

AUSPLOW

Australian designed and manufactured



TECHNICAL SERVICE MANUAL

VERSION 1.1

#00955

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1.0 SAFETY

1.1 SAFETY WARNING SYMBOLS



WHERE YOU SEE THIS SYMBOL, IT MEANS PAY ATTENTION, AS YOUR SAFETY AND OTHERS SAFETY COULD BE PLACED AT RISK.

There are 3 levels of alert used in this manual. They are:



DANGER!

This denotes an intrinsic hazard that would probably result in death or irreparable injury if proper precautions are not taken.



WARNING!

This denotes a hazard that can result in injury or death if proper precautions are not taken.



CAUTION!

This denotes a reminder to follow safety practices or to draw attention to items that, if ignored, could result in personal injury or damage to equipment.

1.2 GENERAL SAFETY PRECAUTIONS

Do not operate the Ausplow bin and bar without first reading this manual and ensure that all operators are fully conversant with the safe operation of the equipment.



WARNING!

- Do not undertake maintenance or adjustments under Ausplow bin and bar without ensuring the tractor park brake is securely 'ON'.
- Do not allow anyone to make any adjustments to, or ride on them whilst in motion.
- Never adjust chains or couplings attached to hydraulic motors without first switching off the hydraulics and tractor.
- DBS Auseeders are back heavy when not fitted with coulter. When unhitching and hitching DBS Auseeders, ensure wheels are properly chocked and the rear jack is placed firmly in the down position.
- Do not stand on top of any Multistream tank.
- Take the proper precautions when using chemicals, fertilisers and chemically treated seeds as per the manufacturer's instructions.
- Do not enter Multistream tanks without first taking the proper precautions. Always wear a mask and protective clothing. Ensure the lid is secured in the open position and that there is a suitable exit out of the tank. In addition, under no circumstances should anyone enter a tank without the assistance of a safety person who remains outside the tank, on the platform, to ensure a safe exit.
- Never disconnect a Multistream bin which contains product in any tank. Failure to do so could overload the implement jack or cause the bin to fall over backwards due to being back-heavy in some circumstances.
- Transporting DBS Auseeders when wings are folded presents an over height hazard. Check clearance of overhead power lines and tree branches.
- When folding wings on DBS Auseeders fitted with liquid kits, liquid from nozzles can drip, causing a hazard to eyes and skin. Ensure protective clothing and glasses are worn when in the vicinity of DBS Auseeders fitted with a liquid kit that is being folded.



CAUTION!

Ensure safety glasses and gloves are worn when handling liquid fertilisers at all times.

1.3 TRANSPORT SAFETY



WARNING!

Do not transport both Ausplow bin and bar without observing the following points:

- Ensure that all towing hitch pins are secured in position,
- Safety chains must be fitted before transporting,
- Always stow the jack(s) correctly,
- Do not transport them over 30 km/h,
- Always transport DBS Auseeders on lift ram depth stops with wing locking pins securely in place,
- Always check compliance with local transport regulations before transporting implement.



CAUTION!

- The Multistream tanks must be emptied before transporting the unit more than 5 km or at more than 10km/h,
- Before road transporting the DBS Auseeder, ensure that the wing lock pins are in position and the machine is at a suitable transport height with centre frame lift cylinders resting on depth stops (wing lift cylinder depths stops can be used to make up the additional depths stops required).
- Check that the tyre inflation is suitable for the implement weight and speed that you wish to travel, see Table 1.3.1.

• DBS	Bar (kg)	Hose Kit & Liquid (kg)	Total less Coulters (kg)	Coulters (kg)	Total with Coulters (kg)
D260-24	4,500	500	5,000	650	5,650
D260-28	To be Issued				
D260-32	7,000	600	7,600	850	8,450
D260-36	7,500	650	8,150	950	9,100
D260-42	8,300	700	9,000	1150	10,150
D260-48N	9,000	800	9,800	1300	11,100
D260-48E	9,000	750	9,750	1300	11,050
D260-54	9,700	900	10,600	1450	12,050
D260-59	11,800	950	12,750	1600	14,350
D260-70	13,050	1,050	14,100	1900	16,000
D300-32	7,100	600	7,700	900	8,600
D300-36	7,700	650	8,350	1000	9,350
D300-40	8,400	700	9,100	1150	10,250
D300-46	9,100	800	9,900	1300	11,200
D300-51	9,700	900	10,600	1450	12,050
D300-55	11,300	950	12,250	1600	13,850
D300-61	12,300	1,000	13,300	1750	15,050
D381-28	To be Issued				
D381-32					
D381-36					
D381-40					
D381-44					
D381-48					

Table 1.3.1: DBS Auseeder Weights

1.4 PREPARTION FOR TRANSPORT – CHECK LIST

The following actions should be undertaken prior to transporting DBS Auseeders:

- Check tyre pressures,
- Check that safety chains are correctly fitted,
- Check the wing fold locking safety pins are correctly fitted from the rear with lynch pins visible from the front,
- Release tine circuit hydraulic pressure and leave the accumulator hydraulic line connected to the towing tractor with the lever in the float position,
- Support centre frame rams with depth stops. Use additional depth stops from wing rams if required,
- Lift tines in the centre frame and fold back tines on wings to reduce transport width and height, and / or
- Remove the pin on the top of the turnbuckle on wings and fold wheel assemblies in to reduce transport width.

1.5 NOISE PROTECTION



CAUTION!

Always wear suitable hearing protection if subjected to prolonged exposure of loud or uncomfortable noises, such as the Multistream fan and replacing wear parts using air tools.

1.6 ASSEMBLY AND MAINTENANCE SAFETY



DANGER!

Mounting a tyre on a rim can produce an explosion unless the proper procedures are followed. Do not attempt to mount a tyre on a rim unless you have the proper experience and training for the job. Preferably, have

your Ausplow dealer or a qualified tyre repair service centre carry out these repairs.



WARNING!

- Ensure tractor park brake is securely 'ON' when conducting maintenance on the machine when connected to a tractor. If the Ausplow bin or bar is not connected to a tractor, chock the wheels so that the machines remains stationary.
- Extreme care should be taken when fitting dual wheels to larger Multistream bins. The outer dual has an offset centre, mounted externally to the tyre and rim, causing the tyre to be very difficult to balance. When fitting, the outer tyre should be secured to a forklift, front end loader or tele-handler equipped with hay or pallet forks.
- With the inner wheel of the bin raised above the ground allowing it to rotate, the outer wheel can be 'driven' into position. Under no circumstances, should anyone position themselves between the inner tyre and the outer dual whilst fitting.



CAUTION!

Always replace any guards or safety shields removed for servicing, ensuring they are in good working order.

1.7 PRECAUTIONS WHEN SERVICING HYDRAULICS



WARNING!

Escaping hydraulic fluid under pressure can penetrate the skin causing serious internal injury. Always relieve hydraulic pressure before working on the hydraulic system. Ensure that connections are tight and hoses and pipes are in a serviceable condition before applying hydraulic pressure.

**CAUTION!**

- Do not use bare hands to search for suspected leaks.
- Always wear protective glasses when working on any hydraulic equipment.

1.8 SAFE WORKING LIMITS**WARNING!**

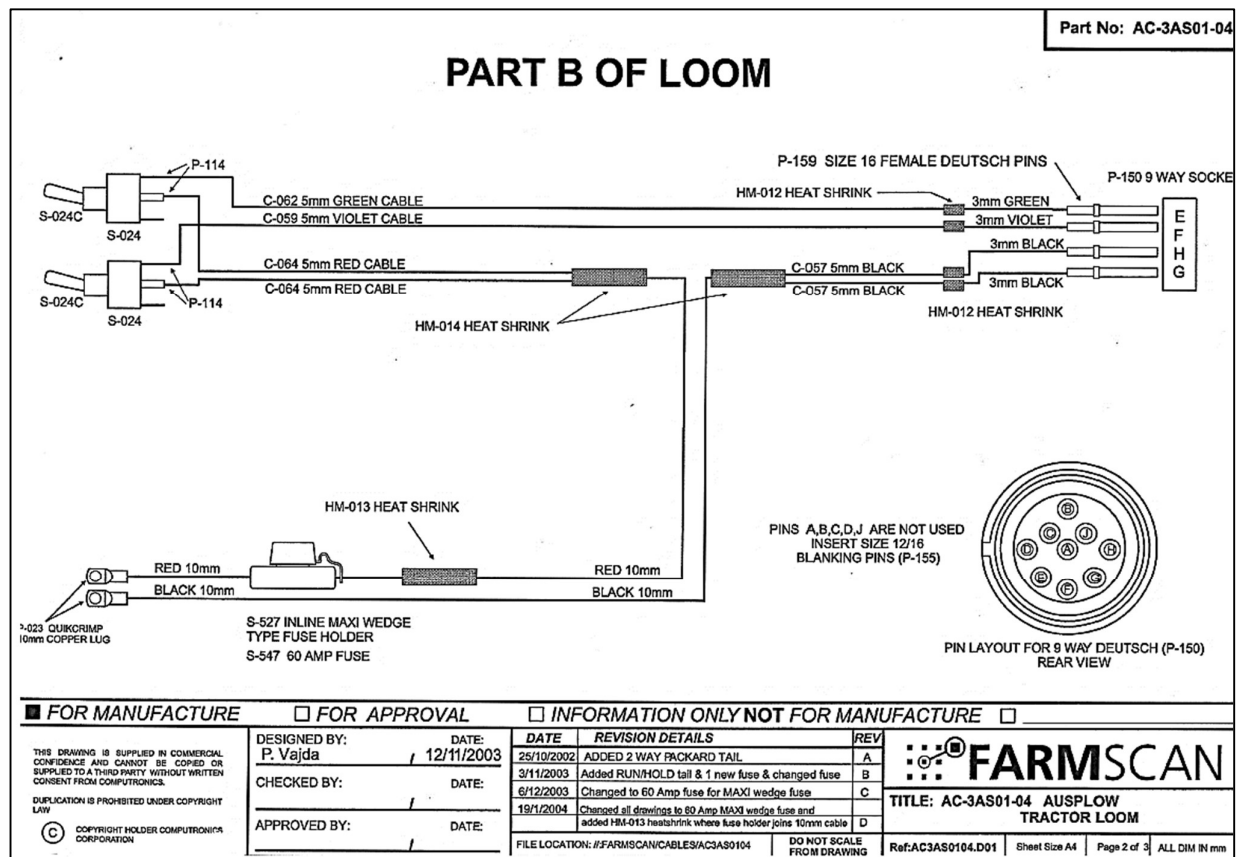
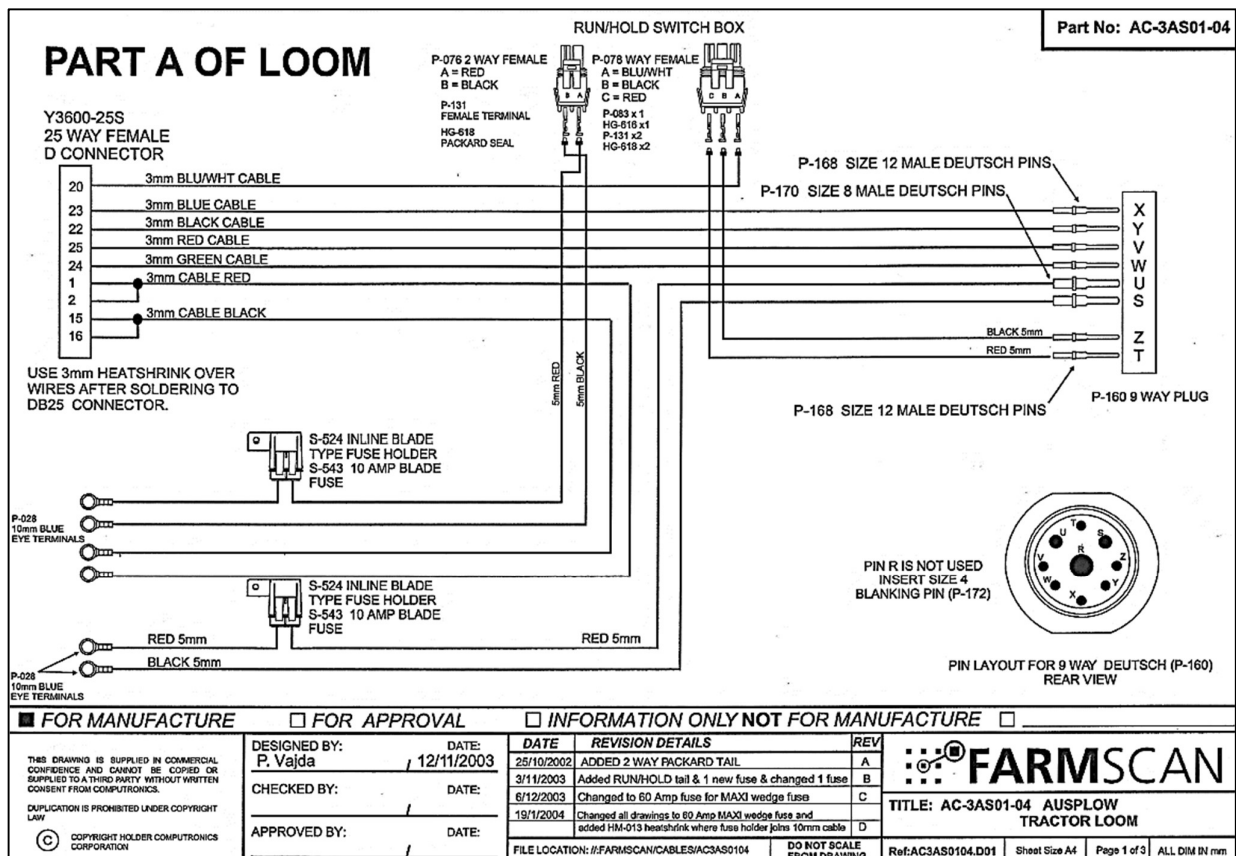
The Multistream operator's platform has been designed to carry safe working loads up to 300Kgs. Exceeding this weight could lead to serious personal injury.

1.9 RECOMMENDED TORQUE SETTINGS

Unless otherwise stated in the manual, the following tables outline the recommended torque settings for Bolts and U Bolts.

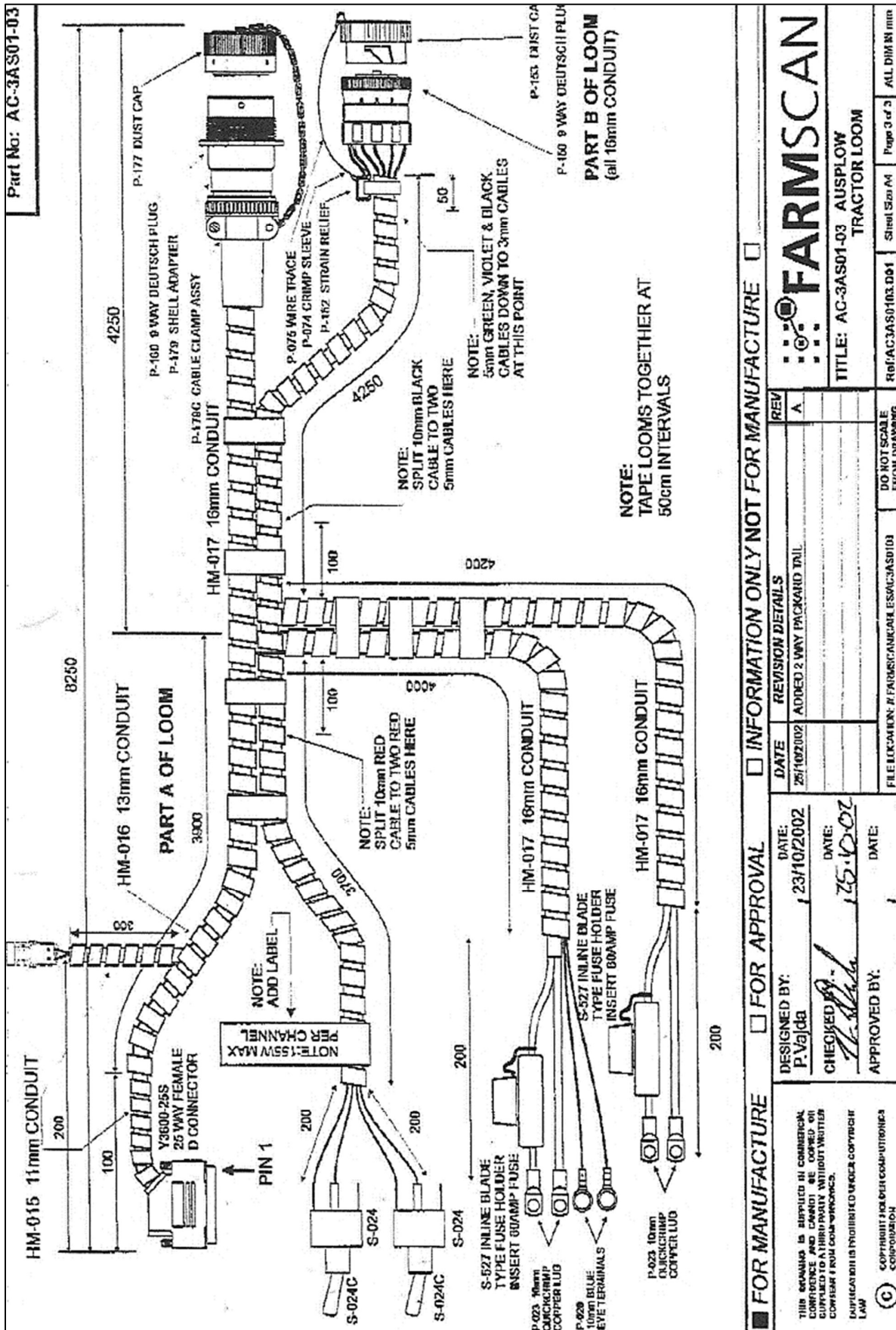
U Bolt Set #	Recommended Torque Nm	Fitment
05438 M20x102x150 Gal	240 with anti-seize	GAL Nylock nut, with normal washer
03071 M16x101x140 ZP	100 with anti-seize	ZP nut with spring washer
05778 M12x101x130 ZP	70 without anti-seize	ZP nut with spring washer
03056 M12x82x113 ZP	65 without anti-seize	ZP nut with spring washer

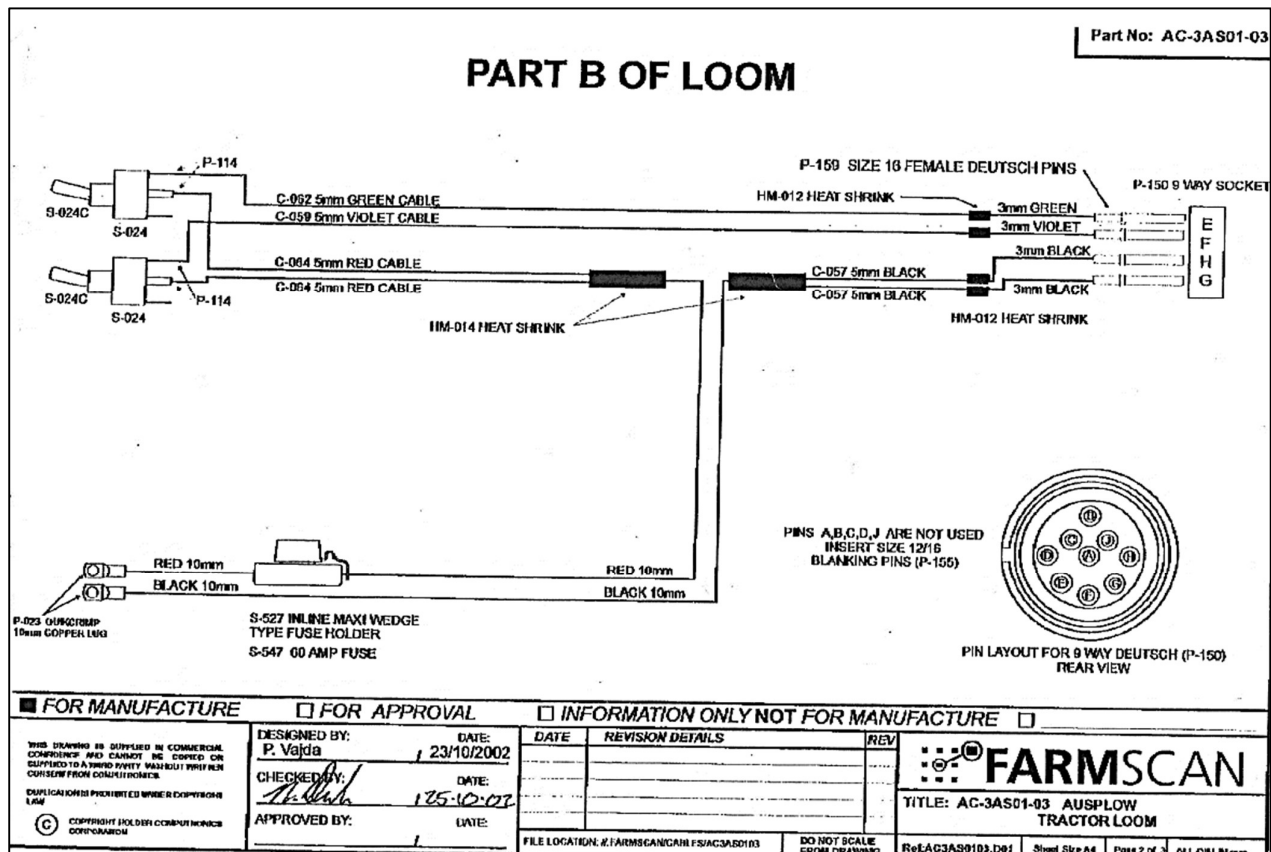
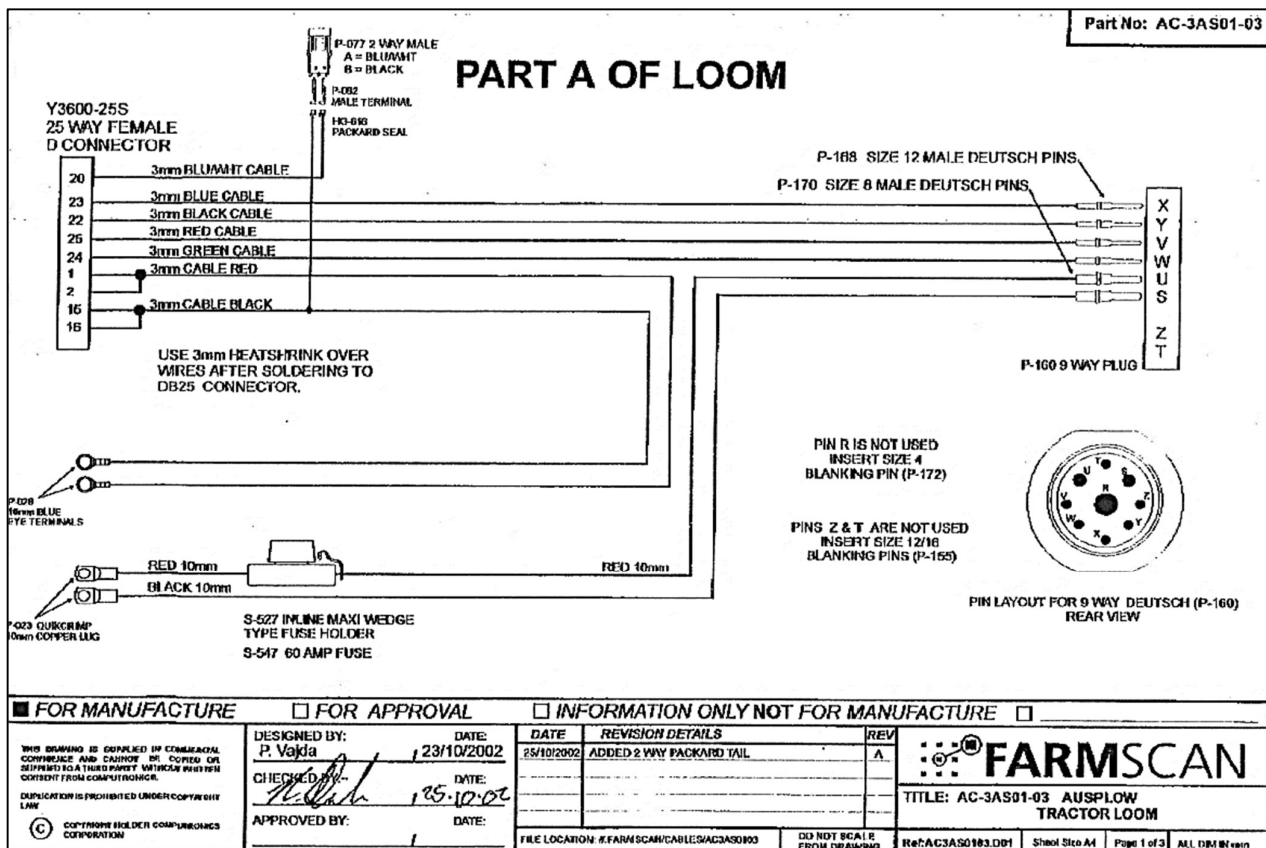
FASTENER TORQUE CHART				
(K=0.2; 65% PROOF LOAD)				
SIZE	TORQUE VALUE [Nm]			
	Gr 8.8	Gr 10.9	Gr 12.9	A4-70
M6	8	11	14	10
M8	20	28	33	12
M10	39	55	66	24
M12	68	96	116	42
M16	173	243	291	100
M20	337	474	569	197



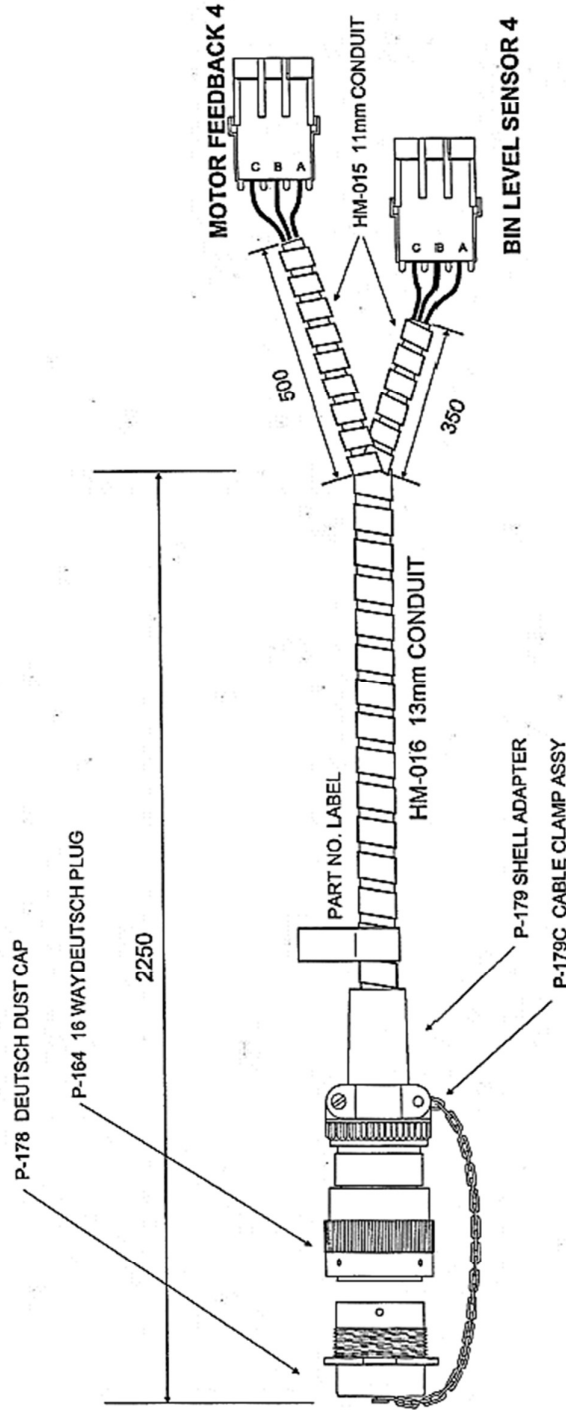
AC-3AS01-04 AUSPLOW TRACTOR LOOM

PART No.	DESCRIPTION	QUANTITY
P-160	24-9 DEUTSCH PLUG	1
P-150	9 WAY DEUTSCH SOCKET	1
P-153	DEUTSCH DUST CAP	1
P-152	DEUTSCH STRAIN RELIEF	1
P-075	DEUTSCH WIRE TRACE	0.2m
P-074	WIRE TRACE CRIMP SLEEVES	2
P-177	DEUTSCH DUST CAP	1
P-179	SIZE #24 DEUTSCH SHELL ADAPTER	1
P-179C	SIZE #24 DEUTSCH CABLE CLAMP ASSY	1
P-168	DEUTSCH MALE PIN #12	6
P-170	DEUTSCH MALE PIN #8	2
P-159	SIZE 16 FEMALE DEUTSCH PIN	4
P-172	SIZE 4 BLANKING PIN	1
P-155	SIZE 12/16 BLANKING PIN	5
Y3600-25S	25 WAY FEMALE 'D' CONNECTOR	1
Y4200-25M/R	25 WAY 'D' CONNECTOR BACK SHELL	1
P-114	6.4mm FULLY INSULATED FEMALE	4
S-024	COLE HERSEE ON-ON TOGGLE SWITCH	2
S-024C	RUBBER BOOT TO SUIT	2
P-076	2 WAY FEMALE PACKARD HOUSING	1
P-078	3 WAY FEMALE PACKARD HOUSING	1
P-083	FEMALE PACKARD TERMINAL	1
P-131	FEMALE PACKARD TERMINLA FOR 6mm	4
HG-616	PACKARD SEAL GREEN	1
HG-618	PACKARD SEAL BLUE	4
P-023	10mm QUICKCRIMP COPPER LUG	2
P-028	10mm RING TERMINAL BLUE	6
S-527	WATER PROOF INLINE MAXI WEDGE FUSE HOLDER	1
S-524	INLINE BLADE TYPE FUSE HOLDER	2
S-547	60 AMP MAXI WEDGE FUSE	1
S-543	10 AMP BLADE FUSE	2
HM-020	3mm HEAT SHRINK	0.04m
HM-014	12mm HEAT SHRINK	0.06m
HM-013	19mm HEAT SHRINK	0.06m
HM-012	6.4mm HEAT SHRINK	0.06m





Part No: AC-3AS06-01



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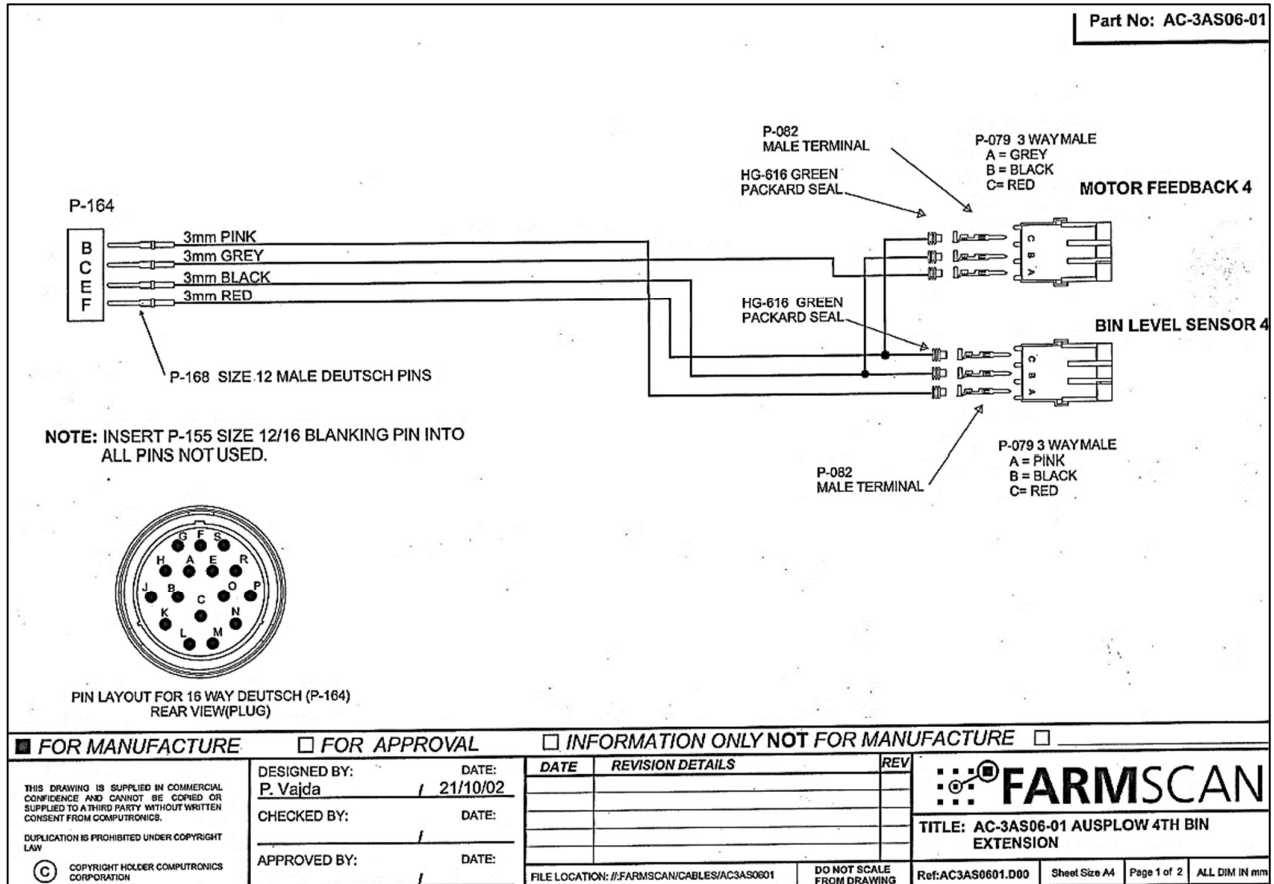
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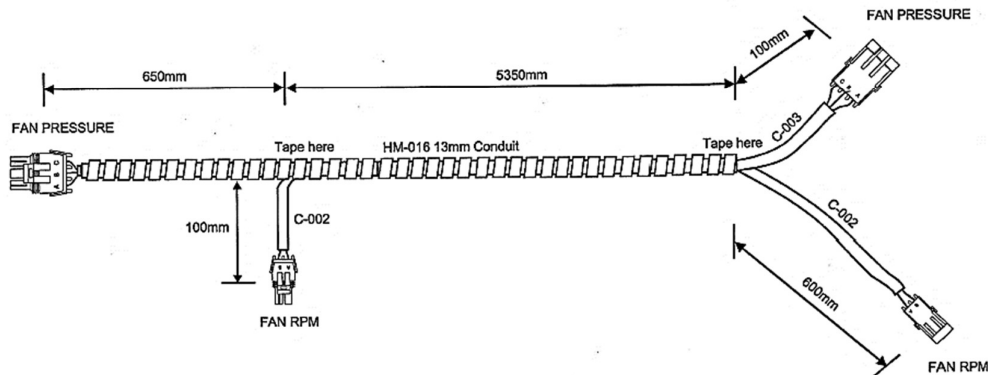
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AC-3AS06-01 AUSPLOW 4TH BIN EXTENSION LOOM

PART No.	DESCRIPTION	QUANTITY
P-164	16 WAY DEUTSCH PLUG	1
P-178	DEUTSCH DUST CAP	1
P-179	DEUTSCH CABLE ASSEMBLY	1
P-179C	DEUTSCH SHELL ADAPTER	1
P-168	SIZE 12 MALE DEUTSCH PIN	4
P-155	SIZE 12/16 DEUTSCH BLANKING PIN	12
P-079	3 WAY MALE PACKARD HOUSING	2
P-082	MALE PACKARD TERMINAL	6
HG-616	PACKARD SEAL BLUE	6
C-102	3mm CABLE PINK	2.6m
C-103	3mm CABLE GREY	2.8m
C-043	3mm CABLE BLACK	3.1m
C-044	3mm CABLE RED	3.1m
HM-016	13mm CONDUIT	2.3m
HG-702	CABLE TIE	1

Part No:AC-3AS11-01


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FARMSCAN

TITLE: AC-3AS11-01 AUSPLOW FAN AND AIR EXT FOR 3 BIN TOW BEHIND (CANLINK)

FILE LOCATION: //FARMSCAN/CABLES/AC-3AS11-01

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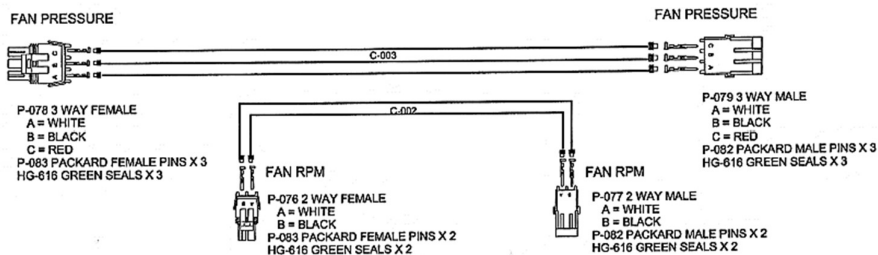
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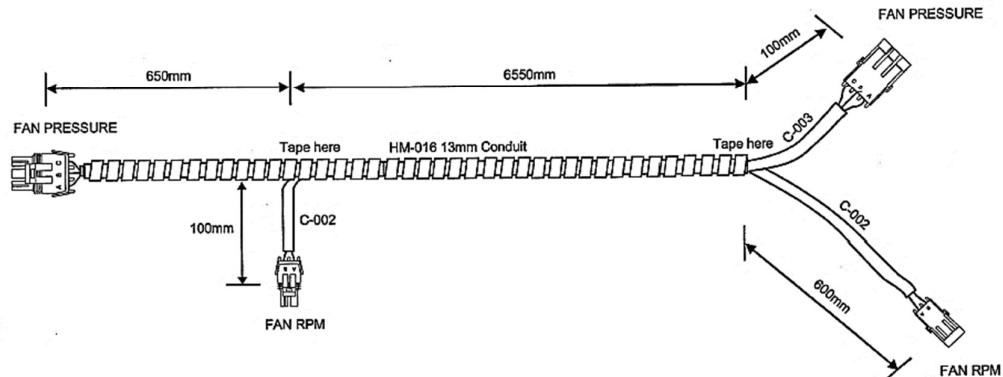
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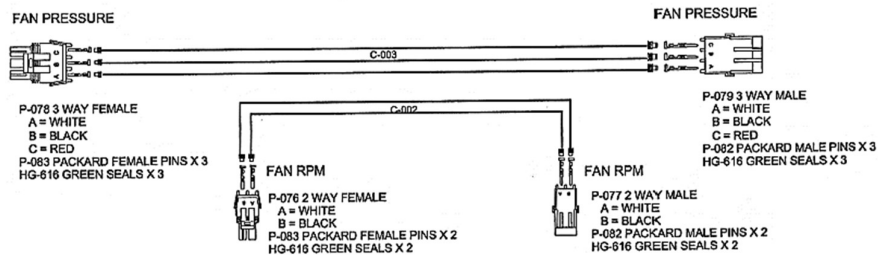
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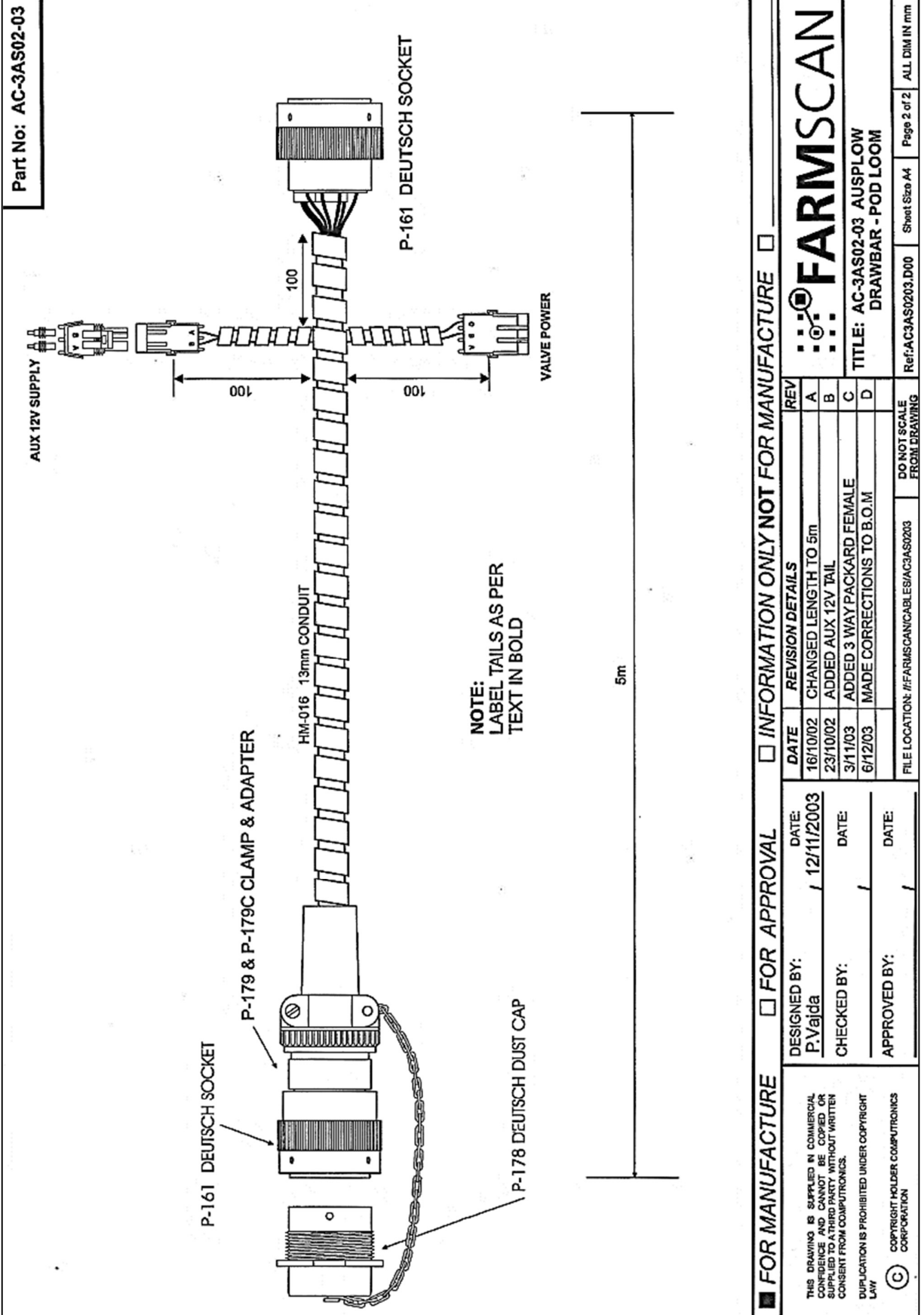
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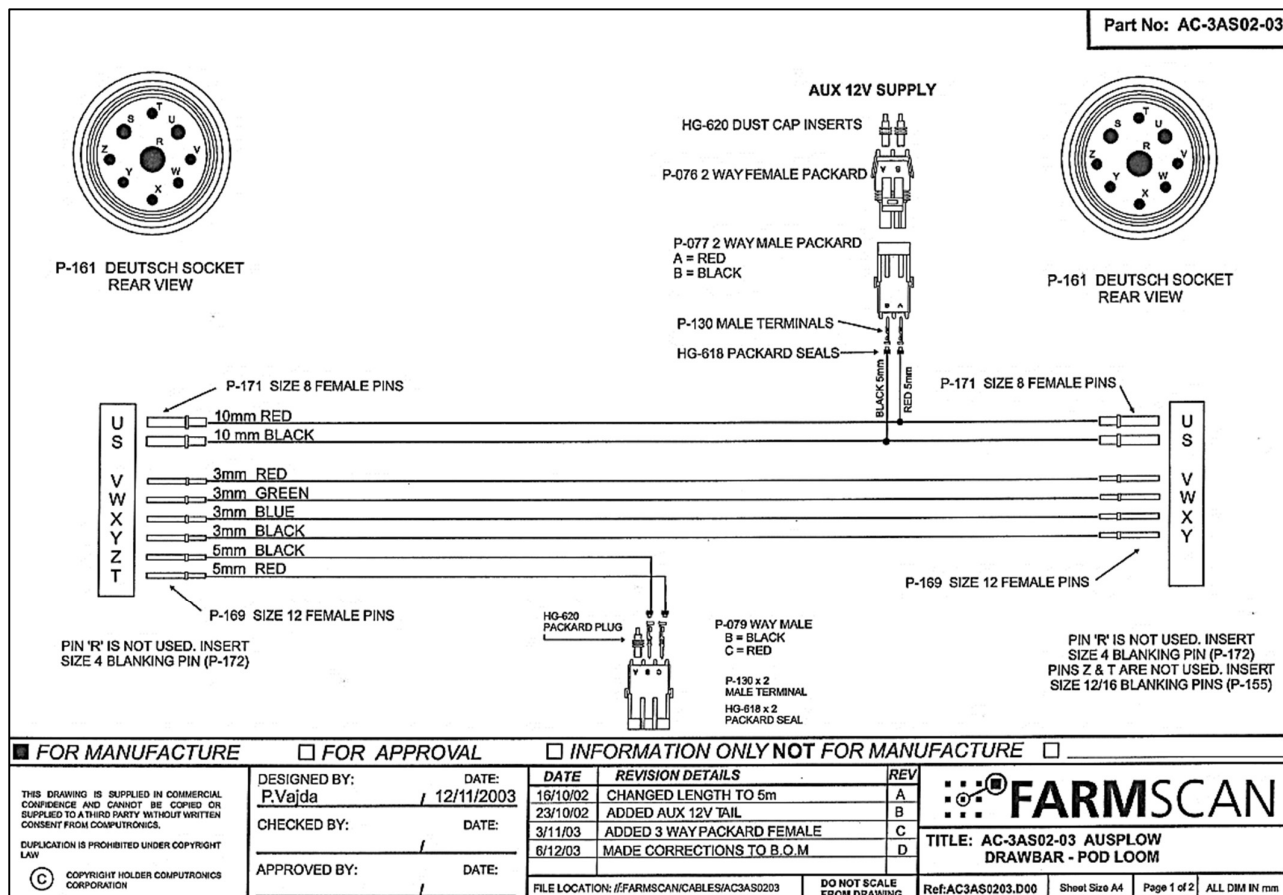
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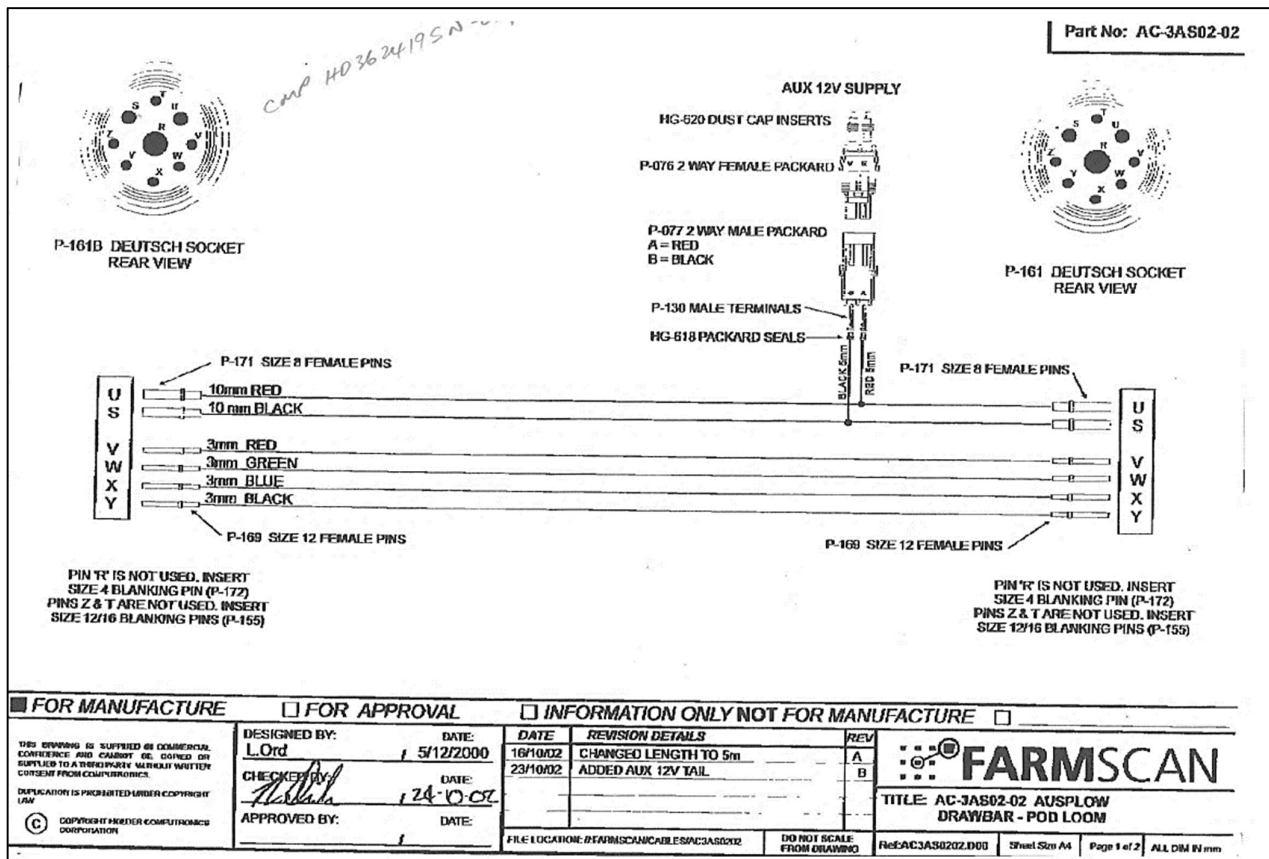
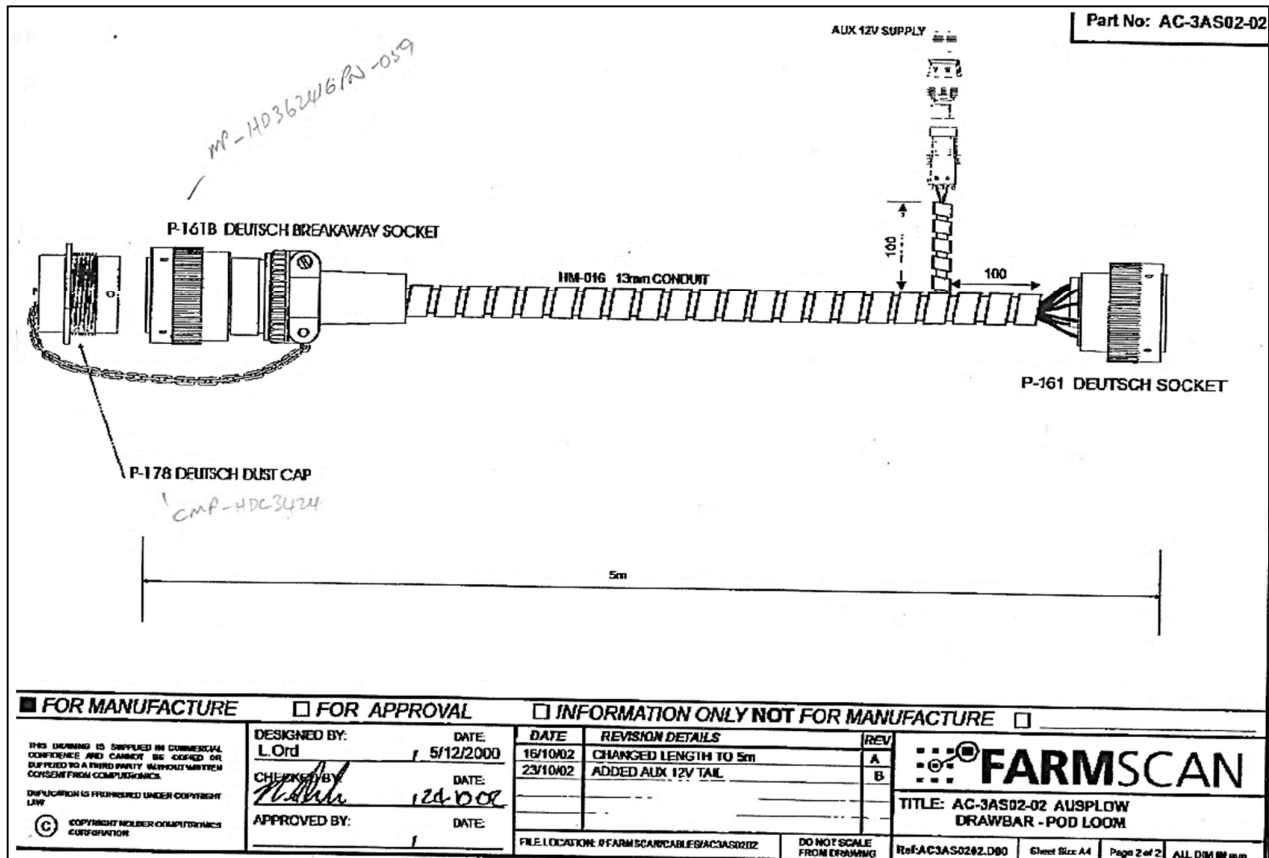
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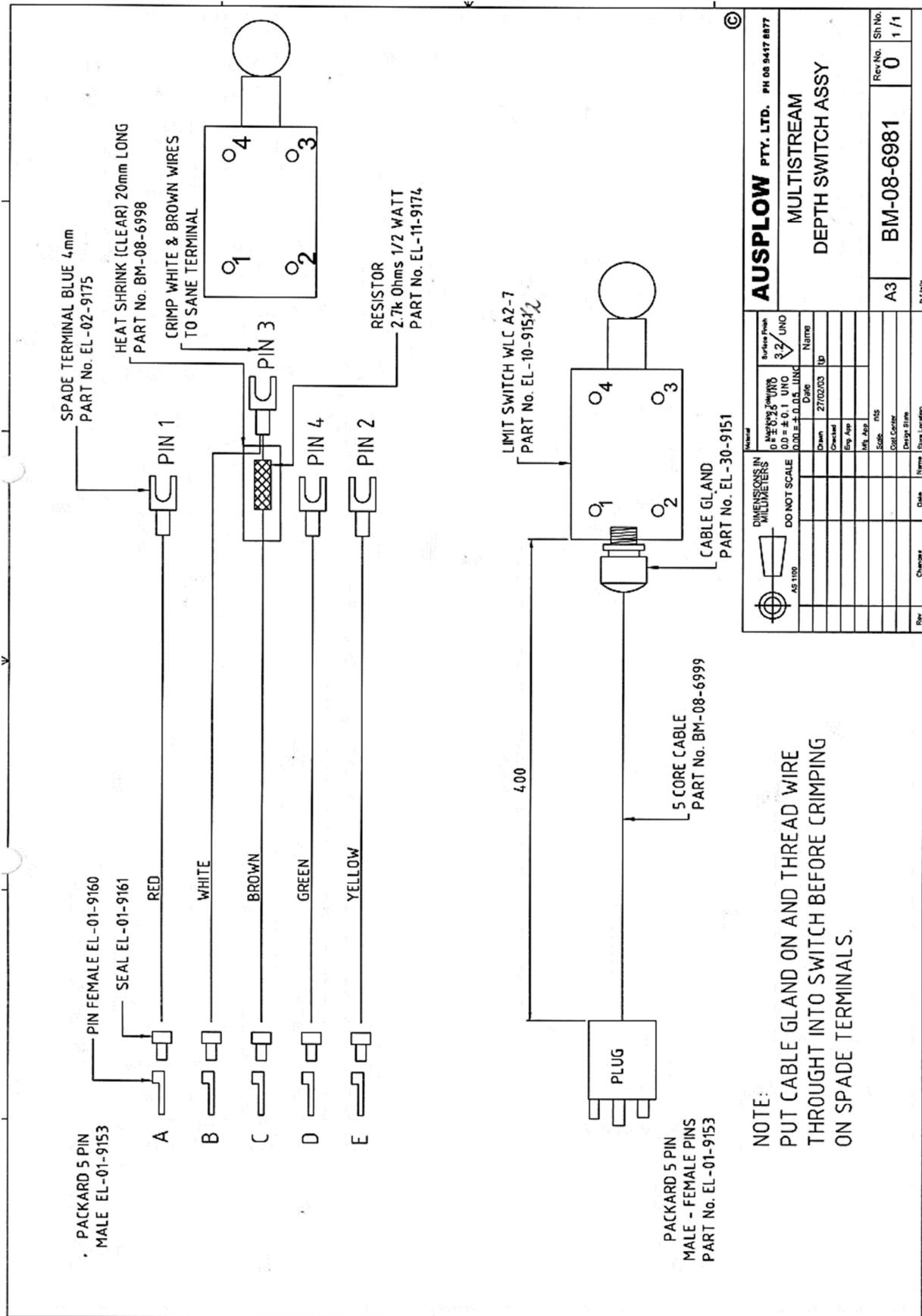


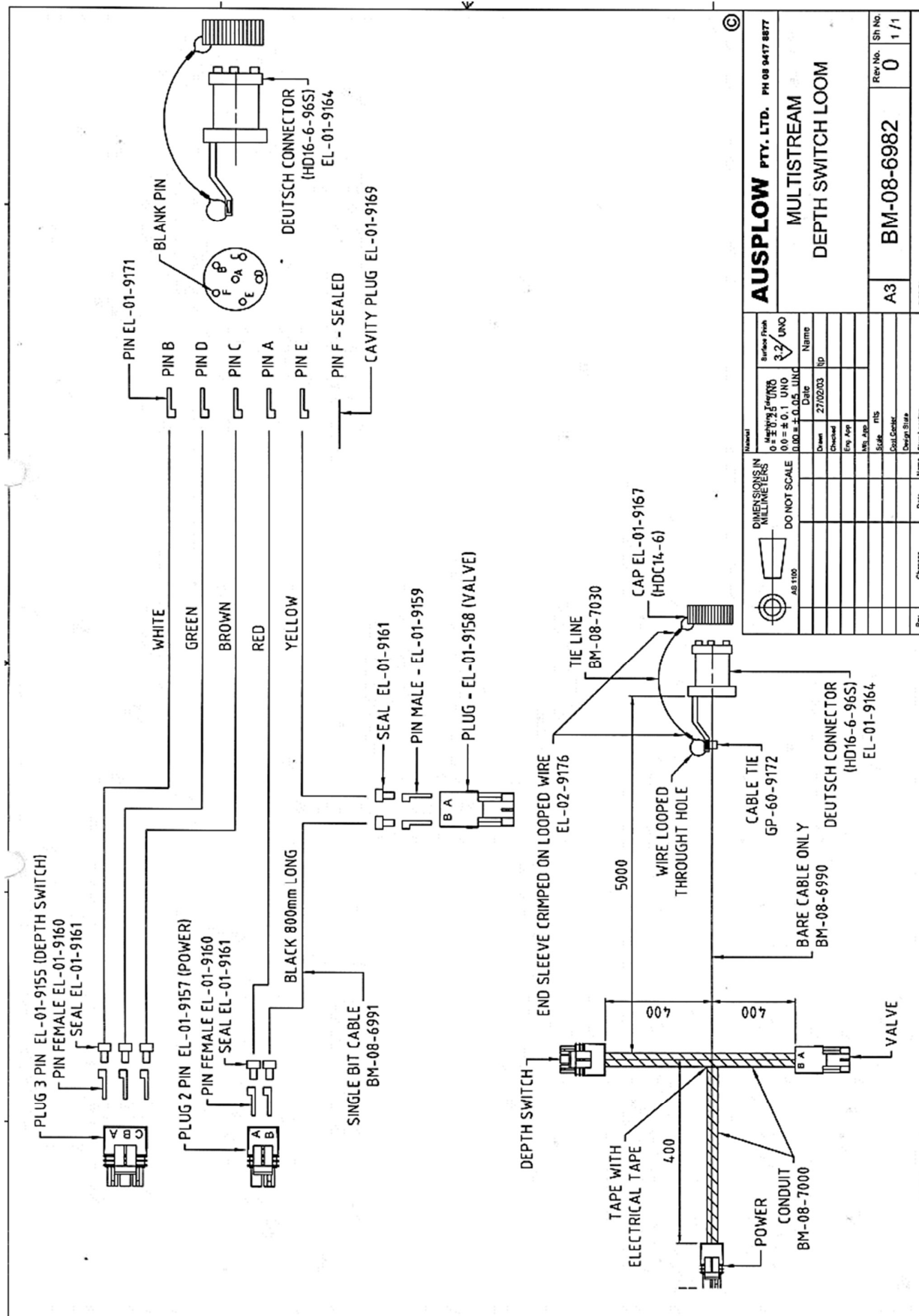


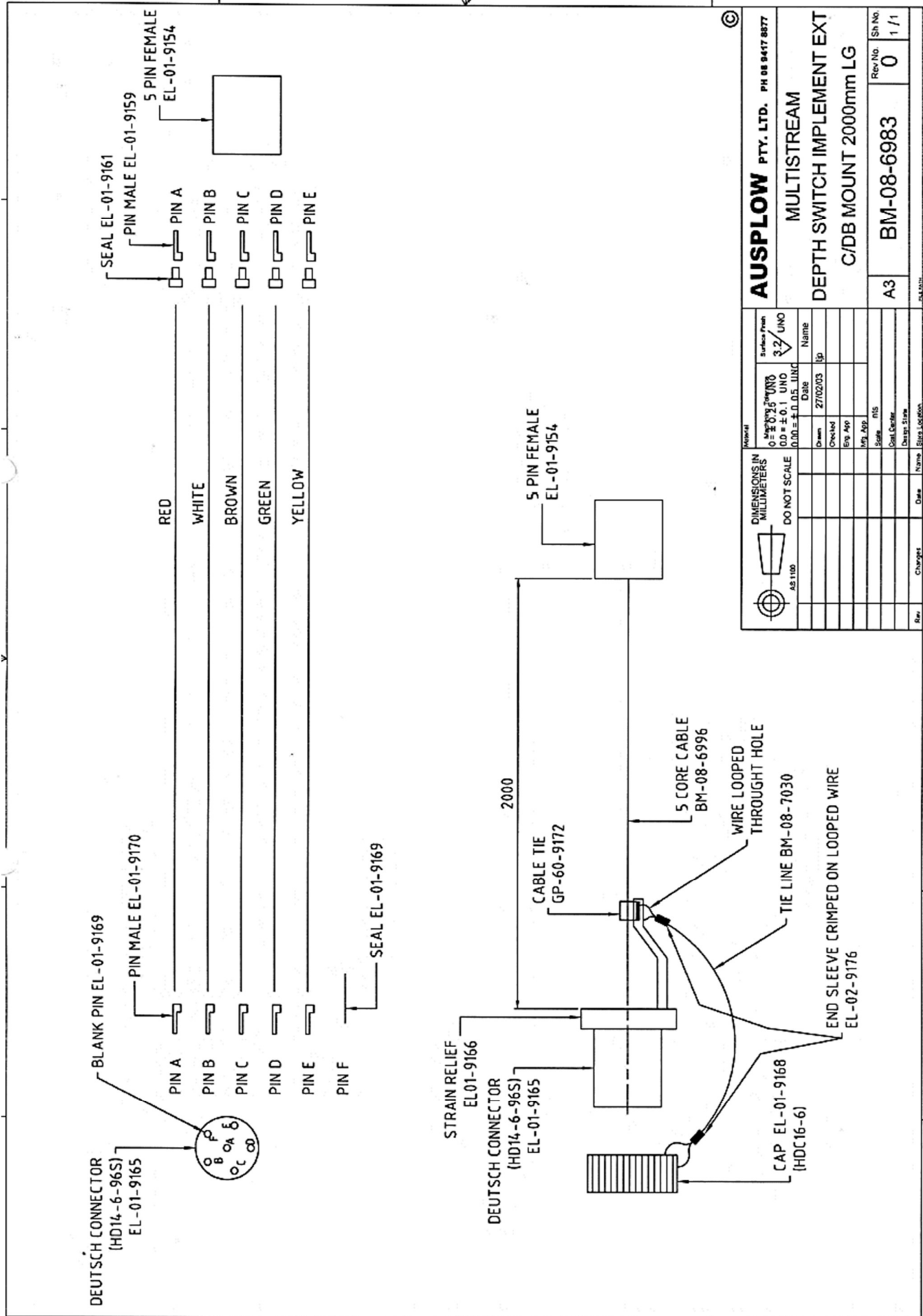
AC-3AS02-03 AUSPLOW DRAWBAR TO POD LOOM

PART No.	DESCRIPTION	QUANTITY
P-161	9 WAY 24-9 DEUTSCH SOCKET	2
P-178	DEUTSCH DUST CAP	1
P-179	DEUTSCH SHELL ADAPTER	1
P-179C	DEUTSCH CABLE CLAMP ASSEMBLY	1
P-077	2 WAY MALE PACKARD HOUSING	1
P-130	MALE PACKARD TERMINAL FOR 6mm	4
HG-618	PACKARD SEALS BLUE	4
P-076	2 WAY FEMALE PACKARD HOUSING	1
P-079	3 WAY FEMALE PACKARD HOUSING	1
HG-620	PACKARD DUST CAP INSERTS	3
P-171	SIZE 8 FEMALE DEUTSCH PIN	4
P-169	SIZE 12 FEMALE DEUTSCH PIN	10
P-172	SIZE 4 DEUTSCH BLANKING PIN	2
P-155	SIZE 12/16 DEUTSCH BLANKING PIN	2

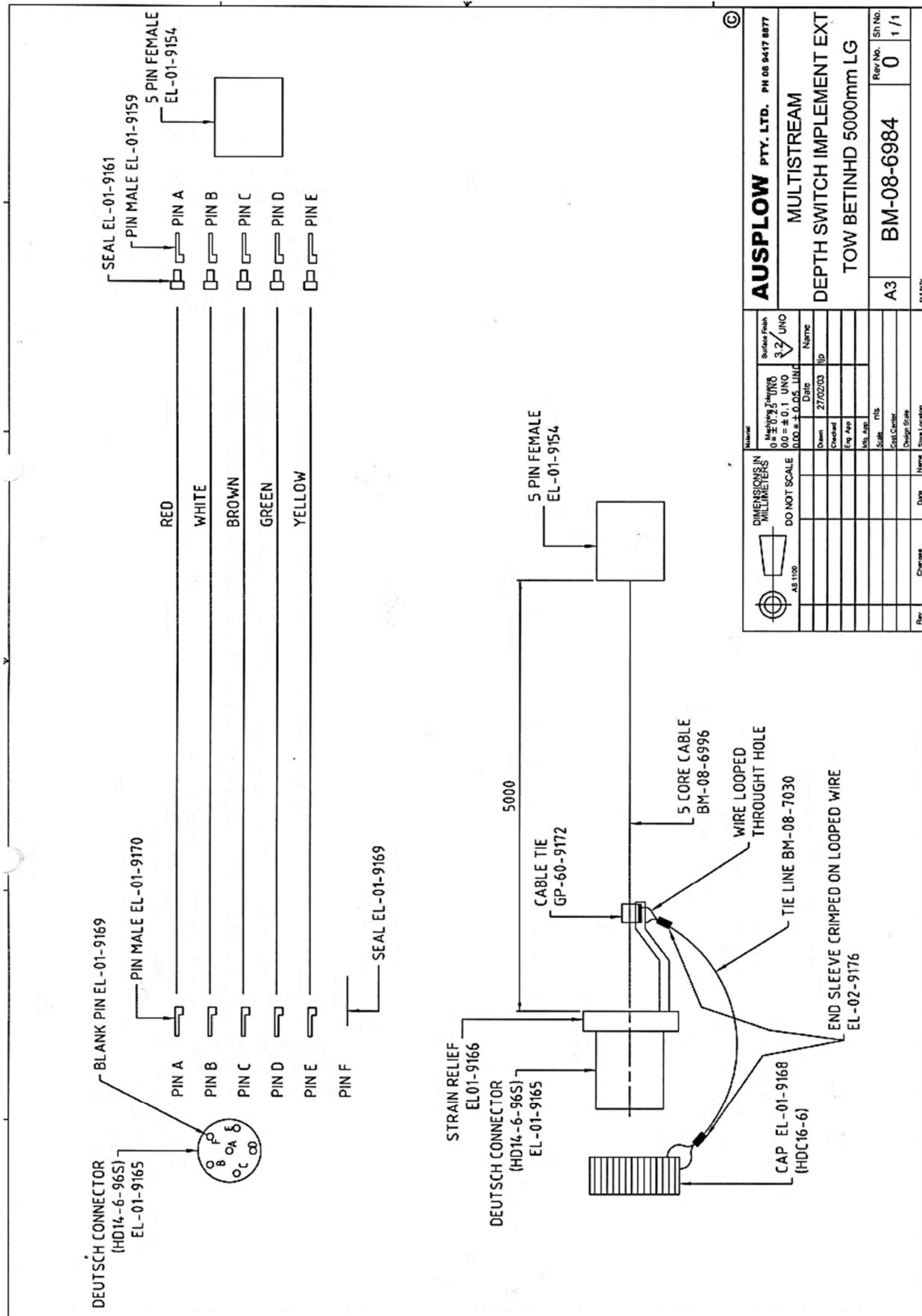


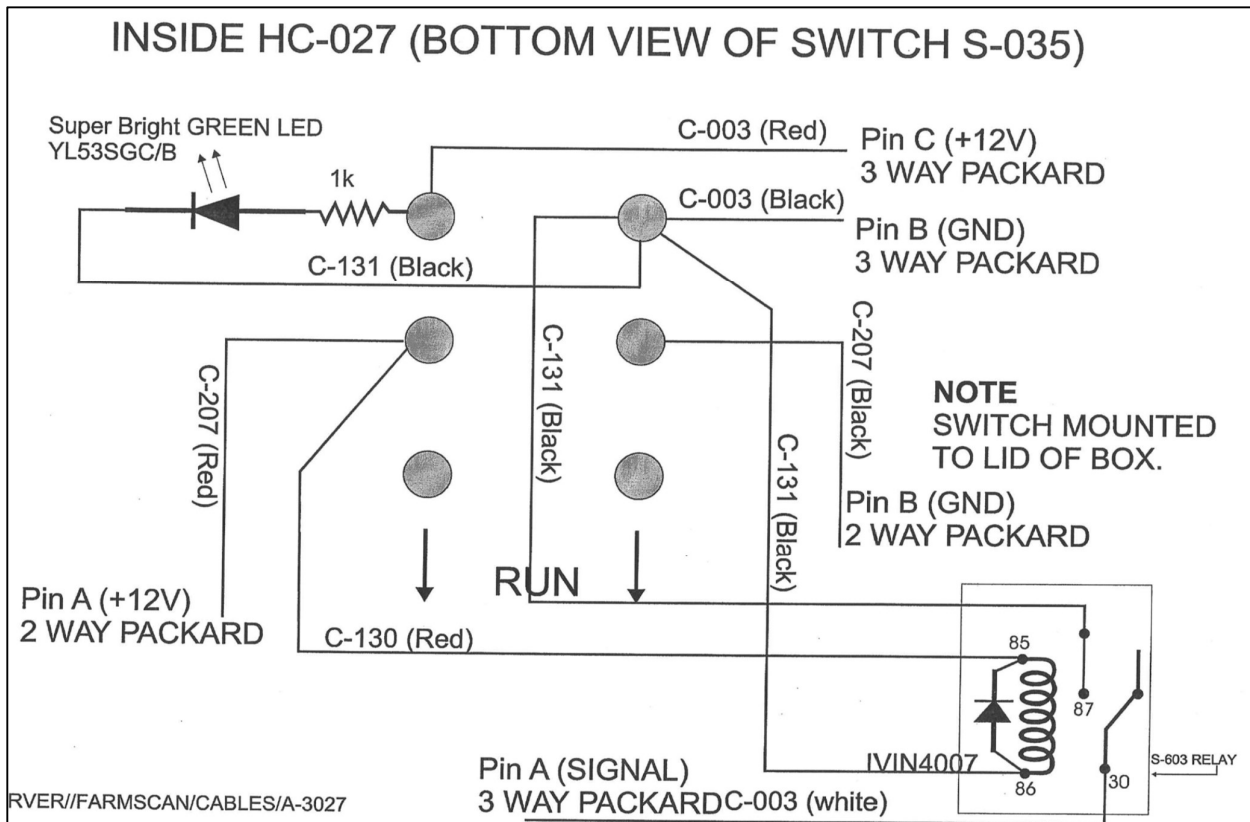
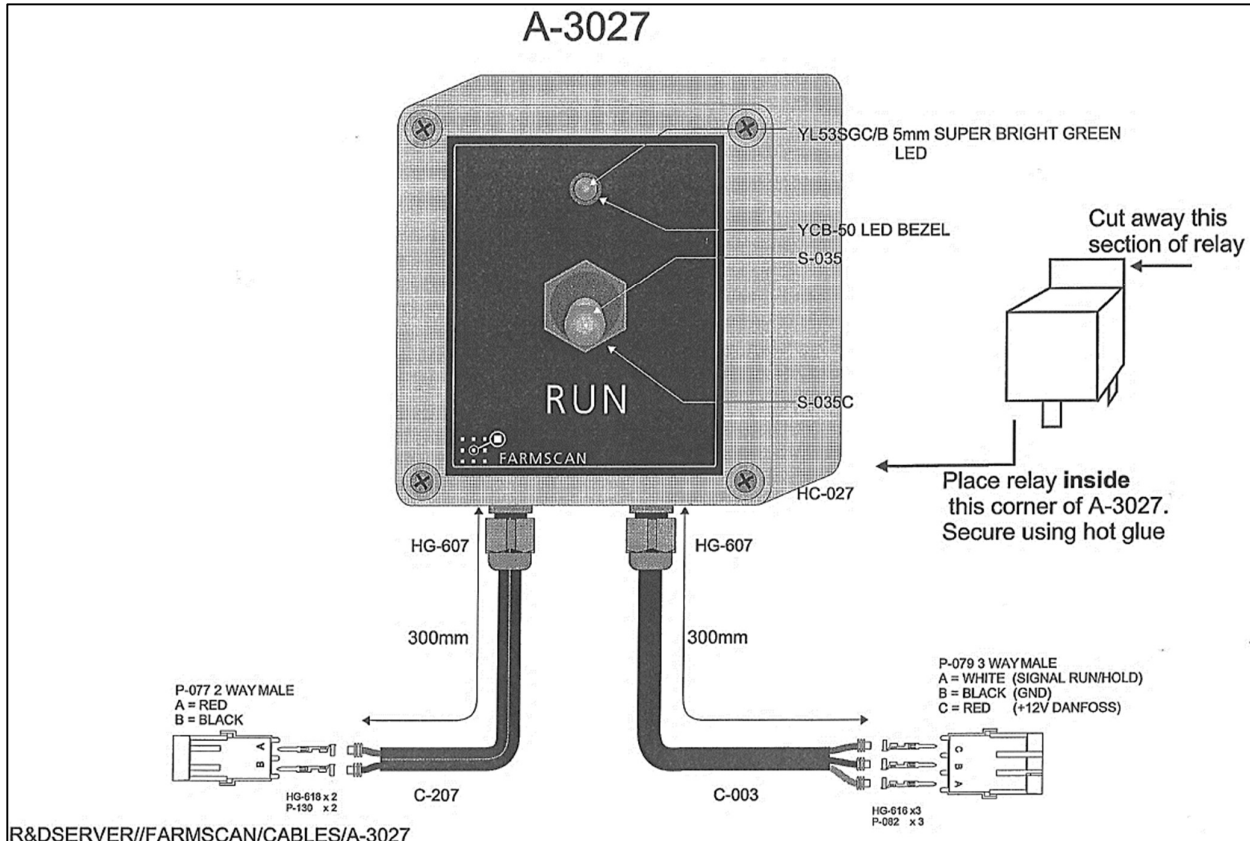






