

#13061

Lenhard AG

4 RPT H W/65" AH

ADVANCED FARM EQUIPMENT

The following is a brief description of the sequence of operation for the AFE Drive Assist system powered by the tractor hydraulics.

Free-Wheeling Mode

- Drive assist switch is in the off position

- Ball valve on the harvester in the closed position

- Tractor hydraulic supply to the harvester is in the on position, hydraulic flow and pressure to the manifold system

- Harvester can now be towed down the road at full tractor speed.

Power Assist Mode

- Drive assist switch is in the on position

- Ball valve on the harvester is in the off position

- Tractor hydraulic supply to the harvester is in the on position, hydraulic flow and pressure to the manifold system

- Tractor hydraulic flow should be set at max output

- Tractor hydraulic pressure should be set to where the desired assist is met

- System ready to harvest

Free-Wheeling Mode with NO hydraulic power

- Drive assist switch is in the off position

- Ball valve on the harvester in the open position

- Harvester can now be driven around slowly for maneuvering purposes only, NOT meant for roading!

LENNARD AG HARVESTER ENGINE info

NEWER HARVESTER

S/N RG6090 L112785

Oil Filter JOHN DEERE # RE509672 NAPA 1370

Fuel Filter JOHN DEERE # RE525523

INTERCOOLER BOOT J.D # SD3243 90°

J.D # SD3246 Straight

ADVANCED FARM EQUIPMENT

4-13061

BIN LEVELING MD3/XA2

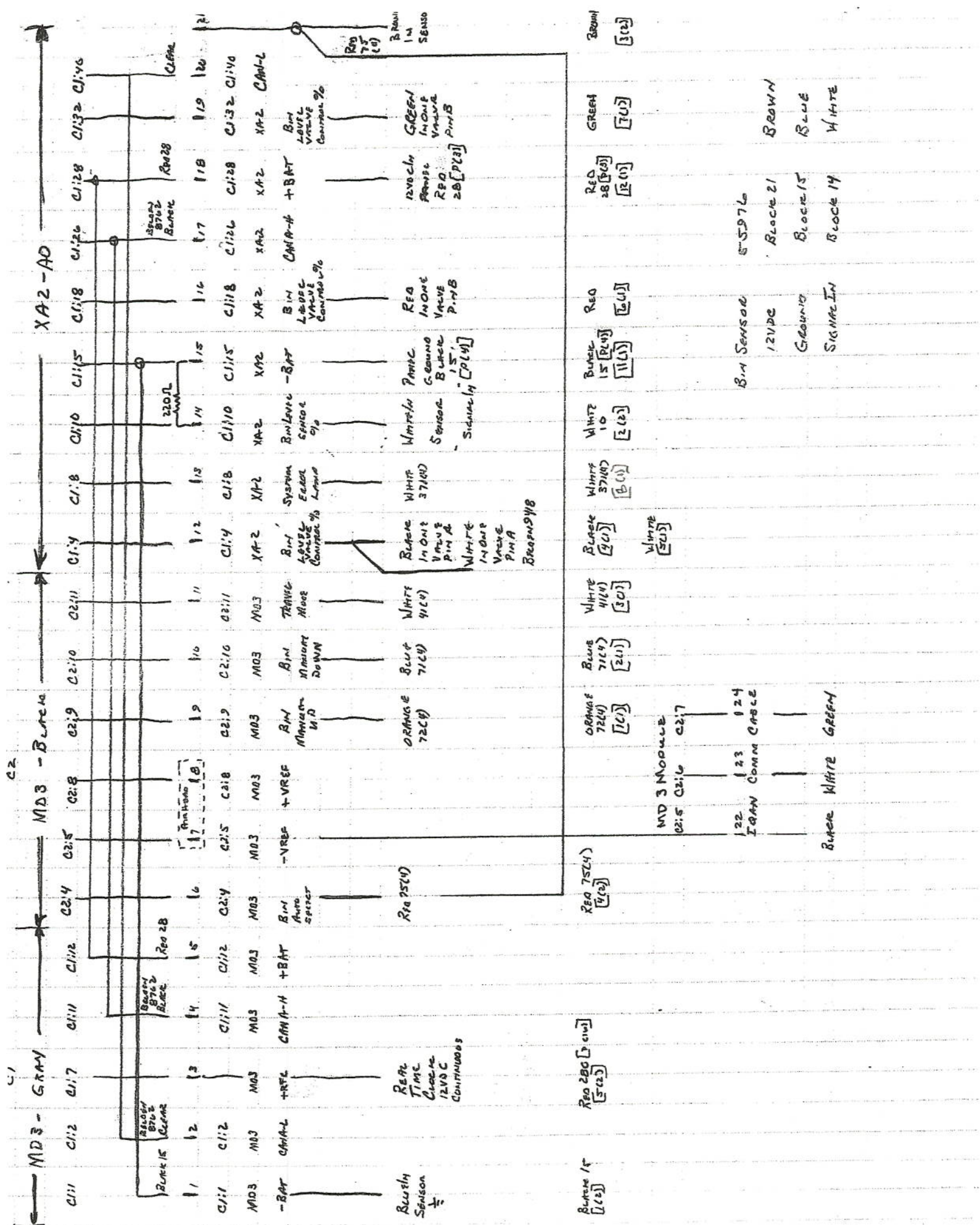
PLUG #1
PIN NO.

JUNCTION
BLOCK NO.

1	ORANGE	72	9	BIN MANUAL UP	C2:9 MD3
2	BLUE	71	10	BIN MANUAL DOWN	C2:10 MD3
3	WHITE	41	11	TRAVEL MODE	C2:11 MD3
4	BLACK (BELDEN 9418)		12	BIN LEVEL CONTROL %	C1:4 XA2
5	WHITE (BELDEN 9418)		12	BIN LEVEL CONTROL %	C1:4 XA2
6	RED (BELDEN 9418)		16	BIN LEVEL CONTROL %	C1:18 XA2
7	GREEN (BELDEN 9418)		19	BIN LEVEL CONTROL %	C1:32 XA2
8	WHITE	371	13	LEVEL WARNING	C1:8 XA2
9					
10					
11	BLACK	15	15	PANEL GROUND	C1:15 XA2
12	RED	28	18	12VDC POWER SUPPLY	C1:28 XA2

PLUG #2
PIN NO.

1	BLUE (SENSOR)		1	BANNER SENSOR GROUND	C1:1 MD3
2	WHITE (SENSOR)		14	BANNER SENSOR "SIGNAL IN"	C1:10 XA2
3	BROWN (SENSOR)		21	12VDC POWER SUPPLY	C2:4 MD3
4	RED	75	21	12VDC POWER SUPPLY	C2:4 MD3
5	RED	280	3	REAL TIME CLOCK POWER SUPPLY	C1:7 MD3
6					
7					
8					
9					
10					
11					
12					



ADVANCED FARM EQUIPMENT

BIN LEVELING

MD3 (GRAY PLUG) C1

C1:1	- BATT	GROUND	BLACK TO XA2-AO C 1:15
C1:2	CAN-A-L		CLEAR TO XA2-AO MODULE C 1:40
C1:7	+ RTC	12VDC CONTINUOUS	PANEL RED 280
C1:11	CAN-A-H		BLACK TO XA2-AO MODULE C1:26
C1:12	+ BATT	POWER SUPPLY	RED TO XA2-AO MODULE C1:28

