

10 Electrical Systems and Wiring Diagrams.

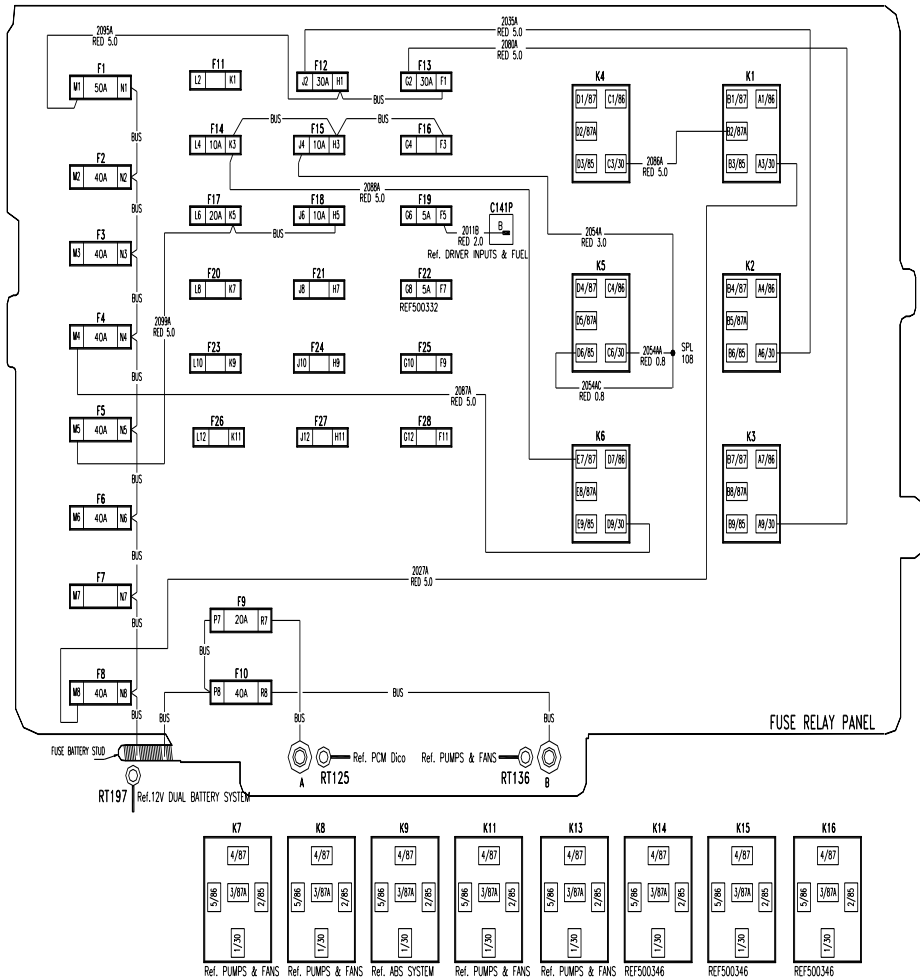


Figure 28 Fuse Pane

MAXI FUSES		
FUSE#	NAME	LOAD DESCRIPTION
F1	FANS	F12, F13
F2	PWRTRAIN PMP A	LOW TEMP COOLANT PUMP A
F3	STARTER	REDUNDANT STARTER
F4	IGNITION 1	F14, F15, F16
F5	PWRTRAIN BAT 1	F17, F18
F6	PWRTRAIN PMP B	LOW TEMP COOLANT PUMP B
F7	MAXI SPARE 2	SPARE
F8	ENG RUN/FUEL	ENG ECU INPUT, FUEL PMP, THROTTLE (TAC) INPUT, FUEL INJECTORS, COILS
F9	"A" STUD	F22 VIA C140
F10	"B" STUD	F32
MINI FUSES		
FUSE#	NAME	LOAD DESCRIPTION
F12	PWRTRAIN FAN 1	POWERTRAIN FAN 1
F13	PWRTRAIN FAN 2	POWERTRAIN FAN 2
F14	INERTIA SW	HV BATT PACK, DICO, RELAY COIL: K1, K2, K3, K4
F15	IGNITION 1	DUO MOTOR CONTROLLER, DC-DC ENABLE +, POWER STEERING ENABLE + ELECTRIC DRIVE SWITCH, CAN DIAGNOSTIC PORTS
F16	IGNITION SPARE	SPARE
F17	PWRTRAIN BAT 1	DICO (PCM), DICO SPL SVR
F18	PWRTRAIN BAT 2	HV BATT PACK, DUO MOTOR CONTROLLER
F19	CRANK	CRANK SIGNAL TO DICO
F22	DICO (PCM)	DICO (PCM)

EXTERNAL FUSES		
FUSE#	NAME	LOAD DESCRIPTION
F29	HV DC/DC CNVRTR	(16A) FUSE POWER FOR HV DC/DC OUTPUT FEED (IN JNCT BOX)
F30	HV PS INVRTR	(16A) FUSE FOR HV JUNCTION POST TO PS INVERTER (IN JNCT BOX)
F31	HV DC/DC CNVRTR	(16A) FUSE POWER FOR 2ND DC/DC OUTPUT FEED (IN JNCT BOX)
F32	AIR COND	(5A) FUSE TO DMOC245 - HOT WHEN HV ENABLE (ON RELAY BRACKET)
F33	HV AIR COND	(32A) HV FUSE FOR DMOC245 (IN JNCT BOX)
F39	STARTRANS	(150A) FUSE POWER FOR STARTRANS LOADS (IN BATT BOX)
F40	12V DC/DC B	(150A) FUSE FOR 12V DC/DC B (IN BATT BOX)
F41	12V DC/DC A	(150A) FUSE FOR 12V DC/DC A (IN BATT BOX)
F42	AZURE LOADS	(150A) FUSE POWER FOR AZURE LOADS (IN BATT BOX)
F43	WH LOADS	(150A) FUSE POWER FOR WH LOADS (IN BATT BOX)
INTERNATIONAL CAB FUSES		
FUSE#	NAME	LOAD DESCRIPTION
F34	B/U LAMPS	(15A) BACK-UP LAMPS (BOX 1013-F1, REF500346)
F35	IGN ENABLE	(20A) FEED WH F36, F37, F38 (BOX 1013-B1, REF500333)
F36	WASHER PUMP	(5A) WASHER FLUID PUMP (BOX 1014-F2, REF500346)
F37	GATEWAY CONT	(5A) MOTOTRON GATEWAY CONTROLLER (INLINE, REF500337)
RELAYS		
RELAY#	NAME	LOAD DESCRIPTION
K1	ENG RUN/FUEL	ENG ECU INPUT, FUEL PMP, THROTTLE (TAC) INPUT, FUEL INJECTORS, COILS
K2	FAN 1	POWERTRAIN FAN 1
K3	FAN 2	POWERTRAIN FAN 2
K4	CAB HTR PMP	CABIN HEATER PUMP
K5	PWR STEERING	POWER STEERING CONTROLLER ENABLE
K6	IGNITION	F14, F15, F16
EXTERNAL RELAYS		
RELAY#	NAME	LOAD DESCRIPTION
K7	PWRTRAIN PMP A	LOW TEMP COOLANT PUMP A
K8	STARTER	REDUNDANT STARTER
K9	ABS ACTIVE	DICO INPUT
K11	PWRTRAIN PMP B	LOW TEMP COOLANT PUMP B
K13	AIR COND ENABLE	DMOC 245 INVERTER
K14	WIPERS HI-LO	WINDSHIELD WIPER SPEED CTRL
K15	WIPERS PWR	WINDSHIELD WIPER POWER CTRL
K16	STOP LMP RLY	STOP LMP RELAY

