#12052

Meyer

4RPTH W/AR

WARNING

- CROSS PRESS HIGH
- LOW HYD. TANK OIL

POWER

- WHEN LIT
- ON
- OFF

WORK LIGHTS

- BACK UP
- LEFT
- RIGHT

REAR STEER AUTO CENTER

- WHEN LIT

WARNING LIGHTS

- FLASHERS
- STROBE

BIN FILL

- SYSTEM ERROR
- TRAVEL MODE
- MANUAL
- AUTOMATIC

SPEED CONTROLS

- AIR KNIFE
- KICKER
- CROSS
- CROSS DIST.
- SIDE
- SIDE DIST.
- BIN FILL
- BIN UNLOAD

SPEED STAR TABLE

- STEEL SPACE
- ROLL SPEED
- LEFT
- RIGHT

CONTROLS PRIMARY

- SHAKER
- SECONDARY
- LEFT
- RIGHT

CONVEYORS

- AIR KNIFE
- BOOM
- BIN ~~UNLOAD~~ BOOM
- SIDE

CYLINDERS BOOM

- CROSS
- SWING
- LIFT
- OUTER

CONVEYORS

- STAR TABLE
- SECONDARY
- SHAKER
- PRIMARY
- MASTER

COULTER

- BLADE

WARNING

CROSS PRESS HIGH	LOW HYD. TANK OIL
WHITE 61	YELLOW 20

POWER

	ON
WHEN LIT	OFF

WORK LIGHTS

BACK UP	LEFT	RIGHT
BROWN 06	BLACK 034	BLUE 036

REAR STEER AUTO CENTER

WHEN LIT
PURPLE 183

WARNING LIGHTS

FLASHERS	STROBE
YELLOW 53	RED 29

BIN FILL

SYSTEM ERROR	TRAVEL MODE	MANUAL	AUTOMATIC
WHITE 371	WHITE 41	BLUE 71 ORANGE 72	RED 75

SPEED CONTROLS

AIR KNIFE	KICKER	CROSS	CROSS DIST.	SIDE	SIDE DIST.	BIN FILL	BIN UNLOAD
BLACK BLUE 1 ORANGE 1	PURPLE 84 ORANGE 85	YELLOW 76 GREEN 77	ORANGE 47 WHITE 48	PURPLE 69 RED 70	GREEN 51 WHITE 52	YELLOW 42 WHITE 43	GREEN 78 BROWN 79

SPEED CONTROLS STAR TABLE PRIMARY

STEEL ROLL SPACE	ROLL SPEED	LEFT	RIGHT	SHAKER	SECONDARY	LEFT	RIGHT
BLACK 151 RED 152	RED 149 YELLOW 150	WHITE 65 PURPLE 66	BROWN 37 GREEN 38	RED 32 YELLOW 33	ORANGE 4 ORANGE 9	BLACK BLUE / WHITE GREEN / WHITE	BLACK BLUE / BLACK RED / BLACK

CONVEYORS

AIR KNIFE	BOOM	BIN UNLOAD	SIDE	CROSS
BLACK 1	BLACK 22	ORANGE 50 BLACK 22	YELLOW 5	BROWN 16

CYLINDERS BOOM

SWING	LIFT	OUTER
PURPLE 114 GREEN 115	WHITE 112 BROWN 113	ORANGE 110 BLUE 111

CONVEYORS

STAR TABLE	SECONDARY	SHAKER	PRIMARY	MASTER		BLADE
RED 82	BROWN 11	BLUE 80	BLACK / WHITE			BLACK 119 RED 118

WARNING

CROSS PRESS HIGH	LOW HYD. TANK OIL
BZL-13	BZL-13

POWER

WHEN LIT	ON OFF
TGA20	2X464

WORK LIGHTS

BACK UP	LEFT	RIGHT
2X464	2X464	2X464

REAR STEER AUTO CENTER

WHEN LIT
TGA20

WARNING LIGHTS

FLASHERS	STROBE
2X464	2X464

BIN FILL

SYSTEM ERROR	TRAVEL MODE	MANUAL	AUTOMATIC
TGA10	2X464	4X203 ~~2X464~~	2X464

SPEED CONTROLS

AIRKNIFE	KICKER	CROSS	CROSS DIST.	SIDE	SIDE DIST.	BIN FILL	BIN UNLOAD
POT 753-5261 KNOB 664-1654 RESIS. 895-0362	S208C-BK	SS208C-BK	SS208C-BK	SS208C-BK	SS208C-BK	SS208C-BK	SS208C-BK

