

#07020

McCloum

4RSPH w/ 65" - Tank - AFE Tank -  
Leveling

#07020

MC CRUM FARMS

8/8/2007

4RSPH W/ 65" - TANK

PLUG #1

PIN #

1	YELLOW	92	CB 1 to HAZARD STAT to SWITCH	
2	GREEN	91	CB 2 TO AIR HEAD CLEANER / BIN FILL SWITCHES	
3	ORANGE	90	CB 3 TO MASTER SWITCH	
4	BLACK	017	CB4 TO BRAKE, STEER, WARNING, SPEEDOMETER	
5	RED	081	CB 10 TO FUEL PUMP SWITCH	
6	YELLOW	89	CB5 TO MASTER SWITCH	
7				
8	BLACK	0012	CB7 TO 2-SPEED	
9	BLACK	0017	BRAKE SWITCH TO BRAKE SOLENOID	BLACK 17
10	BROWN	88	CB11 TO ROAD / BACK UP LIGHTS SWITCH	
11	WHITE	85	CB12 to ACTUATOR SWITCHES	
12	RED	81	FUEL PUMP SWITCH TO FUEL PUMP	
13	PURPLE	28	A-H CLEANER AUTO TO TIMER #10	
14	WHITE	27	A-H CLEANER MANUAL TO TIMER #9 TO SOLENOID	
15	BLUE	26	A-H CLEANER MANUAL TO TIMER #8 TO SOLENOID	
16	BROWN	46	BIN UNLOAD RDRS112-30 ACTUATOR	
17	GREEN	45	BIN UNLOAD RDRS112-30 ACTUATOR	
18	RED	29	STROBE LIGHT	
19	YELLOW	33	PRIMARY SHAKER RDRS112-30 ACTUATOR	
20	RED	32	PRIMARY SHAKER RDRS112-30 ACTUATOR	
21	RED	70	AIR HEAD FEED RDRS112-30 ACTUATOR	
22	PURPLE	69	AIR HEAD FEED RDRS112-30 ACTUATOR	
23	RED	52	CB 16 TO FOOT SWITCHES 12VDC	
24	PURPLE	83	FOOT SWITCHES TO STEERING BOX	
25	RED	108	STONE BOX MV5 VALVE	
26	BLACK	109	STONE BOX MV5 VALVE	
27	YELLOW	116	COULTER MV5 (ORANGE 41) JUNCTION BOX	
28	BROWN	117	COULTER MV5 JUNCTION BOX	
29	BLACK	95	AIR HEAD DEFLECTOR MOTOR MV5 VALVE	
30	RED	00028	10-AMP FAST ACTING FUSE TO-CAMERA SYSTEM	P.S.S. - 1
31	BLACK	00015	PANEL GROUND TO-CAMERA SYSTEM-GROUND	P.S.H. - 2
32	BROWN	0088	BACKUP WARNING SWITCH IN CAB TO TO ALARM	
33	BROWN	088	CB 11 TO BACKUP WARNING SWITCH IN CAB	
34	WHITE	96	AIR HEAD DEFLECTOR MOTOR MV5 VALVE	
35	WHITE	65	LEFT STAR RDRS112-30 ACTUATOR	
36	PURPLE	66	LEFT STAR RDRS112-30 ACTUATOR	
37	ORANGE	50	BIN UNLOAD BYPASS SV3-16-0-12T-12DG SOLENOID	

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## PLUG 2

## PIN #

1	BROWN	153	LEFT PRIMARY REVERSE	
2	ORANGE	154	RIGHT PRIMARY REVERSE	
3	BLACK	059	PARK SWT. TO 14(5)/15(5) RED 0015 TO SMX TO SV4-10-0	
4	YELLOW	752	HYDRAULIC OIL TEMPERATUR SENSOR TO CAB	YELLOW 752
5				
6	GREEN	155	SECONDARY / DEVINER REVERSE	
7	BROWN	54	RIGHT TURN SIGNAL	
8	YELLOW	53	LEFT TURN SIGNAL	
9	BROWN	6	BACK-UP LIGHT SWITCH TO RELAY	
10	BROWN	505	RIGHT WORK LIGHT SWITCH TO RELAY	BROWN 505
11	YELLOW	753	HYD. OIL TANK GAUGE TO TANK GROUND	YELLOW 753
12	BLACK	1	4 X 4 SWITCH TO RELAY	
13	BLACK	12	2-SPEED SWITCH TO SOLENOID	
14	BROWN	21	TRASH FAN SWITCH TO SOLENOID	
15	BROWN	11	BIN FILL SWITCH TO DTS-0373B (A) SOLENOID	
16	YELLOW	5	SIDE CONVEYOR SWITCH TO DTS-0373B (A) SOLENOID	
17	BROWN	16	CROSS CONVEYOR SWITCH TO DTS-0373B (A) SOLENOID	
18	RED	82	STAR / STEEL ROLLS SWT. TO 3 DTS-0373B (B) SOL'S.	
19	YELLOW	156	LT. PRIM. REV. SWT. TO REV. VALVE - REVERSE	
20	YELLOW	15	FAN RETURN FILTER #3 TO LIGHT	
21	BLUE	3	GROUND-DRIVE HI-PRESSURE FILTER #3 TO LIGHT	
22	YELLOW	20	HYDRAULIC LEVEL SENSOR TO CAB (BZL-12)	
23	WHITE	61	CROSS/STAR TABLE CONV. PRESS. SWITCH N.O. TO CAB (BZ 6562)	
24	BLACK	22	BIN / BULK SWT. TO DTS-0373B (A) SOLENOID	
25	ORANGE	143	CB7 TO HYDRO NEUTRAL SWITCH #1	
26	ORANGE	144	HYDRO NEUTRAL SWITCH #2 TO PANEL RELAY	
27	RED	157	RT/ PRIM. REV. SWST. TO REV. VALVE. - REVERSE	
28	GREEN	607	DTS-0160 TO CAB SPEEDOMETER	GREEN 607
29	RED	149	STEEL ROLLS RDRS112-30 ACTUATOR	
30	YELLOW	150	STEEL ROLLS RDRS112-30 ACTUATOR	
31	ORANGE	145	STAR DIST.ROLLS SWT. TO RDRS112-30 ACTUATOR	
32	BLUE	146	STAR DIST.ROLLS SWT. TO RDRS112-30 ACTUATOR	
33	ORANGE	147	HUMP SHAFT ACTUATOR	
34	BLUE	148	HUMP SHAFT ACTUATOR	
35	BLACK	151	STAR TABLE SPACING ACTUATOR	
36	GREEN	425	TEMP. SENDER PRIMARY CIRCUIT TO CAB	GREEN 425
37	RED	152	STAR TABLE SPACING ACTUATOR	

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**PLUG 3**

**PIN #**

**[LG 16]**

1	18	RED	CB6 TO WIPER	
2	12	RED	CB6 TO RADIO	
3				
4	20	BLACK	GROUND	
5	503	BROWN	LIGHT SWITCH ROAD POSITION TO RELAY #5-86	
6	22	RED	CB8 TO DOME LIGHT/PANEL/LITE SWT/RADIO MEM ( ST87 HOT )	
*7	507	BROWN	CAB FIELD LIGHT RELAY TO CAB FIELD LIGHTS #4-30	
8	572	BROWN	WORK LIGHT SWITCH TO LEFT WORK LIGHTS RELAYS	
9				
*10	526	BROWN	CAB ROAD LIGHT RELAY TO CAB LIGHTS #5-30	
11	652	BLUE	FUEL TANK SENDER TO GAUGE	WHITE 58
12	022	RED	CB8 TO RED 022 IN POWERVIEW HARNESS	
13	422	RED	STARTER RELAY TO POWERVIEW HARNESS	
14	504	BROWN	CAB FIELD LIGHT POSITION TO RELAY #4-86	
*15	156	BLACK	CB15 TO AUXILLARY OUTLET BOX 12 AWG	
16	437	GRN.	PRIM. CIRCUIT TEMP. GAUGE TO GRD. AT SENDER	

