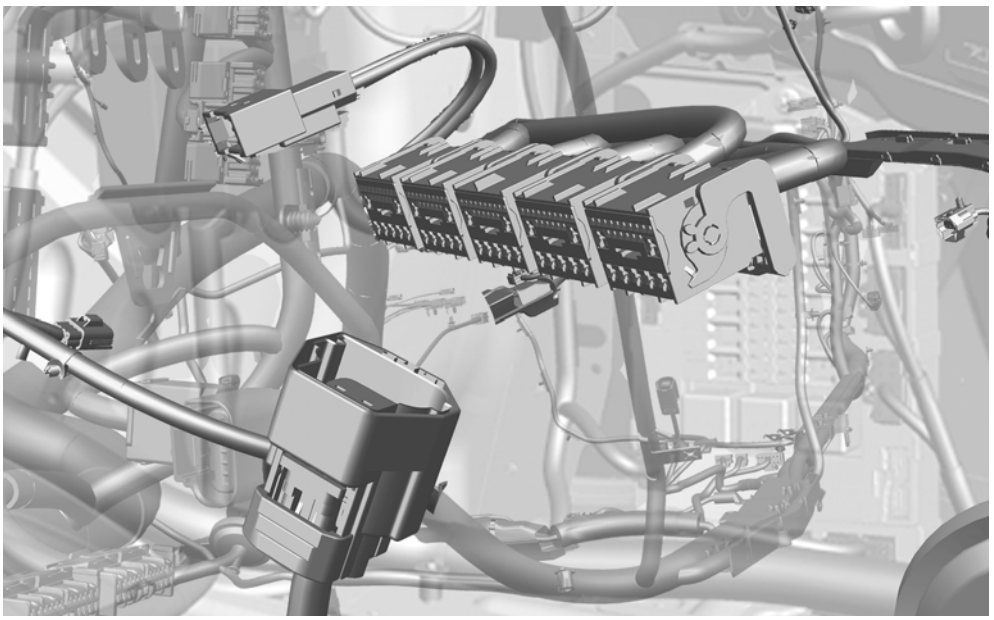
JAGUAR

Electrical Wiring Diagrams



XF

(1a) VIN: S20753 >

BY APPOINTMENT TO
HER MAJESTY QUEEN ELIZABETH II
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

BY APPOINTMENT TO
HIS ROYAL HIGHNESS THE PRINCE OF WALES
MANUFACTURERS OF DAIMLER AND JAGUAR CARS
JAGUAR CARS LIMITED COVENTRY

Electrical Wiring Diagrams

XF

(1a) VIN: S20753 >

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PREFACE

While every effort is made to ensure accuracy, design changes to the vehicle may be made in the period between the completion of this publication and the introduction of vehicles.

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Abbreviation	Description
ABS	Anti-lock braking system
ADRC	Adaptive damping
AFS	Adaptive front lighting system
AMP	Audio amplifier
AUTO	Automatic transmission
AUU	Portable audio interface
BSM	Blind spot monitoring
CAN	Controller area network
CVD	Continuously variable damping
DAB	Digital audio broadcasting
DSC	Dynamic stability control
D4	Diesel engine - Straight-four
DPF	Diesel particulate filter
DV6	Diesel engine - V6
DV8	Diesel engine - V8
EGR	Exhaust gas recirculation
EMS	Engine management system
ETS	Electronic transmission shift
FET	Field effect transistor
GPS	Global positioning system
HID	High intensity discharge
HS CAN	High speed controller area network bus
IC	Instrument cluster
IMT	Intake manifold tuning
IP	Instrument panel
PV6	Petrol engine - V6
PV8	Petrol engine - V8
PV8NA	Naturally aspirated engine - V8
PV8SC	Super charged engine - V8
LH	Left-hand
LIN	Local interconnect network
MAF/IAT	Mass air flow / intake air temperature
MS CAN	Medium speed controller area network bus
MMM	Navigation system module
N/A	Normally aspirated
NAS	North American specification
PDC	Park distance control
RF	Radio frequency
RH	Right-hand
SAI	Secondary air injection
SCL	Steering column locking
SDARS	Satellite digital audio receiver system
TPMS	Tire pressure monitoring system
TSD	Touch screen display
TV	Television
ULEV	Ultra low emission vehicle
USB	Universal serial bus
VICS	Vehicle information control system

USING THIS PUBLICATION

Health and safety

Always follow health and safety guidelines, specifically those detailed in the Workshop Manual.

Using this publication

The information provided in this publication is for use only by competent, qualified auto-electricians. Good product knowledge is assumed, as well as the ability to access and use recommended test equipment and other reference material provided.

Test equipment and other reference material

The information in this publication should be used in conjunction with the recommended test equipment; refer to Workshop Manual. Other reference material includes: Technical Service Bulletins (TSB) and the Workshop Manual.

The Electrical Reference Library (ERL) may also prove useful since it provides detailed connector information.

Battery disconnection and reconnection

It is imperative that any information relating to battery disconnection and reconnection is followed; refer to the appropriate sections in the Workshop Manual.

Fault Diagnosis

Always use the recommended test equipment for correct and reliable fault diagnosis, refer to the Workshop Manual.

Harness Repair

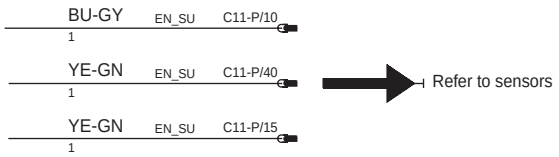
Repairs should only be undertaken for connectors where a Service Repair Kit is available; refer to the appropriate Electrical Reference Library (ERL).

Note: Fibre Optic circuits cannot be repaired; refer to the Workshop Manual.

Engine Harness In-line Connector Designations

It has been necessary to draw certain wiring diagrams to support and permit the sharing of common electrical harnesses, as a result the in-line connectors linking the engine compartment harness and the engine harness appear on separate pages.

In addition, it should be noted that the connector designations may not match; where this is the case, the matching connector designations are identified at the bottom right-hand side of the drawing, for example C11-P = C11-A. An arrow or a diamond is used to highlight the connectors that are affected by this convention.



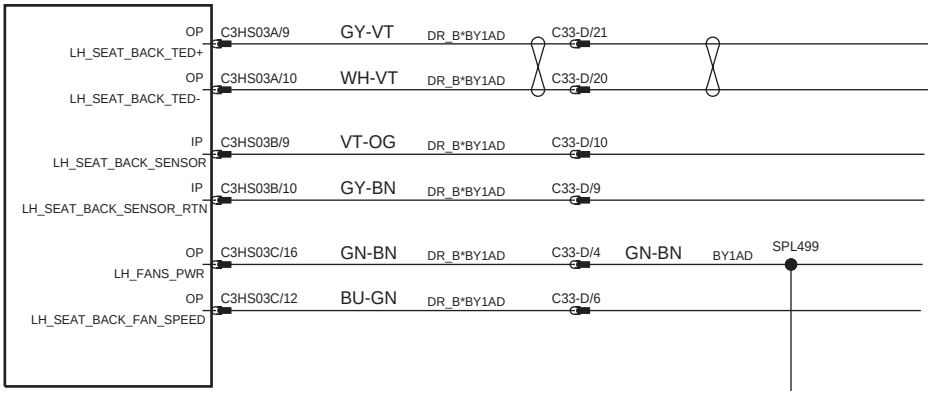
C11-P = C11-A
C11-N = C11-B
C11-M = C11-C

Section numbering

The sections in this publication are ordered to match the Global Outline numbering system as found in the current Workshop Manual. The Power and Ground distribution circuits can be found under section 414-01, BATTERY, MOUNTING AND CABLES.

Note: Where circuit diagrams show more than one sub-system, the circuit will be located in the section that carries the first-named sub-system, for example: Starting and Charging will be located under section 303-06 Starting System, since 'Starting' is the first-named sub-system.

Understanding the circuit diagrams



Connectors, Ground and Splices

Harnesses for the vehicle originate from a variety of different sources and therefore the connector nomenclature is inconsistent.

Wire Length

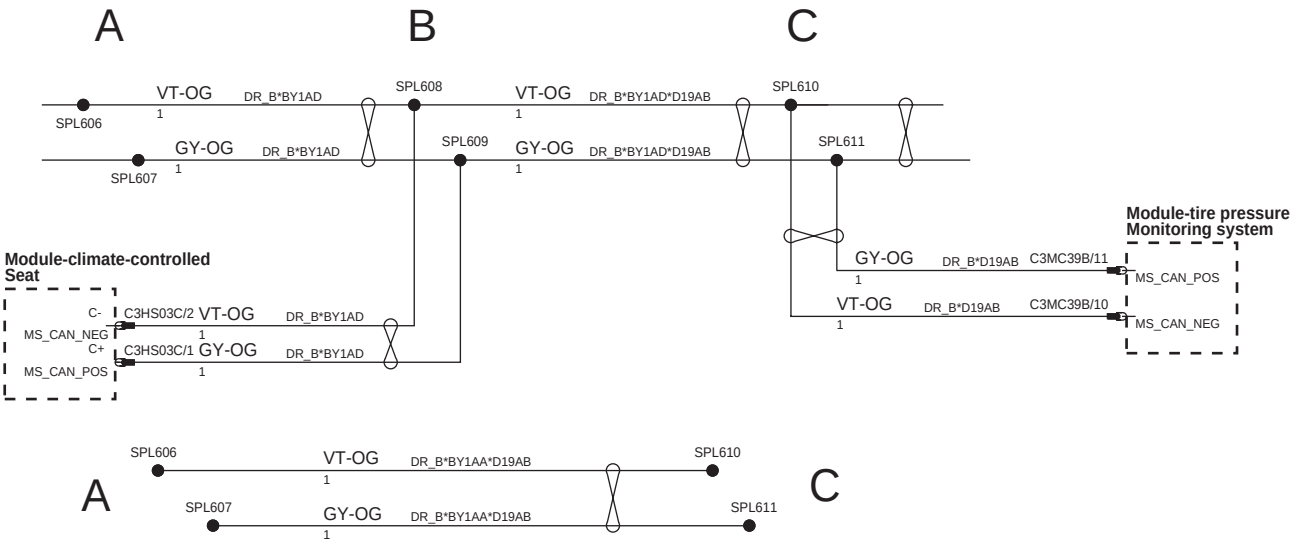
Wire length (where stated) is in millimeters and appear directly below the color code for each wire. Wire length values are displayed for LHD vehicles only, values for RHD vehicles may vary.

Twisted Wires

The 'figure-of-eight' symbol indicates that wires are twisted together.

By-pass Wires

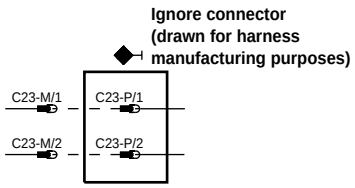
Vehicles are customized to suit market or customer selected options. To reduce the number of circuits drawn, by-pass wires are shown. By-pass wires are identified by large, upper case letters designed to correspond with the alternative connection arrangement; refer to figure below.



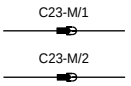
Connector Designation

Certain connectors have been drawn for harness manufacturing purposes only. In Example 1, the left-hand connector is always used, the connector drawn to the right-hand side of the dotted line is a dummy connector which should be ignored; refer to Service Interpretation 1.

Example 1:

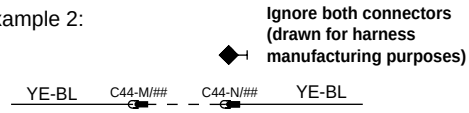


Service Interpretation 1:

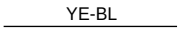


Example 2 depicts that some pairs of connectors have also been drawn for harness manufacturing purposes, these connectors do not appear in the vehicle and therefore should be ignored; refer to Service Interpretation 2.

Example 2:



Service Interpretation 2:



Control Module Pins

B+	Battery voltage
C–	CAN negative
C+	CAN positive
D	Data
GND	Ground
GREF	Sensor / signal ground **
IP	Input signal
LIN	Local interconnect network
MOST_RX	MOST receive
MOST_TX	MOST transmit
NEG	Negative
OP	Output signal
P	Power ground
POS	Positive
PWR	Power
SW	Switch
VBATT	Battery voltage
VREF	Sensor / signal supply V *

*May also indicate Reference Voltage.
**May also indicate Reference Ground or Logic Ground.

Wire Codes

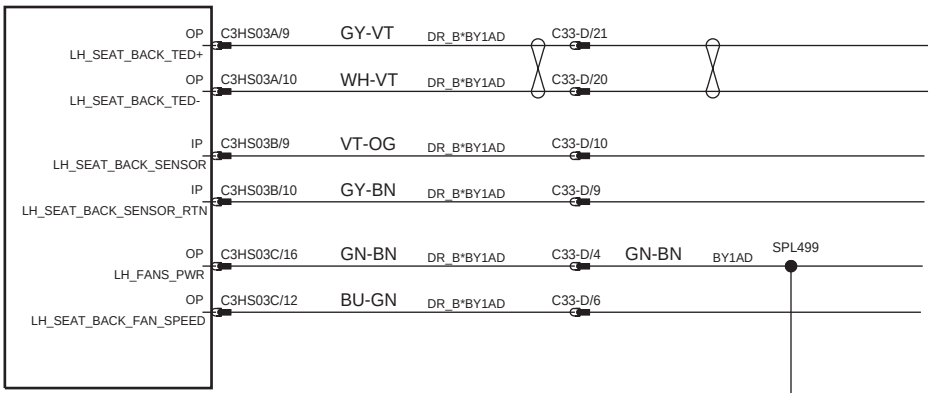
CODE	COLOR
BK or B	BLACK
BN or N	BROWN
BU or U	BLUE
GN or G	GREEN
GY or S	GREY
OG or O	ORANGE
OPT	FIBER OPTIC
PK or K	PINK
RD or R	RED
SCR	SCREEN BRAID
VT or P	PURPLE
WH or W	WHITE
YE or Y	YELLOW

Option Code

A code identifying an optional wiring arrangement, for example BY1AD, may be allocated to certain wires; refer to the Option Code Table.

The asterisk (*) represents ‘and’; the colon (:) represents ‘or’; for example:
DR_B*BY1AD, represents: left-hand drive AND heated & cooled seats

IBYAD*IESAB:IBYAC*IESAB, represents: satellite digital audio AND television OR digital audio AND television.



Option Code Table

Cct	Vehicle Option or Feature
2W_LUM	2way lumbar
A2CAA	without secondary air injection
A2CAB	secondary air injection
A2CAC	secondary air injection map sensor
A2EAA	without USB
A2EAB	USB
A3RAA	without deployable bonnet
A3RAB	deployable bonnet
ADJ_BOL	adjustable bolster
B3MAB	heated front screen
BDAAD	power rear sunblind
BPW	brake pad wear
BSBAF	electrochromic interior mirror
BSHDF	fold back mirrors
BY1AA	without heated seats
BY1AC	heated seats
BY1AD	heated & cooled seats
BYPAM	10way drivers seat movement
BYPAN	16way drivers seat movement
BYQAH	12way passengers seat movement
BYRAA	without programmable drivers seat
BYRAB	programmable drivers seat
CBAAB	power door locks
CBAAD	power dead locks
CBGAG	keyless entry
CBGAJ	without keyless entry
CFKAB	headlamp washer
CHAAL	power tilt/slide sunroof
CP5AB	beltminder
CP5AC	occupancy sensing
D19AA	without TPMS
D19AB	TPMS
DR_B	LHD
DR_D	RHD
DWMAA	without ADRC
DWMAB	ADRC
DWMAC	Continuously variable damping

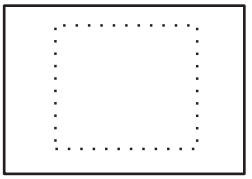
Cct	Vehicle Option or Feature
EGJAE	without electronic differential
EGJAL	electronic differential
EM_N	ULEV 2 requirements
EN_A5	2.7L diesel engine
EN_AJ	4.2L PV8NA engine
EN_AK	4.2L PV8SC engine
EN_RX	5.0L PV8NA engine
EN_RY	5.0L PV8SC engine
EN_SU	3.0 DV6 engine
EN_WD	3.0 PV6 engine
G1DAA	without smog sensor
G1DAB	smog sensor
GRBAA	without steering column lock
GRBAB	steering column lock
GTBAA	without heated steering wheel
GTBAB	heated steering wheel
GTDAB	speed control
GTDAD	adaptive stop/go speed control
HKCAA	without navigation
HKCAB	navigation
HKCAD	traffic master
HKCAF	VICS
HLLAA	without blindspot monitoring
HLLAC	blindspot monitoring
HNHAB	battery backed security siren
HNHAC	passive sounder
HNLAB	front parking aid
IBUAB	bluetooth phone
IBYAB	analog audio
IBYAC	digital audio
IBYAD	satellite digital audio
IBYAH	IBOC
IDAAA	standard ice
IDAAB	premium ice
IDAAR	hi line ice
IESAA	without television
IESAB	television
IF9AB	voice activated controls
J3GAA	without electronic road pricing
J3GAB	electronic road pricing
J3KAA	without park aid camera
J3KAB	park aid camera
JBBAB	halogen headlamps
JBBAC	hid headlamps
JEAAC	automatic headlamp leveling
NO_EN_AK	without 4.2L SC engine
NO_HD	without IBOC
NO_OCS	without occupant classification system
NO_SAIMAP	without secondary air injection map sensor
NO_TMC	without TMC
NO_VICS	without VICS

Component Depictions

Example:

1.

2.



3.

1. Complete Components and Control Modules
2. Incomplete Components
3. Components with Internal Electronic Components

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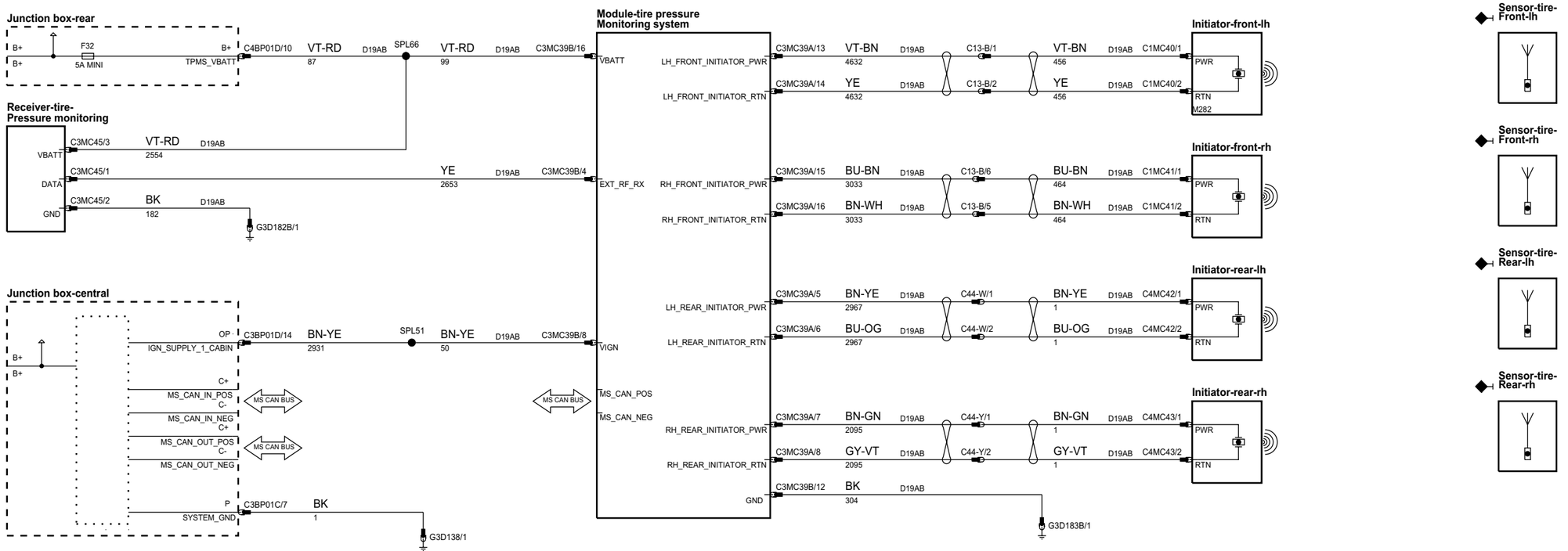

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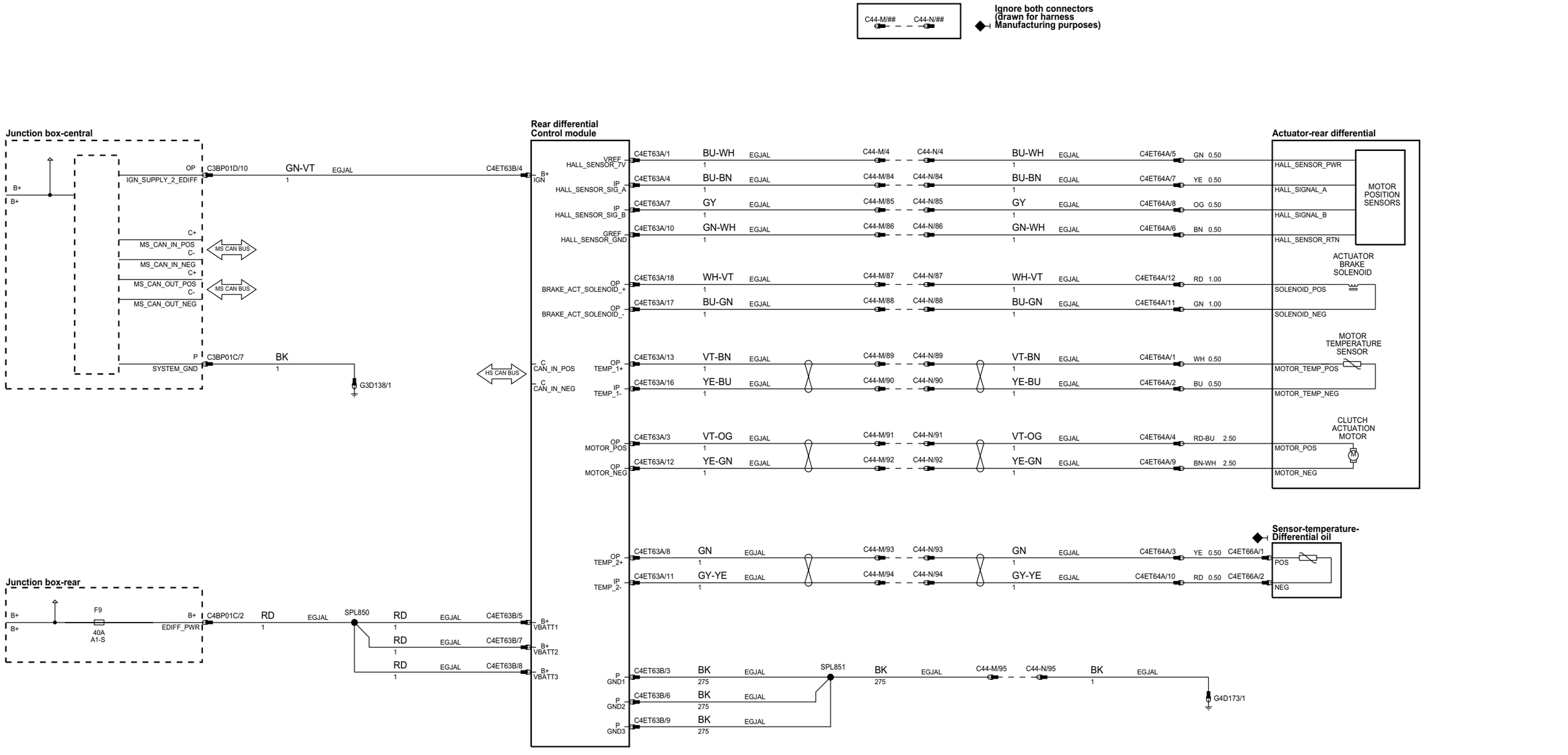

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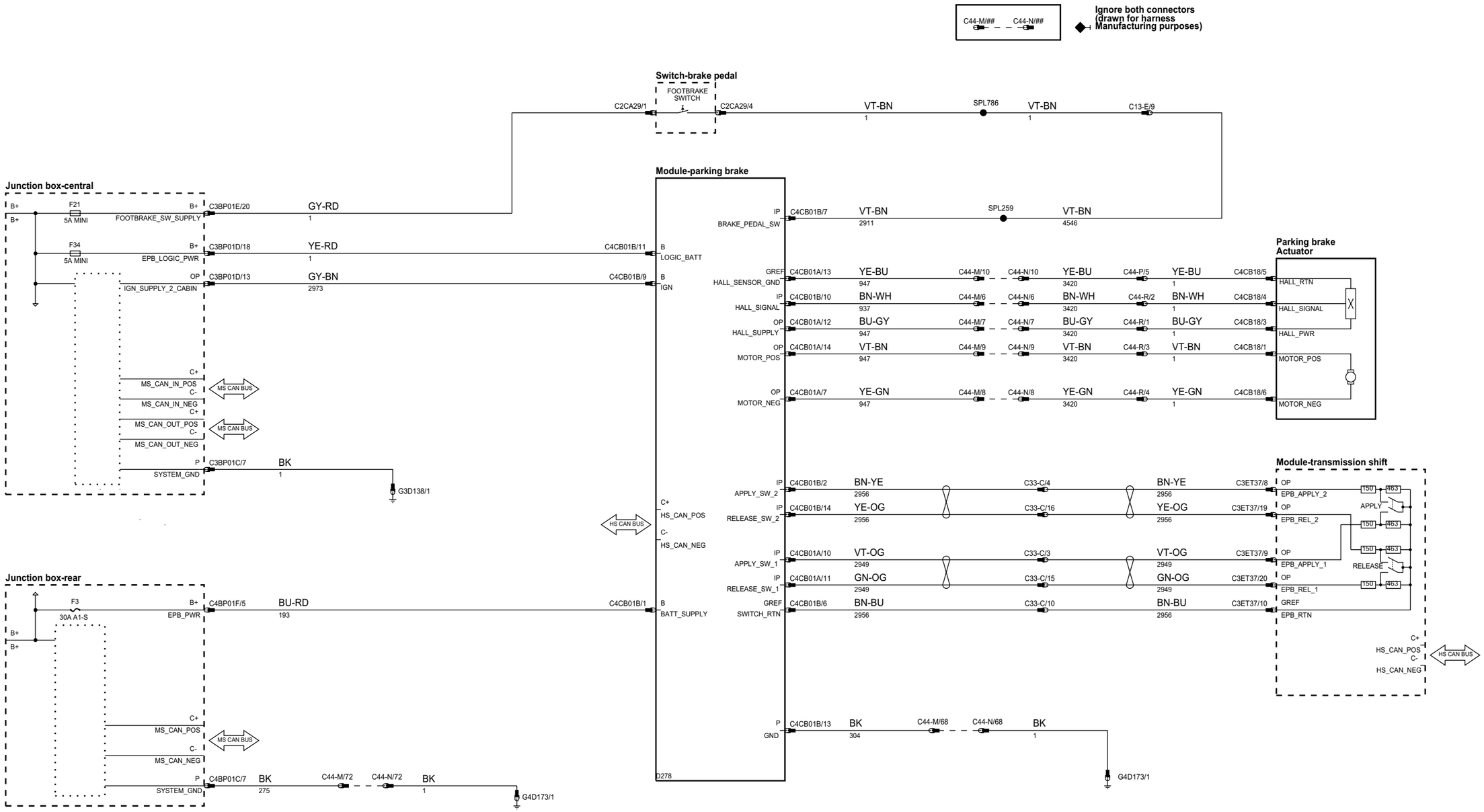

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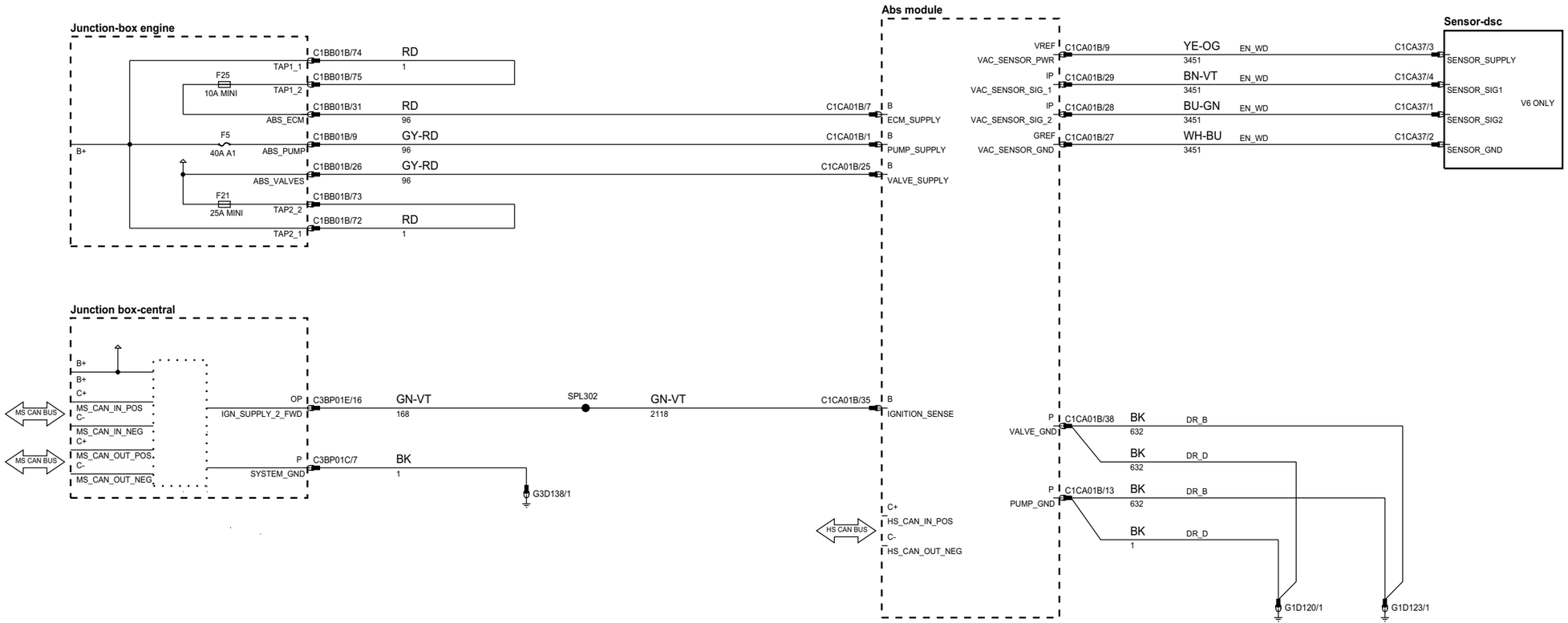

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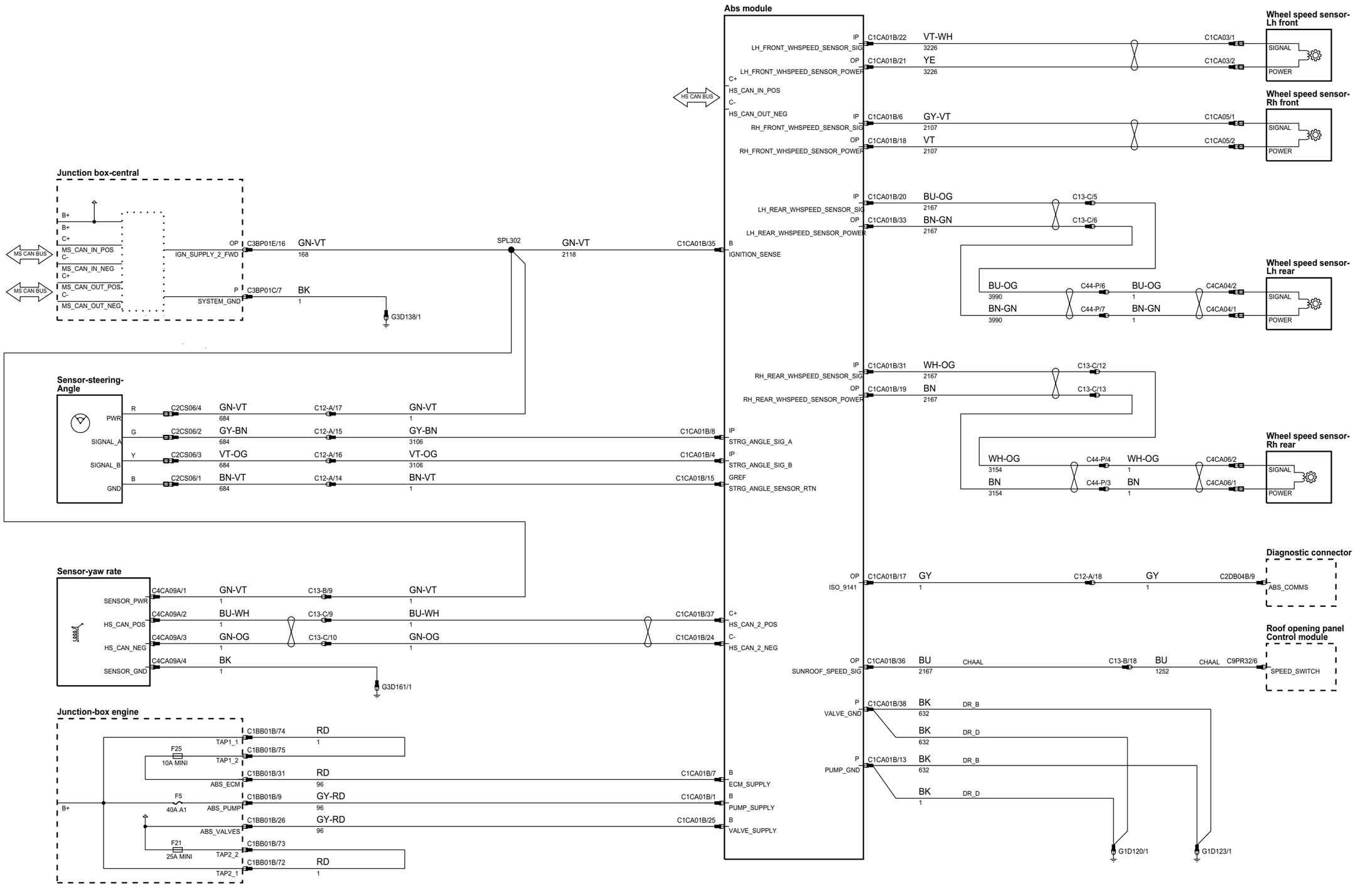

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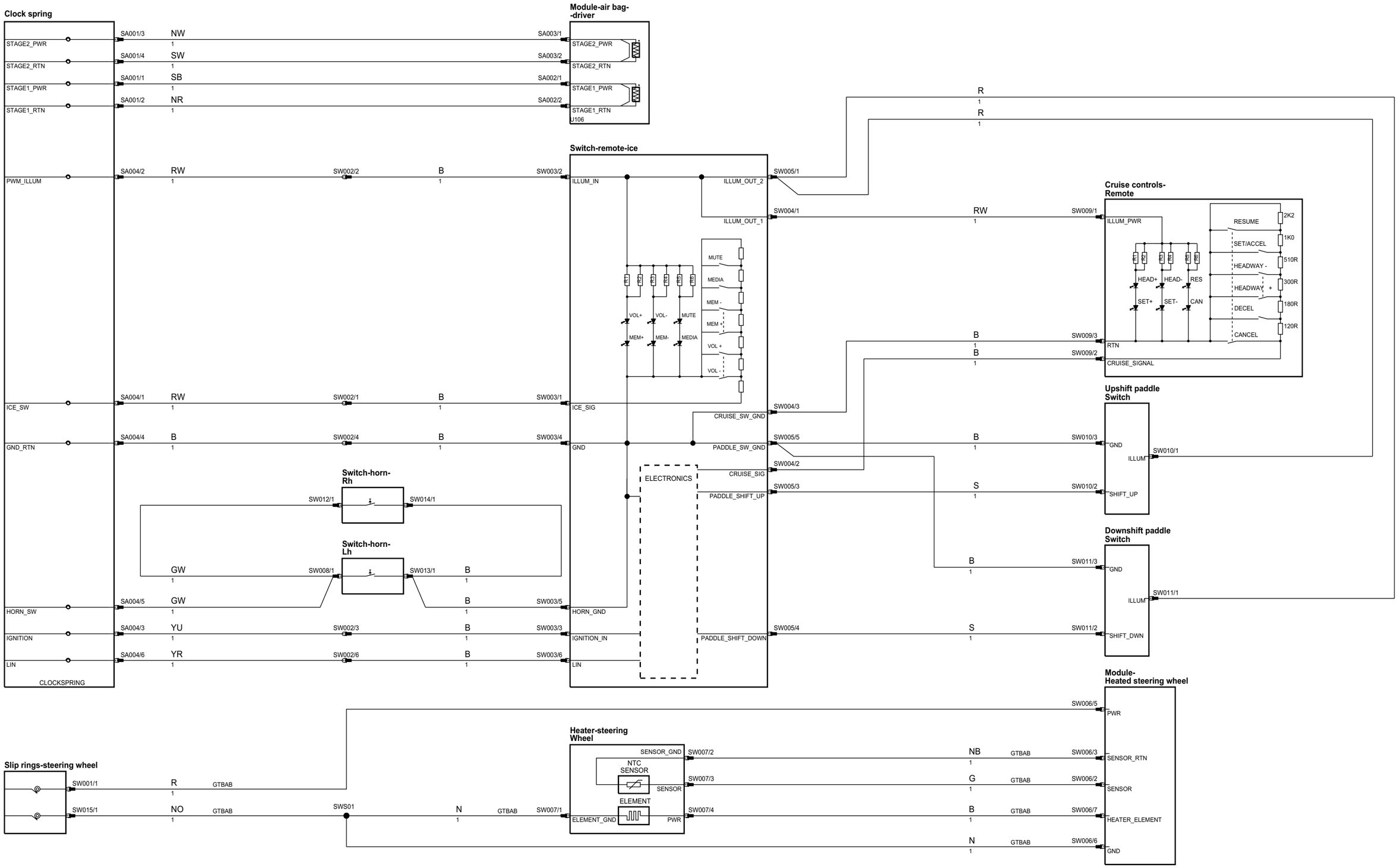

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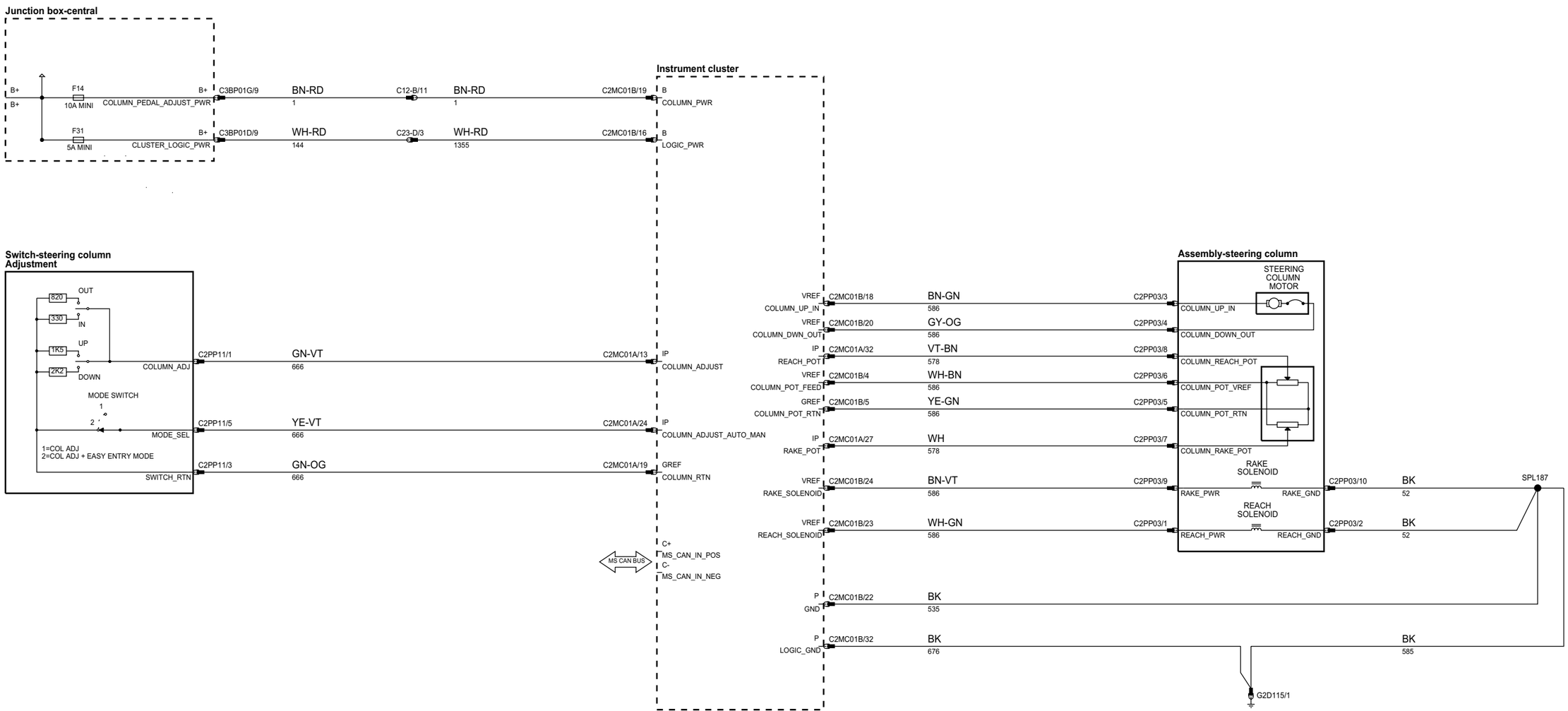

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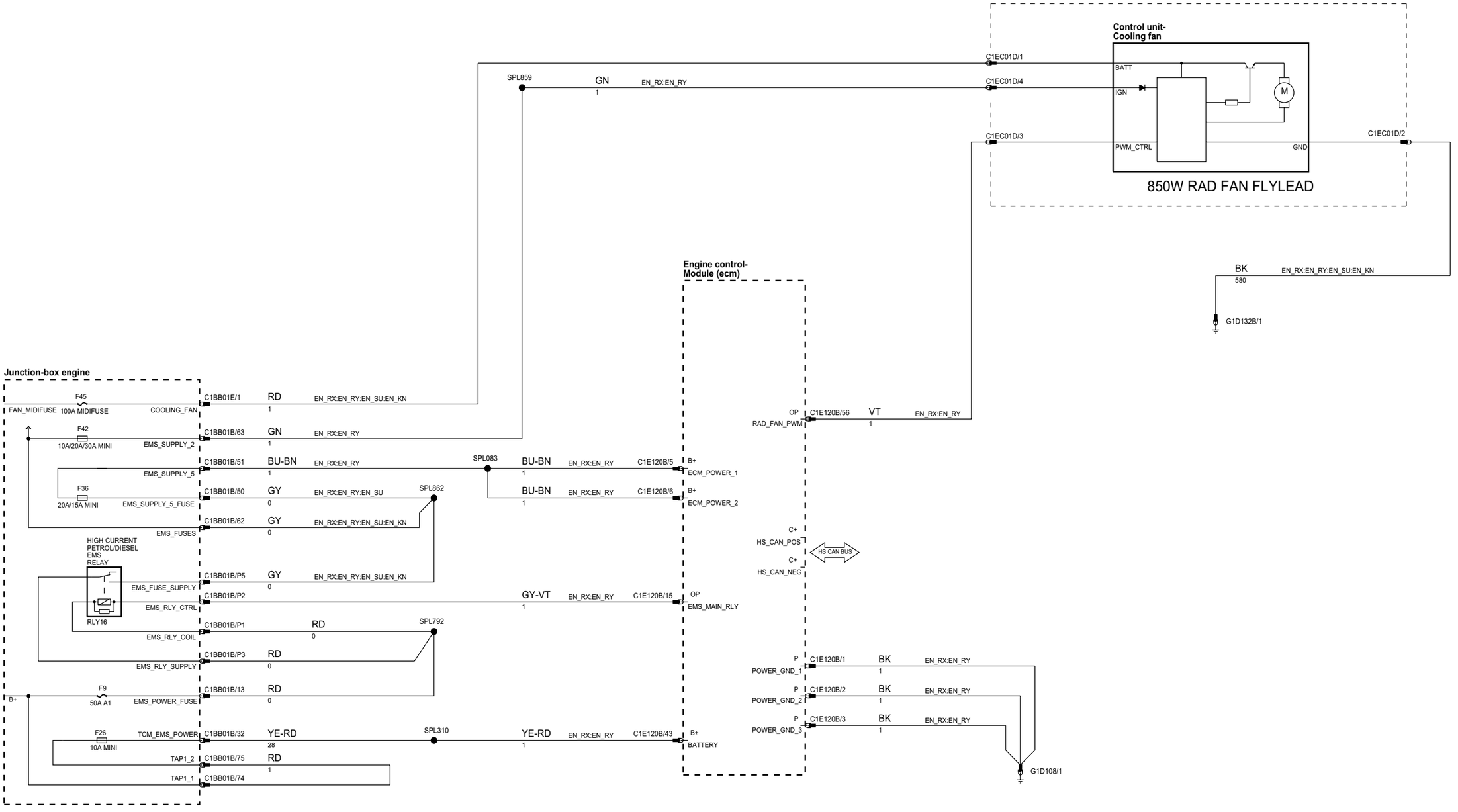

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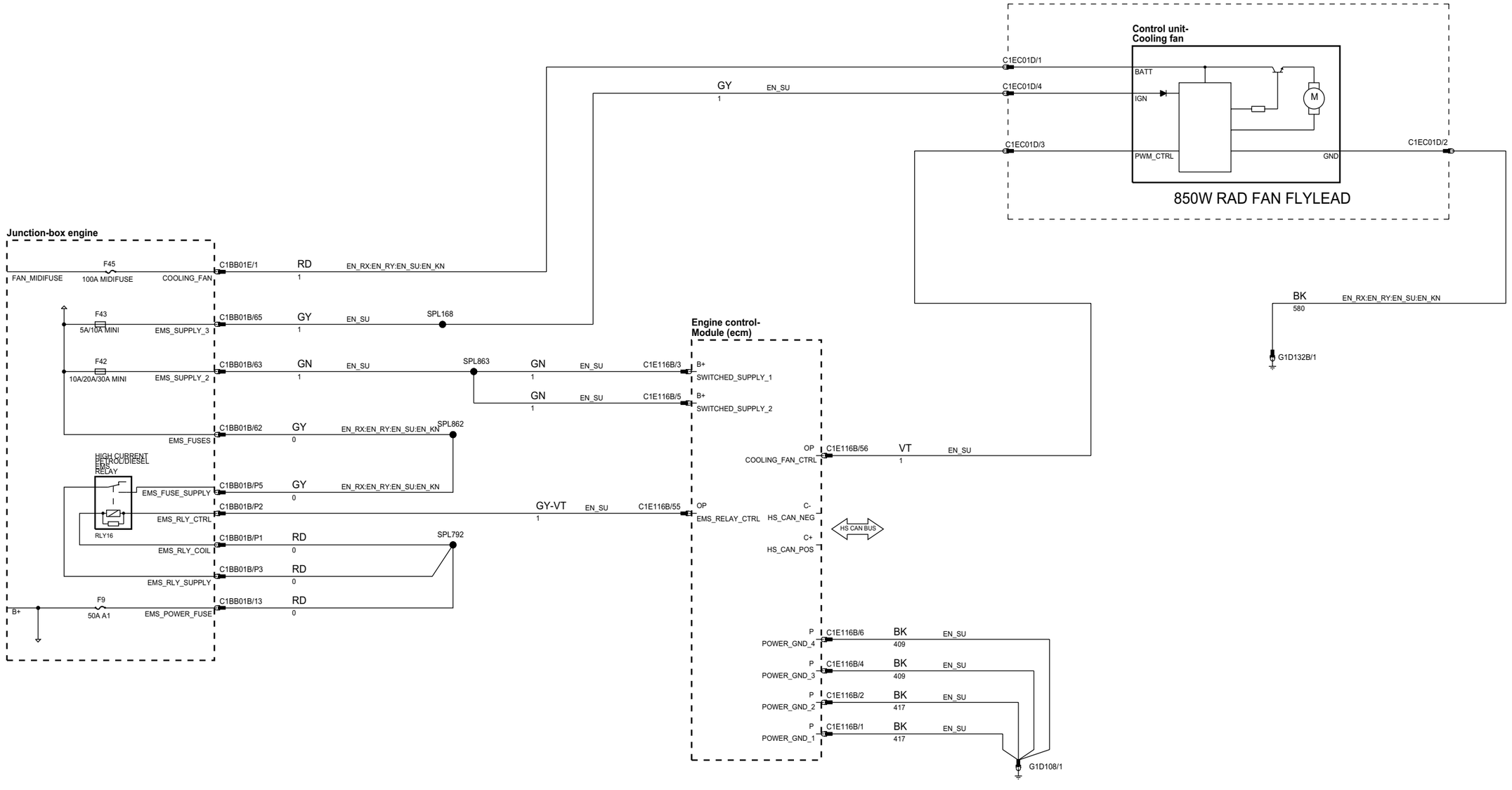

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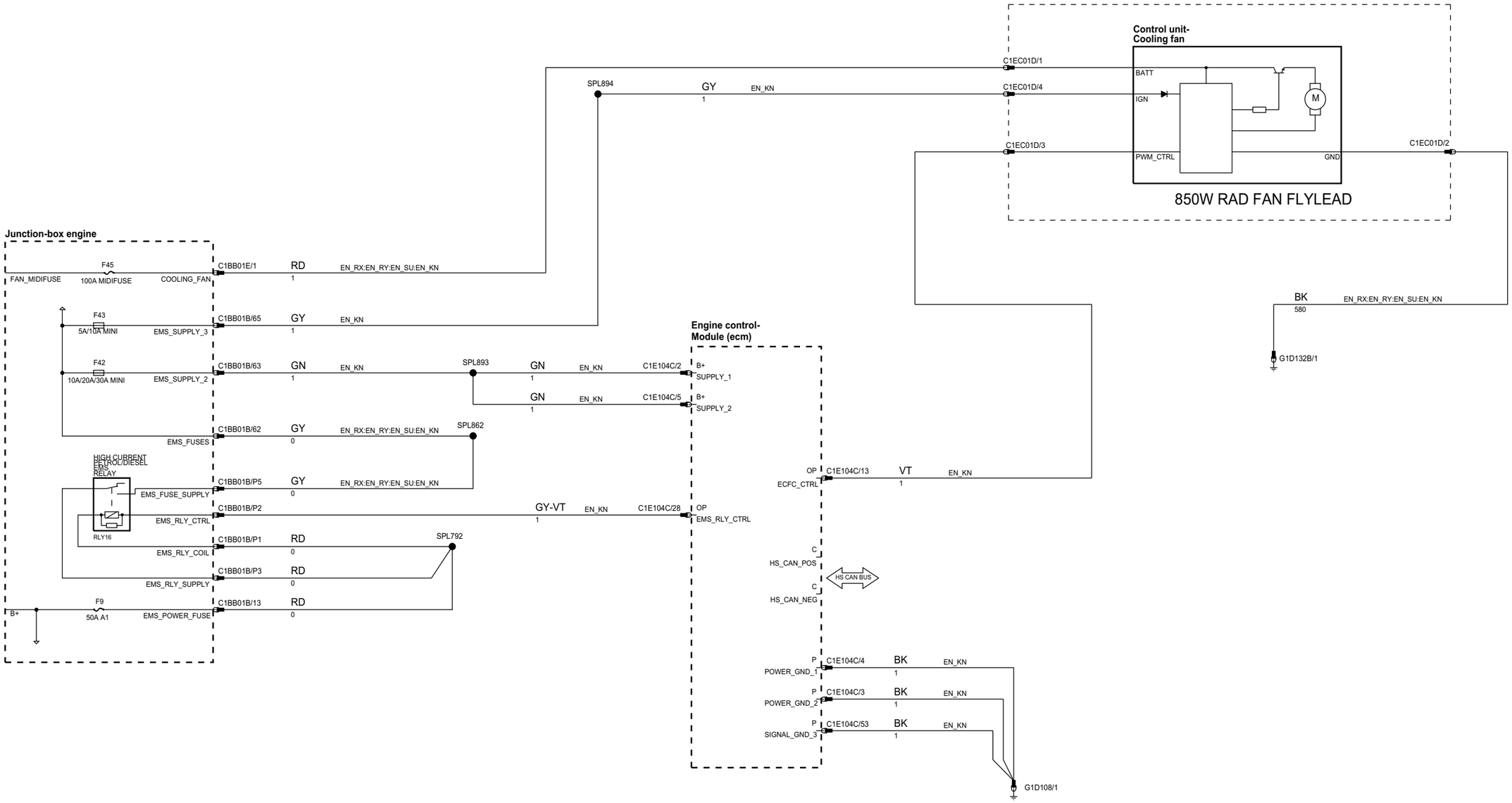

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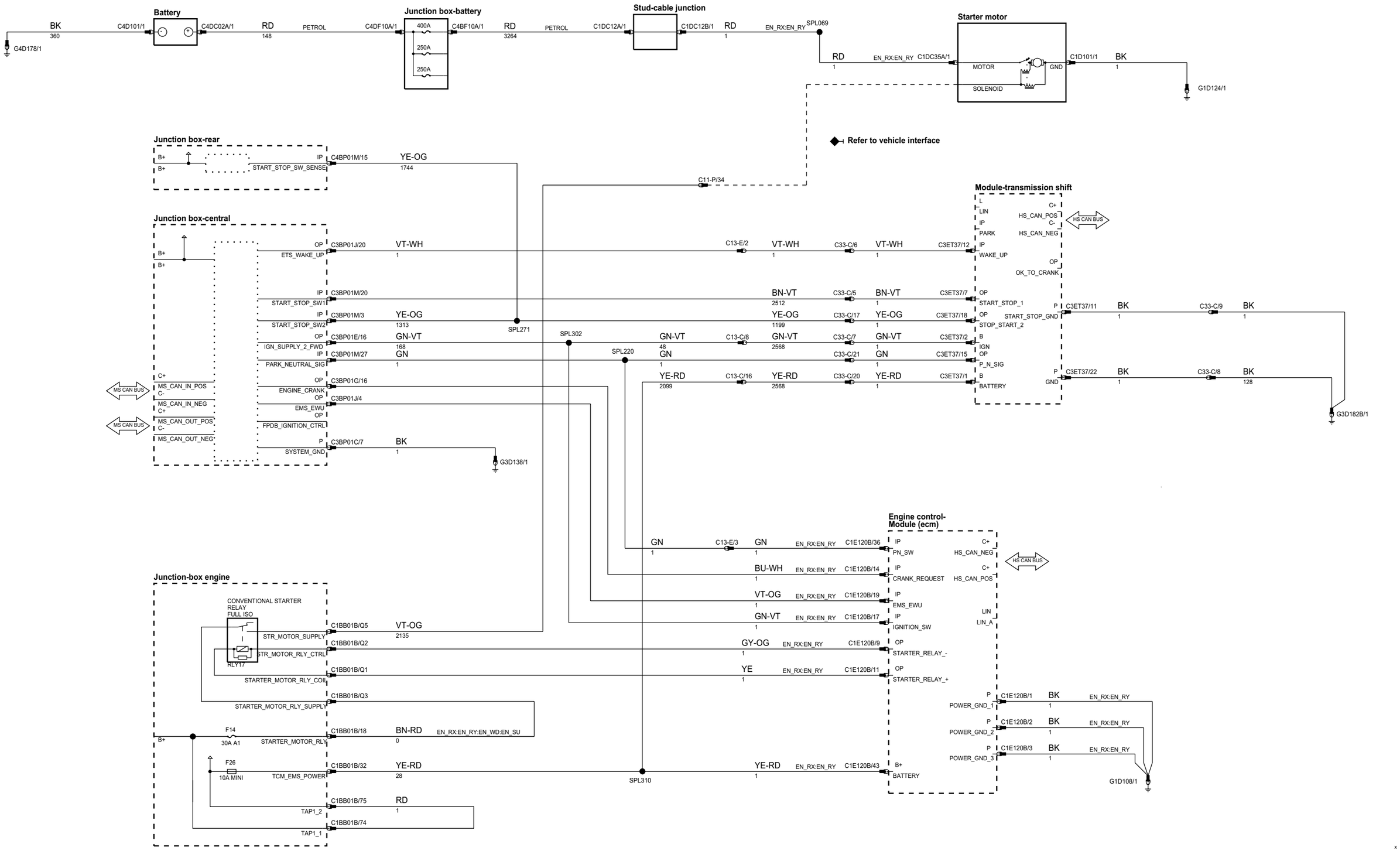
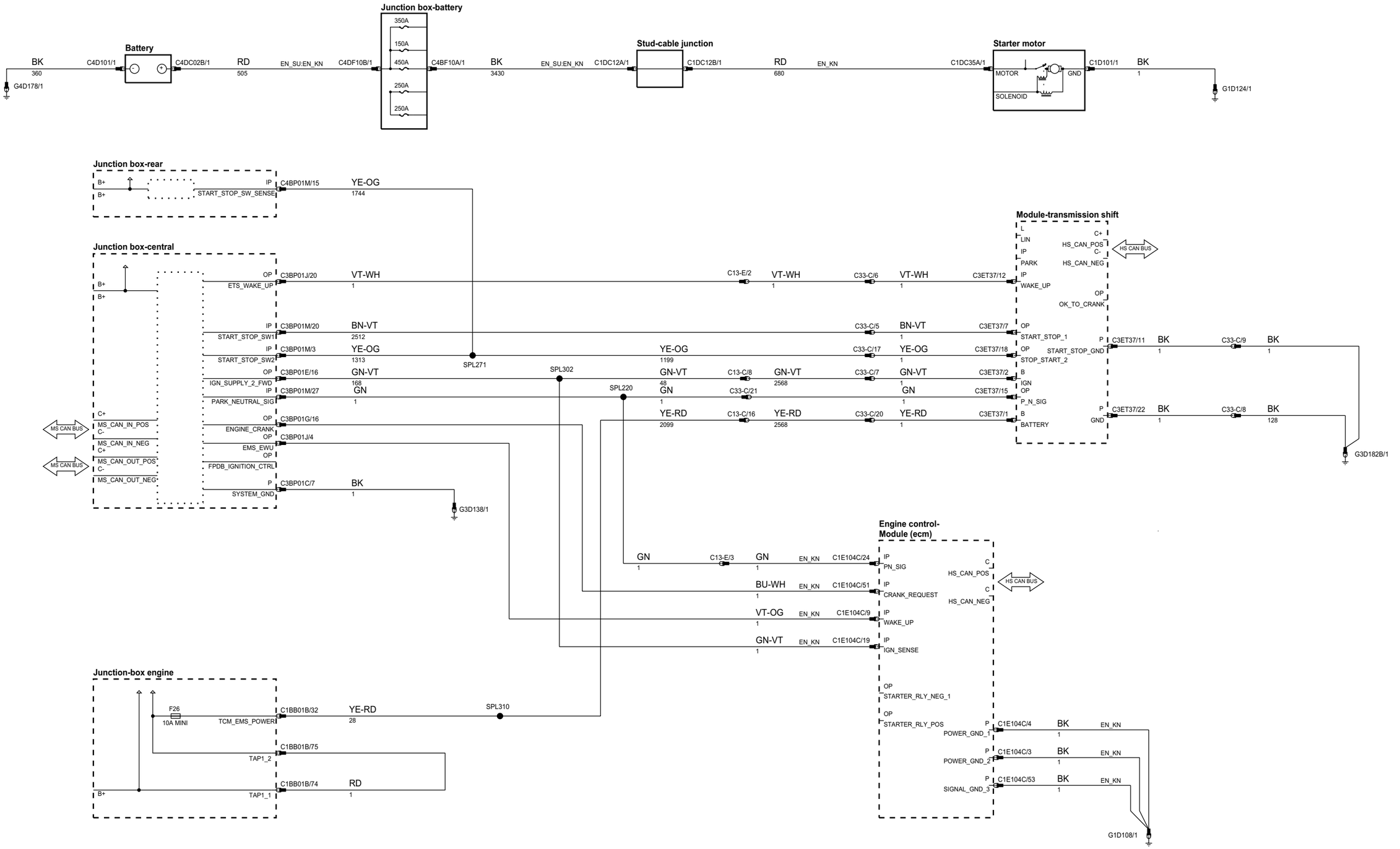
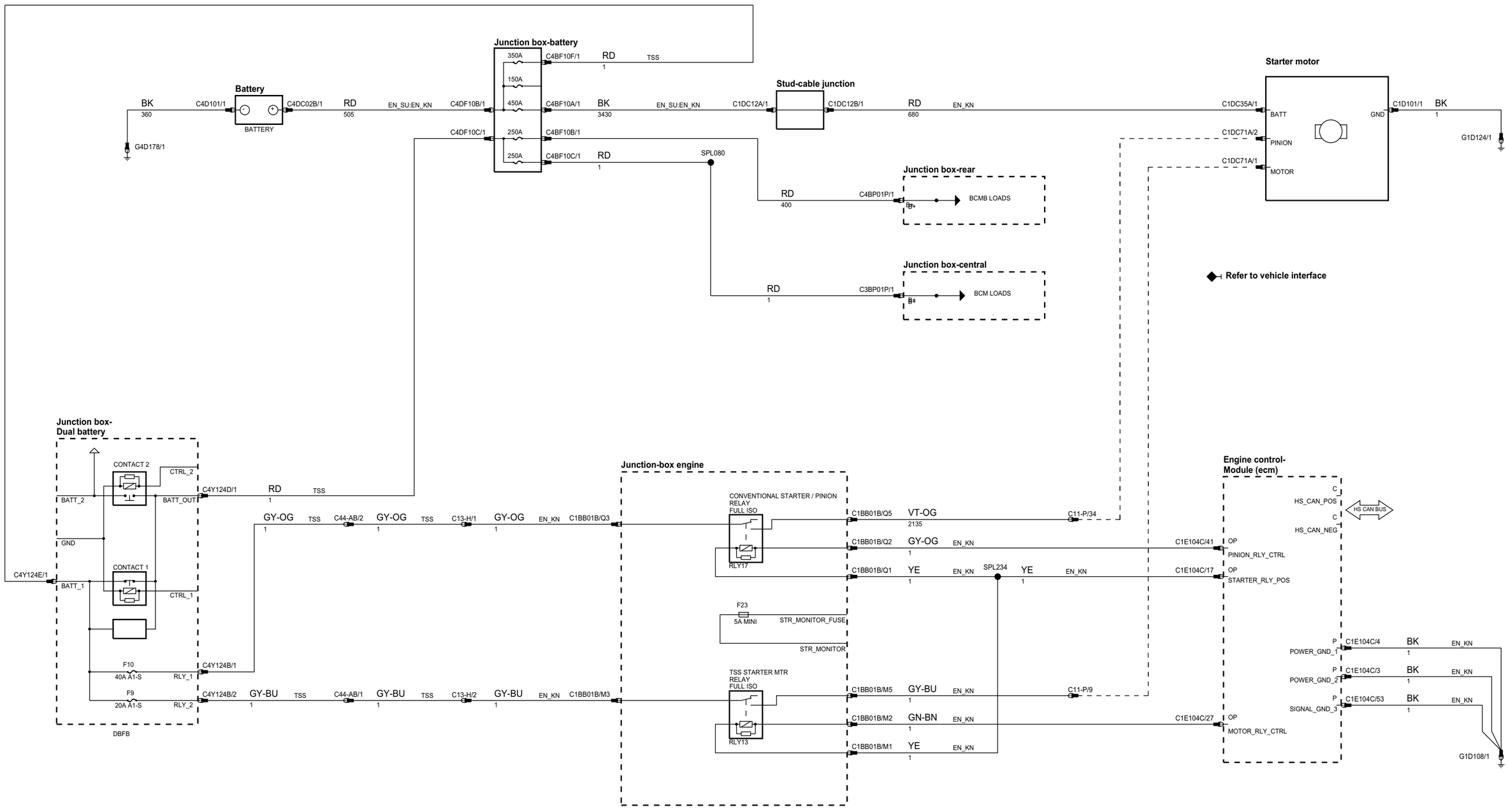


