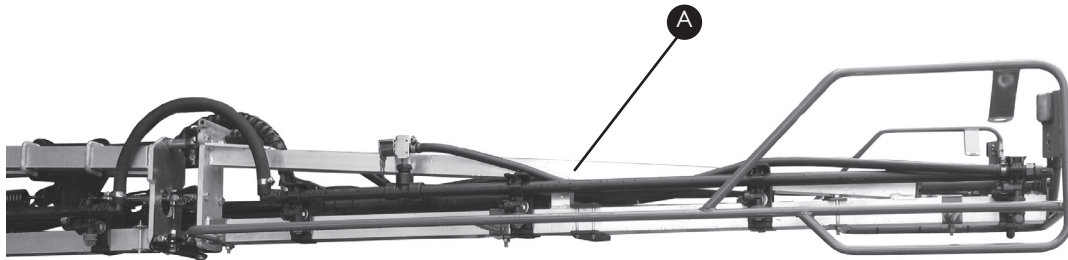


# BREAK AWAY MECHANISM

Suits both Tritech & Delta Booms



## BREAK AWAY MECHANISM

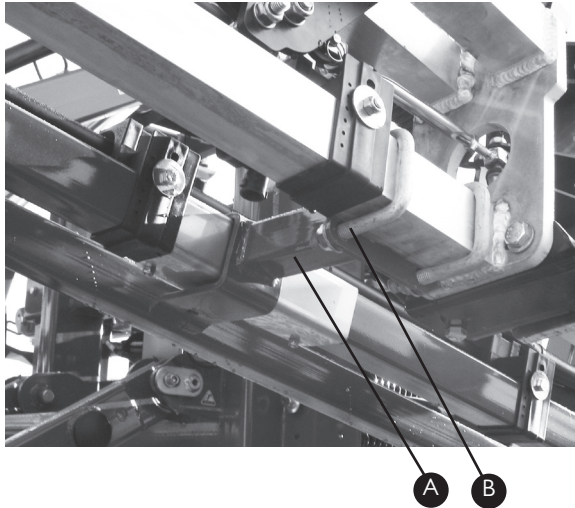


Assembly Part No GA4902060

Item	Part No	Description	Quantity
A	GA4656120	Aluminium Breakaway	1
B	GA4502095	Top Breakaway Bracket	1
C	GA4502100	Middle Breakaway Bracket	1
D	GA4502105	Bottom Breakaway Bracket	2
E-1	GA5011231	M12 x 35mm Bolt	8
E-2	GA5012461	M12 Nyloc Nut	8
E-3	GA5000577	12mm Washer	16
F-1	GA5014469	16mm Female Rod End	1
F-2	GA5011287	M16 x 40mm Bolt	1
F-3	GA5001043	16mm Washer	1
F-4	GA5001051	16mm Spring Washer	1
F-5	GA4522485	Rod End Locking Tab	1
G-1	GA5000949	M16 x 70mm Bolt	1
G-2	GA5001029	M16 Nyloc Nut	1
G-3	GA5001043	16mm Washer	2
G-4	GA4552070	Crush Tube	2
H	GA4902060-3	Rod End Link	1
I-1	GA5011183	M10 x 45mm Cap Screw	1
I-2	GA5000141	M10 Nyloc Nut	1
I-3	GA5000117	10mm Washer	2
I-4	GA4552080	Crush Tube	2
J-1	GA5011183	M10 x 45mm Cap Screw	1

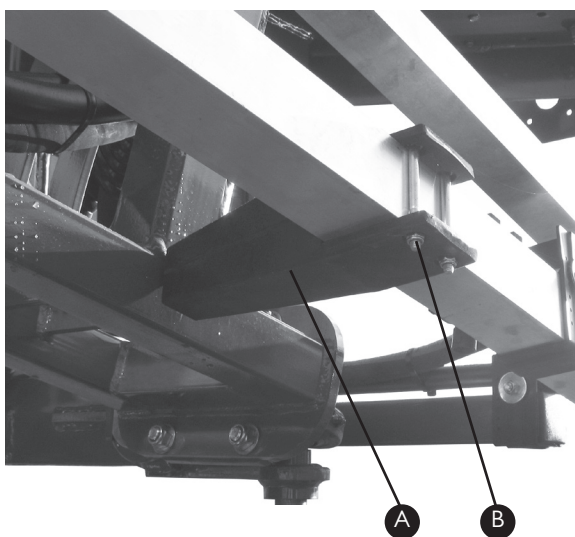
Item	Part No	Description	Quantity
J-2	GA5000141	M10 Nyloc Nut	1
J-3	GA5000117	10mm Washer	2
J-4	GA4552075	Crush Tube	1
K-1	GA5008545	M12 Eye Bolt	1
K-2	GA5012461	M12 Nyloc Nut	1
K-3	GA5000559	M12 Nut	1
K-4	GA5000577	12mm Washer	2
L	GA5016605	Tension Spring	1
M	GA4532565	Breakaway Spring Plate	1
N	GA4656115	Locking Mechanism	1
O-1	GA5011251	M12 x 52 x 80 U-Bolt	2
O-2	GA5012461	M12 Nyloc Nut	4
O-3	GA5000577	12mm Washer	4
P-1	GA5011183	M10 x 45mm Cap Screw	1
P-2	GA5000141	M10 Nyloc Nut	1
P-3	GA5000117	10mm Washer	1
P-4	GA4552075	Crush Tube	1
Q	GA4532590	Turnbuckle Plate	1
R	GA5066930	Turnbuckle	1
S-1	GA5011477	M8 x 30mm Bolt	1
S-2	GA5004917	M8 Nyloc Nut	1
S-3	GA5003643	8mm Washer	2

## BOOM FOLD SUPPORT BRACKET



Item	Part No	Description	Quantity
A	GA4656280	Boom Fold Bracket	1
	GA4656284	Delta Boom Bracket	1
B-1	GA5011251	M12x52mmx80mm U Bolt	2
B-2	GA5012461	M12 Nyloc Nut	4
B-3	GA5000577	12mm Washer	4

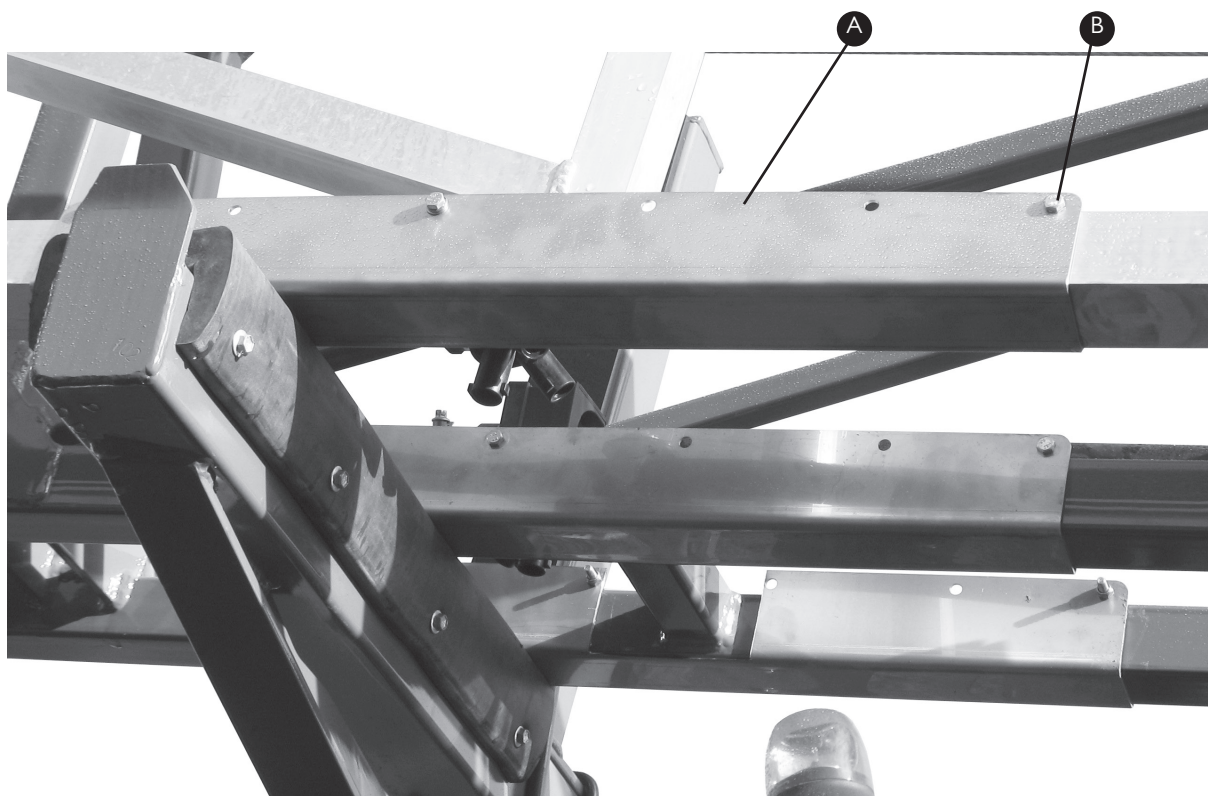
## BOOM BUMP STOP



Item	Part No	Description	Quantity
A	GA5006225	Boom Bump Stop	1
B-1	GA5004103	M6 x 70mm Bolt	2*
B-2	GA5048115	M6 Nyloc Nut	2*
B-3	GA5004437	6mm Washer	4*
C*	GA4522995	Bump Stop Extension	1

\* Not shown in photo, only used on delta booms when these are fitted extra nuts and bolt required

