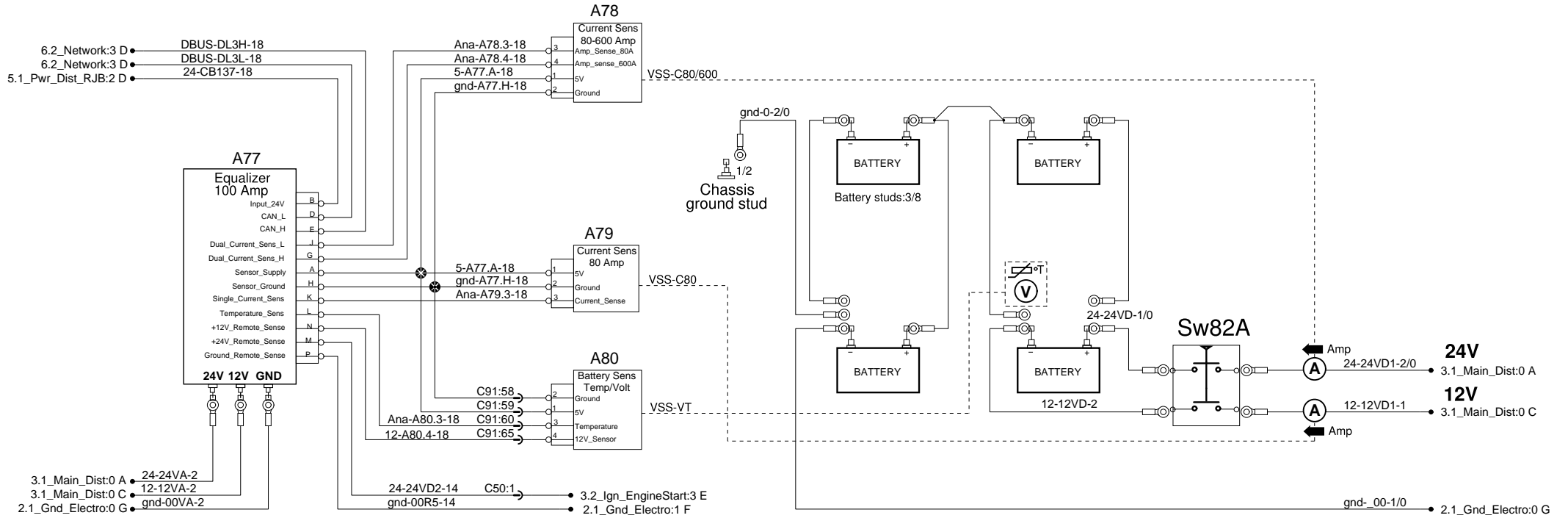
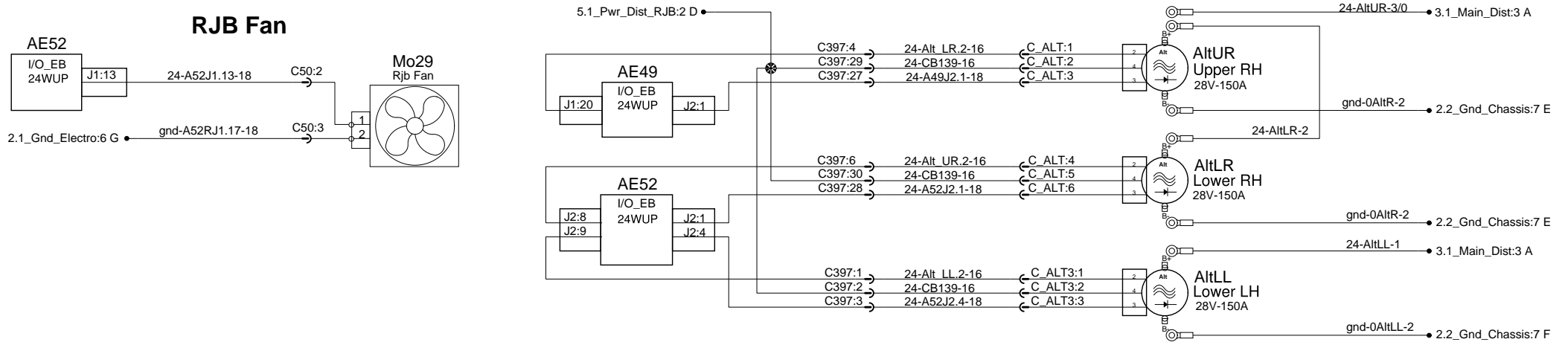


Batteries and alternators



Alternators



****Ground distribution:****

- 0-Electric gnd
- 00- Electronic Gnd

- A-Dash - Lh console harness
- F-Front junction box harness
- FH-Front harness
- R-Rear junction box harness
- FR-Front to rear
- P-Parcel Rack
- RS-RJB to Rear Seat

Dash harness

- gnd-00A-16 → 23.1_Indirect_Lights:1 B
- gnd-00A1-16 → 7.1_Mux_Power:4 B
- gnd-00A-18 → 3.2_Ign_EngineStart:0 B
- gnd-00A-18 → 10.1_Cluster:1 B
- gnd-00A-18 → 22.2_Reading_lamps:3 F
- gnd-00A-18 → 18.4_Upper_Defroster:1 B
- gnd-00A-18 → 29.1_Entrance_door:1 D
- gnd-00A-18 → 22.2_Reading_lamps:6 F
- gnd-00A-18 → 22.2_Reading_lamps:2 F
- gnd-00A-18 → 19.1_Driver_Its:1 D
- gnd-00A-18 → 22.2_Reading_lamps:5 F
- gnd-00A-18 → 18.3_Parcel_Rack_4AC:2 B
- gnd-00A-18 → 12.1_Brake:3 A
- gnd-00A-18 → 10.1_Cluster:3 B
- gnd-00A-18 → 36.1_WCL_Ricon:2 A
- gnd-00A-18 → 40.1_Inverters:0 B
- gnd-00A-18 → 26.1_Front_Lighting:1 A
- gnd-00A-18 → 6.2_Network:4 C
- gnd-00A-18 → 26.1_Front_Lighting:1 E
- gnd-00A-18 → 3.1_Horn:1 C
- gnd-00A-18 → 14.1_Engine_Ecu:6 E
- gnd-00A-18 → 32.1_Kneeling:0 E
- gnd-00A-18 → 14.1_Engine_Ecu:7 E
- gnd-00A-18 → 16.1_ESP:0 A
- gnd-00A-18 → 12.1_Brake:1 D
- gnd-00A-18 → 35.5_PA_system:2 E
- gnd-00A-18 → 33.1_Luggage_LockUnlock:3 B
- gnd-00A-18 → 30.1_Drivers_Window:1 B
- gnd-00A-18 → 17.1_Pre_Heat:1 D

Lh console harness

Front harness

- gnd-00FH-16 → 9.1_Horn:4 C
- gnd-00FH-18 → 34.1_wiper_washer:2 E
- gnd-00FH-18 → 12.1_Brake:1 C
- gnd-00FH-18 → 32.1_Kneeling:1 C
- gnd-00FH1-12 → 18.1_Defroster:2 B
- gnd-00FH2-10 → 7.1_Mux_Power:2 C
- gnd-00FH2-10 → 7.1_Mux_Power:2 C

FJB harness

- gnd-00F1-12 → 7.1_Mux_Power:1 C
- gnd-00F1-12 → 7.1_Mux_Power:1 D
- gnd-00F2-12 → 7.1_Mux_Power:1 E
- gnd-00F3-16 → 7.1_Mux_Power:1 B
- gnd-00F4-12 → 28.1_Destination_Signs_and_Farebox:0 C
- gnd-00F4-14 → 35.8_INIT_Subsystems:0 B
- gnd-00F5-18 → 6.2_Network:4 B
- gnd-00F5-14 → 35.7_Camera_System:0 A
- gnd-00F-18 → 32.1_Kneeling:1 C
- gnd-00F-18 → 14.1_Engine_Ecu:7 C
- gnd-00F-18 → 4.1_Dist_12V_FJB:2 C
- gnd-00F-14 → 16.1_ESP:1 B
- gnd-00F-18 → 12.1_Brake:1 E
- gnd-00F-18 → 18.2_HvacPass:0 B
- gnd-00F-18 → 4.1_Dist_12V_FJB:4 A
- gnd-00F-18 → 4.1_Dist_12V_FJB:4 B
- gnd-00F-18 → 9.1_Horn:1 B
- gnd-00F-18 → 38.2_AFSS_AMEREX:1 C
- gnd-00F-18 → 12.1_Brake:1 A
- gnd-00F-18 → 17.1_Pre_Heat:0 C

RJB harness

- gnd-00R1-18 → 12.1_Brake:1 B
- gnd-00R1-18 → 6.2_Network:0 B
- gnd-00R1-14 → 17.1_Pre_Heat:3 E
- gnd-00R1-14 → 15.1_Transmission:0 A
- gnd-00R1-18 → 14.3_Tacho_Air_Coolant:1 C
- gnd-00R1-18 → 3.1_Main_Dist:1 A
- gnd-00R2-10 → 7.1_Mux_Power:2 E
- gnd-00R2-12 → 7.1_Mux_Power:2 D
- gnd-00R3-12 → 7.1_Mux_Power:4 C
- gnd-00R3-12 → 7.1_Mux_Power:4 D

REAR SEAT

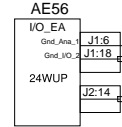
- gnd-00R4-12 → 7.1_Mux_Power:4 D
- gnd-00R4-12 → 7.1_Mux_Power:4 E
- gnd-00R4-16 → 7.1_Mux_Power:3 C
- gnd-00R4-18 → 33.2_LuggageLockSw:2 B
- gnd-00R5-14 → 14.2_Urea_OBD13:1 B
- gnd-00R5-12 → 14.1_Engine_Ecu:3 C
- gnd-00R5-14 → 1.1_batteries:0 B
- gnd-00VA-2 → 1.1_batteries:0 C
- gnd-00-170 → 1.1_batteries:2 B

Rr_Seat Electronic GND

- gnd-00P-12 → 18.3_Parcel_Rack_4AC:3 D
- gnd-00P-12 → 18.3_Parcel_Rack_4AC:3 E
- gnd-00P-12 → 18.3_Parcel_Rack_4AC:3 C
- gnd-00P-12 → 18.3_Parcel_Rack_4AC:3 C

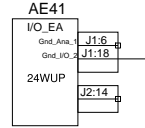
Electronic ground distribution

Dash

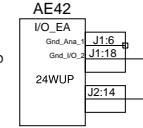


- gnd-A56RJ1.6-18 → 18.2_HvacPass:2 A

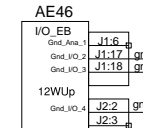
FJB



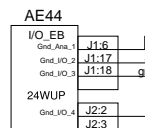
- gnd-A41RJ1.18-14 → 43.2_Auxiliary_Batteries:3 D



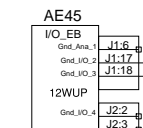
- gnd-A42RJ1.18-18 → 32.1_Kneeling:4 C
- gnd-A42RJ2.14-18 → 12.1_Brake:1 E
- gnd-A42RJ2.14-18 → 32.1_Kneeling:1 C



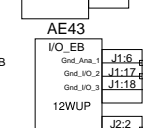
- gnd-A46RJ1.17-14 → 26.1_Front_Lighting:3 C
- gnd-A46RJ1.18-18 → 26.1_Front_Lighting:4 D
- gnd-A46RJ2.2-18 → 26.1_Front_Lighting:0 D



- gnd-A44RJ1.6-18 → 12.2_Brake_Wear:1 D
- gnd-A44RJ1.17-18 → 32.1_Kneeling:3 D
- gnd-A44RJ1.17-18 → 26.1_Front_Lighting:4 E
- gnd-A44RJ1.18-18 → 18.2_HvacPass:2 A
- gnd-A44RJ2.2-18 → 19.1_Driver_Its:3 A
- gnd-A44RJ2.2-18 → 29.1_Entrance_door:3 D
- gnd-A44RJ2.3-16 → 35.5_PA_system:3 A
- gnd-A44RJ2.3-16 → 34.1_wiper_washer:3 B

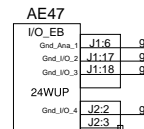


- gnd-A45RJ1.17-18 → 31.1_Mirror_FlatConvex:2 B
- gnd-A45RJ1.18-18 → 37.2_SteeringCtrl:2 B

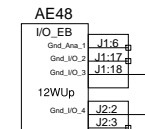


- gnd-A43RJ1.18-18 → 39.1_TPMS:2 C

RH console JB

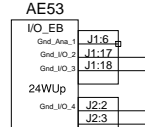


- gnd-A47RJ1.6-18 → 18.1_Defroster:2 E
- gnd-A47RJ1.17-18 → 18.1_Defroster:3 C
- gnd-A47RJ1.18-18 → 29.1_Entrance_door:1 C
- gnd-A47RJ2.2-18 → 34.1_wiper_washer:3 C
- gnd-A47RJ2.2-18 → 29.1_Entrance_door:3 B



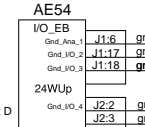
- gnd-A48RJ1.18-18 → 12.1_Brake:3 E
- gnd-A48RJ1.18-18 → 26.1_Front_Lighting:4 B
- gnd-A48RJ2.2-14 → 26.1_Front_Lighting:3 A

Parcel Rack JB



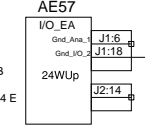
- gnd-A53RJ1.17-18 → 18.3_Parcel_Rack_4AC:2 C
- gnd-A53RJ1.18-16 → 20.1_Emeroy_Light:5 B
- gnd-A53RJ2.3-14 → 18.5_Parcel_Rack_2AC:2 D
- gnd-A53RJ2.3-14 → 22.2_Reading_lamps:8 D

Evaporator



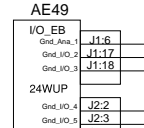
- gnd-A54RJ1.6-18 → 18.2_HvacPass:1 D
- gnd-A54RJ1.17-16 → 18.2_HvacPass:0 C
- gnd-A54RJ1.18-14 → 18.3_Parcel_Rack_4AC:5 B
- gnd-A54RJ2.2-16 → 18.2_HvacPass:4 B
- gnd-A54RJ2.2-16 → 18.5_Parcel_Rack_2AC:4 E
- gnd-A54RJ2.3-16 → 18.2_HvacPass:5 D
- gnd-A54RJ2.3-16 → 18.2_HvacPass:5 C

WCL

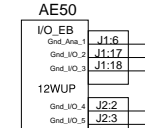


- gnd-A57RJ1.18-18 → 36.1_WCL_Ricon:5 B
- gnd-A57RJ1.18-18 → 36.1_WCL_Ricon:3 C
- C32W:10 → 36.1_WCL_Ricon:3 B

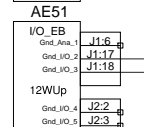
RJB



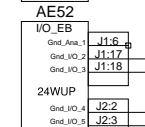
- gnd-A49RJ1.6-18 → 40.1_Inverters:1 C
- gnd-A49RJ1.17-18 → 32.1_Kneeling:3 E
- gnd-A49RJ1.18-18 → 37.1_VLink_Adry_OSep:3 E
- gnd-A49RJ2.2-18 → 13.1_FanDriveElectric:1 D
- gnd-A49RJ2.3-16 → 36.1_WCL_Ricon:7 A



- gnd-A50RJ1.6-18 → 12.2_Brake_Wear:3 D
- gnd-A50RJ1.17-18 → 26.2_Rear_lights:2 E
- gnd-A50RJ1.18-18 → 26.2_Rear_lights:2 B
- gnd-A50RJ2.2-16 → 5.2_Pwr_Dist_P Rack:0 B
- gnd-A50RJ2.2-16 → 26.3_Backup_Warnings:3 B
- gnd-A50RJ2.2-16 → 37.1_VLink_Adry_OSep:2 C



- gnd-A51RJ1.17-14 → 26.4_Front_Trailer:3 E
- gnd-A51RJ1.17-18 → 26.2_Rear_lights:1 D
- gnd-A51RJ1.18-16 → 36.1_WCL_Ricon:6 A
- gnd-A51RJ2.14-18 → 43.2_Auxiliary_Batteries:1 B



- gnd-A52RJ1.17-16 → 1.1_batteries:1 D
- gnd-A52RJ1.18-18 → 11.1_Lavatory:2 B
- gnd-A52RJ1.18-18 → 25.1_Luggages_Cmpt:0 B
- gnd-A52RJ1.18-18 → 25.1_Luggages_Cmpt:2 A
- gnd-A52RJ2.2-18 → 14.1_Engine_Ecu:5 A
- gnd-A52RJ2.3-18 → 3.2_Ign_EngineStart:1 C

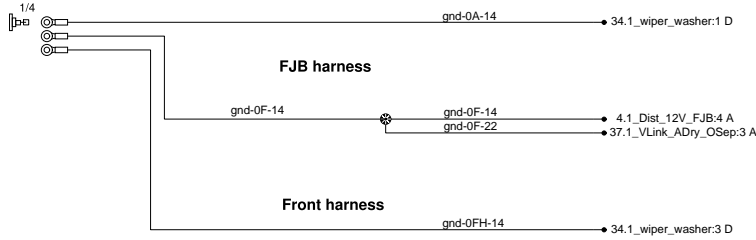
****Ground distribution:****

0-Electric gnd
00- Electronic Gnd

A-Dash - Lh console harness
F-Front junction box harness
FH-Front harness
R-Rear junction box harness
FR-Front to rear

