

FOR CHASSIS BUILT AFTER 11/15/05

SH NO.	TITLE
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- 4) NEGATIVE POWER DISTRIBUTION
- 5) +12V POWER AND STARTING
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- 7) HORN
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- 9) HVAC CUMMINS / CATERPILLAR
- 10) TURN SIGNAL / STOP / HAZARDS / AUX TRAILER
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- 35) E-BASIC ABS CHASSIS HARNESS
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- 40) EATON TOP 2 TRANSMISSION
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- 42) ENGINE BRAKE / CRUISE CONTROL / DIAGNOSTIC
- 43) RADIO
- 44) SPARE POWER SYSTEM EXPANSION SLEEPER
- 45) CATERPILLAR CUMMINS ENGINE ECU / TPS / SPEED SENSOR / INTERRUPT / WARNING LAMPS
- 46) SMC SPEEDO MESSAGE CENTER
- 47) DATA LINK
- 48) CAB SPARE POWER / SYSTEM EXPANSION
- 49) CB RADIO
- 50) BACKLIGHTING +12VOLTS
- 51) NEGATIVE SWITCH LINKS
- 52) SPLICE LOCATION - DISTRIBUTION
- 53) SPLICE LOCATION - DISTRIBUTION
- 54) ASH TRAY
- 55) FUEL HOT LINE
- 56) CAB LOAD CENTER (CLC), NOTE: NO SERVICEABLE PARTS
- 57) SLEEPER LOAD CENTER (SLC), NOTE: NO SERVICEABLE PARTS
- 58) CHASSIS LOAD CENTER DECAL
- 59) TRAILER-DECAL
- 60) SLEEPER SPARES LOAD CENTER DECAL
- 61) CAB SPARES LOAD CENTER DECAL
- 62) TRAILER LOAD CENTER
- 63) FREEDOMLINE TRANSMISSION
- 64) AUTO SHIFT
- 65) ULTRASHIFT TRANSMISSION
- 66) SWITCHED 7th WIRE HOT
- 67) EATON VORAD
- 68) WARNING LIGHTS
- 69) WARNING LIGHT BAR
- 70) SPEED SENSITIVE DIFF LOCK
- 71) REMOTE KEYLESS ENTRY INSTRUMENTATION: SEE SH # 16, 47, 68 AND 387 INSTRUMENTATION MANUAL.
- 72) SLPR LOW VOLTAGE DISCONNECT
- 73) CUMMINS ICON2 IDLE CONTROL SYSTEM

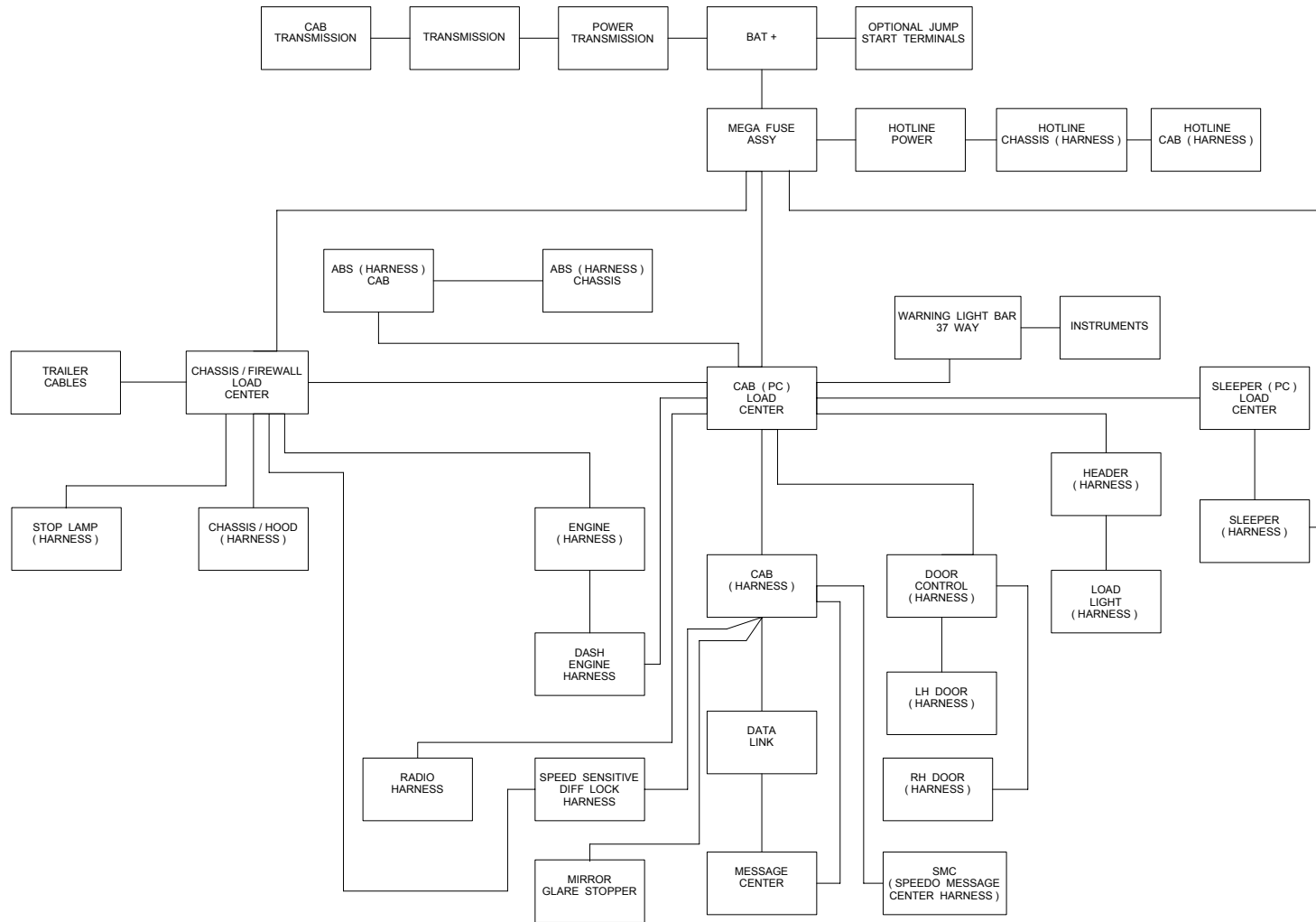
SYMBOL / ABBREVIATION KEY

- 1) ⊗ STUD
- 2) ● SPLICE
- 3) ○ RING TERMINAL CONNECTORS
- 4) NUMBERS EX CIRCUIT DESCRIPTION SUFFIX ALPHA

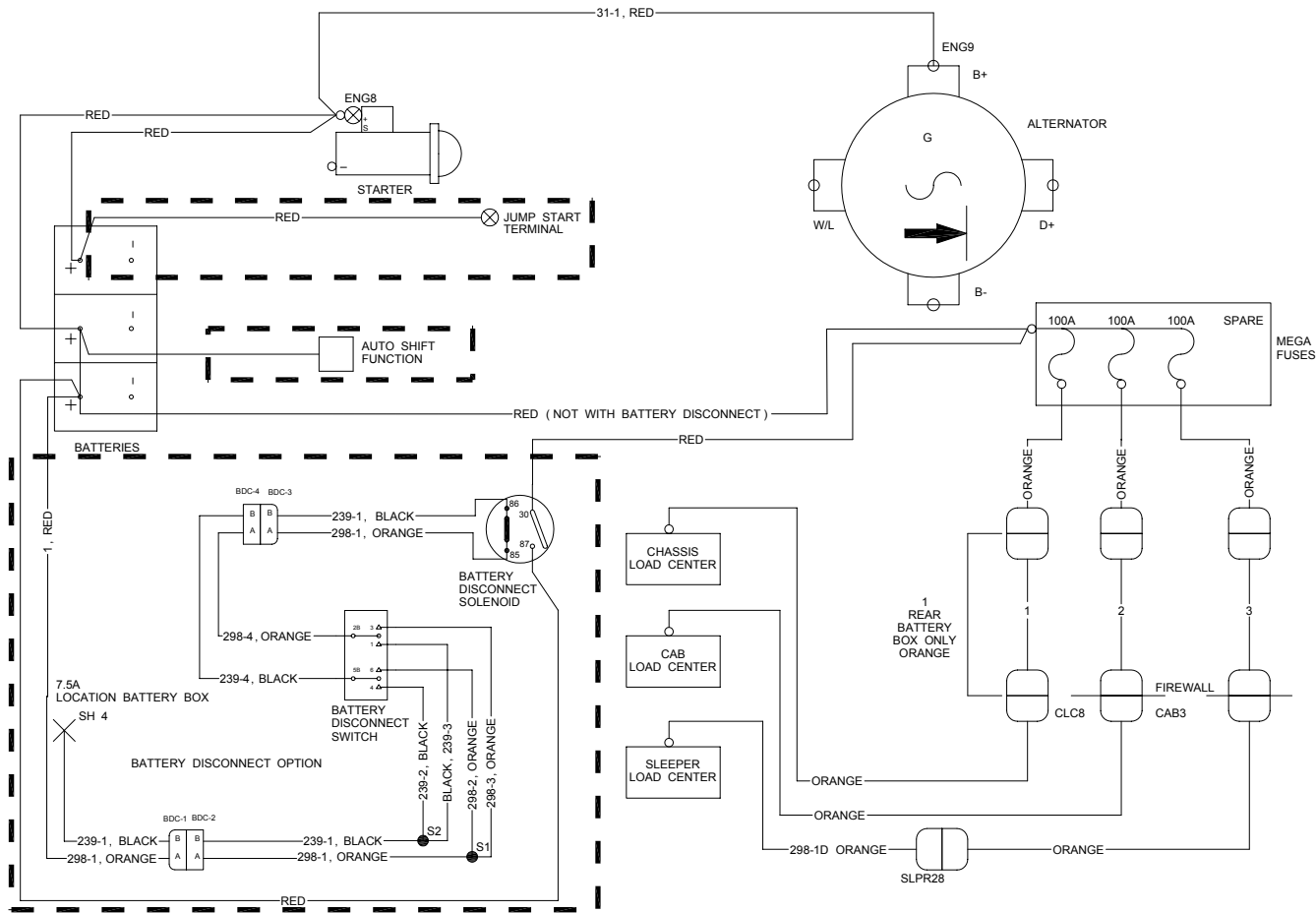
286	-1	A	NA
		←	←
- 5) — BUSS BAR
- 6) 1 CONNECTOR APPEARS ON MULTIPLE SHEETS
- 7) CLC CHASSIS LOAD CENTER
- 8) SLPR SLEEPER
- 9) TRLR TRAILER
- 10) ——— MULTI CORE CABLE
- 11) × CONTINUED TO OTHER SH XX
- 12) ▲ MOMENTARY CONTACT

○ CONTACT	} SWITCH	↑ SHEET NUMBER
○ CONTACT		
- 13) ⊕ BULB
- 14) ⊥ GROUND
- 15) —|> DIODE
- 16) —|> RESISTOR
- 17) —|> CAPACITOR
- 18) —|> POLYFUSE
- 19) —|> LIGHT-EMITTING DIODE

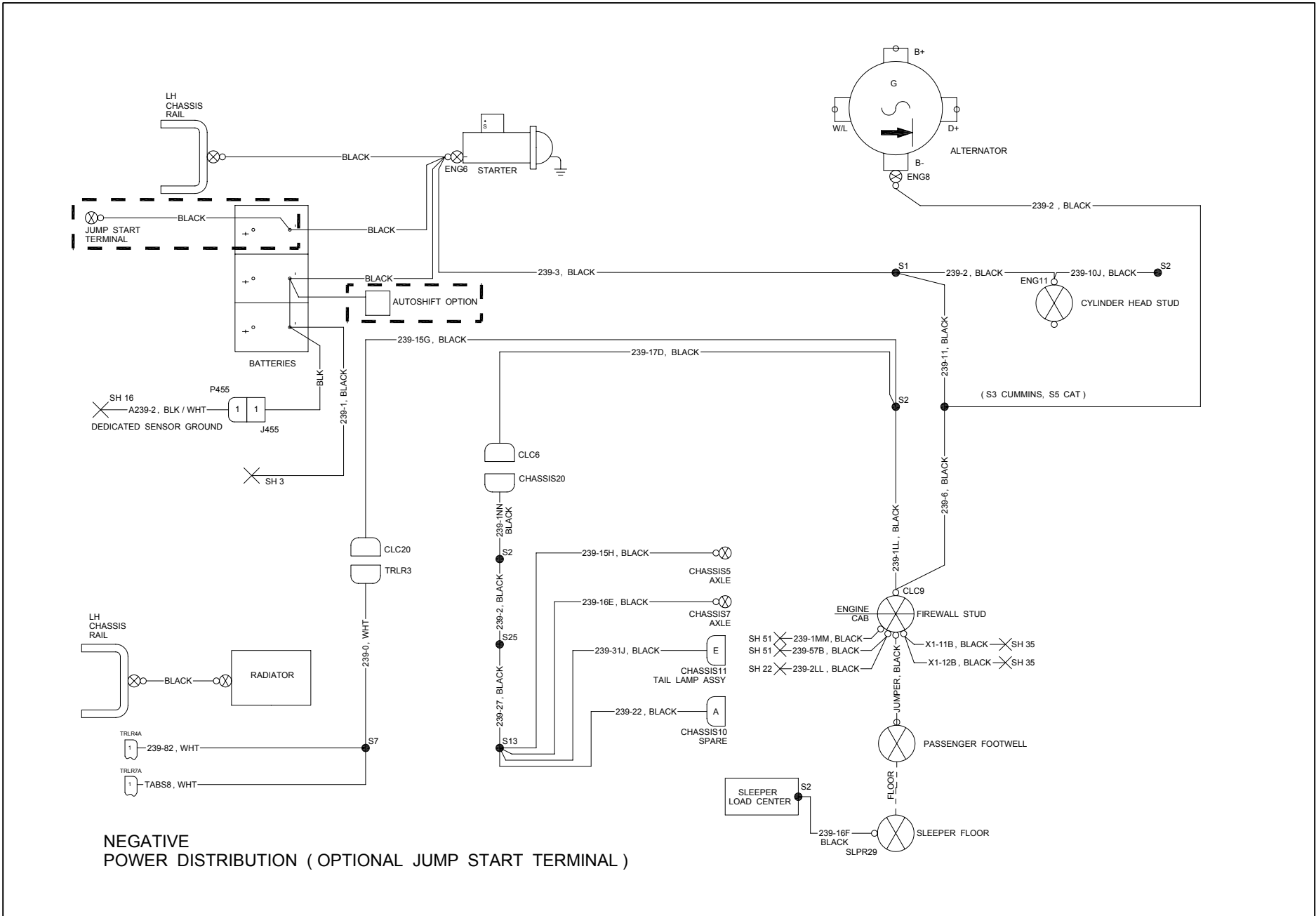
NOTE: FOR CHASSIS WITH TRAILER LOAD CENTERS (CHASSIS BUILT BEFORE 11/15/05) USE P94-6059 FOR WIRING INFORMATION