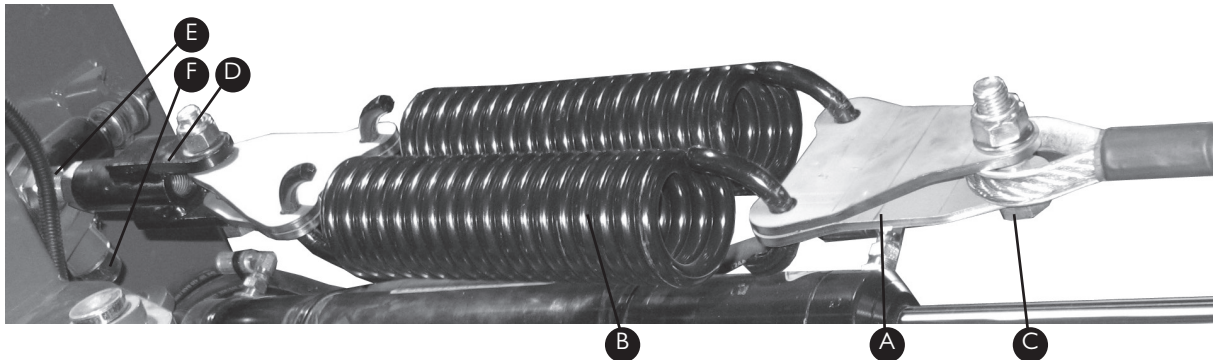
## BOOM PROTECTORS



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



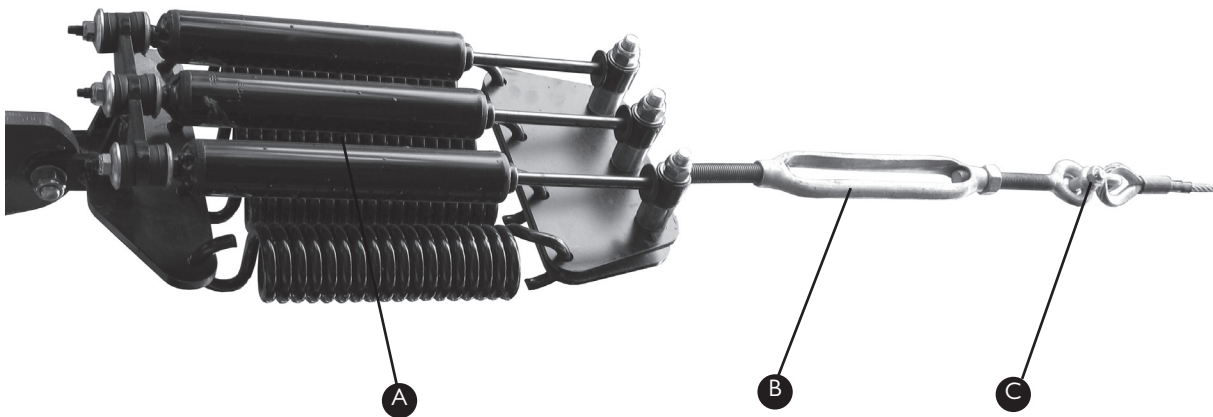
## DELTA BOOM CABLE TENSIONER



Item	Part No	Description	Quantity
A	GA4522755	Cable Spring Plate	4
B	GA5010793	Cable Spring	2
C-1	GA5000955	M16 x 75mm Bolt	2
C-2	GA5001029	M16 Nyloc Nut	2
C-3	GA5001009	16mm Washer	4
D	GA4656265	Screw on Clevis	1

Item	Part No	Description	Quantity
E-1	MACH0137	M20 Cable Bolt	1
E-2	GA5048125	M20 Nut	2
E-3	GA5001739	20mm Washer	2
F-1	L006A	Pivot Housing	1
F-2	GA5012467	M20 Nyloc Nut	1
F-3	GA5001739	20mm Washer	2

## TRITECH BOOM CABLE TENSIONER



Item	Part No	Description	Quantity
A#	GA4903057	24m Boom Cable Springs	1
	GA4903067	28-30m Boom Cable Springs	1
	GA4903071	36m Boom Cable Springs	1
B	GA5017061	Turnbuckle	1
C	GA5000669	Bow Shackle	1
D	GA5065020	Chain*	4 links

# Select for relevant boom size

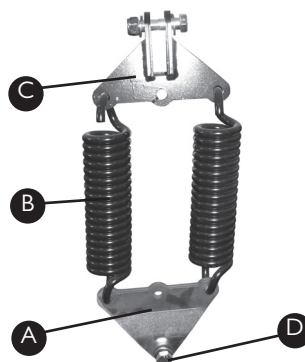
\* Not shown in photos

## BOOM CABLE SPRINGS

### 24m Boom Cable Springs

Assembly Part No: GA4903057

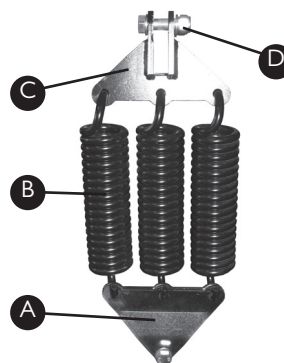
Item	Part No	Description	Quantity
A	F70057A	3 Spring Mounting Plate	2
B	GA5010793	Spring	2
C	GA4656230	Cable Mounting Plate	1
D-1	GA5000941	M16 x 60mm Bolt	2
D-2	GA5001029	M16 Nyloc Nut	2
D-3	GA5001043	16mm Washer	4



### 28-30m Boom Cable Springs

Assembly Part No: GA4903067

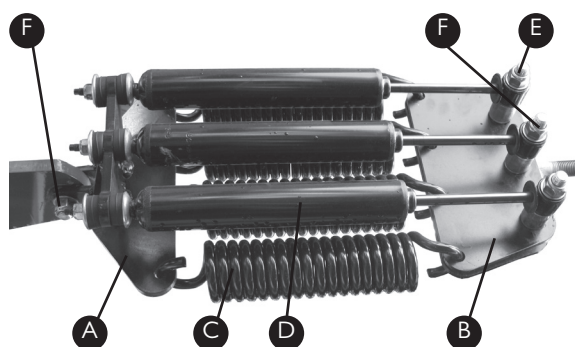
Item	Part No	Description	Quantity
A	F70057A	3 Spring Mounting Plate	2
B	GA5010793	Spring	3
C	GA4656230	Cable Mounting Plate	1
D-1	GA5000941	M16 x 60mm Bolt	2
D-2	GA5001029	M16 Nyloc Nut	2
D-3	GA5001043	16mm Washer	4



### 36m Boom Cable Springs

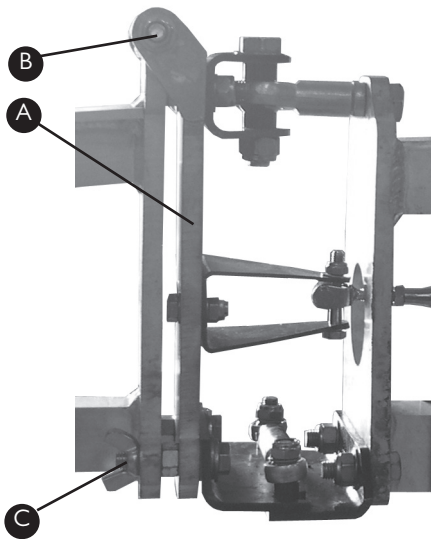
Assembly Part No: GA4903071

Item	Part No	Description	Quantity
A	GA4656235	Cable Mounting Plate	1
B	F70411A	Spring Mounting Plate	2
C	GA5010793	Spring	4
D	GA5015899	Damper	3
E-1	GA5000861	M16 x 130mm HT Bolt	2
E-2	GA5001029	M16 Nyloc Nut	2
E-3	GA5001043	16mm Washer	8
E-4	GA4582335	Long Damper Spacer	2
E-5	GA4582330	Short Damper Spacer	2
F-1	GA5000861	M16 x 130mm HT Bolt	1
F-2	GA5001029	M16 Nyloc Nut	1
F-3	GA5001043	16mm Washer	4
F-4	GA4582335	Long Damper Spacer	2
G-1	GA5000941	M16 x 60mm Bolt	1
G-2	GA5001029	M16 Nyloc Nut	1
G-3	GA5001043	16mm Washer	2



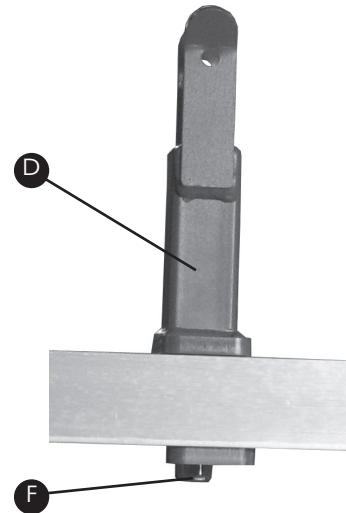


## FLIP OVER ENDS



Item	Part No	Description	Quantity
A	GA4656110	Pivot Plate	1
B-1	GA5066910	M10 x 160mm Bolt	1
B-2	GA5000141	M10 Nyloc Nut	1
B-3	GA5000117	10mm Washer	2
C-1	GA5011239	M12 x 50mm Bolt	2
C-2	GA5000559	M12 Nut	2

\* Not shown in photos

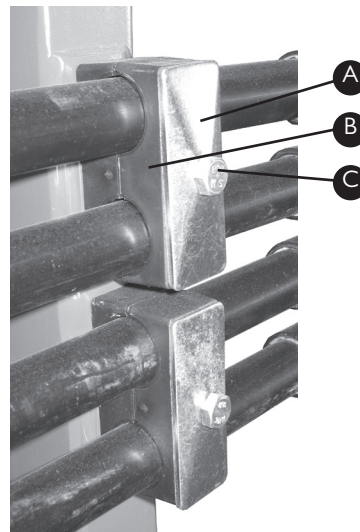


Item	Part No	Description	Quantity
C-3	GA5000591	M12 Wing Nut	2
C-4	GA5000577	12mm Washer	2
D	GA4656310	Boom Saddle	1
E	GA5048380	Pin with Clip*	1
F-1	GA5012461	M12 Nyloc Nut	1
F-2	GA5000577	12mm Washer	1

