

Engineering Release Notice (ERN)	Location	Change Description	A = Added D = Deleted	W = Was	Document Release Status
D-18718-73		See DCN			Date RELEASED Modification Count

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Document title

WIRING DIAGRAM, 12V MACK CONVENTIONAL

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Document type

PRODUCT SCHEMATICS

Document No

23970505

Issue

02

Volume

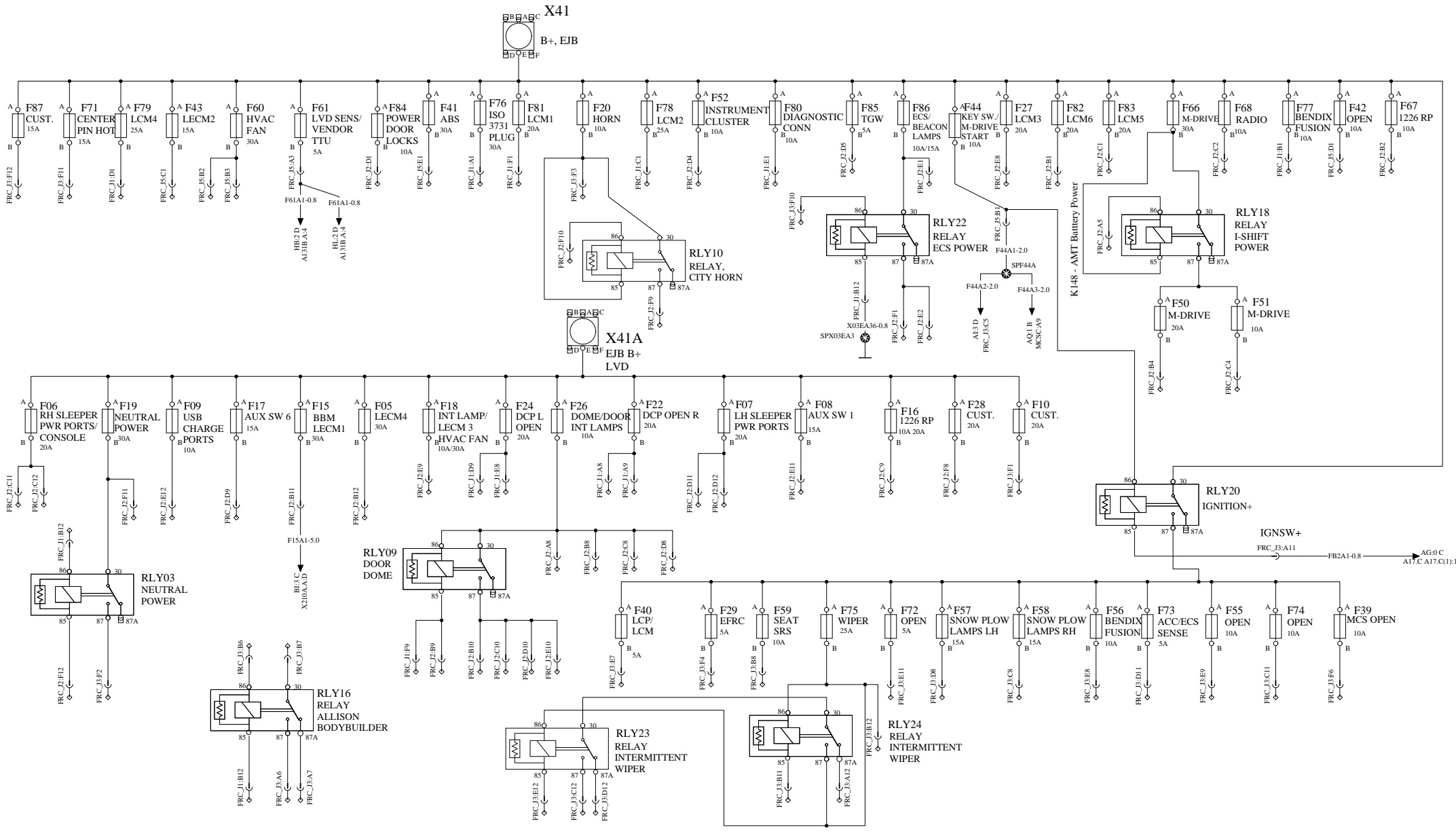
1 (1)

Sheet No

1 (104)

VOLVO

Group Trucks Technology



A

A

B

B

C

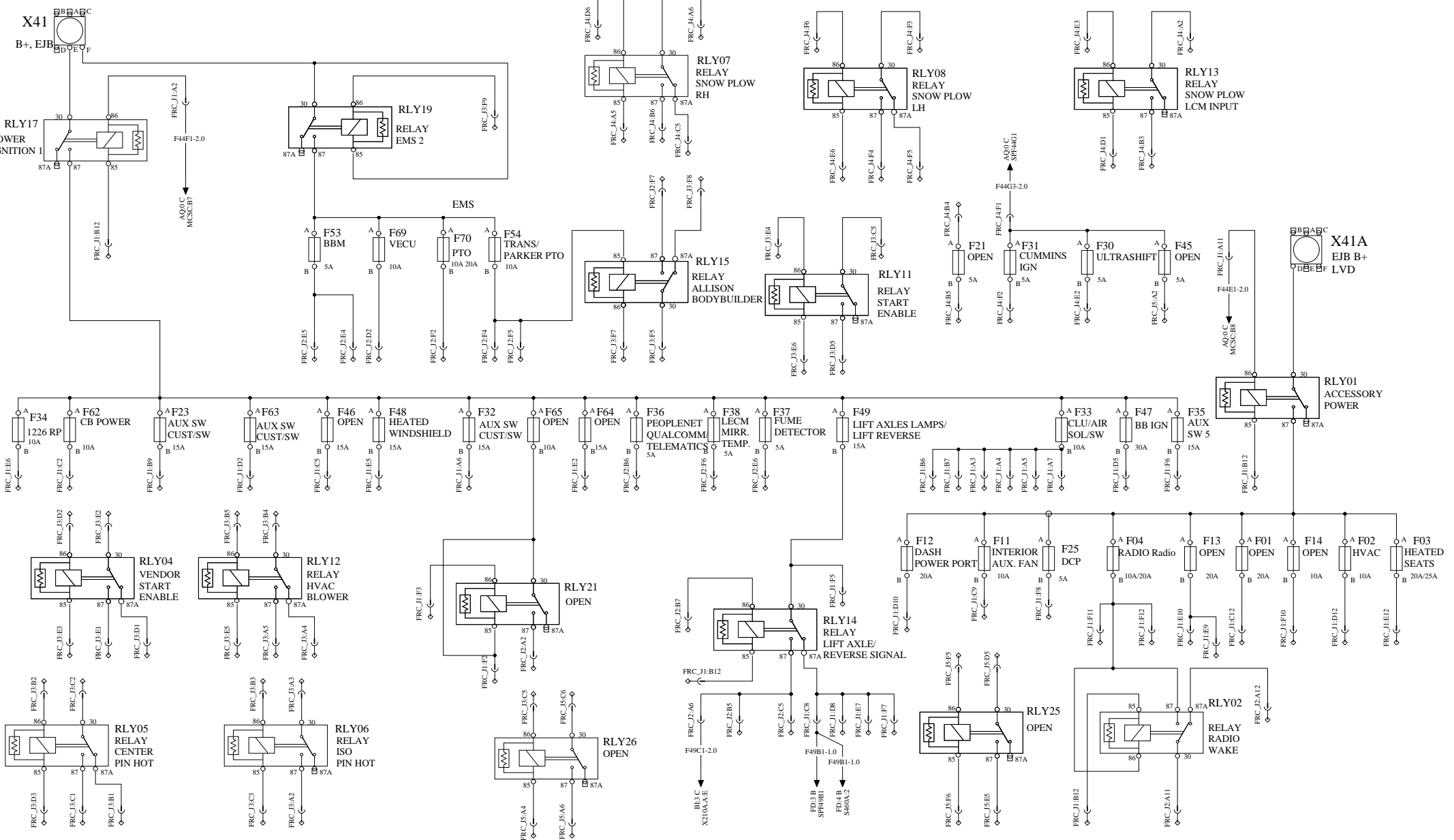
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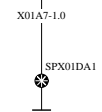
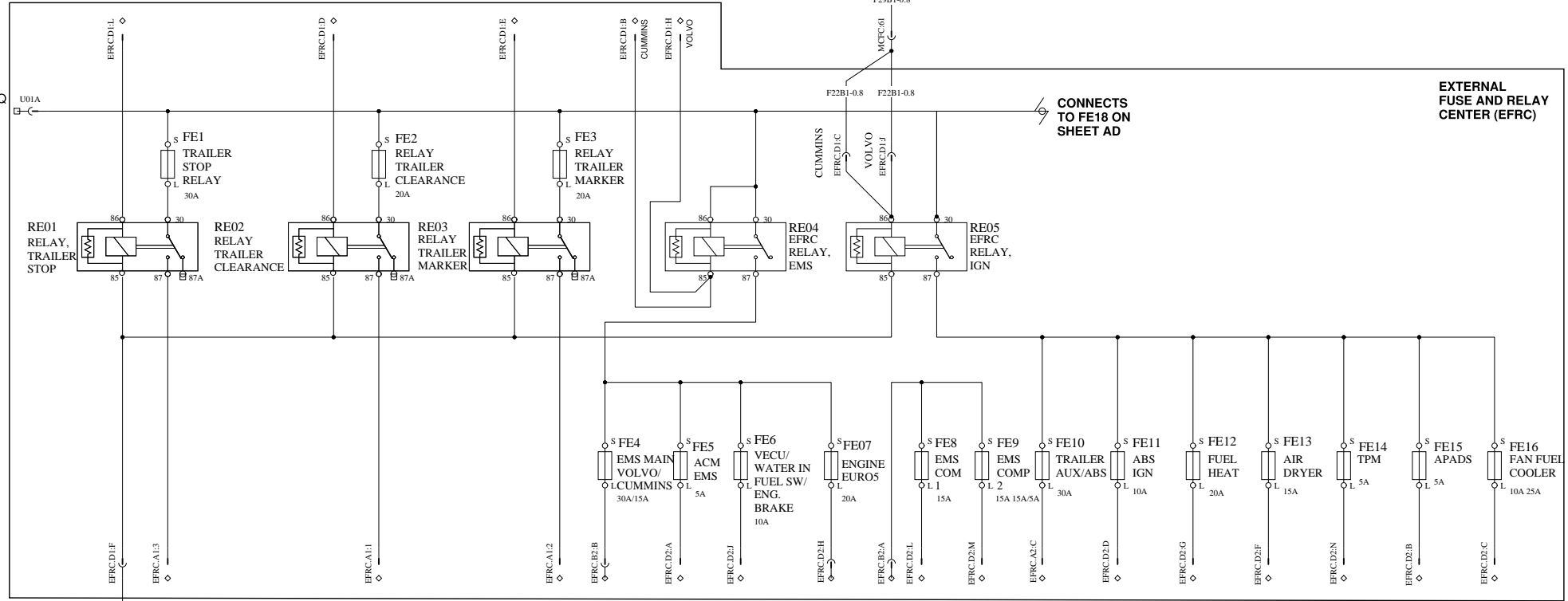


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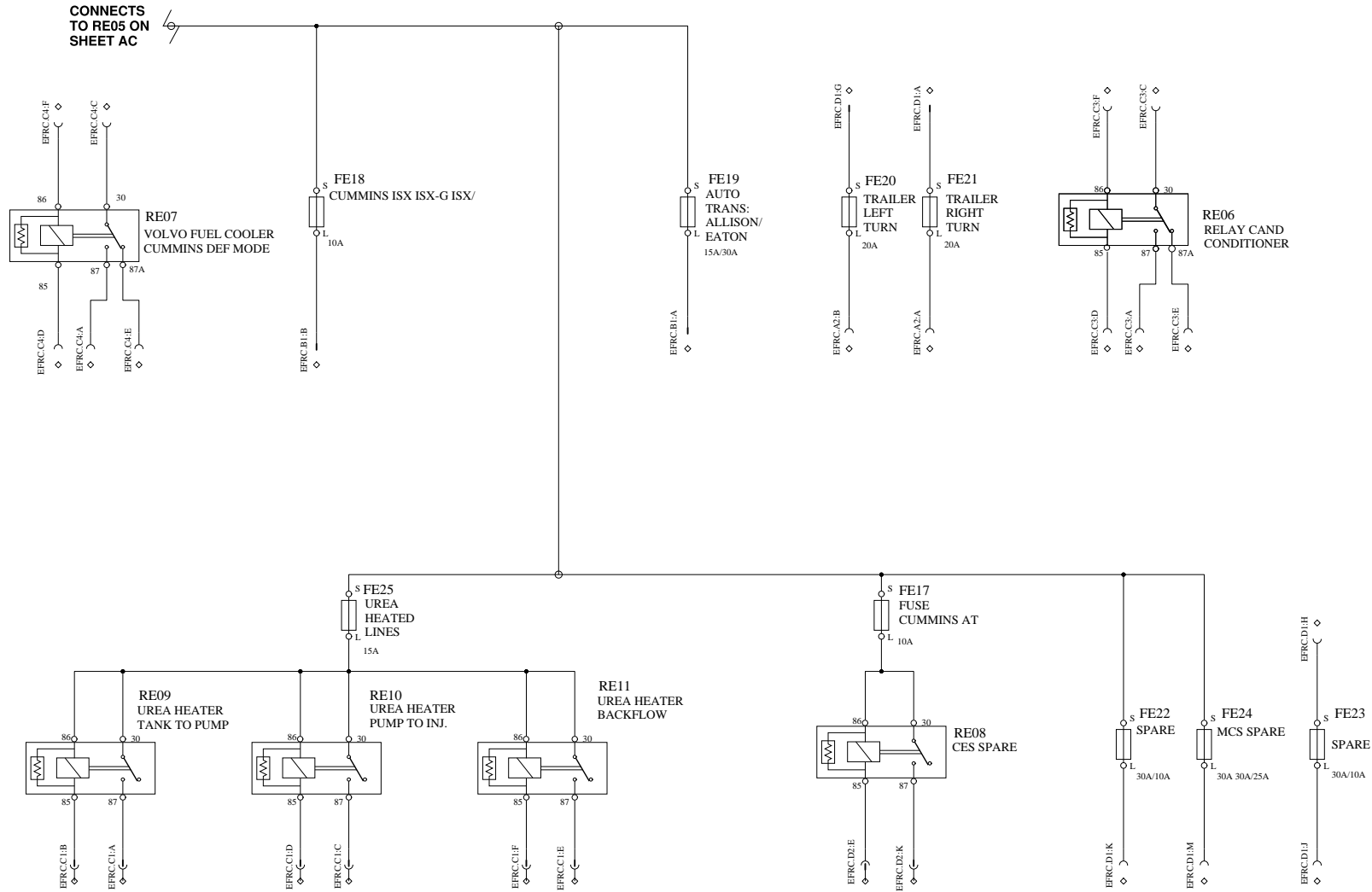
SEE SHEET AQ
CONNECTION
TO X10 STUD

CONNECTS
TO FE18 ON
SHEET AD

EXTERNAL
FUSE AND RELAY
CENTER (EFRC)

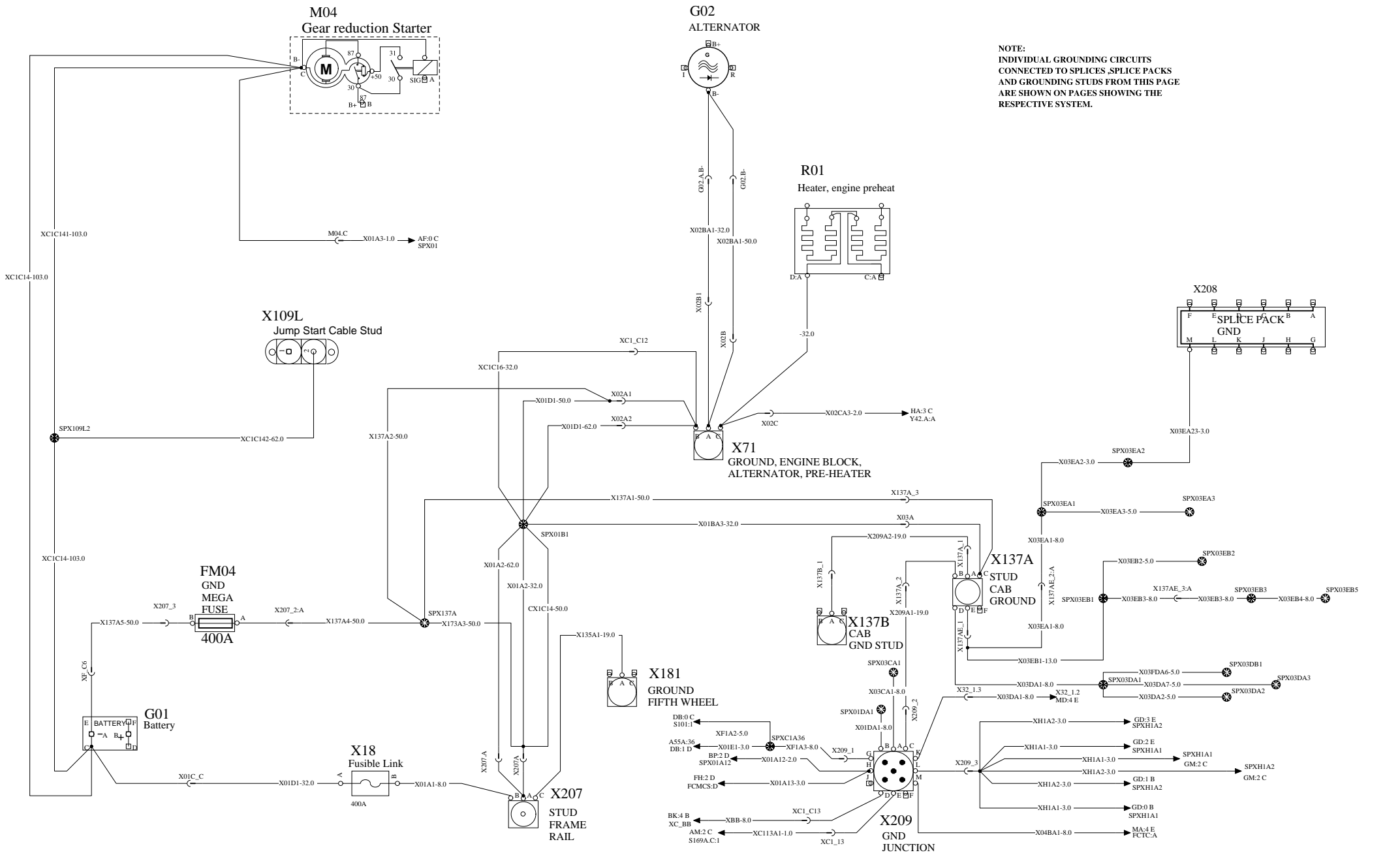


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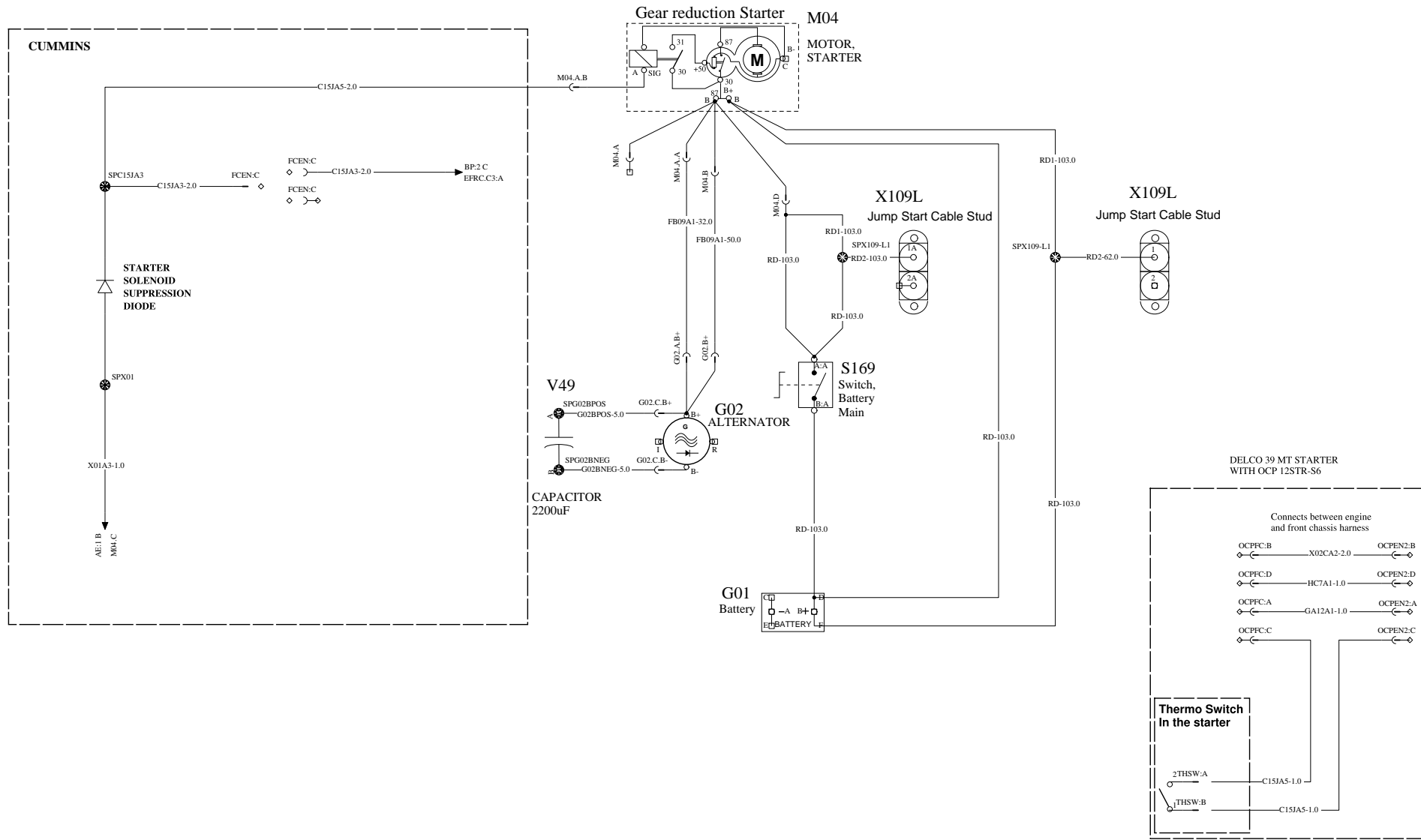


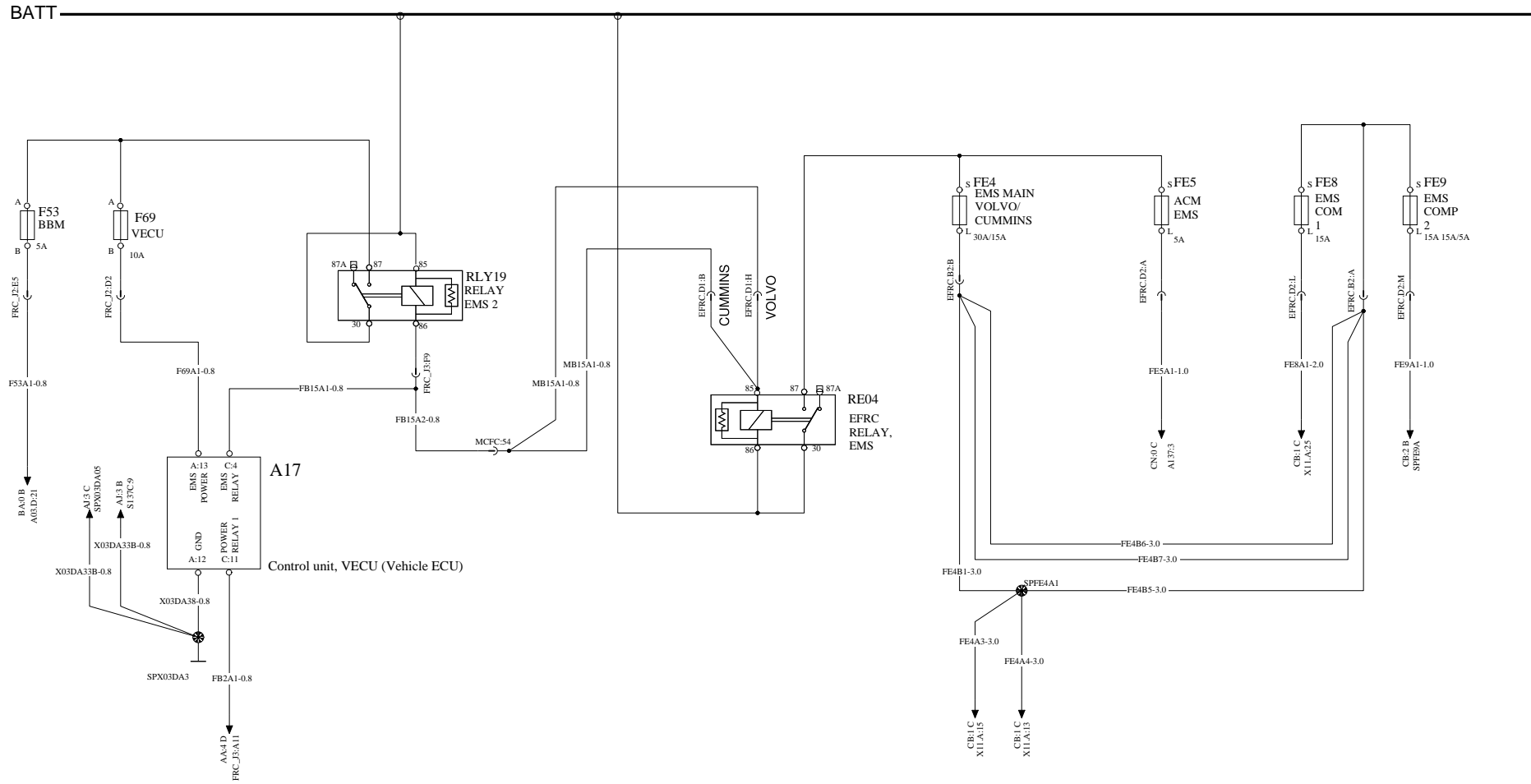
GROUNDING

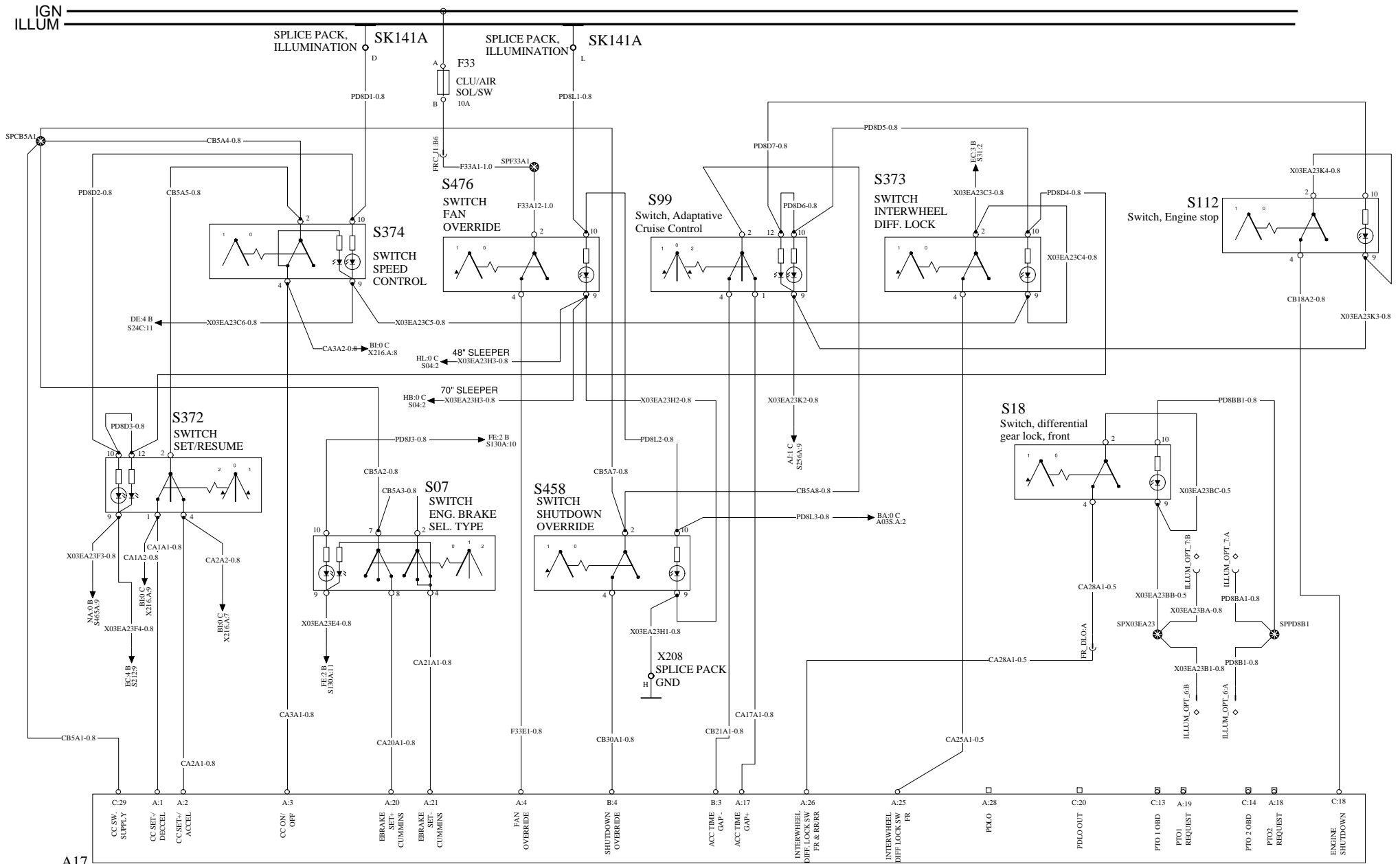
WIRING DIAGRAM: AE



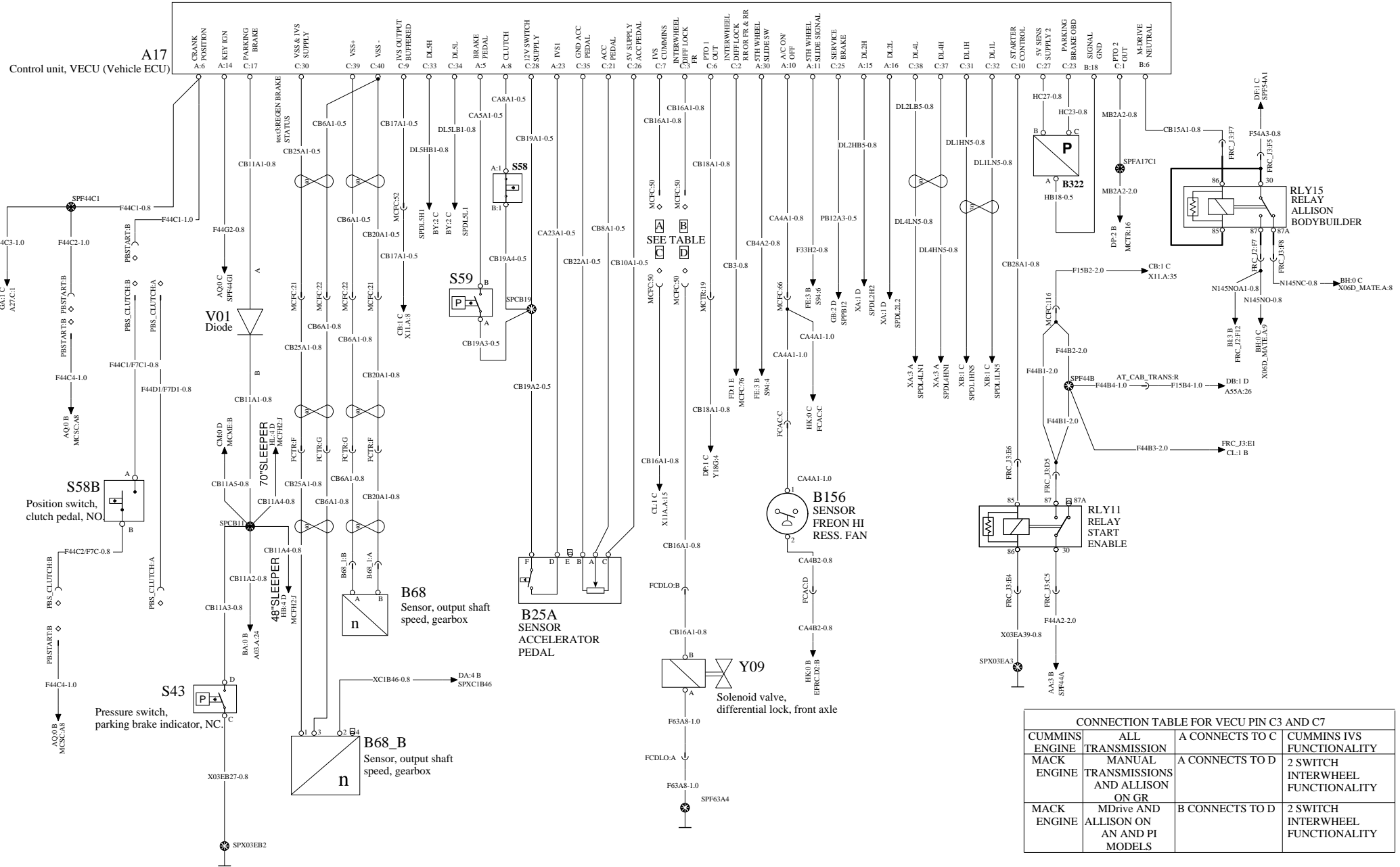
NOTE:
INDIVIDUAL GROUNDING CIRCUITS
CONNECTED TO SPLICES, SPLICE PACKS
AND GROUNDING STUDS FROM THIS PAGE
ARE SHOWN ON PAGES SHOWING THE
RESPECTIVE SYSTEM.







A17 Control unit, VECU (Vehicle ECU)

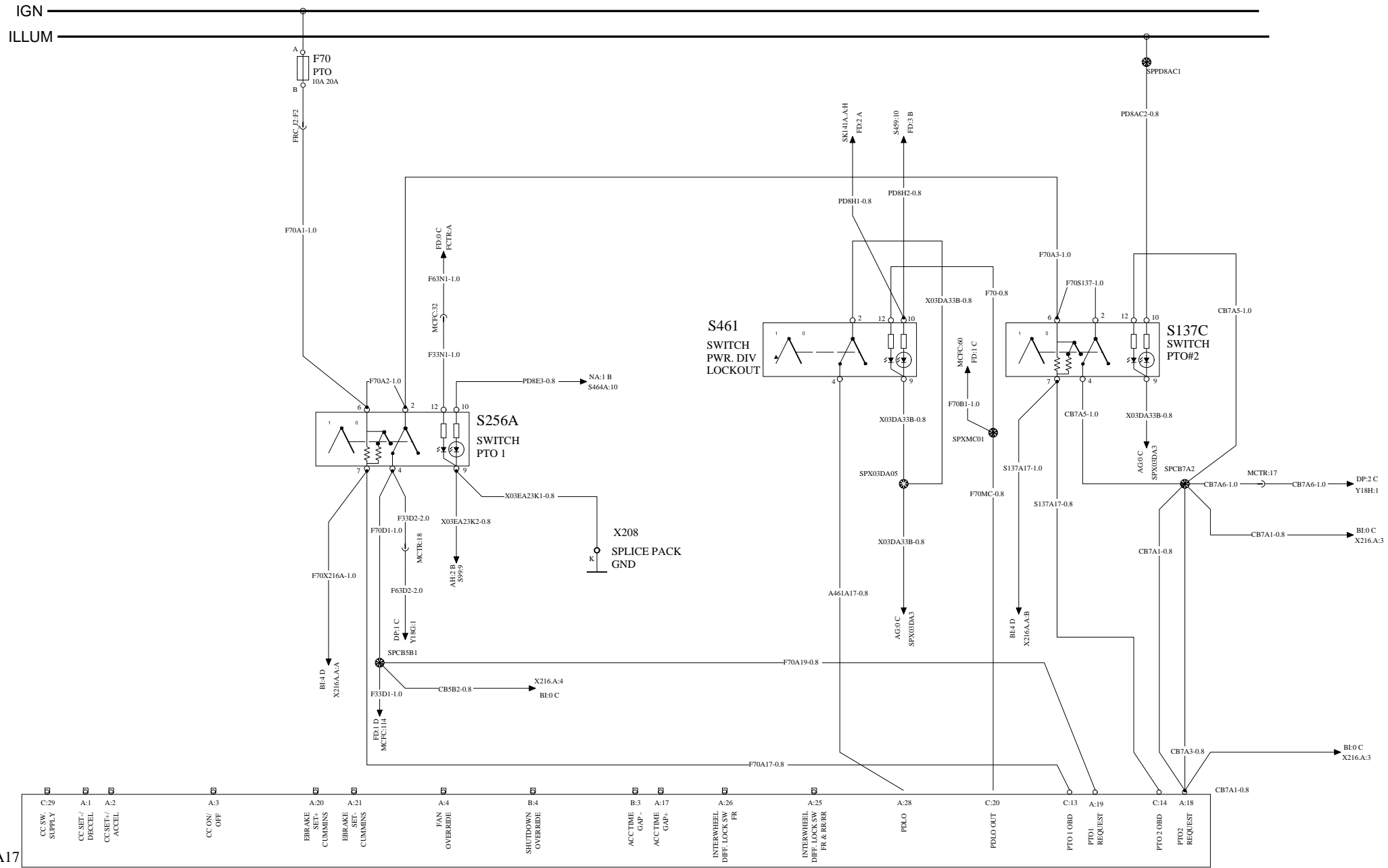


CONNECTION TABLE FOR VECU PIN C3 AND C7

CUMMINS ENGINE	ALL TRANSMISSION	A CONNECTS TO C	CUMMINS IVS FUNCTIONALITY
MACK ENGINE	MANUAL TRANSMISSIONS AND ALLISON ON GR	A CONNECTS TO D	2 SWITCH INTERWHEEL FUNCTIONALITY
MACK ENGINE	MDrive AND ALLISON ON AN AND PI MODELS	B CONNECTS TO D	2 SWITCH INTERWHEEL FUNCTIONALITY

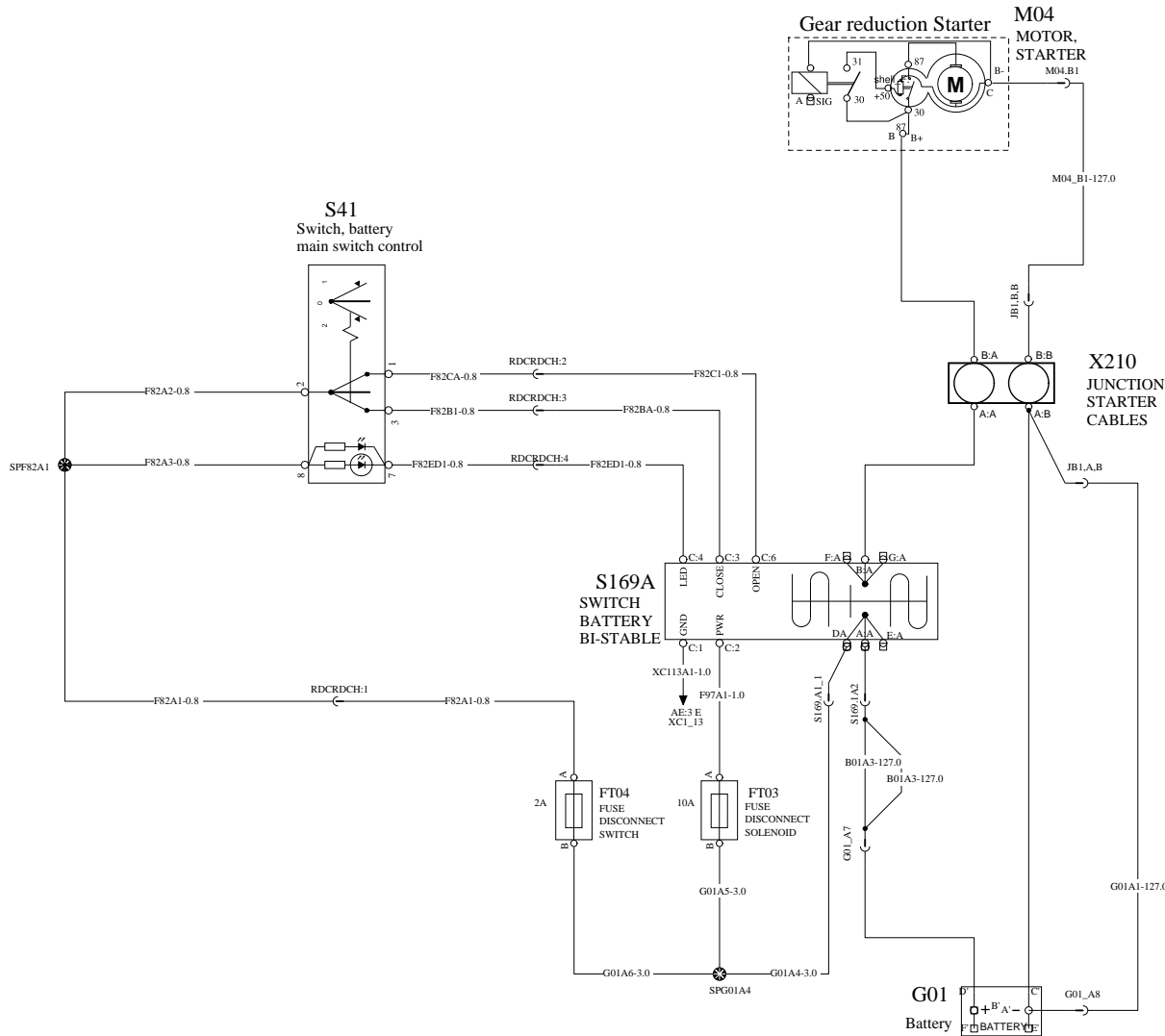
VECU, PTO AND PDLO SWITCHES

WIRING DIAGRAM: AJ



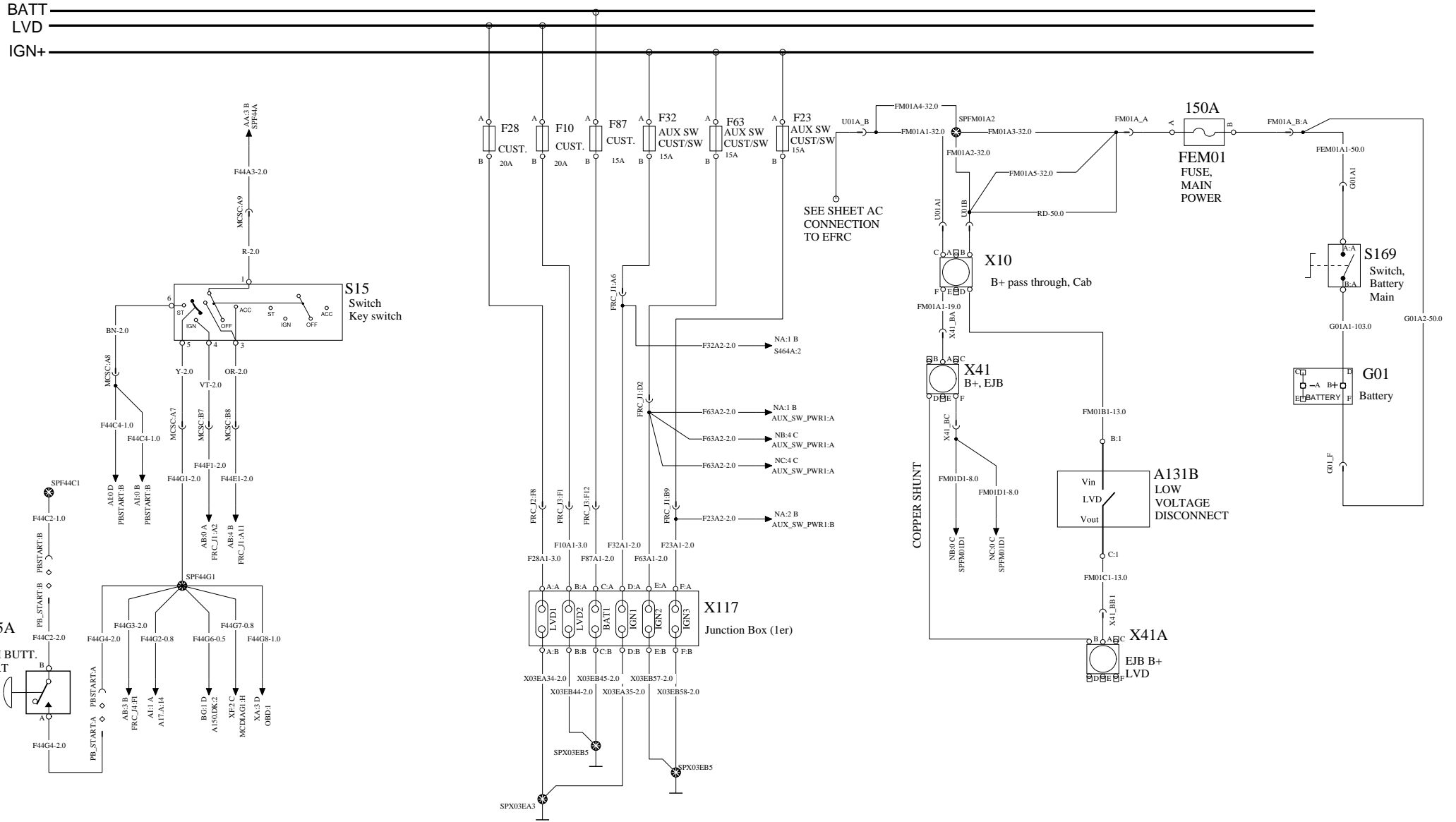
A17 Control unit, VECU (Vehicle ECU)

