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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.

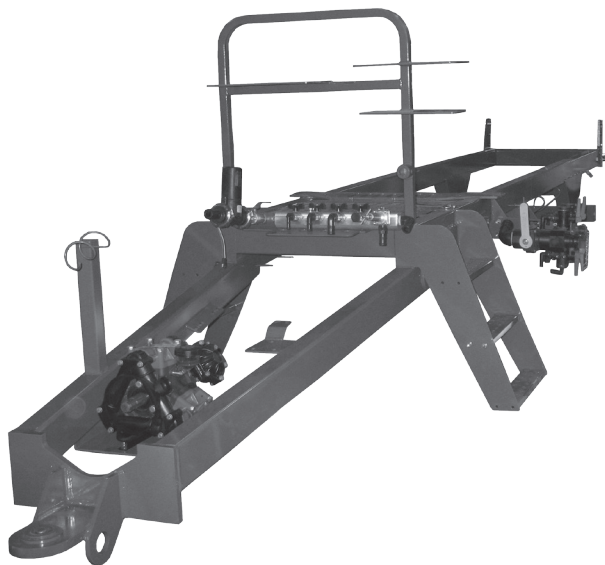
## CURRENT PART MANUAL REVISIONS

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Chapter	Current Revision	Revision Date
Introduction	01	11/1/10
1 - Chassis	00	27/8/09
2 - Pumps	01	6/1/10
3 - Flush Tank	00	27/8/09
5 - Liquid Controls	00	27/8/09
8 - Induction Hopper	01	6/1/10
9 - Foam Marker	01	6/1/10
10 - Transcal	01	6/1/10
11 - Main Tank	00	27/8/09
12 - Wheels, Axles & Mudguards	00	27/8/09
13 - Boom Centre	01	6/1/10
14 - Boom Wing	01	6/1/10
15 - Electrics	01	6/1/10
16 - Schematics	00	27/8/09
17 - Decals	00	27/8/09
18 - Hydraulics	00	27/8/09
19 - Filtration & Hose	00	27/8/09

# CHAPTER I

## CHASSIS

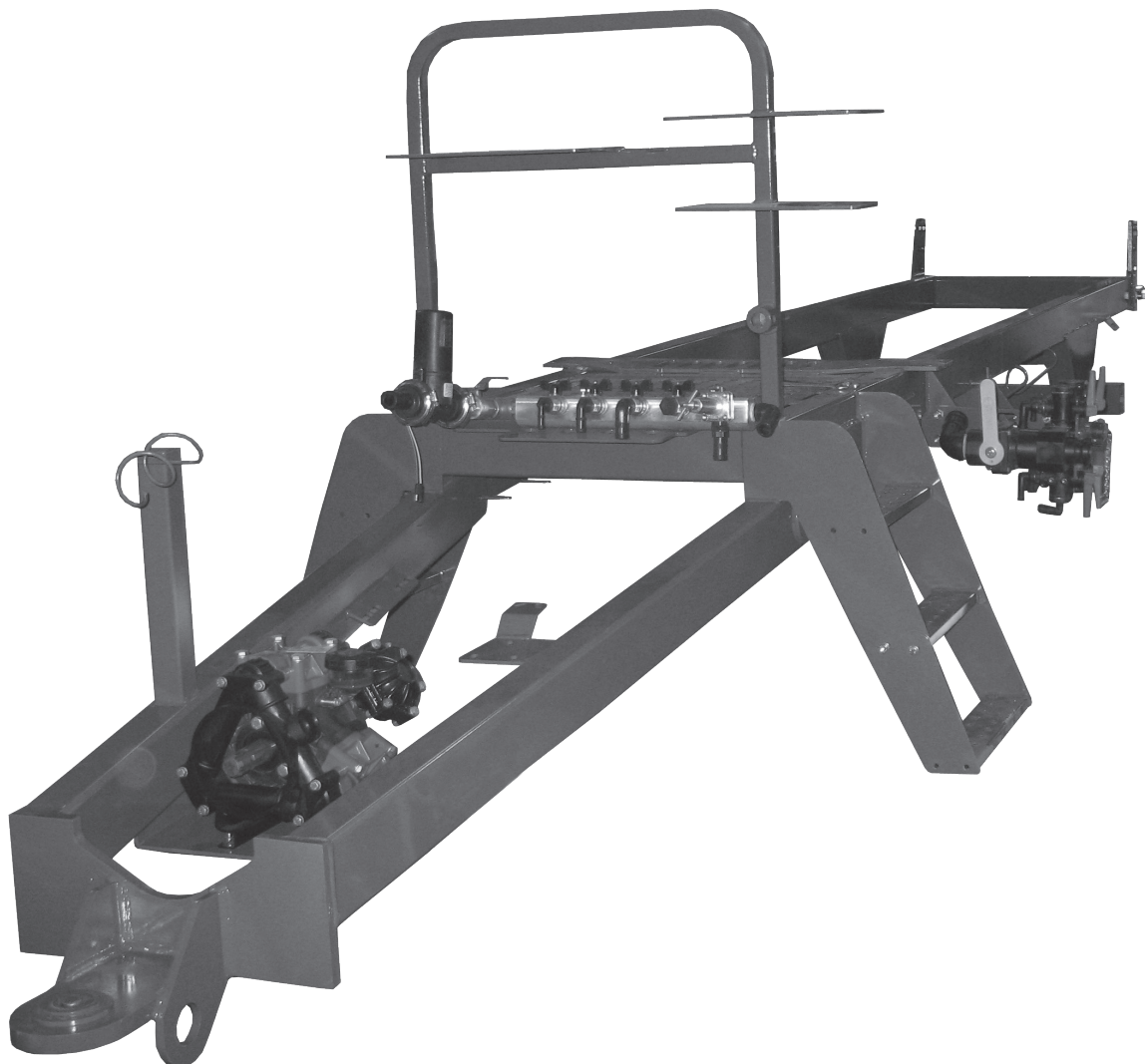


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## MAIN CHASSIS

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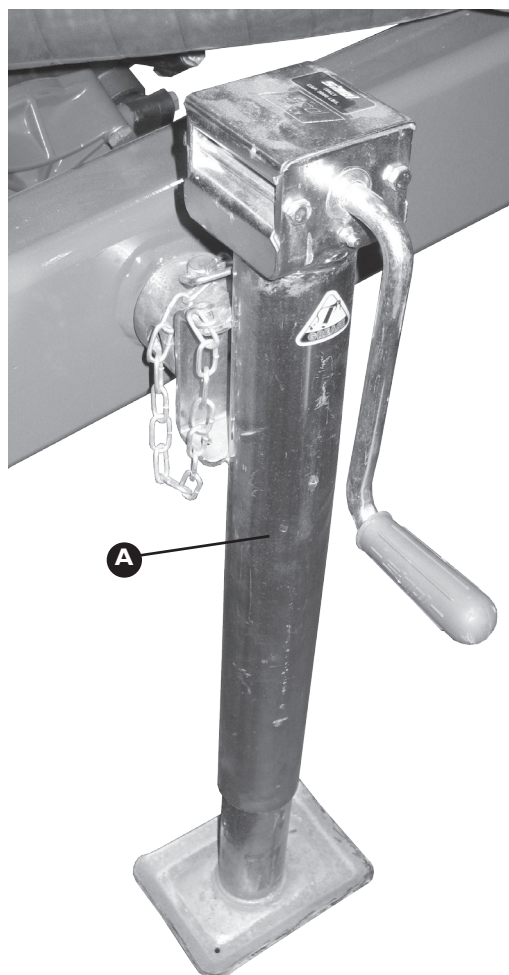


Part No	Description
GA4652115	3000L Prairie Special Chassis (Bare)



# JACK

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

## H-FRAME

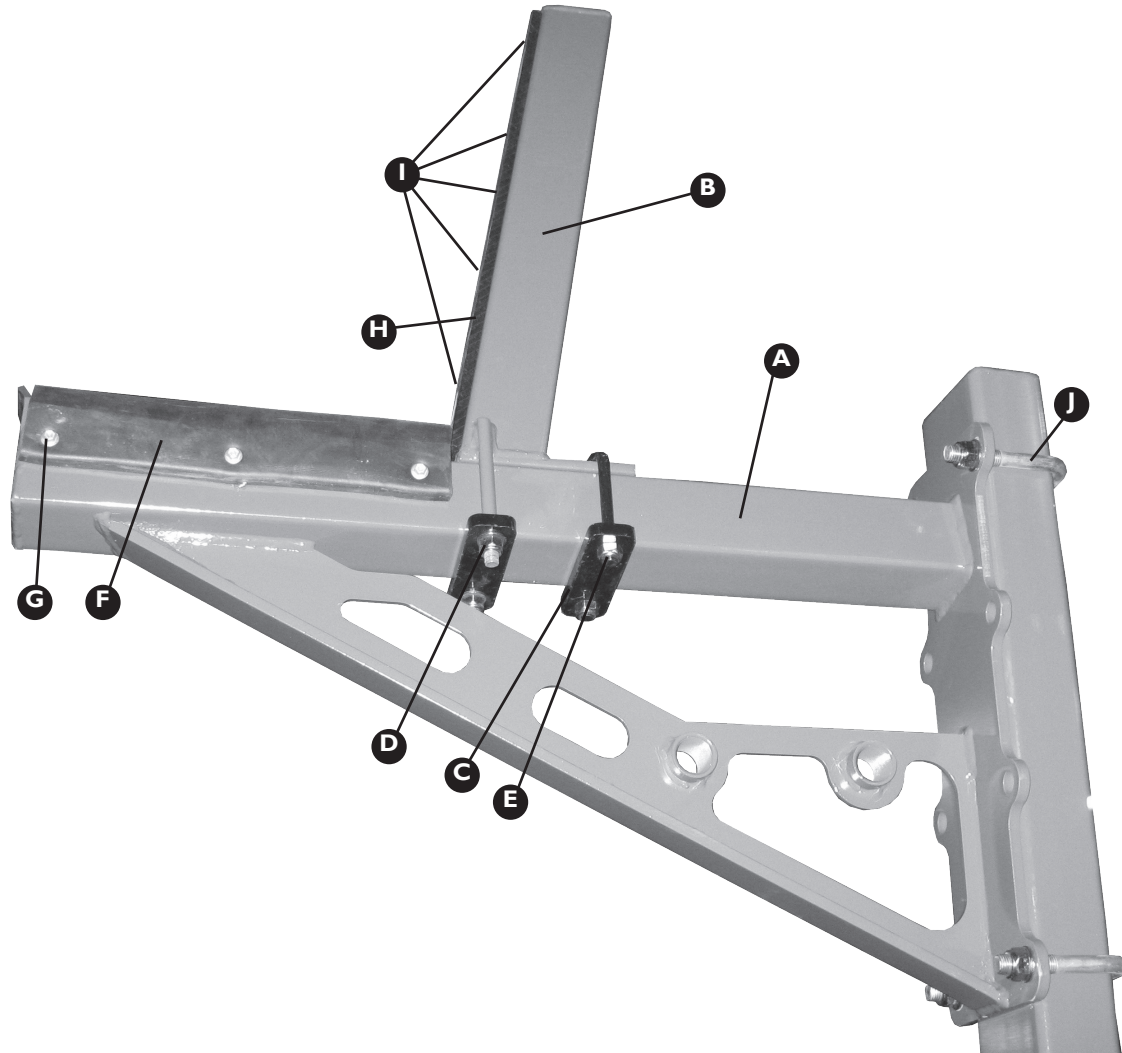
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Item	Part No	Description	Quantity
A	GA4654175	H-Frame	1
B-1	GA5000931	M16 x 50mm Bolt	8
B-2	GA5001029	M16 Nyloc Nut	8
B-3	GA5001043	16mm Washer	16



## BOOM RESTS



Item	Part No	Description	Quantity
A	GA4654200	Right Boom Rest	1
	GA4654205	Left Boom Rest	1
B	GA4654250	Boom Rest Upright	1
C	F70107A	Upright Retainer Plate	2
D-1	GA5012461	M12 Nyloc Nut	2
D-2	GA5000577	12mm Washer	4
E-1	GA5011259	M12 x 76mm x 110mm U Bolt	1
E-2	GA5012461	M12 Nyloc Nut	2

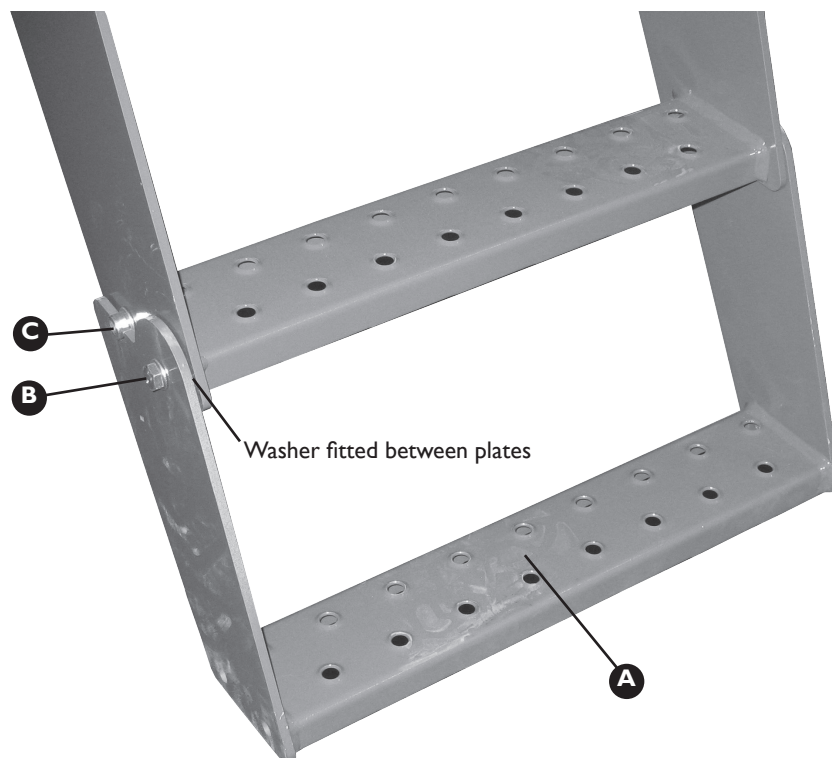
Item	Part No	Description	Quantity
E-1	GA5000577	12mm Washer	2
F	GA5014617	Boom Rest Rubber	1
G	GA5000707	Tex Screw	6
H	GA5066630	Plastic Guide Plate	1
I	GA5051230	Counter Sunk Screw*	5
J-1	GA5011277	M16 x 127mm x 110mm U Bolt	2
J-2	GA5001029	M16 Nyloc Nut	4
J-3	GA5001043	16mm Washer	4

\* Not Shown hidden from view

# Note all components duplicated for other side of sprayer

## STEPS

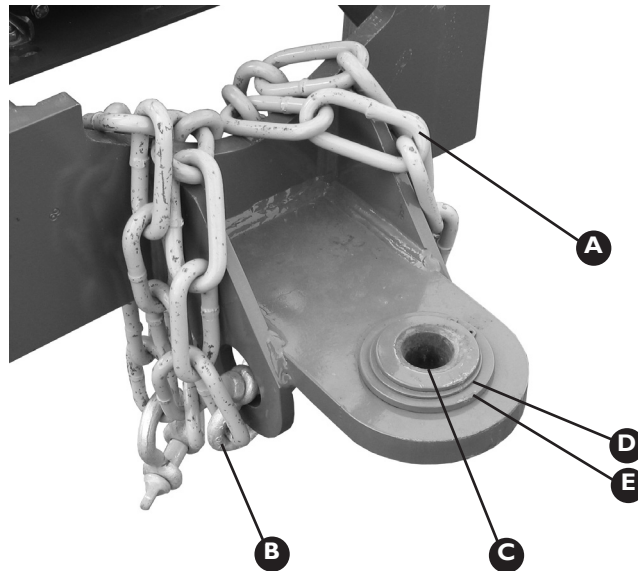
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Item	Part No	Description	Quantity*
A	GA4654585	Step Lower	1
B-1	GA5050180	M10 x 25mm Bolt	2
B-2	GA5000141	M10 Nyloc Nut	2
B-3	GA5000117	10mm Washer	6
C-1	GA5020110	M10 x 25mm Cap Screw	2
C-2	GA5000141	M10 Nyloc Nut	2
C-3	GA5000117	10mm Washer	4

\* Quantity is per side of machine

## DRAWBAR ACCESSORIES

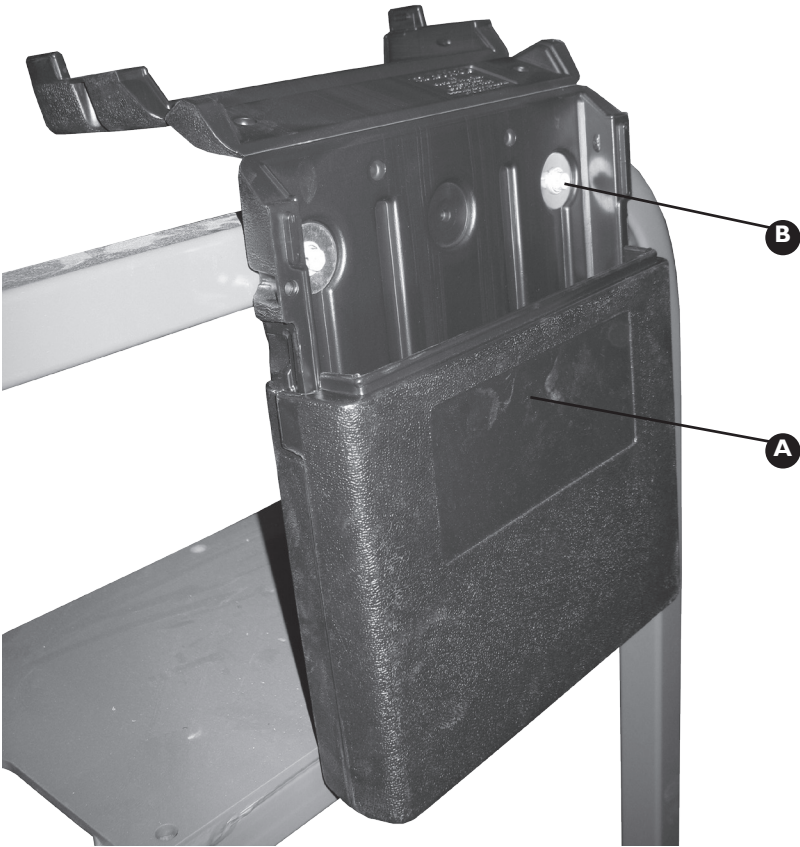


Item	Part No	Description	Quantity
A	GA5065030	Safety Chain (11 Links)	2
B	GA5000667	D Shackle	4
C	HDBB001MACH	32mm Tow Eye Bush*	1
	HDBB002MACH	40mm Tow Eye Bush#	1
	HDBB003MACH	50mm Tow Eye Bush#	1
	HDBB004MACH	55mm Tow Eye Bush#	1
D	GA5008521	External Circlip	1
E	HDBW001MACH	Drawbar Washer	1

\* Standard fitment

# Optional sizes available

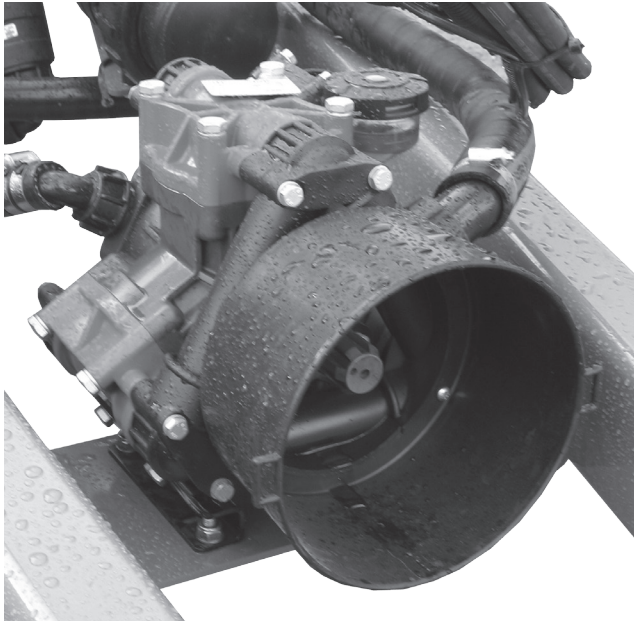
MANUAL HOLDER



Item	Part No	Description	Quantity
A	GA5049630	Plastic Manual Holder	1
B-1	GA5000707	Tek Screw	2
B-2	GA5003645	5/16" x 1 1/4" Washer	2

# CHAPTER 2

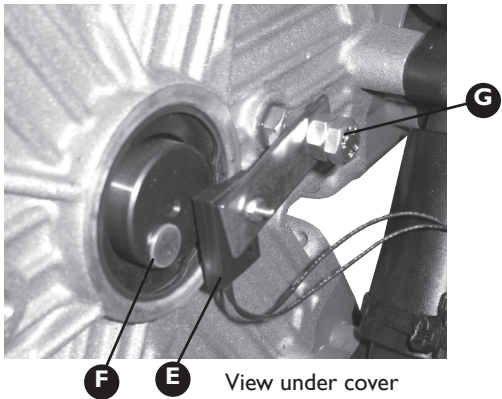
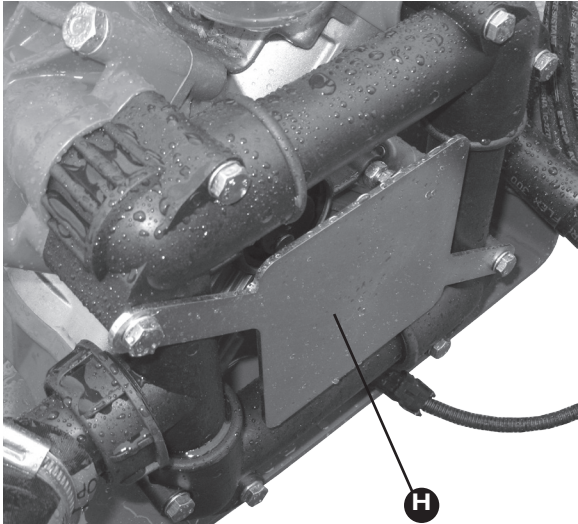
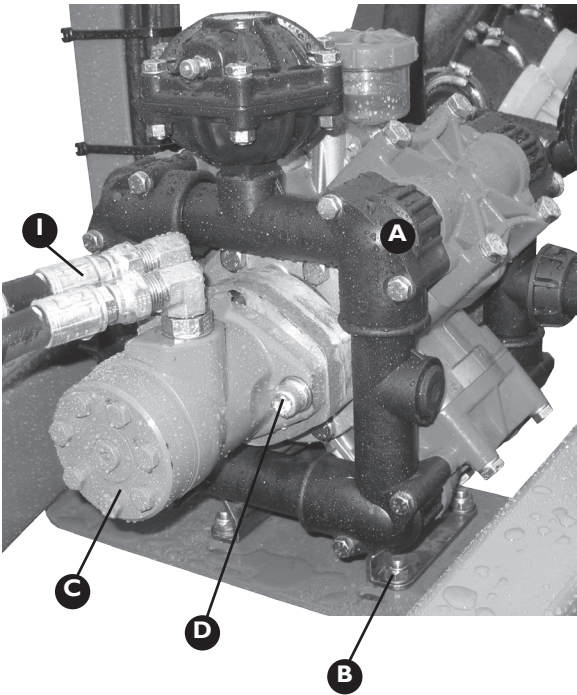
## PUMPS



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130l/min Pump Breakdown.....	2-5
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HYDRAULIC DRIVE PUMPS\*



View under cover

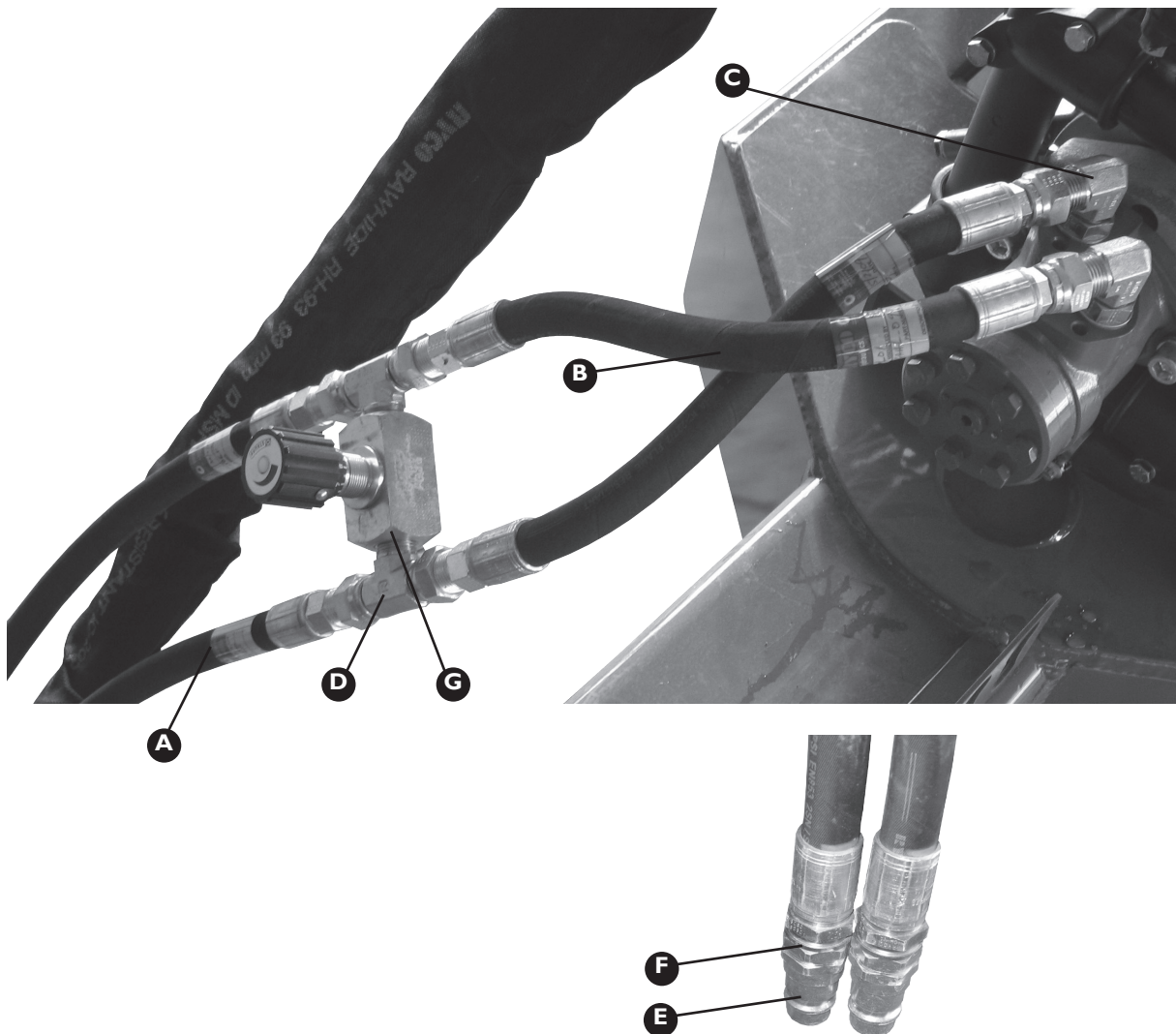
Assembly Part No GA4900645-PS			
Item	Part No	Description	Quantity
A	RO160MI	160l/min Pump (Hydraulic Drive) I	
B-1	GA5065455	M10 x 30mm Bolt	4
B-2	GA5000141	M10 Nyloc	4
B-3	GA5000139	10mm Washer	4
B-4	GA5002627	3/8" Washer	4
C	GA5047515	Hydraulic Motor 80cc	1
D-1	GA5000321	M12 x 40mm Cap Screw	2
D-2	GA5000575	12mm Spring Washer	2

Item	Part No	Description	Quantity
D-3	GA5000577	12mm Washer	2
E	1170171293	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	Hydraulic Hose Kit	1

\* Available in 160L/min only



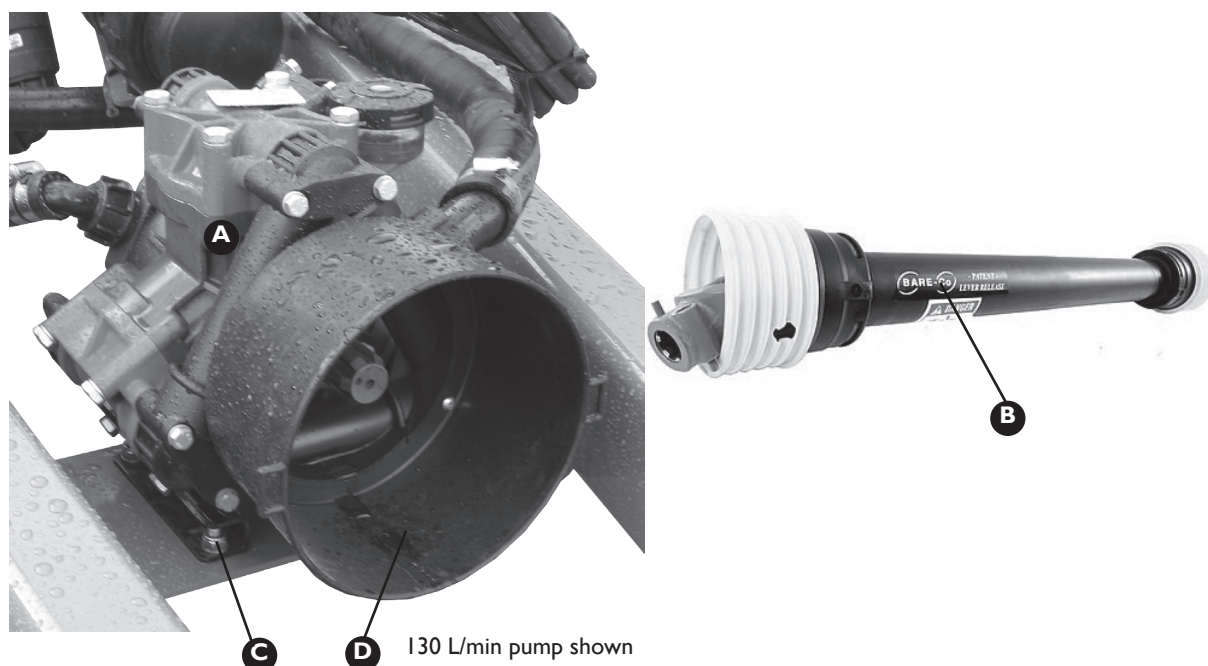
# HYDRAULIC HOSE KIT



## Kit Part No GA5067185

Item	Part No	Description	Quantity
A	HL-08	1100mm long Hydraulic Hoses	2
B	HL-09	300mm Long Hydraulic Hoses	2
C	S77-0808	90 Degree Hydraulic Elbow	2
D	S83-080808	Hydraulic Tee	2
E	R81-08M	Hydraulic Male Fitting	2
F	RL21-08	O-ring	2
G	GA5018221	1/2" Needle Valve	1

## PTO DRIVE PUMPS



130 L/min pump shown

Item	Part No	Description	Quantity
A	RO1301C	130l/min PTO Pump	1
	RO1601C	160l/min PTO Pump	1
B	GA4900714	PTO Shaft	1
C-1	GA5065455	M10 x 30mm Bolt	4
C-2	GA5000141	M10 Nyloc Nut	4

Item	Part No	Description	Quantity
C-3	GA5000115	10mm Washer	4
C-4	GA5002627	3/8" Washer	4
D	7652-7202121913	PTO Cover for 130 Pump	1
	7650-7202121902	PTO Cover for 160 Pump	1

A 130l/min pump has a triangular shape manifold and is fitted standard, while a 160l/min pump has a square manifold.

