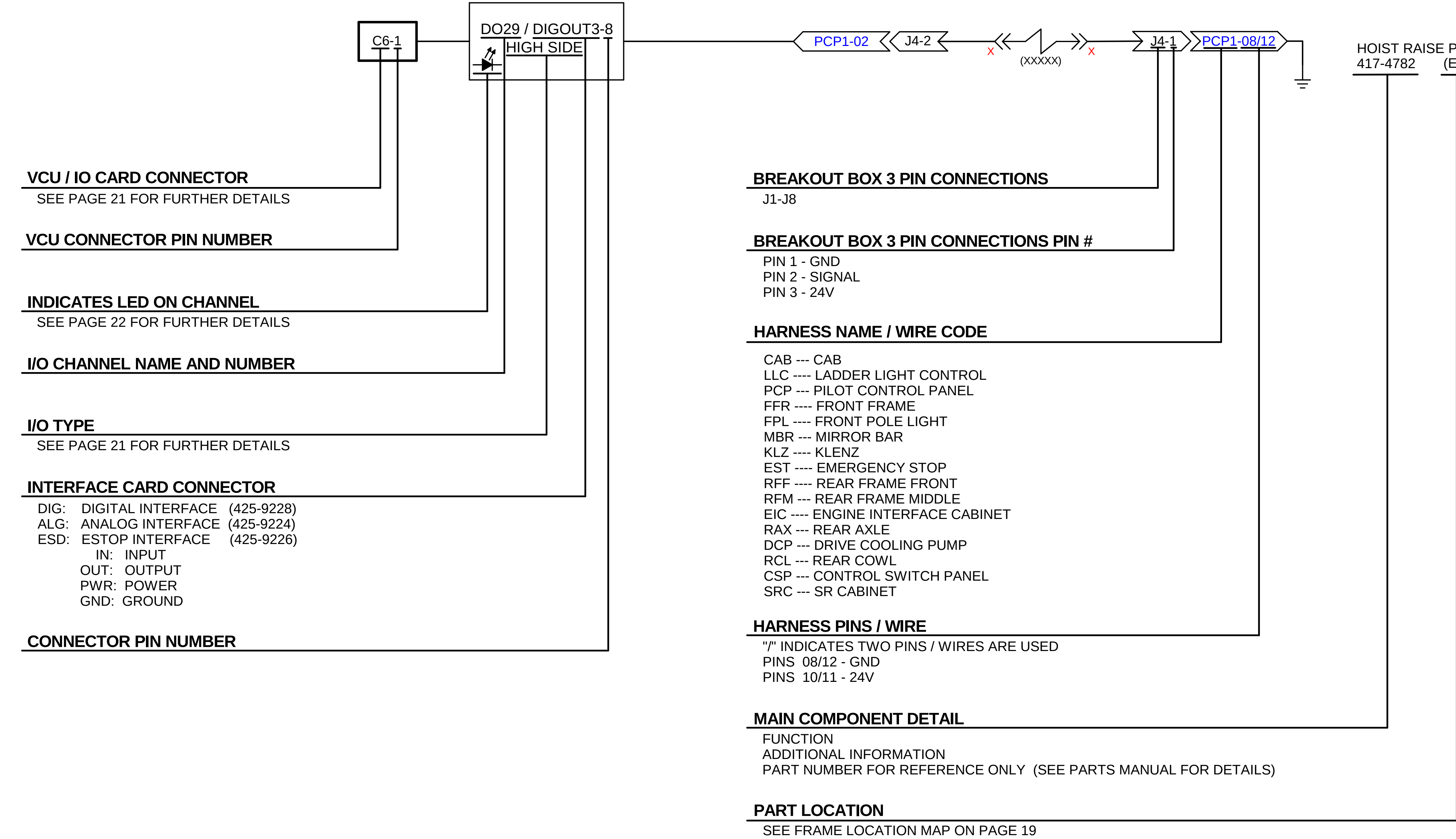


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LOADER SPECIFIC FEATURES / OPTIONS		
DDEC IV ENGINE	(SHEET 13)	
ADEC ENGINE	(SHEET 13)	✓
CUMMINS QST30 ENGINE	(SHEET 14)	
CUMMINS QSK38 ENGINE	(SHEET 14)	
CUMMINS QSK50 ENGINE	(SHEET 14)	
CUMMINS QSK60 HPI ENGINE (T1)	(SHEET 14)	
CUMMINS QSK60 MCRS ENGINE (T2)	(SHEET 14)	
AUXILIARY STEERING	(SHEET 17)	✓
AUXILIARY OIL COOLER	(SHEET 17)	✓
CLAMSHELL BUCKET	(SHEET 17)	
REAR VISION CAMERA	(SHEET 17)	✓
HEATERS - COLD CLIMATE	(SHEET 17)	✓
BEACON LIGHT	(SHEET 4)	✓

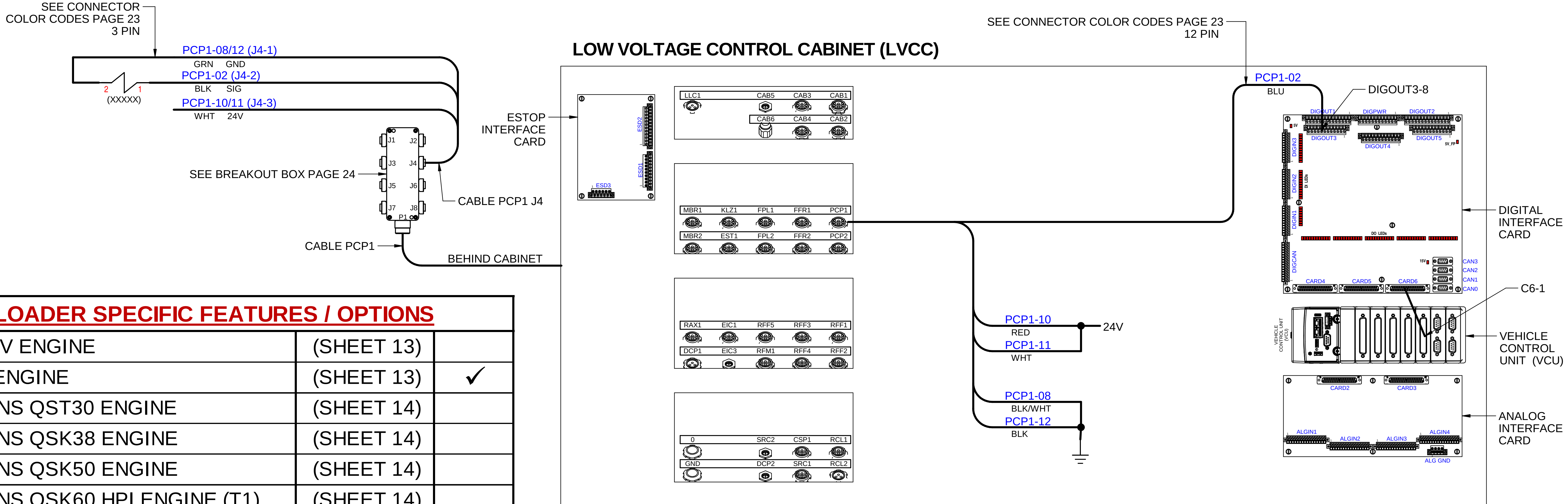
LEGEND



NOTES:

- COLOR CODE**
BLUE: WIRE CODE
RED: CONNECTION PIN
MAGENTA: MODEL SPECIFIC
- CROSS REFERENCE**
(01239)
SHEET NO. | LINE NO. | COLUMN
- GROUND SYMBOLS**
GROUND IN LVCC
FRAME GROUND
- SEE NOTE(S) AT BOTTOM OF PAGE**
- POWER FLOWS LEFT TO RIGHT**
- OUTPUTS ON LEFT
- INPUTS ON RIGHT
- MACHINE STATE:**
- BATTERIES ISOLATED
- STARTER ISOLATED
- E-STOP NOT PRESSED
- PARK BRAKES ENGAGED
- ALL LIGHTS OFF
- LADDER DOWN
- KEYSWITCHES OFF
- KLENZ ENABLE
- FLUIDS FULL
- FUSES NOT BLOWN
- HV CABINET DOOR CLOSED

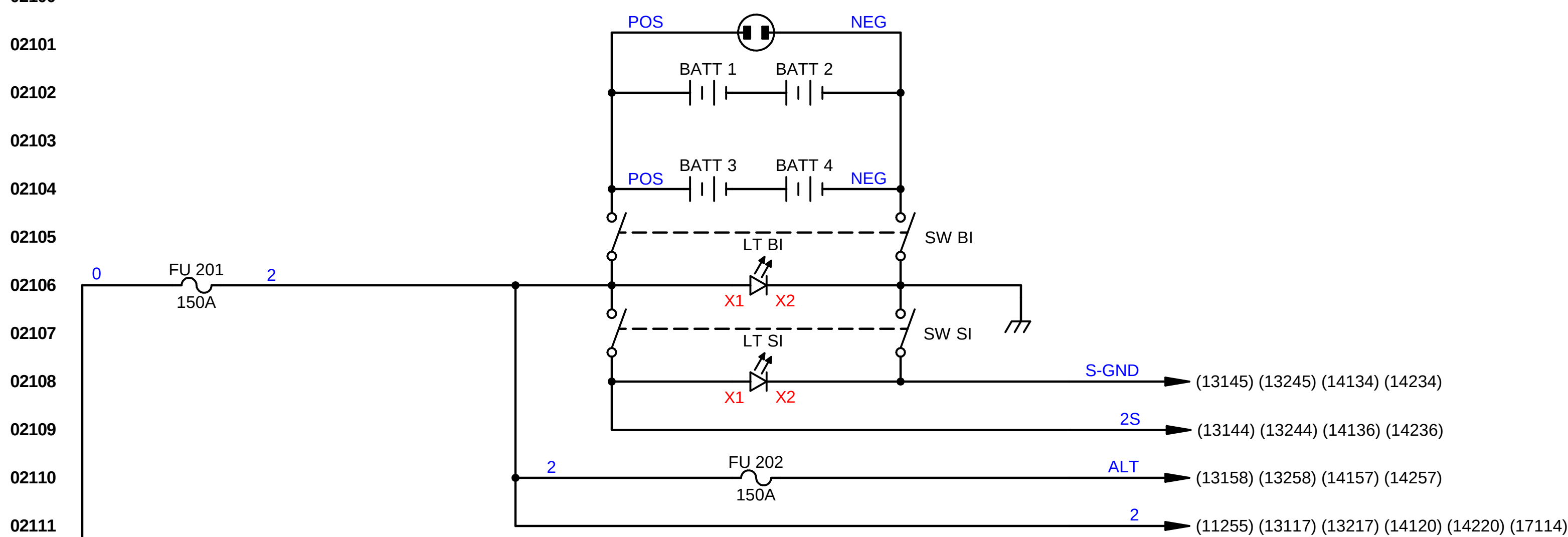
EXAMPLE CIRCUIT



THIS DRAWING AND ALL DATA THEREIN IS THE PROPERTY OF LETOURNEAU. IT IS CONFIDENTIAL AND MUST NOT BE COPIED, IT IS LOANED SUBJECT TO RETURN UPON DEMAND AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO OUR INTEREST. INTERPRET DIM & TOL PER LETOURNEAU SPEC 1850.00	UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES & APPLY BEFORE PLATING OR FINISH COATINGS. • TOLERANCES ON: ANGLES ±1° FRACTIONS ±.016 XX DECIMAL ±.03 XXX DECIMAL ±.015 • MACHINED CORNERS .384 X .45" • WELD PROPERTIES SHALL MEET THE MINIMUM REQUIREMENTS OF THE BASE MATERIAL.	FIRST USED ON CONTRACT NO G2 LOADER	LeTourneau		
	DWN flovett	CHK BS 8-29-2012			ENGR BS 8-29-2012
	PROJ ENGR BS 8-29-2012	PROJ APPROVAL	MATL	ELECTRICAL SCHEMATIC L18502220	
	SCALE 1/1 EST WY			DO NOT SCALE 4277219 01 1 OF 29	

24V ELECTRICS

BATTERY

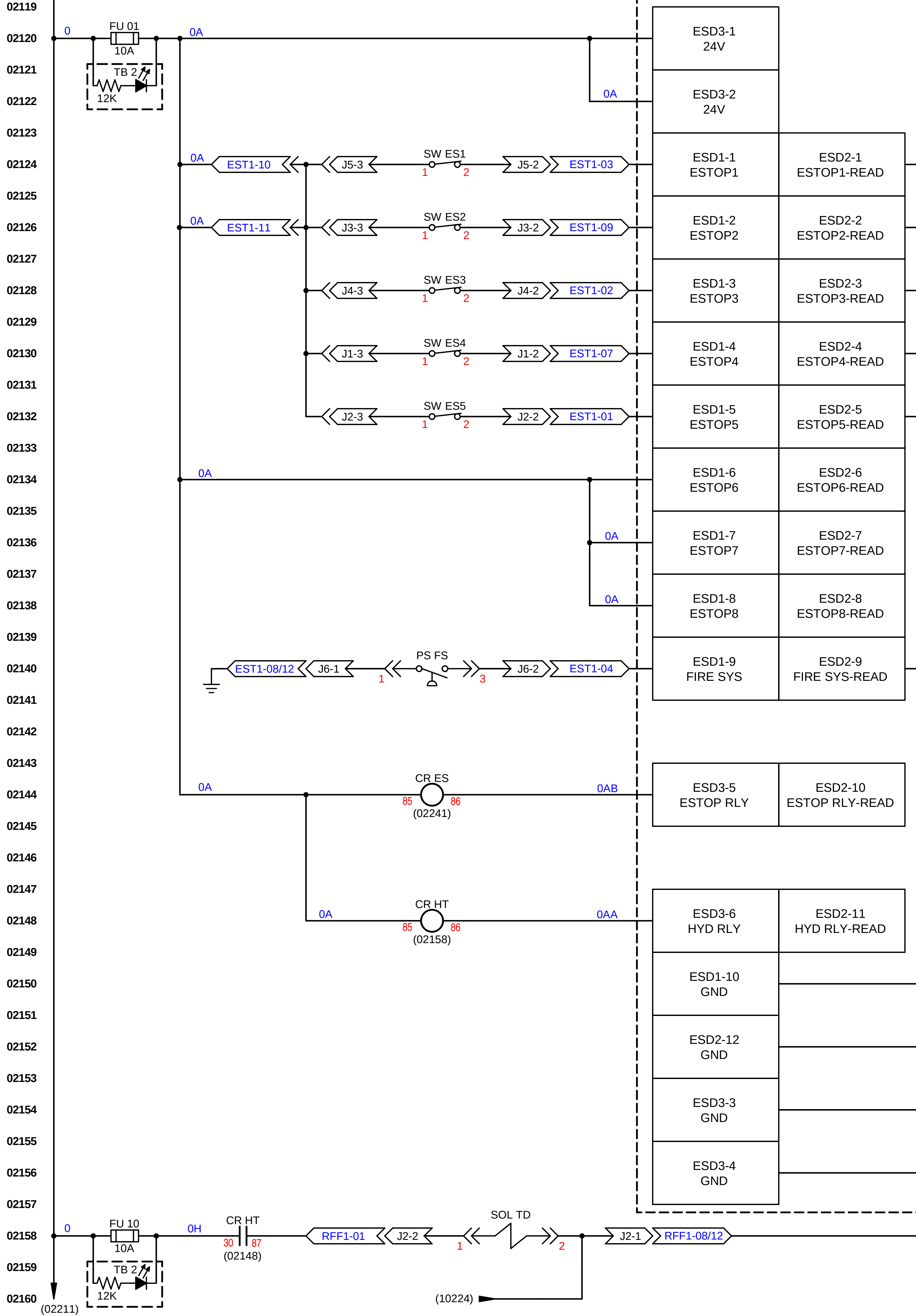


BATTERY 1 & 2

BATTERY 3 & 4
BATTERY ISOLATION SWITCH (D1)
FU 201 425-9237 (E2)
LT BI 424-0049 (D1)
STARTER ISOLATION SWITCH (D1)
LT SI 424-0048 (D1)

FU 202 425-9237 (E2)

EMERGENCY STOP



ESTOP INTFC CARD (425-9226)

CAB E-STOP SWITCH 426-5219 (B5)

HV CABINET E-STOP SWITCH 425-7631 (C4)

HYD RESERVOIR E-STOP SWITCH 425-7631 (F4)

RIGHT REAR E-STOP SWITCH 425-7631 (E1)

LEFT REAR E-STOP SWITCH 425-7631 (D1)

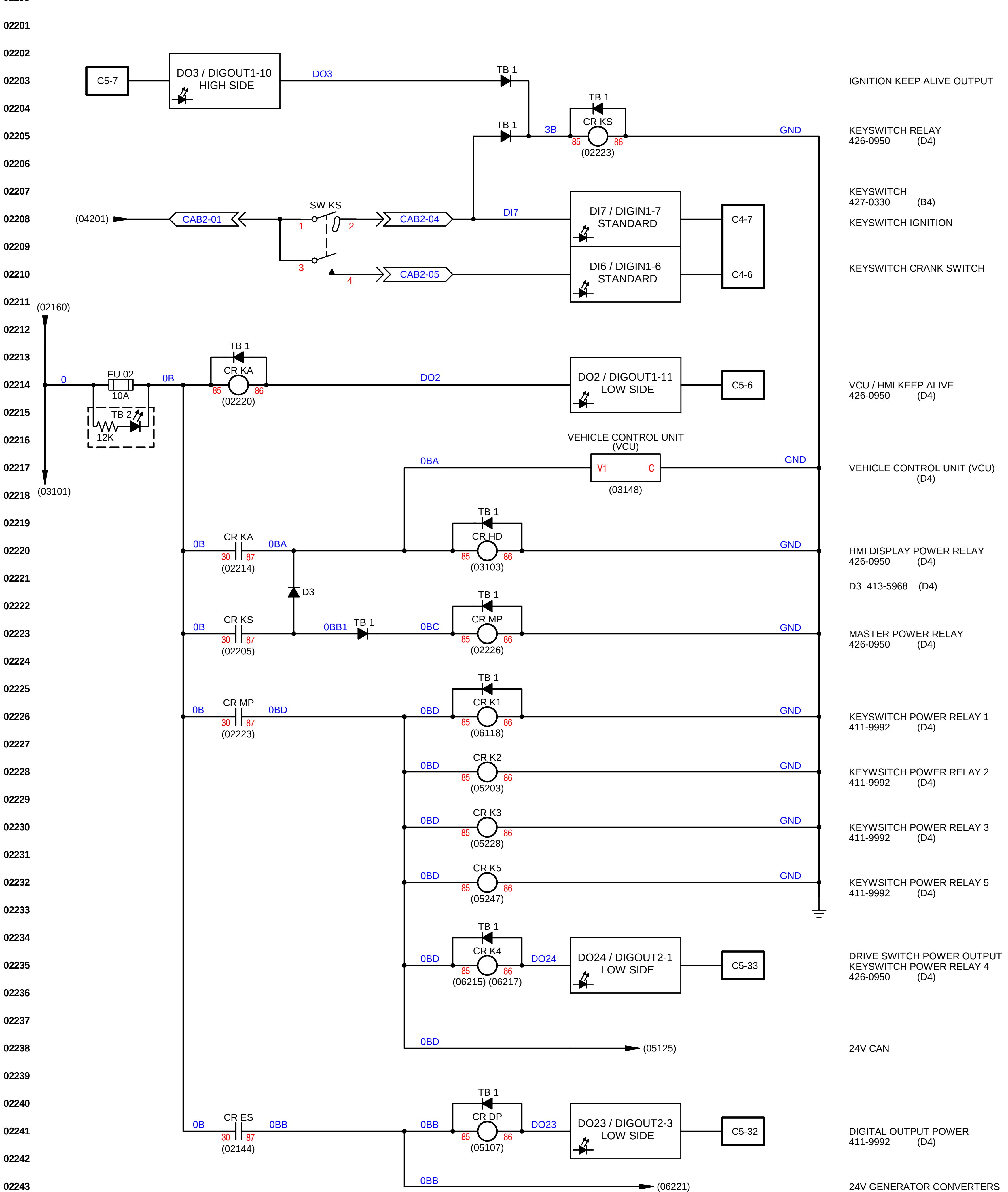
FIRE SYSTEM STATUS 415-5057 (D4)

