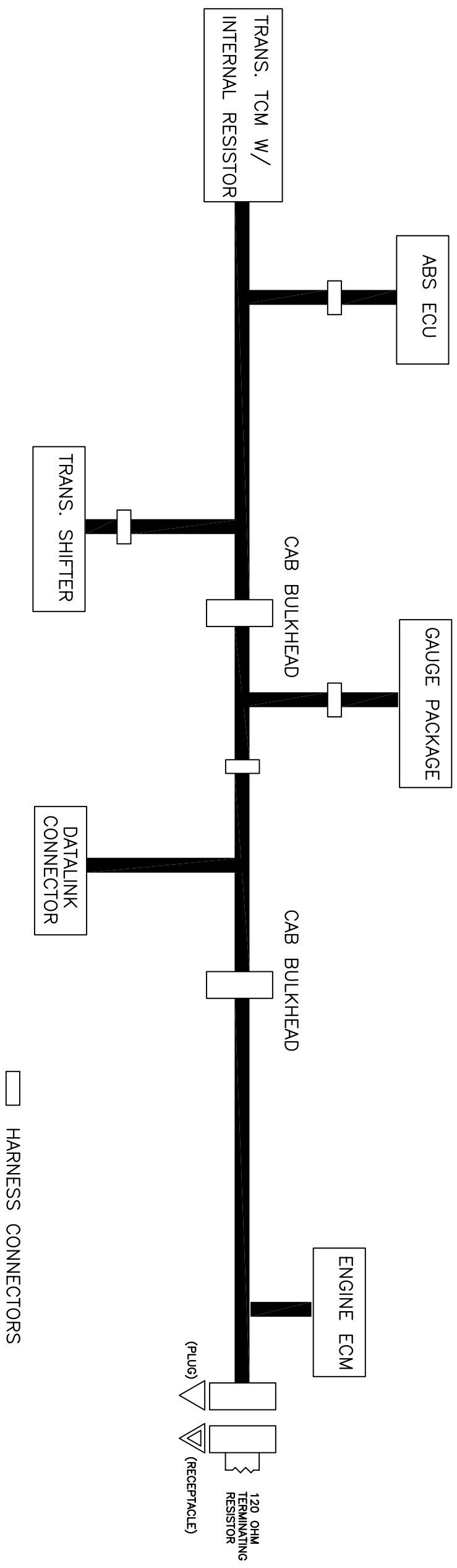


ISB02 CIRCUIT LIST

CIRCUIT #	COLOR	GAUGE	CONNECTING POINTS	FUNCTIONS	SD #
M1	WTH	16	205-A, 210-C, 250-23	ACCELELRATOR POSITION RETURN	SD323
M2	BLK/WTH	16	205-B, 210-B, 250-09	ACCELERATOR POSITION SIGNAL	SD323
M3	RED	16	206-C, 210-A, 250-22	ACCELERATOR POSITION +5VDC SUPPLY	SD323
M4	GRN	16	206-C, 210-D, 250-01	IDLE VALIDATION OFF-IDLE SIGNAL	SD323
M5	BLU	16	206-B, 210-E, 250-11	IDLE VALIDATION IDLE SIGNAL	SD323
M6	ORG	16	206-A, 210-F, 250-34	THROTTLE PEDAL GROUND-ECM RETURN	SD323
M7	BLU/WHT	16	250-39, 230-A	VEHICLE IGNITION SWITHC INPUT	SD322
M8	RED	12	208-4, 216 (30A BRKR), 12V BATTERY	ECM BATTERY (+)	SD322
M9	BLK/WHT	12	208-1, GND	ECM BLOCK/CHASIS GND	SD322
Q1	BLK/RED	16	207-A, GND	DATALINK GROUND	SD323
Q2	RED/BLK	16	207-B TO 12V HOT LEAD	DATALINK POWER	SD323
Q3	YEL	16	200-A, 210-Q, 240-46 & RESISTOR 225-A	J1939 (+) DATALINK	SD323
Q4	GRN	16	200-B, 210-R, 250-47 & RESISTOR 225-B	J1939 (-) DATALINK	SD323
Q5	VIO	16	200-C, 210-S, 250-37 & RESISTOR 225-C	J1939 DATALINK SHIELD	SD323
Q6	WHT	16	207-F, 210-0, 250-10	J1587 DATALINK (+)	SD323
Q7	BLU	16	207-G, 210-P, 250-20	J1587 DATALINK (-)	SD323
Q8	RED	14	235-A, 219 (10A BRKR), 12V BATTERY	FAN CLUTCH POWER	SD322
Q9	BLK/VIO	16	235-B, 250-29	FAN CLUTCH ECM GND	SD322
Q10	GRN/WHT	16	235-C, 250-38	FAN CLUTCH OUTPUT SIGNAL	SD322
T1	ORG	16	190 (SWITCH), 210-F, 250-34	DIAGNOSTIC ECM RETURN GND	SD325
T2	PINK	16	191 (SWITCH), 210-G, 250-02	DIAGNOSTIC ON/OFF SIGNAL	SD325
T3	YEL	16	245-A, 250-32	ECM RETURN GND	SD324
T4	VIO	16	245-B, 250-37	COOLENT SENSOR LEVEL GND	SD324
T5	GRAY	16	193 (BULB), 210-N, 250-50	WAIT TO START LAMP SIGNAL (WTS)	SD325
T6	RED	12	193, 194, 195-204	KEY SWITCH POWER (WARNING LIGHTS)	SD325
T7	BEN/WHT	16	195 (BULB), 210-M, 250-44	DIAGNOSTIC LAMP SIGNAL (WARNING)	SD325
T8	ORG/BLU	16	194 (BULB), 210-H, 250-43	STOP LAMP SIGNAL (ENGINE)	SD325
V1	WHT/BLU	16	RELAY #1 & 2, (212 & 214), 250-40	INTAKE AIR HEATER CONTROL	SD324
V2	BLK/RED	16	RELAY #1 & 2, (213 & 215), 250-42	INTAKEHEATER ECM RETURN GND	SD324

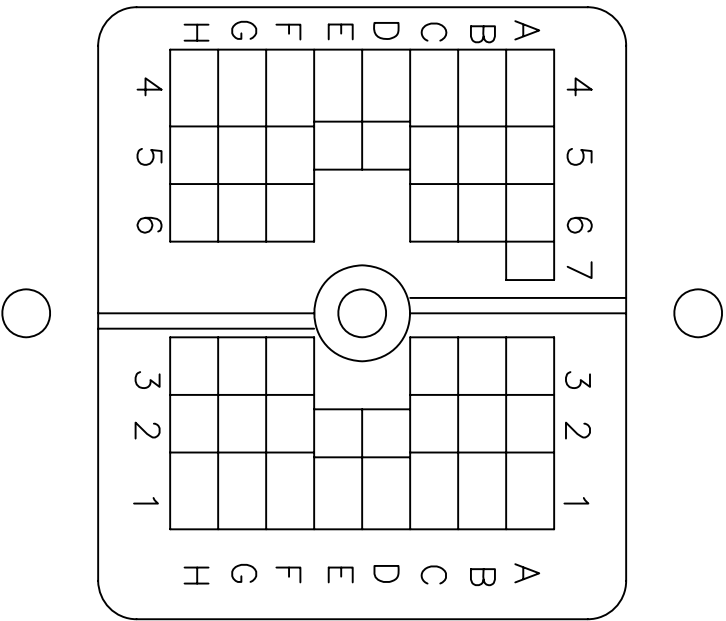


CIRCUIT LIST

CIRCUIT	CIRCUIT ID	WIRE COLOR	WIRE GA.	DRAWINGS
ALARM CIRCUITS				
REVERSE ALARM	C4		14	SD0313
LOW AIR	F6	GRY	16	SD0307
CHARGING CIRCUITS				
W/ VOLTMETER	BAT, ALT	RED, BLK	6	SD0307
CRANKING CIRCUIT SIGNAL				
STARTER RELAY SIGNAL	L11		14	SD0305
RADIO				
FUEL SOLENOID	D1	BLU/WHT	14	SD0305
GAUGE CIRCUITS				
COOLENT TEMP	G1	DKG	16	SD0306
FUEL LEVEL	H1	TAN	16	SD0307
HOUR METER	S2, GND	RED, BLK/WHT	14	SD0307
SPEEDOMETER	G2, F2	PNK/WHT, PNK/BLK	16	SD0306
TRANS TEMP.	D4	WHT/YEL	16	SD0306
GROUND CIRCUITS				
	GND	BLK/WHT	10 & 14	ALL
HEATER CIRCUITS				
A/C CLUTCH POWER	L10		14	SD0321
A/C CLUTCH POWER				
AIR SYSTEM	G4	RED/WHT	14	SD0319
CAB	L9	RED	10	SD0317
CAB HEATER-LOW	L12	YEL	14	SD0317
CAB HEATER-MED	L13	RED	14	SD0317
CAB HEATER-HIGH	L14	ORG	14	SD0317
FUEL	H2	RED/GRN	14	SD0319
MIRROR	F4	RED/BLK	14	SD0318
HORN				
	F5, HC	RED/YEL	14	SD0316
IGNITION CIRCUITS				
IGNITION POWER	S1	LBU	14	SD0305
INDICATOR CIRCUITS				
BATTERY (CHARGE)	E1	ORG/BLK	16	SD0308
BATTERY (CHARGE)	L1		14	SD0308
LOW FUEL	A1		14	SD0308
HIGH BEAM	B4	WHT	14	SD0314
LOW AIR	F6	GRY	16	SD0307
PARK BRAKE ENGAGED	H5	PNK	16	SD0308
TRANS TEMP.	C2	WHT/GRY	16	SD0306
TURN SIGNAL-LEFT	C6	YEL/BLK	16	SD0315
TURN SIGNAL-RIGHT	A6	BLU	16	SD0315

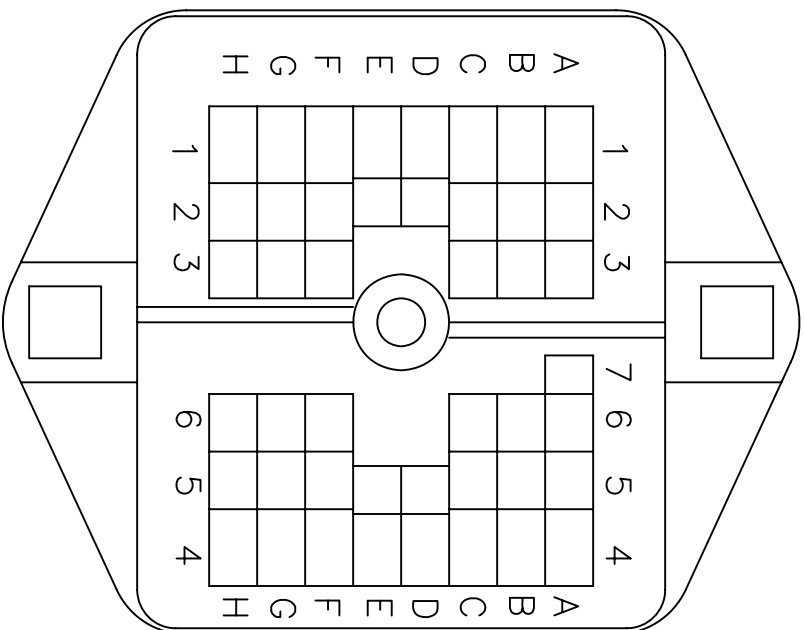
TEST VIEW

CAB BULKHEAD PLUG VIEWED FROM ENGINE COMPARTMENT

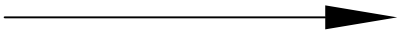


LOAD VIEW

CAB BULKHEAD PLUG VIEWED FROM CAB SIDE



FRONT



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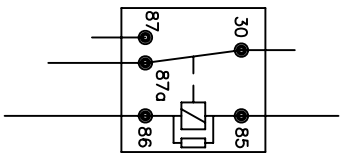
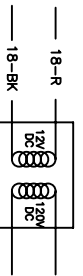

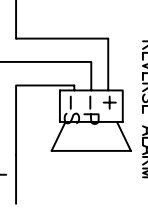
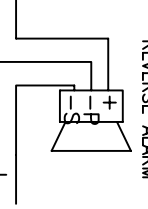


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BULKHEAD CONNECTOR
LOAD AND TEST VIEWS

DWG. NO.