Figure 29 Fuse Label

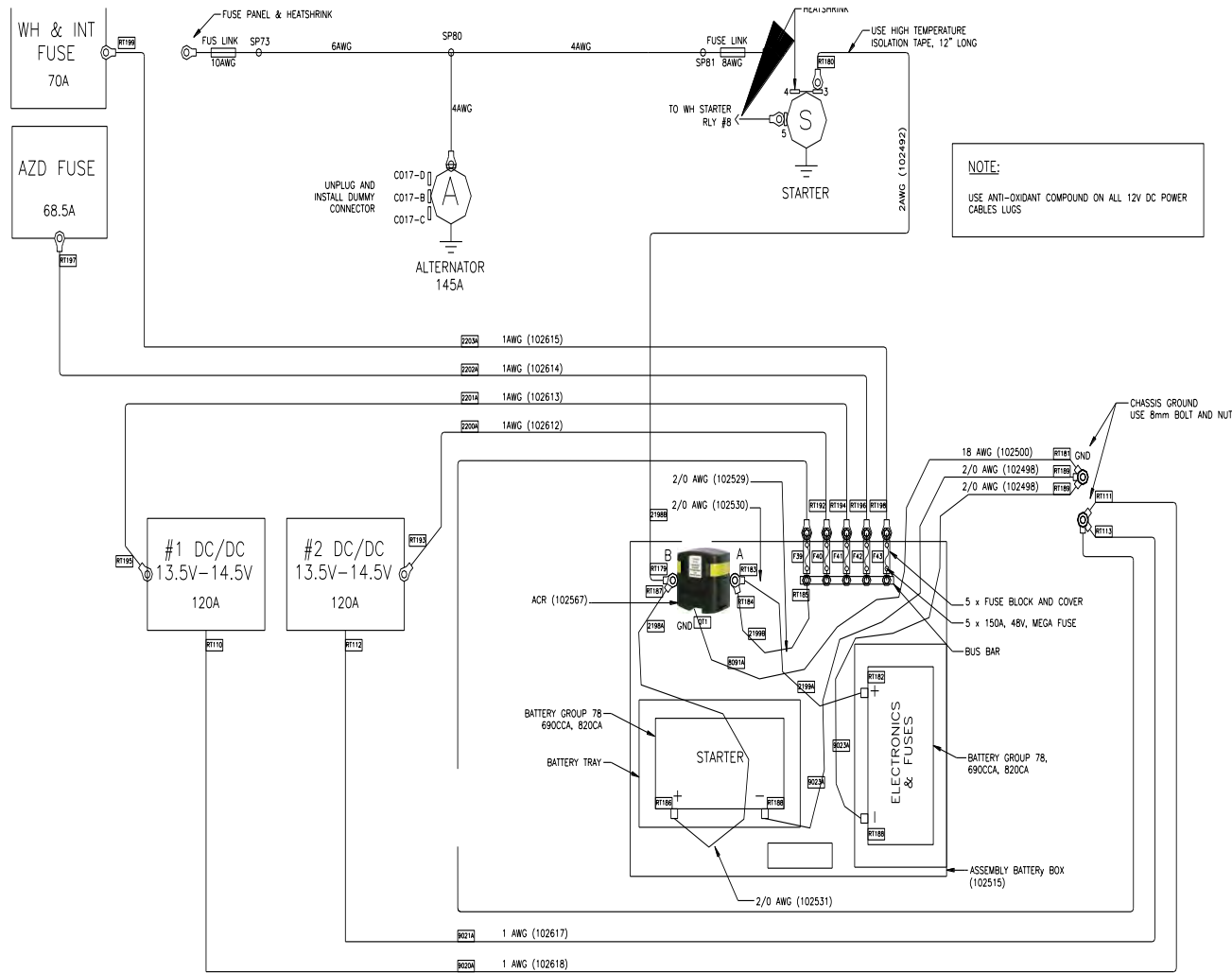
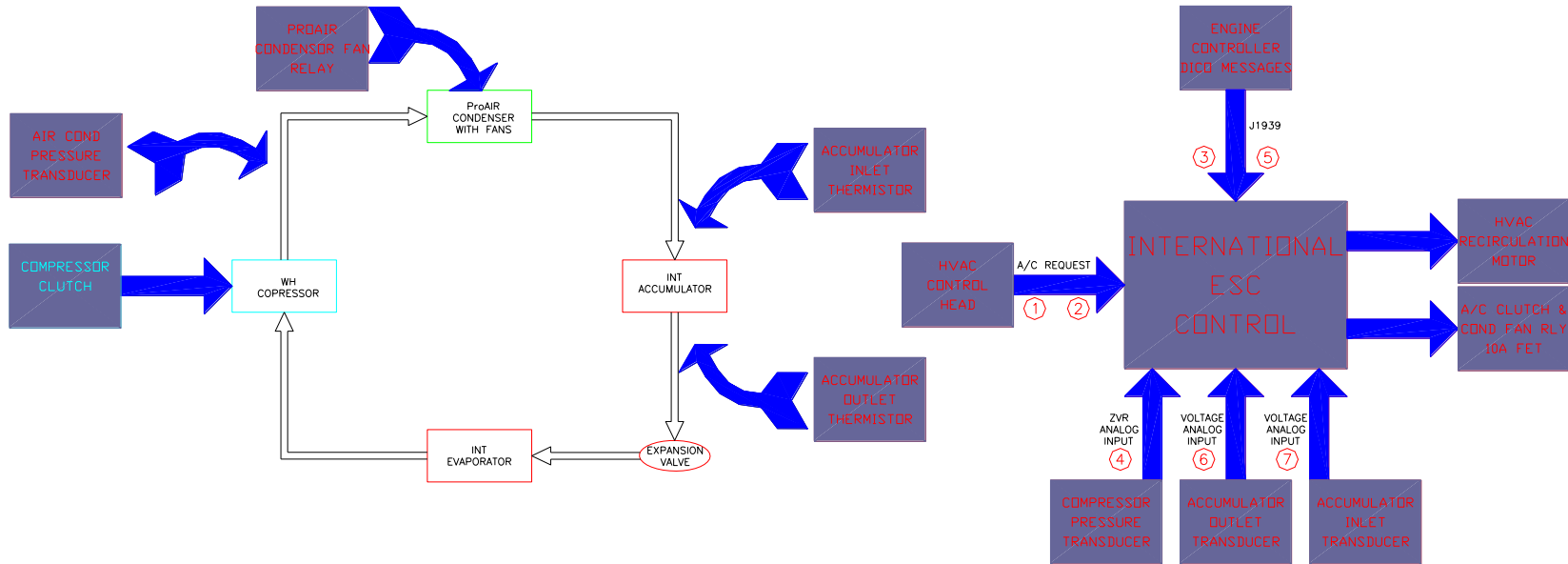