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POWER DISTRIBUTION / KEY SWITCH

WIRING DIAGRAM: AQ



INSTRUMENT CLUSTER 1/2

WIRING DIAGRAM: BA

A

B

C

D

E

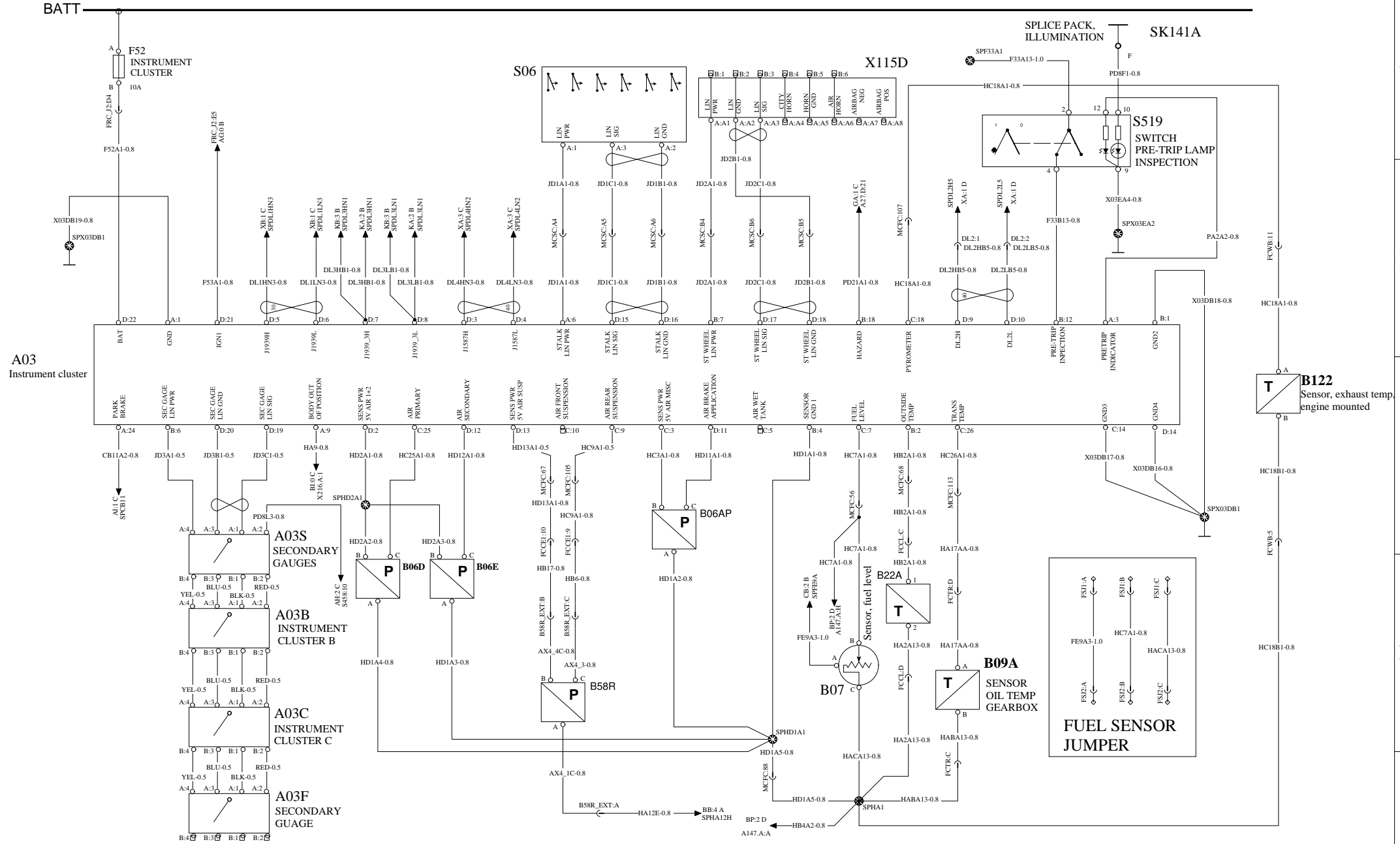
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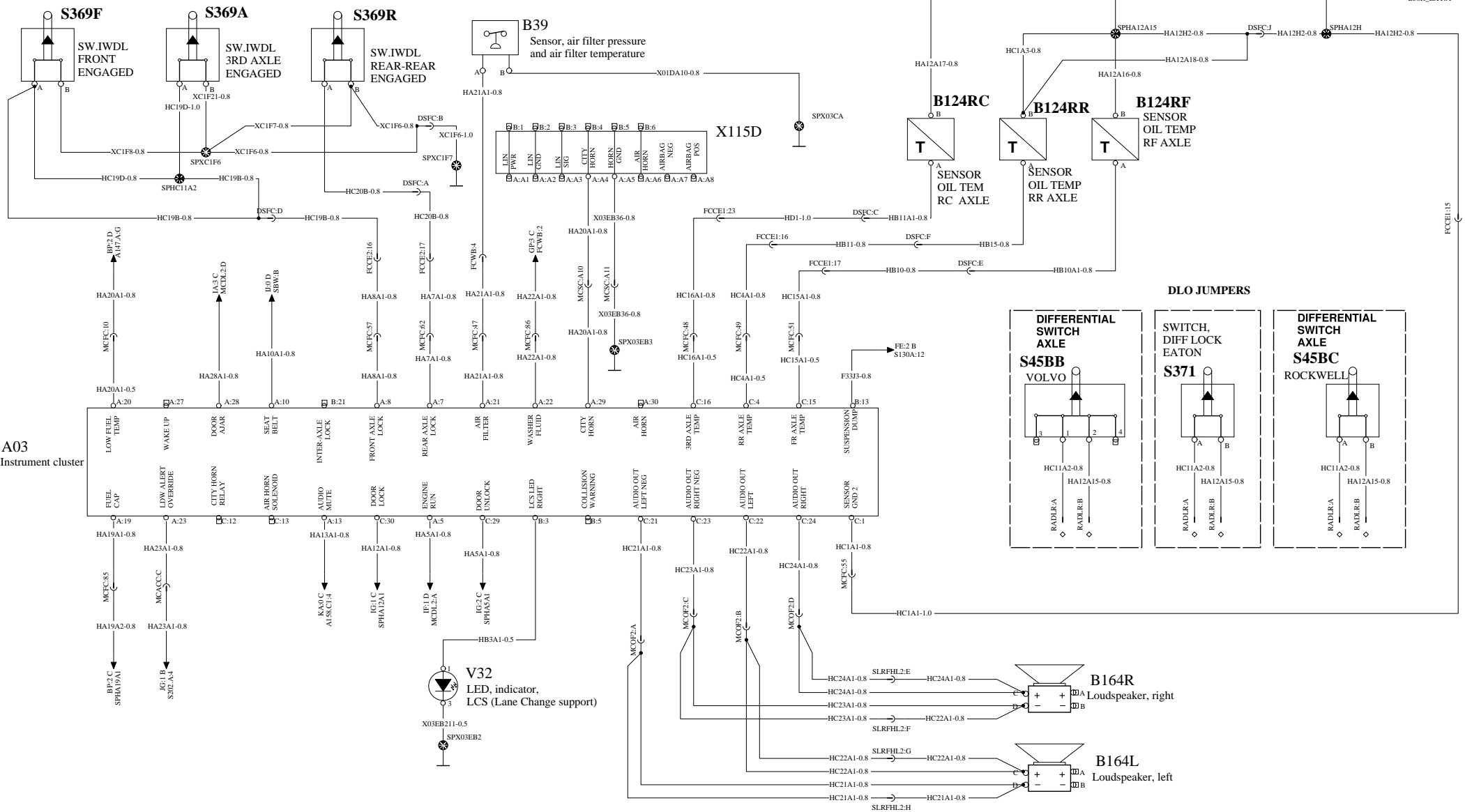
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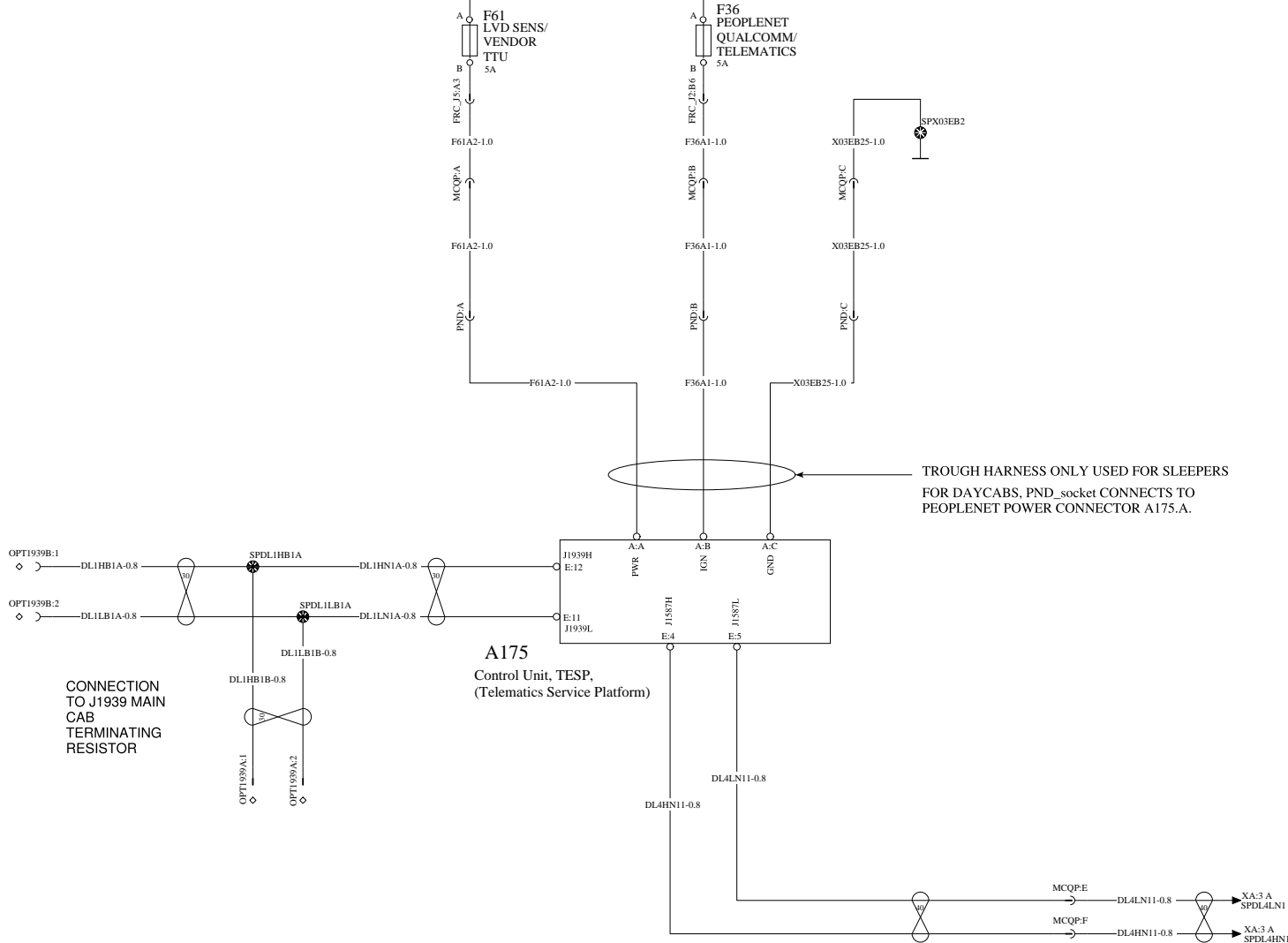
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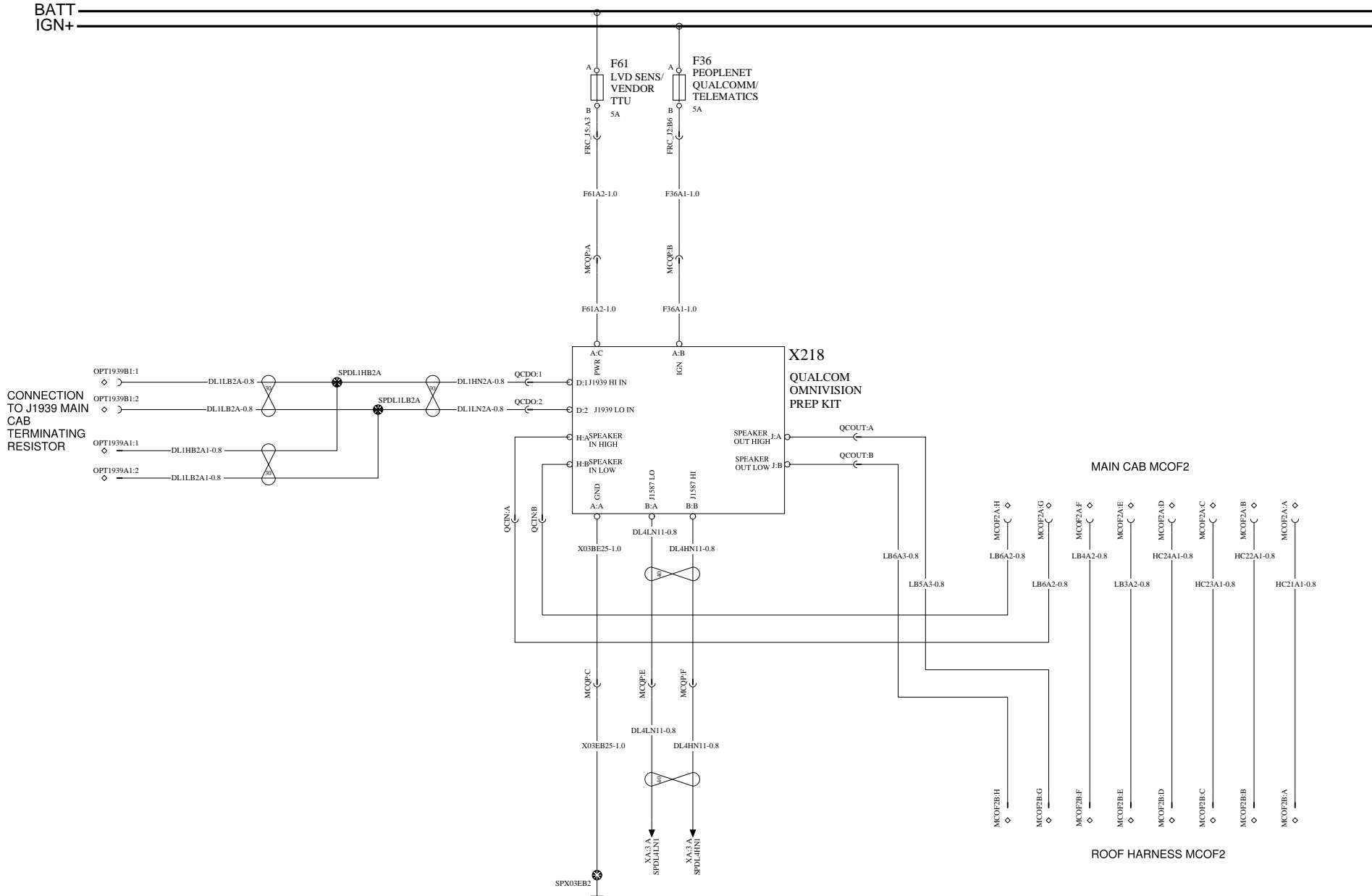
BATT
IGN



CONNECTION TO J1939 MAIN CAB TERMINATING RESISTOR

A175
Control Unit, TESP,
(Telematics Service Platform)

TROUGH HARNESS ONLY USED FOR SLEEPERS
FOR DAYCABS, PND_socket CONNECTS TO
PEOPLENET POWER CONNECTOR A175.A.

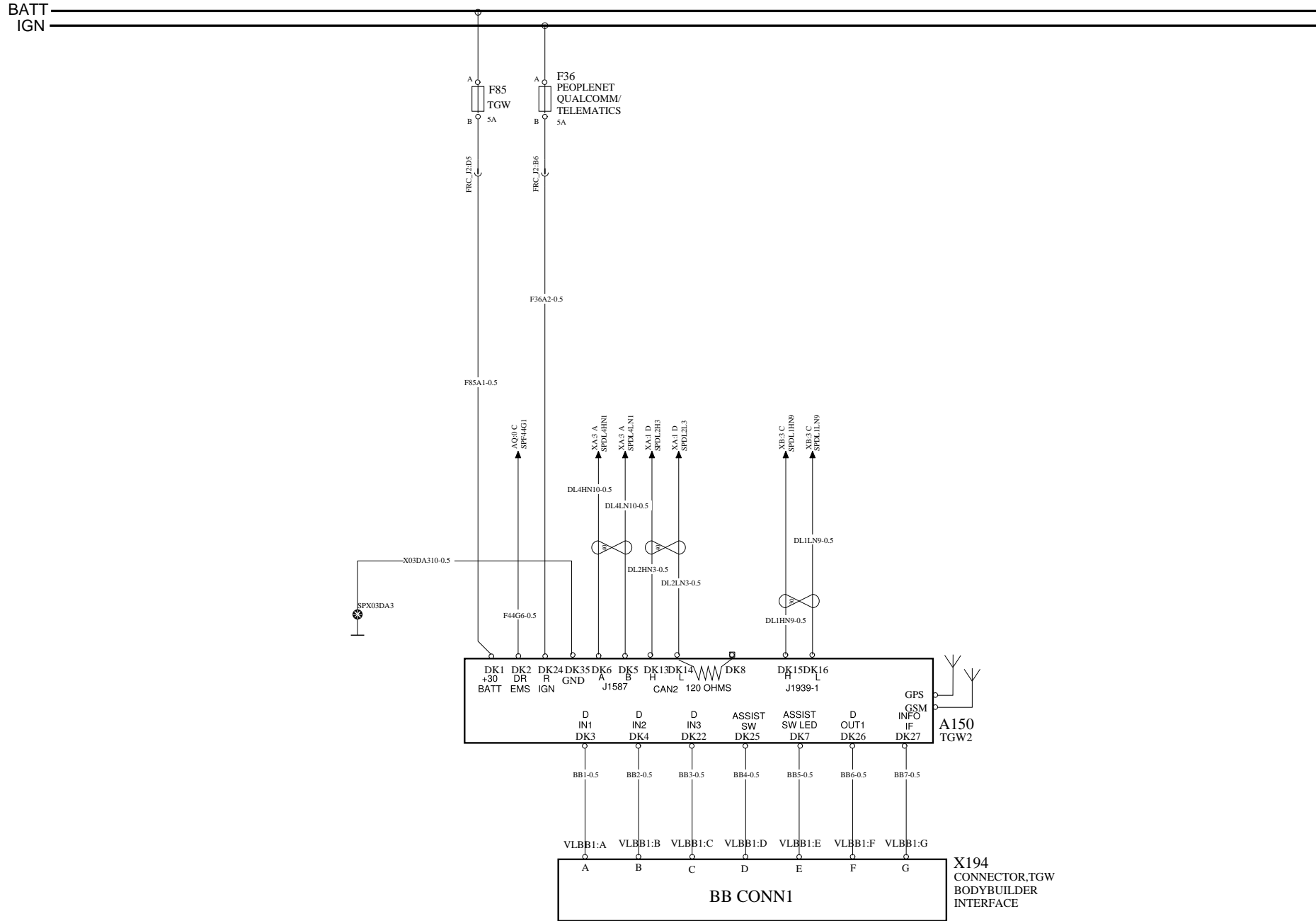


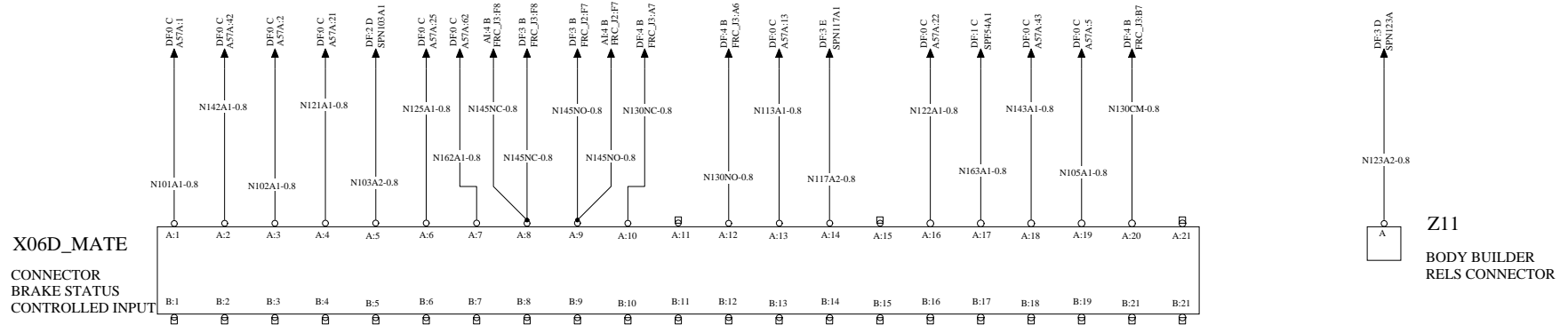
CONNECTION TO J1939 MAIN CAB TERMINATING RESISTOR

X218
QUALCOM OMNIVISION PREP KIT

MAIN CAB MCOF2

ROOF HARNESS MCOF2



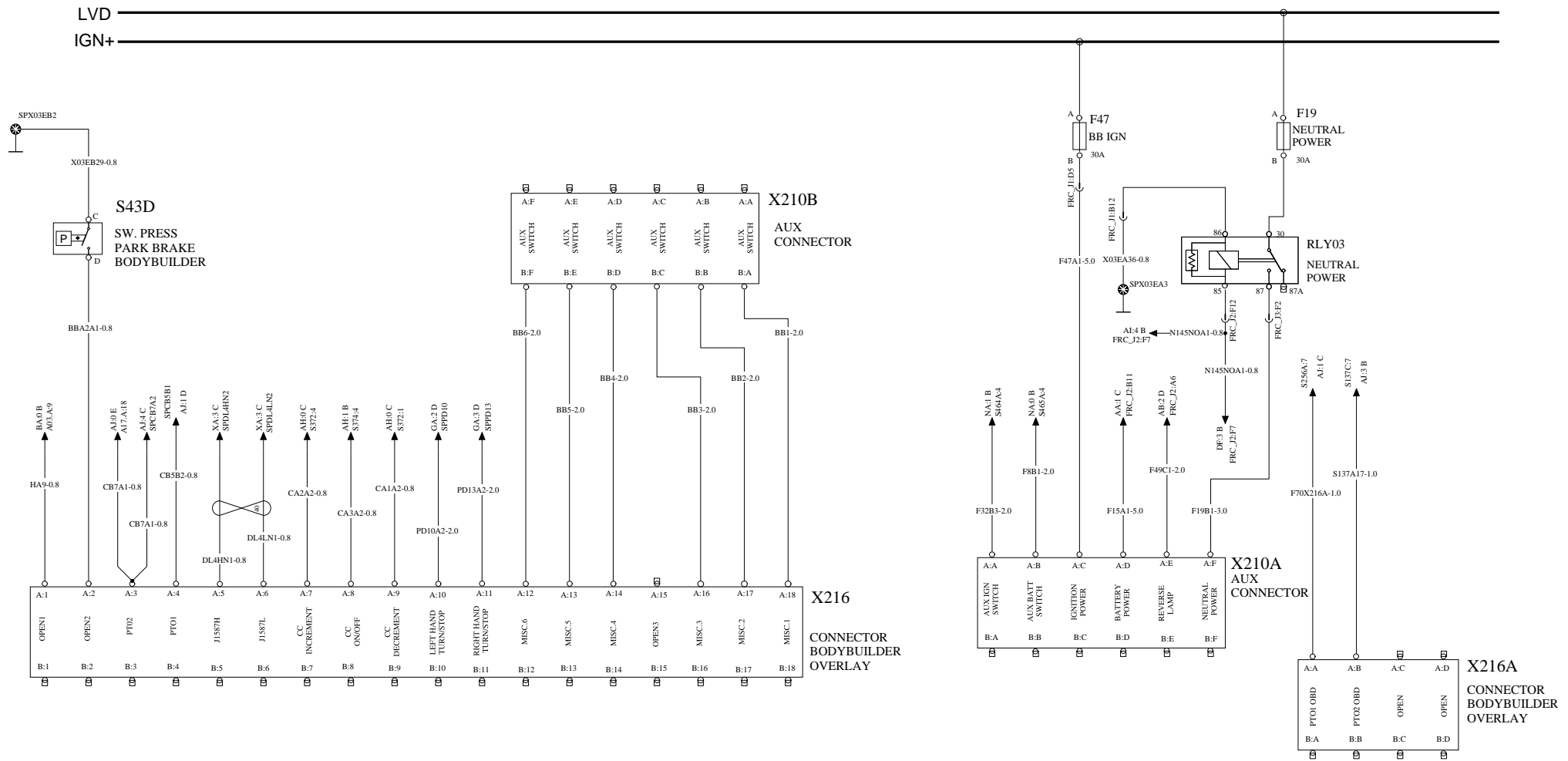


X06D_MATE
CONNECTOR
BRAKE STATUS
CONTROLLED INPUT

Z11
BODY BUILDER
RELS CONNECTOR

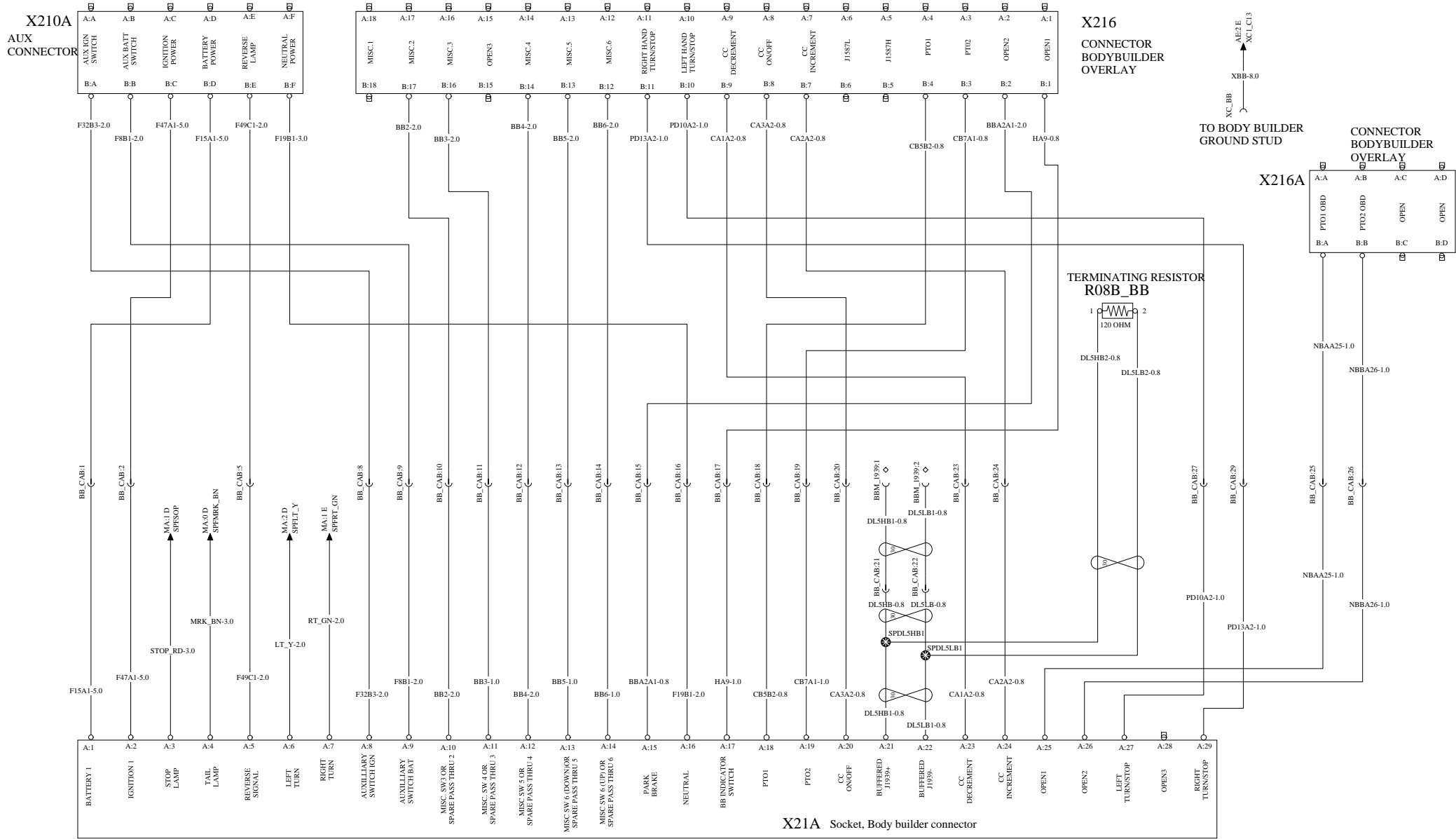
BODY BUILDER CAB INTERFACE

WIRING DIAGRAM: BI



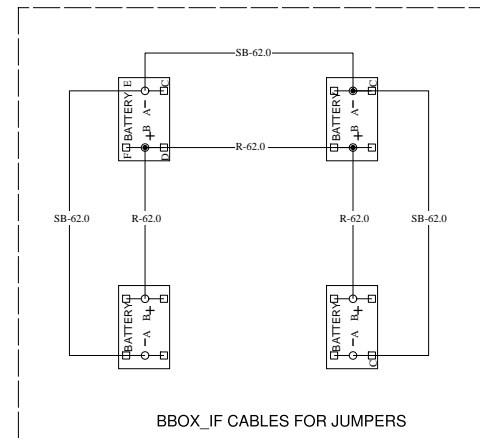
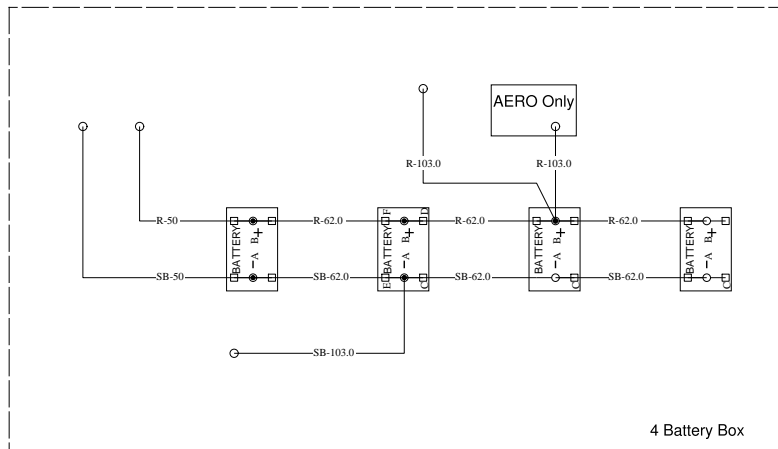
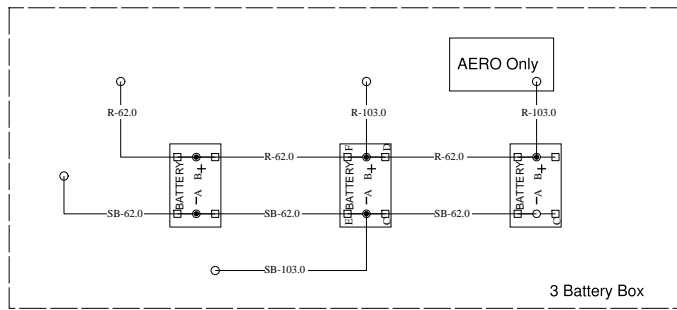
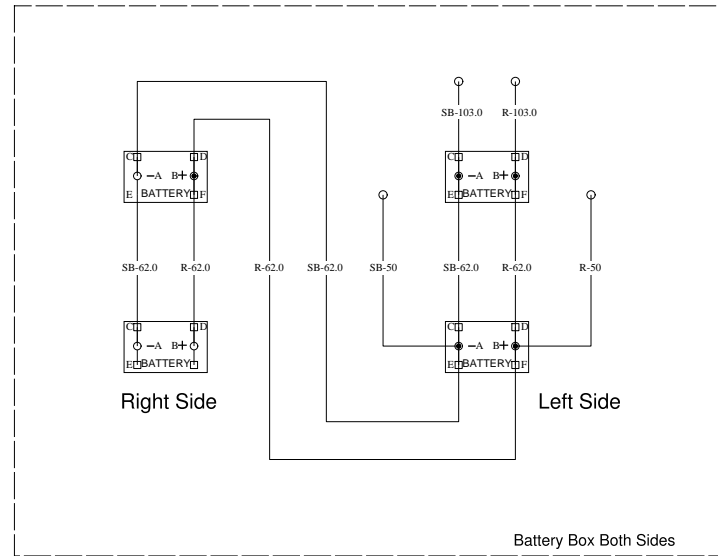
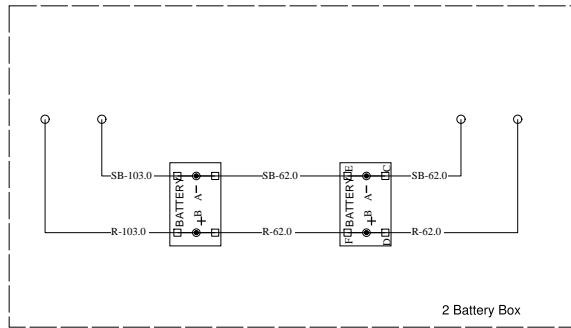
BODYBUILDER BODYLINK