AUSPLOW PTY. LTD. PH 08 9417 8877 MULTISTREAM DEPTH SWITCH IMPLEMENT EXT C/DB MOUNT 2000mm LG		Rev No 0 Sh No 1/1
A3 BM-08-6983		Rev No 0 Sh No 1/1
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2.1.2 FARMSCAN LIGHT LOOMS

Part No: AC-3AS08-01																
☐ FOR MANUFACTURE ☐ FOR APPROVAL ☐ INFORMATION ONLY NOT FOR MANUFACTURE																
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DESIGNED BY: P.Vajda	DATE: 16/10/02	DATE	REVISION DETAILS	REV												
CHECKED BY: <i>[Signature]</i>	DATE: 17-10-02															
APPROVED BY:	DATE:															

AC-3AS08-01 AUSPLOW LIGHTS ACCESSORY LOOM

PART No.	DESCRIPTION	QUANTITY
C-207	2 CORE 5mm CABLE	0.3m
P-076	2 WAY FEMALE PACKARD HOUSING	1
P-131	FEMALE PACKARD TERMINAL SUIT 6mm CABLE	2
HG-618	PACKARD SEAL BLUE	2

Part No: AC-3AS04-02

FARMSCAN
TITLE: AC-3AS04-02 AUSPLOW LIGHTS

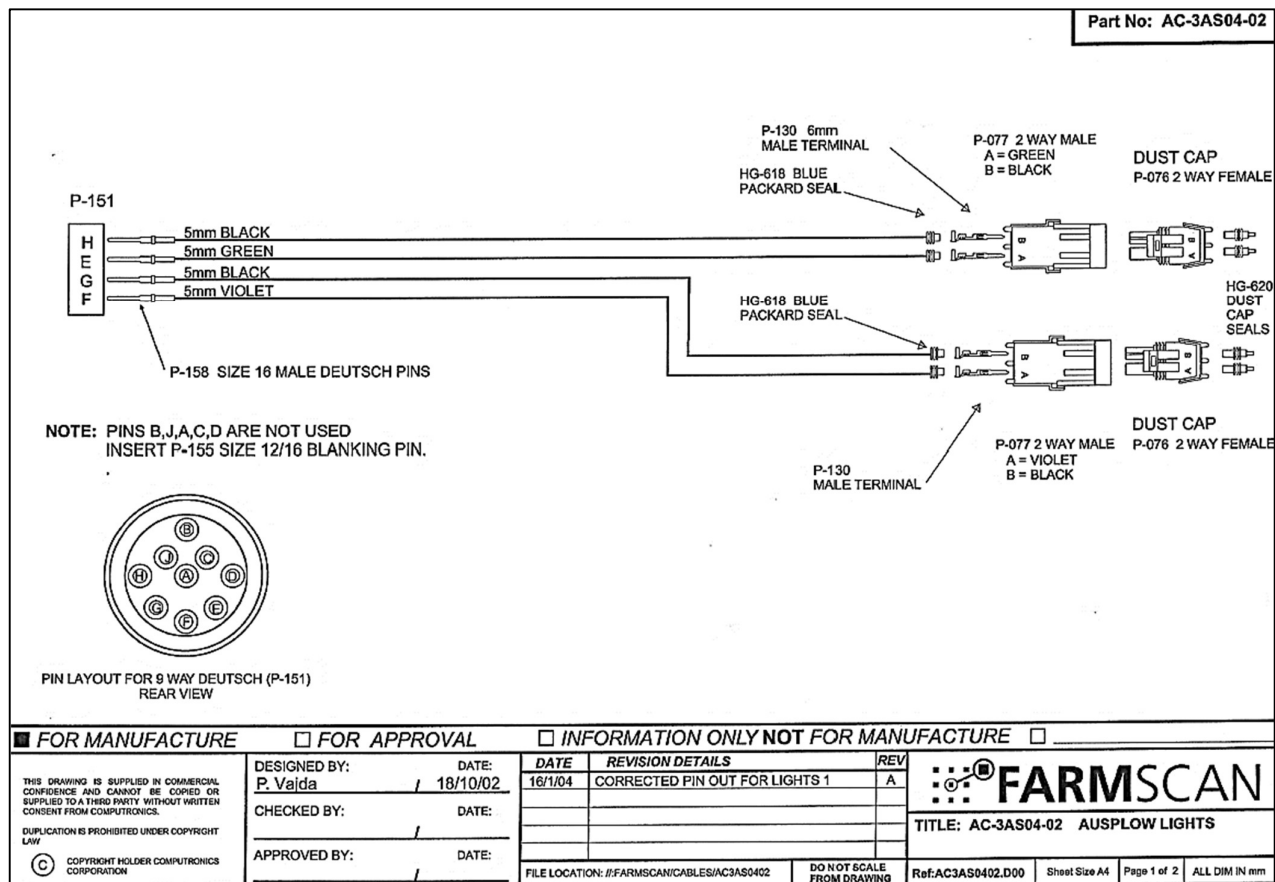
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P. Vaida	18/10/02	16/1/04	CORRECTED PIN OUT FOR LIGHTS 1	A	
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APPROVED BY:	DATE:				

FILE LOCATION: //FARMSCAN/CABLES/AC3AS0402
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 Sheet Size A4
 Page 2 of 2
 ALL DIM IN mm

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AC-3AS04-02 AUSPLOW LIGHTS

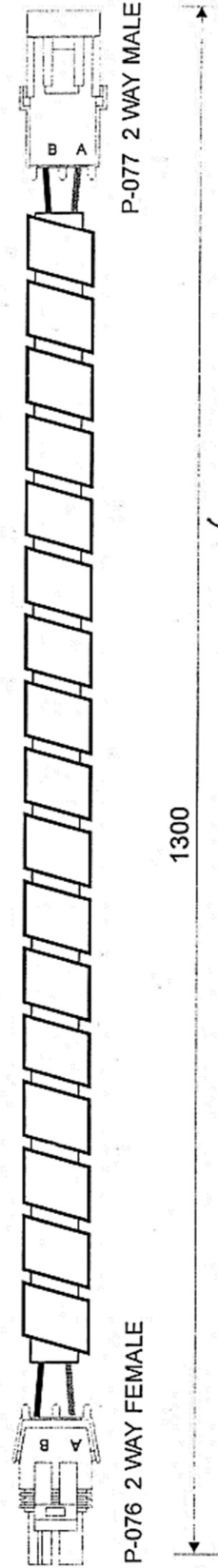
PART No.	DESCRIPTION	QUANTITY
P-151	9 WAY DEUTSCH PLUG	1
P-154	DEUTSCH DUST CAP	1
P-152	DEUTSCH STRAIN RELIEF	1
P-158	SIZE 16 MALE DEUTSCH PIN	4
P-155	SIZE 12/16 DEUTSCH BLANKING PIN	5
P-076	2 WAY FEMALE PACKARD HOUSING	2
P-077	2 WAY MALE PACKARD HOUSING	2
P-130	MALE PACKARD TERMINAL SUIT 6mm CABLE	4
HG-618	PACKARD SEAL BLUE	4
HG-620	DUST CAP SEALS	4
P-084	PACKARD ATTACHMENT CLIP	2
C-059	5mm CABLE VIOLET	8.6m
C-060	5mm CABLE BLACK	17.2m
C-062	5mm CABLE GREEN	8.6m
HM-016	13mm CONDUIT	8.6m
HG-702	CABLE TIE	1

Part No: AC-3AS09-01

P-077 2 WAY MALE PACKARD H'SING



INSERT CLIP (P-084) INTO H'SING AS SHOWN



P-076 2 WAY FEMALE

P-077 2 WAY MALE

1300

2 OFF PER 4 Bin ✓

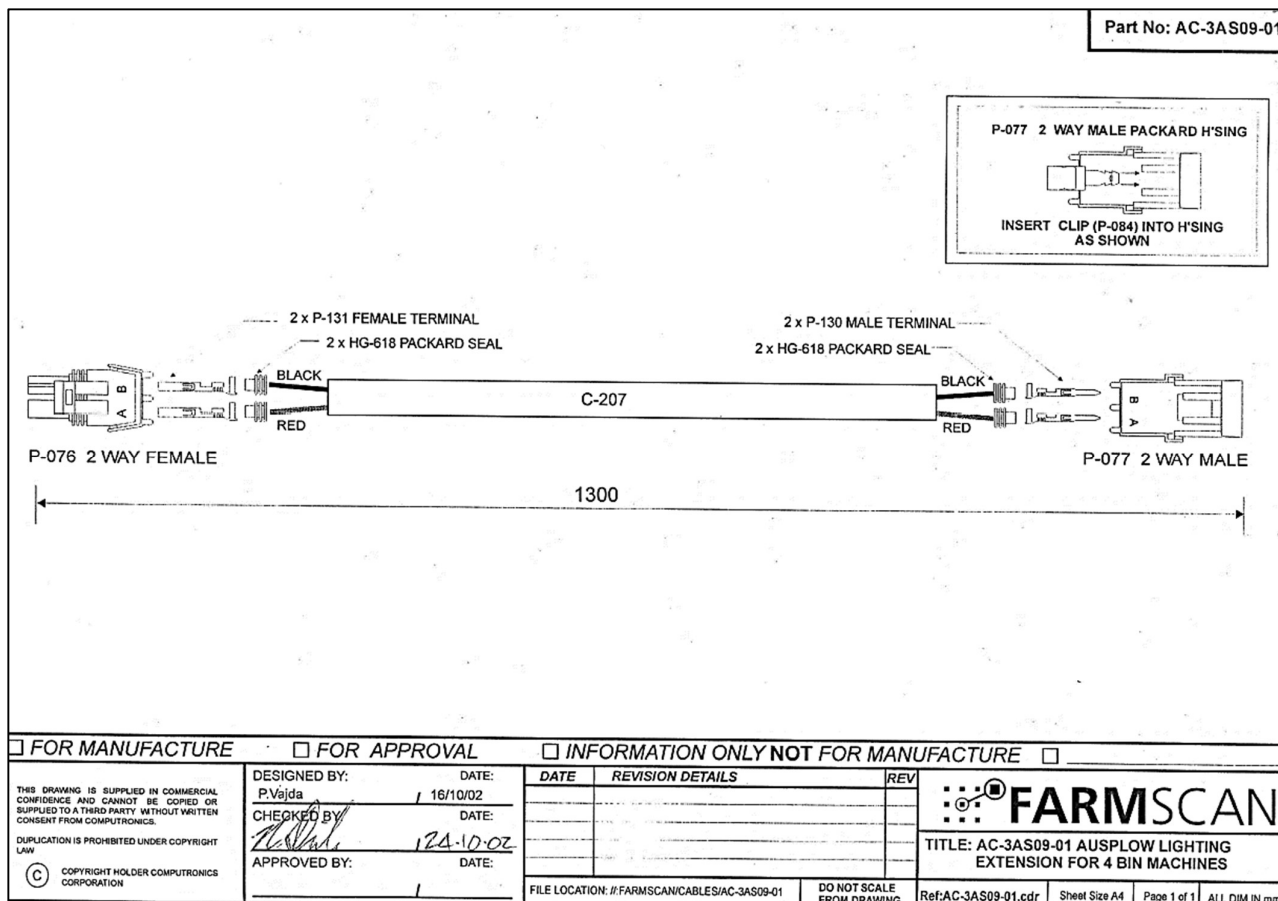
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FARMSCAN

TITLE: AC-3AS09-01 AUSPLOW LIGHTING EXTENSION FOR 4 BIN MACHINES

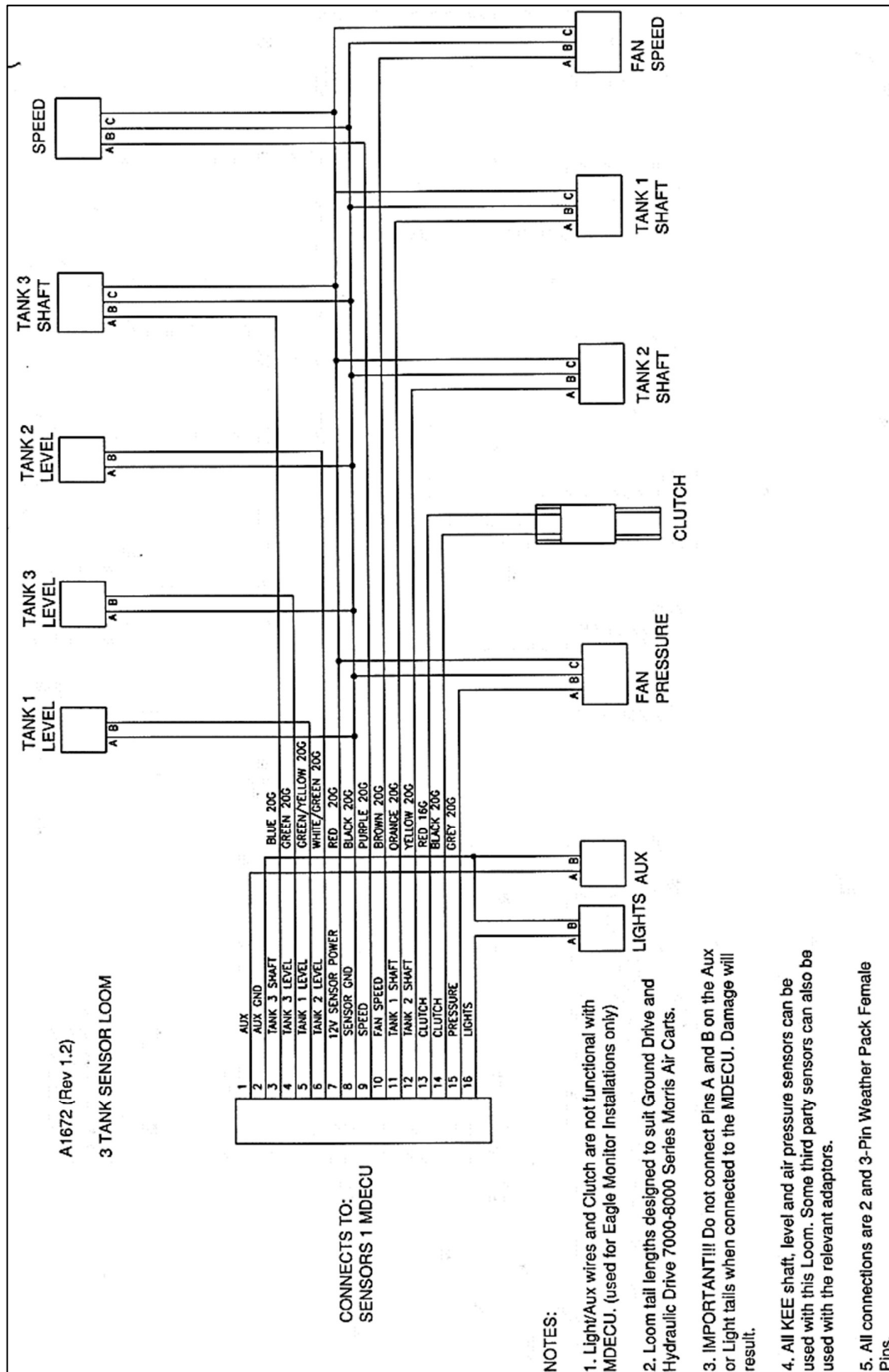
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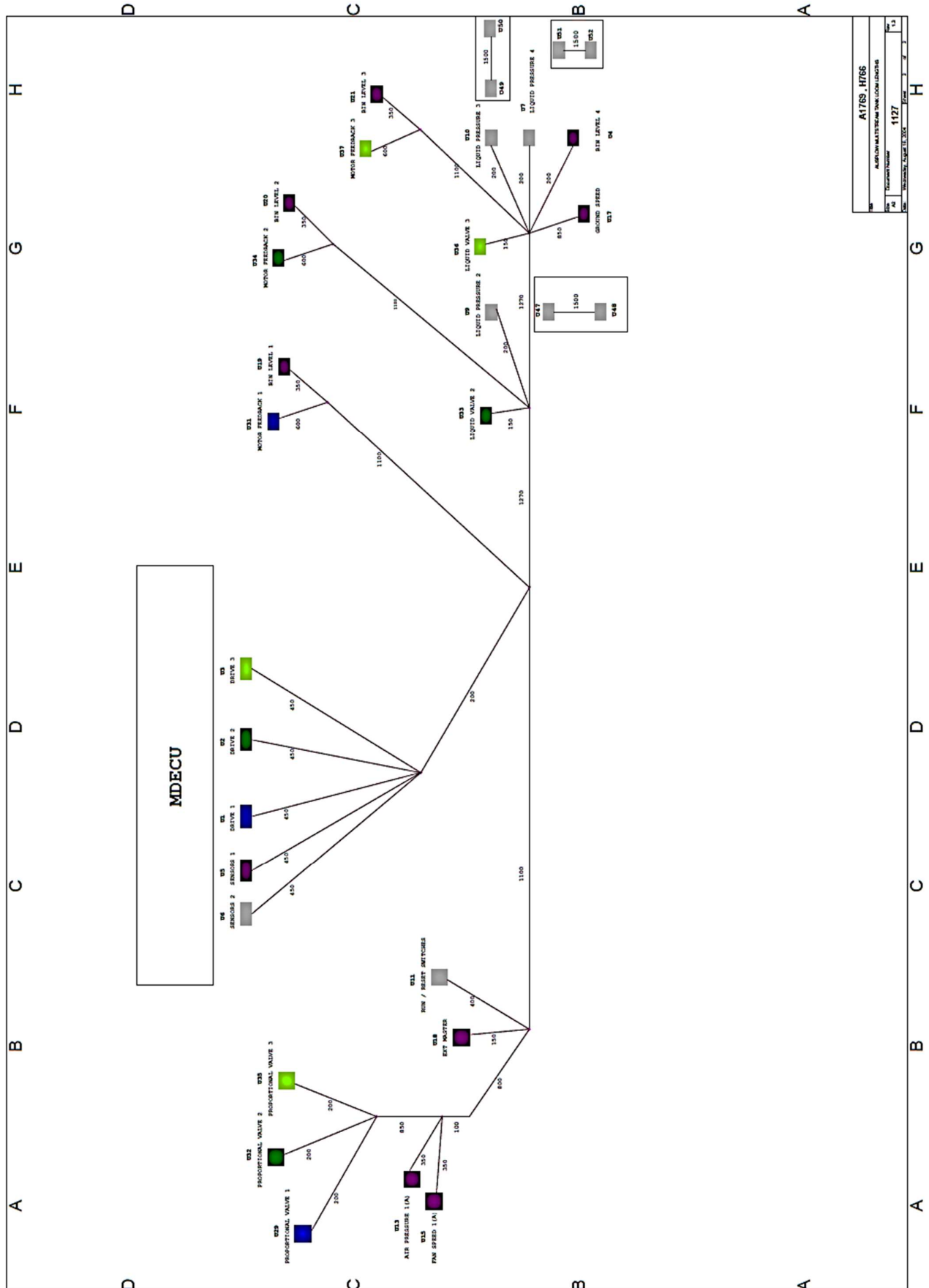
Part No: AC-3AS09-01

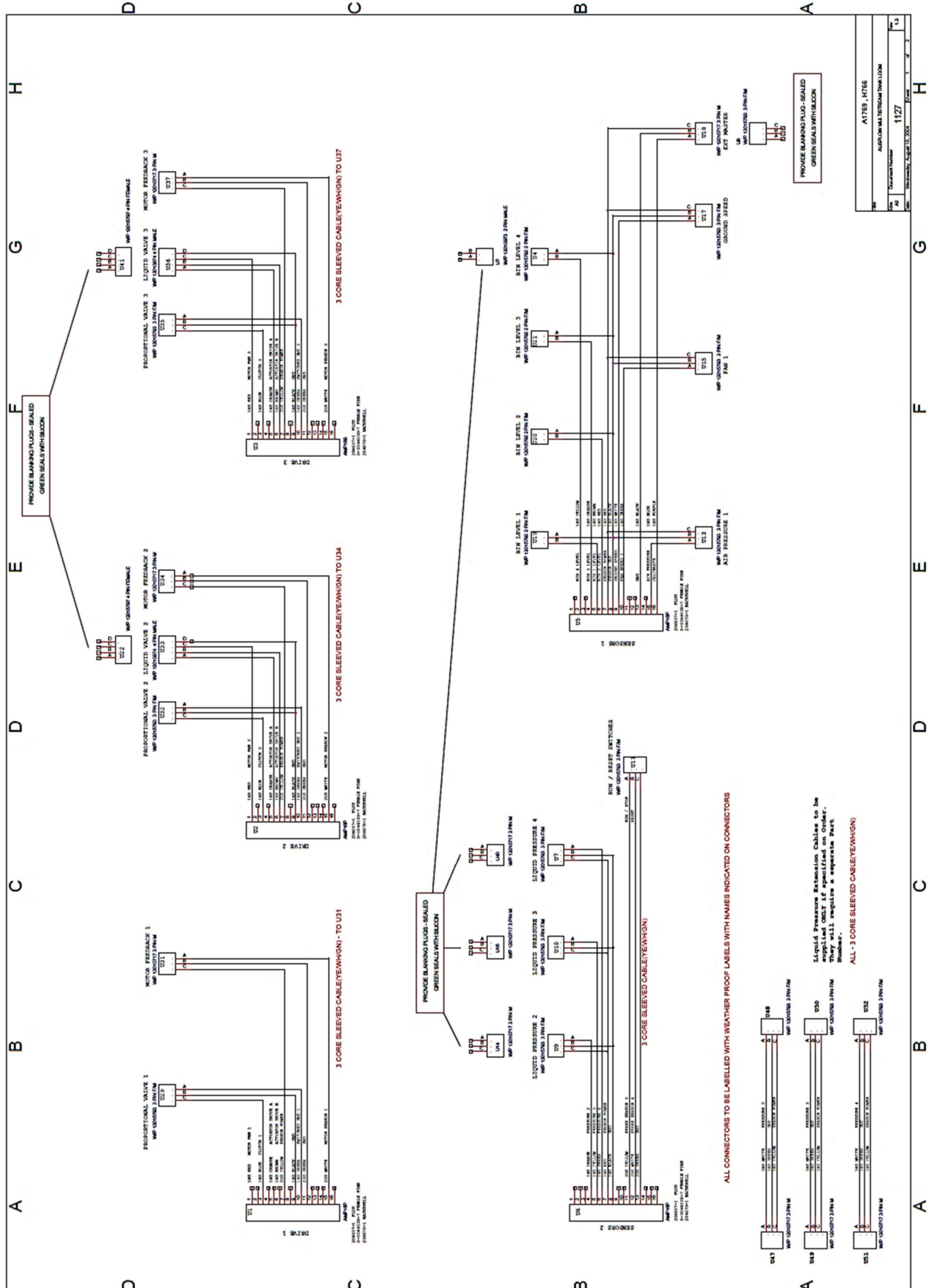
**AC-3AS09-01 AUSPLOW LIGHTING EXTENSION FOR 4 BIN MACHINES**

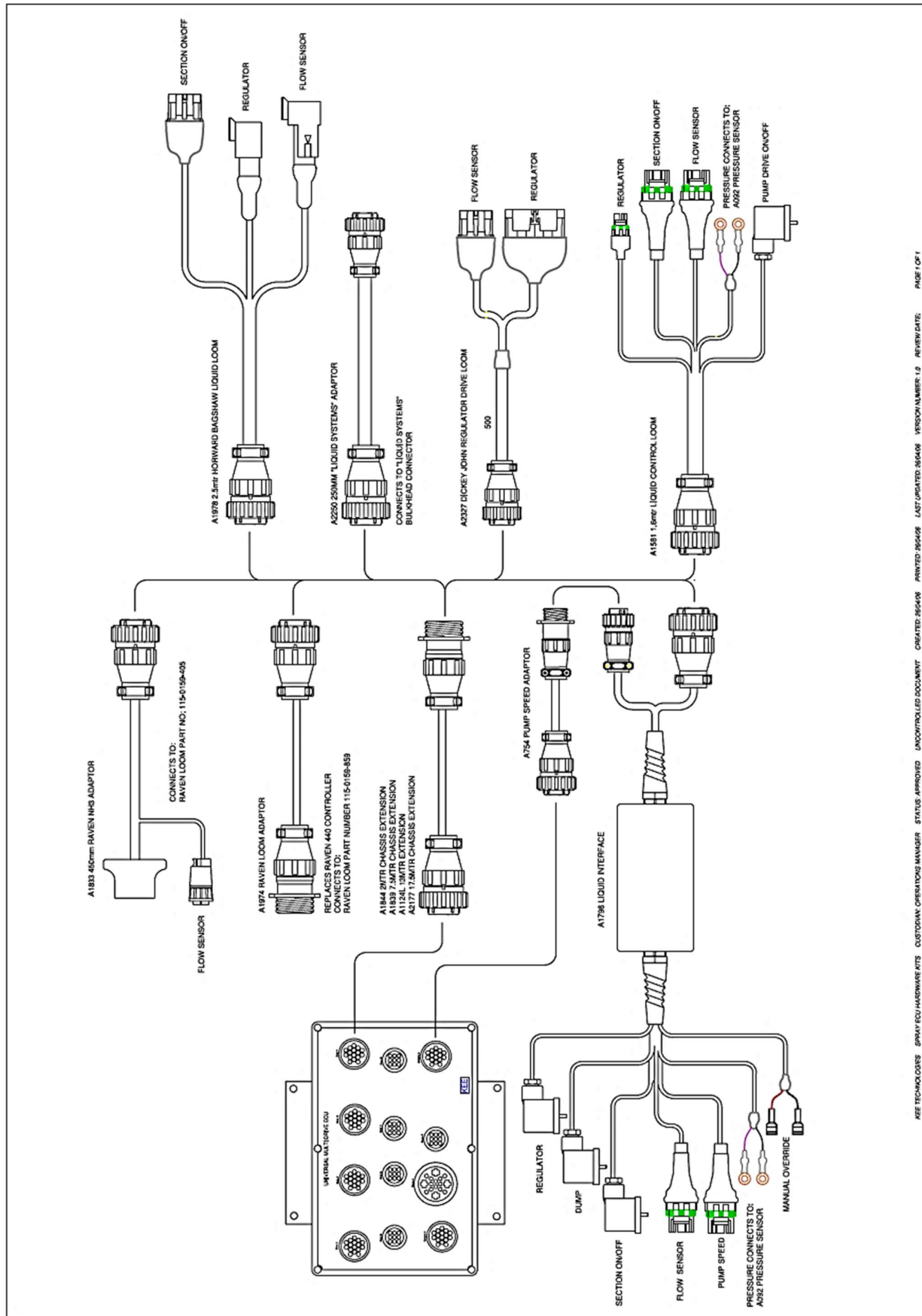
PART No.	DESCRIPTION	QUANTITY
C-207	2 CORE 5mm CABLE	1.3m
P-076	2 WAY FEMALE PACKARD HOUSING	1
P-077	2 WAY MALE PACKARD HOUSING	1
P-130	MALE PACKARD TERMINAL	2
P-131	FEMALE PACKARD TERMINAL SUIT 6mm CABLE	2
P-084	PACKARD CLIP	1
HG-618	PACKARD SEAL BLUE	4
HM-015	11mm CONDUIT	1.3m

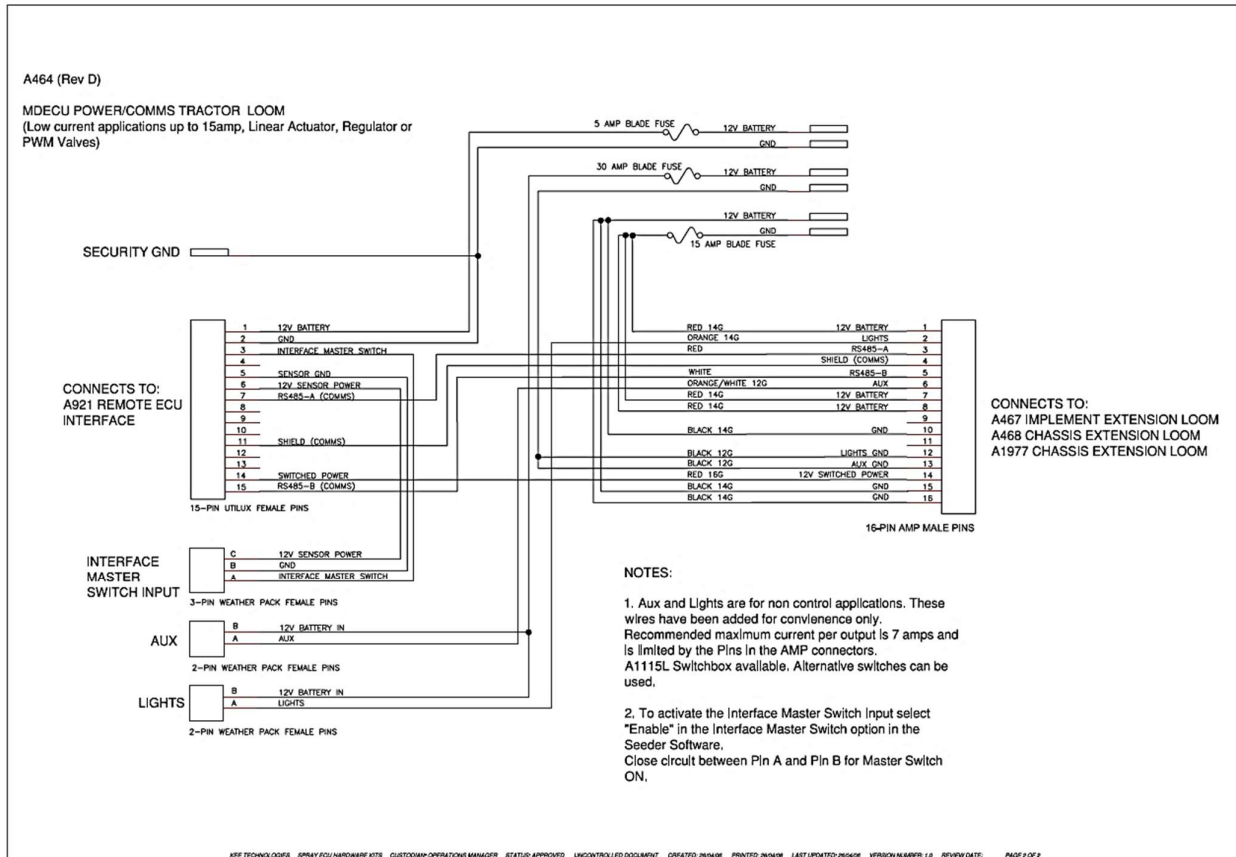
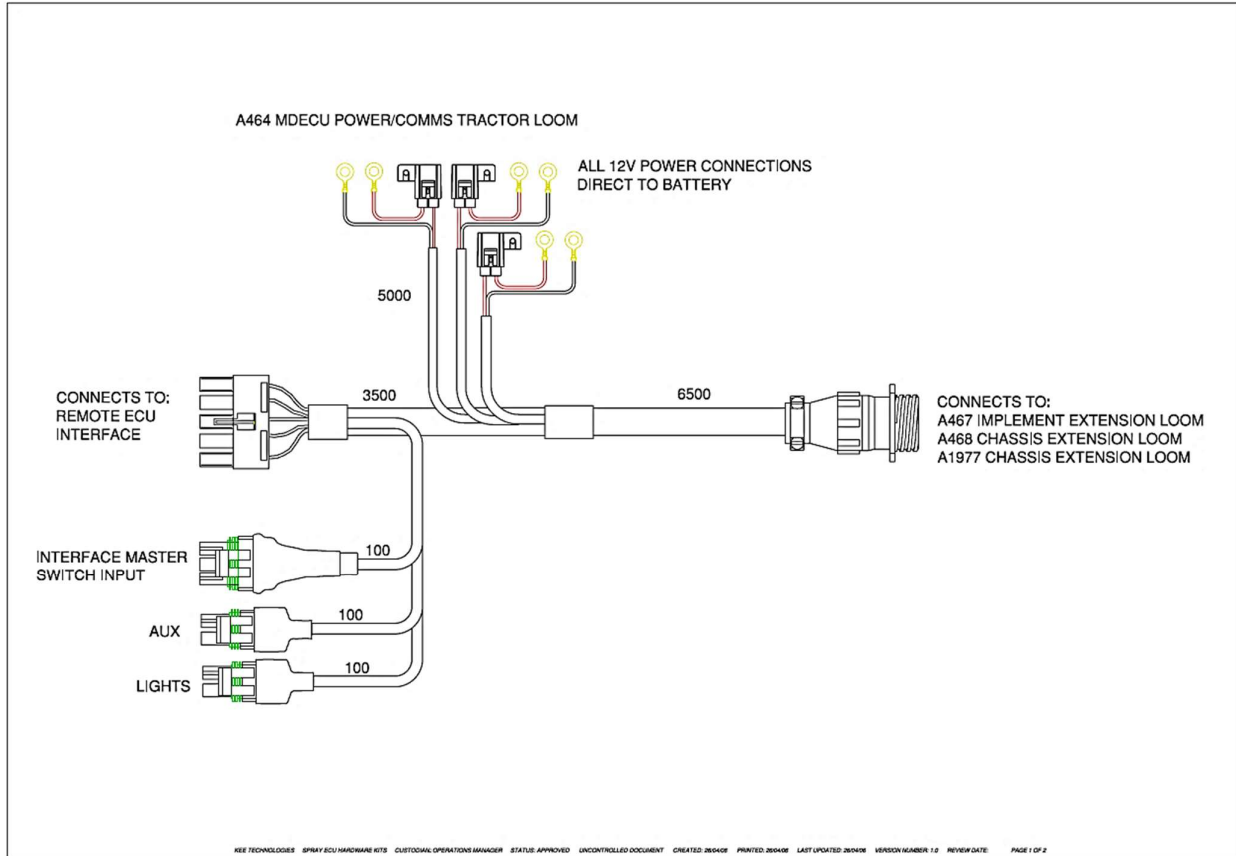
2.1.3 KEE LOOMS

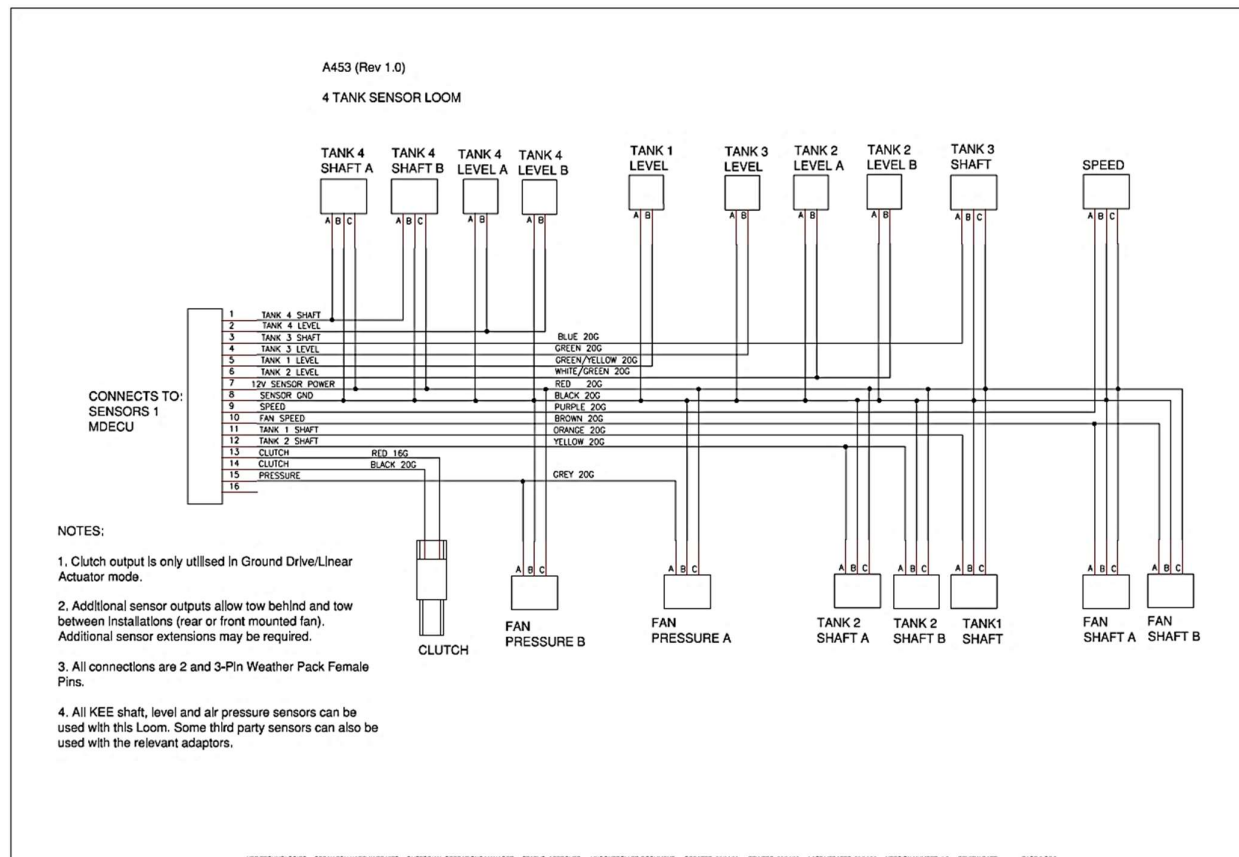
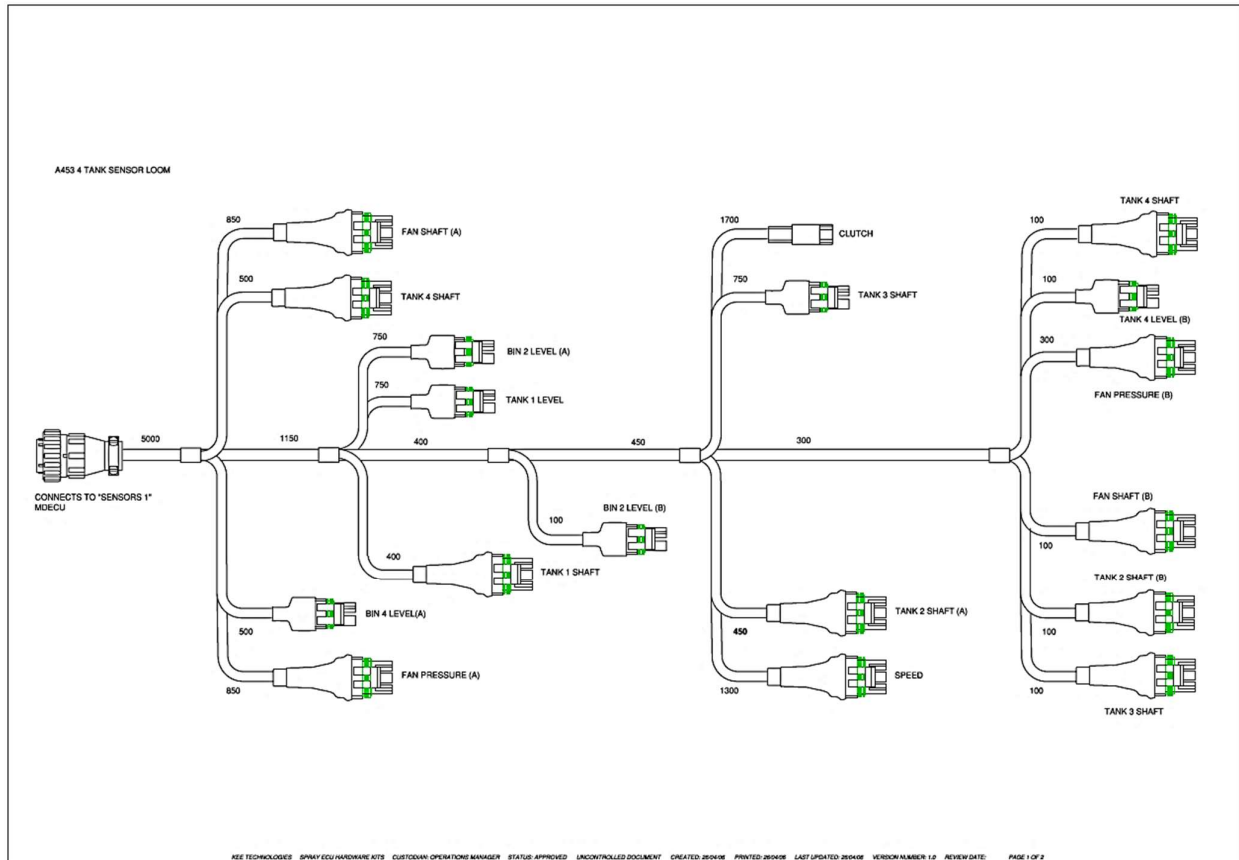


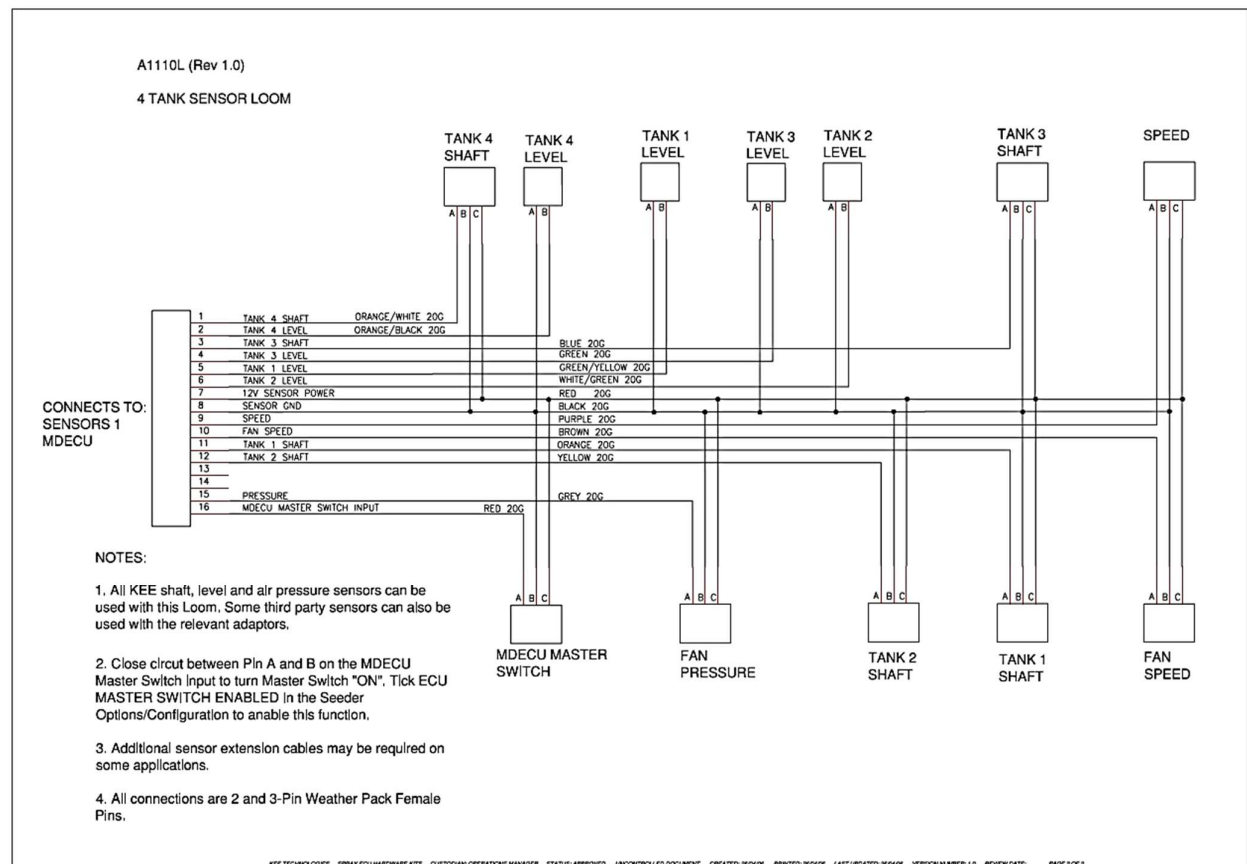
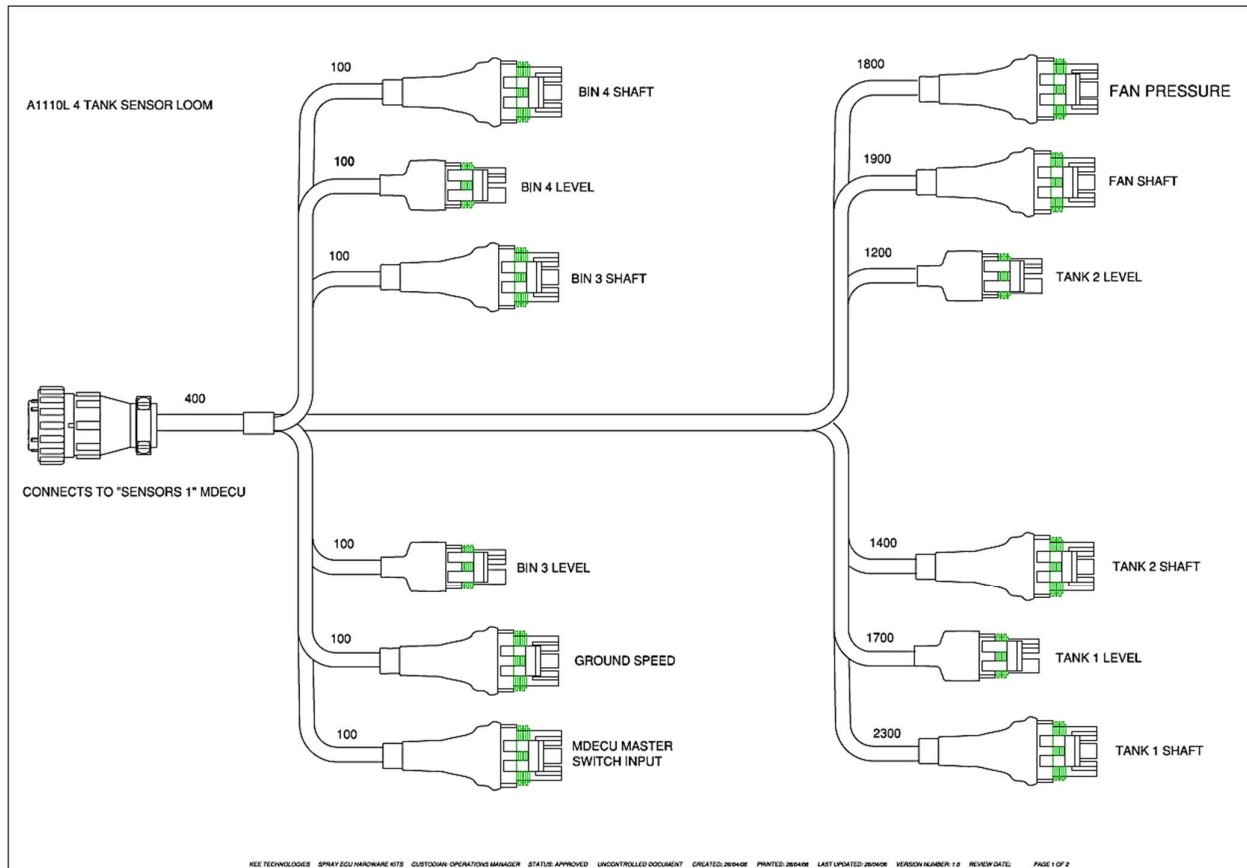




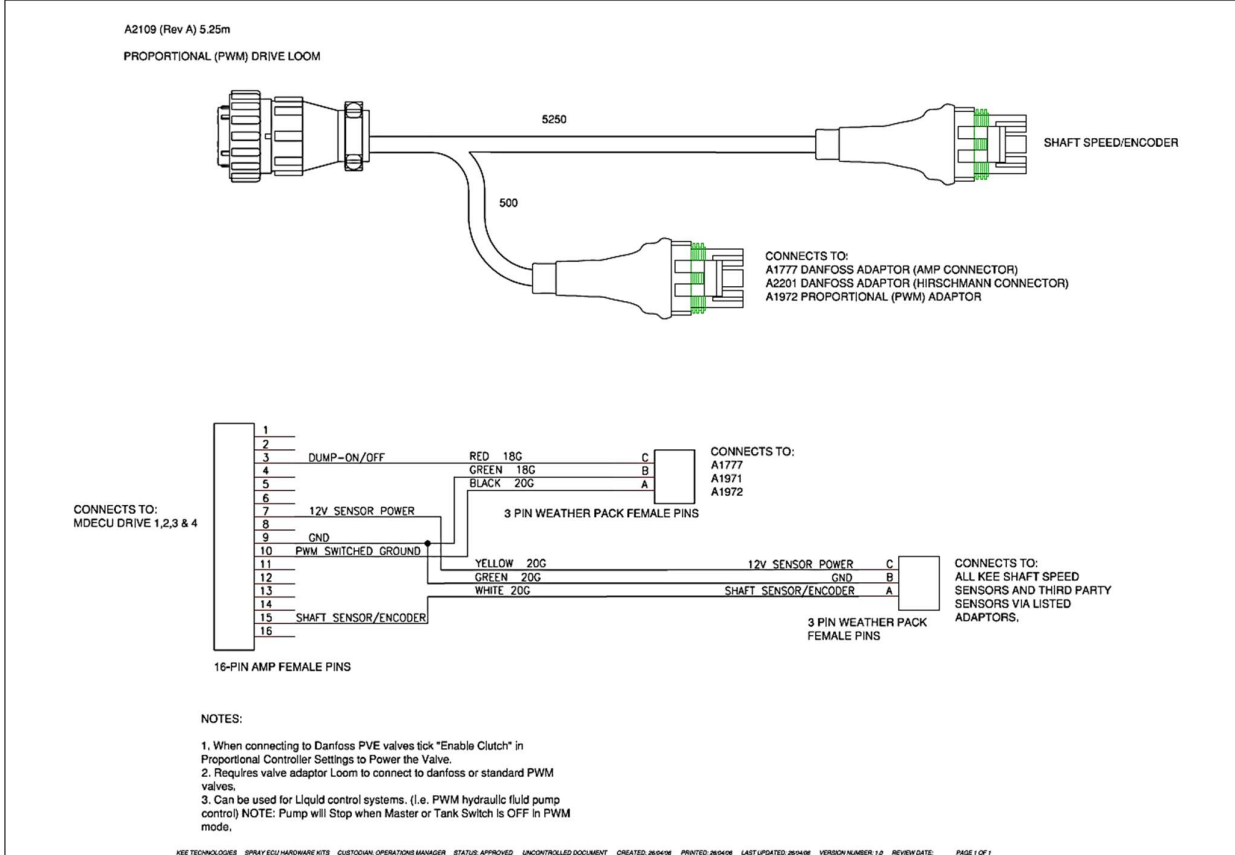
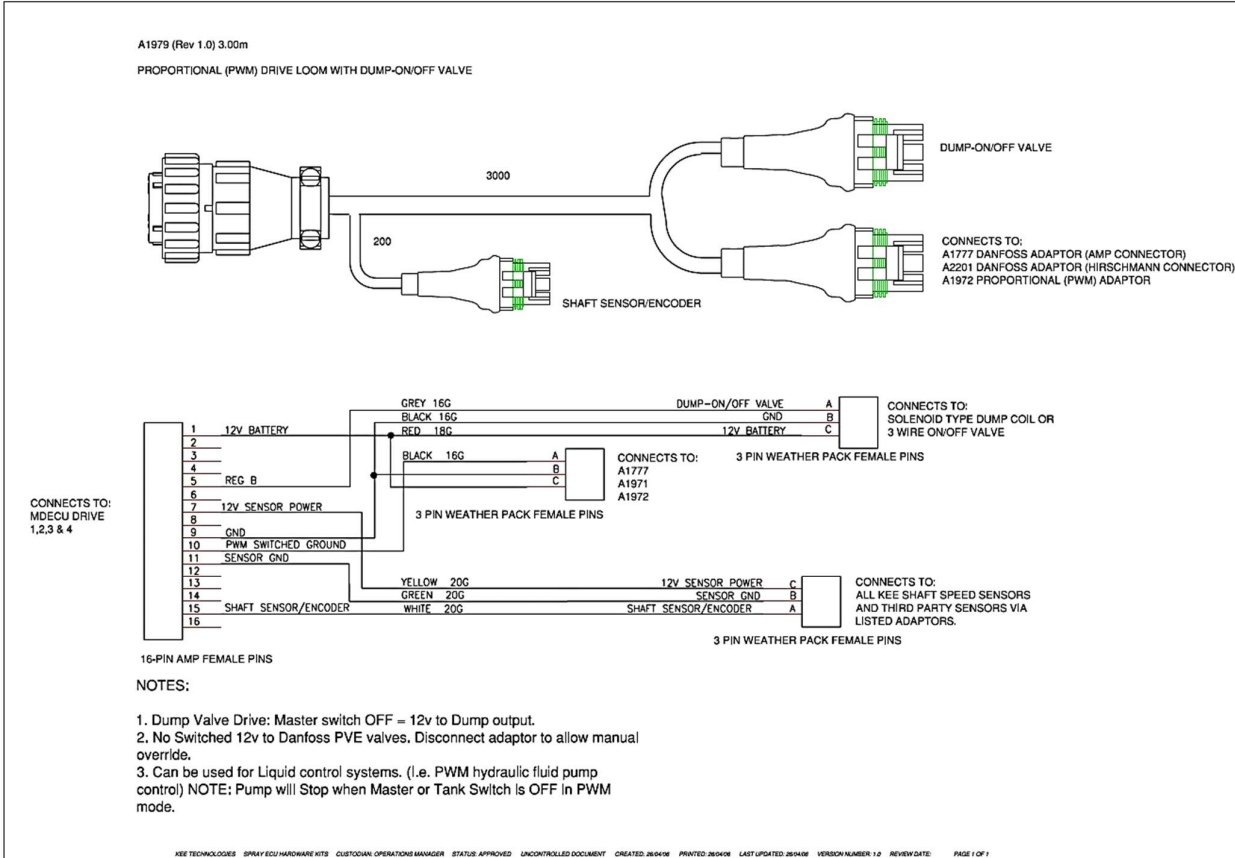


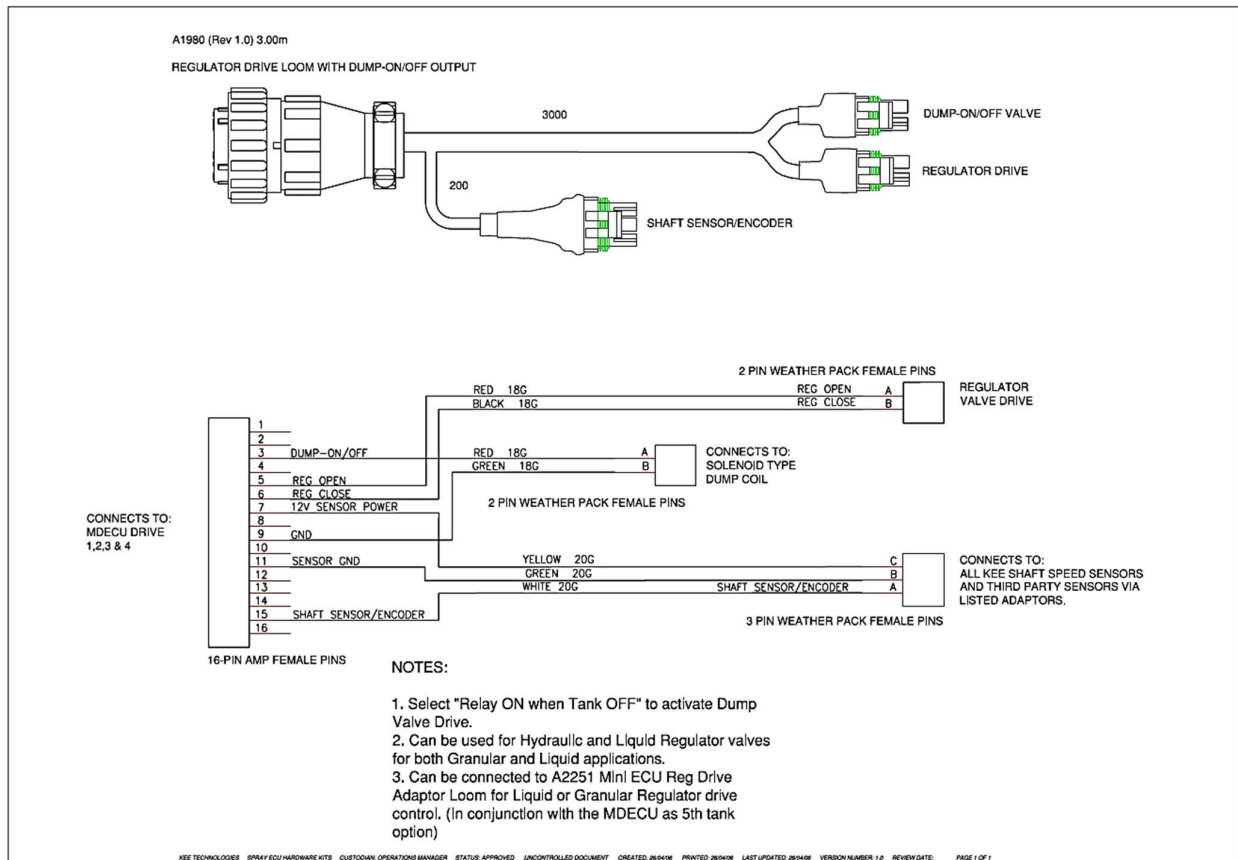
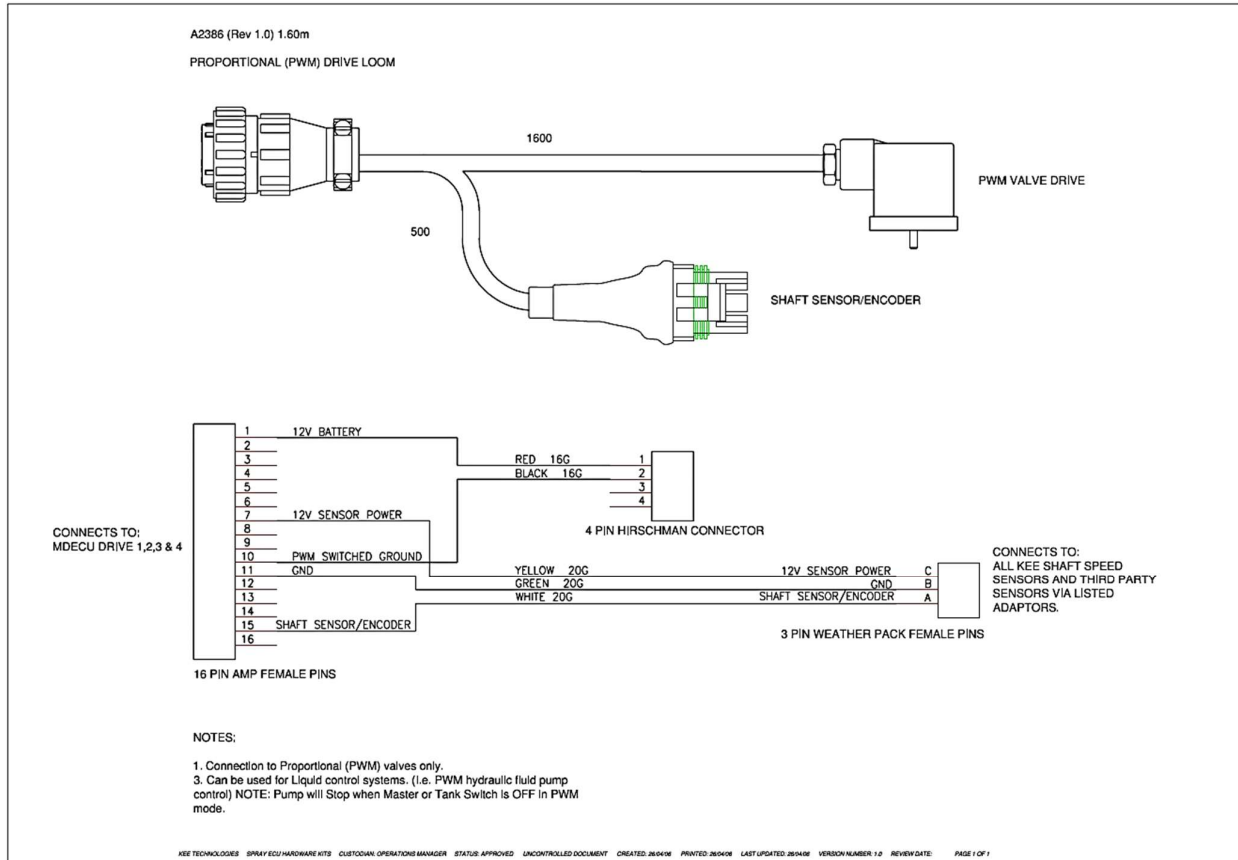


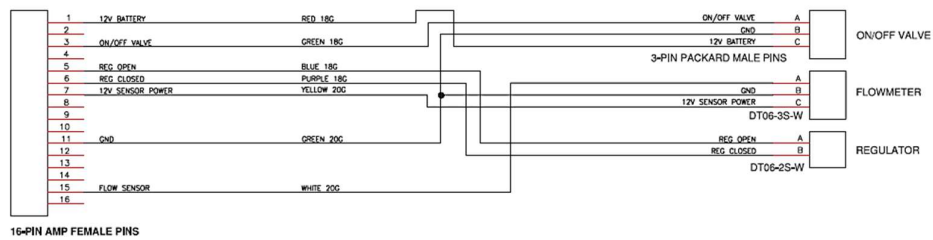
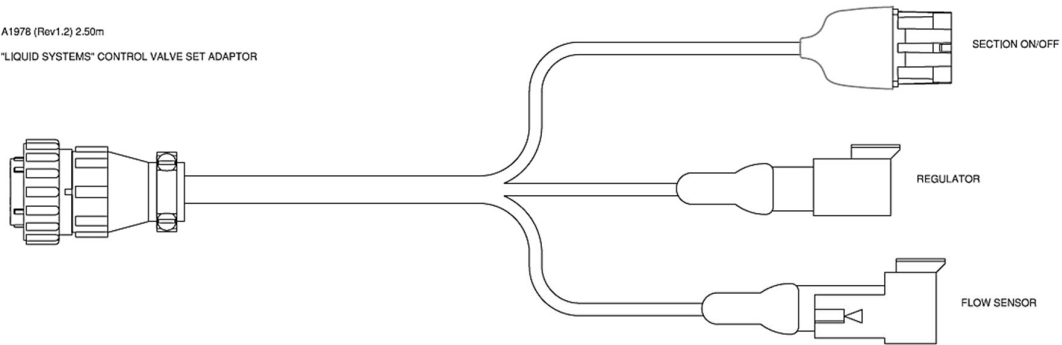




Ausplow Technical Service Manual



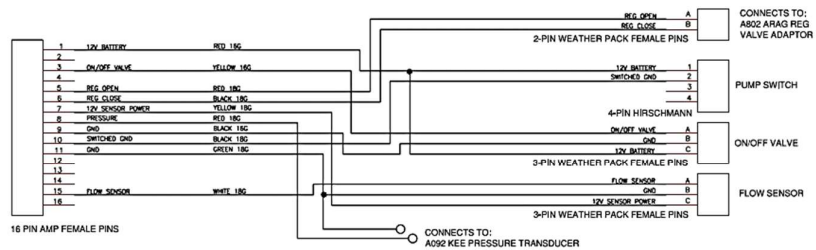
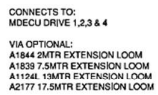
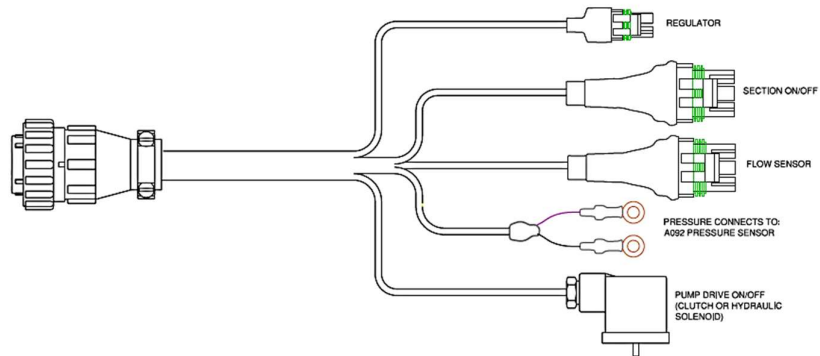
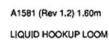




NOTES:

1. Tick "Relay on When Tank OFF" in Regulator Controller settings.
2. Can be used for Granular applications using an MFC hydraulic control valve.