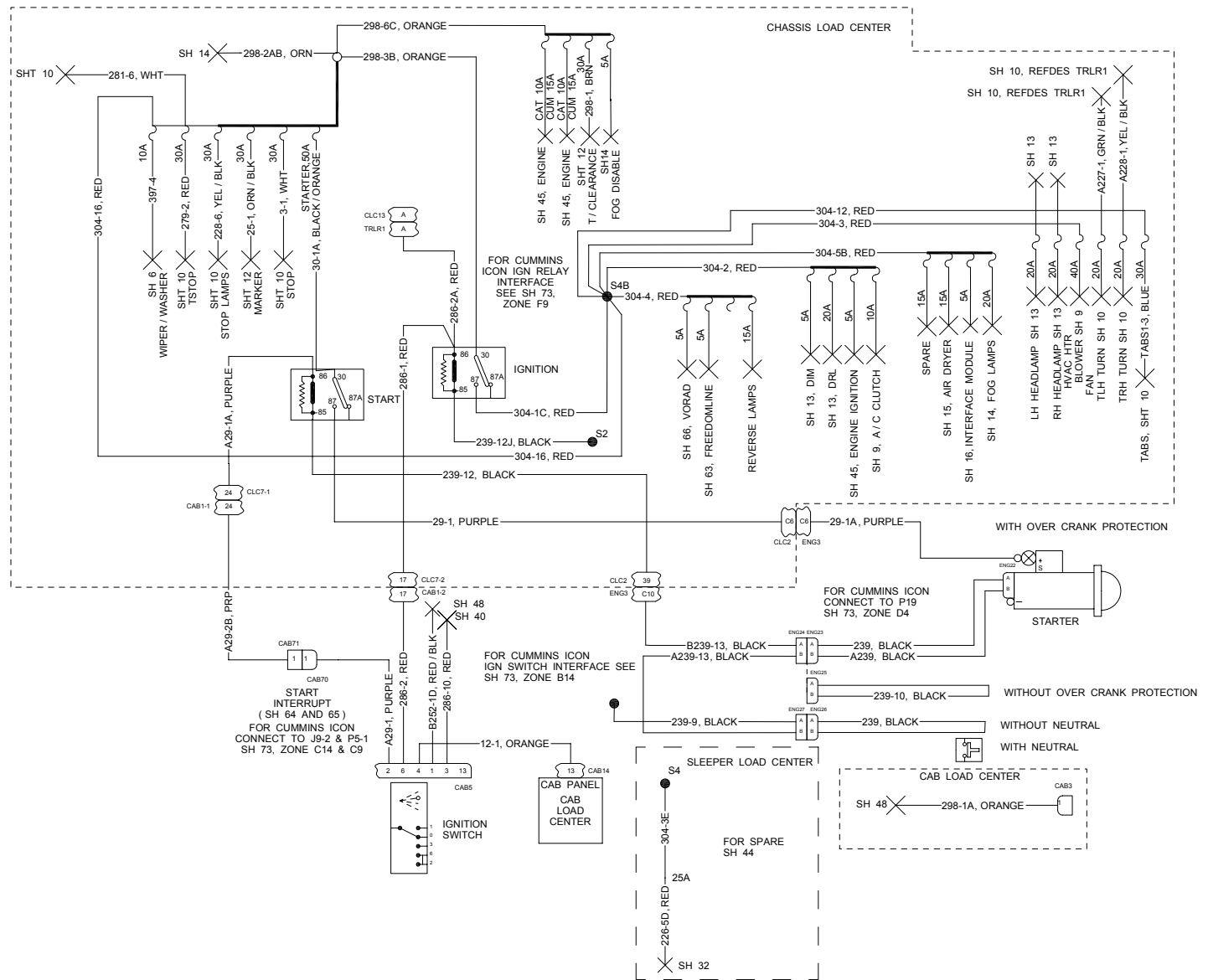


HARNESS FLOW CHART

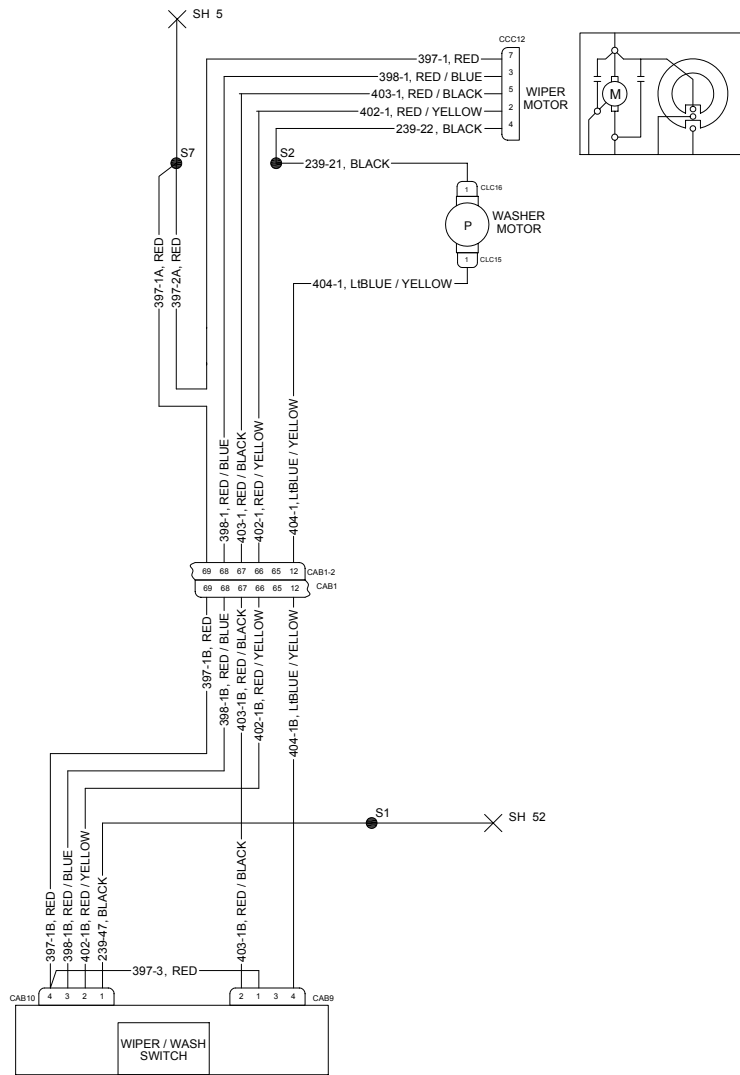


+12V POWER DISTRIBUTION (OPTIONAL DISCONNECT),
JUMP START TERMINAL

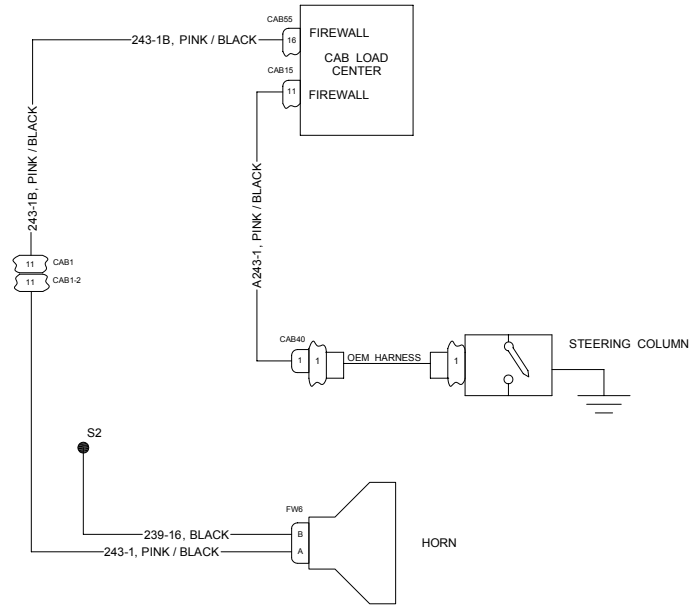




+12V POWER AND STARTING

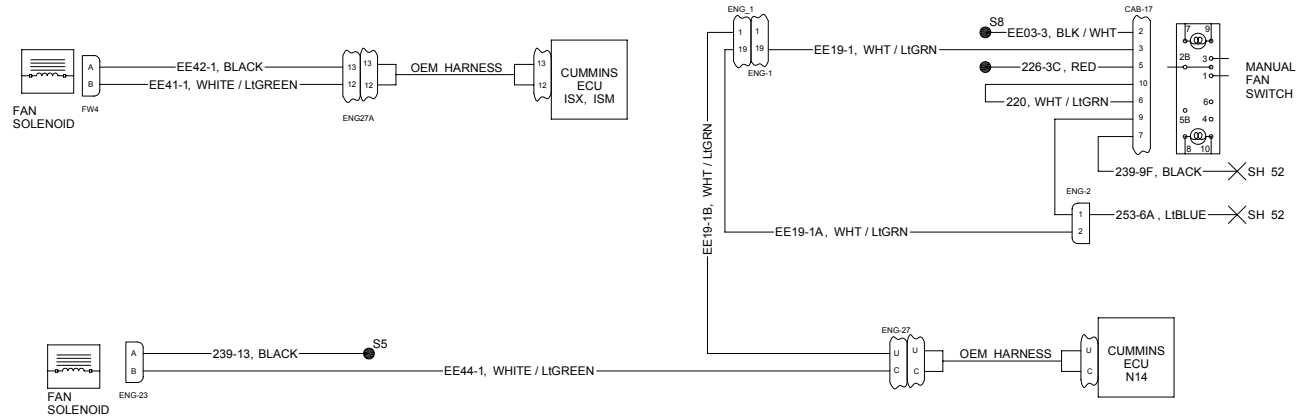


WIPER / WASHER

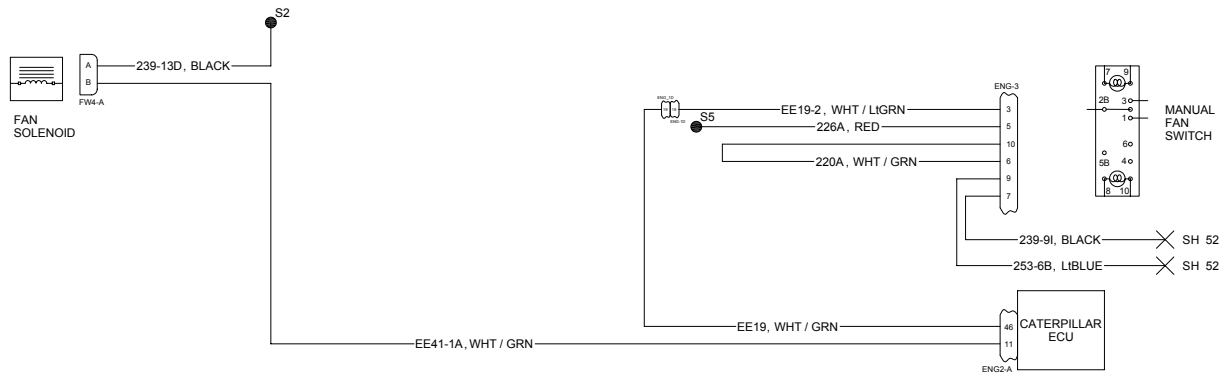


HORN

CUMMINS

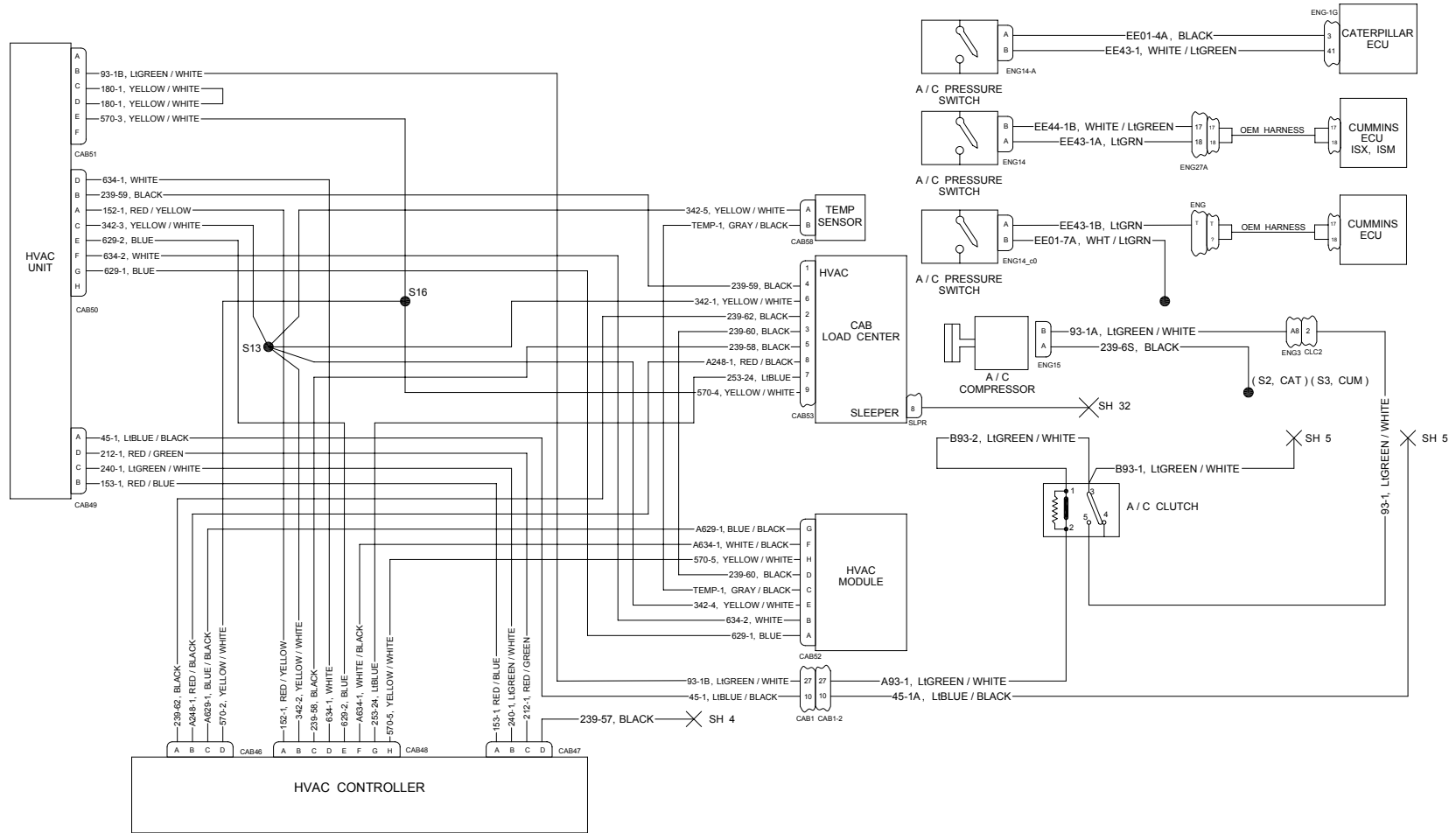


CATERPILLAR



NOTE: SEE BILL OF MATERIAL OR ECAT SYSTEM FOR SPECIFIC ENGINE SCHEMATIC DRAWING NUMBER

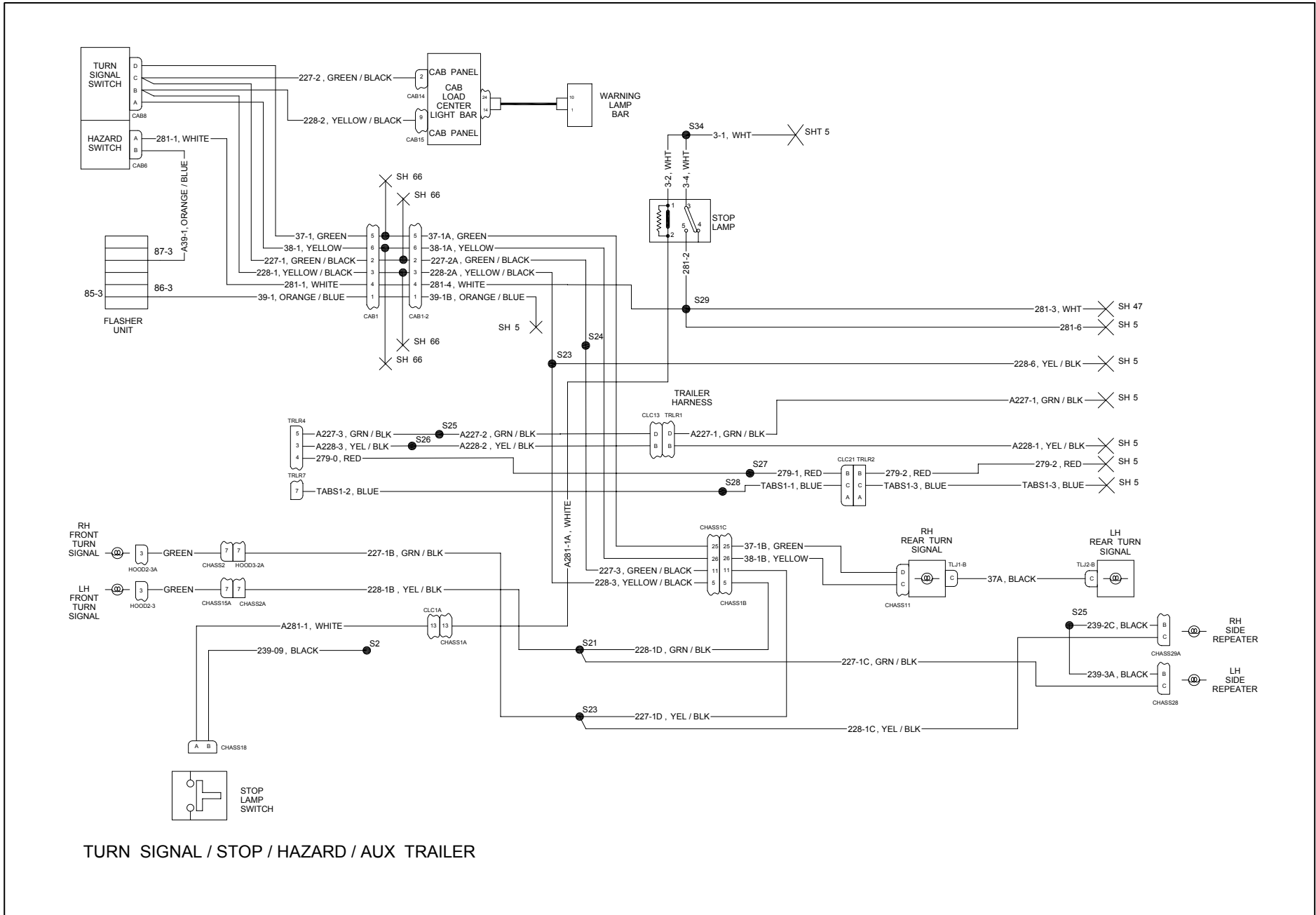
MANUAL FAN CONTROL

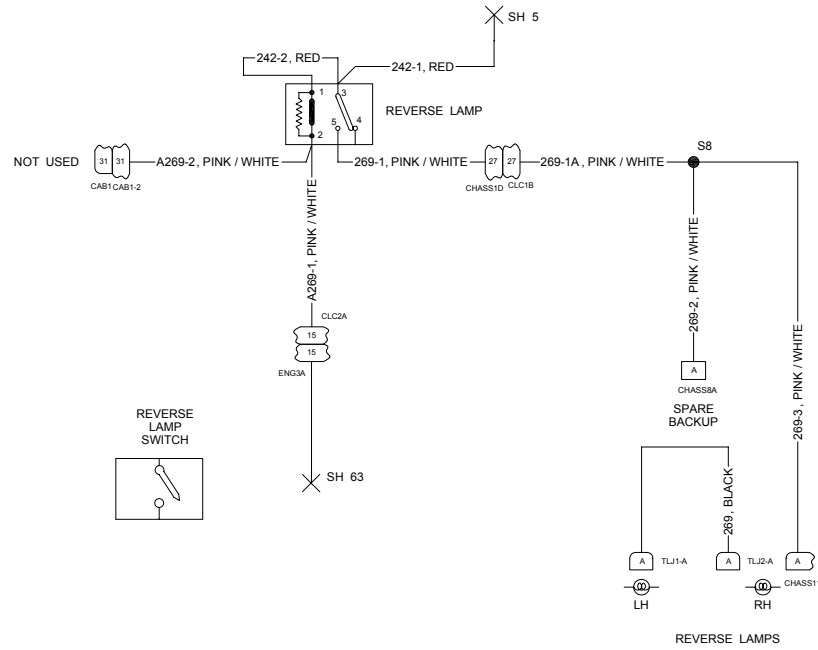


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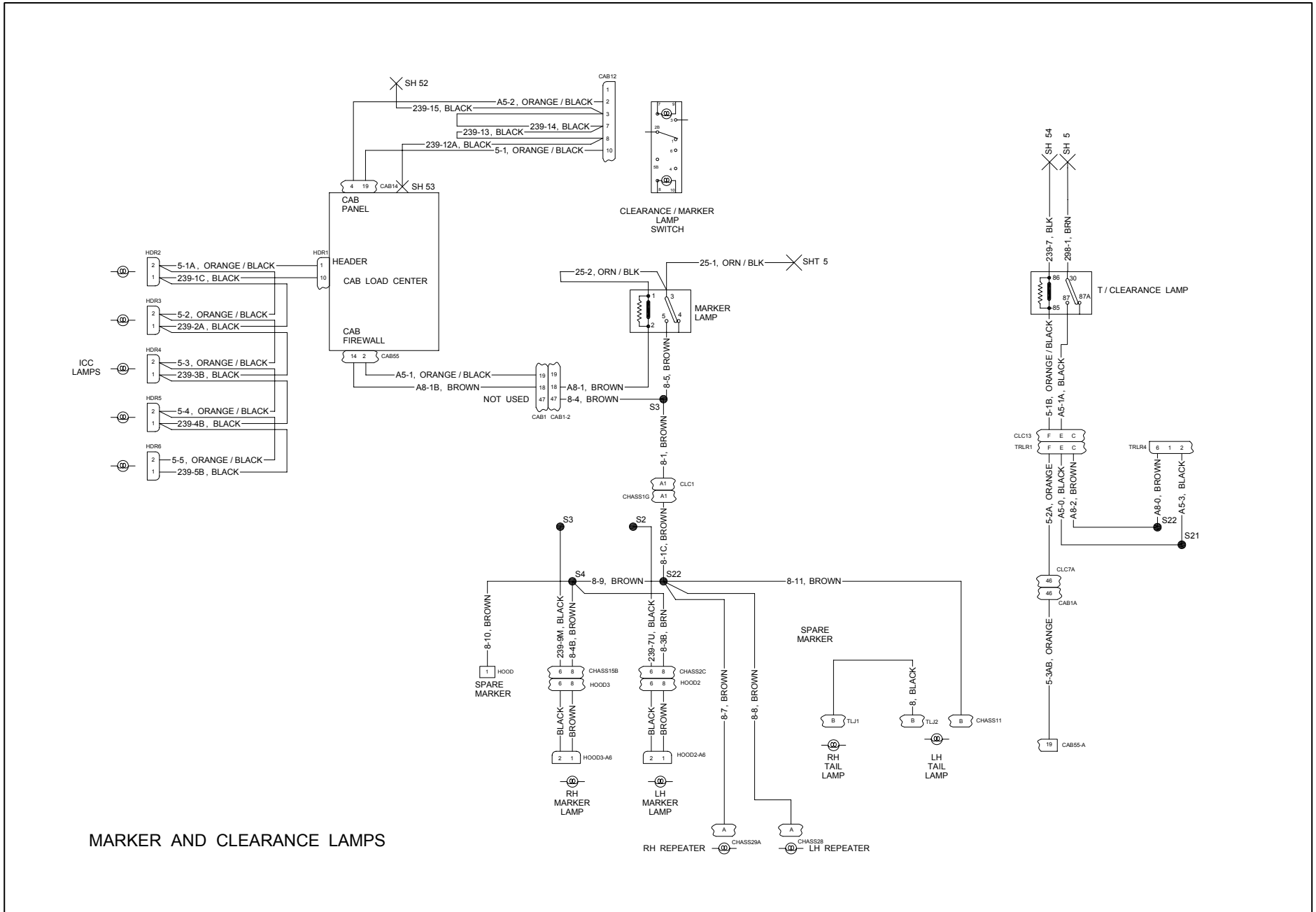
HVAC CUMMINS / CATERPILLAR