SD0302

GRAPHIC SYMBOL DEFINITIONS (CONT'D)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
 SWITCH PANEL LAMP (FLUORESCENT)	FLUORESCENT LAMP (BEHIND SWITCH PANEL)		RELAY (SPDT), WITH RESISTOR SUPPRESSION
 SWITCH PANEL LAMP INVERTER	VOLTAGE CONVERTER (BEHIND SWITCH PANEL FOR FLUORESCENT LAMP)		ELECTRIC RESISTANCE HEATER
	REVERSE ALARM	WIRE COLOR CODES BLK = BLACK BLU = BLUE BRN = BROWN DKG = DARK GREEN GRY = GREY LBU = LIGHT BLUE LGN = LIGHT GREEN ORG = ORANGE RED = RED PNK = PINK TAN = TAN (LIGHT BRN OR BEIGE) VIO = VIOLET WHT = WHITE YEL = YELLOW	
	ELECTRIC HORN OR DASH AUDIO ALARM		
	LAMP OR BULB WITH IDENTIFICATION		
	LIGHT EMITTING DIODE		

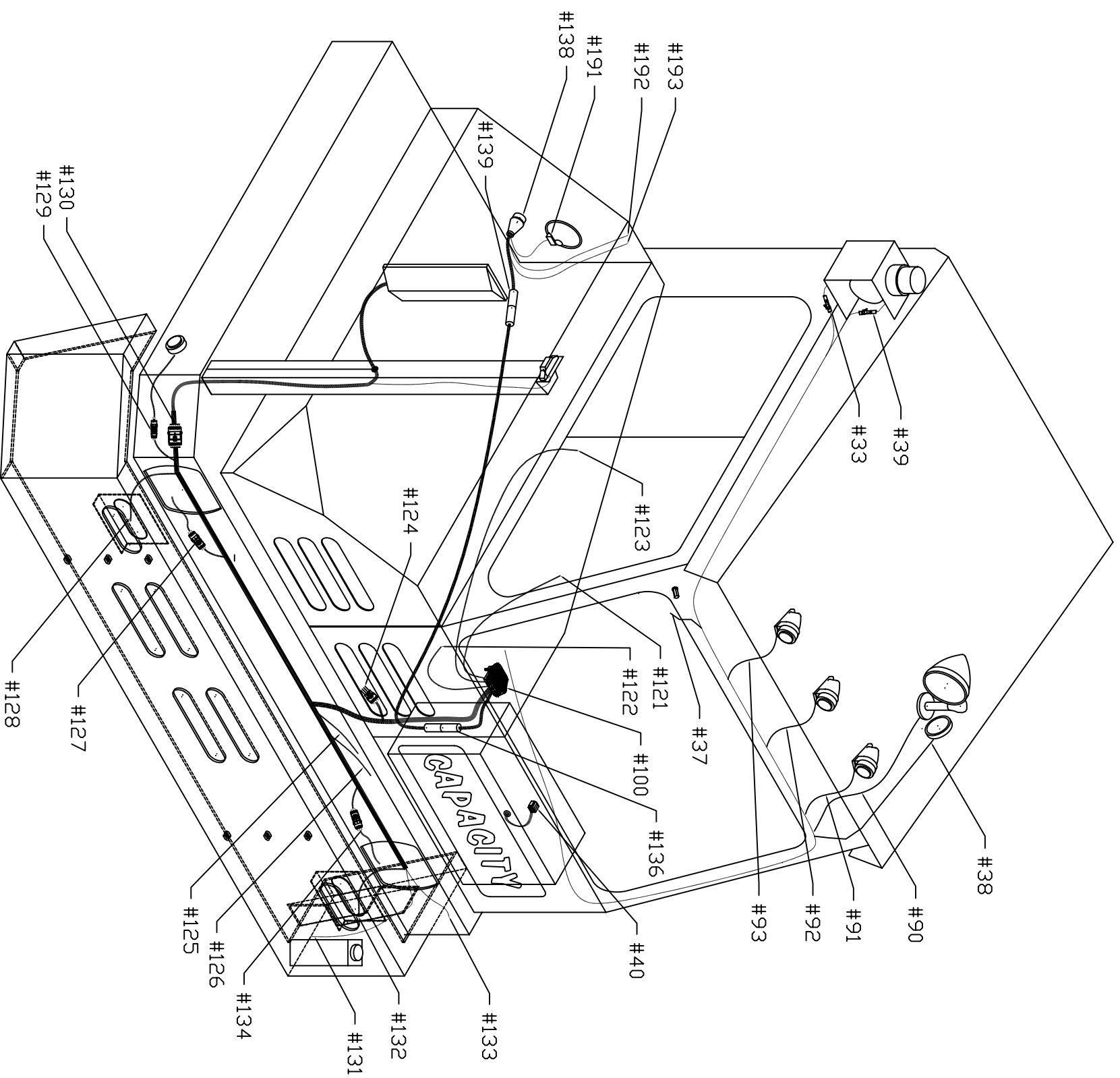
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LEGEND GRAPHIC SYMBOLS CONT'D

DWG. NO.
SD0302.2

PLUG LOCATIONS, OUTSIDE CAB



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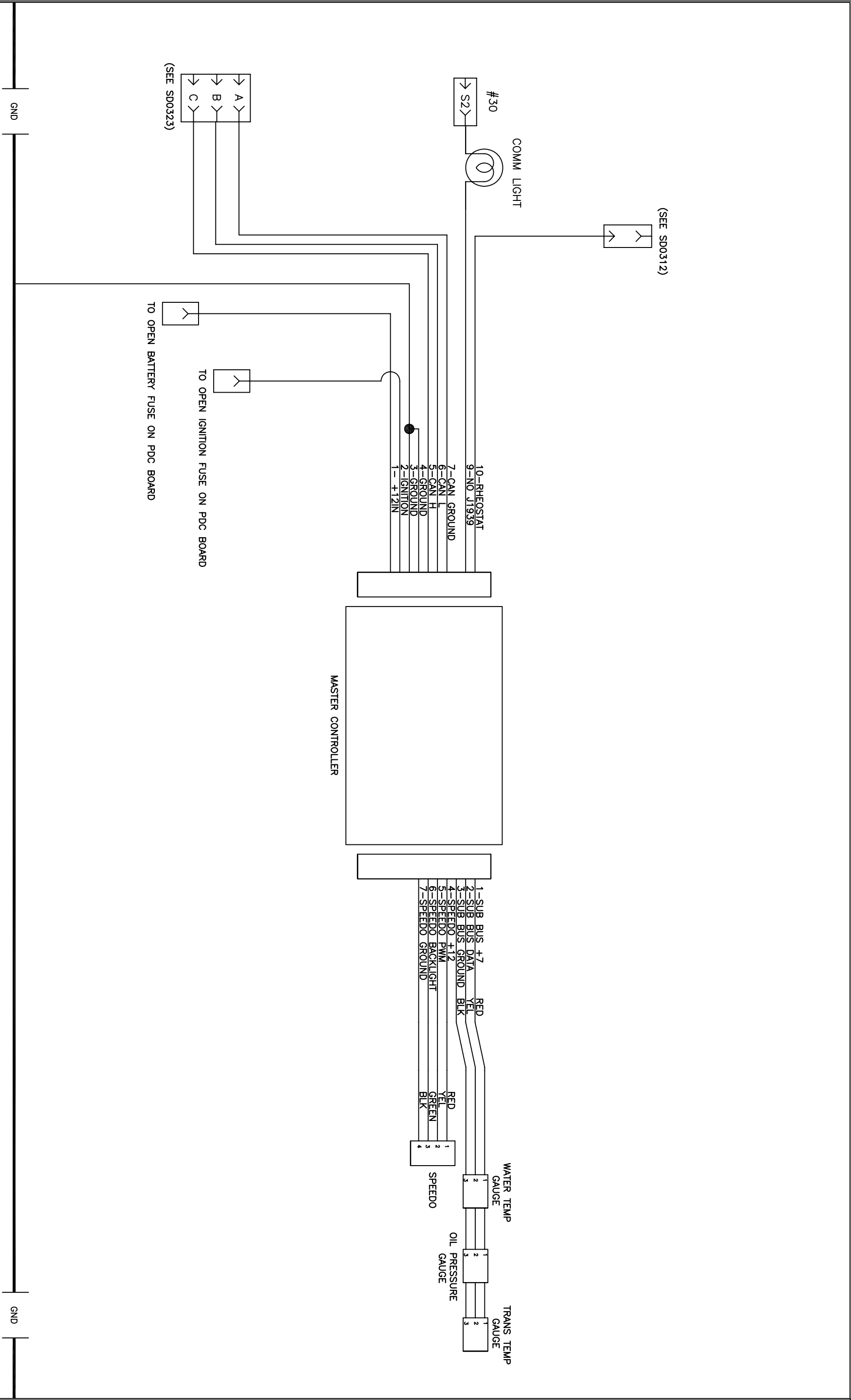
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 .XX ± .030
 .XXX ± .010
 Z ± .1"

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PLUG LOCATIONS, OUTSIDE CAB

MATERIAL		FIRST USED		ERIN	
DRW	DATE	DRW	DATE	DATE	DATE
CHK	MWY	CHK	MWY	DATE	DATE
SCALE	SHEET	SCALE	SHEET	DATE	DATE
CHANGE		REVISION		ERIN	BY
SYM	CHANGE	ERIN	DATE	BY	DATE
SIZE		PART NO.		REV.	
B		SD0304			

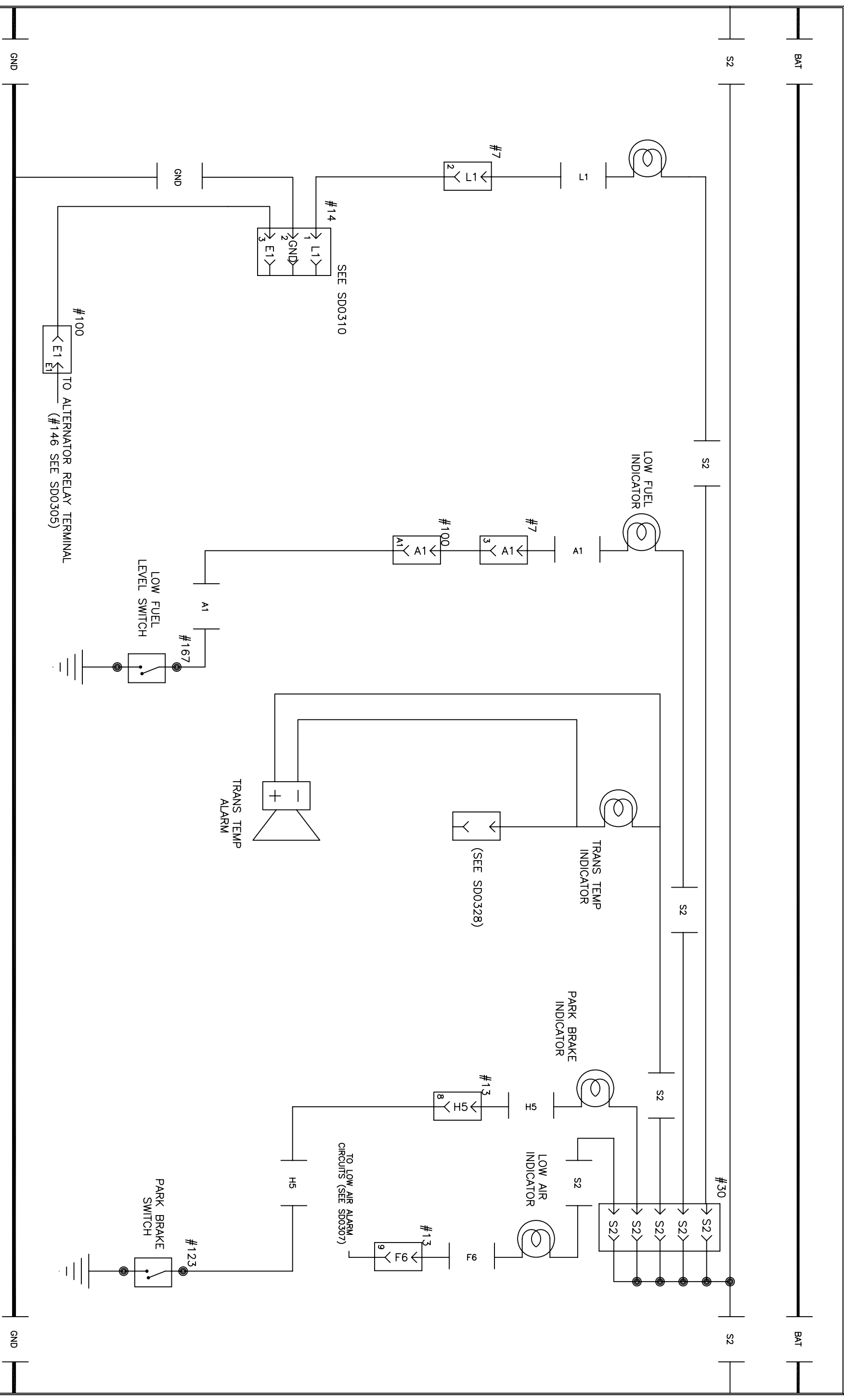


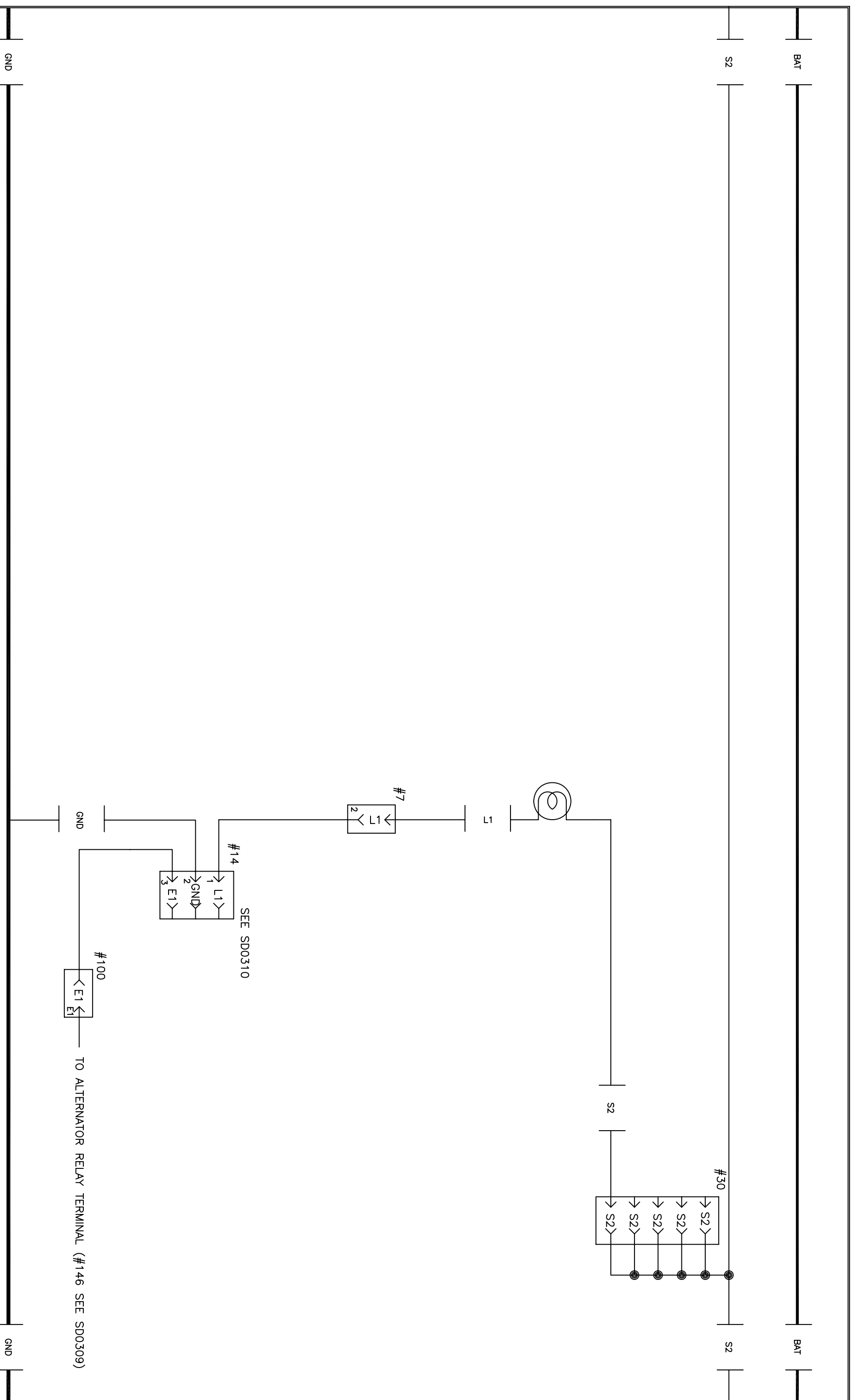
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CHASSIS J1939 GAUGE PANEL CIRCUITS

