

# 11049

McCormick Farms

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

Air Clean Fan



FILTER WARNING



Low Hydraulic



Ground Drive

Oil

Hi Range



Lo Range



Fuel Pump



Flashes

Ground Drive

4X4



4X2

Back Up



Lights

Parking

Brake

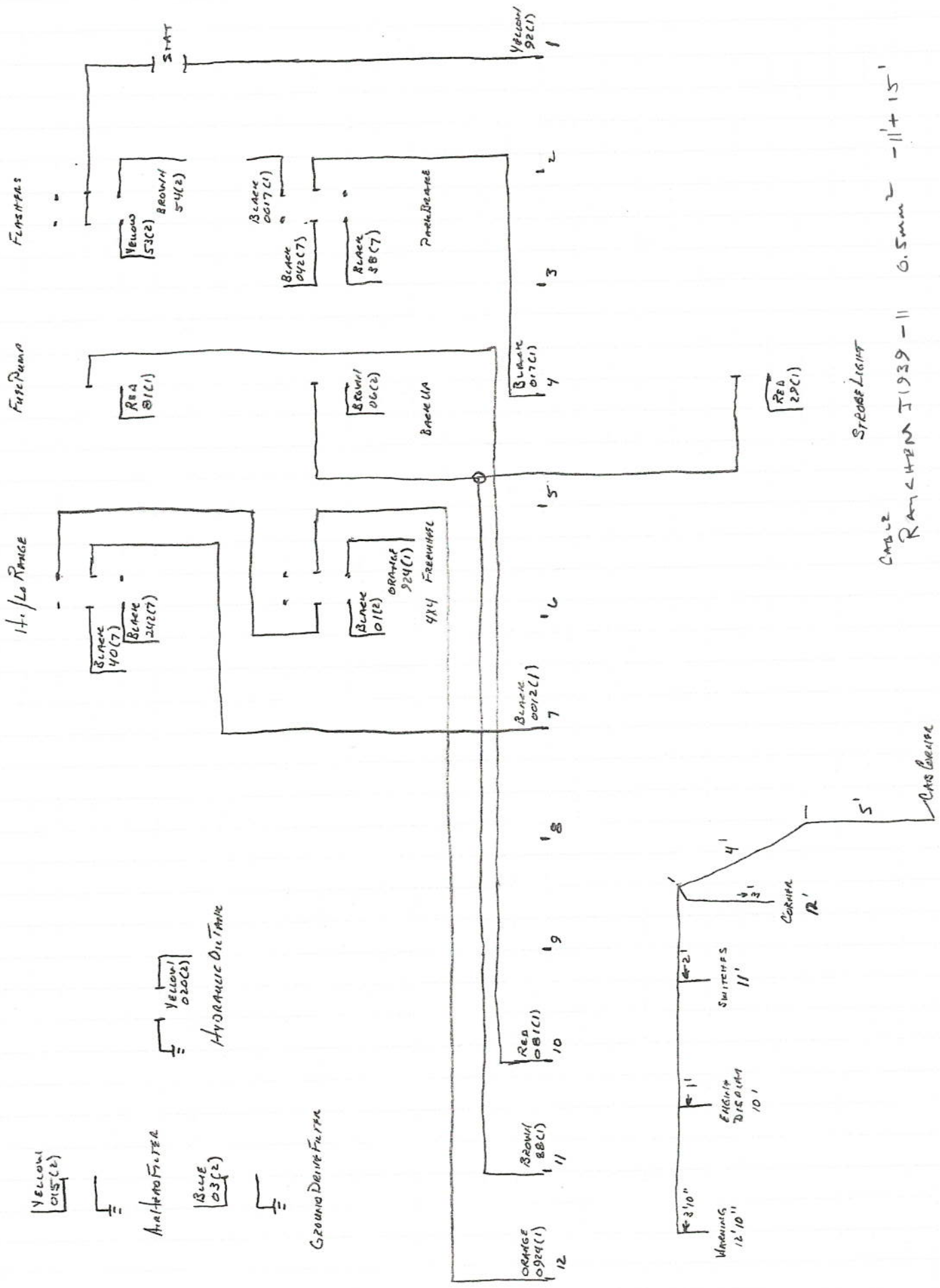


Off



Strobe

Light



CABLE RAYLCHEN I 1939 - 11 0.5mm<sup>2</sup> - 11 + 15'

STREET LIGHT

FOOT PEDAL SWITCHES

CENTERING

S T E E R I N G

SECONDARY

R E V E R S I N G

LEFT

RIGHT

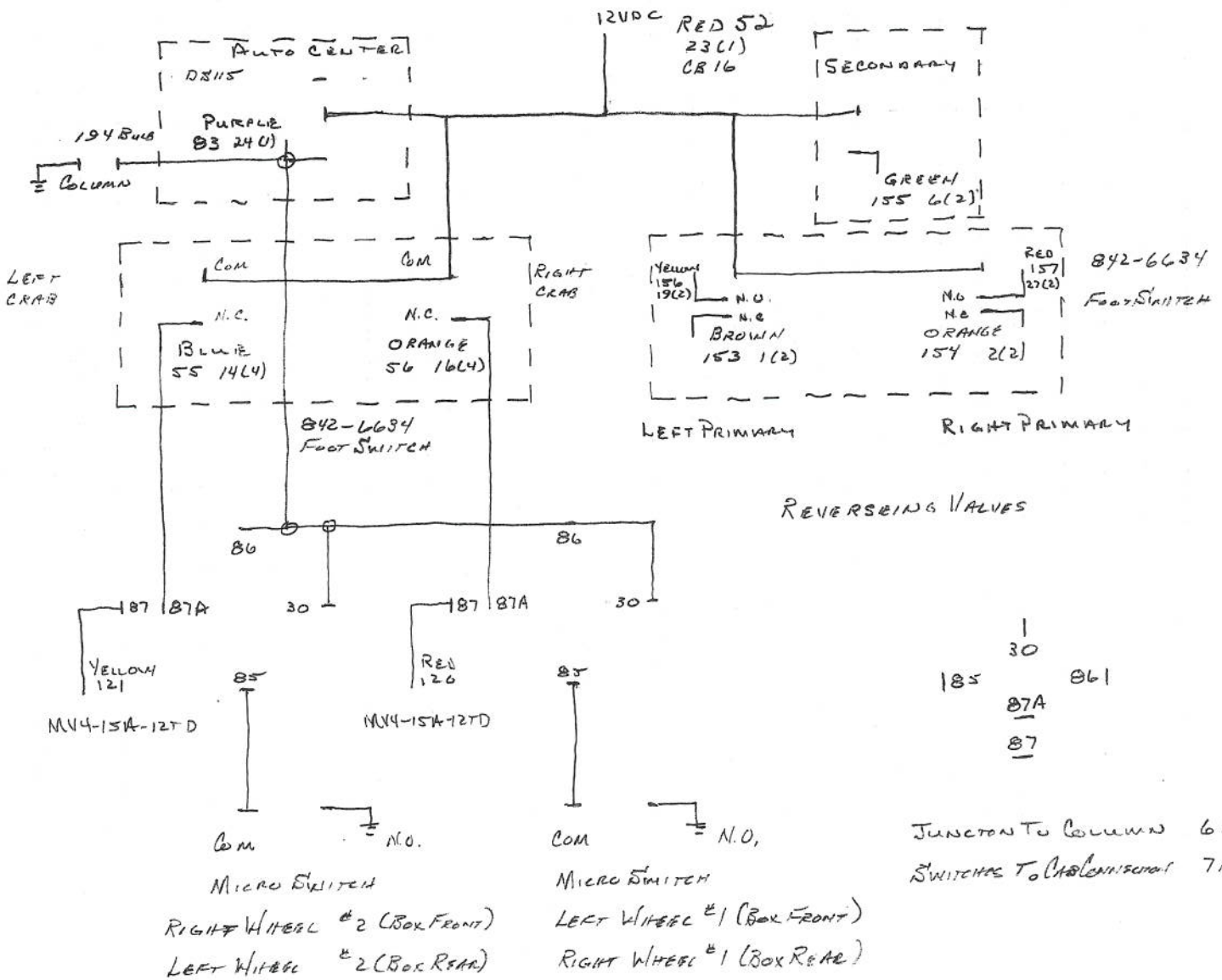
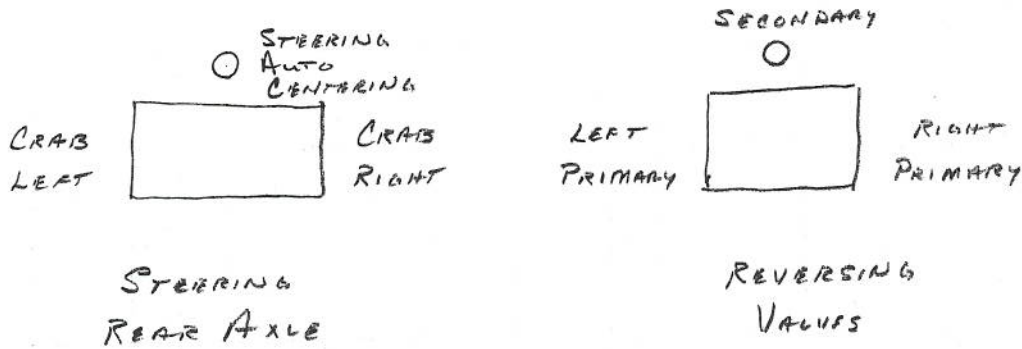
LEFT  
PRIMARY