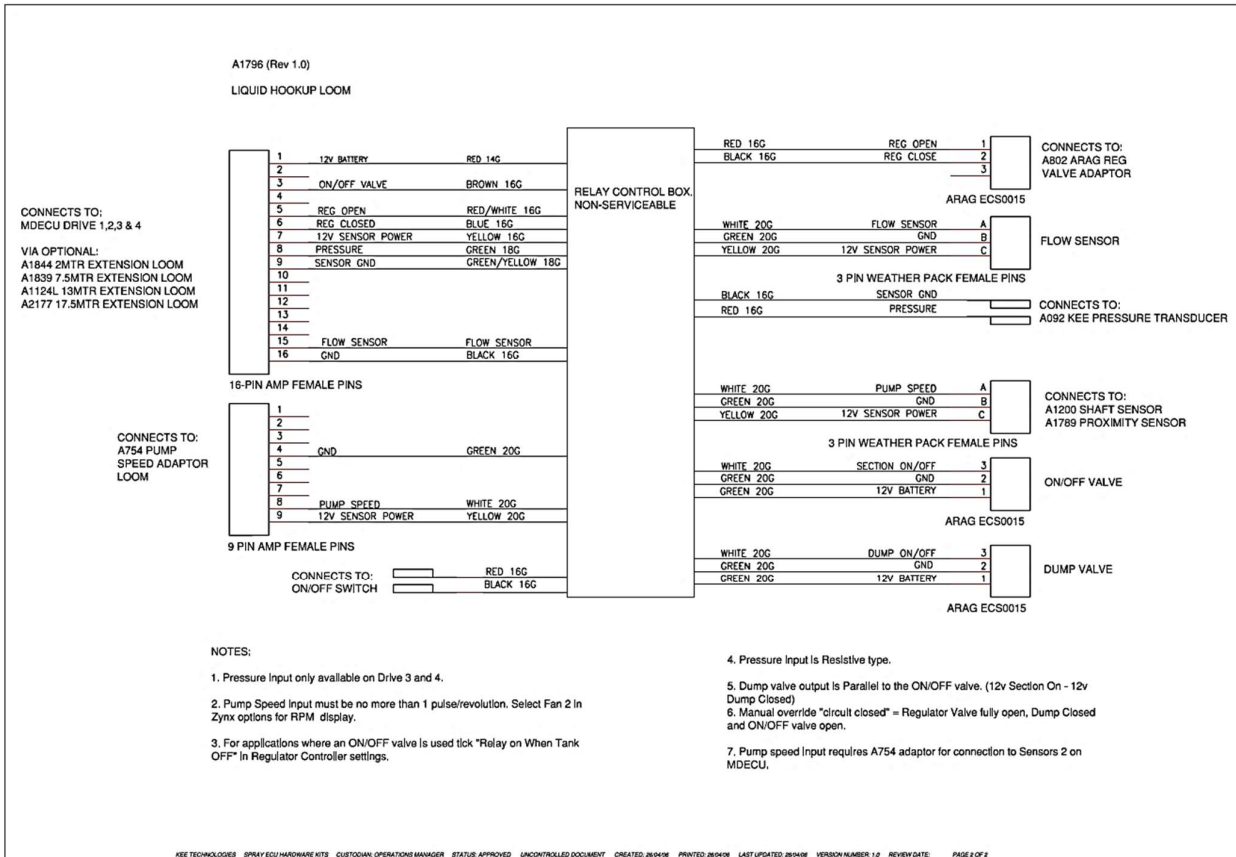
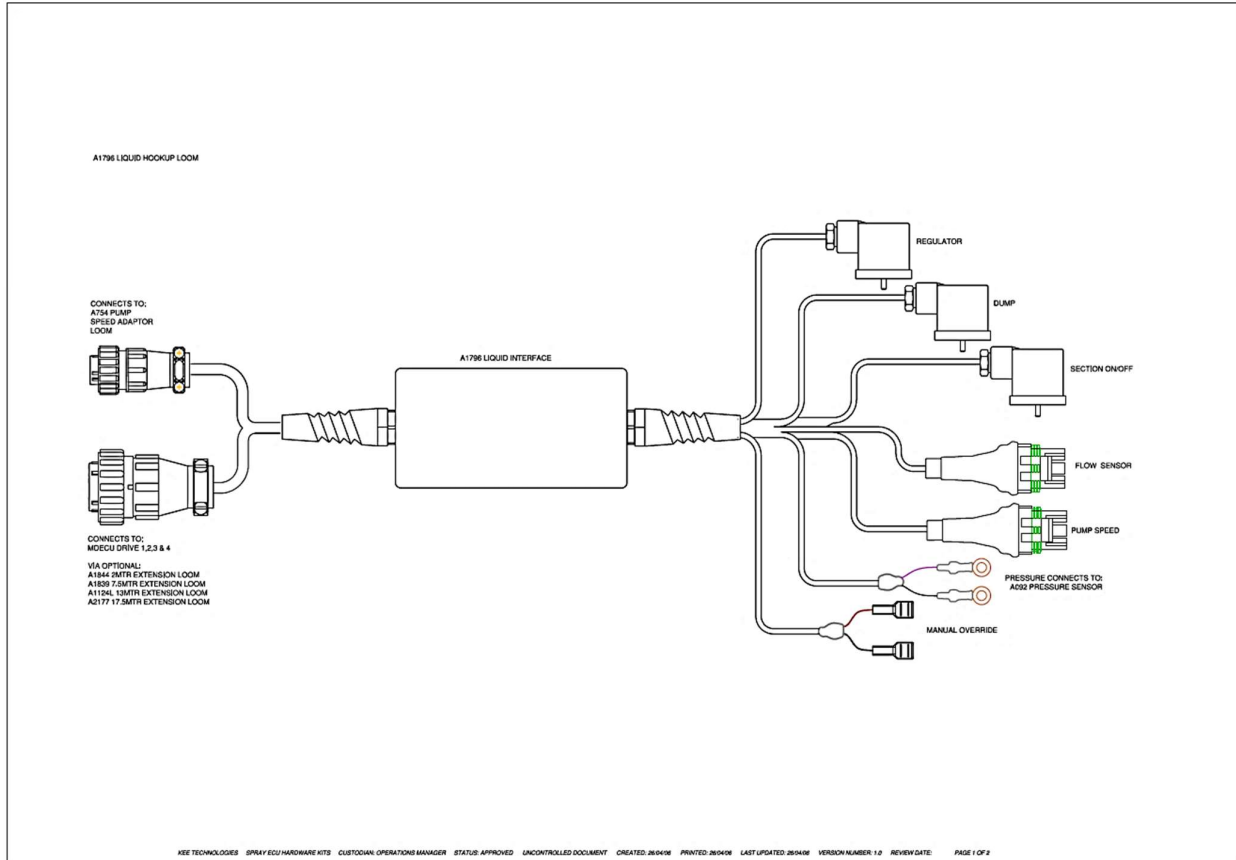
KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTODIAN: OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1



NOTES:

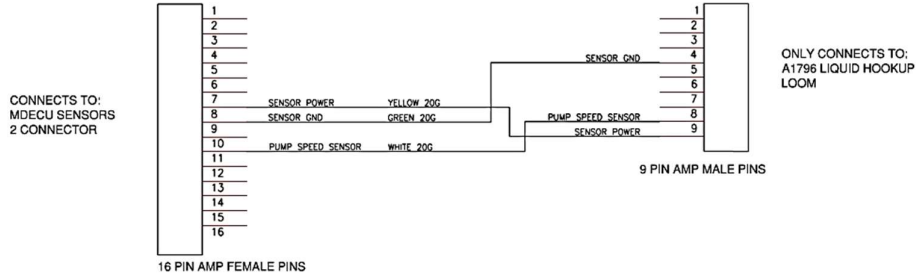
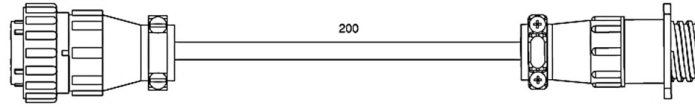
1. Pressure Input only available on MDECU Drive 3 and 4.
2. Press pump button on controller tank screen to activate 12v output. Pump Switch is separate to any controller functions. Will switch hydraulic solenoid coil or electromagnetic clutch up to 7amps.
3. For applications where an ON/OFF valve is used tick "Relay on When Tank OFF" in Regulator Controller settings.
4. Use 12v Battery from Pin+1 "Pump Switch" to power Raven Fast and Mid Tech Auto Range Valves.
5. ON/OFF requires adaptor to connect to ARAG valve. (3-wire valve ONLY)
6. Can be used for Granular applications using an MFC hydraulic control valve.

KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOIAN: OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1



A754 (Rev1.0) 0.10m

PUMP SPEED ADAPTOR FOR A1796 LIQUID HOOKUP LOOM



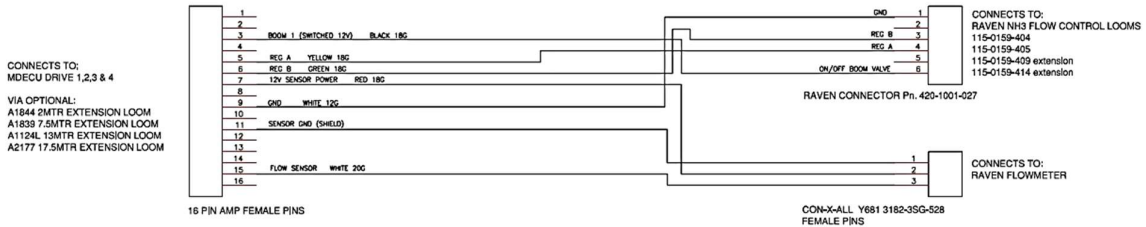
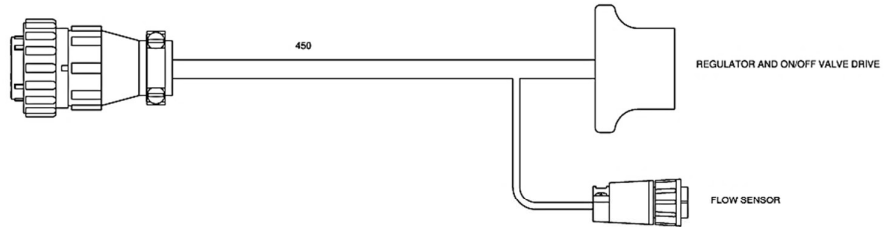
NOTES:

1. pump speed viewed in "Fan 2" Display in Seeder Software
2. Select Fan 2 in Options
3. Pump speed not available if fan 2 input already used.

KEE TECHNOLOGIES SPRAY ECU HARDWARE MTS CUSTODIAN OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1

A1833 (Rev 1.1) 0.45m

RAVEN NH3 ADAPTOR CABLE



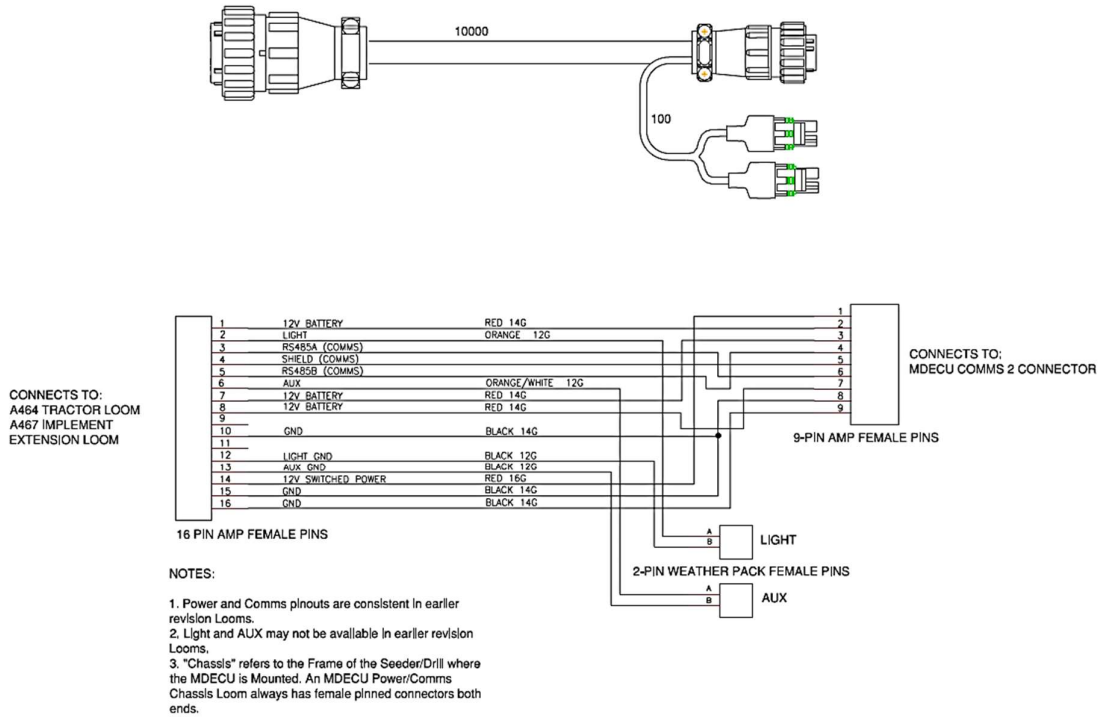
NOTES:

1. For applications where an ON/OFF valve is used tick "Relay on When Tank OFF" in Regulator Controller settings.
2. For applications where no ON/OFF valve is used tick "Close Valve when Flow is OFF"
3. Flow sensor connection may require A2184 12v - 5v adaptor. Confirm with flowmeter manufacturer before connection.
4. Raven "Fast Close Valve" requires additional 12v supply to Regulator valve.

KEE TECHNOLOGIES SPRAY ECU HARDWARE MTS CUSTODIAN OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1

A468 (Rev 1.1) 10.00m

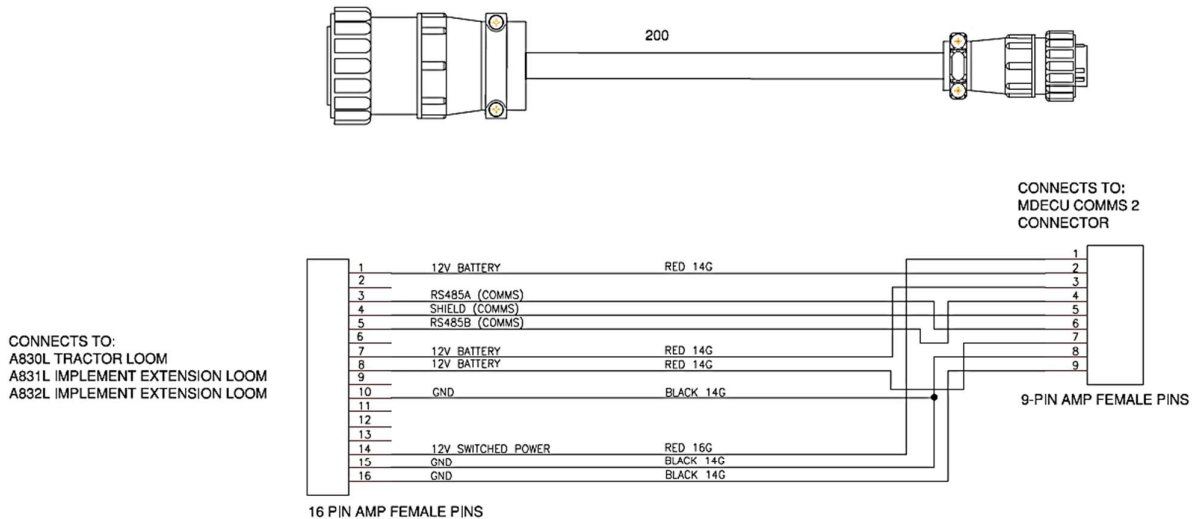
MDECU POWER/COMMS CHASSIS EXTENSION LOOM
(Low current applications up to 15amp, Linear Actuator, Regulator or PWM Valves)



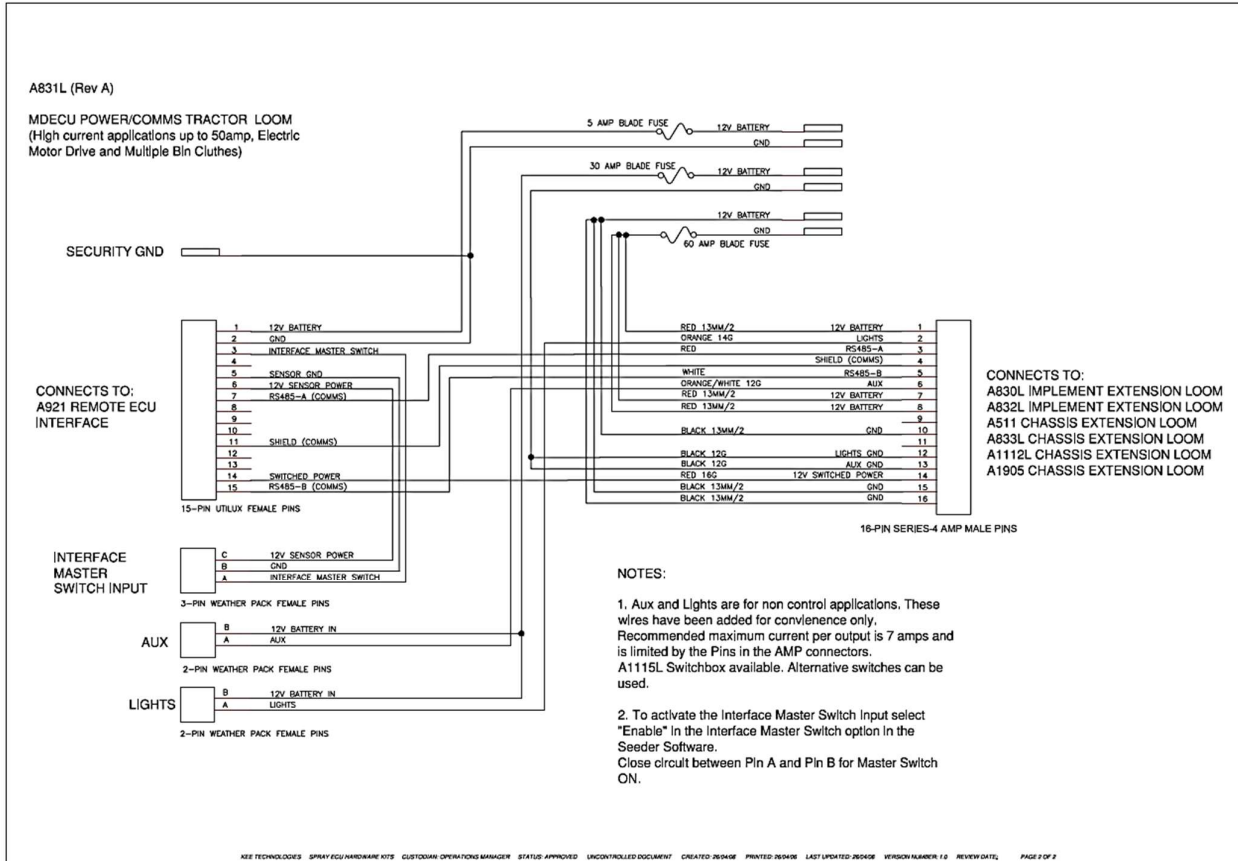
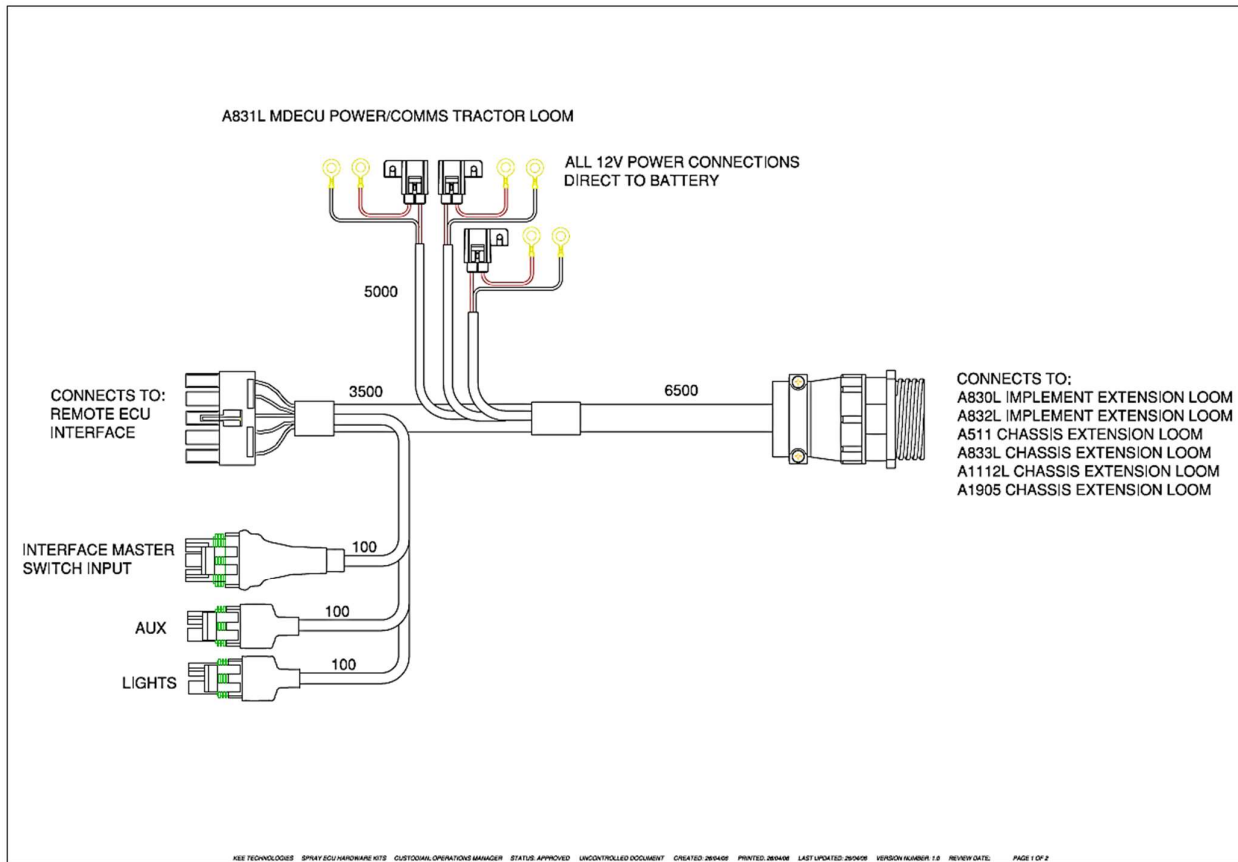
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A1905 (Rev 1.1) 0.20m

MDECU POWER/COMMS CHASSIS EXTENSION LOOM
(Low current applications up to 15amp, Linear Actuator, Regulator or PWM Valves)

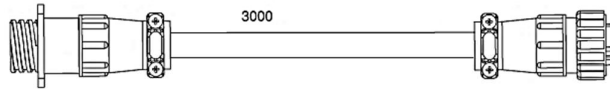


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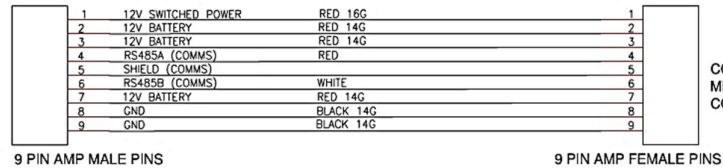


A1907 (Rev 1.0) 3.00m

MDECU POWER/COMMS CHASSIS EXTENSION LOOM
(Low current applications up to 15amp, Linear Actuator, Regulator or PWM Valves)



CONNECTS TO:
A1905 CHASSIS EXTENSION LOOM
A1977 CHASSIS EXTENSION LOOM
A468 CHASSIS EXTENSION LOOM

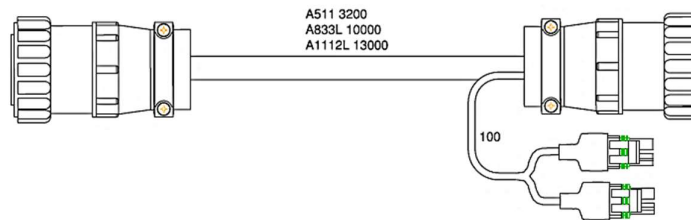


CONNECTS TO:
MDECU COMMS 2
CONNECTOR

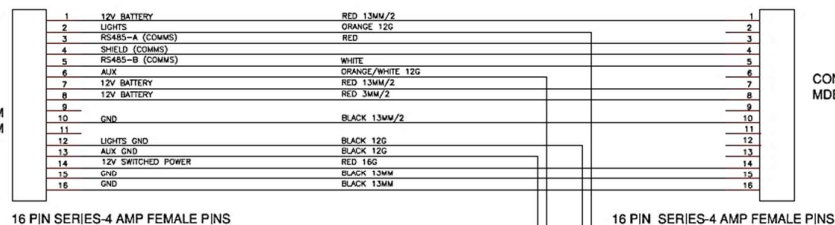
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A511 (Rev 1.1) - 3.20m
A833L (Rev A) - 10.00m
A1112L (Rev A) - 13.00m

MDECU POWER/COMMS CHASSIS EXTENSION LOOM
(High current applications up to 50amp, Electric Motor Drive or Multiple Bin Clutches)



CONNECTS TO:
A830L TRACTOR LOOM
A831L IMPLEMENT EXTENSION LOOM
A832L IMPLEMENT EXTENSION LOOM



CONNECTS TO:
MDECU DRIVE 1

NOTES:

1. Power and Comms pinouts are consistent in earlier revision Looms.
2. Light and AUX may not be available in earlier revision Looms.
3. "Chassis" refers to the Frame of the Seeder/Drill where the MDECU is Mounted. An MDECU Power/Comms Chassis Loom always has female pinned connectors both ends.



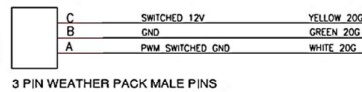
KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1

A1777 (Rev 3.2) 0.38m

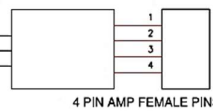
PWM TO DANFOSS PVEx VALVE ADAPTOR
(AMP PLUG)



CONNECTS TO:
A2109 PWM DRIVE LOOM
A1979 PWM DRIVE LOOM



ADAPTOR CIRCUIT BOARD
FITTED TO VALVE
CONNECTOR
NON-SERVICEABLE



CONNECTS TO:
DANFOSS PVEA/PVEH
HYDRAULIC ACTUATOR
VALVE

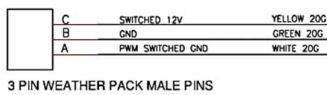
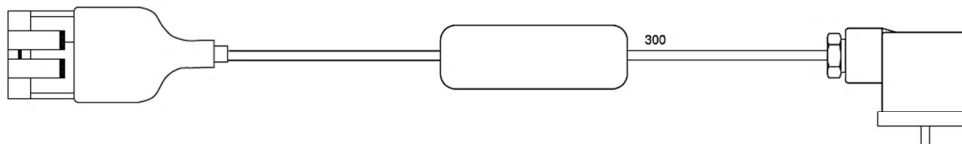
NOTES:

1. Requires "ENABLE CLUTCH" ticked under Proportional Controller Settings to activate 12v on pin 3 for Manual control of Danfoss PVEx Valves.
2. Converts PWM input to analog output.
1/2 system voltage (6volts) = Zero flow or Neutral
1/4 system voltage (3 volts) = 100% flow out Valve Port A
NOTE: Uni-Directional only

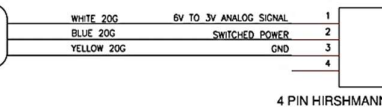
KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/08 PRINTED: 26/04/08 LAST UPDATED: 26/04/08 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 2 OF 2

A1971 (Rev 1.0) 0.38m

PWM TO DANFOSS PVEx VALVE ADAPTOR
(HIRSCHMANN PLUG)



ADAPTOR CIRCUIT
BOARD FITTED IN LINE
NON-SERVICEABLE



CONNECTS TO:
DANFOSS PVEA/PVEH
HYDRAULIC ACTUATOR
VALVE

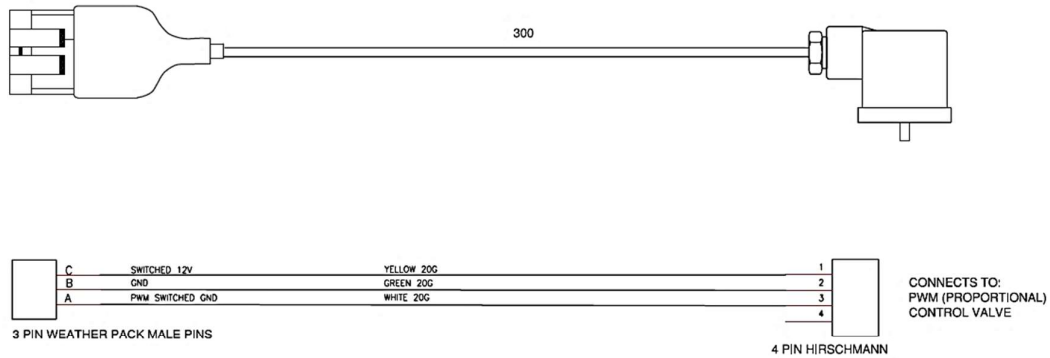
NOTES:

1. Requires "ENABLE CLUTCH" ticked under Proportional Controller Settings to activate 12v on pin 3 for Manual control of Danfoss PVEx Valves.
2. Converts PWM input to analog output.
1/2 system voltage (6volts) = Zero flow or Neutral
1/4 system voltage (3 volts) = 100% flow out Valve Port A
NOTE: Uni-Directional only

KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/08 PRINTED: 26/04/08 LAST UPDATED: 26/04/08 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 2 OF 2

A1972 (Rev 1.0) 0.30m

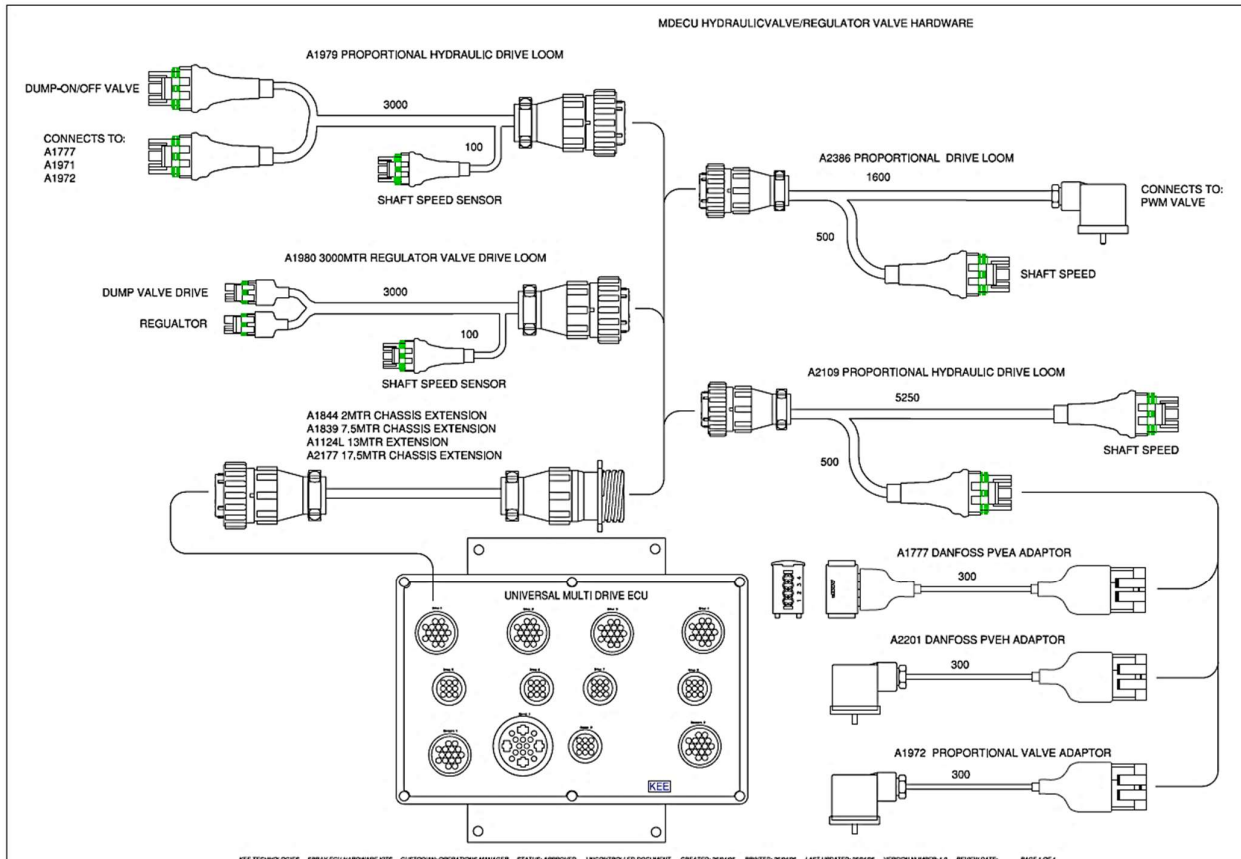
PWM CONTROL VALVE LOOM
(HIRSCHMANN PLUG)



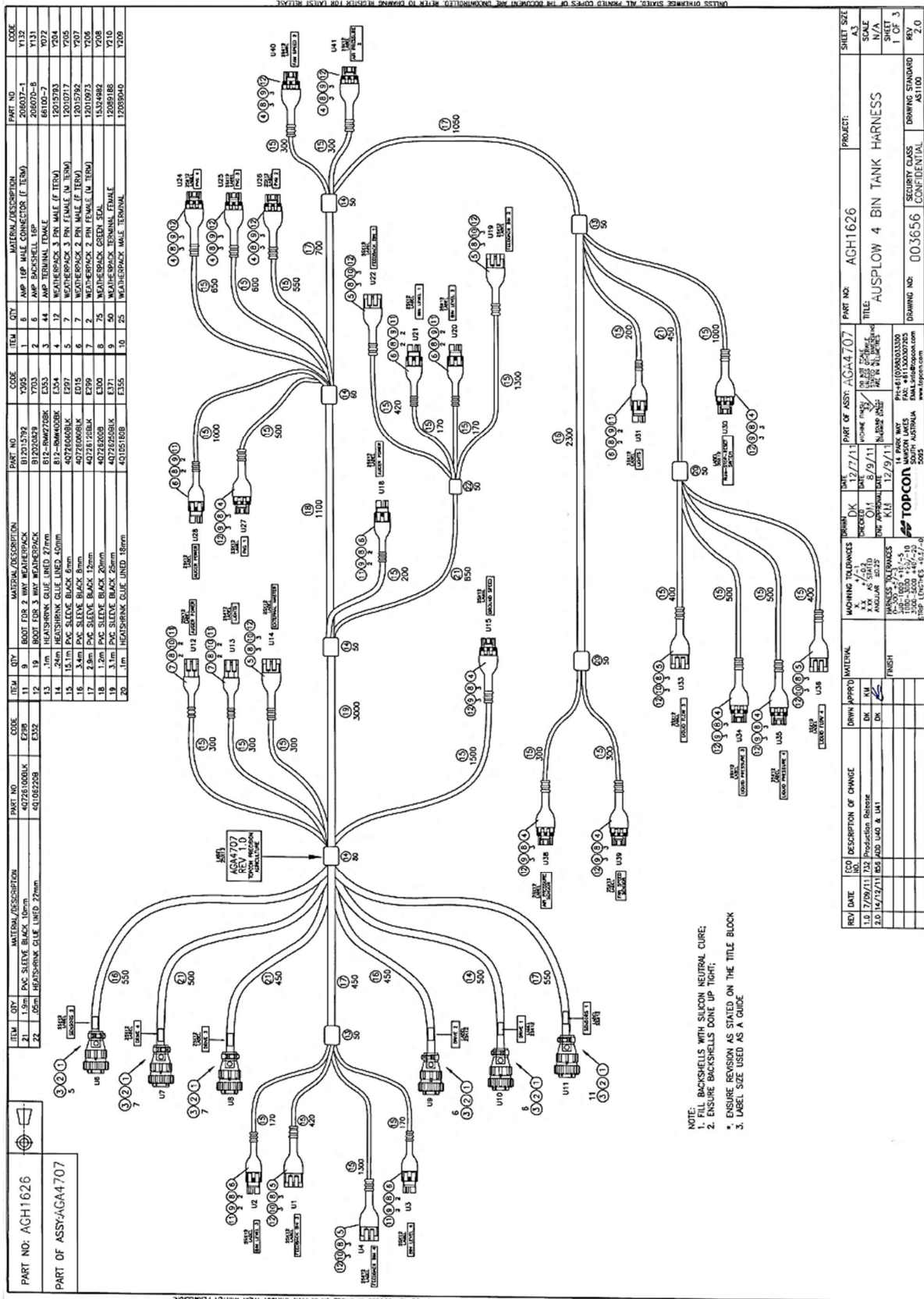
NOTES:

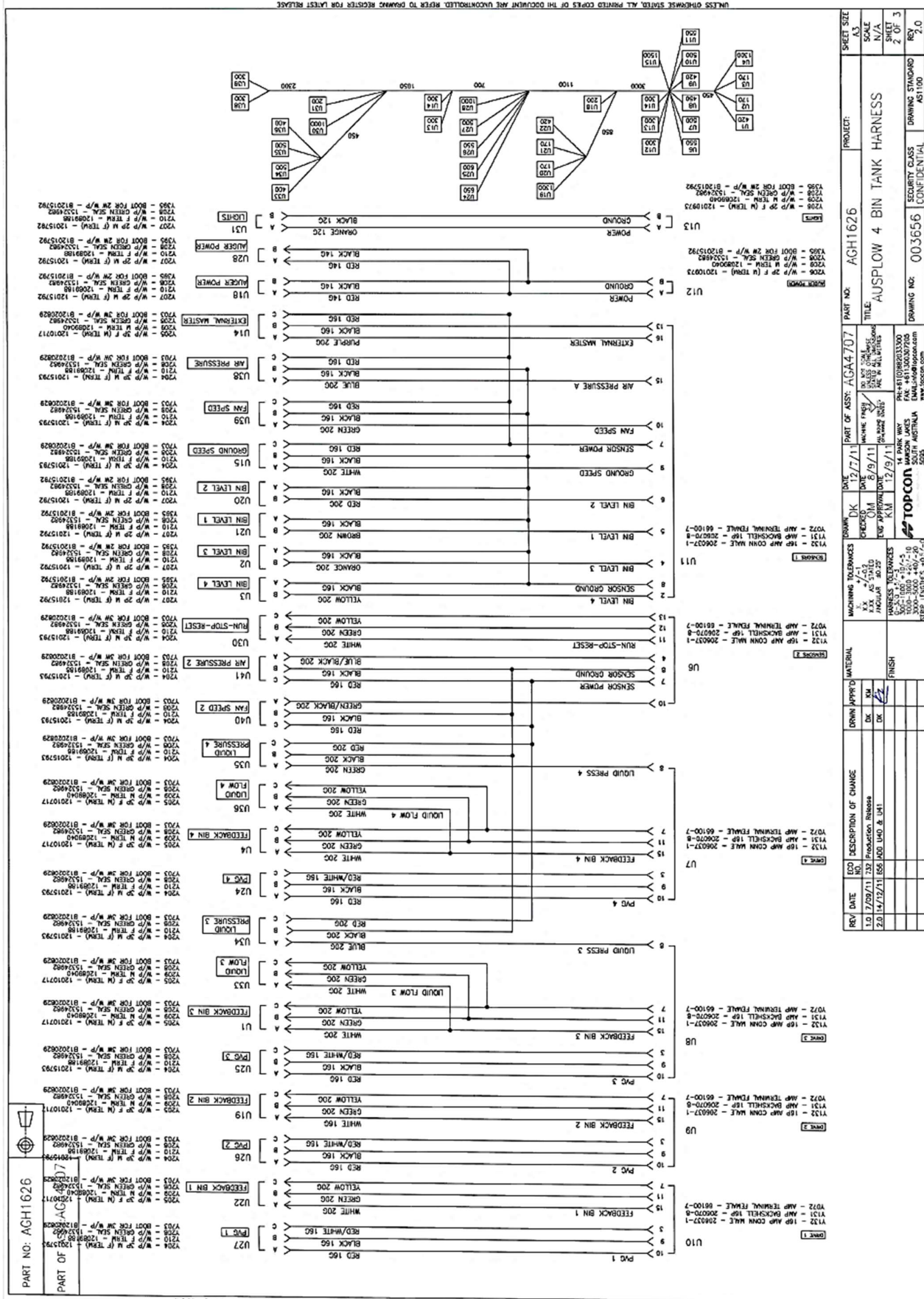
1. Requires "ADD DITHER" ticked under Proportional Controller Settings.
2. Not used for Danfoss PVE Valves.

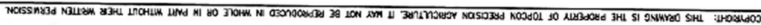
KEE TECHNOLOGIES SPRAY ECU/HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/08 PRINTED: 26/04/08 LAST UPDATED: 26/04/08 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 2 OF 2

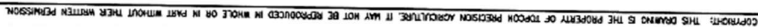


2.1.4 TOPCON BIN LOOMS

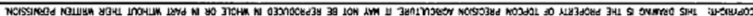




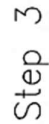








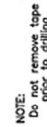
2. POSITION BOARD AS SHOWN IN THE
SWI USING THE JIG MARKED A267



3. ENSURE TAPE IS A TIGHT FIT
FILL EXTRUSION WITH BLACK EPOXY: Z105
AS PER INSTRUCTIONS IN SWL_1005466

12 MAKE SURE TAPE IS TIGHT FIT TO STOP EPOXY FROM LEAKING USING WHITE TESA TAPE OR SIMILAR

4. MAKE SURE EPOXY IS SET THEN DRILL 2 HOLES
OF 5mm USING TEMPLATE PROVIDED WITH IIC



11

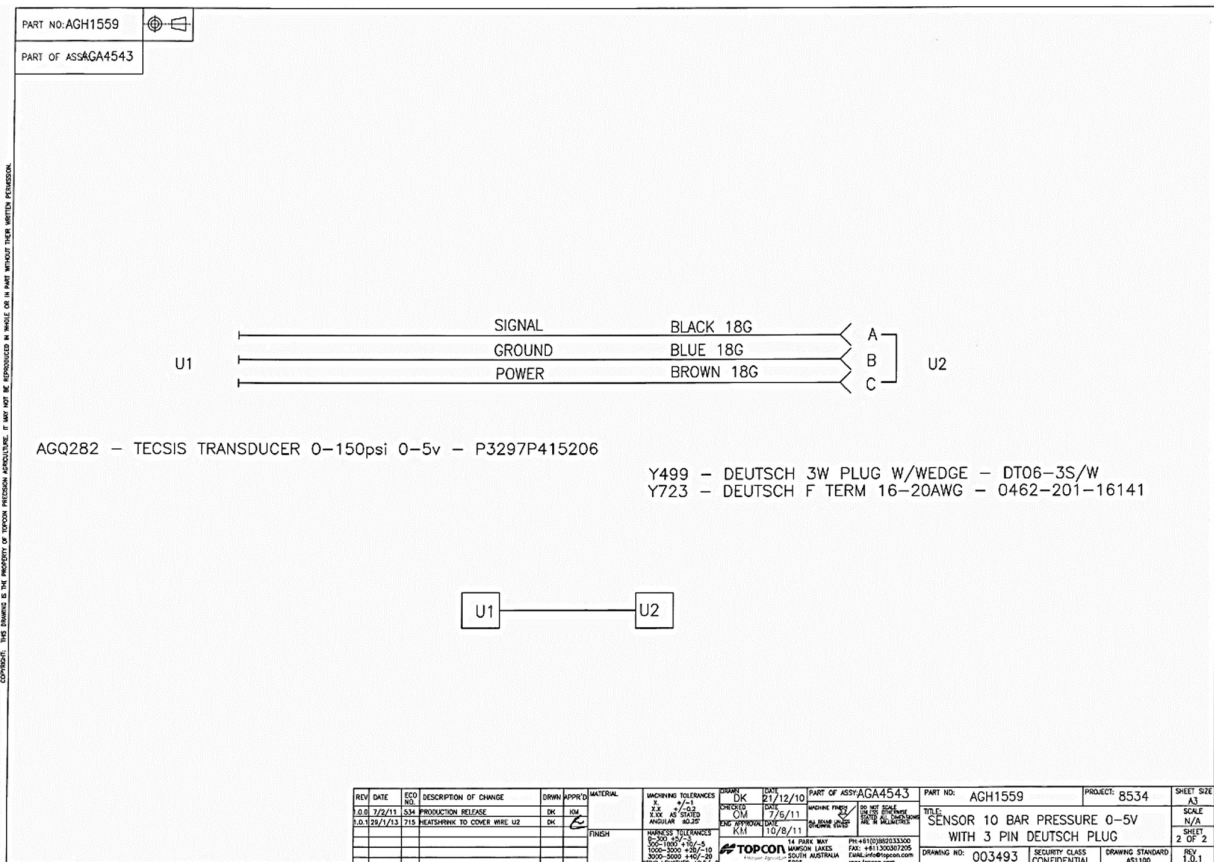
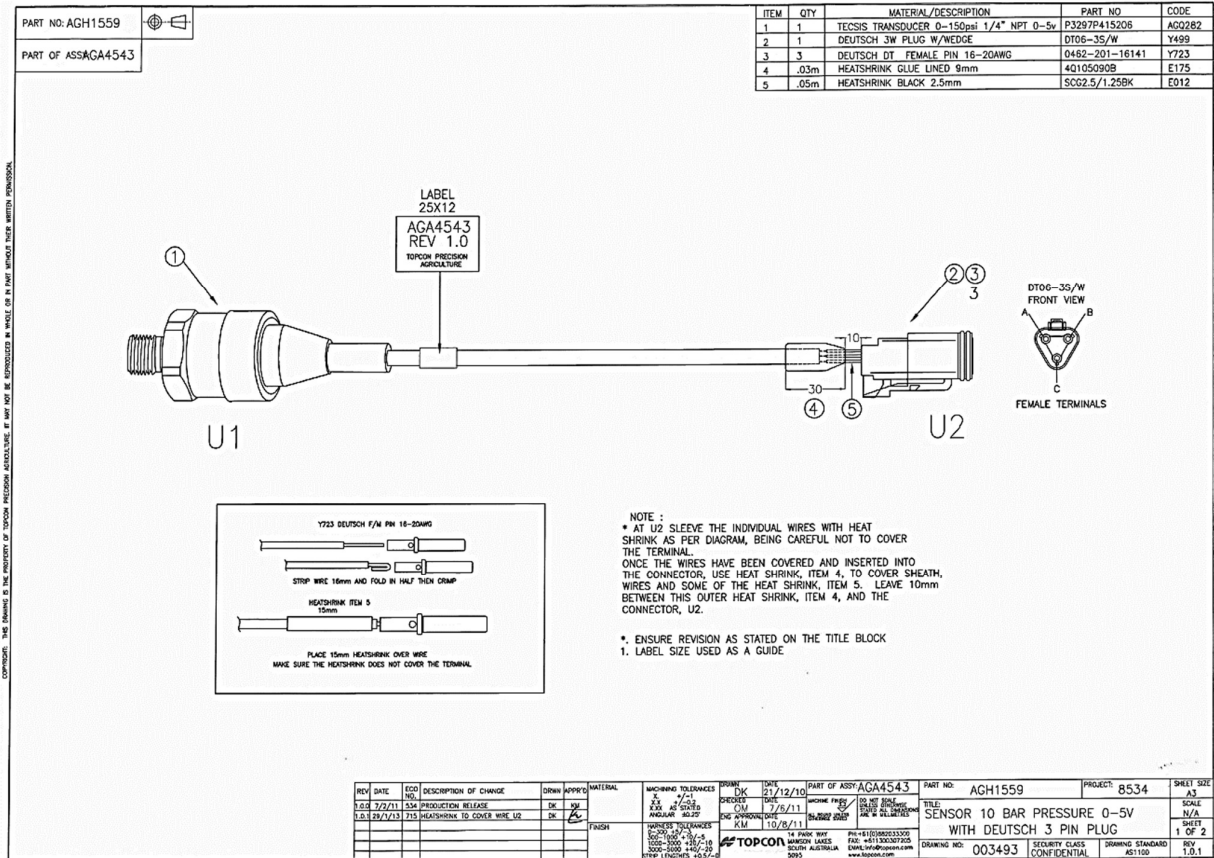
TAPE TO FIX TO SIDE
Using masking tape cover the unit. Secure screw to side with tape.

Wooden stick similar to ice cream stick or coffee stirrer

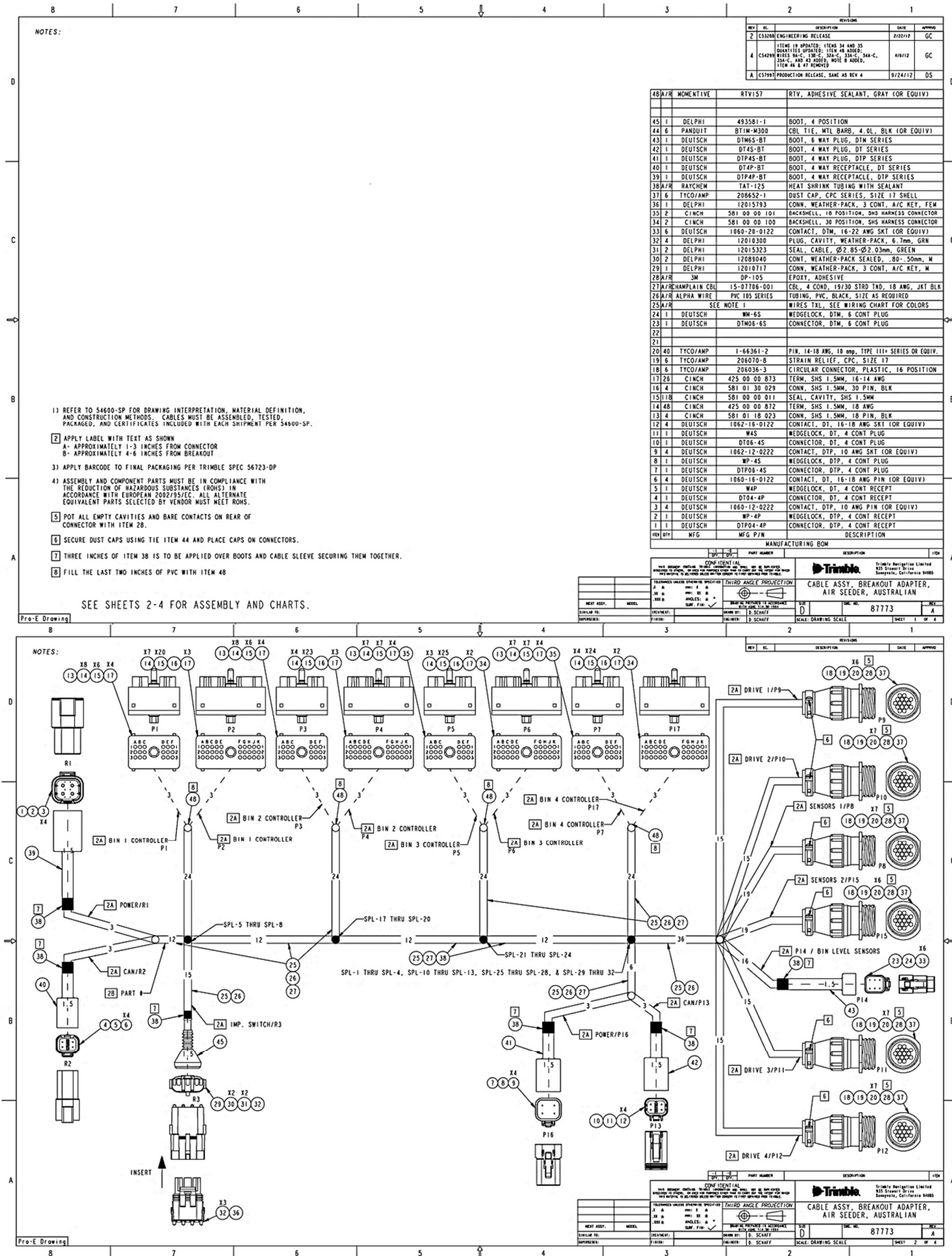
REV	DATE	ECO NO	DESCRIPTION OF CHANGE	DRAWN	CHECKED	APPROVED	ISSUED	DATE	DATE	SIT	APPROVAL	PROJECT	SHEET SIZE
1	28/4/15		Original draft	DAK	WLS	WLS	DAK	28/4/15	28/4/15	DAK	WLS	P684-2	A3
NOTE: THIS DOCUMENT MUST COMPLY WITH THE REQUIREMENTS OF THE E.O. ROTH DIRECTIVE  TOPCON 41 PARKVIEW 14 WILSON LAKES SOUTH AUSTRALIA TEL: 08 83503330 FAX: 08 83503300 EMAIL: info@topcon.com.au													
TITLE: AIR SEEDER FAN PRESSURE KIT WITH DEUTSCH PART NO: 1009527-01 SCALE: N/A SHEET: 2 of 2 DRAWING: FINISHED REV: AT100 SECURITY CLASS: CONFIDENTIAL													

NOTE: THIS COMPONENT MUST COMPLY WITH THE REQUIREMENTS OF THE E.U. RoHS DIRECTIVE

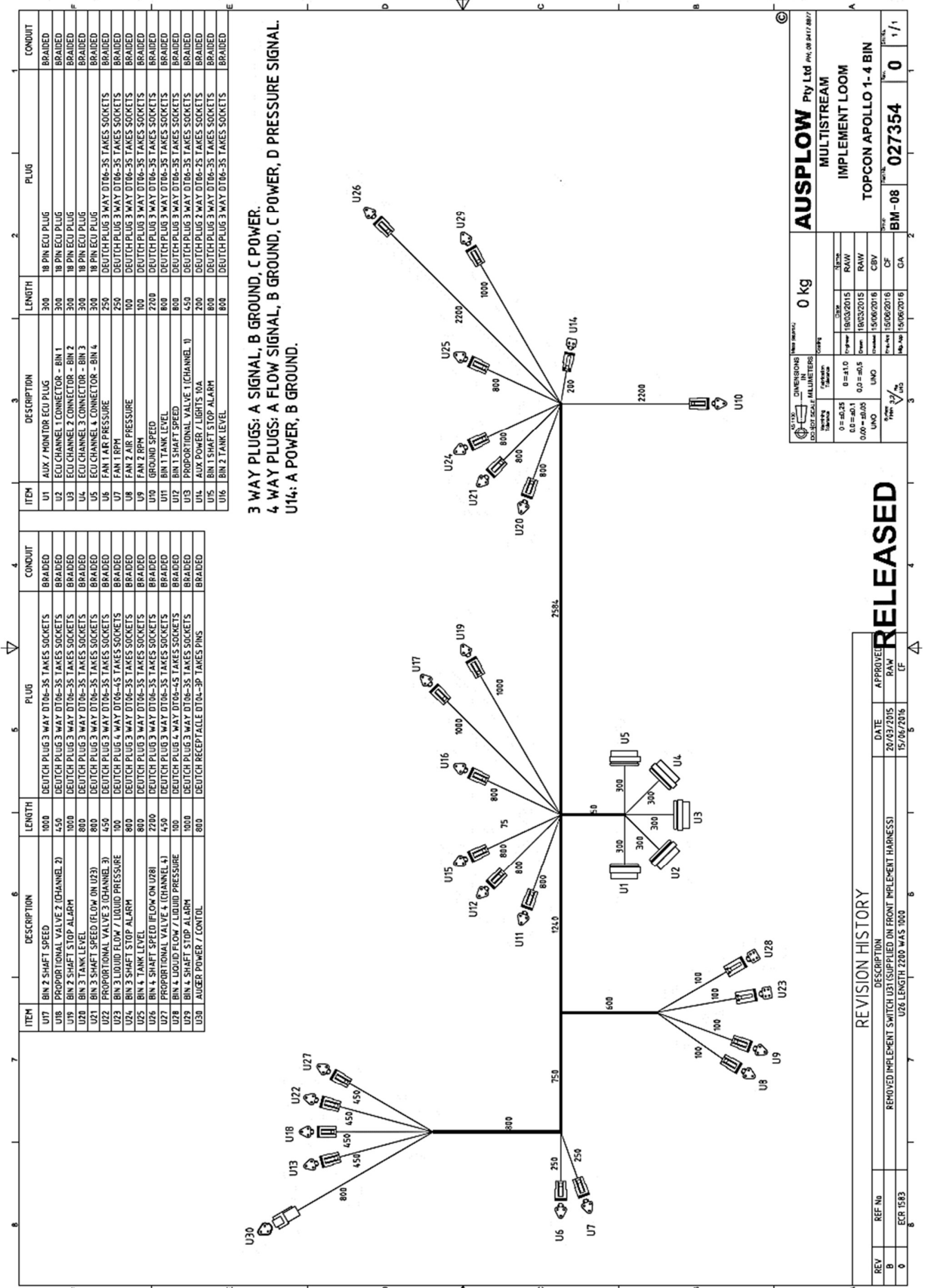
Ausplow Technical Service Manual



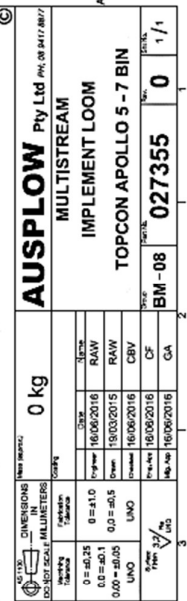
2.1.5 TRIMBLE BIN LOOMS



2.1.6 AUSPLOW BIN LOOMS



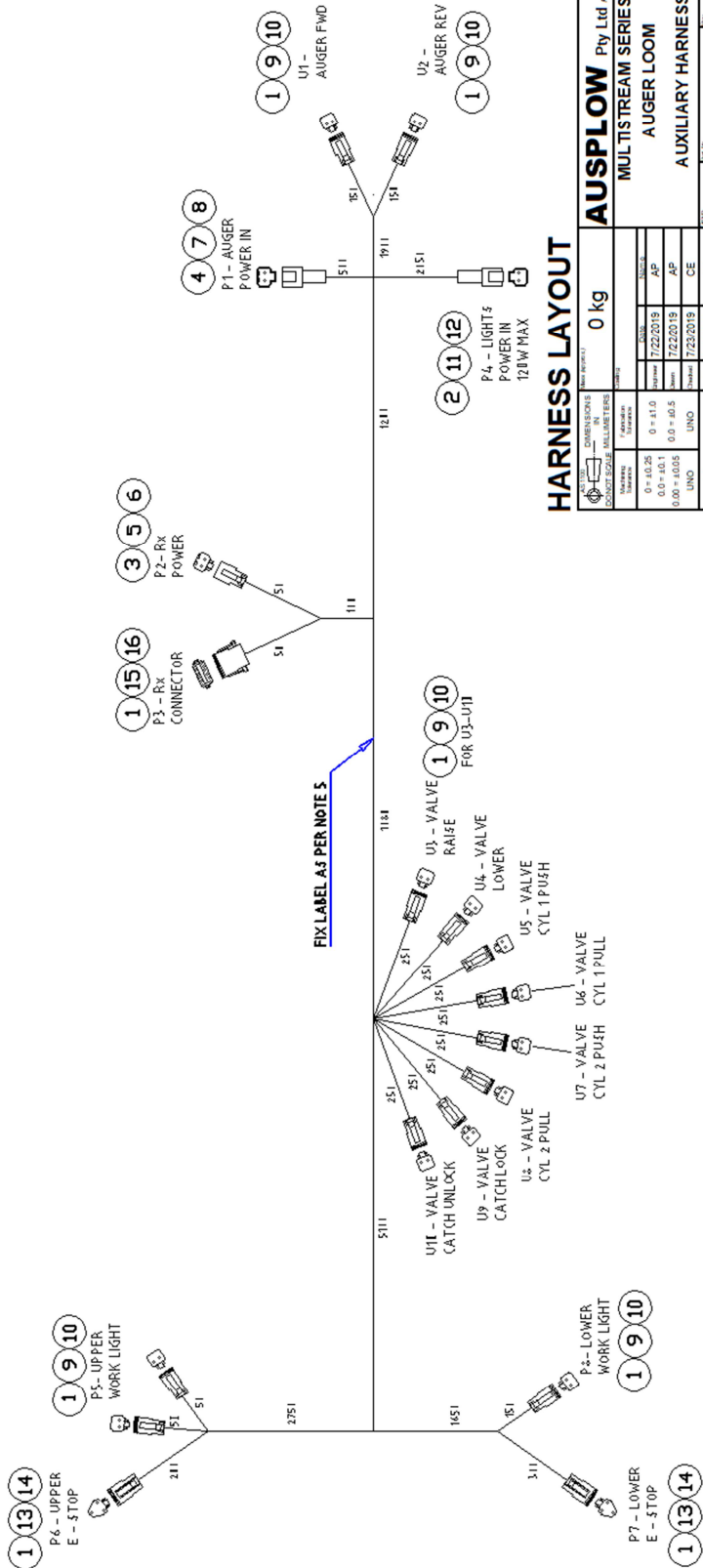
3 WAY PLUGS: A SIGNAL, B GROUND, C POWER.
4 WAY PLUGS: A FLOW SIGNAL, B GROUND, C POWER, D PRESSURE SIGNAL.



RELEASED

ITEM	QTY	AUSPLOW P No.	MFG / PN	MFG	DESCRIPTION
1	44	5820	S16-GN	DEUTSCH	CONTACT, DT, 16-18 AWG SKT (OR EQUIVALENT)
2	2	5819	P16-GN	DEUTSCH	CONTACT, DT, 16-18 AWG PIN (OR EQUIVALENT)
3	2	5826	S12	DEUTSCH	CONTACT, DTP, 12 AWG SKT (OR EQUIVALENT)
4	2	15749	P12	DEUTSCH	CONTACT, DTP, 12 AWG PIN (OR EQUIVALENT)
5	1	9785	DTP06-2S	DEUTSCH	CONNECTOR, DTP, 2 CONT, PLUG, USES SKT
6	1	9788	WP2S	DEUTSCH	WEDGELOCK, DTP, 2 CONT, PLUG
7	1	9786	DTP04-2P	DEUTSCH	CONNECTOR, DTP, 2 CONT, RECEPTICLE, USES PINS
8	1	9789	WP2P	DEUTSCH	WEDGELOCK, DTP, 2 CONT, RECEPTICLE
9	12	9773	DT06-2S	DEUTSCH	CONNECTOR, DT, 2 CONT, PLUG, USES SKT
10	12	9774	W2S	DEUTSCH	WEDGELOCK, DT, 2 CONT, PLUG
11	1	9779	DT04-2P	DEUTSCH	CONNECTOR, DT, 2 CONT, RECEPTICLE, USES PINS
12	1	9780	W2P	DEUTSCH	WEDGELOCK, DT, 2 CONT, RECEPTICLE
13	2	9775	DT06-3S	DEUTSCH	CONNECTOR, DT, 3 CONT, PLUG, USES SKT
14	2	9781	W3S	DEUTSCH	WEDGELOCK, DT, 3 CONT, PLUG
15	2	9650	DT06-12S	DEUTSCH	CONNECTOR, DT, 12 CONT, PLUG, USES SKT
16	1	9652	W12S	DEUTSCH	WEDGELOCK, DT, 12 CONT, PLUG
17	2	9797	SP20	DEUTSCH	SEALING PLUG NO. 20 TERMINAL

- NOTES:
1. APPLY LABELS WITH TEXT AS SHOWN APPROX 25-75 mm FROM CONNECTOR.
 2. USE APPROPRIATELY SIZED BLACK NYLON BRAIDED SLEEVING WITH RED TRACE FOR WHOLE LOOM.
 3. SLEEVING TO BE APPLIED UP TO 25mm FROM EACH CONNECTOR.
 4. SECURE END OF SLEEVING WITH GLUE LINED HEAT SHRINK TUBING.
 5. FIX LABEL "AUSPLOW AUGER LOOM - 1113754 Rev 1" IN POSITION.
 6. SFLIKE BLOCK PERMITTED.



HARNES LAYOUT

AUSPLOW Pty Ltd Rev 10 24/7 2017	
MULTI-STREAM SERIES II	
AUGER LOOM	
AUXILIARY HARNESS	
0 1/2	
BM-08 0032748 0	
GA	
1/2	

WIRING CHART				CONNECTOR CHART - REF			
WIRE ID #	CONN TERM	CONN	WIRE	CONNECTOR TERMINAL	ID #	COLOUR	DESCRIPTION
1A	P1-2	SPL-1	BLACK	P1-1	2A	RED	POWER
1B	SPL-1	P2-2	BLACK	P1-2	1A	BLACK	GROUND
1E	SPL-1	U1-2	BLACK	P2-1	2B	RED	POWER
1F	SPL-1	U2-2	BLACK	P2-2	1B	BLACK	GROUND
1H	SPL-1	U3-2	BLACK	P3-1	17A	RED / WHITE	SWITCHED POWER
1H	SPL-1	U4-2	BLACK	P3-2	3	BLUE	VALVE FORWARD
1J	SPL-1	U5-2	BLACK	P3-3	4	BROWN	VALVE REVERSE
1K	SPL-1	U6-2	BLACK	P3-4	5	DARK BLUE	VALVE RAISE
1L	SPL-1	U7-2	BLACK	P3-5	6	DARK GREEN	VALVE LOWER
1M	SPL-1	U8-2	BLACK	P3-6	7	GREY	VALVE CYL 1 - PUSH
1N	SPL-1	U9-2	BLACK	P3-7	8	LIGHT BLUE	VALVE CYL 1 - PULL
1P	SPL-1	U10-2	BLACK	P3-8	9	ORANGE	VALVE CYL 2 - PUSH
2A	P1-1	SPL-2	RED	P3-9	10	PINK	VALVE CYL 2 - PULL
2B	SPL-2	P2-1	RED	P3-10	11	PURPLE	VALVE LOCK
2C	SPL-2	P7-C	RED	P3-11	12	LIGHT GREEN	VALVE UNLOCK
3	P3-2	U1-1	BLUE	P3-12	13	YELLOW	E-STOP INPUT
4	P3-3	U2-1	BROWN	P4-1	14A	RED/WHITE	LIGHT POWER
5	P3-4	U3-1	DARK BLUE	P4-2	15A	BLACK/WHITE	LIGHT GROUND
6	P3-5	U4-1	DARK GREEN	P5-1	14B	RED/WHITE	LIGHT POWER
7	P3-6	U5-1	GREY	P5-2	15B	BLACK/WHITE	LIGHT GROUND
8	P3-7	U6-1	LIGHT BLUE	P6-A	-	-	SEALING PLUG
9	P3-8	U7-1	ORANGE	P6-B	13	YELLOW	E-STOP INPUT
10	P3-9	U8-1	PINK	P6-C	16	WHITE	E-STOP LOOP
11	P3-10	U9-1	PURPLE	P7-A	-	-	SEALING PLUG
12	P3-11	U10-1	LIGHT GREEN	P7-B	16	WHITE	E-STOP LOOP
13	P3-12	P6-B	YELLOW	P7-C	2C	RED	POWER
14A	SPL-3	P5-1	PINK / WHITE	P8-1	14C	RED/WHITE	LIGHT POWER
14B	SPL-3	P5-1	PINK / WHITE	P8-2	15C	BLACK/WHITE	LIGHT GROUND
14C	SPL-3	P8-1	PINK / WHITE	U1-1	3	BLUE	VALVE FORWARD
15A	P4-2	SPL-4	BLACK/WHITE	U1-2	1E	BLACK	GROUND
15B	SPL-4	P5-2	BLACK/WHITE	U2-1	4	BROWN	VALVE REVERSE
15C	SPL-4	P8-2	BLACK/WHITE	U2-2	1F	BLACK	GROUND
16	P7-B	P6-C	WHITE	U3-1	5	DARK BLUE	VALVE RAISE
17A	P3-1	SPL-5	RED / WHITE	U3-2	1G	BLACK	GROUND

COLOUR NOTE: PRIMARY COLOUR / TRACER COLOUR

WIRING CHART AND CONNECTOR CHART

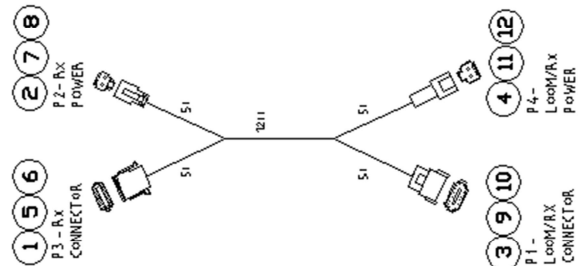
CONNECTOR CHART - REF			
CONNECTOR TERMINAL	ID #	COLOUR	DESCRIPTION
U4-1	6	DARK GREEN	VALVE LOWER
U4-2	1H	BLACK	GROUND
U5-1	7	GREY	VALVE CYL 1 - PUSH
U5-2	1J	BLACK	GROUND
U6-1	8	LIGHT BLUE	VALVE CYL 1 - PULL
U6-2	1K	BLACK	GROUND
U7-1	9	ORANGE	VALVE CYL 2 - PUSH
U7-2	1L	BLACK	GROUND
U8-1	3H10	PINK	VALVE CYL 2 - PULL
U8-2	1M	BLACK	GROUND
U9-1	11	PURPLE	VALVE LOCK
U9-2	1N	BLACK	GROUND
U10-1	1P	LIGHT GREEN	VALVE UNLOCK
U10-2	1N	BLACK	GROUND

CONNECTOR TERMINAL	ID #	COLOUR	DESCRIPTION	WIRE SIZE
P1-1	2A	RED	POWER	12
P1-2	1A	BLACK	GROUND	12
P2-1	2B	RED	POWER	12
P2-2	1B	BLACK	GROUND	12
P3-1	17A	RED / WHITE	SWITCHED POWER	18
P3-2	3	BLUE	VALVE FORWARD	16
P3-3	4	BROWN	VALVE REVERSE	16
P3-4	5	DARK BLUE	VALVE RAISE	16
P3-5	6	DARK GREEN	VALVE LOWER	16
P3-6	7	GREY	VALVE CYL 1 - PUSH	16
P3-7	8	LIGHT BLUE	VALVE CYL 1 - PULL	16
P3-8	9	ORANGE	VALVE CYL 2 - PUSH	16
P3-9	10	PINK	VALVE CYL 2 - PULL	16
P3-10	11	PURPLE	VALVE LOCK	16
P3-11	12	LIGHT GREEN	VALVE UNLOCK	16
P3-12	13	YELLOW	E-STOP INPUT	16
P4-1	14A	RED/WHITE	LIGHT POWER	16
P4-2	15A	BLACK/WHITE	LIGHT GROUND	16
P5-1	14B	RED/WHITE	LIGHT POWER	16
P5-2	15B	BLACK/WHITE	LIGHT GROUND	16
P6-A	-	-	SEALING PLUG	-
P6-B	13	YELLOW	E-STOP INPUT	18
P6-C	16	WHITE	E-STOP LOOP	18
P7-A	-	-	SEALING PLUG	-
P7-B	16	WHITE	E-STOP LOOP	18
P7-C	2C	RED	POWER	18
P8-1	14C	RED/WHITE	LIGHT POWER	16
P8-2	15C	BLACK/WHITE	LIGHT GROUND	16
U1-1	3	BLUE	VALVE FORWARD	16
U1-2	1E	BLACK	GROUND	16
U2-1	4	BROWN	VALVE REVERSE	16
U2-2	1F	BLACK	GROUND	16
U3-1	5	DARK BLUE	VALVE RAISE	16
U3-2	1G	BLACK	GROUND	16

DIMENSIONS IN MILLIMETERS		0 kg		AUSPLOW Pty Ltd	
Overall Length	0 ± 1.0	Overall Width	0 ± 1.0	MULTISTREAM SERIES II	
Overall Height	0.0 ± 0.1	Overall Depth	0.0 ± 0.5	AUGER LOOM	
Overall Weight	0.00 ± 0.05	Overall Volume	0.00 ± 0.05	AUXILIARY HARNESS	
Overall Temperature	UNO	Overall Pressure	CE	BM-08	
Overall Time	7/23/2019	Overall Date	7/23/2019	0032748	
Overall Location	GA	Overall Status	GA	0	
Overall Version	2/2	Overall Revision	2/2	2/2	

ITEM	QTY	AUSFLOW P No.	MFG / P/N	MFG	DESCRIPTION
1	12	5800	S16-GN	DEUTSCH	CONTACT, DT, 16-38AWG SKT (OR EQUIVALENT)
2	2	5826	S12	DEUTSCH	CONTACT, DTP, 12 AWG SKT (OR EQUIVALENT)
3	12	5819	P16-GN	DEUTSCH	CONTACT, DT, 16-38AWG PIN (OR EQUIVALENT)
4	2	15749	P12	DEUTSCH	CONTACT, DTP, 12 AWG PIN (OR EQUIVALENT)
5	1	9850	DT06-12S	DEUTSCH	CONNECTOR, DT, 12 CONT, PLUG, USES SKT
6	1	9852	W12S	DEUTSCH	WEDGELOCK, DT, 12 CONT, PLUG
7	1	9785	DTP06-2S	DEUTSCH	CONNECTOR, DTP, 2 CONT, PLUG, USES SKT
8	1	9786	WP2S	DEUTSCH	WEDGELOCK, DTP, 2 CONT, PLUG
9	1	9851	DT06-12P	DEUTSCH	CONNECTOR, DT, 12 CONT, RECEPTICLE, USES PINS
10	1	9853	W12P	DEUTSCH	WEDGELOCK, DT, 12 CONT, RECEPTICLE
11	1	9786	DTP04-2P	DEUTSCH	CONNECTOR, DTP, 2 CONT, RECEPTICLE, USES PINS
12	1	9789	WP2P	DEUTSCH	WEDGELOCK, DTP, 2 CONT, RECEPTICLE

- NOTES:
1. APPLY LABELS WITH TEXT AS SHOWN APPROX 25-75 mm FROM CONNECTOR.
 2. USE APPROPRIATELY SIZED BLACK NYLON BRAIDED SLEEVING WITH RED TRAKE FOR WHOLE LOOM.
 3. SLEEVING TO BE APPLIED UP TO 35mm FROM EACH CONNECTOR.
 4. SECURE END OF SLEEVING WITH GLUE LINED HEAT SHRINK TUBING.
 5. FIX LABEL 'AUSFLOW AUGER EXTENSION HARNESS' - 1132757 rev 4 IN POSITION.
 6. 4PLICE LOCK PERMITTED.