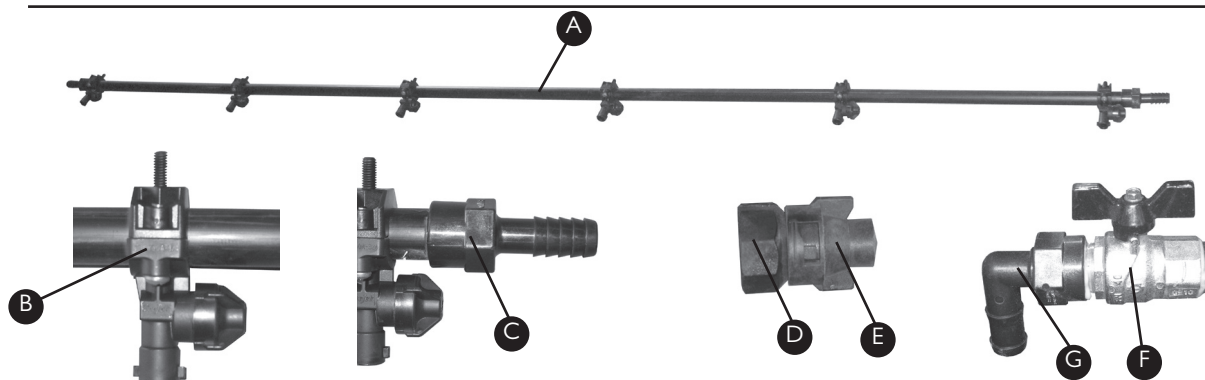
## HOSE RETAINER CLIPS

Item	Part No	Description	Quantity
A	GA5078049	Top plate	1
B	GA5078038	Hose Holder	2
C-1	GA5011489	M8 x 60mm Bolt	1
C-2	GA5003643	8mm Washer	

1



## POLY PLUMBING SECTIONS & TEEJET NOZZLES



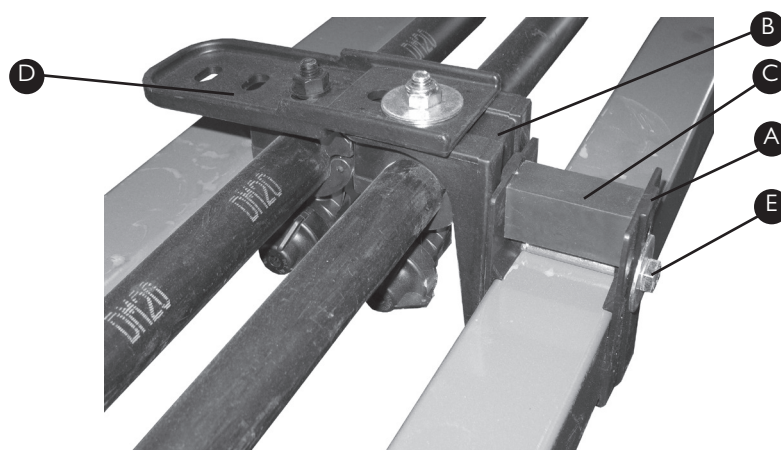
Item	Part No	Description	Quantity
A	GA5018273	4 Hole, 1600mm long	
		Poly Boom Manifold	1
	GA5018275	5 Hole, 2100mm long	
		Poly Boom Manifold	1
	GA5018279	6 Hole, 2600mm long	
		Poly Boom Manifold	1
	GA5018281	7 Hole, 3100mm long	
		Poly Boom Manifold	1

Item	Part No	Description	Quantity
B	GA5077964	Blank Teejet Nozzle Body*	
C	HBFO75	3/4" Hose Barb	2
D	GA5076904	3/4" Adapter	1
E	GA5076594	Shut Off Cap	1
F	GA5052220	3/4" Ball Valve	1
G	GA5077717	3/4" Poly Elbow	1

Note: All poly boom manifolds come with 50cm hole spacing and 3/4" BSP threaded ends, with different configurations available upon request.

\*For full range of Teejet Nozzles and Accessories refer to Teejet Catalogue or [www.teejet.com](http://www.teejet.com)

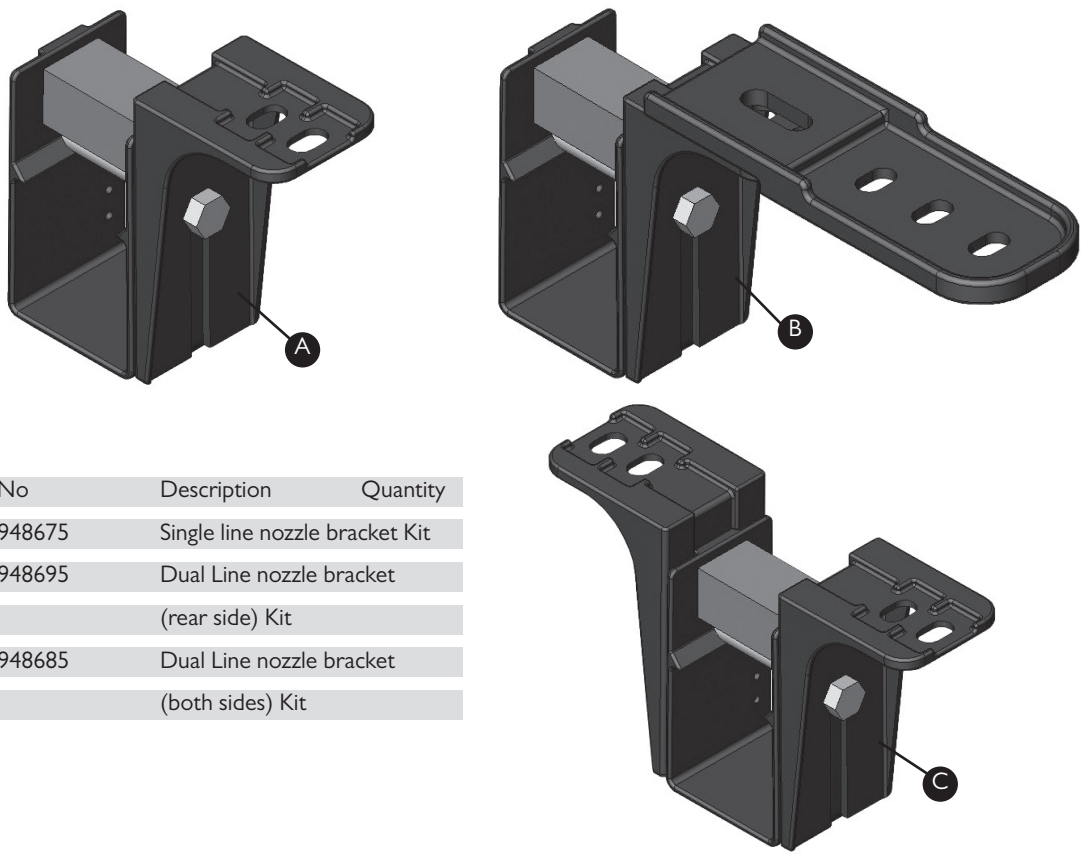
## ADJUSTABLE NOZZLE BRACKETS



Item	Part No	Description	Quantity
A	GA5018259	Main Nozzle Bracket	
		to suit 50mm RHS	1
B	GA5018257	Nozzle Bracket Extension	1
C	GA5066965	Spacer	1
D	GA5018255	Dual Boom Nozzle	
		Extension Bracket	1

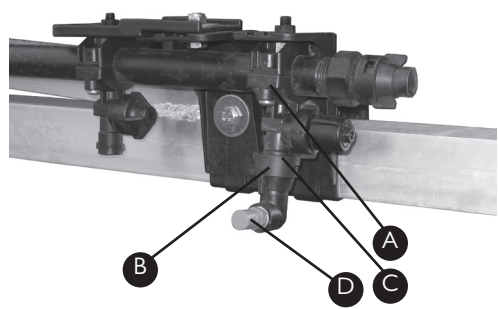
Item	Part No	Description	Quantity
E-1	GA5052600	M8 x 75mm Bolt (S/S 304)	1
E-2	GA5004917	M8 Nyloc Nut	1
E-3	GA5002627	3/8" x 1 1/4" Washer	2

PRE-ASSEMBLED NOZZLE BRACKETS



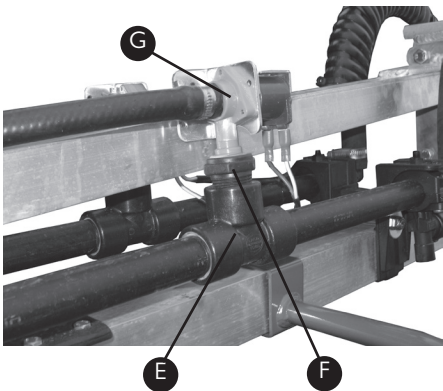
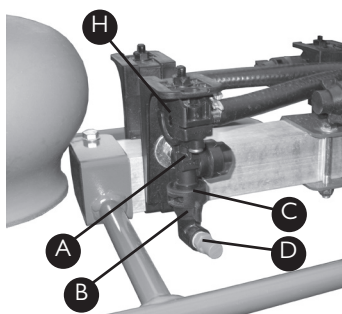
Item	Part No	Description	Quantity
A	GA4948675	Single line nozzle bracket Kit	
B	GA4948695	Dual Line nozzle bracket (rear side) Kit	
C	GA4948685	Dual Line nozzle bracket (both sides) Kit	

MANUAL FENCE LINE NOZZLES



Item	Part No	Description	Quantity
A	GA5077964	Manual Nozzle Body	1
B	GA5077986	90 Degree Nozzle Adapter	1
C	GA5055245	Seal	1
D	GA8100339	Left Fence Line Nozzle	1
	GA8100340	Right Fence Line Nozzle	

