

11049

McCormick Farms

4RS PH $\frac{1}{2}$ 65" AH

#11049

MC CORMICK FARMS

4/7/11

EFX 1640

4RSPH 65"LAH

PLUG #1

PIN #	Wire	JUNC. BLK.			
1	33	16	BLUE	CAN LOGGER - CAN GROUND	RK4.5T-10 (4)
2	26	13	BLACK	CAN LOGGER - CAN HI	RK4.5T-10 (4)
3	25	14	GRAY	CAN LOGGER - CAN LO	RK4.5T-10 (4)
4	23	7	WHITE	CAN LOGGER - +12V DC	RK4.5T-10 (4)
5	01	2	BROWN	CAN LOGGER - GROUND	
6					
7					
8					
9					
10					
11	26	13	YELLOW	ENGINE CAN - CAN HI - FROM ENGINE DISPLAY IN CAB	(6)
12	25	14	GREEN	ENGINE CAN - CAN LO - FROM ENGINE DISPLAY IN CAB	(6)

PLUG #2

PIN #1					
33	15	BLUE	EFX TO RM DISPLAY - CAN GROUND	RK4.5T-10 (2)	
2	26 11	BLACK	EFX TO RM DISPLAY - CAN HI	RK4.5T-10 (2)	
3	25 12	GRAY	EFX TO RM DISPLAY - CAN LO	RK4.5T-10 (2)	
4	5	WHITE	EFX TO RM DISPLAY - +12V DC	RK4.5T-10 (2)	
5	12	BROWN	EFX TO RM DISPLAY - GROUND	RK4.5T-10 (2)	
6	33	BLUE	CAN MODEM - CAN GROUND	RK4.5T-10 (3)	
7	26	BLACK	CAN MODEM - CAN HI	RK4.5T-10 (3)	
8	25	GRAY	CAN MODEM - CAN LO	RK4.5T-10 (3)	
9	23	WHITE	CAN MODEM - +12V DC	RK4.5T-10 (3)	
10	01	BROWN	CAN MODEM - GROUND	RK4.5T-10 (3)	
11	01	1	BLACK 215	EFX - SENSOR / MODEM GROUND	P (8)
12	12	3	BLACK 415	EFX -ANALOG OUTPUTS GROUND	P (12)

PLUG #3

PIN #1					
33	15	RED	TRANSDUCER PANEL TO EFX - CAN GROUND	BELDEN 8771 (1)	
2	14	9	CLEAR	TRANSDUCER PANEL TO EFX - CAN HI	BELDEN 8771 (1)
3	32	10	BLACK	TRANSDUCER PANEL TO EFX - CAN LO	BELDEN 8771 (1)
4	15	4	BLACK 315	EFX - OUTPUTS GROUND	P (10)
5	05	5	RED 328	EFX - +12V DC SUPPLY OUTPUTS	P (9)
6	23	6	RED 228	EFX - +12V DC SUPPLY SENSORS / MODULES	P (7)
7	34	8	RED 428	EFX - +12V DC SUPPLY VIA RELAY	P (11)
8					
9	14	9	CLEAR	CAN-HI TO I088'S	BELDEN 8771 (5)
10	32	10	BLACK	CAN-LO TO I088'S	BELDEN 8771 (5)
11	26	13	YELLOW	CAN-HI TO S-D EASY	(6) -2
12	25	14	GREEN	CAN-LO TO S-D EASY	(6) -2

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MC CORMICK FARMS
EFX 1640
4RSPH 65"LAH

2 1 11-11-11
3 4 2-11-11
4 5 2-11-11
11-11-11
4/7/11
Brown 2" (150)
Brown 2" (150)
1/2 Brown 1/4 (16)

PLUG #4

PIN #	EFX Wire	JUNC. BLK.			
1	20	20	GREEN 605	AIR HEAD RPM SENSOR	
2	20	20	GREEN 605	AIR HEAD RPM SENSOR	15 (4)
3	47	21	RED	AIR HEAD COIL 1 PIN "A"	#7 BELDEN 9418 26F
4	44	22	GREEN	LEFT PRIMARY COIL PIN "A"	#7 BELDEN 9418
5	46	23	BLACK	RIGHT PRIMARY COIL 1 PIN "A"	#7 BELDEN 9418
6	45	24	WHITE	SECONDARY COIL 1 PIN "A"	#7 BELDEN 9418
7	28	25	ORANGE	AIRHEAD POT WIPER	3 (6) Brown 1/4 (16)
8	8	26	BLUE/WHITE	LEFT PRIMARY POT WIPER	7 (6) 12 FT
9	27	27	BLUE/BLACK	RIGHT PRIMARY POT WIPER	10 (6)
10	9	28	GREEN	SECONDARY POT WIPER	14 (6)
11					
12					