## STANDARD PUMP REPAIR KITS

### Complete Repair Kits

#### RO130 Pump (130 L/min), P/N KIT-RO130-C

Part No	Description	Quantity
090302 (1291)	Side Diaphragms	3
090314 (1300)	Air Diaphragms	1
000705 (0157)	Front Oil Seal	1
110158 (1401)	O-Ring	1
110179 (1412)	O-Ring	1
600608 (1709)	Valve Assy	6

### Diaphragm Kits

#### RO130 Pump (130 L/min), P/N KIT-RO130-D

Part No	Description	Quantity
090302 (1291)	Side Diaphragms	3
090314 (1300)	Air Diaphragms	1

#### RO160 Pump (160 L/min), P/N KIT-RO160-C

Part No	Description	Quantity
090302 (1291)	Side Diaphragms	4
090314 (1300)	Air Diaphragms	1
000702 (0156)	Front Oil Seal	1
600608 (1709)	Valve Assy	8

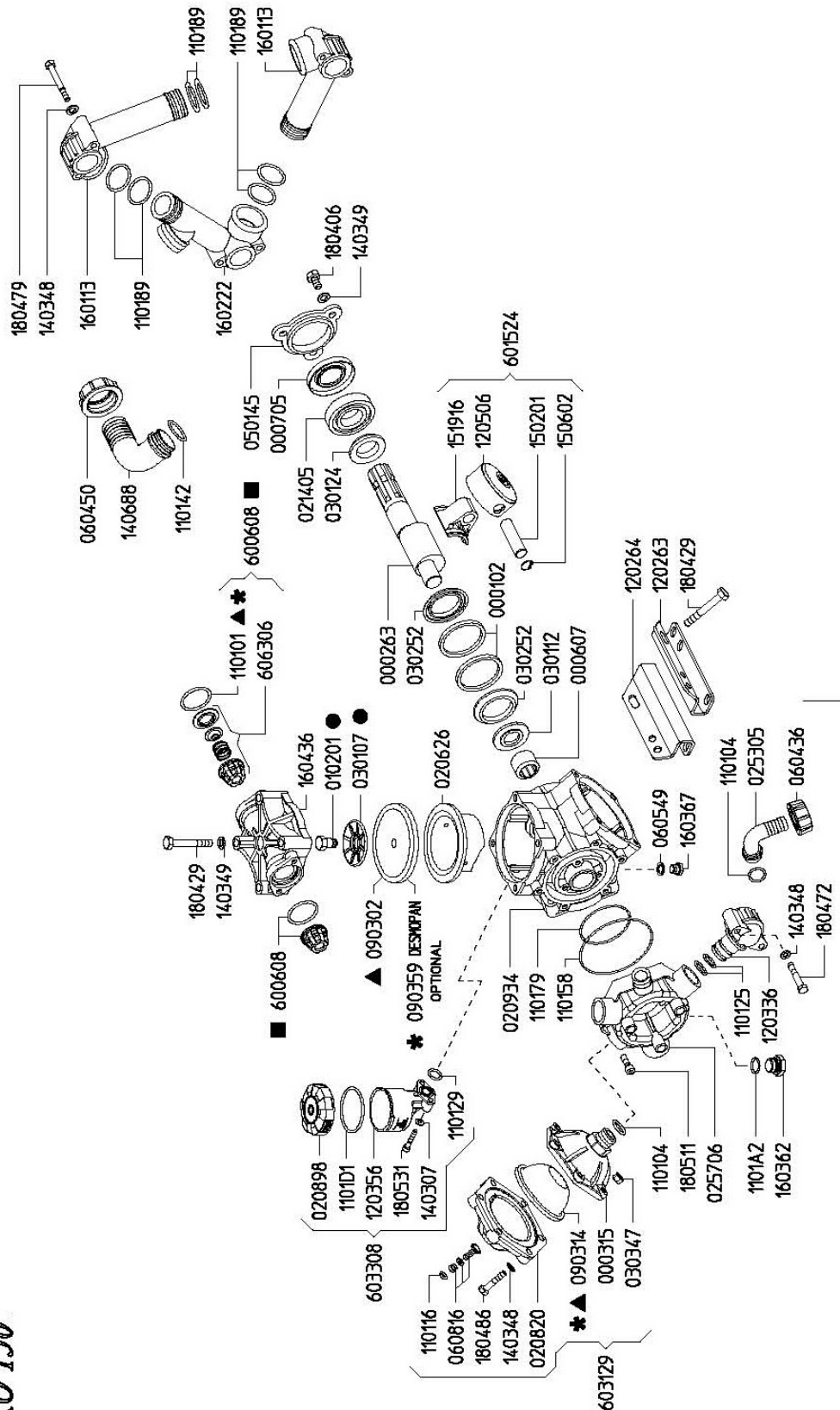
#### RO160 Pump (160 L/min), P/N KIT-RO160-D

Part No	Description	Quantity
090302 (1291)	Side Diaphragms	4
090314 (1300)	Air Diaphragms	1



# I 30l/min PUMP BREAKDOWN

RO 130



## I 30l/min PUMP BREAKDOWN

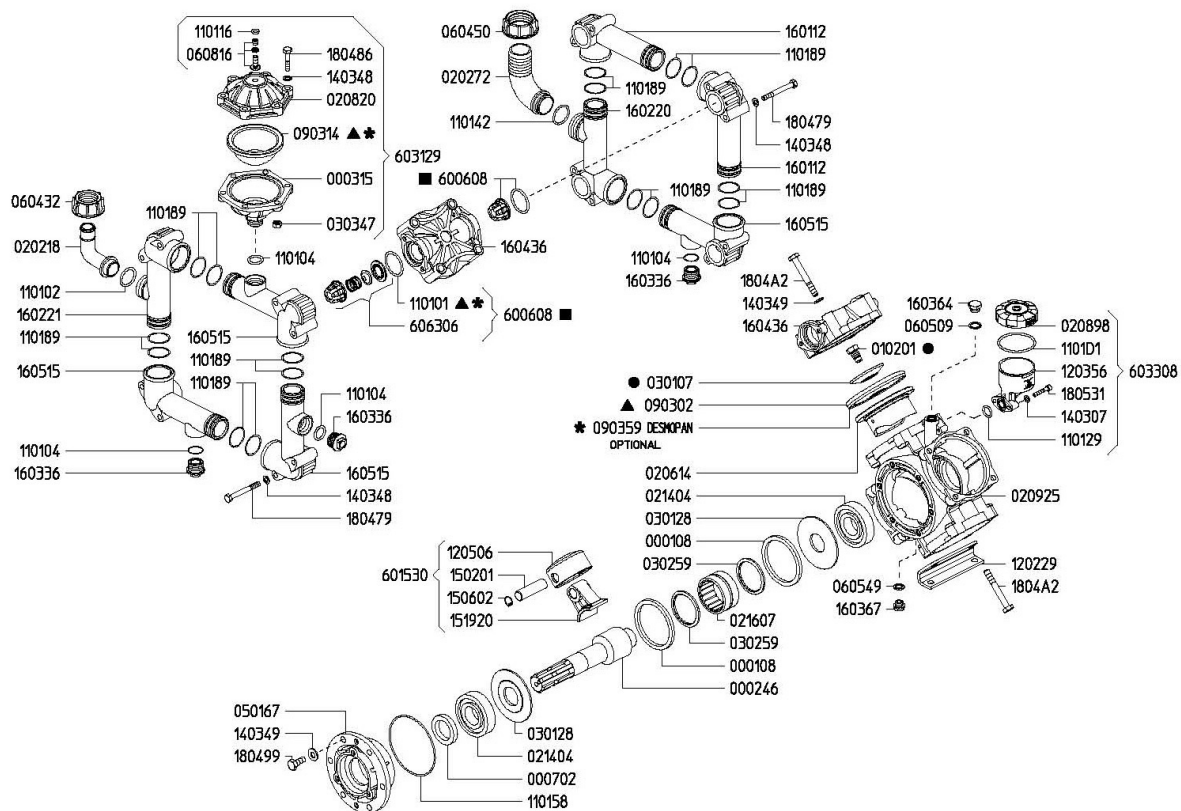
Part No	Description
000102	Retainer Ring "RO 70...130/Zeta"
000263	Shaft "RO 130" (9,2) IC
000315	Pressure Accumulator "RO"
000607	Bushing HK25-26 D.25x32x26
000705	Oil Seal D.35x72x10
010201	Diaphragm Bolt "RO/Kappa 120"
020626	Sleeve D.75 "RO 130"
020820	Accumulator Cover "RO"
020898	Oil Reservoir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

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

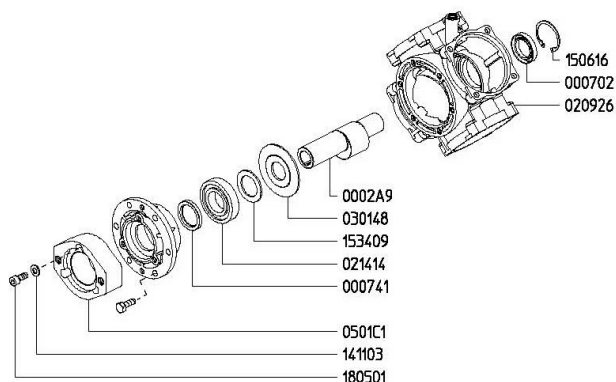
Please note that on pump parts minimum order quantities may apply.

# I 60l/min PUMP BREAKDOWN

## RO 160 1C



## RO 160 MI-1"



## 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	1101DI	O-Ring D.58,42x2,62 (RIF . 3231)
000741	Oil Seal D.40x55x7	120229	Base Plate "RO 160/180"
010201	Diaphragm Bolt "RO/Kappa"	120356	Oil Reservoir
020218	Hose Barb D.25	120506	Aluminium Plunger D.75 "RO/Kappa 120"
020272	Hose Barb D.40	140307	Washer D.6,4x12x1,6
020614	Sleeve D.75 "RO 110/160/250"	140348	Washer D.8,4x16x1,6
020820	Accumulator Cover "RO"	140349	Washer D.10,5x18x1,6
020898	Oil Reservoir Cover	141103	Schnorr Washer D.10
020925	Crankcase "RO 160"	150201	Pin D.18x64
020926	Crankcase "RO 160/180" TS	150602	Snap Ring D.18
021404	Ball Bearing 6307 D.35x80x21	150616	Snap Ring D.55
021414	Ball Bearing D.40x80x18 6208	151920	Connecting Rod "Omega 135/RO 160"
021607	Roller Bearing NK55-35 D.55x68x35	153409	Disc "RO 160/250" MI
030107	Diaphragm Disc "RO/Kappa 120/150"	160112	Inlet-Outlet Hose "RO 160/180"
030128	Rod Disc "RO 160/180/210/250"	160220	Suction Hose G1" 1/2 M "RO 160/180"
030148	Rod Disc "RO 160/250" OMR80	160221	Outlet Hose G1" 1/4 M "RO 160/180"
030259	Rod Spacer "RO 160/250"	160336	Plug G3/4
030347	Hexagonal Nut M8x8 UNI5587	160364	Brass Plug G3/8
050167	Bushing Flange "Omega 135/RO 160/250"	160367	AVP Plug G1/4
0501CI	Flange "RO 160/250" MI	160436	Head "RO 110...250" RED
060432	Plastic Nut G1" 1/4	160515	Inlet-Outlet Hose G3/4 F "RO 160/180"
060450	Plastic Nut G1" 1/2	180479	Hex Screw M8x70 UNI5737 DACROMET
060509	Gasket D.17x22x1,5	180486	Hex Screw M8x40 UNI5737 DACROMET
060549	Gasket D.13x19x1,5	180499	Hex Screw M10x25 UNI5739 DACROMET
060816	Air Valve Assembly	1804A2	Hex Screw M10x75 UNI5737 DACROMET
090302	Piston Diaphragm "RO70...250" D.116	180501	Allen Screw M10x25 UNI5931
090314	Accumulator Diaphragm "Kappa/RO"	180531	Allen Screw M6x30 UNI5931 DACROMET
090359	Piston Diaphragm "Kappa 120/150" D.115,4	600608	Valve Assy "RO/Omega/Beta"
110101	O-Ring D.39,69x3,53 (RIF . 144)	601530	Rod Assy "RO 160/180" D.75
110102	O-Ring D.29,75x3,53 (RIF . 4118)	603129	Press. Accumulator Assy "RO"
110104	O-Ring D.20,63x2,62 (RIF . 128)	603308	Oil Reservoir Assy "RO"
110116	O-Ring D.6,00x3 (RIF . 1263)	606306	Valve Assy "RO 70...250" W/T O-Ring

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

# CHAPTER 3

## FLUSH TANK

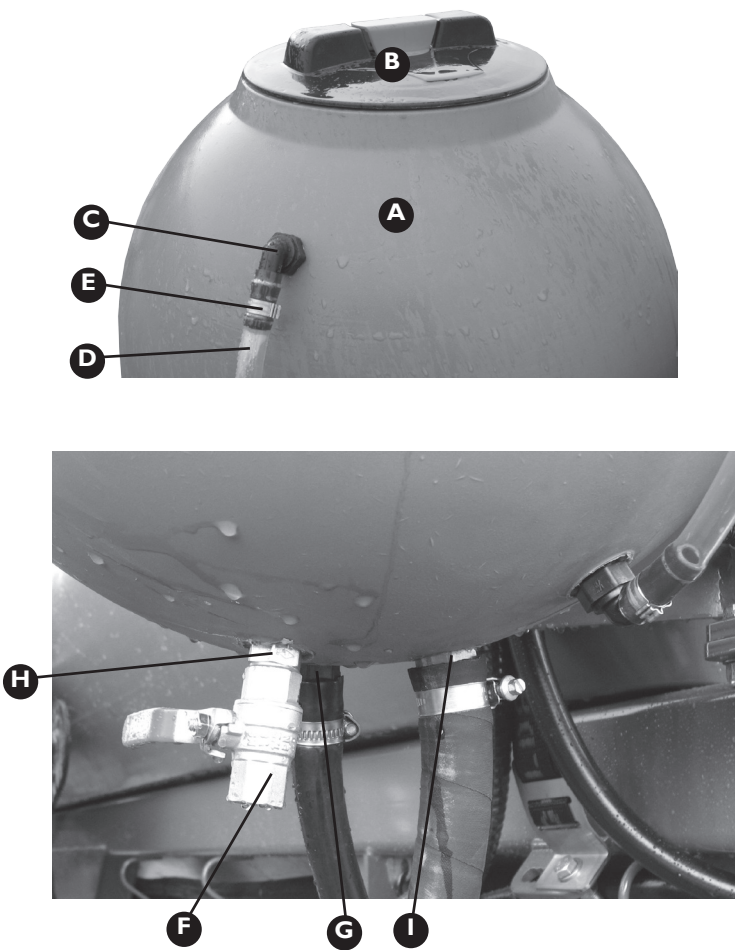


180L Flush Tank Components. . . . . 3-2

Flush Tank Frame. . . . . 3-3

Rev 00 27/8/09

FLUSH TANK COMPONENTS



Kit Part No GA4903085

Item	Part No	Description	Quantity
A	GA5045165	180L Flush Tank	1
B-1	352022	Tank Lid	1
B-2	300110	Basket Filter D.204	1
C	HB050-90	1/2" Hose Barb Elbow	2
D	HOS12SIGHT	12mm Sight Tube	1200mm

Item	Part No	Description	Quantity
E	GA5007225	12/8 Cobra Clamp	2
F	GA5018309	1/2" Ball Valve	1
G	HB050/075	1/2" x 3/4" Hose Barb	1
H	GA5048310	1/2" Brass Nipple	1
I	BFP3-1608	1/2" x 1" Hose Barb	1



# FLUSH TANK FRAME



Item	Part No	Description	Quantity
A	GA4654355	Foam Marker Tank Frame	1
B-1	GA5011277	M16 x 127mm x 110mm U Bolt	2
B-2	GA5001029	M16 Nyloc Nut	4
B-3	GA5001043	16mm Washer	4

## FLUSH TANKS



# CHAPTER 5

## LIQUID CONTROLS

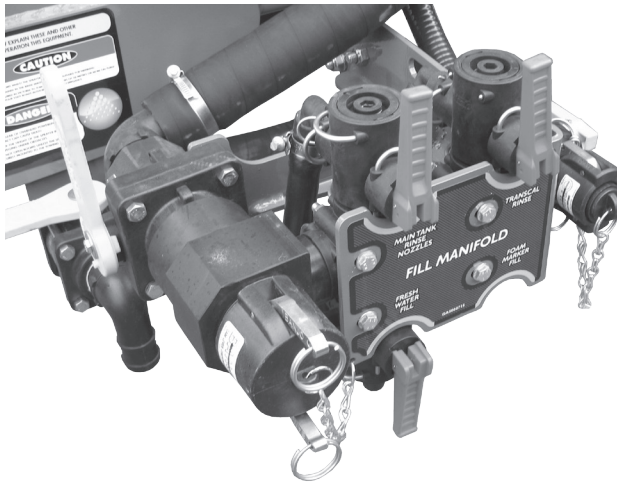


Pressure Manifold . . . . . 5-2

Fill Manifold . . . . . 5-3

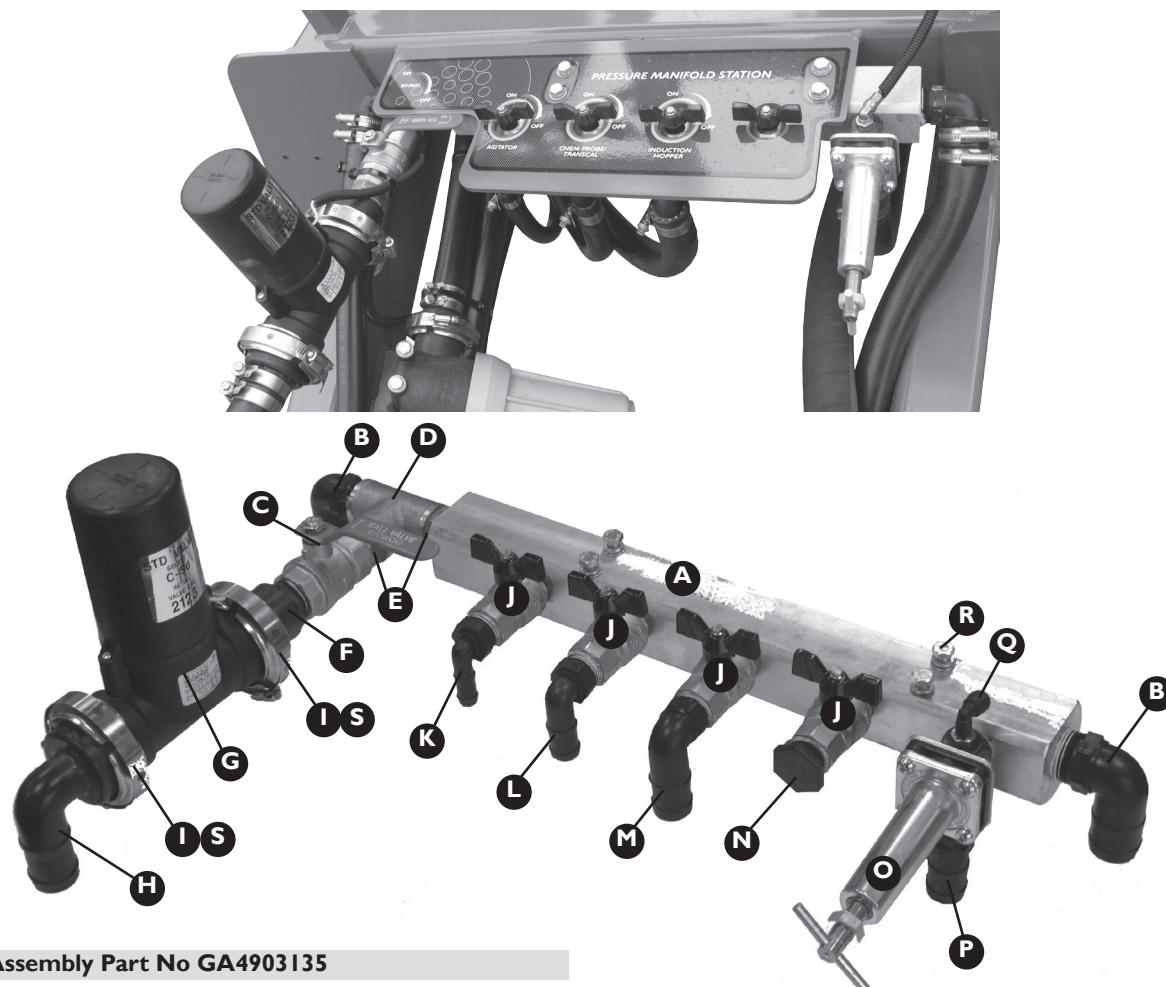
Pre-Assembled Chem Probe . . . . . 5-4

Pre-Assembled Foam Filter . . . . . 5-4



Rev 00 27/8/09

## PRESSURE MANIFOLD



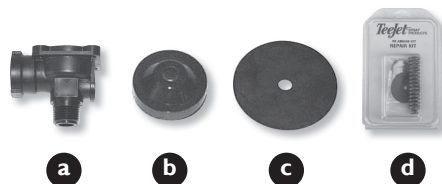
### Assembly Part No GA4903135

Item	Part No	Description	Quantity
A	L069A	Manifold	1
B	HB100/125-90	1" x 1 1/4" Poly Elbow	2
C	GA5018319	25mm Ball Valve	1
D	GA5016543	1" Cast Tee	1
E	BF027-16	1" Brass Nipple	2
F	M200PLG100	2 Std Flange with 1" Thread	1
G	0630171894	1 1/2" Raven Control Valve	1
H	M200125BRB90	2 Std Flange with 1 1/4" poly elbow	1
I	FC200	200 Series Screw Clamp	2
J	GA5018315	20mm Ball Valve	4

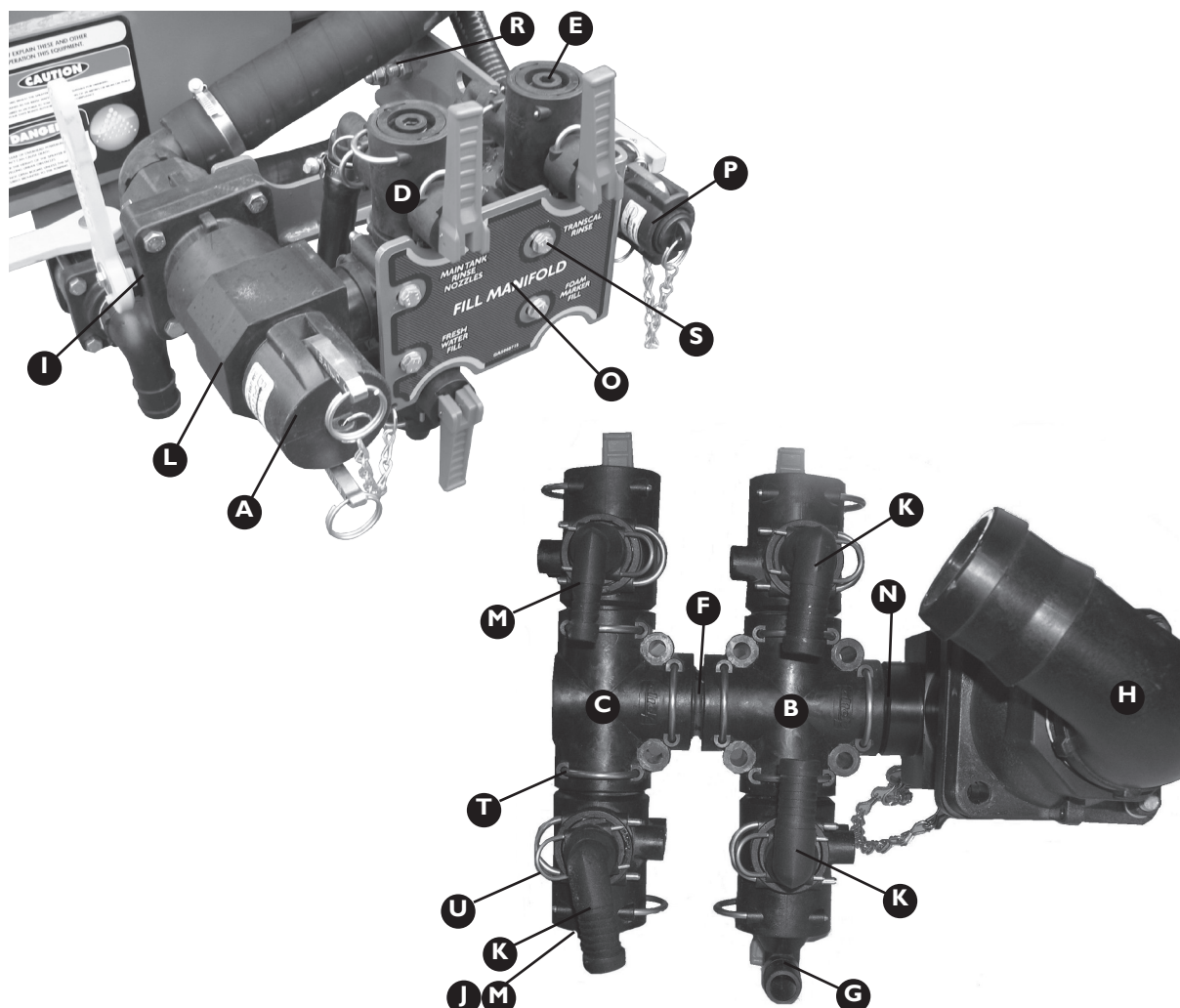
Item	Part No	Description	Quantity
K	HB075/050-90	3/4" x 1/2" Poly Elbow	1
L	HB075-90	3/4" Poly Elbow	1
M	HB075/100-90	3/4" x 1" Poly Elbow	1
N	GA5002475	3/4" Plug	1
O	8460-3/4-300	Pressure Relief Valve *	1
P	HB075/100	3/4" x 1" Hose Barb	1
Q	GA5016233	6mm Swivel Elbow	1
R-1	GA5004701	M8 x 20mm	4
R-2	GA5003643	8mm Washer	4
S	GA5009335	Flange Gasket	2

### Pressure Relief Valve Replacement Parts

Item	Part No	Description
a	CP8361-3/4	Body
b	CP8364-NYB	Seat
c	CP8366-FA	Diaphragm
d	PKAB8460-KIT	Repair Kit



# FILL MANIFOLD



## Assembly Part No GA4903137

Item	Part No	Description	Quantity
A	200CAP	2" Cam Lock Cap	1
B	GA5065565	AS40 Cross Piece	1
C	GA5065560	AS40 Tee Piece	1
D	GA5065545	Altek Flip Valve	4
E	GA5065680	AS40 Blind Cap	2
F	GA5065735	AS40/AS40 Hosetail	1
G	GA5065610	AS40/20 Plug in Elbow	1
H	HB200-90	2" Poly Elbow	1
I	VSMT204FP	2" Ball Valve	1
J	GA5065605	AS40/AS24 Male Coupler	1
K	GA5065675	AS24/20 Plug in Elbow	3
L	GA4582295	2" Fill Cam Lock Fitting suit	1
		Prairie Special	1

Item	Part No	Description	Quantity
M	GA5065750	AS24/15 Female Elbow	2
N	GA5065600	AS40/1" Male Fitting	1
O	GA4656485	Fill Manifold Mounting Bracket	1
P	GA4903082	Pre-Assembled Chem Probe <sup>#</sup>	1
Q	GA4903139	Pre-Assembled Foam Filter <sup>*#</sup>	1
R-1	GA5011231	M12 x 35mm Bolt	3
R-2	GA5012461	M12 Nyloc Nut	3
R-3	GA5000577	12mm Washer	6
S-1	GA5011495	M8 x 90mm Bolt	4
S-2	GA5004917	M8 Nyloc Nut	4
S-3	GA5003643	8mm Washer	8
T	GA5065690	Large Retainer Clip (AS40)	10
U	GA5065695	Small Retainer Clip (AS24)	4

\* Hidden from view at rear of manifold

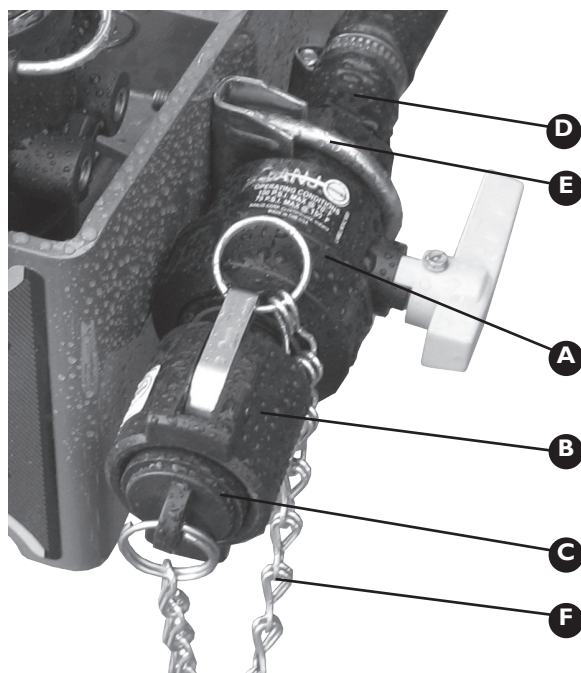
<sup>#</sup> Refer to next page

Note: Quantities of some components may change depending on sprayer options

## PREASSEMBLED CHEM PROBE

### Assembly Part No GA4903082

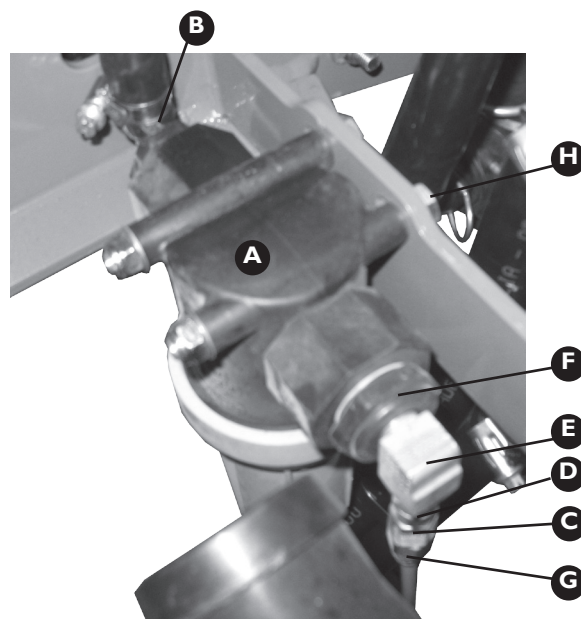
Item	Part No	Description	Quantity
A	UV100FP	1" Ball Valve	1
B	I00B	Camlock with 1" Male Thread	1
C	I00PL	1" Camlock Plug	1
D	HB100	1" Hose Barb	1
E-1	GA5006705	2 1/16" Exhaust Clamp	1
E-2	GA5004917	M8 Nyloc Nut	2
E-3	GA5004883	8mm Washer	2
F	GA5001491	Chain	300mm



## PREASSEMBLED FOAM FILTER

### Assembly Part No GA4903135

Item	Part No	Description	Quantity
A	AA126ML-3-80	3/4" Self Cleaning Filter with 80 Mesh Screen*	1
B	HB075/050-90	3/4" x 1/2" Poly Elbow	1
C	GA5018147	1/8" Check Valve	1
D	GA5013809	1/4" x 1/8" Reducing Nipple	1
E	GA5050780	1/4" Cast Elbow	1
F	RB075-025	3/4" x 1/4" Poly Reducing Bush	1
G	GA5050210	1/8" x 6mm Hydrostatic Fitting	1
H-1	GA5011495	M8 x 90mm Bolt	2
H-2	GA5004917	M8 Nyloc Nut	2
H-3	GA5003643	8mm Washer	4



\* Refer to Chapter 19 for replacement screens

# CHAPTER 8

## INDUCTION HOPPER



Hopper Frame Components . . . . . 8-2

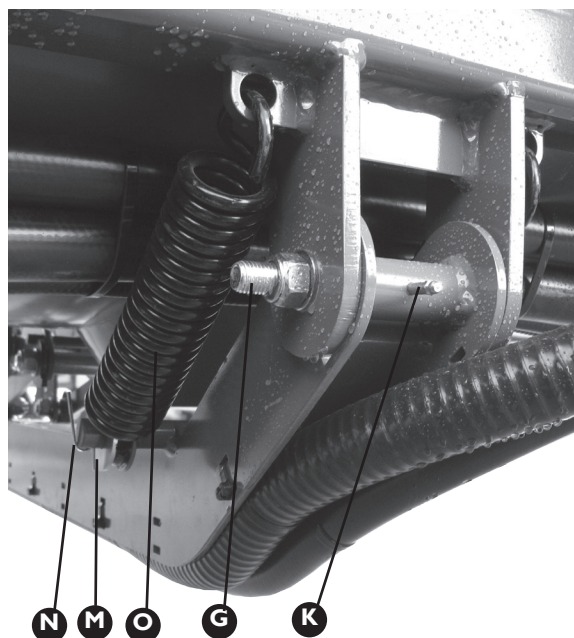
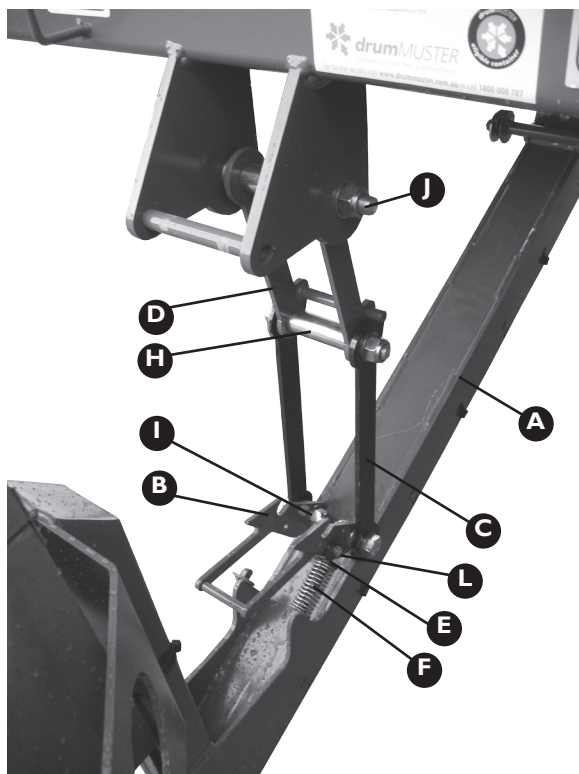
Hopper Tank Components . . . . . 8-3

Hopper Bottom Components . . . . . 8-4

Rev 01 6/1/10



## HOPPER FRAME COMPONENTS

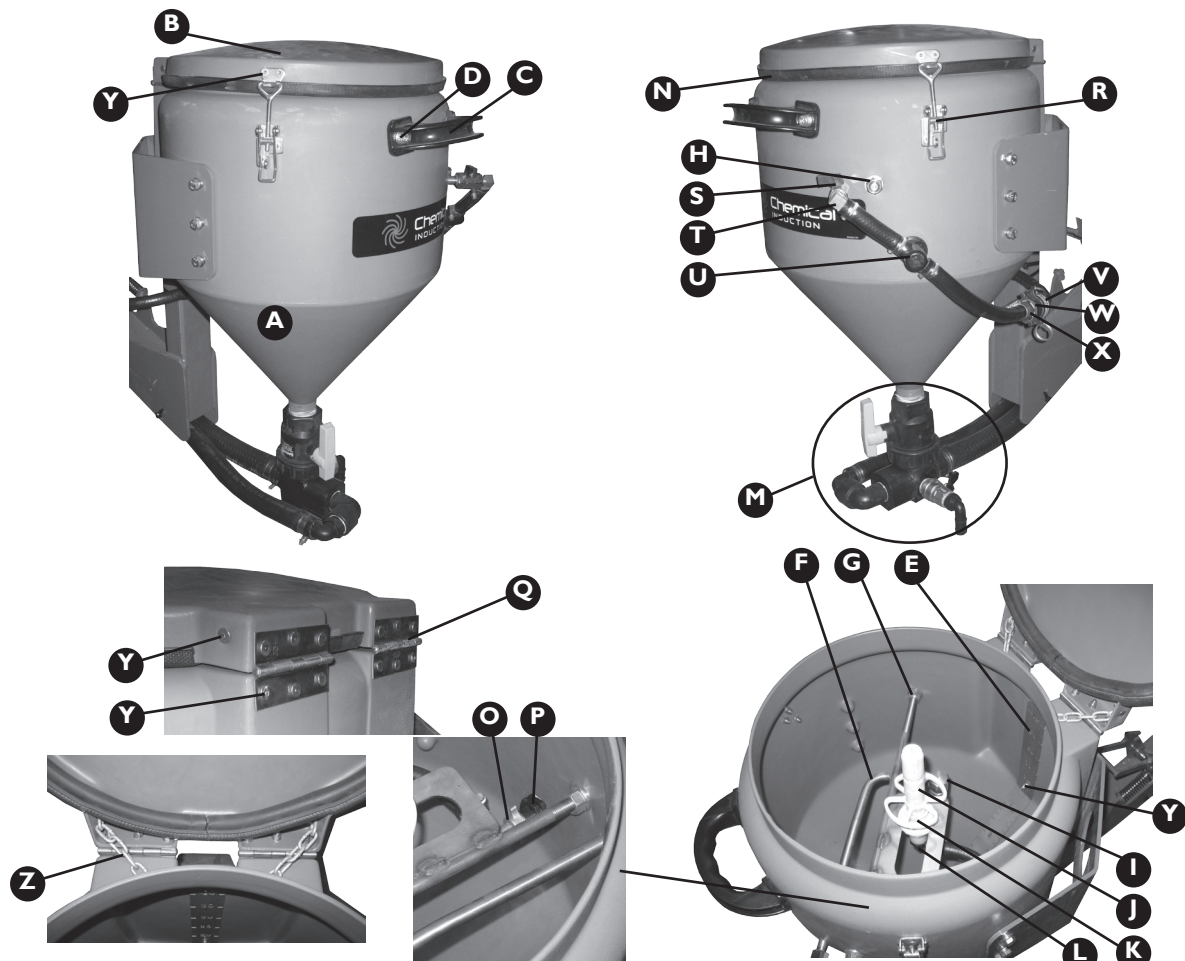


### Assembly Part No GA4903046

Item	Part No	Description	Quantity
A	GA4653460	Induction Hopper Arm	1
B	GA4653495	Induction Hopper Catch	1
C	I000-H002LAS	Lower Catch Plate	2
D	GA4653505	Hopper Stay Arm	1
E	GA4653515	Spring Holder	1
F	GA5007327	Hopper Catch Spring	1
G-1	GA5000869	M16 x 150mm Bolt	1
G-2	GA5001029	M16 Nyloc Nut	1
G-3	GA5001009	16mm Washer	6
H-1	GA5000859	M16 x 130mm Bolt	1
H-2	GA5001029	M16 Nyloc Nut	1
H-3	GA5001009	16mm Washer	4
I-1	GA5000931	M16 x 50mm Bolt	2
I-2	GA5001029	M16 Nyloc Nut	2

Item	Part No	Description	Quantity
I-3	GA5001009	16mm Washer	6
J-1	GA5000871	M16 x 160mm Bolt	1
J-2	GA5001029	M16 Nyloc Nut	1
J-3	I000-H019	Crush Tube	2
J-4	I000-H020	Crush Tube	2
J-5	GA5001009	16mm Washer	9
K	GA5009639	1/4" UNF Grease Nipple	1
L-1	GA5004073	M6 x 25mm Bolt	1
L-2	GA5048115	M6 Nyloc Nut	1
L-3	GA5004349	6mm Washer	3
M	GA4532831	Large Washer	2
N	GA5015689	Split Pin	2
O	GA5016605	Tension Spring	2