E-STOP RELAY 426-0950 (D4)

HYD TANK VENT VALVE RELAY 426-0950 (D4)

HYD TANK DUMP 426-1177 (E4)

KEYSWITCH



IGNITION KEEP ALIVE OUTPUT

KEYSWITCH RELAY 426-0950 (D4)

KEYSWITCH 427-0330 (B4)

KEYSWITCH IGNITION

KEYSWITCH CRANK SWITCH

VCU / HMI KEEP ALIVE 426-0950 (D4)

VEHICLE CONTROL UNIT (VCU) (D4)

HMI DISPLAY POWER RELAY 426-0950 (D4)

D3 413-5968 (D4)

MASTER POWER RELAY 426-0950 (D4)

KEYSWITCH POWER RELAY 1 411-9992 (D4)

KEYWSITCH POWER RELAY 2 411-9992 (D4)

KEYWSITCH POWER RELAY 3 411-9992 (D4)

KEYWSITCH POWER RELAY 5 411-9992 (D4)

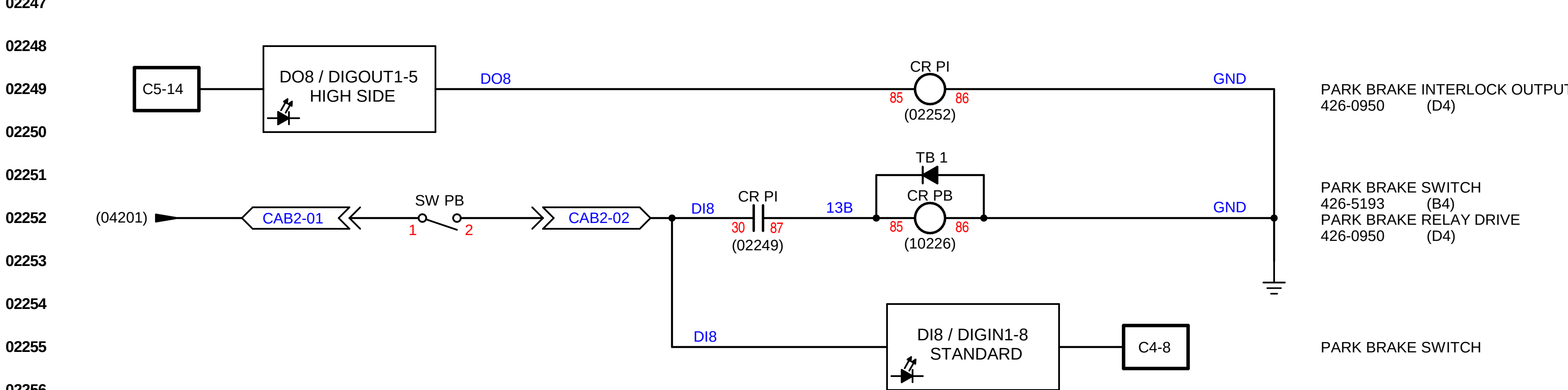
DRIVE SWITCH POWER OUTPUT KEYSWITCH POWER RELAY 4 426-0950 (D4)

24V CAN

DIGITAL OUTPUT POWER 411-9992 (D4)

24V GENERATOR CONVERTERS

PARK BRAKE



PARK BRAKE INTERLOCK OUTPUT 426-0950 (D4)

PARK BRAKE SWITCH 426-5193 (B4)

PARK BRAKE RELAY DRIVE 426-0950 (D4)

PARK BRAKE SWITCH

ELECTRICAL SCHEMATIC L18502220

ISSUED 8-27-12

SCALE 1/1

EST WT

SHEET 2 OF 29

REV 01

DO NOT SCALE

DWG NO 4277219

DESIGNER

CHECKED

APPROVED

DATE

SCALE

SHEET

REV

01

REVISIONS							
ZONE	REV	DESCRIPTION	EQN	DATE	CHG	CHK	APP
	00	RELEASE	NL12-1909	8-29	FL	BS	BS
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS

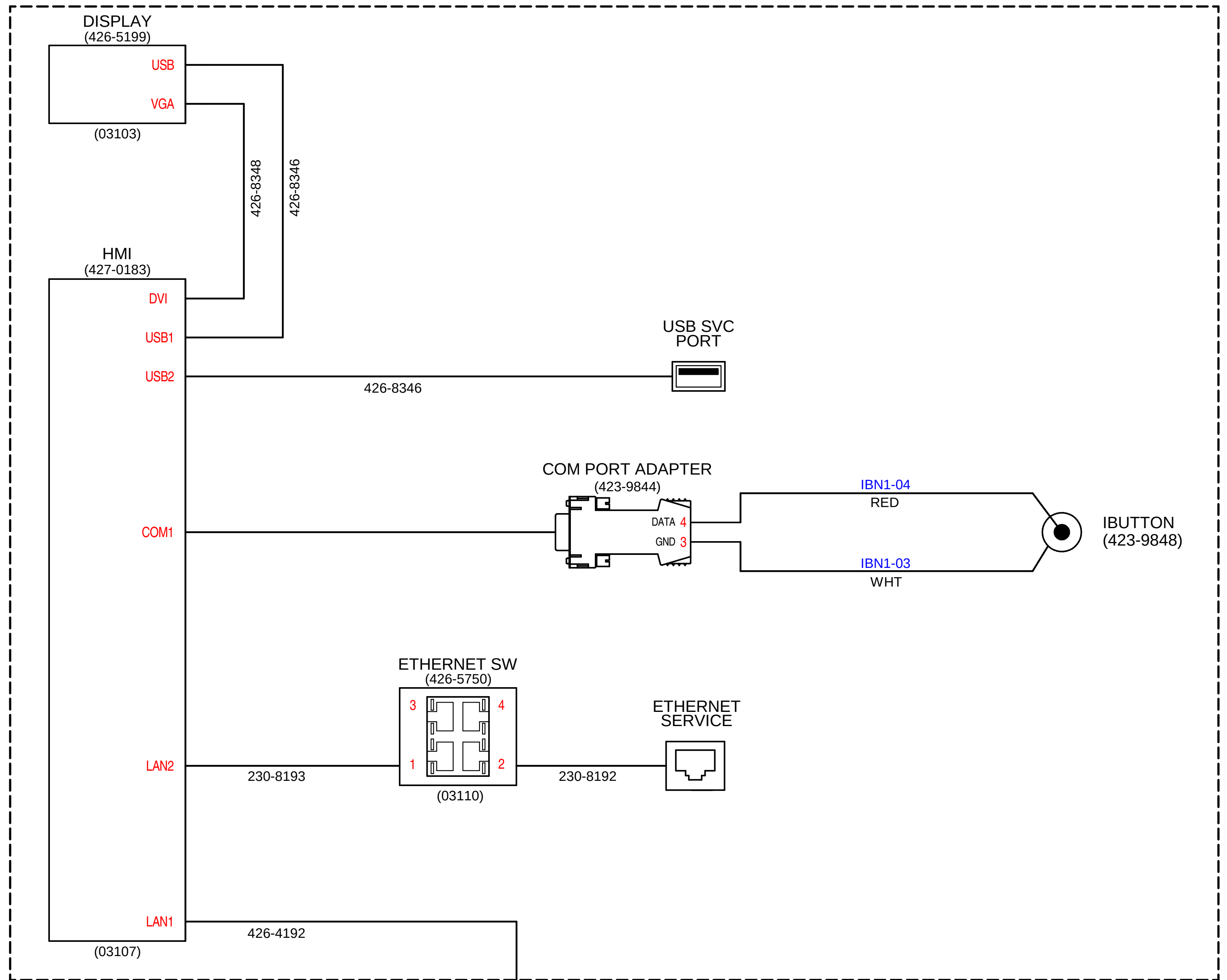
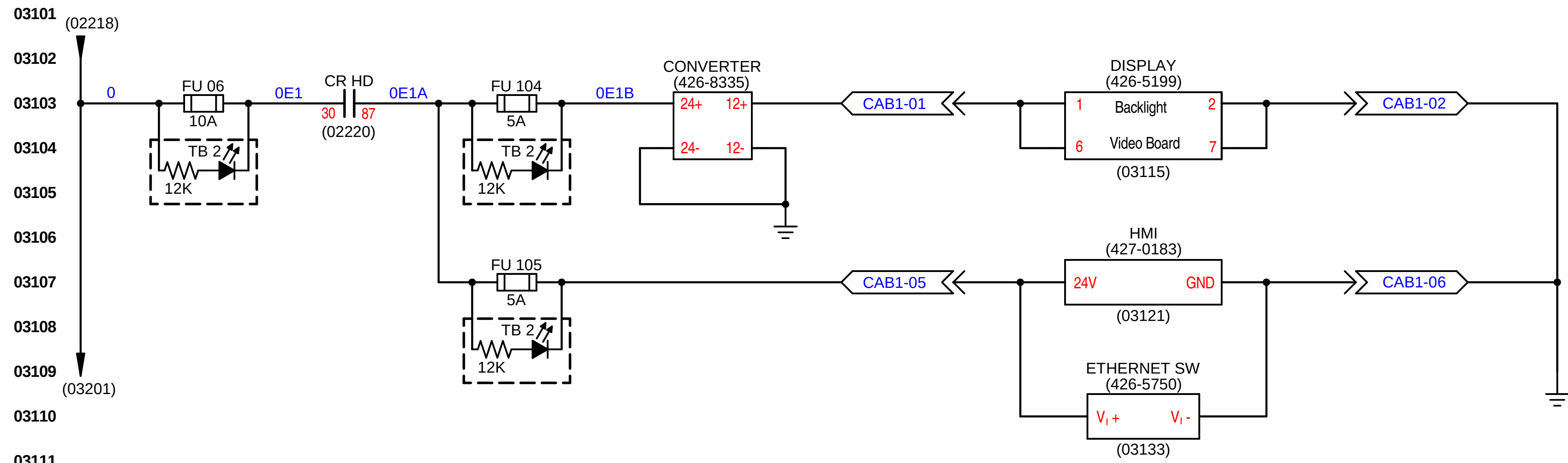


Diagram of the Vehicle Controller (02217) showing its internal components and terminal block. The controller is a rectangular unit with a terminal block on the left side. The terminal block has 12 terminals, with the following labels from top to bottom: 1. 12V (positive terminal), 2. 12V (negative terminal), 3. 12V (positive terminal), 4. 12V (negative terminal), 5. 12V (positive terminal), 6. 12V (negative terminal), 7. 12V (positive terminal), 8. 12V (negative terminal), 9. 12V (positive terminal), 10. 12V (negative terminal), 11. 12V (positive terminal), 12. 12V (negative terminal). The controller is labeled "VEHICLE CONTROLLER" and "02217".

03201 (03109)

03202

03203

03204

03205

03206

03207

03208

03209

03210

DIGPWR-1
+5V_FP

CAB1-12

SPD CTRL PEDAL

C

A

B

CAB1-11

AI1 / ALGIN1-1
0-40V

C2-1

SPD CONTROL PEDAL
425-9998
(B4)

CAB1-09

DIGPWR-2
GND - FP

FOOT PEDAL

CAB1-10

AI2 / ALGIN1-2
0-40V

C2-2

SPD CONTROL PEDAL SUPPLY

This diagram illustrates the electrical control system for the wiper and washer pumps. It is divided into two main sections: the upper section for digital control and the lower section for motor power distribution.

Upper Section: Digital Control

- Inputs:** A vertical bus on the left provides power to several digital output modules:
 - C5-24: DO17 / DIGOUT2-10 HIGH SIDE
 - C5-25: DO18 / DIGOUT2-9 HIGH SIDE
 - C5-26: DO19 / DIGOUT2-8 HIGH SIDE
 - C5-21: DO14 / DIGOUT2-13 HIGH SIDE
 - C5-22: DO15 / DIGOUT2-12 HIGH SIDE
- Outputs and Components:**
 - DO17:** Controls the FRONT WIPER HIGH (426-0950, D4) via a relay (CR FH, 85/86, 03226).
 - DO18:** Controls the FRONT WIPER LOW (426-0950, D4) via a relay (CR FL, 85/86, 03228).
 - DO19:** Controls the REAR WIPER LOW OUTPUT (426-0950, D4) via a relay (CR RL, 85/86, 03232).
 - DO14:** Controls the FRONT WASHER PUMP (425-5182, A5) via a relay (MTR WF) and a relay interface (RFF5-07/J1-2 to RFF5-08/12/J1-1).
 - DO15:** Controls the REAR WASHER PUMP (425-5182, A5) via a relay (MTR WR) and a relay interface (RFF5-09/J3-2 to RFF5-08/12/J3-1).

Lower Section: Motor Power Distribution

- Power Source:** A 10A fuse (FU 22) and a 12K thermistor (TB 2) are connected to a main power line (0Z).
- Relay Interface:** A central dashed box contains three relays (CR FH, CR FL, CR RL, 03215, 03217, 03219) that interface the digital control lines with the motor power lines.
- Motor Control:**
 - FRONT WIPER MOTOR (426-8500, B4):** Controlled by CAB3-10, CAB3-11, and CAB3-12.
 - REAR WIPER MOTOR (426-8497, A4):** Controlled by CAB3-01 and CAB3-02.
- Motor Labels:** The motors are labeled MTR FW (Front Wiper Motor) and MTR RW (Rear Wiper Motor), with terminals L, H, and P.

The diagram illustrates the wiring for the Drive Cool Reservoir Level Switch (E2). It is divided into two main sections: a power supply section and a control section.

Power Supply Section:

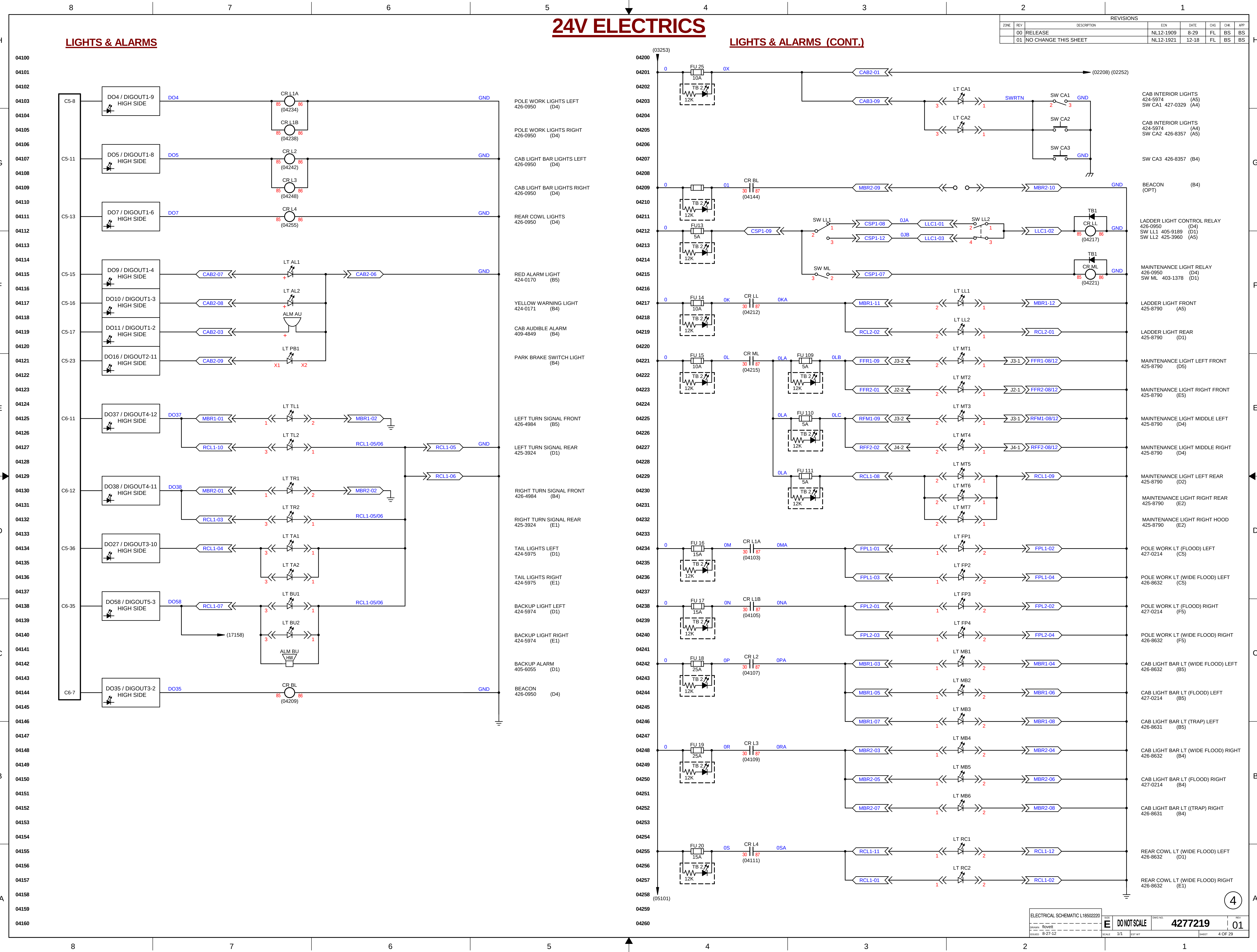
- Input:** (05118) is connected to the power supply.
- Fuses:** Three fuses (FU 221, FU 222, FU 223) are shown, each rated 25A. They are connected to the power supply and the control section.
- Terminal Blocks:** Three terminal blocks (TB 2) are shown, each containing a 12K resistor and a diode.