PLUG #5 EFX WIRE EFX 1640 TO MV5 VALVES

PIN #1	41	BLACK 0119	BLADE MASTER UP
2	42	RED 0118	BLADE MASTER DOWN
3	43	BROWN 0113	BOOM LIFT UP
4	4	WHITE 0112	BOOM LIFT DOWN
5	48	GREEN 0115	BOOM SWING OUT
6	49	PURPLE 0114	BOOM SWING IN
7	31	BLUE 0111	BOOM OUTER UP
8	50	ORANGE 0110	BOOM OUTER DOWN
9	51	BLUE 030	LEFT BLADE UP
10	52	ORANGE 029	LEFT BLADE DOWN
11	16	BROWN 037	RIGHT BLADE UP
12	35	WHITE 0356	RIGHT BLADE DOWN

PLUG #6 CAB TO EFX 1640

PIN #1	53	BLACK 119	BLADE MASTER UP	10 (4)
2	19	RED 118	BLADE MASTER DOWN	8 (4)
3	11	BROWN 113	BOOM LIFT UP	5 (4)
4	30	WHITE 112	BOOM LIFT DOWN	4 (4)
5	21	GREEN 115	BOOM SWING OUT	7 (4)
6	38	PURPLE 114	BOOM SWING IN	6 (4)
7	10	BLUE 111	BOON OUTER UP	3 (4)
8	29	ORANGE 110	BOOM OUTER DOWN	2 (4)
9	39	ORANGE 29	LEFT BLADE DOWN	10 (4)
10	3	BLUE 30	LEFT BLADE UP	11 (4)
11	40	BROWN 37	RIGHT BLADE UP	13 (4)
12	22	WHITE 35	RIGHT BLADE DOWN	12 (4)

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EFX 1640
4RSPH 65"LAH

4/7/11

PLUG #7 EFX

PIN # WIRE JUNC. BLK.

PIN #	WIRE	JUNC. BLK.	DESCRIPTION
1	36		WHITE 41 TRAVEL SWITCH INPUT SIGNAL FROM CAB
2	37		RED 75 BIN LEVEL AUTO INPUT SIGNAL FROM CAB
3	54		ORANGE 72 BIN MANUAL UP INPUT FROM CAB
4	17		BLUE 71 BIN MANUAL DOWN INPUT FROM CAB
5	2		BLACK 32 GROUND DRIVE HI / LO MONITOR FROM S-D EASY
6	18		BLACK 10 GROUND DRIVE SPEED INPUT FROM S-D EASY
7	53		BLACK 30 GROUND DRIVE PUMP FORWARD SIGNAL FROM S-D EASY
8			
9			
10			
11	23	7	RED 0228 +VBAT - 12VDC SUPPLY FROM EFX TO I088
12	15	4	BLACK 0315 -VBAT - GND FROM EFX TO I088

Chris Stratton

From: "Matt Kooyer" <mkooyer@dtsfluidpower.com>
Date: Tuesday, June 28, 2011 1:07 PM
To: "Chris Stratton" <Chris.S@lenco-harvesters.com>; "Burgess, Brian" <bburgess@dtsfluidpower.com>; "Austin, Doug" <daustin@dtsfluidpower.com>; "Lindstrom, Dan" <dindstrom@dtsfluidpower.com>
Subject: RE: Power Supplies
 All three are 12vdc into the controller.

23 powers the processor

5 supplies power for 1st bank of outputs (pins 44,45,46,47 ,39,03,40,22,41,42,43,04)

34 supplies power for 2nd bank of outputs (pins 36,54,17,53 ,48,49,31,50,51,52,16,35)

From: Chris Stratton [mailto:Chris.S@lenco-harvesters.com]
Sent: Tuesday, June 28, 2011 9:46 AM
To: Matt Kooyer; Burgess, Brian; Austin, Doug; Lindstrom, Dan
Subject: Re: Power Supplies

What I would like to know is what do you tied to each one of these lines.