HARNESS LAYOUT

0 kg		AUSFLOW Pty Ltd (Pty 08 9417 8897)	
MULTISTREAM SERIES II AUGER LOOM EXTENSION HARNESS		BM-08 0032750 0 1/2	
0 ± ±0.25 0.0 ± ±0.1 0.00 ± ±0.06 UNDO	0 ± ±1.0 0.0 ± ±0.5 UNDO	7/22/2019 7/22/2019 7/23/2019 7/23/2019	AP AP CE G/A

WIRING CHART				CONNECTOR CHART - REF			
WIRE ID #	CONN TERM	CONN TERM	WIRE COLOUR	WIRE SIZE	DESCRIPTION	WIRE SIZE	DESCRIPTION
1	P2-1	P4-1	RED	12	POWER	18	SWITCHED POWER
2	P2-2	P4-2	BLACK	12	GROUND	16	VALVE 'FORWARD'
3	P1-1	P3-1	RED / WHITE	18	SWITCHED POWER	16	VALVE 'REVERSE'
4	P1-2	P3-2	BLUE	16	VALVE 'FORWARD'	16	VALVE 'RAISE'
5	P1-3	P3-3	BROWN	16	VALVE 'REVERSE'	16	VALVE 'LOWER'
6	P1-4	P3-4	DARK BLUE	16	VALVE 'RAISE'	16	VALVE 'CYL 1 - PUSH'
7	P1-5	P3-5	DARK GREEN	16	VALVE 'REVERSE'	16	VALVE 'CYL 1 - PULL'
8	P1-6	P3-6	GREY	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PUSH'
9	P1-7	P3-7	LIGHT BLUE	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PULL'
10	P1-8	P3-8	ORANGE	16	VALVE 'CYL 2 - PUSH'	16	VALVE 'LOCK'
11	P1-9	P3-9	PINK	16	VALVE 'CYL 2 - PULL'	16	VALVE 'UNLOCK'
12	P1-10	P3-10	PURPLE	16	VALVE 'LOCK'	16	E-STOP INPUT
13	P1-11	P3-11	LIGHT GREEN	16	VALVE 'UNLOCK'	12	POWER
14	P1-12	P3-12	YELLOW	18	E-STOP INPUT	12	GROUND
COLOUR NOTE: PRIMARY COLOUR / TRACER COLOUR				P2-1	1	RED	12
				P2-2	2	BLACK	12
				P3-1	3	RED / WHITE	18
				P3-2	4	BLUE	16
				P3-3	5	BROWN	16
				P3-4	6	DARK BLUE	16
				P3-5	7	DARK GREEN	16
				P3-6	8	GREY	16
				P3-7	9	LIGHT BLUE	16
				P3-8	10	ORANGE	16
				P3-9	11	PINK	16
				P3-10	12	PURPLE	16
				P3-11	13	LIGHT GREEN	16
				P3-12	14	YELLOW	16
				P4-1	1	RED	12
				P4-2	2	BLACK	12

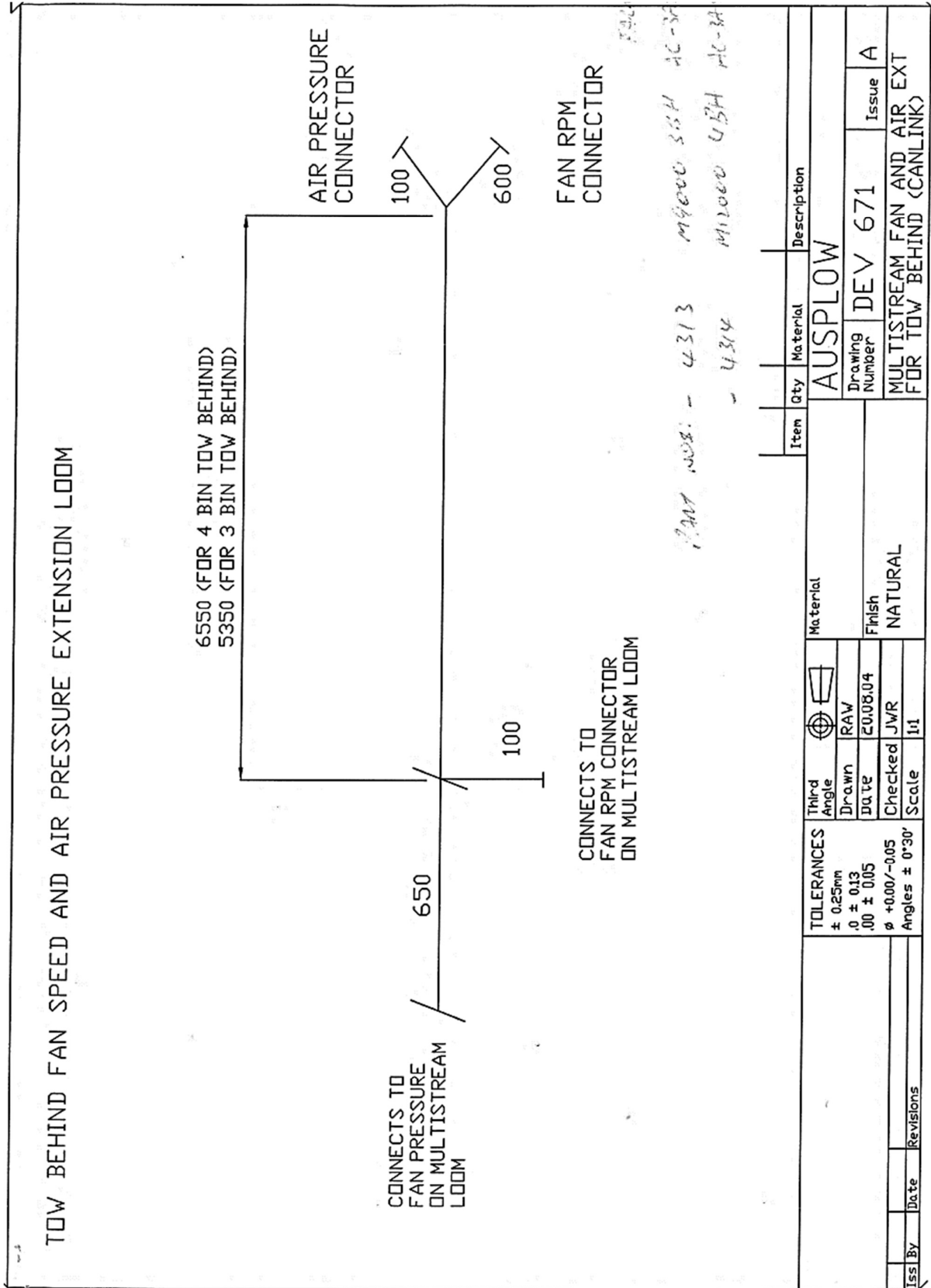
WIRING CHART				CONNECTOR CHART - REF			
WIRE ID #	CONN TERM	CONN TERM	WIRE COLOUR	WIRE SIZE	DESCRIPTION	WIRE SIZE	DESCRIPTION
1	P2-1	P4-1	RED	12	POWER	18	SWITCHED POWER
2	P2-2	P4-2	BLACK	12	GROUND	16	VALVE 'FORWARD'
3	P1-1	P3-1	RED / WHITE	18	SWITCHED POWER	16	VALVE 'REVERSE'
4	P1-2	P3-2	BLUE	16	VALVE 'FORWARD'	16	VALVE 'RAISE'
5	P1-3	P3-3	BROWN	16	VALVE 'REVERSE'	16	VALVE 'LOWER'
6	P1-4	P3-4	DARK BLUE	16	VALVE 'RAISE'	16	VALVE 'CYL 1 - PUSH'
7	P1-5	P3-5	DARK GREEN	16	VALVE 'REVERSE'	16	VALVE 'CYL 1 - PULL'
8	P1-6	P3-6	GREY	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PUSH'
9	P1-7	P3-7	LIGHT BLUE	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PULL'
10	P1-8	P3-8	ORANGE	16	VALVE 'CYL 2 - PUSH'	16	VALVE 'LOCK'
11	P1-9	P3-9	PINK	16	VALVE 'CYL 2 - PULL'	16	VALVE 'UNLOCK'
12	P1-10	P3-10	PURPLE	16	VALVE 'LOCK'	16	E-STOP INPUT
13	P1-11	P3-11	LIGHT GREEN	16	VALVE 'UNLOCK'	12	POWER
14	P1-12	P3-12	YELLOW	18	E-STOP INPUT	12	GROUND
COLOUR NOTE: PRIMARY COLOUR / TRACER COLOUR				P2-1	1	RED	12
				P2-2	2	BLACK	12
				P3-1	3	RED / WHITE	18
				P3-2	4	BLUE	16
				P3-3	5	BROWN	16
				P3-4	6	DARK BLUE	16
				P3-5	7	DARK GREEN	16
				P3-6	8	GREY	16
				P3-7	9	LIGHT BLUE	16
				P3-8	10	ORANGE	16
				P3-9	11	PINK	16
				P3-10	12	PURPLE	16
				P3-11	13	LIGHT GREEN	16
				P3-12	14	YELLOW	16
				P4-1	1	RED	12
				P4-2	2	BLACK	12

WIRING CHART				CONNECTOR CHART - REF			
WIRE ID #	CONN TERM	CONN TERM	WIRE COLOUR	WIRE SIZE	DESCRIPTION	WIRE SIZE	DESCRIPTION
1	P2-1	P4-1	RED	12	POWER	18	SWITCHED POWER
2	P2-2	P4-2	BLACK	12	GROUND	16	VALVE 'FORWARD'
3	P1-1	P3-1	RED / WHITE	18	SWITCHED POWER	16	VALVE 'REVERSE'
4	P1-2	P3-2	BLUE	16	VALVE 'FORWARD'	16	VALVE 'RAISE'
5	P1-3	P3-3	BROWN	16	VALVE 'REVERSE'	16	VALVE 'LOWER'
6	P1-4	P3-4	DARK BLUE	16	VALVE 'RAISE'	16	VALVE 'CYL 1 - PUSH'
7	P1-5	P3-5	DARK GREEN	16	VALVE 'REVERSE'	16	VALVE 'CYL 1 - PULL'
8	P1-6	P3-6	GREY	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PUSH'
9	P1-7	P3-7	LIGHT BLUE	16	VALVE 'CYL 1 - PULL'	16	VALVE 'CYL 2 - PULL'
10	P1-8	P3-8	ORANGE	16	VALVE 'CYL 2 - PUSH'	16	VALVE 'LOCK'
11	P1-9	P3-9	PINK	16	VALVE 'CYL 2 - PULL'	16	VALVE 'UNLOCK'
12	P1-10	P3-10	PURPLE	16	VALVE 'LOCK'	16	E-STOP INPUT
13	P1-11	P3-11	LIGHT GREEN	16	VALVE 'UNLOCK'	12	POWER
14	P1-12	P3-12	YELLOW	18	E-STOP INPUT	12	GROUND
COLOUR NOTE: PRIMARY COLOUR / TRACER COLOUR				P2-1	1	RED	12
				P2-2	2	BLACK	12
				P3-1	3	RED / WHITE	18
				P3-2	4	BLUE	16
				P3-3	5	BROWN	16
				P3-4	6	DARK BLUE	16
				P3-5	7	DARK GREEN	16
				P3-6	8	GREY	16
				P3-7	9	LIGHT BLUE	16
				P3-8	10	ORANGE	16
				P3-9	11	PINK	16
				P3-10	12	PURPLE	16
				P3-11	13	LIGHT GREEN	16
				P3-12	14	YELLOW	16
				P4-1	1	RED	12
				P4-2	2	BLACK	12

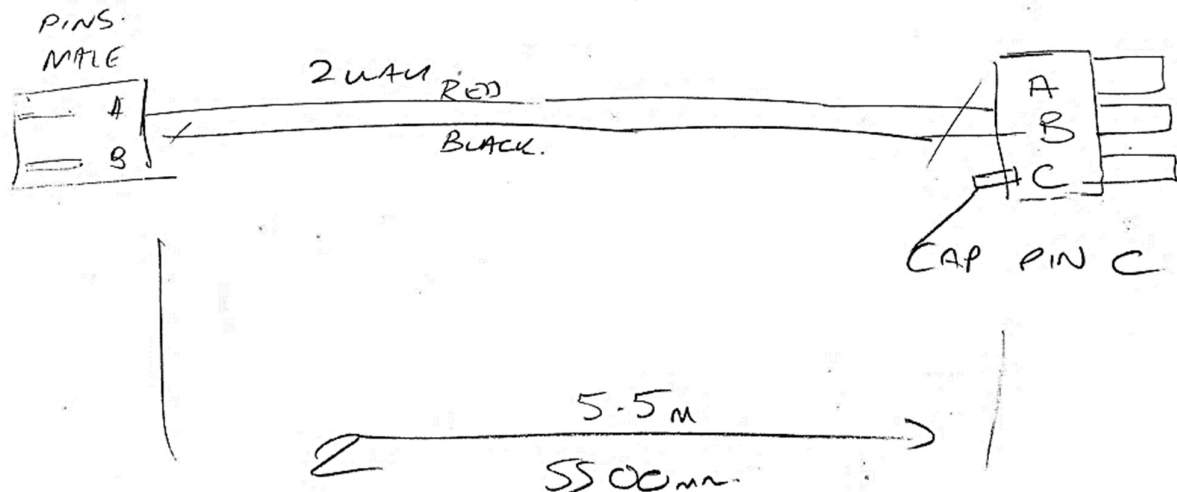
WIRING CHART AND CONNECTOR CHART

		DIMENSIONS IN MILLIMETRES		0 kg		AUSPLOW Pty Ltd (IN 28117877)		MULTISTREAM SERIES II		AUGER LOOM		EXTENSION HARNESS		BIM-08 0032750 0 2/2	
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0 kg															

2.1.6 MISCELLANEOUS



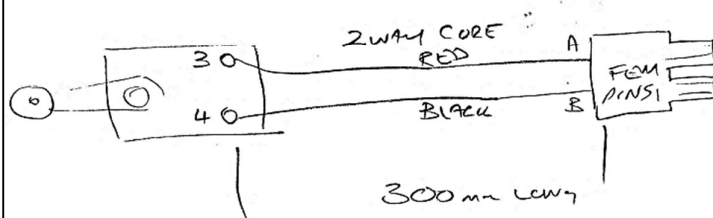
KEE - ZYNX DEPTH SWITCH LOCK MULTISTREAM



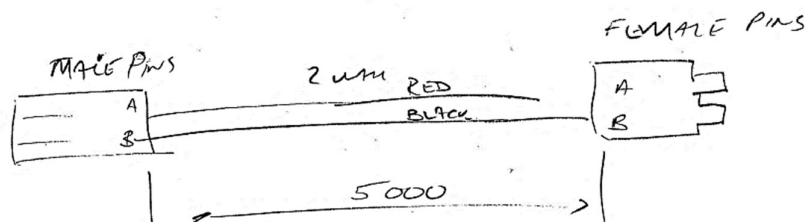
KEE (TBY) DEPTH SWITCH (CPU MASTER SWITCH)

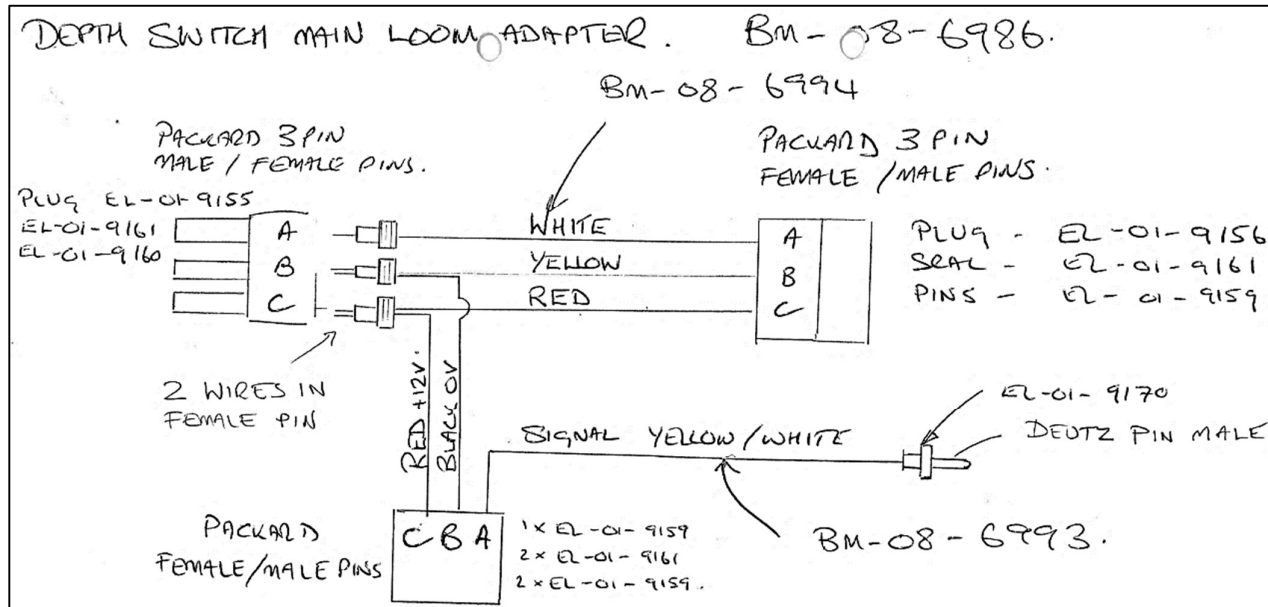
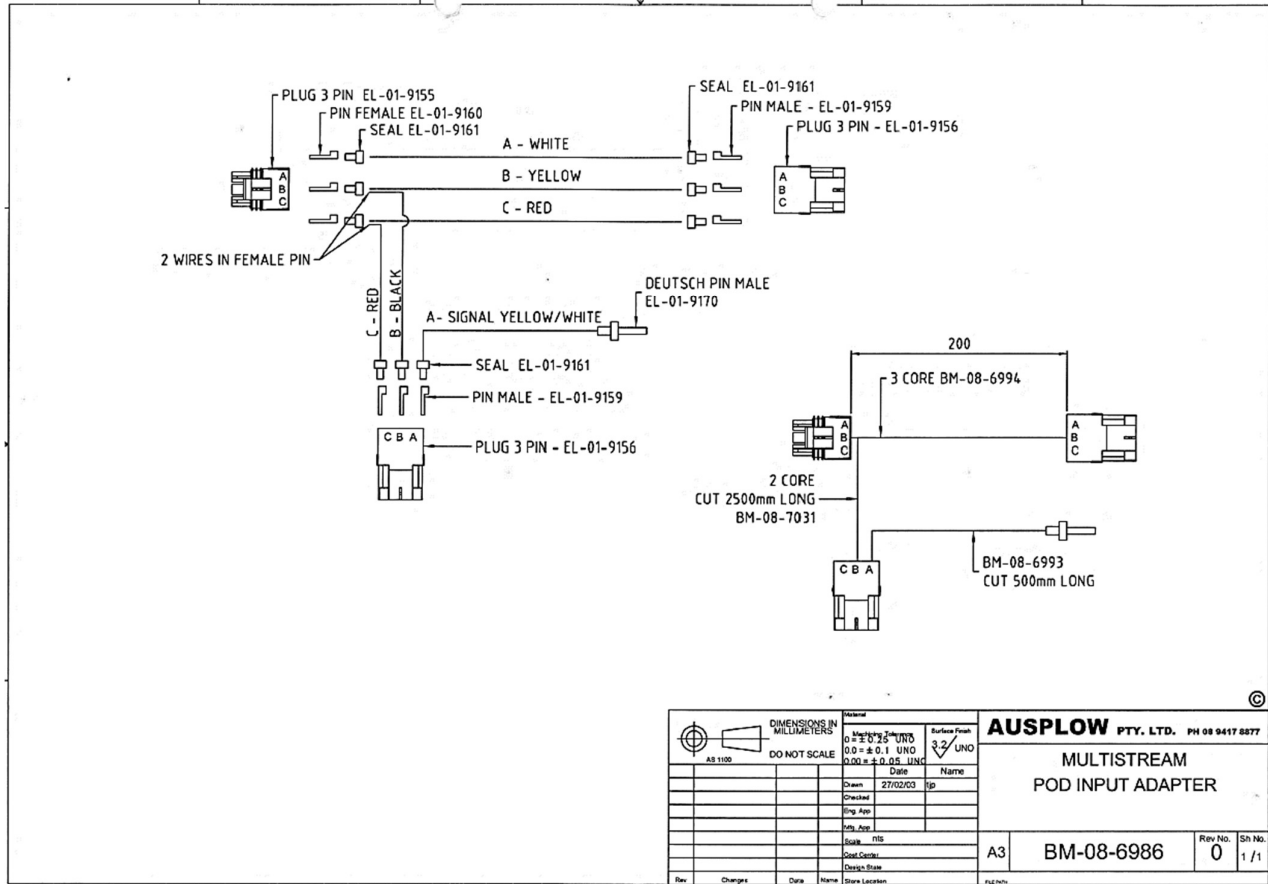
CLOSED CIRCUIT IS ON
OPEN CIRCUIT HOLD

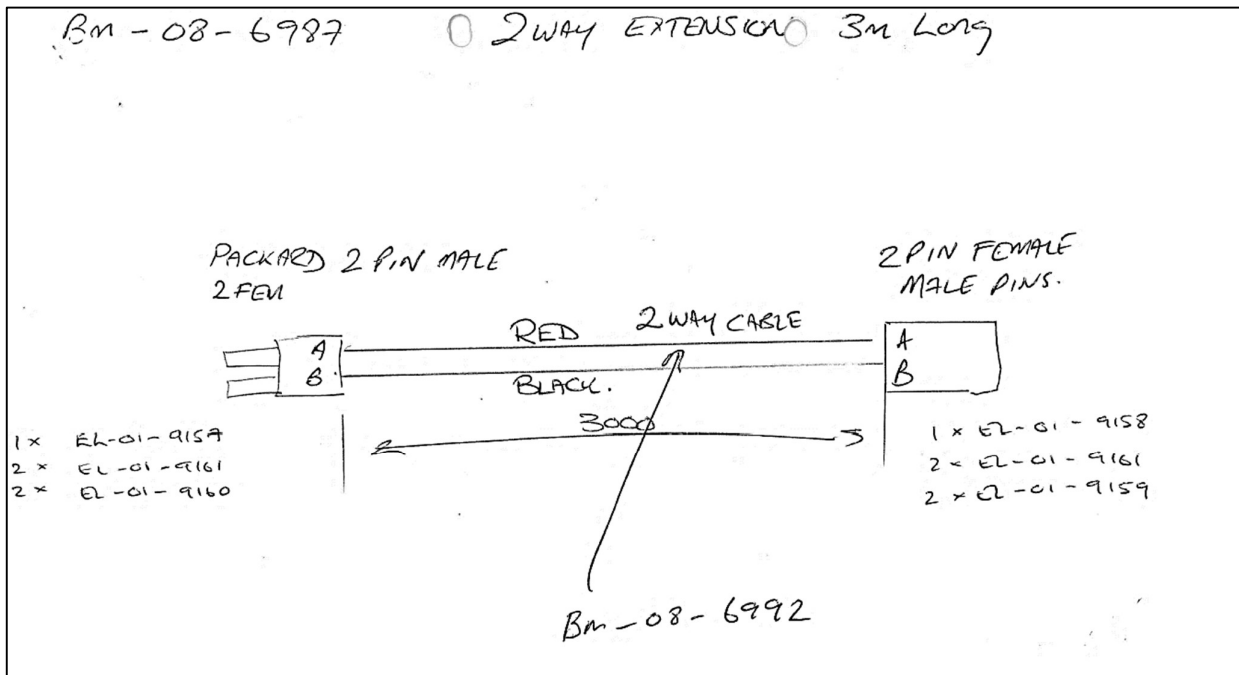
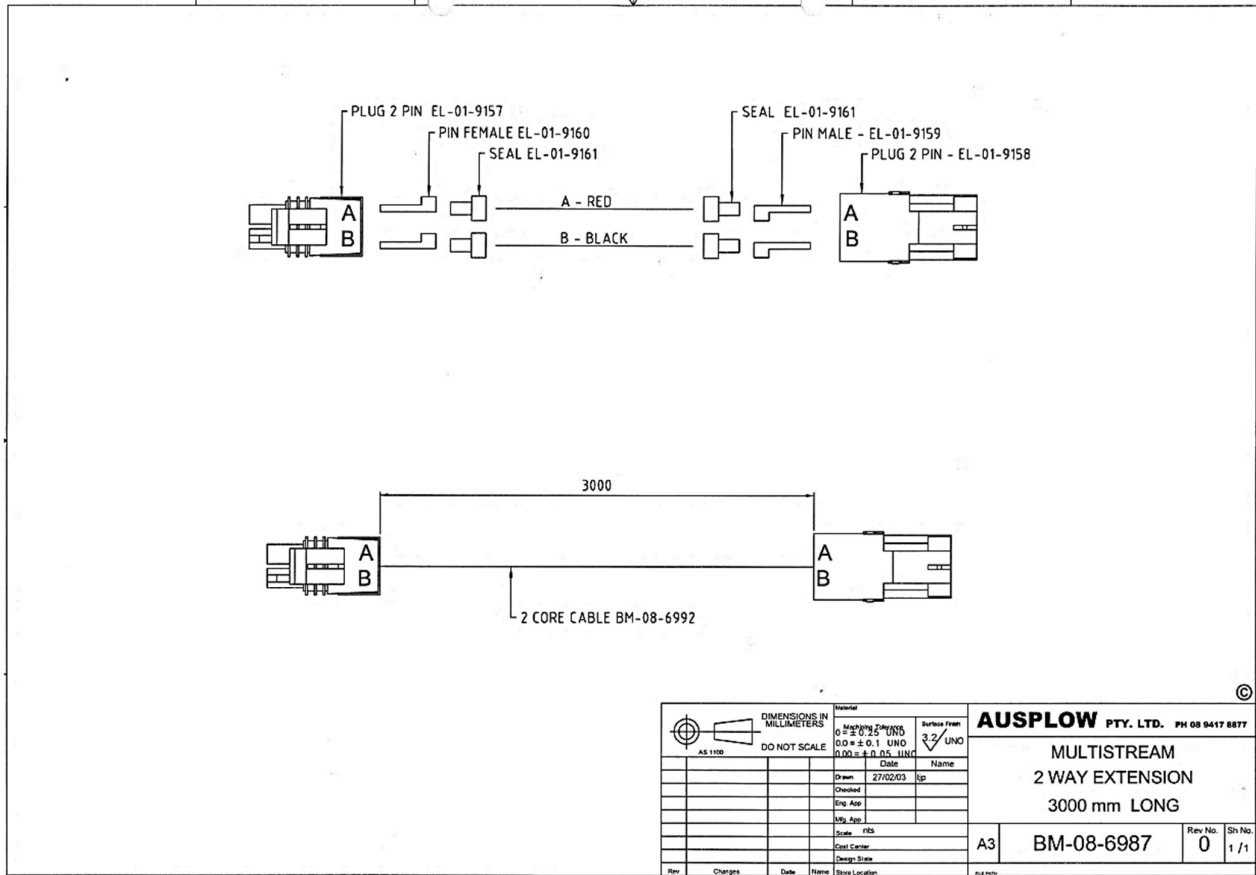
(KEE - ZYNX)

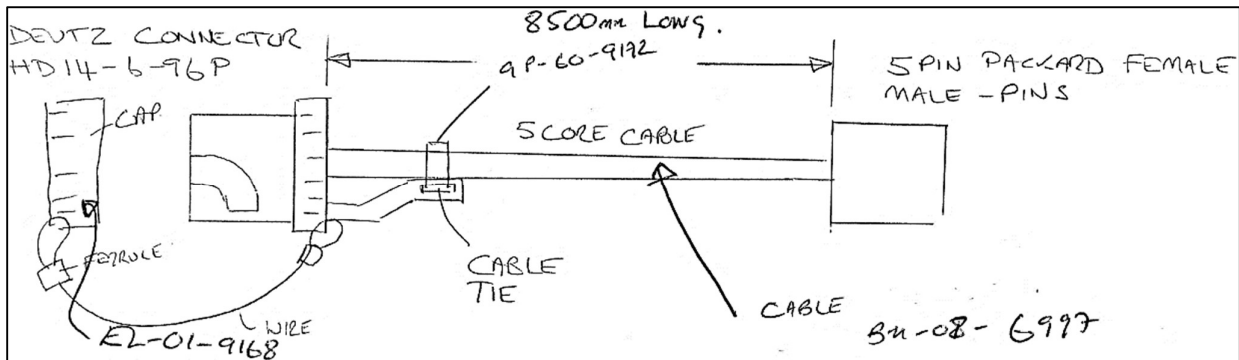
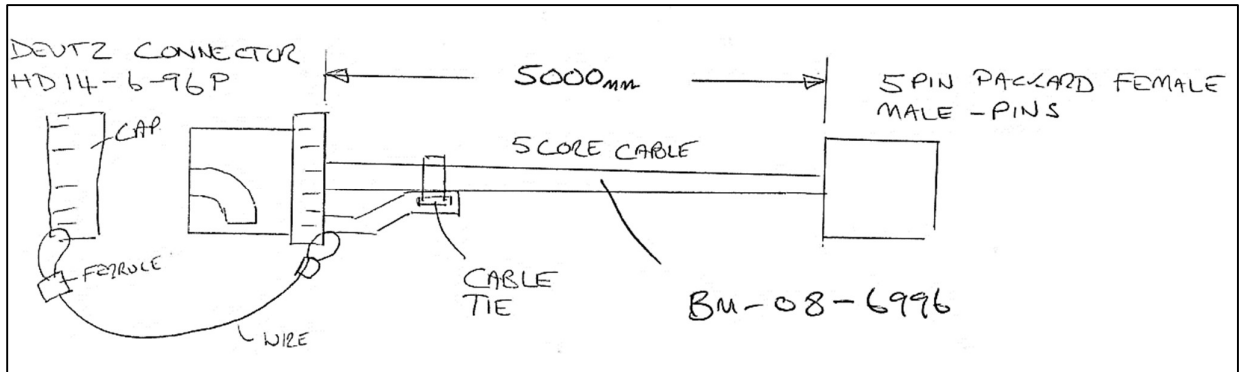
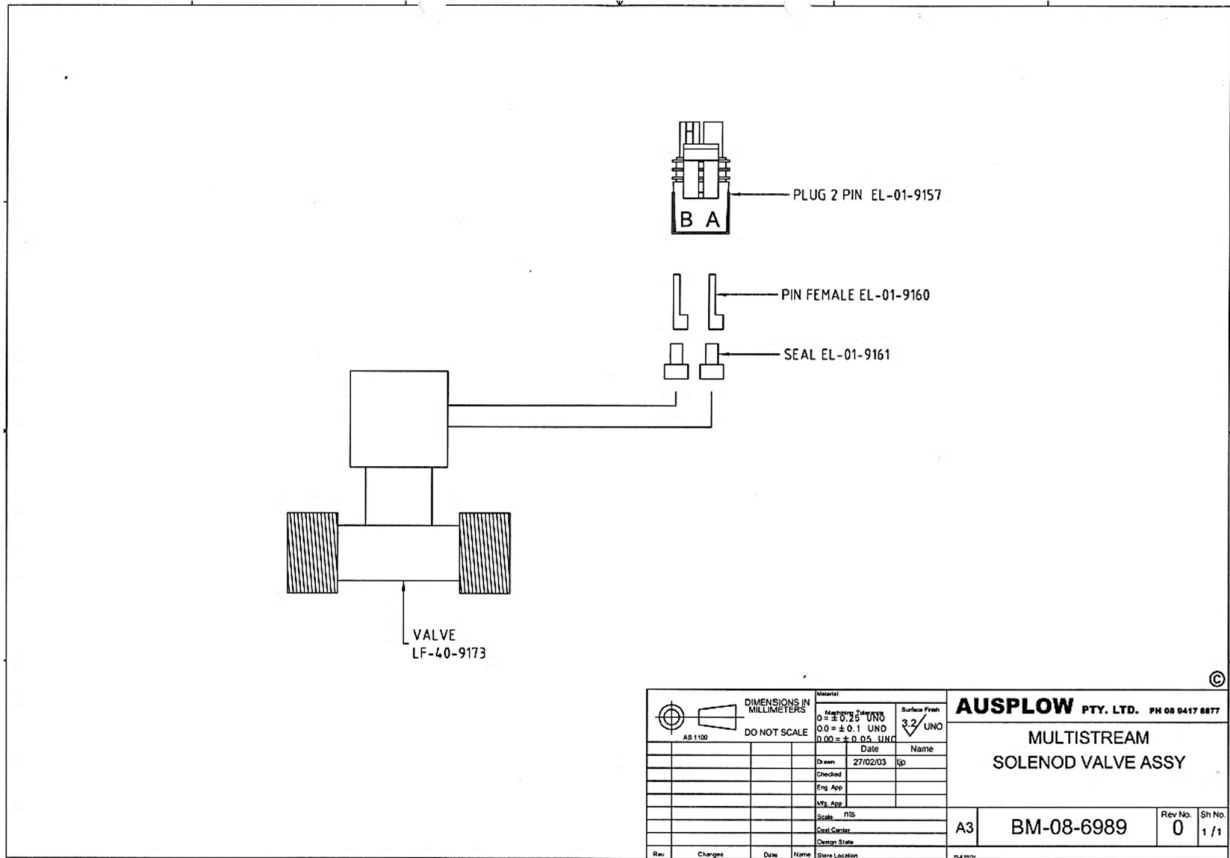


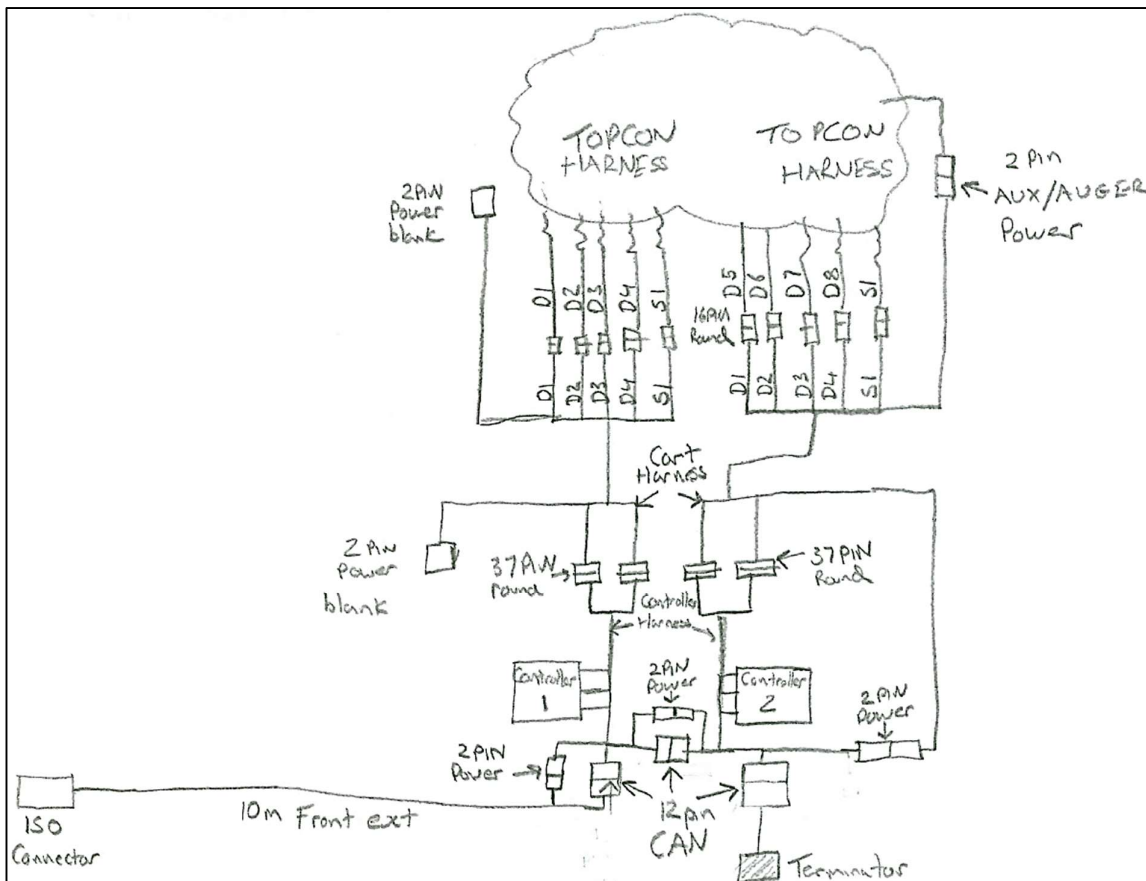
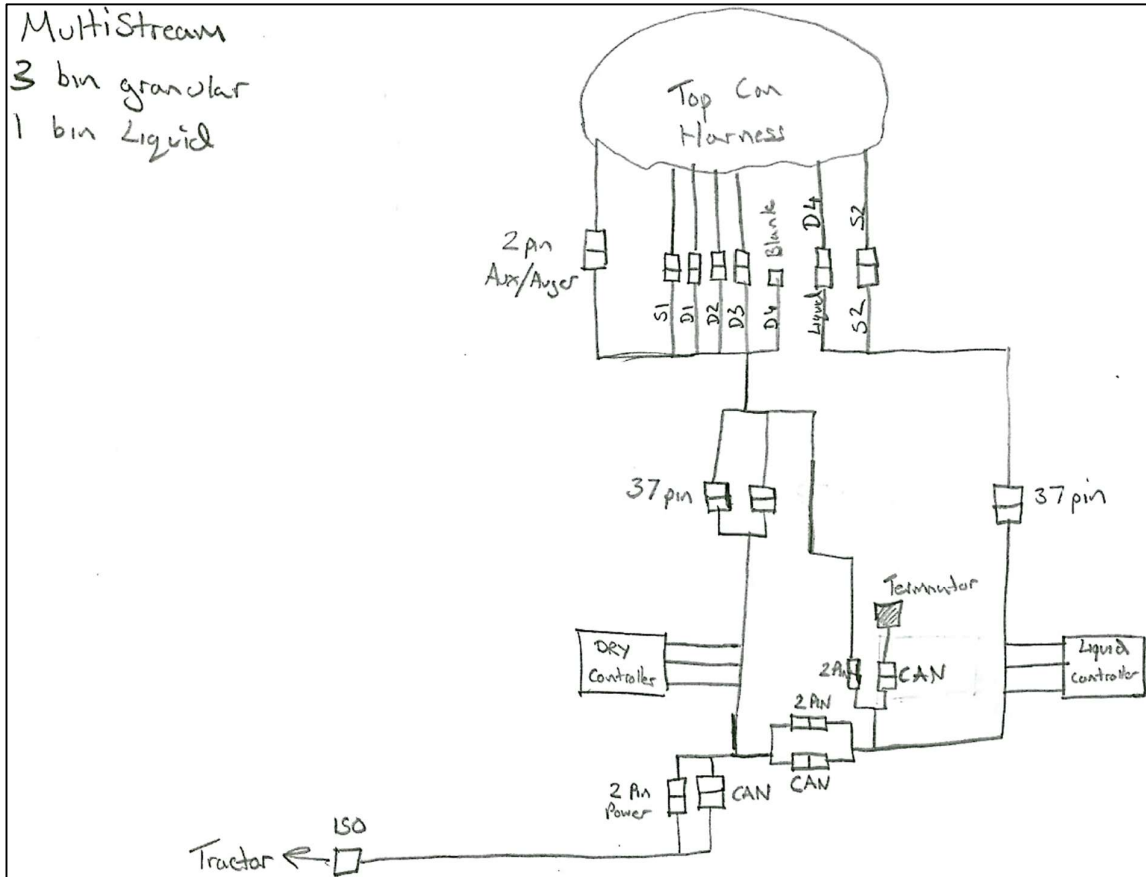
BAR DEPTH SWITCH









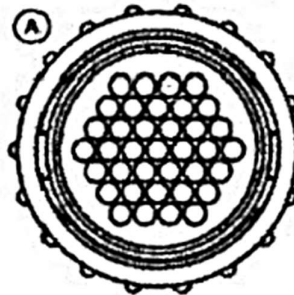
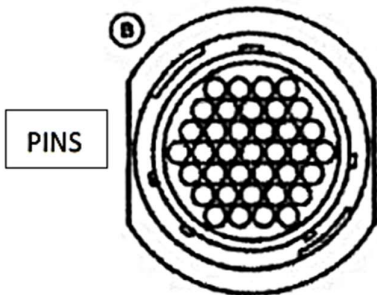


Ausflow

Supplemental Information

37-Pin Connectors

4 Bin



SOCKETS

A—Connector 1

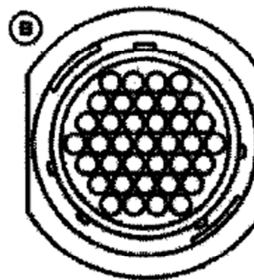
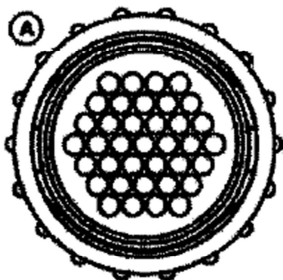
Connector 1			Connector 2		
PIN #	FUNCTION		PIN #	FUNCTION	
1	Valve Ground	black	1	Future Use	
2	Valve Ground	black	2	Meter #3 Speed Sensor Signal	black/white
3	Valve Power	red	3	Meter #4 Speed Sensor Signal	yellow/blue
4 - pump	Driver 1	green	4	Power - 5V Sensor	
5 + pump	Driver 2	green	5	Power - 5V Sensor	
6 + pump	Driver 3	yellow	6	Ground - 5V Sensor	
7 - pump	Driver 4	yellow	7	Ground - 5V Sensor	
8	Driver 5	black	8	Future Use	
9 - pump	Driver 6	blue	9	Future Use	
10 + pump	Driver 7	blue	10	Future Use	
11 + pump	Driver 8	white	11	Future Use	
12 - pump	Driver 9	white	12	Bin Level Switch #4 Signal	Purple
13 water clutch	Driver 10		13	Bin Level Switch #3 Signal	Pink
14	Future Use		14	Ground - 5V Sensor	
15	Driver 16		15	Bin Level Switch #2 Signal	grey
16	Driver 15		16	Future Use	
17 Tank clutch	Driver 14		17	Future Use	
18 Tank clutch	Driver 13		18	Future Use	
19 Tank clutch	Driver 12		19	Future Use	
20 Tank clutch	Driver 11		20	Future Use	
21	Ground - 5V Sensor		21	Ground - 12V Sensor	black
22	Power - 5V Sensor		22	Power - 12V Sensor	red
23	Meter #2 Speed Sensor Signal	green/white	23 wheel speed	Future Use	
24	Future Use		24	Ground - 5V Sensor	
25	Power - 5V Sensor		25 Fan 1	Spinner Speed Sensor Signal	red/black
26	ECU Power (12V)		26	Power - 12V Sensor	red
27	ECU Ground	black	27	Ground - 12V Sensor	black
28	Meter #1 Speed Sensor Signal	blue/white	28 Fan 2	Future Use Fan speed 2	
29	Ground - 5V Sensor		29	Bin Level Switch #1 Signal	Orange
30	Power - 5V Sensor		30	Future Use	
31 pressure	Future Use Pressure	brown	31	Future Use	
32	Future Use		32	Power - 5V Sensor	
33	Future Use		33	Power - 5V Sensor	
34	Power - 5V Sensor		34	Future Use	
35	Future Use		35	Future Use	
36	Valve Power	red	36	Future Use	
37	Valve Power	red	37	Future Use	

PCT19024-UN-13JUN01

Ausplow

Supplemental Information

37-Pin Connectors



A—Connector 1

B—Connector 2

Connector 1			Connector 2		
PIN #	FUNCTION		PIN #	FUNCTION	
1	Valve Ground	Black	1	Future Use	
2	Valve Ground	Black	2	Meter #3 Speed Sensor Signal	
3	Valve Power	Red	3	Meter #4 Speed Sensor Signal	
4	Driver 1	Green D1 10	4	Power - 5V Sensor	
5	Driver 2	Green D1 3	5	Power - 5V Sensor	
6	Driver 3	Yellow D2 10	6	Ground - 5V Sensor	
7	Driver 4	Yellow D2 3	7	Ground - 5V Sensor	
8	Driver 5		8	Future Use	
9	Driver 6	blue D3 10	9	Future Use	
10	Driver 7	blue D3 3	10	Future Use	
11	Driver 8	white D4 10	11	Future Use	
12	Driver 9	white D4 3	12	Bin Level Switch #4 Signal	
13	Driver 10		13	Bin Level Switch #3 Signal	
14	Future Use		14	Ground - 5V Sensor	
15	Driver 16		15	Bin Level Switch #2 Signal	
16	Driver 15		16	Future Use	
17	Driver 14		17	Future Use	
18	Driver 13		18	Future Use	
19	Driver 12		19	Future Use	
20	Driver 11		20	Future Use	
21	Ground - 5V Sensor		21	Ground - 12V Sensor	
22	Power - 5V Sensor		22	Power - 12V Sensor	
23	Meter #2 Speed Sensor Signal	green/white D2 15	23	Future Use	
24	Future Use		24	Ground - 5V Sensor	
25	Power - 5V Sensor		25	Spinner Speed Sensor Signal	
26	ECU Power (12V)		26	Power - 12V Sensor	
27	ECU Ground	Black	27	Ground - 12V Sensor	
28	Meter #1 Speed Sensor Signal	blue/white D1 15	28	Future Use	
29	Ground - 5V Sensor		29	Bin Level Switch #1 Signal	
30	Power - 5V Sensor		30	Future Use	
31	Future Use	Brown S1 15	31	Future Use	
32	Future Use		32	Power - 5V Sensor	
33	Future Use		33	Power - 5V Sensor	
34	Power - 5V Sensor		34	Future Use	
35	Future Use		35	Future Use	
36	Valve Power	Red	36	Future Use	
37	Valve Power	Red	37	Future Use	

CZ76372.0008318 -19-27JUN11-1/1

Ausplow Liquid Drive

Supplemental Information

Main Harness (37-Pin Connector) Table

PIN #	Drive	Sens 2	FUNCTION (Sprayers with 3-Wire Section Valves)
1	black	8	Valve Ground
2	black		Valve Ground
3	black		Valve Power
4			Driver 1
5			Driver 2
6			Driver 3
7			Driver 4
8			Driver 5
9			Driver 6
10			Driver 7
11			Driver 8
12			Driver 9
13			Driver 10
14			Disconnect Switch 4 (for use in planter applications only)
15	Green	3	Driver 16
16	Green	10	Driver 15
17			Driver 14
18			Driver 13
19			Driver 12
20			Driver 11
21			Flowmeter Shield
22			Future Use
23			Future Use
24			Disconnect Switch 3 (for use in planter applications only)
25			Flowmeter #1 5vdc
26			ECU Power (Only use for a Flowmeter/Pressure Sensor requiring a 12 V power supply)
27			ECU Ground
28	blue/white	15	Flowmeter #1 Signal
29			Pressure Sensor Ground
30			Pressure Sensor #1 5vdc
31	Yellow/blue	8	Pressure Sensor #1 Signal
32			Disconnect Switch 1 (for use in planter applications only)
33			Disconnect Switch 2 (for use in planter applications only)
34			Pressure Sensor #2 5vdc
35			Pressure Sensor #2 Signal
36	Red	7	Valve Power
37	Red	7	Valve Power

CZ76372,0000208 -19-29OCT10-1/1

Connector Information for Adapter Harness

Description	John Deere Part Number
37 Pin Connector Body (Female side)	57M9834
Cable Clamp for 37 Pin Connector Body	57M9870
Terminal Pin (14-18 gauge / 0.8 - 2.0 mm ²)	57M9439

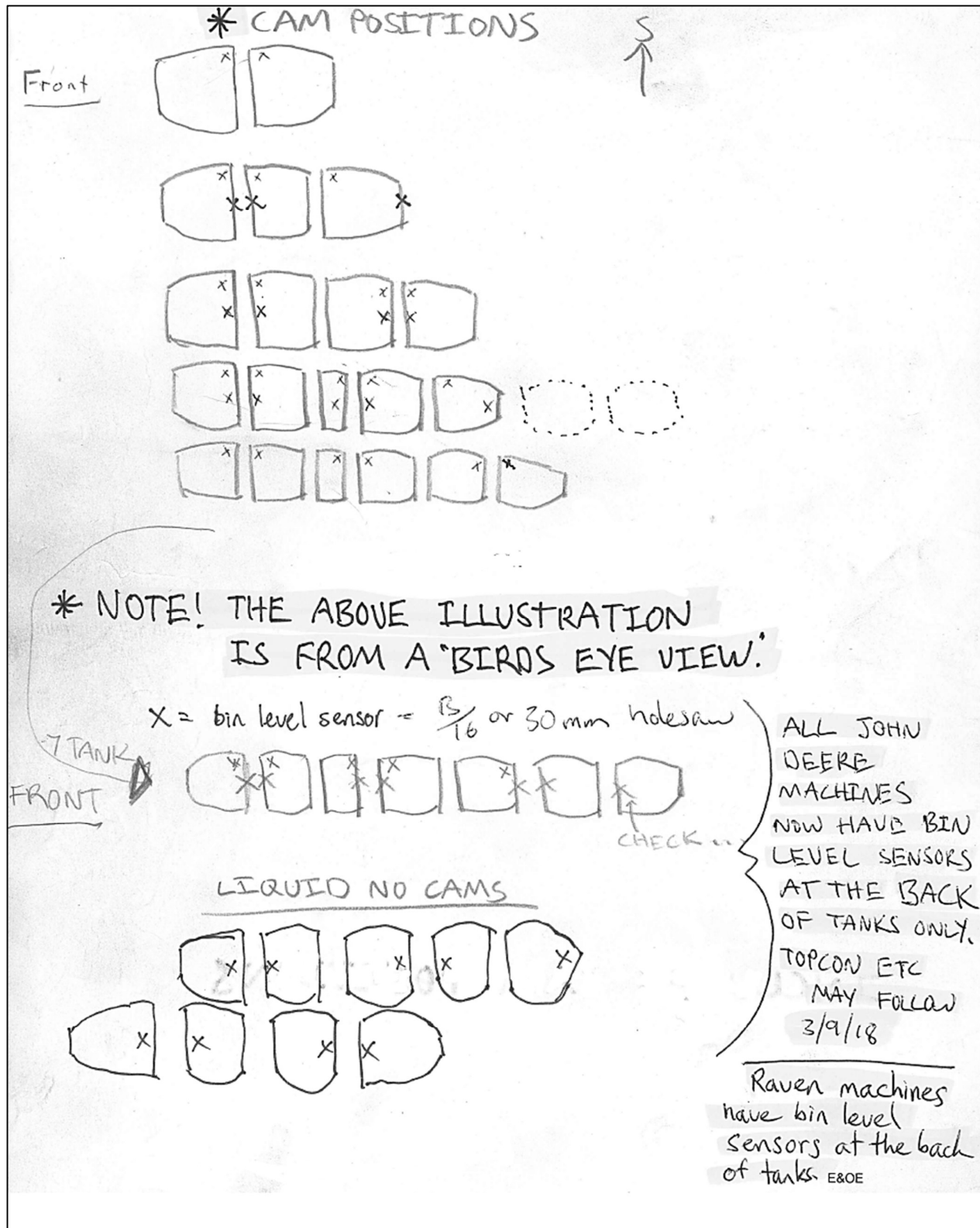
NOTE: Ensure proper crimp tools are used when assembling a harness.

JS56898,0000754 -19-29OCT09-1/1

Ausplow Technical Service Manual

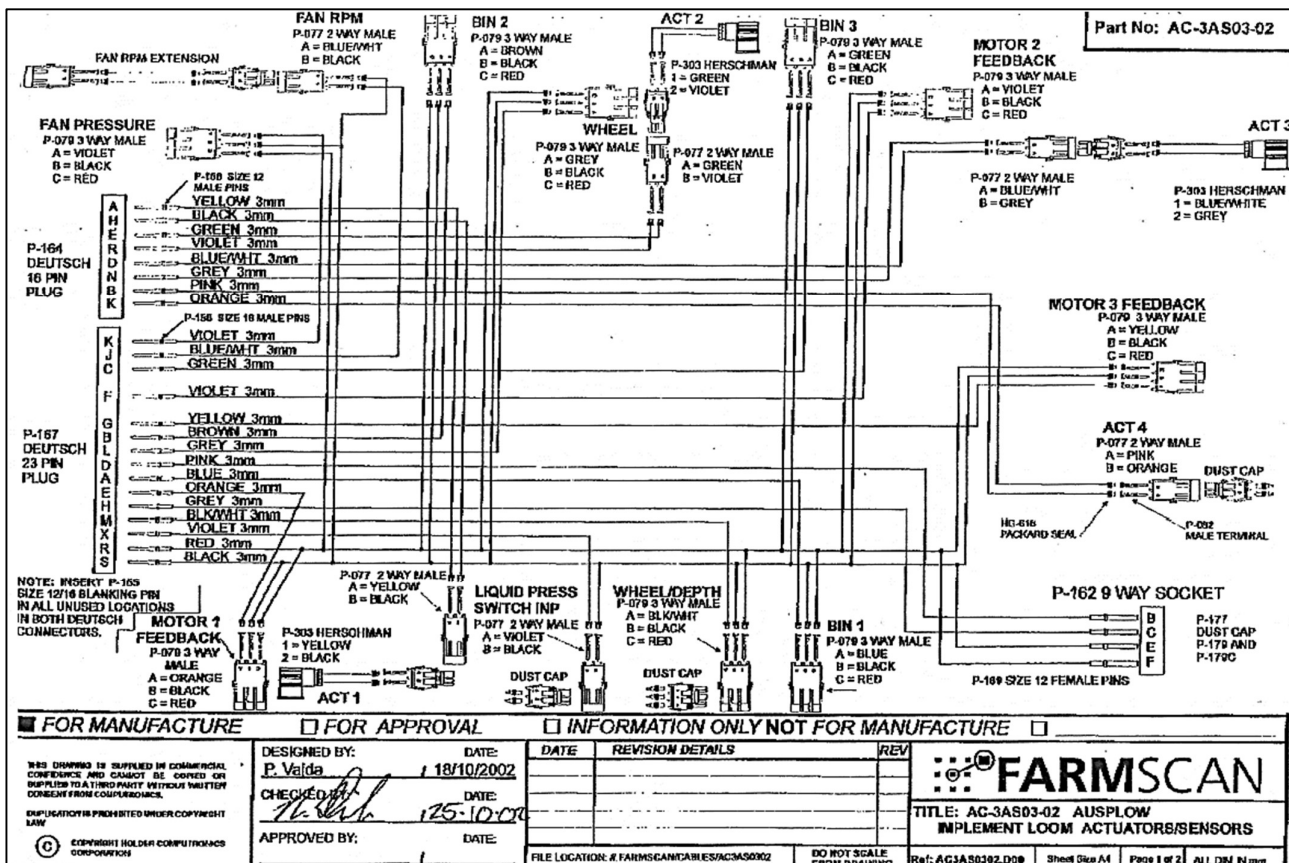
John Deere male connector	Function	Topcon plug	John DeereFemale Connector	Function	Topcon plug
Pin 1	Meter 1 feed back ground	Drive 1 pin 11	Pin 1		
Pin 2	Meter 3 feed back ground	Drive 3 pin 11	pin 2	Meter 3 feed back signal	Drive 3 pin 15
Pin 3	Meter 3 feed back power	Drive 3 pin 7	pin 3	Meter 4 feed back signal	Drive 4 pin 15
Pin 4	Driver 1 Green	Drive 1 pin 10	pin 4		
Pin 5	Driver 1 Green	Drive 1 pin 3	pin 5		
Pin 6	Driver 2 Yellow	Drive 2 pin 10	pin6		
Pin 7	Driver 2 Yellow	Drive 2 pin 3	Pin 7		
Pin 8			Pin 8		
Pin 9	Driver 3 Blue	Drive 3 pin 10	Pin 9		
Pin 10	Driver 3 Blue	Drive 3 pin 3	Pin 10		
Pin 11	Driver 4 White	Drive 4 pin 10	Pin 11		
Pin 12	Driver 4 White	Drive 4 pin 3	Pin 12	Bin level 4 signal	Sensor 1 Pin 2
Pin 21			Pin13	Bin level 3 signal	Sensor 1 pin 4
Pin 22			Pin 14		
Pin 23	Meter 2 feed back signal	Bin 2 pin 15	Pin 15	Bin level 2	Sensor 1 pin 6
Pin 26	Meter1 feed back power	Bin1 pin 7	Pin 21		
Pin 27	Meter2 feed back ground	Bin 2 pin 11	Pin 22	Meter 4 feed back power	Drive 4 pin 7
Pin 28	Meter 1 feed back signal	Bin 1 pin 15	Pin 25	fan rpm 1	sensor 1 pin 10
Pin 31	Fan pressure 1	Sensor 1 pin 15	Pin 26	Sensor 1 Power	Sensor 1 Pin 7
Pin 31	Fan pressure 2	Sensor 2 pin 4	Pin 27	Meter 4 feed back ground	Drive 4 pin 11
Pin 37	Meter 2 feed back power	Bin 2 pin 7	Pin 28	Fan RPM 2	Sensor 2 pin 10

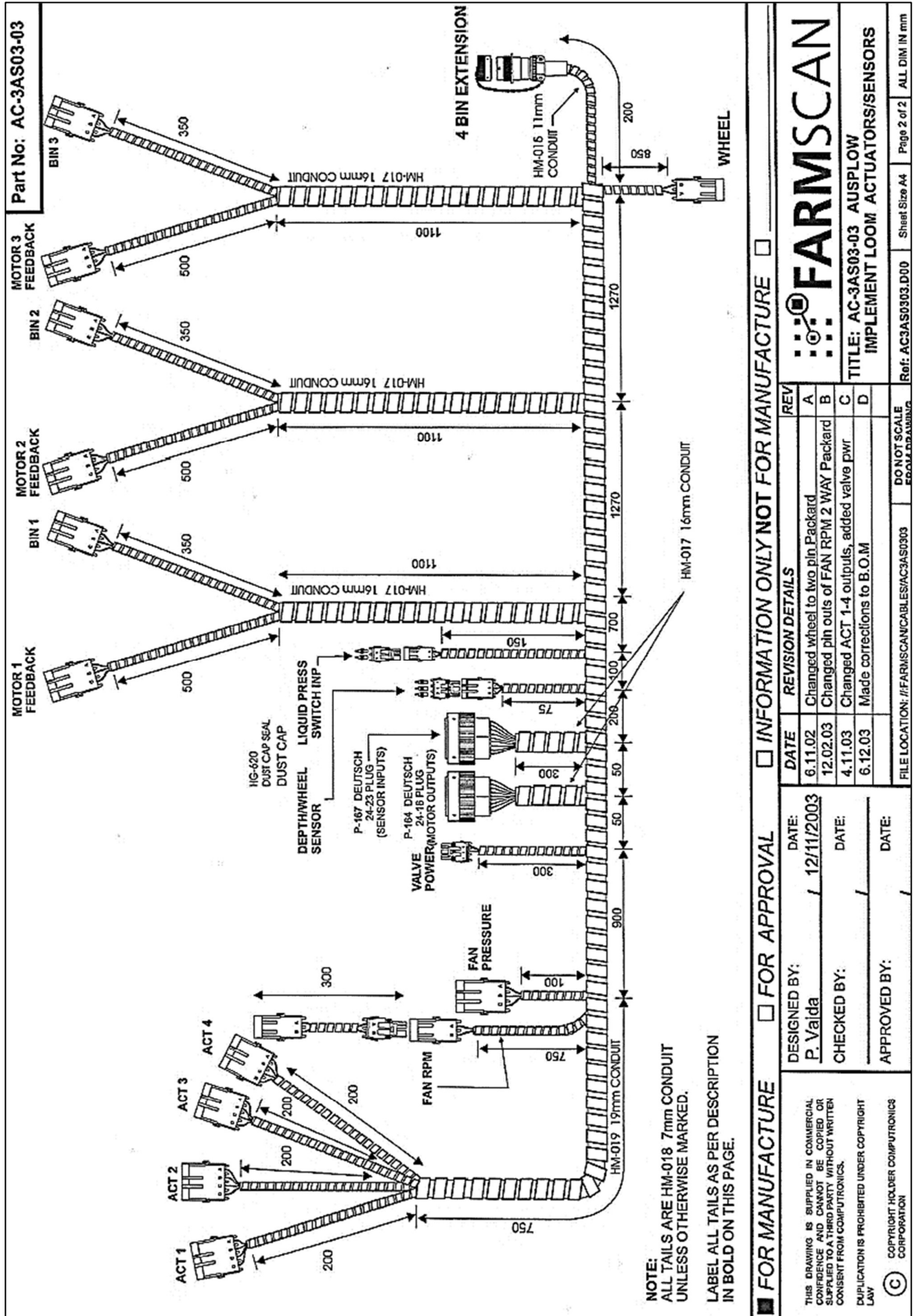
2.1.5 CAMERA

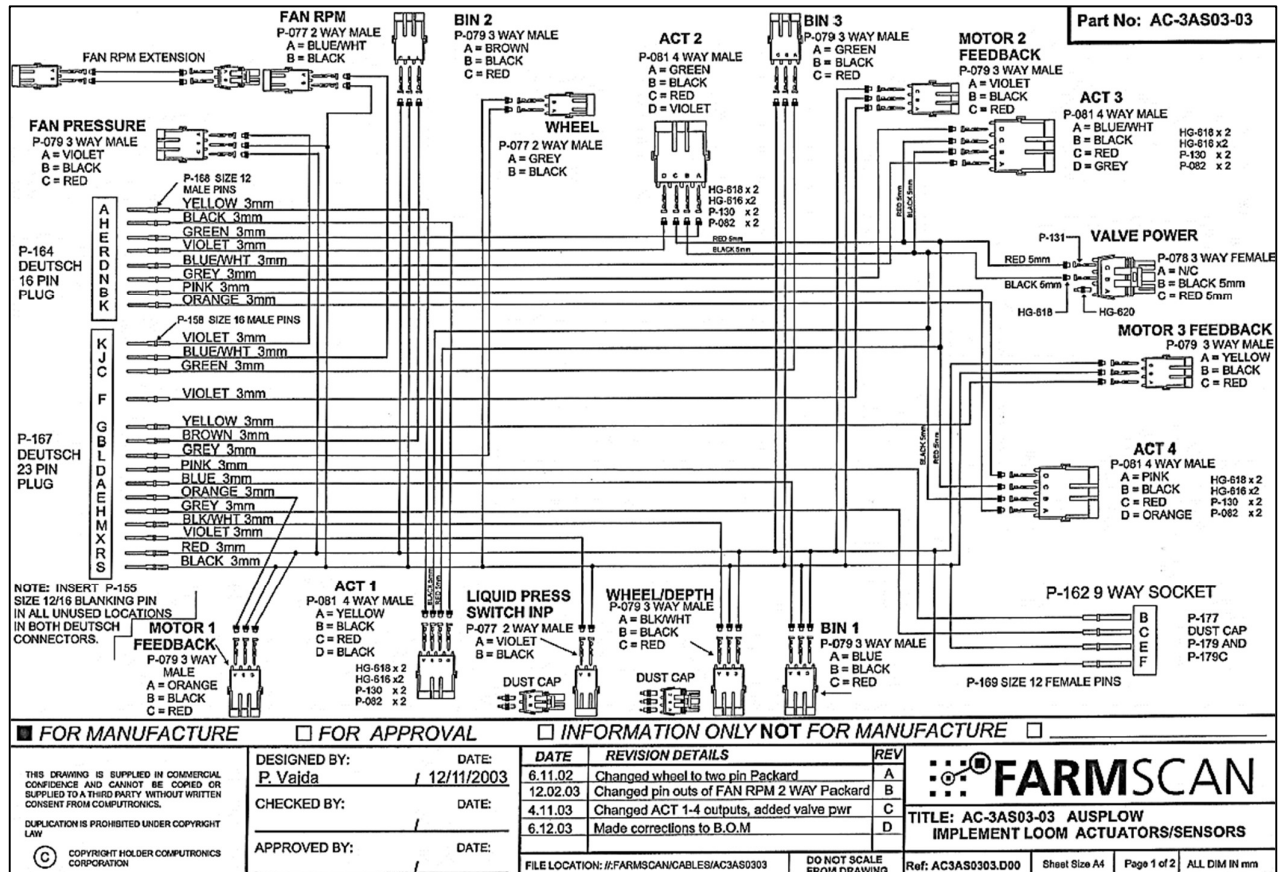


8 CAMERA CONNECTION CHART

0-0206150-1 PIN No.		0-0206151-1 PIN No.
1	BLACK CORES FROM MONITOR 1 LEADS	1
2	RED CORES FROM MONITOR 1 LEADS	2
3	WHITE CORE FROM MONITOR 1 CAMERA 1	3
4	SCREENS FROM MONITOR 1 LEADS	4
5	WHITE CORE FROM MONITOR 1 CAMERA 2	5
6	YELLOW CORE FROM MONITOR 1 CAMERA 2	6
7	WHITE CORE FROM MONITOR 1 CAMERA 3	7
8	YELLOW CORE FROM MONITOR 1 CAMERA 3	8
9	YELLOW CORE FROM MONITOR 1 CAMERA 1	9
10	WHITE CORE FROM MONITOR 1 CAMERA 4	16
11	YELLOW CORE FROM MONITOR 1 CAMERA 4	11
12	WHITE CORE FROM MONITOR 2 CAMERA 1	12
13	YELLOW CORE FROM MONITOR 2 CAMERA 1	13
14	WHITE CORE FROM MONITOR 2 CAMERA 2	14
15	YELLOW CORE FROM MONITOR 2 CAMERA 2	15
16	BLACK CORES FROM MONITOR 2 LEADS	16
17	WHITE CORE FROM MONITOR 2 CAMERA 3	17
18	YELLOW CORE FROM MONITOR 2 CAMERA 3	18
19	BLANK	19
20	WHITE CORE FROM MONITOR 2 CAMERA 4	20
21	YELLOW CORE FROM MONITOR 2 CAMERA 4	21
22	RED CORES FROM MONITOR 2 LEADS	22
23	BLANK	23
24	BLANK	11
25	BLANK	25
26	BLANK	26
27	BLANK	27
28	SCREENS FROM MONITOR 2 LEADS	28
29	BLANK	29
30	BLANK	30
31	BLANK	31
32	BLANK	32
33	BLANK	33
34	BLANK	34
35	BLANK	35
36	BLANK	36
37	BLANK	37