# HOPPER TANK COMPONENTS



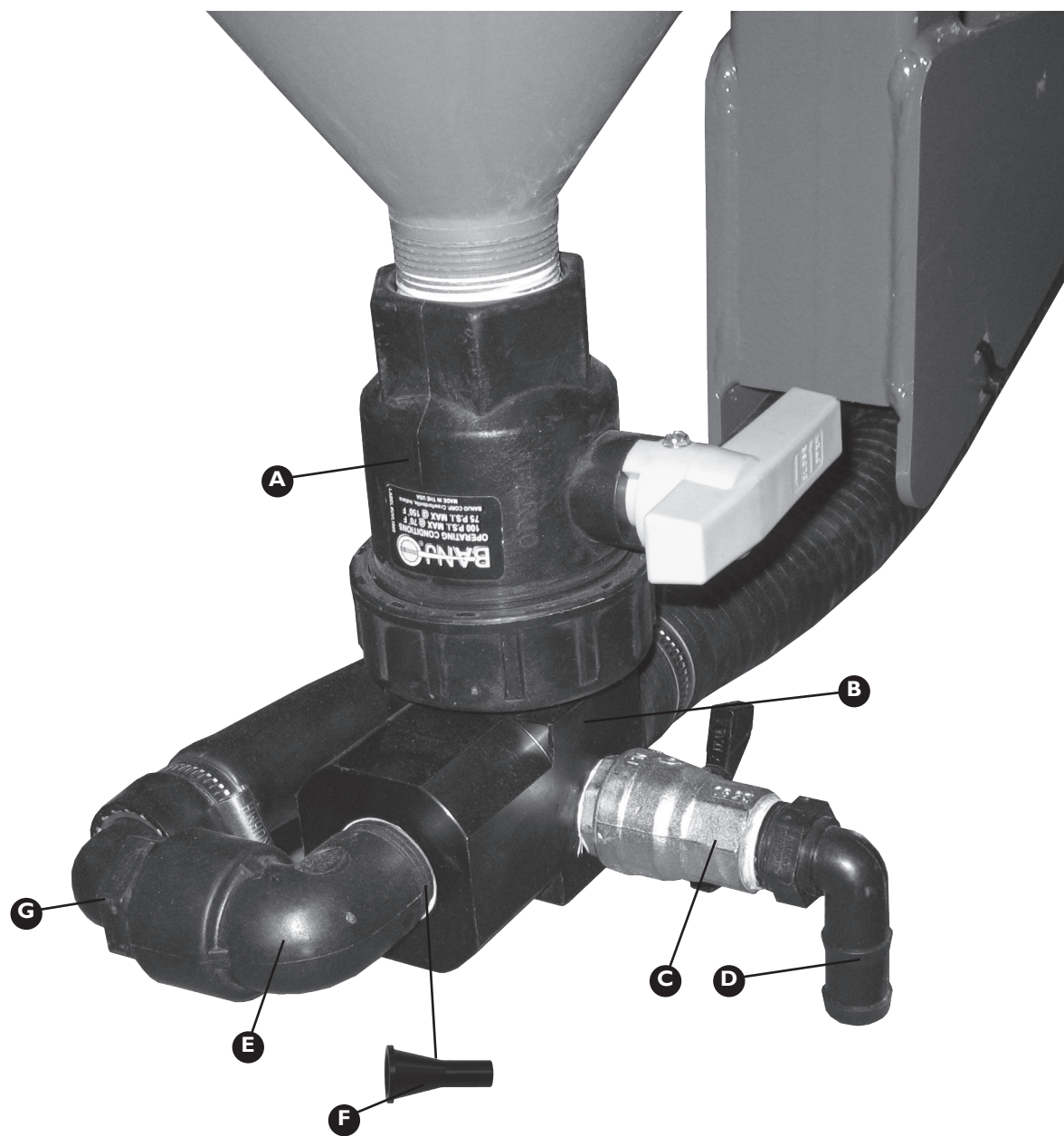
## Assembly Part No GA4903111

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	510110	1/2" Rinse Nozzle Head	1
K	510100	Push Down Valve	1
L	HB050-90	1/2" Poly Elbow	1
M	GA4903105	Induction Hopper Bottom*	1
N	GA5012981	Hopper Seal	1.24m

\* Refer to next page

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	50C	1/2" Female Coupler	1
W	75A	3/4" Male Coupler	1
X	HB075-050	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

HOPPER BOTTOM COMPONENTS



Assembly Part No: GA4903105

Item	Part No	Description	Quantity
A	UV150FP	1 1/2" Ball Valve	1
B	L056A	Hopper Venturi Housing	1
C	GA5018315	20mm Ball Valve	1
D	HB075-90	3/4" Poly Elbow	1

Item	Part No	Description	Quantity
E-I	SL100-90	1" Threaded Elbow	1
F	L057A*	9mm Hopper Venturi	1
G	HB100-90	1" Poly Elbow	1

\* Located between Items E & B, 7mm Venturi also available Part No. GA4572150



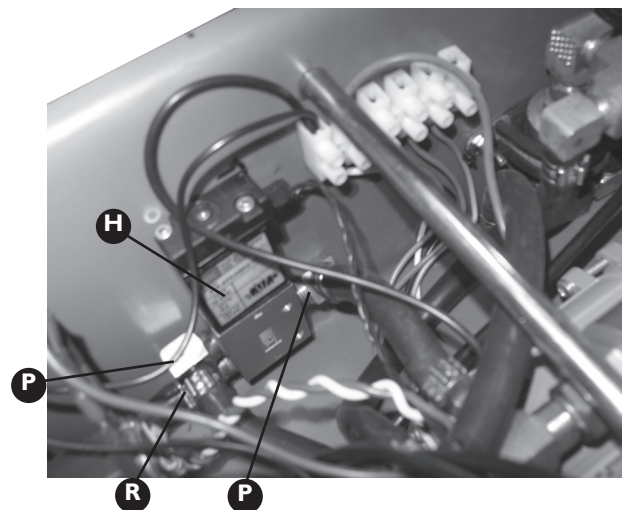
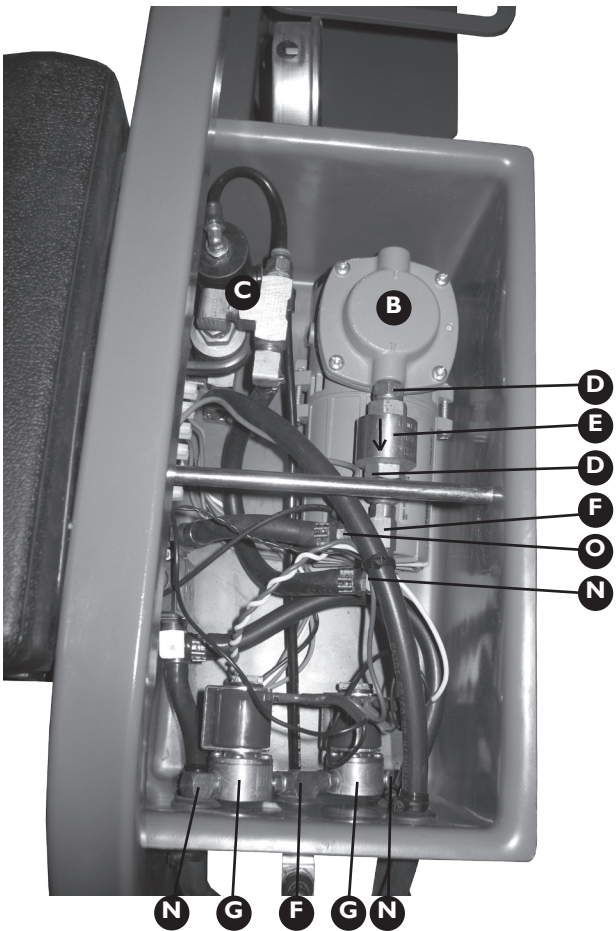
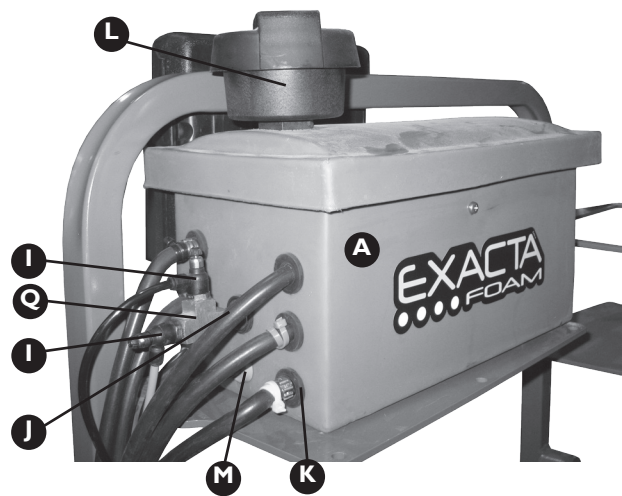
# CHAPTER 9

## FOAM MARKER



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

FOAM MARKER BOX COMPONENTS



Assembly Part No GA5018808

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

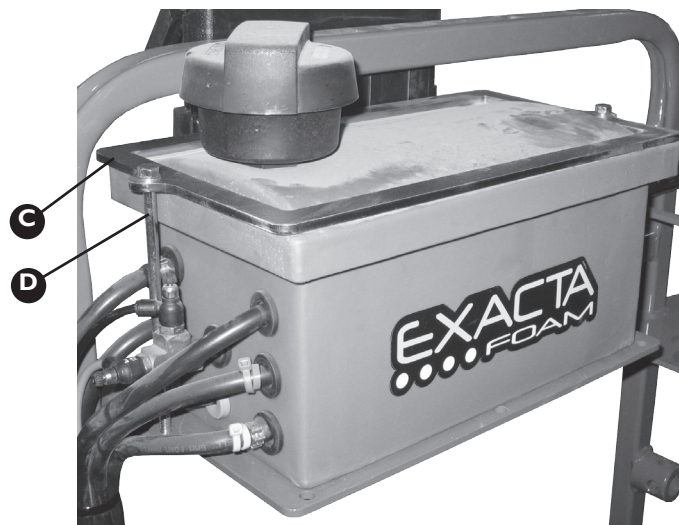
Item	Part No	Description	Quantity
J	GA5013809	1/4" x 1/8" Reducing Nipple	1
K	GA5012199	29mm Neoprene Grommet	7
L	GA5005259	1" Air Filter <sup>#3</sup>	1
M	GA5017703	19x5mm Grommet	1
N	GA5066950	1/4" x 1/8" Brass Elbow	3
O	GA5066945	1/4" x 1/8" Hose Barb	1
P	GA5048340	1/4" Brass Elbow	2
Q	GA5048300	1/4" Female Tee	1
R	GA5020540	1/4" Brass Hose Barb	1

<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

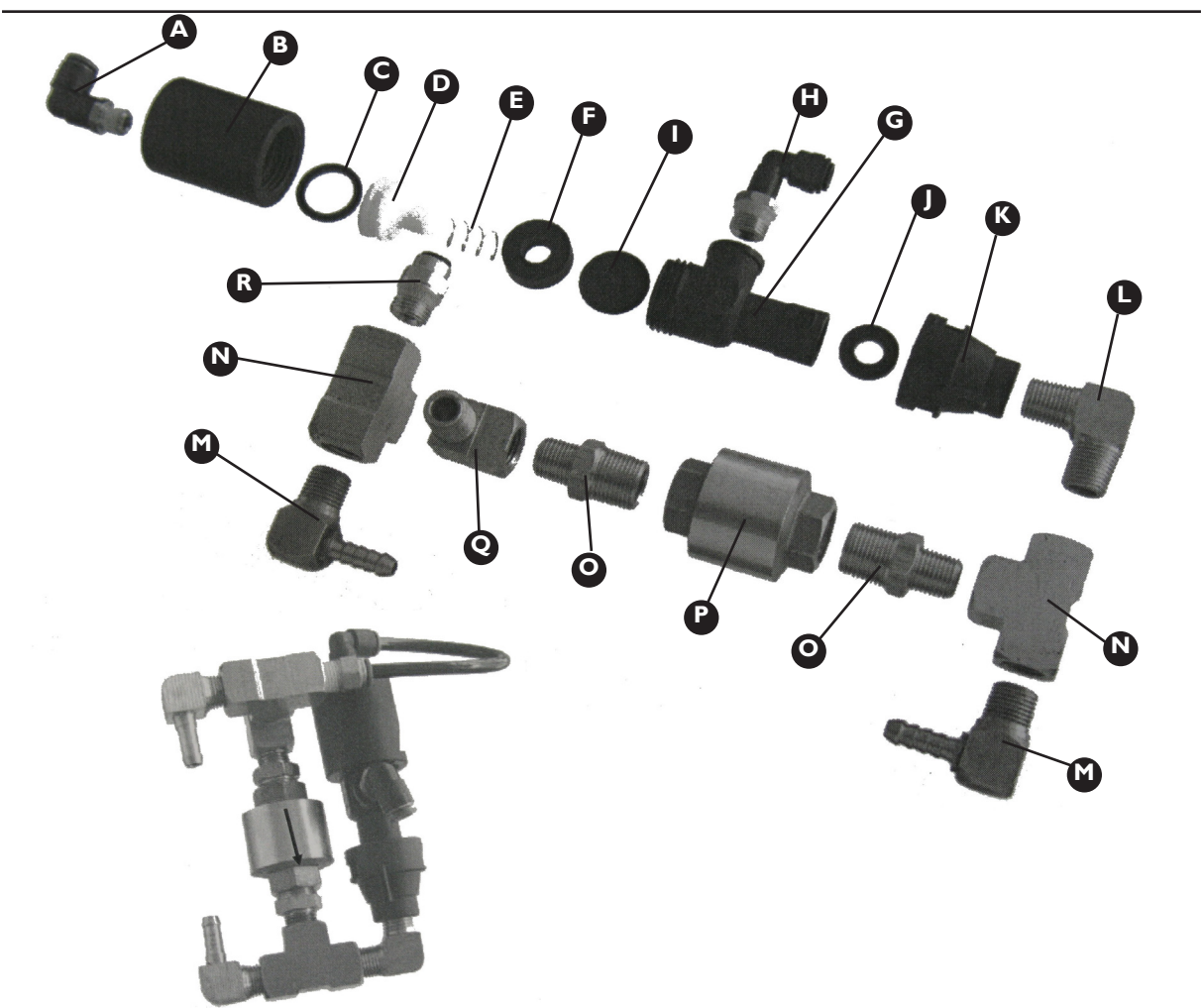
## FOAM MARKER BOX COMPONENTS CONT.



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

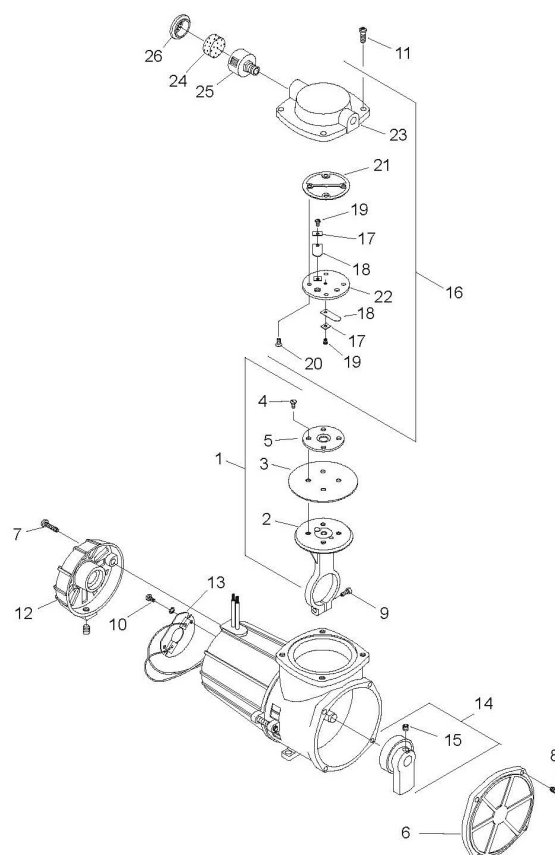
FOAM MARKER EXHAUST VALVE



Assembly Part No GA4912005			
Item	Part No	Description	Quantity
A	GA5045145	6mm x 1/8 BSPT Elbow	1
B	GA4572000	Chemsaver Body	1
C	CP50676-V1	Cup Seal	1
D	GA4572005	Chemsaver Piston	1
E	GA5045090	Spring 14.2 x 14	1
F	GA4572010	Chemsaver Washer	1
G	005860036	Diaphragm Nozzle Body	1
H	GA5016233	6mm x 1/4 BSP Swivel	1
I	QJ8355-1/4-NYR	Diaphragm	1

Item	Part No	Description	Quantity
J	402200040	Cap Seal	1
K	QJ4676-1/4-NYR	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

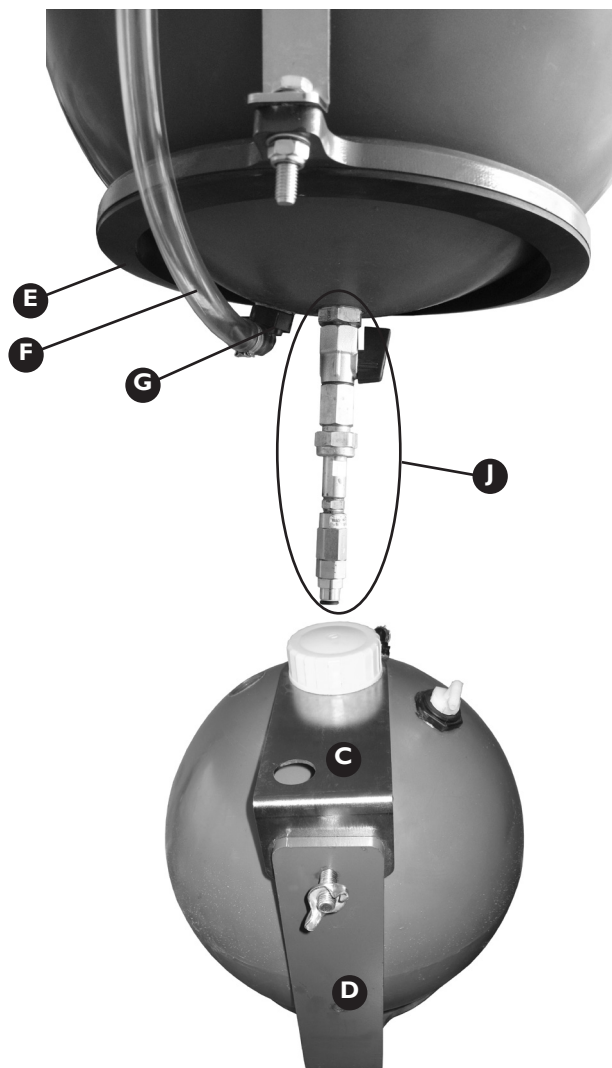
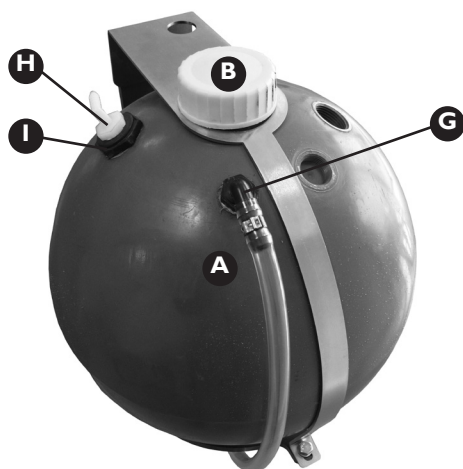
Item	Part No	Description	Quantity
1	607180	Connecting Rod Assembly	1
2	607139	Connecting Rod	1
3	608148	Diaphragm	1
4	625540	Screw - Hold Down Plate	4
5	654649	Hold Down Plate	1
6	614608	Front Cover	1
7	614608	Screw - Motor End Cap	2
8	625660	Screw - Front Cover	4
9	625114	Conn Rod. Screw	1
10	625476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

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

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



## FOAM CONCENTRATE TANK

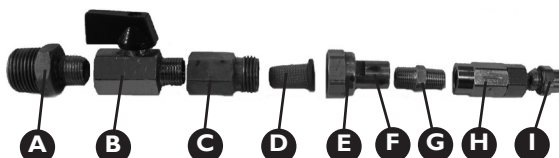


Item	Part No	Description	Quantity
A	GA4901038	Foam Concentrate Tank, 25L	1
B-1	GA5009157	Cap suit exacta tank	1
B-2	GA5009187	O-ring suit cap	1
C	F70622A	Inject bottle Strap	1
D	F70609A	Bottle Mount	1
E	GA5010085	Hollow Rectangular Rubber 691mm	
F	HOS12SIGHT	12mm sight tube	
G	HB050-90	1/2" Poly Elbow	2
H	EL1214	1/2" x 1/4" Elbow	1
I	RB100050	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)**

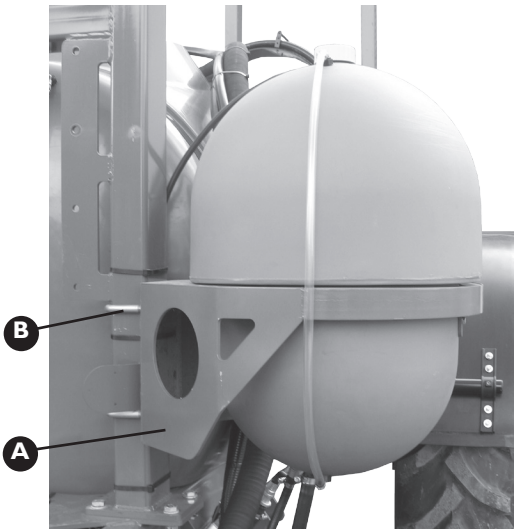
Item	Part No	Description	Quantity
A	GA5012259	Reducing Nipple	1
B	GA5017405	Ball Valve	1
C	CPI321	Brass Nozzle Body	1
D	8079-PP-200	200 Mesh Strainer (Orange)	1
E	CPI325	Brass Cap	1
F	CP4928	Brass Adapter	1
G	GA5066935	1/8" Brass Nipple	1
H	GA5018147	1/8" Check Valve	1
I	GA5050210	6mm x 1/8" Fitting	1



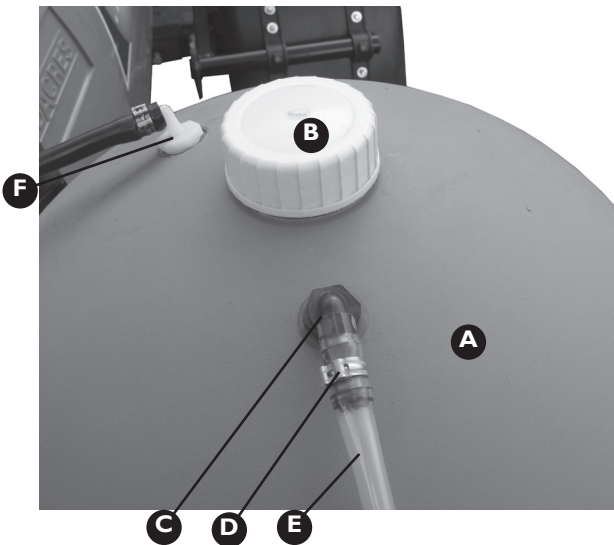


EXACTA FOAM MARKER TANK MOUNT

Item	Part No	Description	Quantity
A	GA4654355	Foam Marker Tank Frame	1
B-1	GA5011277	M16 x 127mm x 110mm U-Bolt	2
B-2	GA5001029	M16 Nyloc Nut	4
B-3	GA5001043	16mm Washer	4

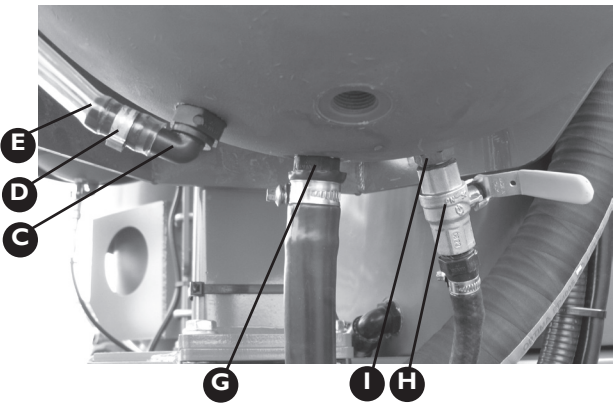


EXACTA FOAM MARKER TANK



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	HB050-90	1/2" Poly Elbow	2
D	GA5007225	1/2" Cobra Clamp	2



Item	Part No	Description	Quantity
E	HOS12SIGHT	12mm Sight Tube	1000mm
F	EL1214	1/2" x 1/4" Elbow	1
G	HB050/075	1/2" x 3/4" Hose Barb	1
H	GA5018309	12mm Ball Valve	1
I	GA5048310	1/2" Brass Nipple	1

FOAM MARKER

# CHAPTER 10

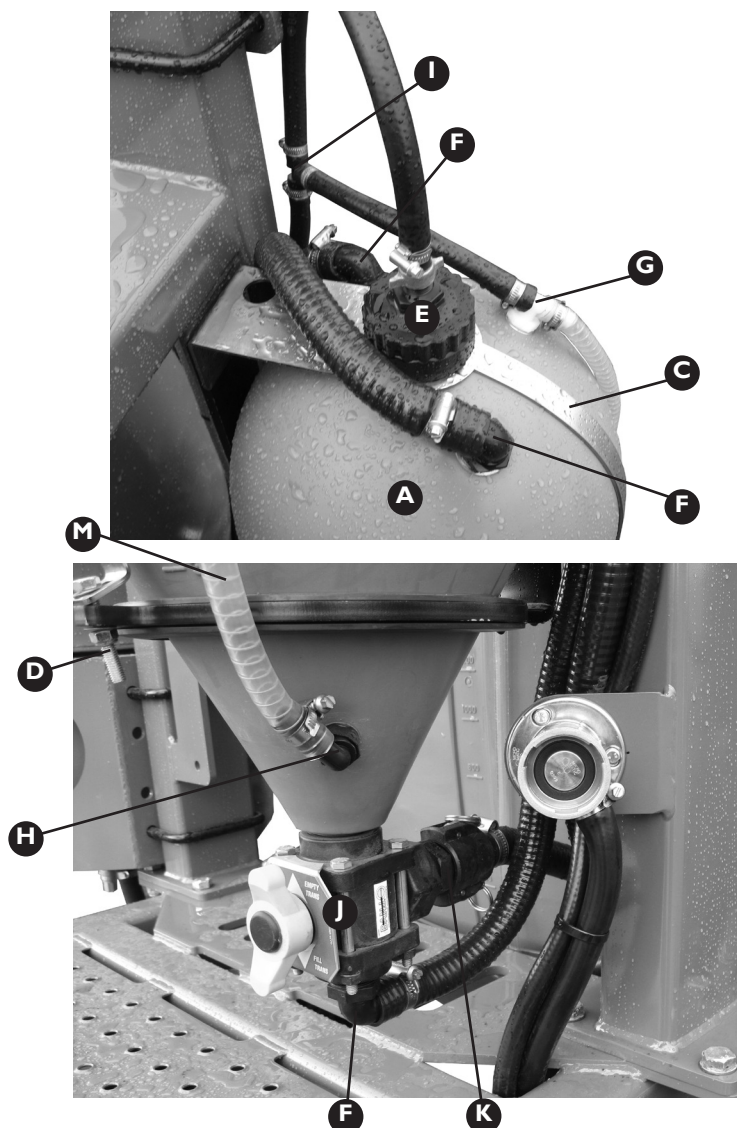
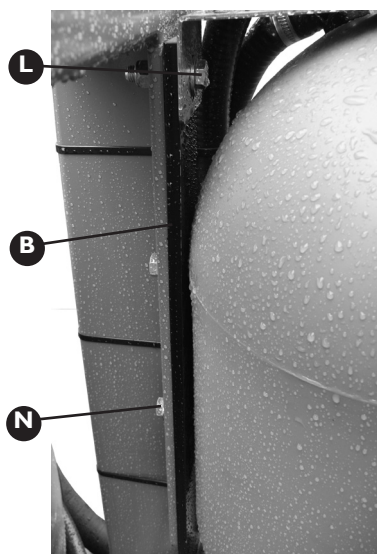
## TRANSCAL



Transcal Tank Components.....	10-2
Enviro Rinse Coupling.....	10-3
Transcal Cap Assembly.....	10-3

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# TRANSCAL TANK COMPONENTS



## Assembly Part No GA4903108

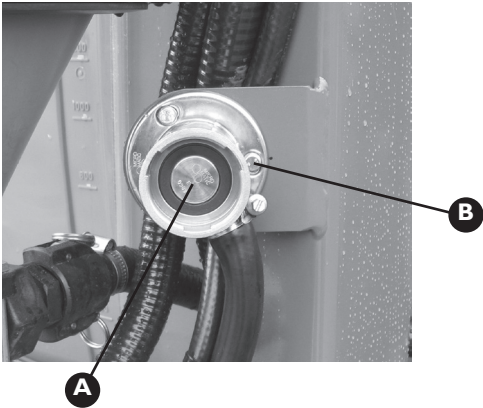
Item	Part No	Description	Quantity
A	GA4901047	45L Transcal Tank	1
B	F70608A	Transcal Mounting Bracket	1
C	F70623A	Bottle Strap 3mm	1
D-1	GA5004737	M8 x 70mm Bolt	1
D-2	GA5004917	M8 Nyloc Nut	1
D-3	GA5004883	8mm Washer	2
E	GA4903050	Pre-Assembly Transcal Cap	1
F	HB100-90	1" Poly Elbow	3
G-1	TI2T	1/2" Tee with Thread	1
G-2	GA5020695	1/8" Brass Nipple*	1
H	HB050-90	1/2" Poly Elbow	1

Item	Part No	Description	Quantity
I	TI2	1/2" Tee	1
J	VI00BL	1" 3 Way Ball Valve	1
K	I00F	1" Male Adapter, Male Thread	1
L-1	GA5000305	M12 x 50mm Bolt	1
L-2	GA5012461	M12 Nyloc Nut	1
L-3	GA5000577	12mm Washer	2
M	HOS12WSIGHT	1/2" Sight Tube	720mm
N-1	GA5006113	M10 x 20mm Bolt	2
N-2	GA5000117	10mm Washer	2
N-3	GA5000137	10mm Spring Washer	2
O	GA5010085	Retangular Hollow Rubber 0.9m	

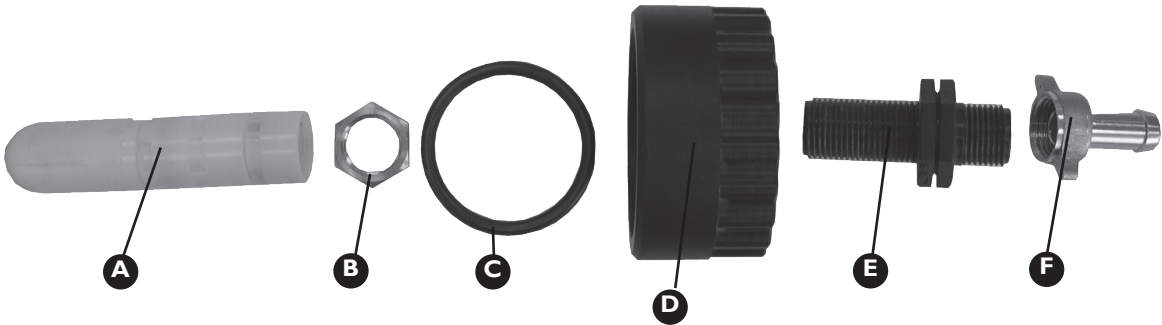
\* Note: Barb removed from item to act as restricter

# 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	510110	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



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Tank Sump Fittings . . . . . 11-3

Sump Drain. . . . . 11-4

Sump Drain Hose Valve. . . . . 11-4

Supermix Agitator. . . . . 11-5

Tank Top Fittings . . . . . 11-6

Tank Flush Nozzle (Elbow). . . . . 11-7

Tank Flush Nozzle (Tee). . . . . 11-7

Venturi. . . . . 11-8

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Sight Tube . . . . . 11-9

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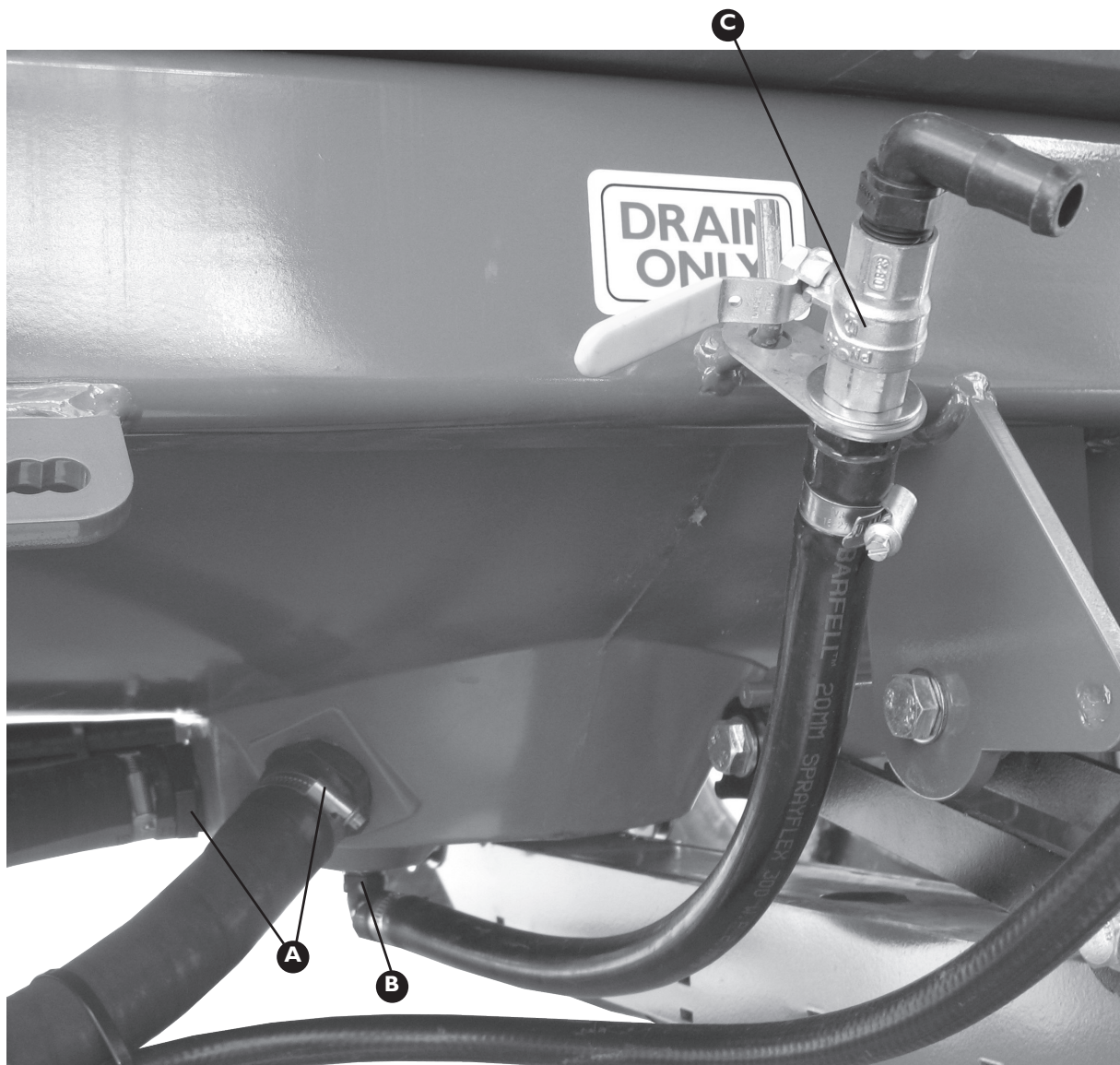
Tank Stops. . . . . 11-10

