

F

Electrical Circuit Diagrams



**Elektrische
Circuitdiagrammen**

Schémas Eléctriques

Elektrische Schaltpläne

Schema di Circuiti

**Esquemas de Circuitos
Eléctricos**

**Diagramas dos Circuitos
Eléctricos**



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ELECTRICAL CIRCUIT DIAGRAMS

RCL 0341ENG

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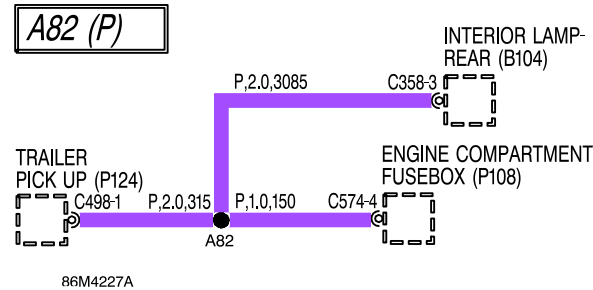
HOW TO USE THE CIRCUIT DIAGRAMS

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 table.

Wire type

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

Code	Description
D	Single core DIN wire
F	Single core flexible wire
H	Single core high temperature wire
SA*	Single core resistive wire (0.9 ohms/m)
SB*, SC*, SD*	Single core dual extruded wire
SE*, SF*	Single core fusible wire
MA*, MAC, MAD, MAE, MAF, MAG, MAH	Coaxial screened wire
MB*, MO*, MAK	Single core screened wire
MC*, MI*, MP*, MQ*, MAB, MAP	Twin core screened wire
MD*, MJ*, MAM	Twin core ABS sensor wire
ME*, TA*, TB*, MM*, MN*, MU*,MAI	Twisted pair of wires
MF*	Heated oxygen sensor (HO2S) screened wire
MG*	Twin core twisted, screened wire
MH*	Four core twisted, screened wire
MK*	Three core SRS sensor wire
ML*, MAA, MAR	Four core screened wire
MR*	Six core screened, flexible wire
MS*	Four core screened, flexible wire
MT*	Single core screened, flexible wire
MV*	Twin core flat wire
MW*	Three core round wire

Code	Description
MX*, MY*	Seven core round wire
MZ*	Three core screened, flexible wire
MAJ	Twin core round cable
MAQ, MAU	Three core screened wire
MAS	Single core, double sheath wire
MAT	Double core, double sheath wire
MAL	SRS wire
MAN	Twin core braided, screened wire

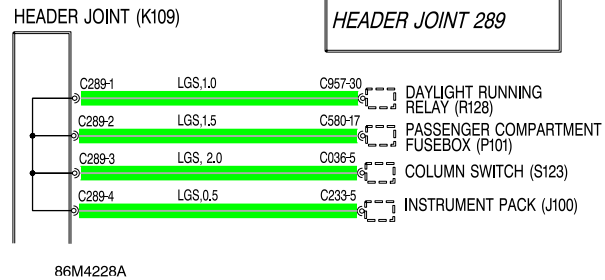
Wire length (Power & Earth Distribution only) - the length of the wire in millimetres. This can be used to locate internal harness splices; look for the shortest wire between the joint and connector. For example, it can be seen that C574-4 is 150mm from joint A82.

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.

HOW TO USE THE CIRCUIT DIAGRAMS

Connectors



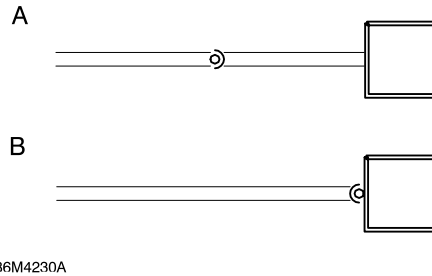
Header joints are identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C289-1 identifies connector 289, pin number 1. Wire insulation colour is identified in the normal way. Where wires have a predominant colour with a secondary colour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

Line Types



86M4229A

This means the wire connects to another circuit.

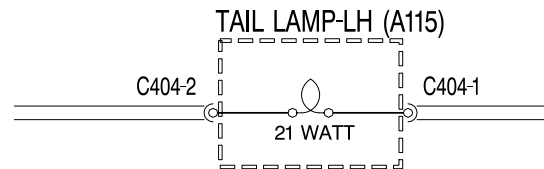


The cup and ball symbol indicates the male and female halves of connector.

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

B. Connector plugs directly into component.

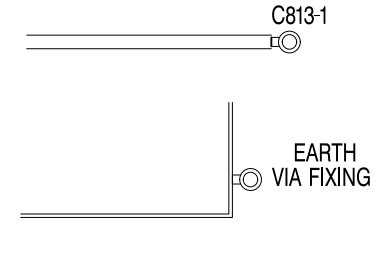
Components



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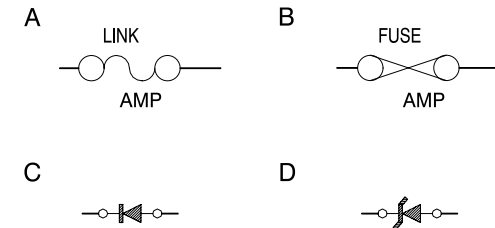
The name or description of the component is shown. A dotted outline indicates that the component is not shown in its entirety.