Figure 30 12 V Dual Battery



1 A/C SYSTEM BLOCK DIAGRAM
Scale: NTS

2 ESC CLUTCH CONTROLLED DIAGRAM
Scale: NTS

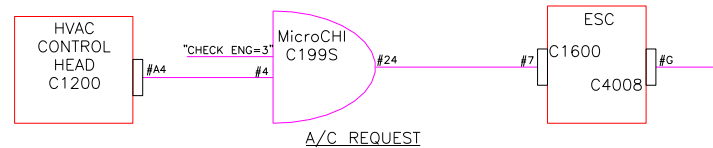


Figure 31 Cab AC System

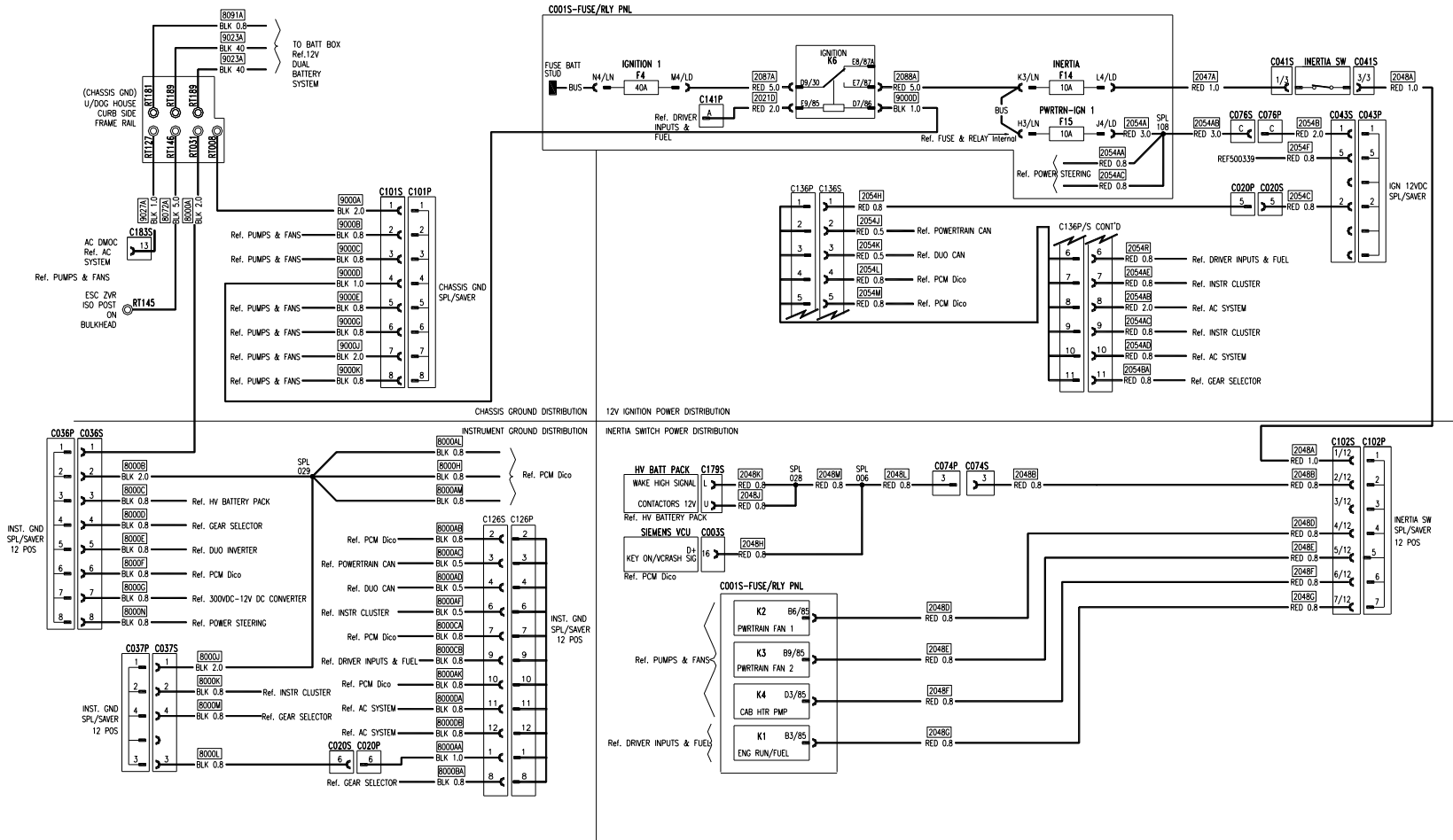


Figure 32 Inertia Switch

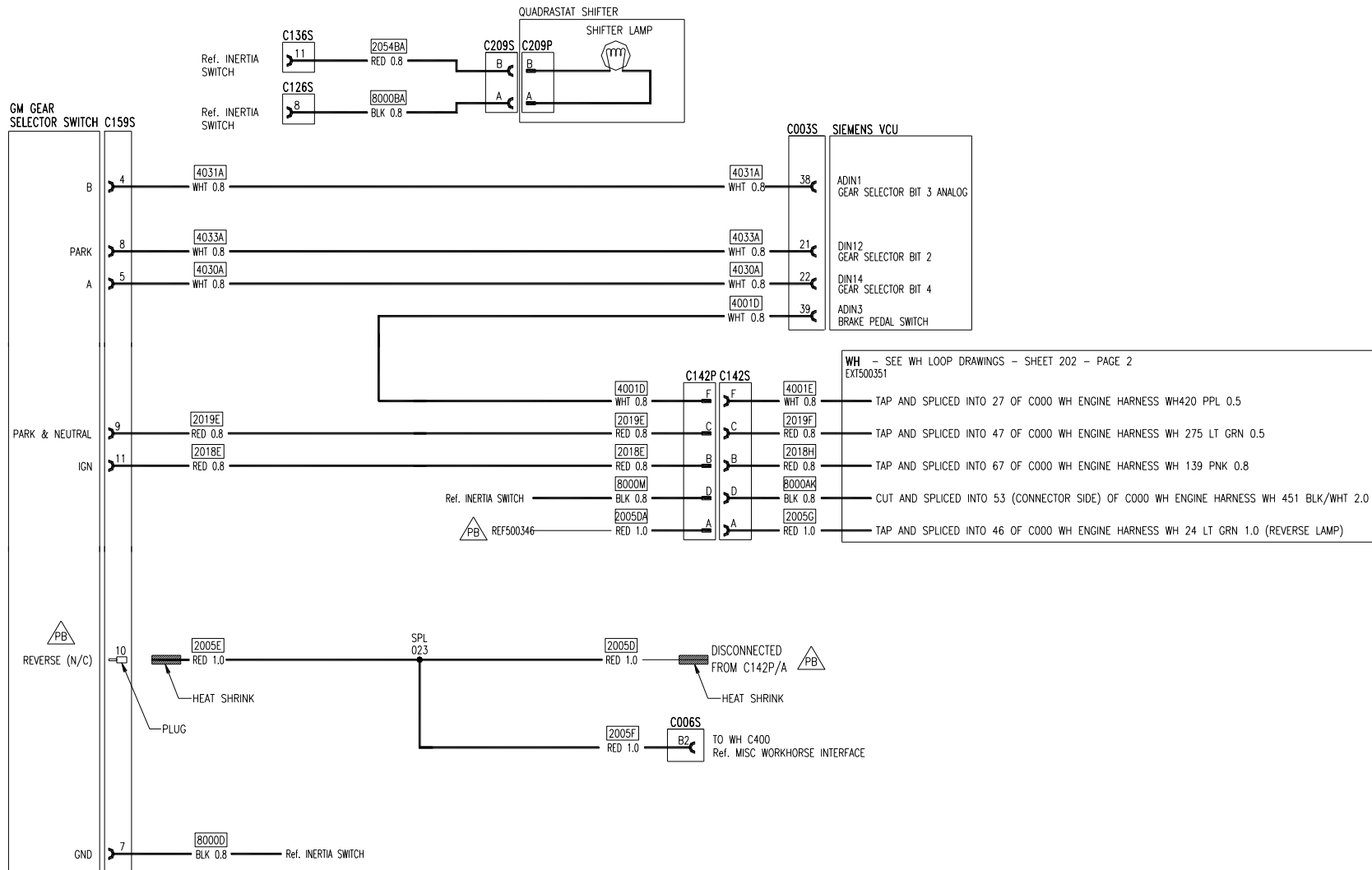


Figure 35 Gear Selector See REF500334-PB -- ELEC LOOP, GEAR SELECTOR, MY06 W42 GAS SB.