DWG NO. SDO306



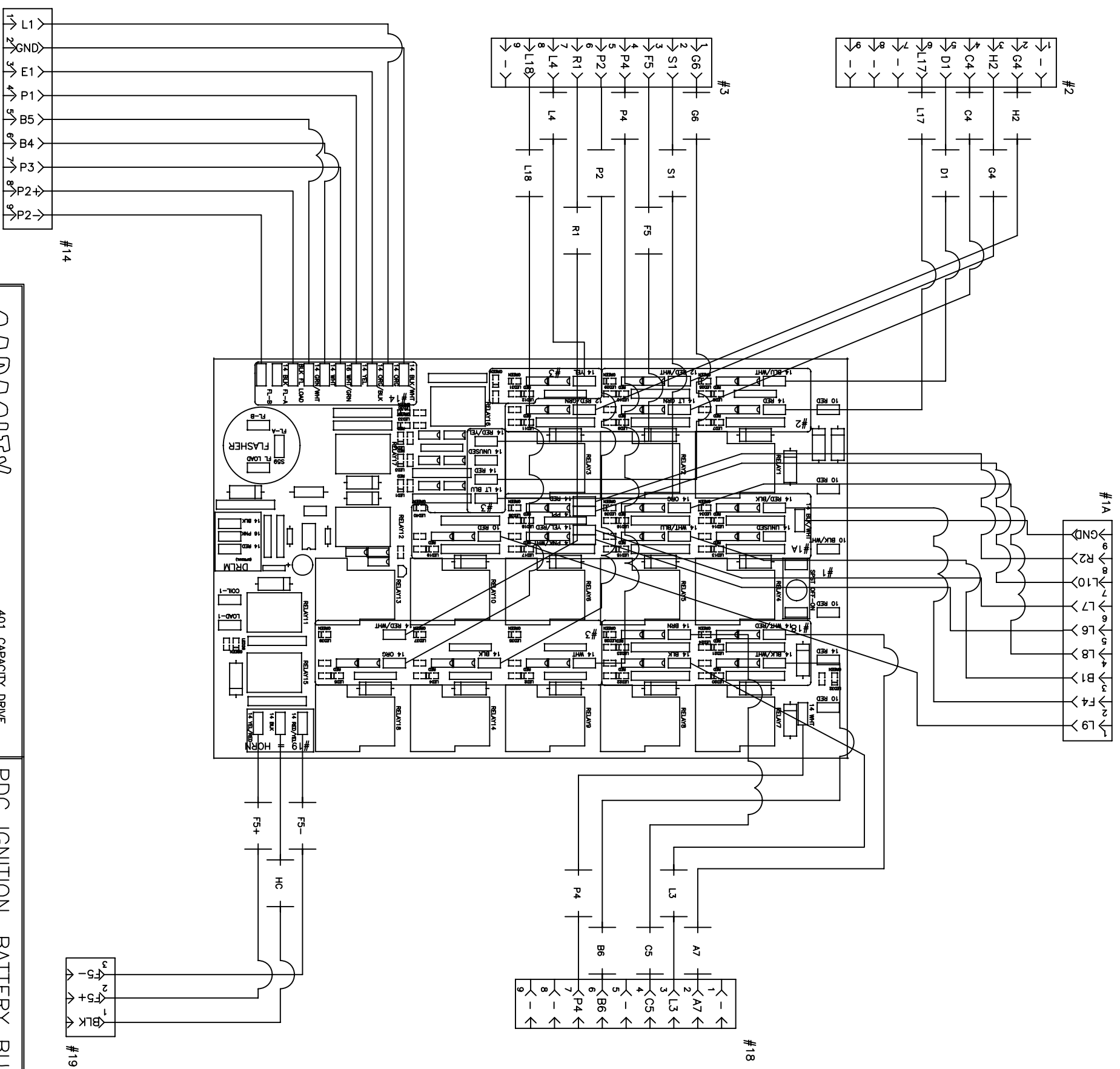


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INDICATOR AND ALARM CIRCUITS CONT'D

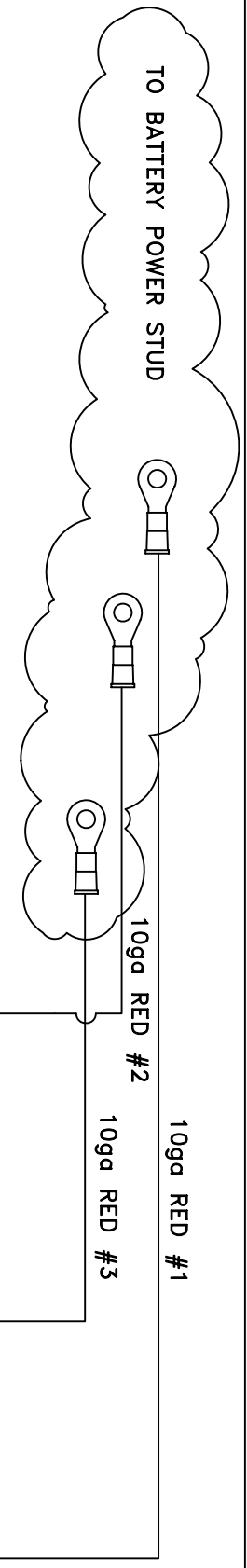
DWG NO.
SD0309



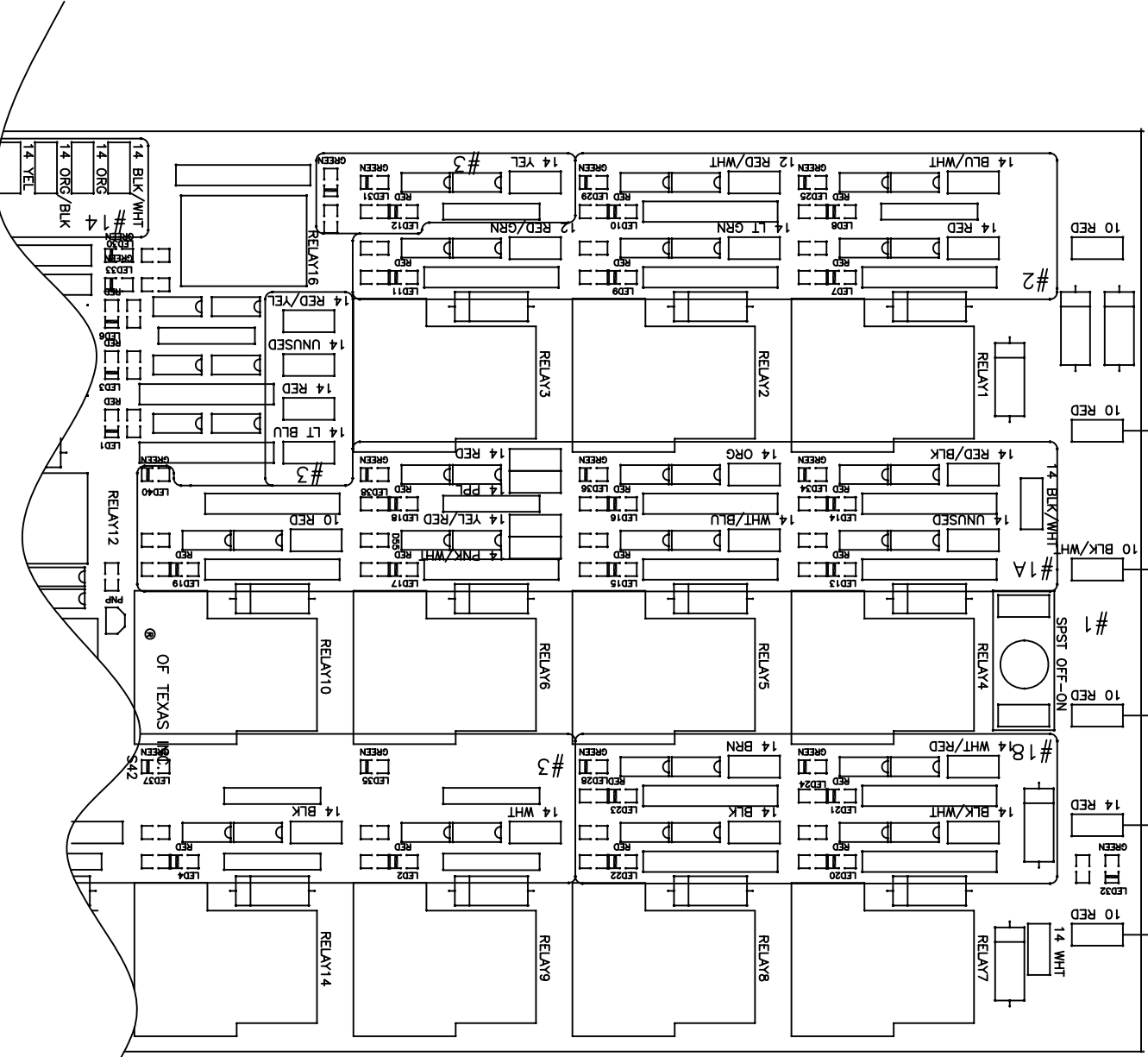
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PDC IGNITION, BATTERY BUS AND LAMP CONTROL CIRCUITS - 2006 BOARD

DWG NO. SD0310



(3) 10 GA. RED LEADS ATTACH TO MAIN CAB BATTERY POWER STUD
 BLK/WHT ATTACHES TO CAB GROUND STUD UNDER RH GAUGE PANEL

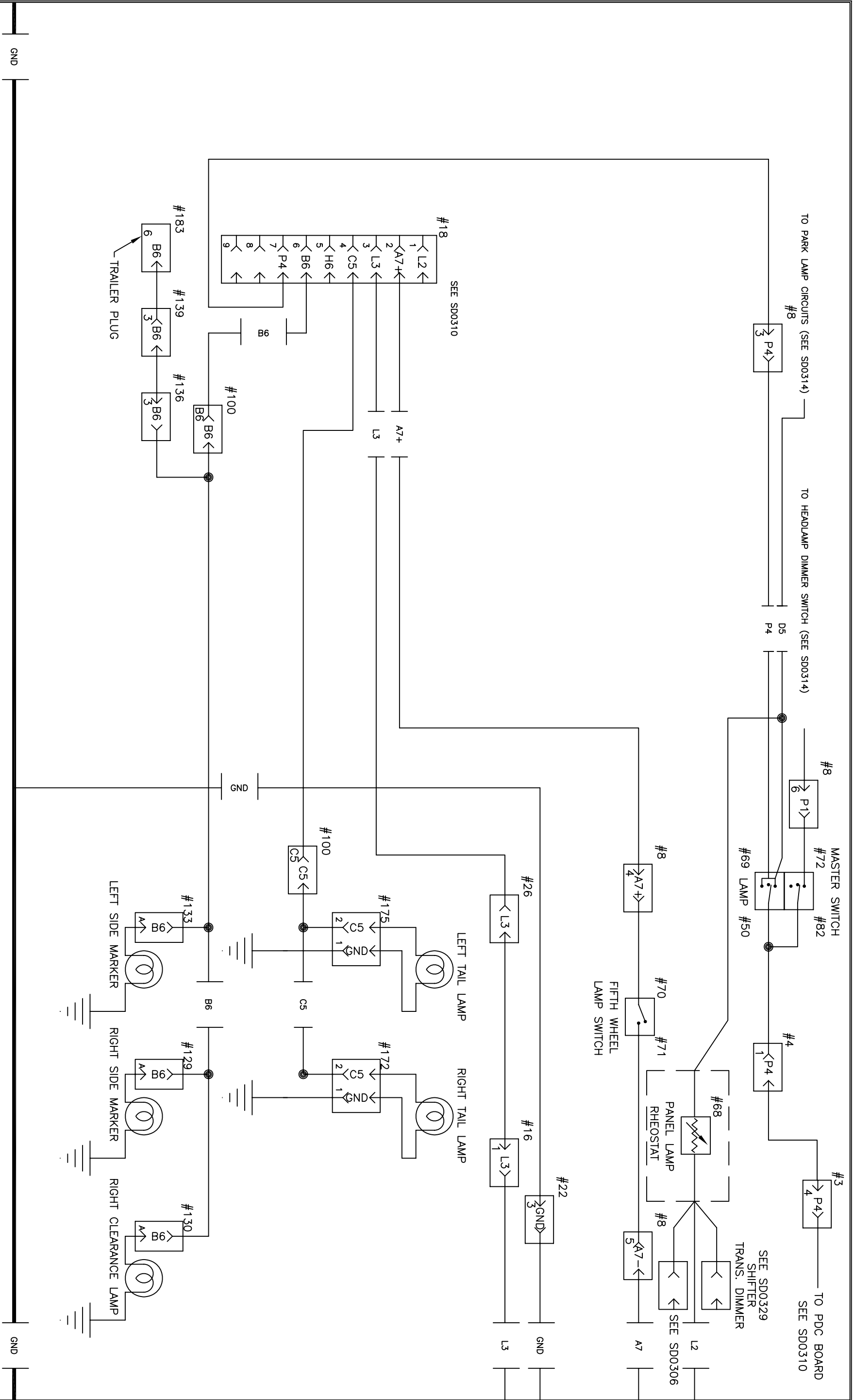


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PDC POWER AND GND. CIRCUITS - 2006