From: [Matt Kooyer](#)
Sent: Tuesday, June 28, 2011 9:43 AM
To: [Chris Stratton](#) ; [Burgess, Brian](#) ; [Austin, Doug](#) ; [Lindstrom, Dan](#)
Subject: RE: Power Supplies

Each 1640

3A fuse on 23 (power down with key switch)

20A fuse on 5 (power down with key switch)

20A fuse on 34 (prefer power down with key switch, can leave hot)

Also, on this machine each Husco IO08 can be drawing 5-10A at a time. Suggest either 10A on each or 40A for all (4).

And I know you're aware of this, but watch return/grnd line amp loads if things rally.

From: Chris Stratton [mailto:Chris.S@lenco-harvesters.com]
Sent: Tuesday, June 28, 2011 8:29 AM
To: Matt Kooyer; Burgess, Brian; Austin, Doug; Lindstrom, Dan
Subject: Power Supplies

One more time, let me know what you want Pin's 05, 23, 34 to supply respectively. Thanks

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4/4/11

McCORMICK FARMS

Wiring

Pin	Potential	Description	Note
23	VBB (10.32 V DC)	Supply sensors and module	LOGGIN-DISPLAY - MCGEM - IOBB + VBAT
05	VBB (10.32 V DC)	Supply outputs	EPX To Display Relay switched (1) + VBAT
34	VBB (10.32 V DC)	Supply via relay	+ VBAT Relay switched (2) PATROL
01	GND	Ground sensors and module	LOGGIN - MCGEM
15	GND	Ground outputs	PATROL GROUNDING - IOBB - VBAT
12	GND	Ground analogue outputs	EPX To MCGEM - VBAT

CAN, RS-232, ERROR, TEST

Pin	Potential	Description	Note
14	CAN1 _H	CAN-Interface 1 (High)	EPX To DISPLAY - TRANSDUCER TO EPX - To IOBB
32	CAN1 _L	CAN-Interface 1 (Low)	EPX To DISPLAY - TRANSDUCER TO EPX - To IOBB
26	CAN2 _H	CAN-Interface 2 (High)	LOGGIN - SAE J 1939 - MCGEM
25	CAN2 _L	CAN-Interface 2 (Low)	LOGGIN - SAE J 1939 - MCGEM
33	GND	Ground (RS-232/CAN)	LOGGIN - DISPLAY - TRANSDUCER TO EPX
06	RxD	RS-232 interface (programming)	PROGRAMMING Pin 03, PC D-Sub (9 pin)
07	TxD	RS-232 interface (programming)	DEV PROGRAMMING Pin 02, PC D-Sub (9 pin)
13	ERROR	Error output BH	
24	TEST	Test input	PROGRAMMING