Earth points



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

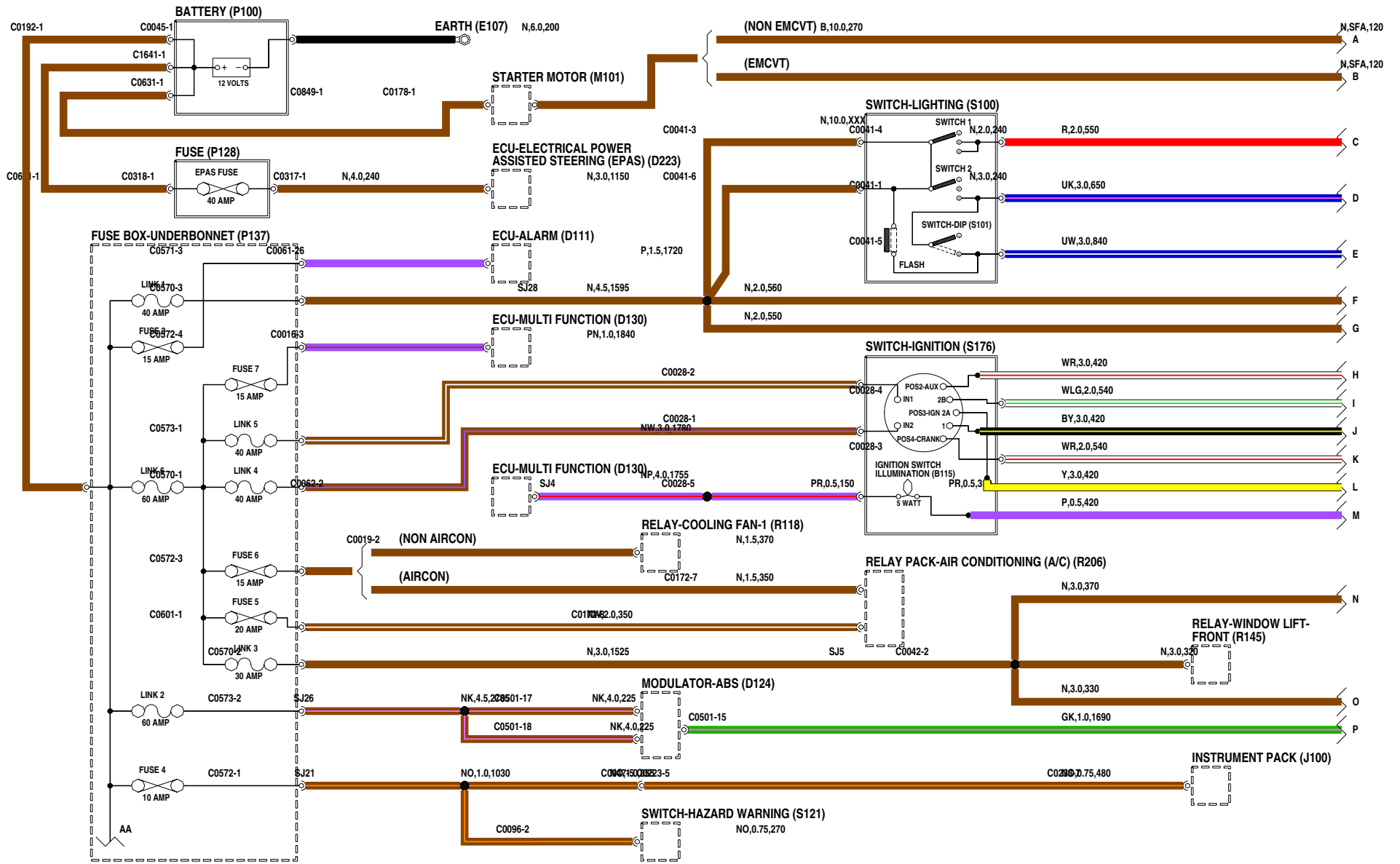


86M4234A

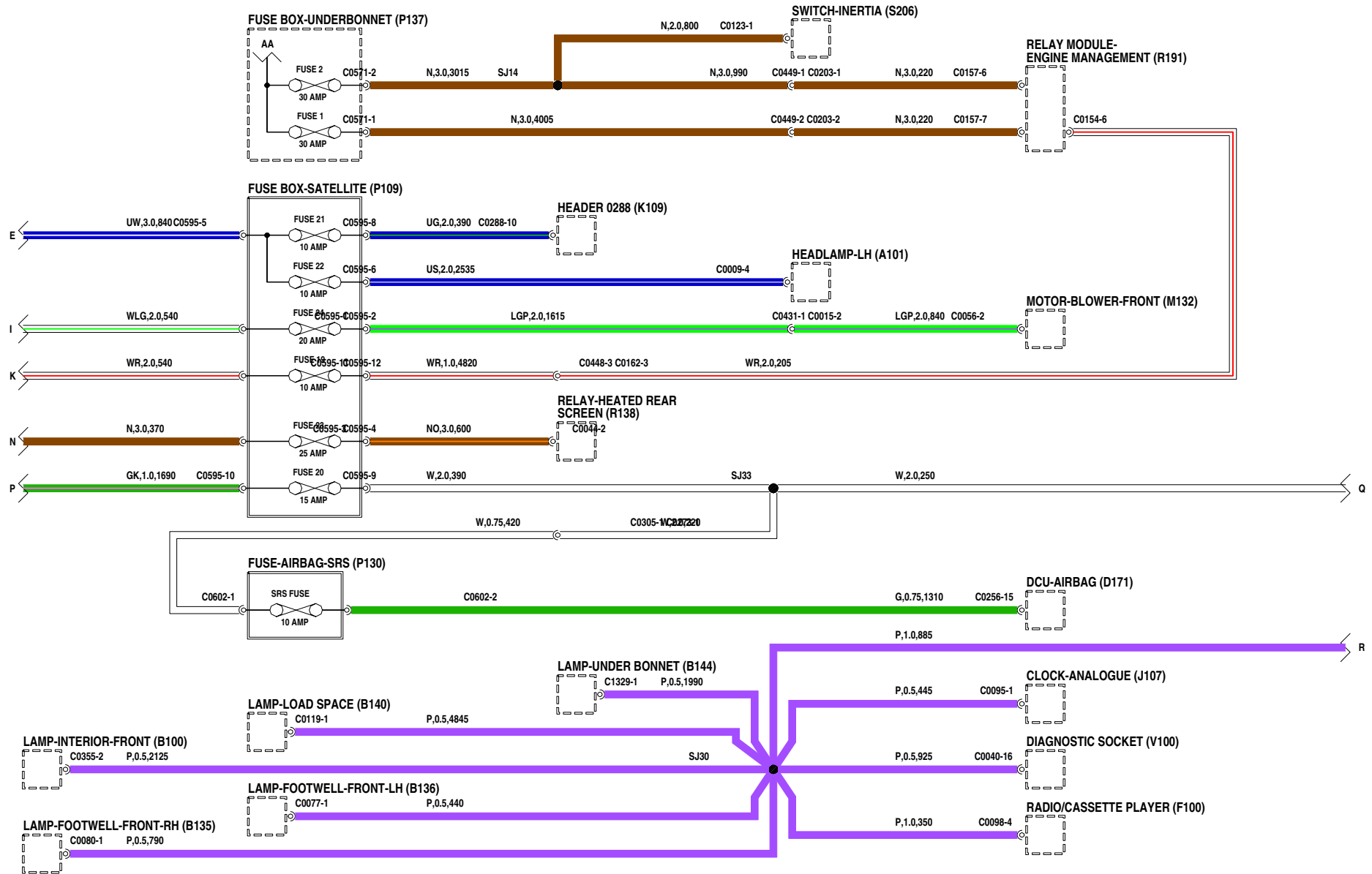
Fusible links (A) and current rated fuses (B) are identified as shown.

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.

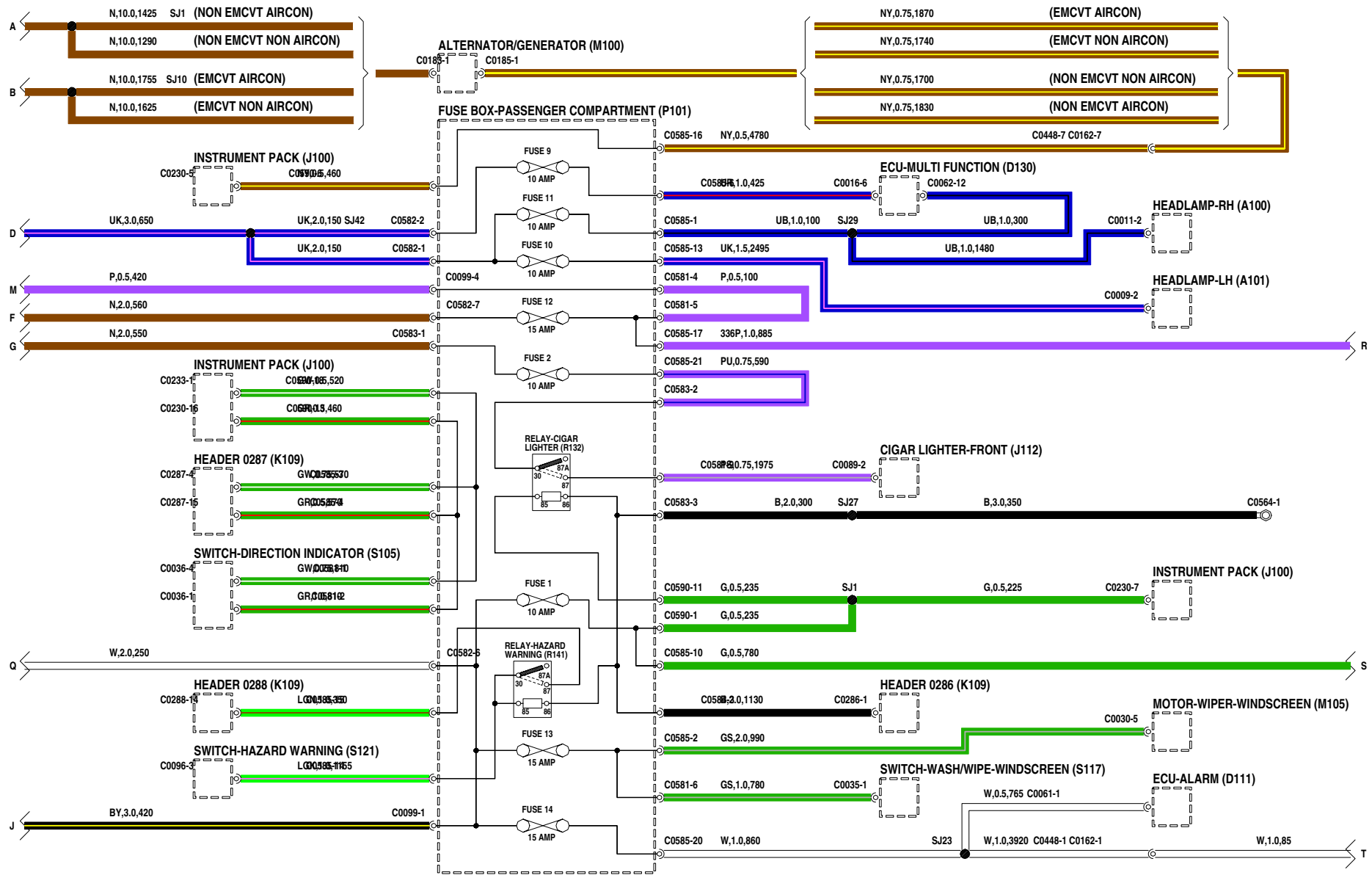
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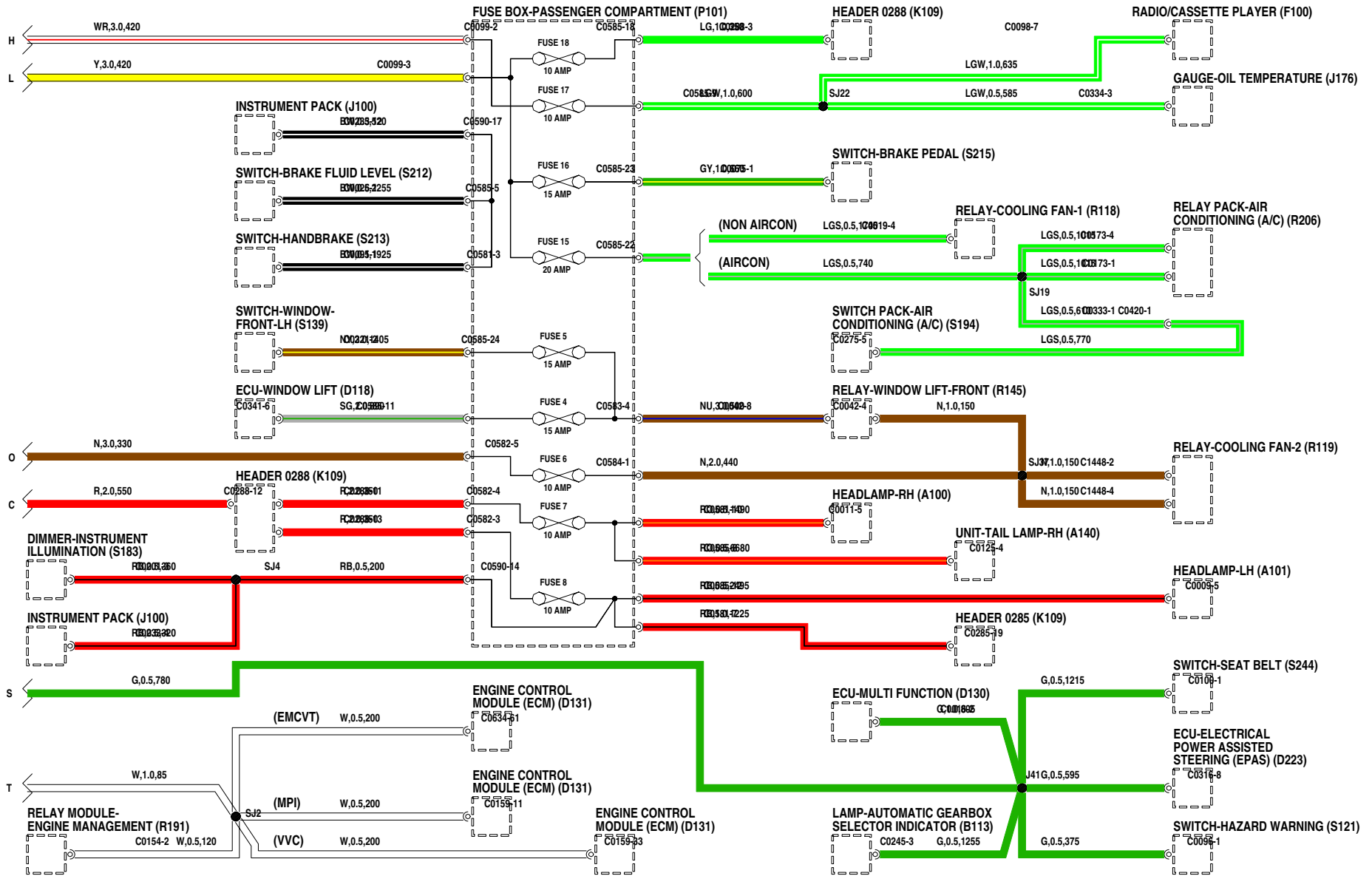
POWER DISTRIBUTION