DWG NO.
 SD0311

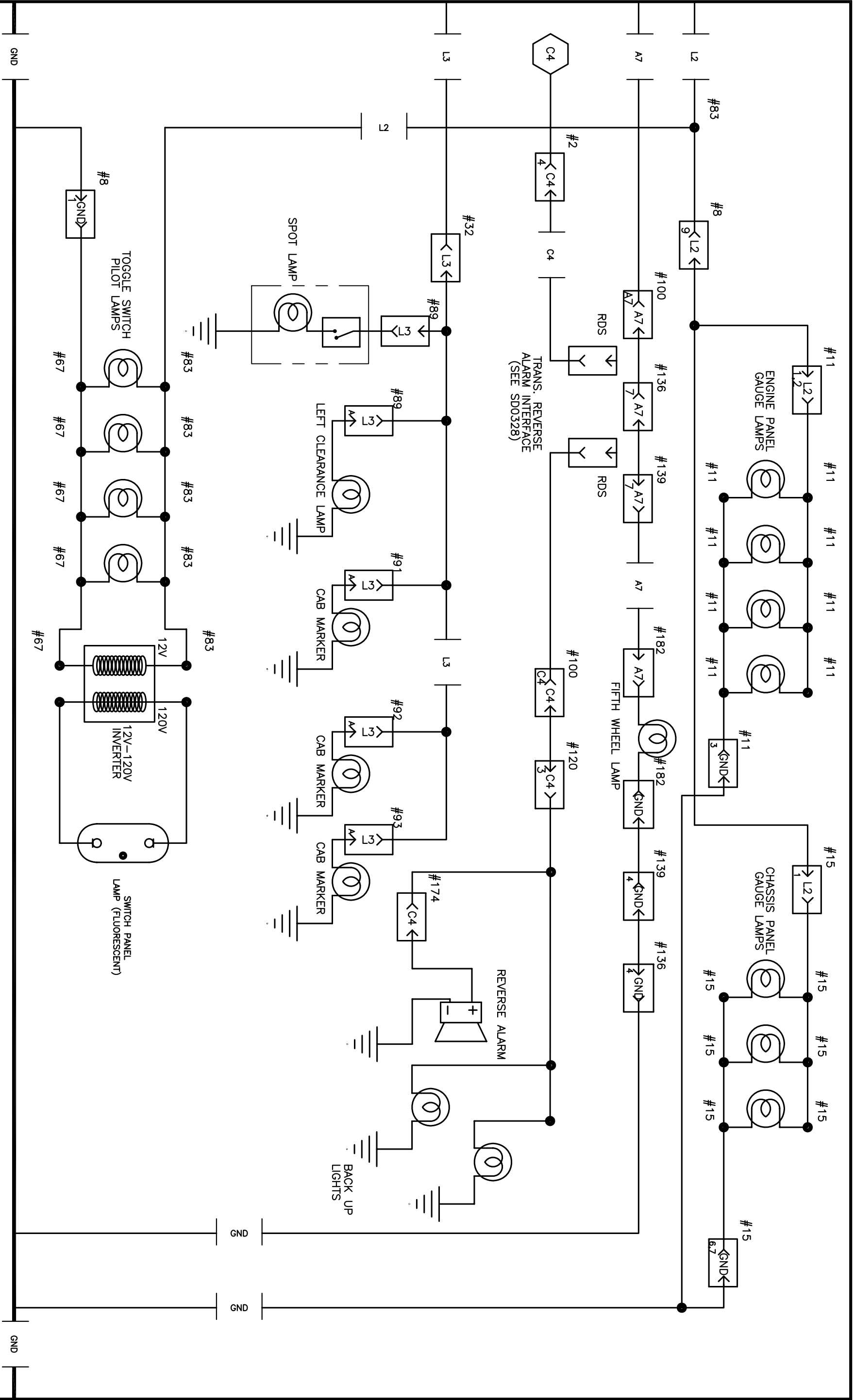


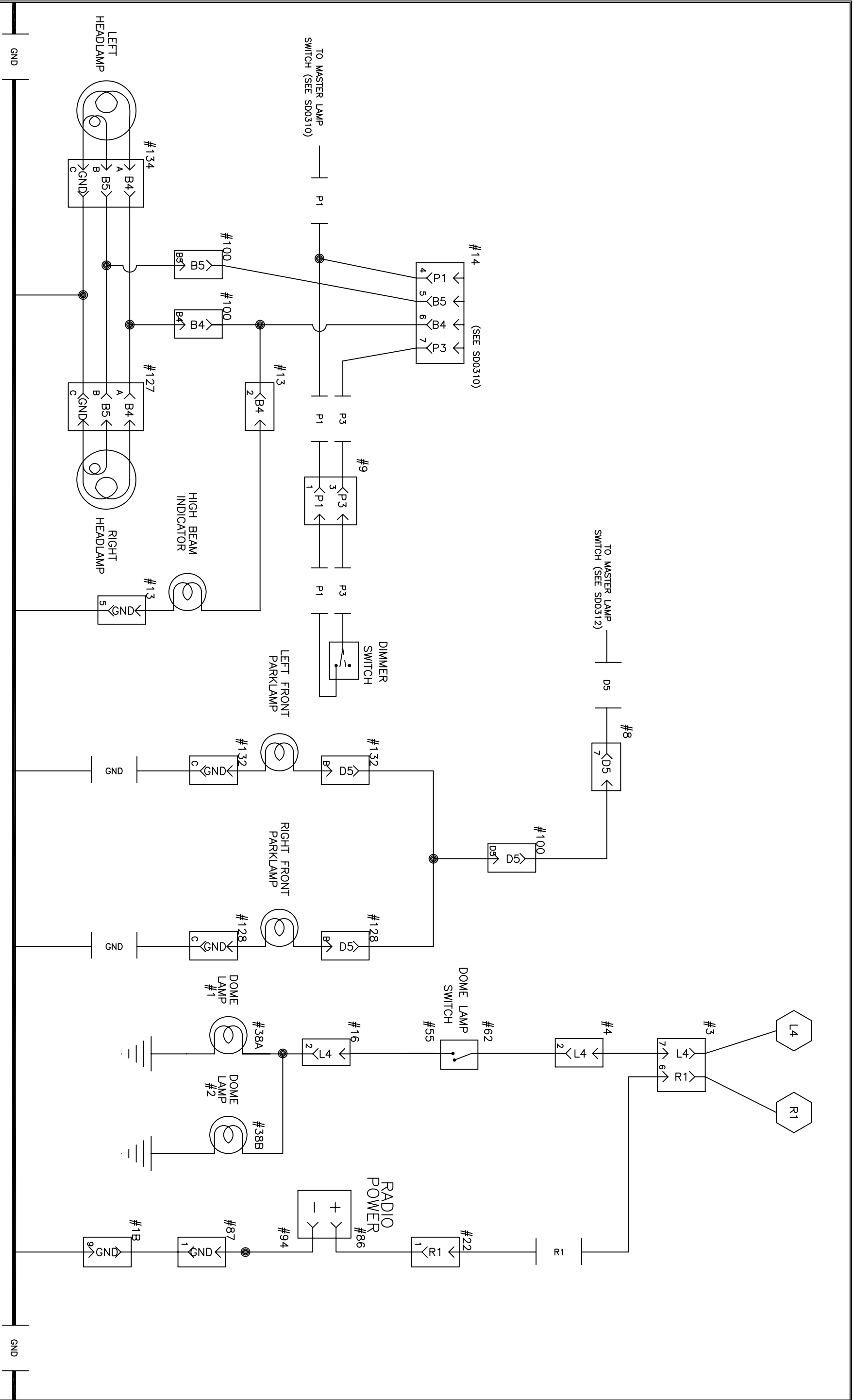
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LAMP CONTROL CIRCUITS

DWG. NO. SD0312



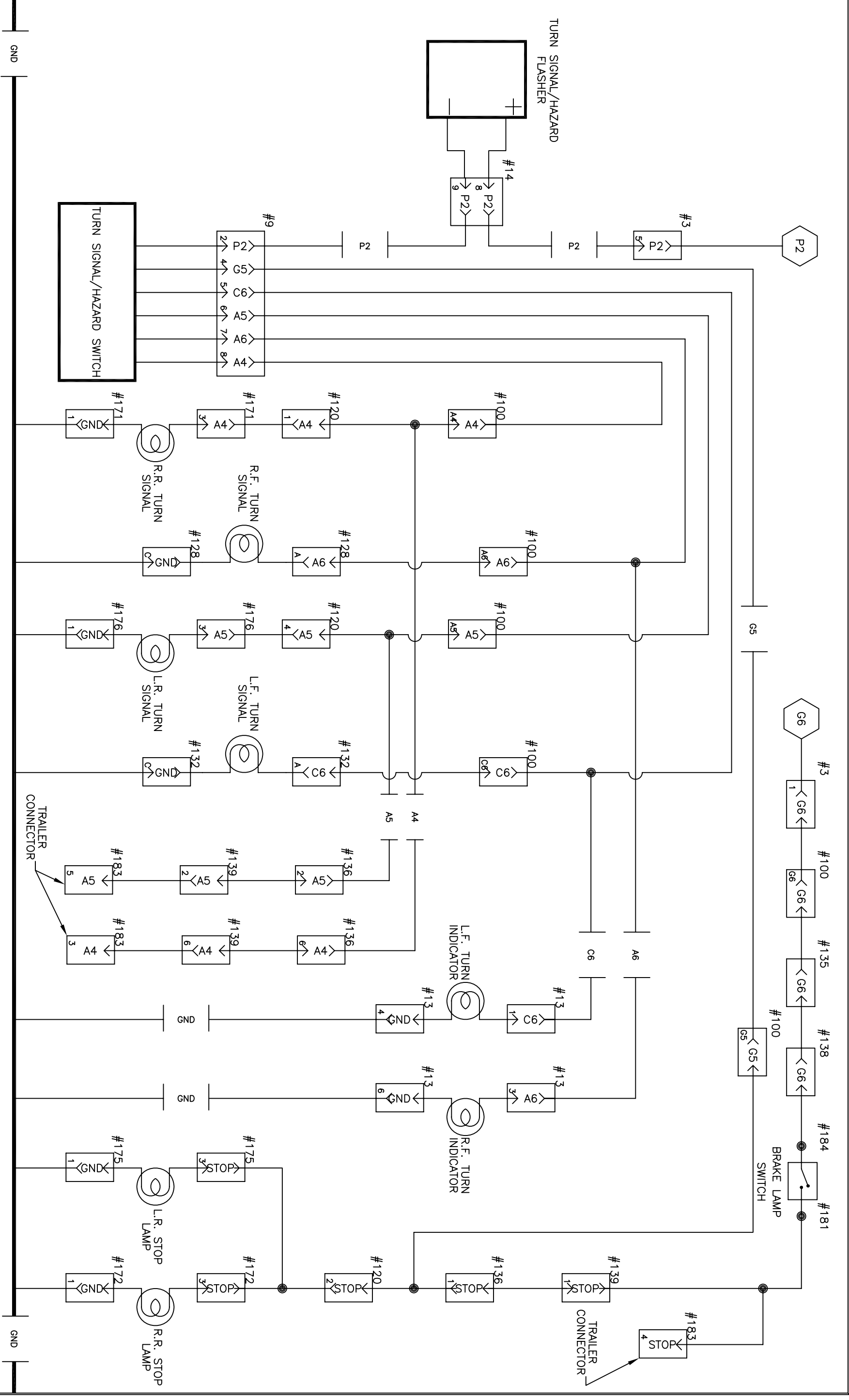


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HEADLAMP, PARKLAMP,
AND DOME LAMP CIRCUITS

DWG. NO. SD0314

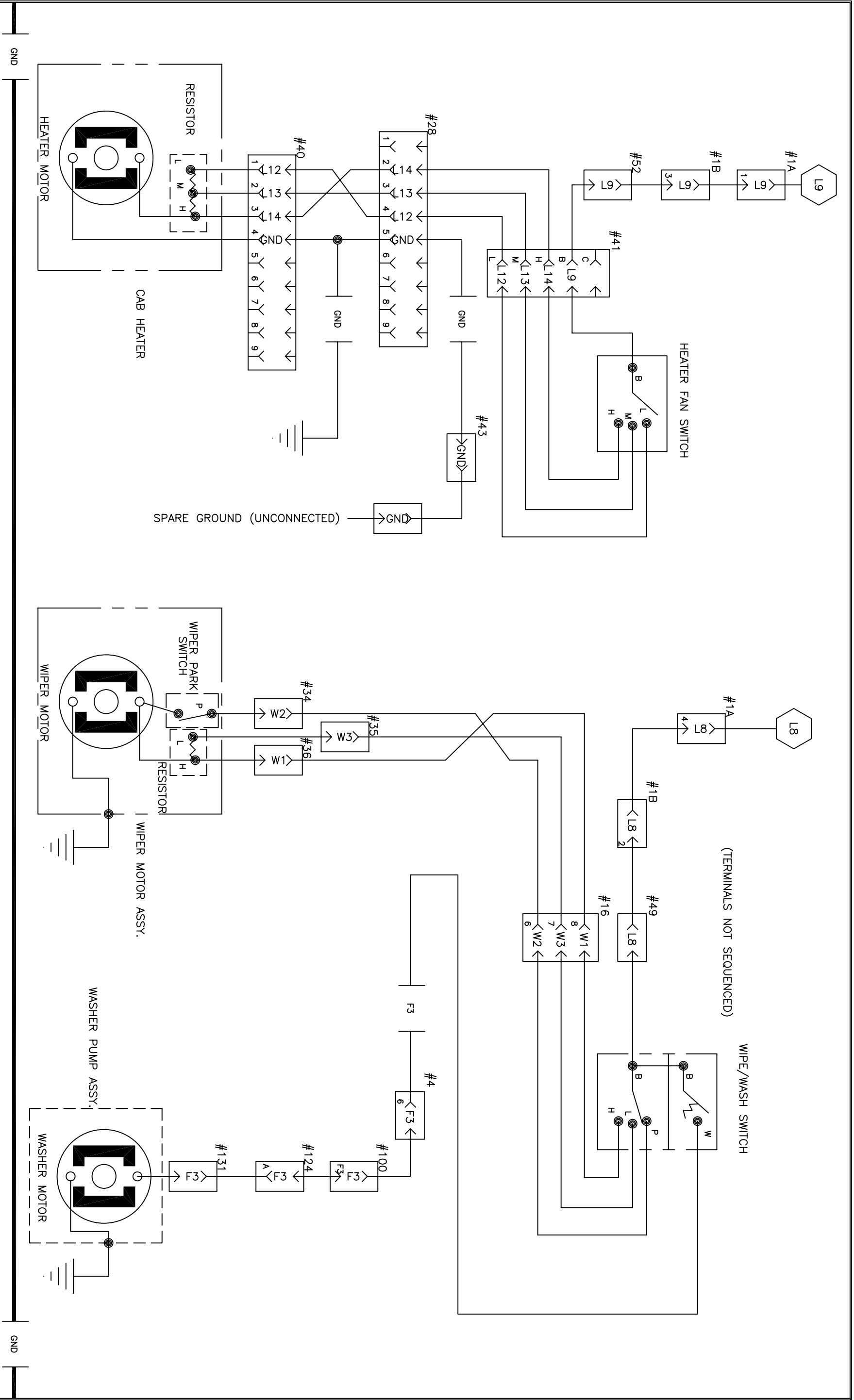


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TURN SIGNAL & STOP LAMP CIRCUITS