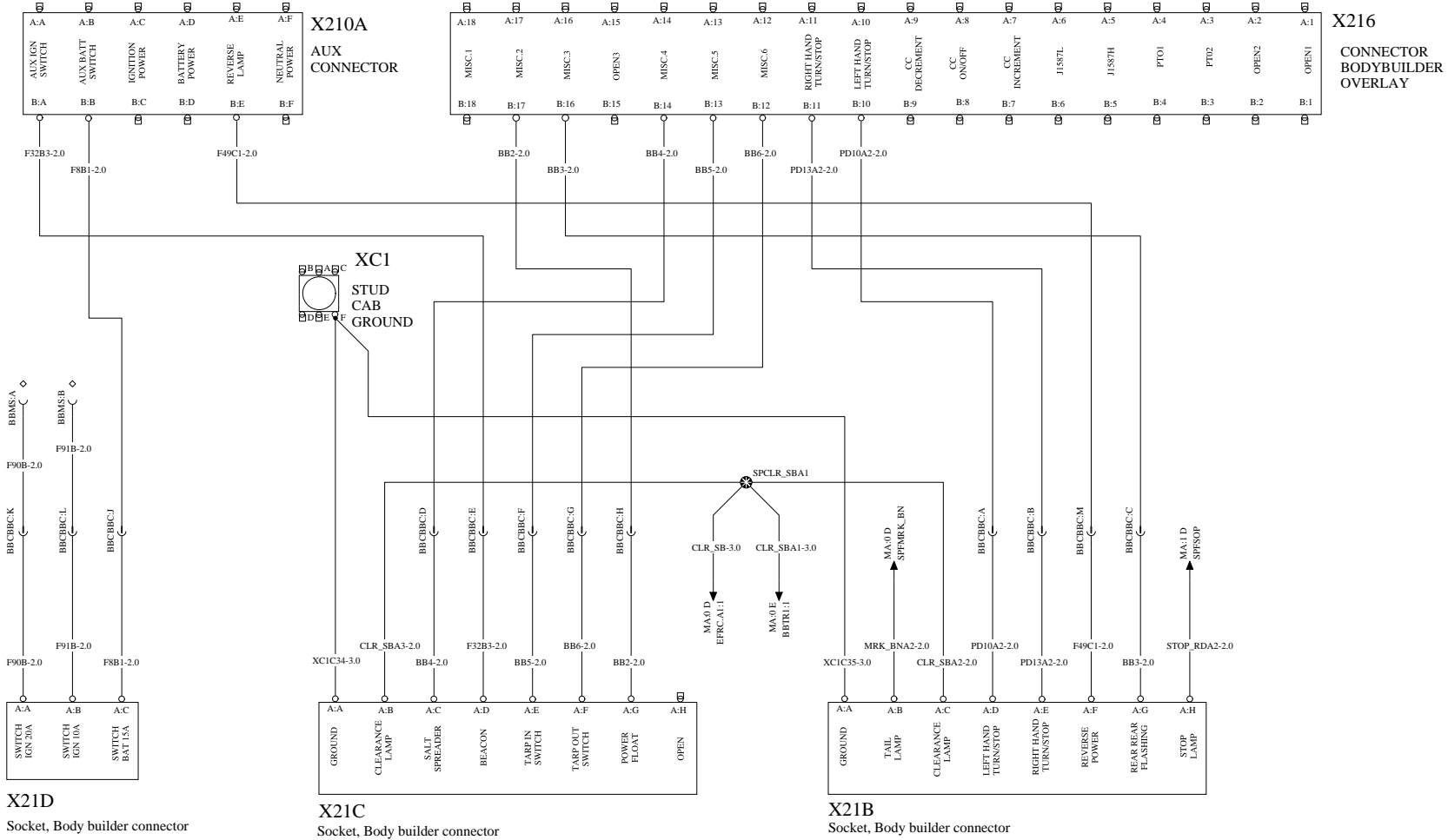
WIRING DIAGRAM: BK

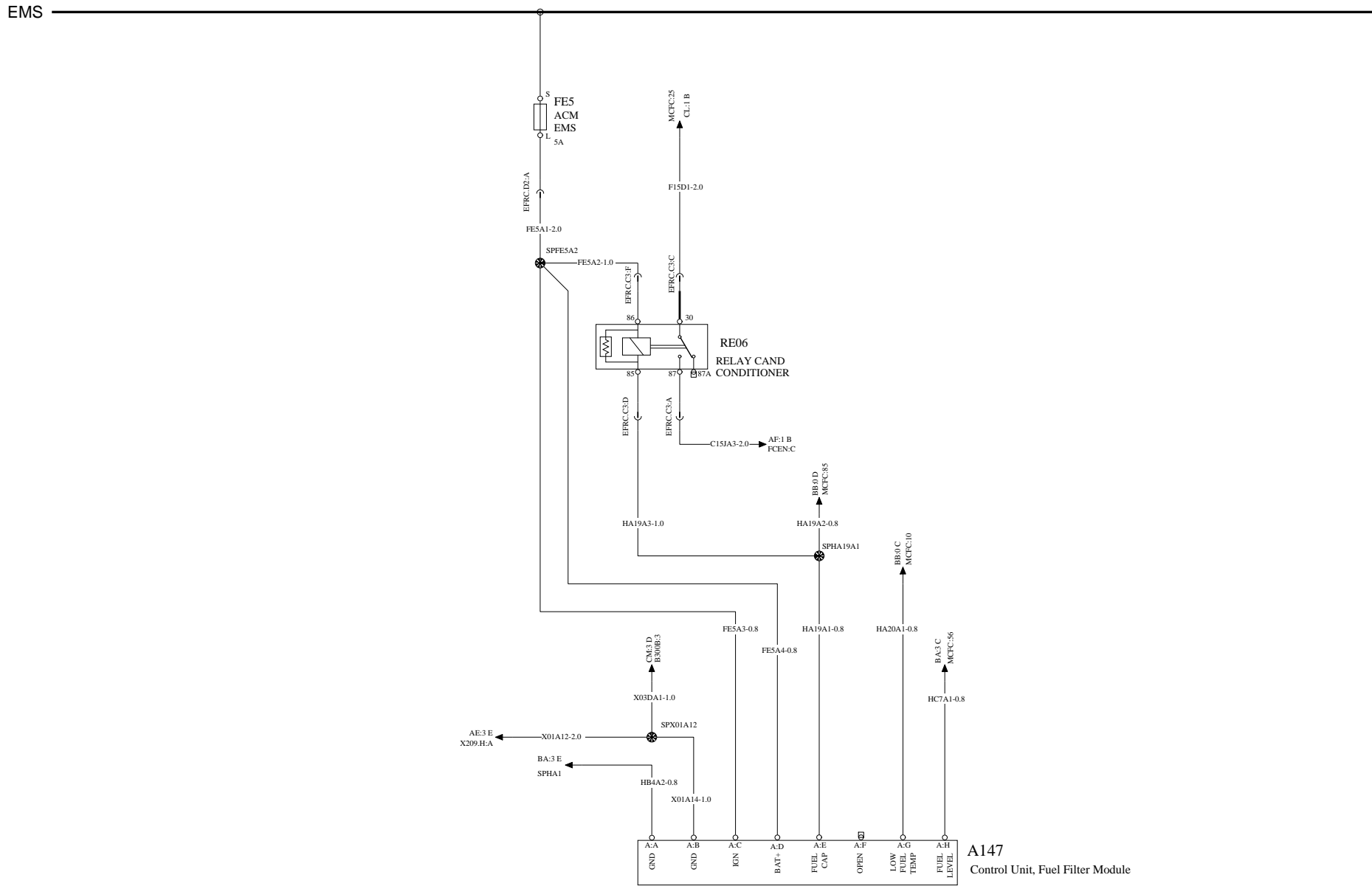


BATTERY BUSSING

WIRING DIAGRAM: BL

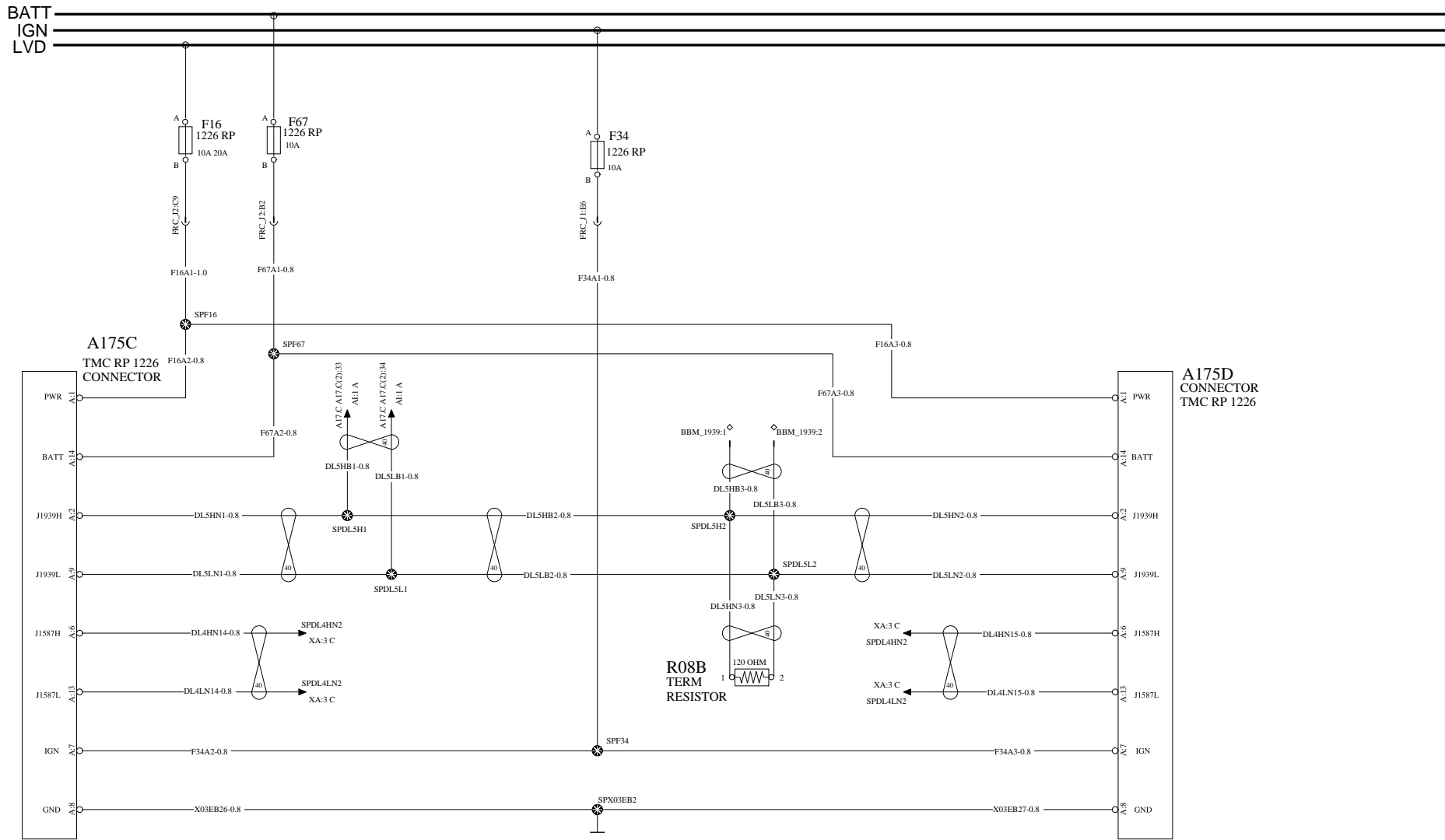






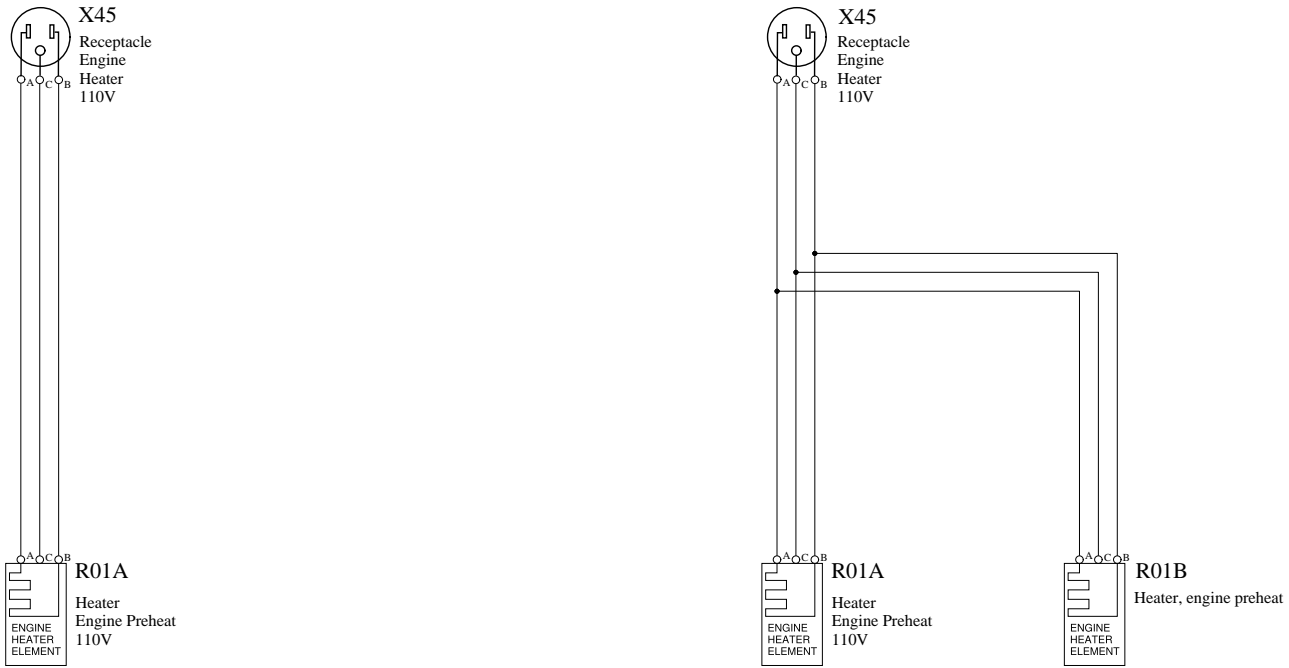
TMC RP 1226 CONNECTORS

WIRING DIAGRAM : BY



ENGINE HEATER

WIRING DIAGRAM: CA



Volvo Truck Corporation

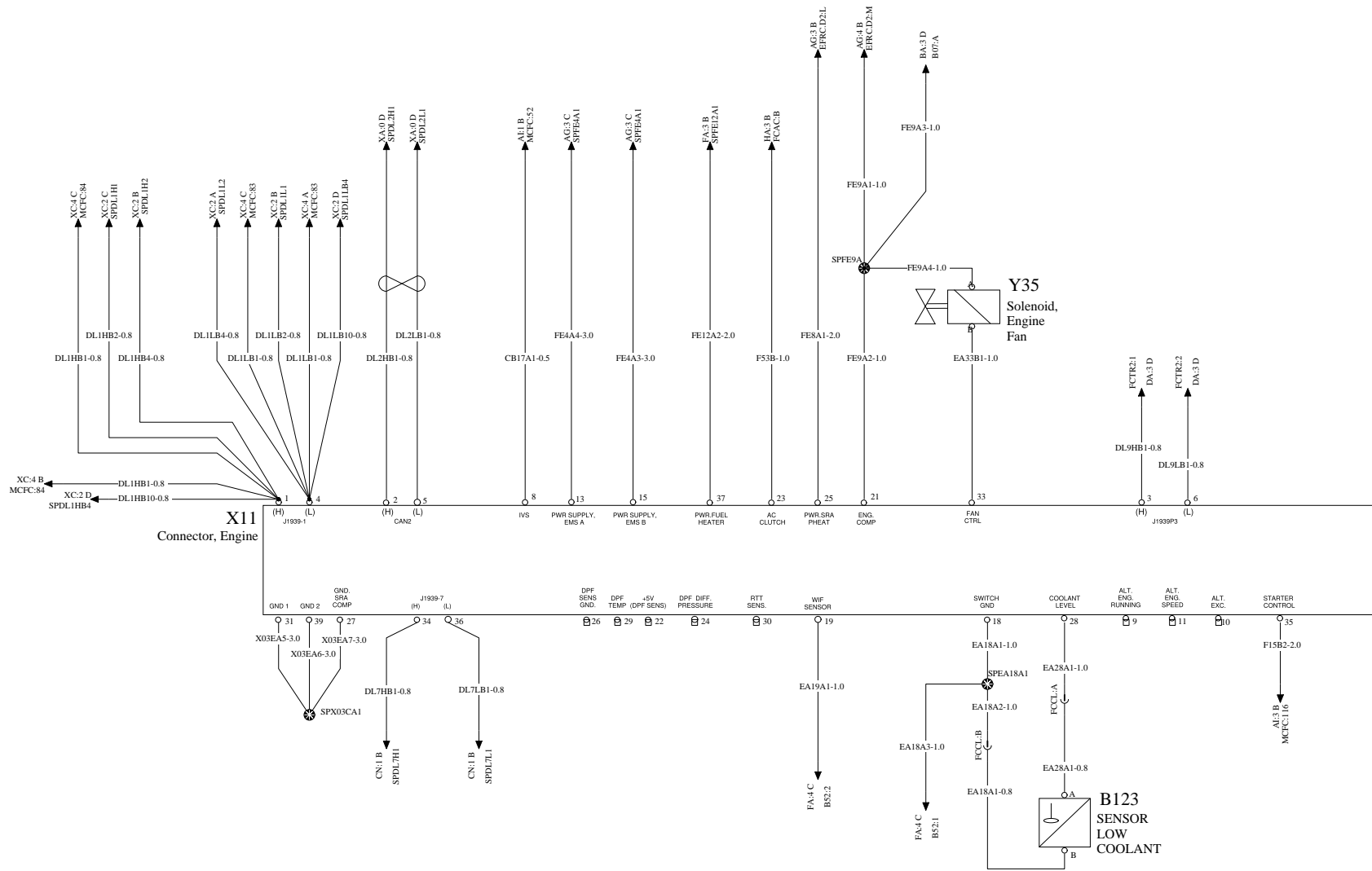
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 Document type
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 23970505

Issue
 02

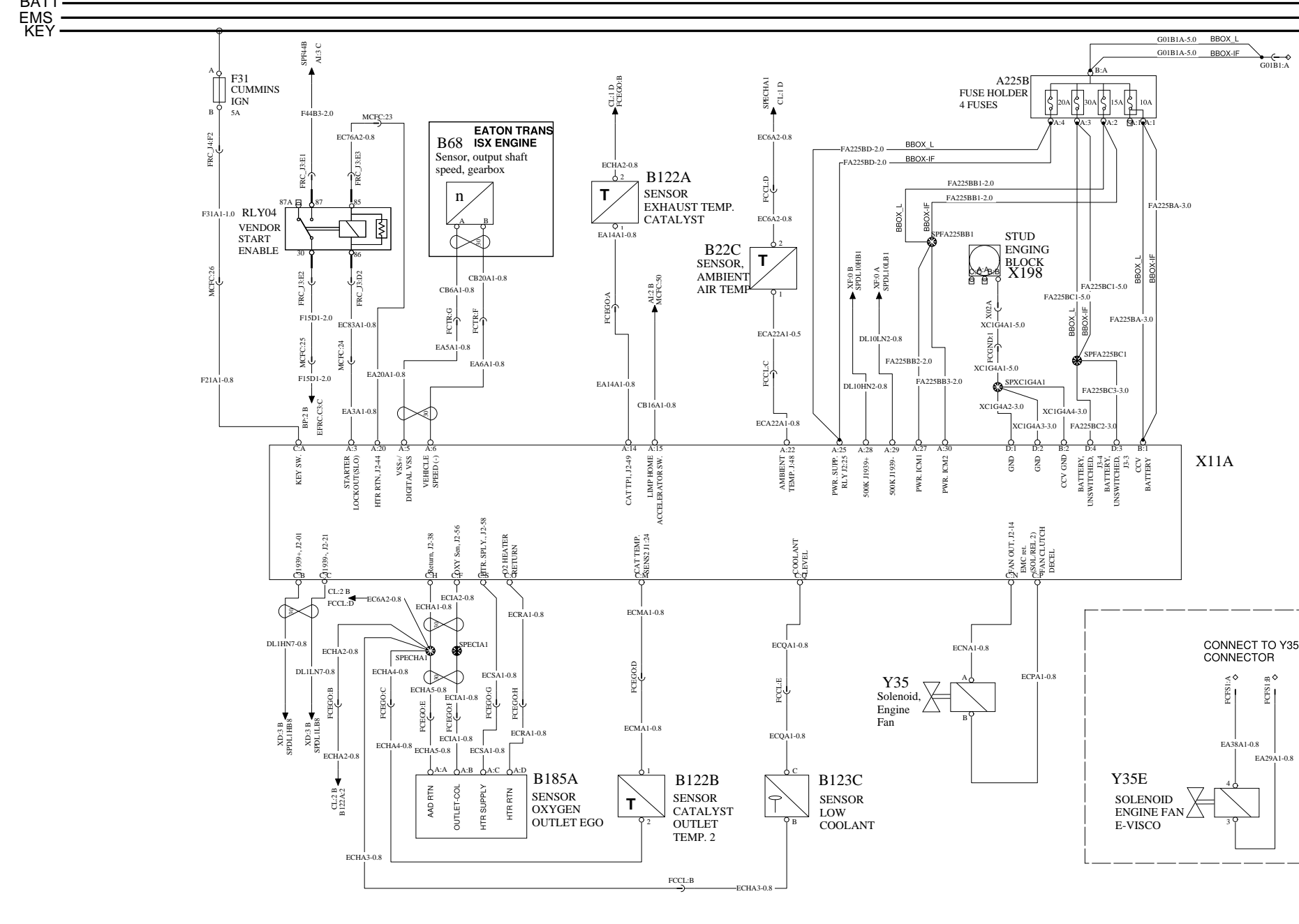
Volume
 1 (1)

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ENGINE CONTROL ISX-G

WIRING DIAGRAM: CL



CONNECTS DIRECTLY TO THE BATTERY OR SWITCHED SIDE OF BATTERY DISCONCENT SWITCH

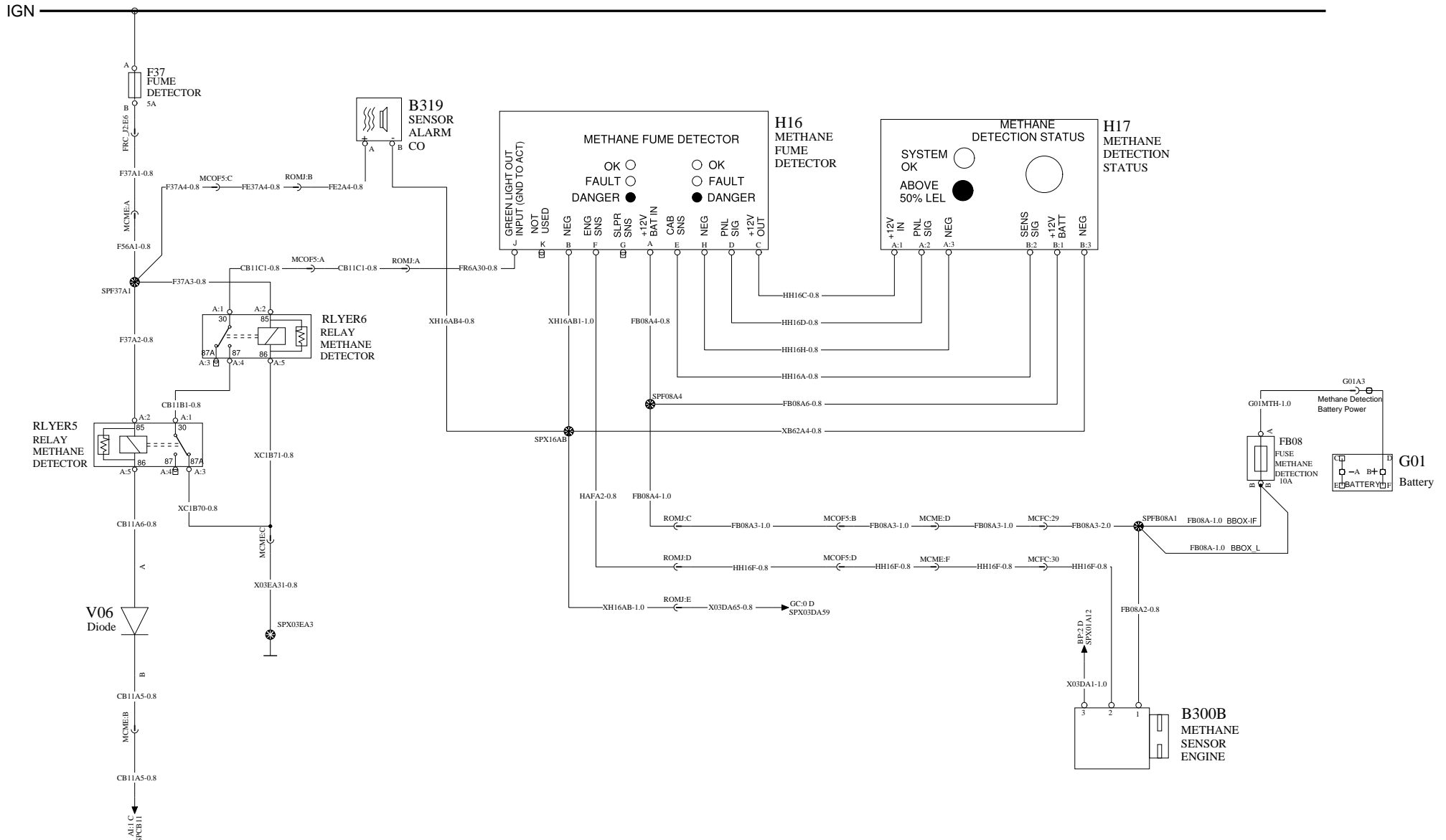
CONNECT TO Y35 CONNECTOR

Y35E
SOLENOID ENGINE FAN E-VISCO

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	WIRING DIAGRAM, 12V MACK CONVENTIONAL	23970505	02	1 (1)	28 (104)
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	PRODUCT SCHEMATIC				

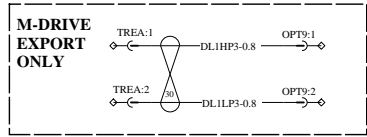
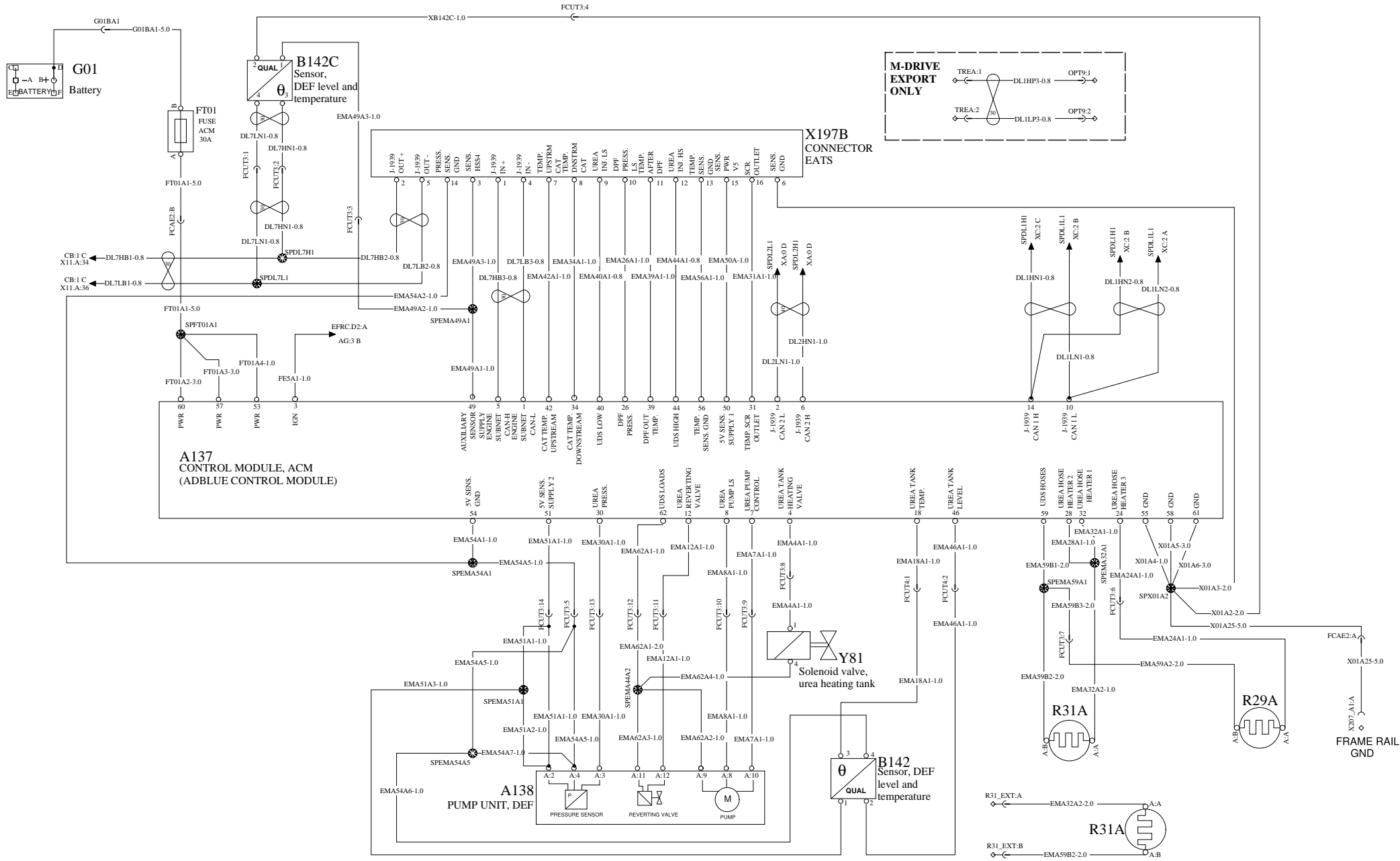
METHANE DETECTION

WIRING DIAGRAM: CM



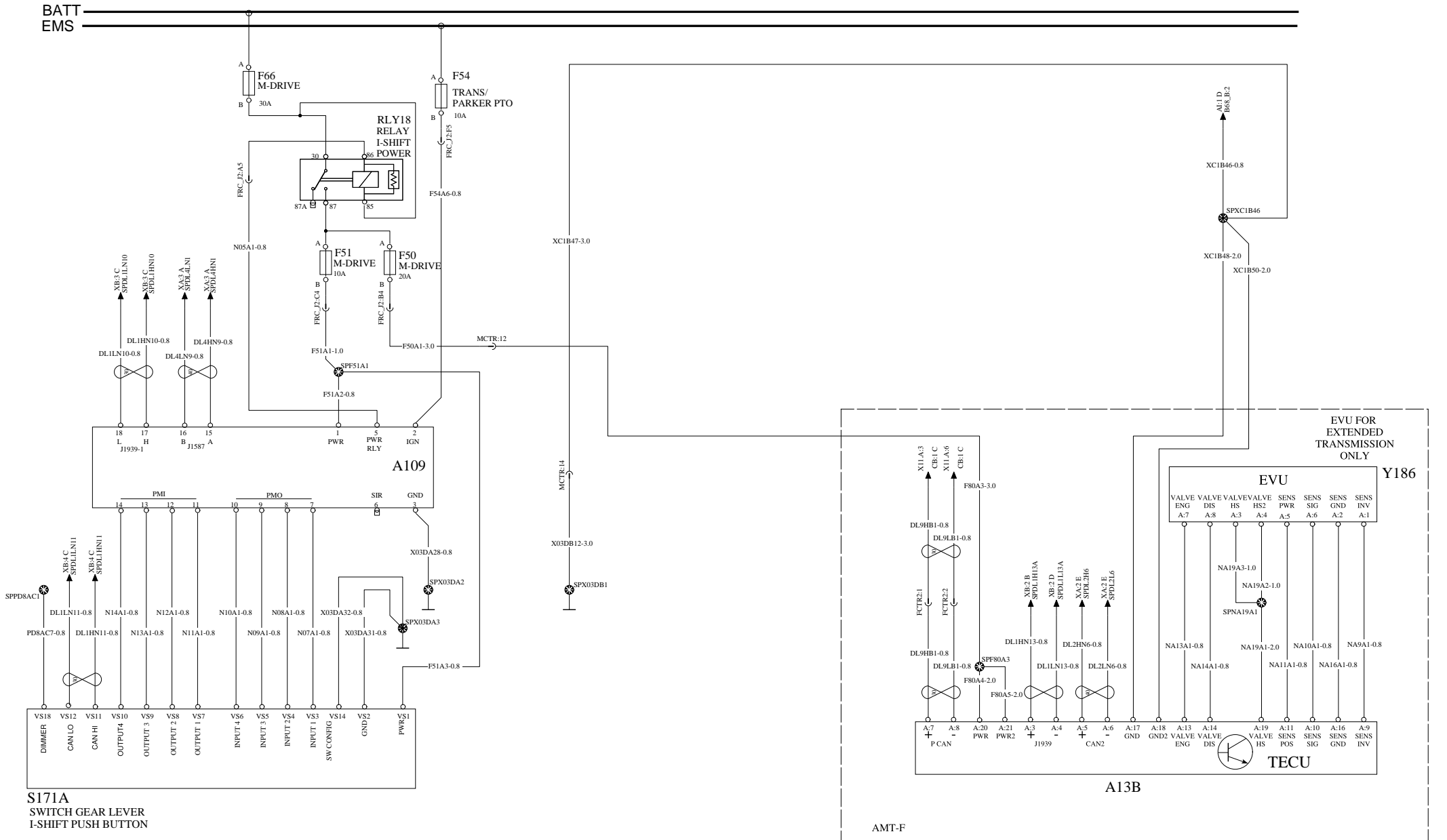
UREA DOSING SYSTEM - MACK ENGINE OBD 2018

WIRING DIAGRAM: CN



TRANSMISSION MDRIVE

WIRING DIAGRAM: DA



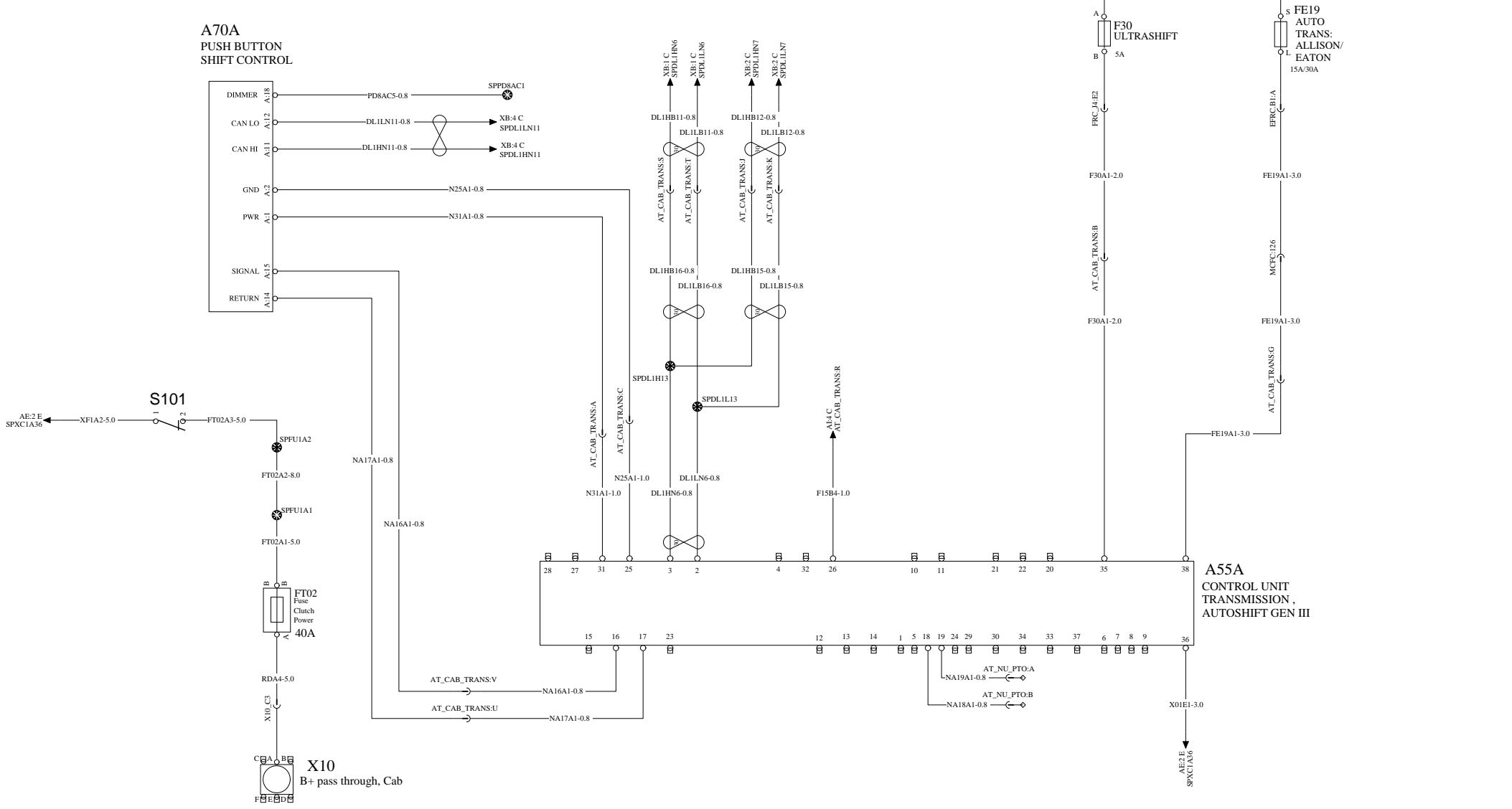
TRANSMISSION CONTROL - ULTRASHIFT

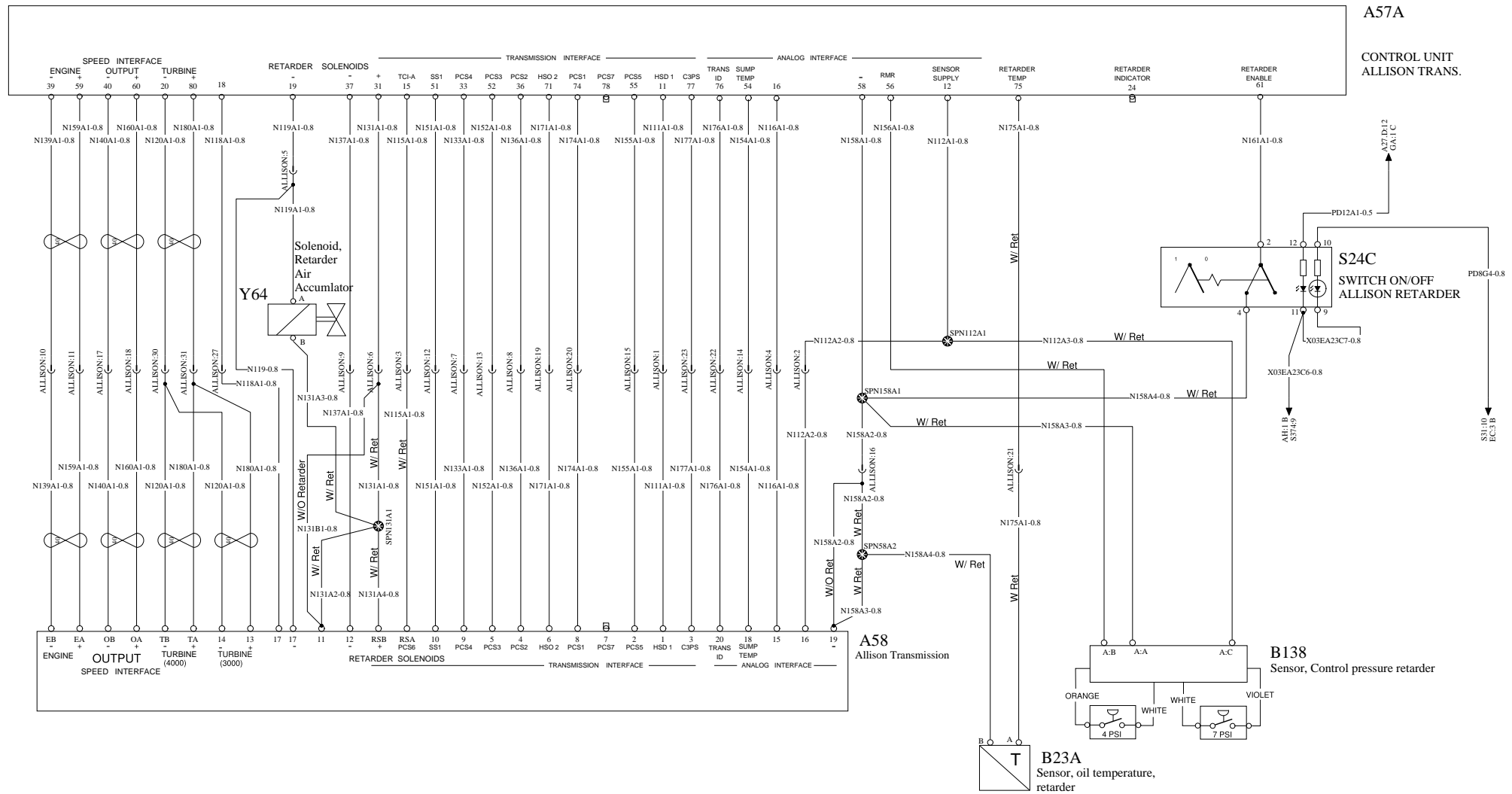
WIRING DIAGRAM: DB

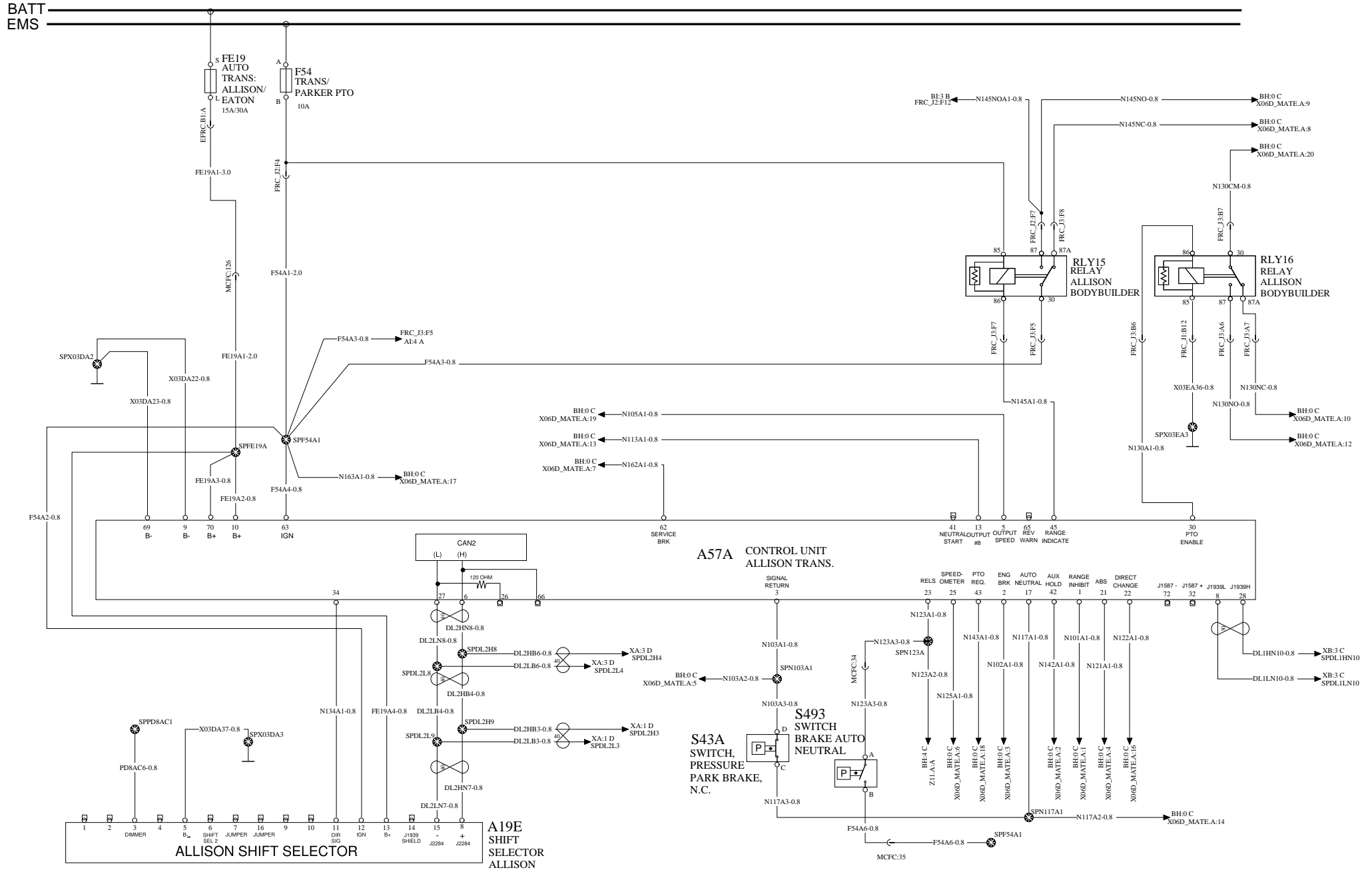
BATT
KEY

A70A
PUSH BUTTON
SHIFT CONTROL

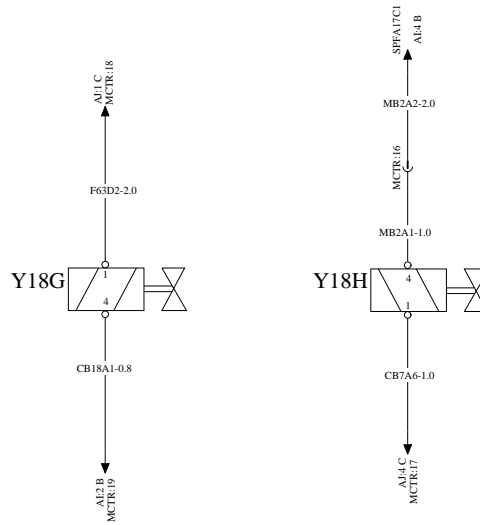
A55A
CONTROL UNIT
TRANSMISSION,
AUTOSHIFT GEN III







EMS



A

A

B

B

C

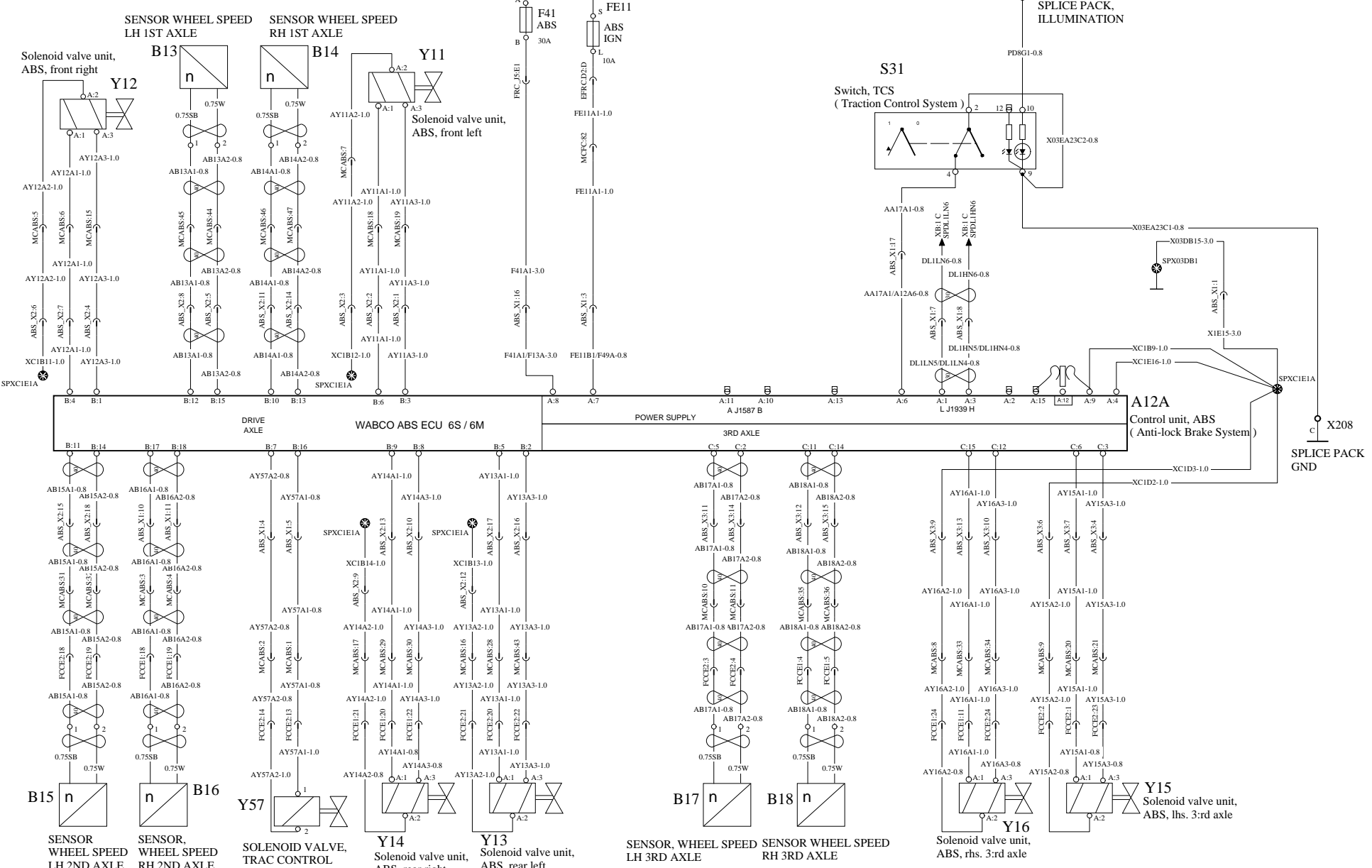
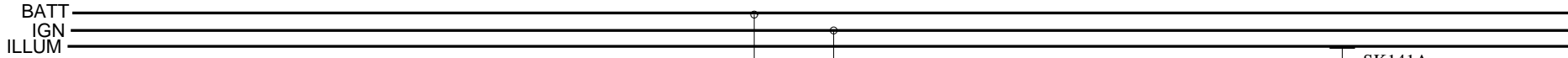
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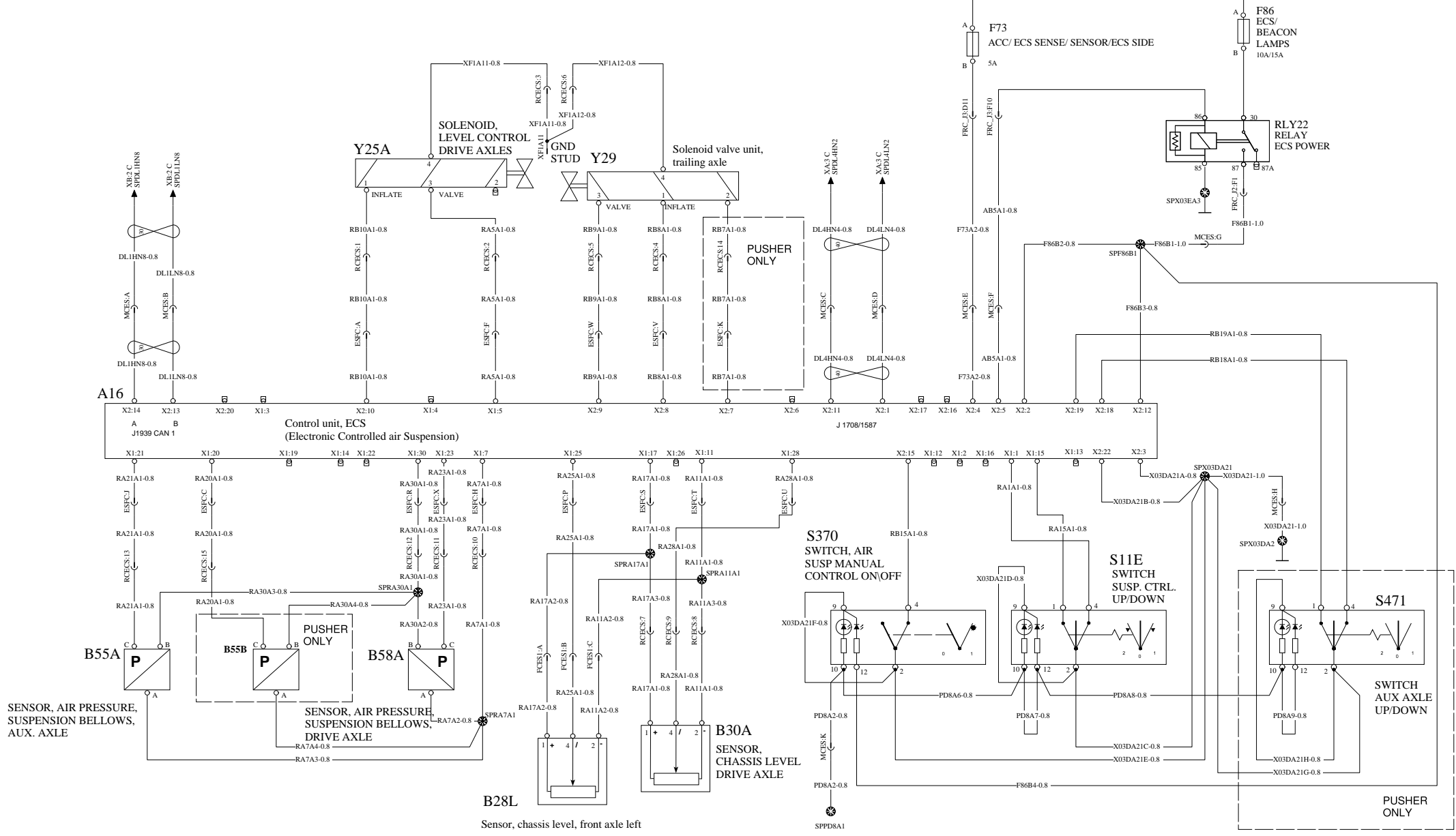
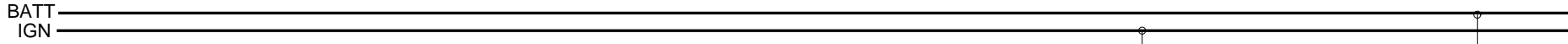
D