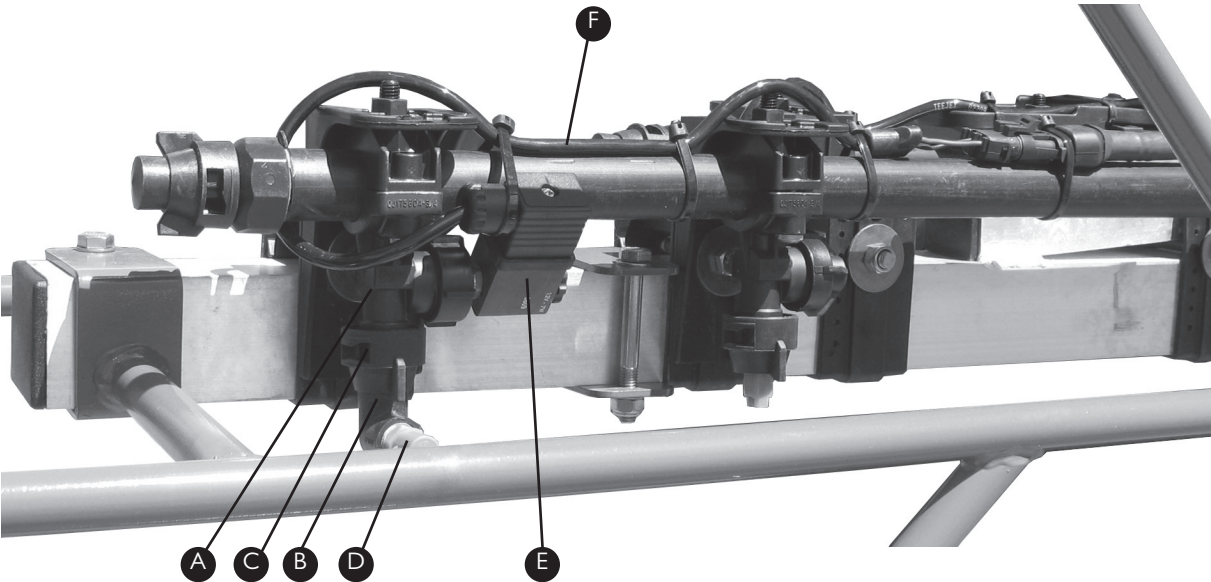
REMOTE FENCE LINE NOZZLES



Item	Part No	Description	Quantity
A	GA5077964	Manual Nozzle Body	1
B	GA5077986	90 Degree Nozzle Adapter	1
C	GA5055245	Seal	1
D	GA8100339L	Left Fence Line Nozzle	1
	GA8100340	Right Fence Line Nozzle	1

Item	Part No	Description	Quantity
E	GA5078150	3/4" Tee	1
F	GA5078010	3/4" x 1/2" Reducing Bush	1
G	GA5018421	Fence Line Solenoid	1
H	GA5077497	End Barb Adapter	1

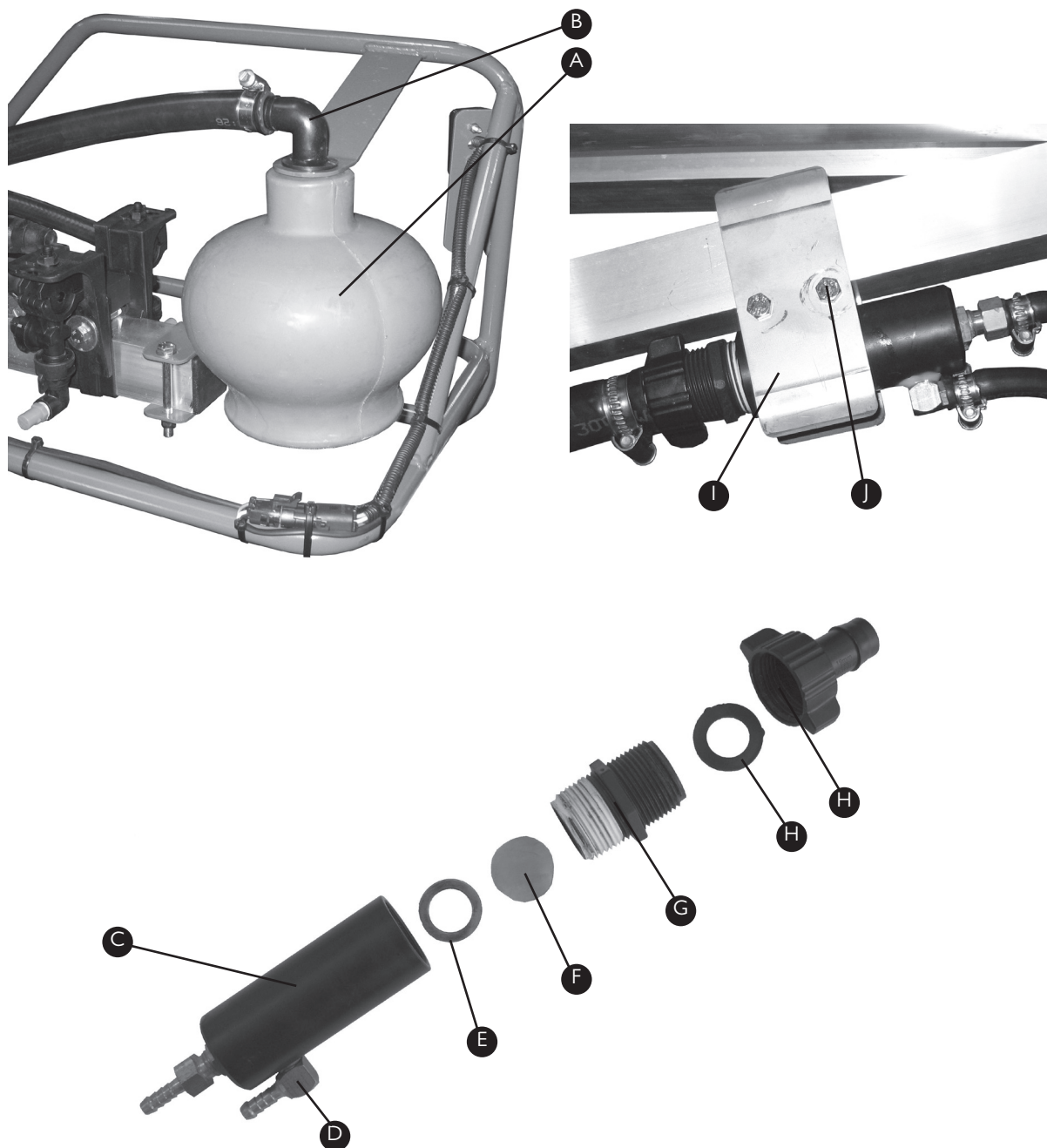
The Configuration above is for machines manufactured before 22/9/09 (Build Sequence No 18495, Serial No 101697), Machines after this date will have the configuration shown below.



Item	Part No	Description	Quantity
A	GA5077964	Manual Nozzle Body	1
B	GA5077986	90 Degree Nozzle Adapter	1
C	GA5055245	Seal	1
D	GA8100339	Left Fence Line Nozzle	1
	GA8100340	Right Fence Line Nozzle	1

Item	Part No	Description	Quantity
E	GA5077651	Fence Line Solenoid	1
F	GA5077076	Solenoid Extension Cable	1

## FOAM MARKER COMPONENTS



Item	Part No	Description	Quantity
A	GA5008491	Foam Accumulator	1
B	GA5076355	Elbow	1
C	FGEN-COM	Foam Generator	1
D	GA5066950	1/4" x 1/8" Elbow	1
E	GA5002497	3/4" Copper Washer	1
F	GA4948390	Mesh Screen	1

Item	Part No	Description	Quantity
G	GA5077914	1" Nipple	1
H	GA5007621	19mm x 1" Barb	1
I	F70239A	Generator Bracket	2
J-1	GA5004097	M6 x 60mm Bolt	2
J-2	GA5048115	M6 Nyloc Nut	2
J-3	GA5004437	6mm Washer	4





# CHAPTER 15

## ELECTRICS



Electrical Components . . . . .	15-2
Lights . . . . .	15-2
Raven (AMP) Electrical Connectors .	15-3
Electrical Connectors . . . . .	15-5
Loom Layout . . . . .	15-7

Rev 00 15/4/10

Note: For Boom Section Valves refer to Chapter 13: Boom Centre

## ELECTRICAL COMPONENTS

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Part No	Description
GA5004477	Round 7 Pin Trailer Plug



Part No	Description
GA5060350	Trailer Plug to American Style Plug Adapter



## LIGHTS

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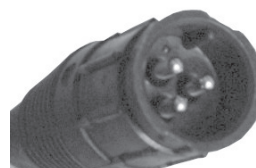
Part No	Description
GA5018786	LED Tail Light
GA5048975	Rotating Beacon Light
GA5020411	Screw In Insert for Beacon



## RAVEN (AMP) ELECTRICAL CONNECTORS

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Part No	Description
GA5076921	Male Flow Meter Connector



Part No	Description
GA5076922	Female Flow Meter Connector



Part No	Description
GA5076920	Male Speed Cable Connector



Part No	Description
GA5076923	Female Speed Cable Connector



Part No	Description
GA5076927	Male Pin for Speed and Flow Meter Connector



Part No	Description
GA5076928	Female Pin for Speed and Flow Meter Connector



## RAVEN (AMP) ELECTRICAL CONNECTORS\*

Item	Part No	Description
A	GA5076924	Male Loom Connector for 440 and 450 Consoles (16 Pin)
B	GA5049175	Connector Backing Shell



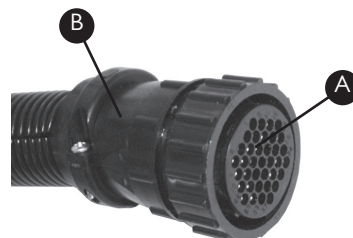
Part No	Description	
GA5076925	Female Loom Connector for 440 and 450 Consoles (Pin)	
B	GA5049175	Connector Backing Shell



Item	Part No	Description
A	GA5020785	Male Loom Connector for 4400 Console (37 Pin)
B	GA5020560	Backing Shell for Connector



Item	Part No	Description
A	GA5020780	Female Loom Connector for 4400 Console (37 Pin)
B	GA5020560	Backing Shell for Connector



Part No	Description
GA5048905	Male Pin for Raven Loom Connectors

Part No	Description
GA5048900	Female Pin for Raven Loom Connectors



\* These connectors are used on all Raven looms but are made by AMP



## ELECTRICAL CONNECTORS

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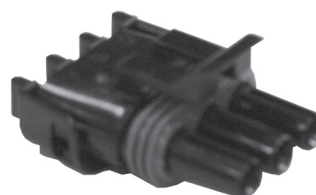
Part No	Description
GA500135I	Male 2 Pin Plug



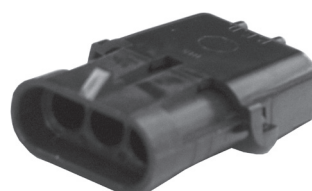
Part No	Description
GA500738I	Female 2 Pin Plug



Part No	Description
GA50022I	Male 3 Pin Plug



Part No	Description
GA5048550	Female 3 Pin Plug



Part No	Description
GA5007385	Male 4 Pin Plug



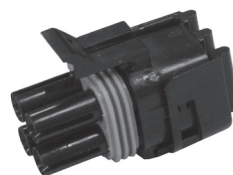
Part No	Description
GA5007383	Female 4 Pin Plug