4RSPH W/ 65" - TANK

PLUG 4

SW#/PIN#

	1 RED	21	CB7 TO PIN 4 ON GAUGE PANEL		
1	2 BLACK	BLACK	OUTER BOOM MV5 VALVE	ORANGE	110
1	3 RED	RED	OUTER BOOM MV5 VALVE	BLUE	111
2	4 ORANGE	ORANGE	BOOM LIFT MV5 VALVE	WHITE	112
2	5 BLUE	BLUE	BOOM LIFT MV5 VALVE	BROWN	113
3	6 BLK/WHT	YELLOW	BOOM SWING MV5 VALVE	PURPLE	114
3	7 RED/WHT	BROWN	BOOM SWING MV5 VALVE	GREEN	115
4	8 BLU/WHT	VIOLET	BLADE JUNCTION BOX	RED	118
4	9 GRN/WHT	GRAY	BLADE JUNCTION BOX	BLACK	119
5	10 ORG/BLK	WHT/BRN	LEFT BLADE JUNC. BOX	ORANGE	29
5	11 BLU/BLK	WHT/BLK	LEFT BLADE JUNC. BOX	BLUE	30
6	12 RED/BLK	WHT/RED	RIGHT BLADE JUNC. BOX	WHITE	35
6	13 GRN/BLK	WHT/YEL	RIGHT BLADE JUNC. BOX	BROWN	370
	14 BLUE	55	LEFT CRAB FOOT SWITCH TO STEERING BOX RELAY		
	15 GREEN	605	A.H. FAN RPM PICKUP TO TOC 8 ( WHITE C 1:9 ) TO CAB		
	16 ORANGE	56	RIGHT CRAB FOOT SWITCH TO STEERING BOX RELAY		
	17 BROWN	37	RIGHT STAR TABLE RDRS112-30 ACTUATOR		
	18 GREEN	38	RIGHT STAR TABLE RDRS112-30 ACTUATOR		
	19 BLUE	71	BIN FILL MAN. SWITCH TO TOC 8 ( DOWN )		
	20 ORANGE	72	BIN FILL MAN. SWITCH TO TOC 8 ( UP )		
	21 RED	75	BIN FILL AUTO. SWT. TO TOC 8 PANEL JUNCTION BLOCK		
	22 WHITE	41	TRAVEL MODE SWITCH TO TOC 8		
	23 WHITE	371	A.H. & BIN LEVEL TOC 8 TO WARNING LIGHT IN ARMREST		
	24 WHITE	372	CROSS & SIDE LEVEL TOC 8 TO WARN. LIGHT IN ARMREST		
	25				
	26				
	27				
	28				
	29 PURPLE	160	BOOM REVERSE		
	30 WHITE	161	AIR HEAD FEED REVERSE		
	31 BROWN	162	CROSS REVERSE		
	32				
	33				
	34				
	35				
	36 BLACK	020	CYBER TECH HANDLE TO PANEL GROUND	GREEN	
	37 GREEN	091	CB2 TO CYBER TECH HANDLE	WHITE	

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**COLUMN PLUG  
MC CRUM FARMS**

8/8/2007

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**PLUG 5**

PIN #		COLUMN PLUG		
1	11	RED	ST 87 HOT SIDE TERMINAL	
3	13	RED	ST 87 IGINATION TERMINALS	
4	502	BROWN	POWER FROM TURN STAT	502 TO 507
5	104	WHITE	CLUTCH SWITCH N.C. TO RELAY	
14	059	BLACK	TO CLUTCH SWITCH N.O. POSITON TO 15 ( 5 )	
15	0015	RED	TO SMX SWITCH - "COM" / N.O. ON SMX RED 15 TO SV4 SOLENOID	
18	522	BROWN	RIGHT TURN SIGNAL - BROWN 54 ON MACHINE	512 TO 522
20	523	BROWN	LEFT TURN SIGNAL - YELLOW 53 ON MACHINE	513 TO 523

**CAN-TRAC DISPLAY  
CAB CORNER PIN-OUT**

PIN #			
1	BLACK		BELDEN 8762
2	CLEAR		BELDEN 8762
3	RED	0028	12VDC FROM DISTRIBUTION PANEL
4	BLACK	0015	GROUND TO DISTRIBUTION PANEL

## 4RSPH W/ 65" - TANK

## PLUG #6

1	BLACK	AIR HEAD CONTROLLER POWER SUPPLY PIN "4"
2	RED	
3	ORANGE	AIR HEAD CONTROLLER COMMAND SIGNAL PIN "2"
4	BLUE	AIR HEAD CONTROLLER COMMAND SIGNAL PIN "3"
5	BLACK / WHITE	LEFT / RIGHT PRIMARY CONTROLLAER POWER SUPPLY PIN "8"
6	RED / WHITE	
7	BLUE / WHITE	LEFT PRIMARY CONTROLLER COMMAND SIGNAL PIN " 6 "
8	GREEN / WHITE	LEFT PRIMARY CONTROLLER COMMAND SIGNAL PIN " 7 "
9	ORANGE / BLACK	
10	BLUE / BLACK	RIGHT PRIMARY CONTROLLER COMMAND SIGNAL PIN "10"
11	RED / BLACK	RIGHT PRIMARY CONTROLLER COMMAND SIGNAL PIN "11"
12	GREEN / BLACK	SECONDARY CONTROLLER POWER SUPPLY PIN "16"
13	WHITE	
14	GREEN	SECONDARY CONTROLLER COMMAND SIGNAL PIN "14"
15	WHITE / BLACK	SECONDARY CONTROLLER COMMAND SIGNAL PIN "15"
16		

LEFT / RIGHT PRIMARY - SECONDARY -- COIL #2 PIN "D" TO GROUND  
AIR HEAD -- COIL #1 PIN "B" TO GROUND

**ELECTRONIC GAUGES**

#07020

**MC CRUM FARMS  
4RSPH W/ 65" - TANK**

**8/8/2007**

SCREEN	1	GROUND DRIVE	10,000#
		LEFT PRIMARY	5,000#
		RIGHT PRIMARY	5,000#
		SECONDARY	5,000#
SCREEN	2	GROUND DRIVE CHARGE	1,000#
		AIRHEAD CHARGE	1,000#
		PRIMARY CHARGE PRESSURE	<del>1,000#</del>
		SECONDARY CHARGE	600#
SCREEN	3	AIRHEAD	10,000#
		BRAKE CHARGE	1,000#
		STEERING	3,000#
SCREEN	4	RIGHT STAR	3,000#
		LEFT STAR	3,000#
		STAR TABLE DIST.	3,000#
		CROSS	3,000#
SCREEN	5	SIDE	3,000#
		BIN FILL	3,000#
		BIN UNLOAD	3,000#



Project: OHIO Power Systems

5.1 Sensor Scaling

All data scaling for each of the displayed parameters will be done within the CANtrak S/W & the GPSI shall transmit raw (unscaled) data acquired from the sensors.

The pressure sensors are assumed to produce an output signal in the range 0-10V with the max. pressure producing the max. voltage.

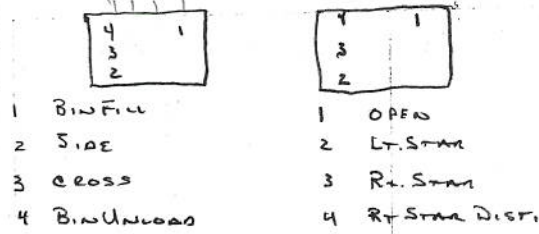
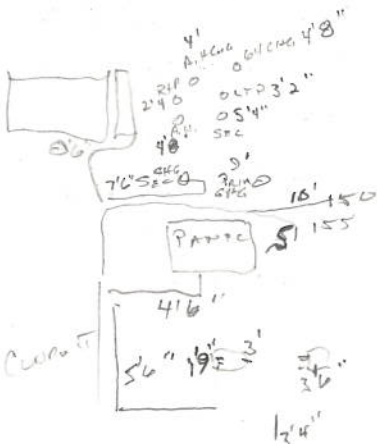
The ranges and the scaling factors applied to the parameters described above are detailed below.

Only the initial digits of the part number are specified as the remaining requirements are not known.