D

E

E



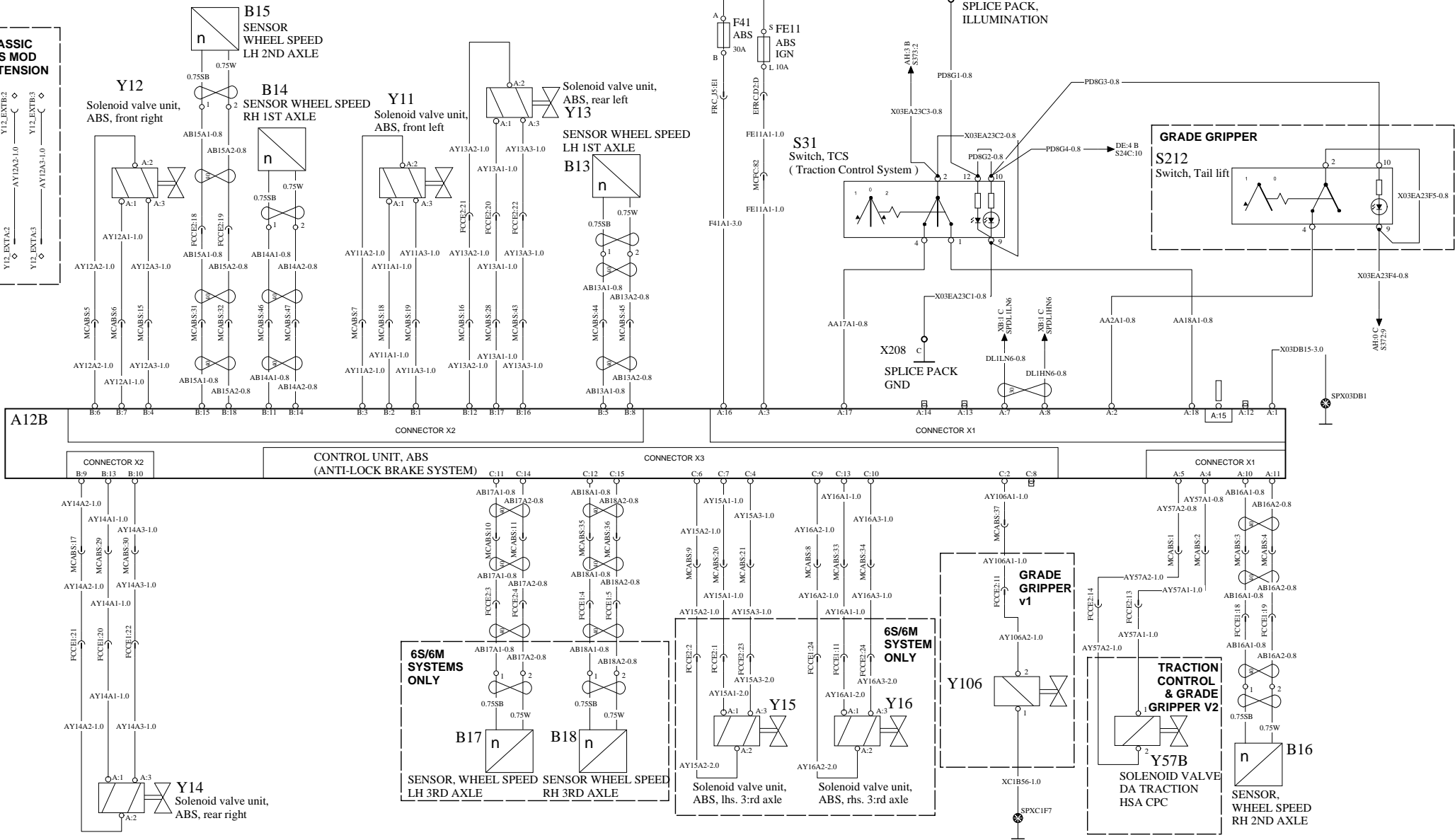
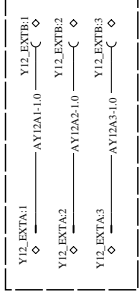


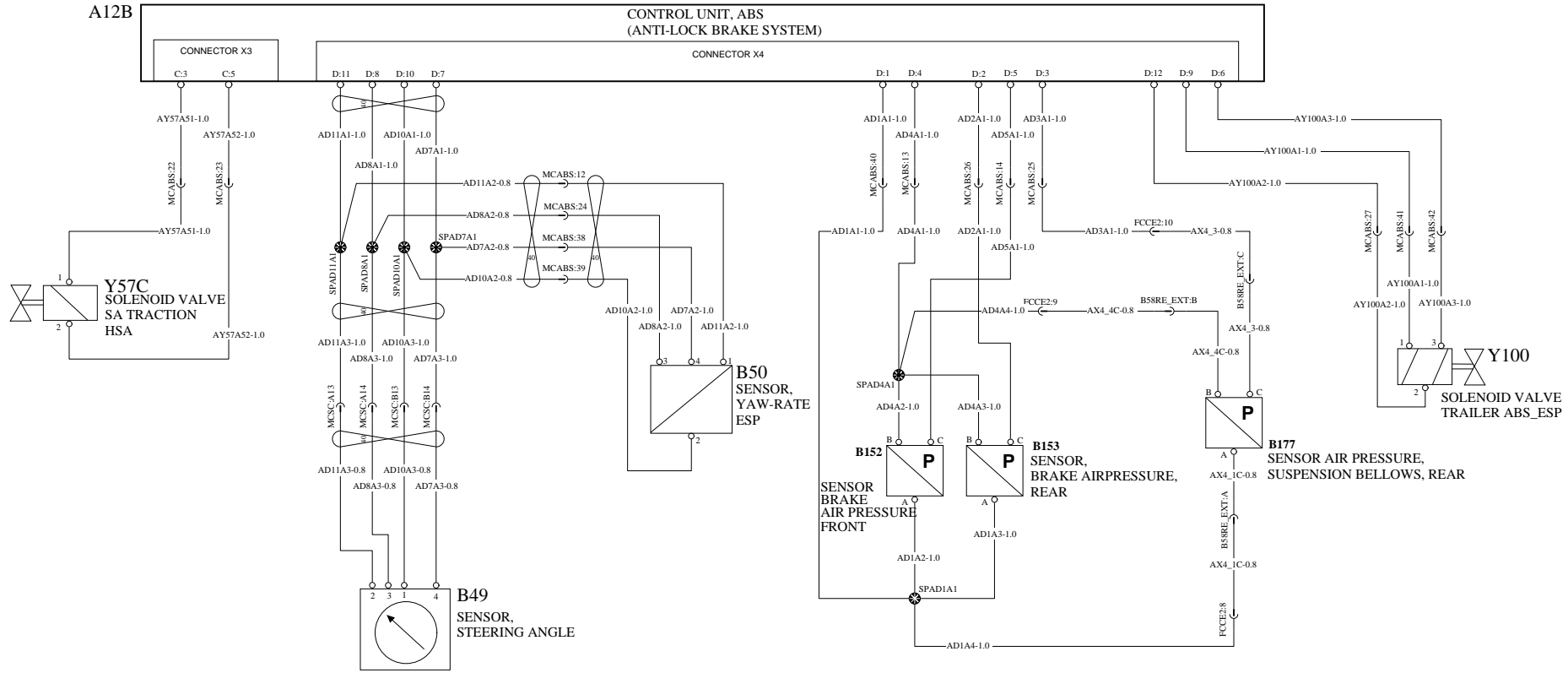
ABS CONTROL BENDIX

WIRING DIAGRAM: EC

BATT
IGN
ILLUM

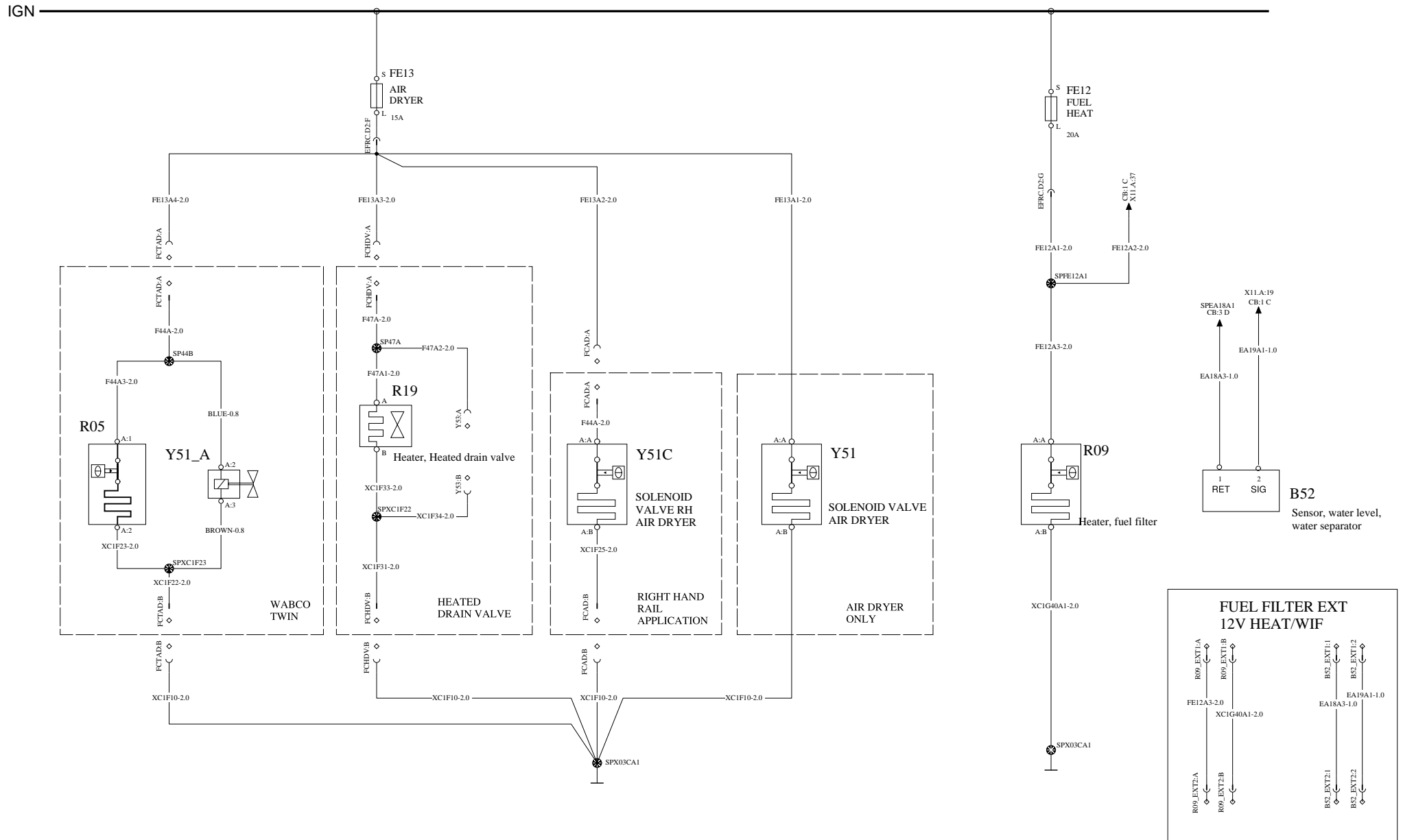
CLASSIC ABS MOD EXTENSION

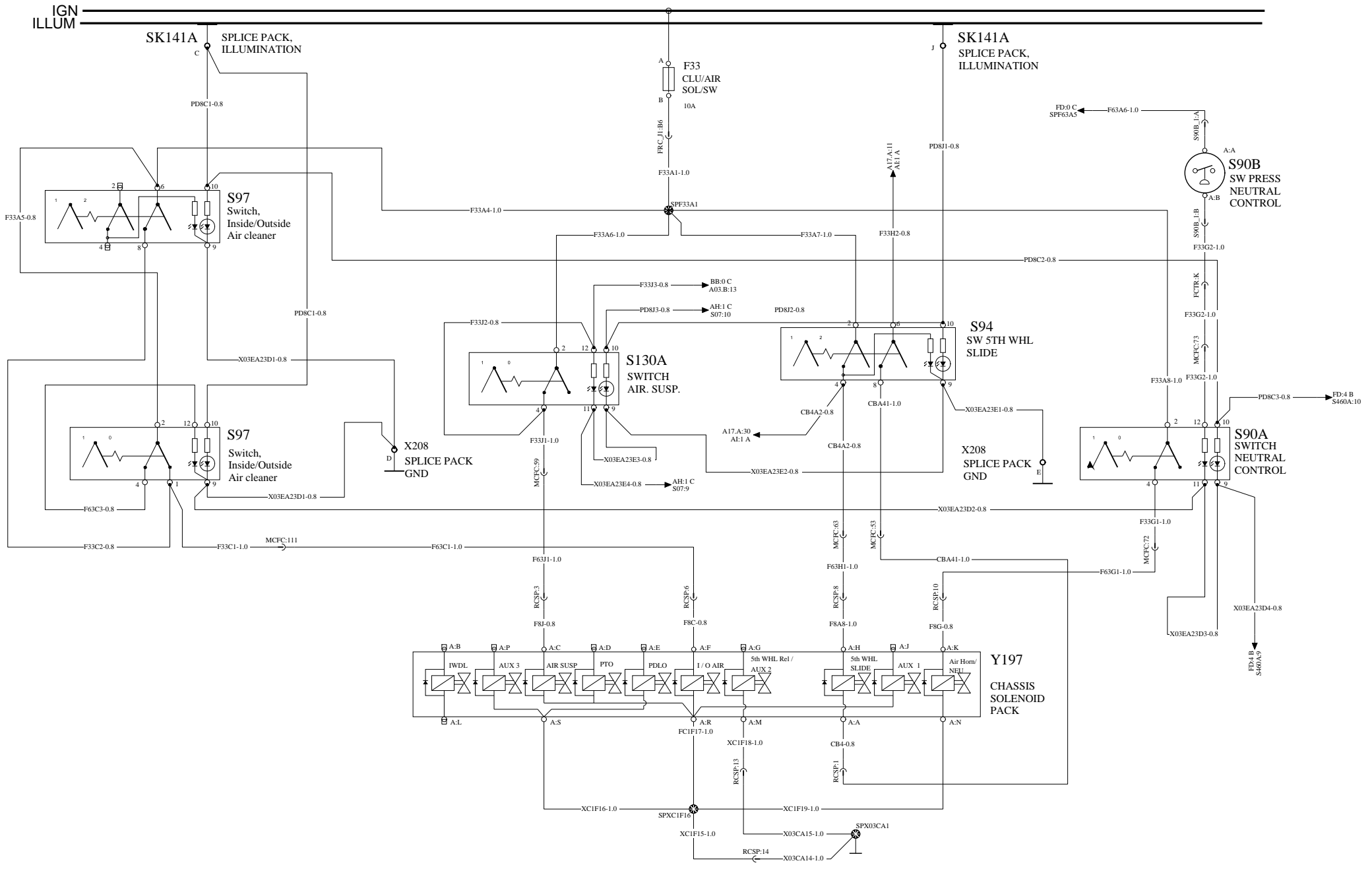


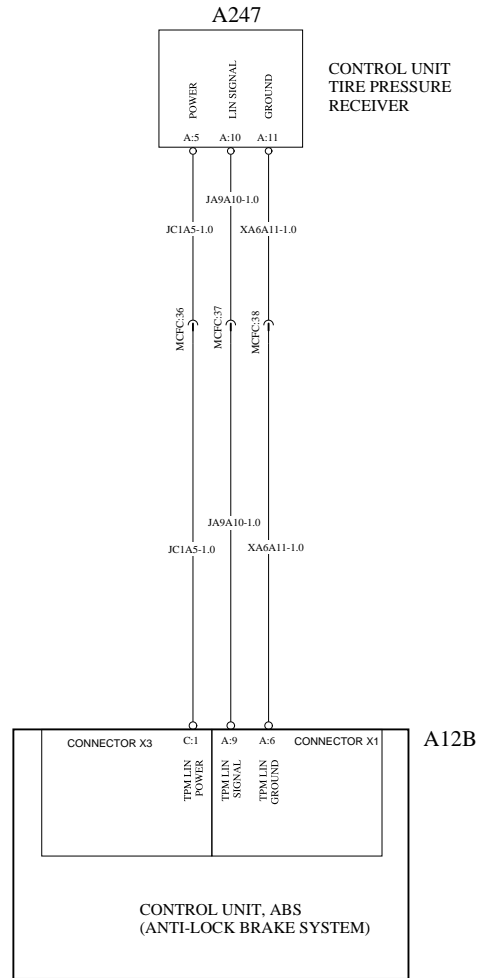


AIR DRYER/HEATED DRAIN VALVE

WIRING DIAGRAM: FA

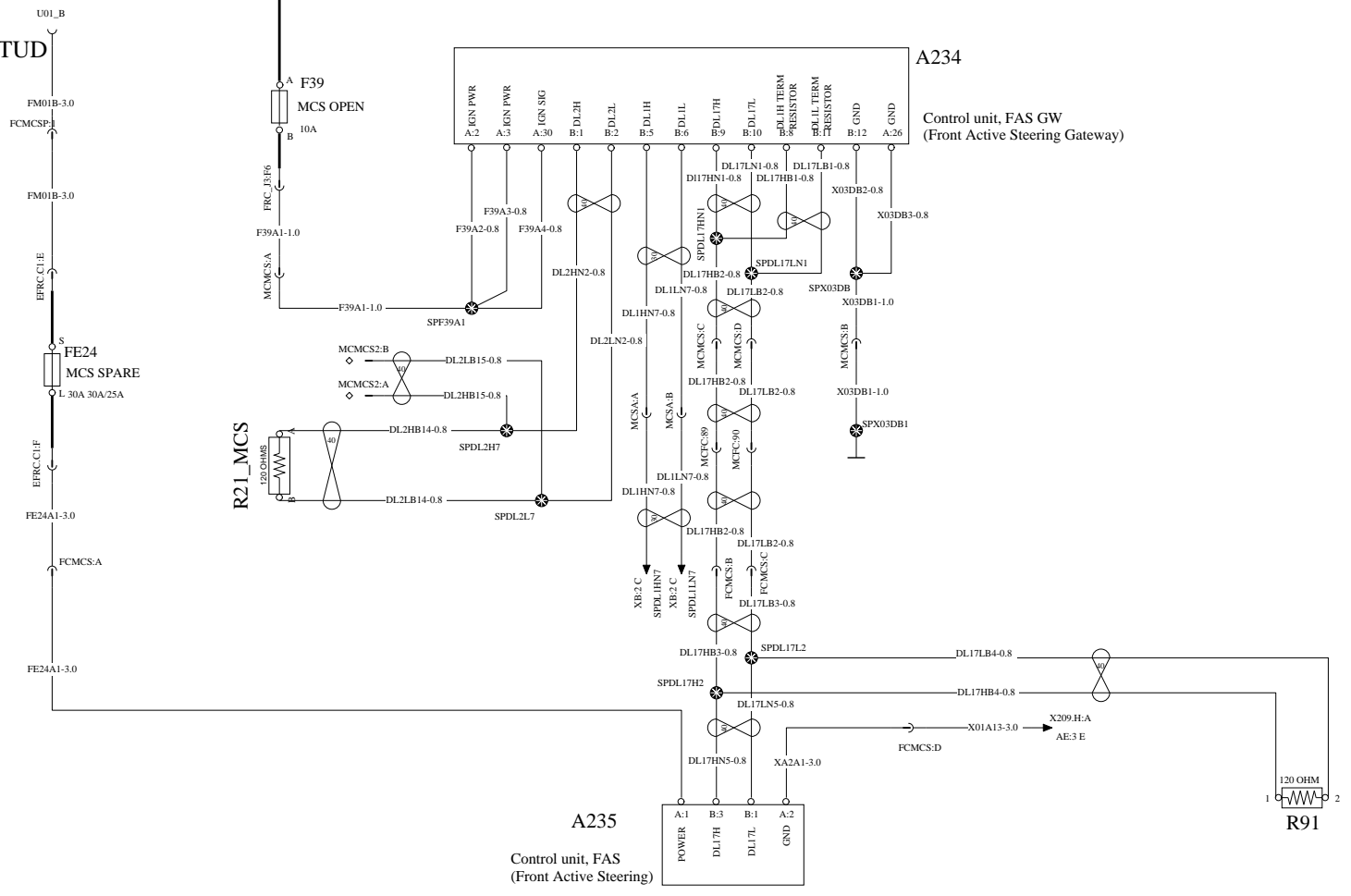


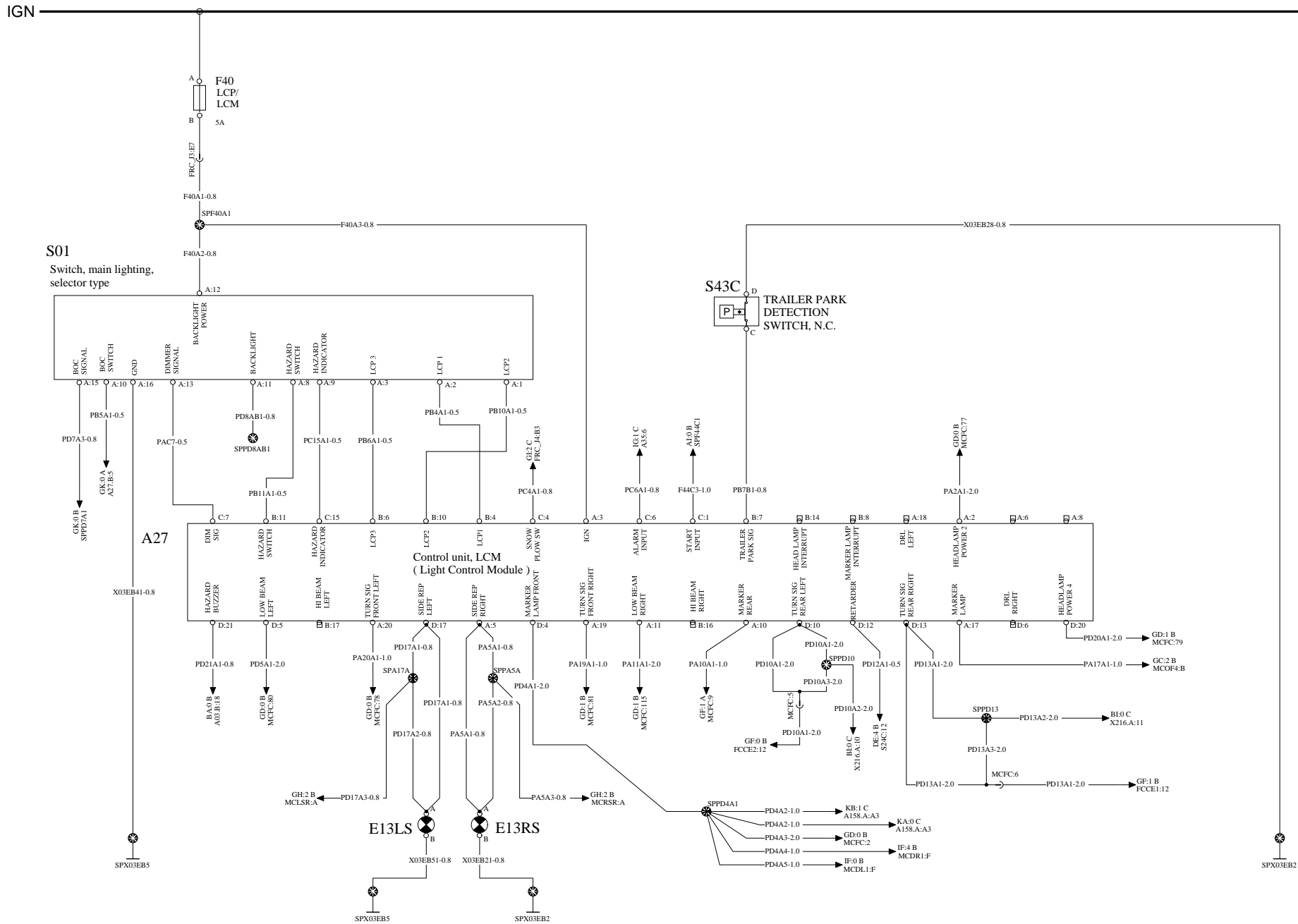




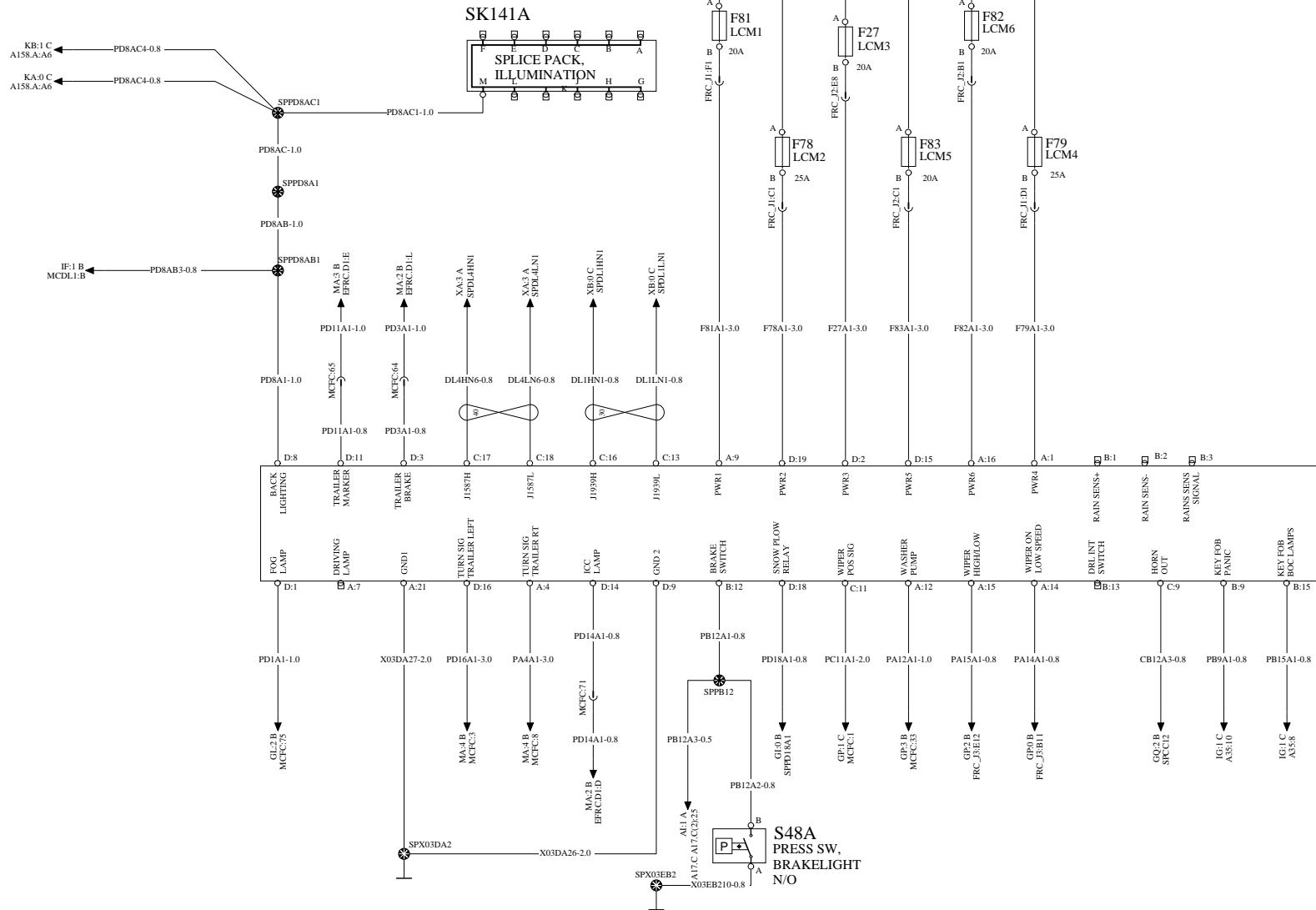
IGN

TO EFRC
POWER STUD

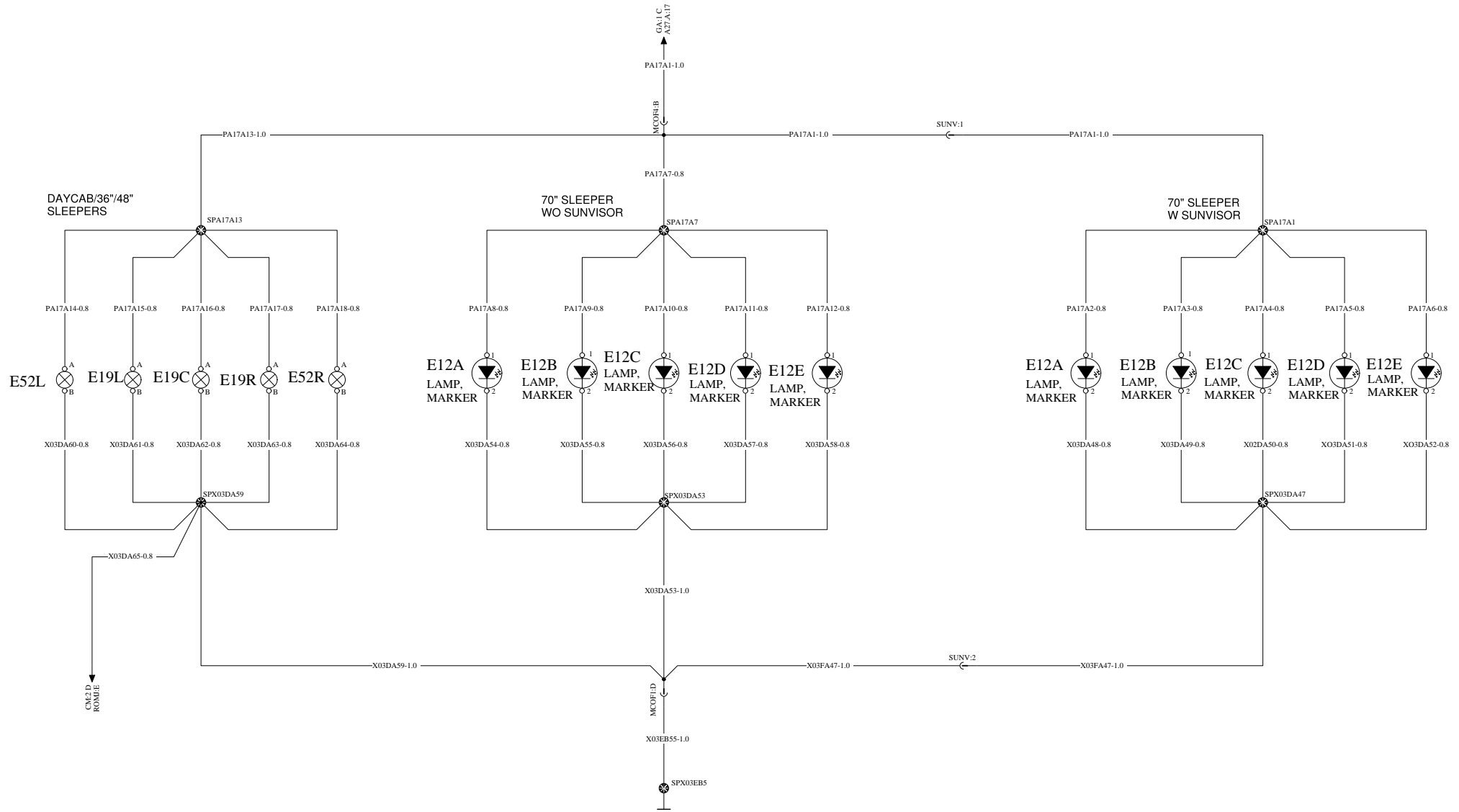




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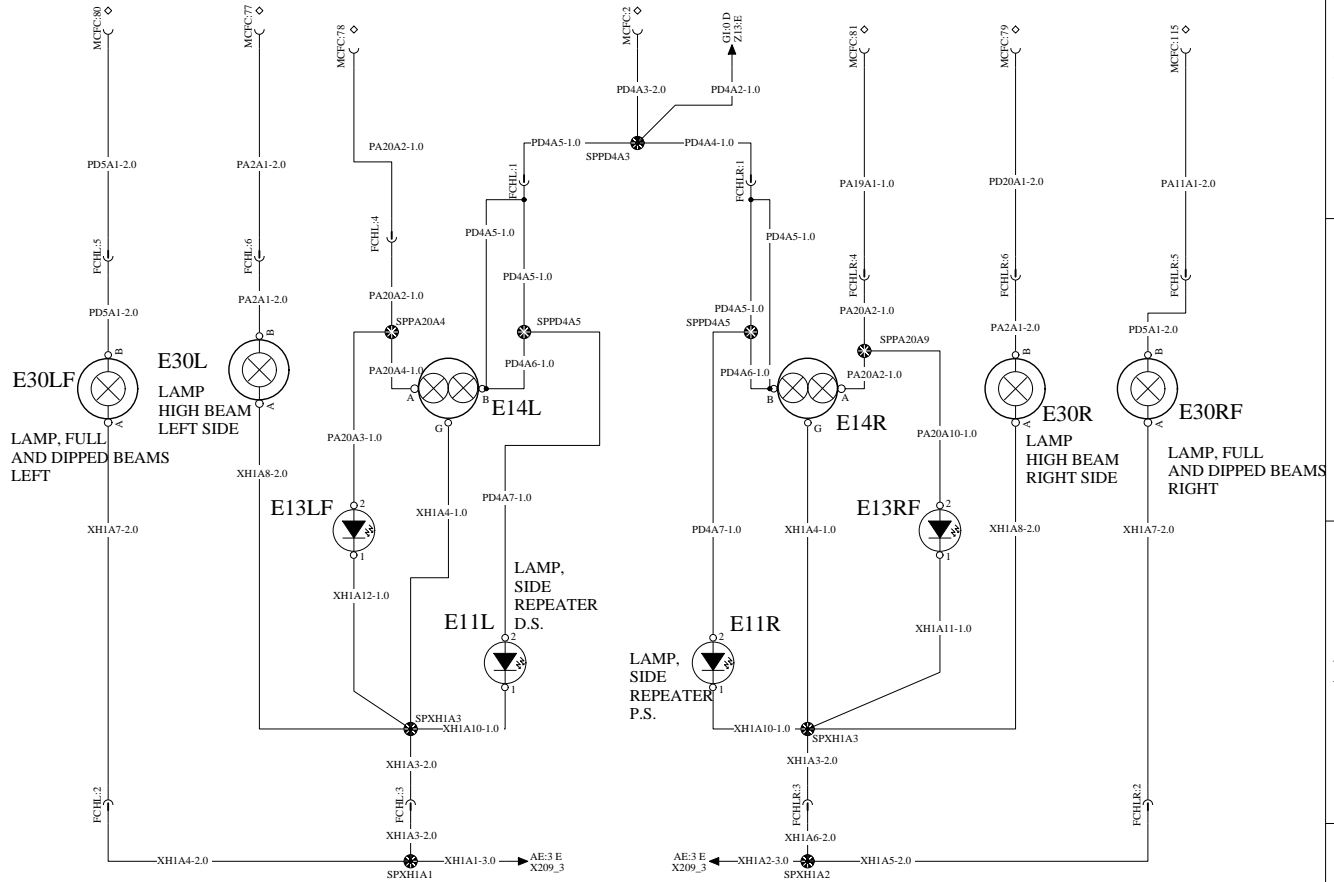
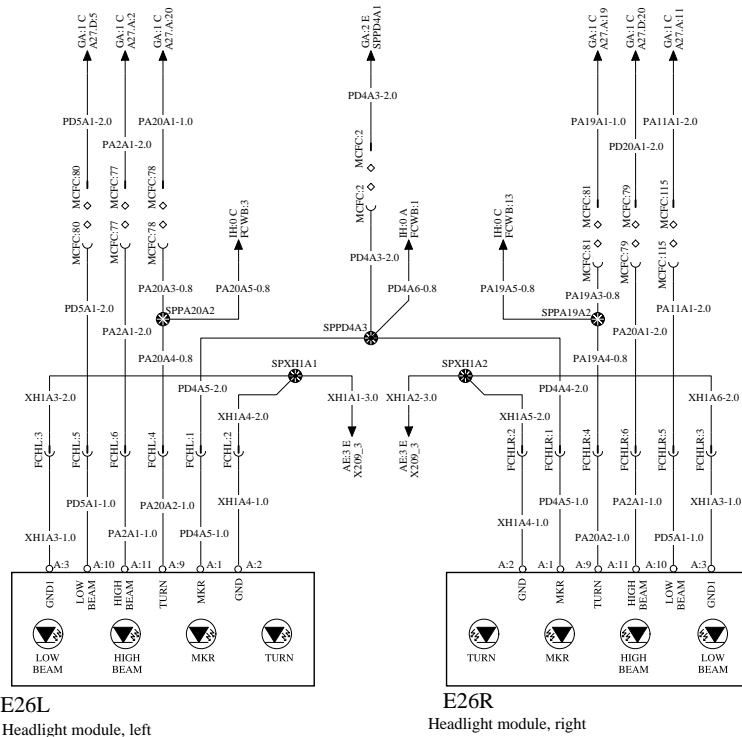


A27
Control unit, LCM
(Light Control Module)



DRIVING/SIGNAL LIGHTS: AERO OR CONSTRUC

WIRING DIAGRAM: GD

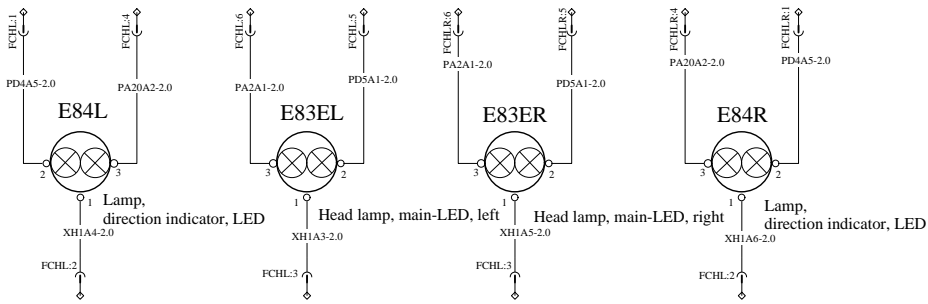


LIGHTING FORWARD SIGNAL: CLASSIC

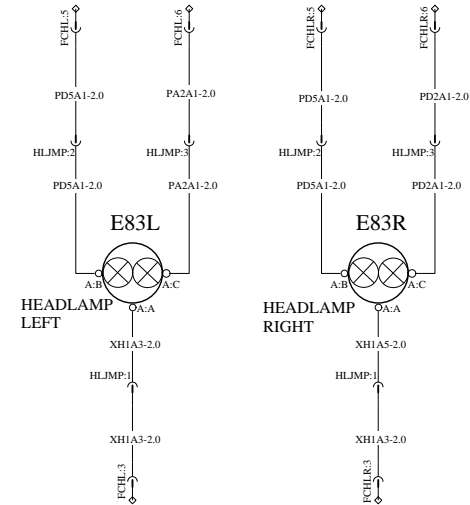
WIRING DIAGRAM: GE

SEE SHEET GD FOR CONNECTIONS TO FRONT CHASSIS

LED

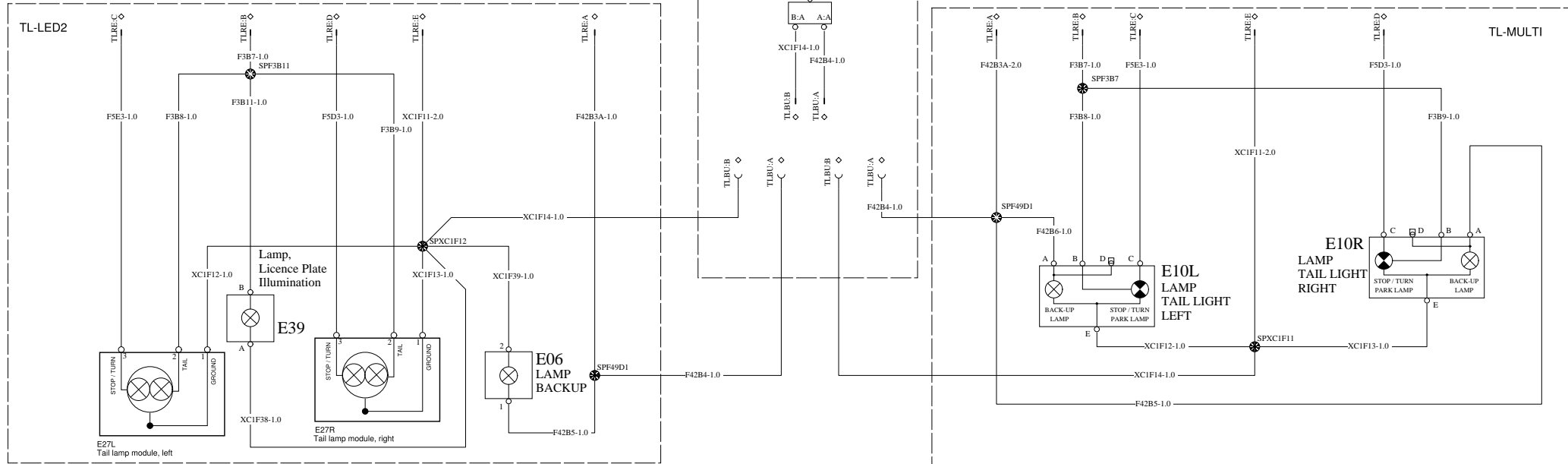
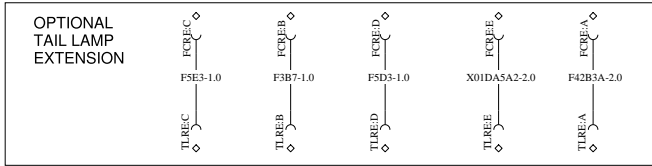
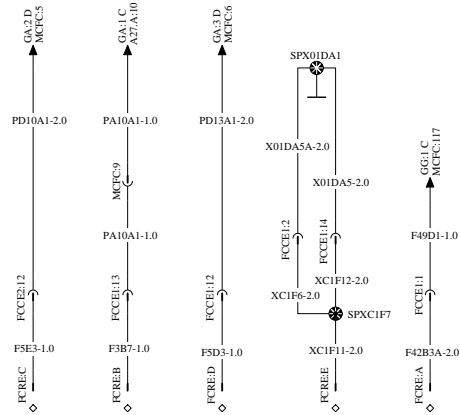