SPEED CONTROLS

STAR TABLE

STEEL SPACE	ROLL SPEED	LEFT	RIGHT
SS208C-BK	SS208C-BK	SS208C-BK	SS208C-BK

SHAKER

SECONDARY
SS208C-BK

PRIMARY

LEFT	RIGHT
POT 753-5261 KNOB 664-1654 RESISTOR 895-0382	

CONVEYORS

AIR KNIFE	BOOM	BIN ~~UNLOAD~~ Loader TG6143	SIDE	CROSS
2X464	2X464		2X464	2X464

CYLINDERS BOOM

SWING	LIFT	OUTER
4X203	4X203	4X203

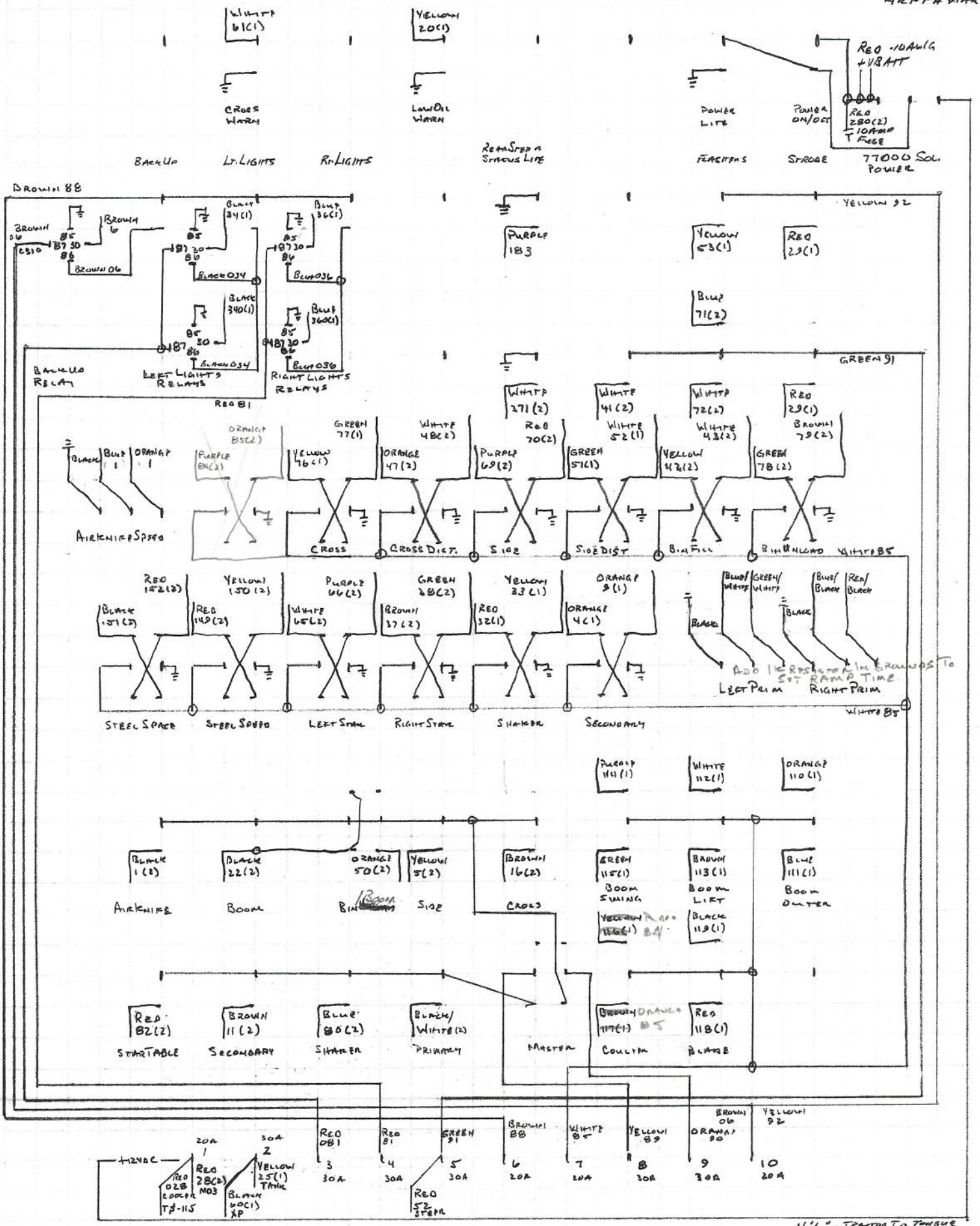
CONVEYORS

STAR TABLE	SECONDARY	SHAKER	PRIMARY	MASTER
2X464	2X464	2X464	2X464	TG6143

CYLINDERS

Coulter 4X203	BLADE
	4X203

10/26/11
12052
JOHN D. MYERS FARMS
4RPTH WIRE



12052 **JOHN D. MYERS FARMS** 10/10/11

4RPTHWAR

PLUG #1 RIGHT

PIN #				
1				
2	PURPLE	114	BOOM SWING MV5 VALVE DOWN	
3	ORANGE	4	SECONDARY RDRS112-30 ACTUATOR	
4	YELLOW	53	FLASHERS	
5	BROWN	6	BACK UP LIGHTS	
6				
7	GREEN	115	BOOM SWING MV5 VALVE UP	
8	ORANGE	9	SECONDARY RDRS112-30 ACTUATOR	
9	PURPLE	83	AUTO CENTER SWITCH TO RELAY	
10	BLACK	60	CB2 TO CROSS PRESSUR ESWITCH - "COM"	
11	WHITE	61	CROSS PRESSURE SWITCH N.O.	
12	BROWN	153	LEFT PRIMARY REVERSING - REVERSE	
13	WHITE	112	BOOM LIFT MV5 VALVE	
14	ORANGE	110	BOOM OUTER MV5 VALVE UP	
15	YELLOW	156	LEFT PRIMARY REVERSING - FORWARD	
16	BROWN	113	BOOM LIFT MV5 VALVE	
17	BLUE	111	BOOM OUTER MV5 VALVE DOWN	
18	YELLOW	20	HYDRAULIC OIL LEVEL SENSOR TO BZL-13	
19	YELLOW	25	CB 2 TO HYDRAULIC OIL LEVEL SENSOR	
20	YELLOW	76	CROSS RDRS112-30 ACTUATOR	
21	GREEN	77	CROSS RDRS112-30 ACTUATOR	
22	RED	157	RIGHT PRIMARY REVERSING - FORWARD	
23	ORANGE	154	RIGHT PRIMARY REVERSING - REVERSE	
24	RED	32	SHAKER RDRS112-30 ACTUATOR	
25	YELLOW	33	SHAKER RDRS112-30 ACTUATOR	
26	BLACK	34	LEFT WORK LIGHTS - FORWARD (BIN - SIDE DIST - LT. PRIM.)	
27	GREEN	51	SIDE DISTRIBUTOR RDRS112-30 ACTUATOR	
28	WHITE	52	SIDE DISTRIBUTOR RDRS112-30 ACTUATOR	
29	RED	118	BLADE UP MV5 VALVE	
30	BLACK	119	BLADE DOWN MV5 VALVE	
31	BLACK	340	LEFT WORK LIGHTS - REAR (SIDE (2) - LT. STAR - LT SEC.)	
32	RED	29	STROBE LIGHT	
33	GREEN	155	SECONDARY REVERSE	
34	BLUE	55	LEFT STEER MV4 VALVE	
35	ORANGE	56	RIGHT STEER MV4 VALVE	
36	BLUE	36	RIGHT WORK LIGHTS - FRONT (RT PRIM. - BIN - BOOM (2))	
37	BLUE	360	RIGHT WORK LIGHTS - REAR (CROSS - RT. PRIM. - RT. SEC.)	
			RtSTARTABLE	
PIN #			**9 PIN PLUG - RIGHT**	
1	BLACK	1	AIR KNIFE CONTROLLER POWER SUPPLY	JUNCTION - 4
2	ORANGE	1	AIR KNIFE CONTROLLER COMMAND SIGNAL	JUNCTION - 2
3	BLUE	1	AIR KNIFE CONTROLLER COMMAND SIGNAL	JUNCTION - 3
4	BLACK / WHITE		LEFT / RIGHT PRIMARY CONTROLLER POWER SUPPLY	JUNCTION - 8
5	BLUE / WHITE		LEFT PRIMARY CONTROLLER COMMAND SIGNAL	JUNCTION - 6
6	GREEN / WHITE		LEFT PRIMARY CONTROLLER COMMAND SIGNAL	JUNCTION - 7
7	BLUE / BLACK		RIGHT PRIMARY CONTROLLER COMMAND SIGNAL	JUNCTION - 10
8	RED / BLACK		RIGHT PRIMARY CONTROLLER COMMAND SIGNAL	JUNCTION - 11
9	BLACK	0020	KAR-TECH PANEL TO CONTROL PANEL GROUND	JUNCTION - 15

12052 **JOHN D. MYERS FARMS** 10/10/11

4RPTHWAR

PLUG #2 RIGHT

PIN #				
1	WHITE	65	LEFT STAR TABLE RDRS112-30 ACTUATOR	
2	PURPLE	66	LEFT STAR TABLE RDRS112-30 ACTUATOR	
3	BROWN	37	RIGHT STAR TABLE RDRS112-30 ACTUATOR	
4	GREEN	38	RIGHT STAR TABLE RDRS112-30 ACTUATOR	
5	RED	28	CB1 TO MD3 / XA2 - +12VDC	
6	RED	280	10 AMP FAST ACTING FUSE CONTINUOUS POWER TO "RTC" IN MD3 MODULE	
7	RED	149	STEEL ROLL RDRS112-30 ACTUATOR	
8	YELLOW	150	STEEL ROLL RDRS112-30 ACTUATOR	
9	BLACK	151	STEEL ROLL SPACE ACTUATOR	
10	RED	152	STEEL ROLL SPACE ACTUATOR	
11	WHITE	371	BIN FILL SYSTEM ERROR	
12	WHITE	41	BIN FILL SYSTEM TRAVEL MODE	
13	BLUE	71	BIN FILL SYSTEM MANUAL (DOWN)	
14	ORANGE	72	BIN FILL SYSTEM MANUAL (UP)	
15	RED	75	BIN FILL SYSTEM AUTOMATIC	
16	BROWN	11	SECONDARY SWITCH TO DTS-0373B (A) SOLENOID	
17	RED	82	STAR TABLE SWITCH TO DTS-0373B (A) SOLENOID'S (2)	
18	BROWN	16	CROSS SWITCH TO DTS-0373B (B) SOLENOID	
19	YELLOW	5	SIDE SWITCH TO DTS-0373B (B) SOLENOID	
20	ORANGE	50	BIN UNLOAD SWITCH TO SV3-16-0-12T-12DG SOLENOID	
21	BLACK	22	BOOM SWITCH TO DTS-0373B (B) SOLENOID	
22	ORANGE	47	CROSS DISTRIBUTOR ROLLS RDRS112-30 ACTUATOR	
23	~~BLUE~~ WHITE	48	CROSS DISTRIBUTOR ROLLS RDRS112-30 ACTUATOR	
24	GREEN	78	BIN UNLOAD RDRS1112-30 ACTUATOR	
25	BROWN	79	BIN UNLOAD RDRS1112-30 ACTUATOR	
26	YELLOW	42	BIN FILL RDRS112-30 ACTUATOR	
27	WHITE	43	BIN FILL RDRS112-30 ACTUATOR	
28	PURPLE	69	SIDE RDRS112-30 ACTUATOR	
29	RED	70	SIDE RDRS112-30 ACTUATOR	
30	PURPLE	84	KICKER SWITCH TO RDRS112-30 ACTUATOR MVS VALVE?	
31	ORANGE	85	KICKER SWITCH TO RDRS112-30 ACTUATOR MVS VALVE?	
32	BLUE	80	SHAKER / KICKER SWITCH TO DTS-0373B (A)	
33	RED	028	CB1 TO COOLER TC-115 SWITCH TO SV3-10-C-8H-12DG SOLENOID	
34				
35				
36				
37				

PIN # **3 PIN PLUG - RIGHT**

1	BLACK	10 AWG	FRAME GROUND TO PANEL GROUND	
2	BLACK	10 AWG 20	~~KAR-TECH~~ GROUND TO PANEL GROUND	
3	BLACK	15	MD3 / XA2 GROUND TO PANEL GROUND	

12052 **JOHN D. MYERS FARMS** **10/10/11**

4RPTHWAR

PIN #			**KAR-TECH ENCLOSURE**	BELDEN WIRE
1				
2	ORANGE	1	AIR KNIFE POTENTIOMETER TERMINAL #2 TO JUNCTION - 2	8468
3	BLUE	1	AIR KNIFE POTENTIOMETER TERMINAL #3 TO JUBCTION - 3	8468
4	BLACK	1	AIR KNIFE SWITCH - ON / OFF TO JUNCTION - 4	8468
5				
6	BLUE / WHITE		LEFT PRIM. POTENTIOMETER TERMINAL #2 TO JUNCTION - 6	8468
7	GREEN / WHITE		LEFT PRIM. POTENTIOMETER TERMINAL #3 TO JUNCTION - 7	8468
8	BLACK / WHITE		LEFT / RIGHT PRIMARY SWITCH - ON / OFF TO JUNCTION - 8	8468
9				
10	BLUE / BLACK		RIGHT PRIM. POTENTIOMETER TERMINAL #2 TO JUNCTION - 10	8468
11	RED / BLACK		RIGHT PRIM. POTENTIOMETER TERMINAL #3 TO JUNCTION - 11	8468
12	BLACK	0020	KAR-TECH GROUND TO PANEL GROUND	

PIN #			**KAR-TECH ENCLOSURE**	
1	WHITE		AIR KNIFE COIL #1 PIN "A" TO JUNCTION - 1	9418
2	GREEN		LEFT PRIMARY COIL #1 - PIN "A" TO JUNCTION - 5	9418
3	RED		RIGHT PRIMARY COIL #1 - PIN "A" JUNCTION - 9	9418
4	BLACK		PIN "B" PUMP GROUNDS TO JUNCTION - 13	