BELDEN 9444 20AWG 4C

254.3

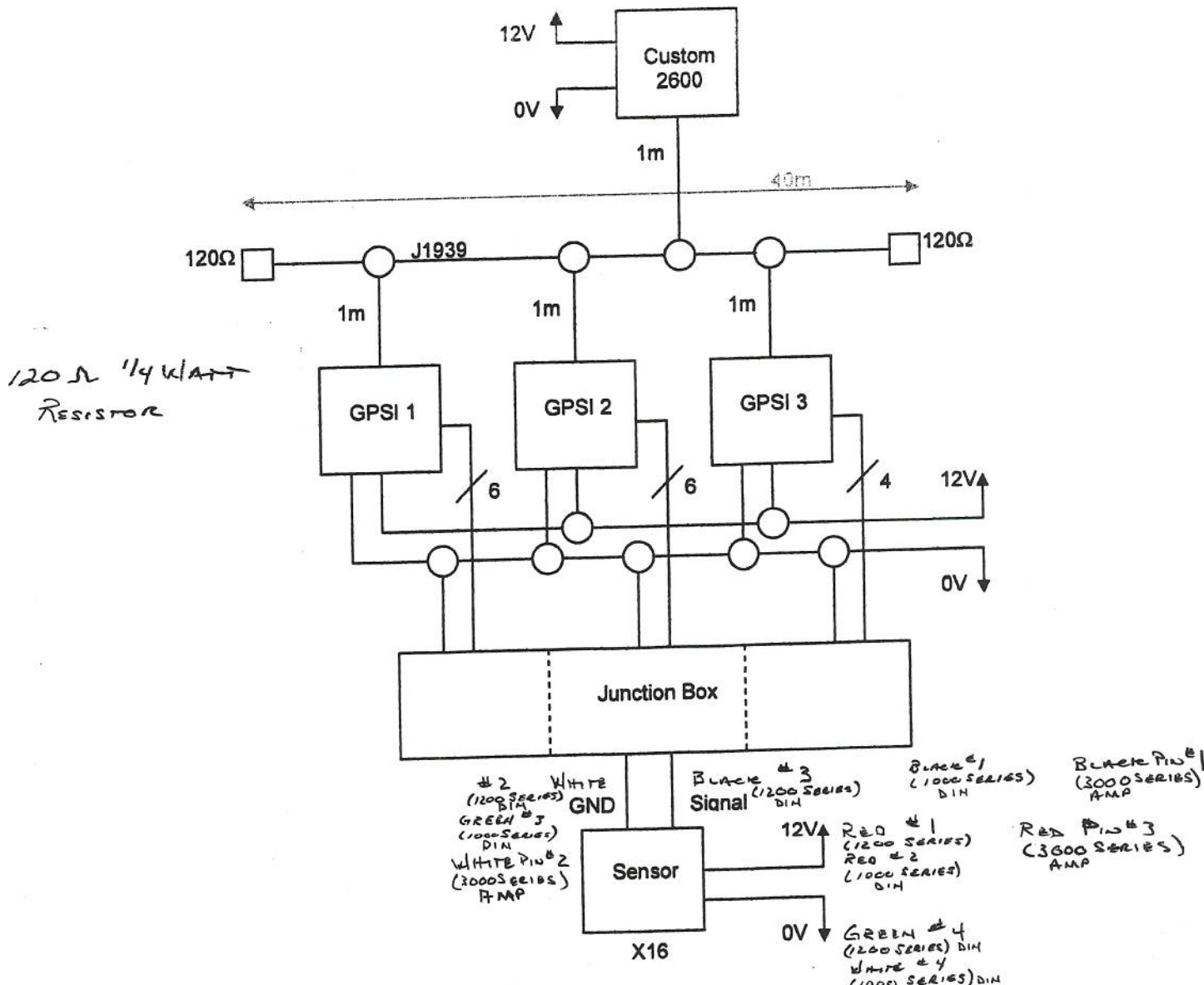
GPSI	INPUT
1	A1 GROUND DRIVE
	A2 LEFT PRIMARY
	A3 RIGHT PRIMARY
	A4 SECONDARY
	A5 GROUND DRIVE CHG. PRESS.
	A6 FTR HEAD CHARGE PRESS.
	A7 PRIMARY CHARGE PRESS.
2	A1 SECONDARY CHARGE PRESS.
	A2 FTR HEAD
	A3
	A4 BRAKE CHARGE PRESS.
	A5 STEERING
	A6 RIGHT STAR TABLE
	A7 LEFT STAR TABLE
3	A1 STAR TABLE DISTRIBUTOR
	A2 CROSS
	A3 SIDE
	A4 BIN FILL
	A5 BIN UNLOAD
	A6
	A7



3000 SERIES (WEATHER DAKE (BINNOR) 3000PSI  
 Pin # 1 TOP BLACK  
 2 GV(1/2) WHITE  
 3 + IN RED

Project : OHIO Power Systems

# 6 Appendix A – Circuit Block Diagram for CANtrak & GPSI to OHIO Power System's Sensors



The CAN bus should be a shielded twisted pair, with impedance 120Ω. The shield ground should be connected to 0V.

'CAN+' (App.B GPSI Connector B pin 6) and 'CAN HI' (App.C CANtrak pin 8) should be linked.

'CAN -' (App.B GPSI Connector B pin 7) and 'CAN LO' (App.C CANtrak pin 7) should be linked.

GPSI Ground (App.B Connector B pin 1) and CANtrak Ground (App.C CANtrak pin 1) should be common.

GPSI Power (App B Connector B pin 12) should be tied to +12V.

OUT+ of each sensor should be connected to the relevant Analog input on GPSI (see 4.1)

Each sensor's Ground and Earth should be common and IN+ tied to 12V.

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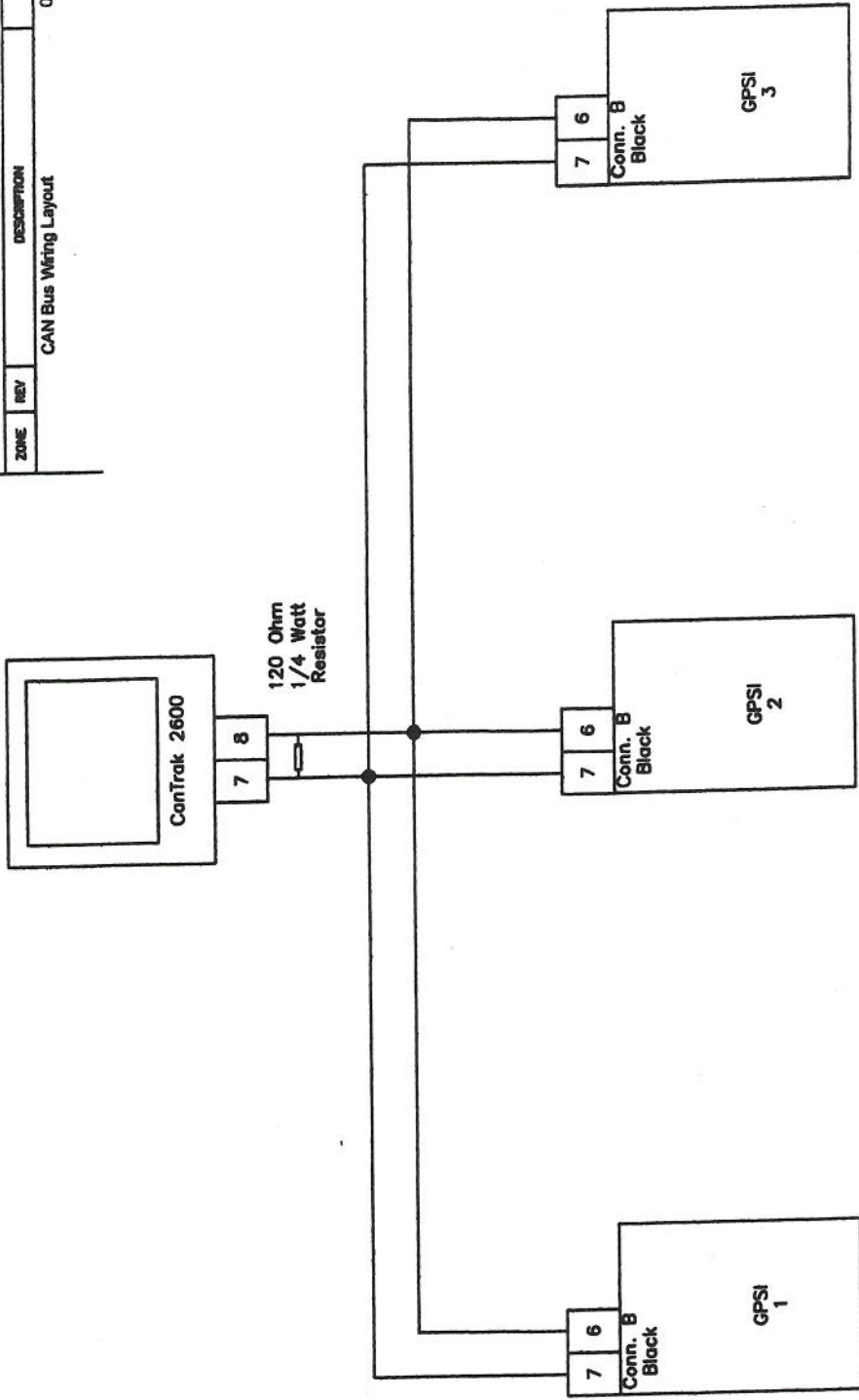
# GPSI Cable Harness Connections