HALOGEN



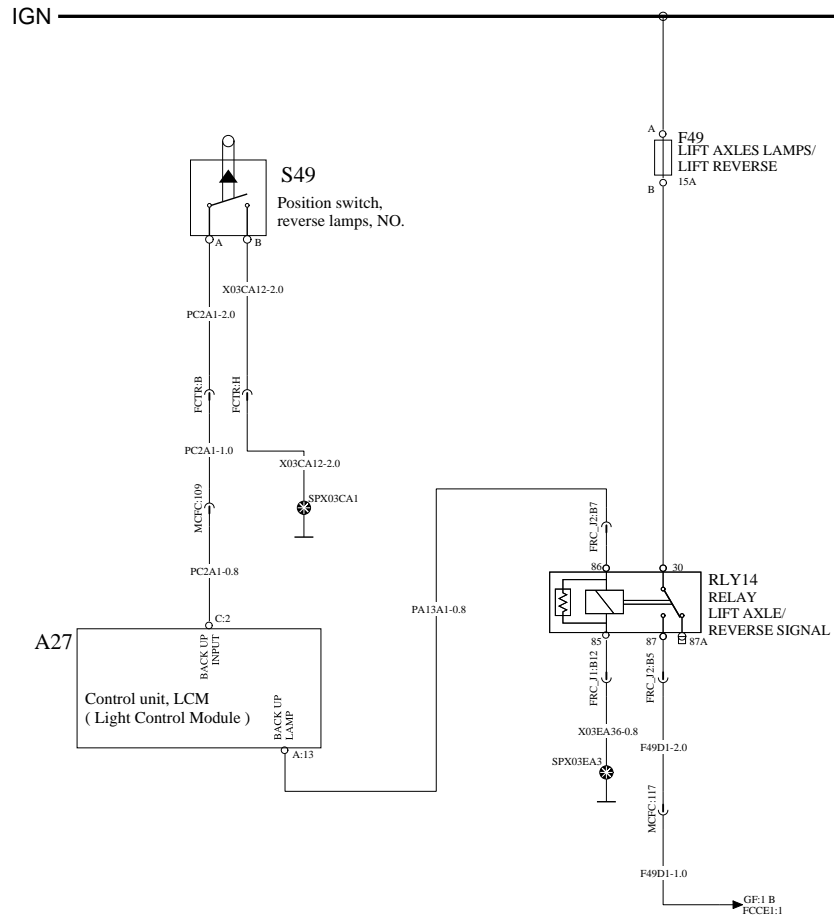
TAIL LAMPS W/ ALARM

WIRING DIAGRAM: GF



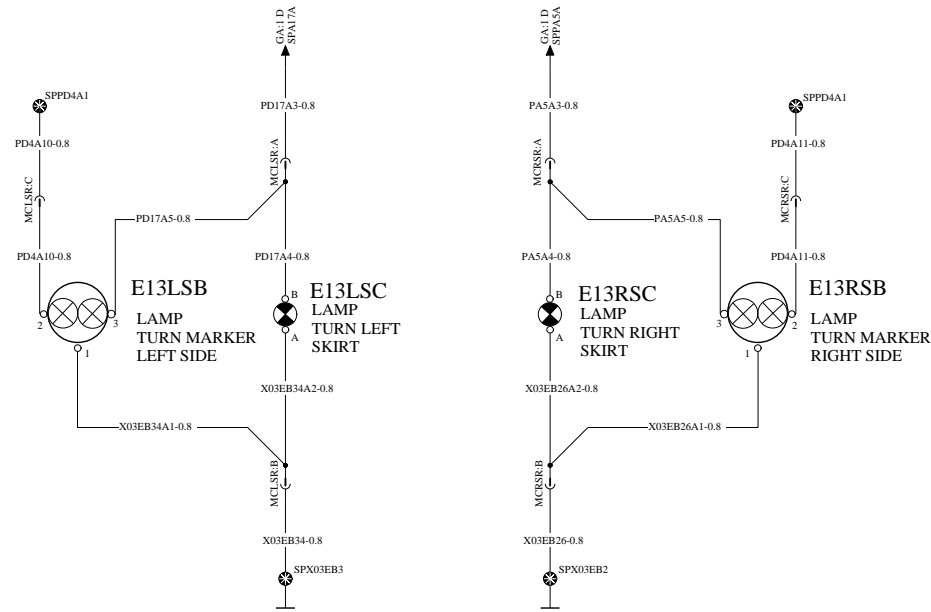
LIGHT CONTROL - BACK UP LAMPS

WIRING DIAGRAM: GG



SIDE REPEATER/MARKER OPTIONS

WIRING DIAGRAM: GH



Volvo Truck Corporation

Document title
WIRING DIAGRAM, 12V MACK CONVENTIONAL

Document type
PRODUCT SCHEMATIC

Document No

23970505

Issue

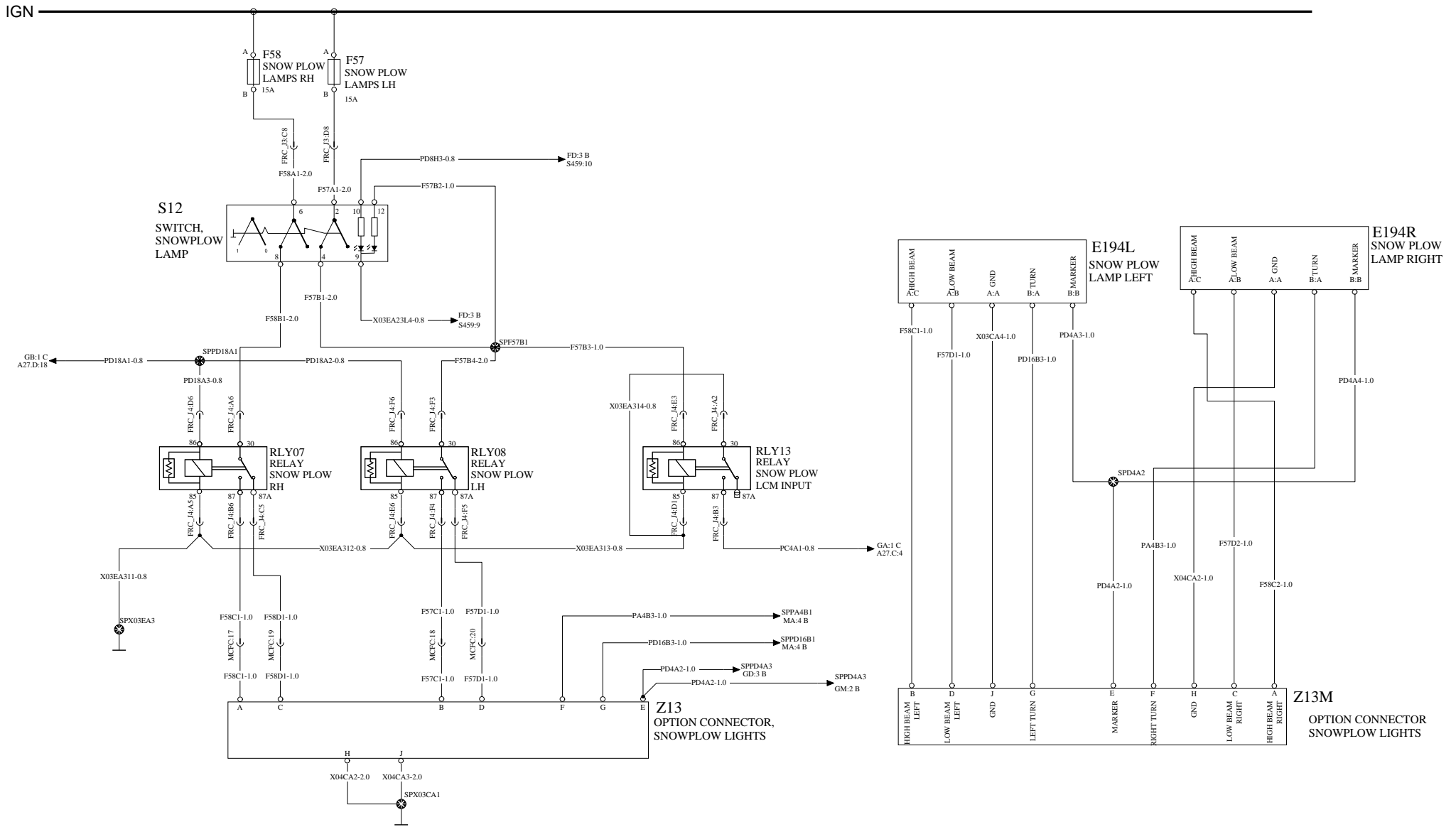
02

Volume

1 (1)

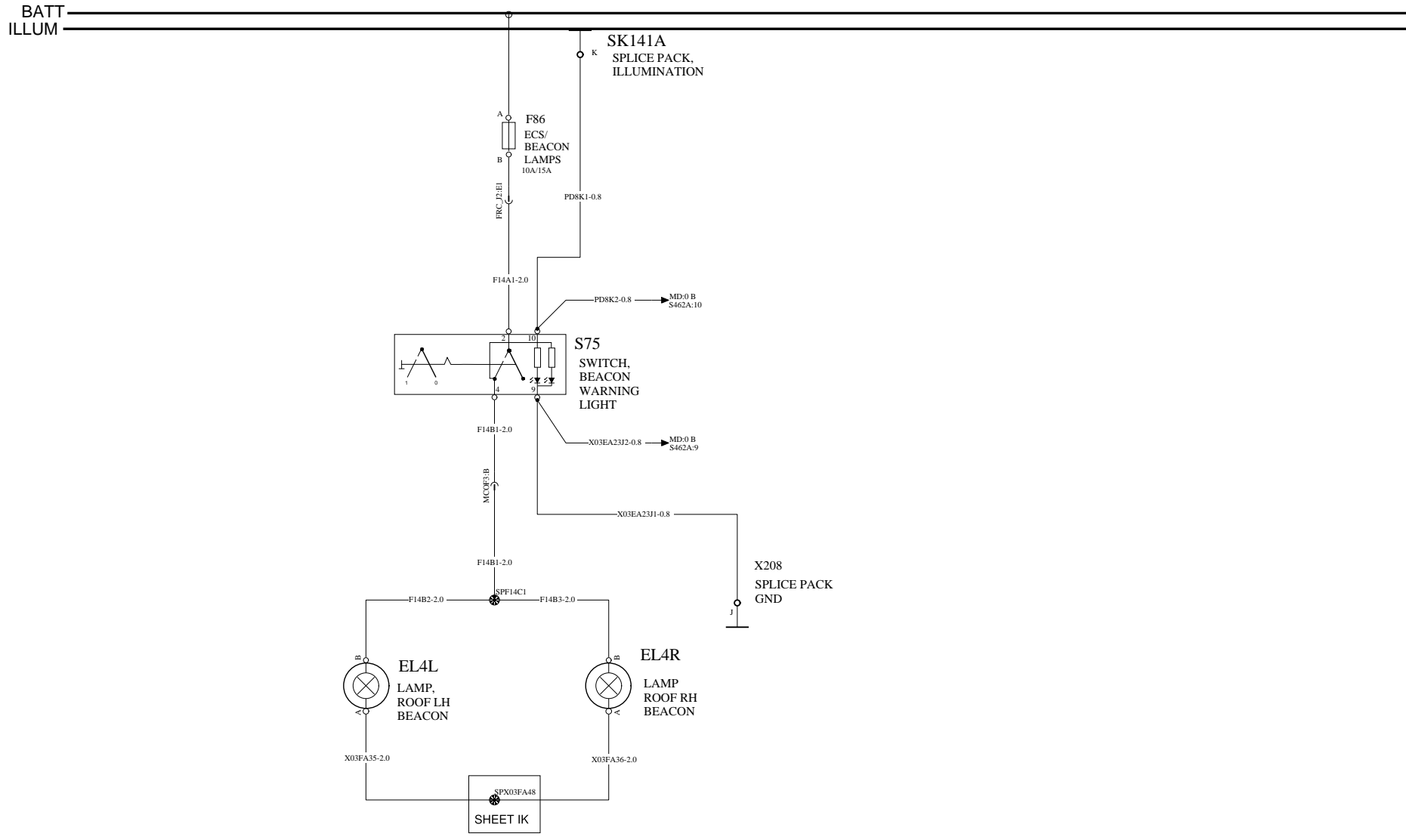
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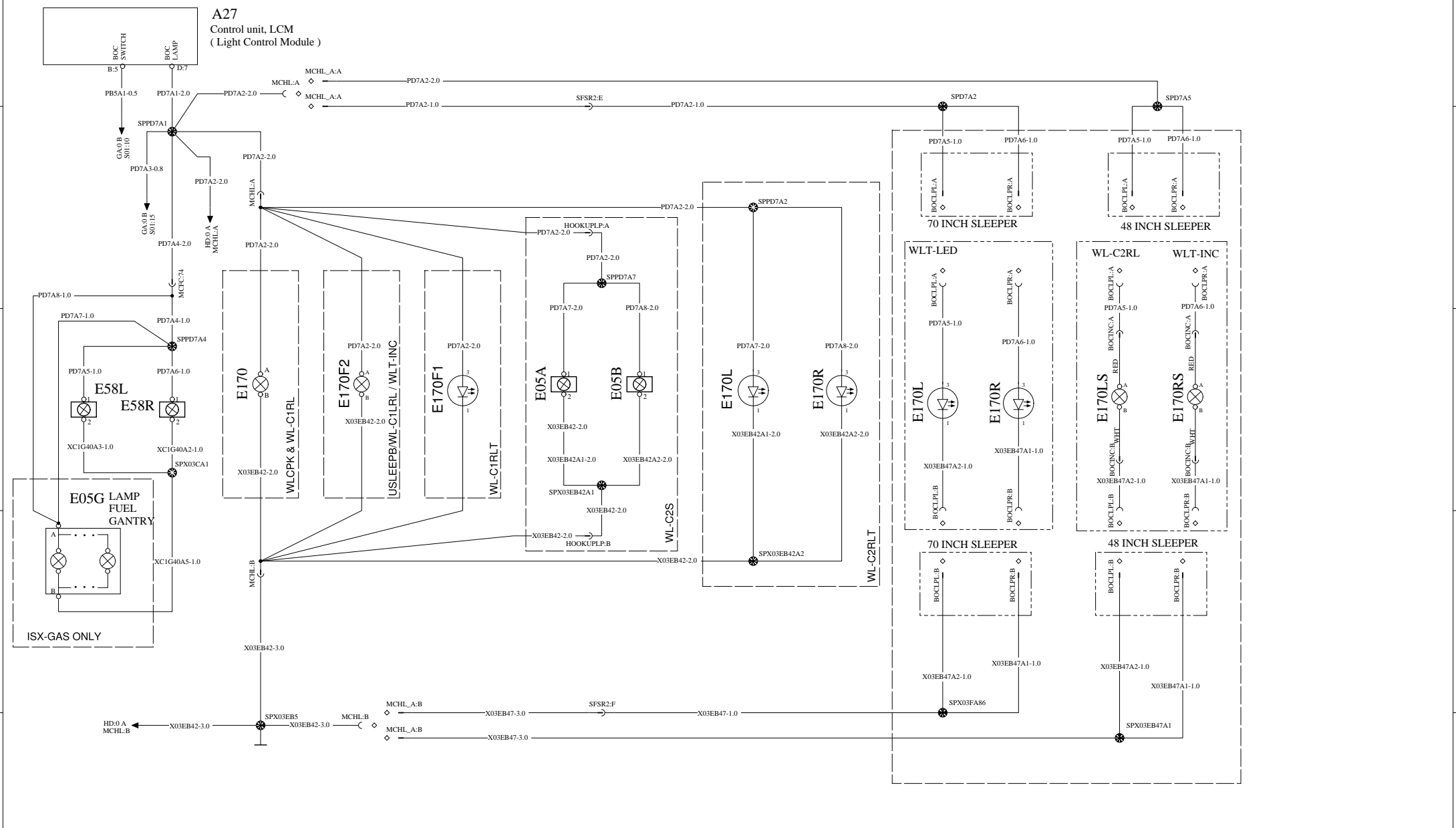
BEACON LAMPS

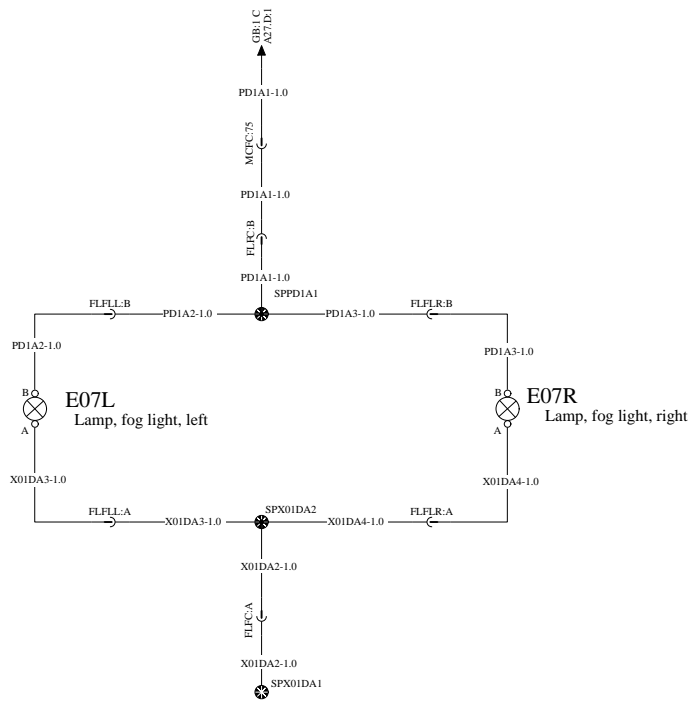
WIRING DIAGRAM: GJ

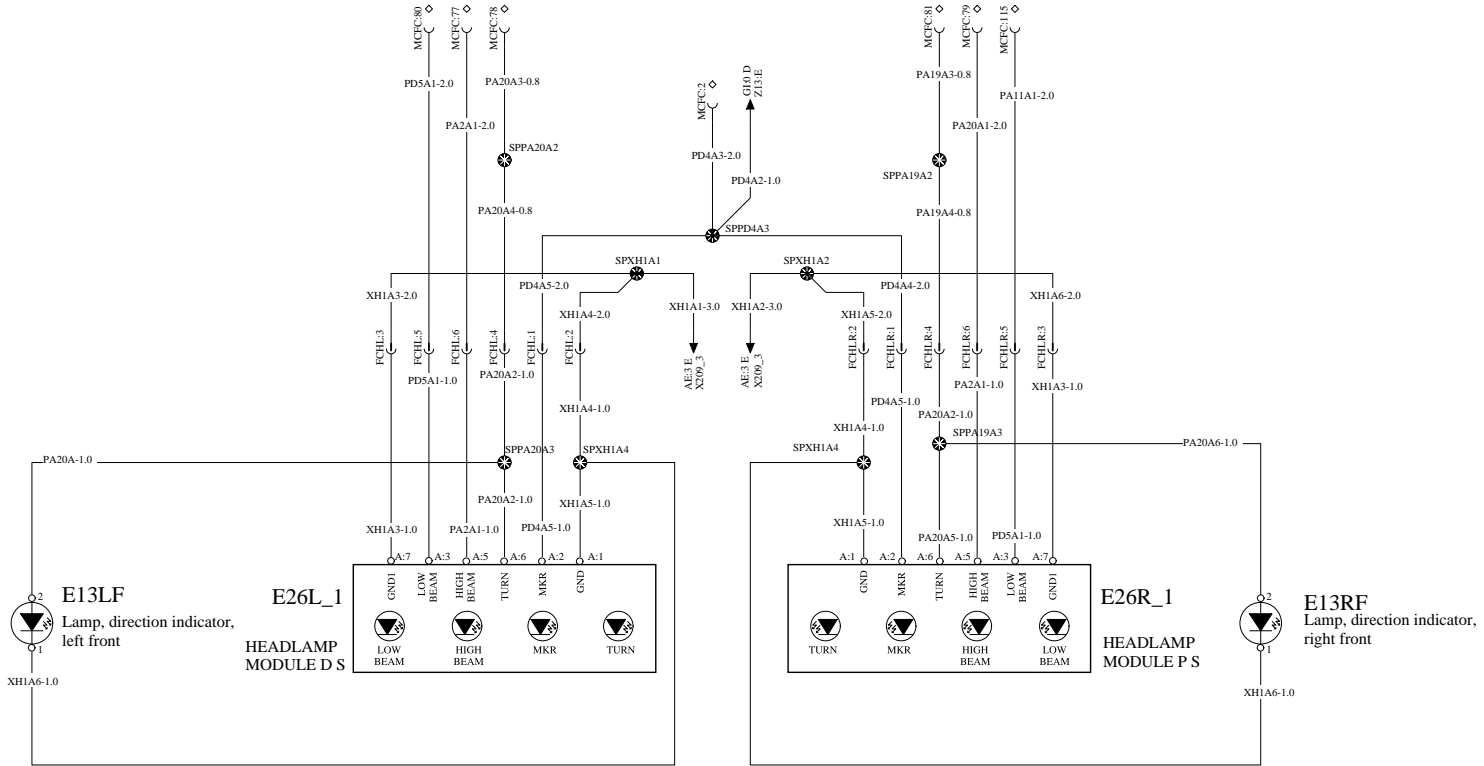


HOOK UP LAMPS

WIRING DIAGRAM: GK

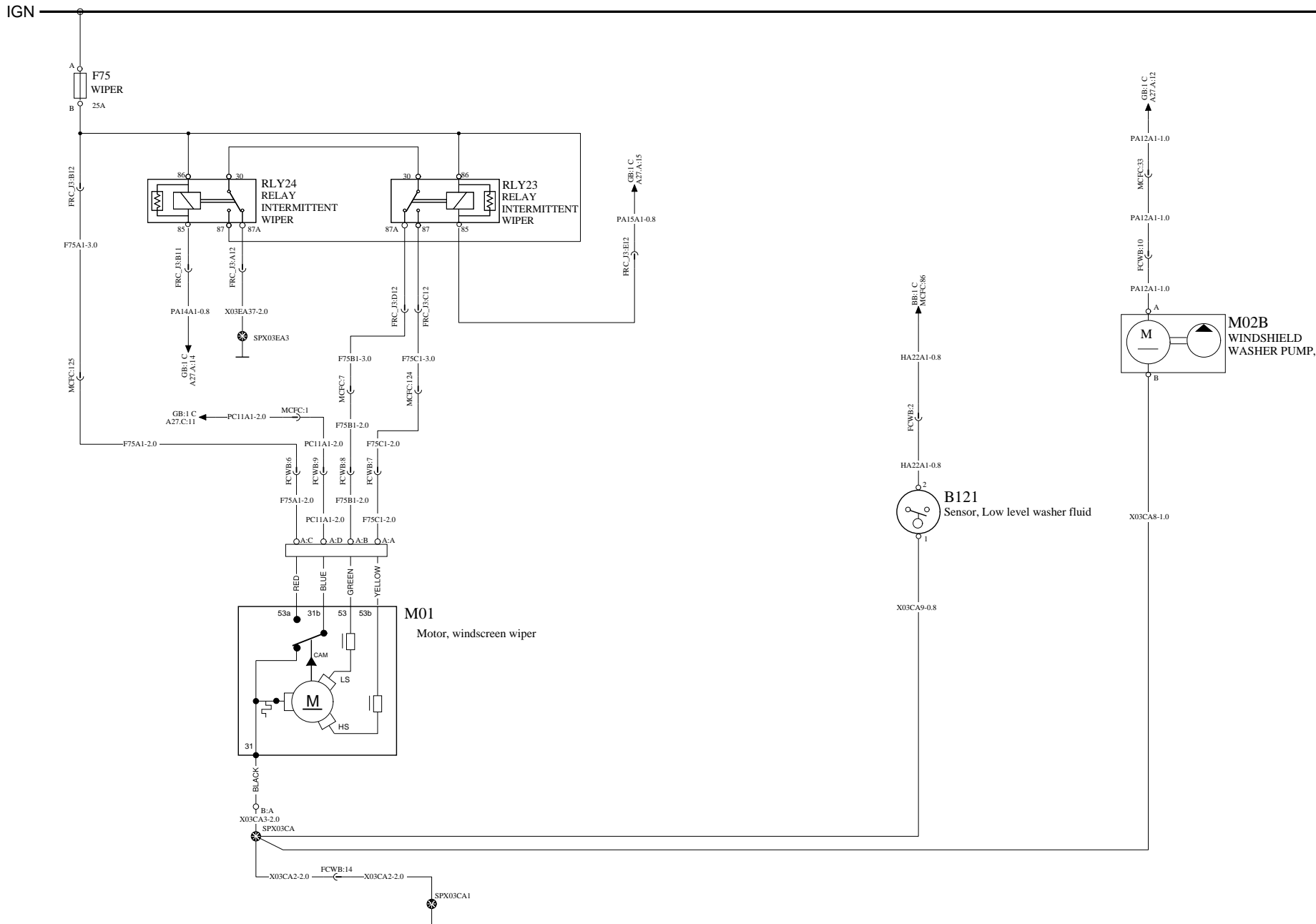






WINSHIELD WIPER/WASHER

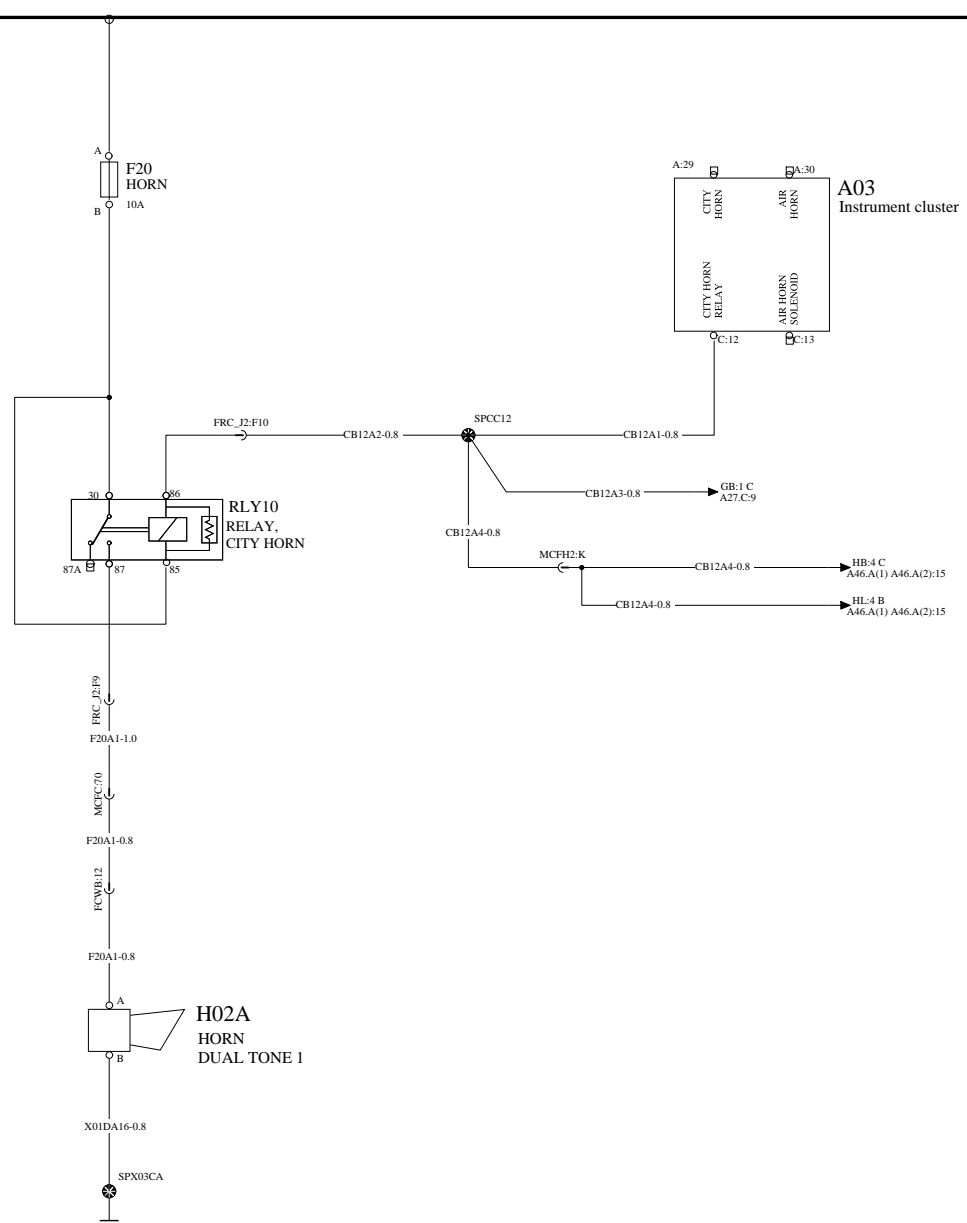
WIRING DIAGRAM: GP



HORN

WIRING DIAGRAM: GQ

BATT



Volvo Truck Corporation

Document title
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Document type
 PRODUCT SCHEMATIC

Document No
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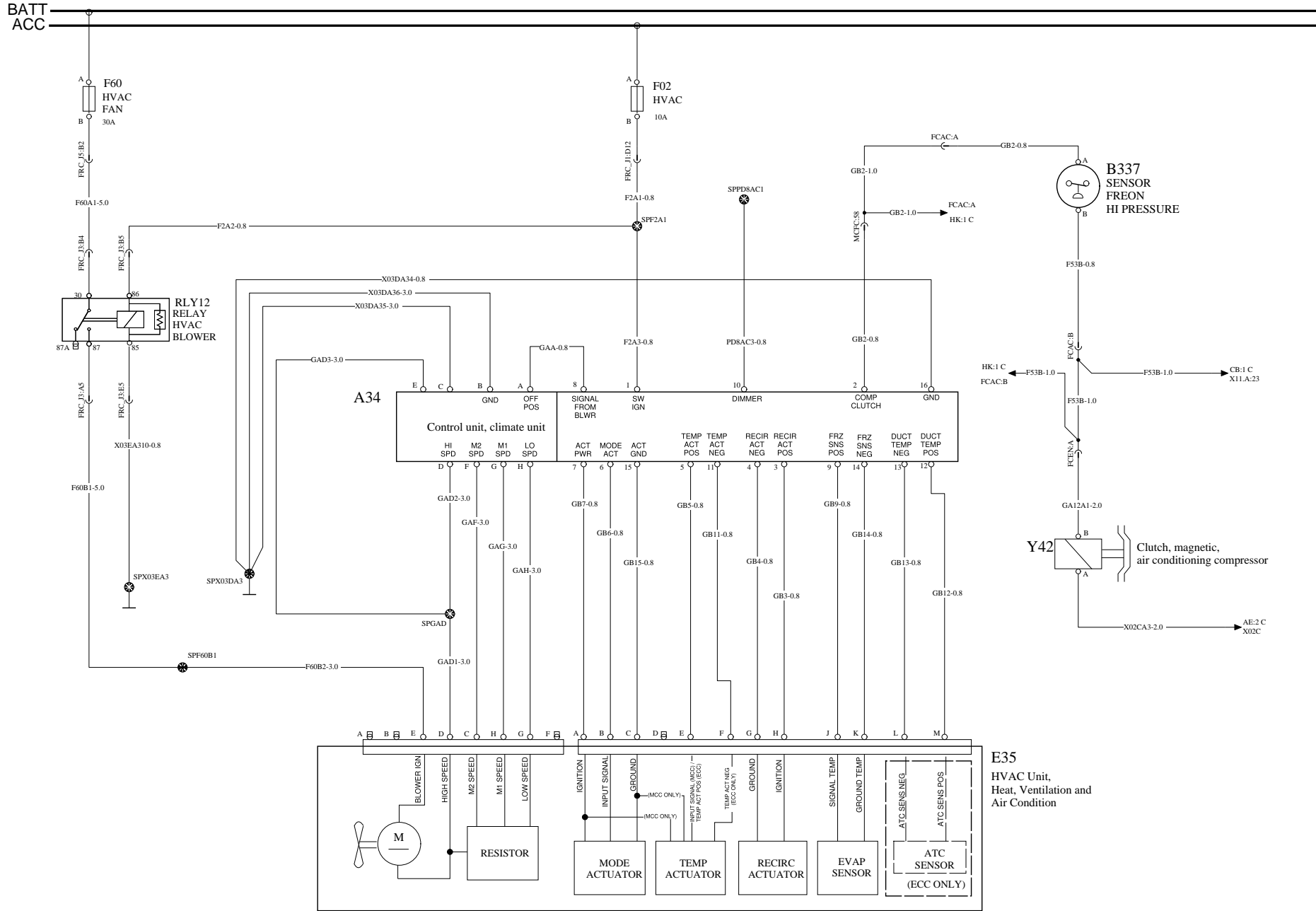
Issue
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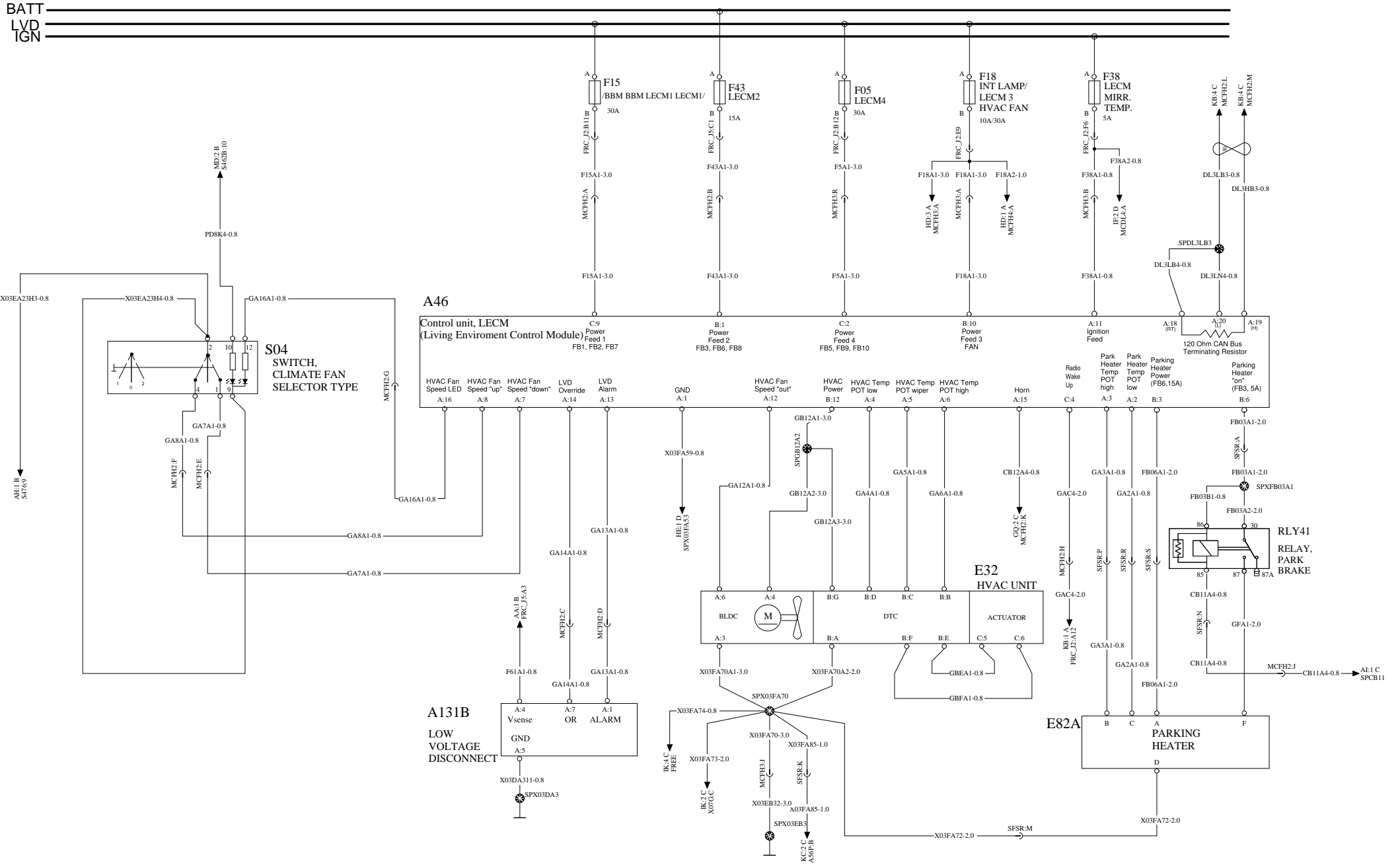
CLIMATE CONTROL

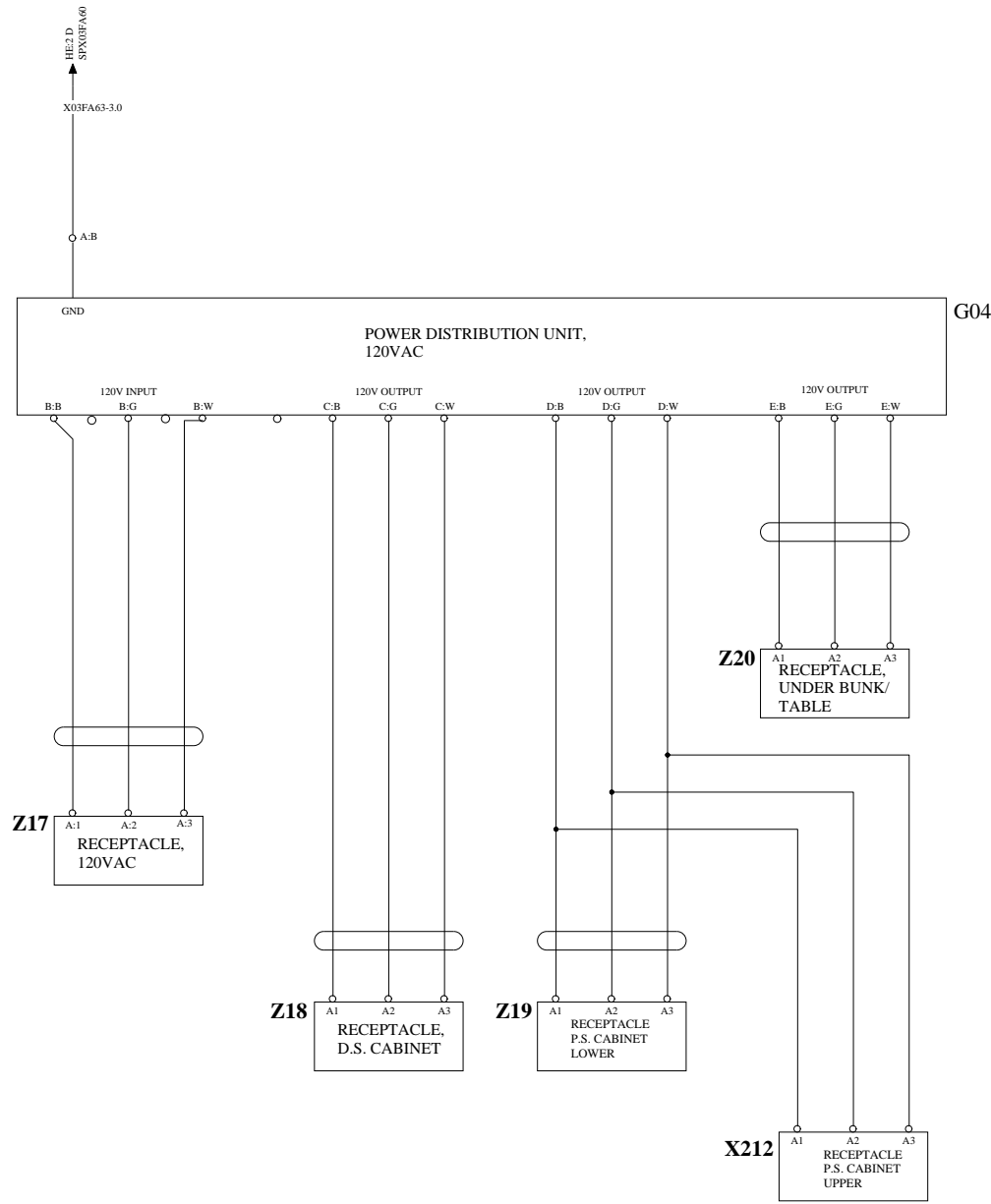
WIRING DIAGRAM: HA



SLEEPER CLIMATE CONTROL W/LECM 70" SLEEPER

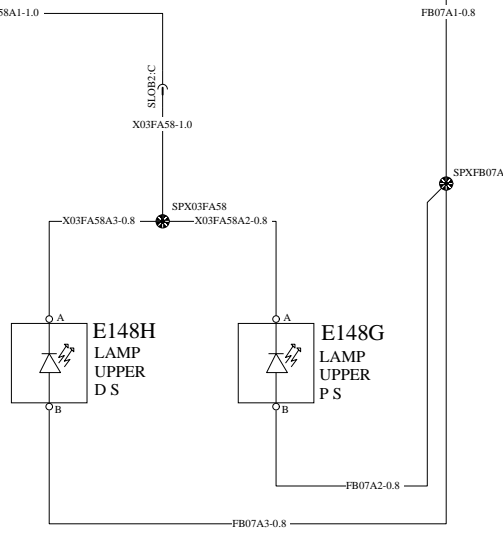
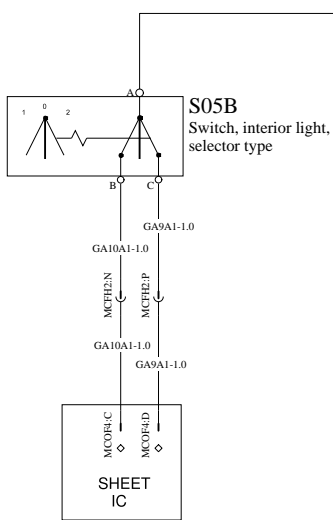
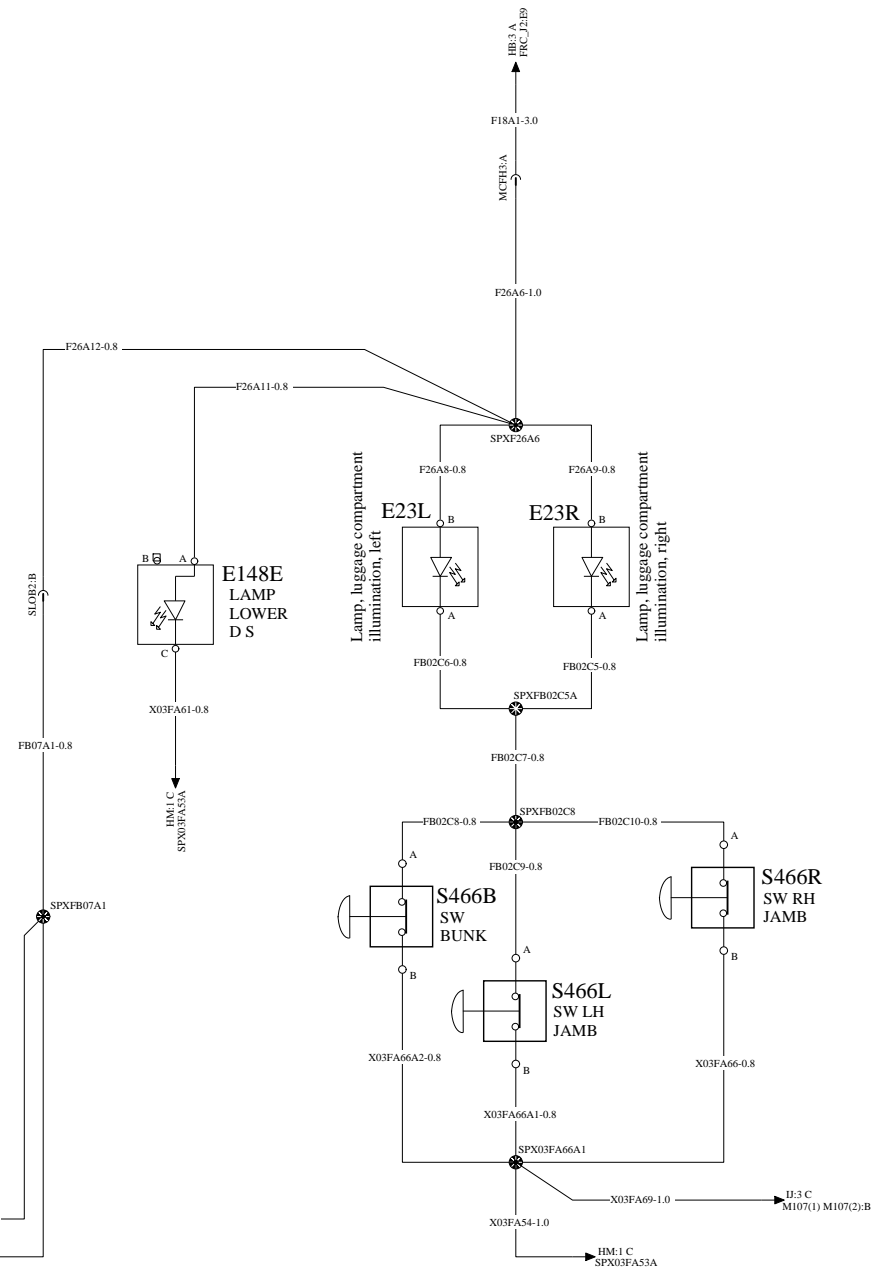
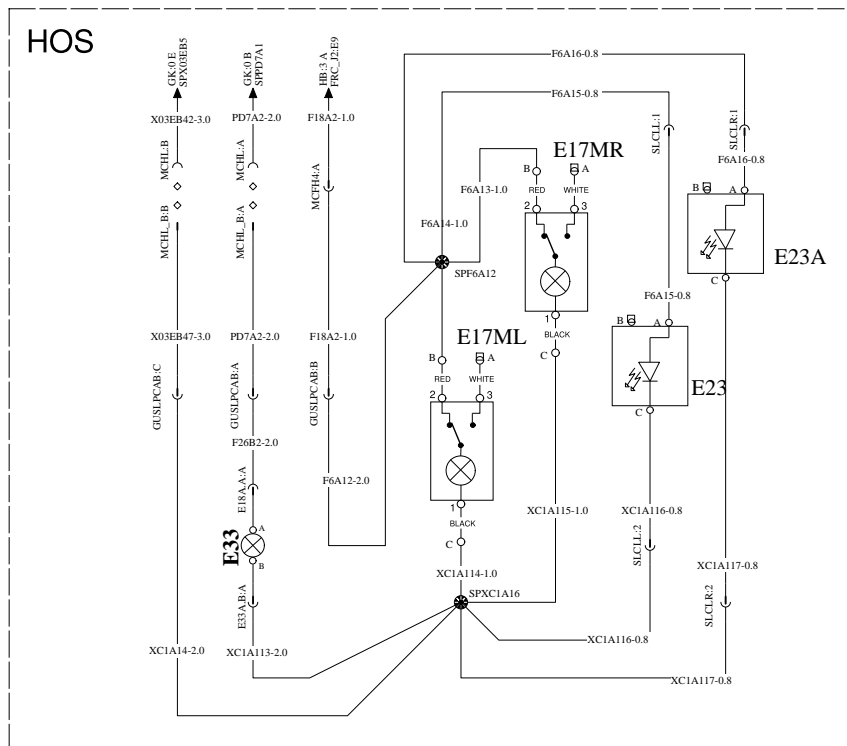
WIRING DIAGRAM: HB