Chassis ground distribution

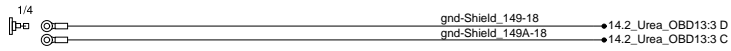
Front GND stud



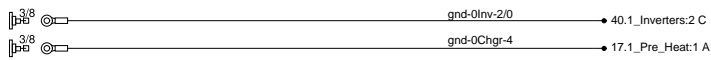
Evaporator cmpt. stud



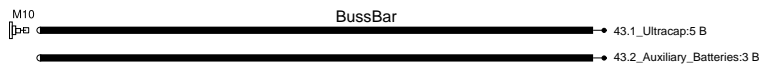
Urea cmpt. stud



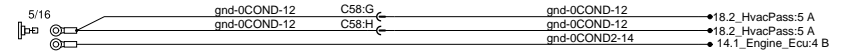
Parcel rack stud #1



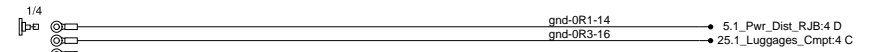
Luggage chassis stud



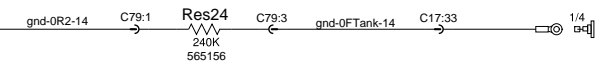
Condensor cmpt. stud



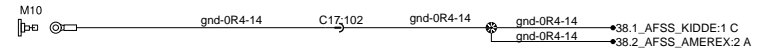
RJB stud



Fuel tank ground stud



RJB Stud AFSS GND



Front radiator stud



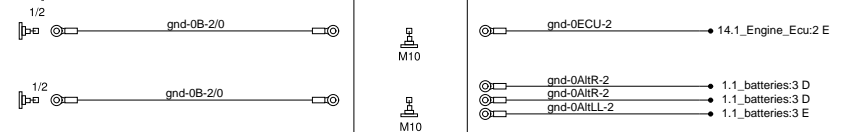
Radiator door stud

Rear radiator stud

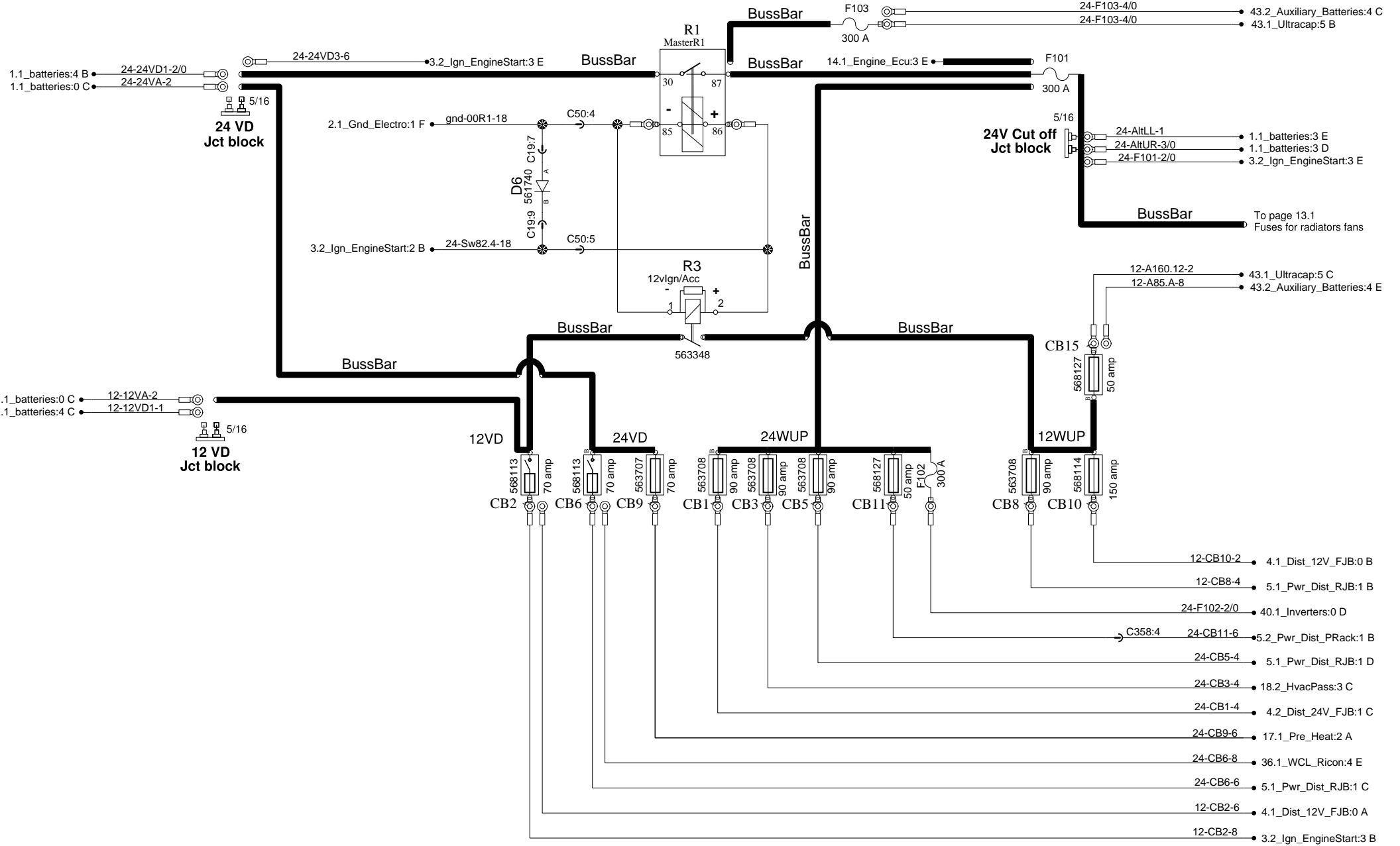


Engine studs

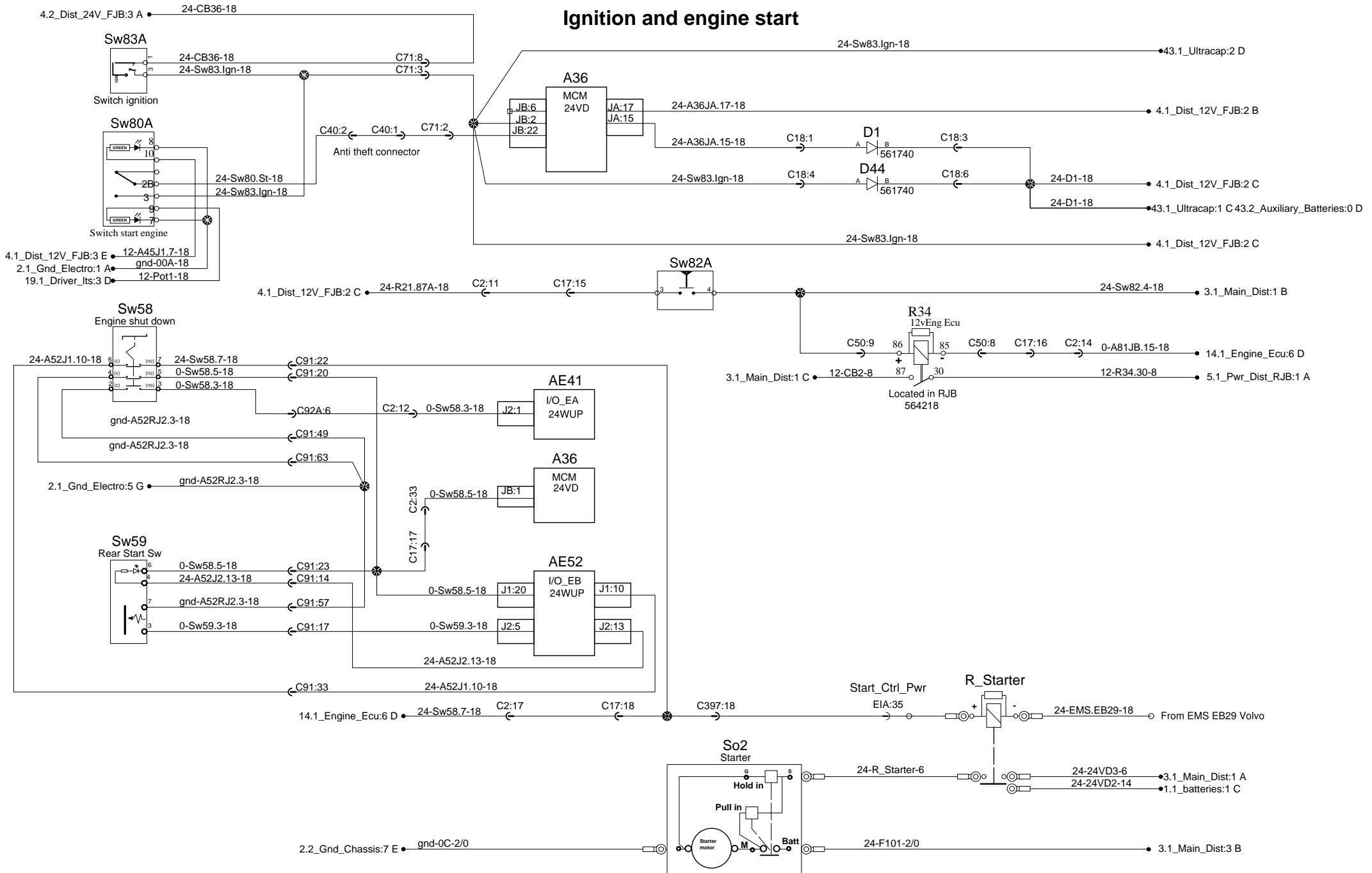
Engine cmpt. studs



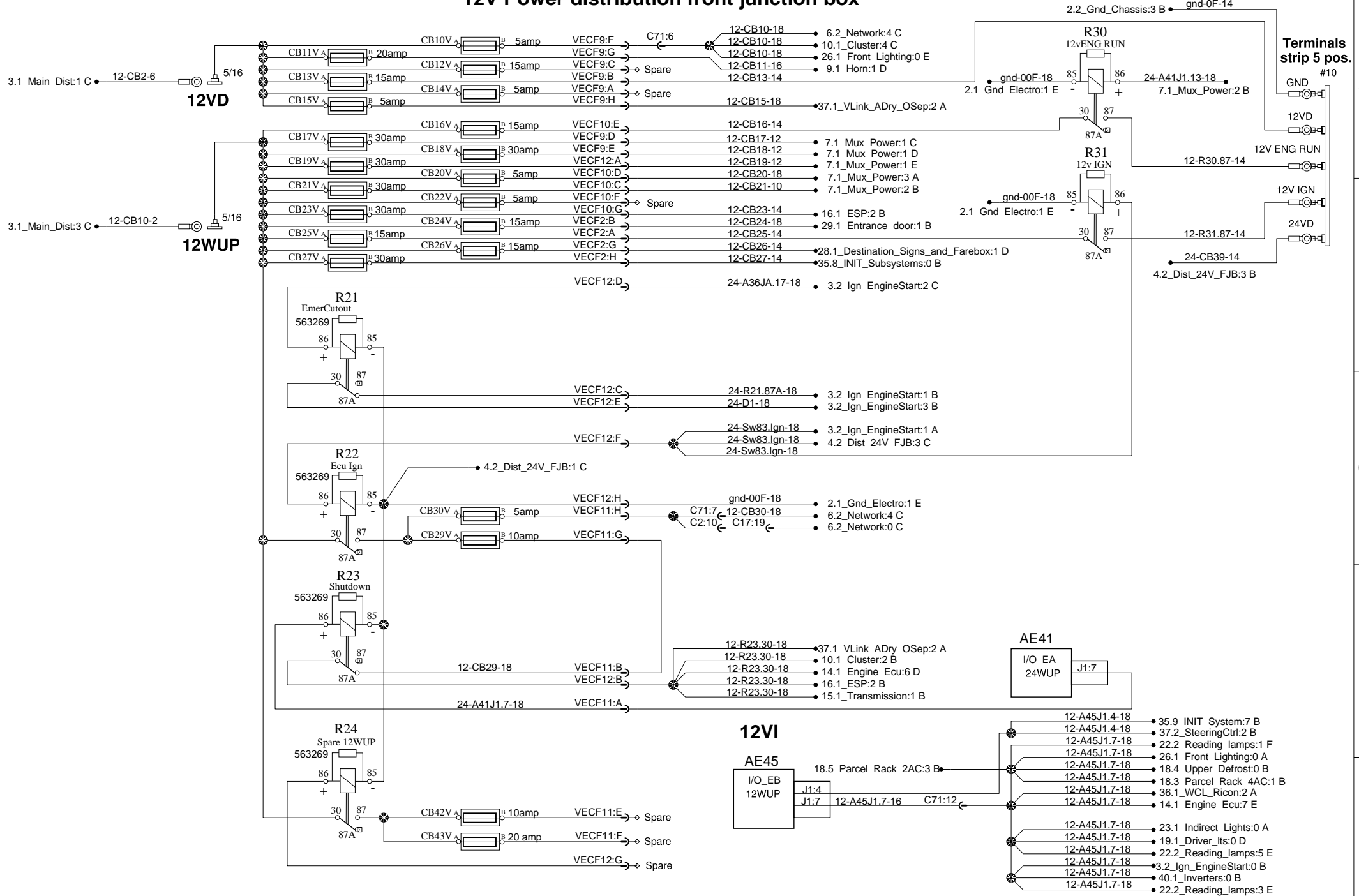
Main distribution batteries & ignition



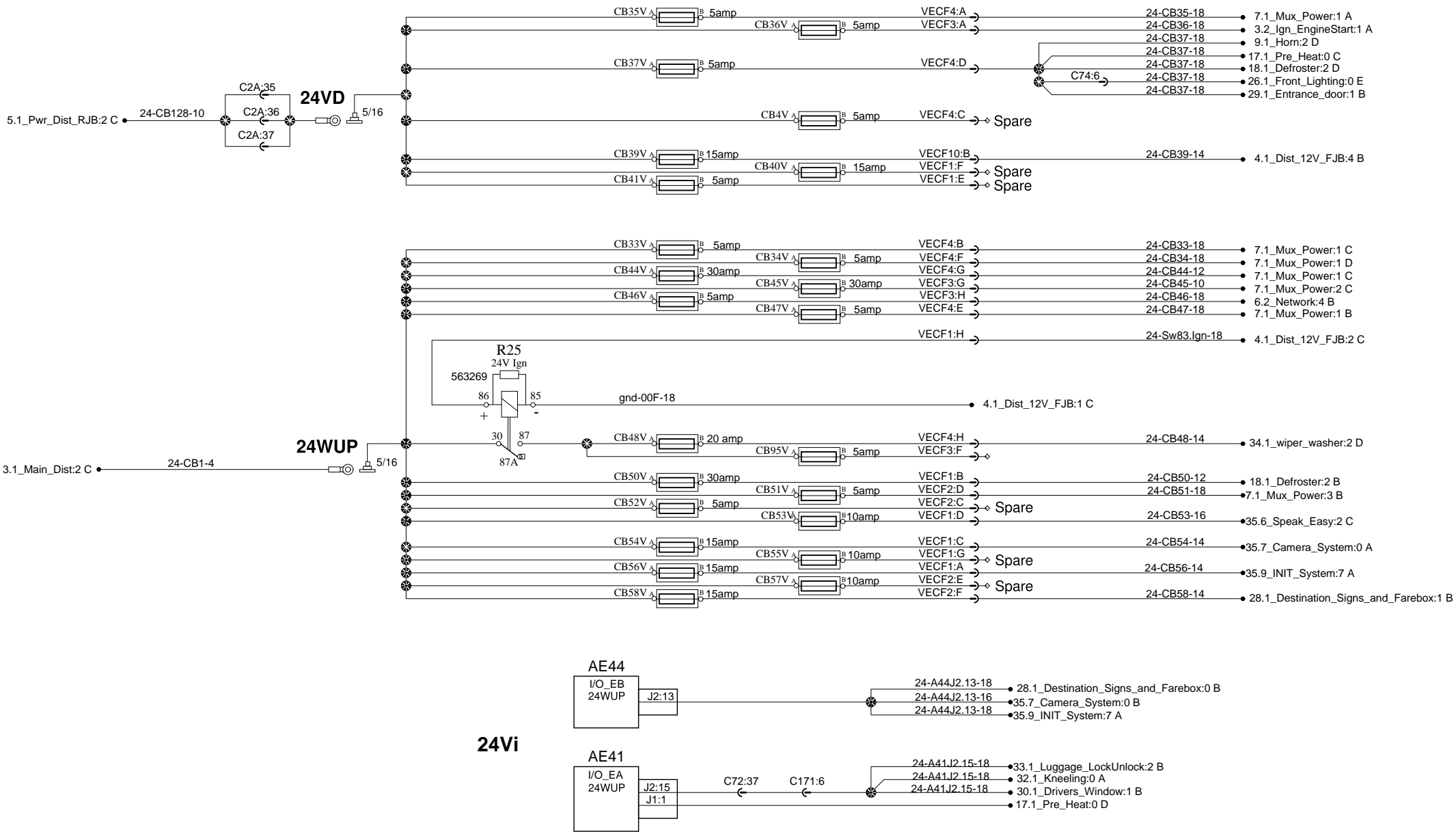
Ignition and engine start



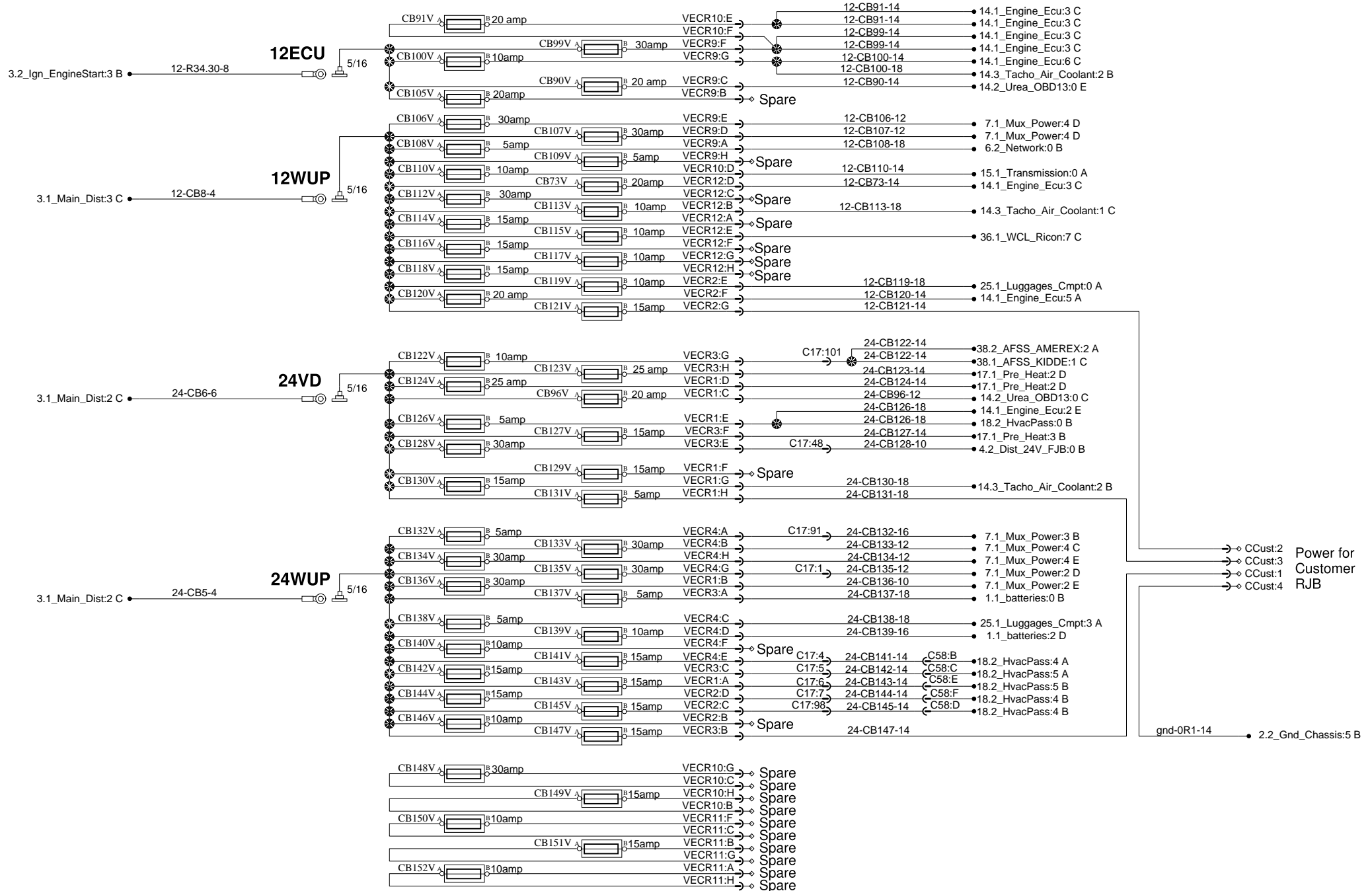
12V Power distribution front junction box



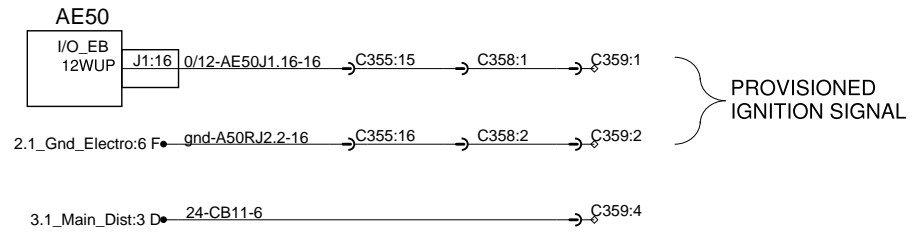
24V Power distribution front junction box



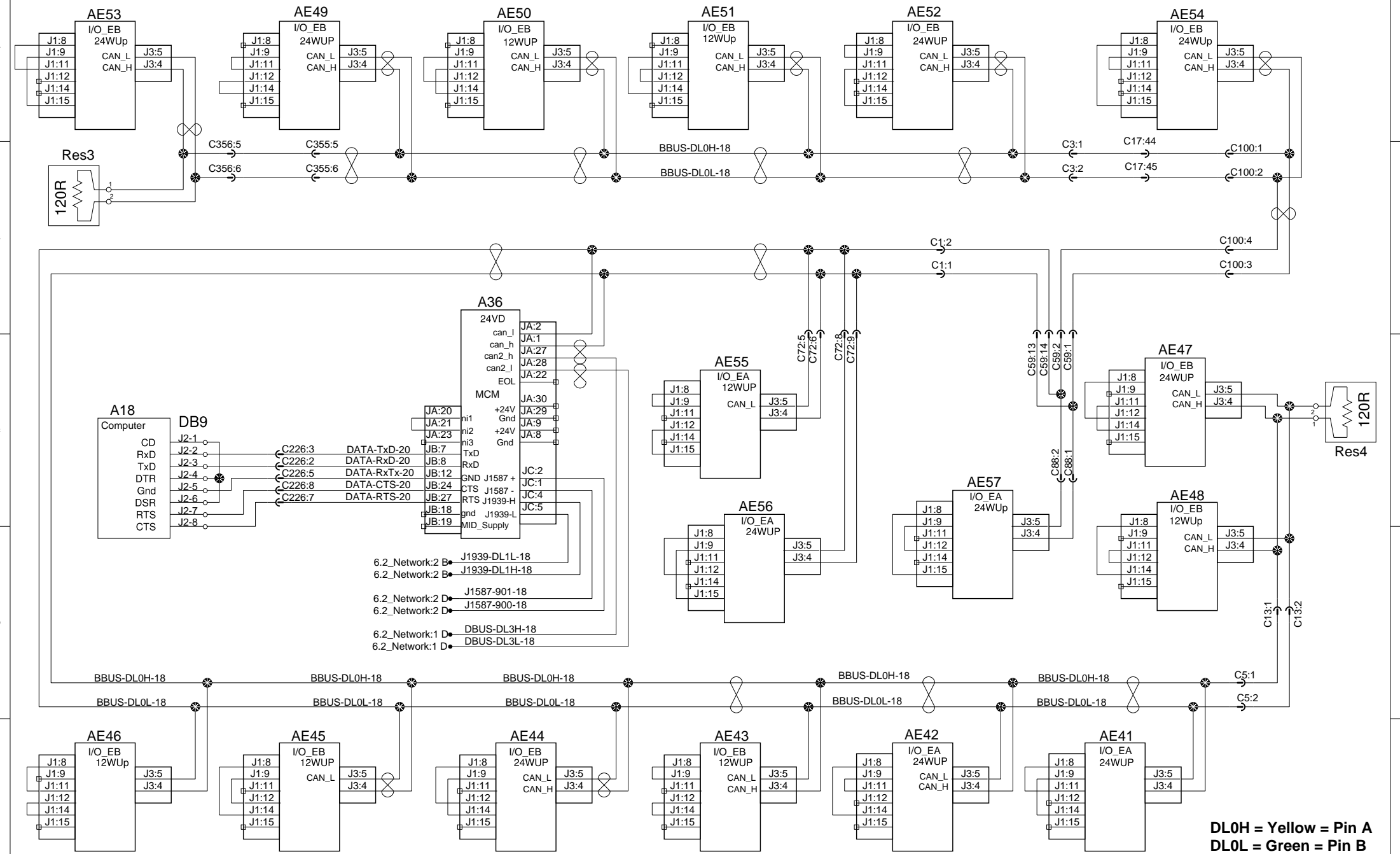
Power distribution rear junction box



Parcel Rack Power Distribution

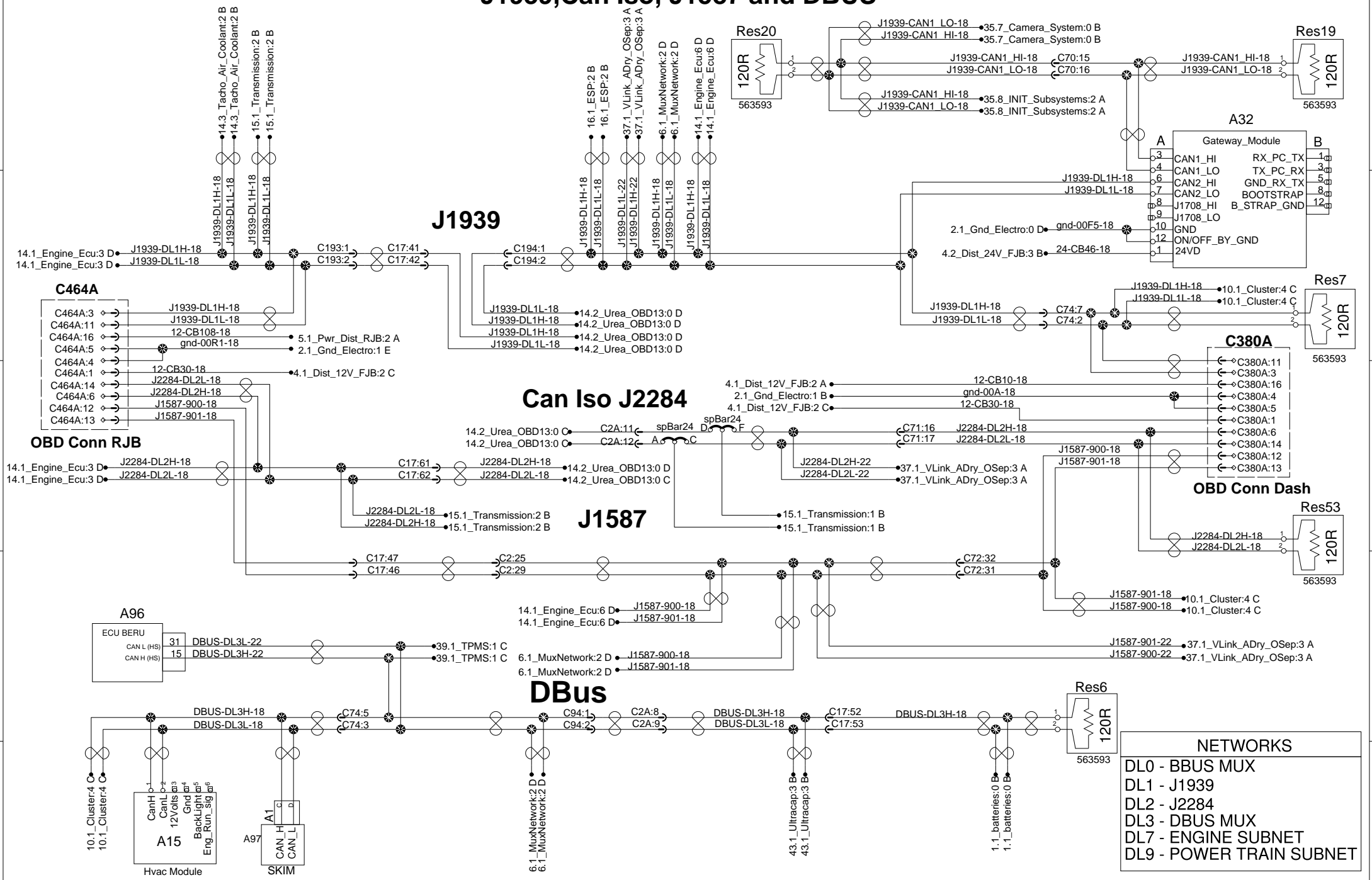


Multiplex Can, J1587 Network and Addressing



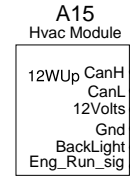
DL0H = Yellow = Pin A
DL0L = Green = Pin B

J1939, Can Iso, J1587 and DBUS

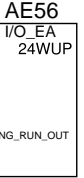
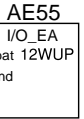


Front junction box

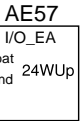
Multiplex power supply distribution



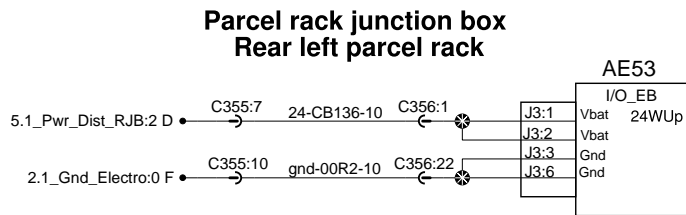
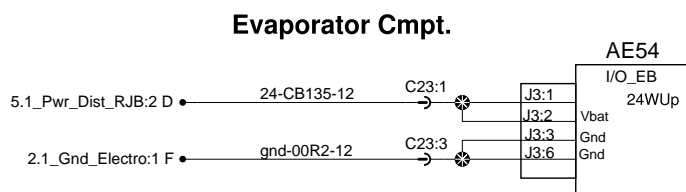
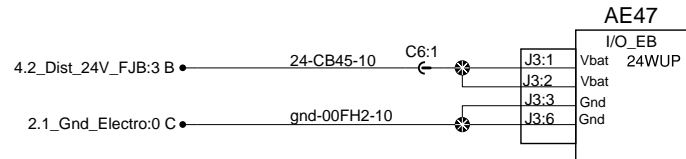
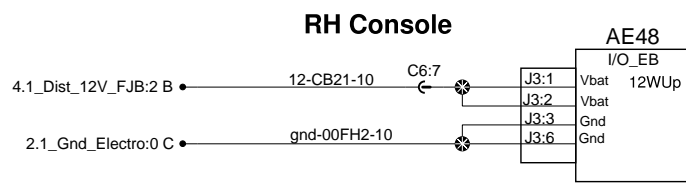
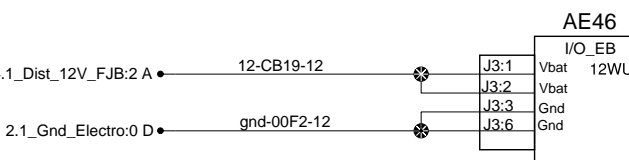
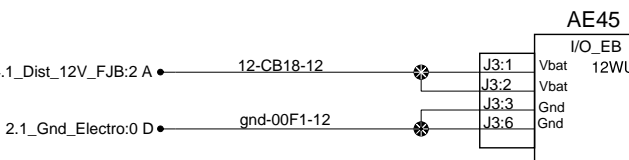
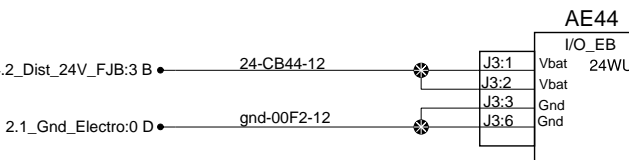
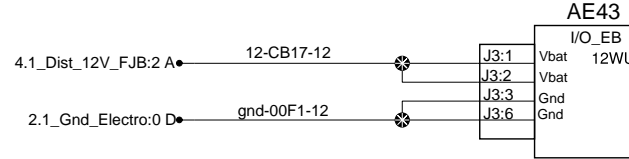
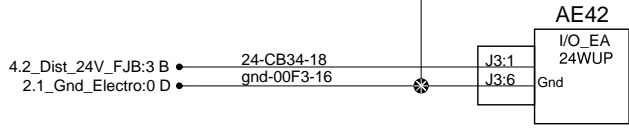
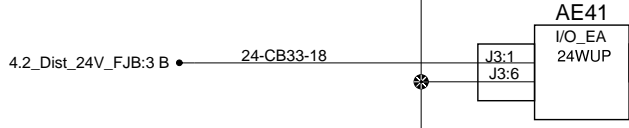
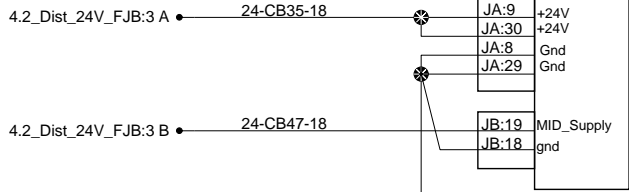
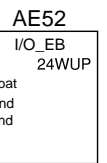
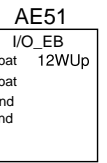
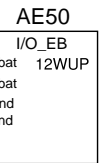
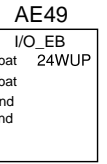
Dash



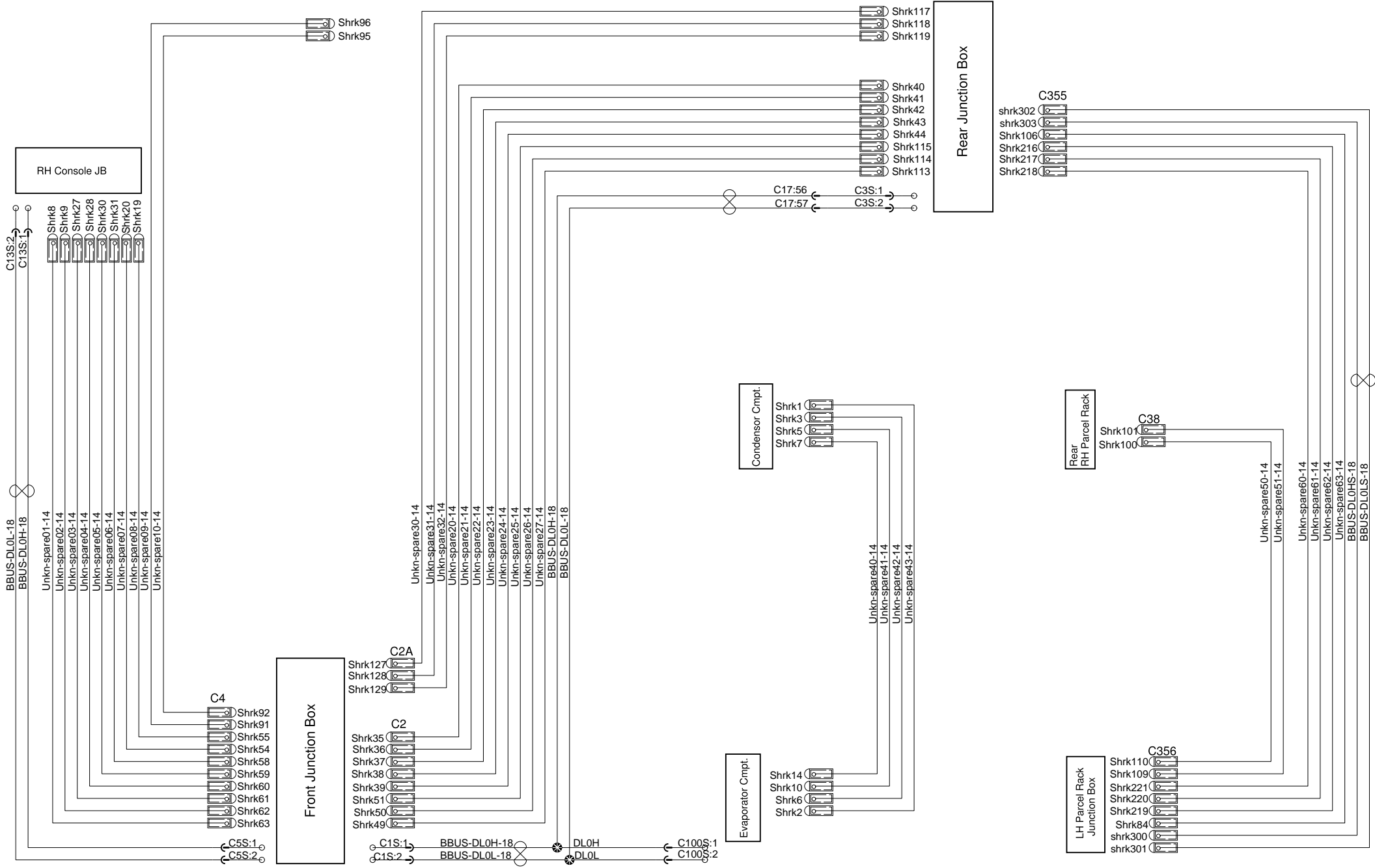
WCL Cmpt.



