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No application description, version 0.00

3/22/04
#03212
HEARTLAND FARMS
4RSPH W/65" A.H./TANK

IQAN TOC8

Serial number: 1103
Hardware version: 4.00
Software version: 3.56

10K ADJUSTING POT
C1:2 +
C1:7 SIGNAL
C1:4 −

PITCH SENSOR SIGNAL - WHITE - SENSOR #1	C1:3	Voltage in	A
ROLL SENSOR SIGNAL - GREEN - SENSOR #1	C1:6		B
BIN LEVEL SENSOR SIGNAL - WHITE - SENSOR #2	C1:9		C
RUN 250 Ω RESISTOR TO GROUND C1:15 W/BINLEVEL SENSOR SIGNAL	C1:12		D
	C1:5		E
	C1:7		F
	C1:8		G
	C1:10		H
	C1:27		I
	C1:41		J
		Digital in	
	C1:3		A
	C1:6		B
	C1:9		C
	C1:12		D
BIN LEVEL MANUAL DOWN - BLUE 71(4)(CAB) TO VALVE	C1:5		E
BIN LEVEL MANUAL UP - ORANGE 72(4) (CAB) TO VALVE	C1:7		F
	C1:8		G
	C1:10		H
	C1:27		I
	C1:41		J
		Frequency in	
	C1:3		A
	C1:6		B
	C1:9		C
A.H. RPM SENSOR SIGNAL - GREEN 605(4)(CAB)	C1:12		D
		Power	
GROUND TO ENGINE BLOCK ⏚ - BLACK 15	C1:15	-BAT	MAIN
12VDC TO PANEL - RED 28 - 10A FAST ACT	C1:28	+BAT	MAIN
SENSOR #1 − - BLACK	C1:4	-VREF-A	
SENSOR #1 + - RED	C1:2	+VREF-A	
	C1:13	-VREF-B	
	C1:11	+VREF-B	
	C1:29	-BAT2	
	C1:42	+BAT2	
		RS-232	
TO 9 PIN DB-9 - PIN #2 (RED)	C1:25	RX	
TO 9 PIN DB-9 - PIN #3 (WHITE)	C1:26	TX	
TO 9 PIN DB-9 - PIN #6 & PIN #1 (BROWN) JUMPER	C1:39	DSR	
TO 9 PIN DB-9 - PIN #7 (BLACK)	C1:40	RES	
TO 9 PIN DB-9 - PIN #5 (GREEN)	C1:38	GND	

Alarm out	A	C1:37
Current out	A	C1:17/31
	+RET	C1:18
	-RET	C1:32
	B	C1:19/33
	+RET	C1:20
	-RET	C1:34
Digital out	A	C1:21
	B	C1:22
	C	C1:35
	D	C1:36
	E	C1:23
	F	C1:24
PWM out	PITCH A CONTROL	C1:21/22
	ROLL B CONTROL	C1:35/36
	BINLEVEL C CONTROL	C1:23/24

21 - VALVE PIN "A" - WHITE	15-CONN.
22 - VALVE PIN "A" - BLACK/WHITE	15-CONN.
35 - VALVE PIN "A" - BLUE/WHITE	15-CONN.
36 - VALVE PIN "A" - ORANGE/BLACK	15-CONN.
23 - VALVE PIN "A" - BLACK 023	15-CONN.
24 - VALVE PIN "A" - ORANGE 024	15-CONN.

PITCH CONTROL	VALVE PIN "B" - GREEN (TO C1:15)	15CONN.
	VALVE PIN "B" - RED/WHITE (TO C1:15)	15CONN.
ROLL CONTROL	VALVE PIN "B" - GREEN/WHITE (TO C1:15)	15CONN.
	VALVE PIN "B" - BLUE/BLACK (TO C1:15)	15CONN.
BINLEVEL CONTROL	VALVE PIN "B" - RED 015 (TO C1:15)	15CONN.
	VALVE PIN "B" - BLUE 015 (TO C1:15)	15CONN.

SENSOR #2 - BLUE - DIRECT TO C1:15 - ⏚
SENSOR #2 - BROWN TO AUTO ON/OFF SWITCH - RED 75(4)(CAB)