## ELECTRICAL CONNECTORS

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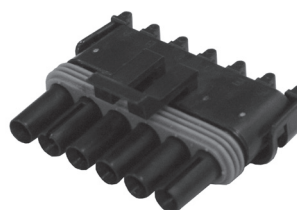
Part No	Description
GA5049000	Male Square 4 Pin Plug



Part No	Description
GA5050805	Female Square 4 Pin Plug



Part No	Description
GA5004009	Male 6 Pin Plug



Part No	Description
GA5002663	Female 6 Pin Plug



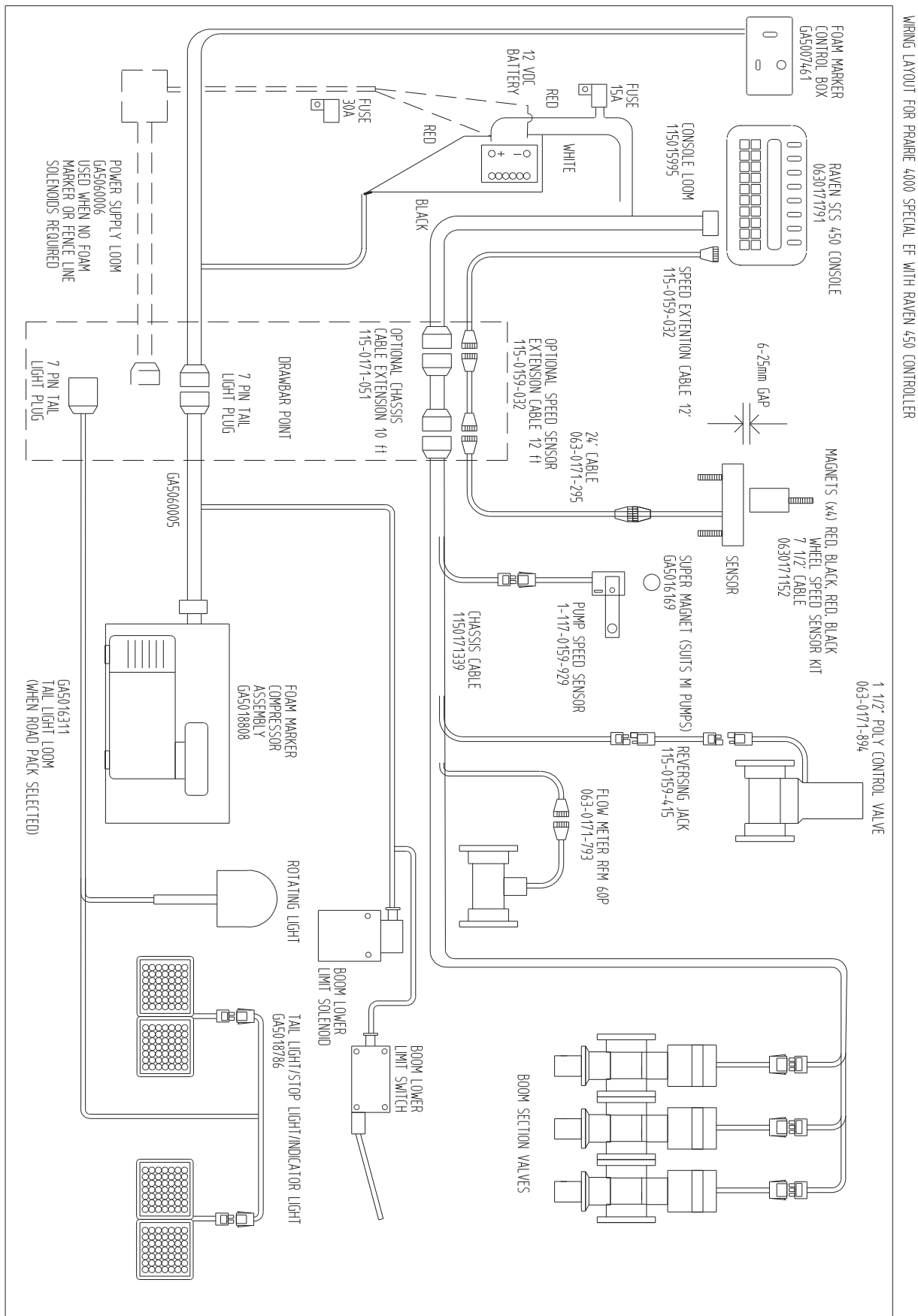
Part No	Description
GA5016617	Male Pin
GA5016619	Female Pin



Part No	Description
GA5014857	Rubber Seal (Green)