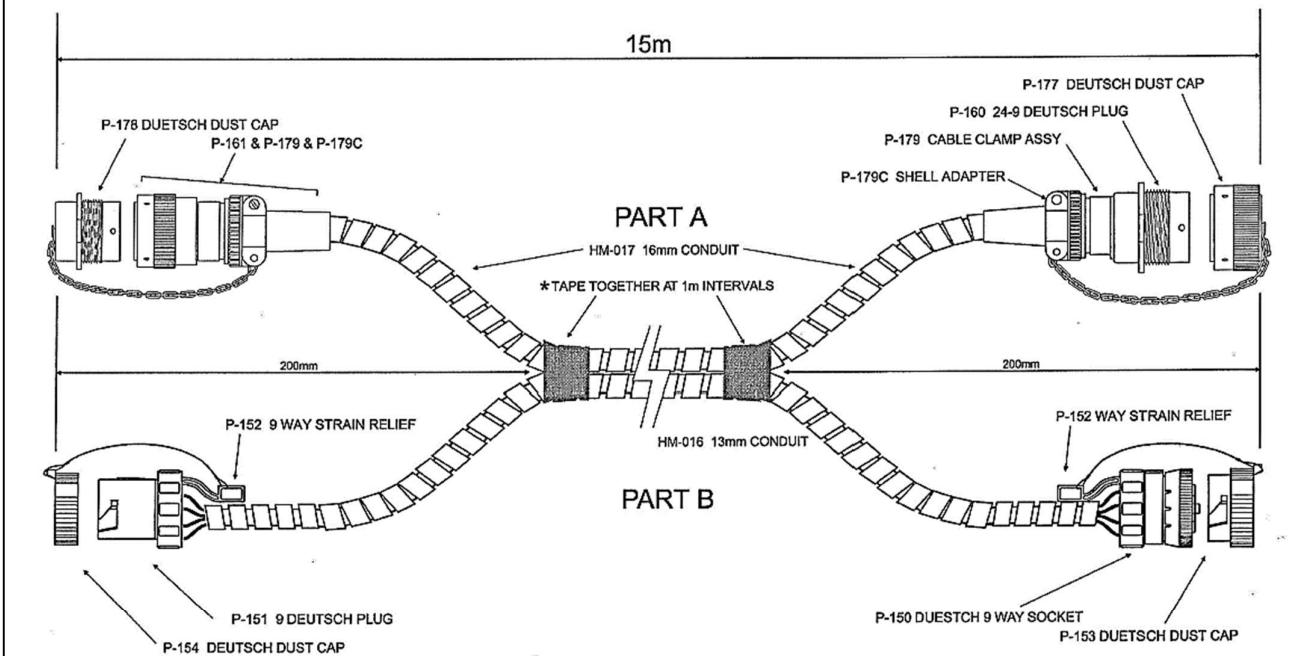




AC-3AS03-03 AUSPLOW IMPLEMENT LOOM - ACTUATORS / SENSORS

PART No.	DESCRIPTION	QUANTITY
P-164	24-16 DEUTSCH PLUG	1
P-167	24-23 DEUTSCH PLUG	1
P-158	DEUTSCH MALE PINS #16	15
P-168	DEUTSCH MALE PINS # 12	8
P-162	DEUTSCH 9 WAY SOCKET	1
P-177	DEUTSCH DUST CAP	1
P-169	SIZE 12 FEMALE PINS	4
P-179	DEUTSCH SHELL ADAPTER	1
P-179C	CABLE CLAMP ACCESSORY	1
P-155	SIZE 12/16 DEUTSCH BLANKING PIN	16
P-079	3 WAY MALE PACKARD HOUSING	8
P-077	2 WAY MALE PACKARD HOUSING	4
P-076	2 WAY FEMALE PACKARD HOUSING	2
P-078	3 WAY FEMALE PACKARD HOUSING	2
P-081	4 WAY MALE PACKARD	4
P-082	MALE PACKARD TERMINAL	40
P-130	MALE PACKARD TERMINAL 6mm	8
P-131	FEMALE PACKARD TERMINAL 6mm	2
P-083	FEMALE PACKARD TERMINAL	2
HG-616	PACKARD SEAL GREEN	42
HG-618	PACKARD SEAL BLUE	10
HG-620	PACKARD DUST CAP INSERT	6

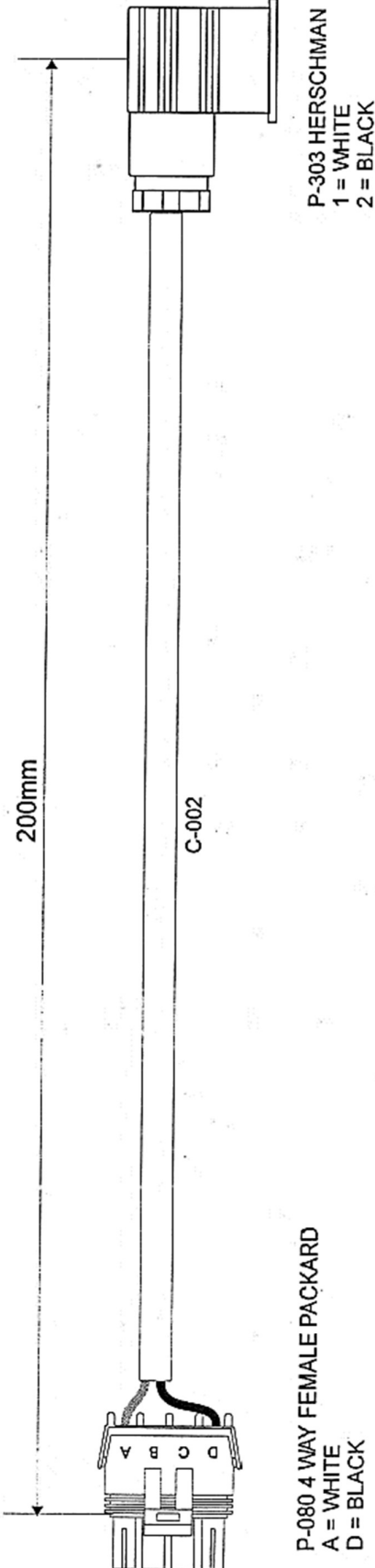
Part No: AC-3AS05-03



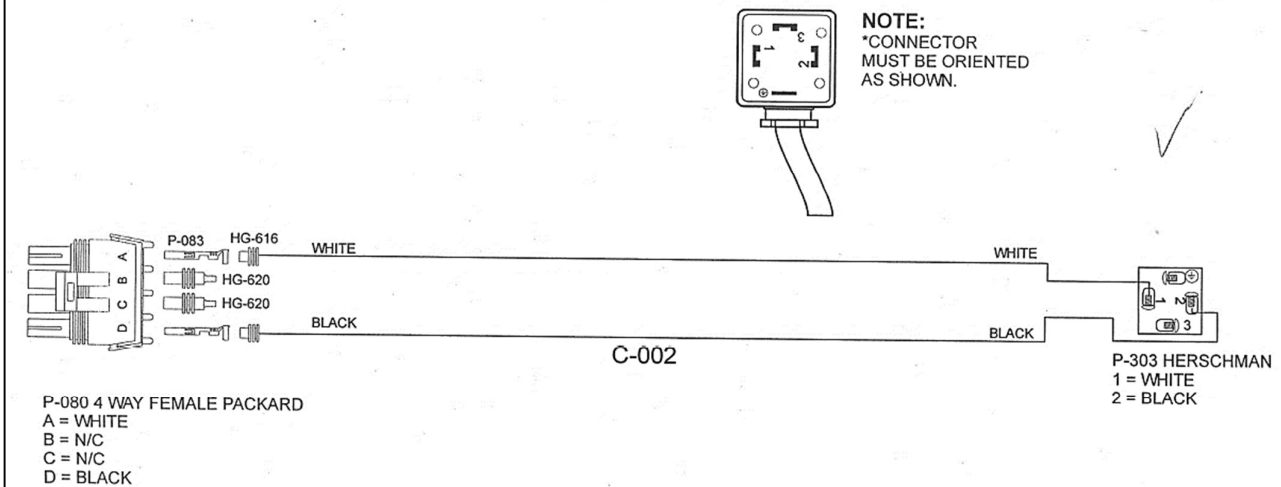
☒ FOR MANUFACTURE ☐ FOR APPROVAL ☐ INFORMATION ONLY NOT FOR MANUFACTURE		DESIGNED BY: P. Vaida DATE: 12/11/2003 CHECKED BY: DATE: APPROVED BY: DATE: FILE LOCATION: //FARMSCAN/CABLES/AC3AS0503		DATE: 6/12/03 REVISION DETAILS: Changed P-161B to P-161&P-179&P-179C added P-155 blanking pins to P-151 & P-150 REV: A		FARMSCAN TITLE: AC-3AS05-03 AUSPLOW IMPLEMENT BAR EXTENSION Ref:AC3AS0503.D00 Sheet Size A4 Page 2 of 2 ALL DIM IN mm	
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AC-3AS05-03 AUSPLOW IMPLEMENT BAR EXTENSION

PART No.	DESCRIPTION	QUANTITY
P-150	9 WAY DEUTSCH PLUG	1
P-153	DEUTSCH DUST CAP	1
P-152	DEUTSCH STRAIN RELEIF	2
P-154	DEUTSCH DUST CAP	1
P-151	9 WAY DEUTSCH SOCKET	1
P-160	924-9 DEUTSCH PLUG	1
P-161	DEUTSCH SOCKET	1
P-177	DEUTSCH DUST CAP	1
P-178	DEUTSCH DUST CAP	1
P-179	CABLE CLAMP ASSEMBLY	2
P-179C	SHELL ADAPTER	2
P-170	SIZE 8 MALE DEUTSCH PIN	2
P-171	SIZE 8 FEMALE DEUTSCH PIN	2
P-168	SIZE 12 MALE DEUTSCH PIN	6
P-169	SIZE 12 FEMALE DEUTSCH PIN	6
P-159	SIZE 16 FEMALE DEUTSCH PIN	4
P-158	SIZE 16 MALE DEUTSCH PIN	4
P-172	SIZE 4 DEUTSCH BLANKING PIN	2
P-155	SIZE 12/16 DEUTSCH BLANKING PIN	10

Part No: AC-3AS10-01		 P-080 4 WAY FEMALE PACKARD A = WHITE D = BLACK P-303 HERSCHMAN 1 = WHITE 2 = BLACK		FOR MANUFACTURE THIS DRAWING IS SUPPLIED IN COMMERCIAL CONFIDENCE AND CANNOT BE COPIED OR SUPPLIED TO A THIRD PARTY WITHOUT WRITTEN CONSENT FROM COMPUTRONICS. DUPPLICATION IS PROHIBITED UNDER COPYRIGHT LAW  FOR APPROVAL	
☐ FOR MANUFACTURE		☐ FOR APPROVAL		☐ INFORMATION ONLY NOT FOR MANUFACTURE	
DESIGNED BY: P. Valda CHECKED BY: <i>[Signature]</i> APPROVED BY: <i>[Signature]</i>		DATE: 5/11/03 DATE: DATE:		REVISION DETAILS 4 WAY PACKARD PART # CORRECTED A	
FILE LOCATION: //FARMSCAN/CABLES/AC-3AS10-01		DO NOT SCALE FROM DRAWING		TITLE: FARMSCAN AC-3AS10-01 AUSPLOW VALVE ADAPTER CABLE	
Ref: AC-3AS10-01.d00		Sheet Size A4		Page 2 of 2 ALL DIM IN mm	

Part No: AC-3AS10-01



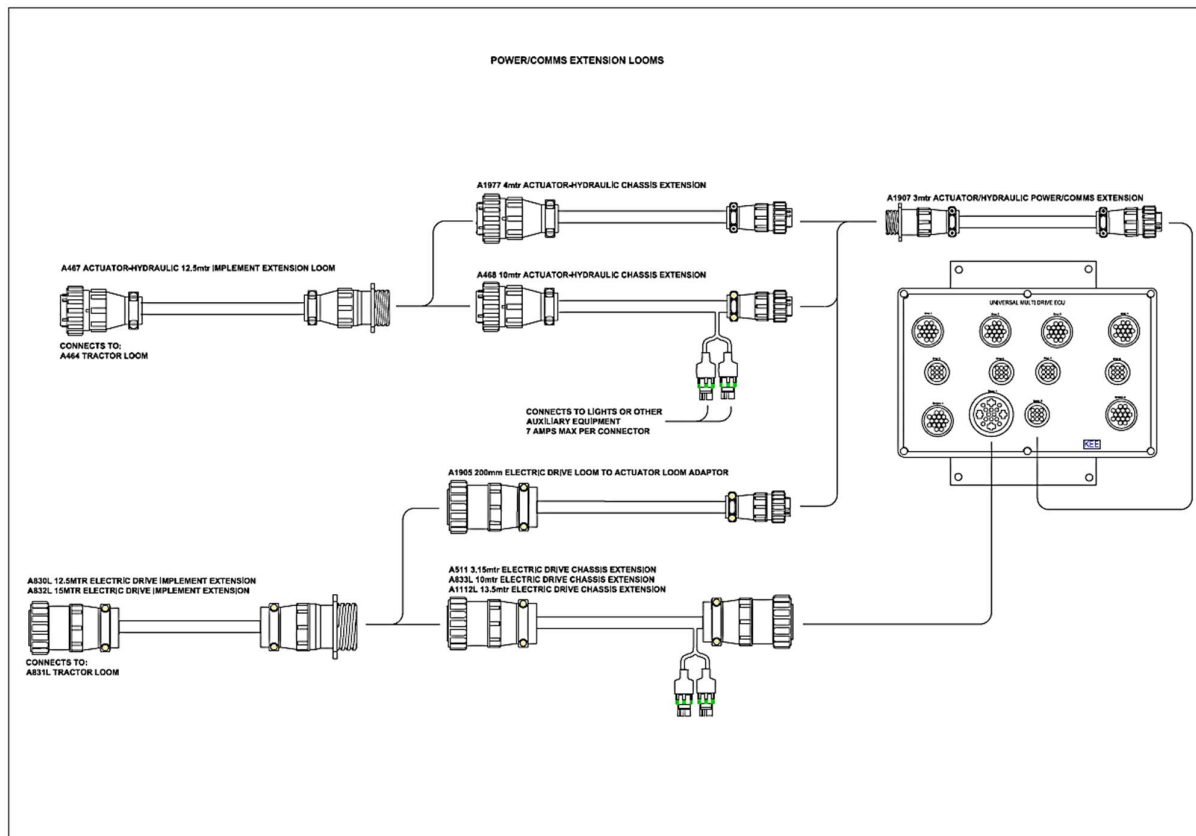
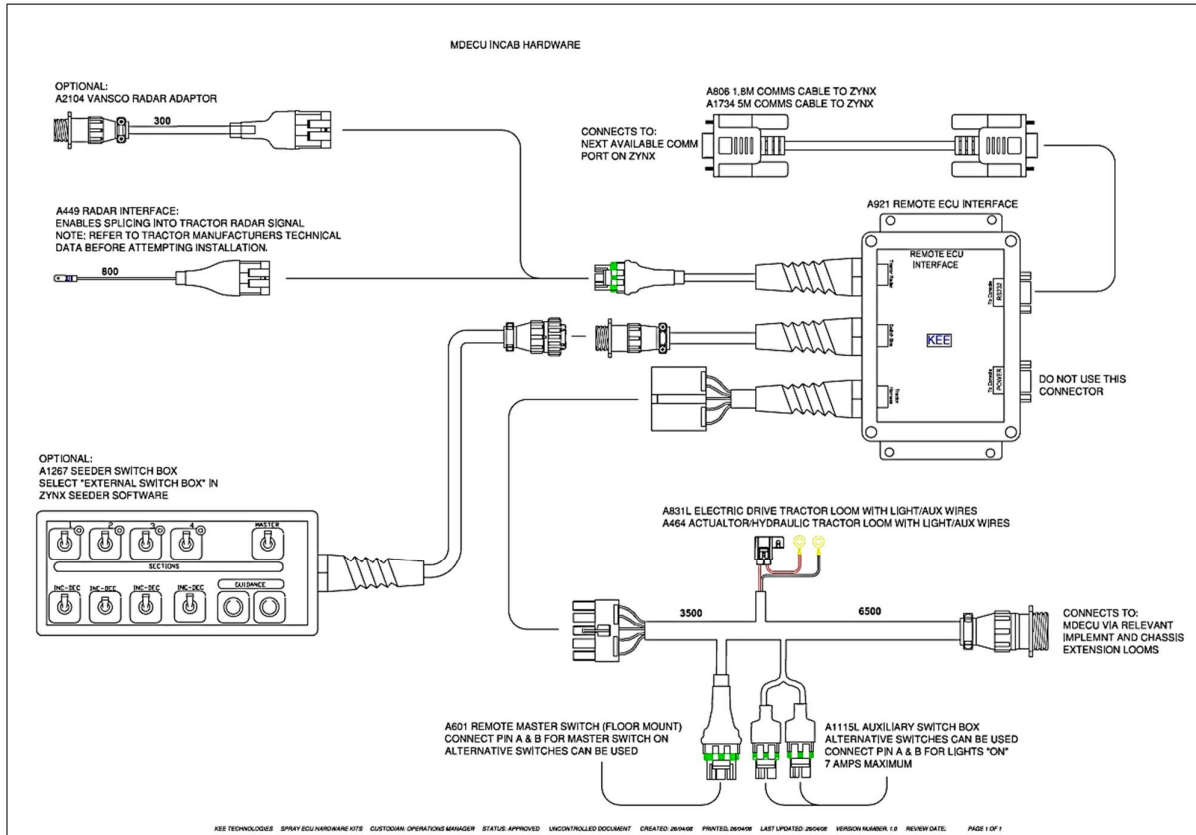
Dok 00

☐ FOR MANUFACTURE		☐ FOR APPROVAL		☐ INFORMATION ONLY NOT FOR MANUFACTURE		☐	
DESIGNED BY: P. Valda CHECKED BY: [Signature] APPROVED BY: [Signature]		DATE: 5/11/03 DATE: 18-12-03 DATE:		DATE: 6/12/03 REVISION DETAILS: 4 WAY PACKARD PART # CORRECTED REV: A		FARMSCAN TITLE: AC-3AS10-01 AUSPLOW VALVE ADAPTER CABLE	
THIS DRAWING IS SUPPLIED IN COMMERCIAL CONFIDENCE AND CANNOT BE COPIED OR SUPPLIED TO A THIRD PARTY WITHOUT WRITTEN CONSENT FROM COMPUTRONICS. DUPLICATION IS PROHIBITED UNDER COPYRIGHT LAW. © COPYRIGHT HOLDER COMPUTRONICS CORPORATION		FILE LOCATION: //FARMSCAN/CABLES/AC-3AS10-01		DO NOT SCALE FROM DRAWING		Ref: AC-3AS10-01.d00 Sheet Size A4 Page 1 of 2 ALL DIM IN mm	

AC-3AS10-01 AUSPLOW VALVE ADAPTER CABLE

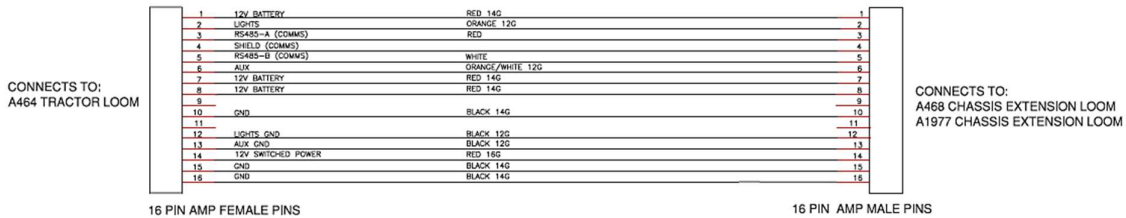
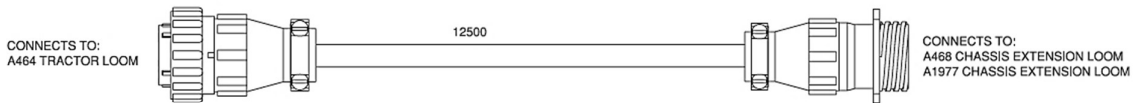
PART No.	DESCRIPTION	QUANTITY
C-002	2 CORE CABLE	0.2m
P-080	4 WAY FEMALE PACKARD HOUSING	1
P-083	FEMALE PACKARD TERMINAL	2
HG-616	PACKARD SEAL GREEN	2
P-303	HERSCHMAN CONNECTOR 4 PIN	1
HG-620	DUST CAP INSERTS	2

3.1.2 KEE LOOMS



A467 (Rev C) 12.50m

MDECU POWER/COMMS IMPLEMENT EXTENSION CABLE
(Low current applications up to 15amp, Linear Actuator, Regulator or PWM Valves)



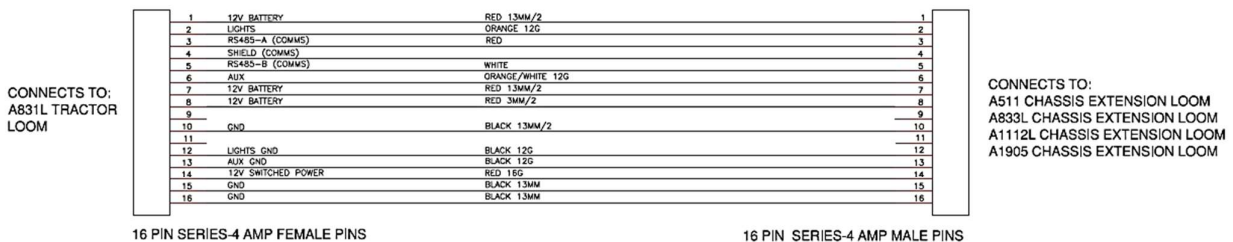
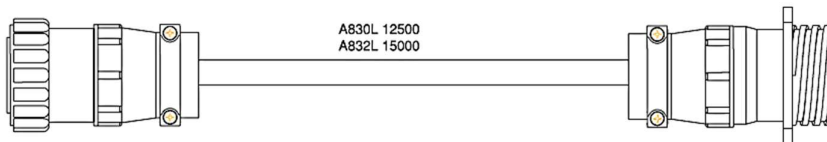
NOTES:

1. Power and Comms pinouts are identical with all earlier revision cables.
2. Light and AUX not available when connected to cables without this facility.

KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1

A830L (Rev A) 12.50m
A832L (Rev A) 15.00m

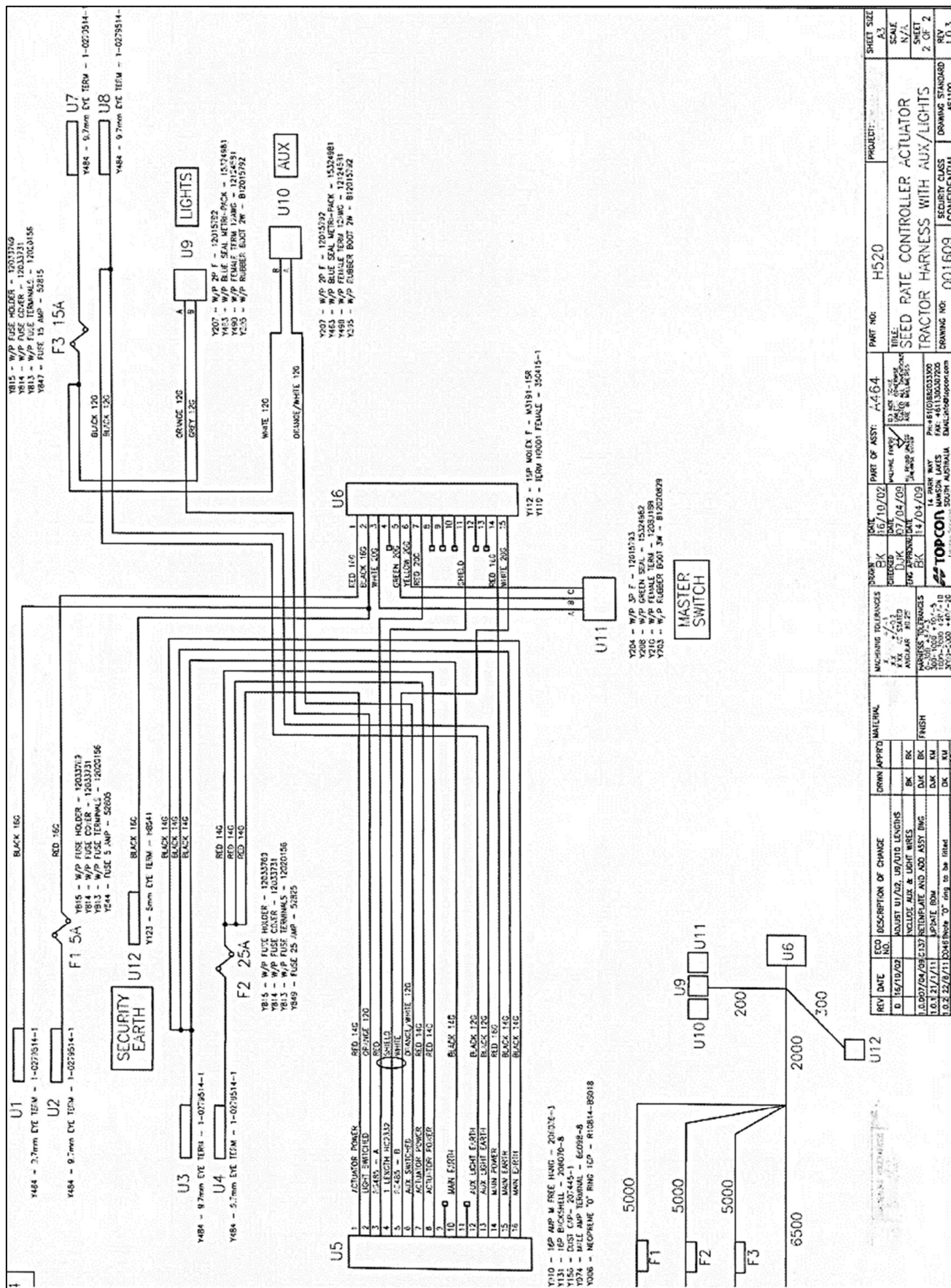
MDECU POWER/COMMS IMPLEMENT EXTENSION CABLE
(High current applications up to 50amp, Electric Motor Drive or Multiple Bin Clutches)



NOTES:

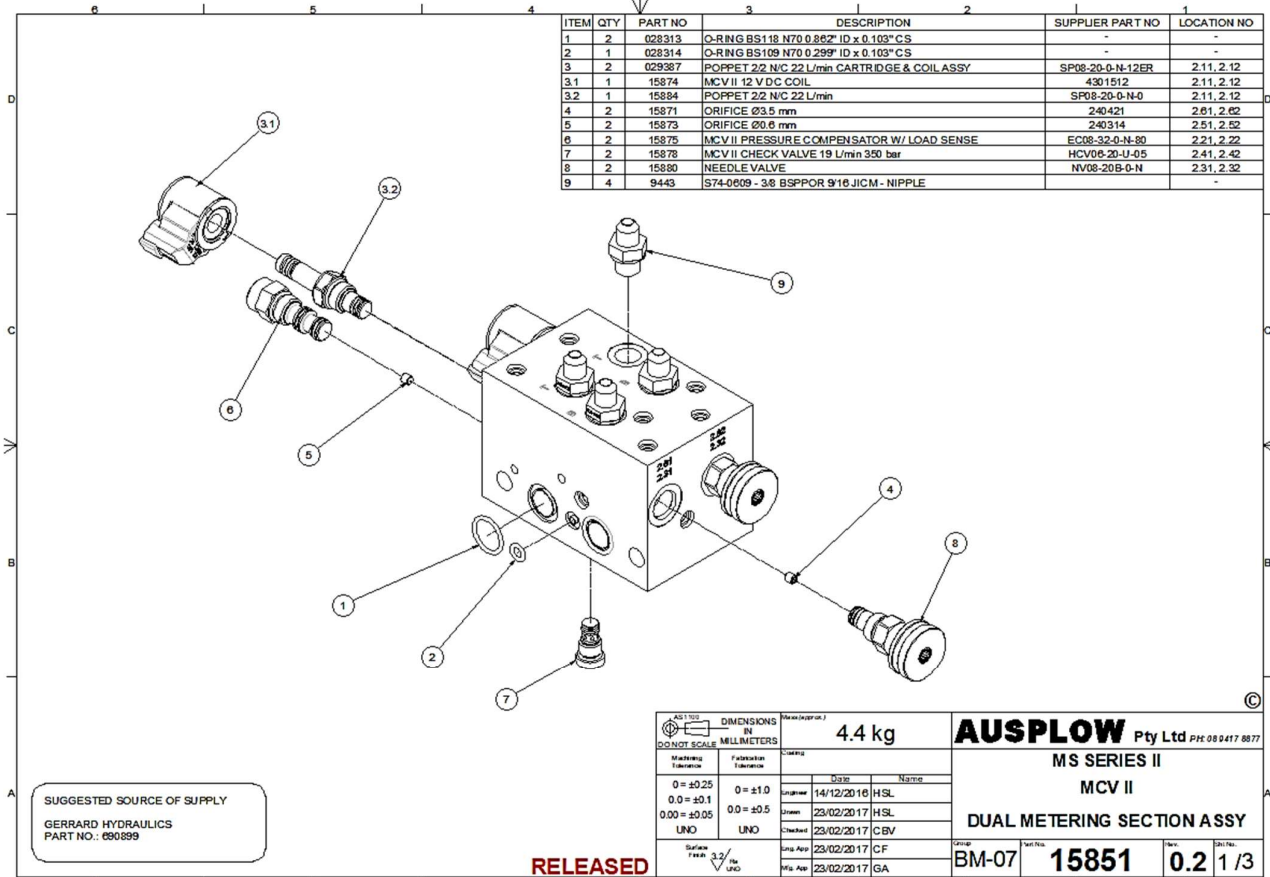
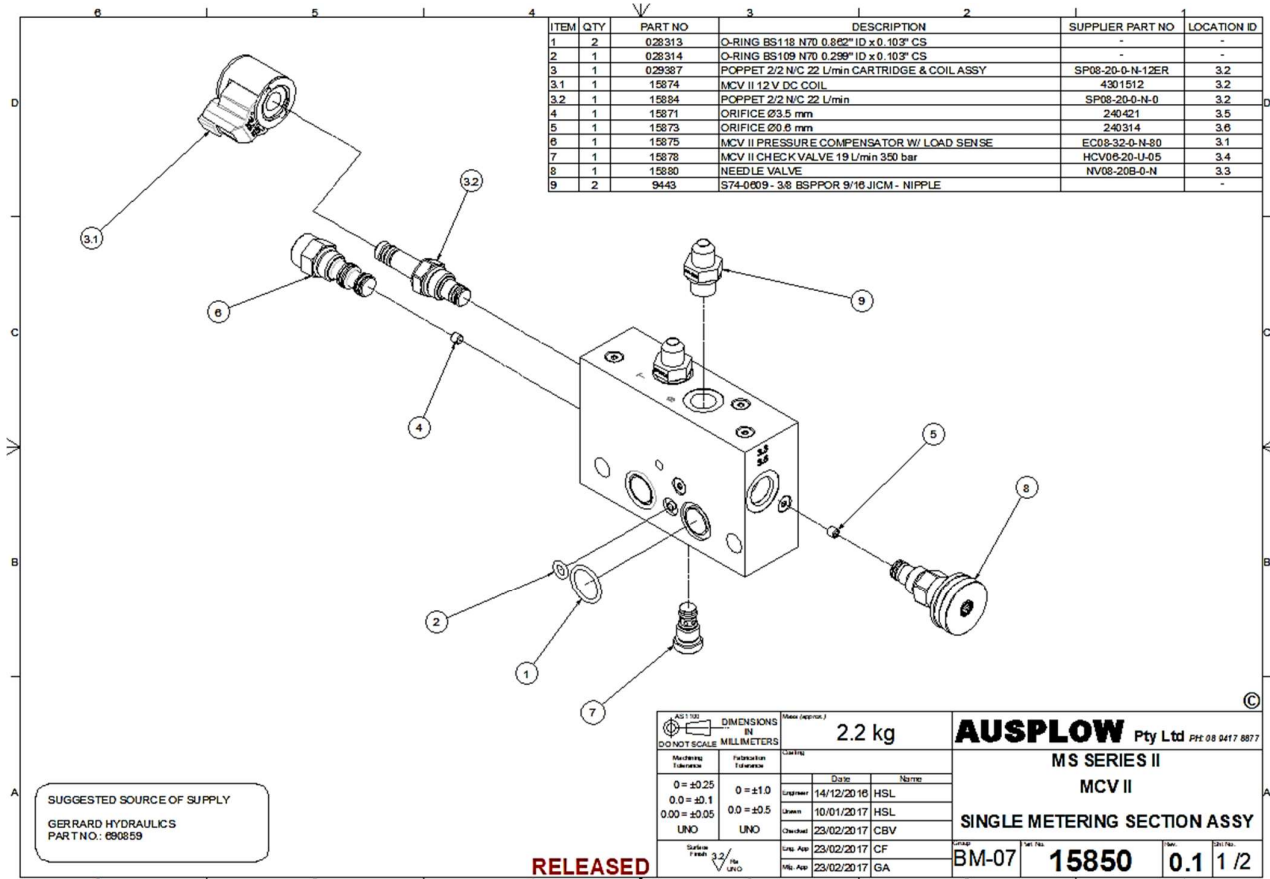
1. Power and Comms pinouts are identical with all earlier revision cables.
2. Light and AUX not available when connected to cables without this facility.

KEE TECHNOLOGIES SPRAY ECU HARDWARE KITS CUSTOMER OPERATIONS MANAGER STATUS: APPROVED UNCONTROLLED DOCUMENT CREATED: 26/04/06 PRINTED: 26/04/06 LAST UPDATED: 26/04/06 VERSION NUMBER: 1.0 REVIEW DATE: PAGE 1 OF 1



REV	DATE	ECO NO.	DESCRIPTION OF CHANGE	DRWN	APPROV	MATERIAL	MACHINING TOLERANCES	DATE	PART NO.	PROJECT	SHEET SIZE
0	16/10/02		ADJUST U1/U2, U10/A10 LENGTHS	DK	DK	DK	±0.1	16/10/02	H520		A3
1	02/07/04	02/07/04	INCLUDE AUX & LIGHT WIRING	DK	DK	DK	±0.1	02/07/04			
2	03/21/11	03/21/11	UPDATE BOM	DK	DK	DK	±0.1	03/21/11			
3	22/08/11	22/08/11	Rev 00 to be fitted	DK	DK	DK	±0.1	22/08/11			

REV	DATE	ECO NO.	DESCRIPTION OF CHANGE	DRWN	APPROV	MATERIAL	MACHINING TOLERANCES	DATE	PART NO.	PROJECT	SHEET SIZE
0	16/10/02		ADJUST U1/U2, U10/A10 LENGTHS	DK	DK	DK	±0.1	16/10/02	H520		A3
1	02/07/04	02/07/04	INCLUDE AUX & LIGHT WIRING	DK	DK	DK	±0.1	02/07/04			
2	03/21/11	03/21/11	UPDATE BOM	DK	DK	DK	±0.1	03/21/11			
3	22/08/11	22/08/11	Rev 00 to be fitted	DK	DK	DK	±0.1	22/08/11			



ITEM	QTY	PART NO	DESCRIPTION	SUPPLIER PART NO	LOCATION ID
1	1	028262	ORFICE 1/16" NPT x Ø0.8 mm	240061	1.10
2	2	028374	PLUG 3/4 UNO O-RING ALLEN KEY HEAD	S97AK-12	-
3	2	029990	DIRECTIONAL VALVE, SPOOL-TYPE, 3-WAY CARTRIDGE & COIL ASSY	SV08-30-0-N-12ER	1.2A, 1.2B
3.1	1	15874	MCV II 12 V DC COIL	4301512	1.2A, 1.2B
3.2	1	15885	DIRECTIONAL VALVE, SPOOL-TYPE, 3-WAY	SV08-30-0-N-0	1.2A, 1.2B
4	1	15870	ORFICE Ø7.5 mm	240422	1.11
5	1	15872	ORFICE M8 x Ø0.8 mm	240171	1.9
6	1	15876	PILOTED SPOOL-TYPE LOGIC ELEMENT	EP12-S35T-0-N-100	1.6
7	1	15877	PRESSURE-COMPENSATED REGULATOR	FR08-20F-0-N-M0.4	1.8
8	1	15878	MCV II CHECK VALVE 19 L/min 350 bar	HCV06-20-U-05	1.5
9	1	15879	LOAD SHUTTLING CHECK VALVE	HLS06-30-0-U	1.4
10	1	15881	PILOTED 4-WAY SPOOL-TYPE VALVE	PD16-S67D-0-N-110	1.1
11	1	15882	PRESSURE RELIEF VALVE, DIRECTING ACTING, DIFFERENTIAL AREA	RV08-22H-0-N-26-M207	1.7
12	1	15883	PRESSURE RELIEF VALVE, POPPET-TYPE, HIGH PRESSURE	RV08-20H-0-N-15-M100	1.3
13	2	5536	NIPPLE-S74-0812 - 1/2 BSPOR 3/4 JICM	-	-
14	2	7121	S74-1217 - 3/4BSPOR 1 1/16 JICM - NIPPLE	-	-

SUGGESTED SOURCE OF SUPPLY
GERRARD HYDRAULICS
PART NO.: 650900

RELEASED

DIMENSIONS IN MILLIMETERS		10.3 kg		AUSPLOW Pty Ltd PHE 08 0417 8877	
Max. Length	0 = ±0.25	Max. Weight	0 = ±1.0	MS SERIES II MCV II INLET SECTION ASSY	
Max. Width	0.0 = ±0.1	Max. Height	0.0 = ±0.5		
Max. Depth	0.0 = ±0.05	Max. Diameter	0 = ±0.05		
Max. Thickness	0 = ±0.05	Max. Surface Finish	UNO		
Surface Finish 3.2 / UNO		Surface Finish 3.2 / UNO		BM-07 15852 0.2 1/3	

REVISION HISTORY		DATE		APPROVED	
REV	REF No	DESCRIPTION	DATE	APPROVED	GC
1	ECR 1172	BM-07-15557 UPDATED	28/01/2014	GC	

Item	Qty	Code	Grp	Part No	Description
1	1	BM	07	15352	MCV INLET NO AUGER MANIFOLD ASSY
2	1	BM	07	15355	MCV END CAP
3	3	BM	07	15374	MCV THREADED ROD SS316 3 SECTION (M10x1.5 - 297 LG)
4	3	BM	07	15480	MCV METERING SECTION ASSY PROPORTIONAL INC LEAD
5	6	GP	03	9097	WASHER M10 SS 316
6	6	GP	02	9099	NUT M10 SS316

NOTE:
1. THE PURCHASED PART IS 15556 WHICH HAS THE PLUGS ADDED TO IT. THE DETAILS OF THIS ARE FOUND IN THE INLET AND METERING ASSEMBLIES.

RELEASED

DIMENSIONS IN MILLIMETERS		15.5 kg		AUSPLOW Pty Ltd PHE 08 0417 8877	
Max. Length	0 = ±0.25	Max. Weight	0 = ±1.0	MULTISTREAM MCV 3 BIN ASSY NO AUGER COMPLETE	
Max. Width	0 = ±0.1	Max. Height	0.0 = ±0.5		
Max. Depth	0.0 = ±0.05	Max. Diameter	0 = ±0.05		
Max. Thickness	0 = ±0.05	Max. Surface Finish	UNO		
Surface Finish 3.2 / UNO		Surface Finish 3.2 / UNO		BM-07 15557 1 1/1	

Ausplow Technical Service Manual

REVISION HISTORY					Item		Qty		Cod		Grp		Part No		Description	
REV	REF No	DESCRIPTION	DATE	APPROVED												
1	ECR 1172	EL-01-9161, EL-01-14412 AND EL-01-9158 REPLACED WITH EL-01-9162, EL-01-14413 AND EL-01-9156	25/11/2013	GC	1	1	EL	01	14413							RUBBER BOOT SUITS 3 PIN PACKARD CONNECTOR
					2	1	EL	03	15468							PVC TUBING 6 mm x 250 LG BLACK UV PROTECTED
					3	1	BM	07	15478							MCV METERING SECTION ASSY PROPORTIONAL AS PURCHASED
					4	1	EL	03	15479							HEAT SHRINK DOUBLE WALL 10/3 BLACK x 20 LG
					5	1	EL	01	9156							PACKARD PLUG (FEMALE) 3 CIRCUIT - TAKES PINS (MALE)
					6	2	EL	01	9159							TERMINAL-MALE-PACKARD-3mm CABLE
					7	2	EL	01	9162							SEAL-PACKARD RED 1.29 TO 2.06 mm Cable Dia

NOTE: IT DOES NOT MATTER WHICH COIL WIRE GOES TO A OR B ON THE PACKARD PLUG.

187 DIA

320 APPROX

48

NOTE: TRIM END OF BOOT AS SHOWN BELOW.

DETAIL A

TRIM OFF BOOT

NOTE: THE END OF THE BOOT 14413 NEEDS TO BE TRIMMED TO THE NEXT RIDGE. THIS ALLOWS THE PVC TUBING TO FIT THROUGH HOLE IN BOOT.

DIMENSIONS IN MILLIMETERS		3.2 kg		AUSPLOW Pty Ltd PPH 08 0417 8877	
Max (approx.)	Min	Max (approx.)	Min	Max (approx.)	Min
0 = ±0.25	0 = ±1.0	0 = ±0.25	0 = ±1.0	0 = ±0.25	0 = ±1.0
0.00 = ±0.05	0.00 = ±0.5	0.00 = ±0.05	0.00 = ±0.5	0.00 = ±0.05	0.00 = ±0.5
UNO	UNO	UNO	UNO	UNO	UNO

RELEASED

REVISION HISTORY					Item		Qty		Cod		Grp		Part No		Description	
REV	REF No	DESCRIPTION	DATE	APPROVED												
					1	1	BM	07	15354							MCV METERING MANIFOLD ASSY
					2	1	BM	07	15400							C-TOP 2 METERING VALVE ASSY AS PURCHASED
					2.1	1	BM	07	15413							C-TOP 2 PROPORTIONAL VALVE BODY ONLY NO COIL
					2.2	1	BM	07	15401							PROPORTIONAL VALVE COIL C-TOP2 12V 1.70A 4.68 Ohms
					2.3	1	BM	07	15414							C-TOP 2 PROPORTIONAL VALVE COIL NUT
					2.4	1	BM	07	15415							C-TOP 2 PROPORTIONAL VALVE COIL BOOT
					2.5	1	BM	07	15401							O-RING ID 19 x 1.5 mm NITRILE METRIC
					2.6	4	GP	01	9069							SCREW - M5 x 35 C12.9 SKT HD CAP
					3	3	BM	07	15405							O-RING ID 22.23x2.62 mm - BS119-701
					4	1	HF	50	15471							CHECK VALVE CARTRIDGE 210692-01
					5	1	BM	07	15410							MCV NEEDLE VALVE PB-NVA-0K
					6	1	BM	07	15408							MCV METERING COMPENSATOR DPS2-10-F-F-0-801
					7	1	HF	20	9069							PLUG - SOCKET HEAD SAE #4
					8	2	HF	25	7152							NIPPLE - 3/4-0809 - 1/2 BSPP OM x 9/16 JICM

1

2

3

4

5

6

7

8

2.1

2.2

2.3

2.4

2.5

2.6

COIL

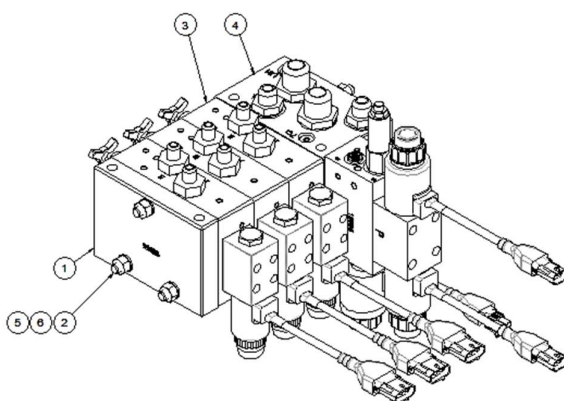
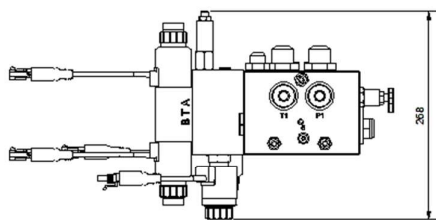
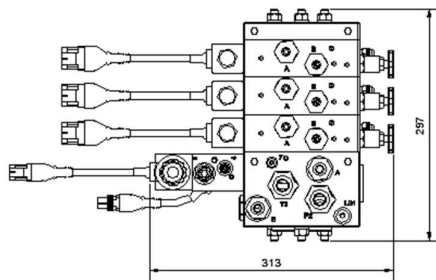
CIRCUIT DIAGRAM

3 CONTACT FEMALE HOUSING 9156

DIMENSIONS IN MILLIMETERS		3.2 kg		AUSPLOW Pty Ltd PPH 08 0417 8877	
Max (approx.)	Min	Max (approx.)	Min	Max (approx.)	Min
0 = ±0.25	0 = ±1.0	0 = ±0.25	0 = ±1.0	0 = ±0.25	0 = ±1.0
0.00 = ±0.05	0.00 = ±0.5	0.00 = ±0.05	0.00 = ±0.5	0.00 = ±0.05	0.00 = ±0.5
UNO	UNO	UNO	UNO	UNO	UNO

RELEASED

REVISION HISTORY				Item						Description	
REV	REF No	DESCRIPTION	DATE	APPROVED	1	Qty	Cod	Grp	Part No		
1	ECR 1172	BM-07-15542 UPDATED	24/01/2014	GC	2	3	BM	07	15374	MCV END CAP	
2	ECR 1307	BM-07-15540 REPLACED WITH BM-08-027235. DIMS 313 AND 288	13/01/2015	CF	3	3	BM	07	15480	MCV METERING SECTION ASSY. PROPORTIONAL INC LEAD	
3	ECR 1486	BM-07-027235 REPLACED WITH BM-07-15540	18/09/2015	CF	4	1	BM	07	15540	MCV INLET SECTION ASSY INCLUDING LEADS	
					5	6	GP	03	9097	WASHER M10 SS 316	
					6	6	GP	02	9099	NUT M10 SS316	

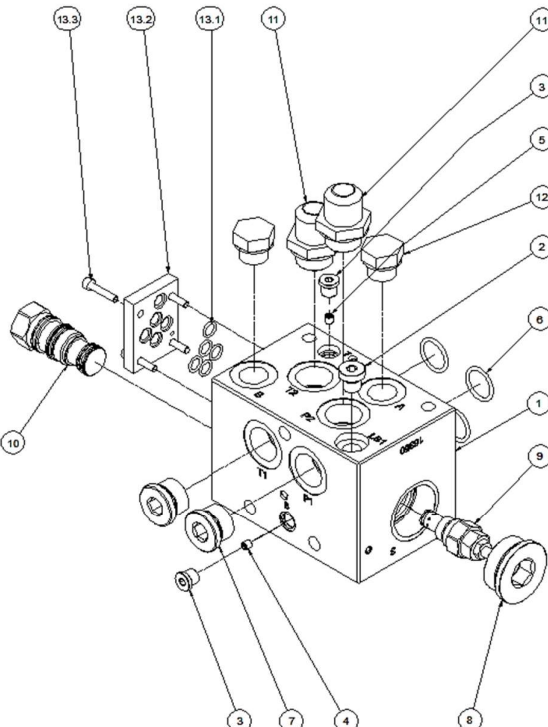


NOTE:
1. THE PURCHASED PART IS 15358 WHICH HAS THE PLUGS
ADDED TO IT. THE DETAILS OF THIS ARE FOUND IN
THE INLET AND METERING ASSEMBLIES.

DIMENSIONS IN MILLIMETERS		17.7 kg		AUSFLOW Pty Ltd PH: 08 9417 8877	
DO NOT SCALE		MULTISTREAM		MCV 3 BIN ASSY ELECTRONIC	
AUGER COMPLETE		BM-07		15542	
3		1		1/1	

RELEASED

Item				Description	
1	1	BM	07	15351	MCV INLET / AUGER MANIFOLD ASSEMBLY
2	1	HF	20	9063	PLUG - SOCKET HEAD 1/4" BSPP (-04)
3	2	HF	20	9068	PLUG - SOCKET HEAD SAE #4
4	1	HF	30	025730	ORIFICE ORF M6-0.81
5	1	HF	30	025731	ORIFICE ORF M6-0.41
6	3	BM	07	15465	O'RING ID 22.23x2.62 mm - BS119-701
7	2	HF	20	9067	PLUG SOCKET HEAD 3/4" BSPP (DASH-12)
8	1	HF	20	9068	PLUG SOCKET HEAD SAE #20
9	1	HF	55	15466	DIRECT ACTING RELIEF VALVE 04.11.49-03-56-20
10	1	HF	52	15467	COMPENSATOR LRFC-XFN
11	2	HF	27	7121	S74-1217 - 3/4BSPPOR 1 1/16 JICM - NIPPLE
12	2	HF	20	7150	S73-08 - 1/2BSPPOR - PLUG
13	1	BM	07	15477	MCV AUGER SANDWICH BLOCK BLANKING PLATE KIT
13.1	5	BM	07	15473	CYLIND SUITS C-TOPS ID 9.53 x 1.78 mm (SS312)
13.2	1	BM	07	15476	MCV AUGER SANDWICH BLOCK BLANKING PLATE ONLY
13.3	4	GP	01	9099	SCREW - M 5 x 25 C129 SkHd Cap



NOTE:

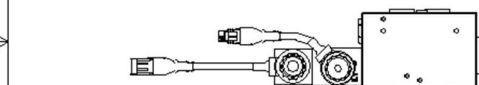
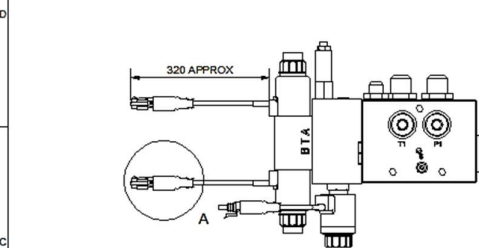
THE 1" JIC NIPPLES ITEM 18 MAY BE SWAPPED FROM
P2, T2 POSITION TO THE P1, T1 POSITION. THE PLUGS
2" SOCKET HEAD ITEM 7 WILL HAVE TO BE MOVED.

THESE PLUGS ARE MOVED DEPENDING ON THE APPLICATION.

DIMENSIONS IN MILLIMETERS		4.4 kg		AUSFLOW Pty Ltd PH: 08 9417 8877	
DO NOT SCALE		MULTISTREAM		MCV INLET NO AUGER	
MANIFOLD ASSY		BM-07		15352	
0.1		2		2/2	

RELEASED

REV	REF No	REVISION HISTORY	DATE	APPROVED
1	ECR 1172	EL-01-9101 REPLACED WITH EL-01-9102	25/11/2013	GC

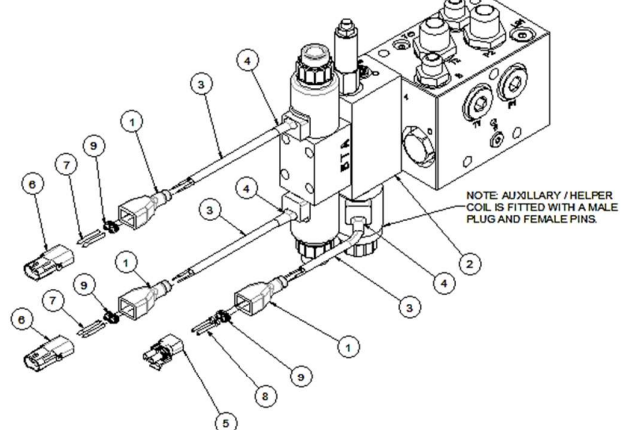


NOTES:
1. REMOVE ALL BURRS & SHARP EDGES.
2. ALL DIMS MARKED () ARE REFERENCE ONLY.

RELEASED

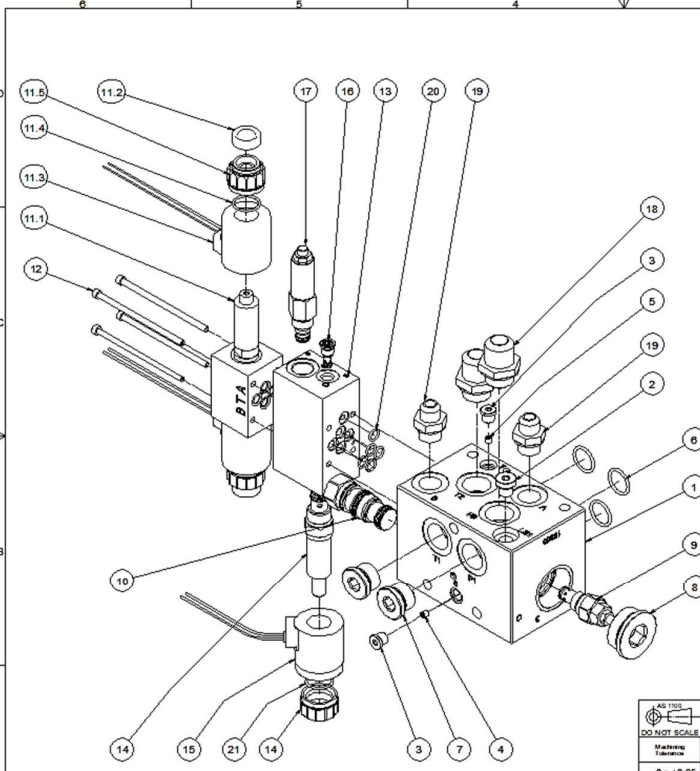
Item	Qty	Cod	Grp	Part No	Description
1	3	EL	01	14412	RUBBER BOOT SUITS 2 PIN PACKARD CONNECTOR
2	1	BM	07	15455	MCV INLET / AUGER SECTION AS PURCHASED
3	3	EL	03	15458	PVC TUBING 6 mm x 250 LG BLACK UV PROTECTED
4	3	EL	03	15479	HEAT SHRINK DOUBLE WALL 10/3 BLACK x 20 LG
5	1	EL	01	9157	PACKARD PLUG (MALE) 2 CIRCUIT - TAKES SOCKETS (FEMALE)
6	2	EL	01	9158	PACKARD PLUG (FEMALE) 2 CIRCUIT - TAKES PINS (MALE)
7	4	EL	01	9159	TERMINAL-MALE-PACKARD-3mm CABLE
8	2	EL	01	9160	TERMINAL-FEMALE-PACKARD-3mm CABLE
9	6	EL	01	9162	SEAL-PACKARD RED 1.29 TO 2.05 mm Cable Dia

NOTE: IT DOES NOT MATTER WHICH COIL WIRE GOES TO A OR B ON THE PACKARD PLUGS.



NOTE: AUXILIARY / HELPER COIL IS FITTED WITH A MALE PLUG AND FEMALE PINS.

AS 1100 DIMENSIONS IN MILLIMETERS		6.6 kg		AUSPLOW Pty Ltd PFC 05 9417 8877	
DO NOT SCALE				MULTISTREAM	
				MCV INLET SECTION ASSY	
				INCLUDING LEADS	
				BM-07 15540 1 1/1	

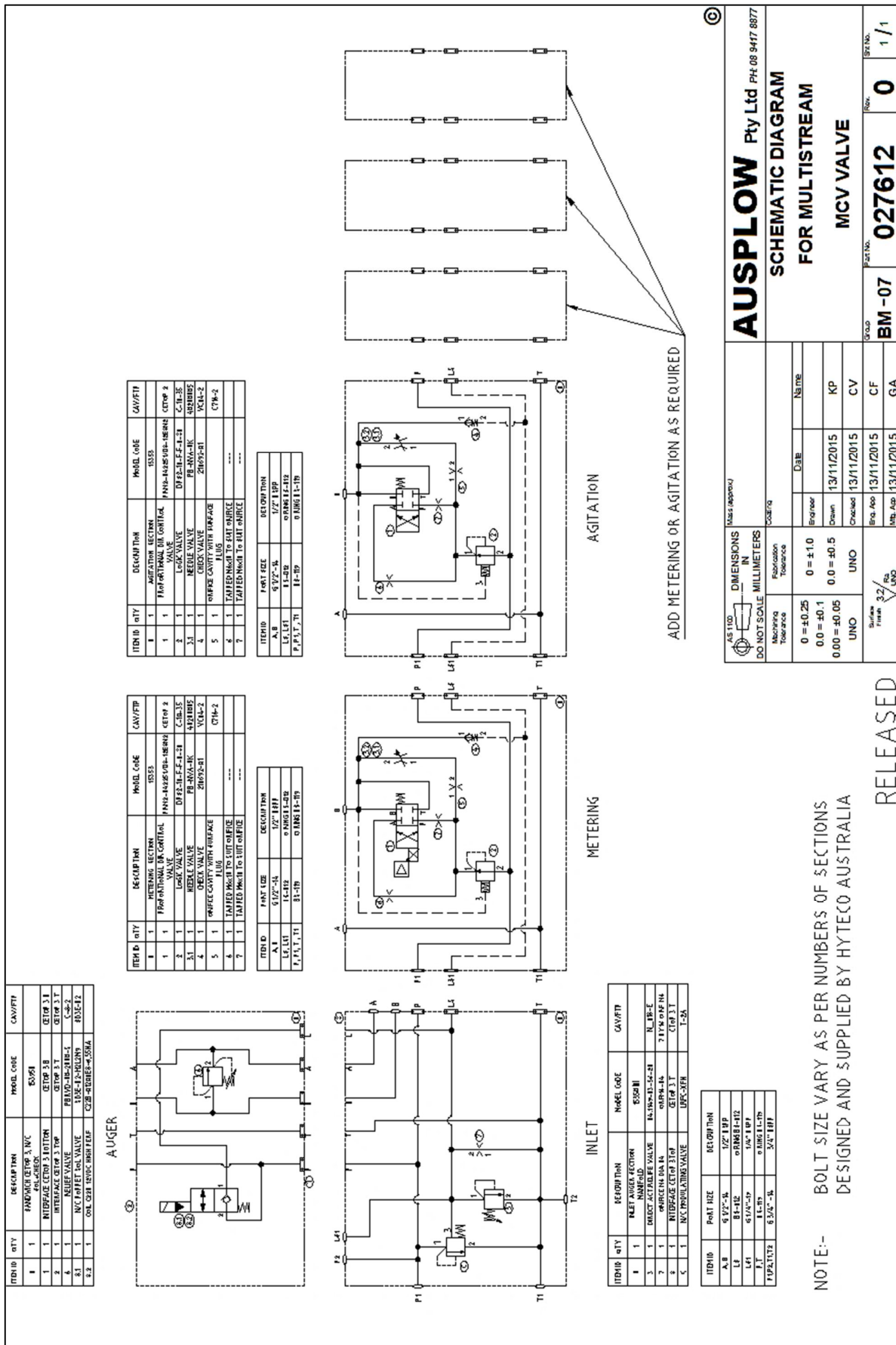


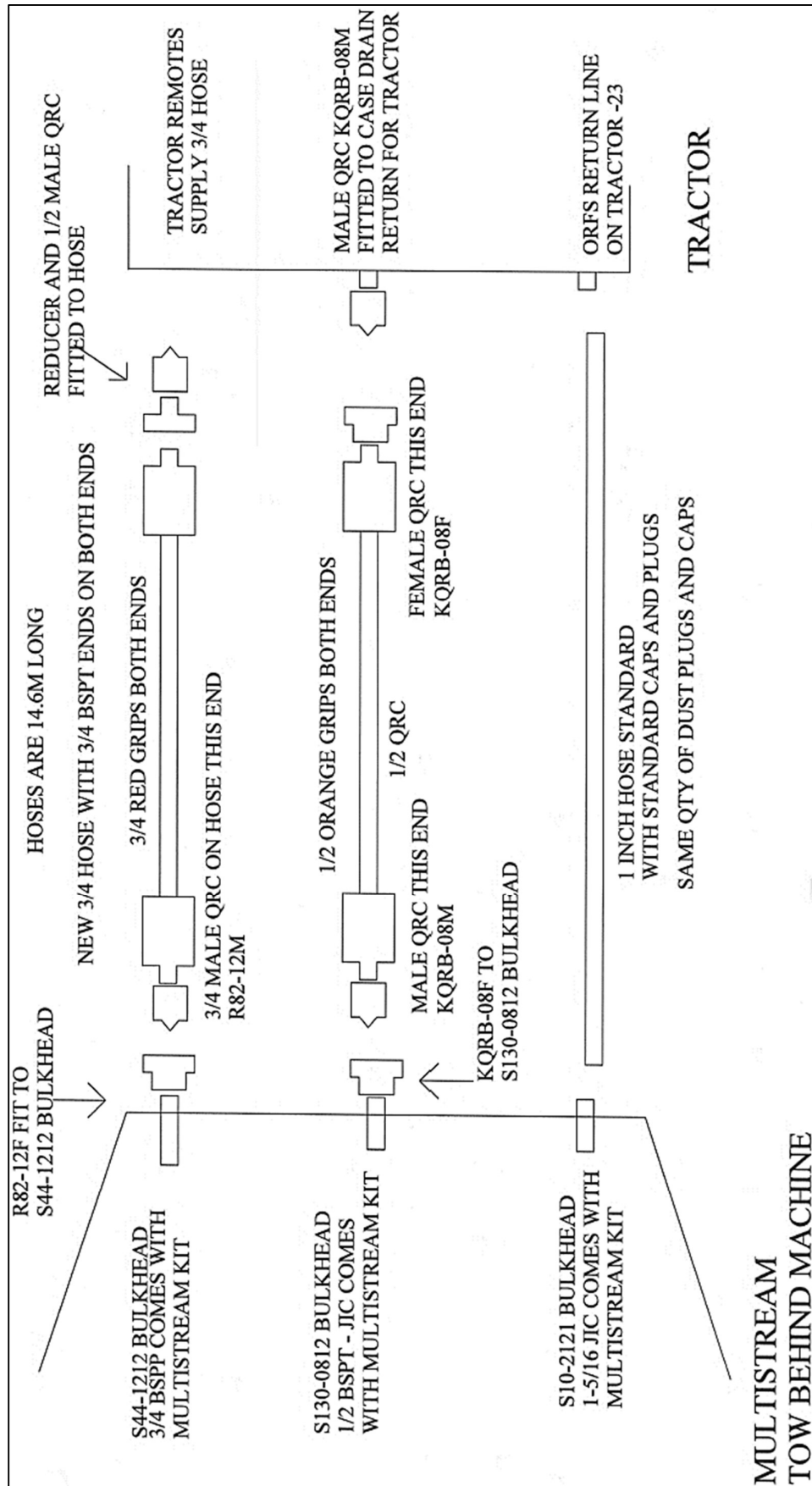
Item	Qty	Code	Grp	Part No	Description
1	1	BM	07	15351	MCV INLET / AUGER MANIFOLD ASSEMBLY
2	1	HF	20	9063	PLUG - SOCKET HEAD 1/4" BSPP (-04)
3	2	HF	20	9068	PLUG - SOCKET HEAD SAE #4
4	1	HF	30	025730	ORIFICE ORF M5-0.81
5	1	HF	30	025731	ORIFICE ORF M5-0.41
6	3	BM	07	15455	O-RING ID 22.23x2.62 mm - BS119-701
7	2	HF	20	9067	PLUG SOCKET HEAD 3/4" BSPP (DASH-12)
8	1	HF	20	9068	PLUG SOCKET HEAD SAE #20
9	1	HF	55	15406	DIRECT ACTING RELIEF VALVE 04.11.49-03-56-20
10	1	HF	52	15407	COMPENSATOR LRFC-XFN
11	1	HF	50	15389	C-TOP 3 AUGER DIRECTIONAL VALVE ASSY AS PURCHASED
11.1	1	BM	07	15456	C-TOP 3 DIRECTIONAL VALVE BODY ONLY NO COIL
11.2	2	BM	07	15458	C-TOP 3 DIRECTIONAL VALVE COIL 500T
11.3	2	BM	07	15390	DIRECTIONAL VALVE AUGER COIL C-TOP3 12V 2.72A
11.4	2	BM	07	15460	O-RING ID 22 x 2.0 mm NITRILE DIN 3770
11.5	2	BM	07	15457	C-TOP 3 DIRECTIONAL VALVE COIL NUT SUITS BOOT
12	4	GP	01	9070	SCREW - M5 x 110 C12.9 SKT HD CAP
13	1	BM	07	15409	MCV AUXILIARY VALVE 60 L MANIFOLD ASSY
14	1	HF	50	15470	NC POPPET SOLENOID VALVE S035-B2
15	1	BM	07	15396	CARTRIDGE VALVE AUGER COIL 22 mm 12V 1.83A
16	1	HF	50	15471	CHECK VALVE CARTRIDGE 210892-01
17	1	HF	55	15472	AUGER RELIEF VALVE PB-RVD-00-2000
18	2	HF	27	1121	S74-1217-3/4BSPPOR 1 1/8 JIC M. NIPPLE
19	2	BA	05	5536	NIPPLE-S74-0812 - 1/2 BSPPOR 3/4 JIC M
20	5	BM	07	15473	O-RING SUITS C-TOP3 ID 9.53 x 1.73 mm (BS012)
21	1	BM	07	15460	O-RING ID 22 x 2.0 mm NITRILE DIN 3770

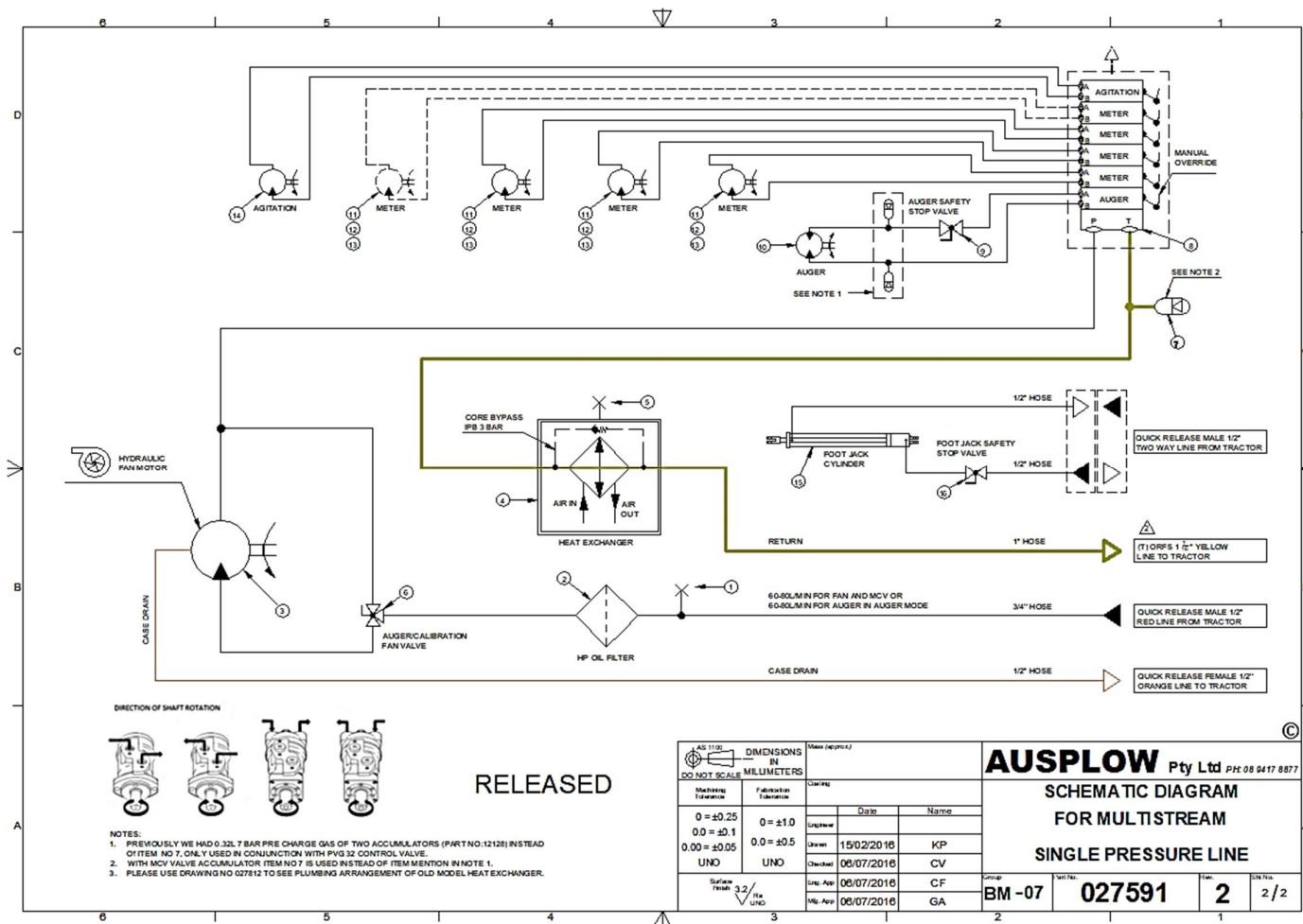
NOTE:
THE 3/4" JIC NIPPLES ITEM 18 MAY BE SWAPPED FROM P2, T2 POSITION TO THE P1, T1 POSITION. THE PLUGS
3/4" SOCKET HEAD ITEM 7 WILL HAVE TO BE MOVED.
THESE PLUGS ARE MOVED DEPENDING ON THE APPLICATION.