DWG. NO. SD0315

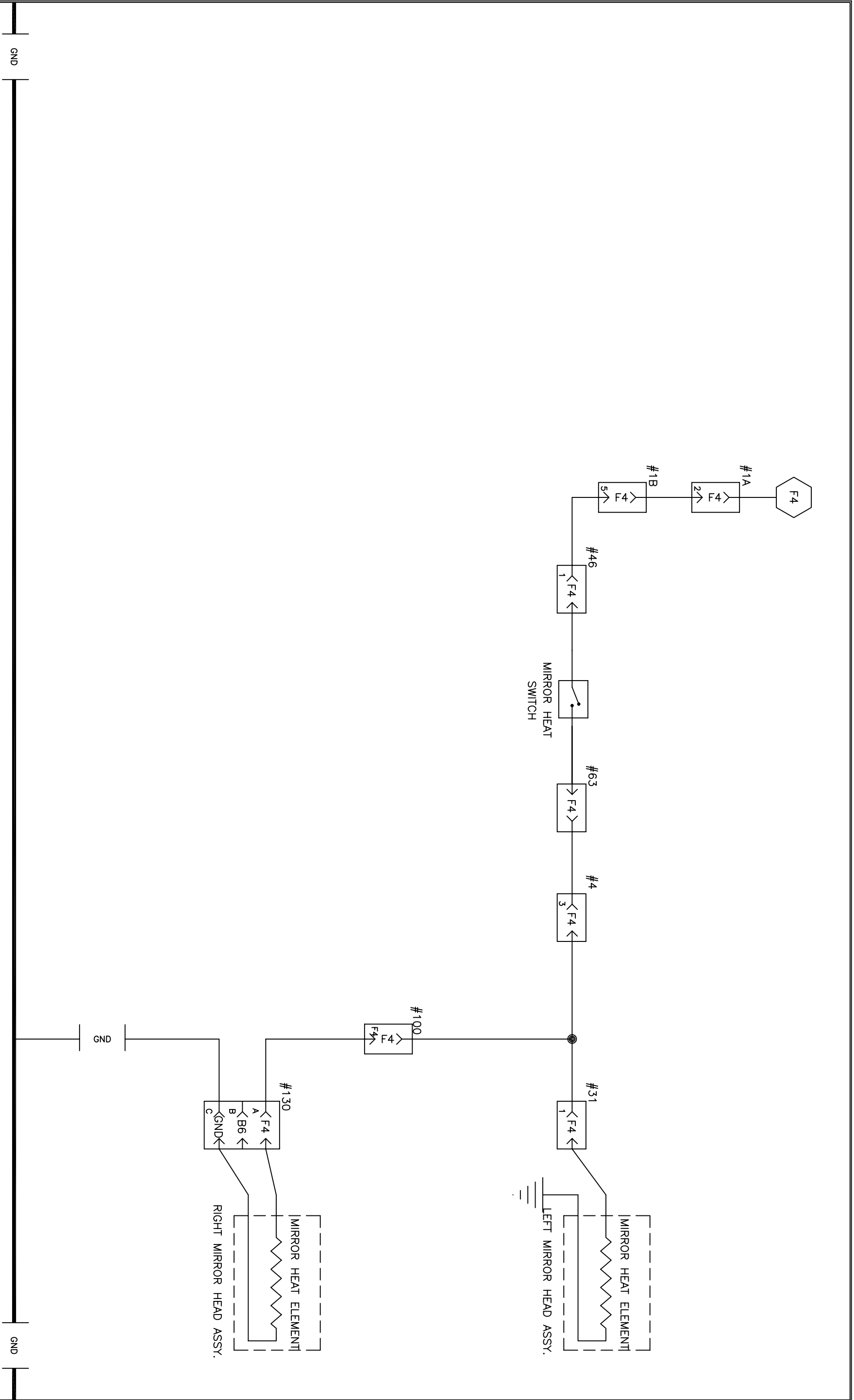


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CAB HEATER, WIPE/WASH CIRCUITS

DWG NO. SD0317

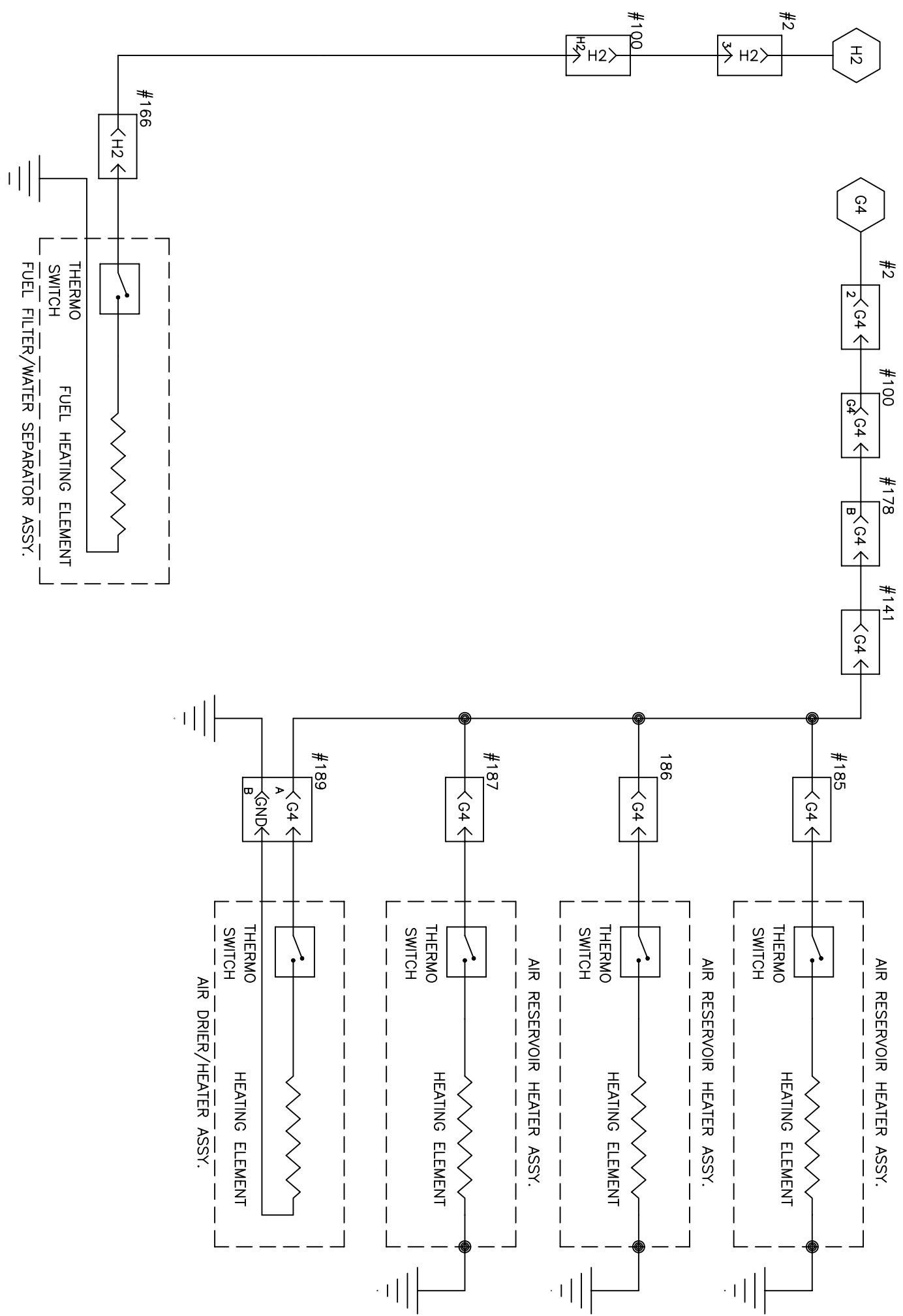


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HEATED MIRROR CIRCUITS

DWG NO. SD0318



GND

GND

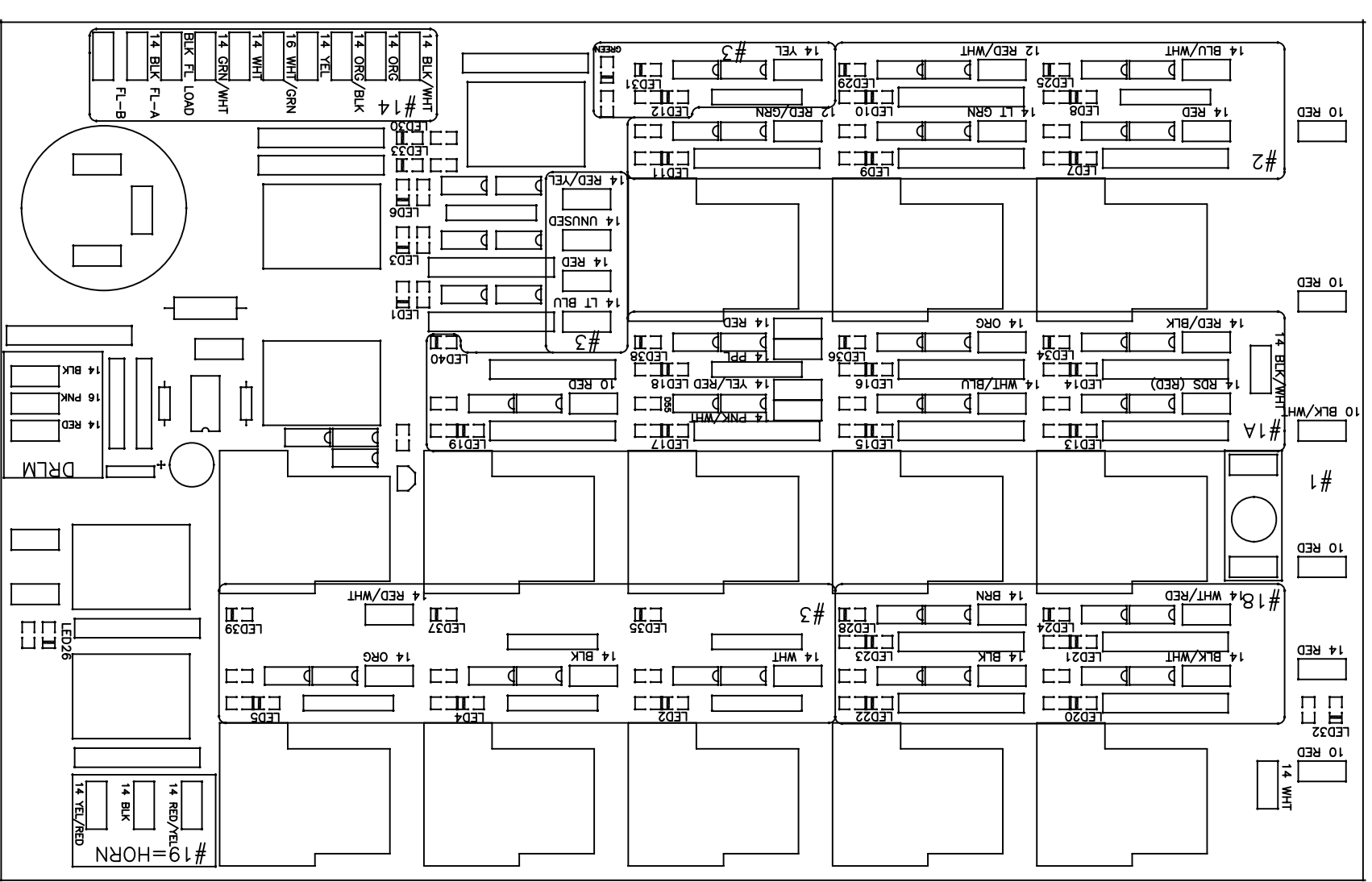
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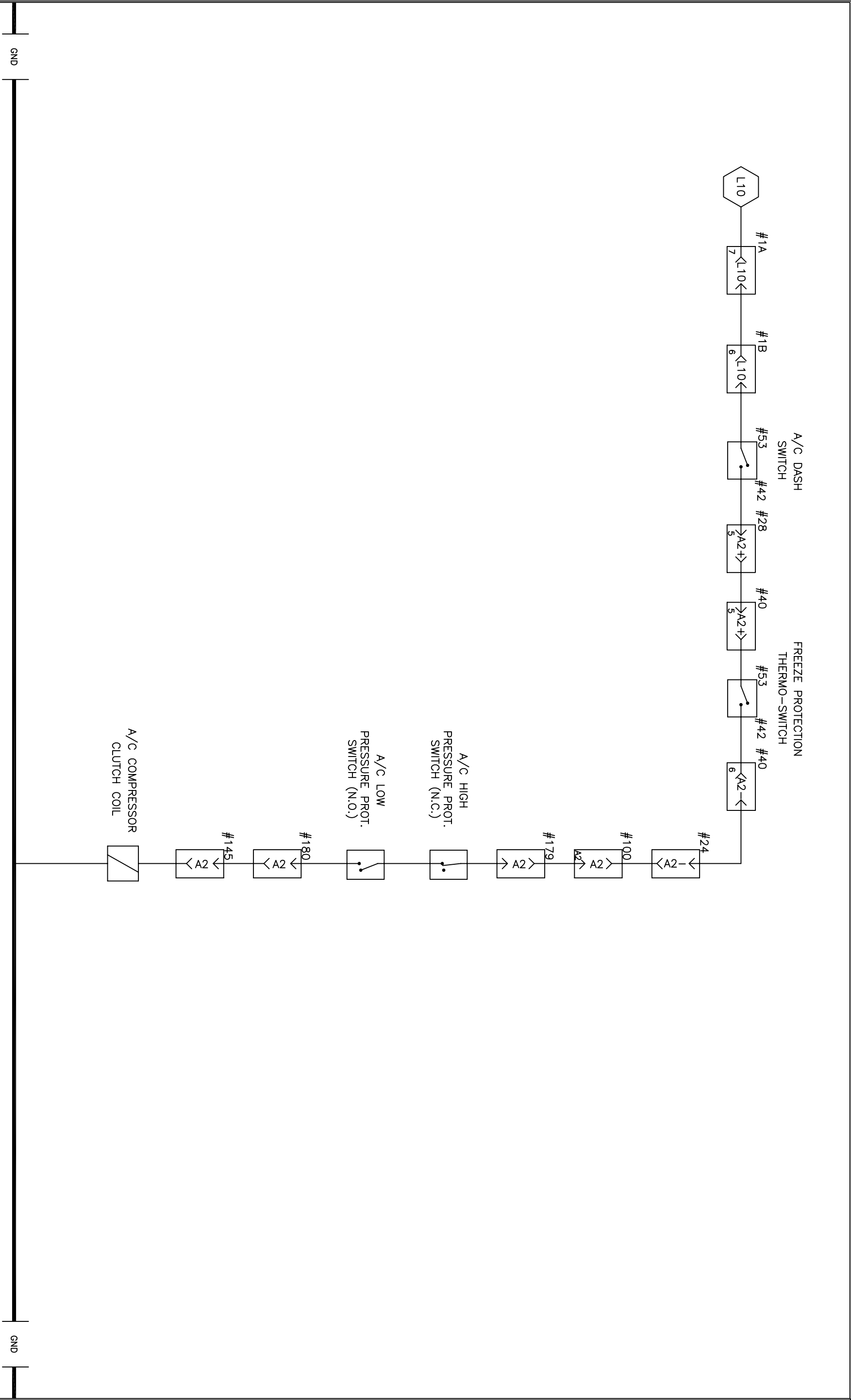
FUEL HEAT AND AIR DRIER CIRCUITS