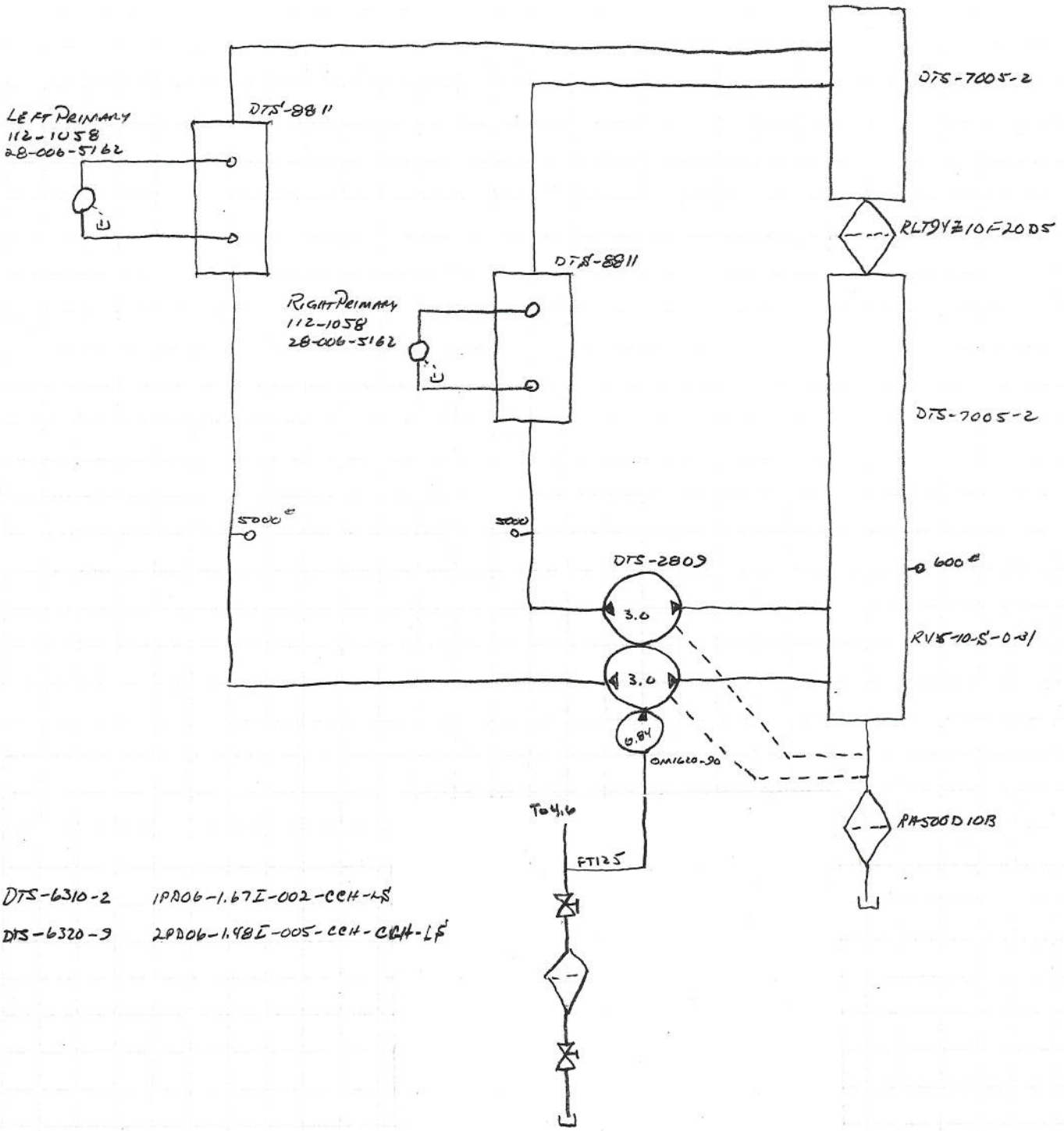
PUMP COIL #1 PIN - A COMMAND SIGNAL
PIN - B COIL GROUND

LARGE 16 PIN PLUG

PIN #			**FOOT PEDAL PLUG - LEFT**	
1	RED		+VBATT - +12VDC POWER SUPPLY	10 AWG
2	RED	52	CB3 - + 12VDC POWER SUPPLY	
3	PURPLE	83	AUTO CENTER SWITCH TO RELAY	
4	PURPLE	183	AUTO CENTER SWITCH TO STATUS LAMP	
5	BLUE	55	LEFT STEER PEDAL TO RELAY	
6	ORANGE	56	RIGHT STEER PEDAL TO RELAY	
7	RED		+ BATT - +12 VDC POWER SUPPLY	10 AWG
8	BROWN	153	LEFT PRIMARY REVERSE	
9	ORANGE	154	RIGHT PRIMARY REVERSE	
10	BLACK		-BATT - GROUND	10 AWG
11	GREEN	155	SECONDARY REVERSE	
12	YELLOW	156	LEFT PRIMARY FORWARD	
13	RED	157	RIGHT PRIMARY FORWARD	
14	RED		CAMERA +VBATT	
15	BLACK		-VBATT - BATTERY GROUND	
16	BLACK		CAMERA -VBATT	