AS 1100 DIMENSIONS IN MILLIMETERS		6.5 kg		AUSPLOW Pty Ltd PFC 05 9417 8877	
DO NOT SCALE				MULTISTREAM	
				MCV INLET / AUGER SECTION	
				AS PURCHASED	
				BM-07 15455 0.1 1/2	

RELEASED

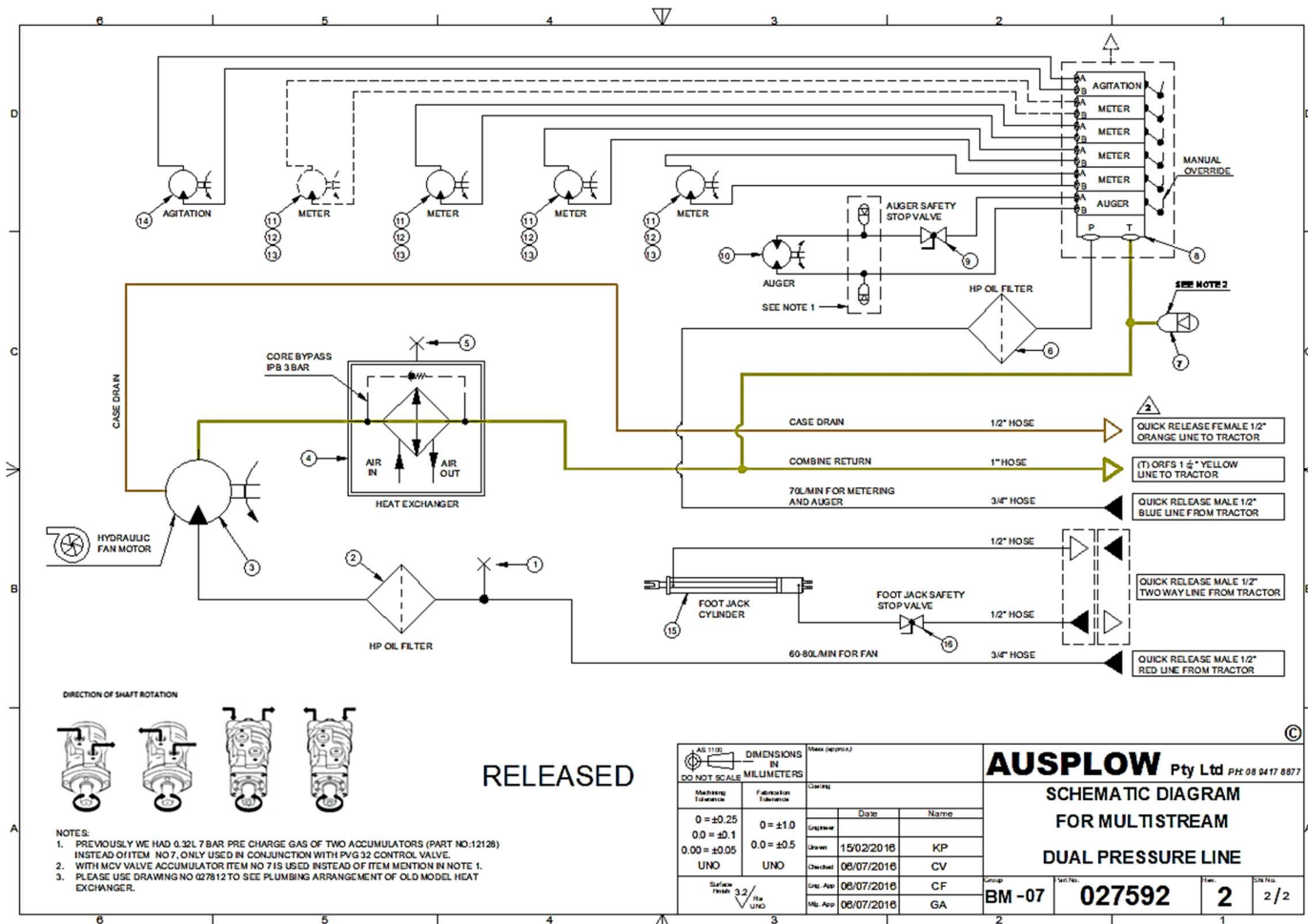






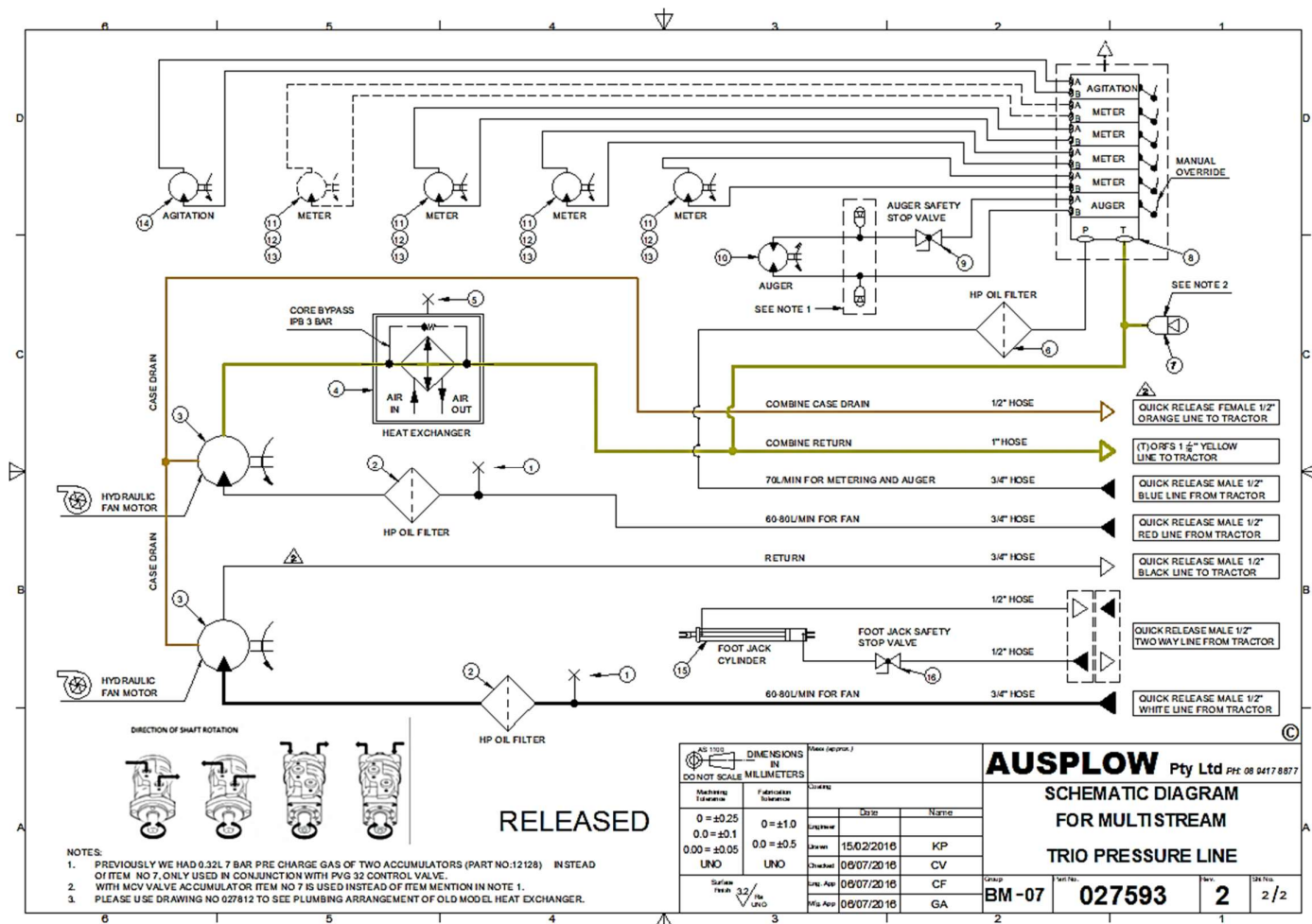
SINGLE PRESSURE LINE SCHEMATIC DIAGRAM PART DETAIL

Item	Qty	Cod	Grp	PARTS NO	PART DESCRIPTION
1	1	HF	29	7142	PRESSURE TEST POINT
2	1	HF	70	7564	OIL FILTER FOR FAN (MICRON RATING 20µm)
3	1	HF	45	9583	FAN MOTOR-19CM ³ BENT AXIS PISTON
4	1	BM	7	27106	AIR COOLED HEAT EXCHANGER CORE (BYPASS IPB 3 BAR)
5	1			15764	HEAT EXCHANGER PRESSURE TEST POINT
6	1				AUGER/CALIBRATION FAN VALVE
7	1	BM	7	027403	ACCUMULATOR (0.75L) 5 BAR PRE CHARGE GAS
8	1				MCV DIRECTIONAL CONTROL VALVE (SEE DRAWING BM-07-027612)
9	1				AUGER SAFETY STOP VALVE
10	1	BM	5	12613	AUGER MOTOR (OMR 125 HF-45-9554)-125CM ³ ORBITAL
11	1	HF	45	9191	METERING MOTOR FOR SEED (OMR 200)-200CM ³ ORBITAL
12	1	HF	45	9190	METERING MOTOR FOR FERTILIZER (OMR 100)-100CM ³ ORBITAL
13	1	HF	45	9350	LIQUID PUMP MOTOR (OMM 12.5CC SIDE PORT) ORBITAL
14	1	HF	45	9294	LIQUID AGITATION MOTOR (OMM 8CC SIDE PORT) ORBITAL
15	1	BM	7	6238	FOOT JACK CYLINDER (3.5" X 8")
16	1				FOOT JACK SAFETY STOP VALVE



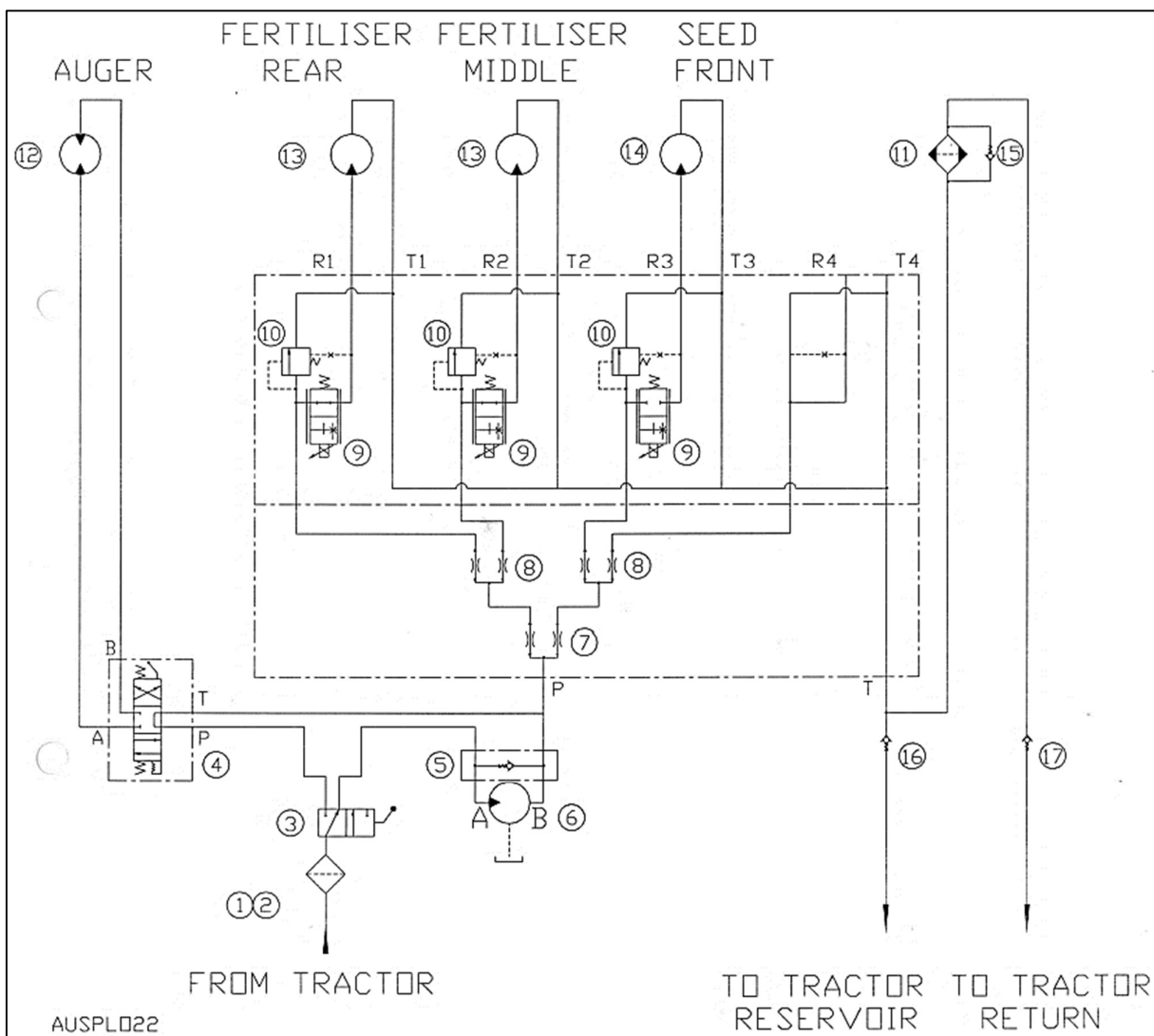
DUAL PRESSURE LINE SCHEMATIC DIAGRAM PART DETAIL

Item	Qty	Cod	Grp	PARTS NO	PART DESCRIPTION
1	1	HF	29	7142	PRESSURE TEST POINT
2	1	HF	70	7564	OIL FILTER FOR FAN (MICRON RATING 20µm)
3	1	HF	45	9583	FAN MOTOR-19CM ³ BENT AXIS PISTON
4	1	BM	7	27106	AIR COOLED HEAT EXCHANGER CORE (BYPASS IPB 3 BAR)
5	1			15764	HEAT EXCHANGER PRESSURE TEST POINT
6	1	HF	70	7564	OIL FILTER FOR VALVE (MICRON RATING 20µm)
7	1	BM	7	027403	ACCUMULATOR (0.75L) 5 BAR PRE CHARGE GAS
8	1				M CV DIRECTIONAL CONTROL VALVE (SEE DRAWING BM-07-027612)
9	1				AUGER SAFETY STOP VALVE
10	1	BM	5	12613	AUGER MOTOR (OMR 125 HF-45-9554)-125CM ³ ORBITAL
11	1	HF	45	9191	METERING MOTOR FOR SEED (OMR 200)-200CM ³ ORBITAL
12	1	HF	45	9190	METERING MOTOR FOR FERTILIZER (OMR 100)-100CM ³ ORBITAL
13	1	HF	45	9350	LIQUID PUMP MOTOR (OMM 12.5CC SIDE PORT) ORBITAL
14	1	HF	45	9294	LIQUID AGITATION MOTOR (OMM 8CC SIDE PORT) ORBITAL
15	1	BM	7	6238	FOOT JACK CYLINDER (3.5" X 8")
16	1				FOOT JACK SAFETY STOP VALVE



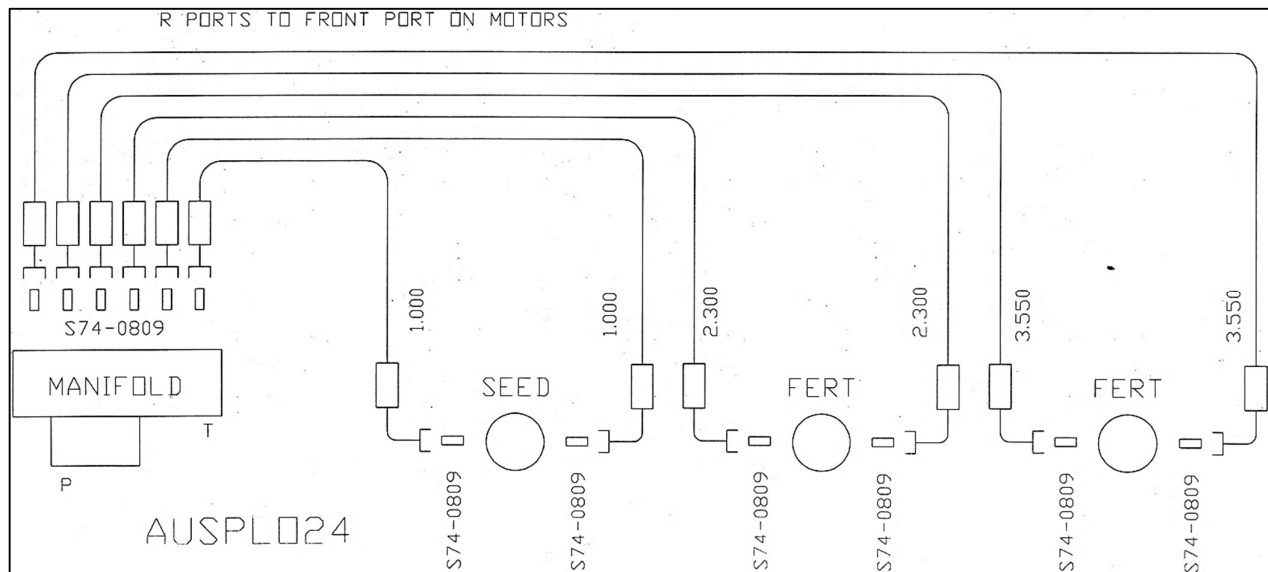
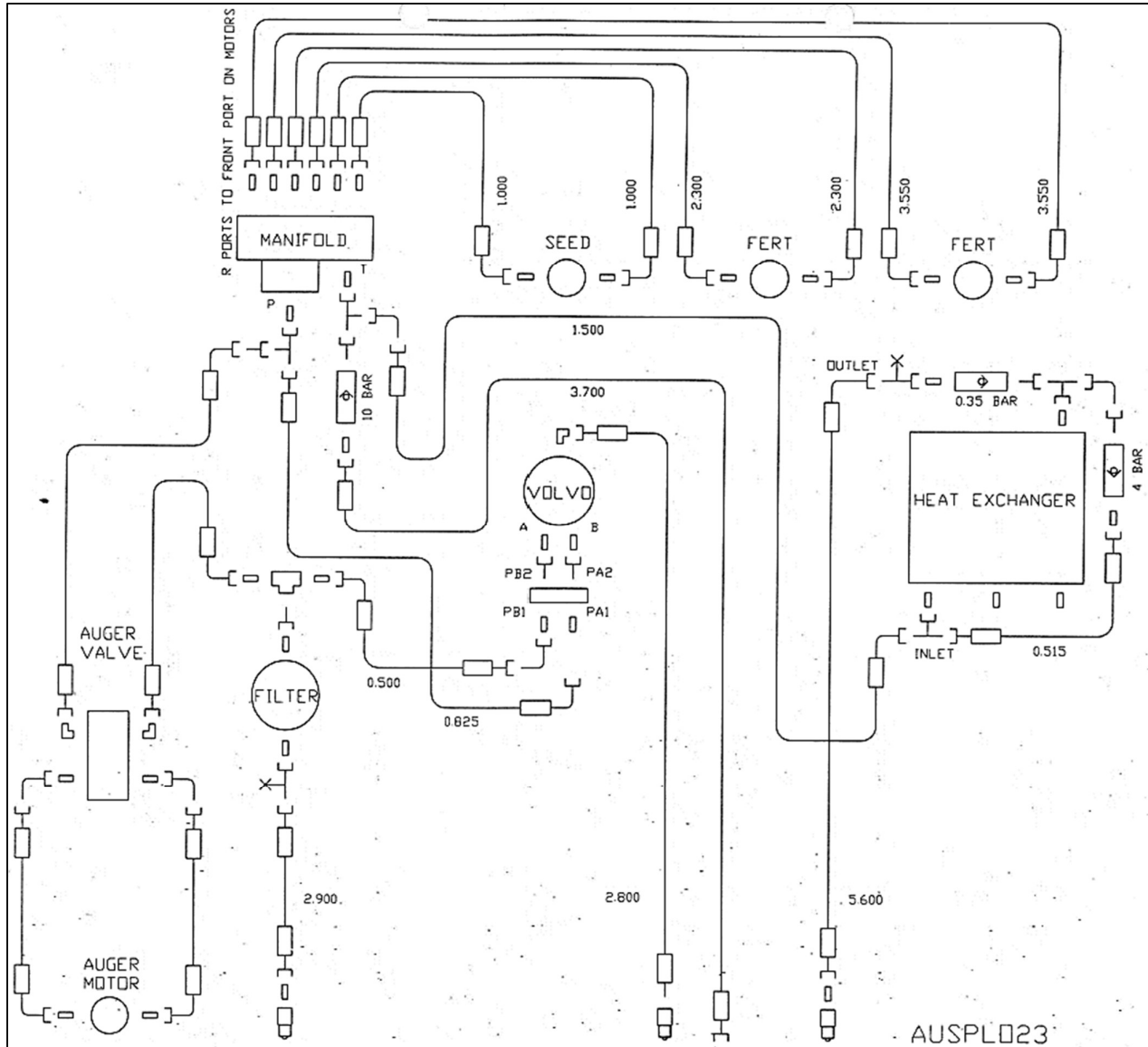
TRIO PRESSURE LINE SCHEMATIC DIAGRAM PART DETAIL

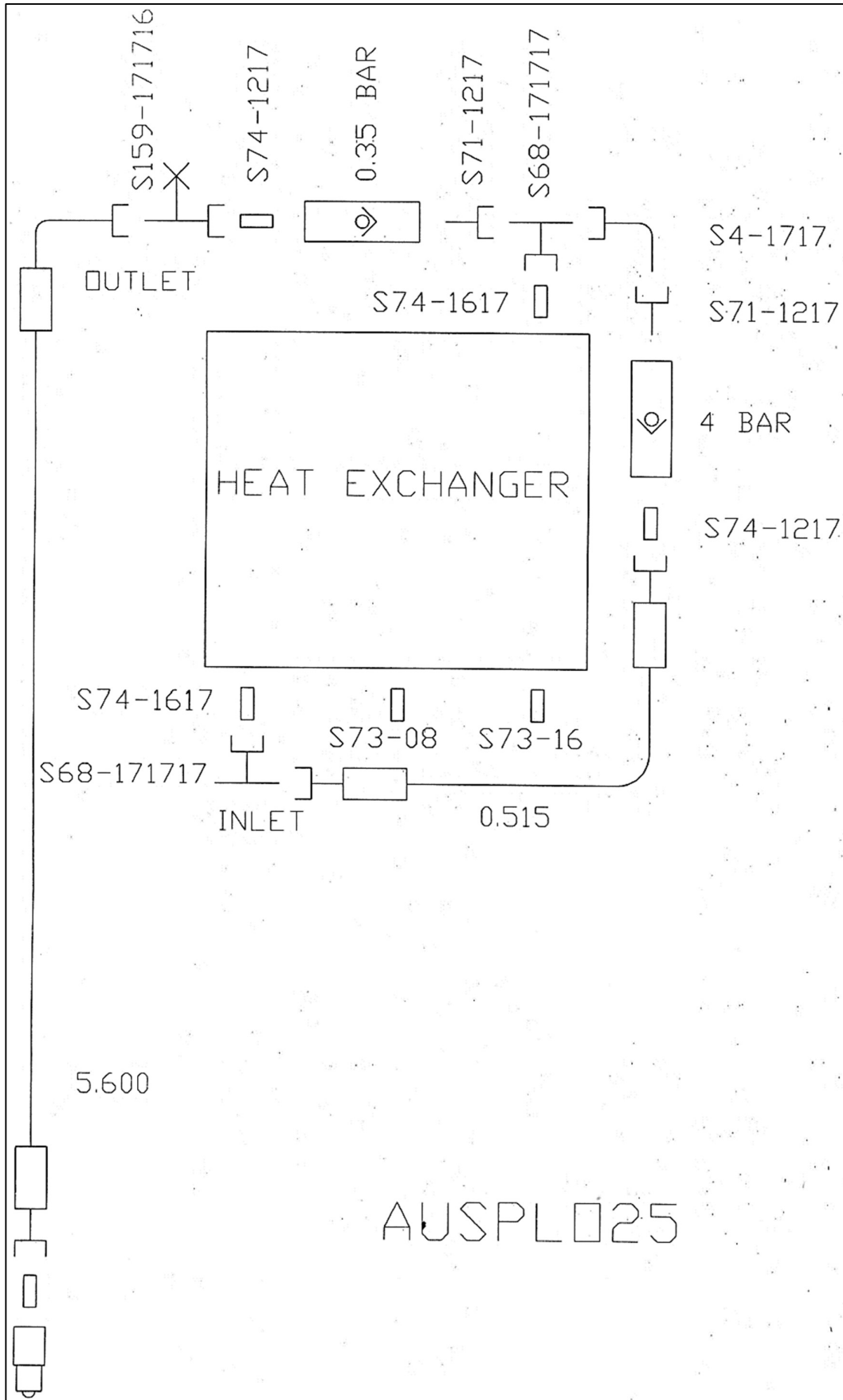
Item	Qty	Cod	Grp	PARTS NO	PART DESCRIPTION
1	2	HF	29	7142	PRESSURE TEST POINT
2	2	HF	70	7564	HP OIL FILTER FOR FAN (MICRON RATING 20µm)
3	2	HF	45	9583	FAN MOTOR-19CM ³ BENT AXIS PISTON
4	1	BM	7	27106	AIR COOLED HEAT EXCHANGER CORE (BYPASS IPB 3 BAR)
5	1			15764	HEAT EXCHANGER PRESSURE TEST POINT
6	1	HF	70	7564	OIL FILTER FOR VALVE (MICRON RATING 20µm)
7	1	BM	7	027403	ACCUMULATOR 0.75L 5 BAR PRE CHARGE GAS
8	1				MCV DIRECTIONAL CONTROL VALVE (SEE DRAWING BM-07-027612)
9	1				AUGER SAFETY STOP VALVE
10	1	BM	5	12613	AUGER MOTOR (OMR 125 HF-45-9554)-125CM ³ ORBITAL
11	1	HF	45	9191	METERING MOTOR FOR SEED (OMR 200)-200CM ³ ORBITAL
12	1	HF	45	9190	METERING MOTOR FOR FERTILIZER (OMR 100)-100CM ³ ORBITAL
13	1	HF	45	9350	LIQUID PUMP MOTOR (OMM 12.5CC SIDE PORT) ORBITAL
14	1	HF	45	9294	LIQUID AGITATION MOTOR (OMM 8CC SIDE PORT) ORBITAL
15	1	BM	7	6238	FOOT JACK CYLINDER (3.5" X 8")
16	1				FOOT JACK SAFETY STOP VALVE

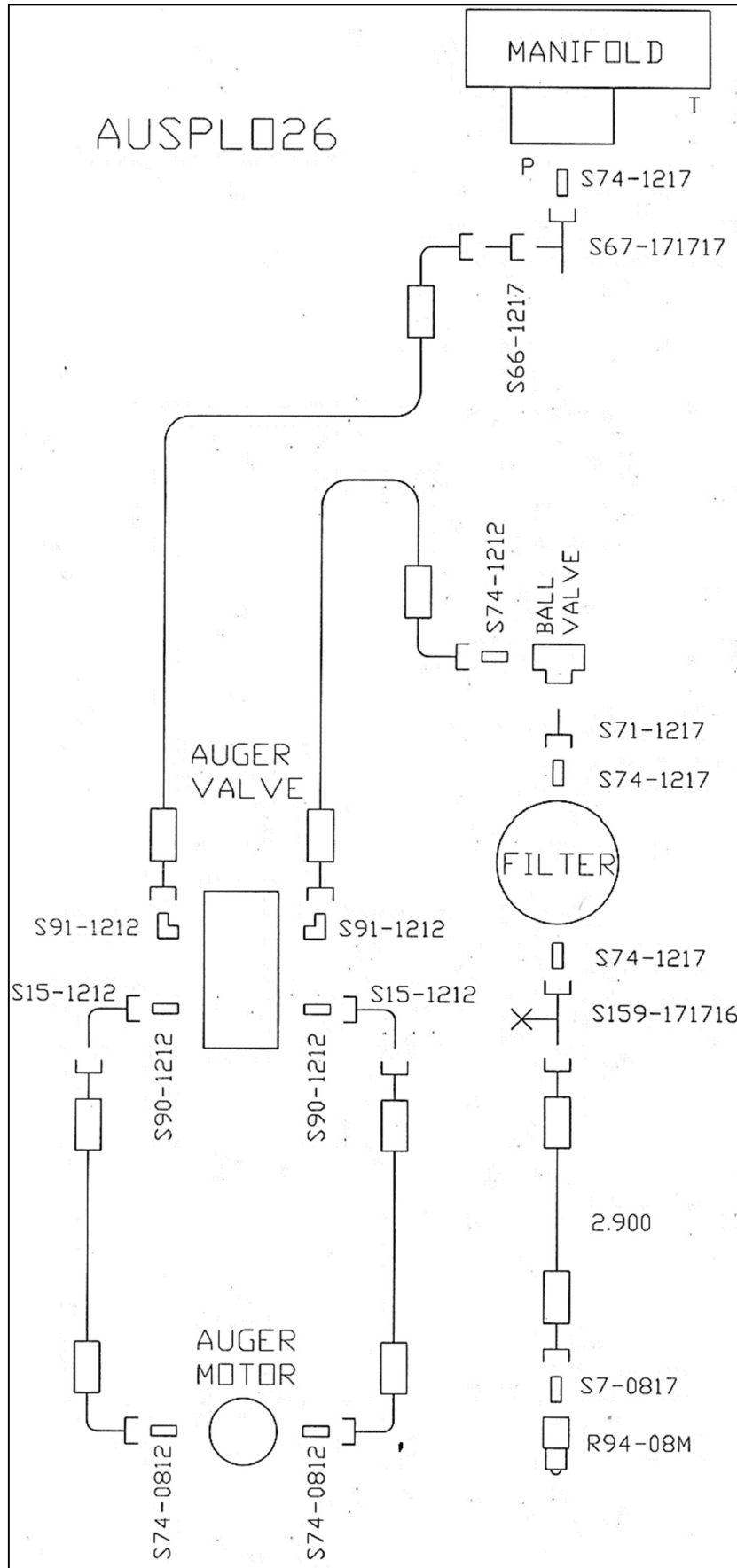


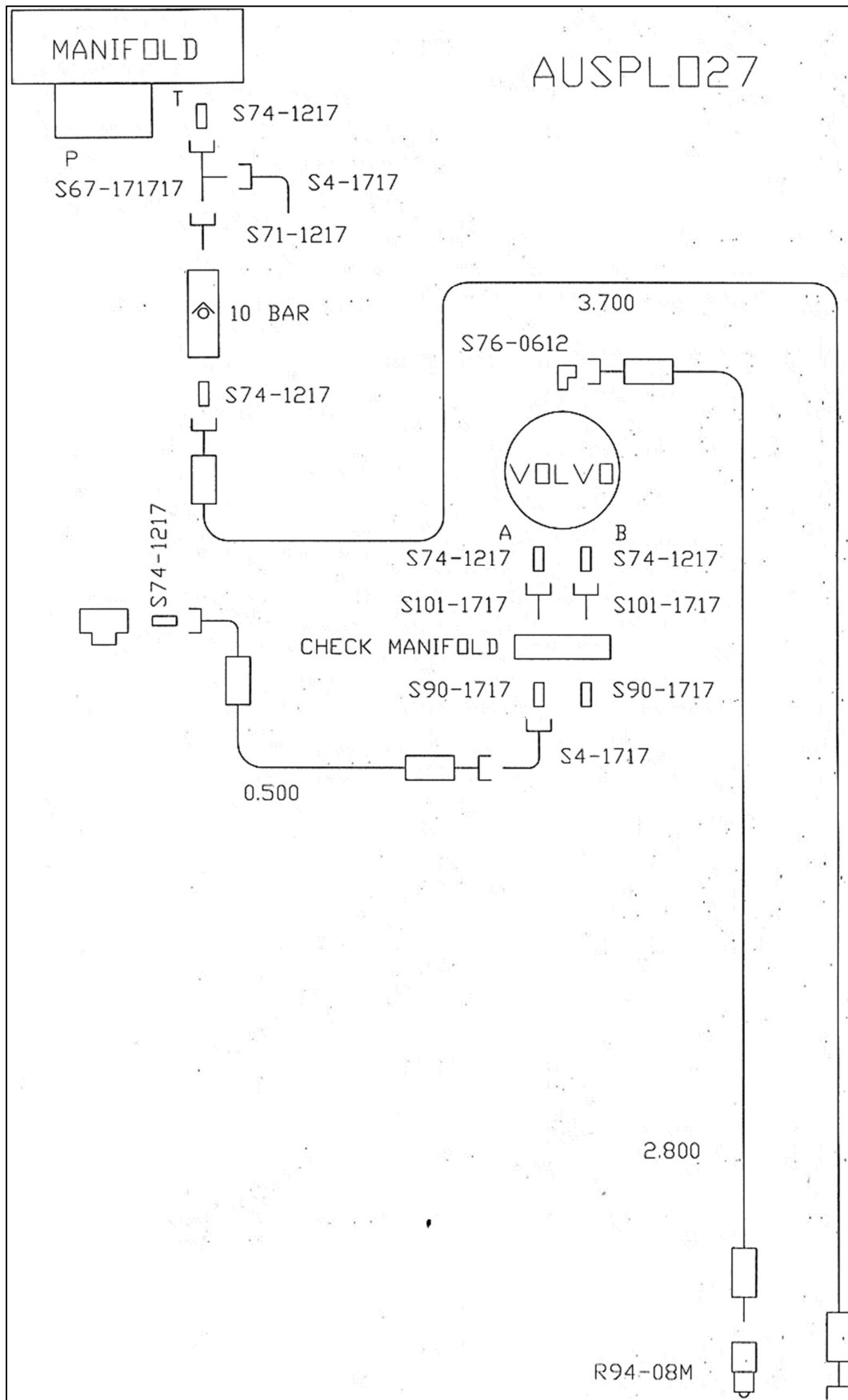
Parts detail refer drawing ausplo22

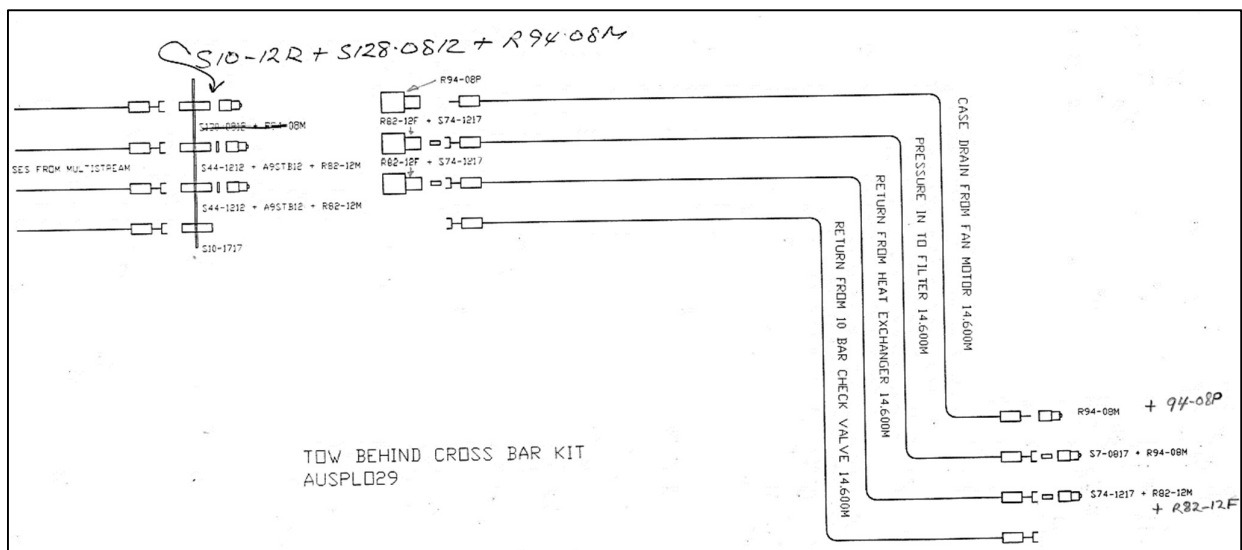
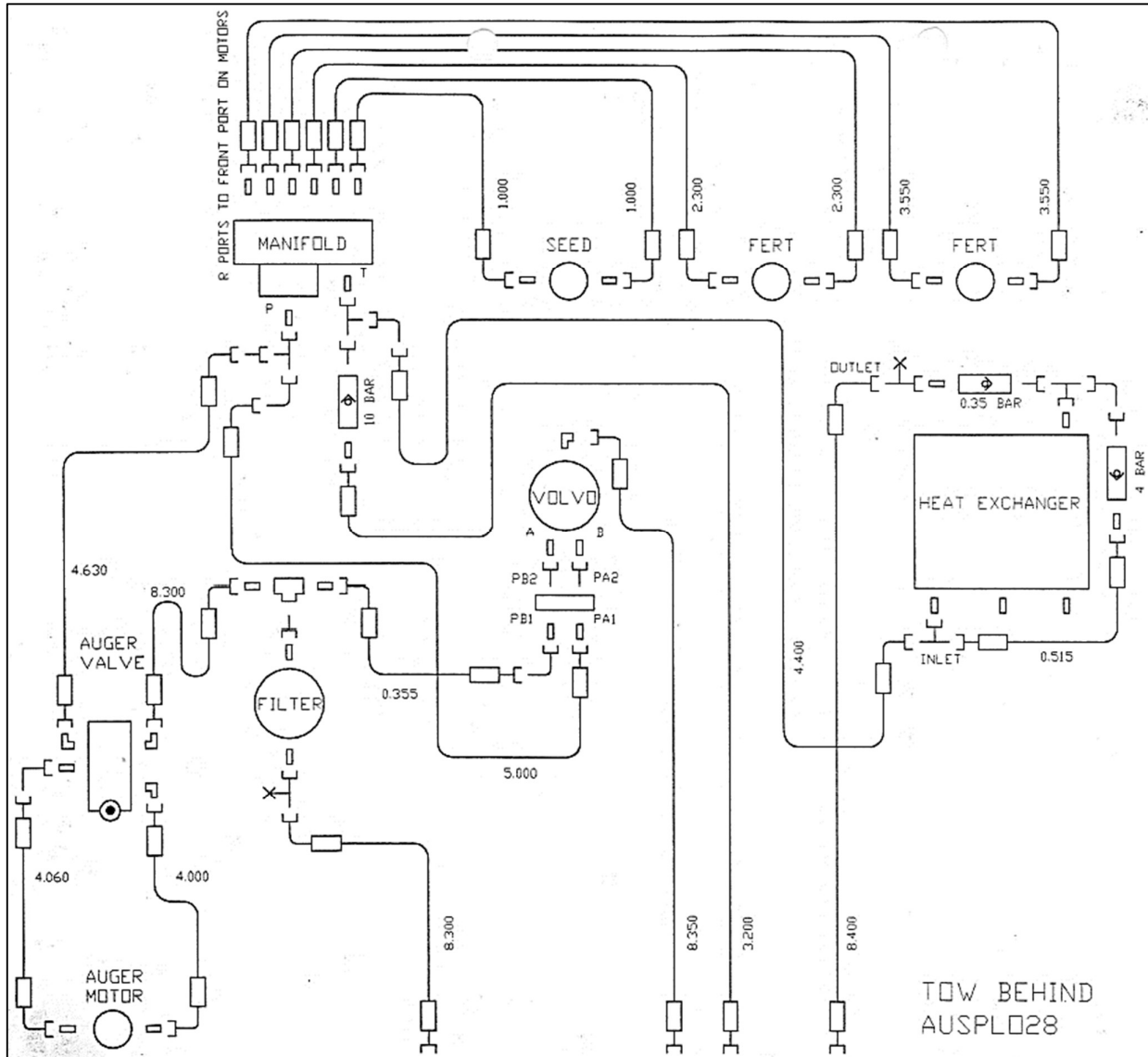
Item	Part number	Qty	Description
1.		1	High pressure filter housing
2.		1	High pressure filter element
3.		1	Ball valve
4.	OP10-M -2000- D1	1	Auger control valve
5.	D02B2-0.2N	1	Fan motor anti cavitation check valve
6.	F11-19 MBCH-K	1	Fan motor
7.	L06A3-60-60-N	1	Primary flow divider
8.	L04A3-25-25-N	2	Secondary flow divider
9.	HP04C21-1-5-NL	3	Proportional flow control valve
9a	CA-P-012-D	3	12 V-DC coil
9b	GDM2011	3	Electrical connector plug
10.	R04E3-10.0N	3	Control element
11.		1	Heat exchanger
12.	EPM-100-COD	1	Auger motor
13.	OMP-100	2	Fertiliser motor
14.	OMP-200	1	Seed motor
15.		1	Check valve 5.0 bar
16.		1	Check valve 10.0 bar
17.		1	Check valve 0.35 bar

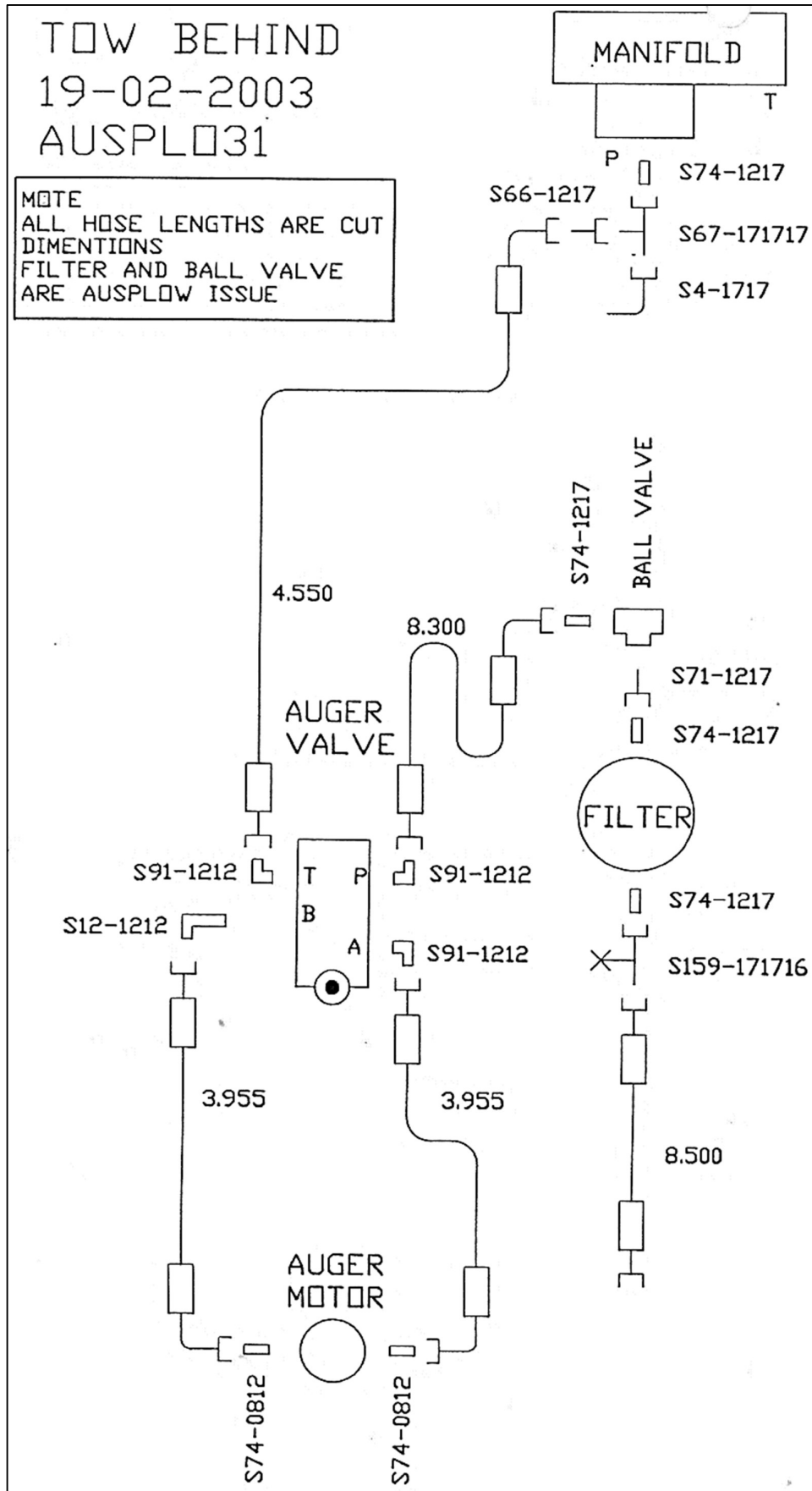


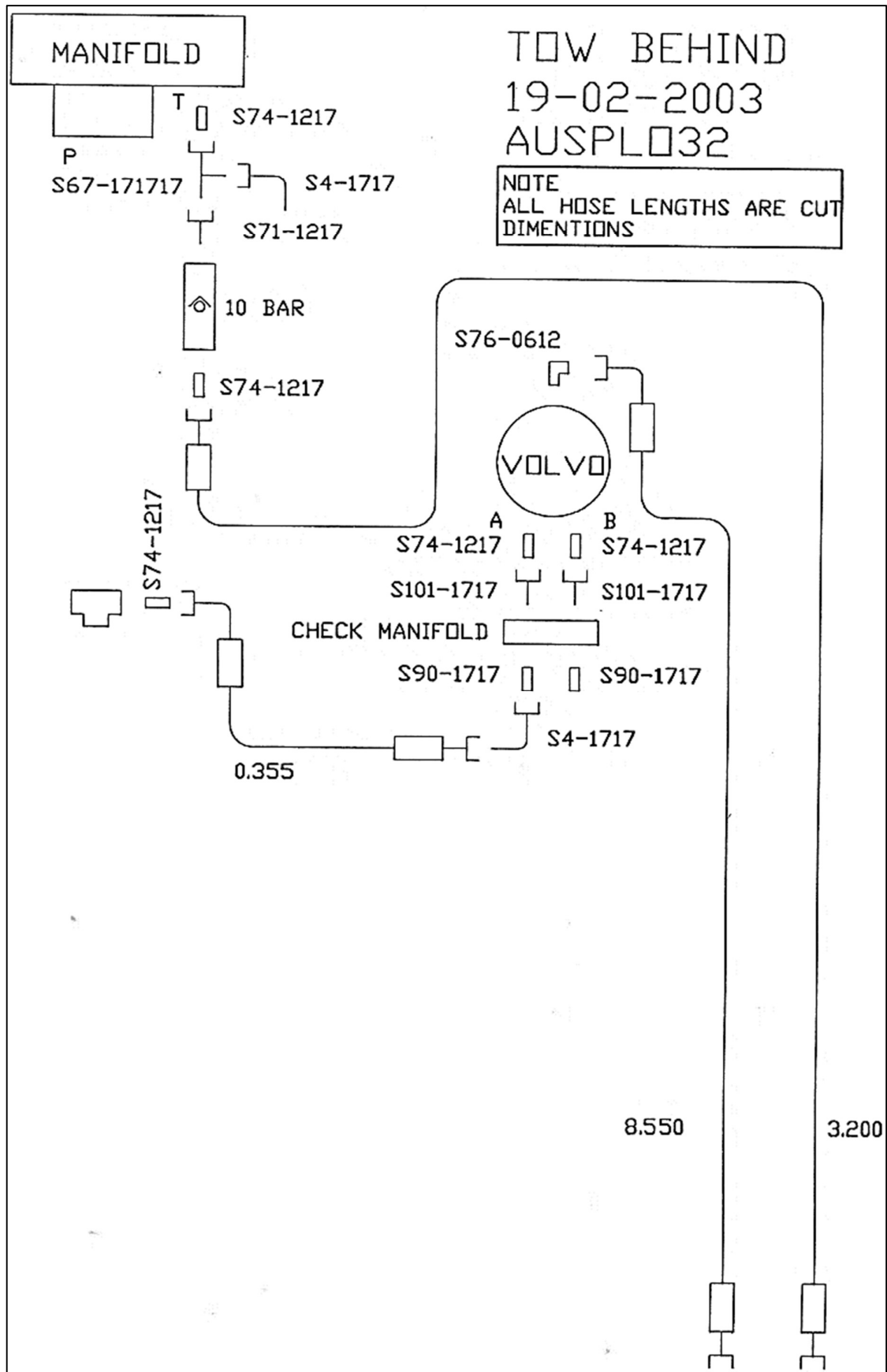


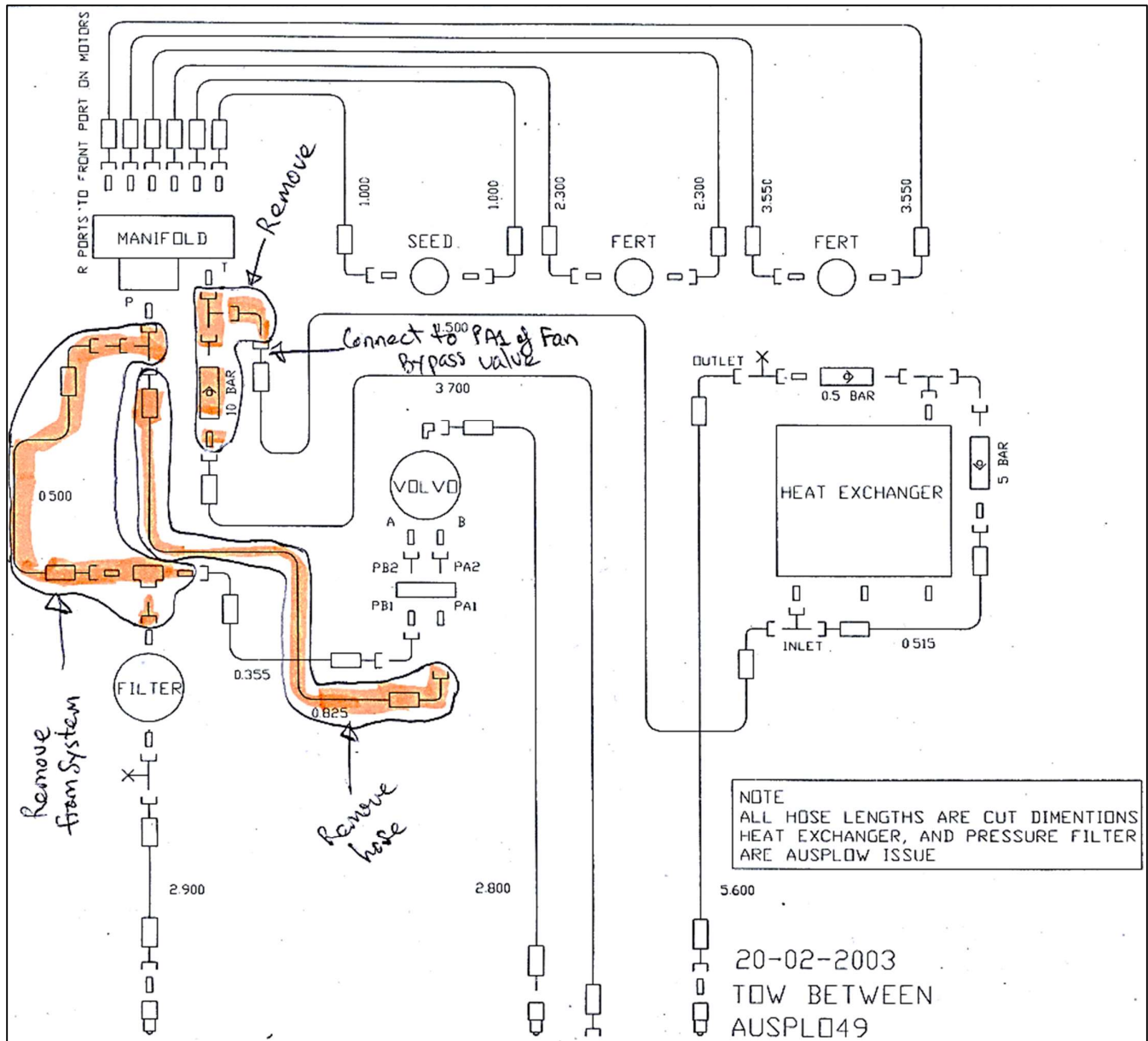








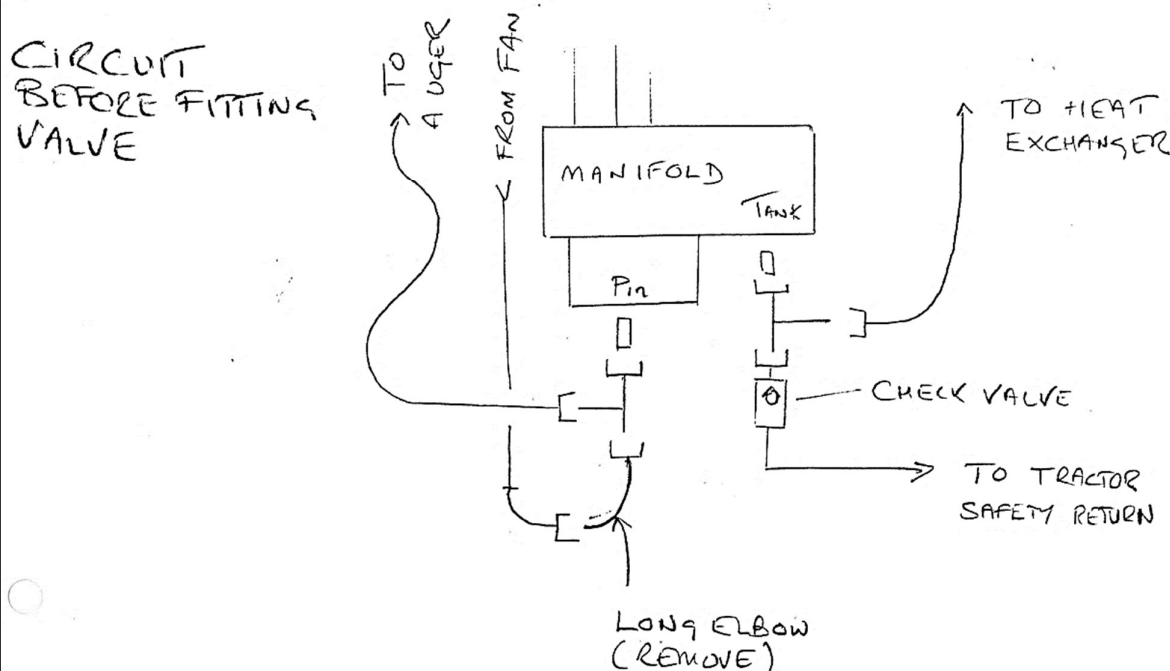




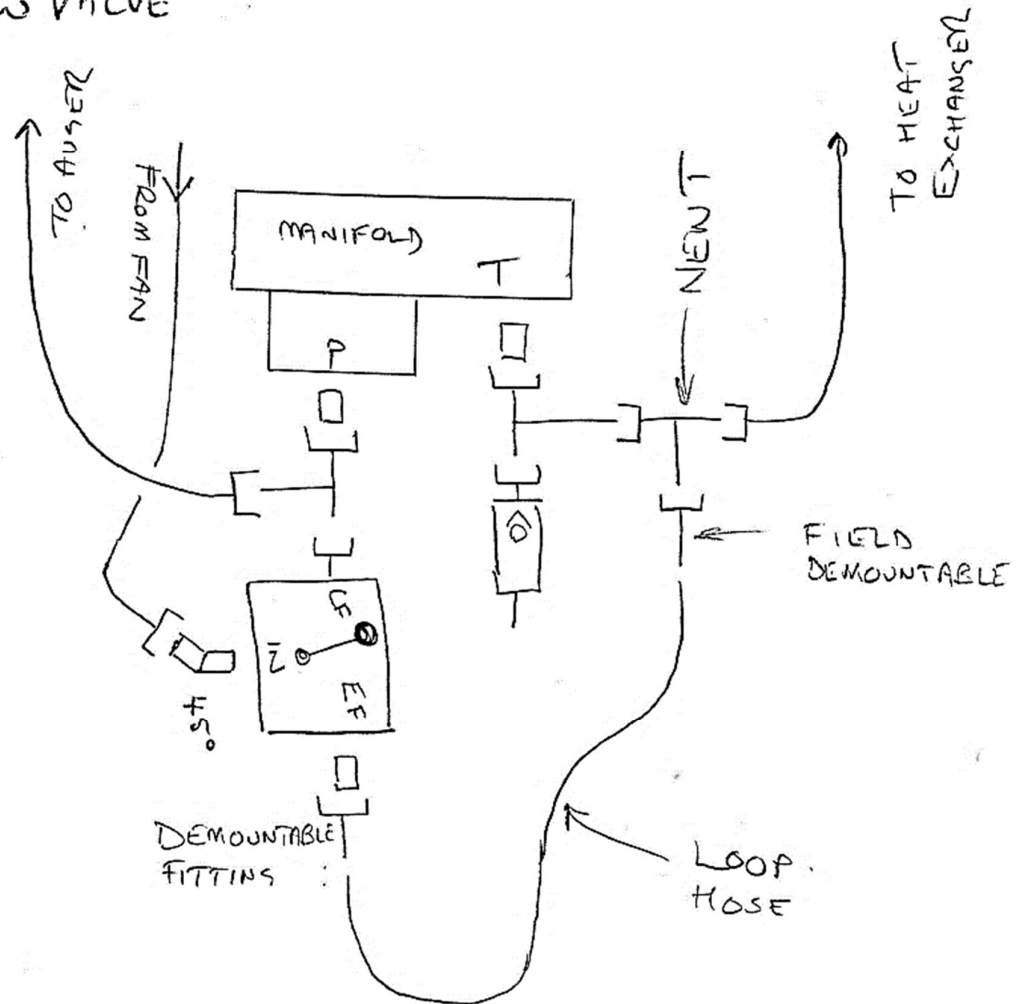
FITTING PRIORITY FLOW VALVE.

1. PUT SYSTEM BACK AS NORMAL WITH THE BLOCK USING THE RETURN OIL FROM THE FAN.
2. FIT THE PRIORITY FLOW VALVE AS SHOWN IN DRAWING AND PHOTOS.
3. SET PRIORITY VALVE INITIALLY TO 2 AND START HYDRAULIC OIL.
4. RUN SETUP ON BIN 2 OR 3 AND FOLLOW INSTRUCTIONS AND RECORD "MAX PPM". IF THE FIGURE IS LESS THAN 3200 INCREASE FLOW ON PRIORITY VALVE TO 3 SAY AND TRY AGAIN UNTIL 3200 IS REACHED. NOTE THE FARMSCAN MANUAL SHOWS HOW TO RUN THE SETUP PROGRAM.
5. DO NOT GO TOO FAR AS WE WANT TO JUST REACH THIS MAX PPM (PULSES PER MINUTE) TO KEEP THE OPERATING PRESSURE AS LOW AS POSSIBLE.
6. THE PPM FIGURE OF 3200 CORRESPONDS TO 10.6 LITRES EACH CHANNEL OR 42.4 LITRES OVERALL WHICH IS THE MINIMUM TO ACHIVE THE CORRECT RATES ON THE BLOCK.

MANIFOLD ARRANGEMENT - PRIORITY FLOW CONTROL

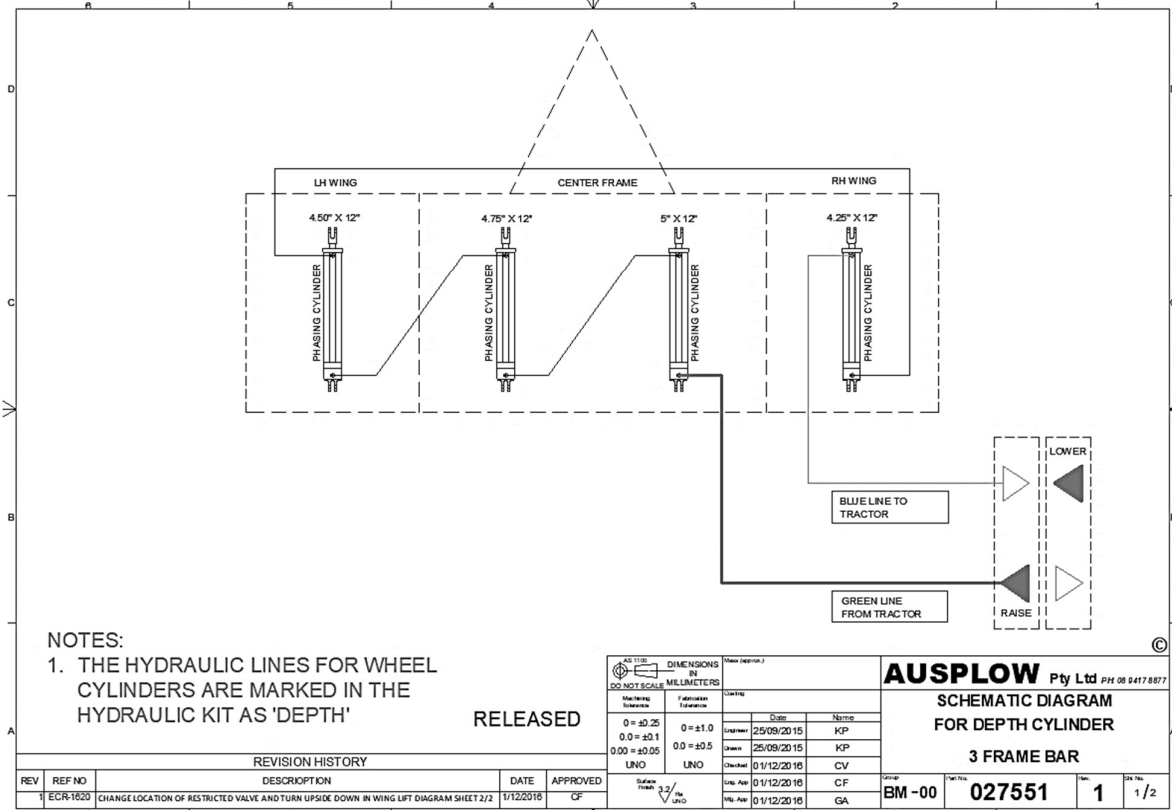
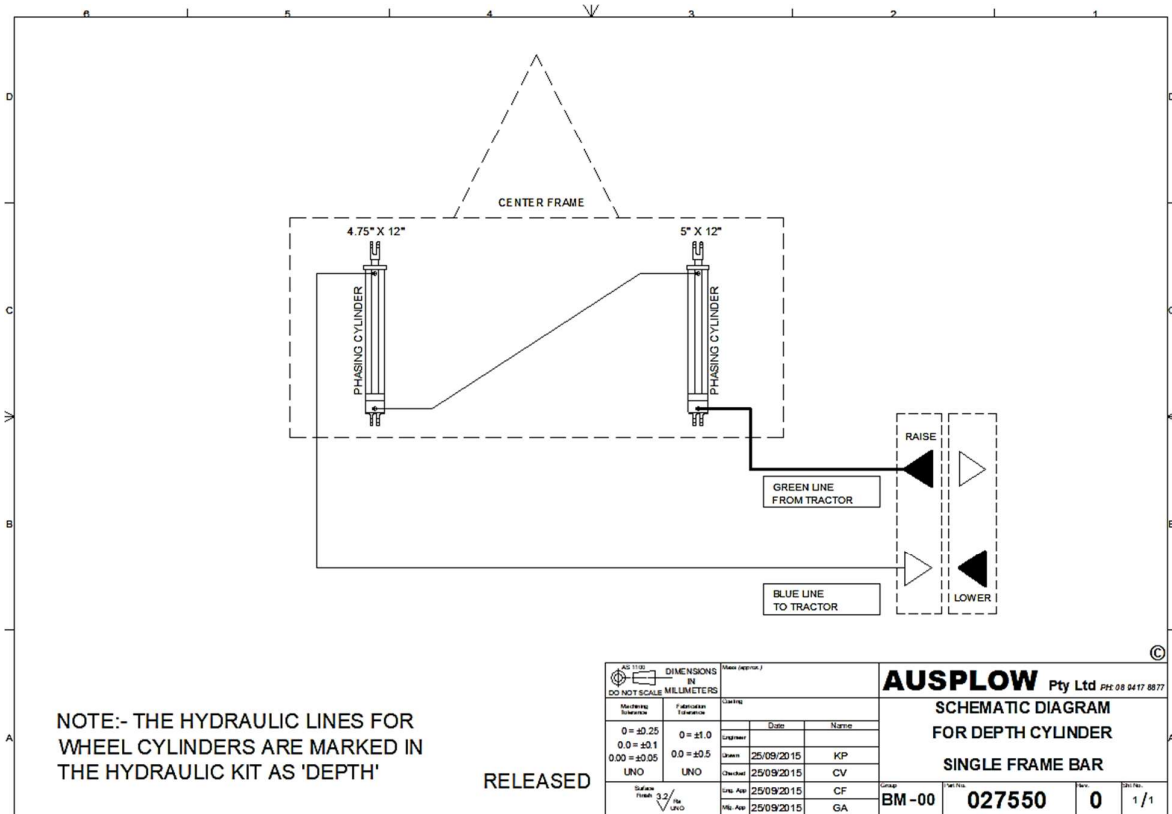


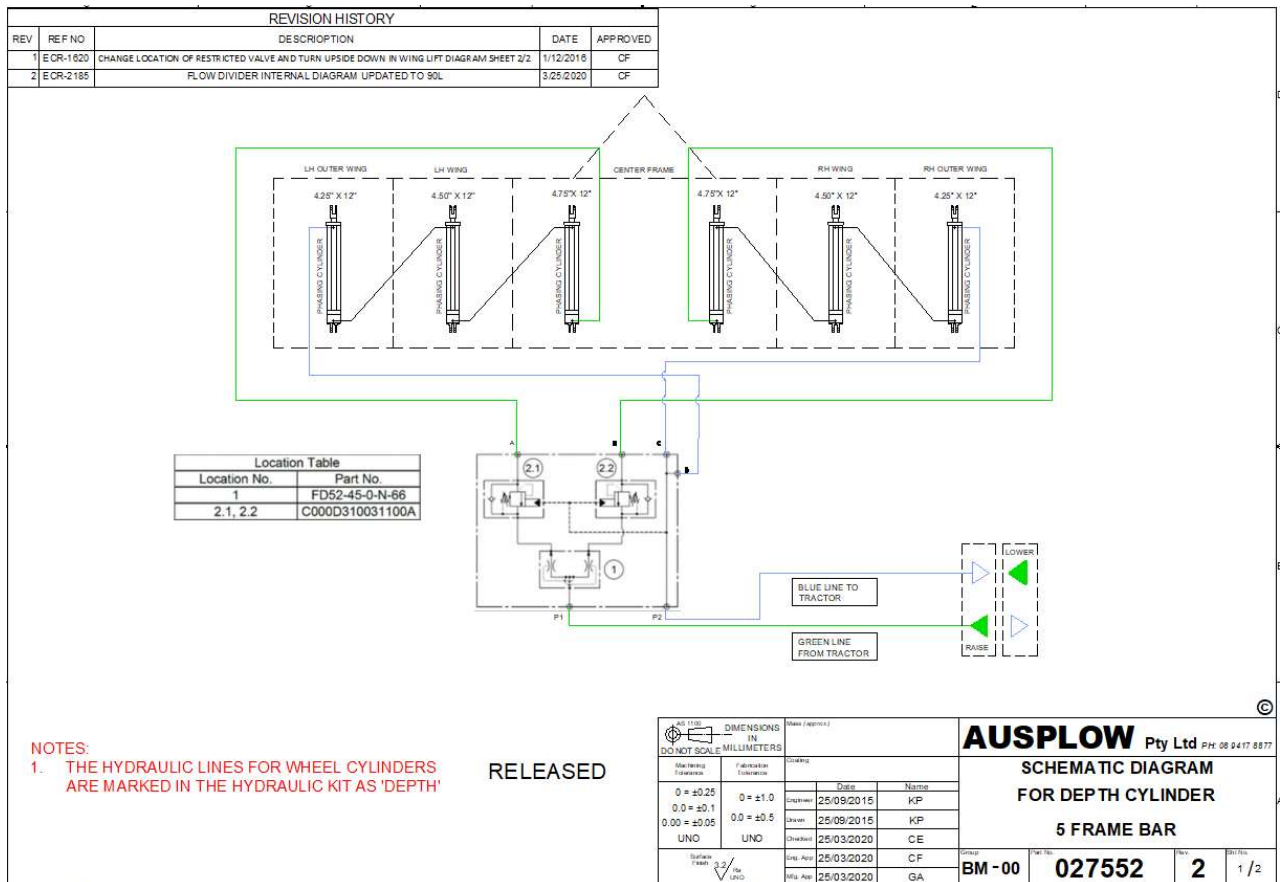
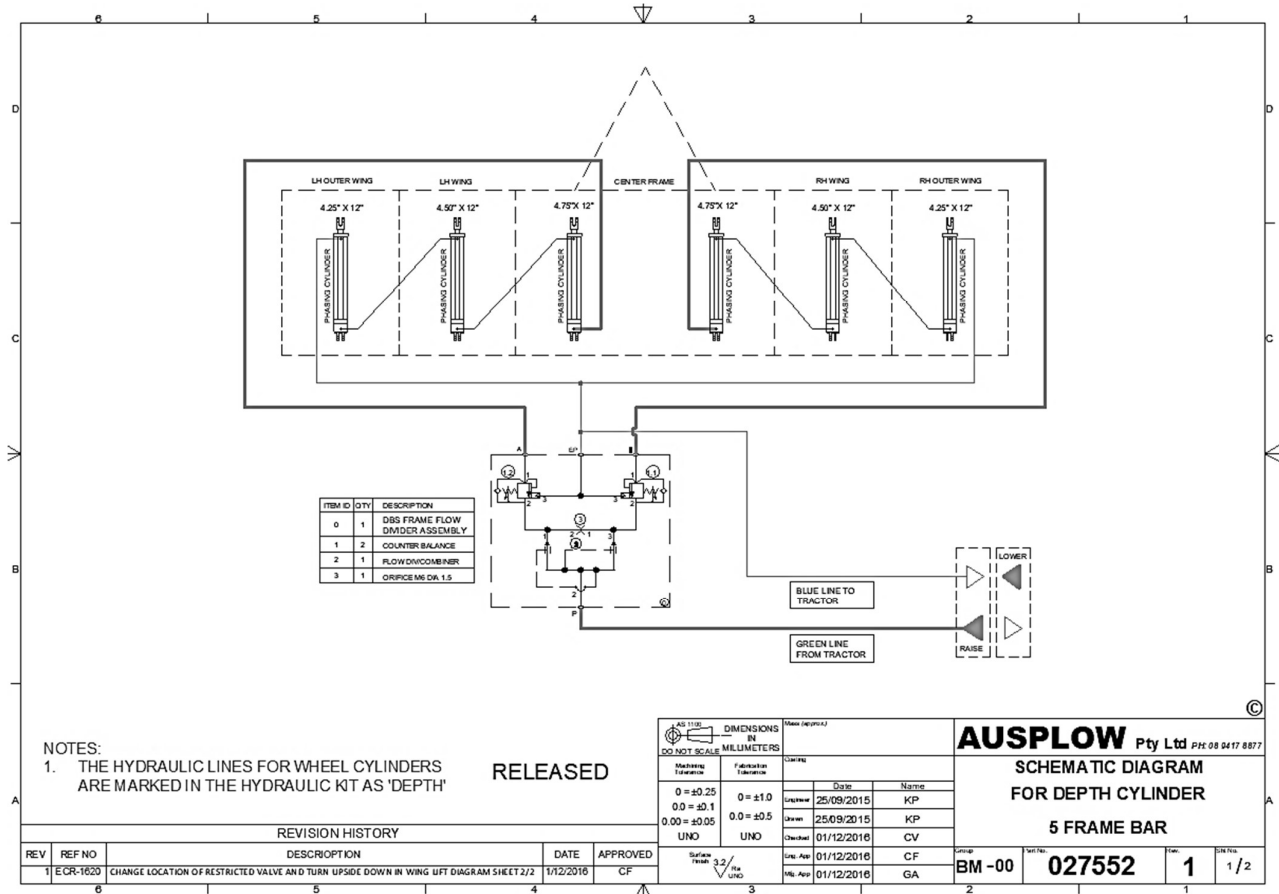
CIRCUIT
AFTER FITTING
PRIORITY FLOW VALVE