## WIRING DIAGRAM

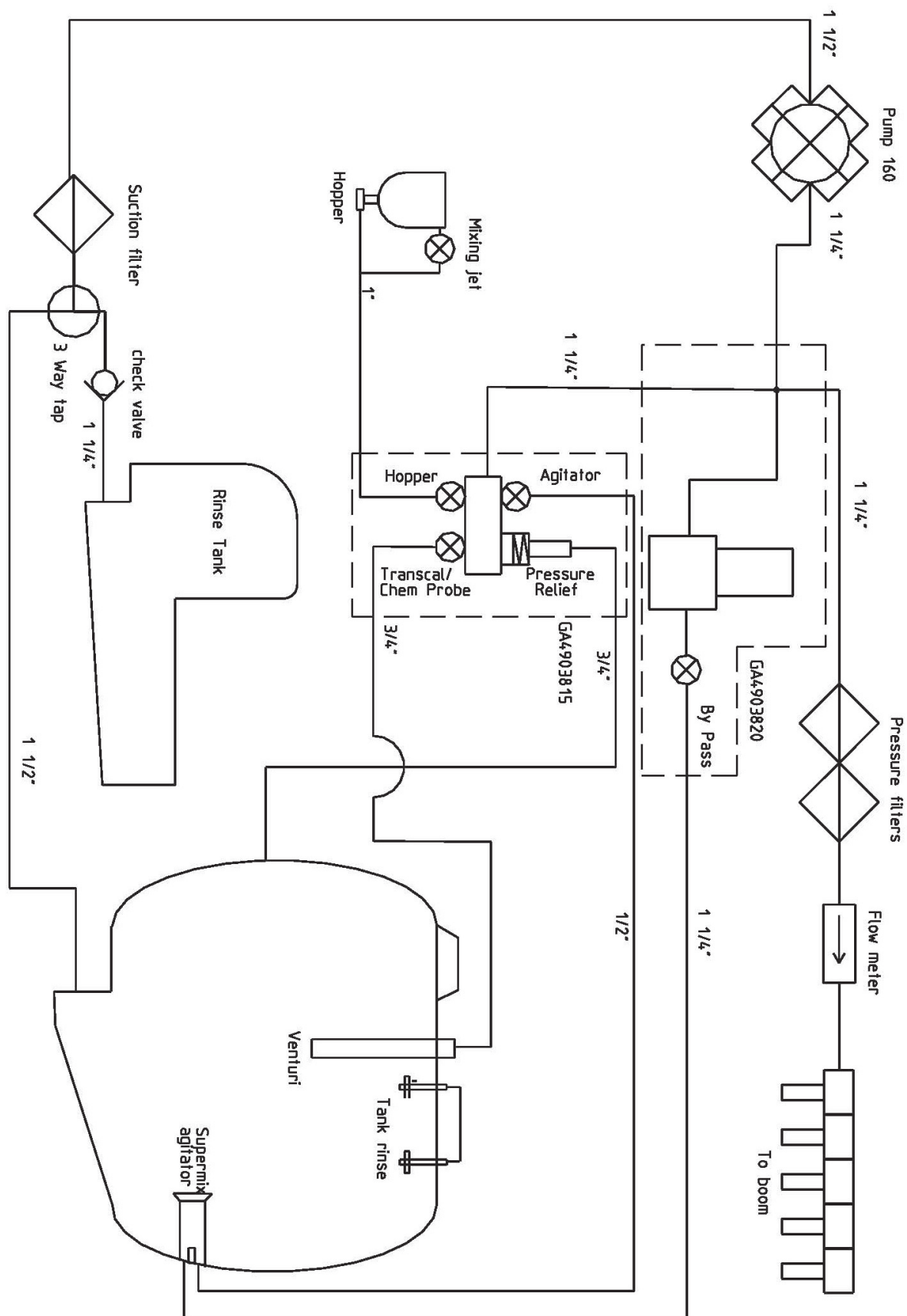




## SCHEMATICS

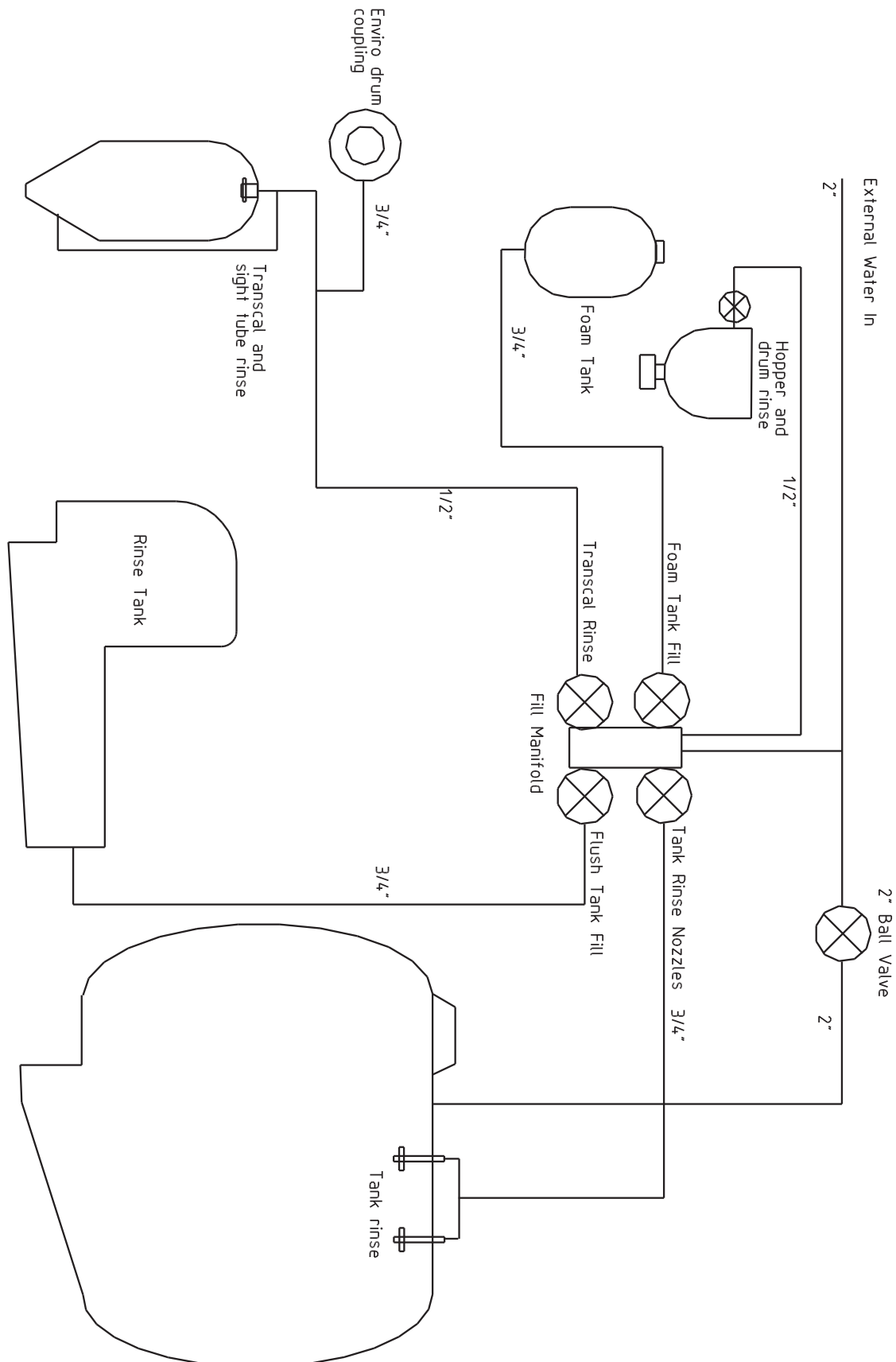
GOLDACRES PRAIRIE SPECIAL 4/5000L EF MY10 PART CATALOGUE

## PRESSURE SCHEMATIC

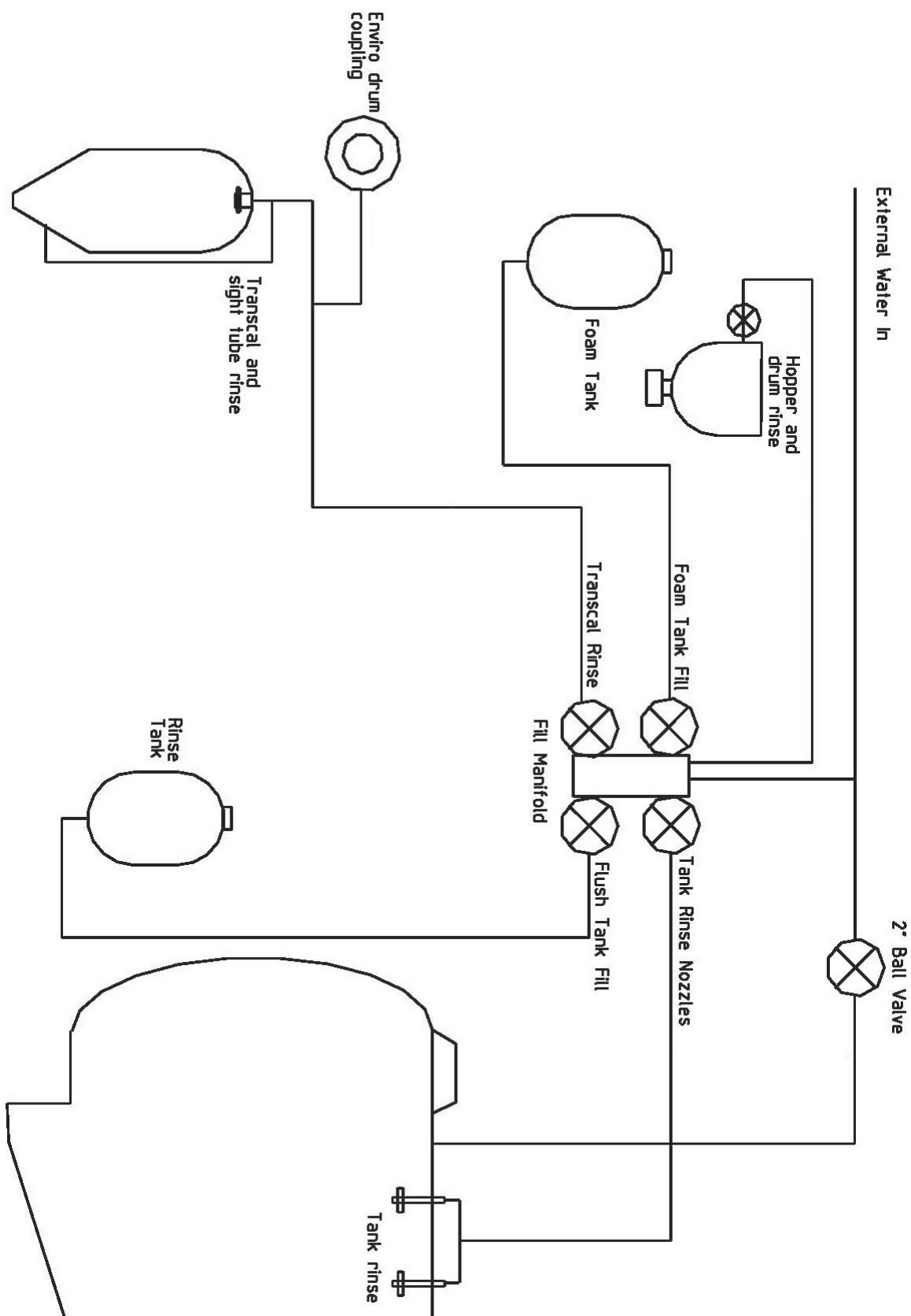




# RINSE WATER SCHEMATIC



## FOAM MARKER SCHEMATIC



# CHAPTER 17

## DECALS



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DECAL KITS



Part No	Description
GA5062620	Standard Decal Kit



Part No	Description
GA5062621	Decal Kit



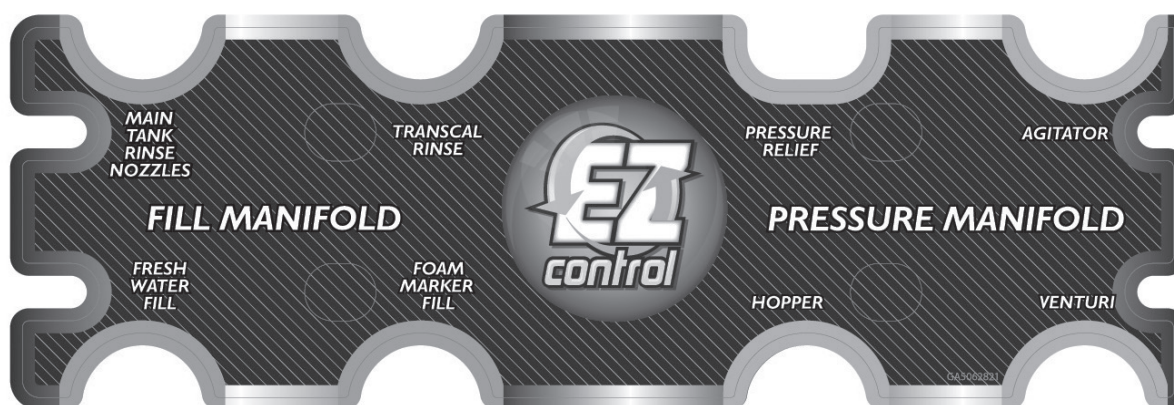
## MAIN TANK DECALS



Part No	Description	Quantity
GA5063180	Tank Decal 4018	2
GA5063185	Tank Decal 4021	2
GA5063190	Tank Decal 4024	2
GA5063315	Tank Decal 4028	2
GA5063320	Tank Decal 4030	2

Part No	Description	Quantity
GA5063290	Tank Decal 5018	2
GA5063295	Tank Decal 5021	2
GA5063300	Tank Decal 5024	2
GA5063305	Tank Decal 5028	2
GA5063310	Tank Decal 5030	2

## EZ CONTROL MANIFOLD DECAL



Part No	Description	Quantity
GA5062820	EZ control manifold decal	1

## WHEEL NUT WARNING DECAL



Part No	Description	Quantity
GA5017555	Wheel Nut Warning Decal	2

## ALUMINIUM BOOM DECAL

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Part No	Description	Quantity
GA5005385	Aluminium Boom Decal	2

## KEEP HANDS CLEAR DECAL

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Part No	Description	Quantity
GA5015991	Keep Hands Clear Decal	4



## DRAIN ONLY DECAL

---

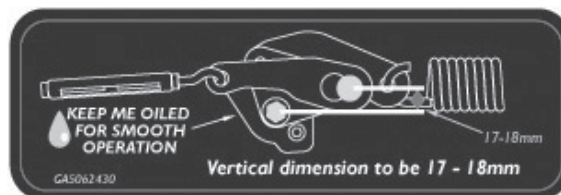
Part No	Description	Quantity
GA5015971	Drain Only Decal	1