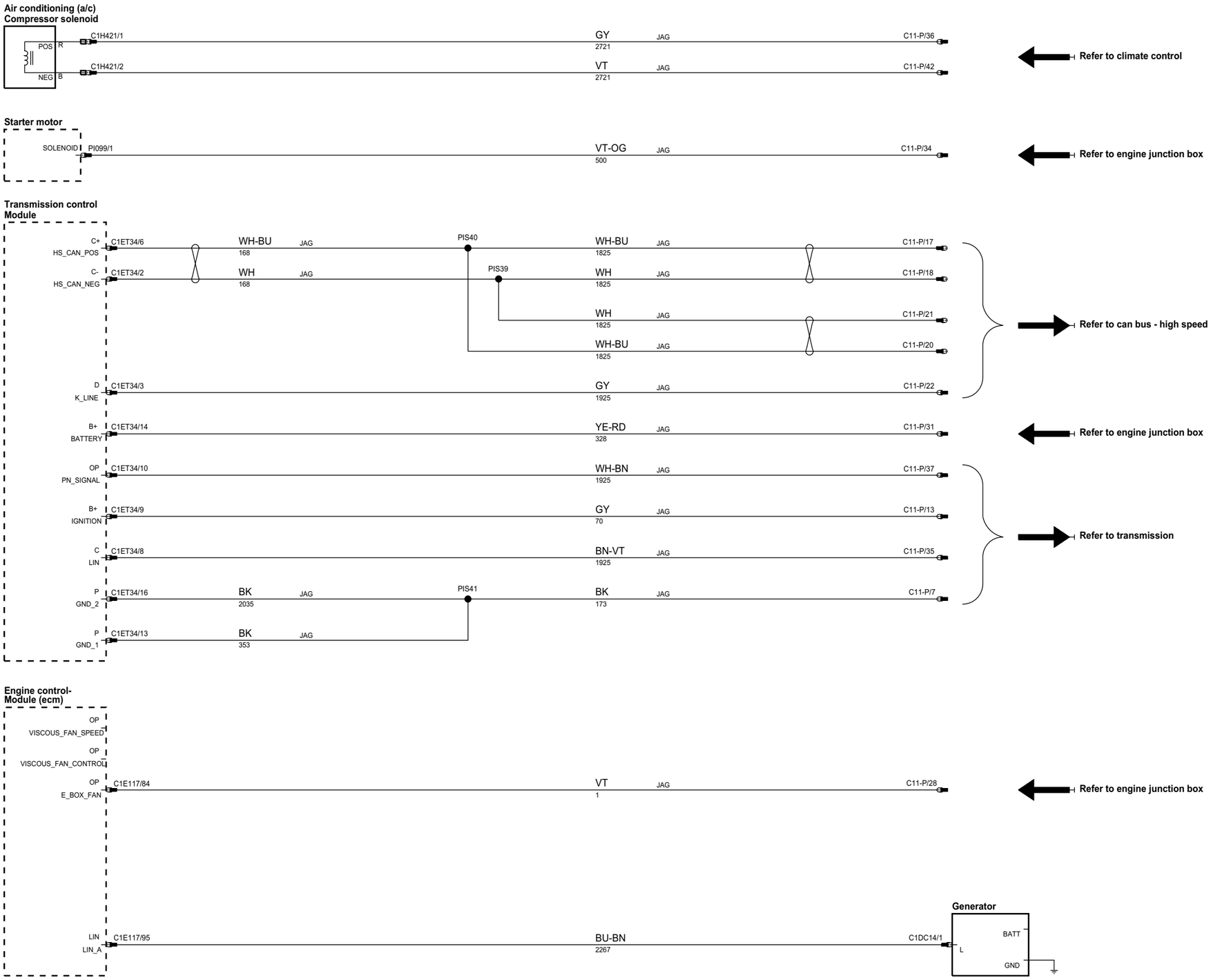
phcr83-70021-d-a4



phcr83-70024-a-a1



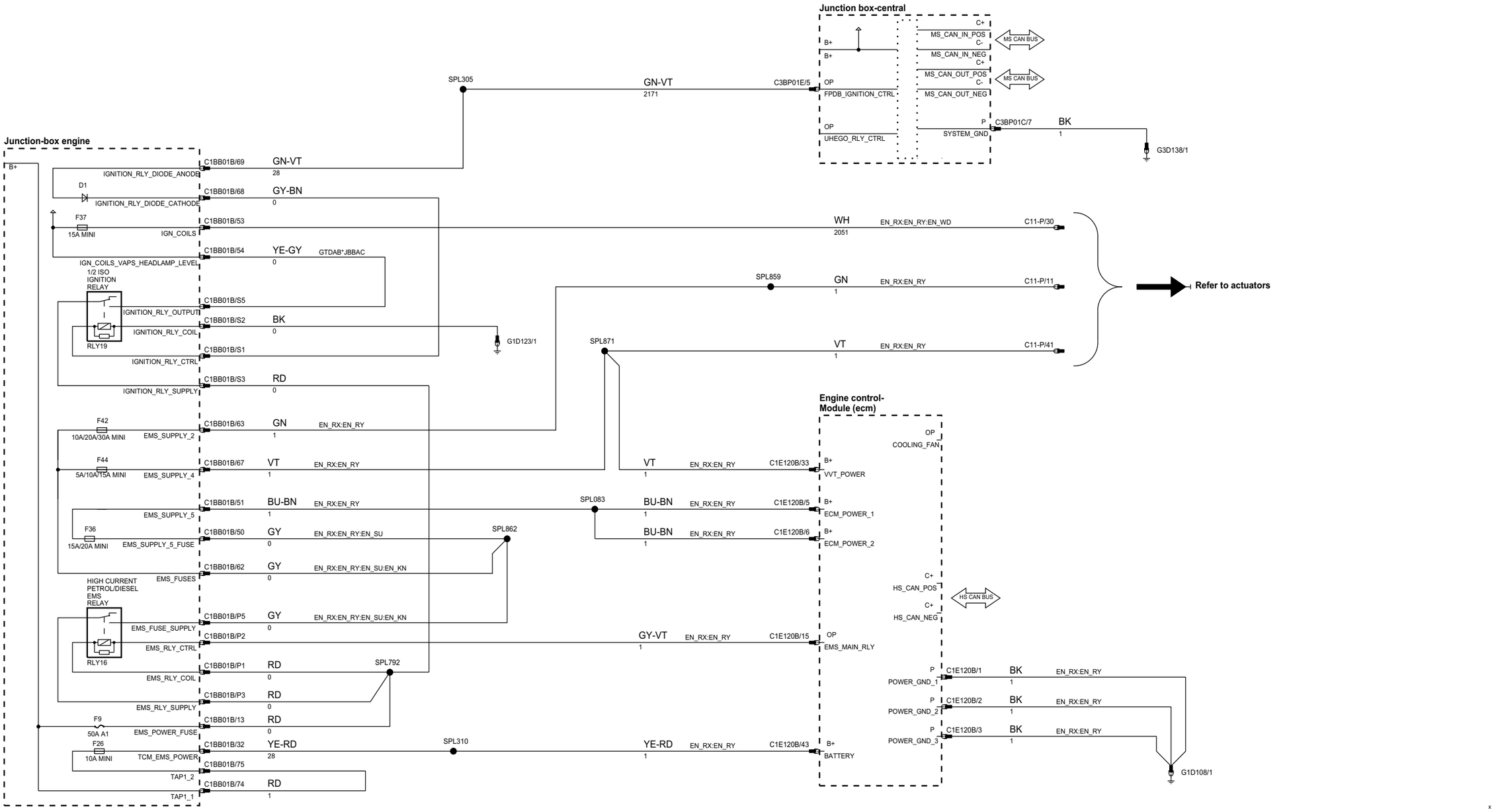
phaj133-70031-a-a5



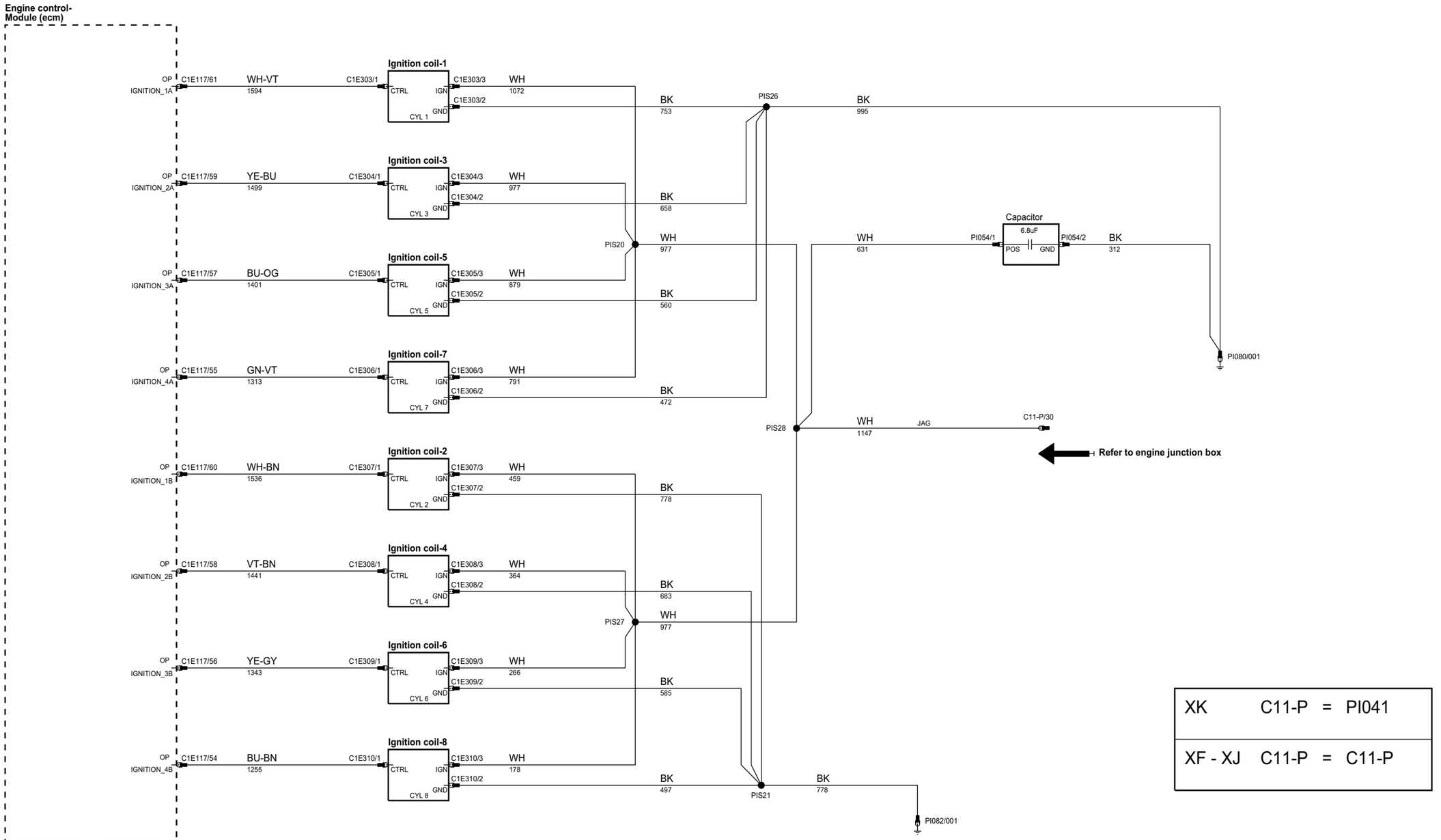
XK	C11-P	=	PI041
XF - XJ	C11-P	=	C11-P

x

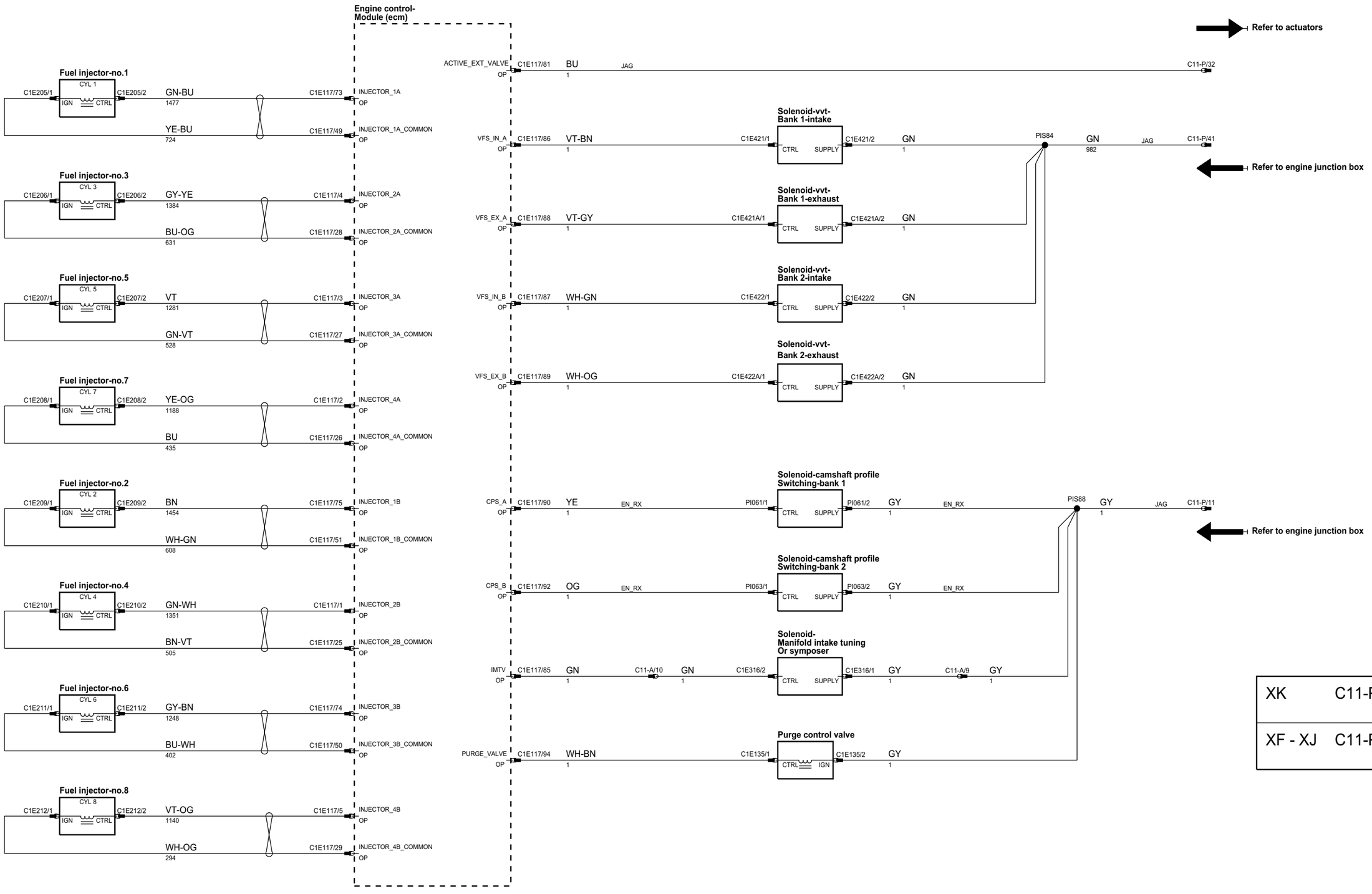
phcr83-70038-b-a4



phaj133-70035-f-a5

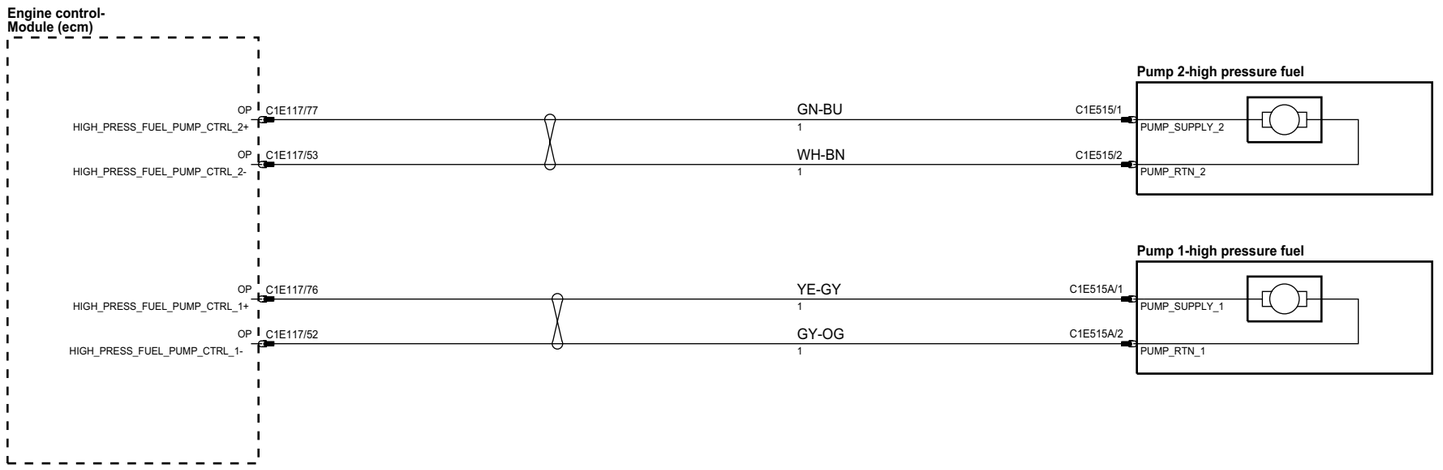


phaj133-70035-g-a5

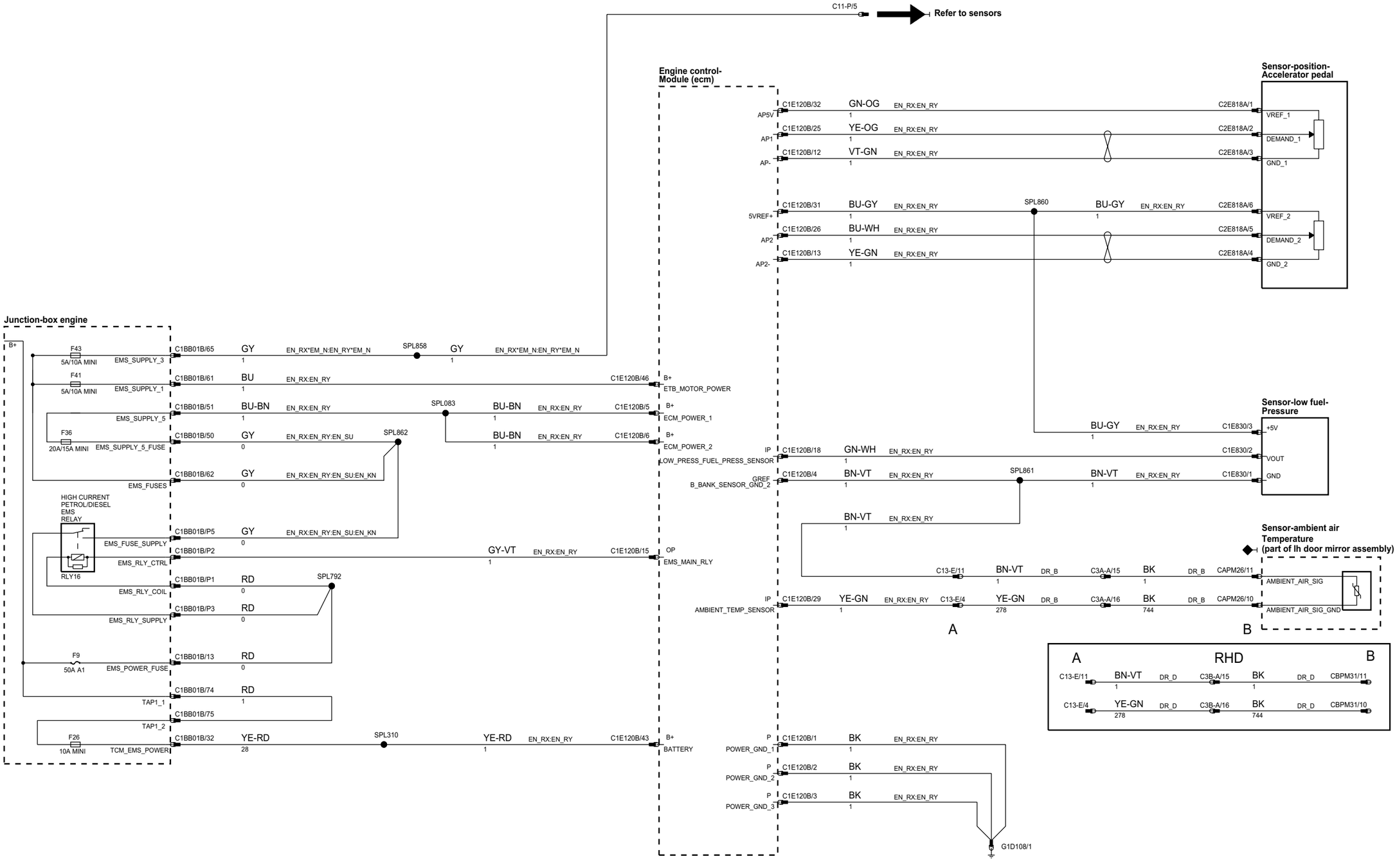


XK	C11-P	=	PI041
XF - XJ	C11-P	=	C11-P

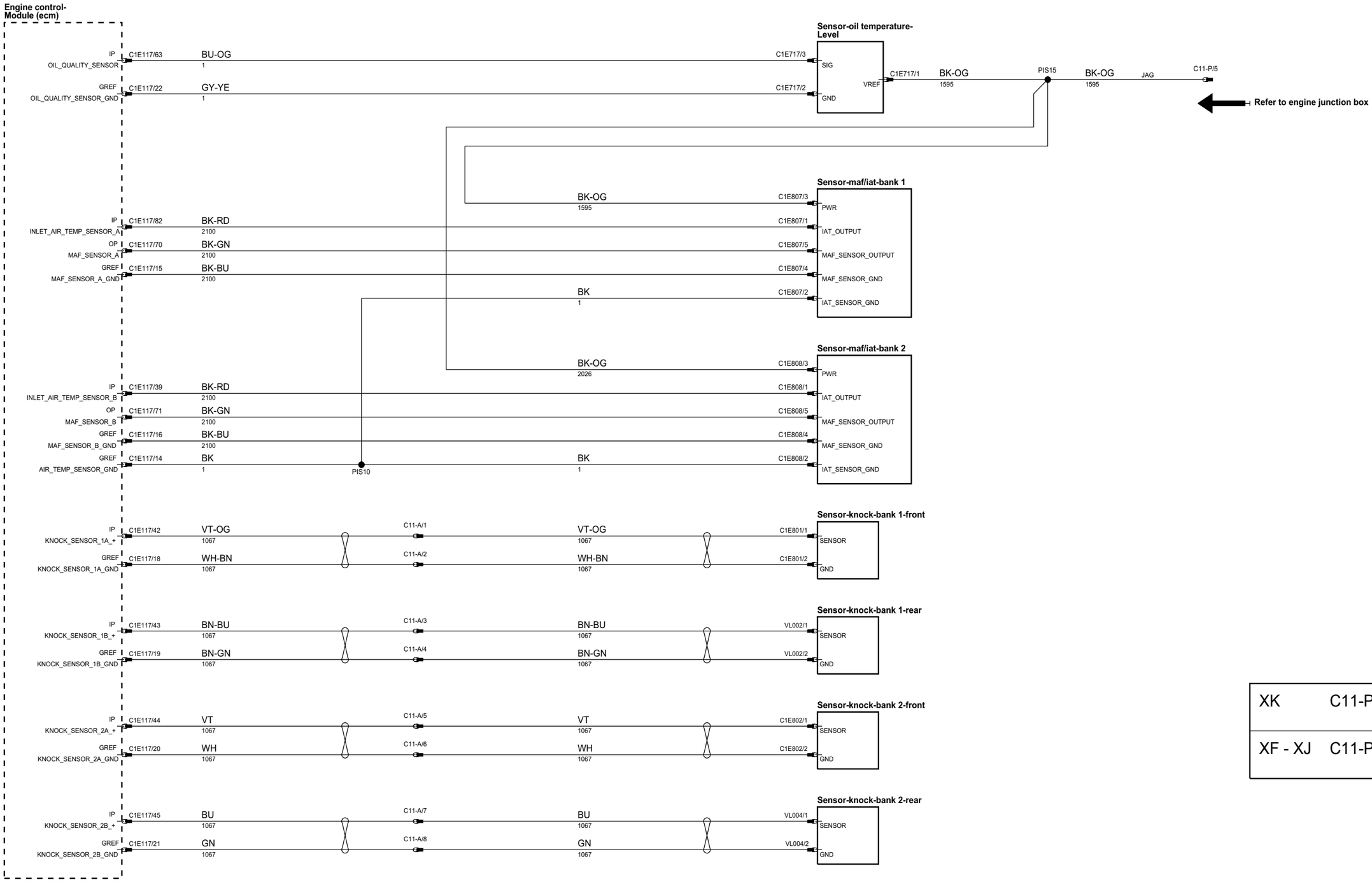
phaj133-70035-h-a5



phcr83-70034-b-a4



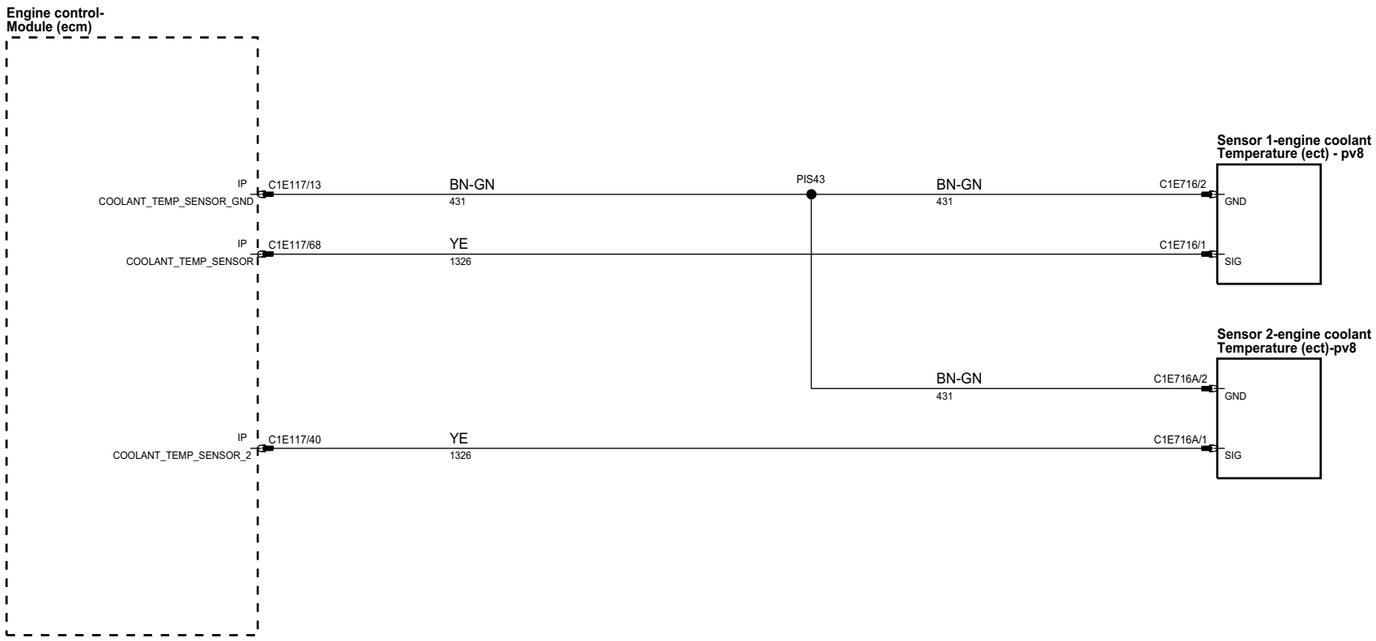
phaj133-70035-j-a5



XK	C11-P	=	PI041
XF - XJ	C11-P	=	C11-P

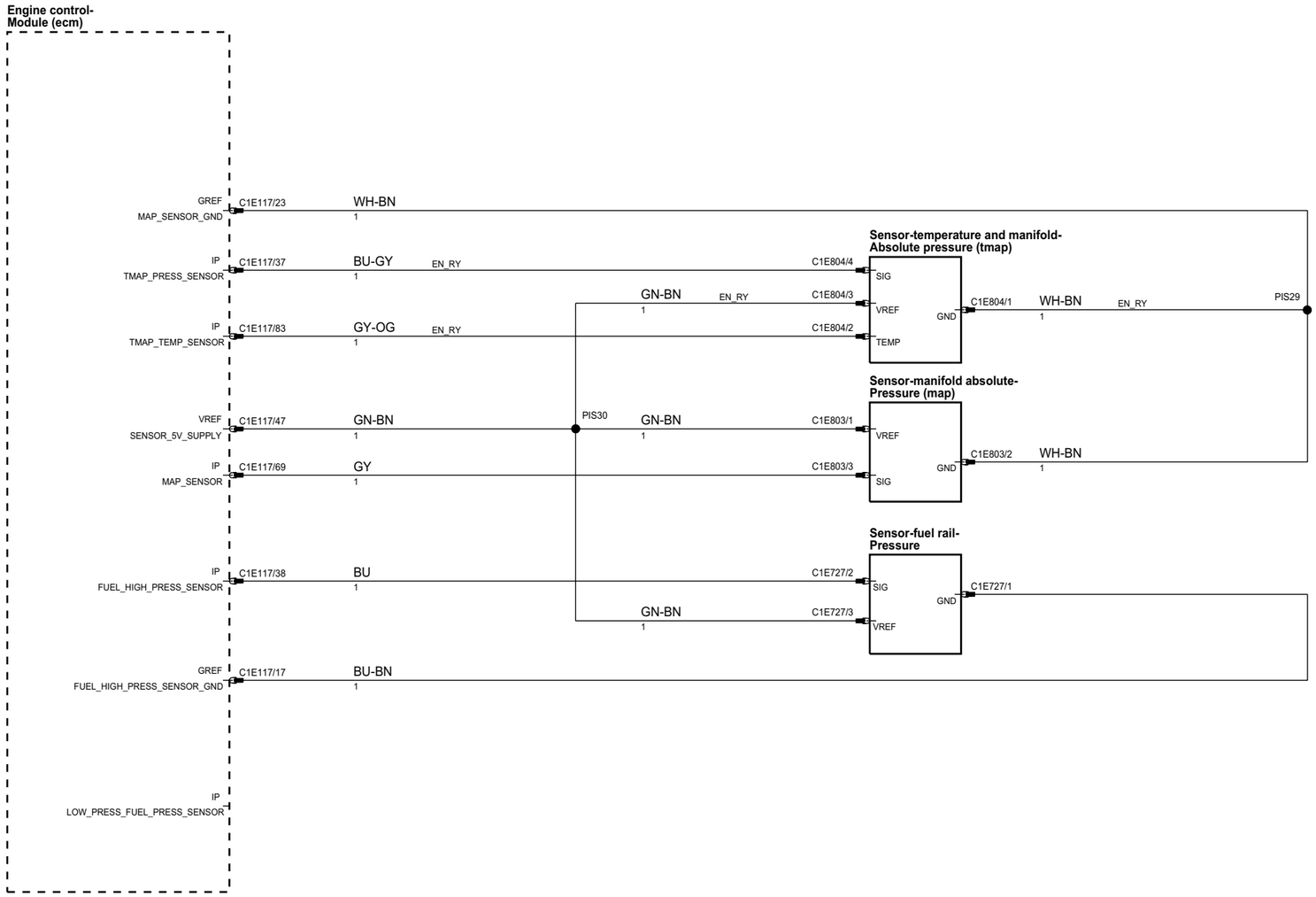
x

phaj133-70035-b-a5

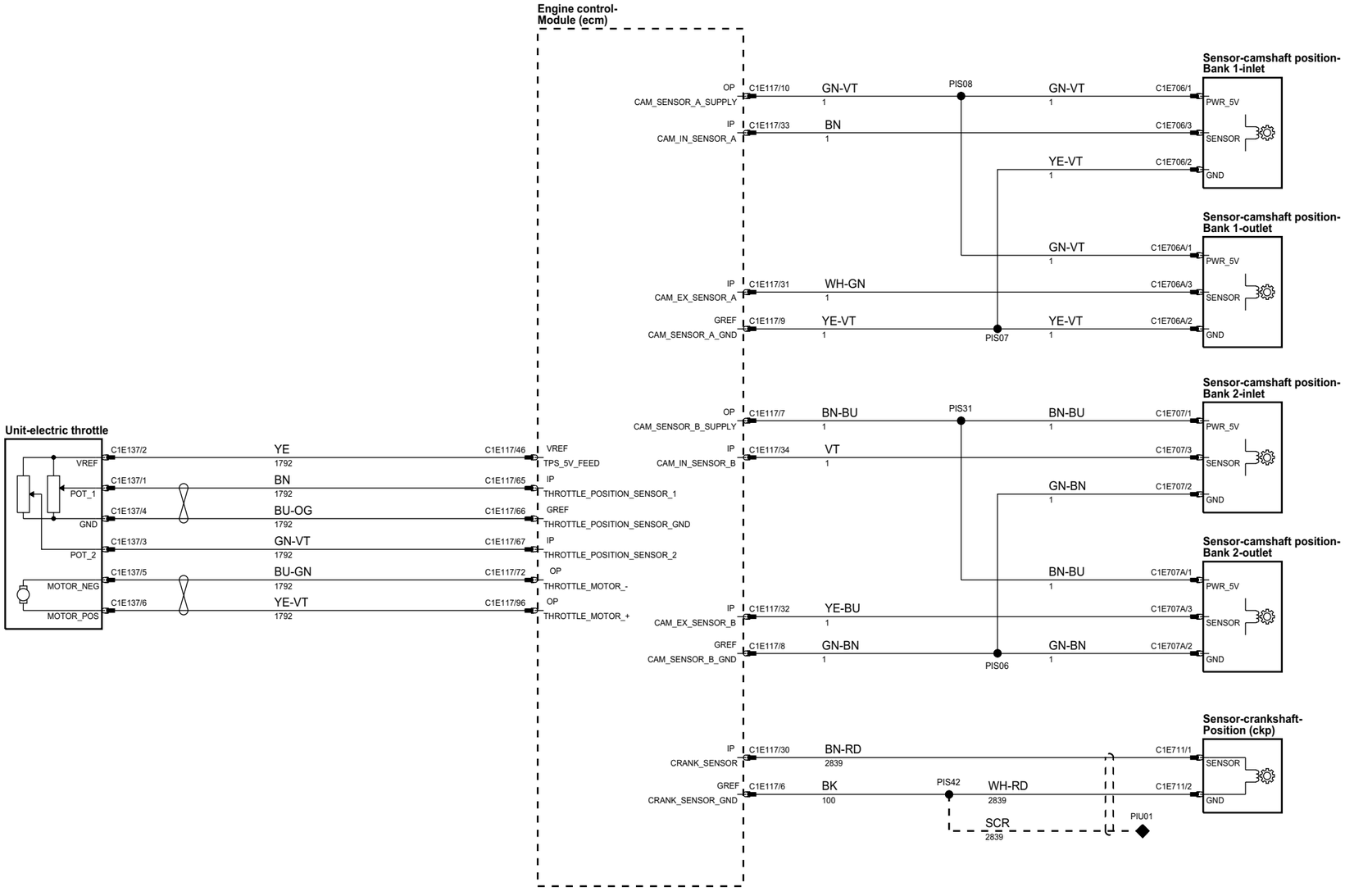


x

phaj133-70035-c-a5

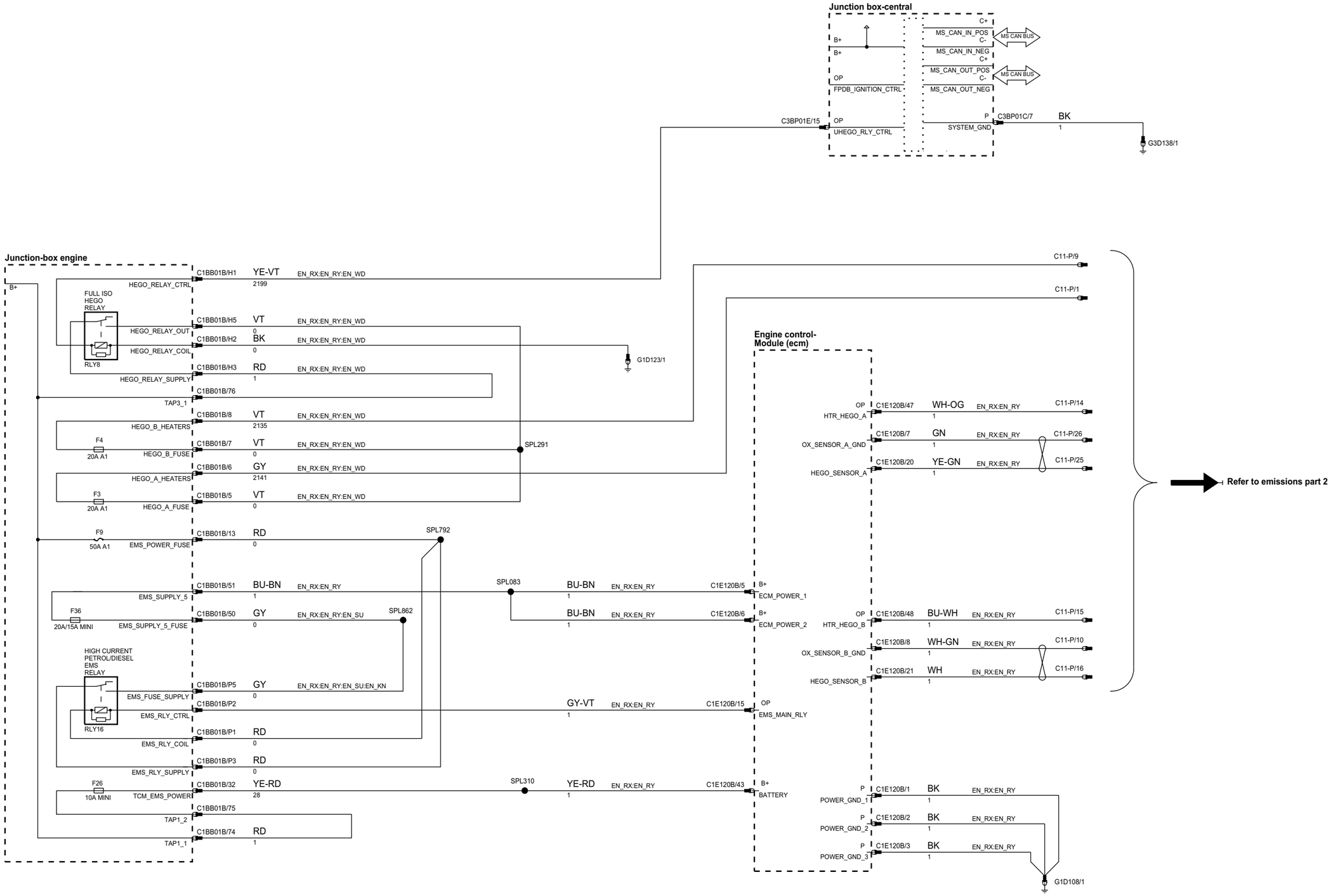


phaj133-70035-d-a5

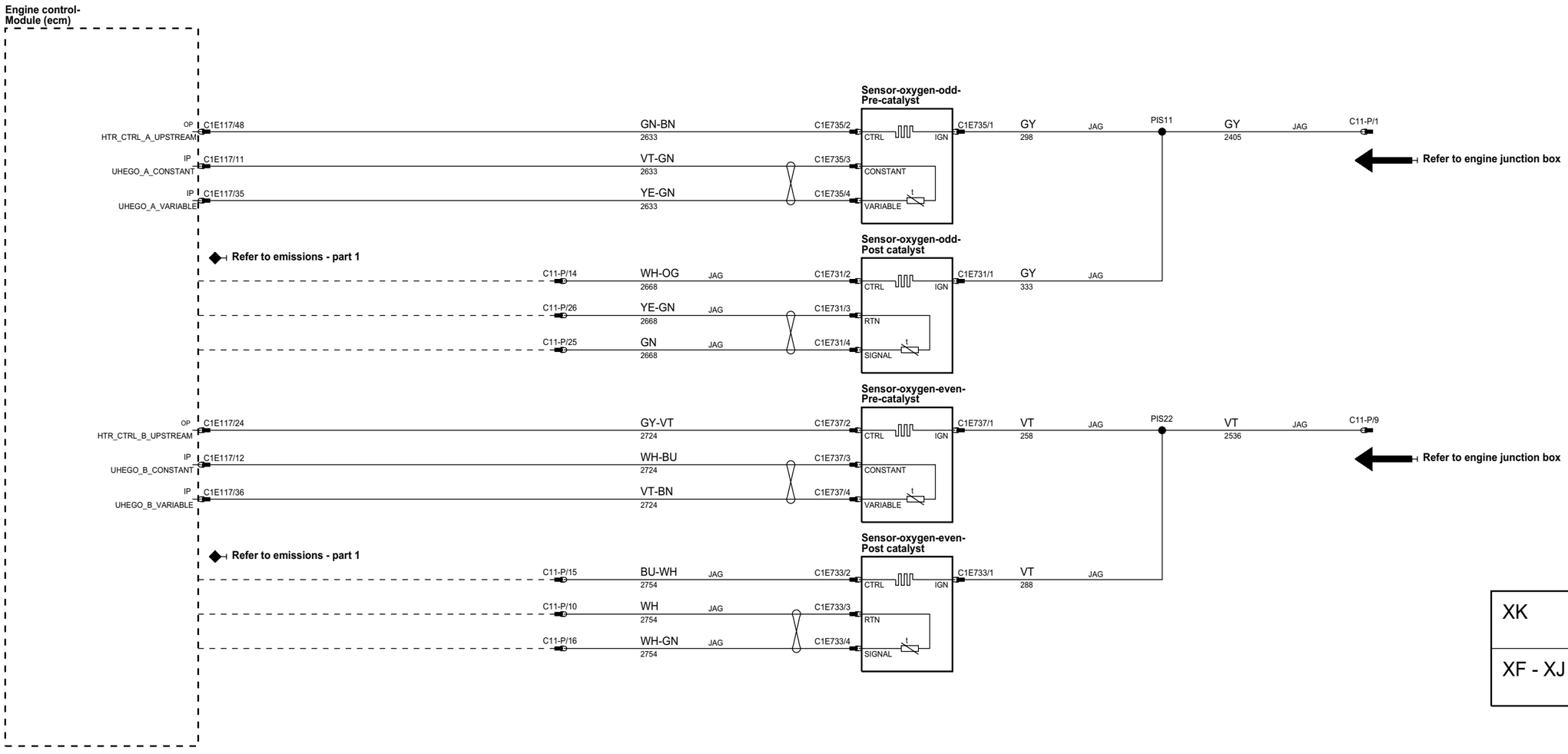


x

phcr83-70035-b-a4



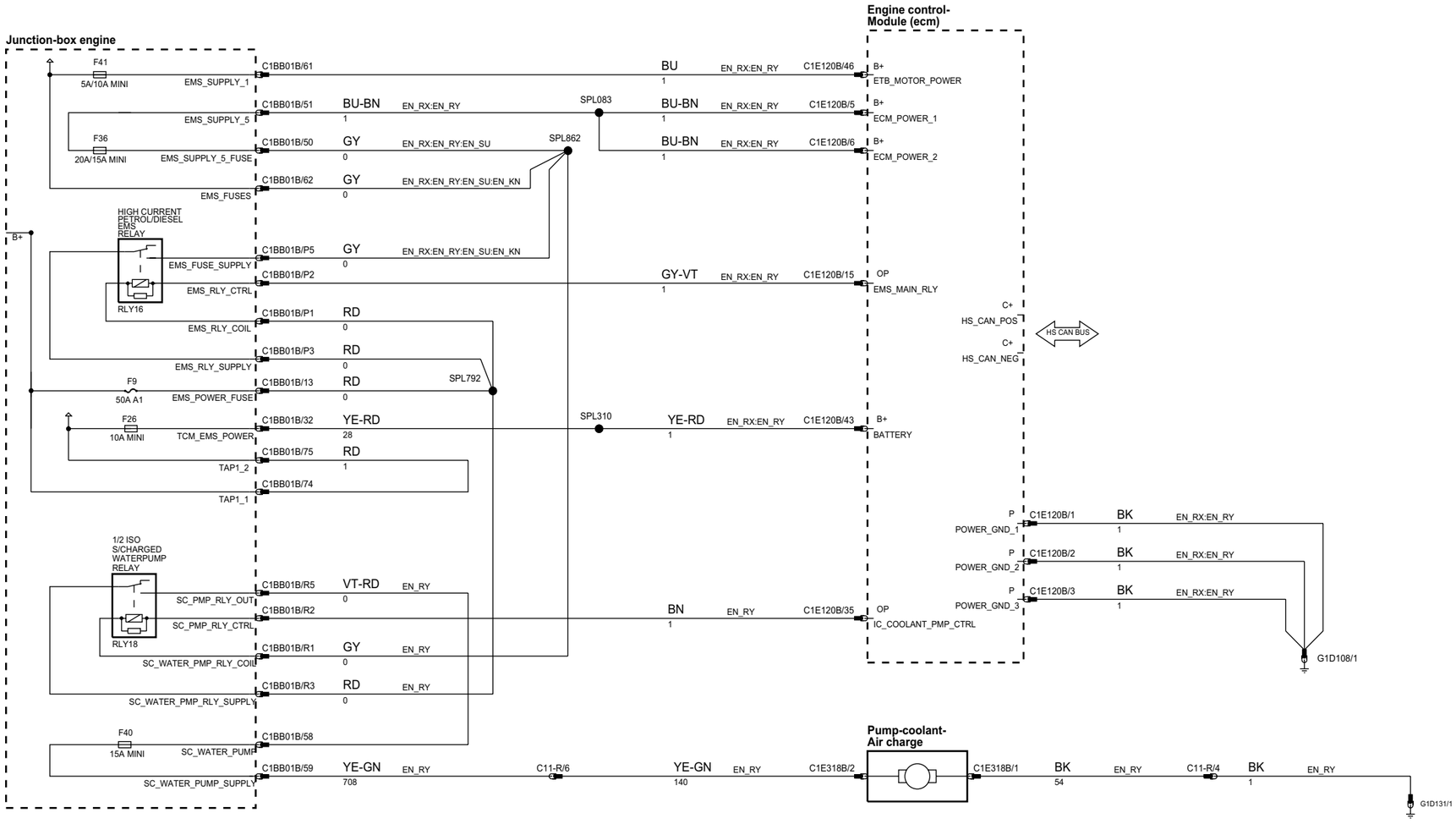
phaj133-70035-e-a5



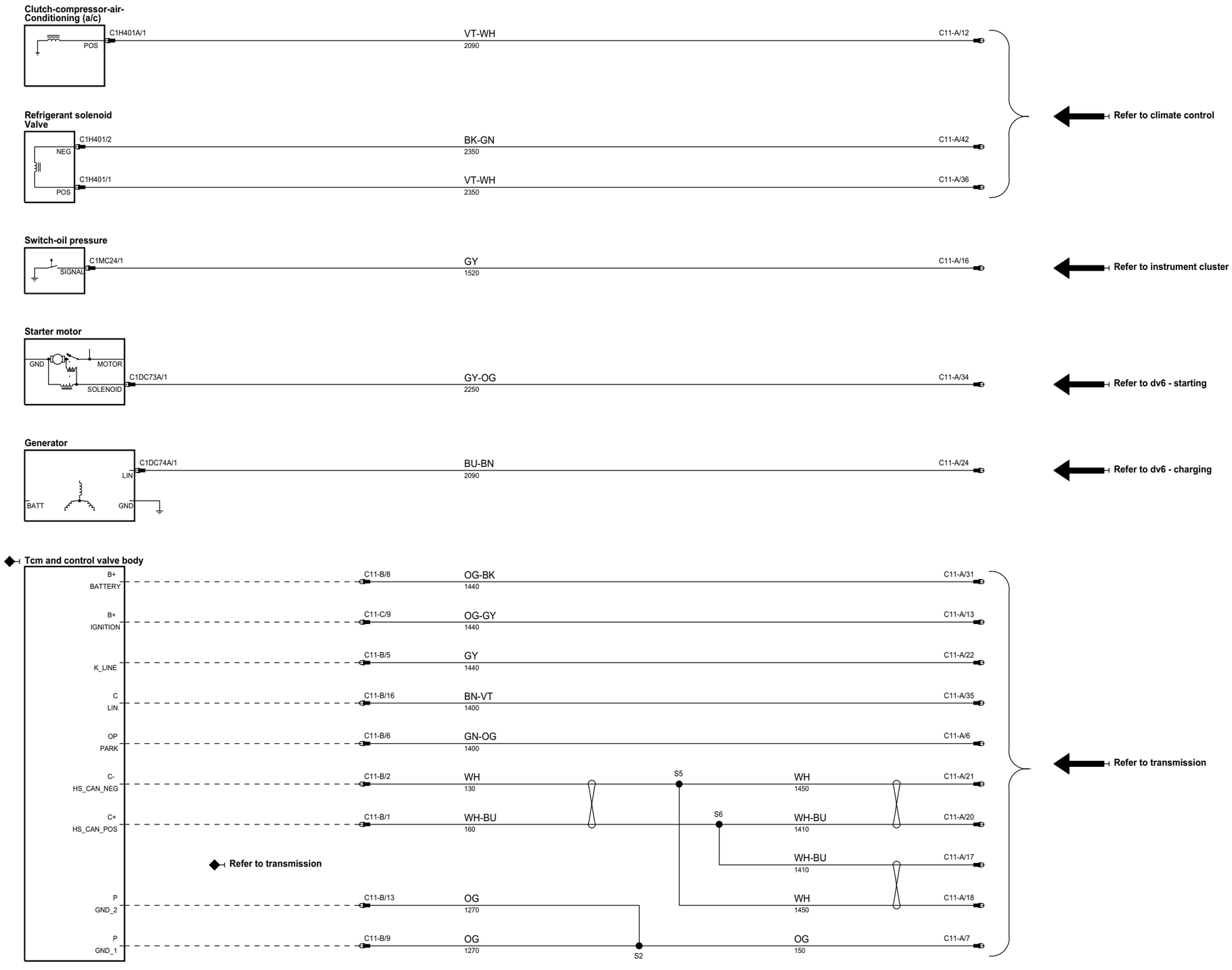
XK	C11-P	=	PI041
XF - XJ	C11-P	=	C11-P

x

phcr83-70031-b-a4

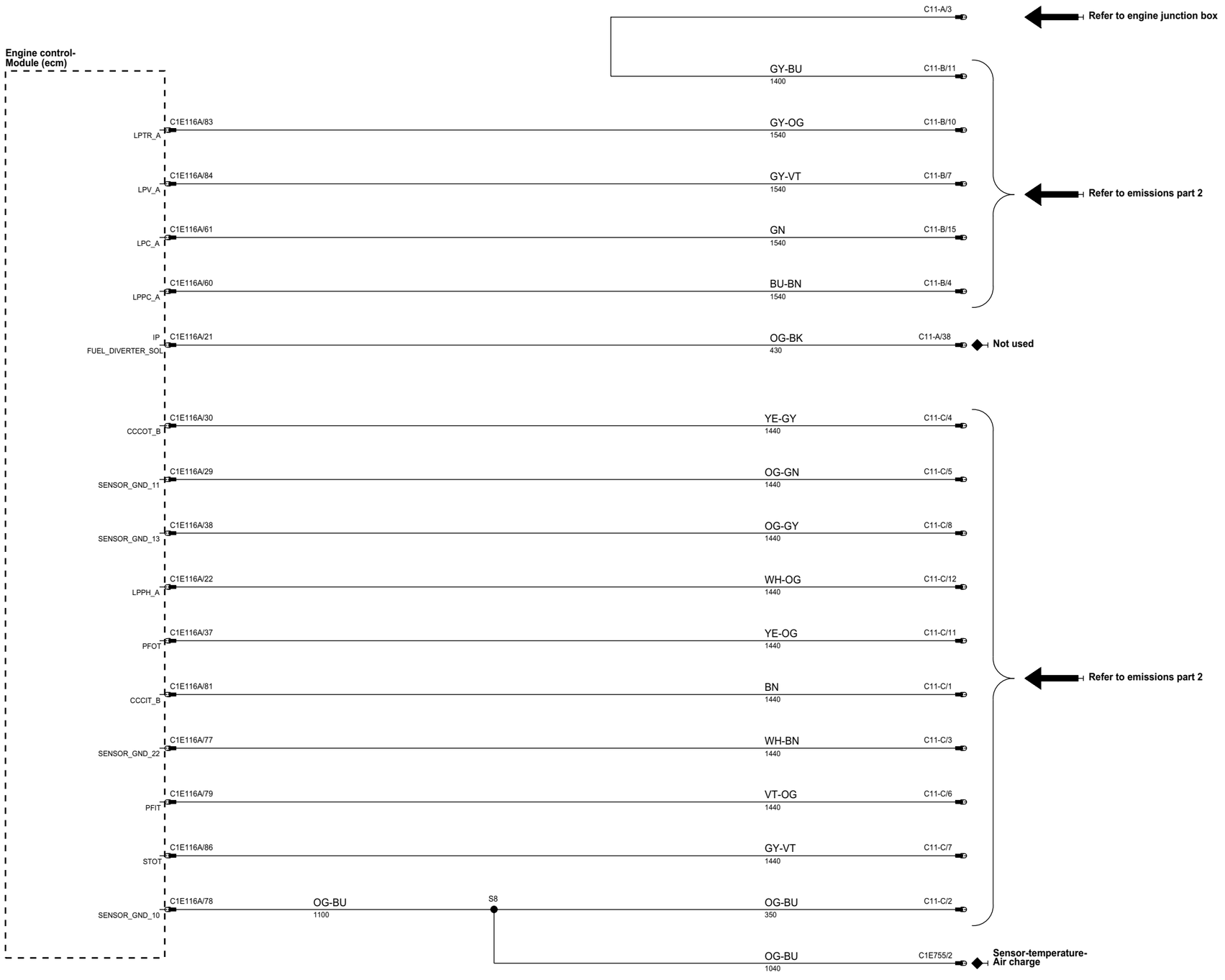


phtdv6-70032-a



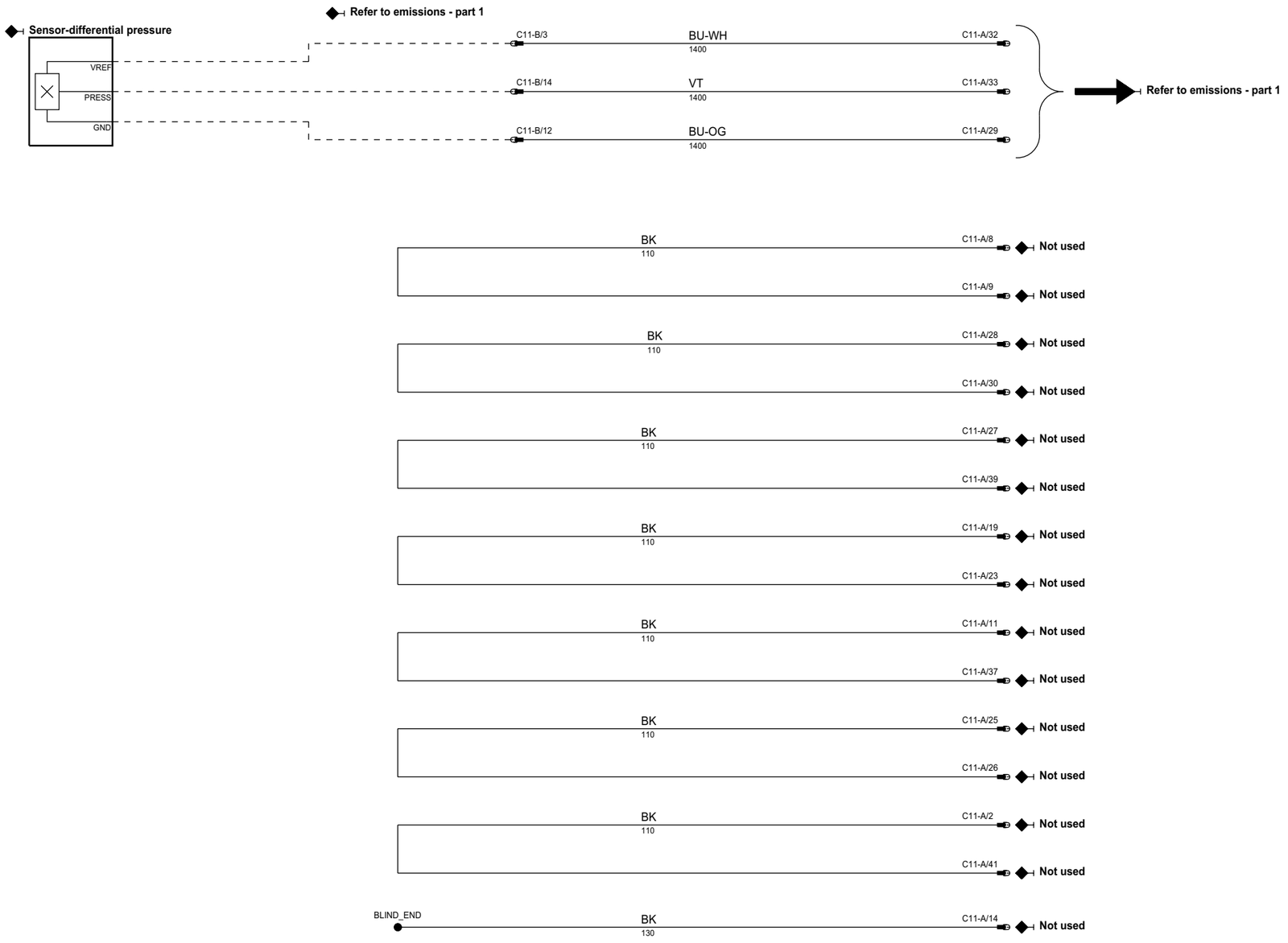
C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

phtdv6-70032-b



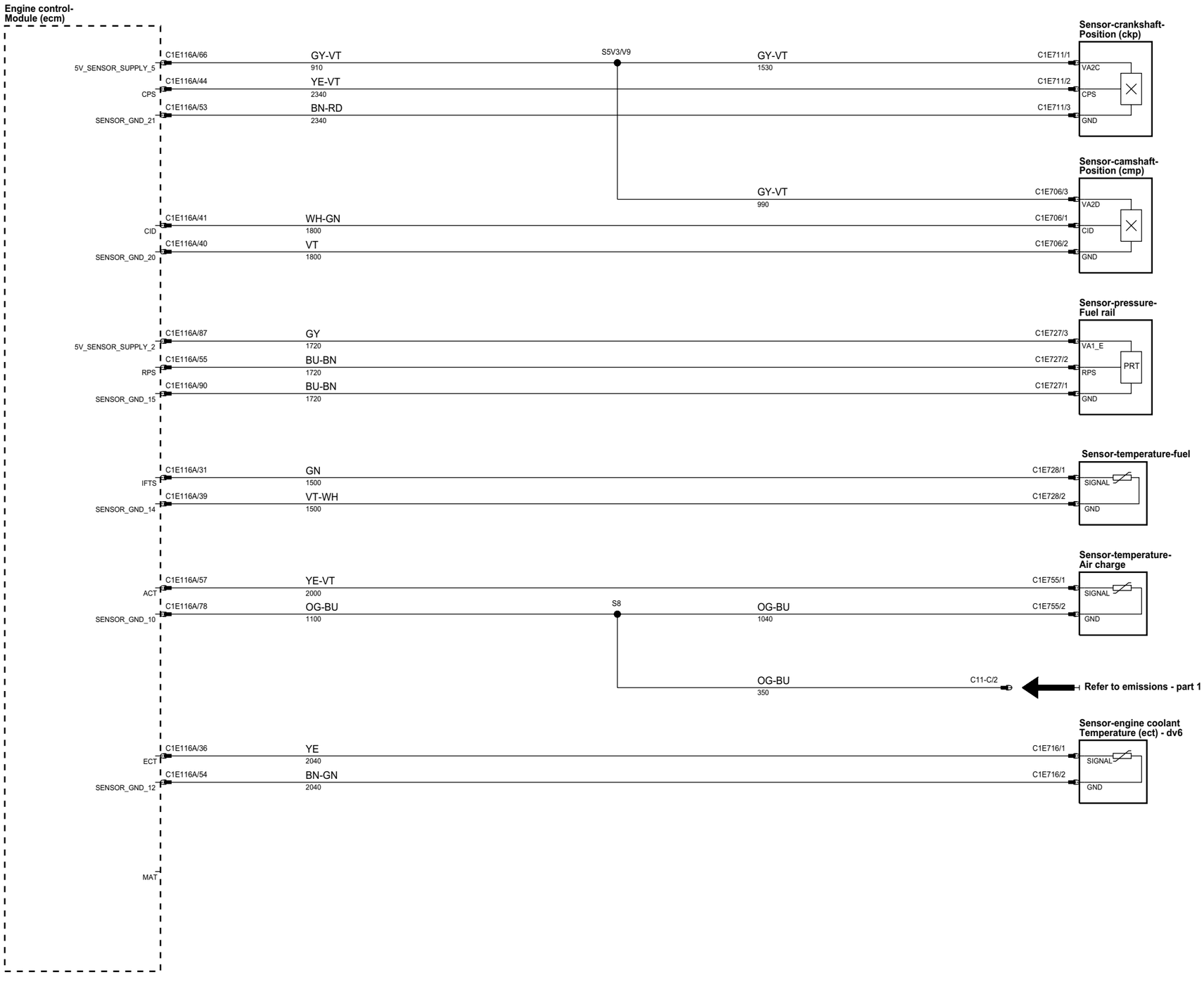
C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

phtdv6-70032-c



C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

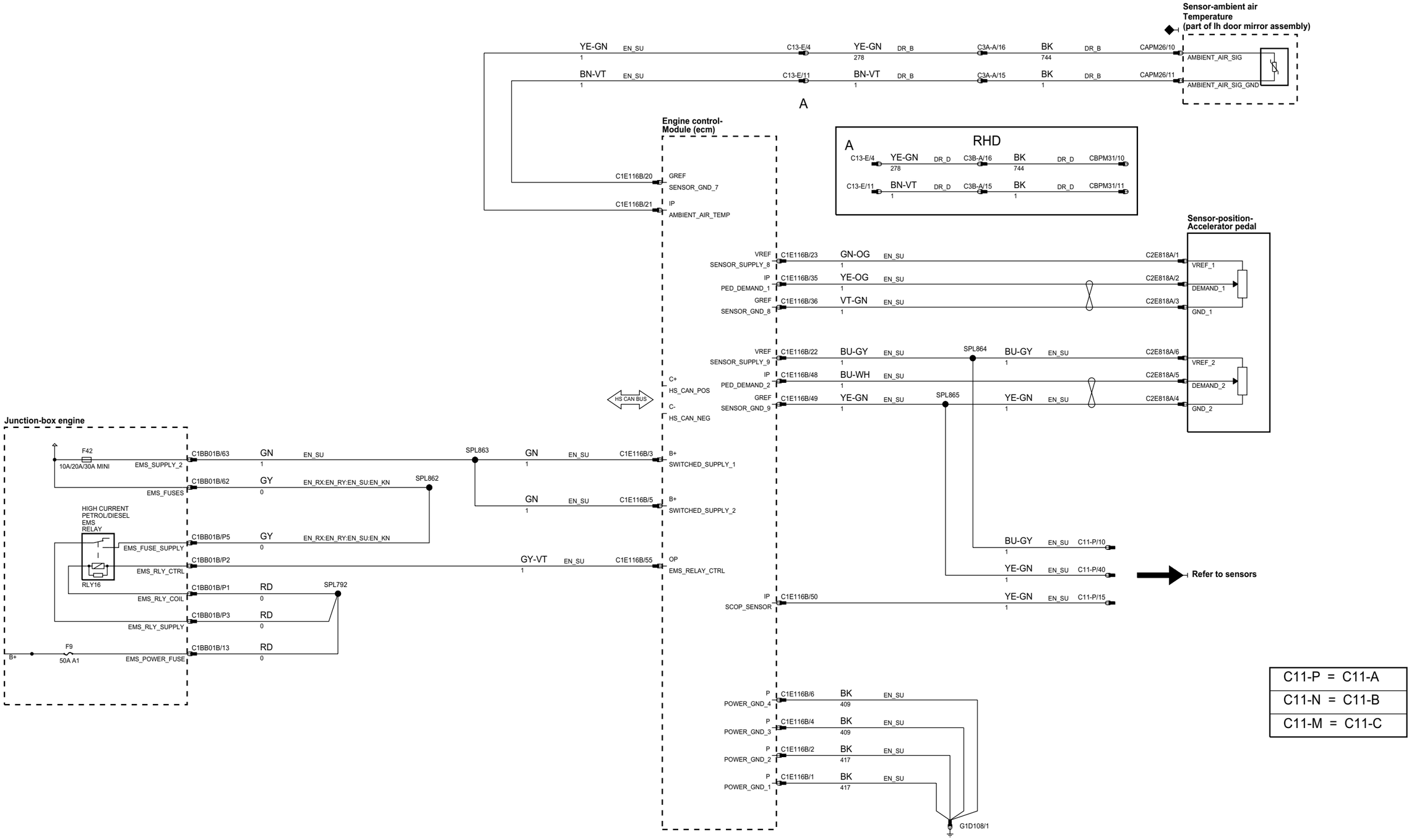
phtdv6-70034-a



C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

x

phcr83-70034-d2-a4



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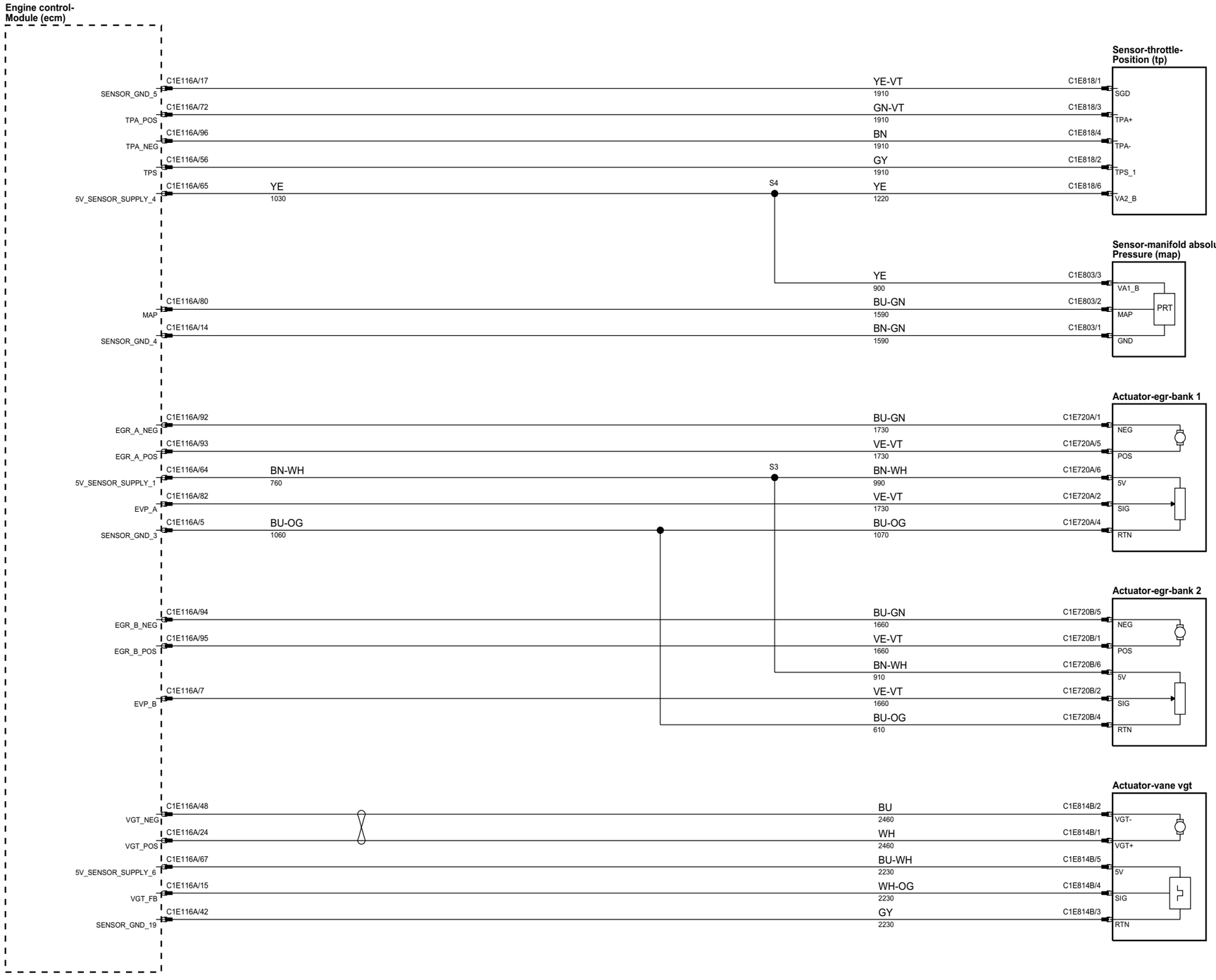
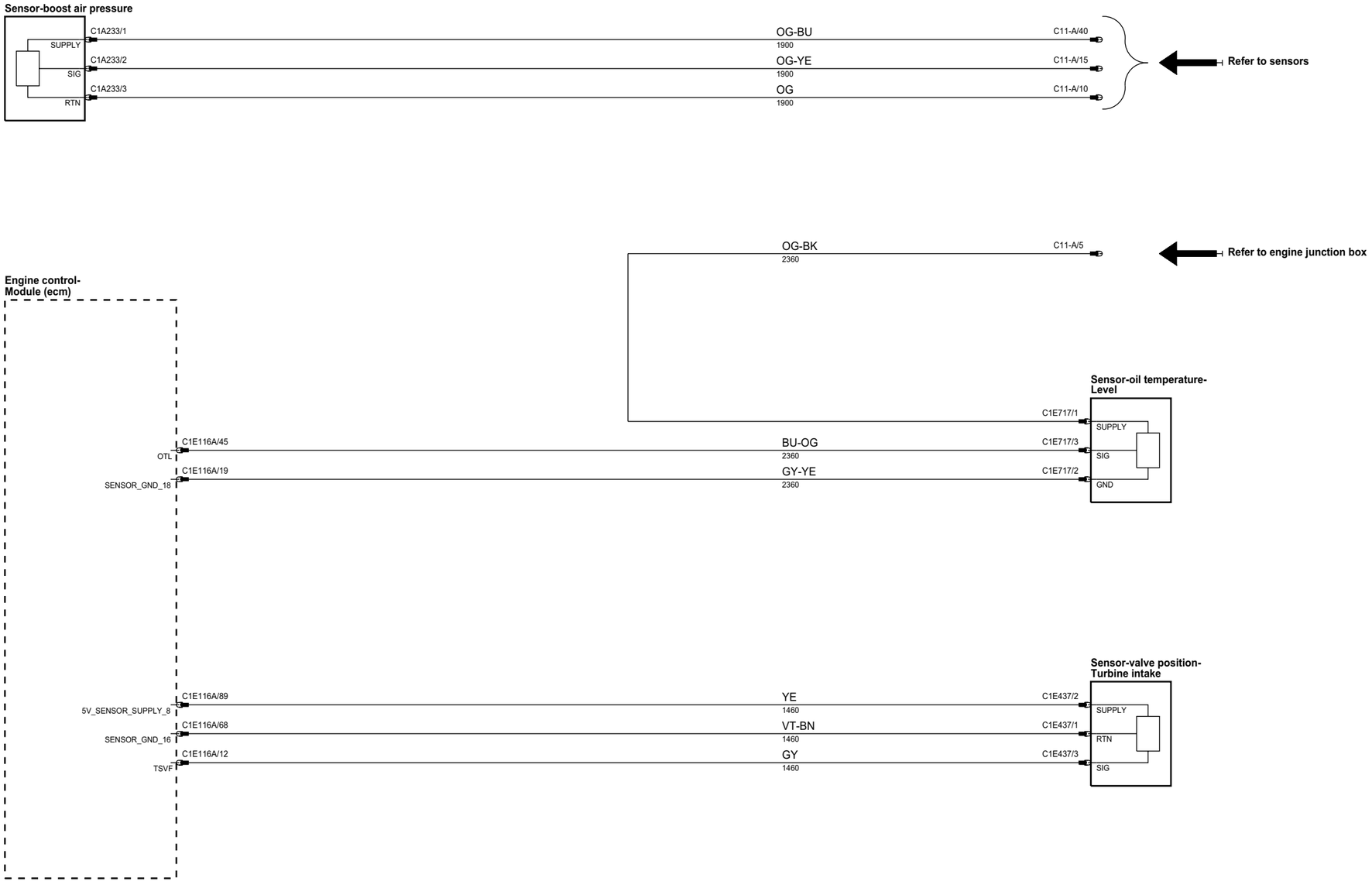


C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

x

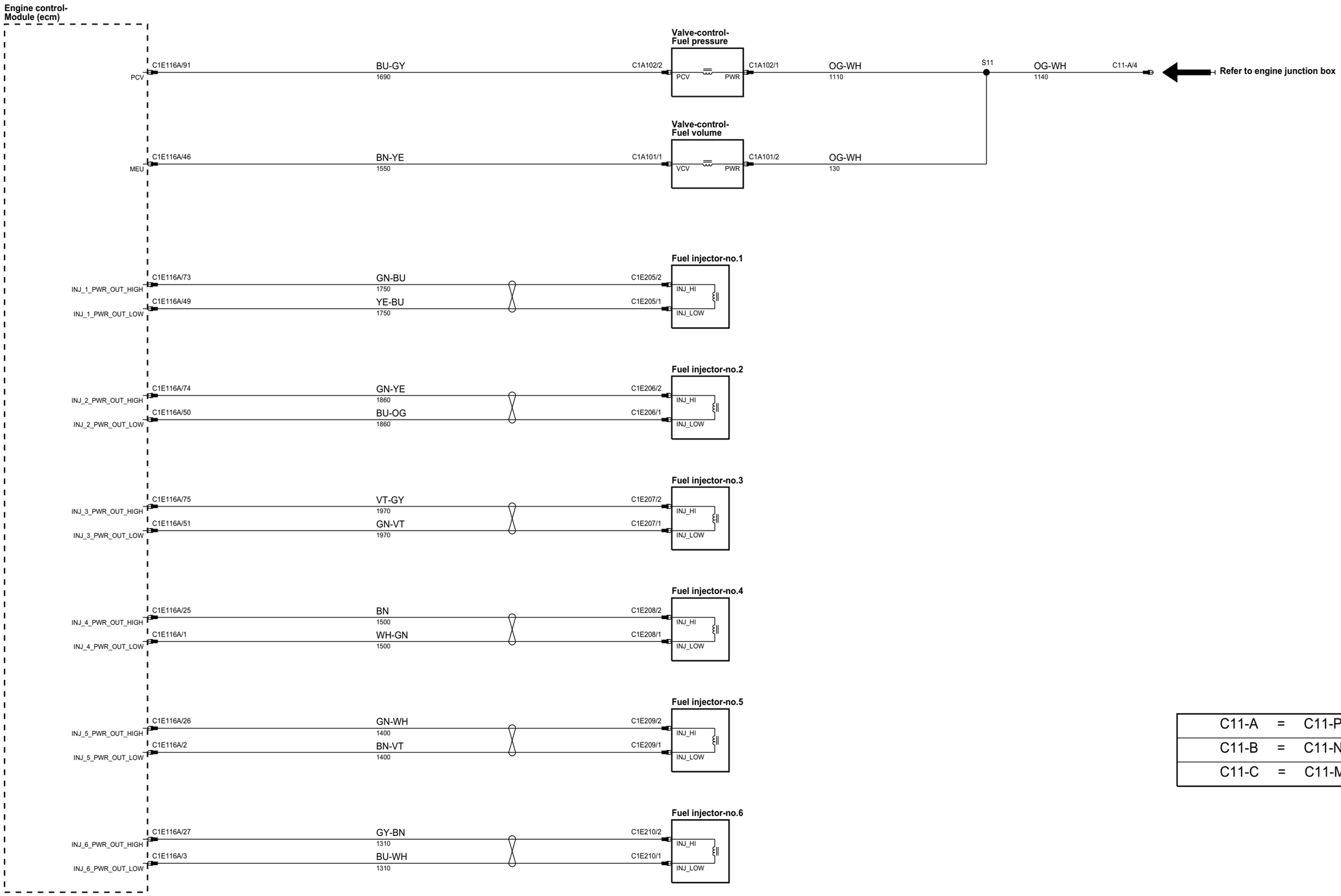
phtdv6-70034-c



C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

x

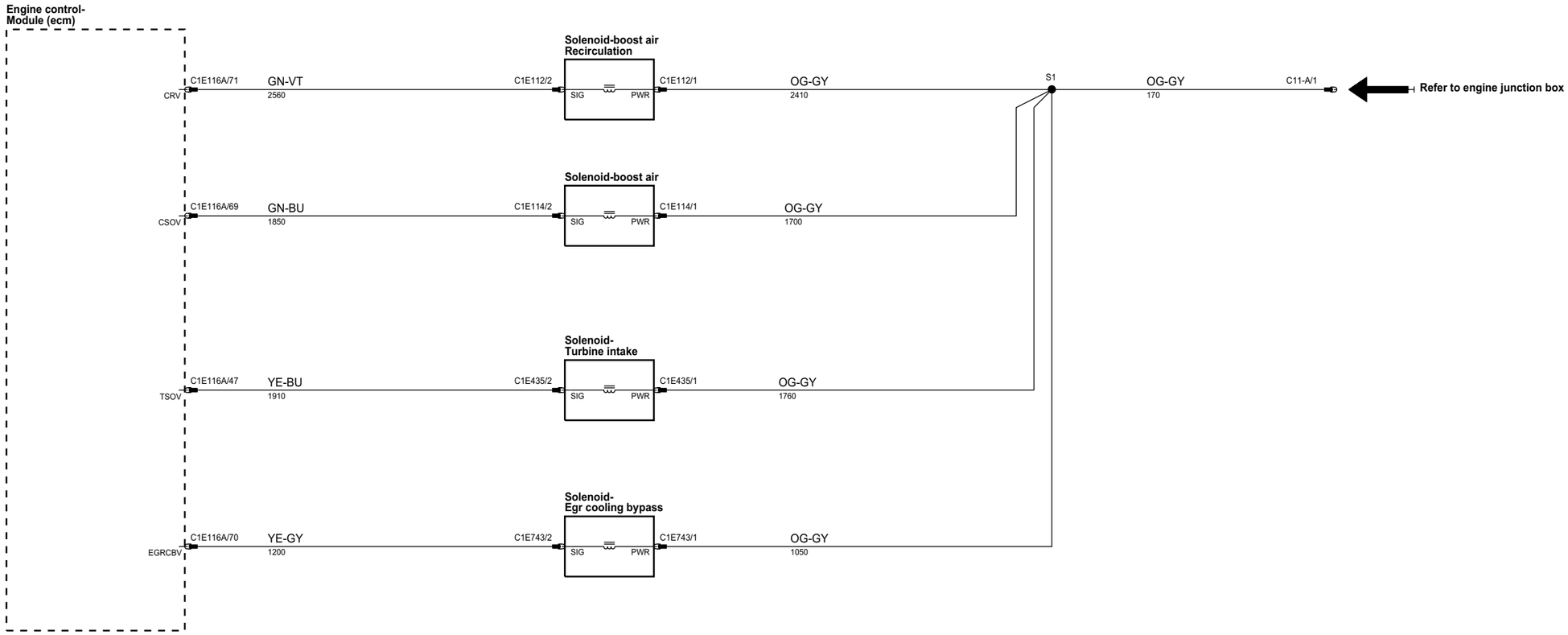
phtdv6-70038-a



C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

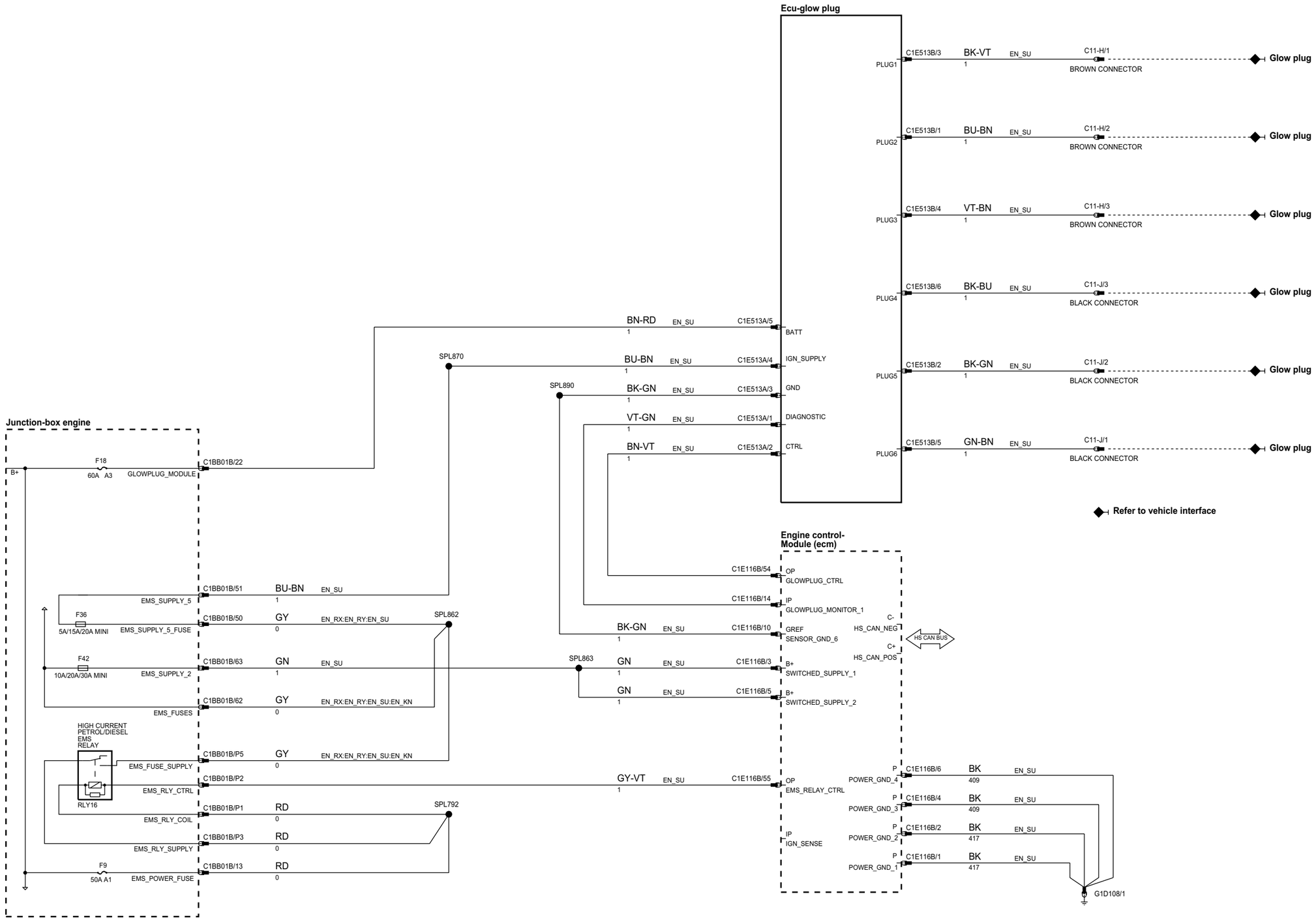
x

phtdv6-70038-b

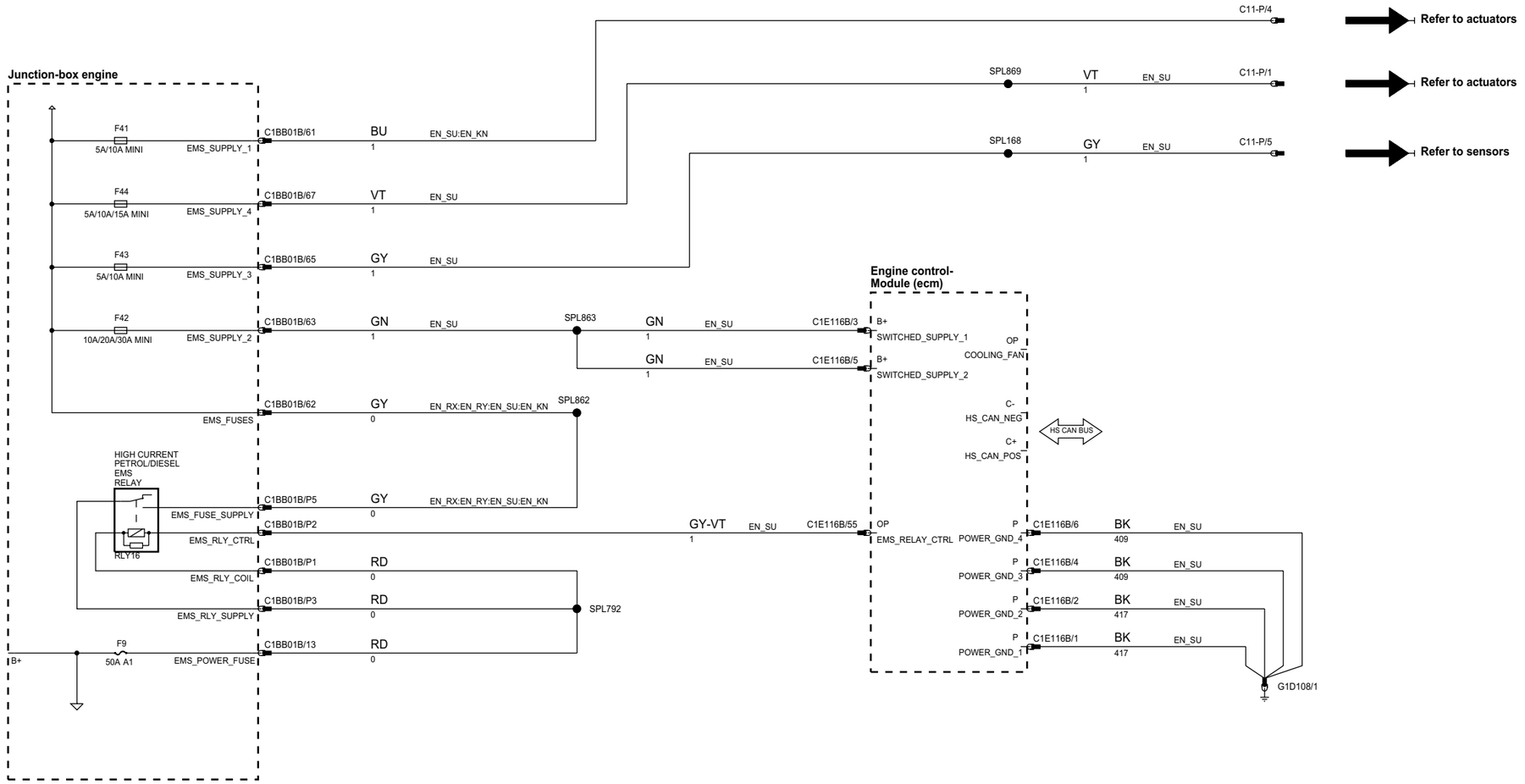


C11-A	=	C11-P
C11-B	=	C11-N
C11-C	=	C11-M

phcr83-70037-d2-a4

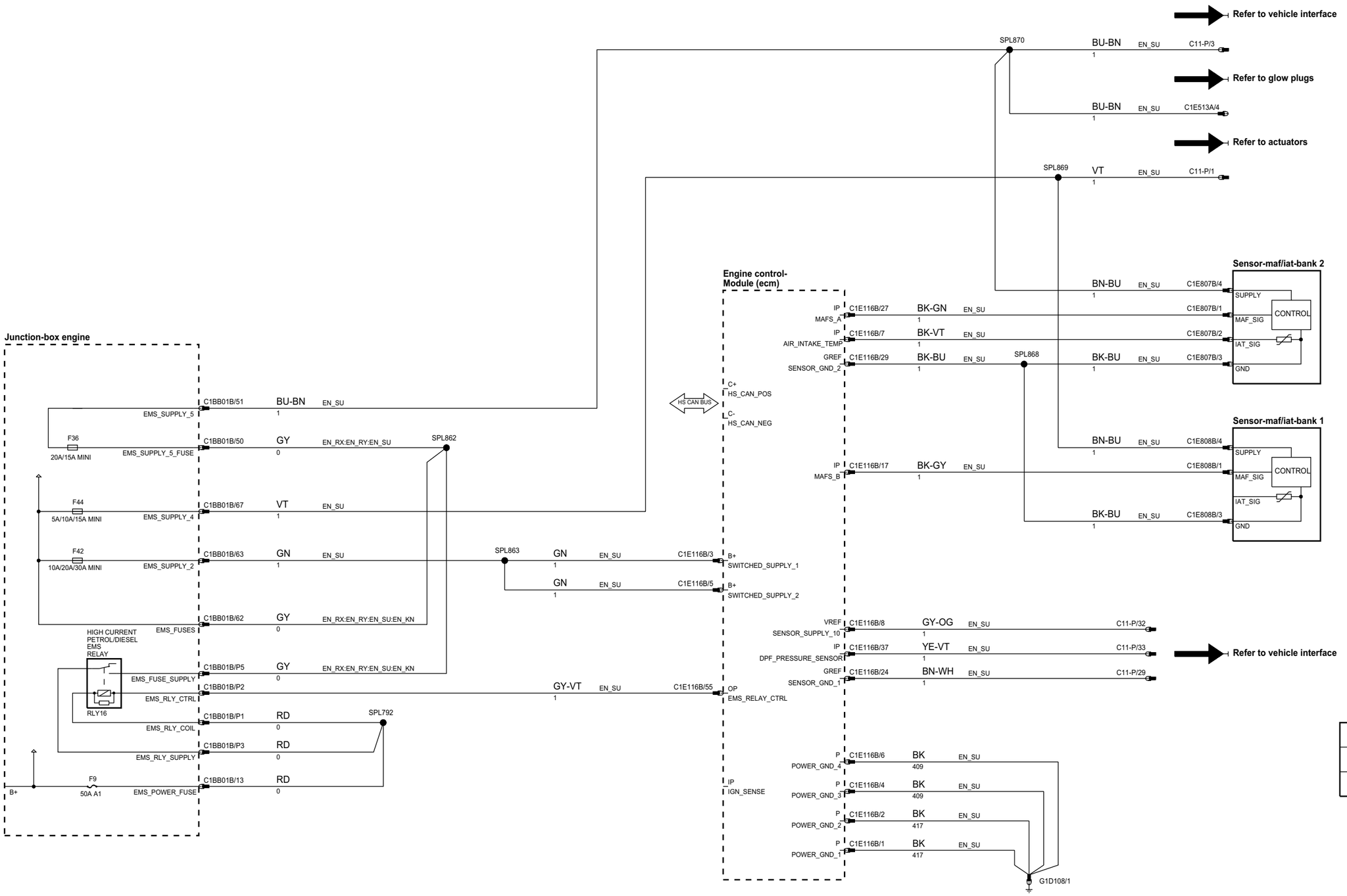


phcr83-70038-d2-a4

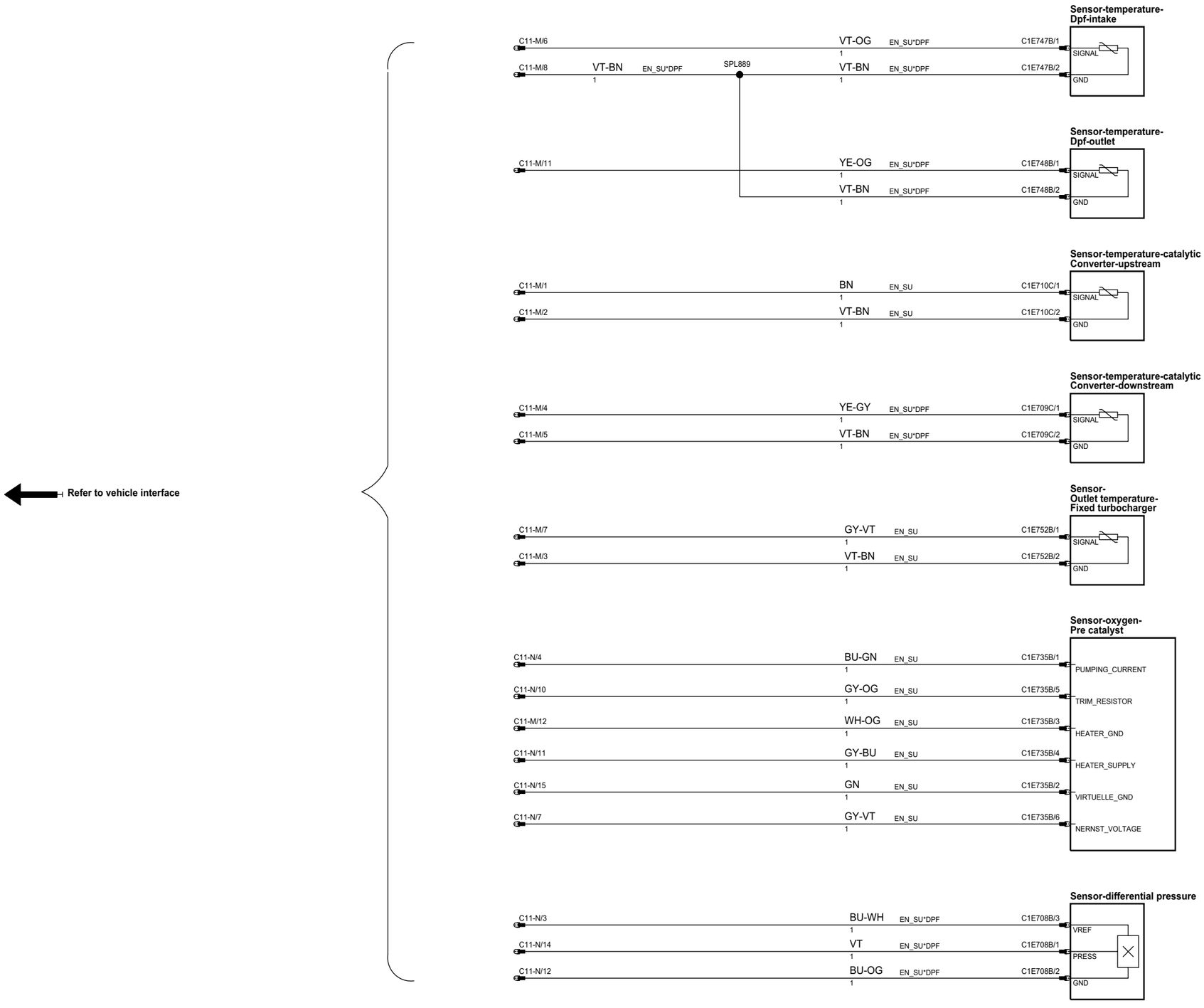


C11-P = C11-A
C11-N = C11-B
C11-M = C11-C

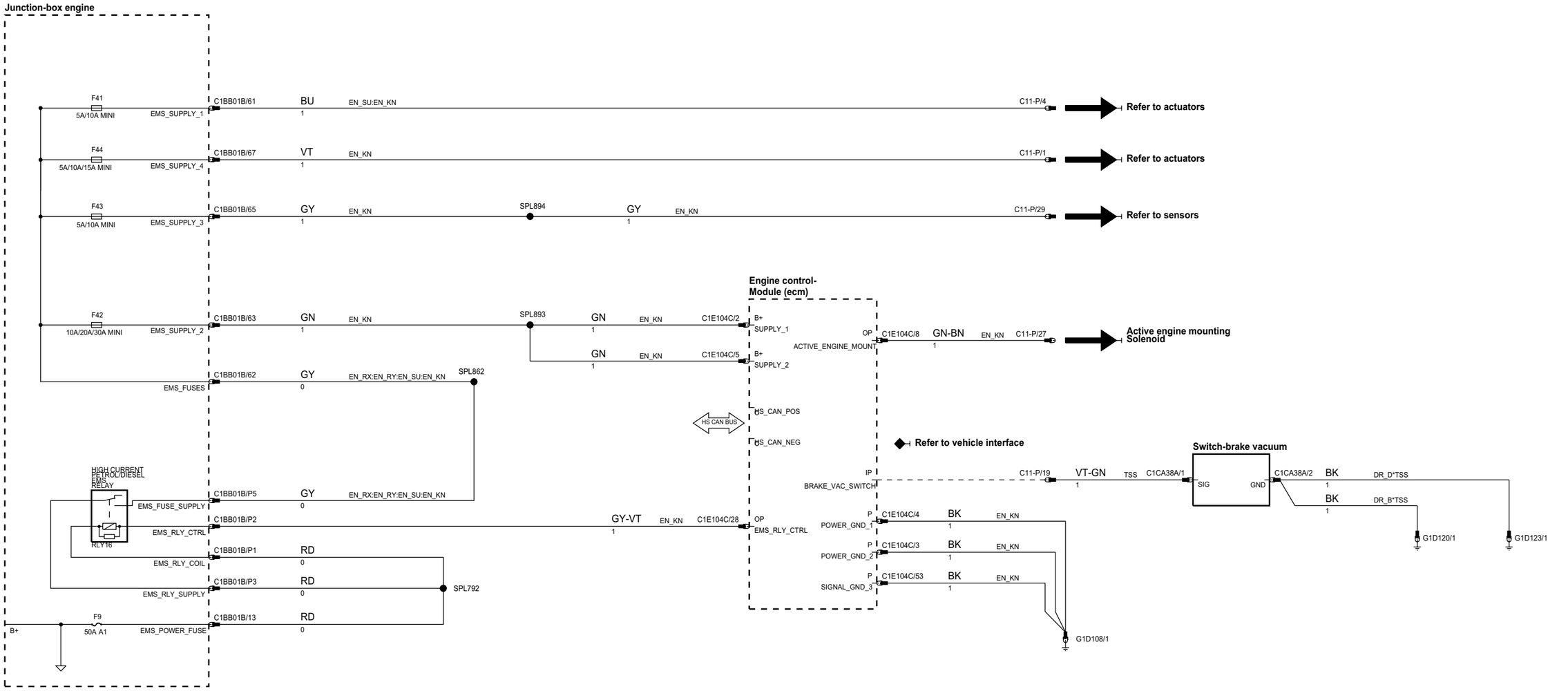
phcr83-70035-d2-a4



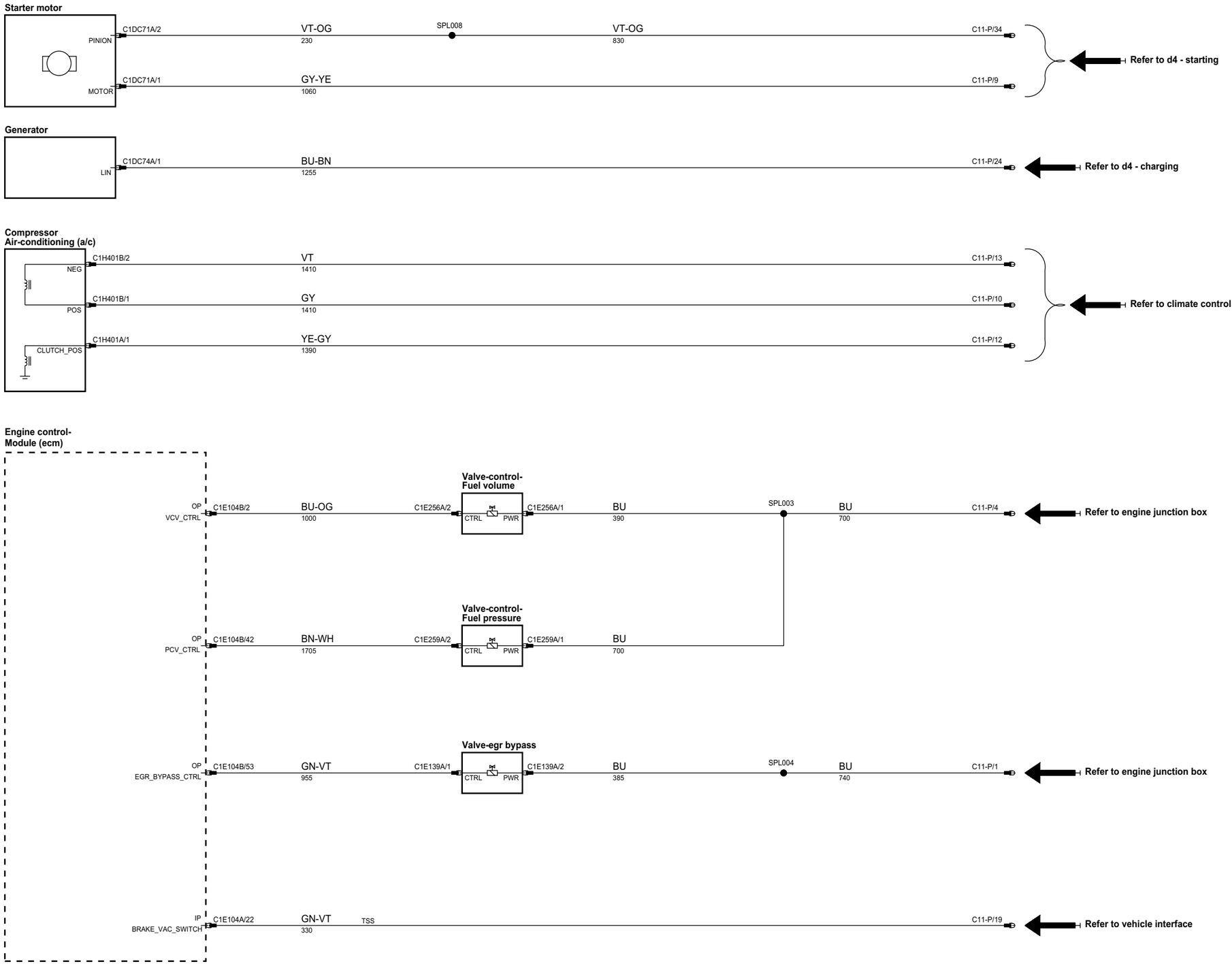
phcr83-70035-d3-a4



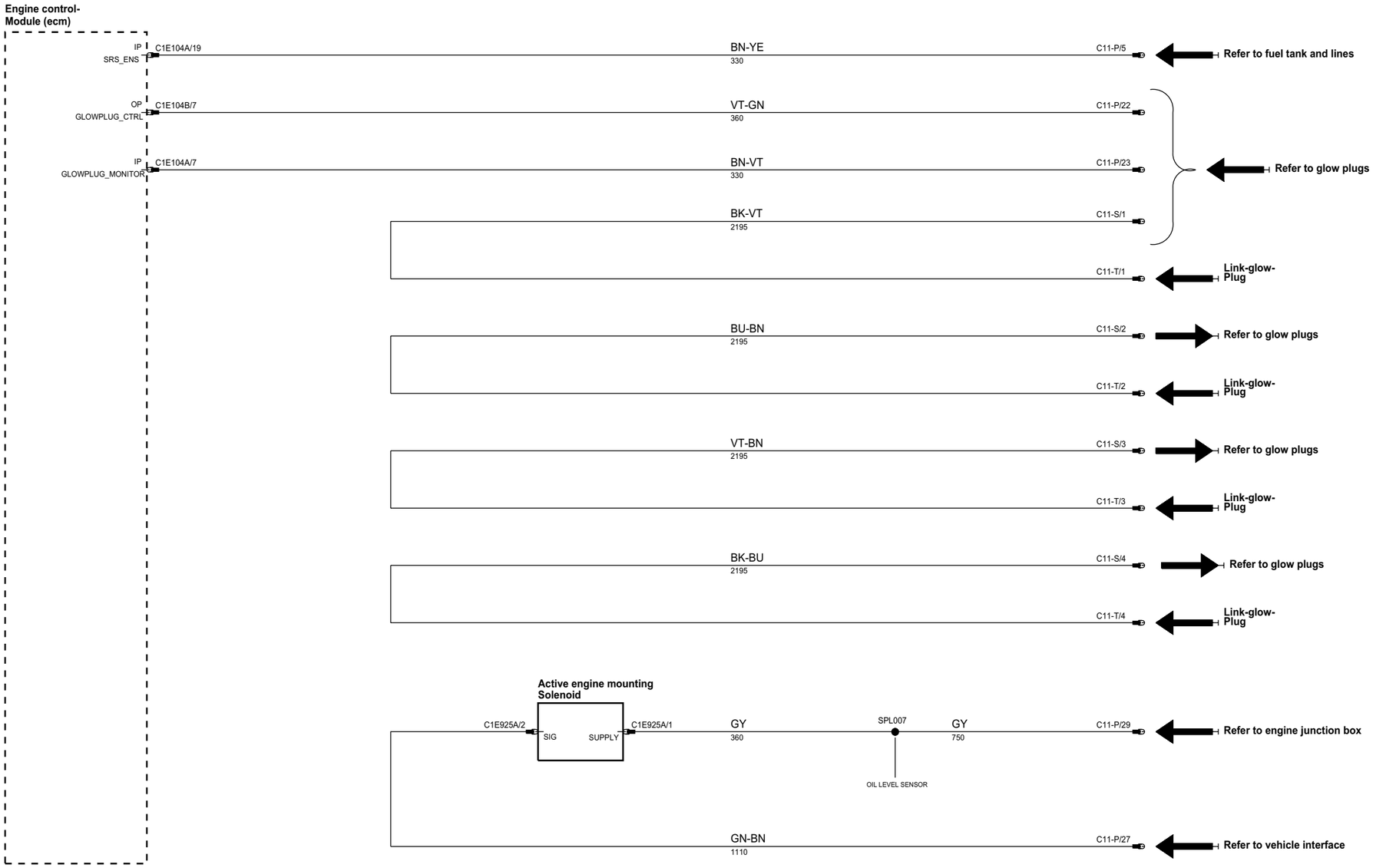
phcr83-70031-d-a4



phdw12c-70031-a-a3

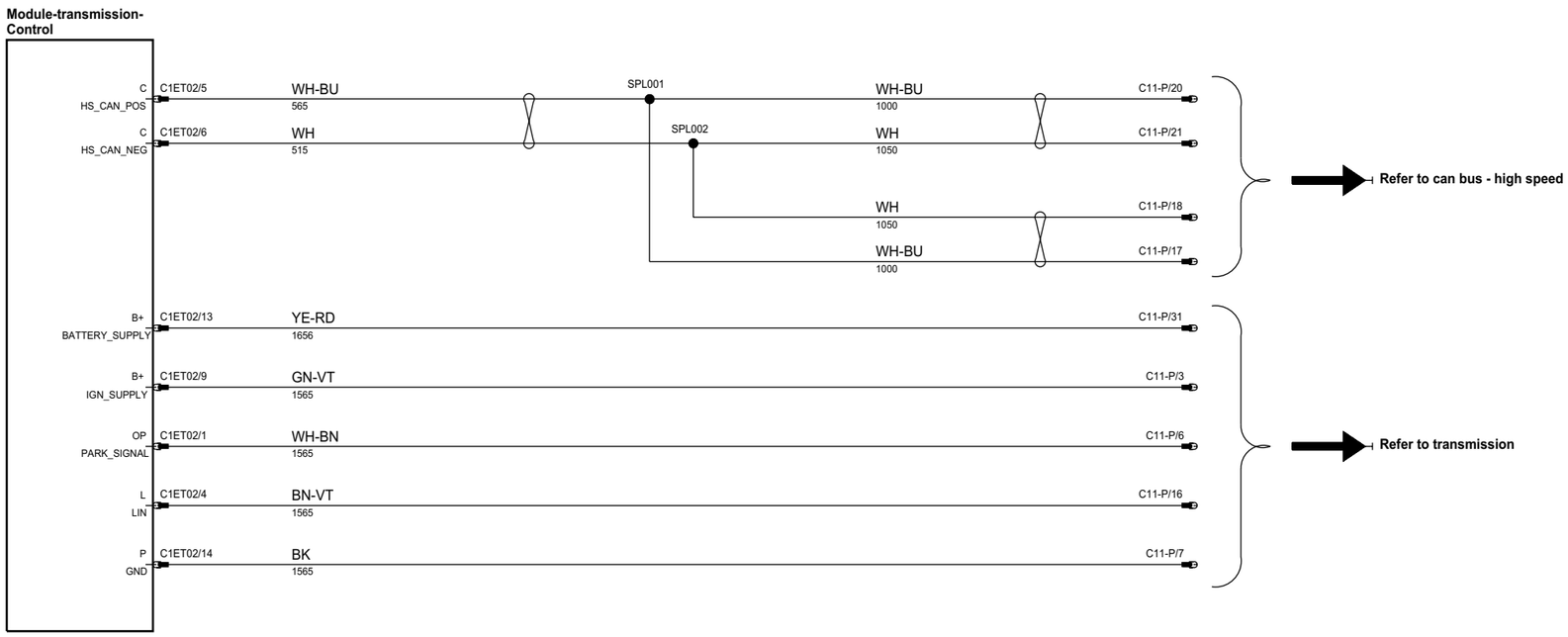


phdw12c-70031-b-a3



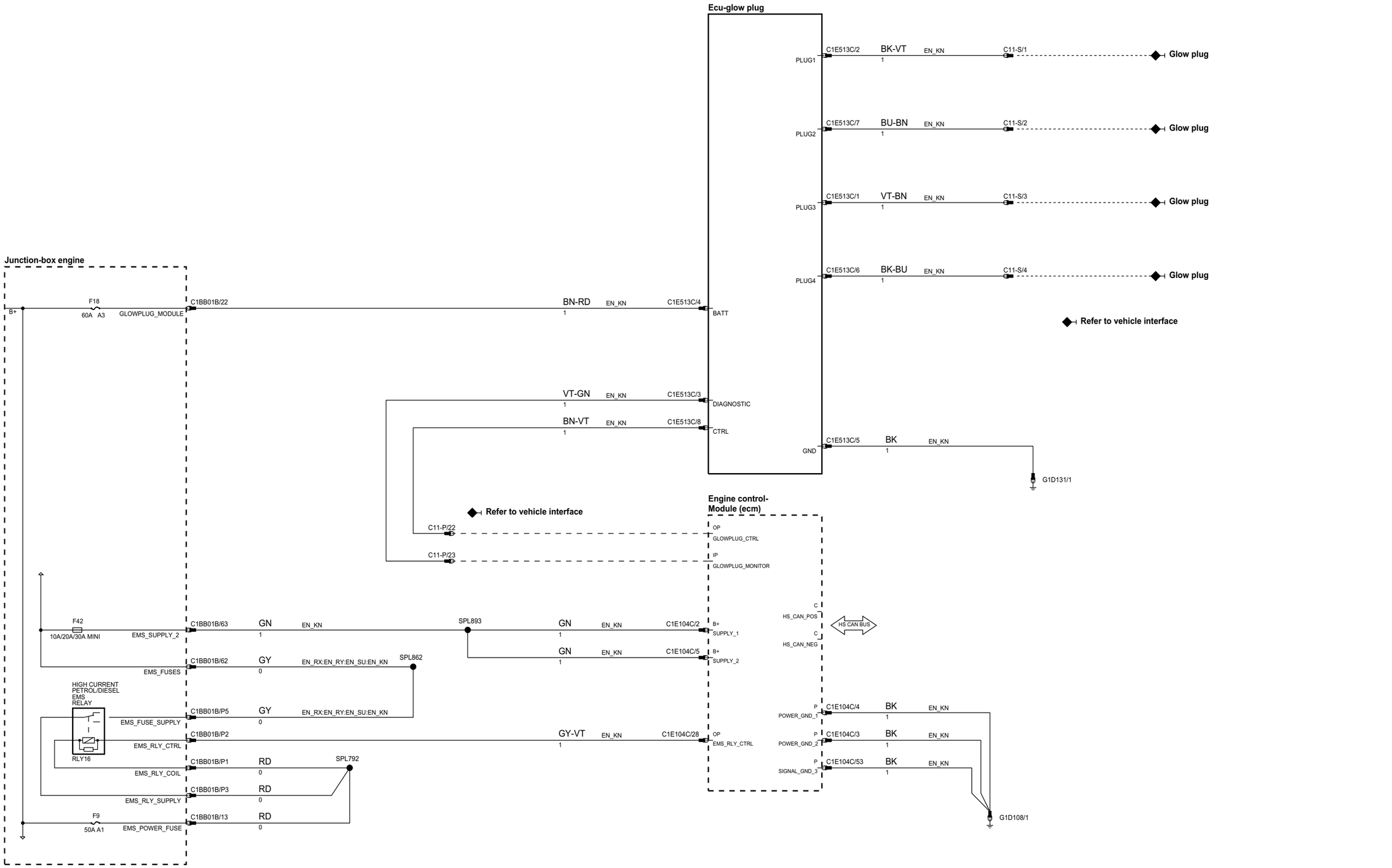
x

phdw12c-70031-c-a3



x

phcr83-70037-d-a4



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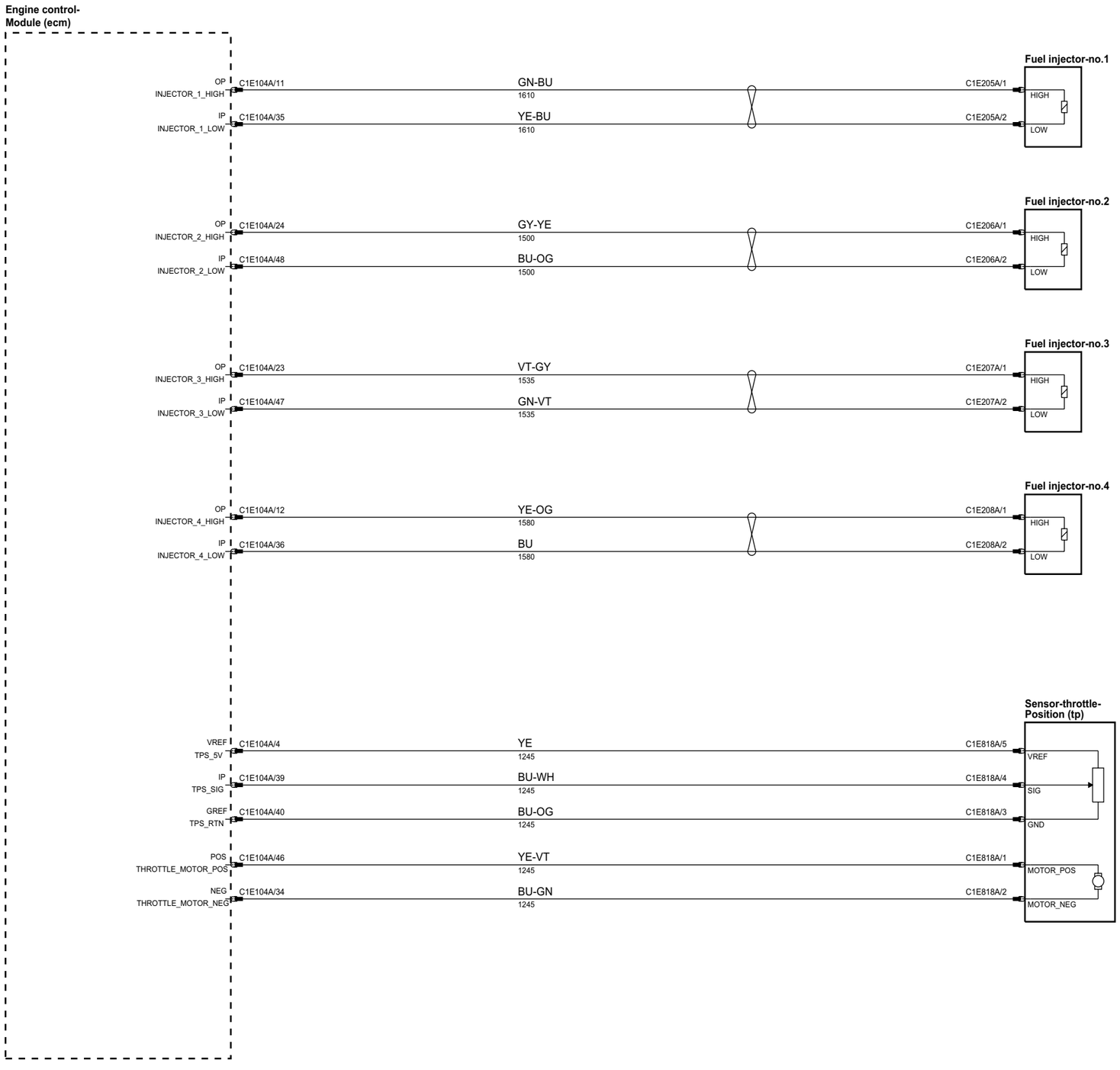
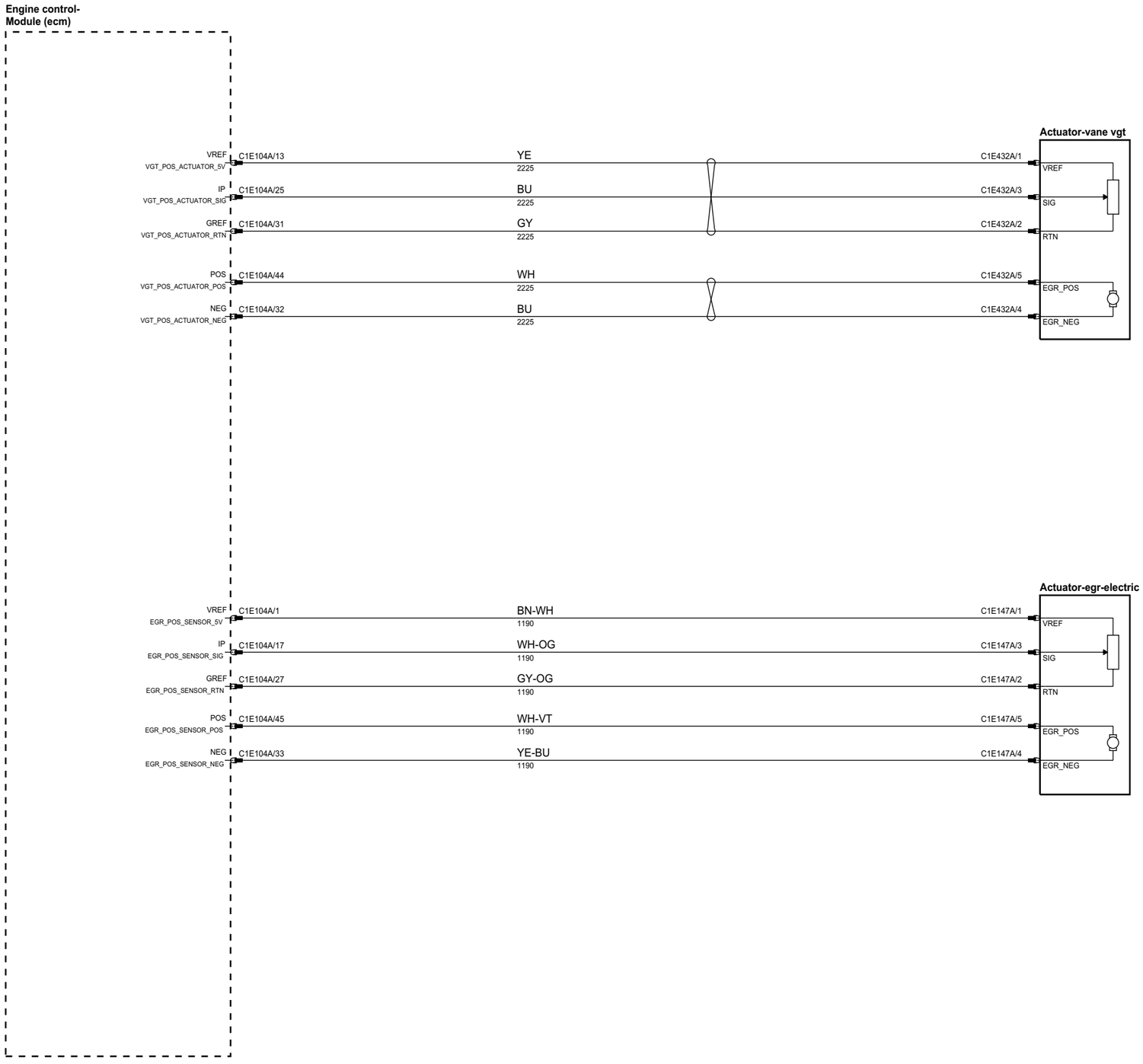


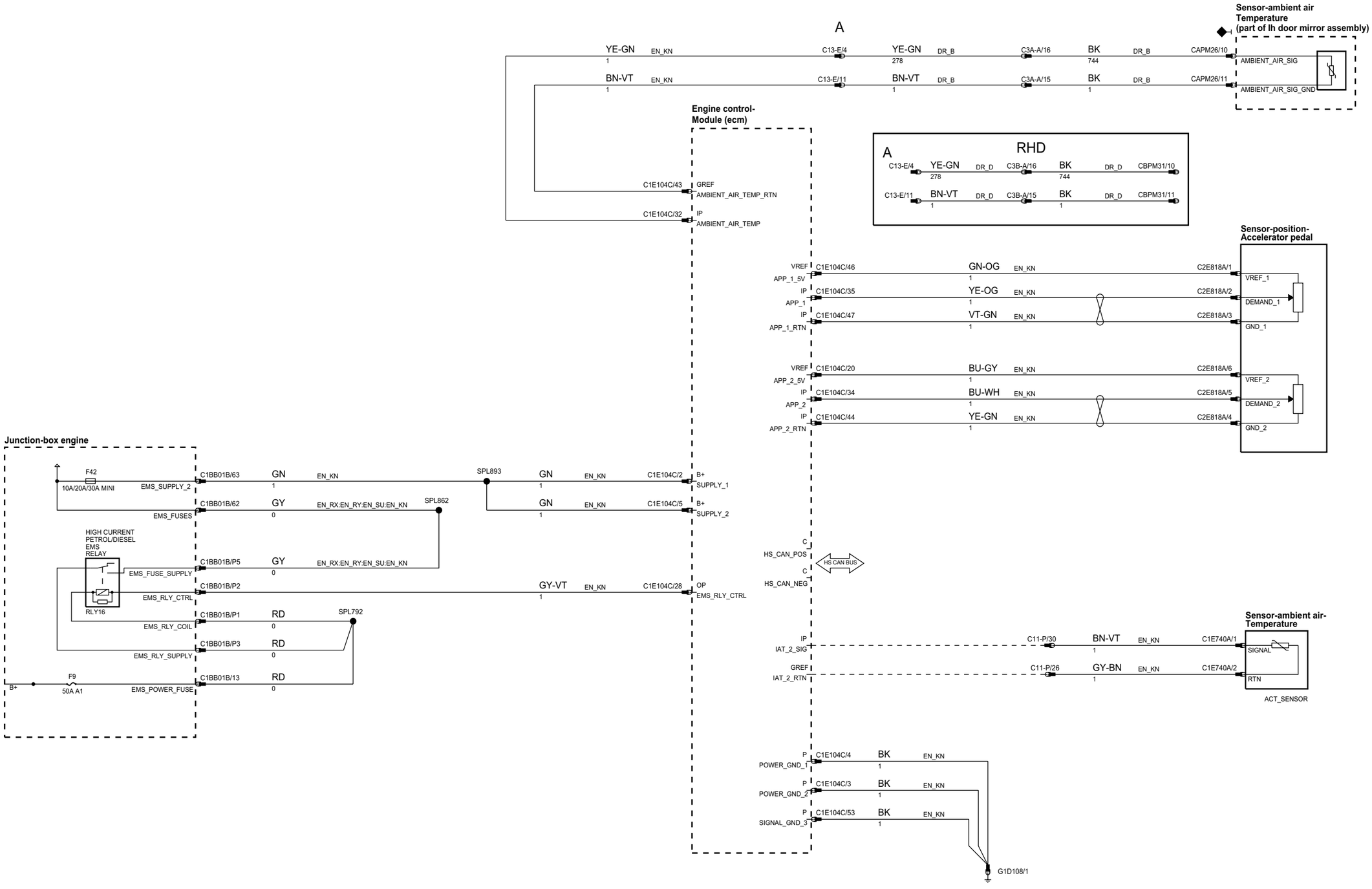
x

phdw12c-70038-b-a3

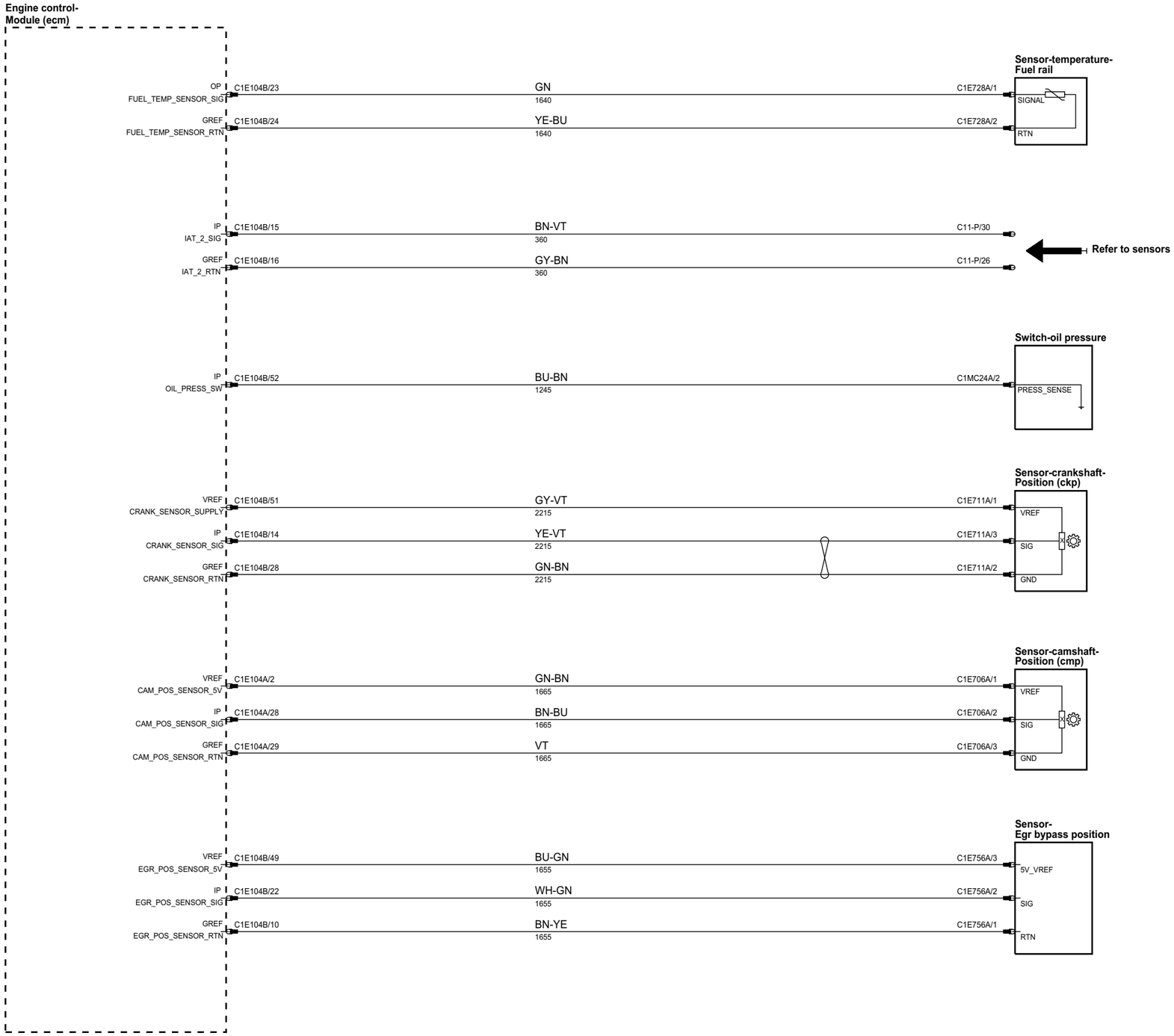


x

phcr83-70034-d-a4



phdw12c-70034-a-a3



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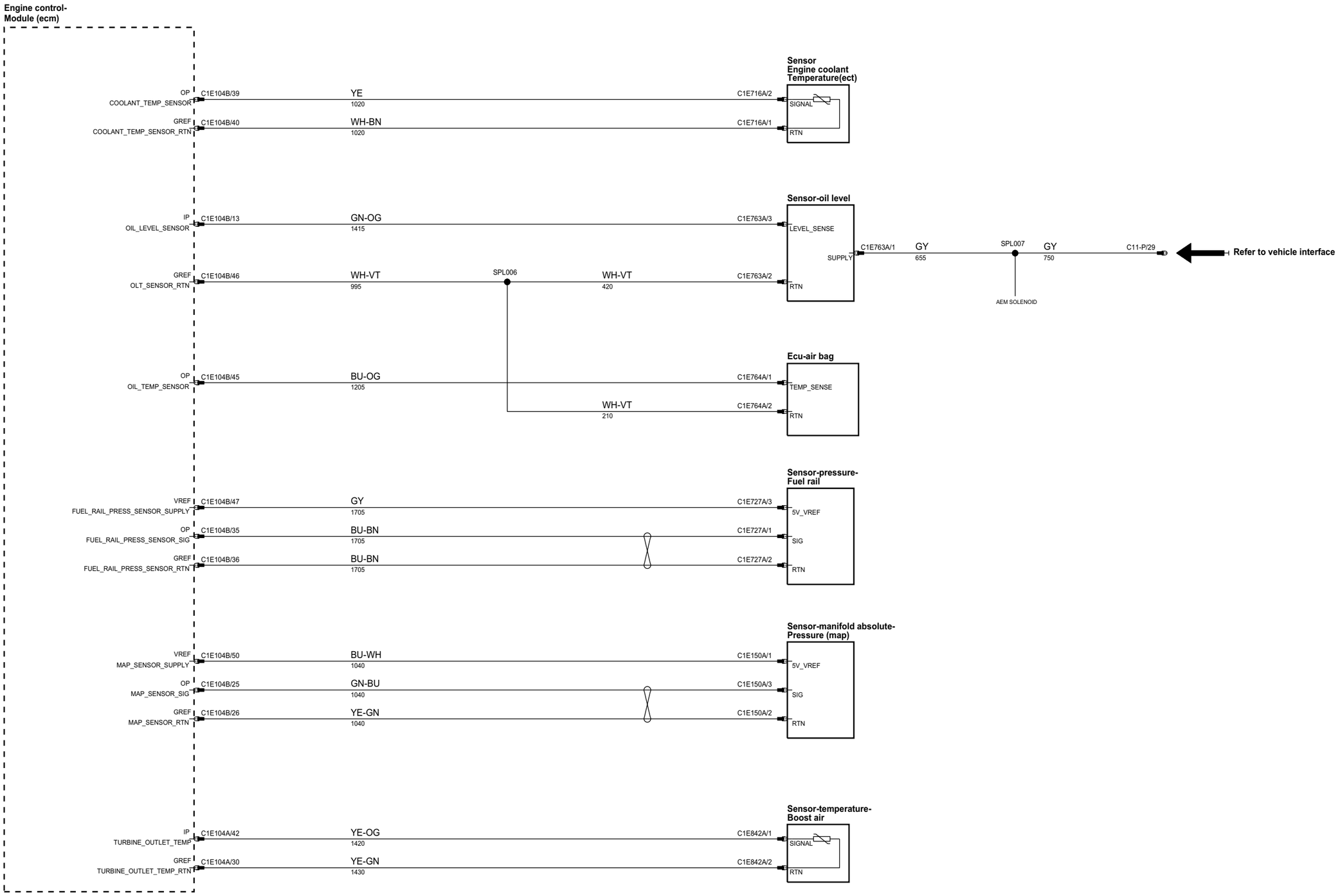