DWG. NO. SD0319

LED LOCATION	CIRCUIT I.D.	WIRE COLOR	FUNCTION
1	S1	LIGHT BLUE	IGNITION SWITCH POWER
2	P4	WHITE	MASTER HEADLAMP SWITCH
3	G6	RED	BRAKE LIGHT SWITCH
4	P2	BLACK	TURN SIGNALS
5	R1, L18	RED, ORANGE	TWO-WAY RADIO, LUBE SYSTEM
6	F5, SPARE	RED/YEL, SPARE	ELECTRIC HORN, SPARE (5A MAX)
7	L17	RED	LUBE SYSTEM
8	D1	BLU/WHT	ENGINE RUN POWER
9	C4	LIGHT GREEN	REVERSE LIGHTS & ALARM
10	G4	RED/WHT	AIR DRIER
11	H2	RED/GRN	FUEL HEATER
12	L4, L5	YELLOW	DOME LAMP, CAB FAN
13	RDS	RED (10GA.)	RDS/ABS IGNITION POWER
14	F4	RED/BLK	HEATED MIRRORS
15	B1	WHT/BLU	ETHER START (IF REQUIRED)
16	L8	ORANGE	WINDSHIELD WIPER/WASHER
17	L6, L7	PINK/WHT, YEL/RED	BEACON (STROBE), WORK LAMPS
18	L10, R2	VIOLET, RED	A/C CLUTCH, ENTERTAINMENT RADIO
19	L9	RED	HEATER BLOWER MOTOR
20	B6	BLACK	RIGHT MARKER/TRAILER CLEARANCE LAMPS
21	A7	WHT/RED	COWLING LAMP
22	L3	BLACK	CAB CLEARANCE LAMPS
23	C5	BROWN	TAIL LAMPS

TEST BUTTON MAY BE USED TO CHECK FUNCTIONALITY OF LED DIAGNOSTIC LIGHTS. ALL LED'S SHOULD EMIT LIGHT WHILE DEPRESSING BUTTON. FAILURE OR SHORTING OF A CIRCUIT WILL CAUSE THE CORRESPONDING LED TO LIGHT UP.





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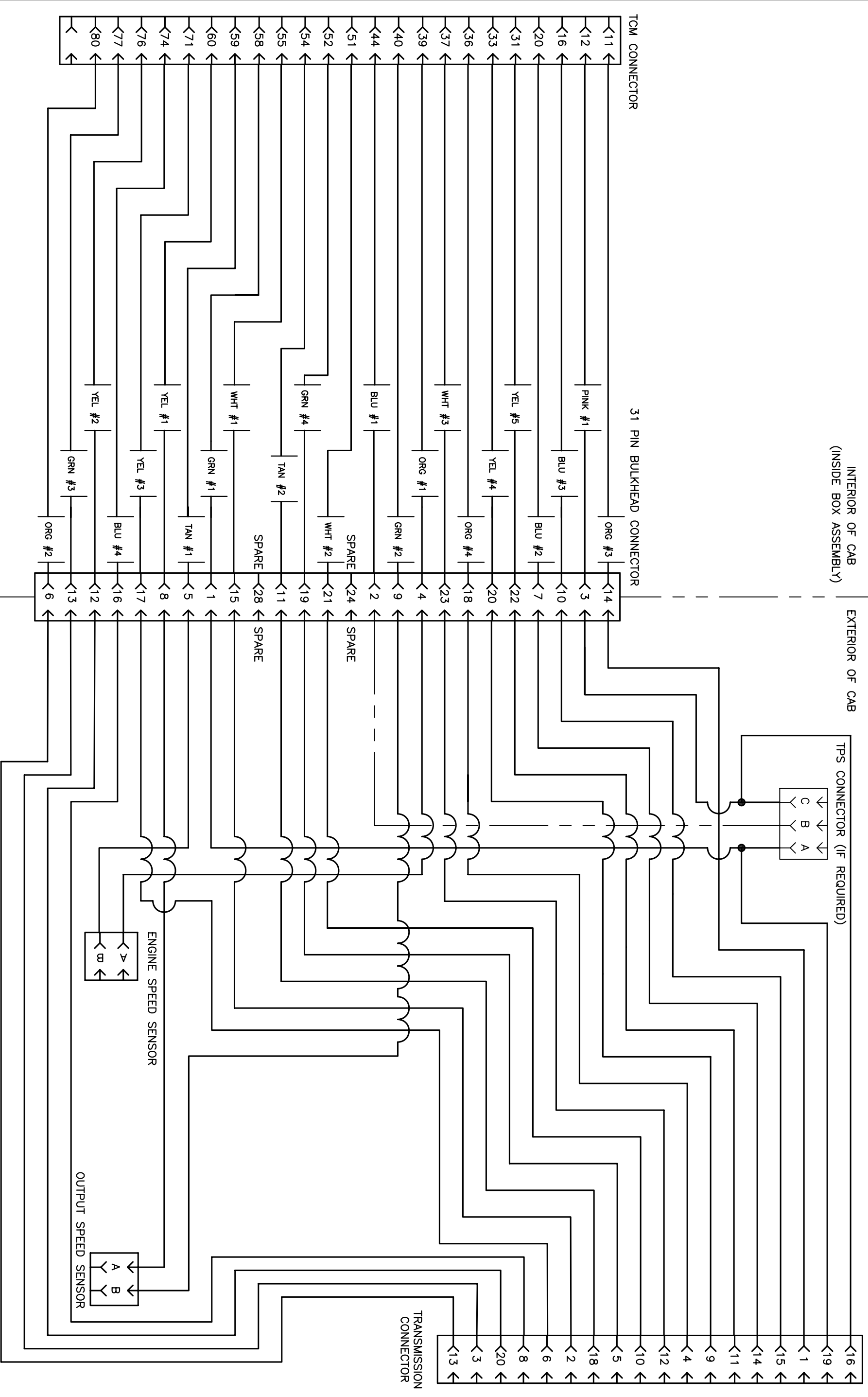
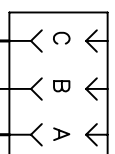
A/C CLUTCH CIRCUITS

DWG NO.
SD0321

INTERIOR OF CAB
(INSIDE BOX ASSEMBLY)

EXTERIOR OF CAB

TPS CONNECTOR (IF REQUIRED)



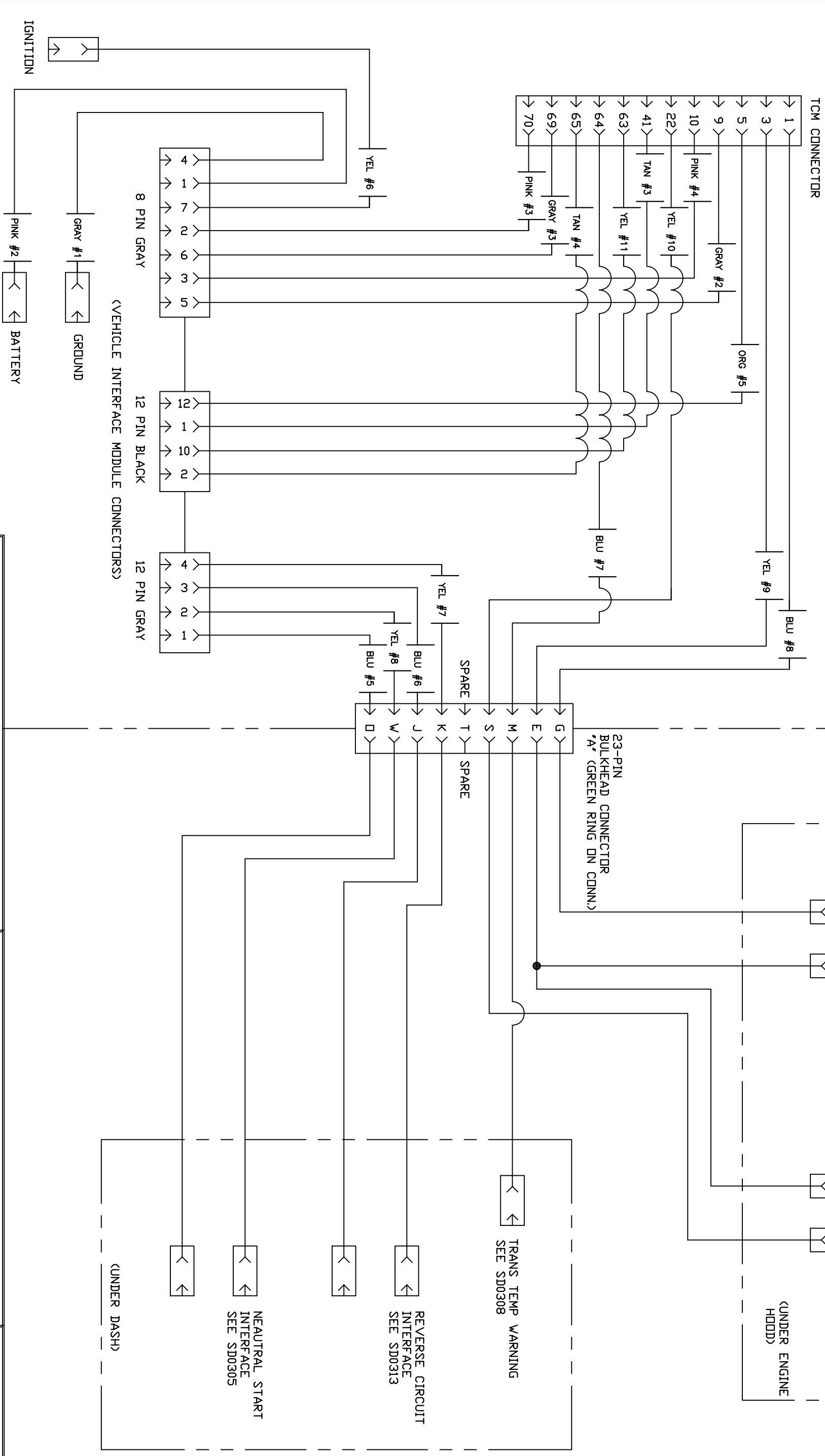
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TCM TO TRANSMISSION

DWG NO. SD0327

INTERIOR OF CAB
(INSIDE BOX ASSEMBLY)



TCM CONNECTOR

23-PIN
BULKHEAD CONNECTOR
'A' (GREEN RING ON CONN.)