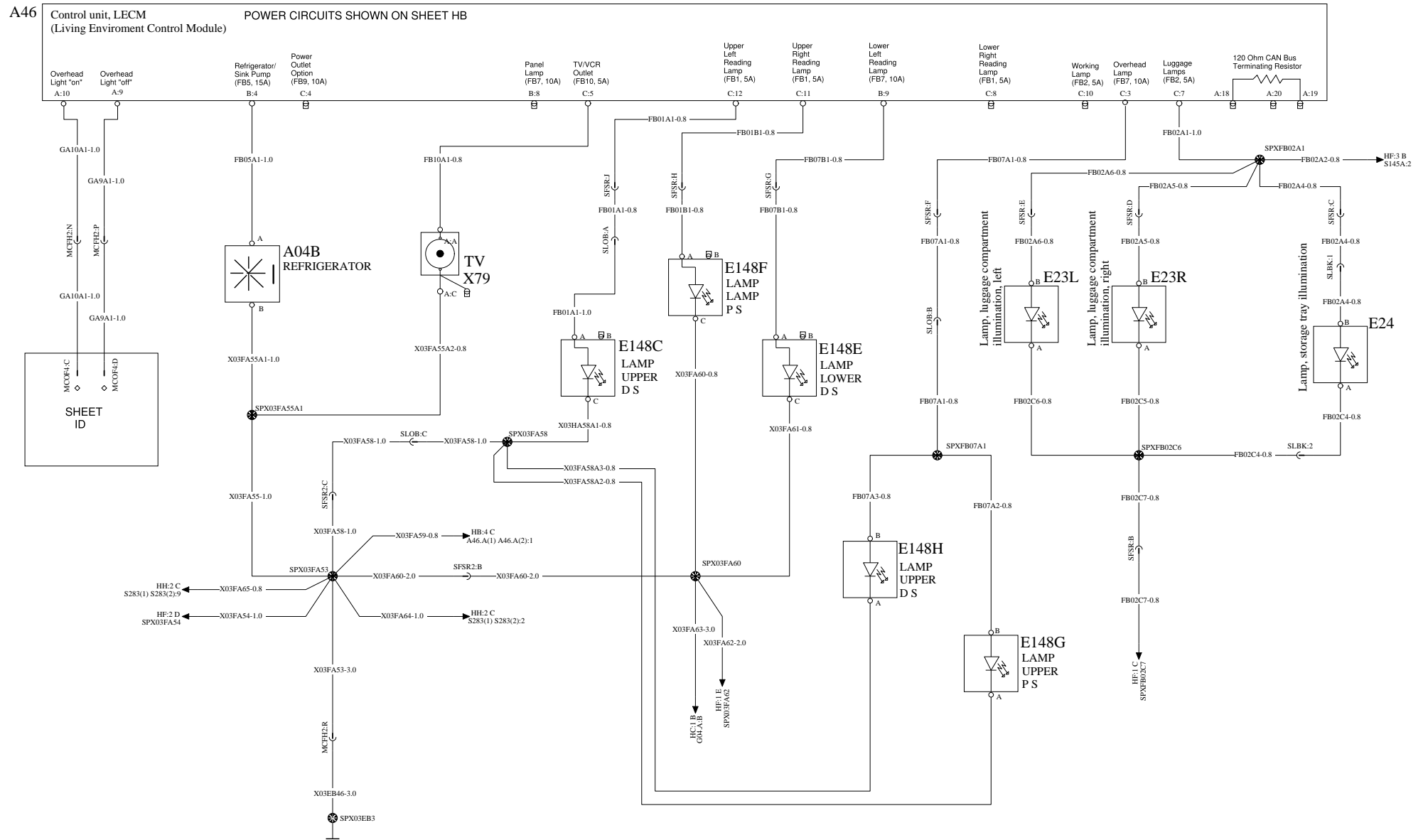




SLEEPER FUNCTIONS W/O LECM 48 INCH BASIC

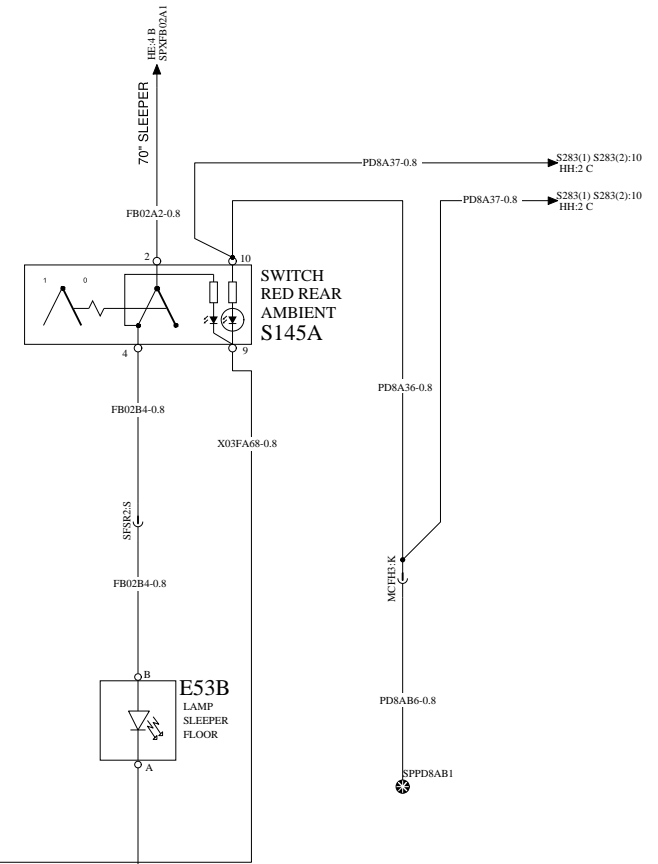
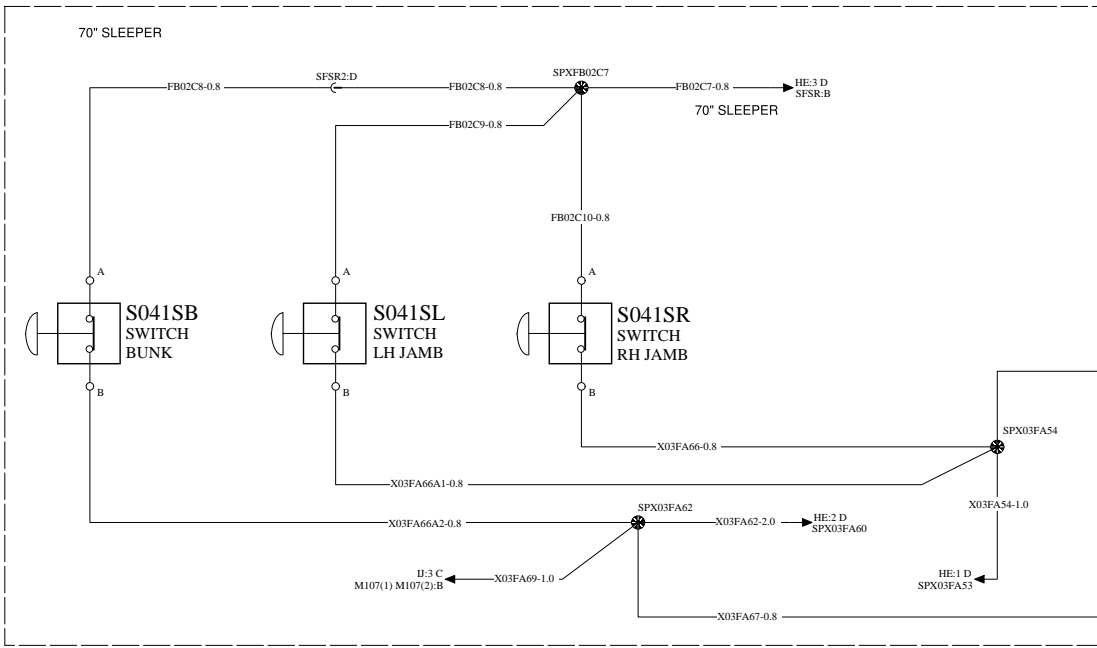
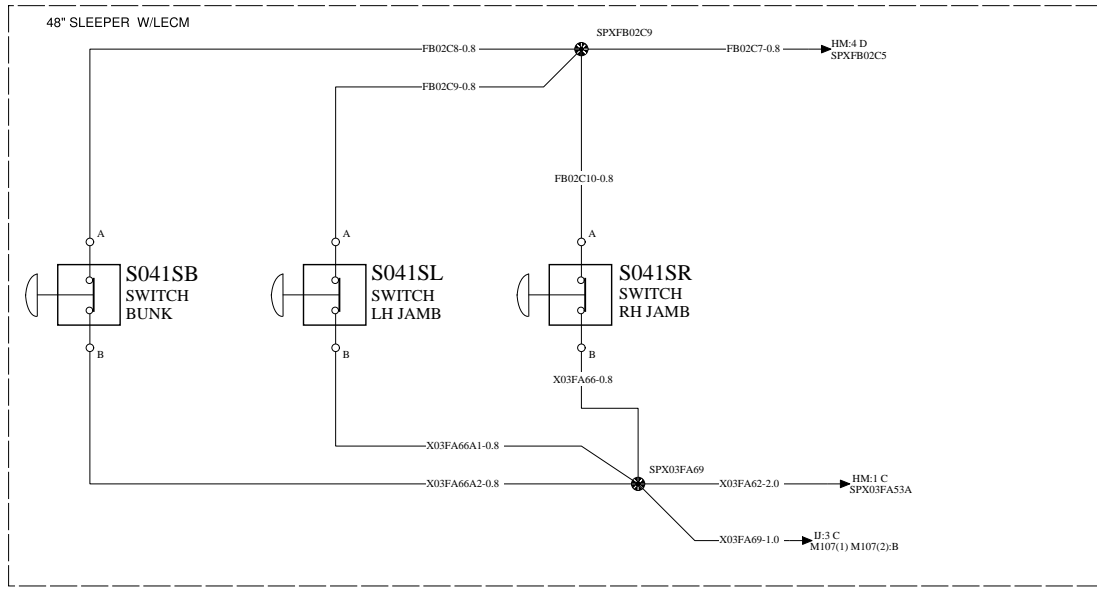
WIRING DIAGRAM: HD

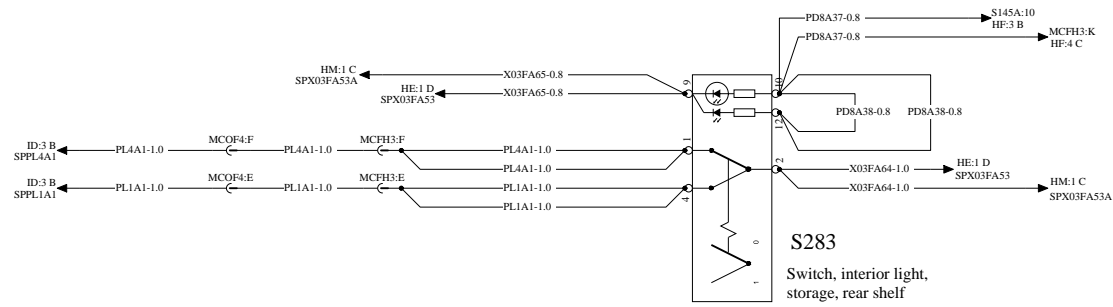




SLEEPER COURTESY AND UNDER BUNK

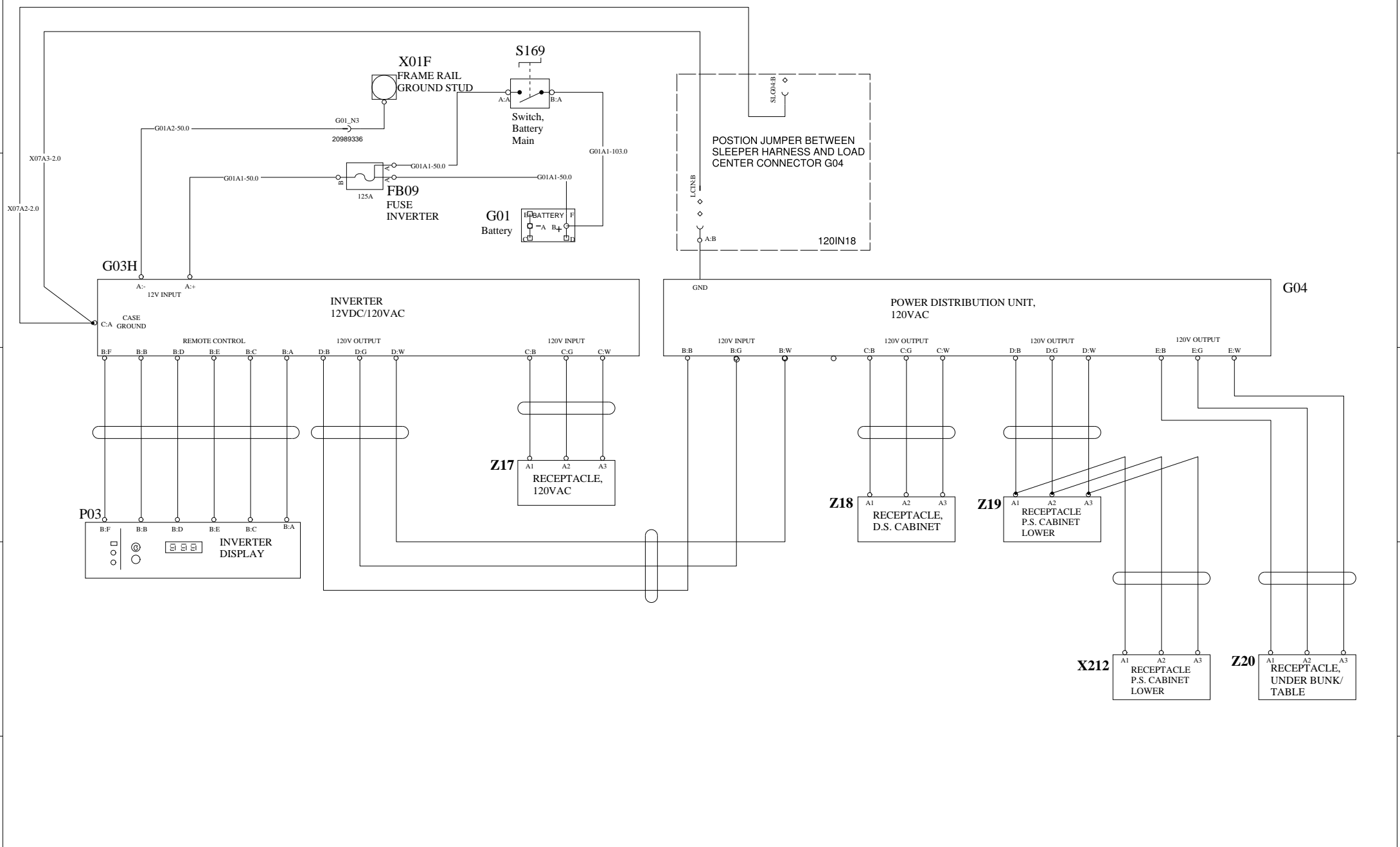
WIRING DIAGRAM : HF



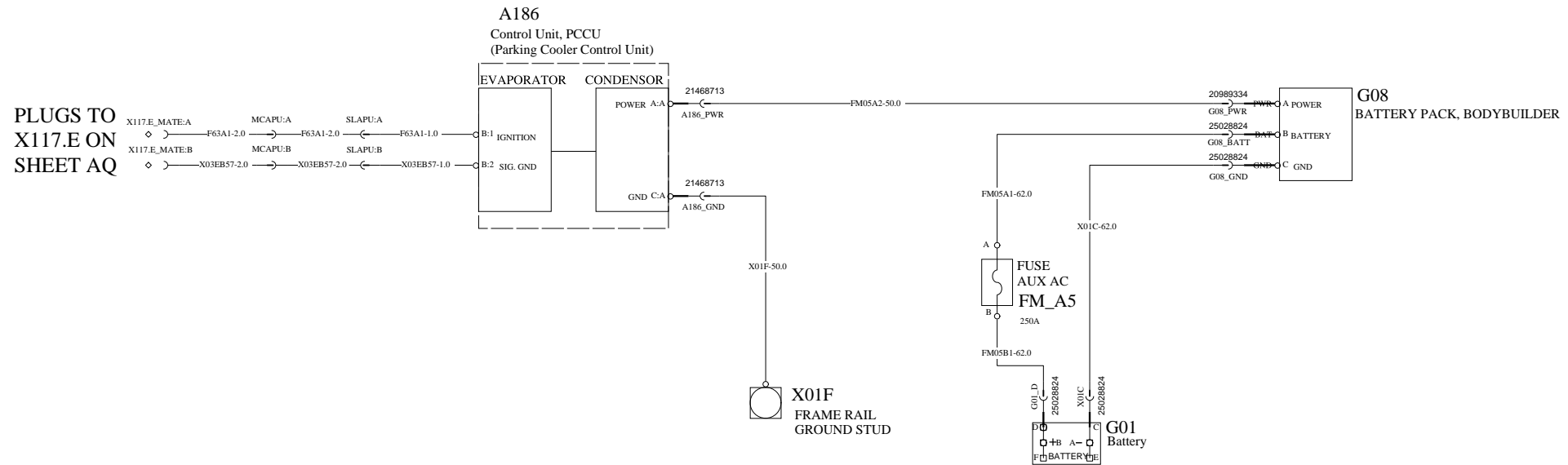


SHORE POWER W/INVERTER

WIRING DIAGRAM: HI

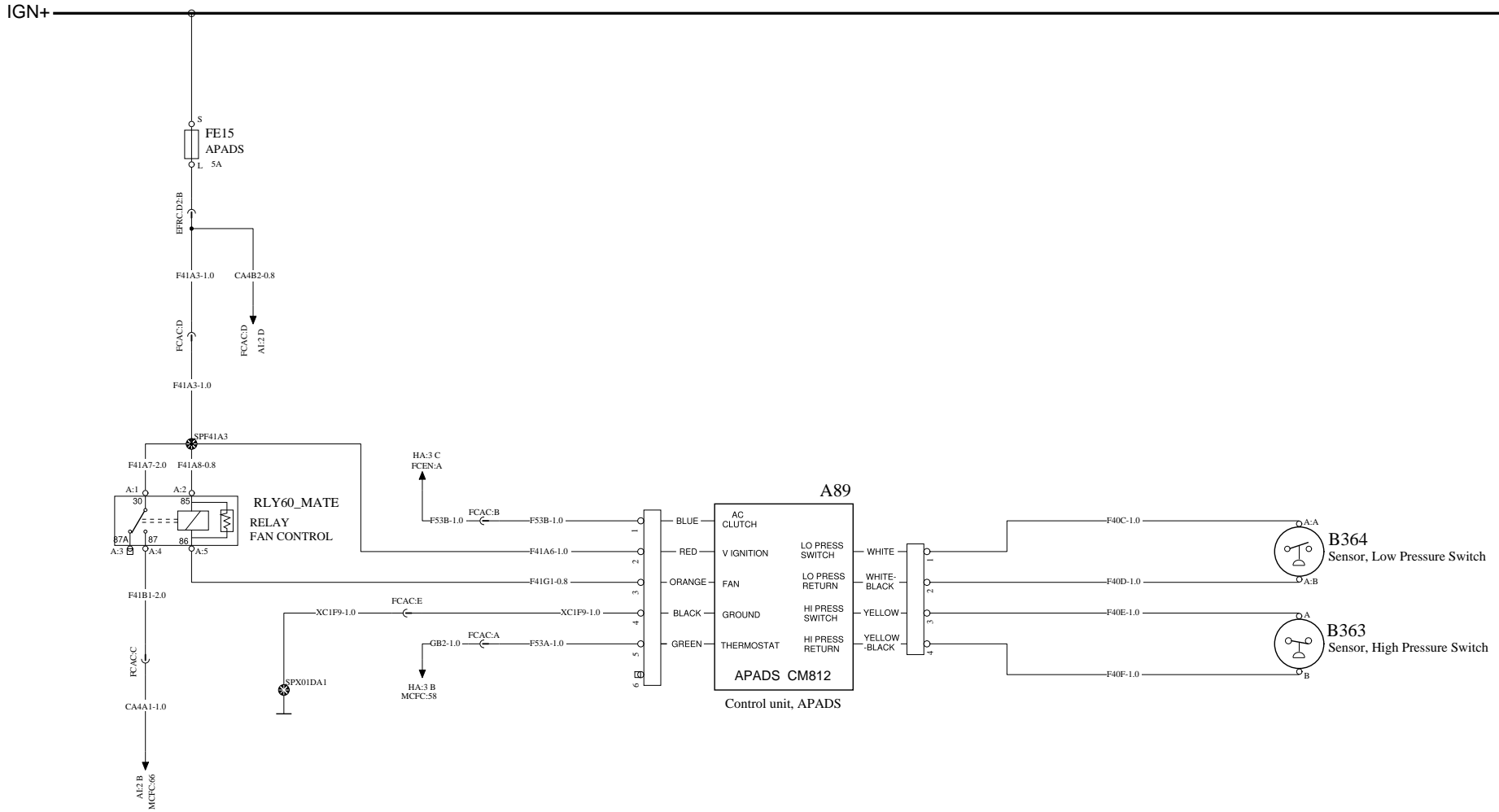


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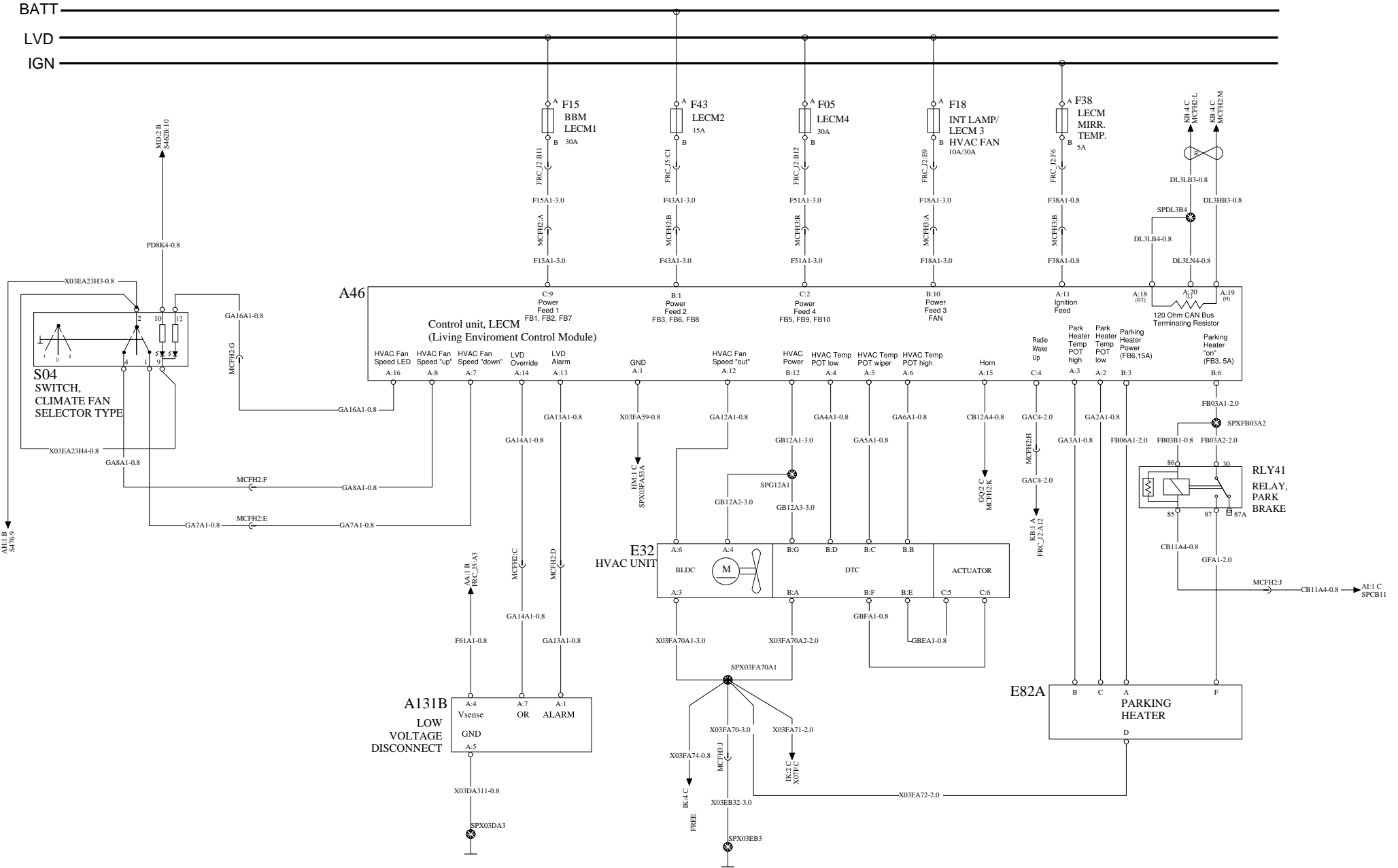
APADS