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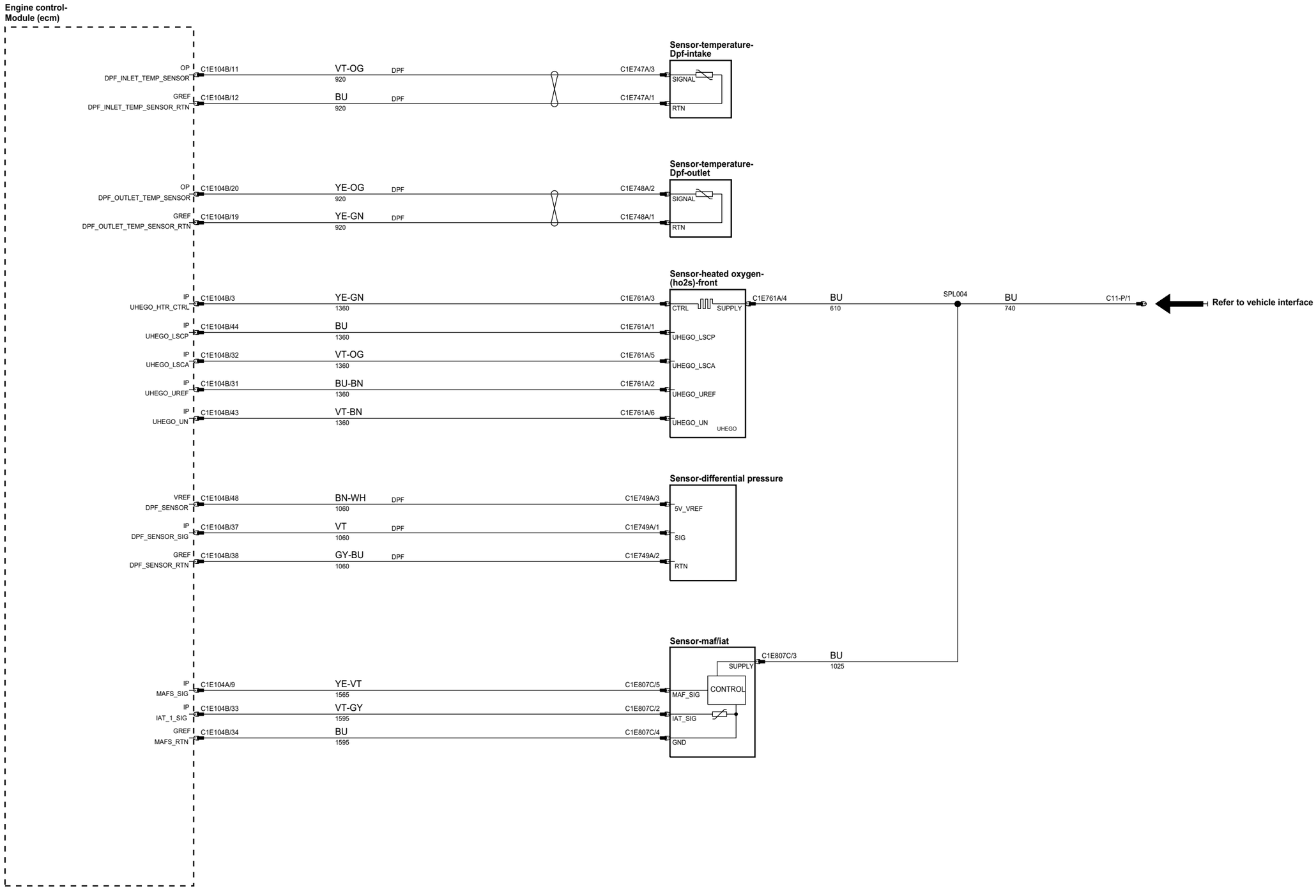
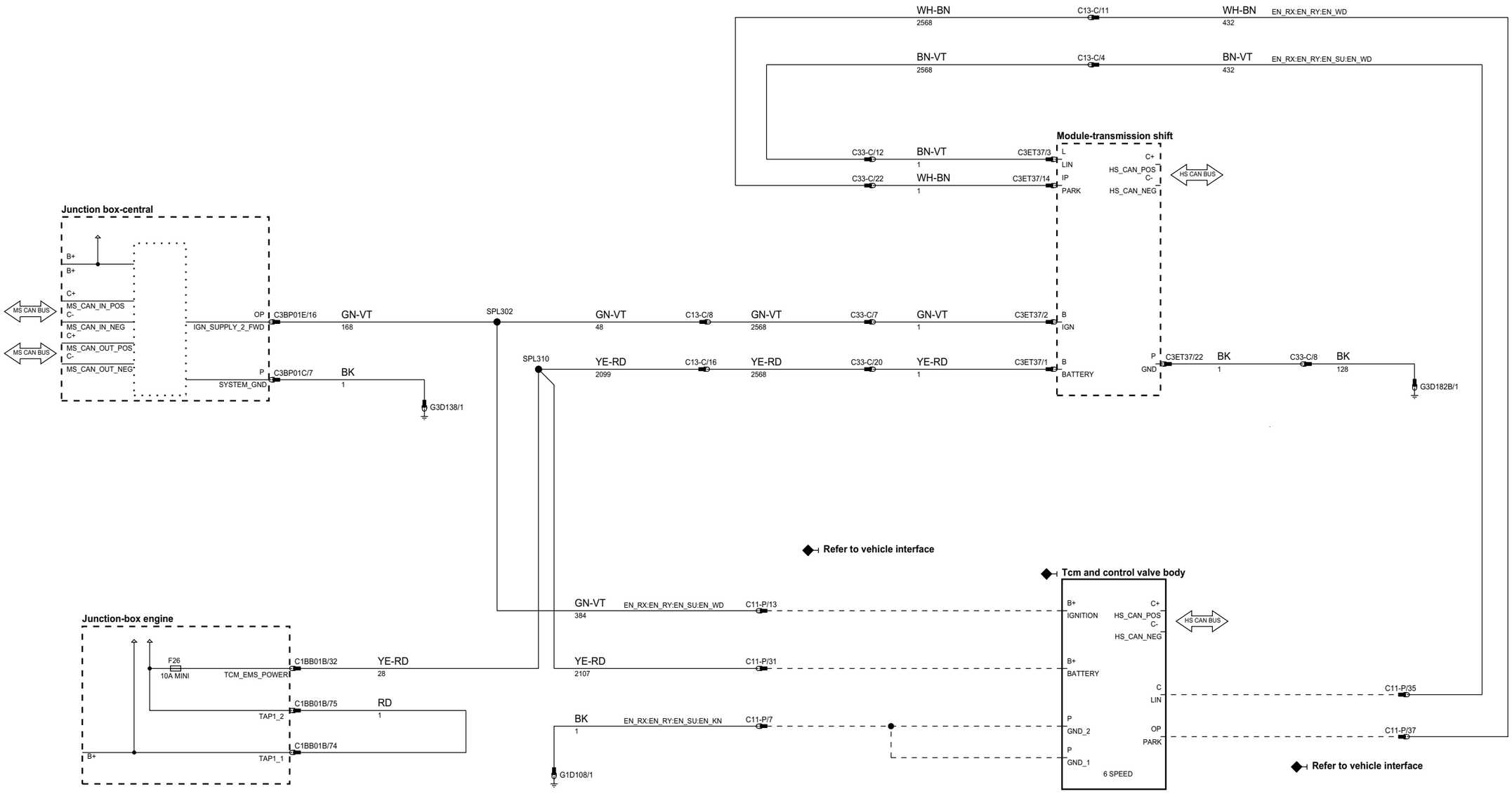
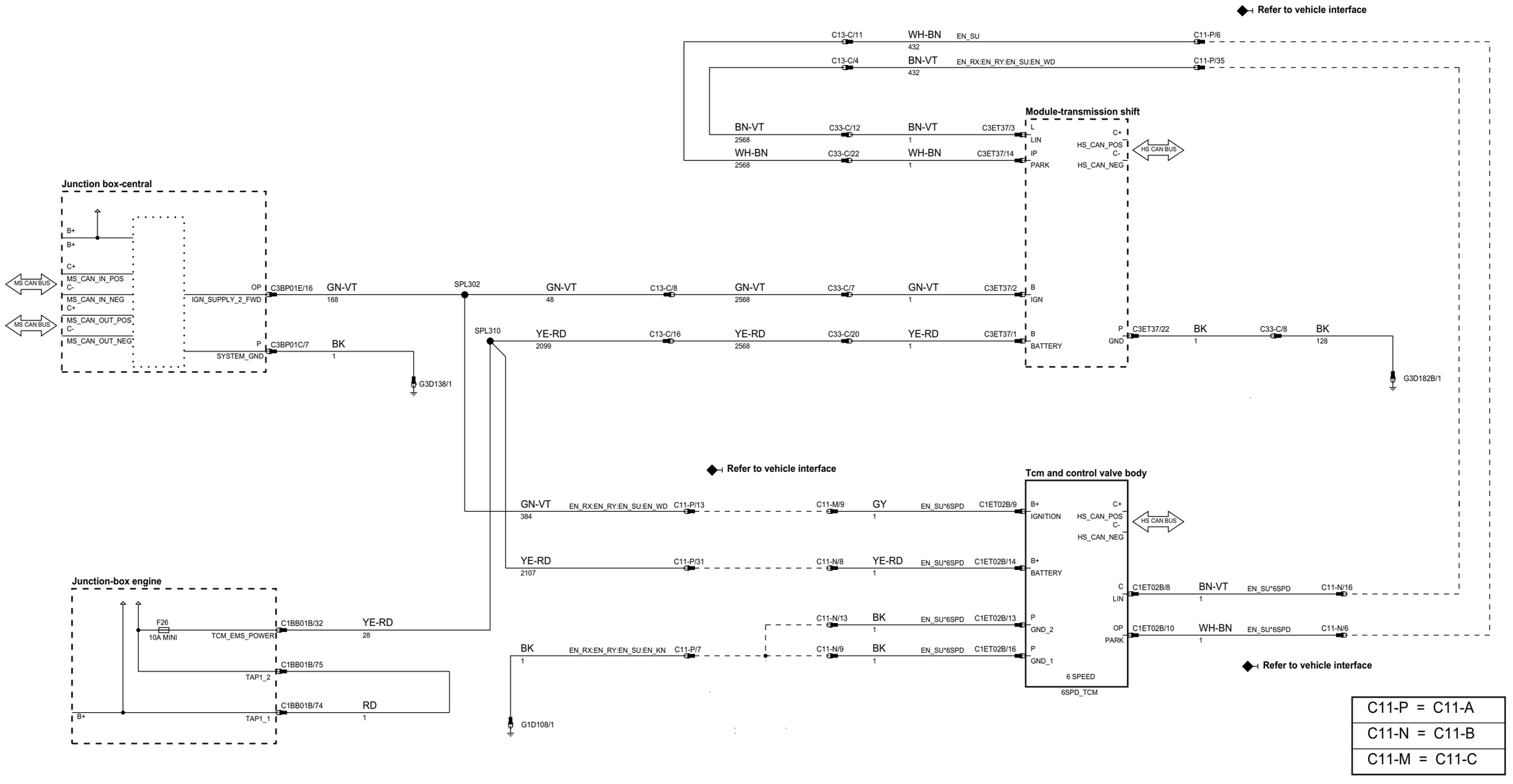


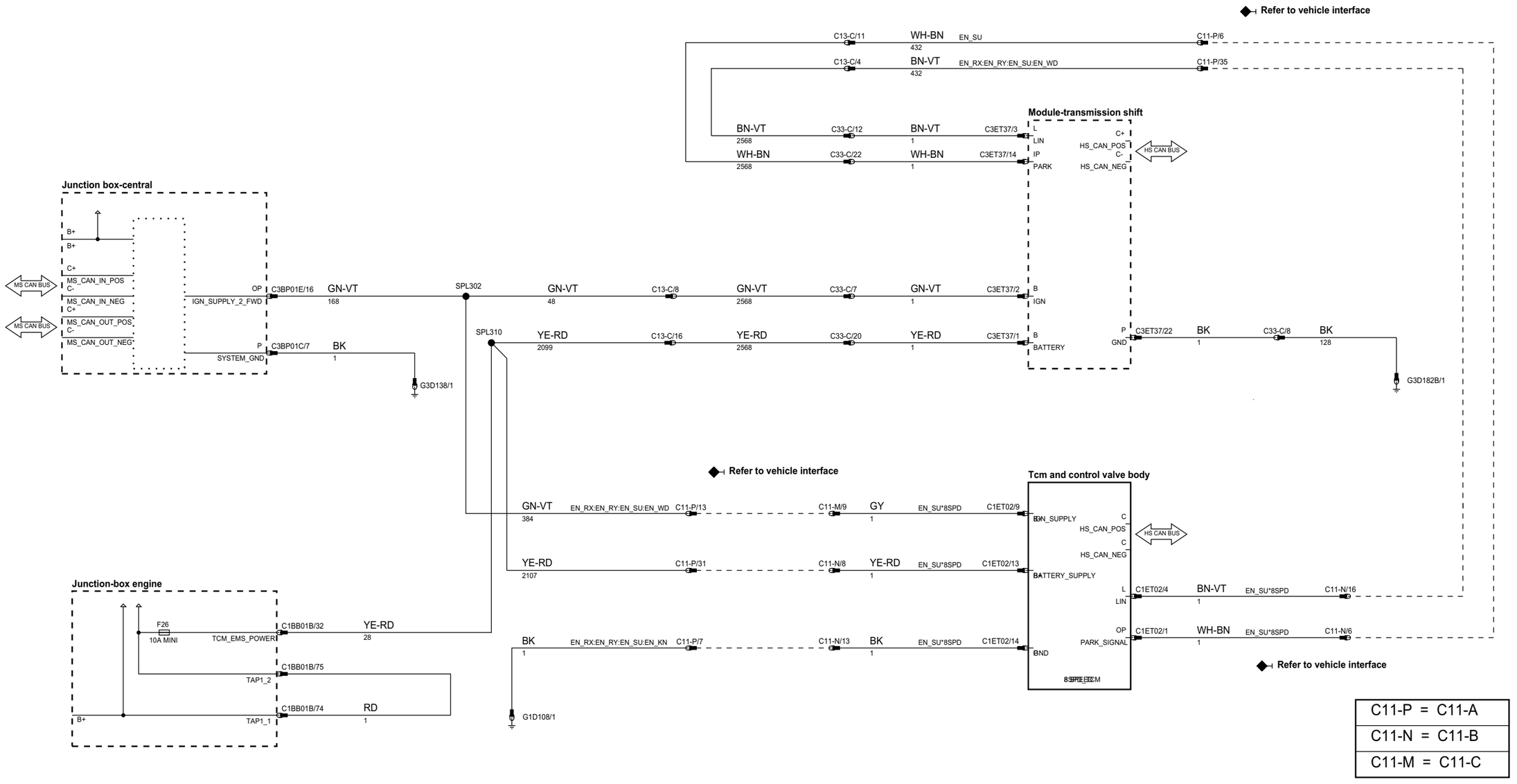
phcr83-70041-b-a4



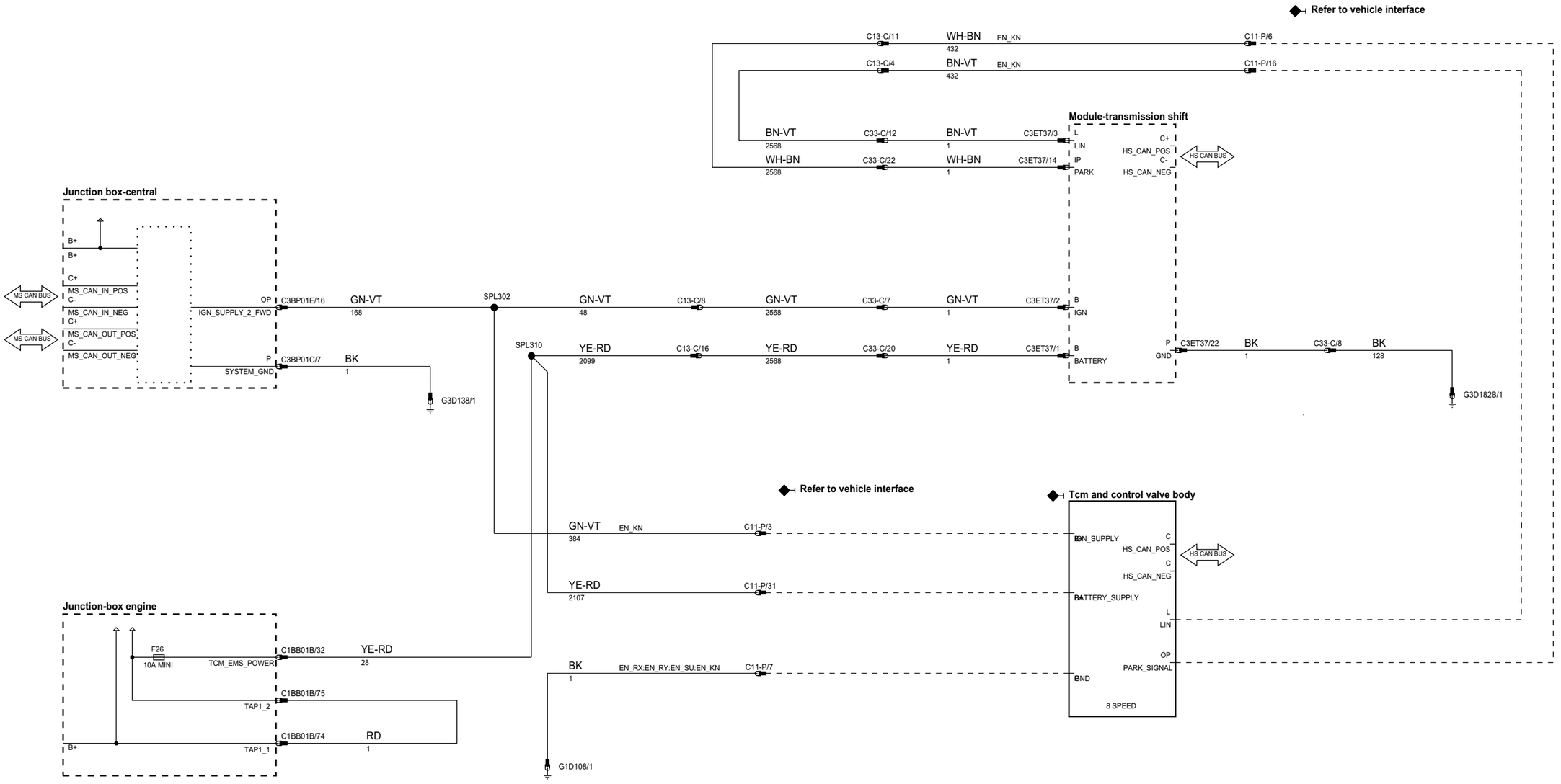
phcr83-70041-d3-a4



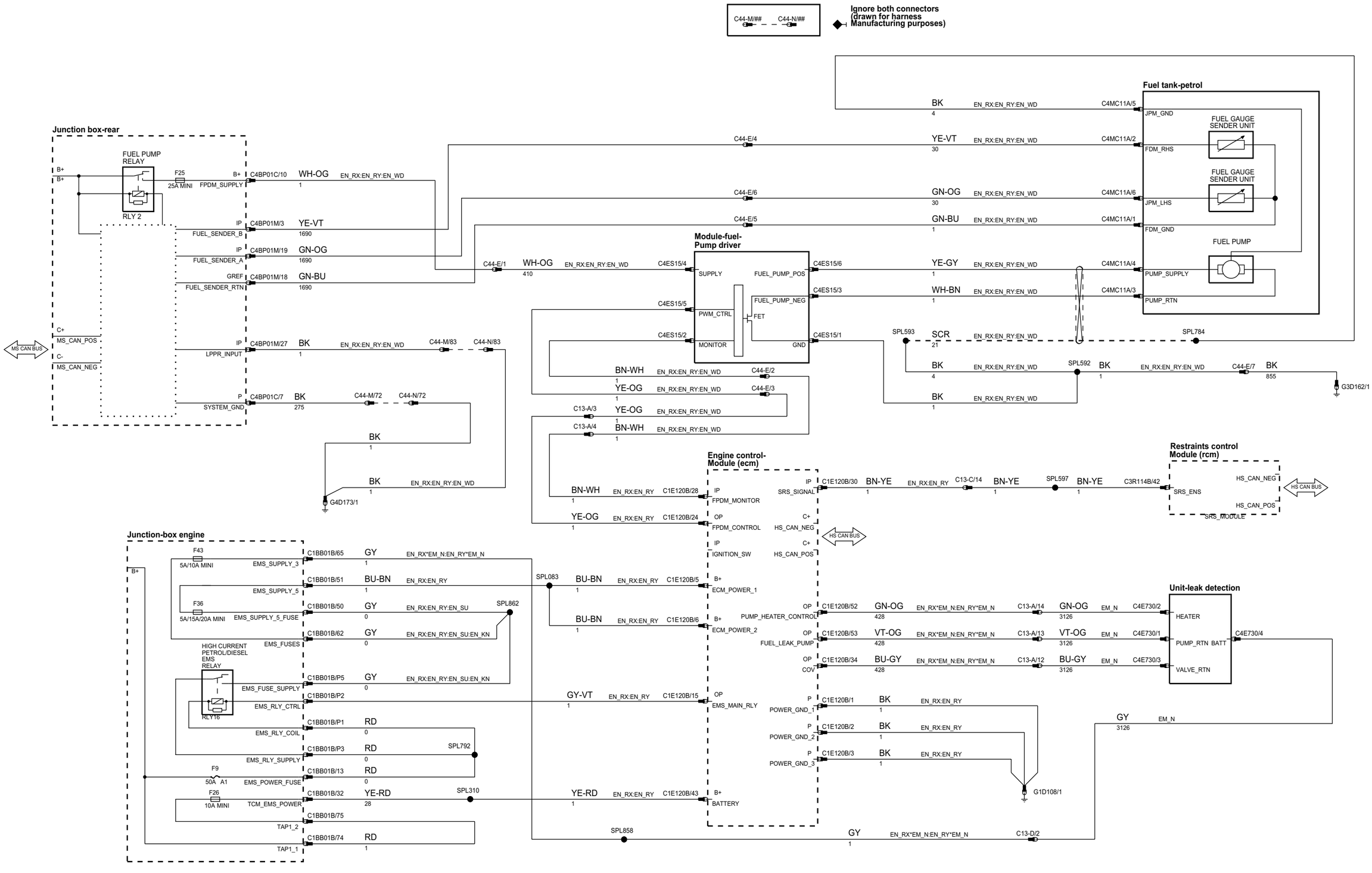
phcr83-70041-d2-a4



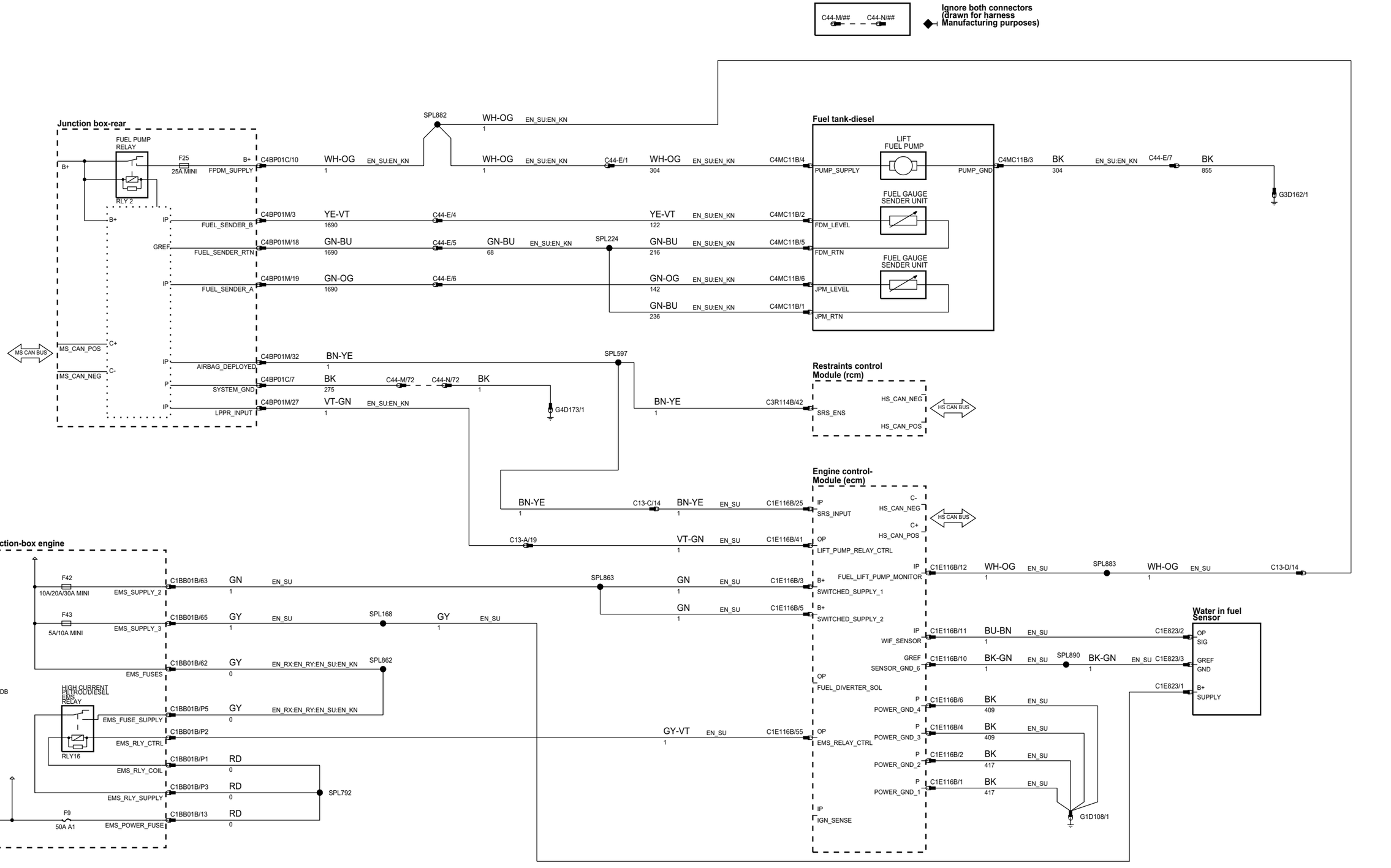
phcr83-70041-d-a4



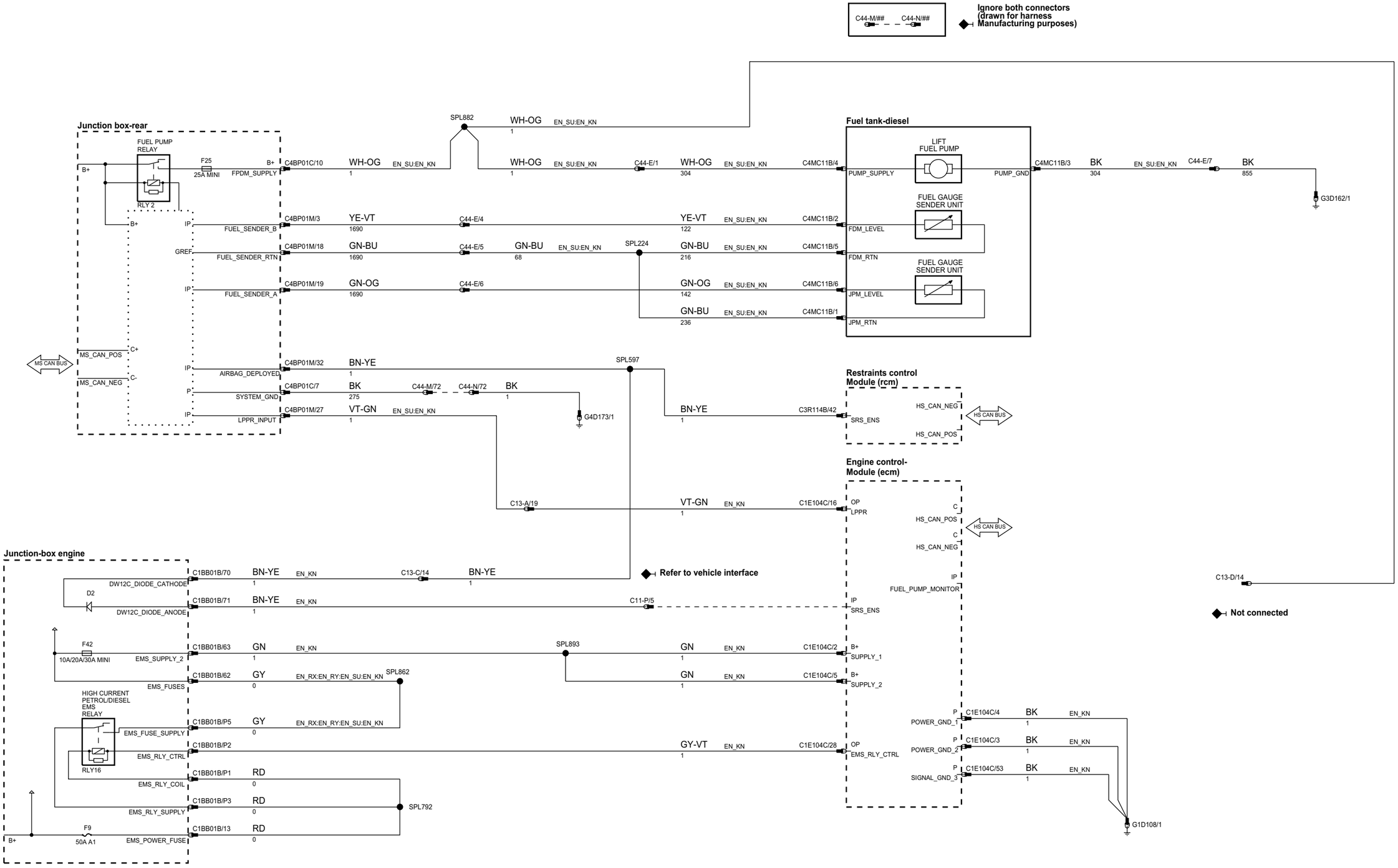
phcr83-70036-b-a4



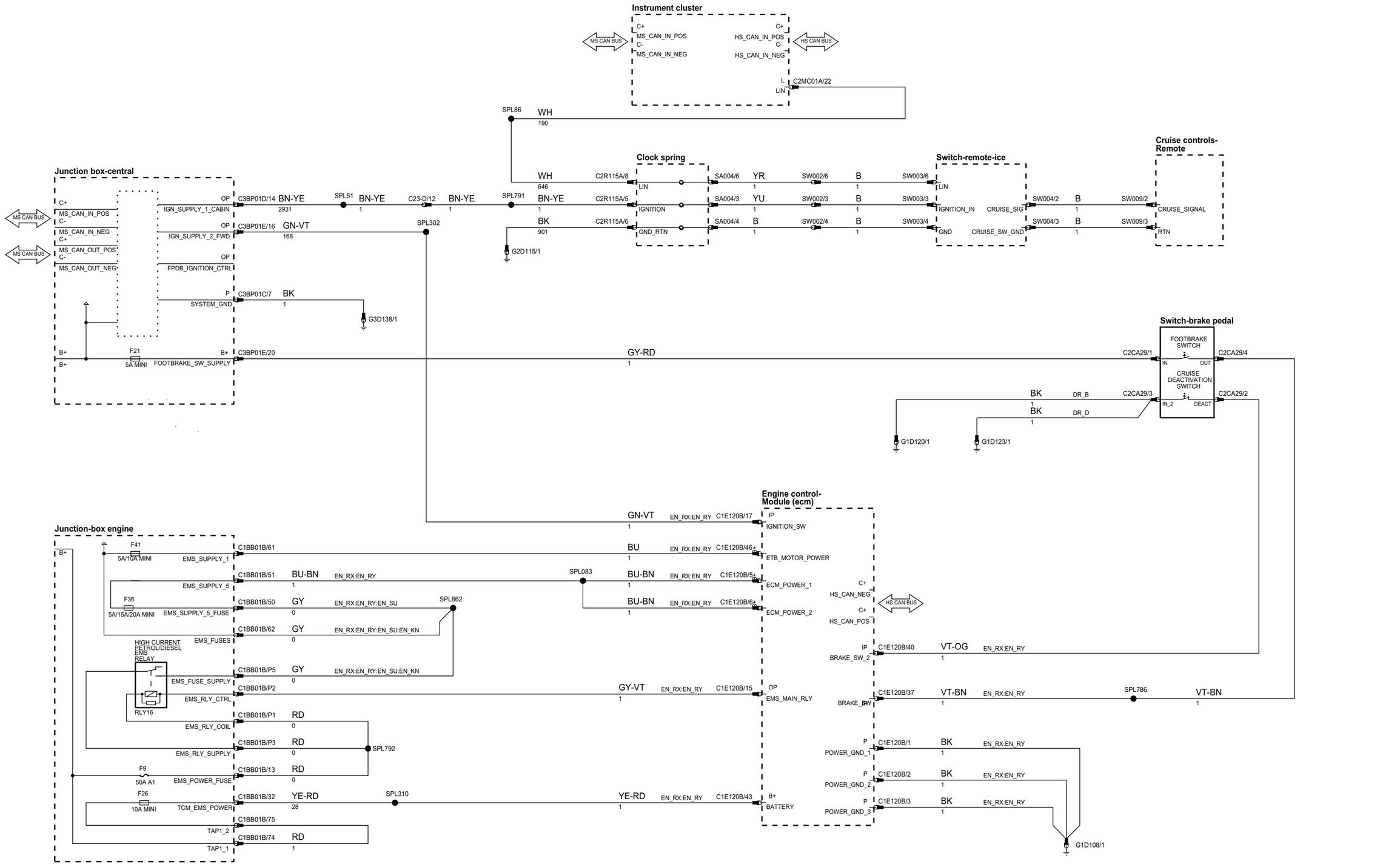
phcr83-70036-d2-a4



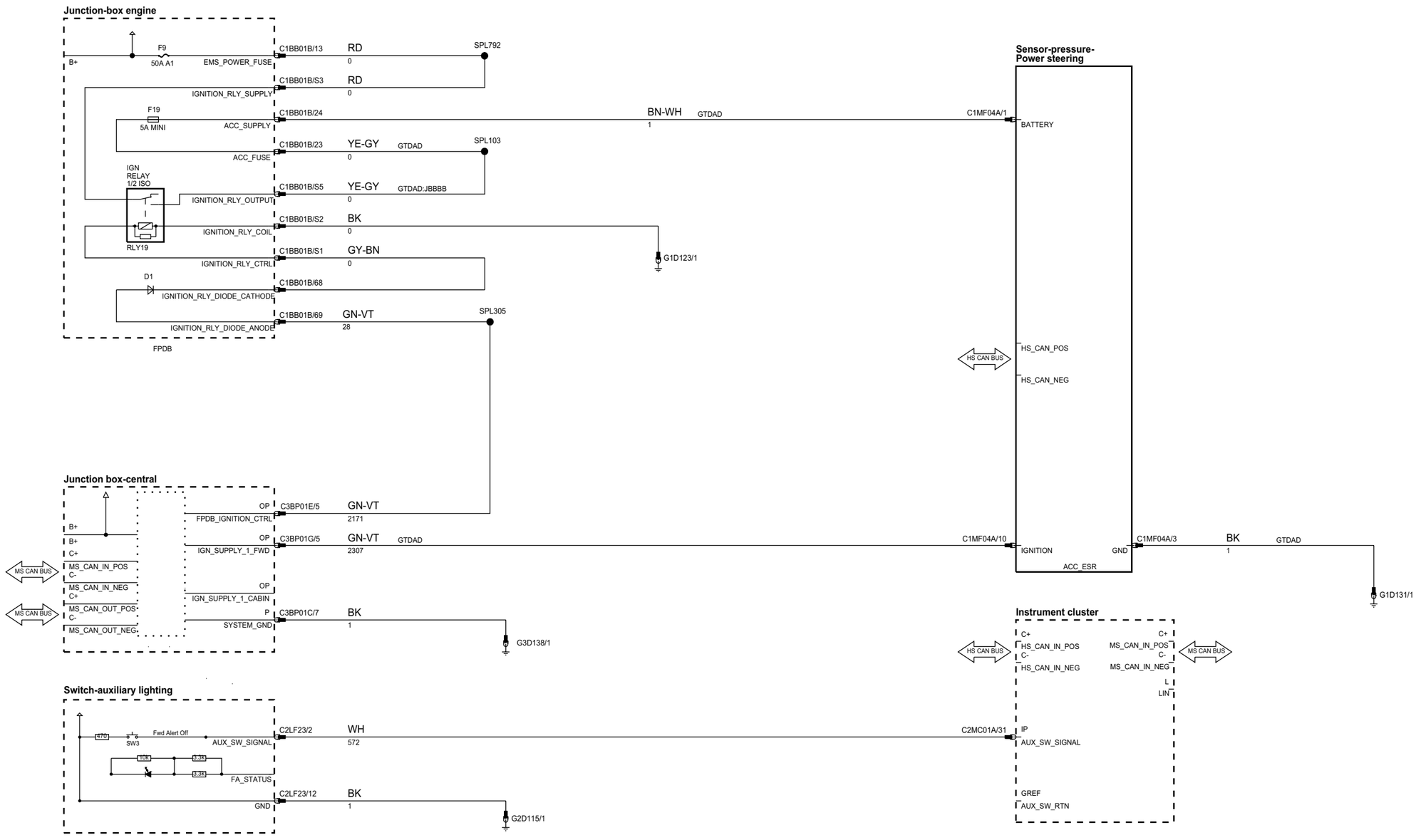
phcr83-70036-d-a4



phcr83-70190-b-a4



phcr83-70486-a-a4



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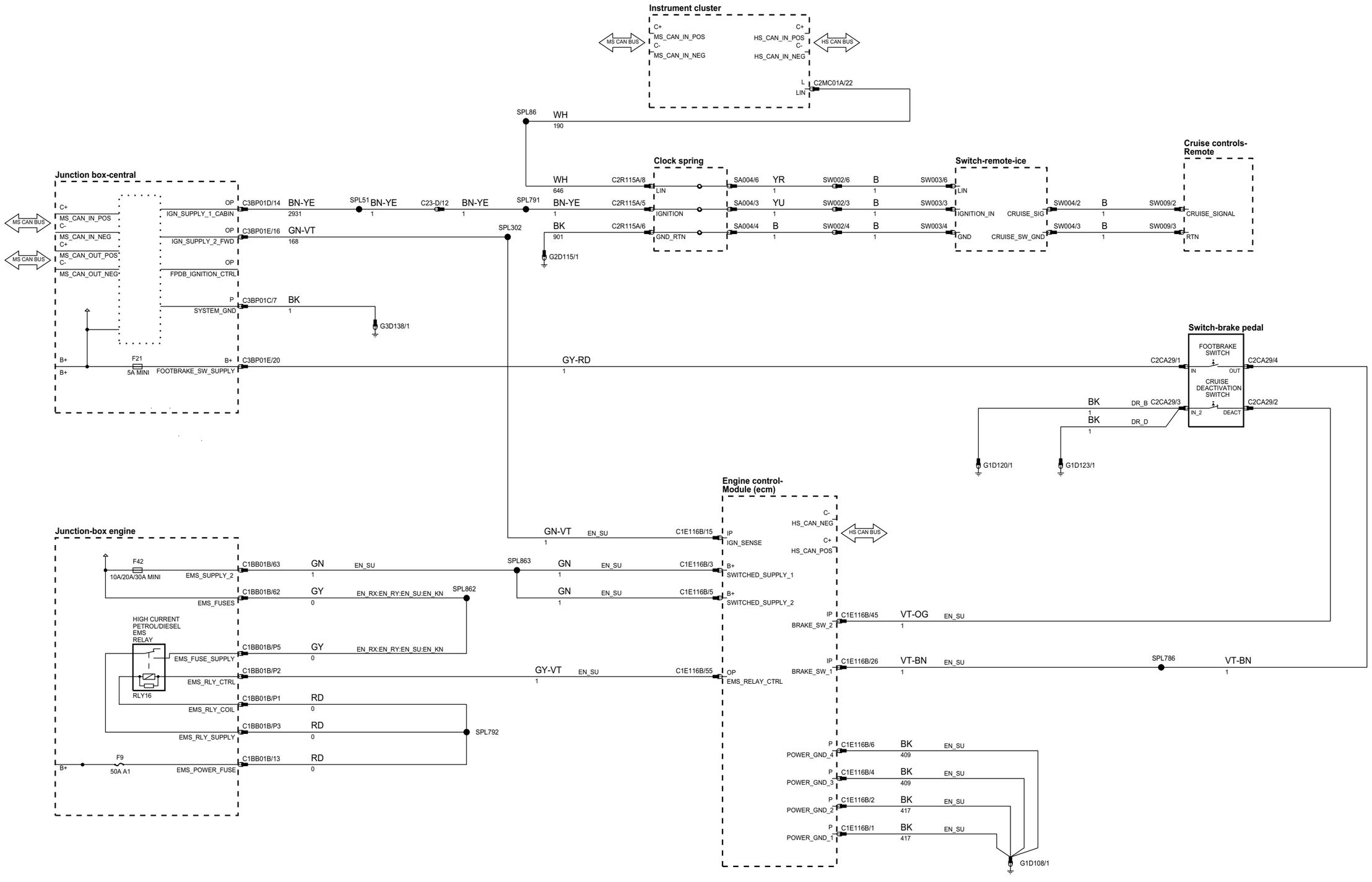

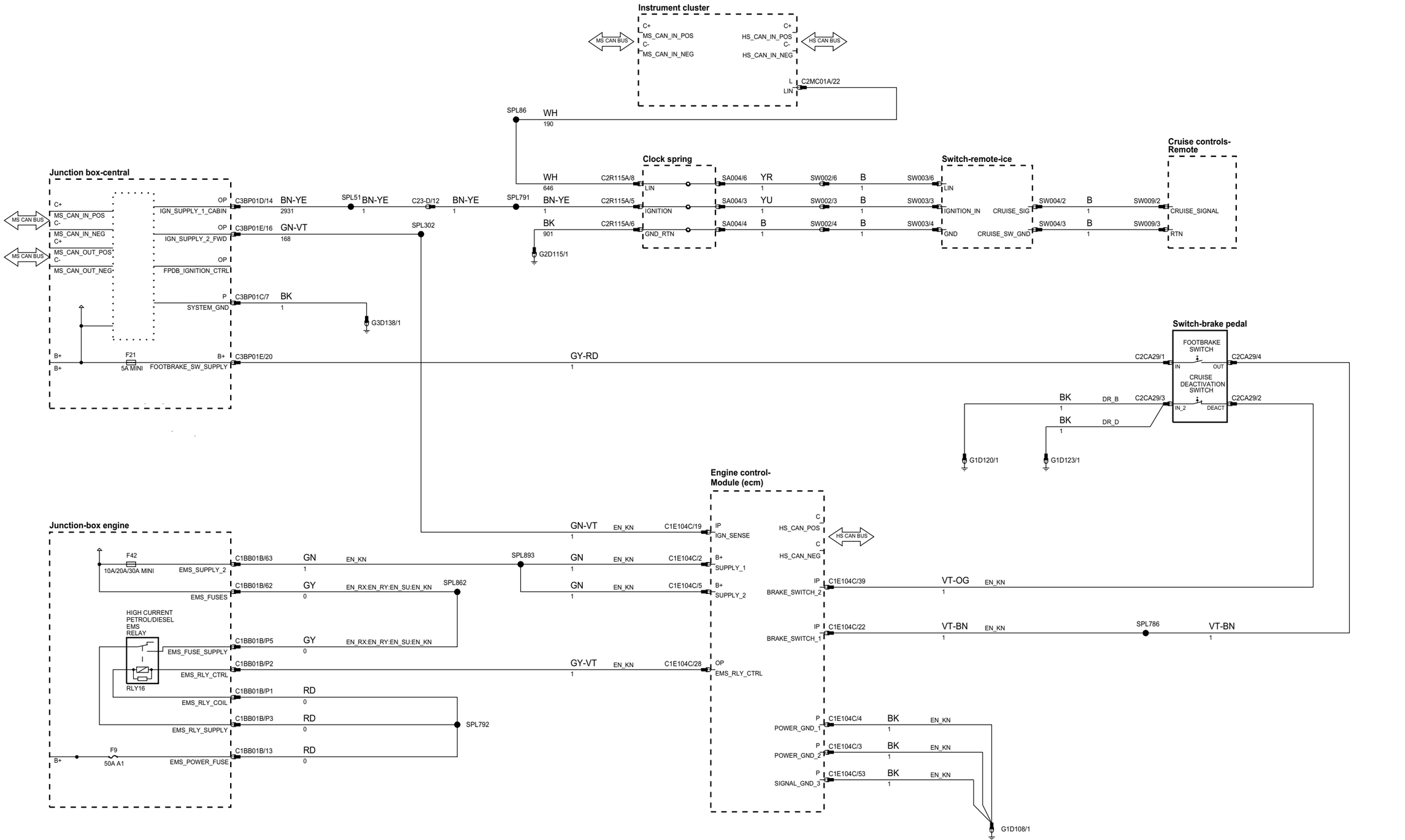
Instrument cluster
C+
MS_CAN_IN_POS
C-
MS_CAN_IN_NEG
MS CAN BUS
C+
HS_CAN_IN_POS
C-
HS_CAN_IN_NEG
HS CAN BUS
L
LIN
C2MC01A/22
SPL86
WH
190
Junction box-central
C+
MS_CAN_IN_POS
C-
MS_CAN_IN_NEG
C+
MS_CAN_OUT_POS
C-
MS_CAN_OUT_NEG
MS CAN BUS
MS CAN BUS
OP
IGN_SUPPLY_1_CABIN
C3BP01D/14
BN-YE
2931
SPL51
BN-YE
1
C23-D/12
BN-YE
1
SPL791
OP
IGN_SUPPLY_2_FWD
C3BP01E/16
GN-VT
168
SPL302
OP
FPDB_IGNITION_CTRL
P
SYSTEM_GND
C3BP01C/7
BK
1
G3D138/1
B+
B+
F21
5A MINI
B+
FOOTBRAKE_SW_SUPPLY
C3BP01E/20
GY-RD
1
Clock spring
WH
646
C2R115A/8
LIN
BN-YE
1
C2R115A/5
IGNITION
BK
901
C2R115A/6
GND_RTN
G2D115/1
SA004/6
YR
1
SW002/6
B
1
SW003/6
LIN
SA004/3
YU
1
SW002/3
B
1
SW003/3
IGNITION_IN
SA004/4
B
1
SW002/4
B
1
SW003/4
GND
Switch-remote-ice
LIN
IGNITION_IN
CRUISE_SIG
GND
CRUISE_SW_GND
SW004/2
B
1
SW009/2
SW004/3
B
1
SW009/3
Cruise controls-Remote
CRUISE_SIGNAL
RTN
Switch-brake pedal
FOOTBRAKE SWITCH
IN
OUT
C2CA29/1
C2CA29/4
CRUISE DEACTIVATION SWITCH
IN_2
DEACT
C2CA29/3
C2CA29/2
BK
1
DR_B
BK
1
DR_D
G1D120/1
G1D123/1
Engine control-Module (ecm)
IP
IGN_SENSE
GN-VT
1
EN_KN
C1E104C/19
C
HS_CAN_POS
C
HS_CAN_NEG
HS CAN BUS
Junction-box engine
F42
10A/20A/30A MINI
EMS_SUPPLY_2
C1BB01B/63
GN
1
EN_KN
SPL893
GN
1
EN_KN
C1E104C/2
B+
SUPPLY_1
EMS_FUSES
C1BB01B/62
GY
0
EN_RX:EN_RY:EN_SU:EN_KN
SPL862
GN
1
EN_KN
C1E104C/5
B+
SUPPLY_2
HIGH CURRENT PETROL/DIESEL EMS RELAY
RLY16
EMS_FUSE_SUPPLY
C1BB01B/P5
GY
0
EN_RX:EN_RY:EN_SU:EN_KN
EMS_RLY_CTRL
C1BB01B/P2
GY-VT
1
EN_KN
C1E104C/28
OP
EMS_RLY_CTRL
EMS_RLY_COIL
C1BB01B/P1
RD
0
EMS_RLY_SUPPLY
C1BB01B/P3
RD
0
SPL792
B+
F9
50A A1
EMS_POWER_FUSE
C1BB01B/13
RD
0
IP
BRAKE_SWITCH_2
C1E104C/39
VT-OG
1
EN_KN
IP
BRAKE_SWITCH_1
C1E104C/22
VT-BN
1
EN_KN
SPL786
VT-BN
1
P
POWER_GND_1
C1E104C/4
BK
1
EN_KN
P
POWER_GND_2
C1E104C/3
BK
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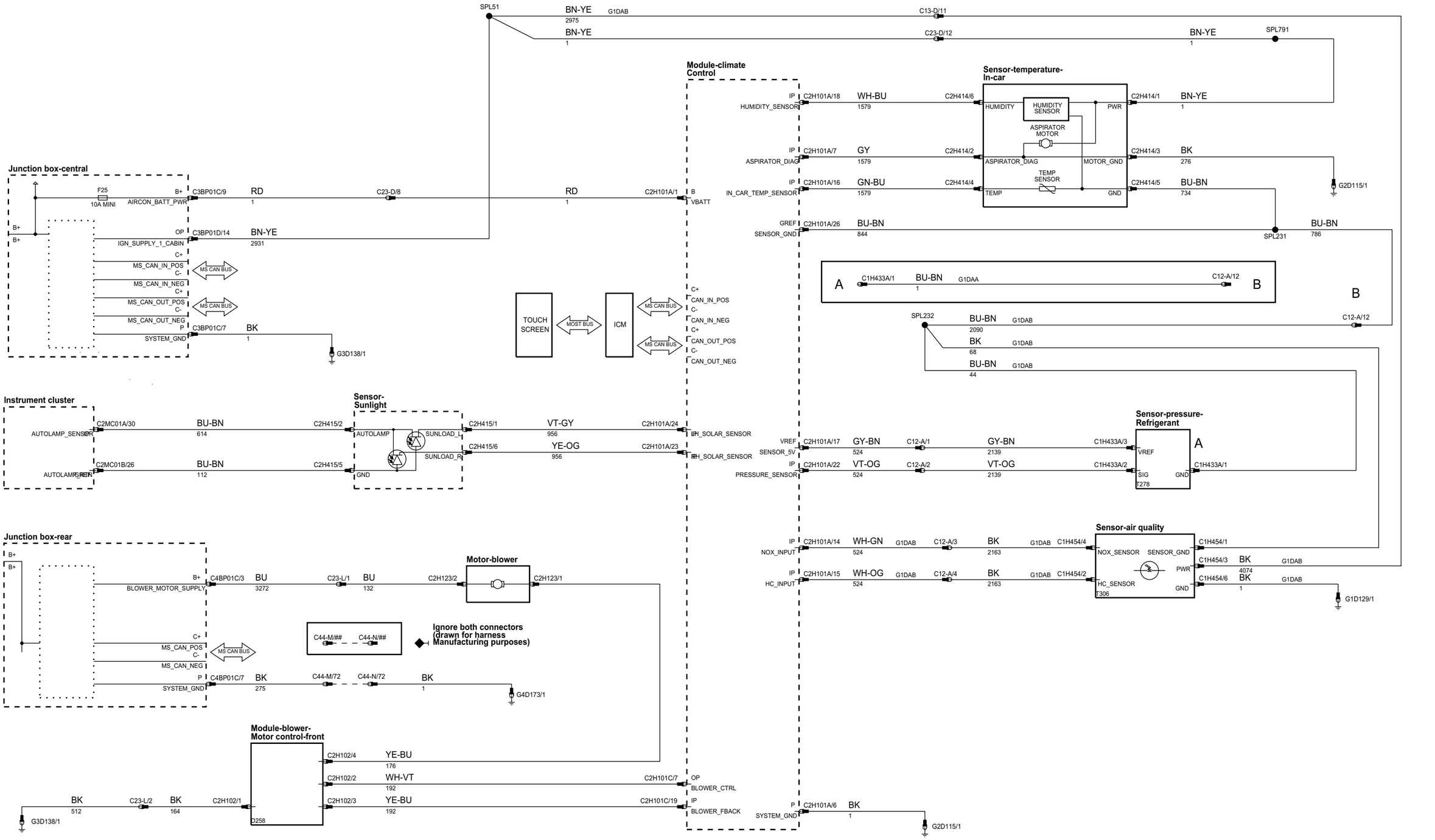

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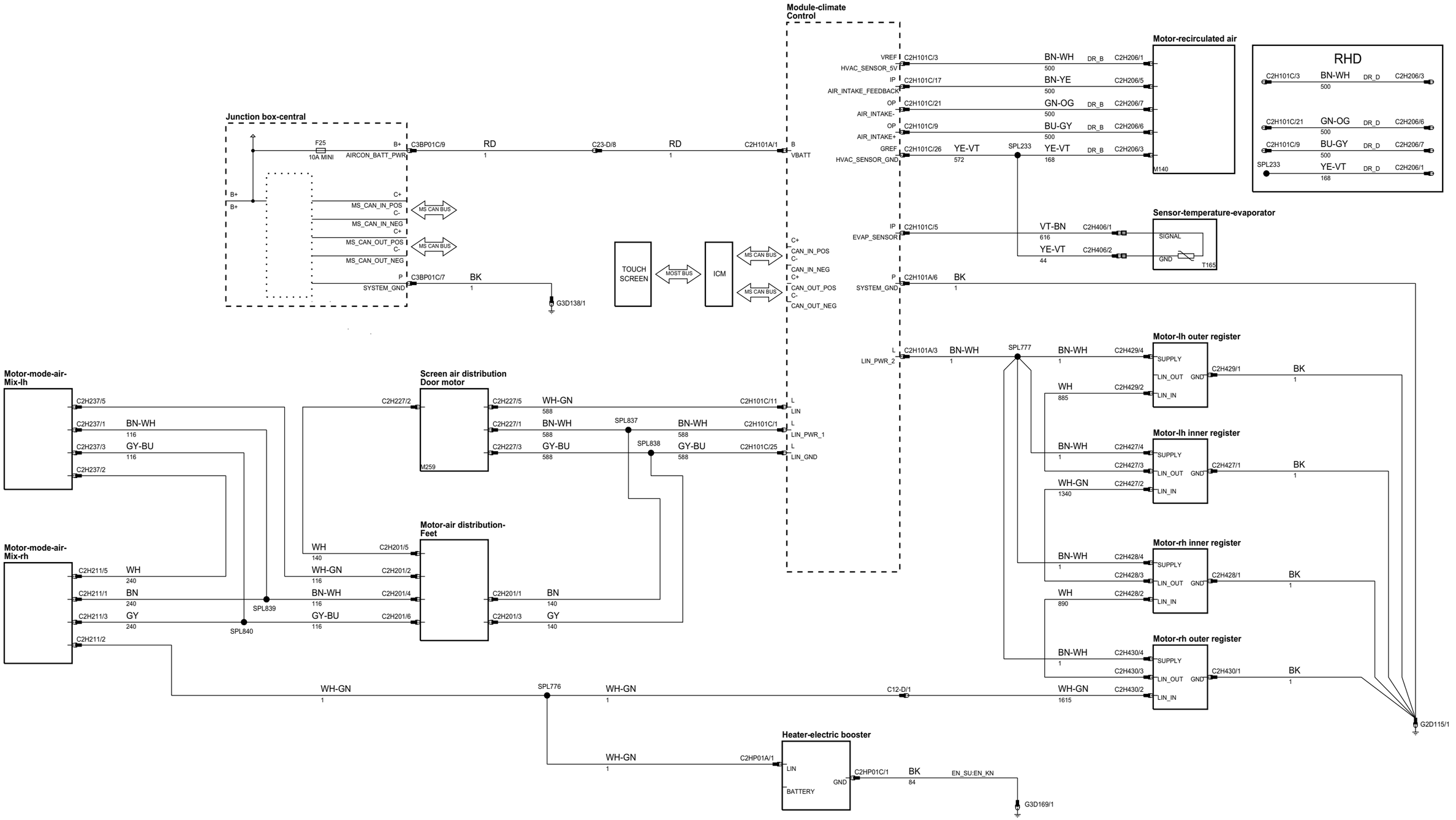

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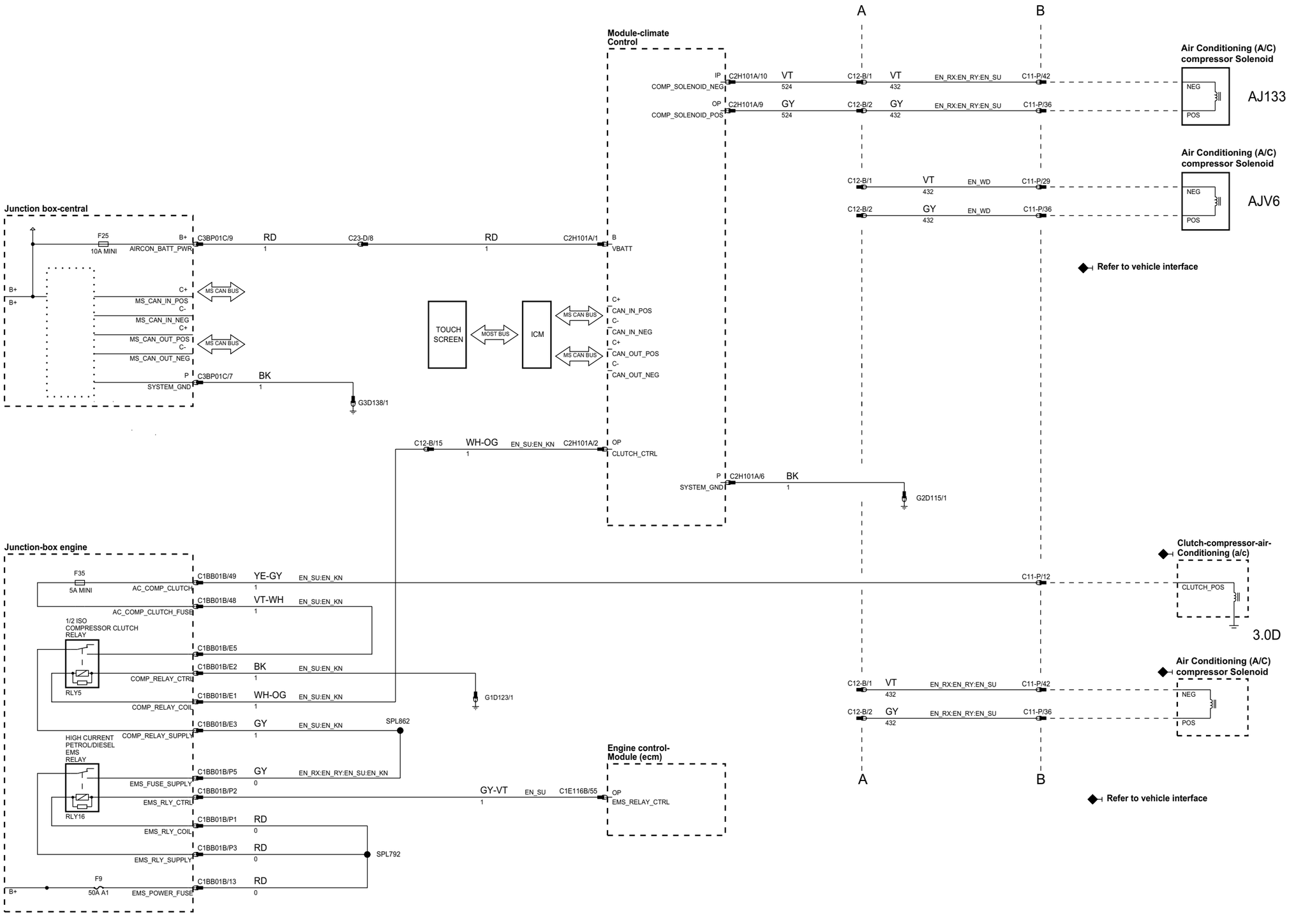

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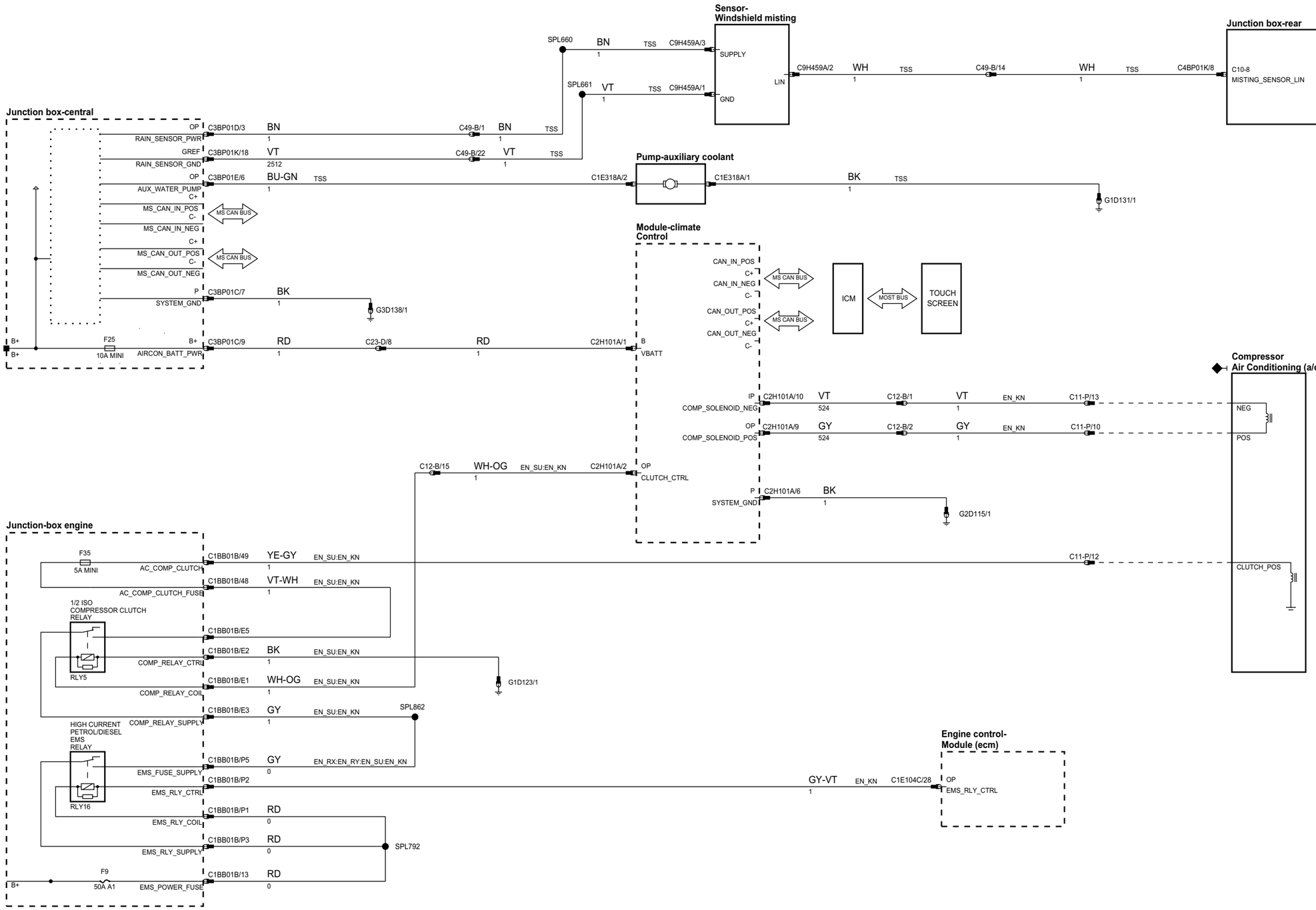

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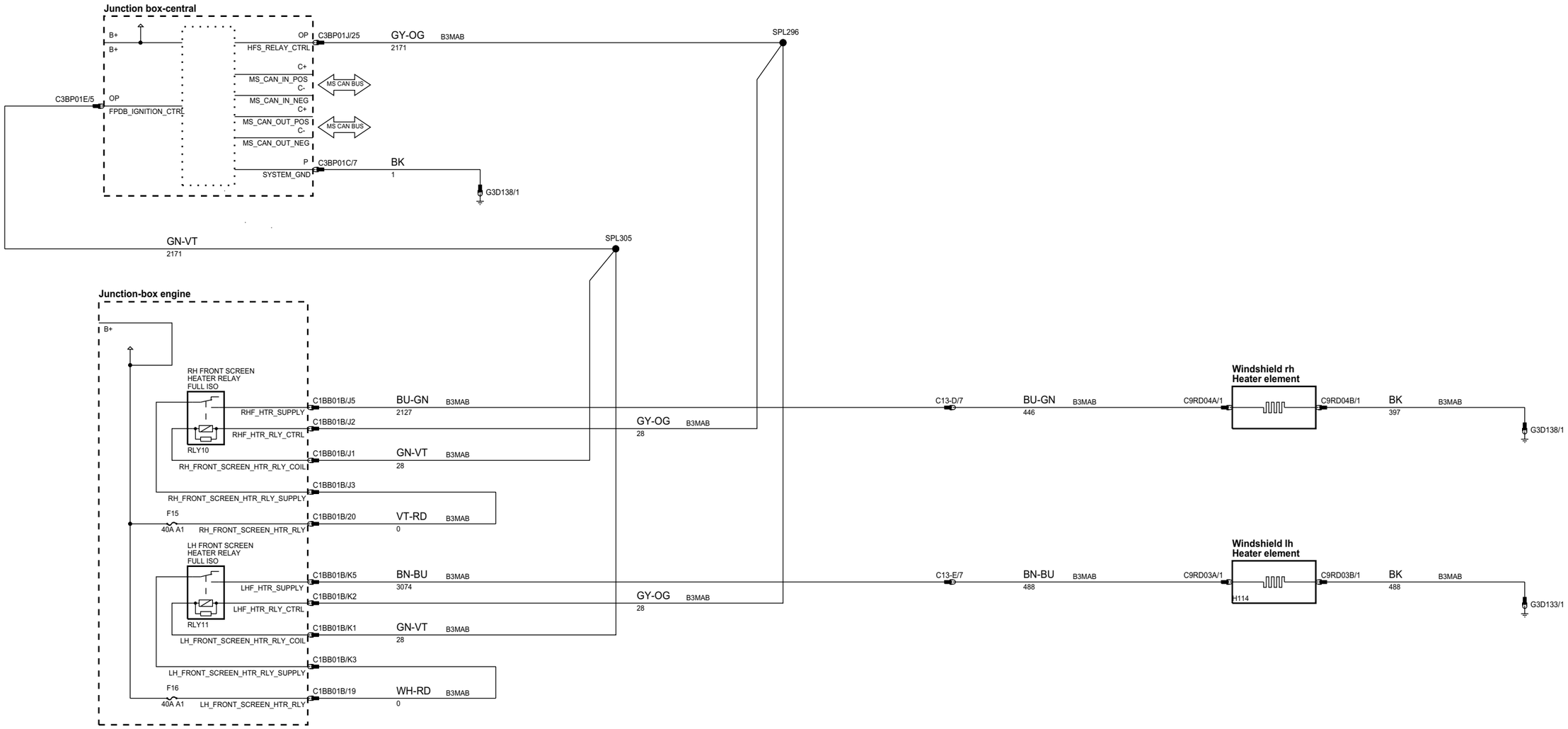

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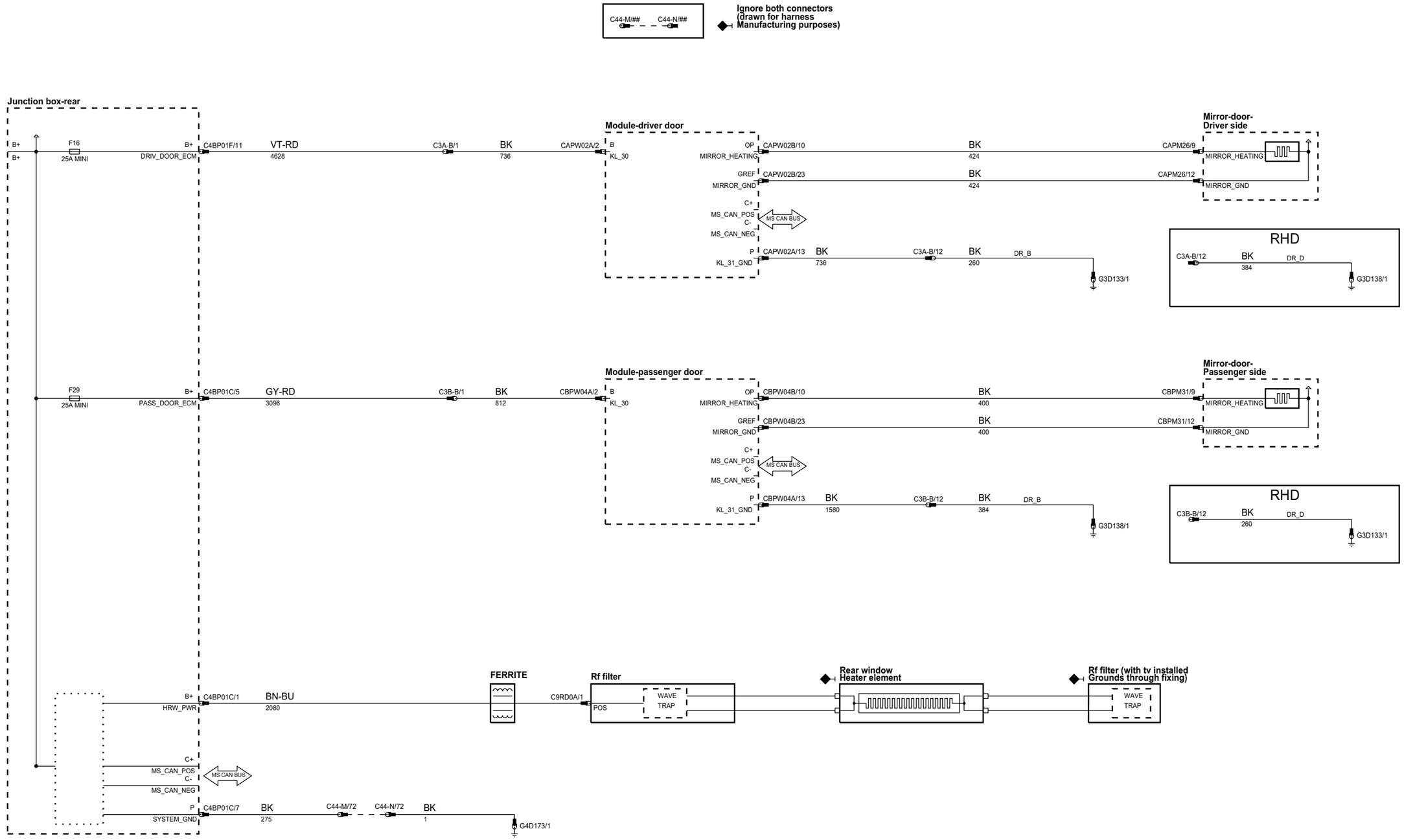

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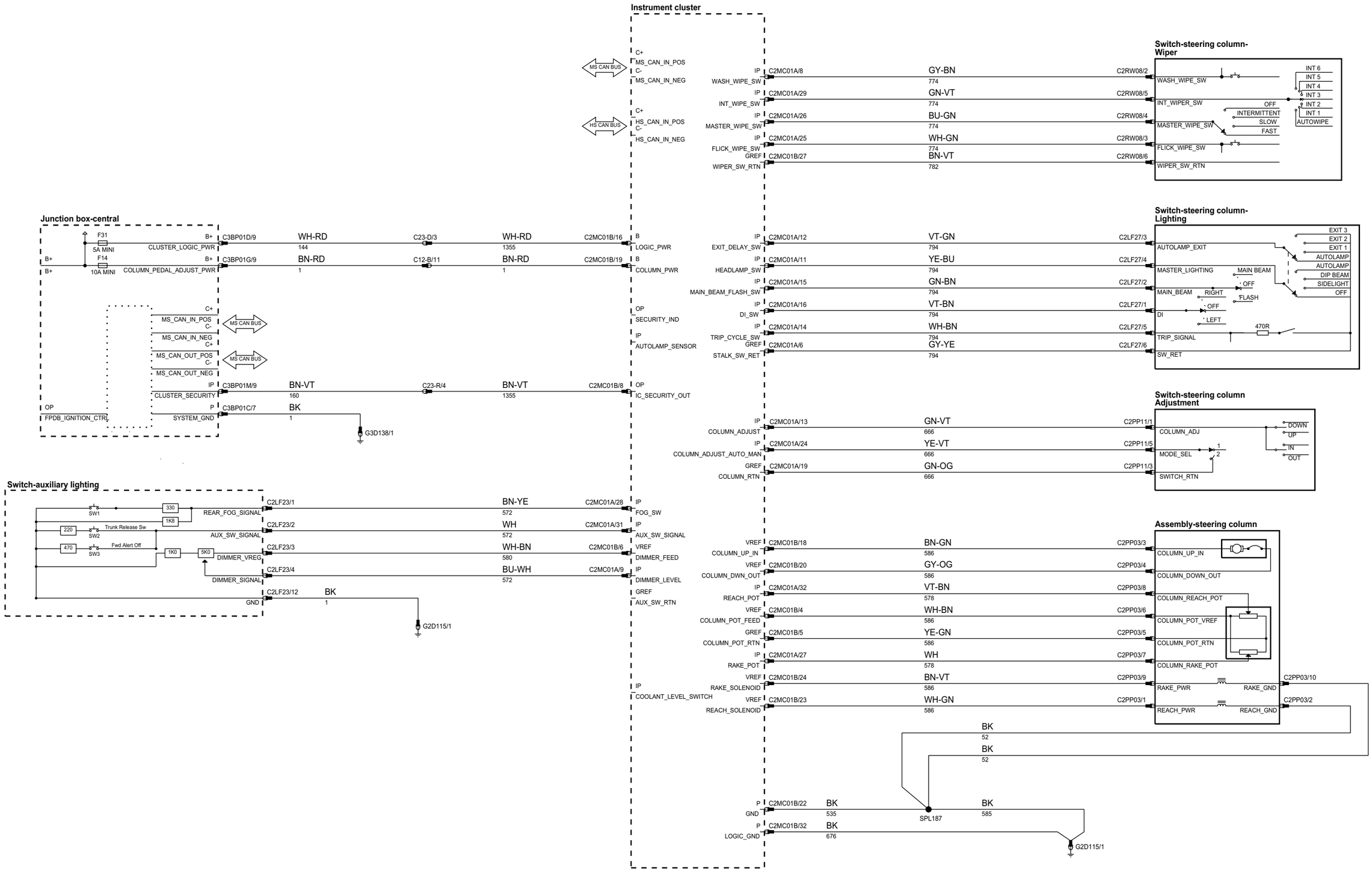

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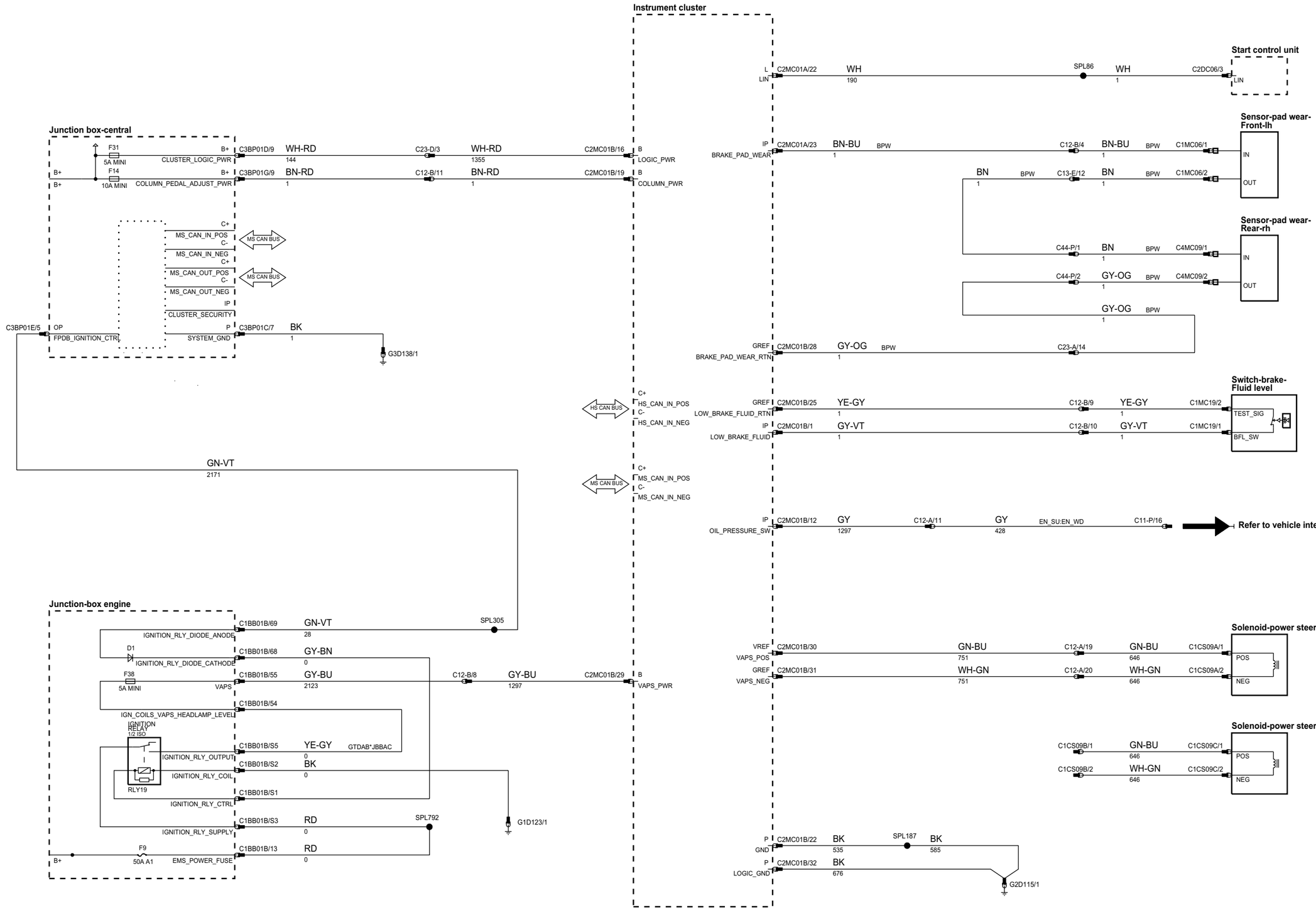

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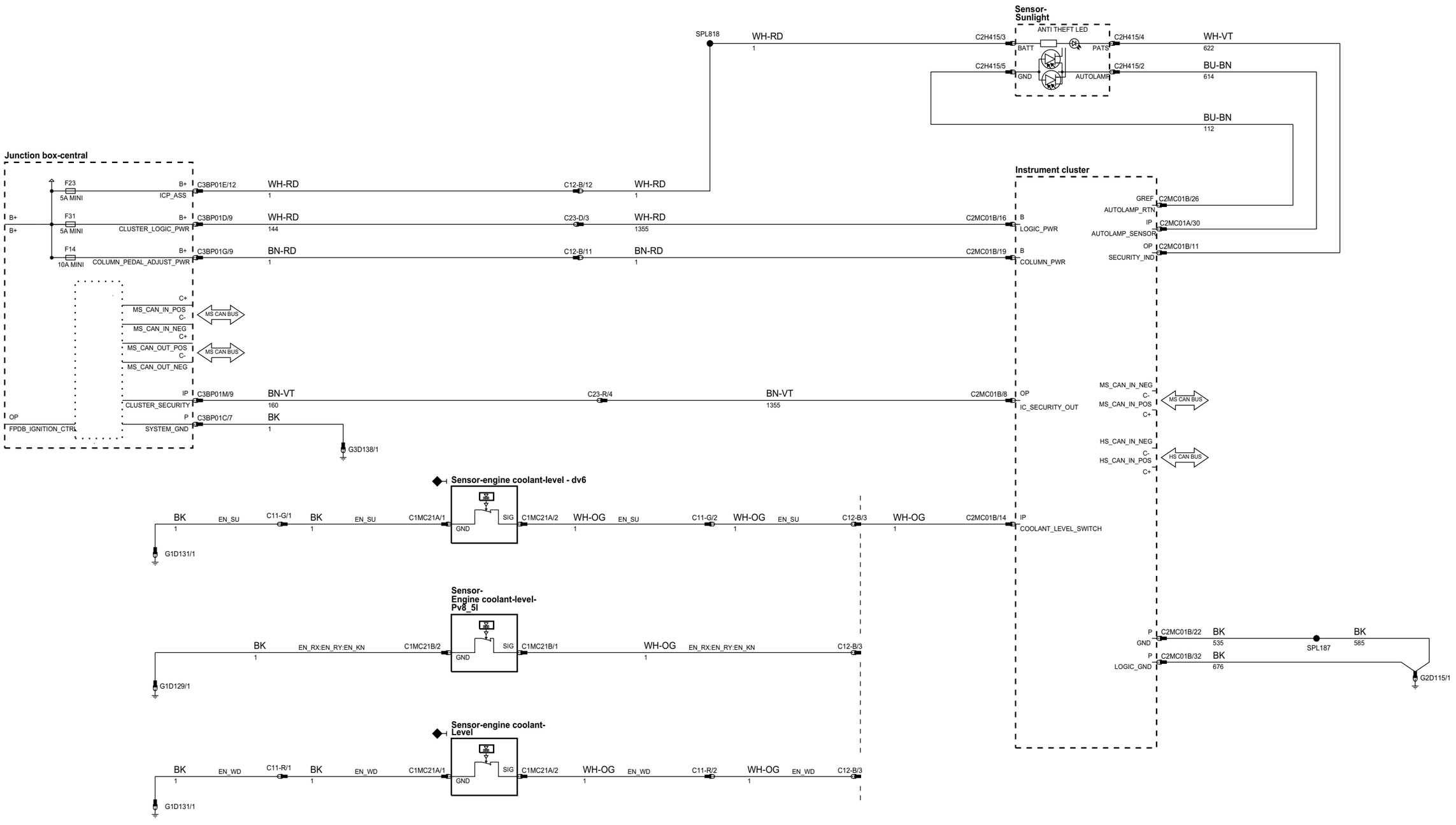

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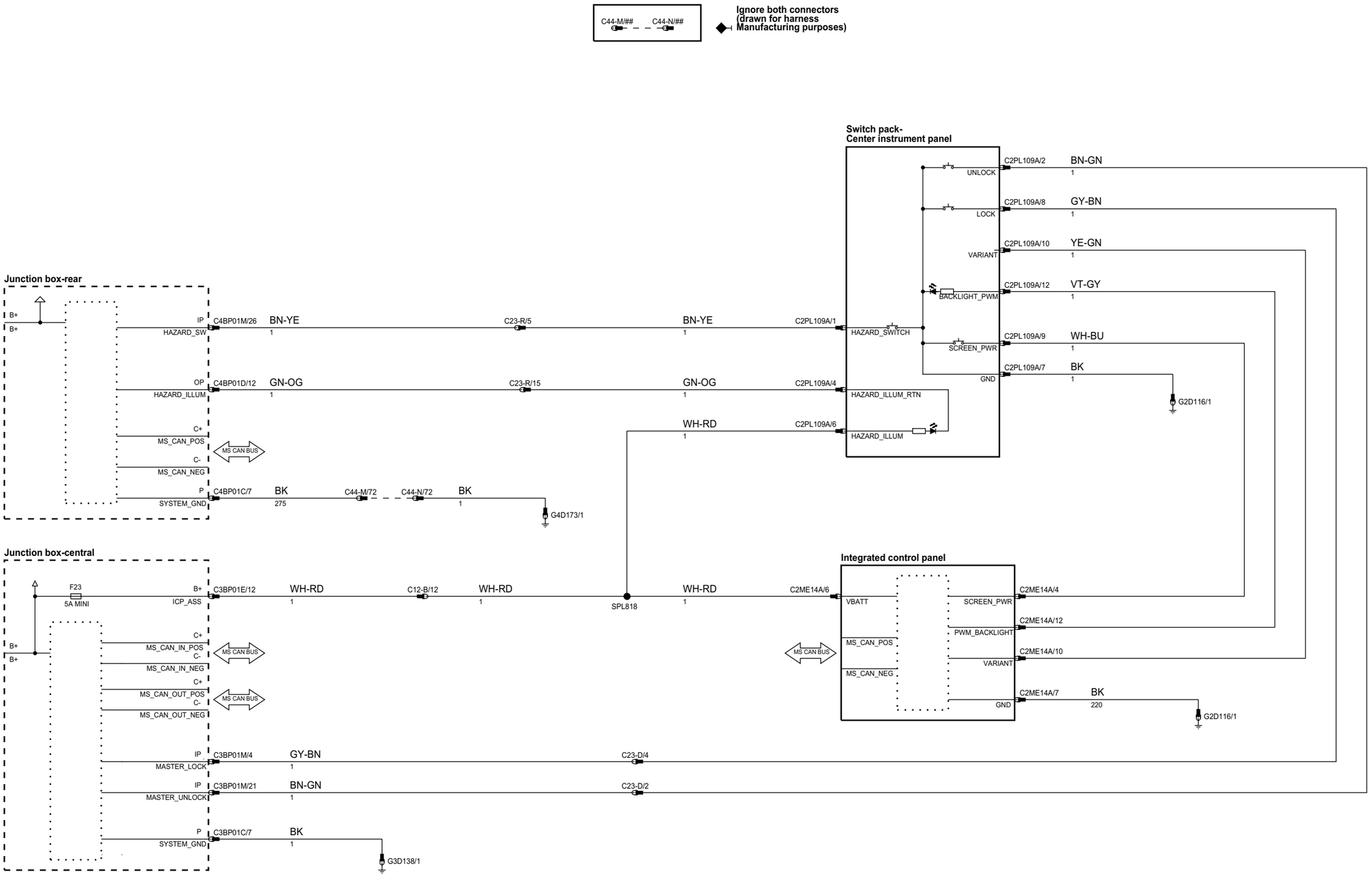

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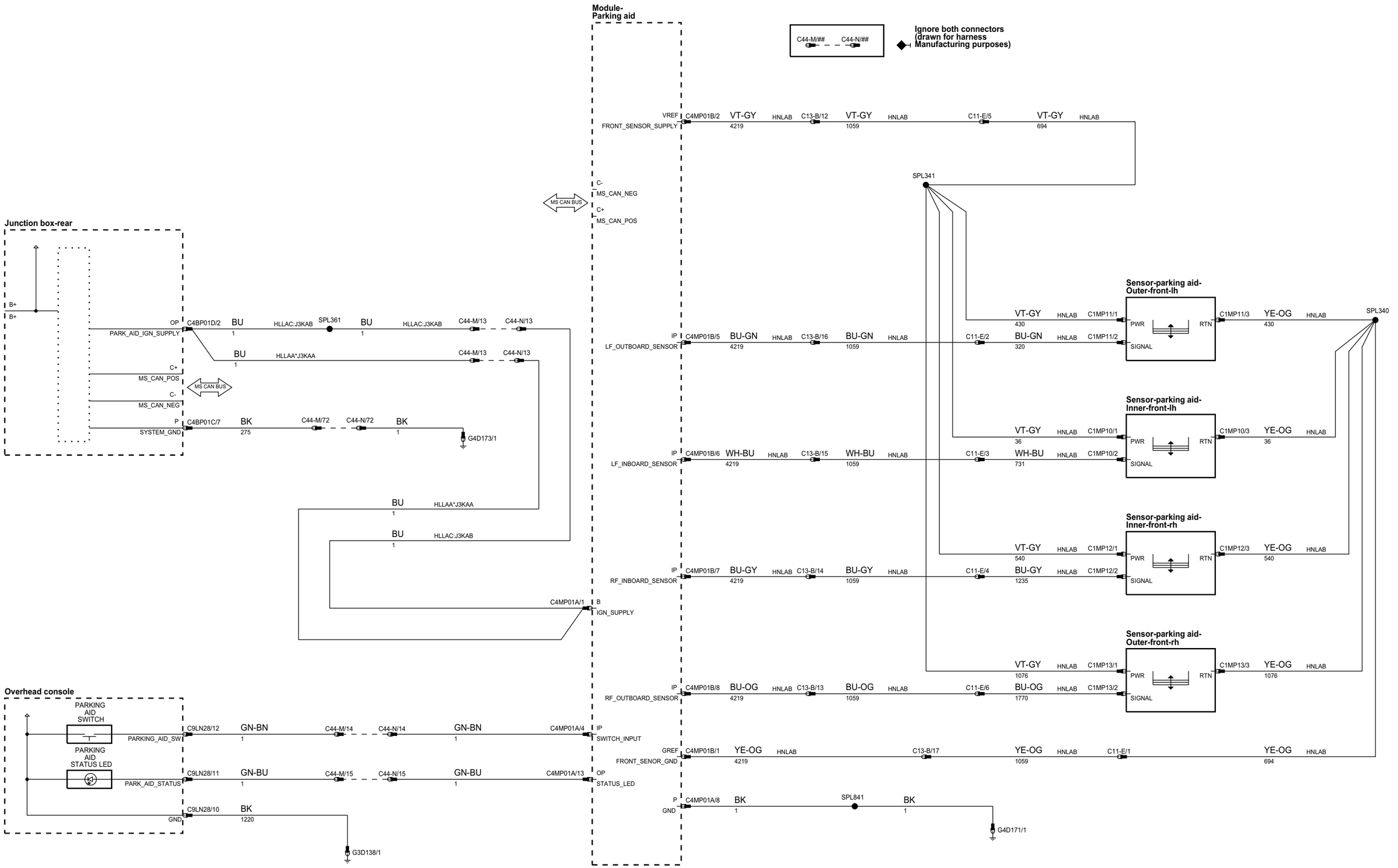

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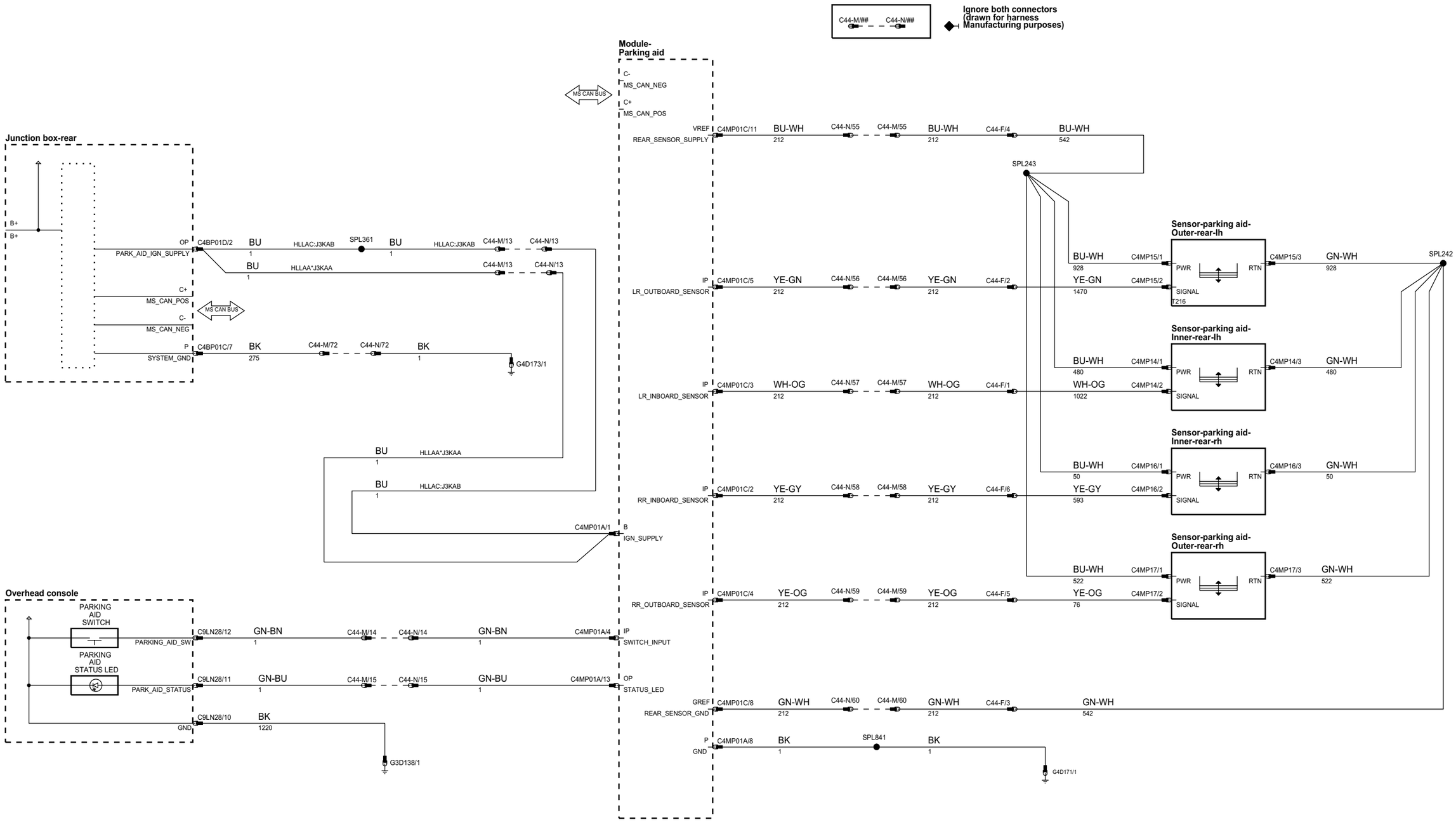

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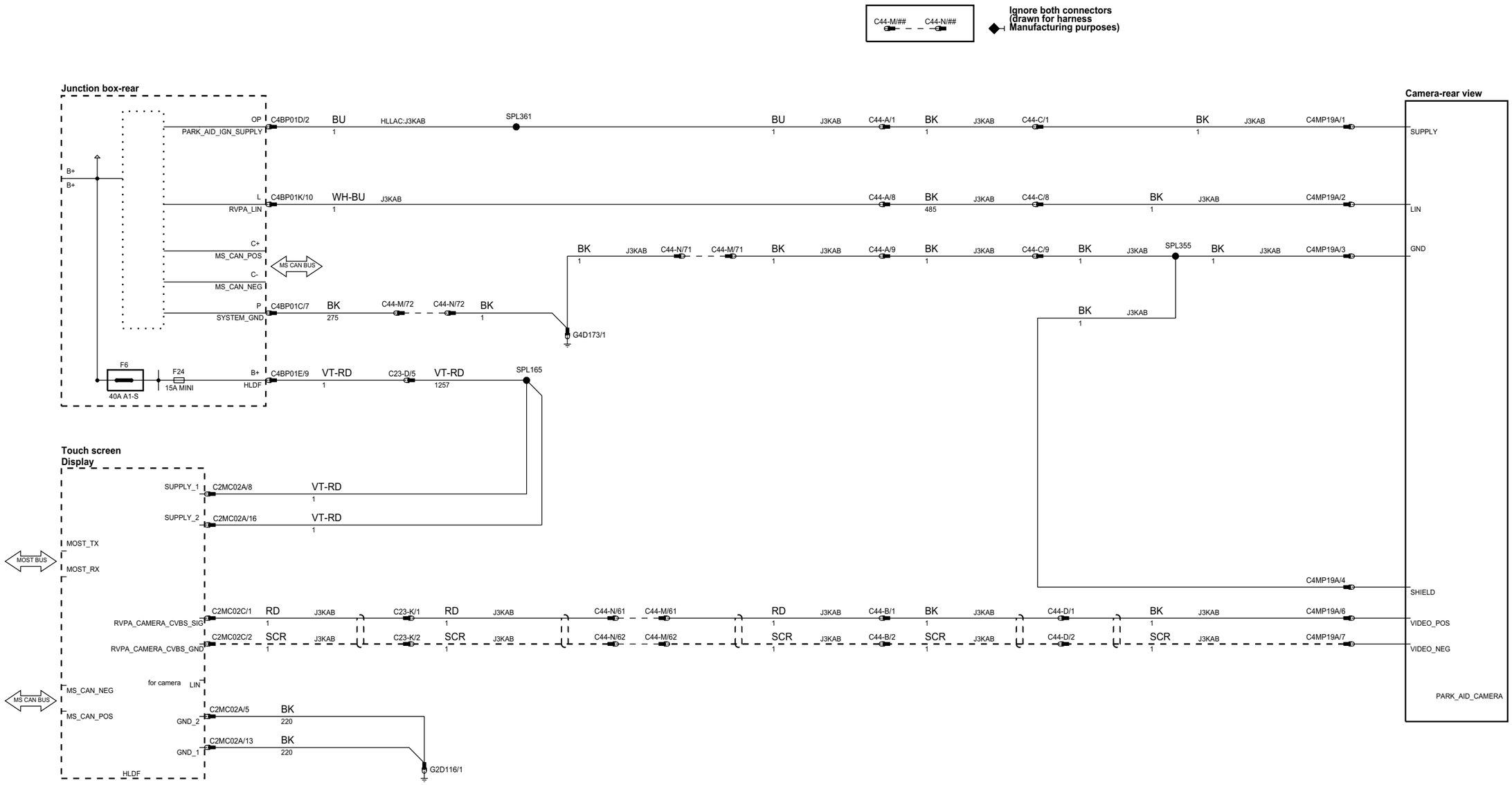

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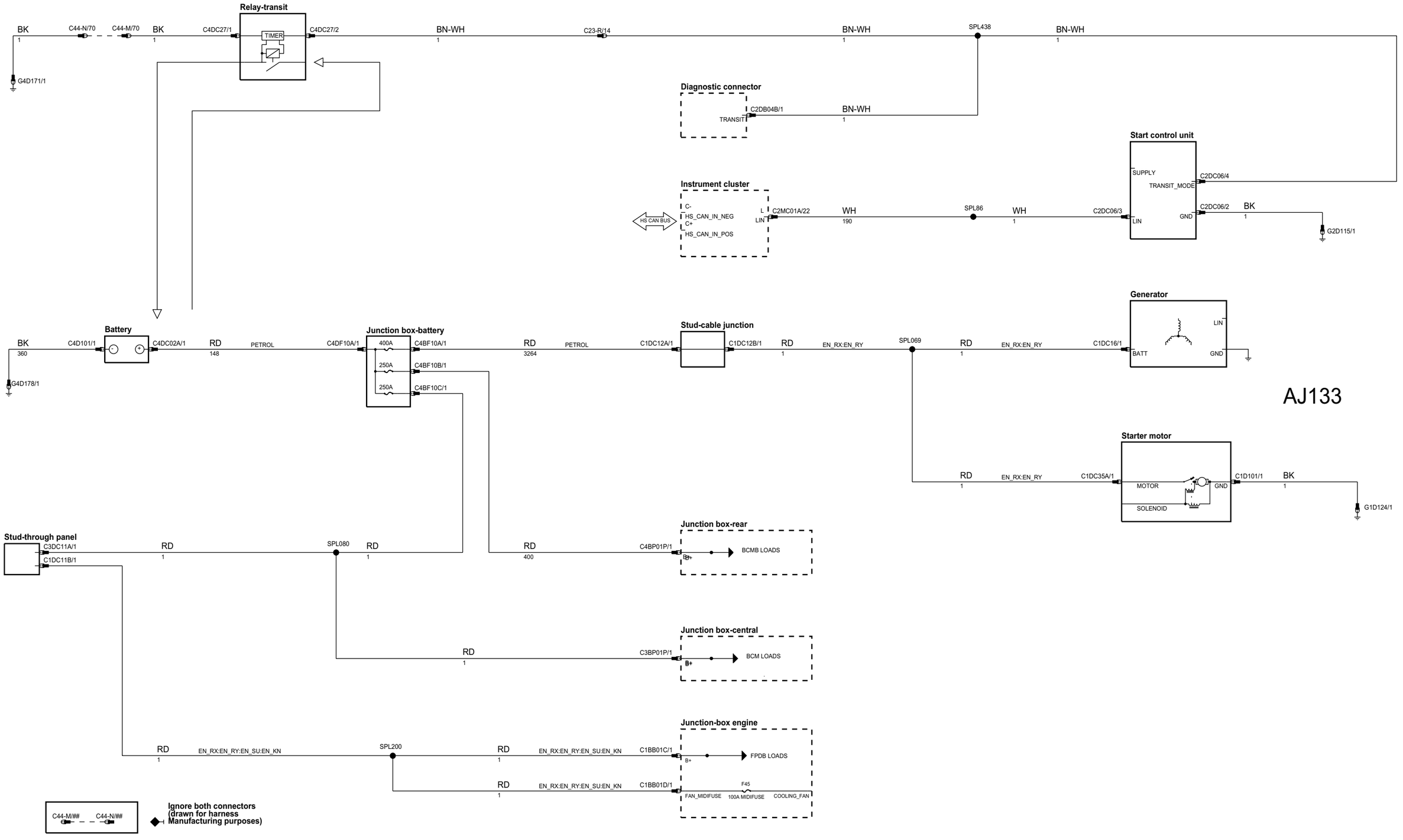