MD3 (BLACK PLUG) C2

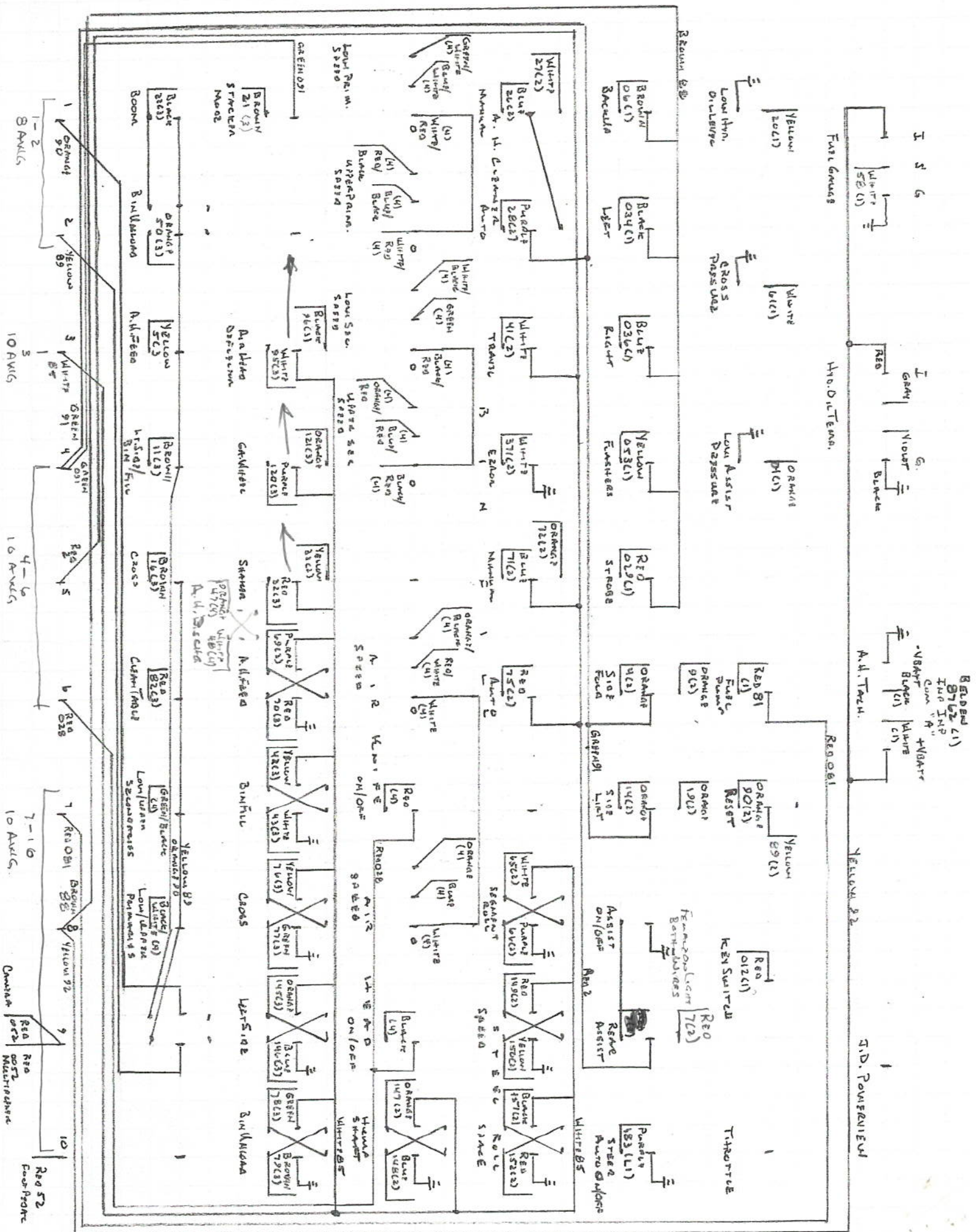
C2:4	DIN-D	BIN AUTO SELECT MODE	RED 75
C2:5	- VREF	COMM CABLE	BLACK
C2:6	USB-D-	COMM CABLE	WHITE
C2:7	USB-D+	COMM CABLE	GREEN
C2:8	+ VREF		
C2:9	DIN-E	BIN MANUAL UP	ORANGE 72
C2:10	DIN-F	BIN MAUAL DOWN	BLUE 71
C2:11	DIN-G	TRAVEL MODE INPUT	WHITE 41

XA2-AO

C1:1	ADDR-H	TERMINATION RESISTOR	
C1:4	PWM-C	BIN LEVEL CONTROL%	BOTH VALVES BLACK / WHITE
C1:8	DOUT-A	SYSTEM ERROR LAMP	WHITE 371
C1:10	VIN-A	BIN LEVEL SENSOR %	WHITE IN SENSOR
C1:15	- BATT	GROUND	BLACK 15 TO PANEL
C1:18	PWM-C RET +	BIN LEVEL CONTROL %	RED TO ONE VALVE COIL
C1:26	CAN-H		
C1:28	+ BATT	POWER SUPPLY	PANEL RED 28
C1:32	PWM-C RET-	BIN LEVEL CONTROL %	GREEN TO ONE VALVE COIL
C1:40	CAN-L		
C1:14	ADDR-L	TERMINATION RESISTOR	

BIN SENSOR

	BLUE	GROUND	
	WHITE	SIGNAL	
	BROWN	12VDC POWER SUPPLY	



FUEL GAUGE
O

HYD. OIL TEMP.
O

A. H. TACH.
O

J.D. ENGINE
O
POWerview

W	A	R	N	I	N	G
---	---	---	---	---	---	---

O O O

LOW HYD. OIL LEVEL CROSS PRESS HIGH LOW ASSIST PRESSURE

O
FUEL PUMP

O
RESET

O
KEY SWITCH

O
THROTTLE

W O R K L I G H T S	W A R N I N G L I G H T S	S I D E C O N V B Y P A S S	R E A R W H E E L A S S I S T	R E A R S T E E R
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O O O O O O O O O

BACK UP LEFT RIGHT FLASHERS STROBE FOLD LIFT ON WHEN LIT OFF AUTO CENTER WHEN LIT

A I R H E A D C L E A N E R	B I N F I L L
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O O O O O O

MANUAL MANUAL TRAVEL MODE ERROR MANUAL OFF AUTOMATIC

C L E A N I N G T A B L E

SEGMENT ROLLS STEEL ROLL

O O O

SPEED SPEED SPACE

S P E E D C O N T R O L S

PRIMARY SECONDARY

O O O O

LOWER UPPER LOWER UPPER

A I R K I N F E	A I R H E A D
-----------------	---------------

O O O O

SPEED OFF SPEED OFF HUMP SHAFT

O O O O O

STACKER MODE AIR HEAD DEFLECTOR UP DOWN GA. WHEEL UP SHAKER

S P E E D C O N T R O L S

O O O O O

A.H. FEED BIN FILL CROSS LEFT SIDE BIN UNLOAD

C O N V E Y O R C I R C U I T S

O O O O O O O O

BOOM BIN UNLOAD A.H. FEED LEFT SIDE BIN FILL CROSS CLEANING TABLE LOW / UPPER SECONDARY LOW / UPPER PRIMARY MASTER

ADVANCED FARM EQUIPMENT

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4RPTH65LAH

2/6/13

30A 13	20A 12	20 11	30A 10	30A 9	20A 8	30A 7	30A 6	30A 5	30A 4	30A 3	30A 2	30A 1
AUX CAB	STROBE	HAZARD	ENG. FAN	TIME	MD3/XA2	TC115	BACK UP	RT. REAR	RT. FRONT	LT. REAR	LT. FRONT	LOW ASSIST
PANEL	LIGHT	RELAY	REVERSE	DELAY	[RED 28	[RED	LIGHTS	LIGHTS	LIGHTS	LIGHTS	LIGHTS	PRESSURE
[ORANGE	RELAY	[YELLOW	[RED	RELAY			RELAY	RELAY	RELAY	RELAY	RELAY	[YELLOW 10
[144	[RED		[2	[YELLOW			[BROWN	[BLUE	[BLUE	[BLACK		[CROSS PRESS
AUX CAB			AUX CAB									[SWITCH
RADIO			CYBER TECH									[BLACK 60
[RED			[ORANGE									[HYD. LEVEL
[01			[143									[SWITCH

77000

I I I

12V DC

RESET CB 13

RELAY RED 8 AWG

TERMINAL 6 [TO CONTROL PANEL]

[IN TRACTOR

HAZ. STAT

[YELLOW 53

[YELLOW 53

30A

14

HARV. CAB

[A/C

[RED #1 - 12 AWG

[HEATER

[RED #2 - 12 AWG

77000

I I I

12V DC

RED 012

CB 1-5

RTC

CB-14

[RED 280

RELAYS

LT. FRONT

WORK LIGHTS

85 GRD.

86 BLACK 034

87 CB2

30 BLACK 340

LT. REAR

WORK LIGHTS

85 GRD.

86 BLACK 034

87 CB3

30 BLACK 34

HAZARD LIGHTS

85 GRD.

86 YELLOW 053

87 CB11

30 YELLOW 53

RT. FRONT

WORK LIGHTS

85 GRD.

86 BLUE 036

87 CB4

30 BLUE 360

STROBE LIGHT

85 GRD.

86 RED 029

87 CB12

30 RED 29

RT. REAR

WORK LIGHTS

85 GRD.

86 BLUE 036

87 CB5

30 BLUE 36

COOLER

85 GRD.

86 RED 0023 (TC115)

87 CB7

30 RED 23 (SV3-10-C)

A.H. CLEAN. TIMER

8 - BLUE 26 4 (2)

9 - WHITE 27 5 (2)

10/11 - PURPLE 28 6 (2)

6/2 - GROUND

GROUND WIRES

RELAY

TIMER

MD3 XA2 BLACK 15

BLACK 1 [TRACTOR PANEL]

BLACK 2 [TRACTOR PANEL]

AUX CAB BLACK 20

AUX CAB BLACK 020

KAR-TECH BLACK 0020

BLACK #1 12 AWG CAB A/C

BLACK #2 12 AWG CAB HEATER

BLACK 200 AUX CAB RADIO

BACK UP

WORK LIGHTS

85 GRD.

86 BROWN 06

87 CB6

30 BROWN 6

85 GRD.

86

87

30

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PIN #	DEUTSCH 12 PIN PLUG		HARVESTER CAB / TRACTOR PANEL JUNCTION PANEL	
1	GREEN	78	TRACTOR PANEL BIN UNLOAD RDRS112-30 SWITCH	
2	GREEN	78	HARVESTER PANEL BIN UNLOAD RDRS112-30 SWITCH	
3	GREEN	78	BIN UNLOAD RDRS112-30 ACTUATOR	
4	BROWN	79	TRACTOR PANEL BIN UNLOAD RDRS112-30 SWITCH	
5	BROWN	79	HARVESTER PANEL BIN UNLOAD RDRS112-30 SWITCH	
6	BROWN	79	BIN UNLOAD RDRS112-30 ACTUATOR	
7	BROWN	21	TRACTOR PANEL STACKER MODE SWITCH	
8	BROWN	21	HARVESTER PANEL STACKER MODE SWITCH	
9	BROWN	21	STACKER MODE SV1-16-C (3) SOLENOIDS	
10	BLACK	22	TRACTOR BOOM SWITCH	
11	BLACK	22	HARVESTER PANEL BOOM SWITCH	
12	BLACK	22	BOOM DTS-0373B SOLENOID	