Deutsch pin#	GRAY	Connector A. Function	GPSI 1 A	GPS 2 A	GPS 3 A
1		Ground	GREEN TO GRD BAR		
2		Fuel Sensor 1			GREEN TO GRD BAR
3		Analogue Input 7	PRIMARY CHARGE	LEFT STAR TABLE	BLACK 2-7
4		Analogue Input 5	GRD DRIVE CHARGE	STEERING	BLACK 2-5
5		Analogue Input 3	RIGHT PRIMARY		BIN W/LOAD SIDE
6		Analogue Input 1	GROUND DRIVE	SECONDARY	BLACK 2-1
7		Analogue Input 2	LEFT PRIMARY	AIRHEAD	CROSS TABLE DIST
8		Analogue Input 4	SECONDARY	BORNE CHG PRESS.	CROSS
9		Analogue Input 6	A.H. CHARGE	RIGHT STAR TABLE	BIN FIL
10		Fuel Sensor 2			BLACK 2-6
11		Fuel Sensor Supply			
12		Voltage Reference	...		RED TO JUNE BLOCK 3

Deutsch pin#	Function	BLACK	Connector B.	GPSI 2 B	GPSI 3 B
1	Ground			GREEN TO GRD BAR	
2	Digital Output				
3	Tach H				
4	RS232 TxD / RS485A / J11708A				
5	CAN Supply + (isolated version only)				
6	CAN H				
7	CAN L				
8	RS232 RxD / RS485B / J1708B				
9	Tach L				
10	Battery Sense				
11	Supply +				
12					

7 @ 910 1112  
 654321

REVISIONS			DATE	APPROVED
ZONE	REV	DESCRIPTION	01-21-05	
		CAN Bus Wiring Layout		



<b>Acemarc, Inc.</b>		Advanced Farm Equipment HARVESTER	
Automation & Machinery Repair 1 888-860-TECH		CANtrak 2600/GPS1 IO CAN Bus Wiring	
SIZE	PSCM NO.	DWG NO.	REV
B			1
SCALE		SHEET 1 of 1	
11136 Holshoe Rd Homerville, Ohio 44235			

Project : OHIO Power Systems

# 7 Appendix B - GPSI Pinouts

The GPSI housing contains 2 Deutsch 12 pin connectors that contain all power & signal connections as detailed below.

Connector A (Grey)	
Signal	Pin Number
1	Ground
2	Switched Input 1
3	Analogue Input 7
4	Analogue Input 5
5	Analogue Input 3
6	Analogue Input 1
7	Analogue Input 2
8	Analogue Input 4
9	Analogue Input 6
10	Switched Input 2
11	Fused +5V Supply Output
12	4.096V Reference Supply Output

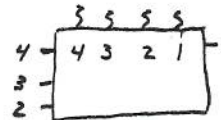
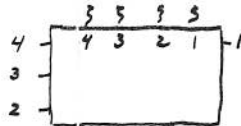
Connector B (Black)	
Signal	Pin Number
1	Ground
2	Digital Output
3	Tachometer High Input
4	RS232 Tx
5	* CAN Power Input +
6	CAN Bus High
7	CAN Bus Low
8	* CAN Power Input -
9	RS232 Rx
10	Tachometer Low Input
11	High Voltage Input
12	Power Supply Input +

BELDEN 9444  
TRANSDUCER WIRING

3000 SERIES  
AMP CONNECTOR

DFS-0373 B

PIN # 1 +OP BLACK  
2 OV( $\frac{E}{E}$ ) WHITE  
3 +IN RED



1

1

2

2

3

3

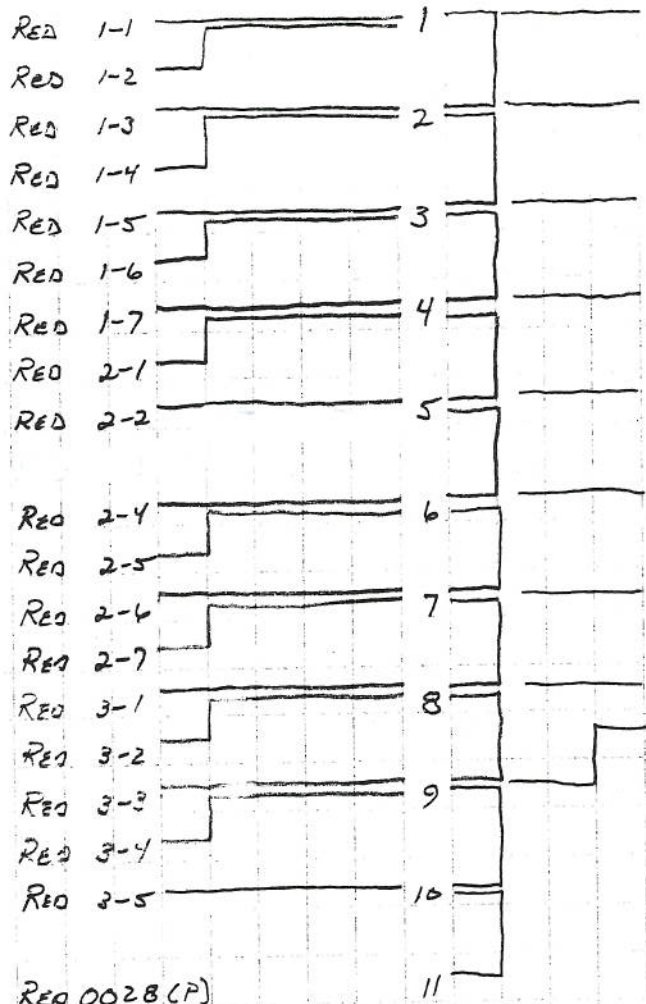
4

4

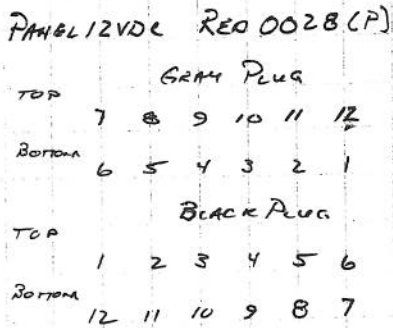
(6/20/05) 2/20/06

Gauge GPSI's (19 GAUGES)  
JUNCTION BLOCK

GRAY PLUG  
 2 2 5  
 1



Wire Label	Pin	Plug Color
GPSI-1A RED - Pin 12	12	GRAY PLUG
GPSI-2A RED - Pin 12	12	GRAY PLUG
GPSI-3A RED - Pin 12	12	GRAY PLUG
GPSI-1B RED - Pin 12	12	BLACK PLUG
GPSI-2B RED - Pin 12	12	BLACK PLUG
GPSI-3B RED - Pin 12	12	BLACK PLUG
GPSI-1B RED - Pin 5	5	BLACK PLUG
GPSI-2B RED - Pin 5	5	BLACK PLUG
GPSI-3B RED - Pin 5	5	BLACK PLUG