Control Section:

- Relays:** Three relays (PUMP 1, PUMP 2, PUMP 3) are shown, each with 4 pins (4 PIN).
- Connections:**
 - PUMP 1:** 4 ENABLE (P1-4) to GND 2 (P1-2), 3 POWER (P1-3) to ADDRESS 1 (P1-1).
 - PUMP 2:** 4 ENABLE (P2-4) to GND 2 (P2-2), 3 POWER (P2-3) to ADDRESS 1 (P2-1).
 - PUMP 3:** 4 ENABLE (P3-4) to GND 2 (P3-2), 3 POWER (P3-3) to ADDRESS 1 (P3-1).
- Resistor:** A 10K resistor (D1) is connected between the ADDRESS 1 (P3-1) and GND 2 (P3-2).
- Switch:** A switch (C5-2) is connected to the ADDRESS 1 (P3-1) and GND 2 (P3-2).

Legend:

- COOLING PUMP 1 426-7796 (D2)
- COOLING PUMP 2 426-7796 (D2)
- COOLING PUMP 3 426-7796 (D2) L1850, L2350 ONLY
- RESISTOR 098-9548 (D1)
- DRIVE COOL RESERVOIR LEVEL SWITCH 411-7627 (E2)

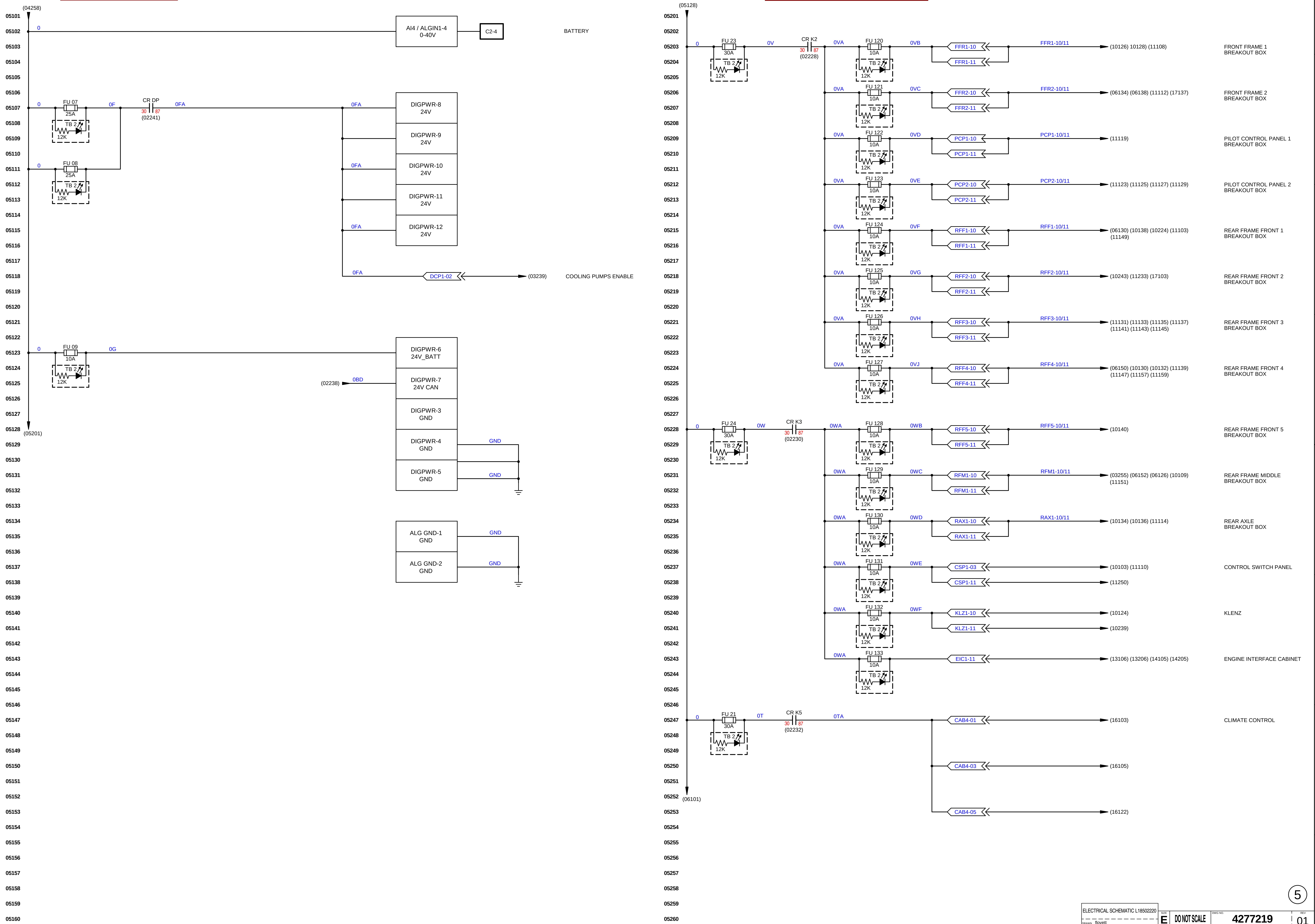


24V ELECTRICS

POWER DISTRIBUTION

POWER DISTRIBUTION (CONT.)

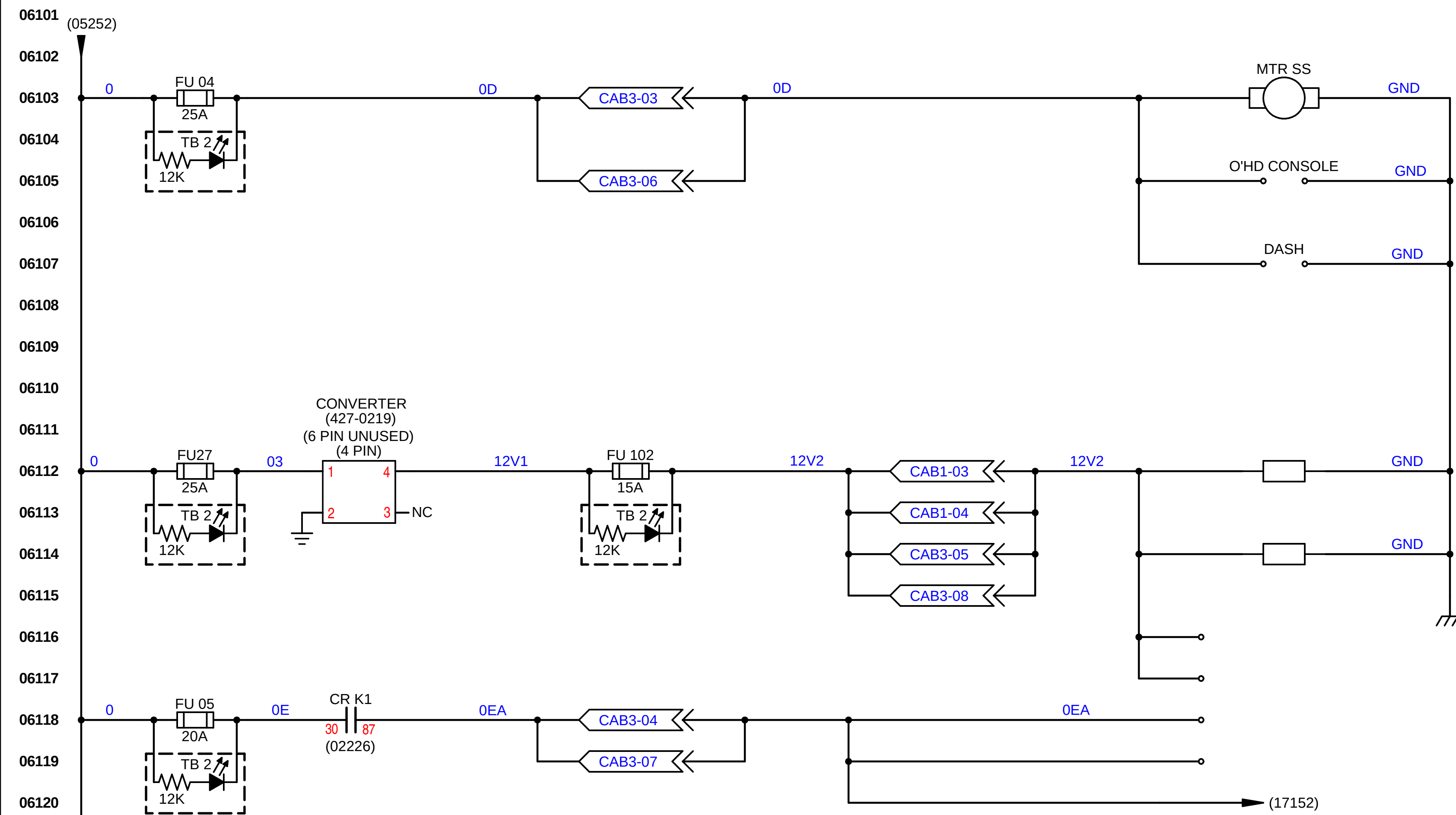
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	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS



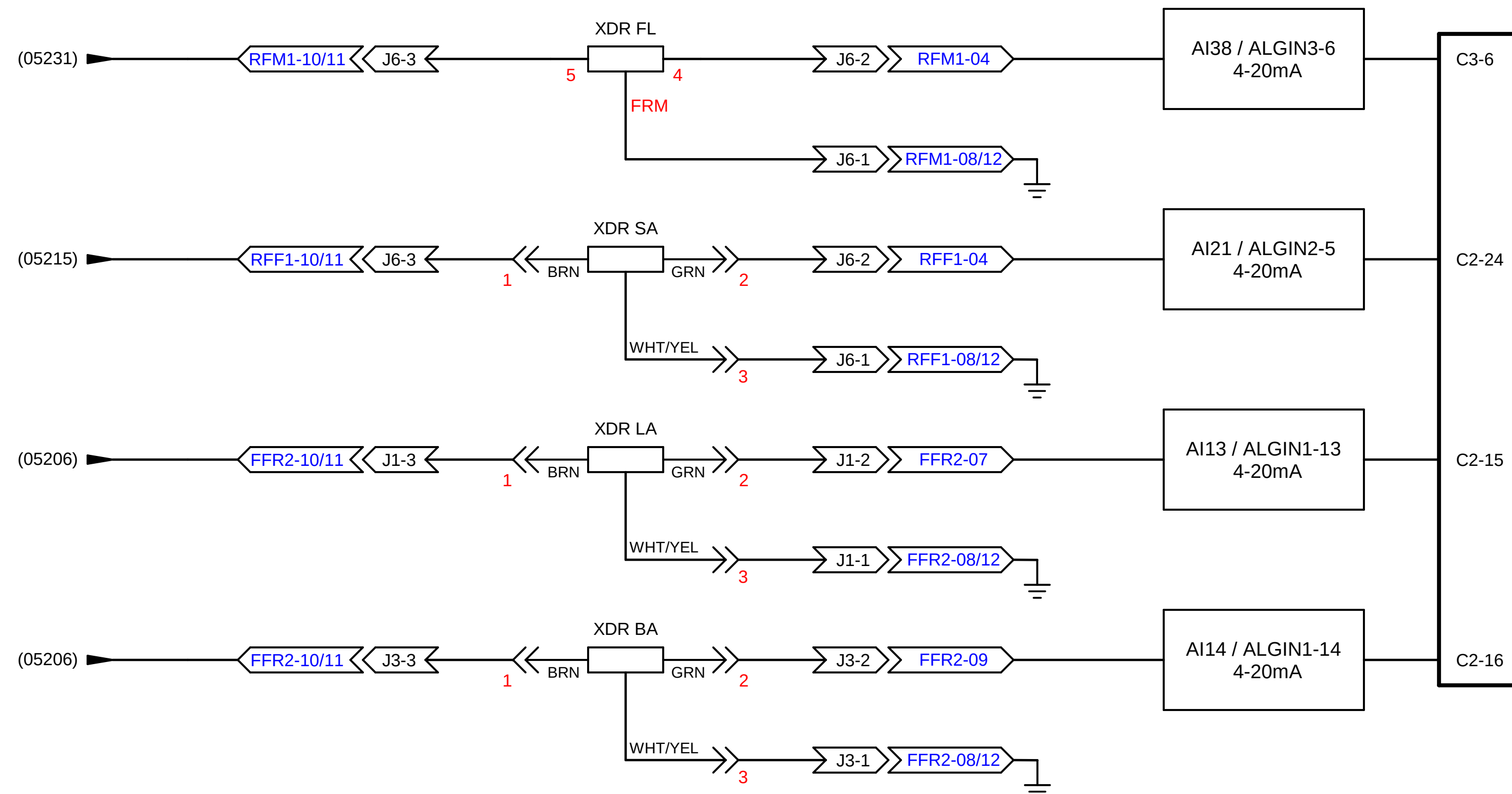
24V ELECTRICS

REVISIONS							
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DEALER OPTIONS



POSITION SENSORS



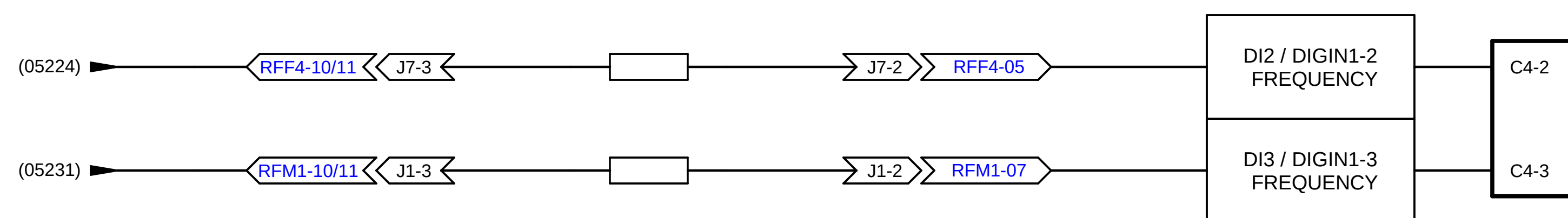
FUEL LEVEL
LOW TO FULL
426-5195 (D2)
L950, L1150 ONLY
427-0064 (D2)
L1350, L1850, L2350 ONLY

STEER POSITION
0-120°
425-7857 (E4)

LIFT ARM POSITION
0-120°
425-7857 (E5)

BELLCRANK TO LIFT ARM
0-120°
425-7857 (E7)