## TANK



Item	Part No	Description
A	GA5018515	3000L Bare Prairie Special Tank

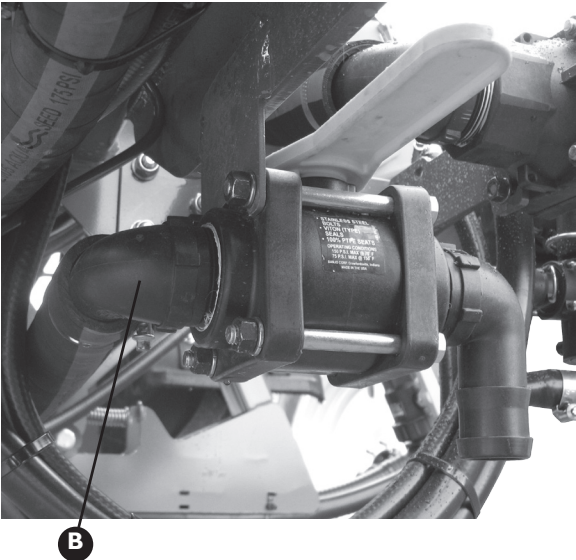
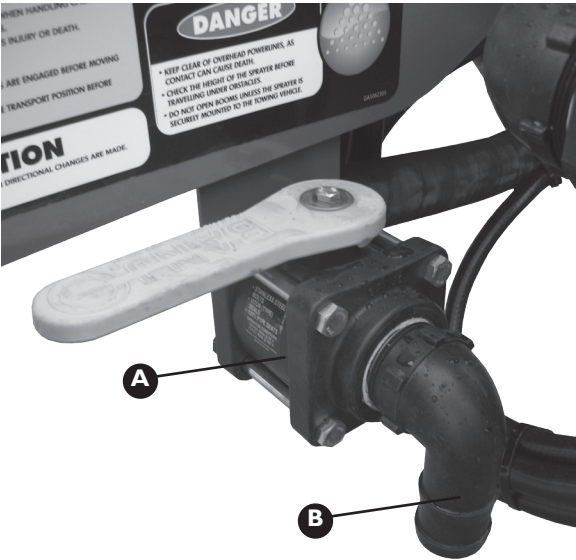
## TANK SUMP FITTINGS



Item	Part No	Description	Quantity
A	HB150	1 1/2" Hose Barb	2
B	HB075-90	3/4" Poly Elbow	1
C	GA4903097	Sump Drain Hose Valve*	1

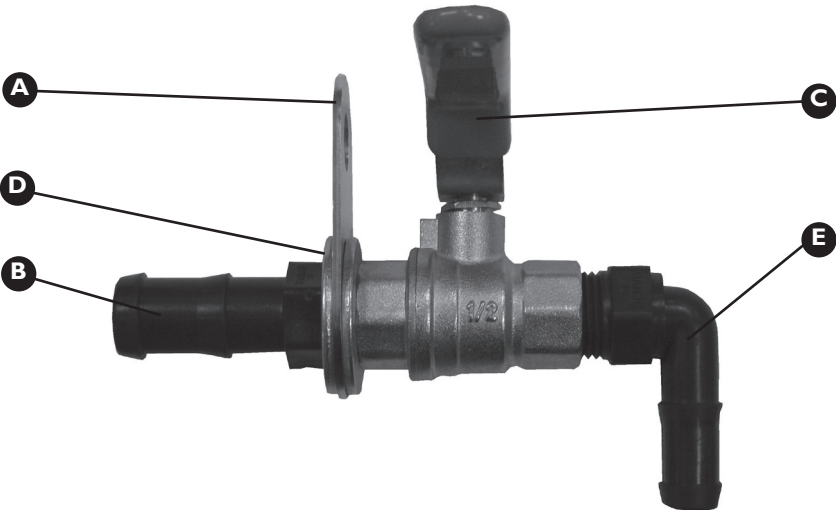
\* Refer to next page

SUMP DRAIN



Assembly Part No GA4903063			
Item	Part No	Description	Quantity
A	VI 50	1 1/2" Ball Valve	1
B	HB150-90	1 1/2" Poly Elbow	2

SUMP DRAIN HOSE VALVE



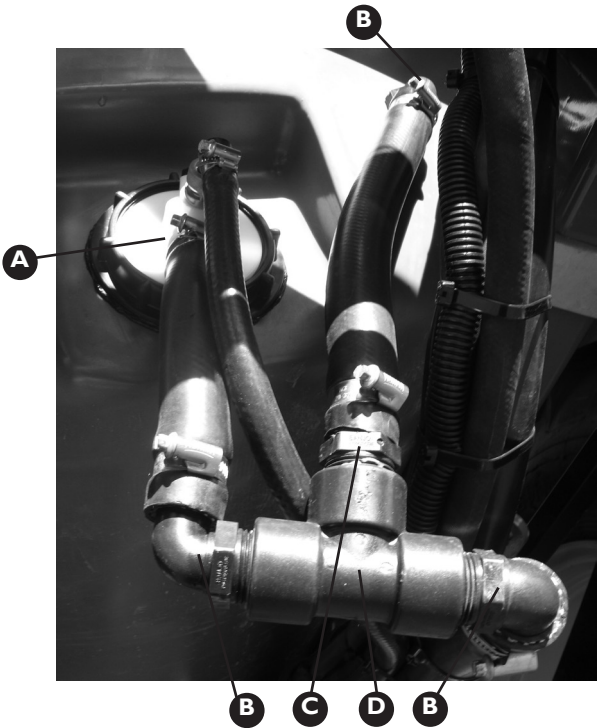
Assembly Part No. GA4903097			
Item	Part No	Description	Quantity
A	F70565A	Stainless Steel Mounting Plate	1
B	HB050-075	1/2" x 3/4" Poly Hose Barb	1
C	GA5018309	Ball Valve	1

Item	Part No	Description	Quantity
D	GA5001741	20mm S/S Washer	2
E	HB050/075-90	1/2" x 3/4" Poly Elbow	1

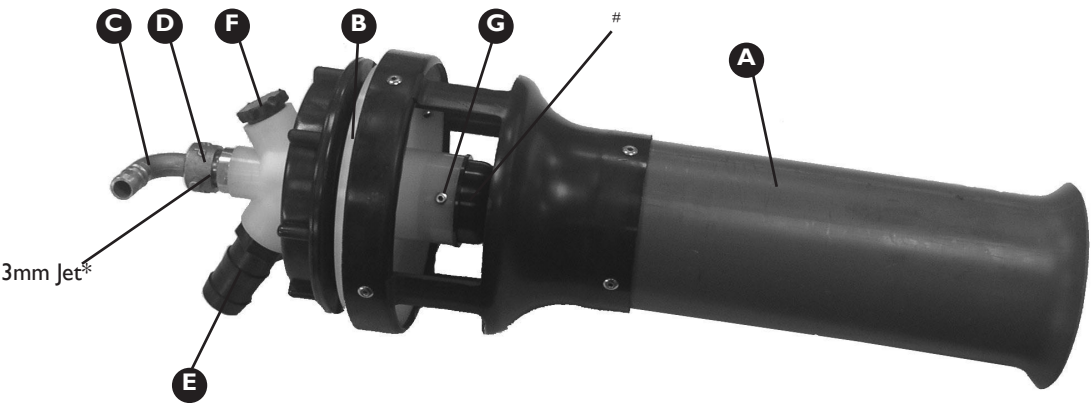


# SUPER MIX AGITATOR

Item	Part No	Description	Quantity
A	GA4903096	Super Mix Agitator Assembly	1
B	HB100-90	1" Poly Elbow	3
C	HB100	1" Hose Barb	1
D	TEE100	1" Female Tee	1



# SUPER MIX AGITATOR ASSEMBLY

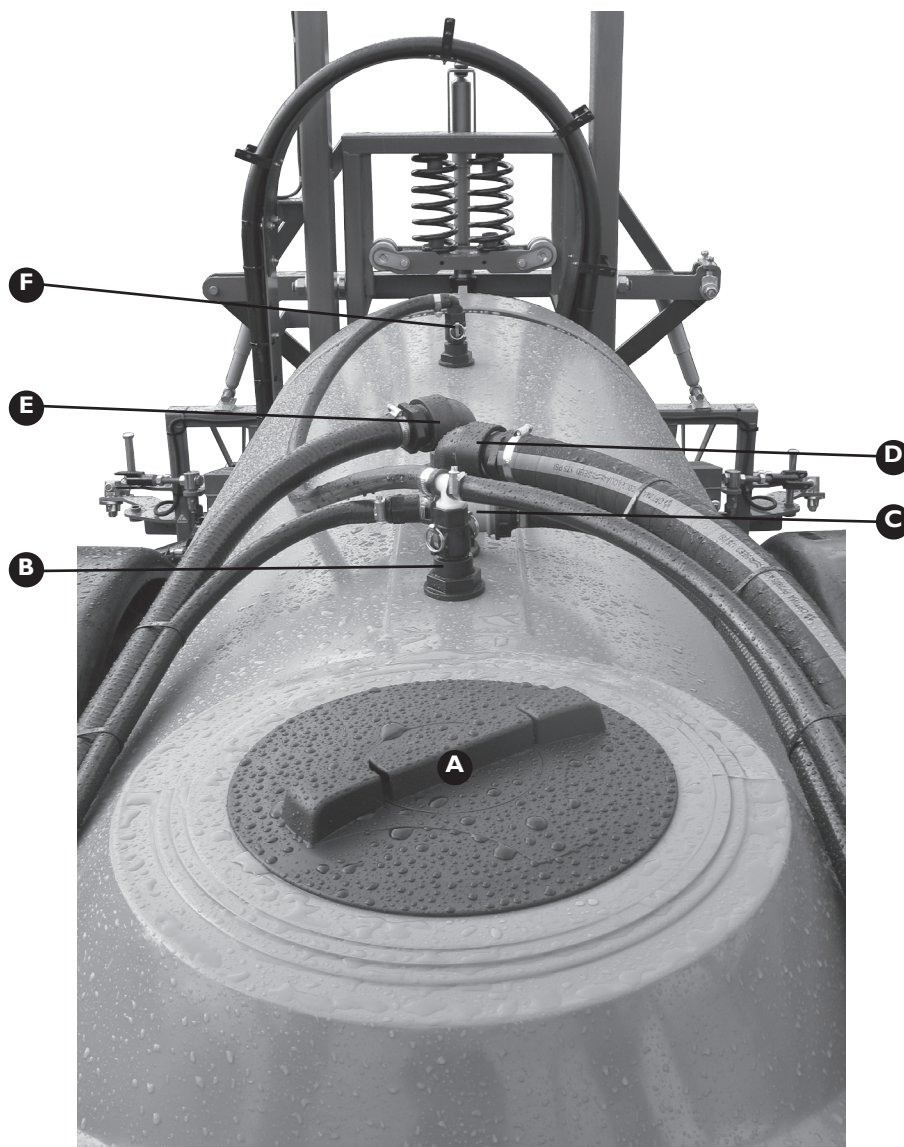


Assembly Part No GA4903096			
Item	Part No	Description	Quantity
A	502054	Agitator Mixer Body	1
B	GA5020050	O-Ring M5 x 100mm	1
C	0065302	1/2" Brass Elbow	1
D	GA5012375	1/2" Nut with O-Ring	1

Item	Part No	Description	Quantity
E	HB075-100	3/4" x 1" Hose Barb	1
F	PLUG050	1/2" Plug	1
G	GA5005117	1/8" x 5/16" Pop Rivet	1

\* Included in mixer body, # Blank venturi fitted standard other sizes available upon request

## TANK TOP FITTINGS



Item	Part No	Description	Quantity
A-1	352040	Tank Lid	1
A-2	300120	Basket Filter	1
B	GA4901285-2	Tank Rinse Nozzle (Tee)*	1
C	GA4903086	Venturi*	1
D	GA4903136	2" Tank Fill*	1
E	GA4903098	Hopper Inlet*	1
F	GA4901285-1	Tank Rinse Nozzle (Elbow)	1

\* Component breakdowns shown on following pages



# TANK FLUSH NOZZLE (ELBOW)



Assembly Part No. GA4901285-1

Item	Part No	Description	Quantity
A	GA4572015	Tank Adapter with Cam Lock	1
B	B55270-3/4-18	Rinse Nozzle	1
C	NIP075-6	3/4" x 6" Poly Nipple	1

Item	Part No	Description	Quantity
D	HB075-90	3/4" Poly Elbow	1
E	75D	3/4" Female Coupler	1

# TANK FLUSH NOZZLE (TEE)

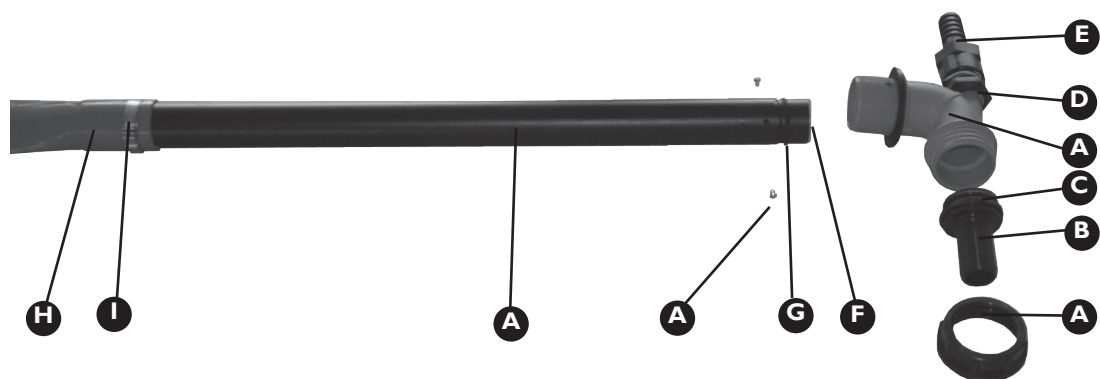


Assembly Part No. GA4901285-2

Item	Part No	Description	Quantity
A	GA4572015	Tank Adapter with Cam Lock	1
B	B55270-3/4-18	Rinse Nozzle	1
C	NIP075-6	3/4" x 6" Poly Nipple	1

Item	Part No	Description	Quantity
D	GA5018776	3/4" Poly Tee	1
E	75D	3/4" Female Coupler	1

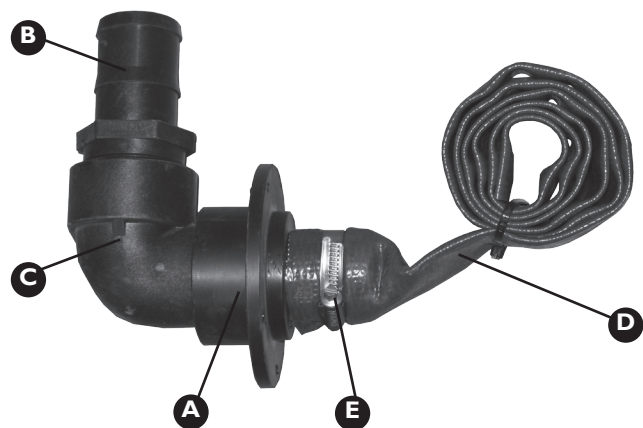
VENTURI



Assembly Part No. GA4903086			
Item	Part No	Description	Quantity
A	500232	Venturi Filler	1
B	106625	1" Hose Tail	1
C	G10060	O-ring M3 x 29mm	1
D	RB075050	3/4" x 1/2" Poly Reducer Bush	1
E	HBF075	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

HOPPER INLET

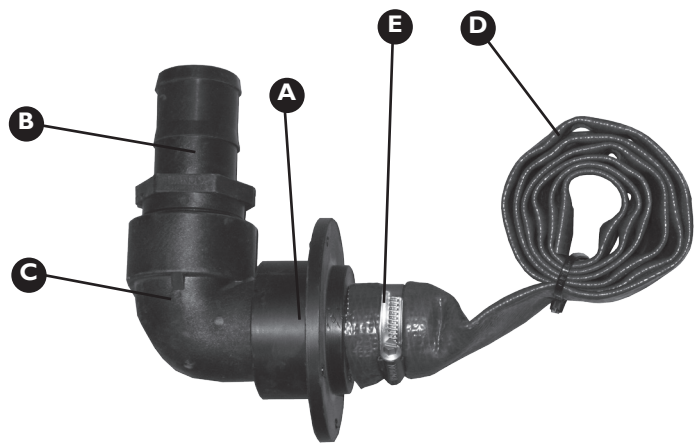


Assembly Part No. GA4903098			
Item	Part No	Description	Quantity
A	L026A	Tank Flange	1
B	HB200-150	1 1/2" Straight Poly Hose Barb	1
C	SL200-90	2" Elbow	1

Item	Part No	Description	Quantity
D	HOS50PVC	50mm PVC Hose*	1.55m
E	GA5003325	Hose Clamp	1
F	GA5000529	1" x 12g Screw#	3

\* Photo shows layflat hose which has now been replaced by PVC  
# Not shown in photo

TANK FILL



Assembly Part No. GA4903136

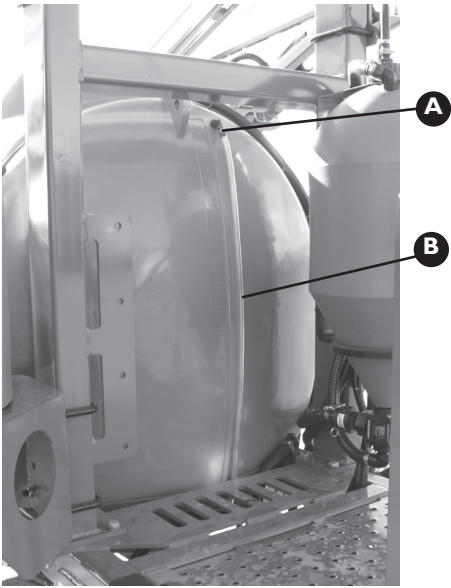
Item	Part No	Description	Quantity
A	L026A	Tank Flange	1
B	HB200	2" Straight Poly Hose Barb	1
C	SL200-90	2" Elbow	1

Item	Part No	Description	Quantity
D	HOS50PVC	50mm PVC Hose	1.55m
E	GA5003325	Hose Clamp	1
F	GA5000529	1" x 12g Screw#	3

\* Photo shows layflat hose which has been replaced by PVC  
# Not shown in photo

SIGHT TUBE

Item	Part No	Description	Quantity
A-1	HB050-90	1/2" Poly Elbow	2
A-2	GA5007231	Cobra Clamp	2
B	HOS12sight	12mm Clear Sight Tube	1.1m*

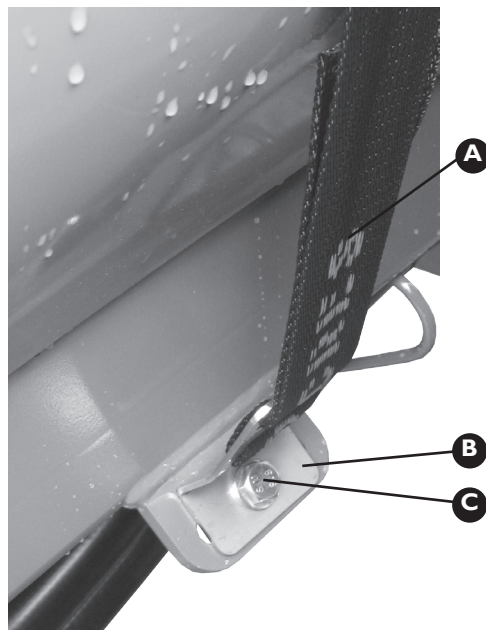


\*This is only an approximate valve and a required amount should be specified when ordering

## TANK STRAPS

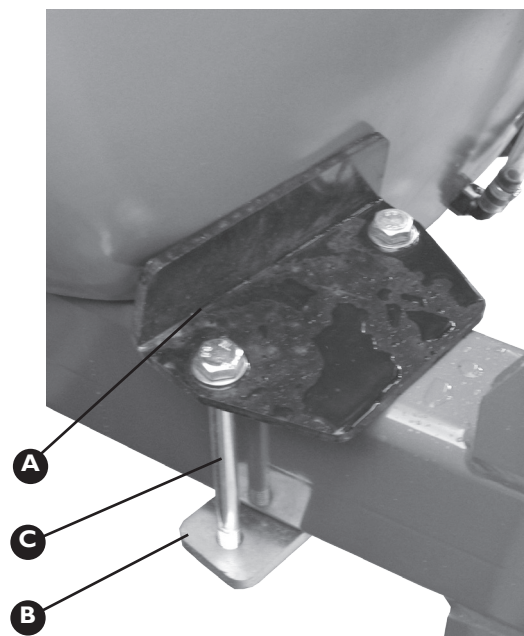
Item	Part No	Description	Quantity
A	GA5003859	50mm Wide Tank Strap	8m*
B	F70127A	Tank Strap Mounting Bracket	4
C-1	GA5000331	M12 x 50mm Bolt	4
C-2	GA5012461	M12 Nyloc Nut	4
C-3	GA5000577	12mm Washer	4

\*The required length needs to be specified when ordered as quantities may vary between machines. This value is an approximate value for the entire machine (front and back).



## TANK STOPS

Item	Part No	Description	Quantity
A	F70295A	Tank Stop (Left)	1
	F70296A	Tank Stop (Right)	1
B	F70297A	Mounting Plate	1
C-1	GA5000277	M12 x 160mm Bolt	2
C-2	GA5012461	M12 Nyloc Nut	2
C-3	GA5000577	12mm Washer	4



# CHAPTER 12

## WHEELS, AXLES & MUDGUARDS



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## WHEELS & TYRES

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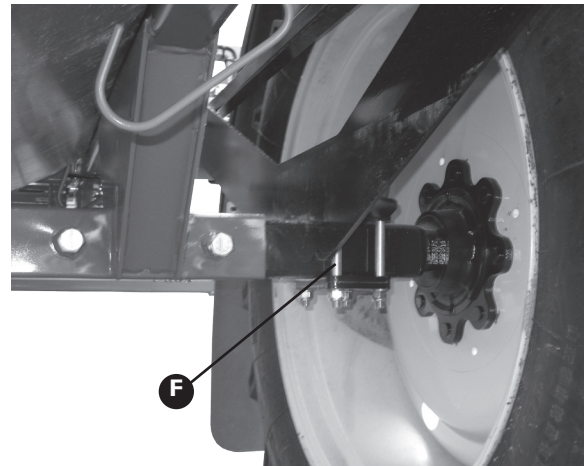


Item	Part No	Description	Quantity*
A	GA4901406	Complete Wheel and Tyre	2
B	GA5020685	Wheel DW 15x34	2
C	GA5016337	Tyre 16.9x34	2
D	GA5018891	M18 Wheel Nut	16
E	GA5017815	M18 Tapered Washer	16

\* Quantity for entire machine



## MUDGUARD KITS



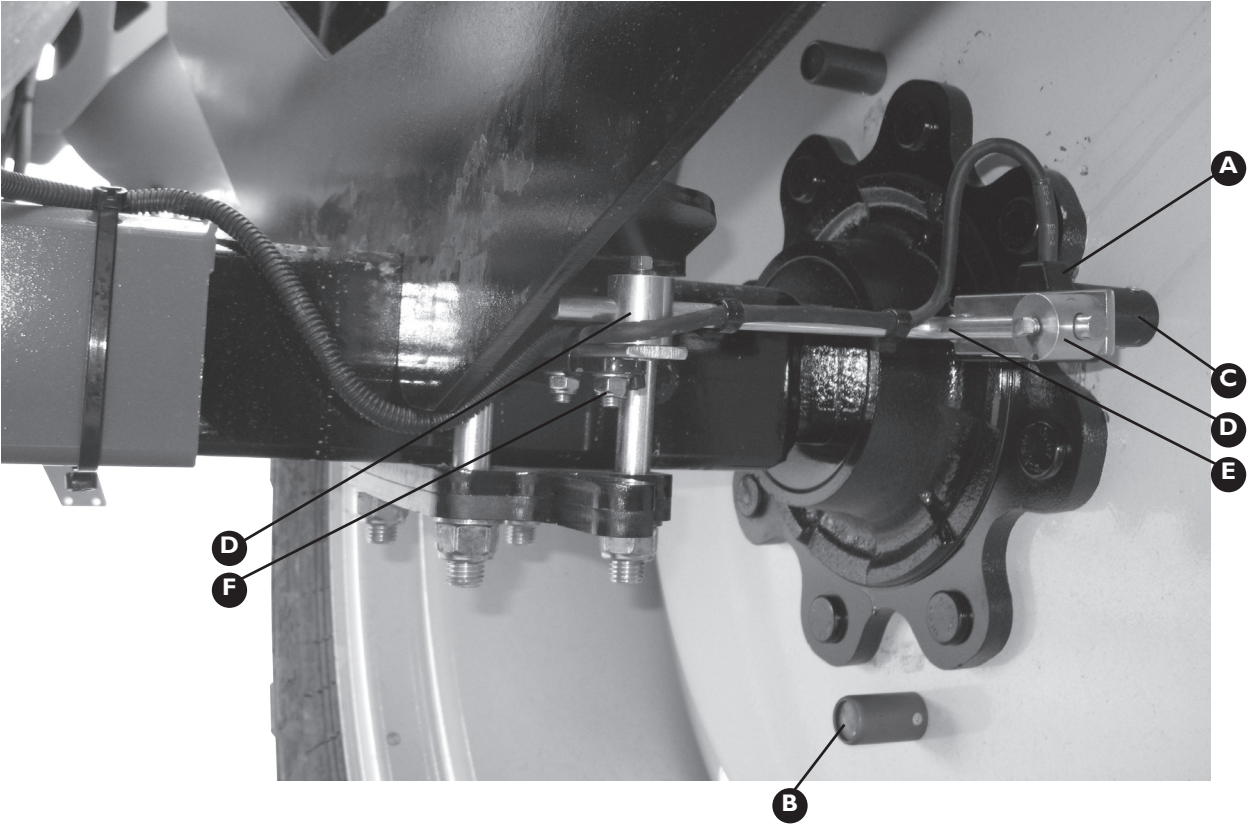
### Kit Part No GA4900588\*

Item	Part No	Description	Quantity
A	GA4655065	Mudguard Bracket	2
B	GA5003453	Poly Mudguard	2
C	GA5011949	Goldacres Mudflap	2
D	GA5020450	Plastic Mudguard Mount	
		and Mounting Bolts	8
E	GA5003875	50mm Tube Inserts	4
F-1	GA5000869	M16 x 150mm Bolt	8
F-2	GA5001029	M16 Nyloc Nut	8
F-3	PMB-008LAS	Mounting Plate	4

Item	Part No	Description	Quantity
F-4	GA5001043	16mm Washer	16
G	GA4502725	Stiffener for Mudflap	2
H-1	GA5065455	M10 x 30mm Bolt	4
H-2	GA5011131	M10 Dome Nut	4
H-3	GA5002627	3/8" Washer	8
I-1	GA5006055	M10 x 40mm Bolt	6
I-2	GA5011131	M10 Dome Nut	6
I-3	GA5002627	3/8" Washer	12

\* Kit contains a complete pair of mudguards

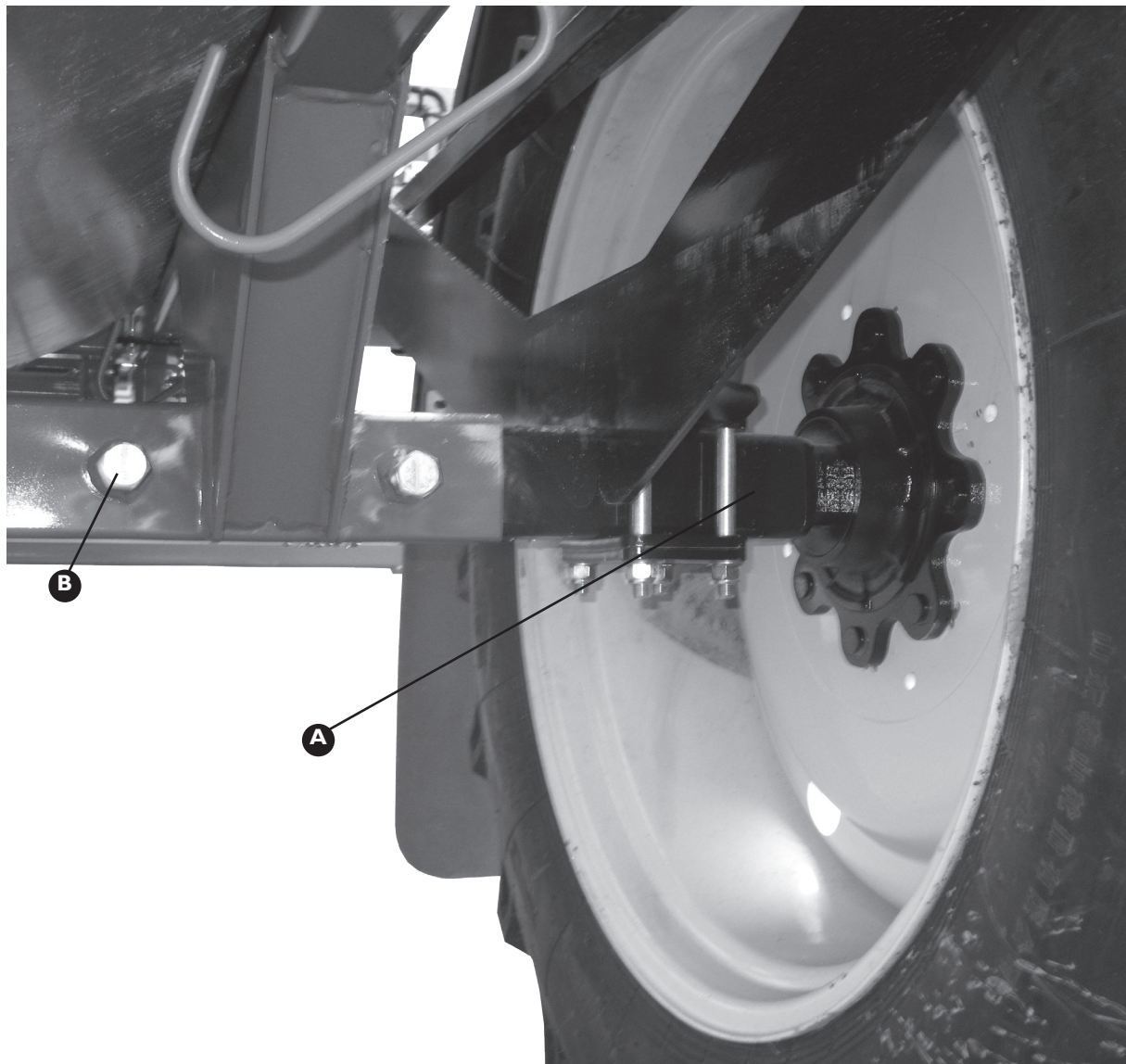
# WHEEL SPEED SENSOR



Complete Kit 0630171152			
Item	Part No	Description	Quantity
A	0630171149	Wheel Speed Sensor with 7 1/2' Sensor Cable	1
B	0630159403	Red Wheel Magnet	2
C	0630159402	Black Wheel Magnet	2
D	0630159483	Mounting Adpater	2
E	1070159472	Mounting Rod	1

Mounting Bolts			
Item	Part No	Description	Quantity
F-1	GA5004713	M8 x 25mm Bolt	2
F-2	GA5004917	M8 Nyloc Nut	2
F-3	GA5003643	8mm Washer	4

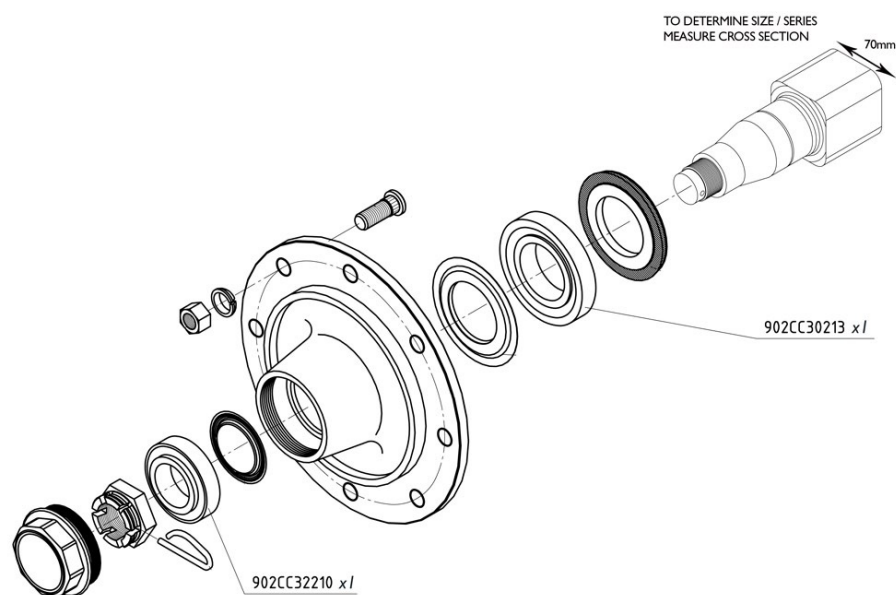
## AXLES



Item	Part No	Description	Quantity
A	GA4652915	Right Stub Axle	1
	GA4652920	Left Stub Axle	1
B-1	GA5001557	M20 x 60mm Bolt*	2
B-2	GA5001709	M20 Nut*	2

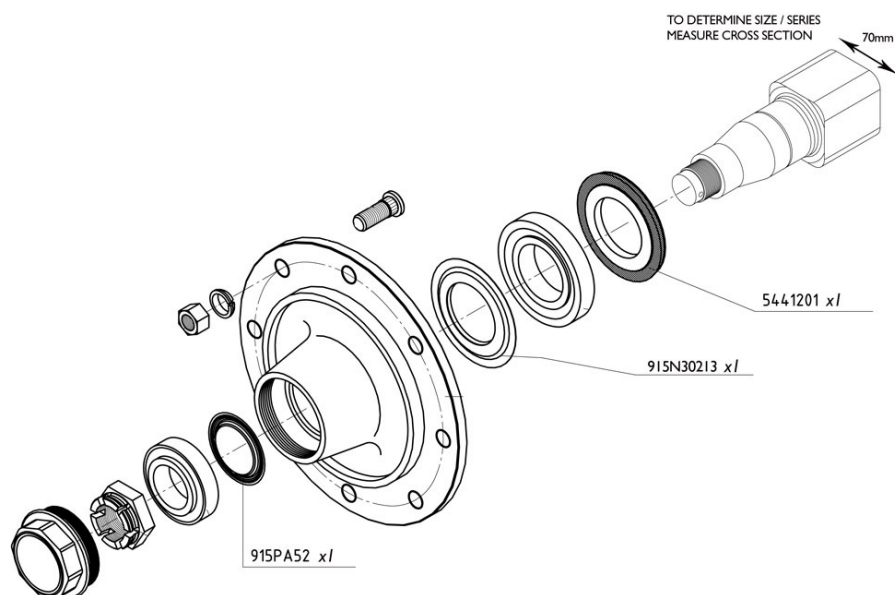
\* Quantity is per side

HUBS



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

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

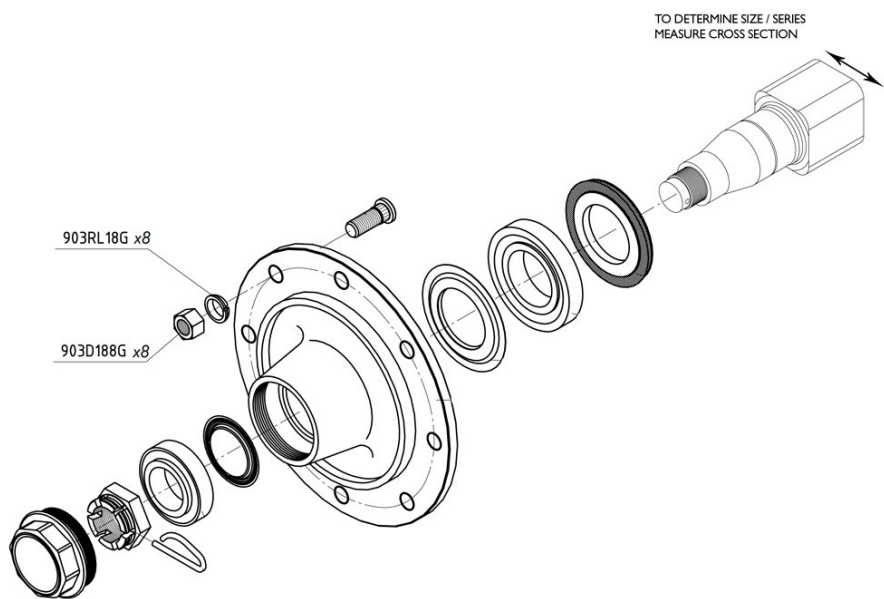


70 Series Seal Kit		
Part No	Description	Quantity
GA5052100	70 Series Seal Kit	1

Seal Kit Contents		
Part No	Description	Quantity
5441201	Hub Seal	1
915N30213	Inner Bearing Slinger	1
915PA52	Outer Bearing Slinger	1