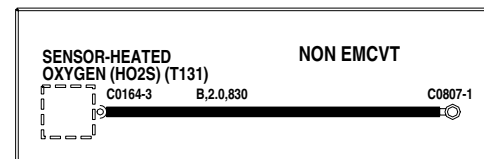
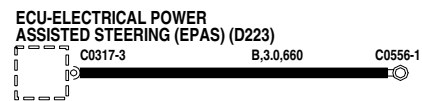
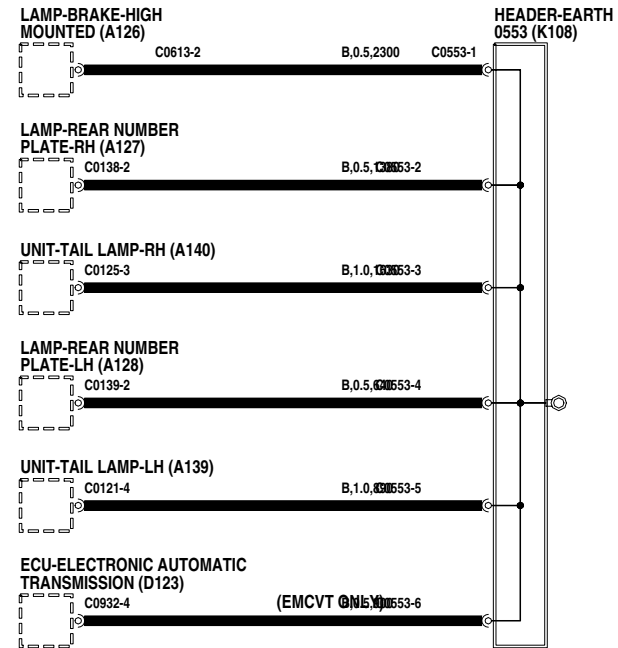
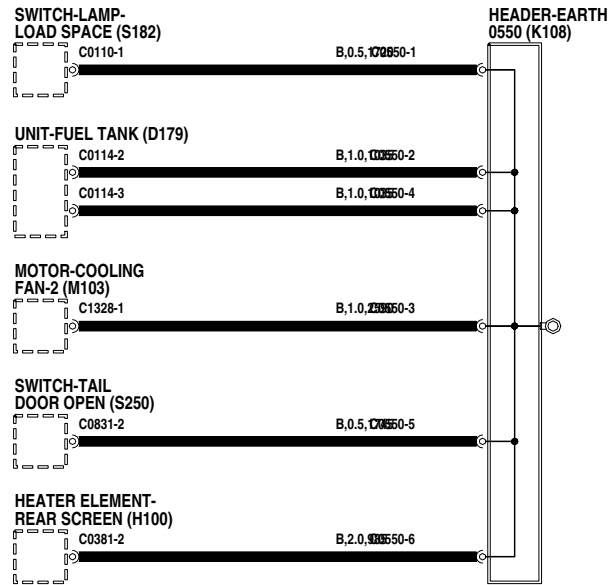
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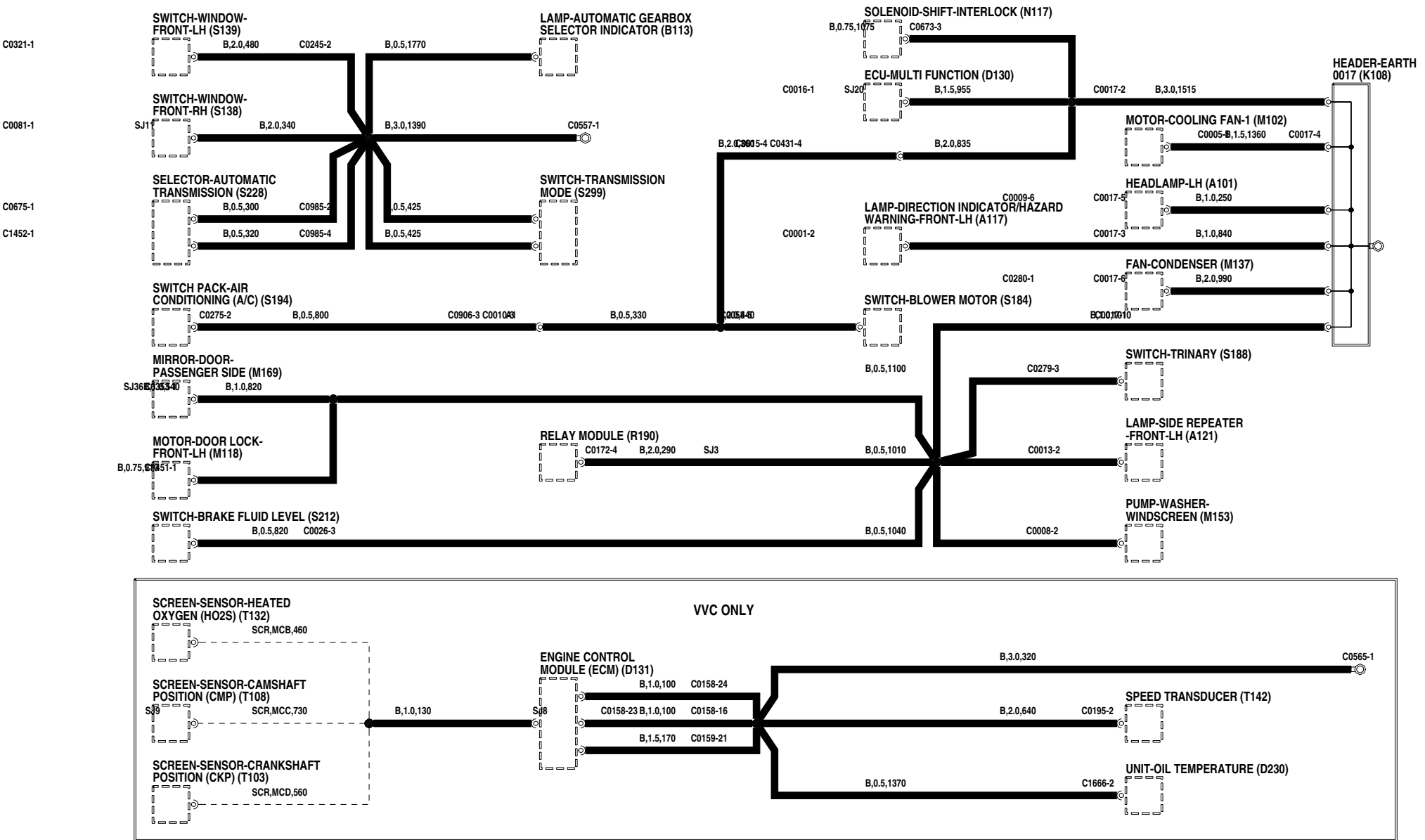
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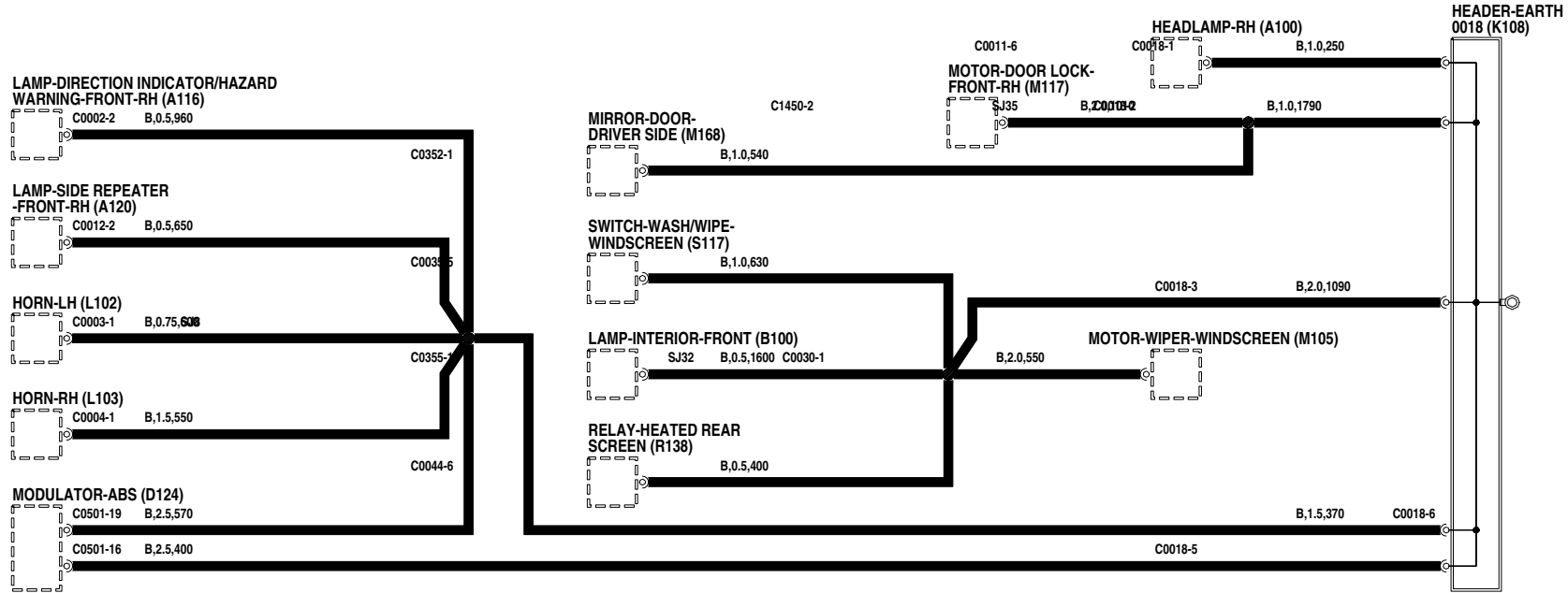