## BREAK AWAY DECAL

Part No	Description	Quantity
GA5062430	Breakaway Decal	2

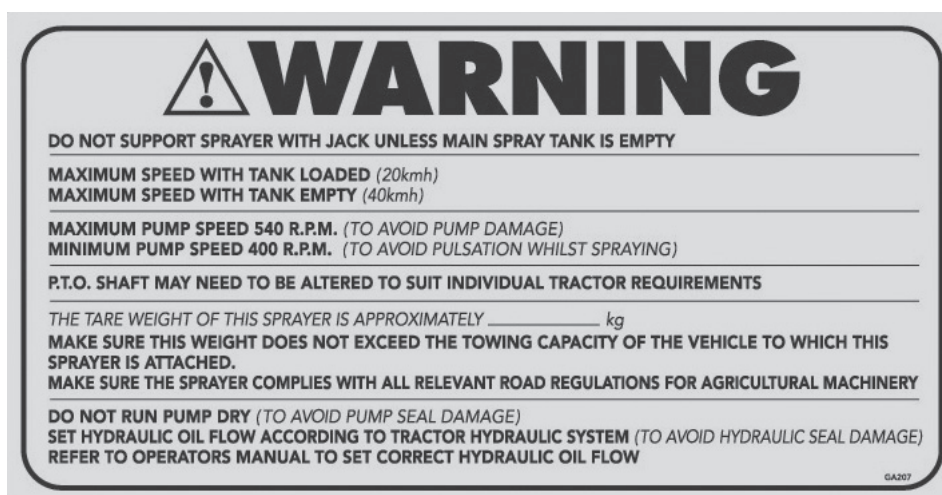


## GREASE DECAL

Part No	Description	Quantity
GA222	Grease Decal	32



## MAIN SPRAYER DECAL



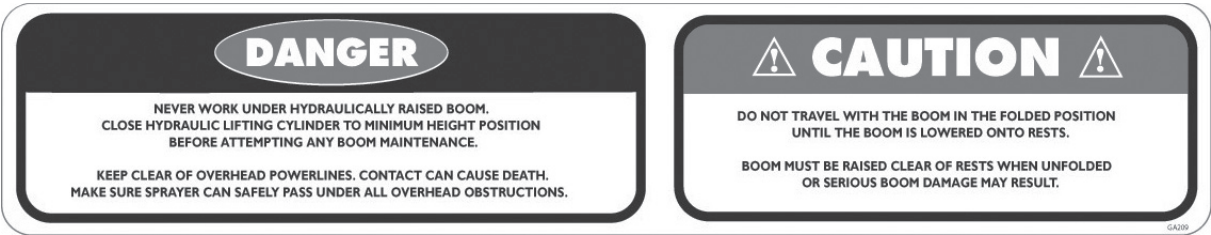
Part No	Description	Quantity
GA270	Main Sprayer Decal	1

SPRAYER STEPS DECAL



Part No	Description	Quantity
GA210	Do Not Enter Tank Decal	1

BOOM DANGER DECAL



Part No	Description	Quantity
GA209	Boom Danger Decal	1

FLUSH WATER LID DECAL



Part No	Description	Quantity
GA5062475	Flush Water Only Decal	1

## HAND WASH BOTTLE DECAL

---



Part No	Description	Quantity
GA5062480	Hand Wash Only Decal	1

## FOAM MARKER LID DECAL

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Part No	Description	Quantity
GA5062470	Foam Marker Lid Decal	1

## FOAM CONCENTRATE DECAL

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Part No	Description	Quantity
GA5062485	Foam Concentrate Decal	1

TRANSCAL DECAL



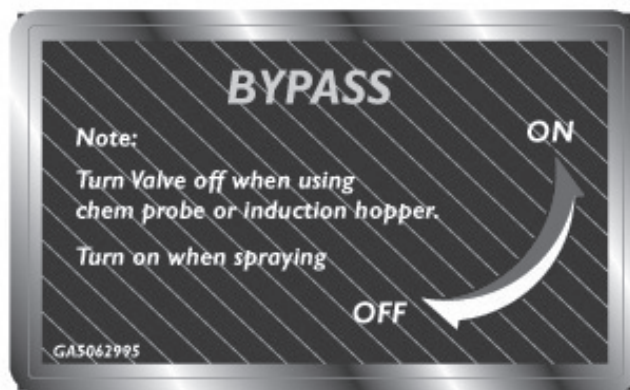
Part No	Description	Quantity
GA5062085	Transcal Tank Decal	1

INDUCTION HOPPER DECAL



Part No	Description	Quantity
GA5062095	60L Induction Hopper Tank Decal	1
GA5062100	40L Induction Hopper Tank Decal	1
GA208	Induction Hopper Warning Decal	1

## BYPASS DECAL



Part No	Description	Quantity
GA5062995	Bypass Decal	1

## DECAL PLACEMENT LIST

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





# CHAPTER 18

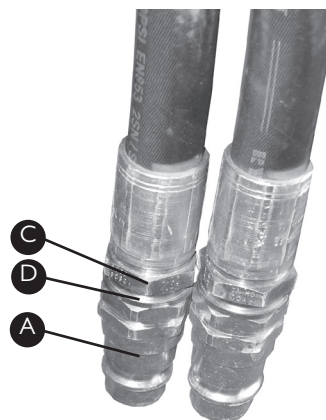
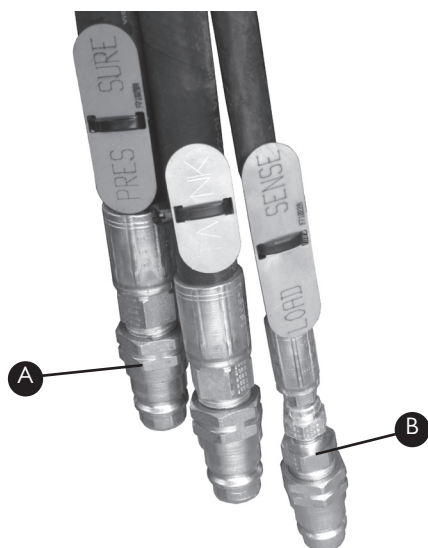
## HYDRAULICS



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Hydraulic Hoses . . . . .	18-4

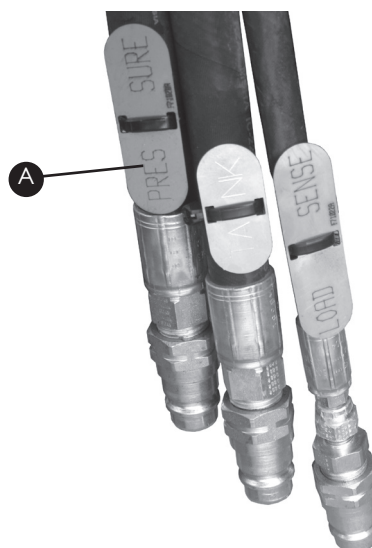
Rev 00 15/4/10

## QUICK RELEASE COUPLINGS

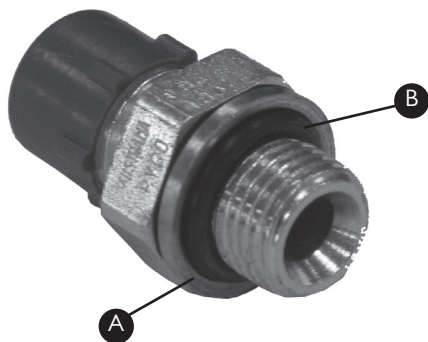


Item	Part No	Description	Quantity
A	GA5078000	1/2"BSPP Female Push/Pull Quick Release Coupling	5
B	GA350022I	1/2"BSPT-1/2"BSPT Straight Hydraulic Nipple	1
C	35B-08	1/2"BSPP Lock Nut	2
D		Refer to page 18-3	

Item	Part No	Description
A	F71023A	Fold In Tag
	F71024A	Fold Out Tag
	F71025A	Raise Lower Tag
	F70134A	Tilt Left Tag
	F70135A	Tilt Right Tag



HYDRAULIC O-RINGS AND RETAINING WASHERS



Item	Part No	Description
A	GA5076889	1/4" Retaining Washer
	GA5076890	3/8" Retaining Washer
	GA5076891	1/2" Retaining Washer
	GA5076892	3/4" Retaining Washer

Item	Part No	Description
B	GA5078119	1/4" Hydraulic O-Ring
	GA5078120	3/8" Hydraulic O-Ring
	GA5078121	1/2" Hydraulic O-Ring
	GA5078122	3/4" Hydraulic O-Ring

Note: O-Ring are only sold in packs of 10.

BOOM LOWER CONTROL SOLENOID

Item	Part No	Description	Quantity
A	GA5047344	Boom Lower Control	1
		Solenoid	
B	GA3500309	3/8" x 1/2" Hydraulic Nipple	

Note: Solenoid can be manually over ridden by turning screw on top of solenoid clockwise.



## HYDRAULIC HOSES

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GA5067886	1/2" Hydraulic Hose, Tractor to Limit Switch
GA5067887	1/2" Hydraulic Hose, Limit Switch to Accumclator Manifold
GA5067898	1/2" Hydraulic Hose, Accumulator manifold to para lift cylinder
GA5067230	1/4" Hydraulic Hose, Tractor to Fold Cylinders, Tractor to tilt cylinders
GA5067902	1/4" Hydraulic Hose, Fold Cylinder Cross Link

For hydraulic pump drive hoses refer to Chapter 2: Pumps

# CHAPTER 19

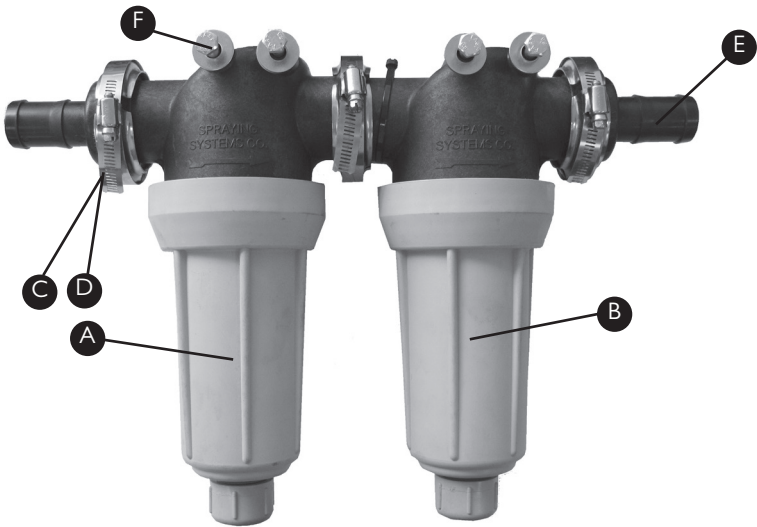
## PLUMBING



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Hose Clamps.....	19-7

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PRESSURE FILTERS



Assembly Part No GA4903066

Item	Part No	Description	Quantity
A	GA5077285	Filter with 80 Mesh Screen	1
B	GA5077284	Filter with 100 Mesh Screen	1
C	FC200	Screw Clamp	3
D	GA5009335	Gasket	3

Item	Part No	Description	Quantity
E	GA5077830	1 1/4" Hose Barb to Flange	1
F-1	GA5011503	M8 x 140mm Bolt	4
F-2	GA5004917	M8 Nyloc Nut	4
F-3	GA5003643	8mm Washer	8

REPLACEMENT PRESSURE FILTER PARTS

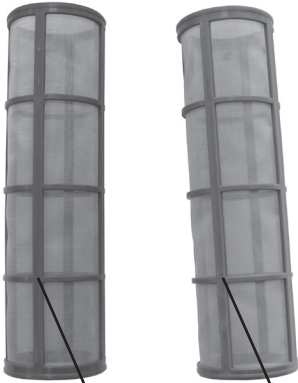


Diagram showing two cylindrical mesh screens. Callout A points to the blue screen. Callout B points to the green screen.