RIGHT  
PRIMARY

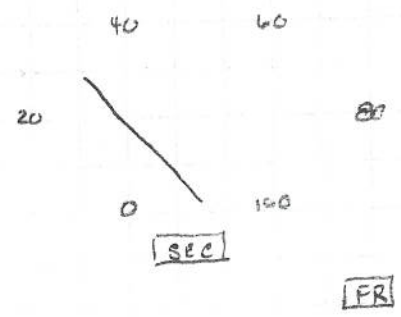
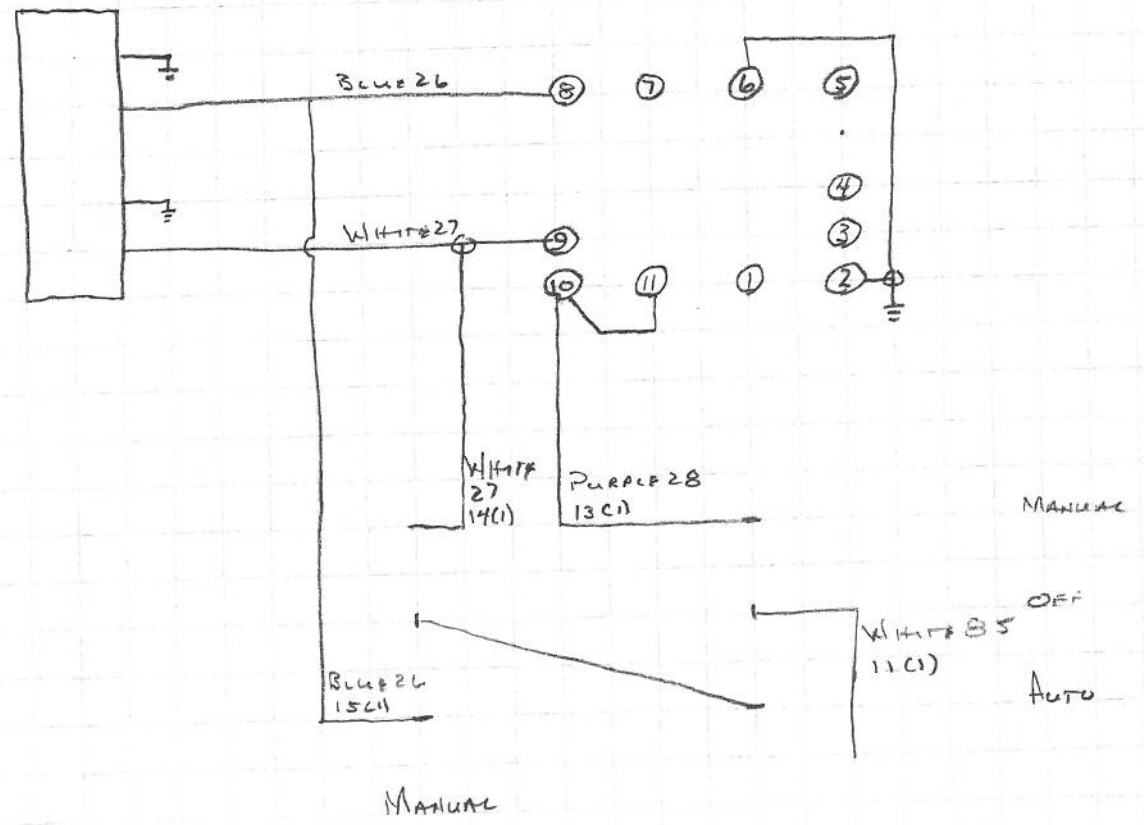
CENTERING

(STEERING COLUMN)

### FOOT PEDAL SWITCHES



# Air Head Cleaner





2-1/16" Ultragege with Memory Recall Instructions  
2-1/16" Ultragege Instructions

**Warning:** Before doing any work on any kind of vehicle, disconnect the negative (-) battery cable from the battery. Failure to do so may result in burns, electrical shock, or other personal injuries.

**Recommended installation technique:**

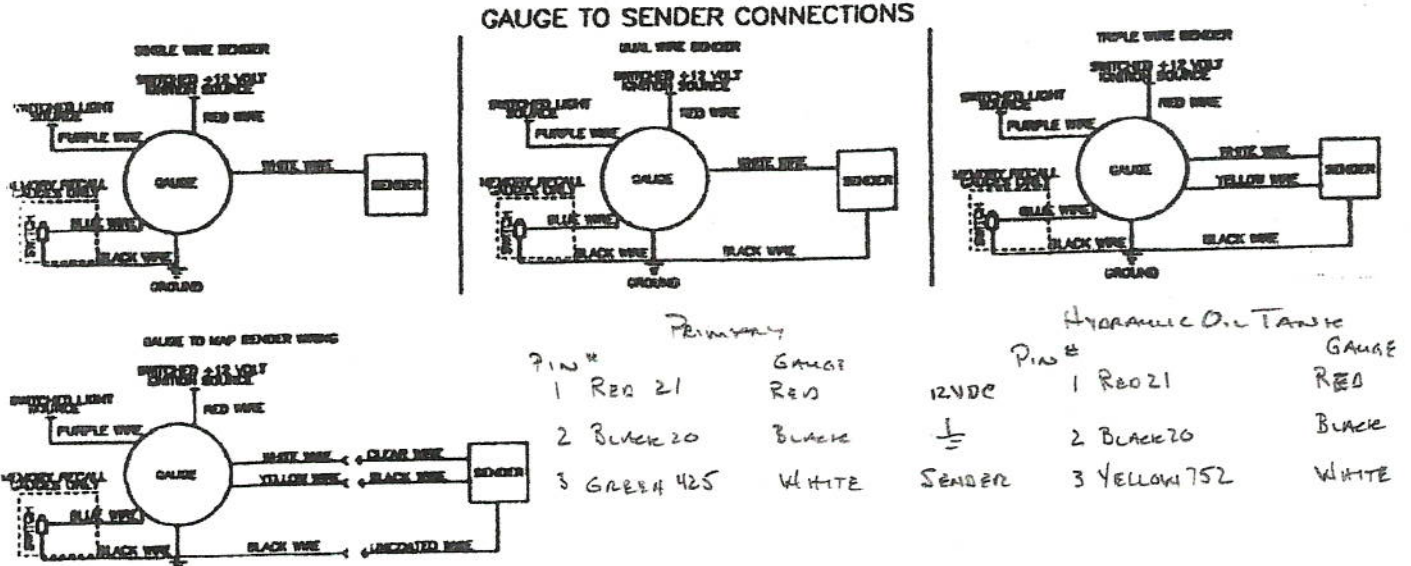
1. Decide on a location to mount the gauge(s).
2. Drill, cut and do whatever it takes to get the location ready to install the gauge(s).
3. Install the sender(s) and switch(s), if applicable. Refer to section "sender installation".
4. Install the gauge, but do not secure into place.
5. Make all wire connections. Refer to section "Gauge, sender, and switch wire connections".
6. Make sure all gauges are functioning. If any problems are encountered refer to the section "troubleshooting".
7. Adjust warning indicators or fuel tank capacity. Refer to section "understanding and setting the warning indicators" or "setting fuel tank capacity".
8. Secure the gauge into place.
9. Read over sections "memory recall" and "special functions".