	RED	120	STEERING BOX TO MV4 VALVE	
	YELLOW	121	STEERING BOX TO MV4 VALVE	

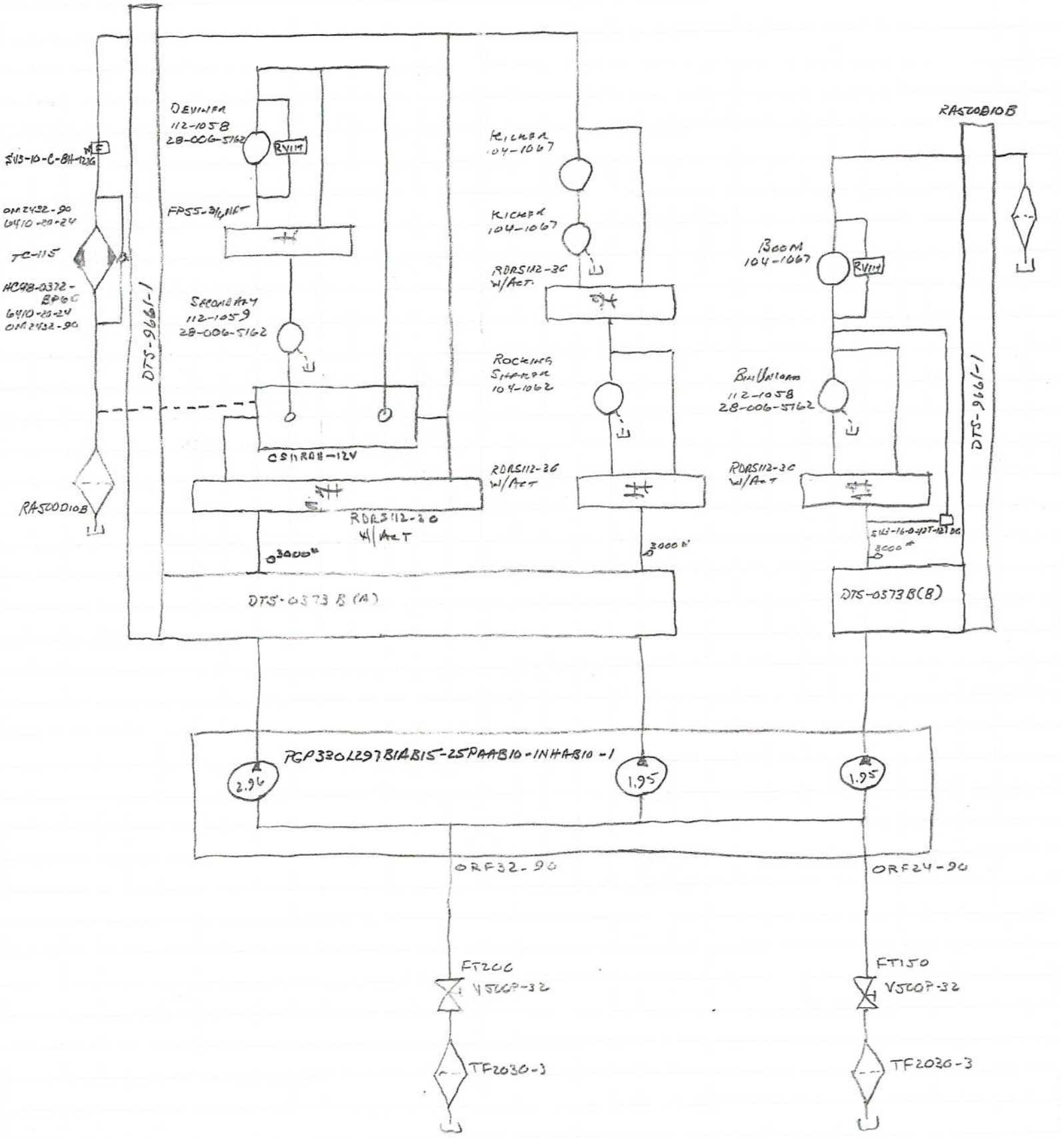
10/27/11
#12052
NEVER
4RPT 4 WAR



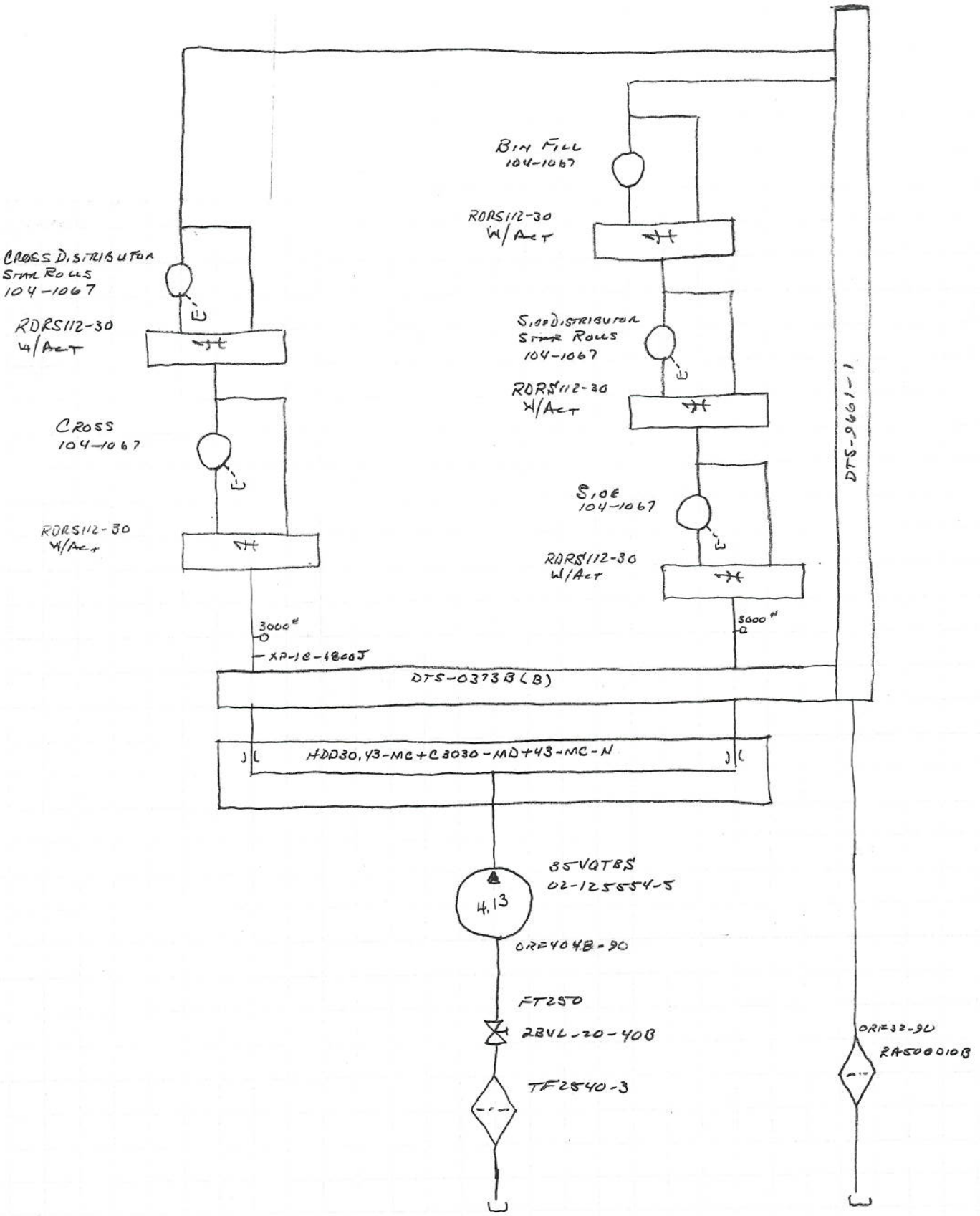
DTS-6310-2 1PA06-1.67I-002-CCH-LF

DTS-6320-3 2PA06-1.48I-005-CCH-CRH-LF

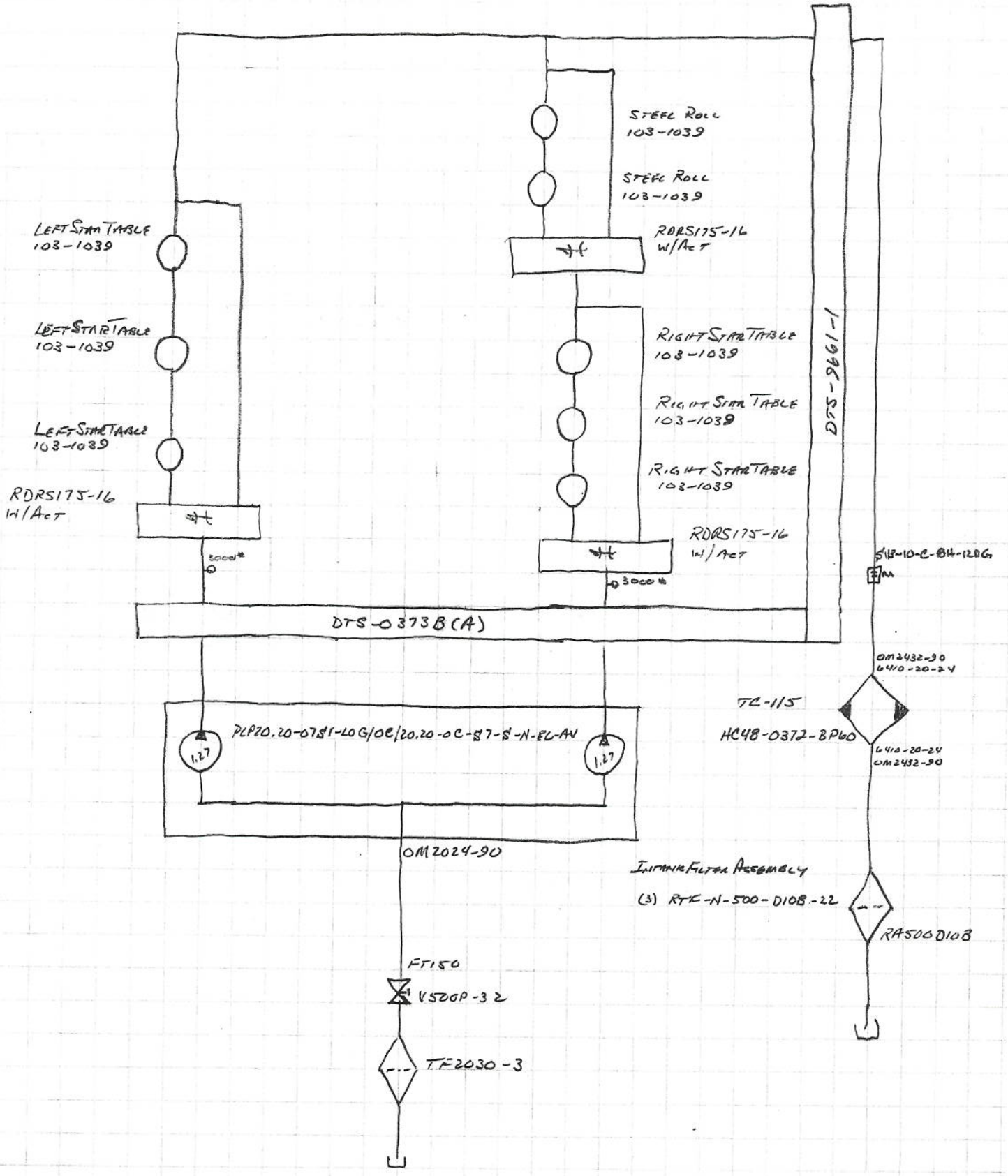
10/24/11
E12052
JOINT NAMES FARMS
4RTH WAR