PIN #	DEUTSCH 4 PIN PLUG		HARVESTER CAB / TRACTOR PANEL JUNCTION PANEL	
1	ORANGE	50	TRACTOR PANEL BIN UNLOAD SWITCH	
2	ORANGE	50	HARVESTER PANEL BIN UNLOAD SWITCH	
3	ORANGE	50	BIN UNLOAD SV3-16-0 SOLENOID	
4				

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HARVESTER CAB

PIN #	PLUG #1			
1	BLACK	108	STONE BOX MV5 VALVE UP	BLACK
2	RED	109	STONE BOX MV5 VALVE DOWN	RED
3	ORANGE	110	BOOM OUTER MV5 VALVE UP	ORANGE
4	BLUE	111	BOOM OUTER MV5 VALVE DOWN	BLUE
5	WHITE	112	BOOM LIFT MV5 VALVE UP	YELLOW
6	BROWN	113	BOOM LIFT MV5 VALVE DOWN	BROWN
7	PURPLE	114	BOOM SWING MV5 VALVE OUT	VIOLET
8	GREEN	115	BOOM SWING MV5 VALVE IN	GRAY
9	YELLOW	116	COULTER MV5 VALVE UP	WHITE/BROWN
10	BROWN	117	COULTER MV5 VALVE DOWN	WHITE/BLACK
11	RED	118	BLADE MV5 VALVE UP	WHITE/RED
12	BLACK	119	BLADE MV5 VALVE DOWN	WHITE/YELLOW
13	ORANGE	143	CB10 TO CYBER TECH HANDLE	(P) WHITE
14	BLACK	020	CYBER TECH HANDLE TO PANEL GROUND	(P) GREEN
15				
16				

PIN #	PLUG #2			
1	BLACK	22	BIN SWITCH TO DTS-0373-B SOLENOID	
2	ORANGE	50	BIN UNLOAD SWITCH TO SV3-16-0 SOLENOID	
3	GREEN	78	BIN UNLOAD RDRS112-30 ACTUATOR	
4	BROWN	79	BIN UNLOAD RDRS112-30 ACTUATOR	
5	BROWN	21	STACKER MODE SWITCH TO (3) SV1-16-C SOLENOIDS	
6	BLACK	804	E-STOP N.C. TERMINAL	
7	BLACK	810	E-STOP N.C. TERMINAL	
8	ORANGE	144	CB13 TO SWITCHES	(P)
9	BLACK	20	BIN UNLOAD SWITCH GROUND TO PANEL	(P)
10				
11				
12				
13				
14				
15				
16				

PIN #	PLUG #3		HARVESTER CAB HEATER / A/C	
1 *	RED	1	CB 14 +VBATT TO HARVESTER CAB A/C UNIT	12 AWG
2	WHITE	24	HARVESTER CAB A/C UNIT COMPRESSOR CLUTCH POWER SUPPLY	
3				
4				
5				
6				
7 *	BLACK	#1	HARVESTER CAB A/C UNIT -VBATT	12 AWG
8				
9				
10 *	RED	#2	CB 14 +VBATT TO HARVESTER CAB HEATER	12 AWG
11				
12				
13	BLACK	200	AUX. CAB RADIO GROUND	
14	RED	01	AUX. CAB RADIO +VBATT	
15 *	BLACK	#2	HARVESTER CAB HEATER -VBATT	12 AWG
16				

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PLUG #1

SMALL 16 PIN PLUG

FOOT PEDAL PLUG

PIN #	PANEL LEFT SIDE		FOOT PEDAL PLUG
1	RED	52	CB 10 + VBATT TO FOOT PLATE
2	PURPLE	83	AUTO CENTER SWITCH TO RELAY
3	PURPLE	183	AUTO CENTER SWITCH TO STATUS LAMP
4	BLUE	55	LEFT STEER PEDAL TO RELAY
5	ORANGE	56	RIGHT STEER PEDAL TO RELAY
6	BROWN	153	LOWER PRIMARY REVERSE
7	ORANGE	154	UPPER PRIMARY REVERSE
8	GREEN	155	UPPERSECONDARY REVERSE
9	YELLOW	156	LOWER PRIMARY FORWARD
10	RED	157	UPPER PRIMARY FORWARD
11	BLACK	158	LOWER SECONDARY REVERSE
12	RED	052	CB 9 TO CAMERA +VBATT
13	BLACK		CAMERA -VBATT
14	RED	0052	CB 9 TO CAMERA MULTIPLEXER +VBATT
15	BLACK		CAMERA MUTILEXER -VBATT
16			
	RED	120	STEERING BOX TO MV4 VALVE
	YELLOW	121	STEERING BOX TO MV4 VALVE

PLUG #2

SMALL 16 PIN PLUG

PIN #	PANEL LEFT SIDE		
1	BLACK		STONE BOX MV5 VALVE UP
2	RED		STONE BOX MV5 VALVE DOWN
3	ORANGE		BOOM OUTER MV5 VALVE UP
4	BLUE		BOOM OUTER MV5 VALVE DOWN
5	YELLOW		BOOM LIFT MV5 VALVE UP
6	BROWN		BOOM LIFT MV5 VALVE DOWN
7	VIOLET		BOOM SWING MV5 VALVE OUT
8	GRAY		BOOM SWING MV5 VALVE IN
9	WHITE / BROWN		COULTER MV5 VALVE UP
10	WHITE / BLACK		COULTER MV5 VALVE DOWN
11	WHITE / RED		BLADE MV5 VALVE UP
12	WHITE YELLOW		BLADE MV5 VALVE DOWN
13	WHITE		CB 10 +VBATT TO CYBER TECH HANDLE
14	GREEN		PANEL GROUND TO CYBER TECH HANDLE
15			
16			

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FRAME DISTRIBUTION PANEL

BLACK	340	LEFT FRONT WORK LIGHTS - LEFT BLADE / AIR HEAD / A.H. DISCHARGE
BLACK	34	LEFT REAR WORK LIGHTS - SIDE / LEFT SECONDARY / LEFT CLEAN. TABLE
BLUE	360	RIGHT FRONT WORK LIGHTS - BLADE / SORT / BOOM (2)
BLUE	36	RIGHT REAR WORK LIGHTS - CROSS / AH FEED
BROWN	6	BACK UP LIGHTS
YELLOW	53	FLASHERS
BLUE	26	AIR HEAD CLEANER VALVE
WHITE	27	AIR HEAD CLEANER VALVE
RED	23	CB7 TO COOLER TC115 SWITCH TO RELAY
BLACK	60	CB1 TO CROSS PRESSURE SWITCH - "COM"
YELLOW	25	CB1 TO HYDRAULIC OIL LEVEL SENSOR
YELLOW	10	CB1 TO A. H. FILTER PIN #2
RED	29	STROBE LIGHTS
RED	23	COOLER RELAY TO COOLER SV3-10-C SOLENOID

DTS-0373B

1 12VDC
2 GRND.

TC115 TEMPERATURE SWITCH

12VDC RED 028
N.O. RED 28

AIR HEAD RETURN FILTER

P/N MS10LC-40

1 N.C.
2 COM YELLOW 10
3 N.O. YELLOW 15

4RPTH65LAH**PLUG #1 TRACTOR CAB CONTROL HARNESS**

PIN #		MV5 JUNCTION BOX		
1	BLACK	108	STONE BOX MV5 VALVE UP	BLACK
2	RED	109	STONE BOX MV5 VALVE DOWN	RED
3	ORANGE	110	BOOM OUTER MV5 VALVE UP	ORANGE
4	BLUE	111	BOOM OUTER MV5 VALVE DOWN	BLUE
5	WHITE	112	BOOM LIFT MV5 VALVE UP	BLACK / WHITE
6	BROWN	113	BOOM LIFT MV5 VALVE DOWN	RED / WHITE
7	PURPLE	114	BOOM SWING MV5 VALVE OUT	BLUE / WHITE
8	GREEN	115	BOOM SWING MV5 VALVE IN	GREEN / WHITE
9	YELLOW	116	COULTER MV5 VALVE UP	ORANGE / BLACK
10	BROWN	117	COULTER MV5 VALVE DOWN	BLUE / BLACK
11	RED	118	BLADE MV5 VALVE UP	RED / BLACK
12	BLACK	119	BLADE MV5 VALVE DOWN	GREEN / BLACK