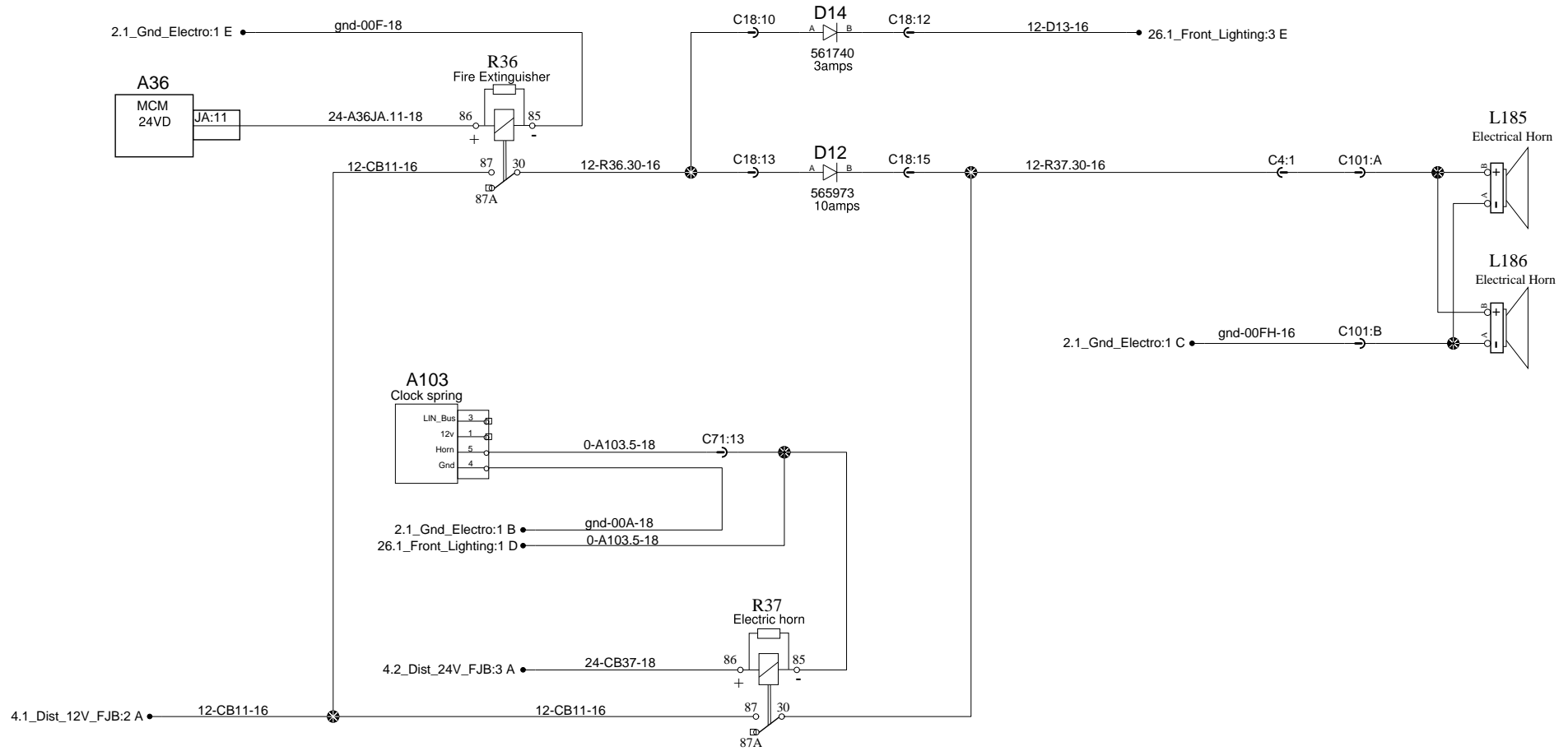
Rear junction box



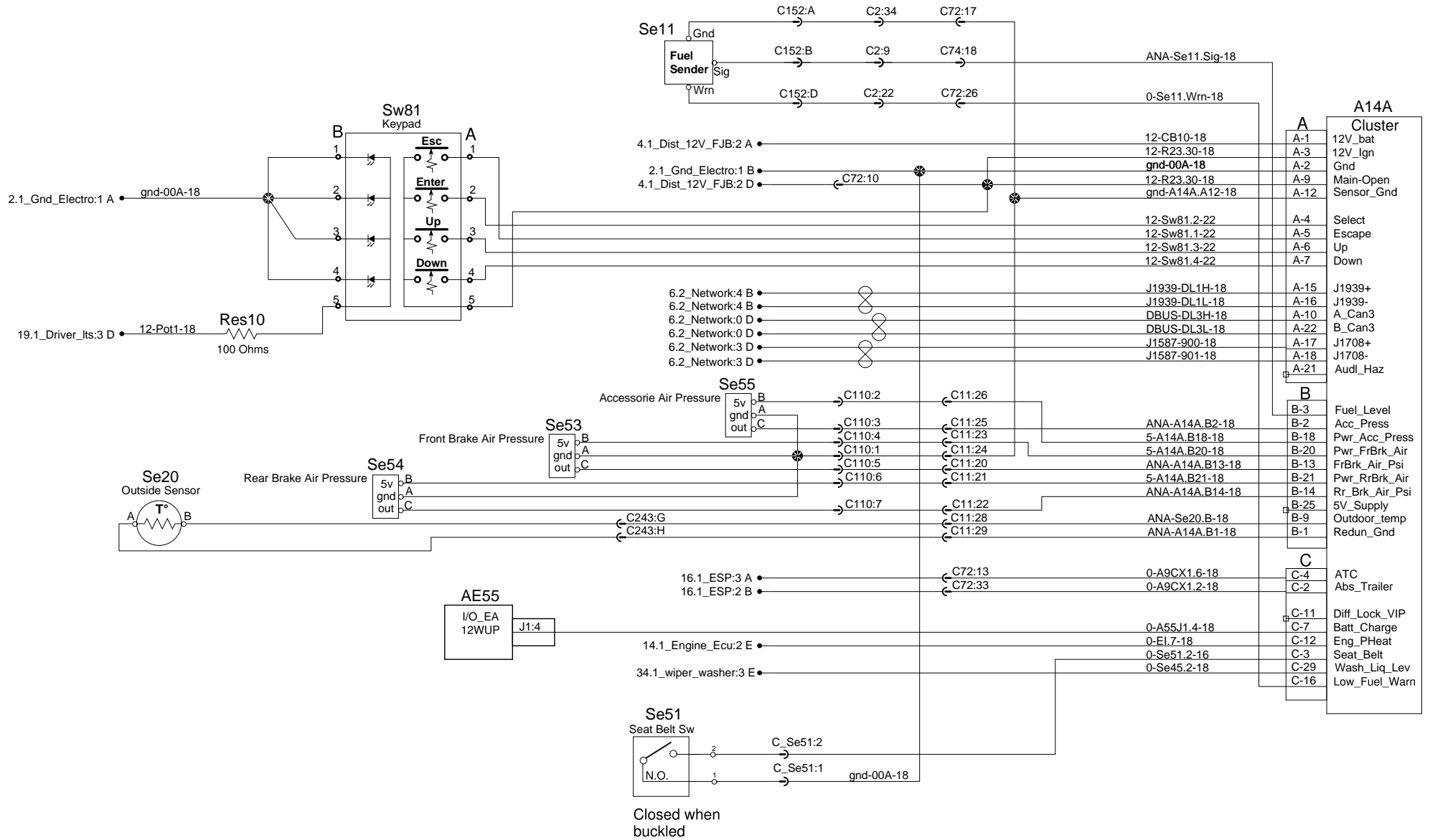
Spare Wires



Horn



Cluster



0

1

2

3

4

A

A

B

B

C

C

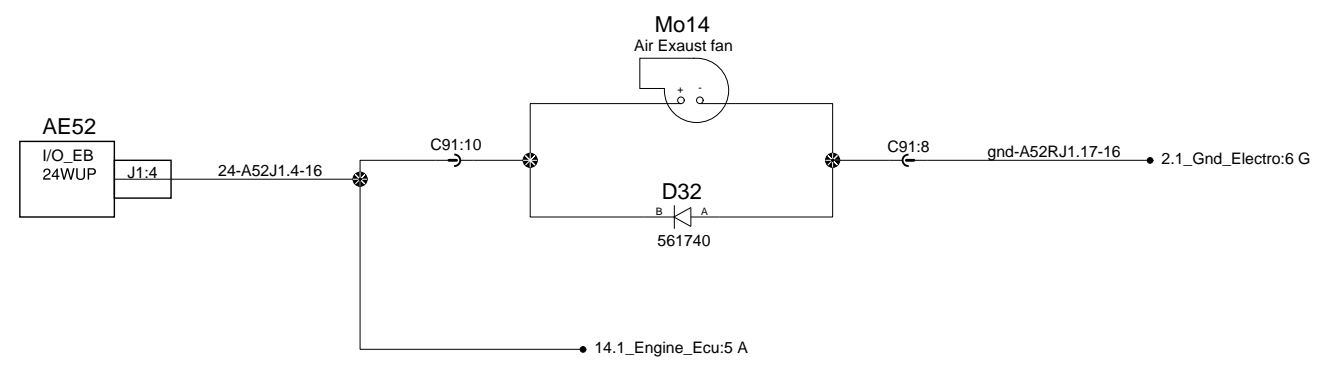
D

D

E

E

Air Exsust



0

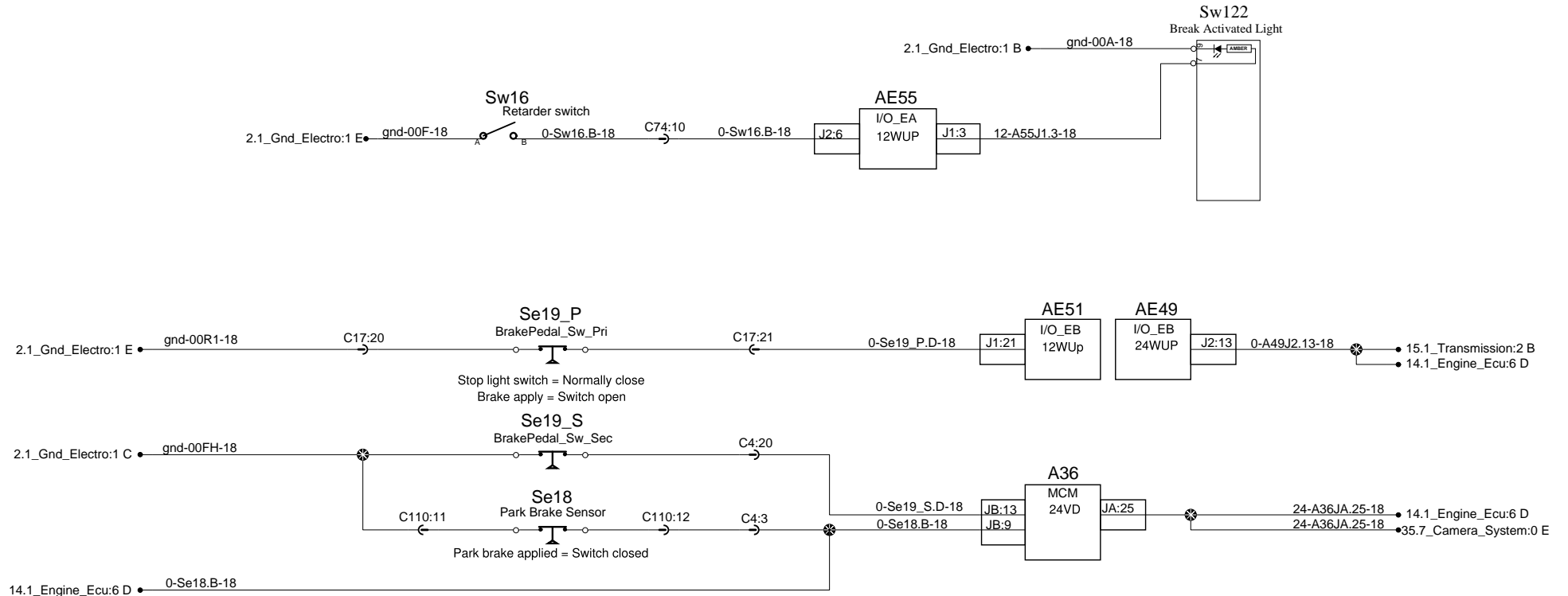
1

2

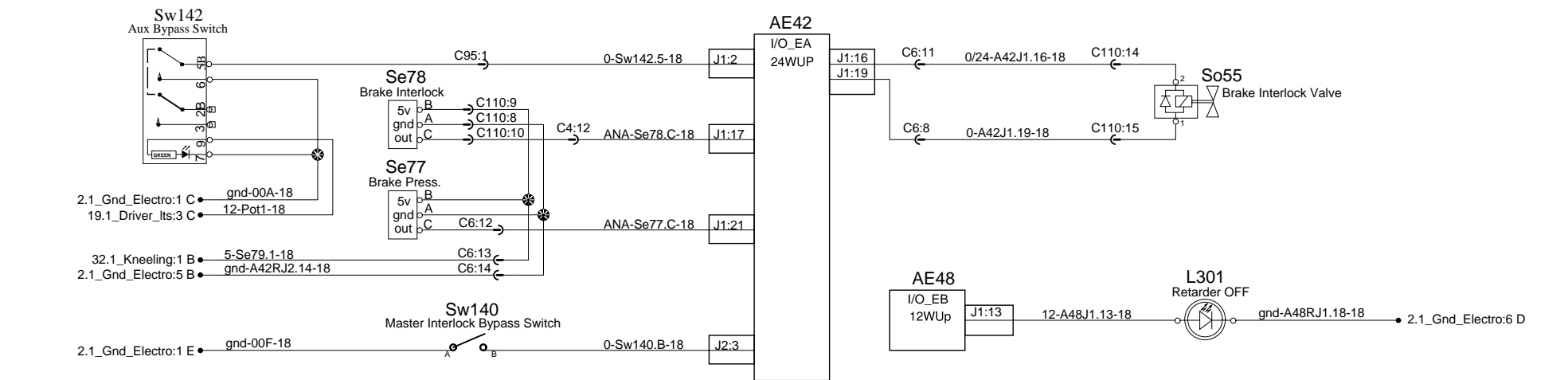
3

4

Brake, Brake interlock and Retarder

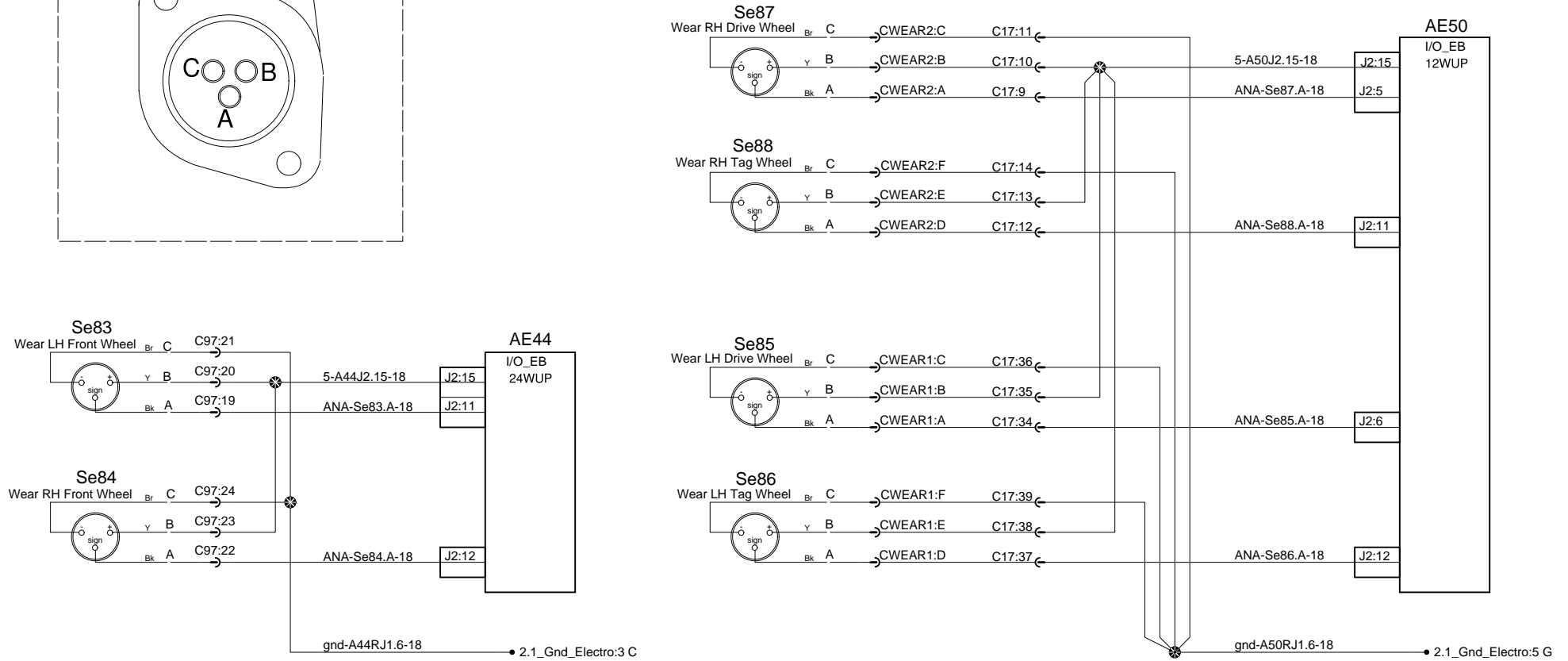
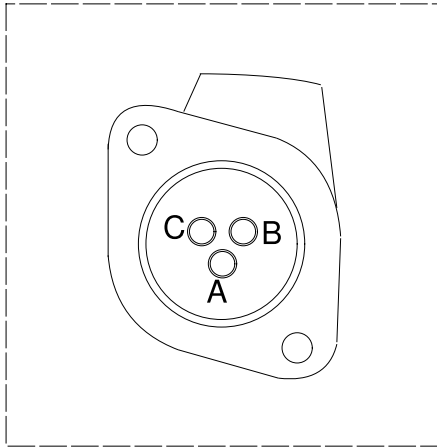