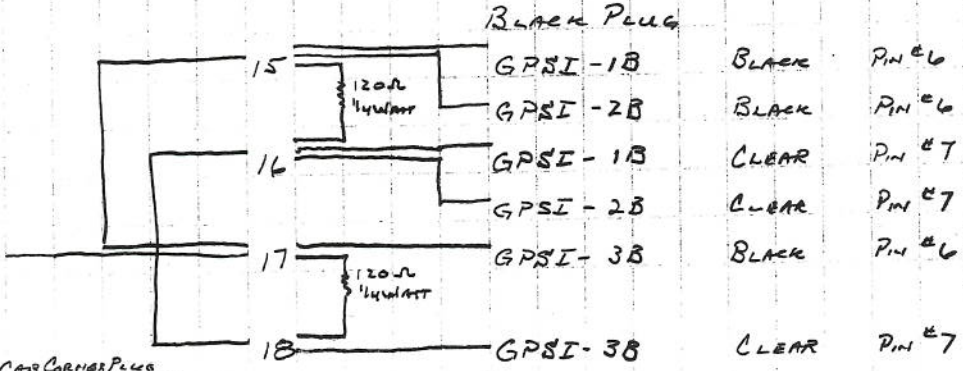
GROUND BAR

Wire Label	Pin	Plug Color
GPSI-1A - BLACK	Pin-1	GRAY
GPSI-1B - BLACK	Pin-1	BLACK
GPSI-2A - BLACK	Pin-1	GRAY
GPSI-2B - BLACK	Pin-1	BLACK
GPSI-3A - BLACK	Pin-1	GRAY
GPSI-3B - BLACK	Pin-1	BLACK
GPSI-1B - BLACK	Pin-8	BLACK
GPSI-2B - BLACK	Pin-8	BLACK
GPSI-3B - BLACK	Pin-8	BLACK

BLACK 0015(P)

Pin #8  
CANTRAC - BLACK

Pin #7  
CANTRAC - CLEAR

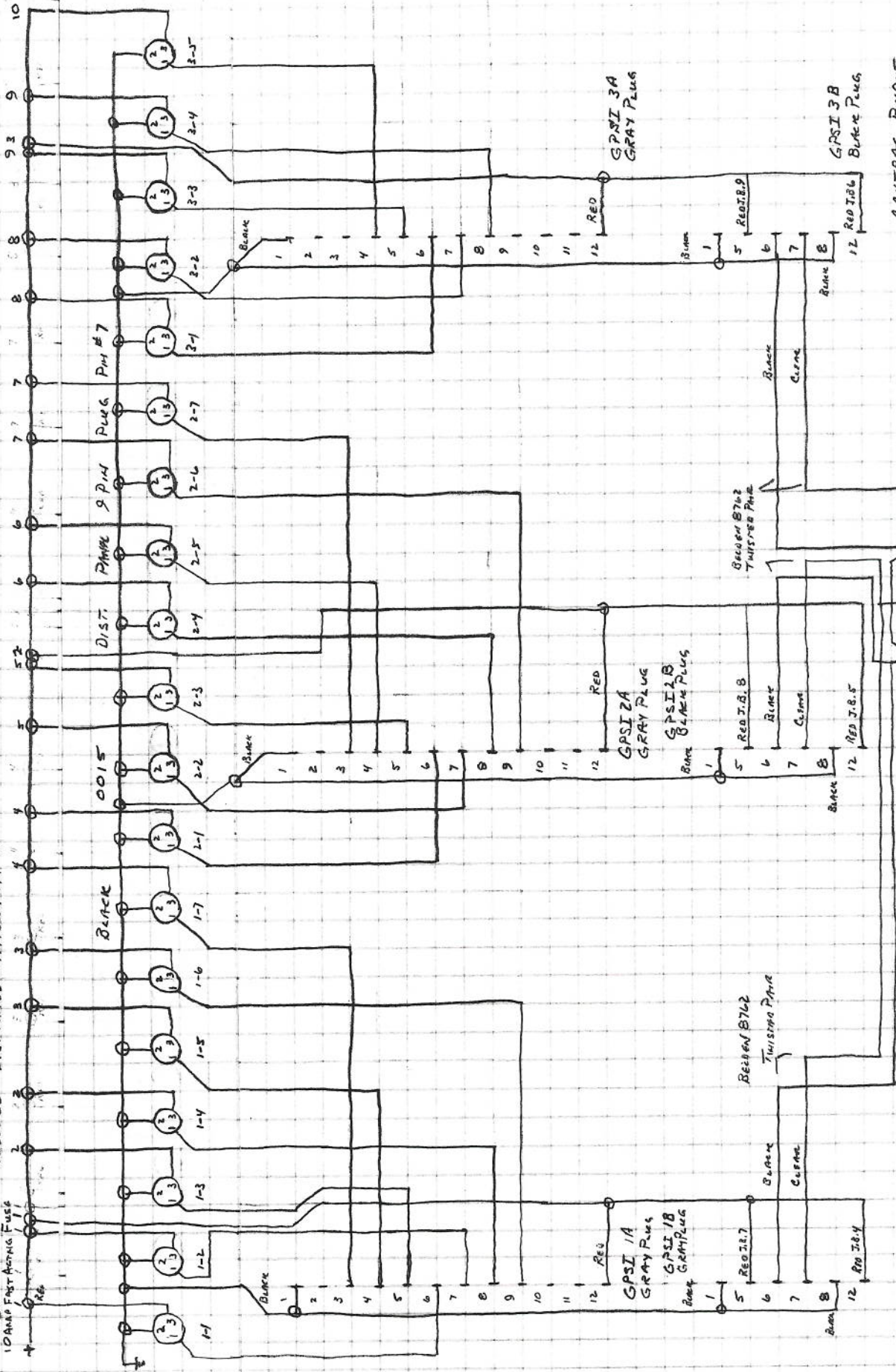


CANTRAC PLUS  
 Pin 1 BLACK - CANTRAC  
 2 CLEAR - CANTRAC  
 3 BLACK DIS P  
 4 RED 02B - P 12VDC

JUNCTION BLOCK #11  
 12VDC +  
 10 AMP FAST ACTING FUSE

RED002B DIS. PANEL 5 PIN PLUG, PIN #6

12VDC JUNCTION BLOCK



CAB CONNECTION

- PIN 1 BLACK TWISTED PAIR
- 2 CLEAR TWISTED PAIR
- 3 RED 12VDC - PANEL
- 4 BLACK 12VDC - PANEL

CANTRAC MOTOR

- 1 2-WIRE BIF. PINS IN DIS. PANEL PLUG
- 2 RED 0.28 PINS IN DIS. PANEL PLUG
- 7 RED 0.28 PINS IN DIS. PANEL PLUG

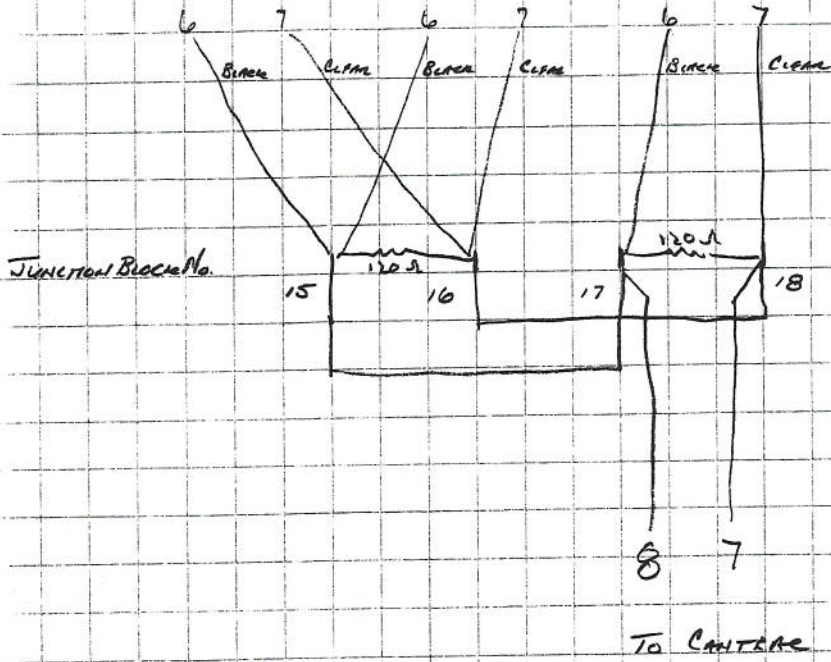
GSELEN 8762  
 TWISTED PAIR

GSELEN 8762  
 TWISTED PAIR

GPSI Plug  
1 B (Blue)