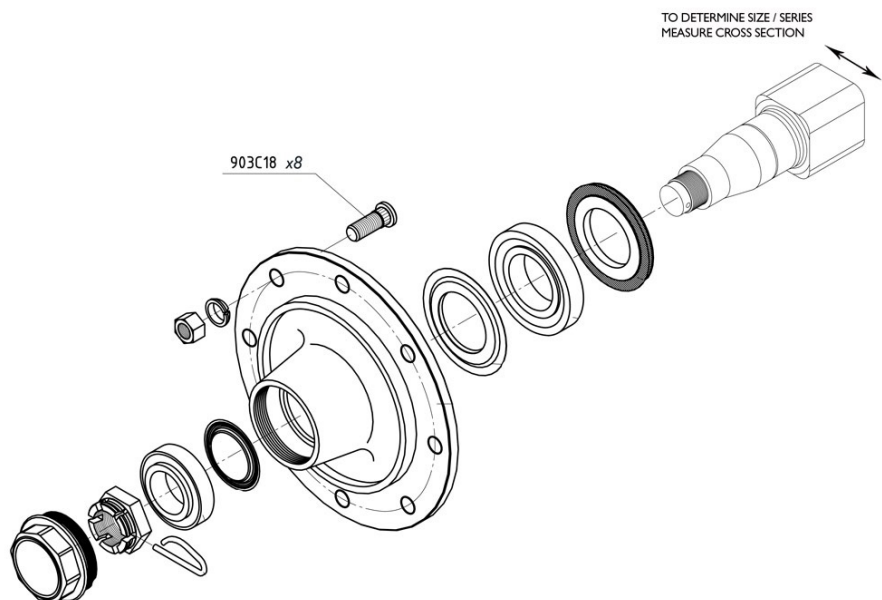


HUBS



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

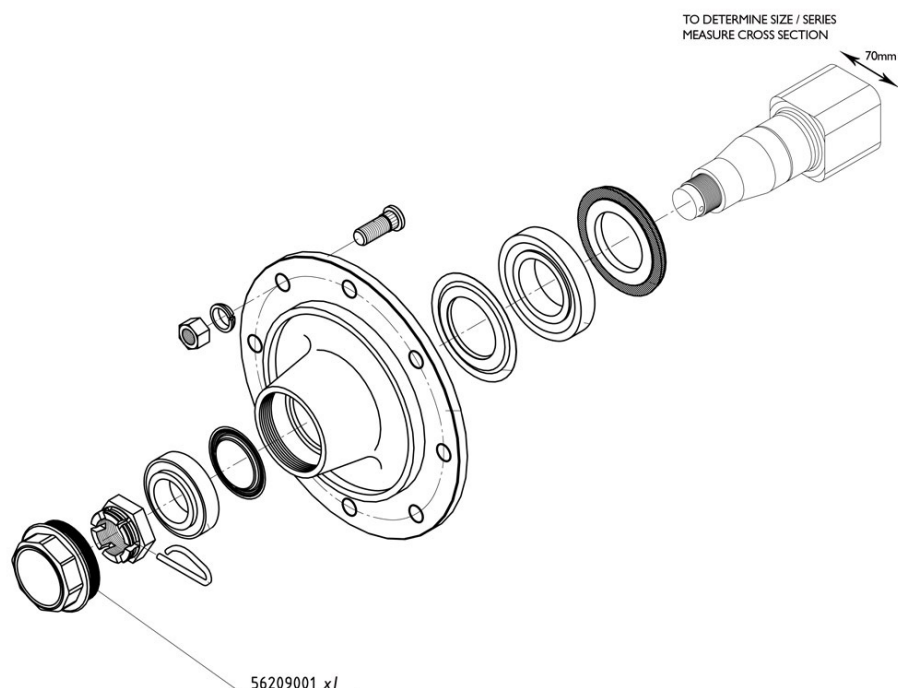
Nut Kit Contents		
Part No	Description	Quantity
903RL18G	Wheel Nut Washer	8
903D188G	Wheel Nut	8



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

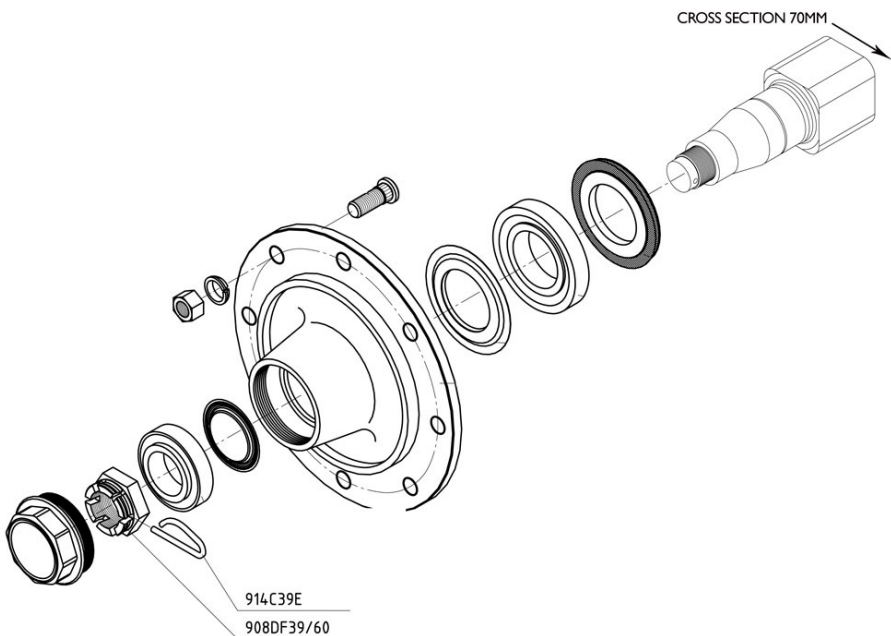
Stud Kit Contents		
Part No	Description	Quantity
903C18	Wheel Stud	8

HUBS



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

Cap Kit Contents		
Part No	Description	Quantity
56209001	Dust Cap	1



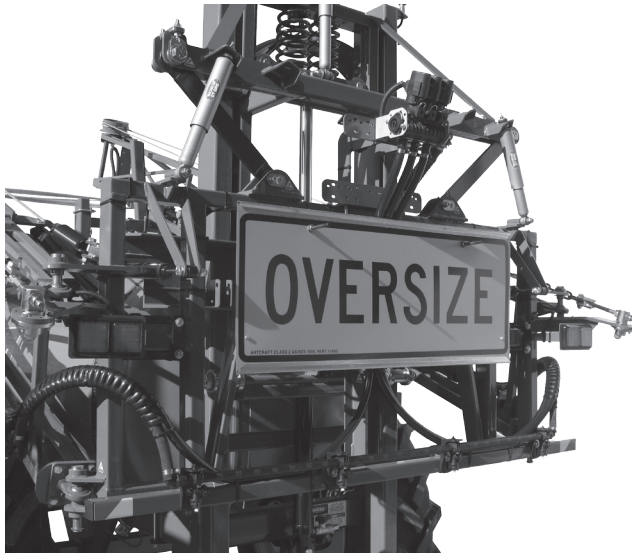
70 Series Crown Nut Kit		
Part No	Description	Quantity
GA5052115	70 Series Crown Nut Kit	1

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



# CHAPTER 13

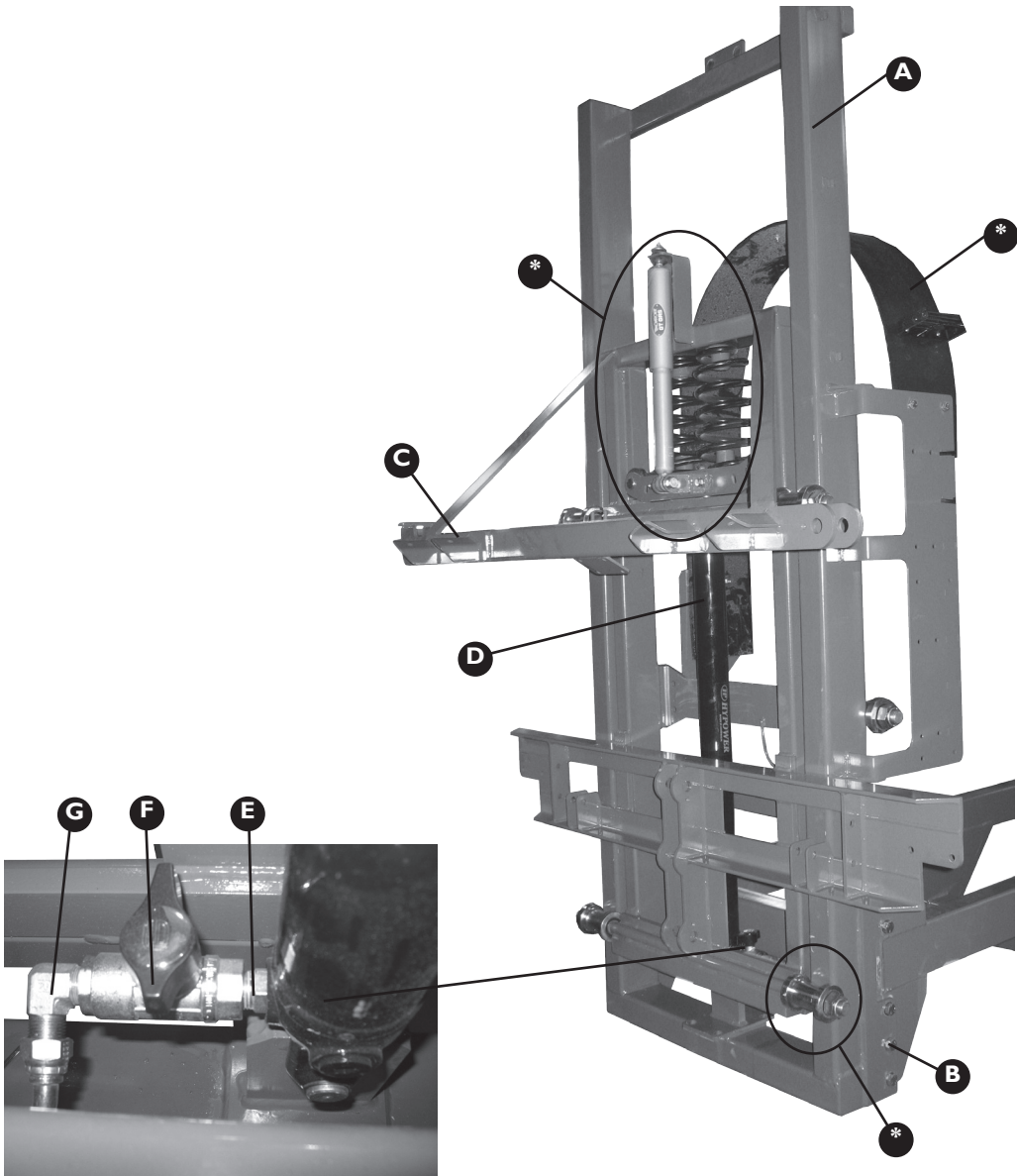
## BOOM CENTRE & TOWER



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TOWER COMPONENTS

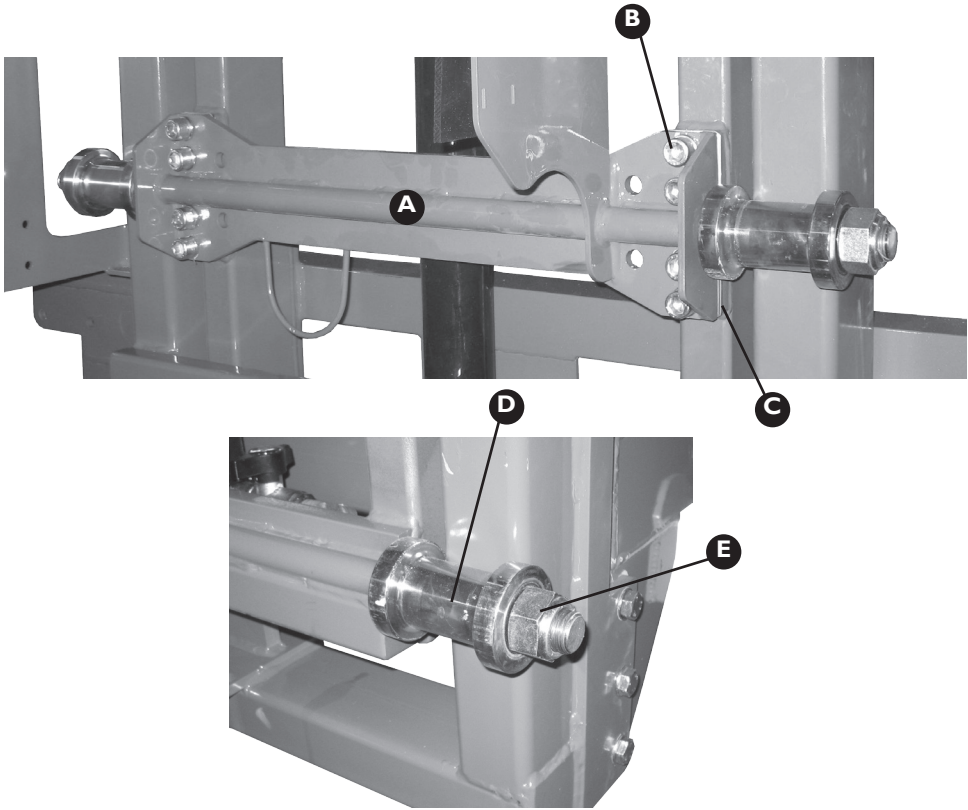


Item	Part No	Description	Quantity
A	GA4654025	Tower Frame (Outer, Base)	1
B-1	GA5000931	M16 x 50mm Bolt	12
B-2	GA5001029	M16 Nyloc Nut	12
B-3	GA5001009	16mm Washer	24
C	GA4654035	Tower Inner	1

Item	Part No	Description	Quantity
D	GA5018543	2 1/2" x 36" Cylinder	1
E	S93-0814	Hydraulic Nipple	1
F	GA5000835	1/2" Hydraulic Ball Valve	1
G	S49-0808	1/2" Hydraulic Elbow	1

\* For Tower Rollers, Boom Suspension and Hose Guide refer to following pages

TOWER ROLLERS

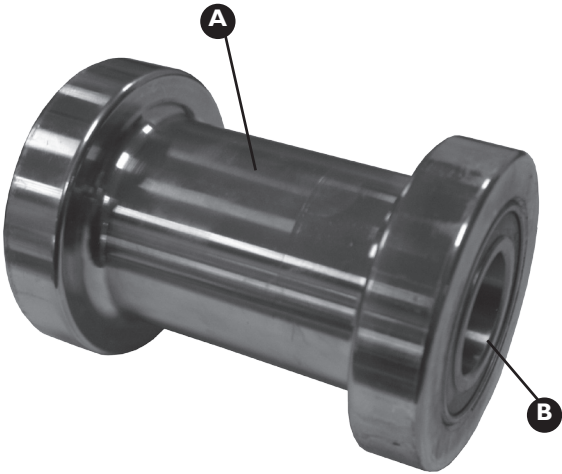


Item	Part No	Description	Quantity
A	GA4653975	Bolt on Roller Axle	1
B-1	GA5000915	M16 x 30mm Bolt	8
B-2	GA5000961	16mm Washer	8
B-3	GA5001051	16mm Spring Washer	8

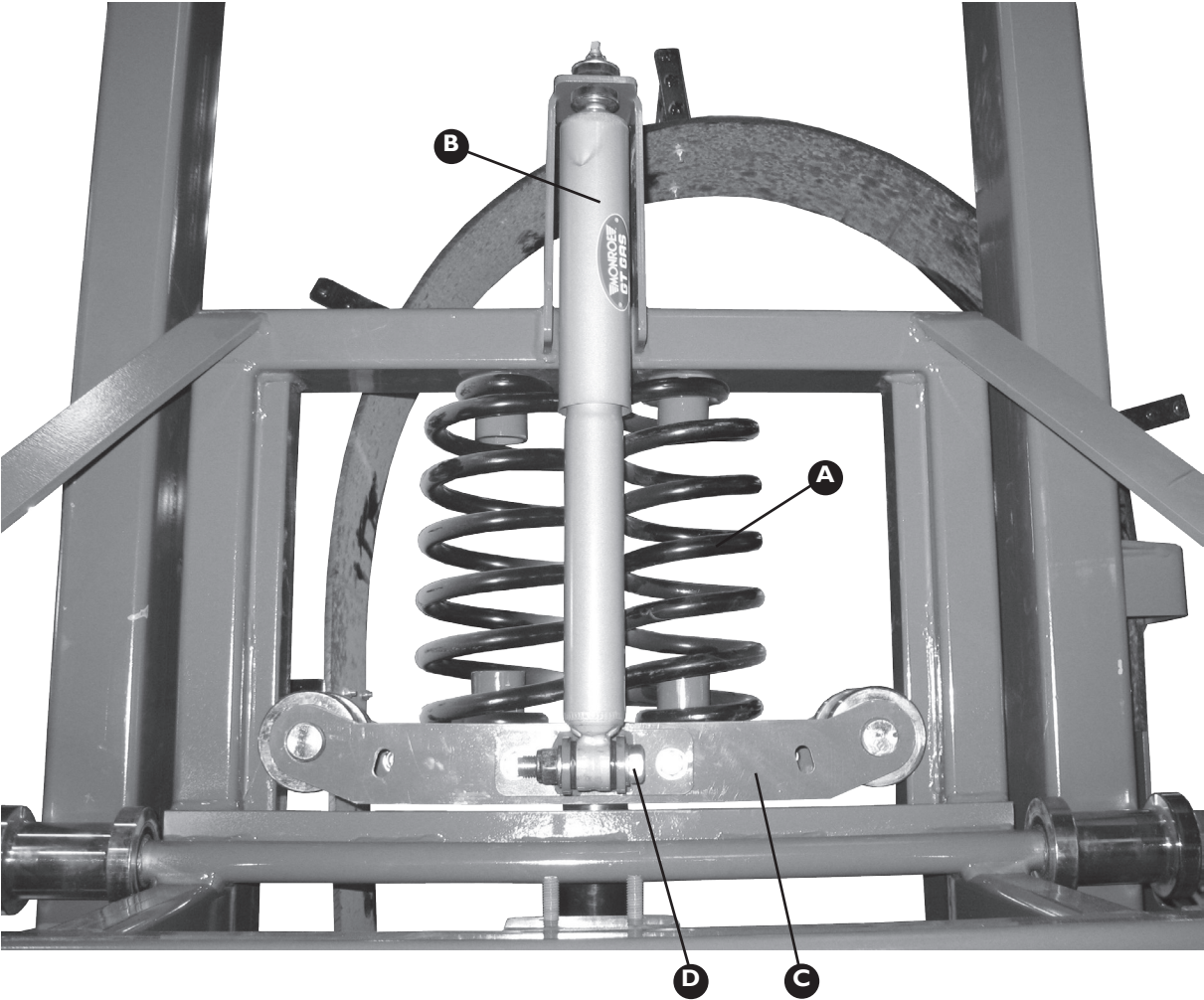
\* Quantity may vary

Item	Part No	Description	Quantity
C	TI65LAS	Roller Axle Shim	8*
D	ROLLER3	Roller Assembly	6
E	GA5002693	M30 Nyloc Nut (3.5 Pitch)	6

ROLLER3 Assembly Breakdown			
Item	Part No	Description	Quantity
1	L010M	Roller Body	1
2	GA5005665	Bearing (6006-2RS)	2



VERTICAL BOOM SUSPENSION



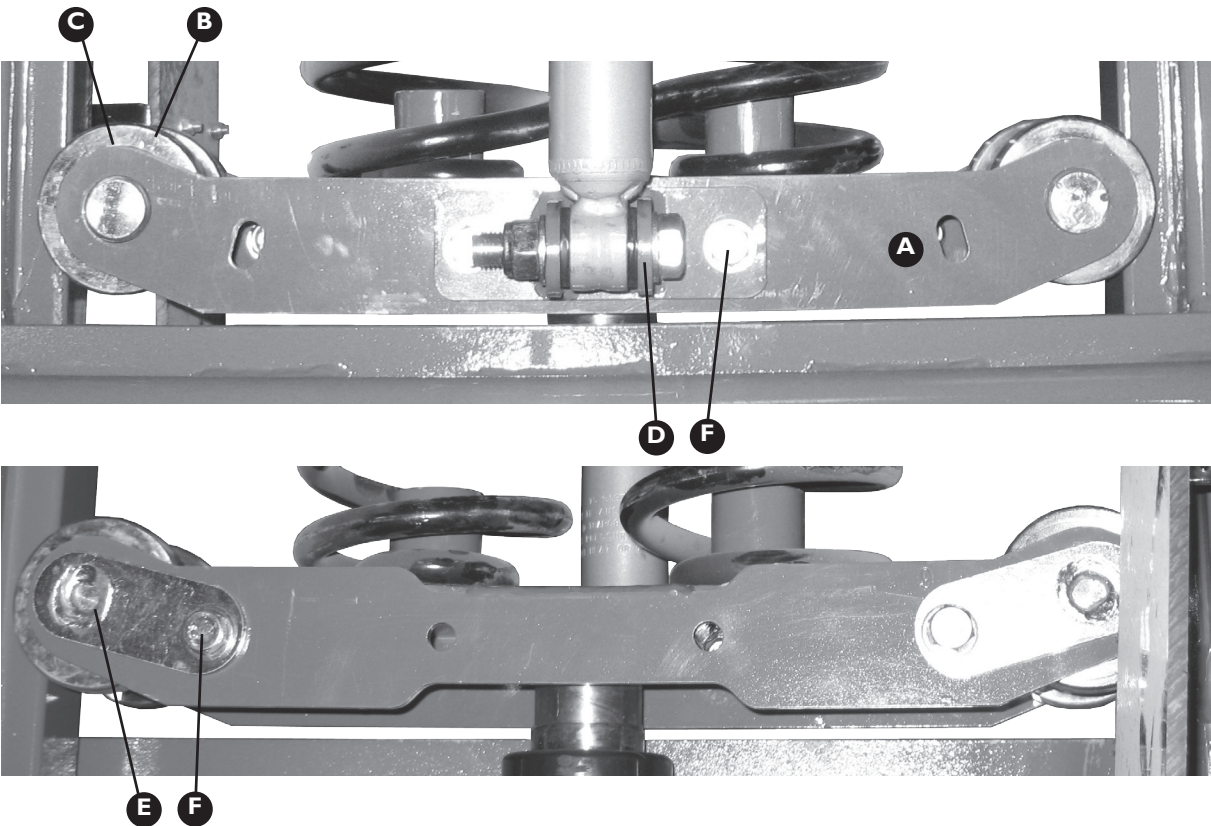
Item	Part No	Description	Quantity
A	GA5001039	Coil Spring	2
B	GA5015145	Damper	1
C	GA5020448	Spring Roller Top Assembly*	1

Item	Part No	Description	Quantity
D-1	GA5011297	M16 x 90mm Bolt	1
D-2	GA5001029	M16 Nyloc Nut	1
D-3	GA5001009	16mm Washer	2

\* Breakdown shown on next page



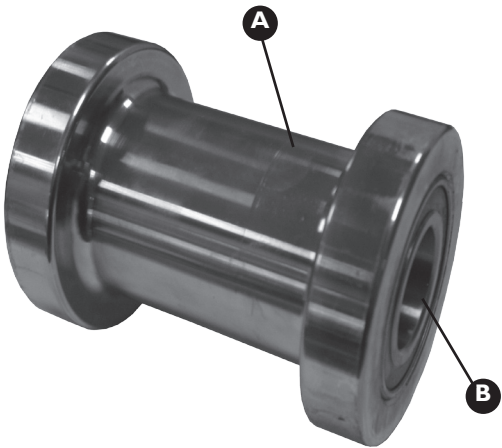
SPRING ROLLER TOP



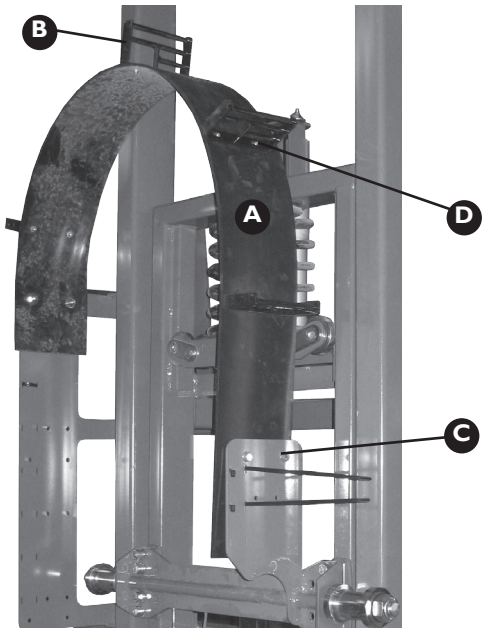
Assembly Part No GA5020448			
Item	Part No	Description	Quantity
A	GA4653985	Spring Roller Top Body	1
B	ROLLER4	Roller and Bearings	2
C	ST003LAS	Spacer Washer	4
D	GA4653995	Shock Absorber Mount	1

Item	Part No	Description	Quantity
E	Pin-30mm-110	Roller Pin	2
F-1	GA5000311	M12 x 35mm Bolt	4
F-2	GA5012461	M12 Nyloc Nut	4
F-3	GA5000587	12mm Washer	8

ROLLER4 Assembly Breakdown			
Item	Part No	Description	Quantity
1	L010M-EX	Roller Body	1
2	GA5005665	Bearing (6006-2RS)	2



# TOWER HOSE GUIDE



Assembly Part No GA4903141

Item	Part No	Description	Quantity
A	GA5013207	Polystone 2000mx197x6	1
B	GA4653965	Hose Guide	4
C-1	GA5050180	M10 x 25mm Bolt	4
C-2	GA5000141	M10 Nyloc Nut	4
C-3	GA5000117	10mm Washer	4
C-4	GA5002627	3/8" Washer	4

Item	Part No	Description	Quantity
D-1	GA5004053	M6 x 20mm Button Head Cap Screw	8
D-2	GA5048115	M6 Nyloc Nut	8
D-3	GA5004437	6mm Washer	8
D-4	GA5003645	5/16" Washer	8

# OVERSIZE SIGN



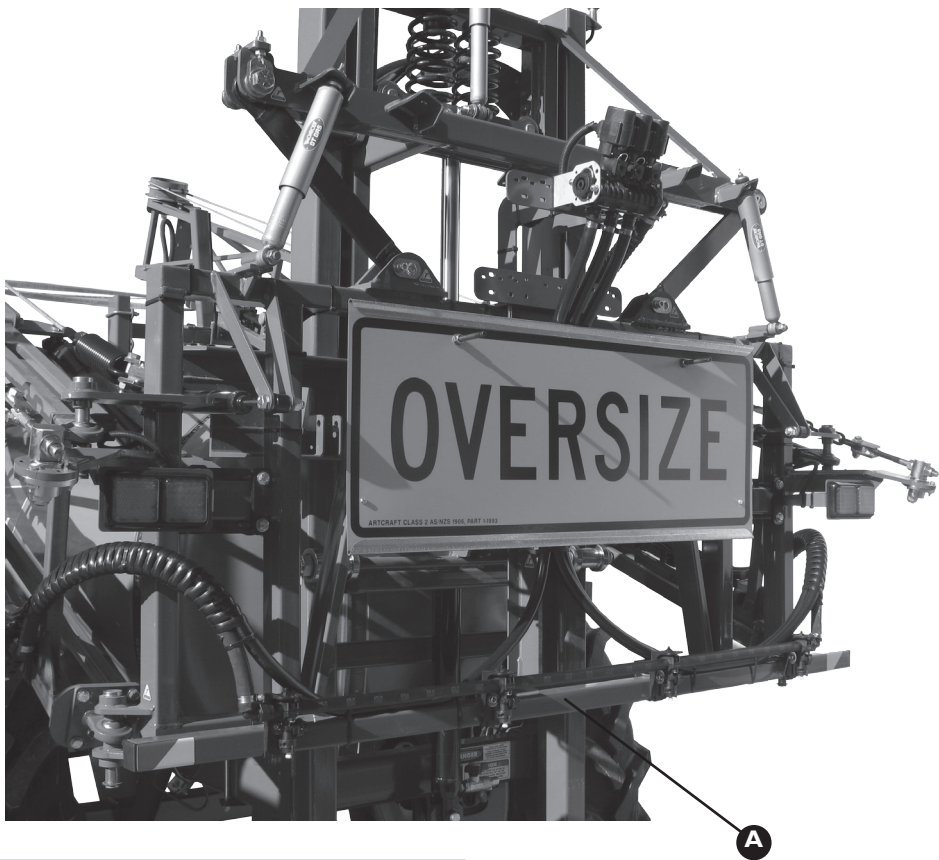
Item	Part No	Description	Quantity
A	GA5009613	Oversize Sign	1
B-1	GA5004711	M8 x 25mm Bolt	2

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

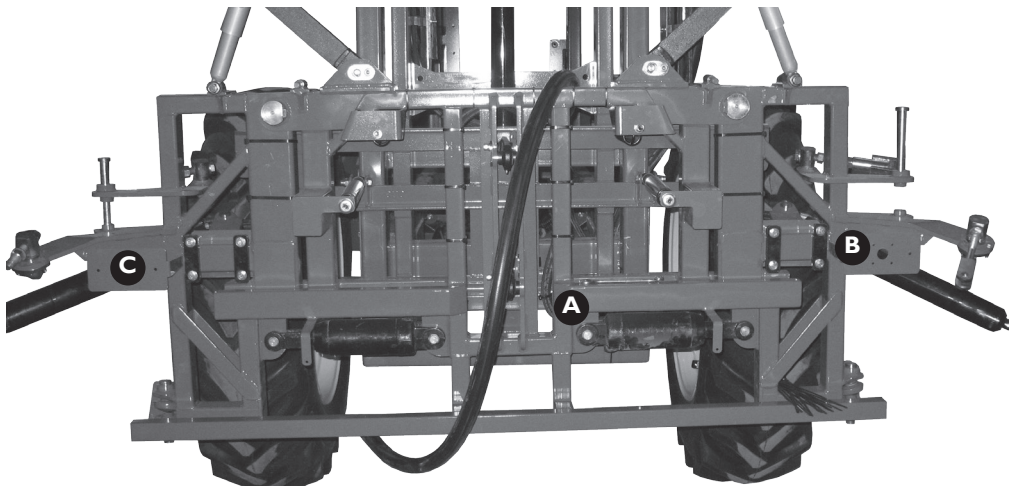


# CENTRE SECTION WITHOUT TILTS



Item	Part No	Description
A	GA4653270	Bare Centre Section without Tilts

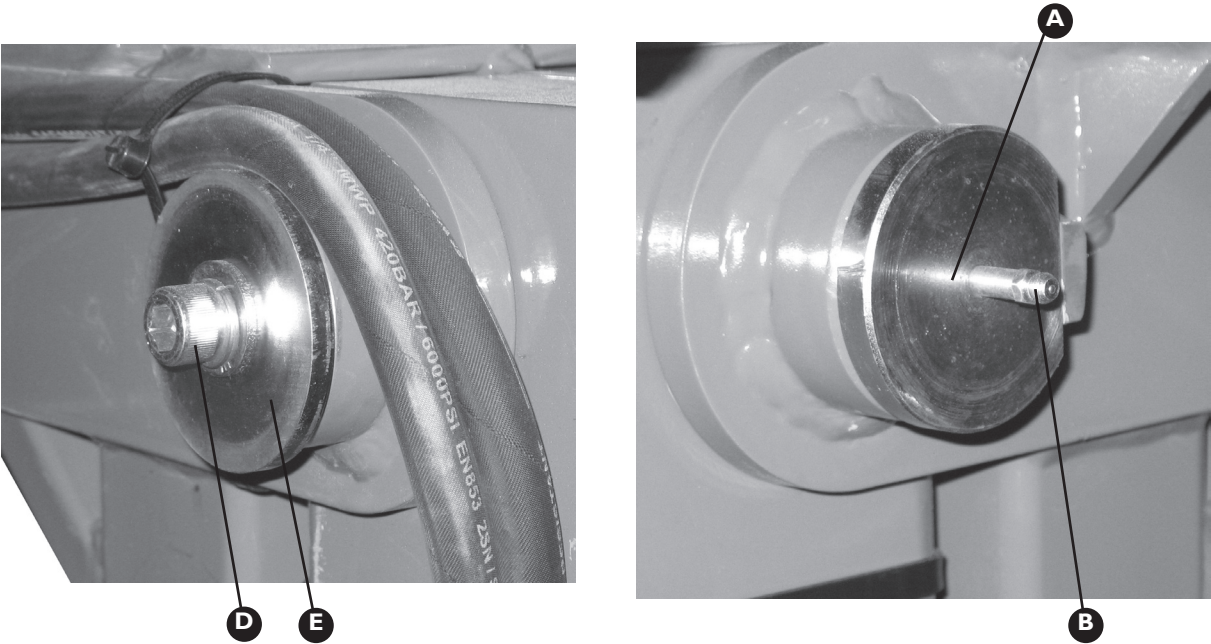
# CENTRE SECTION WITH TILT



Item	Part No	Description
A	GA4653275	Bare Boom Centre with Tilt
B	GA4653290	Right Tilt Arm

Item	Part No	Description
C	GA4653295	Left Tilt Arm

# TILT ARM PINS

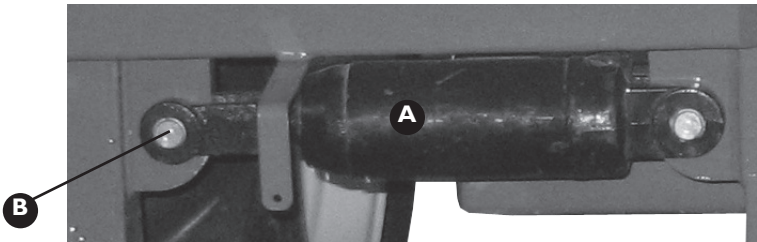


Item	Part No	Description	Quantity*
A	MACH0115	Tilt Arm Pin	1
B	GA5012203	Grease Nipple	1
C	GA5009473	Glazier Bush 40IDx30mm#	2
D-1	GA5000307	M12 x 30mm Cap Screw	1

Item	Part No	Description	Quantity*
D-3	GA5000577	12mm Washer	1
D-4	GA5000575	12mm Spring Washer	1
E	F70111A	Tin Pin Washer	1