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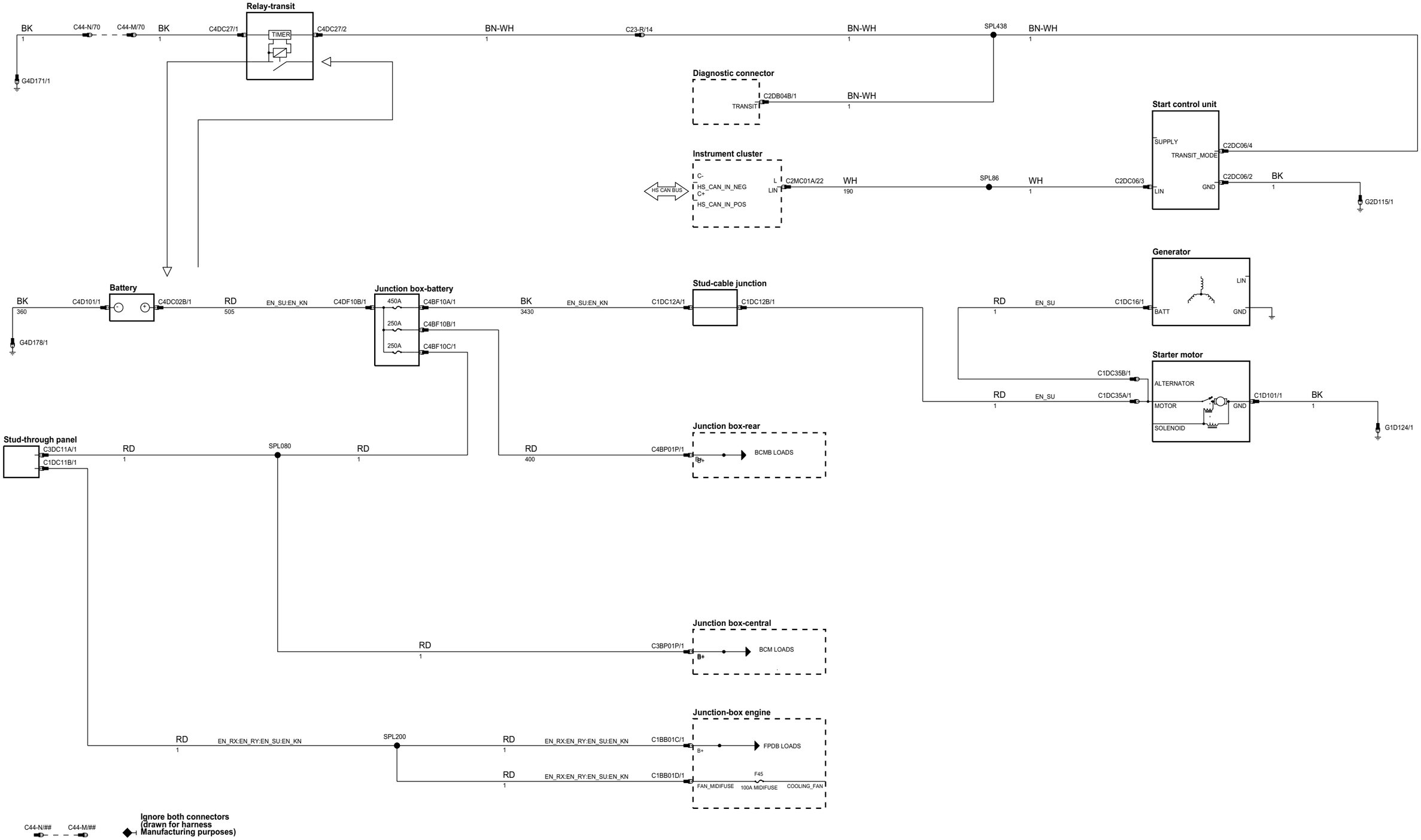

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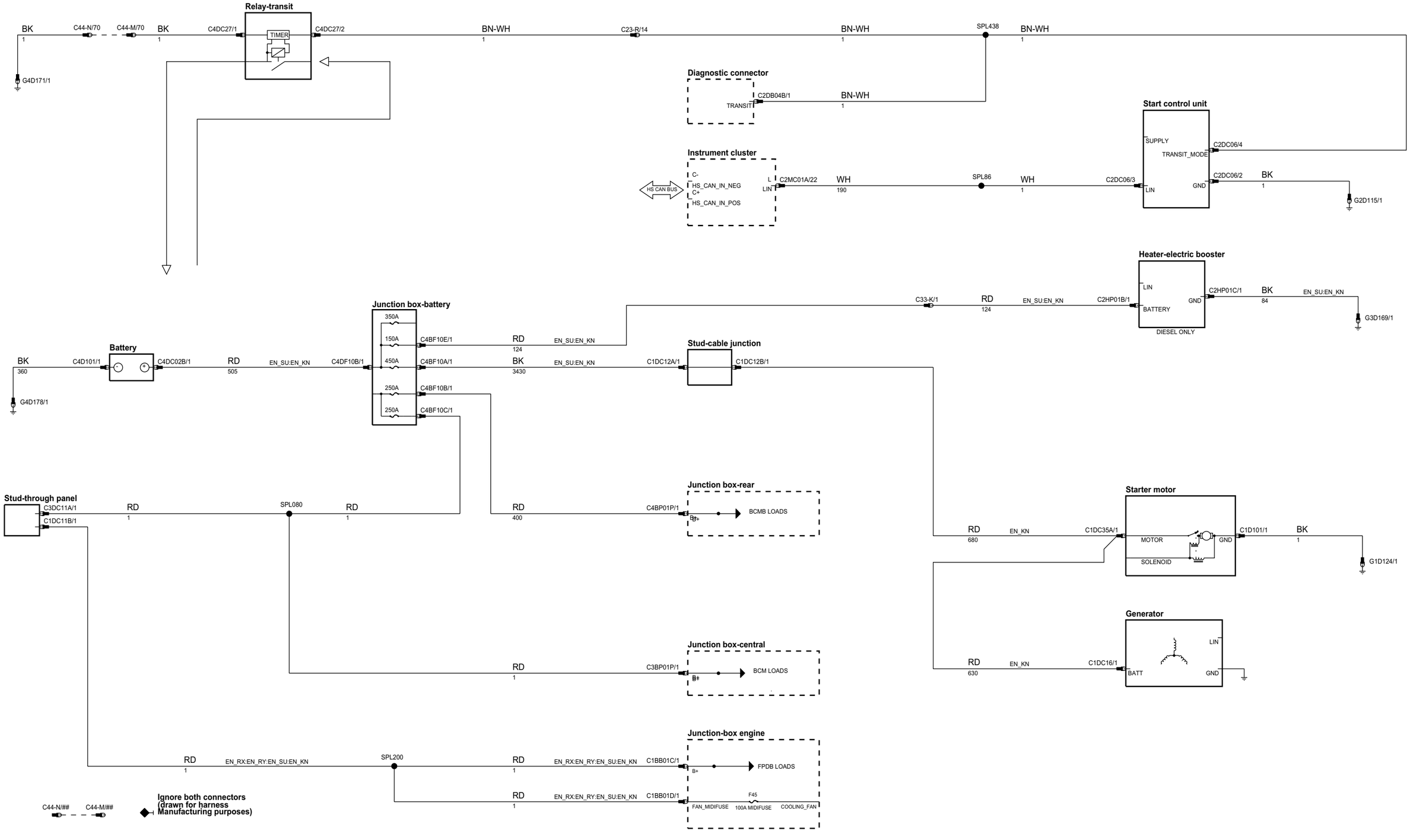

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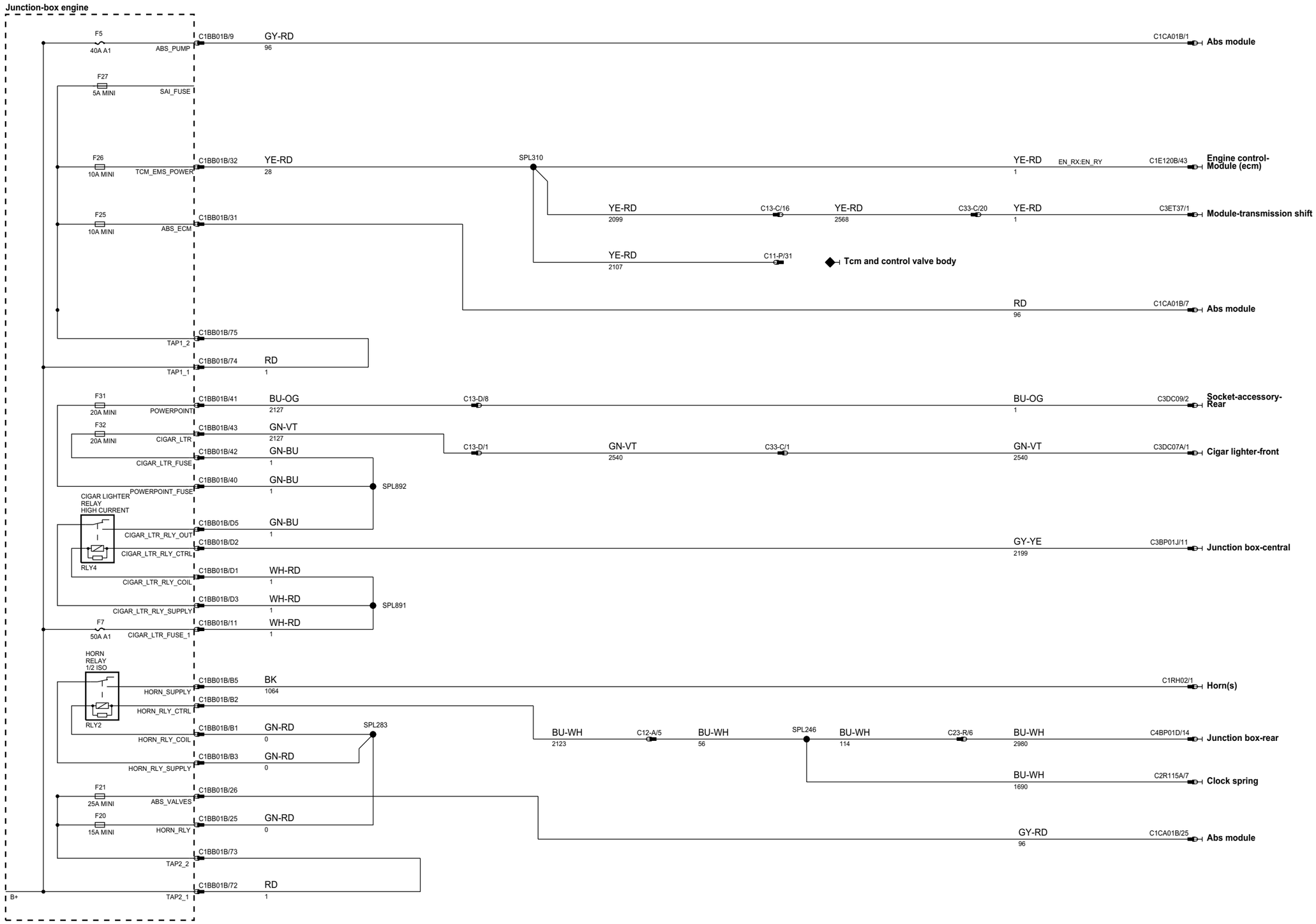

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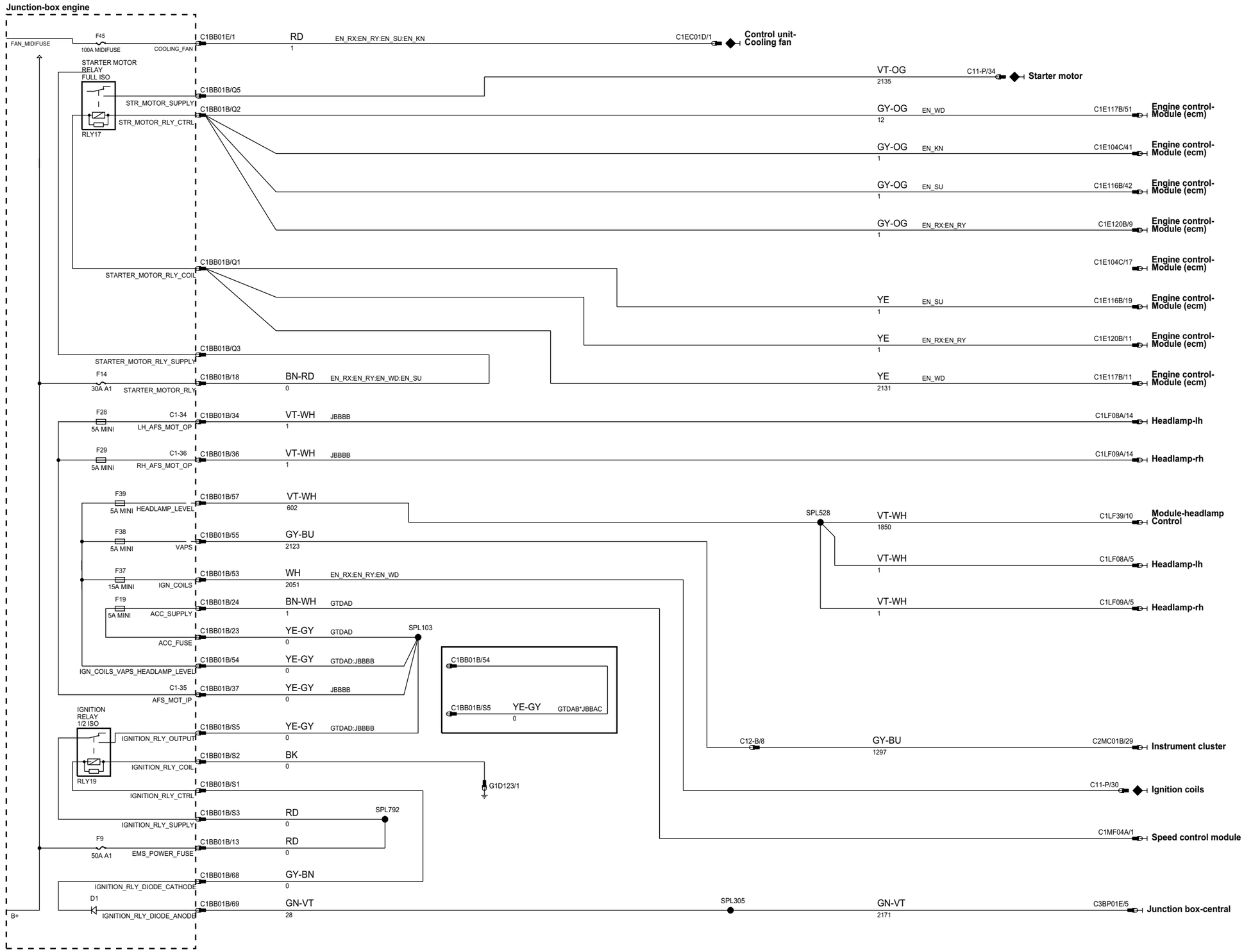

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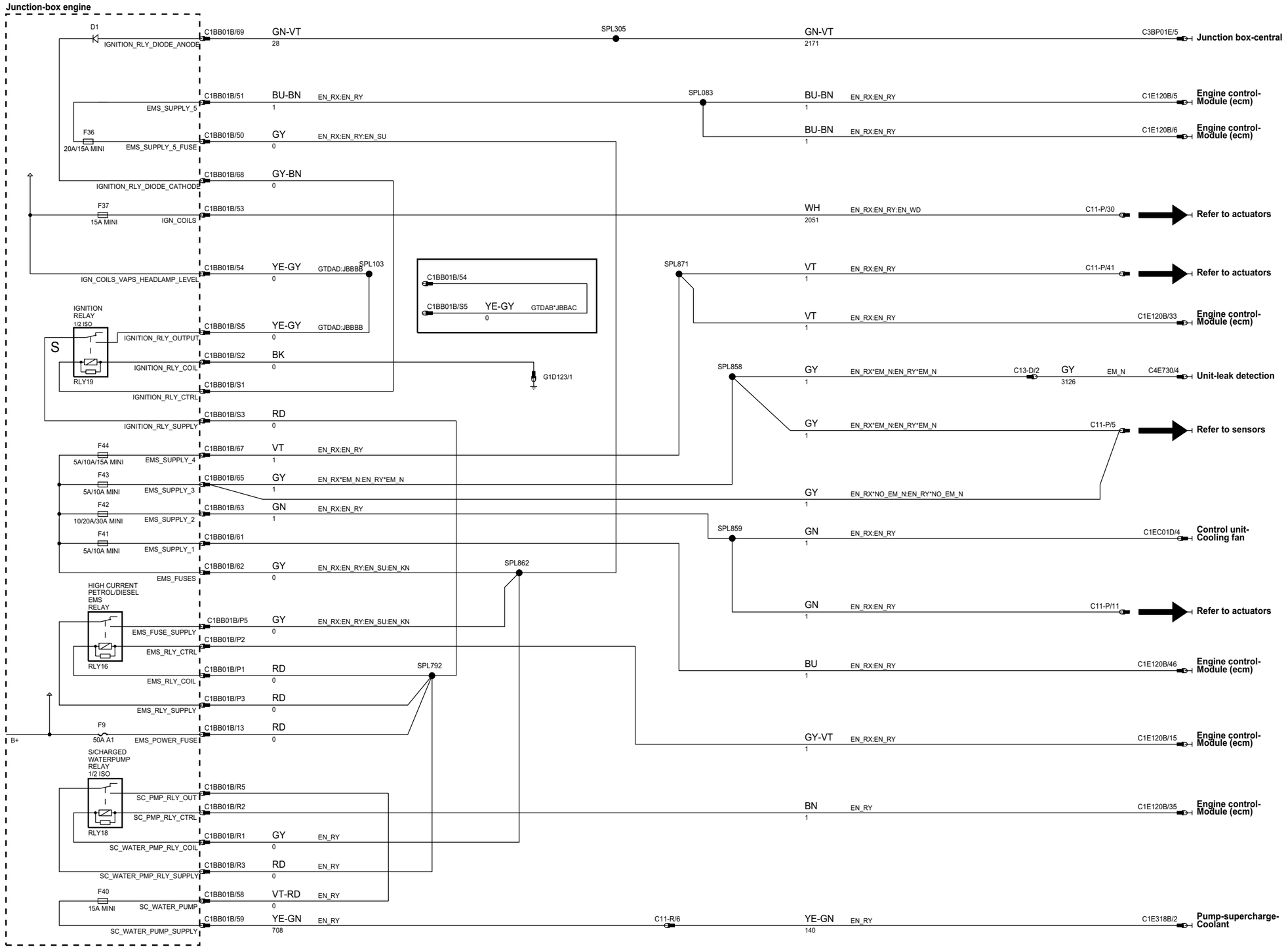

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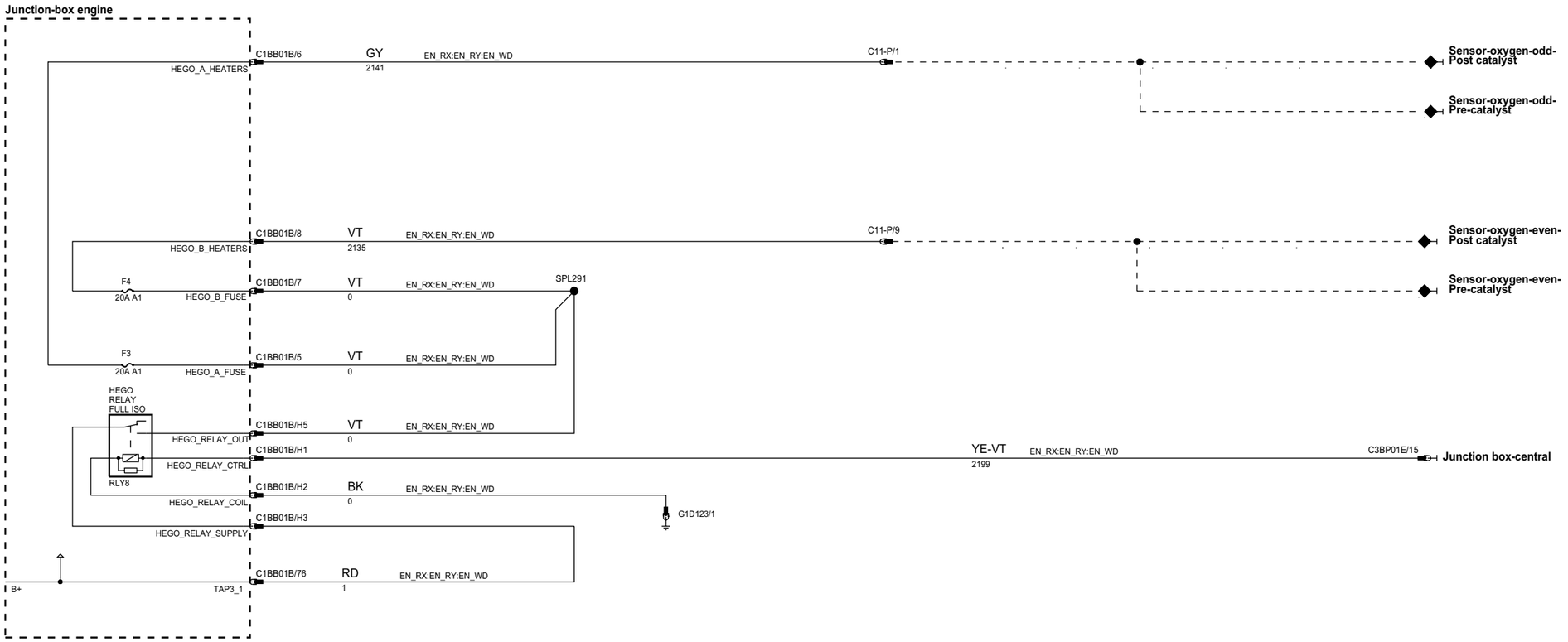

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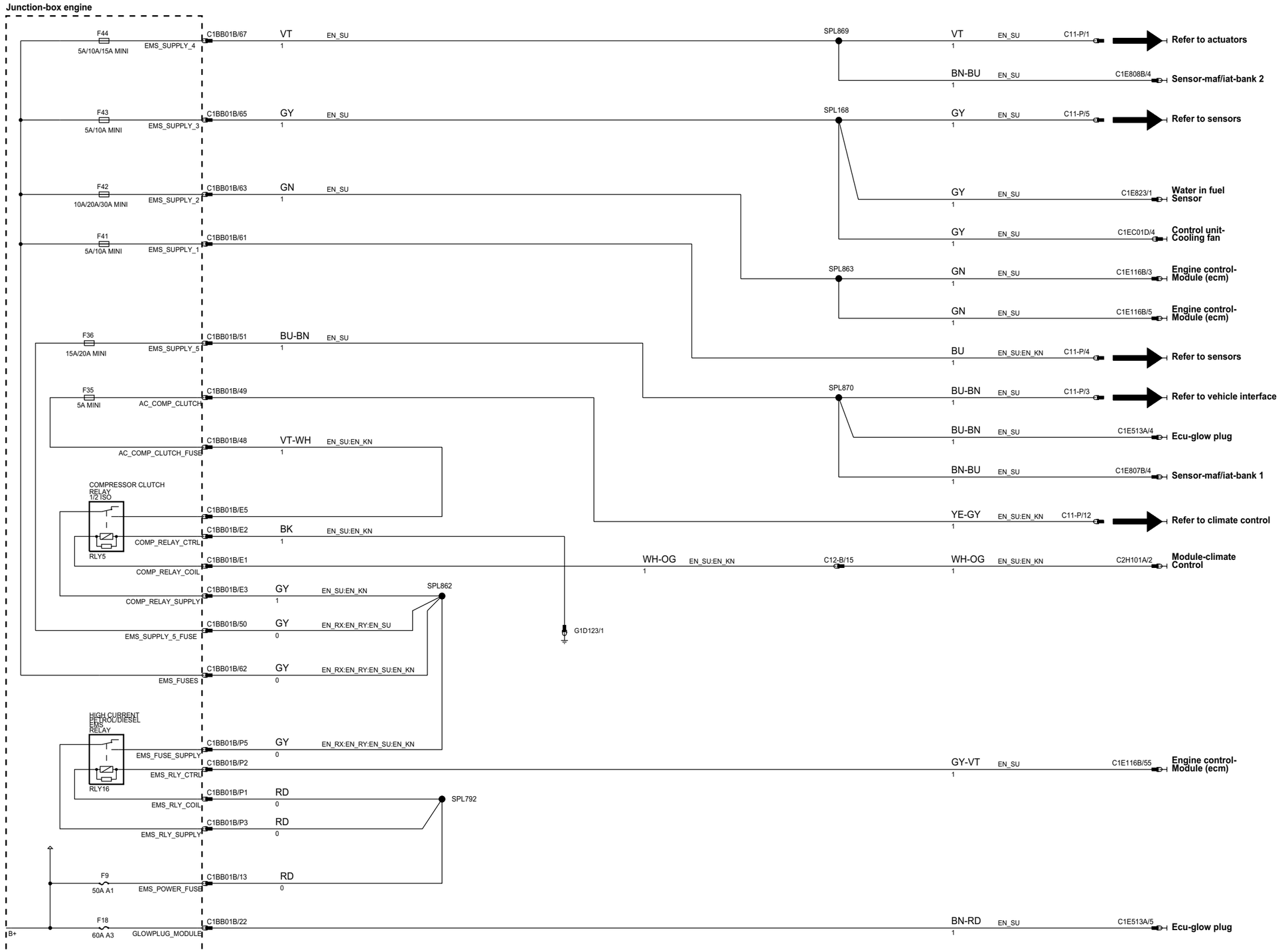

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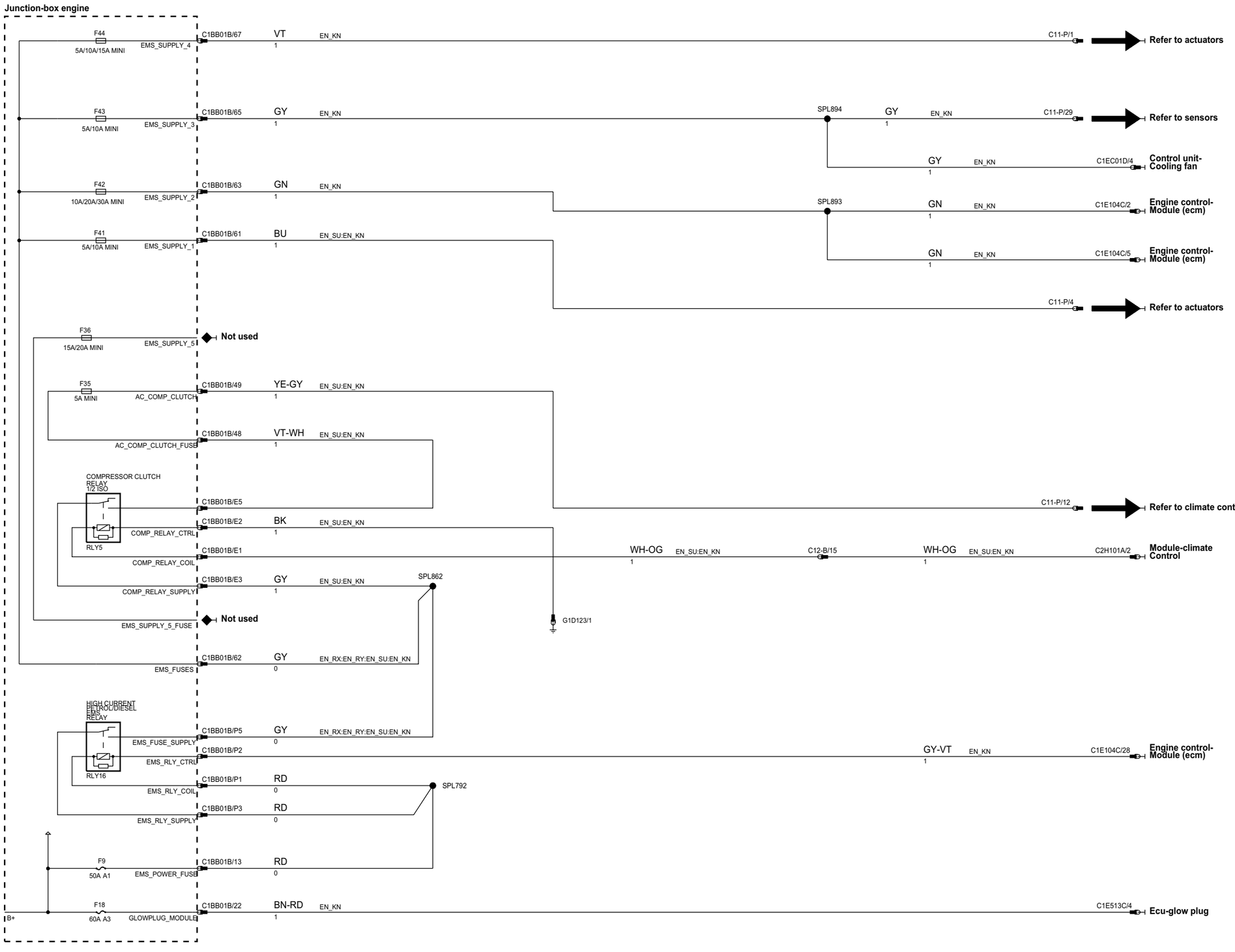

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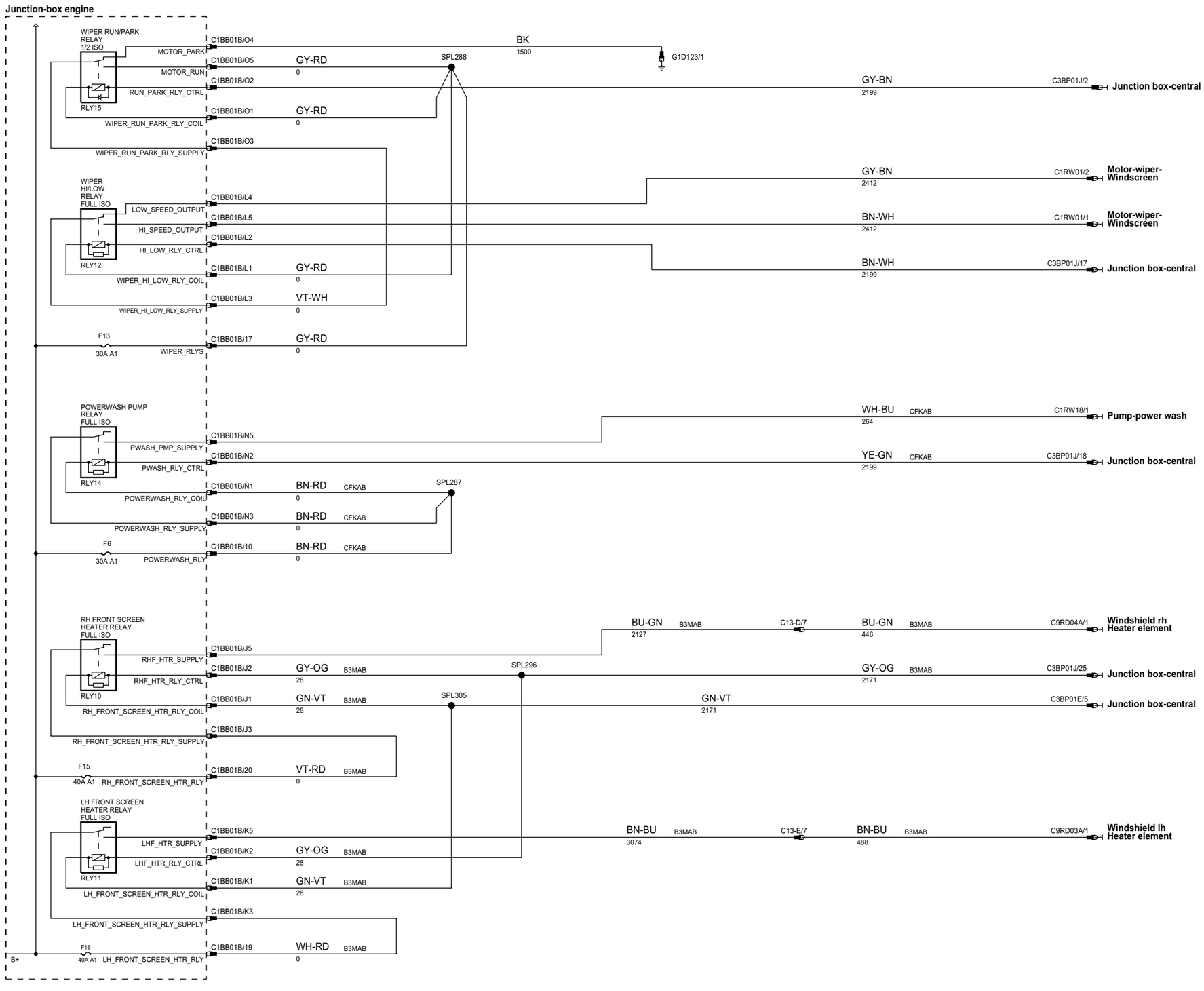

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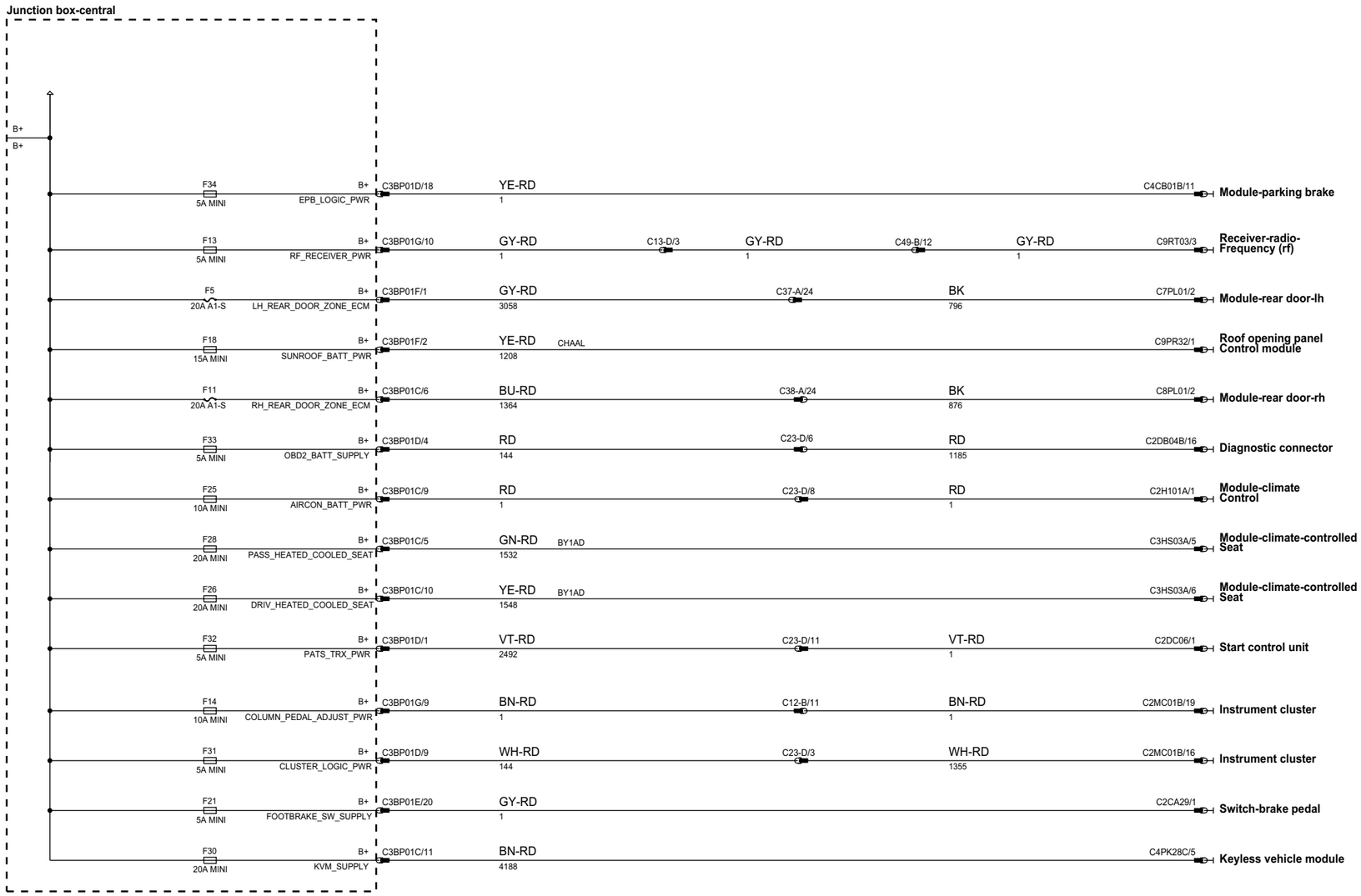

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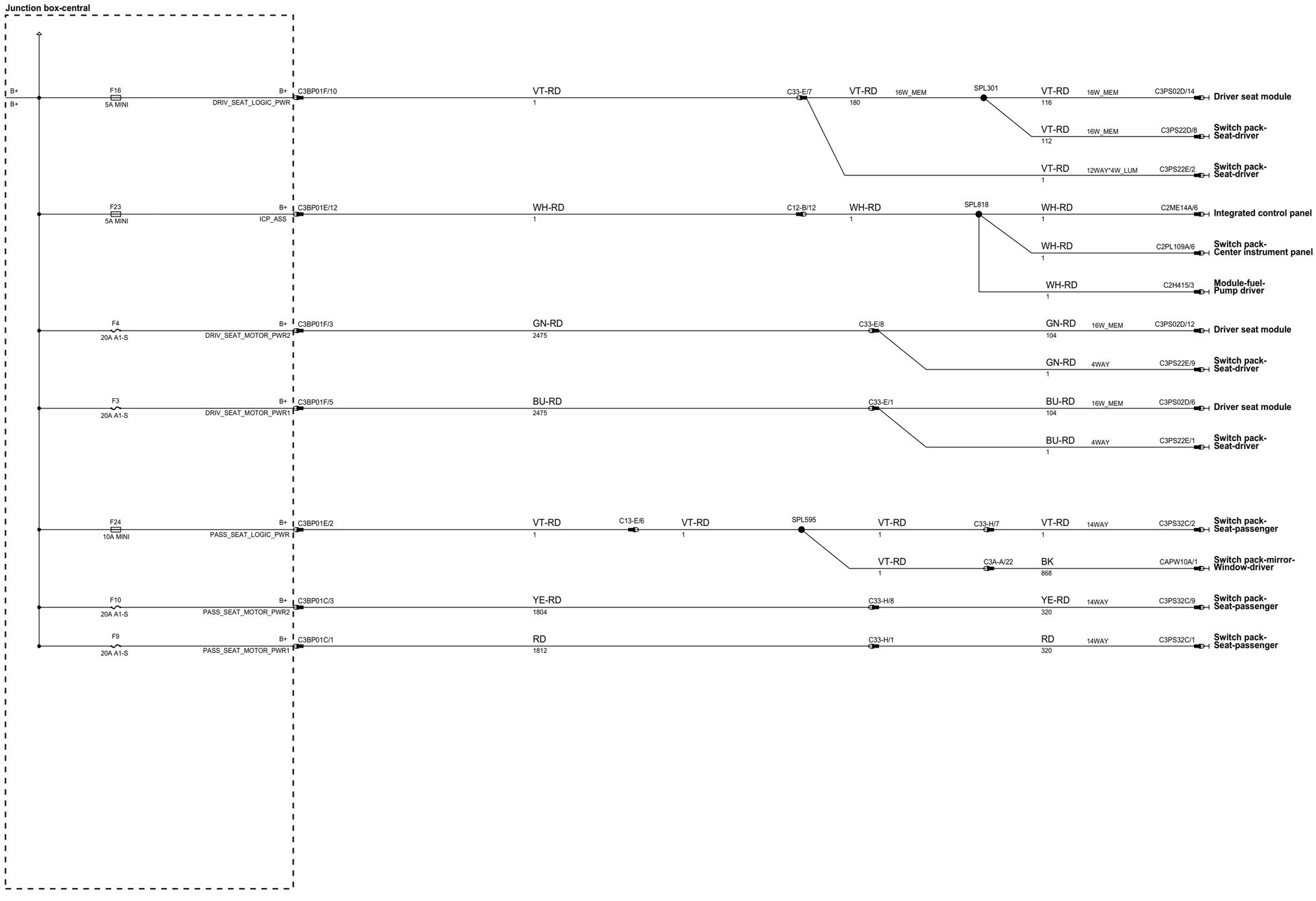

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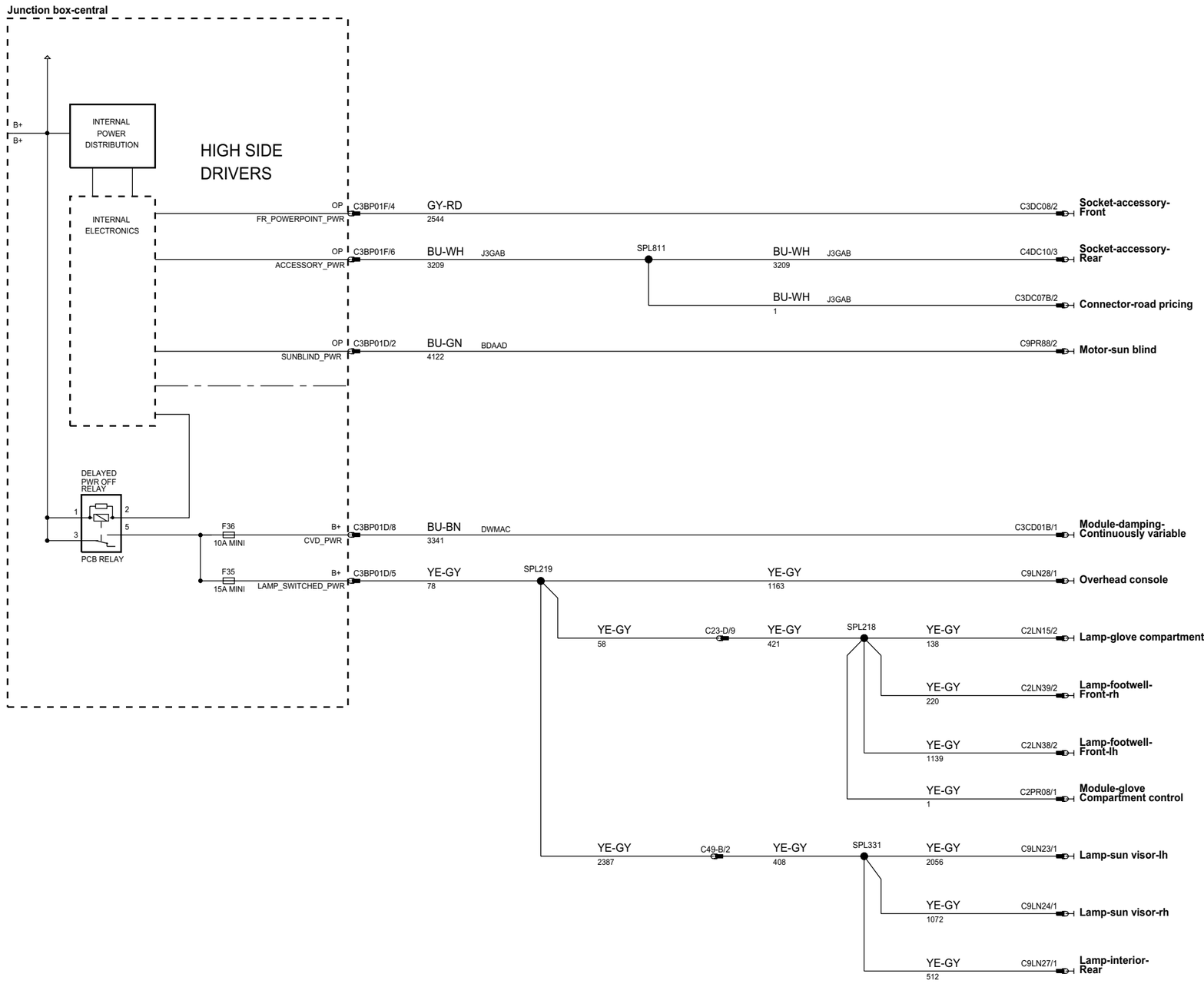

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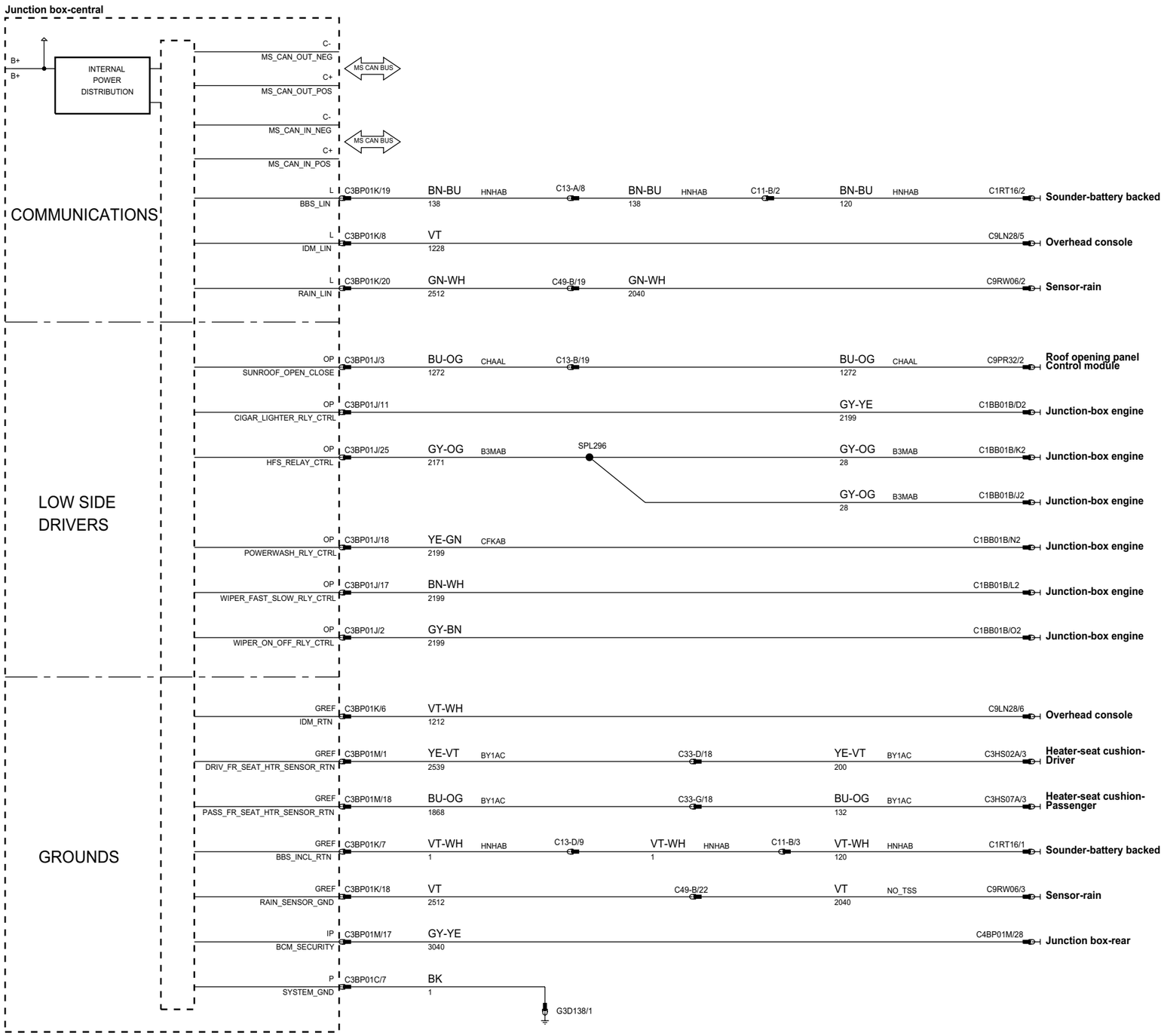

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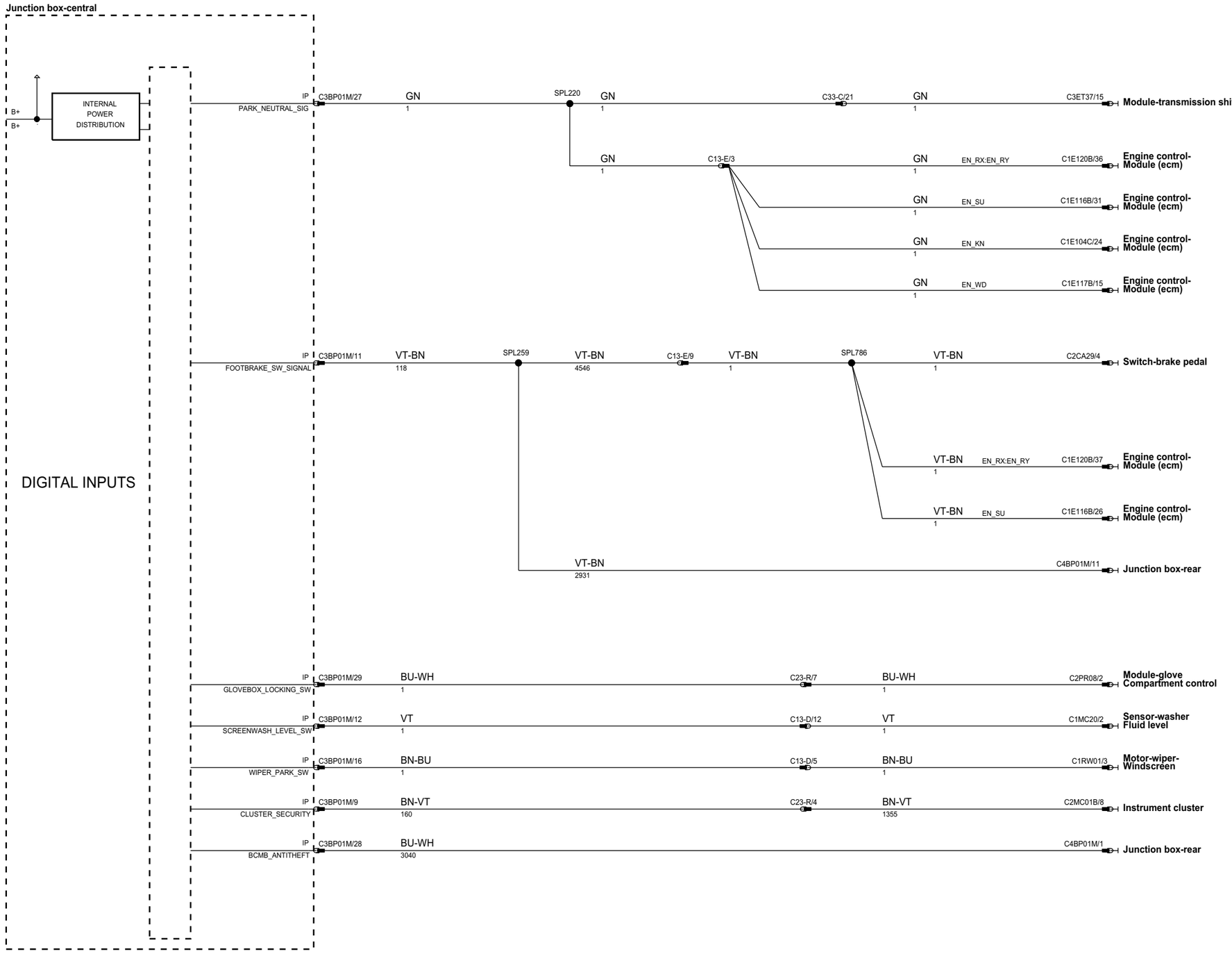

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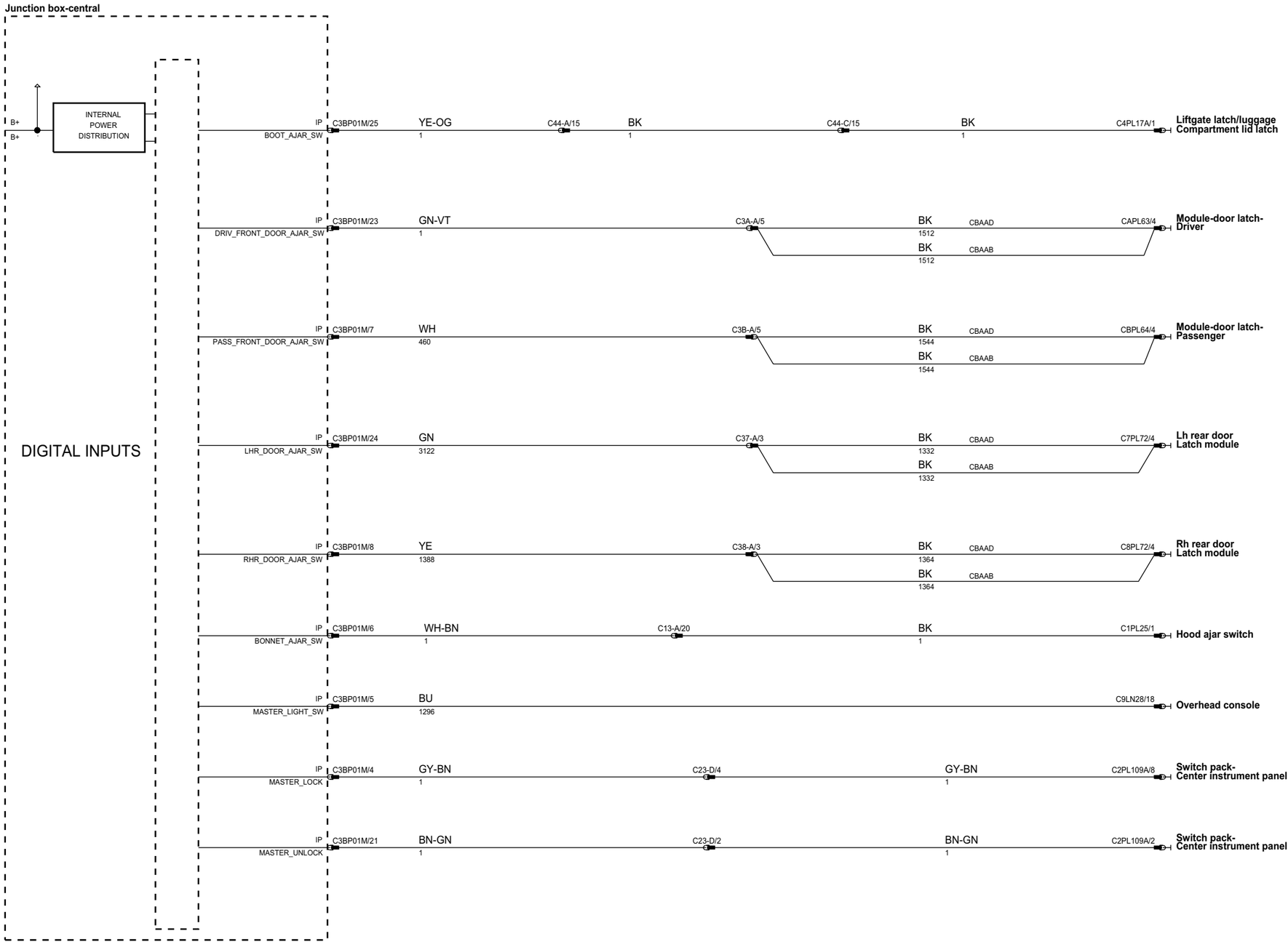

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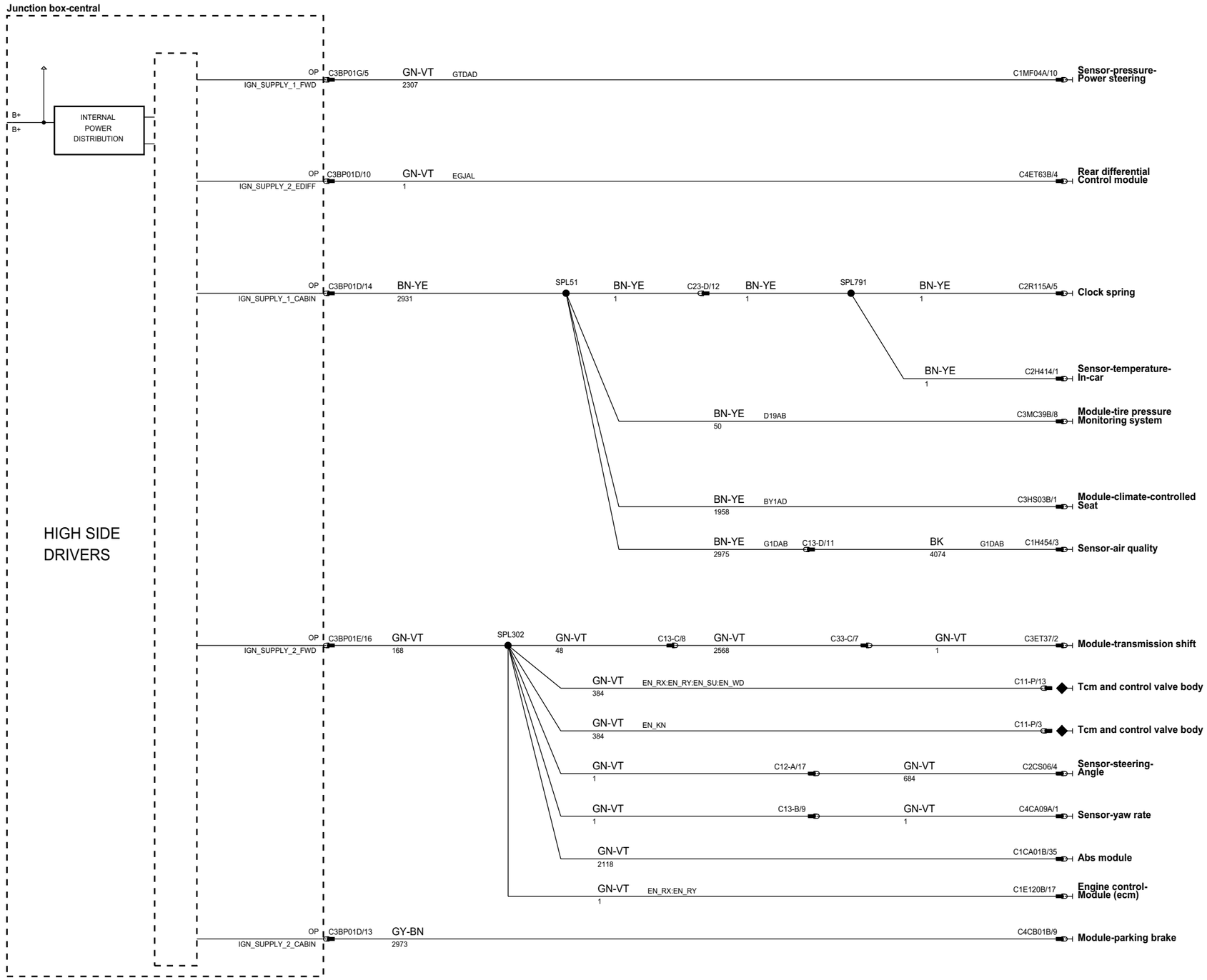

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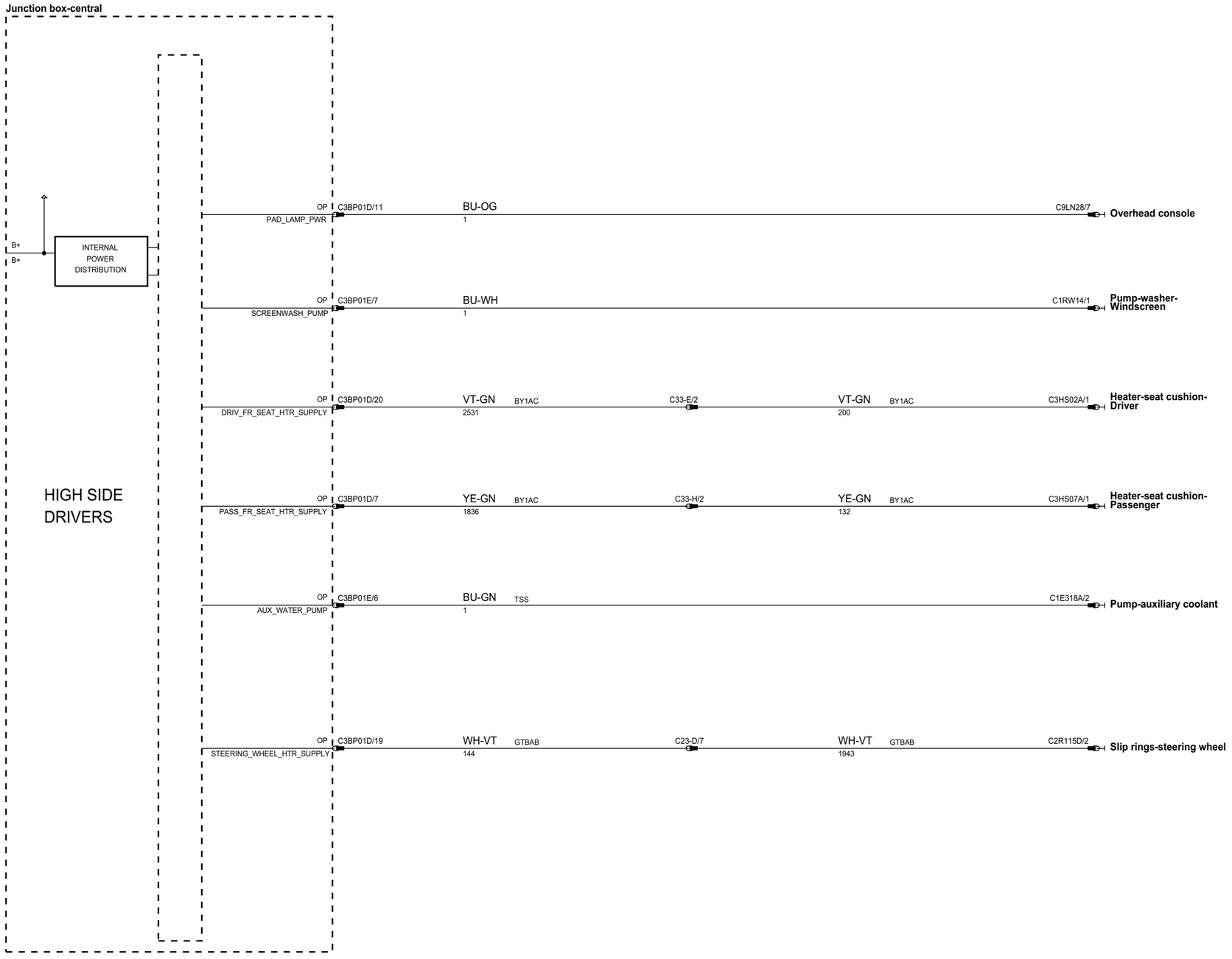

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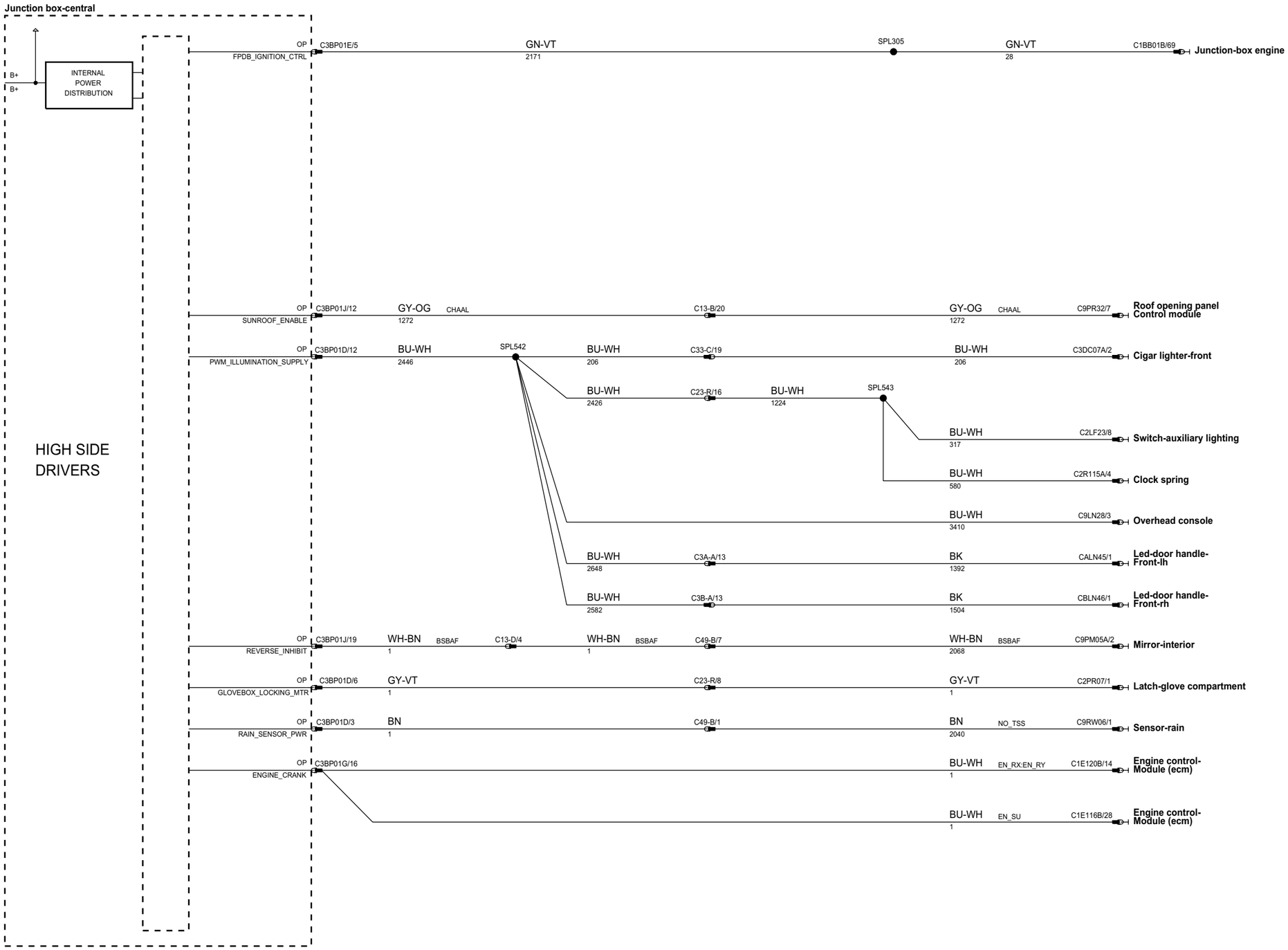

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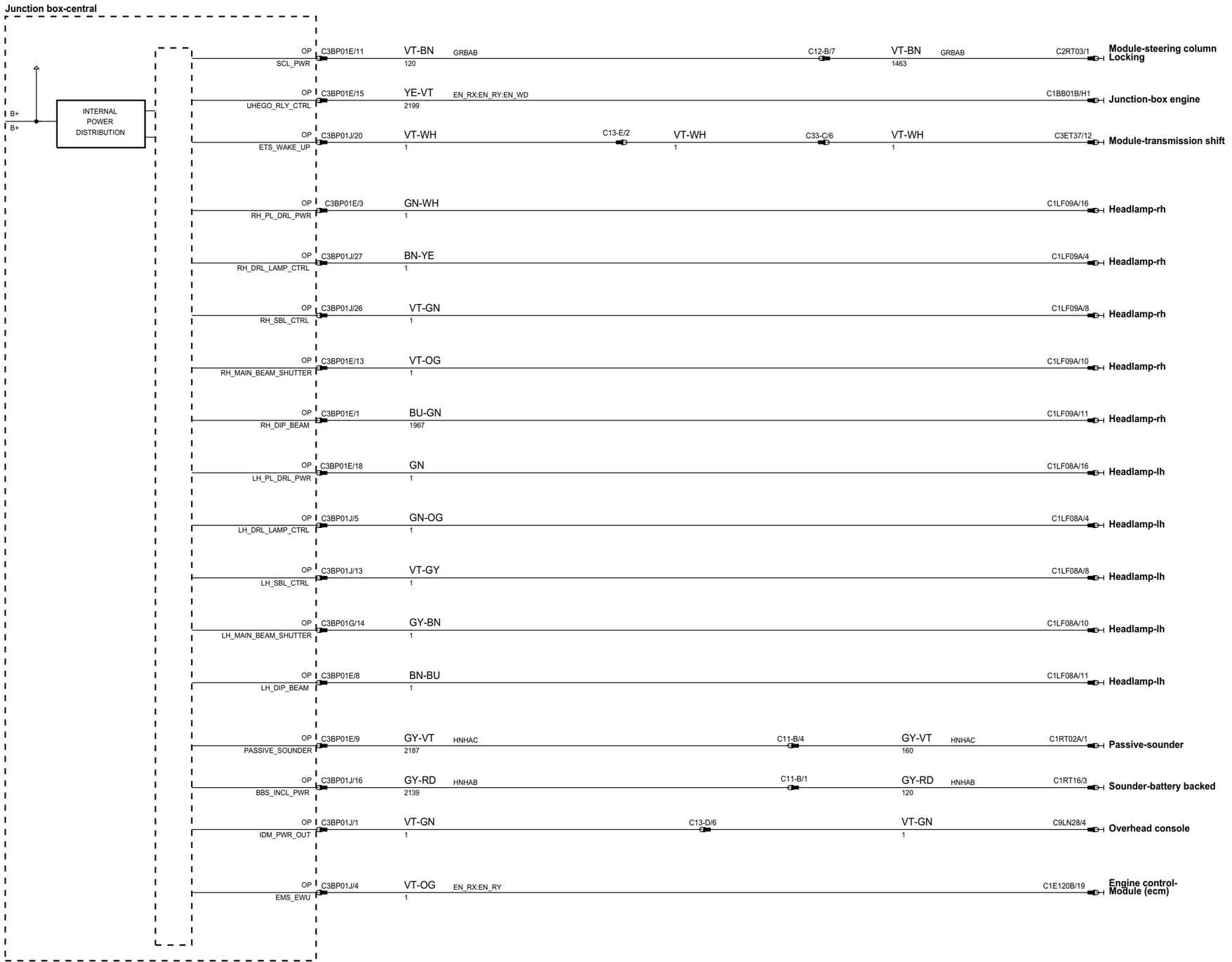

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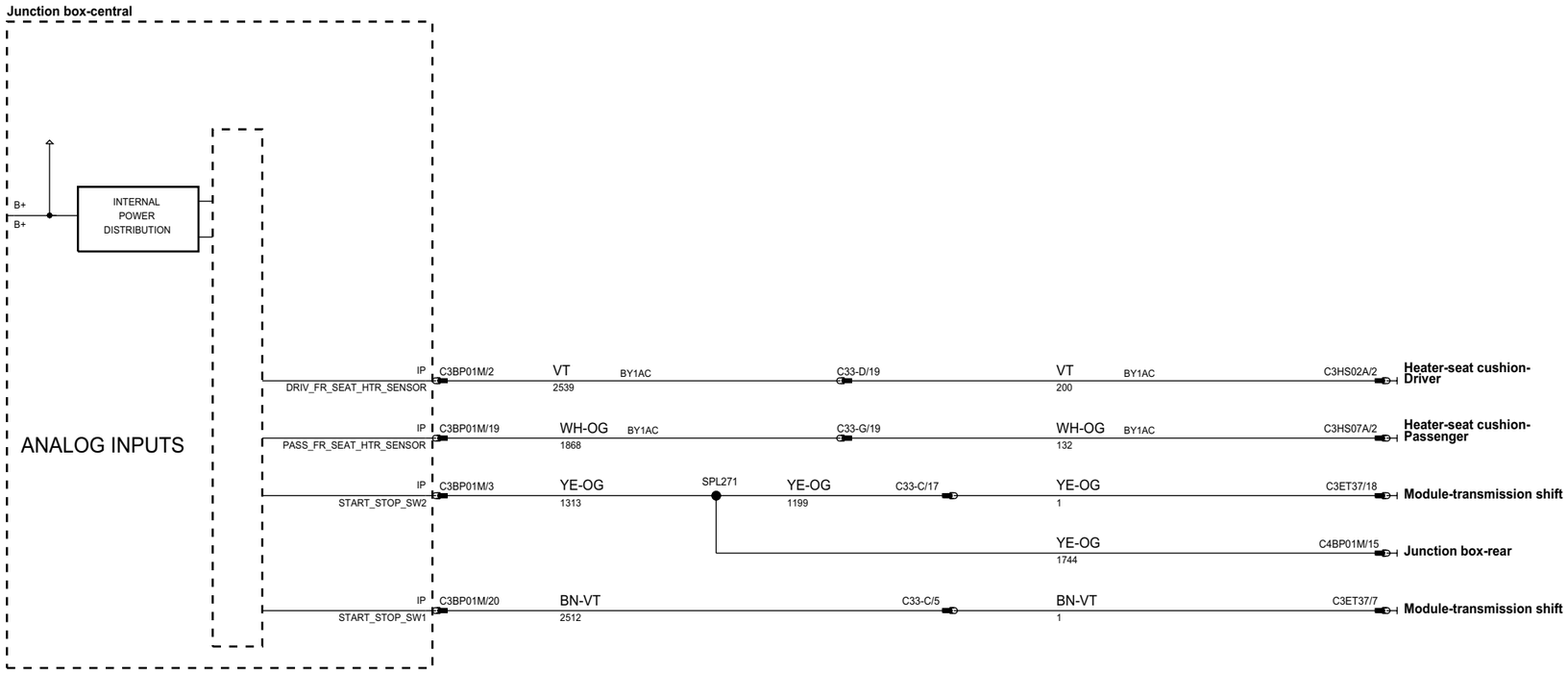

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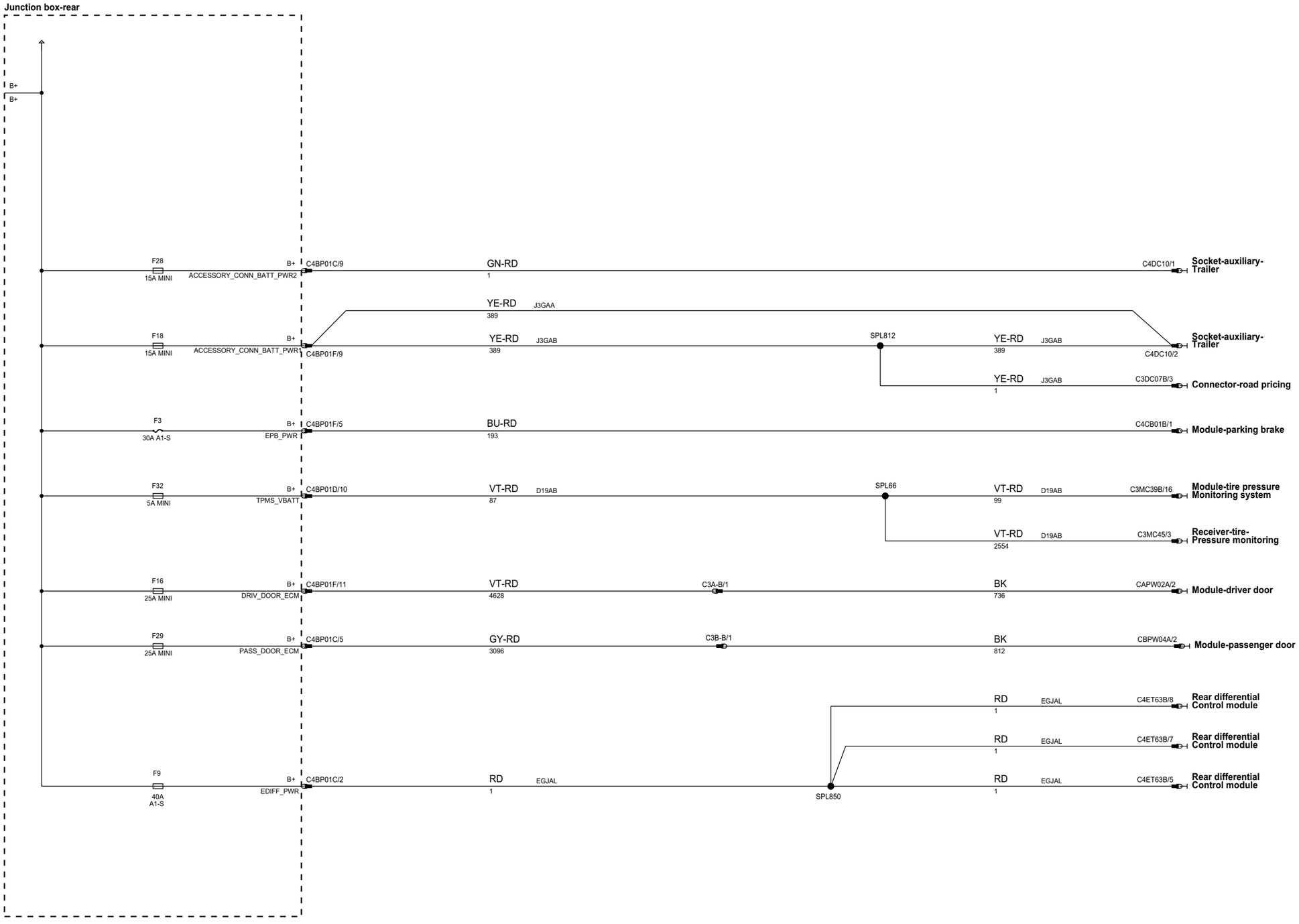

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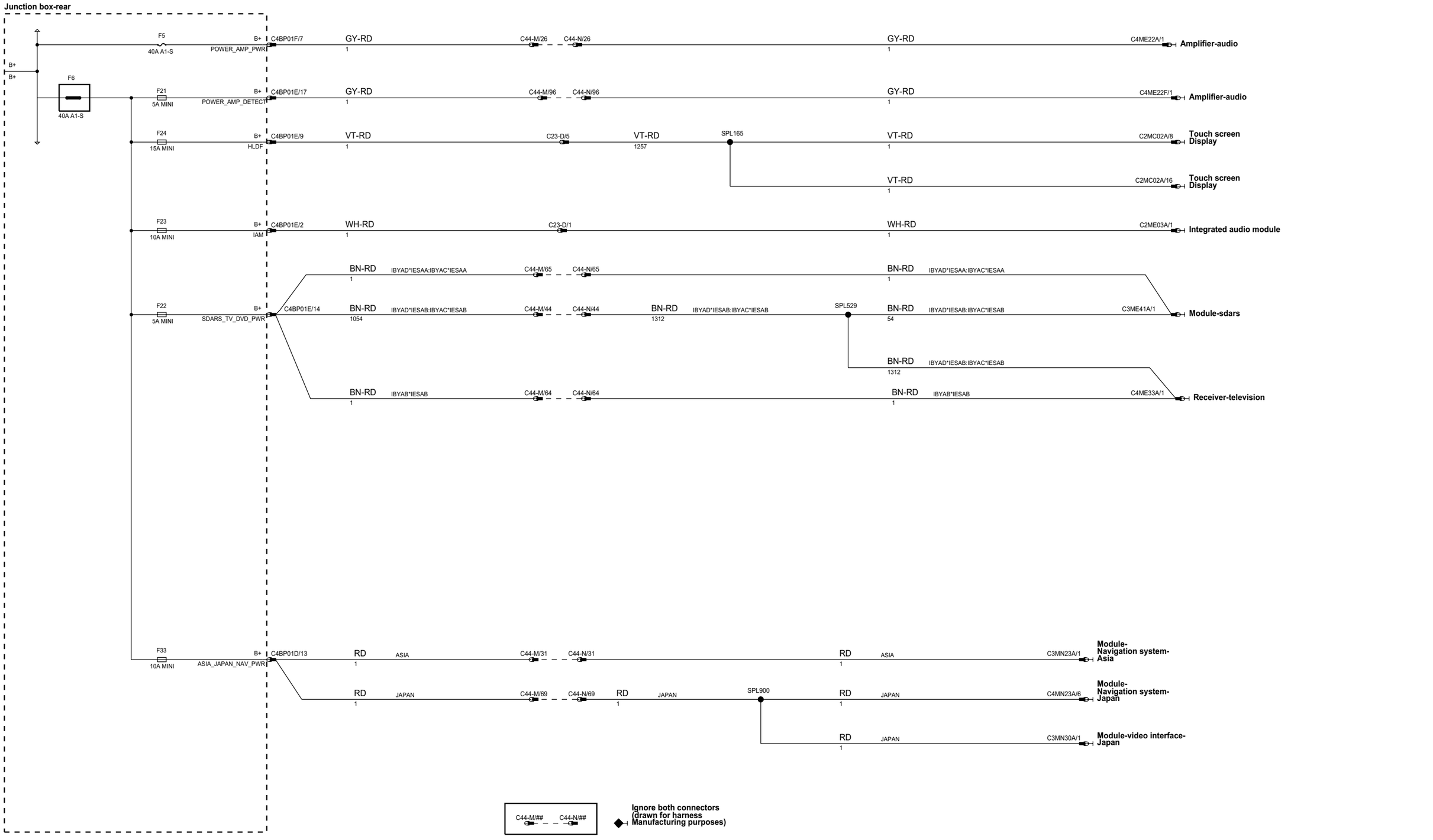

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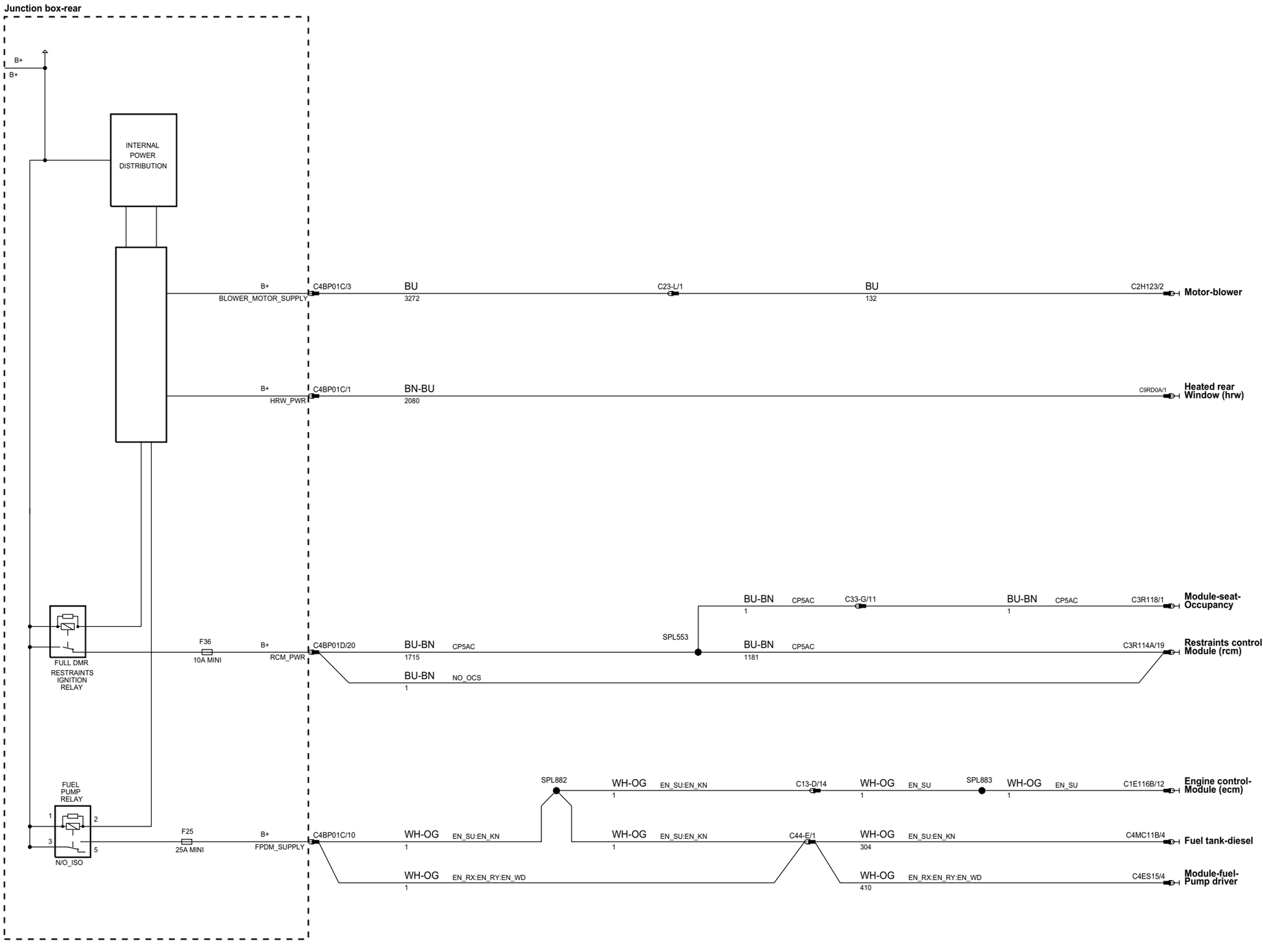

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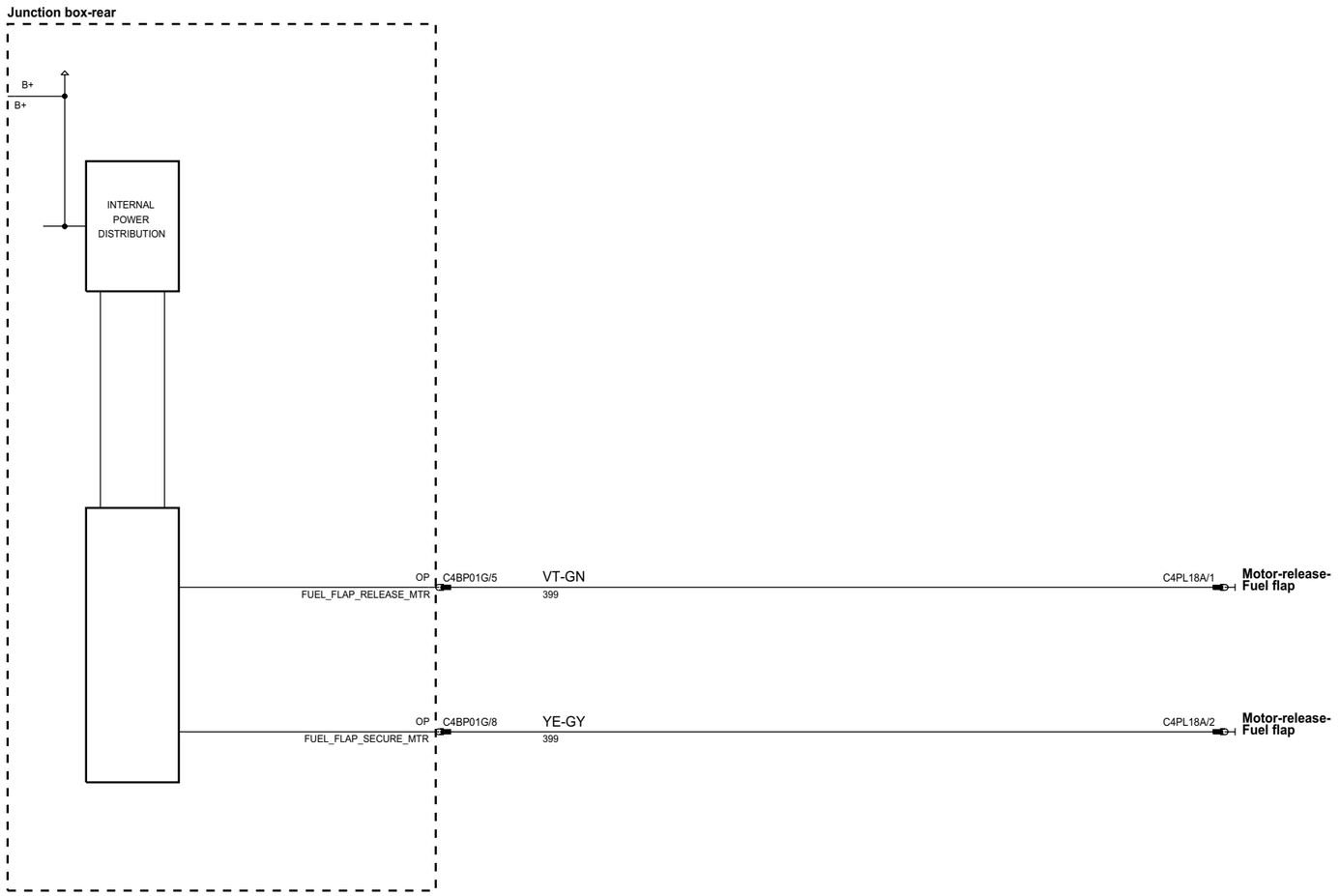

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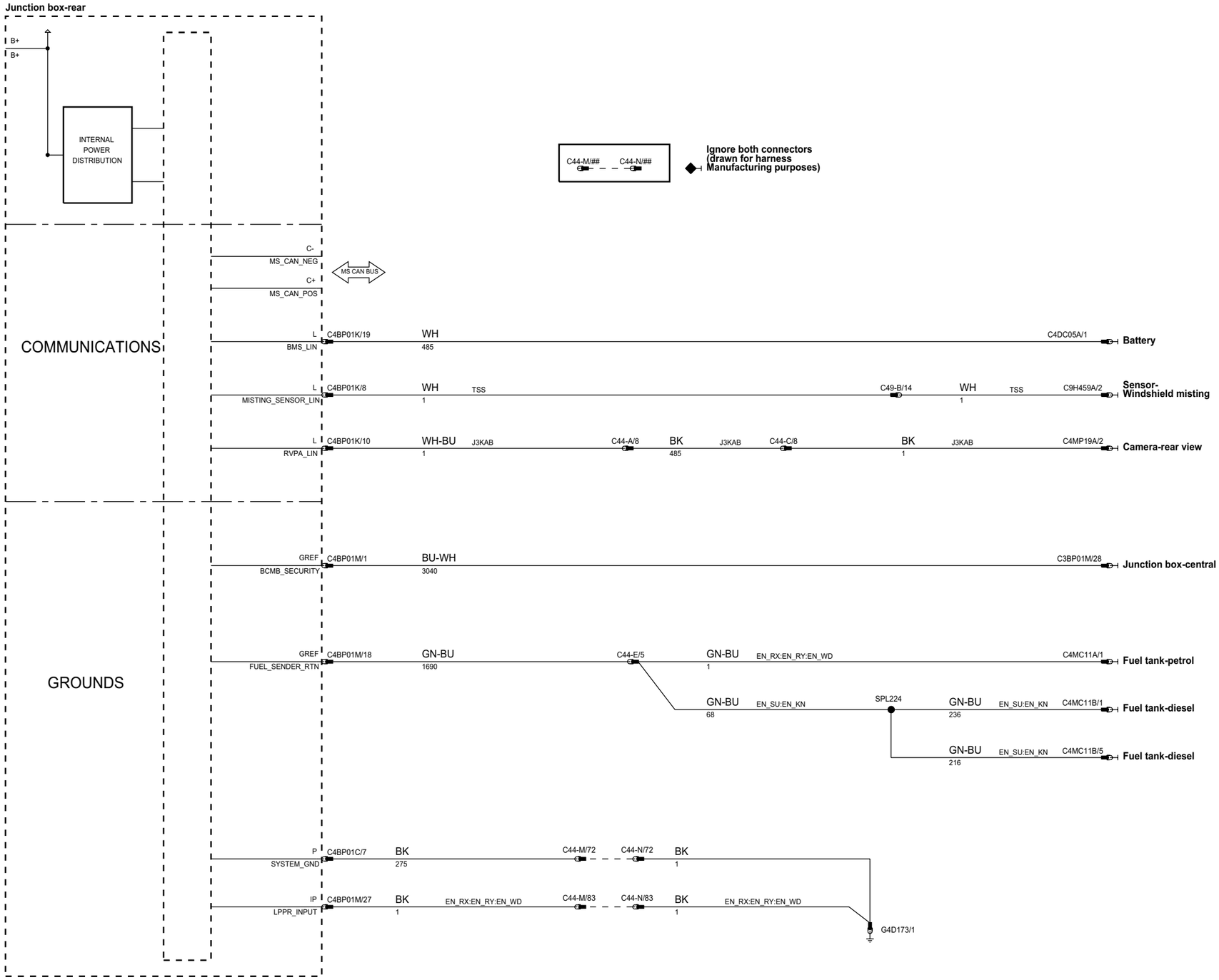

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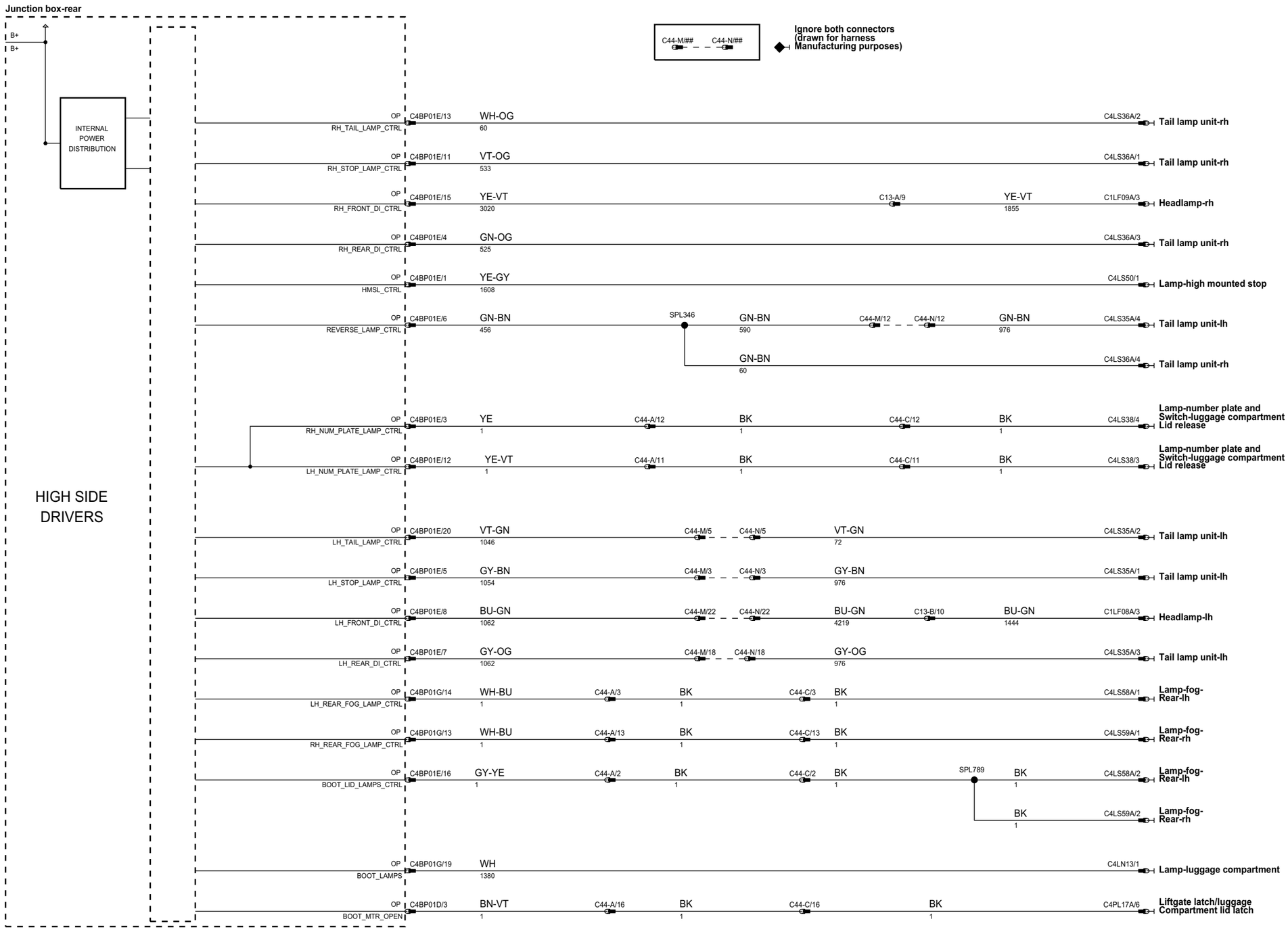