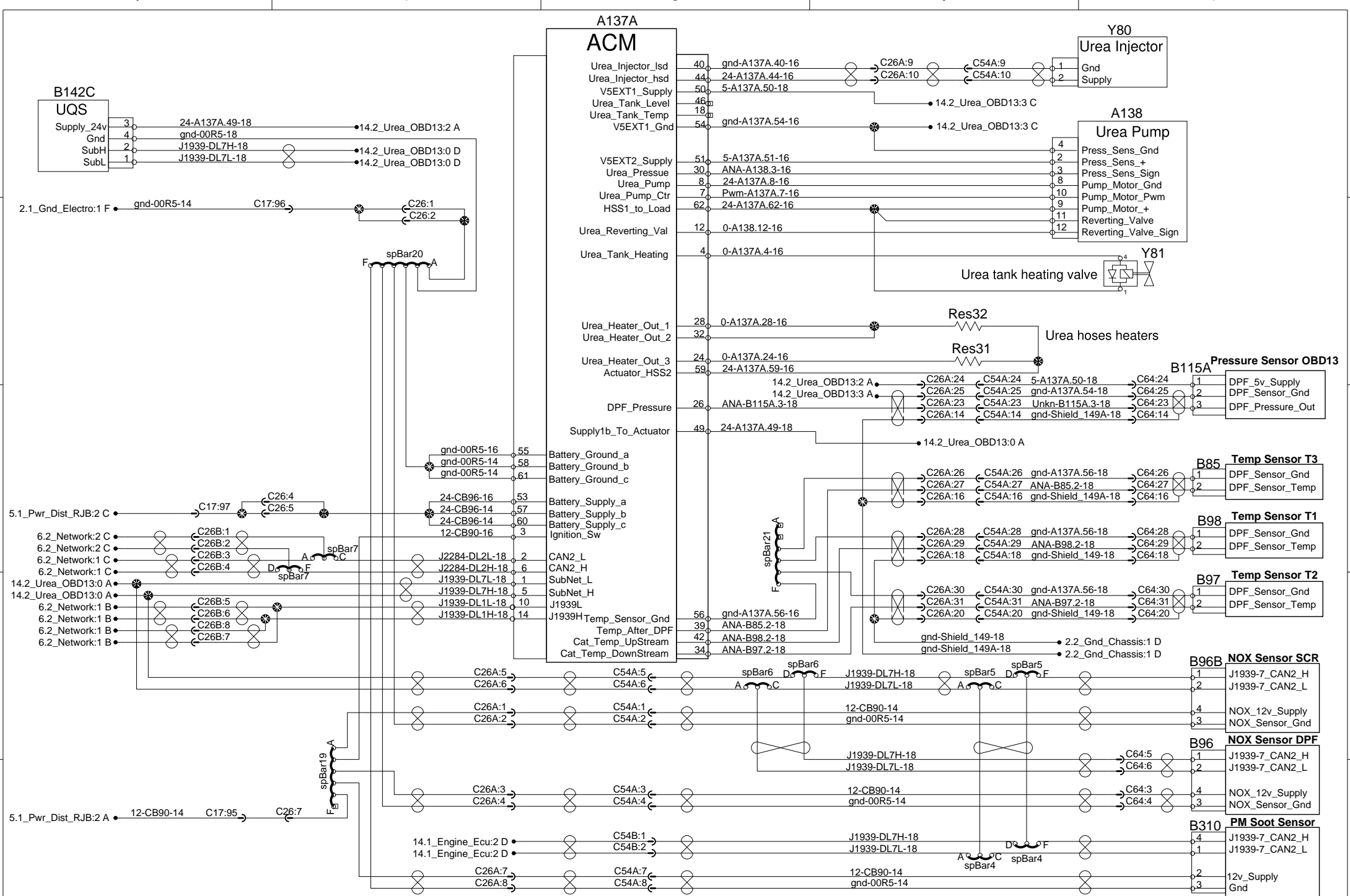
Brake interlock



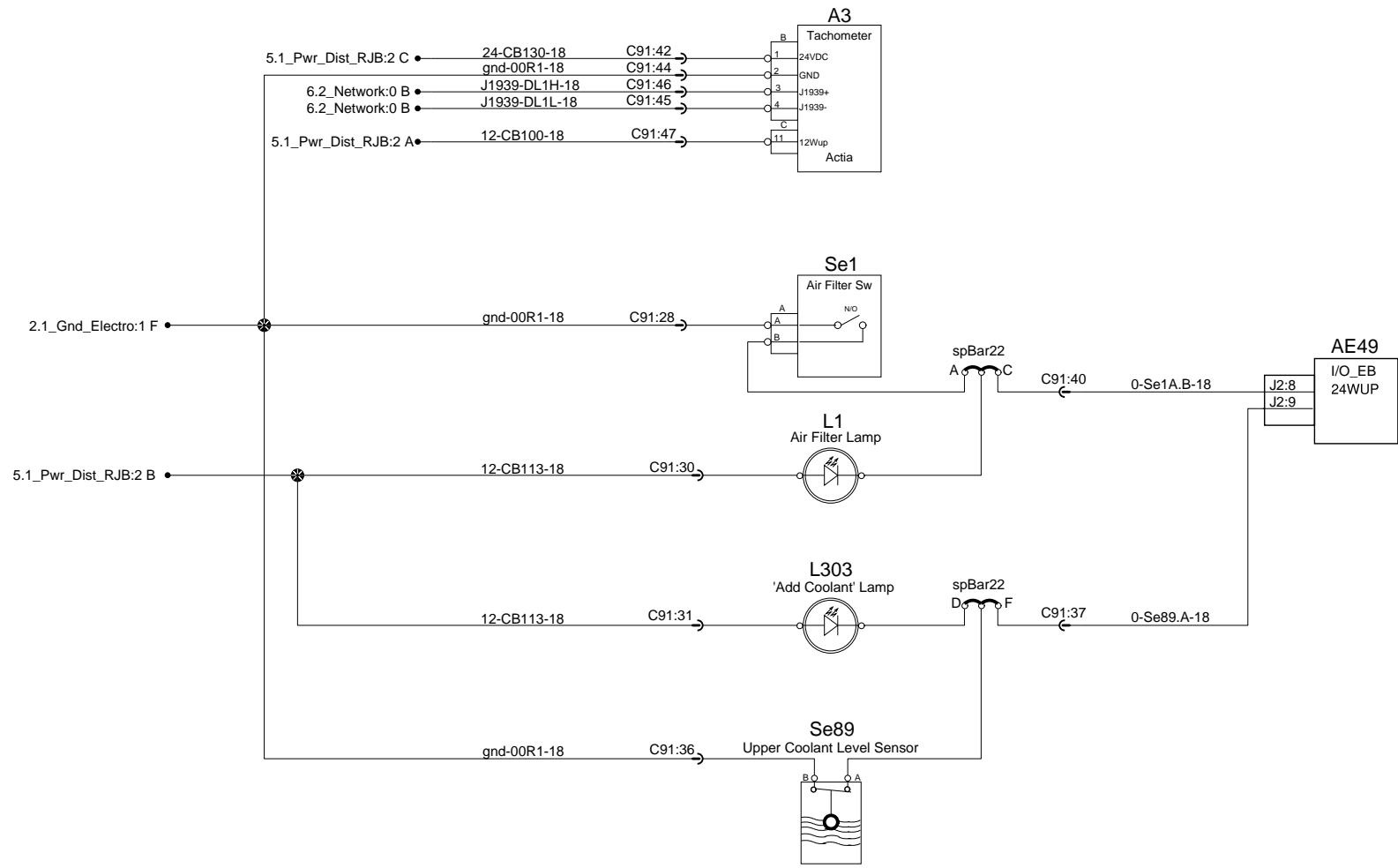
Brake wear sensors

Wear sensor detail

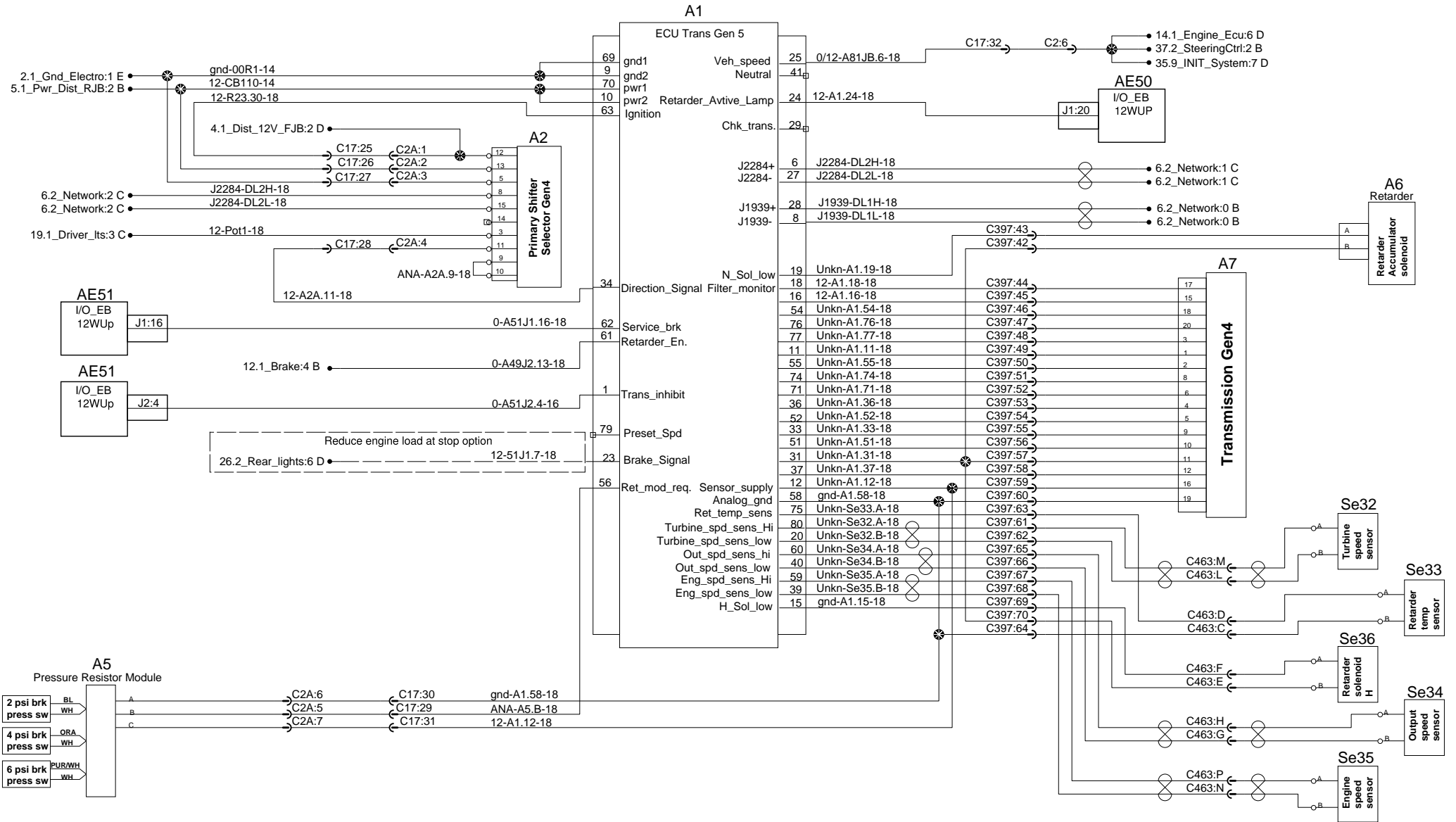




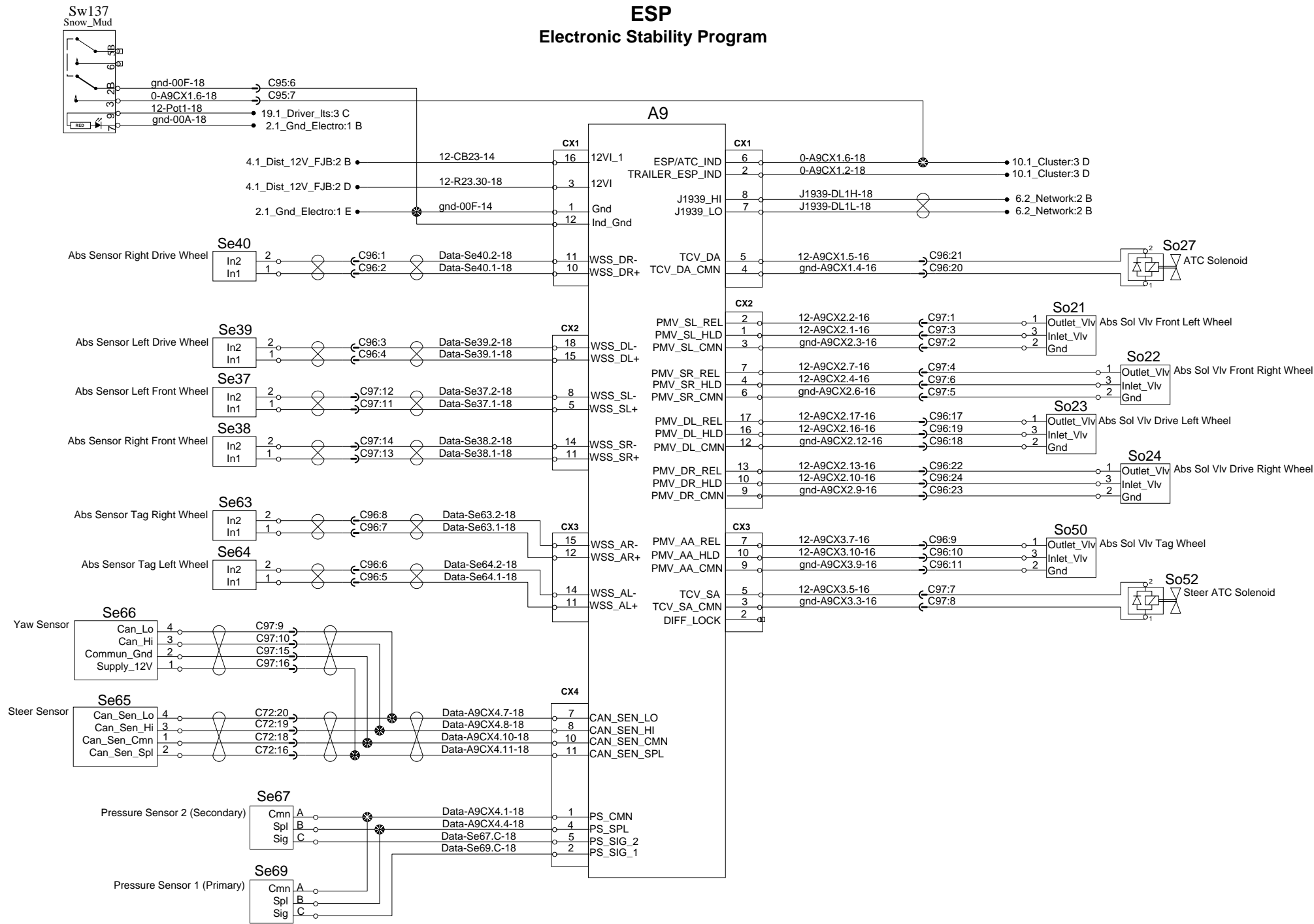
Rear tachometer - Air filter LED - Coolant level LED - Pro_Fuel