PLUG #2 HARVERSTER CAB CONTROL HARNESS

PIN #		MV5 JUNCTION BOX		
1	BLACK	108	STONE BOX MV5 VALVE UP	BLACK
2	RED	109	STONE BOX MV5 VALVE DOWN	RED
3	ORANGE	110	BOOM OUTER MV5 VALVE UP	ORANGE
4	BLUE	111	BOOM OUTER MV5 VALVE DOWN	BLUE
5	WHITE	112	BOOM LIFT MV5 VALVE UP	BLACK / WHITE
6	BROWN	113	BOOM LIFT MV5 VALVE DOWN	RED / WHITE
7	PURPLE	114	BOOM SWING MV5 VALVE OUT	BLUE / WHITE
8	GREEN	115	BOOM SWING MV5 VALVE IN	GREEN / WHITE
9	YELLOW	116	COULTER MV5 VALVE UP	ORANGE / BLACK
10	BROWN	117	COULTER MV5 VALVE DOWN	BLUE / BLACK
11	RED	118	BLADE MV5 VALVE UP	RED / BLACK
12	BLACK	119	BLADE MV5 VALVE DOWN	GREEN / BLACK

PLUG #3 CONTROL HARNESS TO MV5 INDIVIDUAL VALVES

PIN #		MV5 JUNCTION BOX		
1	BLACK	108	STONE BOX MV5 VALVE UP	BLACK
2	RED	109	STONE BOX MV5 VALVE DOWN	RED
3	ORANGE	110	BOOM OUTER MV5 VALVE UP	ORANGE
4	BLUE	111	BOOM OUTER MV5 VALVE DOWN	BLUE
5	WHITE	112	BOOM LIFT MV5 VALVE UP	BLACK / WHITE
6	BROWN	113	BOOM LIFT MV5 VALVE DOWN	RED / WHITE
7	PURPLE	114	BOOM SWING MV5 VALVE OUT	BLUE / WHITE
8	GREEN	115	BOOM SWING MV5 VALVE IN	GREEN / WHITE
9	YELLOW	116	COULTER MV5 VALVE UP	ORANGE / BLACK
10	BROWN	117	COULTER MV5 VALVE DOWN	BLUE / BLACK
11	RED	118	BLADE MV5 VALVE UP	RED / BLACK
12	BLACK	119	BLADE MV5 VALVE DOWN	GREEN / BLACK

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PLUG #4 24 PIN PLUG

PIN #	PANEL RIGHT SIDE		
1	WHITE / RED	LOWER / UPPER PRIMARY POTENTIOMETER TERMINAL #1 TO JUNCTION 27	BELDEN 8619
2	BLUE / WHITE	LOWER PRIMARY POTENTIOMETER TERMINAL #2 TO JUNCTION 6	BELDEN 8619
3	GREEN / WHITE	LOWER PRIMARY POTENTIOMETER TERMINAL #3 TP JUNCTION 7	BELDEN 8619
4	BLUE / BLACK	UPPER PRIMARY POTENTIOMETER TERMINAL #2 TO JUNCTION 10	BELDEN 8619
5	RED / BLACK	UPPER PRIMARY POTENTIOMETER TERMINAL #3 TO JUNCTION 11	BELDEN 8619
6	BLACK / RED	LOWER / UPPER SECONDARY POTENTIOMETER TERMINAL #1 TO JUNCTION 28	BELDEN 8619
7	GREEN	LOWER SECONDARY POTENTIOMETER TERMINAL #2 TO JUNCTION 14	BELDEN 8619
8	WHITE / BLACK	LOWER SECONDARY POTENTIOMETER TERMINAL #3 TO JUNCTION 15	BELDEN 8619
9	BLUE / RED	UPPER SECONDARY POTENTIOMETER TERMINAL #2 TO JUNCTION 18	BELDEN 8619
10	ORANGE / RED	UPPER SECONDARY POTENTIOMETER TERMINAL #3 TO JUNCTION 19	BELDEN 8619
11	WHITE	AIR KNIFE / AIR HEAD POTENTIOMETER TERMINAL #1 TO JUNCTION 30	BELDEN 8619
12	RED / WHITE	AIR KNIFE POTENTIOMETER TERMINAL #2 TO JUNCTION 22	BELDEN 8619
13	ORANGE / BLACK	AIR KNIFE POTENTIOMETER TERMINAL #3 TO JUNCTION 23	BELDEN 8619
14	RED	AIR KNIFE SWITCH - ON / OFF TO JUNCTION 24	BELDEN 8619
15	BLUE	AIR HEAD POTENTIOMETER TERMINAL #2 TO JUNCTION 2	BELDEN 8619
16	ORANGE	AIR HEAD POTENTIOMETER TERMINAL #3 TO JUNCTION 3	BELDEN 8619
17	BLACK	AIR HEAD SWITCH - ON / OFF TO JUNCTION 4	BELDEN 8619
18	GREEN / BLACK	LOWER / UPPER SECONDARY SWITCH - ON / OFF TO JUNCTION 16 / 20	BELDEN 8619
19	BLACK / WHITE	LOWER / UPPER PRIMARY SWITCH - ON / OFF TO JUNCTIONS 8 / 12	BELDEN 8619
20			
21	GRAY	HYDRAULIC OIL TANK TEMP. SENDER - GRAY - PIN "A" TO CAB	YELLOW 752
22	VIOLET	HYDRAULIC OIL TANK TEMP. SENDER - VIOLET - PIN "B" TO CAB	YELLOW 753
23			
24	RED	2	P

CONTROLLER POWER SUPPLY PIN " B " TO BLOCK GROUND
ENERGIZED COIL

AIR HEAD PUMP: NEXT TO FLANGE - "IN" - PRESS. OUT PORT "A"
AWAY FROM FLANGE - "OUT"

PRIM / SEC PUMP: NEXT TO PRESS. PORT: "IN" - PRESS. OUT PORT "A"
AWAY FROM PRESS. PORTS: - "OUT"

PLUG #5 3 PIN PLUG

PIN #	PANEL RIGHT SIDE		
1	RED	1 +VBATT FROM DISTRIBUTION PANEL	10 AWG
2	RED	2 +VBATT FROM DISTRIBUTION PANEL	10 AWG
3	RED	3 +VBATT FROM DISTRIBUTION PANEL	10 AWG

PLUG #6

PIN #	PANEL RIGHT SIDE		
1	RED	+VBATT FROM DISTRIBUTION PANEL	8 AWG
2	BLACK	1 -VBATT FROM DISTRIBUTION PANEL	8 AWG
3	BLACK	2 -VBATT FROM DISTRIBUTION PANEL	8 AWG

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PLUG #1

PIN #		KAR-TECH ENCLOSURE	BELDEN WIRE
1	BLUE	AIR HEAD CONTROLLER COMMAND SIGNAL JUNCTION "2"	BELDEN 8619
2	ORANGE	AIR HEAD CONTROLLER COMMAND SIGNAL JUNCTION "3"	BELDEN 8619
3	BLACK	AIR HEAD CONTROLLER POWER SUPPLY JUNCTION "4"	BELDEN 8619
4	BLUE/WHITE	LOWER PRIMARY CONTROLLER COMMAND SIGNAL JUNCTION " 6 "	BELDEN 8619
5	GREEN/WHITE	LOWER PRIMARY CONTROLLER COMMAND SIGNAL JUNCTION " 7 "	BELDEN 8619
6	BLACK/WHITE	LOWER / UPPER PRIMARY CONTROLLER POWER SUPPLY JUNCTION "8 / 12"	BELDEN 8619
7	BLUE/BLACK	UPPER PRIMARY CONTROLLER COMMAND SIGNAL JUNCTION "10"	BELDEN 8619
8	RED/BLACK	UPPER PRIMARY CONTROLLER COMMAND SIGNAL JUNCTION "11"	BELDEN 8619
9	GREEN	LOWER SECONDARY CONTROLLER COMMAND SIGNAL JUNCTION "14"	BELDEN 8619
10	WHITE / BLACK	LOWER SECONDARY CONTROLLER COMMAND SIGNAL JUNCTION "15"	BELDEN 8619
11	GREEN / BLACK	UPPER / LOWER SECONDARY CONTROLLER POWER SUPPLY JUNC. "16 / 20"	BELDEN 8619
12	BLACK	0020 KAR-TECH GROUND TO PANEL GROUND	P

PLUG #2

PIN #		KAR-TECH ENCLOSURE	
1	RED / WHITE	AIR KNIFE CONTROLLER COMMAND SIGNAL JUNCTION "22"	BELDEN 8619
2	ORANGE / BLACK	AIR KNIFE CONTROLLER COMMAND SIGNAL JUNCTION "23"	BELDEN 8619
3	RED	AIR KNIFE CONTROLLER POWER SUPPLY JUNCTION "24"	BELDEN 8619
4	BLUE / RED	UPPER SECONDARY COMMAND SIGNAL JUNCTION "18"	BELDEN 8619
5	ORANGE / RED	UPPER SECONDARY COMMAND SIGNAL JUNCTION "19"	BELDEN 8619
6	WHITE	AIR KNIFE / AIR HEAD COMMAND SIGNAL JUNCTION "30"	BELDEN 8619
7	WHITE / RED	LOWER / UPPER PRIMARY COMMAND SIGNAL JUNCTION "27"	BELDEN 8619
8	BLACK / RED	LOWER / UPPER SECONDARY COMMAND SIGNAL JUNCTION "28"	BELDEN 8619
9			
10			
11			
12			