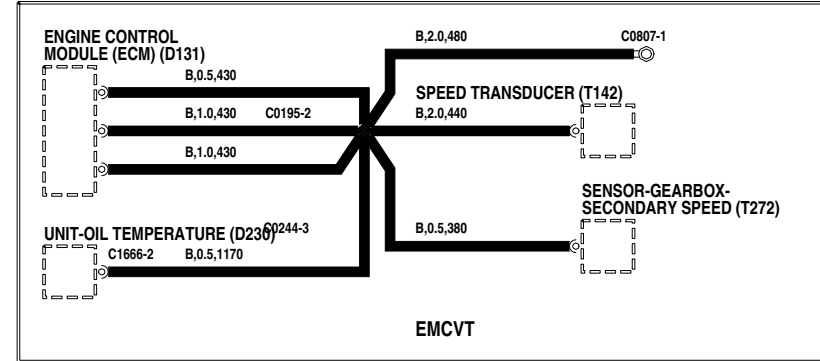
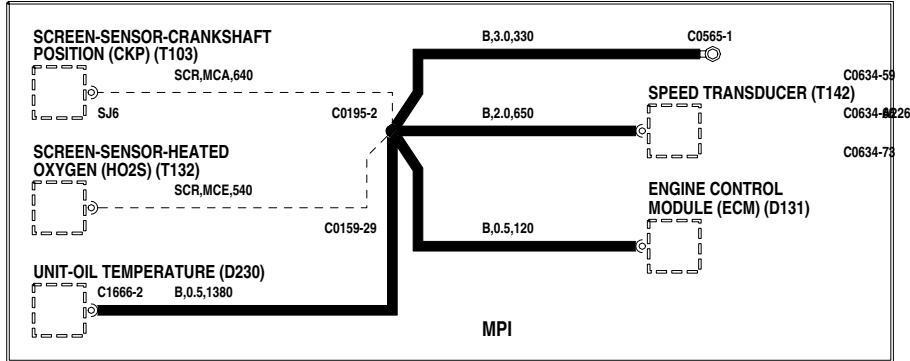
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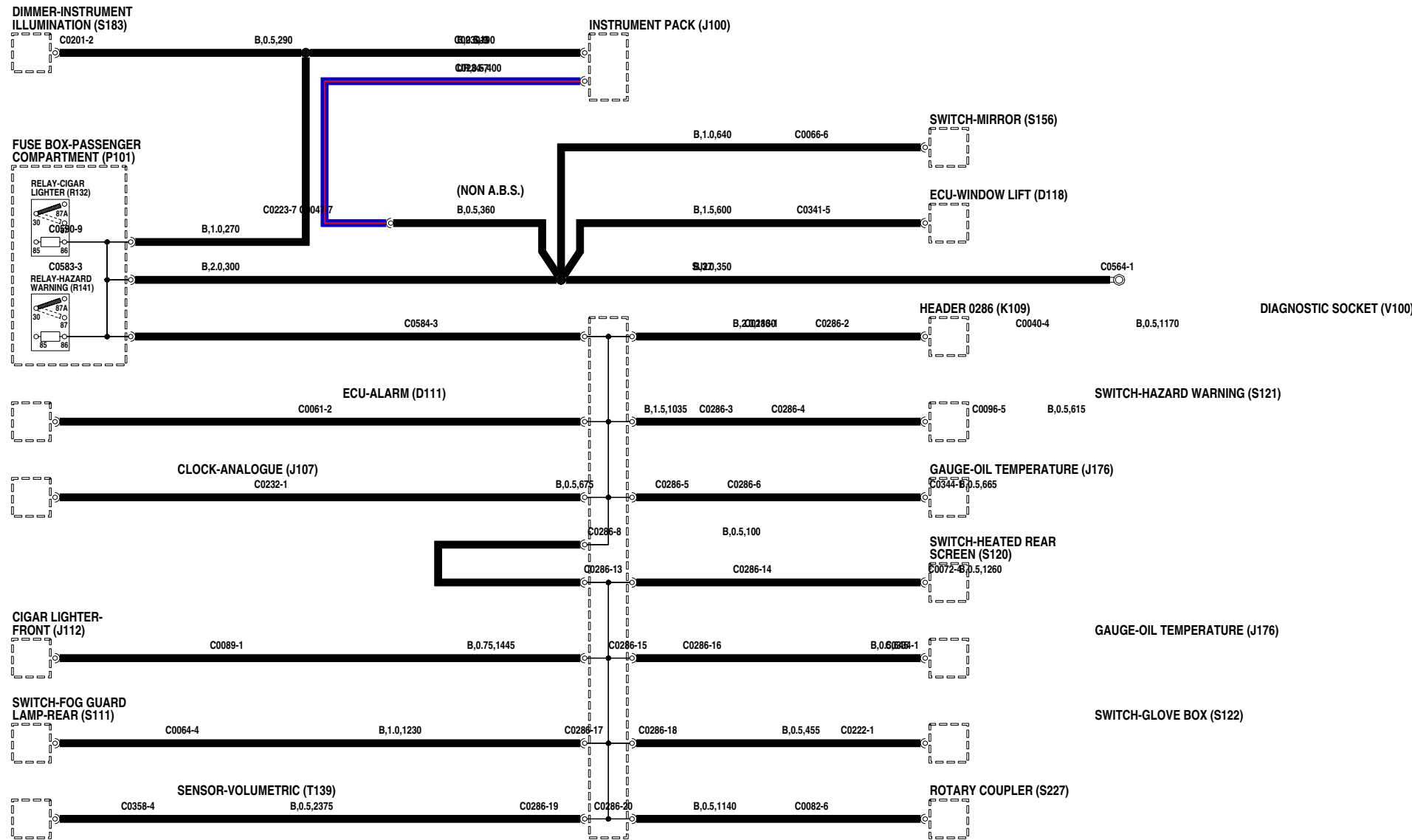
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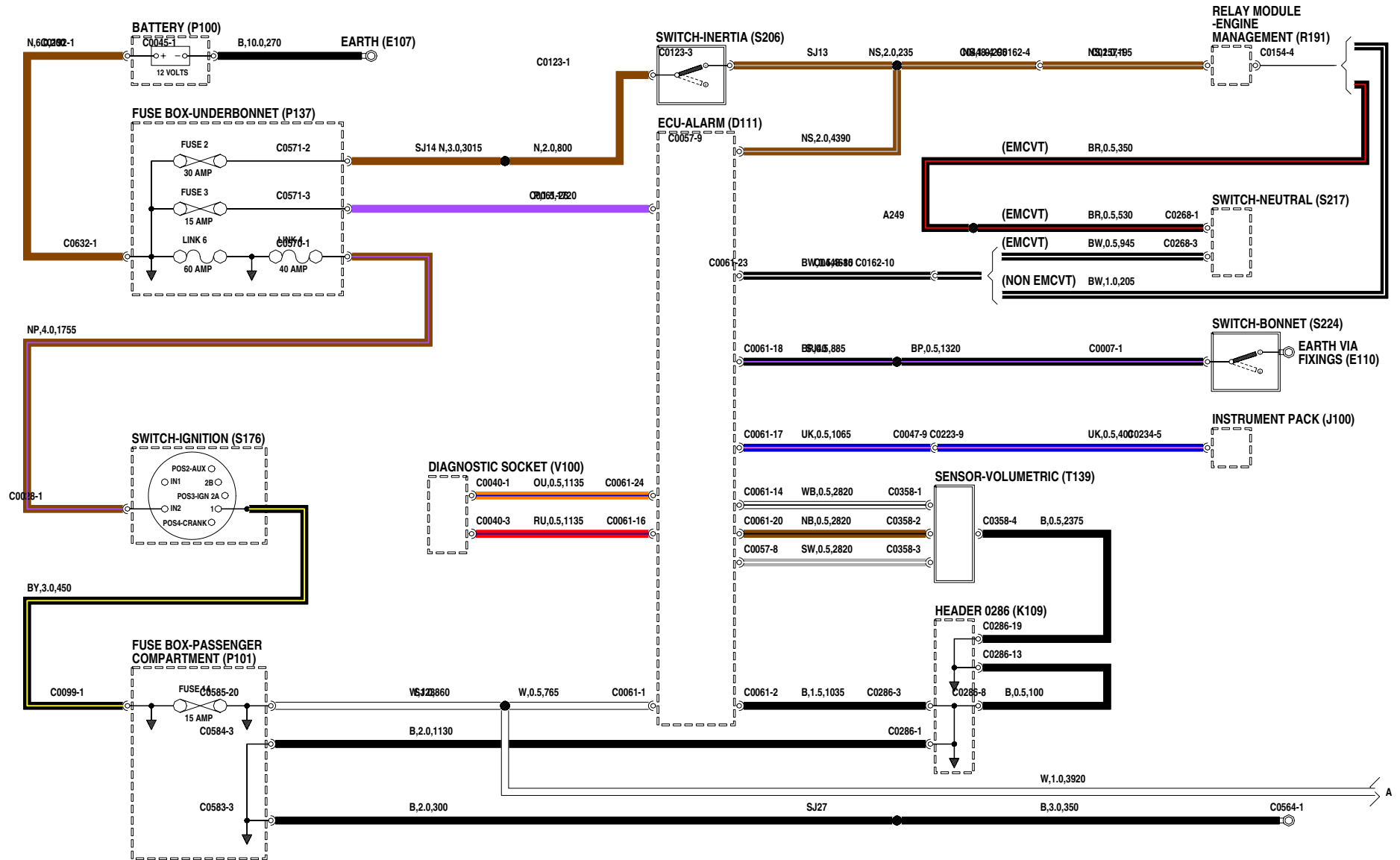
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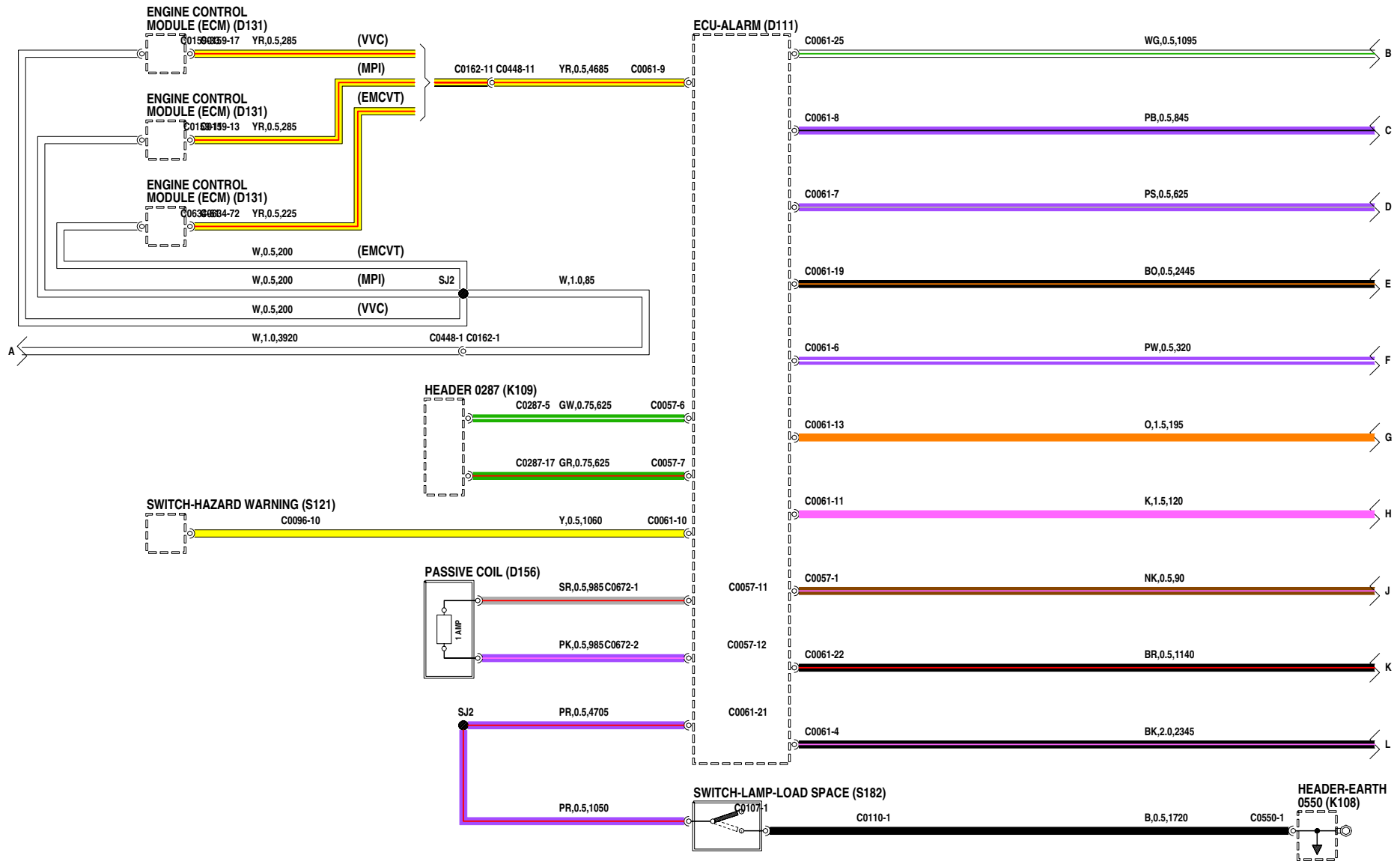
EARTH DISTRIBUTION