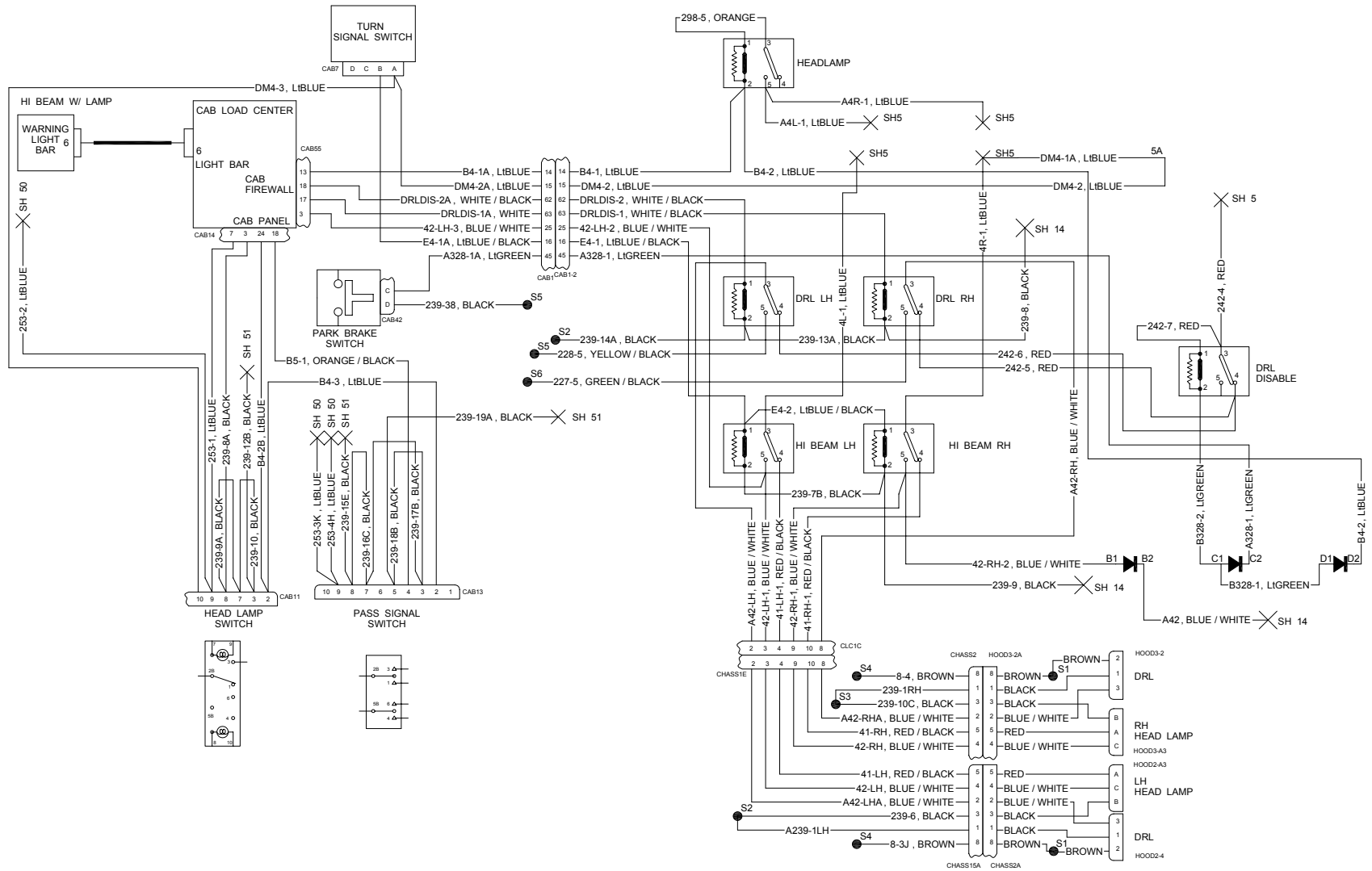




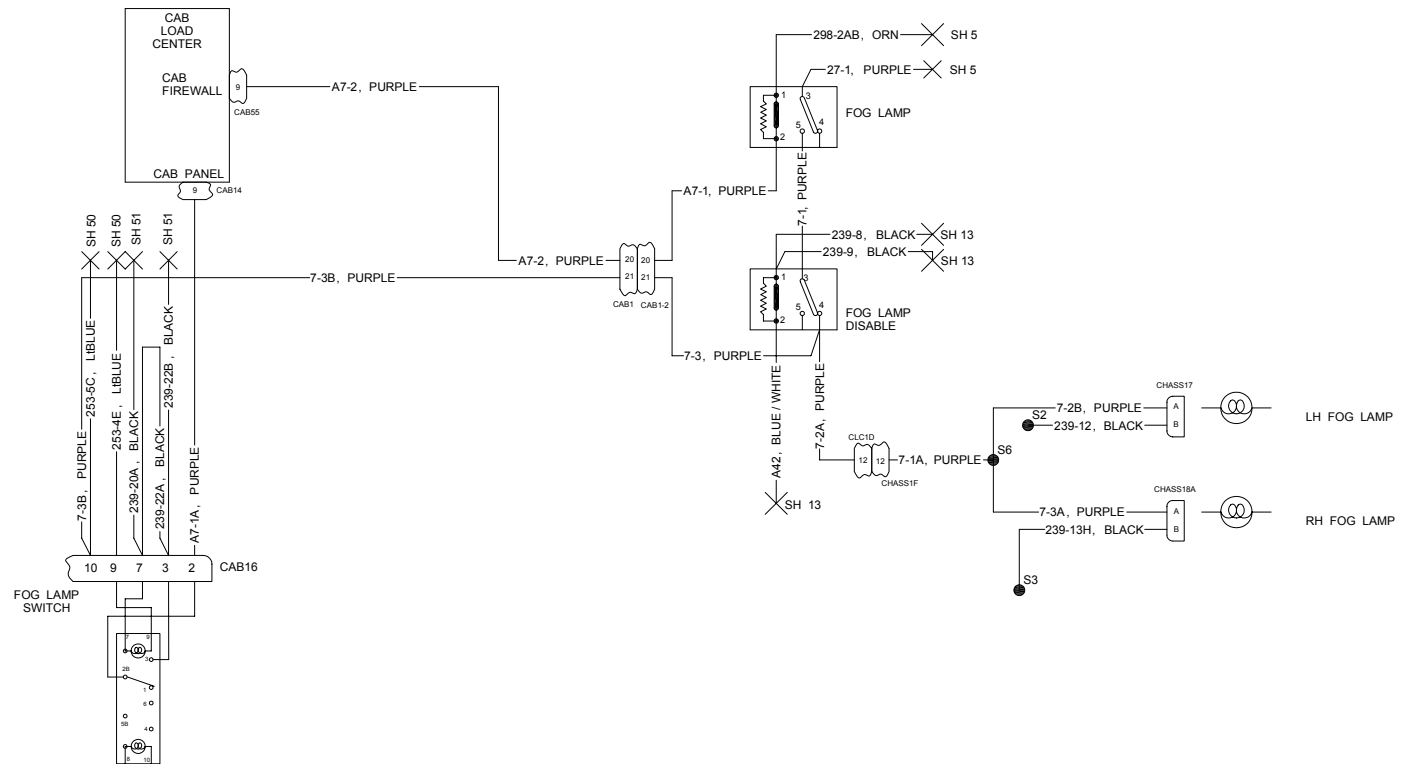
REVERSE LAMPS



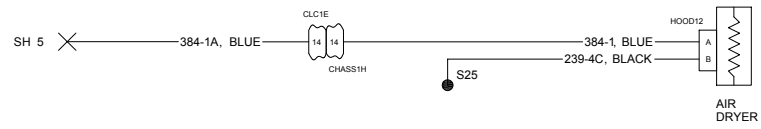
MARKER AND CLEARANCE LAMPS



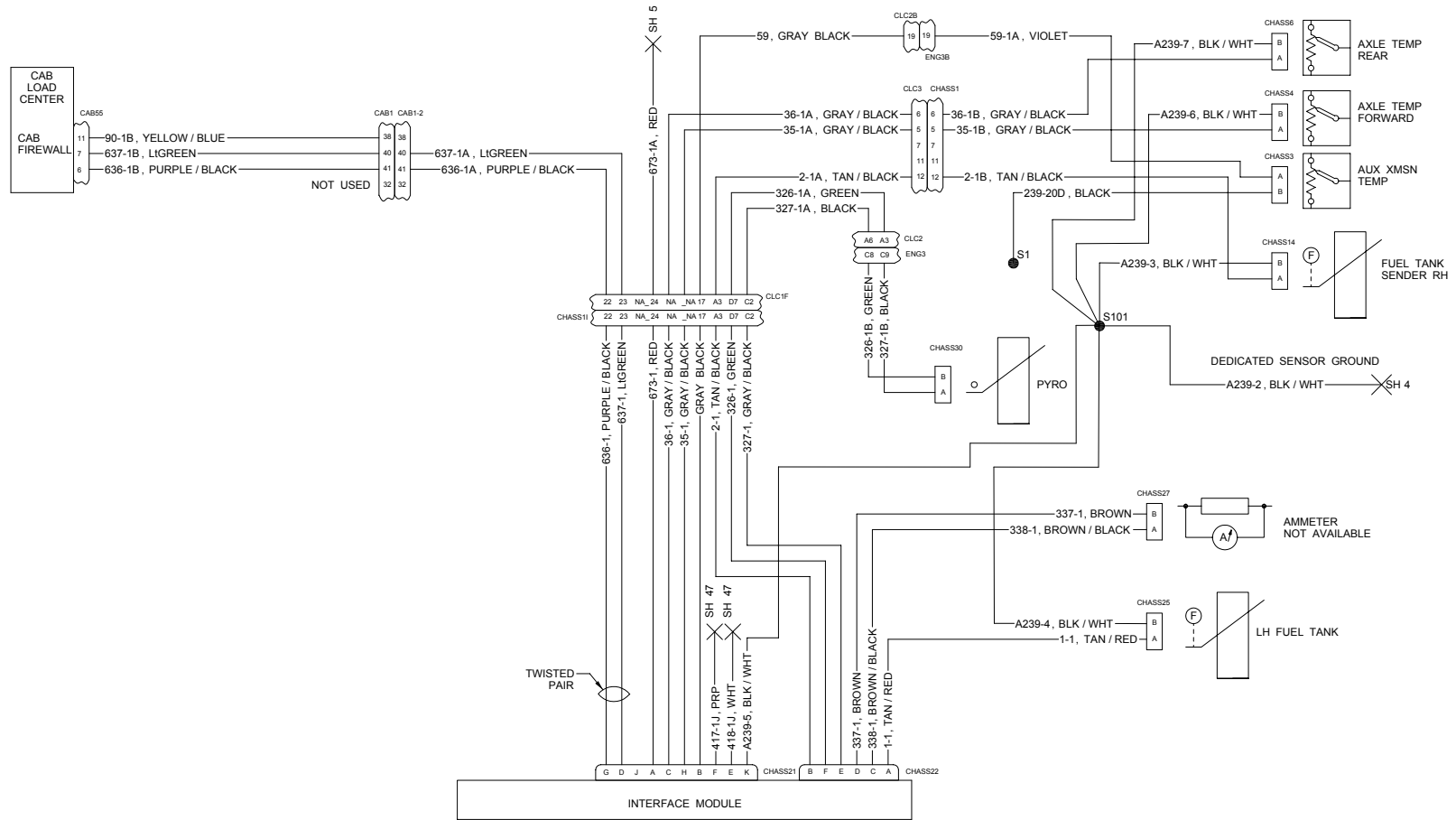
HEADLAMP / DRL



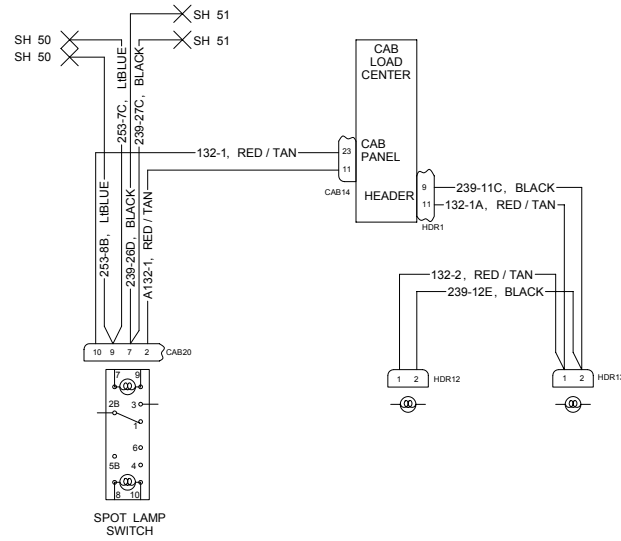
FOG LAMPS



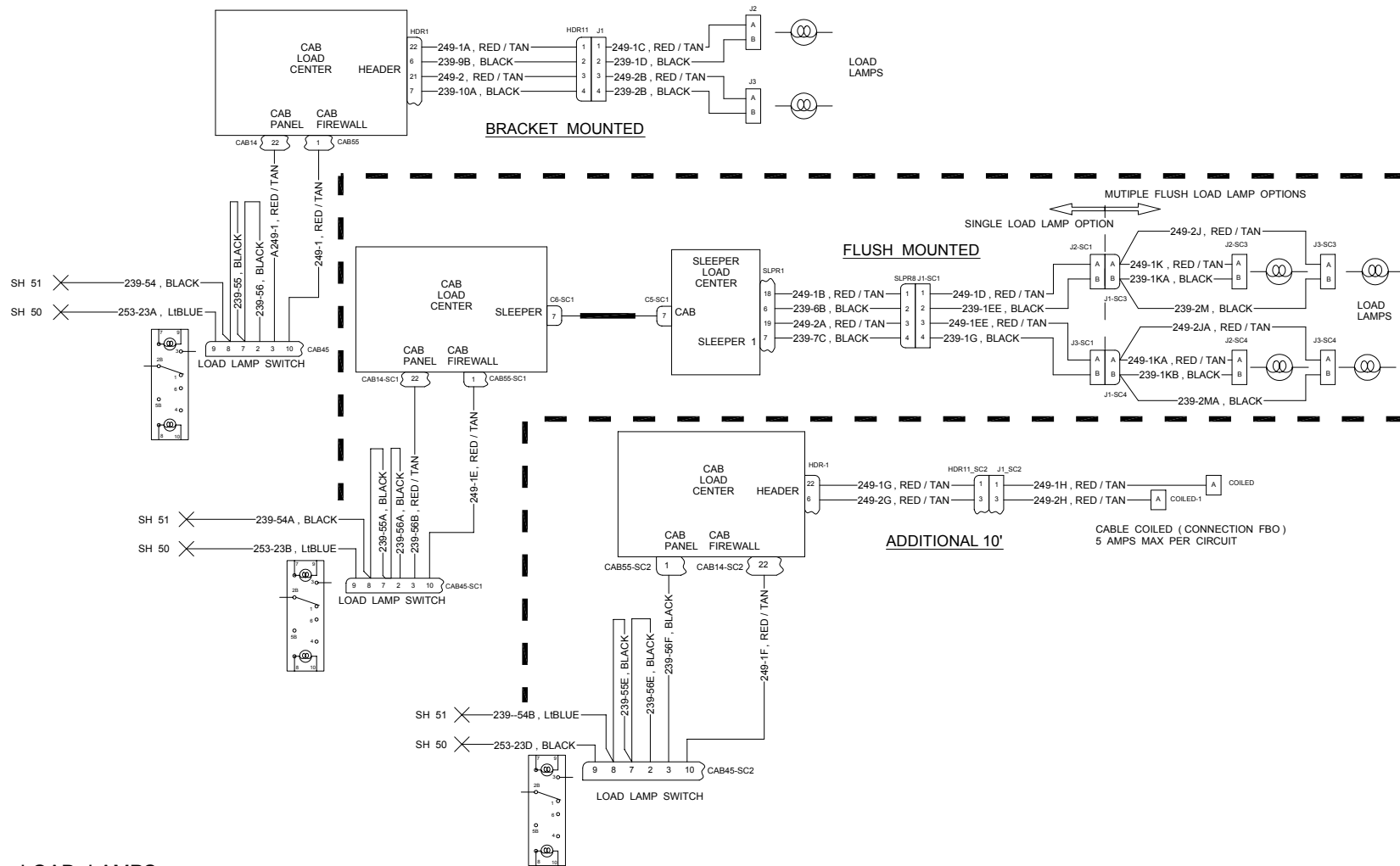
AIR DRYER



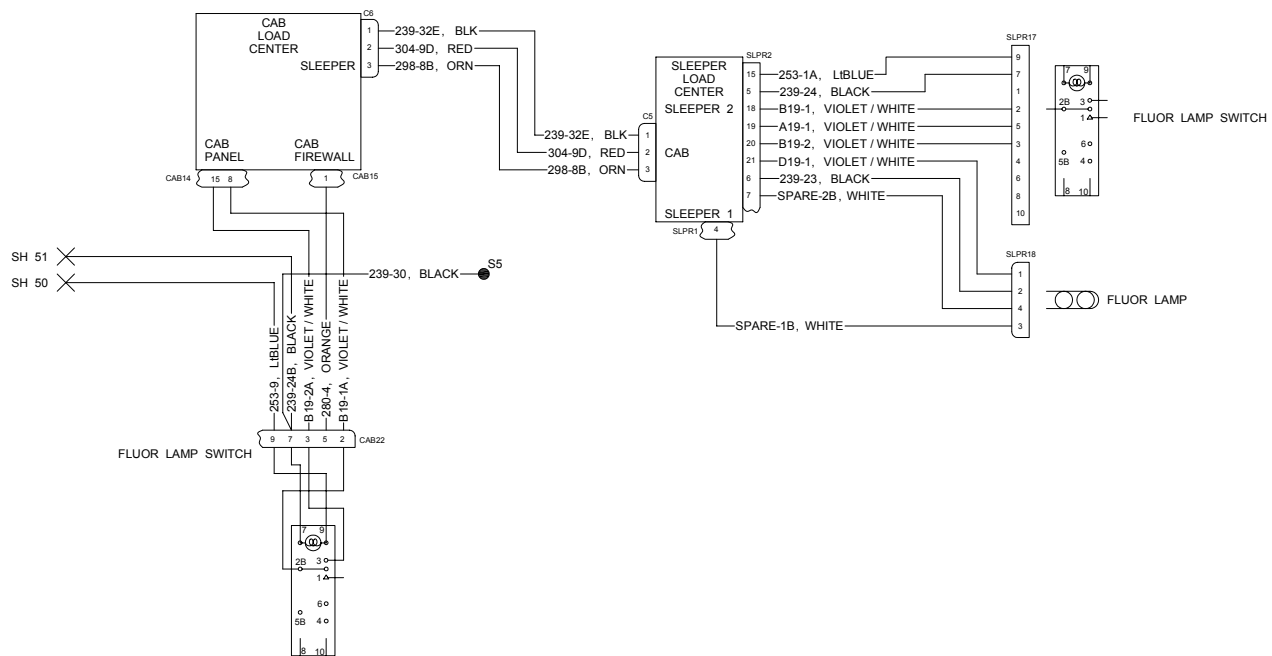
INTERFACE MODULE



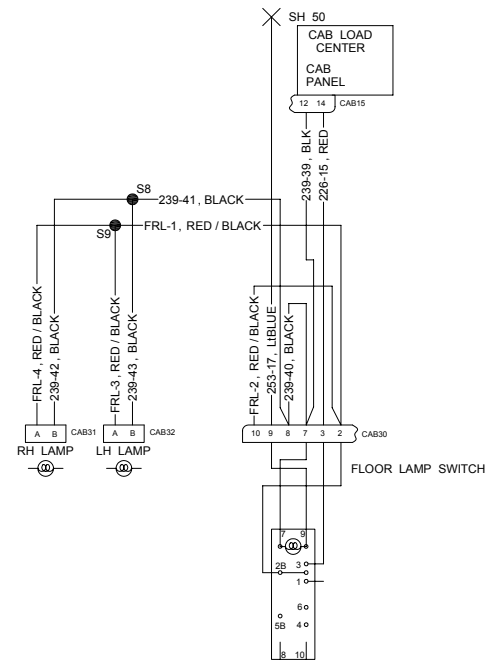
SPOT LAMPS



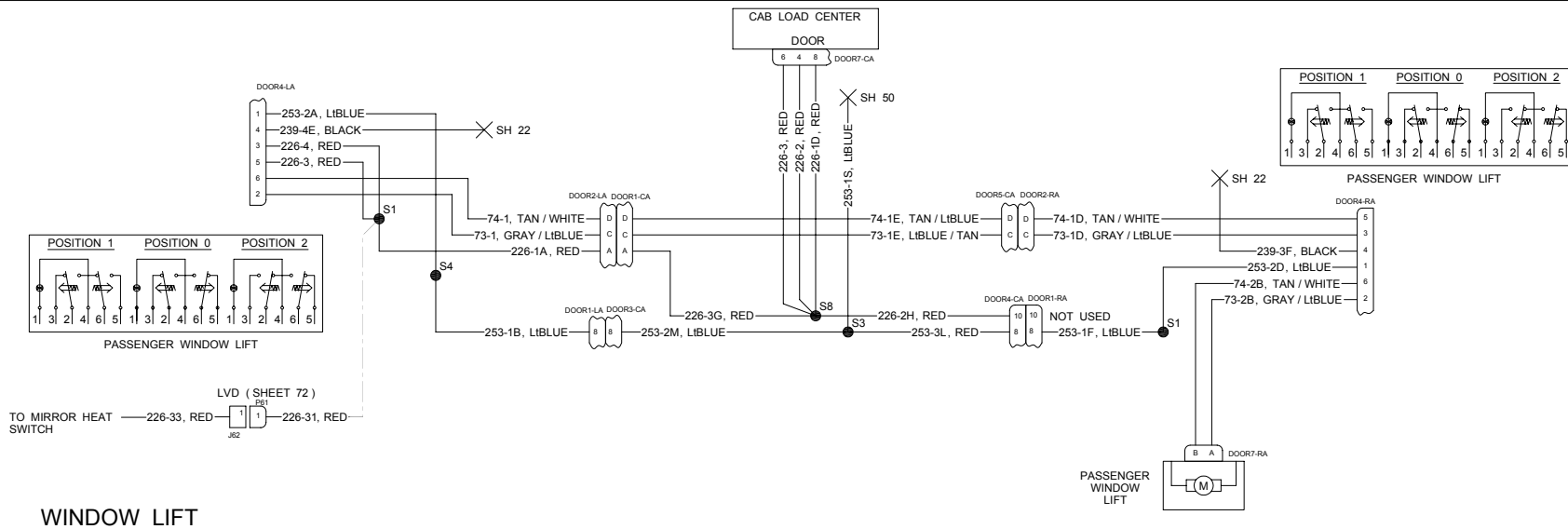
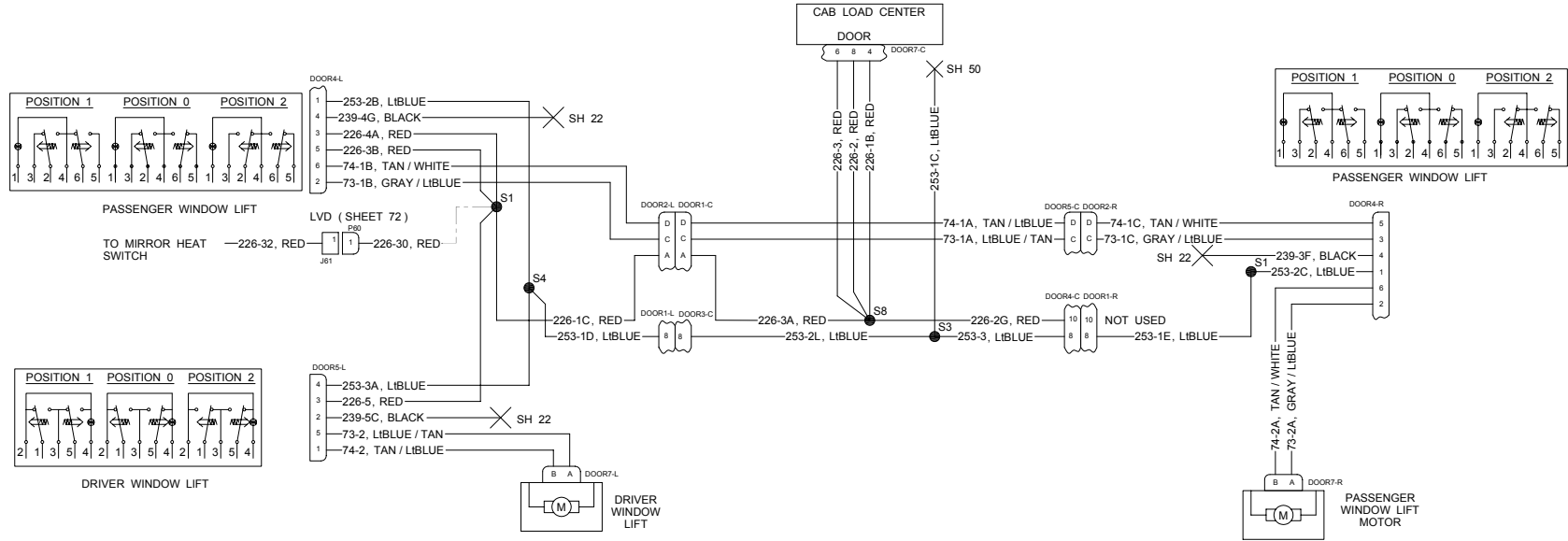
LOAD LAMPS
BRACKET MOUNTED / FLUSH MOUNTED AND MUTIPLE / COILED 10'

