



Electrical Circuit Diagrams

Elektrische Circuitdiagrammen

Schémas électriques

Elektrische Schaltpläne

Schemi elettrici

Esquemas de Circuitos Eléctricos

Diagramas dos Circuitos Eléctricos



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ELECTRICAL CIRCUIT DIAGRAMS - LHD

YVB101600 - 2nd Edition

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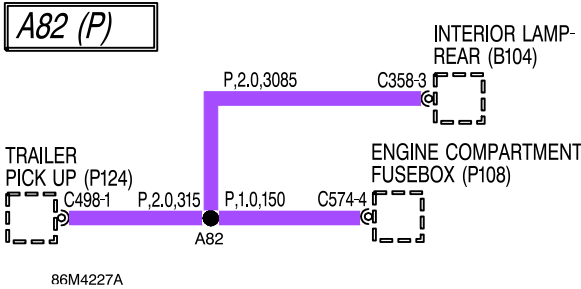
HOW TO USE THE CIRCUIT DIAGRAMS - LHD

All of the information in this folder is intended for use with the Electrical Reference Library booklet.

The circuit diagrams are presented with Power and Earth distribution first, followed by individual circuits for each electrical system on the car.

Power Distribution

The Power Distribution diagram shows the connections from the battery to the engine and passenger compartment fuseboxes. It also shows the internal circuitry of the fuseboxes.



These fuse box details are followed by a Headers and Splices section outlining the way in which internal harness splices and header joints distribute power in the harnesses. This information should be used during diagnosis of electrical faults to check for symptoms in associated circuits and narrow down the search area.

Headers and splices

Header and splice tables present the joint(s) and wiring up to the first component. Splices are identified by a number with an alphabetical prefix and the wire colour.

The splice information shown on individual system circuits is not complete. Always refer to the splices circuit for complete information on each splice.

Wire attributes

Additional information (separated by a ',') is shown alongside the wire colour: Wire gauge - the cross-sectional area of the wire in square millimetres. This is included to help you select the correct wire during harness repair.

Some wires do not have a gauge shown, these wires are of unique construction and will have a three or four letter code printed after the colour code, eg MAB. The code identifies the type of wire for manufacturing purposes. Usually, only the first two characters have significance in service, but in some instances the third character also becomes significant, see Wire Type information given below.

Wire type

The following table list the wire type codes together with an explanation of their meaning.

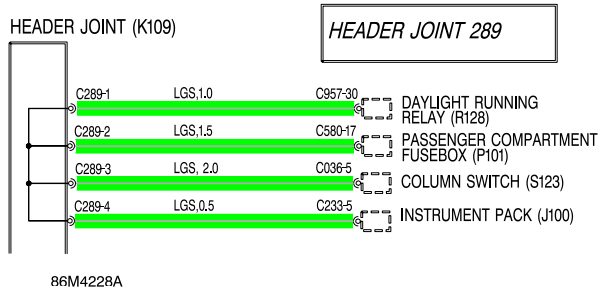
Code	Description
MAB	Twin core screened wire
MAH	Coaxial screened wire
MAT	Twin core double sheath
MCA	Twisted core screened wire
MD*	Twisted core ABS sensor wire
ME*	Twisted pair of wires min. 33 twists per metre
MM*	Twisted pair of wires
MQ*	Twin core foil screened cable
MZ*	Three core screened flexible cable

Wire length (Power & Earth Distribution only) - the length of the wire in millimetres. This can be used to locate internal harness splices; look for the shortest wire between the joint and connector. For example, it can be seen that C574-4 is 150mm from joint A82.

Earth Distribution

The ground distribution section comprises a number of Headers and Splices tables. These are used in a similar manner to those in Power Distribution; to narrow the search area by checking for fault symptoms in associated circuits.

Connectors



Header joints are identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C289-1 identifies connector 289, pin number 1. Wire insulation colour is identified in the normal way. Where wires have a predominant colour with a secondary colour stripe, the main colour is identified first, i.e. LGS - Light Green with a Slate stripe.

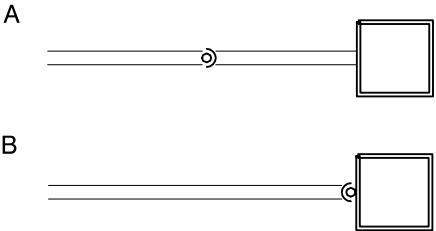
HOW TO USE THE CIRCUIT DIAGRAMS - LHD

Line Types



86M4229A

This means the wire connects to another circuit.



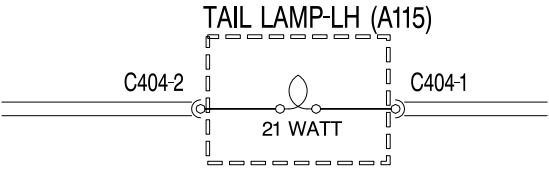
86M4230A

The cup and ball symbol indicates the male and female halves of connector.

A. Plug on lead (Flylead) wired directly to the component.

B. Connector plugs directly into component.

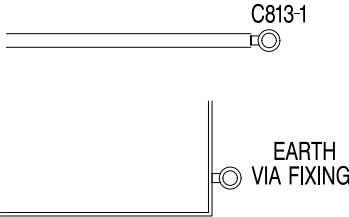
Components



86M4231A

The name or description of the component is shown. A dotted outline indicates that the component is not shown in its entirety.

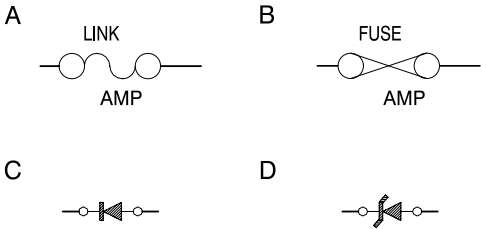
Earth points



86M4232A

Earth points are identified with an eyelet symbol and a connector number, except where components are grounded through their fixings, when only the eyelet is shown.

Fuses and Diodes

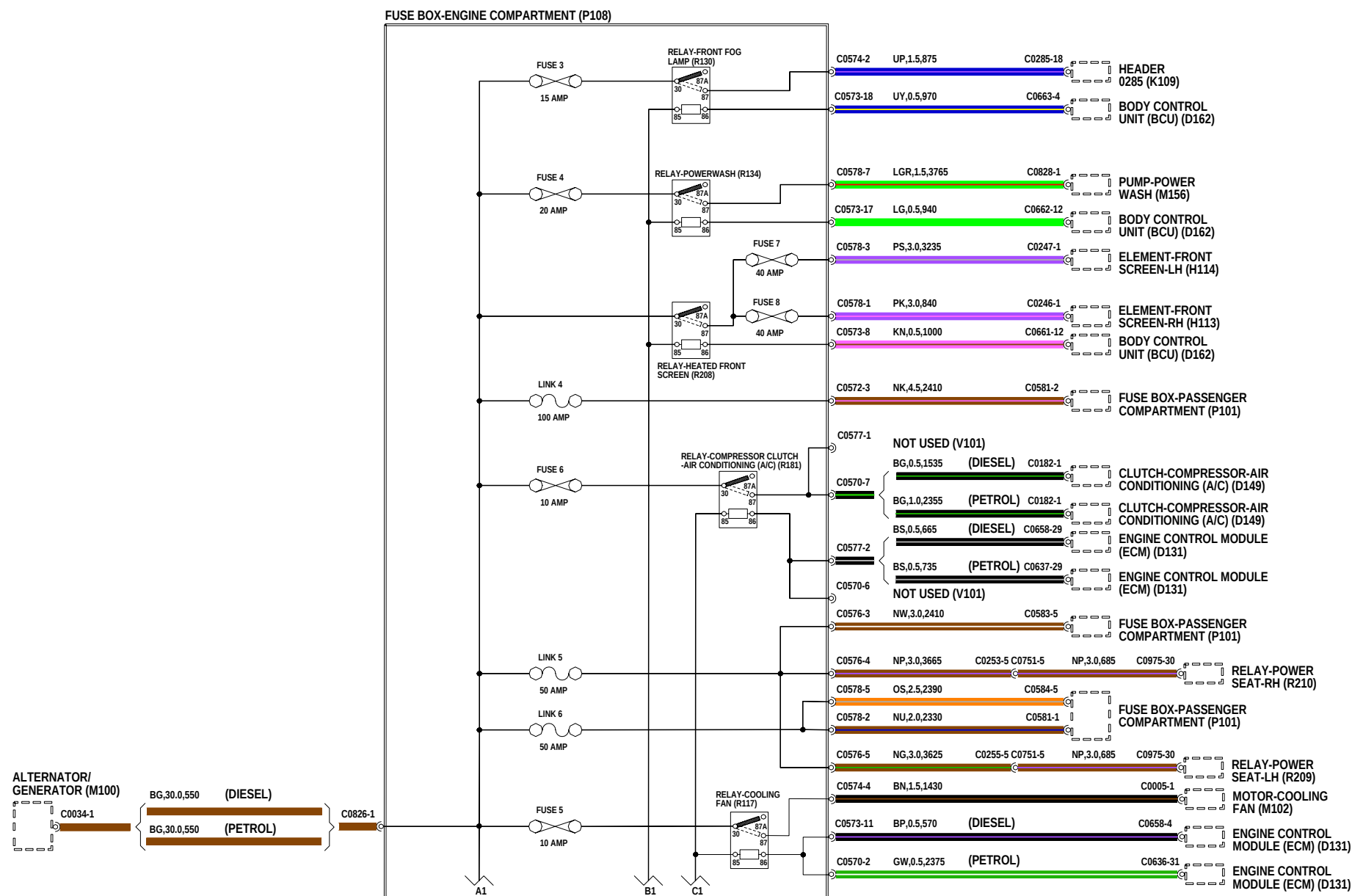


86M4234A

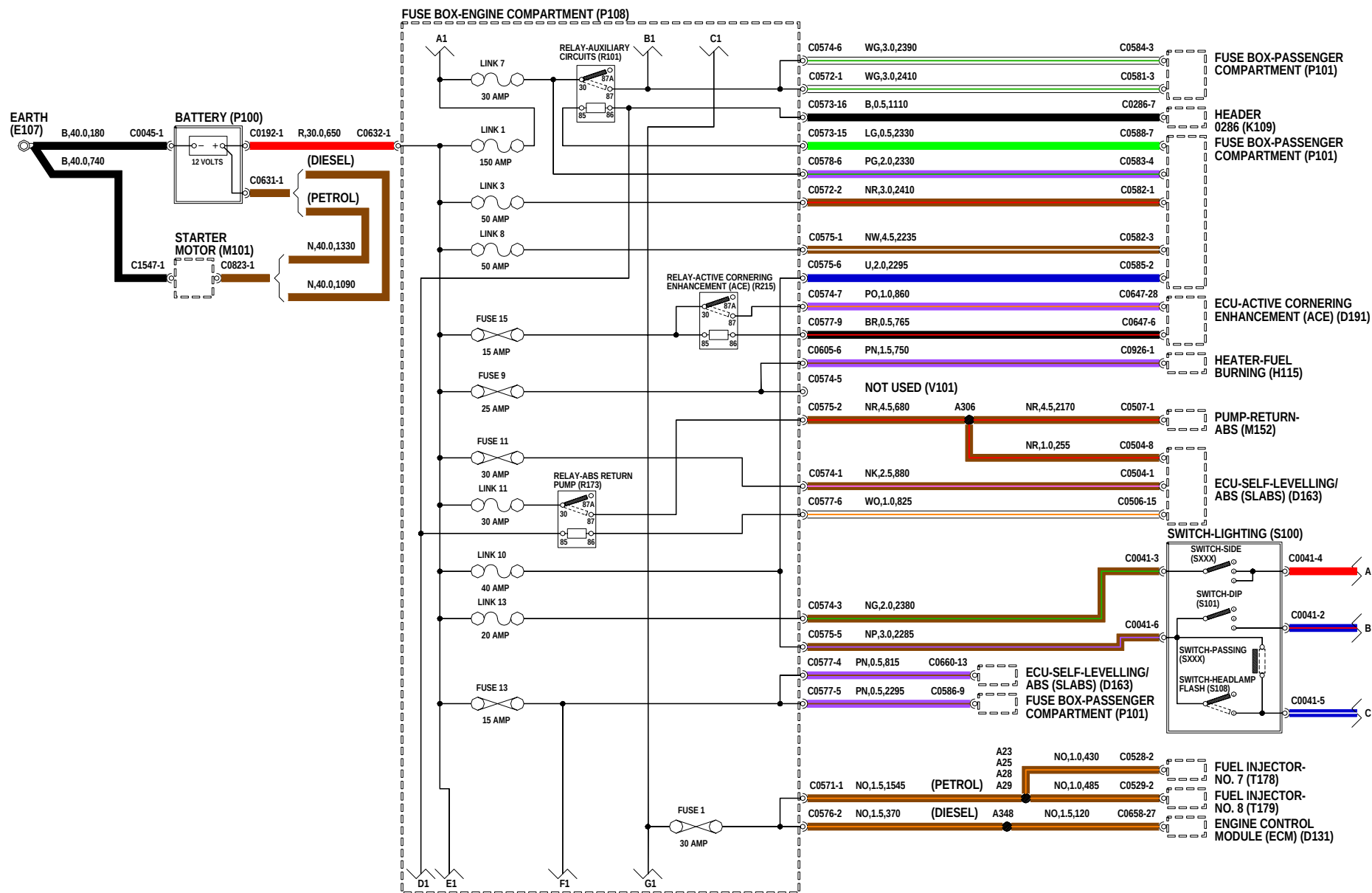
Fusible links (A) and current rated fuses (B) are identified as shown.

The direction of the arrow in a Diode symbol (C) indicates the direction of current flow. The Zener diode (D) - prevents current flow until a precise voltage is reached.

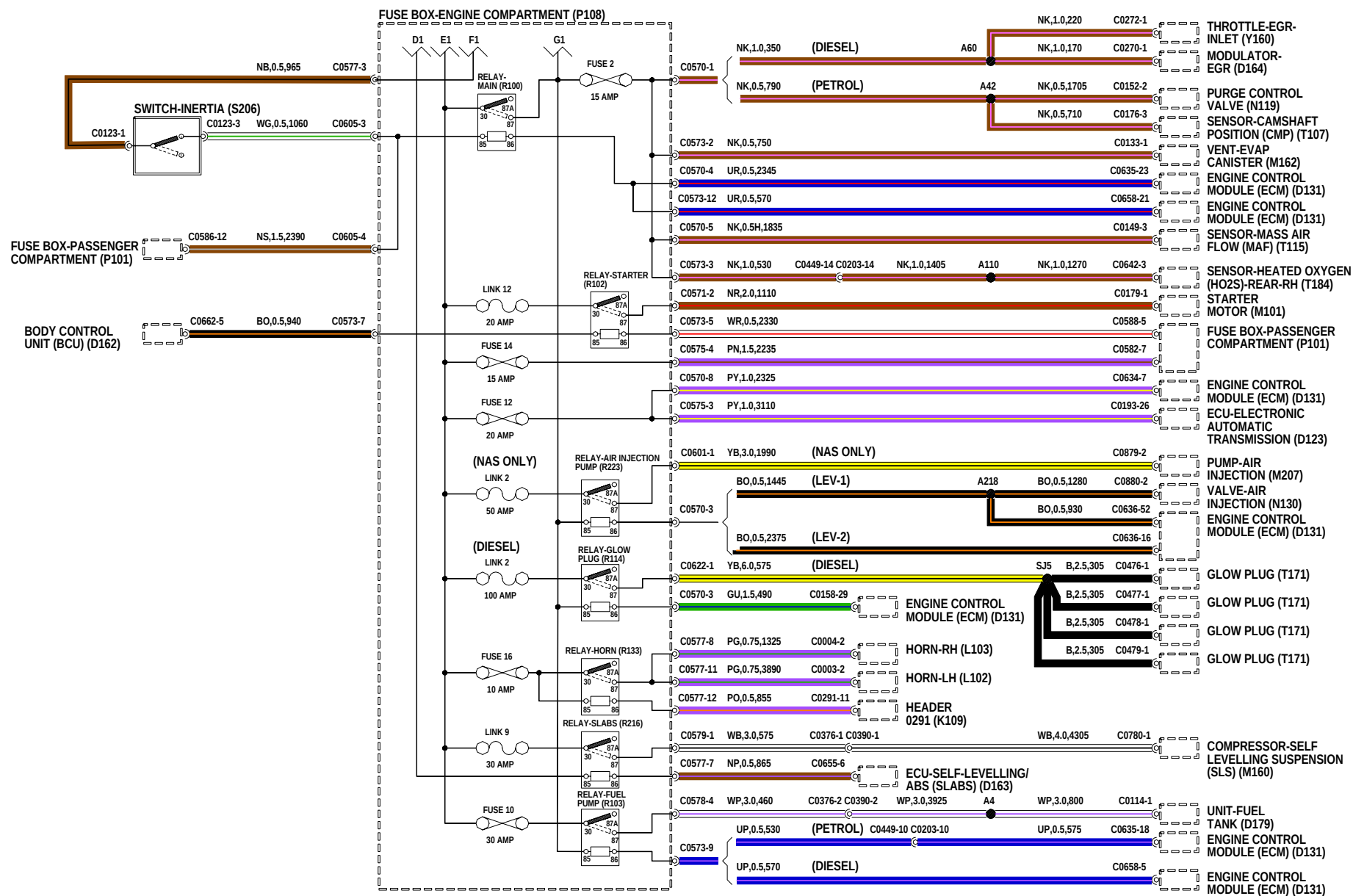
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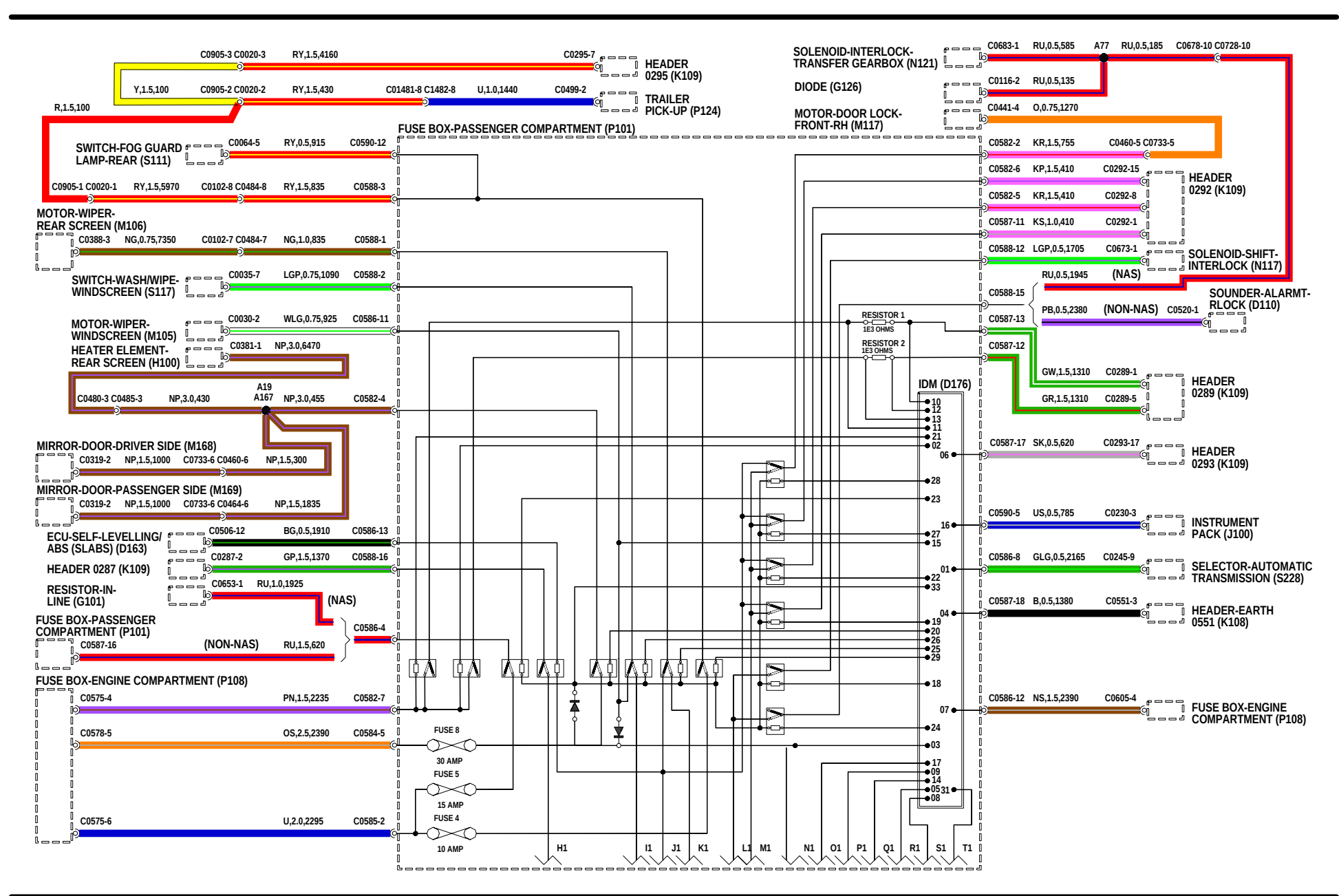


POWER DISTRIBUTION

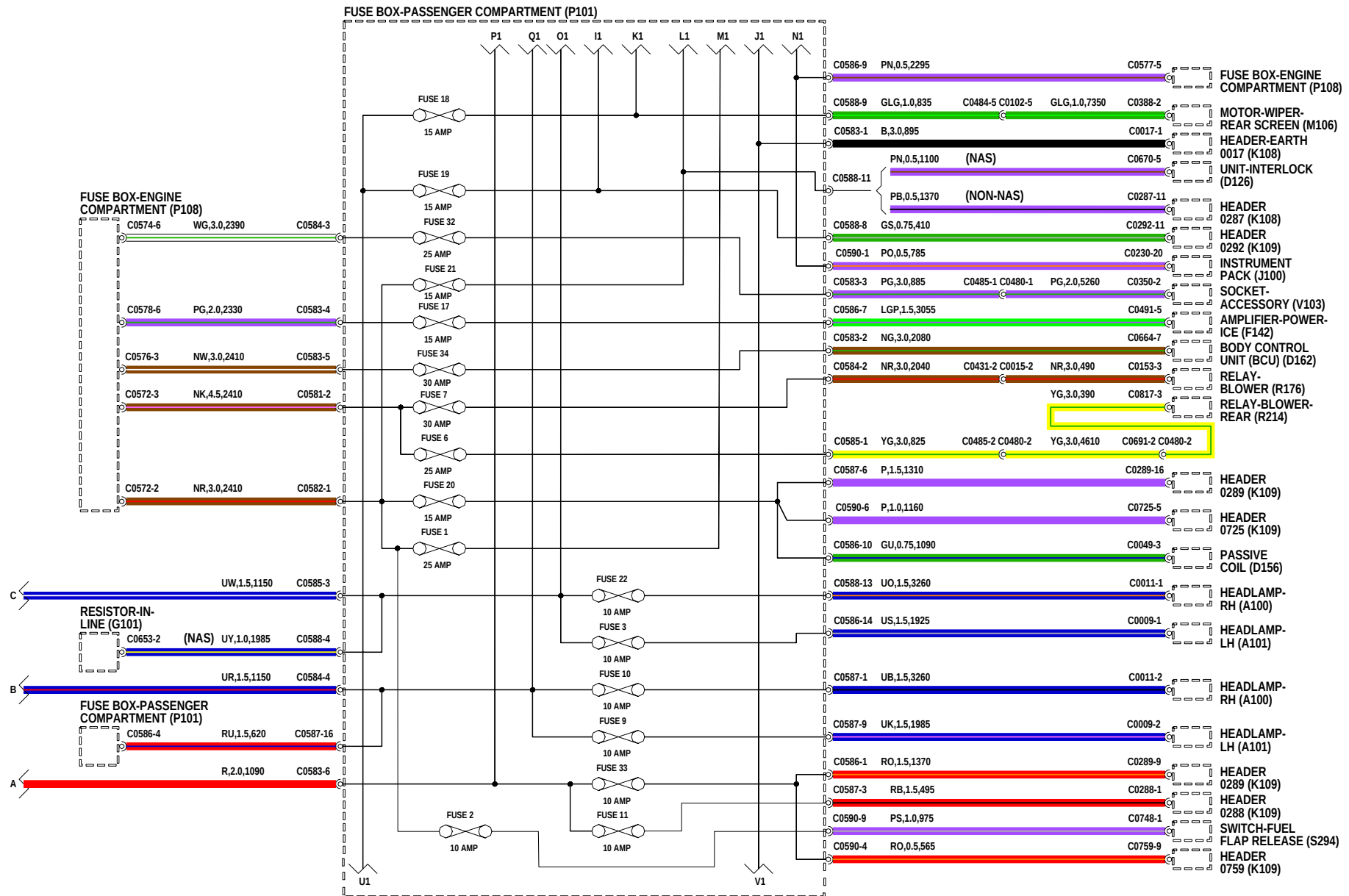


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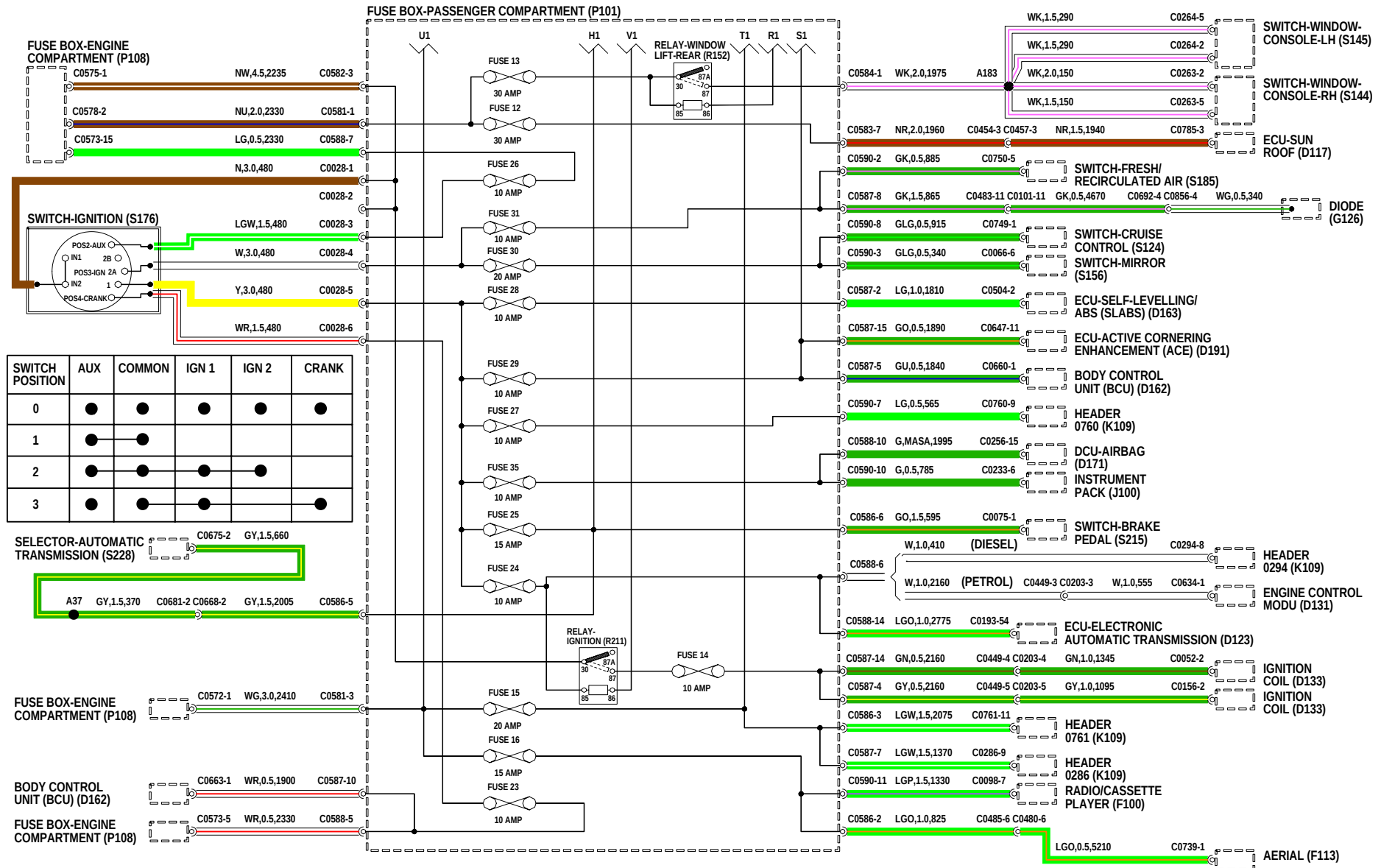




POWER DISTRIBUTION



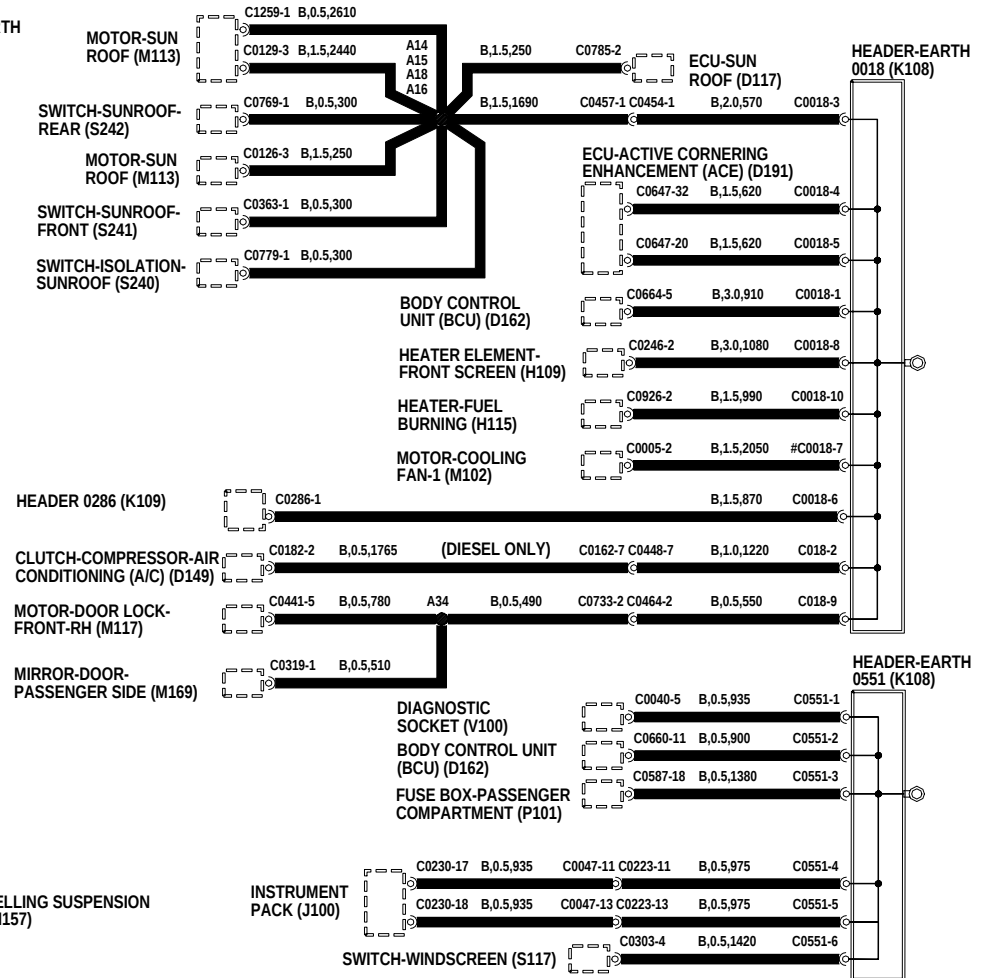
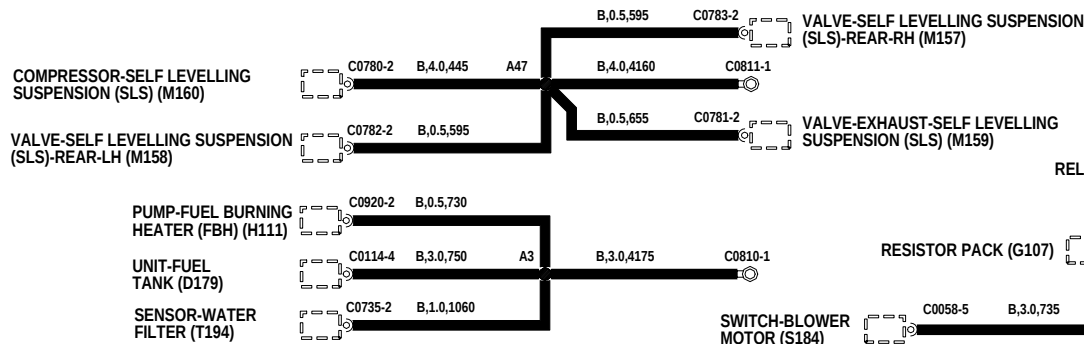
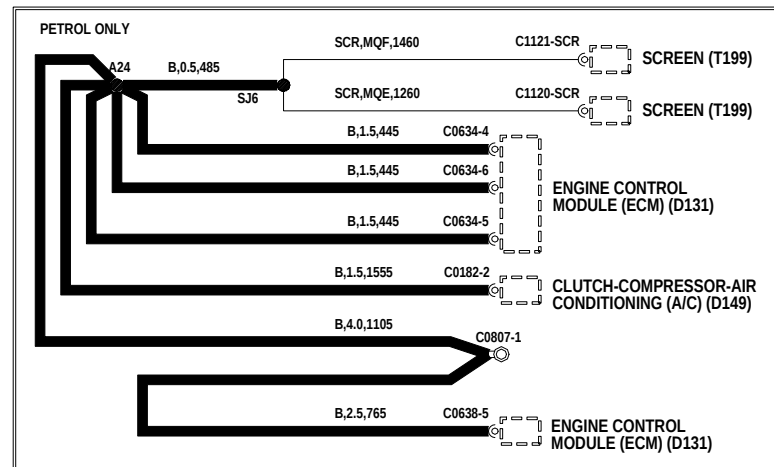
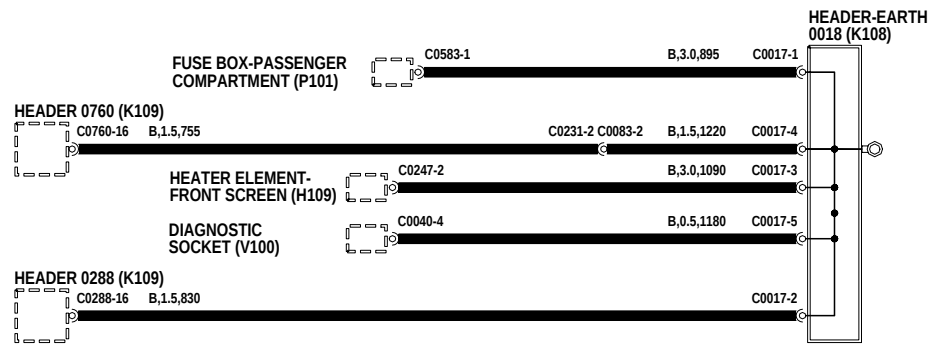
POWER DISTRIBUTION



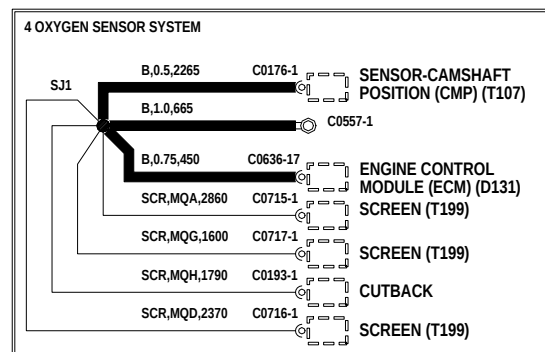
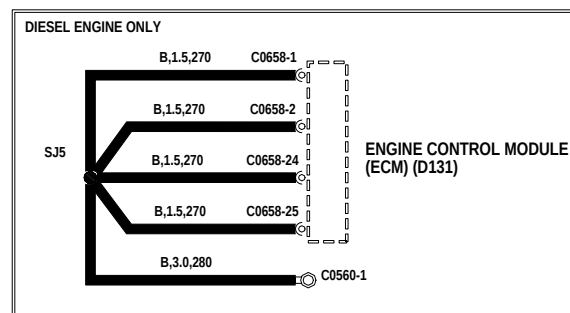
DISCOVERY SERIES II



EARTH DISTRIBUTION



EARTH DISTRIBUTION



MOTOR-LOCK-TAILDOOR (M114)

MOTOR-WIPER-REAR SCREEN (M106)

LAMP-REAR NUMBER PLATE-RH (A127)

HEATER ELEMENT-REAR SCREEN (H100)

LAMP-INTERIOR-REAR (B104)

LAMP-INTERIOR-FRONT/SENSOR-INFRA RED (B157)

2 OXYGEN SENSOR SYSTEM

SENSOR-CAMSHAFT POSITION (CMP) (T107)

ENGINE CONTROL MODULE (ECM) (D131)

SCREEN (T199)

CUTBACK

CUTBACK

SWITCH-BLOWER-REAR (S295)

SWITCH-AIR CONDITIONING (A/C)-REAR (S243)

HEATER SWITCH ILLUMINATION (B123)

SUPPRESSOR-IDLE SOLENOID (G157)

SUPPRESSOR-IGNITION COIL (G156)

SUPPRESSOR-IGNITION COIL (G156)

TRAILER-PICK UP (P124)

AMPLIFIER-RADIO HEADPHONE-LH (D159)

AMPLIFIER-RADIO HEADPHONE-RH (D158)

HOME LINK (GARAGE DOOR OPENER) (Y168)

MIRROR-INTERIOR (B146)

LAMP-TAIL-RH (A114)

MODULE-ULTRASONIC-REAR (D196)

LAMP-INTERIOR-REAR (B104)

LAMP-TAIL-RH (A114)

SOUNDER-ALARM-BATTERY BACKED UP (D154)

LAMP-BRAKE-HIGH MOUNTED (A126)

MIRROR-VANITY-LH (B152)

LAMP-INTERIOR-FRONT (B100)

MOTOR-BLOWER-REAR (M133)

LAMP-TAIL-LH (A115)

LAMP-TAIL-LH (A115)

RECEIVER-RADIO FREQUENCY (RF) (T203)

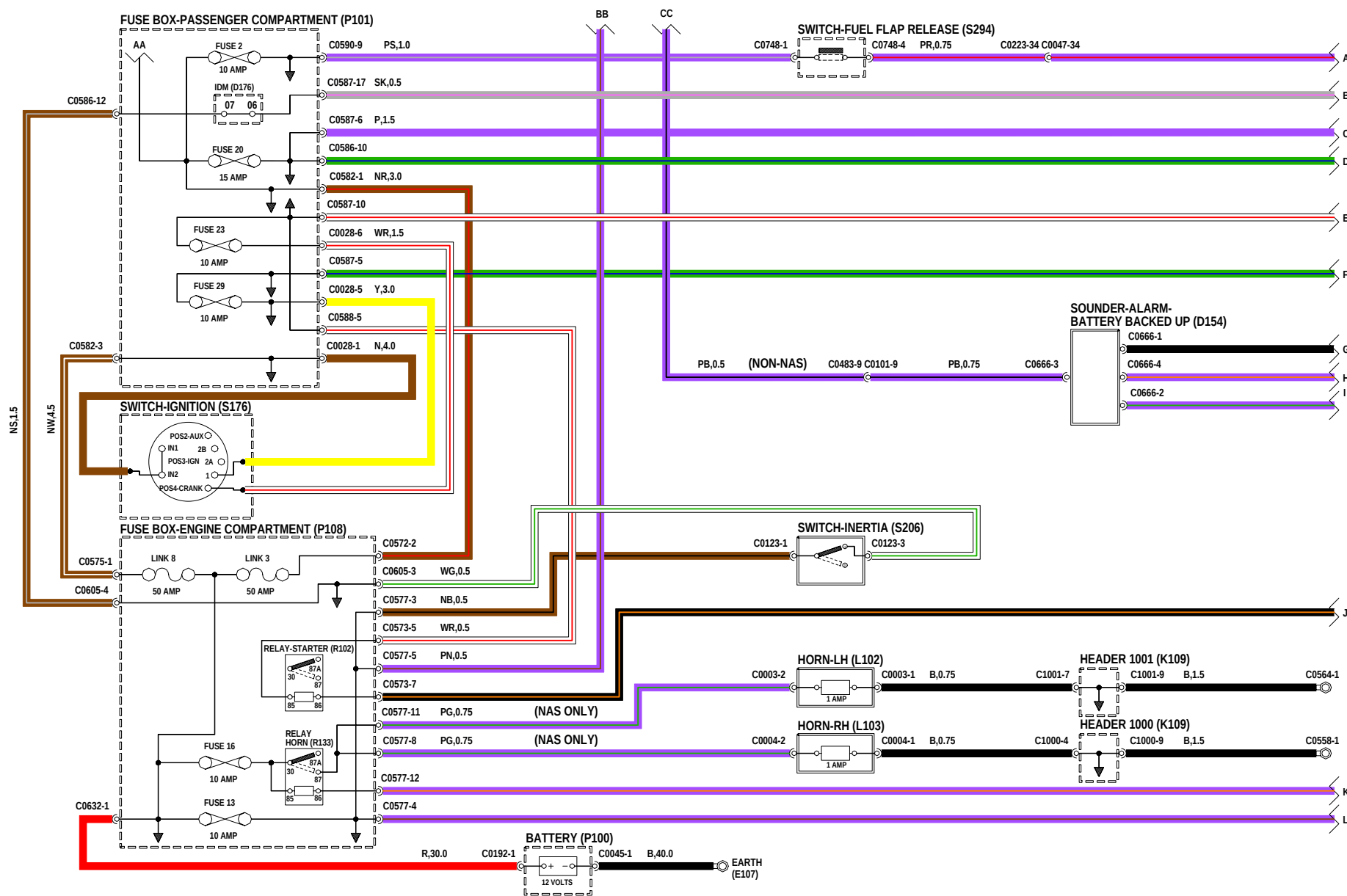
MIRROR-VANITY-RH (B153)

MODULE-ULTRASONIC-FRONT (D195)

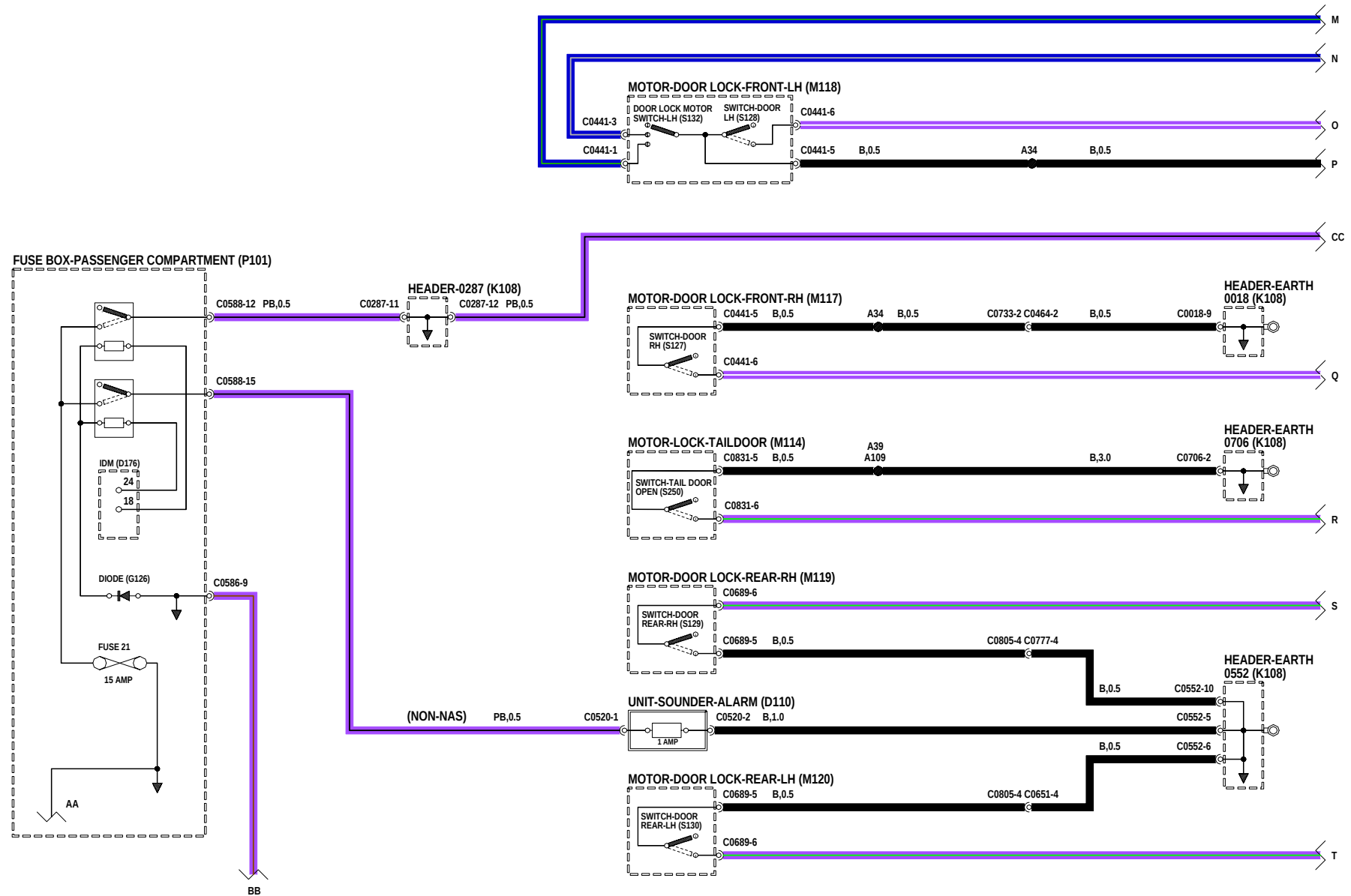
HEADER-EARTH 0706 (K108)