Inputs/Outputs

Pin	INPUTS	Configuration	OUTPUTS	Configuration	Diagnostic capability*	Relay switched
08	%00.00 / %AN03	B A LEFT PAIR POT	- INPUT	-	0/-	
27	%00.01 / %AN04	B A RIGHT PAIR POT	- INPUT	-	0/-	
09	%00.02 / %AN05	B A SECOND POT	- INPUT	-	0/-	
28	%00.03 / %AN06	B A A.H. FAN POT	- INPUT	-	0/-	
10	%00.04 / %AN07	B A BOOM OUTRA UP	- INPUT	-	0/-	BLUE 111
29	%00.05 / %AN08	B A BOOM OUTRA DOWN	- INPUT	-	0/-	ORANGE 110
11	%00.06 / %AN09	B A BOOM LIFT UP	- INPUT	-	0/-	BROWN 113
30	%00.07 / %AN10	B A BOOM LIFT DOWN	- INPUT	-	0/-	WHITE 112
44	%00.08	B LEFT PAIR PUMP COIL	%000.00 OUTPUT	B, PWM PWM	-/0	VBB (1)
45	%00.09	B SEC. PUMP COIL	%000.01 OUTPUT	B, PWM PWM	-/0	VBB (1)
46	%00.10	B RIGHT PAIR PUMP COIL	%000.02 OUTPUT	B, PWM PWM	-/0	VBB (1)
47	%00.11	B A.H. FAN PUMP COIL	%000.03 OUTPUT	B, PWM PWM	-/0	VBB (1)
20	%00.12	B A.H. FAN RPM SENSOR	(FRQ 0) - INPUT	-	0/-	
02	%00.13	B IS-D MANURE GRD. DRIVE	(FRQ 1) - INPUT	-	0/-	H/Lo Signal S-D # 32
21	%00.14	B BOOM SWING OUT	(FRQ 2) - INPUT	-	0/-	
38	%00.15	B BOOM SWING IN	(FRQ 3) - INPUT	-	0/-	
36	%01.00	B TRACTOR SWITCH	%000.04 INPUT	B, PWM PWM	-/0	VBB (2)
54	%01.01	B B.W. MANURE UP	%000.05 INPUT	B, PWM PWM	-/0	VBB (2)
17	%01.02	B B.W. MANURE DOWN	%000.06 INPUT	B, PWM PWM	-/0	VBB (2)
53	%01.03	B BLOP MASTER UP	%000.07 INPUT	B, PWM PWM	-/0	VBB (2)
19	%01.04	B BLOP MASTER DOWN	(CY 0) - INPUT	-	0/-	
55	%01.05	B IS-D FAN GAD DOWN FAN	(CY 1) - INPUT	-	0/-	S-D # 30
18	%01.06	B IS-D FAN GAD SPEED	(CY 2) - INPUT	-	0/-	S-D # 18
37	%01.07	B B.W. LOW HRTD	(CY 3) - INPUT	-	0/-	
39	%01.08	B LEFT BLADE DOWN	%000.08 INPUT	B ₁	0/0	VBB (1)
03	%01.09	B LEFT BLADE UP	%000.09 INPUT	B ₁	0/0	VBB (1)
40	%01.10	B RIGHT BLADE UP	%000.10 INPUT	B ₁	0/0	VBB (1)
22	%01.11	B RIGHT BLADE DOWN	%000.11 INPUT	B ₁	0/0	VBB (1)
41	%01.12	B BLOP MASTER	%000.12 OUTPUT	B ₁	0/0	VBB (1)
42	%01.13	B BLOP MASTER	%000.13 OUTPUT	B ₁	0/0	VBB (1)
43	%01.14	B BOOM LIFT MVS	%000.14 OUTPUT	B ₁	0/0	VBB (1)
04	%01.15	B BOOM LIFT MVS	%000.15 OUTPUT	B ₁	0/0	VBB (1)
48	%02.00	B BOOM SWING MVS	%001.00 OUTPUT	B, PWM	0/0	VBB (2)
49	%02.01	B BOOM SWING MVS	%001.01 OUTPUT	B ₁ , H-Bridge	0/0	VBB (2)
31	%02.02	B BOOM OUTRA MVS	%001.02 OUTPUT	B ₁ , H-Bridge	0/0	VBB (2)
50	%02.03	B BOOM OUTRA MVS	%001.03 OUTPUT	B, PWM	0/0	VBB (2)
51	%02.04	B LEFT BLADE MVS	%001.04 OUTPUT	B, PWM	0/0	VBB (2)
52	%02.05	B LEFT BLADE MVS	%001.05 OUTPUT	B ₁ , H-Bridge	0/0	VBB (2)
16	%02.06	B RIGHT BLADE MVS	%001.06 OUTPUT	B ₁ , H-Bridge	0/0	VBB (2)
35	%02.07	B RIGHT BLADE MVS	%001.07 OUTPUT	B, PWM	0/0	VBB (2)

Note the double pin connection of inputs/outputs.

*only positive sensor signals with diagnostic capability

MC CORMICK FARMS
IO88 MODULE
4RSPH 65"LAH

4/11/11

PLUG #1

PIN #	JUNC. BLK.				
1	1	RED 0228	12VDC POWER SUPPLY FROM EFX1640 JUNCTION 7 TO IO88'S 1 /2		
2	5 / 7	BLACK 0315	GND FROM EFX 1640 TO IO88'S 1 /2		
3	8	BLUE	BIN SENSOR TO GND		
4		BROWN	BIN SENSOR POWER FROM IO88 CHANNEL 1 - BROWN		
5		WHITE	BIN SENSOR INPUT TO IO88 CHANNEL 1 - WHITE		
6		BLACK 1	BIN LEVEL CONTROL VALVE UP TO IO88-1 CHANNEL 8 - WHITE +		BELDEN 9418 (7)
7	9	WHITE 2	BIN LEVEL CONTROL VALVE UP TO IO88-1 CHANNEL 8 - BLUE $\frac{1}{2}$		BELDEN 9418 (7) 8 1/2
8		RED 1	BIN LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 6 -WHITE +		BELDEN 9418 (7)
9	10	GREEN 2	BIN LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 6 -BLUE $\frac{1}{2}$		BELDEN 9418 (7)
10					
11					
12					

PLUG #2 JUNC BLK.