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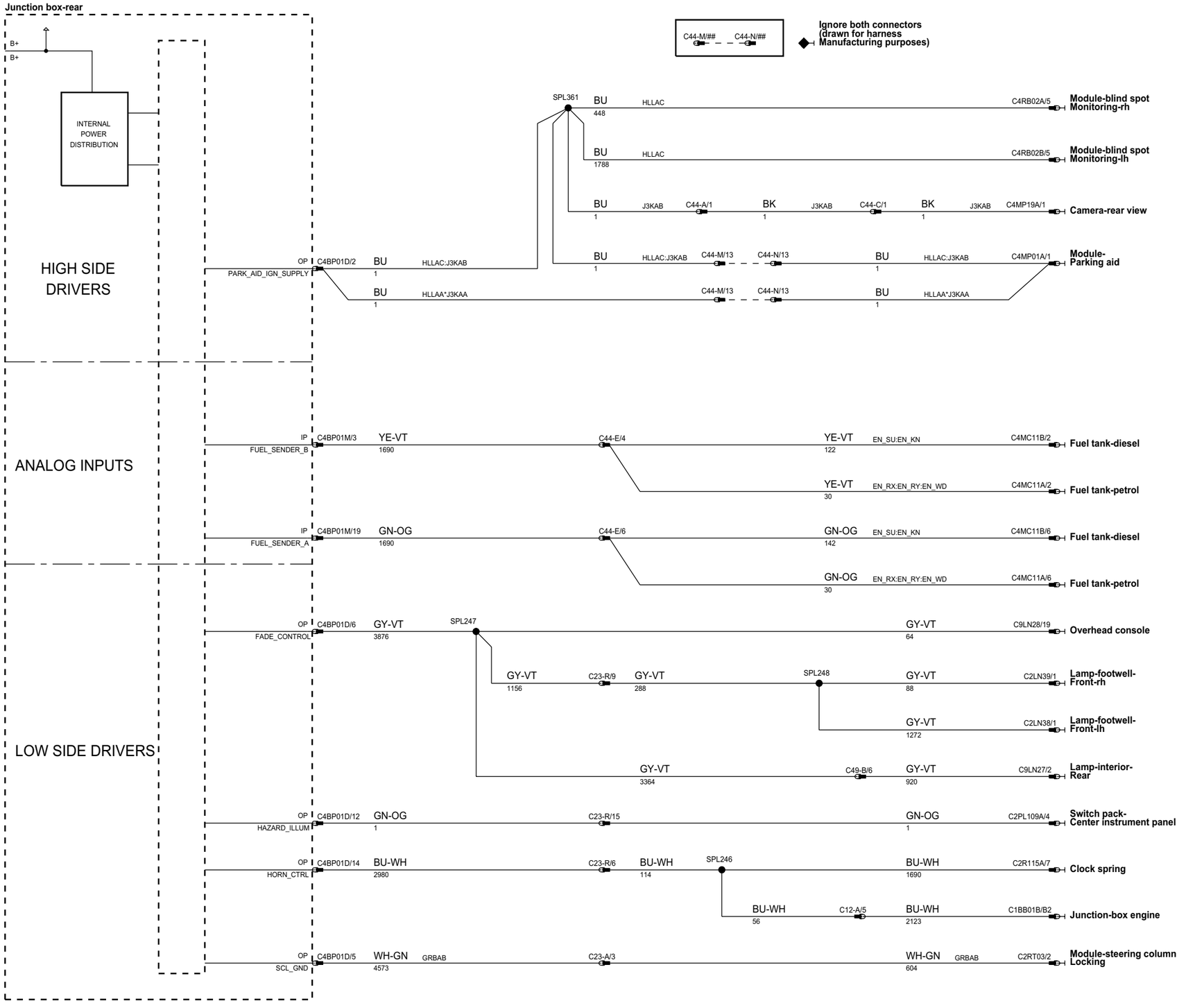

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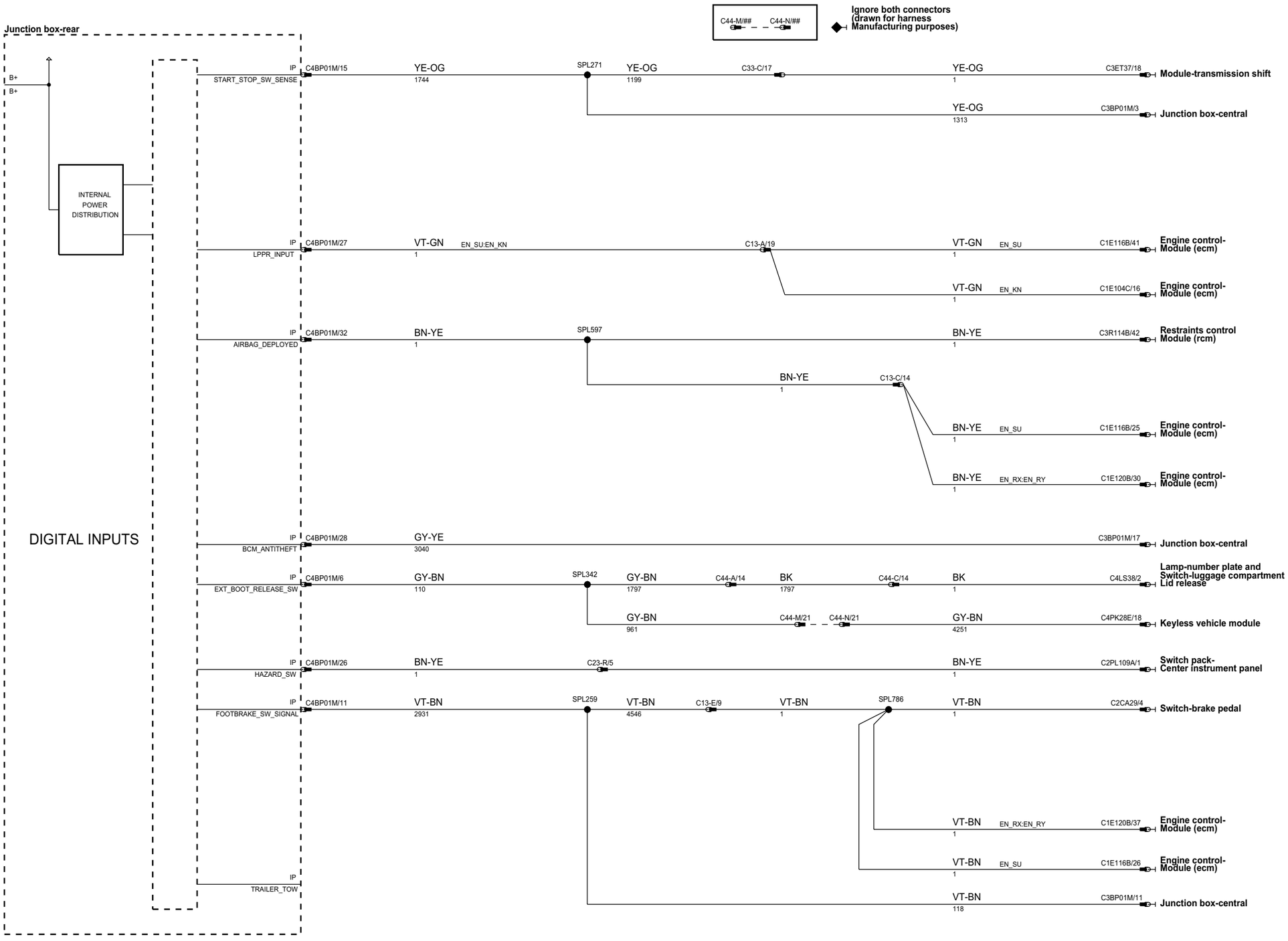

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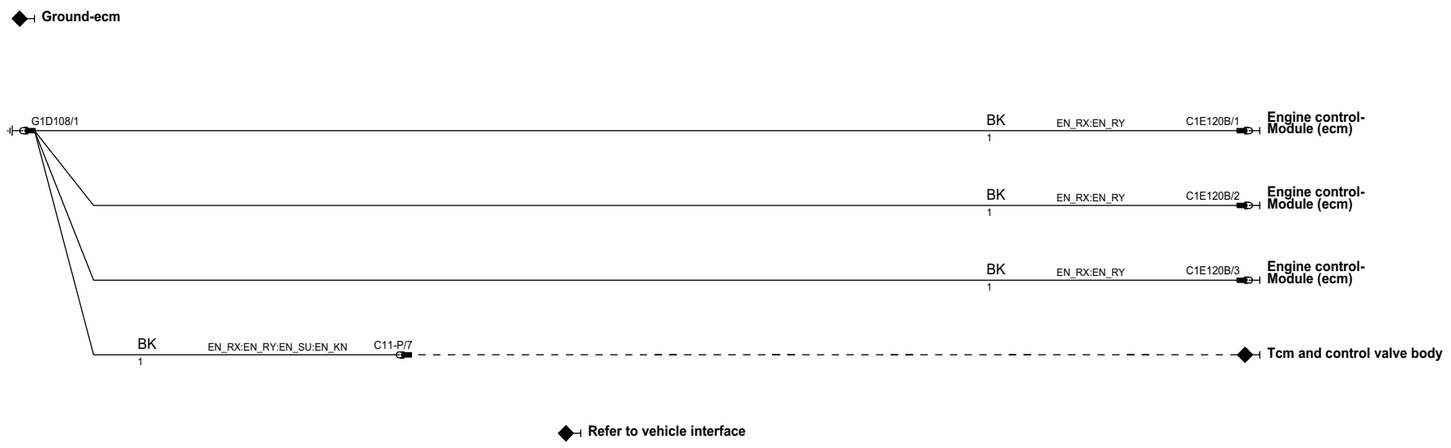

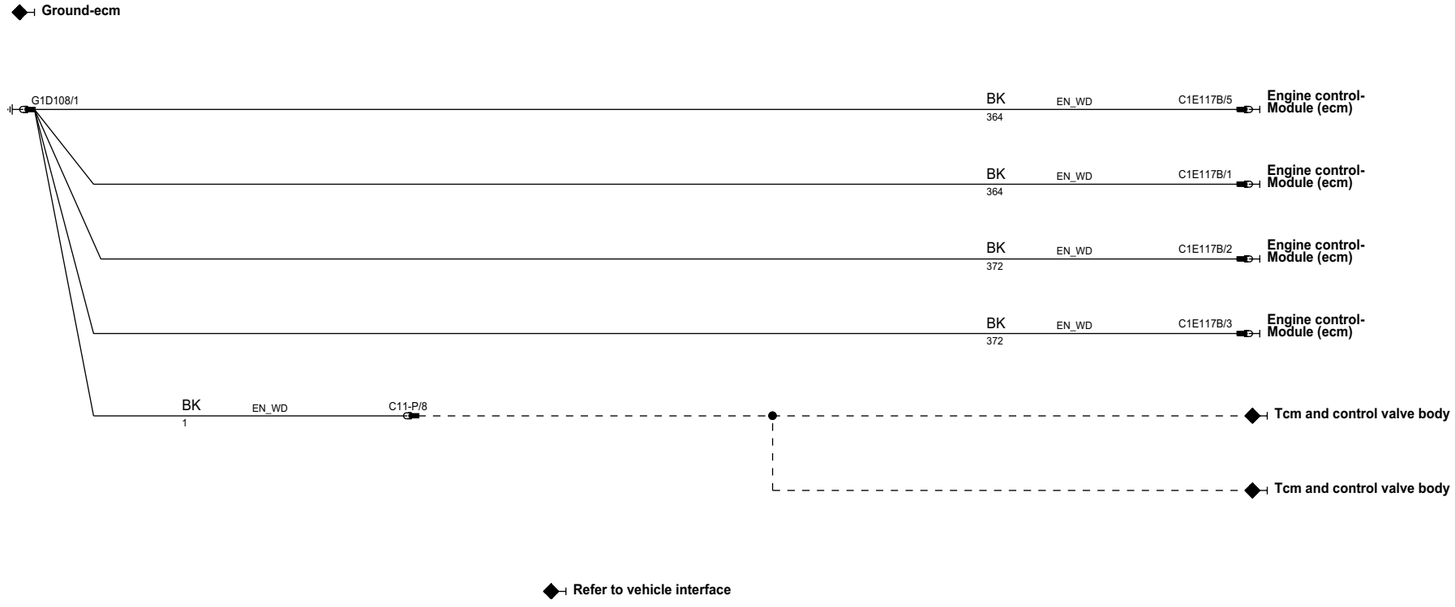

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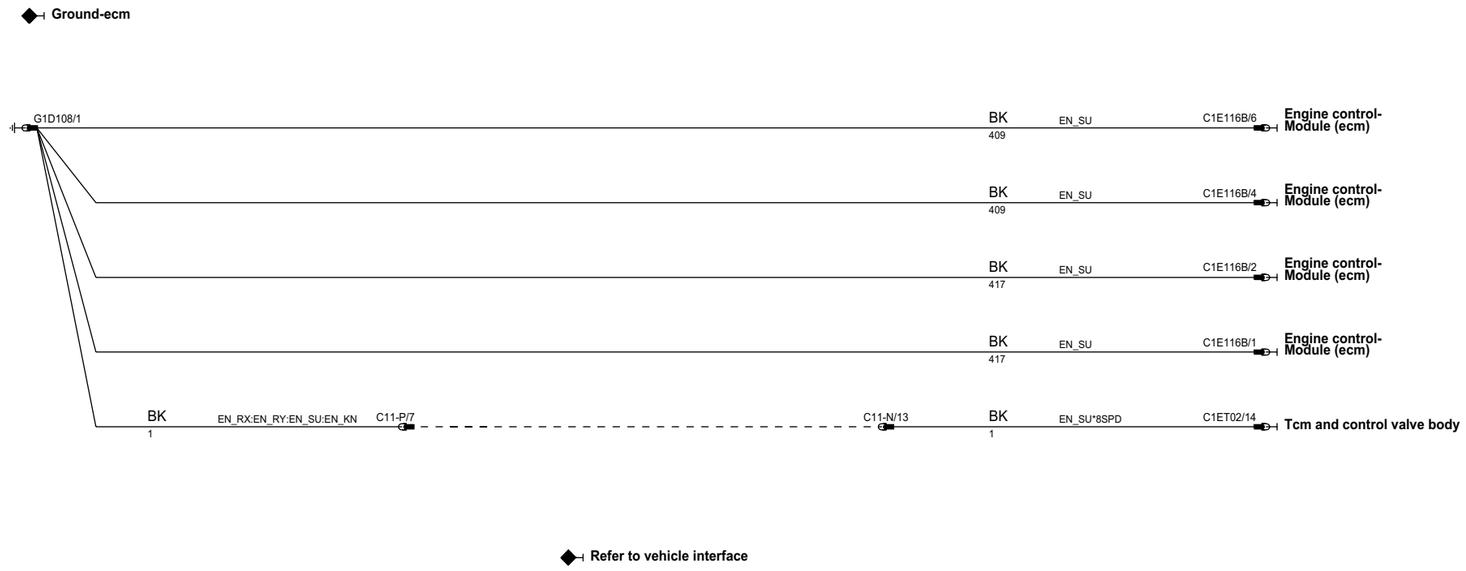

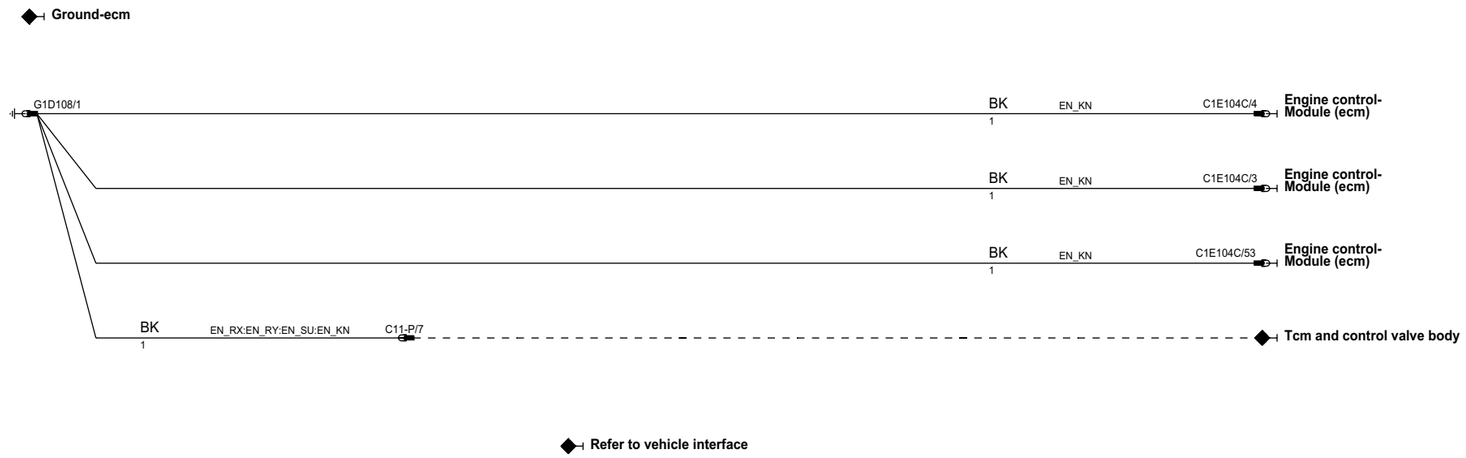

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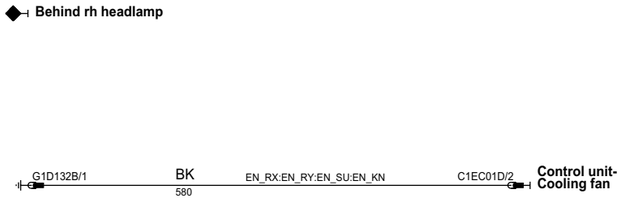

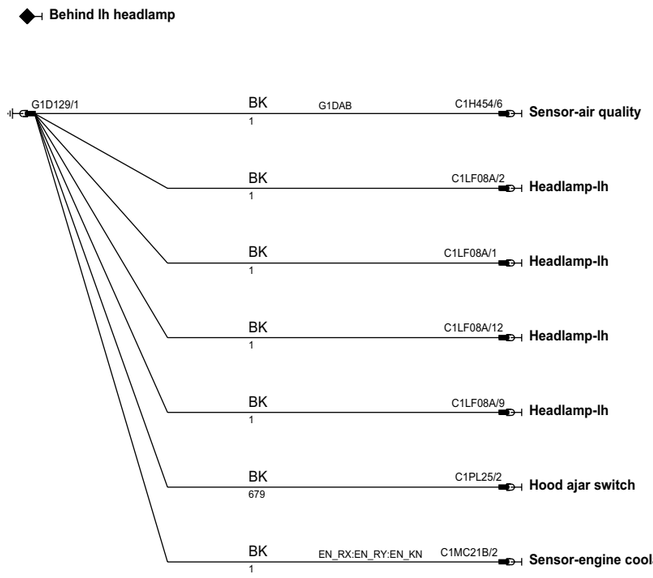

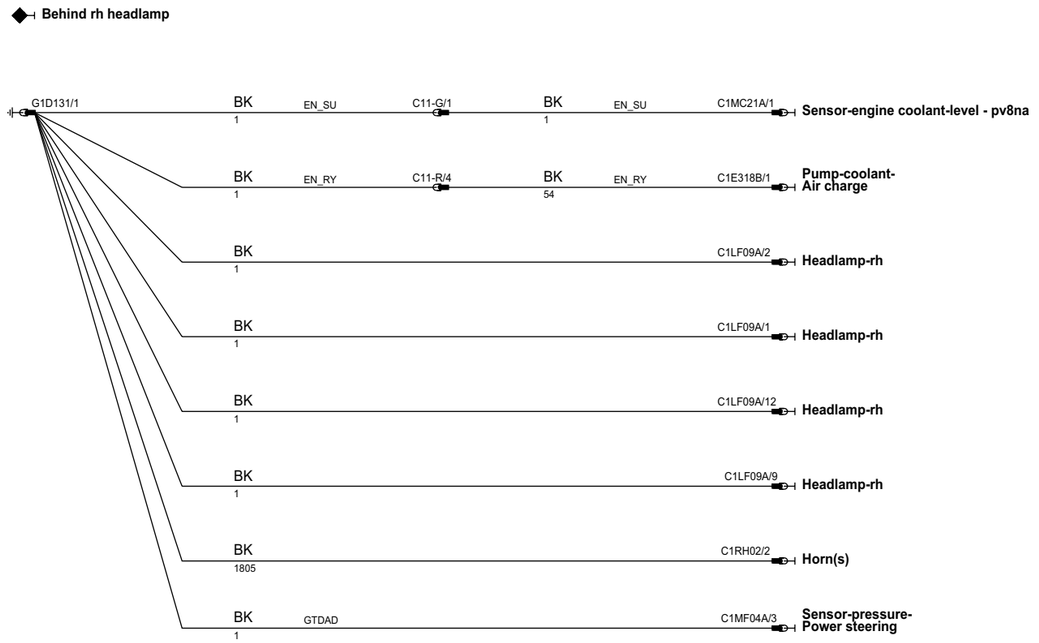

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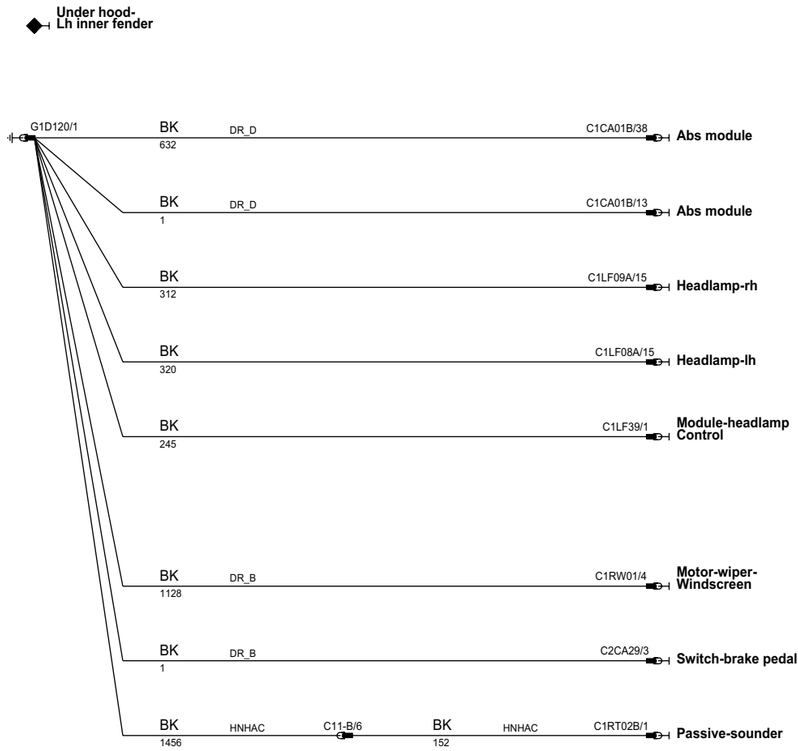

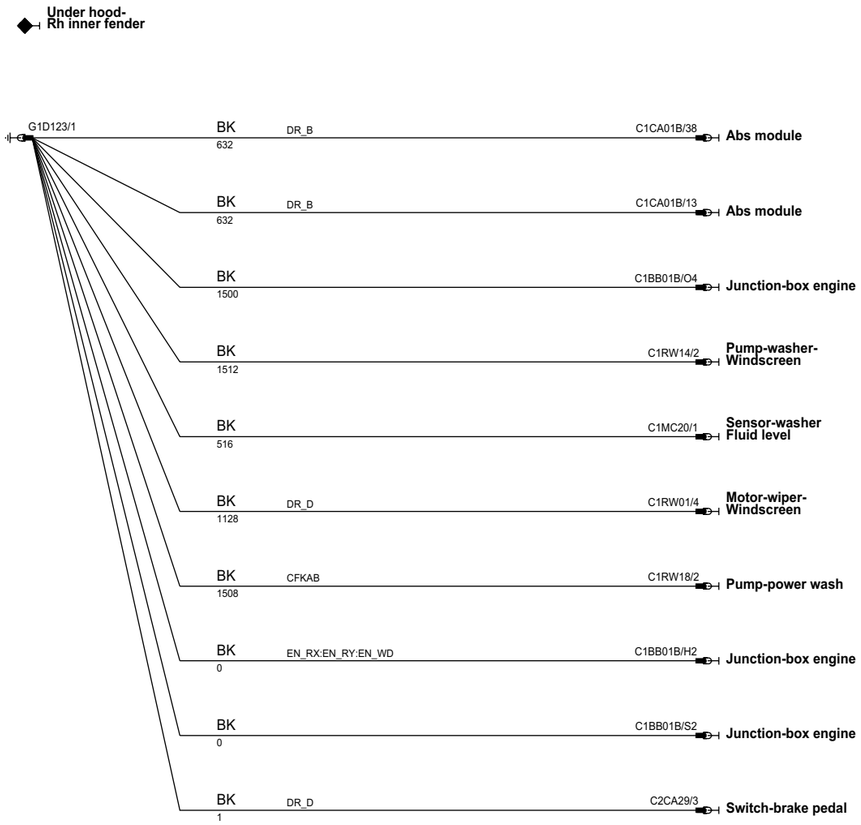

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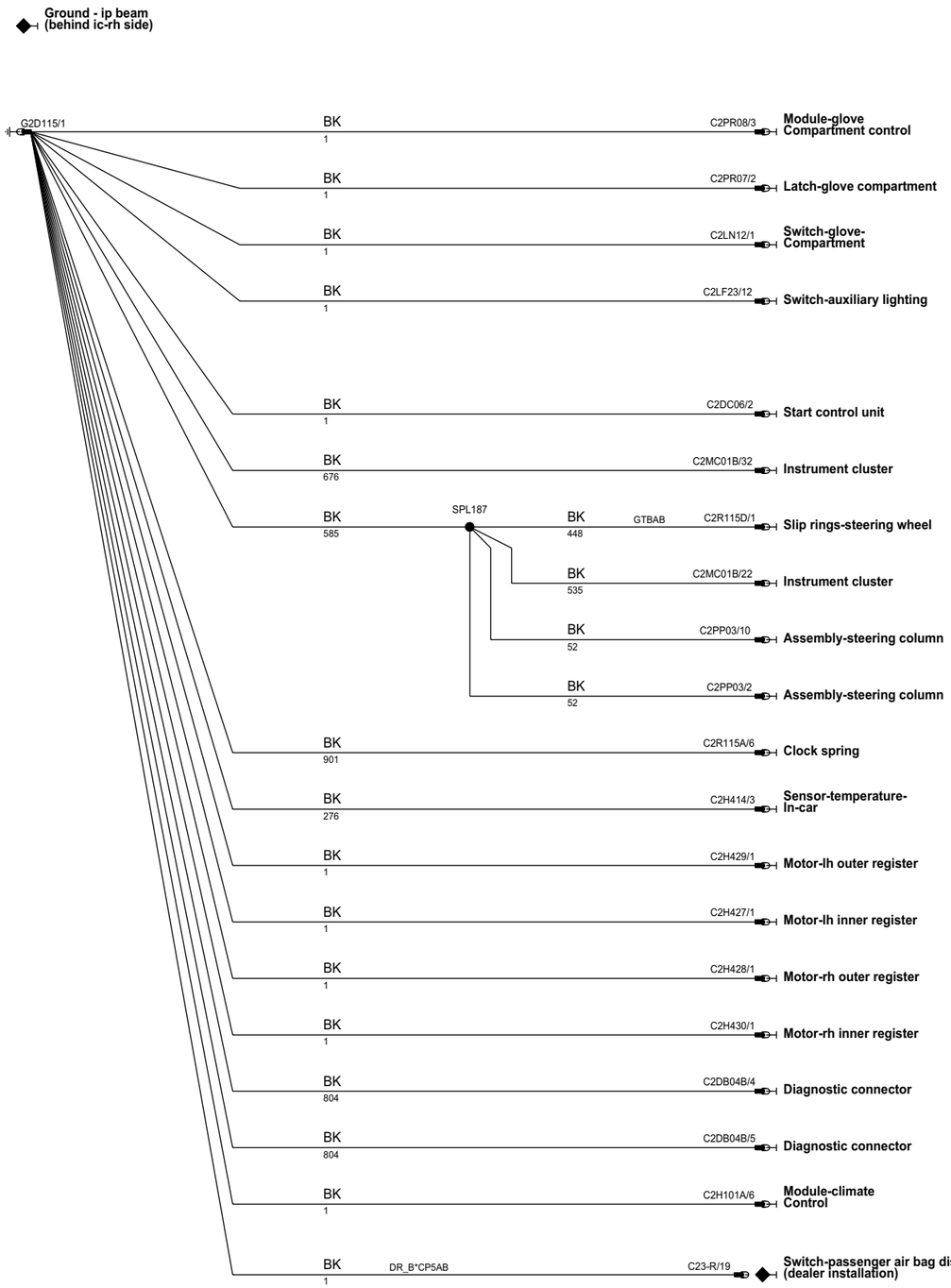

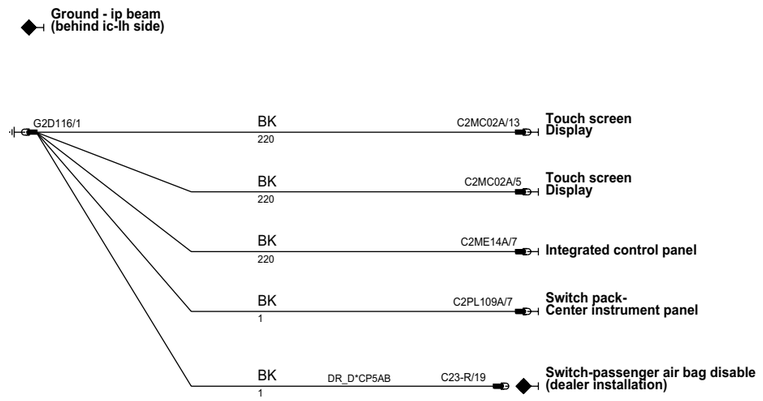

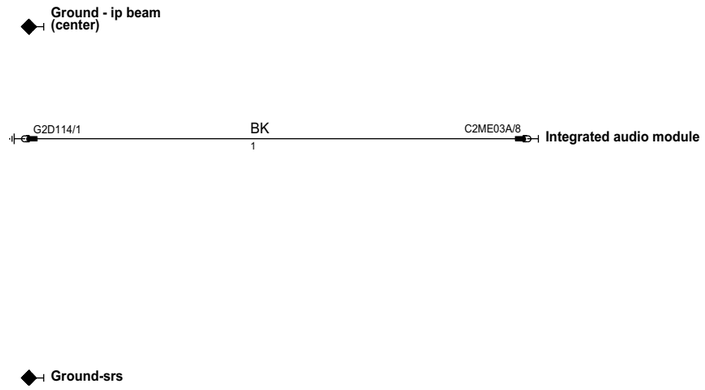

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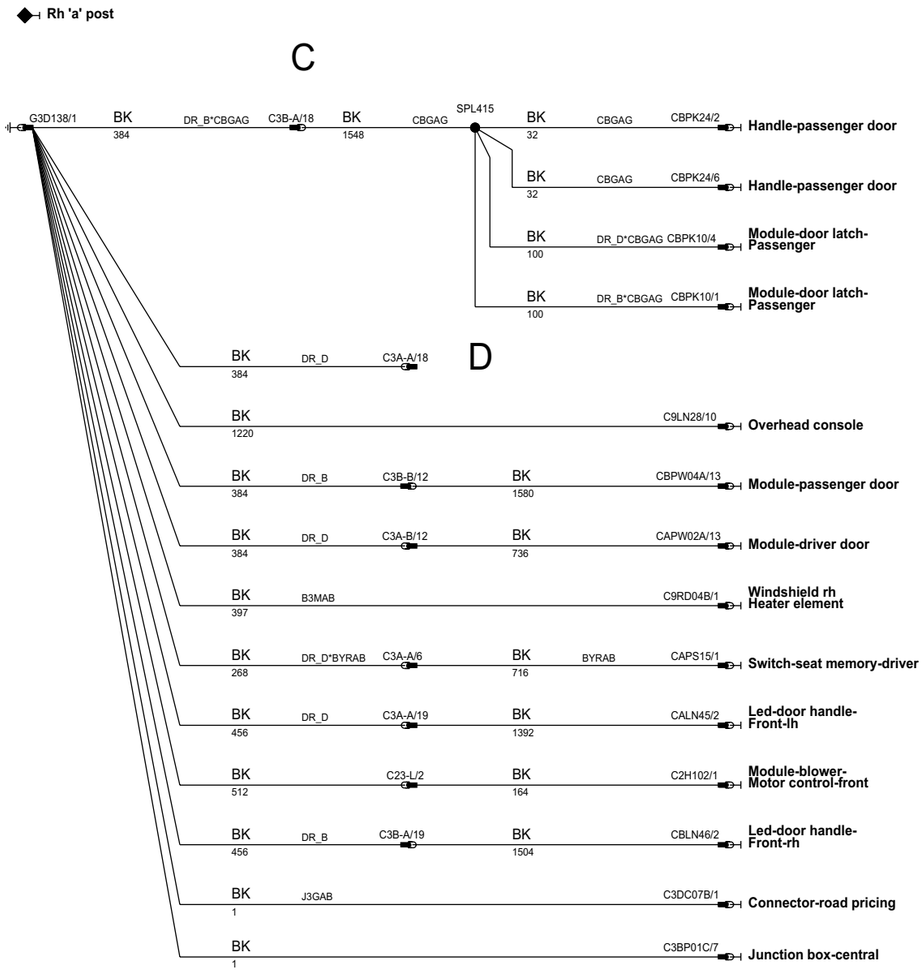

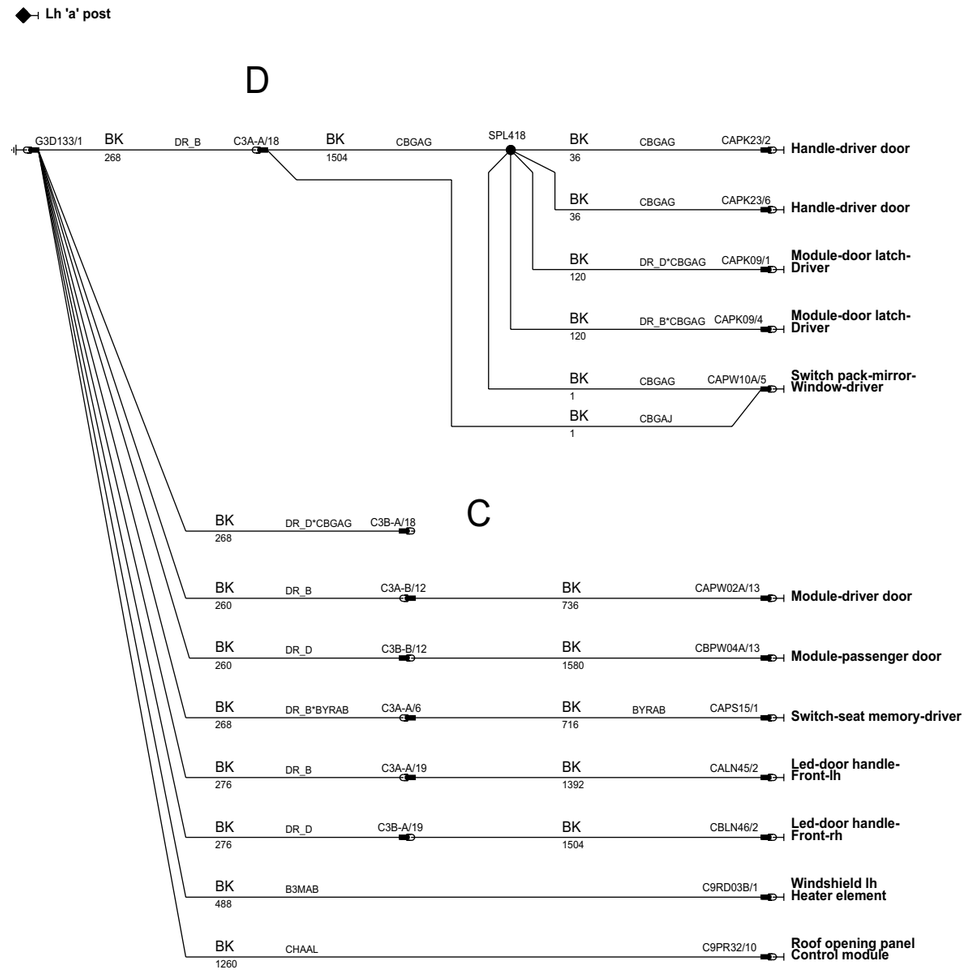

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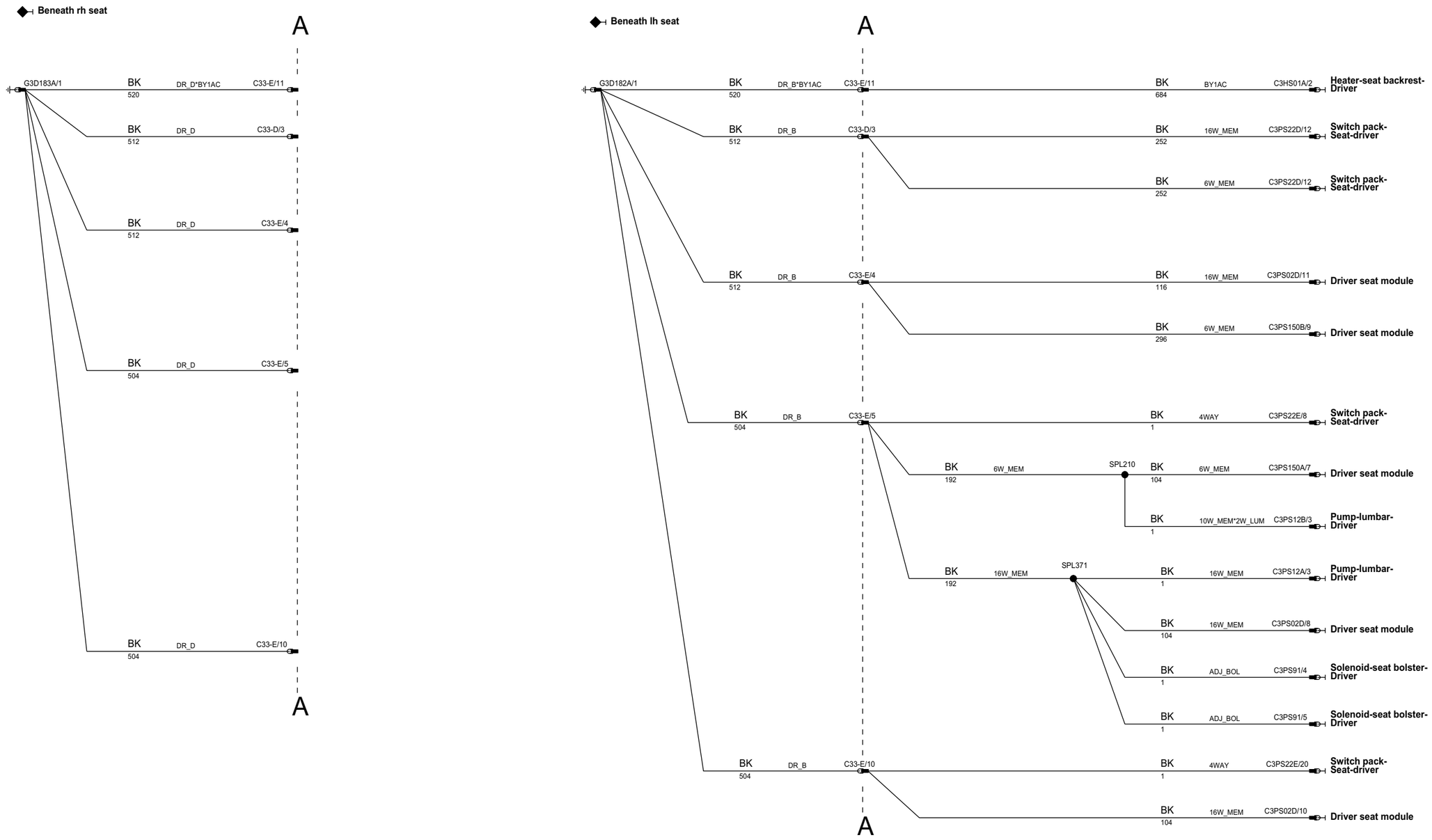

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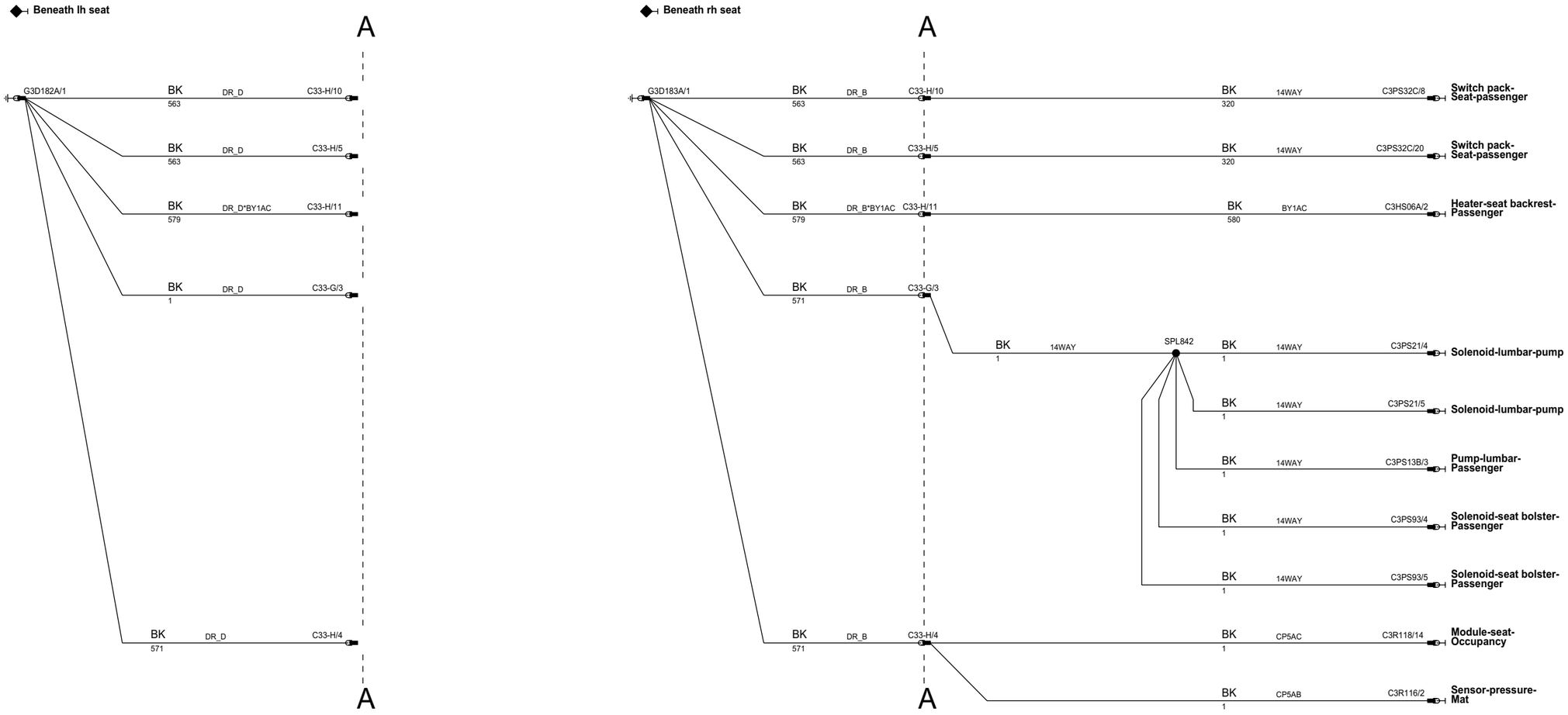

x

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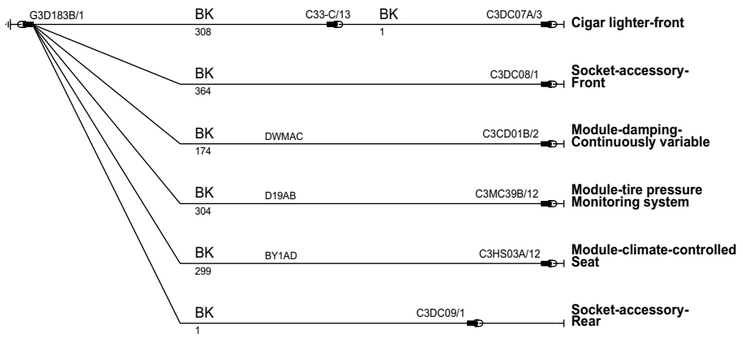
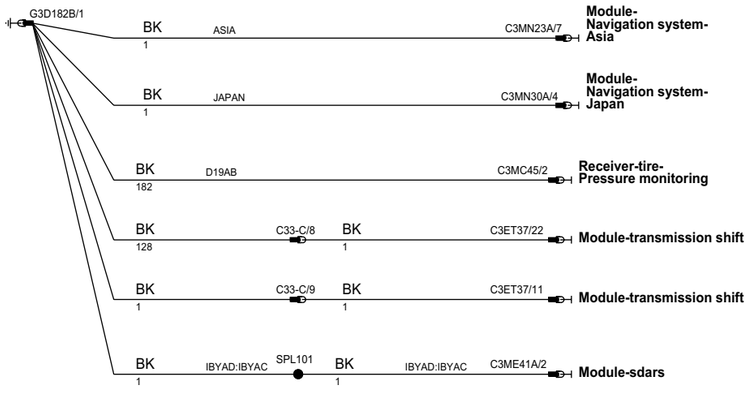
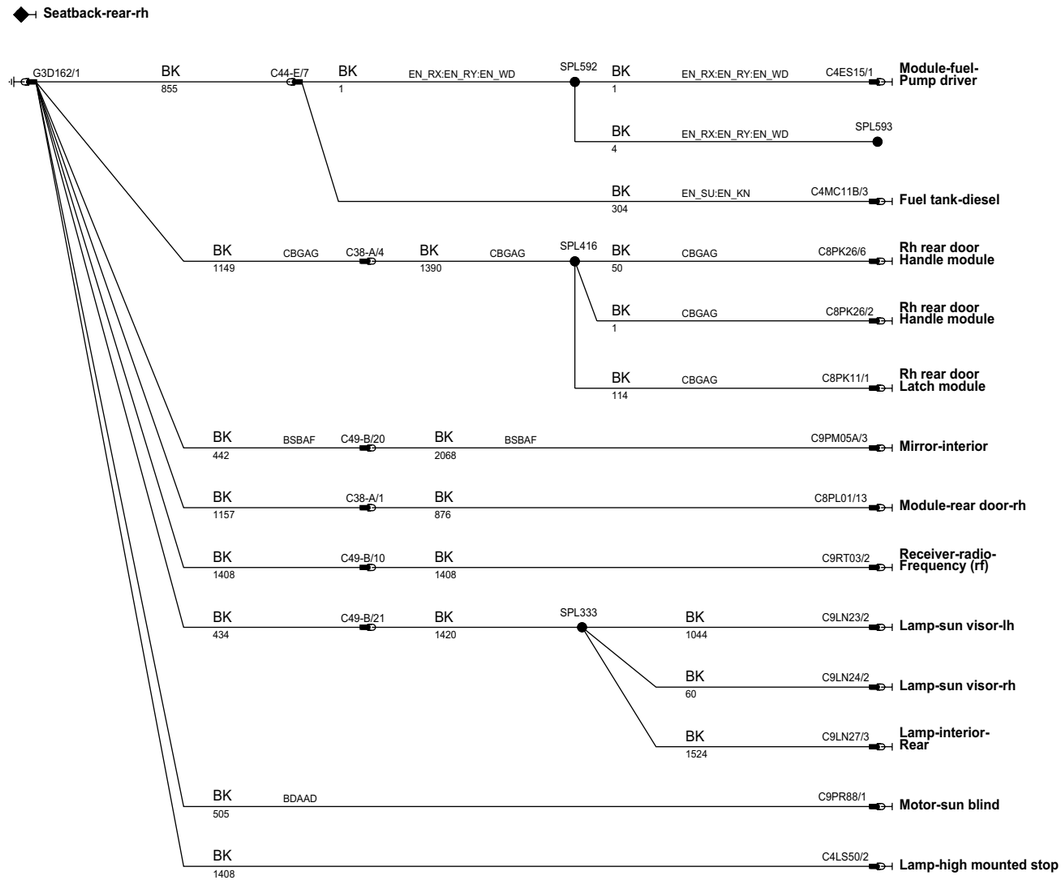
Beneath rh seat



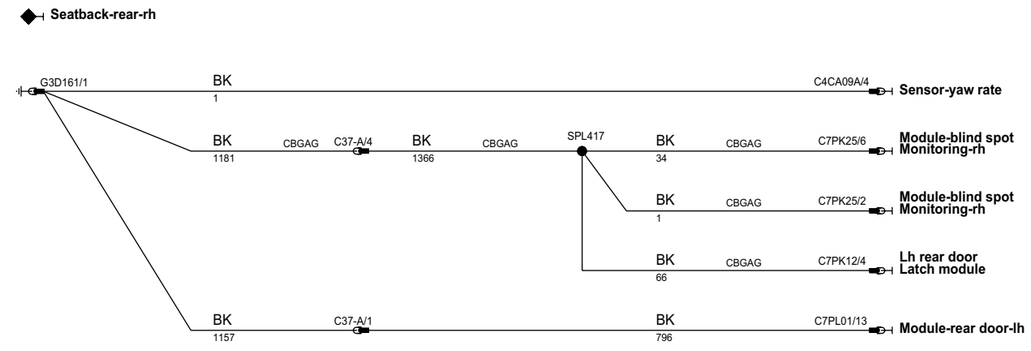
Beneath lh seat



Seatback-rear-rh



Seatback-rear-rh



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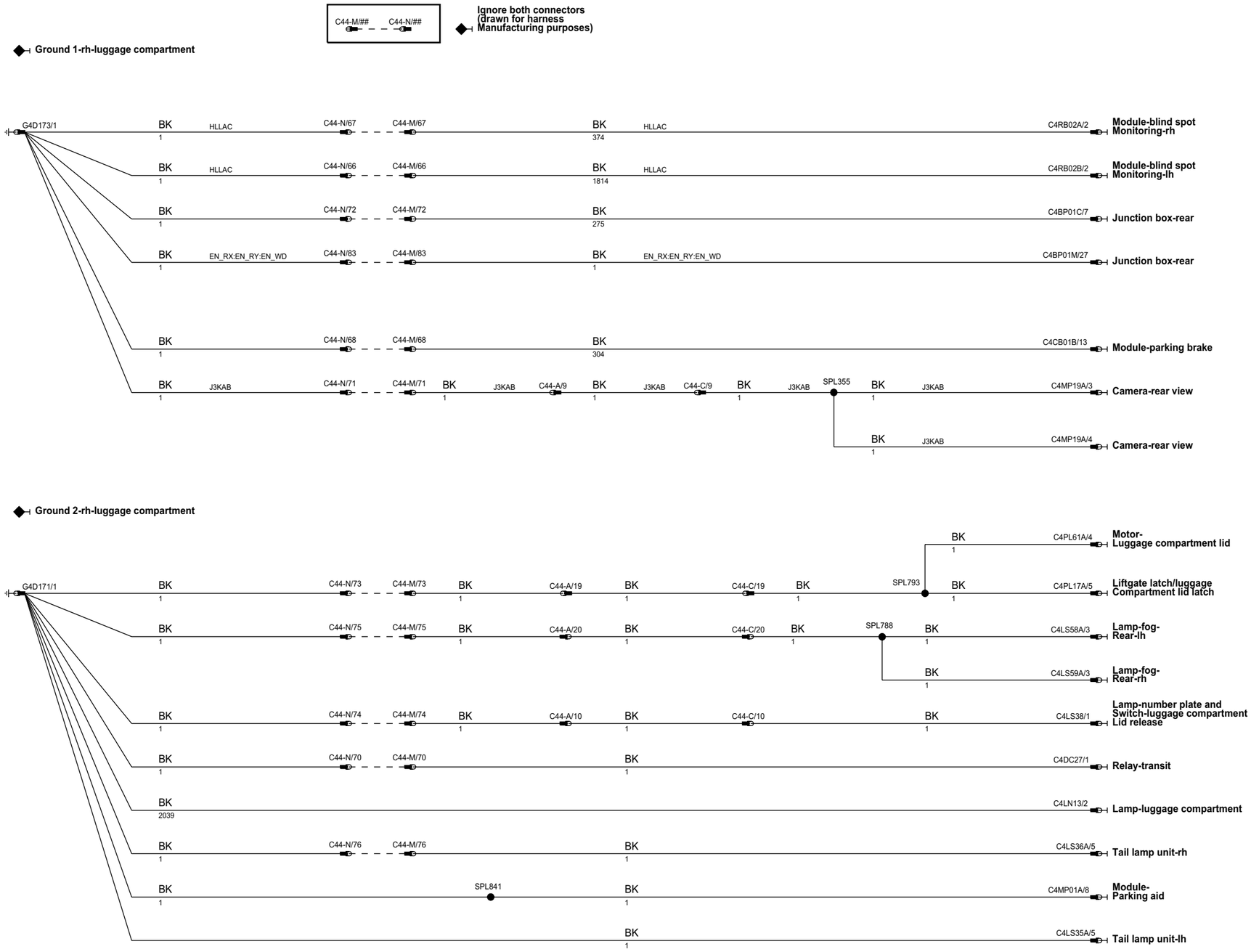

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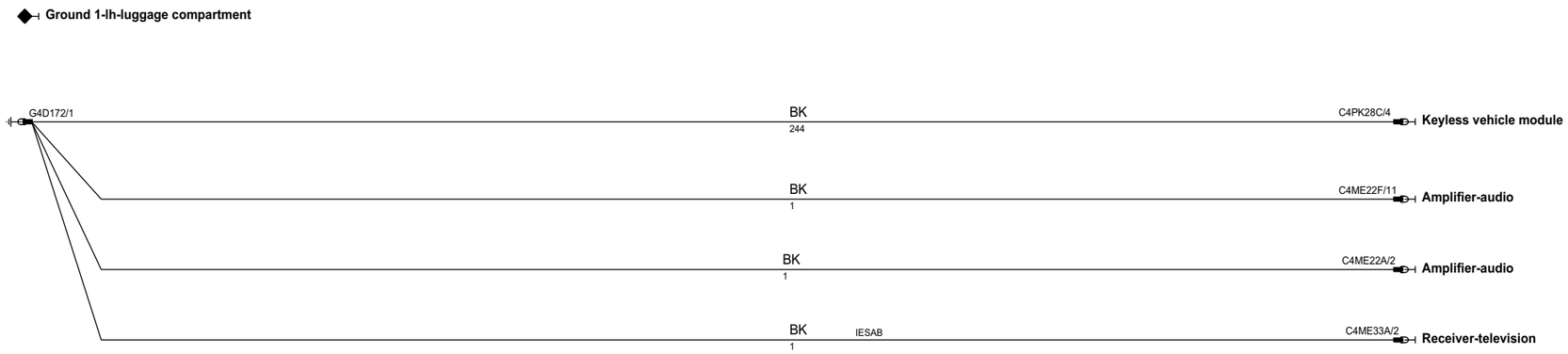

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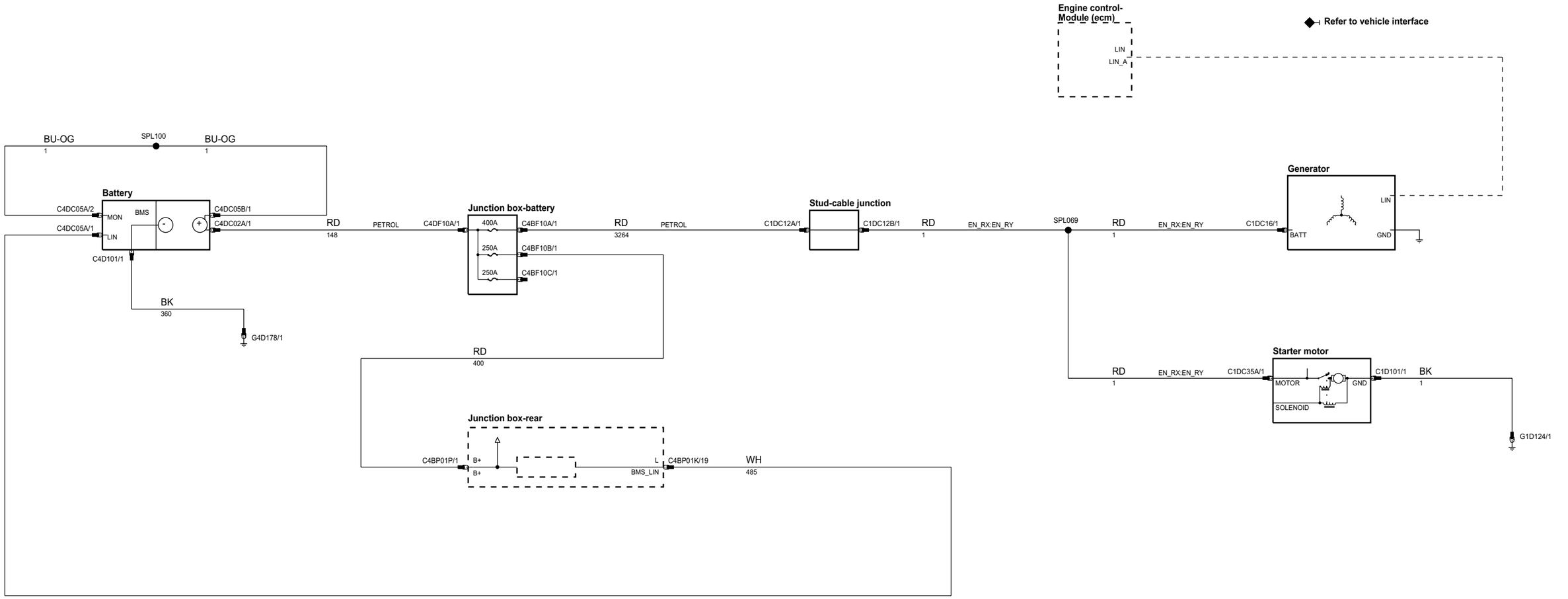

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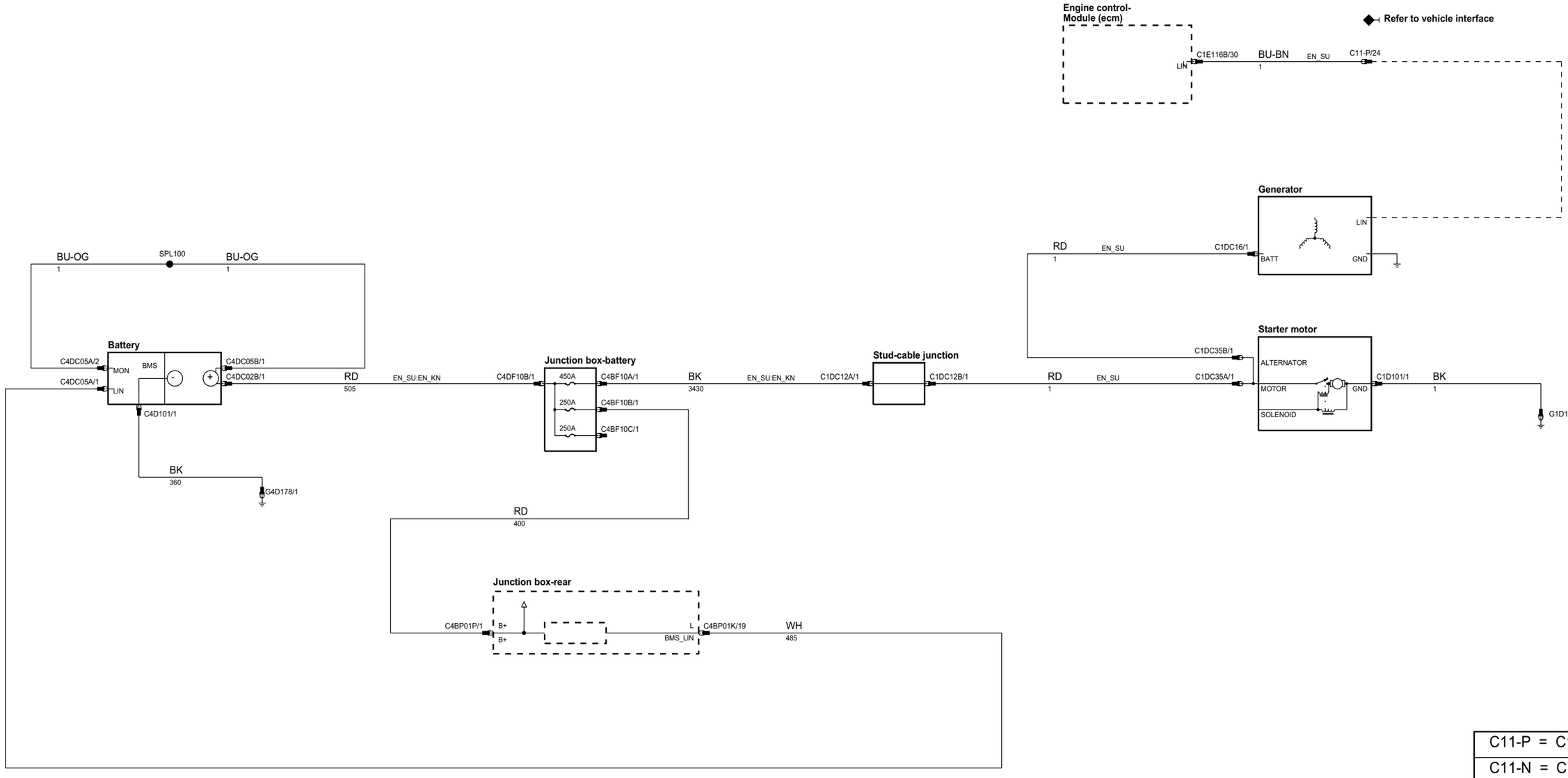

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C11-N = C11-B
C11-M = C11-C

x

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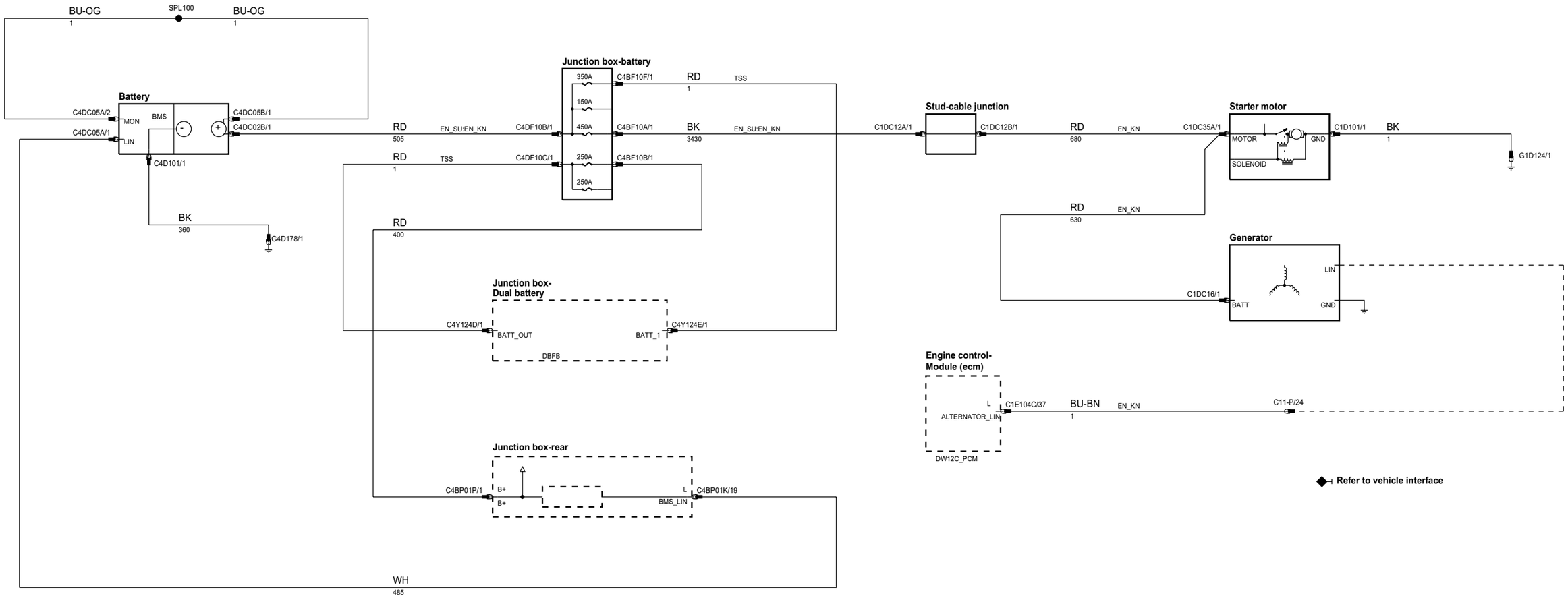

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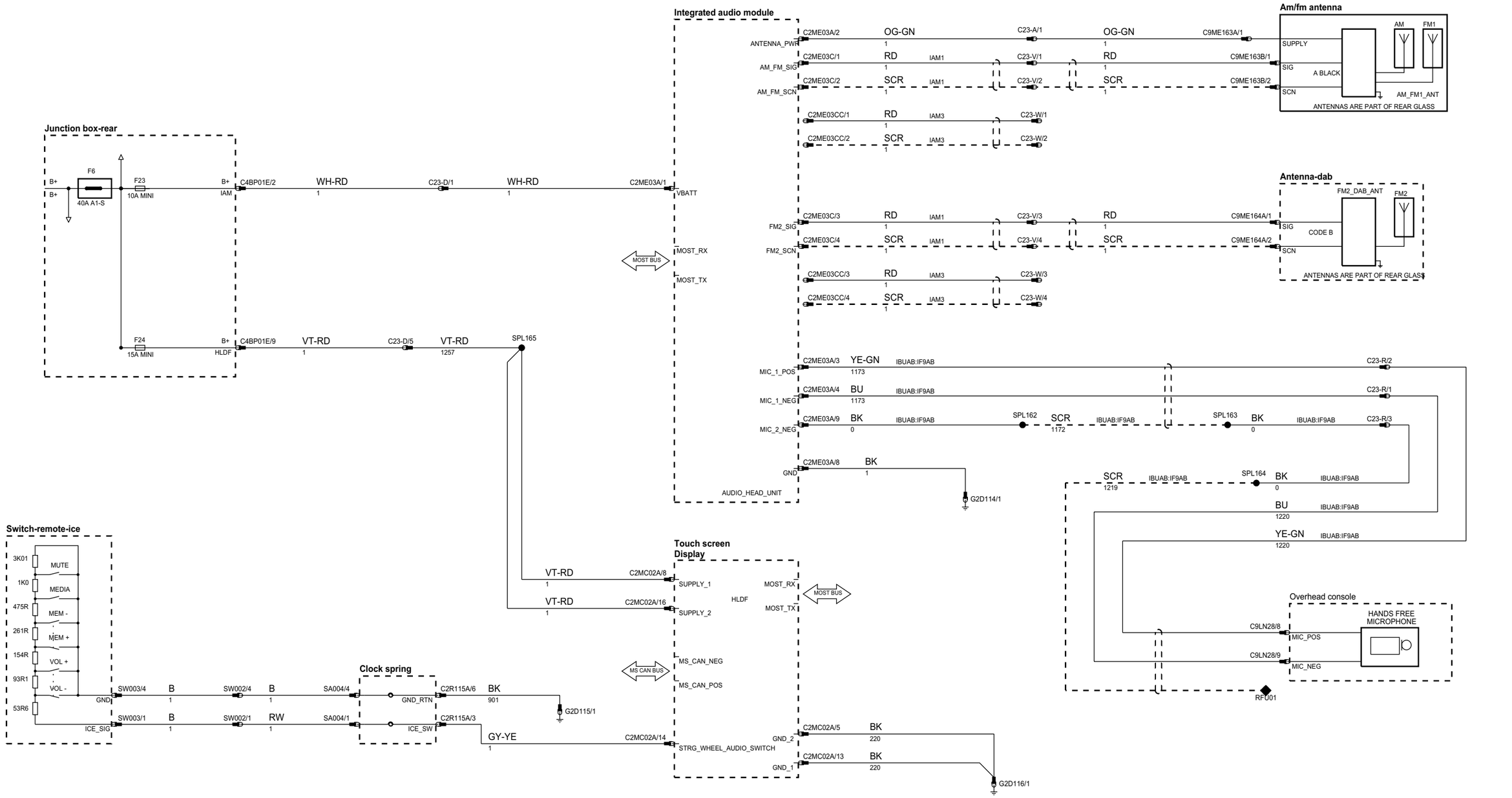

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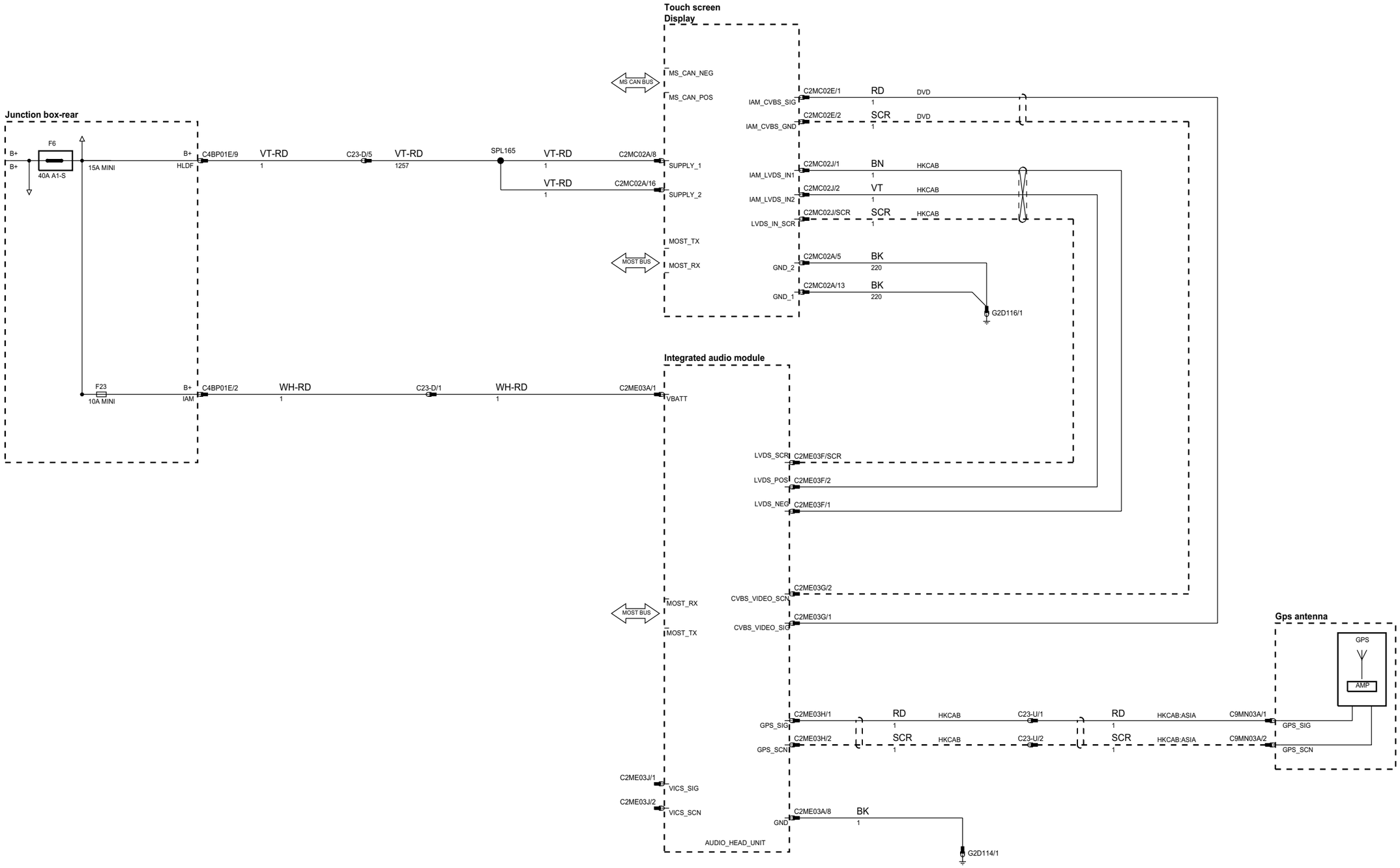

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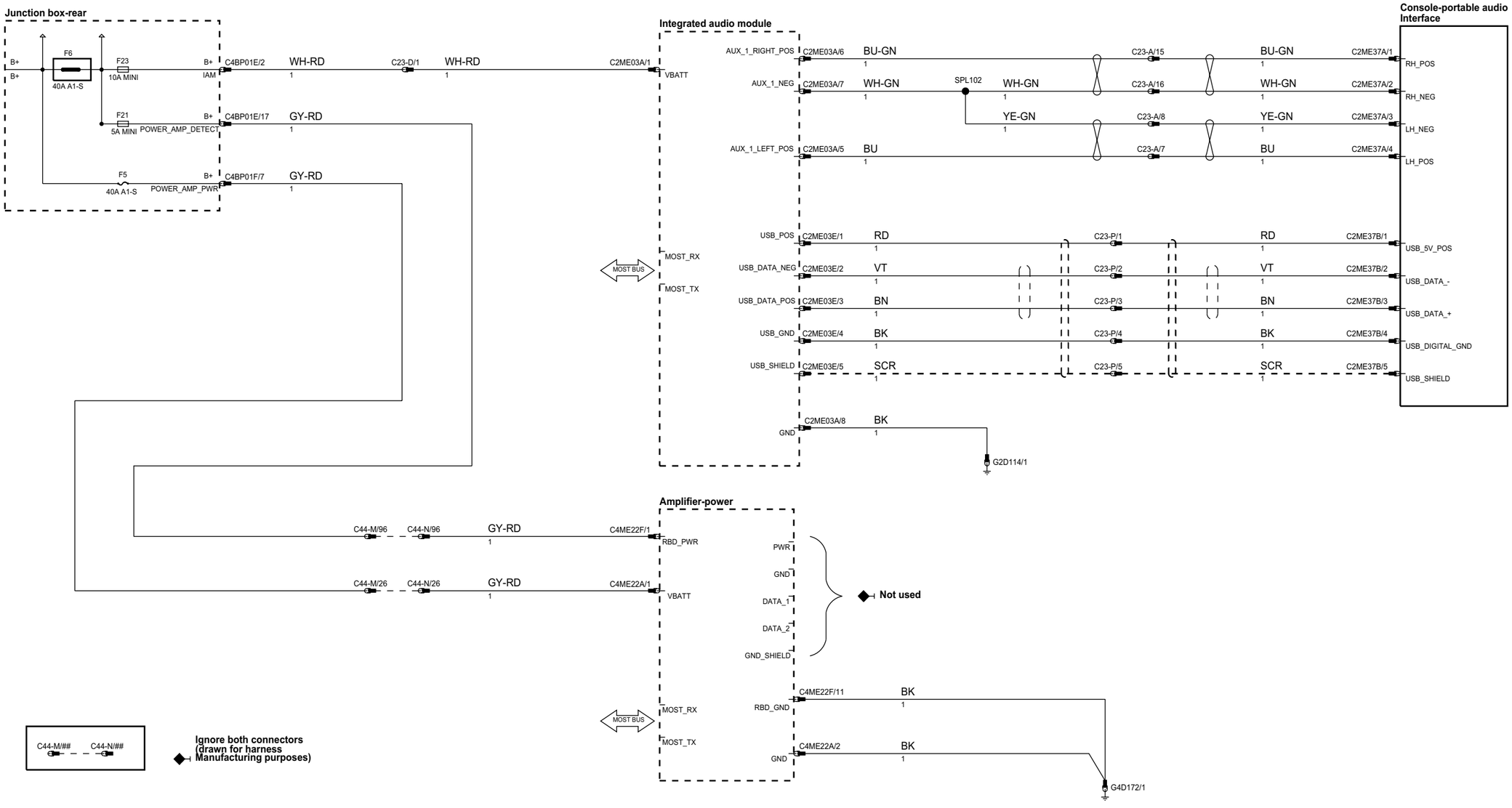

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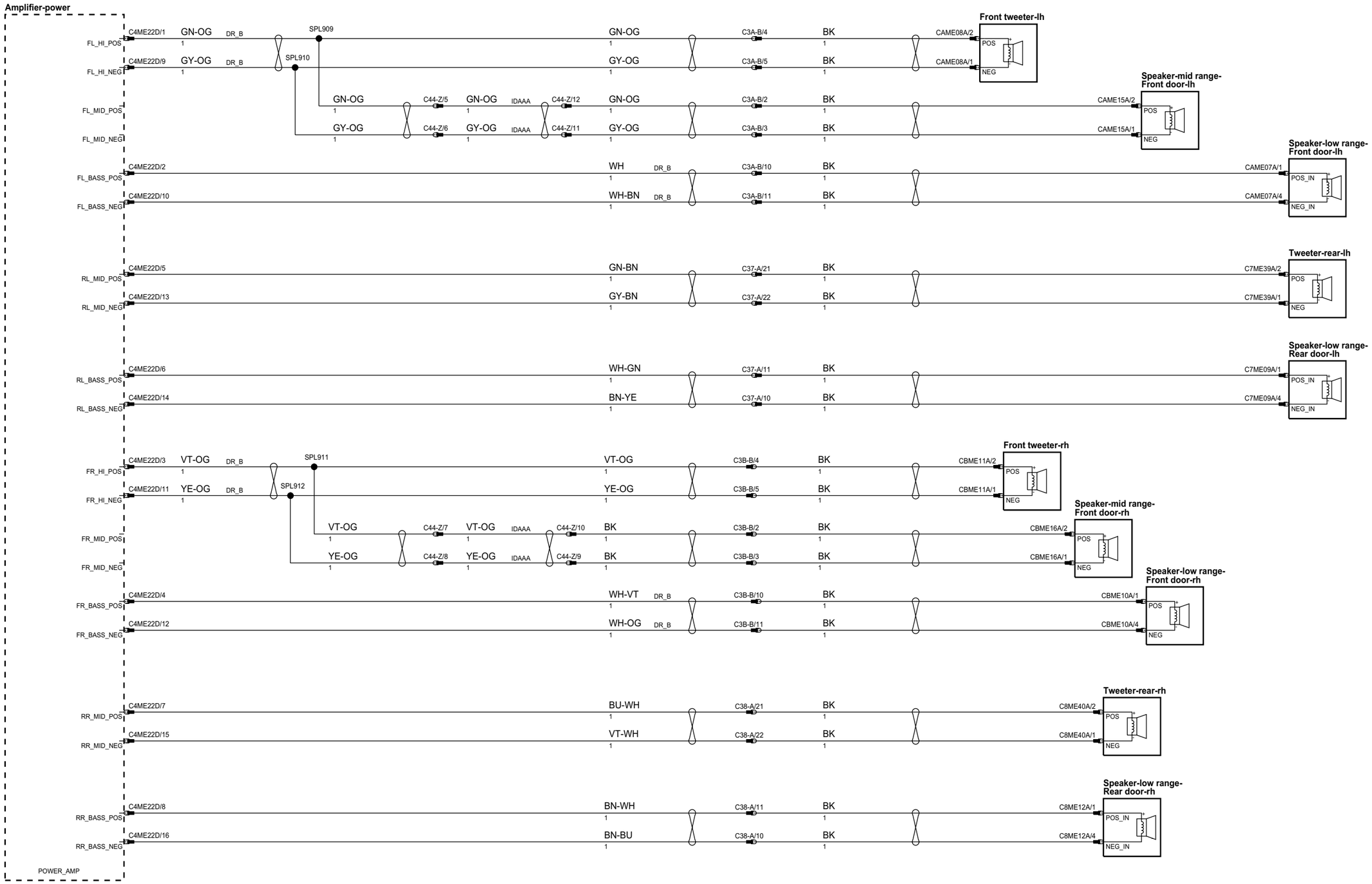

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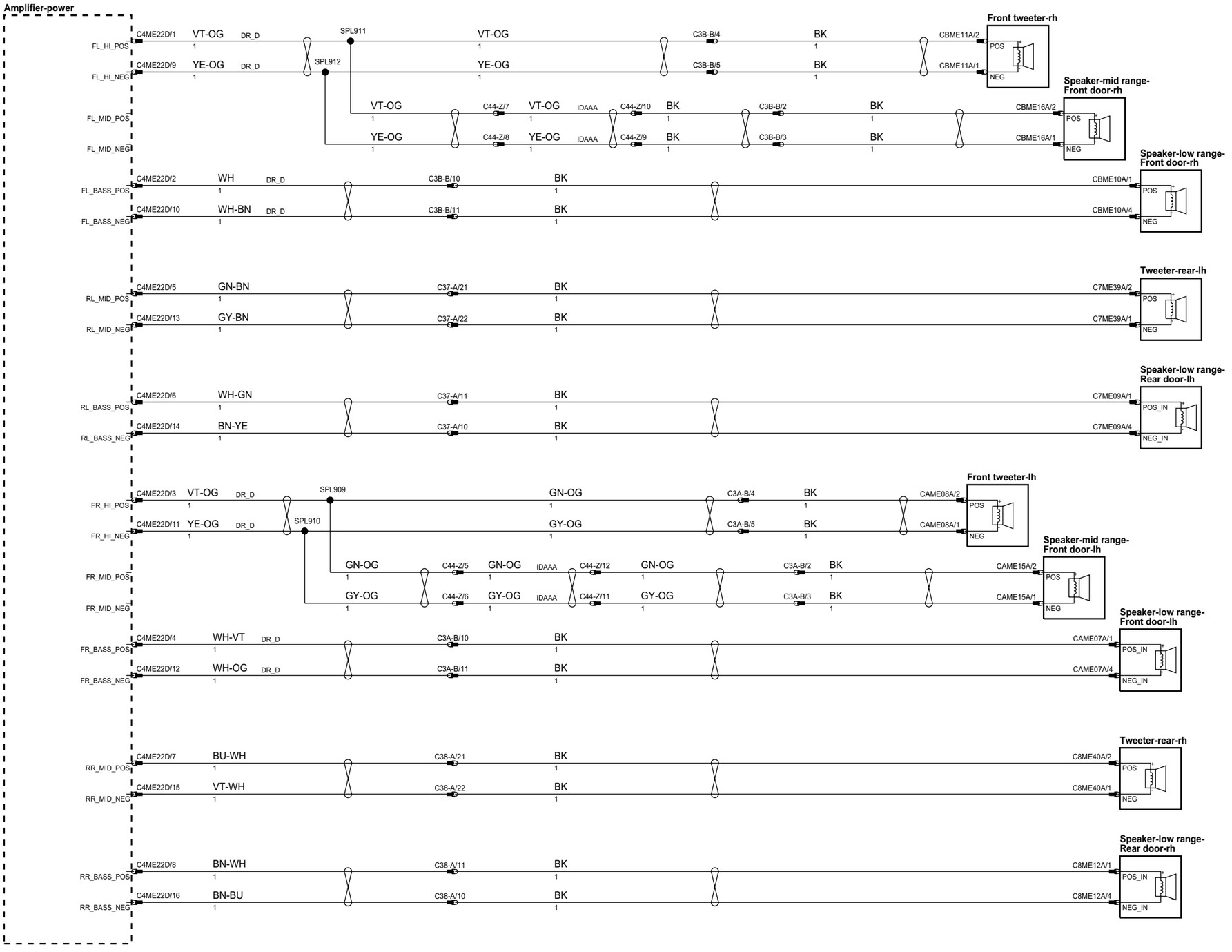

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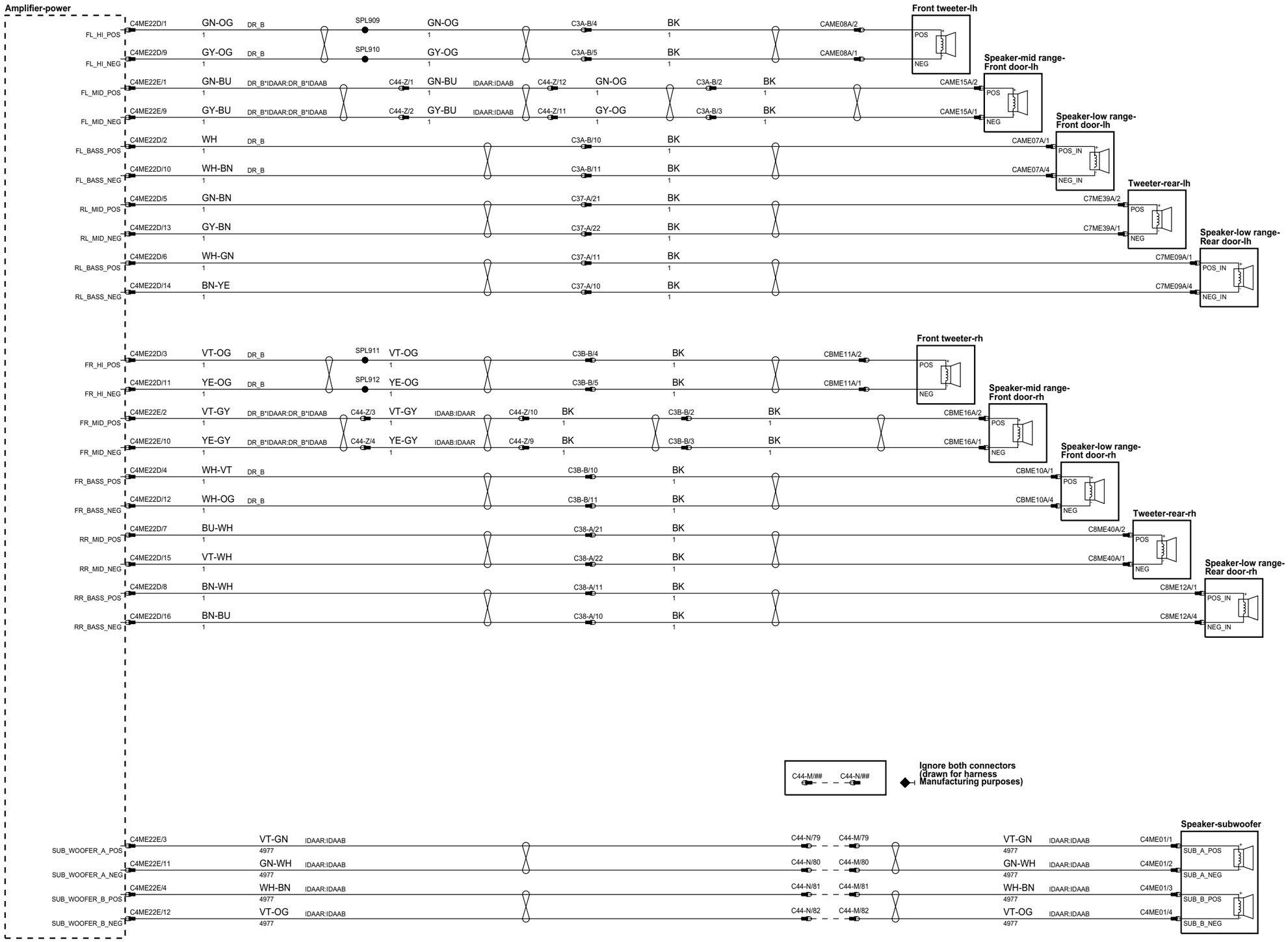

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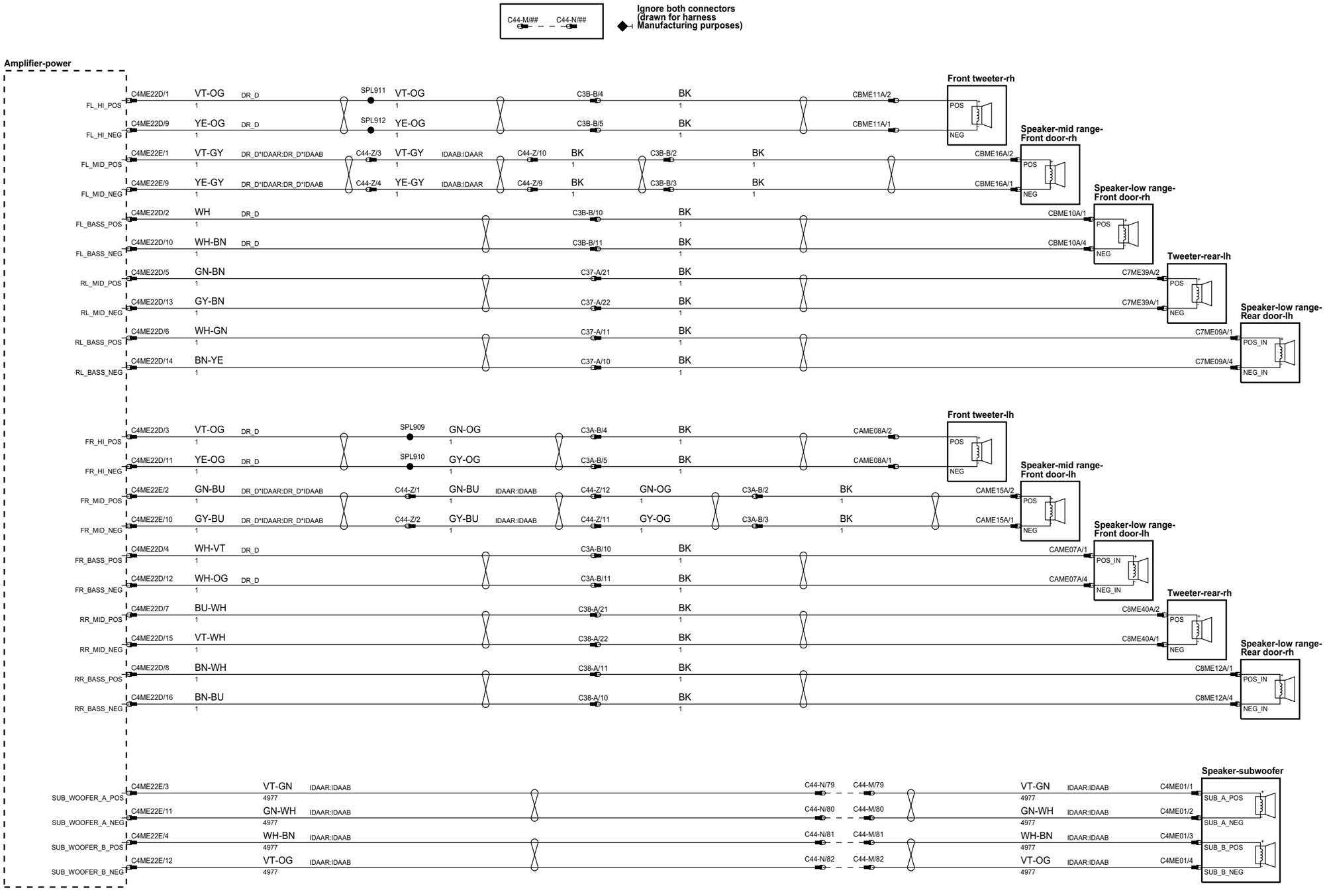

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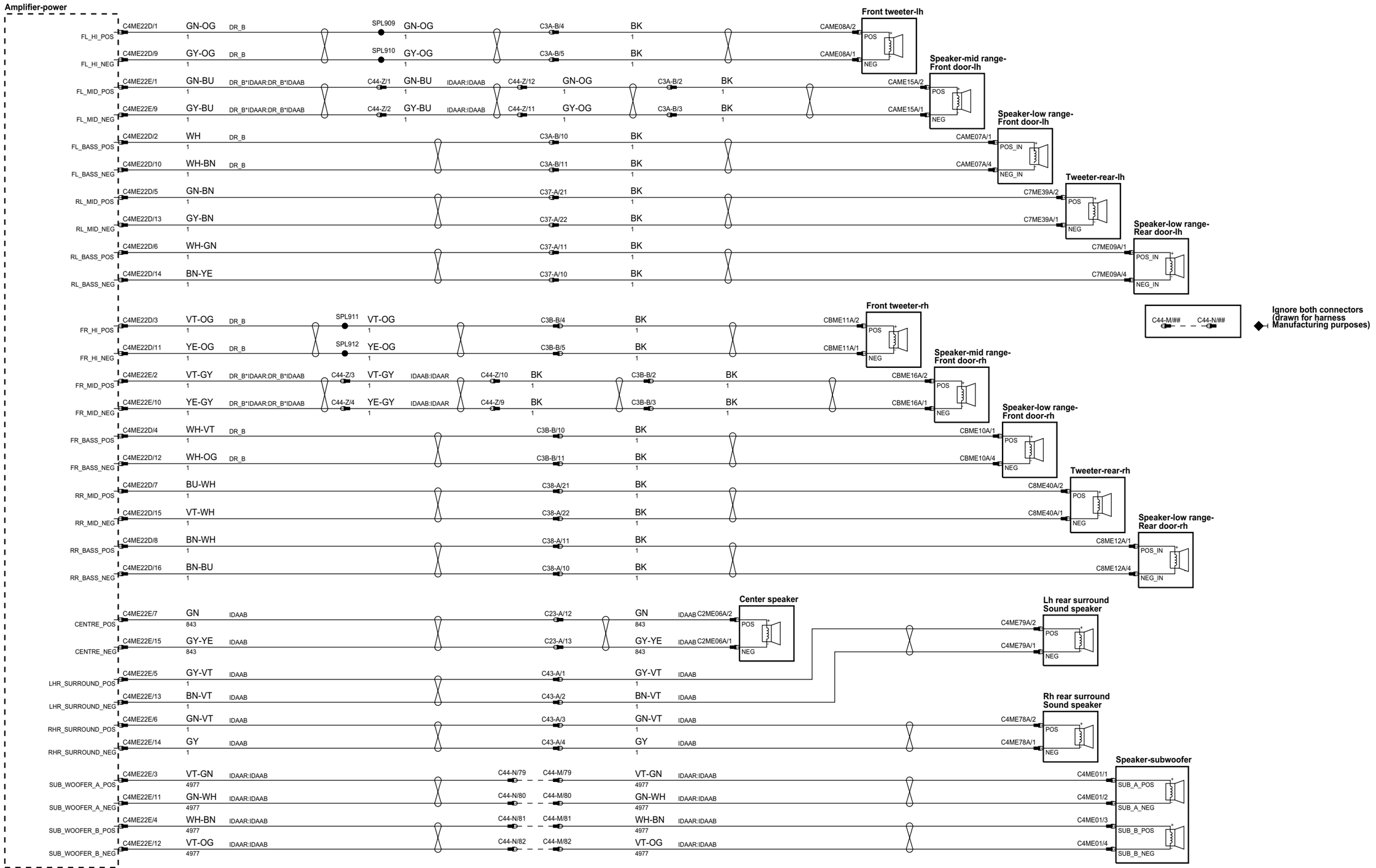

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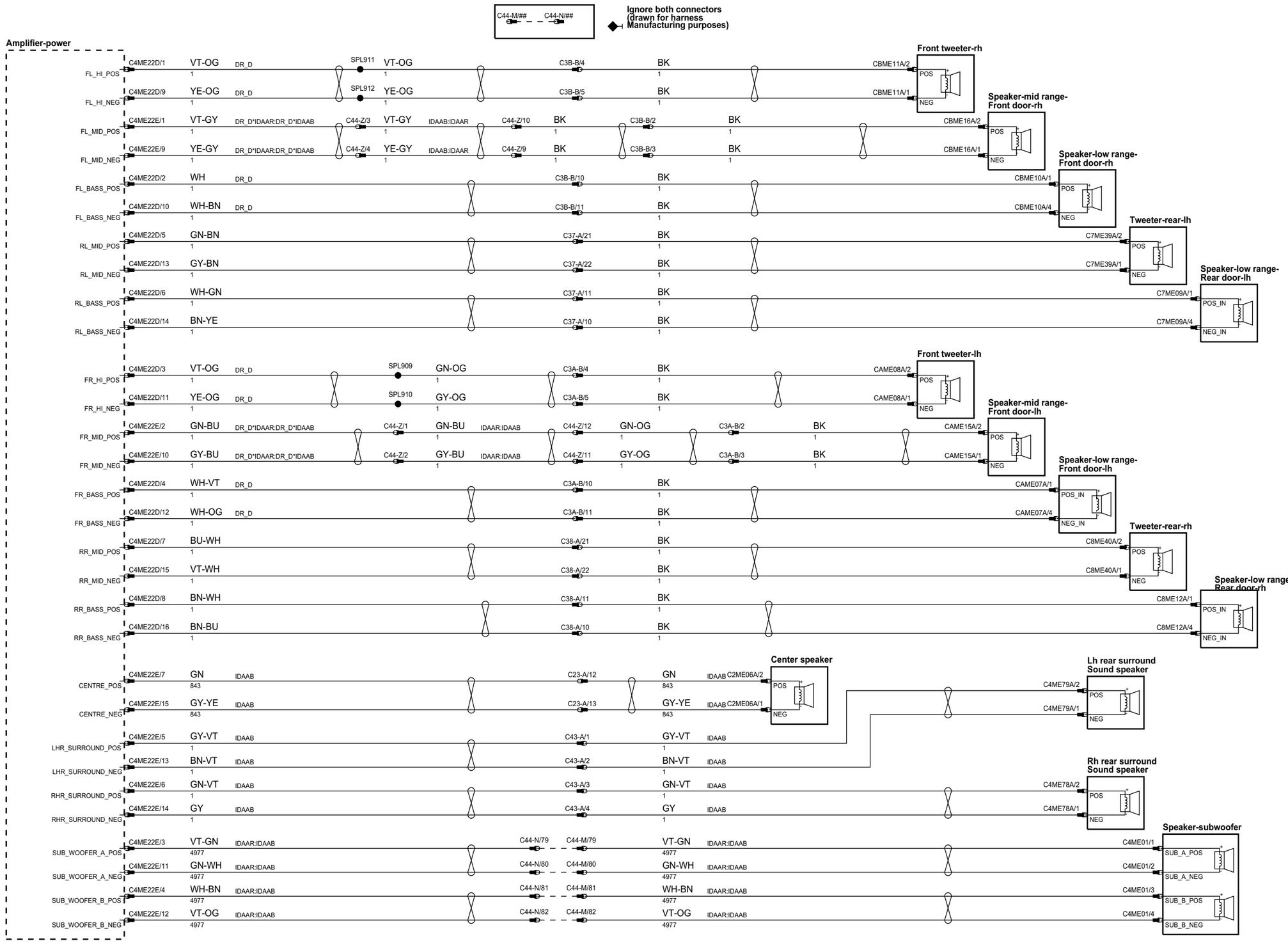