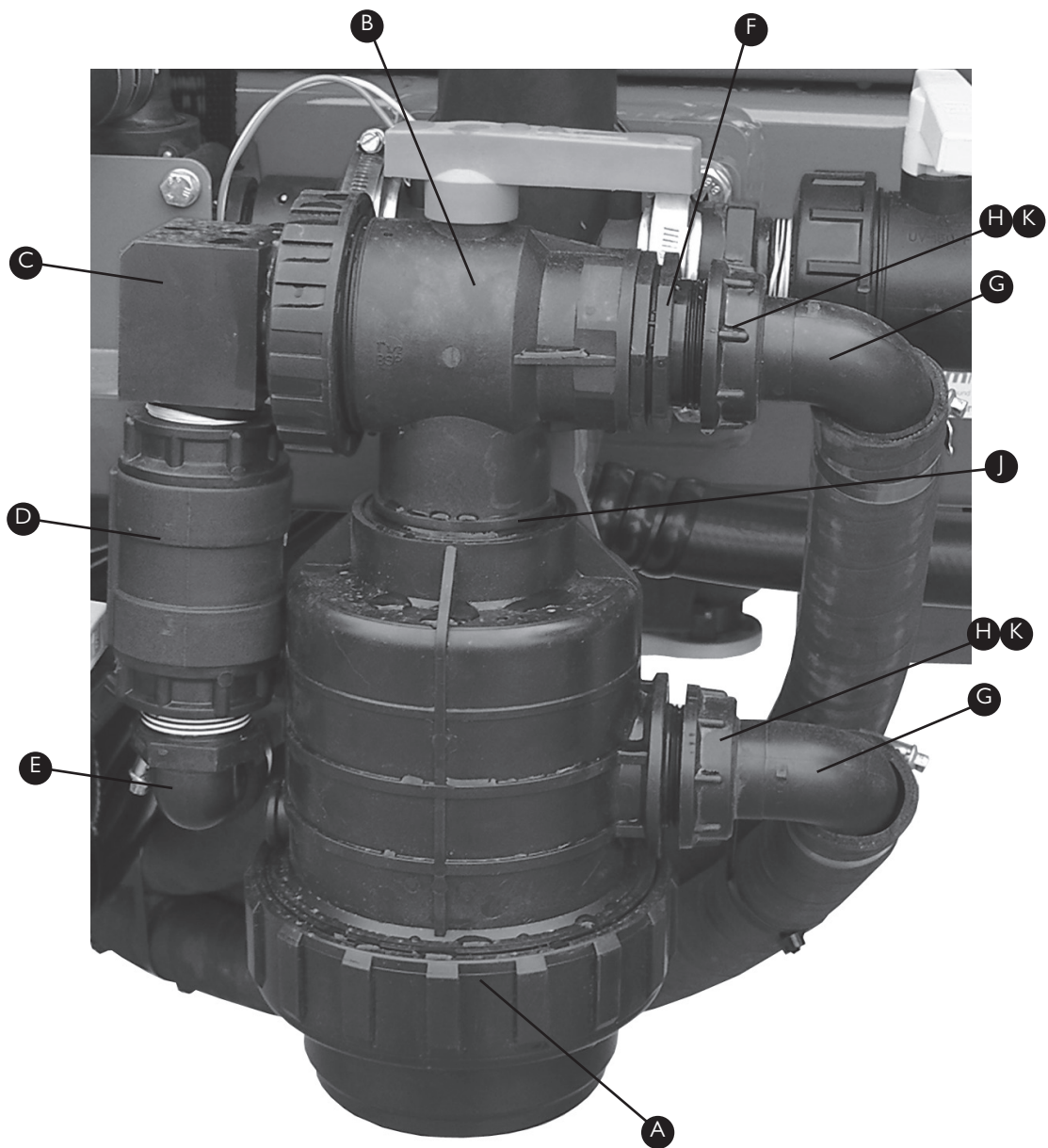


Diagram showing a close-up of a filter housing top cap. Callout C points to an O-ring. Callout D points to a tool for removing pressure.

Item	Part No	Description
A	GA5077394	80 Mesh Screen (Blue)
B	GA5077395	100 Mesh Screen (Green)
C	GA5077541	O-ring
D	GA4522610	Tool for Removing Pressure
		Filter Housing



SUCTION FILTER



Kit Part No GA4903060

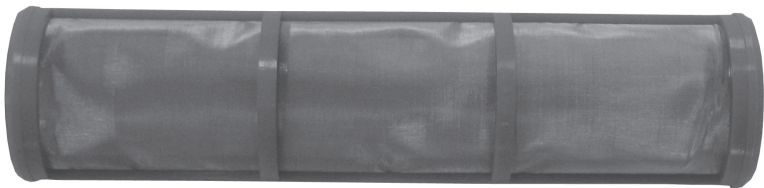
Item	Part No	Description	Quantity
A	GA5076782	1 1/2" Suction Filter w/ 50 Mesh*I	1
B	GA5076985	3 Way Ball Valve 1 1/2"	1
C	L050A	Elbow 1 1/2" x 1 1/4"	1
D	GA5017361	1 1/4" Check Valve	1
E	GA5077725	1 1/4" x 1" Poly Elbow	1
F	2502060	1 1/2" Poly Nipple	1
G	GA5076260	1 1/2" Poly Elbow	2

Item	Part No	Description	Quantity
H	GA5076597	1 1/2" Fly Nut	2
I-1	GA5004701	M8 x 20mm Bolt#	5
I-2	GA5004883	8mm Washer#	10
I-3	GA5004919	8mm Spring Washer#	5
J	GA5009187	50mm O-Ring	1
K	GA5077679	29 x 3 O-Ring	4

\* Replacement filter screens available Part No    316 003.030 ,50 Mesh Blue (Standard)  
   316002.030 ,32 Mesh White  
   3160035.030 ,80 Mesh Grey

# Not shown in photo, hidden from view

# FOAM MARKER FILTER



Part No	Description
GA5077404	200 Mesh Screen for Foam
	Marker use only (Orange)

For filter assembly refer to Chapter 9 Foam Marker

# AIR FILTER



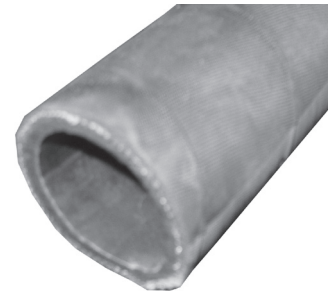
Part No	Description
GA5005259	Air Filter

Part No	Description
GA5049460	Replacement Air Filter
	Element*

\* This is only a replacement part and complete air filter comes with one already installed

## SUCTION HOSE

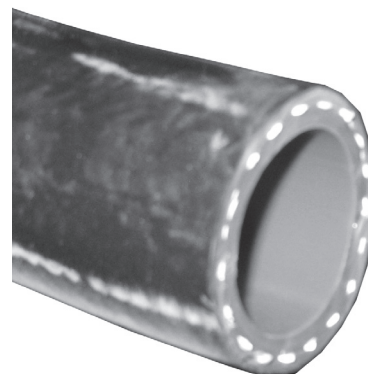
Part No	Description
GA2000218	20mm Suction Hose
GA2000222	25mm Suction Hose
GA2000224	32mm Suction Hose
GA2000226	38mm Suction Hose
GA2000229	51mm Suction Hose
GA2000230	63mm Suction Hose
GA2000232	75mm Suction Hose



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

## PRESSURE HOSE

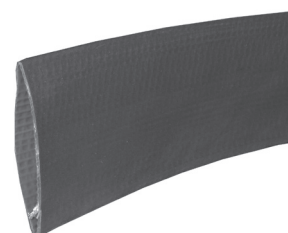
Part No	Description
GA2000211	12.5mm Pressure Hose
GA2000216	20mm Pressure Hose
GA2000219	25mm Pressure Hose
GA2000223	32mm Pressure Hose
GA2000225	38mm Pressure Hose



Pressure Hose can be defined by its blue internal layer

## LAYFLAT HOSE

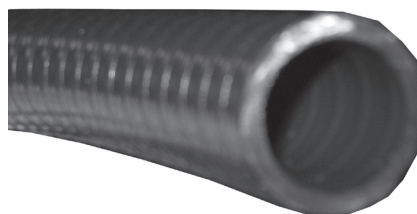
Part No	Description
GA5021395	50mm Blue Layflat Hose



## PVC HOSE

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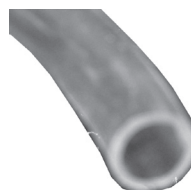
Part No	Description
GA2000220	25mm PVC Hose
GA2000227	40mm PVC Hose
GA2000228	50mm PVC Hose



## SIGHT TUBE HOSE

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Part No	Description
GA2000209	12mm Clear Sight Tube Hose
GA2000210	12mm Sight Tube with Wire



## FOAM MARKER HOSE

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Part No	Description
GA2000200	7mm Hose



# HOSE CLAMPS

Part No	Description
GA5004865	8-16mm Hose Clamp
GA5000469	12-20mm Hose Clamp
GA5000299	16-25mm Hose Clamp
GA5001681	20-32mm Hose Clamp
GA5002783	30-45mm Hose Clamp
GA5002873	32-50mm Hose Clamp
GA5003325	40-60mm Hose Clamp
GA5016815	50-70mm Hose Clamp
GA5004241	60-80mm Hose Clamp