PLUG #3

PIN #		KAR-TECH ENCLOSURE	
1	ORANGE	AIR HEAD COIL #1 - PIN "A" TO JUNCTION 1	BELDEN 8468
2	BLUE	AIR HEAD COIL #1 - PIN "B" TO JUNCTION 25	BELDEN 8468
3	RED / BLACK	LOWER PRIMARY COIL #1 - PIN "A" TO JUNCTION 5	BELDEN 8468
4	WHITE / BLACK	LOWER PRIMARY COIL #1 - PIN "B" TO JUNCTION 26	BELDEN 8468
5	ORANGE / BLACK	UPPER PRIMARY COIL #1 - PIN "A" TO JUNCTION 9	BELDEN 8468
6	GREEN / BLACK	UPPER PRIMARY COIL #1 - PIN "B" TO JUNCTION 27	BELDEN 8468
7	BLUE / BLACK	LOWER SECONDARY COIL #1 - PIN "A" TO JUNCTION 13	BELDEN 8468
8	BLACK / WHITE	LOWER SECONDARY COIL #1 - PIN "B" TO JUNCTION 28	BELDEN 8468
9	RED / WHITE	UPPER SECONDARY COIL #1 - PIN "A" TO JUNCTION 17	BELDEN 8468
10	GREEN / WHITE	UPPER SECONDARY COIL #1 - PIN "B" TO JUNCTION 29	BELDEN 8468
11	RED	AIR KNIFE COIL #1 - PIN "A" TO JUNCTION 21	BELDEN 8468
12	BLACK	AIR KNIFE COIL #1 - PIN "B" TO JUNCTION 30	BELDEN 8468

LOWER PRIMARY	1
UPPER PRIMARY	2
AIR HEAD	3
LOWER SECONDARY	4
UPPER SECONDARY	5
AIR KNIFE	6

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PLUG #3

24 PIN PLUG

PIN #	PANEL RIGHT SIDE		
1	BROWN	21	STACKER MODE SWITCH TO JUNCTION PANEL
2	BLACK	96	AIR HEAD DEFLECTOR MV5 VALVE UP
3	WHITE	95	AIR HEAD DEFLECTOR MV5 VALVE DOWN
4	PURPLE	120	GAUGE WHEEL MV5 VALVE UP
5	ORANGE	121	GAUGE WHEEL MV5 DOWN
6	RED	32	SHAKER MV5 VALVE
7	YELLOW	33	SHAKER MV5 VALVE
8	PURPLE	69	AIR HEAD FEED RDRS112-30 ACTUATOR
9	RED	70	AIR HEAD FEED RDRS112-30 ACTUATOR
10	YELLOW	42	BIN FILL RDRS112-30 ACTUATOR TO JUNCTION PANEL
11	WHITE	43	BIN FILL RDRS112-30 ACTUATOR TO JUNCTION PANEL
12	YELLOW	76	CROSS RDRS112-30 ACTUATOR
13	GREEN	77	CROSS RDRS112-30 ACTUATOR
14	ORANGE	145	LEFT SIDE RDRS112-30 ACTUATOR
15	BLUE	146	LEFT SIDE RDRS112-30 ACTUATOR
16	GREEN	78	BIN UNLOAD RDRS112-30 ACTUATOR TO JUNCTION PANEL
17	BROWN	79	BIN UNLOAD RDRS112-30 ACTUATOR TO JUNCTION PANEL
18	BLACK	22	BOOM SWITCH TO DTS-0373B SOLENOID TO JUNCTION PANEL
19	ORANGE	50	BIN UNLOAD SWITCH TO SV3-16-0 SOLENOID TO JUNCTION PANEL
20	YELLOW	5	AIR HEAD FEED SWITCH TO DTS-4208B SOLENOID
21	BROWN	11	LEFT SIDE / BIN FILL SWITCH TO DTS-0373B SOLENOID
22	BROWN	16	CROSS SWITCH TO DTS-0373B SOLENOID
23	RED	82	CLEANING TABLE SWITCH TO DTS-0373B / DTS-4208B SOLENOIDS
24			

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PLUG #1

37 PIN PLUG

PIN #	PANEL RIGHT SIDE			
1	BLACK	108	STONE BOX MV5 VALVE UP	BLACK
2	RED	109	STONE BOX MV5 VALVE DOWN	RED
3	ORANGE	110	BOOM OUTER MV5 VALVE UP	ORANGE
4	BLUE	111	BOOM OUTER MV5 VALVE DOWN	BLUE
5	WHITE	112	BOOM LIFT MV5 VALVE UP	BLACK / WHITE
6	BROWN	113	BOOM LIFT MV5 VALVE DOWN	RED / WHITE
7	PURPLE	114	BOOM SWING MV5 VALVE OUT	BLUE / WHITE
8	GREEN	115	BOOM SWING MV5 VALVE IN	GREEN / WHITE
9	YELLOW	116	COULTER MV5 VALVE UP	ORANGE / BLACK
10	BROWN	117	COULTER MV5 VALVE DOWN	BLUE / BLACK
11	RED	118	BLADE MV5 VALVE UP	RED / BLACK
12	BLACK	119	BLADE MV5 VALVE DOWN	GREEN / BLACK
13	BLUE	55	STEERING MV4 VALVE	
14	ORANGE	56	STEERING MV4 VALVE	
15	PURPLE	83	AUTO CENTER SWITCH TO RELAY	
16	BROWN	153	LOWER PRIMARY REVERSING - REVERSE	
17	ORANGE	154	UPPER PRIMARY REVERSING - REVERSE	
18	GREEN	155	UPPER SECONDARY REVERSE	
19	YELLOW	156	LOWER PRIMARY REVERSING - FORWARD	
20	RED	157	UPPER PRIMARY REVERSING - FORWARD	
21	BLACK	158	LOWER SECONDARY REVERSE	
22				
23	RED	012	KEY SWITCH TO POWER SOLENOID'S - "IGN "	
24	WHITE	61	CROSS PRESSURE SWITCH "N.O."	
25	YELLOW	20	HYDRAULIC OIL LEVEL SENSOR TO BZL13	
26	ORANGE	04	LOW PRESSURE REAR WHEEL ASSIST CURCUIT	
27	BROWN	06	BACK UP LIGHTS SWITCH TO RELAY	
28	BLACK	034	LEFT WORK LIGHTS SWITCH TO RELAYS	
29	BLUE	036	RIGHT WORK LIGHTS SWITCH TO RELAYS	
30	RED	81	FUEL PUMP SWITCH TO FUEL PUMP	
31	YELLOW	053	FLASHERS SWITCH TO SIGNAL STAT TO RELAY	
32	RED	029	STROBE LIGHT TO RELAY	
33	WHITE	58	FUEL GAUGE	
34				
35				
36	BLACK		A.H. RPM SENSOR PIN "B" TO RED LION " INP COM" TERMINAL	BELDEN 8762
37	CLEAR		A.H. RPM SENSOR PIN "A" TO RED LION " INP A" TERMINAL	BELDEN 8762