PIN #1	JUNC BLK.				
1	3	RED	AIR HEAD PITCH SENSOR +VREF POWER SUPPLY FROM DTS-30008 - GREEN 5V		BELDEN 9418-1
2	6	BLACK	AIR HEAD PITCH SENSOR TO GND		BELDEN 9418-1
3		WHITE	AIR HEAD PITCH SENSOR INPUT TO IO88-2 CHANNEL 7 -WHITE		BELDEN 9418-1
4	3	RED	AIR HEAD ROLL SENSOR +VREF POWER SUPPLY FROM DTS-30008 -GREEN 5V		BELDEN 9418-2
5	6	BLACK	AIR HEAD ROLL SENSOR TO GND		BELDEN 9418-2
6		WHITE	AIR HEAD ROLL SENSOR INPUT TO IO88-2 CHANNEL 5 -WHITE		BELDEN 9418-2
7	4	RED	CROSS LEVEL SENSOR +VREF POWER SUPPLY FROM DTS-30008 -GREEN 5V		BELDEN 9418-3
8	7	BLACK	CROSS LEVEL SENSOR TO GND		BELDEN 9418-3
9		WHITE	CROSS LEVEL SENSOR INPUT TO IO88-1 CHANNEL 7 -WHITE		BELDEN 9418-3
10	4	RED	SIDE LEVEL SENSOR +VREF POWER SUPPLY FROM DTS-30008 -GREEN 5V		BELDEN 9418-4
11	7	BLACK	SIDE LEVEL SENSOR TO GND		BELDEN 9418-4
12		WHITE	SIDE LEVEL SENSOR INPUT TO IO88-1 CHANNEL 5 -WHITE		BELDEN 9418-4

PLUG #3

PIN #1	JUNC BLK.				
1		BLACK 1	CROSS LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 8 -BLACK +		BELDEN 9418-8
2	9	WHITE 2	CROSS LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 8 -BLUE $\frac{1}{2}$		BELDEN 9418-8
3		RED 1	CROSS LEVEL CONTROL VALVE UP TO IO88-1 CHANNEL 6 -BLACK +		BELDEN 9418-8
4	10	GREEN 2	CROSS LEVEL CONTROL VALVE UP TO IO88-1 CHANNEL 6 -BLUE $\frac{1}{2}$		BELDEN 9418-8
5					
6					
7		BLACK 1	SIDE LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 4 -BLACK +		BELDEN 9418-9
8		WHITE 2	SIDE LEVEL CONTROL VALVE DOWN TO IO88-1 CHANNEL 4 -BLUE $\frac{1}{2}$		BELDEN 9418-9
9		RED 1	SIDE LEVEL CONTROL VALVE UP TO IO88-1 CHANNEL 2 -BLACK +		BELDEN 9418-9
10		GREEN 2	SIDE LEVEL CONTROL UP TO IO88-1 CHANNEL 2 -BLUE $\frac{1}{2}$		BELDEN 9418-9
11					
12					

Valve - Side
 Cross
 Air. Pitch
 Air. Roll

19 F+

Pin Reception

2 BLACK 3 BLUE 4 BROWN
 5
 2 WHITE 1 BROWN

1
 2
 3
 4 Black
 5 GRAY

4/11/11

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MC CORMICK FARMS
IO88 MODULE
4RSPH 65"LAH