HEADER-EARTH 0707 (K108)

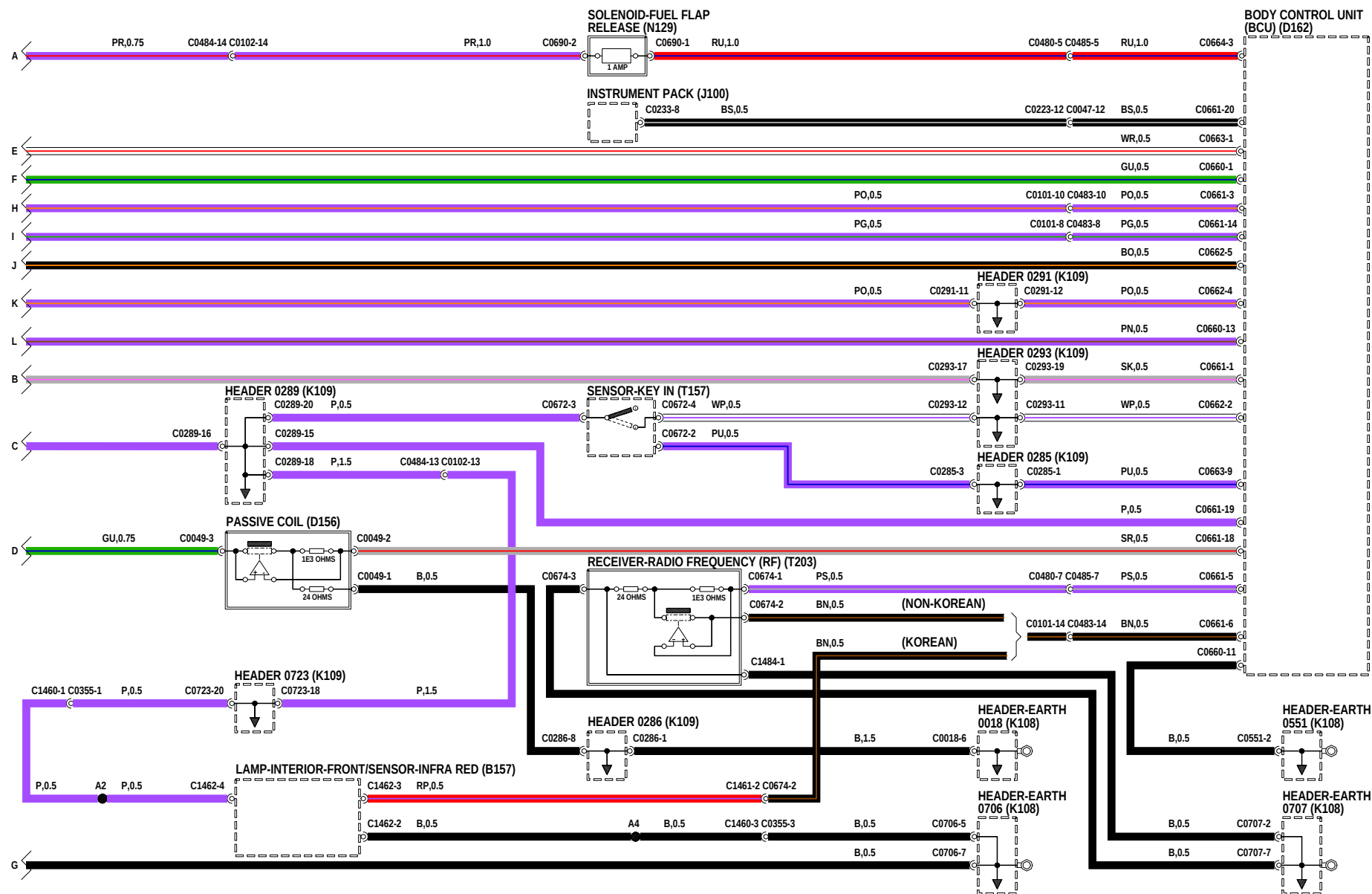
ANTI-THEFT ALARM



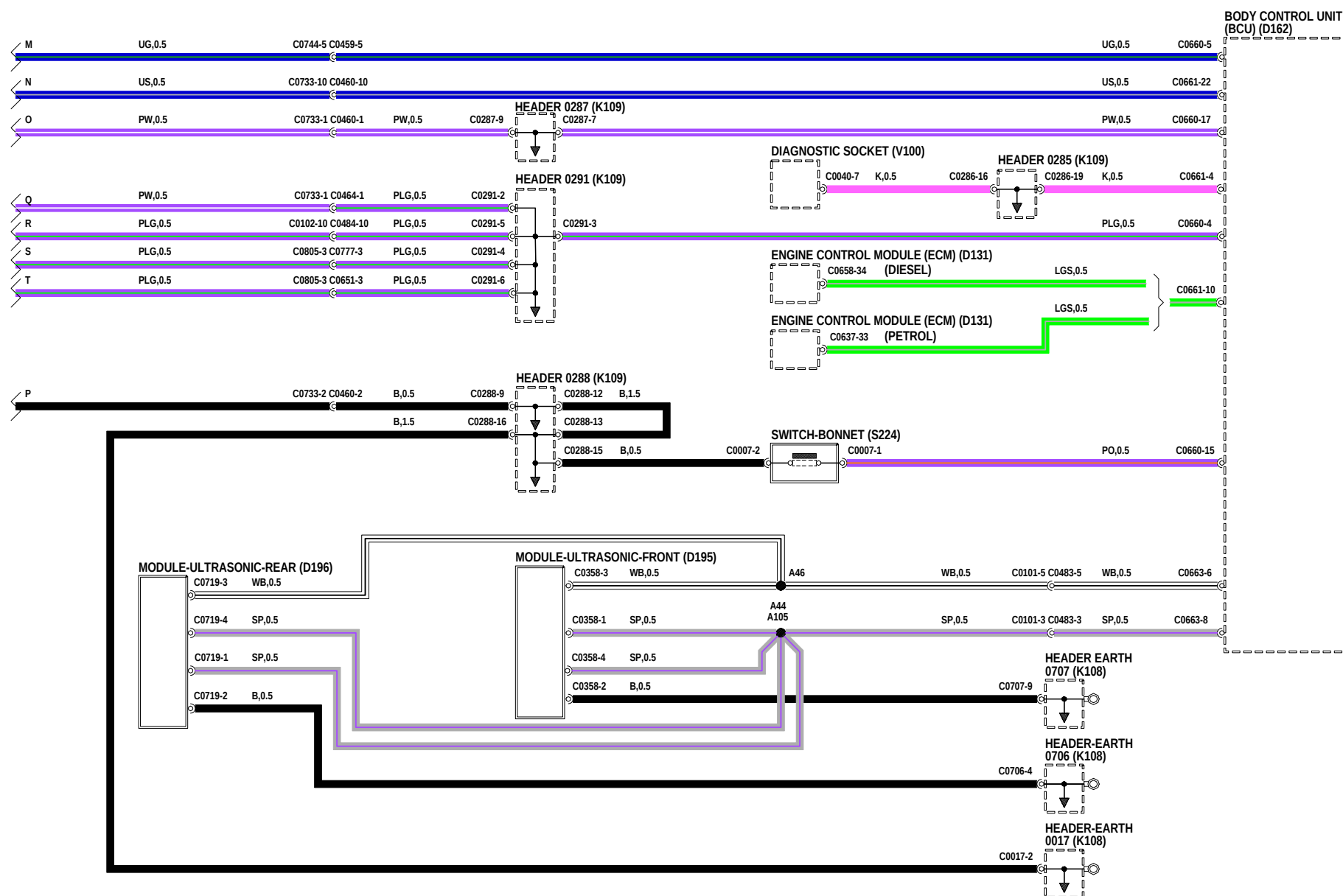
ANTI-THEFT ALARM



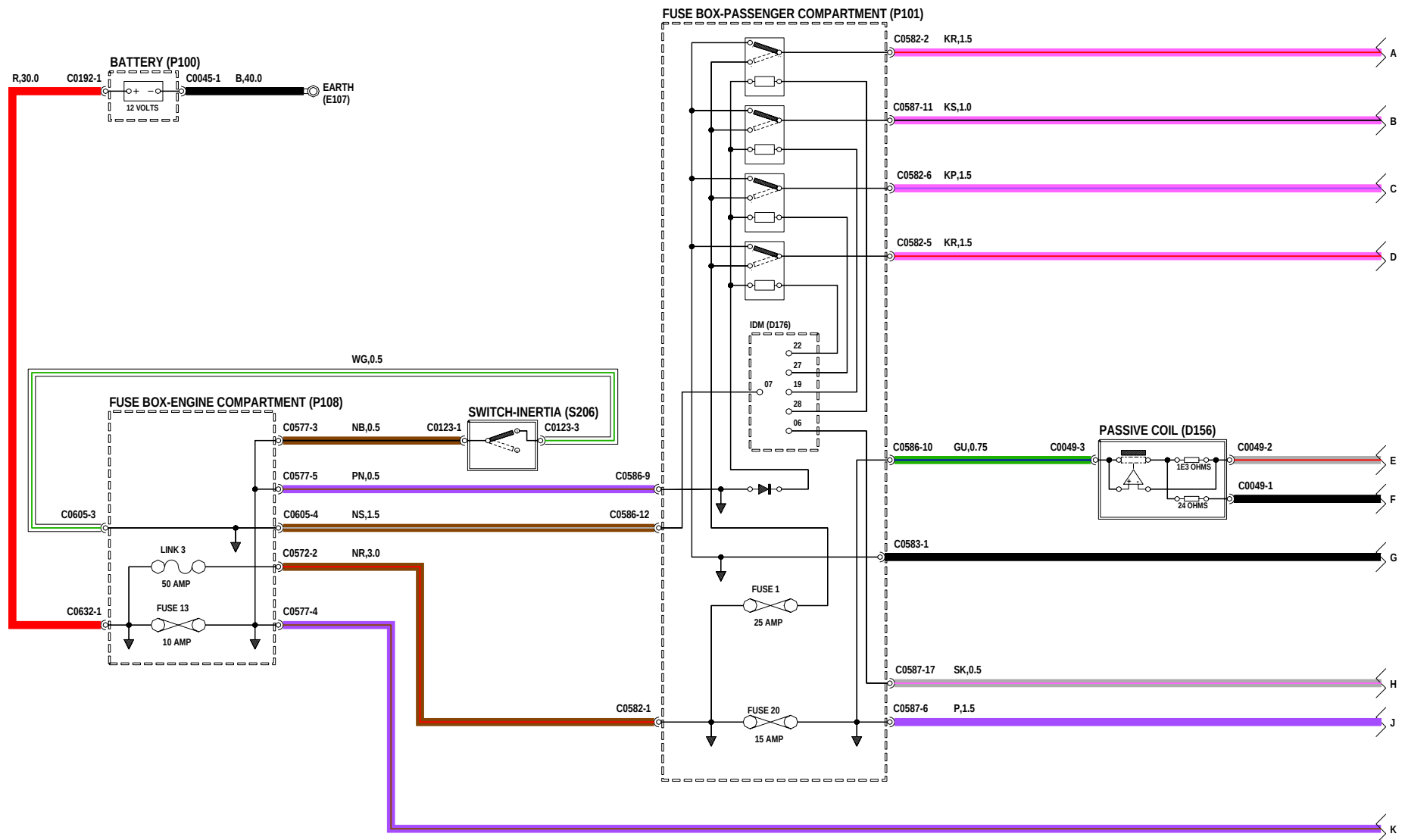
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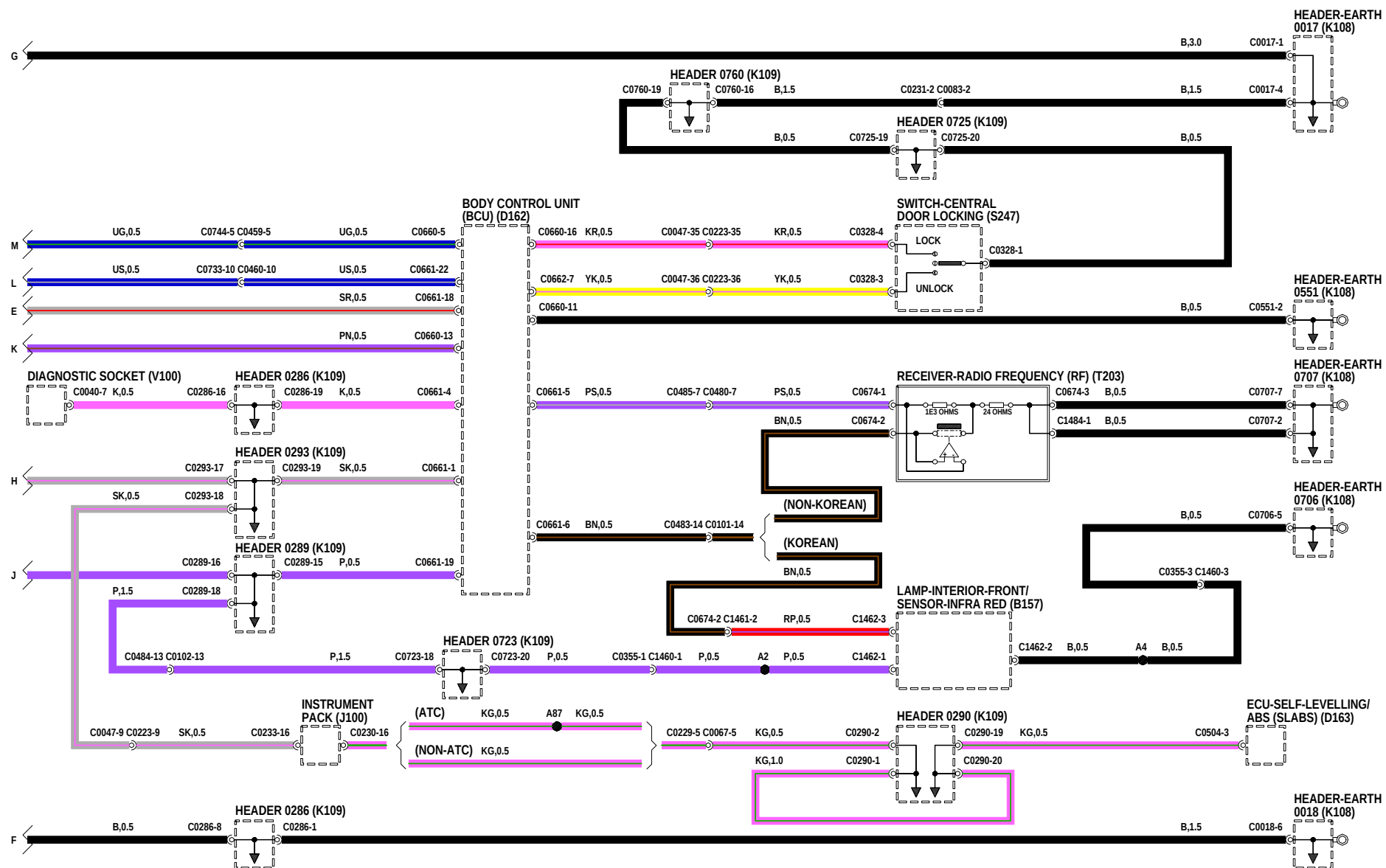
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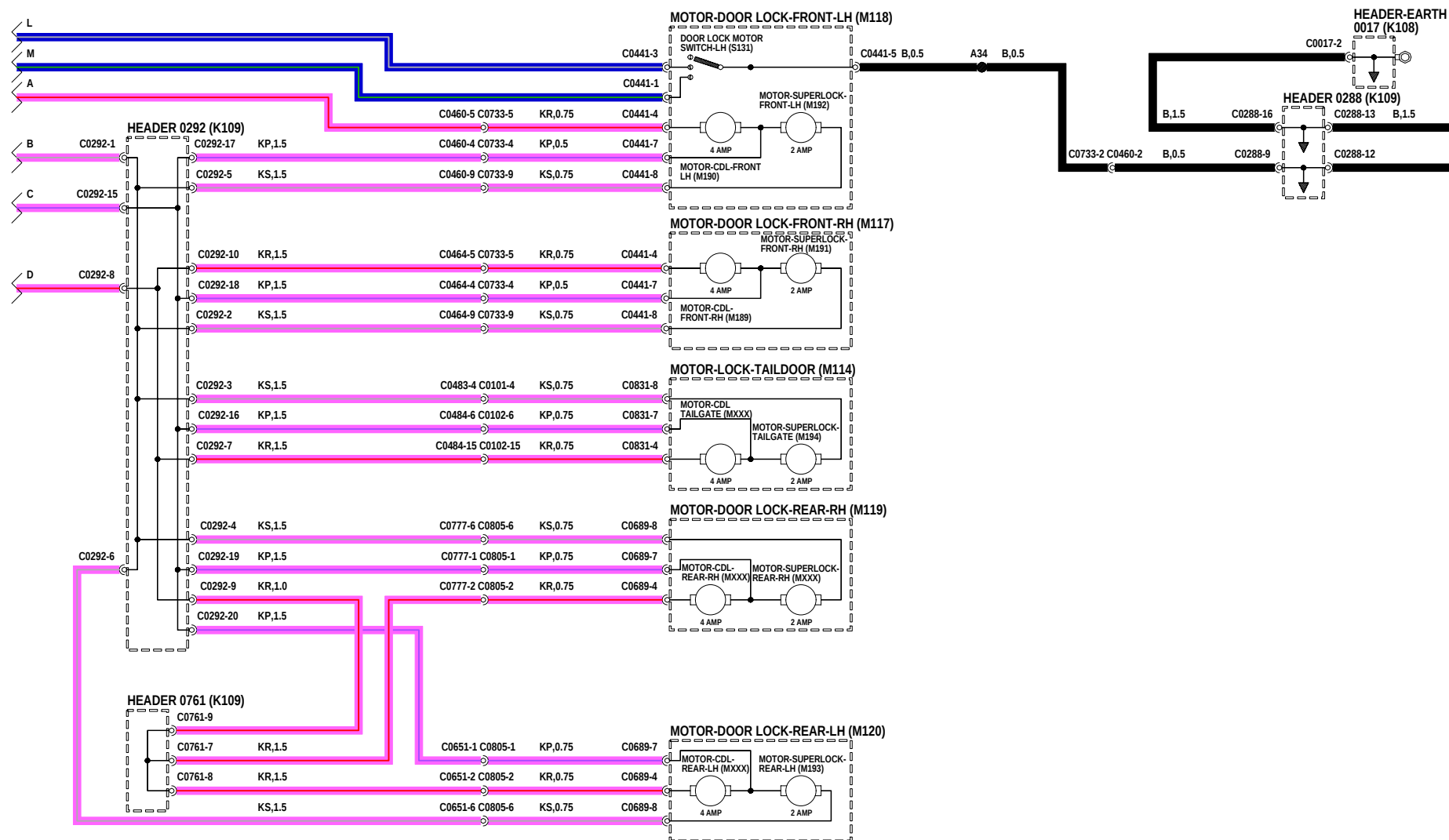
CENTRAL DOOR LOCKING