GPSI Plug  
2 B (Blue)

GPSI Plug  
3 B (Blue)



BELDEN 8762 20AWG 2C TWISTED



For Chris

ADVANCED FARM EQUIPMENT 19 GAUGE GPSI LAYOUT

CABLE NUMBER

GROUND DRIVE , // A1 - GPSI 1 1-1  
 LH PRIMARY , // A2 1-2  
 RH PRIMARY , // A3 1-3  
 SECONDARY , // A4 1-4  
 GD CHARGE , // A5 1-5  
 AIRHEAD CHARGE , // A6 1-6  
 PRIMARY CHARGE , // A7 1-7

SECONDARY CHARGE , // A1 - GPSI 2 2-1  
 AIRHEAD , // A2 2-2  
 ROCK CRUSHER , // A3 2-3  
 BRAKE CHARGE , // A4 2-4  
 STEERING , // A5 2-5  
 RH STAR , // A6 2-6  
 LH STAR , // A7 2-7

STAR TABLE DIST , // A1 - GPSI 3 3-1  
 CROSS , // A2 3-2  
 SIDE , // A3 3-3  
 BIN FILL , // A4 3-4  
 BIN UNLOAD , // A5 3-5  
 UNUSED , // A6  
 UNUSED , // A7

};

# Fax

To: **AFE** From: **HJV**  
 Fax: **989-268-5630** Pages:  
 Phone: Date: **5-4-05**  
 Re: **LEVESQUE** CC: **LAYOUT**

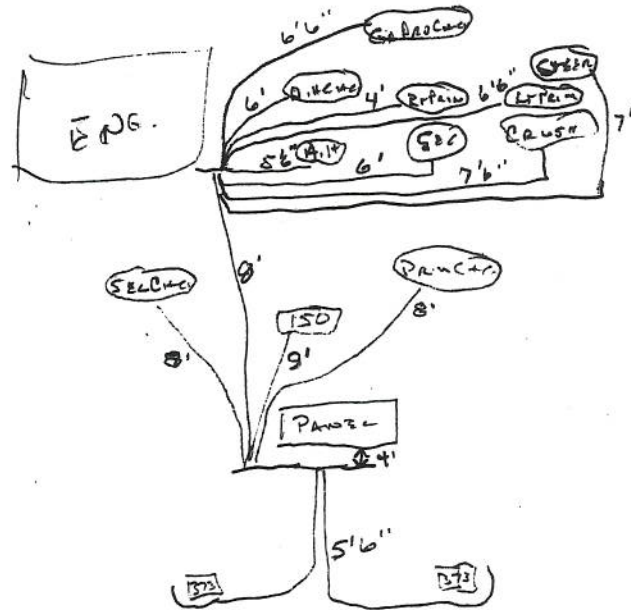
Urgent     For Review     Please Comment     Please Reply     Please Recycle

• Comments:

#05007 LEVESQUE  
#06009 TOBIQUE

THIS WOULD BE MY CHOICE FOR LAYOUT

- 1 GROUND DRIVE
- 5 LH PRIMARY
- 6 RH PRIMARY
- 8 SECONDARY
  
- 2 GROUND DRIVE CHARGE
- 7 AIRHEAD CHARGE
- 4 PRIMARY CHARGE
- 10 SECONDARY CHARGE
  
- 3 AIRHEAD
- 9 ROCK CRUSHER (#05007)
- 18 BRAKE CHARGE
- 19 STEERING
  
- 11 RT STAR
- 17 LH STAR
- 12 STAR TABLE DIST
- 13 CROSS
  
- 14 SIDE
- 15 BIN FILL
- 16 BIN UNLOAD



**Alliston Location: (Head Office)**  
 R.R. 23, 5770 County Road 615  
 Alliston, Ont. L9R 3V3  
 705.435.3226 • FAX 705.435.8893

**Hershall Location:**  
 72090 London Road, R.R. #1  
 Hershall, Ont. N6M 1X0  
 519.263.2450 • FAX 519.263.2455  
 www.hjv.ca

**Grand Falls Location:**  
 10109-100 #2, D5L  
 De St. Andre, NB E5Y 2H6  
 506.473.5557 • FAX 506.473.5874

#07020

**ELECTRONIC GAUGES  
MC CRUM FARMS  
4RSPH W/ 65" - TANK  
ENCLOSURE PINOUTS**

8/8/2007

**PLUG #1**

PIN #1	1-1	BLACK	GROUND DRIVE
2	1-1	WHITE	GROUND DRIVE
3	1-1	RED	GROUND DRIVE
4	1-2	BLACK	LEFT PRIMARY
5	1-2	WHITE	LEFT PRIMARY
6	1-2	RED	LEFT PRIMARY
7	1-3	BLACK	RIGHT PRIMARY
8	1-3	WHITE	RIGHT PRIMARY
9	1-3	RED	RIGHT PRIMARY
10	1-4	BLACK	SECONDARY
11	1-4	WHITE	SECONDARY
12	1-4	RED	SECONDARY

**PLUG #2**

PIN #1	1-5	BLACK	GROUND DRIVE CHARGE PRESSURE
2	1-5	WHITE	GROUND DRIVE CHARGE PRESSURE
3	1-5	RED	GROUND DRIVE CHARGE PRESSURE
4	1-6	BLACK	AIR HEAD CHARGE PRESSURE
5	1-6	WHITE	AIR HEAD CHARGE PRESSURE
6	1-6	RED	AIR HEAD CHARGE PRESSURE
7	1-7	BLACK	PRIMARY CHARGE PRESSURE
8	1-7	WHITE	PRIMARY CHARGE PRESSURE
9	1-7	RED	PRIMARY CHARGE PRESSURE
10	2-1	BLACK	SECONDARY CHARGE PRESSURE
11	2-1	WHITE	SECONDARY CHARGE PRESSURE
12	2-1	RED	SECONDARY CHARGE PRESSURE

**PLUG #3**

PIN #1	2-2	BLACK	AIR HEAD
2	2-2	WHITE	AIR HEAD
3	2-2	RED	AIR HEAD
4	2-3		
5	2-3		
6	2-3		
7	2-4	BLACK	BRAKE CHARGE PRESSURE
8	2-4	WHITE	BRAKE CHARGE PRESSURE
9	2-4	RED	BRAKE CHARGE PRESSURE
10	2-5	BLACK	STEERING
11	2-5	WHITE	STEERING
12	2-5	RED	STEERING

#07020

**ELECTRONIC GAUGES  
MC CRUM FARMS  
4RSPH W/ 65" - TANK  
ENCLOSURE PINOUTS**

8/8/2007

**PLUG #4**

PIN #1	2-6	BLACK	RIGHT STAR TABLE
2	2-6	WHITE	RIGHT STAR TABLE
3	2-6	RED	RIGHT STAR TABLE
4	2-7	BLACK	LEFT STAR TABLE
5	2-7	WHITE	LEFT STAR TABLE
6	2-7	RED	LEFT STAR TABLE
7	3-1	BLACK	STAR TABLE DISTRIBUTOR
8	3-1	WHITE	STAR TABLE DISTRIBUTOR
9	3-1	RED	STAR TABLE DISTRIBUTOR
10	3-2	BLACK	CROSS
11	3-2	WHITE	CROSS
12	3-2	RED	CROSS

**PLUG #5**

PIN#1	3-3	BLACK	SIDE
2	3-3	WHITE	SIDE
3	3-3	RED	SIDE
4	3-4	BLACK	BIN FILL
5	3-4	WHITE	BIN FILL
6	3-4	RED	BIN FILL
7	3-5	BLACK	BIN UNLOAD
8	3-5	WHITE	BIN UNLOAD
9	3-5	RED	BIN UNLOAD
10			
11			
12			