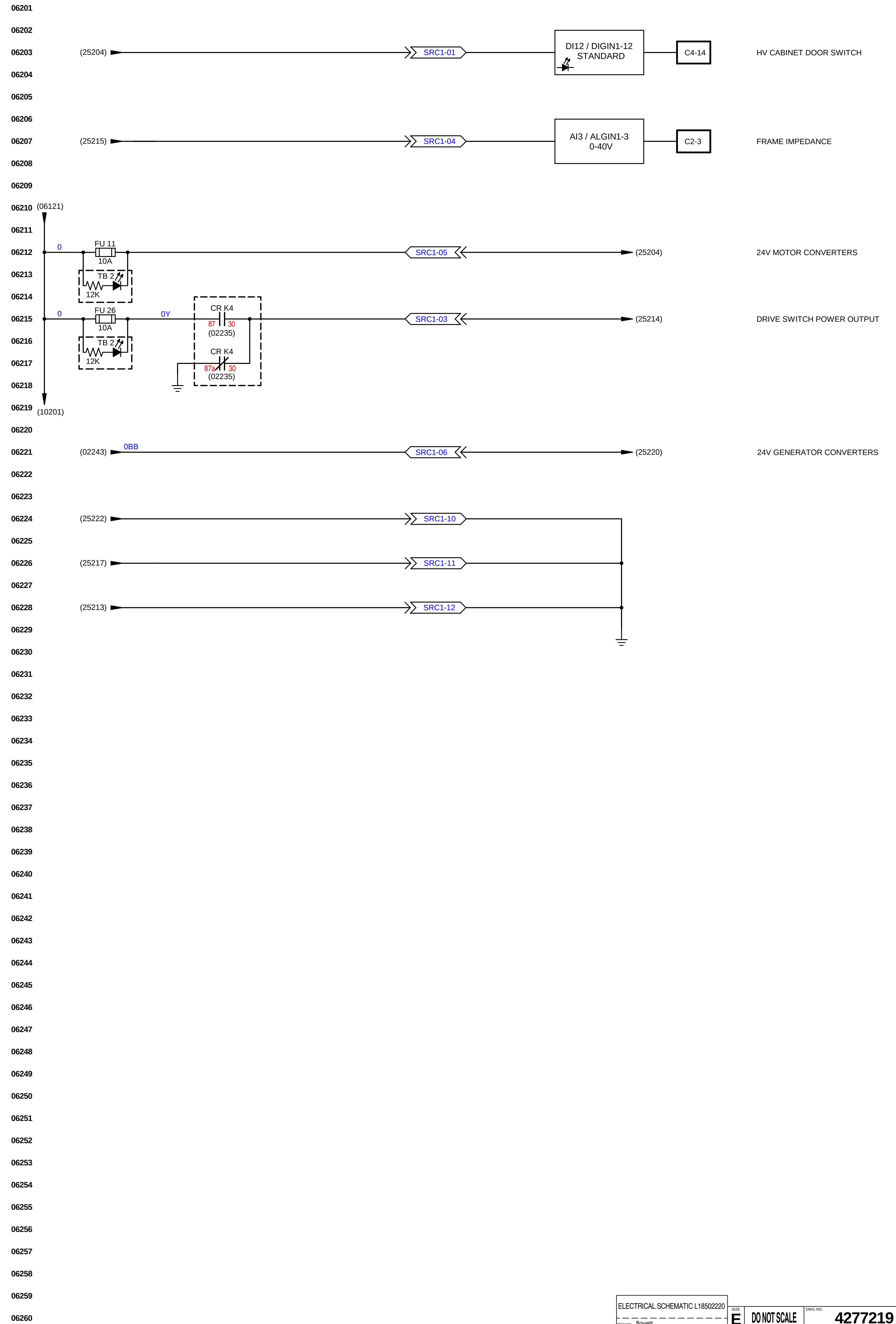
SPEED SENSORS

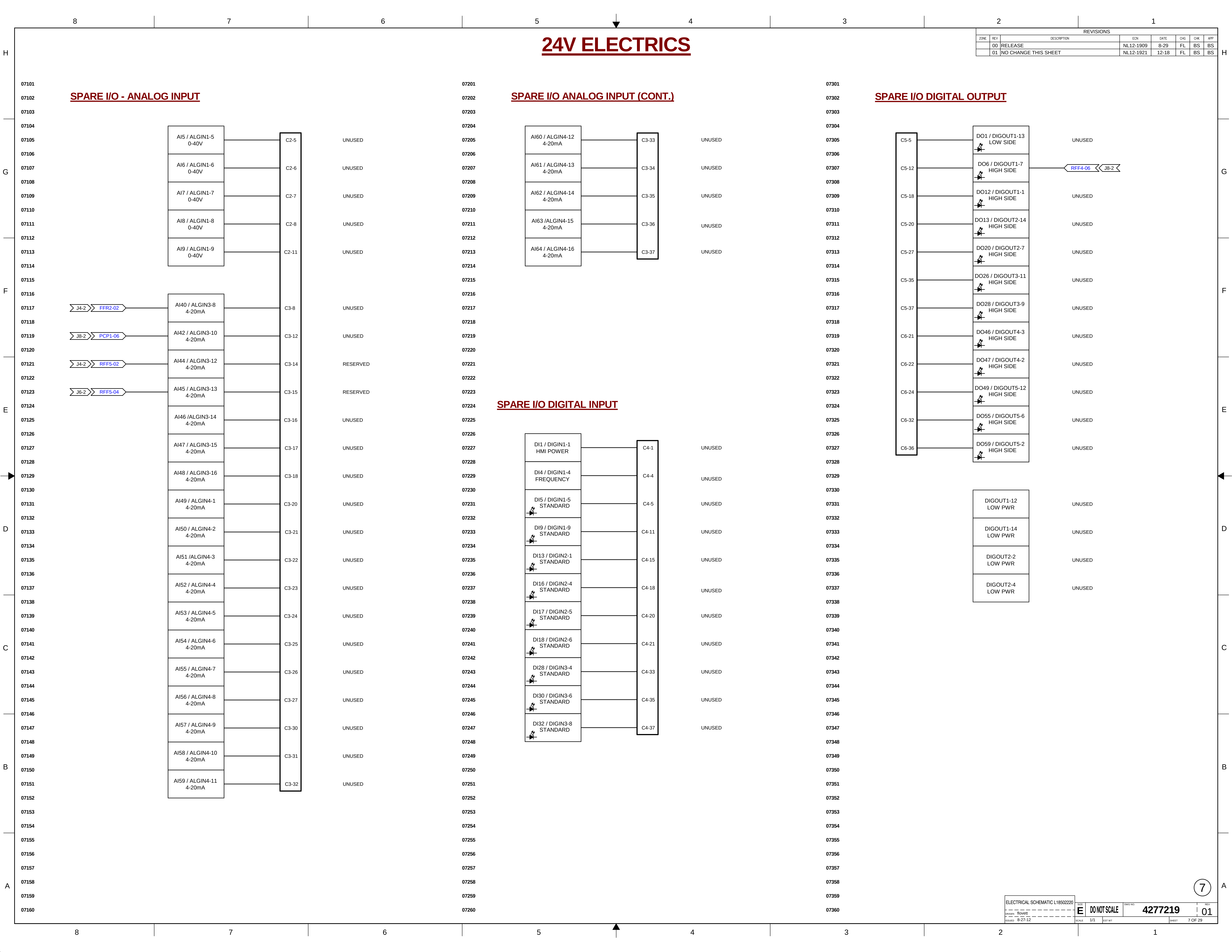


BLOWER
45 PULSES PER ROTATION
426-7540 (D4)

RADIATOR FAN
60 PULSES PER ROTATION
698-0376 (D1)

DRIVE SYSTEM INTERFACE

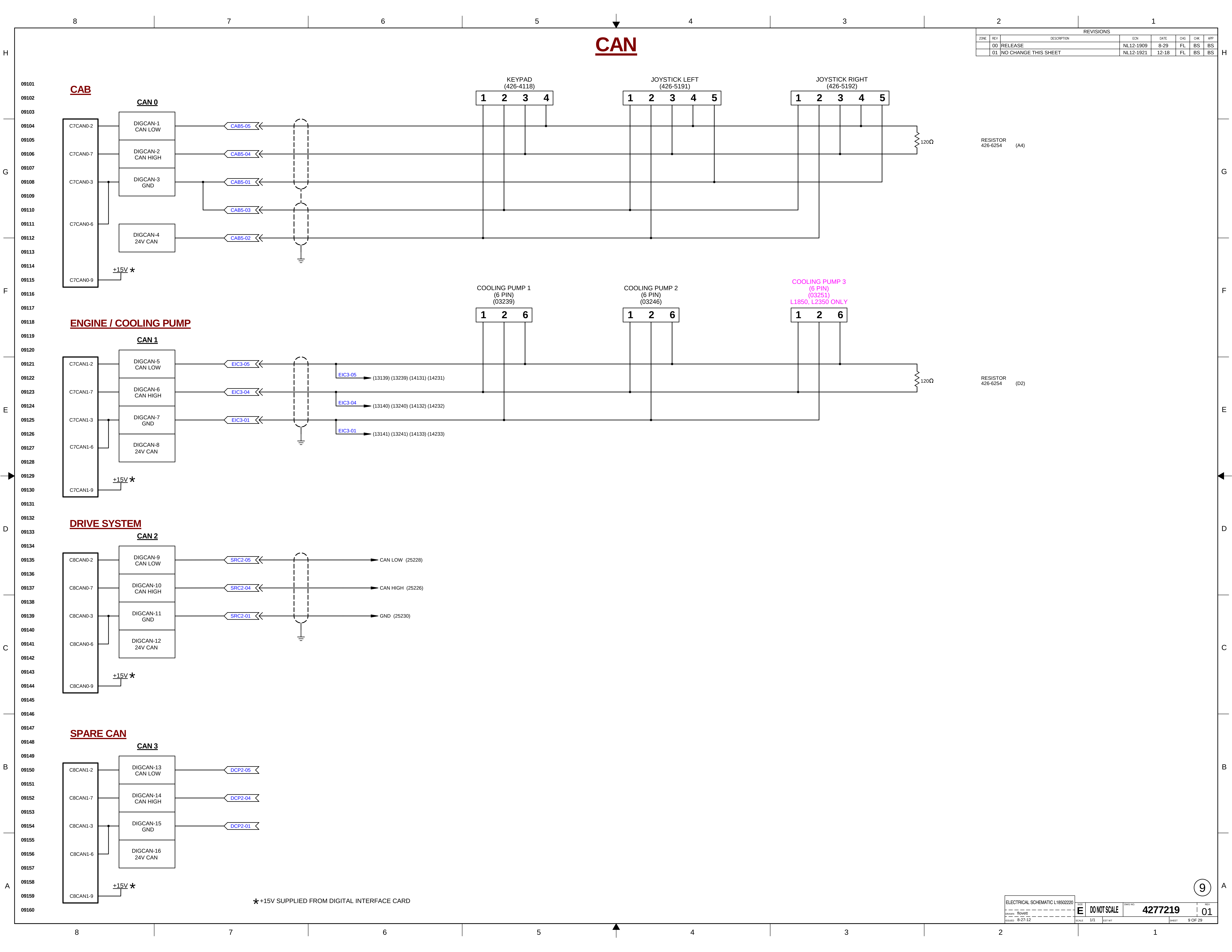






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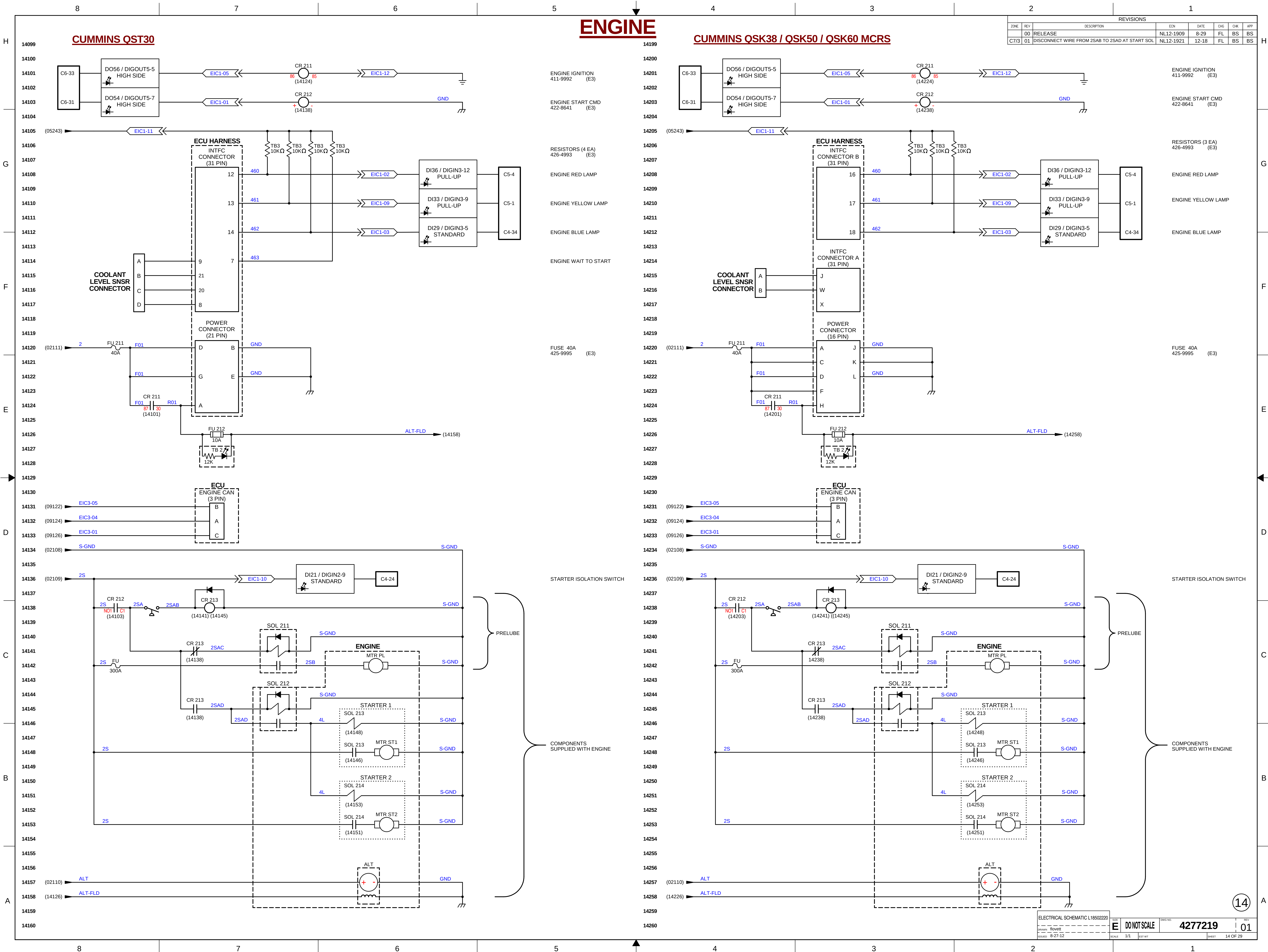
ELECTRICAL SCHEMATIC L18502220				SCALE	1/1	EST WY	SHEET	8 OF 29
DRAWN: florett ISSUED: 8-27-12				E DO NOT SCALE		DWG NO: 4277219		REV: 01





REVISIONS							
ZONE	REV	DESCRIPTION	EON	DATE	CHK	CHK	APP
	00	RELEASE	NL12-1909	8-29	FL	BS	BS
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS

ELECTRICAL SCHEMATIC L18502220				SCALE	1/1	EST WY	SHEET	12 OF 29
DRAWN: florett				DO NOT SCALE		DWG NO: 4277219		REV: 01
ISSUED: 8-27-12								



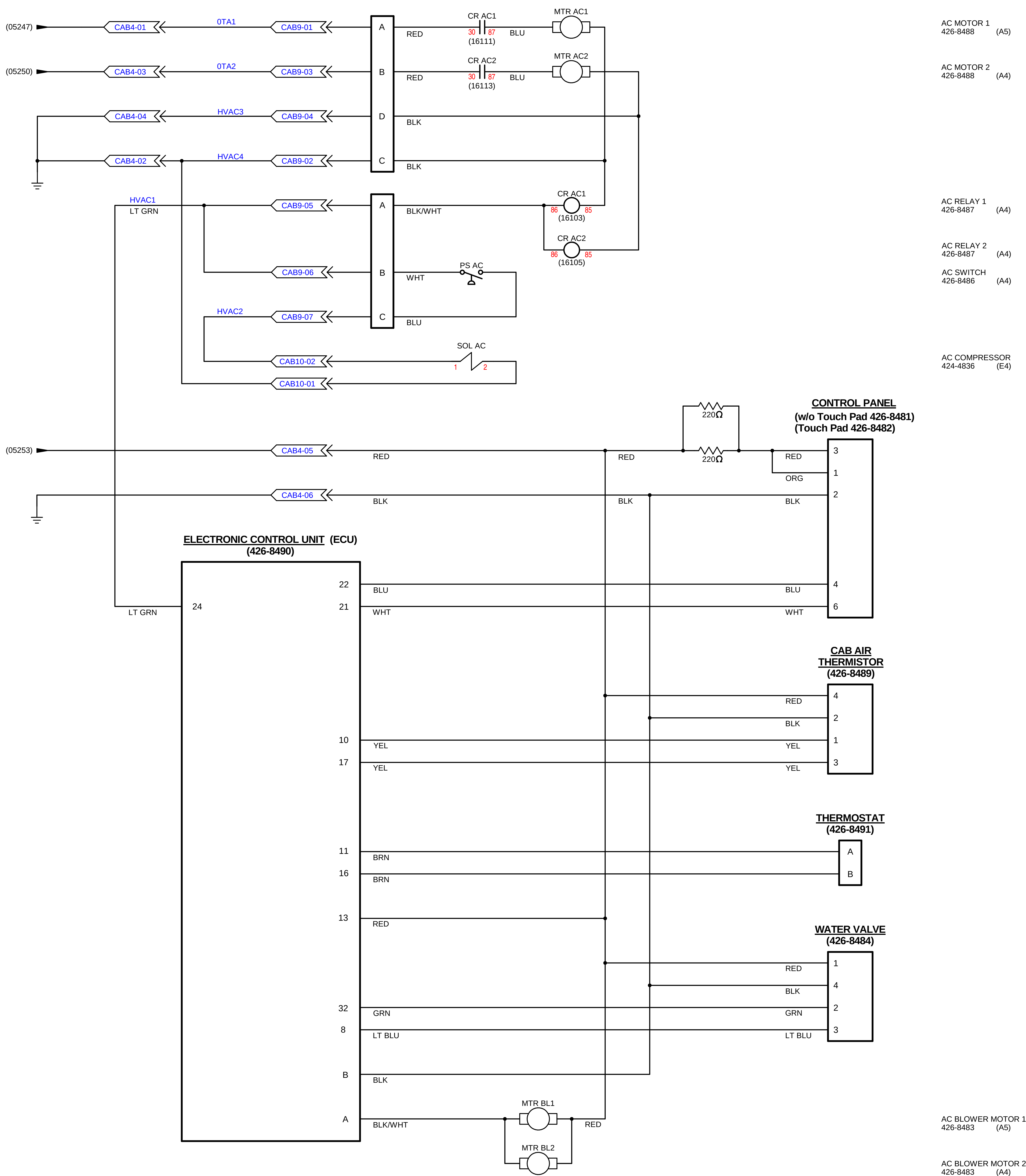


REVISIONS							
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DRAWN: florett				DO NOT SCALE		DWG NO: 4277219		REV: 01
ISSUED: 8-27-12								

CLIMATE CONTROL

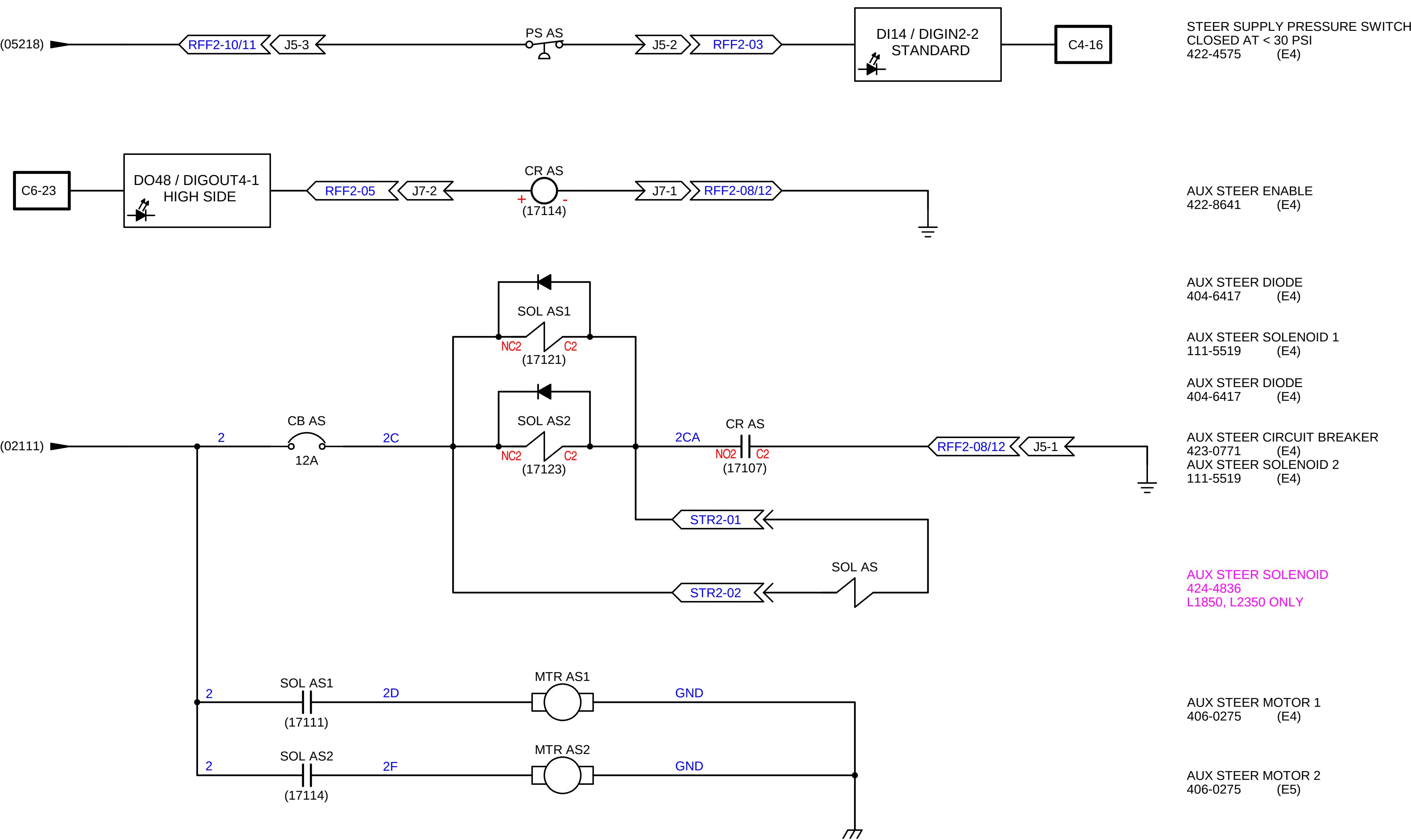
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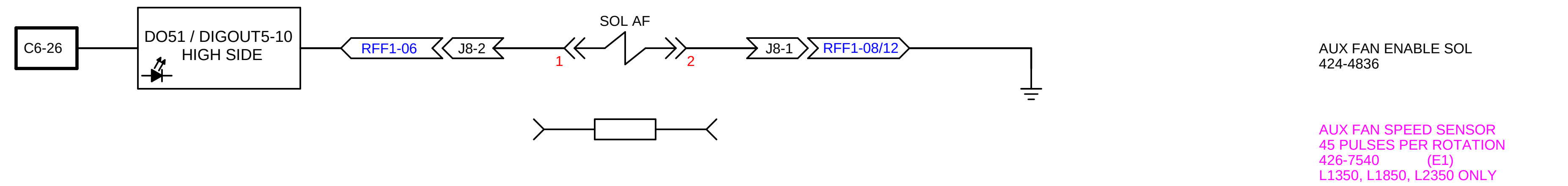
COMPONENT OPTIONS