3/22/03
#03212
HEARTLAND FARMS
4RSPH W/65' A.H/TANK

IGAN - TOC8
BIN LEVELING

ENCLOSURE PLUG	JUNCTION BLOCK	TOC8 No.		
		C1:9	BIN LEVEL SENSOR SIGNAL (W/250 Ω TO ⏚)	- WHITE (SENSOR PLUG PIN #2)
		C1:15	- VREF-B TO SENSOR	- BLUE (SENSOR PLUG PIN #3)
		C1:15	MAIN ⏚ BATTERY	- BLACK 15
			+ VREF-B TO SENSOR	- BROWN (SENSOR PLUG PIN #1)
RED 75(4) AUTO SWITCH TO SENSOR BROWN (PIN #12)				
		C1:28	MAIN + (12VDC) BATTERY	- RED 28 TO DIST. PANEL 10 AMP FAST ACTING
		C1:23	BIN LEVEL CONTROL SIGNAL TO VALVE	- BLACK 023 (PIN "A" ON VALVE PLUG)
		C1:24	BIN LEVEL CONTROL SIGNAL TO VALVE	- ORANGE 024 (PIN "A" ON VALVE PLUG)
		C1:7	BIN LEVEL MANUAL SWITCH "UP" FROM CAB	- ORANGE 72(4)
		C1:5	BIN LEVEL MANUAL SWITCH "DOWN" FROM CAB	- BLUE 71(4)
	TIE TO	C1:15	BIN LEVEL VALVE PIN "B" ⏚	- RED 015
	TIE TO	C1:15	BIN LEVEL VALVE PIN "B" ⏚	- BLUE 015

RED 75 / BROWN — C1:15, C1:15, C1:5, C1:7, C1:24, C1:23, C1:28, C1:15, C1:15, C1:9

JUNCTION BLOCK

12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1

12	11	10	9	8	7	6	5	4	3	2	1
SENSOR BROWN	SENSOR BROWN (PIN 12)	C1:15 BLACK	C1:15 BLACK	C1:5	C1:7	C1:24	C1:23	C1:28	C1:15	C1:15	C1:9
	RED 75(4) ON/OFF SWITCH	BLUE 015 VALVE	RED 015 VALVE	BLUE 71 MANUAL DOWN	ORANGE 72 MANUAL UP	ORANGE 024 VALVE	BLACK 023 VALVE	RED 28 PANEL FUSE	BLACK 15 PANEL ⏚	SENSOR BLUE	SENSOR WHITE
RED/WHITE	RED/BLACK	BLUE 015	RED 015	WHITE	WHITE	WHITE 24	WHITE 23	RED 28	BLACK 15	BLUE 15	WHITE 9

250Ω

10K POT ADJUSTMENT

C1:2 +
C1:7 SIGNAL
C1:4 —

BIN CABLE PIN OUT SENSOR

1	BROWN	12VDC	TO RED 75(4)
2	WHITE	BIN LEVEL SIGNAL	C1:9
3	BLUE	⏚	C1:15
4	BLACK		
5	GRAY		

DB9 PLUG

PIN #2	RED	C1:25
3	WHITE	C1:26
5	GREEN	C1:38
6 & PIN 1	BROWN	C1:39
7	BLACK	C1:40

2, 4, 5, 7, 9, 15, 23, 24, 25, 26, 28, 38, 39, 40

IGAN - TOC8

Bin Leveling

7/14/03

Enclosure Plug	Junction Block	TOC8 No.		
1		C1:9	Bin Level Sensor Signal (W/250 Ω To ⏚)	- White (Sensor Plug Pin #2)
2		C1:15	- VREF-B To Sensor	- Blue (Sensor Plug Pin #3)
3		C1:15	Main ⏚ Battery	- Black 15
[11/12 Red 75 (Cab) Brown (Sensor)]			+ VREF-B To Sensor	- Brown (Sensor Plug Pin #1)
Red 75(4) Auto Switch To Sensor Brown				
4		C1:28	Main + (12VDC) Battery	- Red 28 To Dist. Panel 10 Amp Fast Acting
5		C1:23	Bin Level Control Signal To Valve	- Black 023 (Pin "A" on Valve Plug)
6		C1:24	Bin Level Control Signal To Valve	- Orange 024 (Pin "A" on Valve Plug)
7		C1:7	Bin Level Manual Switch "Up" From Cab	- Orange 72(4)
8		C1:5	Bin Level Manual Switch "Down" From Cab	- Blue 71(4)
9	Tie To	C1:15	Bin Level Valve Pin "B" ⏚	- Red 015
10	Tie To	C1:15	Bin Level Valve Pin "B" ⏚	- Blue 015
11	Red 75(4) (Cab)			
12	Brown (Sensor)			

	C1:15	C1:15	C1:5	C1:7	C1:24	C1:23	C1:28	C1:15	C1:15	C1:9
Red 75 / Brown										

Junction Block

11	10	9	8	7	6	5	4	3	2	1
Sensor Brown	C1:15 Black	C1:15 Black	C1:5	C1:7	C1:24	C1:23	C1:28	C1:15	C1:15 Sensor Blue	C1:9 Sensor White
Red 75(4)	Blue 015	Red 015	Blue 71	Orange 72	Orange 024	Black 023	Red 28	Black 15		

250 Ω

Bin Cable Pin Out Sensor

1	Brown	12VDC	To Red 75(4)
2	White	Bin Level Signal	C1:9
3	Blue	⏚	C1:15
4	Black		
5	Gray		