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

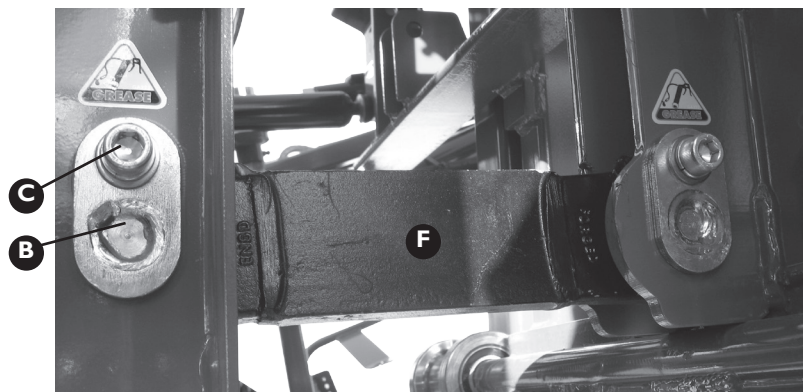
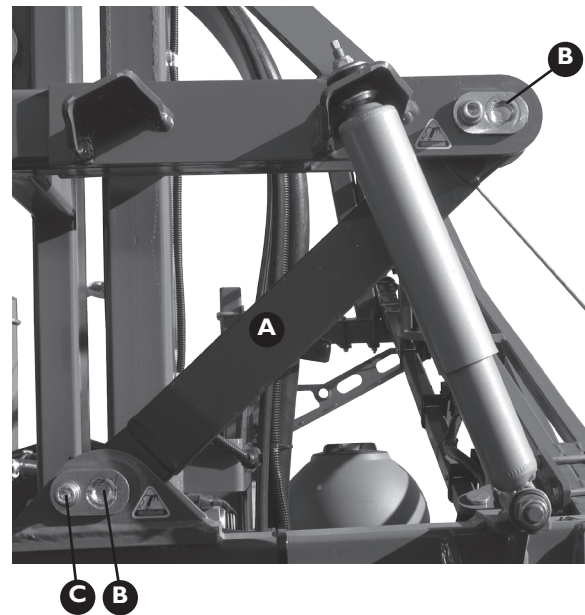
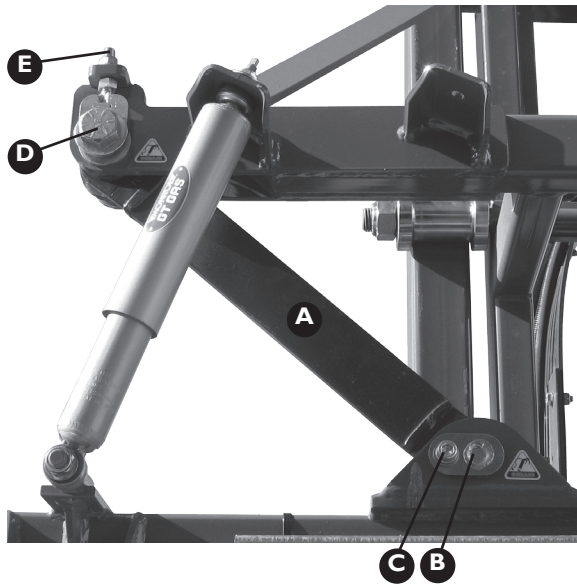
# TILT CYLINDERS



Item	Part No	Description	Quantity*
A	GA5018551	Tilt Cylinder (3 1/2" x 5")	1
B-1	L068	Ram Pin	2
B-2	GA5001223	19mm E-Type Circlip	2

\* Quantity based on per tilt arm

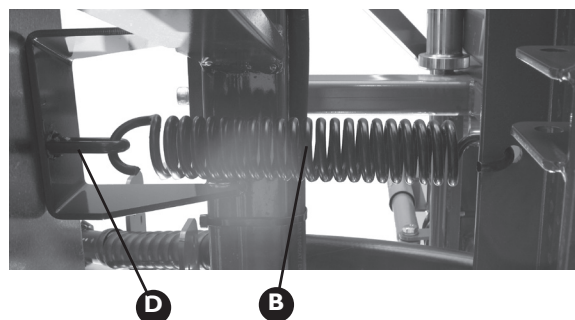
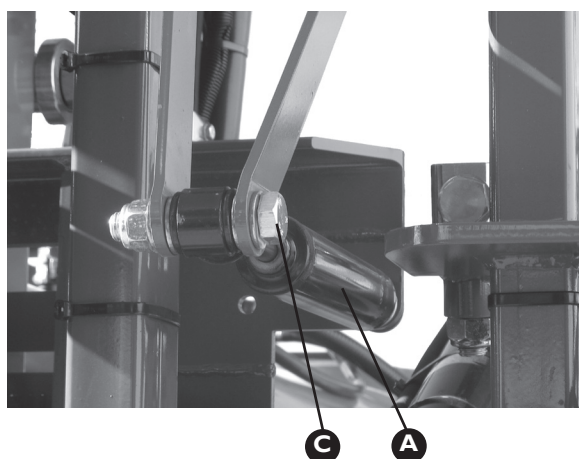
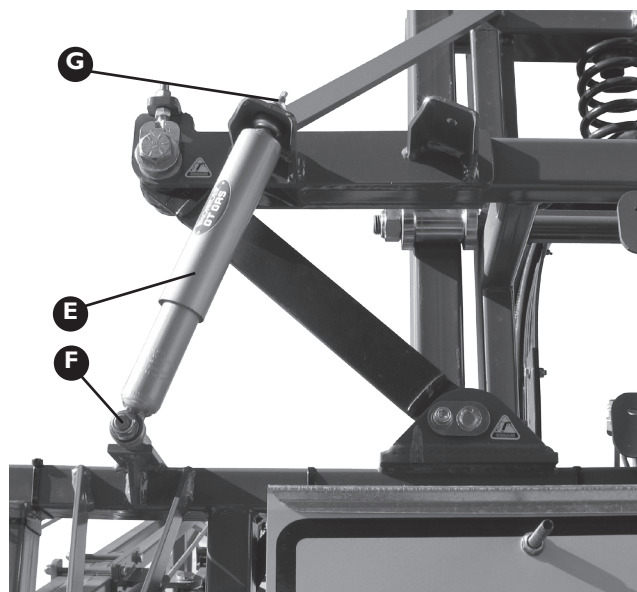
# DELTA LINKS



Item	Part No	Description	Quantity
A	GA4656240	Long Delta Link	2
B	Pin-1-87	Delta Link Pin	7
C-1	GA5000299	M12 x 25mm Bolt	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	GA4656245	Short Delta Link	2

## CENTRE SECTION SPRING & 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



## BOOM CABLE ADJUSTERS



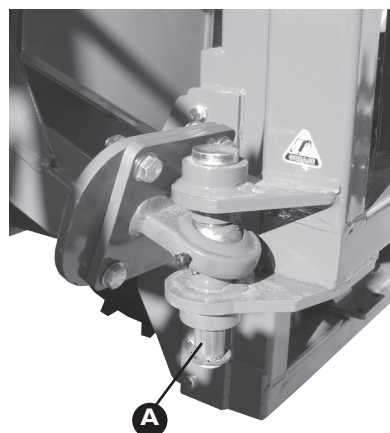
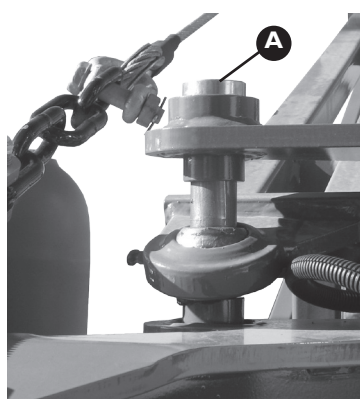
Item	Part No	Description	Quantity*
A-1	MACH0029	Eccentric Bush	1
A-2	GA5009639	1/4" Grease Nipple	1
B-1	GA5048655	M8 x 40mm Bolt	3
B-2	GA5004917	M8 Nyloc Nut	3
B-3	GA5004913	8mm Washer	3
C-1	L006A	Boom Cable Swivel	1
C-2	GA5048125	M20 x 2.5 Nyloc Nut	1
D-1	GA5020320	Threaded cable adjuster	1

Item	Part No	Description	Quantity*
D-2	GA5048125	M20 x 2.5 Nyloc Nut	1
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

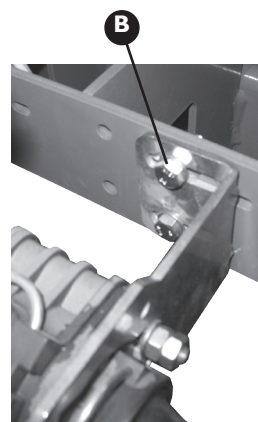
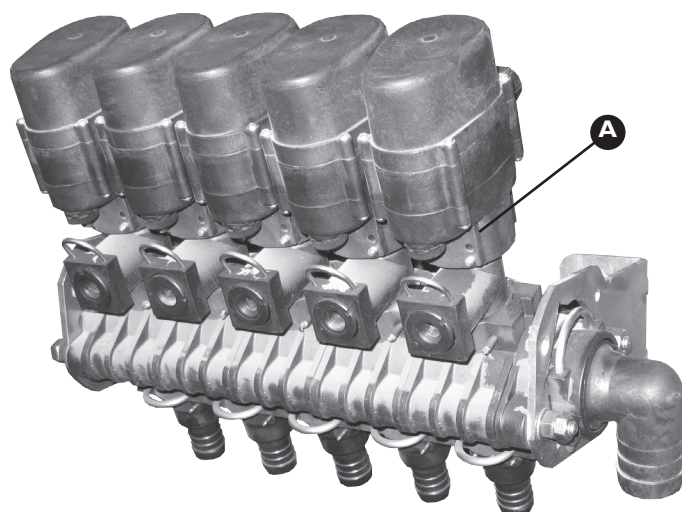
# Not Shown in Photo

## BOOM PIVOT PINS



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

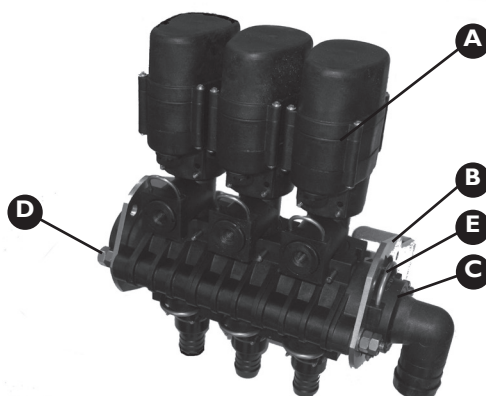
## BOOM VALVES ASSEMBLIES



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

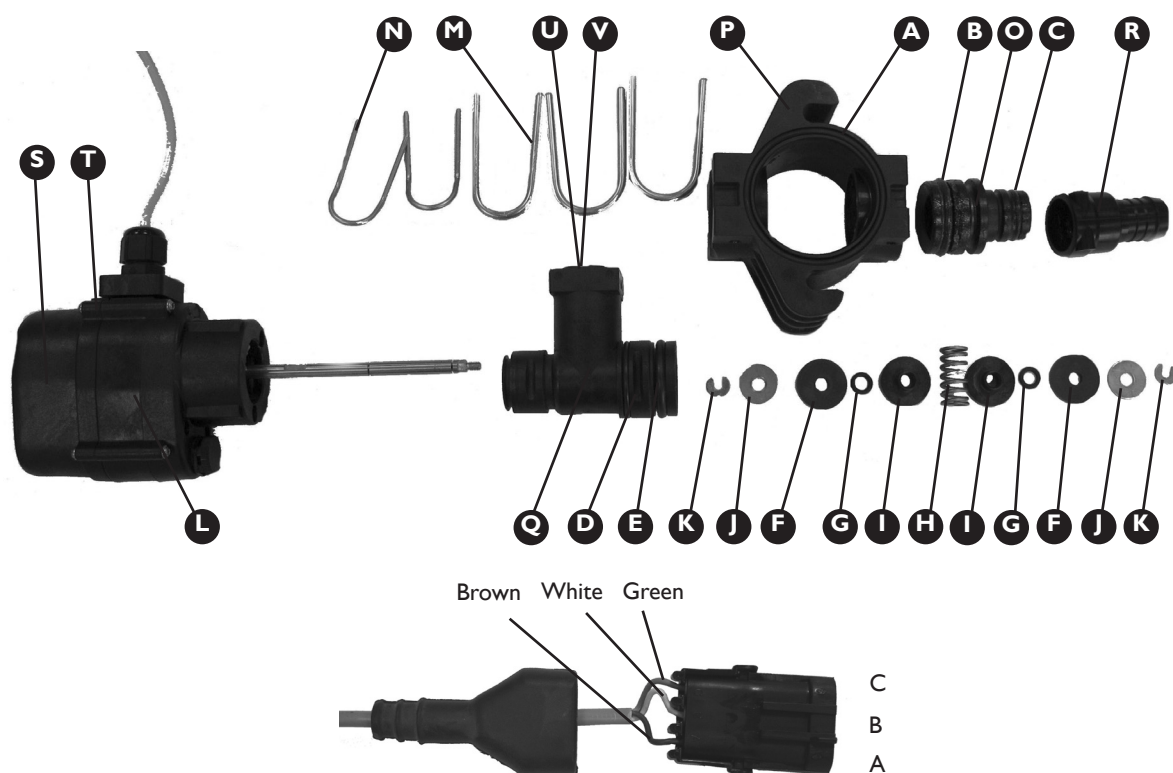


Item	Part No	Description	Quantity
A	GA5065510	Section Valve with Pressure Relief	1
	GA5065515	Section Valve	1
B	GA5065800	Boom Valve Bracket	2
C	GA5065810	Boom Valve End Cap	2
D	GA5065805	3 Section Connecting Rod	2

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



# BOOM SECTION VALVE COMPONENTS

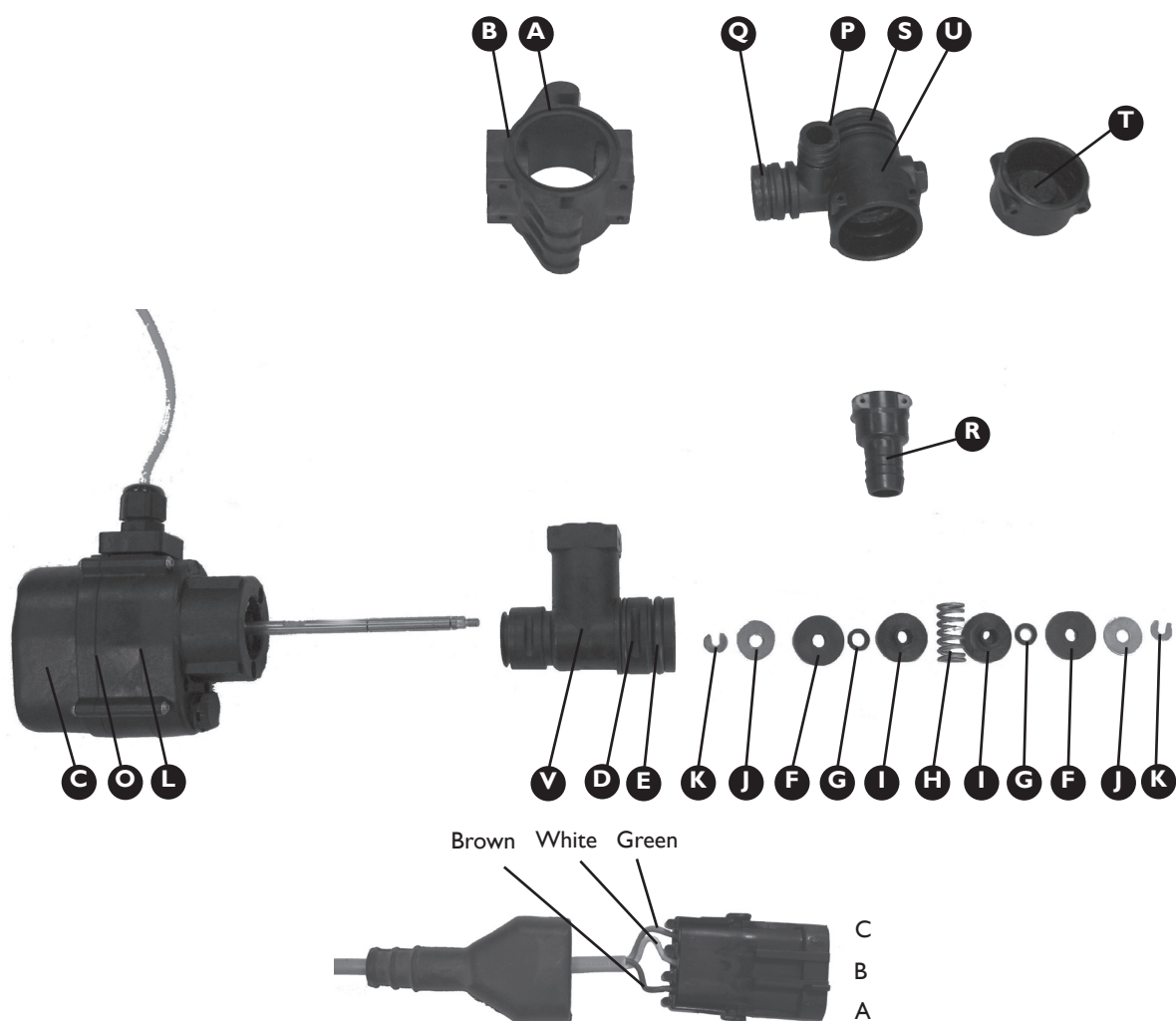


## Assembly Part No GA5065515

Item	Part No	Description	Quantity
A	47512	O-ring	1
B	02633	O-ring 25 x 4 fpm 75	1
C	37628	O-ring 18 x 2.5 fpm 75	1
D	80404	O-ring 25 x 4 fpm 75	1
E	02633	O-ring 25 x 4 fpm 75	1
F	80004	Disc Seal fpm 90	2
G	80414	O-ring 4.34 x 3.53 fpm 75	2
H	80322	Spring	1
I	80005	Disc	2
J	80323	Washer	2
K	80014	C-Clip	2

Item	Part No	Description	Quantity
L	80364	Valve Body	1
M	GA5065690	Safety Pin AS40	3
N	GA5065695	Safety Pin AS24	2
O	GA5065605	Hose Tail	1
P	47800	Manifold	1
Q		Tee	1
R	GA5065640	Female Hose Tail	1
S	81350	Valve Cap	1
T	81300	Valve Cap O-ring	1
U	80376	Plug	1
V	37621	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	47512	O-ring	1
B	47800	Manifold	1
C	81350	Valve Cap	1
D	80404	O-ring 25 x 4 fpm 75	1
E	02633	O-ring 25 x 4 fpm 75	1
F	80004	Disc Seal fpm 90	2
G	80414	O-ring 4.34 x 3.53 fpm 75	2
H	80322	Spring	1
I	80005	Disc	2
J	80323	Washer	2
K	80014	C-Clip	2
L	80364	Valve Body	1

Item	Part No	Description	Quantity
M	GA5065690	Safety Pin AS40	3
N	GA5065695	Safety Pin AS24	2
O	81300	Cap O-ring	1
P	37628	O-ring 18 x 2.5 fpm 75	1
Q	02633	O-ring 25 x 4 fpm 75	1
R	GA5065640	Female Hose Tail	1
S	05243	O-ring 35 x 4 fpm 75	1
T		Cap	1
U		Fitting	1
V		Tee	1
W	80376	Plug	1
X	37621	O-ring 18 x 2.5 fpm 75	1

# CHAPTER 14

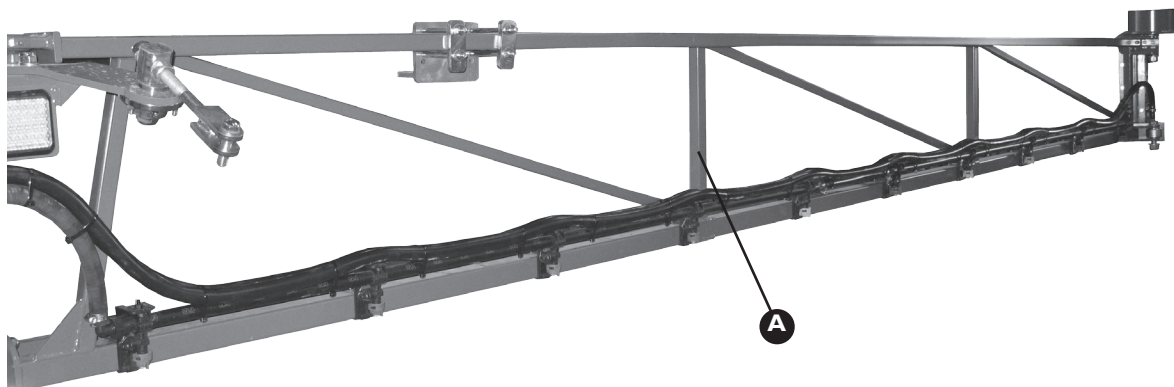
## DELTA BOOMS



Inner Boom Wings .....	14-2
Outer Boom Wings .....	14-2
Cable Drum Hinge .....	14-3
Upper Bearing Pivot Assembly ....	14-3
Lower Bearing Pivot Assembly ....	14-4
Fold Cylinders.....	14-4
Boom End Protectors.....	14-5
Boom Cable Tensioner Assembly ..	14-5
Breakaway End Mechanism.....	14-6
Flip Over Ends .....	14-8
Rubber Bump Stops .....	14-8
Boom Protectors .....	14-9
Boom Fold Support Brackets.....	14-9
Boom Line Plumbing.....	14-10
Adjustable Nozzle Brackets ....	14-11
Foam Marker Components .....	14-12
Manual Fence Line Nozzles .....	14-13
Solenoid Operated Fence Line Nozzles	14-13
Boom Cable .....	14-14

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## INNER BOOM WINGS



Item	Part No	Description	Quantity
A	GA4655640	18-24m Inner Boom	
		Wing (RH)	1
	GA4655645	18-24m Inner Boom	
		Wing (LH)	1

## OUTER BOOM SECTIONS

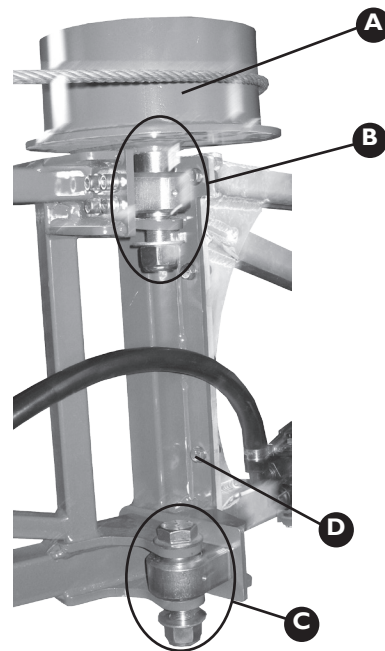


Item	Part No	Description	Quantity
A	GA4655925	18m Outer Boom (steel)	1
	GA4655930	21m Outer Boom (steel)	1
	GA4655935	24m Outer Boom	
		(Aluminium)	1
	GA4656055	24m Outer Boom to suit	
		Breakaway (Aluminium)	1

Note: Outer Wings can be fitted as left or right

## CABLE DRUM HINGE

Item	Part No	Description	Quantity
A	GA4656170	Right Cable Drum	1
	GA4656175	Left Cable Drum	1
B	GA4932346	Upper Pivot Assembly	1
C	GA4932347	Lower Pivot Assembly	1
D-1	GA5015011	M10 x 35mm Bolt	8
D-2	GA5000141	M10 nyloc Nut	8
D-3	GA5000115	10mm Washer	16



## UPPER BEARING PIVOT ASSEMBLY

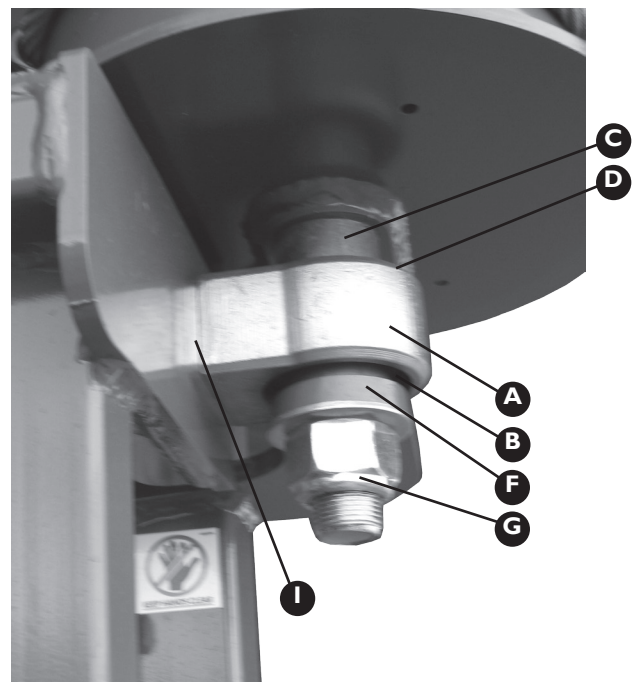
### Assembly Part No GA4932346

Item	Part No	Description	Quantity <sup>#1</sup>
A	MACH0123	Bearing Housing	1
B	GA5015659	Spherical Bush	1
C	MACH0119	Pivot Bush (long)	1
D	GA5010573	Internal Circlip	1
E	GA5012203	1/4" Grease Nipple <sup>#2</sup>	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	2
H-1	GA5020115	M10 x 30mm Cap Screw <sup>#2</sup>	4
H-2	GA5000115	10mm Washer <sup>#2</sup>	4
H-3	GA5000137	10mm Spring Washer <sup>#2</sup>	4
I	F70771A	1mm Shim	*

\* Quantity Varies

<sup>#1</sup> Quantities are per side

<sup>#2</sup> Not Shown



## LOWER BEARING PIVOT ASSEMBLY

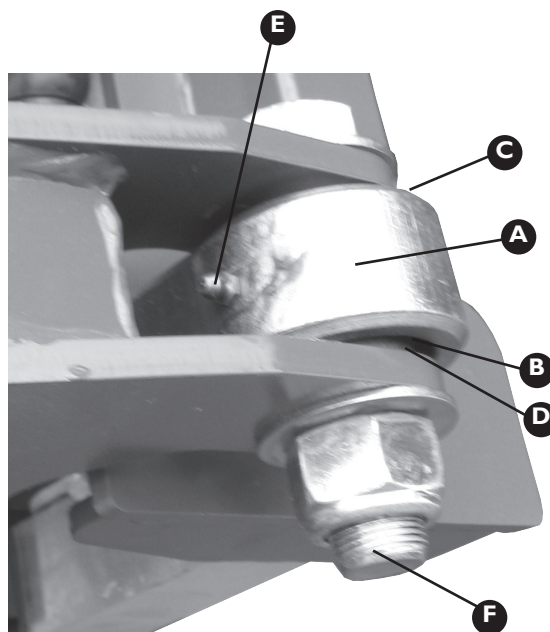
### Assembly Part No GA4932347

Item	Part No	Description	Quantity <sup>#1</sup>
A	MACH0123	Bearing Housing	1
B	GA5015659	Spherical Bush	1
C	GA5010573	Internal Circlip	1
D	DB-ADJ-02	Pivot Bush (short)	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	2
G-1	GA5020115	M10 x 30mm Cap Screw <sup>#2</sup>	4
G-2	GA5000115	10mm Washer <sup>#2</sup>	4
G-3	GA5000137	10mm Spring Washer <sup>#2</sup>	4
H	F70771A	1mm Shim <sup>#2</sup>	*

\* Quantity Varies

<sup>#1</sup> Quantities are per side

<sup>#2</sup> Not Shown



## FOLD CYLINDERS

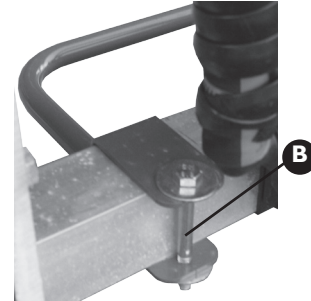
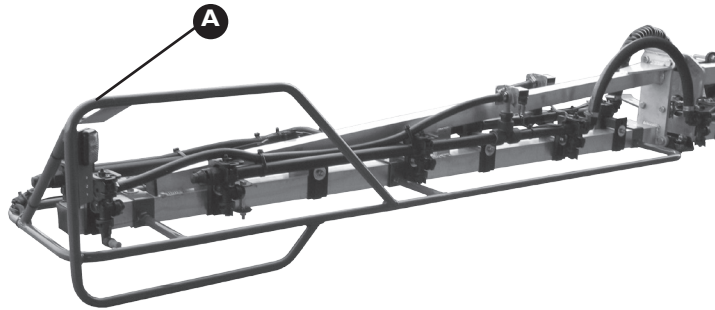


Item	Part No	Description	Quantity
A	GA5018555	Right Fold Cylinder	1
	GA5018557	Left Fold Cylinder	1
B-1	L001A	Fold Cylinder Pin	4
B-2	GA5001223	E-Clip	4
C	GA4656505	Right Connection Clevis	1
	GA4656510	Left Connection Clevis	1

Item	Part No	Description	Quantity
D	F70107A	Mounting Bolt Plate	8
E-1	GA5000265	M12 x 120mm Bolt	16
E-2	GA5012461	M12 Nyloc Nut	16
E-3	GA5000577	12mm Washer	32
F	GA4656515	Right Boom Clevis	1
	GA4656520	Left Boom Clevis	1



## BOOM END PROTECTORS

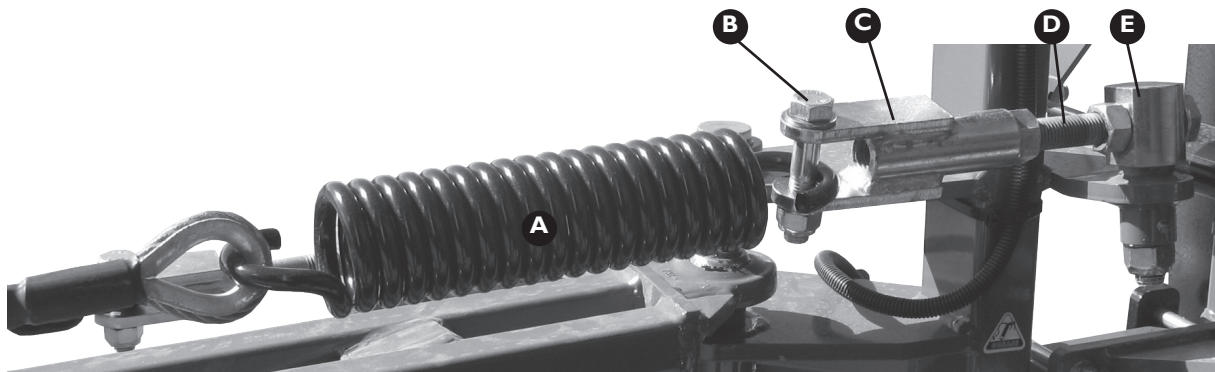


Item	Part No	Description	Quantity
A	GA4656314	Right Boom End Protector	
		Bar	1
	GA4656315	Left Boom End Protector	
		Bar	1

Item	Part No	Description	Quantity
B-1	GA5004741	M8 x 75mm Bolt	4
B-2	GA5004917	M8 Nyloc Nut	4
B-3	GA5002597	3/8" x 1 1/4" Washer	8

Complete Kit available containing 2 End Protectors and all mounting hardware Part No GA4901385

## BOOM CABLE TENSIONER ASSEMBLY

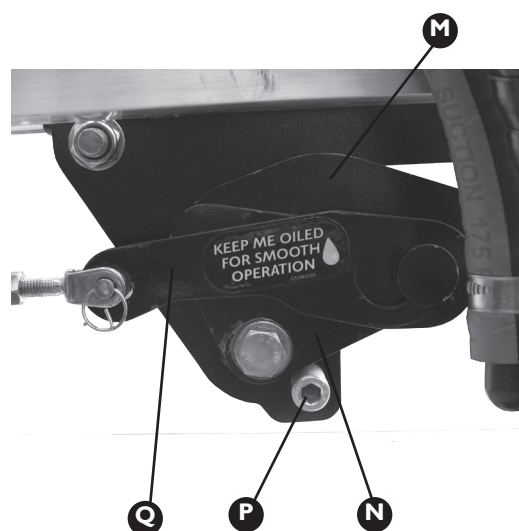
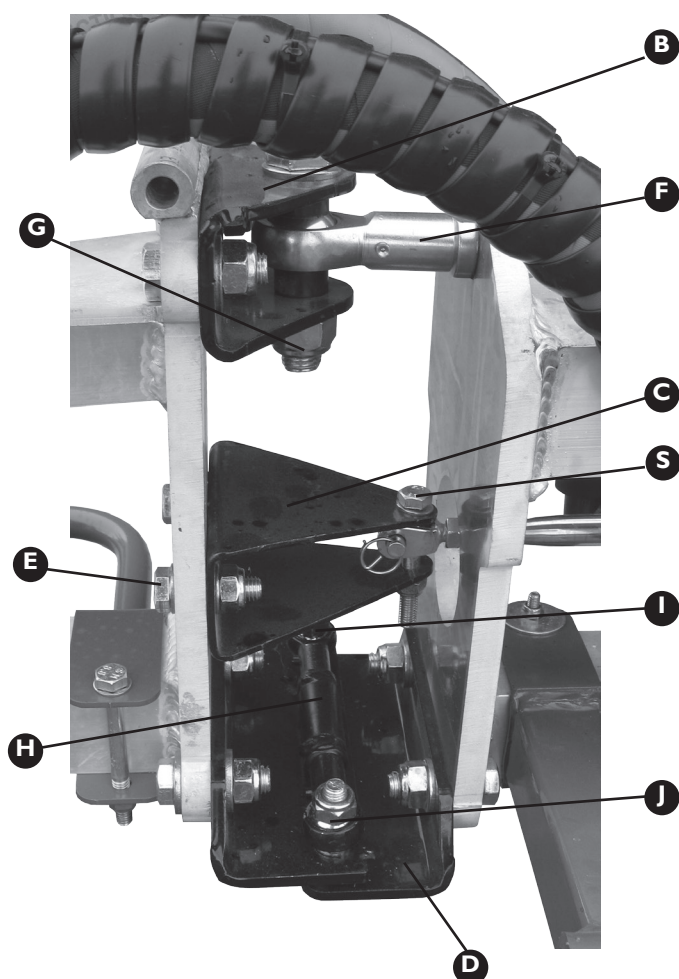
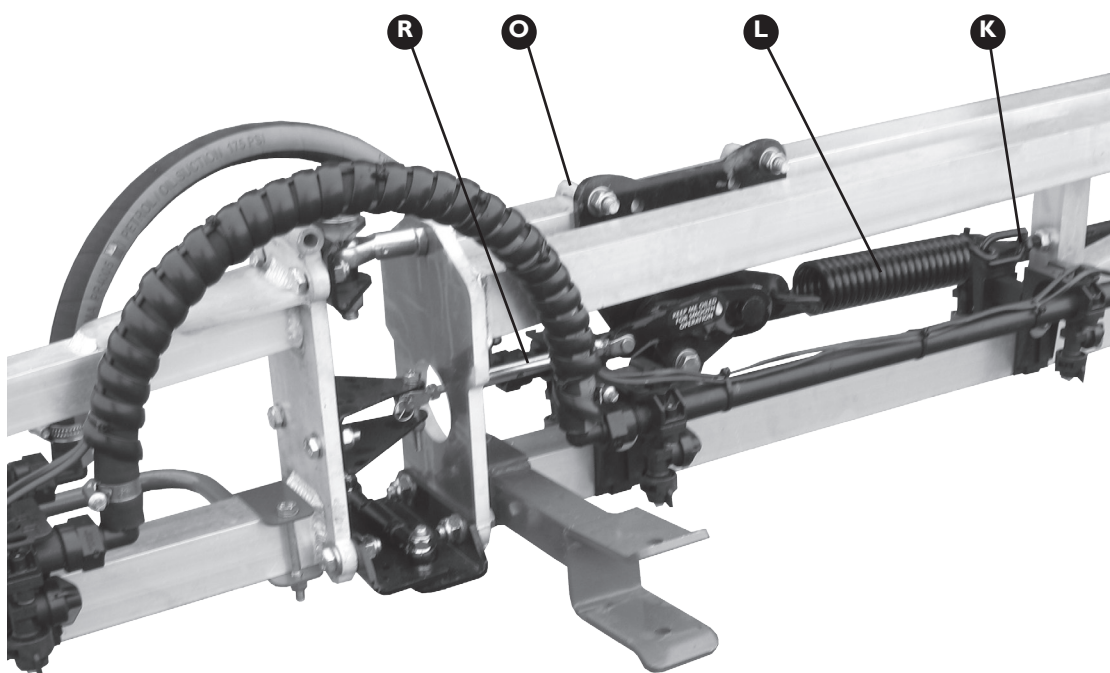