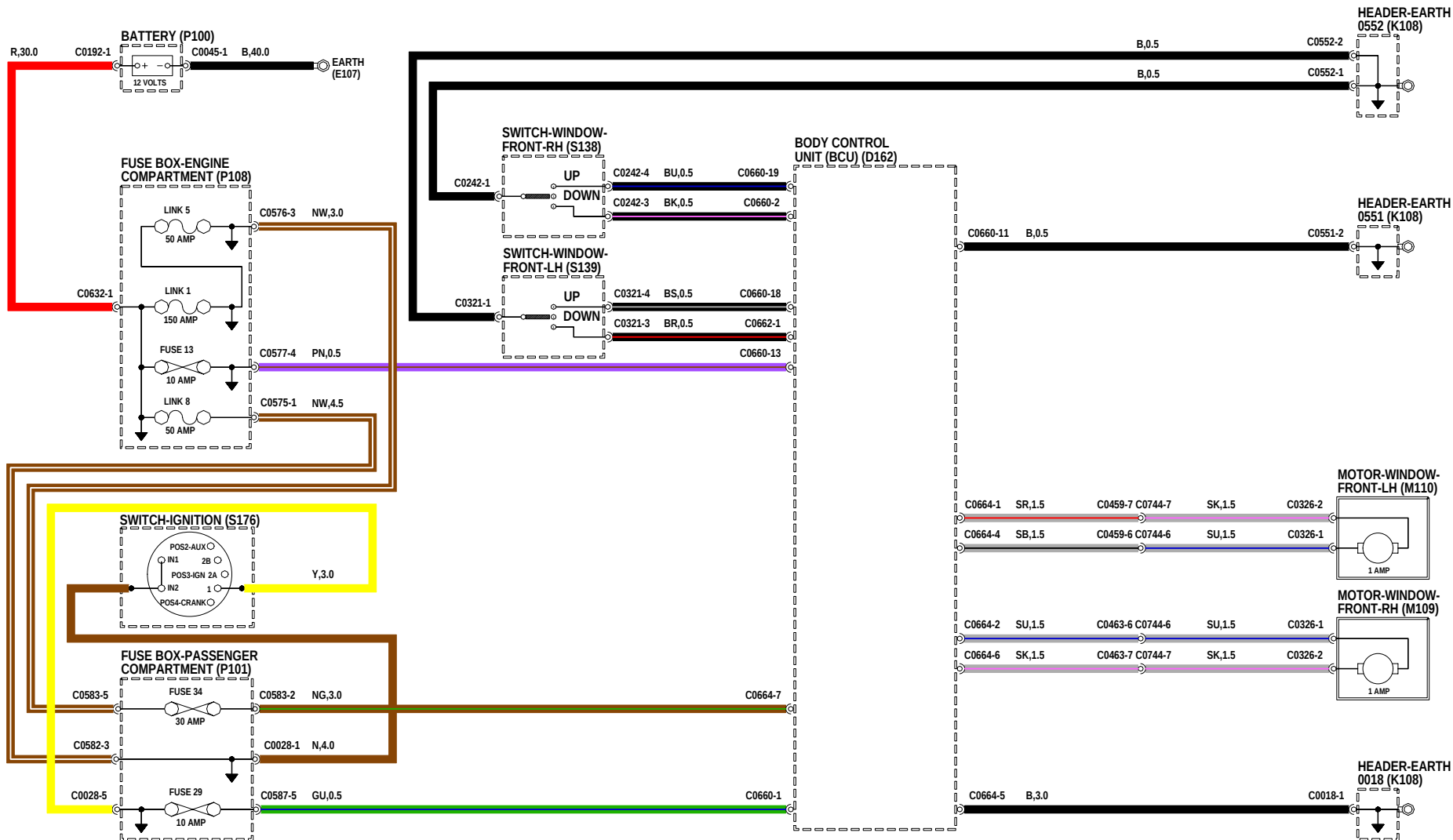
CENTRAL DOOR LOCKING

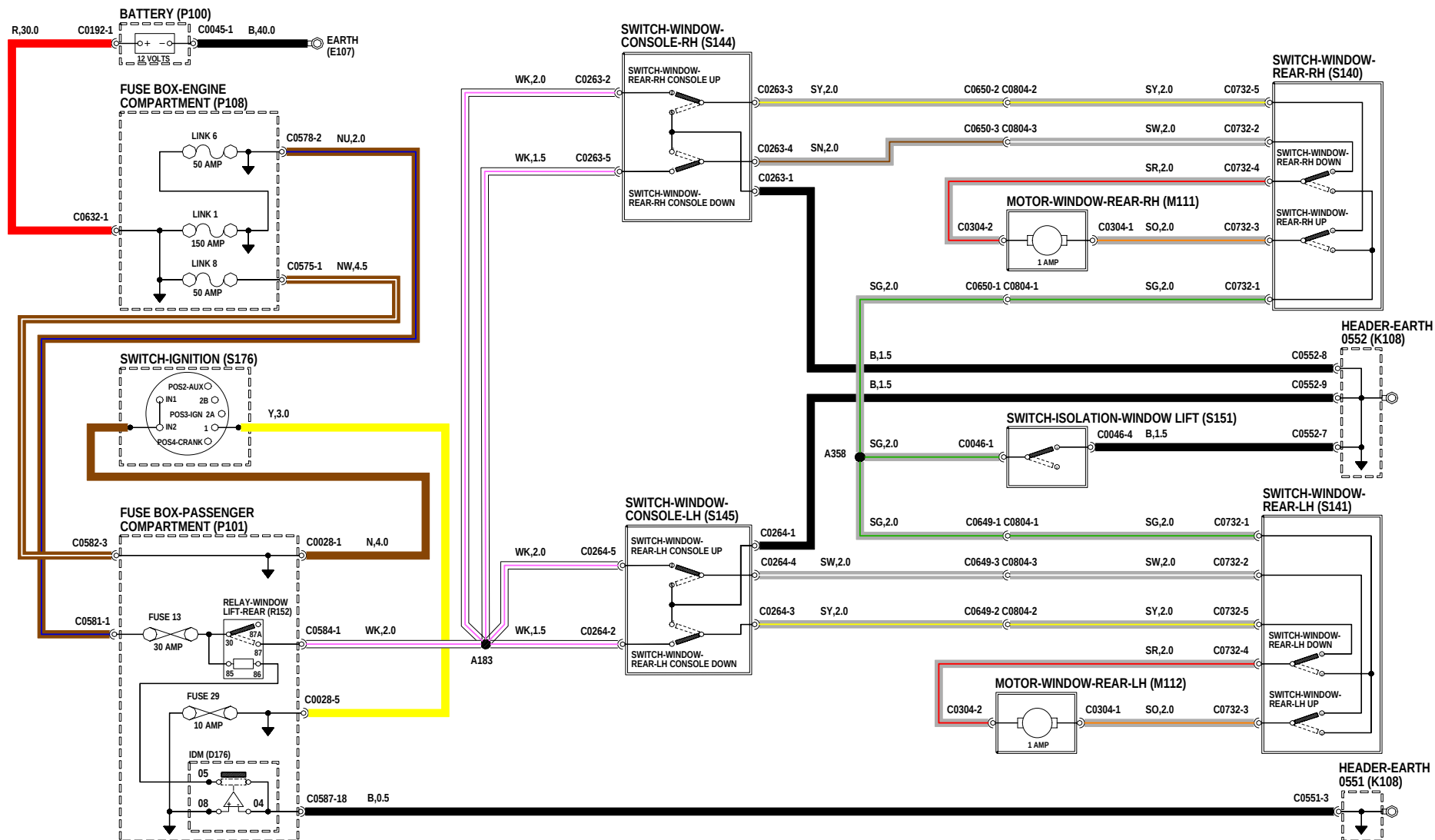


CENTRAL DOOR LOCKING

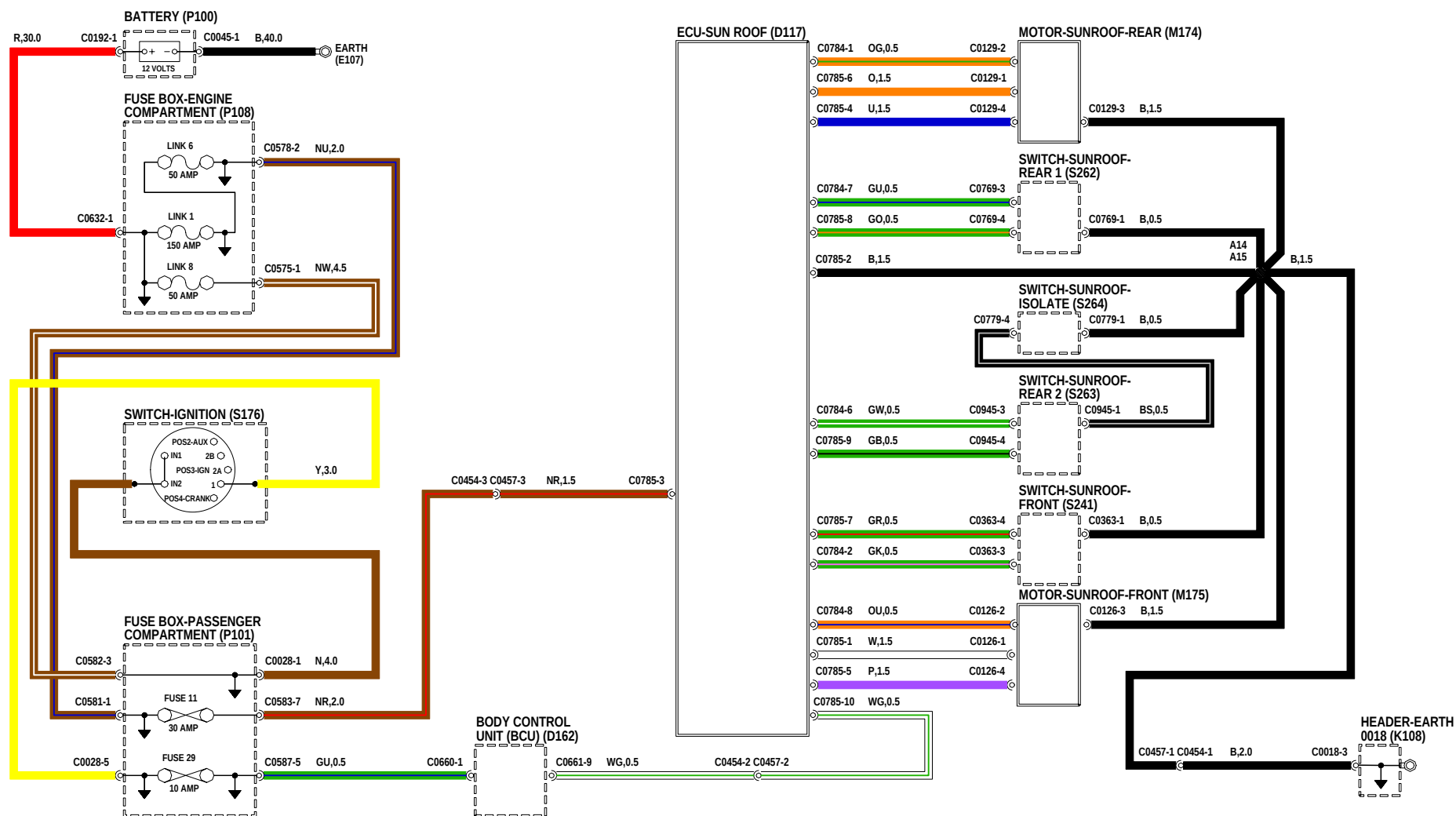


WINDOWS FRONT

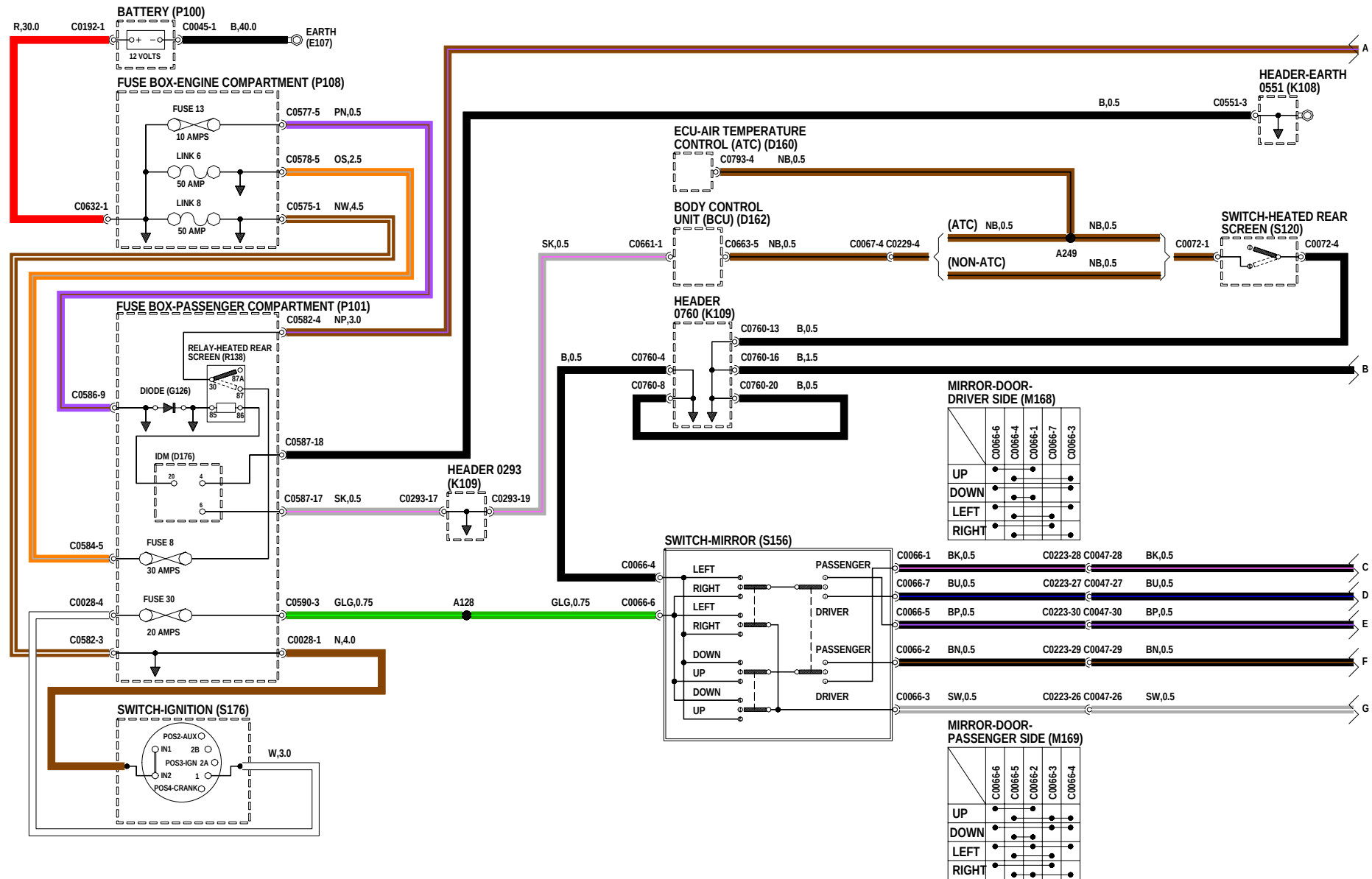




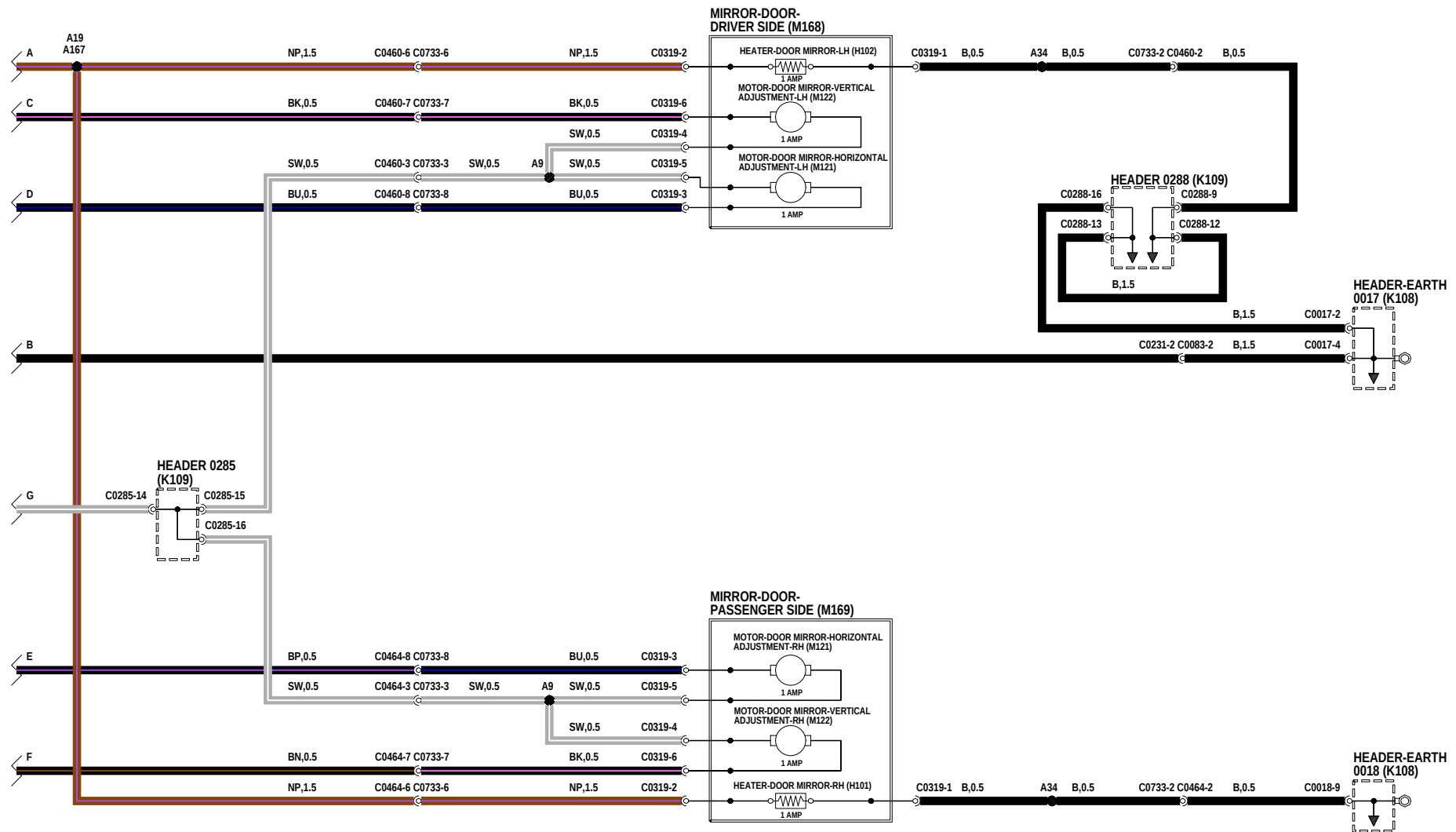
SUNROOF



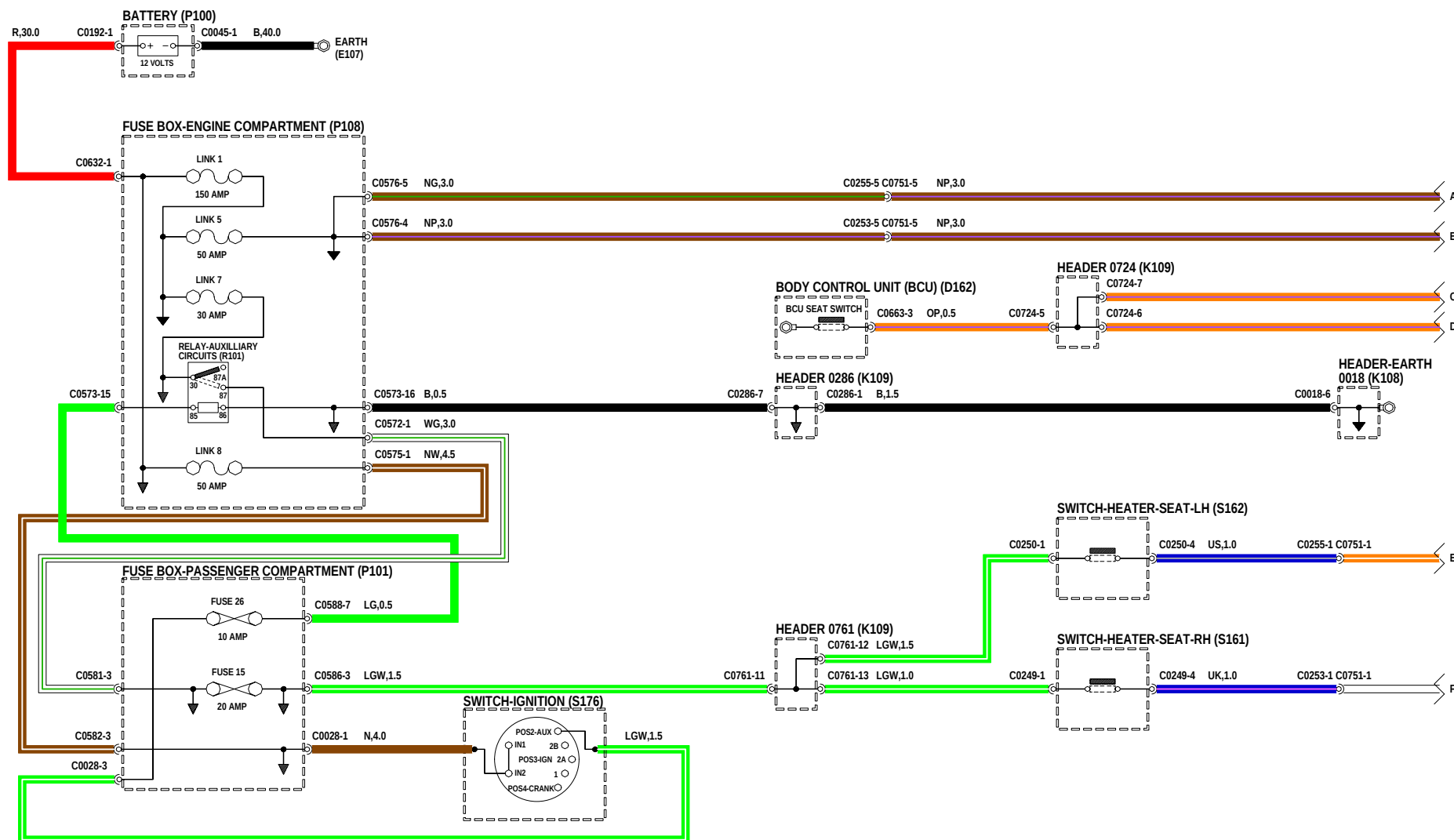
DOOR MIRRORS



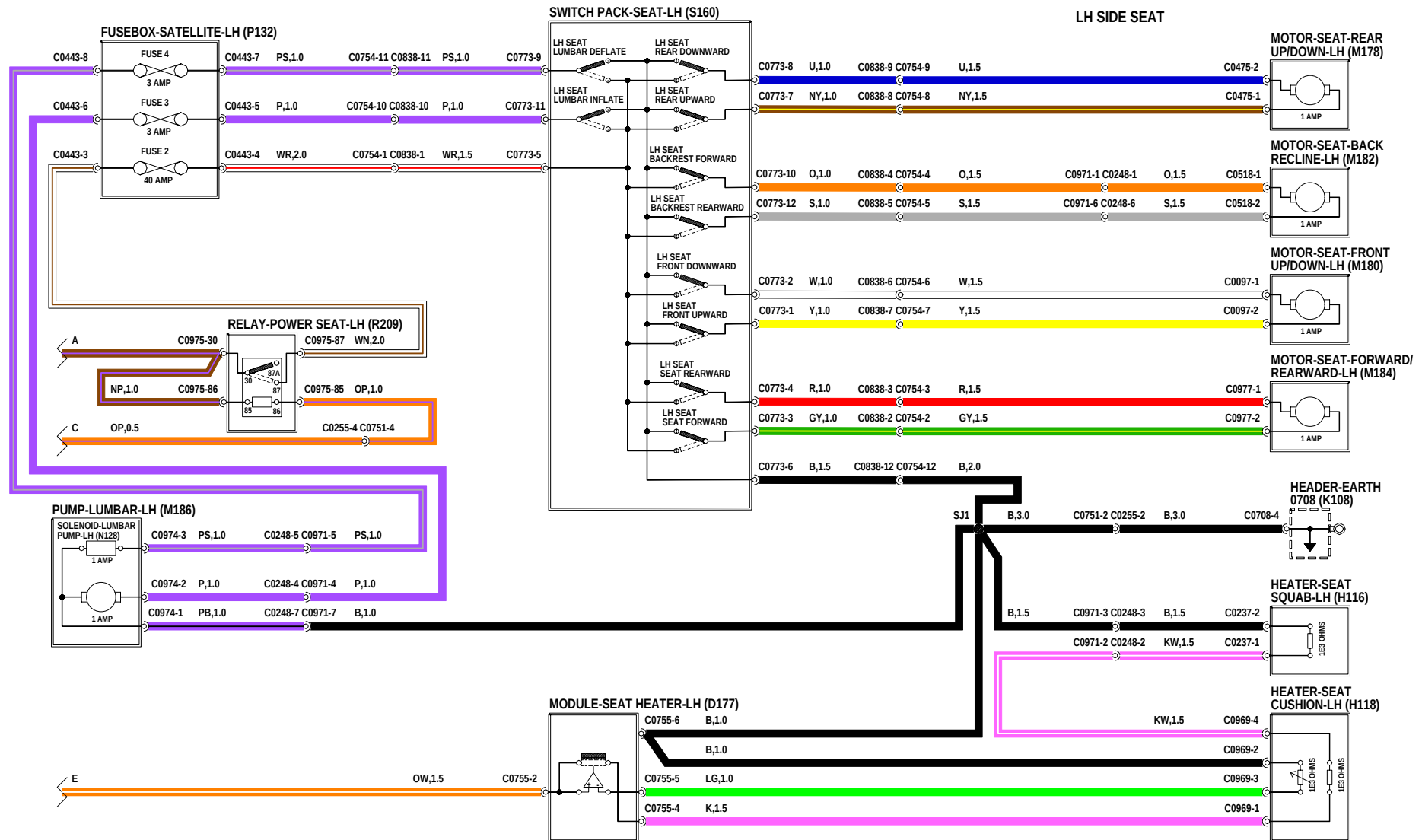
DOOR MIRRORS



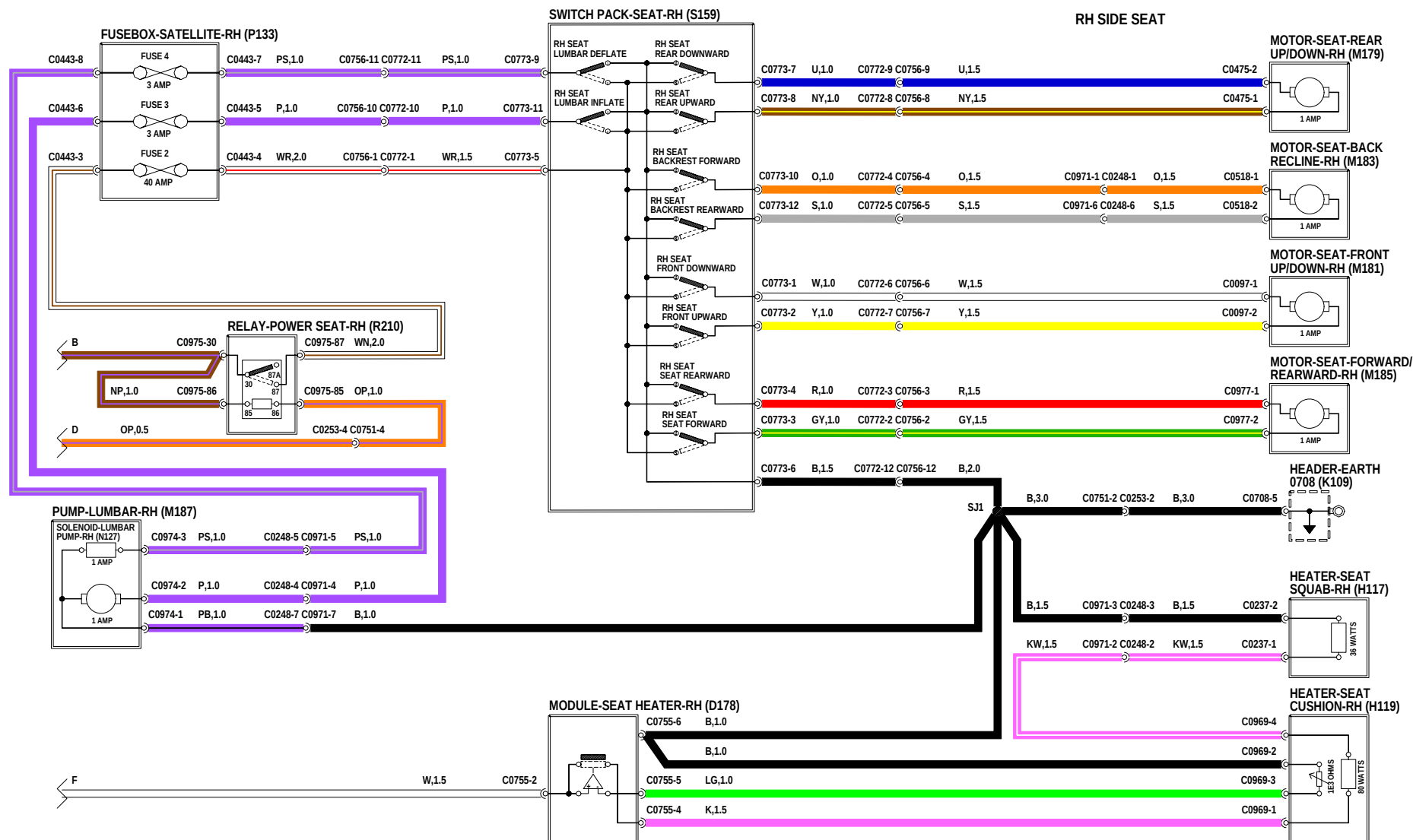
SEATS



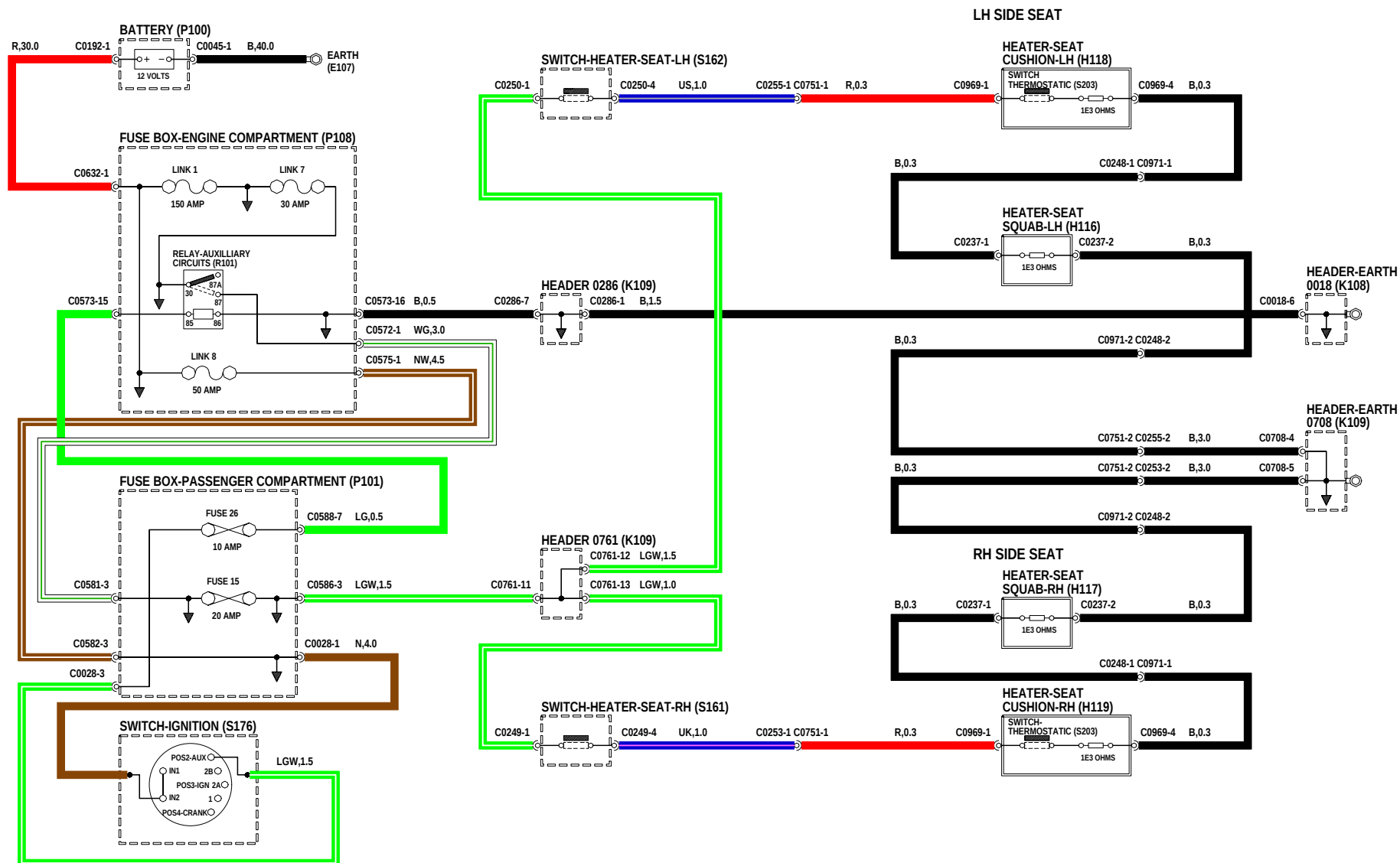
SEATS



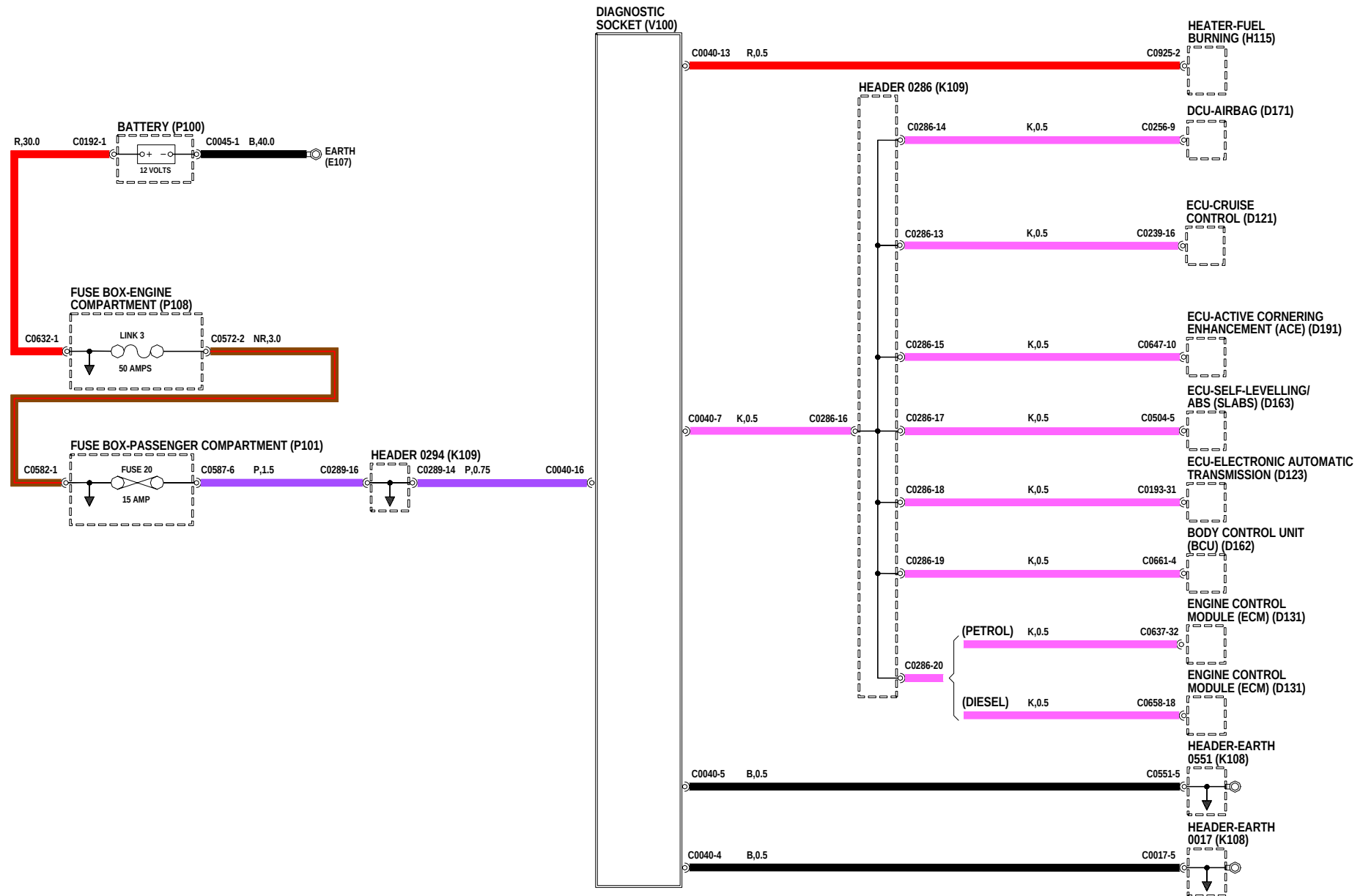
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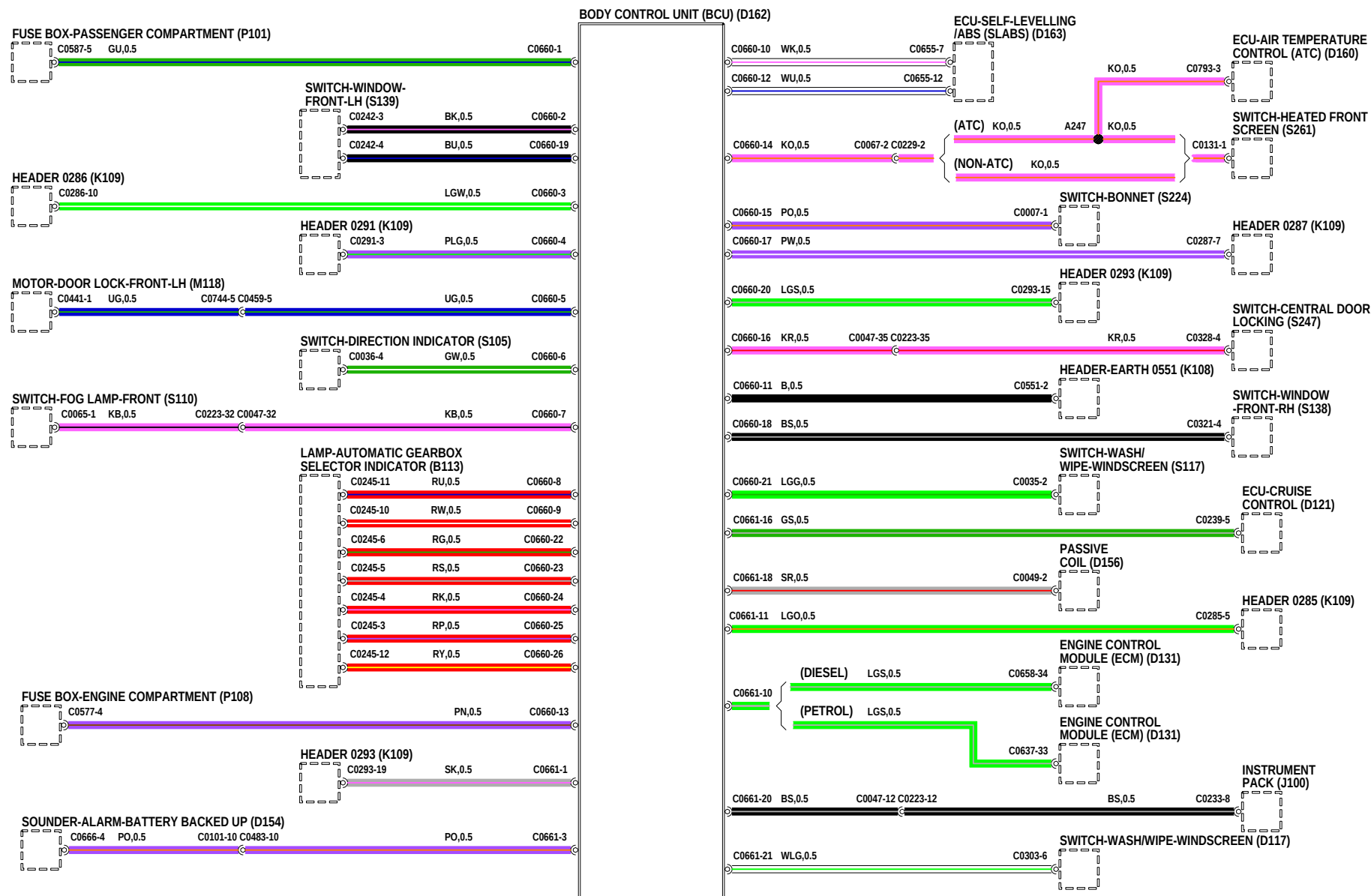
SEATS HEATED SEATS