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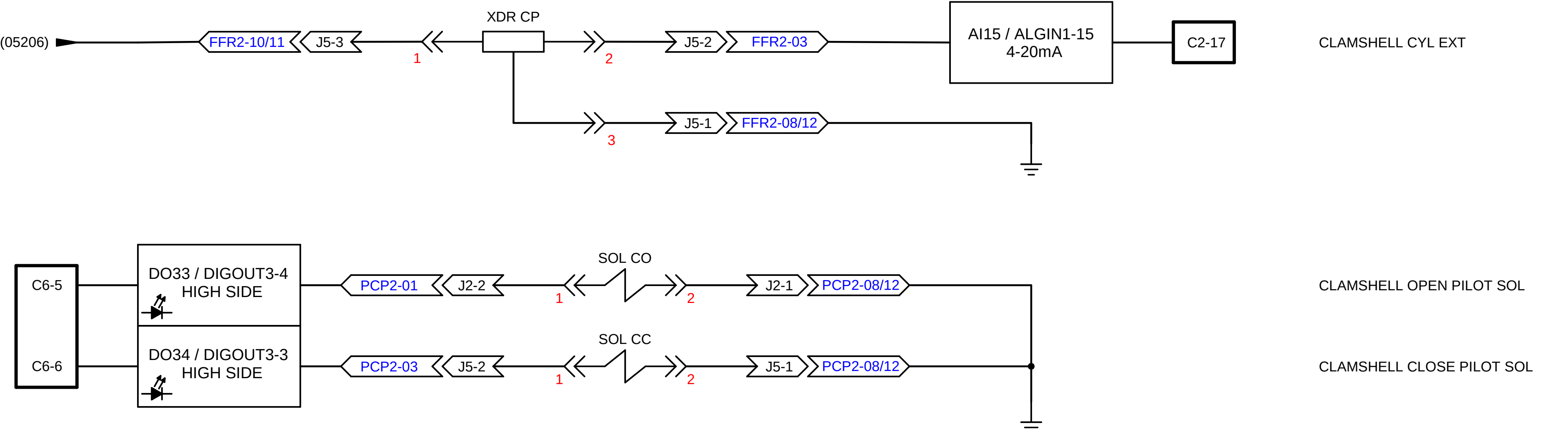
AUXILIARY STEER



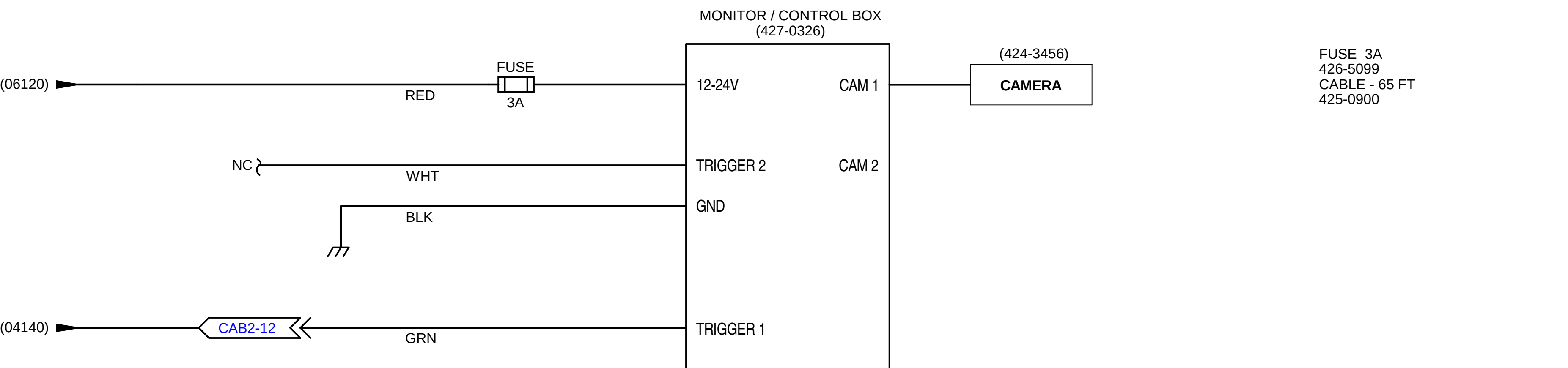
AUXILIARY OIL COOLER



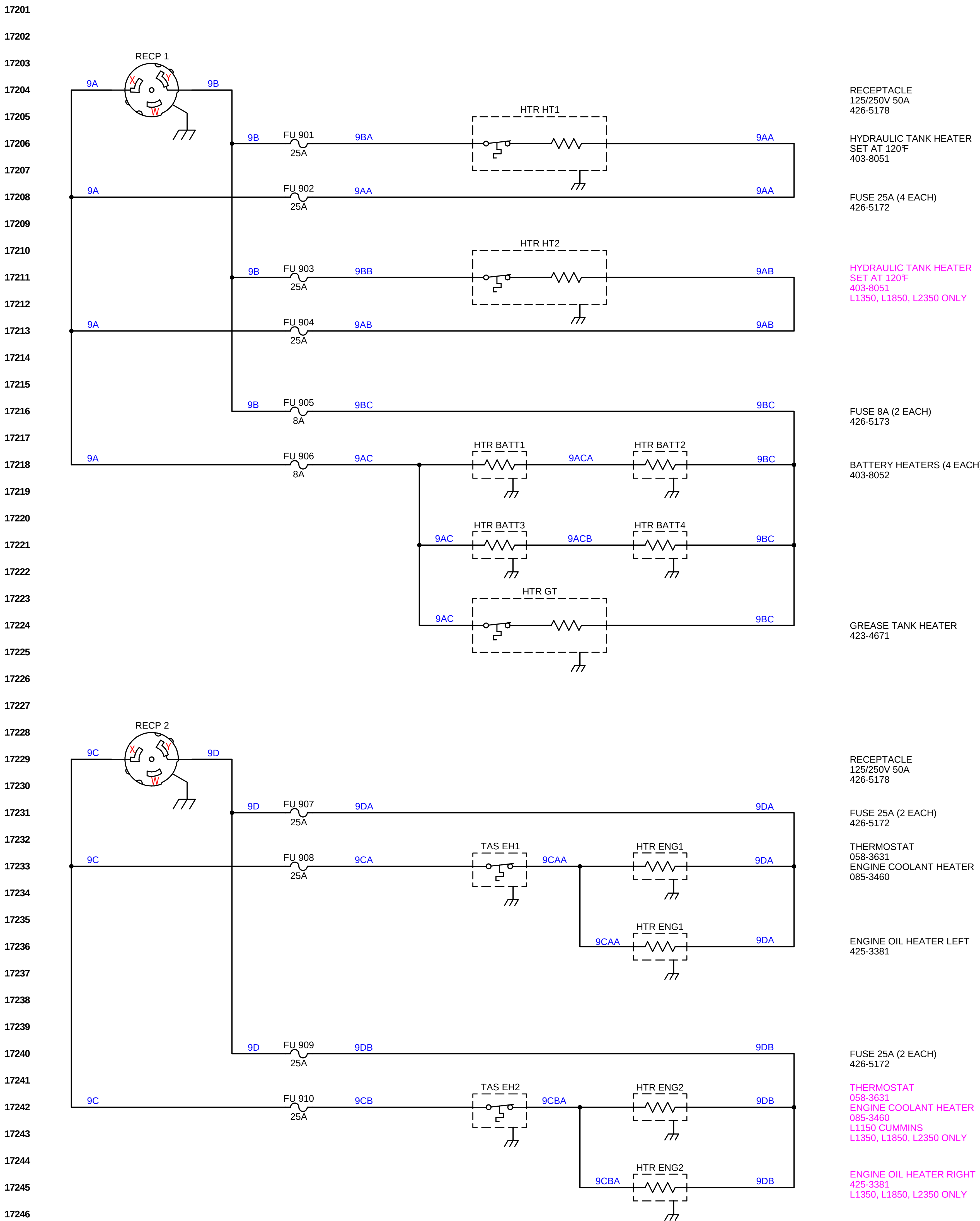
CLAMSHELL



REAR VISION CAMERA



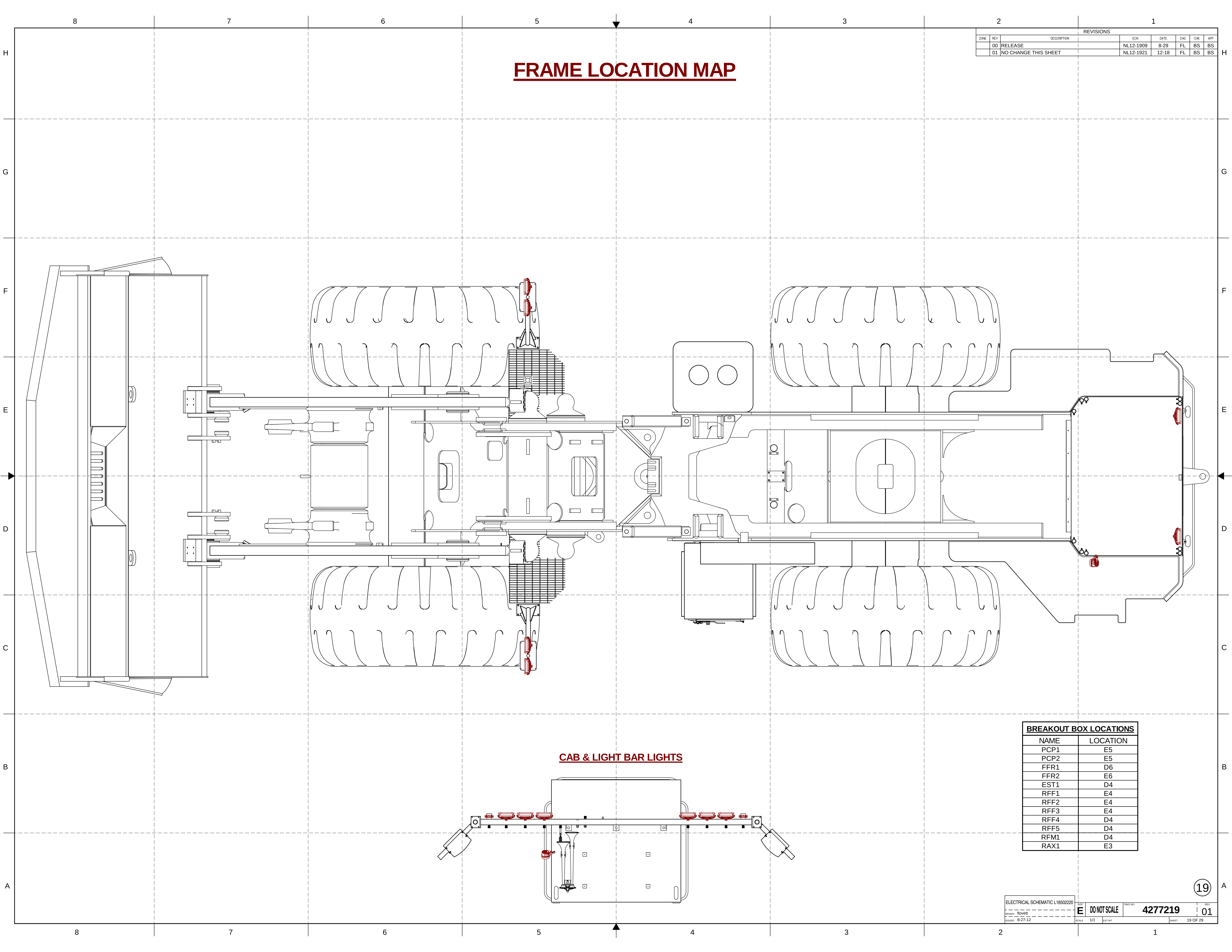
HEATERS (COLD CLIMATE)





REVISIONS							
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ELECTRICAL SCHEMATIC L18502220				SCALE	1/1	EST WY	SHEET	18 OF 29
DRAWN: florett				DO NOT SCALE		DWG NO: 4277219		REV: 01
ISSUED: 8-27-12								



FRAME LOCATION MAP

CAB & LIGHT BAR LIGHTS

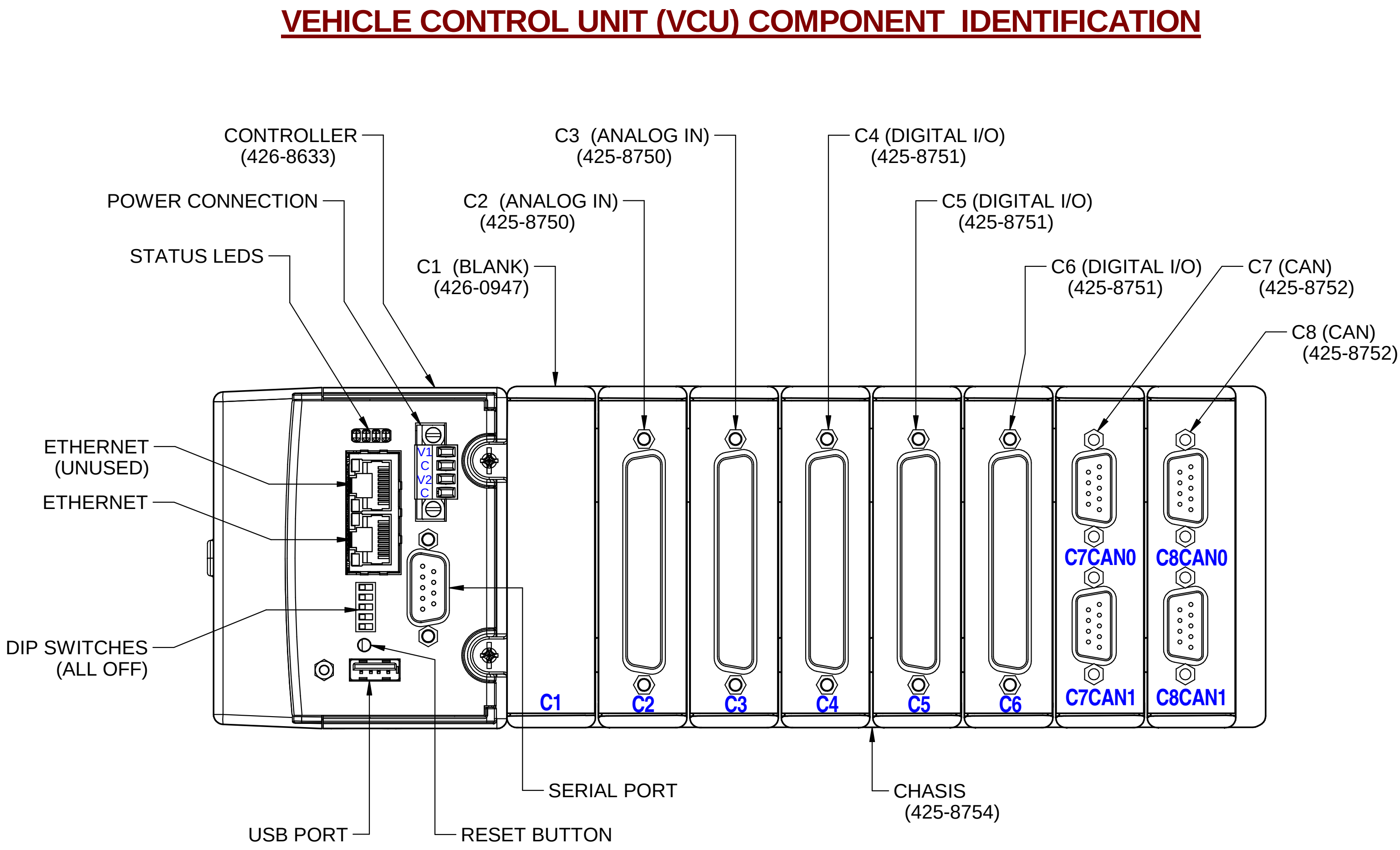
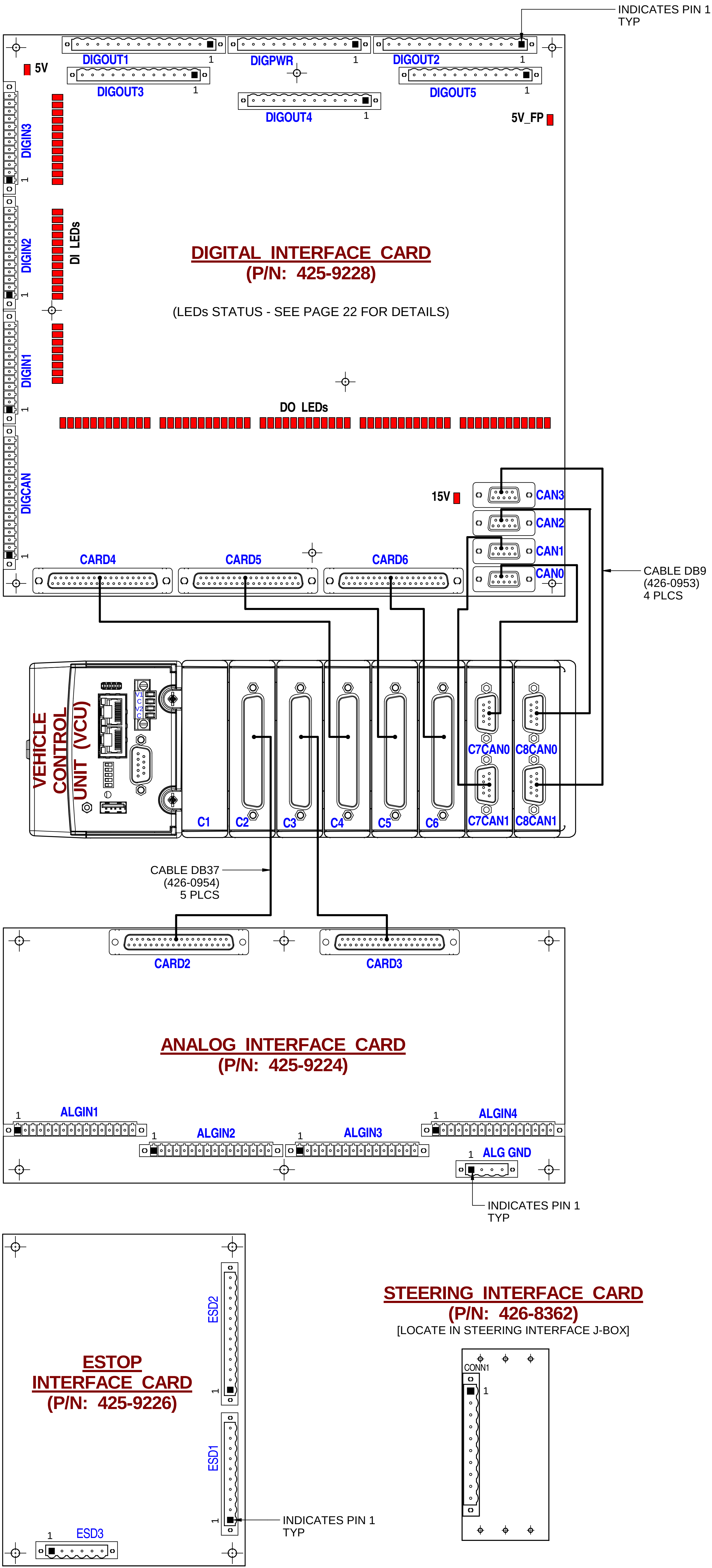
BREAKOUT BOX LOCATIONS	
NAME	LOCATION
PCP1	E5
PCP2	E5
FFR1	D6
FFR2	E6
EST1	D4
RFF1	E4
RFF2	E4
RFF3	E4
RFF4	D4
RFF5	D4
RFM1	D4
RAX1	E3