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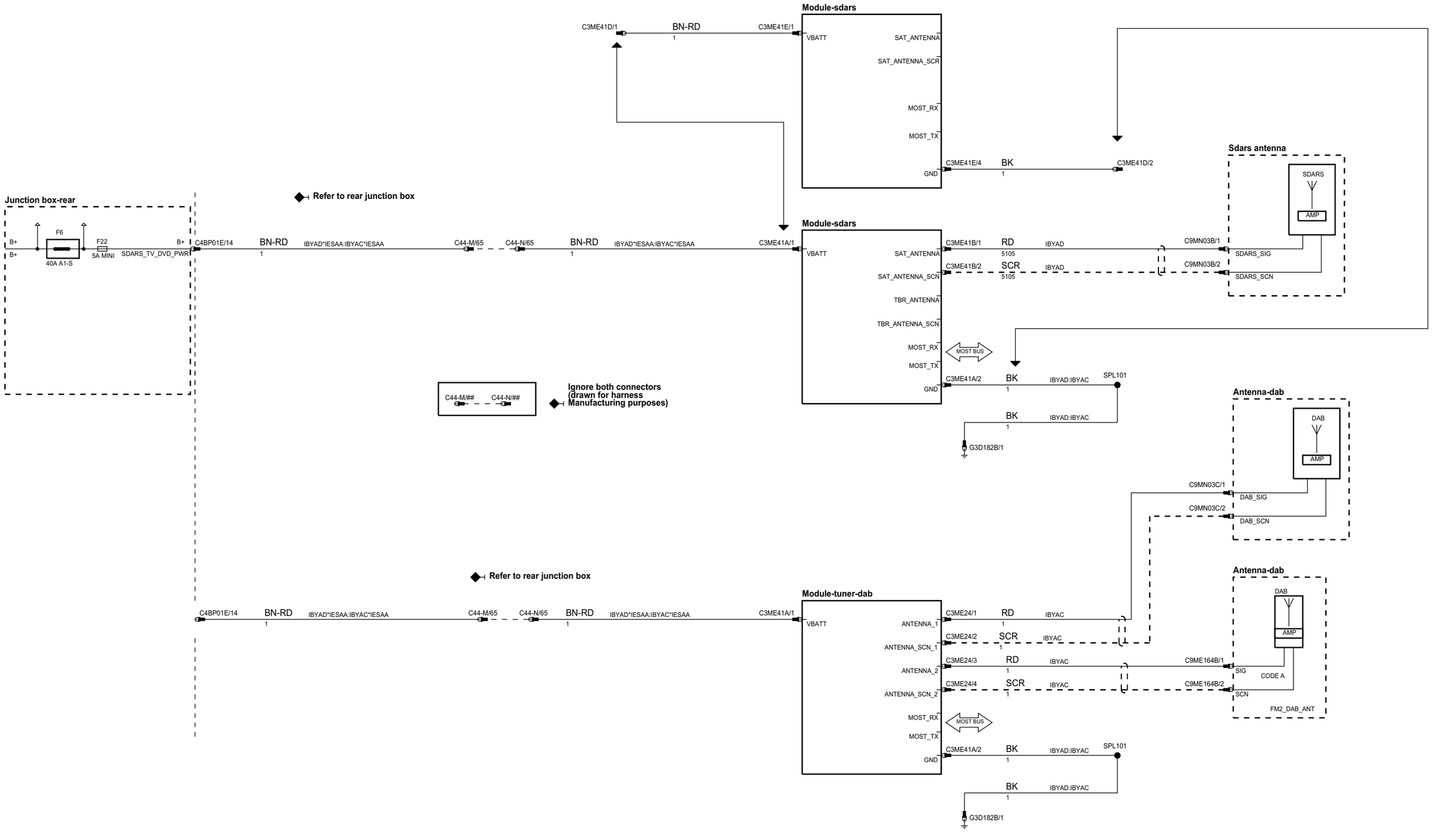

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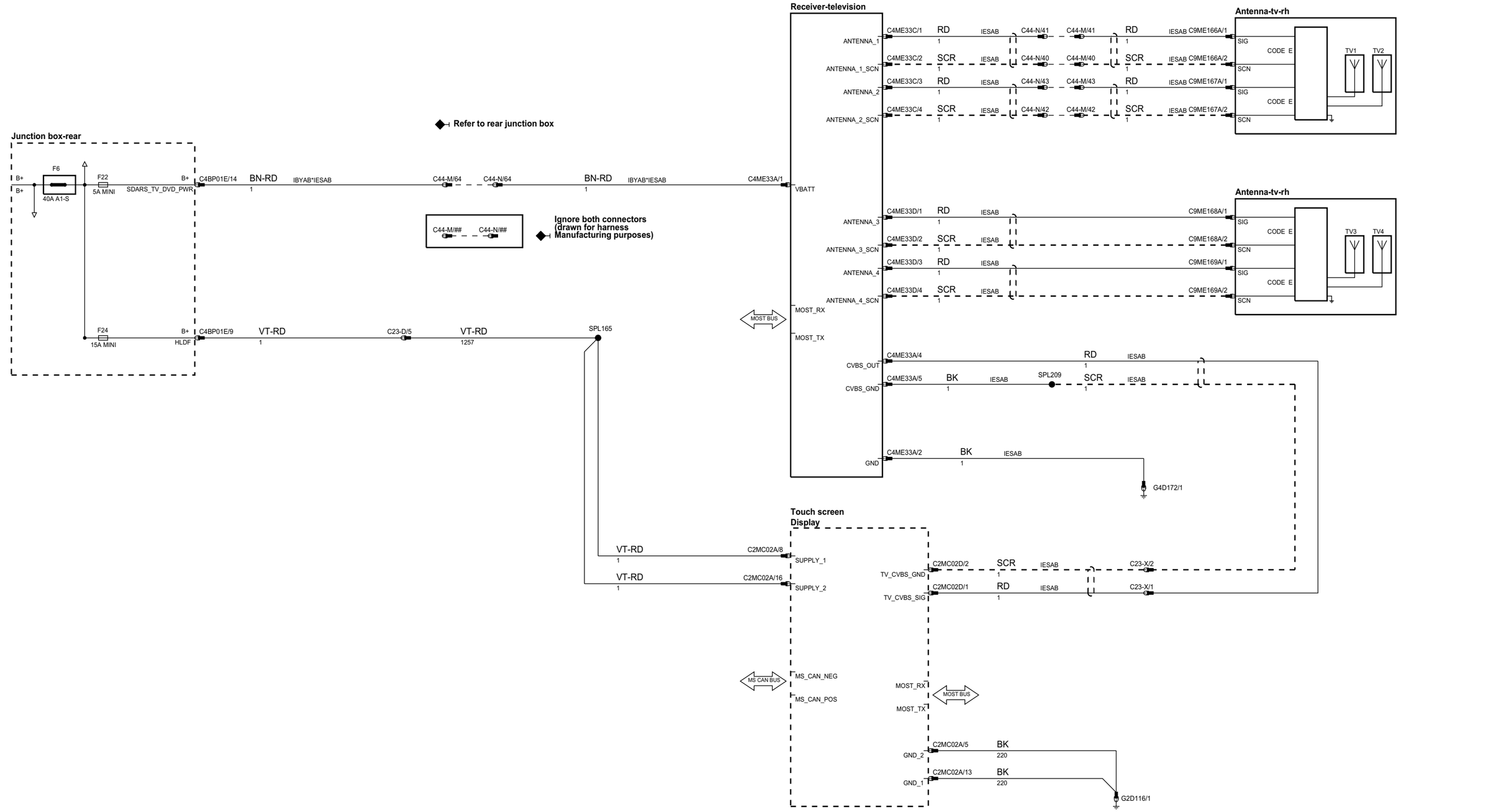

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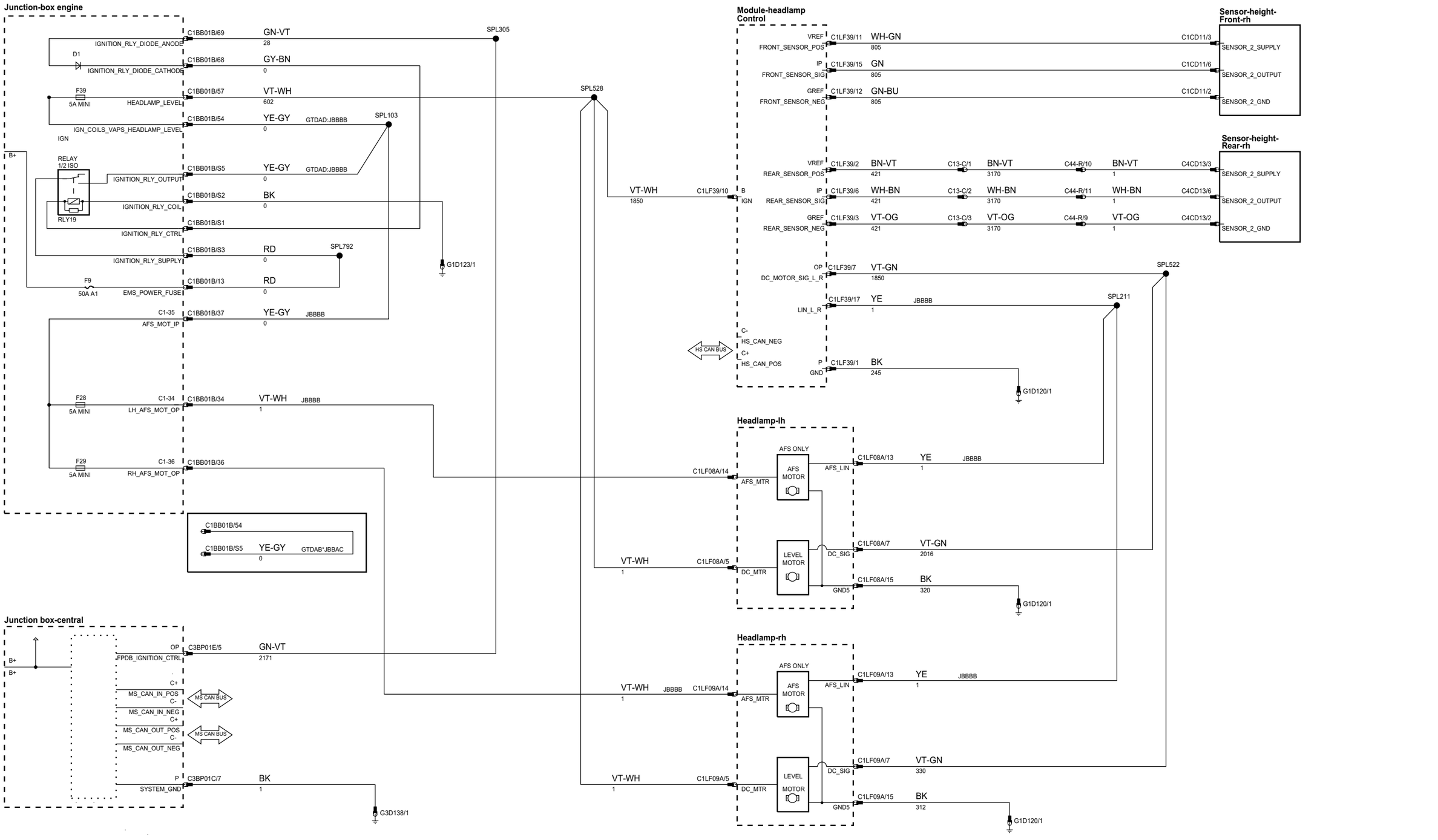

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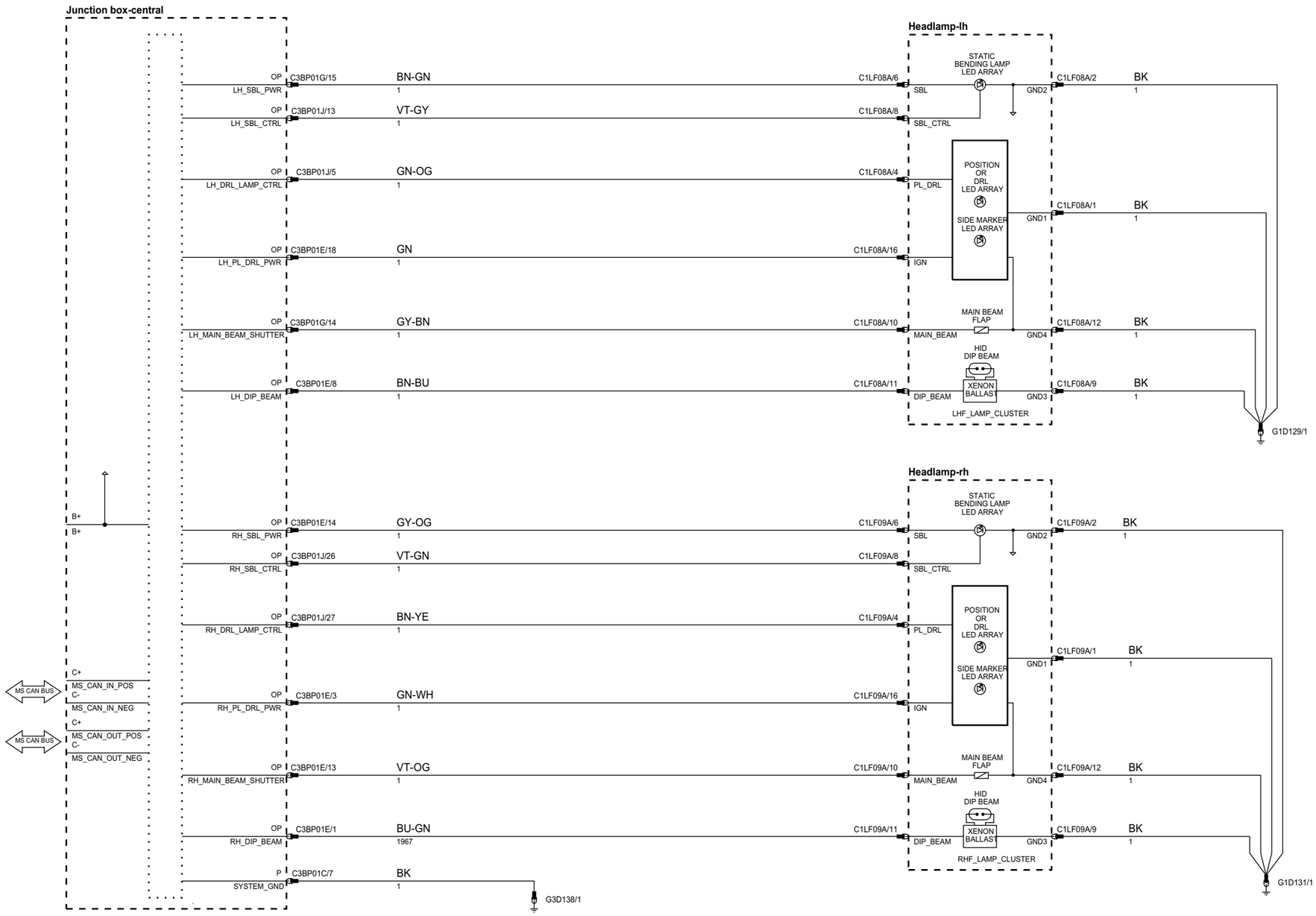

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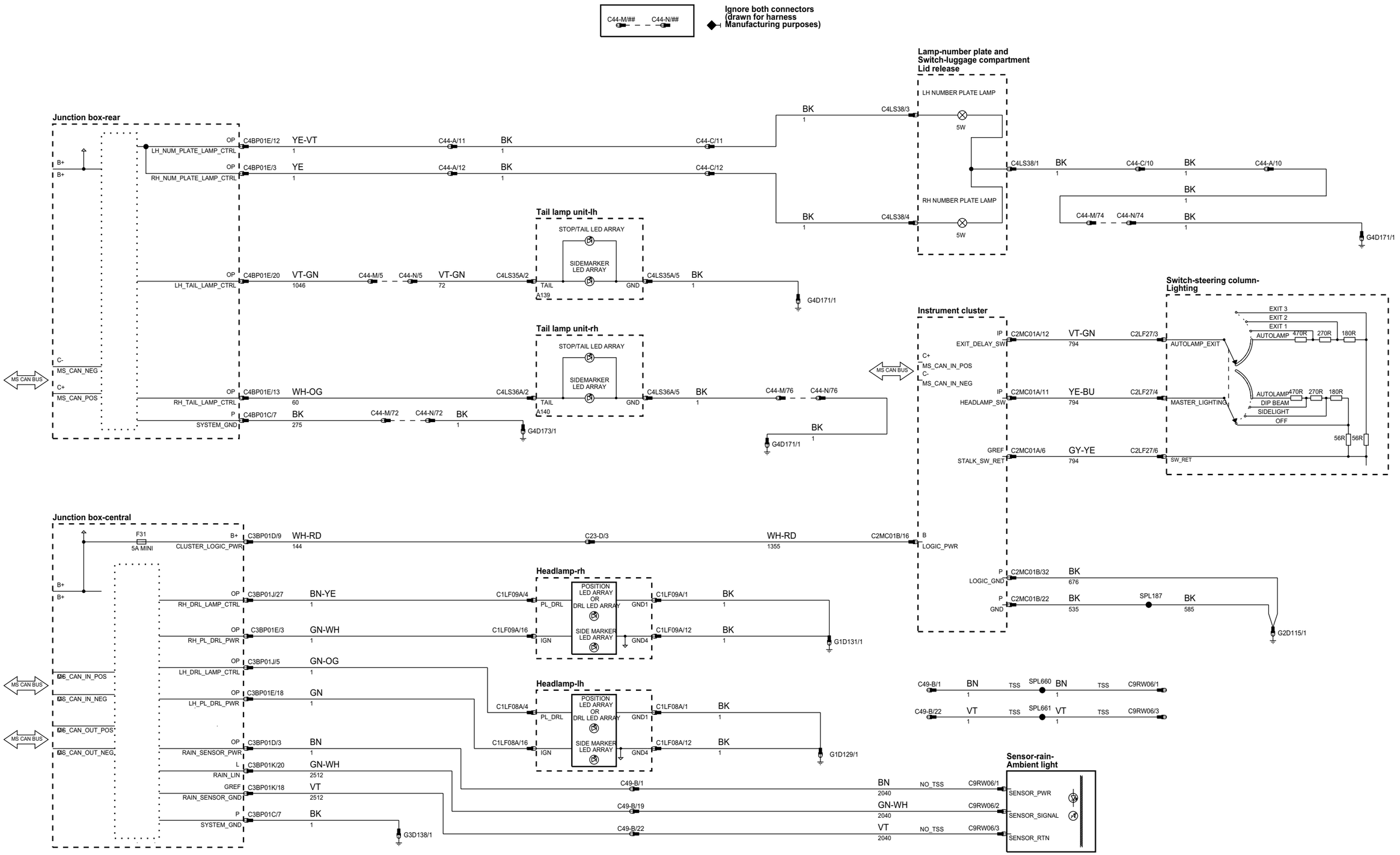

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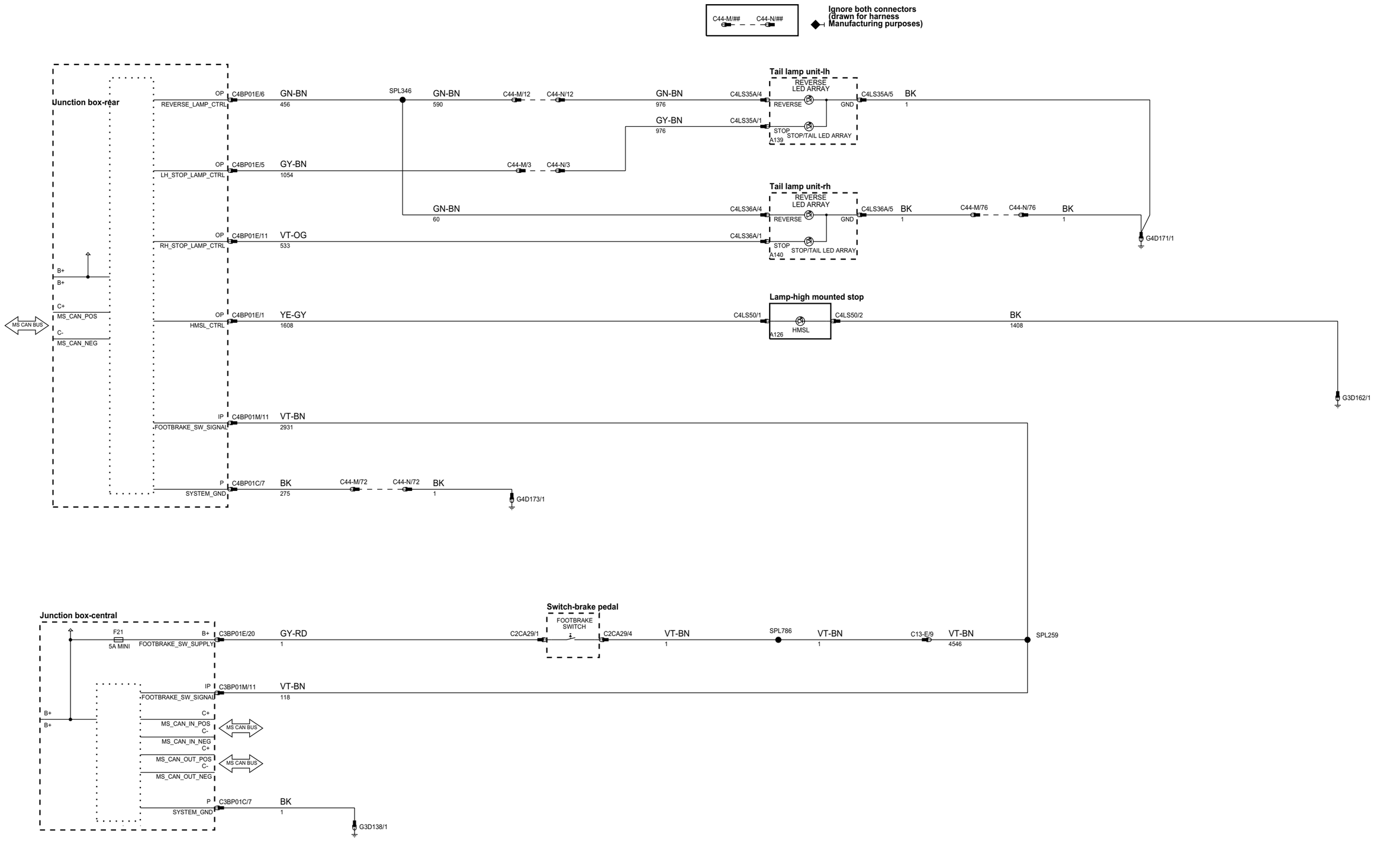

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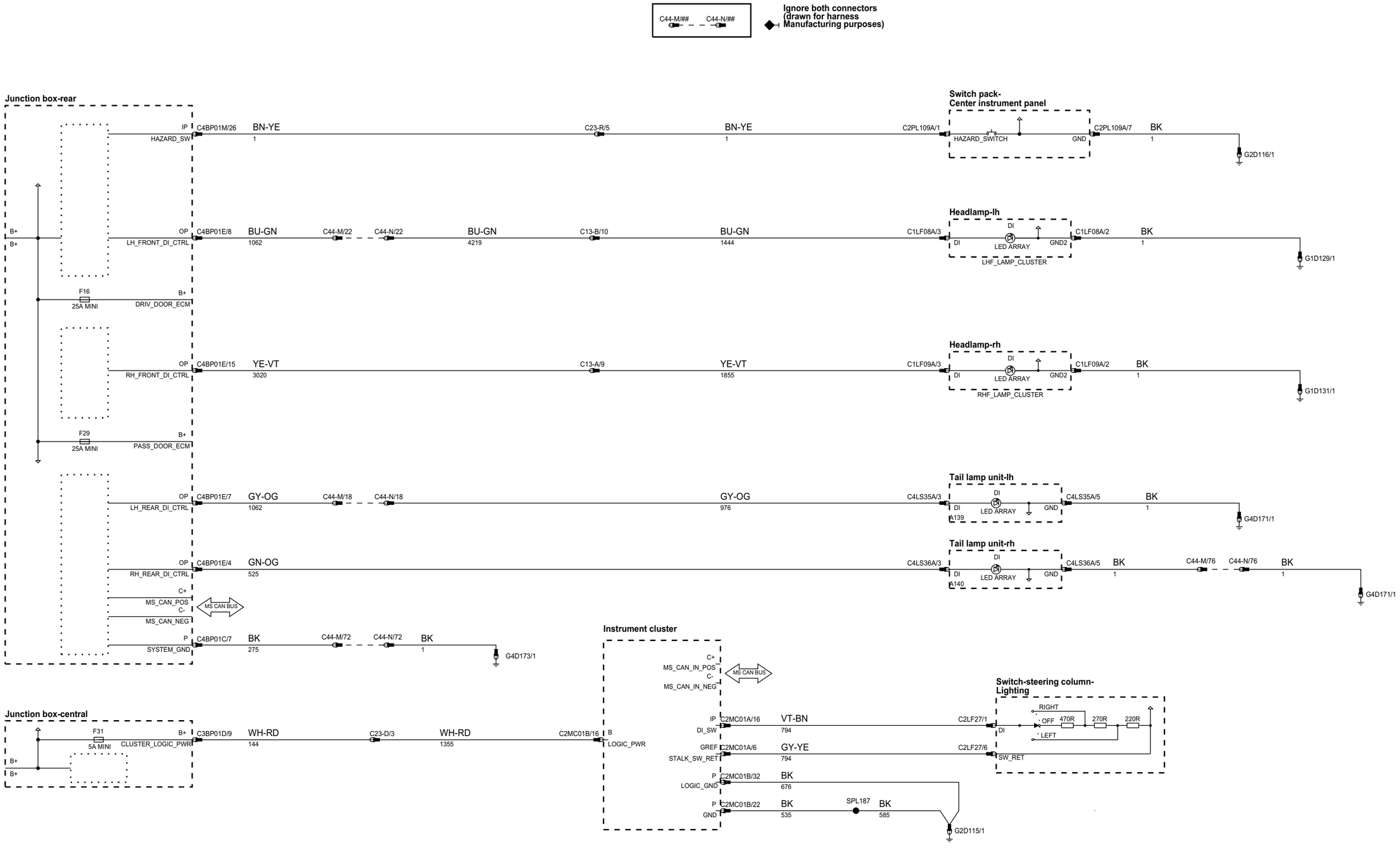

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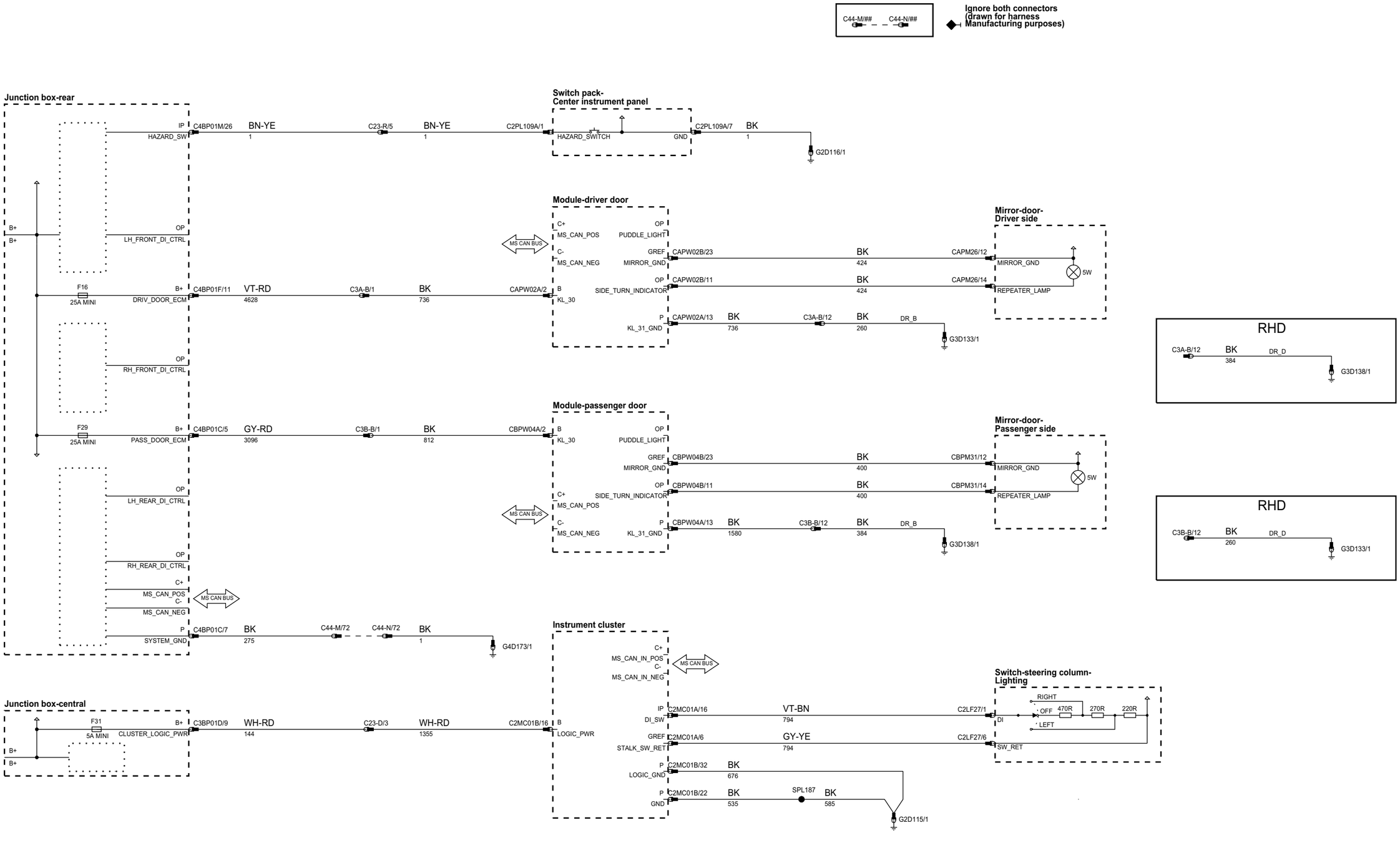

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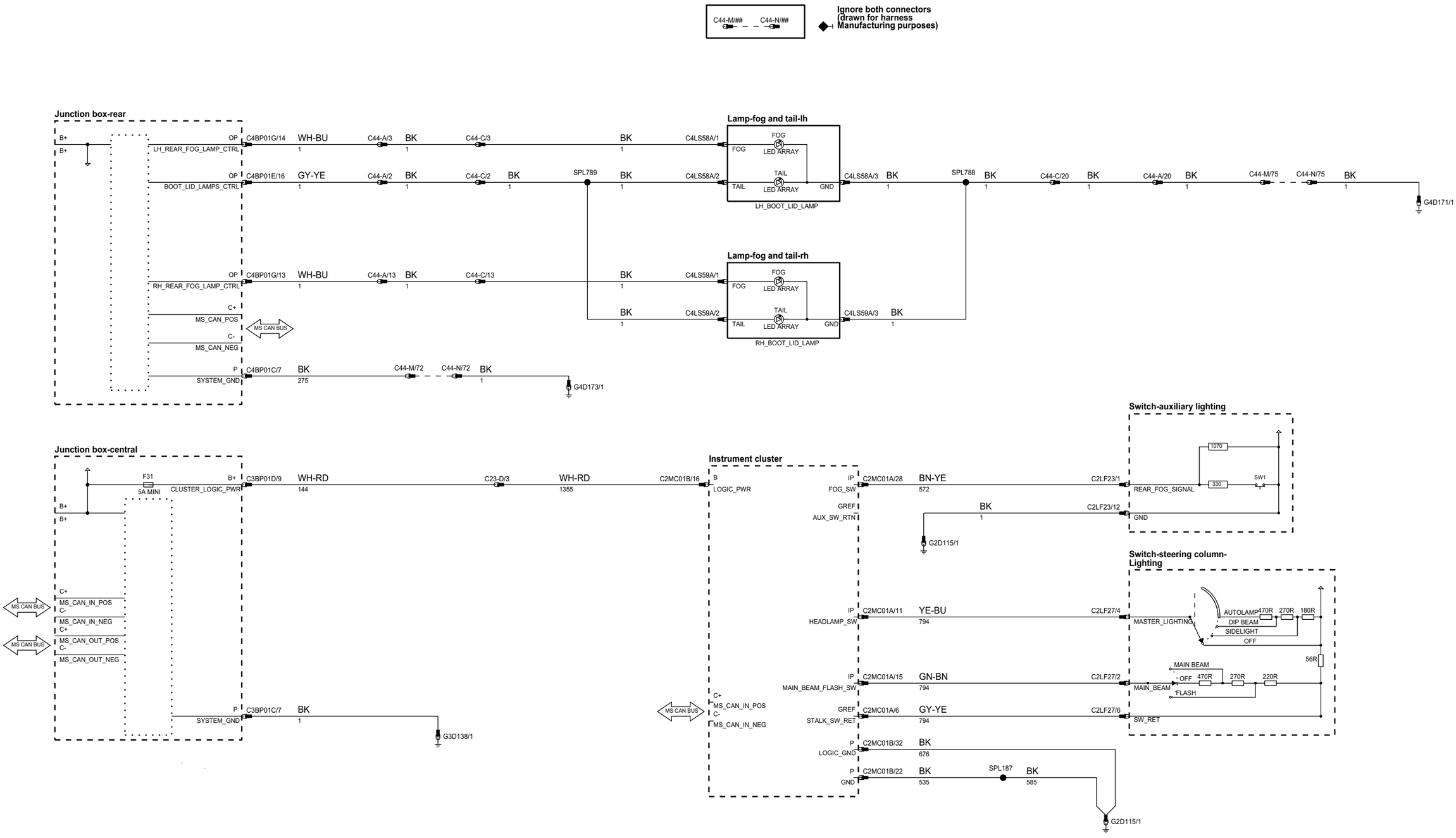

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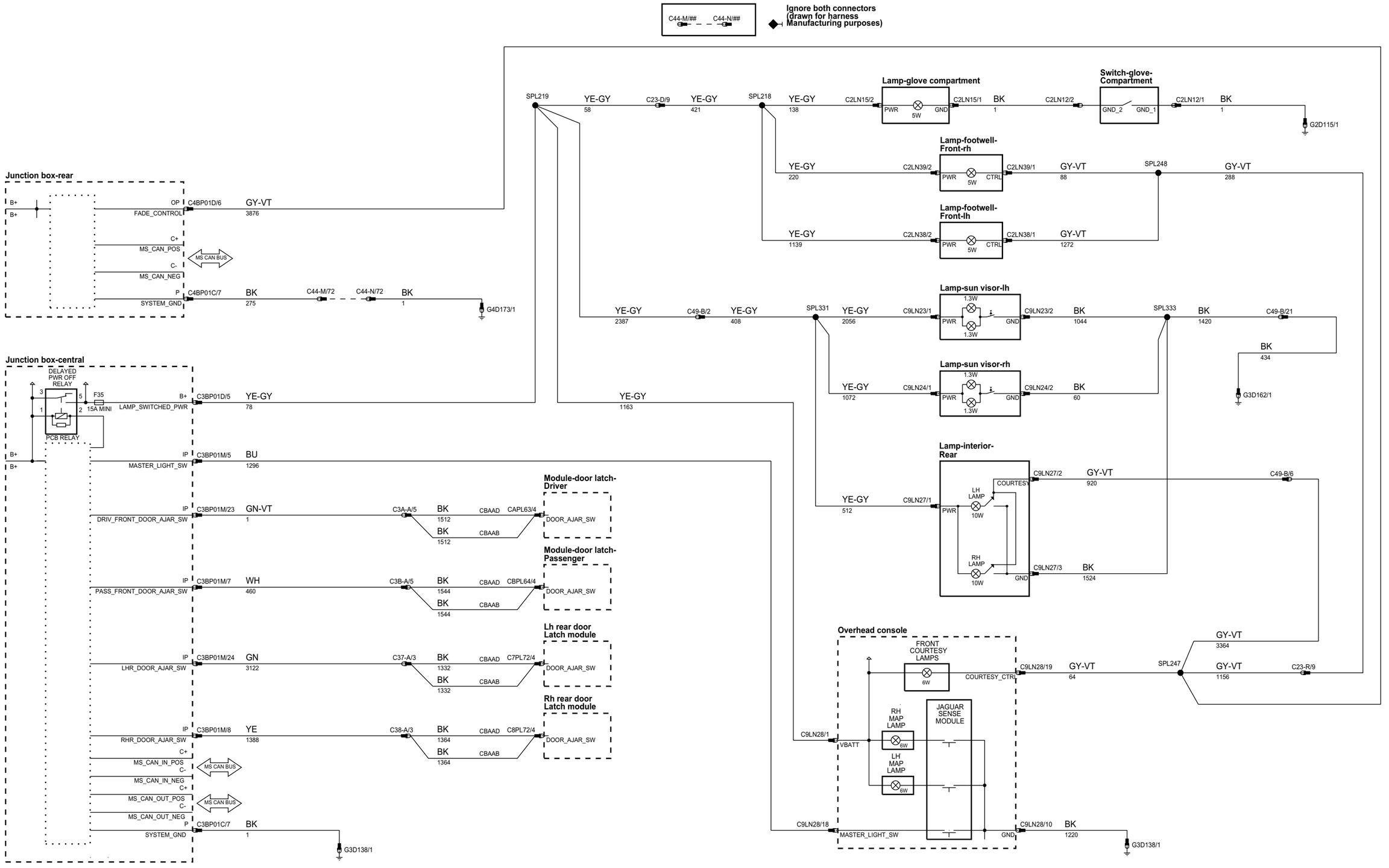

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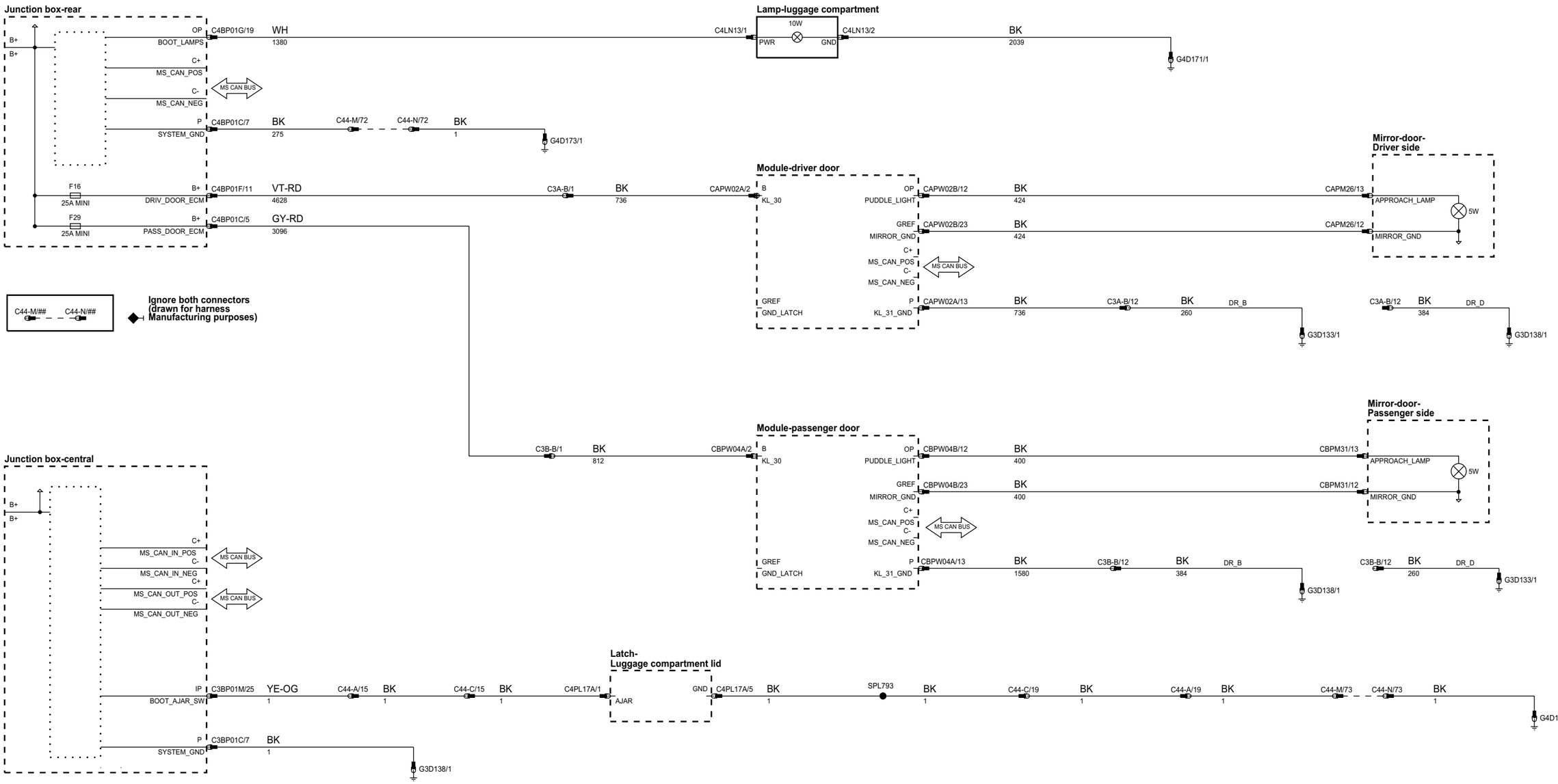

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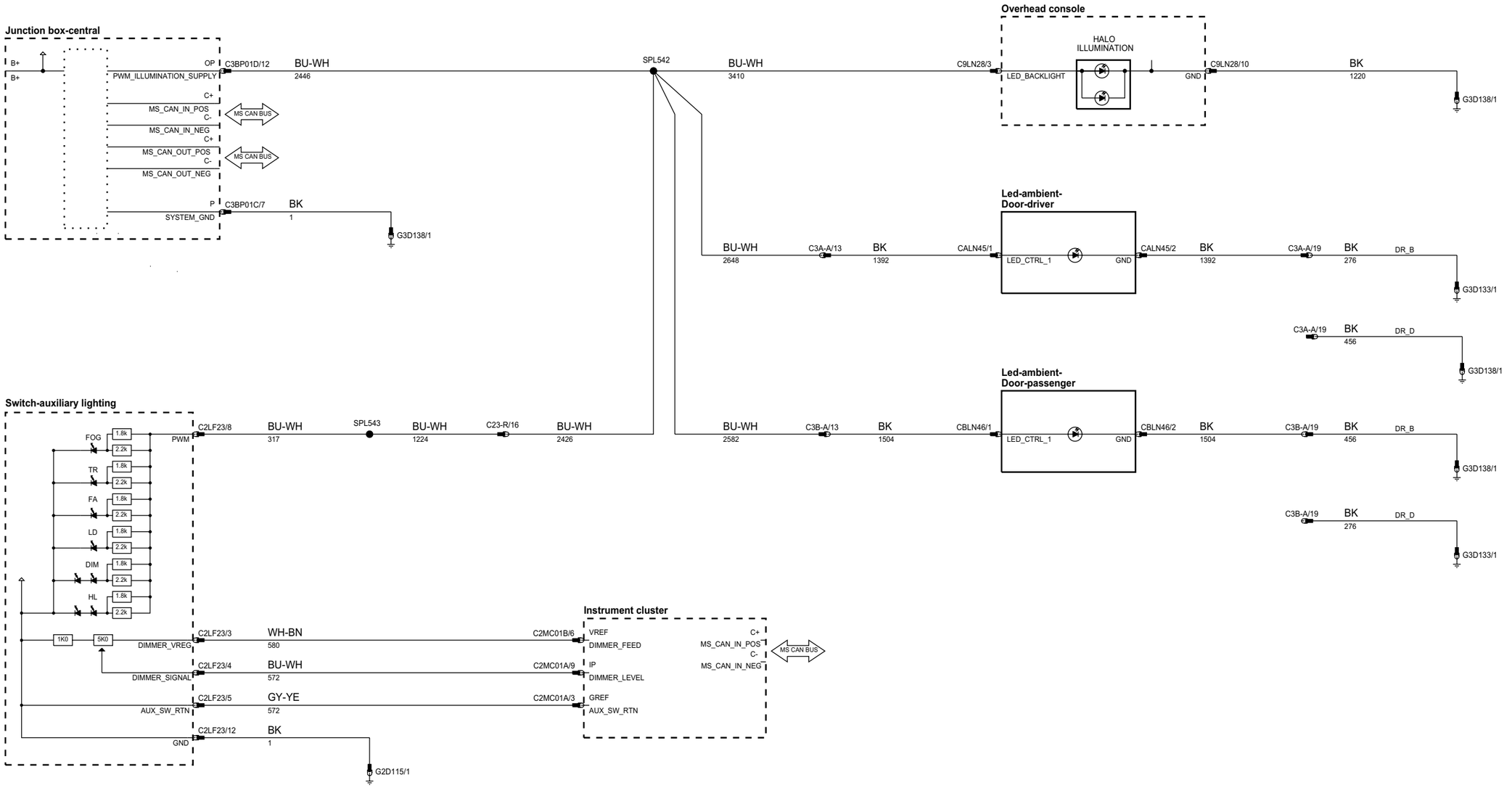

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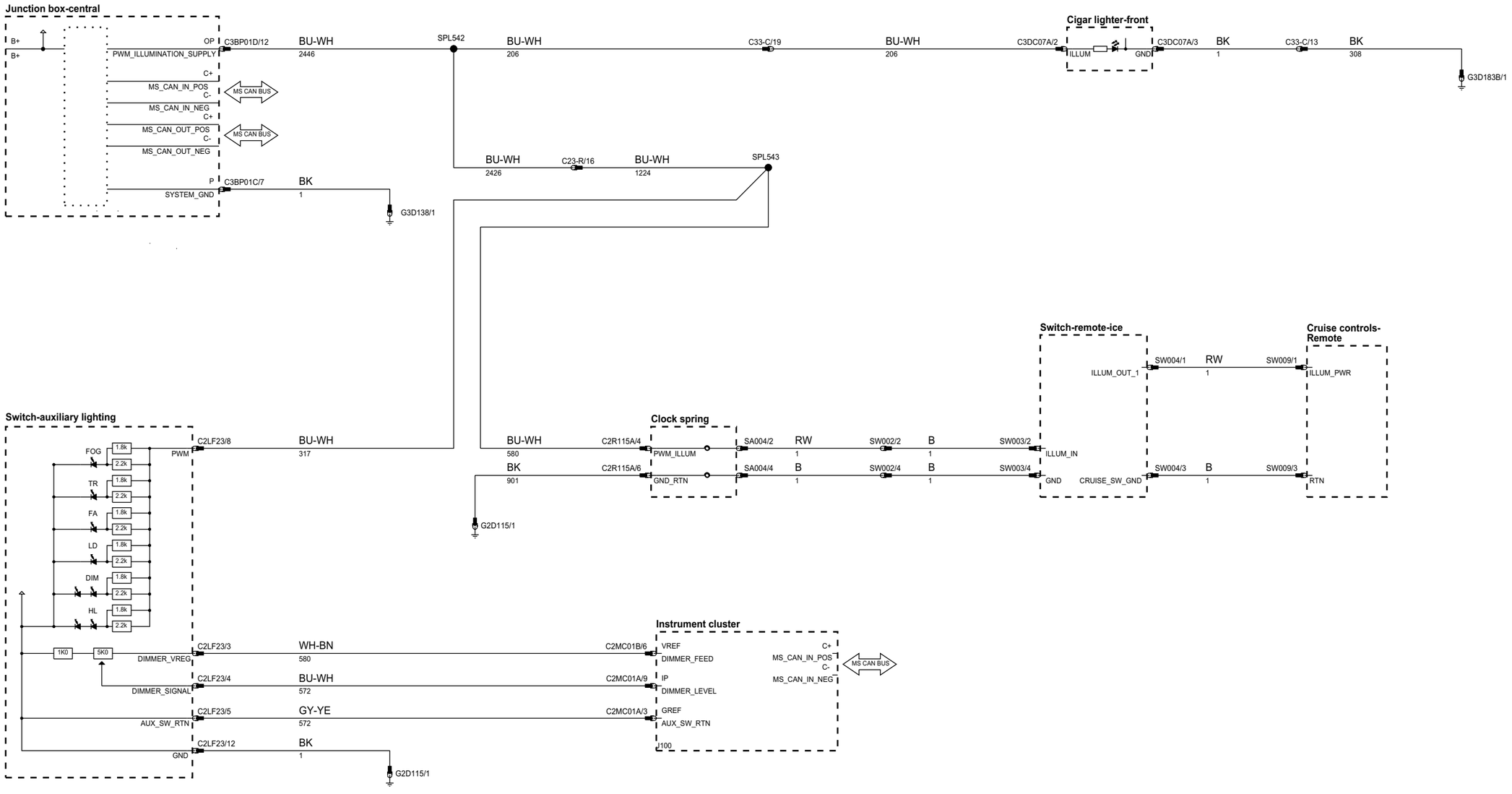

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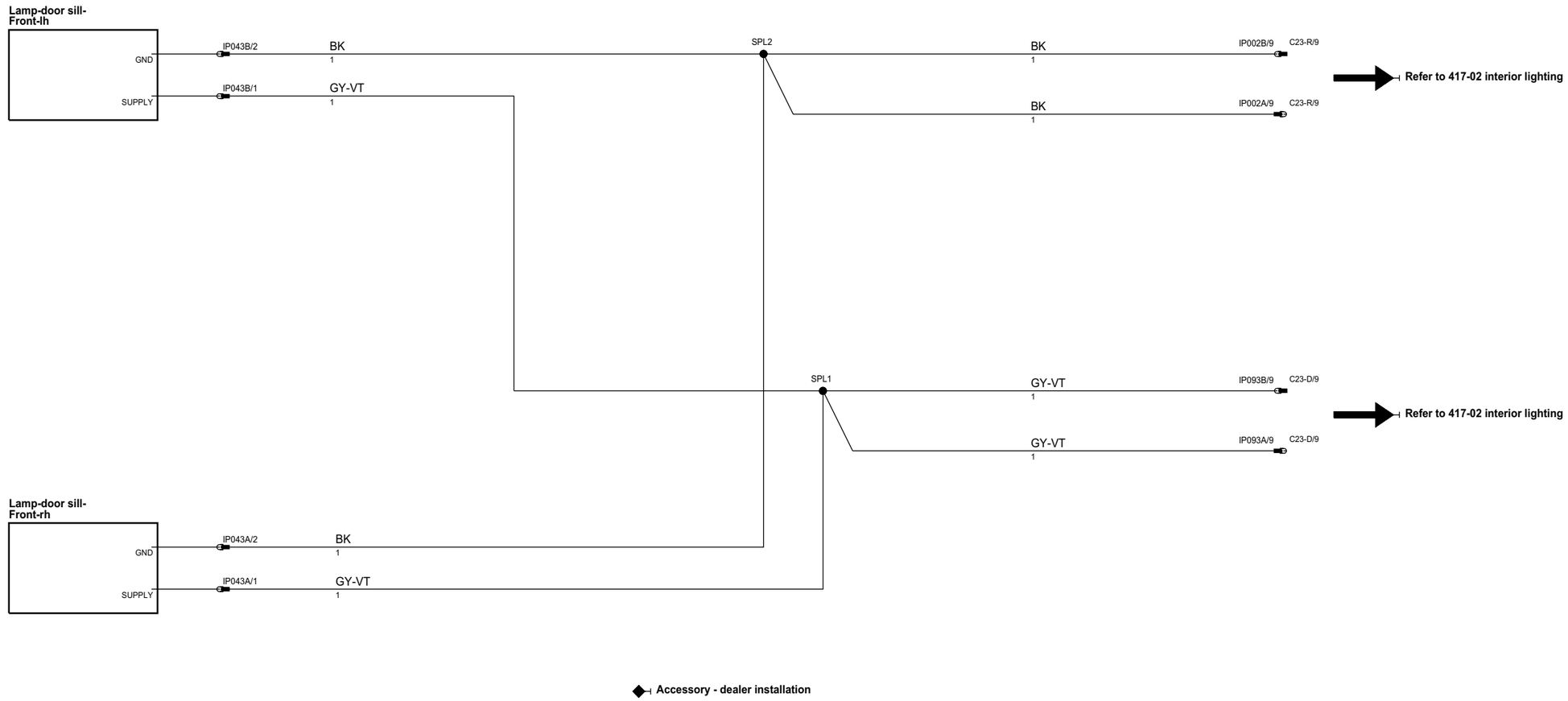

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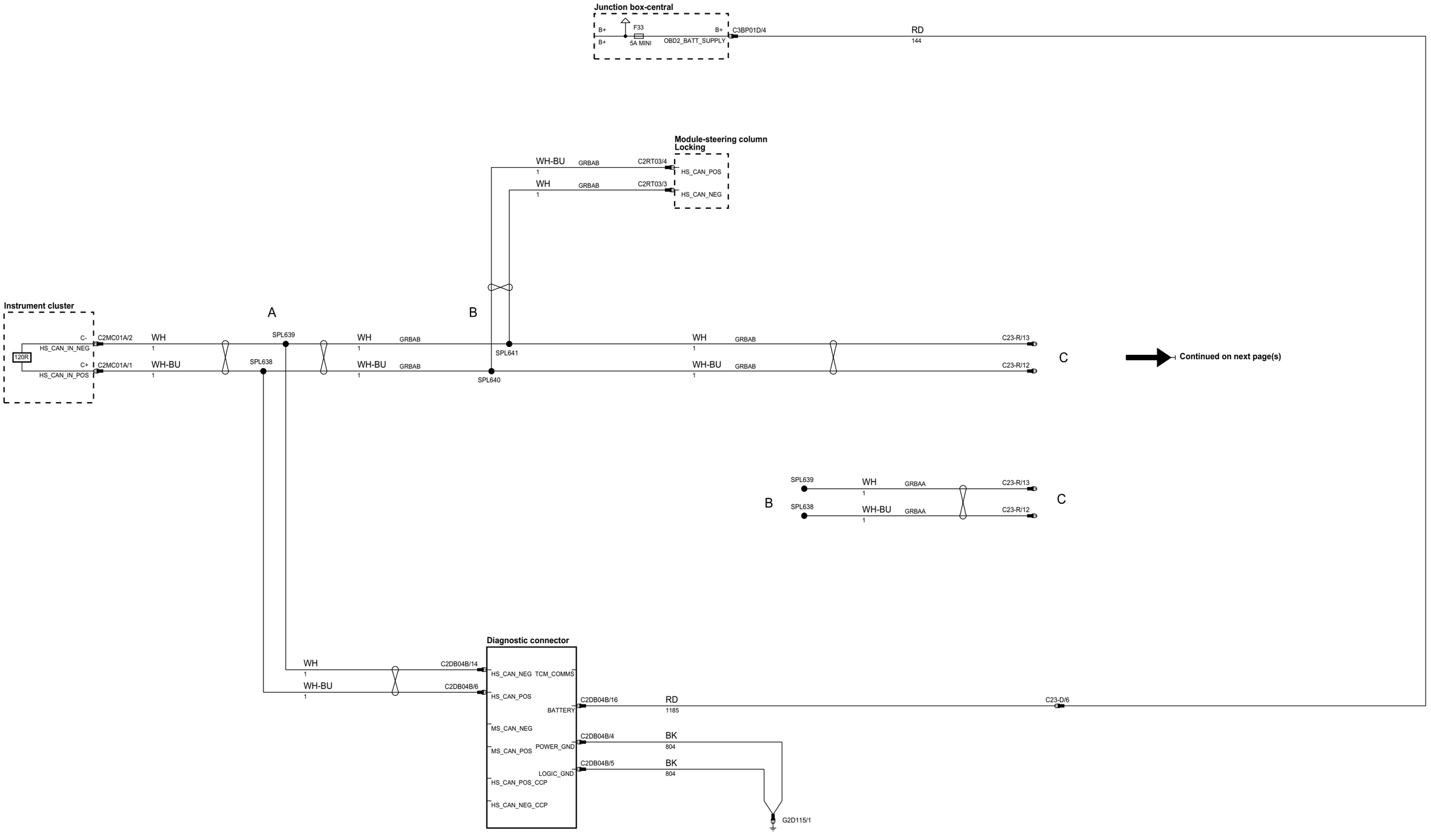

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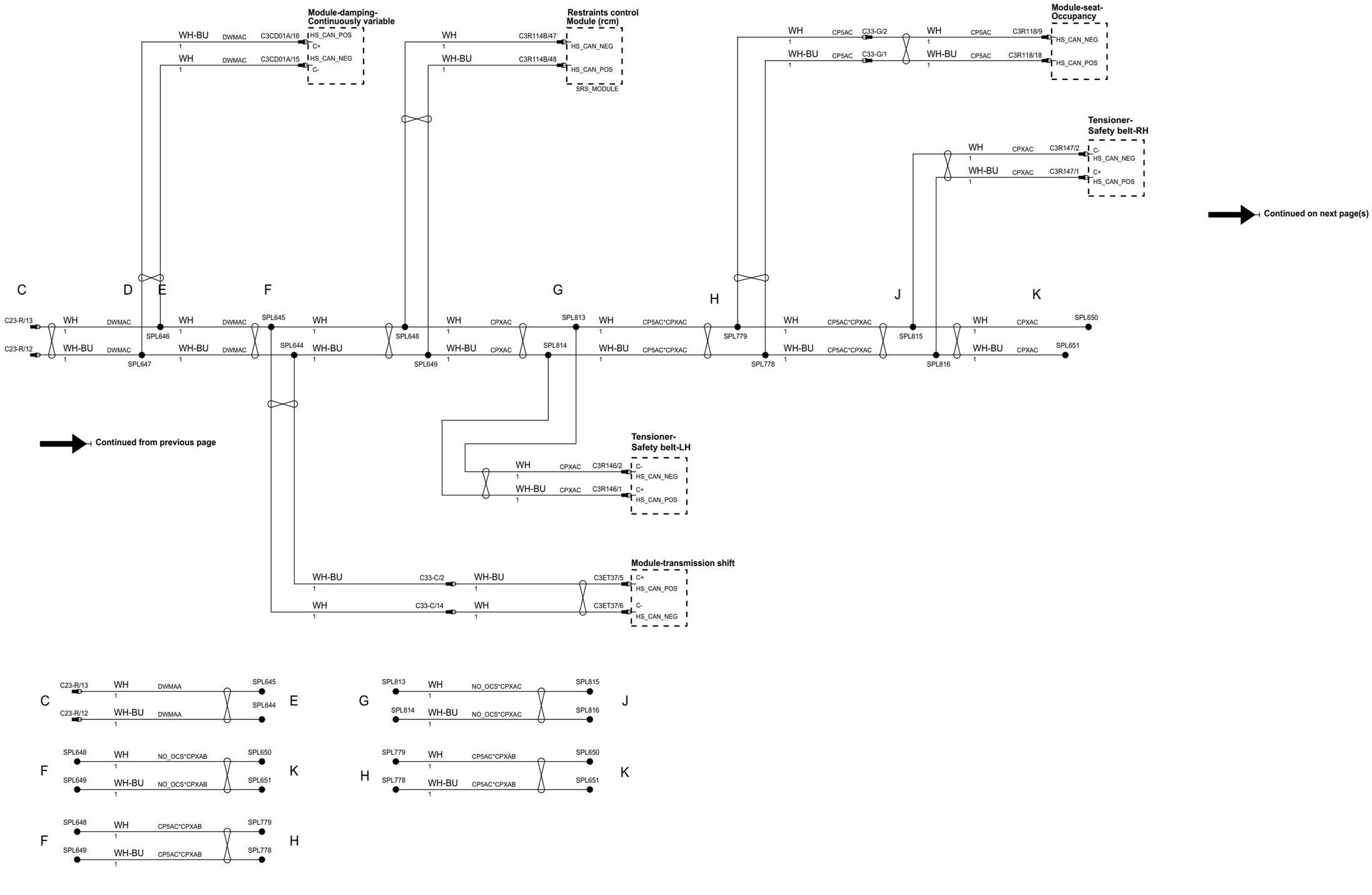

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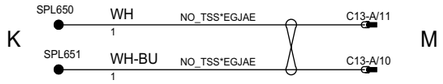

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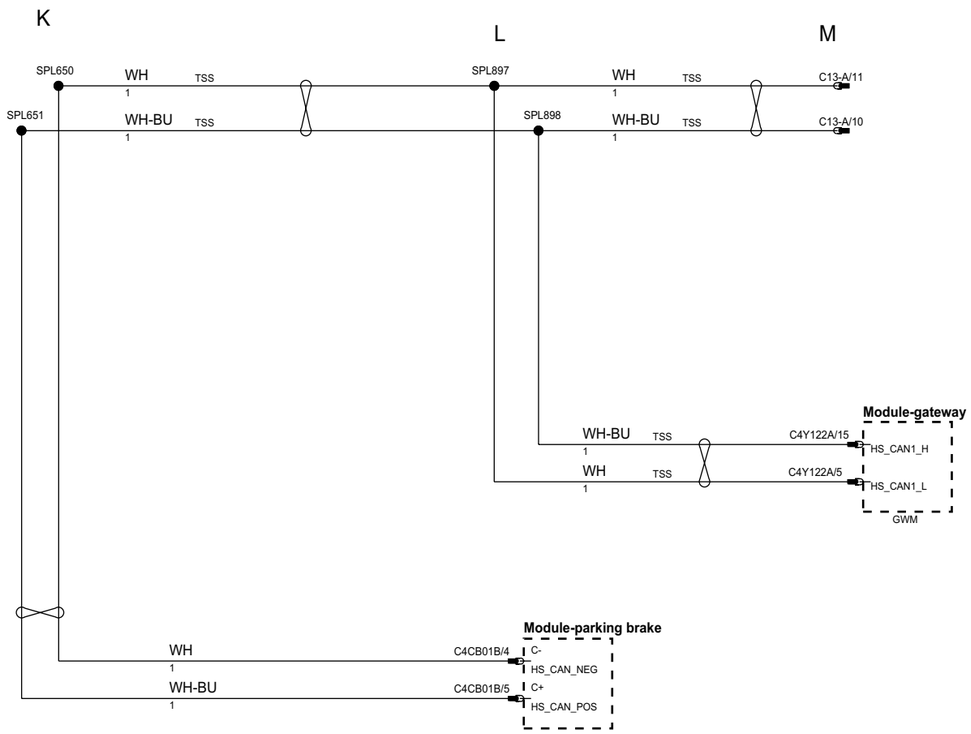

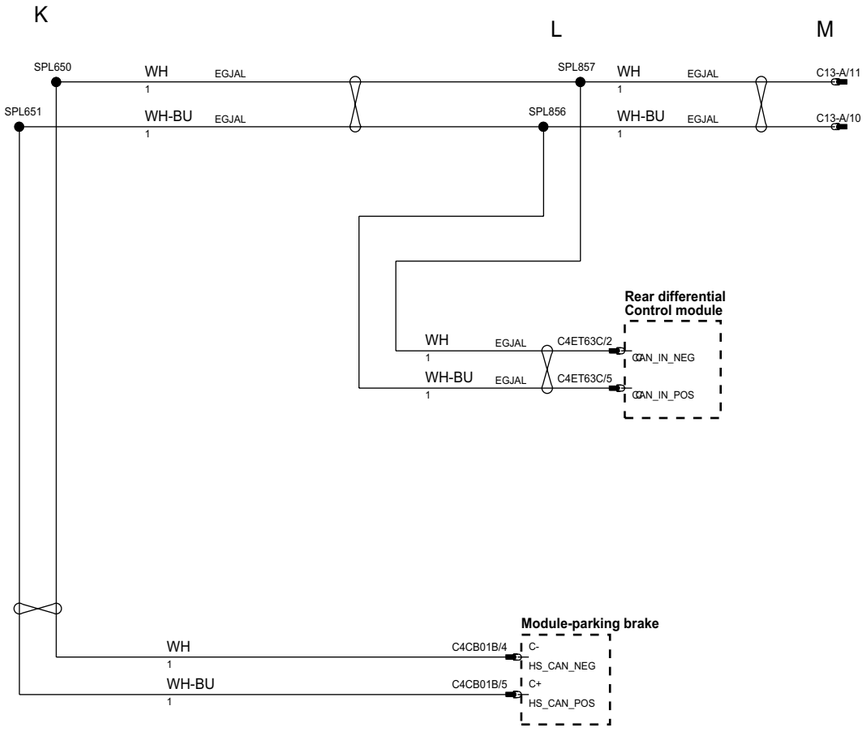

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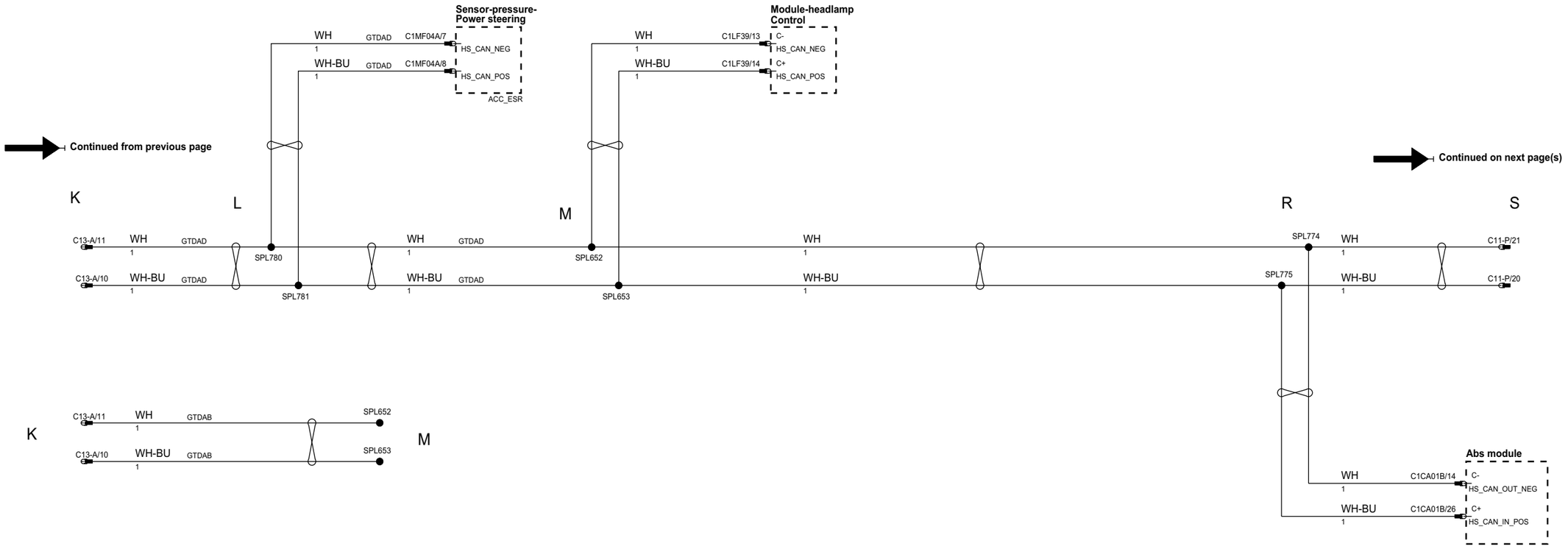

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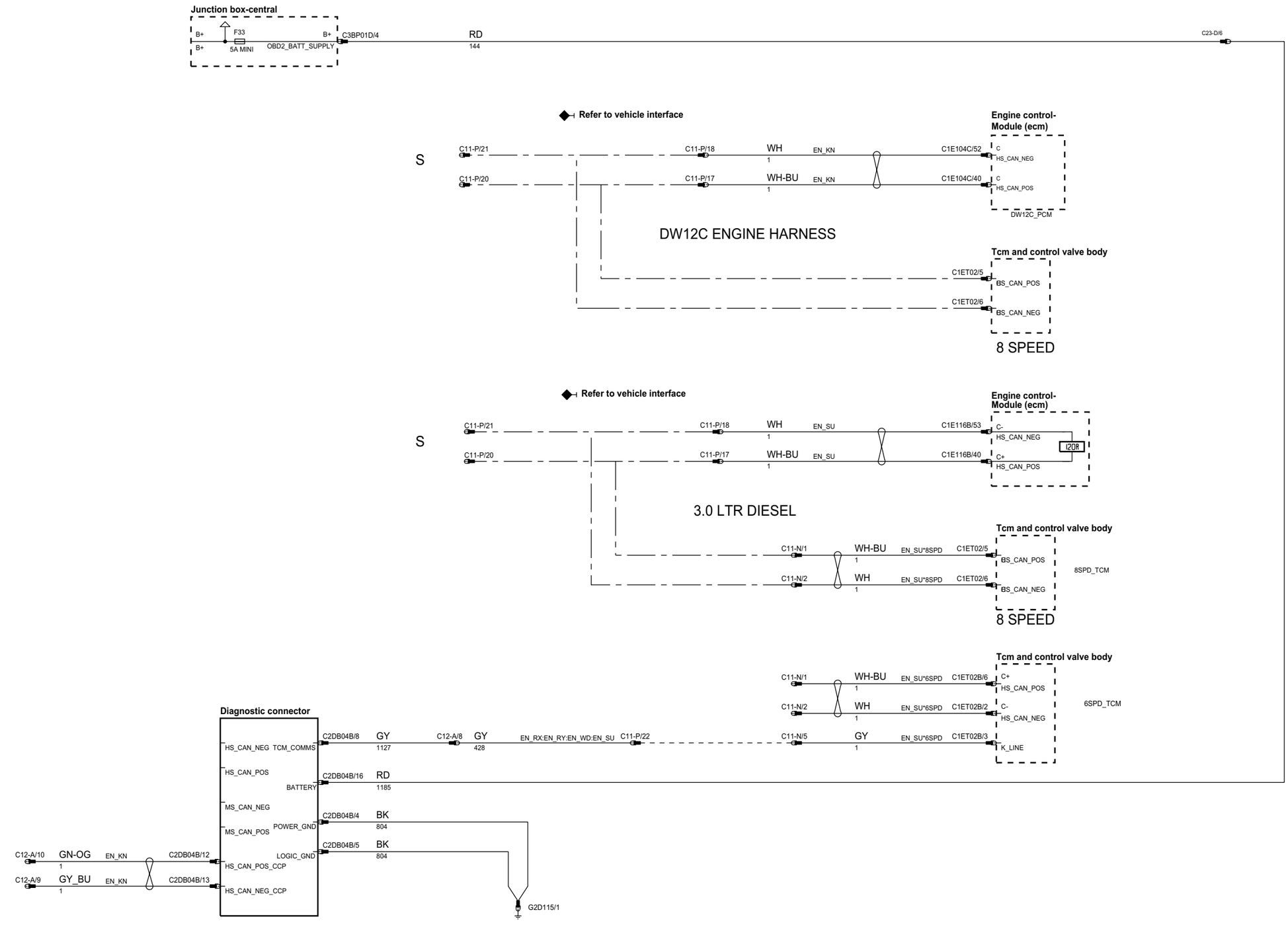

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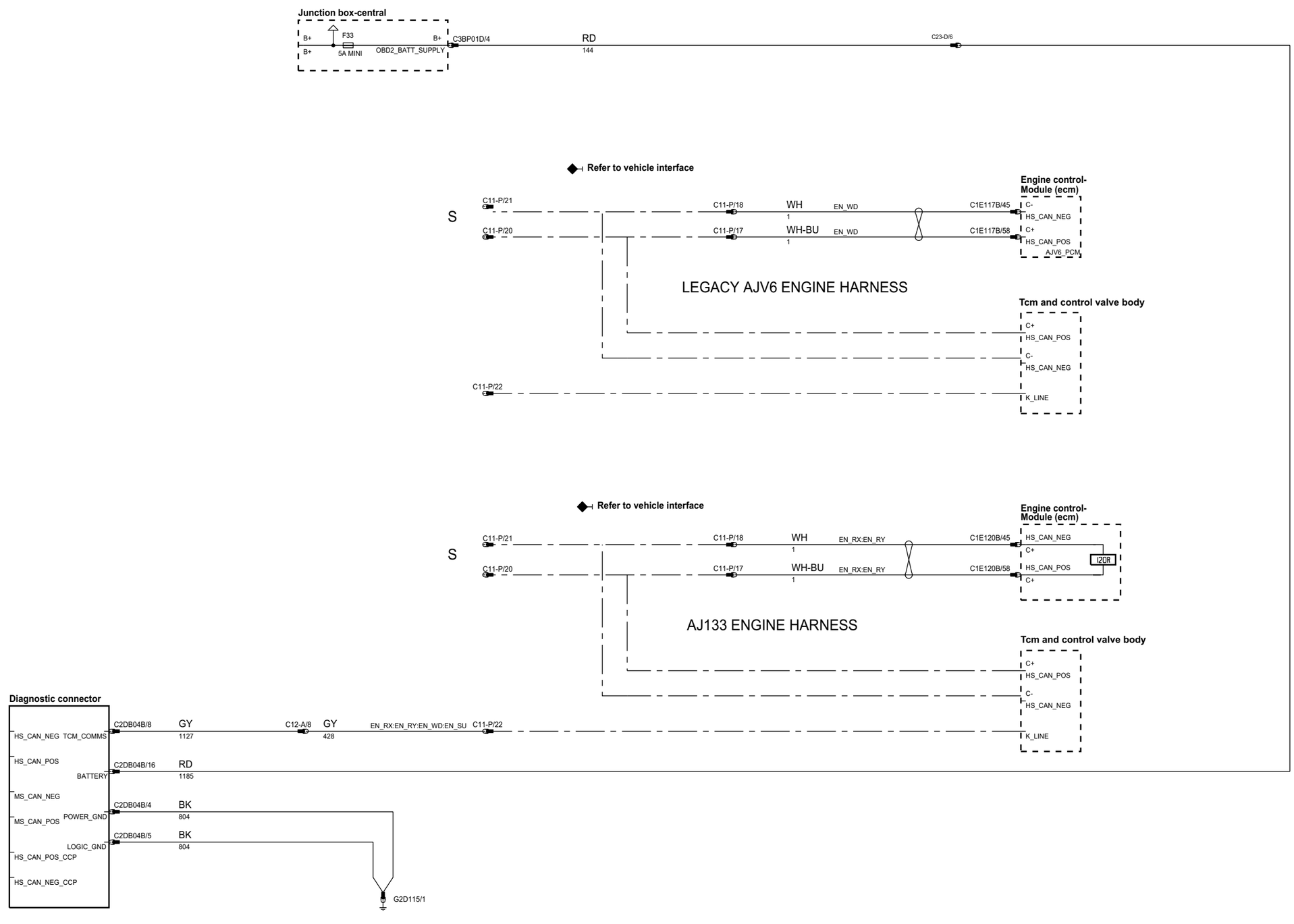

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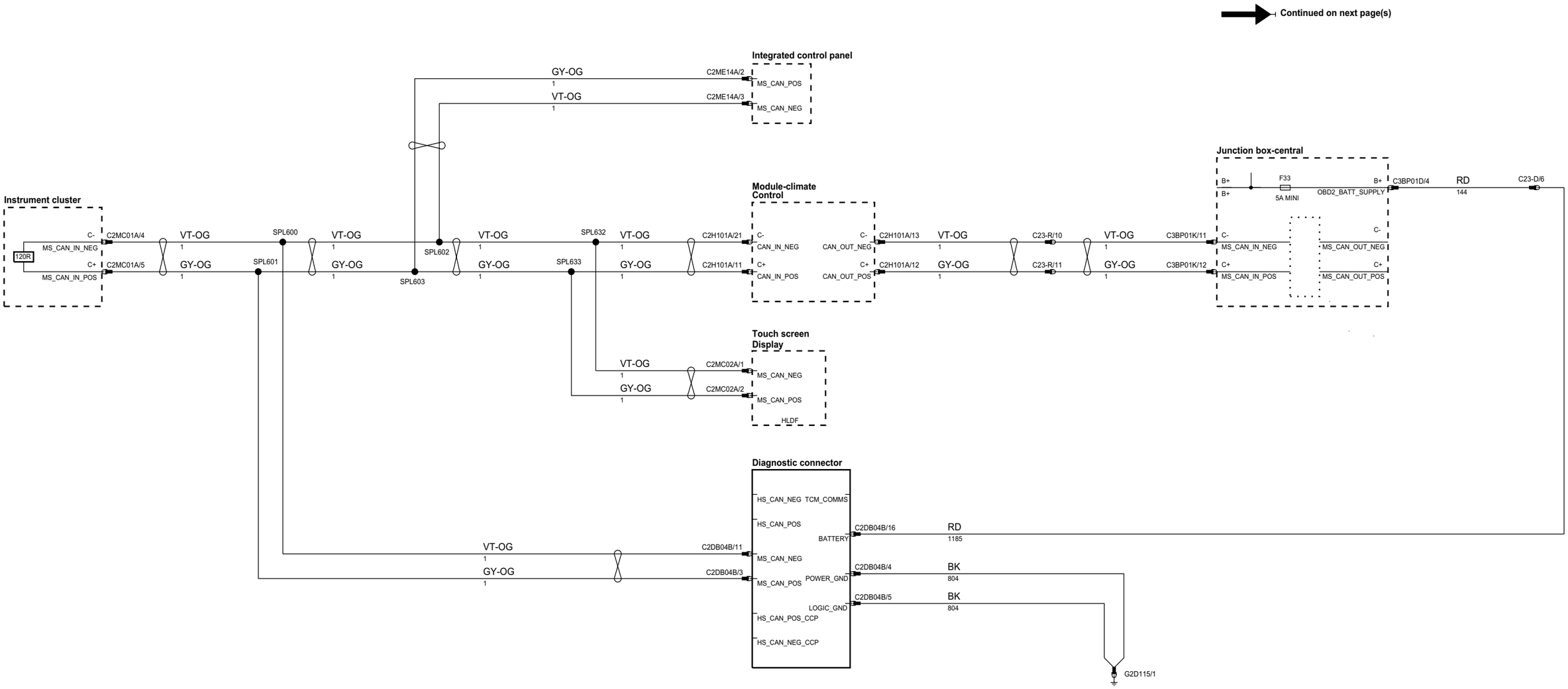

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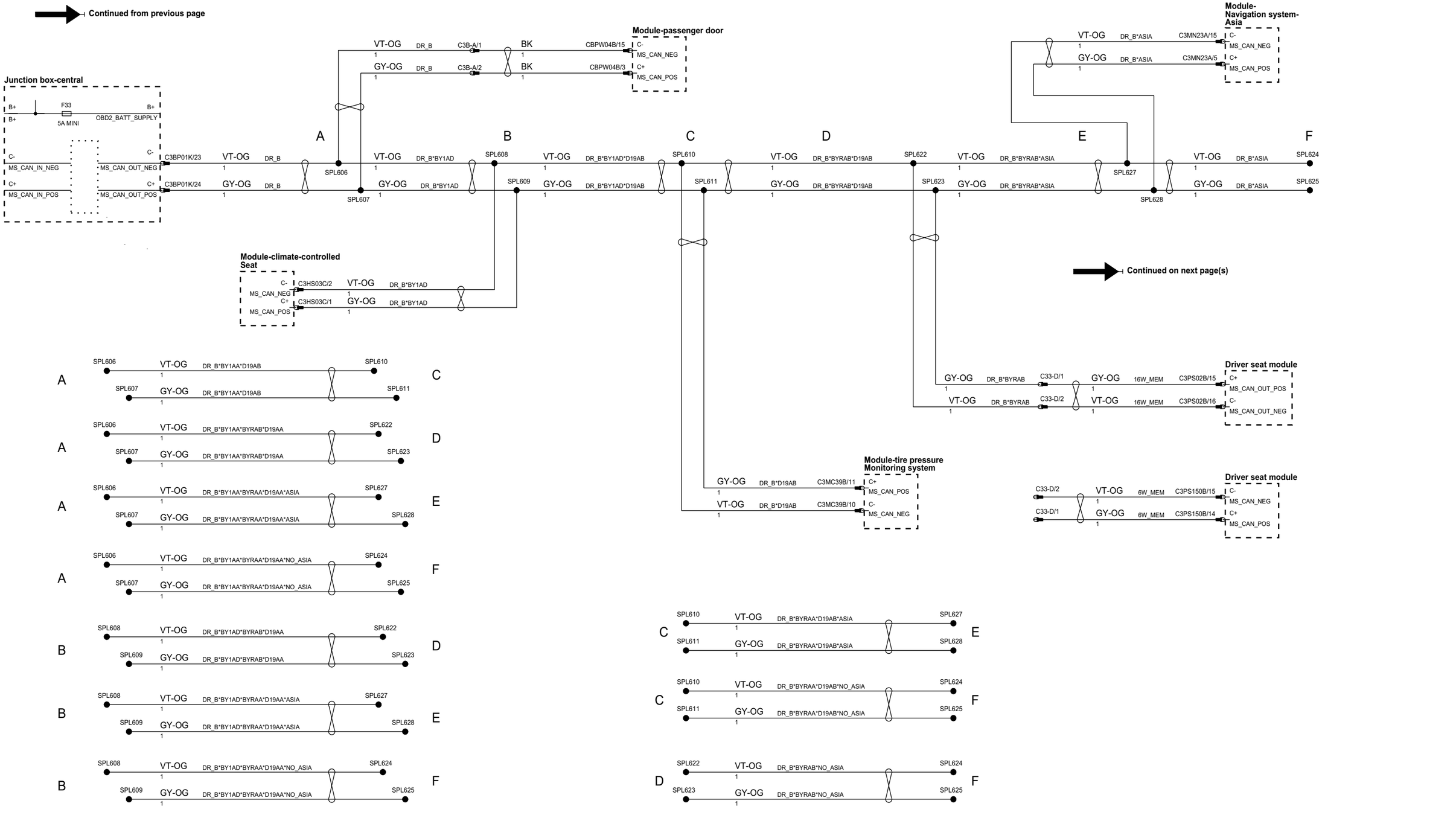

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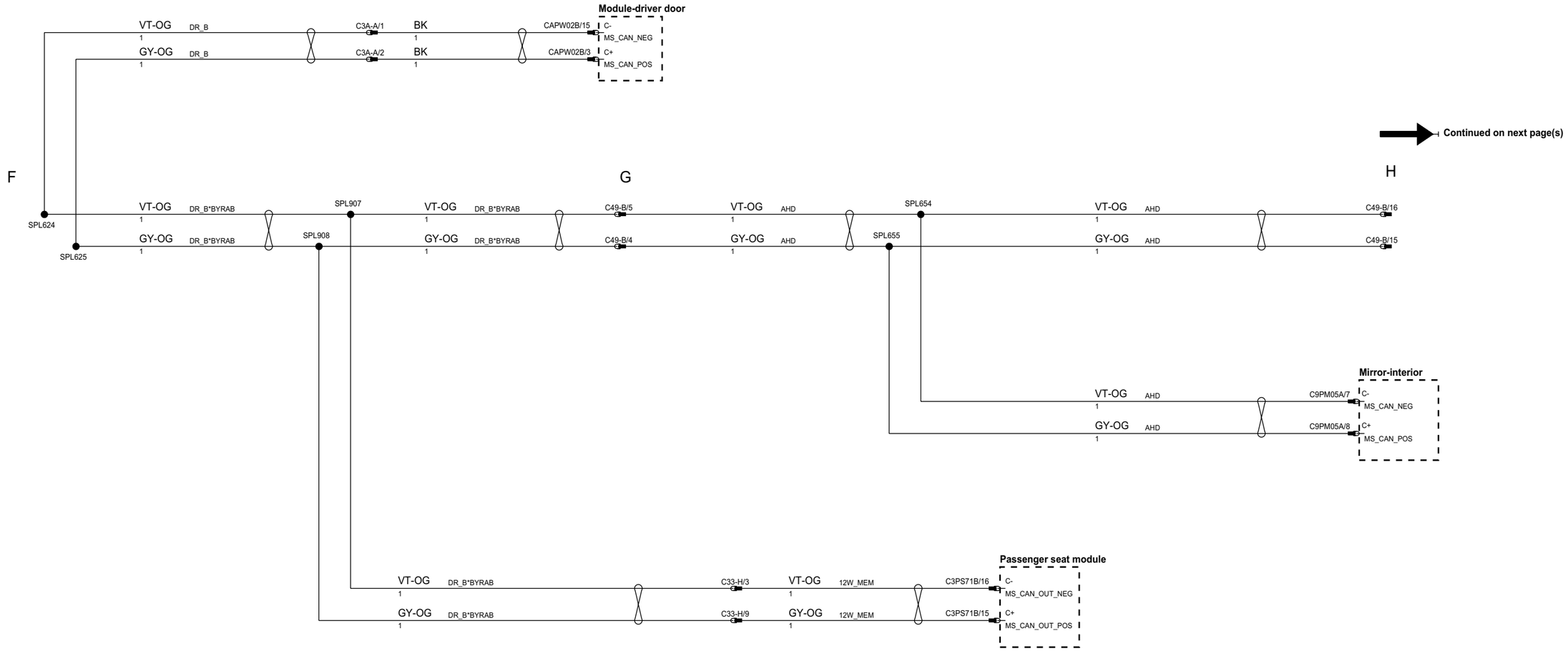

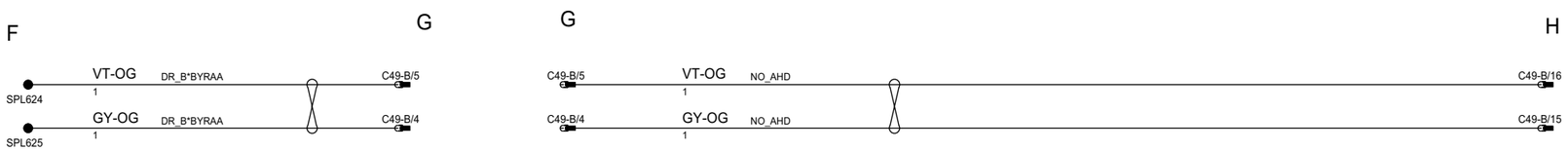

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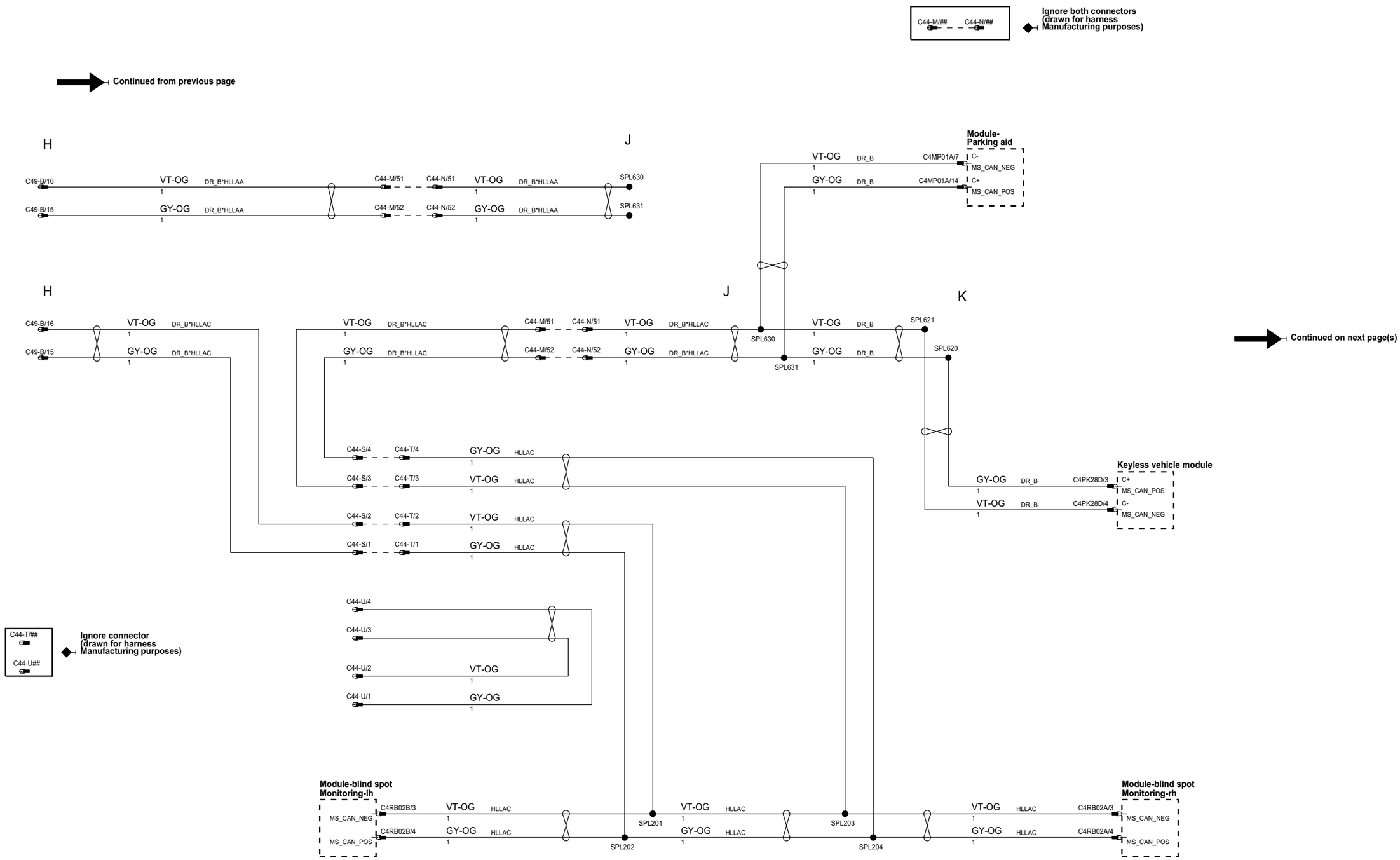

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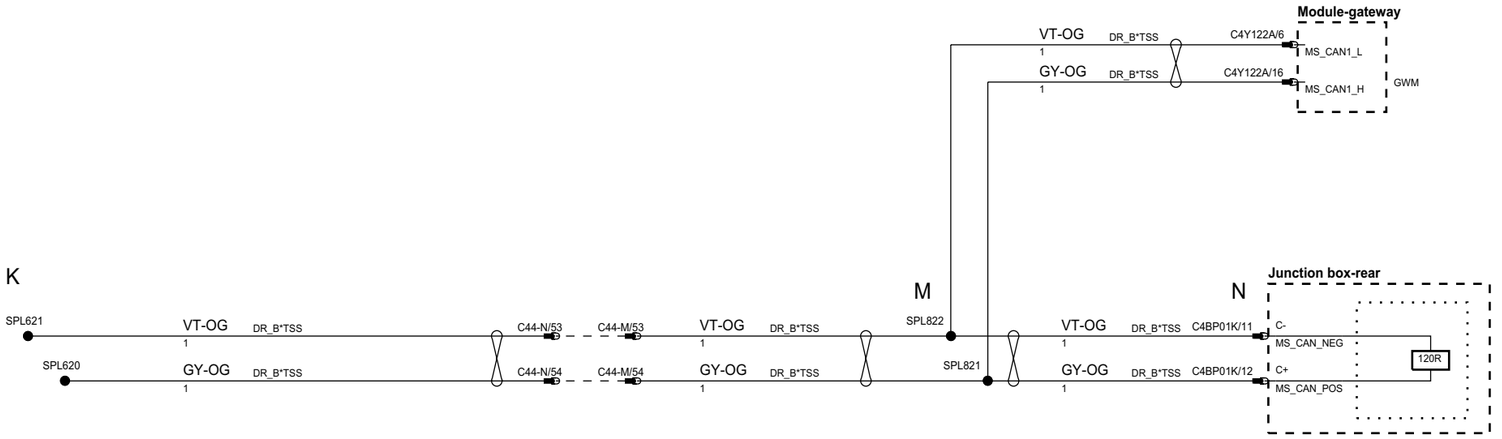

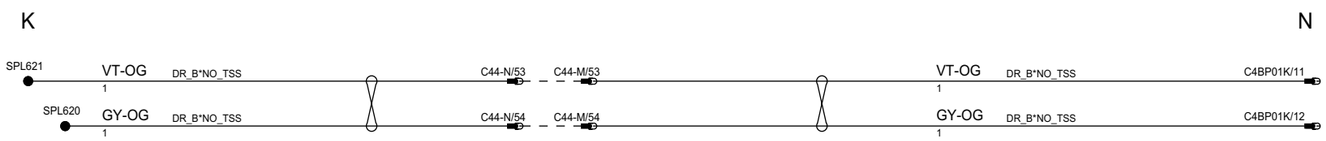

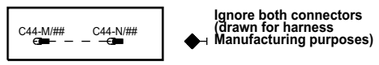

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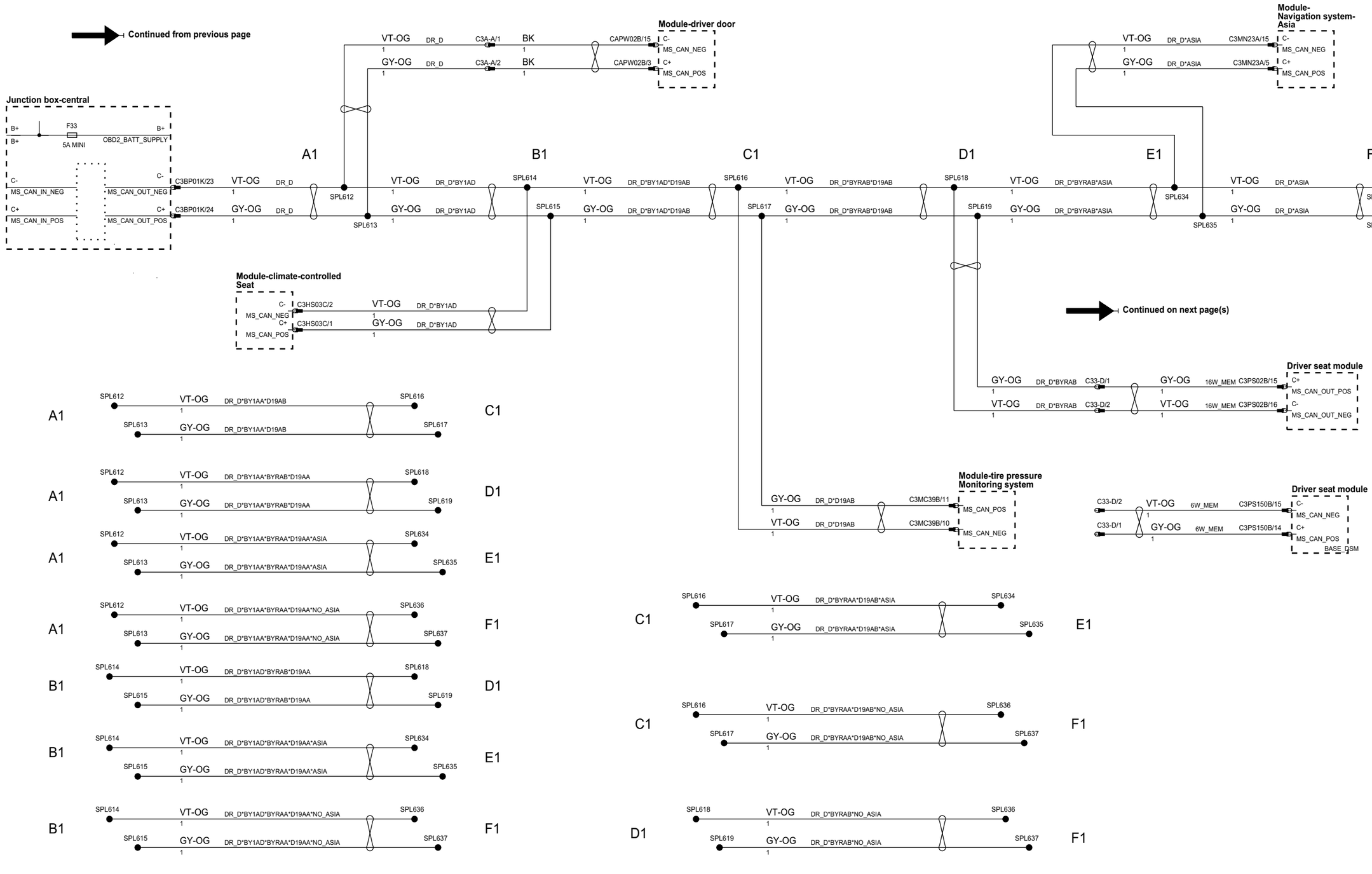

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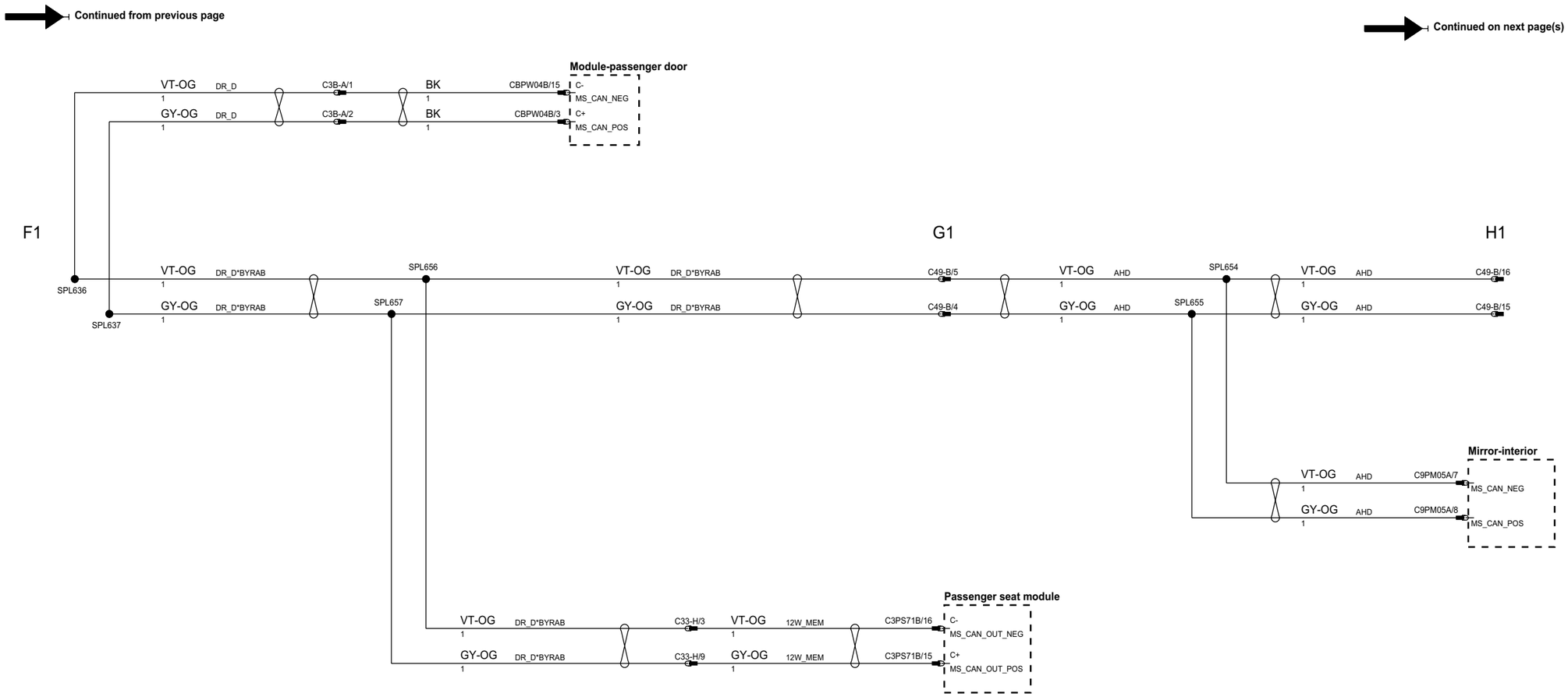