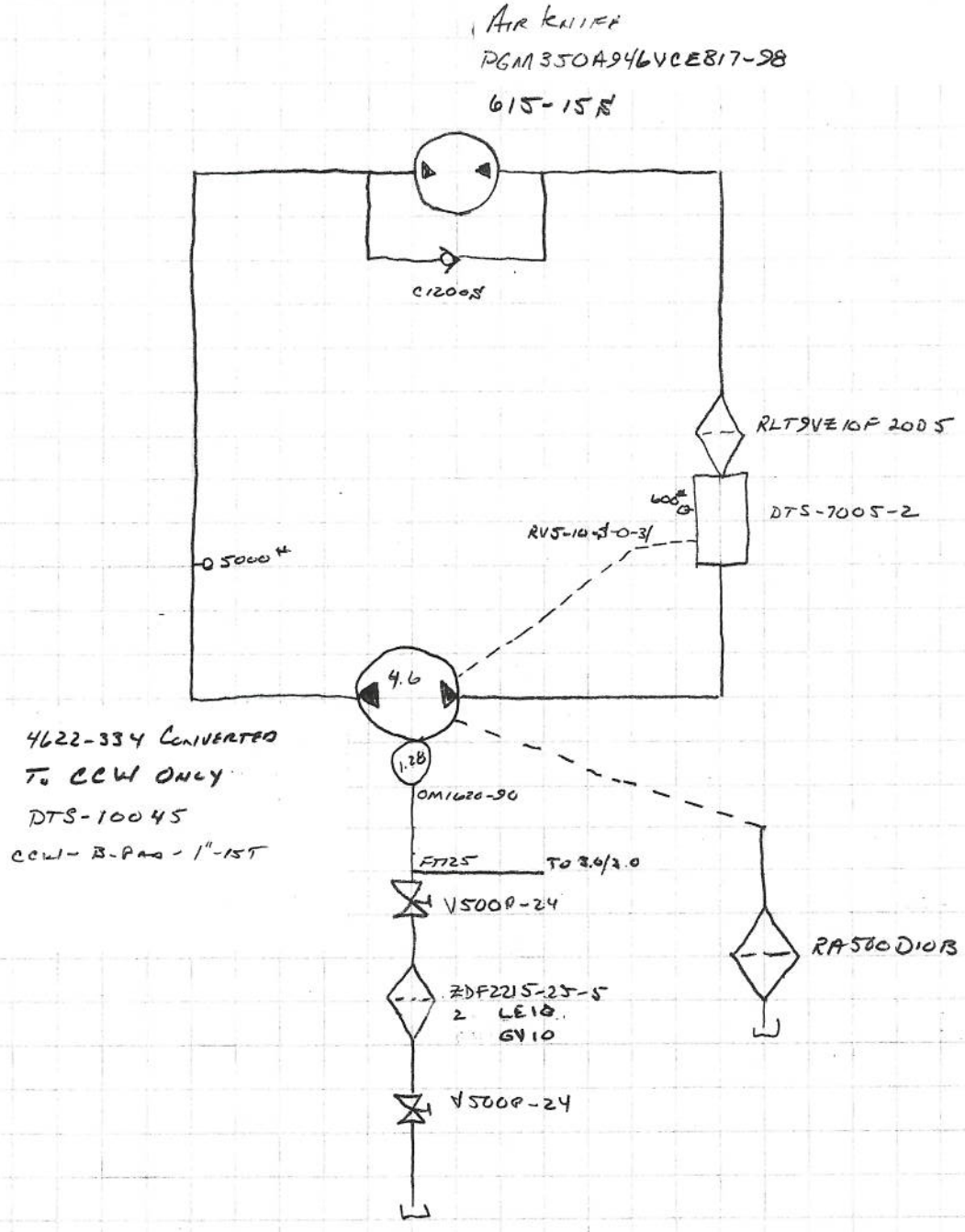
10/24/11
E12052
MEYER
HRDT LINER



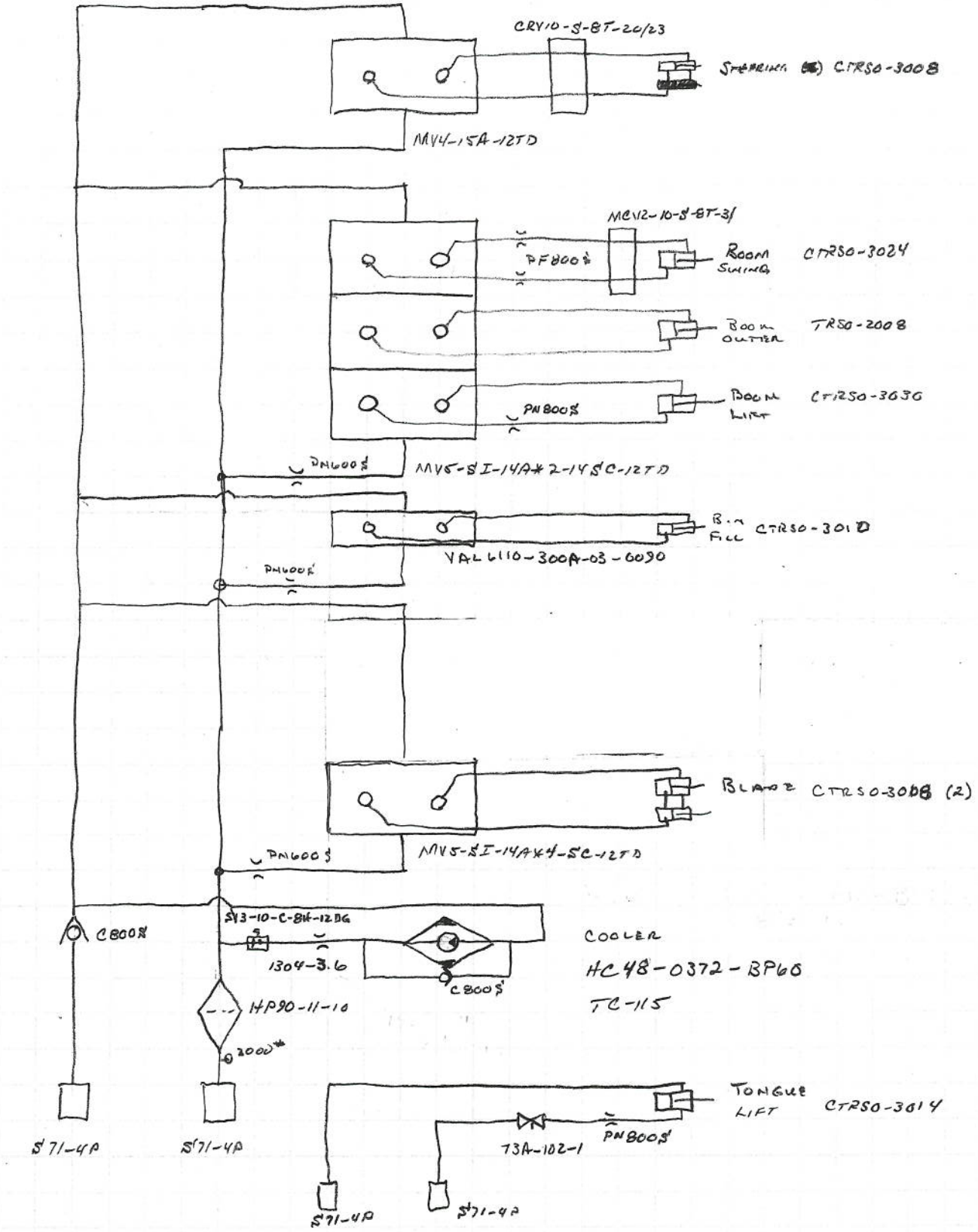
10/24/11
#12052
Meyer
Harthwar



10/27/11
#12052
Meyer
4RPTHWAR



10/24/11
#12052
MEYER
4RATHWAR



EATON | Hydraulics

Electronic Proportional (EP) Control for Heavy Duty Series 2 Piston Pumps

Model 33
Model 39
Model 46
Model 54
Model 64

1/5/07

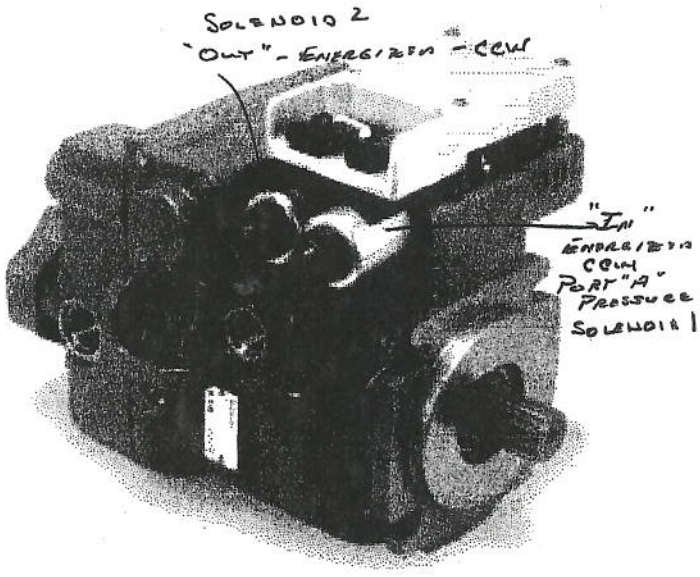
The Electronic Proportional (EP) Control is ideal for a wide range of mobile and industrial applications where electrical control of pump displacement is desired. Eaton's robust design incorporates an electronic module, proportional solenoids and a valve assembly.

Pump displacement is controlled by an input command signal which is converted into proportional current output by the electronic module. The proportional solenoid-actuated valve assembly then converts the current output into proportional pump displacement.

Designed to meet the rigorous duty cycle requirements of off-highway equipment, the EP Control utilizes an electronic module encapsulated in an aluminum enclosure and environmentally-sealed Metri-Pack® connectors to assure maximum protection from the elements. The EP Control is designed to resist Electromagnetic Interference (EMI) which could affect proper operation.

The EP Control offers maximum design and application flexibility with two different types of command input options and compatibility with both 12 and 24 Vdc power supplies. Typical input devices include joysticks (1-6 Vdc) and PLCs (±4-20 mA).

For precise, repeatable operation, closed-loop current control is used to compensate for resistance and voltage changes of the proportional solenoids due to temperature variation. In the event of a power loss or loss of signal, the EP Control automatically returns the pump to neutral. Mechanical feedback of the swashplate position provides closed-loop control to maintain the selected displacement setting over a wide range of operating conditions. Solenoids have integral manual override actuators.