**Gauge, sender and switch wire connections:**

**Note:** For Vacuum, Boost, Vacuum-Boost gauges, skip this section and go to "Gauge, sender and switch connection using Cyberdyne MAP sender". All other gauges should follow the instructions below.

- Red Wire: **Ignition wire**, hookup to a switched +12 volt ignition source. Ex.: Accessory fuse in fuse box.
- Black Wire: **Ground wire**, mate all black wires from the gauge, sender, switch..., and connect to the engine block.
- Purple Wire: **Dimmer wire**, hookup to a switched light source. Ex.: Any switched light bulb.
- White Wire: **Signal wire**, mate the white wire from the gauge with white wire from the sender.
- Yellow Wire: **+5v accessory Wire**, if sender has a yellow wire mate the yellow wire from the gauge to the senders yellow wire. If sender does not have a yellow wire then cut off any bare wire and tie to a safe place.

Blue Wire (if applicable): **Memory recall wire**, mate blue wire from the gauge to the blue wire on the switch.  
**Note:** All wires should be routed away from the ignition system, spark plug wires or any type of electrical noise imposing wires. Any wire brought through the firewall should be secured through a rubber grommet.

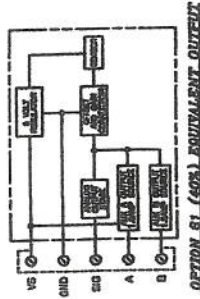
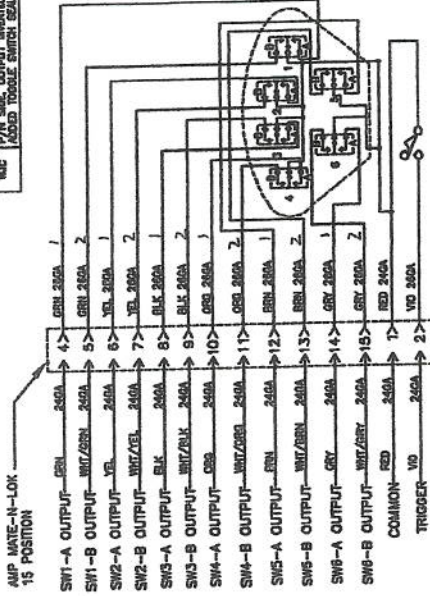


**Vacuum, Boost and Vacuum-Boost Gauge ONLY.**  
Gauge, sender and switch wire connections using Cyberdyne MAP sender

- Red Wire: **Ignition wire**, hookup to a switched +12 volt ignition source. Ex.: Accessory fuse in fuse box.
- Black Wire: **Ground wire**, mate the black wire from the gauge, switch and the uncoated wire from the MAP sender together and connect to the engine block.
- Purple Wire: **Dimmer wire**, hookup to a switched light source. Ex.: Any switched light bulb.
- White Wire: **Signal wire**, mate the white wire from the gauge with clear wire from the sender.
- Yellow Wire: **+5v accessory Wire**, mate the yellow wire from the gauge to the black wire from the sender.
- Blue Wire (if applicable): **Memory recall wire**, mate blue wire from the gauge to the blue wire on the switch.

**Understanding and setting the warning indicators:**

REV.	DESCRIPTION	DATE
A	BOARD IS MOUNTED ON P/N A-00014-03 RIGID TROUBLE SWITCH. ESD	05-14-70

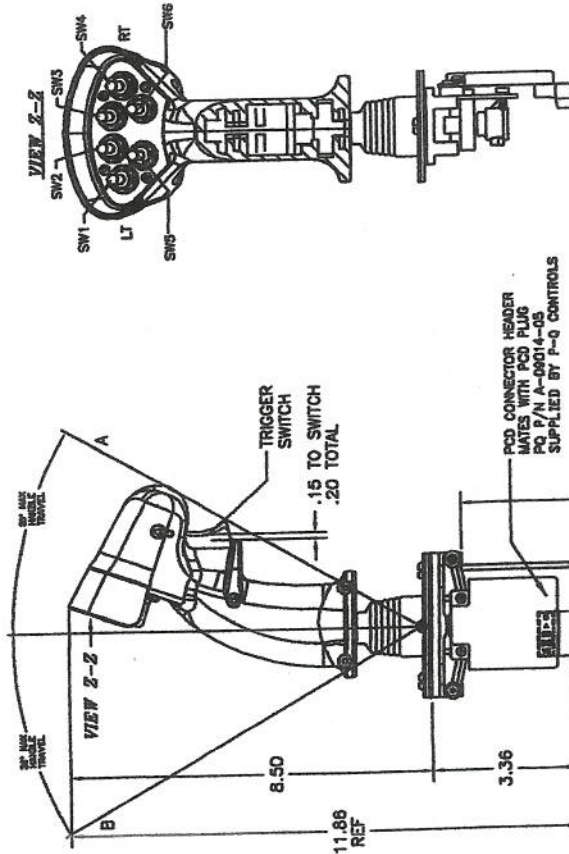
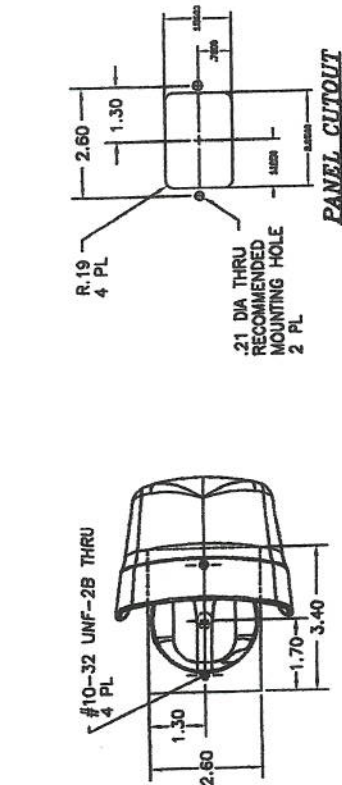