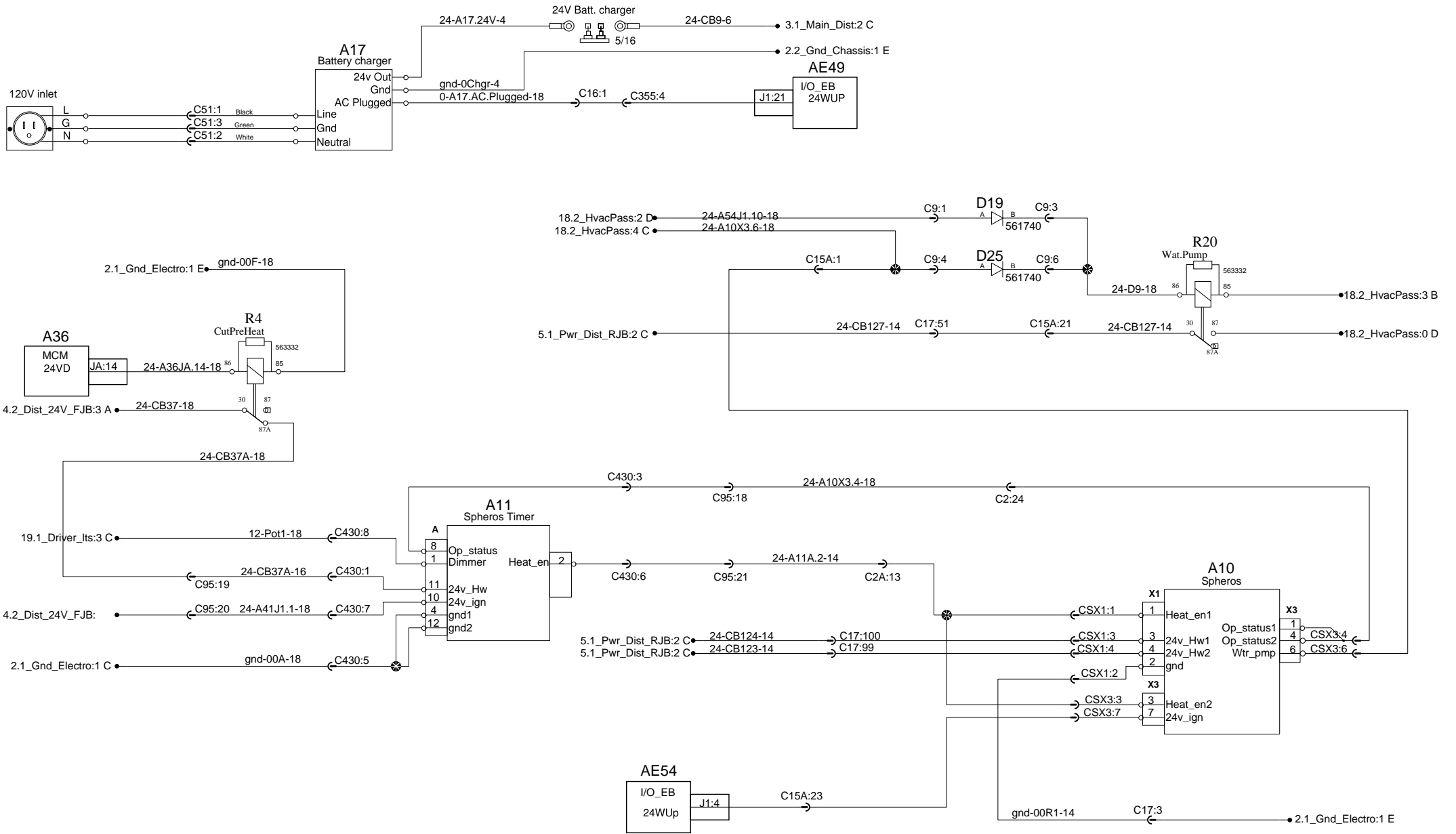
Transmission Alisson Gen 5



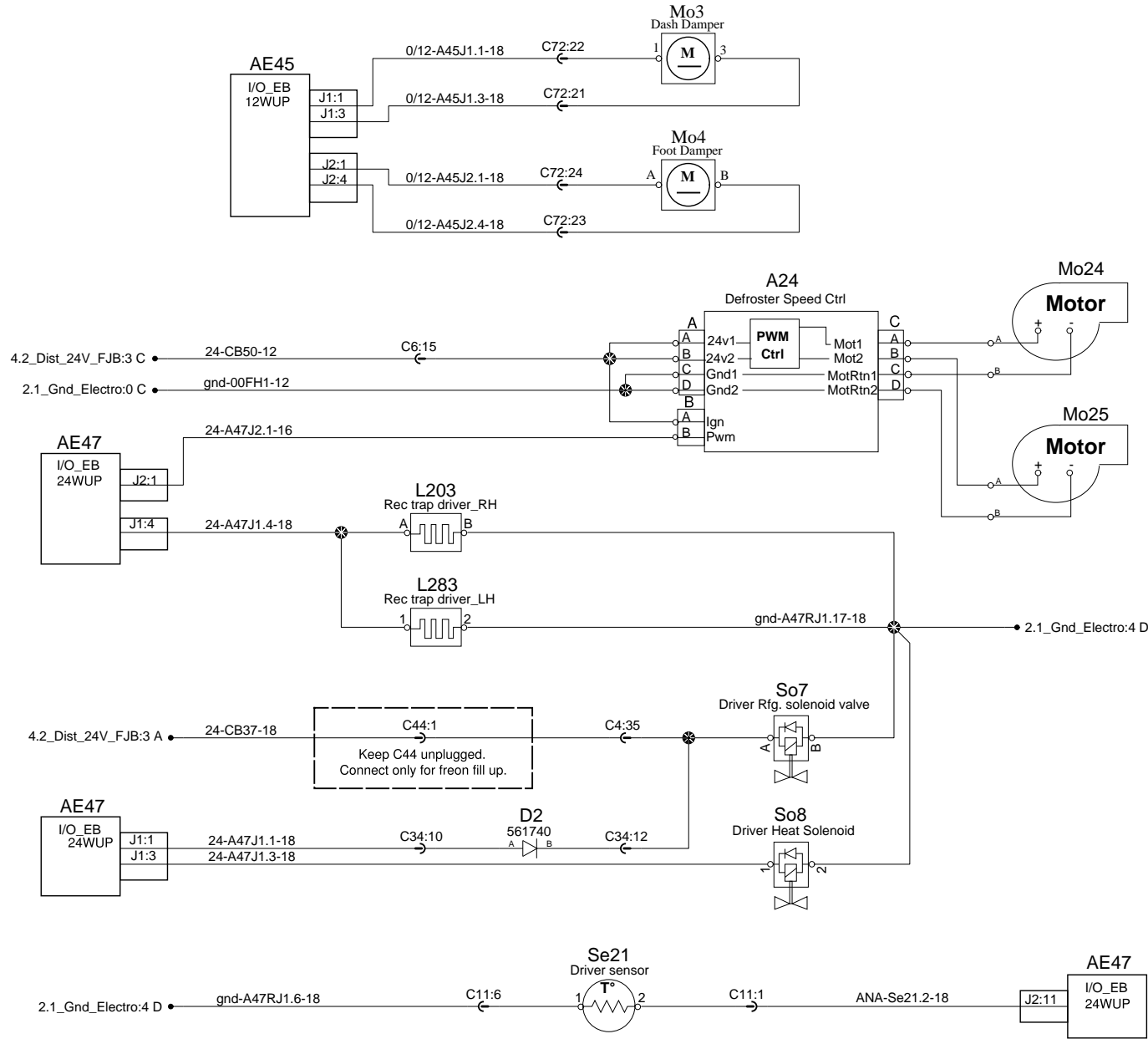
ESP Electronic Stability Program



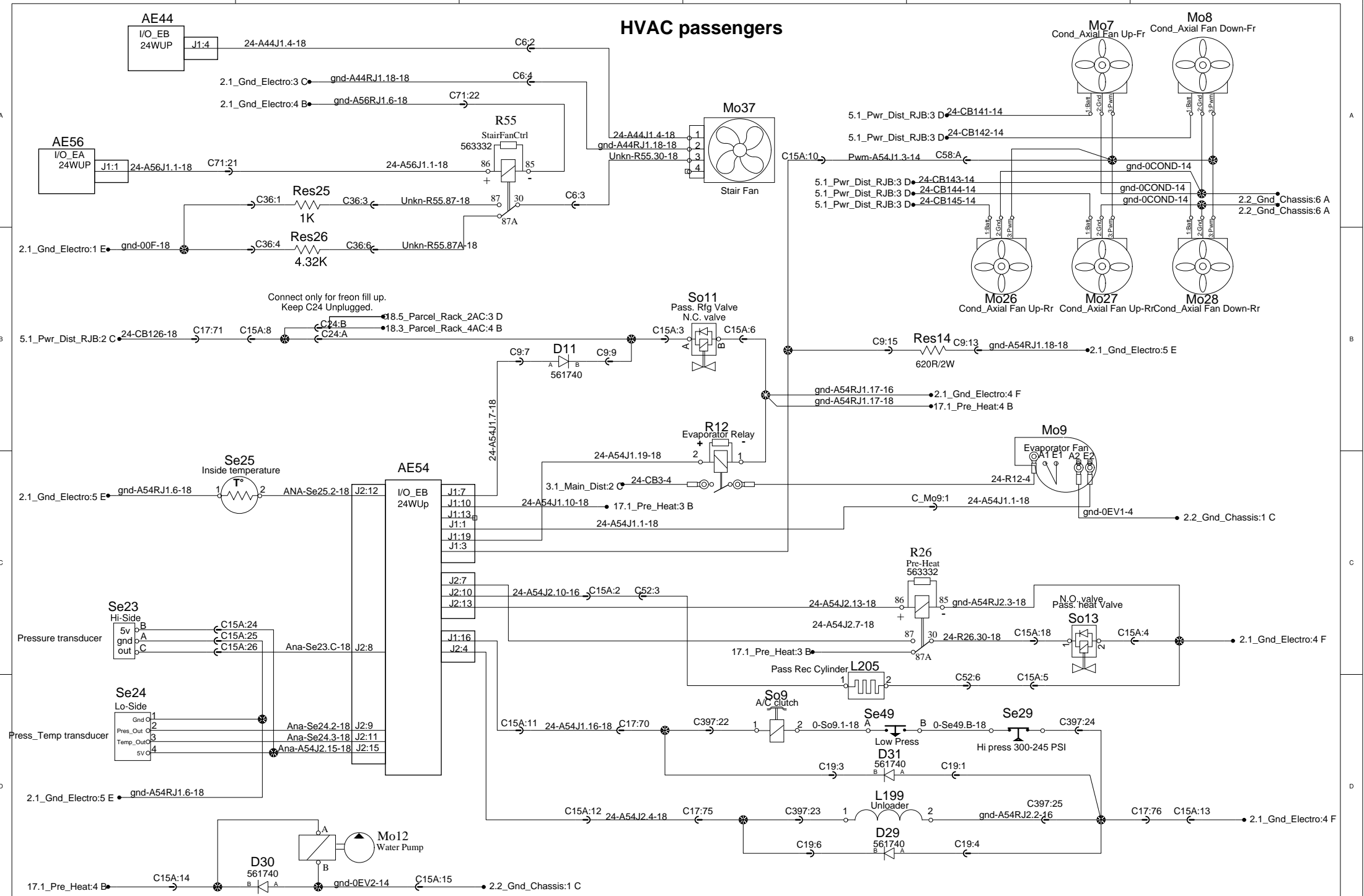
Battery charger



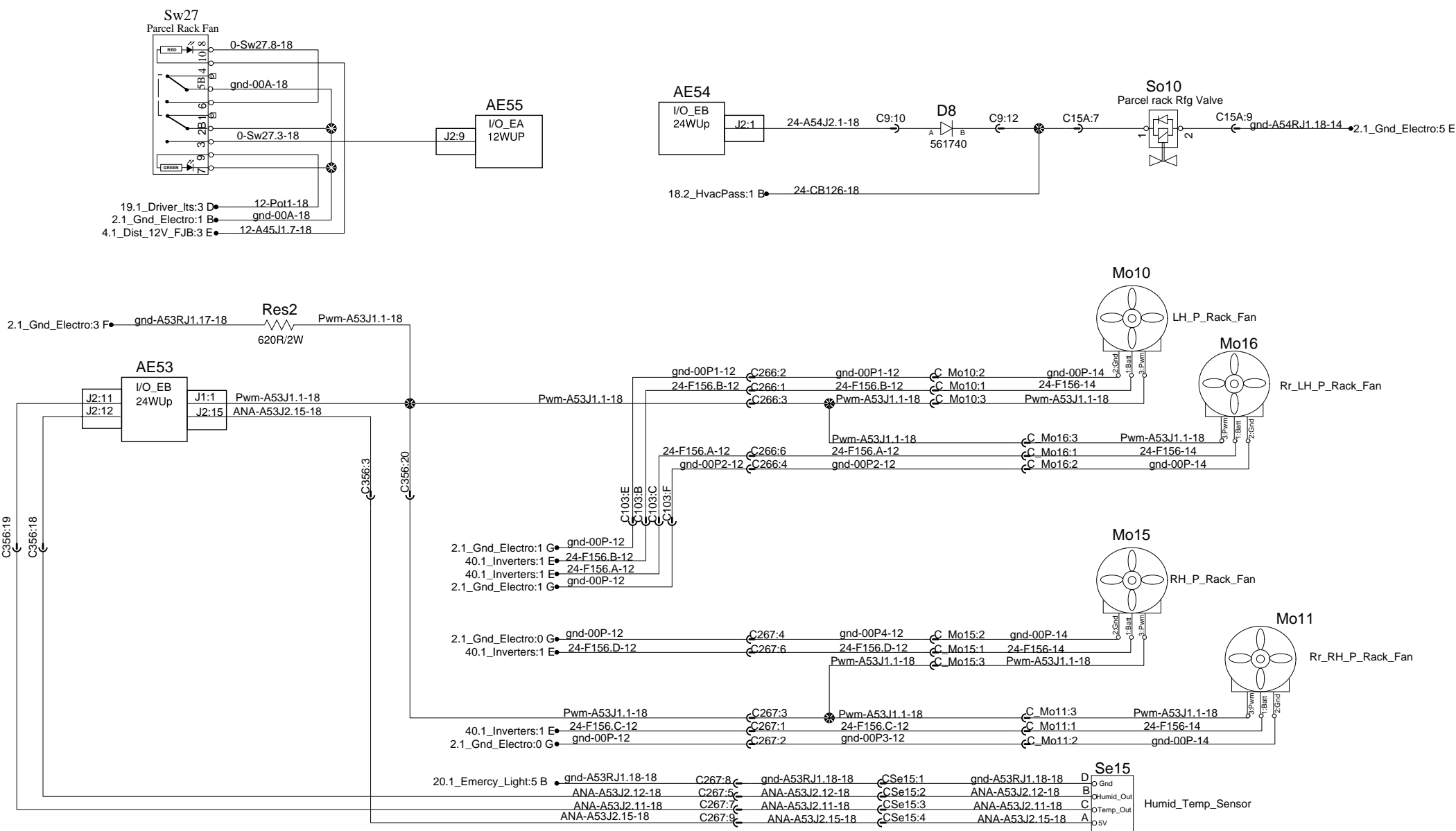
Hvac defroster



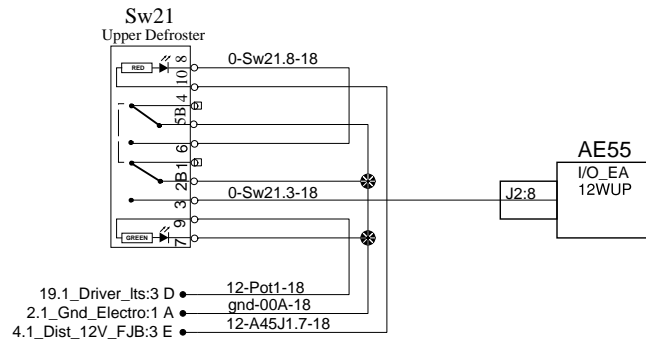
HVAC passengers



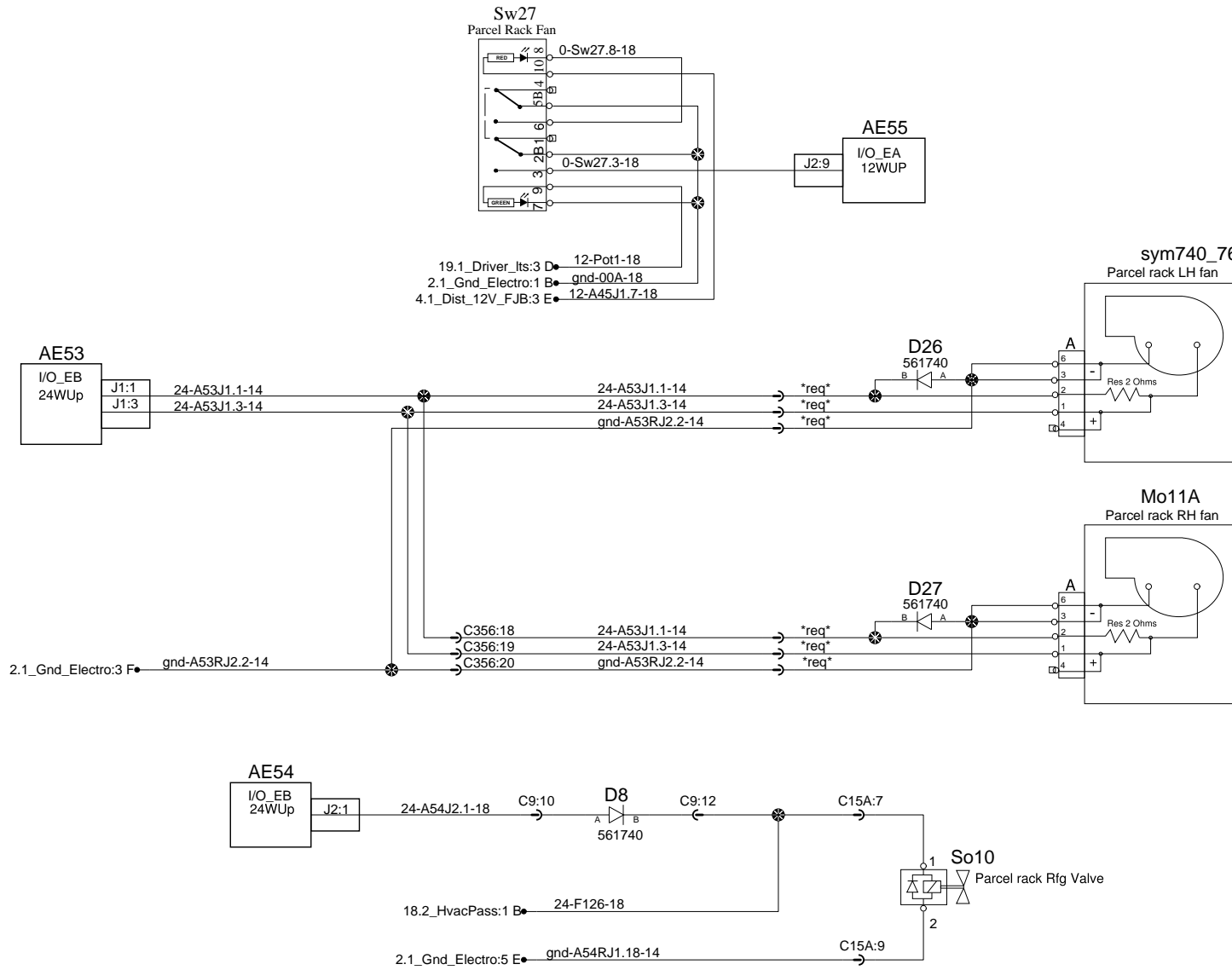
Parcel rack 4 A/C system



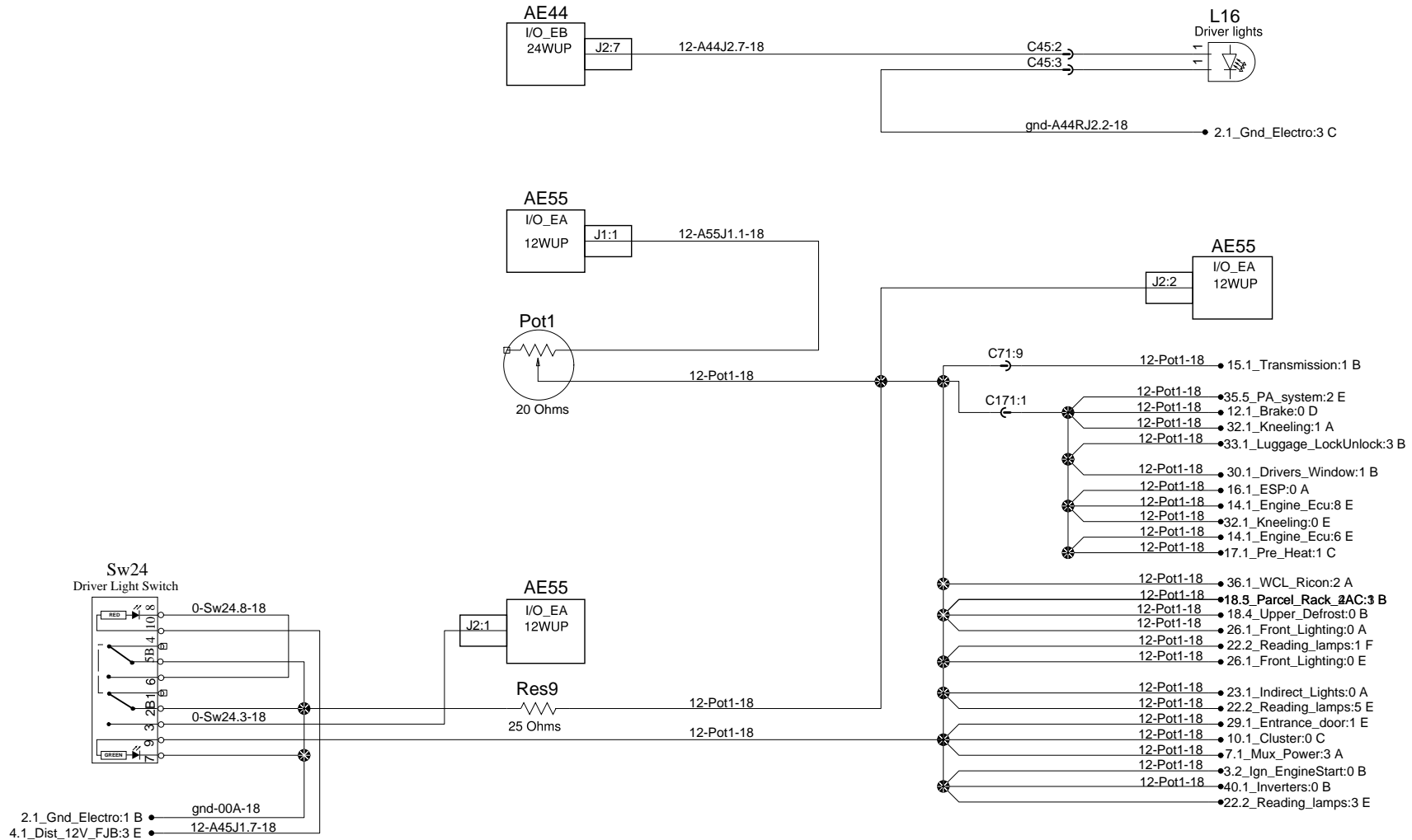
Upper defrost option

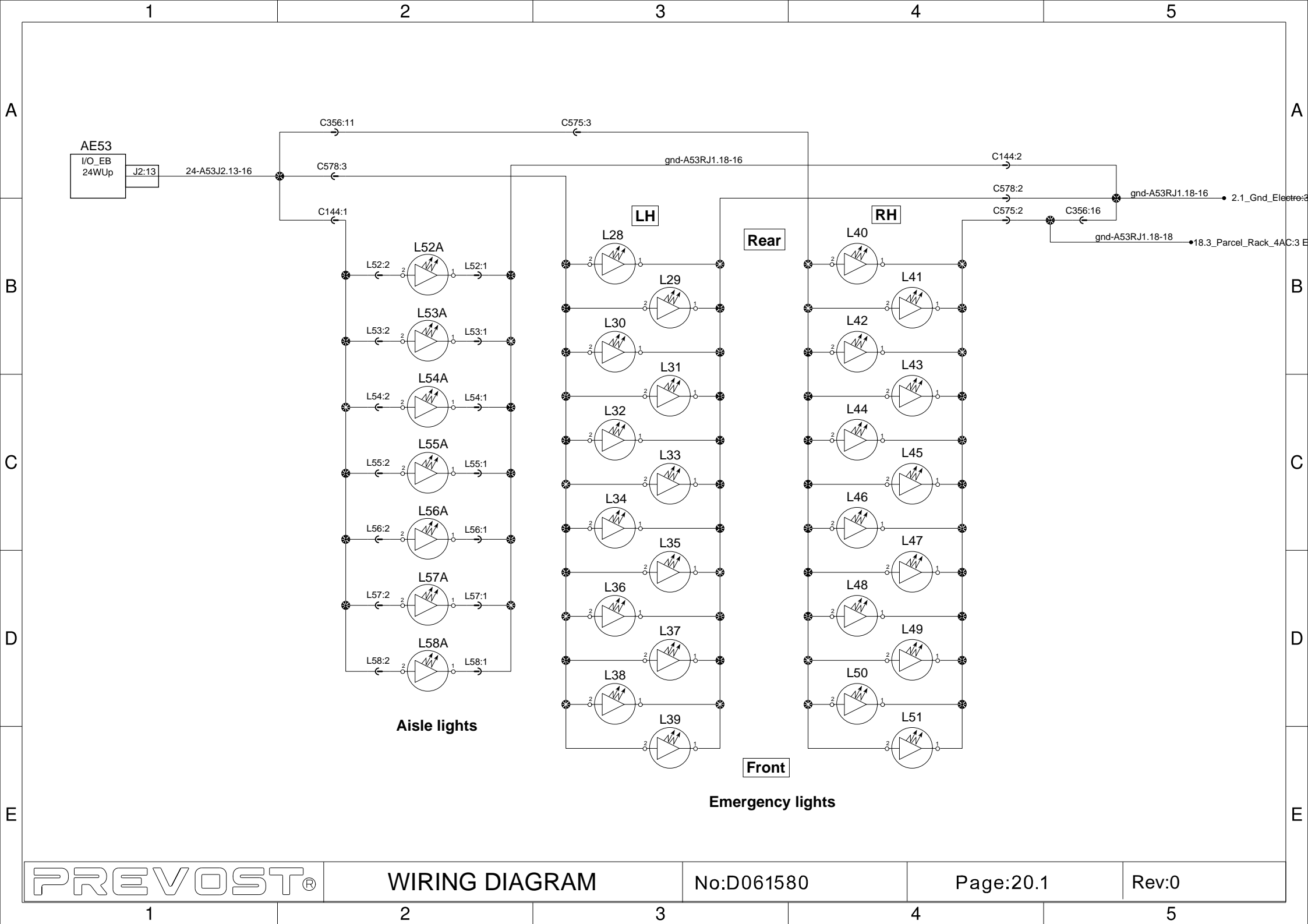


Parcel rack A/C system

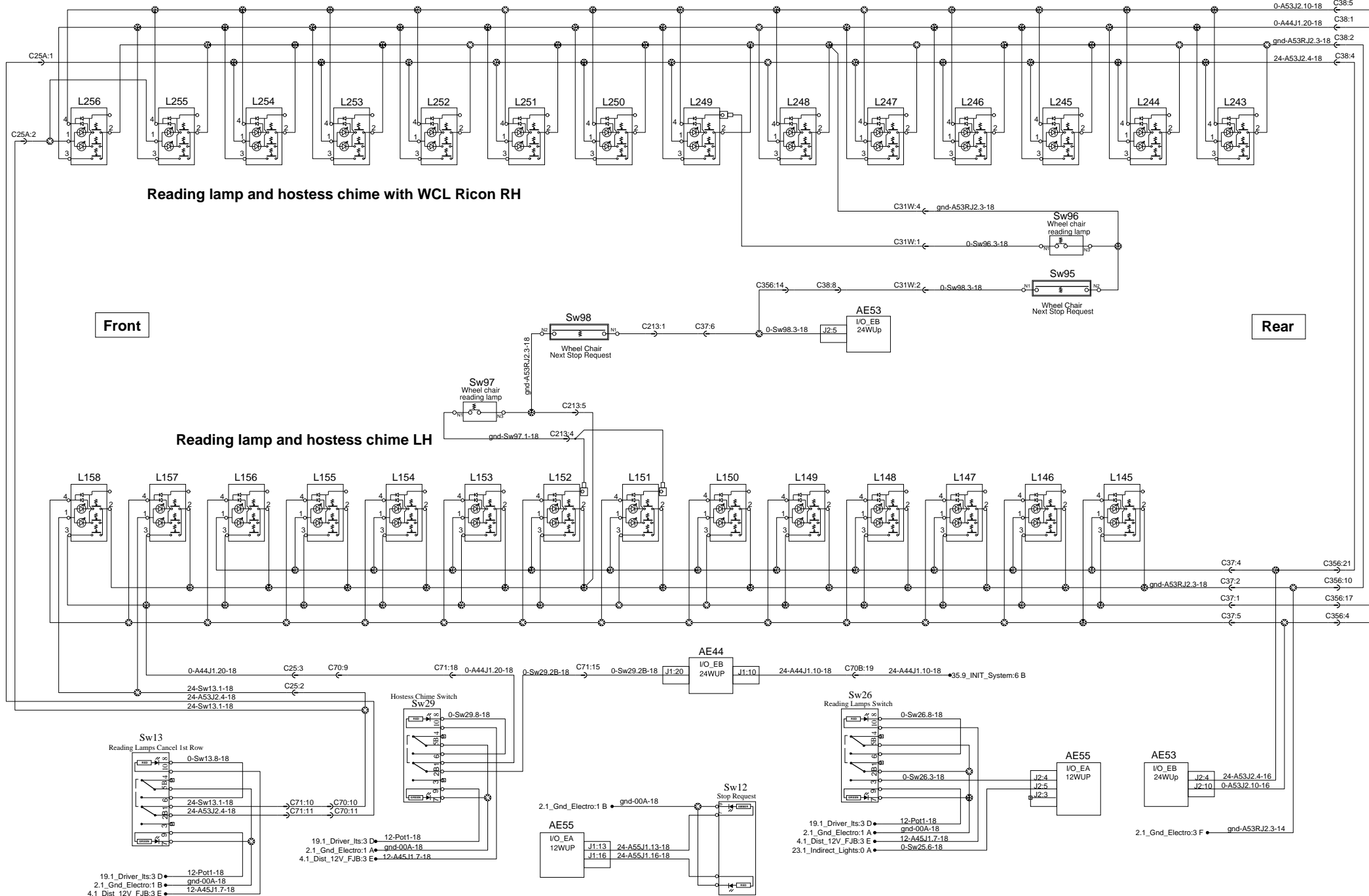


Driver's lights



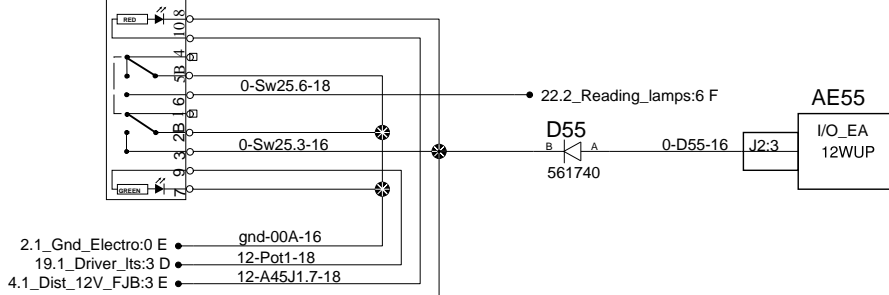


Reading Lamp and Next Stop Request

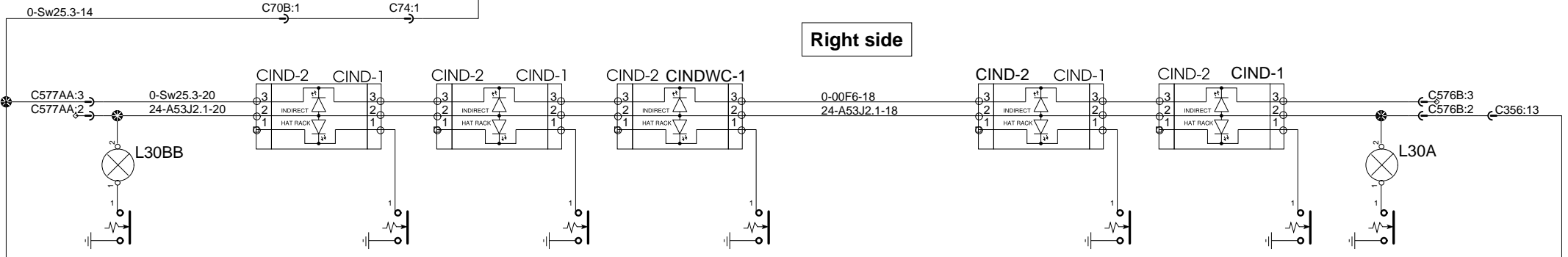


Indirect lighting

Sw25