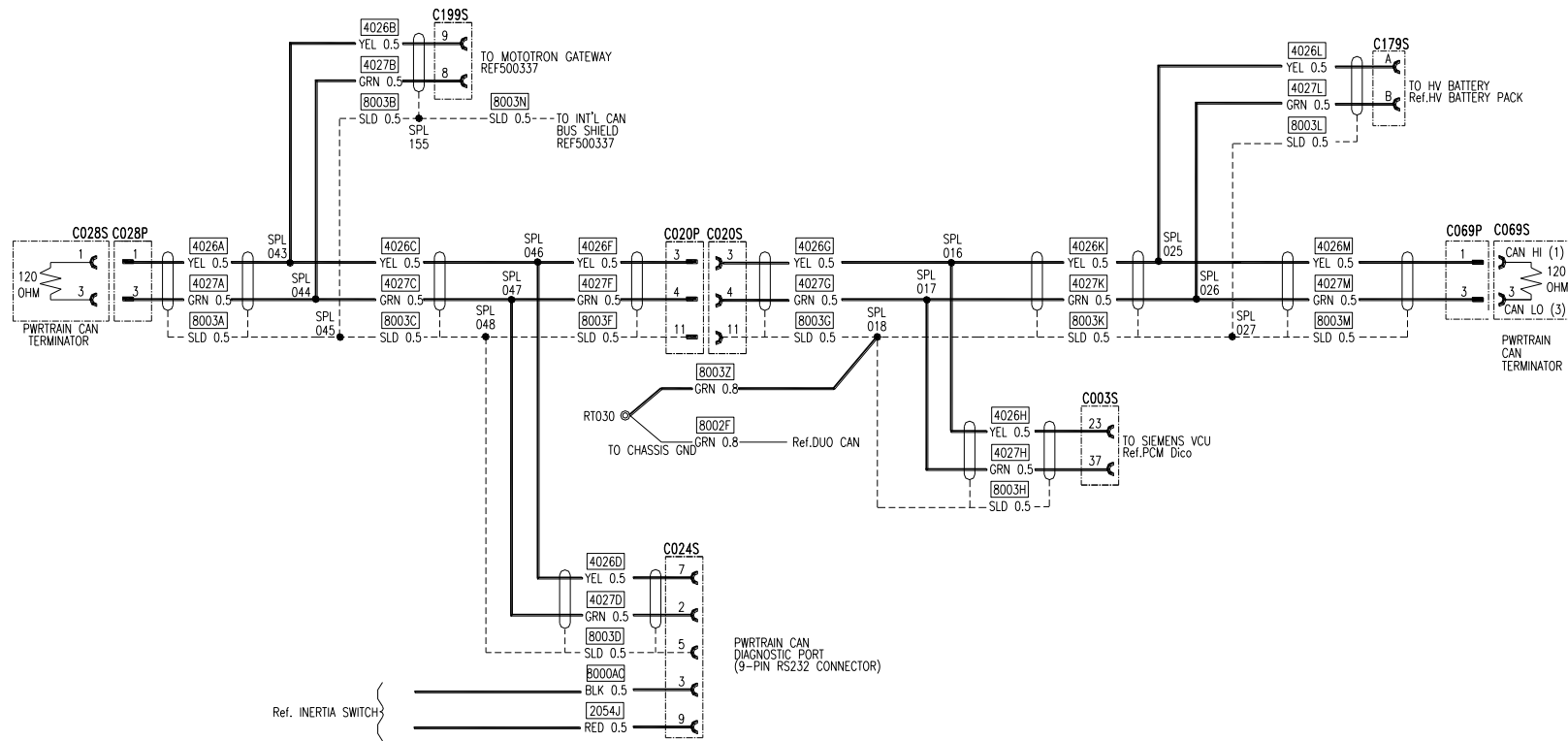


Figure 36 Powertrain CAN

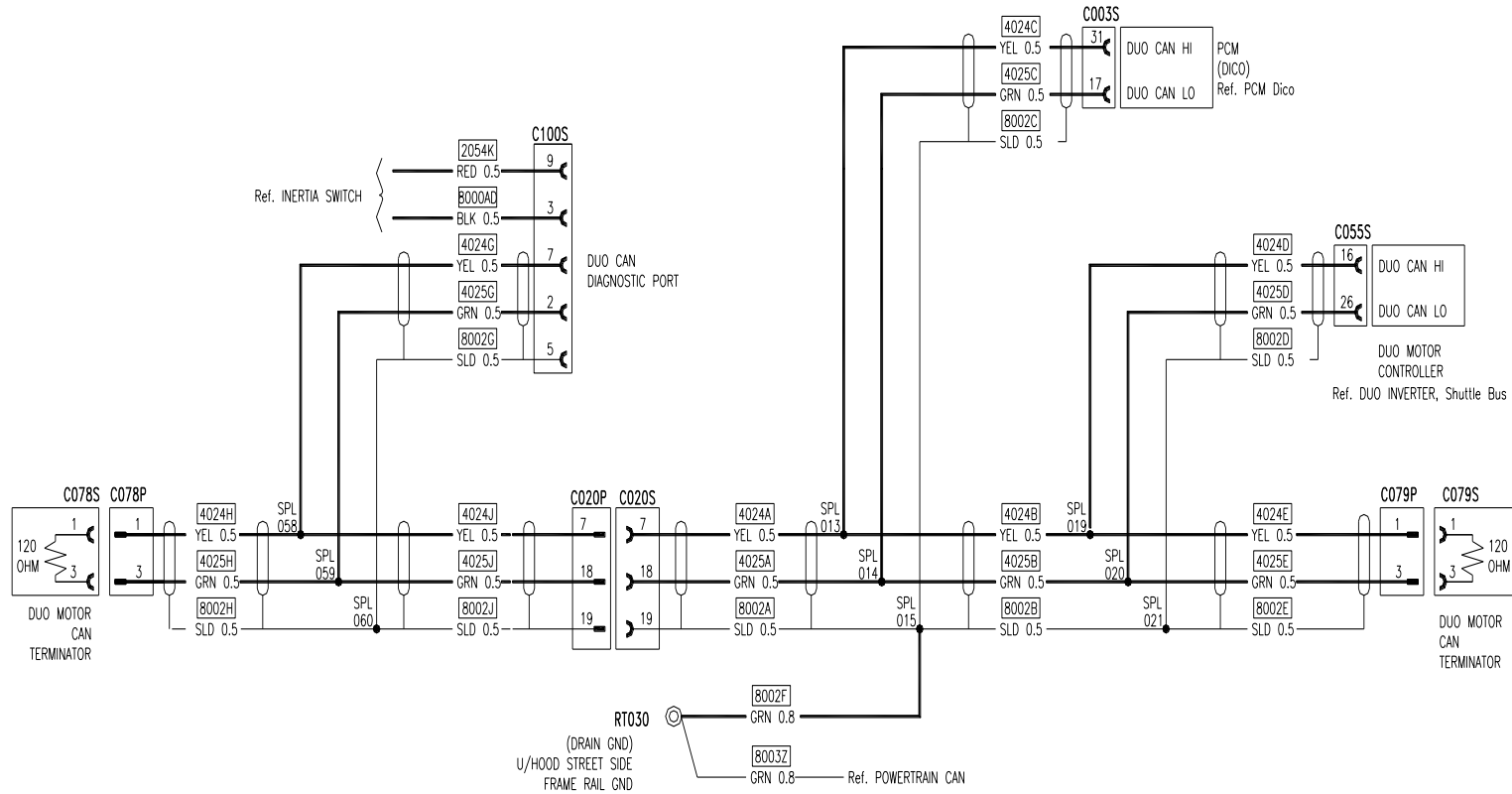


Figure 37 DUO CAN

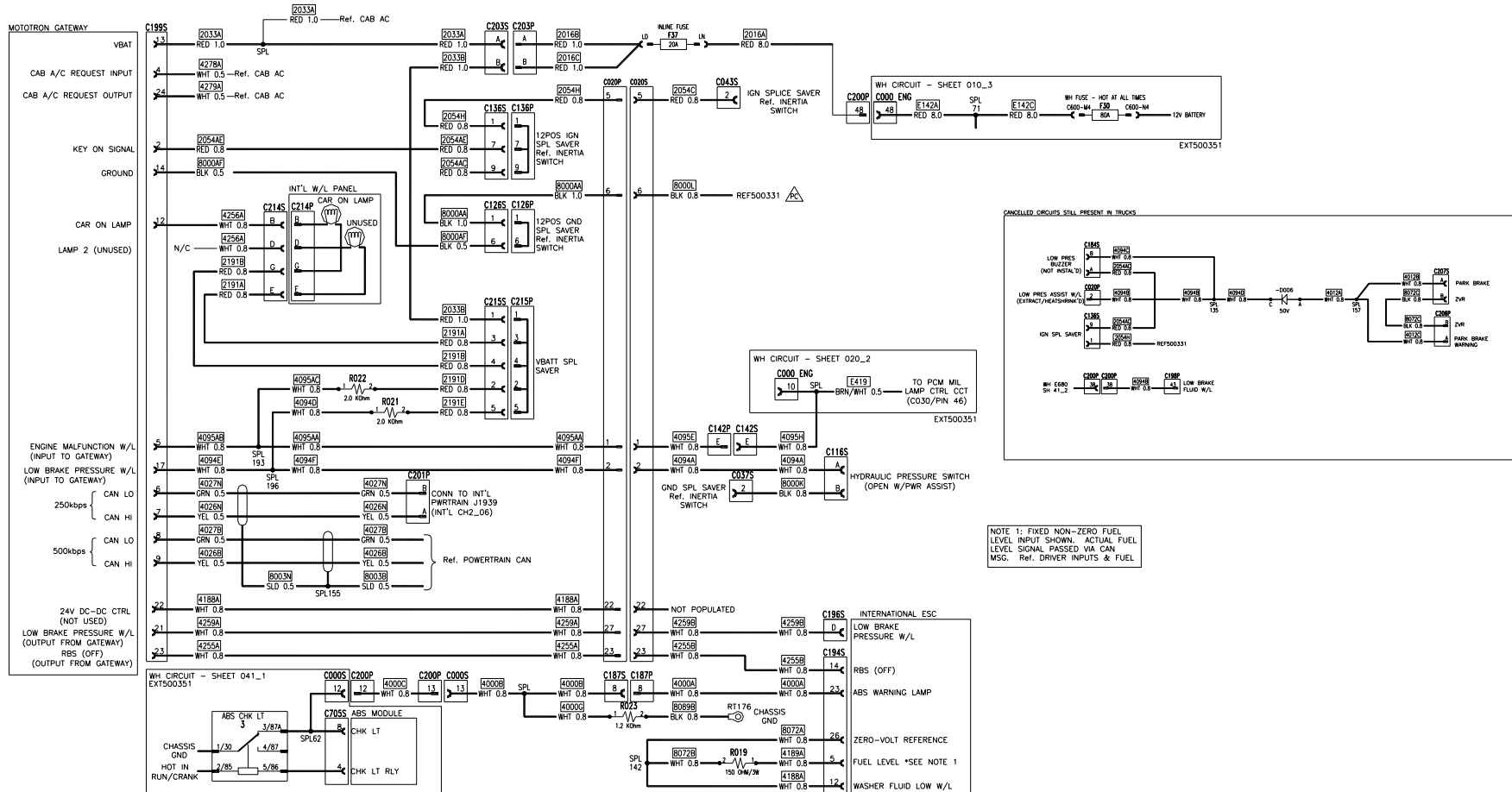