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PLUG #2

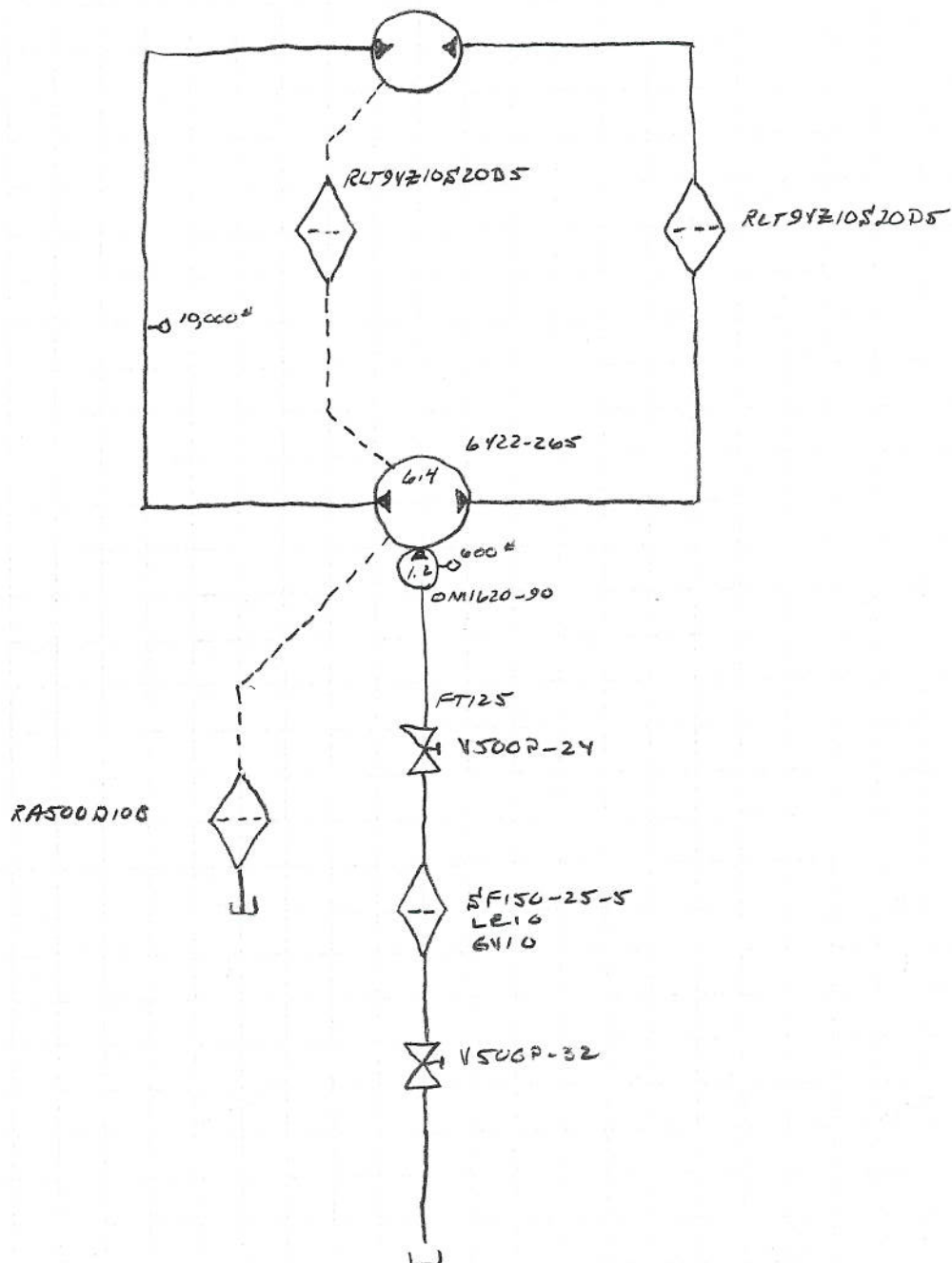
24 PIN PLUG

PIN # PANEL RIGHT SIDE

1	YELLOW	089	RESET SWITCH	
2	ORANGE	090	RESET SWITCH	
3	ORANGE	4	SIDE CONVEYOR BYPASS FOLD MV5 VALVE UP	
4	ORANGE	9	SIDE CONVEYOR BYPASS FOLD MV5 VALVE DOWN	
5	ORANGE	14	SIDE CONVEYOR BYPASS LIFT MV5 VALVE UP	
6	ORANGE	19	SIDE CONVEYOR BYPASS LIFT MV5 VALVE DOWN	
7	RED	7	REAR ASSIST SWITCH TO FREEWHEEL VALVE	
8	BLUE	26	AIR HEAD CLEANER MANUAL TO TIMER PIN #8	
9	WHITE	27	AIR HEAD CLEANER MANUAL TO TIMER PIN #9	
10	PURPLE	28	AIR HEAD CLEANER AUTOMATIC TO TIMER PIN #10	
11	WHITE	41	BIN FILL TRAVEL MODE SWITCH TO MD3 MODULE	
12	WHITE	371	BIN FILL ERROR WARNING LIGHT TO MD3 MODULE	
13	BLUE	71	BIN FILL MANUAL SWITCH TO MD3 MODULE (DOWN)	
14	ORANGE	72	BIN FILL MANUAL SWITCH TO MD3 MODULE (UP)	
15	RED	75	BIN FILL AUTOMATIC SWITCH TO MD3 MODULE	
16	WHITE	65	SEGMENT ROLL RDRS112-30 ACTUATOR	
17	PURPLE	66	SEGMENT ROLL RDRS112-30 ACTUATOR	
18	RED	149	STEEL ROLL RDRS112-30 ACTUATOR	
19	YELLOW	150	STEEL ROLL RDRS112-30 ACTUATOR	
20	BLACK	151	STEEL ROLL SPACE ACTUATOR	
21	RED	152	STEEL ROLL SPACE ACTUATOR	
22	ORANGE	147	HUMP SHAFT ACTUATOR	
23	BLUE	148	HUMP SHAFT ACTUATOR	
24				

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LEAFARD AG
4RPT#65LAH

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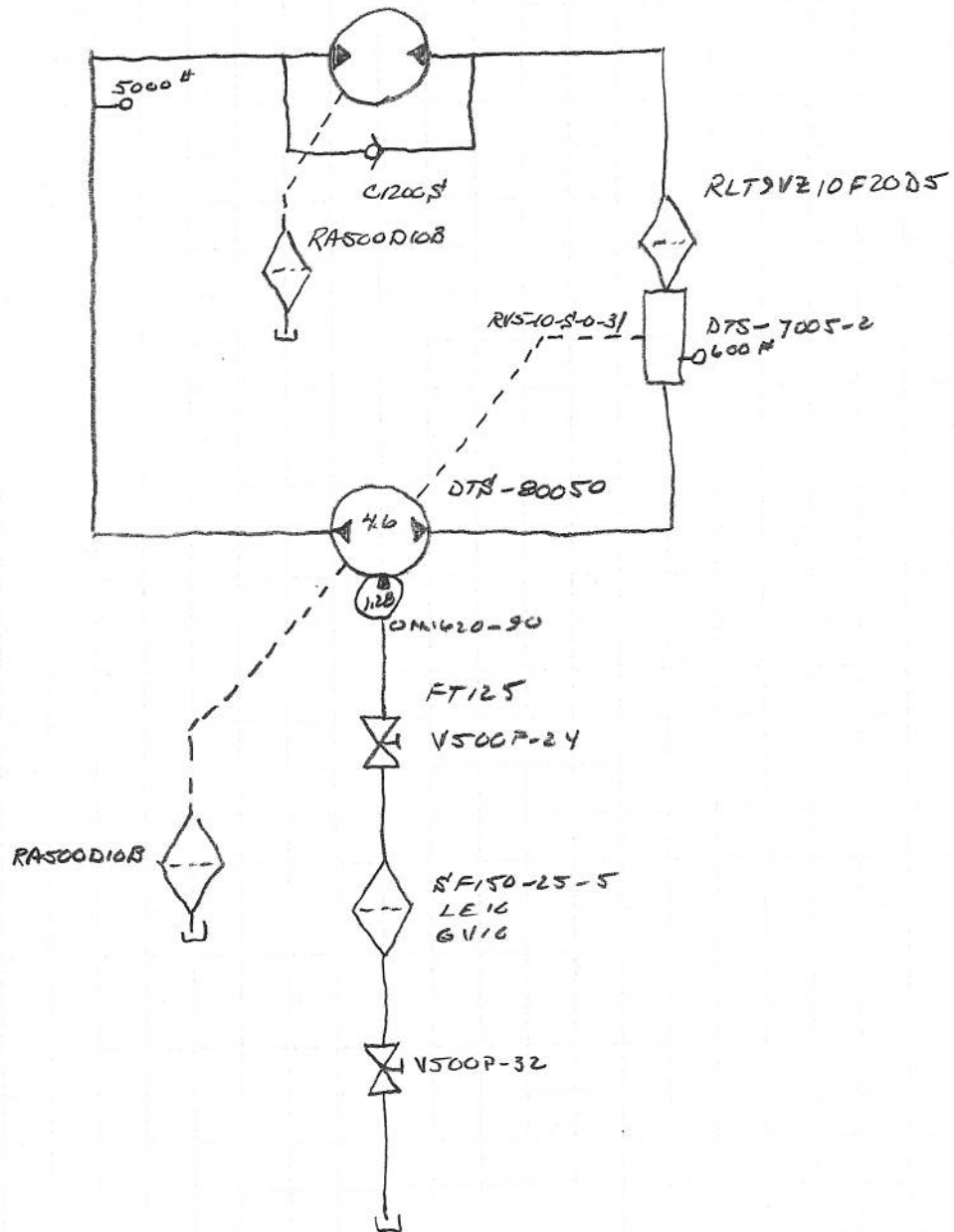