PARK BRAKE SWITCH

SERVICE BRAKE SWITCH

(UNDER ENGINE HOOD)

TRANS TEMP WARNING
SEE SD0308

REVERSE CIRCUIT
INTERFACE
SEE SD0313

NEUTRAL START
INTERFACE
SEE SD0305

(UNDER DASH)

8 PIN GRAY

12 PIN BLACK

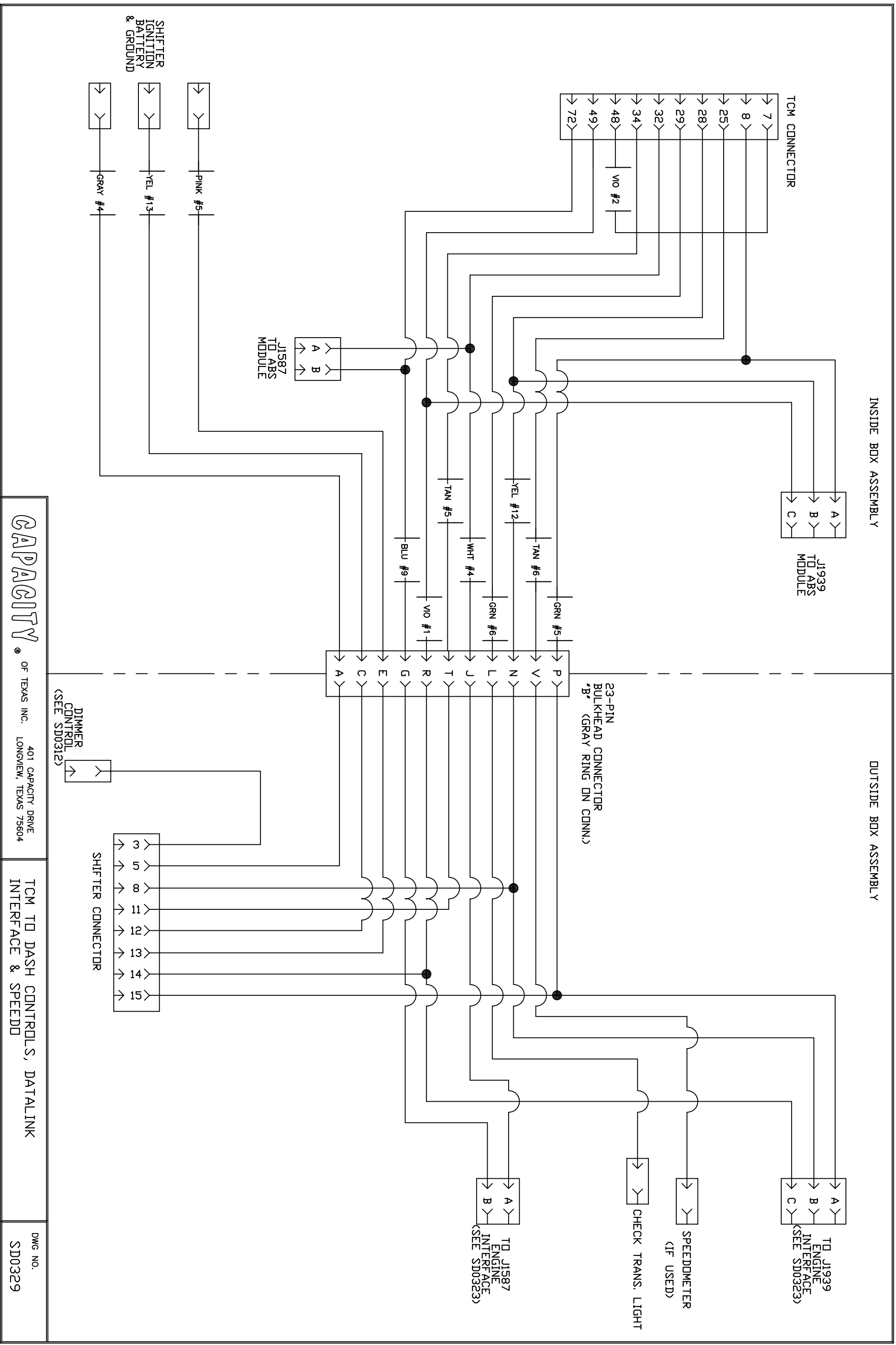
12 PIN GRAY

(VEHICLE INTERFACE MODULE CONNECTORS)

GROUND

BATTERY

IGNITION

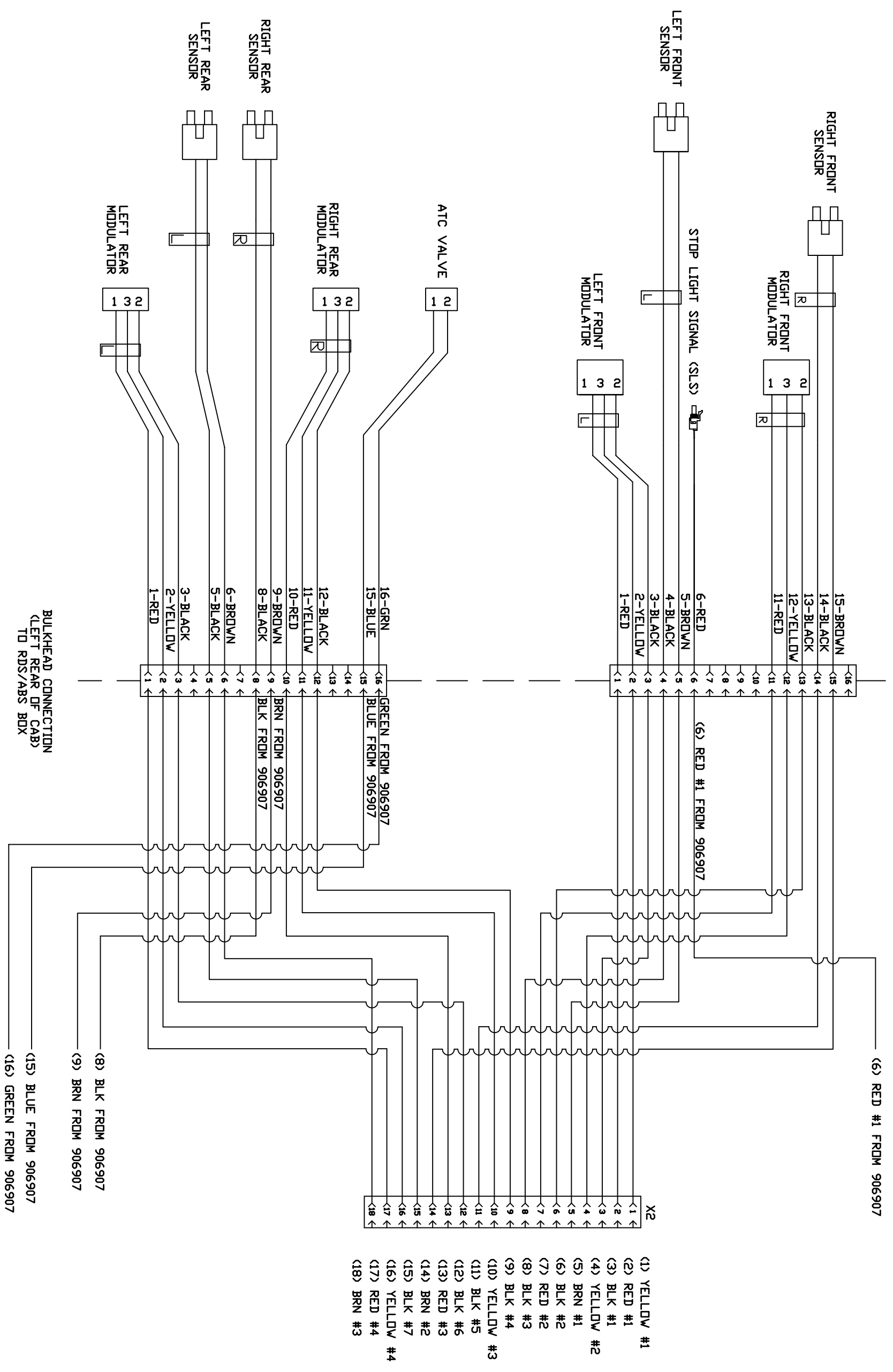


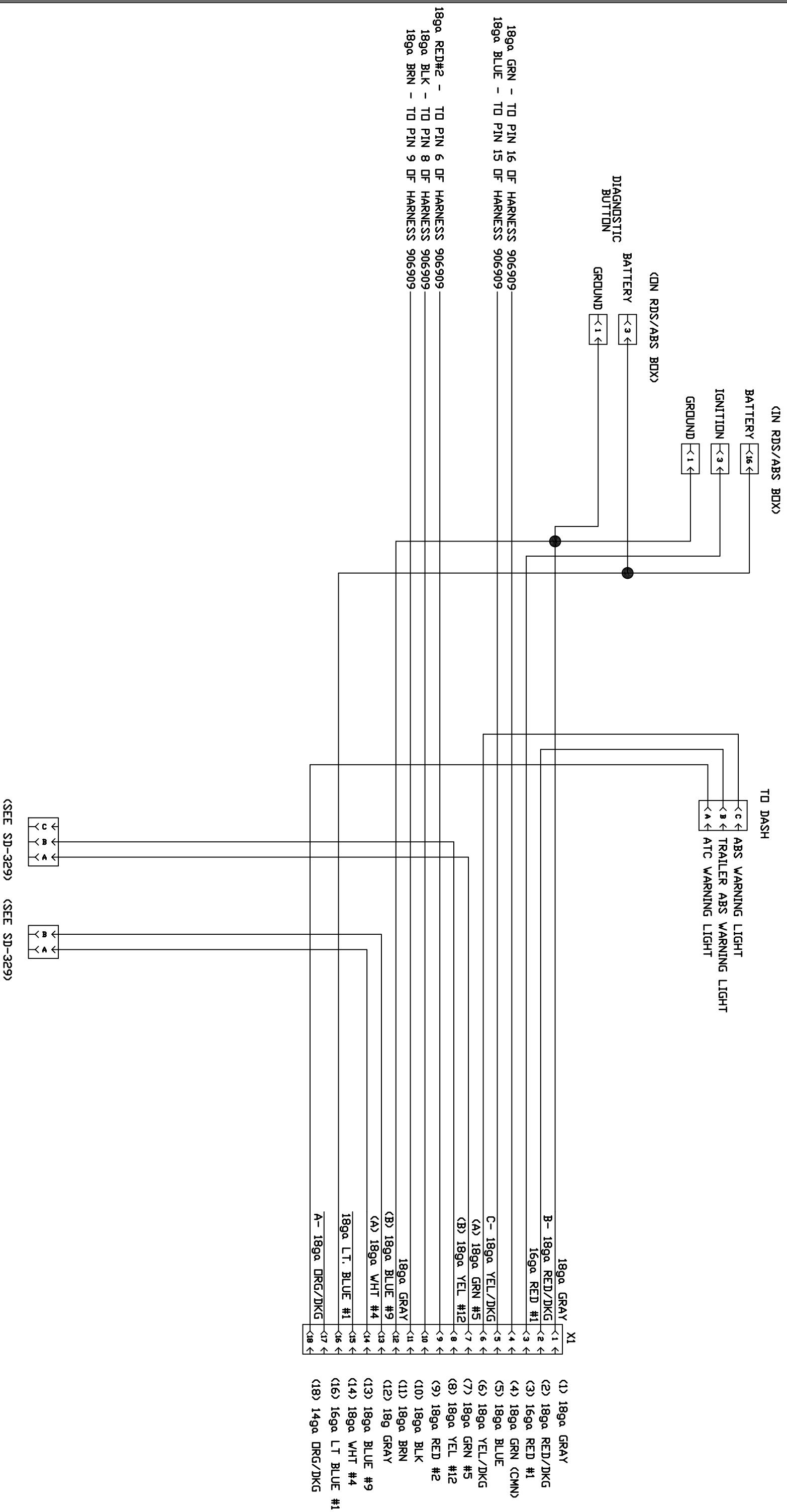
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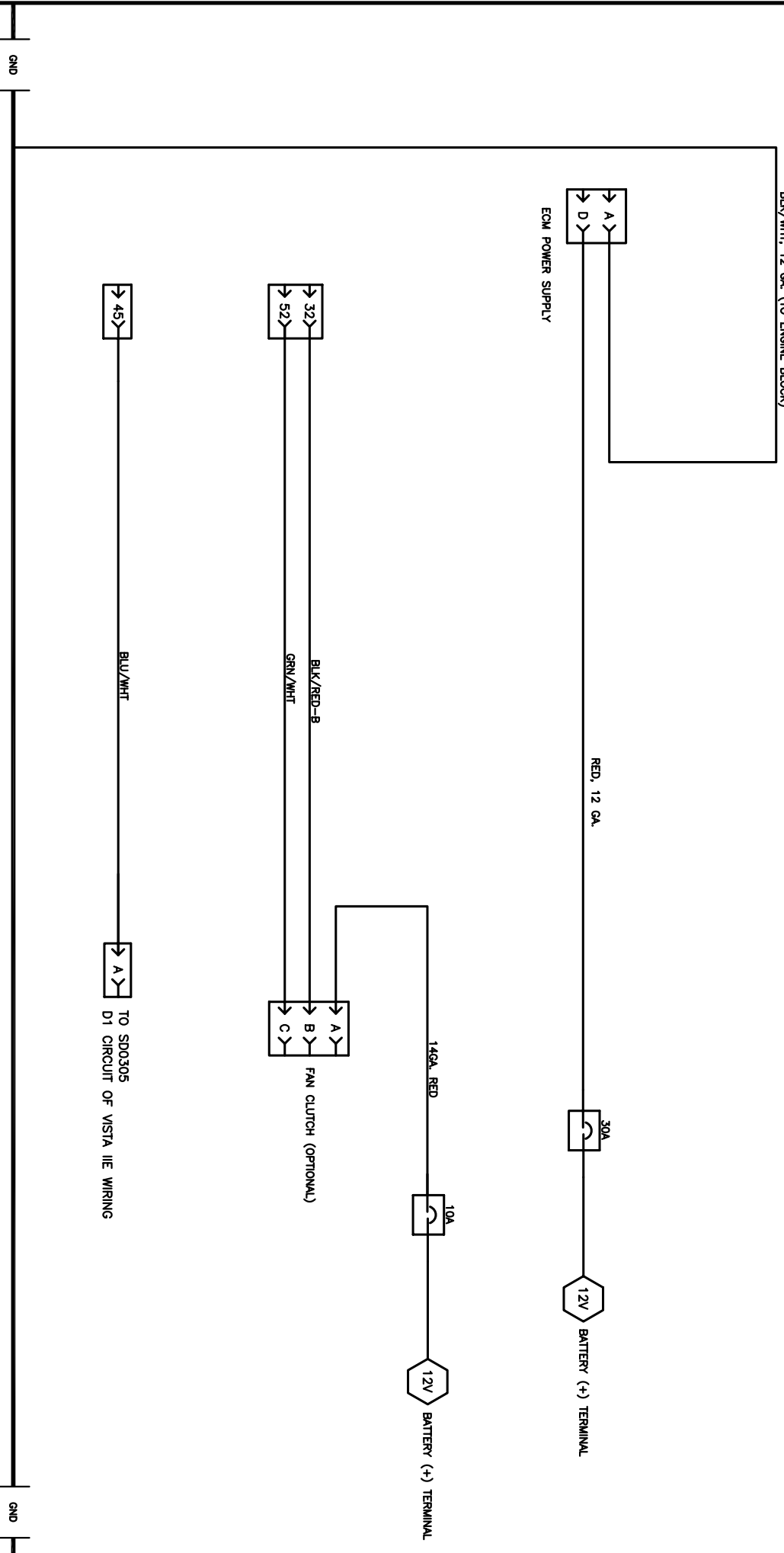
TCM TD DASH CONTROLS, DATALINK
INTERFACE & SPEEDO