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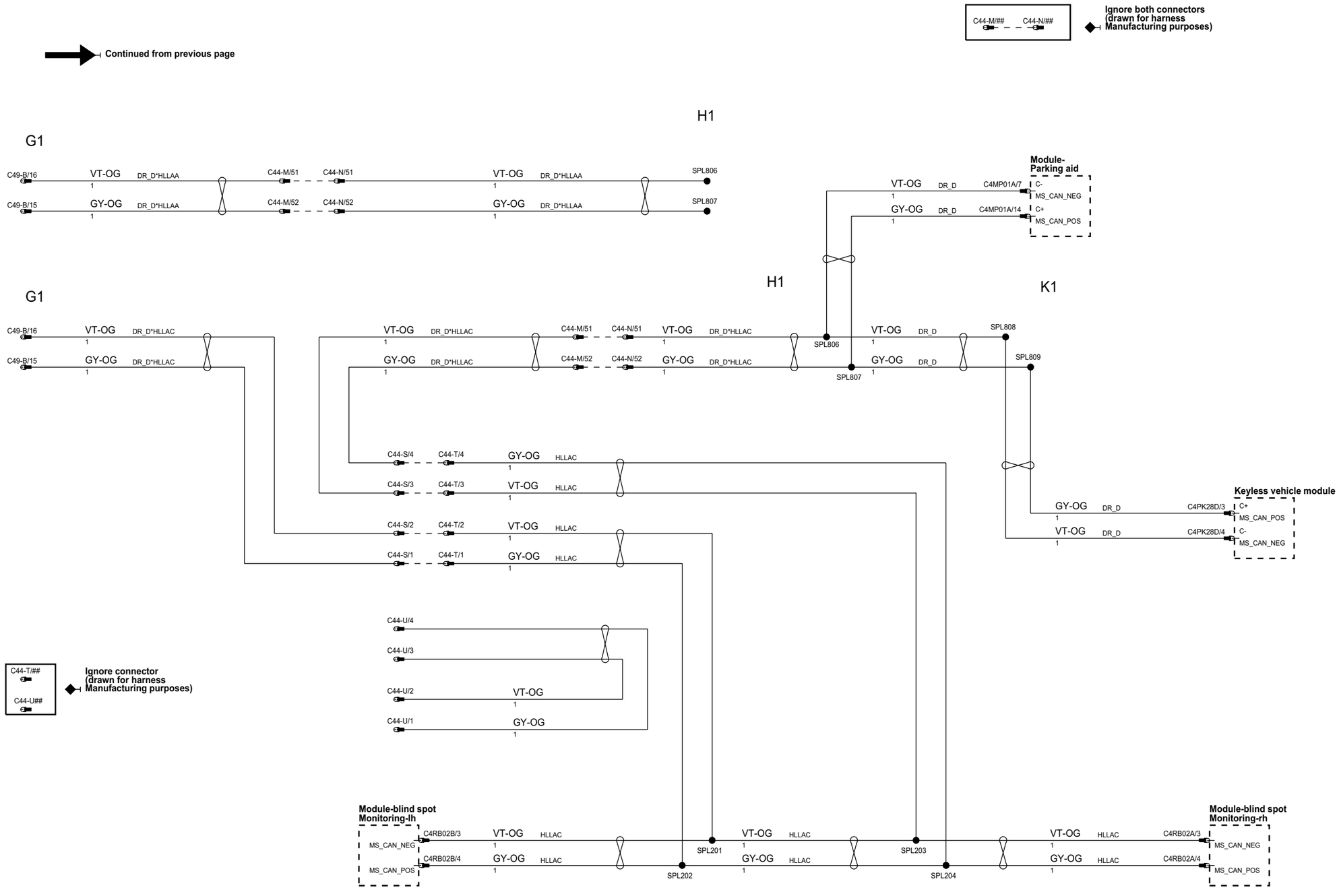

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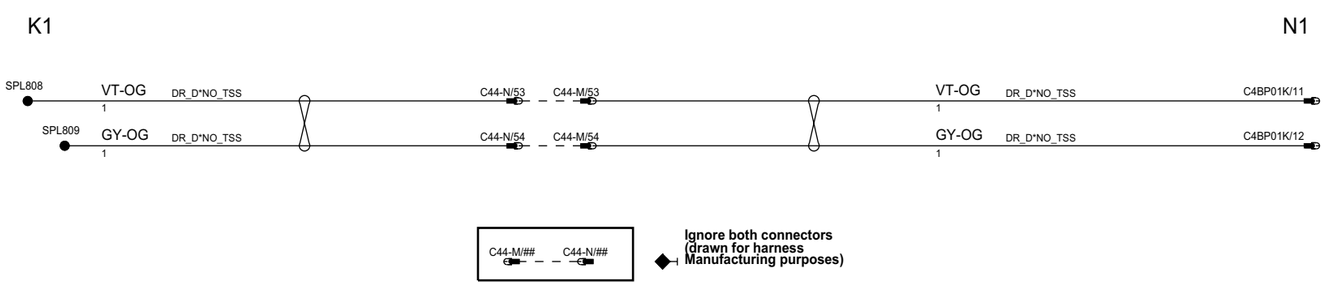

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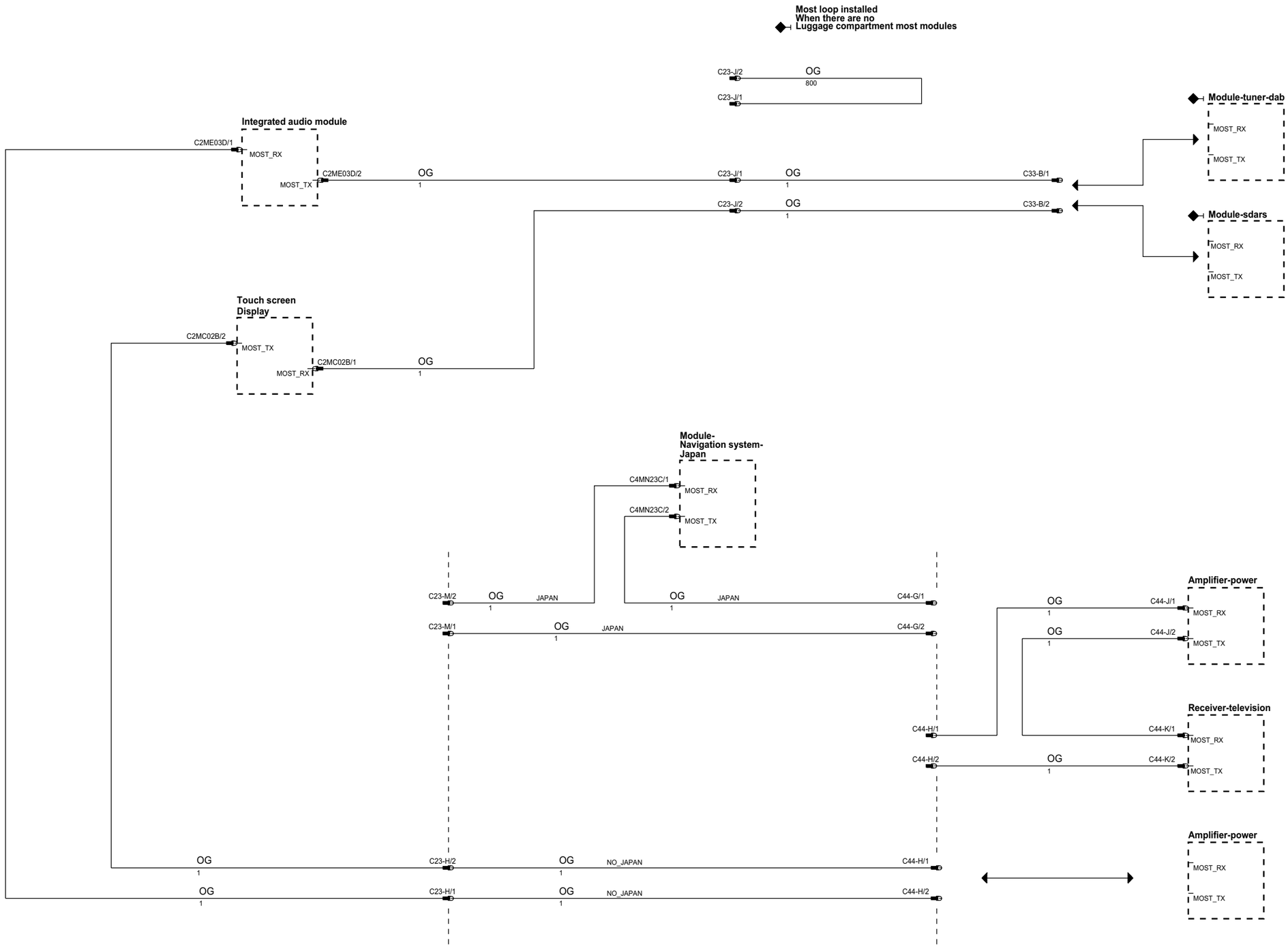

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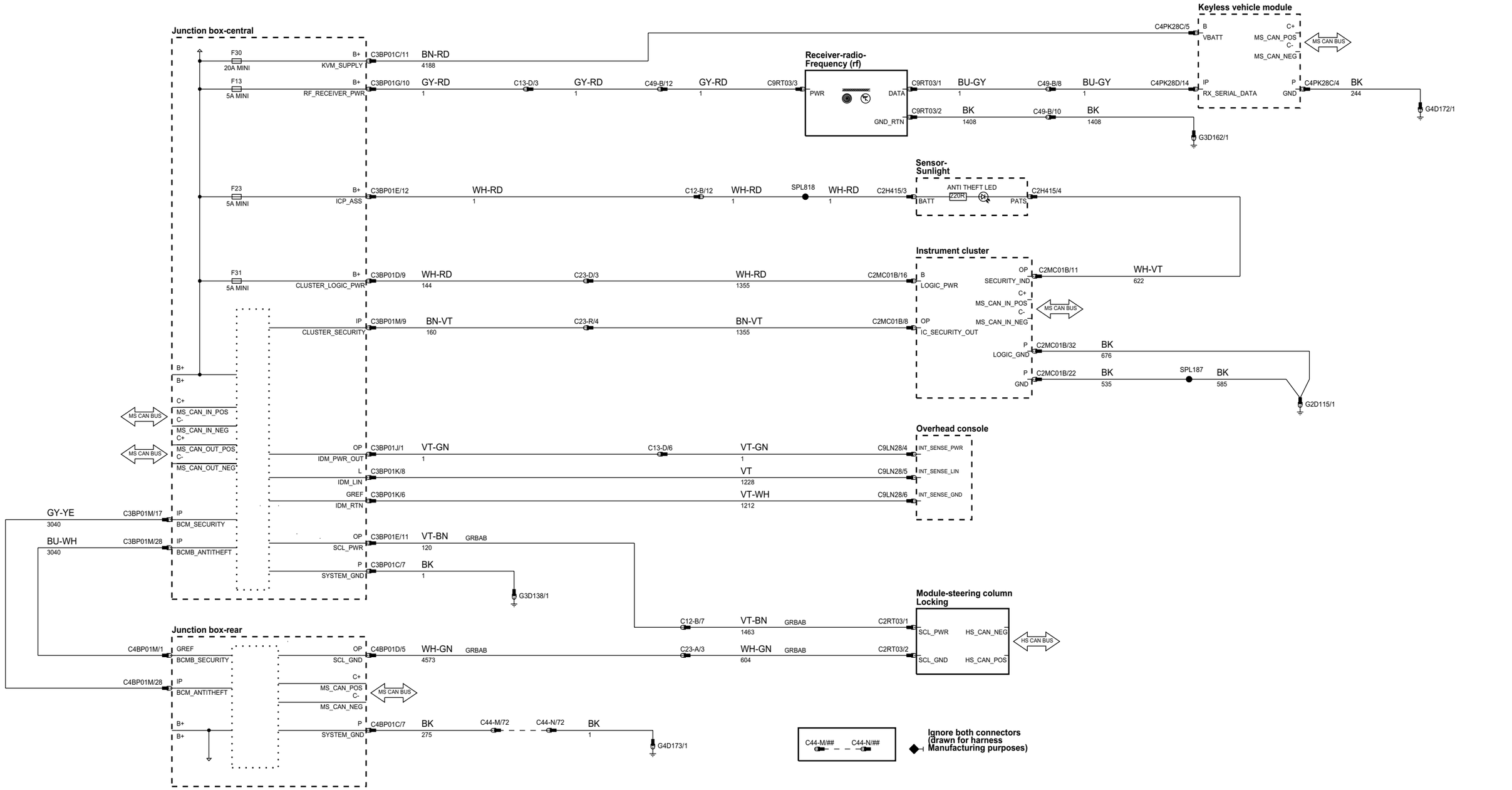

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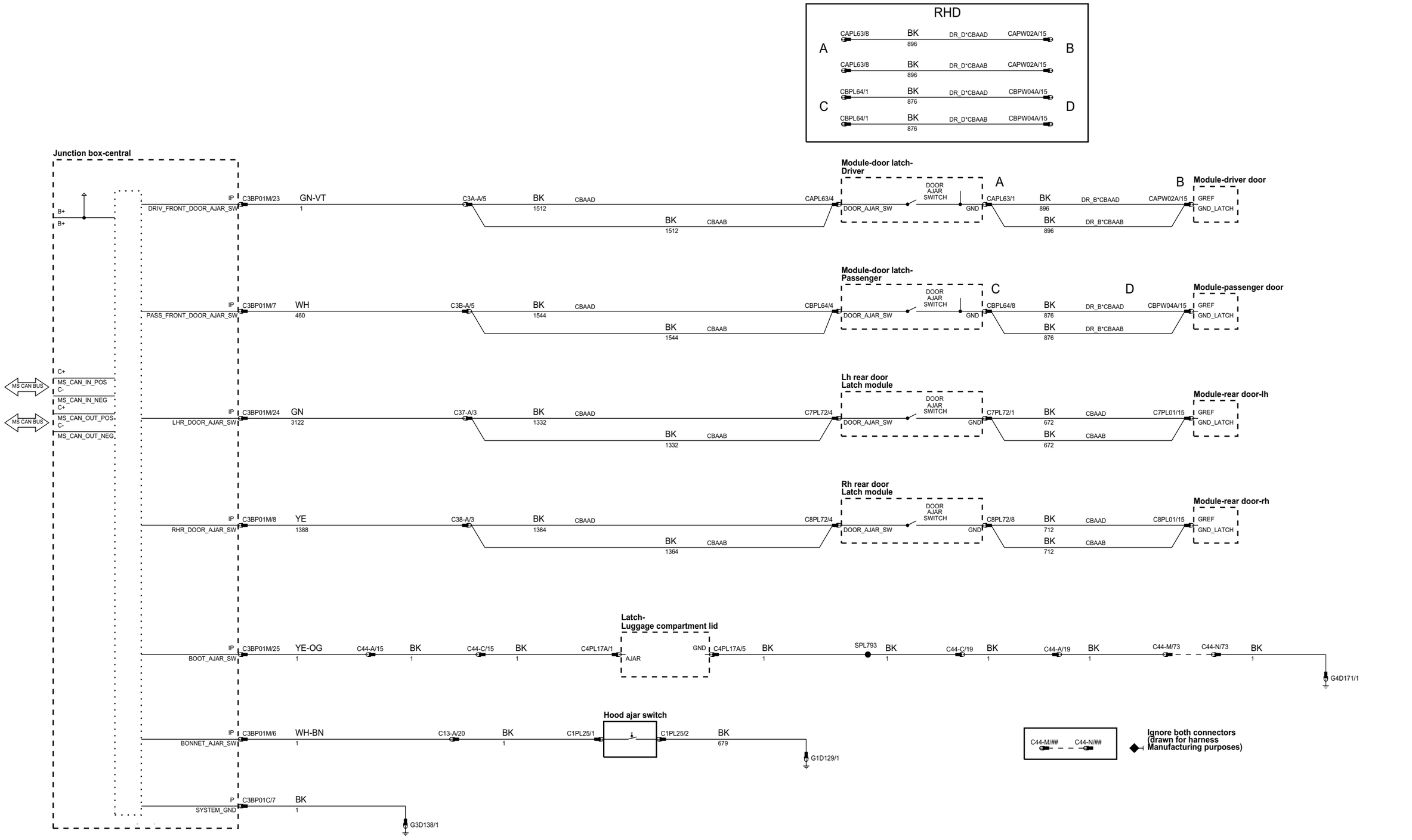

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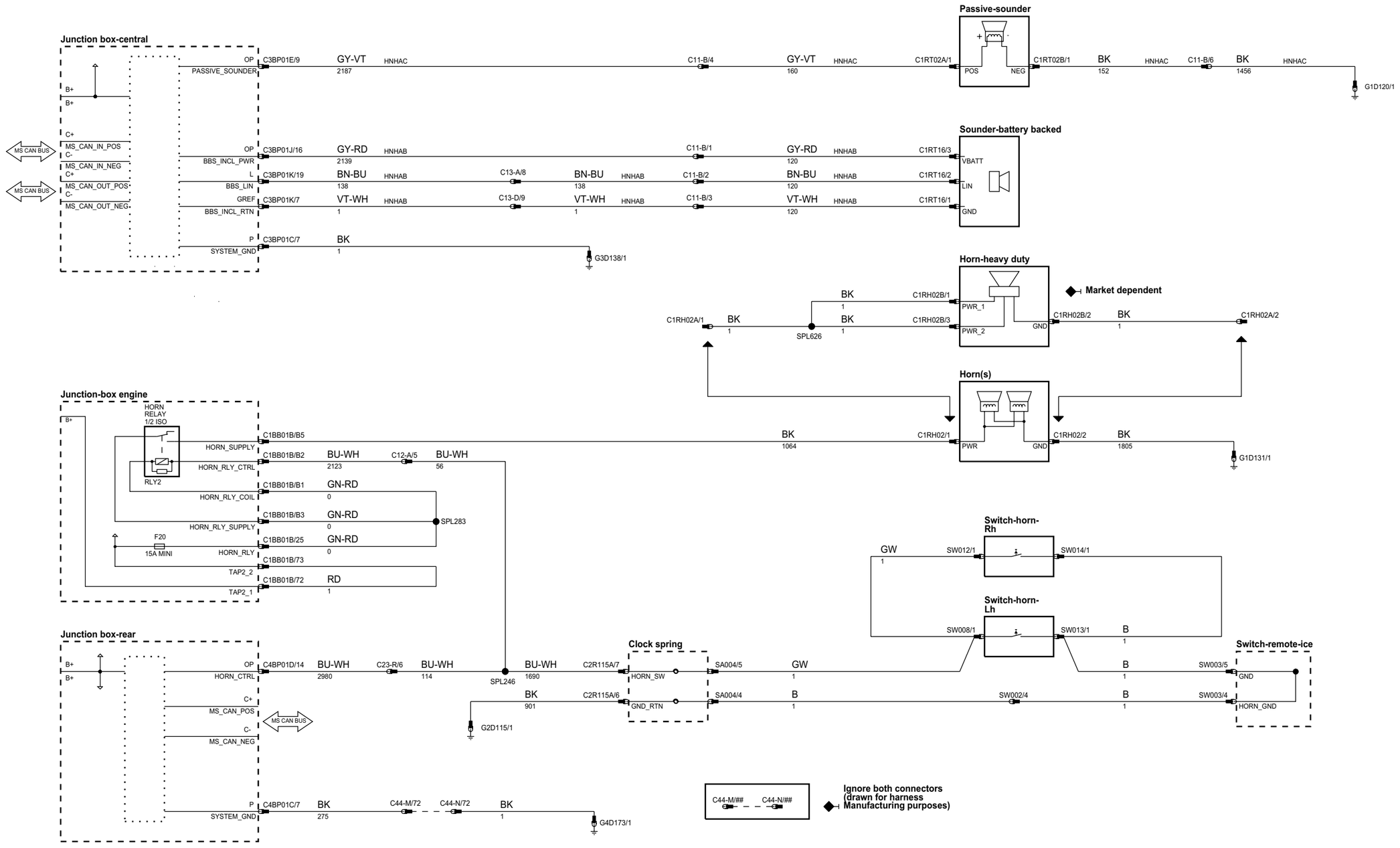

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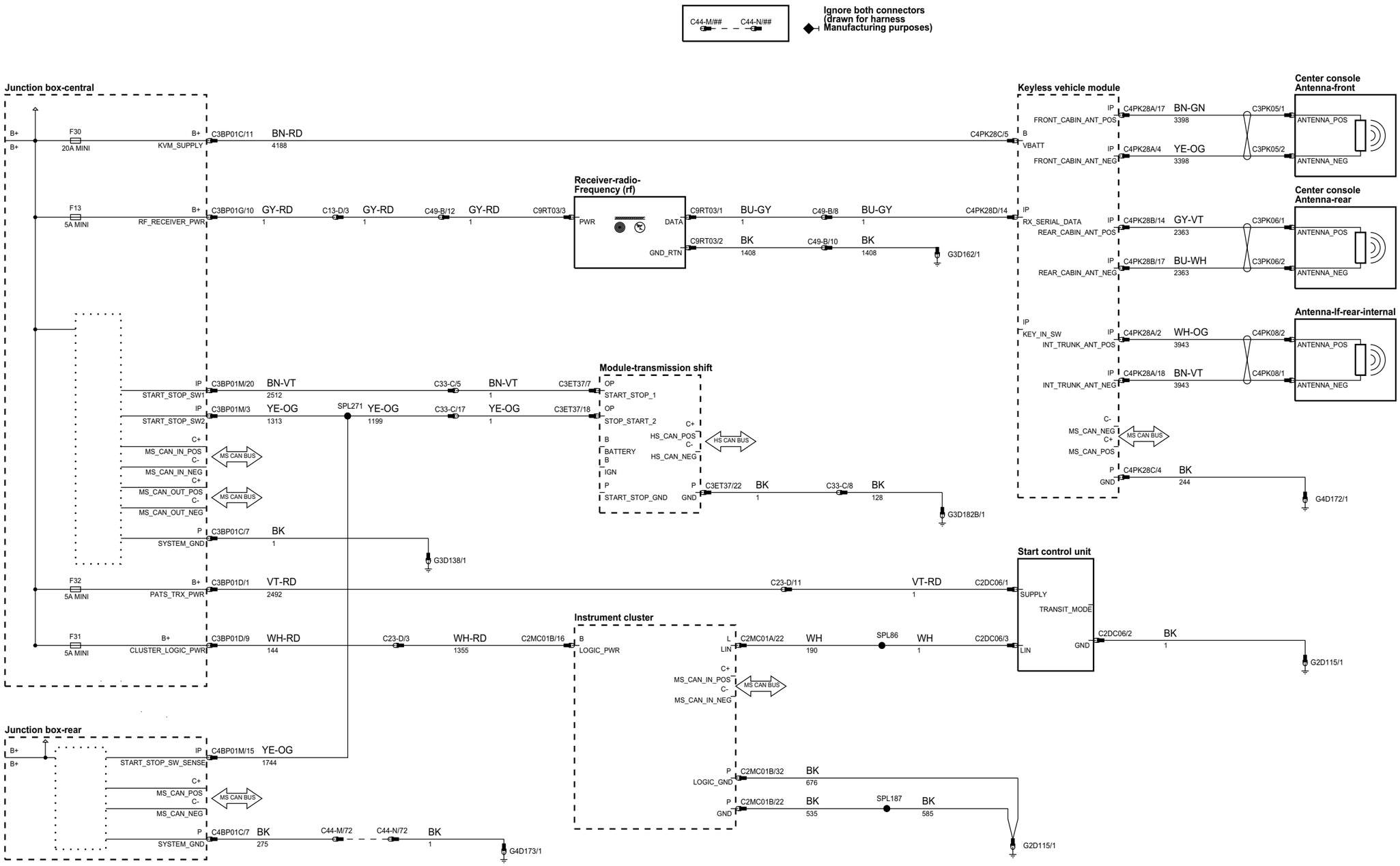

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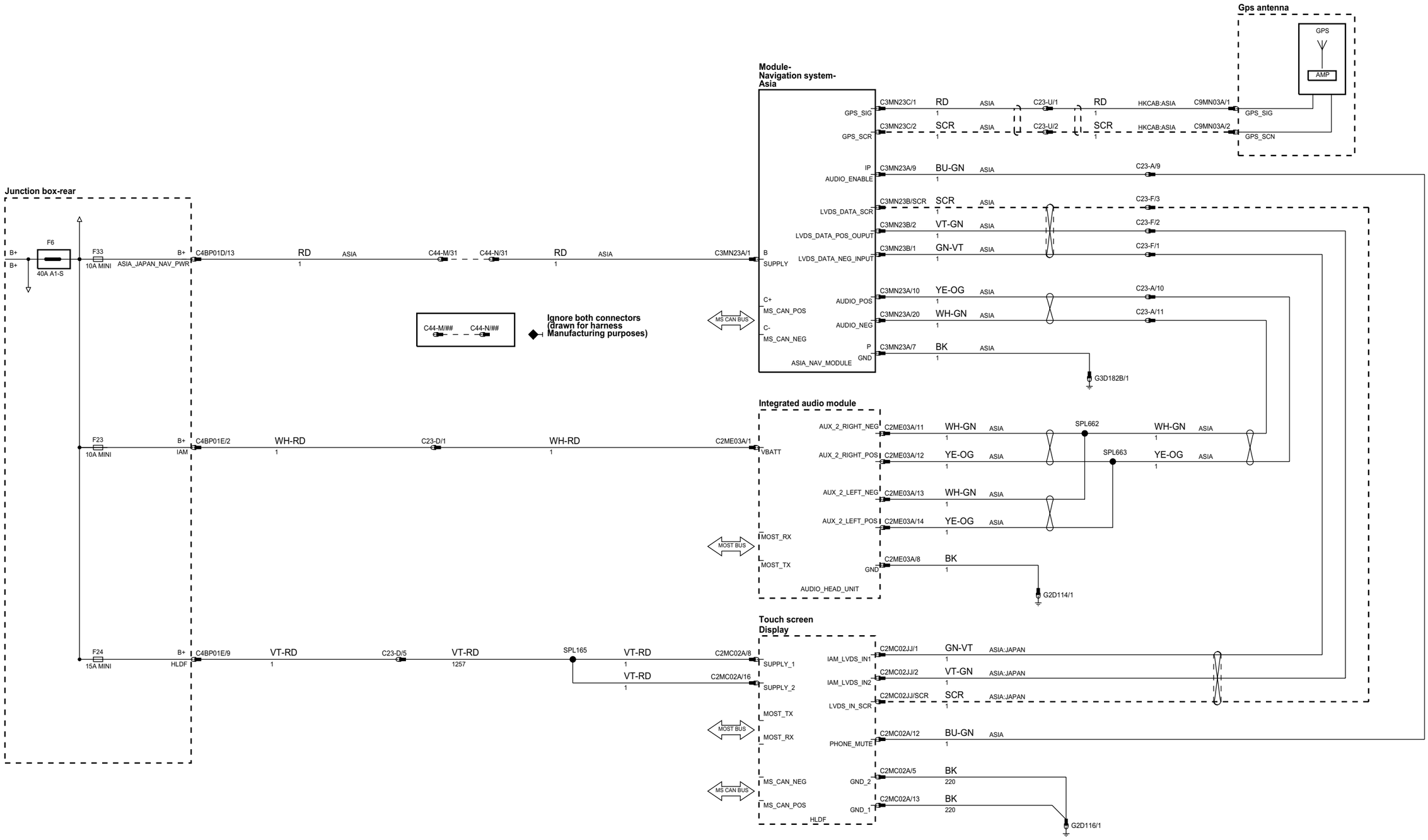

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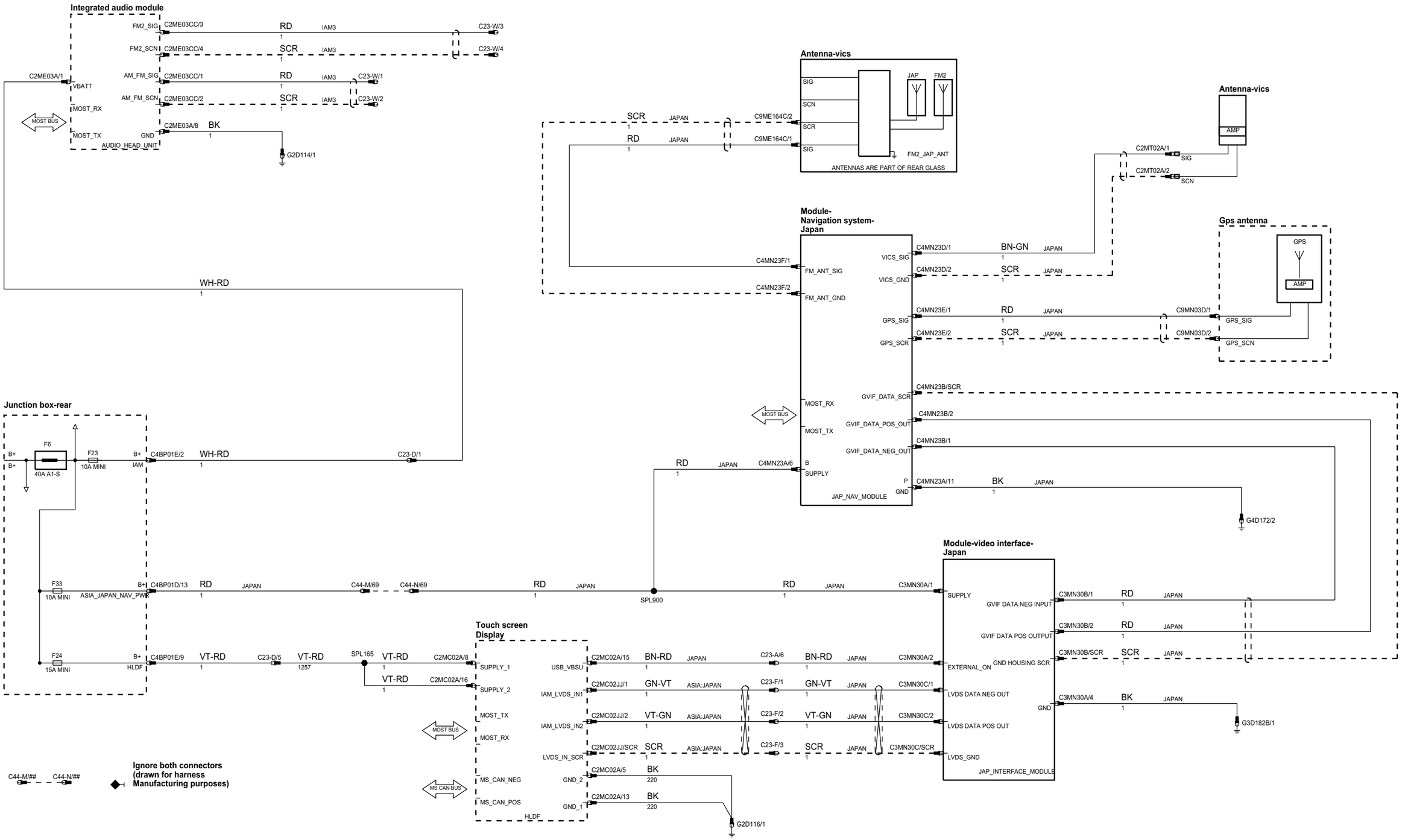

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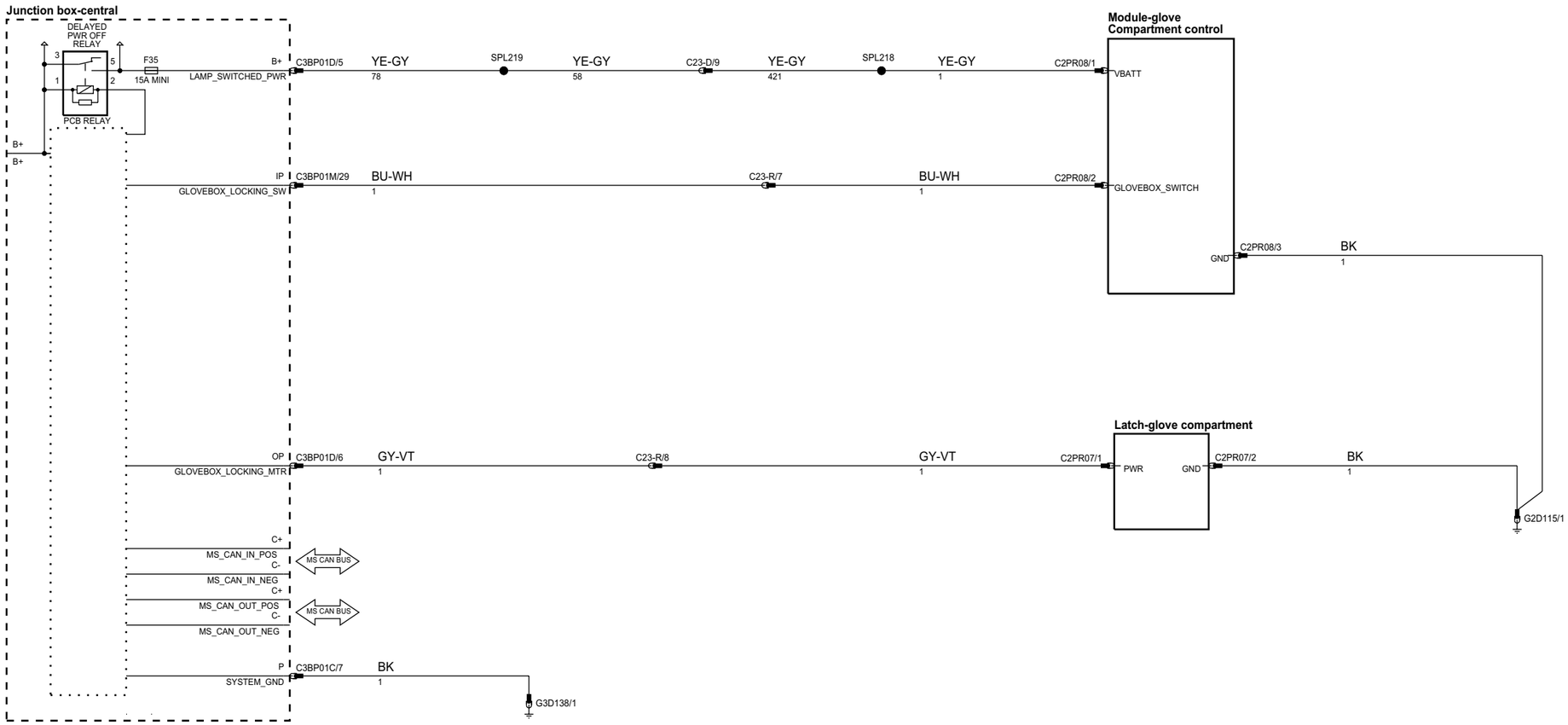

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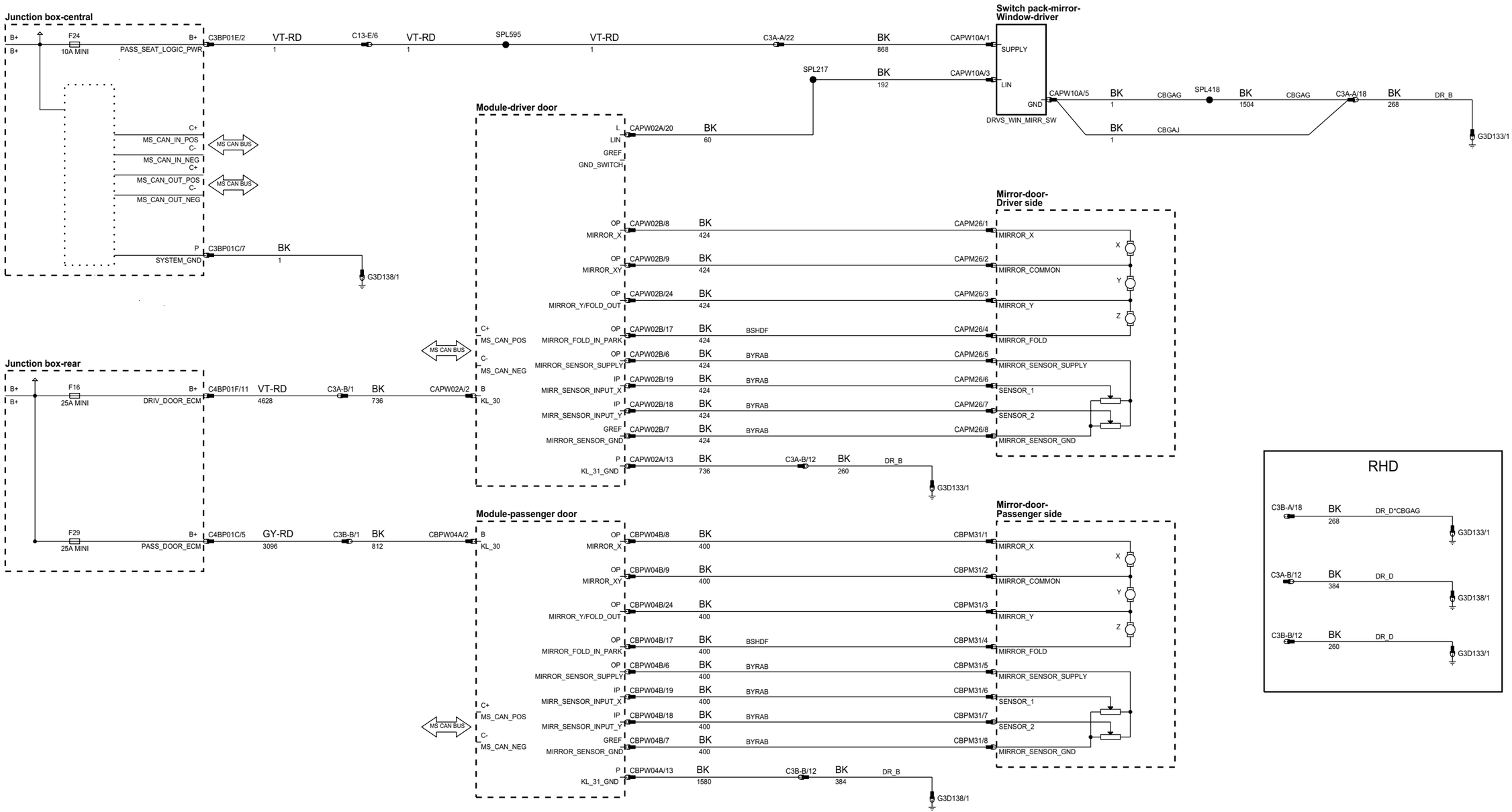

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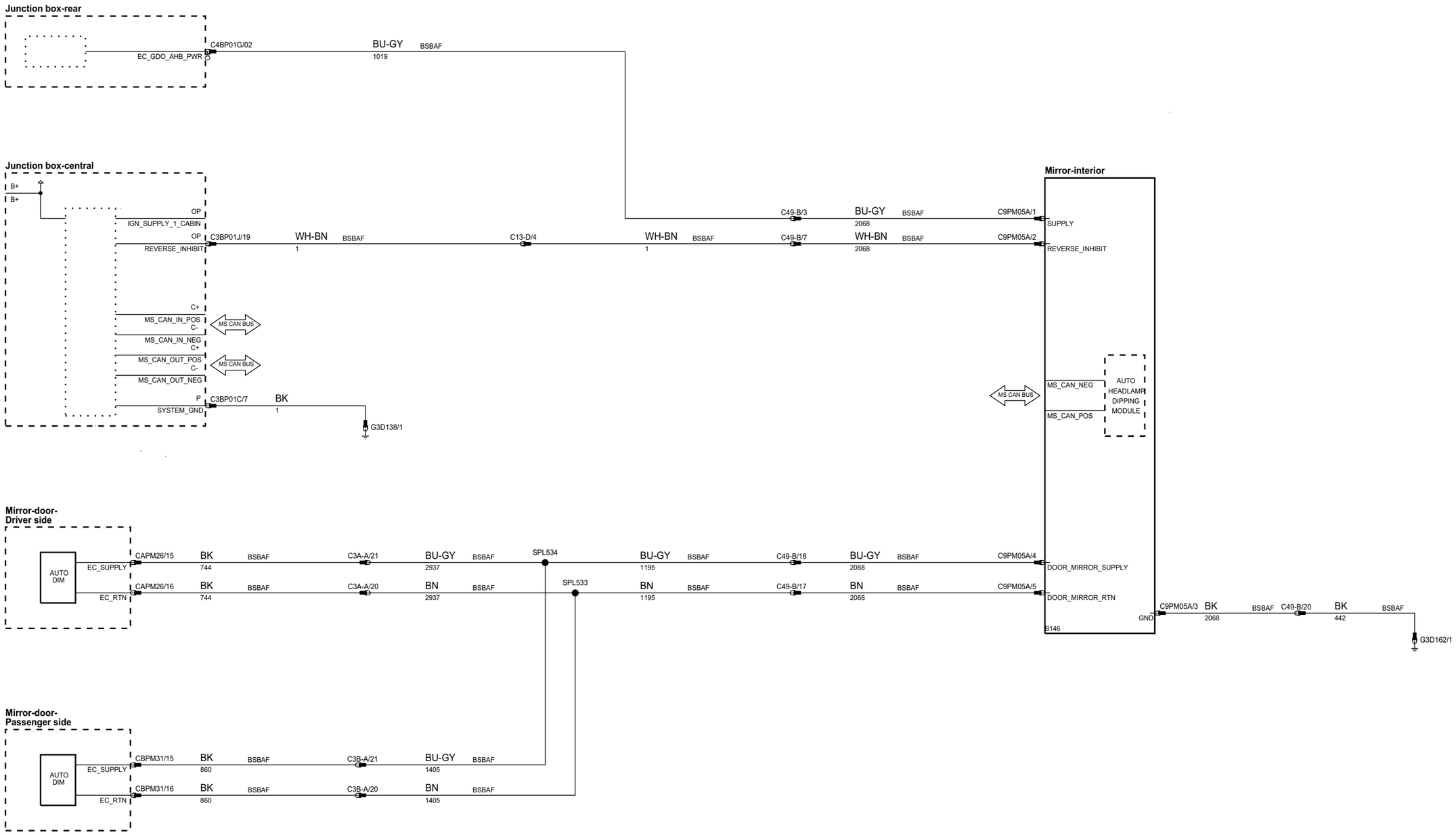

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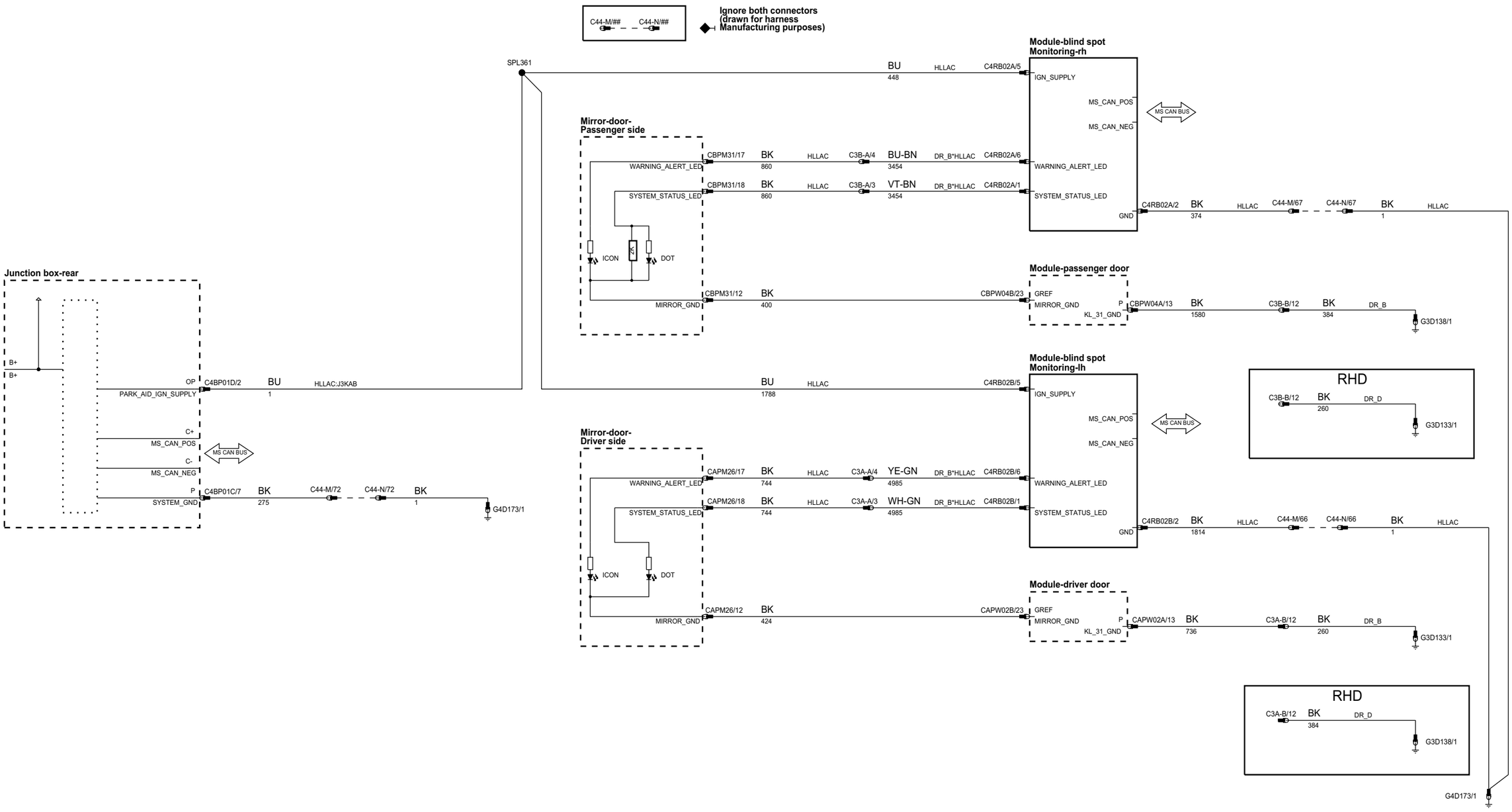

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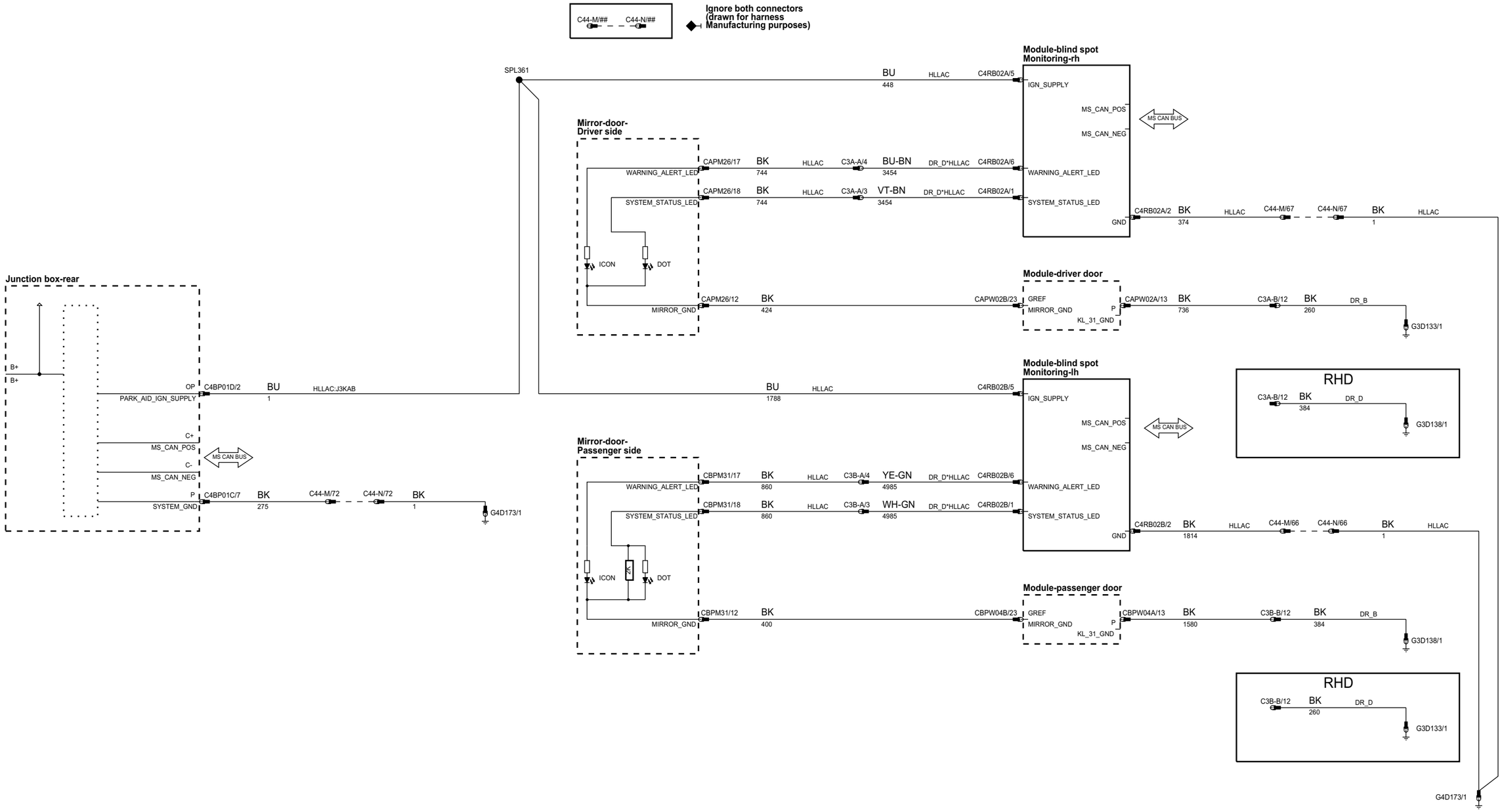

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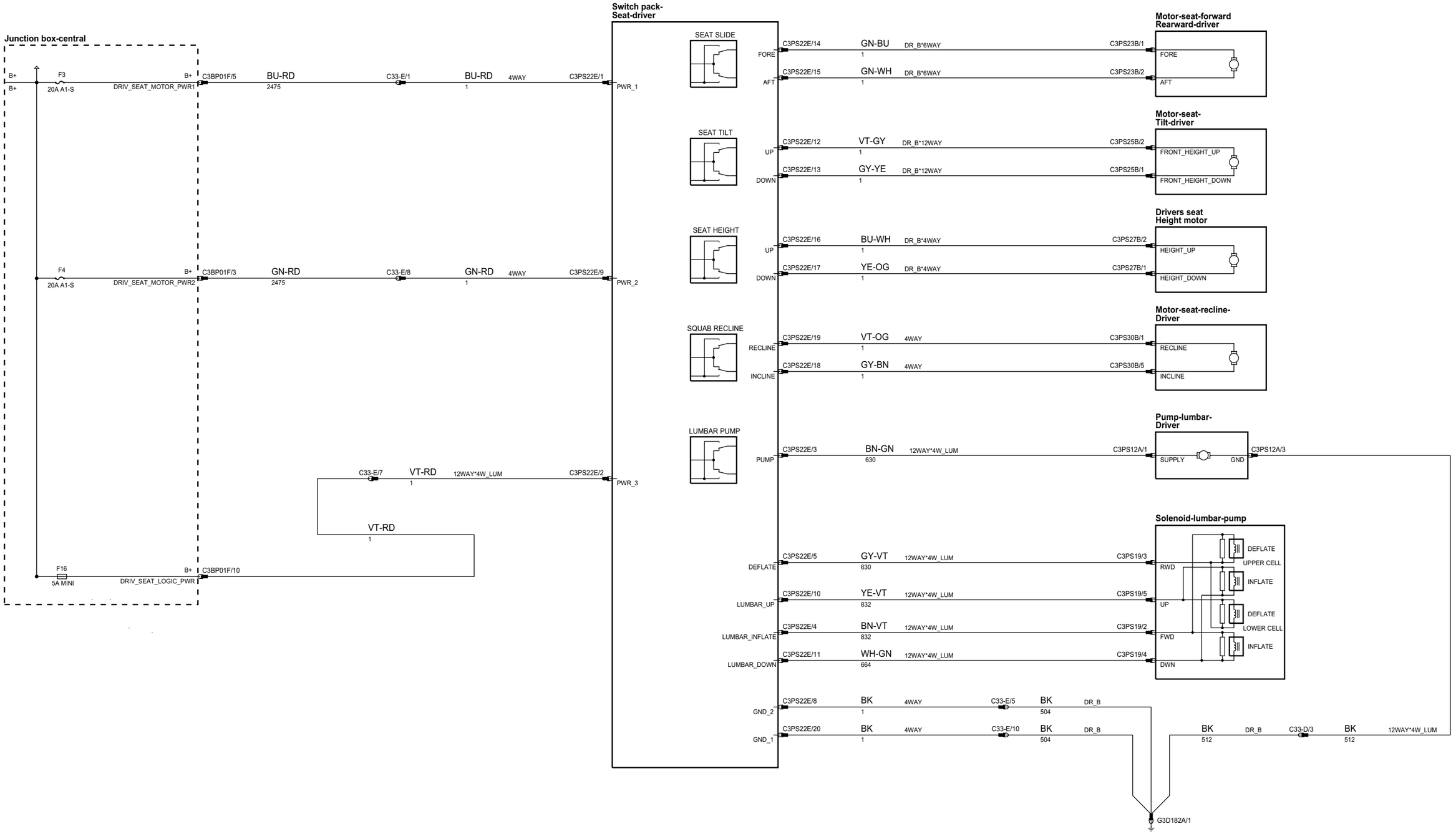

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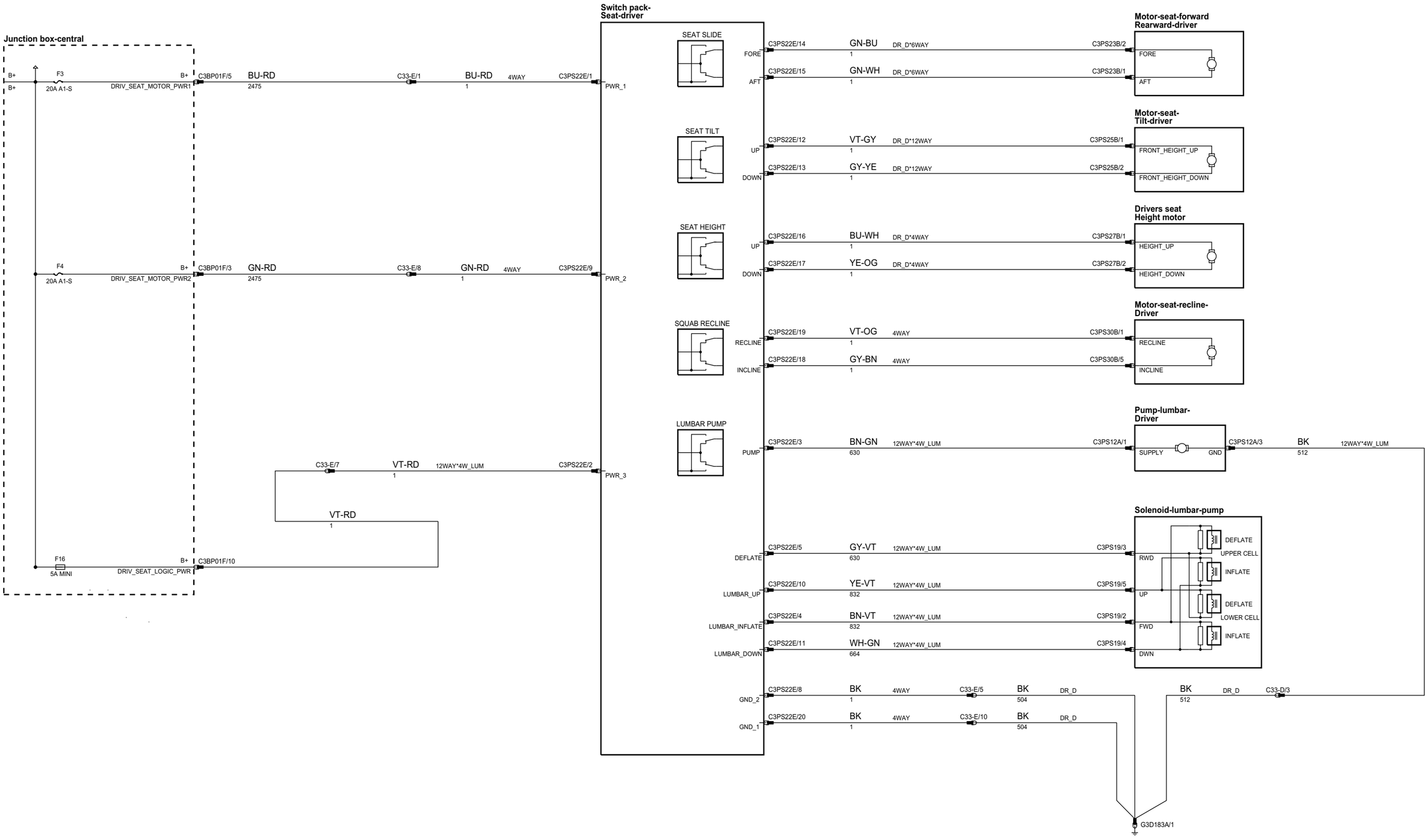

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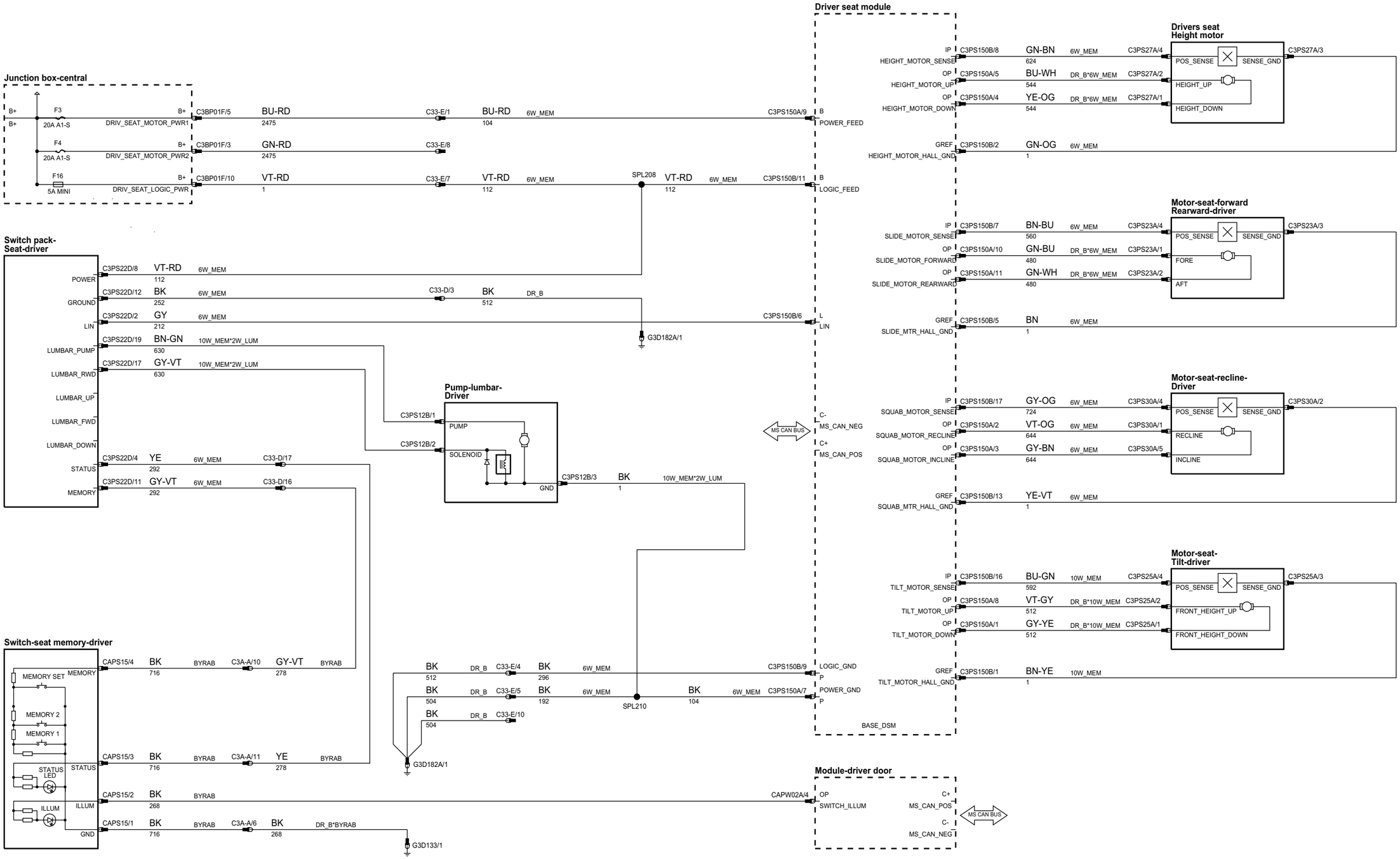

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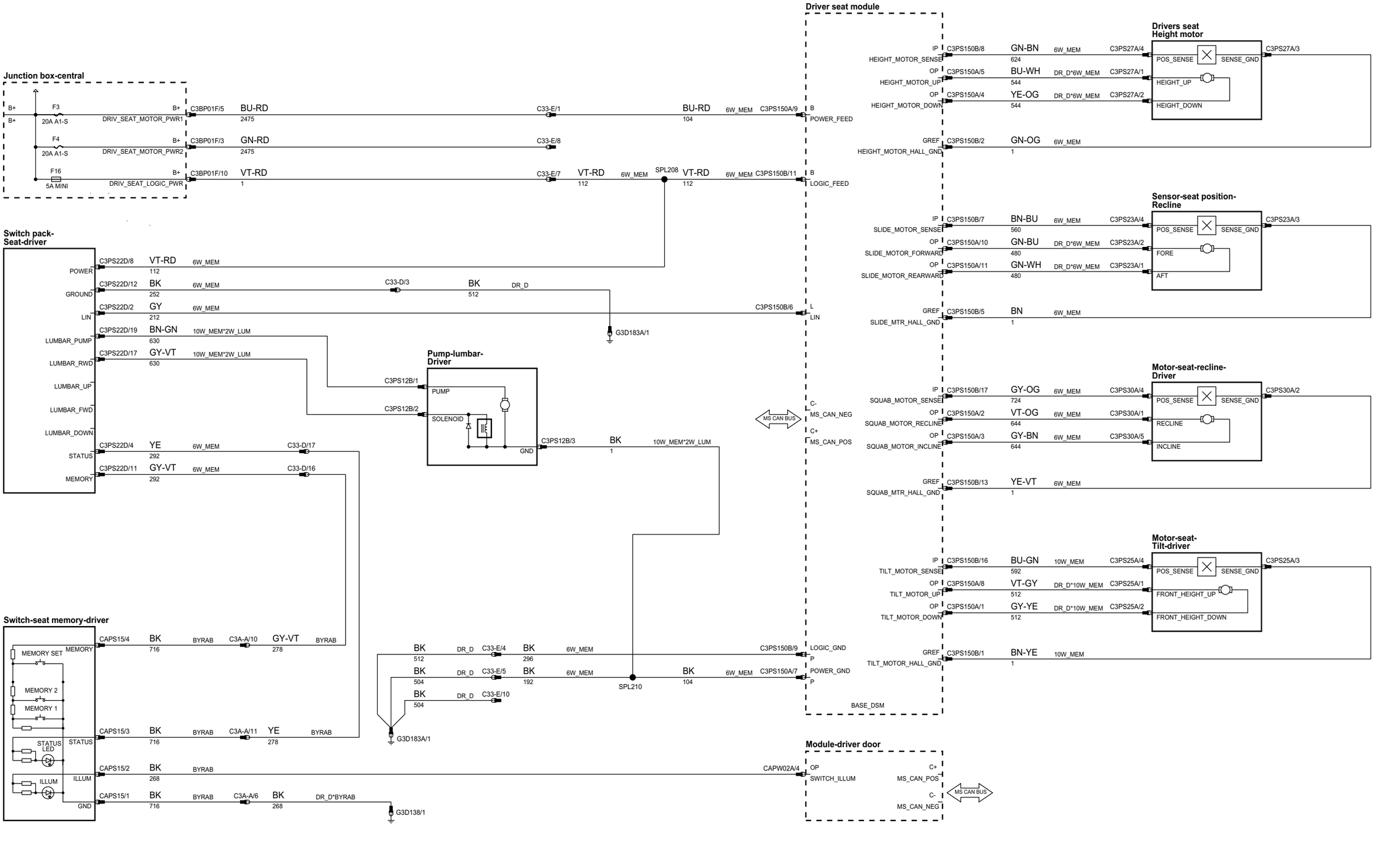

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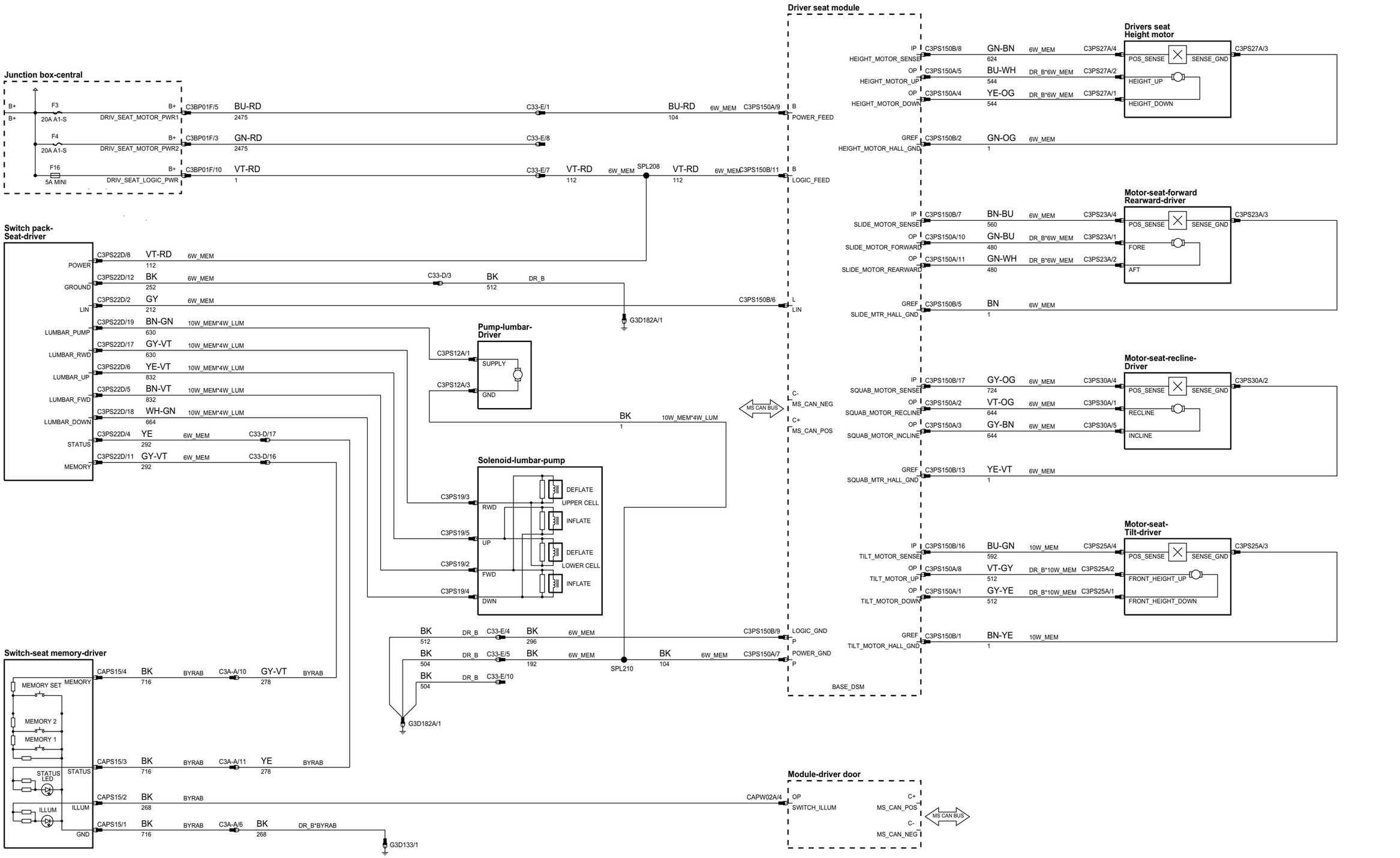

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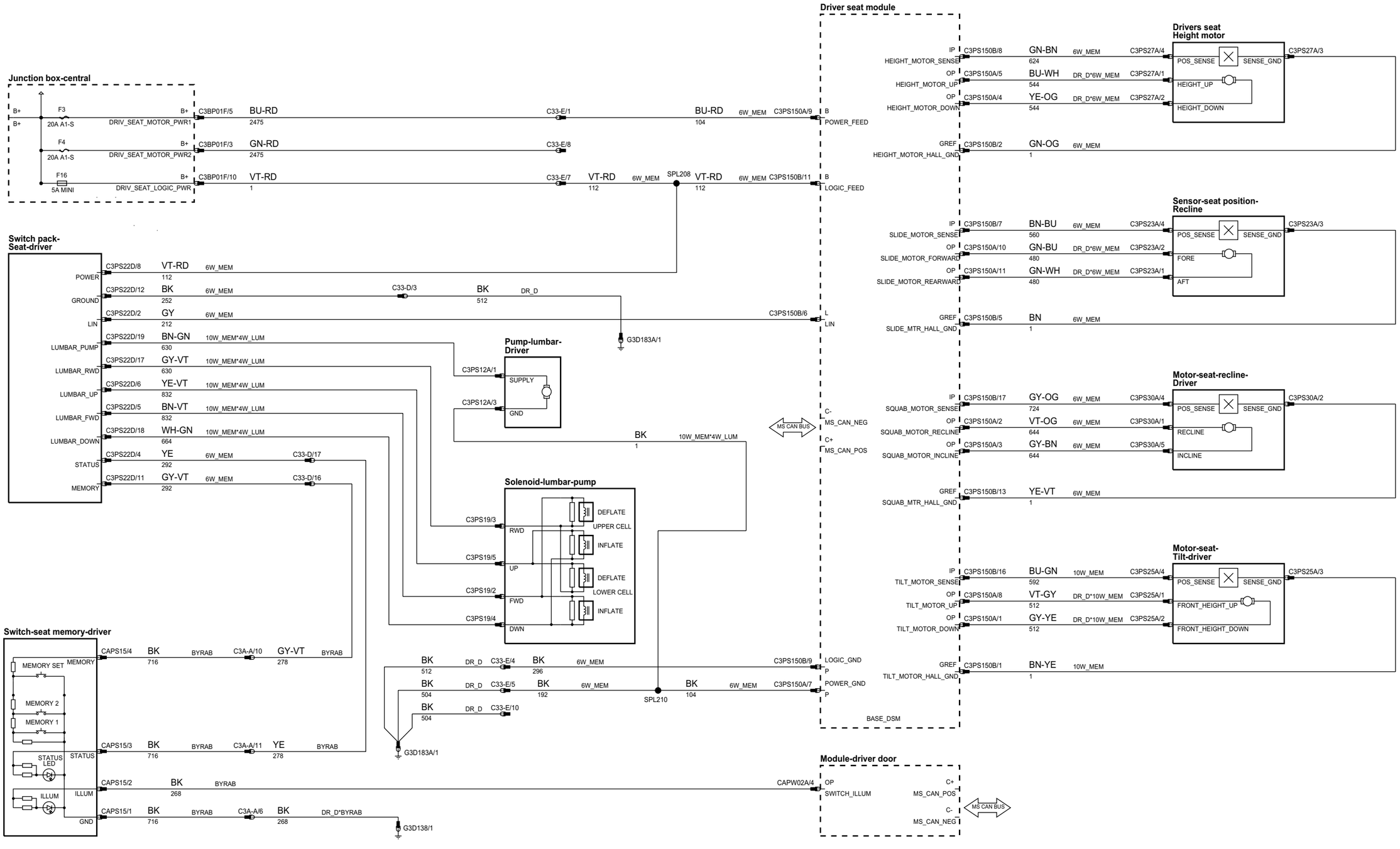

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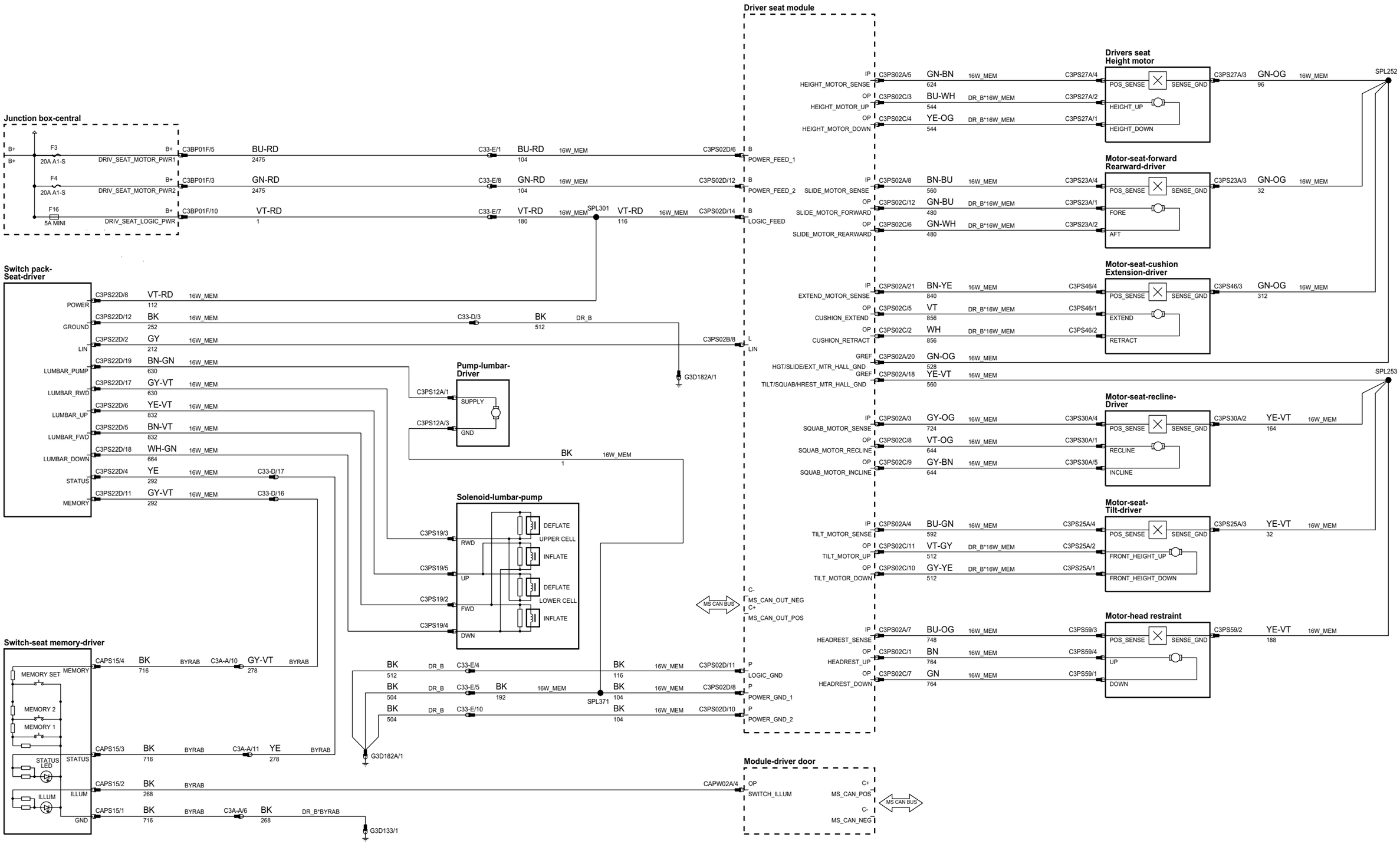

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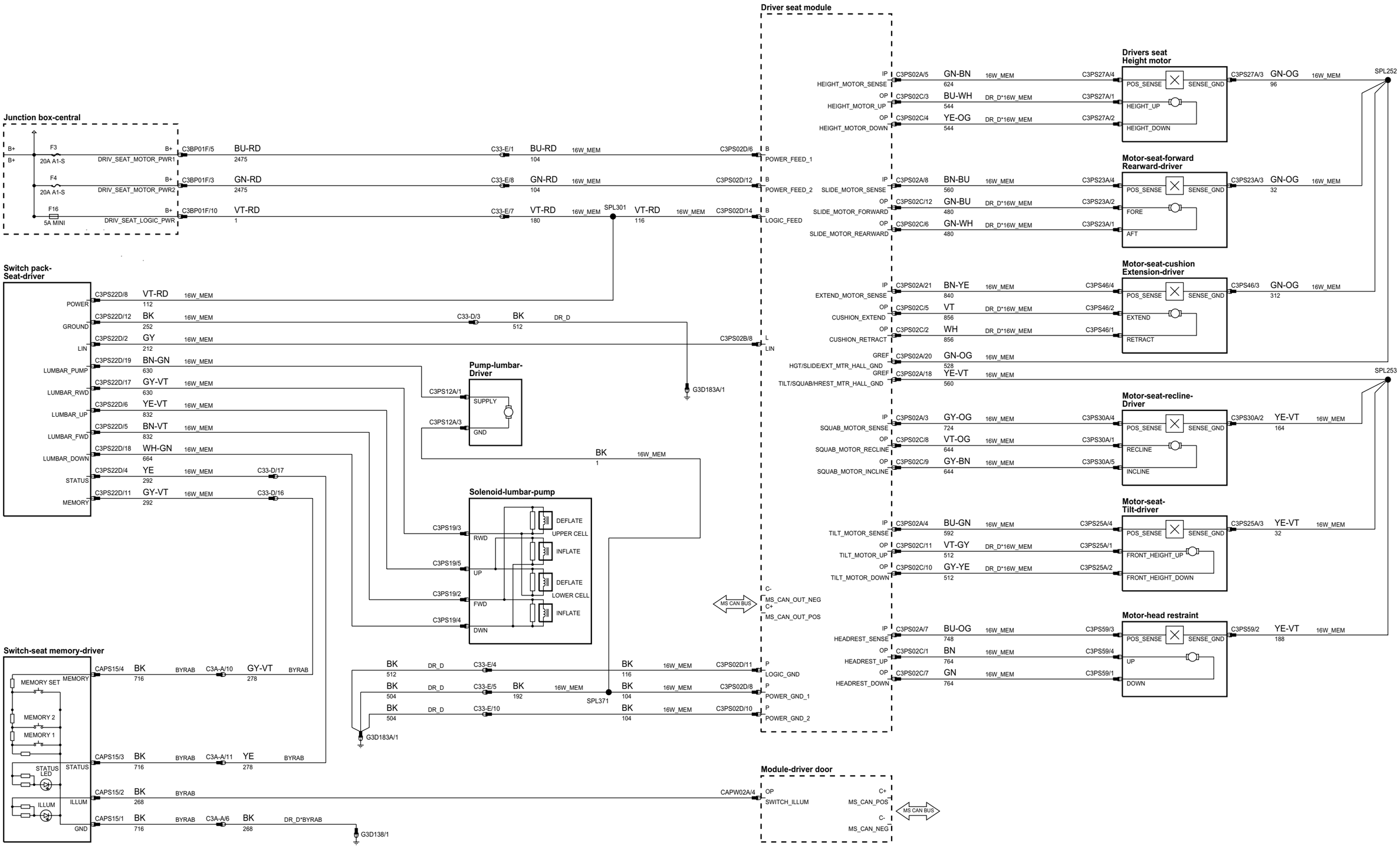

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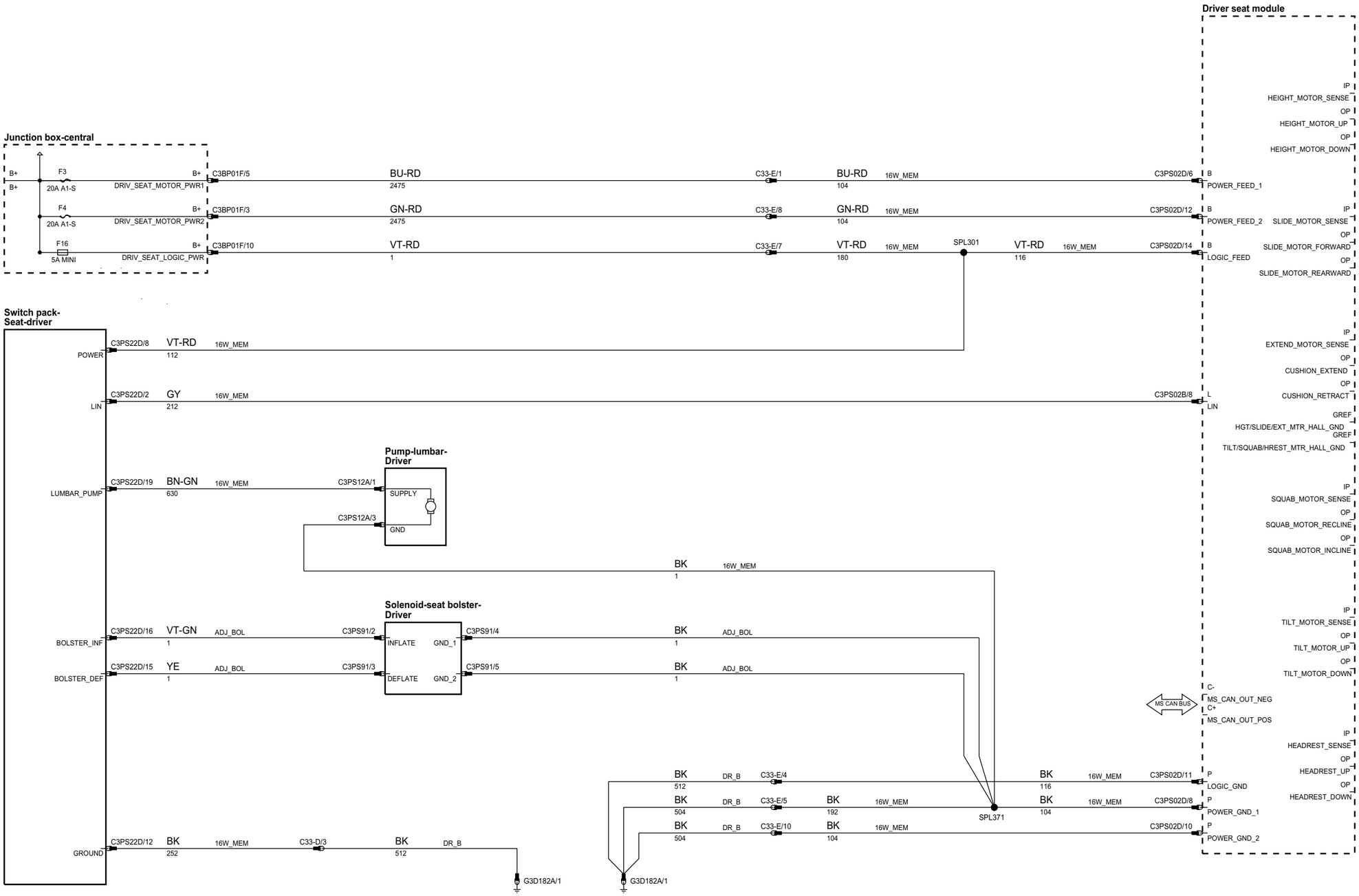

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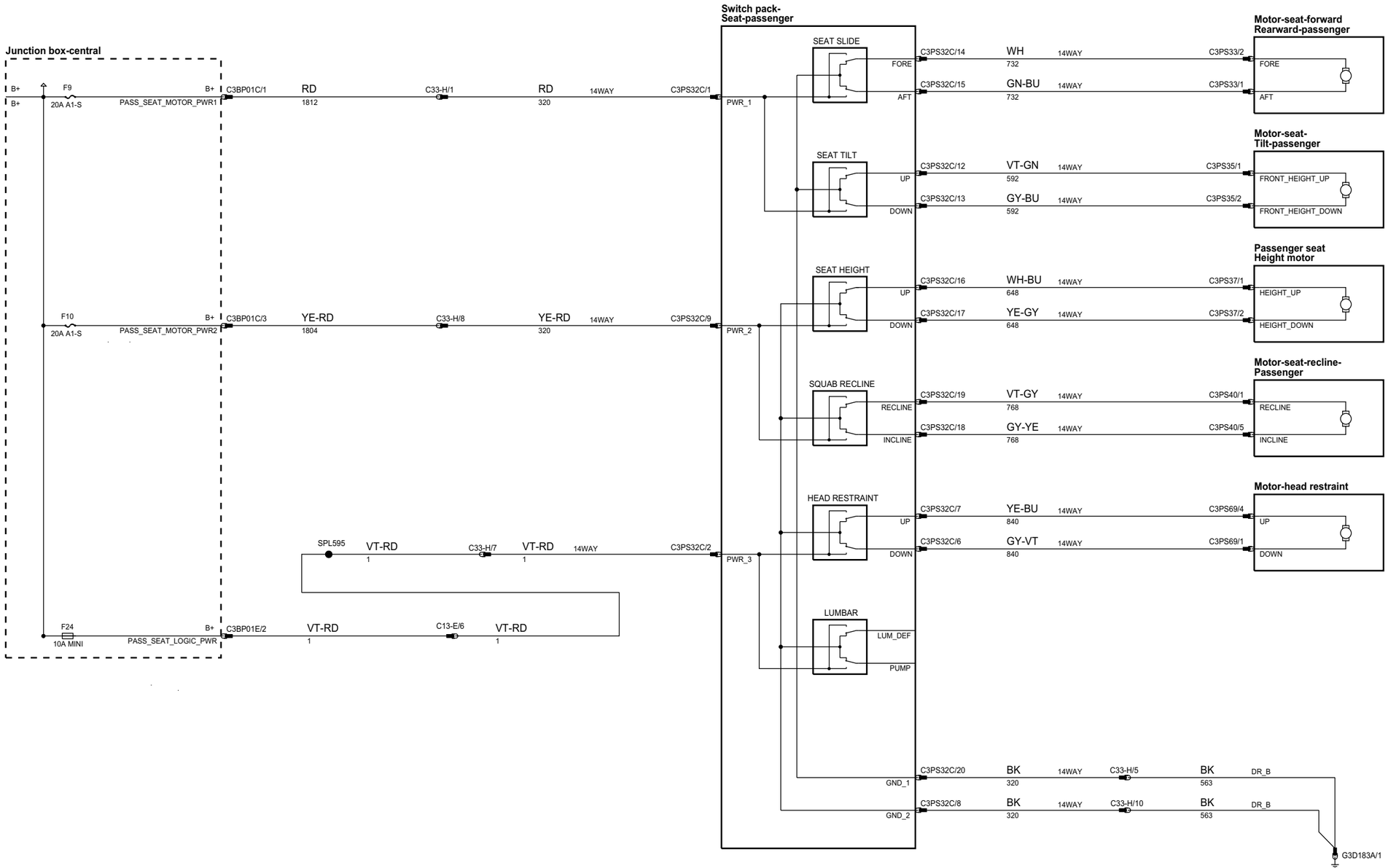

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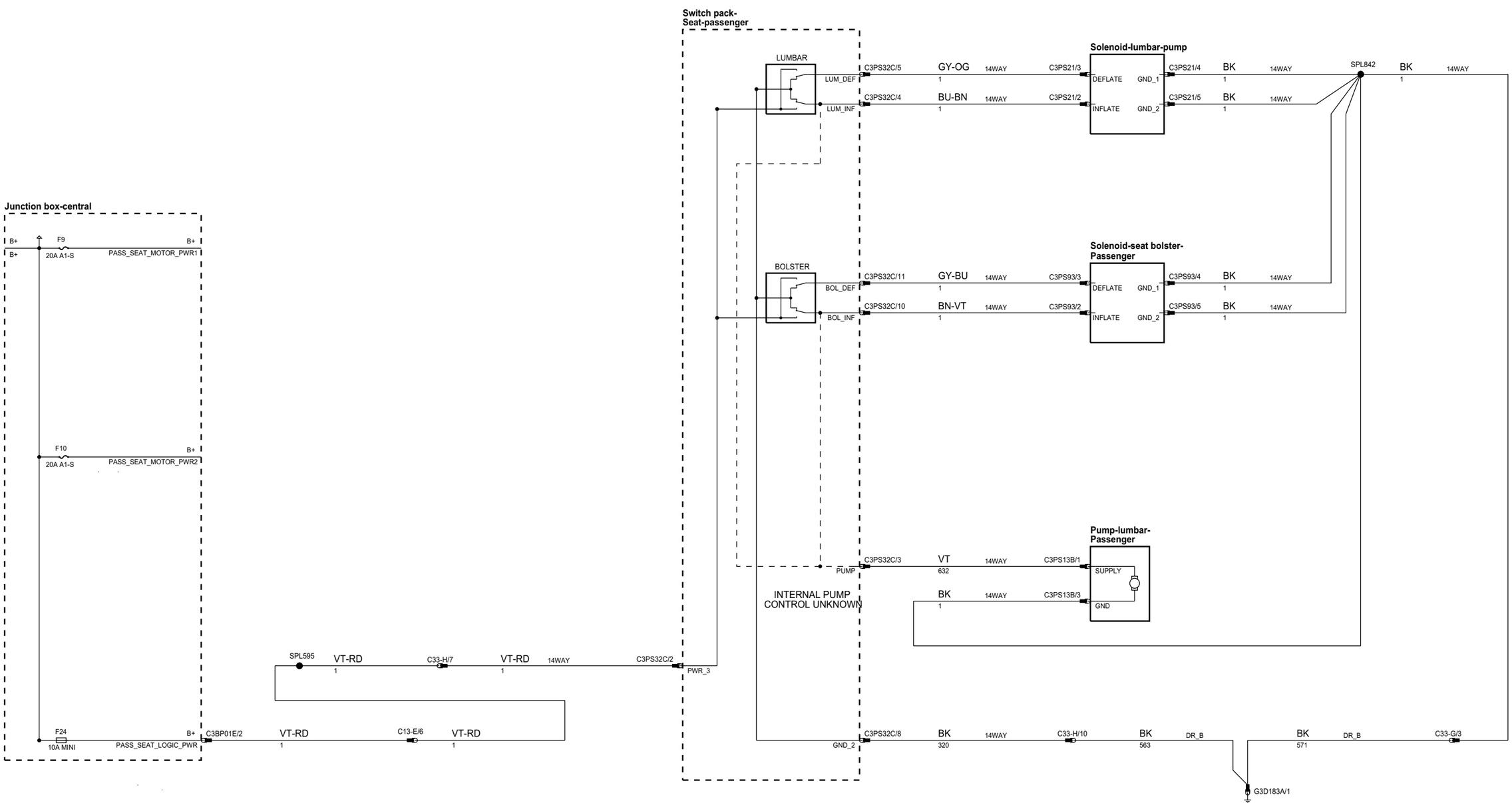

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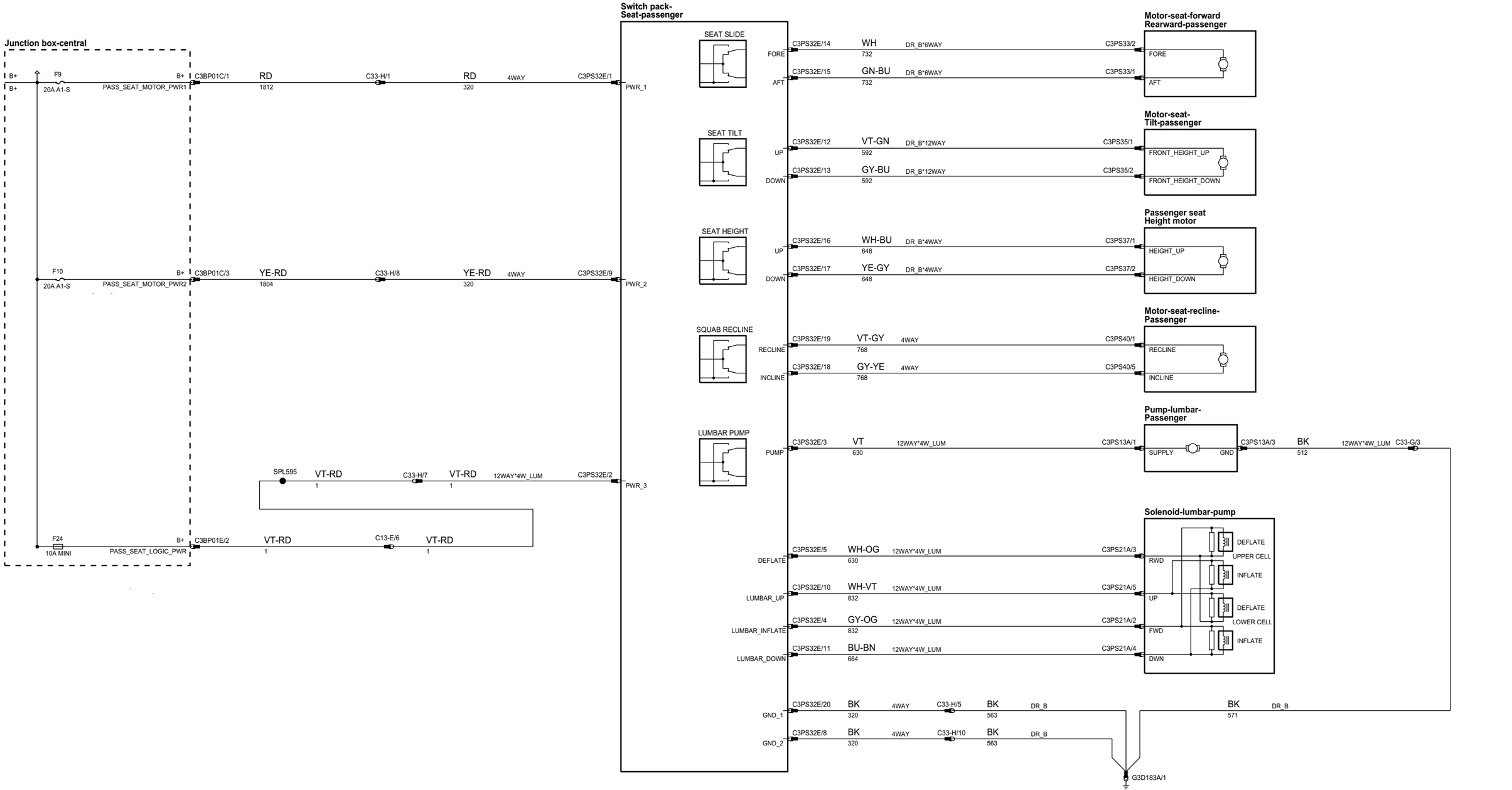

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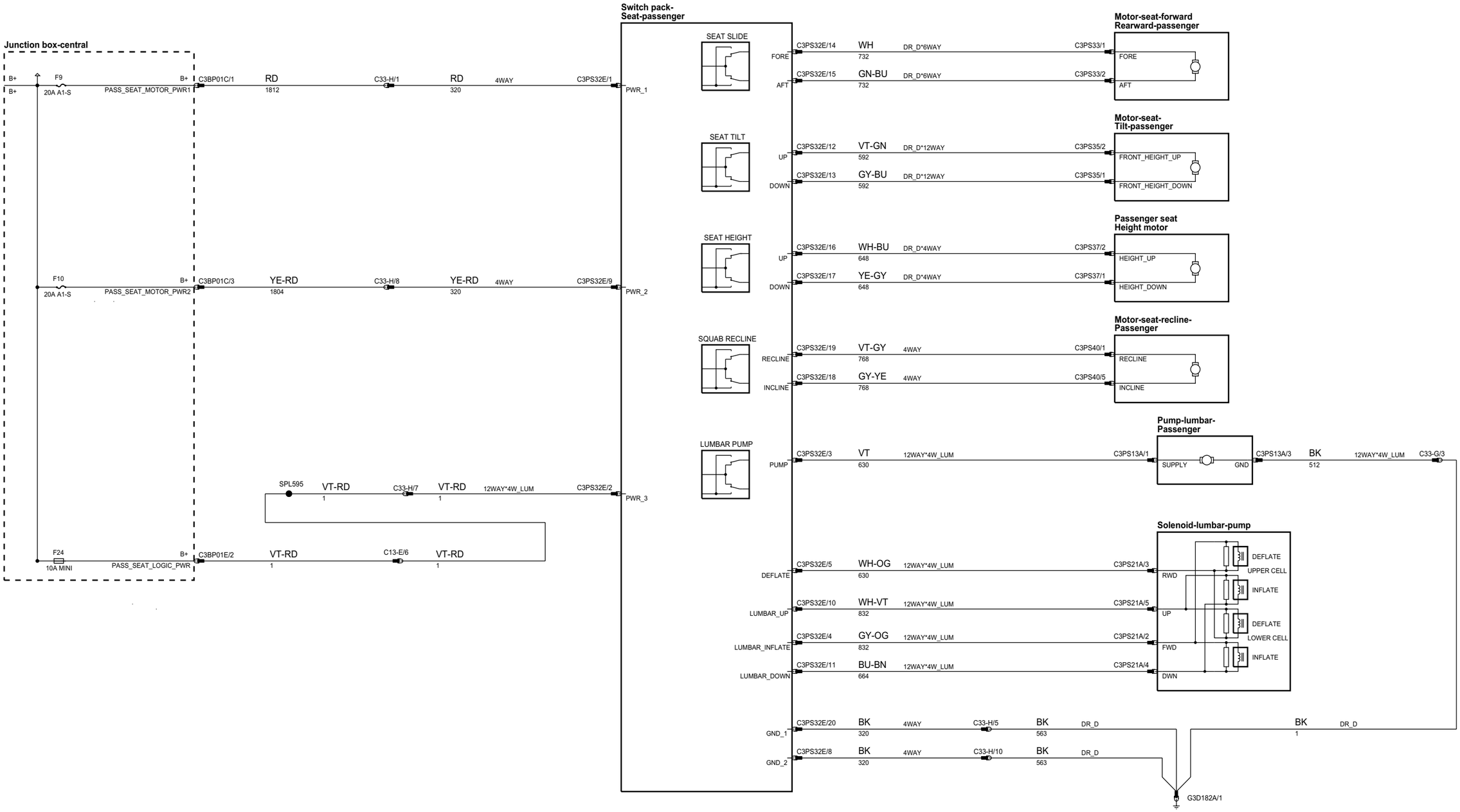