**PLUG #6**

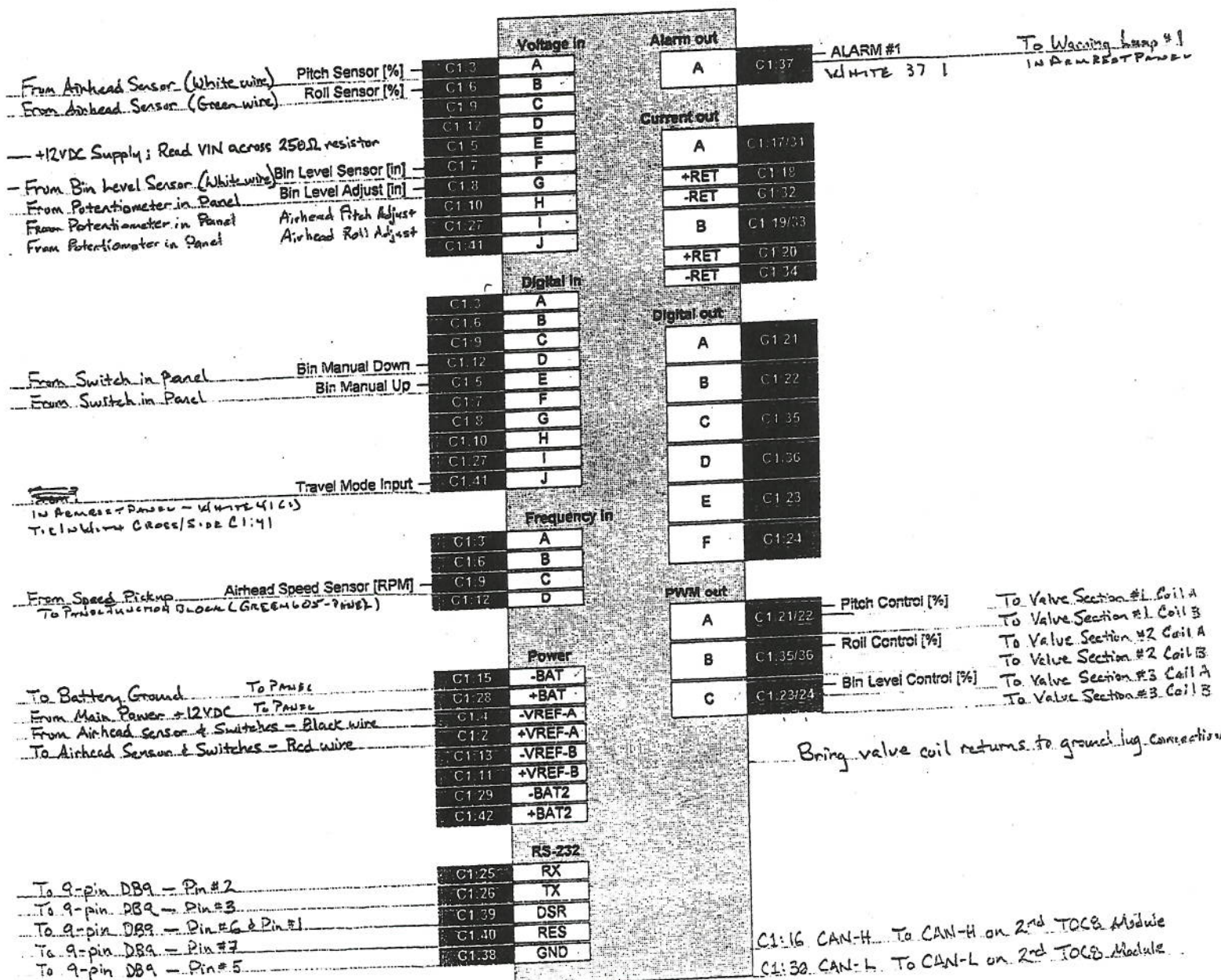
PIN #1	BLACK		BELDEN 8762 TO CAB
2	CLEAR		BELDEN 8762 TO CAB
3	RED	0028	12V DC FROM DISTRIBUTION PANEL
4	BLACK	0015	GROUND TO DISTRIBUTION PANEL

\* 03007 LaVaque

**IQAN TOCS: AIRHEAD & BIN LEVEL CONTROL**

Serial number: 1107  
 Hardware version: 4.00  
 Software version: 3.57

**SENSOR SETTINGS**  
 6 To 30



Bring valve coil returns to ground lug connections

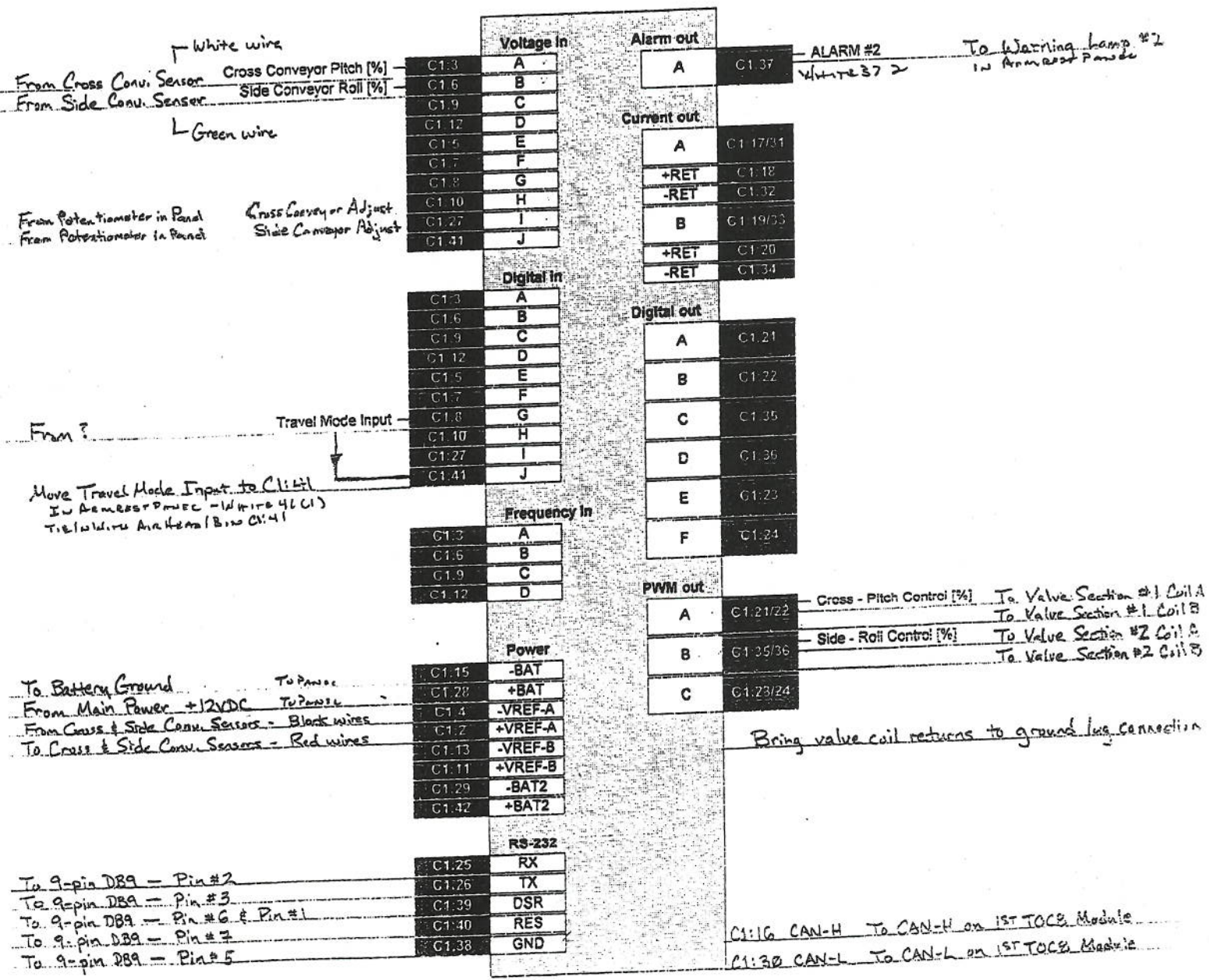
C1:16 CAN-H To CAN-H on 2nd TOCS Module  
 C1:30 CAN-L To CAN-L on 2nd TOCS Module