DWG. NO.
SD0329





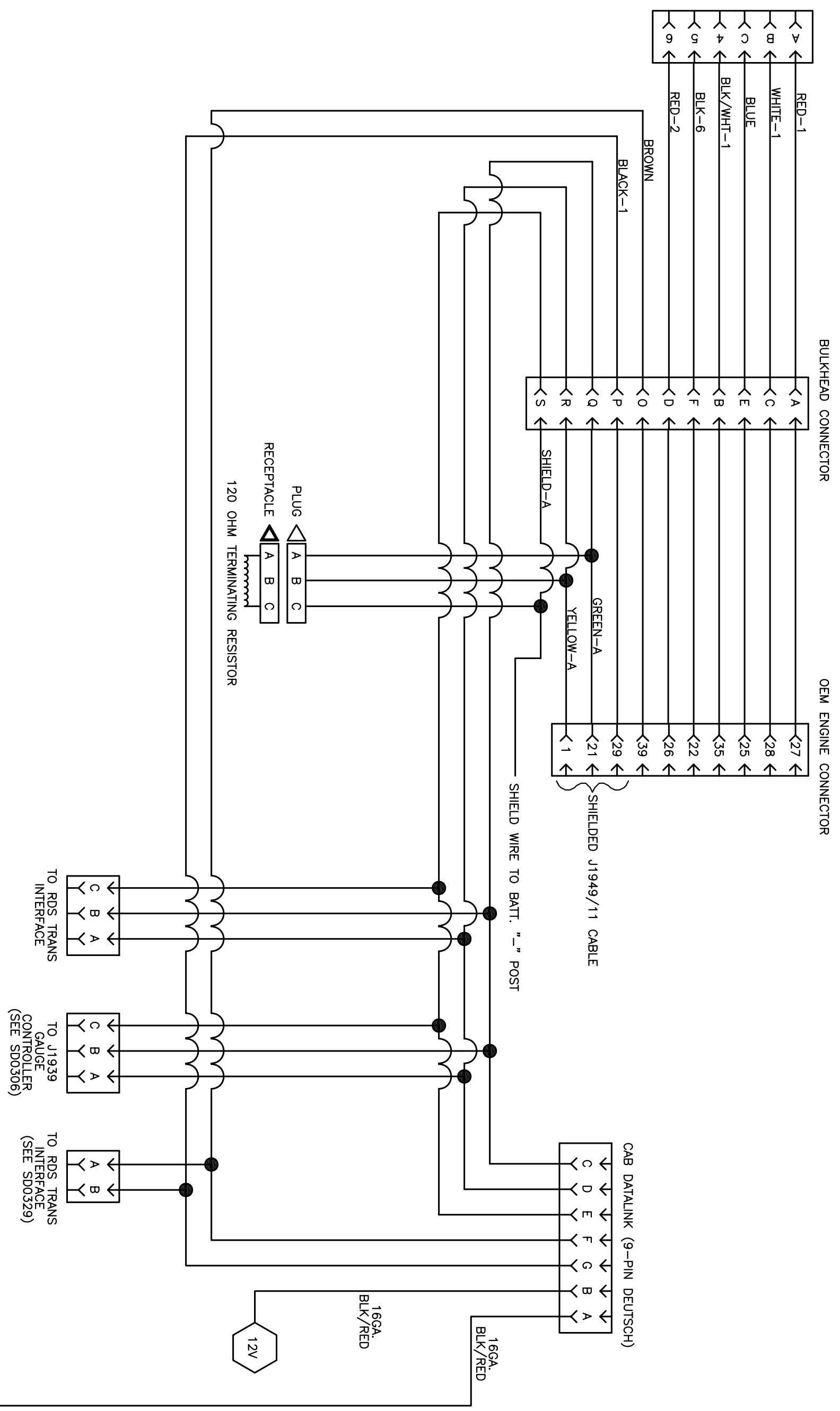
NOTE: ALL WIRE 18GA. UNLESS NOTED

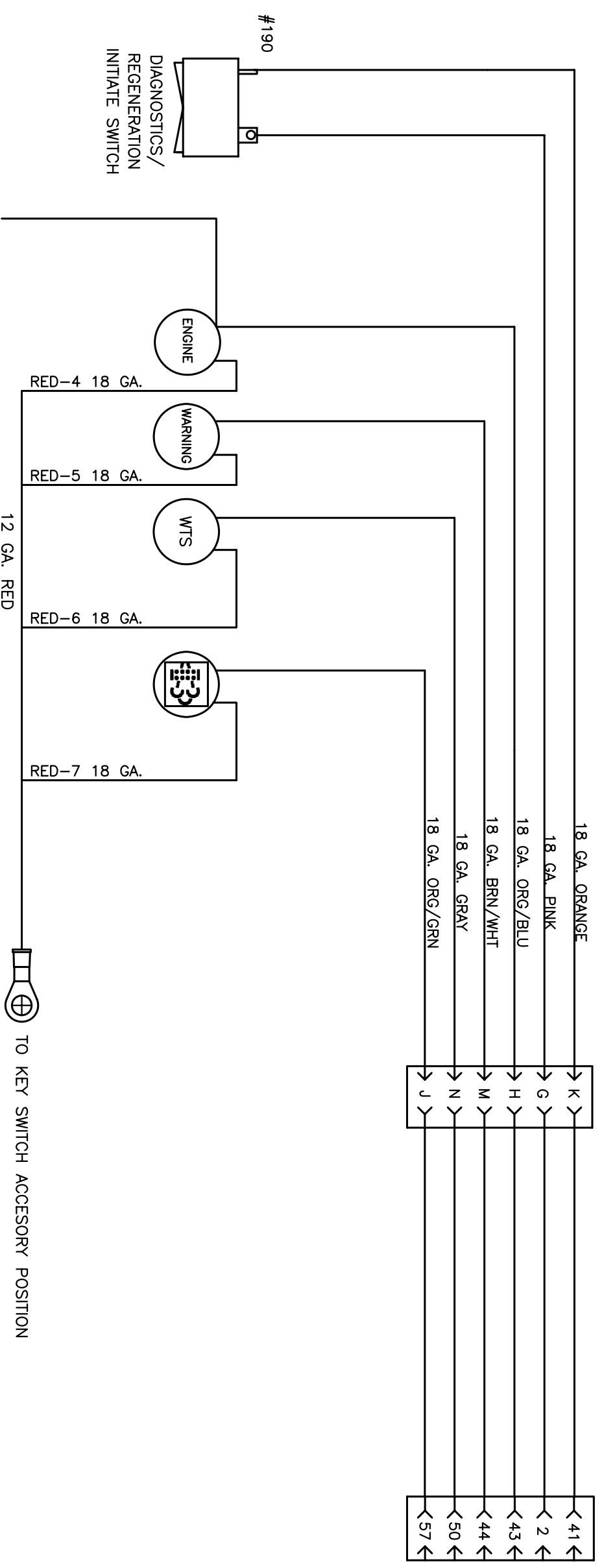


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ECM POWER SUPPLY AND
FAN CLUTCH CIRCUIT - ISB07

DWG NO.
SD0335





#190
 DIAGNOSTICS/
 REGENERATION
 INITIATE SWITCH

14 GA. GREEN
 TO ENGINE FAULT ALARM
 (SEE SD0307)

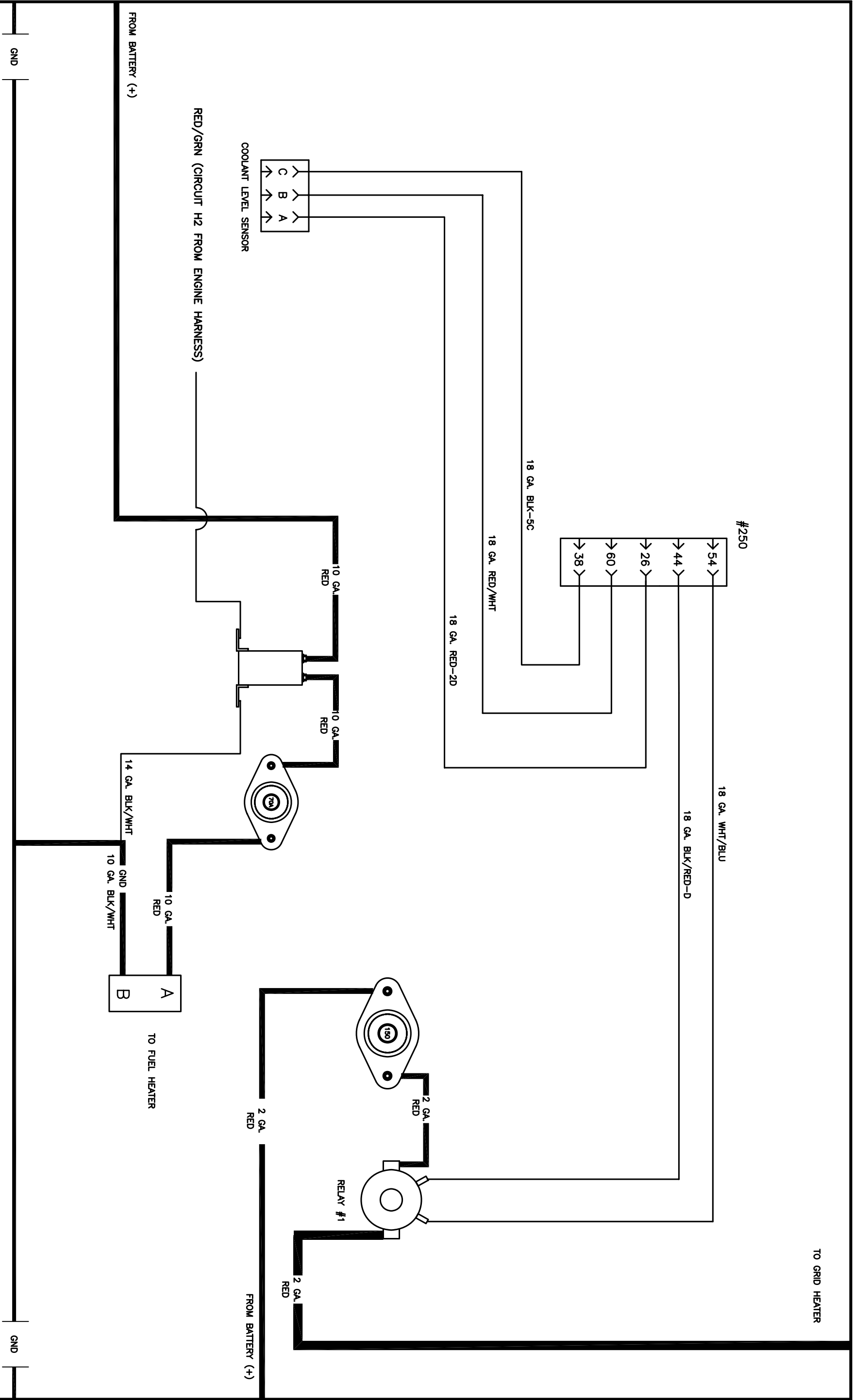
GND

GND

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WARNING LIGHTS AND DIAGNOSTIC SWITCH
 ISB07

DWG NO.
 SD0337



CAPACITY OF TEXAS INC. 401 CAPACITY DRIVE LONGVIEW, TEXAS 75604

GRID HEATER, COOLANT SENSOR AND FUEL HEATER CIRCUITS, ISB07

DWG NO. SD0338

SD0339

WIRING SCHEMATIC, CONSISTING OF:

- SD0002: CIRCUIT LIST BY FUNCTION, TRACTOR, ENGINE, TRANSMISSION
- SD0302: BULKHEAD CONNECTOR LOAD & TEST VIEWS
- SD0302.2: LEGEND, GRAPHIC SYMBOLS
- SD0303: PLUG LOCATIONS, INSIDE CAB
- SD0304: PLUG LOCATIONS, OUTSIDE CAB
- SD0340: CRANKING, CHARGING AND RUN CIRCUITS W/ ISB07
- SD0306: CHASSIS J1939 GAUGE PANEL CIRCUITS
- SD0307: ENGINE GAUGE PANEL CIRCUITS
- SD0308: INDICATOR AND SHUTDOWN CIRCUITS
- SD0310: PDC IGNITION AND BATTERY BUS & LAMP CONTROL CIRCUITS - 2006 BOARD
- SD0311: PDC POWER AND GROUND CIRCUITS - 2006
- SD0312: LAMP CONTROL CIRCUITS
- SD0313: LAMP CONTROL CIRCUITS CONTINUED (REVERSE LAMPS, ETC.)
- SD0314: HEADLAMP, PARKLAMP AND DOME LAMP CIRCUITS
- SD0315: TURN SIGNAL & STOP LAMP CIRCUITS
- SD0316: ELECTRIC HORN, BEACON, LUBRIQUIP (AUTO CHASSIS LUBE), AND FLOODLAMP CIRCUITS
- SD0317: CAB HEATER WIPER/WASH CIRCUITS
- SD0318: HEATED MIRROR CIRCUITS
- SD0319: FUEL HEAT & AIR DRIER CIRCUITS
- SD0320: CIRCUIT/LED LOCATIONS, IGNITION, BATTERY AND LAMP POWER PANELS
- SD0321: A/C CLUTCH CIRCUITS
- SD0335: ECM POWER SUPPLY AND FAN CLUTCH - ISB07
- SD0336: THROTTLE PEDAL AND J1939 DATALINK - ISB07
- SD0338: GRID HEATER AND COOLANT LEVEL SENSOR - ISB07
- SD0337: WARNING LIGHTS AND DIAGNOSTIC SWITCH - ISB07
- SD0327: TCM TD TRANSMISSION
- SD0328: VEHICLE INTERFACE TD TRANSMISSION
- SD0329: TCM TD DASH CONTROLS, DATALINK INTERFACE & SPEEDO
- SD0330: ABS/ATC SCHEMATIC
- SD0331: ABS/ATC SCHEMATIC

NOTE: SOME FUNCTIONS SHOWN IN THIS WIRING DIAGRAM ARE OPTIONAL AND MAY NOT BE INCORPORATED IN YOUR SPECIFIC TRACTOR

SCHEMATICS, ISB07; W/ VISTA IIE WIRING



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0.XXX	± 0.010
ANGLE	± 1°

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MATERIAL	-
FIRST USED	-
ERIN	-

DRW	J WESSON	DATE	16OCT07	SIZE	PART NO.	REV.
CHK	CR	DATE	16OCT07	A	SD0339	-
SCALE	-	SHEET	1 OF 1			

SWM	CHANGE	ERN	DATE	BY
REVISIONS				