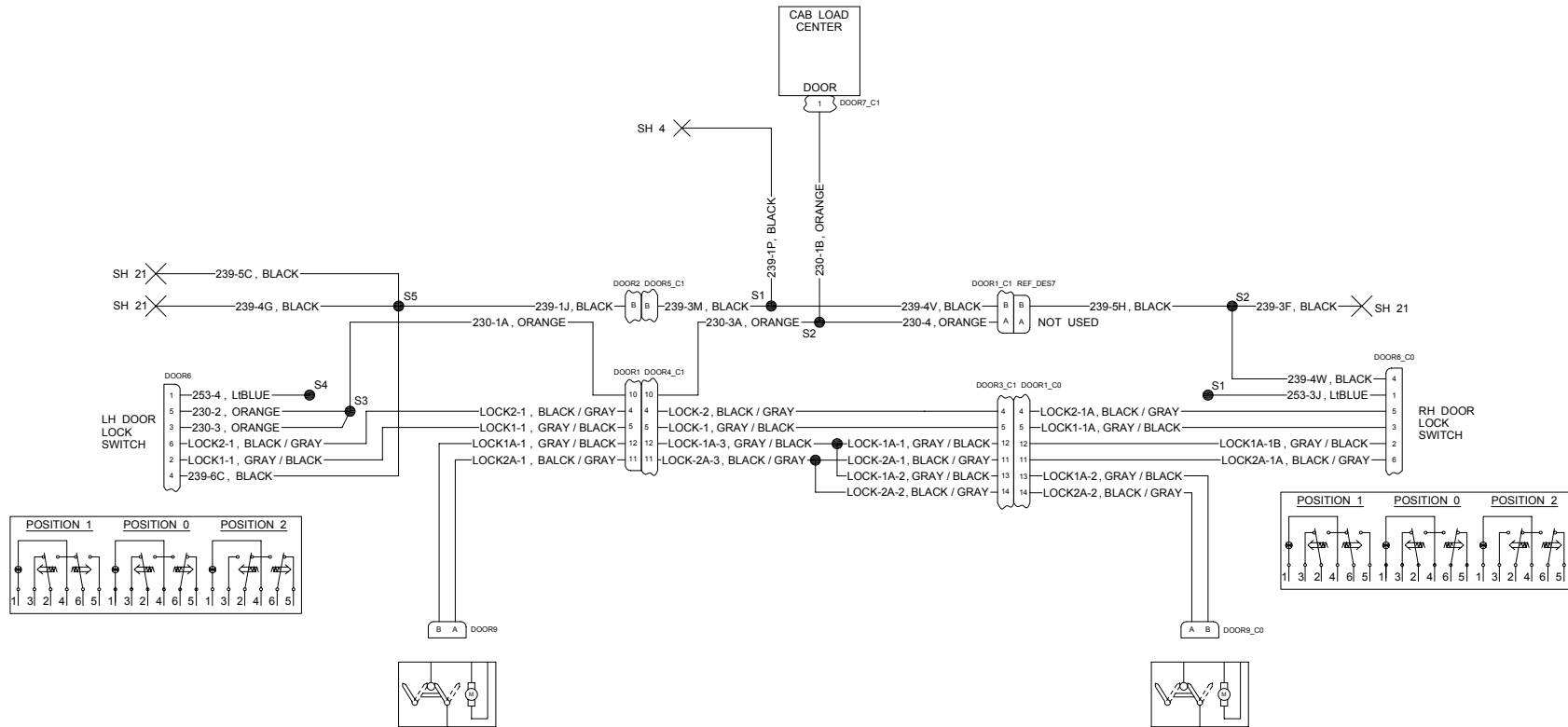


FLUORESCENT LAMP SLEEPER

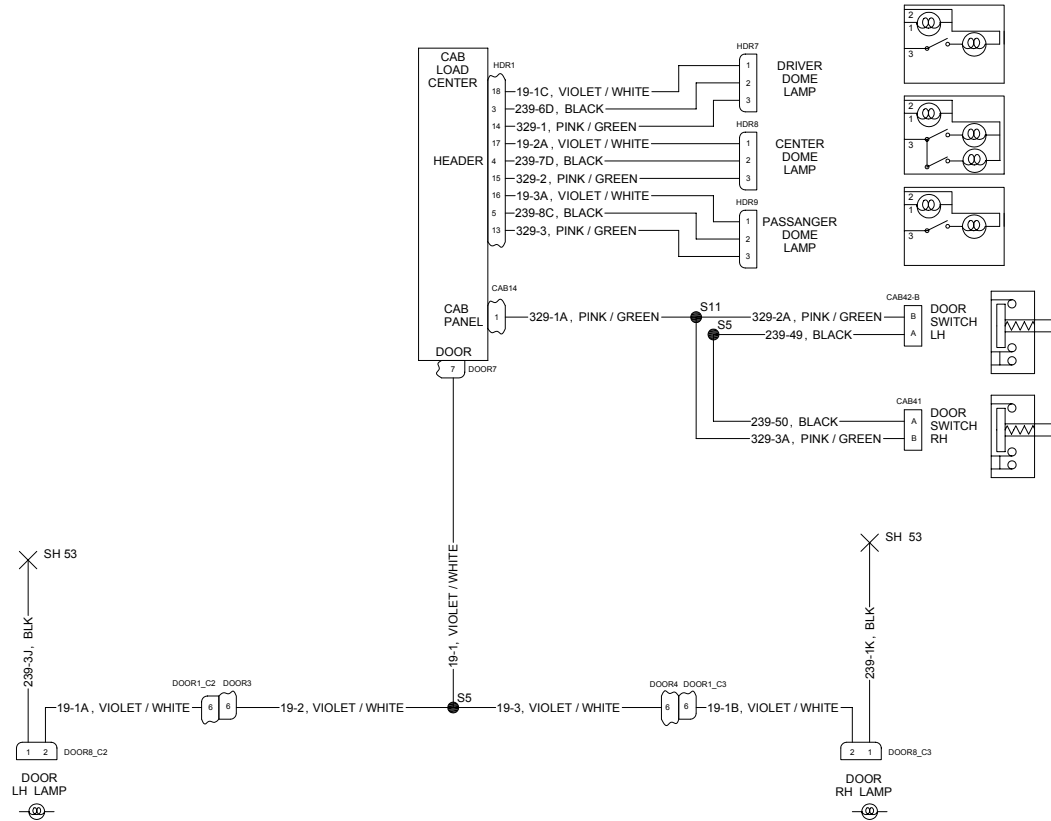


FLOOR LAMP

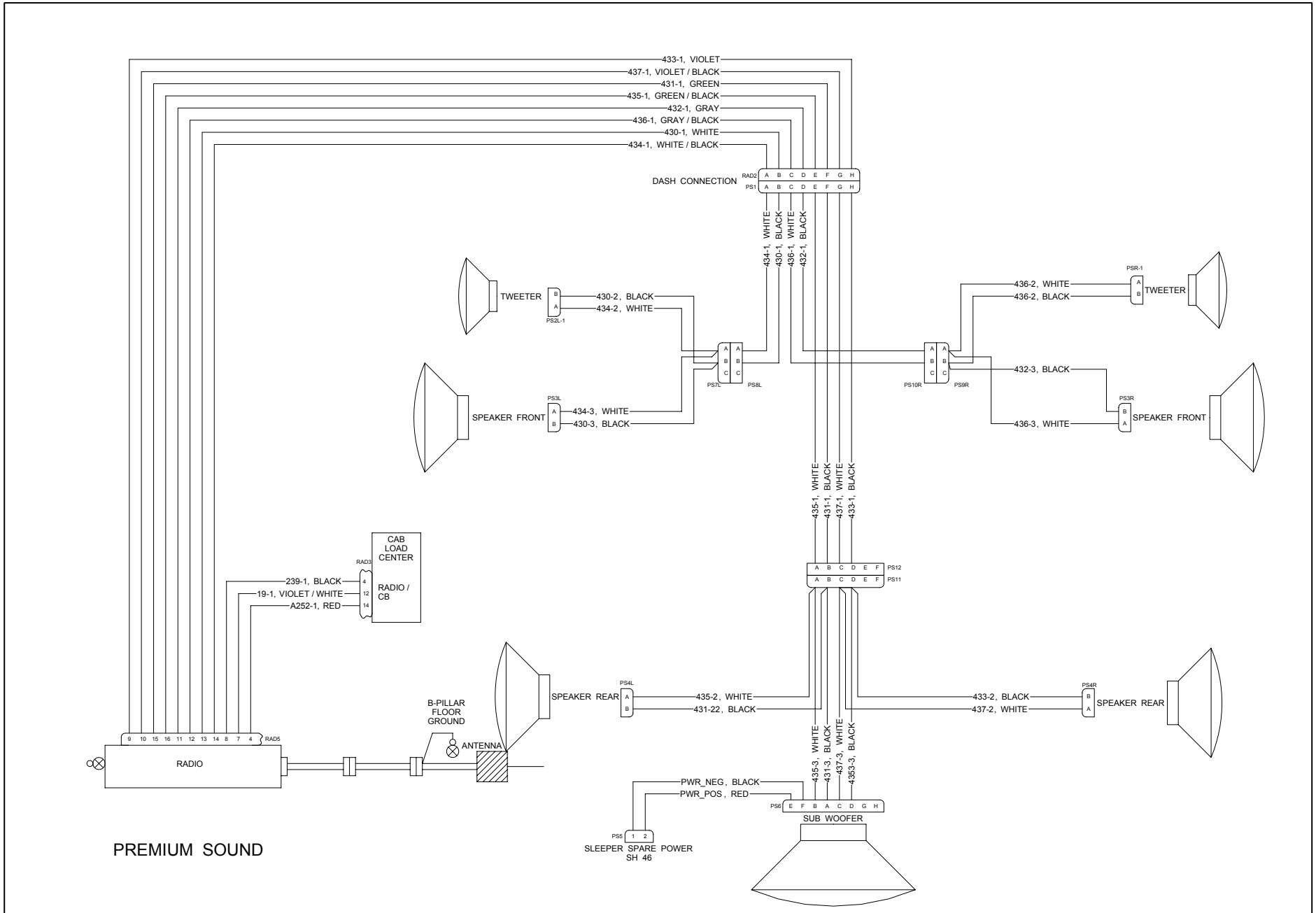


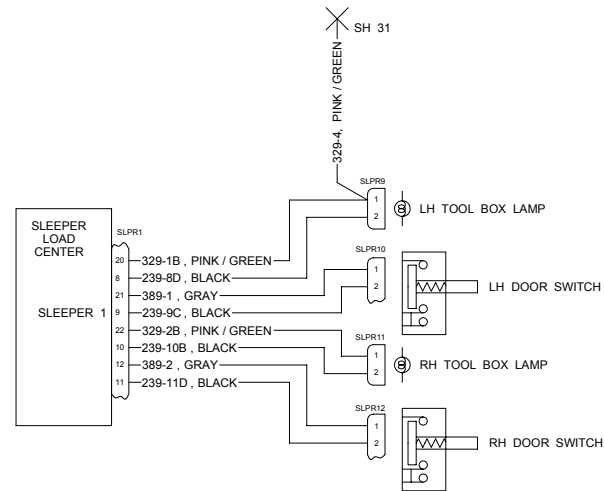


CENTRAL DOOR LOCKS

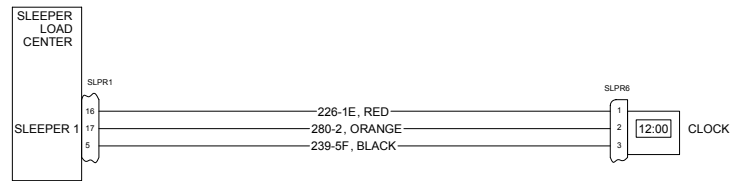


DOOR LAMPS / DOME LAMPS

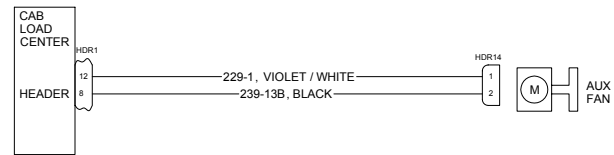




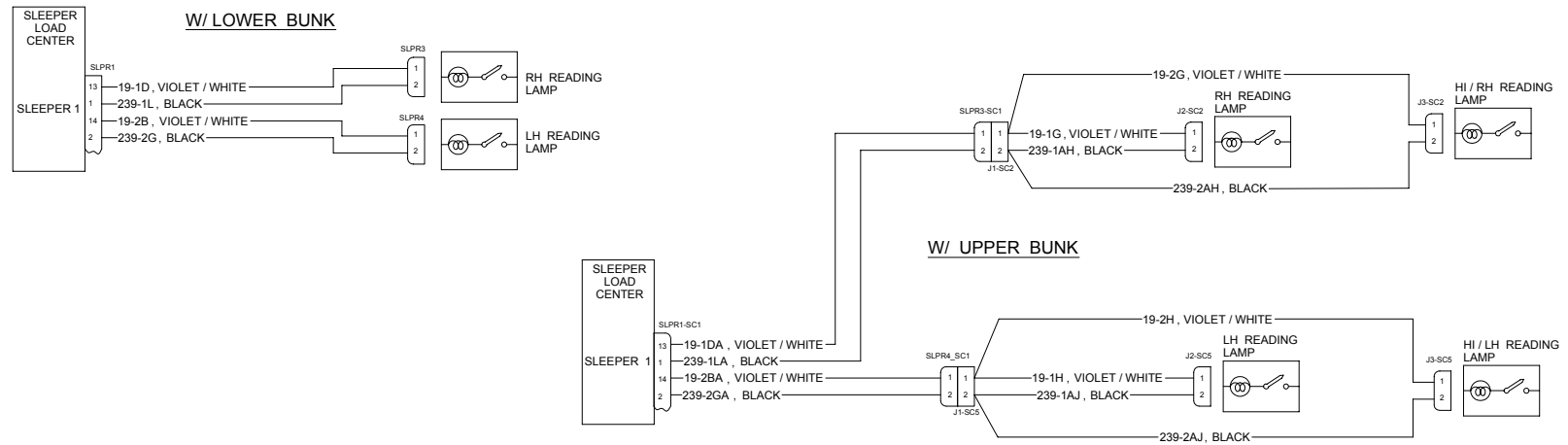
SLEEPER TOOL BOX LAMPS



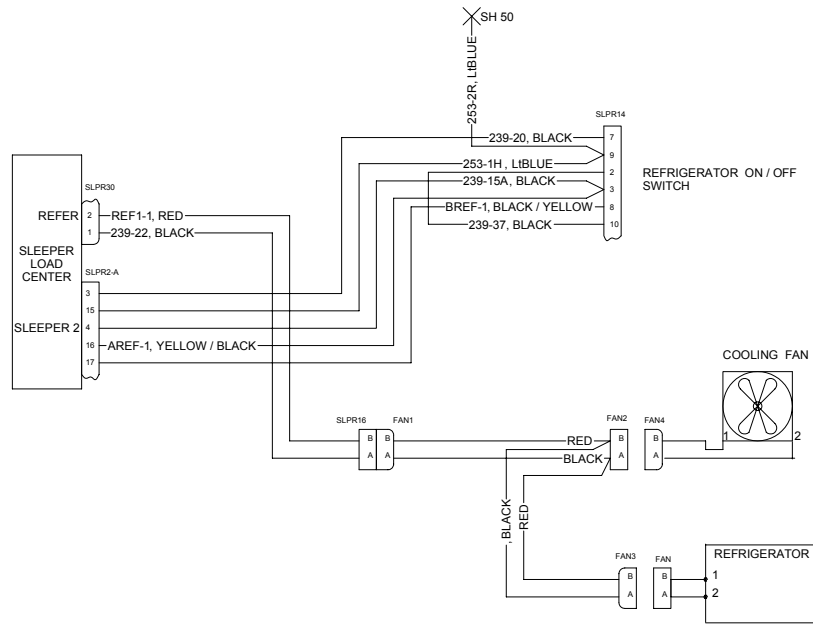
SLEEPER CLOCK



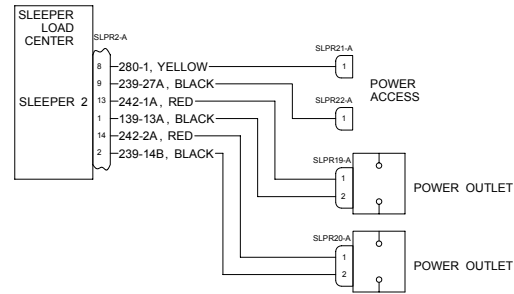
AUX FAN



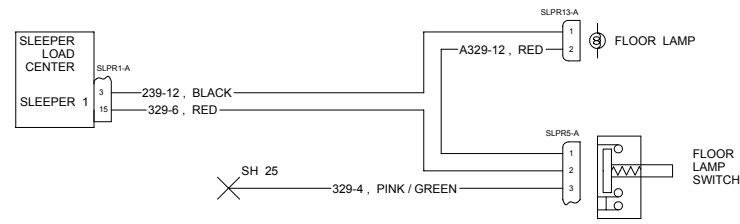
SLEEPER READING LAMPS



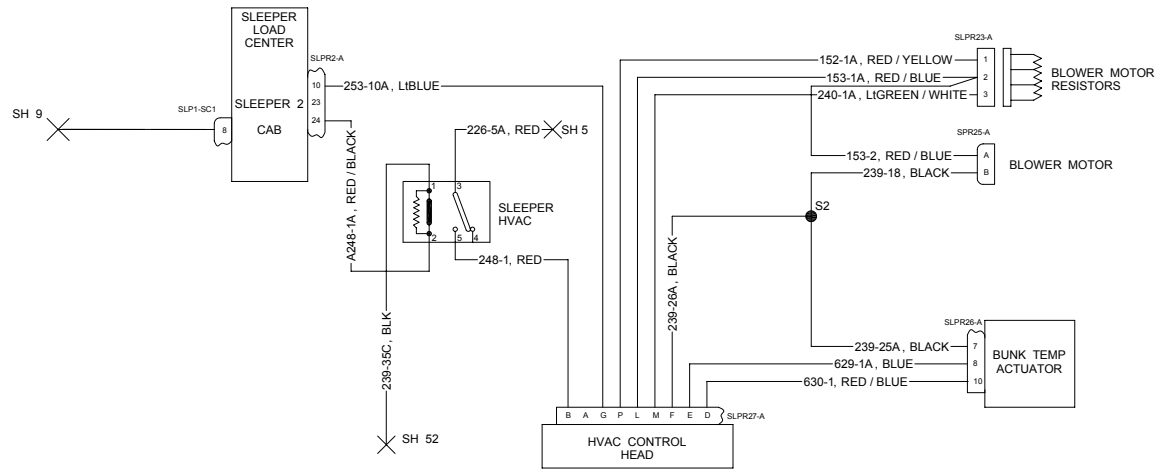
REFRIGERATOR UNIT / REFER



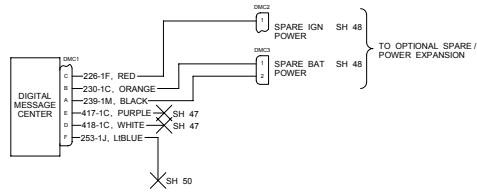
SLEEPER POWER ACCESS OUTLETS



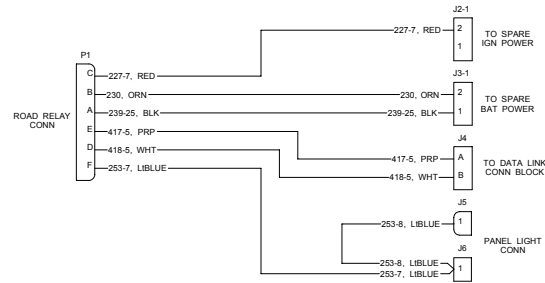
SLEEPER FLOOR LAMP



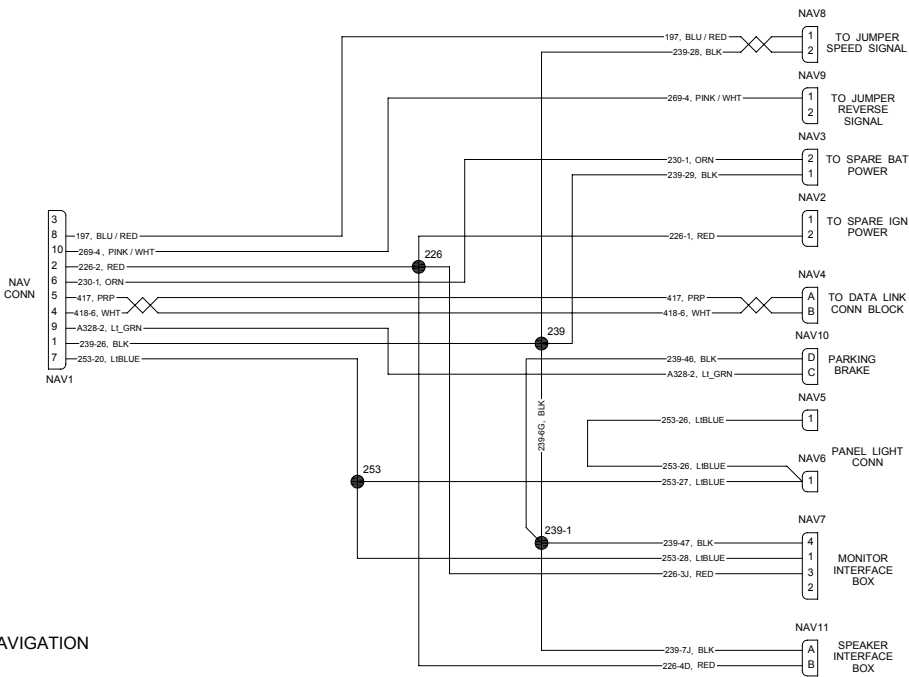
SLEEPER HVAC



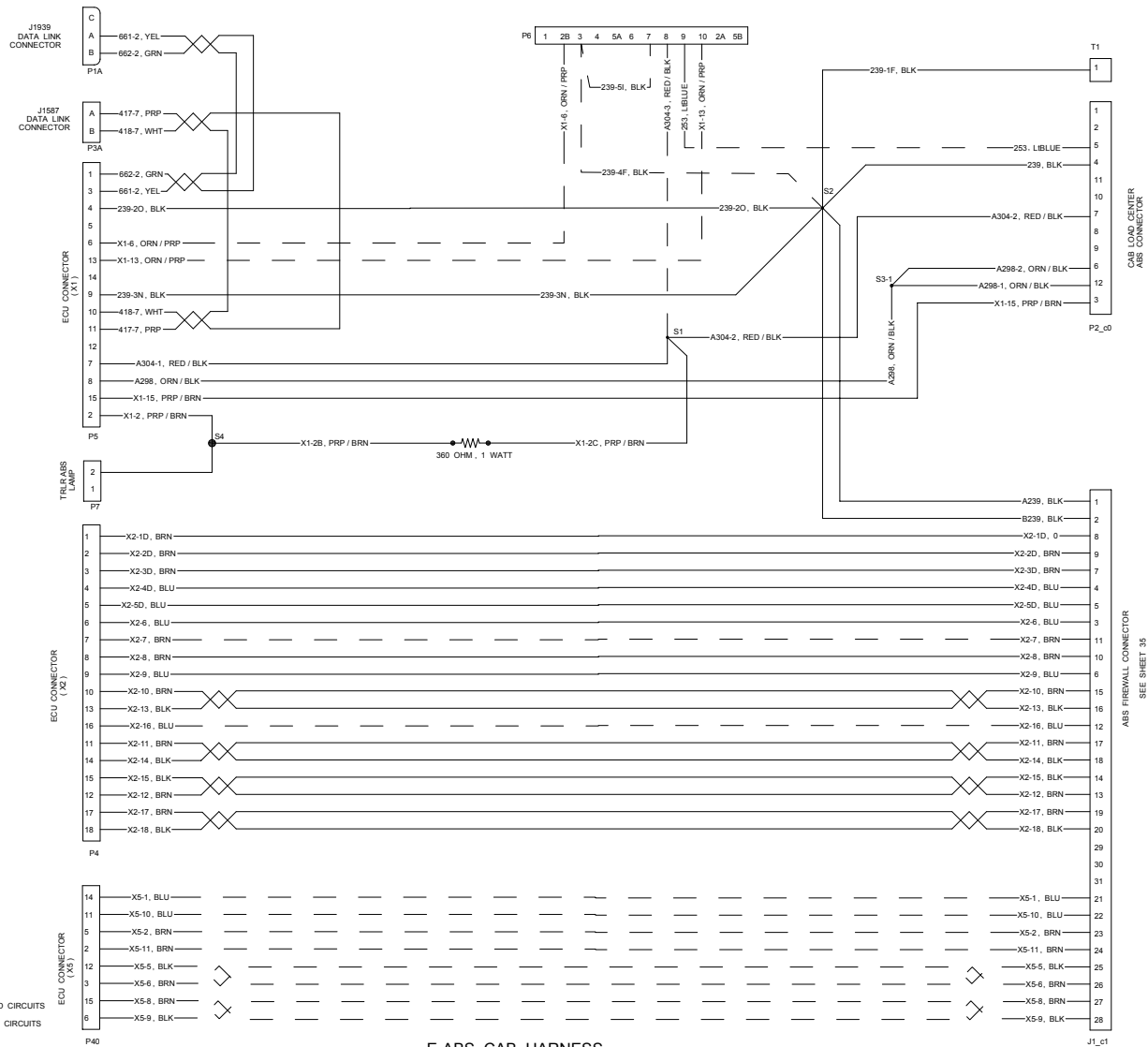
DIGITAL MESSAGE CENTER

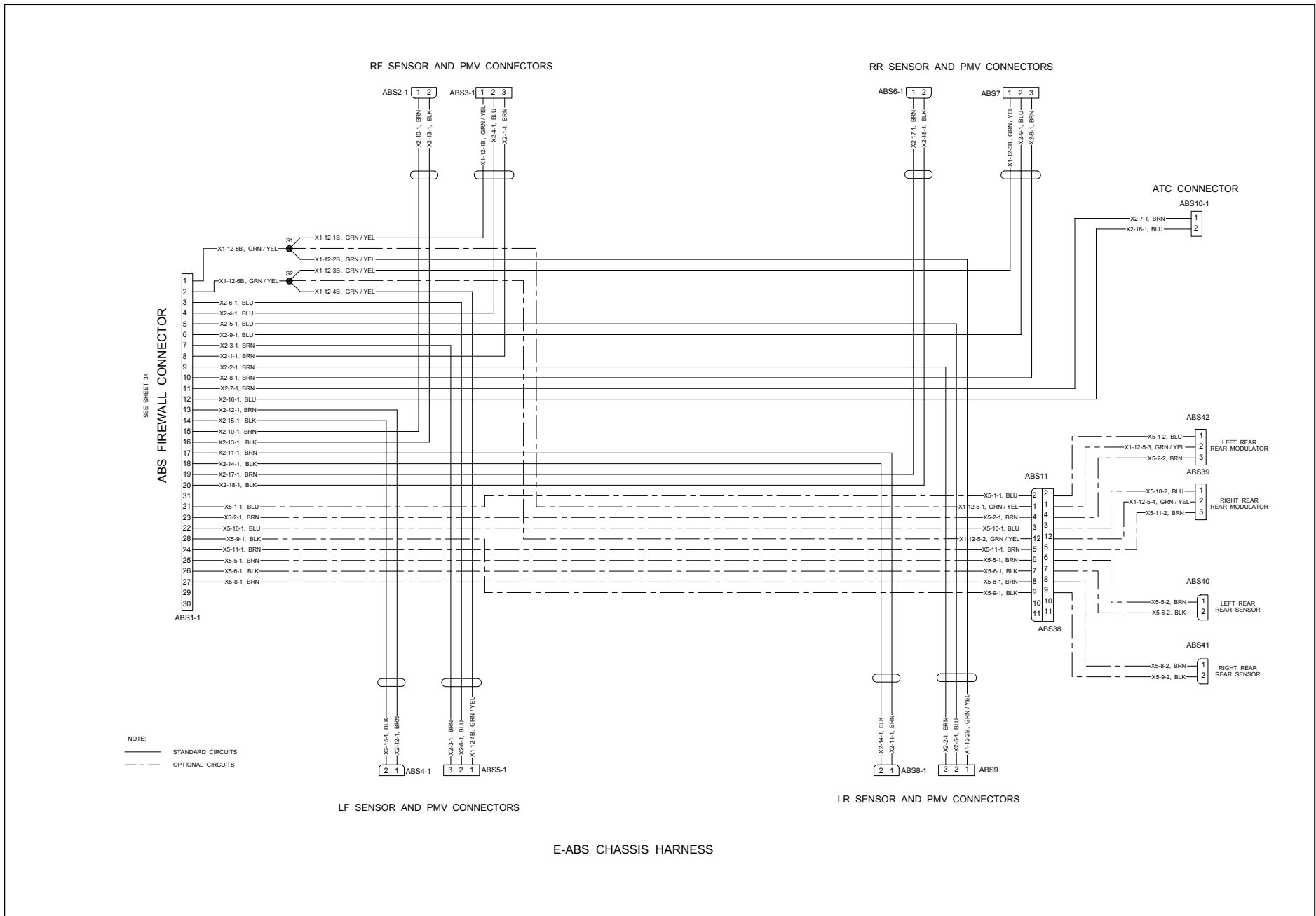


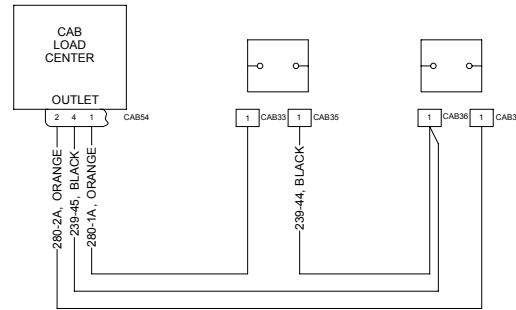
ROAD RELAY



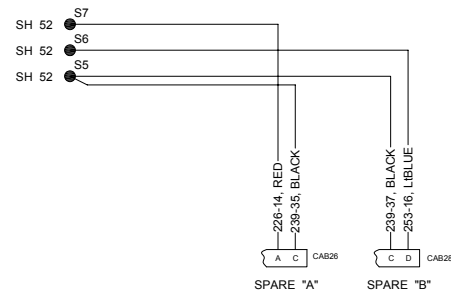
NAVIGATION



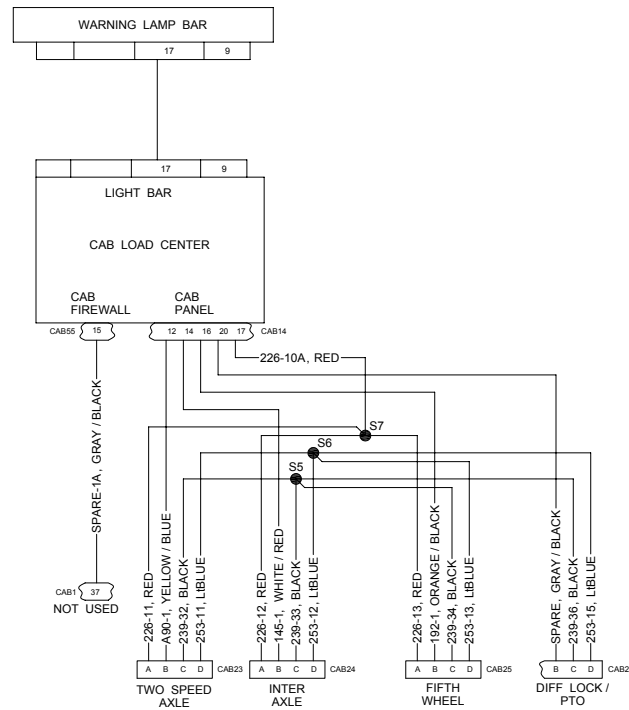




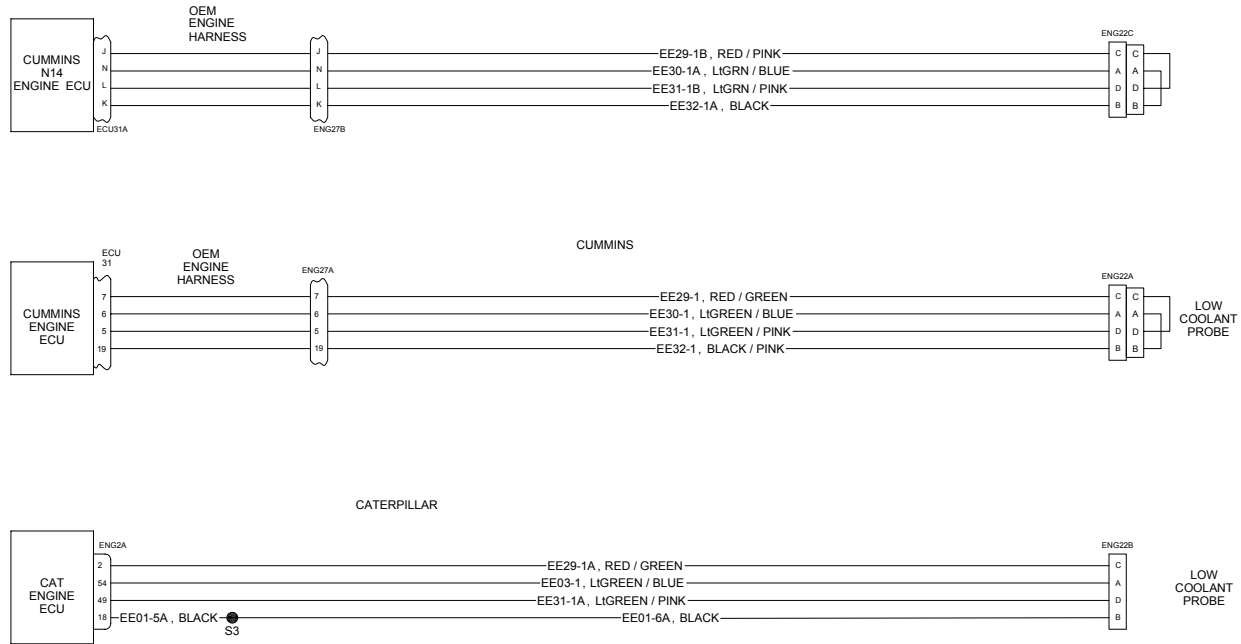
CAB CIGAR LIGHTER / POWER CONNECTION



SPARE SWITCHES

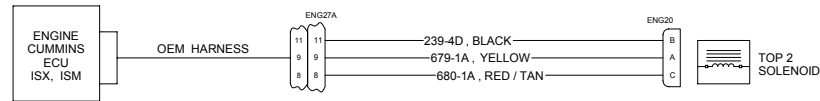
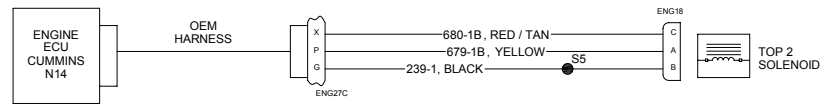