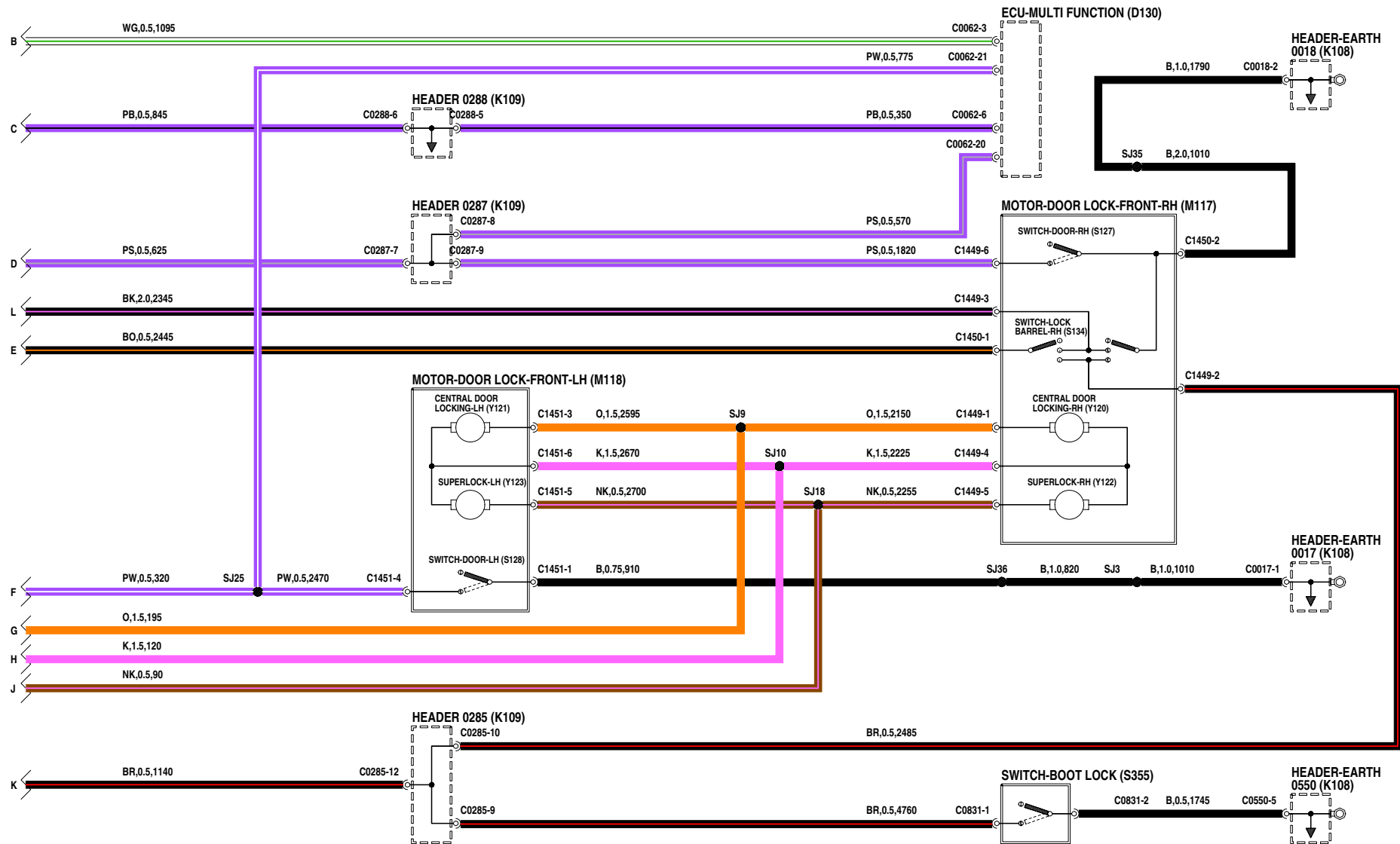
ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING (CDL)