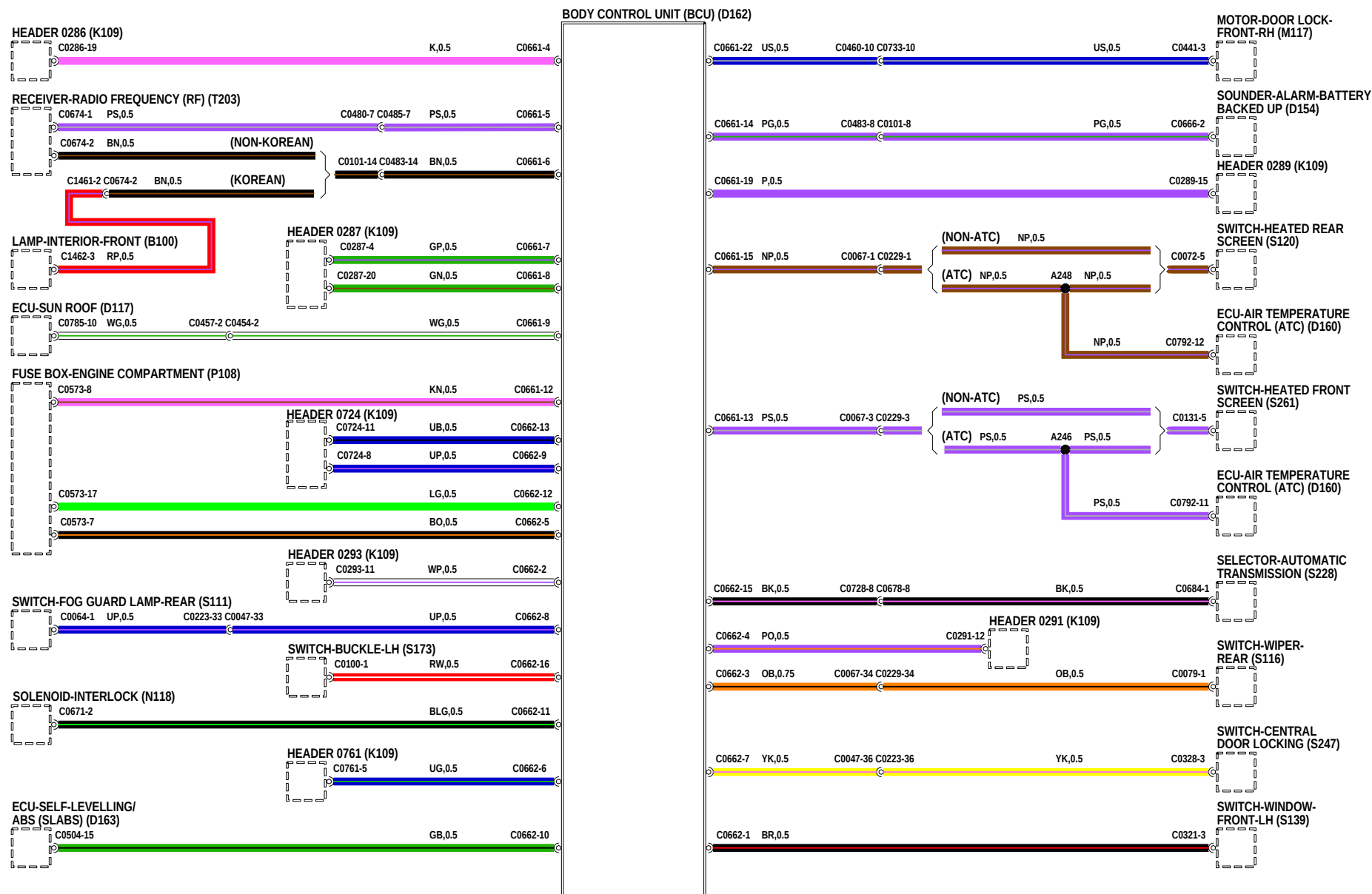
DIAGNOSTIC SOCKET



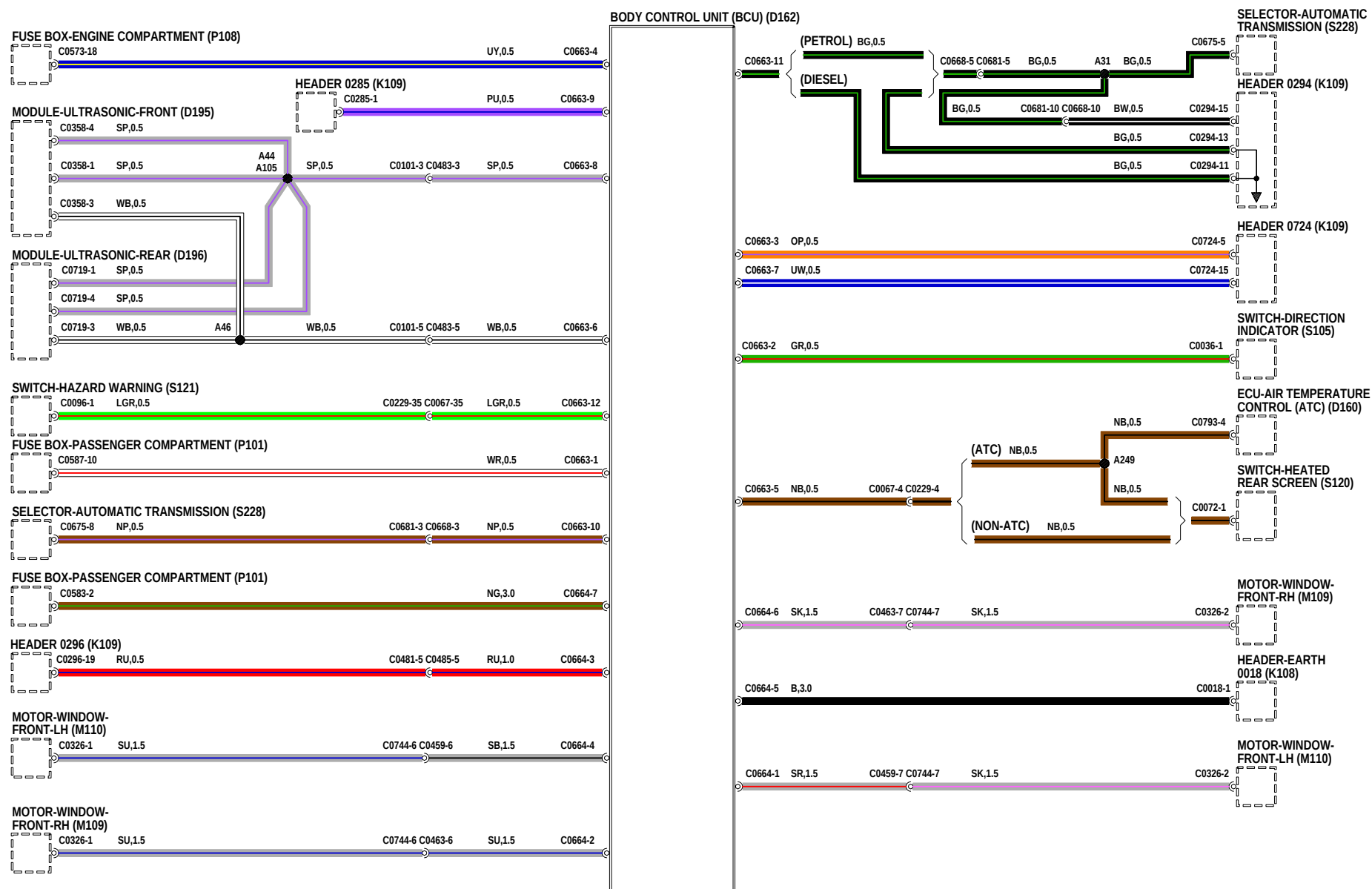
BODY CONTROL UNIT



BODY CONTROL UNIT



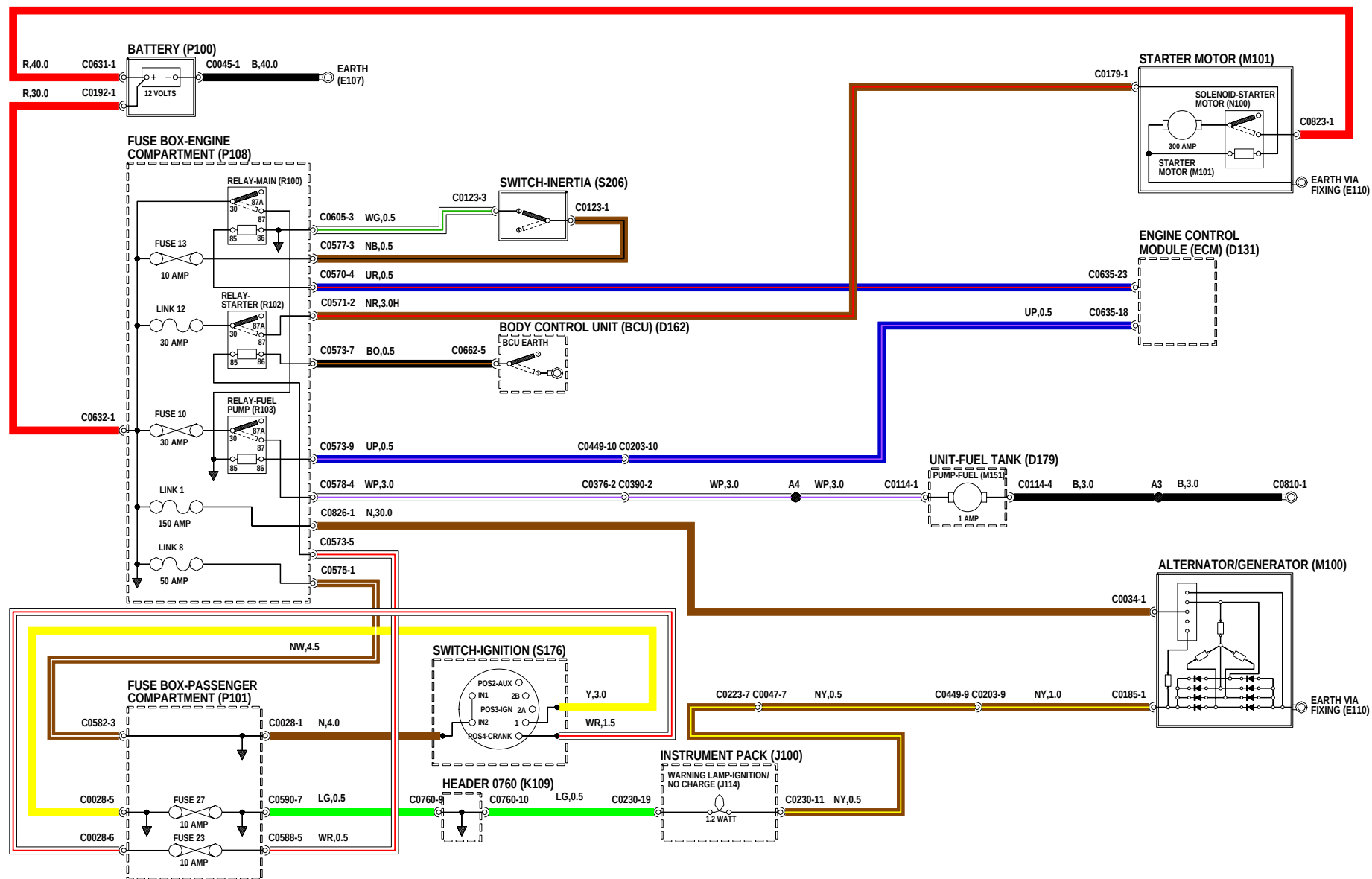
BODY CONTROL UNIT



Td5

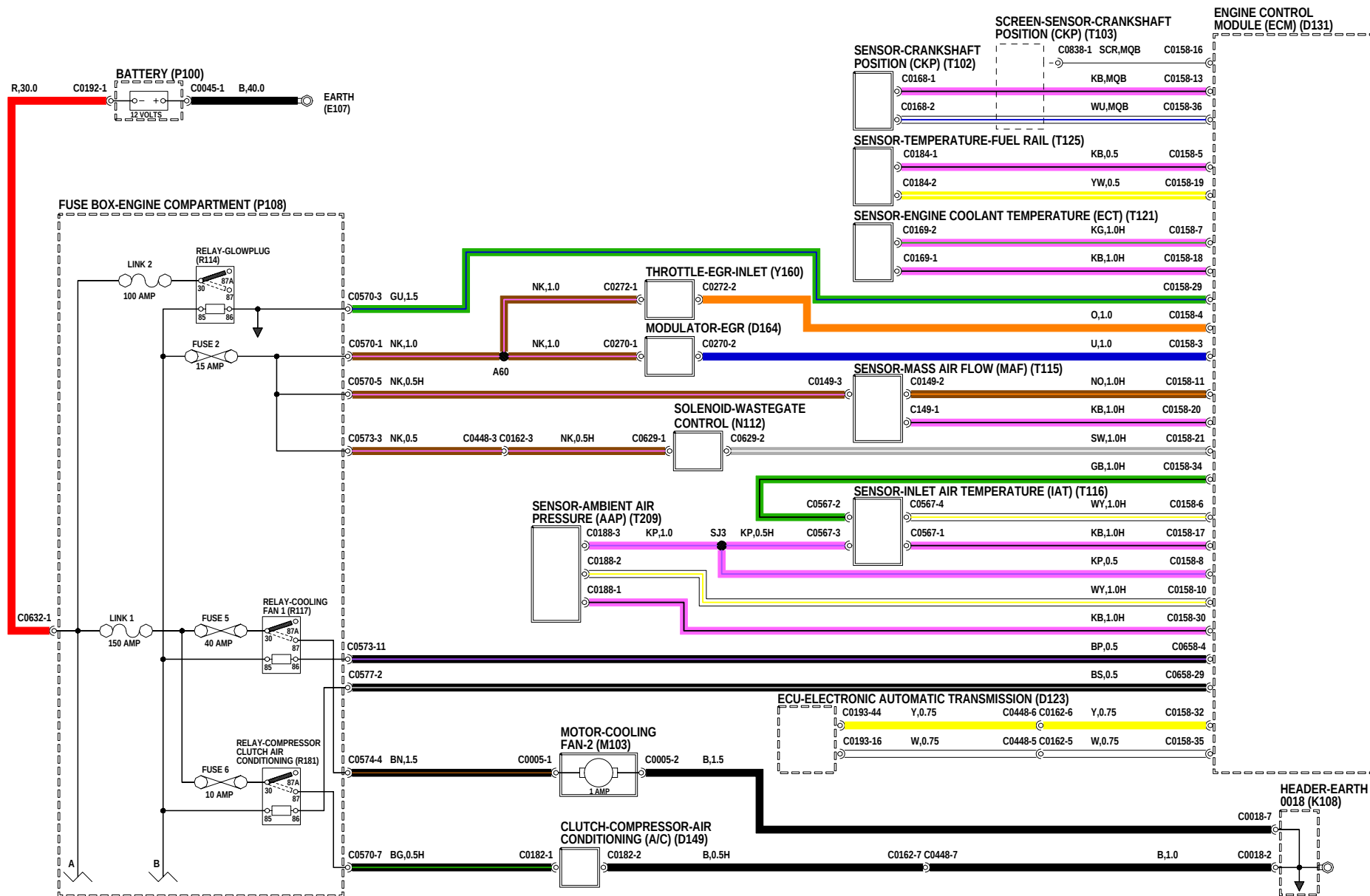


CHARGING AND STARTING V8



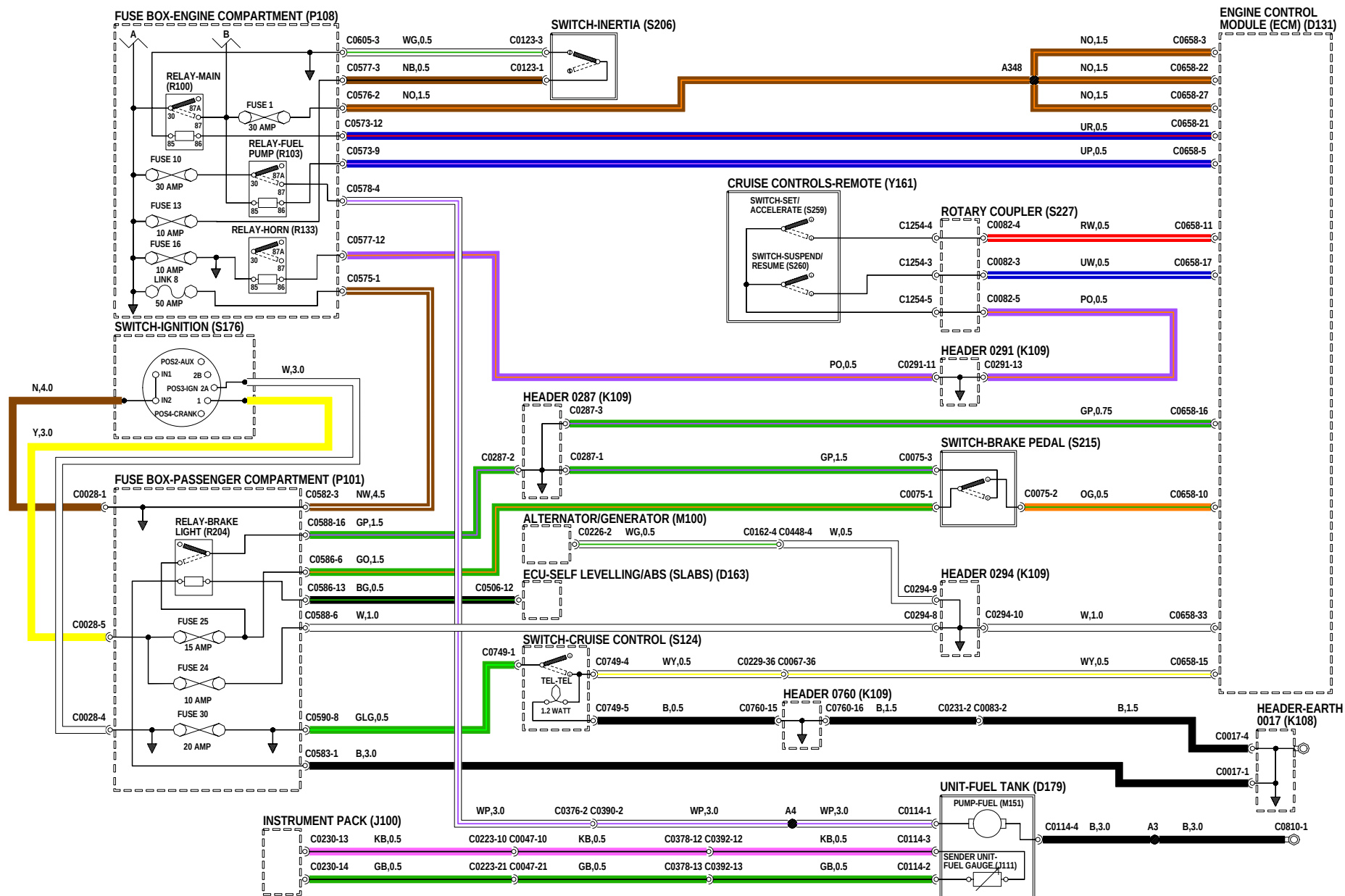
ENGINE MANAGEMENT

Td5



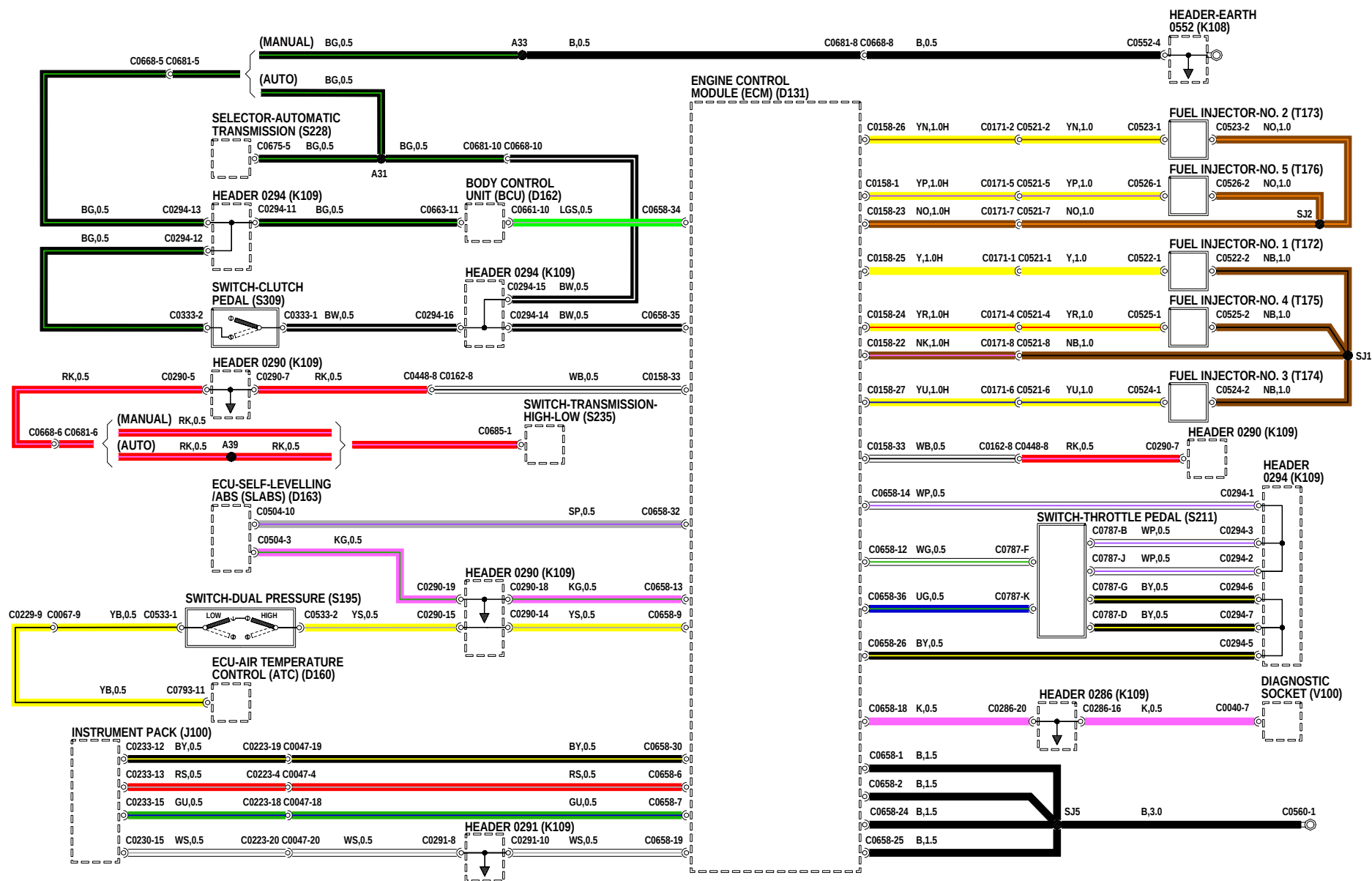
ENGINE MANAGEMENT

Td5

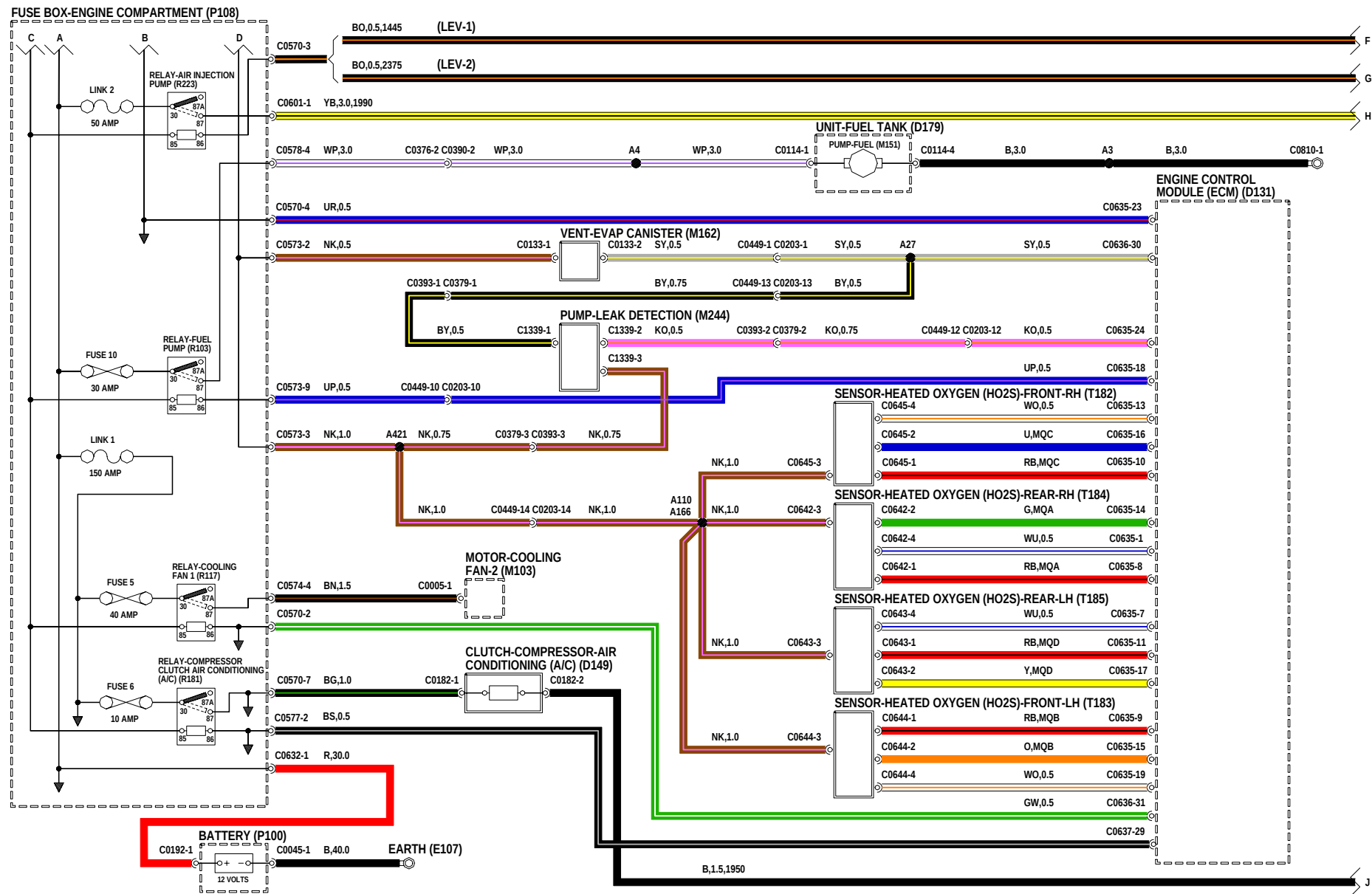


ENGINE MANAGEMENT

Td5

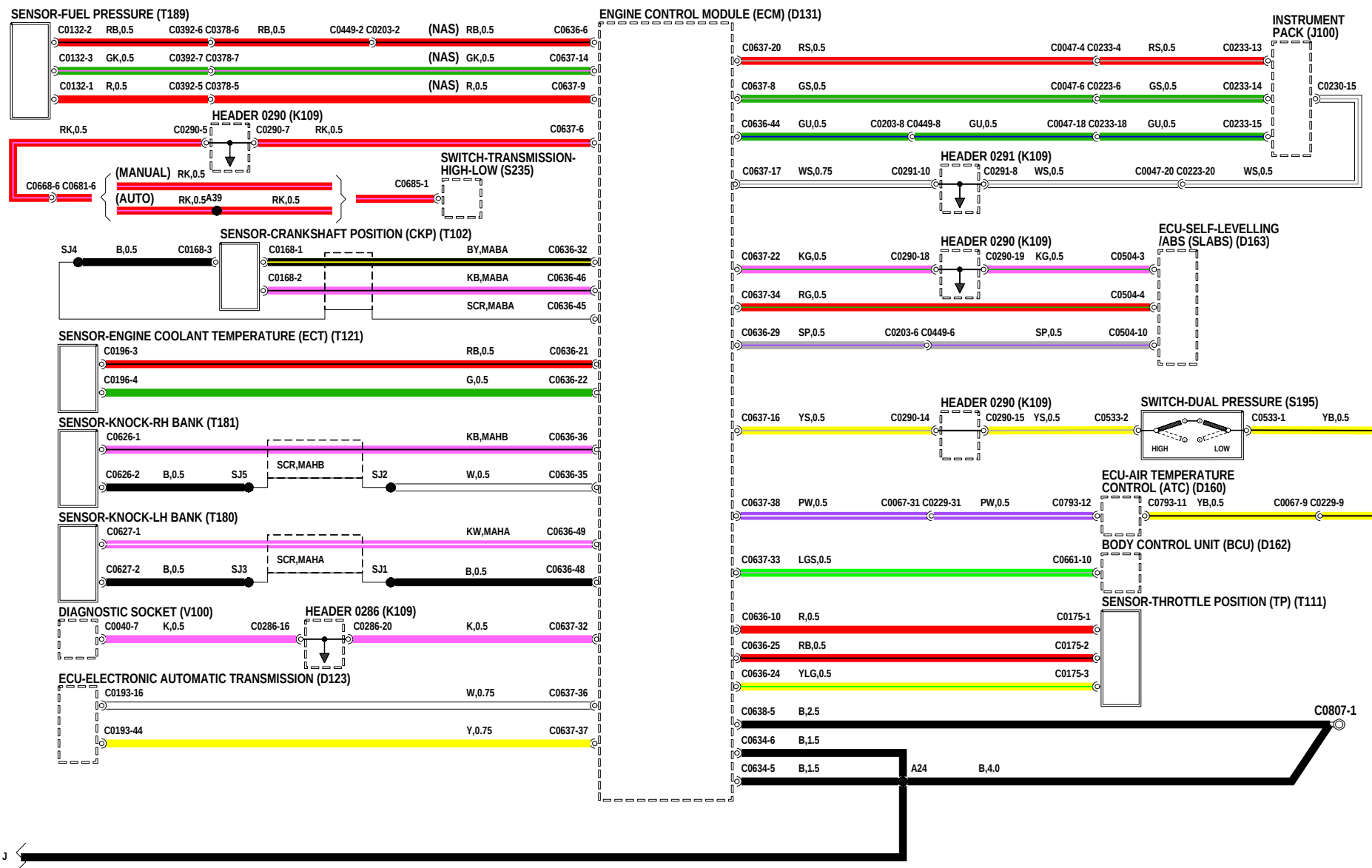


ENGINE MANAGEMENT V8



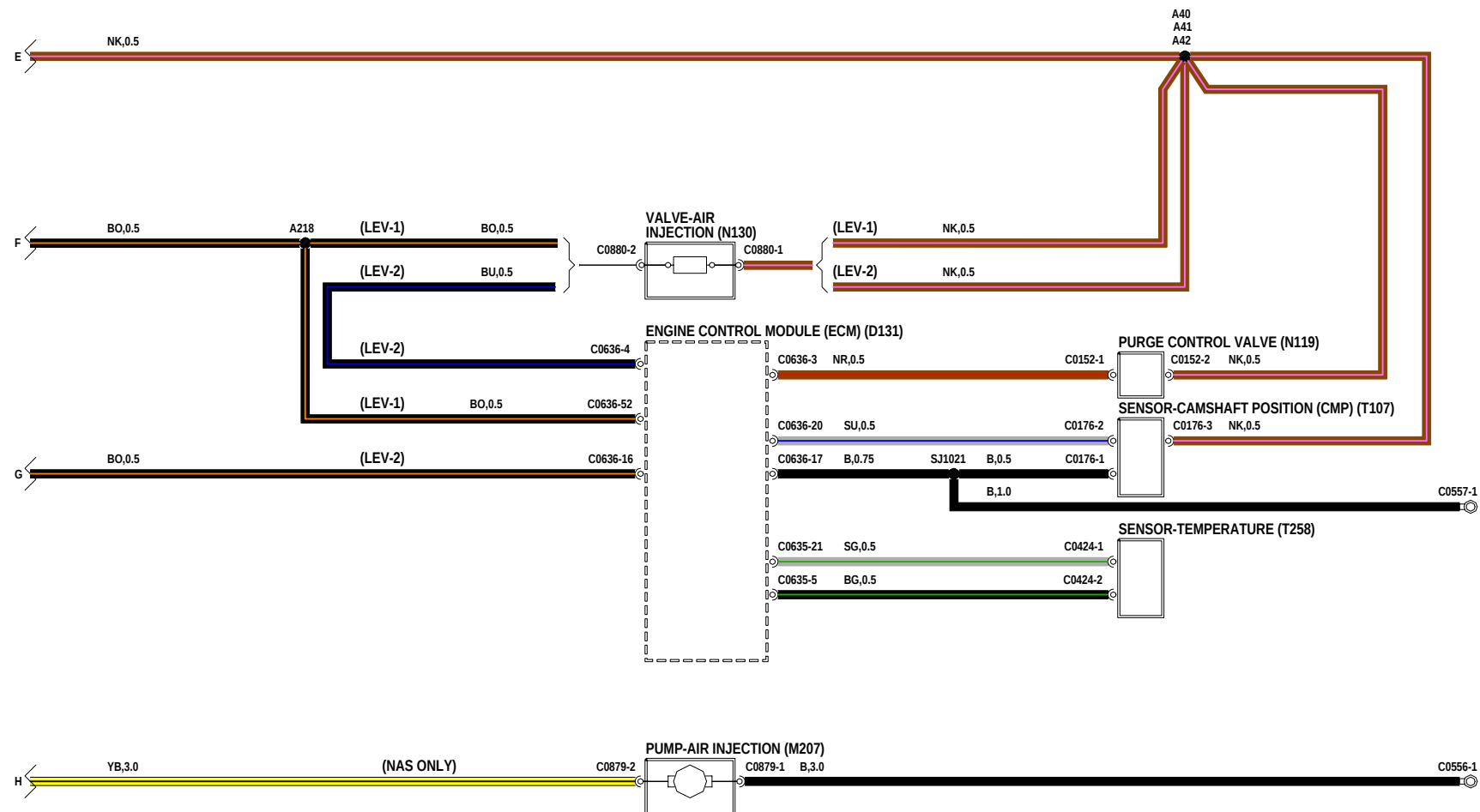
ENGINE MANAGEMENT

V8



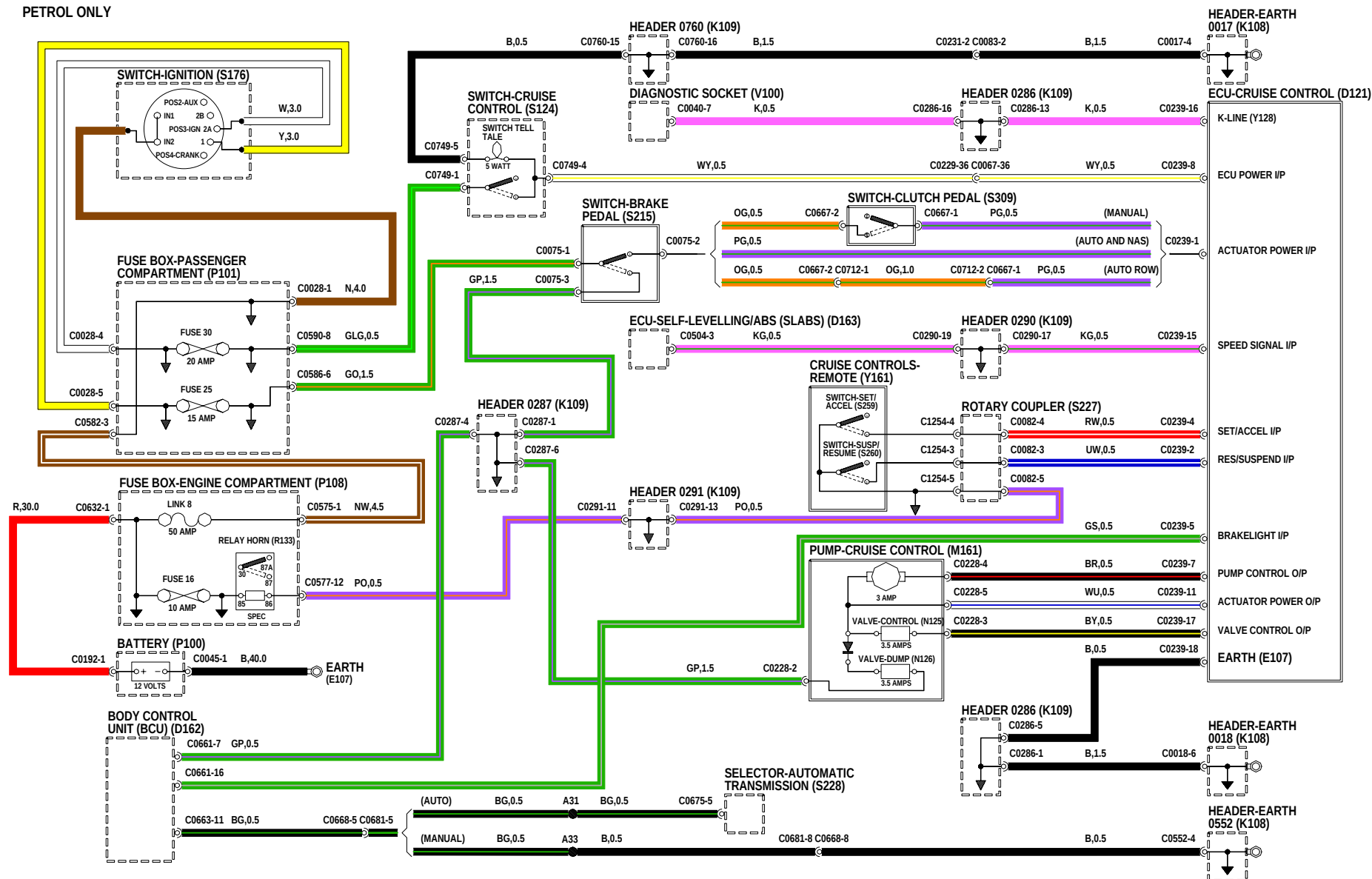
ENGINE MANAGEMENT

V8

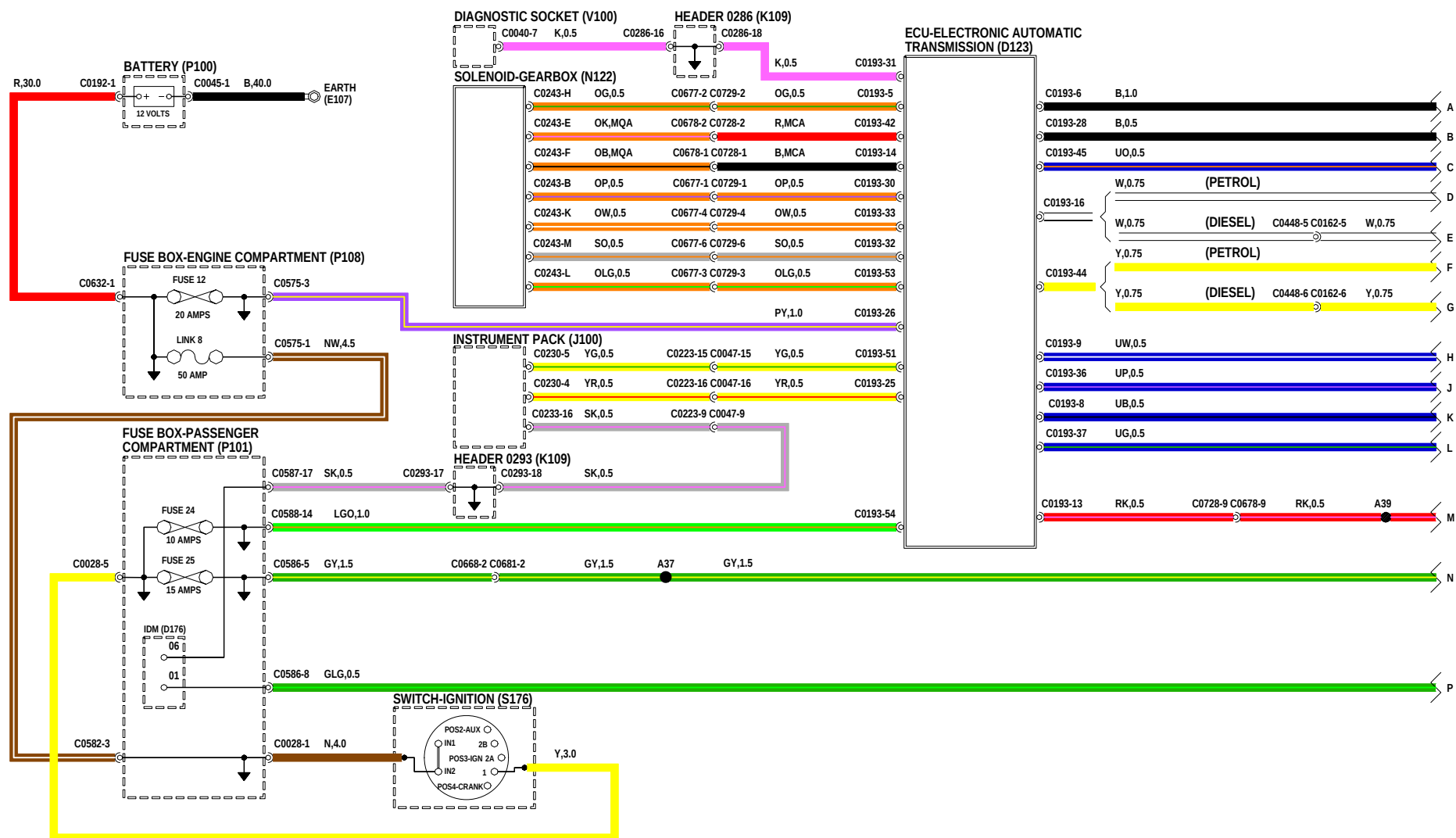


CRUISE CONTROL

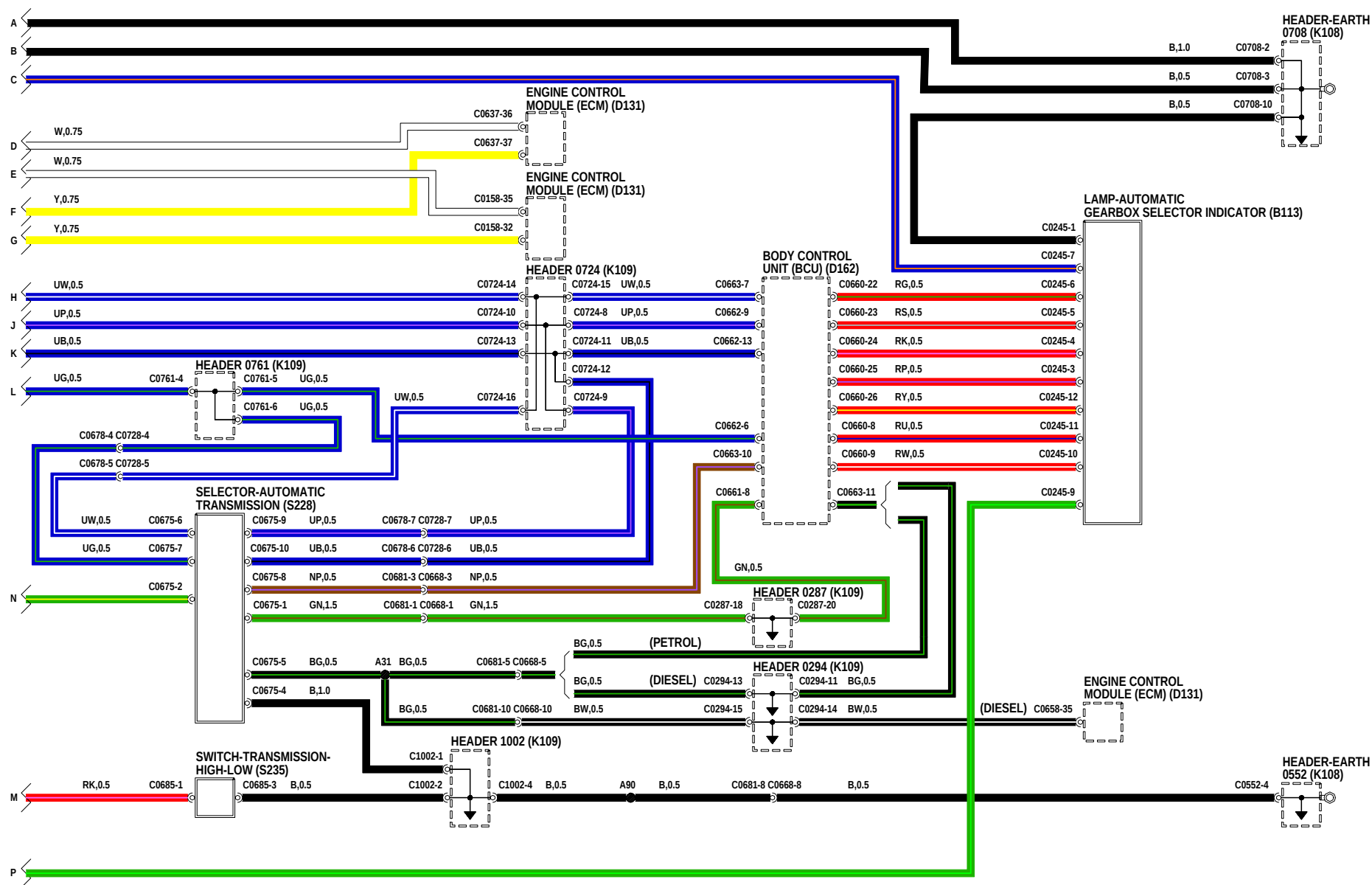
PETROL ONLY



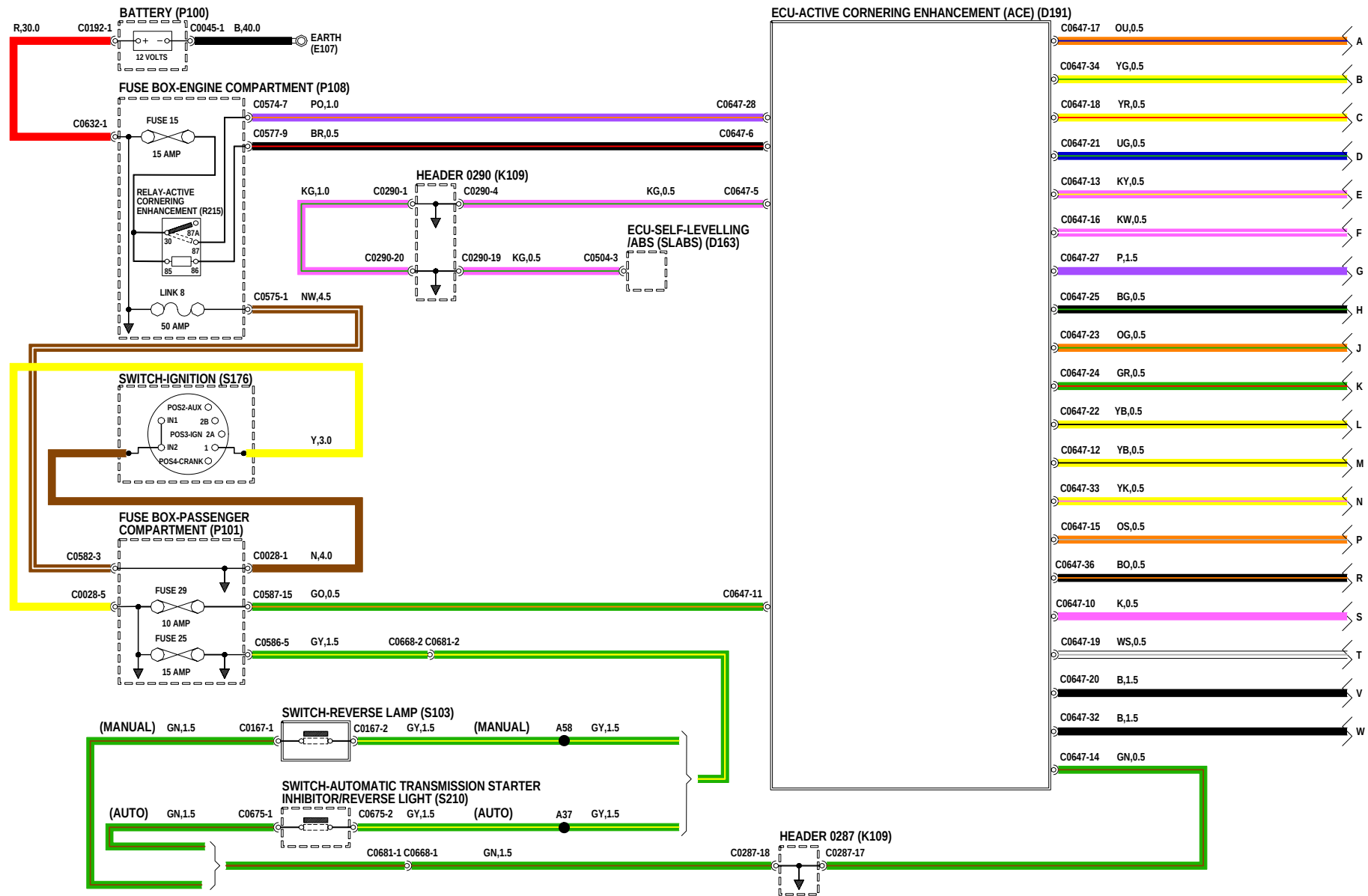
ELECTRONIC AUTOMATIC TRANSMISSION



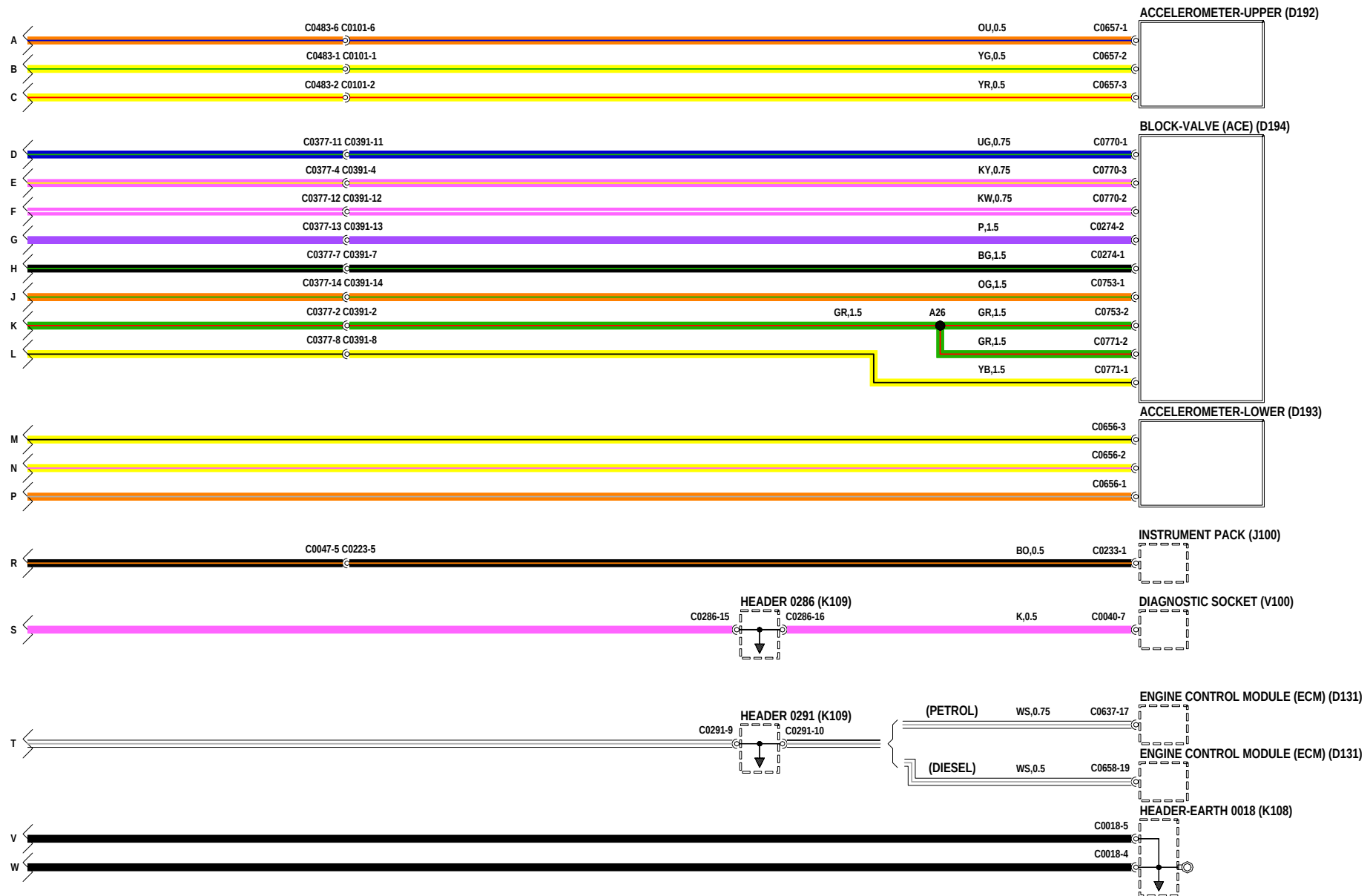
ELECTRONIC AUTOMATIC TRANSMISSION



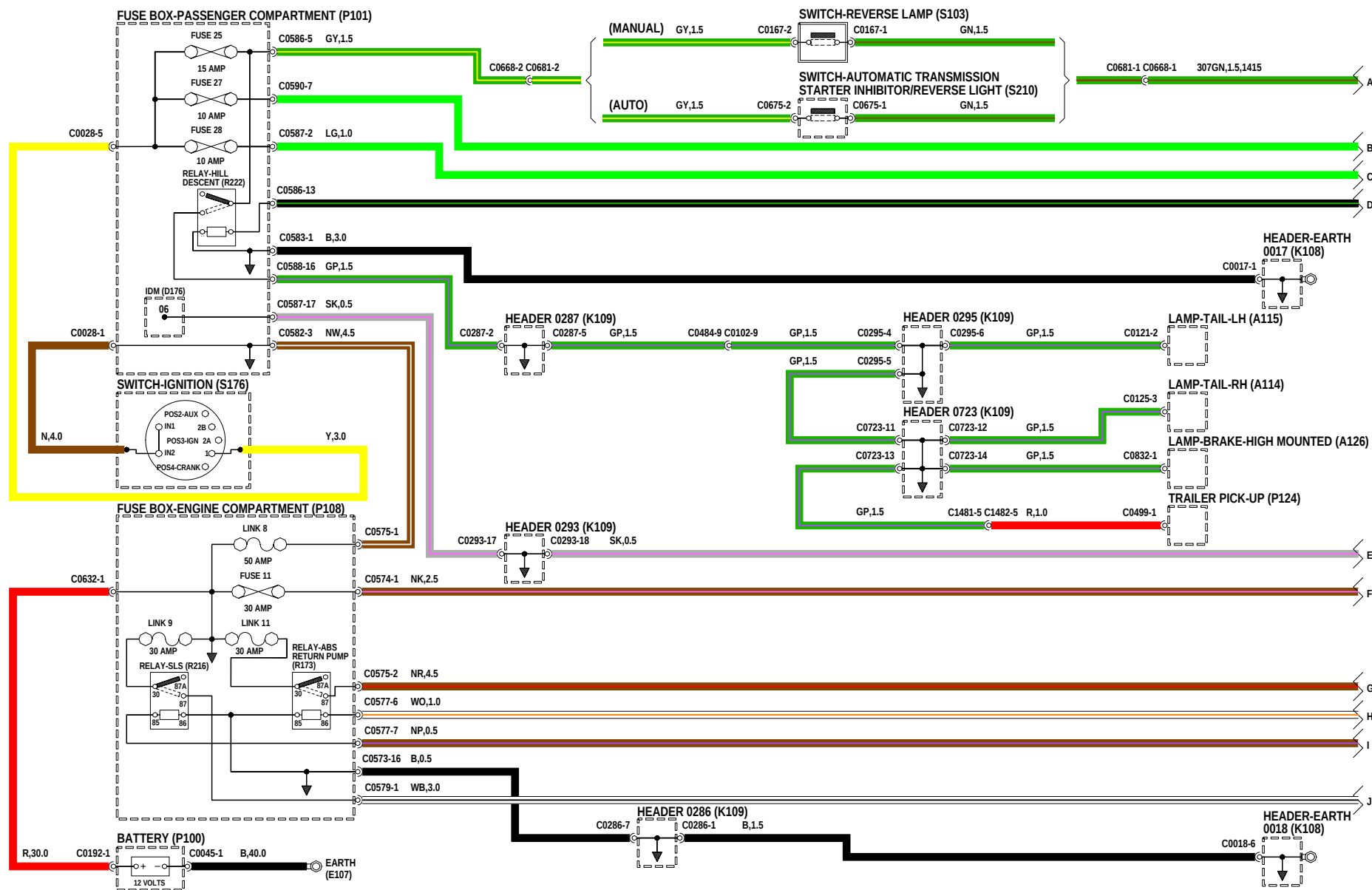
ACTIVE CORNERING ENHANCEMENT (ACE)



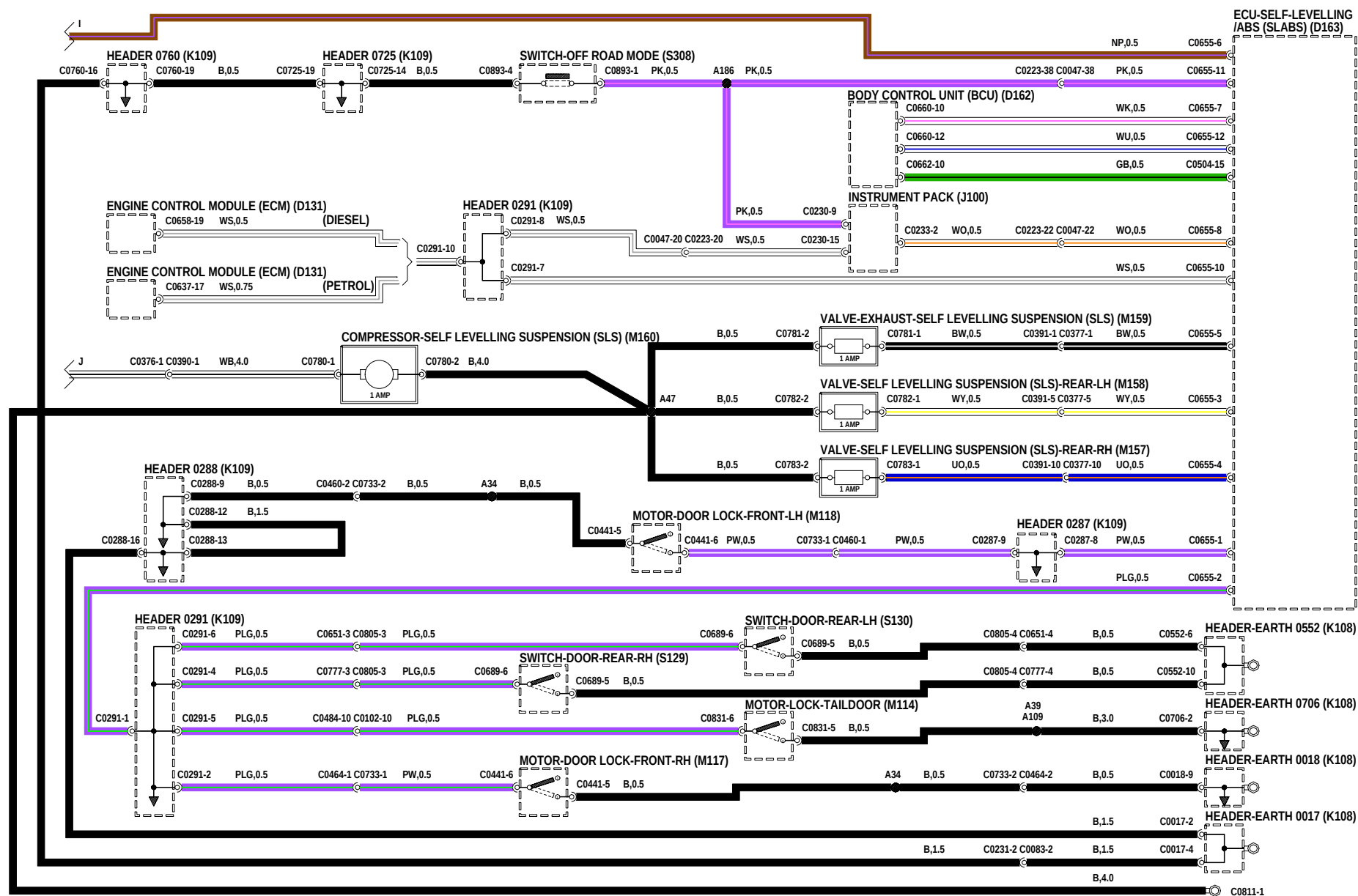
ACTIVE CORNERING ENHANCEMENT (ACE)



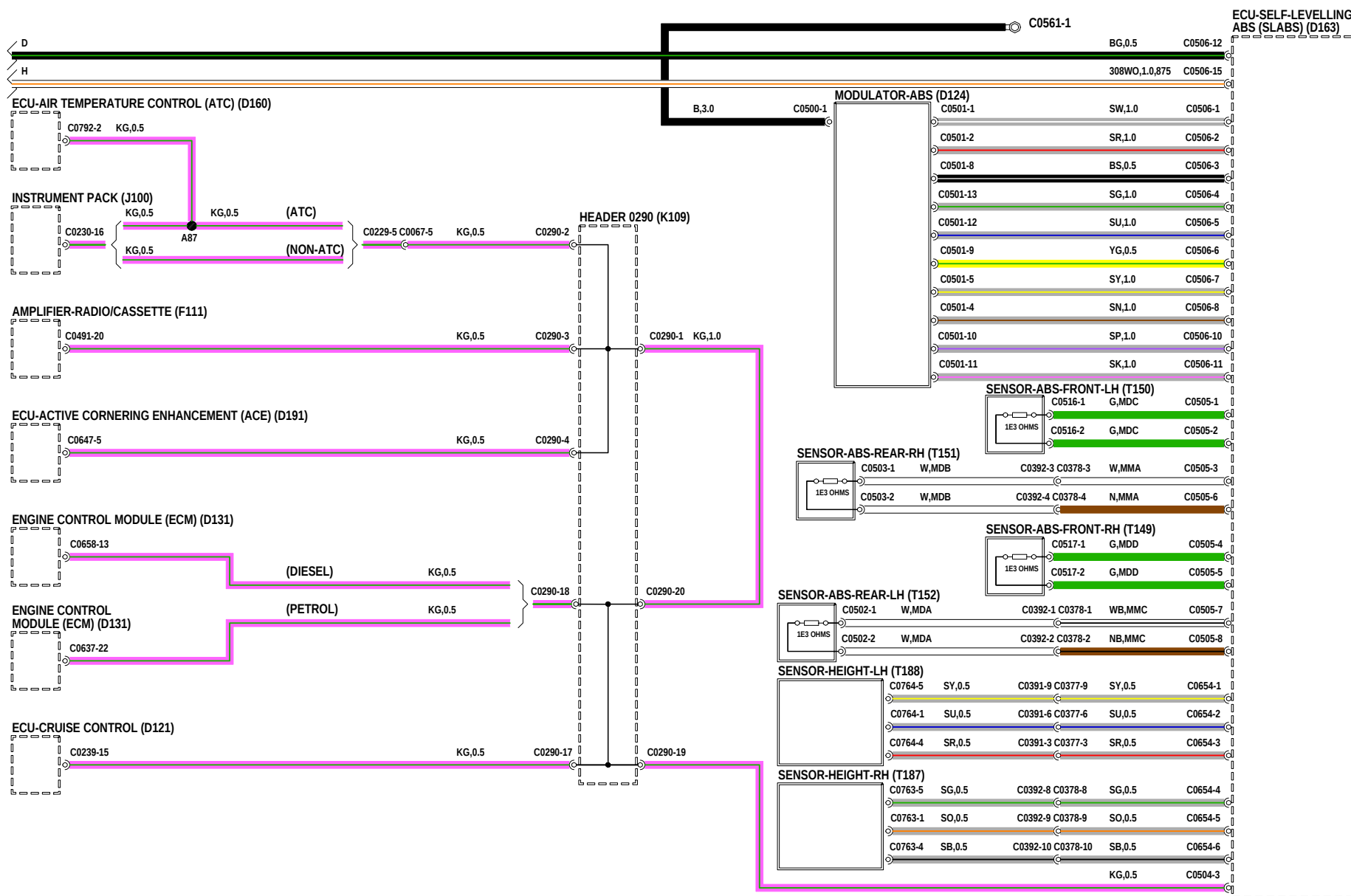
SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



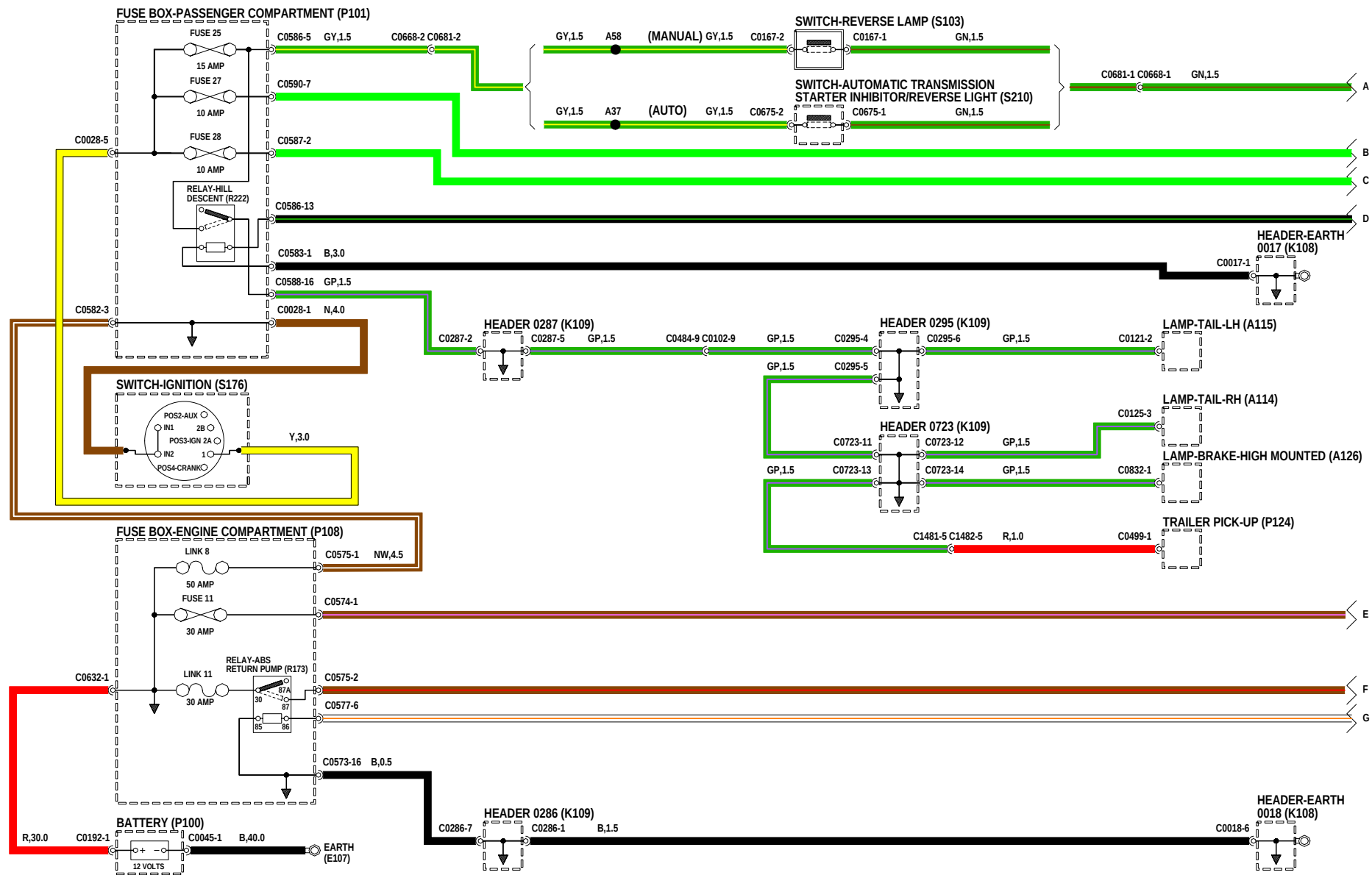
SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



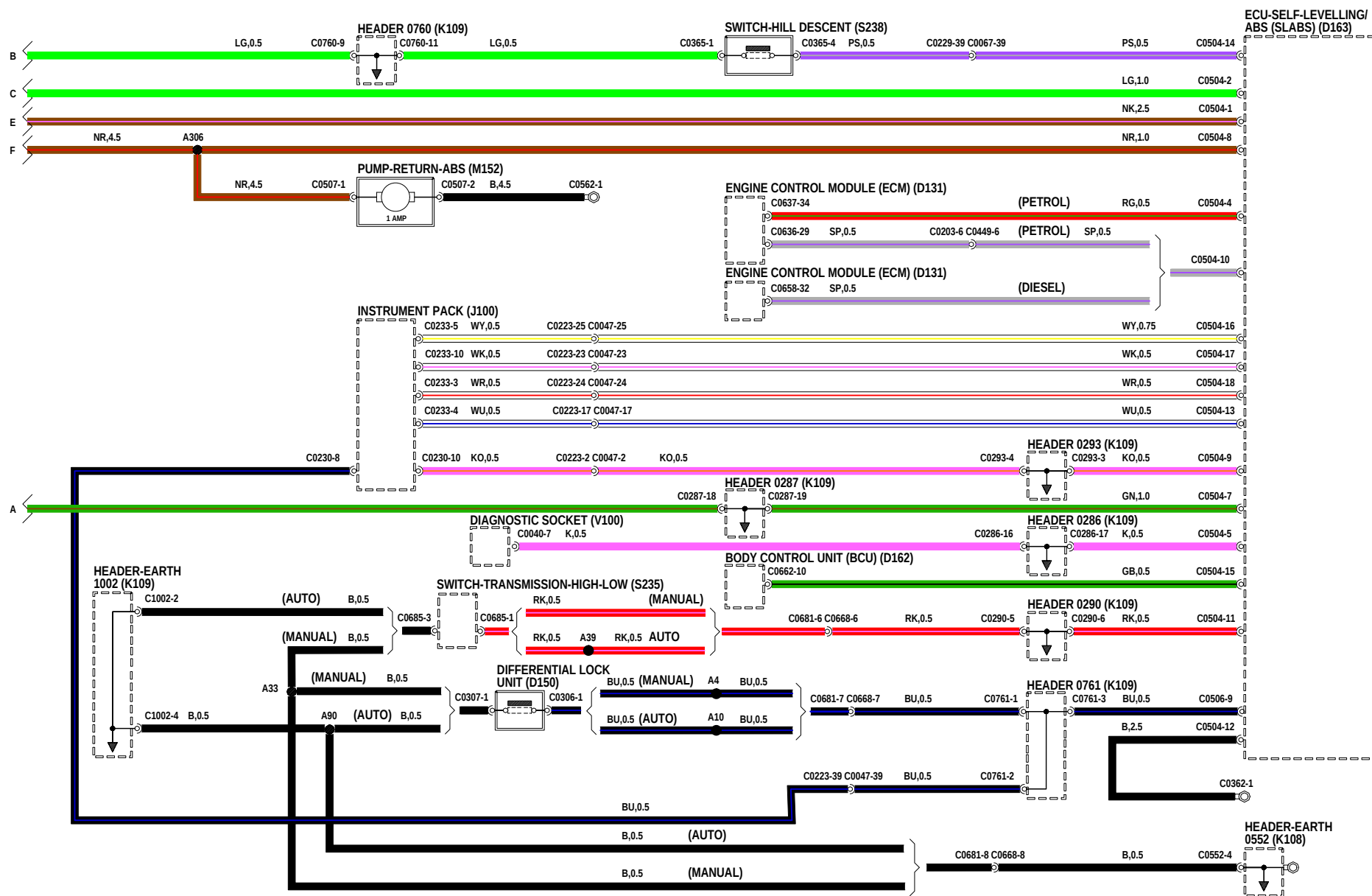
SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



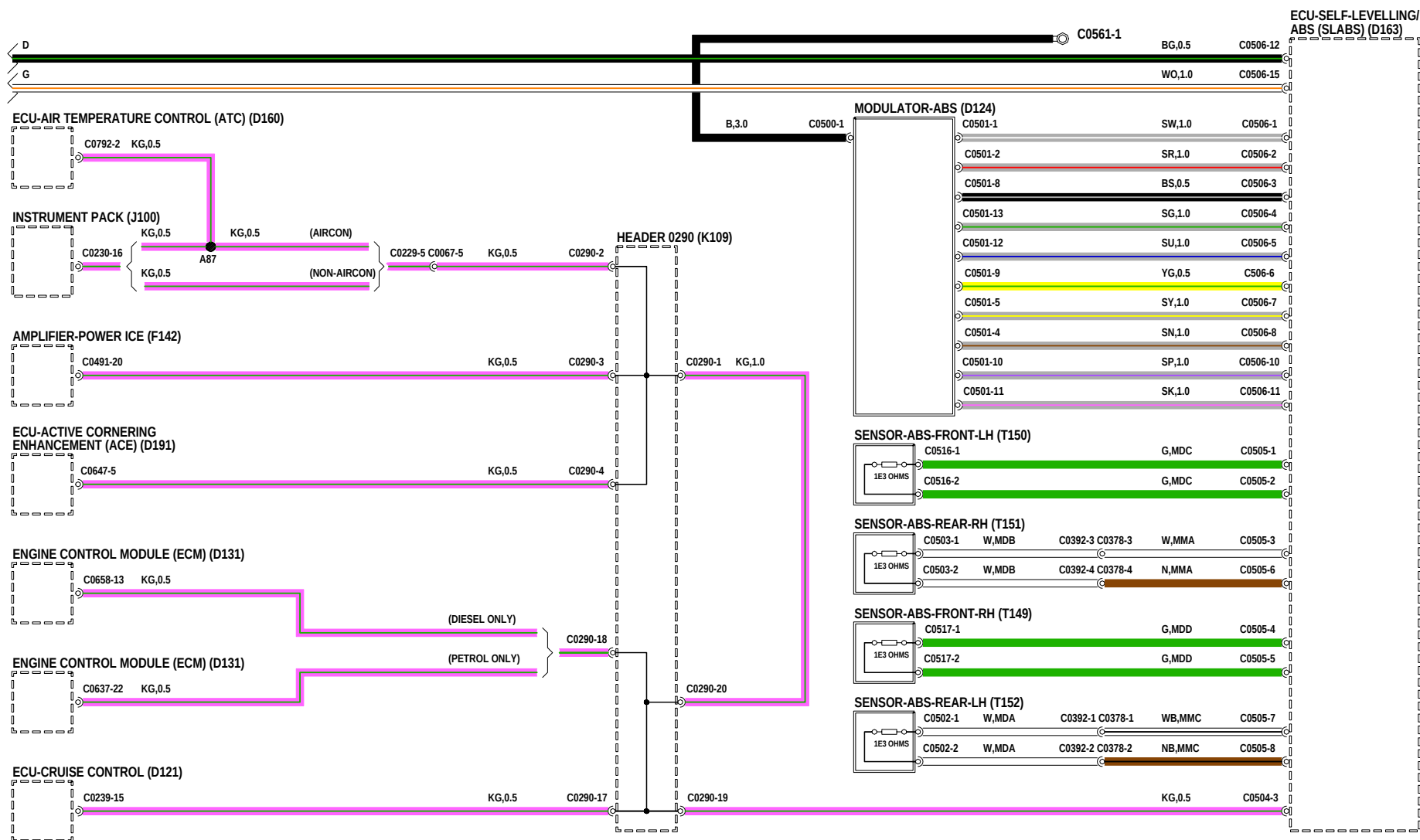
ANTI-LOCK BRAKING SYSTEM (ABS)