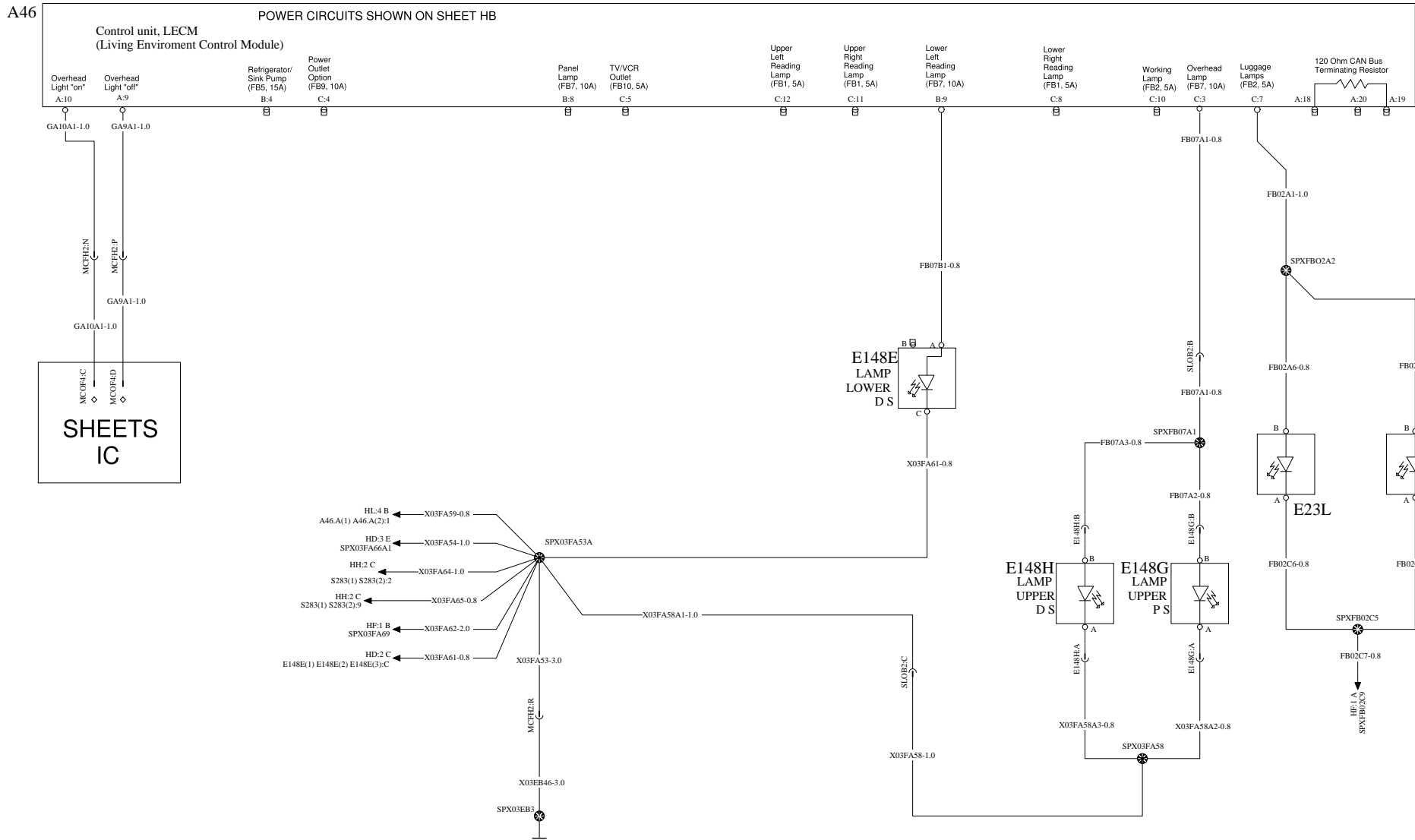
WIRING DIAGRAM: HK



SLEEPER CLIMATE CONTROL W/LECM 48" SLEEPER

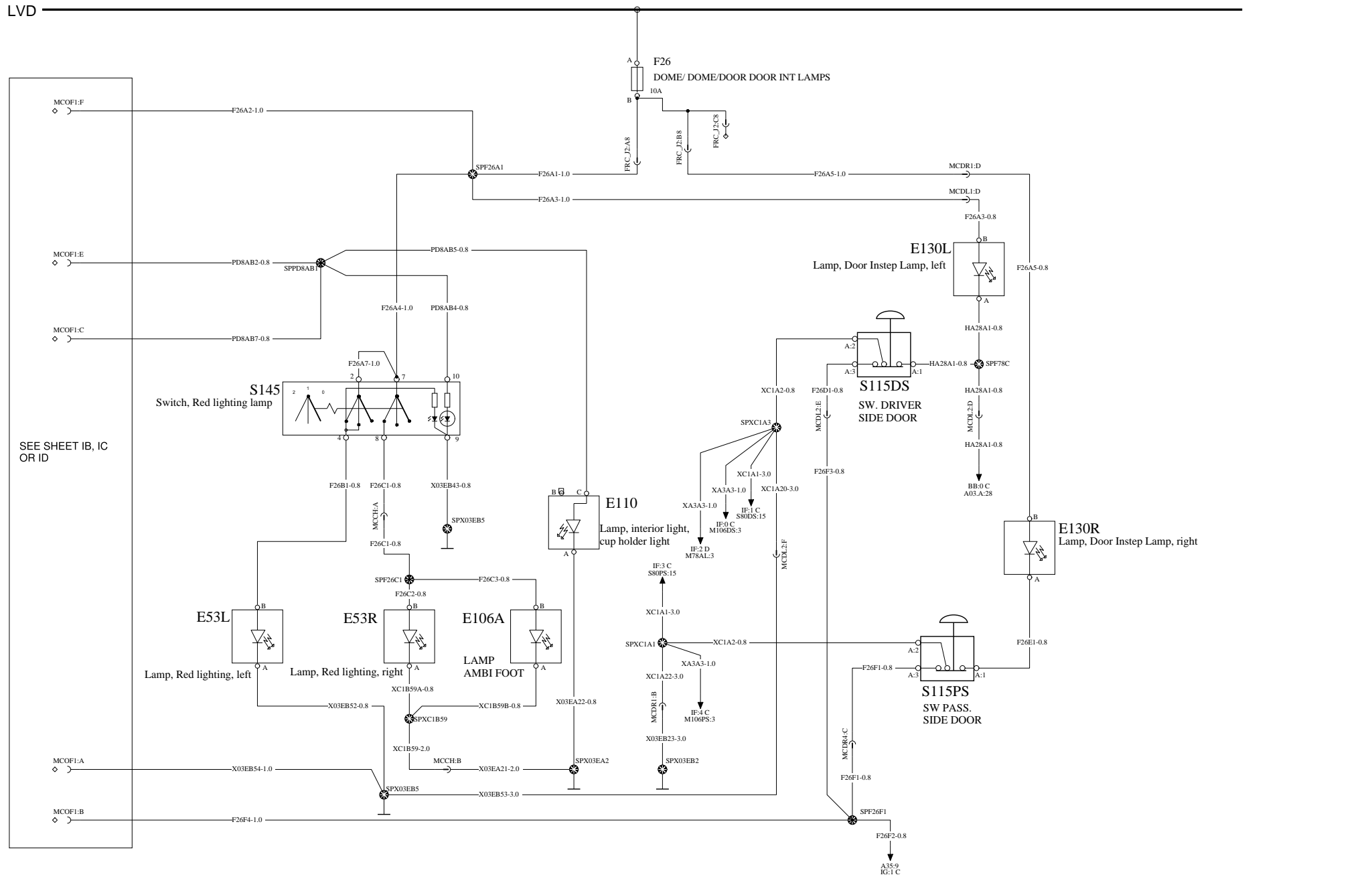
WIRING DIAGRAM: HL





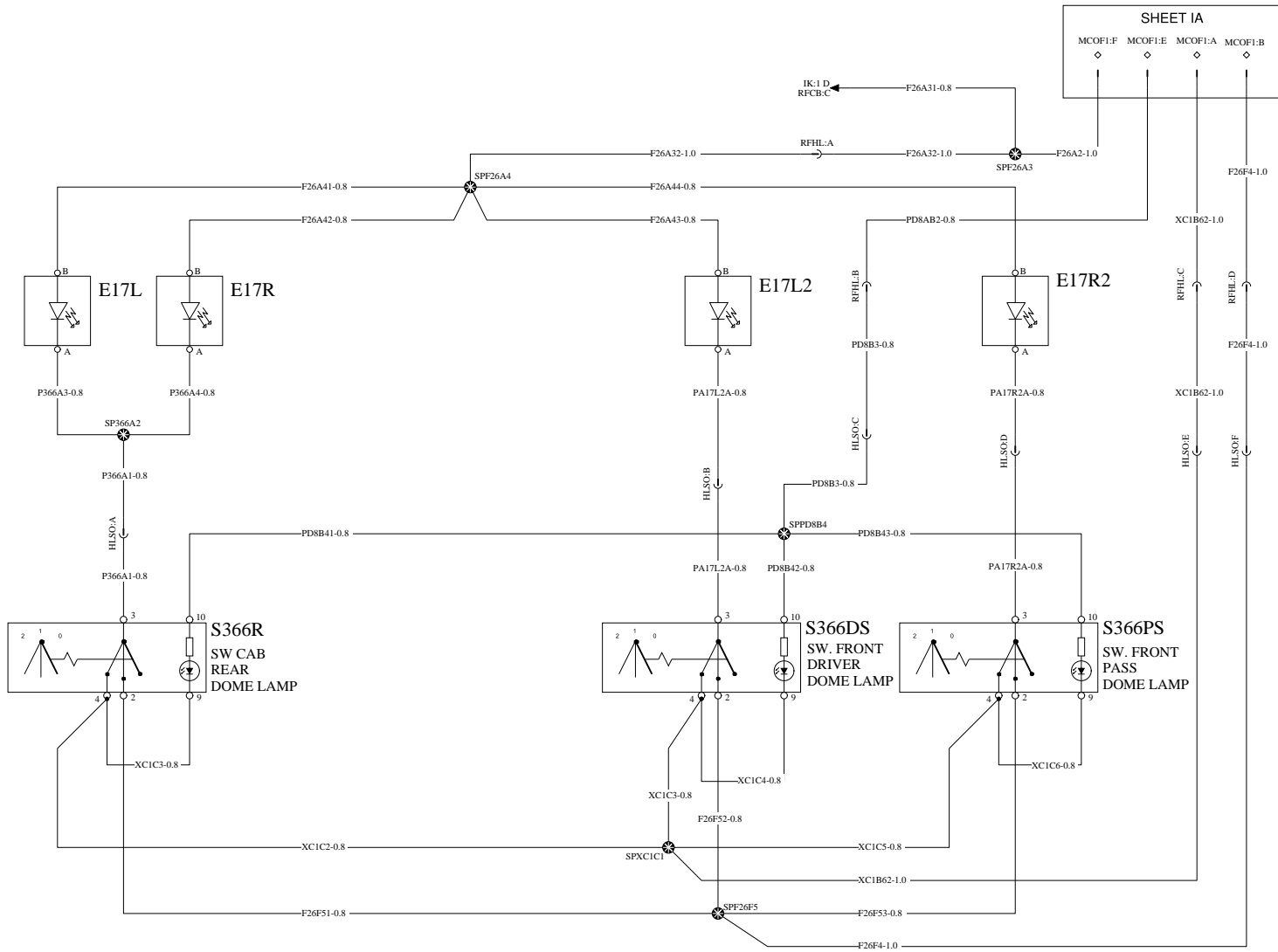
SHEETS IC

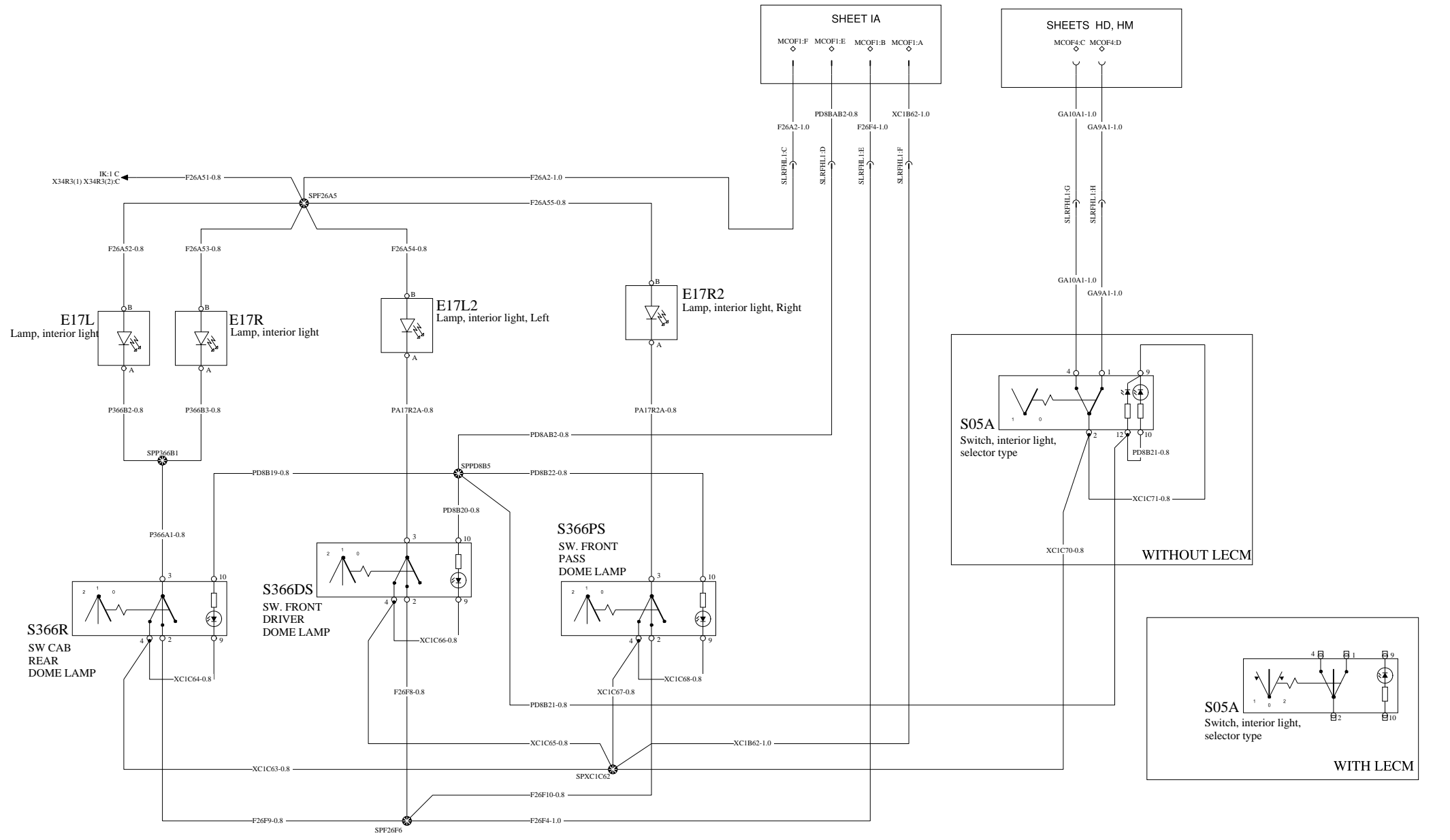
LVD



SEE SHEET IB, IC OR ID

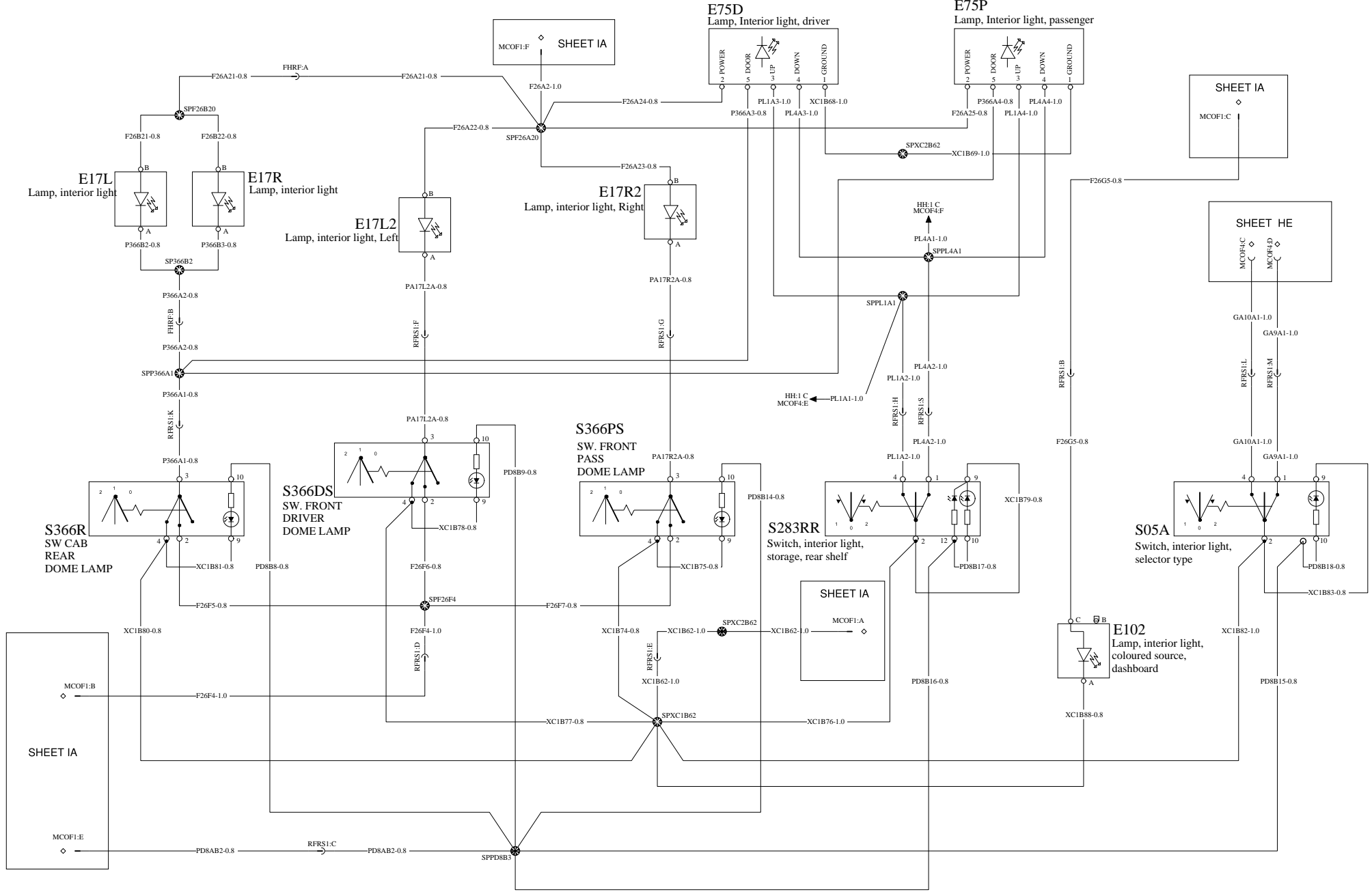
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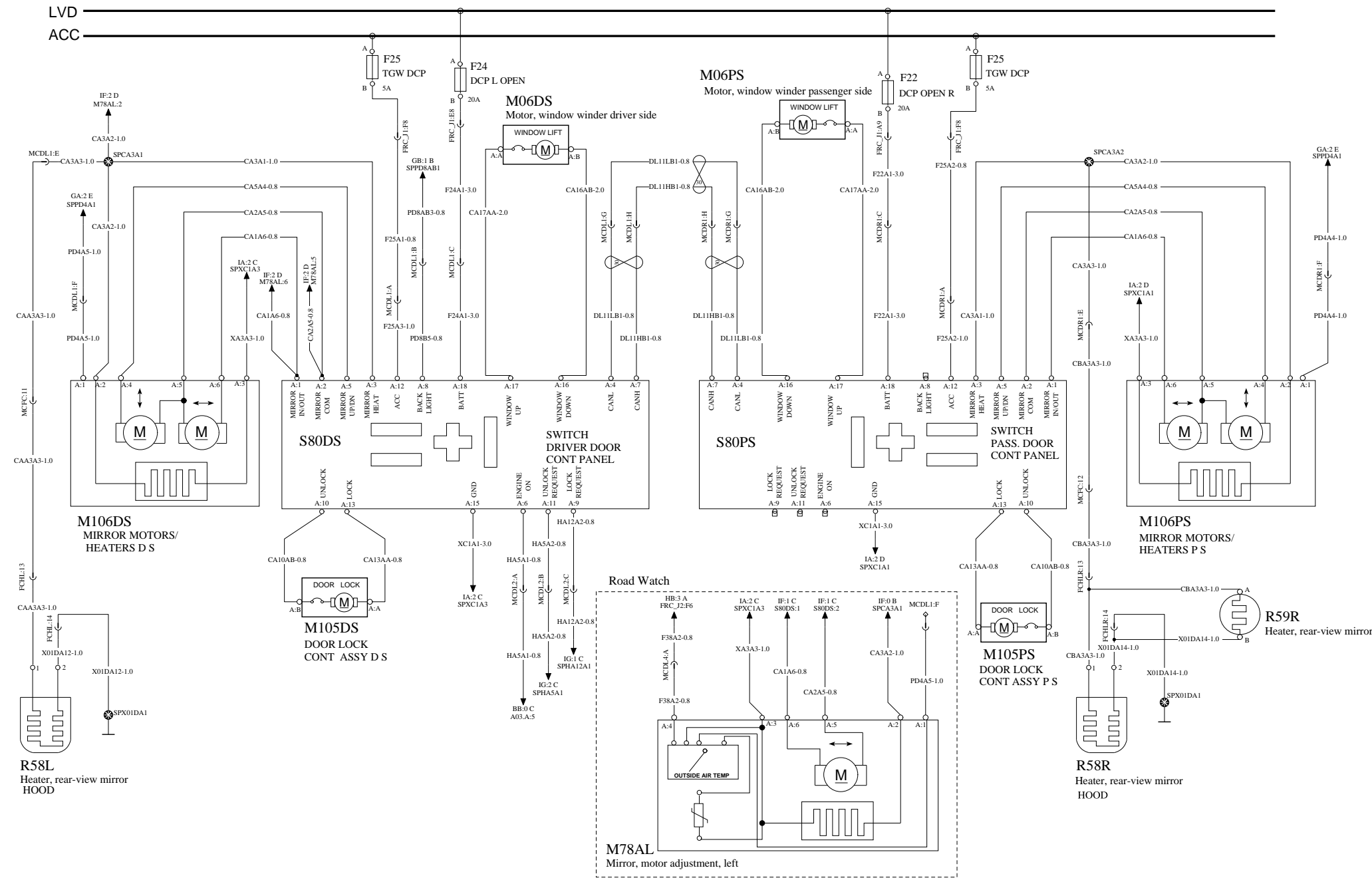
COURTESY LIGHTS - 70" SLEEPER

WIRING DIAGRAM: ID



POWER WINDOWS/MIRRORS/LOCKS

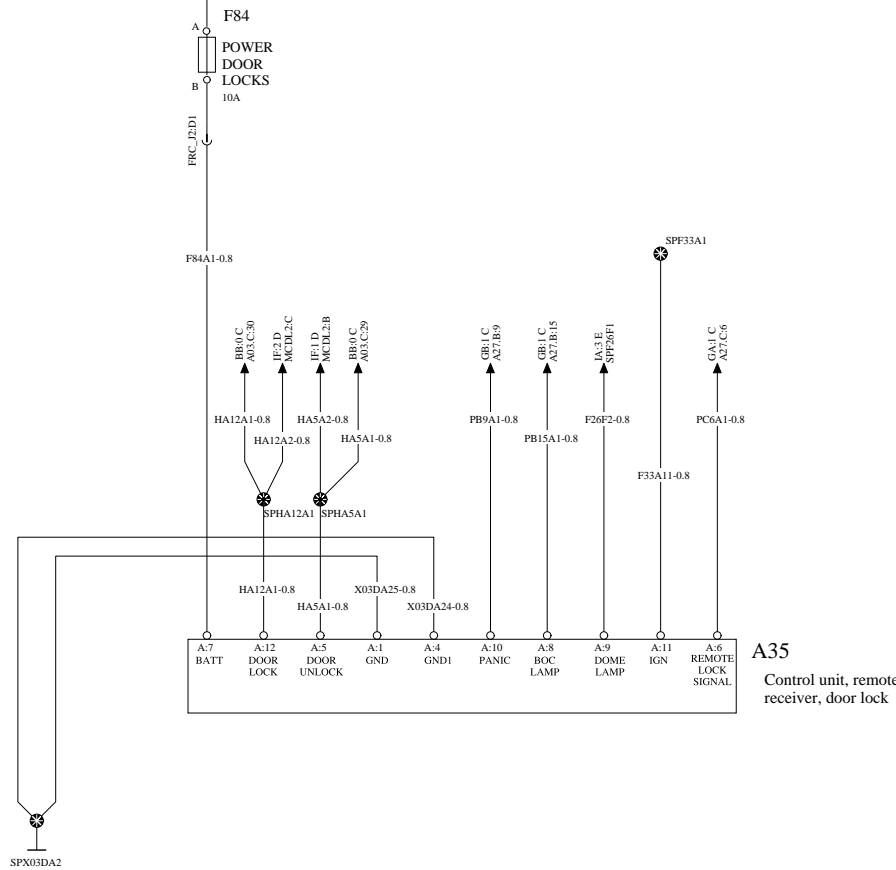
WIRING DIAGRAM: IF



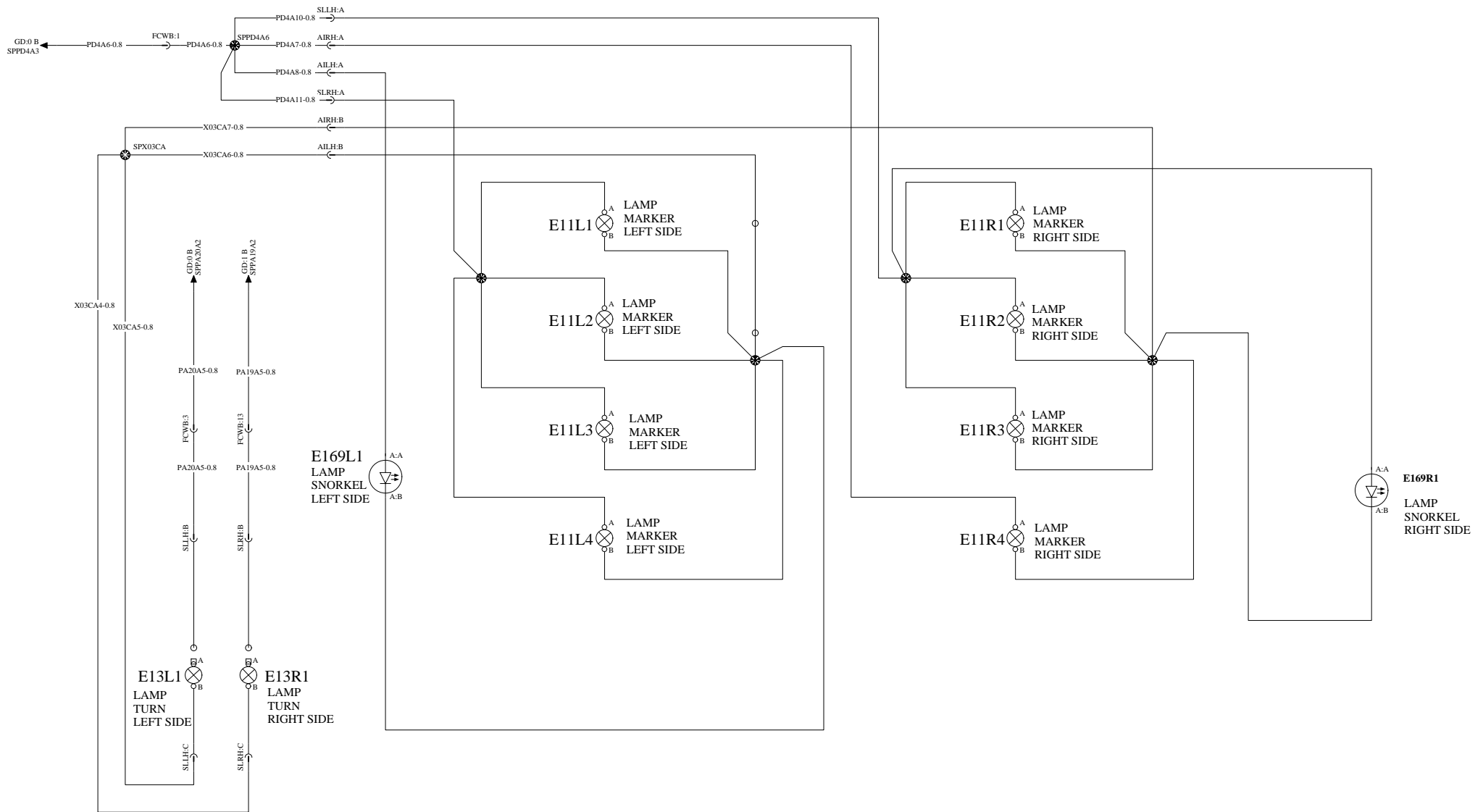
REMOTE DOOR LOCKING

WIRING DIAGRAM: IG

BATT

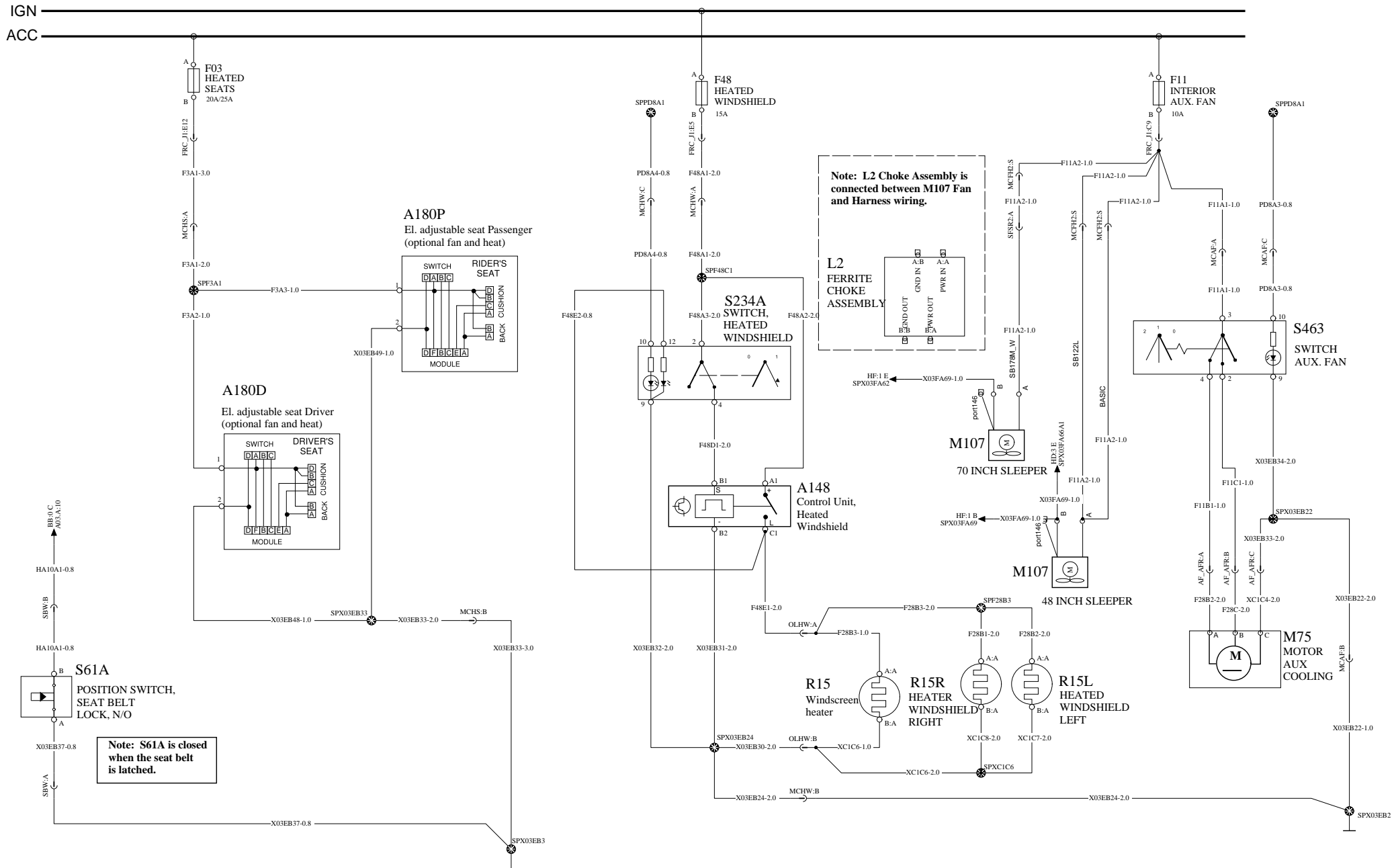


A35
Control unit, remote receiver, door lock



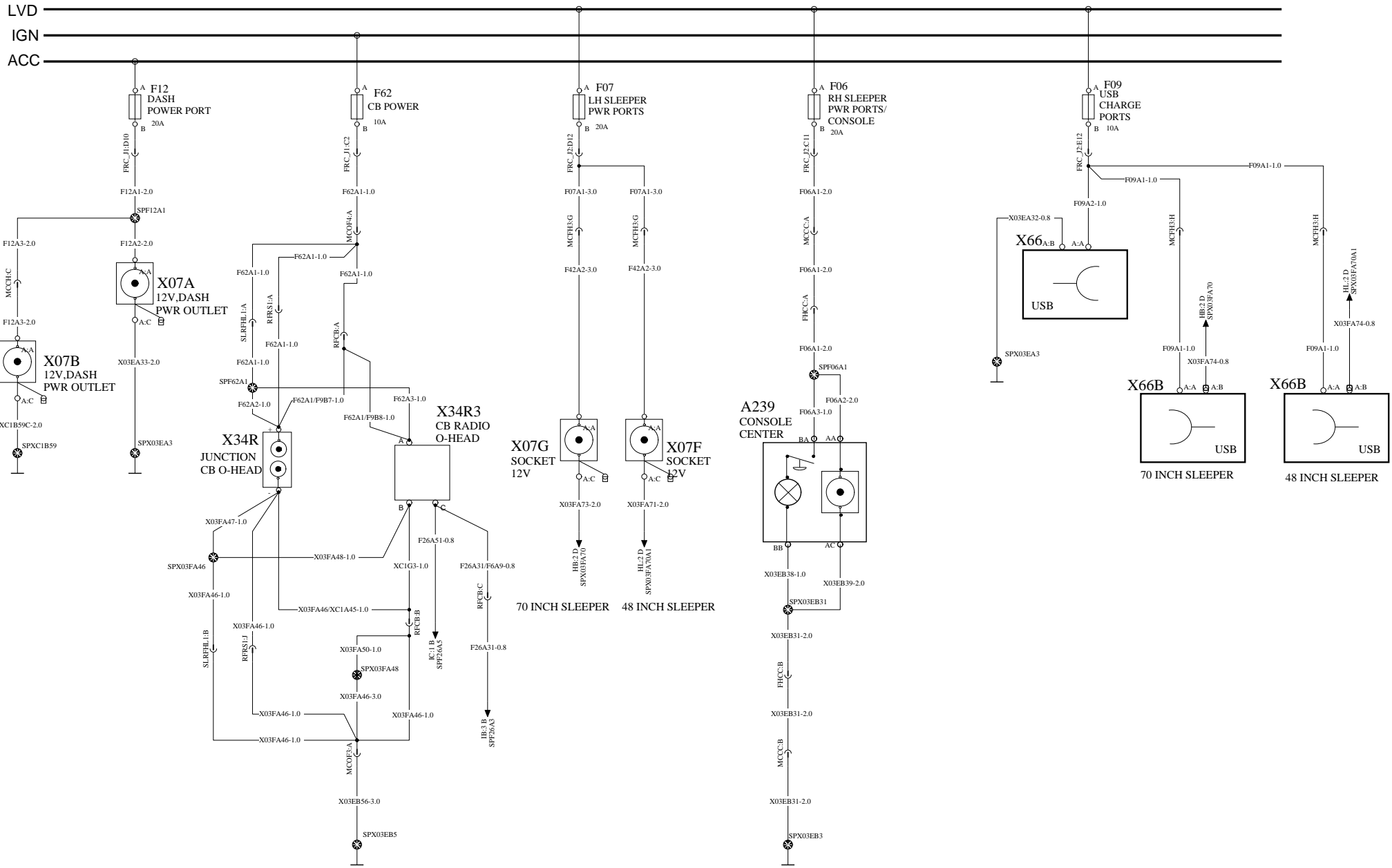
HEATED SEATS/SEATBELT REMINDER/HEATED WINDSHIELD

WIRING DIAGRAM: IJ



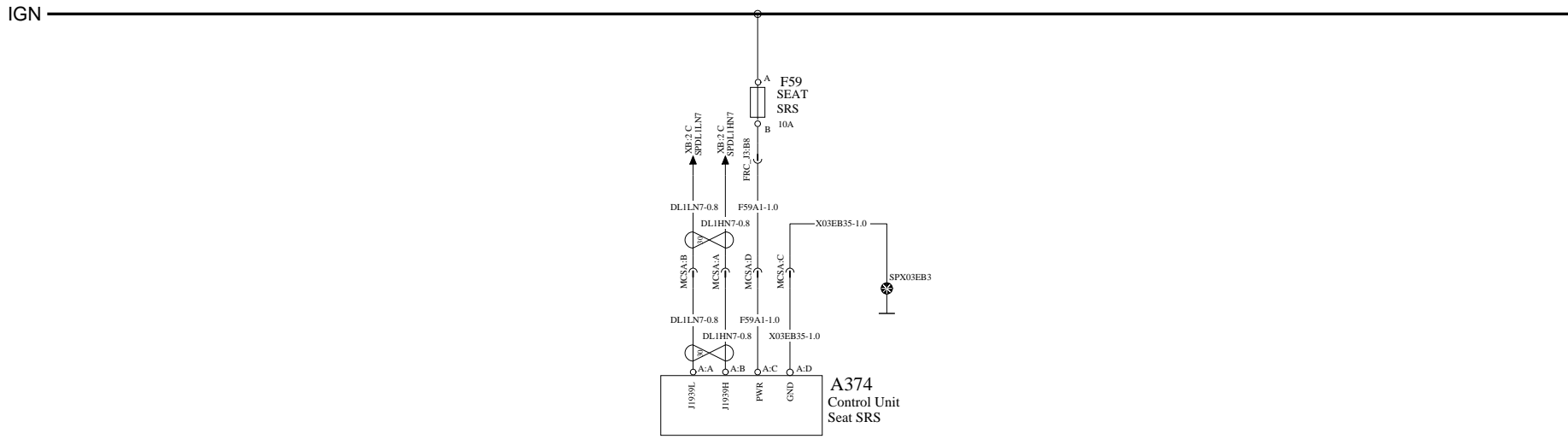
CIGAR LIGHTER / AUX POWER

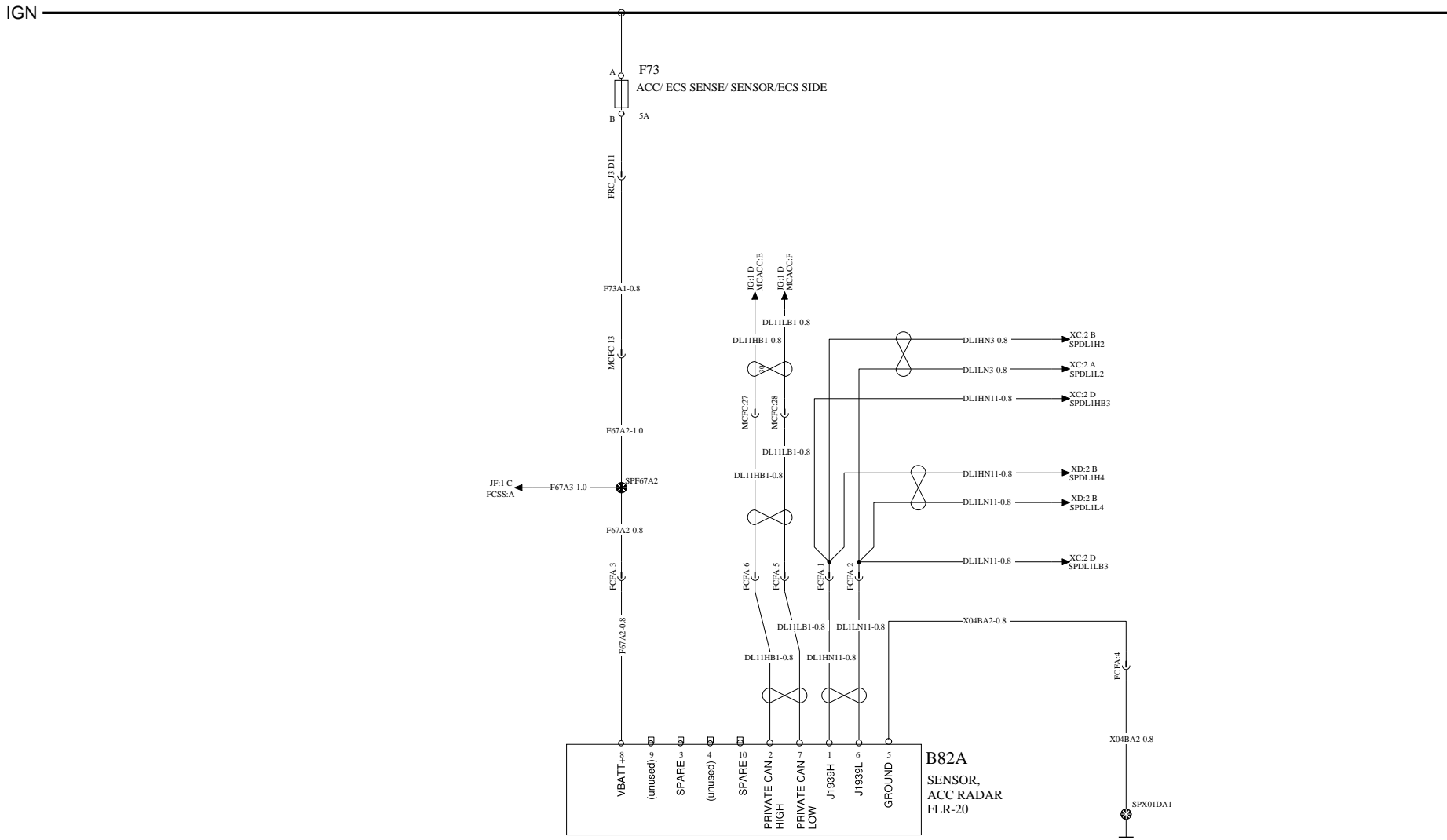
WIRING DIAGRAM: IK



SEAT SRS

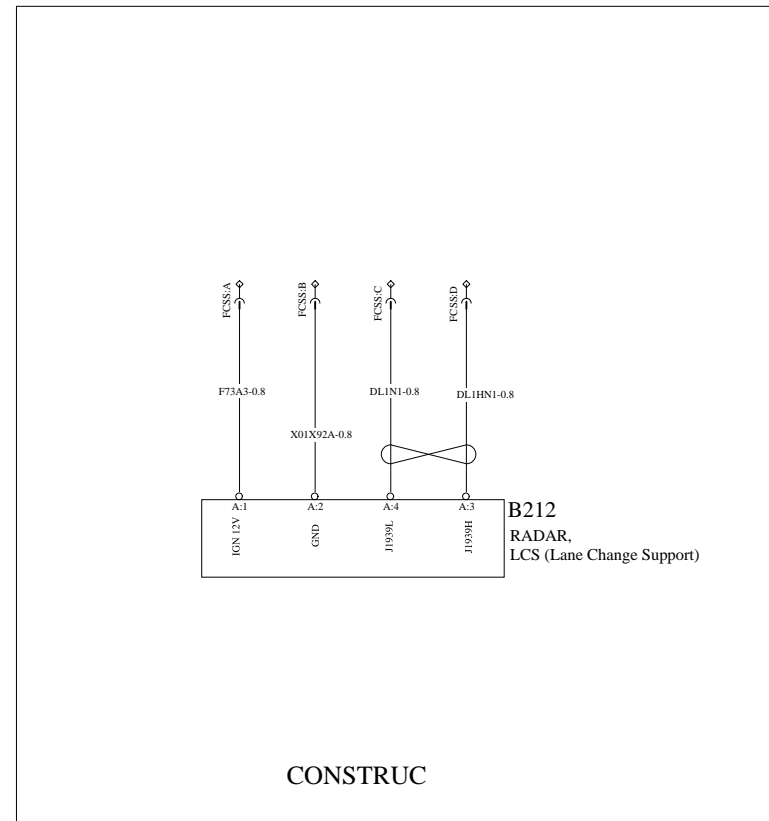
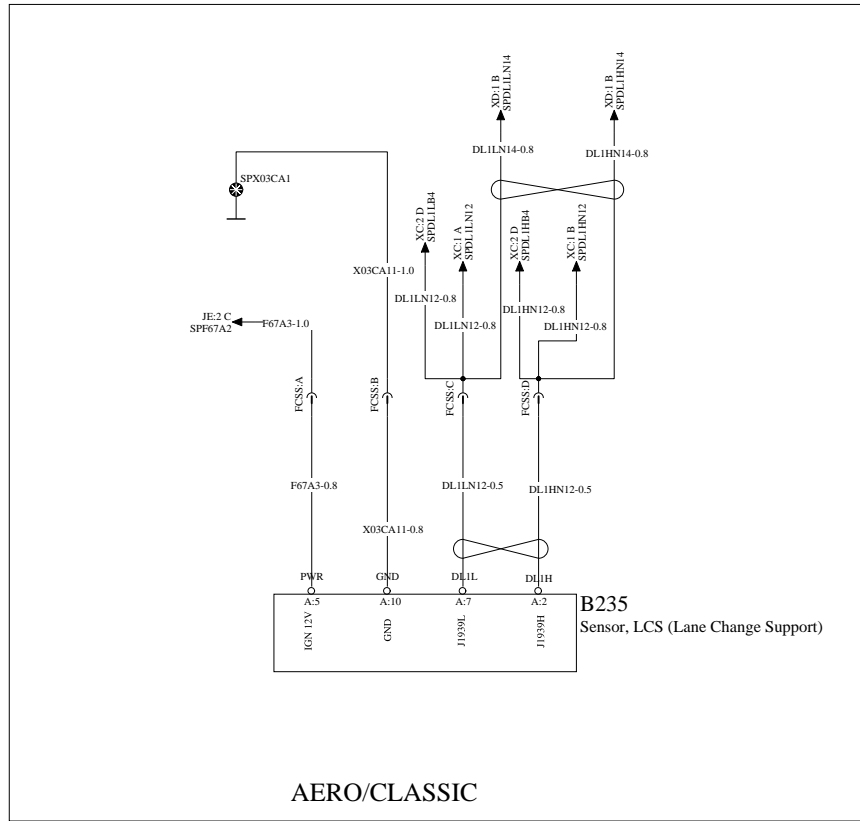
WIRING DIAGRAM: JA