19 F7.

PLUG #4	PIN #	JUNC. BLK.				
1		BLACK 1	AIR HEAD PITCH UP CONTROL VALVE TO IO88-2 CHANNEL 8	-BLACK	+	BELDEN 9418-5
2		WHITE 2	AIR HEAD PITCH UP CONTROL VALVE TO IO88-2 CHANNEL 8	-BLUE	+	BELDEN 9418-5
3		RED 1	AIR HEAD PITCH DOWN CONTROL VALVE TO IO88-2 CHANNEL 6	-BLACK		BELDEN 9418-5
4		GREEN 2	AIR HEAD PITCH DOWN CONTROL VALVE TO IO88-2 CHANNEL 6	-BLUE		BELDEN 9418-5
5		BLACK 1	AIR HEAD ROLL LEFT CONTROL VALVE TO IO88-2 CHANNEL 4	-BLACK		BELDEN 9418-6
6		WHITE 2	AIR HEAD ROLL LEFT CONTROL VALVE TO IO88-2 CHANNEL 4	-BLUE		BELDEN 9418-6
7		RED 1	AIR HEAD ROLL RIGHT CONTROL VALVE TO IO88-2 CHANNEL 2	-BLACK		BELDEN 9418-6
8		GREEN 2	AIR HEAD ROLL RIGHT CONTROL VALVE TO IO88-2 CHANNEL 2	-BLUE		BELDEN 9418-6
9						
10						
11						
12						

PLUG #5

PIN #	JUNC. BLK.				
1		BROWN 117	COULTER SWITCH DOWN INPUT TO IO88-2 CHANNEL 7	-BLACK	
2		YELLOW 116	COULTER SWITCH UP TO IO88-2 CHANNEL 5	-BLACK	
3		BLACK 108	STONE BOX SWITCH DOWN INPUT TO IO88-2 CHANNEL 3	-BLACK	
4		RED 109	STONE BOX SWITCH UP INPUT IO88-2 CHANNEL 1	-BLACK	
5		BROWN 0117	COULTER DOWN COIL SIGNAL IO88-2 CHANNEL 8	-WHITE	
6		YELLOW 0116	COULTER UP COIL SIGNAL IO88-2 CHANNEL 6	-WHITE	
7		BLACK 0108	STONE BOX DOWN COIL SIGNAL IO88-2 CHANNEL 4	-WHITE	
8		RED 0109	STONE BOX UP COIL SIGNAL IO88-2 CHANNEL 2	-WHITE	
9					
10					
11	13	CLEAR-8771-5	CAN-HI IO88-1 /2 TO EFX 1640 CAN-HI 3-9		Belden 8771 - 5
12	12	BLACK-8771-5	CAN-LO IO88-1 /2 TO EFX 1640 CAN-LO 3-10		Belden 8771 - 5

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	090	RESET SWITCH TO RESET RELAY PIN 3/8
4	BLACK	017	CB4 TO BRAKE, STEER, WARNING, SPEEDOMETER
5	RED	081	CB 10 TO FUEL PUMP SWITCH
6	YELLOW	089	RESET SWITCH TO RESET RELAY PIN 1/2
7	RED	2	CB 12 TO AIR HEAD PUMP ON / OFF SWITCH
8	BLACK	0012	CB7 TO 2-SPEED SWITCHES
9	BLACK	0017	BRAKE SWITCH TO 14 (5) / 15 (5) BLACK 17 TO BRAKE SOLENOID
10	BROWN	88	CB11 TO STROBE / 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	BLACK	108	STONE BOX MV5 VALVE
26	RED	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	ORANGE	924	4X4 SWITCH TO FRONT MOTOR FREEWHEEL VALVE
31	ORANGE	0924	CB 20 TO 4X4 / FREEWHEEL SWITCH - FREEWHEEL SIDE ONLY
32	YELLOW	42	BIN FILL SPEED SWITCH TO RDRS112-30 ACTUATOR
33	WHITE	43	BIN FILL SPEED SWITCH TO RDRS112-30 ACTUATOR
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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MC CORMICK FARMS

3/31/11

4RSPH W/ 65" - TANK

PLUG 2

PIN #				
1	BROWN	153	LEFT PRIMARY SWITCH TO REVERSING VALVE - REV.	
2	ORANGE	154	RIGHT PRIMARY SWITCH TO REVERSING VALVE - REV.	
3				
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	ORANGE	4	COOLER FAN SWITCH TO VALVE	
12	BLACK	1	4 X 4 SWITCH TO RELAY	
13				
14				
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 - FORWARD	
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 CONV. PRESS. SWITCH N.O. TO CAB (BZ 6562)	
24	BLACK	22	BIN / BOOM SWT. TO DTS-0373B (A) SOLENOID	
25				
26				
27	RED	157	RT/ PRIM. REV. SWST. TO REV. VALVE. - FORWARD	
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	