Item	Part No	Description	Quantity*
A	GA5010793	Cable Spring	1
B-1	GA5000955	M16 x 75mm Bolt	1
B-2	GA5001029	M16 Nyloc Nut	1
B-3	GA5001009	16mm Washer	2
C	GA4656265	Screw on Clevis	1
D-1	MACH0137	M20 Cable Bolt	1

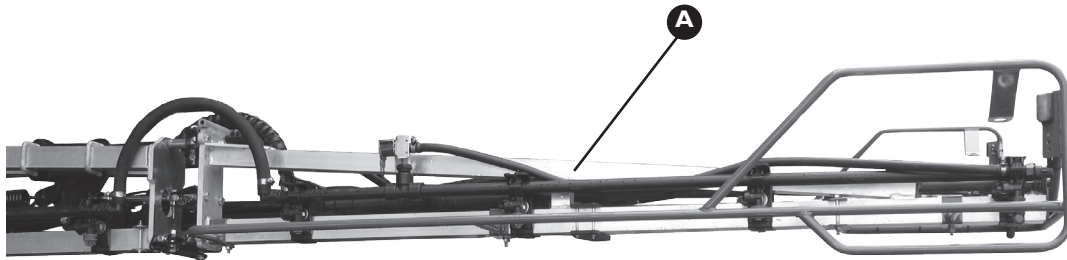
Item	Part No	Description	Quantity*
D-2	GA5048125	M20 Nut	2
D-3	GA5001739	20mm Washer	2
E-1	L006A	Pivot Housing	1
E-2	GA5012467	M20 Nyloc Nut	1
E-3	GA5001739	20mm Washer	2

\* Quantity is per side

## BREAK AWAY MECHANISM



## BREAK AWAY MECHANISM

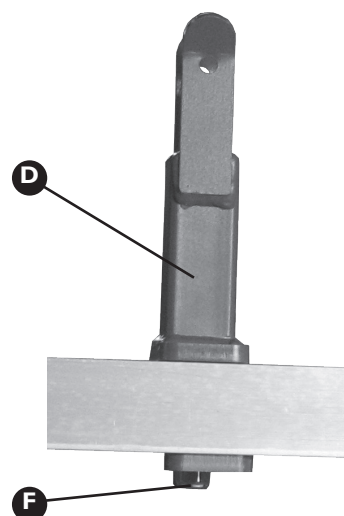
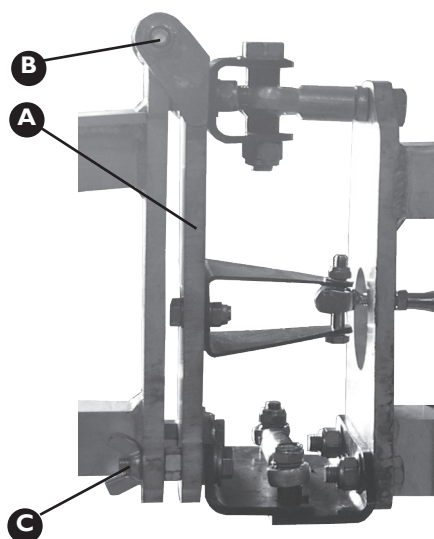


Item	Part No	Description	Quantity*
A	GA4656120	Aluminium Breakaway (2m)	1
B	GA4502095	Top Breakaway Bracket	1
C	GA4502100	Middle Breakaway Bracket	1
D	GA4502105	Bottom Breakaway Bracket	2
E-1	GA5011231	M12 x 35mm Bolt	8
E-2	GA5012461	M12 Nyloc Nut	8
E-3	GA5000577	12mm Washer	16
F-1	GA5014469	16mm Female Rod End	1
F-2	GA5011287	M16 x 40mm Bolt	1
F-3	GA5001043	16mm Washer	1
F-4	GA5001051	16mm Spring Washer	1
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
J-2	GA5000141	M10 Nyloc Nut	1

Item	Part No	Description	Quantity*
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	Torque Multiplier Plate	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

\* Quantity per side

## FLIP OVER END MECHANISM



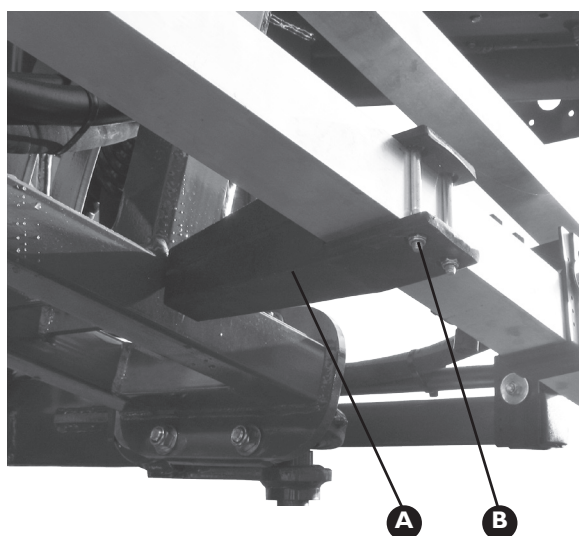
Item	Part No	Description	Quantity#
A	GA4656110	Pivot Plate Assembly	1
B-1	GA5066910	M10 x 160mm Bolt	1
B-2	GA5000141	M10 Nyloc Nut	1
B-3	GA5000117	10mm Washer	2
C-1	GA5000335	M12 x 60mm Bolt	2
C-2	GA5000559	M12 Nut	2

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

\* Not shown in photos

# Quantity per side

## RUBBER BUMP STOP

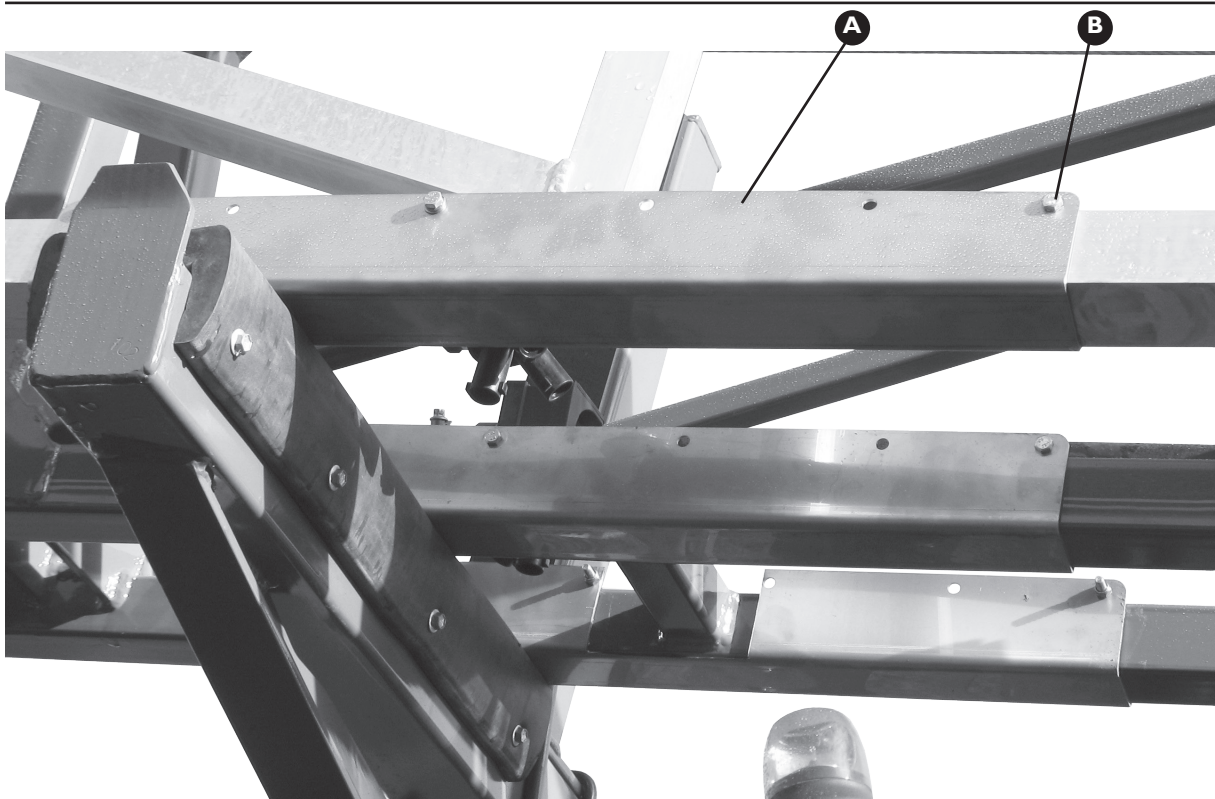


Item	Part No	Description	Quantity*
A	GA5006225	Boom Bump Stop	1
B-1	GA5004103	M6 x 70mm Bolt	2
B-2	GA5048115	M6 Nyloc Nut	2
B-3	GA5004437	6mm Washer	4

\* Quantity per side



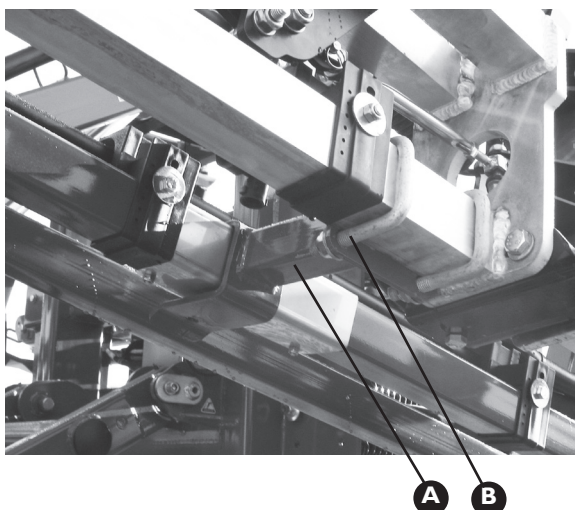
## BOOM PROTECTORS



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

\* Quantity per side

## BOOM FOLD SUPPORT BRACKET



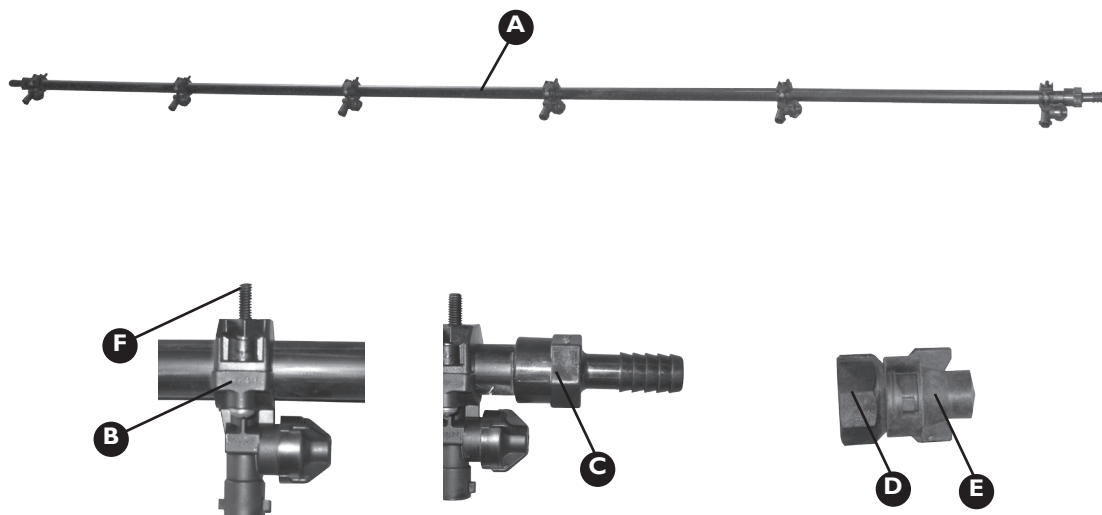
Item	Part No	Description	Quantity*
A	GA4656281	Boom Fold Bracket <sup>#1</sup>	1
B-1	GA5011251	M12x52mmx80mm U Bolt	2
B-2	GA5012461	M12 Nyloc Nut	4
B-3	GA5000577	12mm Washer	4

\* Quantity per side

<sup>#1</sup> Used on Aluminium Outer Wings Only



## BOOM LINE PLUMBING



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

Item	Part No	Description	Quantity
B	QJ17560A	Teejet Nozzle Body <sup>#1#2</sup>	*
C	HBF075	3/4" Hose Barb (Female)	*
D	400278	3/4" Adapter	*
E	19843-NYR	Shut Off Cap	*
F-1	GA5003621	M8 x 16mm Bolt (Plastic) <sup>#2</sup>	*
	GA5011465	M8 x 16mm Bolt (Steel) <sup>#2</sup>	*
F-2	GA5003623	M8 Plastic Nut <sup>#2</sup>	*
	GA5004917	M8 Nyloc Nut <sup>#2</sup>	*

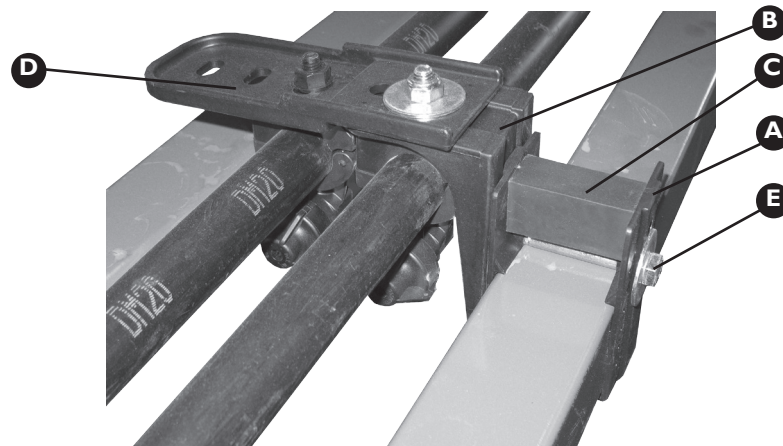
Note: All poly boom manifolds come with 50cm hole spacing and 3/4" BSP threaded ends, different spacing available upon request.

<sup>#1</sup>For full range of Teejet Nozzles and Accessories refer to Teejet Catalogue or [www.teejet.com](http://www.teejet.com)

<sup>#2</sup>Note on dual line booms the line closest the nozzle bracket has the plastic bolt replaced with a metal one.

\* Quantity dependant on boom configuration

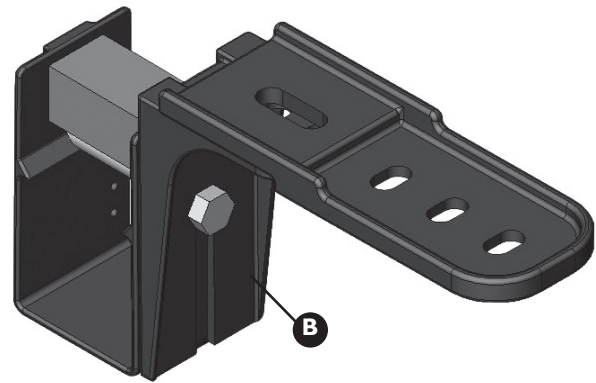
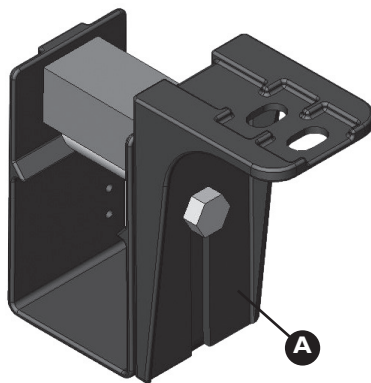
## ADJUSTABLE NOZZLE BRACKETS



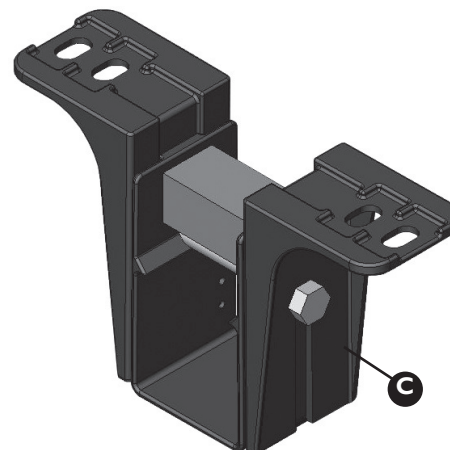
Item	Part No	Description	Quantity
A	GA5018259	"U" Nozzle Bracket	
		to suit 50mm RHS	1
B	GA5018257	"L" Nozzle Bracket	1
C	GA5066965	Spacer	1
D	GA5018255	Dual Boom Nozzle	
		Extension Bracket	1

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

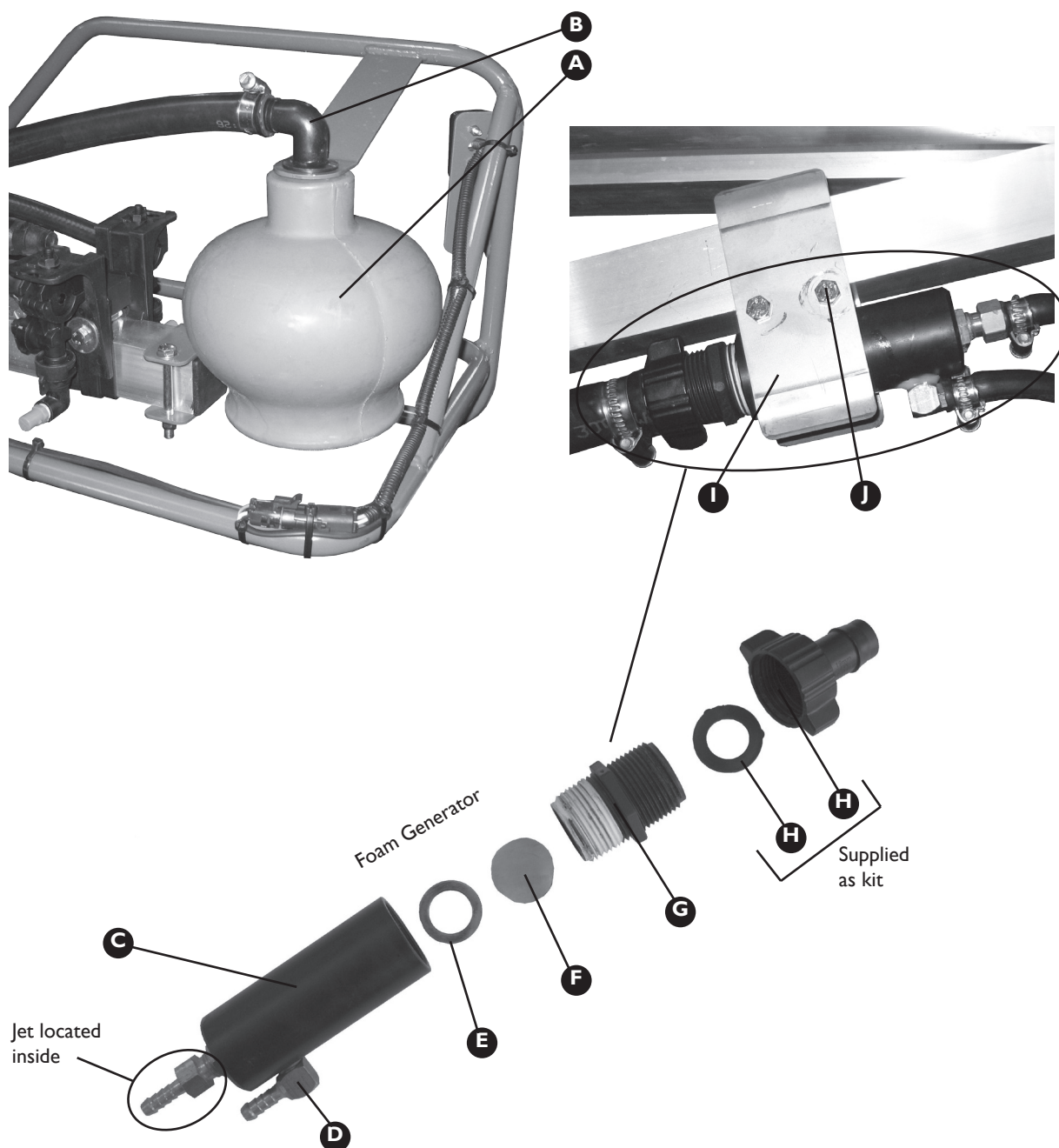
## PRE PACKAGED KITS



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	



## FOAM MARKER COMPONENTS



Item	Part No	Description	Quantity
A	GA5008491	Foam Accumulator	1
B	118319	Elbow	1
C	FGEN-COM	Foam Generator Outer	1
D	GA5066950	1/4" x 1/8" Elbow	1
E	GA5002497	3/4" Copper Washer	1
F	GA4948390	Mesh Screen	1

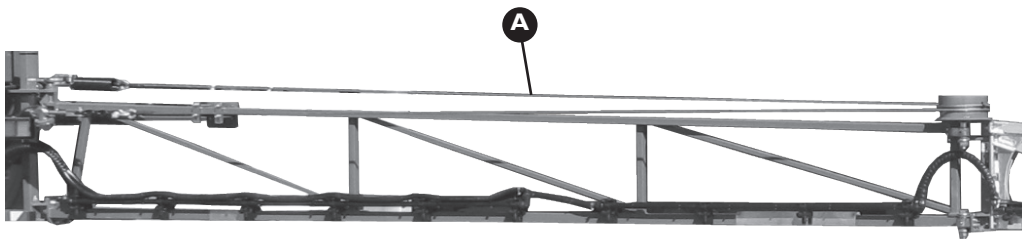
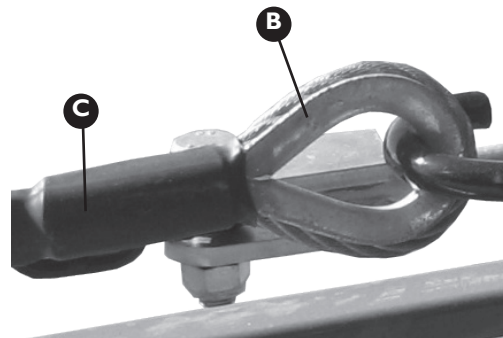
Item	Part No	Description	Quantity
G	NIP100-SH	1" Nipple	1
H	GA5007621	19mm x 1" Barb	1
I	F70239A	Generator Bracket	2
J-1	GA5004097	M6 x 60mm Bolt	2
J-2	GA5048115	M6 Nyloc Nut	2
J-3	GA5004437	6mm Washer	

\* Note for other foam marker components refer to Chapter 9: Foam Marker

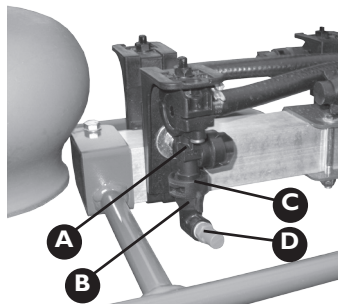
## BOOM CABLE

Item	Part No	Description	Quantity*
A	GA5000073	Cable	10.33m
B	GA5000215	Loop	2
C	GA5005391	Ferrule	2

\* Quantity is per side



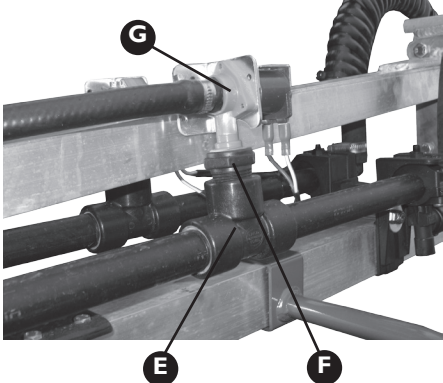
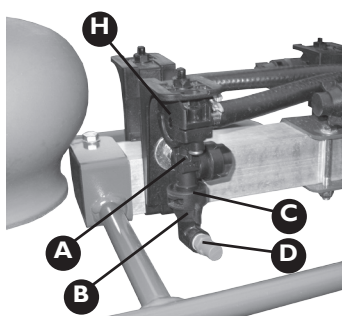
## MANUAL FENCE LINE NOZZLE



Item	Part No	Description	Quantity
A	58140-NYB	Manual Nozzle Body	1
B	QJ4676-90-1/4-NYR 90 Degree	Nozzle Adapter	1
C	CPI9438-EPR	Seal <sup>#</sup>	1
D	BI/4XPI0L	Left Fence Line Nozzle	1
	BI/4XPI0R	Right Fence Line Nozzle	1
E	CP38936-NYB	End Barb Adapter	1

<sup>#</sup> Not shown in photo

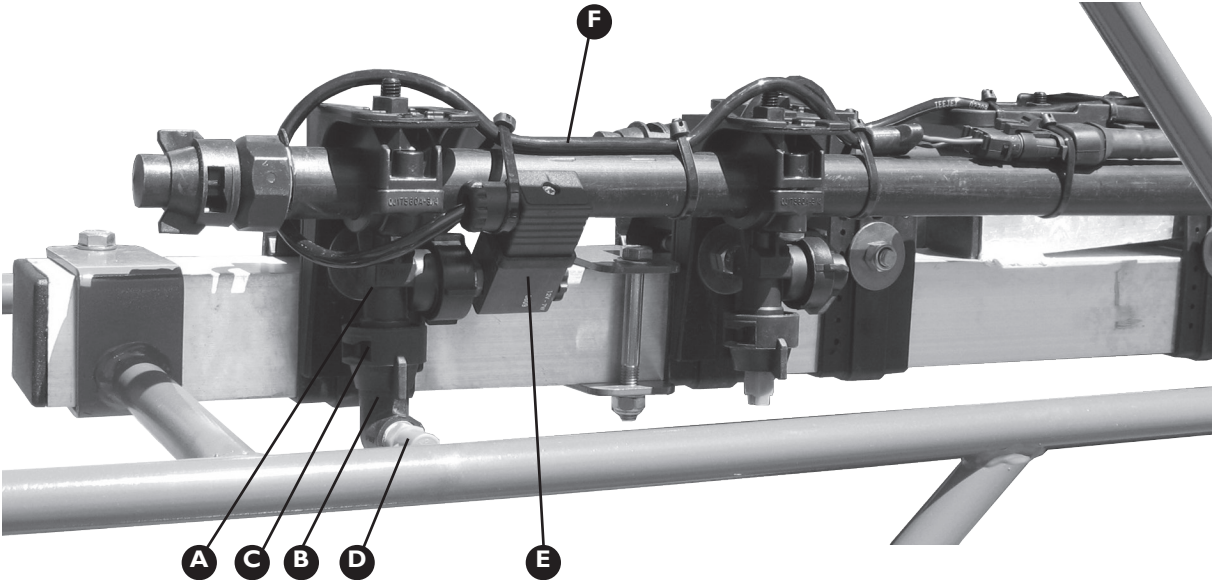
REMOTE FENCE LINE NOZZLES



Item	Part No	Description	Quantity
A	58140-NYB	Manual Nozzle Body	1
B	QJ4676-90-1/4-NYR	90 Degree Nozzle Adapter	1
C	CPI9438-EPR	Seal <sup>#</sup>	1
D	BI/4XPI0L	Left Fence Line Nozzle	1
	BI/4XPI0R	Right Fence Line Nozzle	1

Item	Part No	Description	Quantity
E	TEE075	3/4" Tee	1
F	RB075-050	3/4" x 1/2" Reducing Bush	1
G	GA501842I	Fence Line Solenoid	1
H	CP38936-NYP	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.  
Note: Nozzle bodies are the same for solenoid operated fence line nozzles as manual ones.  
<sup>#</sup> Not shown in photo  
\* Solenoid repair kit available Part No. GA5018419



Item	Part No	Description	Quantity
A	58140-NYB	Manual Nozzle Body	1
B	QJ4676-90-1/4-NYR	90 Degree Nozzle Adapter	1
C	CPI9438-EPR	Seal	1
D	BI/4XPI0L	Left Fence Line Nozzle	1
	BI/4XPI0R	Right Fence Line Nozzle	1

Item	Part No	Description	Quantity
E	ECS17560A-3/4-NYB	Fence Line Solenoid	1
F	58480E-05-FC	Solenoid Extension Cable	1



# 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 01 6/1/10

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

## ELECTRICAL COMPONENTS

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Part No	Description
GA5004477	Round 7 Pin Trailer Plug



Part No	Description
GA5060350	Adapter to suit american style tractors



## LIGHTS

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



## RAVEN (AMP) ELECTRICAL CONNECTORS

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Part No	Description
4084001014	Male Flow Meter Connector



Part No	Description
4084001015	Female Flow Meter Connector



Part No	Description
4084004040	Male Speed Cable Connector



Part No	Description
4084001016	Female Speed Cable Connector



Part No	Description
4084001062	Male Pin for Speed and Flow Meter
	Connector



Part No	Description
4084001063	Female Pin for Speed and Flow
	Meter Connector



## RAVEN (AMP) ELECTRICAL CONNECTORS\*

Item	Part No	Description
A	4084001017	Male Loom Connector for 440 and 450 Consoles (16 Pin)
B	GA5049175	Connector Backing Shell



Part No	Description
4084001018	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
4084001162	Male Pin for Raven Loom Connectors

Part No	Description
4084001163	Female Pin for Raven Loom Connectors

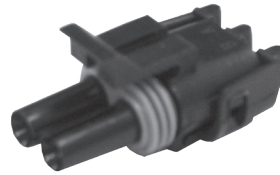


\*These connectors are used on all Raven looms but are made by AMP

## ELECTRICAL CONNECTORS

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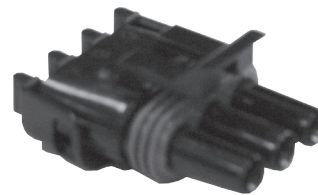
Part No	Description
GA5001351	Male 2 Pin Plug



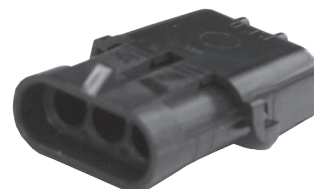
Part No	Description
GA5007381	Female 2 Pin Plug



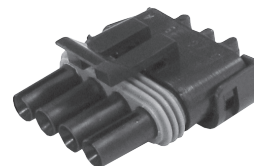
Part No	Description
GA5002211	Male 3 Pin Plug



Part No	Description
GA5048550	Female 3 Pin Plug



Part No	Description
GA5007385	Male 4 Pin Plug



Part No	Description
GA5007383	Female 4 Pin Plug

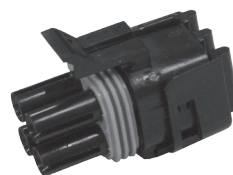




## ELECTRICAL CONNECTORS

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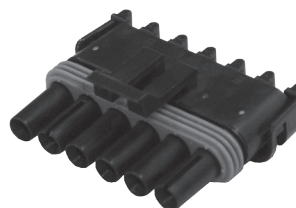
Part No	Description
GA5049000	Male Square 4 Pin Plug



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



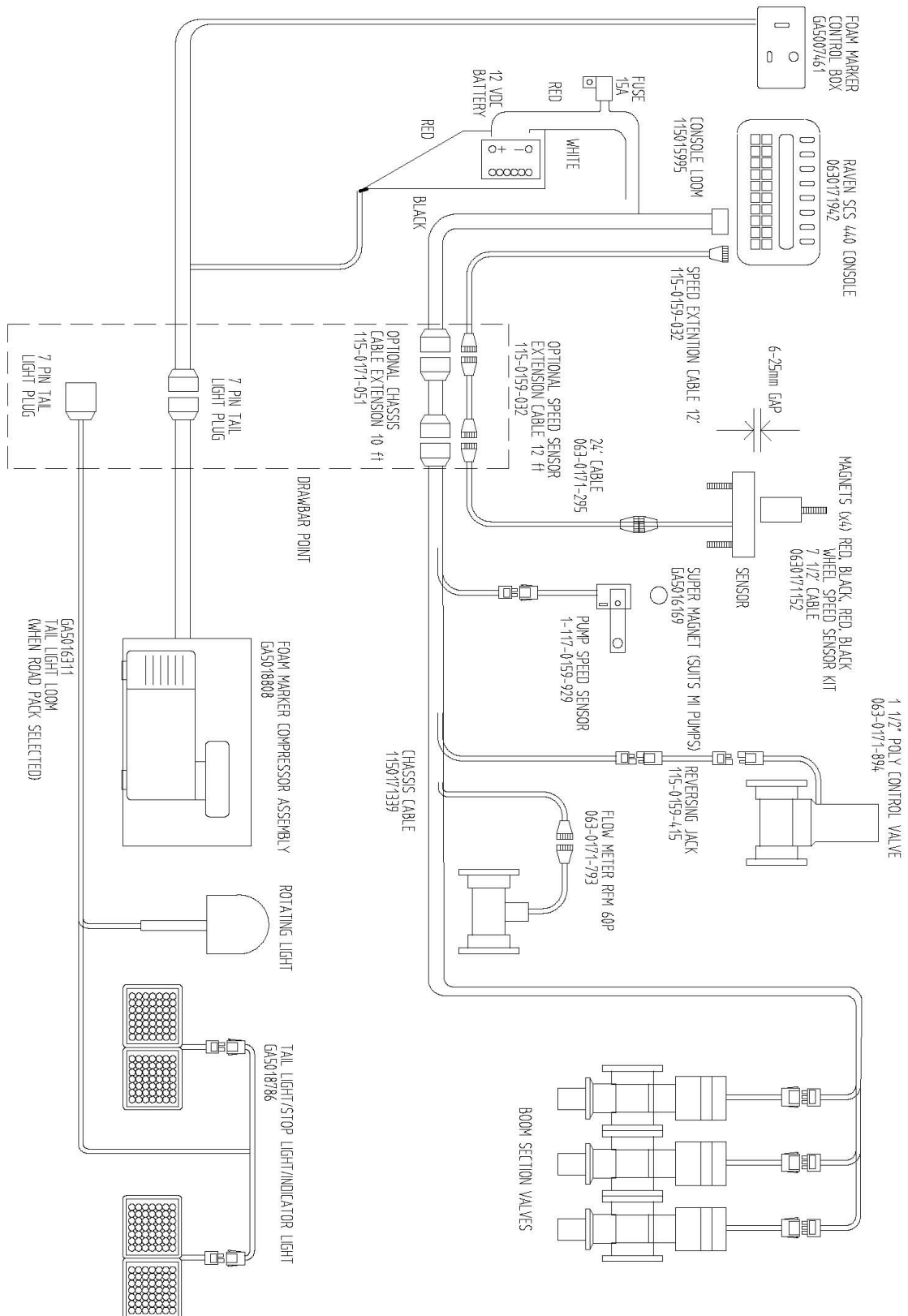
Part No	Description
GA5016617	Male Pin
GA5016619	Female Pin



Part No	Description
GA5014857	Rubber Seal (Green)