EP Control Features

- Robust, flexible electronic pump control
- Electronic module encapsulated for environmental protection
- Automotive style environmentally sealed Metri-Pack® connectors
- Closed-loop current control compensates for resistance change of the proportional solenoids due to temperature variations
- Return to neutral for loss of power or loss of command input signal
- Mechanical feedback of swashplate position for closed-loop control
- Two choices for command input signal
- Operates from 12 or 24 Vdc power supply
- Ease of installation
- Operating temperature range -40° to +85° C
- On-pump mounting for many installations
- External neutral adjustment
- Manual override capability
- Drive module qualification per SAE J1455, SAE J1113, CISPR 25
- External fuse (customer supplied): 3A

Electronic Module Qualification
(Contact Eaton for Specific Levels)

- *SAE J1455 - Recommended Environmental Practices for Electronic Equipment Design*
  - Humidity/Temperature Extreme Cycling
  - Salt Spray
  - Splash & Immersion
  - Steam Cleaning/High Pressure Wash
  - Vibration
  - Mechanical Shock
  - Temperature Cycling
  - Load Dump Transients
  - Inductive Load Switching Transients
- *SAE J1113 - Electromagnetic Susceptibility Measurement Procedures for Vehicle Components*
  - EMI/EMC - Conducted & Radiated Immunity
- *CISPR 25 - International Electrotechnical Commission "Limits and Methods of Measurement of Radio Disturbance Characteristics for the Protection of Receivers used on Board Vehicles"*
  - EMI/EMC - Conducted & Radiated Emissions

EATON | Hydraulics

Electronic Proportional (EP) Control for Medium Duty 72400 Piston Pumps

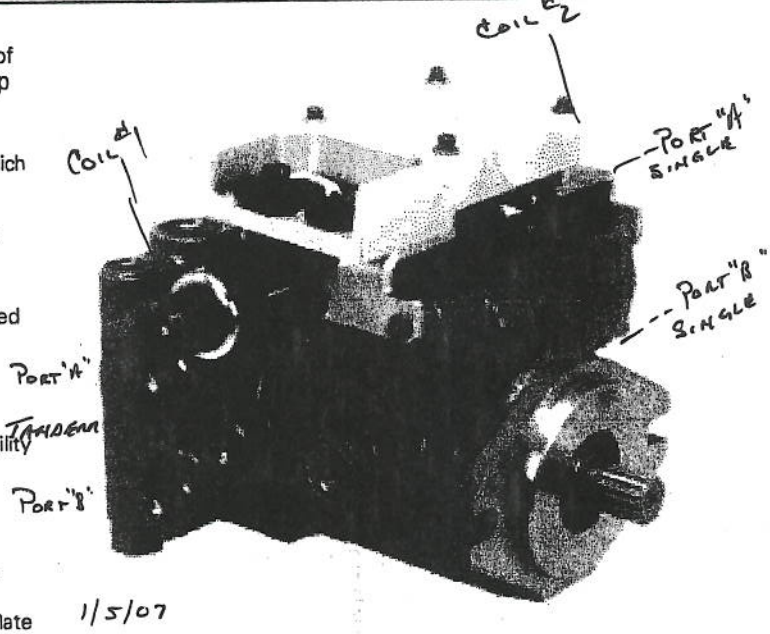
The Electronic Proportional (EP) Control is ideal for a wide range of mobile and industrial applications where electrical control of pump displacement is desired. Eaton's robust design incorporates an electronic module, proportional solenoids and a valve assembly.

Pump displacement is controlled by an input command signal which is converted into proportional current output by the electronic module. The proportional solenoid-actuated valve assembly then converts the current output into proportional pump displacement.

Designed to meet the rigorous duty cycle requirements of off-highway equipment, the EP Control utilizes an electronic module encapsulated in an aluminum enclosure and environmentally-sealed Metri-Pack® connectors to assure maximum protection from the elements. The EP Control is designed to resist Electromagnetic Interference (EMI) which could affect proper operation.

The EP Control offers maximum design and application flexibility with two different types of command input options and compatibility with both 12 and 24 Vdc power supplies. Typical input devices include joysticks (1-6 Vdc) and PLCs (±4-20 mA).

For precise, repeatable operation, closed-loop current control is used to compensate for resistance and voltage changes of the proportional solenoids due to temperature variation. In the event of a power loss or loss of signal, the EP Control automatically returns the pump to neutral. Mechanical feedback of the swashplate position provides closed-loop control to maintain the selected displacement setting over a wide range of operating conditions. Solenoids have integral manual override actuators.



1/5/07
Energized - CCW
#1 Coil Next to Pressure Ports - "In" Pressure Out Port "A"
#2 Coil Away From Ports - "Out"

EP Control Features

- Robust, flexible electronic pump control
- Electronic module encapsulated for environmental protection
- Automotive style environmentally sealed Metri-Pack® connectors
- Closed-loop current control compensates for resistance change of the proportional solenoids due to temperature variations
- Return to neutral for loss of power or loss of command input signal
- Mechanical feedback of swashplate position for closed-loop control
- Two choices for command input signal
- Operates from 12 or 24 Vdc power supply
- Ease of installation
- Operating temperature range -40° to +85° C
- On-pump mounting for many installations
- External neutral adjustment
- Manual override capability
- Drive module qualification per SAE J1455, SAE J1113, CISPR 25
- External fuse (customer supplied): 3A

Electronic Module Qualification
(Contact Eaton for Specific Levels)

- *SAE J1455 - Recommended Environmental Practices for Electronic Equipment Design*
  - Humidity/Temperature Extreme Cycling
  - Salt Spray
  - Splash & Immersion
  - Steam Cleaning/High Pressure Wash
  - Vibration
  - Mechanical Shock
  - Temperature Cycling
  - Load Dump Transients
  - Inductive Load Switching Transients
- *SAE J1113 - Electromagnetic Susceptibility Measurement Procedures for Vehicle Components*
  - EMI/EMC - Conducted & Radiated Immunity
- *CISPR 25 - International Electrotechnical Commission "Limits and Methods of Measurement of Radio Disturbance Characteristics for the Protection of Receivers used on Board Vehicles"*
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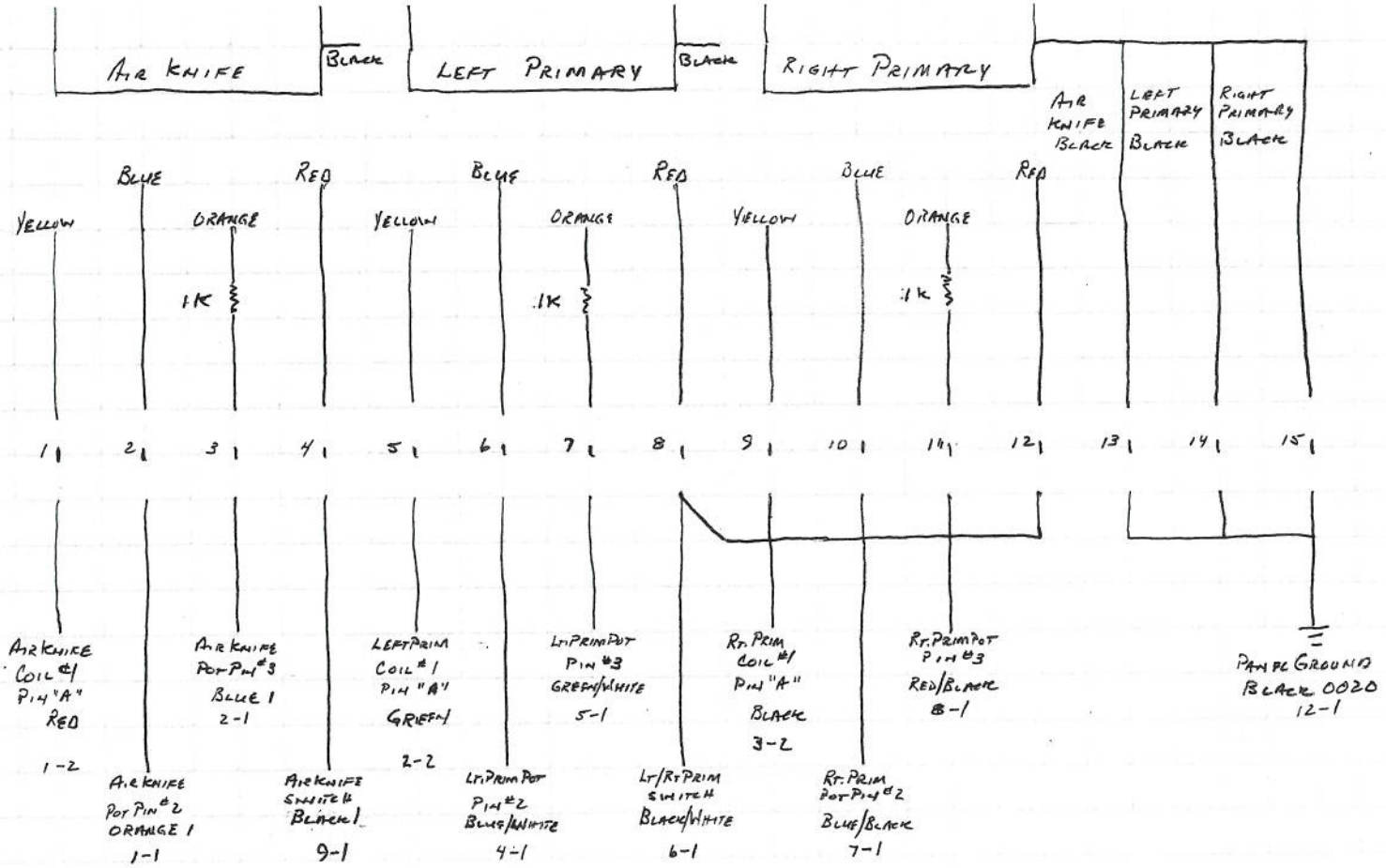
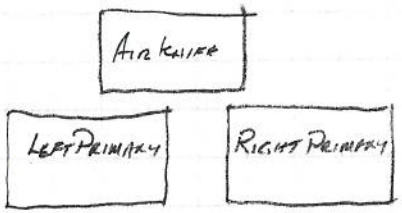
P/N 210222A (2001-0461)