#11049

MC CORMICK FARMS

3/31/11

4RSPH W/ 65" - TANK

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	ROAD LIGHT SWITCH
6	22	RED	CB8 TO DOME / PANEL LIGHT SWT. / RADIO MEM (77000 HOT SIDE)
*7	507	BROWN	CAB FIELD LIGHTS POWER
8	572	BROWN	WORK LIGHT SWITCH TO LEFT WORK LIGHTS RELAYS
9			
*10	526	BROWN	CAB ROAD LIGHTS POWER
11	652	BLUE	FUEL TANK SENDER TO GAUGE
12			
13			
14	504	BROWN	CAB FIELD LIGHT POSITION TO RELAY #4-86
*15	156	BLACK	CB15 TO AUXILLARY OUTLET BOX 12 AWG
16			

WHITE 58

#11049

MC CORMICK FARMS

3/31/11

4RSPH W/ 65" - TANK

PLUG 4

SW#/PIN#

	1	RED	21	CB7 TO PIN 4 ON GAUGE PANEL				
1	2	BLACK	BLACK	OUTER BOOM TO EFX 1640	WHITE / GREEN	5	ORANGE	110
1	3	RED	RED	OUTER BOOM TO EFX 1640	GREEN	4	BLUE	111
2	4	ORANGE	ORANGE	BOOM LIFT TO EFX 1640	WHITE / YELLOW	7	WHITE	112
2	5	BLUE	BLUE	BOOM LIFT TO EFX 1640	YELLOW	6	BROWN	113
3	6	BLK/WHT	YELLOW	BOOM SWING TO EFX 1640	WHITE / BLACK	9	PURPLE	114
3	7	RED/WHT	BROWN	BOOM SWING TO EFX 1640	BLACK	8	GREEN	115
4	8	BLU/WHT	VIOLET	BLADE TO EFX 1640	WHITE / ORANGE	11	RED	118
4	9	GRN/WHT	GRAY	BLADE TO EFX 1640	ORANGE	10	BLACK	119
5	10	ORG/BLK	WHT/BRN	LEFT BLADE TO EFX 1640	WHITE / BROWN	13	ORANGE	29
5	11	BLU/BLK	WHT/BLK	LEFT BLADE TO EFX 1640	BROWN	12	BLUE	30
6	12	RED/BLK	WHT/RED	RIGHT BLADE TO EFX 1640	WHITE / GRAY	15	WHITE	35
6	13	GRN/BLK	WHT/YEL	RIGHT BLADE TO EFX 1640	GRAY	14	BROWN	37
	14	BLUE	55	LEFT CRAB FOOT SWITCH TO STEERING BOX RELAY				
	15	GREEN	605	A.H. FAN RPM PICKUP TO EFX 1640 TO CAB				
	16	ORANGE	56	RIGHT CRAB FOOT SWITCH TO STEERING BOX RELAY				
	17	BROWN	34	RIGHT STAR TABLE RDRS112-30 ACTUATOR				
	18	GREEN	38	RIGHT STAR TABLE RDRS112-30 ACTUATOR				
17'	19	BLUE	71	BIN FILL MAN. SWITCH TO EFX 1640 (DOWN)				
17'	20	ORANGE	72	BIN FILL MAN. SWITCH TO EFX 1640 (UP)				
17'	21	RED	75	BIN FILL AUTO. SWT. TO EFX 1640 PANEL JUNCTION BLOCK				
17'	22	WHITE	41	TRAVEL MODE SWITCH TO EFX 1640				
	23							
	24							
	25							
	26							
	27	WHITE	67	CROSS DIST. ROLLS SPEED SWITCH T RDRS112-30 ACTUATOR				
	28	BLUE	68	CROSS DIST. ROLLS SPEED SWITCH T RDRS112-30 ACTUATOR				
	29	BLACK	51	A.H. DISCHG. SPEED SWITCH TO RDRS112-30 ACTUATOR				
	30	ORANGE	52	A.H. DISCHG. SPEED SWITCH TO RDRS112-30 ACTUATOR				
	31	ORANGE	47	BOOM SPEED SWITCH TO RDRS112-30 ACTUATOR				
	32	WHITE	48	BOOM SPEED SWITCH TO RDRS112-30 ACTUATOR				
	33	PURPLE	62	CROSS SPEED SWITCH TO RDRS112-30 ACTUATOR				
	34	BROWN	63	CROSS SPEED SWITCH TO RDRS112-30 ACTUATOR				
	35	WHITE / BLACK		M115 TRIGGER SWITCH			2 VIOLET	
	36							
	37	GREEN	091	CB2 TO M115 HYDRO HANDLE			1 RED	