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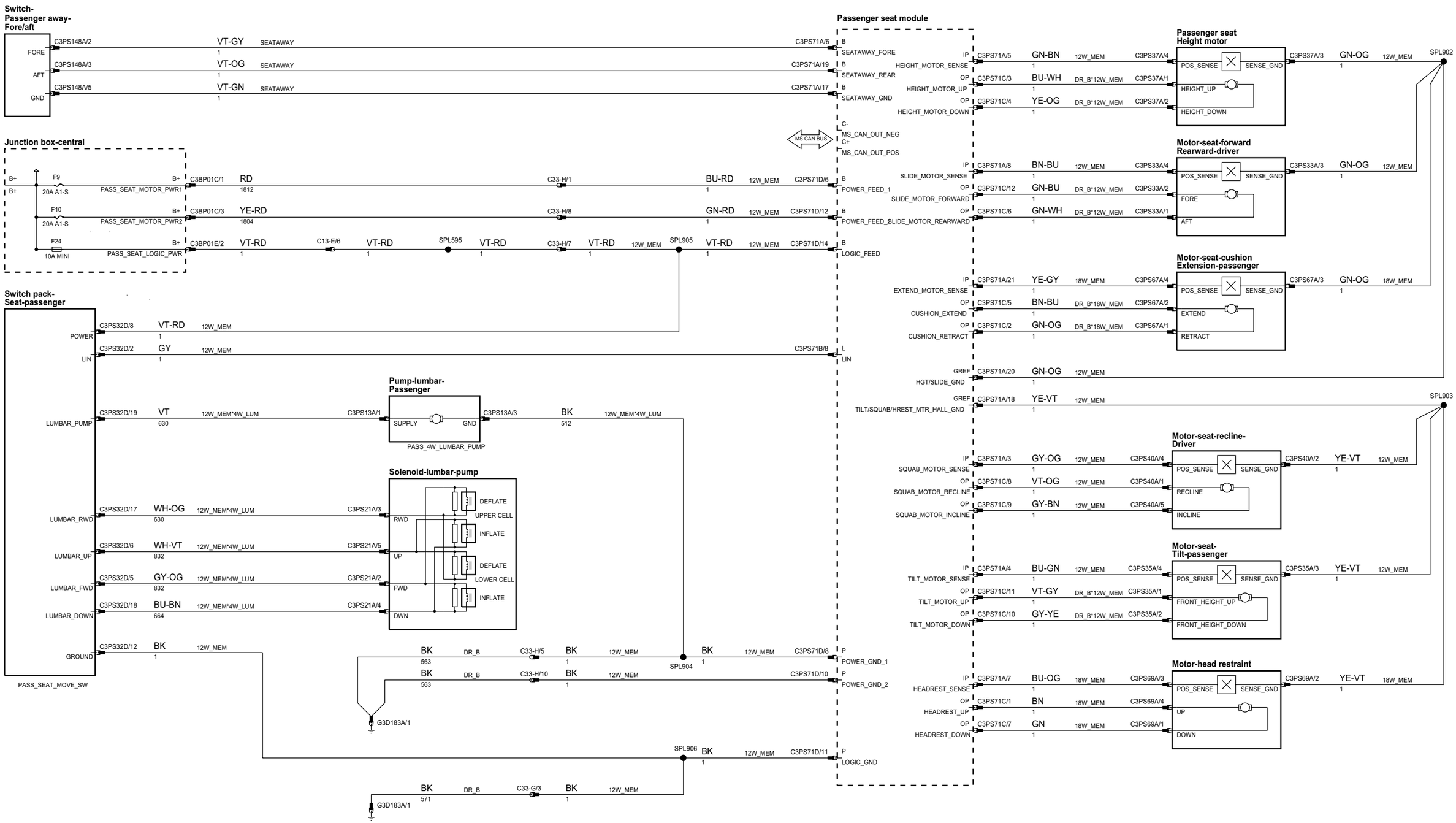

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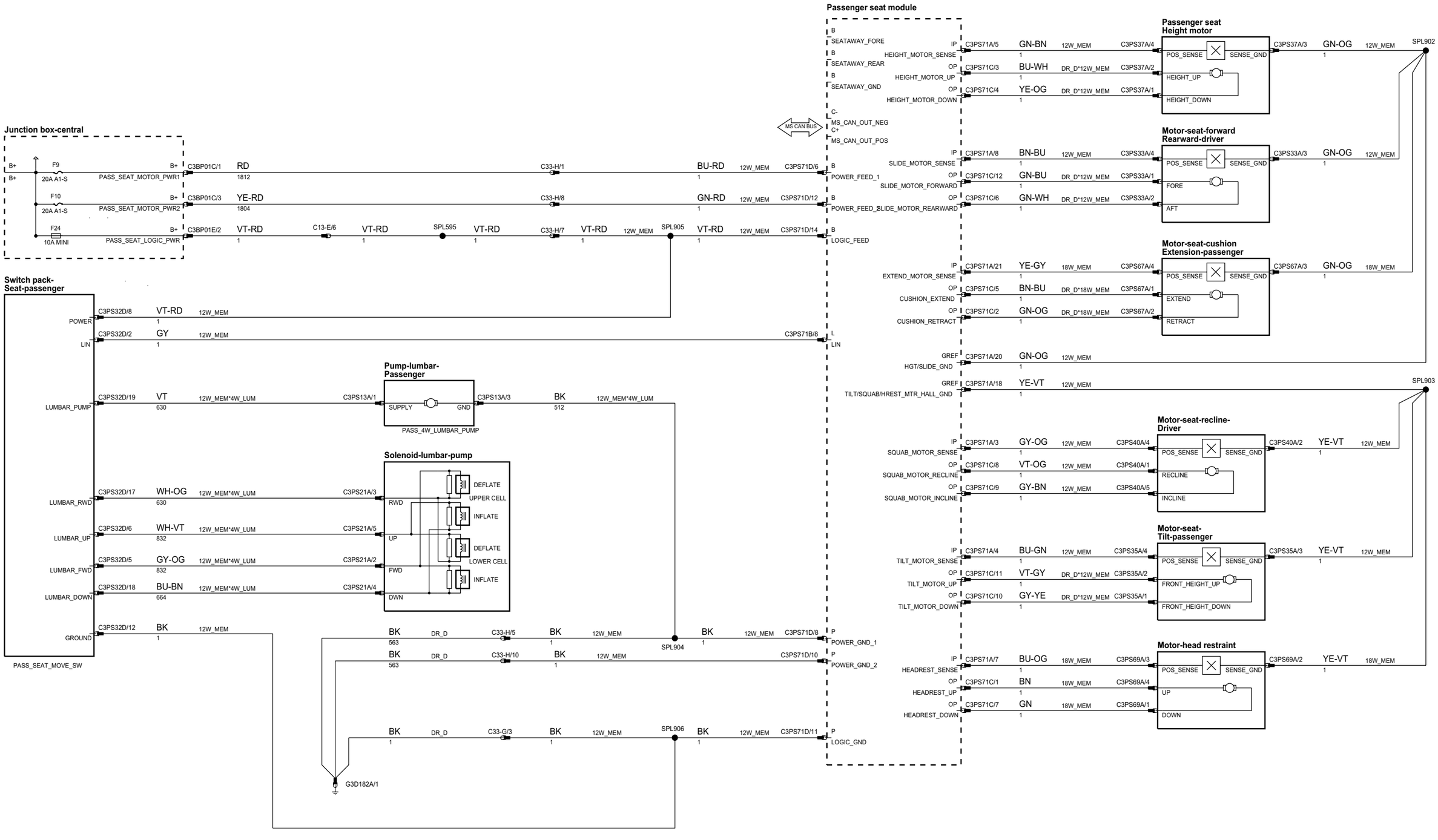

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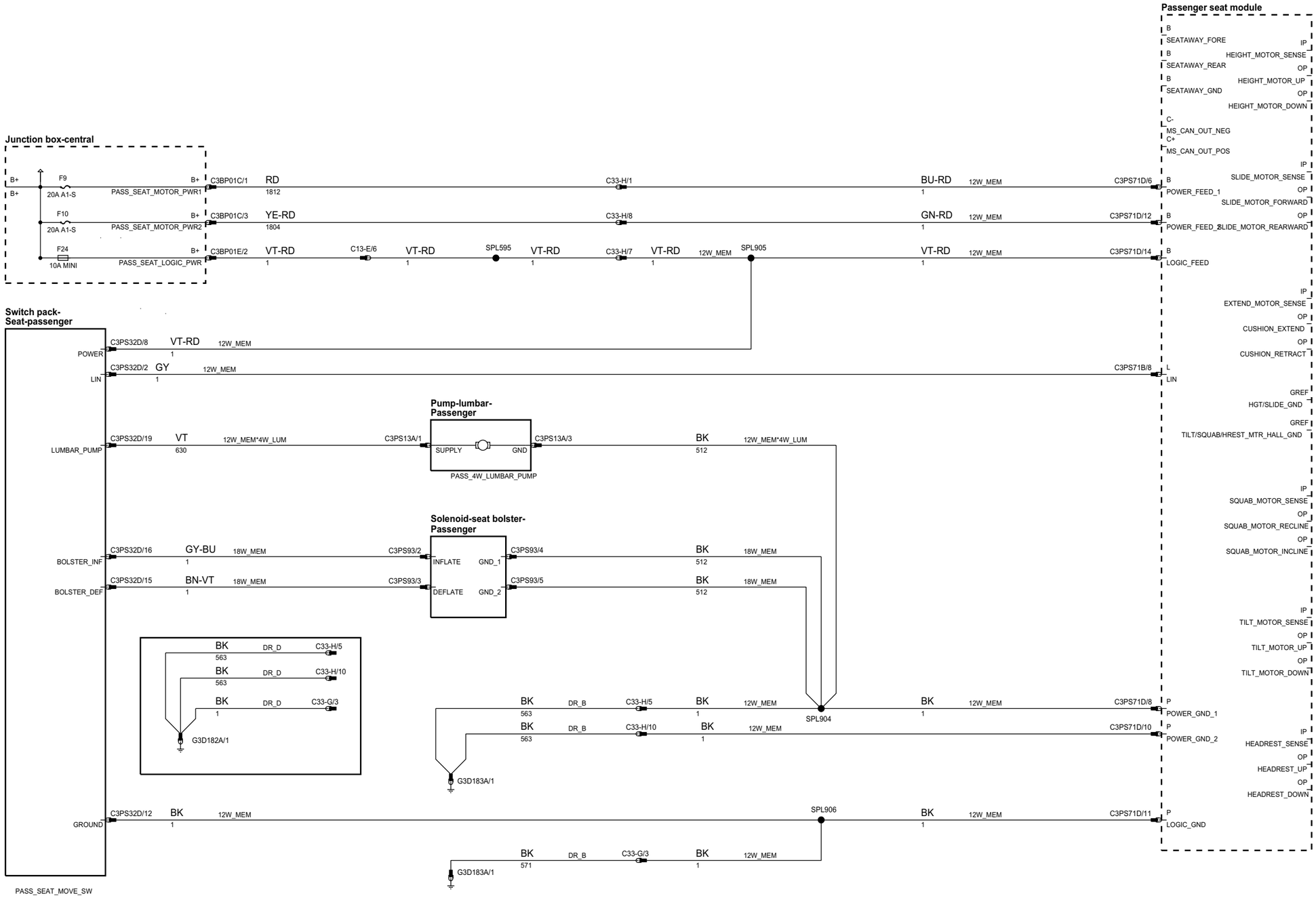

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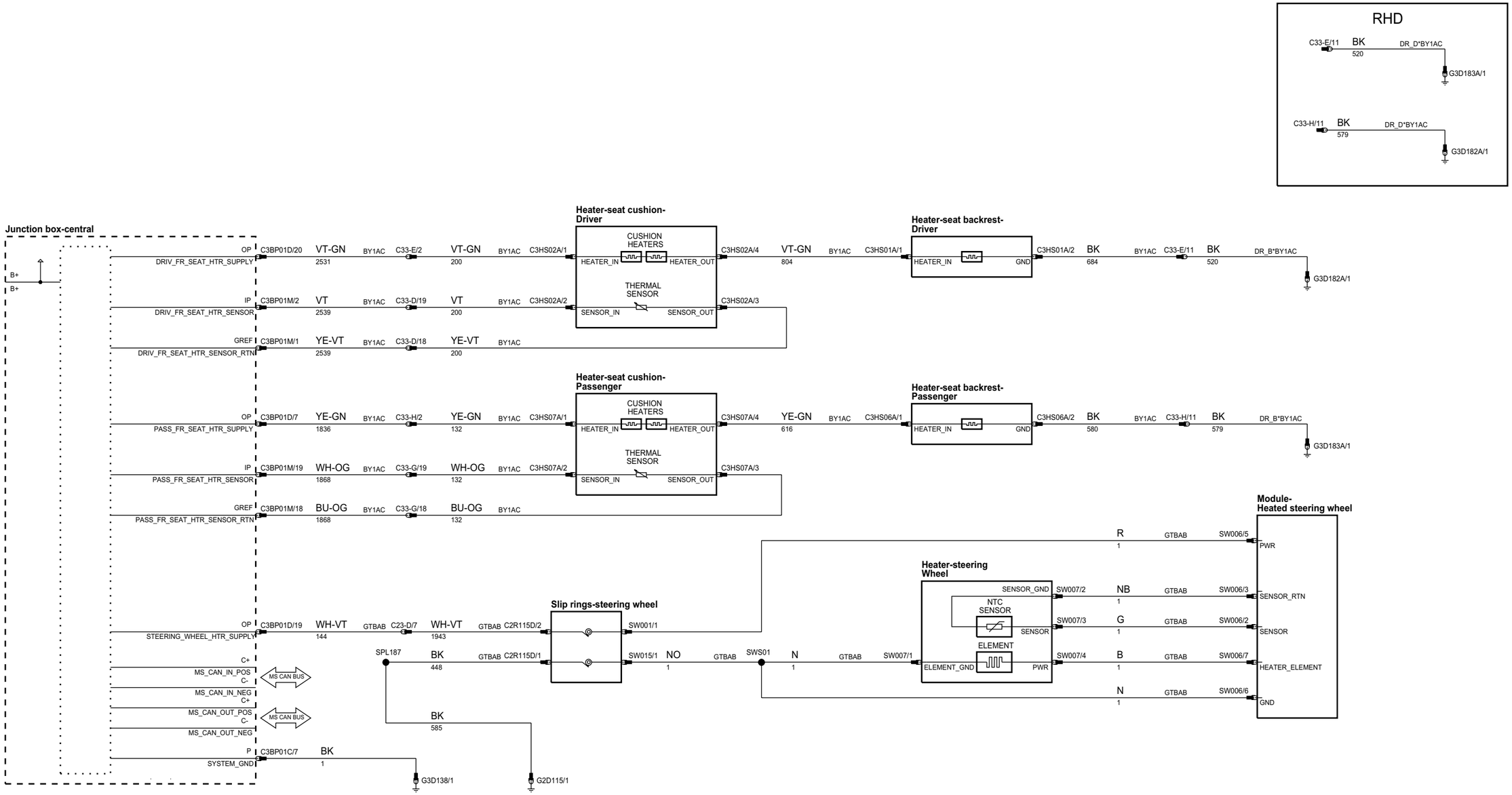

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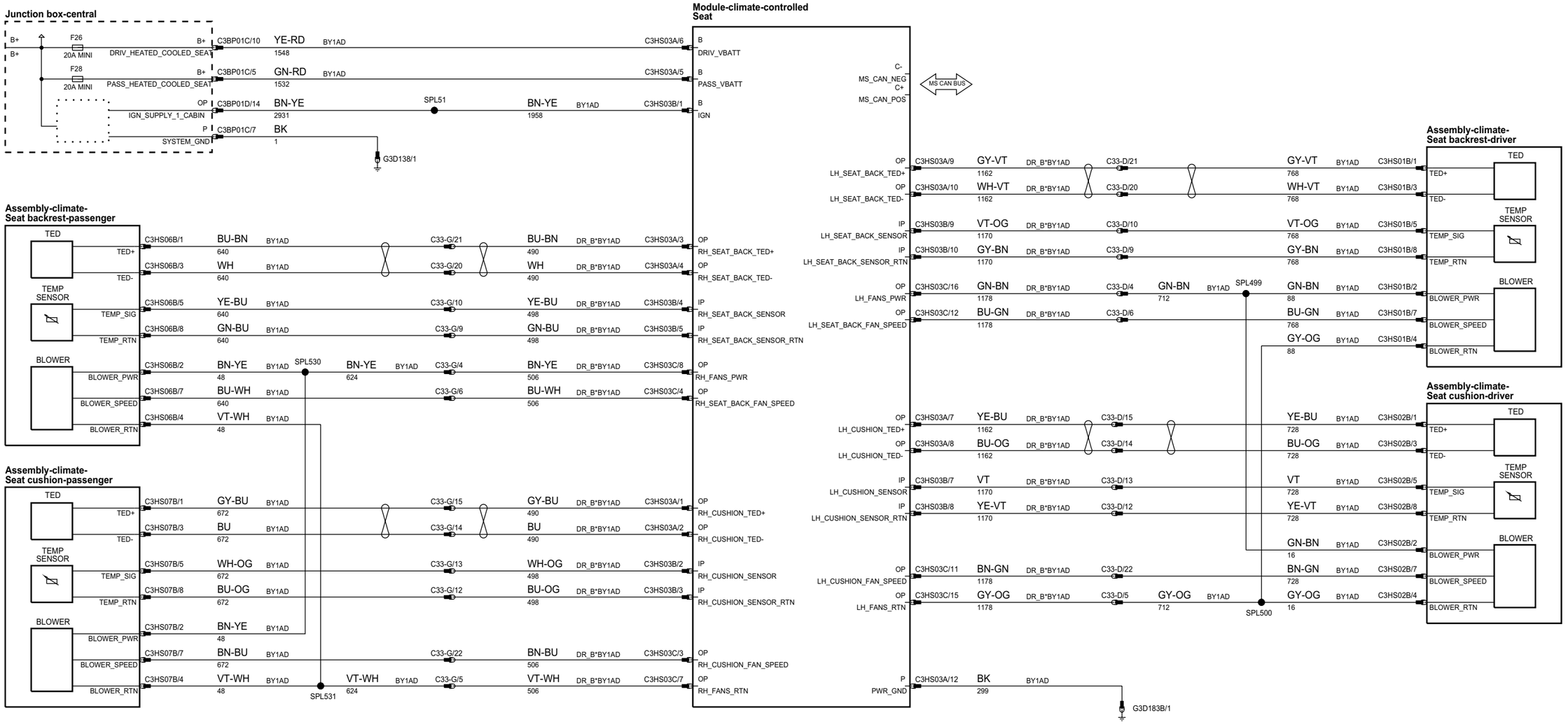

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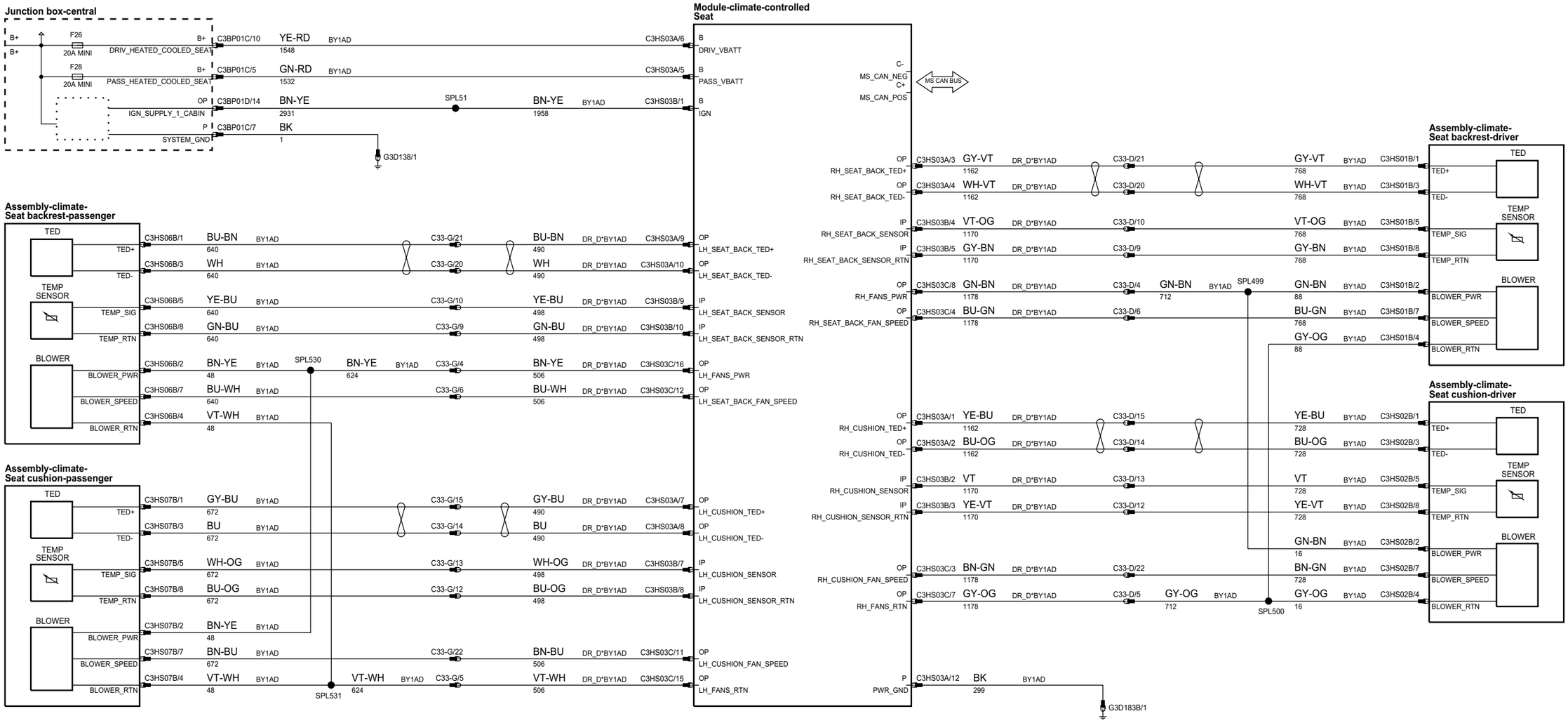

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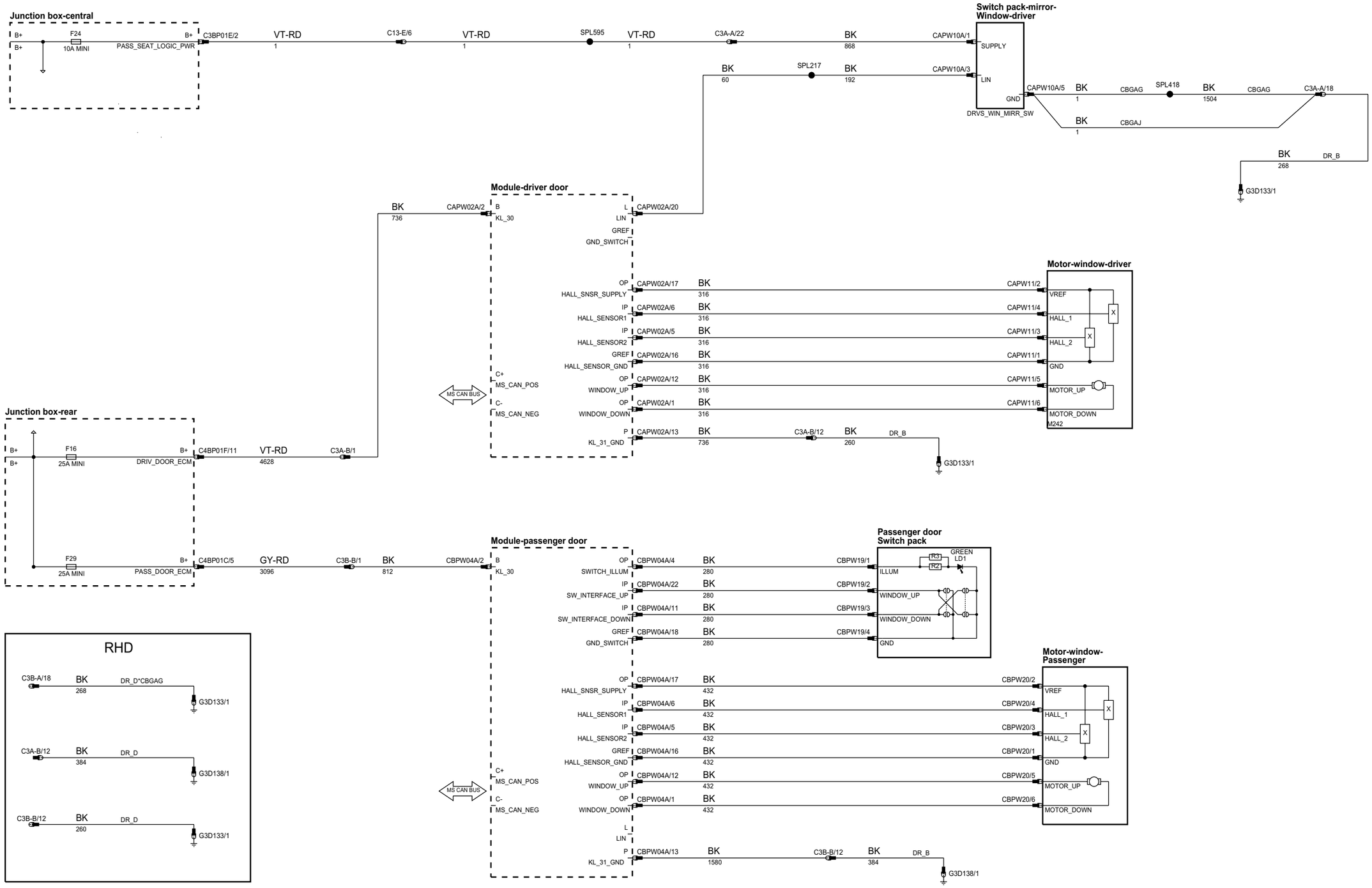

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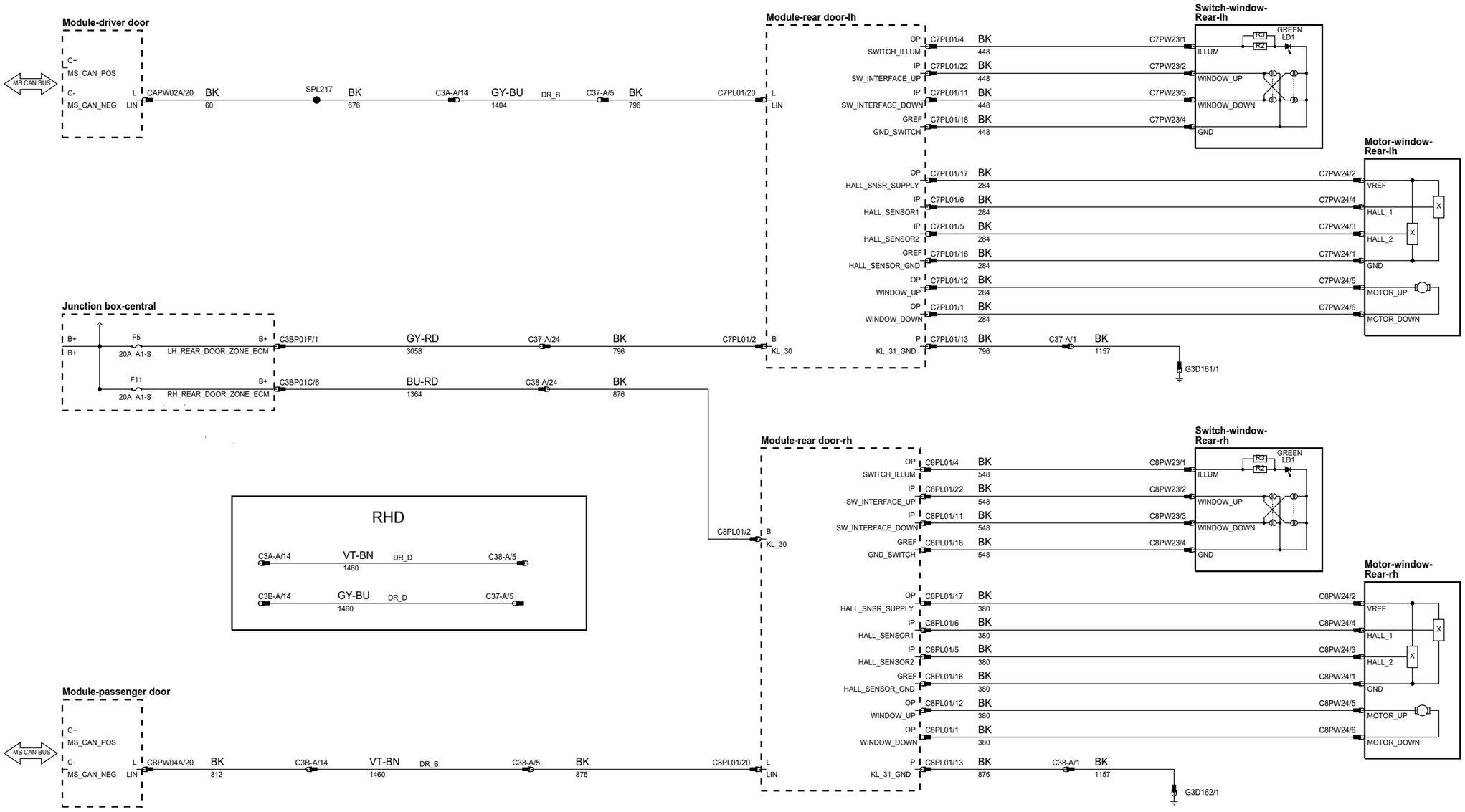

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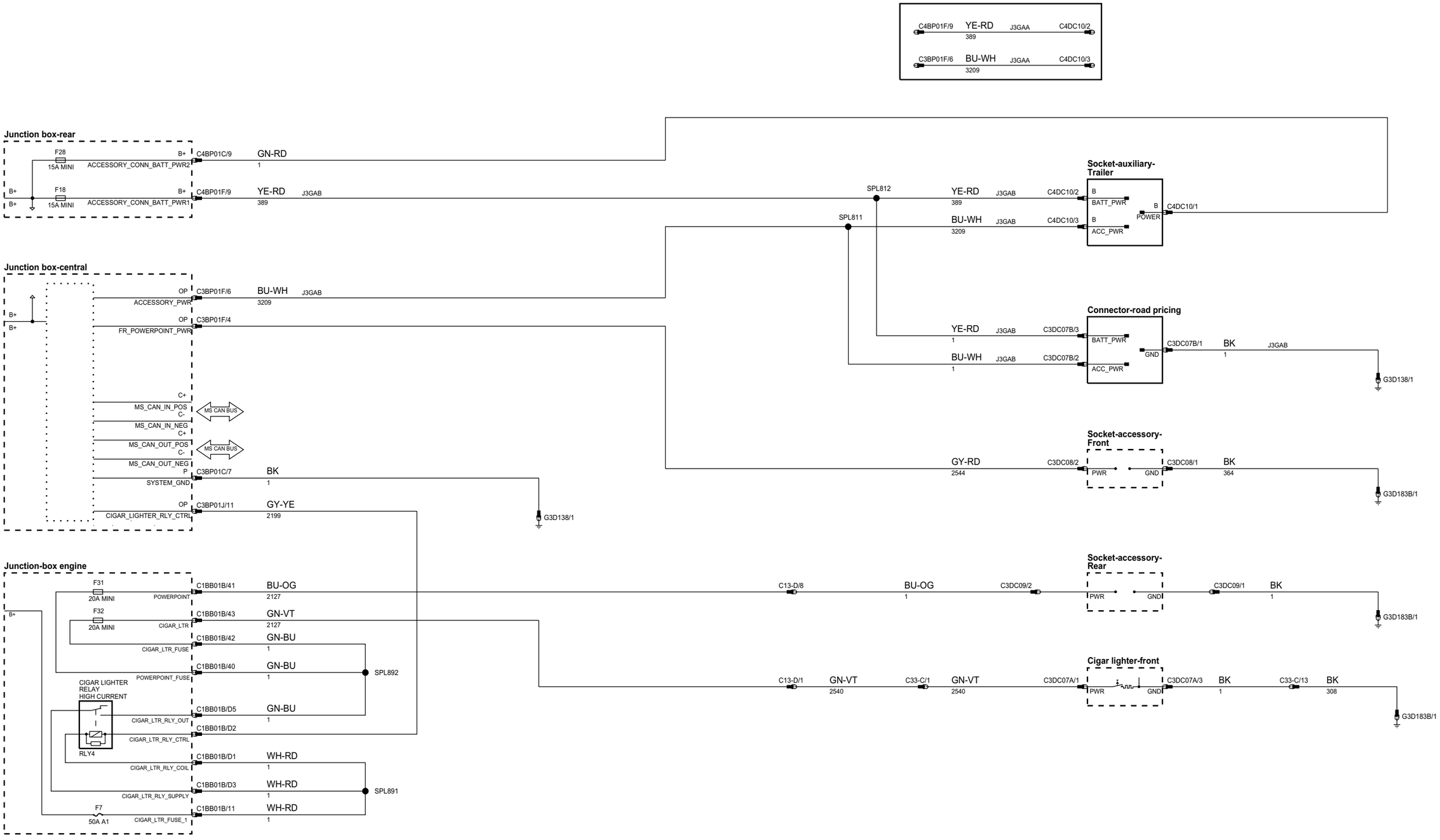

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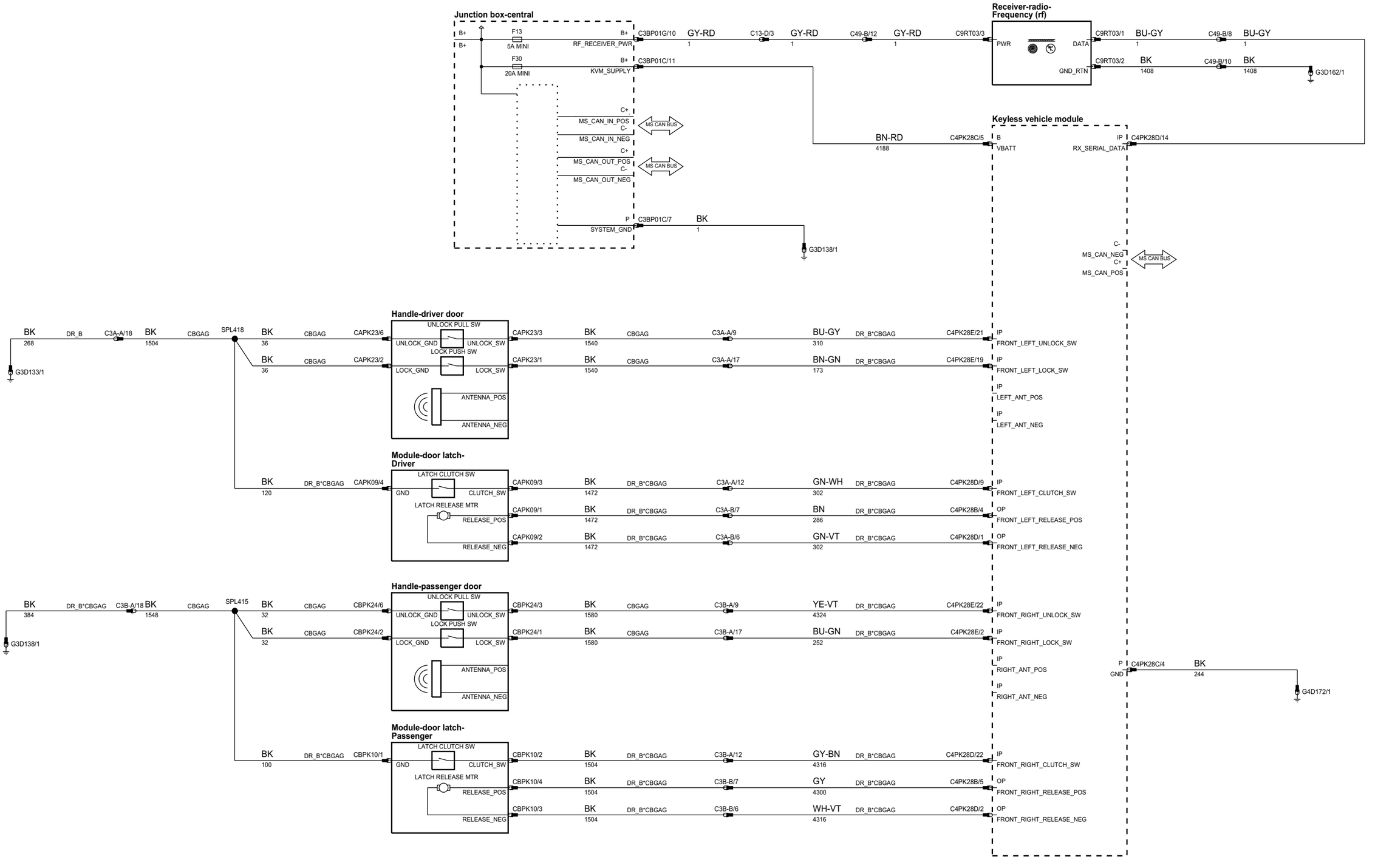

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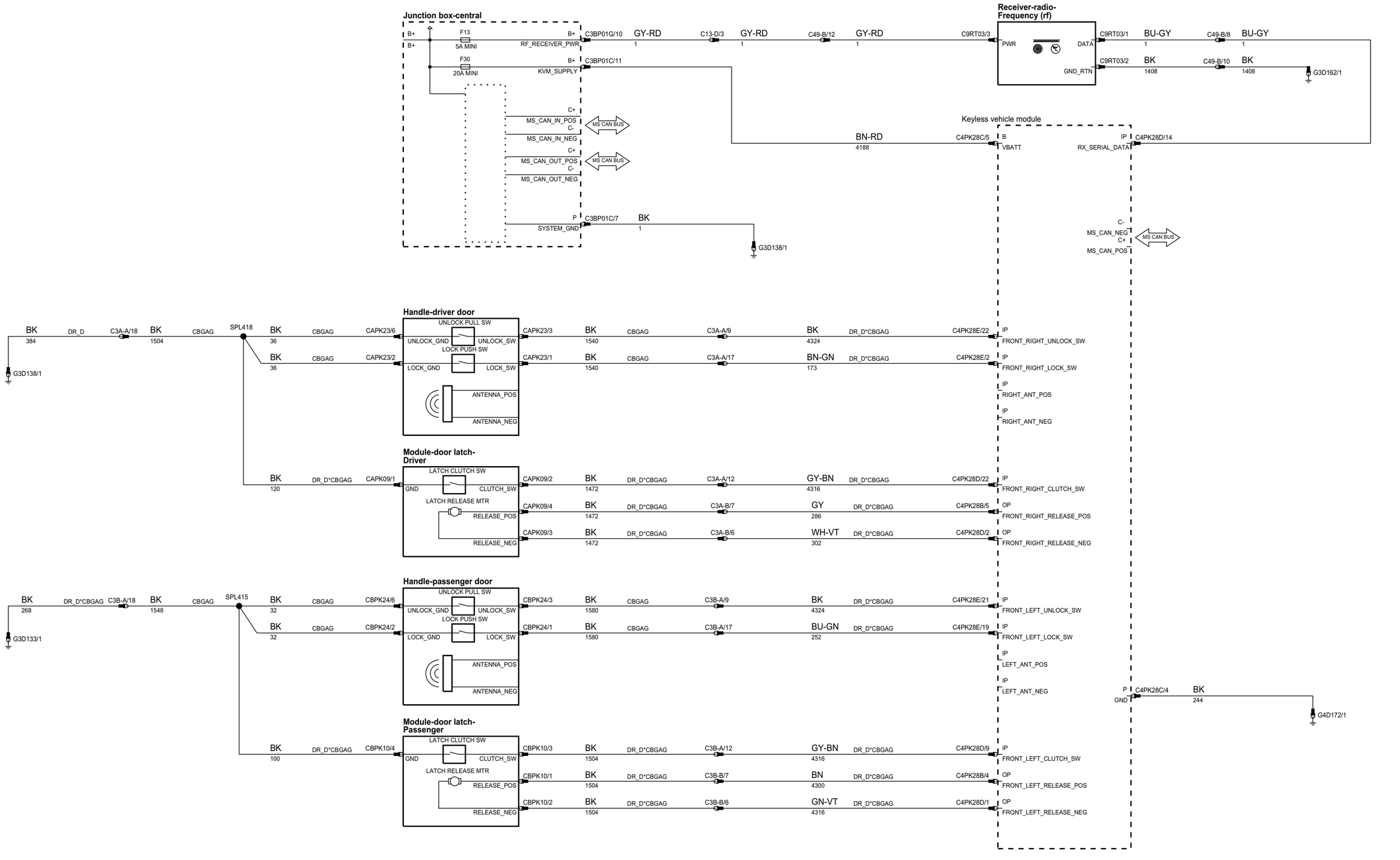

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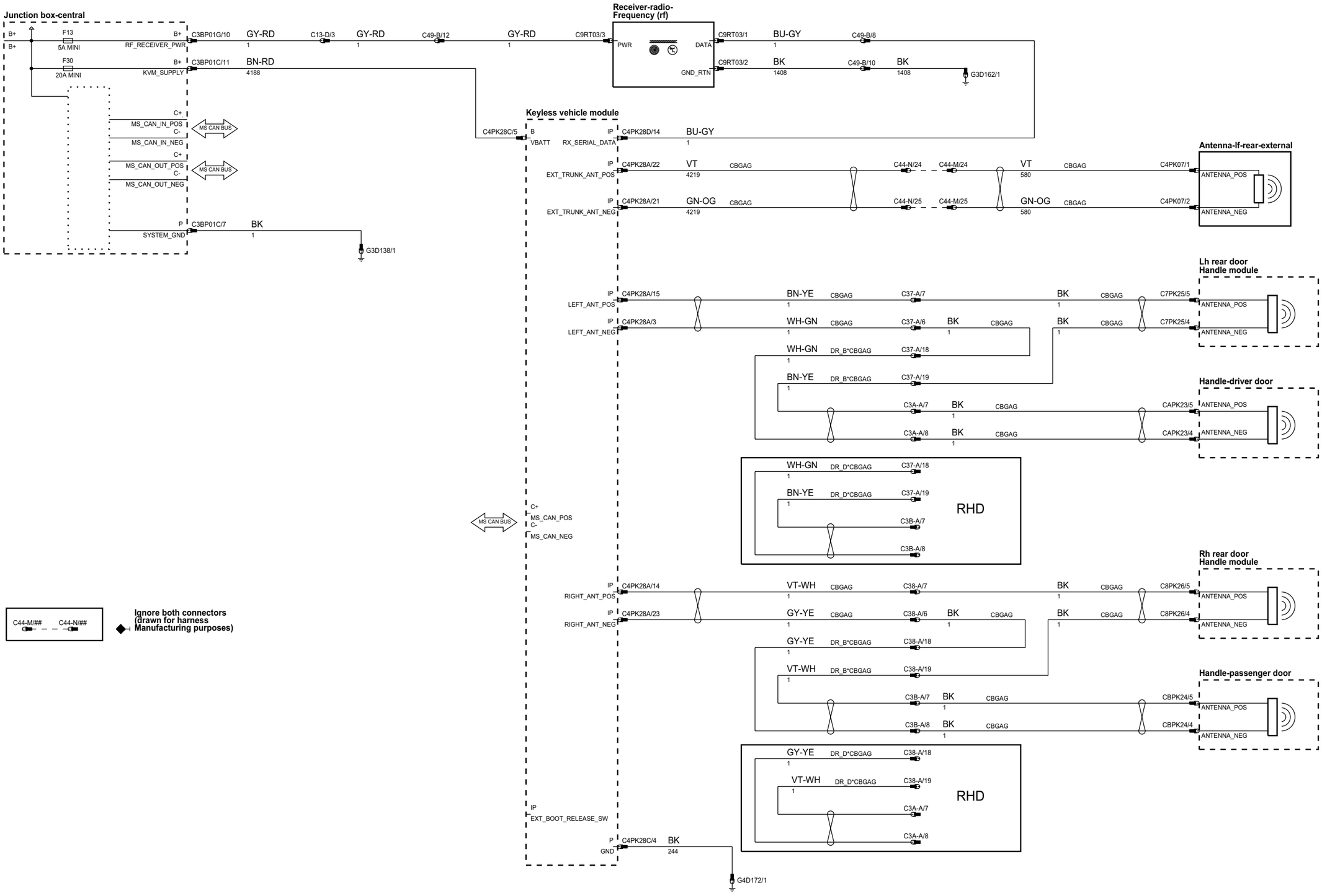

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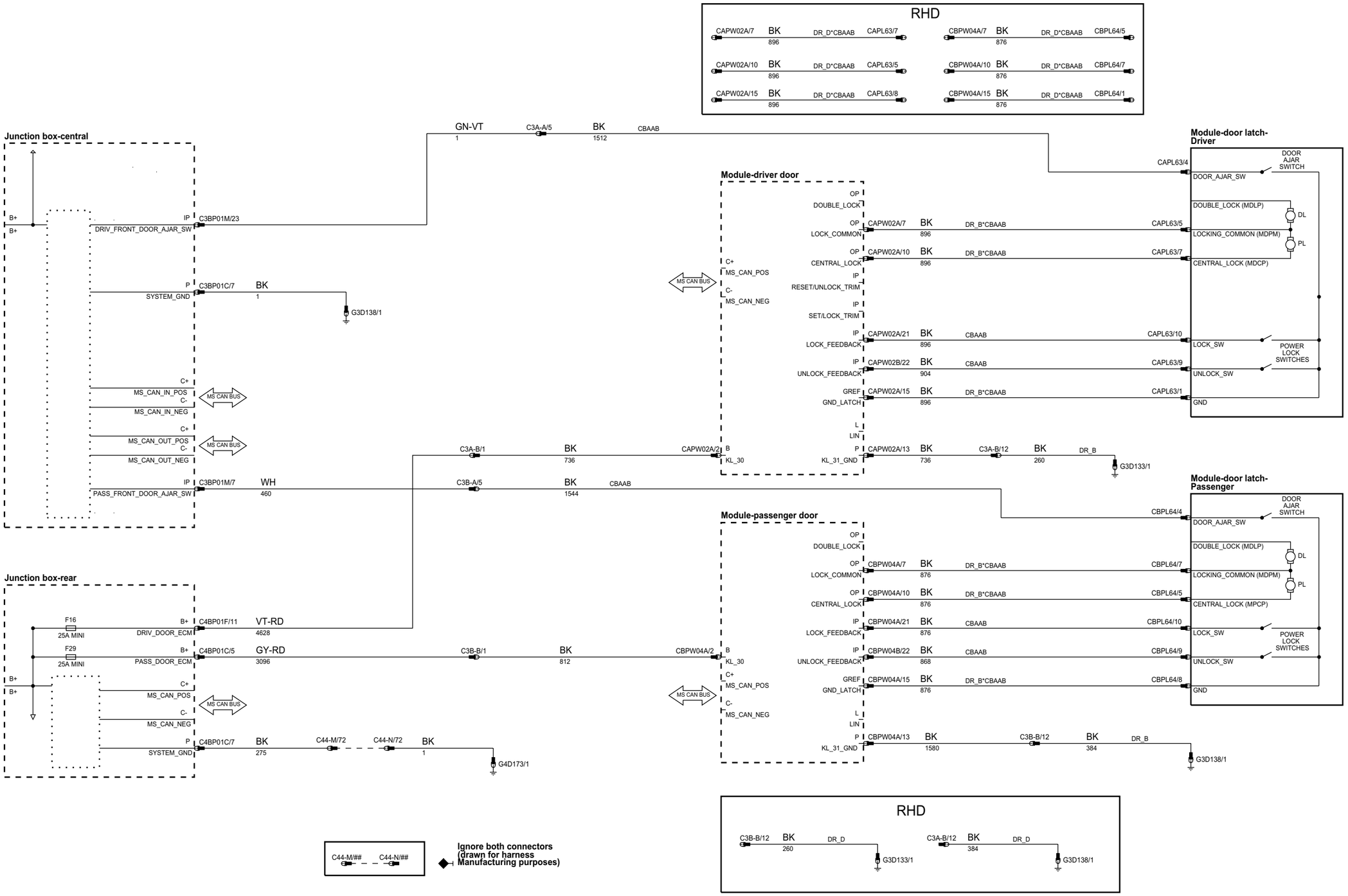

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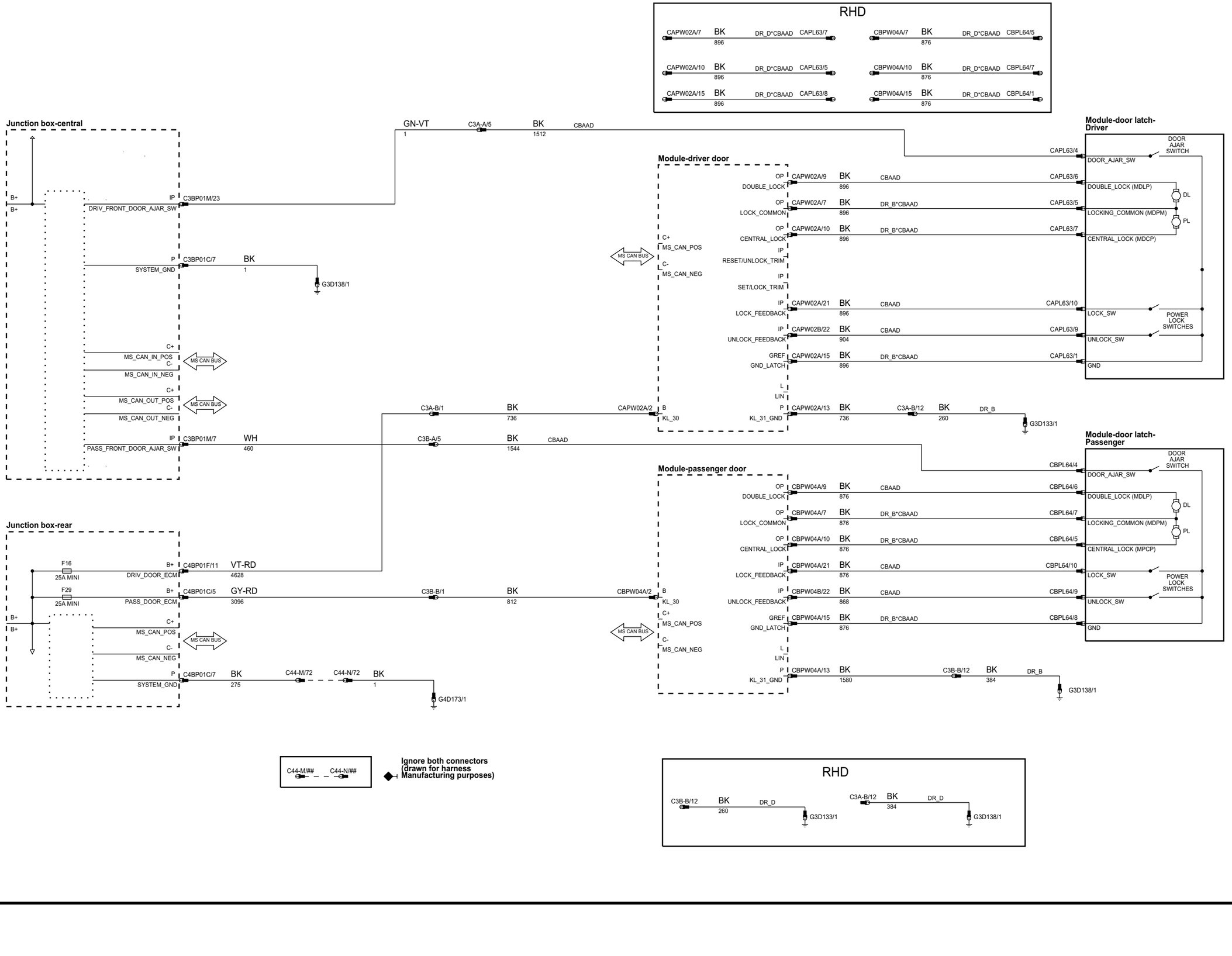

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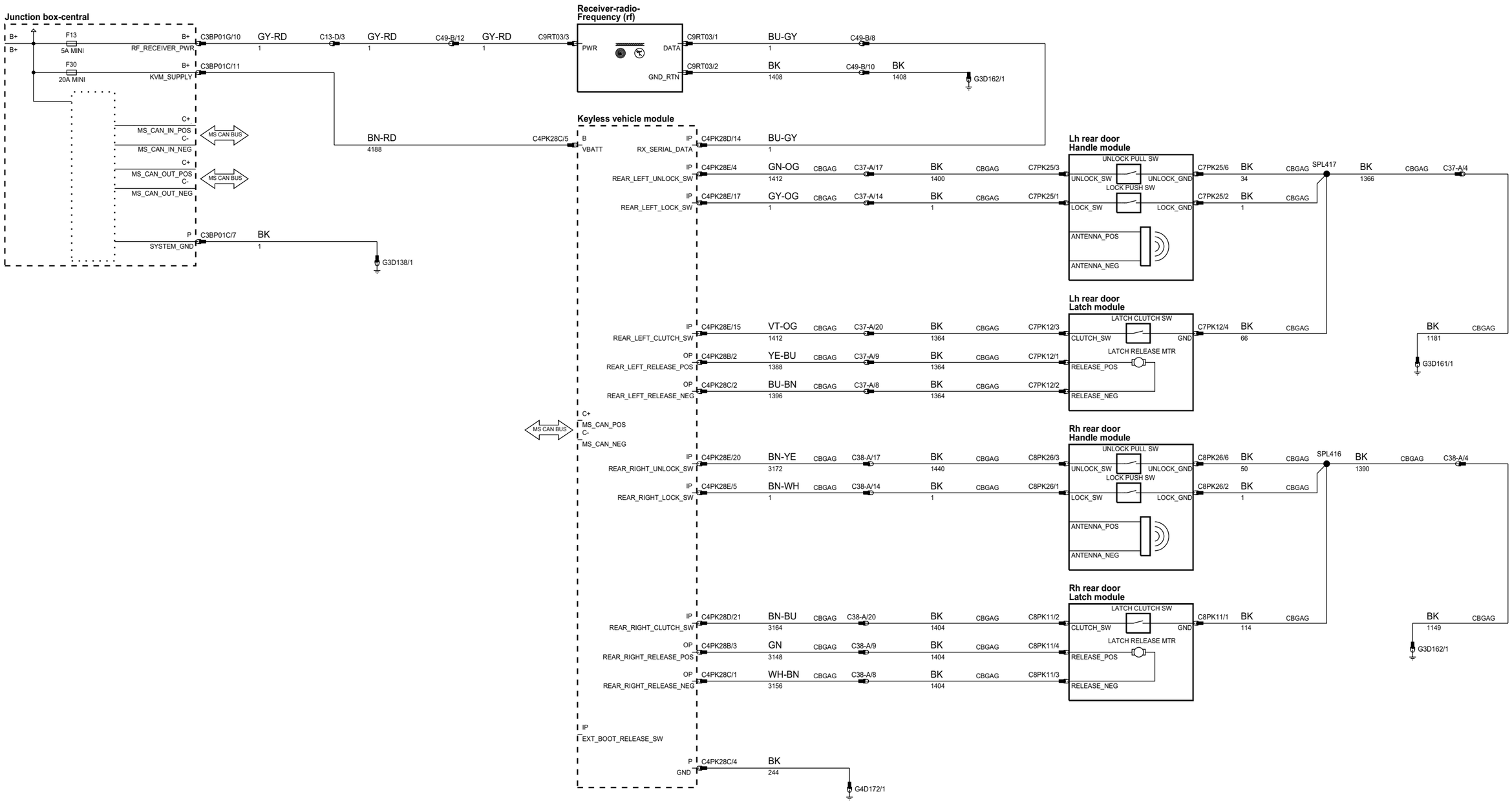

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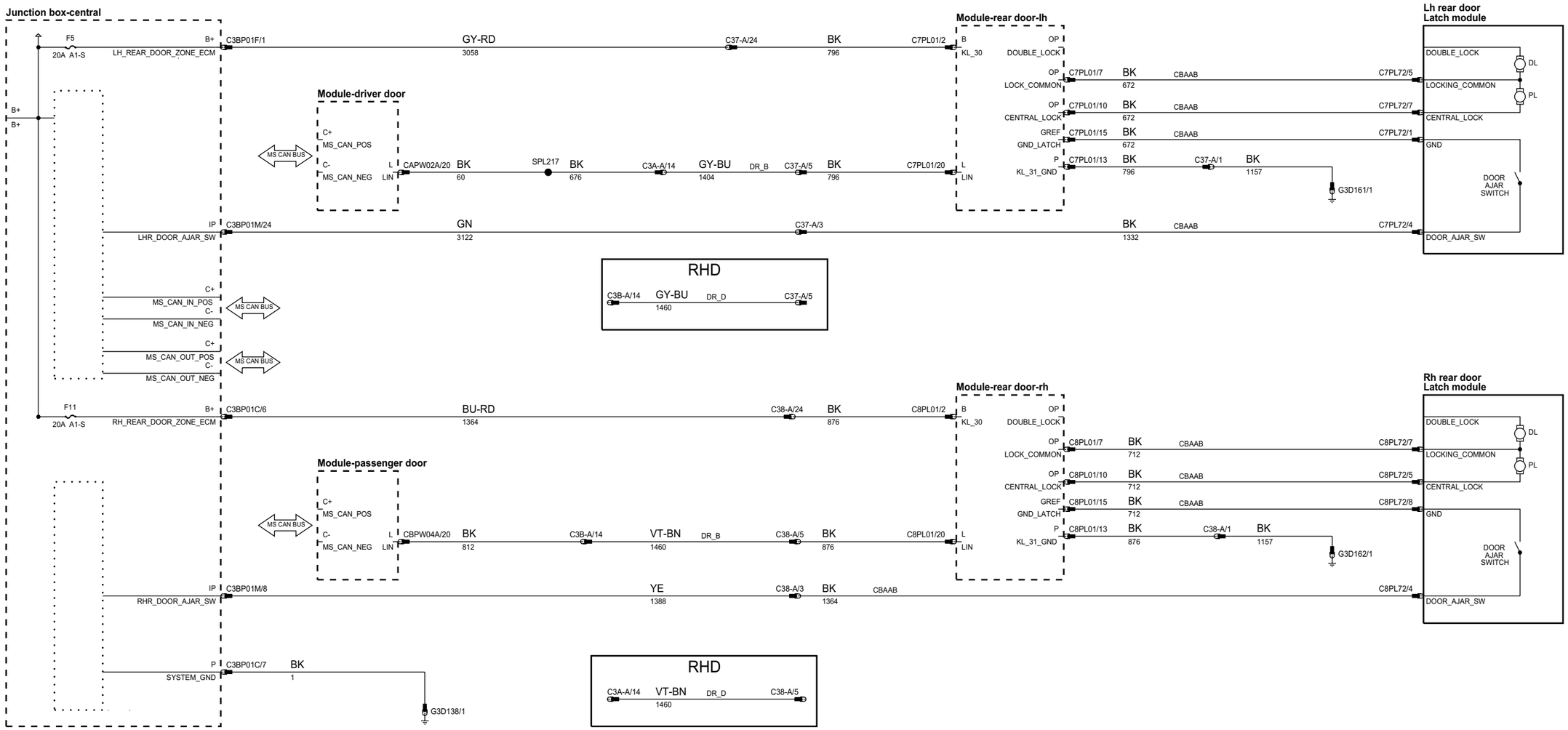

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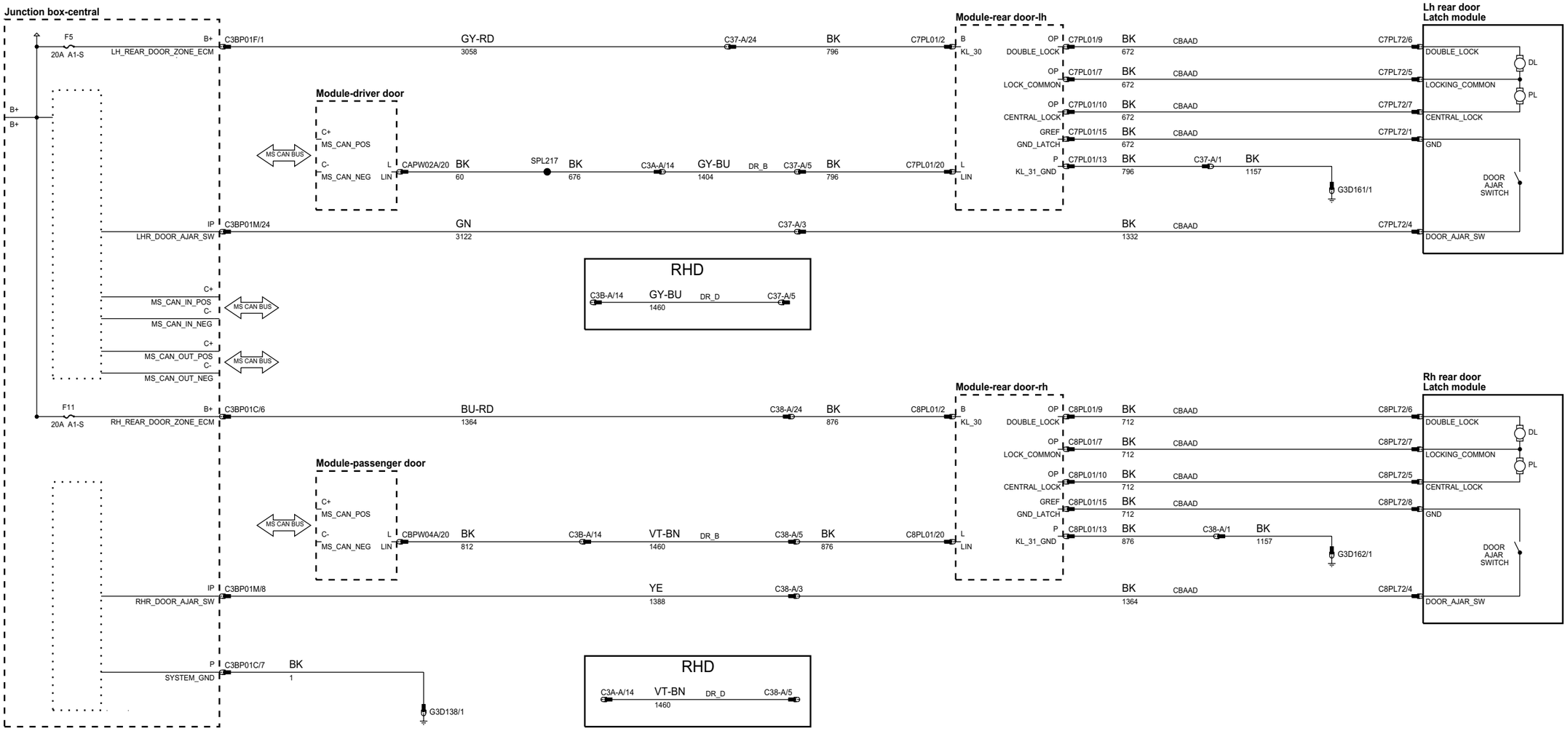

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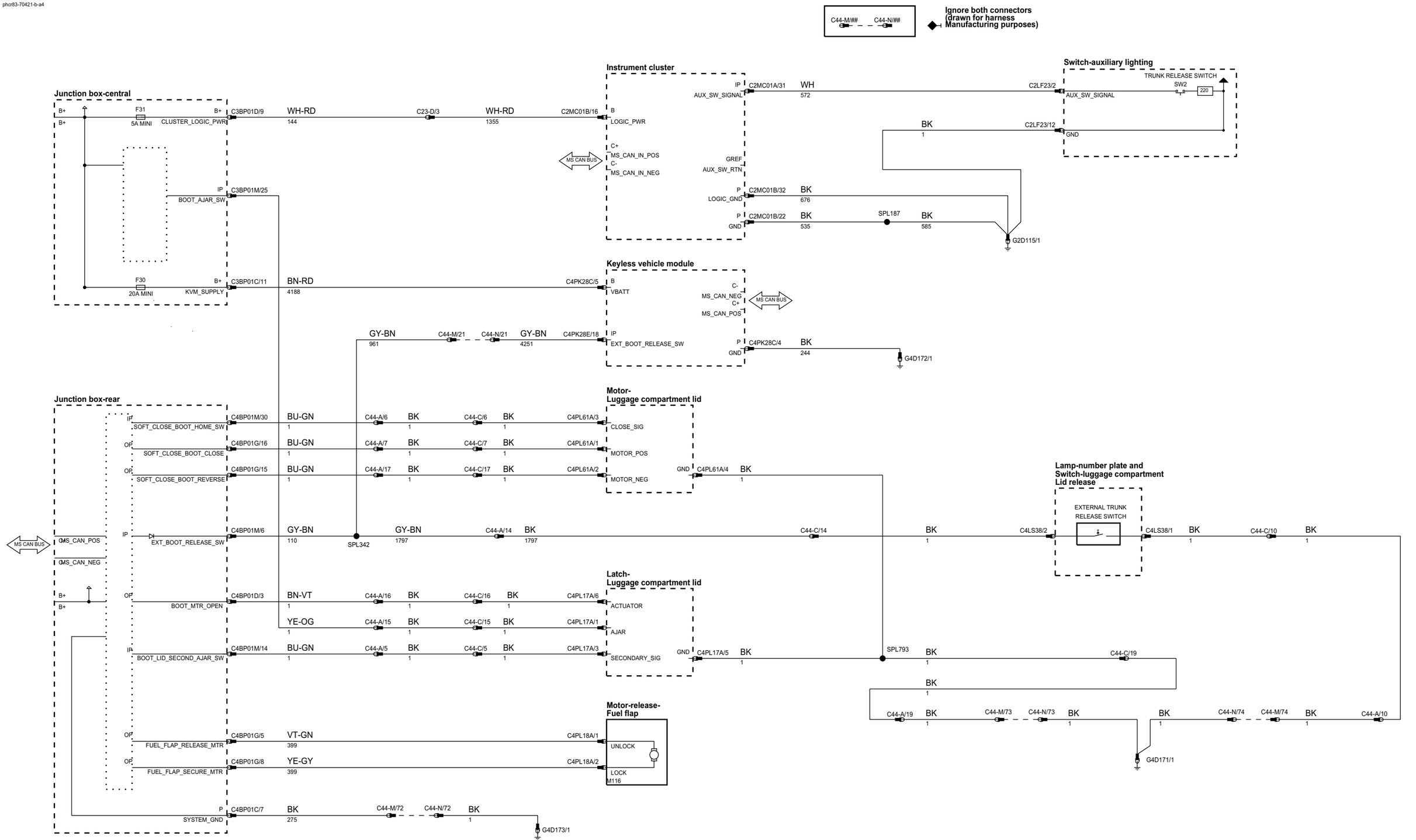
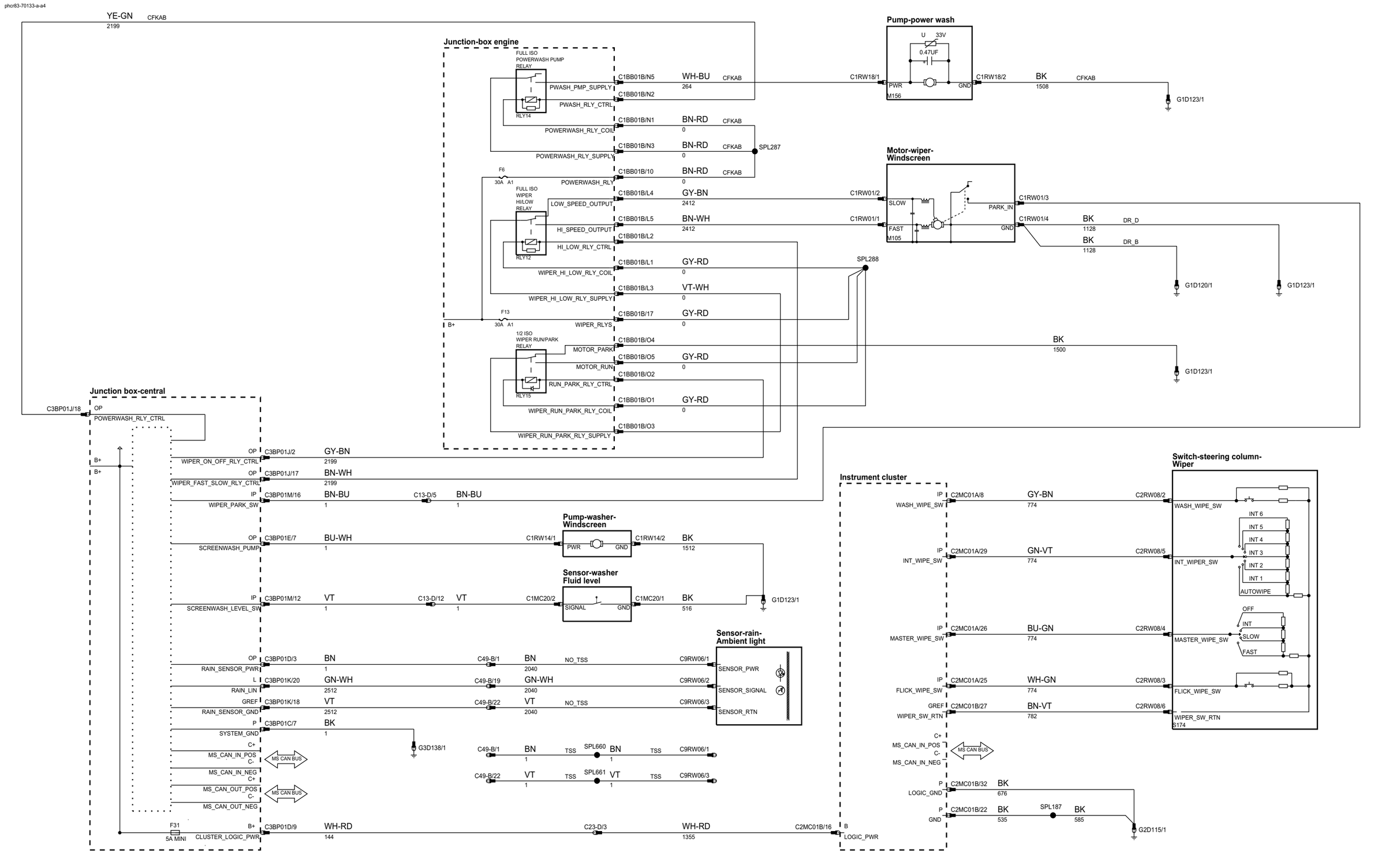
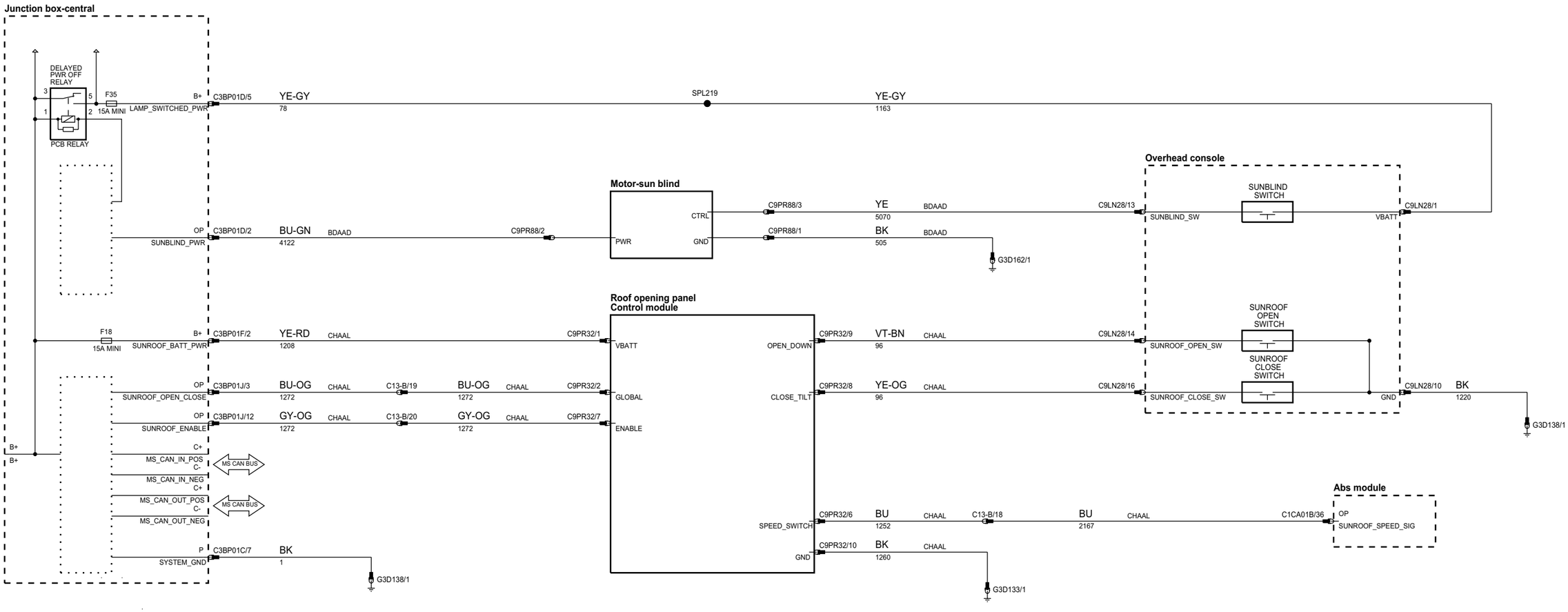



phcr83-70133-a-a4
YE-GN CFKAB
2199
Junction-box engine
FULL ISO POWERWASH PUMP RELAY
RLY14
C1BB01B/N5 WH-BU CFKAB
264
PWASH_PMP_SUPPLY
C1BB01B/N2
PWASH_RLY_CTRL
C1BB01B/N1 BN-RD CFKAB
0
POWERWASH_RLY_COIL
C1BB01B/N3 BN-RD CFKAB
0
POWERWASH_RLY_SUPPLY
SPL287
F6
30A A1
C1BB01B/10 BN-RD CFKAB
0
POWERWASH_RLY
FULL ISO WIPER HI/LOW RELAY
RLY12
C1BB01B/L4 GY-BN
2412
LOW_SPEED_OUTPUT
C1BB01B/L5 BN-WH
2412
HI_SPEED_OUTPUT
C1BB01B/L2
HI_LOW_RLY_CTRL
C1BB01B/L1 GY-RD
0
WIPER_HI_LOW_RLY_COIL
C1BB01B/L3 VT-WH
0
WIPER_HI_LOW_RLY_SUPPLY
F13
30A A1
B+
C1BB01B/17 GY-RD
0
WIPER_RLYS
1/2 ISO WIPER RUN/PARK RELAY
RLY15
C1BB01B/O4
MOTOR_PARK
C1BB01B/O5 GY-RD
0
MOTOR_RUN
C1BB01B/O2
RUN_PARK_RLY_CTRL
C1BB01B/O1 GY-RD
0
WIPER_RUN_PARK_RLY_COIL
C1BB01B/O3
WIPER_RUN_PARK_RLY_SUPPLY
Pump-power wash
U 33V
0.47UF
C1RW18/1
PWR
M156
GND
C1RW18/2 BK CFKAB
1508
G1D123/1
Motor-wiper-Windscreen
C1RW01/2
SLOW
C1RW01/1
FAST
M105
PARK_IN
GND
C1RW01/3
C1RW01/4 BK DR_D
1128
BK DR_B
1128
SPL288
G1D120/1
G1D123/1
BK
1500
G1D123/1
Junction box-central
C3BP01J/18
OP
POWERWASH_RLY_CTRL
B+
B+
OP C3BP01J/2 GY-BN
WIPER_ON_OFF_RLY_CTRL 2199
OP C3BP01J/17 BN-WH
WIPER_FAST_SLOW_RLY_CTRL 2199
IP C3BP01M/16 BN-BU C13-D/5 BN-BU
WIPER_PARK_SW 1 1
Pump-washer-Windscreen
OP C3BP01E/7 BU-WH C1RW14/1 C1RW14/2 BK
SCREENWASH_PUMP 1 PWR GND 1512
Sensor-washer Fluid level
IP C3BP01M/12 VT C13-D/12 VT C1MC20/2 C1MC20/1 BK
SCREENWASH_LEVEL_SW 1 1 SIGNAL GND 516
G1D123/1
Sensor-rain-Ambient light
OP C3BP01D/3 BN C49-B/1 BN NO_TSS C9RW06/1
RAIN_SENSOR_PWR 1 2040 SENSOR_PWR
L C3BP01K/20 GN-WH C49-B/19 GN-WH C9RW06/2
RAIN_LIN 2512 2040 SENSOR_SIGNAL
GREF C3BP01K/18 VT C49-B/22 VT NO_TSS C9RW06/3
RAIN_SENSOR_GND 2512 2040 SENSOR_RTN
P C3BP01C/7 BK
SYSTEM_GND 1
G3D138/1
C+
MS_CAN_IN_POS
C-
MS_CAN_IN_NEG
MS CAN BUS
C+
MS_CAN_OUT_POS
C-
MS_CAN_OUT_NEG
MS CAN BUS
C49-B/1 BN TSS SPL660 BN TSS C9RW06/1
1 1
C49-B/22 VT TSS SPL661 VT TSS C9RW06/3
1 1
F31
5A MINI
B+
CLUSTER_LOGIC_PWR
C3BP01D/9 WH-RD
144
C23-D/3 WH-RD
1355
C2MC01B/16
B
LOGIC_PWR
Instrument cluster
Switch-steering column-Wiper
IP C2MC01A/8 GY-BN C2RW08/2
WASH_WIPE_SW 774 WASH_WIPE_SW
IP C2MC01A/29 GN-VT C2RW08/5
INT_WIPE_SW 774 INT_WIPE_SW
INT 6
INT 5
INT 4
INT 3
INT 2
INT 1
AUTOWIPE
IP C2MC01A/26 BU-GN C2RW08/4
MASTER_WIPE_SW 774 MASTER_WIPE_SW
OFF
INT
SLOW
FAST
IP C2MC01A/25 WH-GN C2RW08/3
FLICK_WIPE_SW 774 FLICK_WIPE_SW
GREF C2MC01B/27 BN-VT C2RW08/6
WIPER_SW_RTN 782 WIPER_SW_RTN
S174
C+
MS_CAN_IN_POS
C-
MS_CAN_IN_NEG
MS CAN BUS
P C2MC01B/32 BK
LOGIC_GND 676
P C2MC01B/22 BK SPL187 BK
GND 535 585
G2D115/1

phcr83-70317-a-a4



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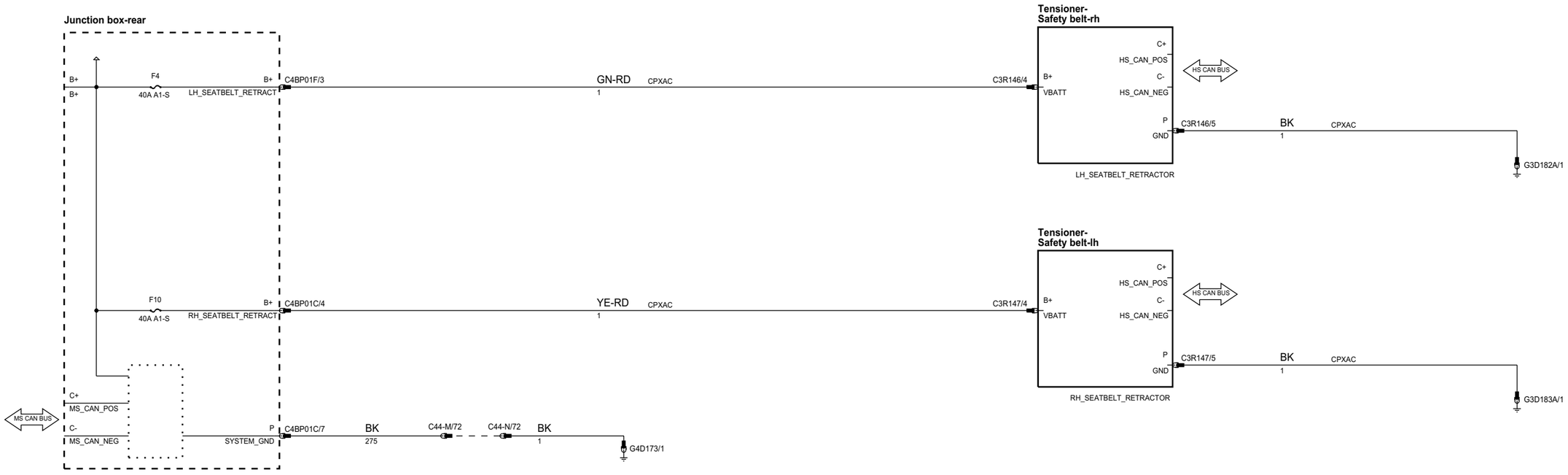

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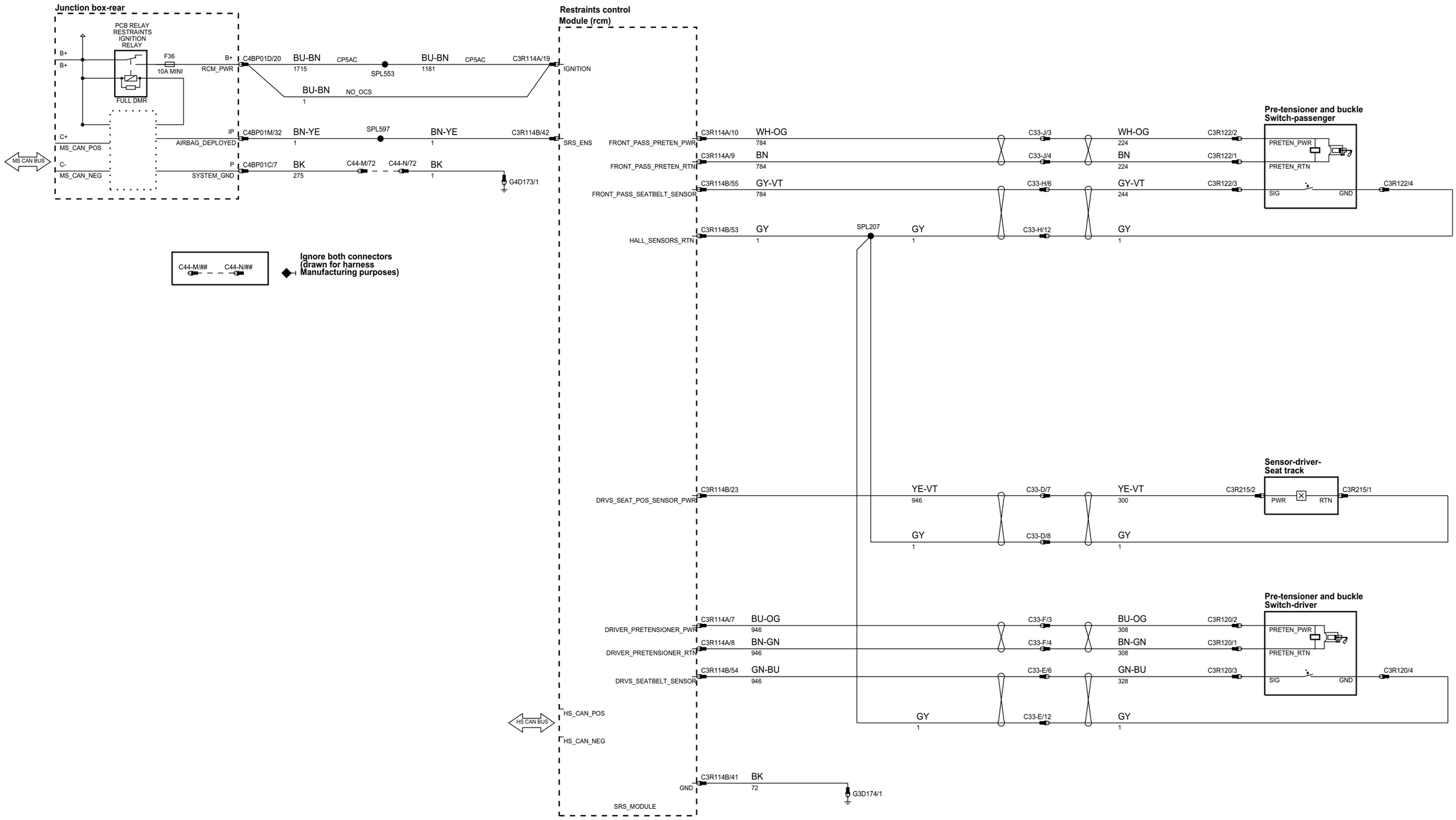

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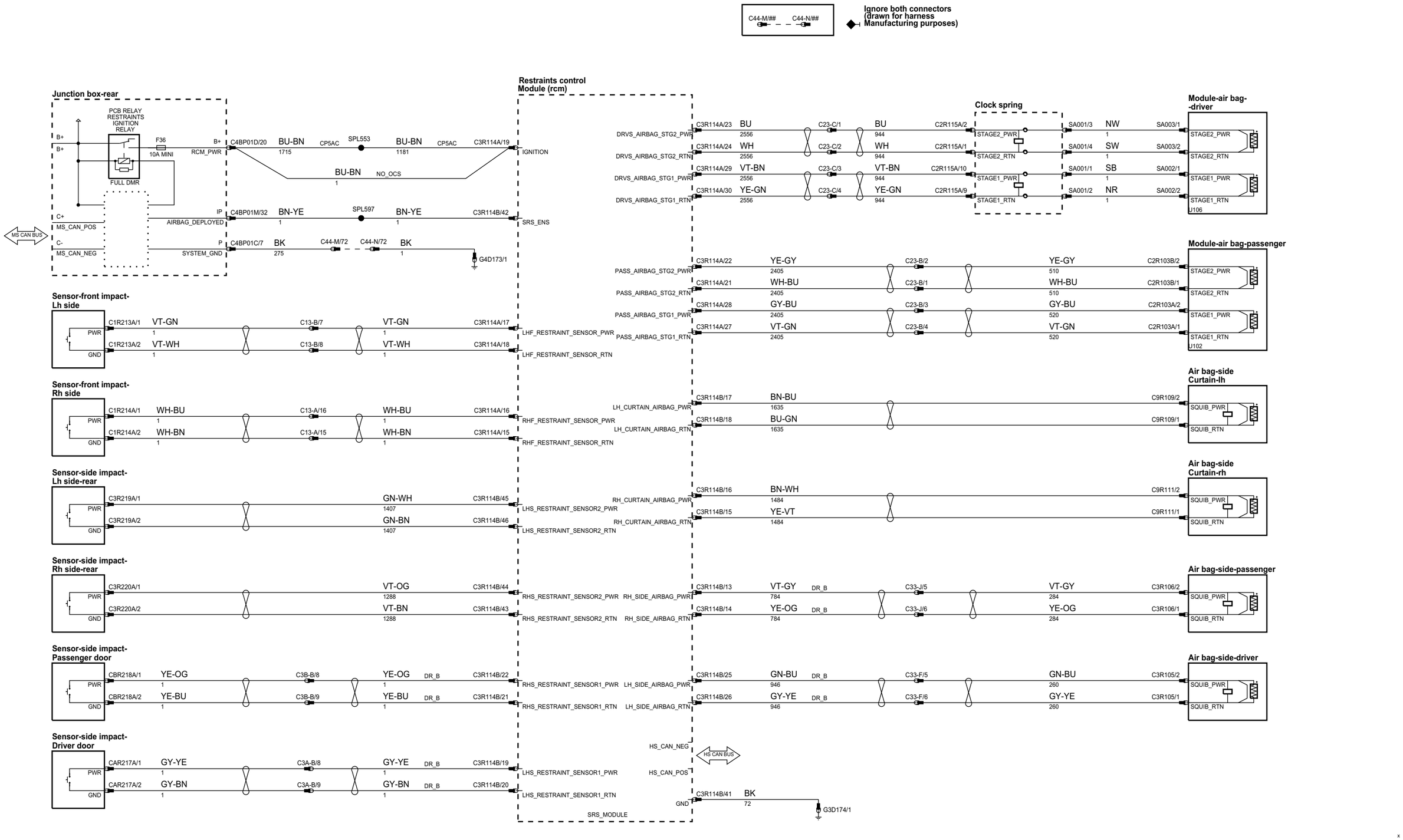

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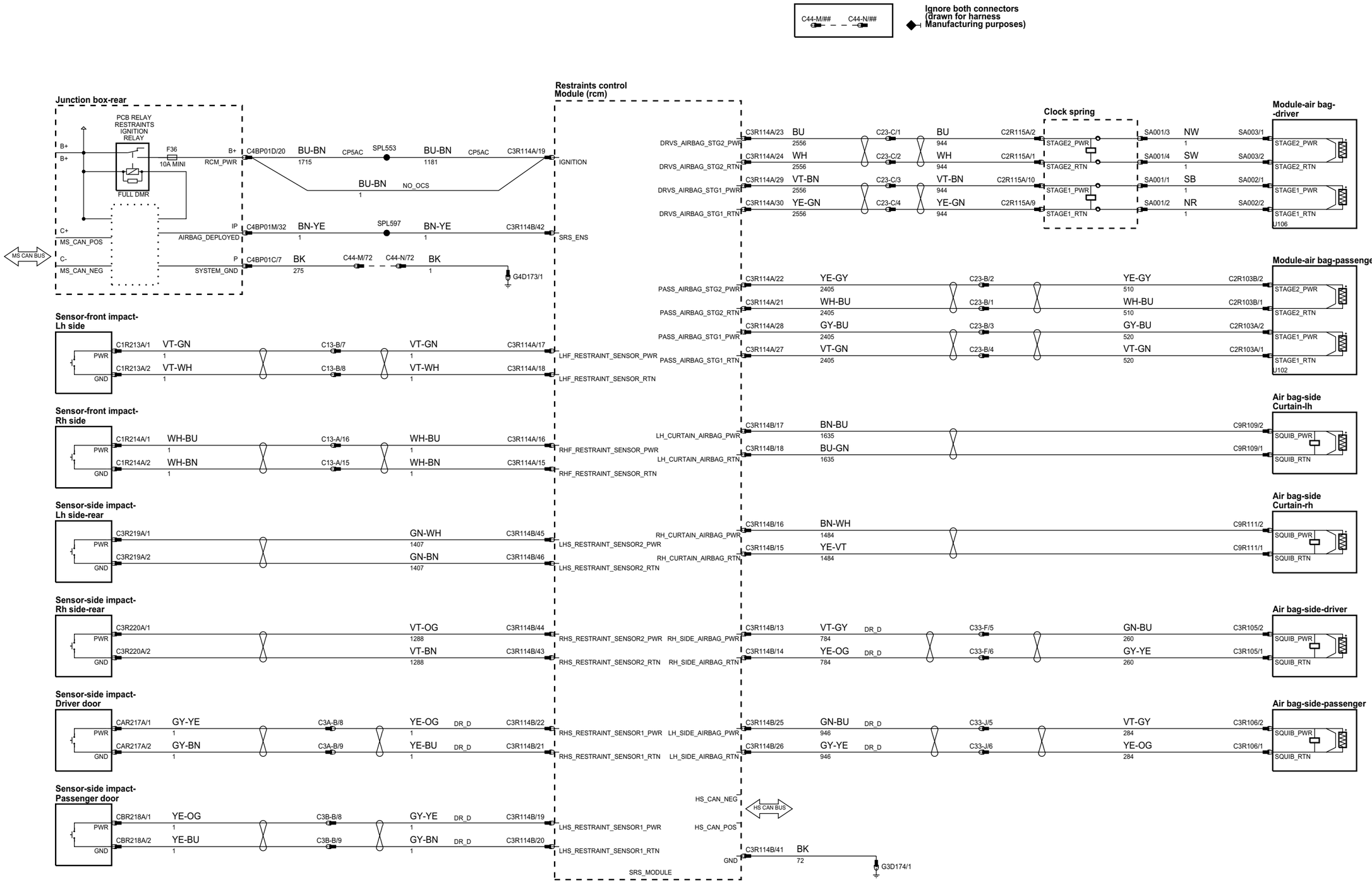

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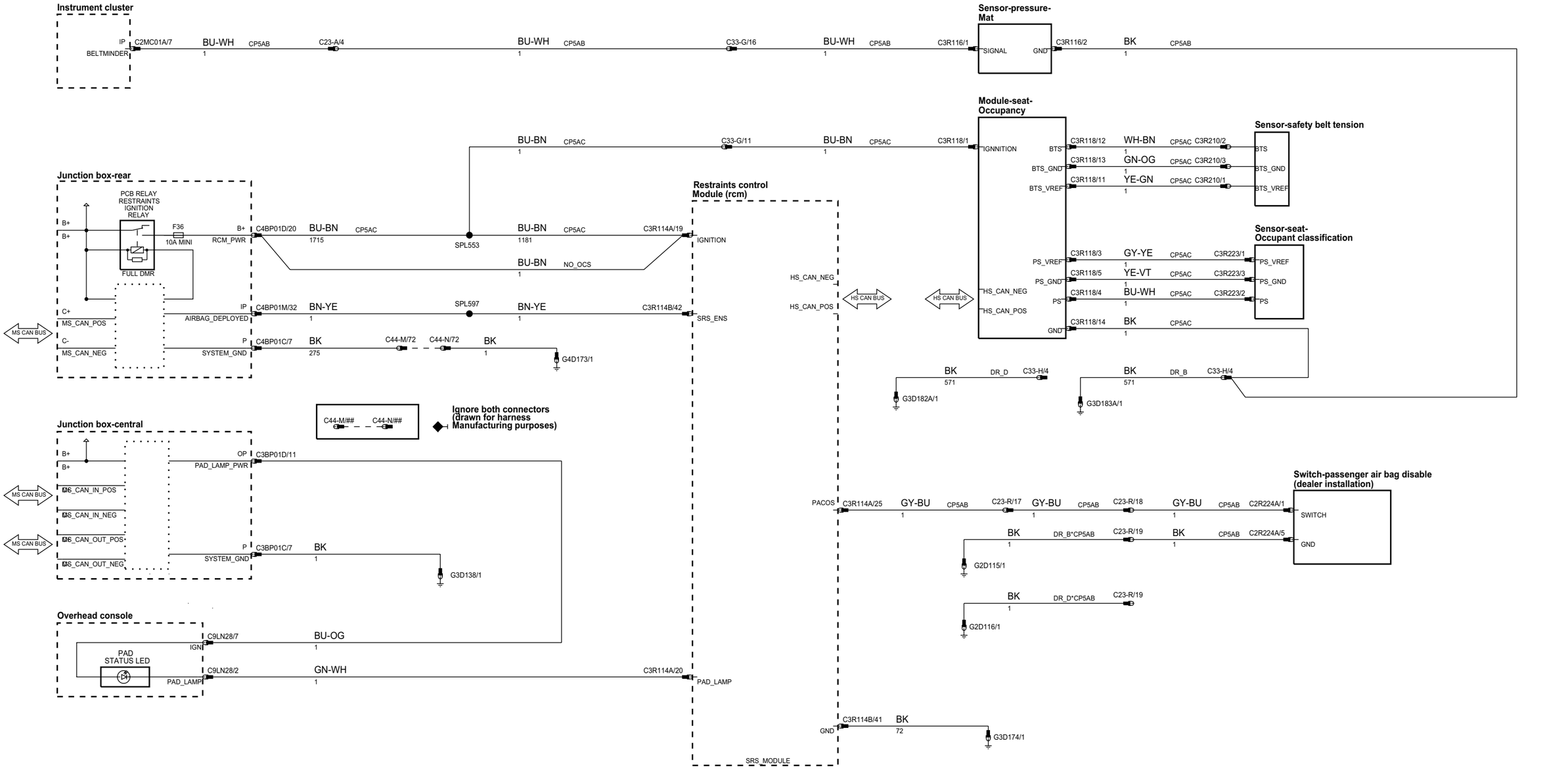

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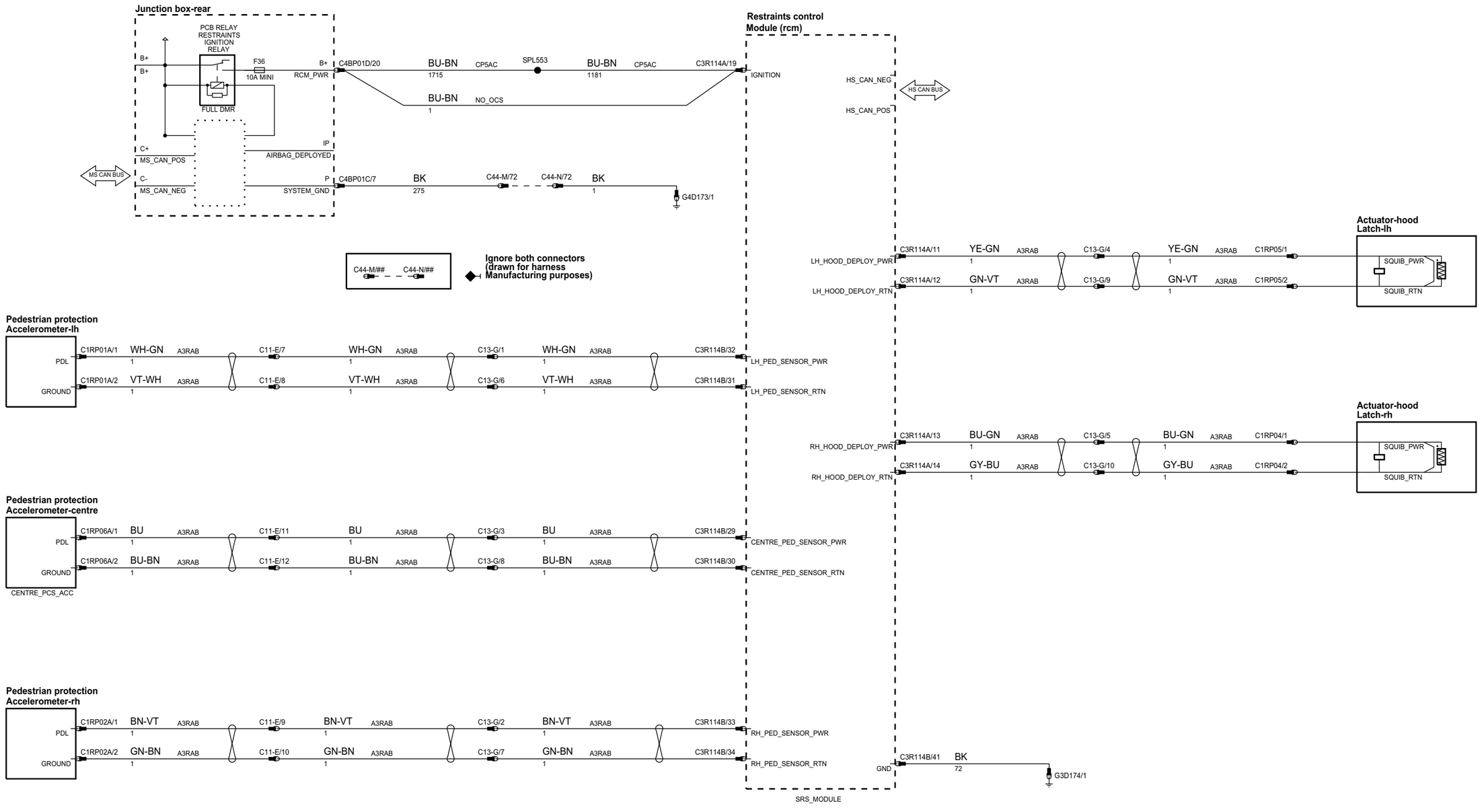

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