Indirect and Reading Lights Switch

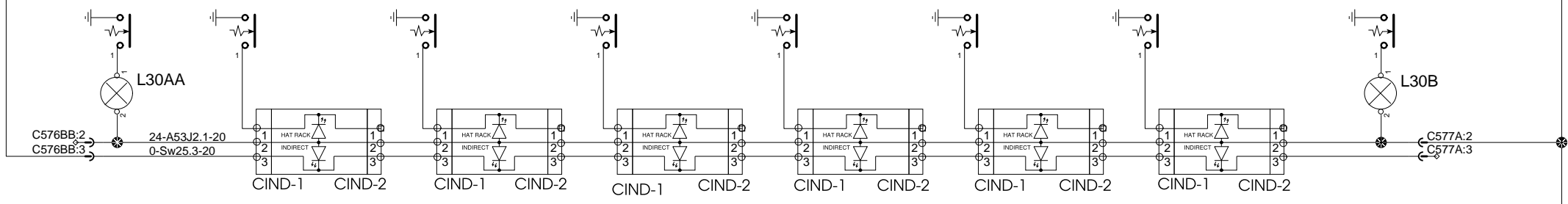


Right side

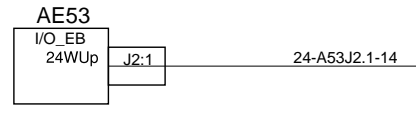


Front

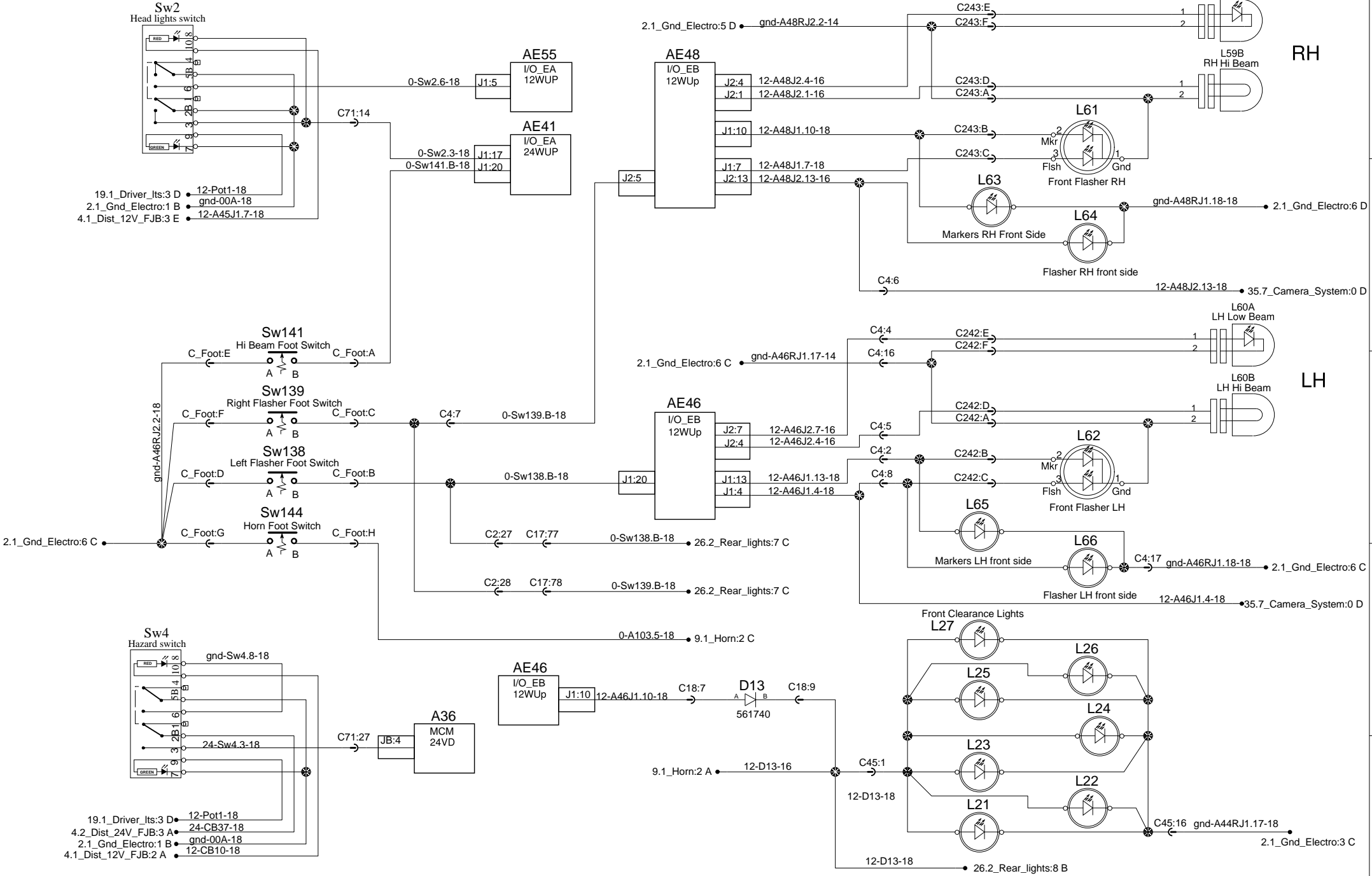
Rear



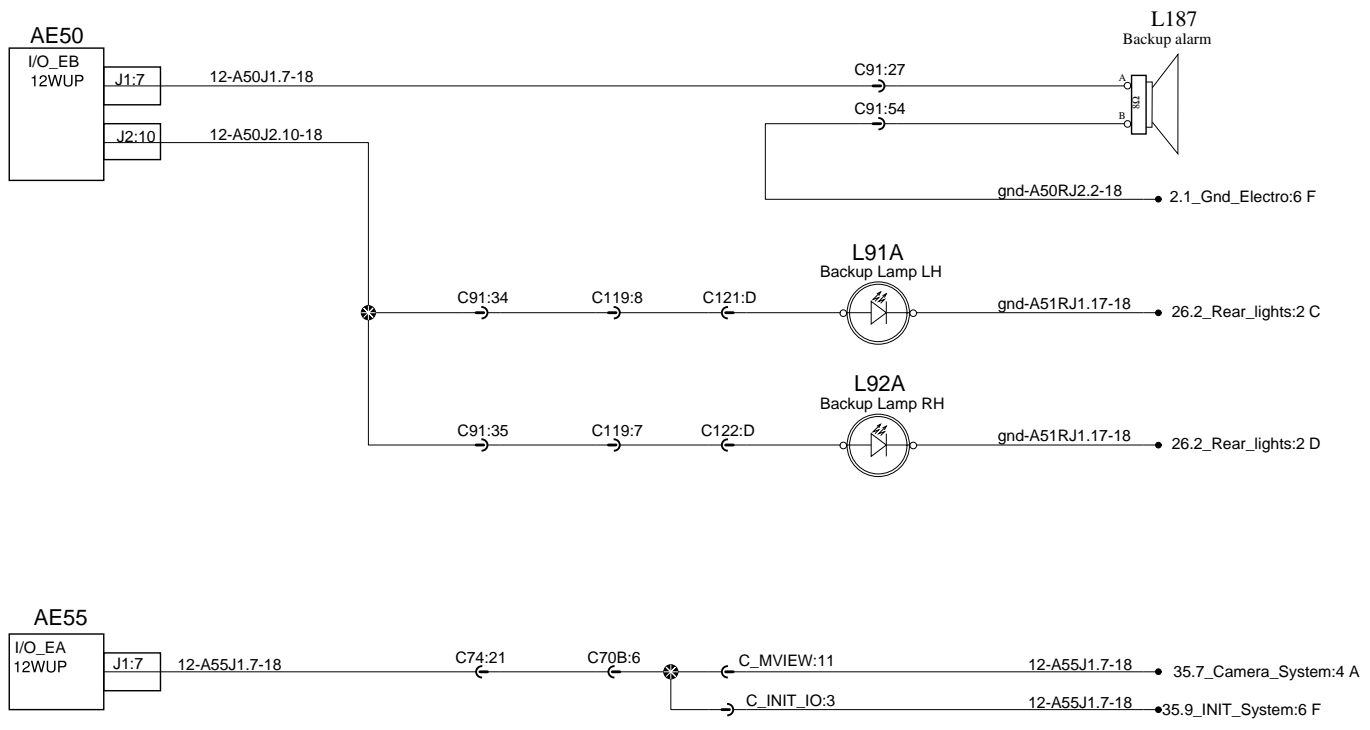
Left side



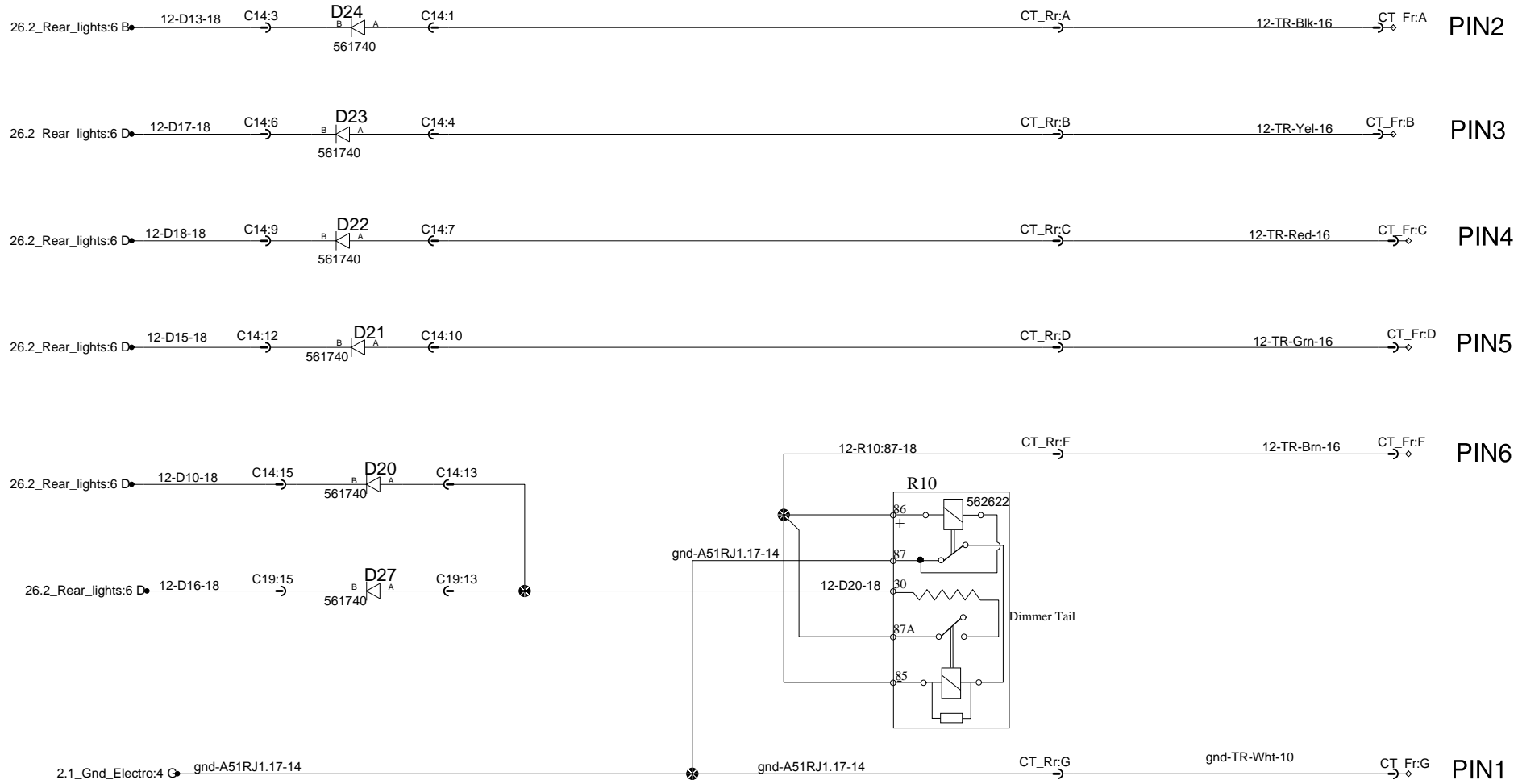
Front flashers, Markers and Head lights



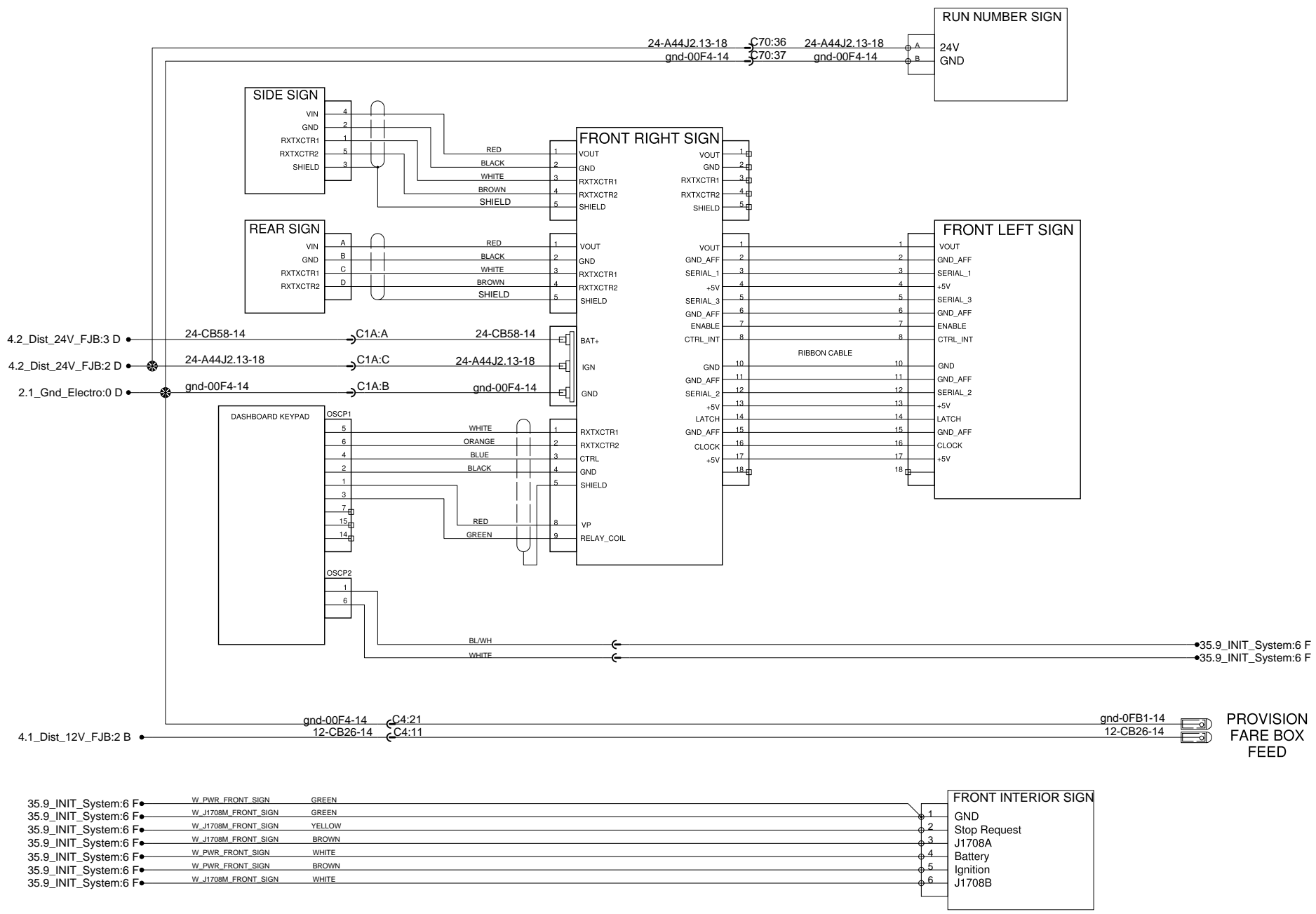
Backup warnings



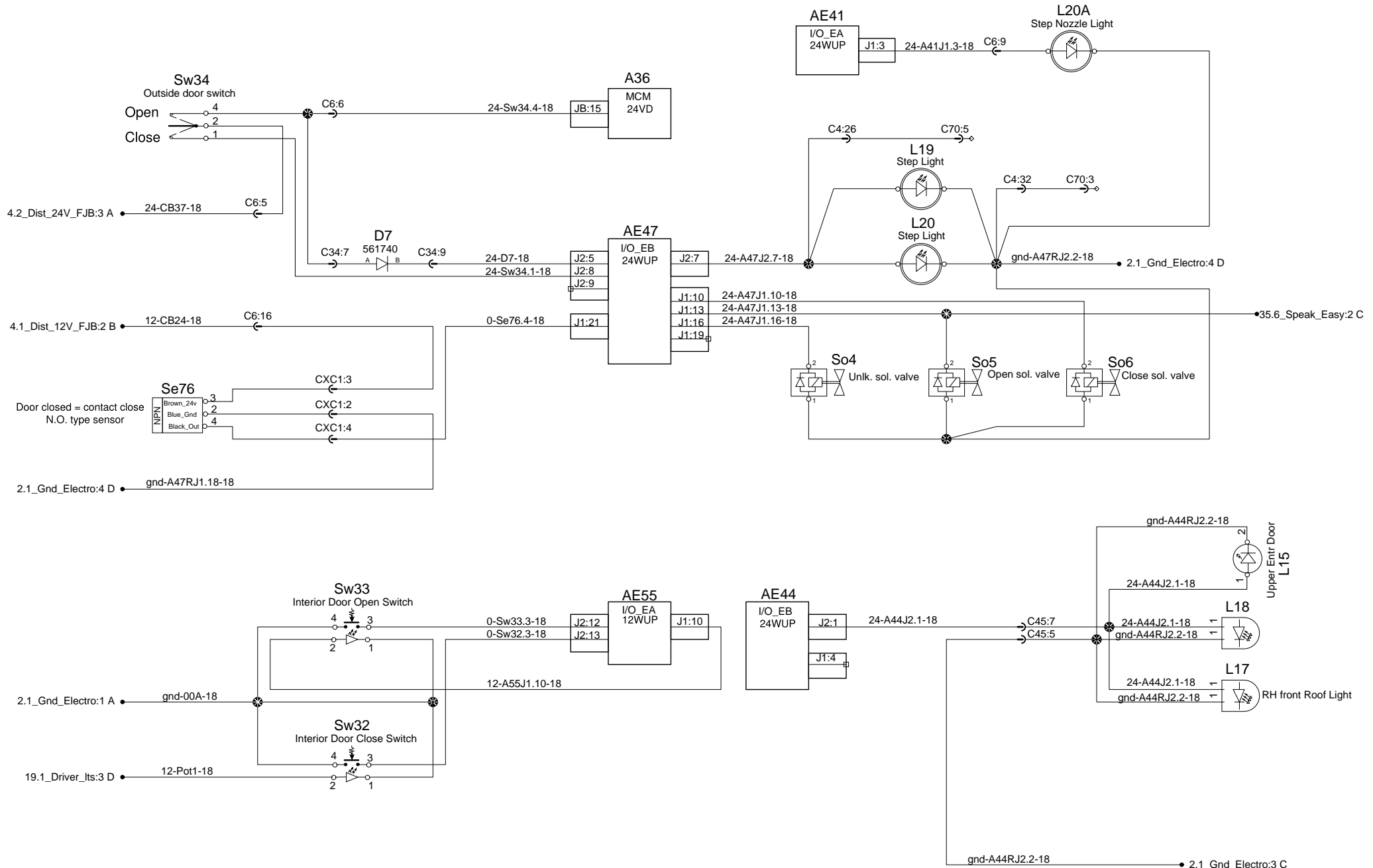
Front Trailer



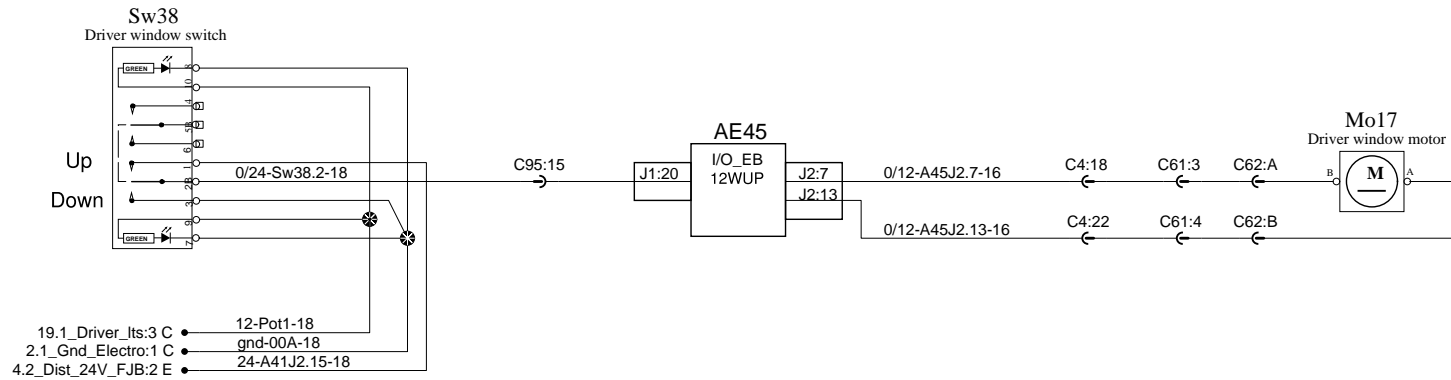
Destination Signs and Farebox



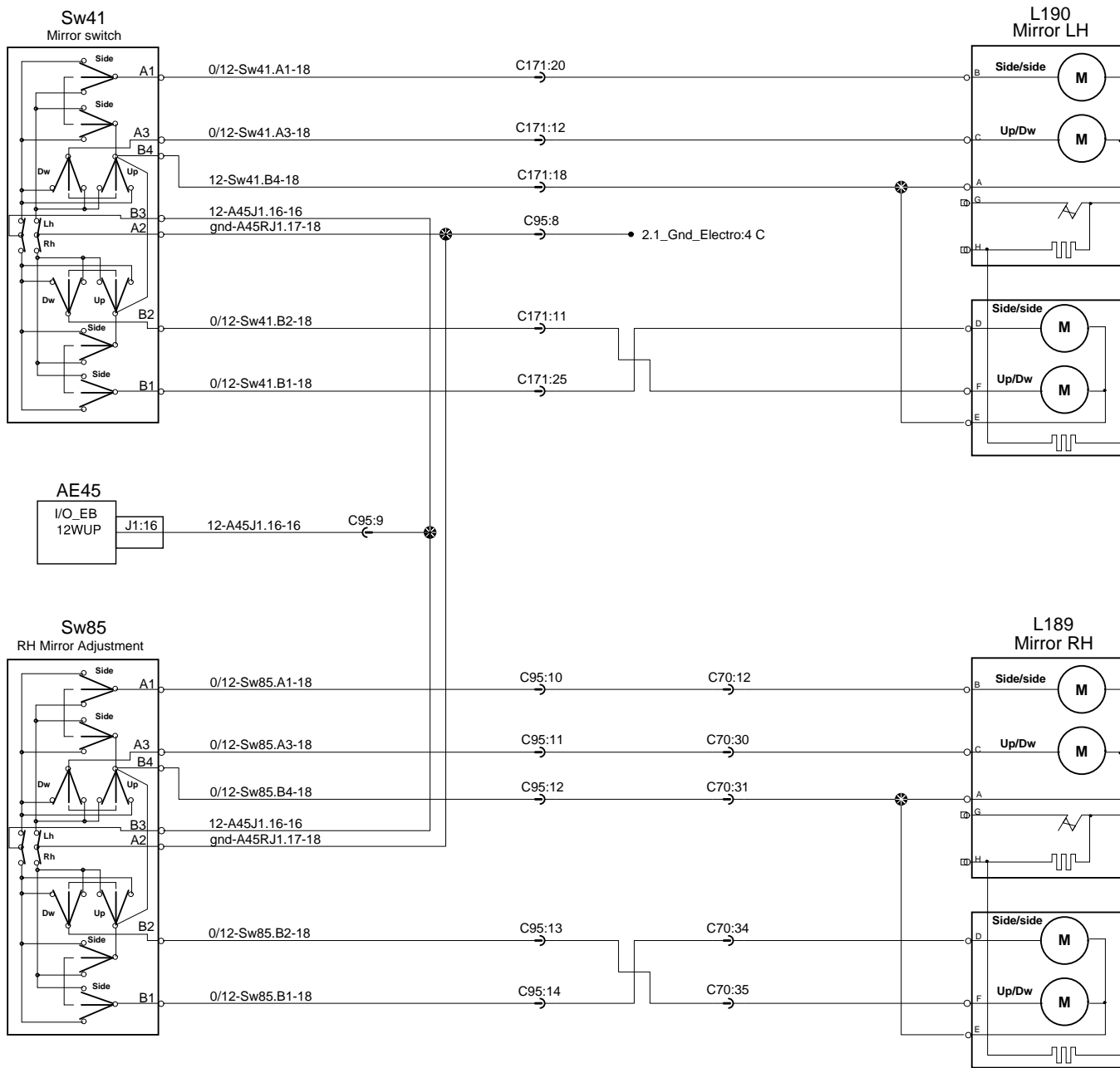
Entrance door



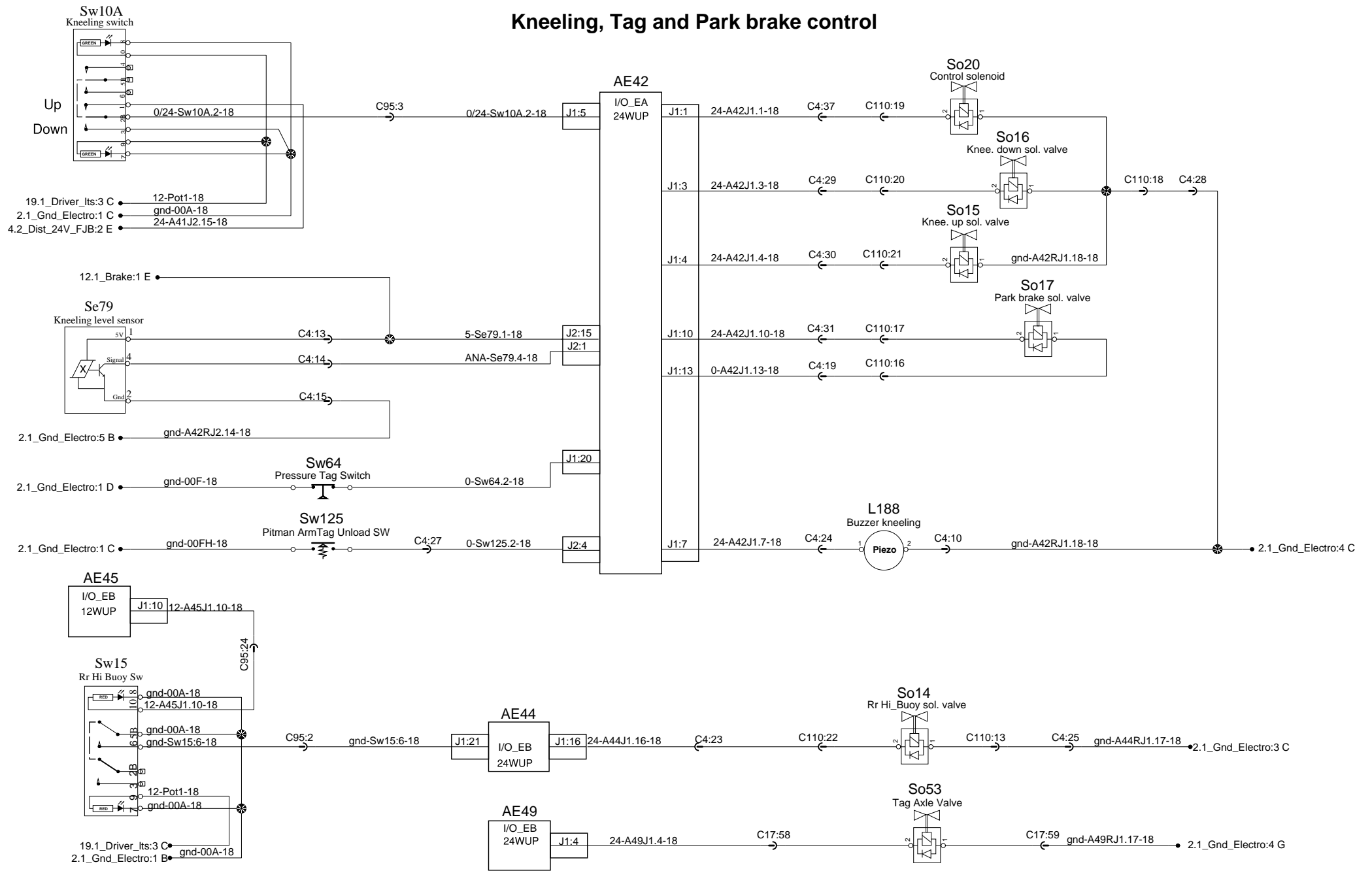
Driver window



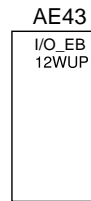
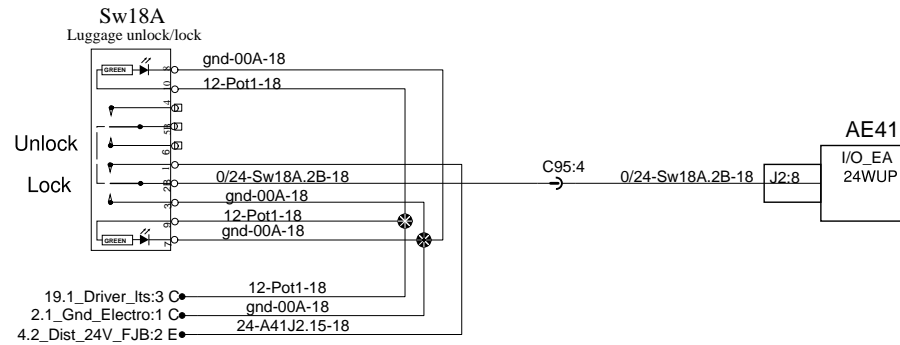
Mirrors, 2 adjustments switch and heated