TWO SPEED AXLE / INTER AXLE /
FIFTH WHEEL / DIFF LOCK / PTO

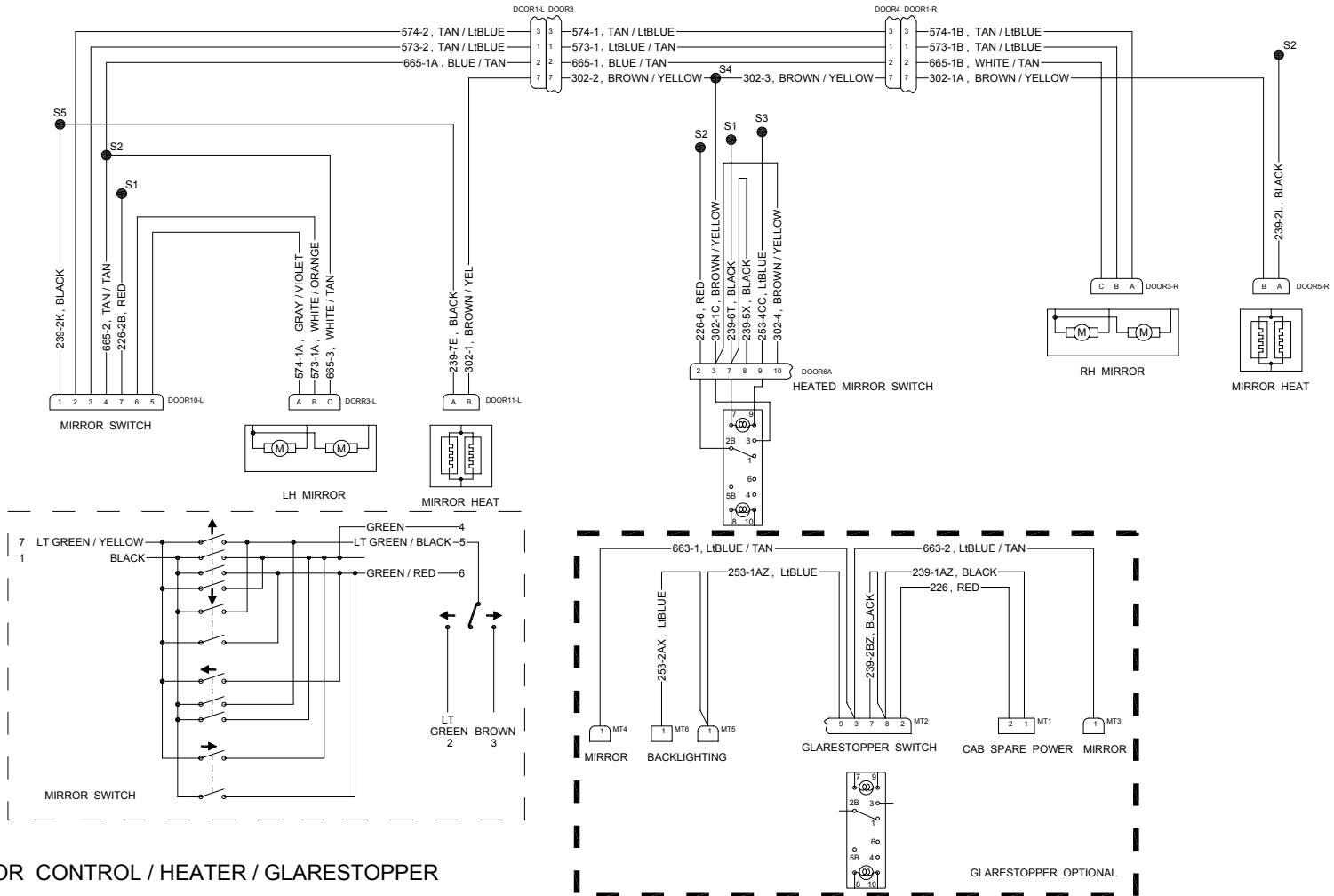


NOTE: SEE BILL OF MATERIAL OR ECAT SYSTEM FOR SPECIFIC ENGINE SCHEMATIC DRAWING NUMBER

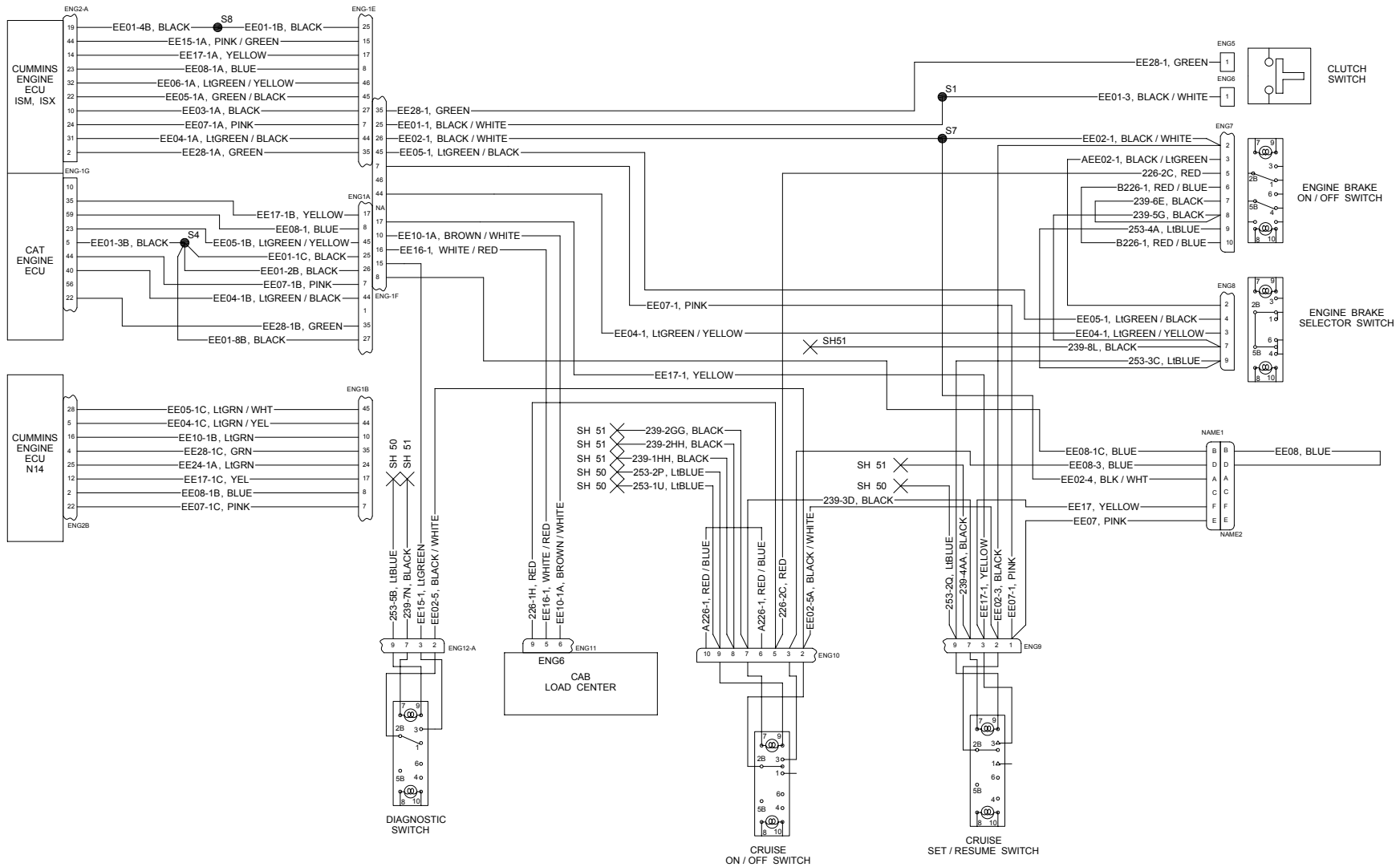
LOW COOLANT



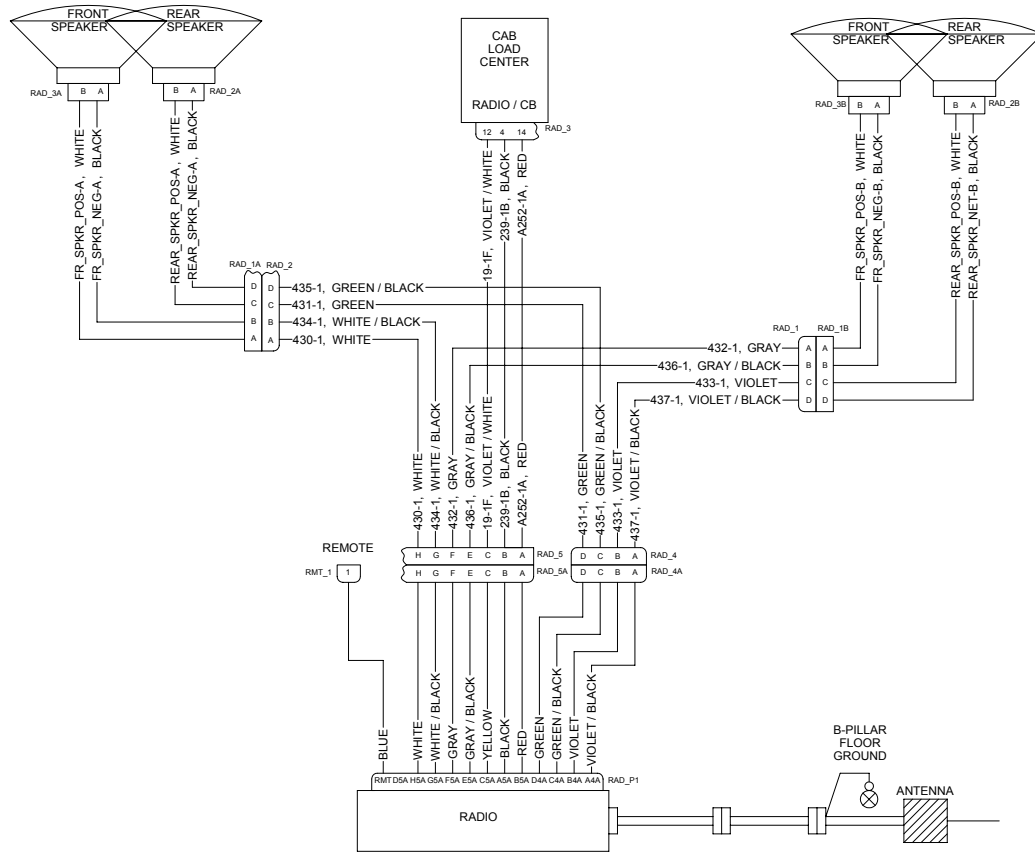
EATON TOP 2 TRANSMISSION



A DIVISION OF PACCAR

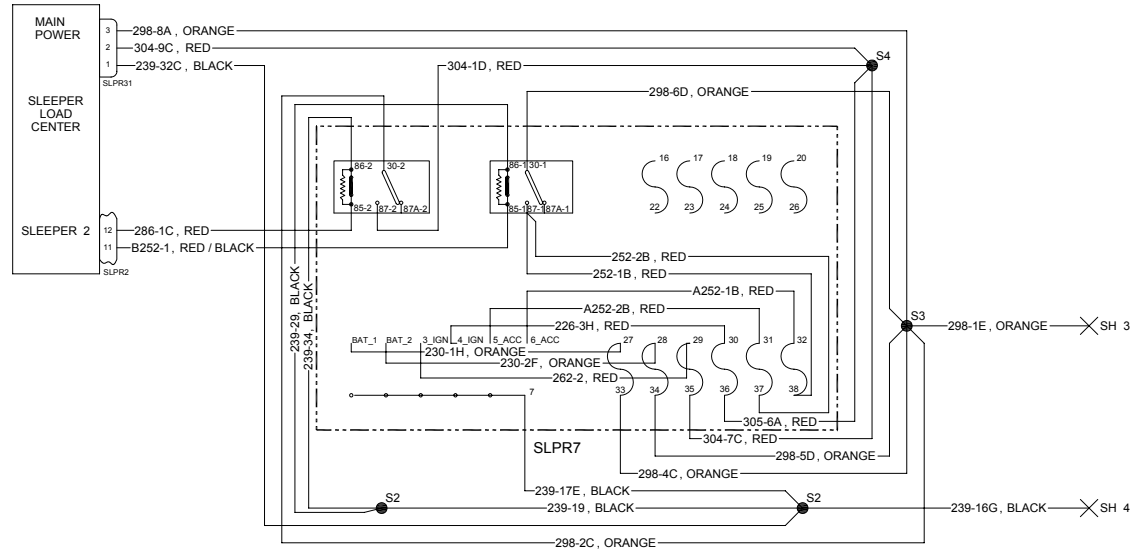


NOTE: SEE BILL OF MATERIAL OR ECAT SYSTEM FOR SPECIFIC ENGINE SCHEMATIC DRAWING NUMBER
ENGINE BRAKE / CRUISE CONTROL / DIAGNOSTIC



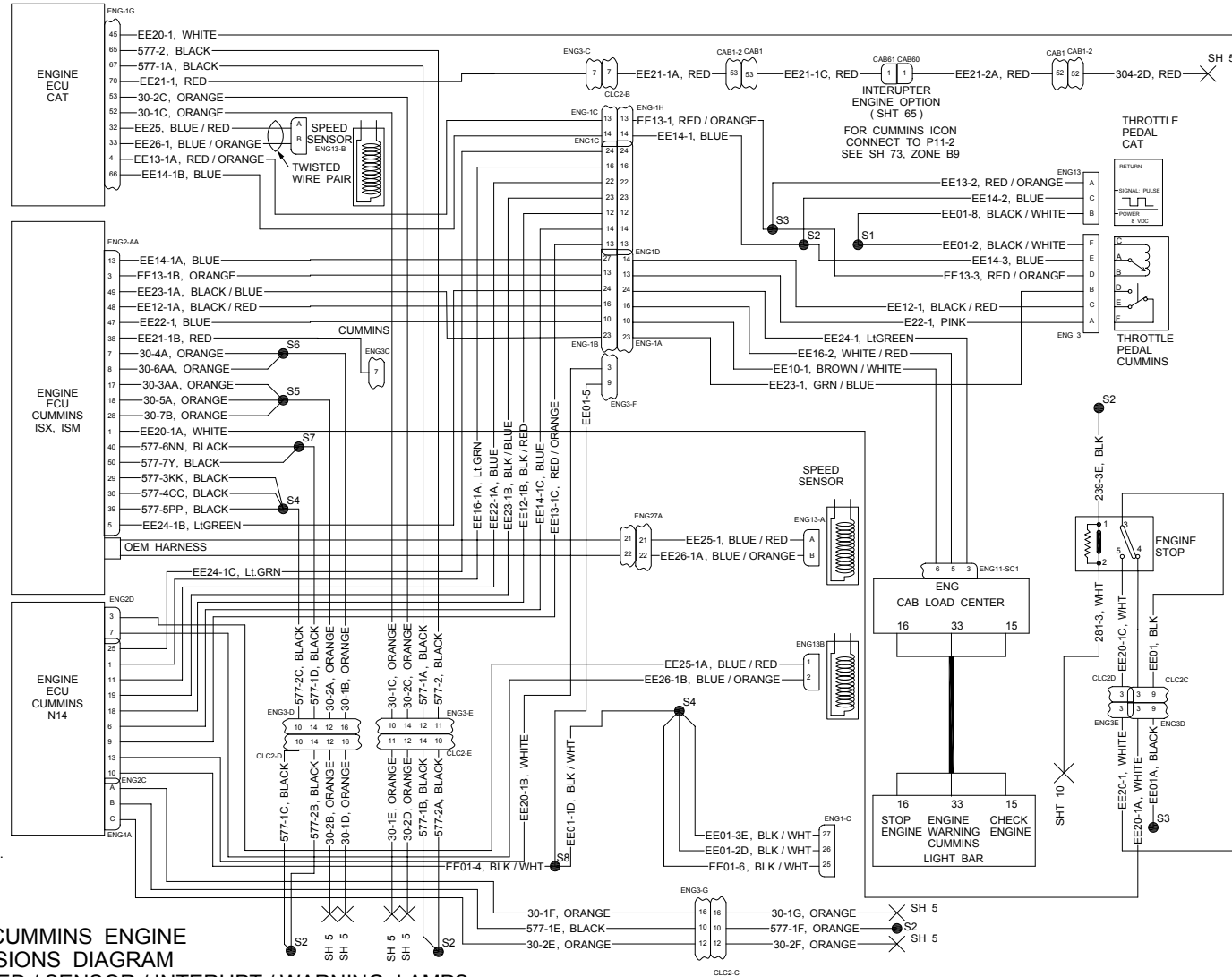
RADIO





SPARE POWER SYSTEM EXPANSION SLEEPER

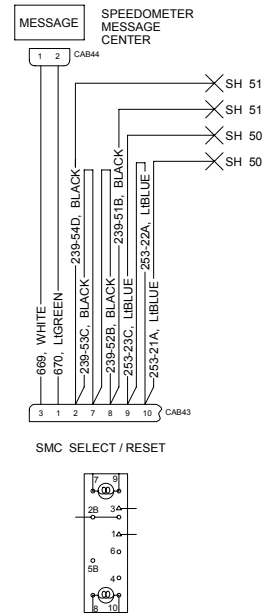
NOTE: SEE BILL OF MATERIAL OR ECAT SYSTEM FOR SPECIFIC ENGINE SCHEMATIC DRAWING NUMBER



NOTES:
 FOR 2002 EMISSIONS ENGINES, SEE APPROPRIATE ENGINE SYSTEM DIAGRAMS.

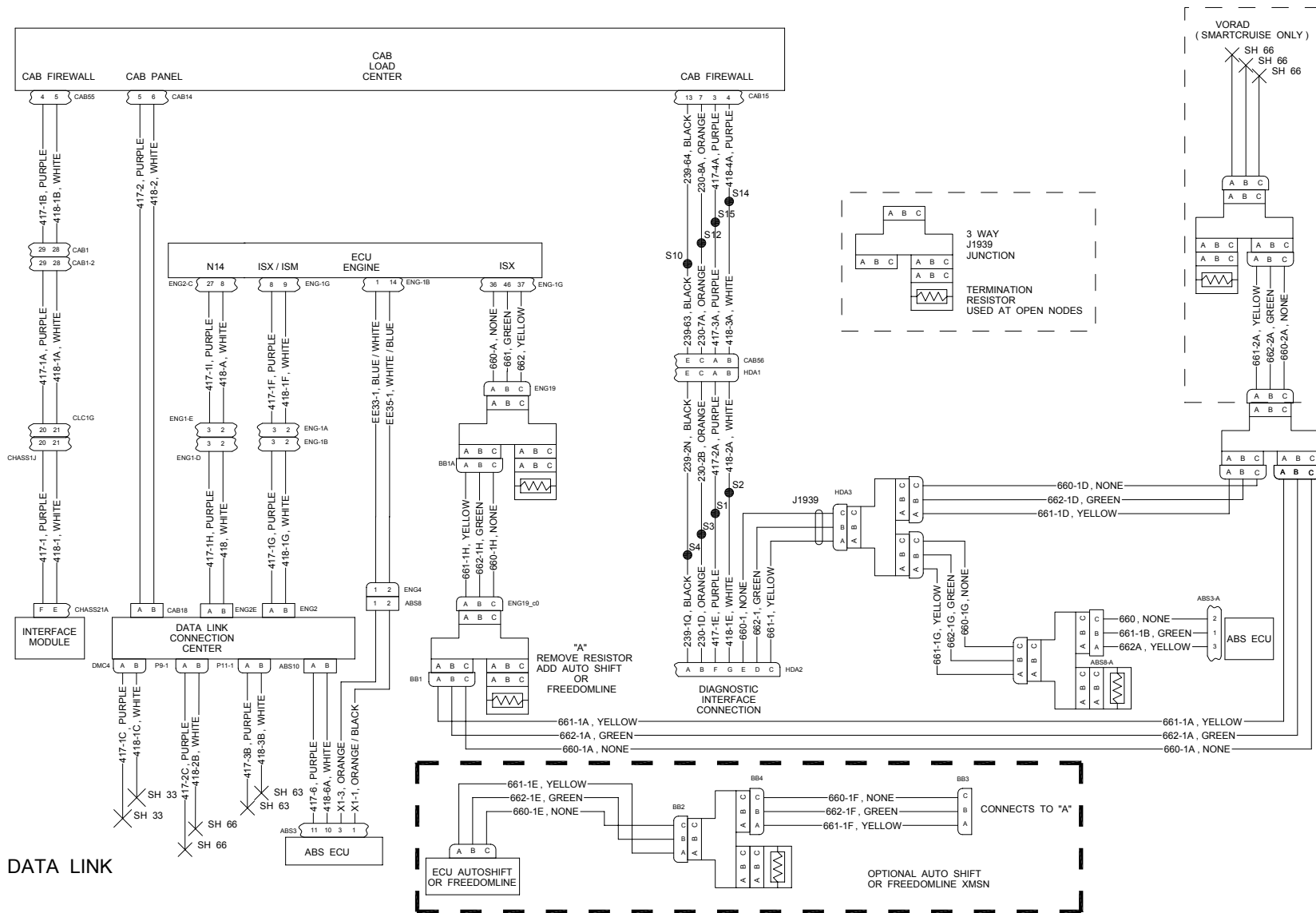
CATERPILLAR CUMMINS ENGINE
 PRE-2002 EMISSIONS DIAGRAM
 ECU / TPS / SPEED / SENSOR / INTERRUPT / WARNING LAMPS

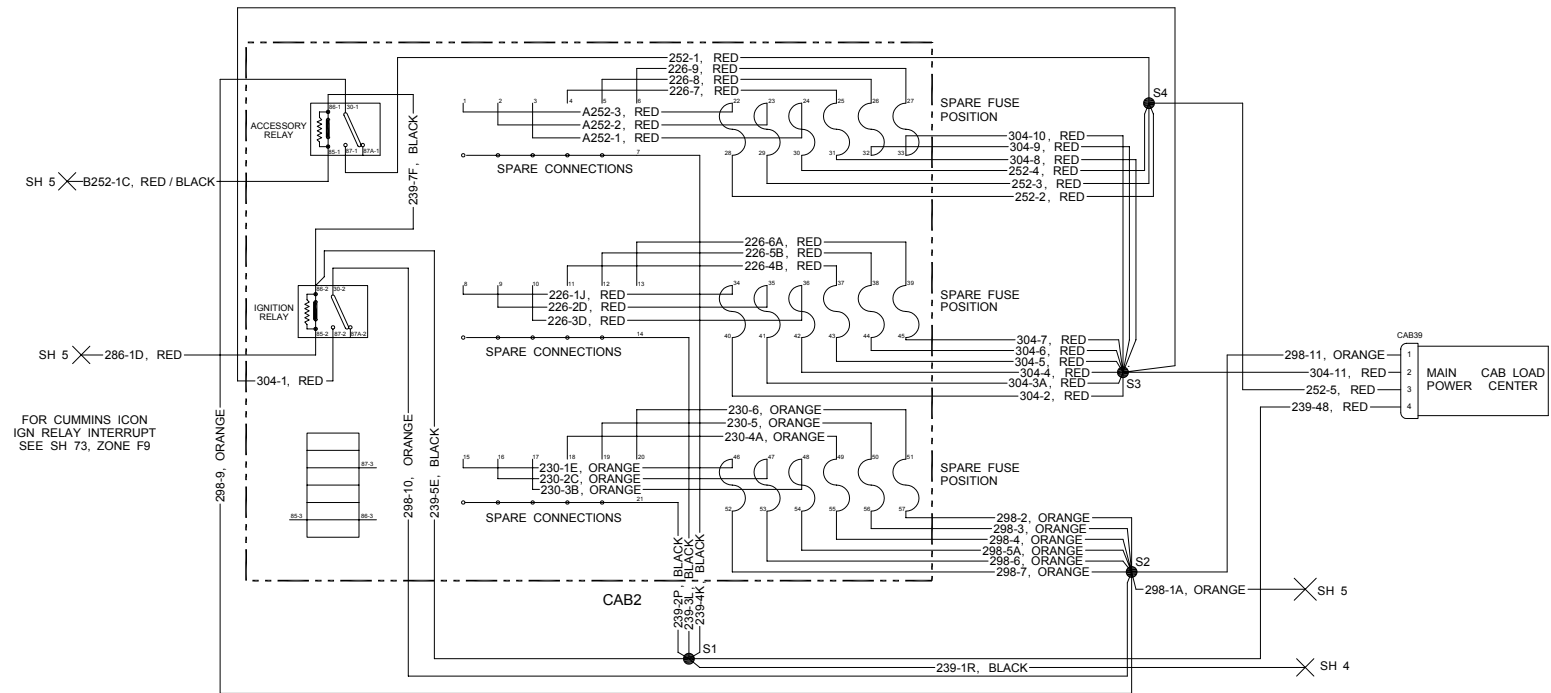




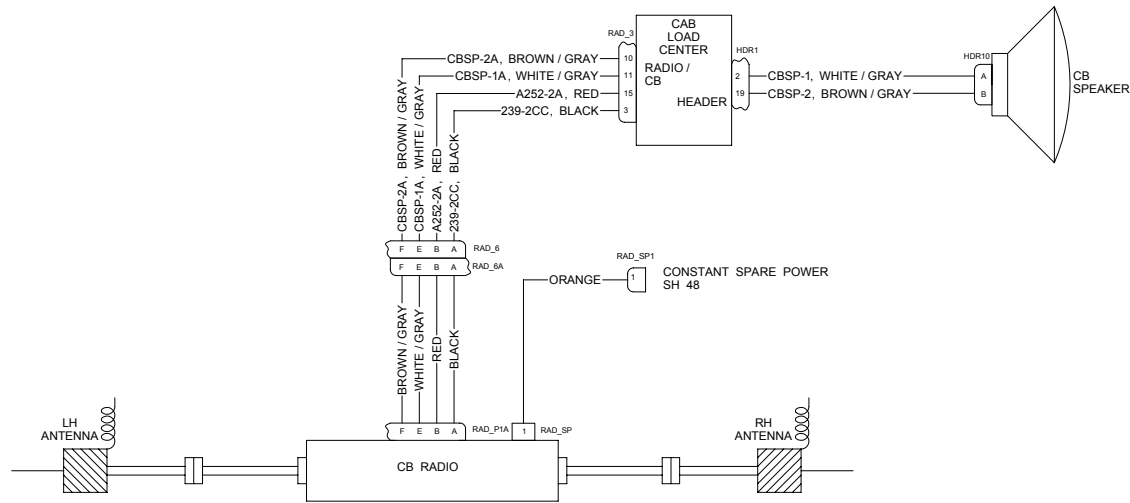
SPEEDO MESSAGE CENTER (SMC)