Figure 38 Instrument Cluster

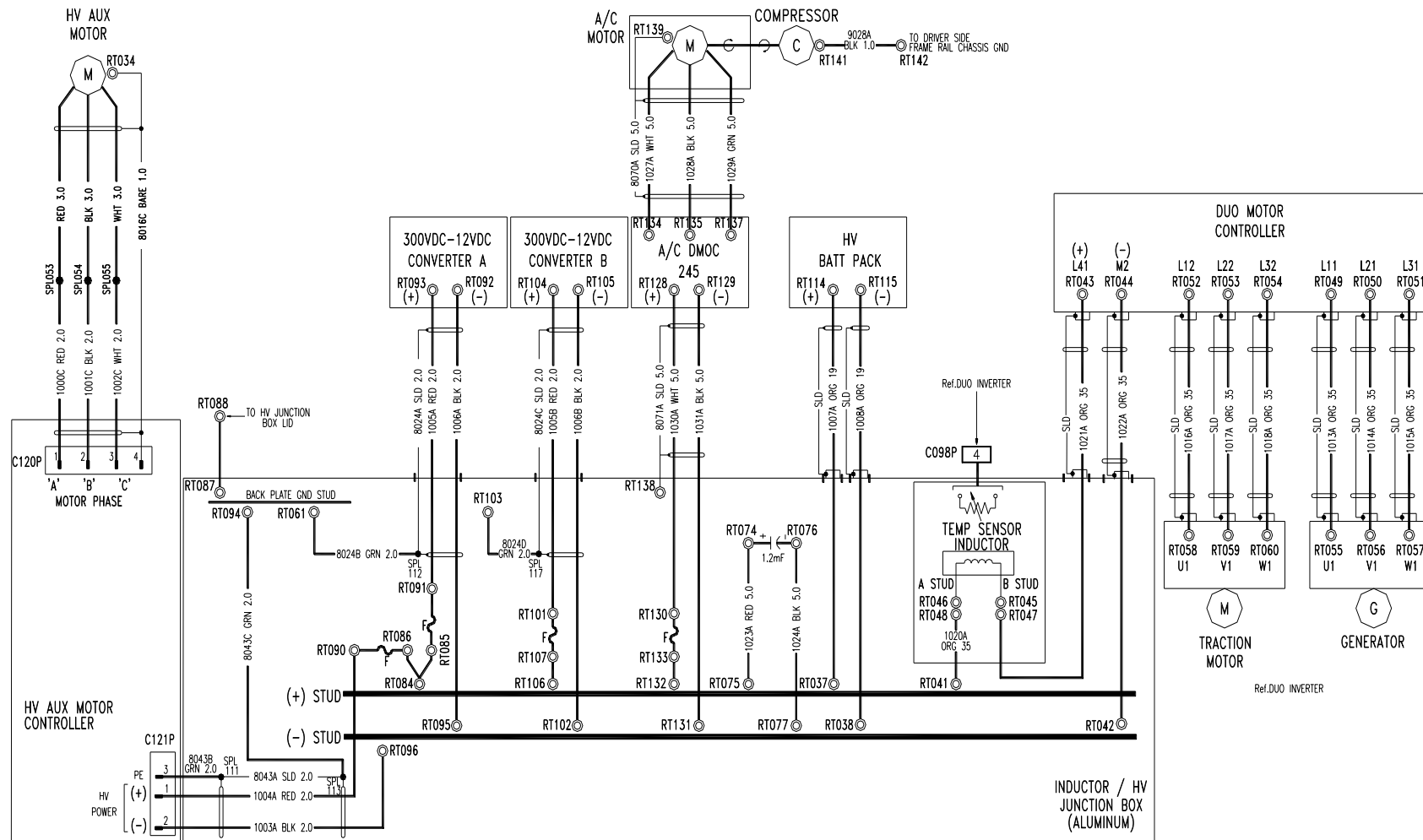


Figure 39 HV System

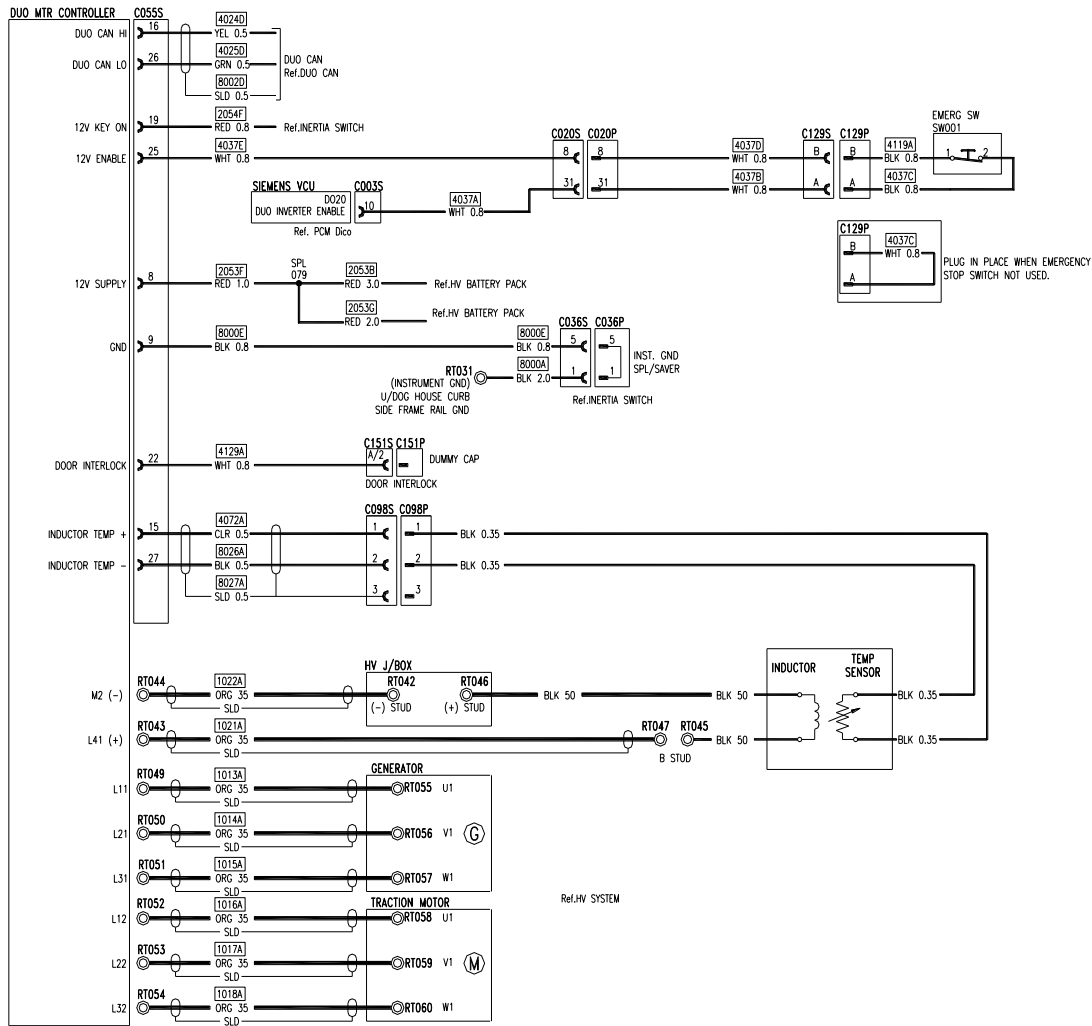


Figure 40 DUO Inverter