#11049

MC CORMICK FARMS

3/31/11

4RSPH W/ 65" - TANK

PLUG #6

- | | | |
|----|----------------|---|
| 1 | BLACK | |
| 2 | RED | |
| 3 | ORANGE | AIR HEAD CONTROLLER COMMAND SIGNAL TO EFX1640 |
| 4 | BLUE | |
| 5 | BLACK / WHITE | |
| 6 | RED / WHITE | |
| 7 | BLUE / WHITE | LEFT PRIMARY CONTROLLER COMMAND SIGNAL TO EFX 1640 |
| 8 | GREEN / WHITE | |
| 9 | ORANGE / BLACK | |
| 10 | BLUE / BLACK | RIGHT PRIMARY CONTROLLER COMMAND SIGNAL TO EFX 1640 |
| 11 | RED / BLACK | |
| 12 | GREEN / BLACK | |
| 13 | WHITE | |
| 14 | GREEN | SECONDARY CONTROLLER COMMAND SIGNAL TO EFX 1640 |
| 15 | WHITE / BLACK | |
| 16 | | |

CONTROLLER POWER SUPPLY PIN "B" TO BATTERY GROUND

ENERGIZED COIL

AIR HEAD PUMP:

NEXT TO FLANGE - "IN" - PRESURE OUT PORT "A"
AWAY FROM FLANGE - "OUT"

PRIM / SEC PUMPS:

NEXT TO PRESSURE PORTS: "IN" - PRESSURE OUT PORT "A"
AWAY FROM PRESSURE PORTS: "OUT"

EFX 1088

CAB

SMARTDRIVE EASY

3/31/11

#10049

MC CORMICK FARMS

4RSPH 65"LAH

PLUG #7
PIN # L Arc 16 Pin

* 1			
(2)	BLACK	40	2-SPEED SWITCH IN O.H. TO EASYDRIVE (ROAD/WORK SWITCH)
(3)	BLACK	242	2-SPEED SWT. IN O.H. TO EASYDRIVE (ROAD/WORK SWT)
(4)	BLACK	38	PARK BRAKE SWT. IN .OH. TO EASYDRIVE (PARK BRAKE SWT.)
(5)	BLACK	042	PARK BRAKE SWT. IN .OH. TO EASYDRIVE (PARK BRAKE SWT.)
6	PURPLE	012	CB 6 TO PURPLE "ACC" IN POWER VIEW HARNESS
* 7	YELLOW	89 (H)	MAIN POWER RESET RELAY TO MASTER SWITCH
8	PURPLE	013	POW.SOL. "IGN" TERM. W/RED 13 TO PURPLE "KEY" IN POWER VIEW HARNESS
9	RED	022	CB 8 TO RED "POW" IN POWER VIEW HARNESS
* 10	ORANGE	90 (H)	MAIN POWER RESET RELAY TO MASTER SWITCH
11	GREEN	422	STARTER RELAY TO GREEN "STRT" IN POWER VIEW HARNESS
12	BLACK	804	SEAT SWITCH TO TIME DELAY RELAY PIN 6
13	BLACK	810	SEAT SWITCH TO TIME DELAY RELAY PIN 7
14	BROWN	115	M115 "A" FORWARD TO NEUTRAL RELAY
* 15			
16	PURPLE	115	M115 "B" REVERSE TO NEUTRAL REALY

PLUG #8 PIN #	B	A	SIG -	GNL -	VS -		BELDEN
1			BLACK			M115 SIGNAL TO SMART DRIVE	BLACK
2			RED			M115 VBAT TO SMART DRIVE	RED
3			BLACK			M115 GROUND TO SMART DRIVE	CLEAR
4							

PLUG #9 J1939

PIN #			
1	YELLOW		CAN-HI TO EFX / S-D
2	GREEN		CAN-LO TO EFX / S-D
3			
4			