- NOTES: 1) VOLTAGE SUPPLY IS TO BE 10-30VDC.  
 2) CURRENT CONSUMPTION: 20mA @ 12VDC.  
 FULL POSITIVE DEFLECTION - 4.90V ± 0.2V,  
 FULL NEGATIVE DEFLECTION - 0.50V ± 0.2V.  
 3) AUX A OUTPUT SWITCHES ON ANALOG OUTPUTS (X+, Y+),  
 2.62V B OUTPUT SWITCHES ON VS -0.7VDC @ APPROX.  
 2.2V WITH THE NEGATIVE ANALOG OUTPUTS (X-, Y-).  
 4) CONTROL HANDLE HAS FRICTION DRAG WITH A POSITIVE DETENT  
 SET FOR THE CENTER POSITION.  
 5) SWITCH WIRE IS 24GA & 26GA STRANDED WITH TEFLON INSULATION.  
 6) RATING: 24GA = 5AMPS,  
 26GA = 1.3AMPS.  
 7) SWITCH RATING: TRIGGER

VOLTAGE SUPPLY	RESISTIVE LOAD	TUNGSTEN LAMP LOAD	INDUCTIVE LOAD	N.C.
0-15VDC	5A	1.5A	.75A	5A
15-30VDC	2.5A	1.5A	.75A	1.5A

VOLTAGE SUPPLY	RESISTIVE LOAD	INDUCTIVE LOAD
0-25VDC	5A	1A
0-25VDC	2A	2A

7) THE GRIP MUST BE REMOVED FROM THE HANDLE  
 TEMPORARILY TO INSTALL JOYSTICK FROM BELOW PANEL.



**P-O Controls, Inc.**  
 10000 E. 10th Ave.  
 Denver, CO 80231  
 Phone: (303) 751-8844  
 Fax: (303) 751-8811

**M115-1911 INSTALLATION DWG**  
 MSG W/ 6 TOGGLE SWITCHES

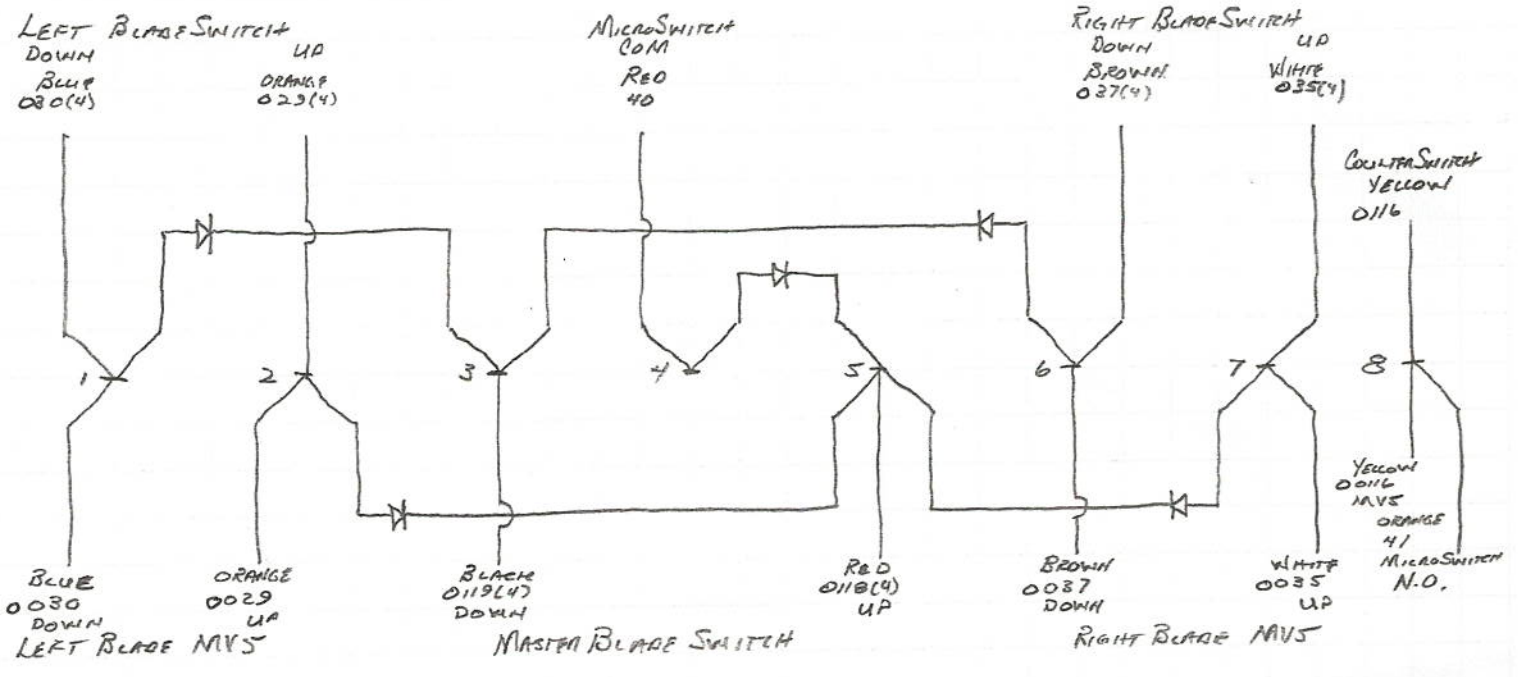
REV. C-13632 A  
 DATE 05-10-10  
 SCALE 1:1

DESIGNED BY: WJC  
 CHECKED BY: [Blank]  
 APPROVED BY: [Blank]

PROJECT: M115-1911  
 DRAWING NO: C-13632 A  
 SHEET NO: 1 OF 1



# BLADE / COULTER CONTROL



PIN 1	BLUE	030
2	ORANGE	029
3	RED	040
4	BROWN	037
5	WHITE	035
6	YELLOW	016
7	BLUE	030
8	ORANGE	029
9	BLACK	019
10	RED	018
11	BROWN	037
12	WHITE	035
13	YELLOW	0016
14	ORANGE	041
15		
16		

MASTER BLADE SWITCH

5	RECTIFIER 6A	266-0086 (276-7661)
1	ENCLOSURE (Q131310PCE)	78351/14069
4 1/2"	MOUNTING TRACK	58371
8	TERMINAL BLOCK	58364
2	END CLAMP	58373
14	512-1220	
14	512-1225	
1	512-1160	16 PIN
1	512-1110	16 PIN
1	512-1280	RELIEF
4	46-32 X 1/4"	

3/8/11  
 #11049  
 Mc Cormick Farm  
 YRSPH6SLAH

A. H. CLEARNER  
 AUTOMATIC

LEVELING

RESET  
 TRANS MORE DEFLECTOR EMPTY  
 AIRHEAD STONEBOX  
 COOLER FAN OFF  
 MANUAL  
 MANUAL  
  
 S P E E D  
 AIRHEAD PUMP  
 PRIMARY SECONDARY SHAKER  
 STAR TABLE  
 STEEL ROLLS  
  
 OFF SPEED LEFT  
 RIGHT  
 LEFT  
 RIGHT  
 DIST. ROLLS SPEED  
 SPACE  
 SPEED

C O N V E Y O R  
 MASTER PRIMARY SECONDARY STAR TABLE CROSS SIDE BIN FILL BIN/BOOM BOOM  
 BIN F I L L O N  
 SPEED MANUAL OFF  
 AUTOMATIC

S P E E D  
 CROSS  
 CROSS DIST.  
 AIR HEAD CONV. SPEED  
 FEED DISCHARGE  
 SPEED  
 BOOM  
 WINDMILL  
 RAISE  
 LOWER  
 HUMP SHAFET  
 COUNTER