Include 120Ω Bus Termination Resistor

**IQAN TOC8: CROSS & SIDE CONVEYOR LEVEL CONTROL**

616-335-2893

Serial number: 0  
 Hardware version: 0.00  
 Software version: 0.00



ADVANCED FARM EQUIPMENT

AIR HEAD / BIN LEVELING TOC 8

8/8/2007

TOC 8	PANEL RECEP.	JUNCTION BLOCK	DESCRIPTION	POTENT.	INCOMING WIRE
WHITE 2		1	TO JUNCTION BLOCK		
		1 (2 WIRES)	TO AIR HEAD PITCH/ROLL POT'S / + VREF-A	WHITE 2	
		1	TO BIN LEVEL POT / + VREF-A	WHITE 2	
	1-1	1	TO AIR HEAD SENSOR / + VREF-A		RED #1
WHITE 3	1-2		FROM AIR HEAD SENSOR / - PITCH		WHITE #1
WHITE 4		2	TO JUNCTION BLOCK		
		2 (2 WIRES)	TO AIR HEAD PITCH/ROLL POT'S / - VREF-A	WHITE 4	
		2	TO BIN LEVEL POT / - VREF-A	WHITE 4	
	1-3	2	FROM AIR HEAD SENSOR / - VREF-A		BLACK #1
WHITE 5	2-1		BIN LEVEL MANUAL UP FROM ARMREST		ORANGE 72 20(4)
WHITE 6	1-4		FROM AIRHEAD SENSOR / ROLL		GREEN #1
WHITE 7		3	TO JUNCTION BLOCK		EXT. WHITE
	1-5	3	BIN LEVEL SENSOR ( IN )		WHITE #9-EXT WHITE
		3	CONNECT TO C1:15 W/ 250 OHM REISTOR		
WHITE 8			BIN LEVEL ADJUST ( IN ) FROM POT.	WHITE 8	
WHITE 9		9	A.H. RPM SENSOR INPUT		
WHITE 9	1-6	9	FROM A.H. RPM SENSOR TO C1:9		GREEN 605
WHITE 9	2-2	9	TO AIR HEAD FAN RPM READOUT IN CAB		GREEN 605 15(4)
WHITE10			A.H. PITCH ADJUST ( IN ) FROM POT	WHITE 10	
WHITE 12	2-3		BIN MANUAL DOWN FROM ARM REST		BLUE 71 19(4)
BLACK 15		4	TO JUNCTION BLOCK		
	1-7	4	TO DISTRIBUTION PANEL PLUG		BLACK 15 (P)
		4	CONNECT TO C1:7 W/250 OHM RESISTOR		
WHITE 21	3-1		A.H. PITCH CONTROL VALVE COIL-A / #4		BLACK #4 VALVE
WHITE 22	3-2		A.H. PITCH CONTROL VALVE COIL-B / #4		RED #4 VALVE
WHITE 23	3-3		BIN LEVEL CONTROL VALVE COIL-A / #8		BLACK #8 VALVE
WHITE 24	3-4		BIN LEVEL CONTOLL VALVE COIL-B / #8		RED #8 VALVE
WHITE 27			A.H. ROLL ADJUST ( IN ) FROM POT	WHITE 27	
RED 28	1-8		TO MAIN POWER IN DIST. PANEL PLUG		RED 28 (P)
WHITE 35	3-5		A.H. ROLL CONTROL VALVE COIL-A / #5		BLACK #5 VALVE
WHITE 36	3-6		A.H. ROLL CONTROL VALVE COIL-B / #5		RED #5 VALVE
WHITE 37	2-4		A.H. / BIN LEVEL ALARM TO ARM REST		WHITE 371 23(4)
WHITE 41		5	TO JUNCTION BLOCK		
WHITE 41	2-5	5	TO TRAVEL MODE SWITCH IN ARM REST		WHITE 41 22(4)
RED 75	2-6	6	FROM BIN FILL AUTO SWT TO BIN FILL SENSOR		RED 75 21(4)
BROWN #9	1-11	6	12VDC FROM ARM REST TO BIN FILL SENSOR		BROWN #9-EXT RED
BLUE #9	1-12	4	BIN FILL SENSOR TO GROUND		BLUE #9-EXT GREEN
WHITE #4	3-7	14	A.H. PITCH CONTROL VALVE COIL-A / #4		WHITE #4 VALVE
GREEN #4	3-8	14	A.H. PITCH CONTROL VALVE COIL-B / #4		GREEN #4 VALVE
WHITE #5	3-9	13	AH. ROLL CONTROL VALVE COIL-A / #5		WHITE #5 VALVE
GREEN #5	3-10	13	A.H. ROLL CONTROL VALVE COIL-B / #5		GREEN #5 VALVE
WHITE #8	3-11	12	BIN FILL CONTROL VALVE COIL-A / #8		WHITE #8 VALVE
GREEN #8	3-12	12	BIN FILL CONTROL VALVE COIL-B / #8		GREEN #8 VALVE
BLUE 16		7	CAN-H TO CAN-H ON A.H. / BIN TOC 8	CONNECT 7/8 W/ 120	OHM RESISTOR
WHITE 30		8	CAN-L TO CAN-L ON A.H. / BIN TOC 8		

ADVANCED FARM EQUIPMENT

CROSS / SIDE CONVEYOR LEVELING TOC 8

8/8/2007

TOC 8	PANEL RECEP.	JUNCTION BLOCK	DESCRIPTION	POTENT.	INCOMING WIRE
WHITE 2		10	TO JUNCTION BLOCK		
		10	TO CROSS POT / +VREF	WHITE 2	
		10	TO SIDE POT / +VREF	WHITE 2	
	4-1	10	TO CROSS PITCH SENSOR / +VREF		RED #3
	4-2	10	TO SIDE ROLL SENSOR / +VREF		RED #2
WHITE 3	4-3		FROM CROSS PITCH SENSOR		WHITE #3
WHITE 4		11	TO JUNCTION BLOCK		
		11	TO CROSS POT / -VREF	WHITE 4	
		11	TO SIDE POT / -VREF	WHITE 4	
	4-4	11	TO CROSS PITCH SENSOR / -VREF		BLACK #3
	4-5	11	TO SIDE ROLL SENSOR / -VREF		BLACK #2
WHITE 6	4-6		FROM SIDE ROLL SENSOR		WHITE #2
WHITE 10			CROSS ADJUST ( IN )	WHITE 10	
BLACK 15		15	TO JUNCTION BLOCK		
	1-9	15	TO DISTRIBUTION PANEL PLUG		BLACK 000015 (P)
WHITE 21	5-1		CROSS PITCH CONTROL VALVE COIL A		BLACK #6 VALVE
WHITE 22	5-2		CROSS PITCH CONTROL VALVE COIL B		RED #6 VALVE
WHITE 27			SIDE ADJUST ( IN )	WHITE 27	
RED 28	1-10		TO MAIN POWER IN DIST. PANEL		RED 000028 (P)
WHITE 35	5-3		SIDE ROLL CONTROL VALVE COIL A		BLACK #7 VALVE
WHITE 36	5-4		SIDE ROLL CONTROL VALVE COIL B		RED #7 VALVE
WHITE 37	2-9		CROSS / SIDE ALARM TO ARM REST		WHITE 372 (4)
WHITE 41		5	TO JUNCTION BLOCK W/ A.H.-BIN TOC8 C1:41		
BLUE 16		7	CAN-H TO CAN-H ON A.H./ BIN TOC 8		
WHITE 30		8	CAN-L TO CAN-L ON A.H./ BIN TOC 8	CONNECT 7/8 W/ 120 OHM RESISTOR	
WHITE #6	5-5	15	CROSS PITCH CONTROL VALVE COIL-A #6		WHITE #6 VALVE
GREEN #6	5-6	15	CROSS PITCH CONTROL VALVE COIL-B #6		GREEN #6 VALVE
WHITE #7	5-7	16	SIDE ROLL CONTROL VALVE COIL-A #7		WHITE #7 VALVE
GREEN #7	5-8	16	SIDE ROLL CONTROL VALVE COIL-B #7		GREEN #7 VALVE

WHITE 25	DB9	PIN #2		BIN LEVEL JUNCTION - BELDEN 9444	
WHITE 26	DB9	PIN #3		PIN 1 WHITE	WHITE
WHITE 39	DB9	PIN #6 / #1		PIN 2 BROWN	RED
WHITE 40	DB9	PIN #7		PIN 3 BLUE	GREEN
WHITE 38	DB9	PIN #5		PIN 4 PLUG PIN	