NOTE: SEE BILL OF MATERIAL OR ECAT SYSTEM FOR SPECIFIC ENGINE SCHEMATIC DRAWING NUMBER

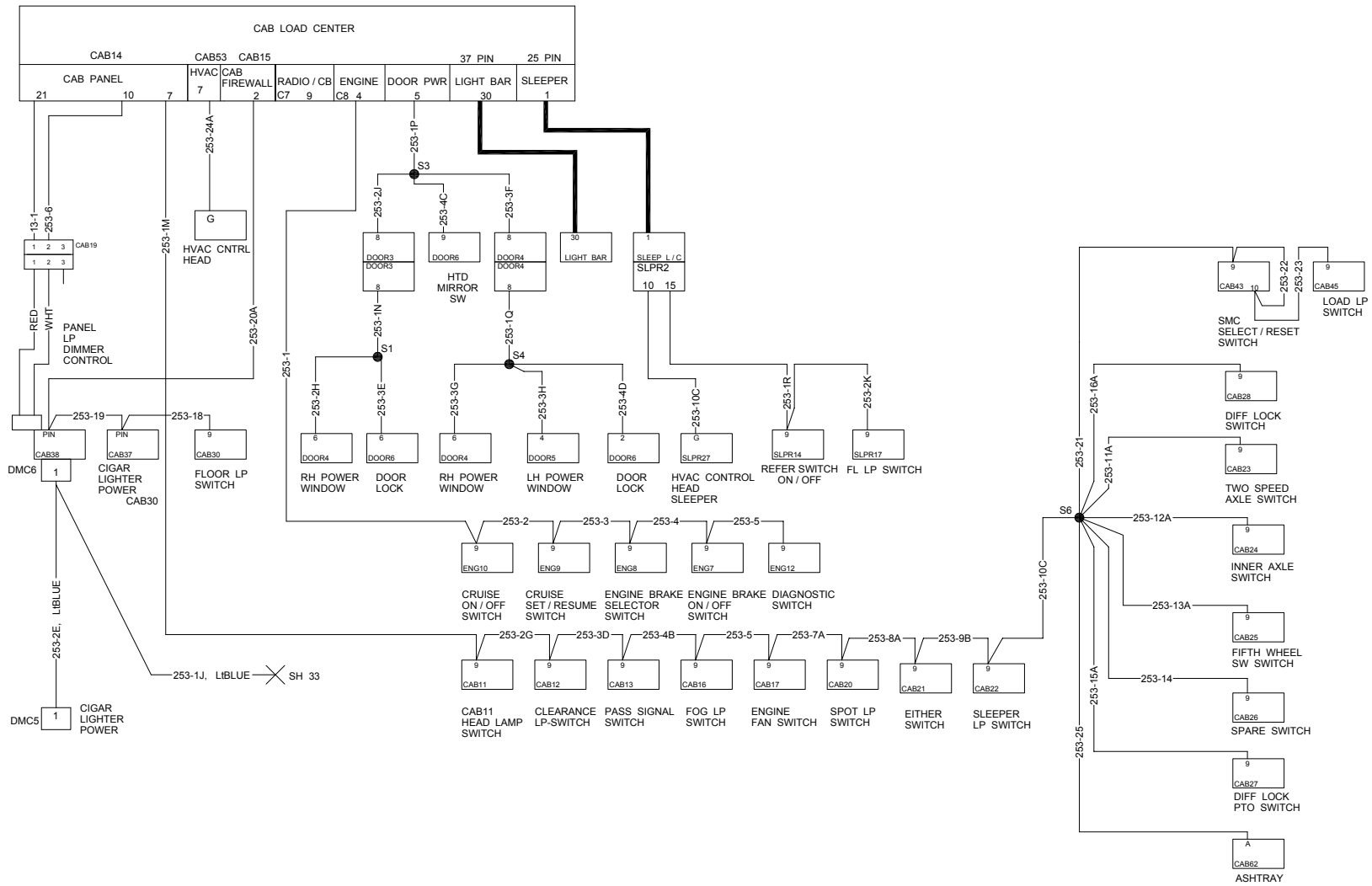




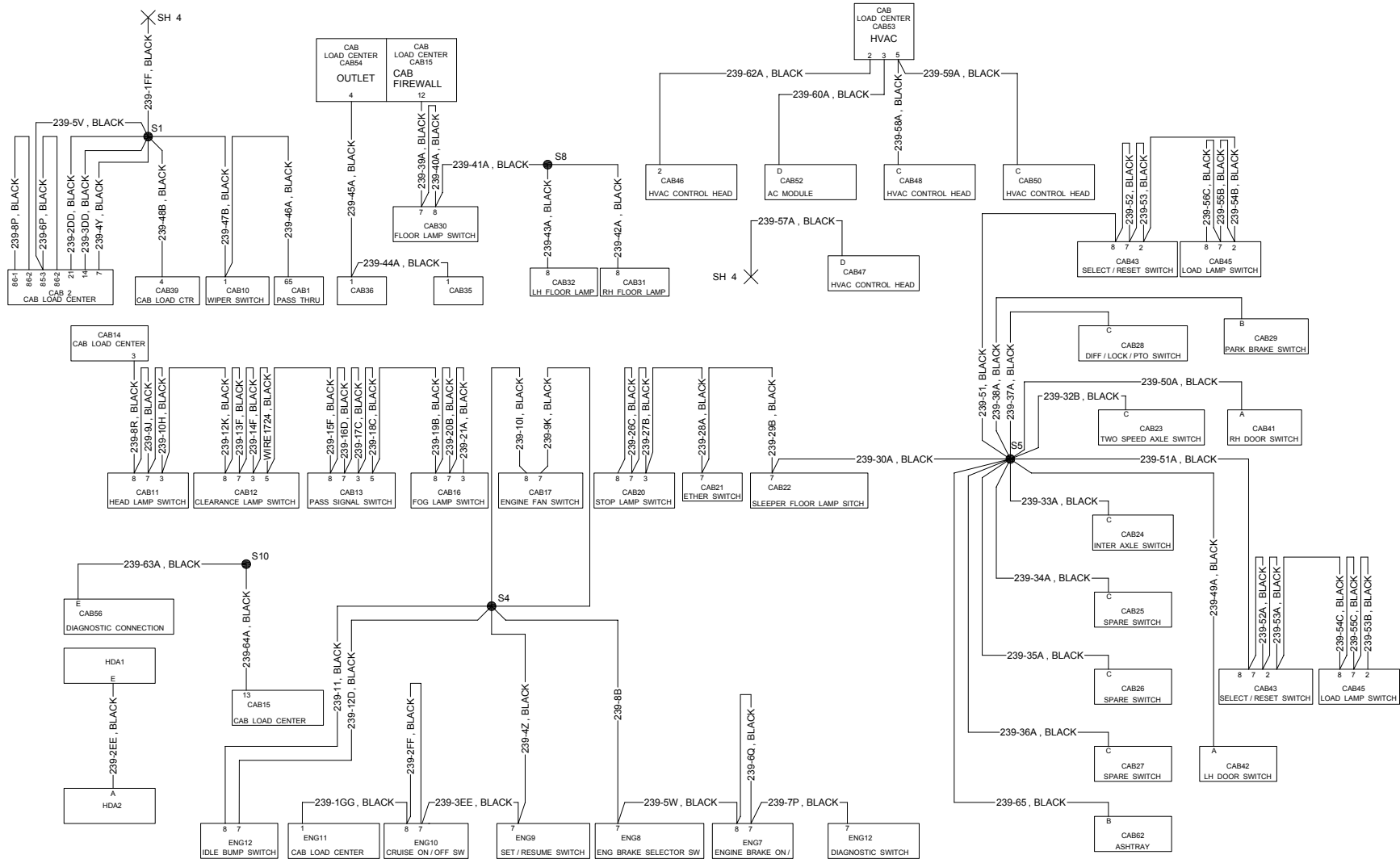
CAB SPARE POWER SYSTEM EXPANSION



CB RADIO

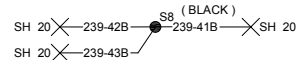
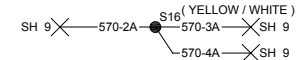
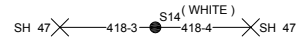
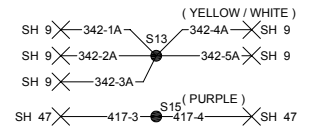
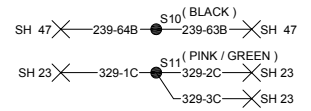
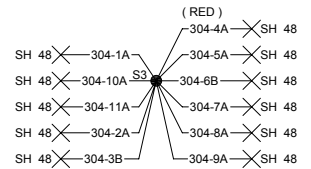
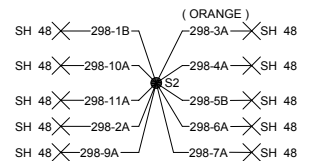
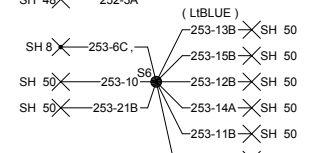
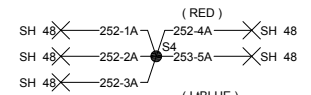
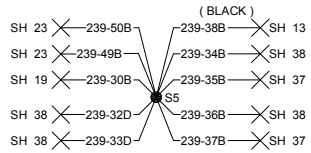
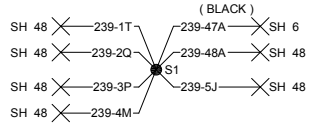
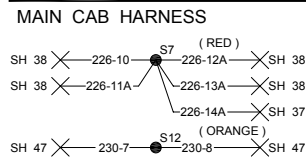
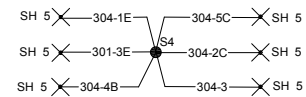
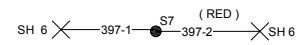
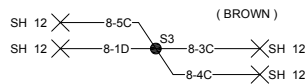
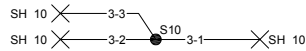
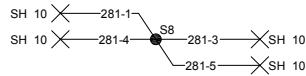
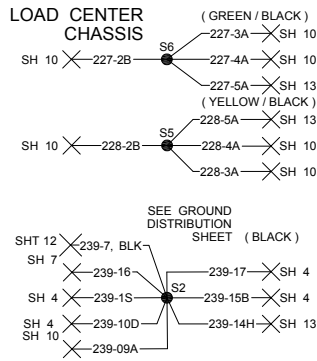


BACK LIGHTING +12 VOLTS

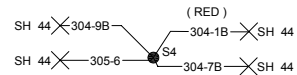
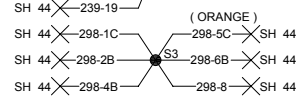
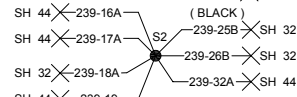
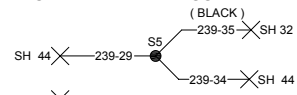


NEGATIVE SWITCH LINKS

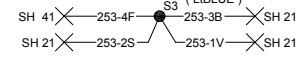
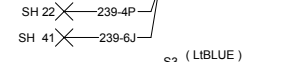
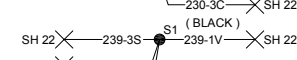
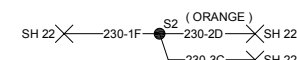
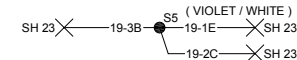




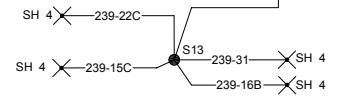
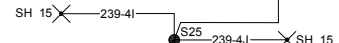
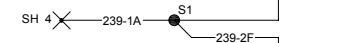
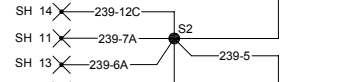
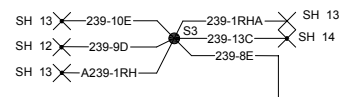
SLEEPER HARNESS



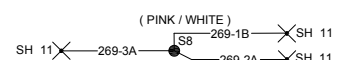
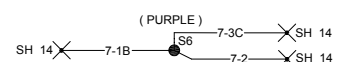
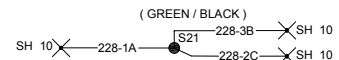
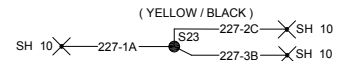
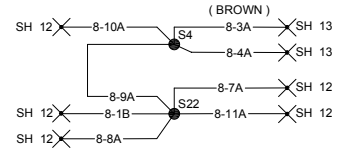
DOOR CONTROL



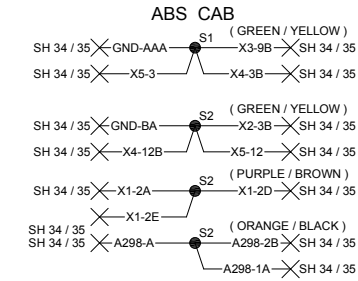
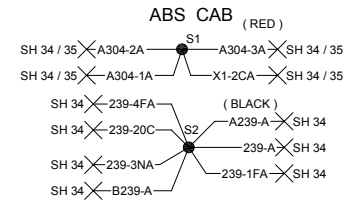
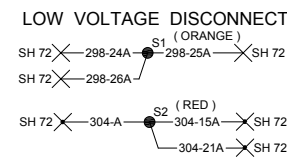
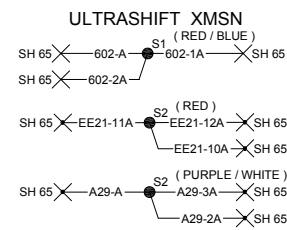
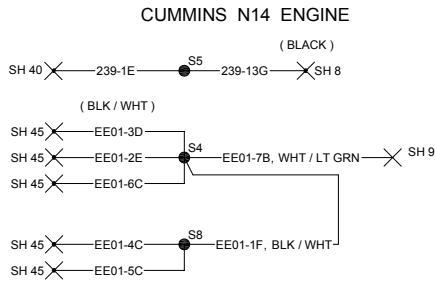
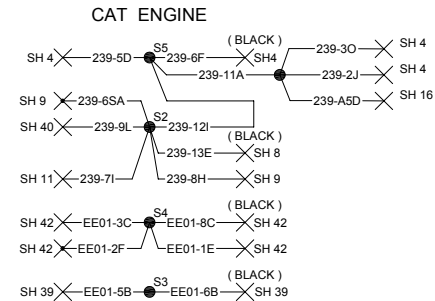
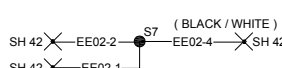
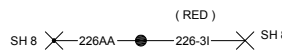
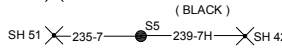
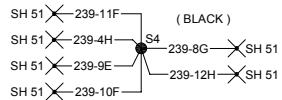
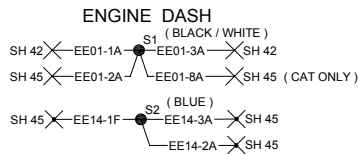
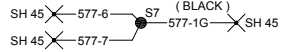
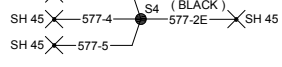
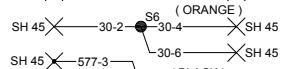
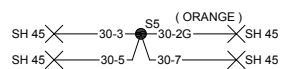
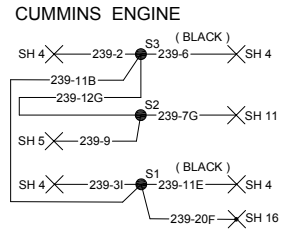
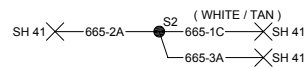
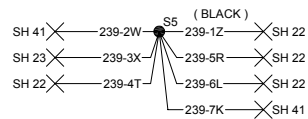
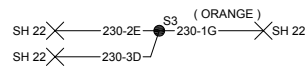
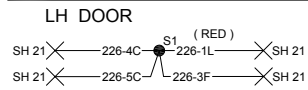
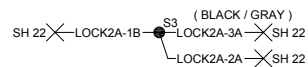
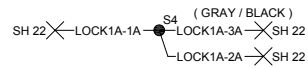
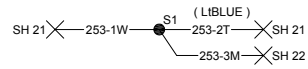
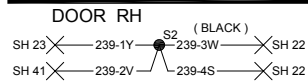
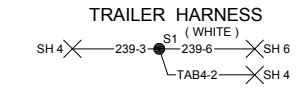
CHASSIS HARNESS