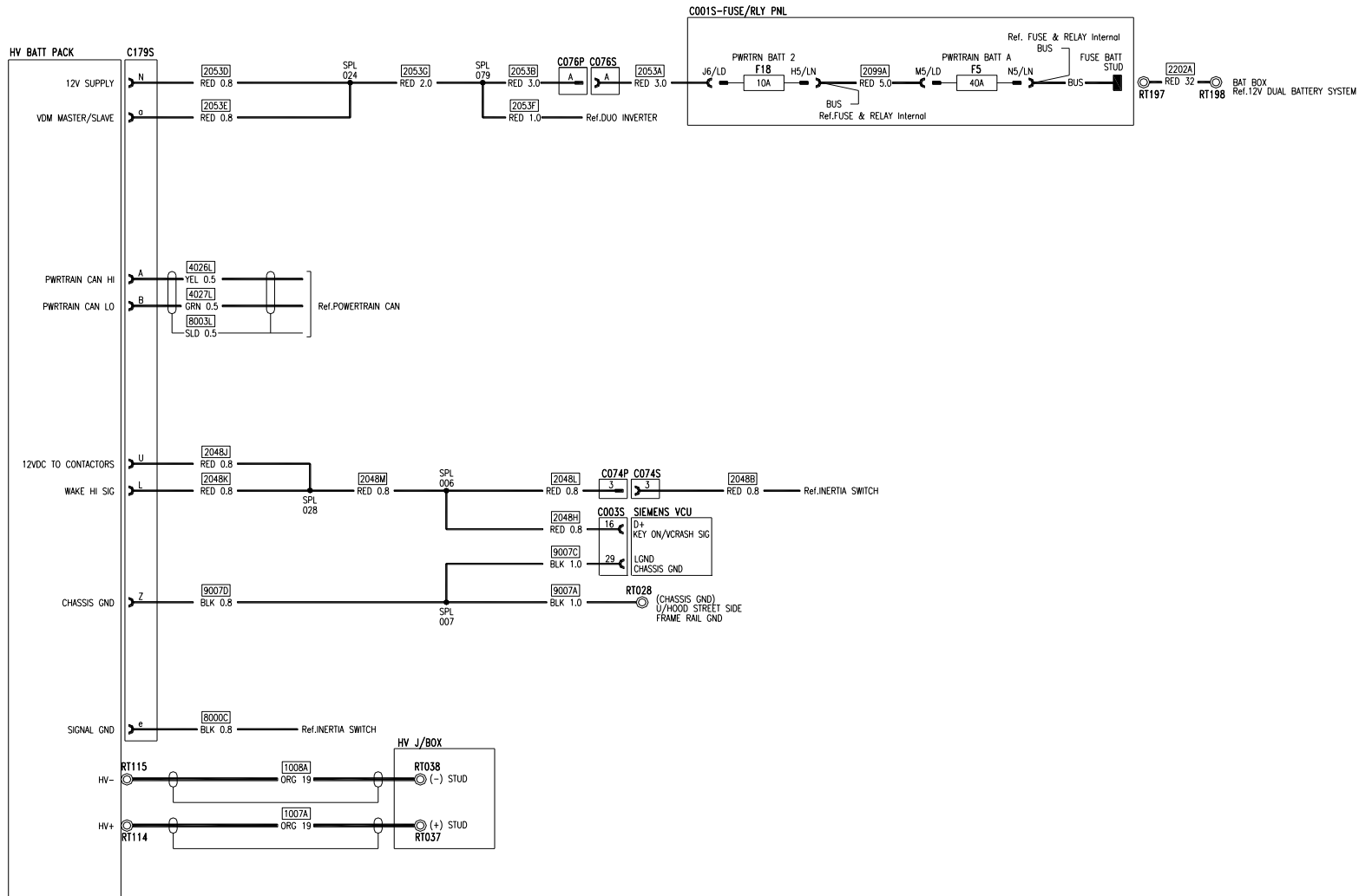


Figure 41 HV Battery Pack

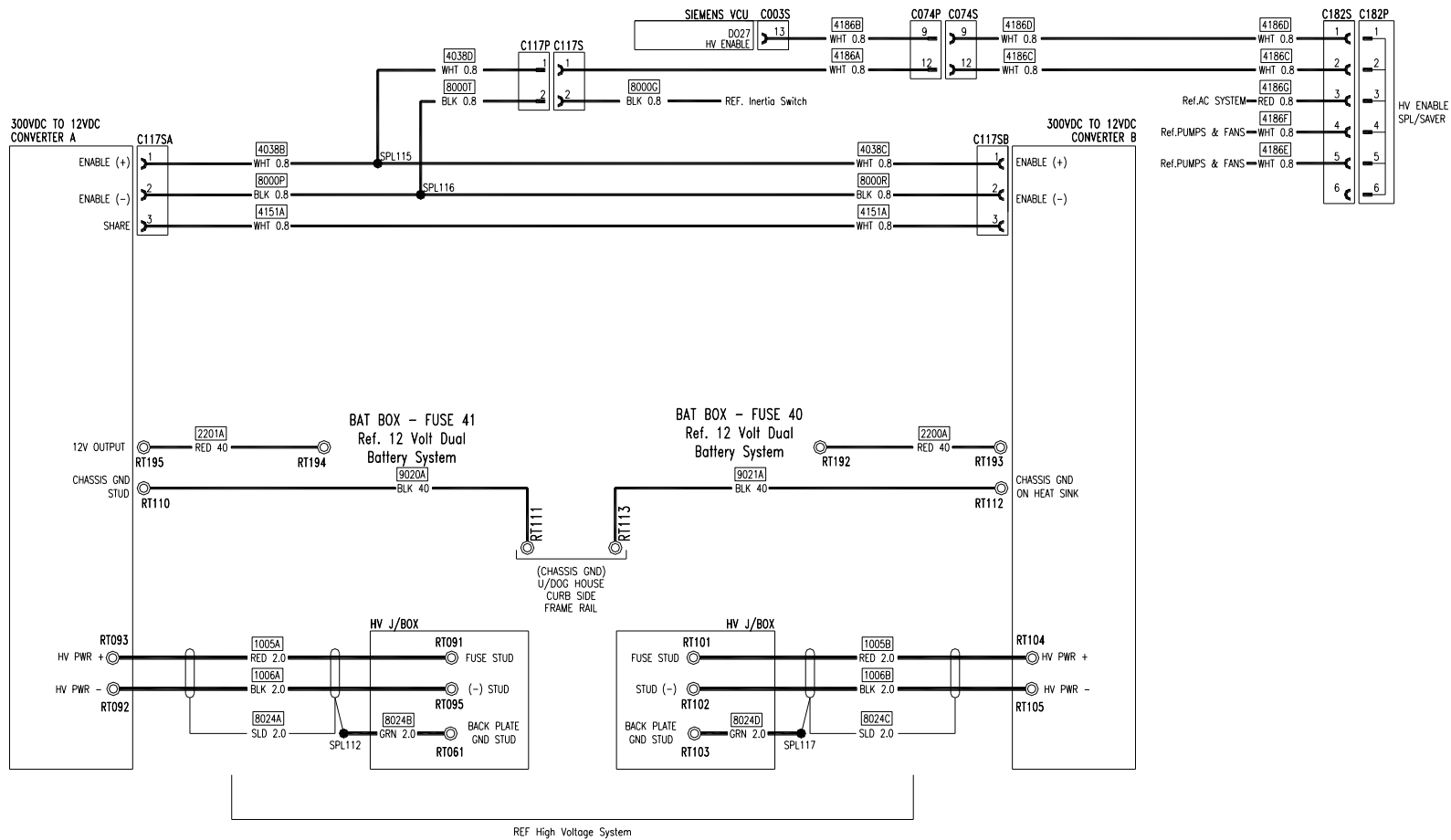


Figure 42 300VDC to 12 VDC Inverter