BOOM DUTER LIFT  
 BOOM BLADE  
 BOOM SWING  
 BLADE LEFT  
 BLADE RIGHT

ADVANCED FARM EQUIPMENT

ELECTRONIC GAUGES

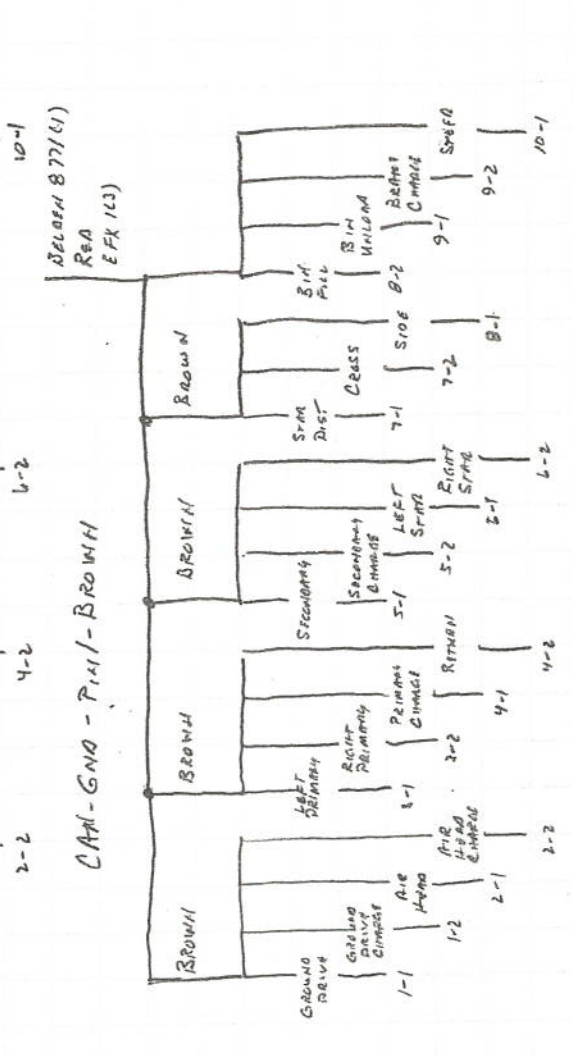
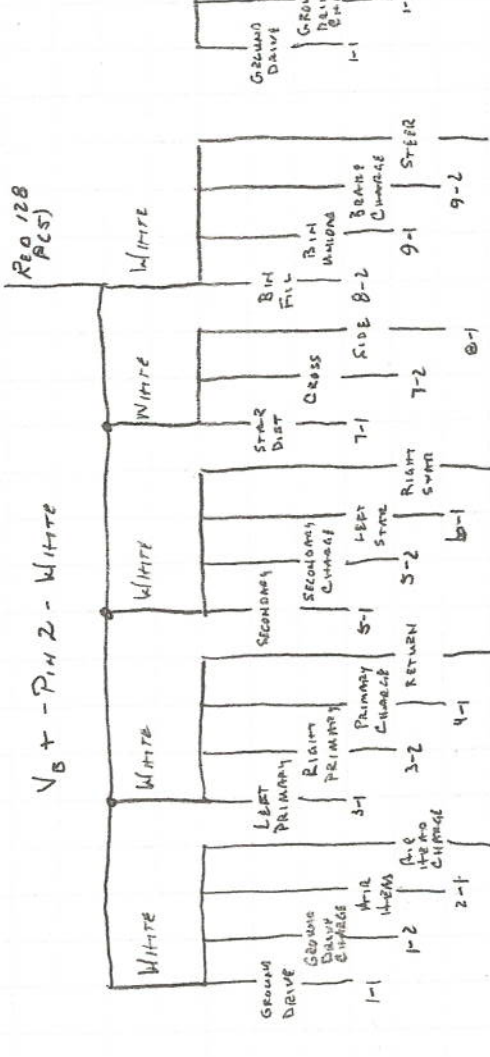
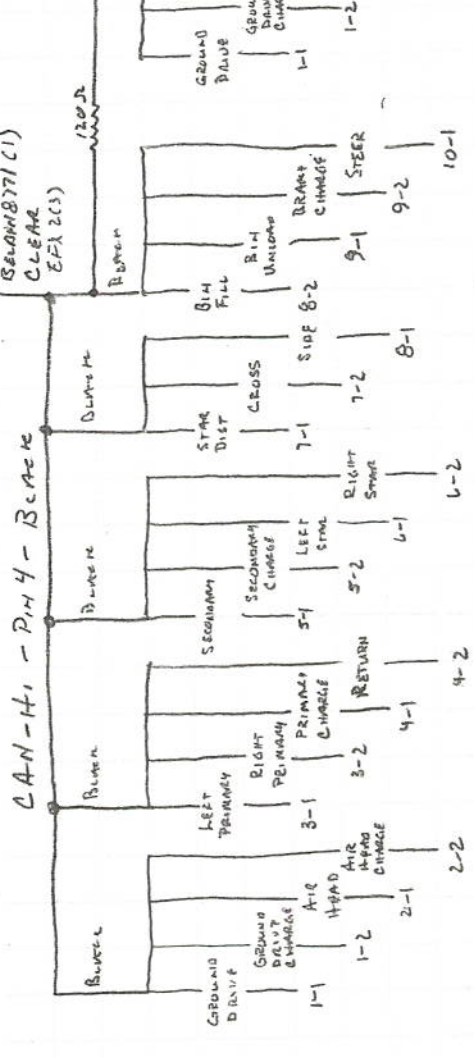