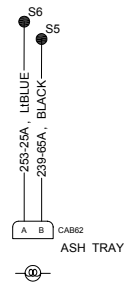
CHASSIS



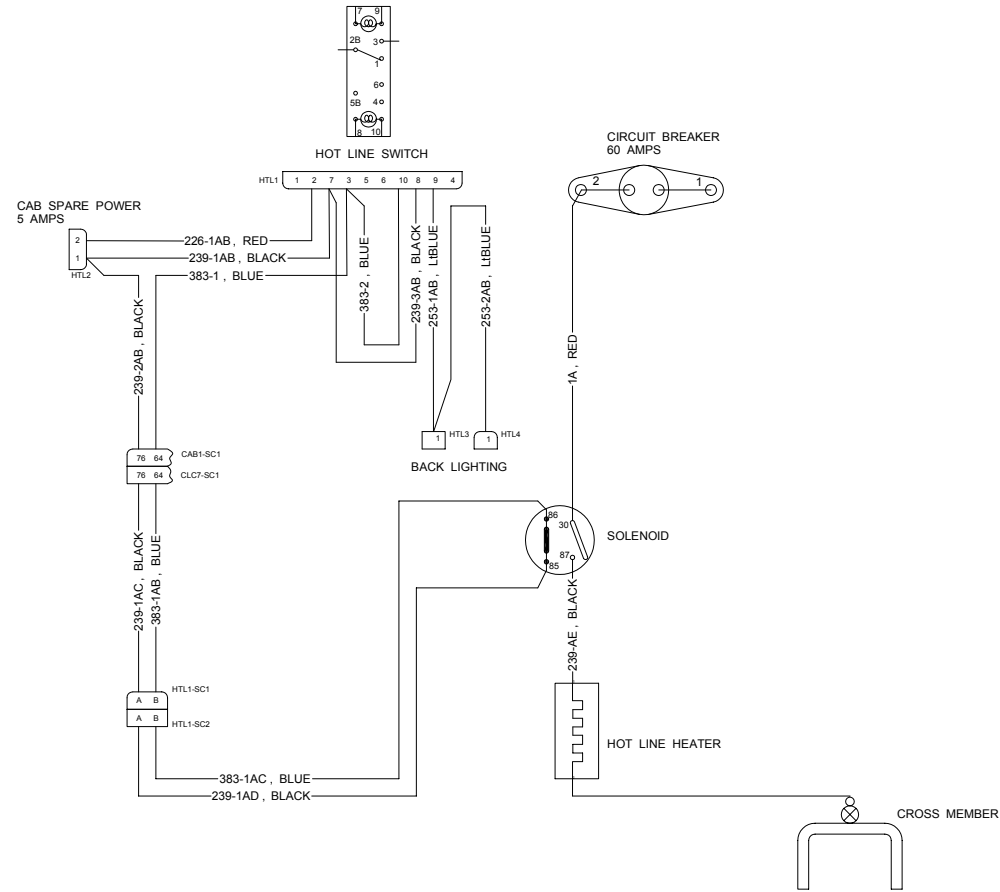
SPLICE LOCATION DISTRIBUTION



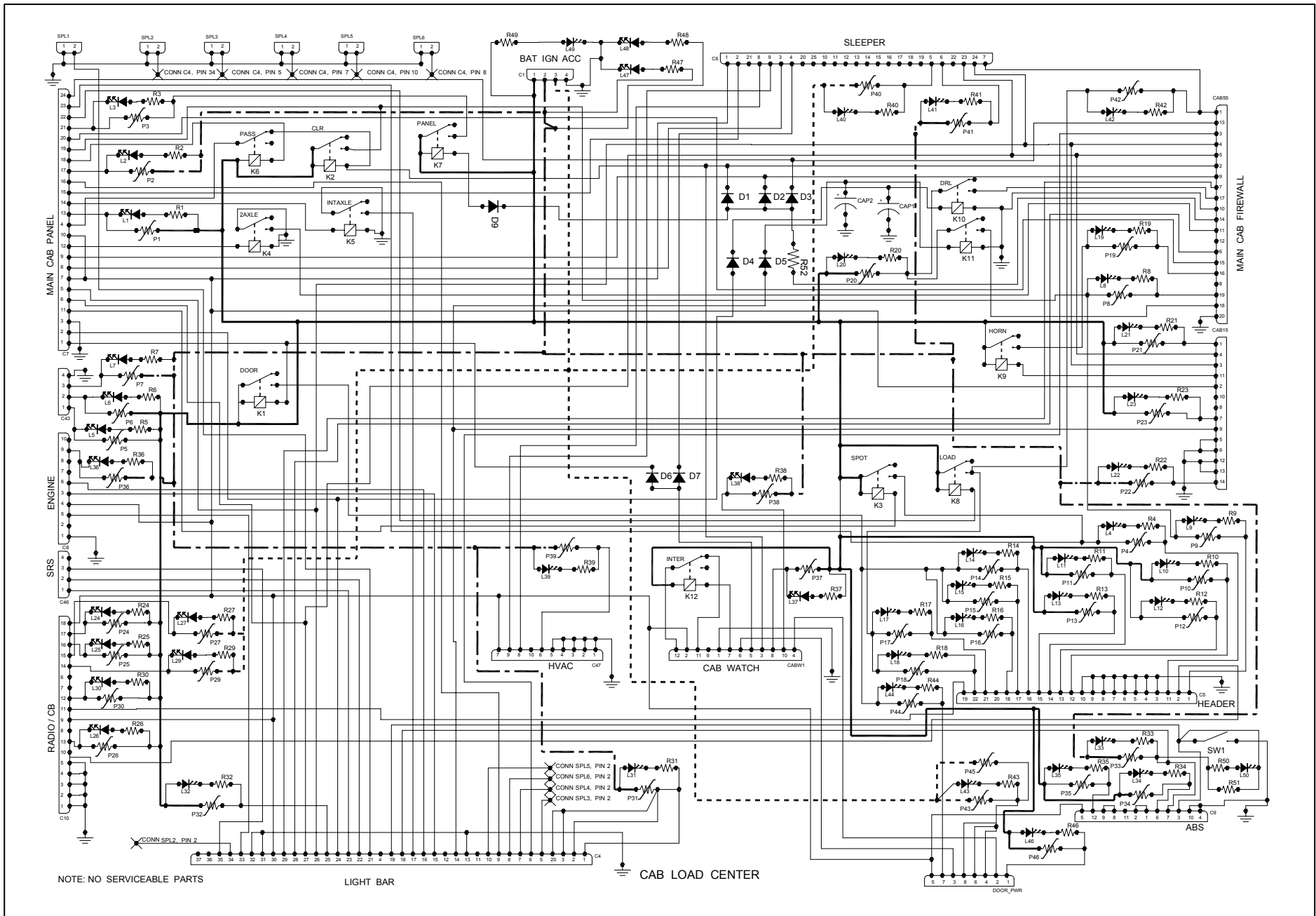
SPLICE LOCATION DISTRIBUTION

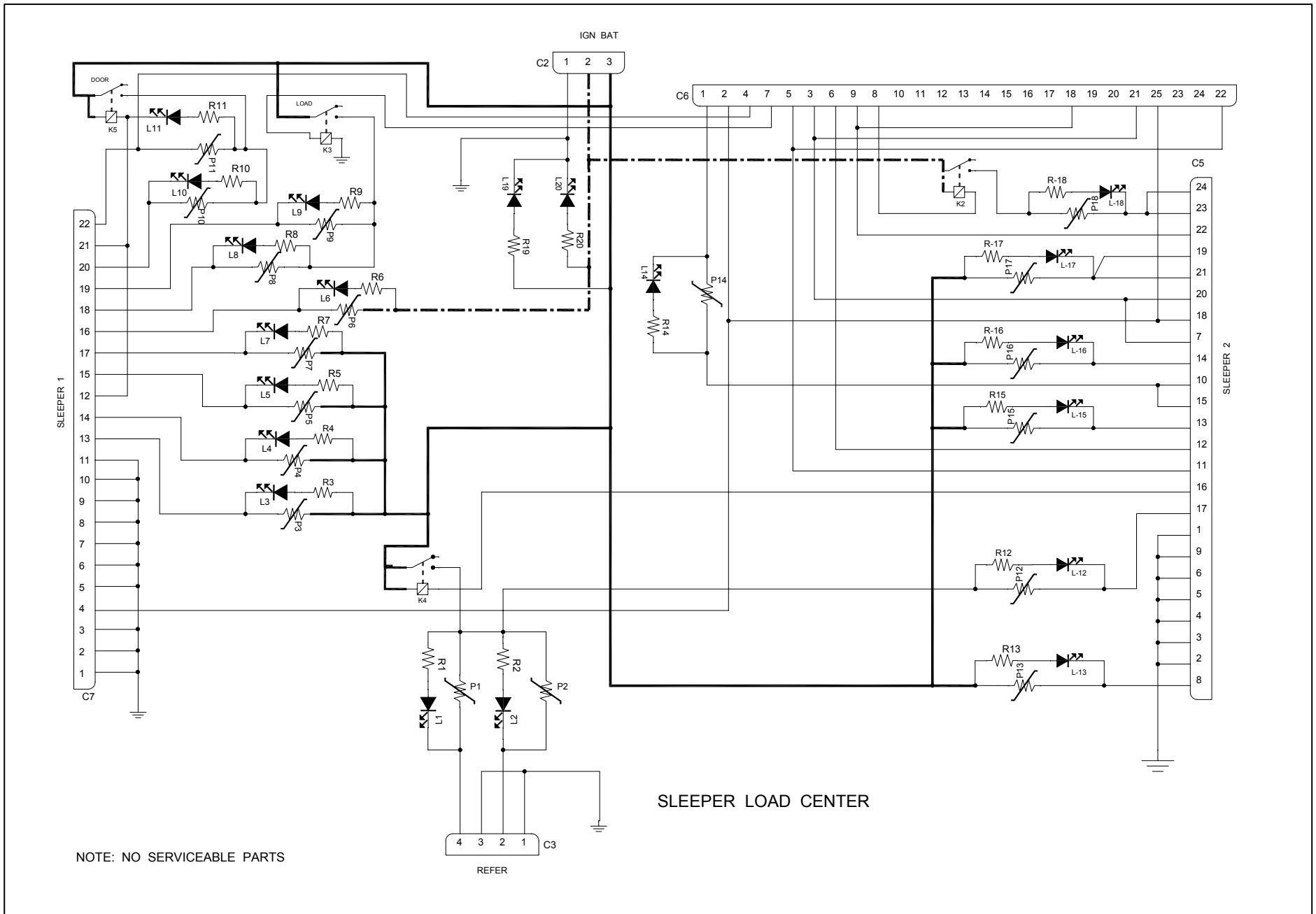


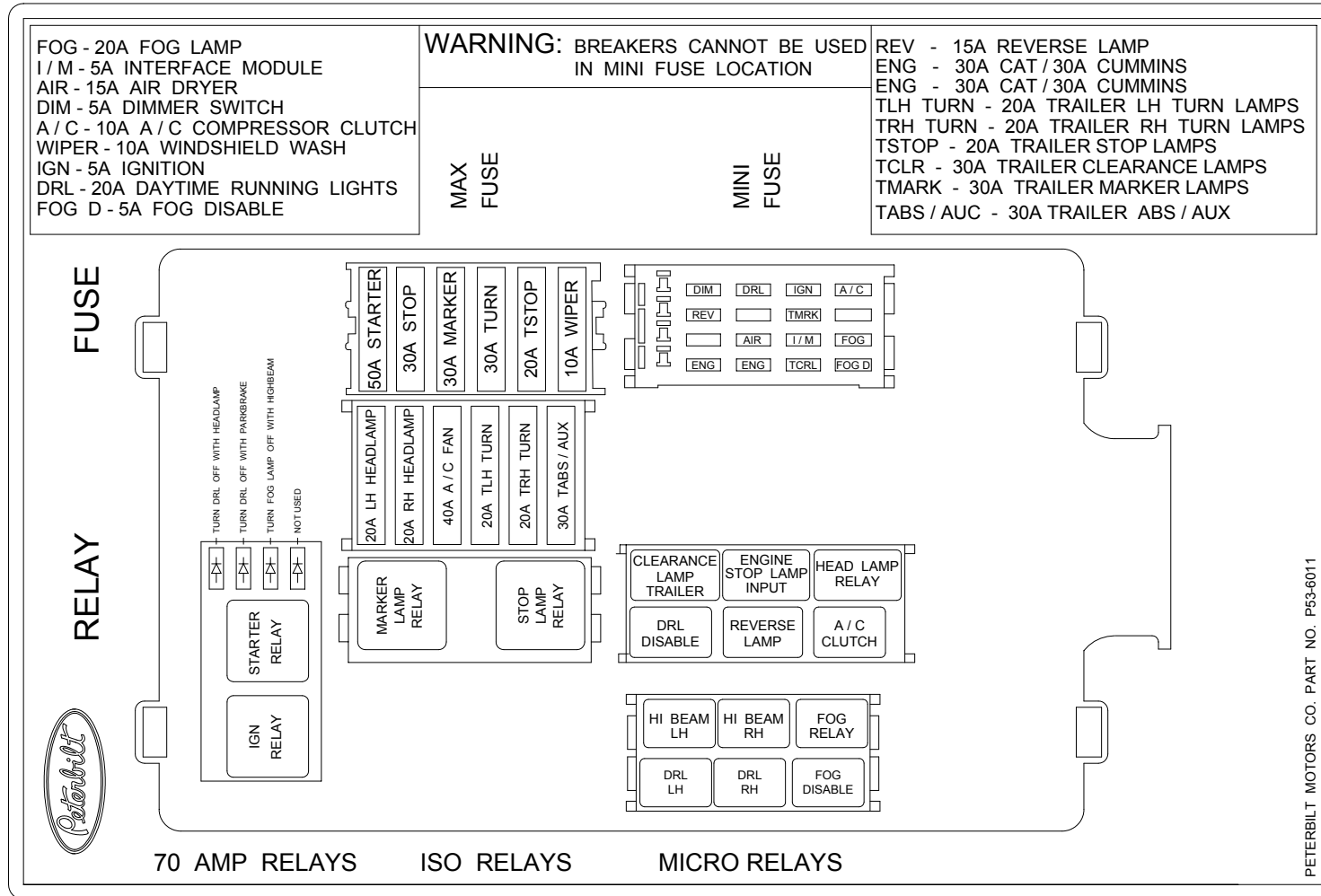
ASHTRAY



FUEL HOT LINE

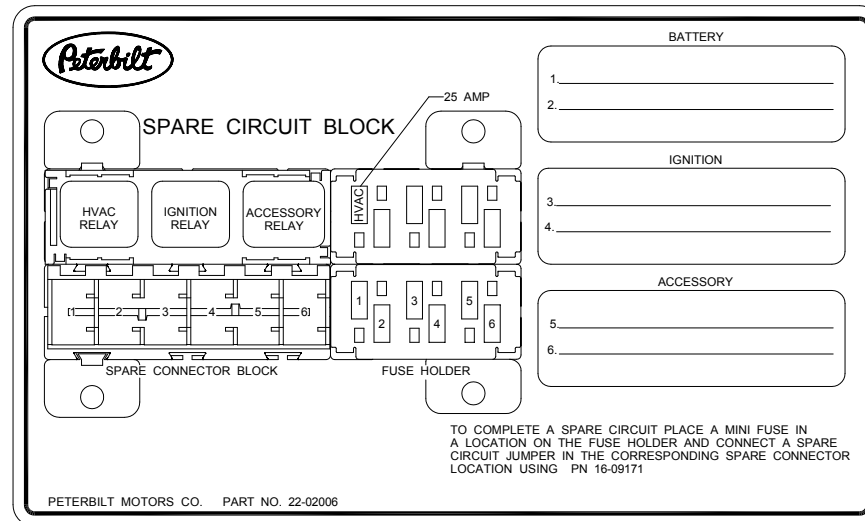




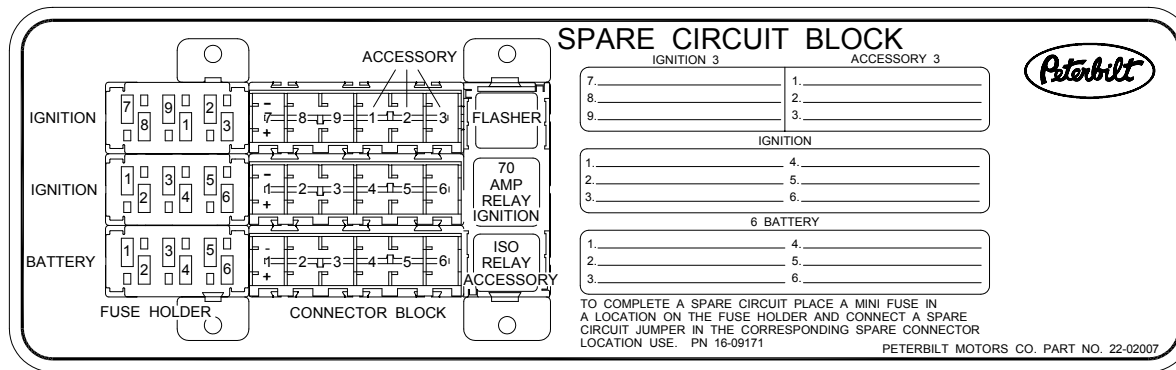


CHASSIS LOAD CENTER DECAL

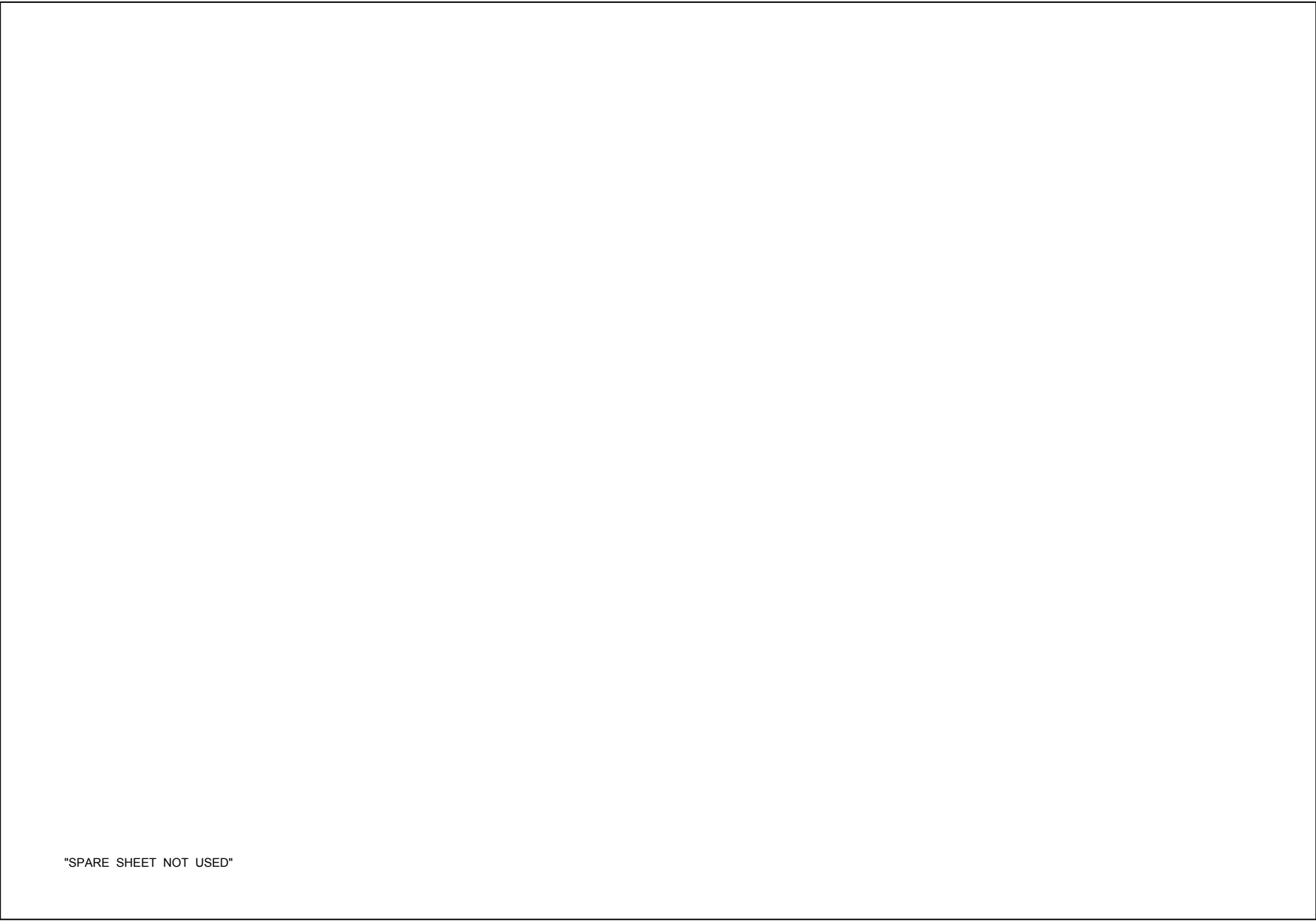
"SPARE SHEET NOT USED"



SLEEPER SPARES LOAD CENTER DECAL

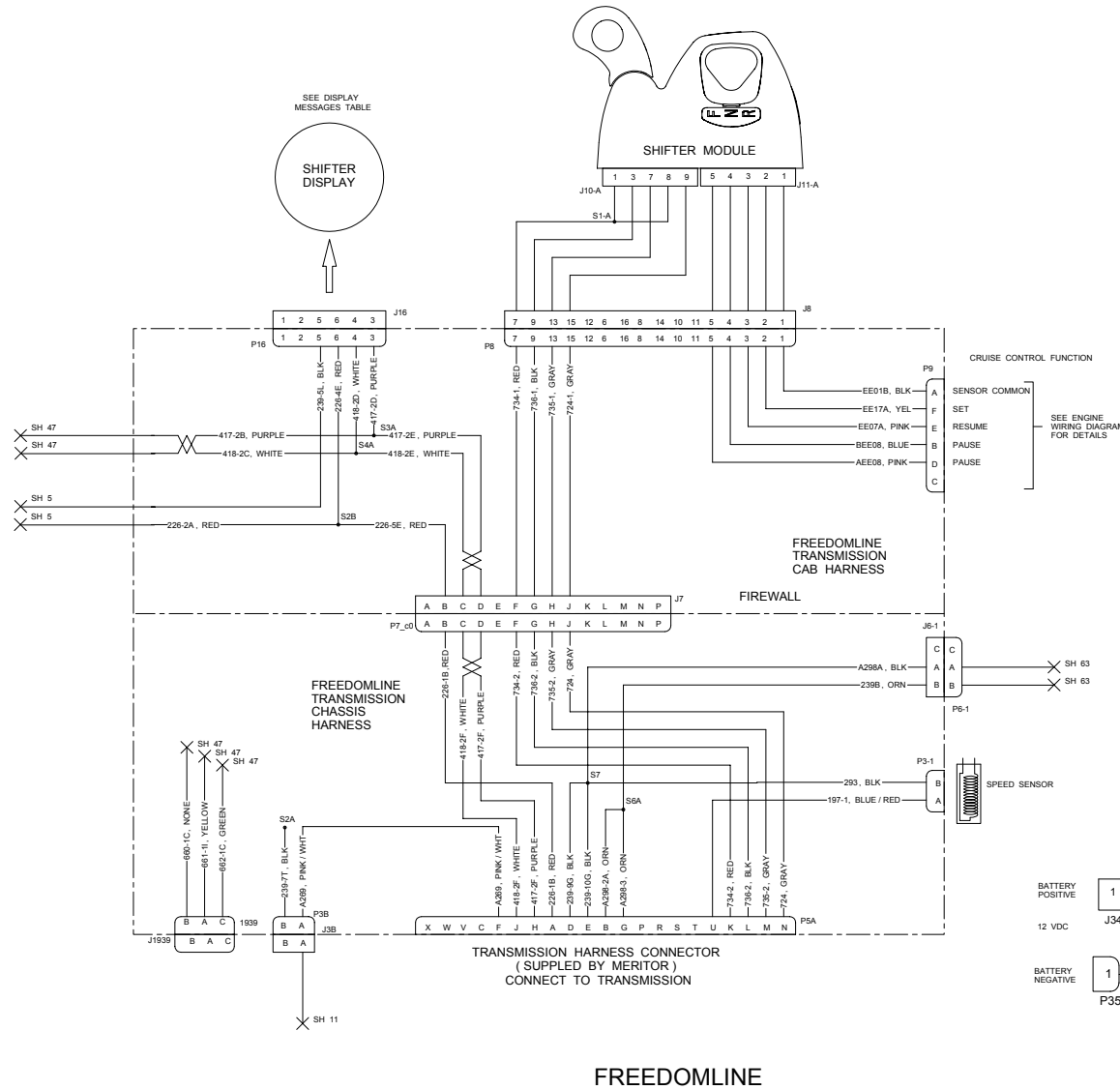


CAB SPARES LOAD CENTER DECAL



"SPARE SHEET NOT USED"

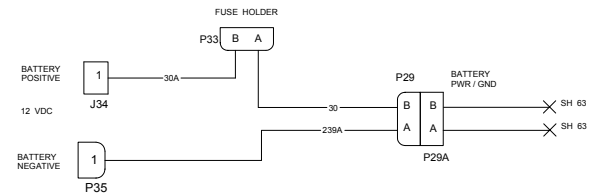


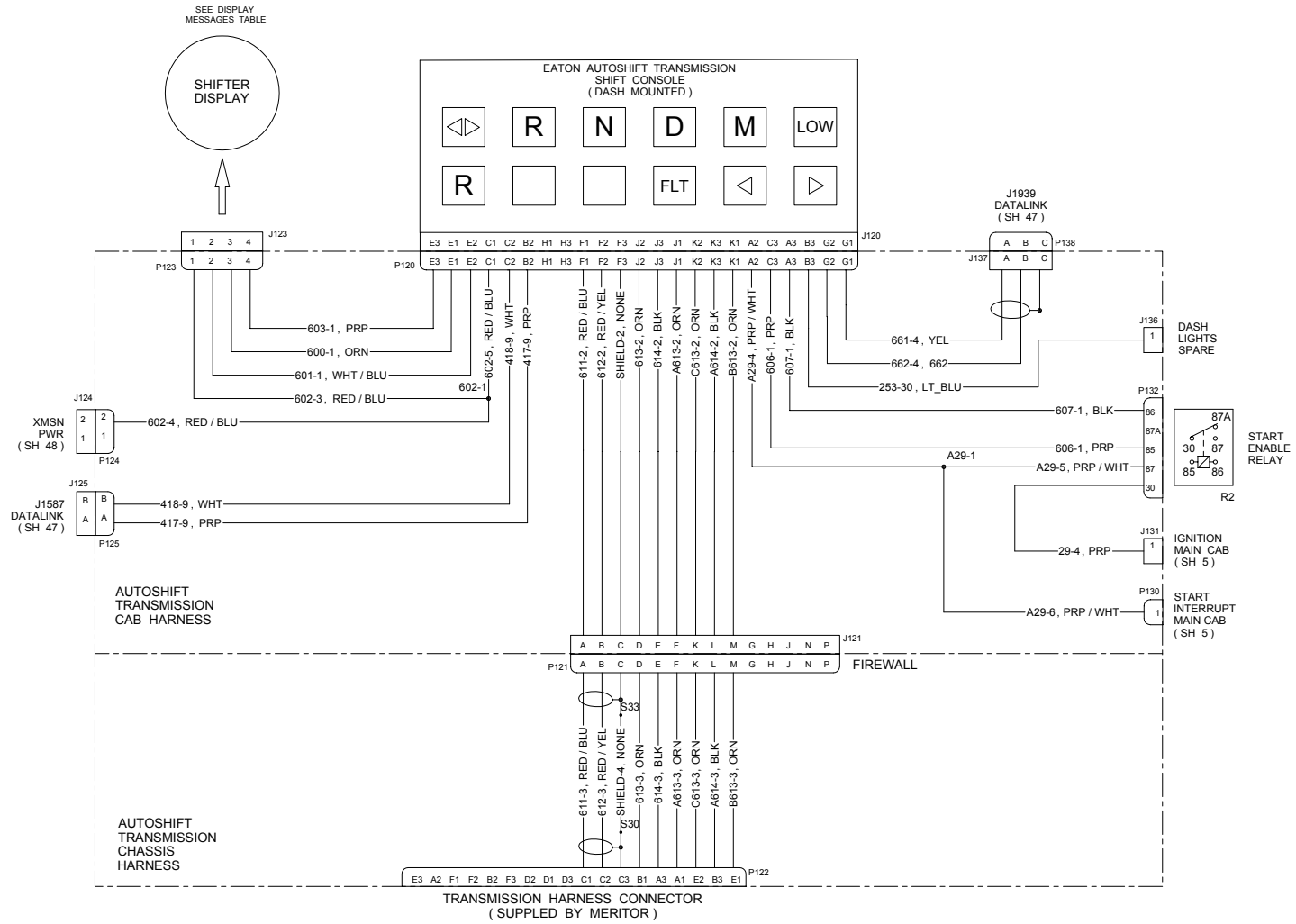


DISPLAY MESSAGES					
FUNCTION	ZF MERITOR DISPLAY	FUNCTION	ZF MERITOR DISPLAY	FUNCTION	ZF MERITOR DISPLAY
SYSTEM SELF CHECK	CH	PTO 1 AND 2 ARE ACTIVATED, STARTING OFF GEAR 3 IS ENGAGED	▲ P3 ▼	SYSTEM ERROR	SM
TRANSMISSION IN NEUTRAL	N	AIR LOW	AL		
AUTOMATIC MODE	▲ ▼	FOOT OFF PEDAL	FP		
ENGAGED STARTING GEAR	3	CLUTCH OVERLOAD	CL		
REVERSE LOW ENGAGED	RL	NO DATA TO DISPLAY	EE		
REVERSE HIGH ENGAGED	RH	COMMUNICATION ERROR TO DISPLAY	--		
PTO 1 ACTIVATED, TRANSMISSION IN NEUTRAL	▲ PN	CLUTCH WEAR INDICATOR	CW		

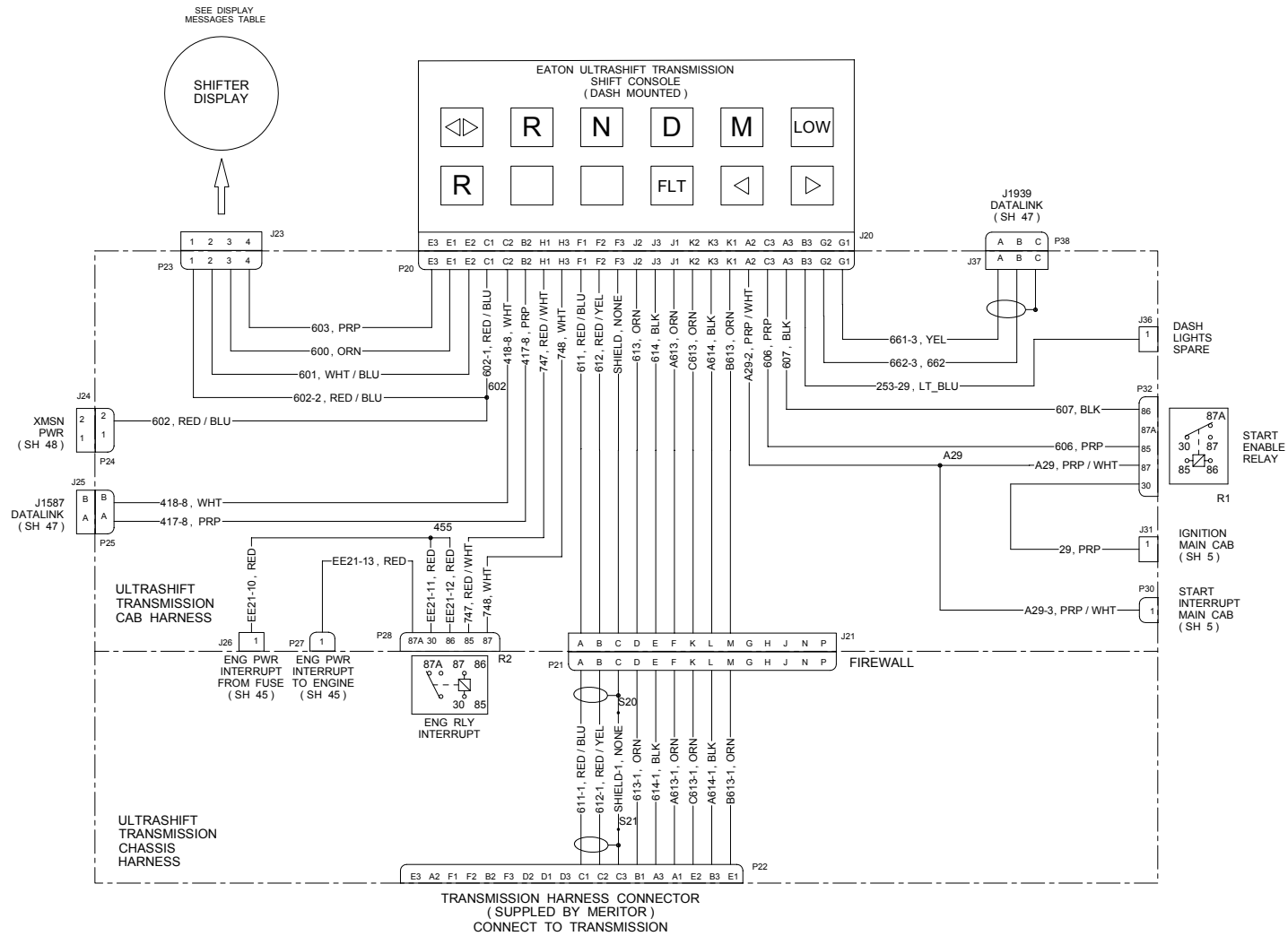
NOTES:

- 1) CIRCUIT A509 IS USED AS A STARTER NEUTRAL INTERLOCK SIGNAL. TRUCK MUST BE IN NEUTRAL TO START.
- 2) OPERATING SYSTEM VOLTAGE 9 TO 16 VOLTS. CAUTION: TRANSMISSION IS EQUIPPED WITH A DIODES CONVERTOR. SOME CIRCUITS ON TRANSMISSION WILL BE 24 VOLTS. SEE MERITOR FREEDOMLINE MANUAL.
- 3) CRUISE CONTROL SWITCH LOGIC IS THE SAME AS THE MERITOR CRUISE SWITCHES ON SHIFTER.