POTENTIOMETER TO KAR-TECH CONTROLER — BELDEN 8468

KARTECH CONTROLER TO PUMP — BELDEN 9418

	FULL	1/2	OFF
YELLOW	7.6	4.0	0.0
BLUE	4.4	2.1	0.0
ORANGE	4.9	4.9	4.9
RED	12	12	0.0



AIR KNIFE SETTING:

VOLTAGE - 6.2V

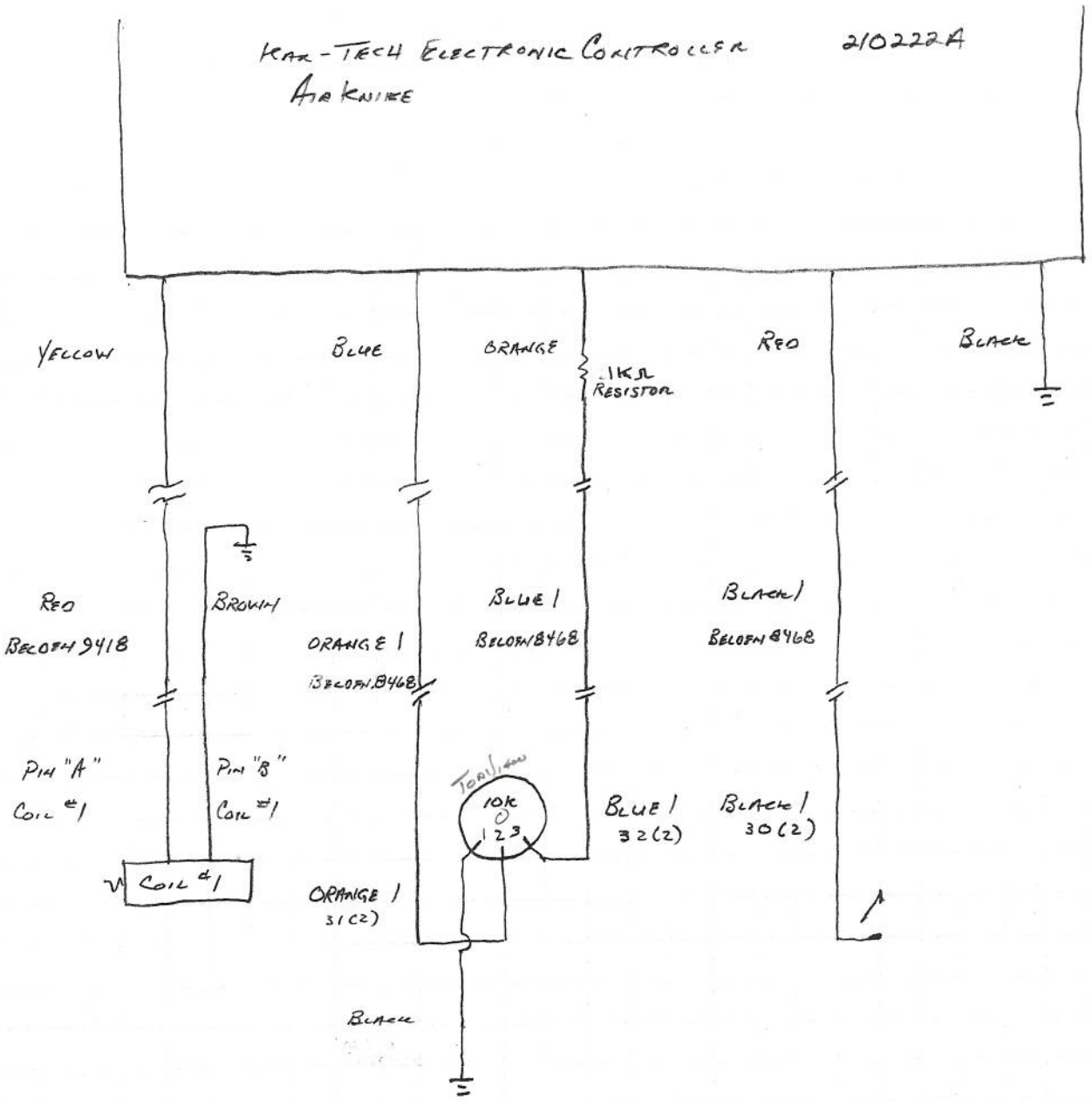
FAN RPM. - 2000 RPM

PUMP PSI - 2400 PSI

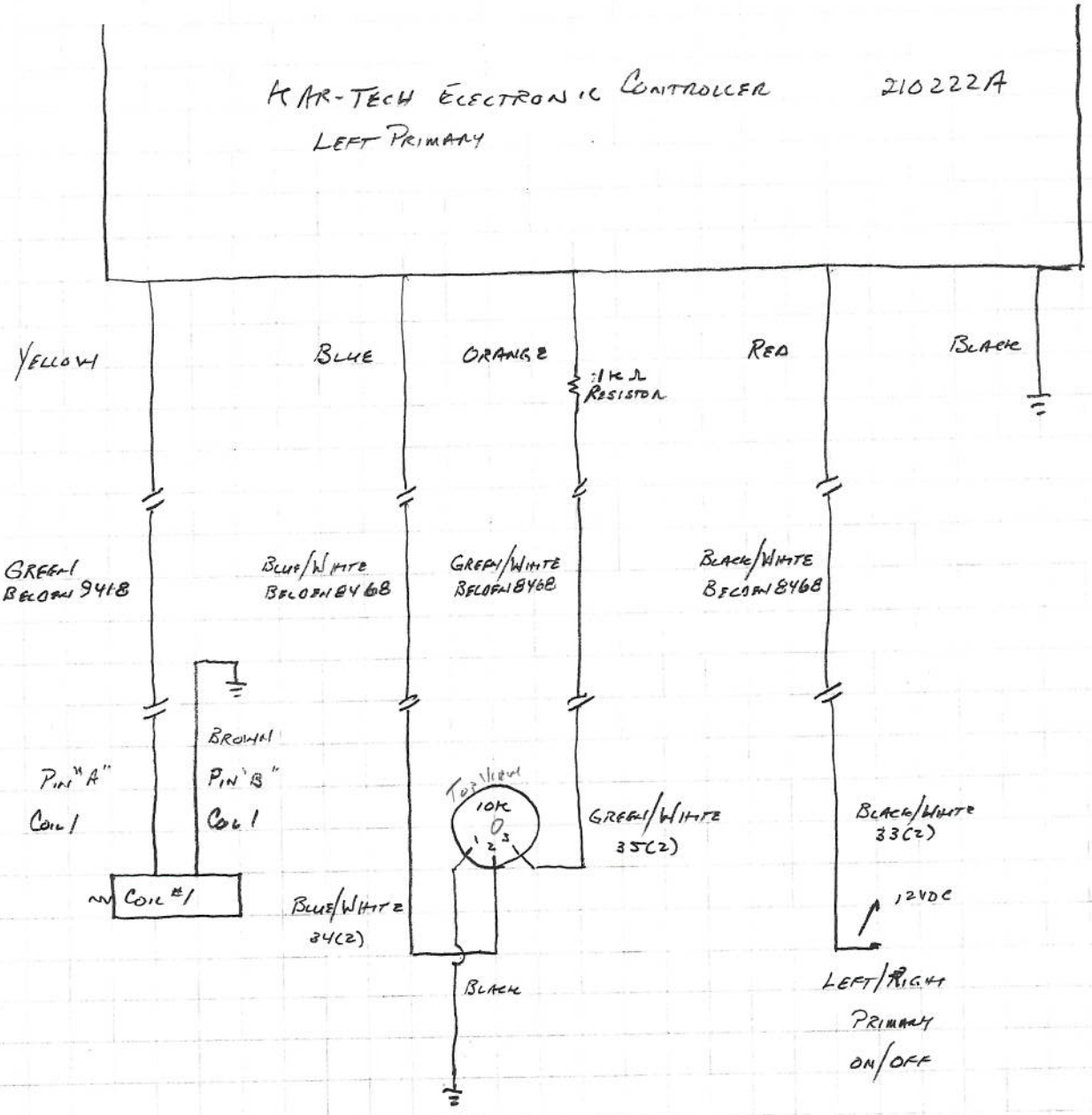
TRACTOR - 1000 RPM PTO

10/12/11

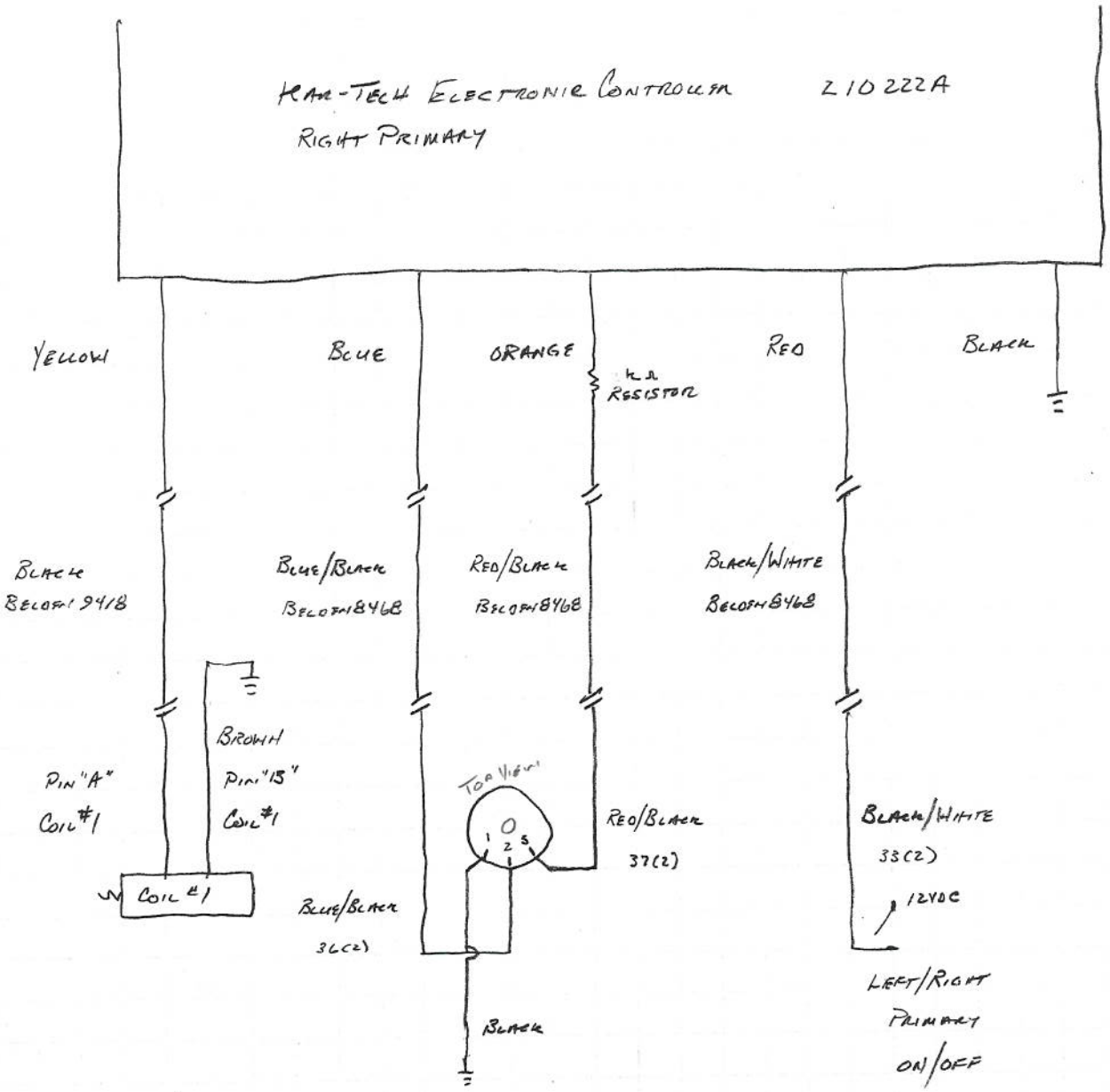
10/12/11


KAR-TECH ELECTRONIC CONTROLLER
AIR KNIFE
210222A
YELLOW
BLUE
ORANGE
1KΩ RESISTOR
RED
BLACK
RED
BELDEN 9418
BROWN
PIN "A"
COIL #1
PIN "B"
COIL #1
COIL #1
ORANGE
BELDEN 8468
BLUE
BELDEN 8468
BLACK
BELDEN 8468
TOP VIEW
10K
1 2 3
ORANGE
31(2)
BLUE
32(2)
BLACK
30(2)
BLACK

10/12/11


KAR-TECH ELECTRONIC CONTROLLER 210222A
LEFT PRIMARY
YELLOW
BLUE
ORANGE
1K Ω RESISTOR
RED
BLACK
GREEN/BROWN 94B
BLUE/WHITE/BROWN 84GB
GREEN/WHITE/BROWN 84GB
BLACK/WHITE/BROWN 84GB
BROWN
PIN "A" COIL
PIN "B" COIL
COIL #1
TOP VIEW
10K
1 2 3
GREEN/WHITE 35(2)
BLACK/WHITE 33(2)
12VDC
BLUE/WHITE 34(2)
BLACK
LEFT/RIGHT PRIMARY ON/OFF

10/12/11

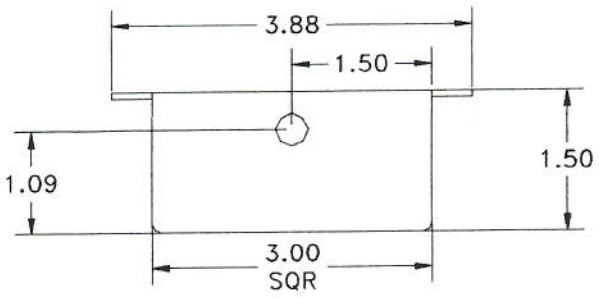

HAM-TECH ELECTRONIC CONTROLLER
Z10222A
RIGHT PRIMARY
YELLOW
BLUE
ORANGE
k Ω
RESISTOR
RED