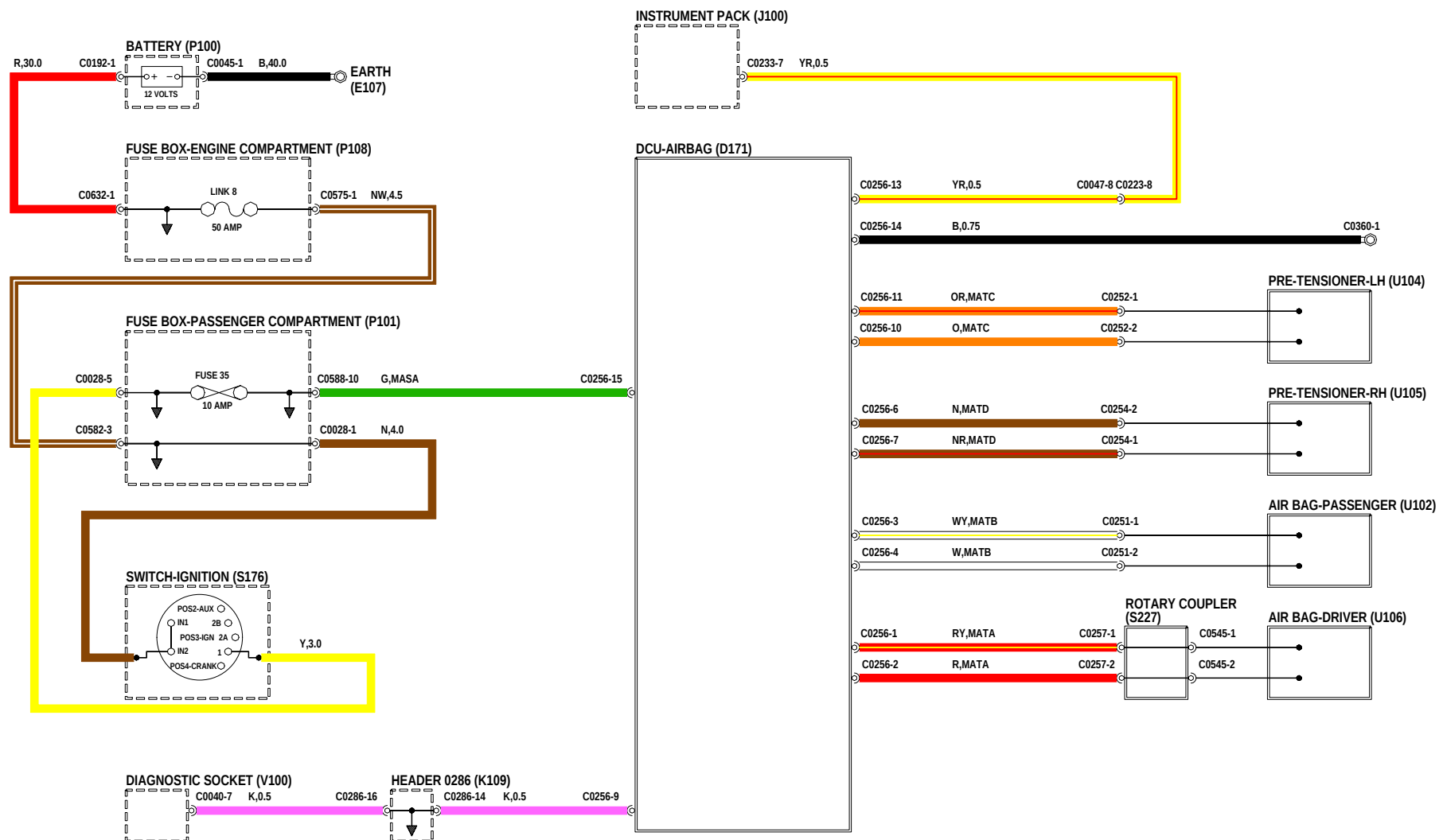
ANTI-LOCK BRAKING SYSTEM (ABS)



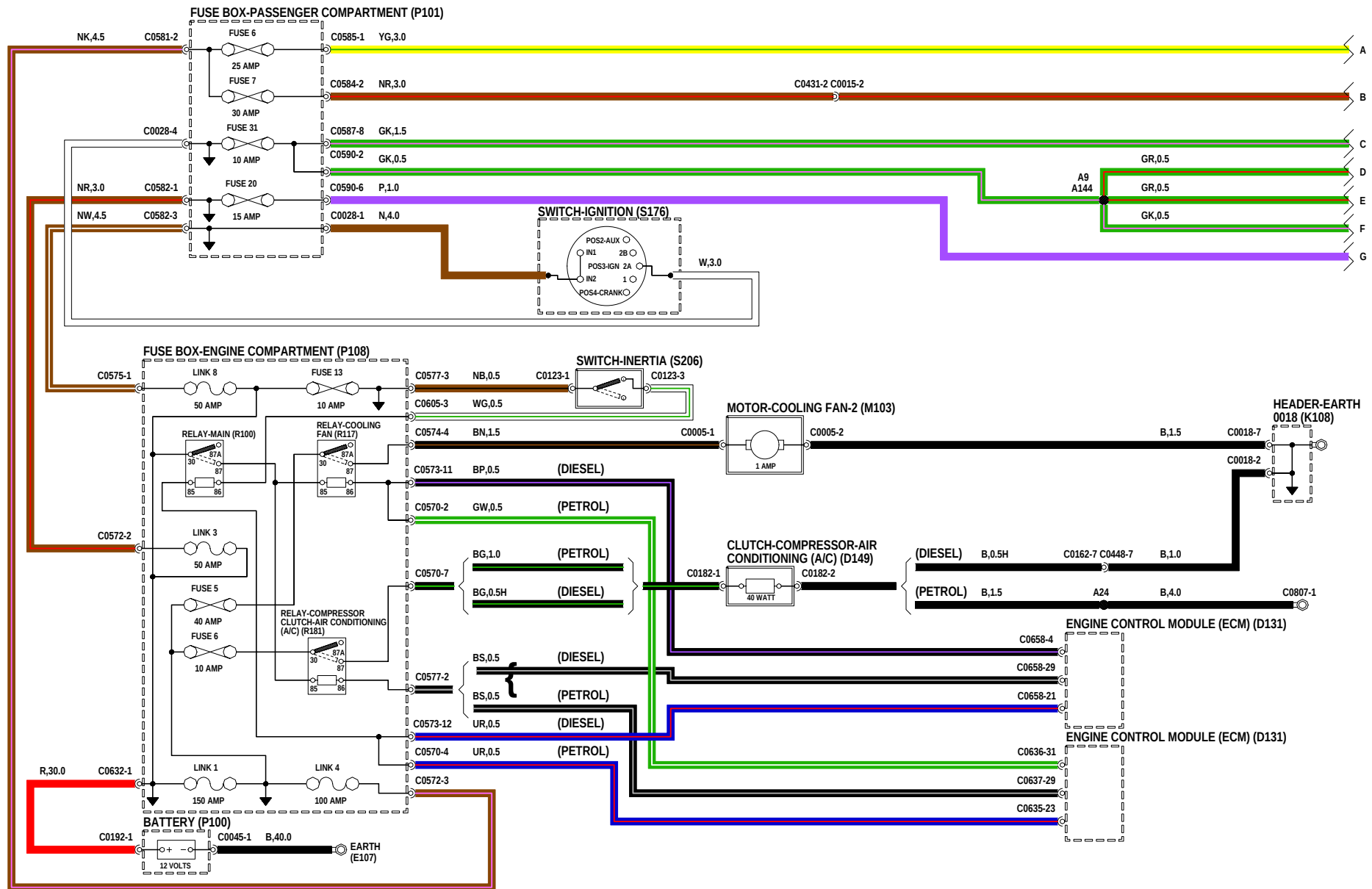
ANTI-LOCK BRAKING SYSTEM (ABS)



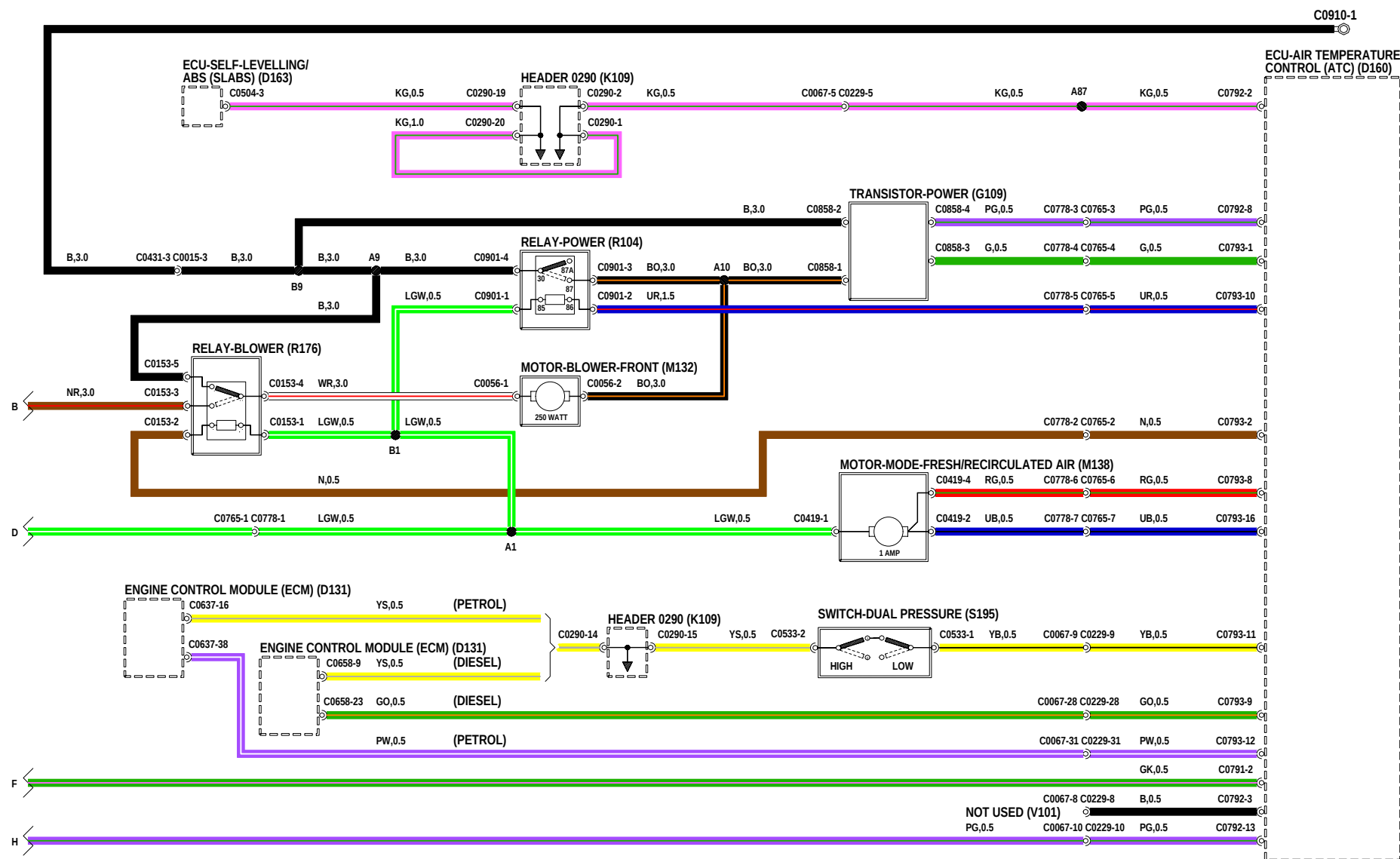
SUPPLEMENTARY RESTRAINT SYSTEM (SRS)