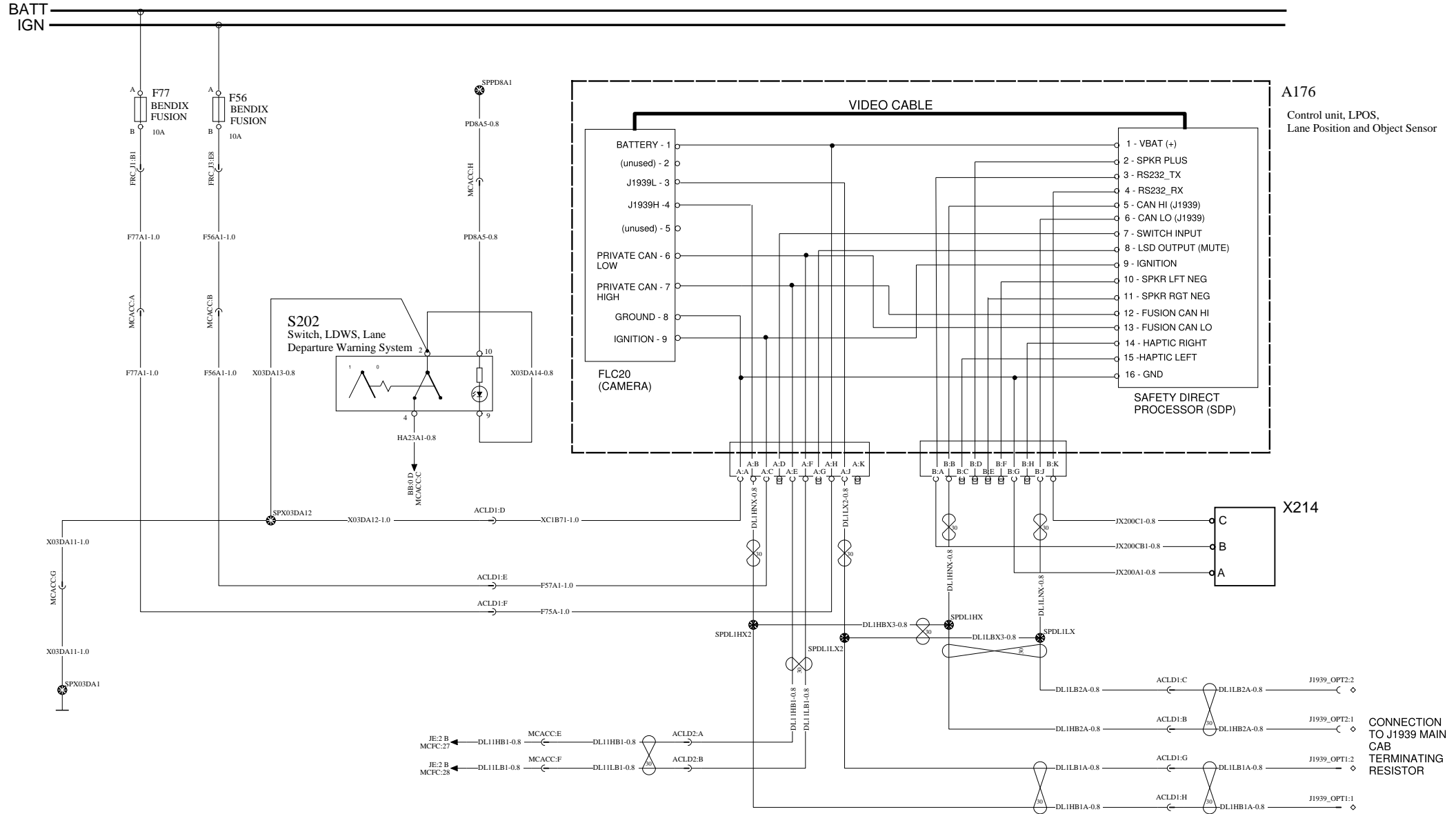
LANE CHANGE SUPPORT SYSTEM

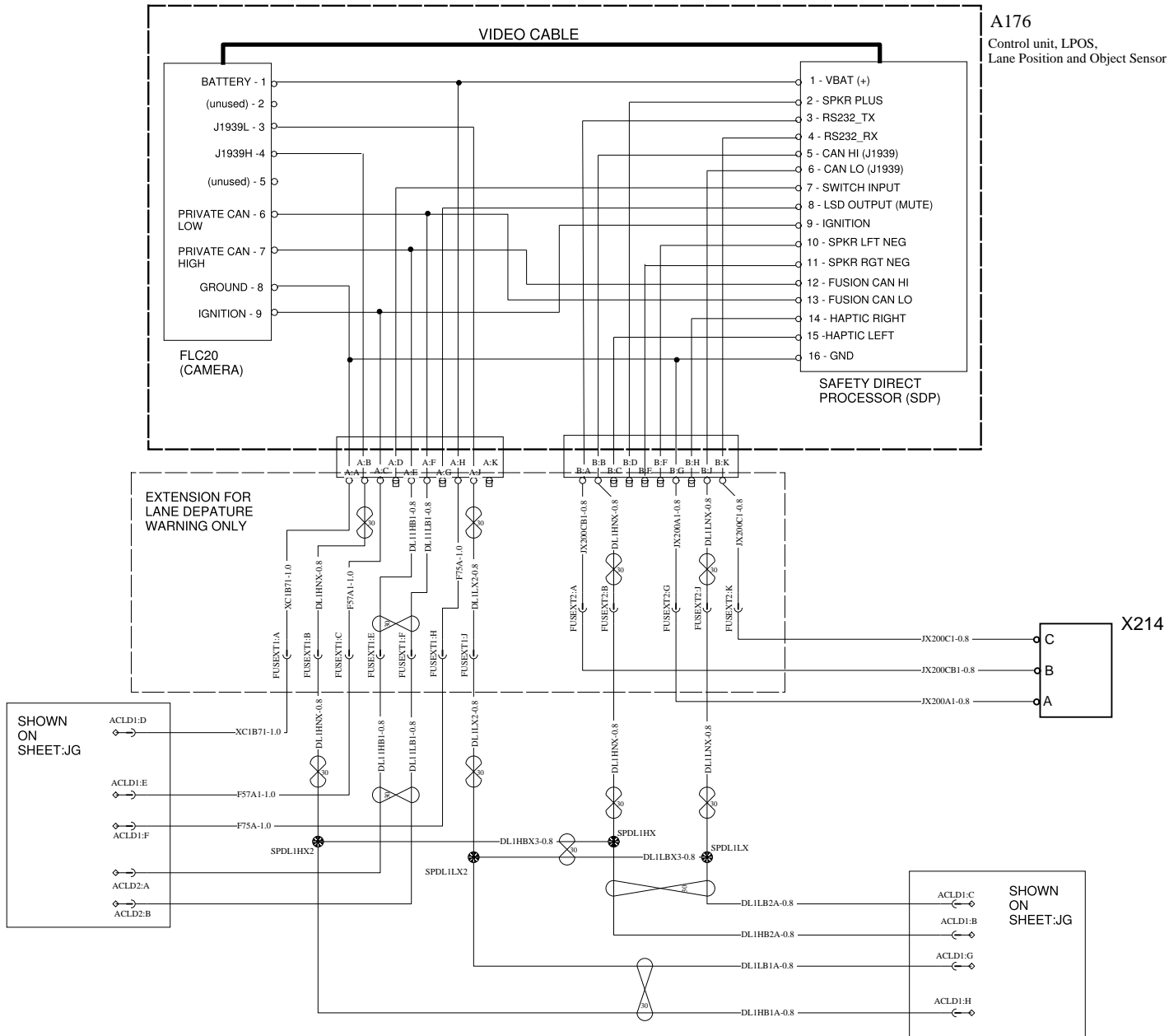
WIRING DIAGRAM: JF



LANE DEPARTURE WARNING -DAYCAB AND 48" SLEEPER

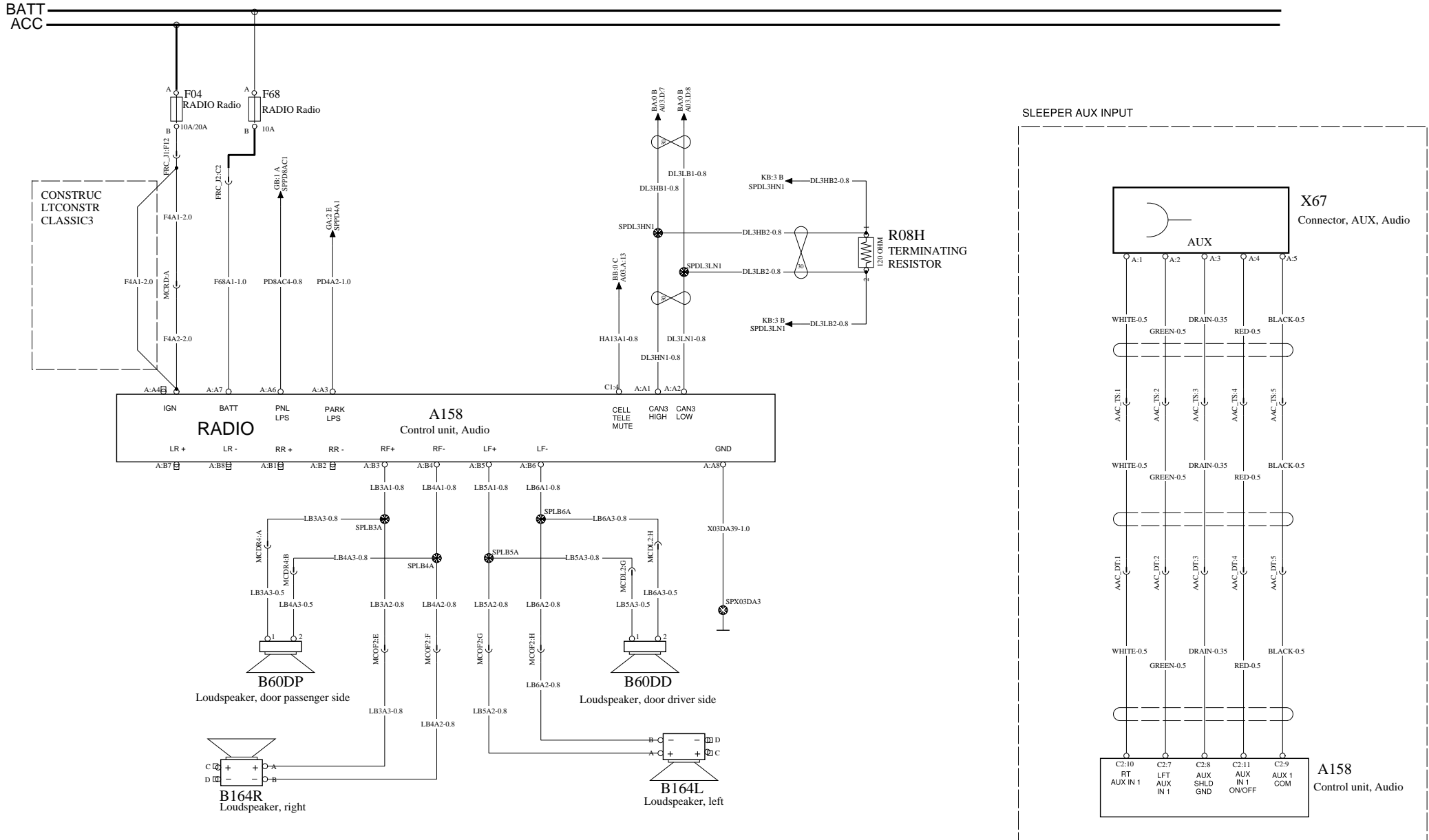
WIRING DIAGRAM: JG



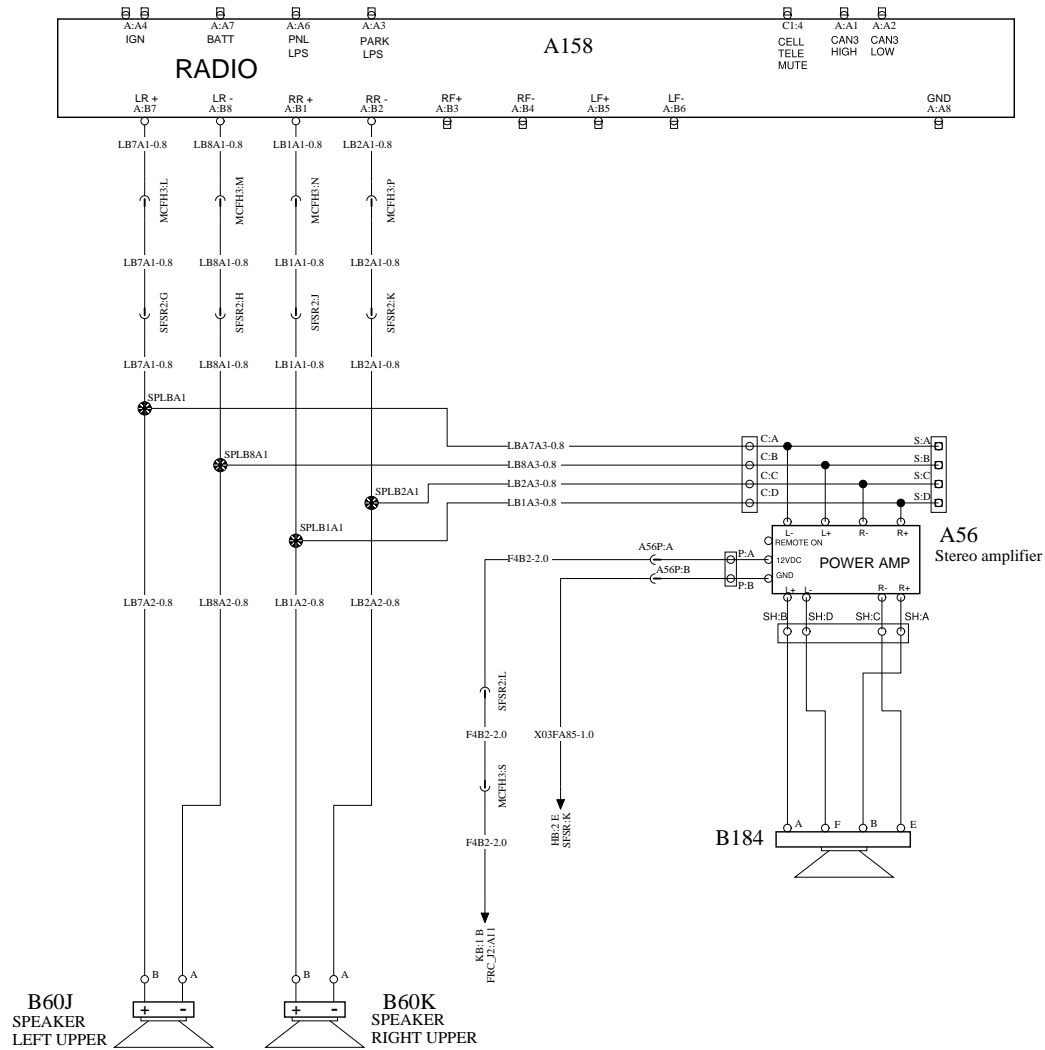


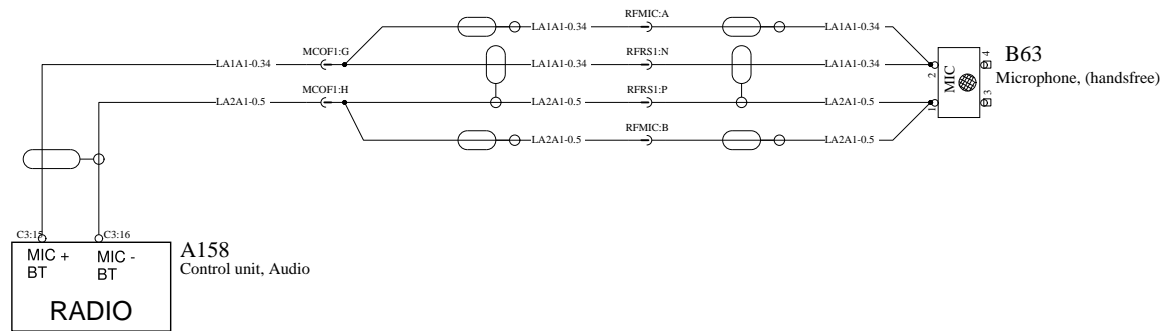
AUDIO SYSTEM - DAYCAB

WIRING DIAGRAM: KA

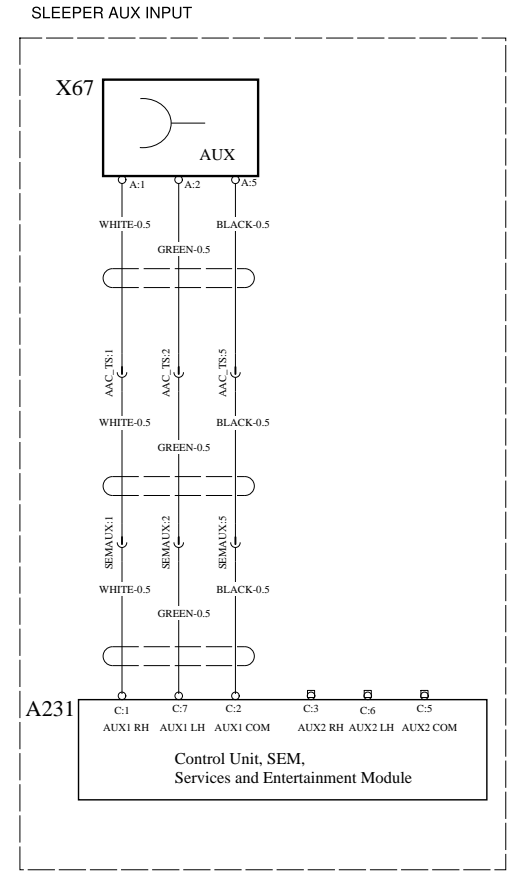
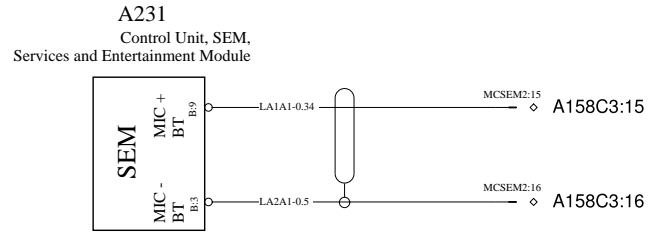
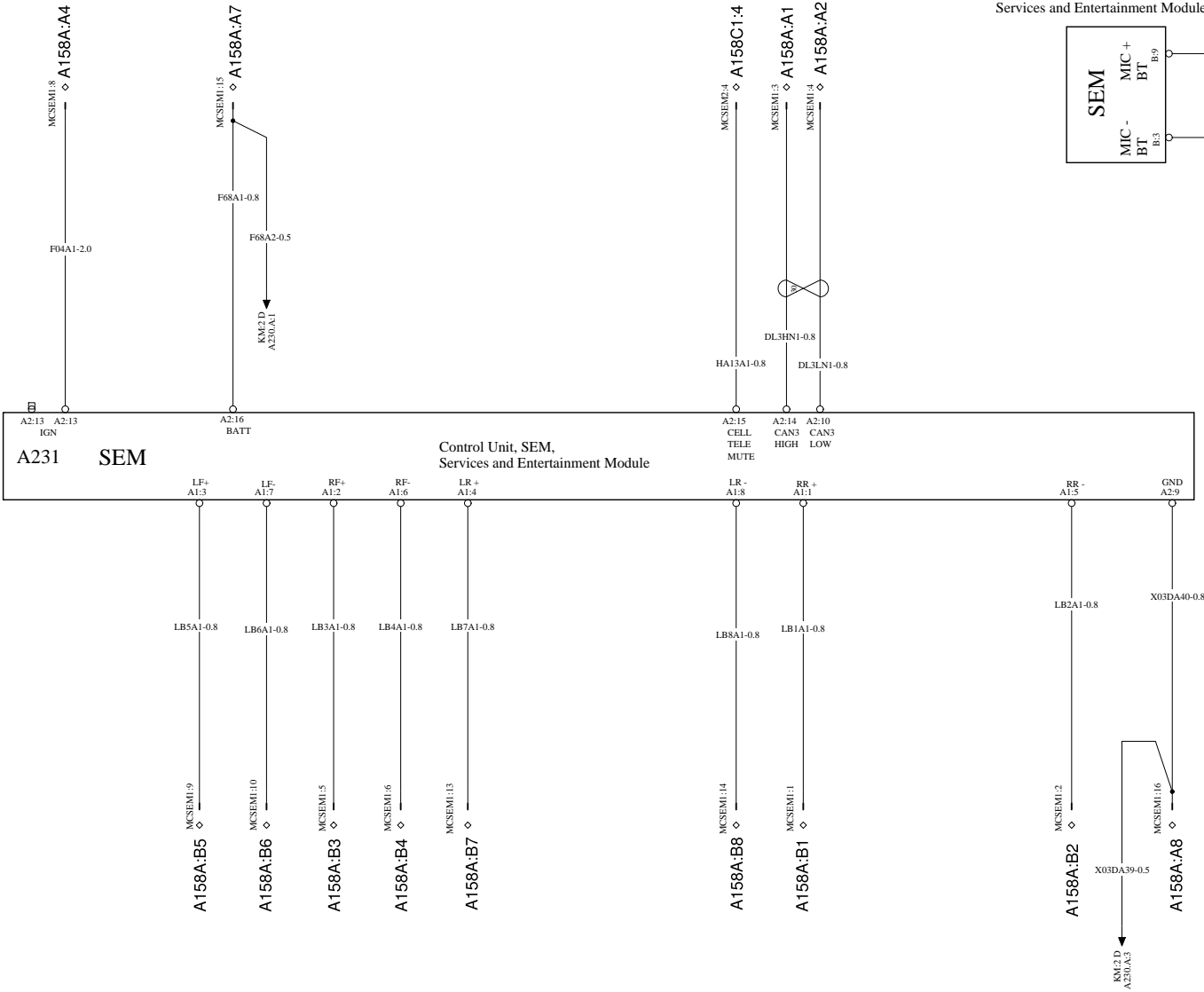


SEE SHEET KB
FOR OTHER CONNECTIONS

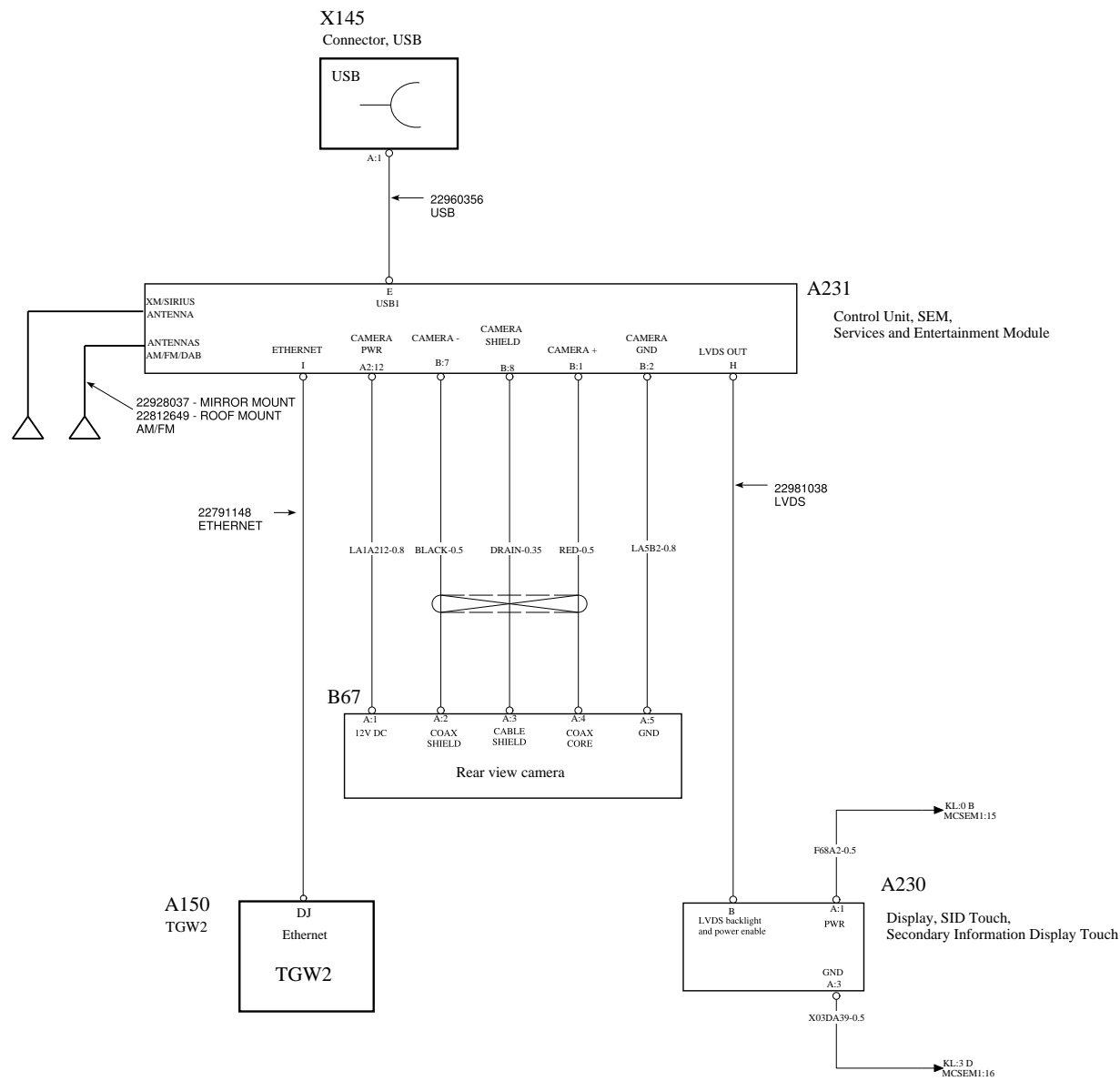




FOR CONNECTIONS TO MAIN CAB SEE AUDIO SYSTEM SCHEMATICS



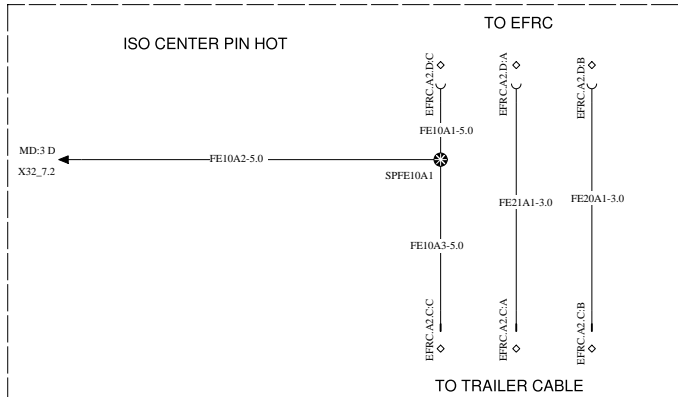
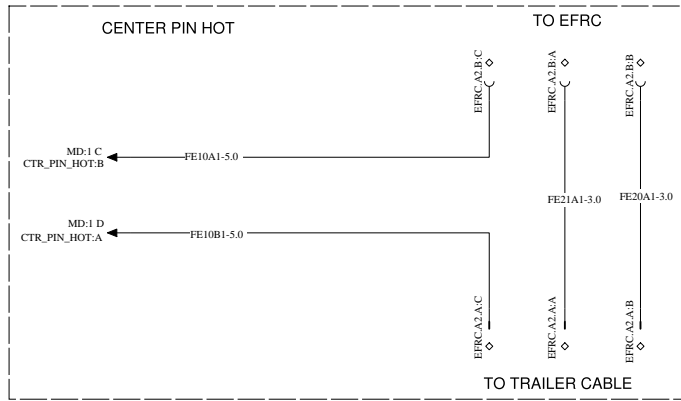
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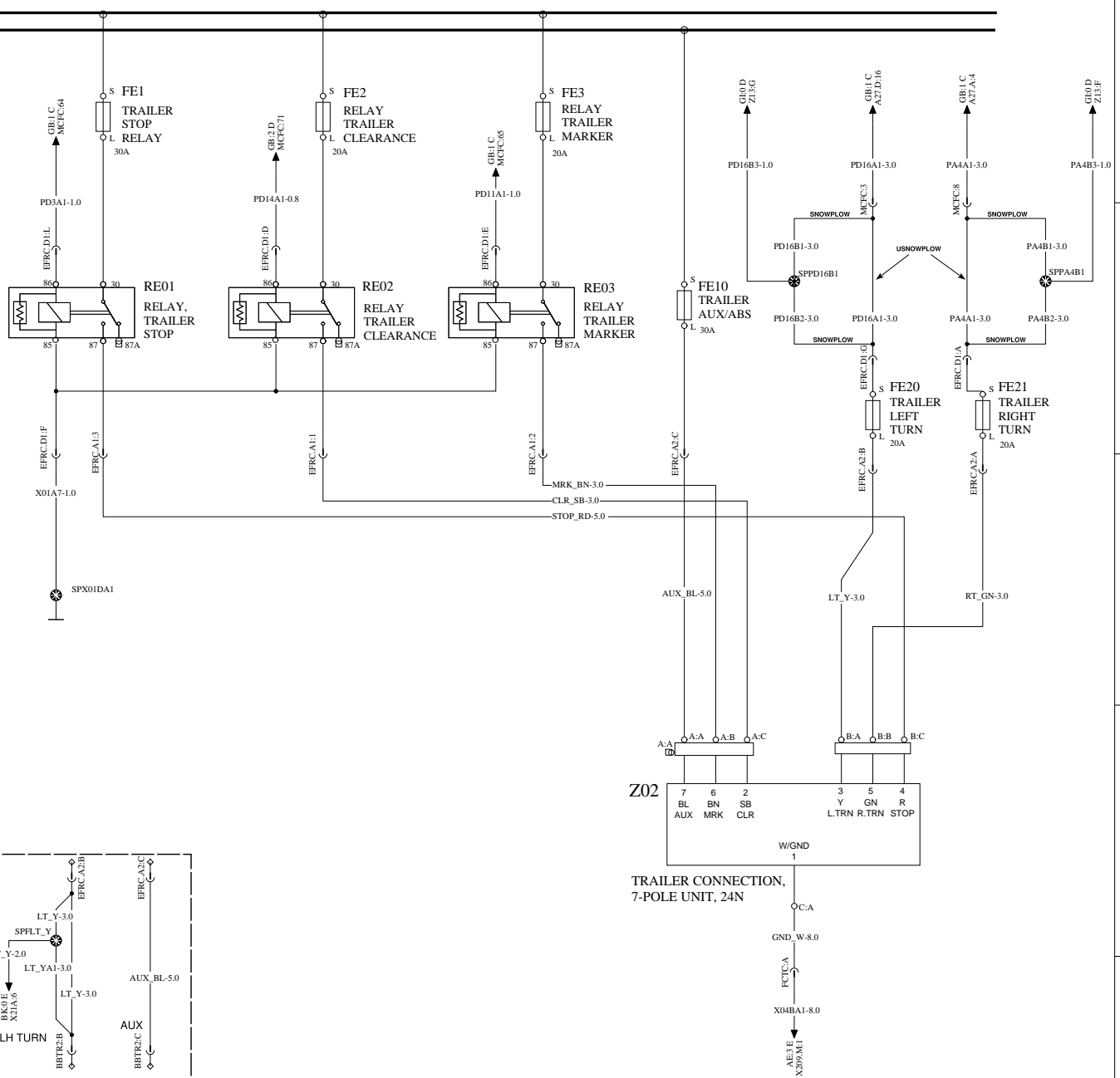
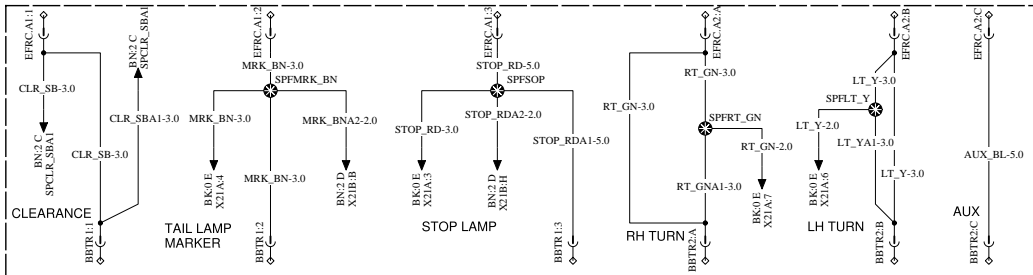
TRAILER CABLE

WIRING DIAGRAM: MA

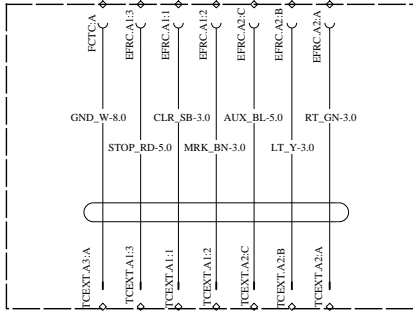
BATT
IGN



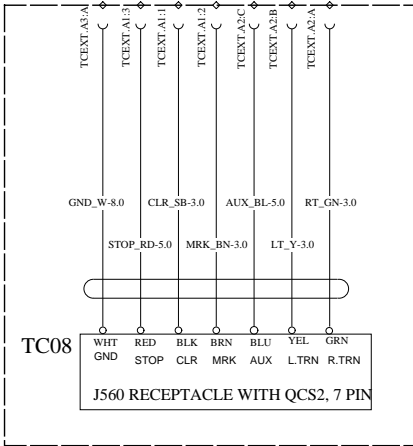
BODY BUILDER INTERCONNECTION



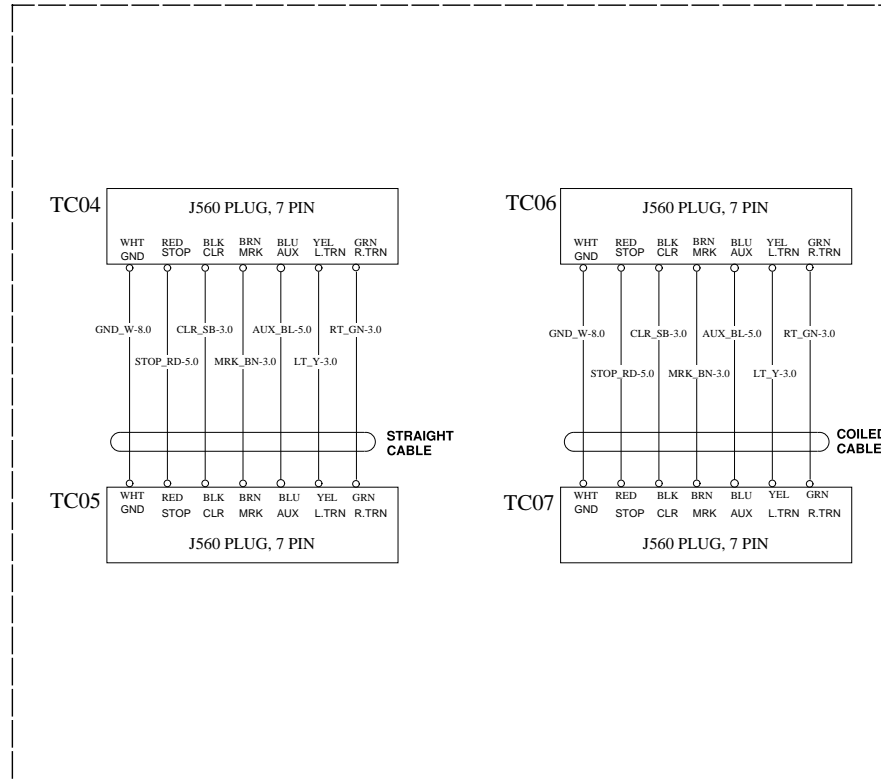
TRAILER CABLE EXTENSION CABLE



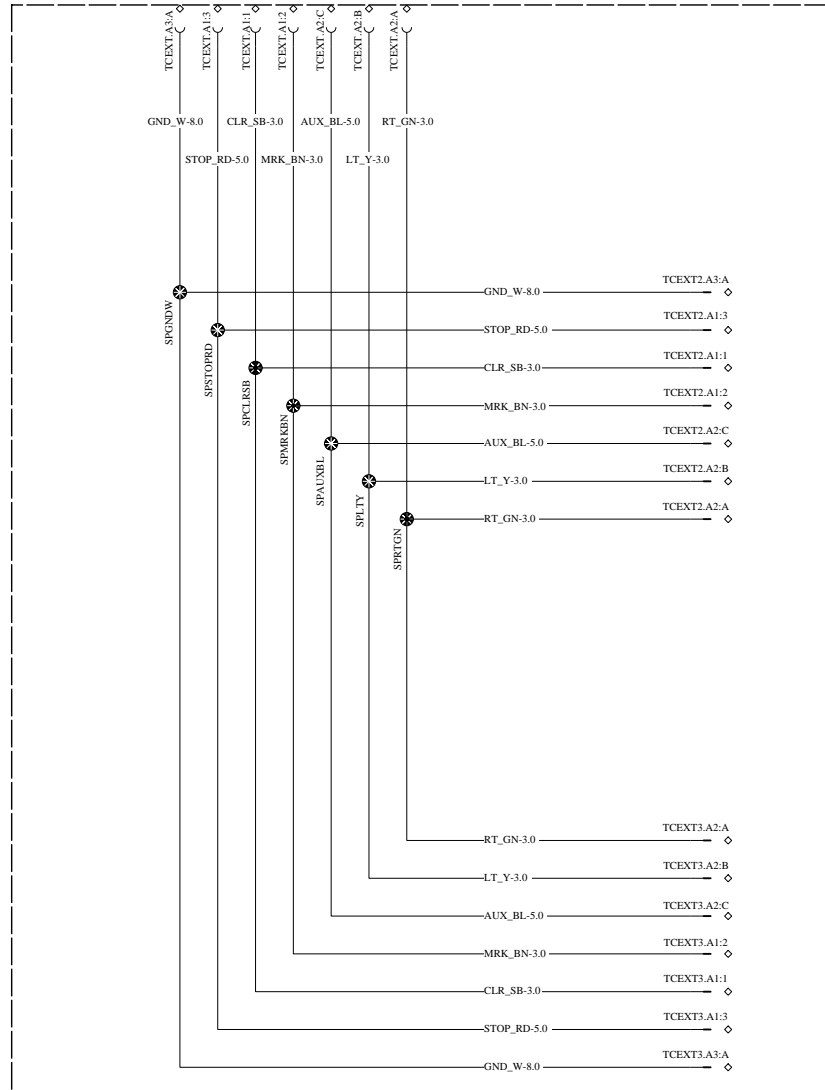
TRAILER CABLE EOF RECEPTACLE



DETACHABLE TRAILER CABLES
STRAIGHT / COILED

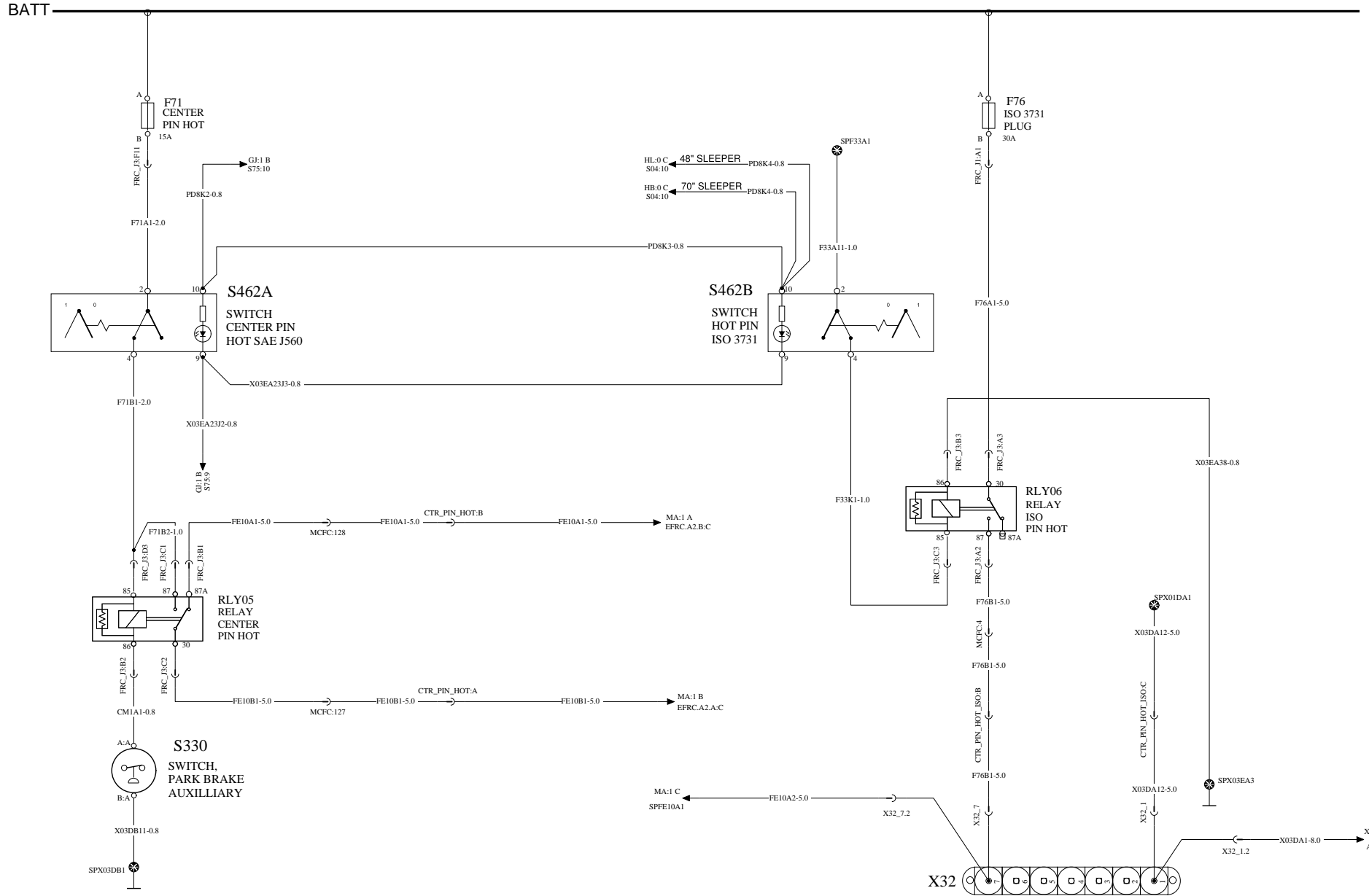


TRAILER CABLE BODY BUILDER
"Y" END OPTION



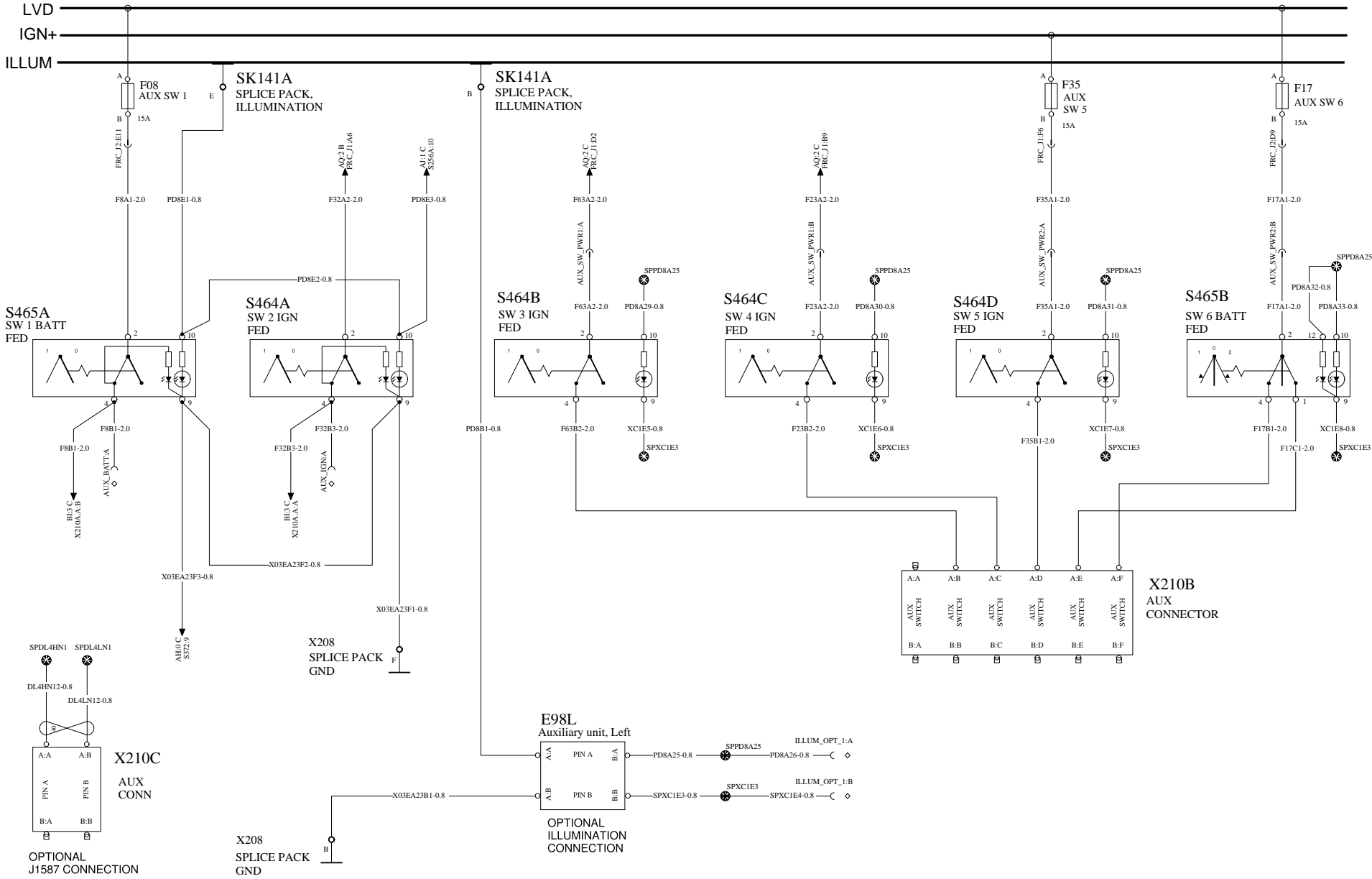
CENTER PIN HOT

WIRING DIAGRAM: MD



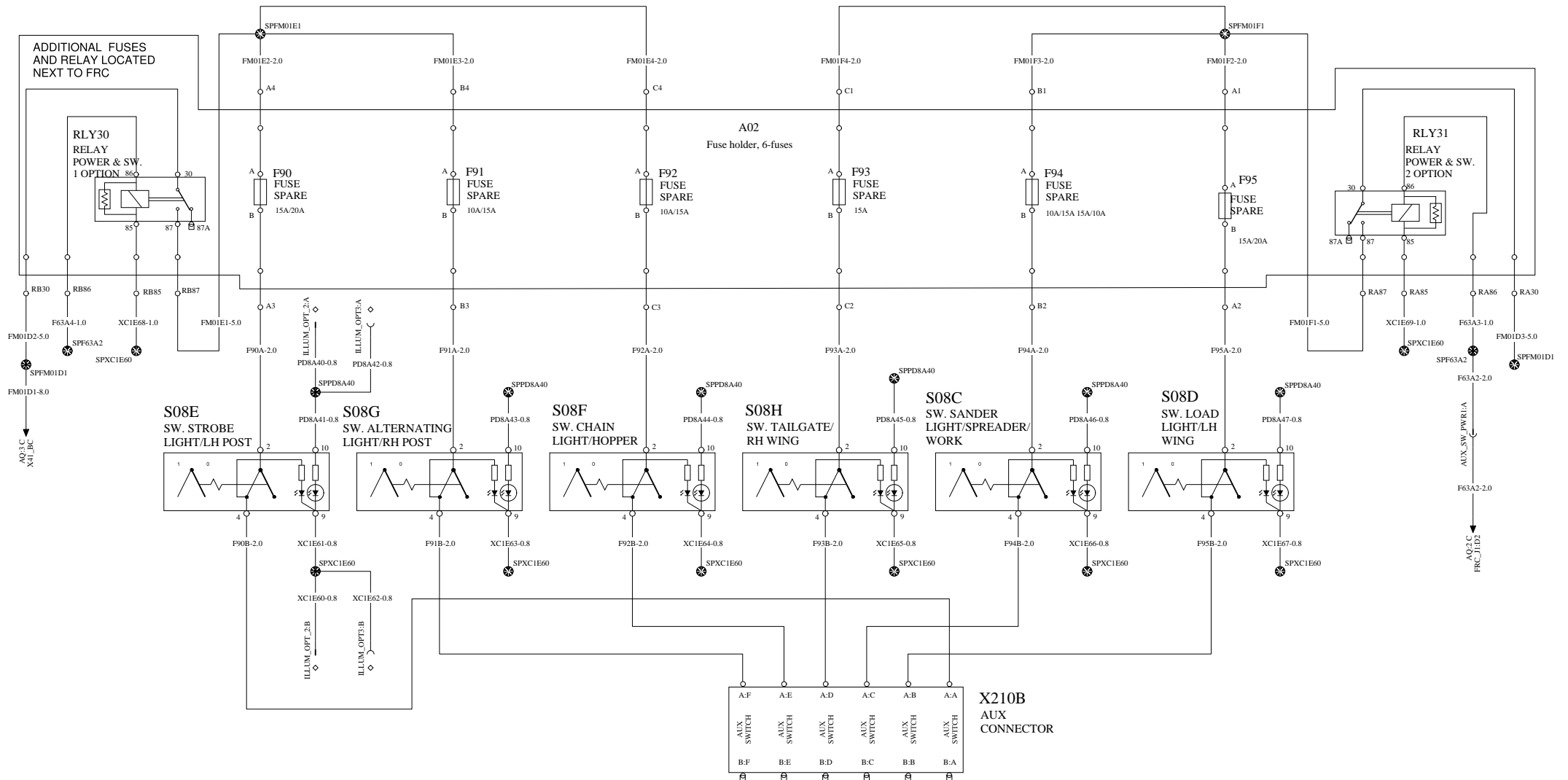
SPARE SWITCHES AND AUXSW-6 OPTION

WIRING DIAGRAM: NA



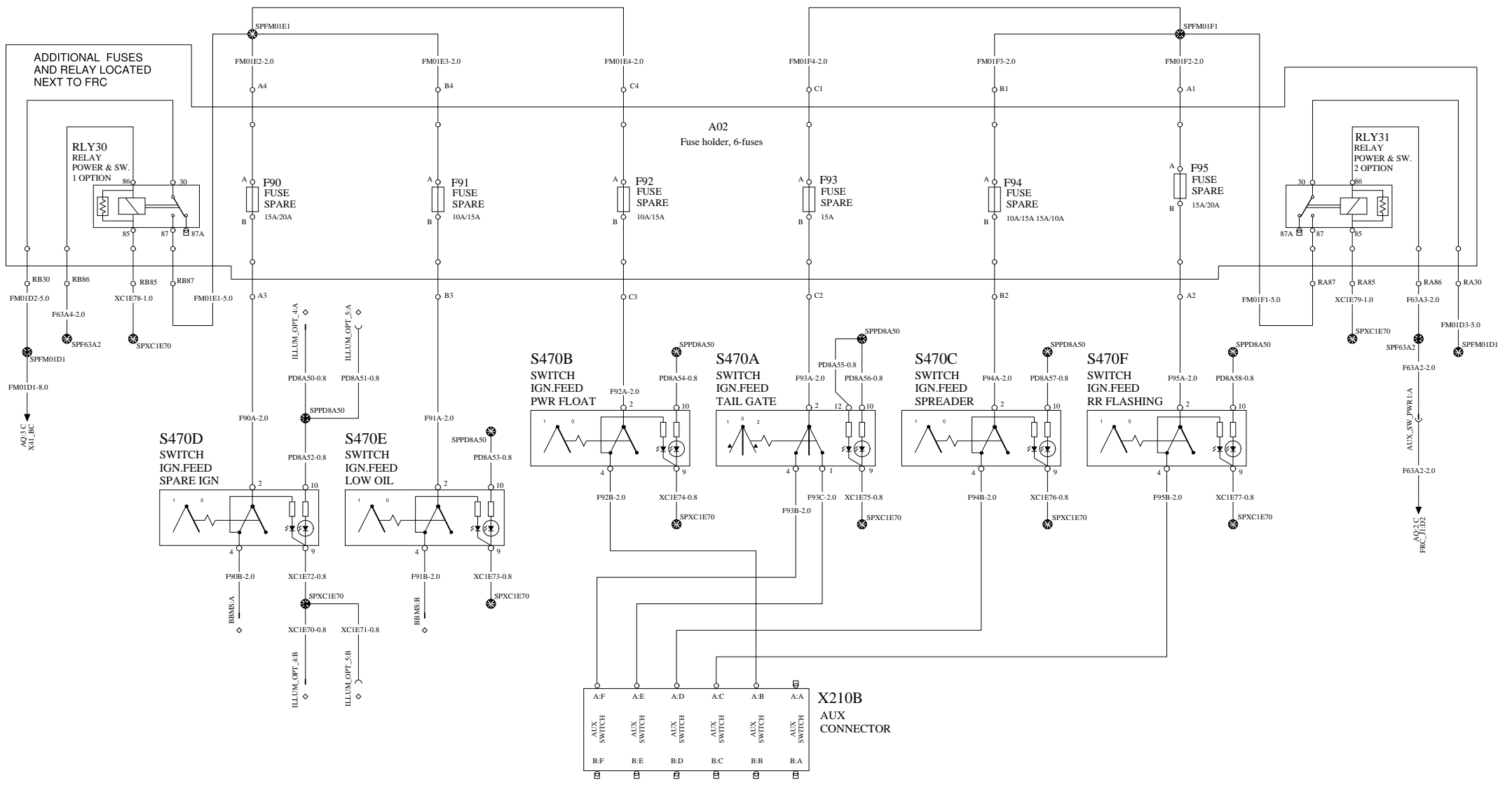
SPARE SWITCHES - AUXS-8BB

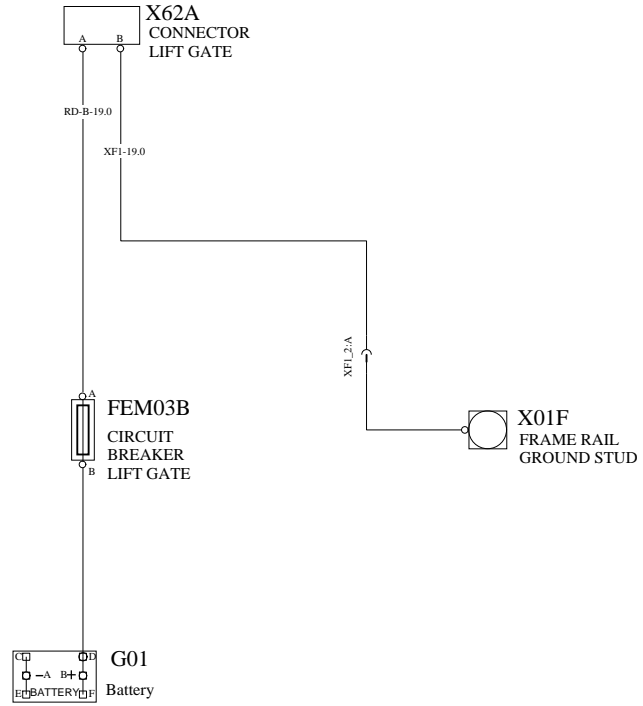
WIRING DIAGRAM: NB



SPARE SWITCHES - BBM-PK16

WIRING DIAGRAM: NC





BATT