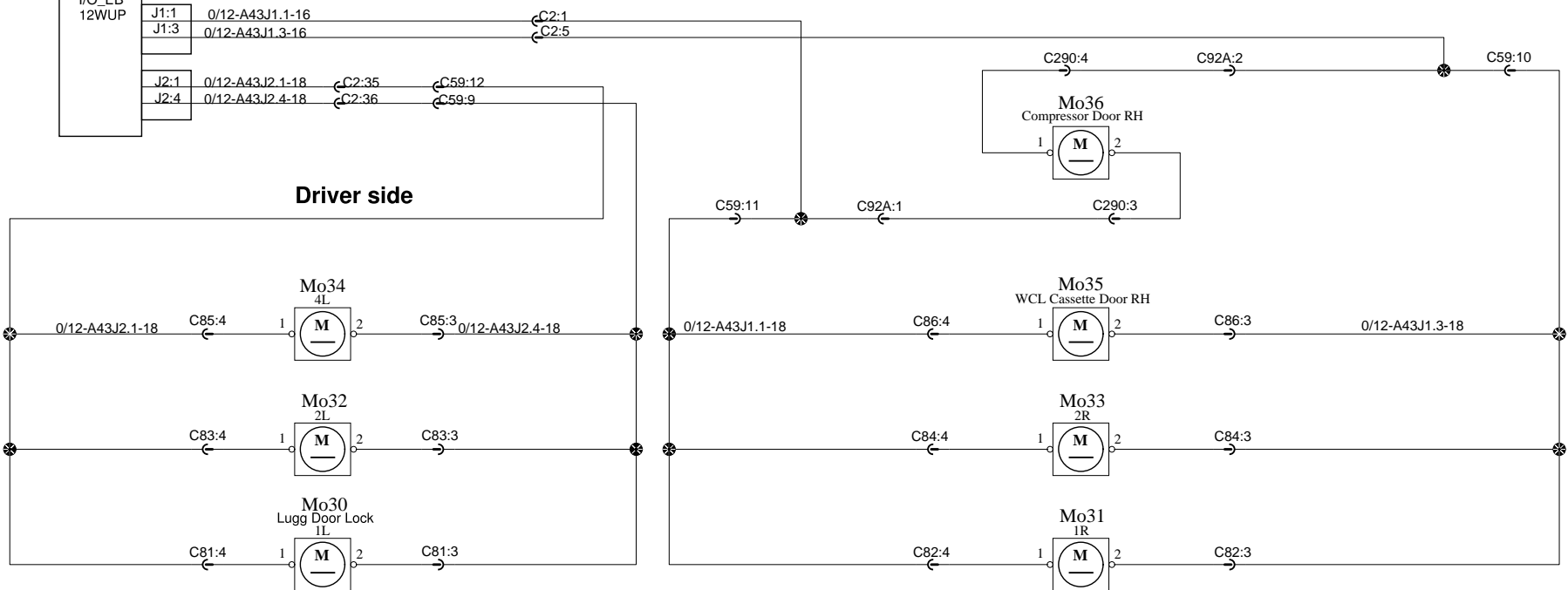
Kneeling, Tag and Park brake control



Luggage door Lock/Unlock



Entrance door side



1

2

3

4

5

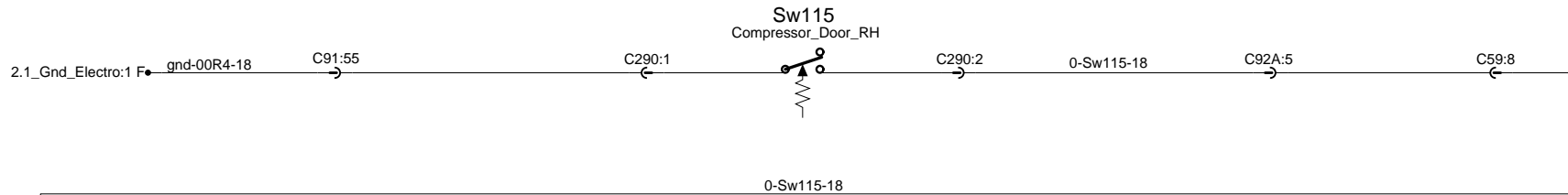
A

Luggage door lock switches

A

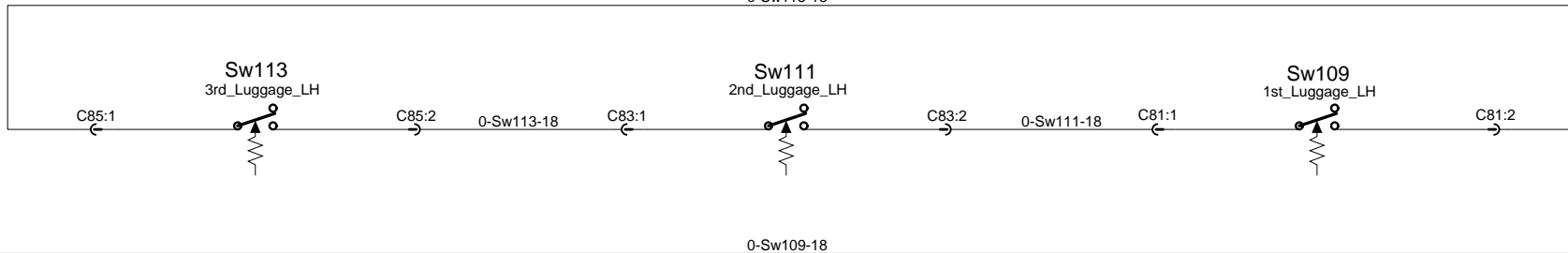
Switch closed = Door locked

B



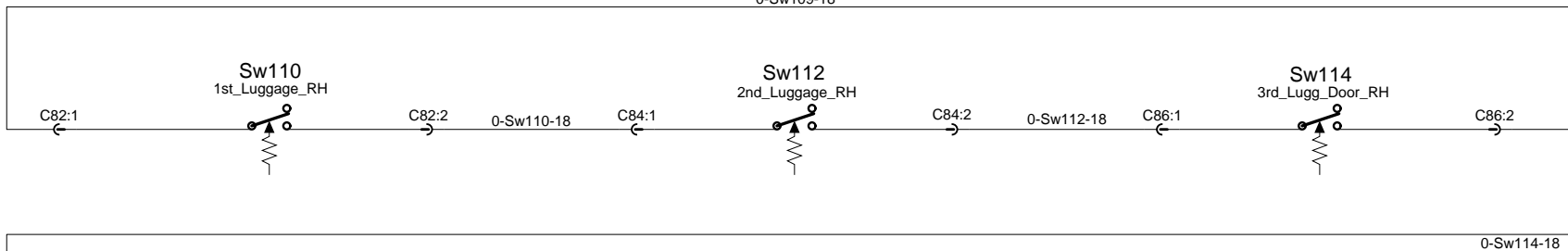
B

C



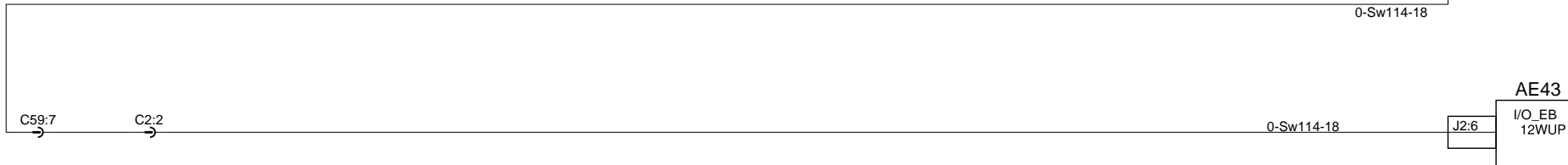
C

D



D

E



E

1

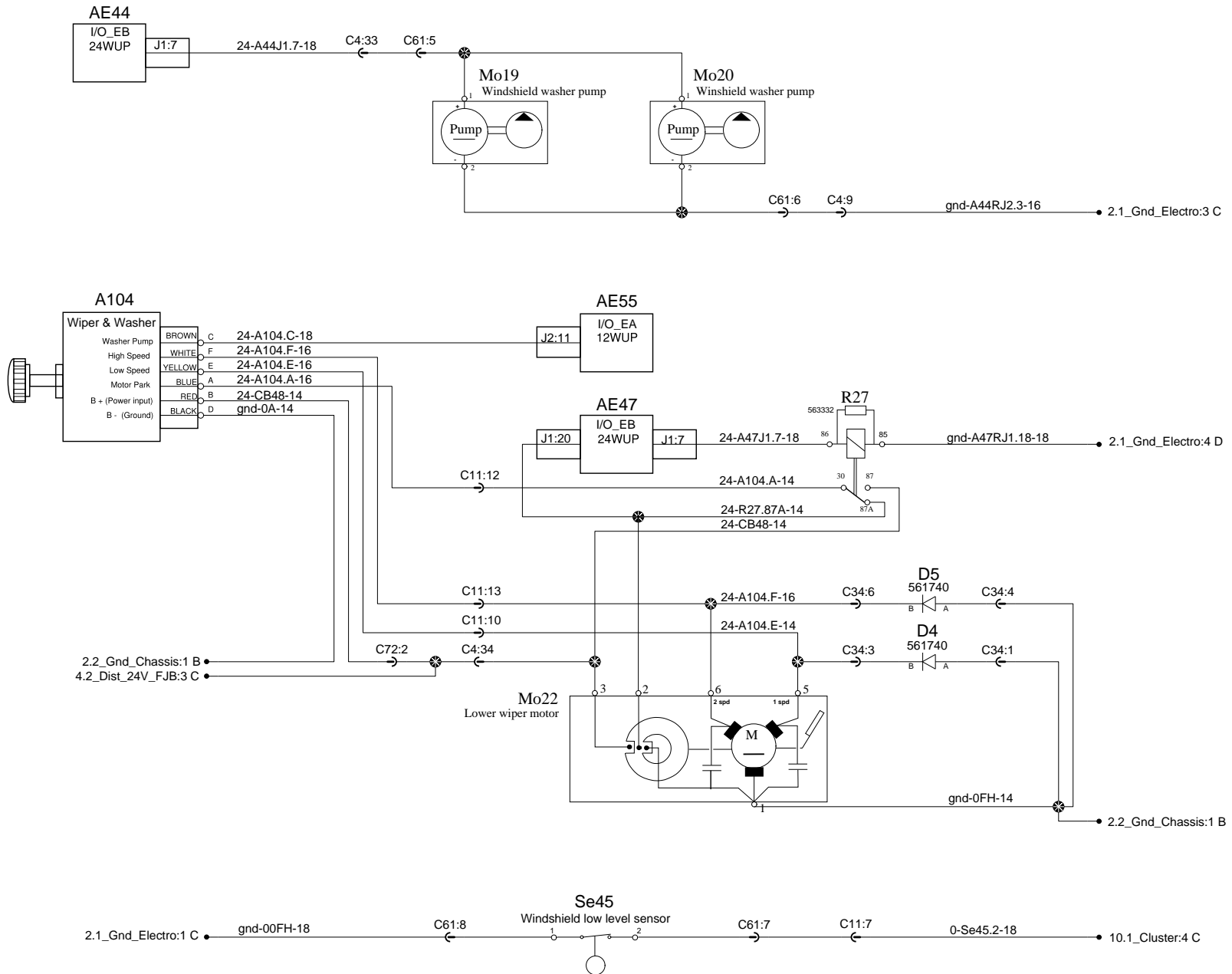
2

3

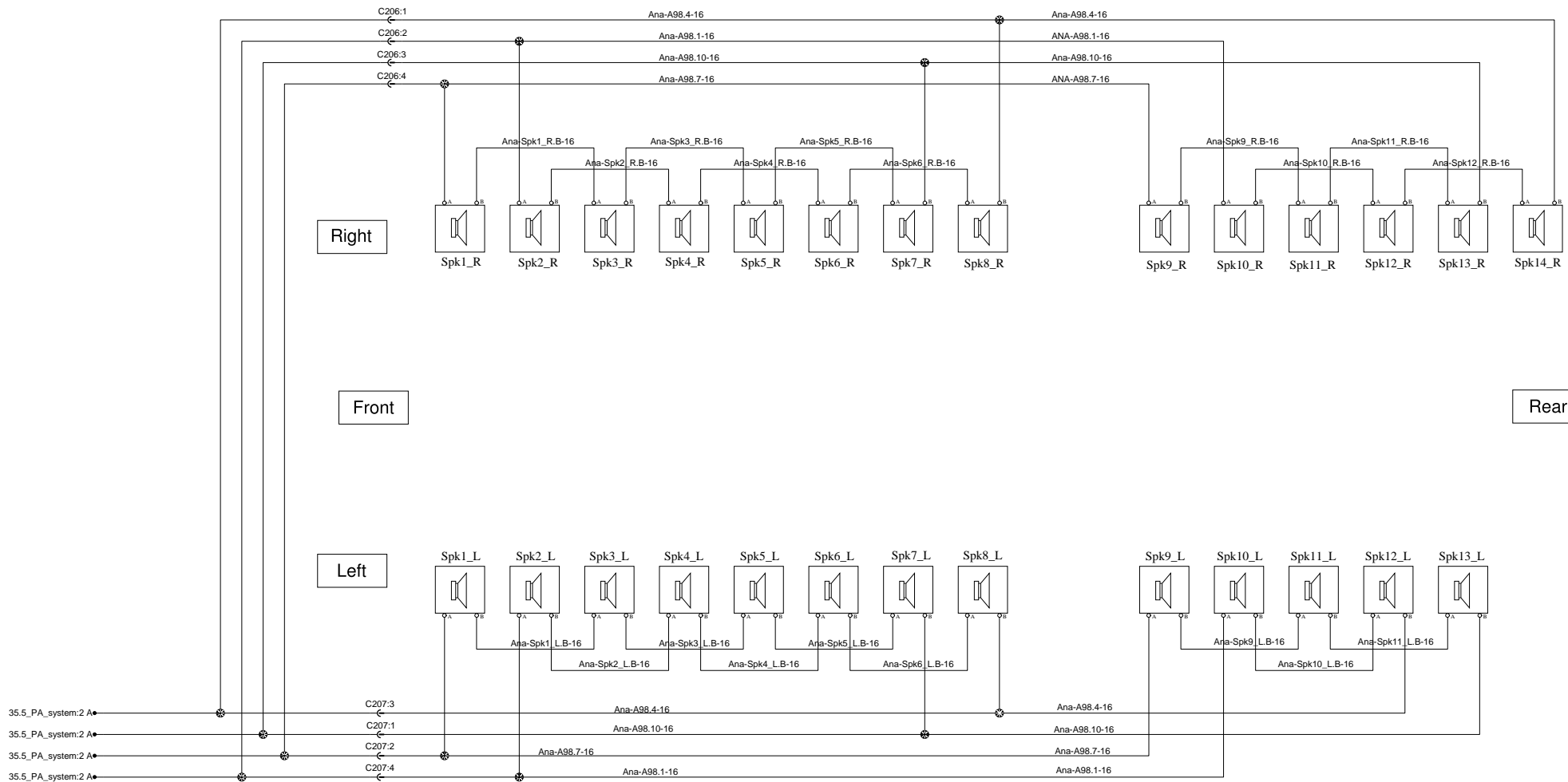
4

5

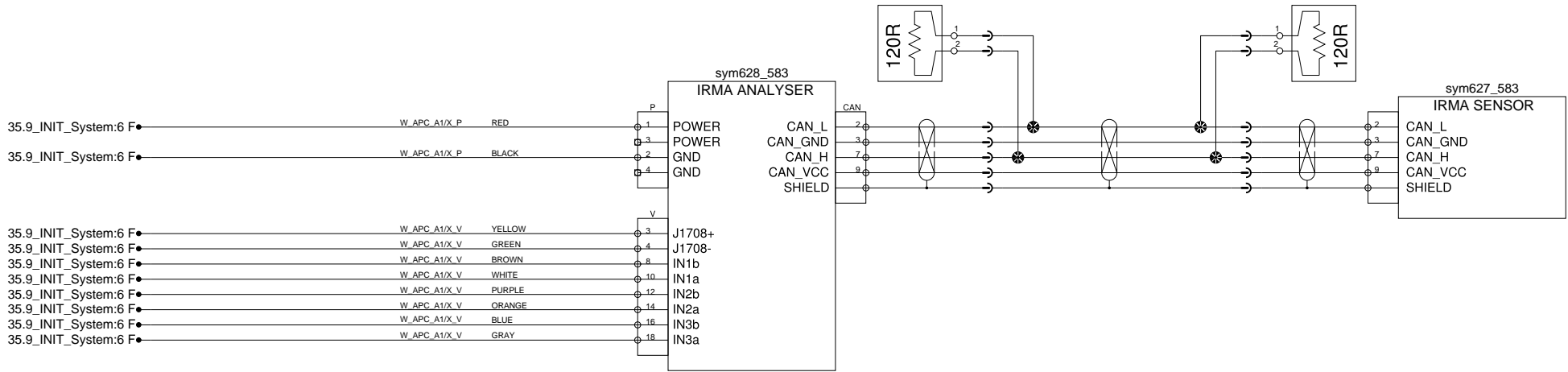
Wiper and washer

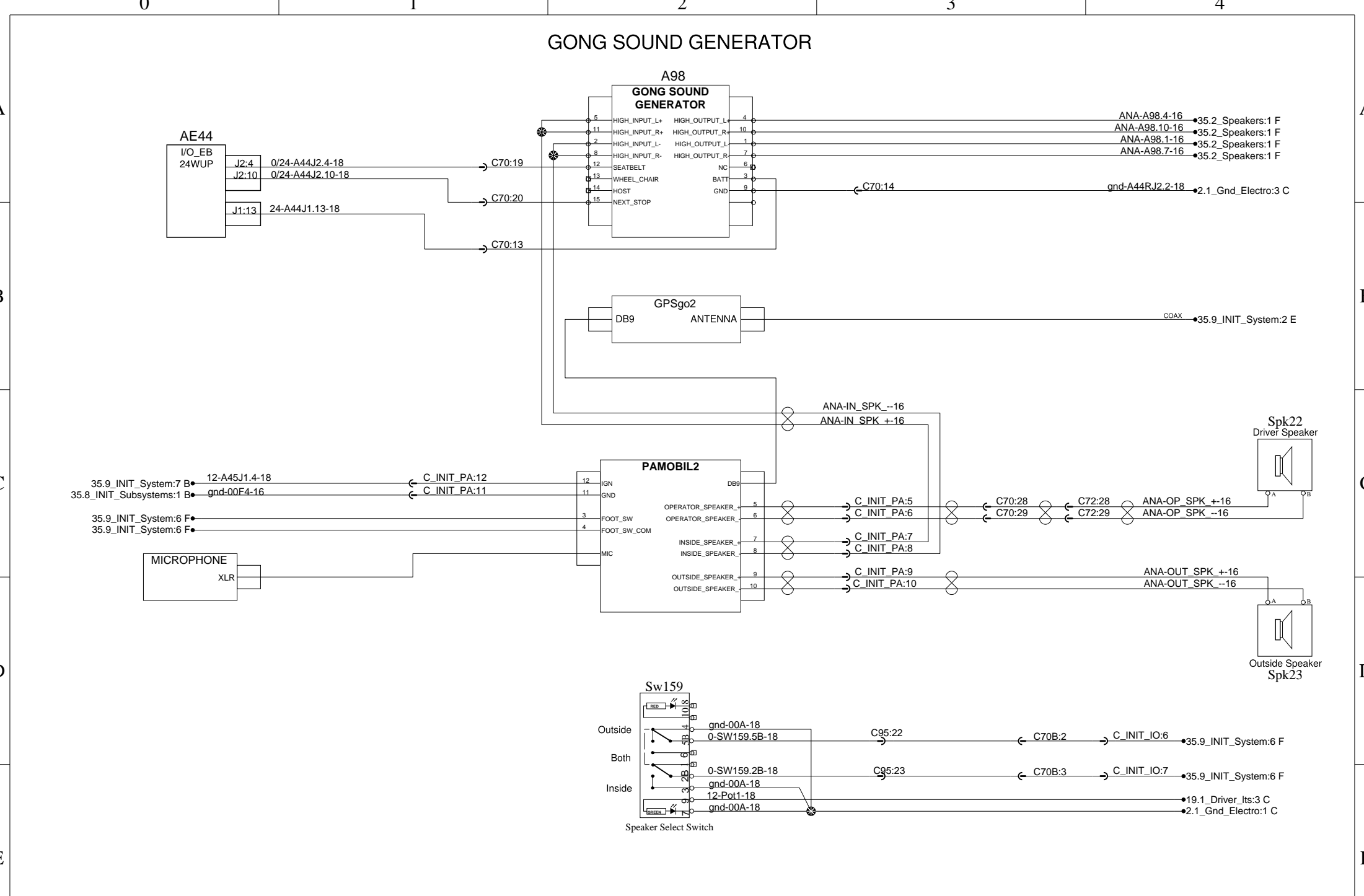


Speakers arrangement (Delta configuration)