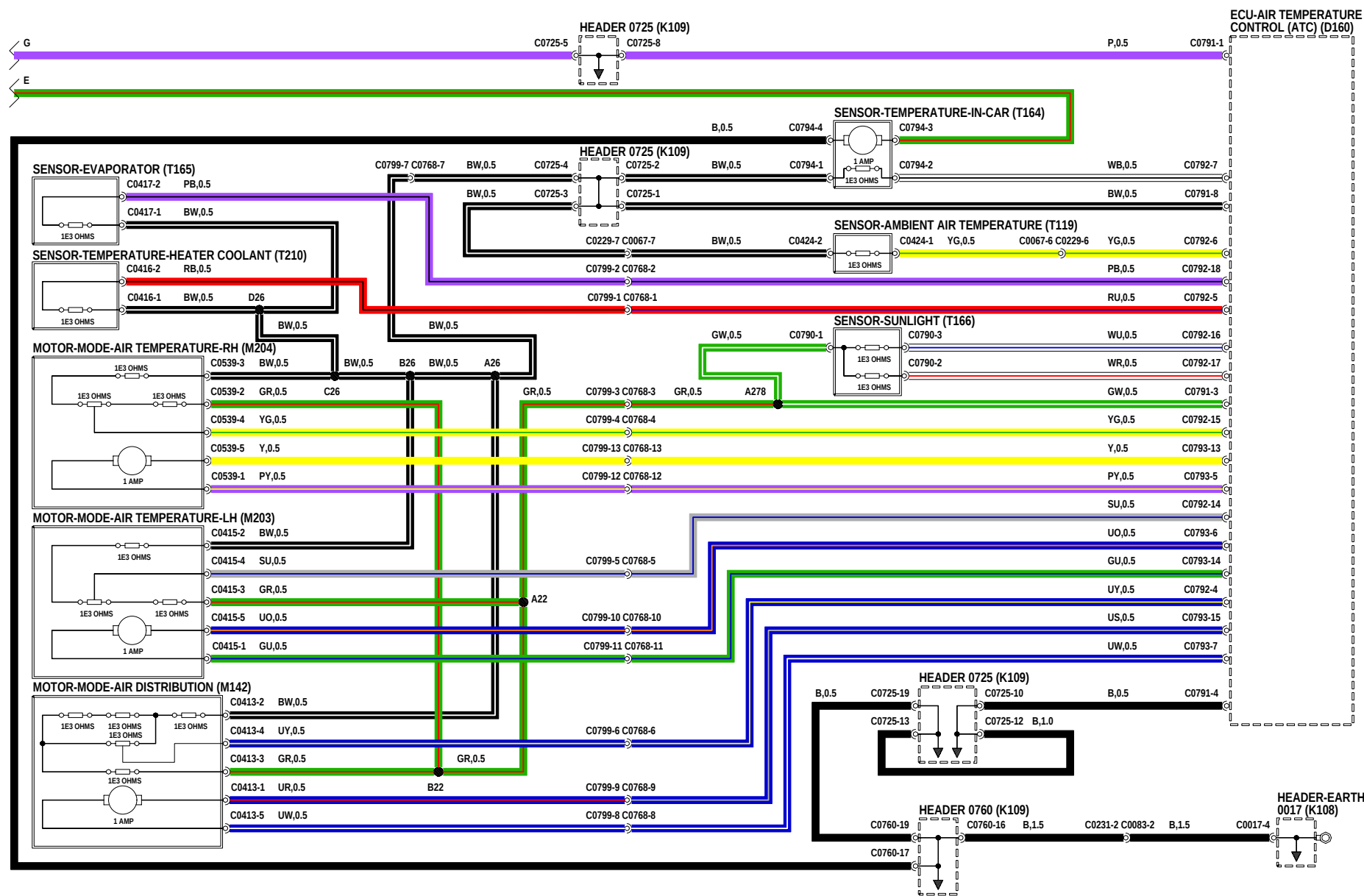
AIR CONDITIONING



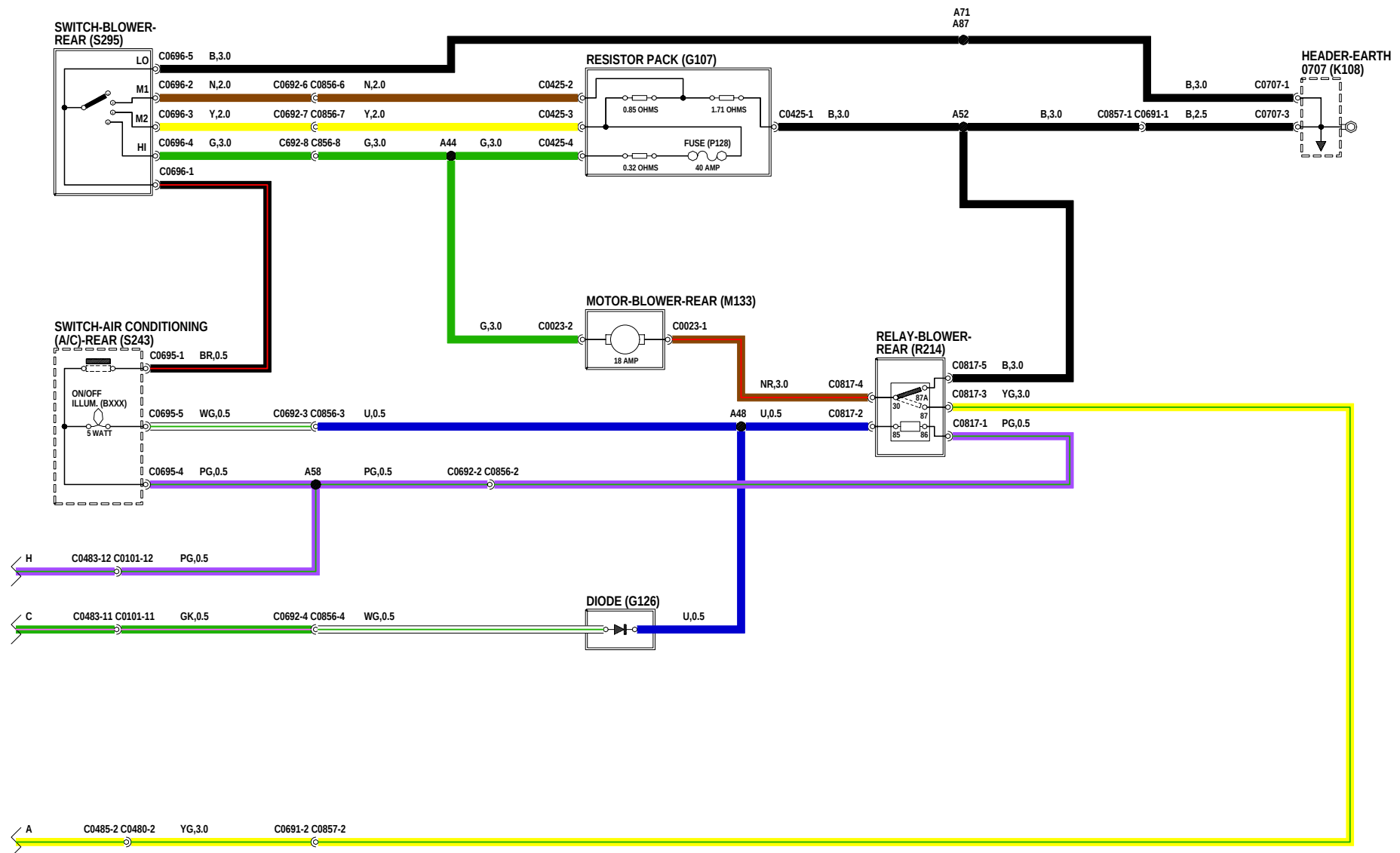
AIR CONDITIONING



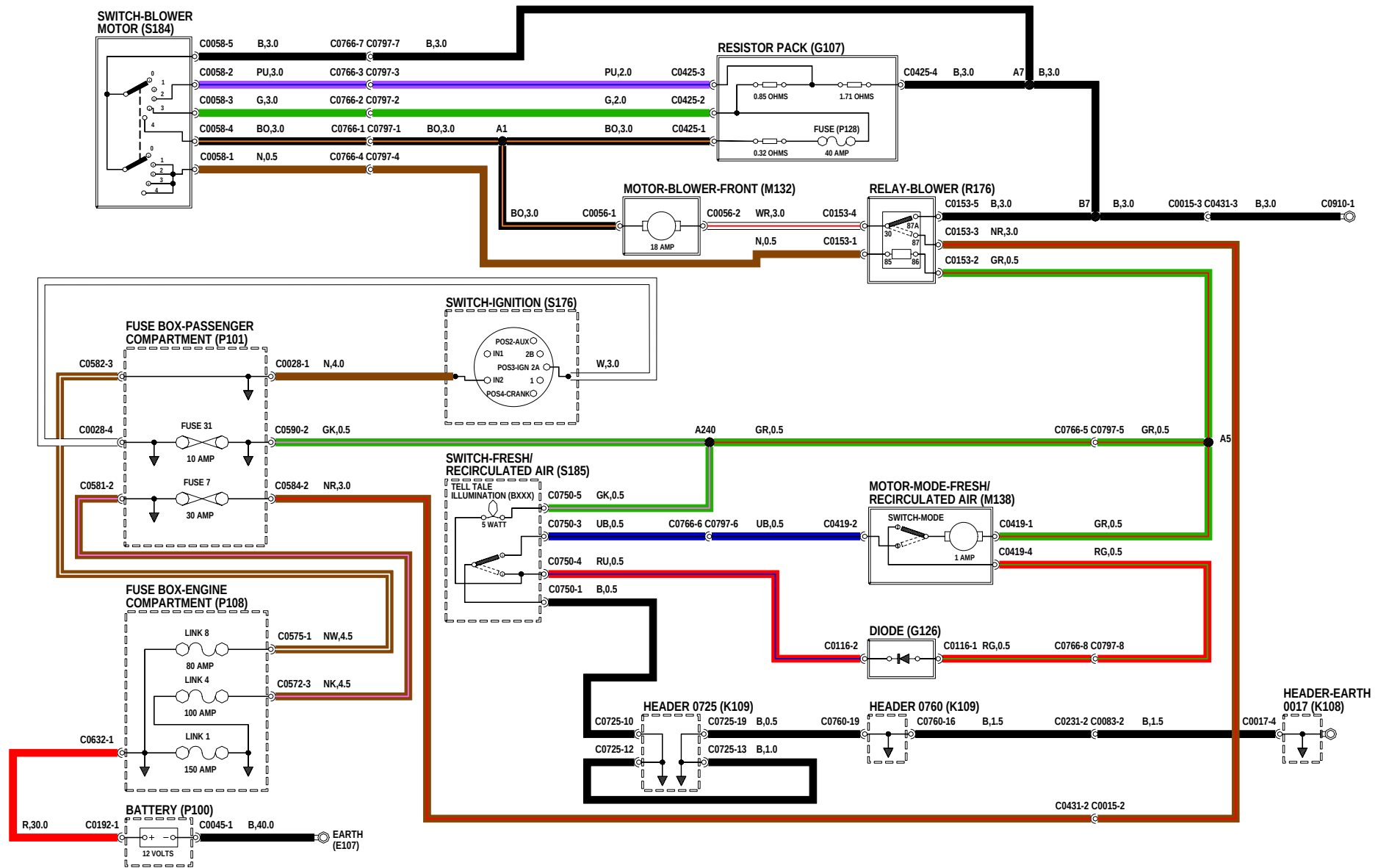
AIR CONDITIONING



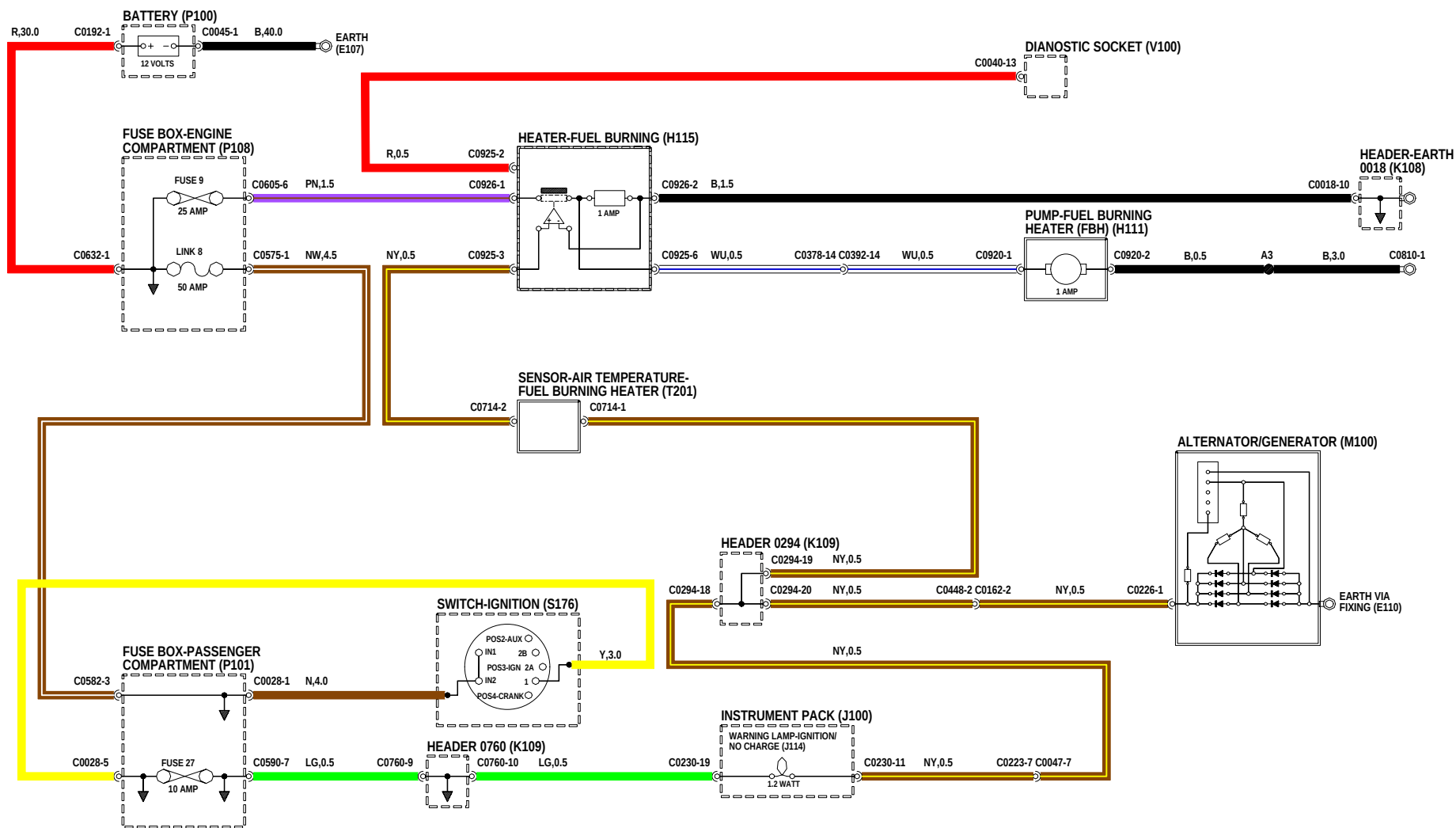
AIR CONDITIONING



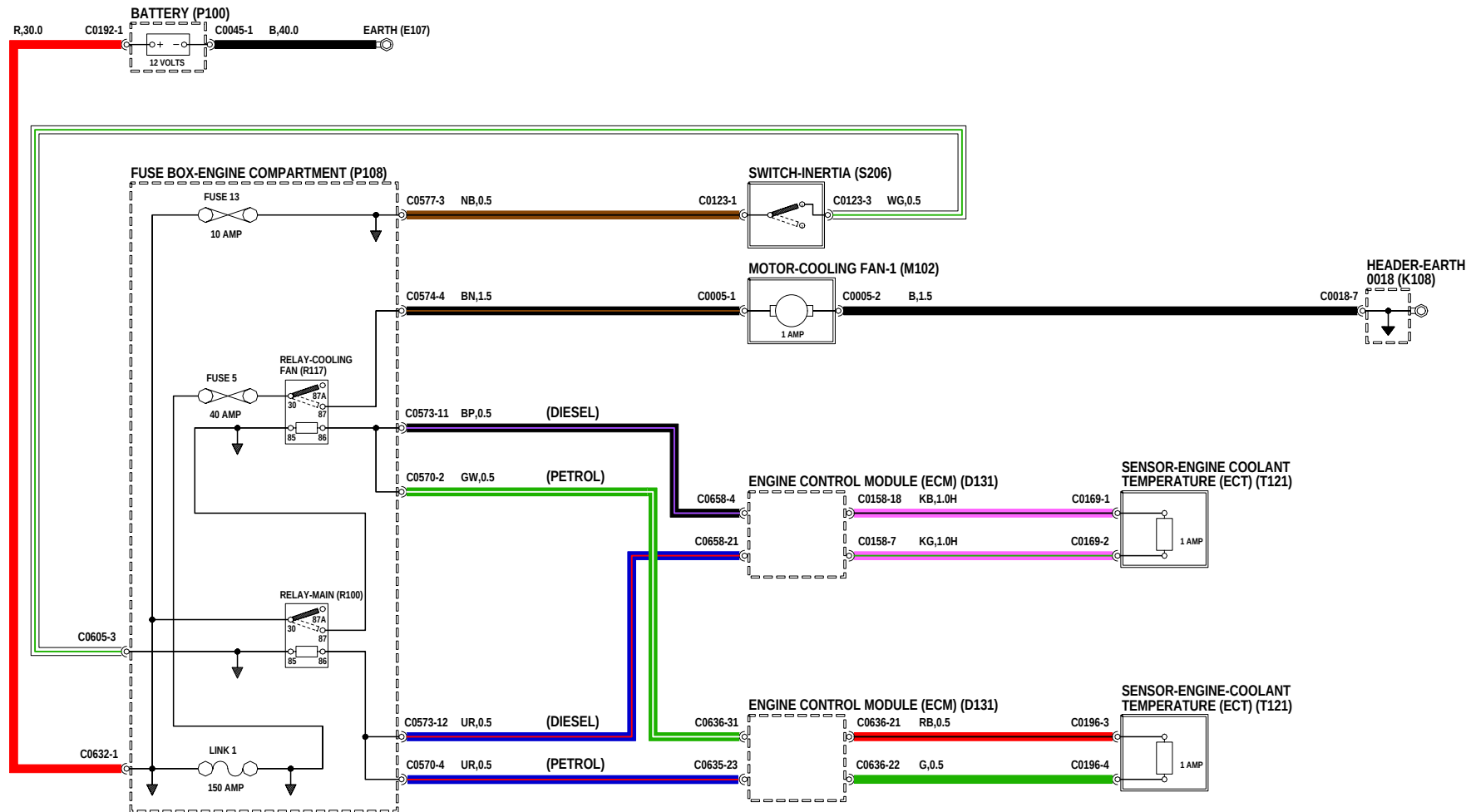
HEATER



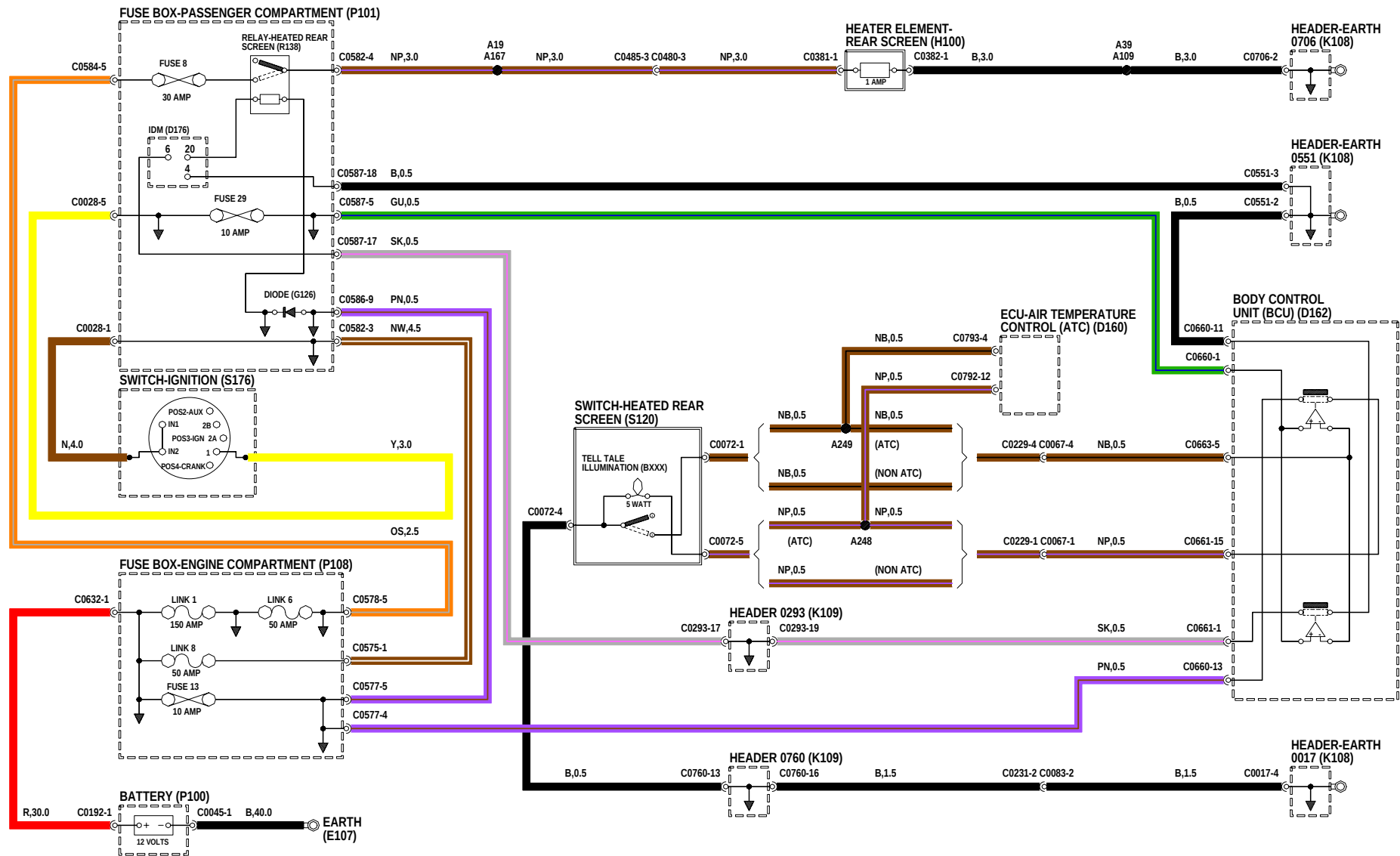
FUEL BURNING HEATER



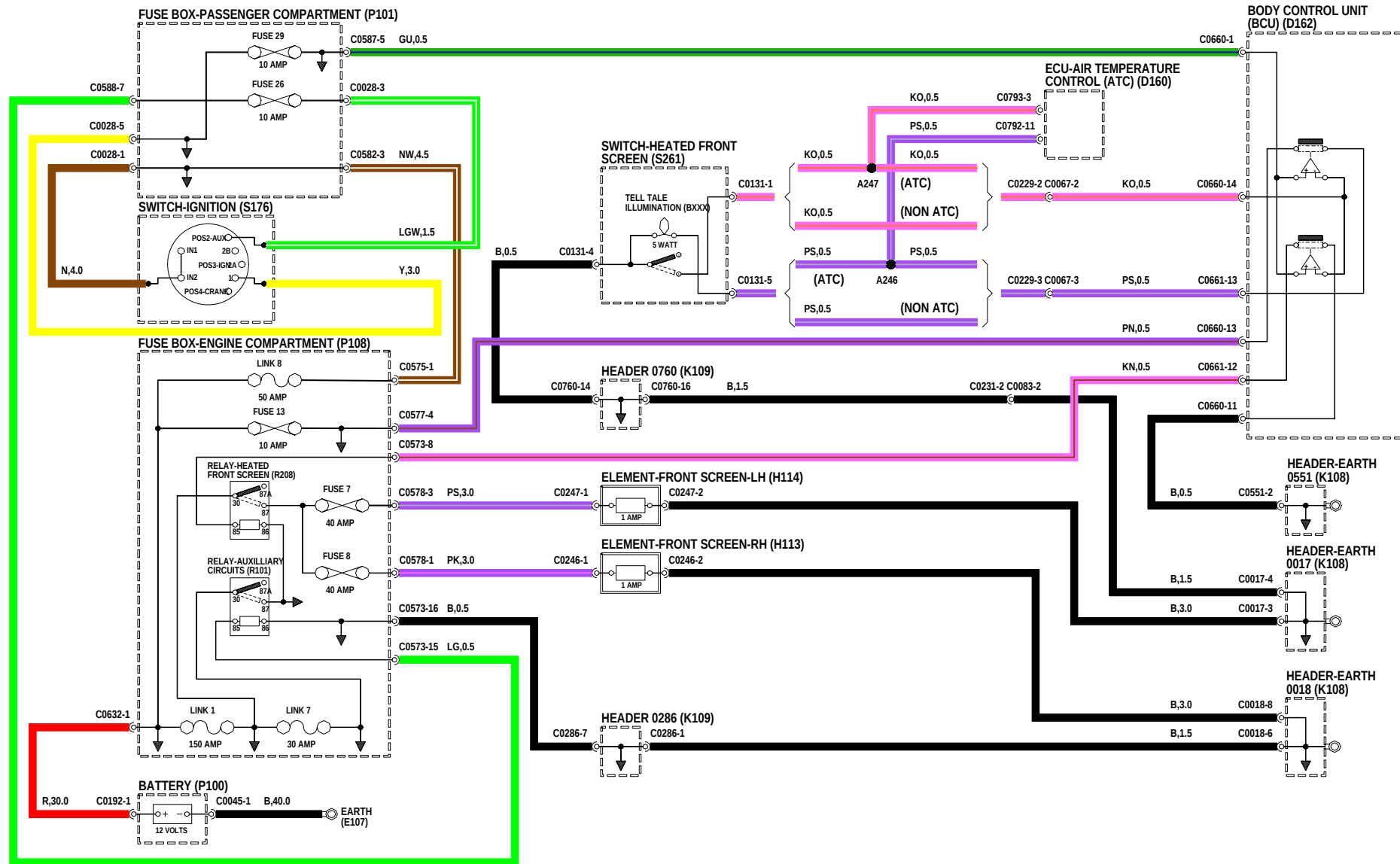
COOLING FANS



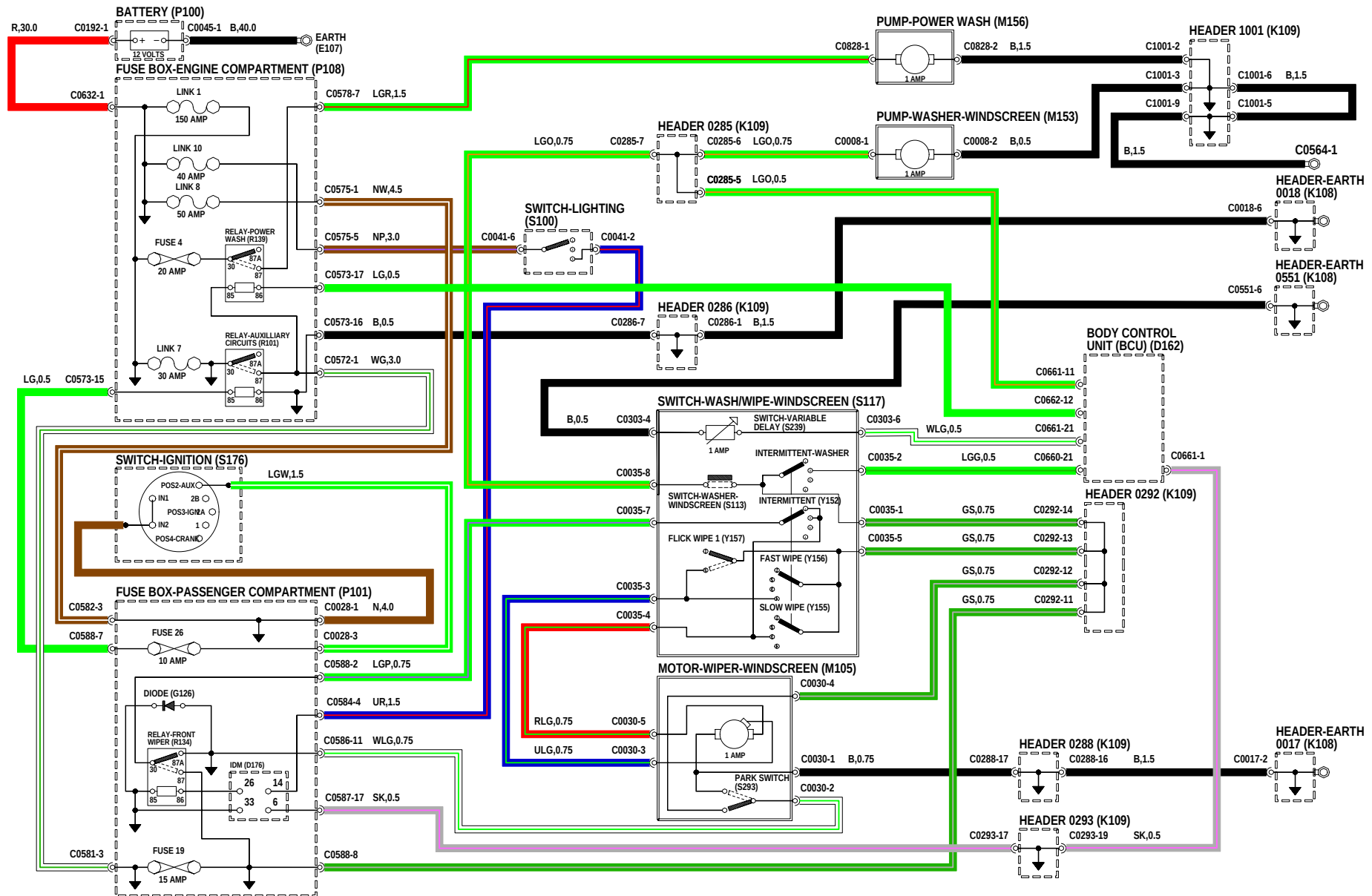
HEATED REAR SCREEN



HEATED FRONT SCREEN

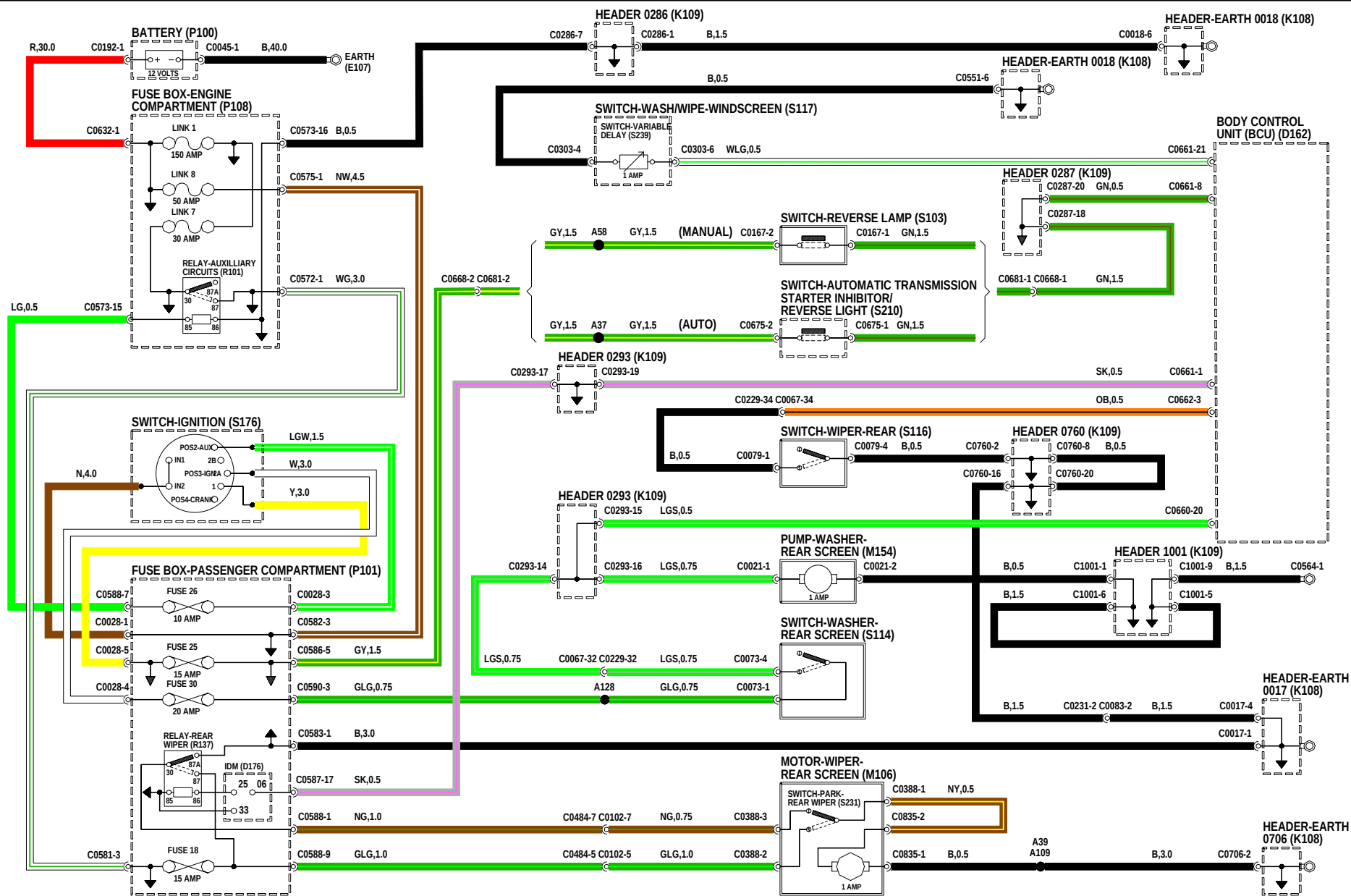


WIPERS AND WASHERS FRONT

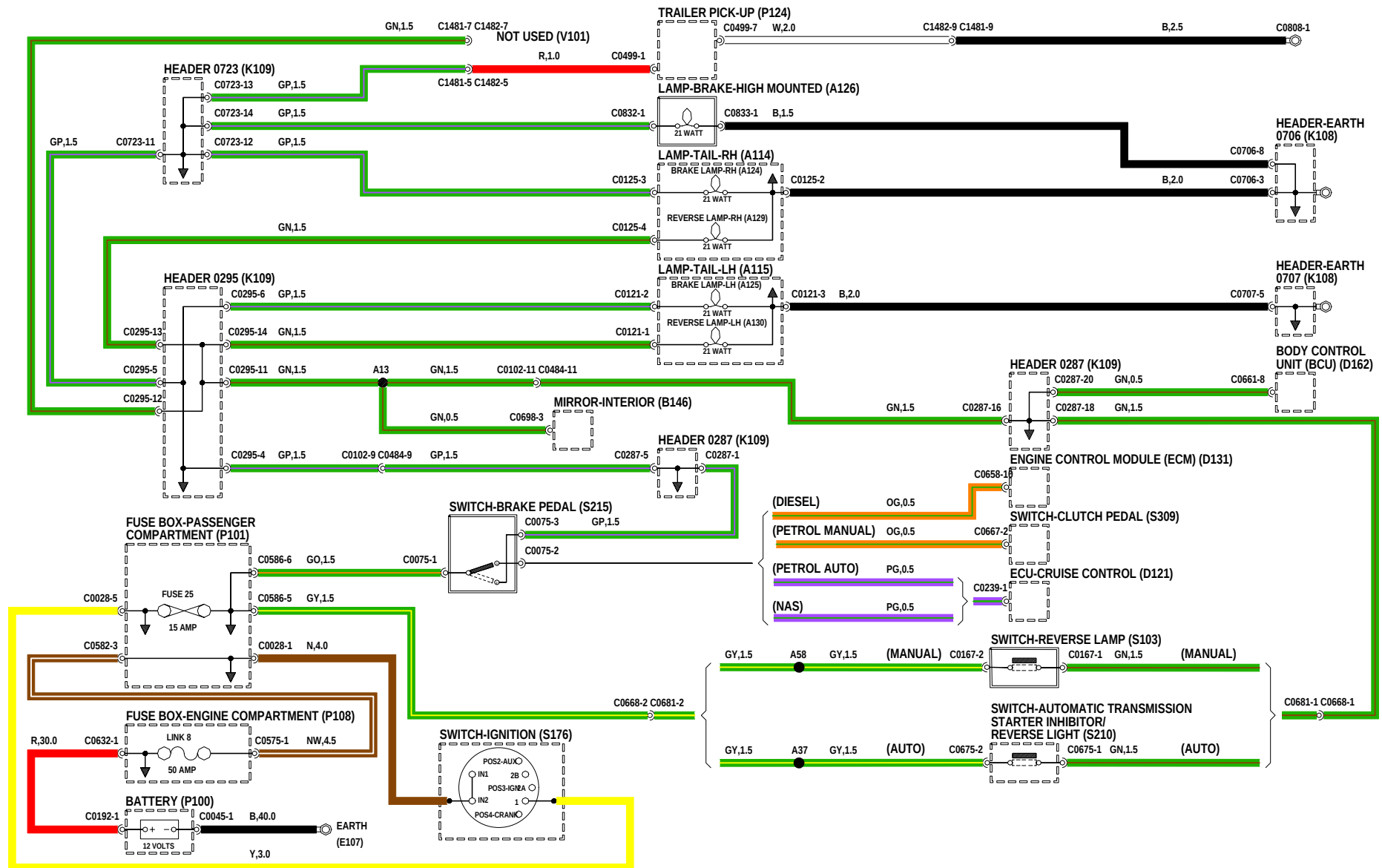


WIPERS AND WASHERS

REAR

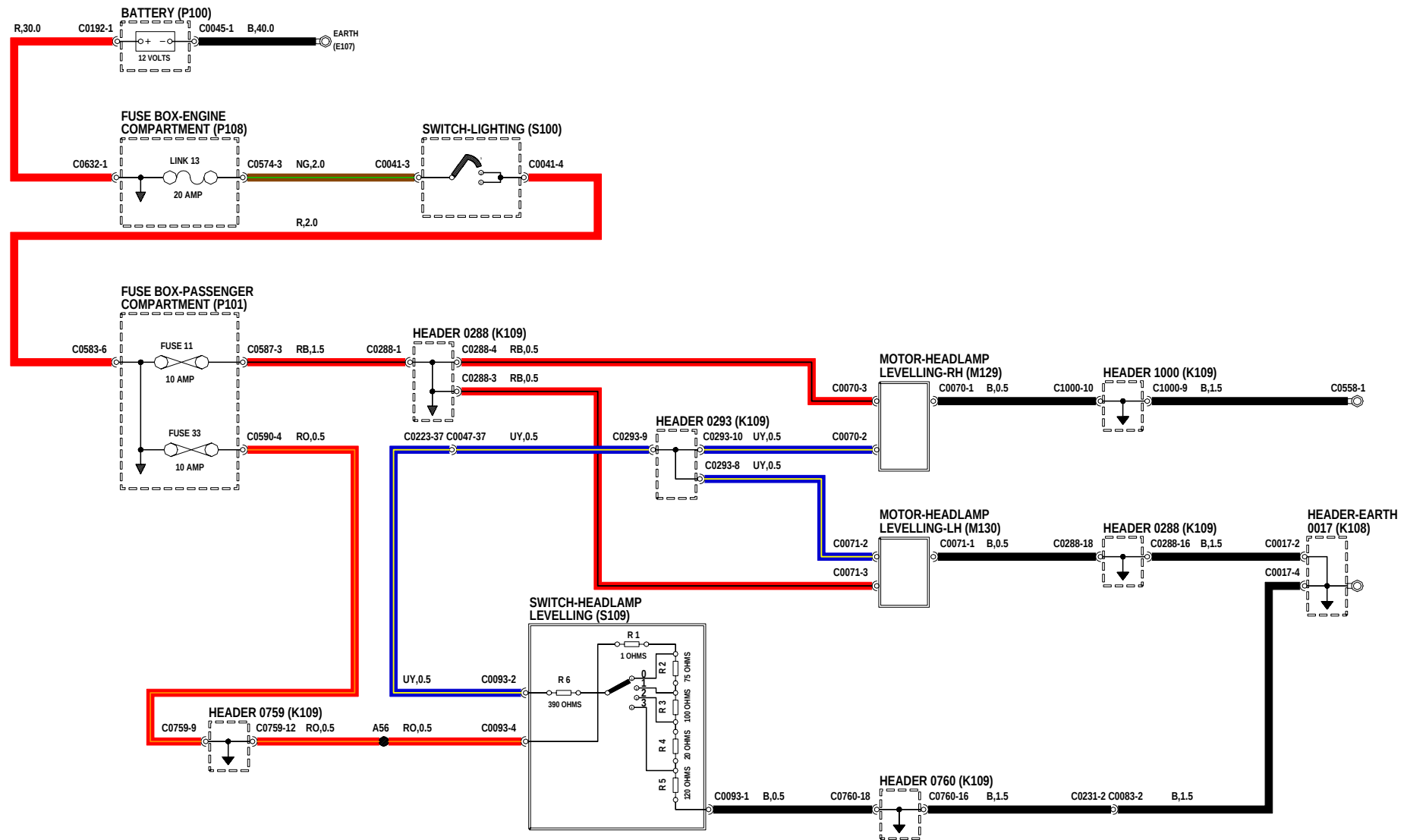


EXTERIOR LAMPS BRAKE AND REVERSE LAMPS

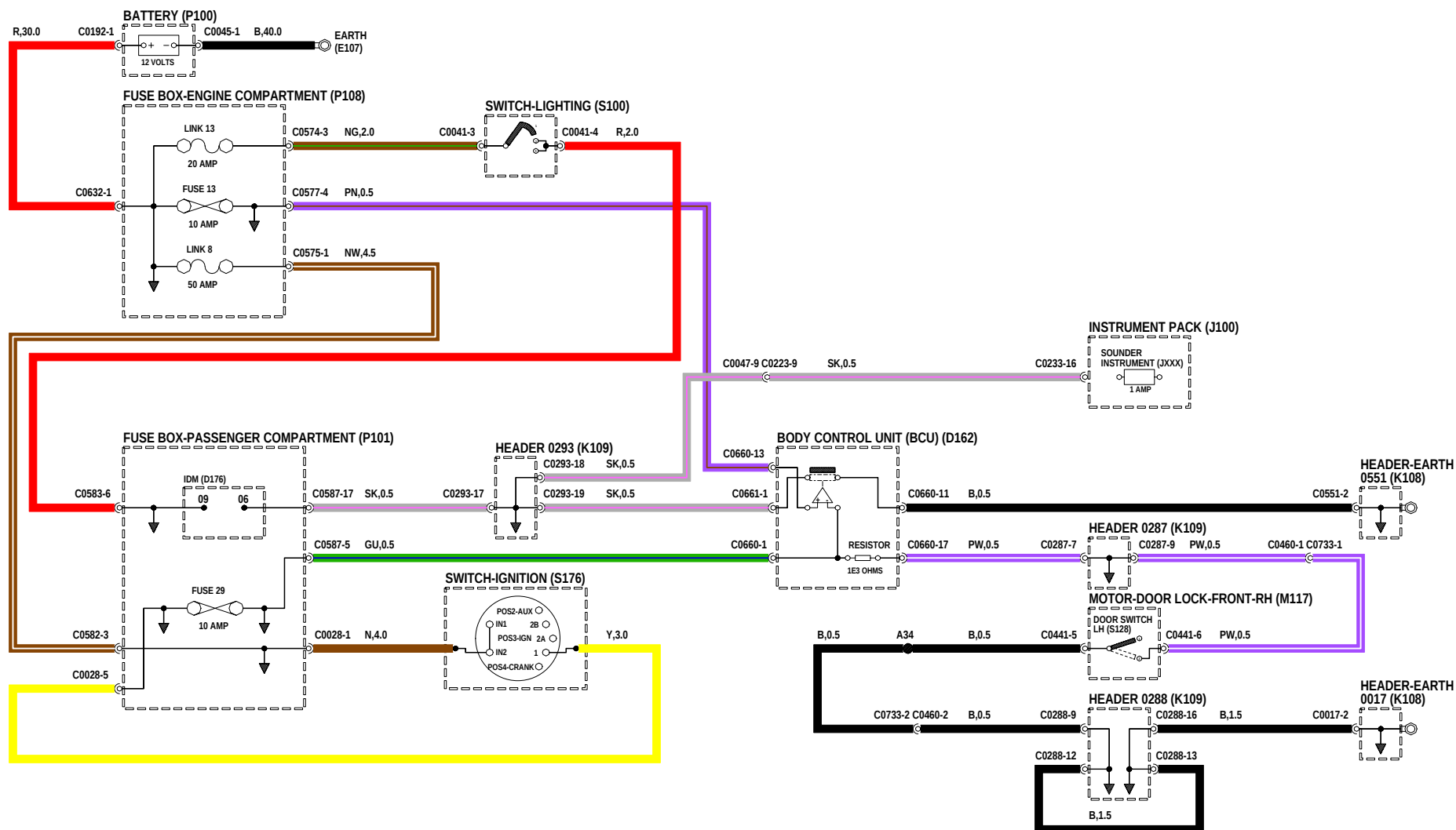


EXTERIOR LAMPS

HEADLAMP LEVELLING

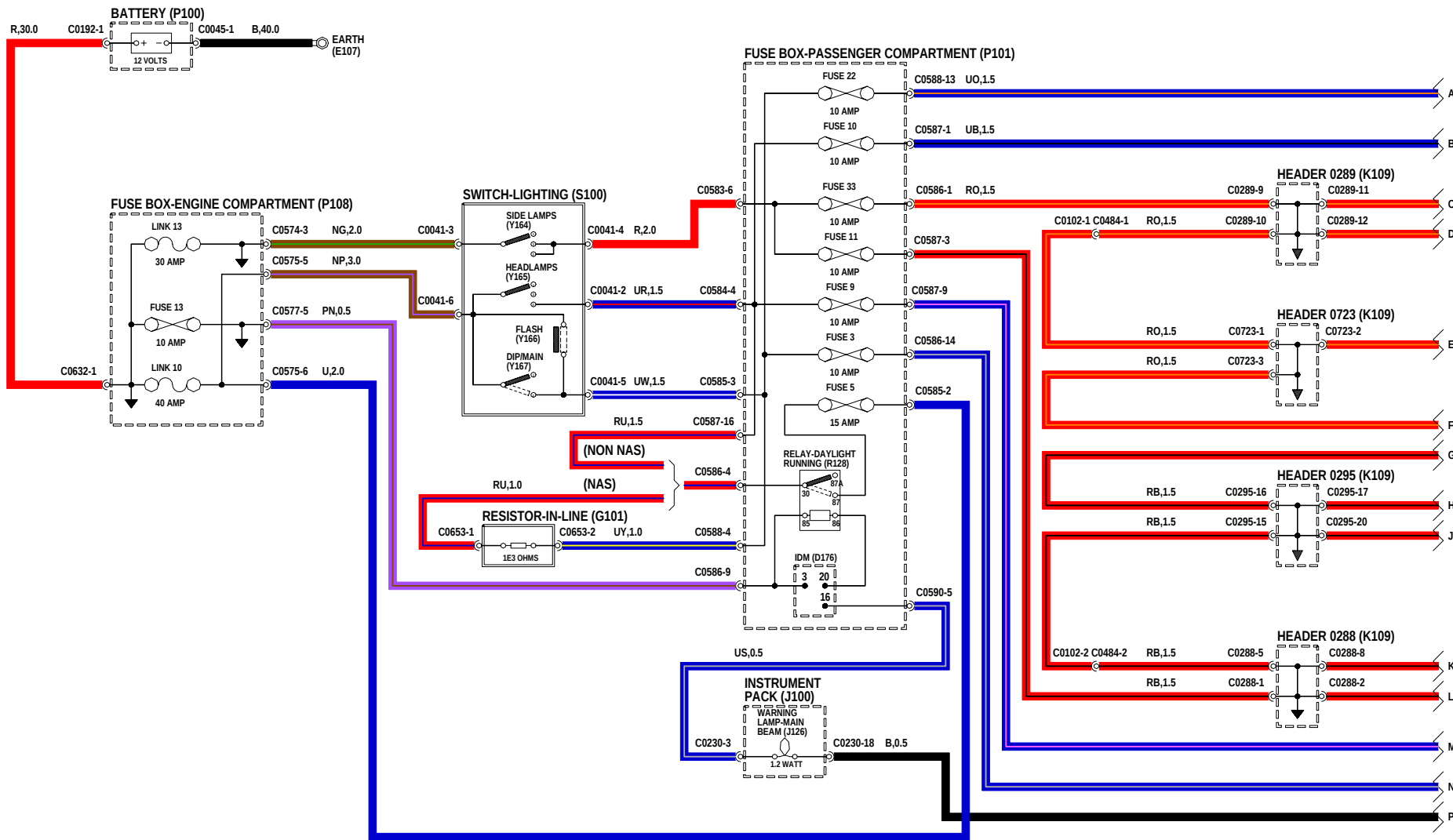


EXTERIOR LAMPS LIGHTS ON ALARM



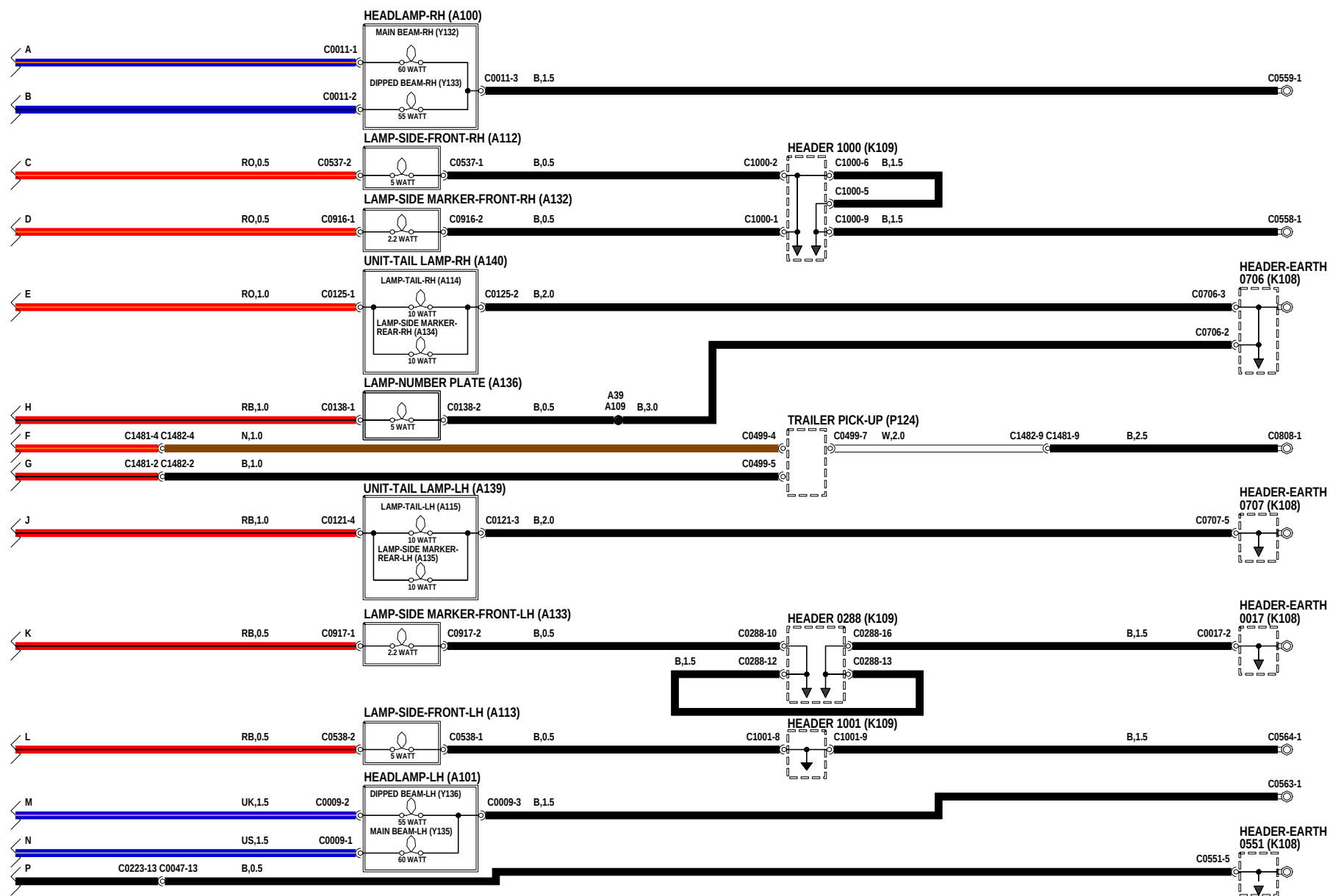
EXTERIOR LAMPS

HEAD, SIDE AND TAIL LAMPS

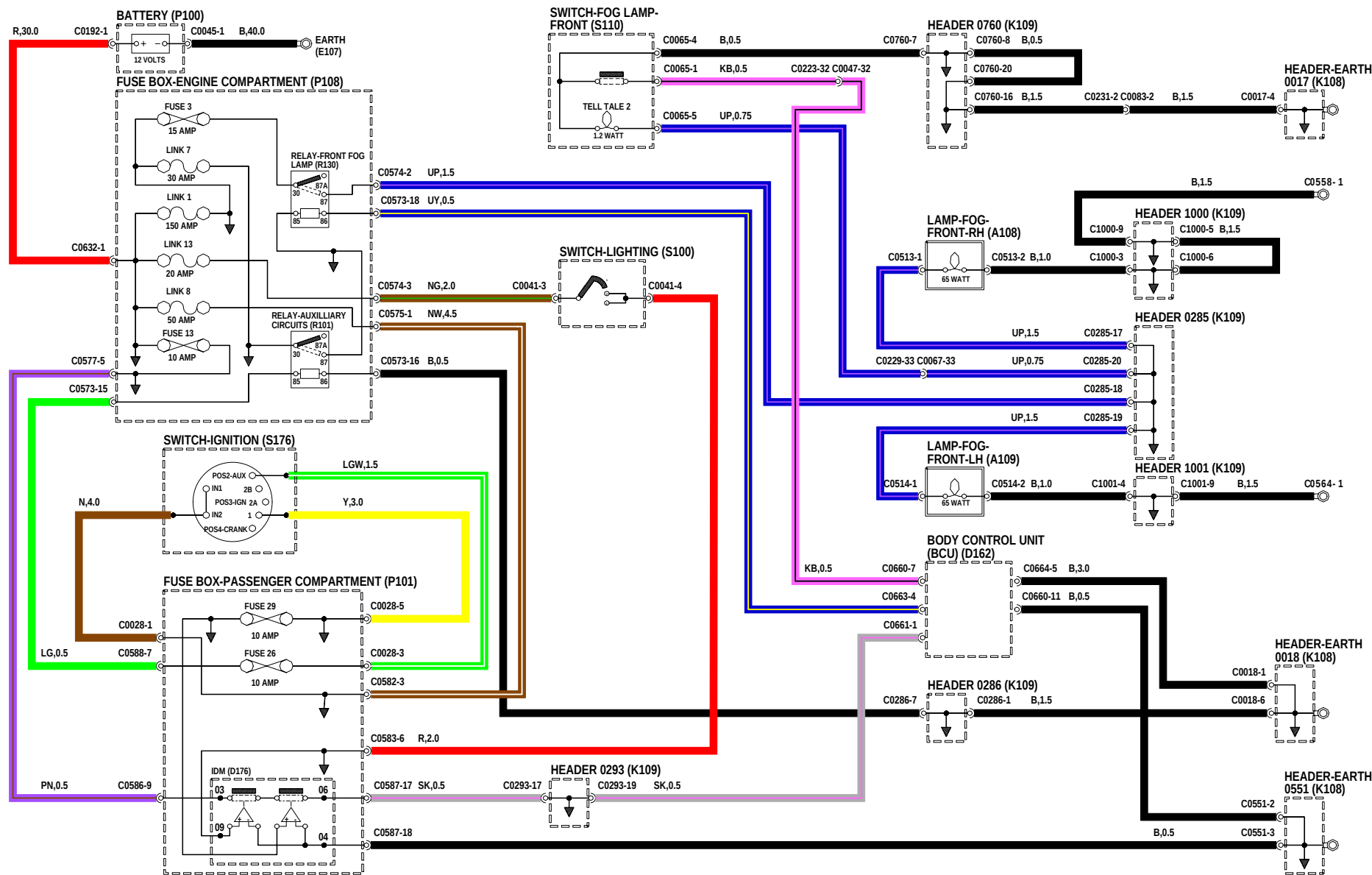


EXTERIOR LAMPS