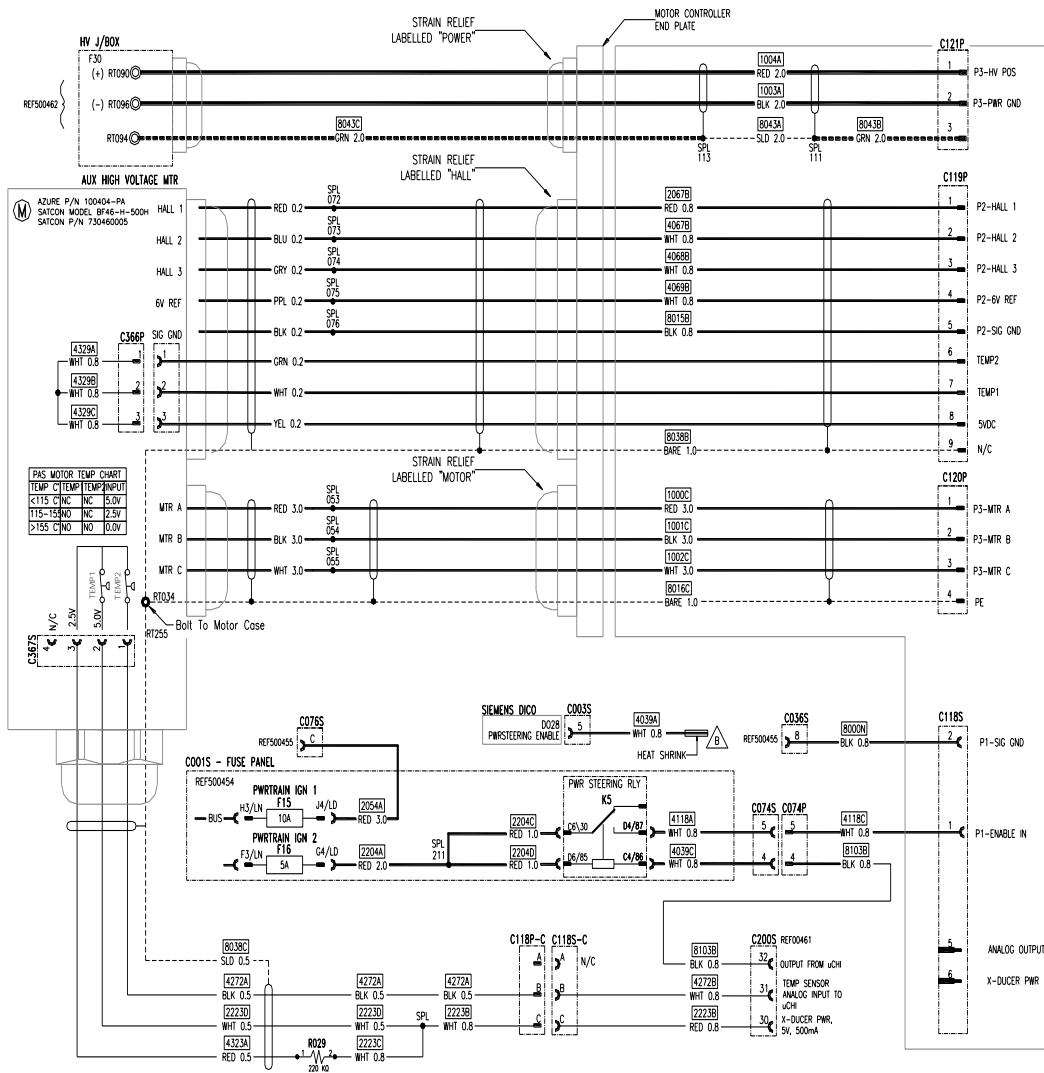


Figure 43 Power Assist System

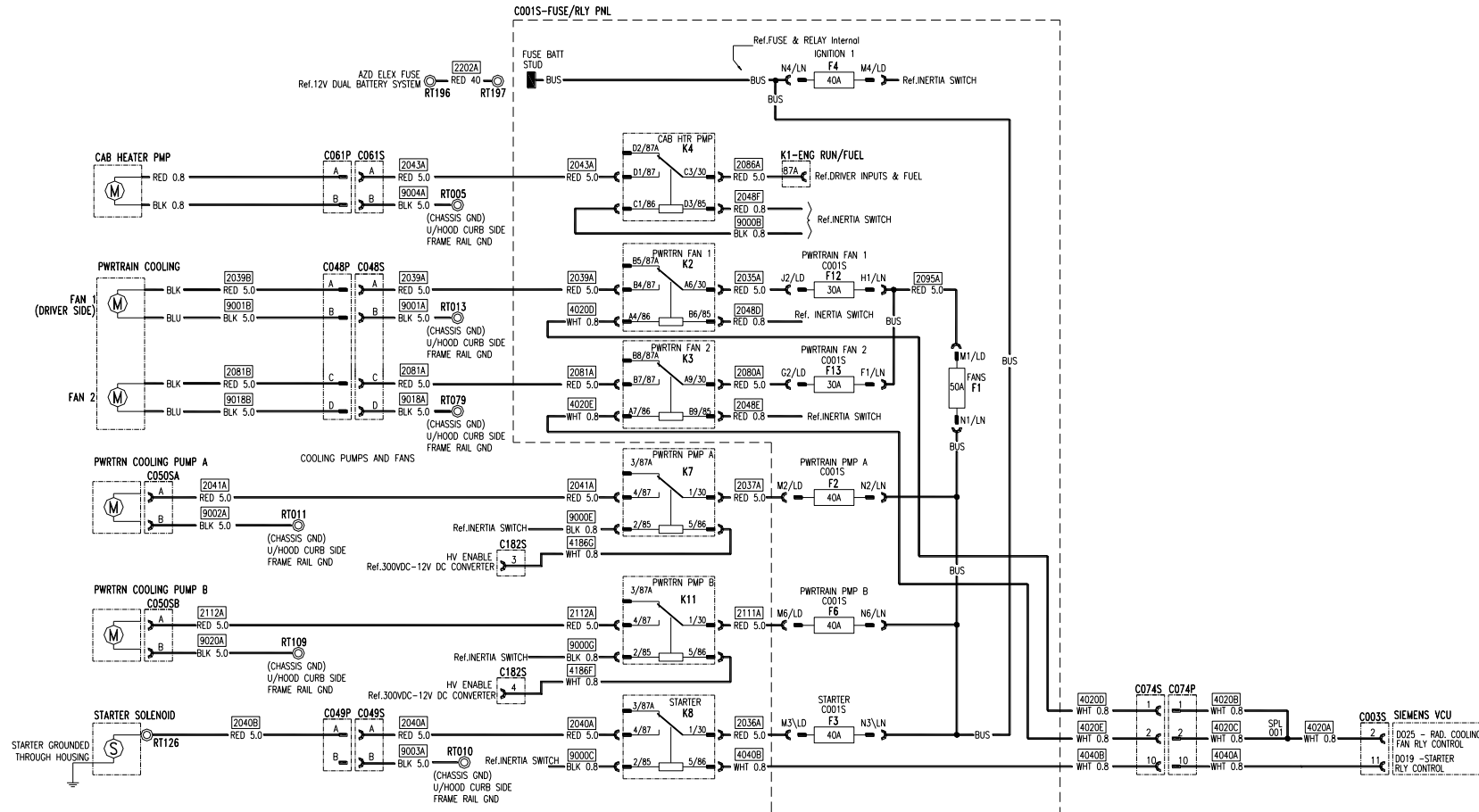


Figure 44 Pumps and Fans

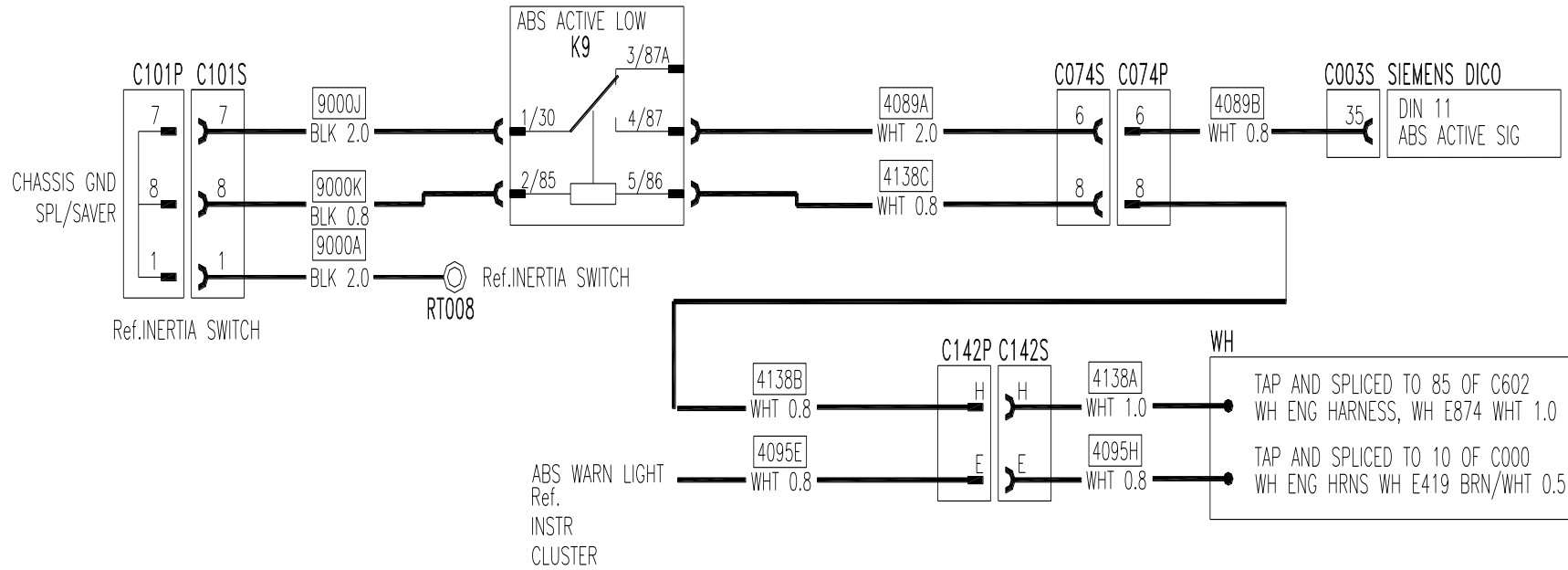