		REVISIONS						
ZONE	REV	DESCRIPTION	EON	DATE	CHG	CHK	APP	
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	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS	

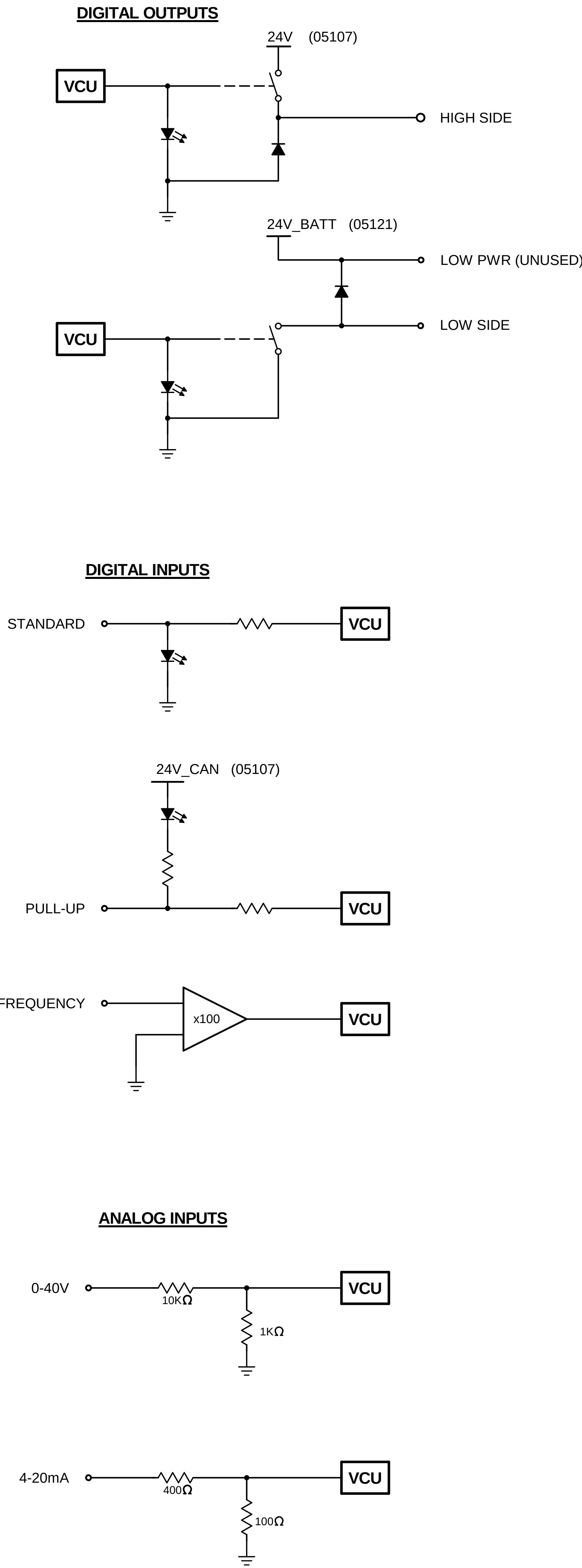
ELECTRICAL SCHEMATIC L18502220		SCALE	1/1	EST WY	DWG NO	4277219	REV	01
DRAWN: florett		ISSUED: 8-27-12		SHEET		19 OF 29		

REFERENCE INFORMATION

REVISIONS									
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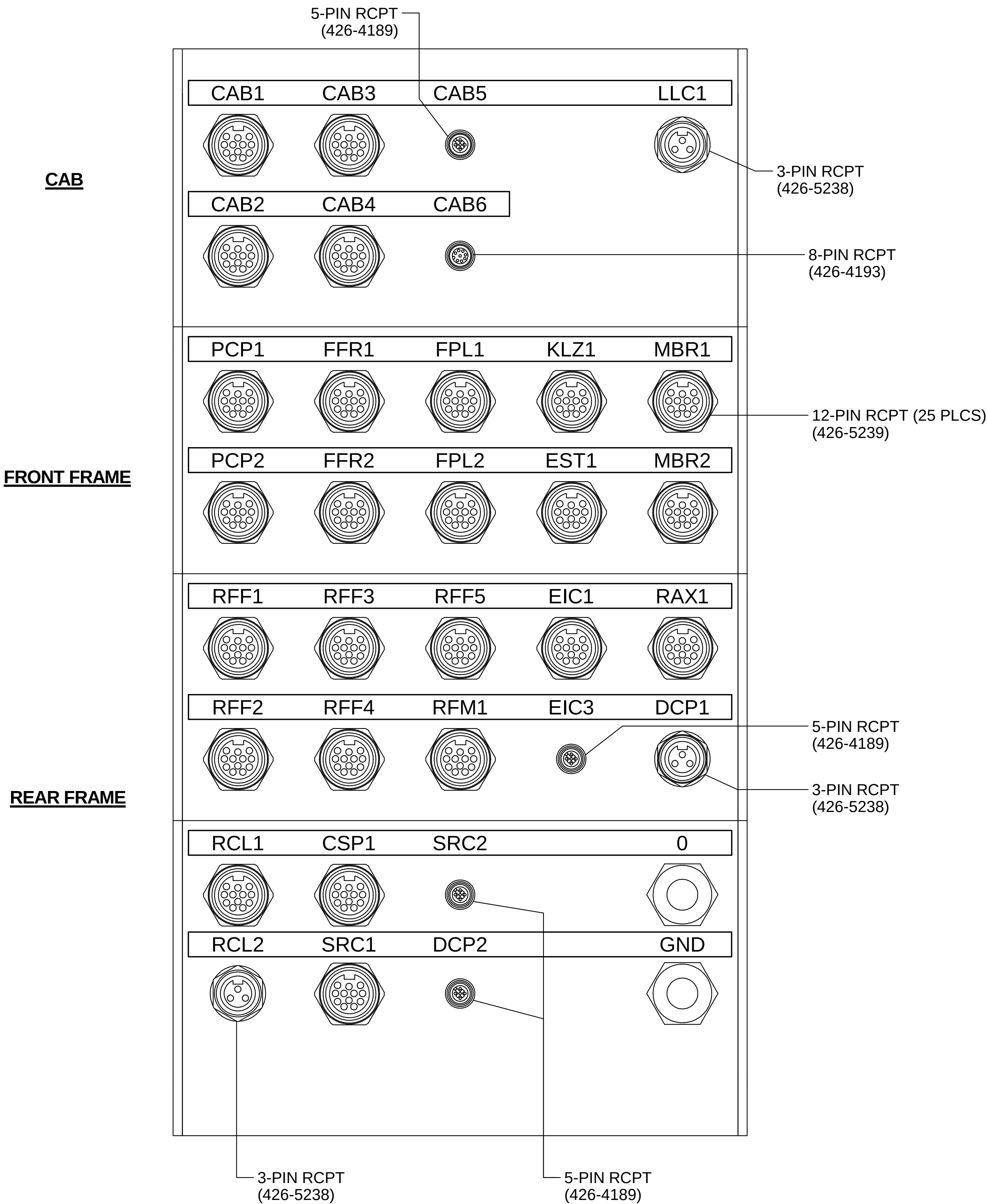
I/O EQUIVALENT CIRCUITS



REFERENCE INFORMATION

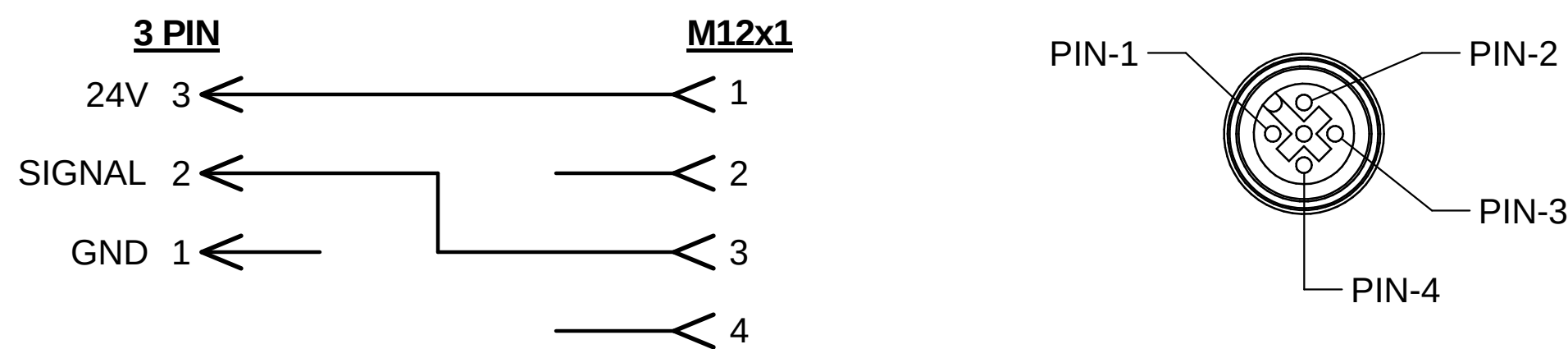
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	00	RELEASE	NL12-1909	8-29	FL	BS	BS
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS

CONNECTOR INDENTIFICATION
BACK PANEL CONNECTOR
LOW VOLT CONTROL CABINET (LVCC) (425-8773)

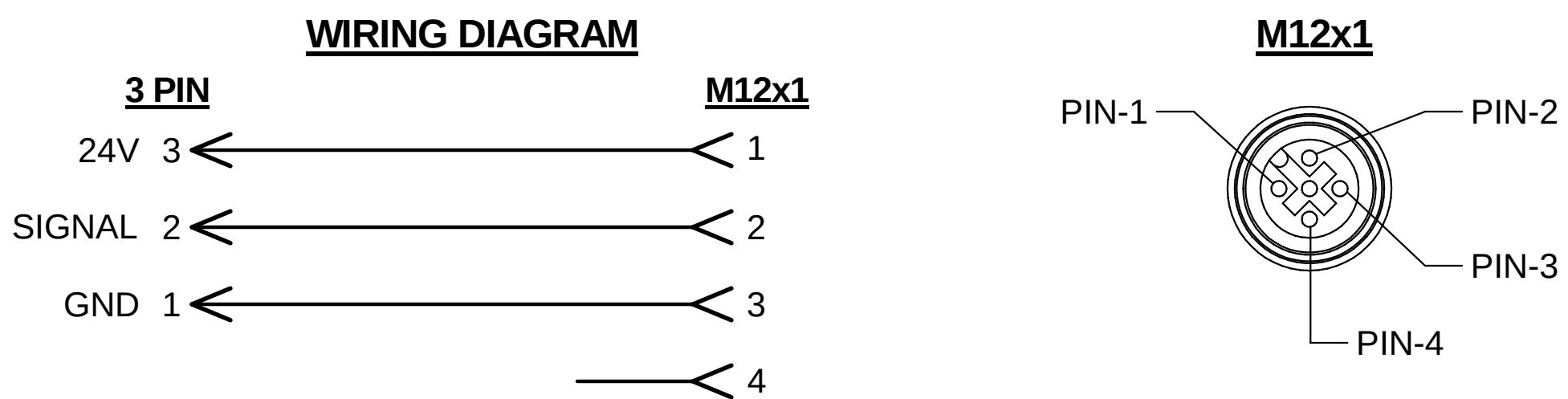


COMMON CABLES

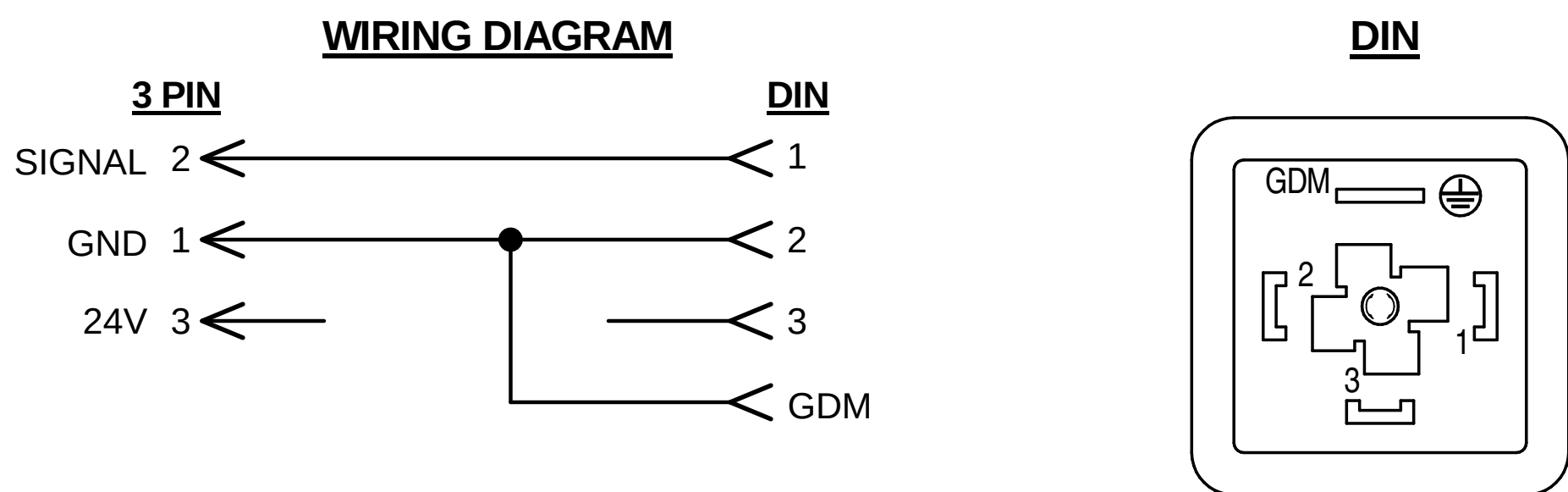
CABLE 3 PIN - M12x1 (GRAY)
(426-5234)



CABLE 3 PIN - M12x1 3 CONDUCTOR (YELLOW)
(426-7338)

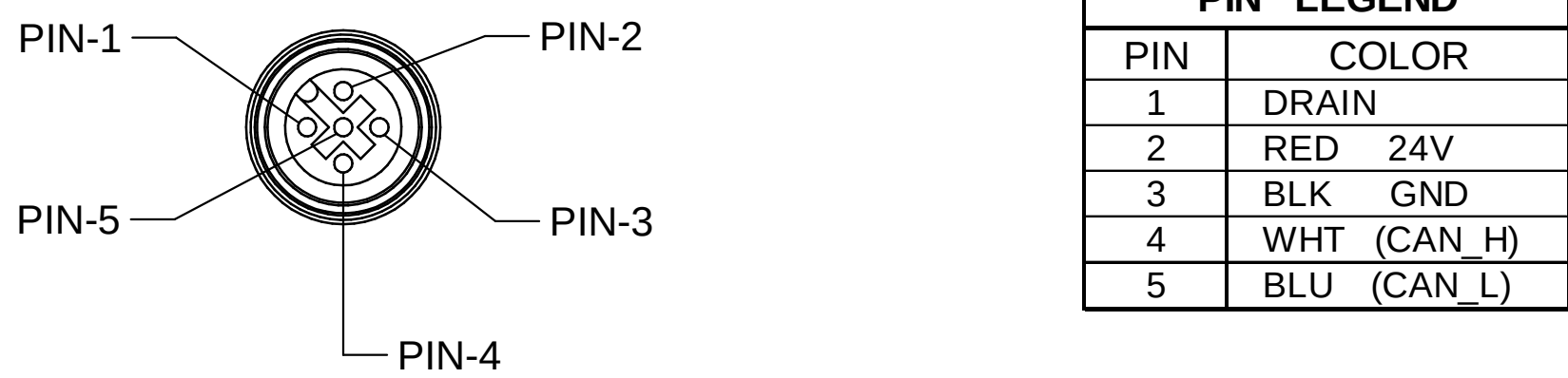


CABLE 3 PIN - DIN (YELLOW)
(426-5233)