BLACK
BLACK
BELDEN 9418
BLUE/BLACK
BELDEN 8468
RED/BLACK
BELDEN 8468
BLACK/WHITE
BELDEN 8468
BROWN
PIN "A"
COIL #1
PIN "B"
COIL #1
COIL #1
TOP VIEW
1
2
3
RED/BLACK
37(2)
BLACK/WHITE
38(2)
12VDC
BLUE/BLACK
36(2)
BLACK
LEFT/RIGHT
PRIMARY
ON/OFF

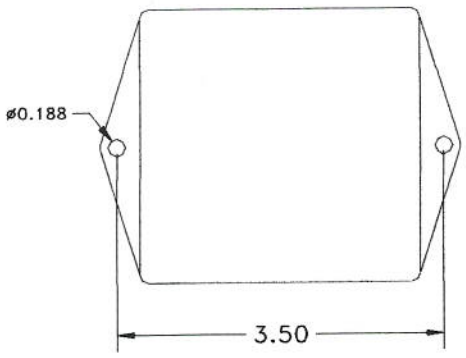
2012 Buick

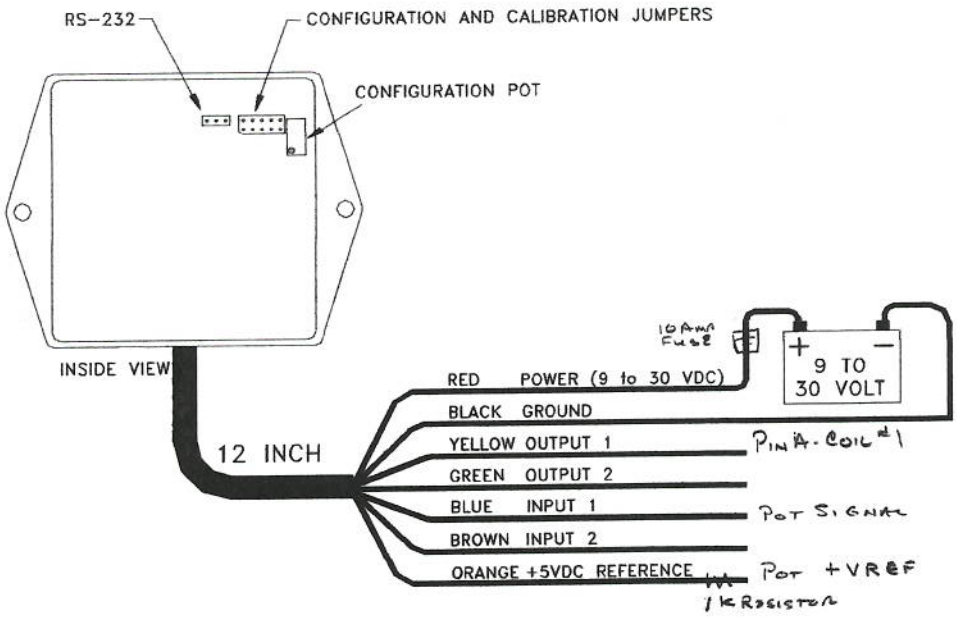
MICRO VALVE DRIVER

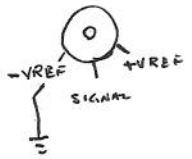
210222A

(2001-0461)









µVD Control Module

Table 1: Configuration Jumper Settings

Configuration Option	Configuration Jumpers to Install
1 Input / 1 Output	Configuration Jumper 1
1 Input / 2 Output	Configuration Jumper 2
2 Input / 2 Output	Configuration Jumpers 1 and 2

INSTALL JUMPER

Table 2: Calibration Jumper Settings

Output Parameter	Calibration Jumpers to Install
Proportional Output 1 Minimum	Calibration Jumper 1
Proportional Output 1 Maximum	Calibration Jumper 2
Proportional Output 1 Ramp Time	Calibration Jumpers 1 and 2
Proportional Output 2 Minimum	Calibration Jumpers 1 and 3
Proportional Output 2 Maximum	Calibration Jumpers 2 and 3
Proportional Output 2 Ramp Time	Calibration Jumpers 1, 2, and 3
Proportional Outputs Frequency	Calibration Jumper 3