Figure 46 ABS System

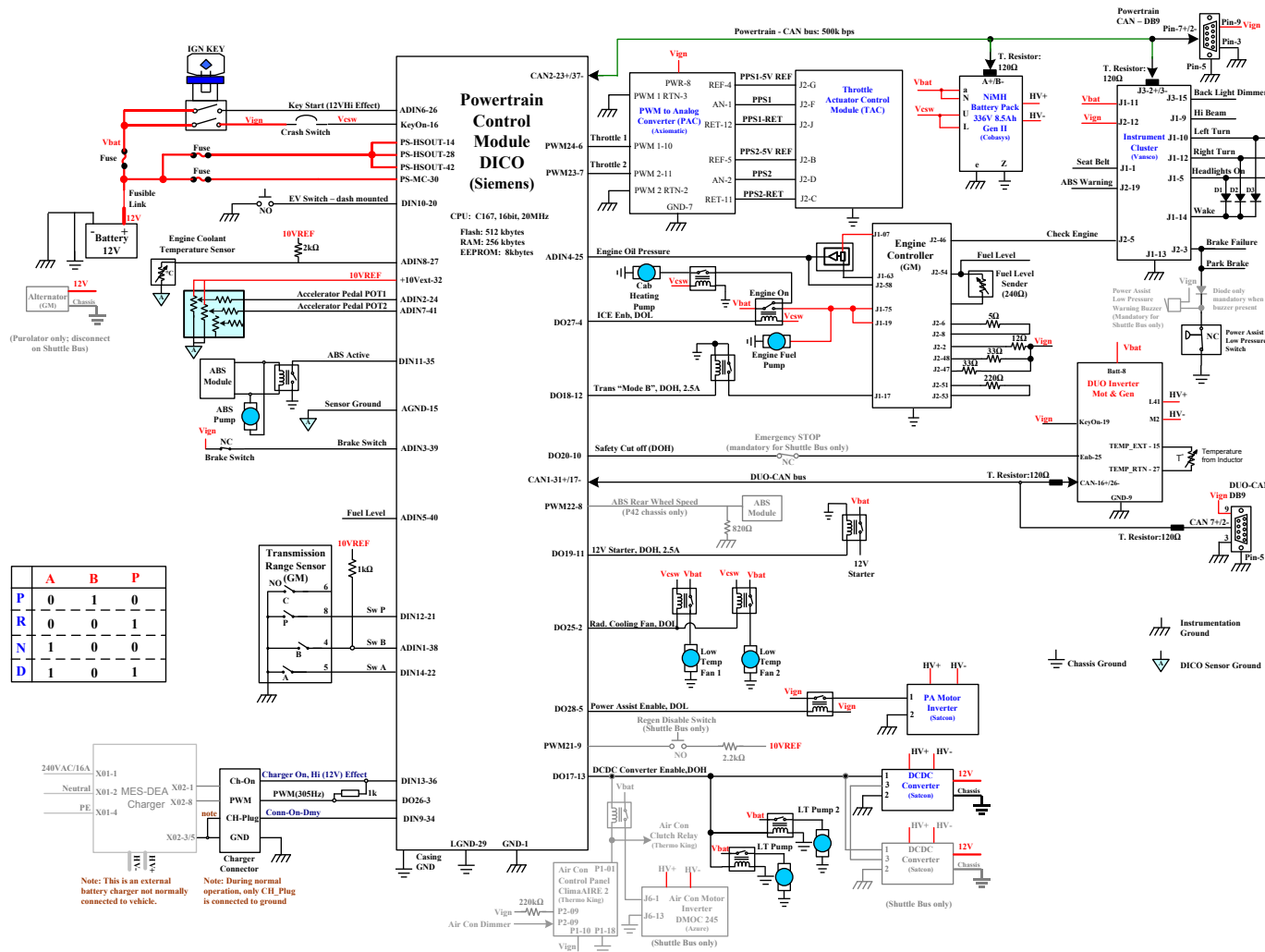


Figure 47 Vehicle Interface

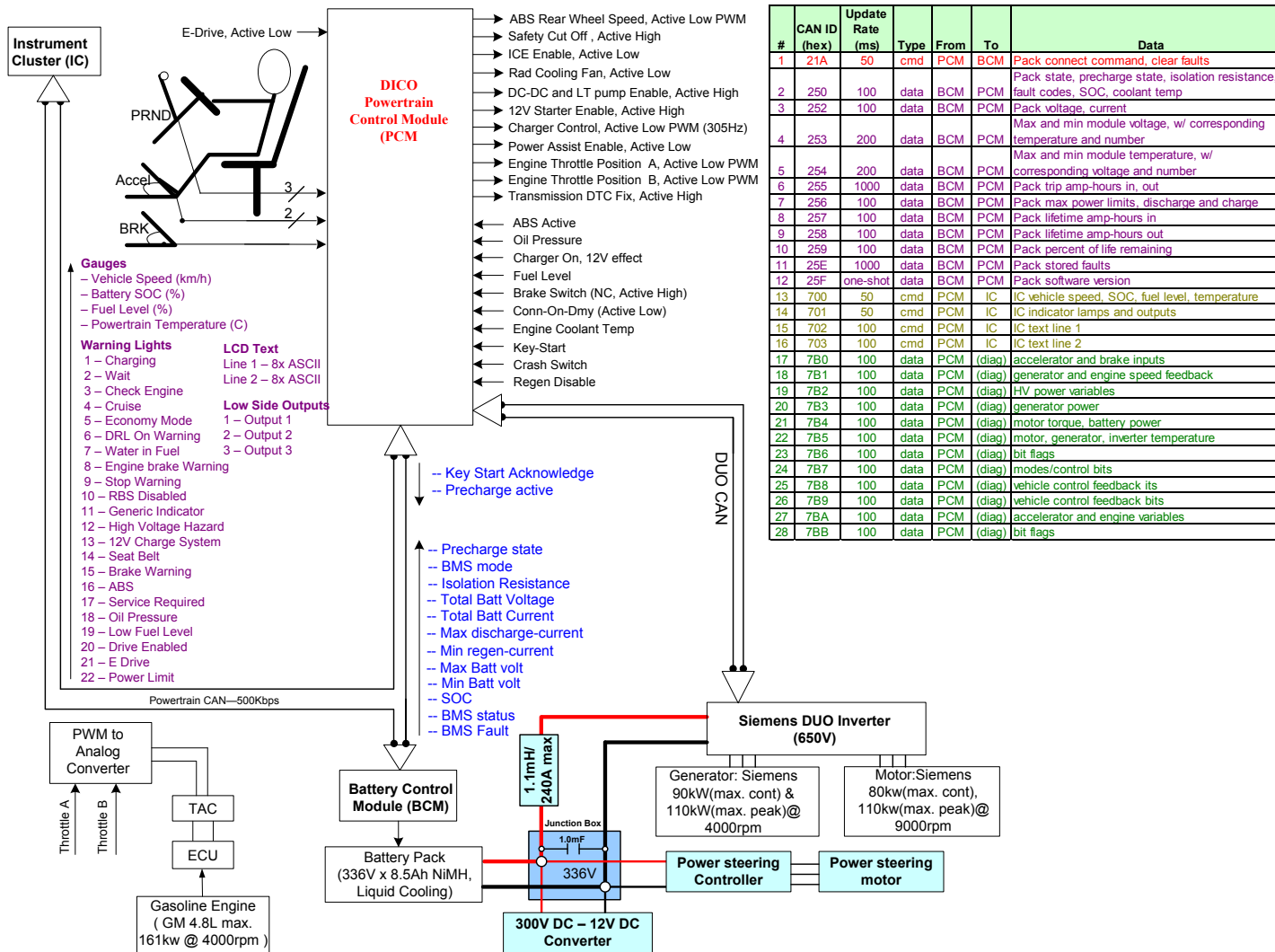


Figure 48 Block Diagram