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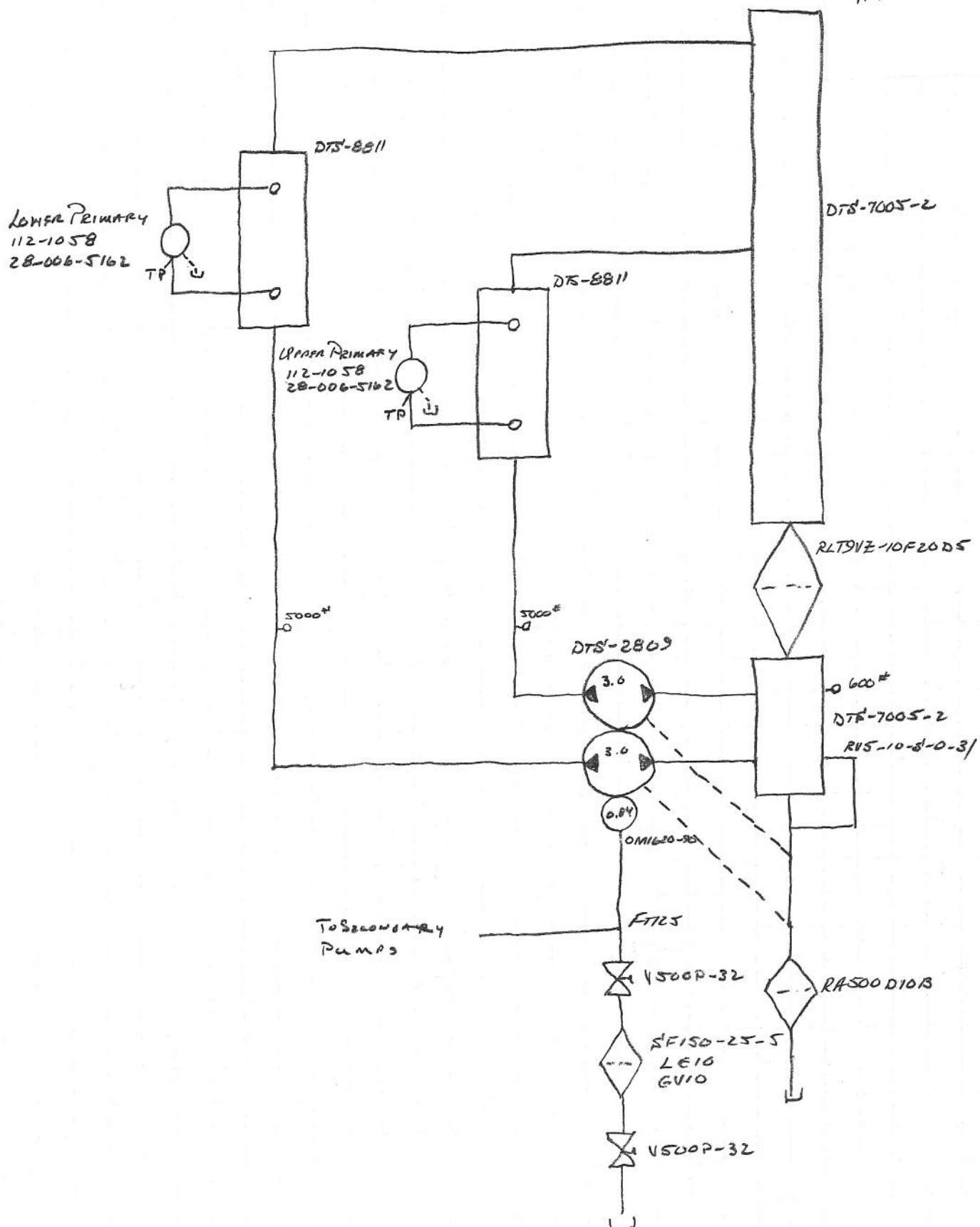
AIR KNIFE

PGM350A946 VCEB17-98

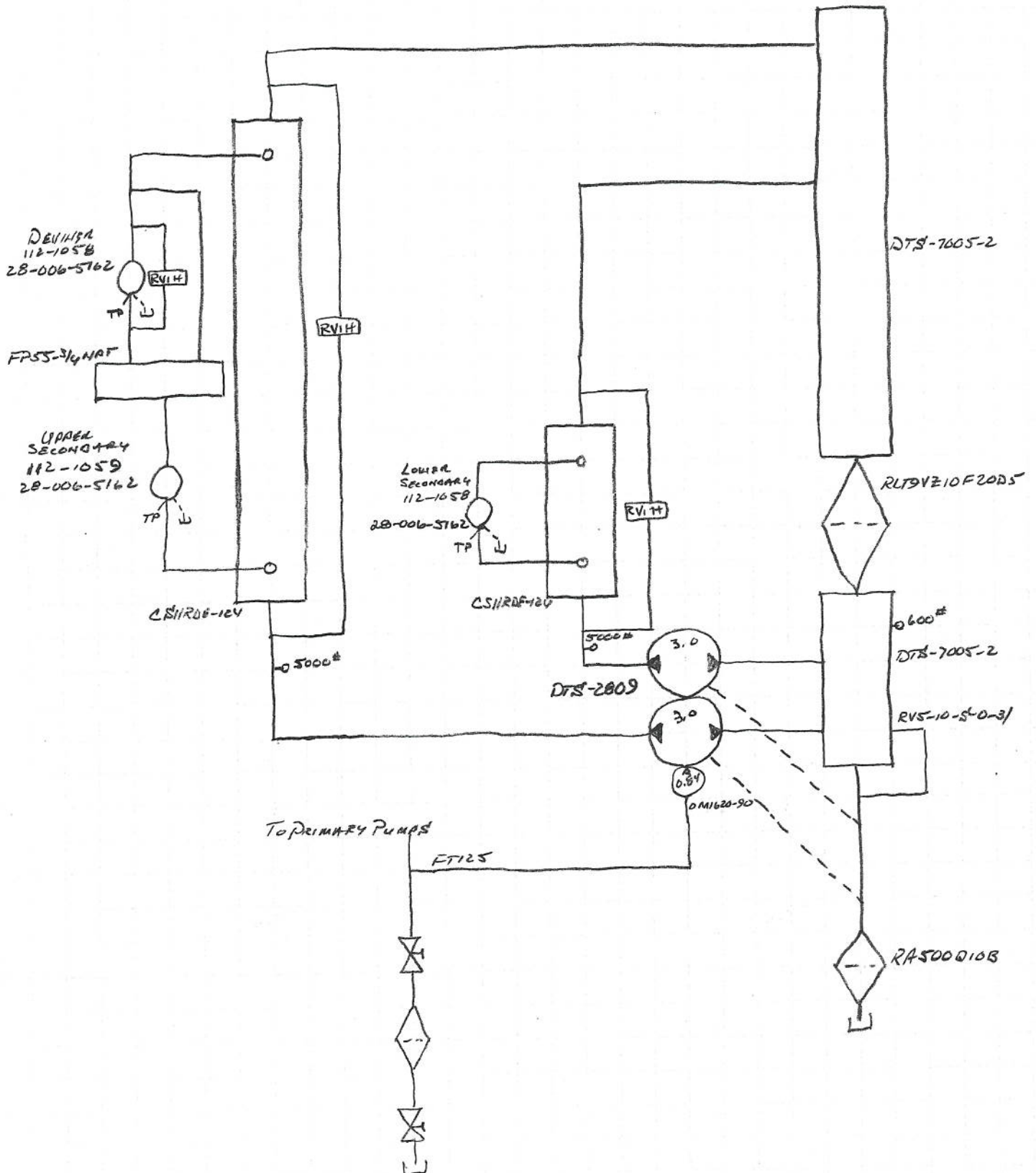
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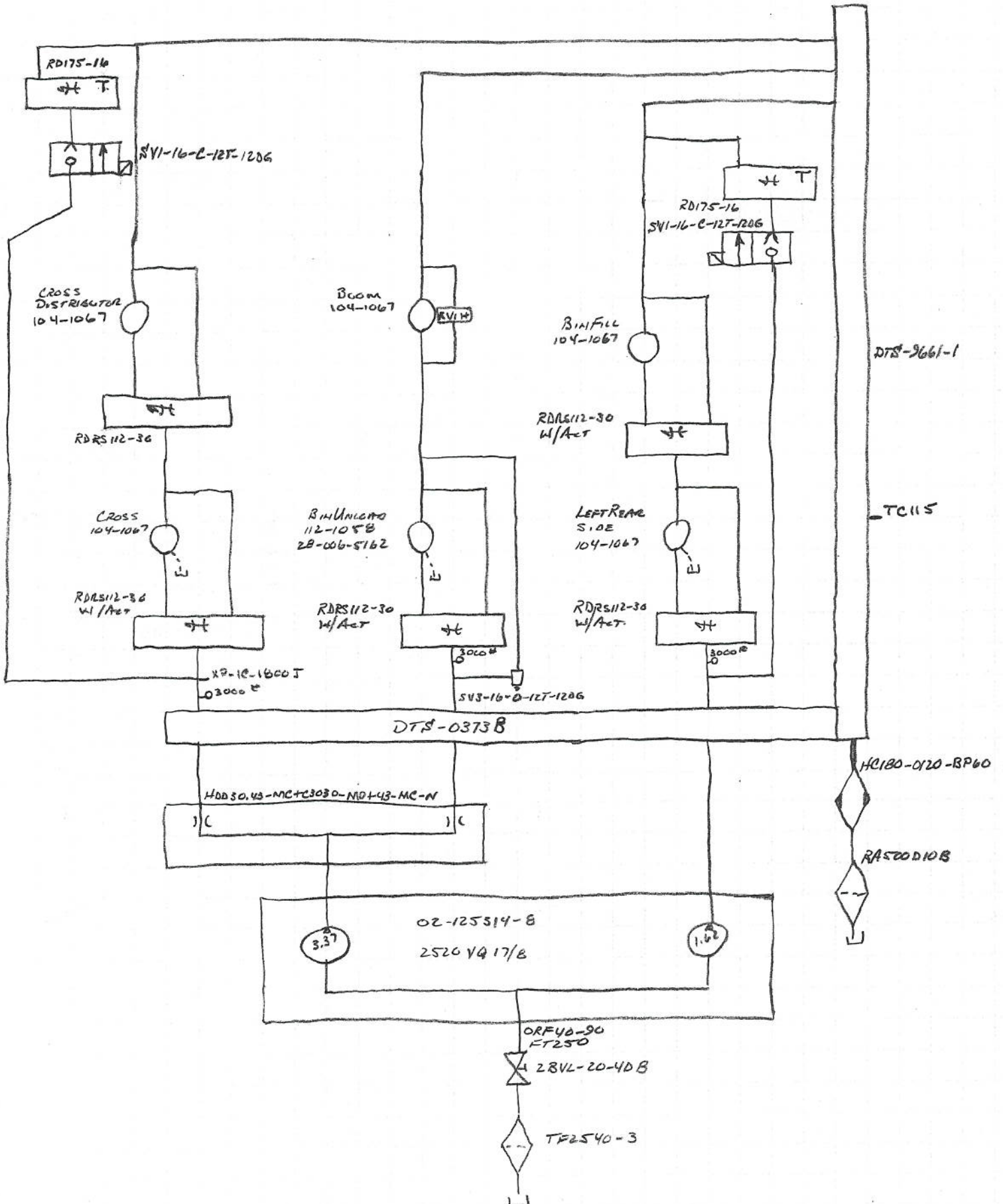
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42PTH656AH