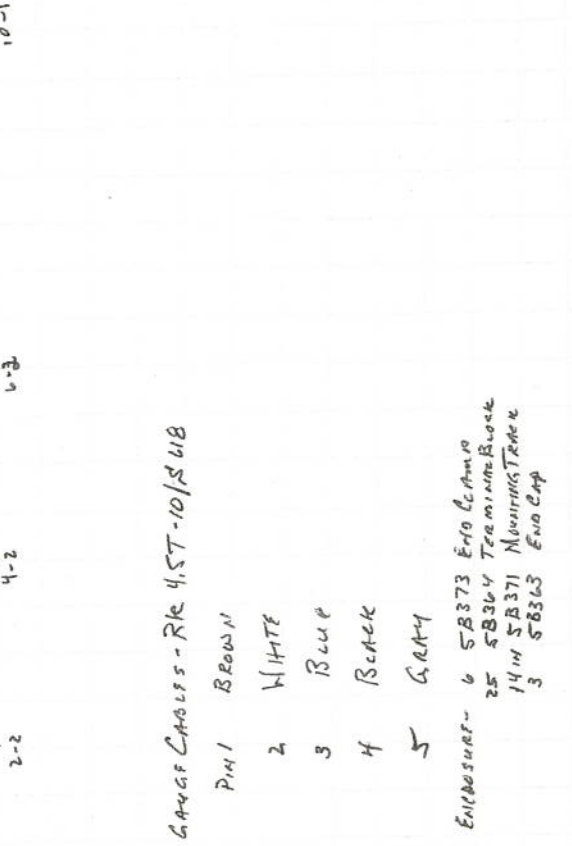
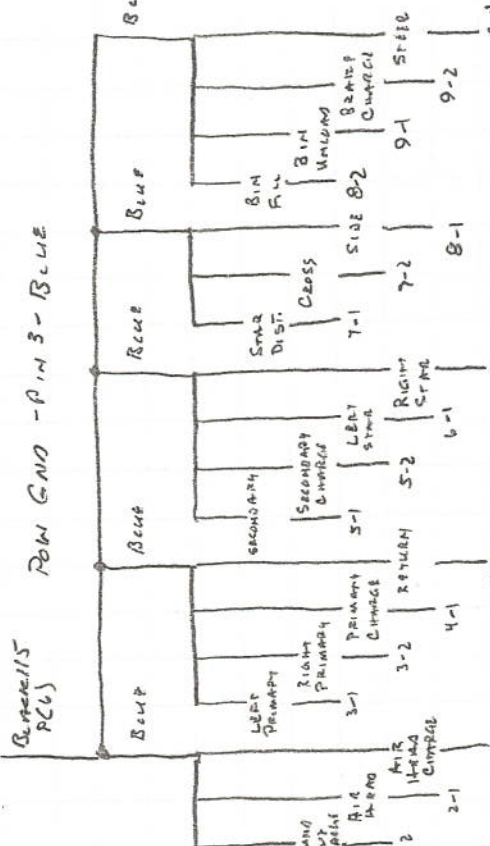
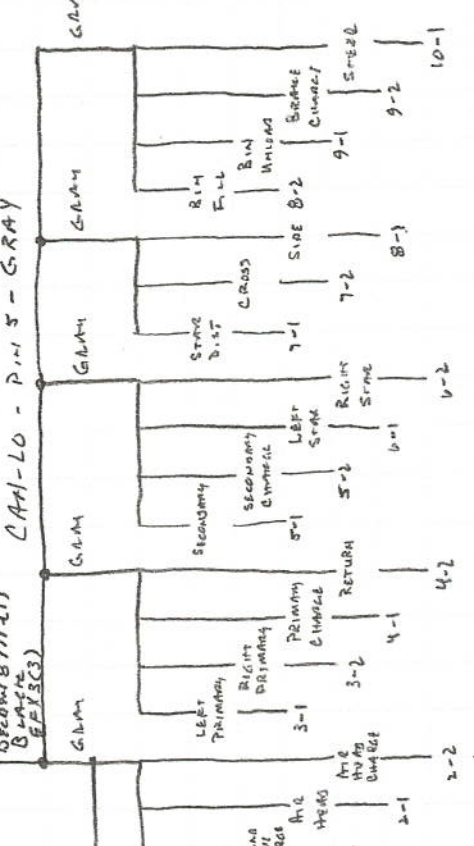
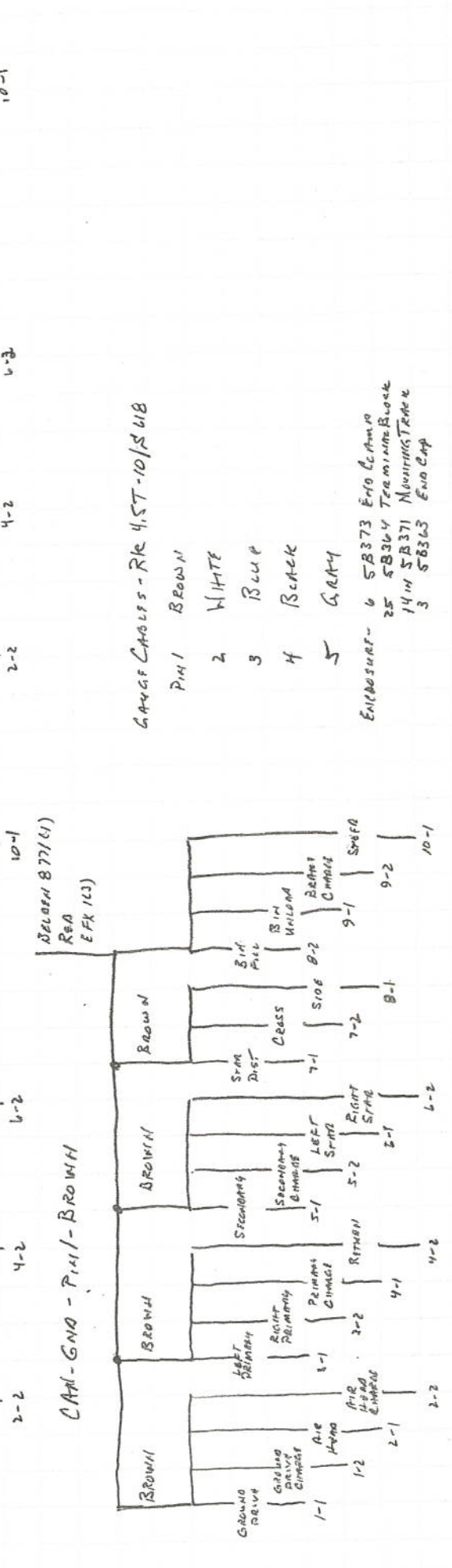
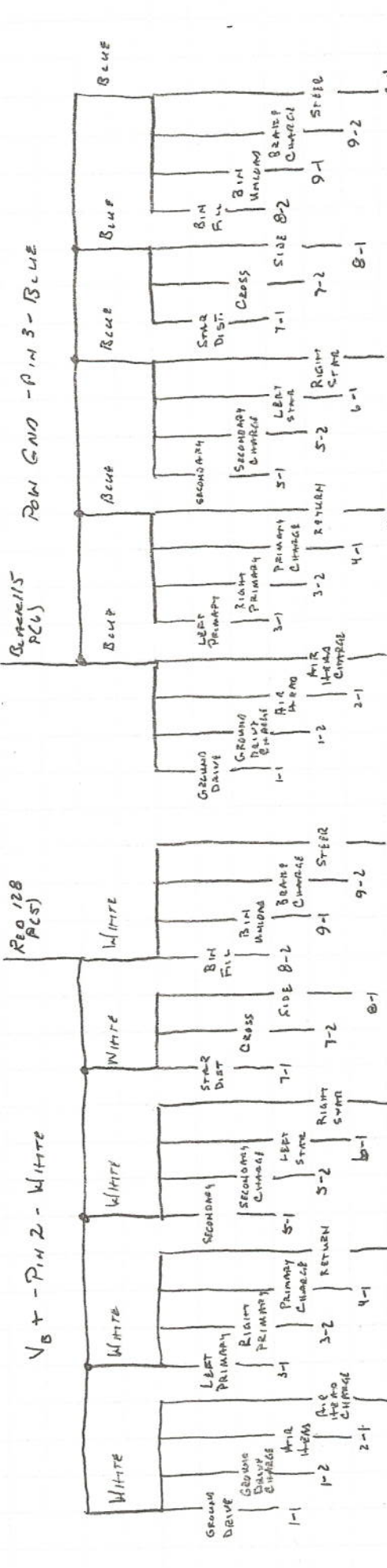
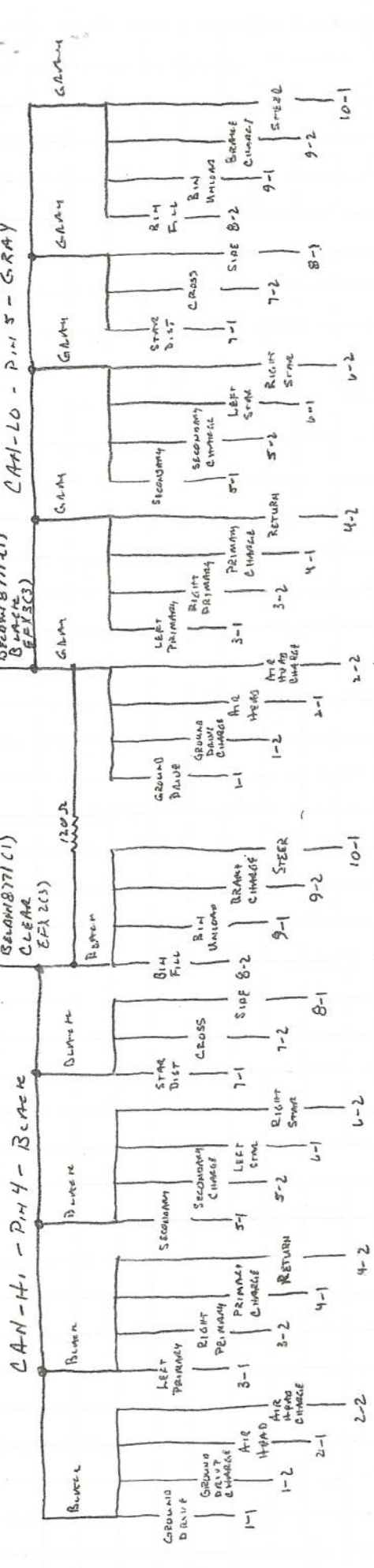
3/10/2011