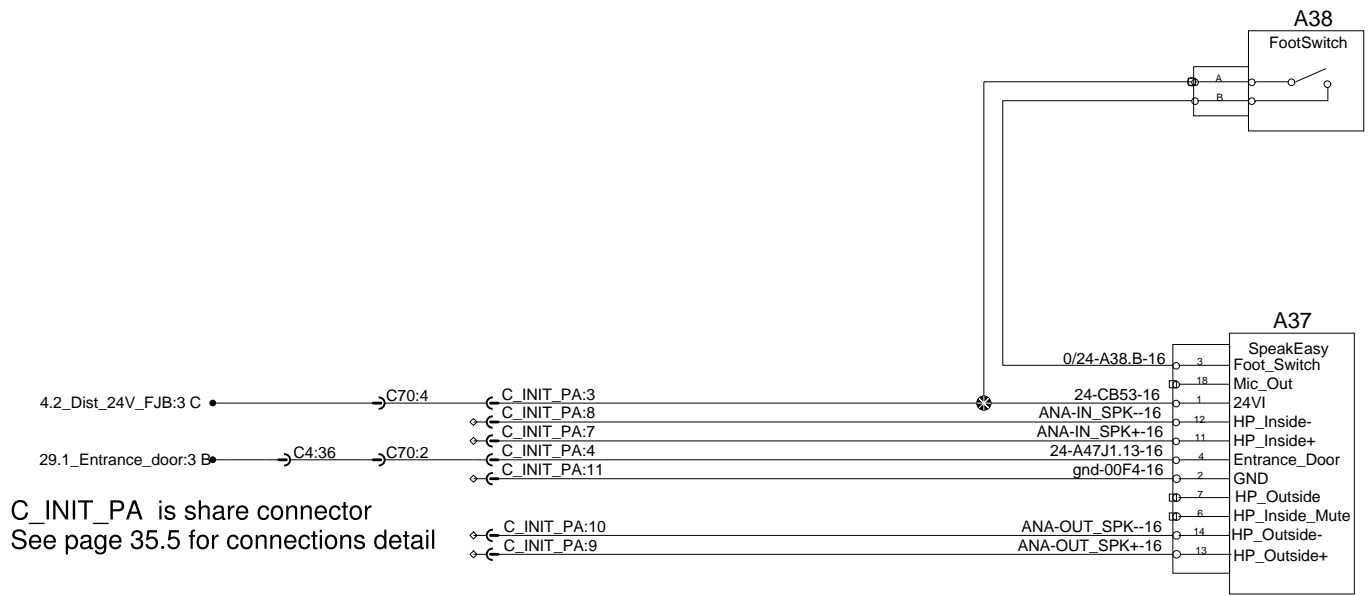


AUTOMATIC PASSENGER COUNTING

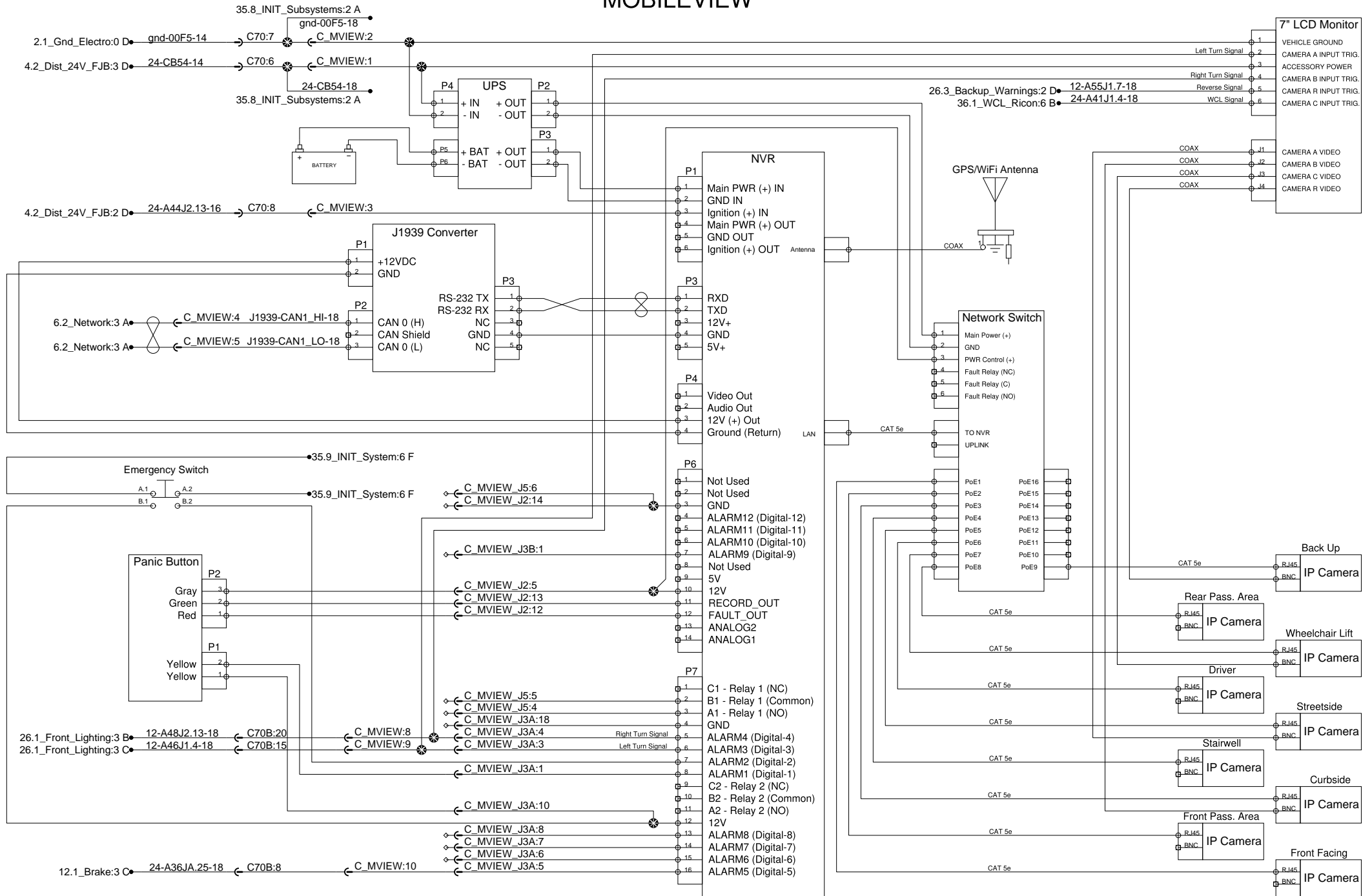




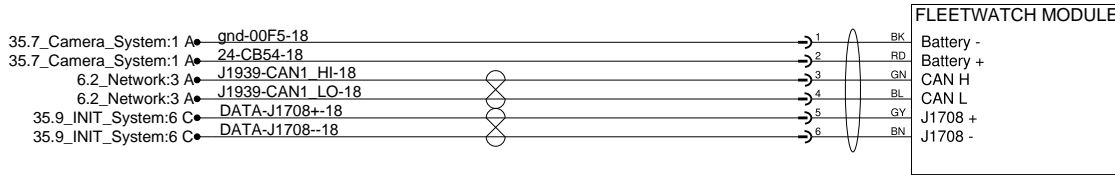
Speak Easy StandAlone



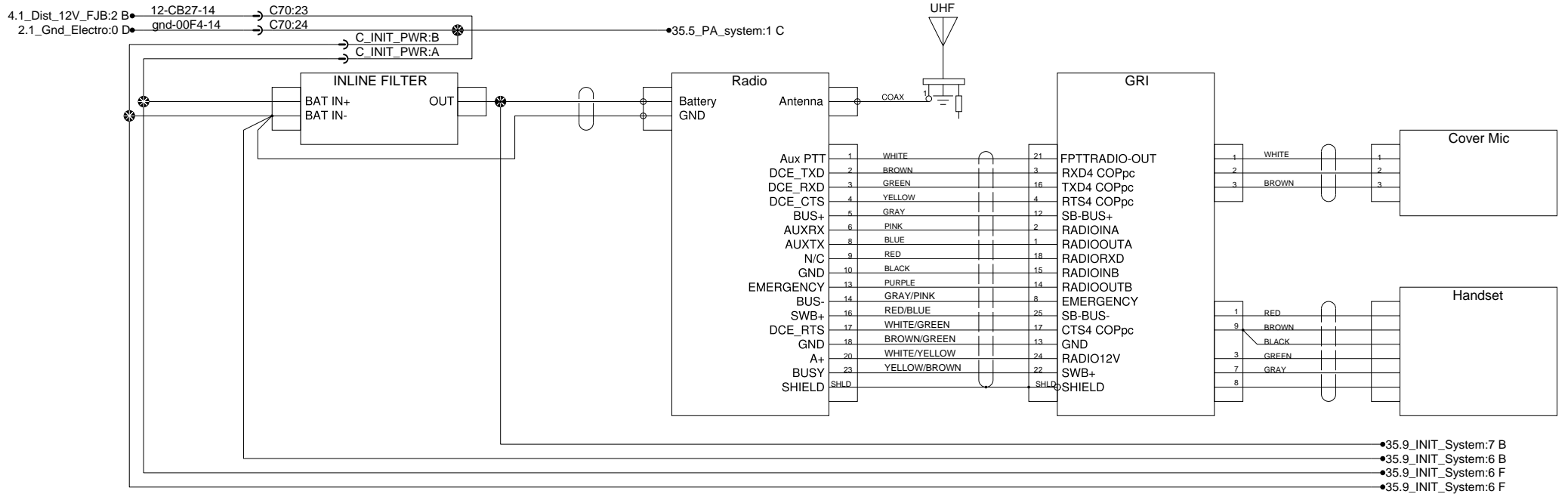
MOBILEVIEW



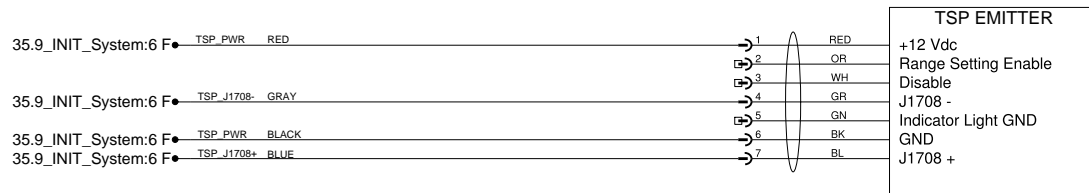
FLEETWATCH



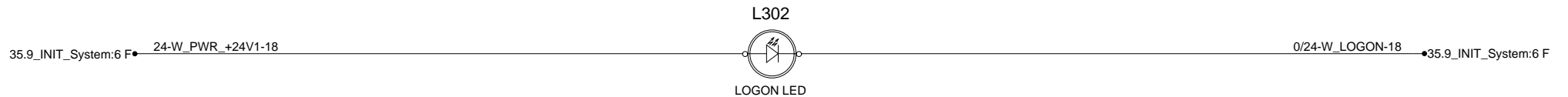
RADIO



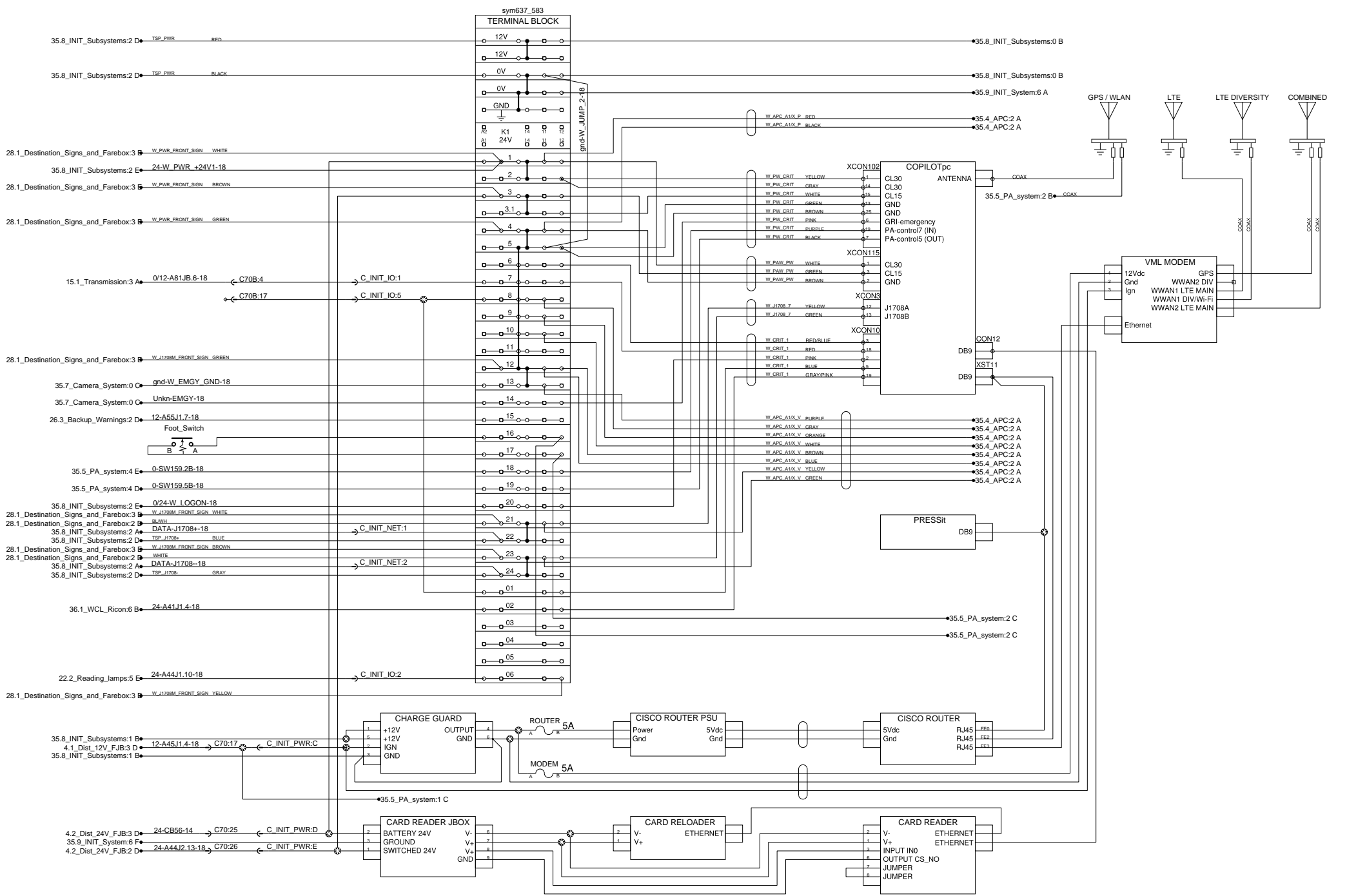
TRAFFIC SIGNAL PRIORITY



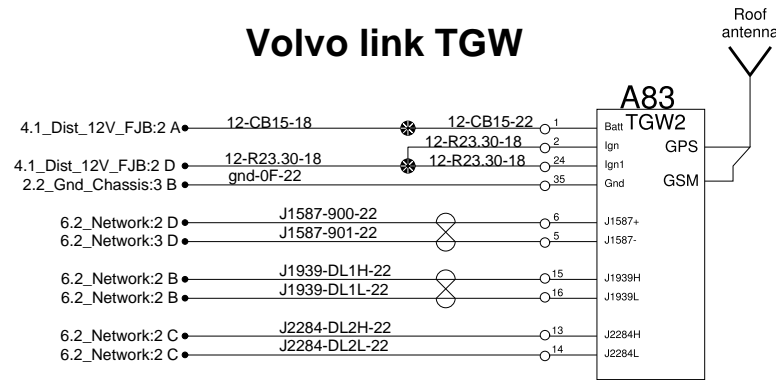
LOGON INDICATOR LIGHT



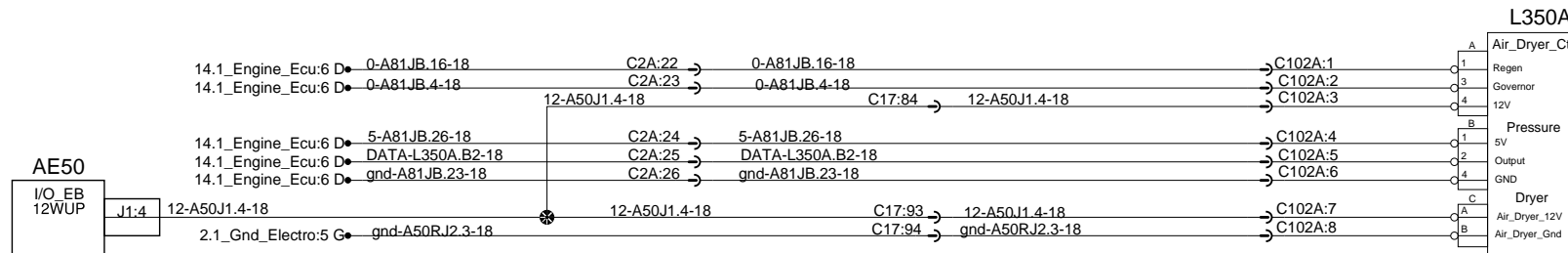
INIT SYSTEM



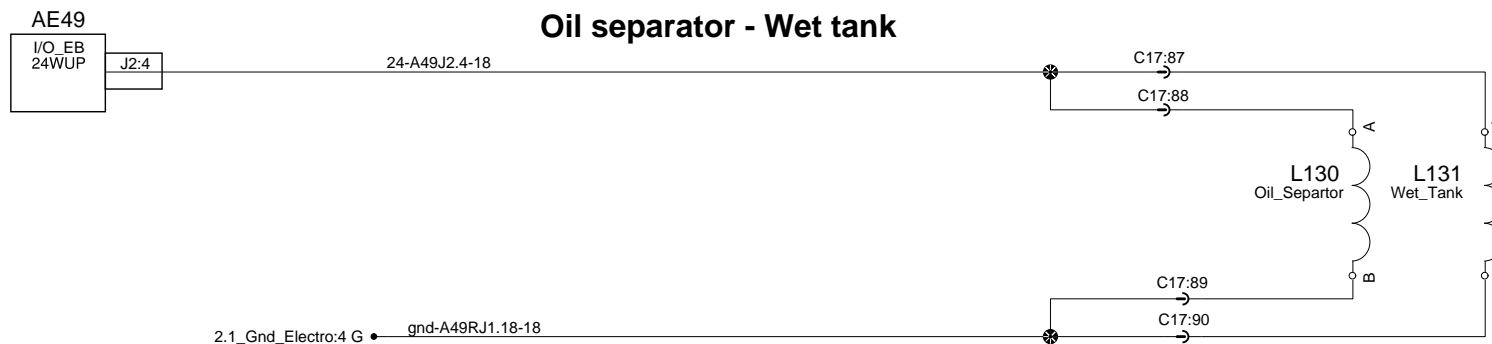
Volvo link TGW



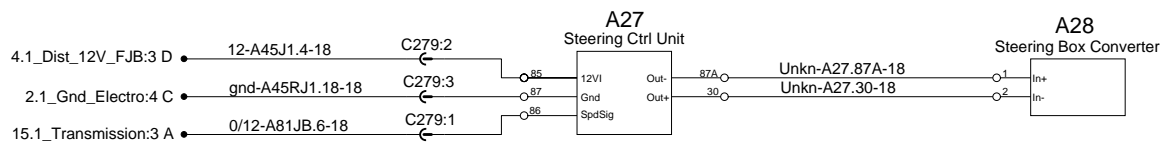
Air dryer electric control and heater



Oil separator - Wet tank



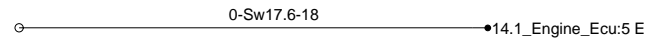
ZF Steering control



Automatic fire suppression system KIDDE

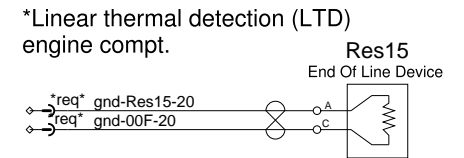
A

A



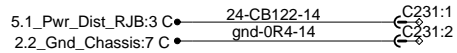
B

B



C

C



LTD are rated to alarm
between 334F (168C) and
356F (180C), if the temperature
sensitive insulation melt,
the two wires give a signal
when short-circuiting.

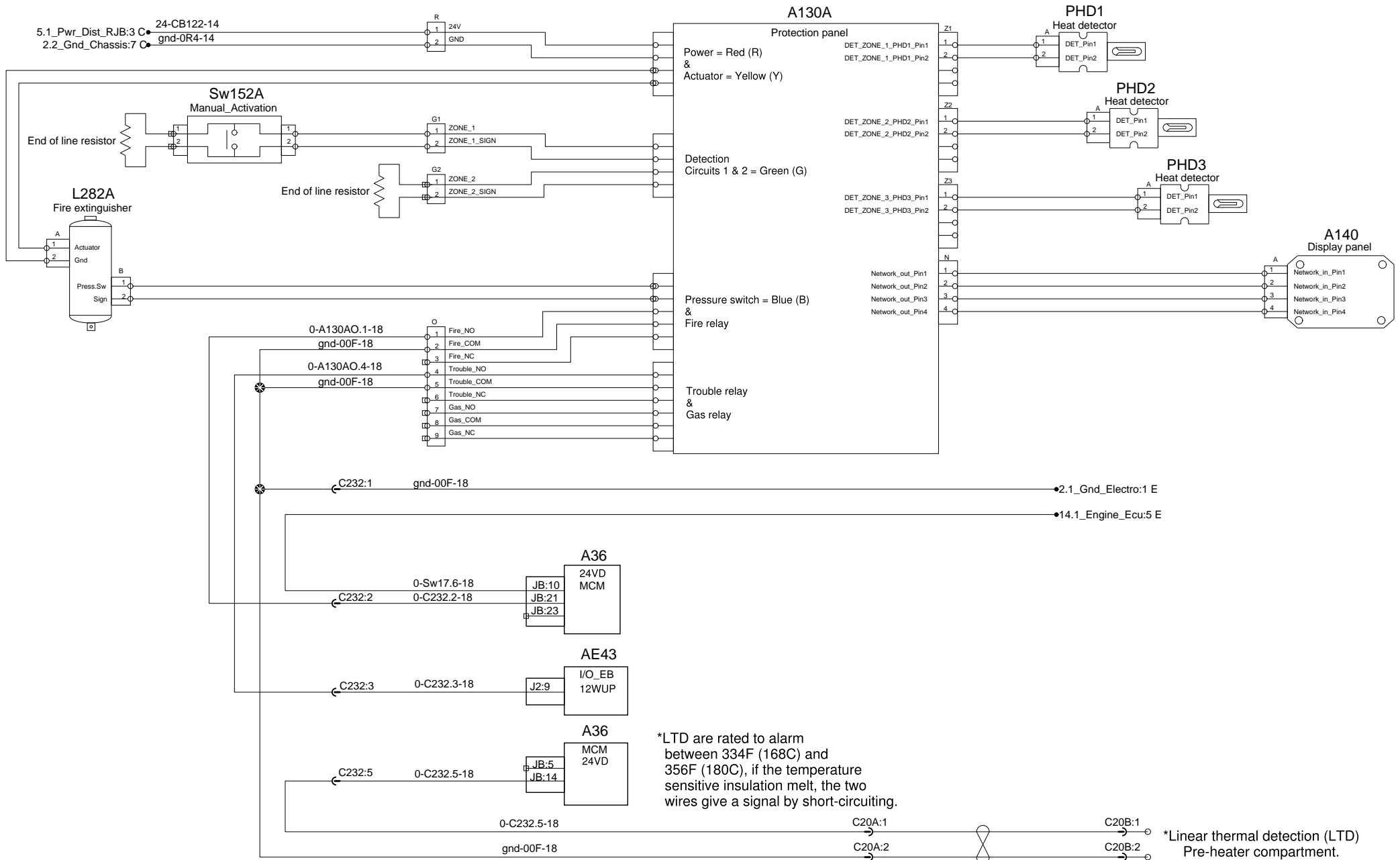
D

D

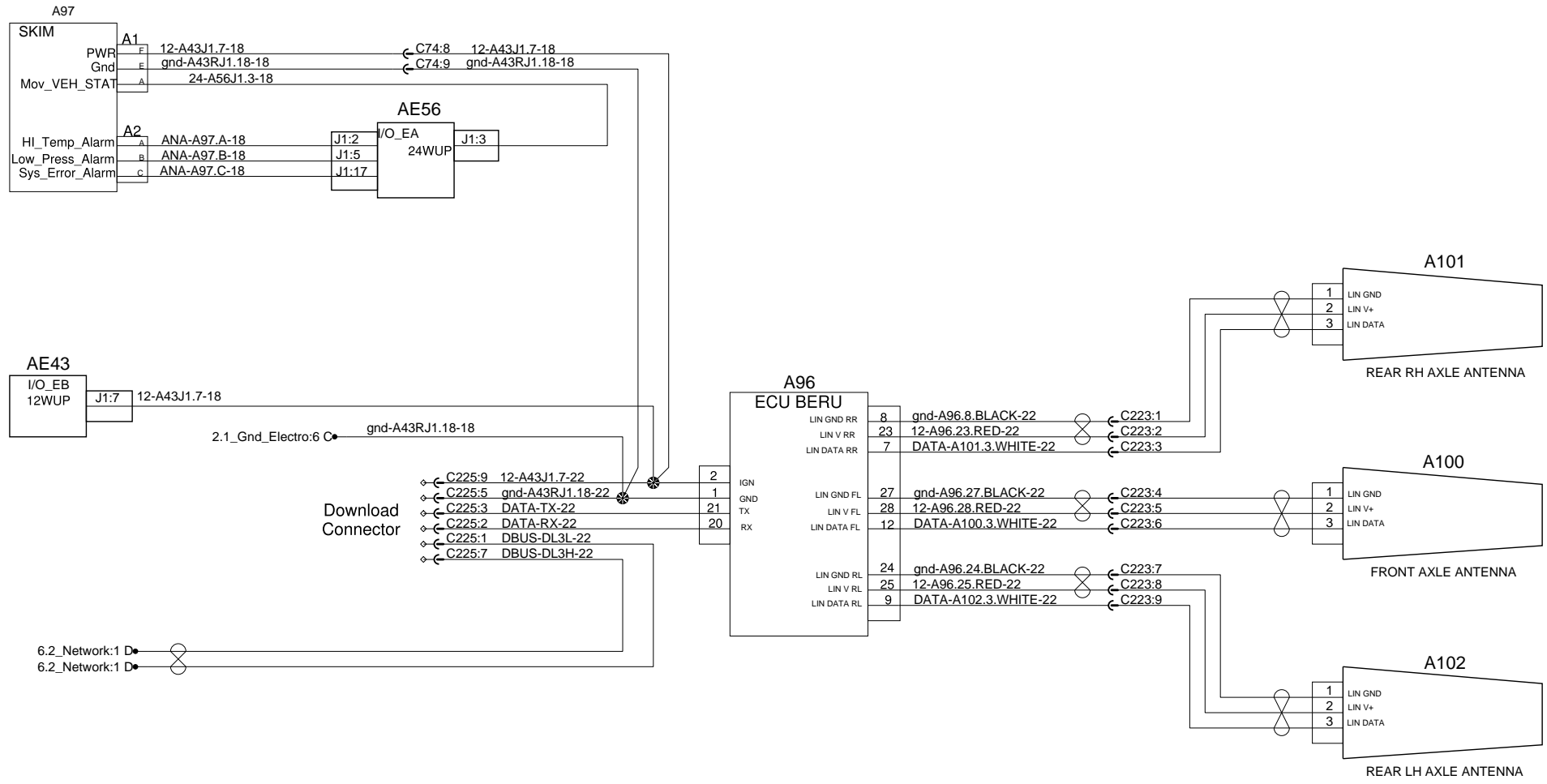
E

E

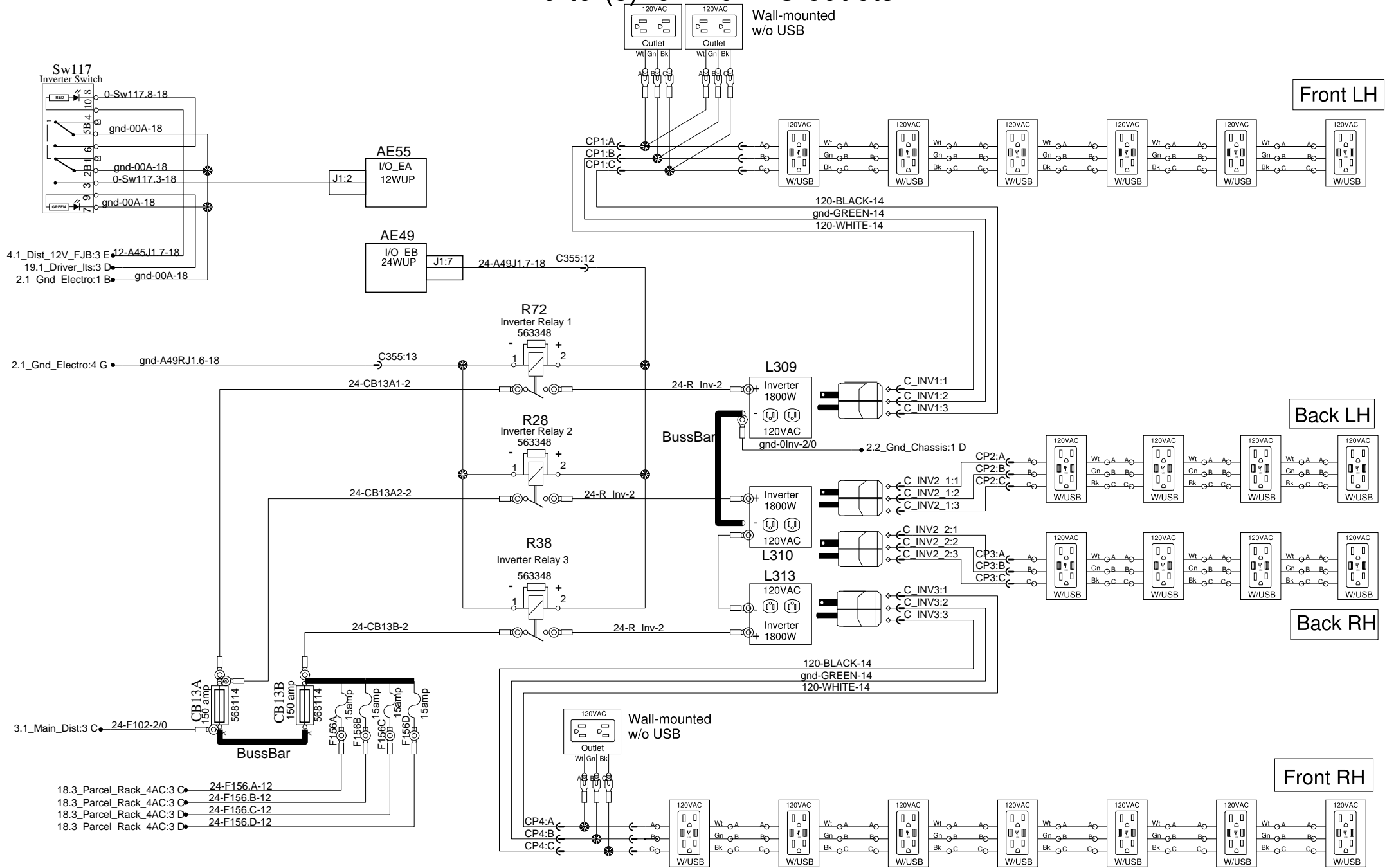
Automatic fire suppression system Amerex



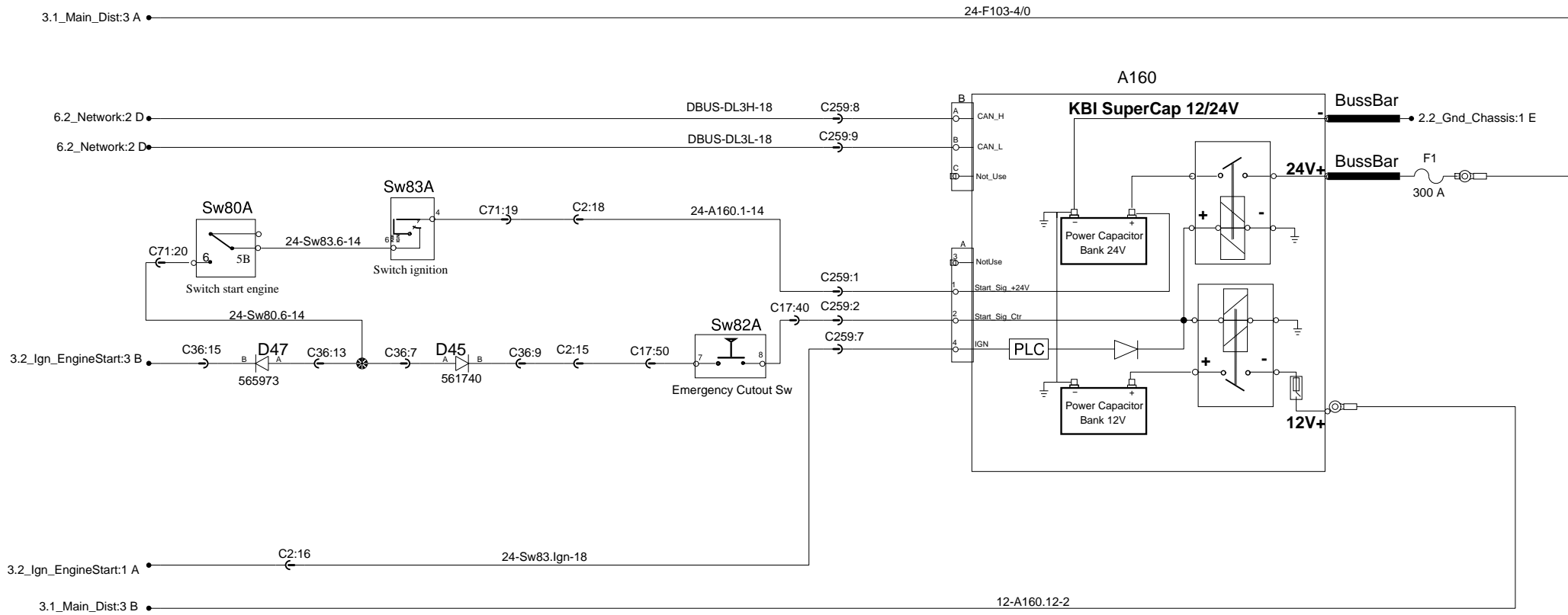
TIRE PRESSURE MONITORING SYSTEM



Inverter(s) & 120VAC outlets



Ultracap (Starting aid)



Auxiliary batteries (Starting aid)