HEAD, SIDE AND TAIL LAMPS

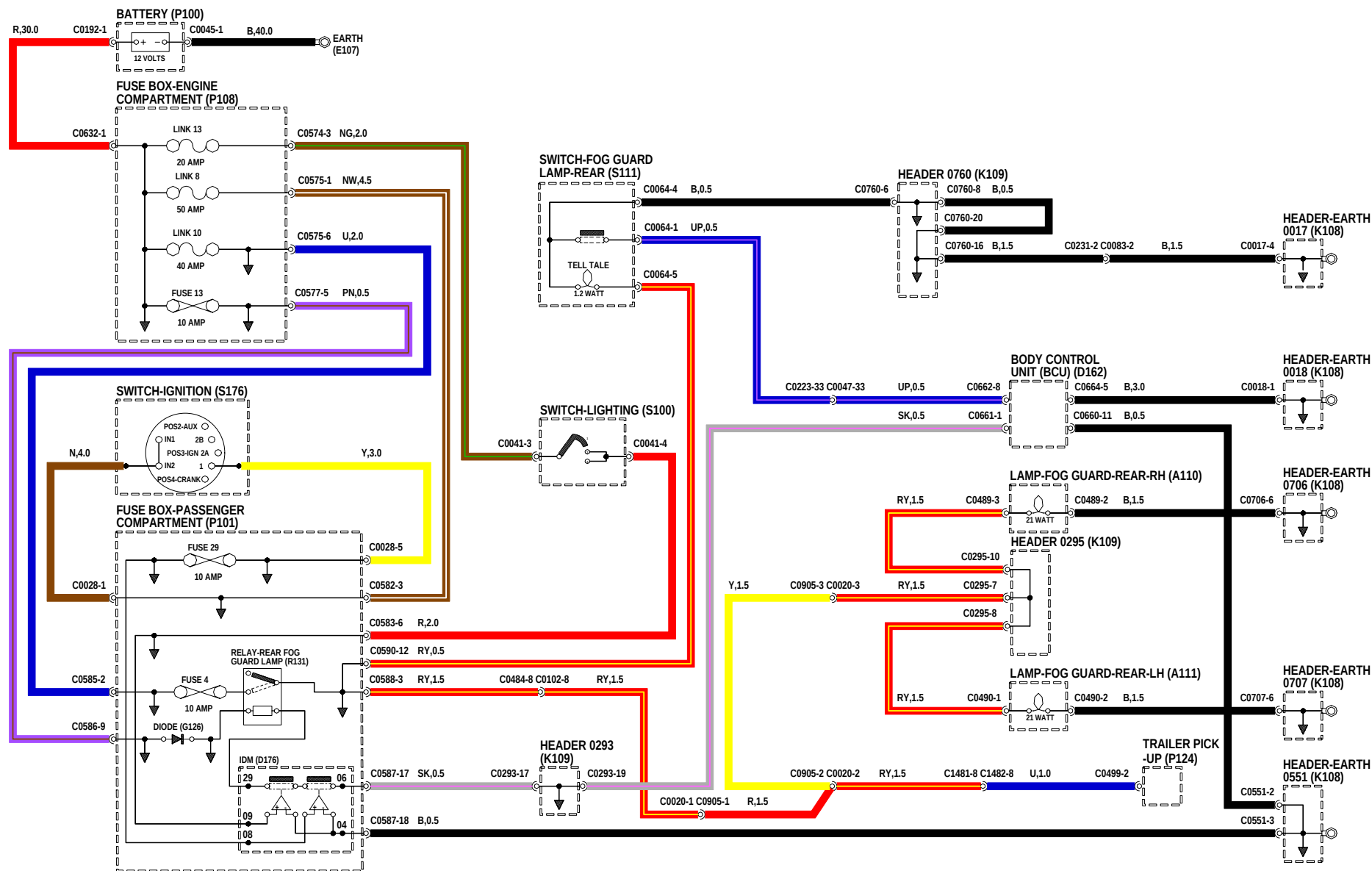


EXTERIOR LAMPS FRONT FOG LAMPS

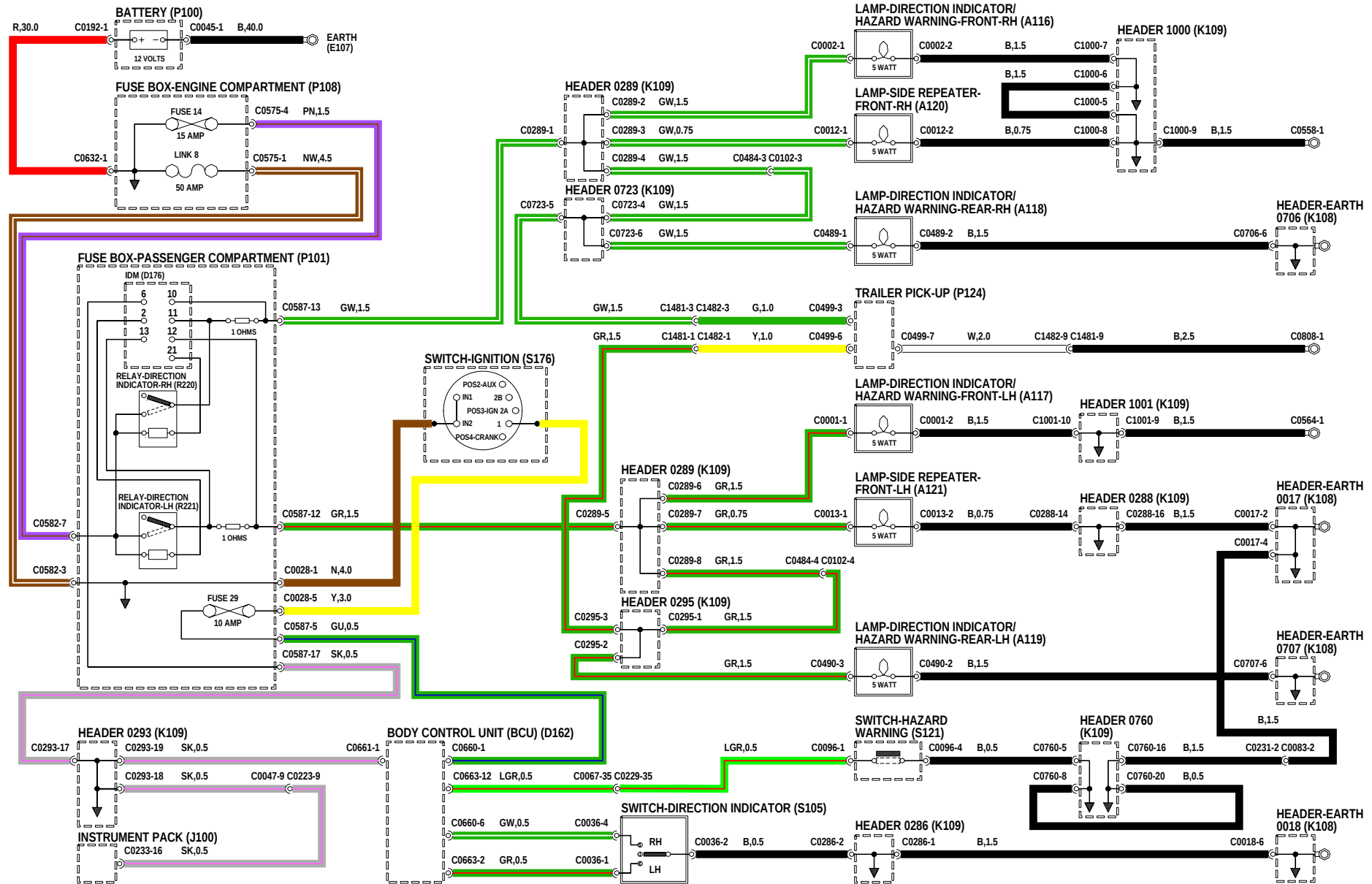


EXTERIOR LAMPS

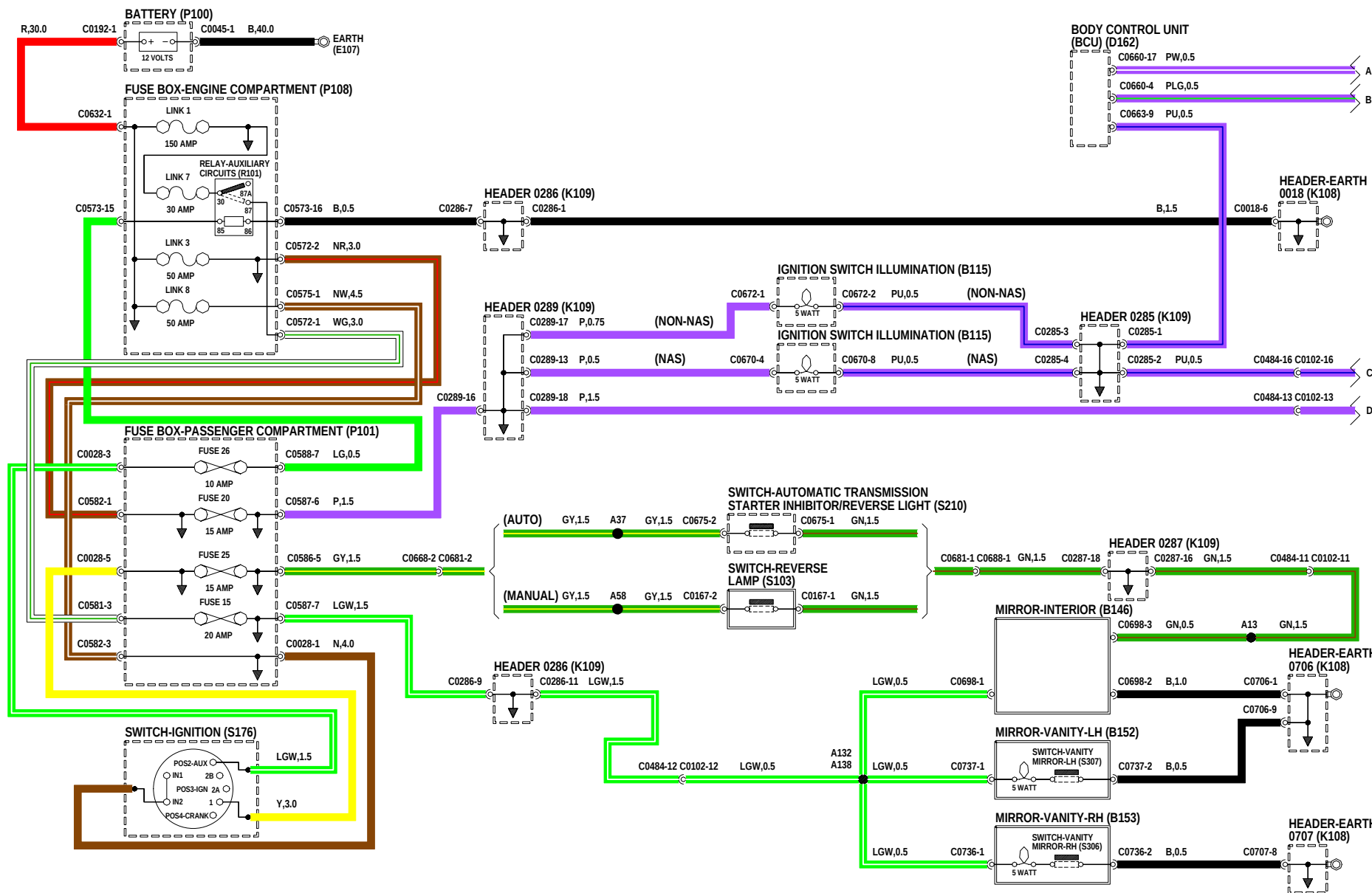
REAR FOG LAMPS



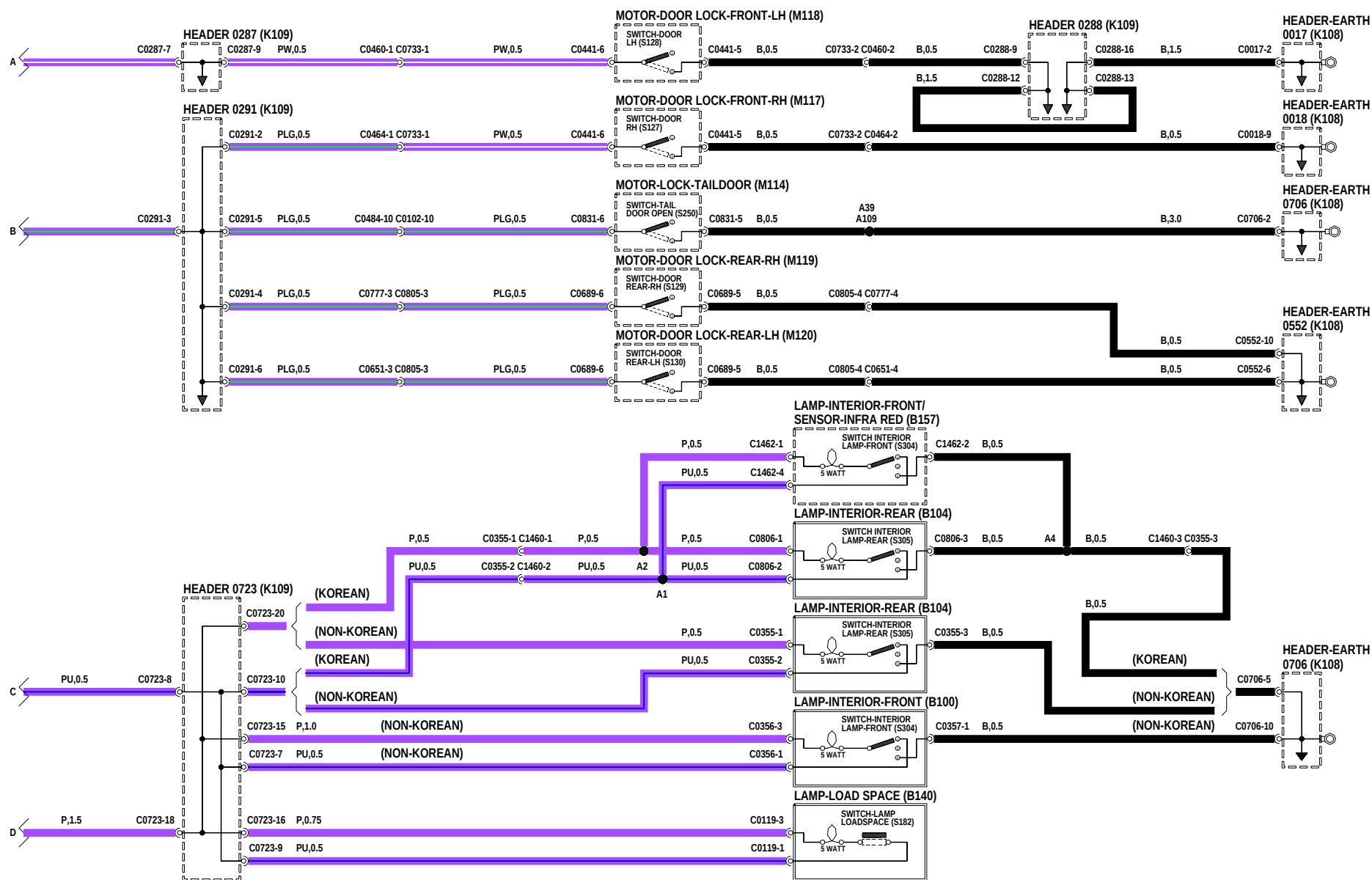
INDICATORS AND HAZARDS



INTERIOR LAMPS



INTERIOR LAMPS

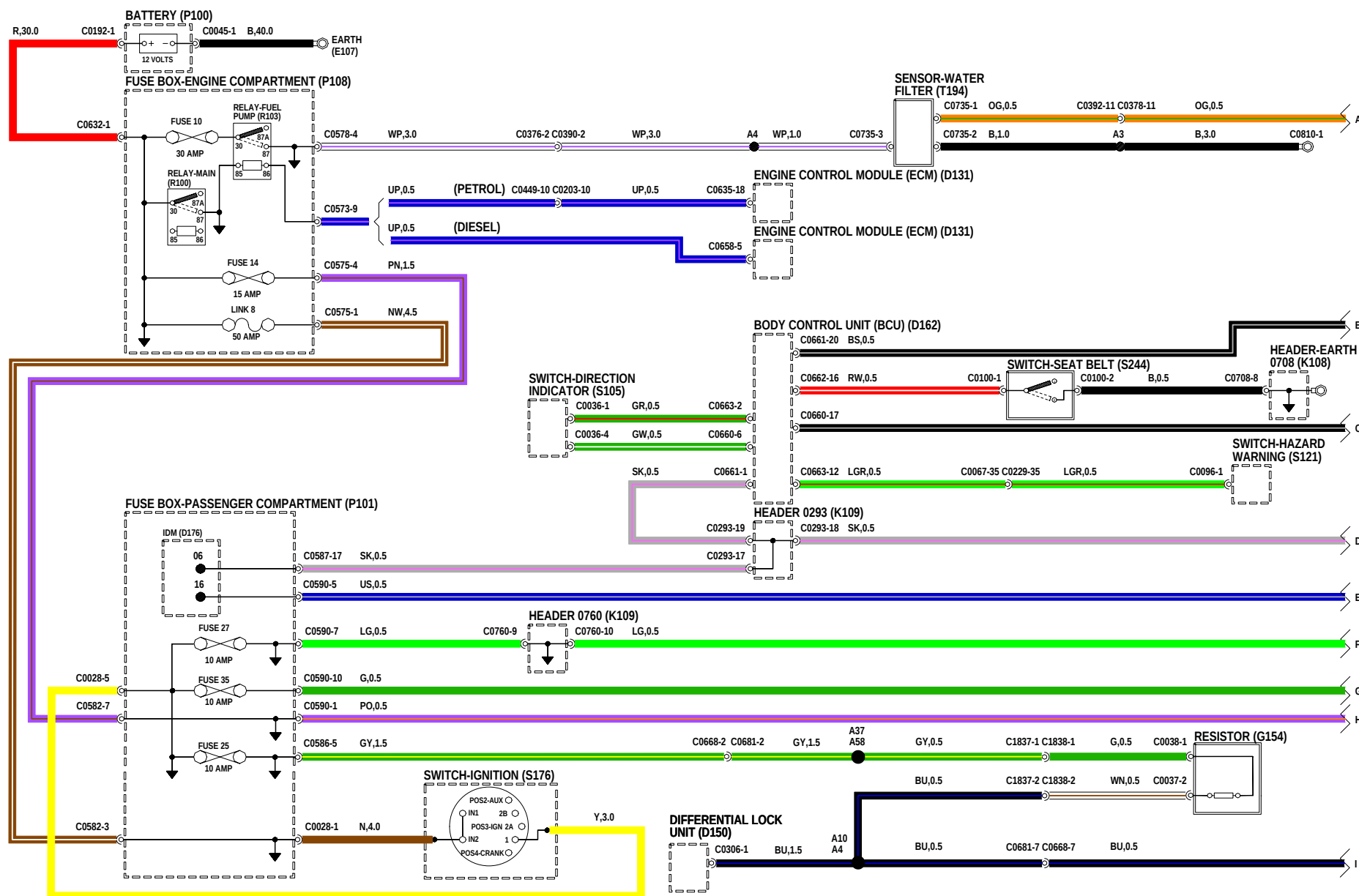


DISCOVERY SERIES II

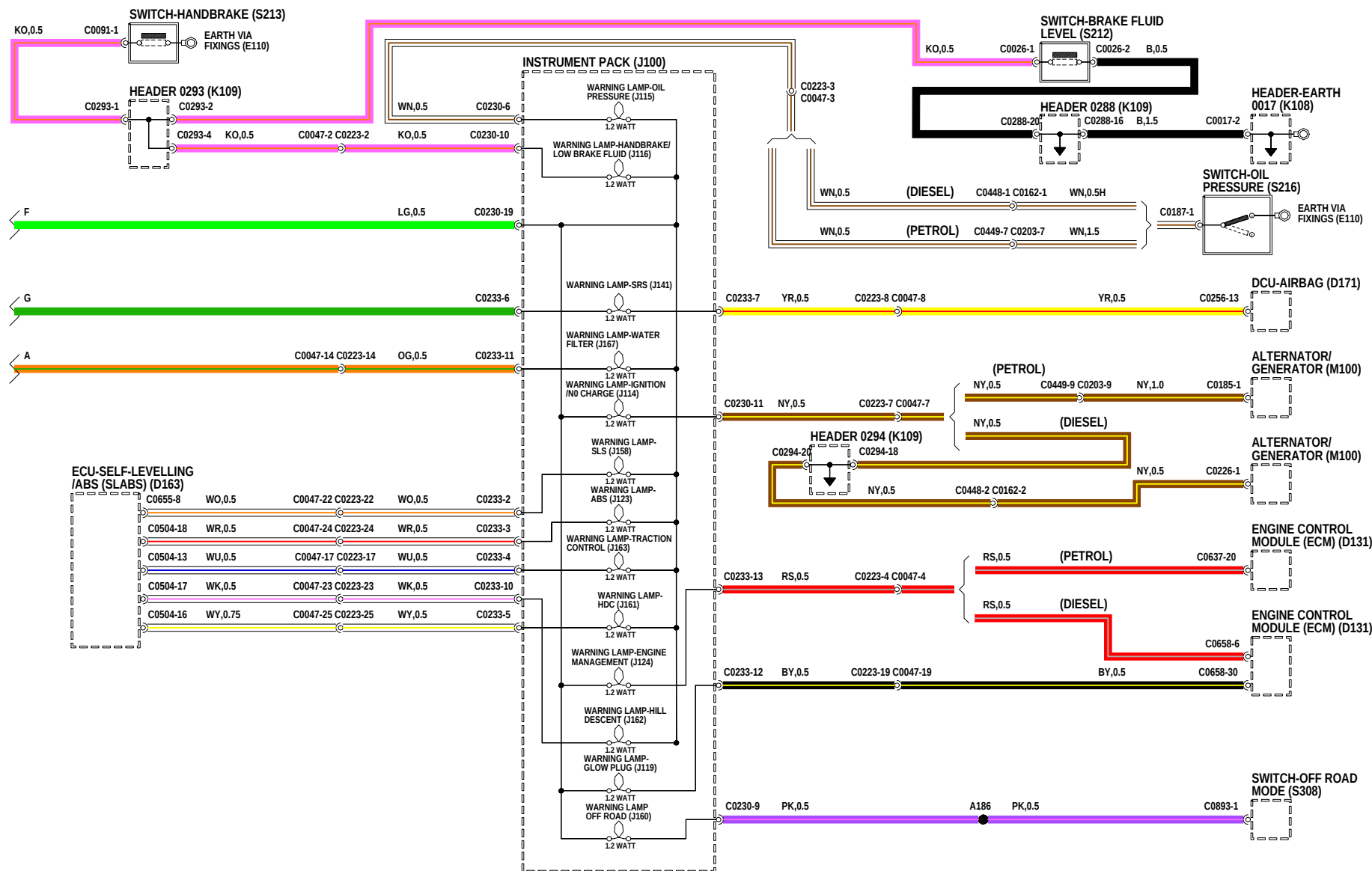




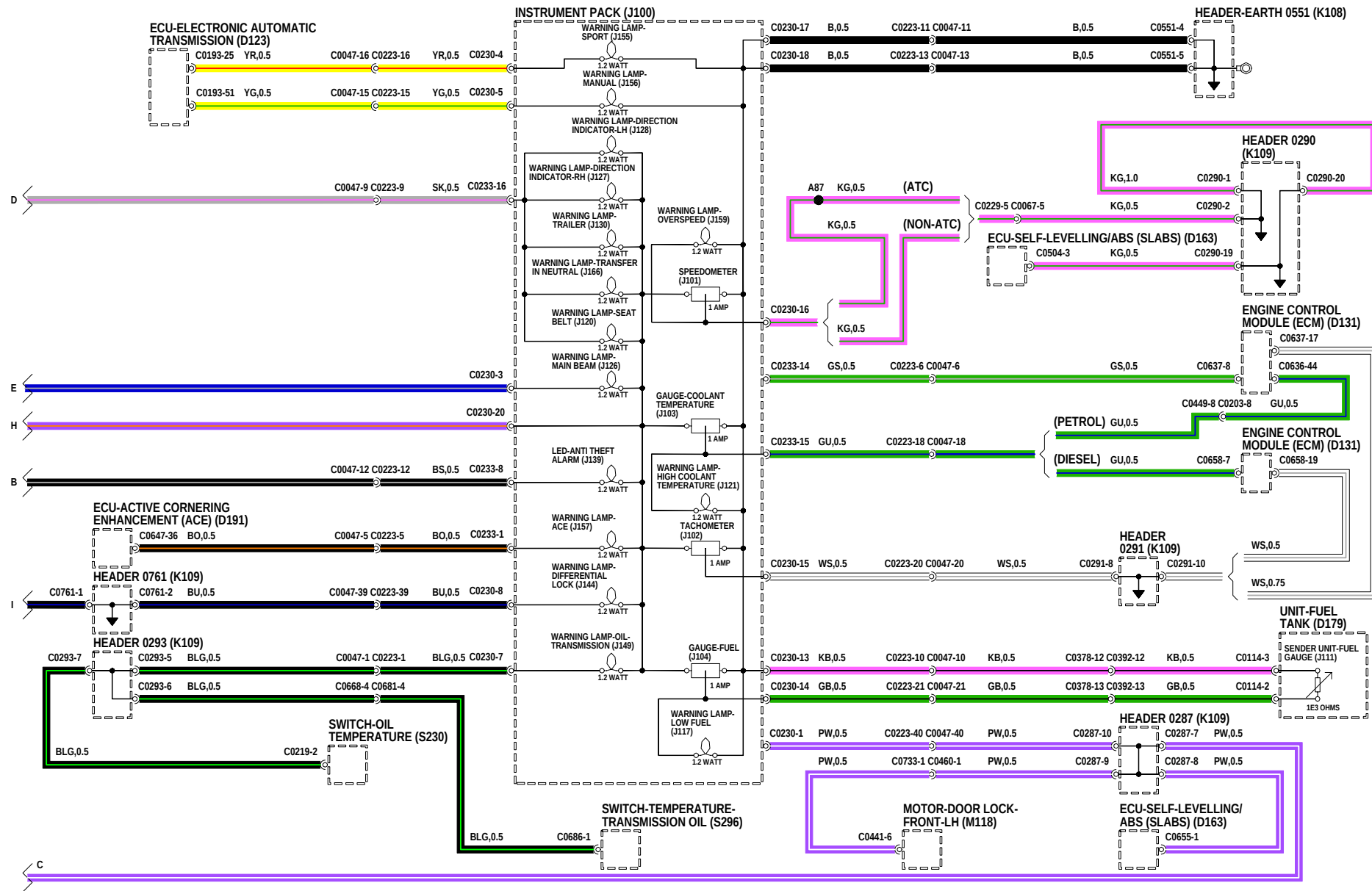
INSTRUMENTS



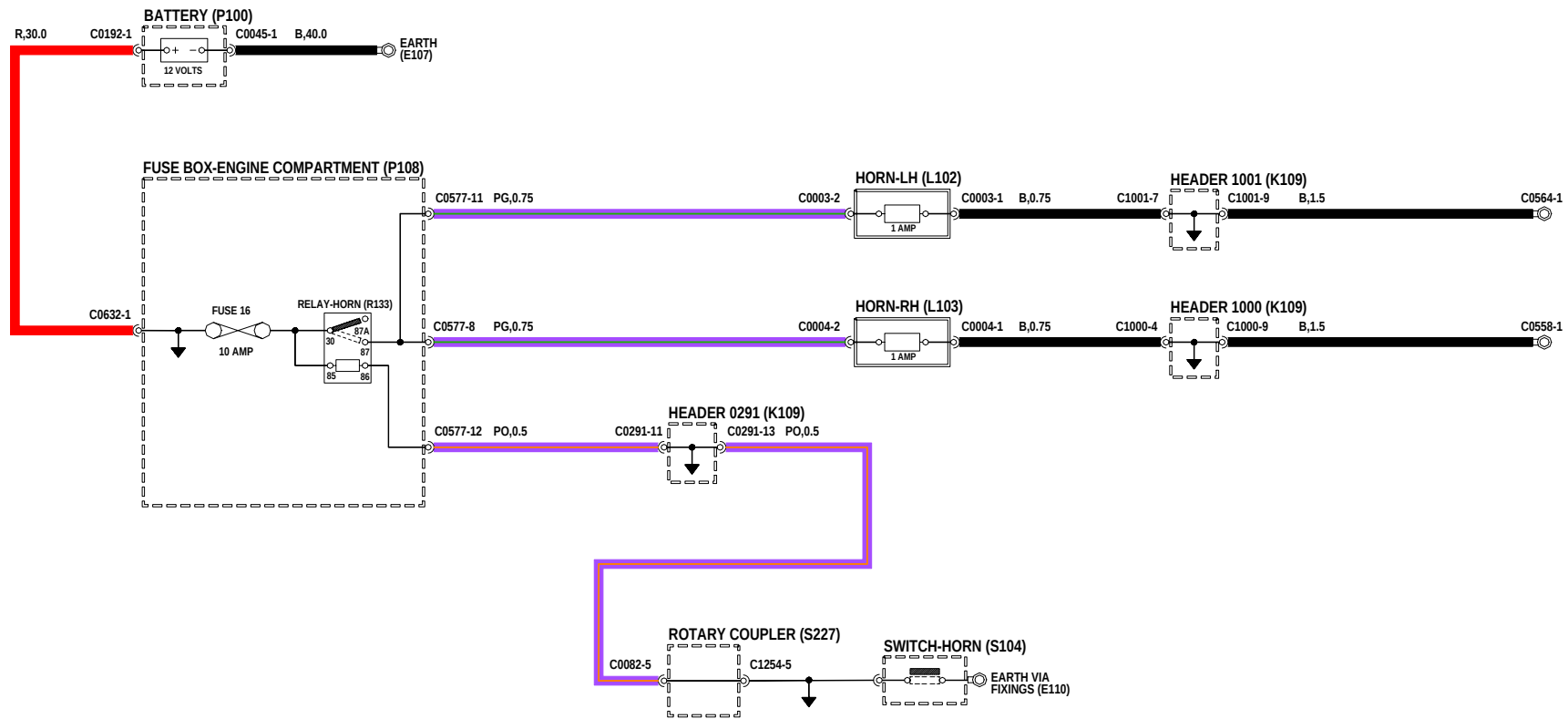
INSTRUMENTS



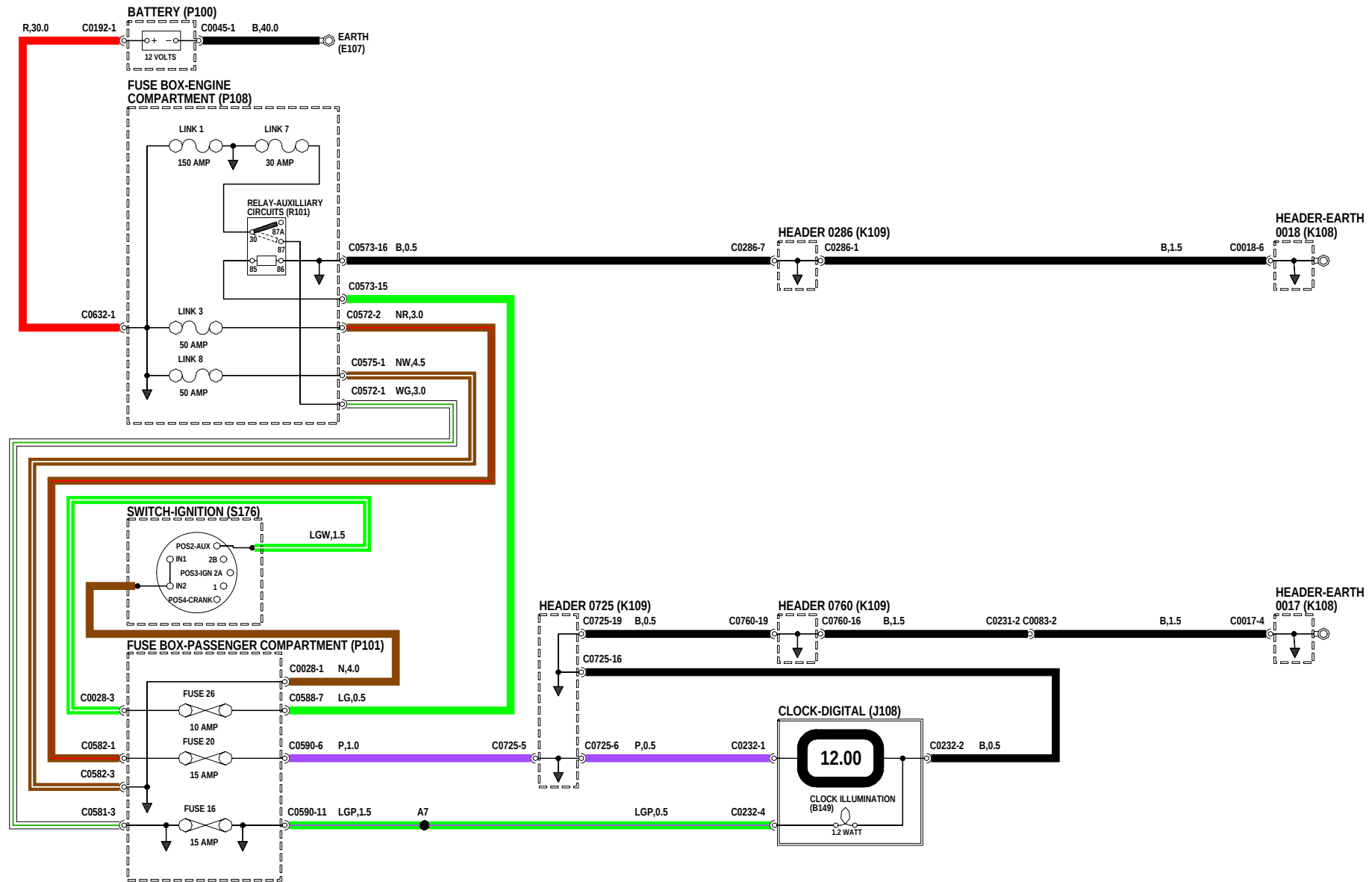
INSTRUMENTS



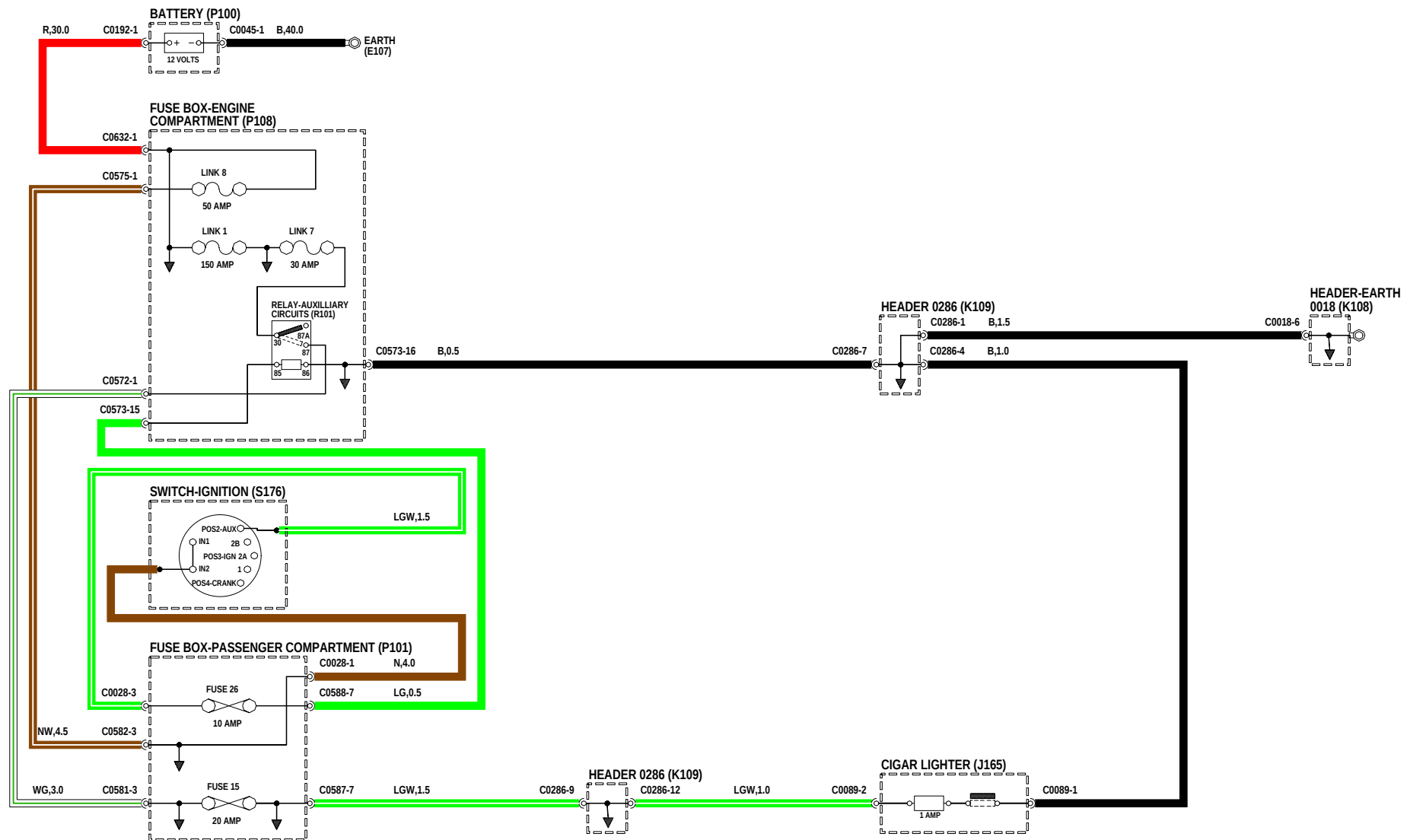
HORNS



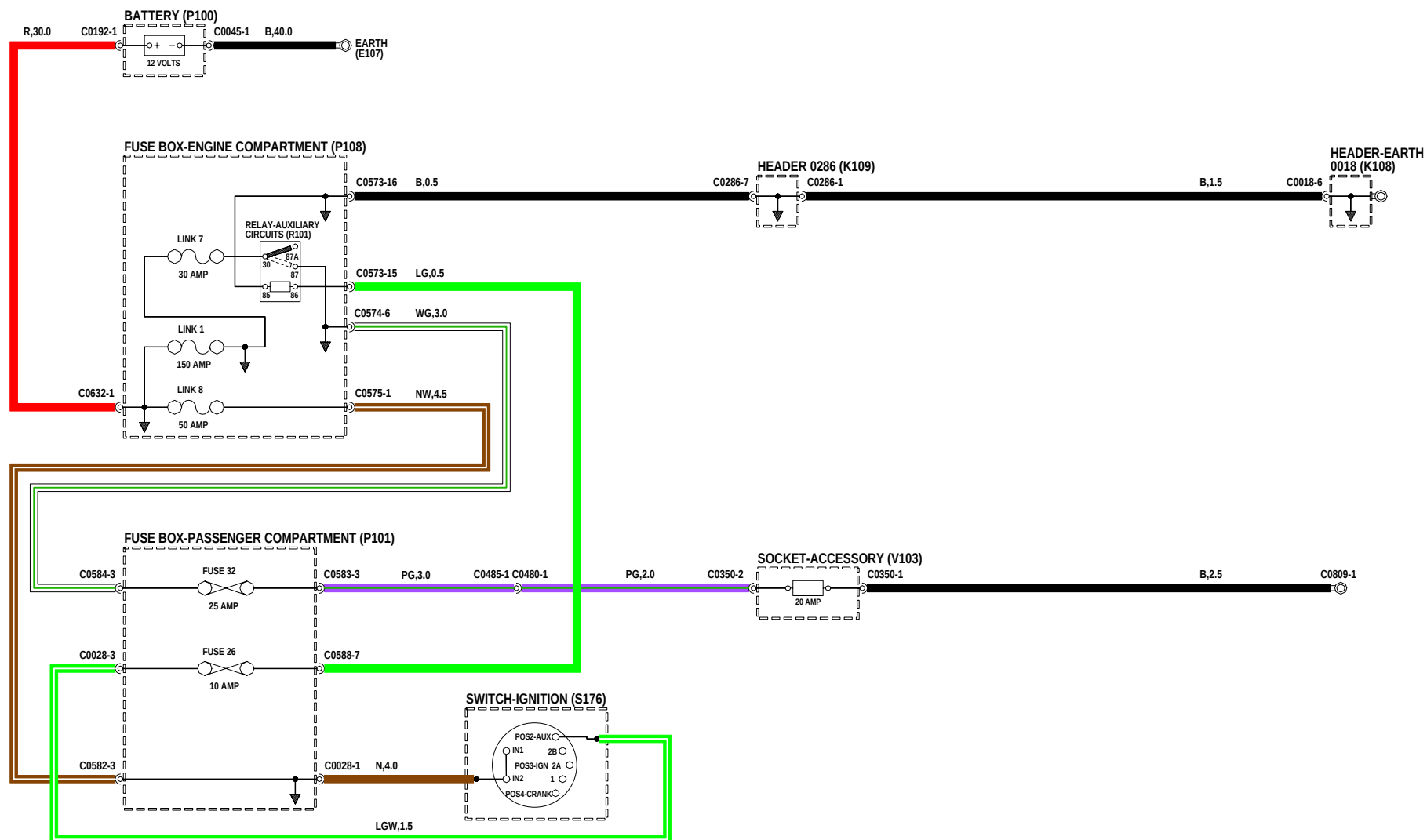
CLOCK



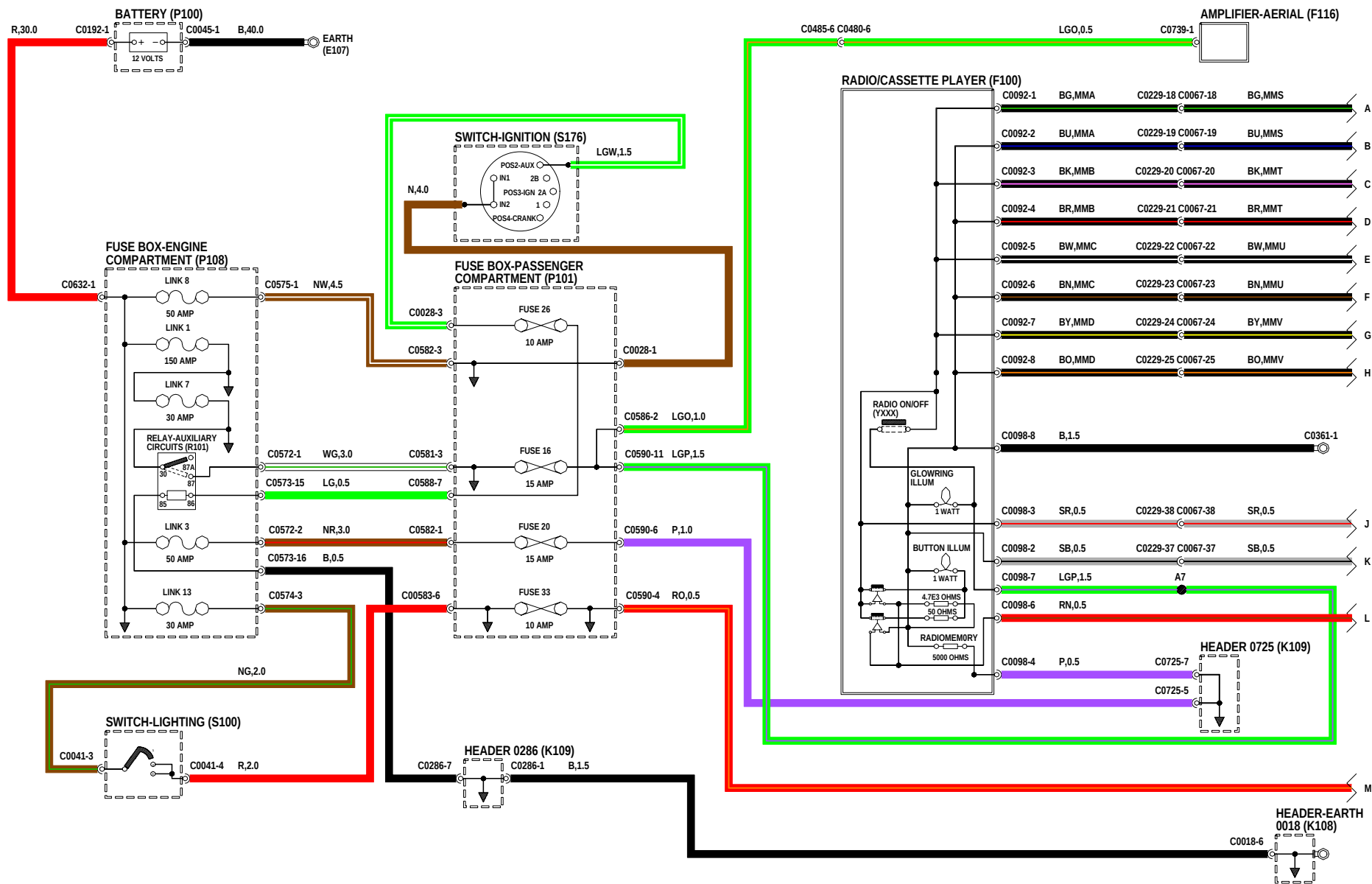
CIGAR LIGHTER



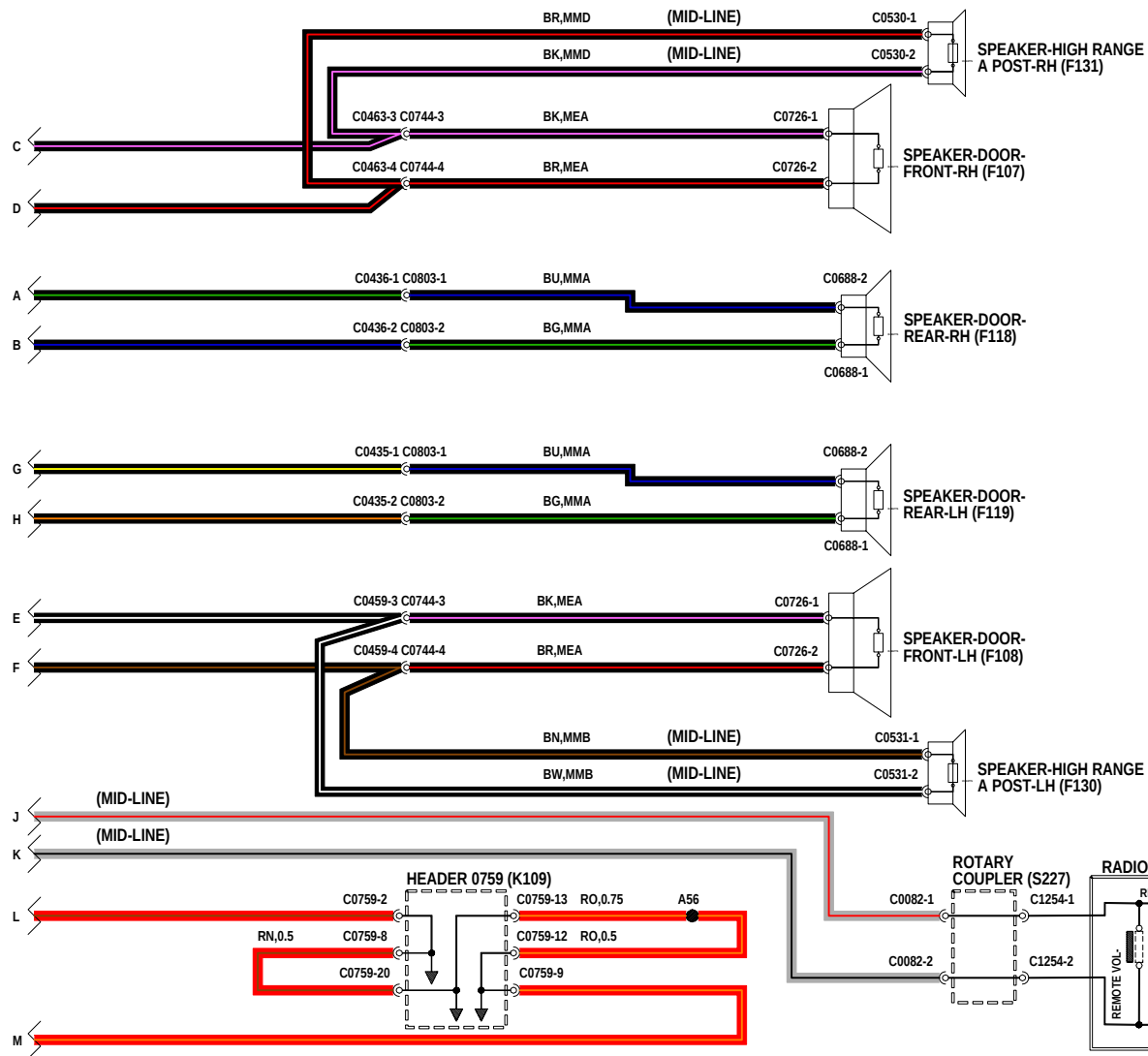
ACCESSORY SOCKET



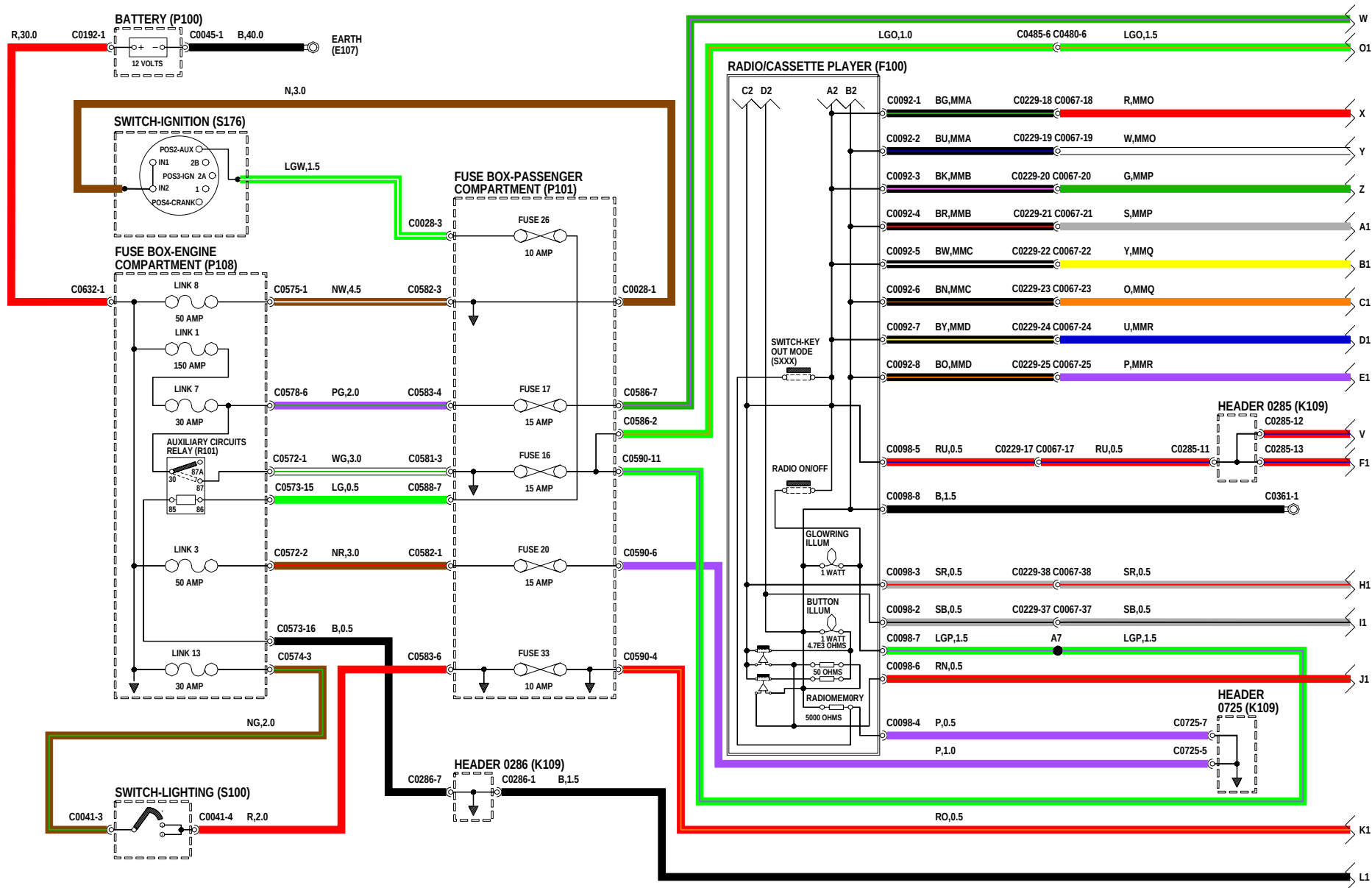
IN-CAR ENTERTAINMENT BASE AND MID LINE



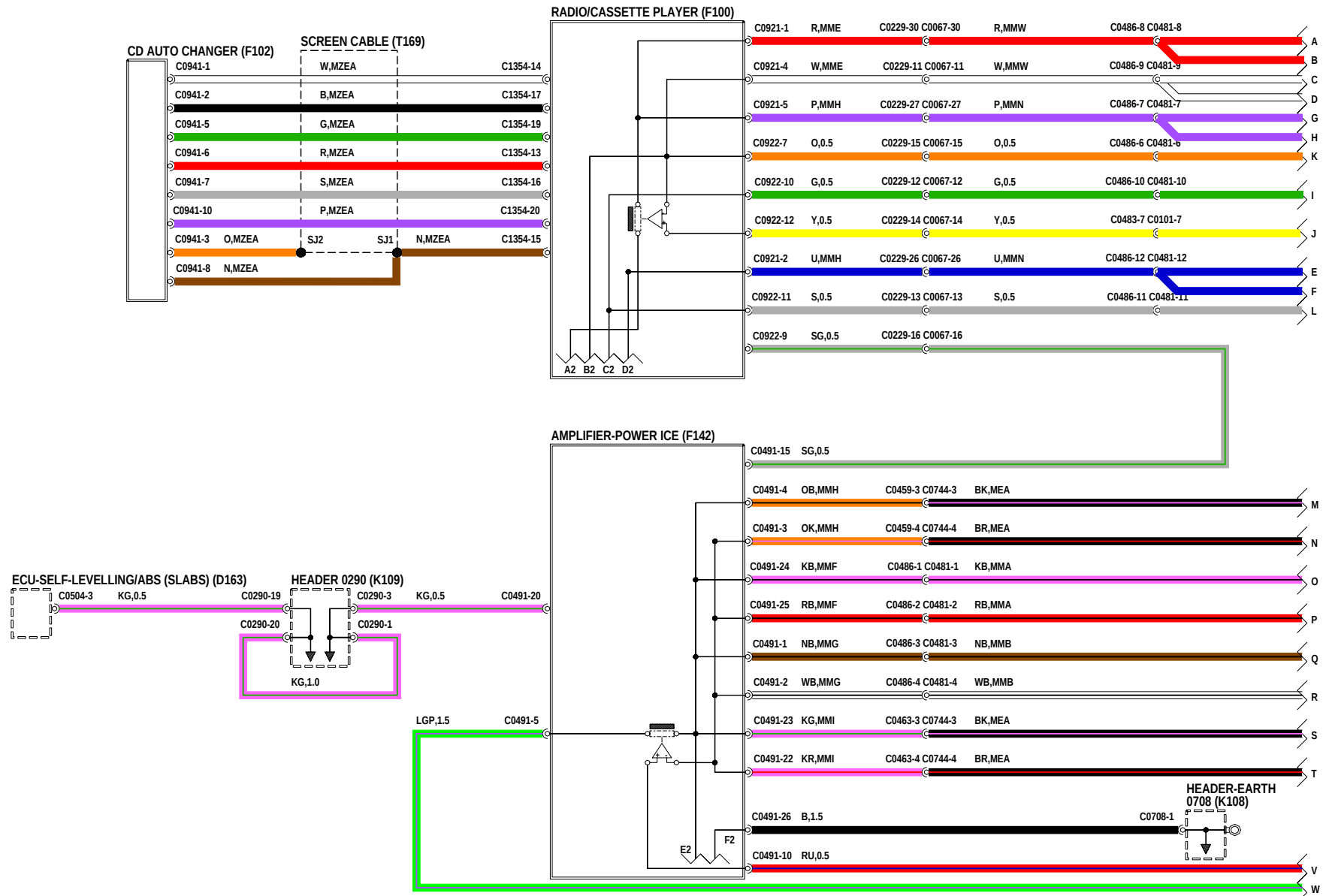
IN-CAR ENTERTAINMENT BASE AND MID LINE



IN-CAR ENTERTAINMENT HIGH LINE