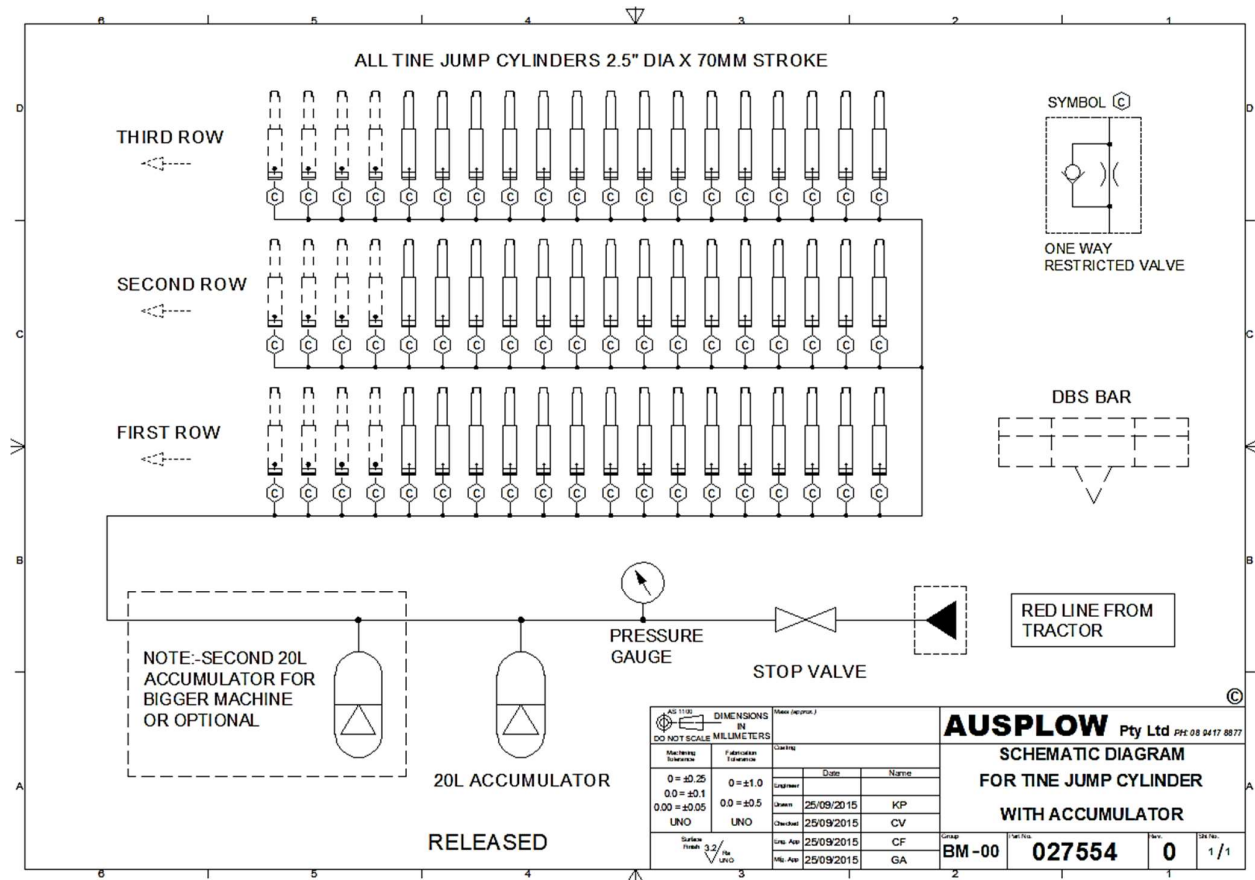


3.2 DBS AUSEEDER

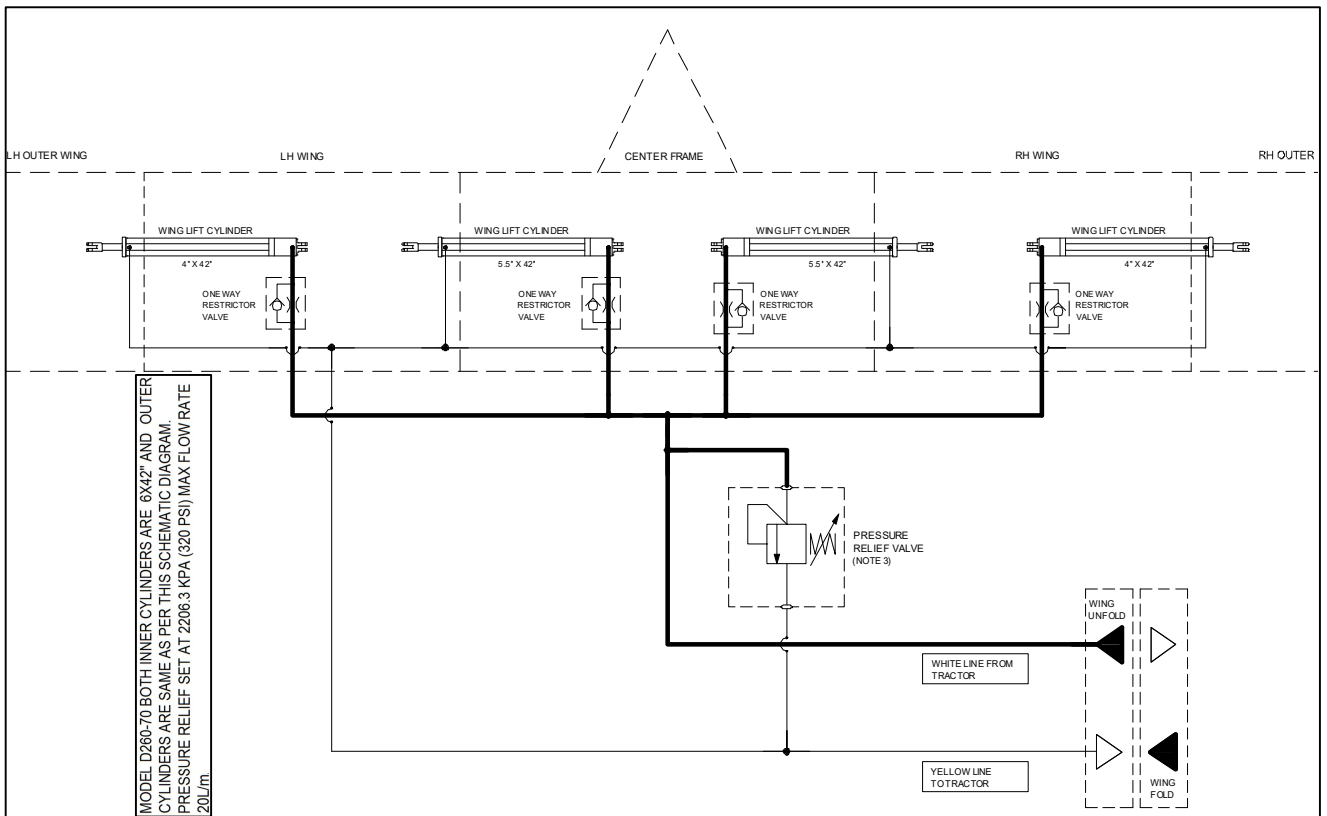
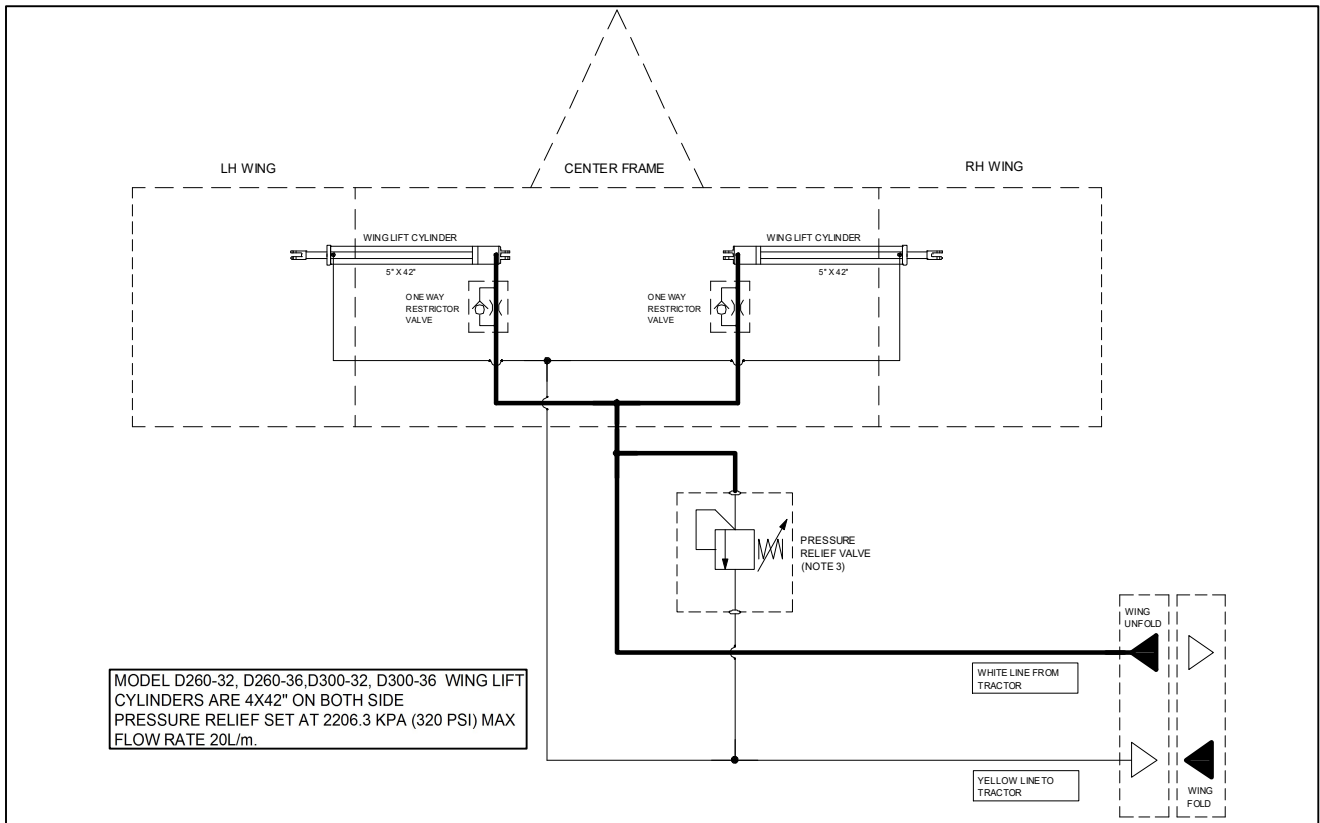
3.2.1 PHASING CYLINDER





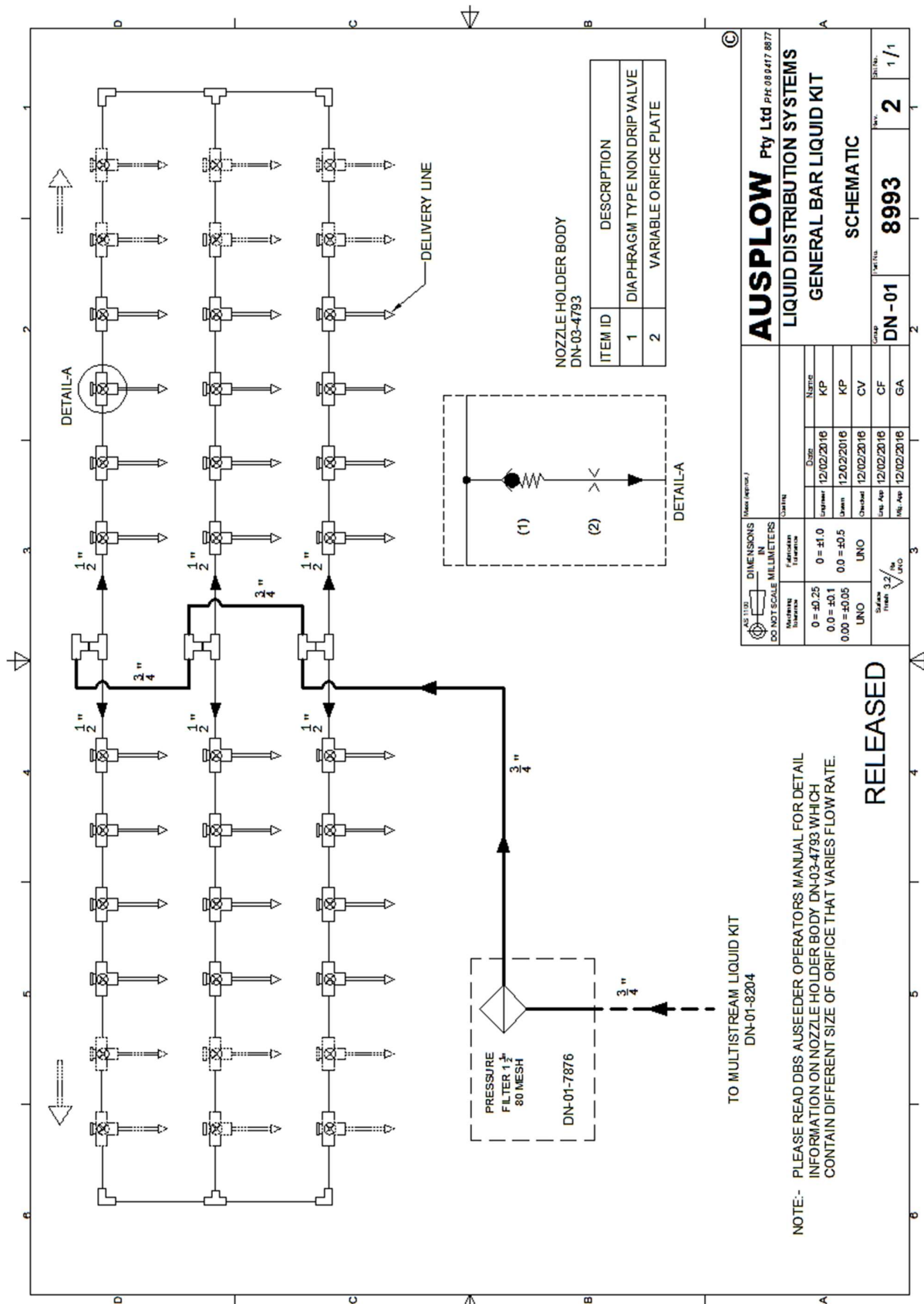


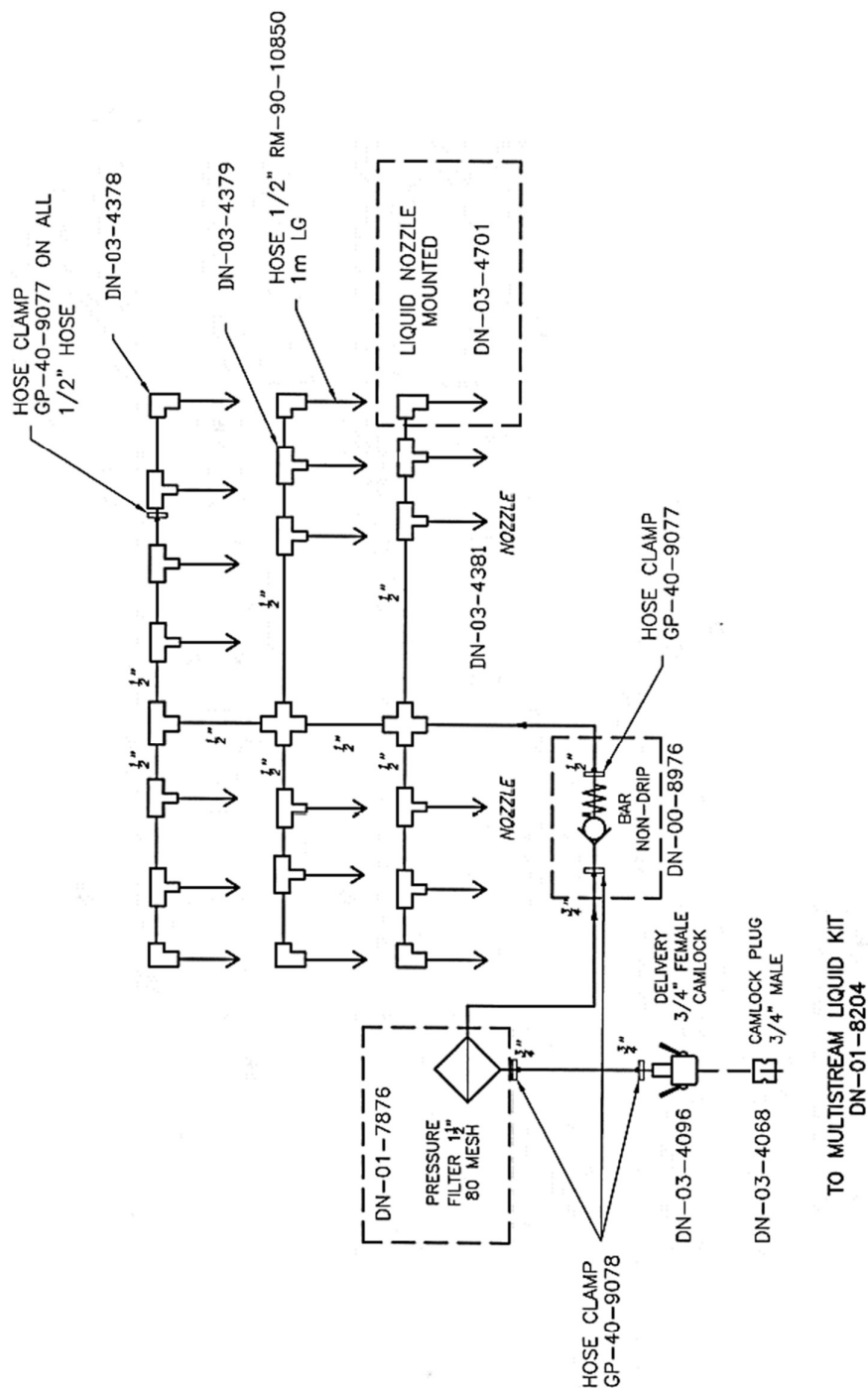
3.2.2 WING FOLDING CYLINDER





4.2 DBS AUSEEDER





		DIMENSION IN MILLIMETERS		Material:		AUSPLOW Pty Ltd				PH: 08 9417 8877	
Machining Tolerance		Fabrication Tolerance		Coatings:		LIQUID DISTRIBUTION SYSTEMS GENERAL BAR LIQUID KIT 2005 SCHEMATIC					
$0 = \pm 0.25$ $0.0 = \pm 0.1$ $0.00 = \pm 0.05$ UON		$0 = \pm 1.0$ $0.0 = \pm 0.5$ UON									
						Drawn:		12 July 2005		Name	
						Checked:		12 July 2005		SR	
						Eng App:		12 July 2005		RAW	
						Mfg App:		12 July 2005		RAW	
Surface Finish		Scale		A3		Rev No.		1		Sheet No.	
										1/2	

5.0 FRAME

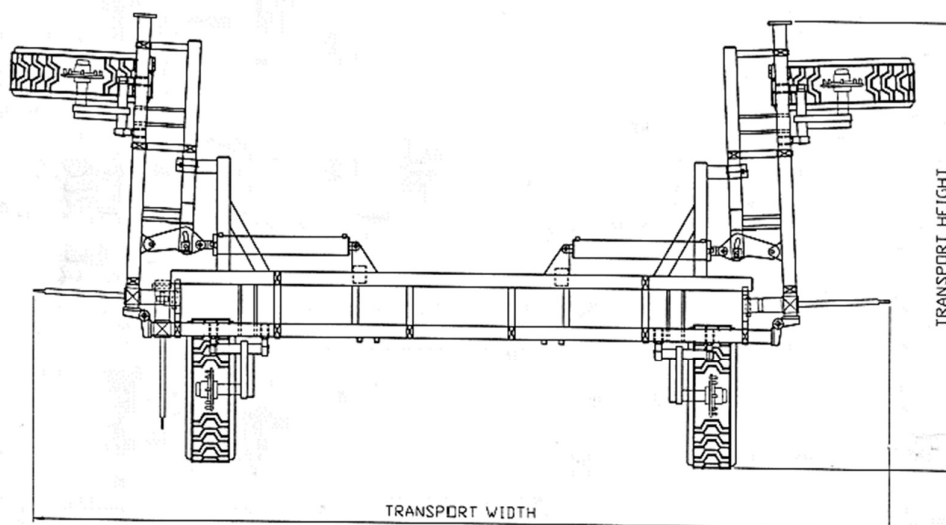
5.1 DBS AUSEEDER S-SERIES

DBS AUSEEDER
PRECISION MINIMUM TILLAGE

S SERIES

- ✓ Working widths from 6.24m (20' 6") - 10.92m (35' 10")
- ✓ Super single lug tyres
- ✓ Safety check valve on wingfold
- ✓ Designed and built by Ausplow

36-260S
Illustrated

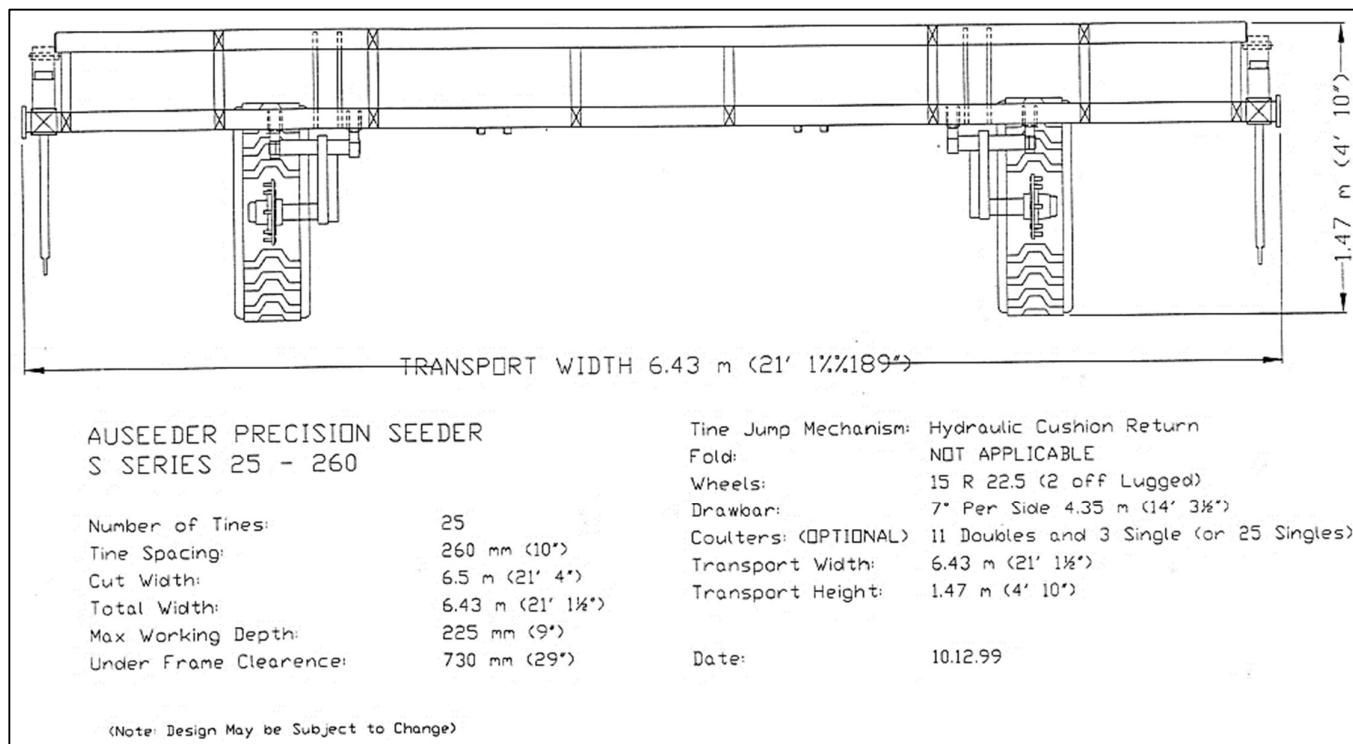
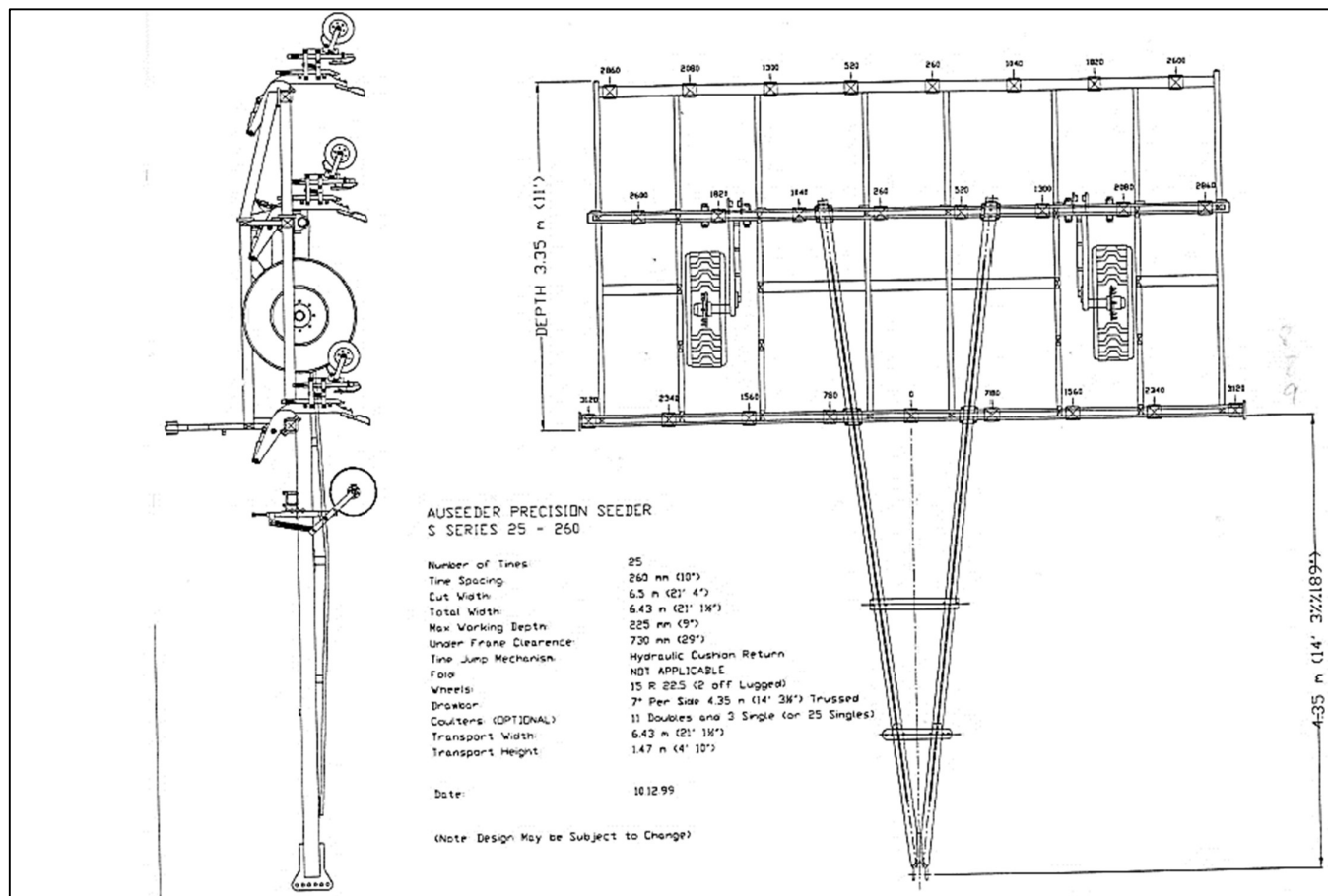


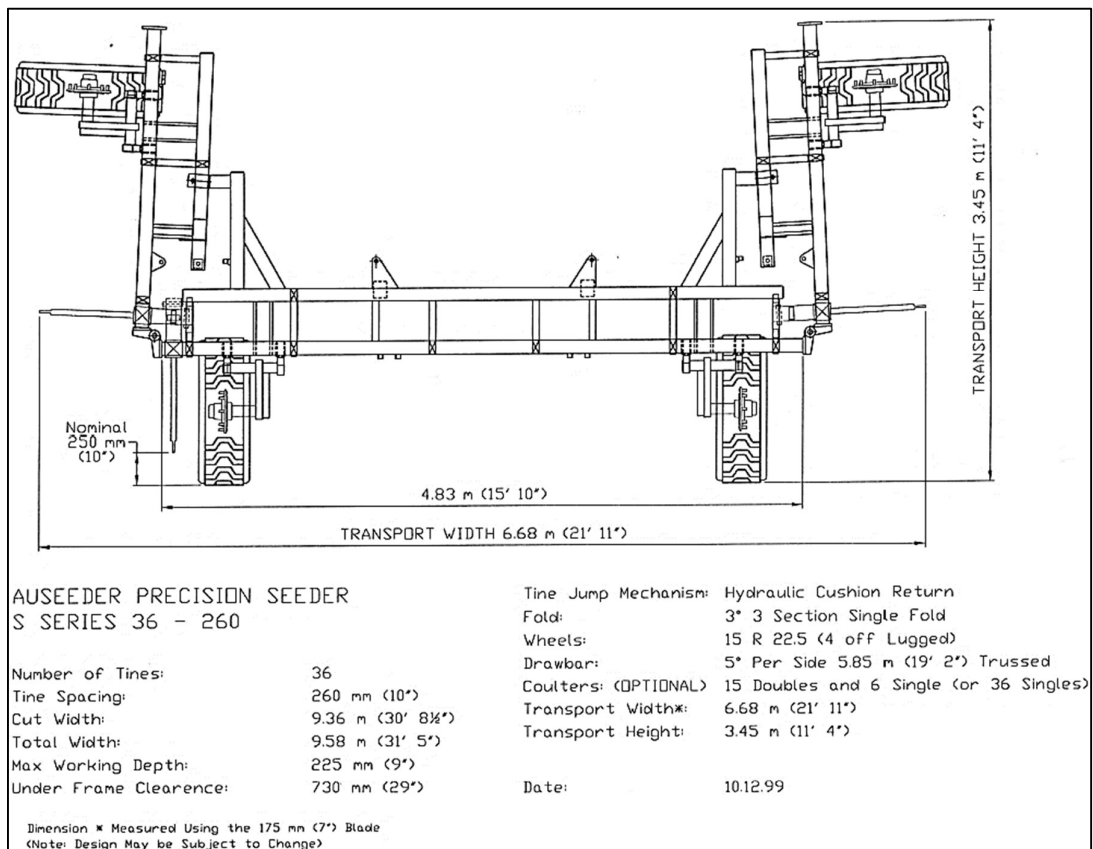
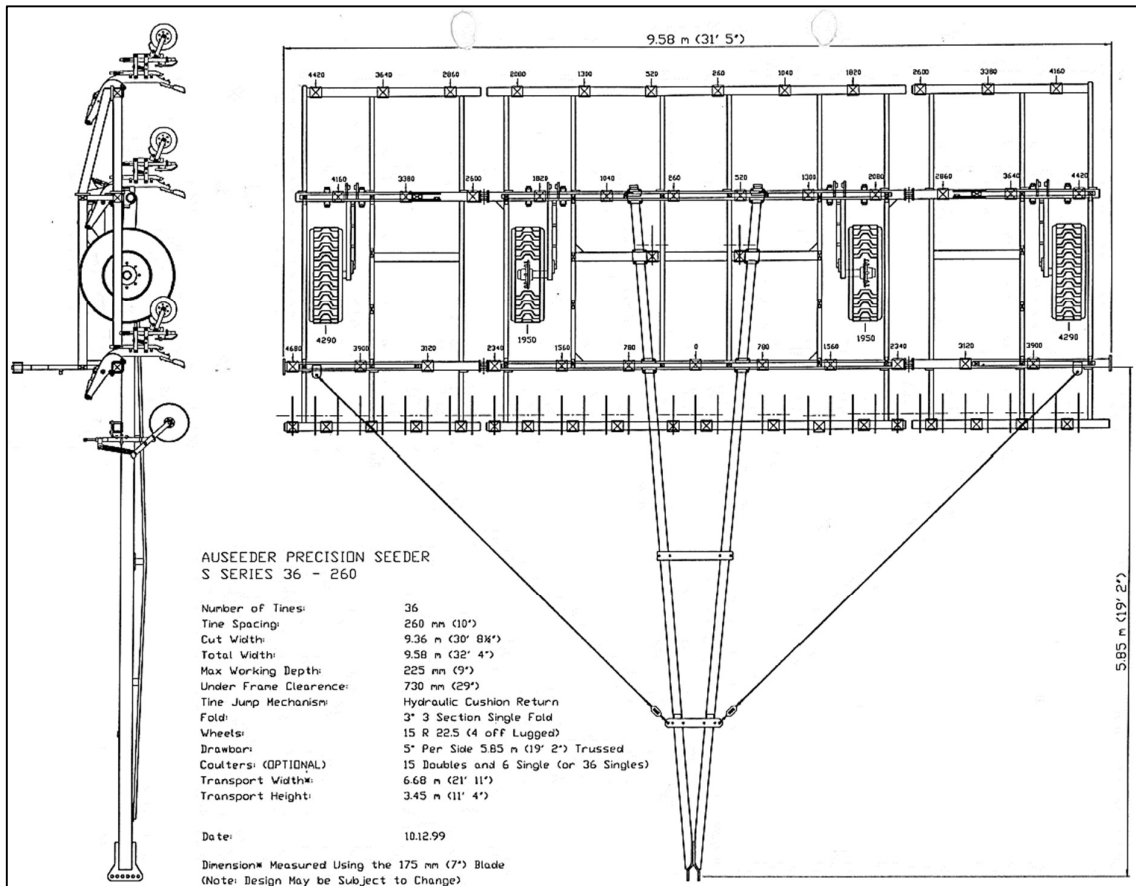
Specifications

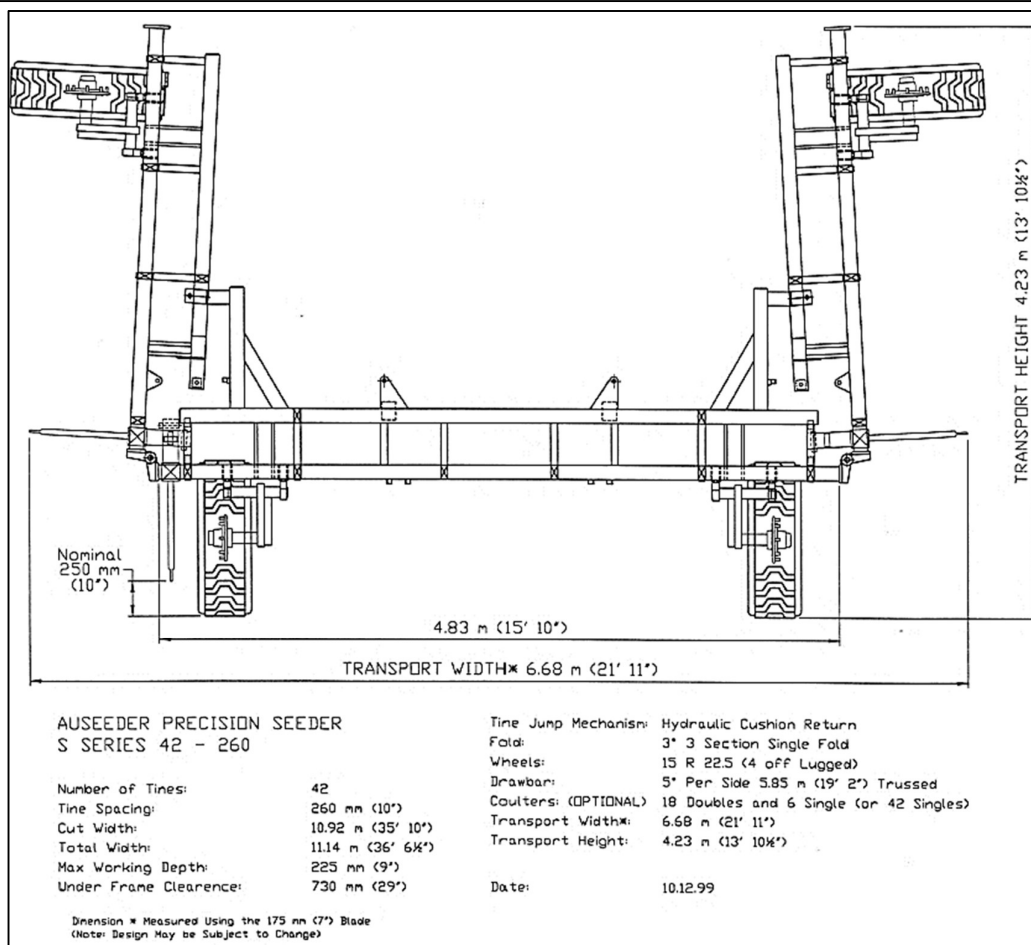
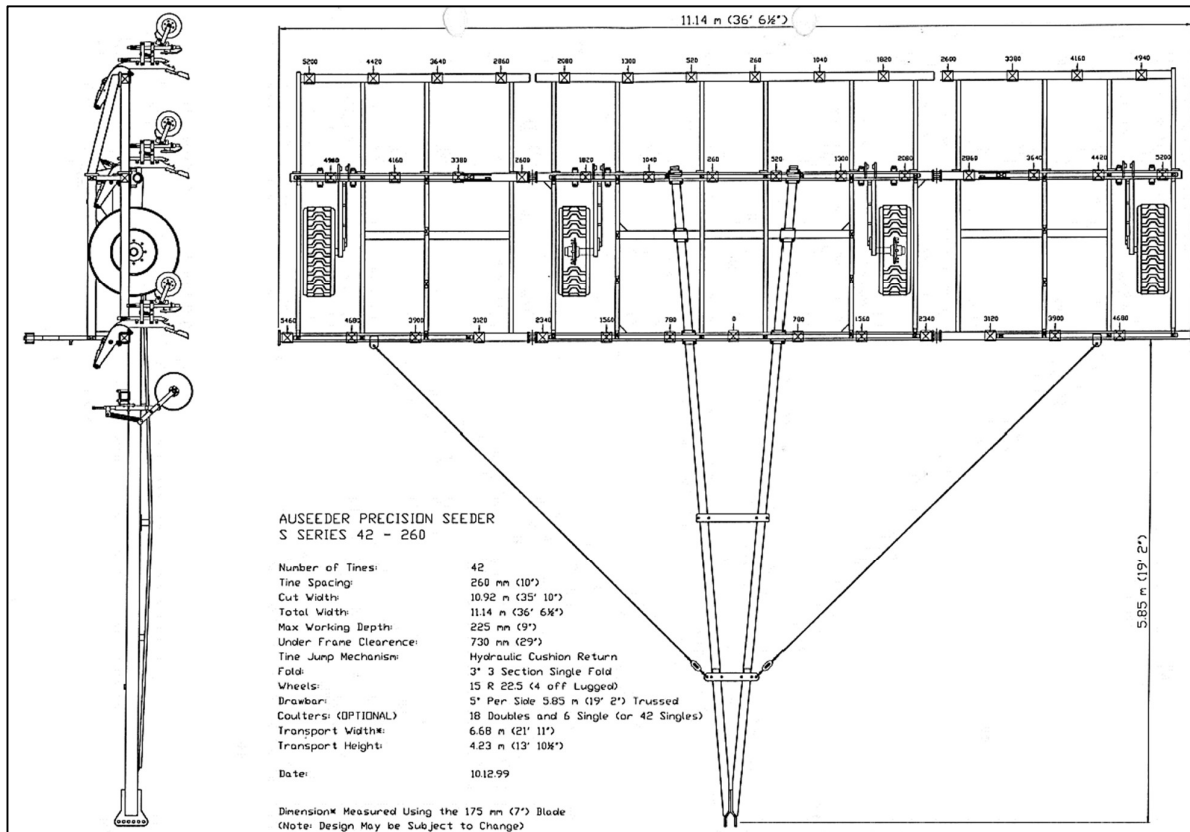
	Width of Cut m	Transport Width	Transport Height	Minimum Power	Number of Tines	Tine Spacing	No. Wheels
24-260 S	6.24m 20' 6"	6.43m 20' 10"	n/a	125 kW 168 hp	24	260mm	2
36-260 S	9.36m 30' 8"	6.68m 21' 11"	3.45m 11' 4"	188 kW 252 hp	36	260mm	4
42-260 S	10.92m 35' 10"	6.68m 21' 11"	4.23m 13' 11"	219 kW 294 hp	42	260mm	4

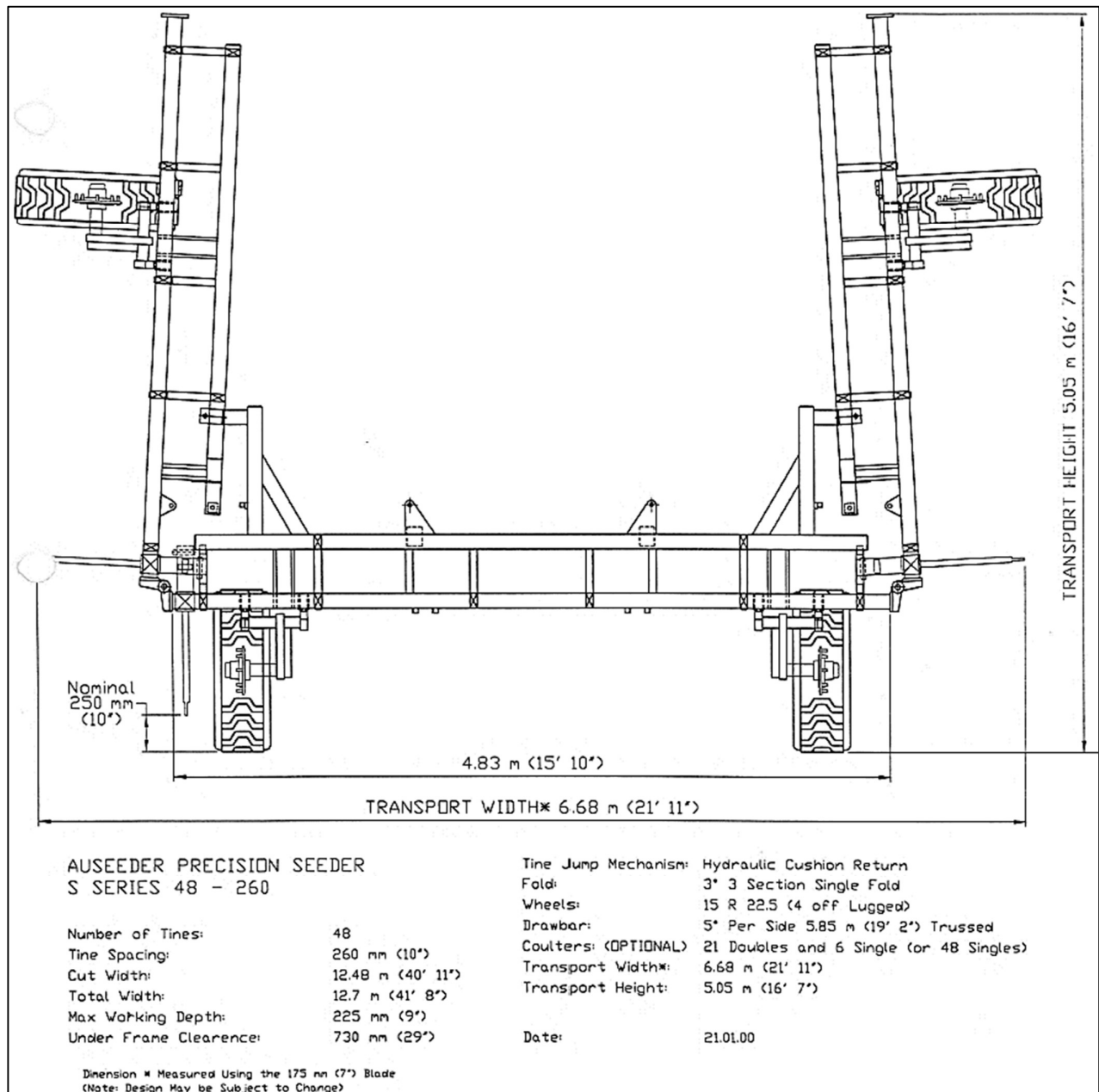
Models available with 300mm spacing
Extension kits available on some models
Coulters available as option

Engine power required is approximately 5Kw (7hp) per tine

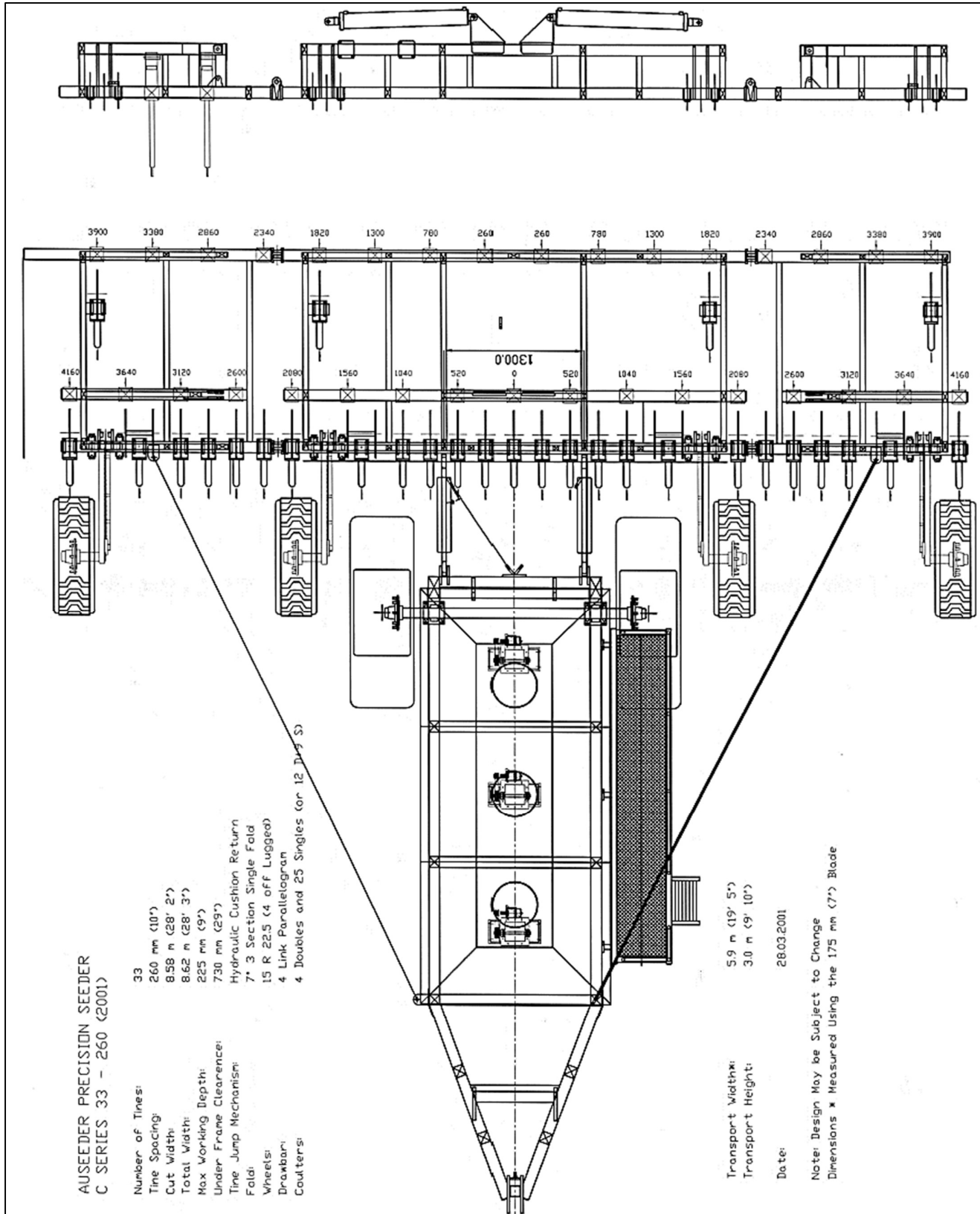








5.2 DBS AUSEEDER C-SERIES



AUSEEDER PRECISION SEEDER C SERIES 35 - 300 (2001)

Number of Tines:

Tine Spacing:

Cut Width:

Total Width:

Max Working Depth:

Under Frame Clearance:

Tine Jump Mechanism:

Fold:

Wheels:

Drawbar:

Coulters:

Transport Width:

Transport Height:

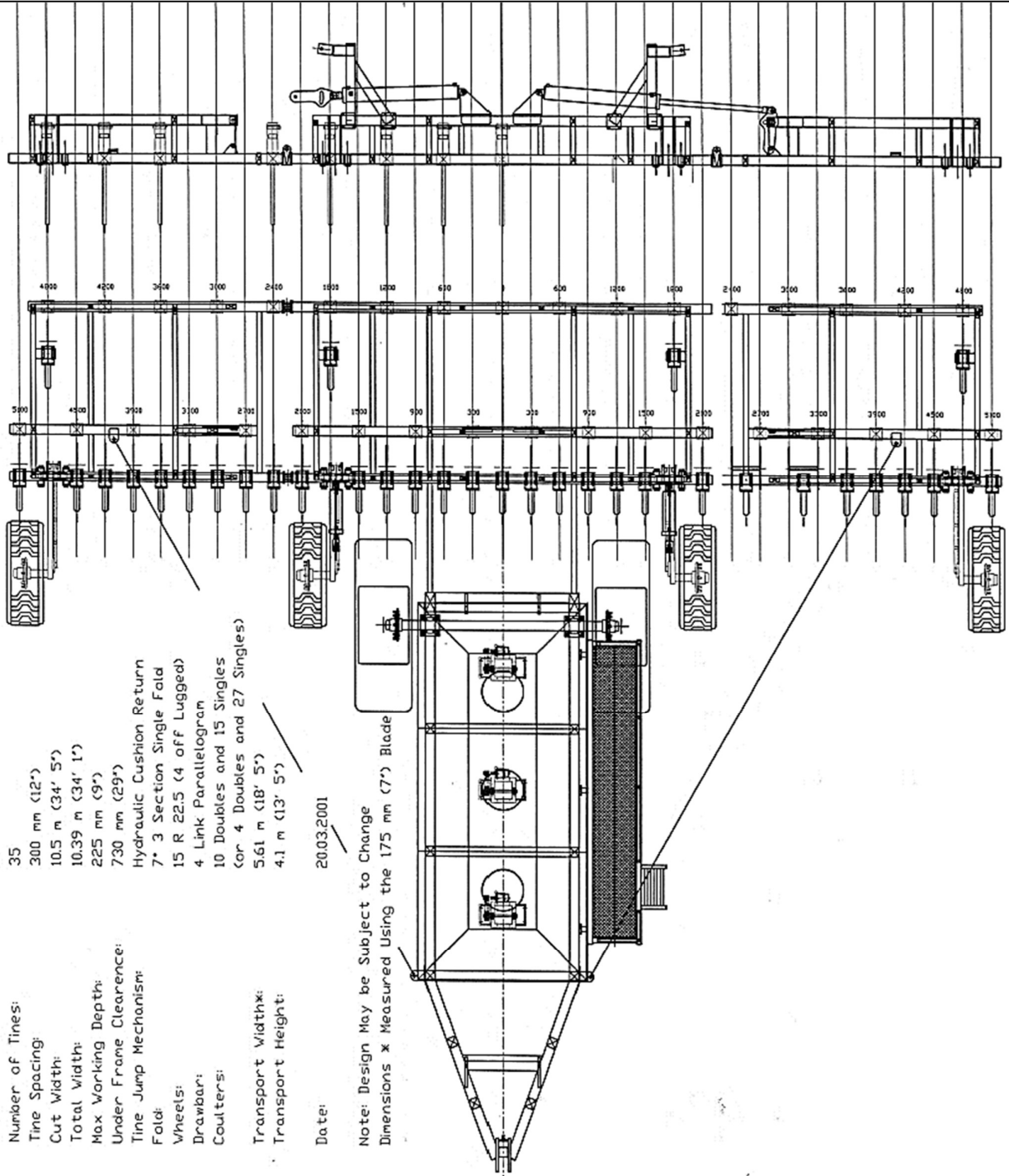
Date:

2003.2001

Note: Design May be Subject to Change

Dimensions x Measured Using the 175 mm (7") Blade

35
300 mm (12")
10.5 m (34' 5")
10.39 m (34' 1")
225 mm (9")
730 mm (29")
Hydraulic Cushion Return
7" 3 Section Single Fold
15 R 22.5 (4 off Lugged)
4 Link Parallelogram
10 Doubles and 15 Singles
(or 4 Doubles and 27 Singles)
5.61 m (18' 5")
4.1 m (13' 5")



5.3 DBS AUSEEDER E-SERIES

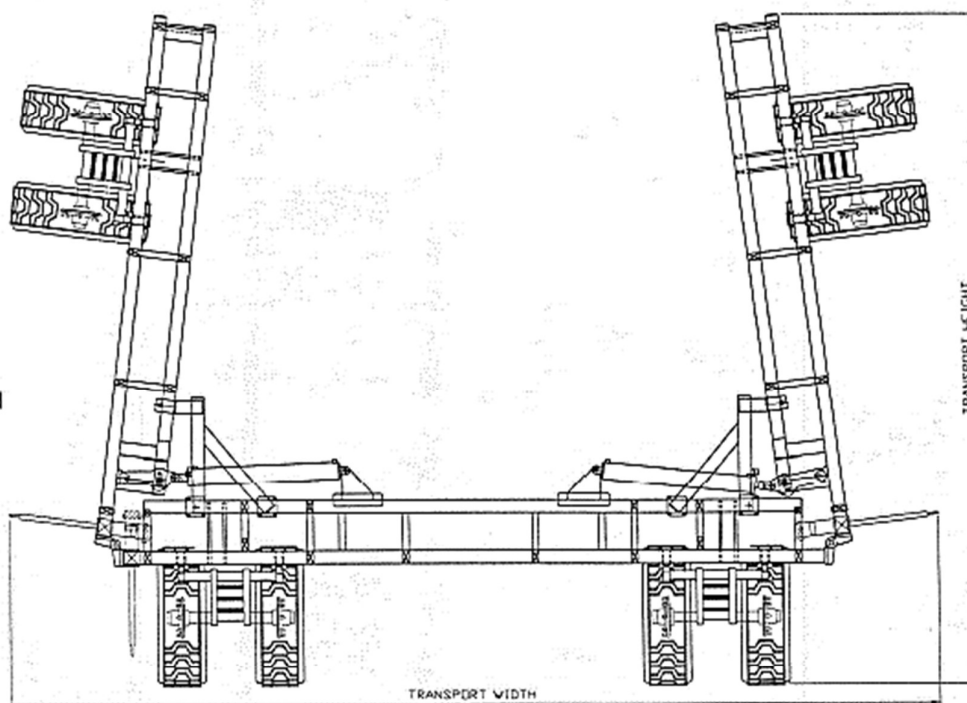
DBS AUSEEDER

PRECISION MINIMUM TILLAGE

E SERIES

- ✓ Working widths from 10.92 (35' 10") - 15.6m (51' 2")
- ✓ Dual super single lug tyres on centre frame and wings on larger models
- ✓ Trussed Drawbar
- ✓ Over centre single fold
- ✓ Safety check valve on wingfold
- ✓ Designed and built by Ausplow

54-260E
Illustrated



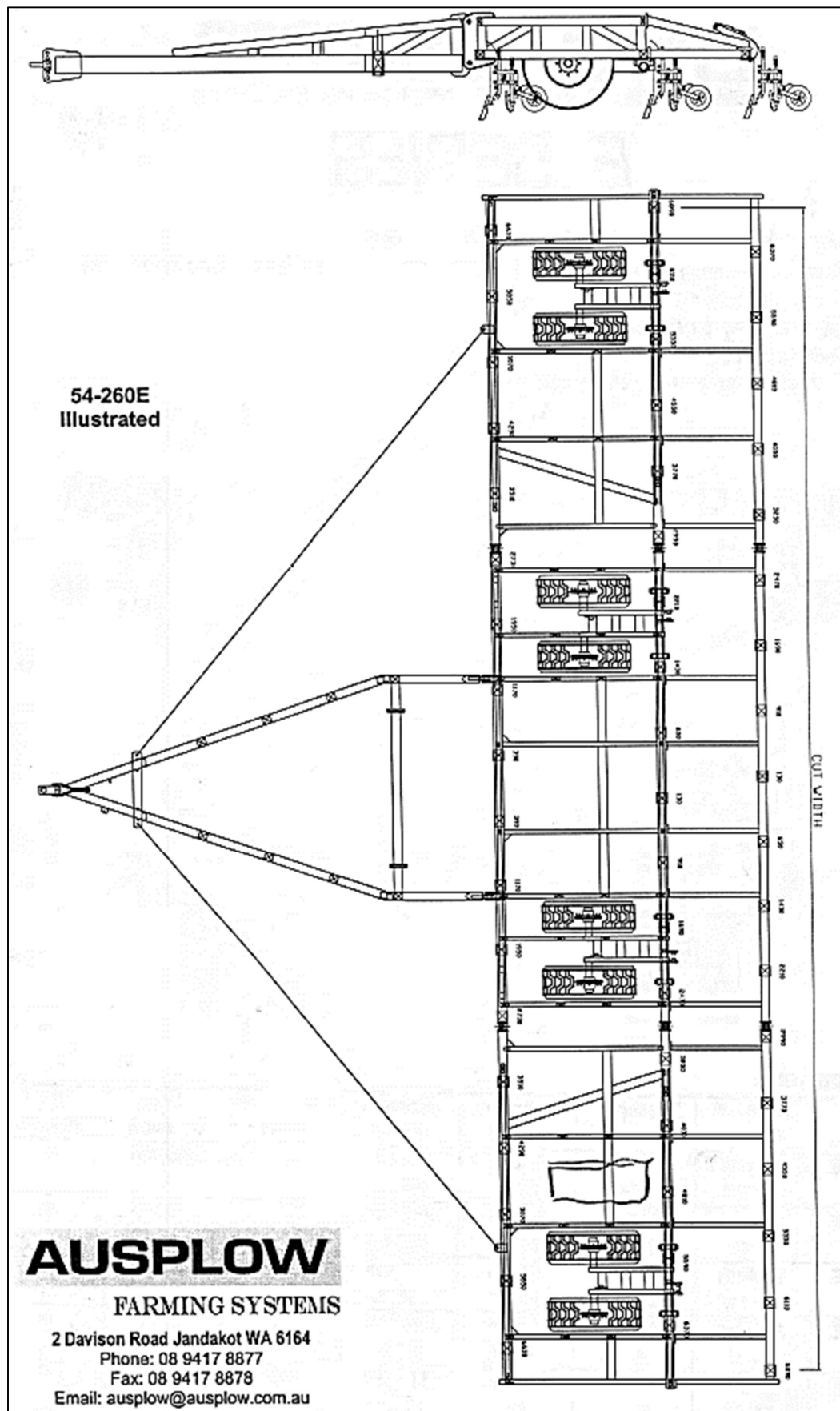
Specifications

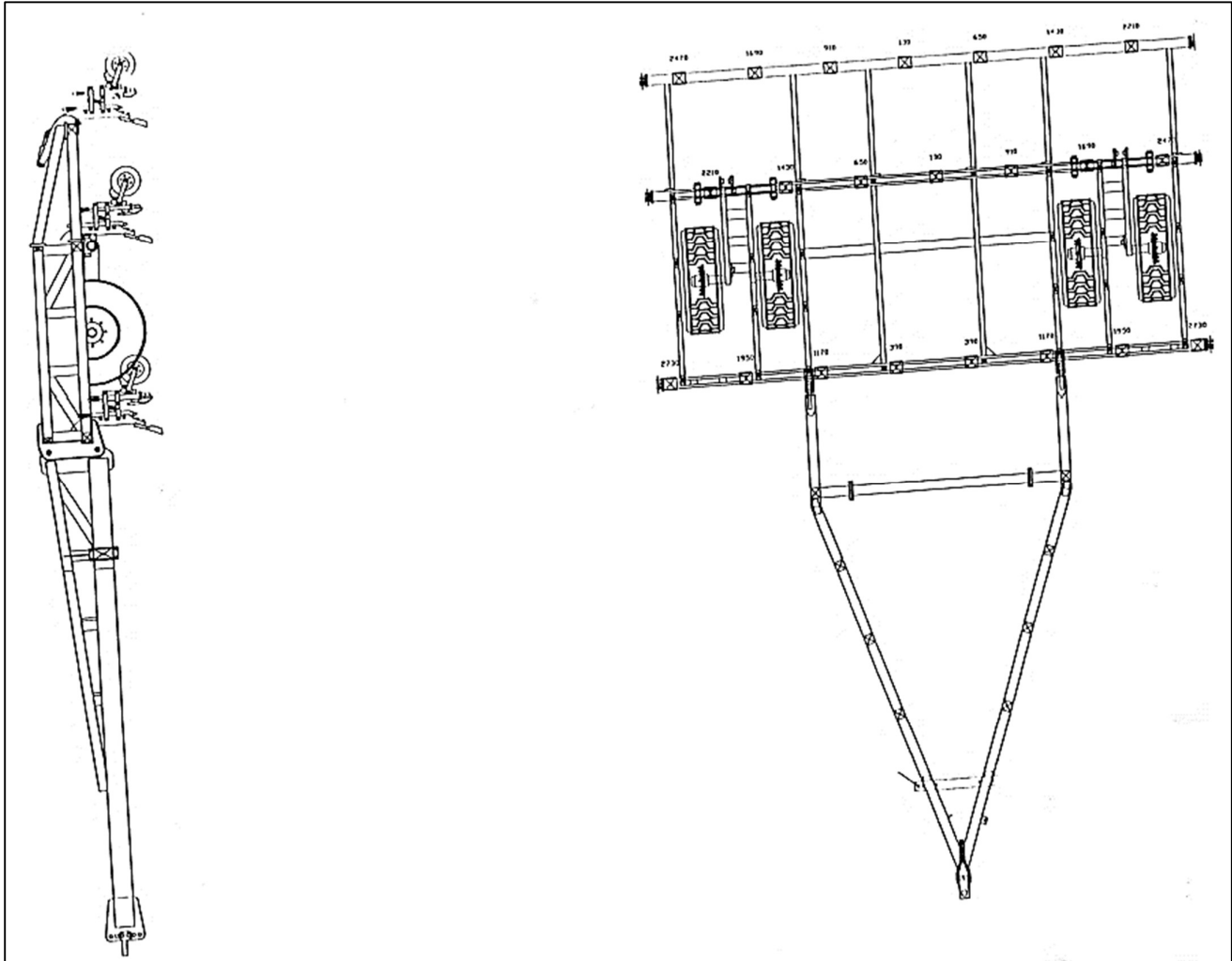
	Width of Cut m	Transport Width	Transport Height	Minimum Power	Number of Tines	Tine Spacing	No. Wheels
42-260 E	10.92m 35' 10"	7.42m 24' 4"	3.83m 12' 7"	219 kW 294 hp	42	260mm	6
48-260 E	12.48m 40' 11"	7.42m 24' 4"	4.61m 15' 2"	251 kW 336 hp	48	260mm	6
48-260 E	12.48m 40' 11"	7.42m 24' 4"	4.61m 15' 2"	251 kW 336 hp	48	260mm	8
54-260 E	14.04m 46' 1"	7.42m 24' 4"	5.39m 17' 8"	282 kW 378 hp	54	260mm	8
60-260 E	15.6m 51' 2"	7.42m 24' 4"	6.17m 20' 3"	313 kW 420 hp	60	260mm	8

Models available with 300mm spacing
Extension kits available on some models
Coulters available as option

Engine power required is approximately 5Kw (7hp) per tine

Printed 8/22/00





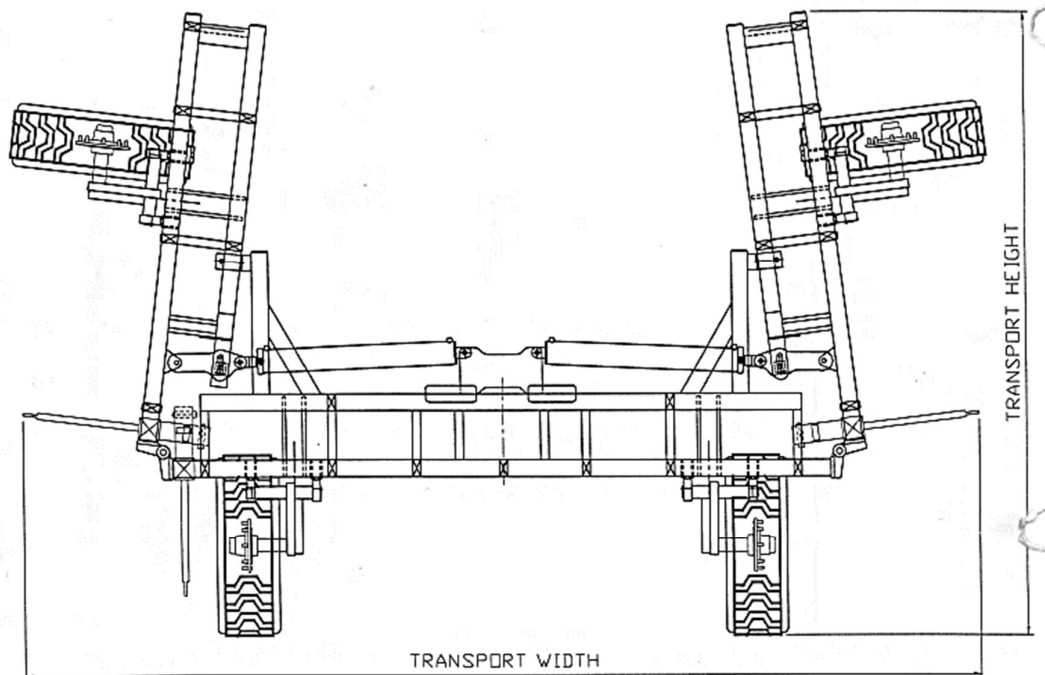
5.4 DBS AUSEEDER N-SERIES

DBS AUSEEDER
PRECISION MINIMUM TILLAGE

N SERIES

- ✓ Working widths from 8.32m (27' 4") - 10.92m (35' 10")
- ✓ Super single lug tyres
- ✓ Trussed Drawbar
- ✓ Over centre single fold
- ✓ Safety check valve on wingfold
- ✓ Designed and built by Ausplow