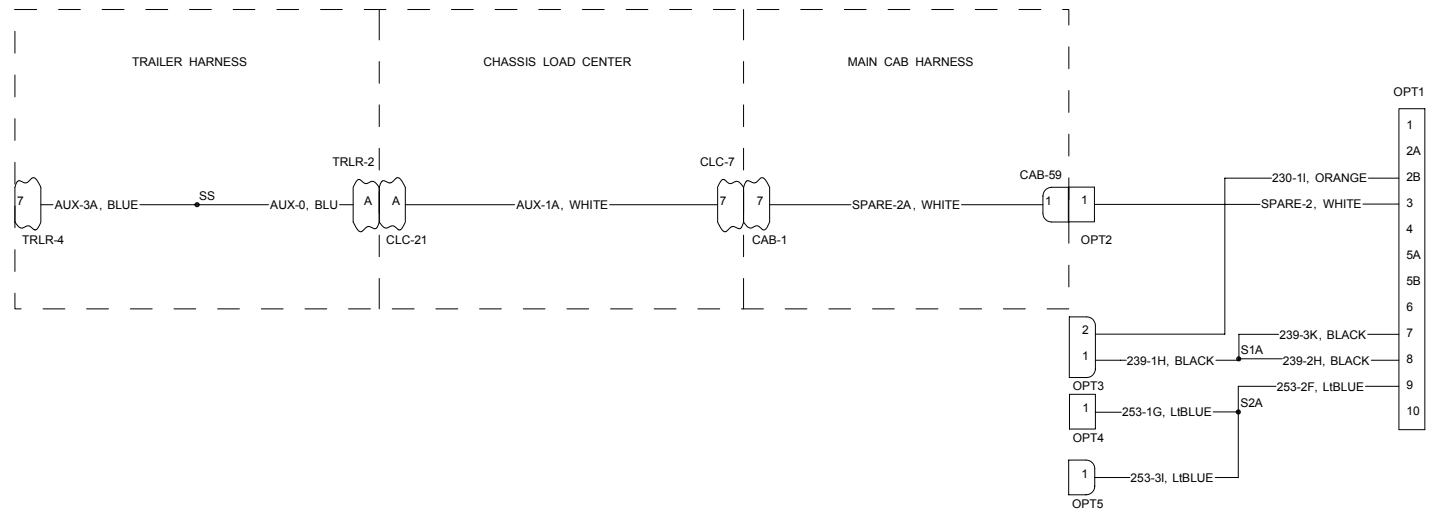




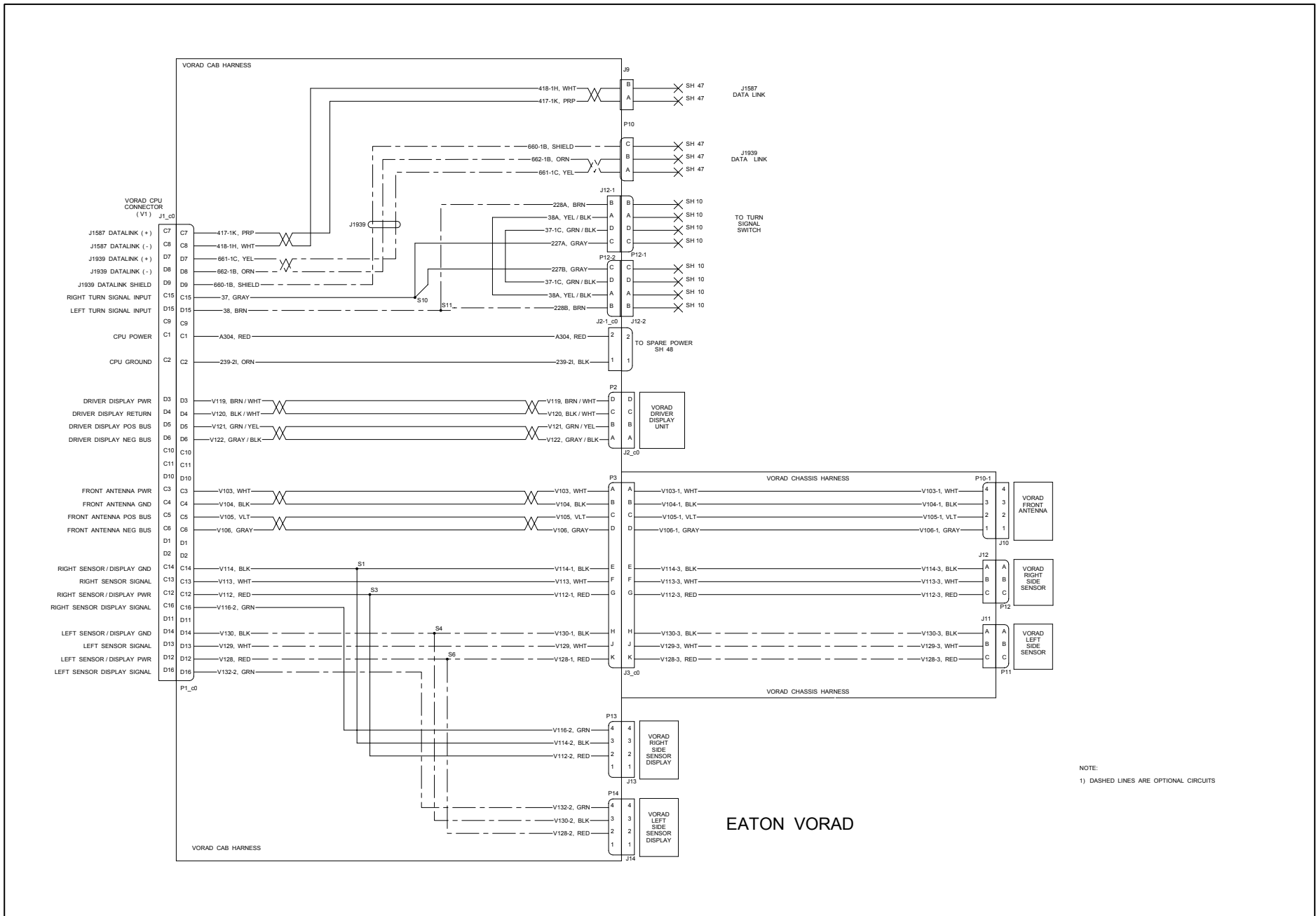
EATON AUTOSHIFT TRANSMISSION



EATON ULTRASHIFT TRANSMISSION

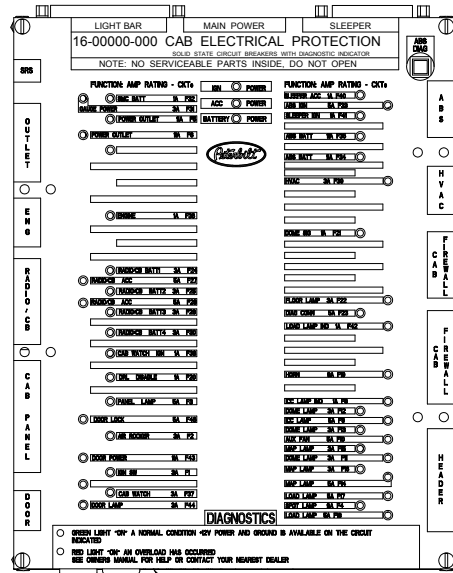


SWITCHED 7th WIRE HOT



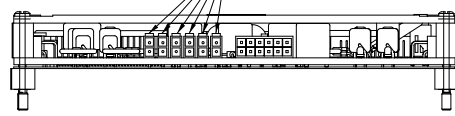
NOTE:
1) DASHED LINES ARE OPTIONAL CIRCUITS



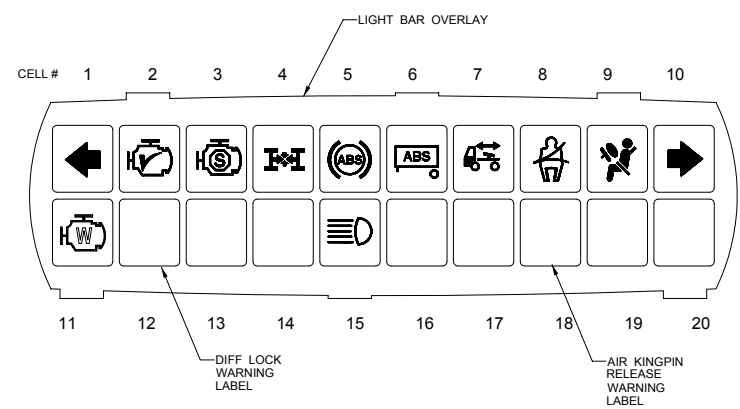


CAB LOAD CENTER

CONNECTORS FOR OPTIONAL WARNING LIGHTS IN LIGHT BAR



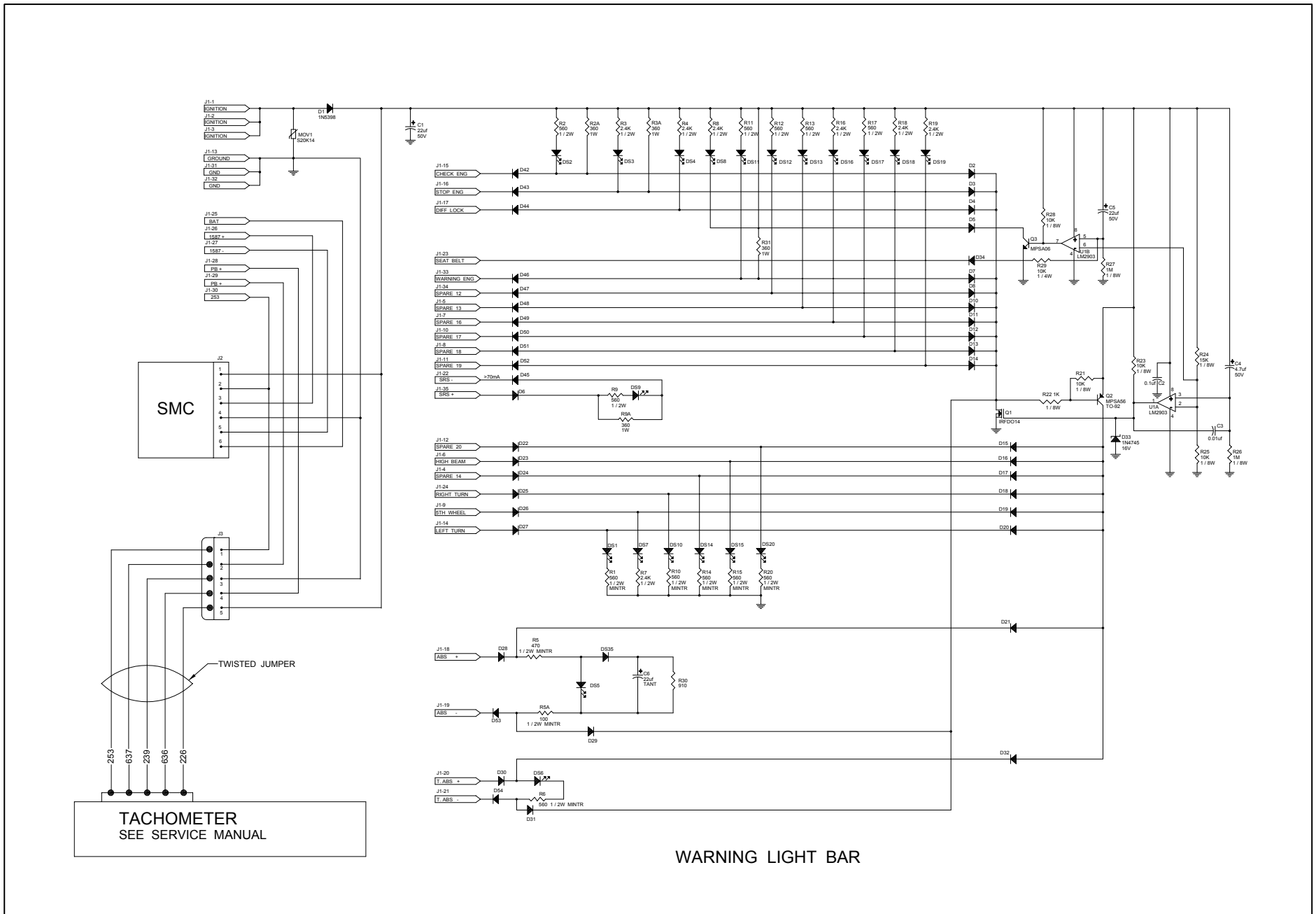
- NOTE:
- 1) SPL1 IS ALWAYS USED FOR TRAILER ABS WARNING LIGHT. (CELL 6)
 SYMBOL IS PART OF STANDARD LIGHT BAR-NO ADDED LABEL IS REQUIRED.
 - 2) NOT CONNECTED

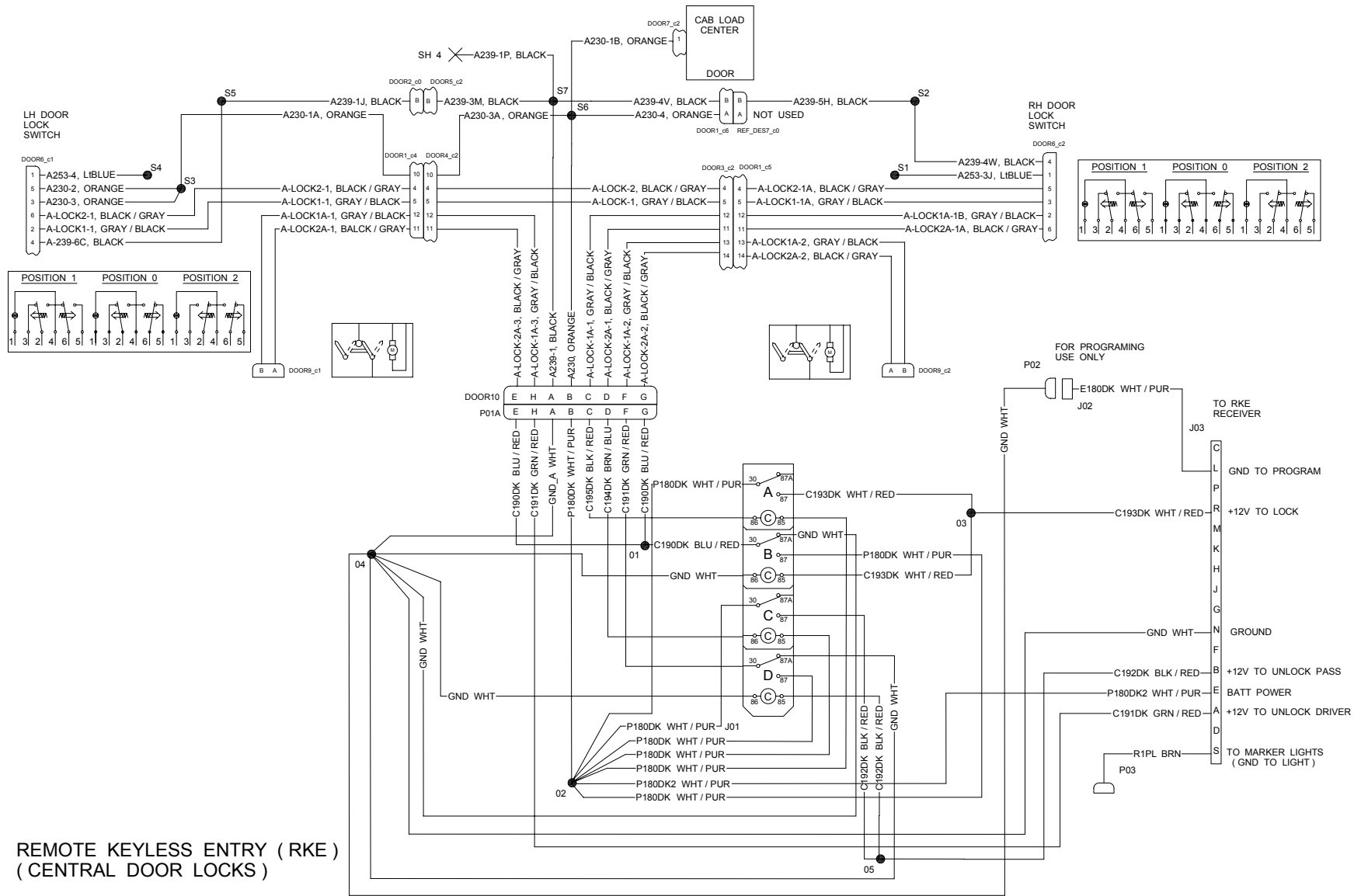


APPLY APPLICABLE WARNING LABELS TO BACK OF OVERLAY AS SHOWN

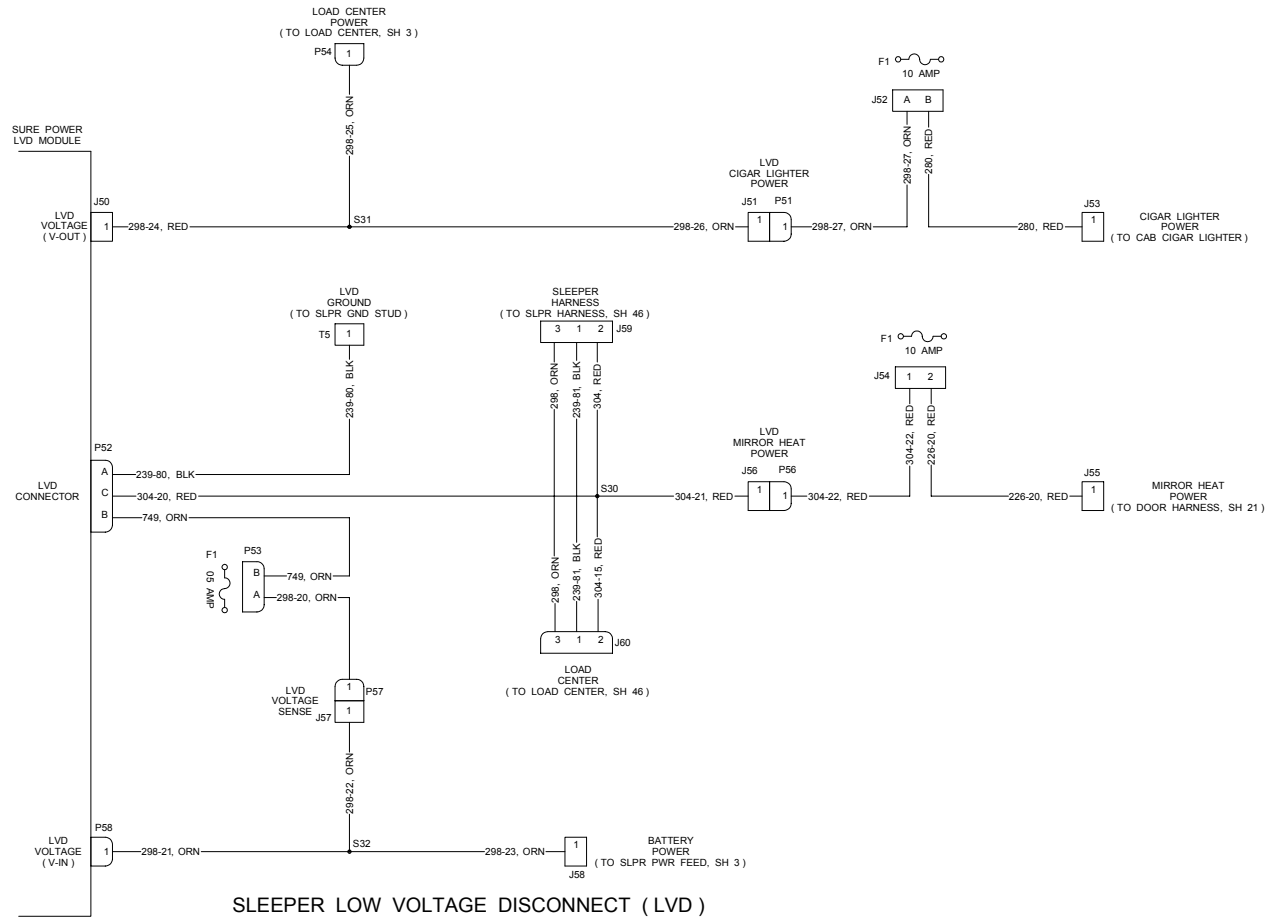
CAB LOAD CENTER CONNECTOR	LIGHT BAR CELL	WARNING LIGHT COLOR	WARNING LABEL	PWR / GND TO LIGHT
SPL1	6	AMBER	(SEE NOTE 1)	GND
SPL2	12	AMBER	DIFF LOCK	GND
SPL3	13	AMBER		GND
-	14	GREEN	(SEE NOTE 2)	PWR
SPL4	16	RED		GND
SPL5	17	GREEN		GND
SPL6	18	RED	AIR KINGPIN RELEASE	GND
-	19	RED	(SEE NOTE 2)	GND
-	20	AMBER	(SEE NOTE 2)	PWR

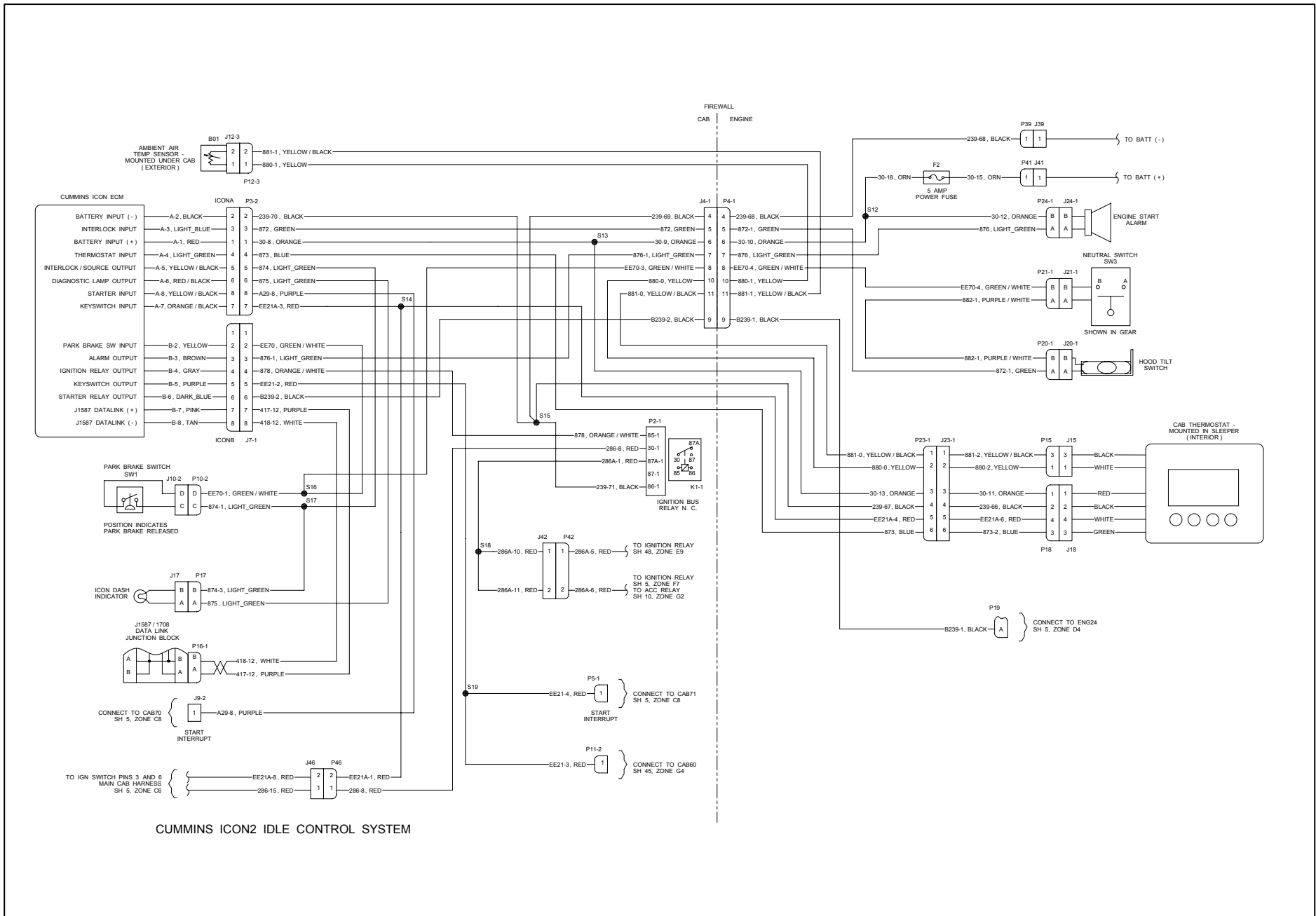
WARNING LIGHTS





REMOTE KEYLESS ENTRY (RKE)
(CENTRAL DOOR LOCKS)





CUMMINS ICON2 IDLE CONTROL SYSTEM