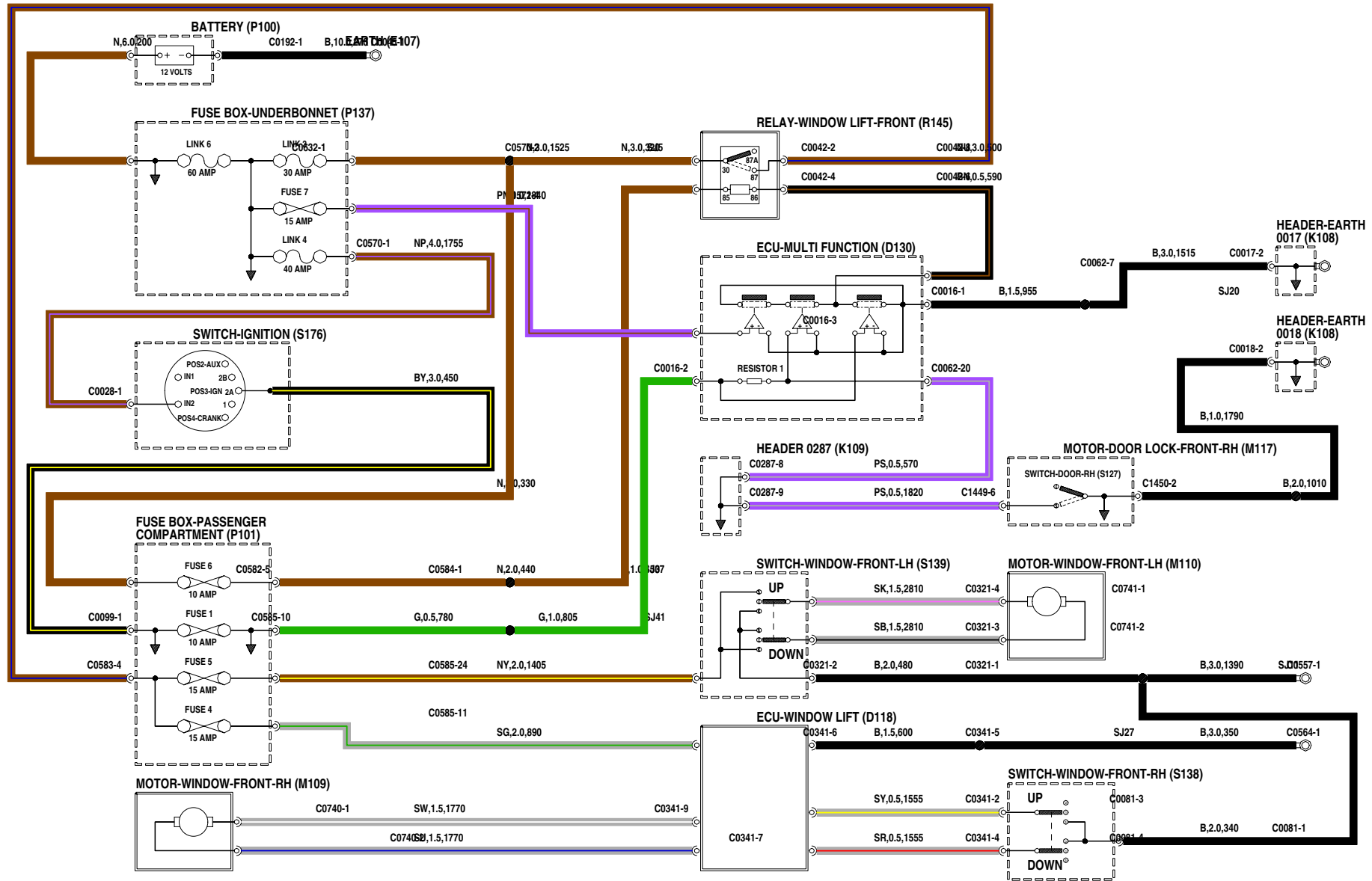
ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING (CDL)



ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING (CDL)

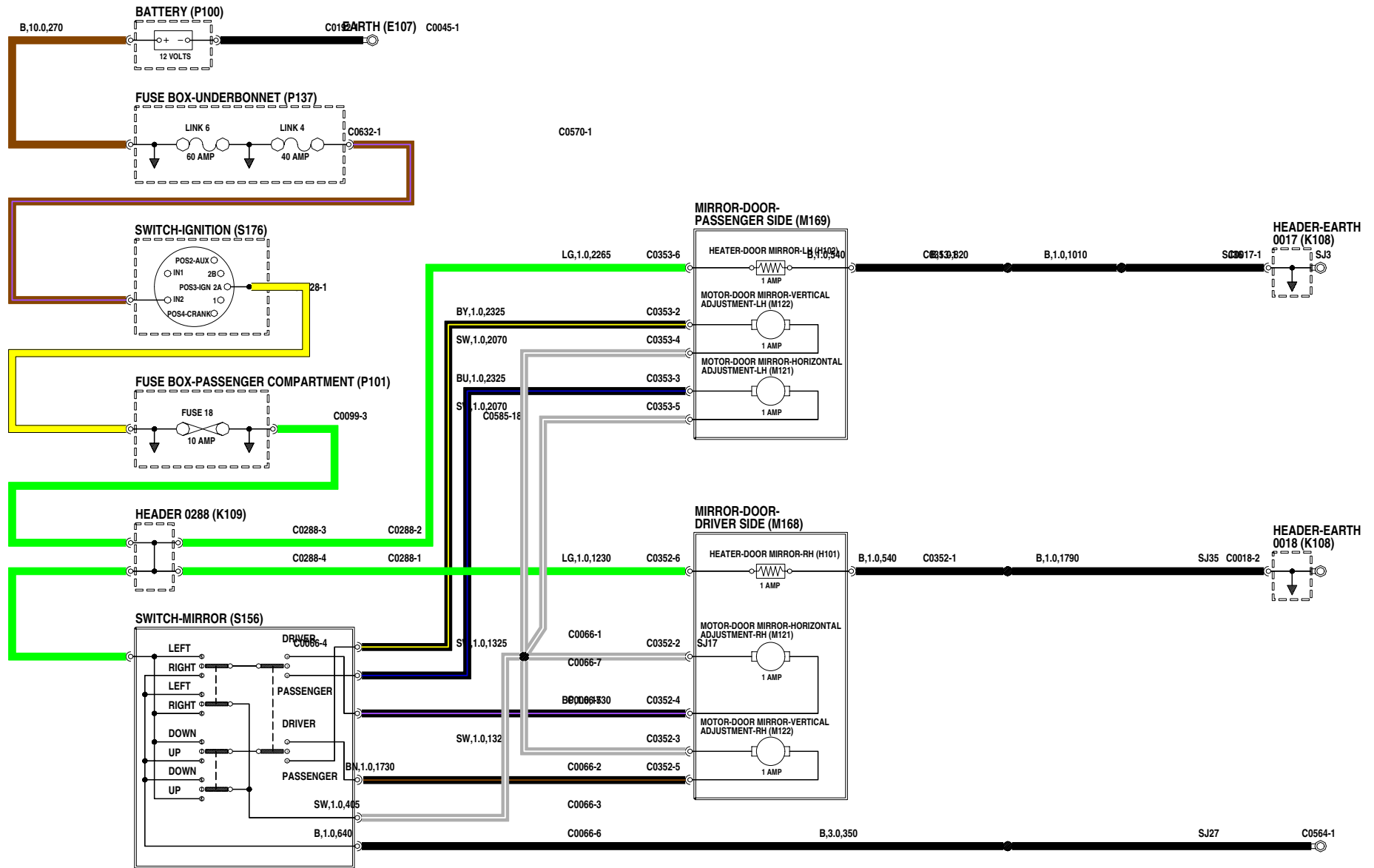


WINDOW LIFT

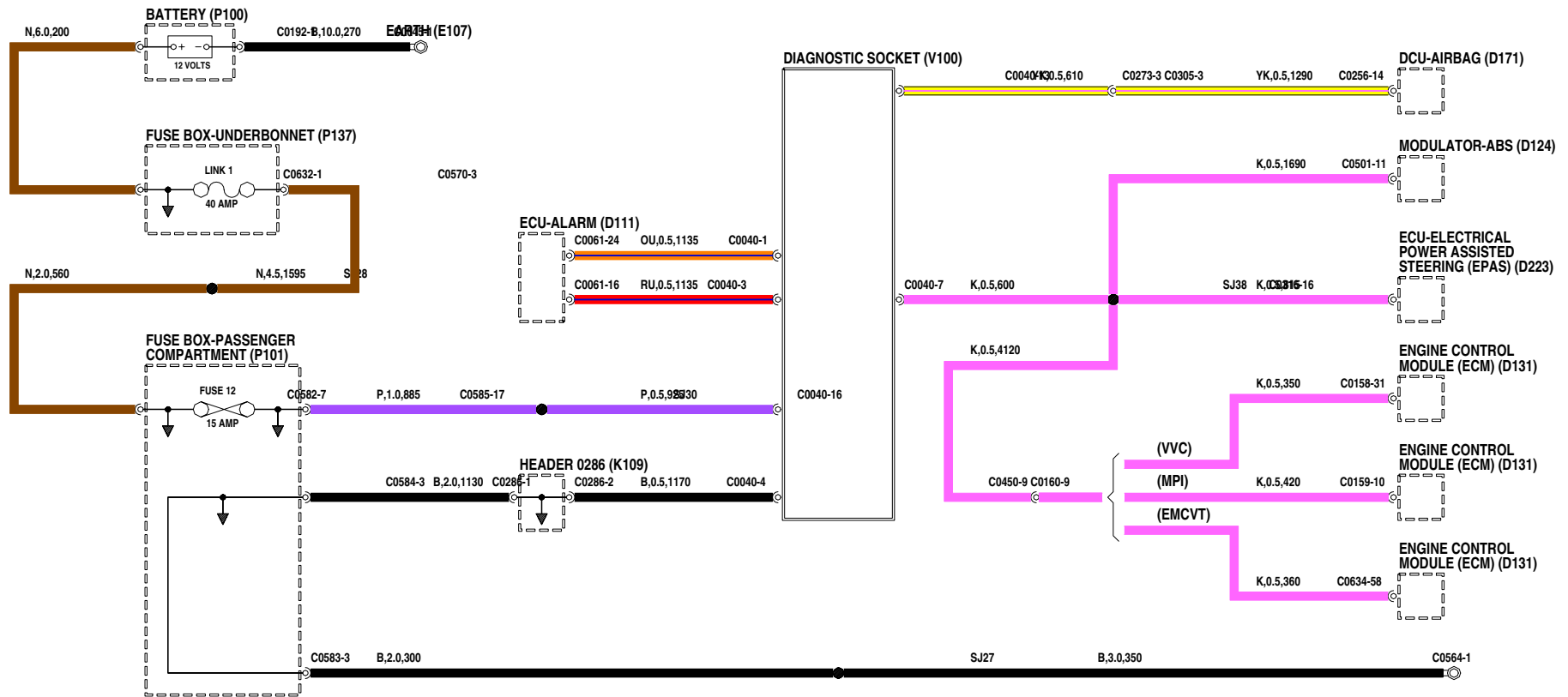


SJ35

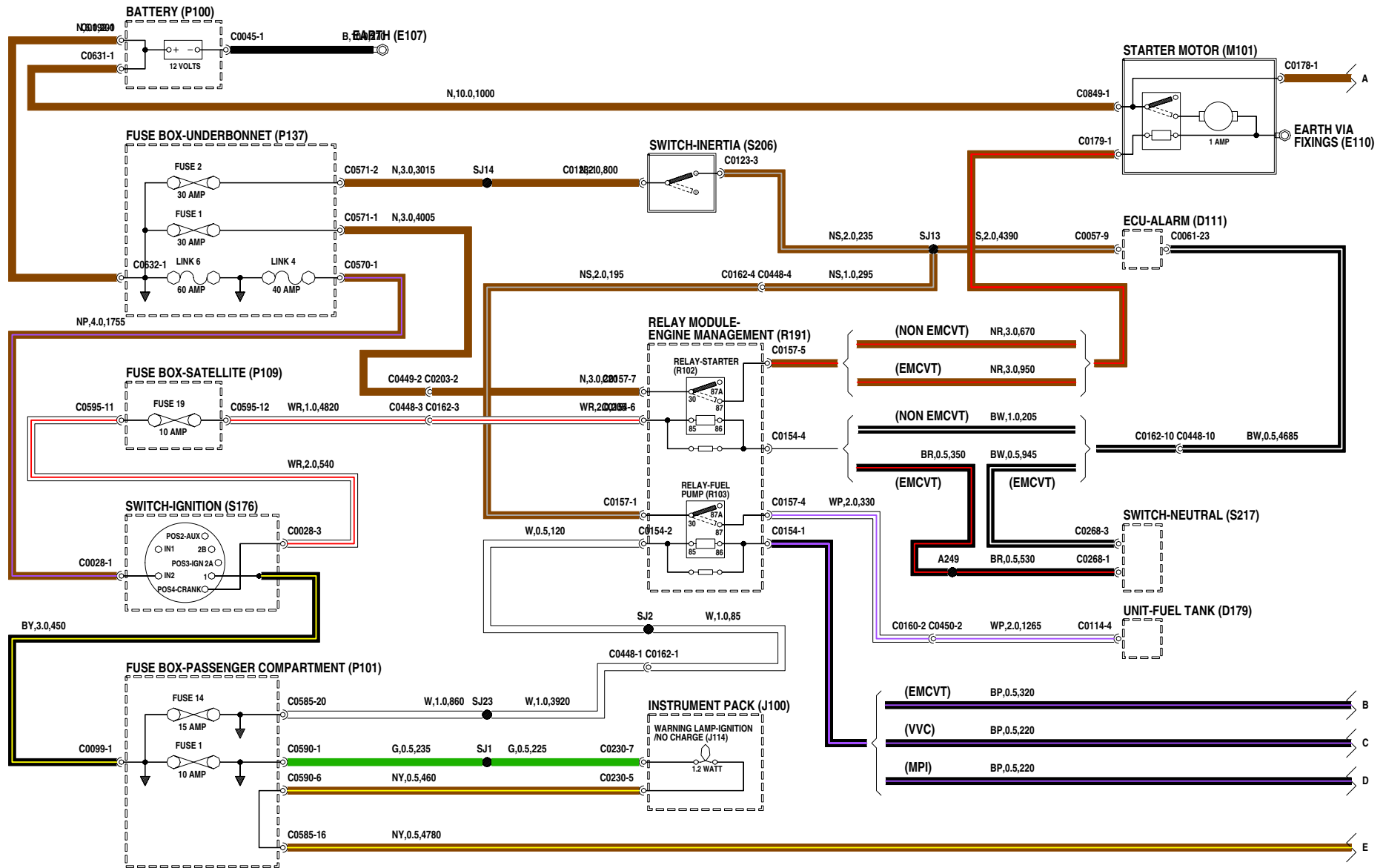
DOOR MIRRORS



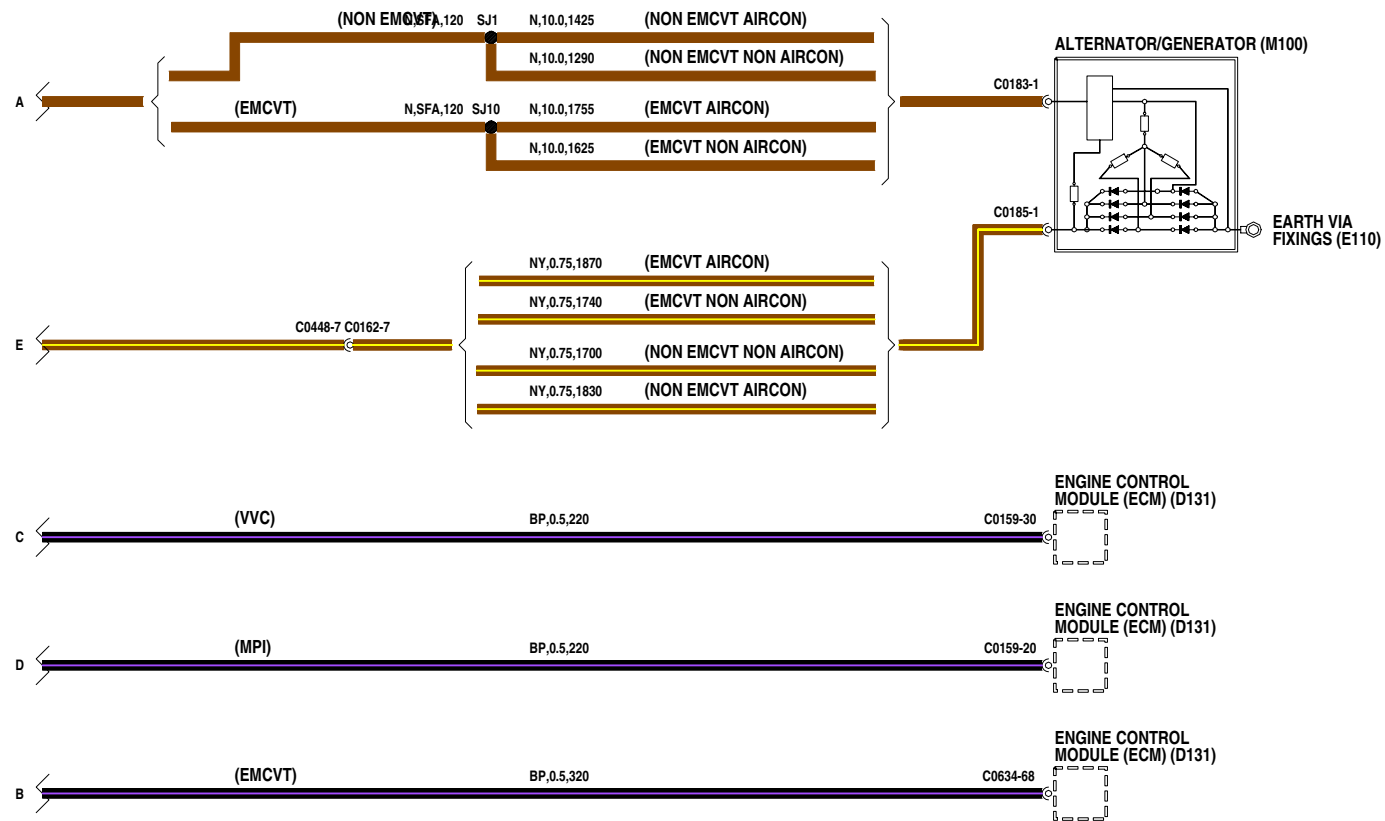
DIAGNOSTIC SOCKET