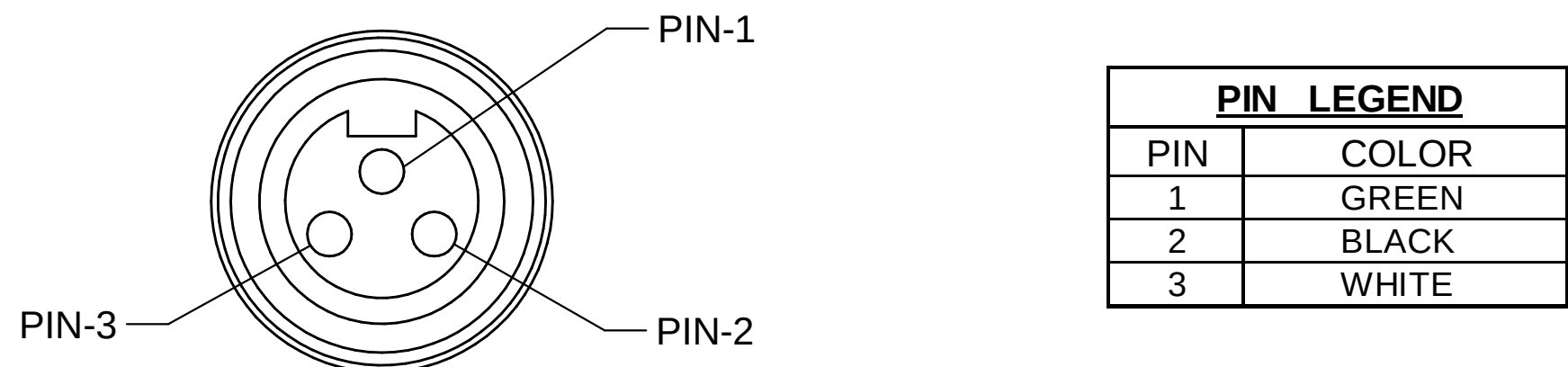


CONNECTOR COLOR CODES

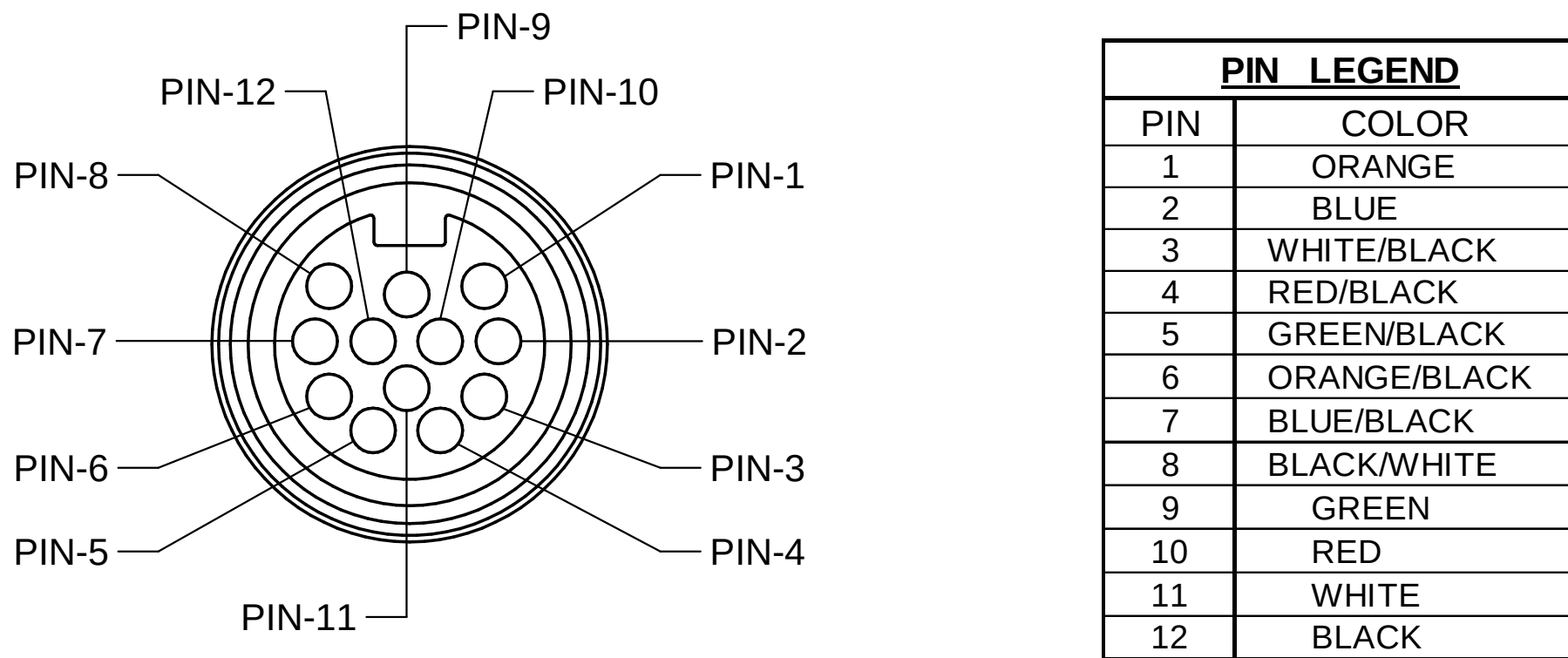
5 PIN FEMALE CAN RECEPTACLE



3 PIN FEMALE RECEPTACLE



12 PIN FEMALE RECEPTACLE



FOR ADDITIONAL CABLES:

ALL MODELS	ASSY CAB WITH ELECTRICS	425-8779
L950	GP HARNESS FRONT FRAME	426-2778
	GP HARNESS REAR FRAME	----
L1150	GP HARNESS FRONT FRAME	426-2778
	GP HARNESS REAR FRAME	426-2779
L1350	GP HARNESS FRONT FRAME	426-6313
	GP HARNESS REAR FRAME	426-6314
L1850	GP HARNESS FRONT FRAME	426-6332
	GP HARNESS REAR FRAME	426-6333
L2350	GP HARNESS FRONT FRAME	426-6363
	GP HARNESS REAR FRAME	426-6364

REVISIONS								
ZONE	REV	DESCRIPTION	EON	DATE	CHG	CHK	APP	
	00	RELEASE	NL12-1909	8-29	FL	BS	BS	
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS	

BREAKOUT BOXES I/O

FFR1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
FFR1-J1	FFR1-07	AUTO LUBE SWITCHES	FFR1-J2	FFR1-01	UNUSED
FFR1-J3	FFR1-09	MAINTENANCE LIGHT LEFT FRONT	FFR1-J4	FFR1-02	FRONT SERVICE BRAKES XDCR
FFR1-J5	FFR1-03	AUTO LUBE SOL	FFR1-J6	FFR1-04	FRONT PARK BRAKES XDCR
FFR1-J7	FFR1-05	UNUSED	FFR1-J8	FFR1-06	FRONT PARK BRAKES SOL

FFR2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
FFR2-J1	FFR2-07	LIFT ARM POSITION XDCR	FFR2-J2	FFR2-01	MAINTENANCE LIGHT RIGHT FRONT
FFR2-J3	FFR2-09	BELLCRANK TO LIFT ARM XDCR	FFR2-J4	FFR2-02	UNUSED
FFR2-J5	FFR2-03	CLAMSHELL CYL EXT XDCR (OPT)	FFR2-J6	FFR2-04	UNUSED
FFR2-J7	FFR2-05	FRONT DRIVER LUBE FLOW SWITCHES	FFR2-J8	FFR2-06	UNUSED

PCP1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
PCP1-J1	PCP1-07	BUCKET ROLLBACK PILOT SOL	PCP1-J2	PCP1-01	HOIST LOWER PILOT SOL
PCP1-J3	PCP1-09	BUCKET DUMP PILOT SOL	PCP1-J4	PCP1-02	HOIST RAISE PILOT SOL
PCP1-J5	PCP1-03	UNUSED	PCP1-J6	PCP1-04	BUCKET CYL ROD XDCR
PCP1-J7	PCP1-05	UNUSED	PCP1-J8	PCP1-06	UNUSED

PCP2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
PCP2-J1	PCP2-07	GREATEST PILOT CMD XDCR	PCP2-J2	PCP2-01	CLAMSHELL OPEN PILOT SOL (OPT)
PCP2-J3	PCP2-09	HOIST CYL BASE XDCR	PCP2-J4	PCP2-02	PILOT SUPPLY XDCR
PCP2-J5	PCP2-03	CLAMSEHLL CLOSE PILOT SOL (OPT)	PCP2-J6	PCP2-04	DUMP PRESS REDUCING SOL
PCP2-J7	PCP2-05	HOIST CYL ROD XDCR	PCP2-J8	PCP2-06	FLOAT SOL

RFF1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF1-J1	RFF1-07	KLENZ RESERVOIR AIR XDCR	RFF1-J2	RFF1-01	HYD TANK DUMP SOL
RFF1-J3	RFF1-09	UNUSED	RFF1-J4	RFF1-02	UNUSED
RFF1-J5	RFF1-03	HYD RESERVOIR OIL TEMP XDCR	RFF1-J6	RFF1-04	STEER POSITION XDCR
RFF1-J7	RFF1-05	HYD RESERVOIR LEVEL SWITCH	RFF1-J8	RFF1-06	AUX FAN ENABLE SOL (OPT)

RFF2

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF2-J1	24V ONLY	AIR DRYER HEATER	RFF2-J2	RFF2-01	RADIATOR FAN CONTROL SOL
RFF2-J3	RFF2-09	UNUSED	RFF2-J4	RFF2-02	MAINTENANCE LIGHT MIDDLE RIGHT
RFF2-J5	RFF2-03	* AUX STEER SUPPLY PRESS SWITCH (OPT)	RFF2-J6	RFF2-04	STEER LEFT OUTPUT
RFF2-J7	RFF2-05	* AUX STEER ENABLE (OPT)	RFF2-J8	RFF2-06	STEER RIGHT OUTPUT

RFF3

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF3-J1	RFF3-07	HOIST/BUCKET PUMP C XDCR	RFF3-J2	RFF3-01	ACCESSORY PUMP XDCR
RFF3-J3	RFF3-09	HOIST/BUCKET PUMP B XDCR	RFF3-J4	RFF3-02	STEER PUMP A XDCR
RFF3-J5	RFF3-03	HOIST/BUCKET PUMP A XDCR	RFF3-J6	RFF3-04	STEER PUMP B XDCR
RFF3-J7	RFF3-05	FAST HOIST PUMP XDCR	RFF3-J8	RFF3-06	HYD OIL COOLER BYPASS SOL

RFF4

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF4-J1	RFF4-07	SYSTEM AIR PRESS XDCR	RFF4-J2	RFF4-01	HPD GEARBOX TEMP XDCR
RFF4-J3	RFF4-09	RADIATOR FAN PUMP PRESS XDCR	RFF4-J4	RFF4-02	HPD GEARBOX PRESS XDCR
RFF4-J5	RFF4-03	BLOWER PUMP PRESS XDCR	RFF4-J6	RFF4-04	HYD RESERVOIR AIR PRESS XDCR
RFF4-J7	RFF4-05	BLOWER SPEED SENSOR	RFF4-J8	RFF4-06	UNUSED

RFF5

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFF5-J1	RFF5-07	FRONT WASHER PUMP	RFF5-J2	RFF5-01	AMBIENT AIR TEMPERATURE XDCR
RFF5-J3	RFF5-09	REAR WASHER PUMP	RFF5-J4	RFF5-02	L TO R ANGLE (DOZER)
RFF5-J5	RFF5-03	UNUSED	RFF5-J6	RFF5-04	F TO R ANGLE (DOZER)
RFF5-J7	RFF5-05	BLOWER SPEED CONTROL SOL	RFF5-J8	RFF5-06	UNUSED

EST1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
EST1-J1	EST1-07	RIGHT REAR E-STOP SWITCH	EST1-J2	EST1-01	LEFT REAR E-STOP SWITCH
EST1-J3	EST1-09	HV CABINET E-STOP SWITCH	EST1-J4	EST1-02	HYD RESERVOIR E-STOP SWITCH
EST1-J5	EST1-03	CAB E-STOP SWITCH	EST1-J6	EST1-04	FIRE SYSTEM STATUS
EST1-J7	EST1-05	UNUSED	EST1-J8	EST1-06	UNUSED

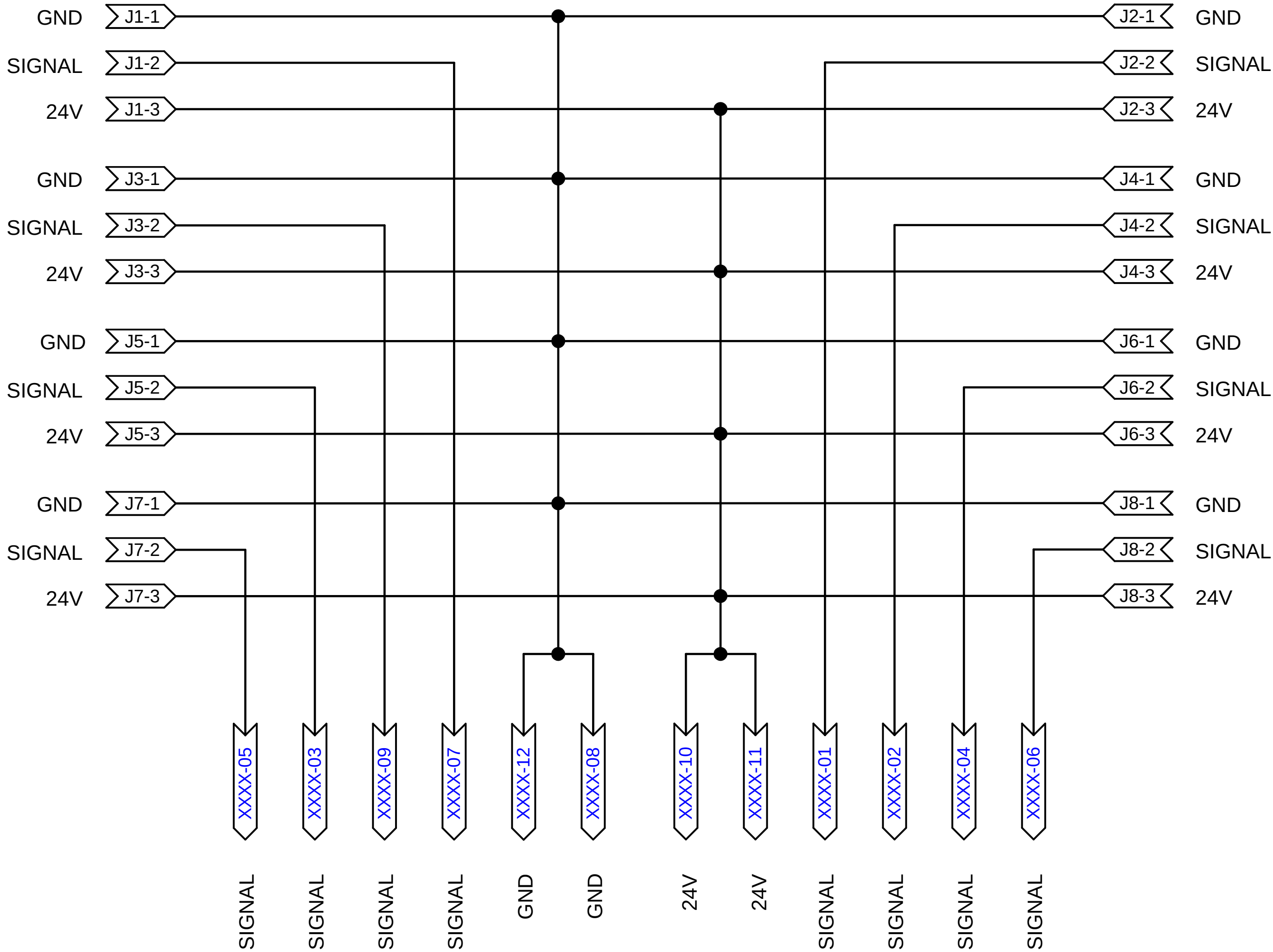
RAX1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RAX1-J1	RAX1-07	REAR DRIVER LUBE FLOW SWITCHES	RAX1-J2	RAX1-01	UNUSED
RAX1-J3	RAX1-09	REAR PARK BRAKES SOL	RAX1-J4	RAX1-02	UNUSED
RAX1-J5	RAX1-03	REAR PARK BRAKES XDCR	RAX1-J6	RAX1-04	UNUSED
RAX1-J7	RAX1-05	REAR SERVICE BRAKES XDCR	RAX1-J8	RAX1-06	UNUSED

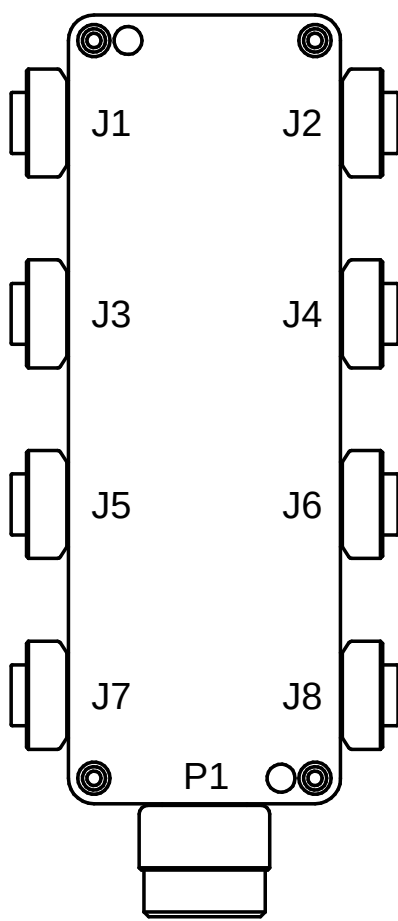
RFM1

HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION
RFM1-J1	RFM1-07	RADIATOR FAN SPEED SENSOR	RFM1-J2	RFM1-01	ENGINE SAFETY FILTER RESTRICTION
RFM1-J3	RFM1-09	MAINTENANCE LIGHT MIDDLE LEFT	RFM1-J4	RFM1-02	UNUSED
RFM1-J5	RFM1-03	UNUSED	RFM1-J6	RFM1-04	FUEL LEVEL XDCR
RFM1-J7	RFM1-05	AUTO LUBE GREASE XDCR	RFM1-J8	RFM1-06	DRIVE COOL RESERVOIR LEVEL SWITCH

BREAKOUT BOX (426-5235)



XXXX: HARNESS NAME / WIRE CODE



		REVISIONS							
ZONE	REV	DESCRIPTION	EON	DATE	CHG	CHK	APP		
	00	RELEASE	NL12-1909	8-29	FL	BS	BS		
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS		