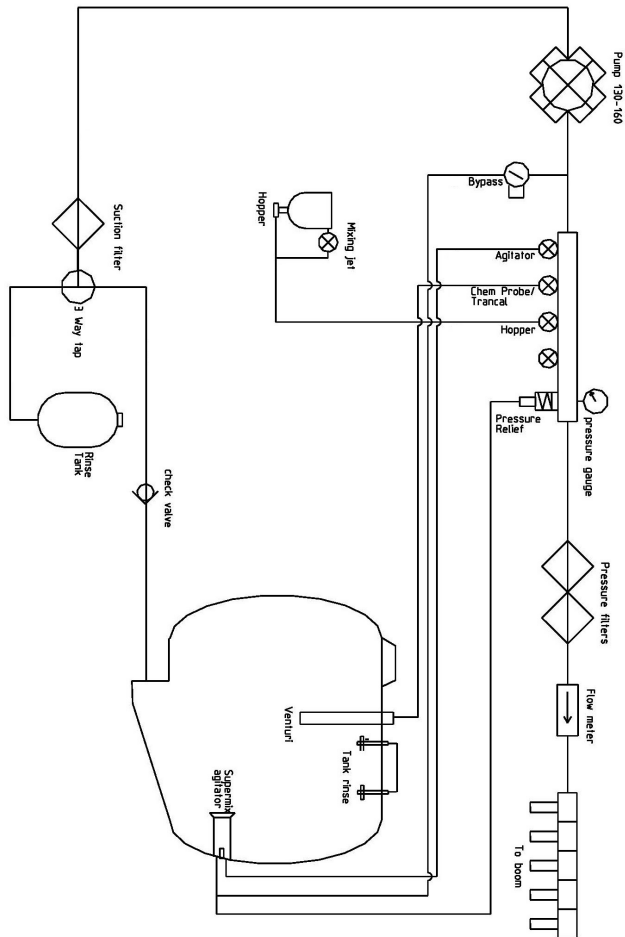
## WIRING DIAGRAM





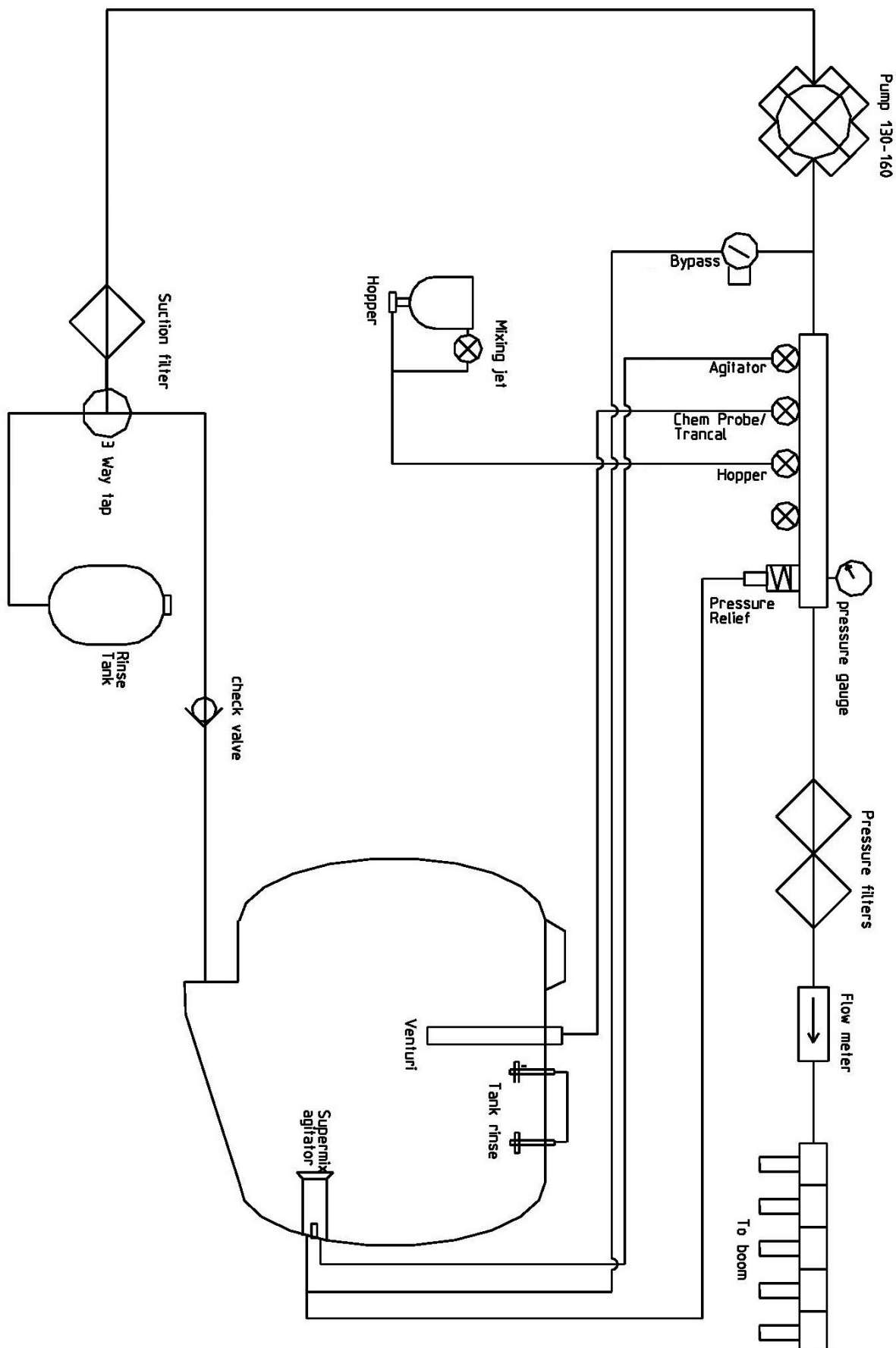
# CHAPTER 16

## SCHEMATICS



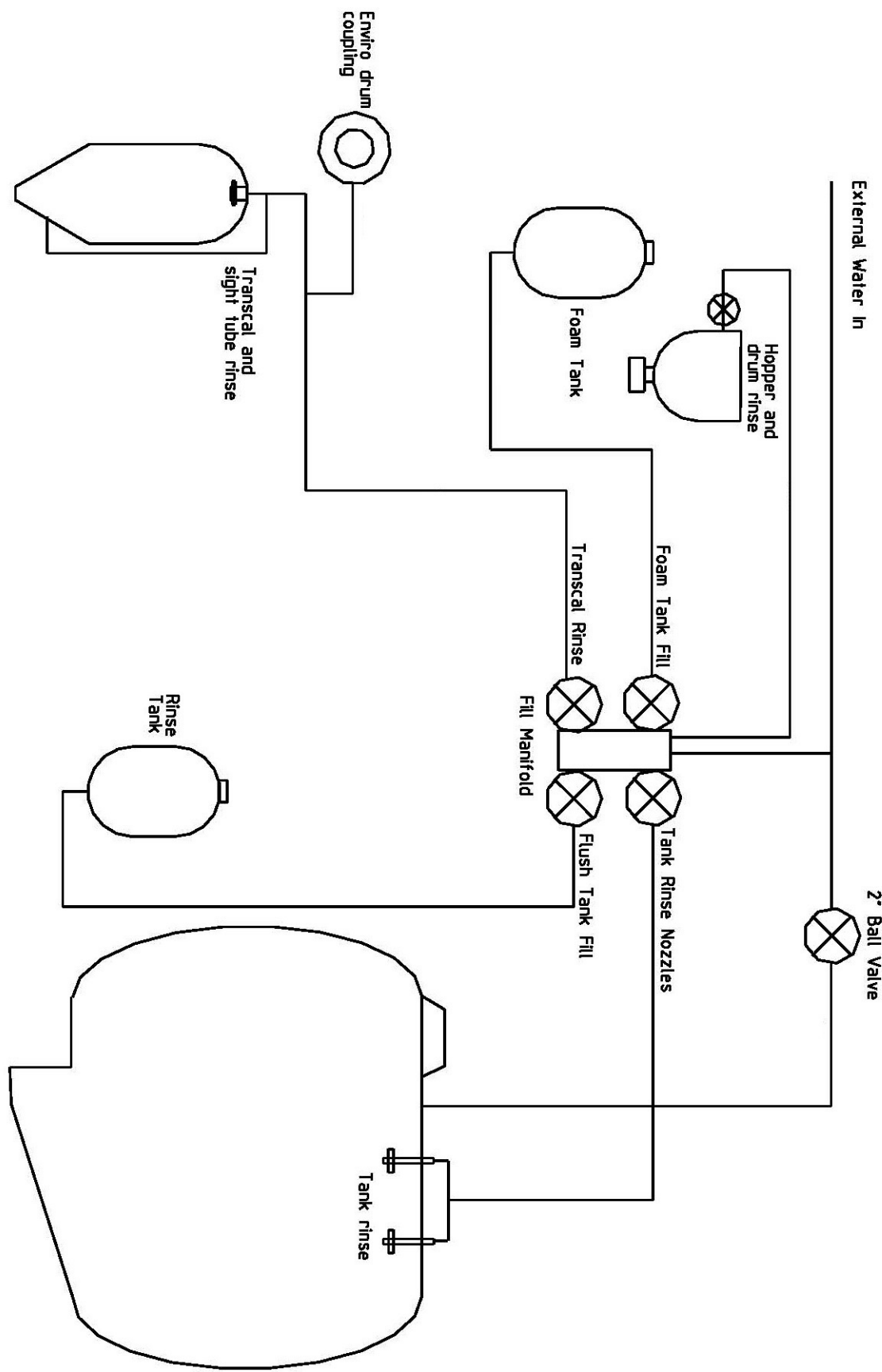
Pressure Schematic.....	16-2
Rinse Water Schematic.....	16-3
Foam Marker Schematic.....	16-4

# PRESSURE SCHEMATIC

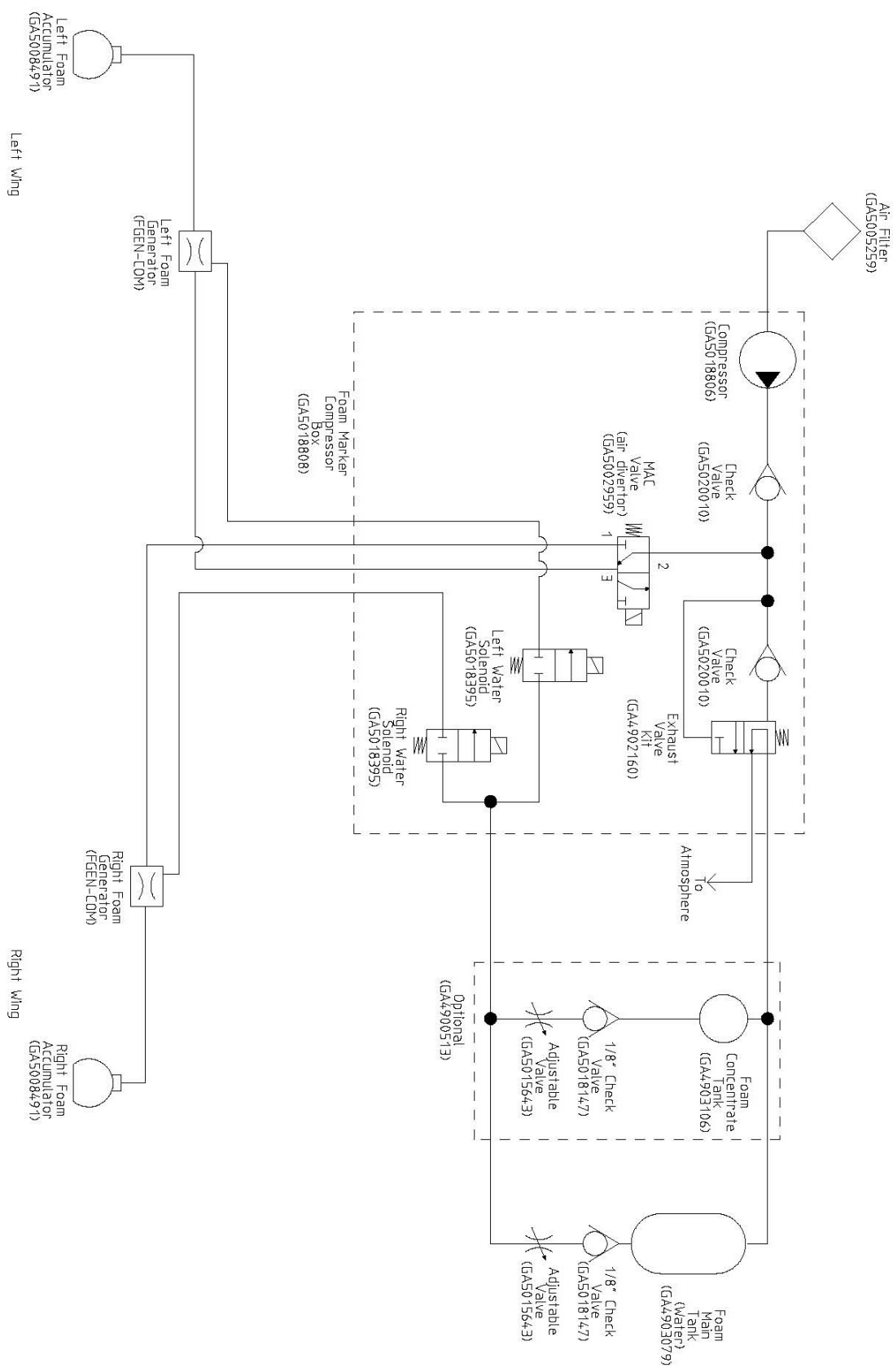




# RINSE WATER SCHEMATIC



FOAM MARKER SCHEMATIC



# CHAPTER 17

## DECALS



Main Tank Decals. ....	17-2
Complete Decal Kit .....	17-2
Pressure Manifold Decal.....	17-3
Fill Station Decal.....	17-3
Wheel Nut Warning Decal.....	17-4
Aluminium Boom Decal .....	17-4
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Drain Only Decal .....	17-5
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COMPLETE DECAL KIT



Part No	Description
GA5062065	Complete Prairie Special Decal Kit*

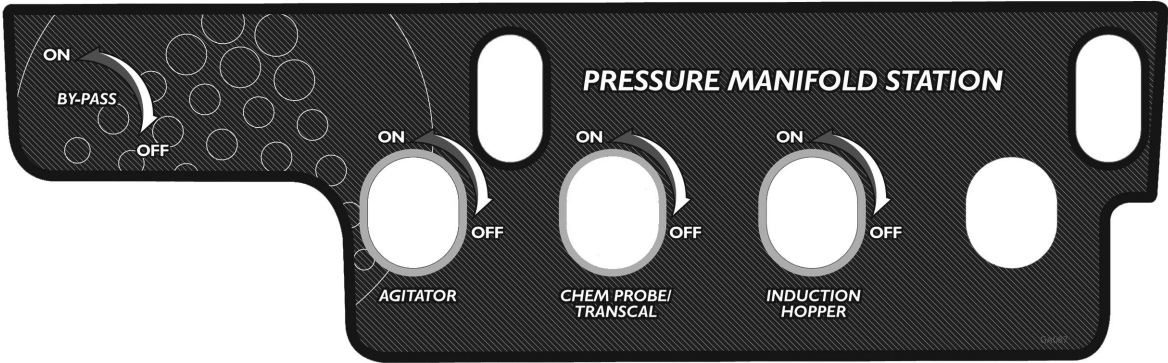
\* Does not include tank decals

MAIN TANK DECAL



Part No	Description	Quantity
GA5062355	Main Tank Decals	2

# PRESSURE MANIFOLD DECAL



Part No	Description	Quantity
GA087	Pressure Manifold Decal	1

# FILL STATION DECAL



Part No	Description	Quantity
GA5060715	Fill Station Decal	1



## WHEEL NUT WARNING DECAL

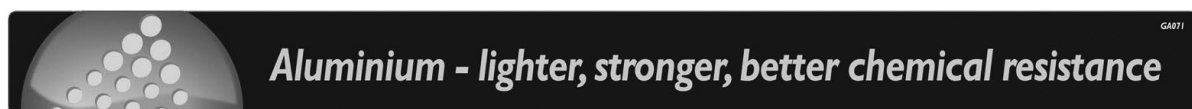
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Part No	Description	Quantity
GA5017555	Wheel Nut Warning Decal	2

## 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	2



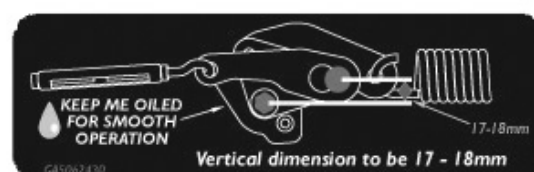
## DRAIN ONLY DECAL

Part No	Description	Quantity
GA5015971	Drain Only Decal	3



## BREAK AWAY DECAL

Part No	Description	Quantity
GA5062430	Breakaway Decal	2




## GREASE DECAL


Part No	Description	Quantity
GA222	Grease Decal	24



GENERAL WARNING DECAL




**WARNING! BE ALERT! YOUR SAFETY MAY BE AT RISK! THE INFORMATION BELOW EXPLAIN THESE AND OTHER ITEMS REQUIRING YOUR ATTENTION. READ THE OPERATOR MANUAL BEFORE OPERATION THIS EQUIPMENT.**



**WARNING**

- THE TARE WEIGHT OF THIS SPRAYER IS APPROXIMATELY \_\_\_\_\_ kg. MAKE SURE THIS WEIGHT DOES NOT EXCEED THE TOWING CAPACITY OF THE VEHICLE TO WHICH THIS SPRAYER IS ATTACHED. ENSURE THE SPRAYER COMPLIES WITH ALL RELEVANT ROAD REGULATIONS FOR AGRICULTURAL MACHINERY.
- MAXIMUM SPEED WITH TANK LOADED IS 20KM/H, MAXIMUM SPEED WITH TANK EMPTY IS 40KM/H.
- ALWAYS SUPPORT THE SPRAYER WITH A SUITABLE STAND IF REMOVING THE WHEELS.
- USE RELEVANT SAFETY PROTECTION CLOTHING AND EQUIPMENT WHEN HANDLING CHEMICALS. REFER TO CHEMICAL MANUFACTURERS LABEL FOR REQUIREMENTS.
- IF OPERATED INCORRECTLY THIS MACHINE COULD CAUSE SERIOUS INJURY OR DEATH.
- READ THE OPERATOR'S MANUAL FOR ALL SAFETY PROCEDURES.
- CHECK WHEEL NUTS DAILY.
- ENSURE THAT THE LOCKING MECHANISMS ON THE BOOM WHEELS ARE ENGAGED BEFORE MOVING THE SPRAYER.
- ENSURE THAT THE FLIP OVER BREAKAWAYS ARE FOLDED INTO THE TRANSPORT POSITION BEFORE TOWING THE SPRAYER ON PUBLIC ROADS.



**PRECAUTION**

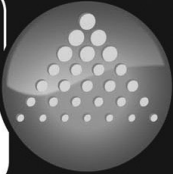
- AVOID BOOM DAMAGE. SPEED MUST BE REDUCED WHEN DIRECTIONAL CHANGES ARE MADE.
- FLUSH CHEMICALS FROM THE SPRAYER AFTER USE.

**CAUTION**

- DO NOT FOLD BOOMS WHILST THE SPRAYER IS MOVING.
- THE WATER CONTAINED IN THE RINSE WATER TANK IS NOT SUITABLE FOR DRINKING.
- A PERMIT IS REQUIRED IN VICTORIA TO TOW GROUND GLIDERS OF 28 METRES OR MORE ON PUBLIC ROADS. CHECK YOUR STATE ROADS AUTHORITY TO ENSURE COMPLIANCE.

**DANGER**

- KEEP CLEAR OF OVERHEAD POWERLINES, AS CONTACT CAN CAUSE DEATH.
- CHECK THE HEIGHT OF THE SPRAYER BEFORE TRAVELLING UNDER OBSTACLES.
- DO NOT OPEN BOOMS UNLESS THE SPRAYER IS SECURELY MOUNTED TO THE TOWING VEHICLE.



GA5062305

Part No	Description	Quantity
GA5062305	General Warning Decal	1

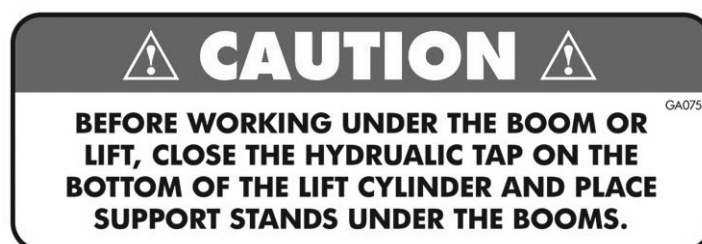
TRANSCAL DECAL

Part No	Description	Quantity
GA5062085	Transcal Tank Decal	1

17-6

GOLDACRES PRAIRIE SPECIAL PART CATALOGUE

## CAUTION SUPPORT BOOM DECAL



Part No	Description	Quantity
GA075	Caution Support Boom Decal	1

## DANGER SUPPORT BOOM DECAL



Part No	Description	Quantity
GA5007635	Danger Support Boom Decal	1

## INDUCTION HOPPER DECALS



Part No	Description	Quantity
GA5062100	Chemical Induction Decal	1
GA208	Induction Hopper Warning Decal	1

## DECAL PLACEMENT LIST

Part No	Position on Sprayer
GA5062065	Located on either side of the main spray tank
GA087	Located on top of pressure manifold in front of sprayer platform
GA5060715	Located on fill manifold on the left side of the sprayer next to the H-frame
GA5017555	Located on the outside face of both wheels
GA5005385	Located on upper chord of aluminium boom section
GA5015991	Located on both side of the boom tower
GA5015971	Located on left side of chassis next to the induction hopper; on the right side of the chassis under the rise water tank
GA5060580	Locate on the rear face of the boom breakaway mechanism
GA222	Located at both ends of the centre section delta links, on the rear boom cable mounting points, on the upper and lower inner boom pivot points
GA5062305	Located on the left side of the chassis next to the steps
GA075	Located on rear chassis cross member
GA5007635	Located on rear chassis cross member
GA5062100	Located on the front of the induction hopper
GA208	Located on the chassis next to the induction hopper
GA5062085	Located on the transcal tank



# CHAPTER 18

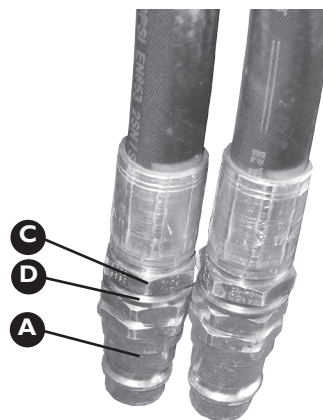
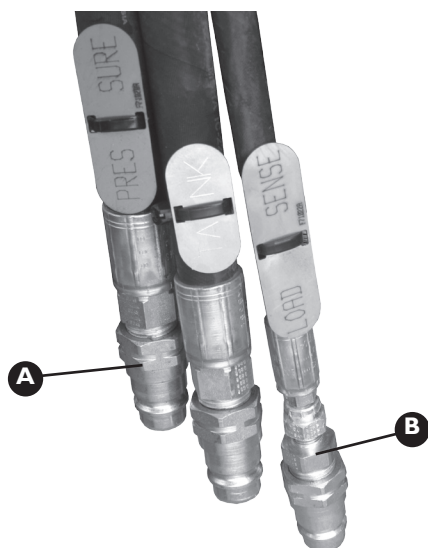
## HYDRAULICS



Quick Release Couplings . . . . .	18-2
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## QUICK RELEASE COUPLINGS

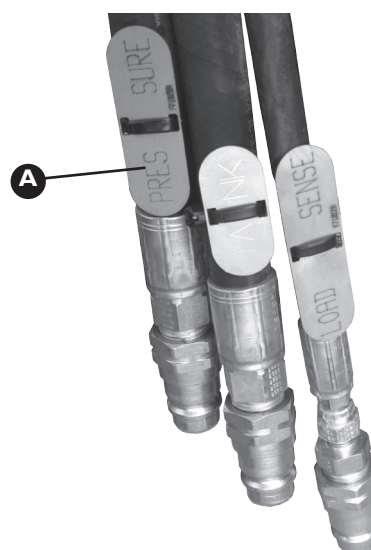


Item	Part No	Description	Quantity*
A	R81-08M	1/2"BSPP Female Push/Pull	
		Quick Release Coupling	5
B	S27-0804	1/2"BSPT-1/2"BSPT Straight	
		Hydraulic Nipple	1
C	35B-08	1/2"BSPP Lock Nut	2
D		Refer to page 18-3	

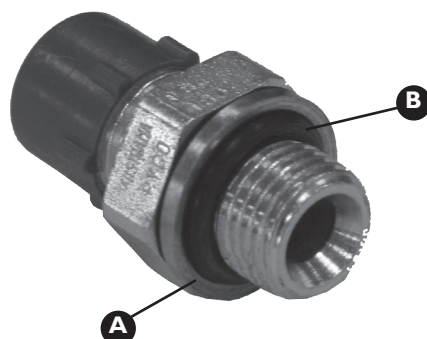
\* Quantity will vary depending on sprayer options

## HOSE ID TAGS

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	36B-04	1/4" Retaining Washer
	36B-06	3/8" Retaining Washer
	36B-08	1/2" Retaining Washer
	36B-12	3/4" Retaining Washer

Item	Part No	Description
B	RO-BP04	1/4" Hydraulic O-Ring
	RO-BP06	3/8" Hydraulic O-Ring
	RO-BP08	1/2" Hydraulic O-Ring
	RO-BP12	3/4" Hydraulic O-Ring

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

## HYDRAULIC HOSES

Part No	Description
HL03-GA	1/2" Hydraulic Hose, Tractor to Lift Cylinder, 1 per machine
HL01-GA	1/4" Hydraulic Hose, Tractor to Fold Cylinders, 2 per machine
HL19-GA	1/4" Hydraulic Hose, Fold Cylinder to Fold Cylinder Cross over link, 1 per machine
GA5067093	1/4" Hydraulic Hose, Tractor to Tilt Cylinder, 4 per machine

For hydraulic pump drive hoses refer to Chapter 2: Pumps



# CHAPTER 19

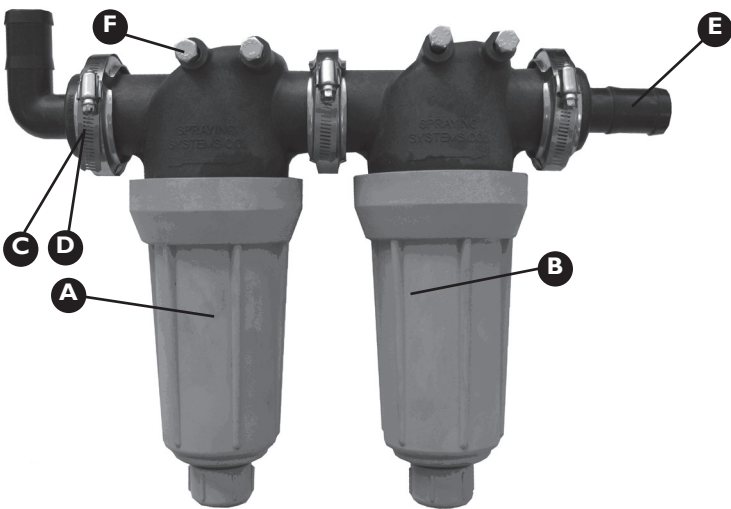
## FILTRATION & HOSE



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PRESSURE FILTERS

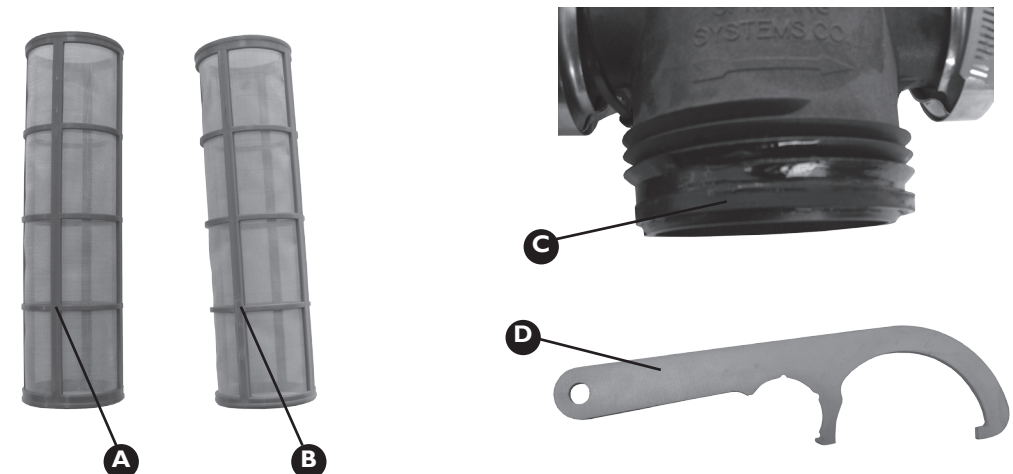


Assembly Part No GA4903066

Item	Part No	Description	Quantity
A	AAB126ML-F75-80	Filter with 80 Mesh Screen	1
B	AAB126ML-F75-100	Filter with 100 Mesh Screen	1
C	FC200	Screw Clamp	3
D	I50G	Gasket	3
E	M200I25BRB	1 1/4" Hose Barb to Flange	1

Item	Part No	Description	Quantity
F-1	GA5011503	M8 x 140mm Bolt	4
F-2	GA5004917	M8 Nyloc Nut	4
F-3	GA5003643	8mm Washer	8
G	M200I25BRB90	1 1/4" Poly Elbow to Flange	1

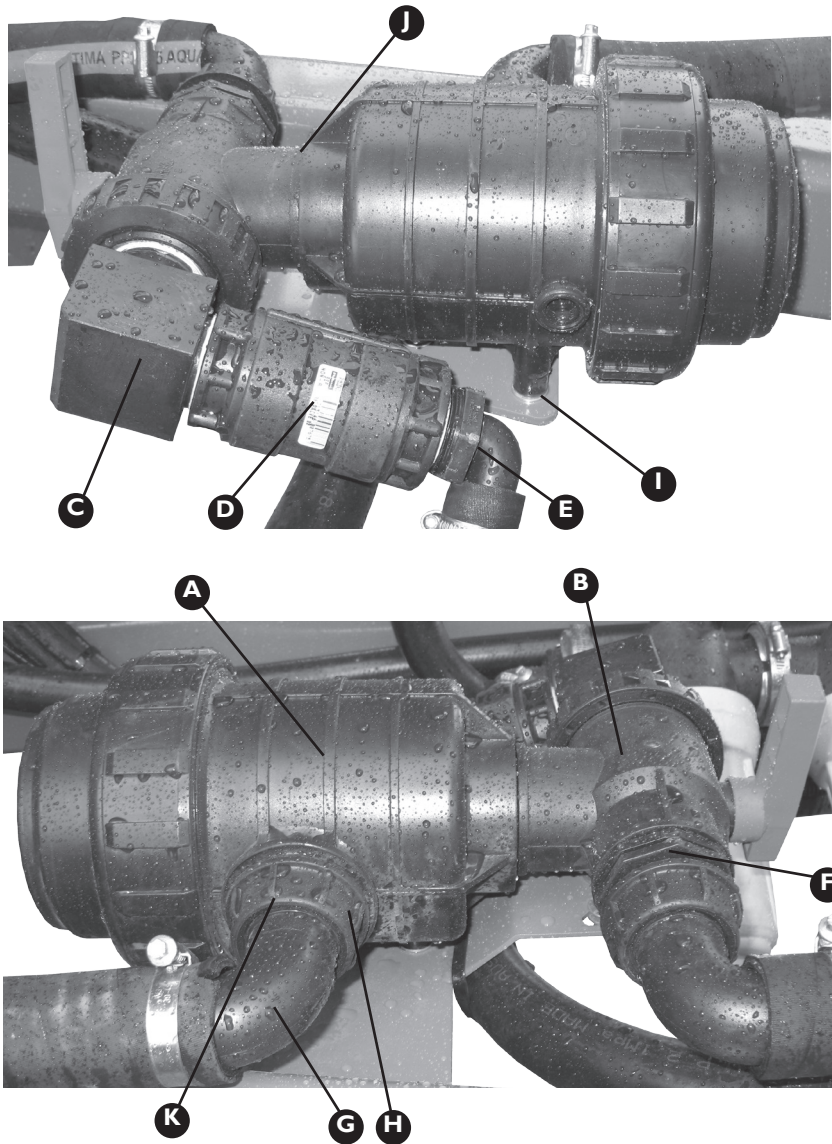
REPLACEMENT PRESSURE FILTER PARTS



Item	Part No	Description
A	CPI5941-4-SSPP	80 Mesh Screen (Blue)
B	CPI5941-5-SSPP	100 Mesh Screen (Green)
C	CP48656	O-ring
D	GA4522610	Tool for Removing Pressure Filter Housing



SUCTION FILTER

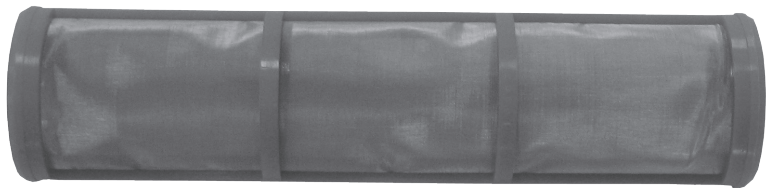


Kit Part No GA4903060			
Item	Part No	Description	Quantity
A	316063	1 1/2" Suction Filter w/ 50 Mesh*I	1
B	4542236	3 Way Ball Valve 1 1/2"	1
C	L050A	Elbow 1 1/2" x 1 1/4"	1
D	GA5017361	1 1/4" Check Valve	1
E	HB125/100-90	1 1/4" x 1" Poly Elbow	1
F	2502060	1 1/2" Poly Nipple	1
G	116640	1 1/2" Poly Elbow	2

Item	Part No	Description	Quantity
H	200060	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	G10061	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

# FOAM MARKER FILTER



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

For filter assembly refer to Chapter 9 Foam Marker

# AIR FILTER



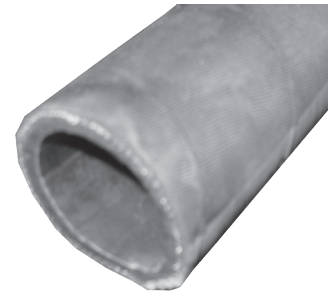
Part No	Description
GA5005259	Air Filter

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

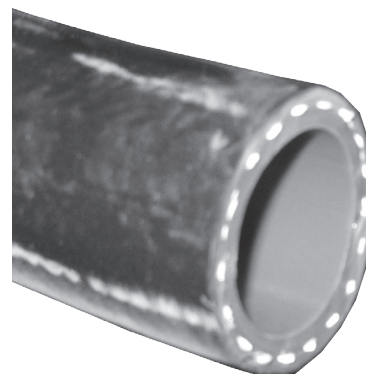
Part No	Description
HOS20S	20mm Suction Hose
HOS25S	25mm Suction Hose
HOS32S	32mm Suction Hose
HOS38S	38mm Suction Hose
HOS51S	51mm Suction Hose
HOS63S	63mm Suction Hose
HOS75S	75mm Suction Hose



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

## PRESSURE HOSE

Part No	Description
HOS13P	12.5mm Pressure Hose
HOS20P	20mm Pressure Hose
HOS25P	25mm Pressure Hose
HOS32P	32mm Pressure Hose
HOS38P	38mm Pressure Hose



Pressure Hose can be defined by its blue internal layer

## LAYFLAT HOSE

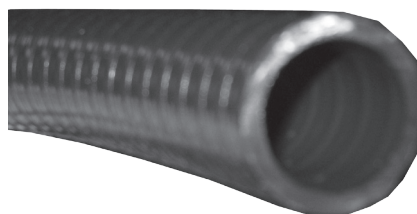
Part No	Description
GA5021395	50mm Blue Layflat Hose



## PVC HOSE

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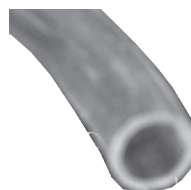
Part No	Description
HOS25PVC	25mm PVC Hose
HOS40PVC	40mm PVC Hose
HOS50PVC	50mm PVC Hose



## SIGHT TUBE HOSE

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Part No	Description
HOS12sight	12mm Clear Sight Tube Hose
HOS12Wsight	12mm Sight Tube with Wire



## FOAM MARKER HOSE

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Part No	Description
HOS7P	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
50-70/12W3	50-70mm Hose Clamp
GA5004241	60-80mm Hose Clamp