36-260N
Illustrated



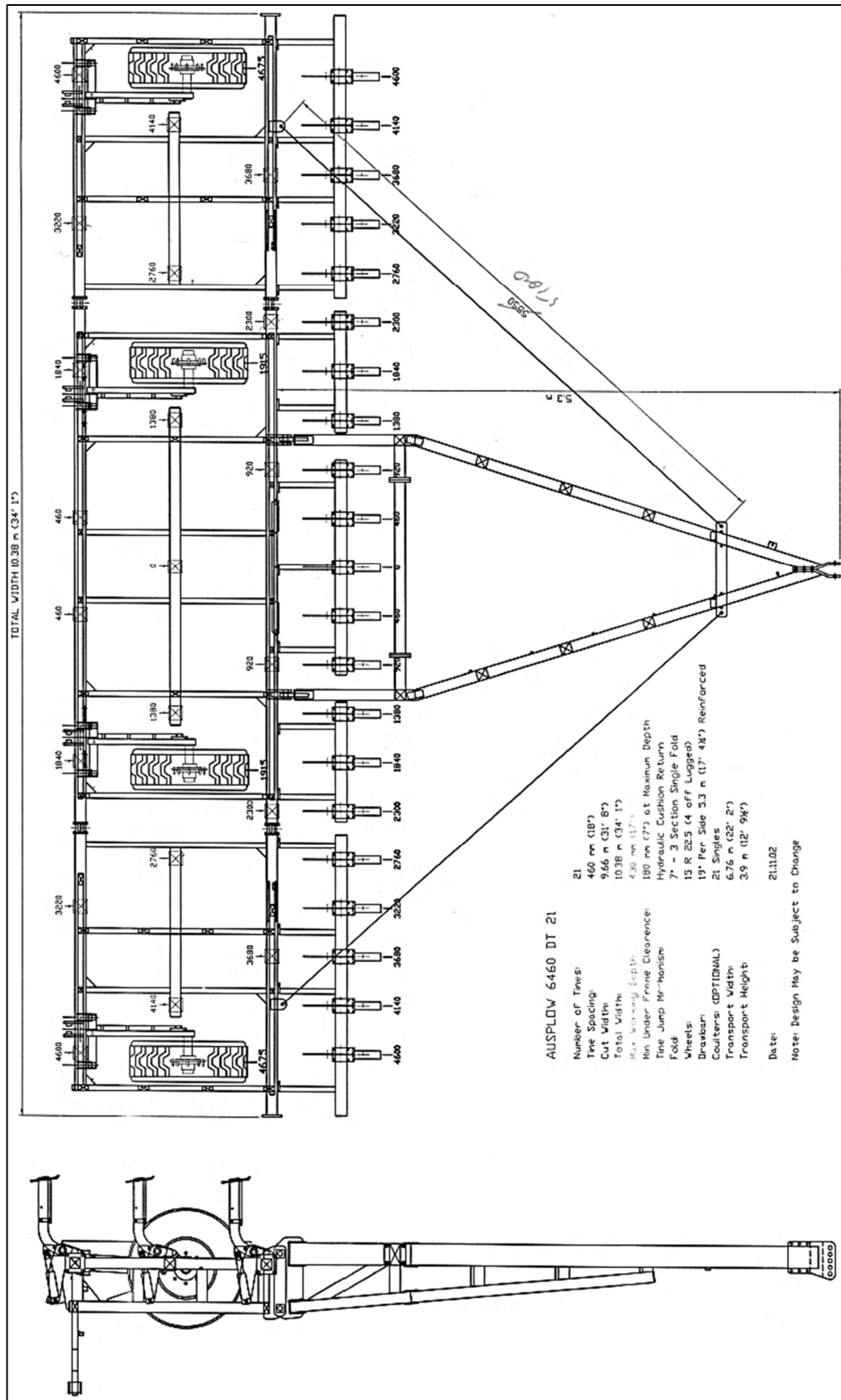
Specifications

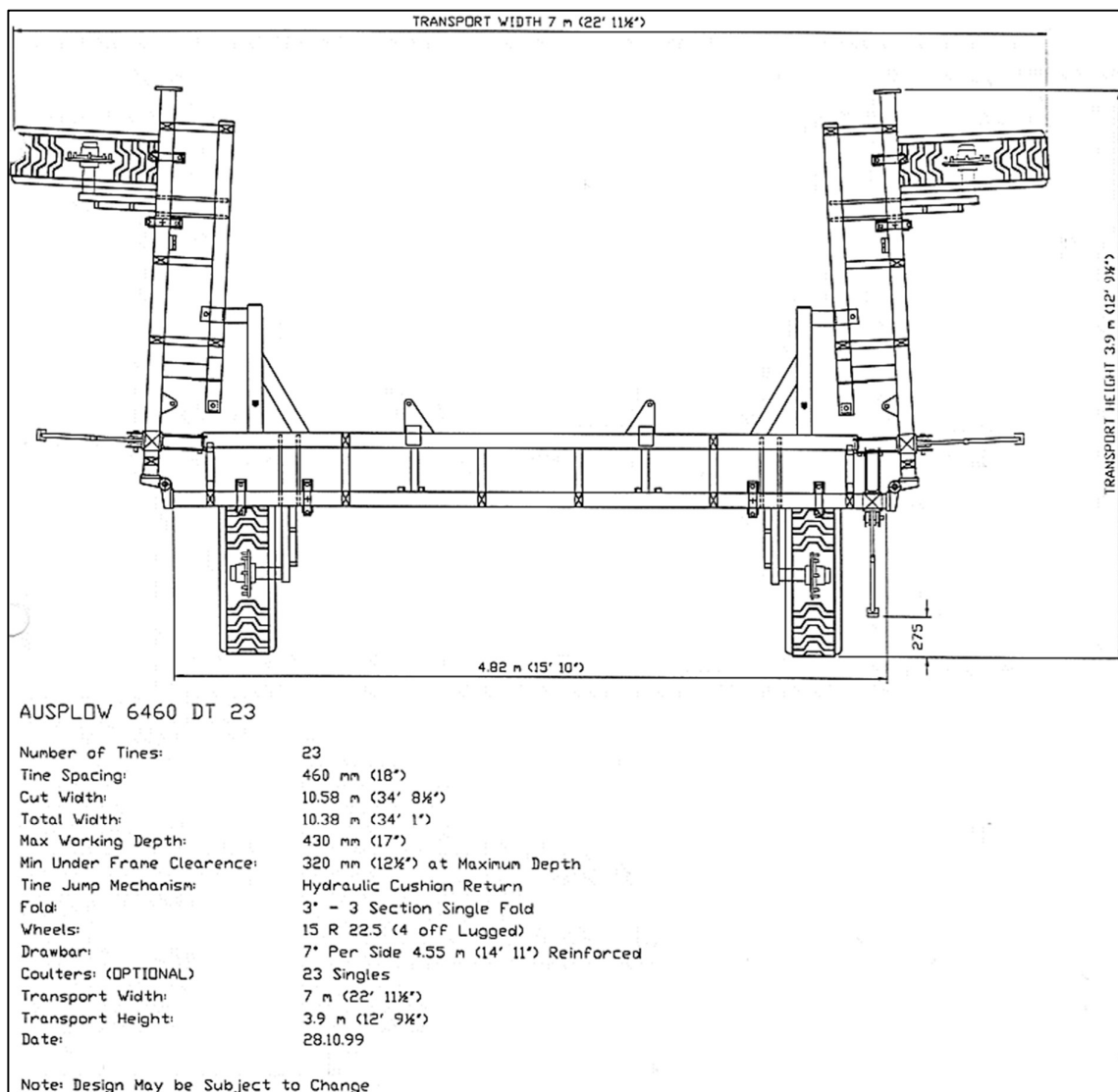
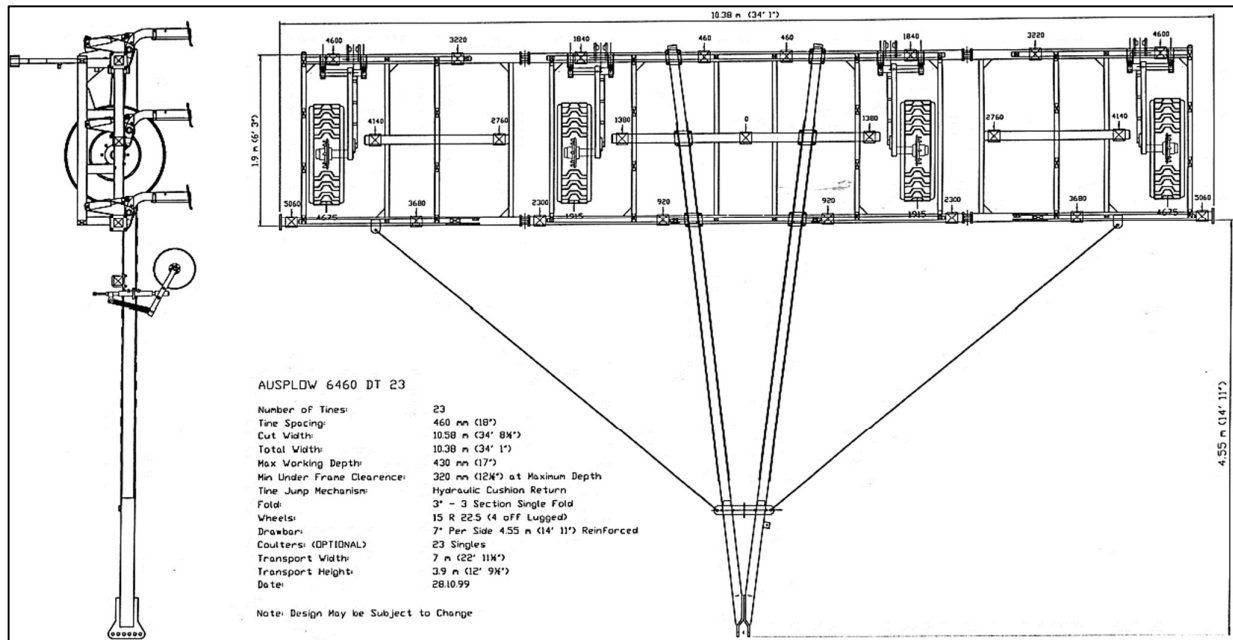
	Width of Cut m	Transport Width	Transport Height	Minimum Power	Number of Tines	Tine Spacing	No. Wheels
32-260 N	8.32m 27' 4"	5.86m 19' 3 "	3.31m 10" 11"	167 kW 224 hp	32	260mm	4
36-260 N	9.36m 30' 8"	5.86m 19' 3 "	3.83m 12' 7"	188 kW 252 hp	36	260mm	4
42-260 N	10.92m 35' 10"	5.86m 19' 3 "	4.61m 15' 2"	219 kW 294 hp	42	260mm	4

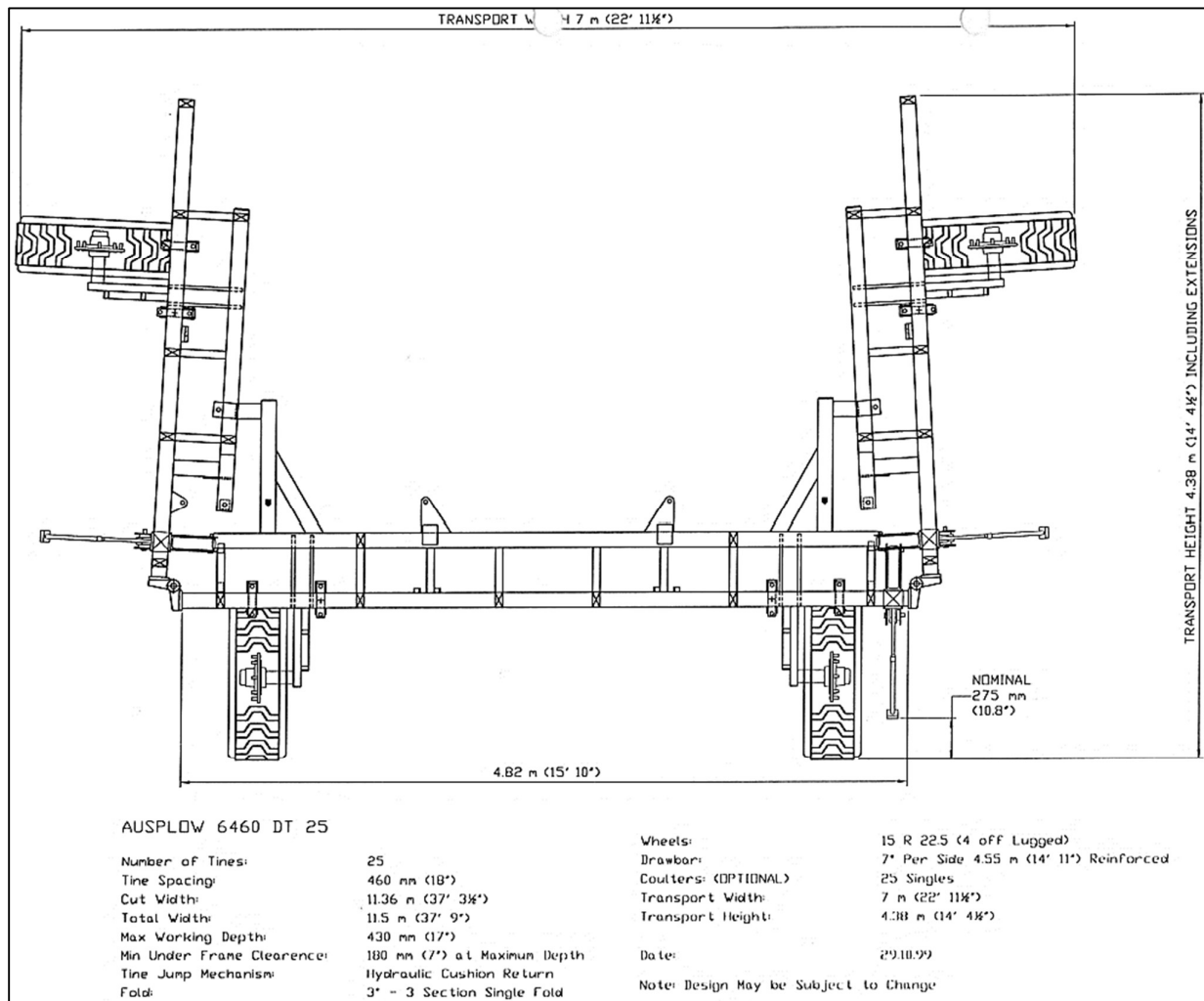
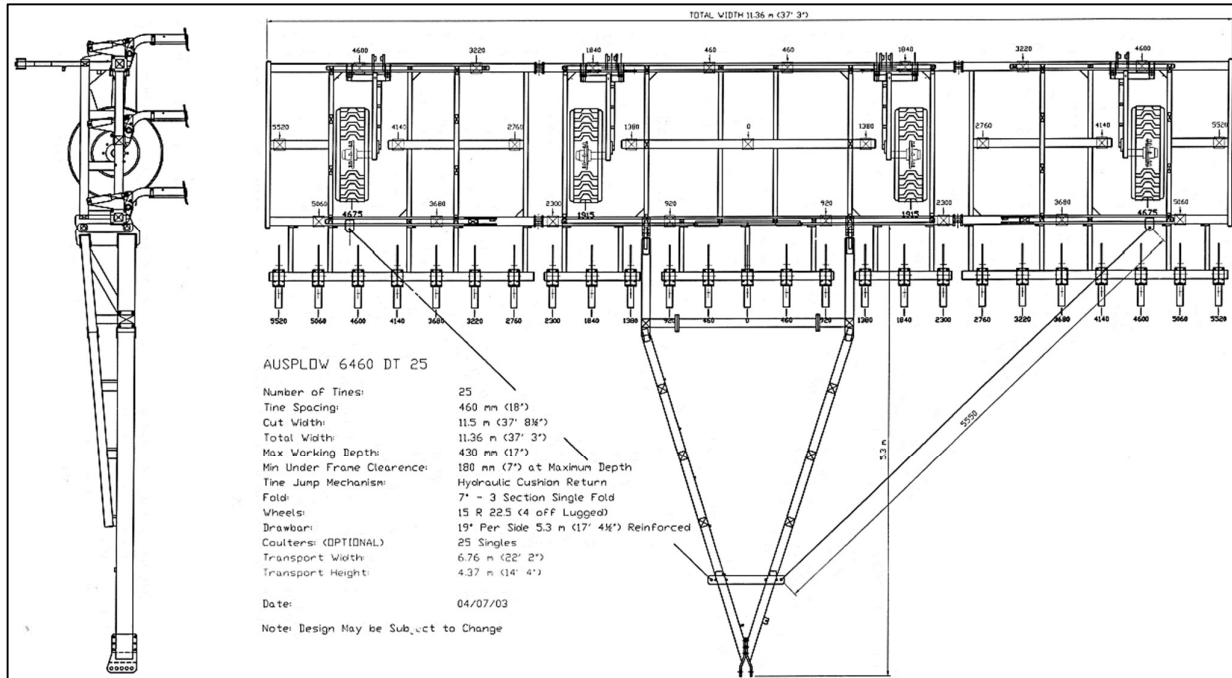
Models available with 300mm spacing
Extension kits available on some models
Coulters available as option

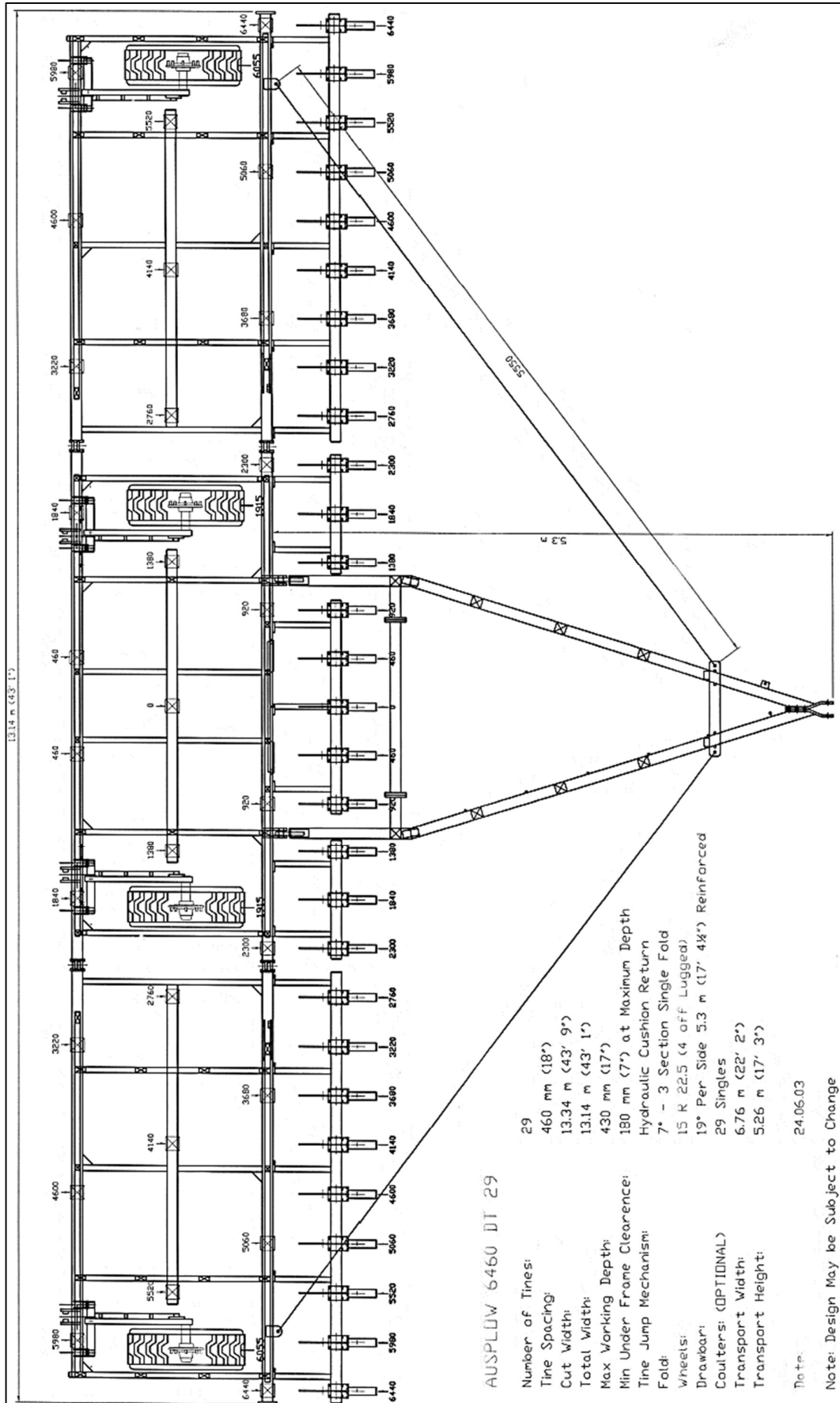
Engine power required is approximately 5Kw (7hp) per tine

5.5 DEEP TILLAGE

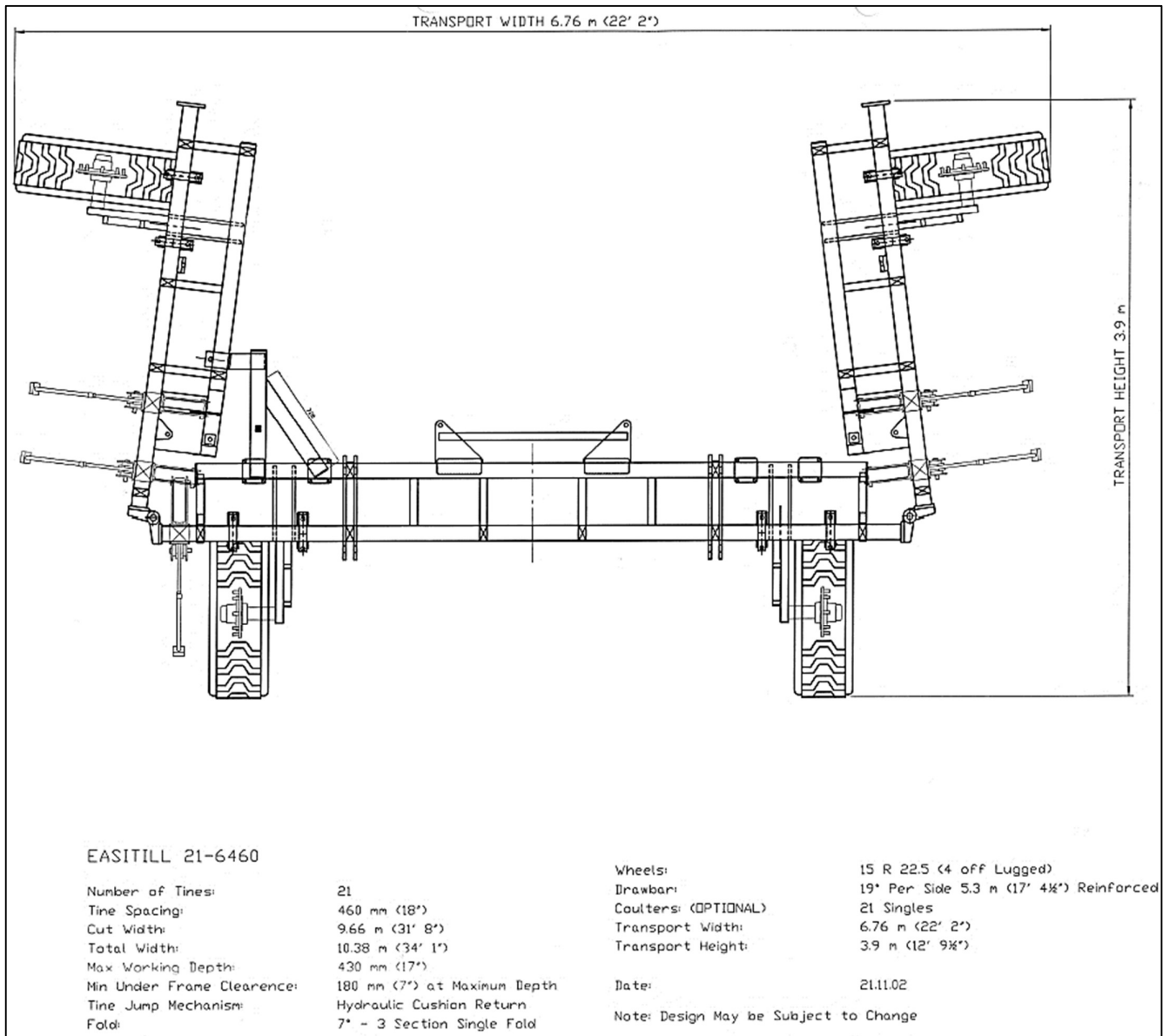


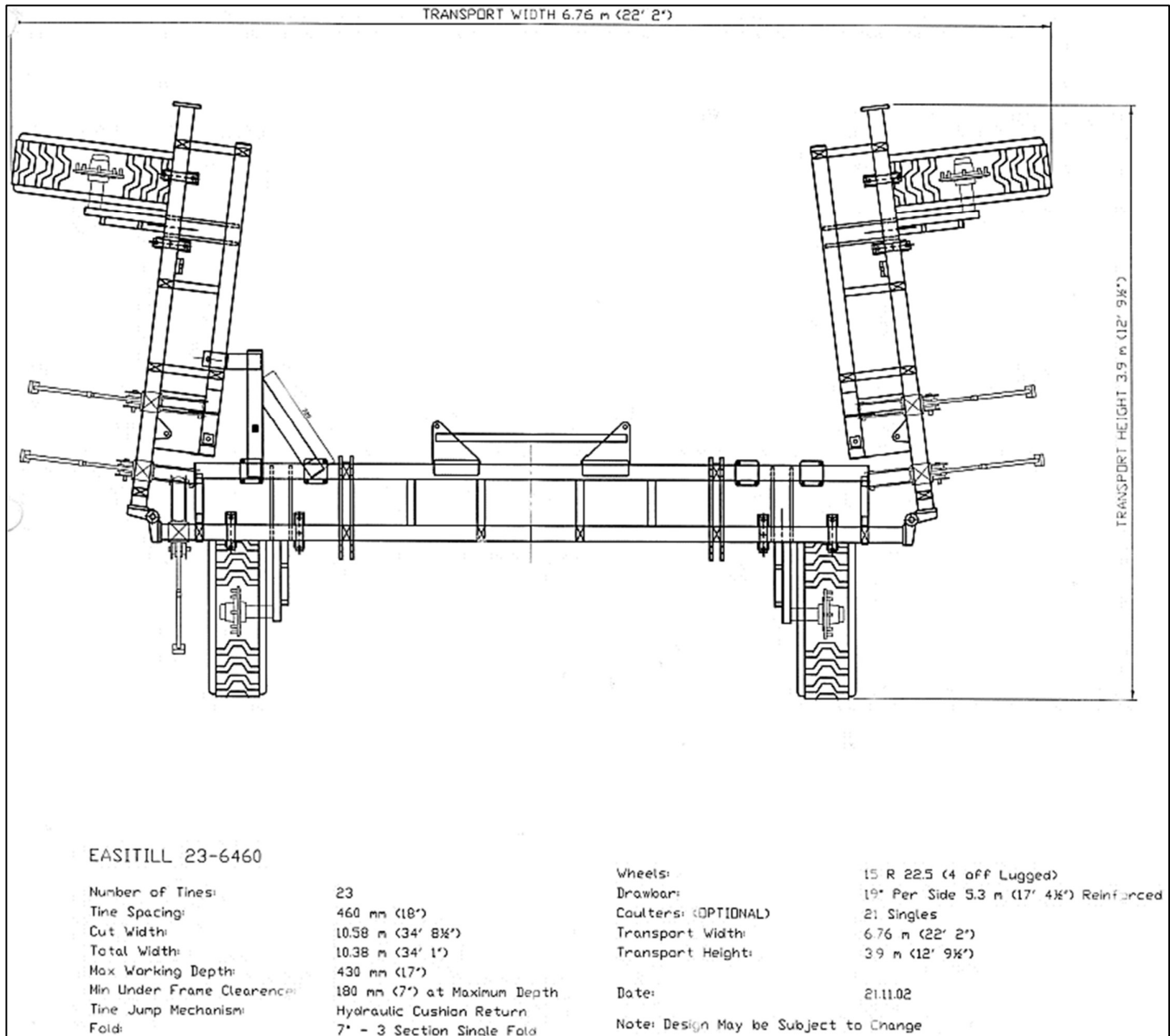


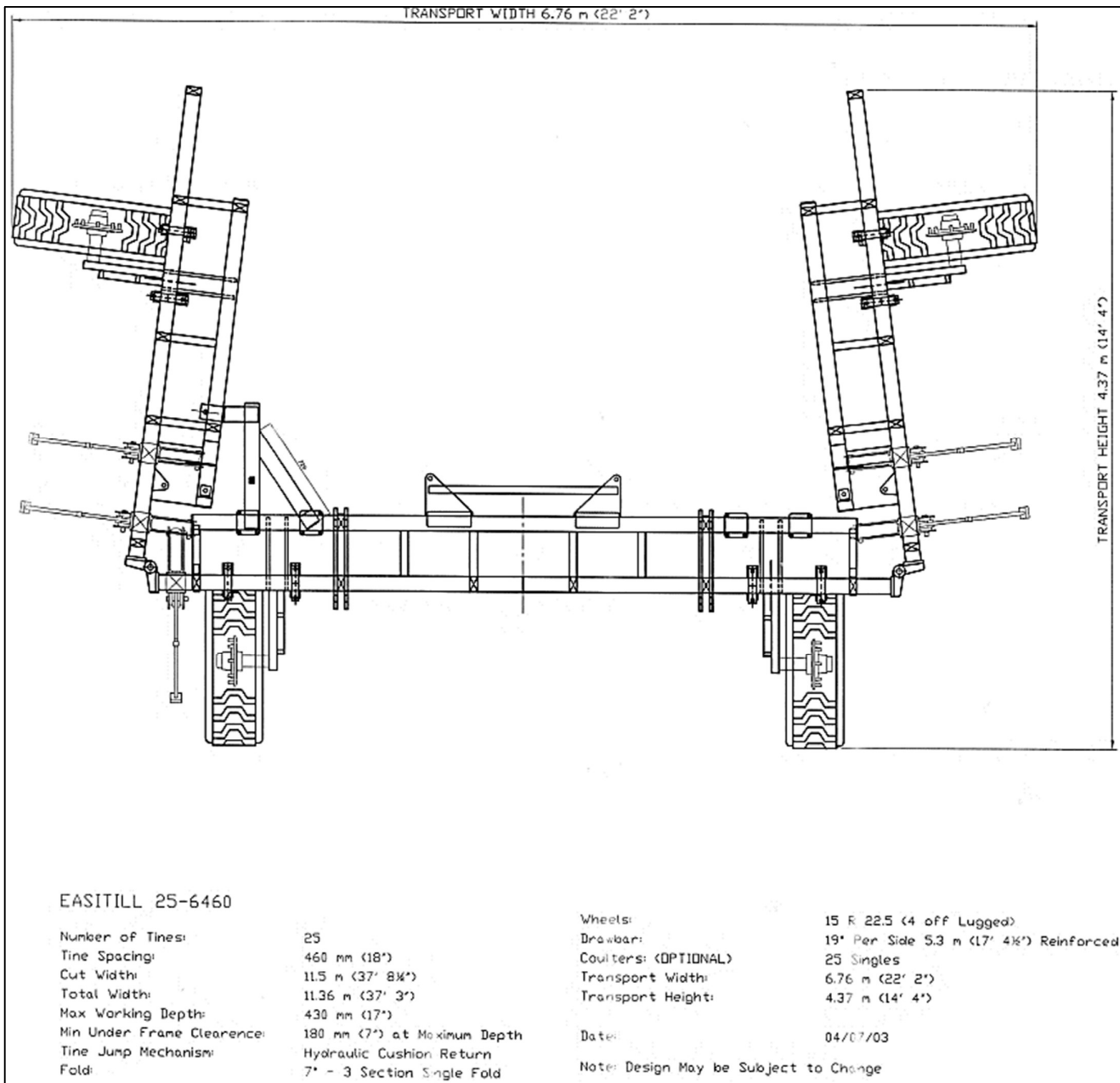


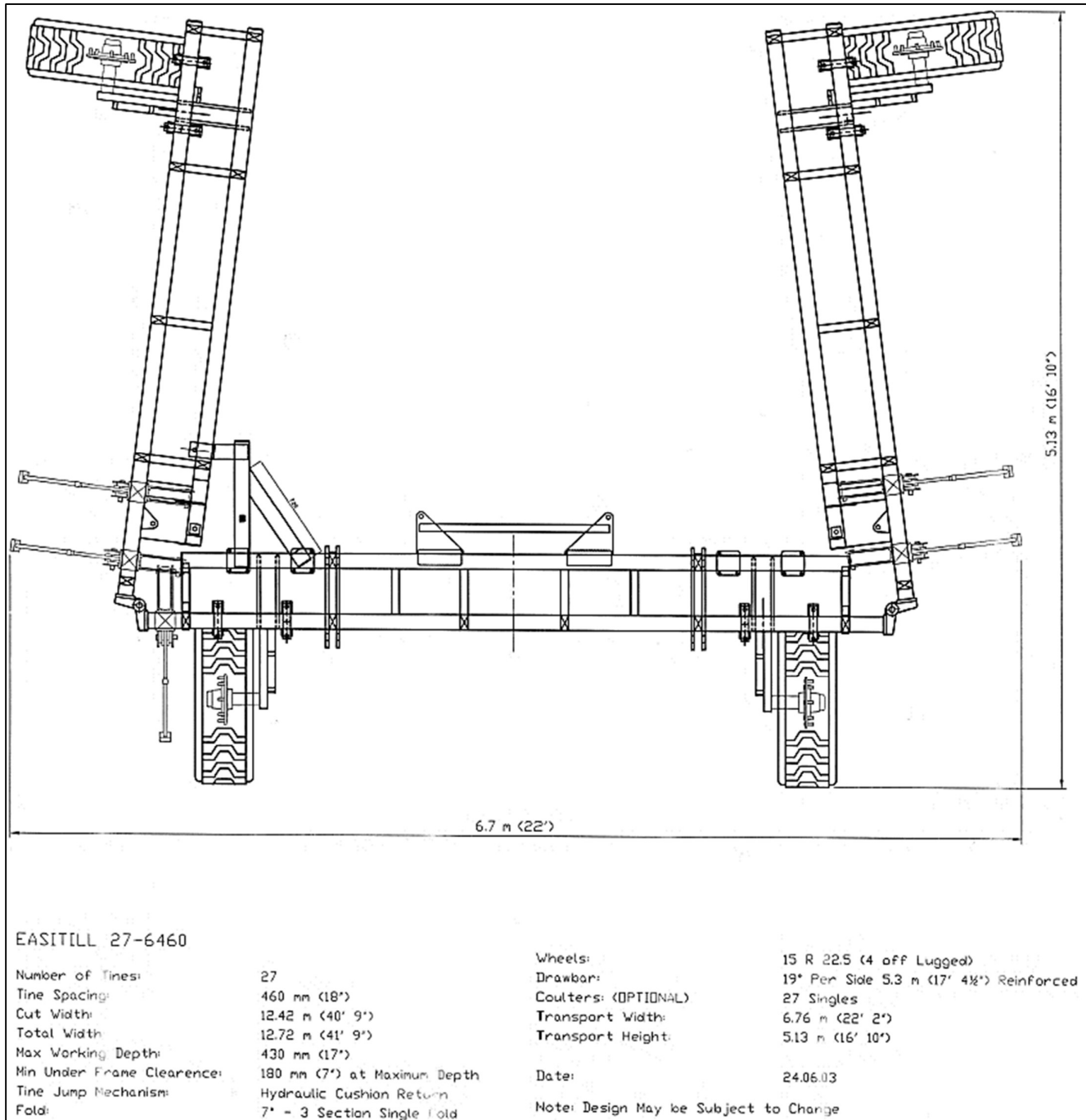


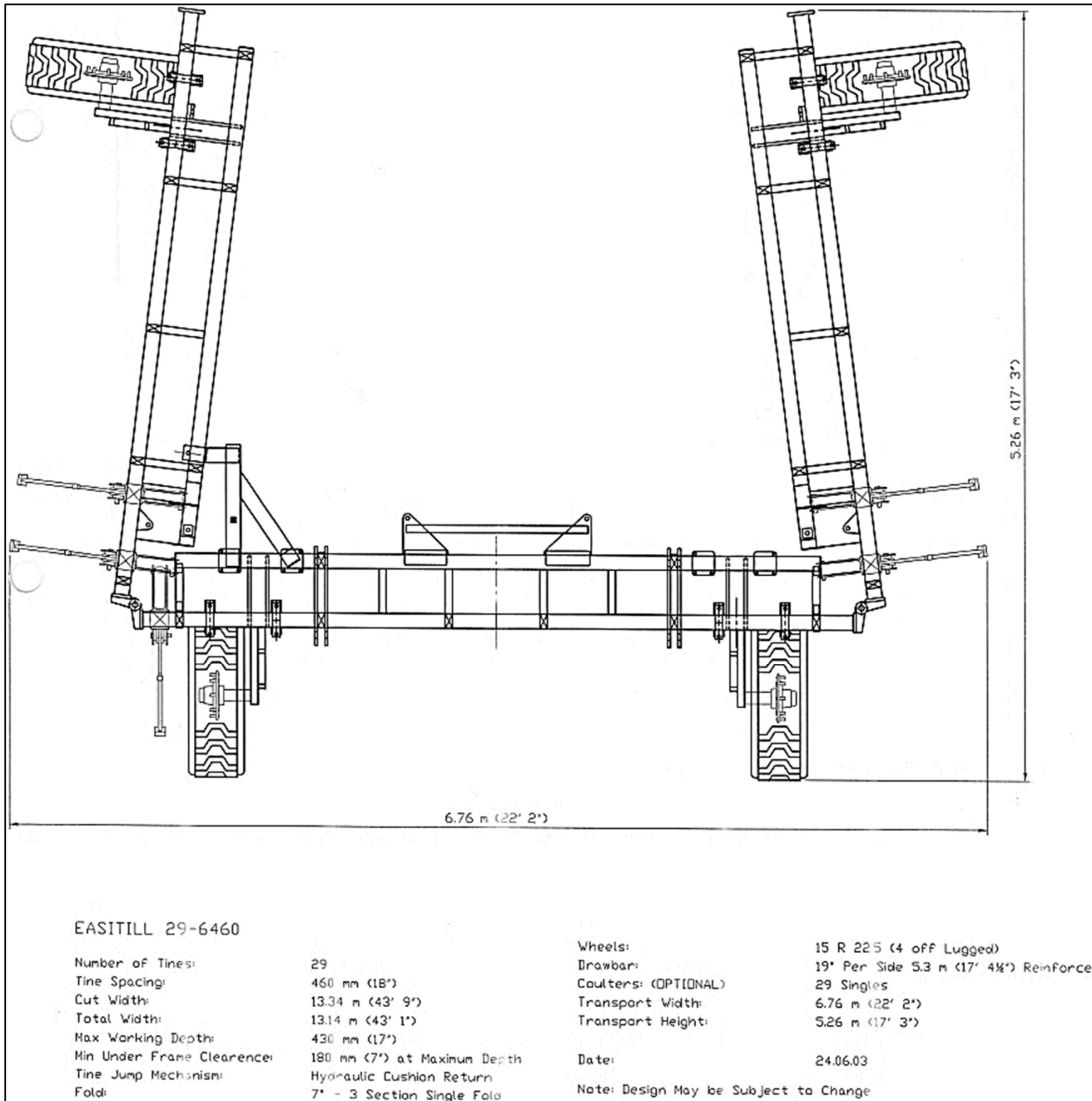
5.6 EASITILL



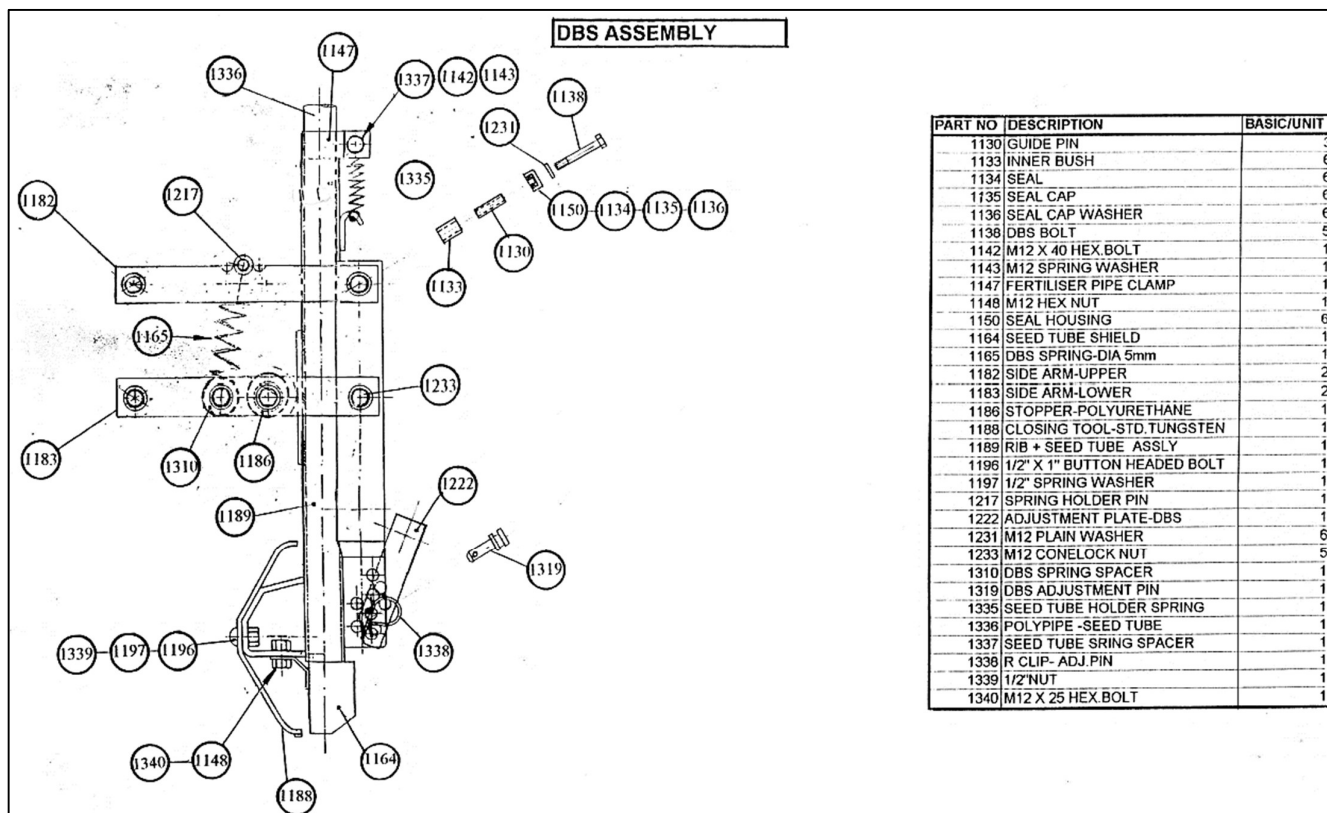
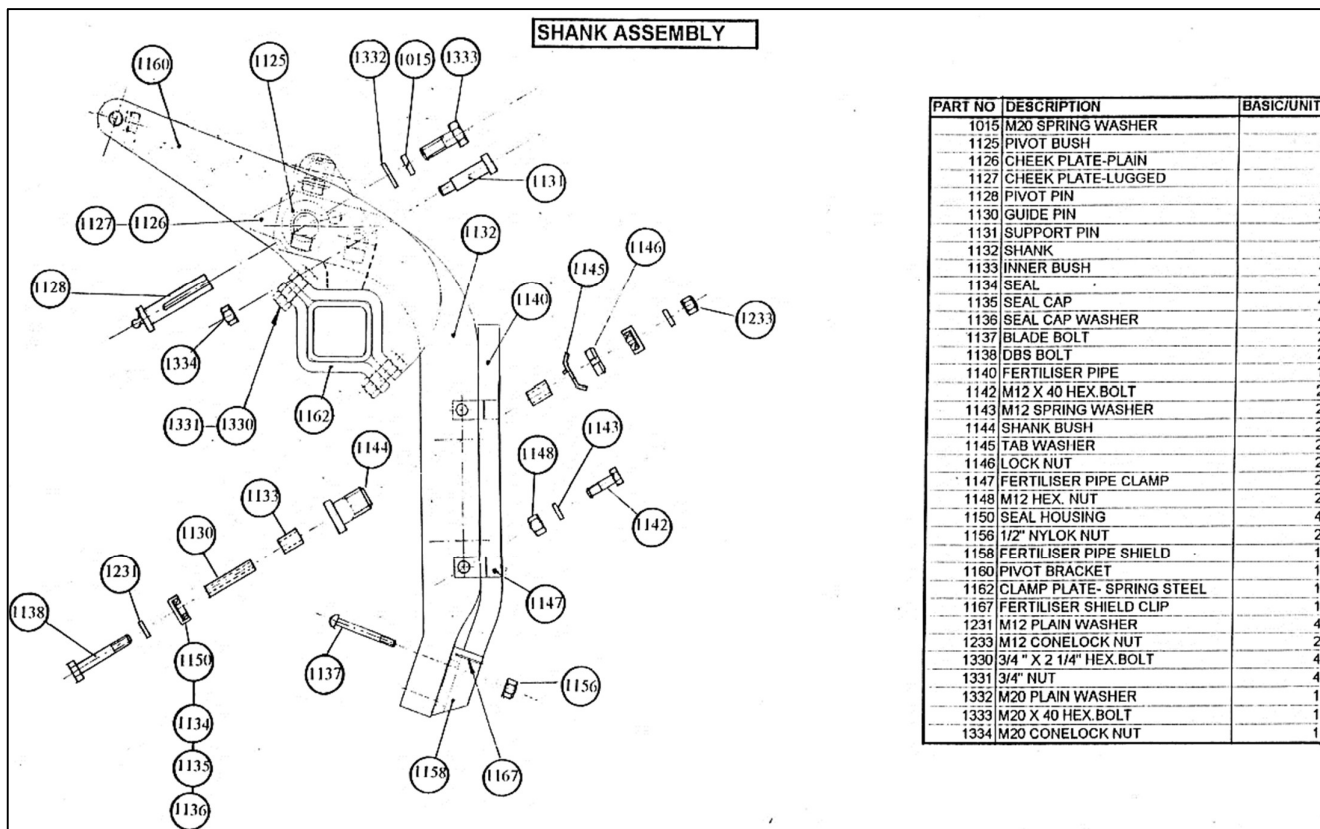


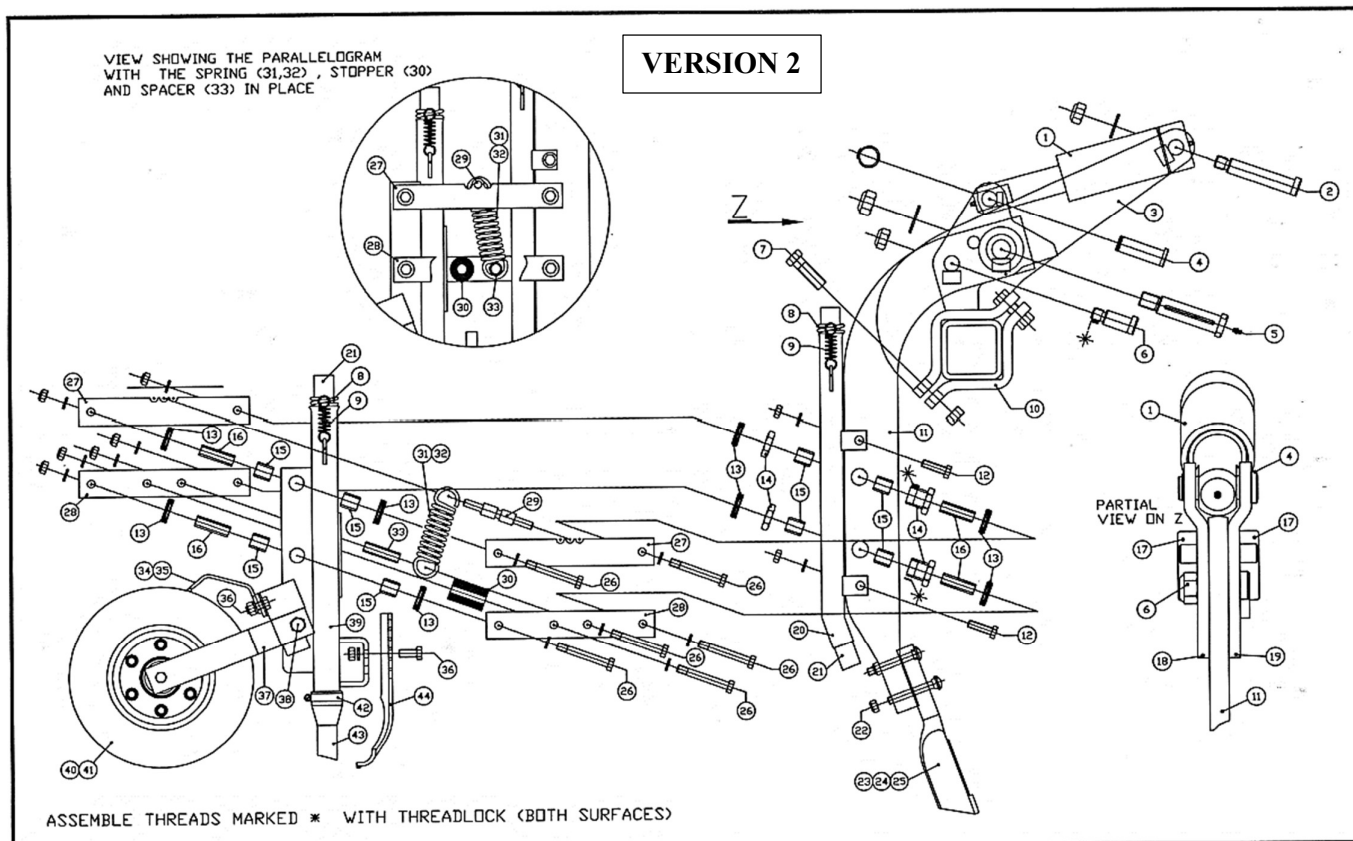




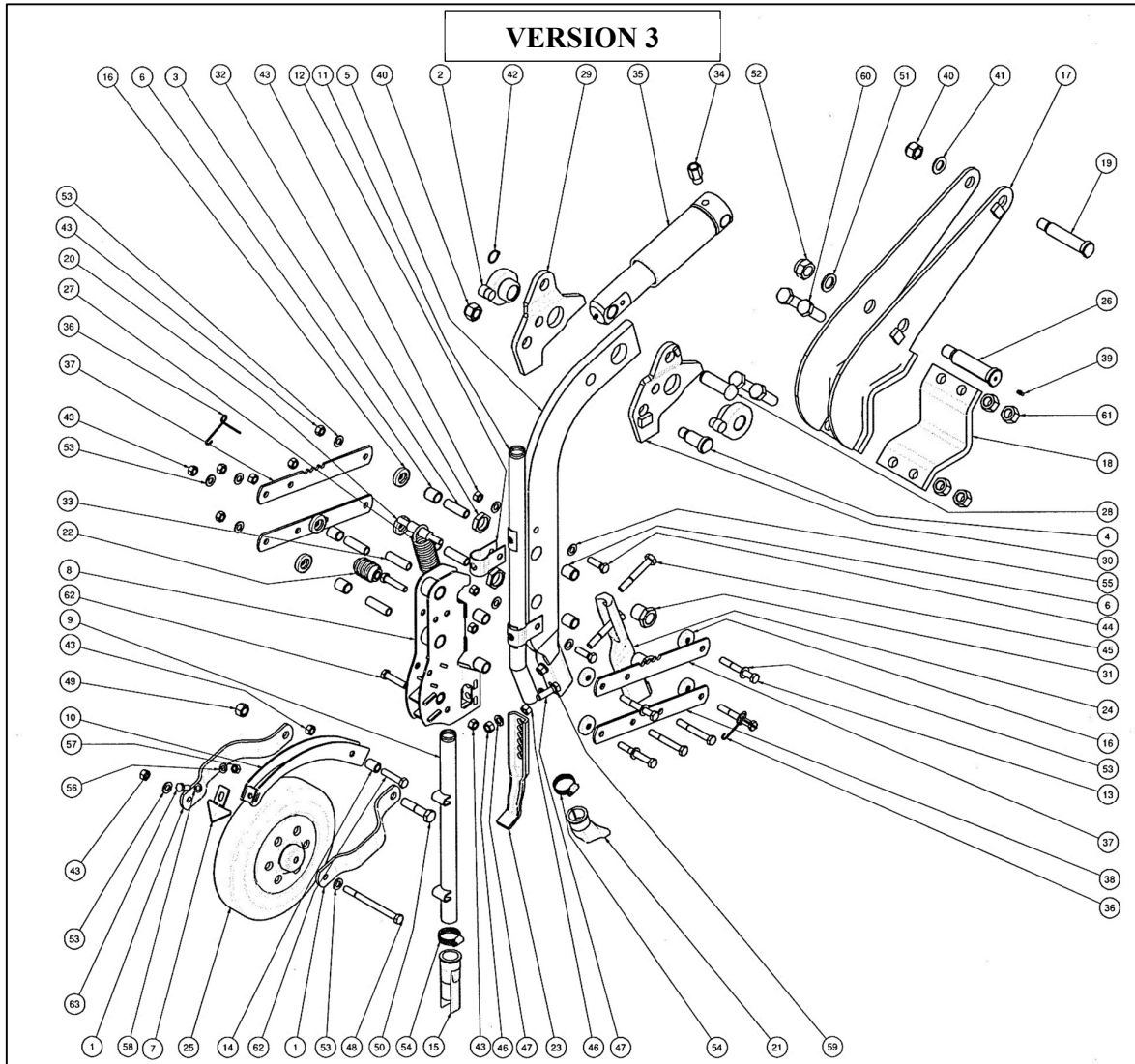


6.0 TINE ASSEMBLY

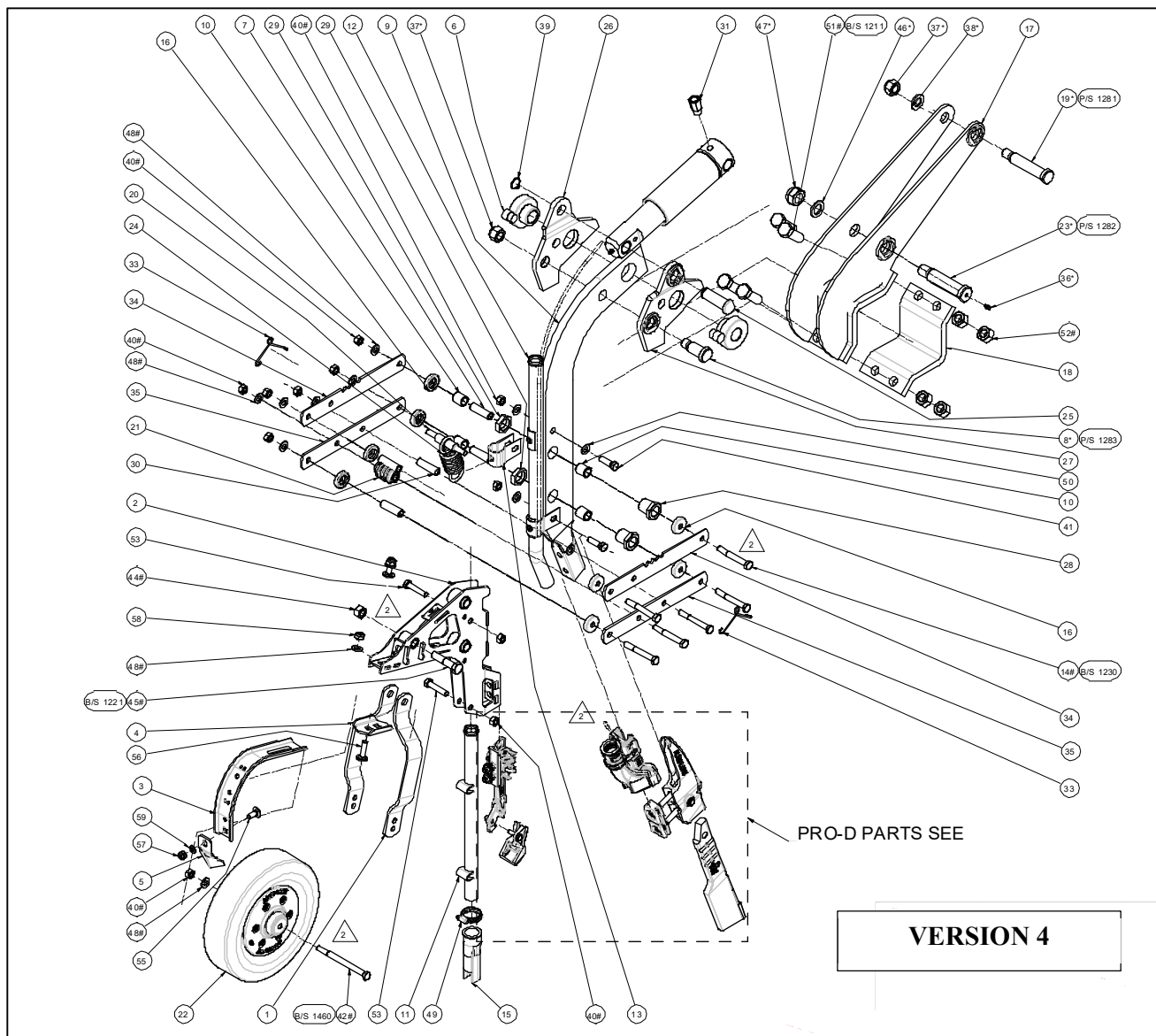




ITEM NO	PART NO	DESCRIPTION	QTY	ITEM NO	PART NO	DESCRIPTION	QTY
1	1454	Jump Cylinder Complete (99)	1	31	1389	Spring - dia 5.6 x 120mm	1
2	1281	Pin Set - Jump Cylinder Base	1	32	1421	Spring - dia 6.3 x 120mm	1
3	1160	Pivot Bracket	1	33	1310	Spacer - ID15 x OD21.3 x L59	1
4	1456	Pin Set - Jump Cylinder Rod (99)	1	34	1370	Scraper Plate - 50mm (Complete)	1
5	1282	Pin Set - Shank Pivot	1	35	1379	Scraper Plate - 60mm (Complete)	1
6	1283	Pin Set - Support	1	36	1191	Bolt Set - 1/2 x 1 1/4 Gr5	2
7	1211	Bolt Set - 3/4 x 2 1/4 Gr 5	4	37	1373	Press Wheel Arm	2
8	1356	Spring Clamp - 32mm	2	38	1221	Bolt Set M16 x 70 Gr8.8	1
9	1335	Spring - dia 2mm x 65mm	2	39	1366	Seed Tube Assembly	1
10	1162	Clamp Plate (Spring Steel)	1	40	1351	Press Wheel 70mm (Complete)	1
11	1132	Shank DBS	1	41	1352	Press Wheel 50mm (Complete)	1
12	1210	Bolt Set - M12 X 40 Gr8.9	2	42	1367	Hose Clamp 27/51mm	1
13	1150	Seal Cap Complete	8	43	1369	Seed Boot	1
14	1457	Housing Shank Bush Set	2	44	1307	Closing Tool - S30	1
15	1133	Bush - ID18 x OD24 x L28	8				
16	1130	Bush - ID12 x OD18 x L57	4				
17	1125	Bush - Shank Pivot	2				
18	1437	Cheek Plate - Left (Complete)	1				
19	1438	Cheek Plate - Right (Complete)	1				
20	1360	Fertilizer Pipe Assembly	1				
21	1361	Poly Seed / Fertilizer Tube	2				
22	5202	Bolt Set - 1/2 x 3 1/2 Hex head Gr8	2				
23	1285	DBA25-80 - 125mm (5") Digging Blade	1				
24	1288	DBA27-130 - 175mm (7") Digging Blade	1				
25	1287	DBA29-130 - 225mm (9") Digging Blade	1				
26	1230	Bolt Set - M12 x 90 Gr8.8	6				
27	1182	Side Arm Upper	2				
28	1183	Side Arm Lower	2				
29	1217	Pin - Spring Holder	1				
30	1372	Stopper - Rubber (Complete)	1				

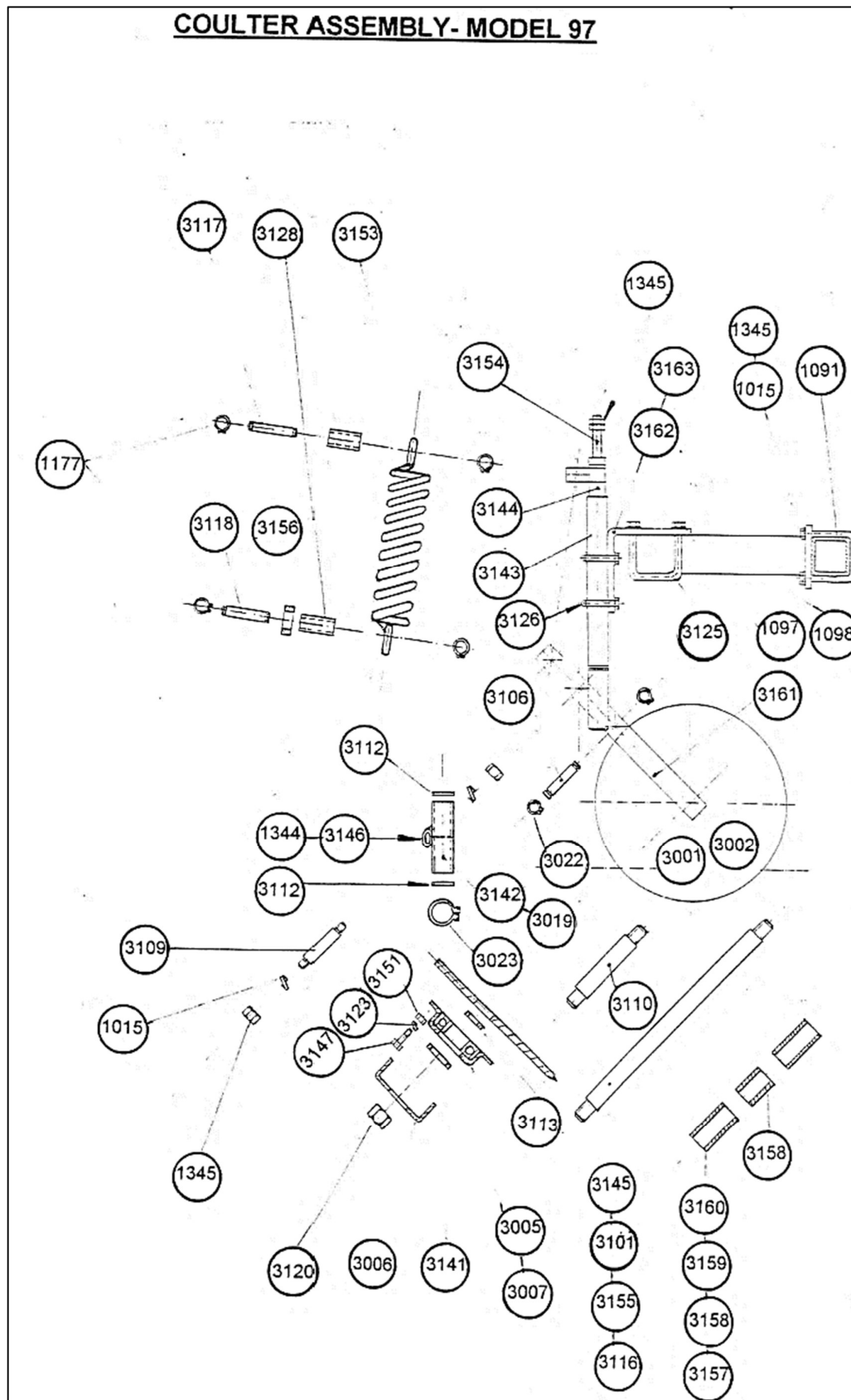


Item	Qty	Part No	Description
1	2	11131	PRESS WHEEL ARM STANDARD CURVED
2	2	1125	BUSH ASSY - SHANK PIVOT
3	4	1130	BUSH - SINTERED NICKEL
4	1	1131	PIN - 25 x64 - SHANK SUPPORT
5	1	1132	SHANK
6	8	1133	BUSH - SINTERED NICKEL
7	1	11345	SCRAPER SWEEP TYPE - 50mm ASSEMBLY
8	1	11350	RIB WELDMENT
9	1	11351	SEED TUBE WELDMENT
10	1	11365	SCRAPER ARM ASSEMBLY 300 STD WHEEL
11	1	11367	FERTILISER TUBE WELDMENT
12	2	11369	CLAMP- FERTILISER TUBE
13	6	1138	BOLT-M12x30 - ZP
14	1	11428	SPACER
15	1	11446	SEED BOOT
16	8	1150	SEAL CAP ASSEMBLY
17	1	1160	PIVOT BRACKET ASSY
18	1	1162	CLAMP PLATE- PIVOT BRACKET
19	1	1179	PIN - JUMP CYL BASE
20	1	1217	PIN - SPRING HOLDER
21	1	12344	FERTILISER TUBE BOOT
22	1	12788	STOPPER ASSY
23	1	12813	CLOSING TOOL 30mm ASSY
24	1	1288	BLADE ASSY - DBA 27-130 (7 INCH)
25	1	1352	PRESS WHEEL- 50mm
26	1	1368	PIN SHANK PIVOT - DIA30 x LGTH102
27	1	1389	SPRING - TENSION 5.6 x 42 x 120
28	1	1436	PIN - 25 x75 JUMP CYL ROD END
29	1	1437	CHEEK PLATE - LEFT
30	1	1438	CHEEK PLATE ASSEMBLY - RIGHT
31	2	1463	HOUSING SHANK BUSH
32	2	1464	NUT-SHANK BUSH HOUSING
33	1	1495	SPACER BUSH
34	1	6016	VALVE - CUSHION RETURN
35	1	6017	JUMP CYLINDER ASSEMBLY
36	2	8141	RETAINING SPRING
37	2	8925	SIDE ARM - UPPER 330
38	2	8926	SIDE ARM - LOWER 330
39	1	9001	GREASE NIPPLE 1/4 BSW
40	2	9002	NUT - M20 - ZP - CONELOCK
41	1	9003	WASHER-FLAT-M20-ZP
42	1	9007	CIRCLIP-EXTERNAL-25X1.2mm
43	12	9009	NUT M12 C8 ZP CONELOCK
44	2	9011	BOLT M12x40 - G8.8 - ZP
45	2	9012	BOLT 1/2"UNC x 3 1/2" ZP
46	3	9014	NUT-1/2"UNC - ZP
47	3	9015	WASHER SPRING - 1/2" - ZP
48	1	9016	BOLT-M12x150 - ZP
49	1	9024	NUT-M16 - ZP - CONELOCK
50	1	9025	BOLT-M1 6x 70 - ZP
51	1	9029	WASHER FLAT-M24 - ZP
52	1	9030	NUT-M24 - ZP - NYLOCK
53	13	9031	Washer - Flat - M12 H/T ZP
54	2	9066	HOSE CLAMP 19-44 WORM DRIVE-SS
55	4	9108	WASHER FLAT - M12 - SS 316
56	1	9130	WASHER SPRING - M10
57	1	9131	NUT - M10 - ZP
58	1	9141	WASHER FLAT M10 - ZP
59	1	9155	BOLT 1/2 x 1 3/4" UNC G8 ZP
60	4	9388	BOLT M20x60 C10.9 ZP
61	4	9389	HEX NUT M20 C10.9 ZP
62	3	9415	BOLT M12x55 GR8.8 ZP
63	1	9430	BOLT M10x25 C8.8 ZP



Item	Qty	Part No	Description	Note	Item	Qty	Part No	Description	Note
28	2	1463	HOUSING SHANK BUSH		1	2	027203	MUD RIB PRESS WHEEL ARM	
29	2	1464	NUT-SHANK BUSH HOUSING		2	1	027222	MUD RIB SUB ASSY	
30	1	1495	SPACER BUSH		3	1	027491	V4 SCRAPER ARM PRESSING	
31	1	6016	VALVE - CUSHION RETURN		4	1	027493	V4 TINE SCRAPER WASHER	
32	1	6017	JUMP CYLINDER ASSEMBLY		5	1	027526	MUD SCRAPER II ASSY	
33	2	8141	RETAINING SPRING			1	16040	SCRAPER ASSY 110mm	Optional
34	2	8925	SIDE ARM - UPPER 330		6	2	1125	BUSH ASSY - SHANK PIVOT	
35	2	8926	SIDE ARM - LOWER 330		7	4	1130	BUSH - SINTERED NICKEL	
36*	1	9001	GREASE NIPPLE 1/4 BSW		8*	1	1131	PIN - 25 x84 - SHANK SUPPORT	
37*	2	9002	NUT - M20 - ZP - CONELOCK CLASS 8.8		9	1	1132	SHANK	
38*	1	9003	WASHER-FLAT-M20-ZP HARD		10	4	1133	BUSH - SINTERED NICKEL	
39	1	9007	CIRCLIP-EXTERNAL-25X1 2mm		11	1	11351	SEED TUBE WELDMENT	
40#	11	9009	NUT M12 C8 ZP CONELOCK		12	1	11367	FERTILISER TUBE WELDMNT	
41	2	9011	SCREW HEX M12x40 C8.8 ZP		13	2	11369	CLAMP- FERTILISER TUBE	
42#	1	9016	BOLT-M12x150 - ZP		14#	6	1138	BOLT-M12x90 - ZP	
43	1	9019	HEX CONELOCK NUT-M8-G8-ZP		15	1	11446	SEED BOOT	
44#	1	9024	NUT-M16 - ZP - CONELOCK		16	8	1150	SEAL CAP ASSEMBLY	
45#	1	9025	BOLT-M1 6x 70 - ZP		17	1	1160	PIVOT BRACKET ASSY	
46*	1	9029	WASHER FLAT-M24 - ZP		18	1	1162	CLAMP PLATE- PIVOT BRACKET	
47*	1	9030	NUT-M24 - ZP - NYLOCK		19*	1	1179	PIN - JUMP CYL BASE	
48#	9	9031	WASHER - FLAT - M12 H/T ZP		20	1	1217	PIN - SPRING HOLDER	
49	1	9086	HOSE CLAMP 19-44 WORM DRIVE-SS		21	1	12788	STOPPER ASSY	
50	4	9108	WASHER FLAT - M12 - SS 316		22	1	1351	TYRE & HUB ASSEMBLY - 70mm	
51#	4	9388	BOLT M20x60 C10.9 ZP			1	1352	TYRE & HUB ASSEMBLY - 50mm	Optional
52#	4	9389	HEX NUT M20 C10.9 ZP			1	8872	TYRE & HUB ASSEMBLY - 90mm	Optional
53	2	9415	BOLT M12x55 GR8.8 ZP			1	11543	TYRE & HUB ASSEMBLY - V PROFILE	Optional
54	1	9485	SCREW HEX HEAD M8x30 C8.8 ZP			1	028256	TYRE & HUB ASSEMBLY - 310 x135	Optional
55	1	9737	CUP HEAD SQUARE NECK BOLT M10 x 25 GALV		23*	1	1368	PIN SHANK PIVOT - DIA30 x LGTH102	
56	2	9738	CUP HEAD SQUARE HEAD BOLT M12x40 ZP		24	1	1421	SPRING - TENSION 6.3 x 45 x 120	
57	1	9739	NUT M10 NYLOC GALV		25	1	1436	PIN - 25 x75 JUMP CYL ROD END	
58	2	9740	NUT M12 NYLOC GALV		26	1	1437	CHEEK PLATE - LEFT	
59	1	9141	WASHER FLAT M10 - ZP		27	1	1438	CHEEK PLATE ASSEMBLY - RIGHT	

7.0 COULTER ASSEMBLY



Ausplow Technical Service Manual

REVISION HISTORY				Item	Qty	Cod	Grp	Part No	Description
REV	DESCRIPTION	DATE	APPROVED	1	2	CA	03	3022	CIRCLIP EXT- DIN 471 - 20 x 1.2
1	GP-24-9207 REPLACED WITH GP-24-9408	13/02/2008	SR	2	1	CA	03	3023	CIRCLIP EXT- DIN 471 - 32 X 1.5
2	GP-20-9209, GP-20-9210 AND GP-24-9408 REPLACED WITH CA-03-3022, CA-03-3023 AND AF-02-3168	6/04/2011	SR	3	1	CA	01	3106	CONTROL BLOCK MOUNTING PIN
				4	1	CA	01	3109	COULTER PIVOT PIN
				5	2	CA	01	3112	COULTER THRUST WASHER
				6	2	CA	01	3129	SLEEVE SPRING MOUNT
				7	1	CA	01	3142	SW/MEL ASSY - COMPLETE
				8	1	CA	01	3143	OUTER TUBE ASSY
				9	1	CA	01	3144	INNER TUBE ASSY
				10	1	CA	01	3153	SPRING- DIA 10 x 440mm LG
				11	1	CA	01	3154	ADJUSTMENT ROD
				12	2	CA	01	3161	SIDE ARM - COULTER
				13	1	CA	01	3165	PIN - SPRING TOP
				14	1	CA	01	3166	PIN - SPRING LOWER
				15	4	AF	02	3168	ROLL PIN DIA 8 X 40
				16	2	GP	02	9002	NUT - M20 - ZP - CONELOCK
				17	2	GP	02	9041	NUT M20 C8 ZP

RELEASED

DIMENSIONS IN MILLIMETERS		N/A		AUSPLOW Pty Ltd PH: 08 9417 8877	
Max. Force	0 = ±0.25	Max. Force	0 = ±1.0	Black Paint	
Max. Torque	0.0 = ±0.1	Max. Torque	0.0 = ±0.5	Checked	21/09/2001 TJP
Max. Temp	0.00 = ±0.05	Max. Temp	UNO	Drawn	10/12/2004 RM
Max. Humidity	UNO	Max. Humidity	UNO	Checked	28/07/2014 CBV
Max. Altitude	UNO	Max. Altitude	UNO	Used	28/07/2014 CF
Max. Vibration	UNO	Max. Vibration	UNO	Mfg. App	28/07/2014 GA

REVISION HISTORY				Item	Qty	Cod	Grp	Part No	Description
REV	REF No	DESCRIPTION	DATE	APPROVED	1	1	CA	03	3023
1	ECR 1278	CA-03-3022 REMOVED, AF-02-3168 QTY 6 WAS 4	31/07/2014	CF	2	2	CA	01	3112
2	ECR 2065	CA-01-3063 UPDATED	18/04/2019	CF	3	1	CA	01	3129

RELEASED

DIMENSIONS IN MILLIMETERS		15.9 kg		AUSPLOW Pty Ltd PH: 08 9417 8877	
Max. Force	0 = ±0.25	Max. Force	0 = ±1.0	Black Paint	
Max. Torque	0.0 = ±0.1	Max. Torque	0.0 = ±0.5	Checked	18/11/2008 CBV
Max. Temp	0.00 = ±0.05	Max. Temp	UNO	Drawn	18/11/2008 RM
Max. Humidity	UNO	Max. Humidity	UNO	Checked	18/04/2019 CE
Max. Altitude	UNO	Max. Altitude	UNO	Used	18/04/2019 CF
Max. Vibration	UNO	Max. Vibration	UNO	Mfg. App	18/04/2019 GA