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LEHNA AG.
NRPT#65LAH

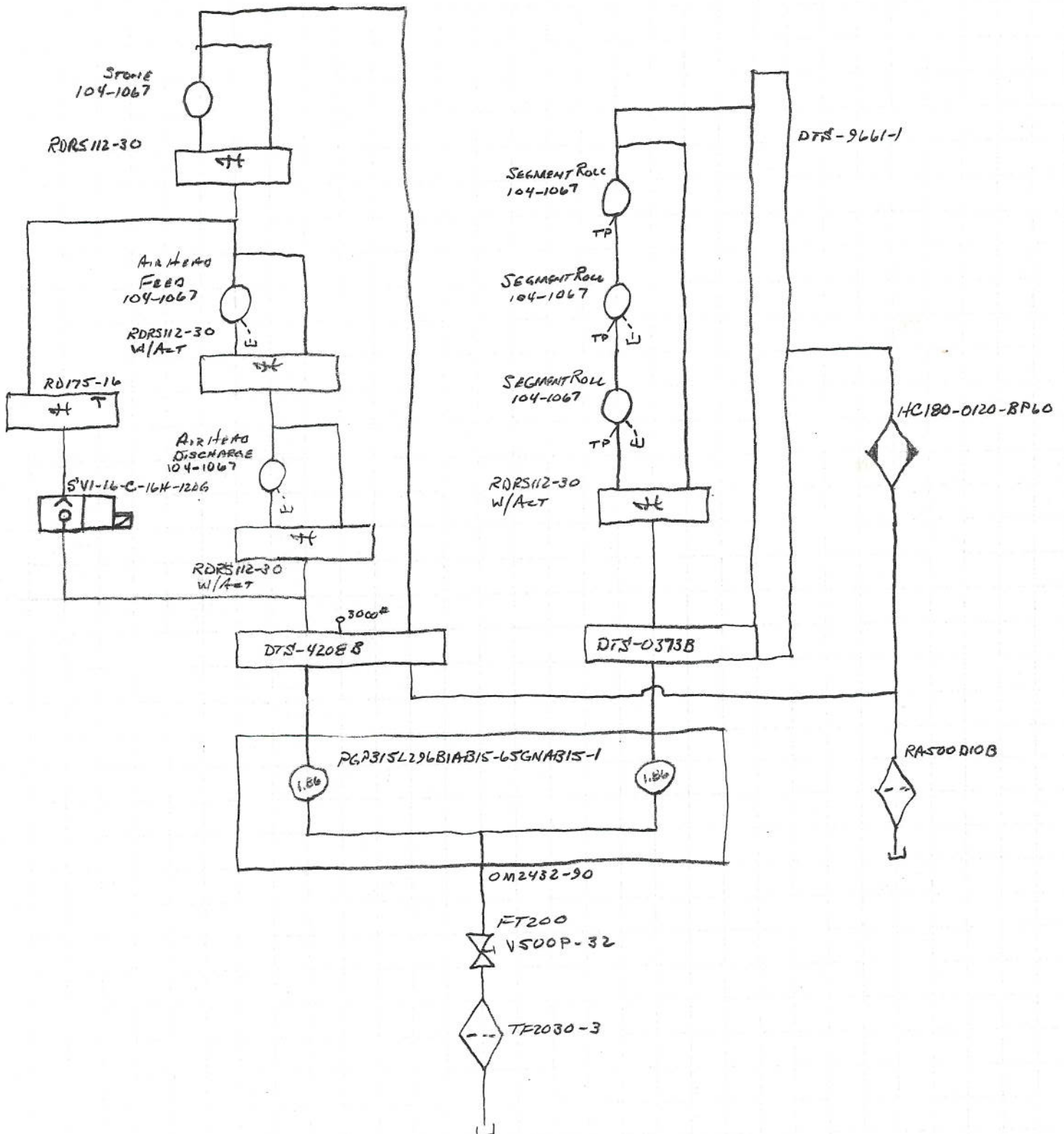


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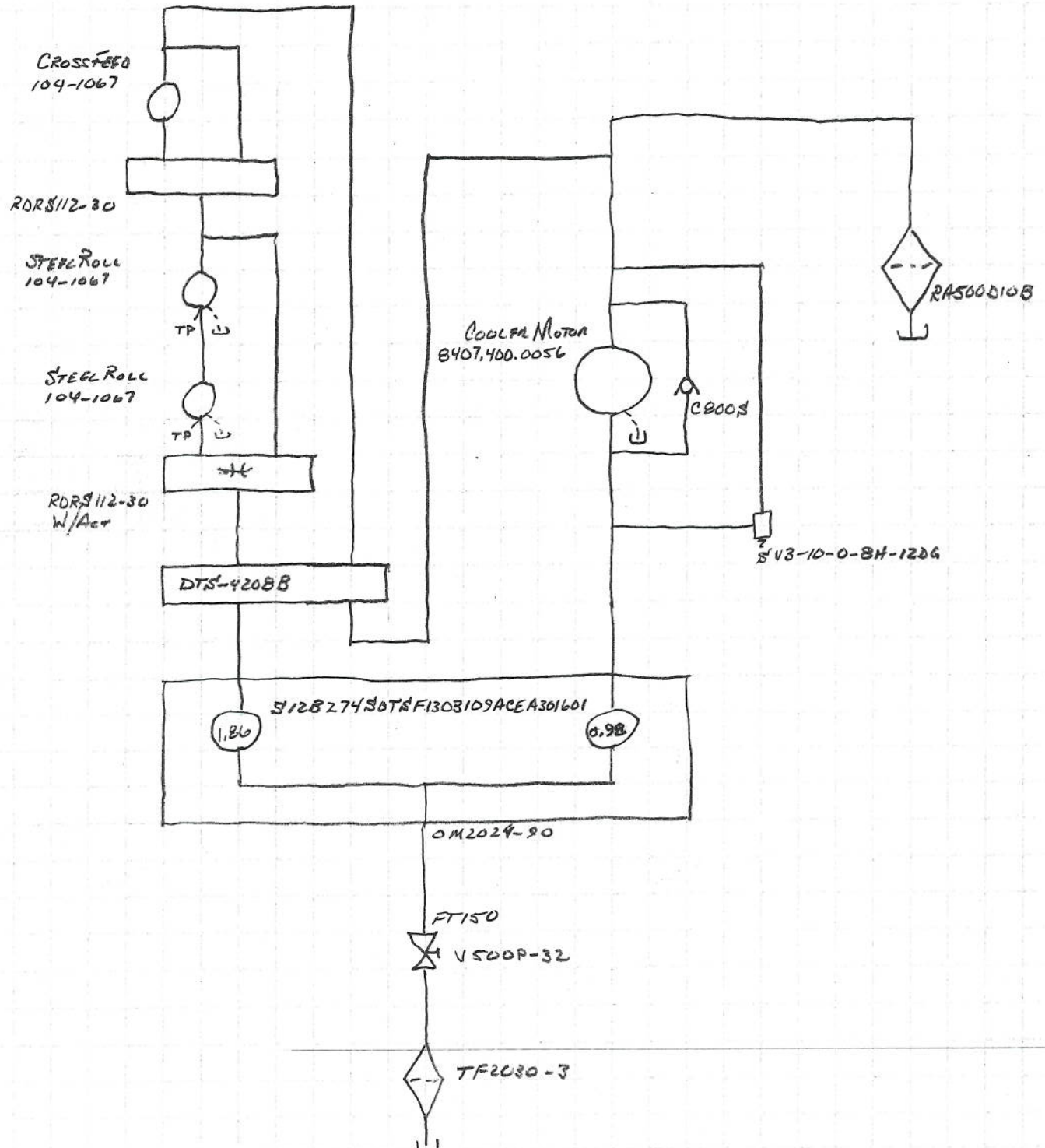
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MRPT HUSLAH



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LENHARD AG
ARPT#65LAH



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MRPT H 65 LAH