#11049

MC CORMICK FARMS  
4RSPH65LAH

GAUGE DISPLAY LAYOUT

SCREEN	1	GROUND DRIVE	10000#	600 BAR
		GROUND DRIVE CHARGE	1000#	100 BAR
		AIR HEAD	10000#	600 BAR
		AIR HEAD CHARGE	1000#	100 BAR
SCREEN	2	LEFT PRIMARY	5000#	600 BAR
		RIGHT PRIMARY	5000#	600 BAR
		PRIMARY CHARGE	600#	025 BAR
		RETURN	3000#	600 BAR
SCREEN	3	SECONDARY	5000#	600 BAR
		SECONDARY CHARGE	600#	025 BAR
		LEFT STAR	3000#	600 BAR
		RIGHT STAR	3000#	600 BAR
SCREEN	4	STAR TABLE DIST	3000#	600 BAR
		CROSS	3000#	600 BAR
		SIDE	3000#	600 BAR
SCREEN	5	BIN FILL	3000#	600 BAR
		BIN UNLOAD	3000#	600 BAR
		BRAKE CHARGE	1000#	100 BAR
		STEERING	3000#	600 BAR



GAGE CALLS - RR 4.5T-10/SUB

- PIN 1 BROWN
- 2 WHITE
- 3 BLUE
- 4 BLACK
- 5 GRAY

ENCLOSURE - 6 SB373 ERO CANTON  
 25 SB364 TERMINAL BLOCK  
 14 IN SB371 MOUNTING TRACK  
 3 SB363 END CAP

ADVANCED FARM EQUIPMENT

3/10/2011

ELECTRONIC GAUGES

#11049

MC CORMICK FARMS  
4RSPH65LAH  
ENCLOSURE PINOUTS

PLUG #1

PIN #1	40	1-1	BLACK	GROUND DRIVE	CAN-HI
2		1-1	GRAY	GROUND DRIVE	CAN-LO
3		1-1	WHITE	GROUND DRIVE	V+
4		1-1	BLUE	GROUND DRIVE	POW GND
5		1-1	BROWN	GROUND DRIVE	CAN GND
6	44	1-2	BLACK	GROUND DRIVE CHARGE	CAN-HI
7		1-2	GRAY	GROUND DRIVE CHARGE	CAN-LO
8		1-2	WHITE	GROUND DRIVE CHARGE	V+
9		1-2	BLUE	GROUND DRIVE CHARGE	POW GND
10		1-2	BROWN	GROUND DRIVE CHARGE	CAN GND
11					
12					

PLUG #2

PIN #1	48	2-1	BLACK	AIR HEAD	CAN-HI
2		2-1	GRAY	AIR HEAD	CAN-LO
3		2-1	WHITE	AIR HEAD	V+
4		2-1	BLUE	AIR HEAD	POW GND
5		2-1	BROWN	AIR HEAD	CAN GND
6	45	2-2	BLACK	AIR HEAD CHARGE	CAN-HI
7		2-2	GRAY	AIR HEAD CHARGE	CAN-LO
8		2-2	WHITE	AIR HEAD CHARGE	V+
9		2-2	BLUE	AIR HEAD CHARGE	POW GND
10		2-2	BROWN	AIR HEAD CHARGE	CAN GND
11					
12					

PLUG #3

PIN #1	41	3-1	BLACK	LEFT PRIMARY	CAN-HI
2		3-1	GRAY	LEFT PRIMARY	CAN-LO
3		3-1	WHITE	LEFT PRIMARY	V+
4		3-1	BLUE	LEFT PRIMARY	POW GND
5		3-1	BROWN	LEFT PRIMARY	CAN GND
6	42	3-2	BLACK	RIGHT PRIMARY	CAN-HI
7		3-2	GRAY	RIGHT PRIMARY	CAN-LO
8		3-2	WHITE	RIGHT PRIMARY	V+
9		3-2	BLUE	RIGHT PRIMARY	POW GND
10		3-2	BROWN	RIGHT PRIMARY	CAN GND
11					
12					

ADVANCED FARM EQUIPMENT

3/10/2011

ELECTRONIC GAUGES

#11049

MC CORMICK FARMS  
4RSPH65LAH  
ENCLOSURE PINOUTS

PLUG #4

PIN #1	46	4-1	BLACK	PRIMARY CHARGE	CAN-HI
2		4-1	GRAY	PRIMARY CHARGE	CAN-LO
3		4-1	WHITE	PRIMARY CHARGE	V +
4		4-1	BLUE	PRIMARY CHARGE	POW GND
5		4-1	BROWN	PRIMARY CHARGE	CAN GND
6	50	4-2	BLACK	RETURN OIL	CAN-HI
7		4-2	GRAY	RETURN OIL	CAN-LO
8		4-2	WHITE	RETURN OIL	V +
9		4-2	BLUE	RETURN OIL	POW GND
10		4-2	BROWN	RETURN OIL	CAN GND
11					
12					

PLUG #5

PIN #1	43	5-1	BLACK	SECONDARY	CAN-HI
2		5-1	GRAY	SECONDARY	CAN-LO
3		5-1	WHITE	SECONDARY	V +
4		5-1	BLUE	SECONDARY	POW GND
5		5-1	BROWN	SECONDARY	CAN GND
6	47	5-2	BLACK	SECONDARY CHARGE	CAN-HI
7		5-2	GRAY	SECONDARY CHARGE	CAN-LO
8		5-2	WHITE	SECONDARY CHARGE	V +
9		5-2	BLUE	SECONDARY CHARGE	POW GND
10		5-2	BROWN	SECONDARY CHARGE	CAN GND
11					
12					

PLUG #6

PIN #1	52	6-1	BLACK	LEFT STAR	CAN-HI
2		65-1	GRAY	LEFT STAR	CAN-LO
3		6-1	WHITE	LEFT STAR	V +
4		6-1	BLUE	LEFT STAR	POW GND
5		6-1	BROWN	LEFT STAR	CAN GND
6	51	6-2	BLACK	RIGHT STAR	CAN-HI
7		6-2	GRAY	RIGHT STAR	CAN-LO
8		6-2	WHITE	RIGHT STAR	V +
9		6-2	BLUE	RIGHT STAR	POW GND
10		6-2	BROWN	RIGHT STAR	CAN GND
11					
12					