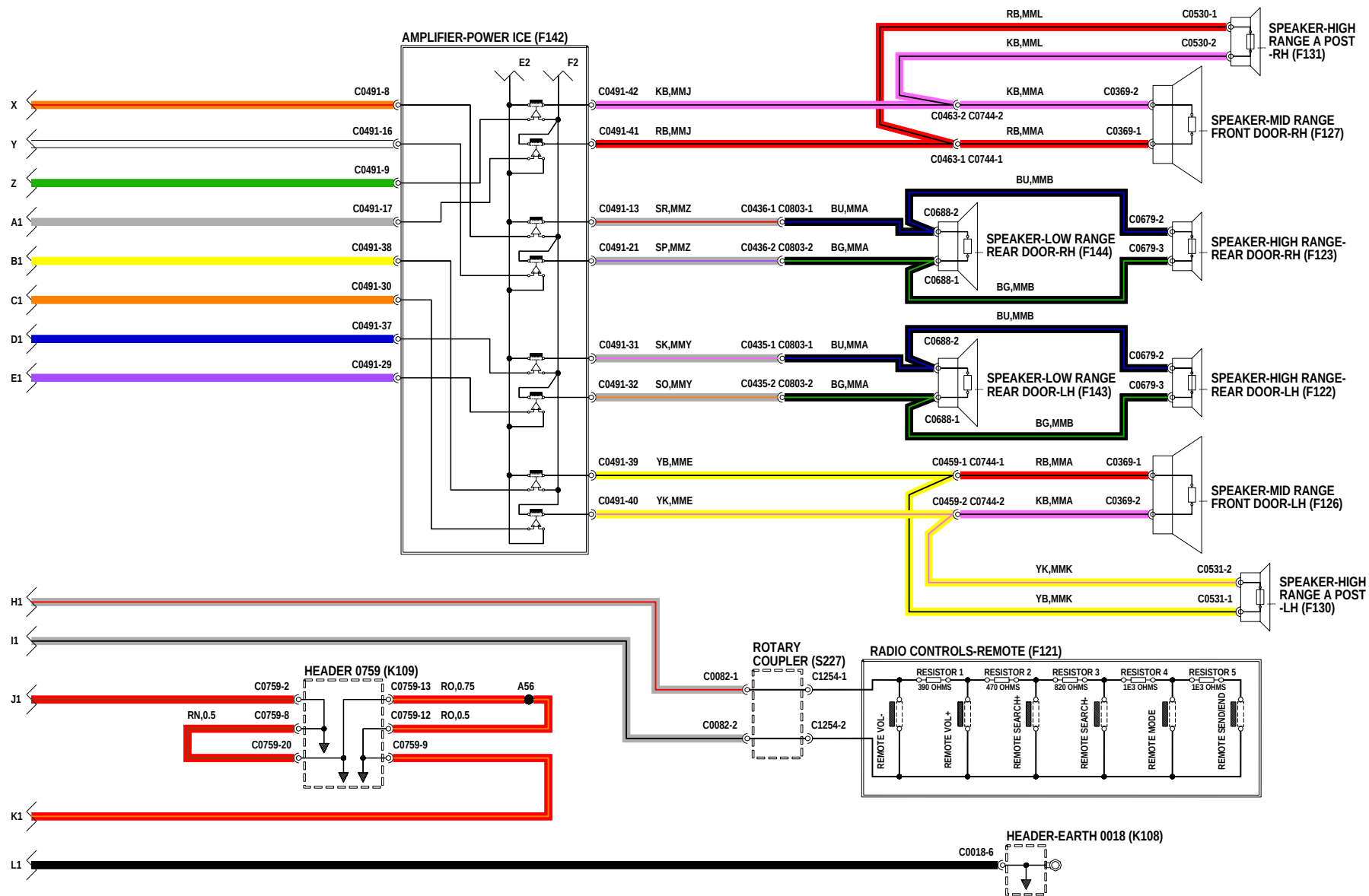


IN-CAR ENTERTAINMENT HIGH LINE



IN-CAR ENTERTAINMENT

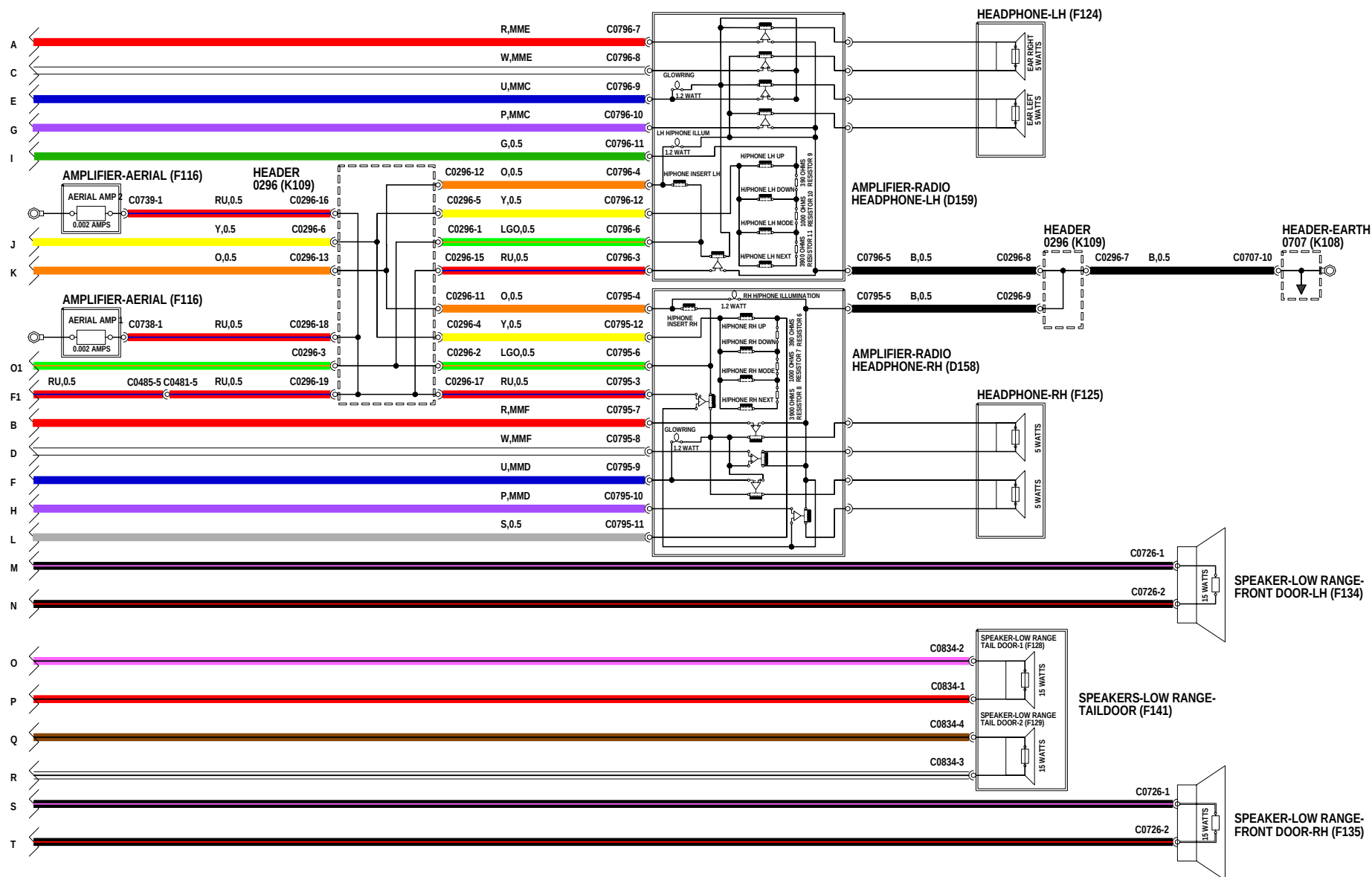
HI LINE



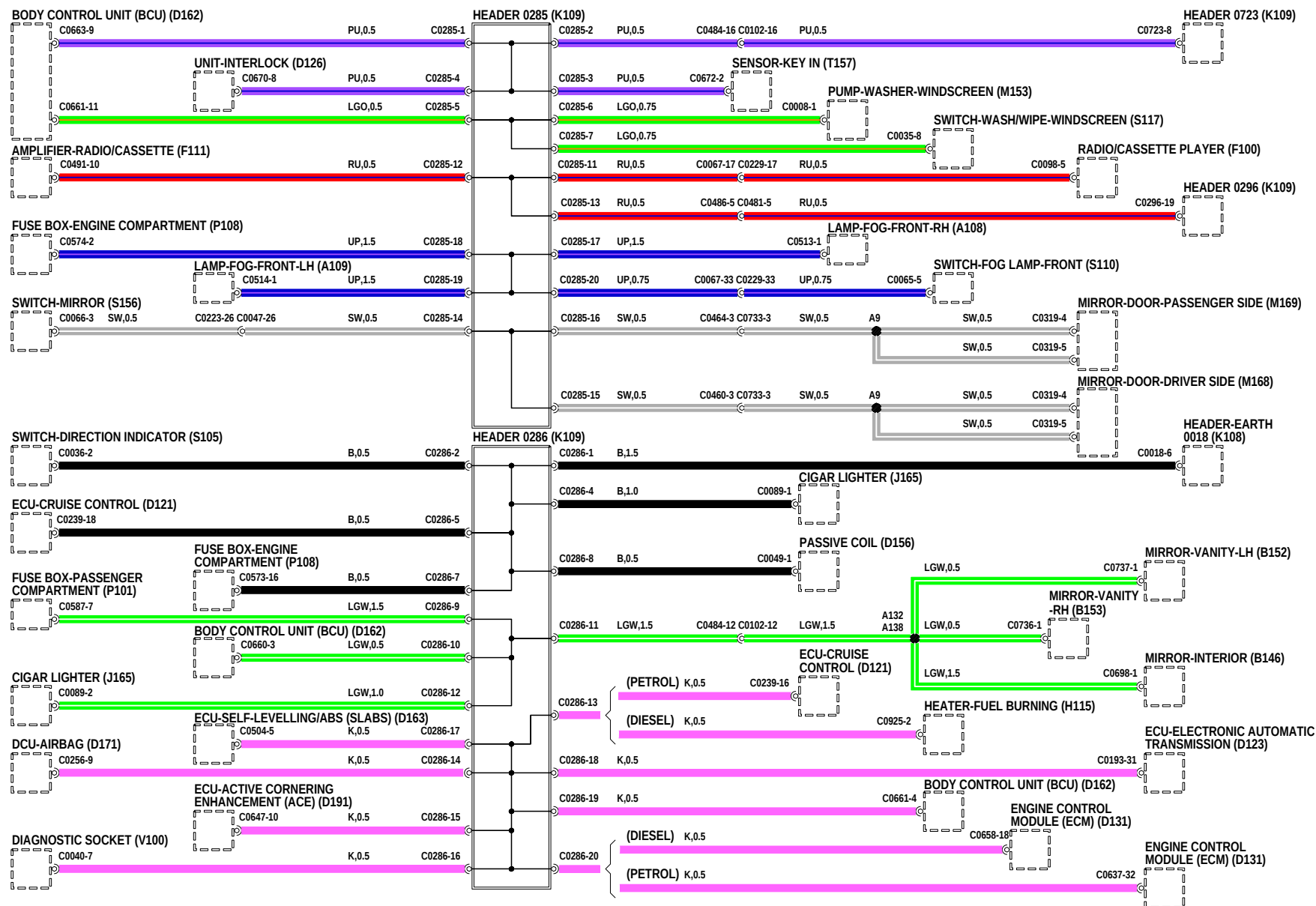
DISCOVERY SERIES II

LHD

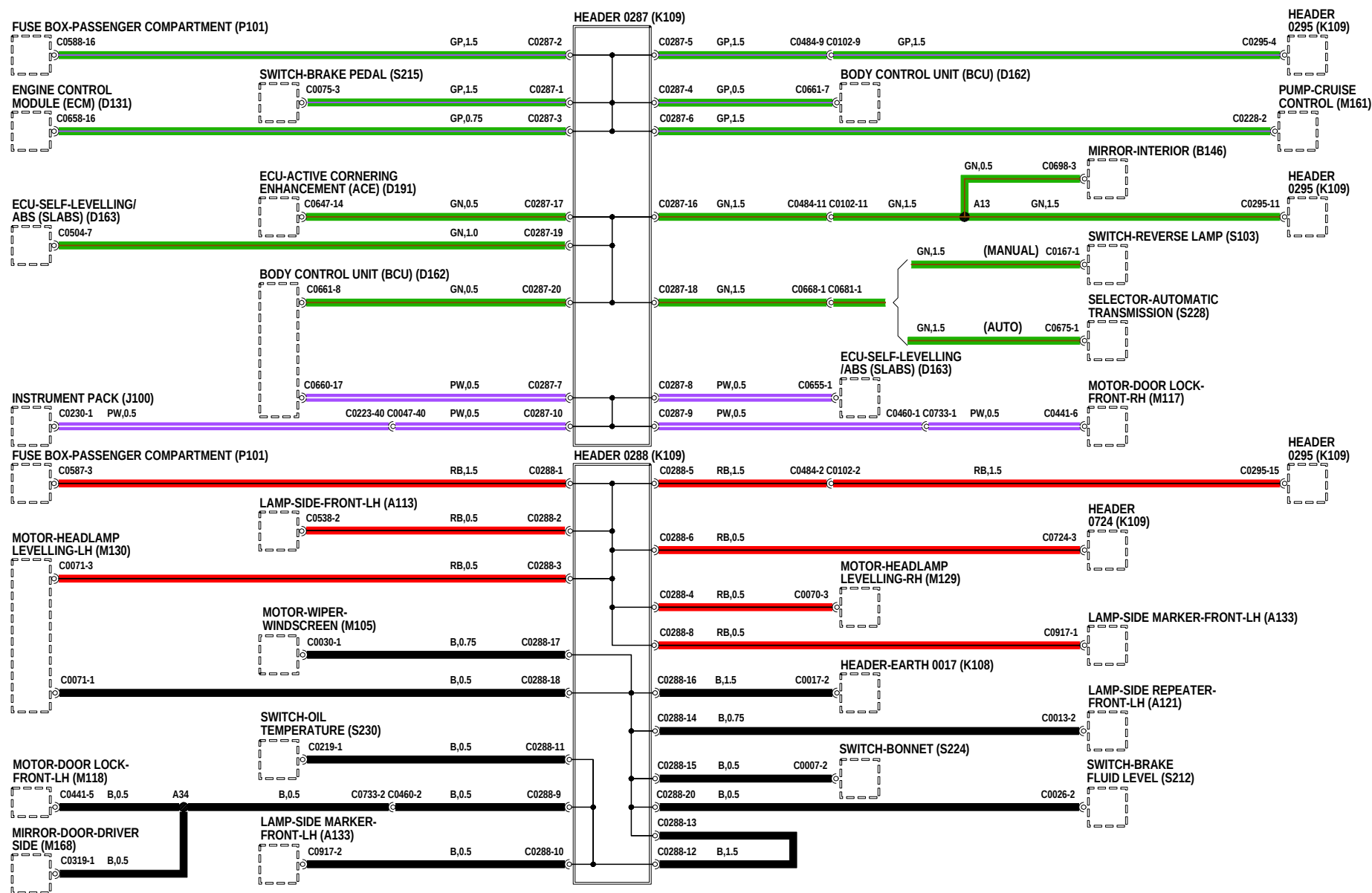
50.6



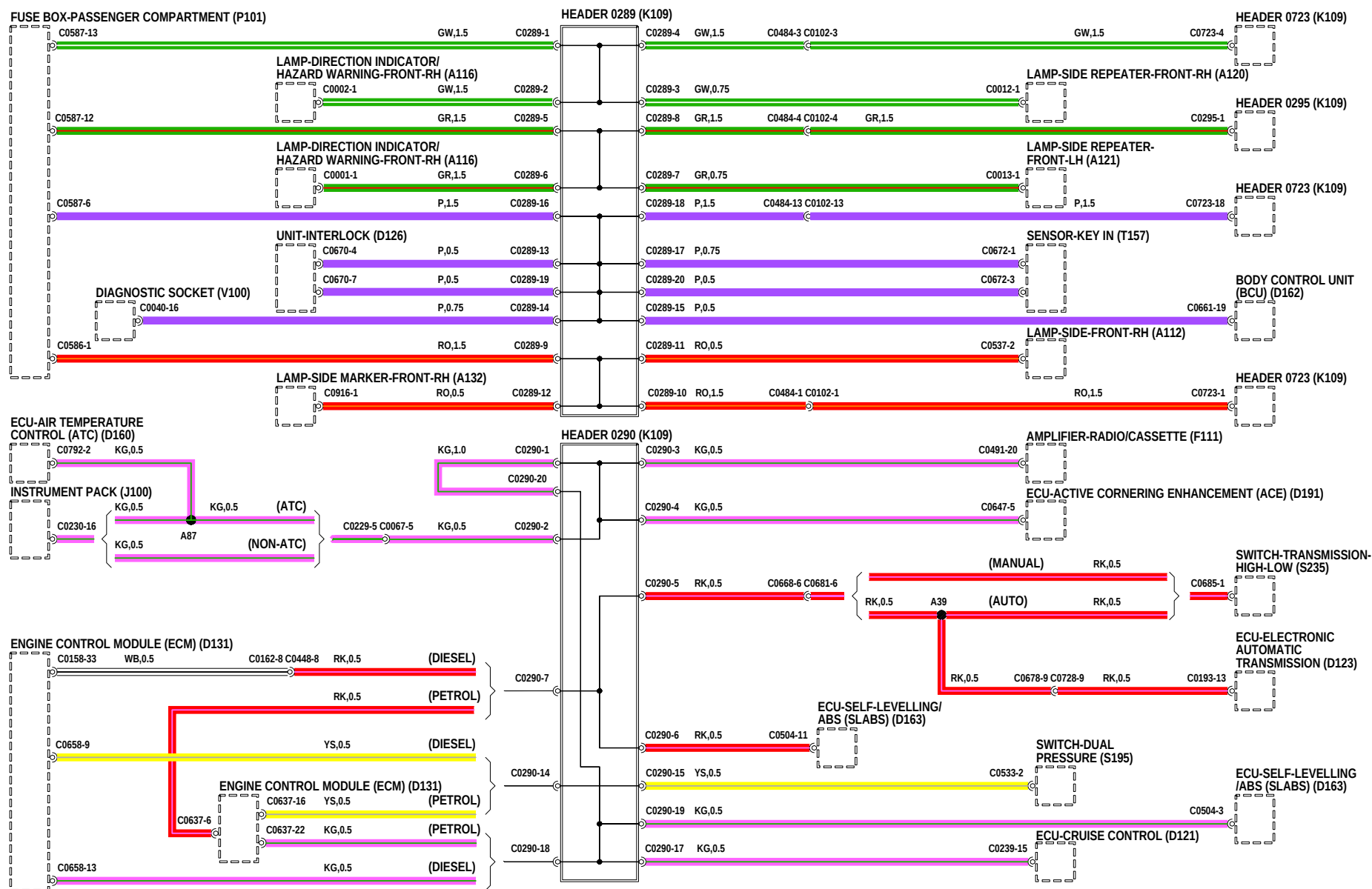
HEADER JOINTS

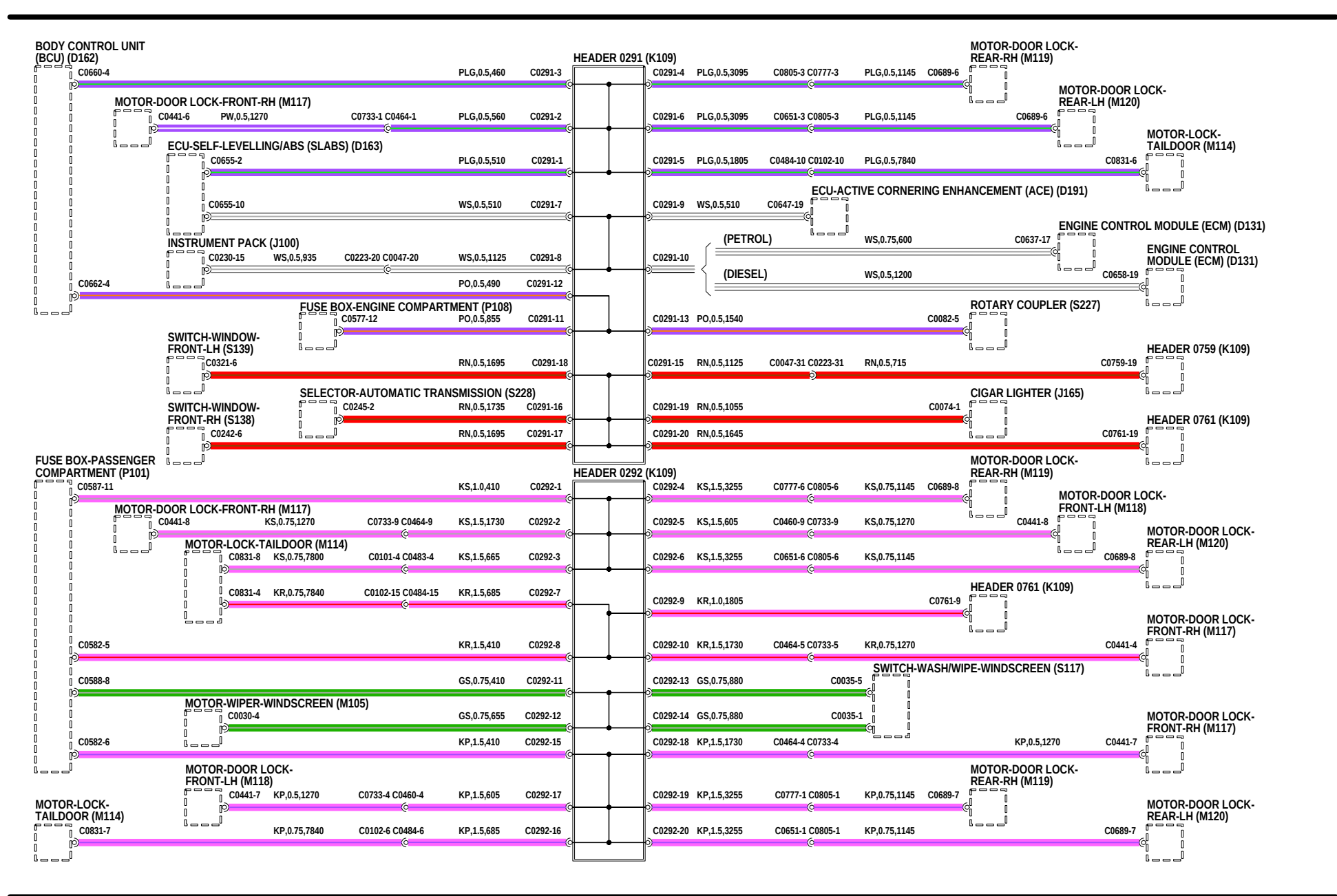


HEADER JOINTS

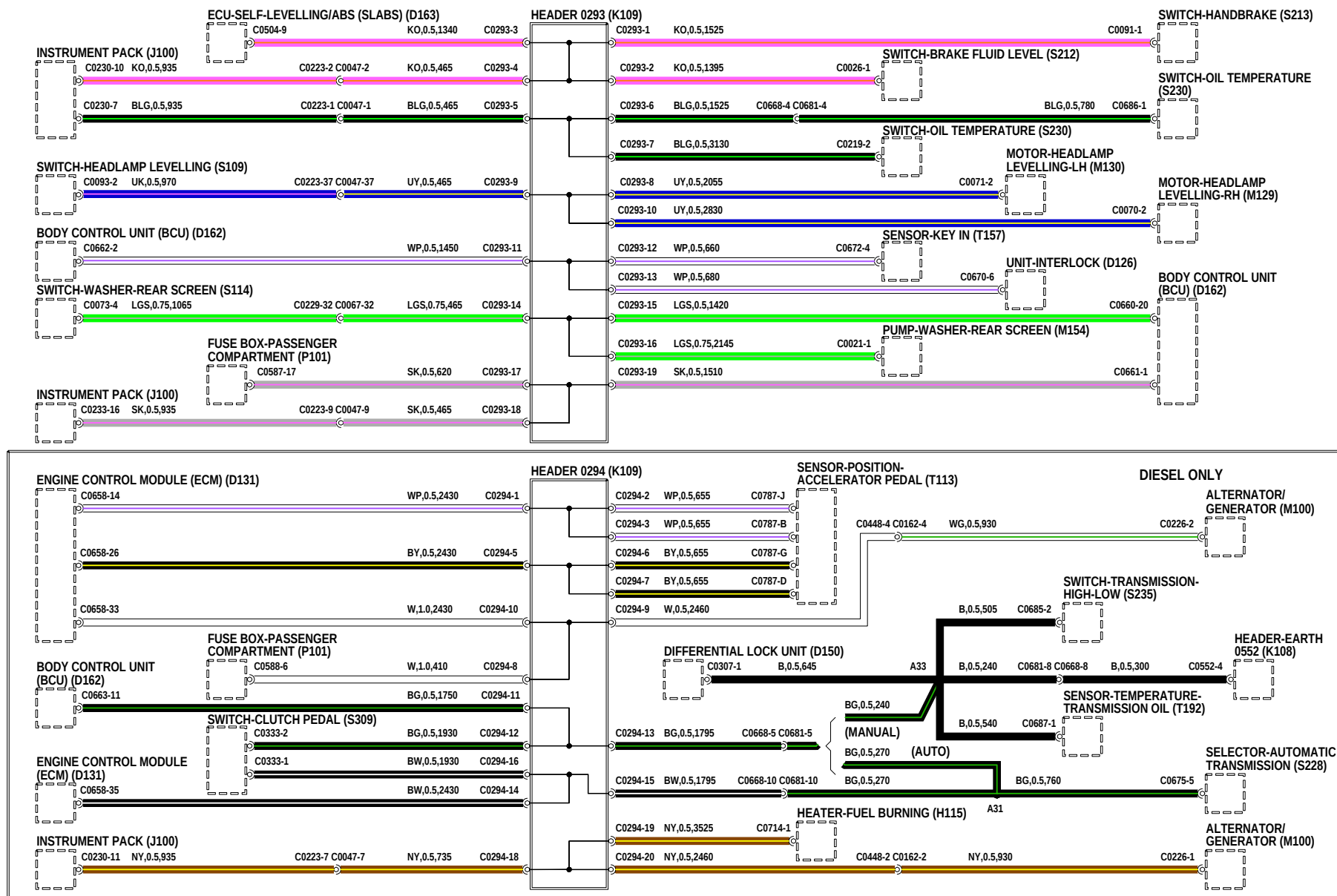


HEADER JOINTS

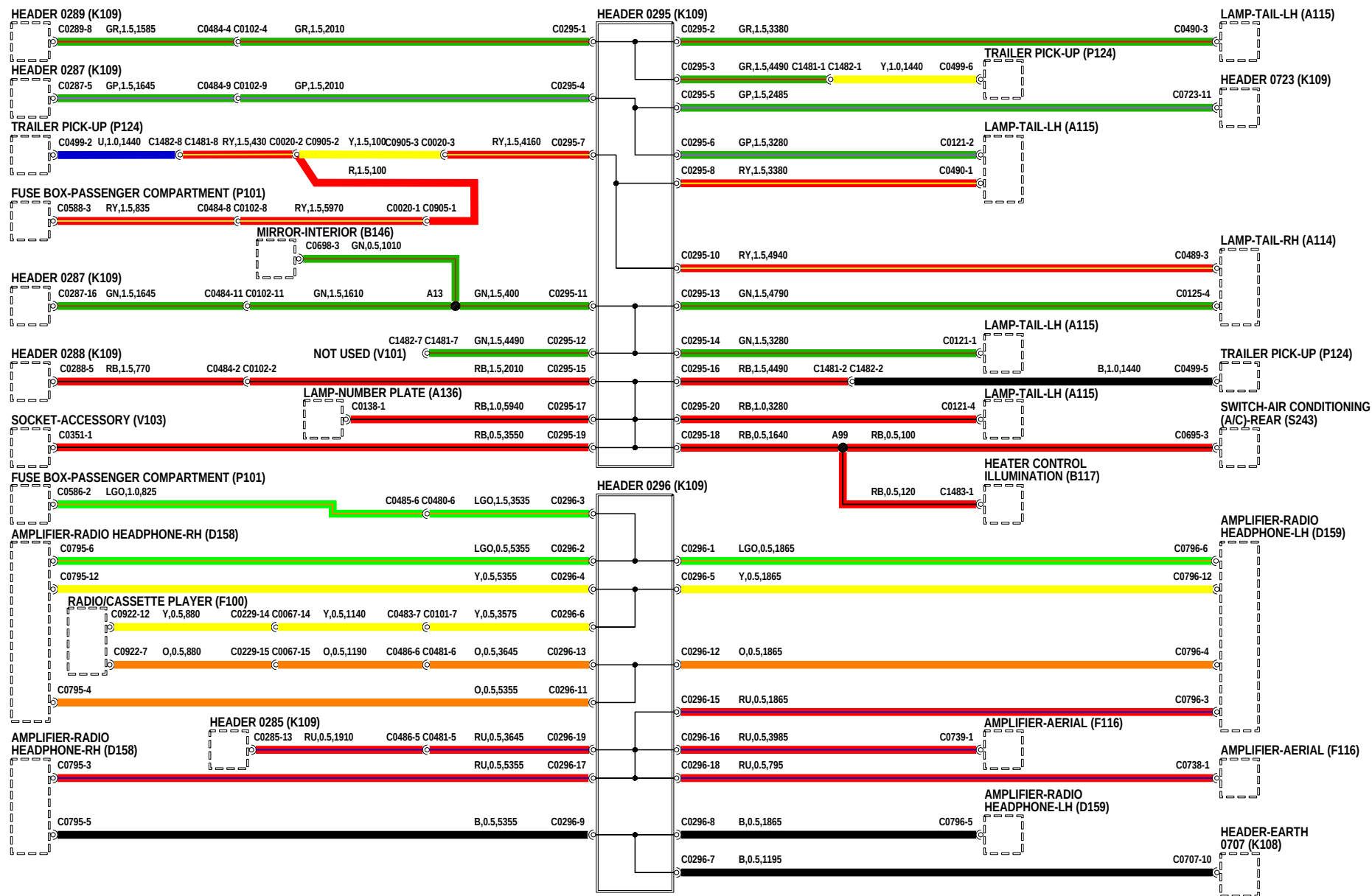




HEADER JOINTS

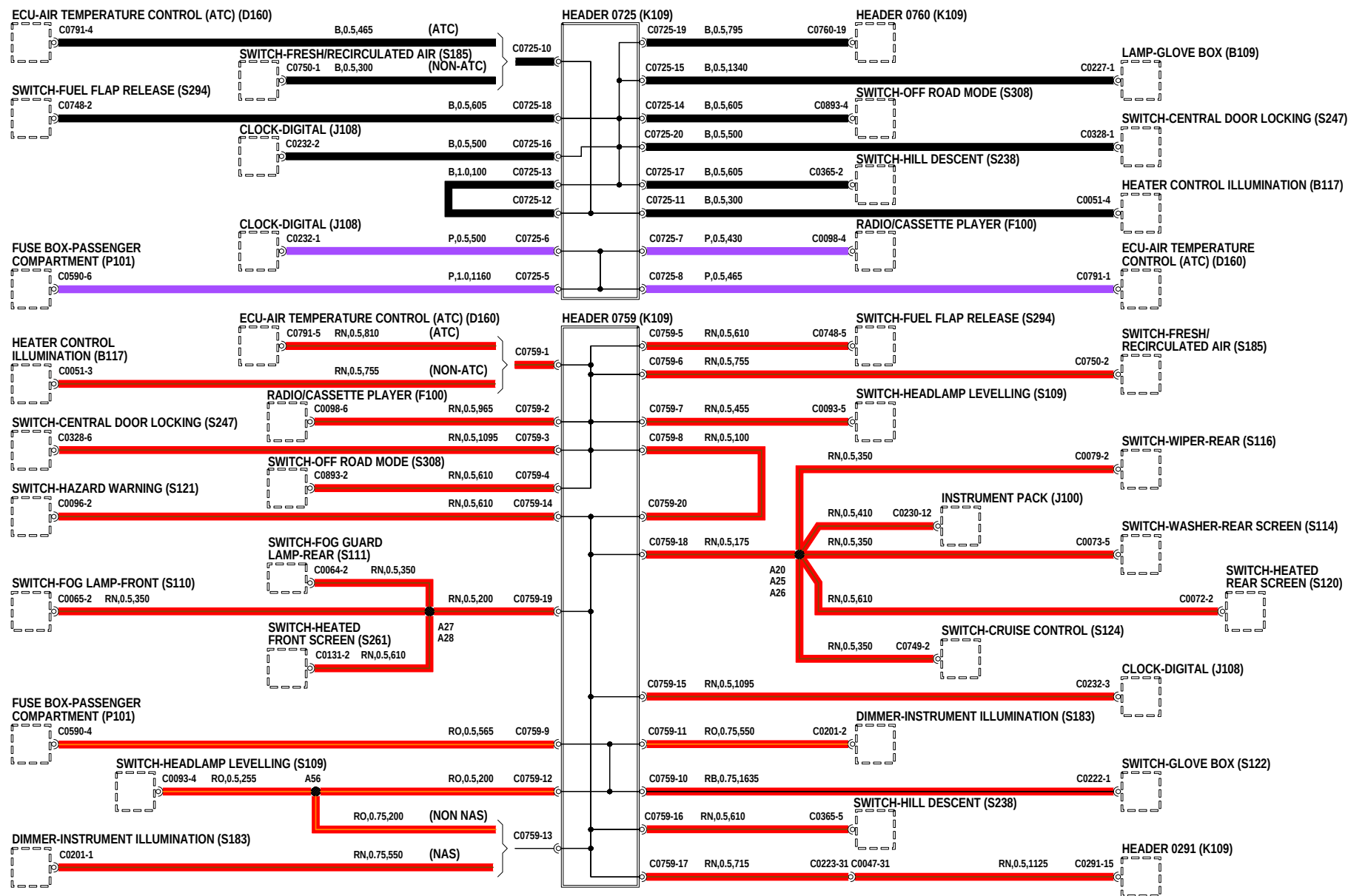


HEADER JOINTS

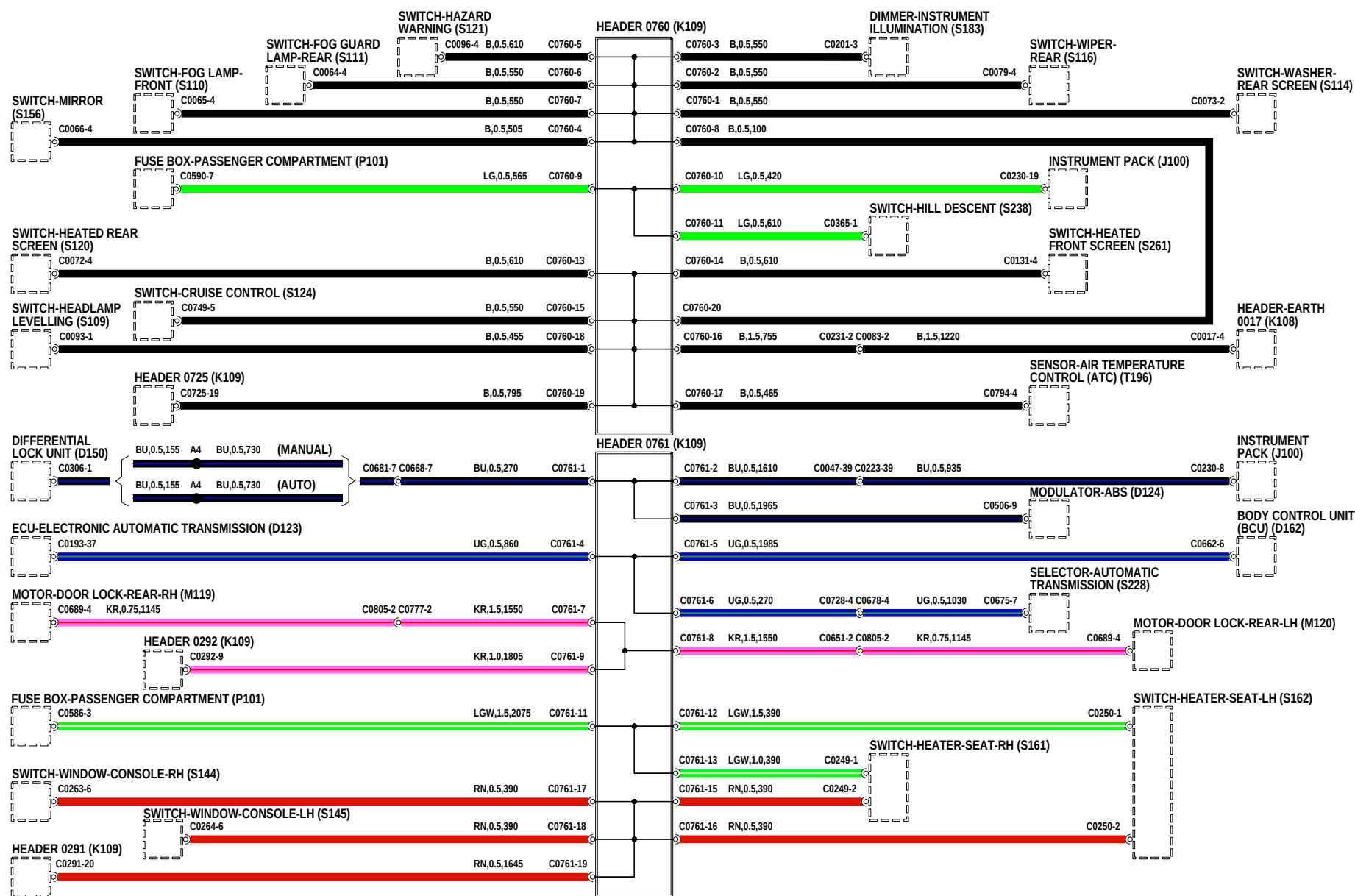




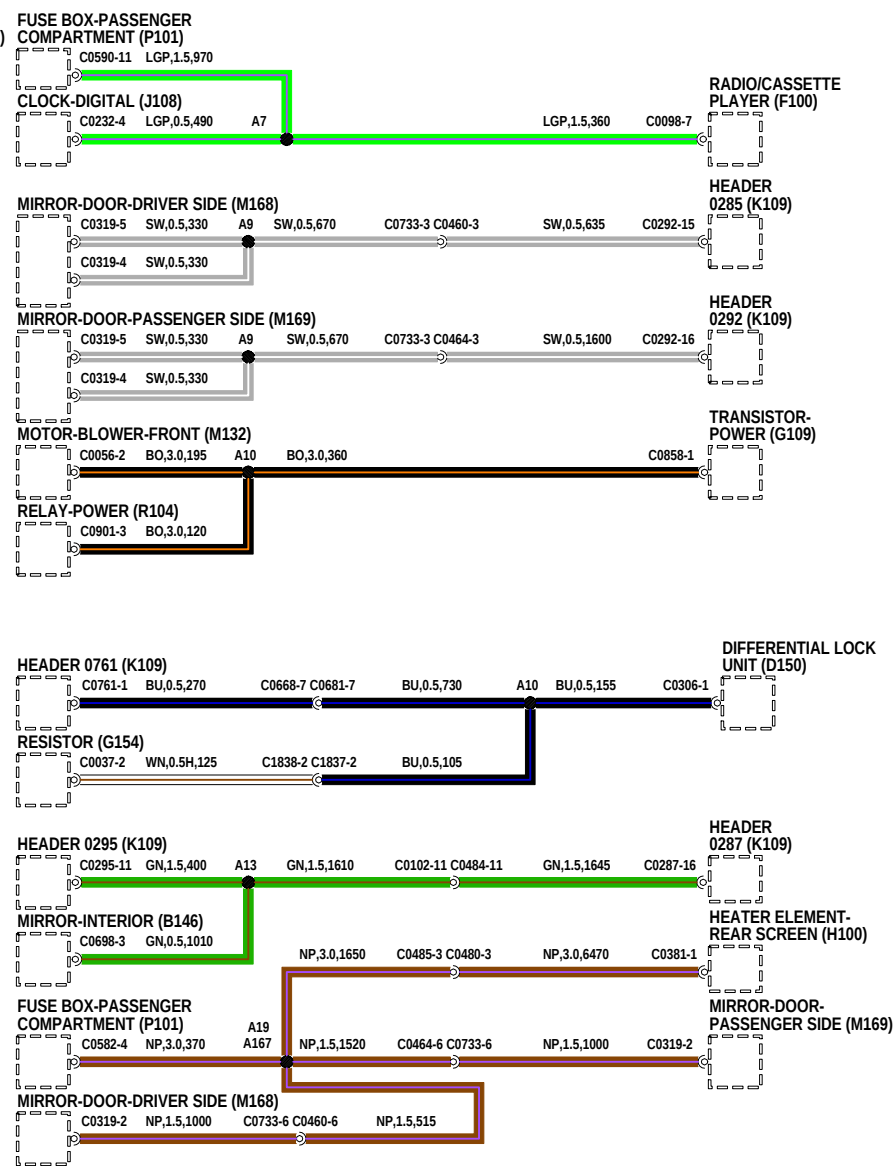
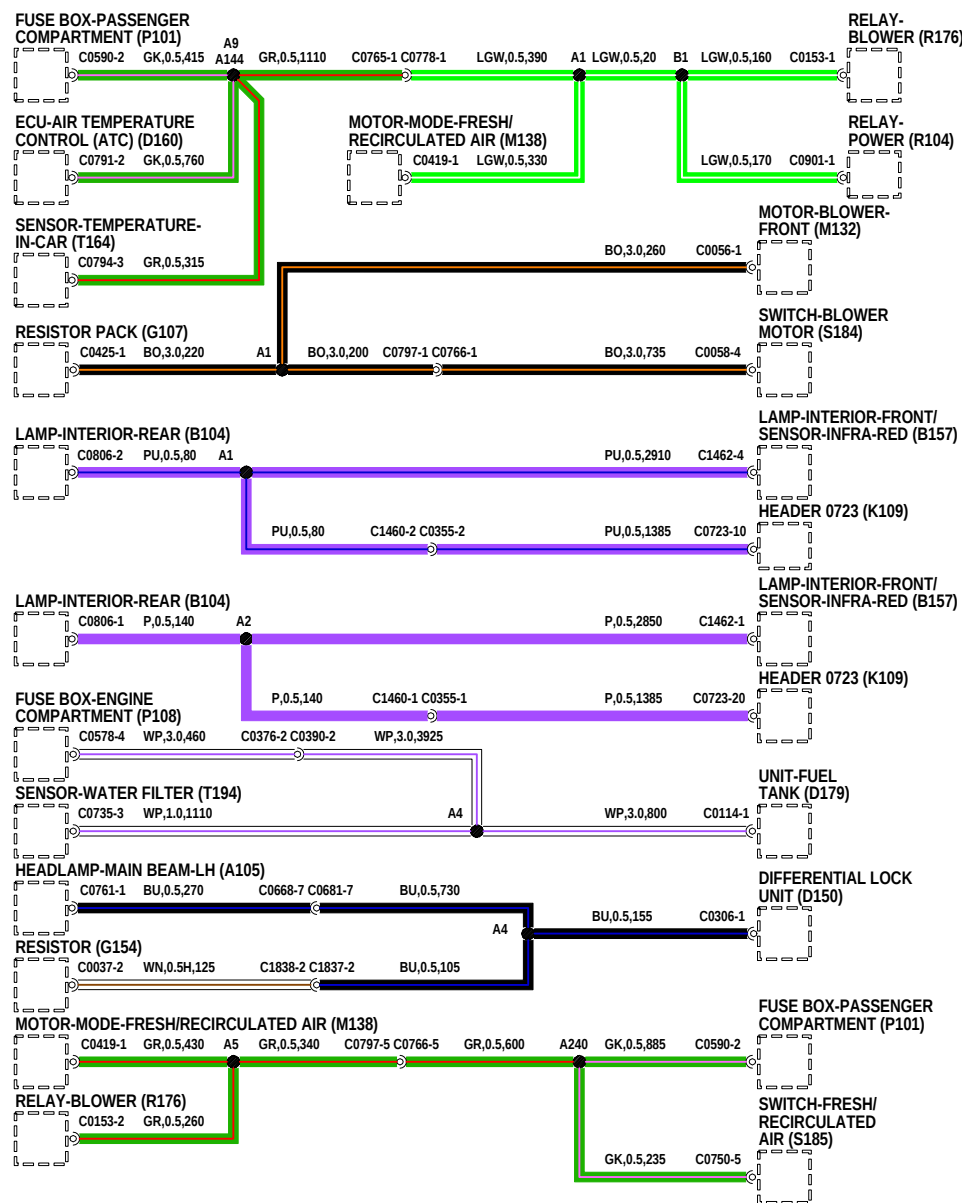
HEADER JOINTS

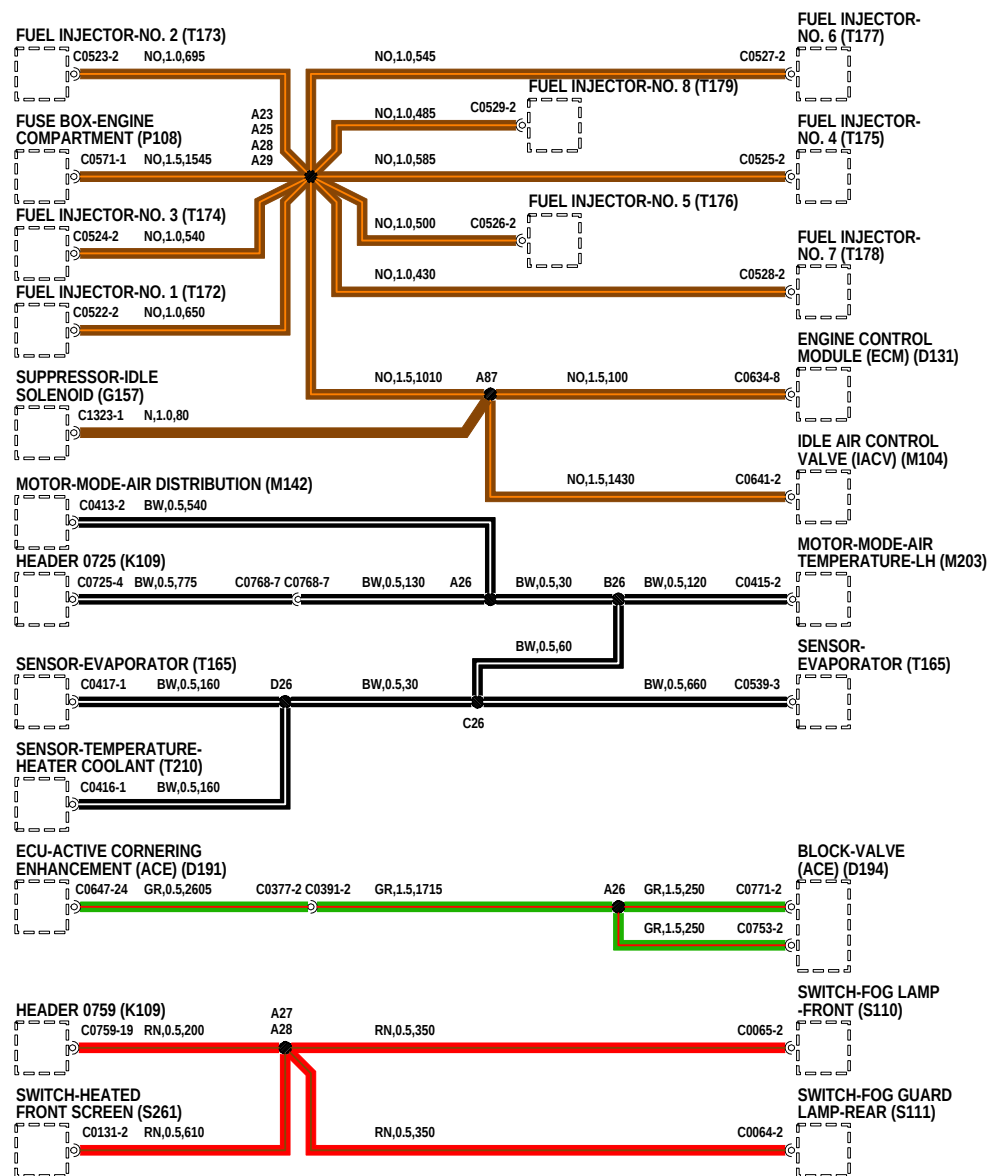


HEADER JOINTS

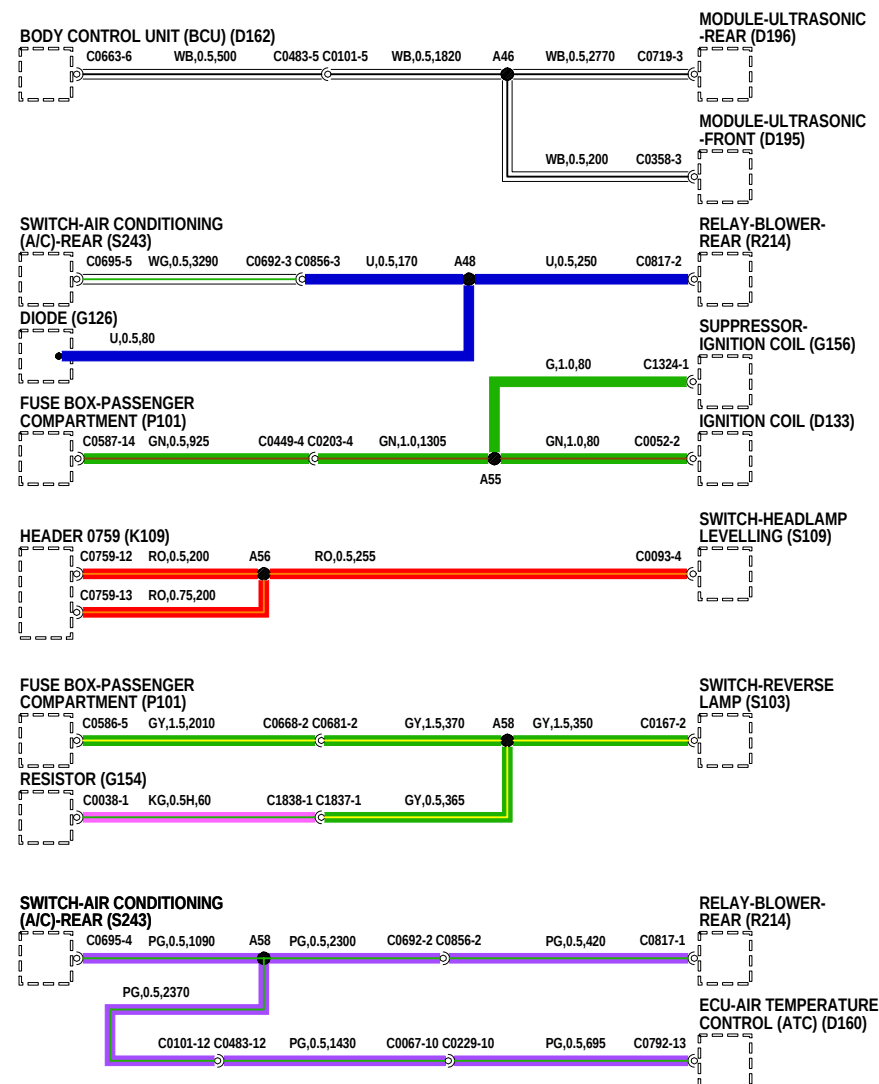
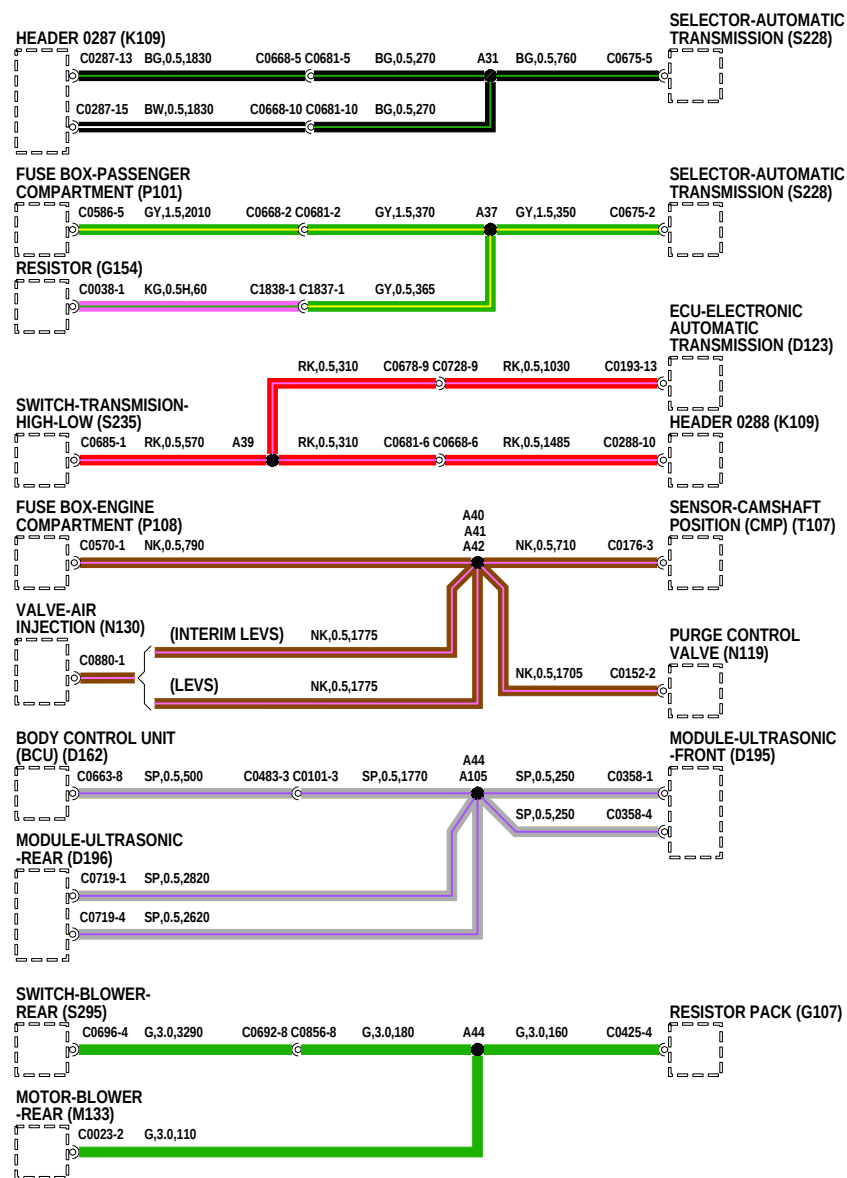


SPLICES AND CENTRE TAPS

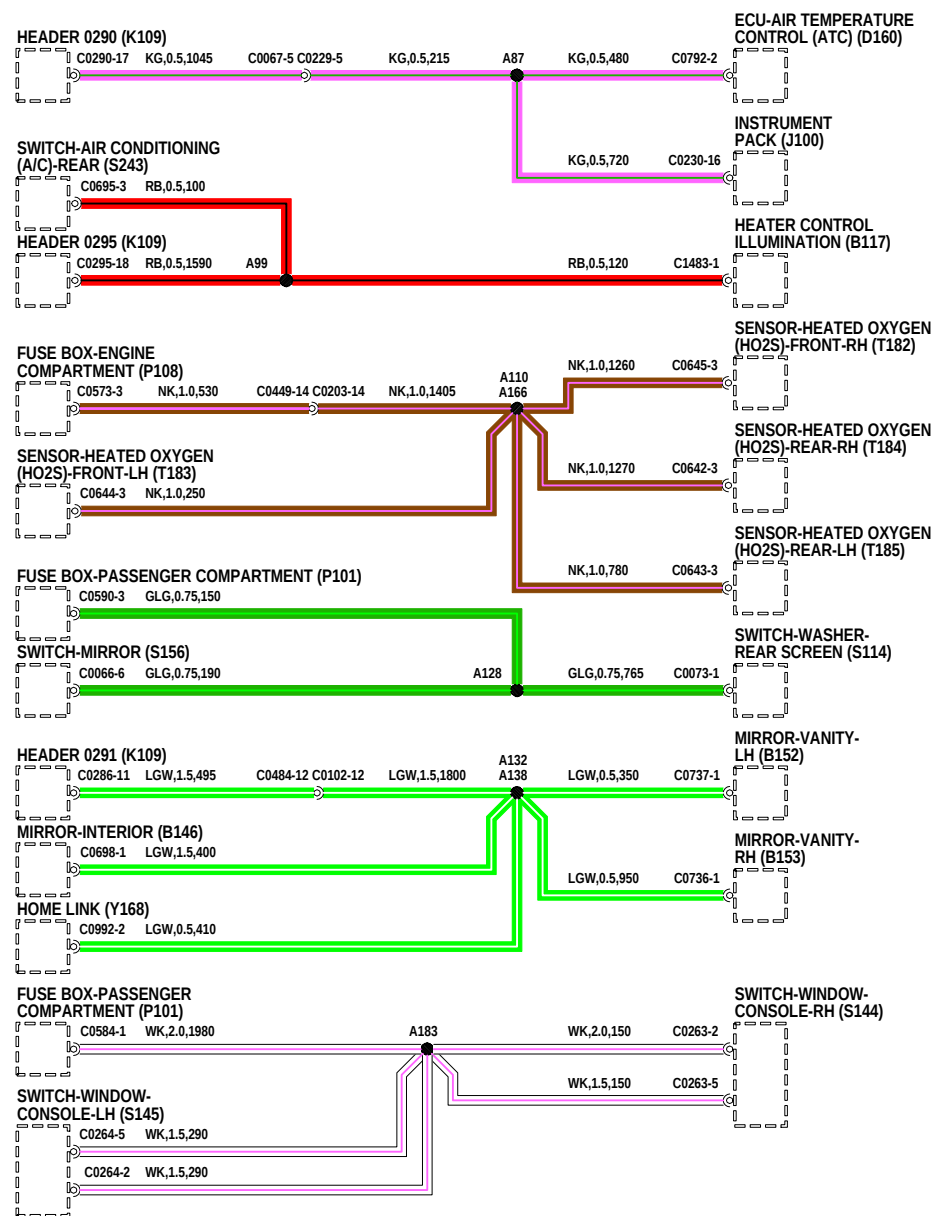
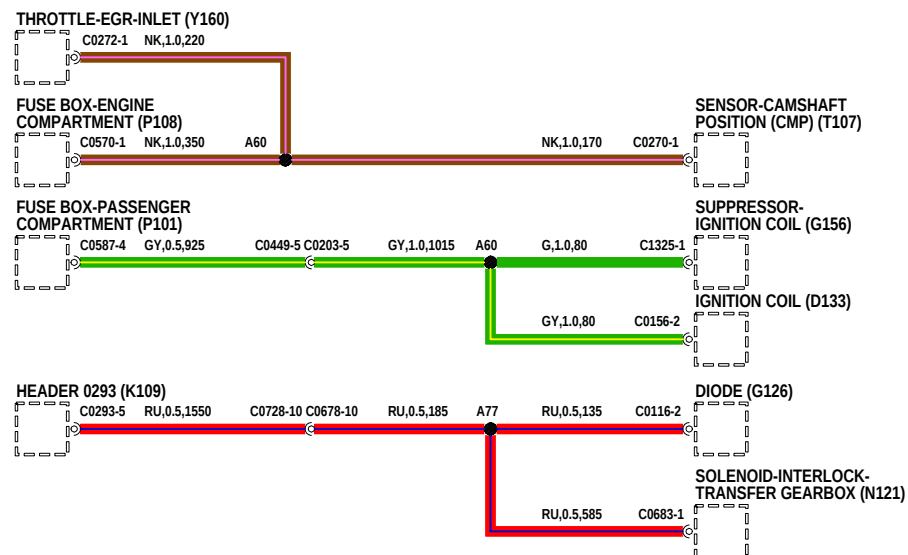




SPLICES AND CENTRE TAPS



SPLICES AND CENTRE TAPS



SPLICES AND CENTRE TAPS