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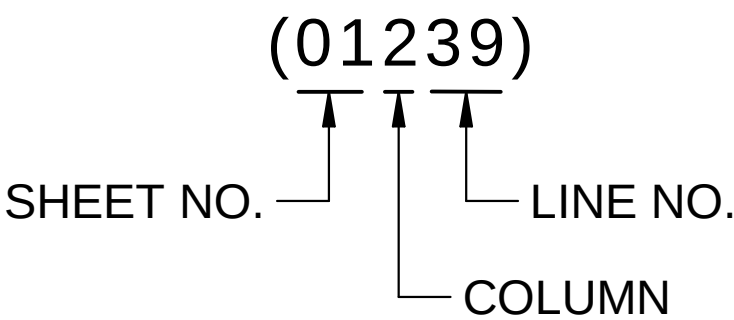
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NOTES:

1) COLOR CODE

BLUE: WIRE CODE
RED: CONNECTION PIN
ORANGE: RPT / RTD HARNESS
GREEN: M/S CONNECTION & TERMINATION
MAGENTA: POWER / CONTROL HARNESS

2) CROSS REFERENCE

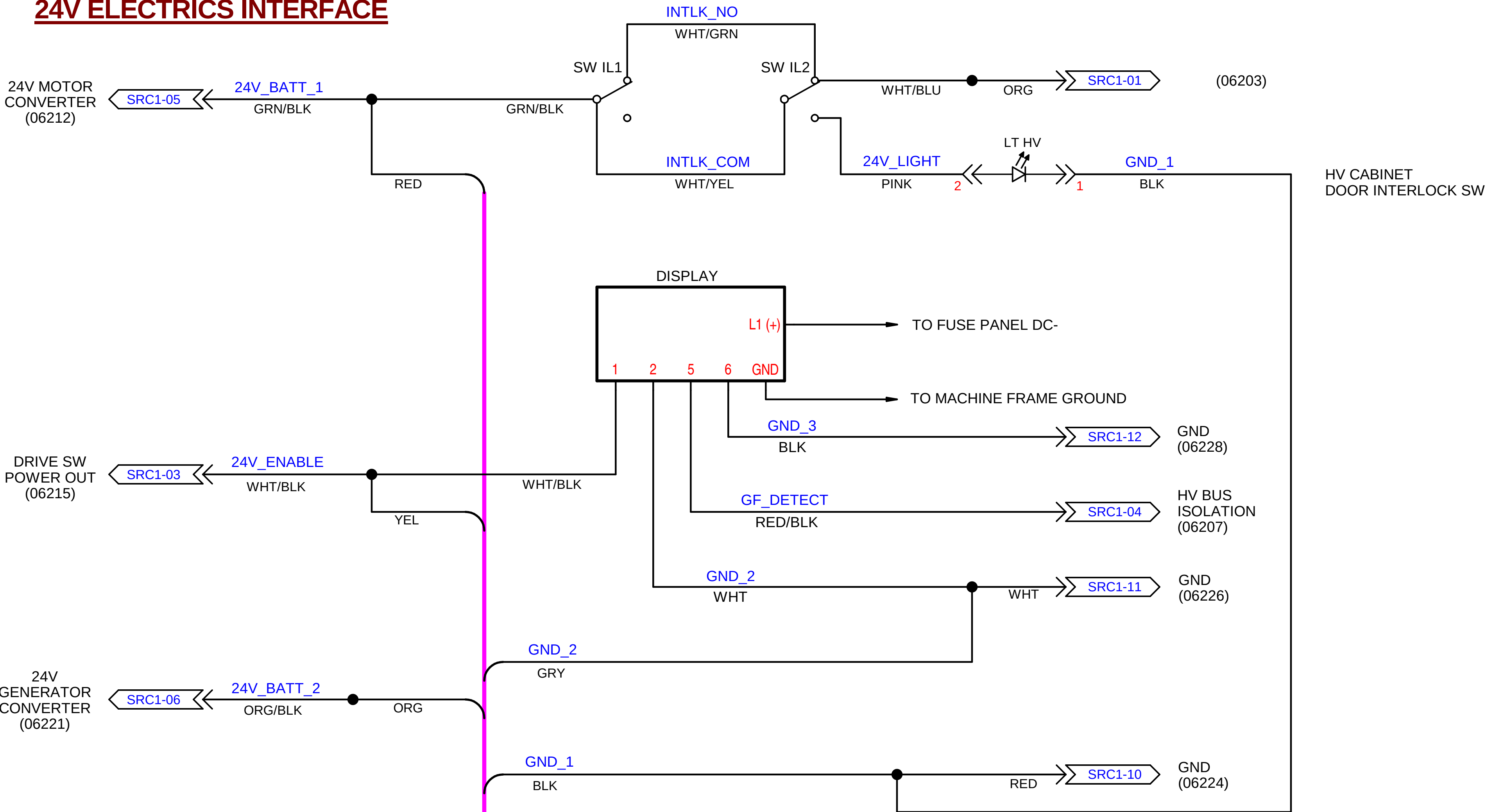


3) POWER FLOWS LEFT TO RIGHT

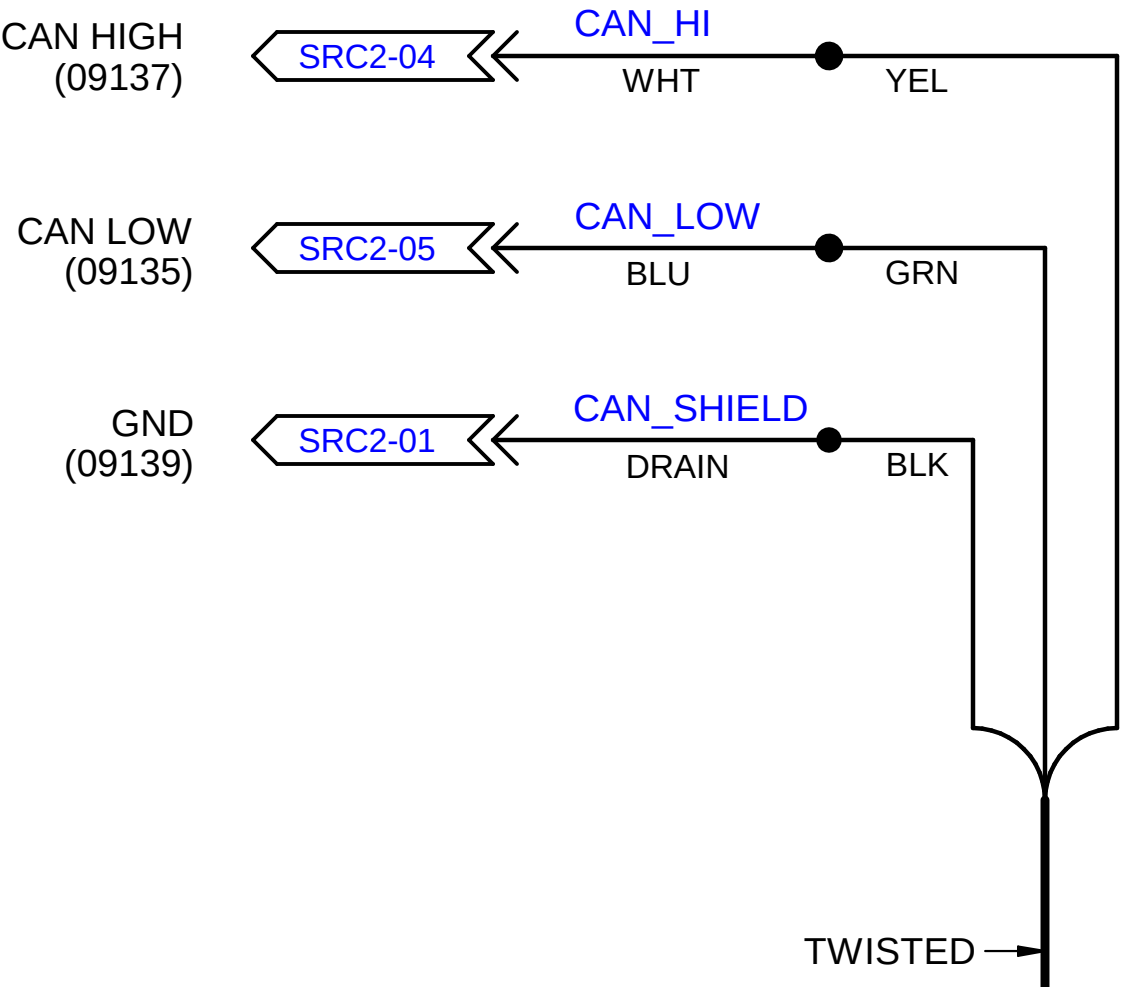
4) MACHINE STATE:

- ALL LIGHTS OFF
- FUSES NOT BLOWN
- HV CABINET DOOR CLOSED

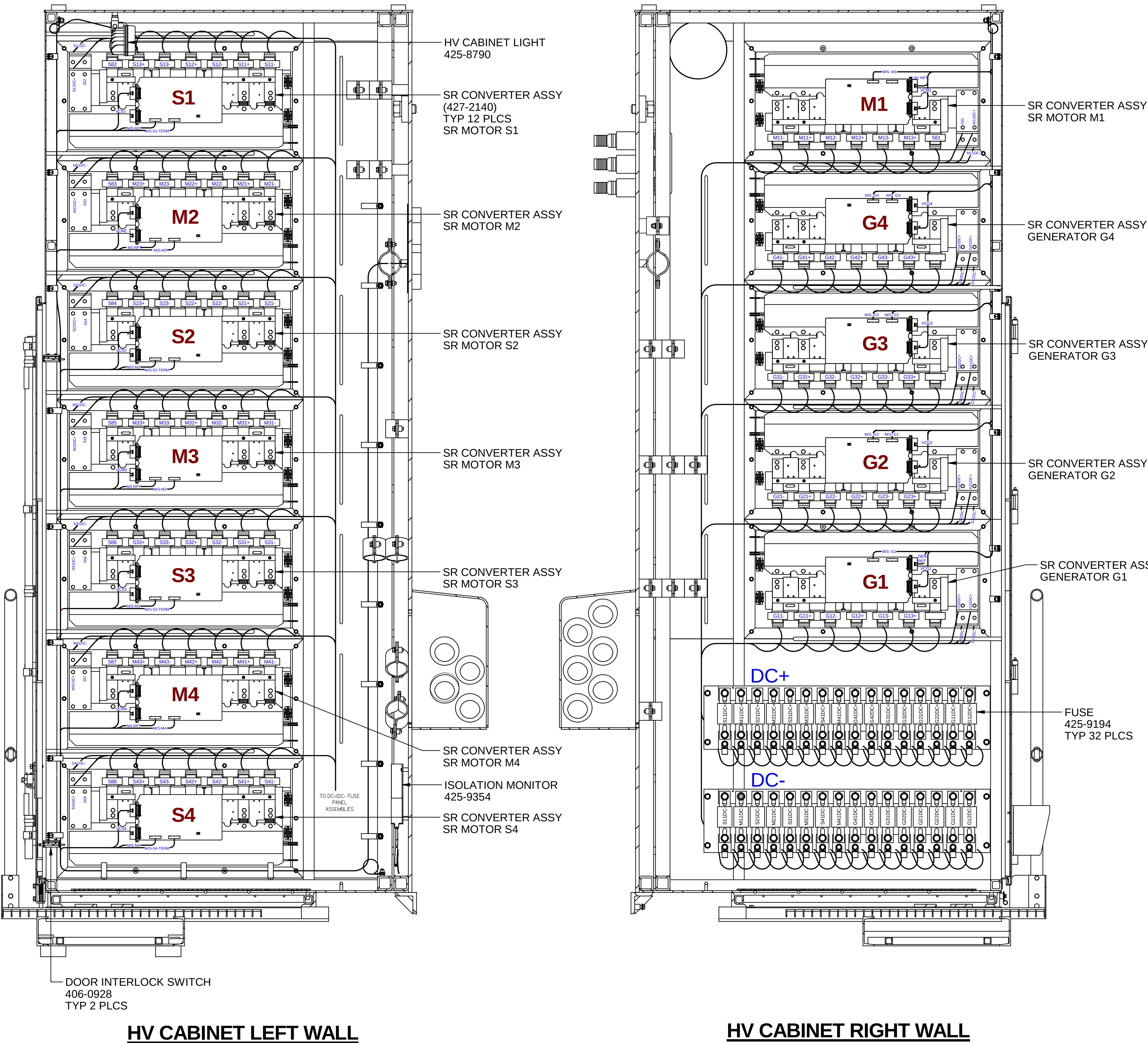
24V ELECTRICS INTERFACE



CAN INTERFACE



CONVERTER / FUSE PANELS LOCATION



G2 L1850 HV CABINET SCHEMATIC

REFERENCE INFORMATION - DRIVE SYSTEM

DRIVE SYSTEM WIRE LOCATION CHART

WIRE CODE	LINE NO.	WIRE CODE	LINE NO.	WIRE CODE	LINE NO.	WIRE CODE	LINE NO.
24V_BATT 1	25204,	DC-	26152,26252,	M/S M1	27109,27138	S21-	27225,27246
	27103,27146,		27105,27121,	M/S M1 TERM	27109	S21+	27226,27245
	27222,27246,		27128,27142,	M/S M2	27215,27238	S21DC-	27228
	28122,28146,		27204,27218,	M/S M2 TERM	27214	S21DC+	27231
	28222,28246		27228,27242,	M/S M3	28115,28138	S22-	27226,27245
			28104,28118,	M/S M3 TERM	28114	S22+	27226,27245
24V_BATT 2	25220,		28128,28142,	M/S M4	28215,28238	S23-	27226,27245
	26121,26143,		28204,28218,	M/S M4 TERM	28214	S23+	27227,27244
	26217,26240		28228,28242				
						S31-	28125,28146
24V_ENABLE	25214,	GEN RPT	26102,26202,26248	M/S G1	26223,26246	S31+	28126,28145
	26121,26143,	GF_DETECT	25215	M/S G1 TERM	26245	S31DC-	28128
	26217,26240,			M/S G2	26149,26222	S31DC+	28131
	27103,27146,			M/S G2 TERM	26222	S32-	28126,28145
	27222,27246,	GND_1	25206,25222,	M/S G3	26127,26148	S32+	28126,28145
	28122,28146,		27103,27146,	M/S G3 TERM	26148	S33-	28126,28145
	28222,28246		27222,27246,	M/S G4 TERM	26127	S33+	28127,28144
24V_LIGHT	25206		28122,28146,				
			28222,28246			S41-	28225,28246
551	27119	GND_2	25217,	M/S S1 TERM	27139	S41+	28226,28245
552	27128		26121,26143,	M/S S2 TERM	27239	S41DC-	28228
553	27204		26217,26240	M/S S3 TERM	28139	S41DC+	28231
554	27228	GND_3	25213	M/S S4 TERM	28239	S42-	28226,28245
555	28104					S42+	28226,28245
556	28128					S43-	28226,28245
557	28204					S43+	28227,28244
558	28228						
		G11-	26110,26258	M1 RPT	27112,27159		
		G11+	26110,26258	M11-	27122,27148		
		G11DC-	26241,26255	M11+	27123,27147		
581	27119	G11DC+	26243,26252	M11DC-	27105,27118	SRC1-01	25203
582	27128	G12-	26111,26258	M11DC+	27106,27115	SRC1-03	25214
583	27204	G12+	26111,26257	M12-	27123,27147	SRC1-04	25215
584	27228	G12DC-	26241,26256	M12+	27123,27147	SRC1-05	25204
585	28104	G12DC+	26242,26253	M13-	27123,27147	SRC1-06	25220
586	28128	G13-	26111,26257	M13+	27124,27146	SRC1-10	25222
587	28204	G13+	26111,26257			SRC1-11	25217
588	28228			M2 RPT	27212,27217,27259	SRC1-12	25213
				M21-	27202,27248		
CAN_HI	25226,	G21-	26112,26235	M21+	27202,27247		
	26121,26143,	G21+	26112,26235	M21DC-	27204	SRC2-01	25230
	26217,26240,	G21DC-	26218,26232	M21DC+	27207	SRC2-04	25226
	27103,27146,	G21DC+	26220,26229			SRC2-05	25228
	27222,27246,	G22-	26113,26235	M22-	27202,27247		
	28122,28146,	G22+	26113,26234	M22+	27202,27247		
	28222,28246	G22DC-	26218,26233	M23-	27203,27247		
		G22DC+	26219,26230	M23+	27203,27246		
CAN_LOW	25228,	G23-	26113,26234				
	26121,26143,	G23+	26113,26234				
	26217,26240,						
	27103,27146,						
	27222,27246,	G31-	26114,26161				
	28122,28146,	G31+	26114,26161	M3 RPT	28112,28117,28159		
	28222,28246	G31DC-	26144,26158	M31-	28102,28148		
		G31DC+	26146,26155	M31+	28102,28147		
CAN_SHIELD	25230,	G32-	26115,26161	M31DC-	28104		
	27121,27143,	G32+	26115,26160	M31DC+	28107		
	26217,26240,	G32DC-	26144,26159	M32-	28102,28147		
	27103,27146,	G32DC+	26145,26156	M32+	28102,28147		
	27222,27246,	G33-	26115,26160	M33-	28103,28147		
	28122,28146,	G33+	26115,26160	M33+	28103,28146		
	28222,28246						
CHOP_STATUS	27103, 27146,	G41-	26116,26139	M4 RPT	28212,28217,28259		
	27222,27246,	G41+	26116,26139	M41-	28202,28248		
	28122,28146,	G41DC-	26123,26136	M41+	28202,28247		
	28222,28246	G41DC+	26124,26133	M41DC-	28204		
		G42-	26116,26138	M41DC+	28207		
DC+	26151,26251,	G42+	26116,26138	M42-	28202,28247		
	27106,27120,	G42DC-	26122,26137	M42+	28202,28247		
	27131,27141,	G42DC+	26124,26135	M43-	28203,28247		
	27207,27218,	G43-	26117,26138	M43+	28203,28246		
	27231,27241,	G43+	26117,26138				
	28107,28118,						
	28131,28141,			S11-	27125,27146		
	28207,28218,	INTLK_NO	25202	S11+	27126,27145		
	28231,28241	INTLK_COM	25206	S11DC-	27128		
				S11DC+	27131		
				S12-	27126,27145		
				S12+	27126,27145		
				S13-	27126,27145		
				S13+	27127,27144		

REVISIONS							
ZONE	REV	DESCRIPTION	EON	DATE	CHK	CHK	APP
	00	RELEASE	NL12-1909	8-29	FL	BS	BS
	01	NO CHANGE THIS SHEET	NL12-1921	12-18	FL	BS	BS