ADVANCED FARM EQUIPMENT

3/10/2011

ELECTRONIC GAUGES

#11049

MC CORMICK FARMS  
4RSPH65LAH  
ENCLOSURE PINOUTS

PLUG #7

PIN #1					
	53	7-1	BLACK	STAR TABLE DISTRIBUTOR	CAN-HI
2		7-1	GRAY	STAR TABLE DISTRIBUTOR	CAN-LO
3		7-1	WHITE	STAR TABLE DISTRIBUTOR	V +
4		7-1	BLUE	STAR TABLE DISTRIBUTOR	POW GND
5		7-1	BROWN	STAR TABLE DISTRIBUTOR	CAN GND
6	54	7-2	BLACK	CROSS	CAN-HI
7		7-2	GRAY	CROSS	CAN-LO
8		7-2	WHITE	CROSS	V +
9		7-2	BLUE	CROSS	POW GND
10		7-2	BROWN	CROSS	CAN GND
11					
12					

PLUG #8

PIN #1					
	55	8-1	BLACK	SIDE	CAN-HI
2		8-1	GRAY	SIDE	CAN-LO
3		87-1	WHITE	SIDE	V +
4		8-1	BLUE	SIDE	POW GND
5		8-1	BROWN	SIDE	CAN GND
6	57	8-2	BLACK	BIN FILL	CAN-HI
7		8-2	GRAY	BIN FILL	CAN-LO
8		8-2	WHITE	BIN FILL	V +
9		8-2	BLUE	BIN FILL	POW GND
10		8-2	BROWN	BIN FILL	CAN GND
11					
12					

PLUG #9

PIN #1					
	56	9-1	BLACK	BIN UNLOAD	CAN-HI
2		9-1	GRAY	BIN UNLOAD	CAN-LO
3		9-1	WHITE	BIN UNLOAD	V +
4		9-1	BLUE	BIN UNLOAD	POW GND
5		9-1	BROWN	BIN UNLOAD	CAN GND
6	49	9-2	BLACK	BRAKE CHARGE	CAN-HI
7		9-2	GRAY	BRAKE CHARGE	CAN-LO
8		9-2	WHITE	BRAKE CHARGE	V +
9		9-2	BLUE	BRAKE CHARGE	POW GND
10		9-2	BROWN	BRAKE CHARGE	CAN GND
11					
12					

ADVANCED FARM EQUIPMENT

3/10/2011

ELECTRONIC GAUGES

#11049

MC CORMICK FARMS  
4RSPH65LAH  
ENCLOSURE PINOUTS

		PLUG #10			
PIN #1	50	10-1	BLACK	STEERING	CAN-HI
2		10-1	GRAY	STEERING	CAN-LO
3		10-1	WHITE	STEERING	V +
4		10-1	BLUE	STEERING	POW GND
5		10-1	BROWN	STEERING	CAN GND
6					
7			CLEAR	CAN-HI TO EFX MODULE	BELDEN 8771 (1) 2 (3)
8			BLACK	CAN-LO TO EFX MODULE	BELDEN 8771 (1) 3 (3)
9			RED	CAN GND TO EFX MODULE	BELDEN 8771 (1) 1 (3)
10					
11		RED	128	V + FROM DISTRIBUTION PANEL	P (5)
12		BLACK	115	- BATT - GROUND TO DISTRIBUTION PANEL GROUND	P (6)



1 - 52848 MOI-CAN TRANSDUCER 025 BAR  
 5 - 52725 MOI-CAN TRANSDUCER 100 BAR  
 13 - 52724 MOI-CAN TRANSDUCER 600 BAR

node - serial number	bar	psi	Notes:	BaudRate
40 - 11.106744.1011 ✓ Ground Drive	600	8700	50mS rate	250kB X 11-4XAXL65TP-S
41 - 11.106774.1010 ✓ Left Primary	600	8700	250mS rate	250kB X
42 - 11.106774.1003 ✓ Right Primary	600	8700	250mS rate	250kB X
43 - 11.106774.1007 ✓ Secondary	600	8700	250mS rate	250kB X
44 - 11.106495.1002 ✓ Ground Drive Charge	100	1450	250mS rate	250kB 6404-04x04 / GP6400-08-08-04
45 - 10.091677.1009 ✓ Airhead Charge	100	1450	250mS rate	250kB 6404-04x04 FAULTY REPAIR 6/11
46 - 11.106495			nS rate	250kB 6404-04x04
47 - 11.106495			nS rate	250kB X
48 - 11.106774			nS rate	250kB X
49 - 11.109223			nS rate	250kB X 607-04/6404-04x04
50 - 11.106774			nS rate	250kB X 6410-06-04
51 - 11.103091			nS rate	250kB X 6410-06-04
52 - 11.106774			nS rate	250kB X 6410-06-04
53 - 11.106774			nS rate	250kB X 6410-06-04
54 - 11.106774			nS rate	250kB X 6410-06-04
55 - 11.106774			nS rate	250kB X 6410-06-04
56 - 11.106774			nS rate	250kB X 6410-06-04
57 - 11.106774			nS rate	250kB X 6405-12-08/5406-08-04/6404-04-04
58 - 10.091677			nS rate	250kB

McCormick Farms  
 Air Head Charge  
 11.109223.1002  
 Blown Top 8/25/11

- ✓ 1 GROUND
- ✓ 2 AIR HEADS  
AIR HEADS CHARGE
- ✓ 3 LEFT PRIMARY  
RIGHT PRIMARY
- ✓ 4 PRIMARY CHARGE  
RETURN OIL
- ✓ 5 SECONDARY  
SECONDARY CHARGE
- ✓ 6 LEFT STAR  
RIGHT STAR

- ✓ 8 SIDE  
BIN FILL
- ✓ 9 BIN UNLOAD  
BRAKE CHARGE
- ✓ 10 STEERING

4/8/2011

11.109223.1002  
 ALL DISTRIBUTION

**Chris Stratton**

From: "Burgess, Brian" <bburgess@dtsfluidpower.com>  
 Date: Wednesday, May 25, 2011 2:05 PM  
 To: "Chris Stratton" <Chris.S@lenco-harvesters.com>  
 Subject: McCormick

Sensor info for your records (below)

PS: Chris, Doug Austin asked me about the configuration tool for these sensors on your behalf. Do you need anything else related to the sensors?

node - serial number		bar	psi	Notes:	BaudRate
10 - 11.106744.1011	Ground Drive	600	8700	50mS rate	250kB
11 - 11.106774.1010	Left Primary	600	8700	250mS rate	250kB
12 - 11.106774.1003	Right Primary	600	8700	250mS rate	250kB
13 - 11.106774.1007	Secondary	600	8700	250mS rate	250kB
14 - 11.106495.1002	Ground Drive Charge	100	1450	250mS rate	250kB
15 - 10.091677.1009	Airhead Charge	100	1450	250mS rate	250kB
16 - 11.106495.1003	Primary Charge	100	1450	250mS rate	250kB
17 - 11.106495.1001	Secondary Charge	100	1450	250mS rate	250kB
18 - 11.106774.1005	Airhead	600	8700	250mS rate	250kB
19 - 11.109223.1004	Brake Charge	100	1450	250mS rate	250kB
20 - 11.106774.1002	Steering	600	8700	250mS rate	250kB
21 - 11.103091.1002	Right Star	600	8700	250mS rate	250kB
22 - 11.106774.1012	Left Star	600	8700	250mS rate	250kB
23 - 11.106774.1009	Star Table Dist	600	8700	250mS rate	250kB
24 - 11.106774.1004	Cross	600	8700	250mS rate	250kB
25 - 11.106774.1001	Side	600	8700	250mS rate	250kB
26 - 11.106774.1008	Bin	600	8700	250mS rate	250kB
27 - 11.106774.1006	Fill	600	8700	250mS rate	250kB
28 - 10.091678.1003	Return Line	25	362.5	250mS rate	250kB

FAULTY - REPLACED 6/1/11  
 11.109223.1002 (TOO SLOW)  
 (OFF 8/23/11)

Air Head Charge 11.109223.1002