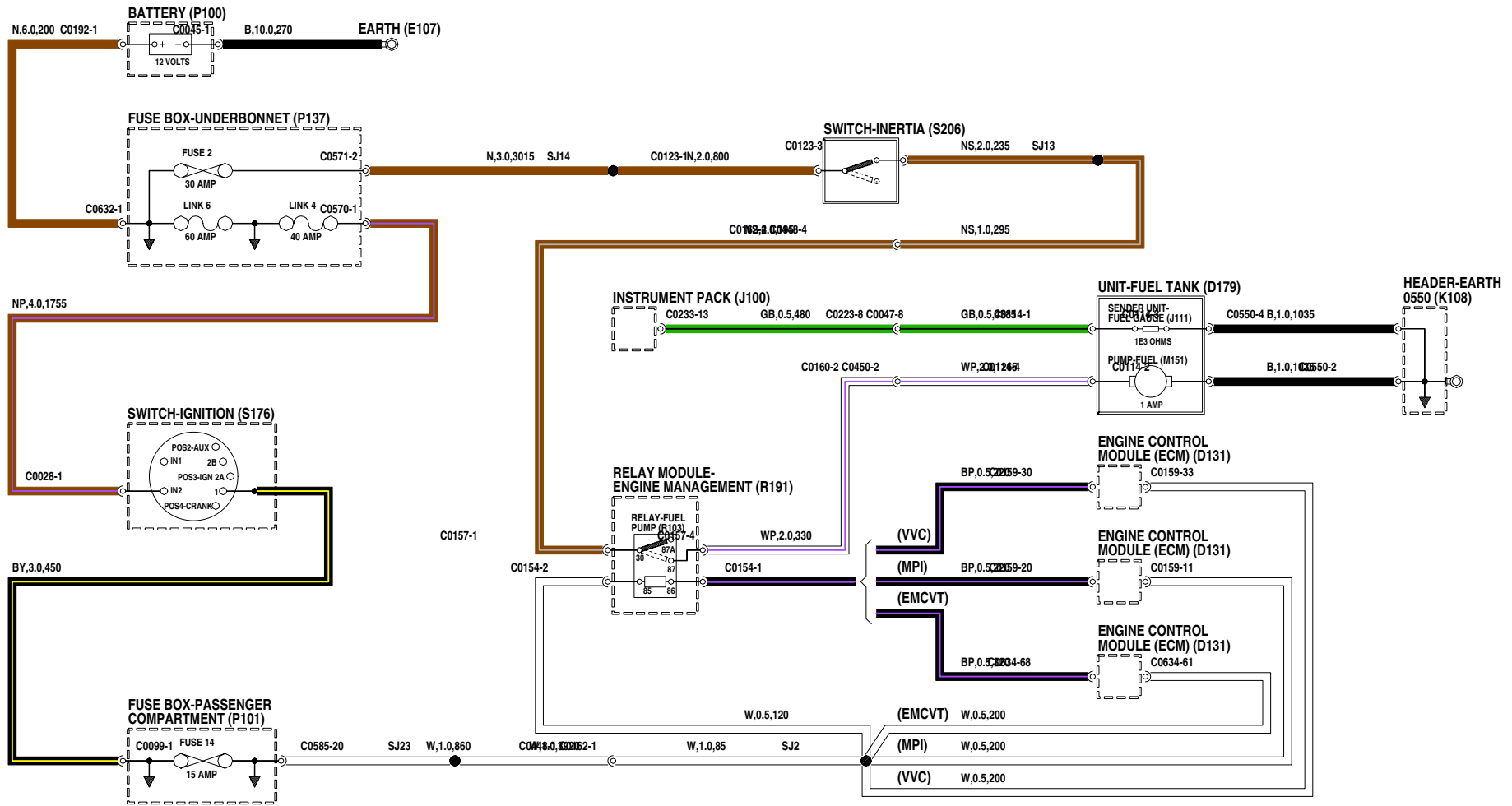
STARTING AND CHARGING



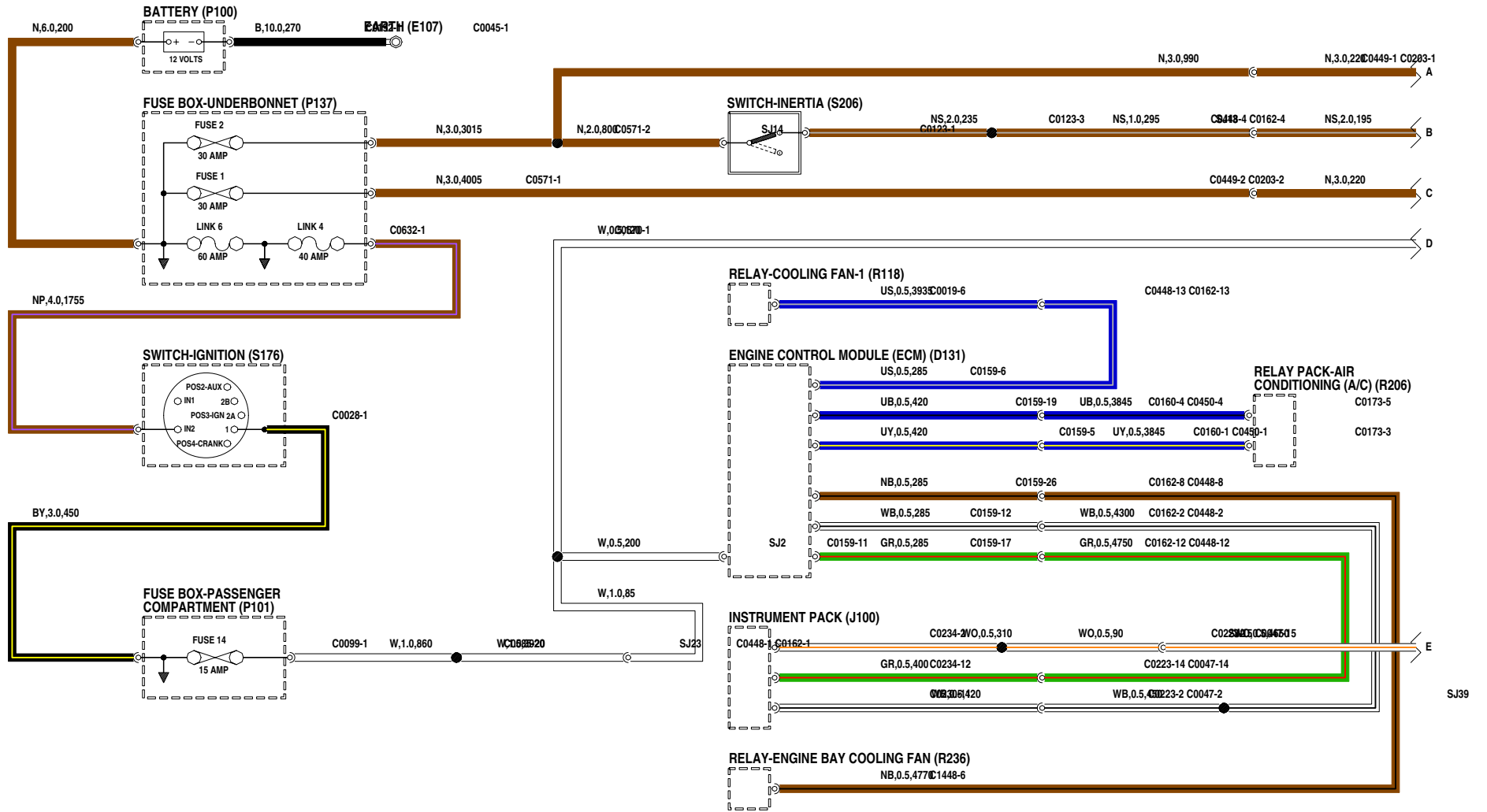
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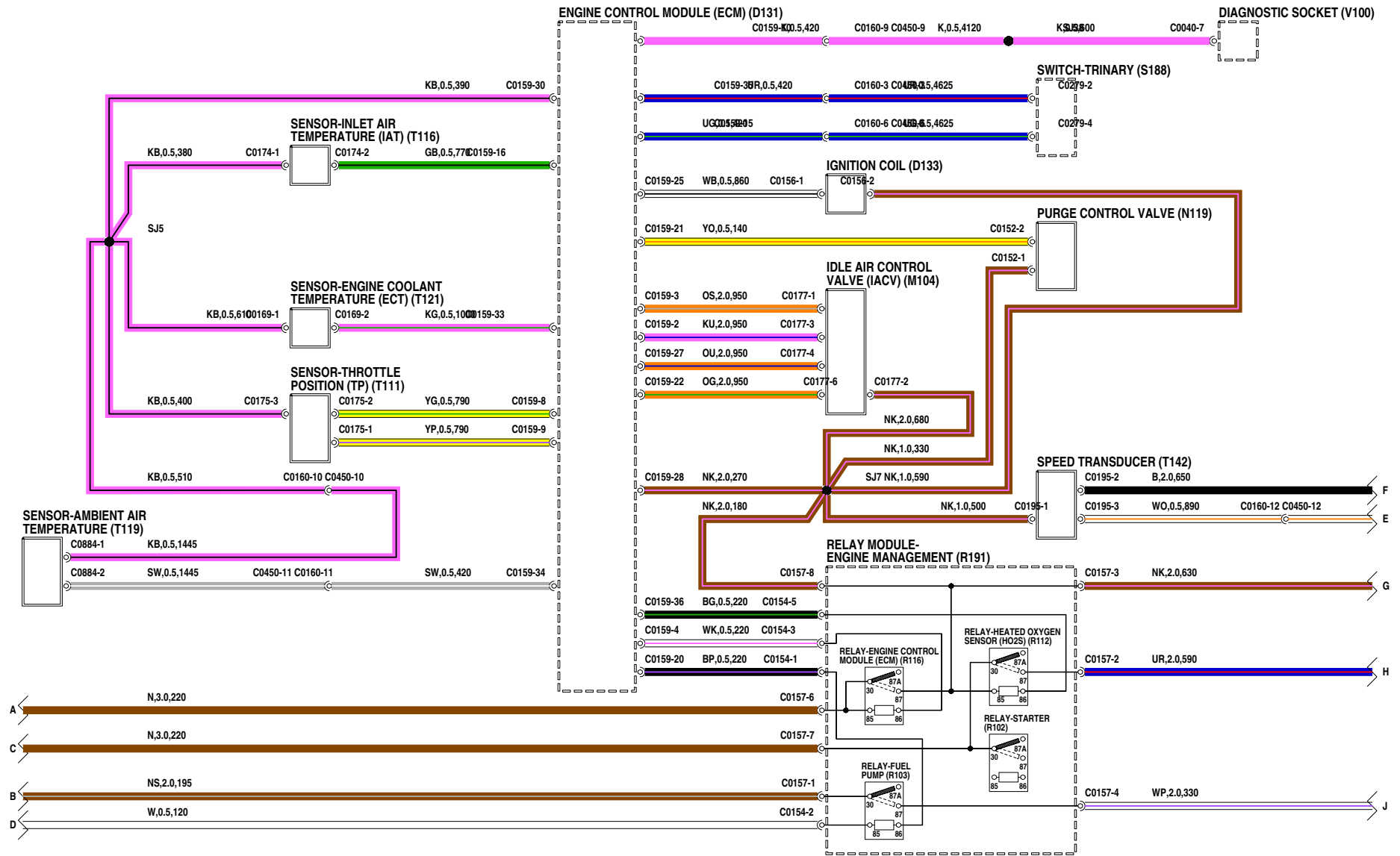
FUEL PUMP



ENGINE MANAGEMENT MPI

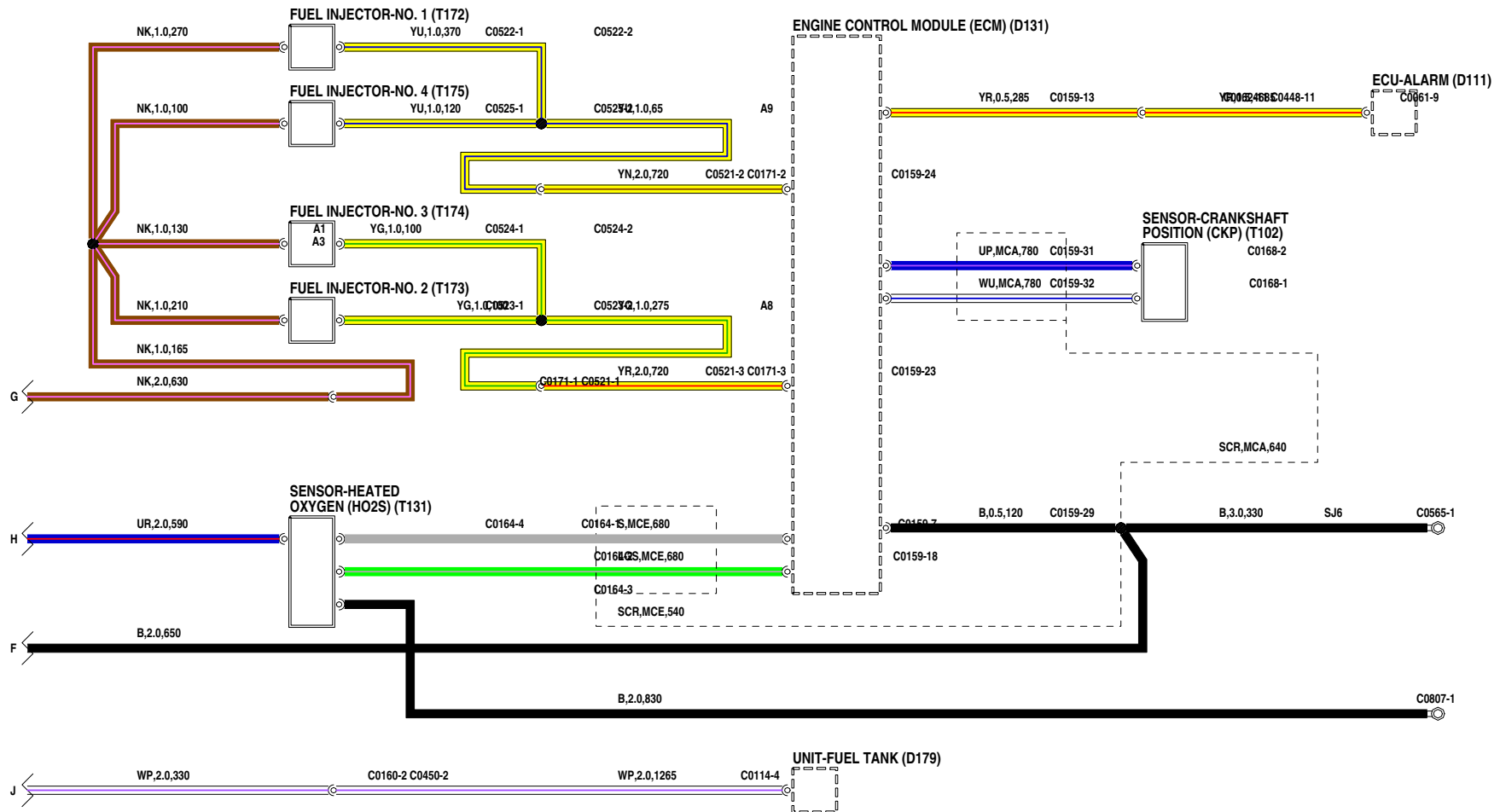


ENGINE MANAGEMENT MPI

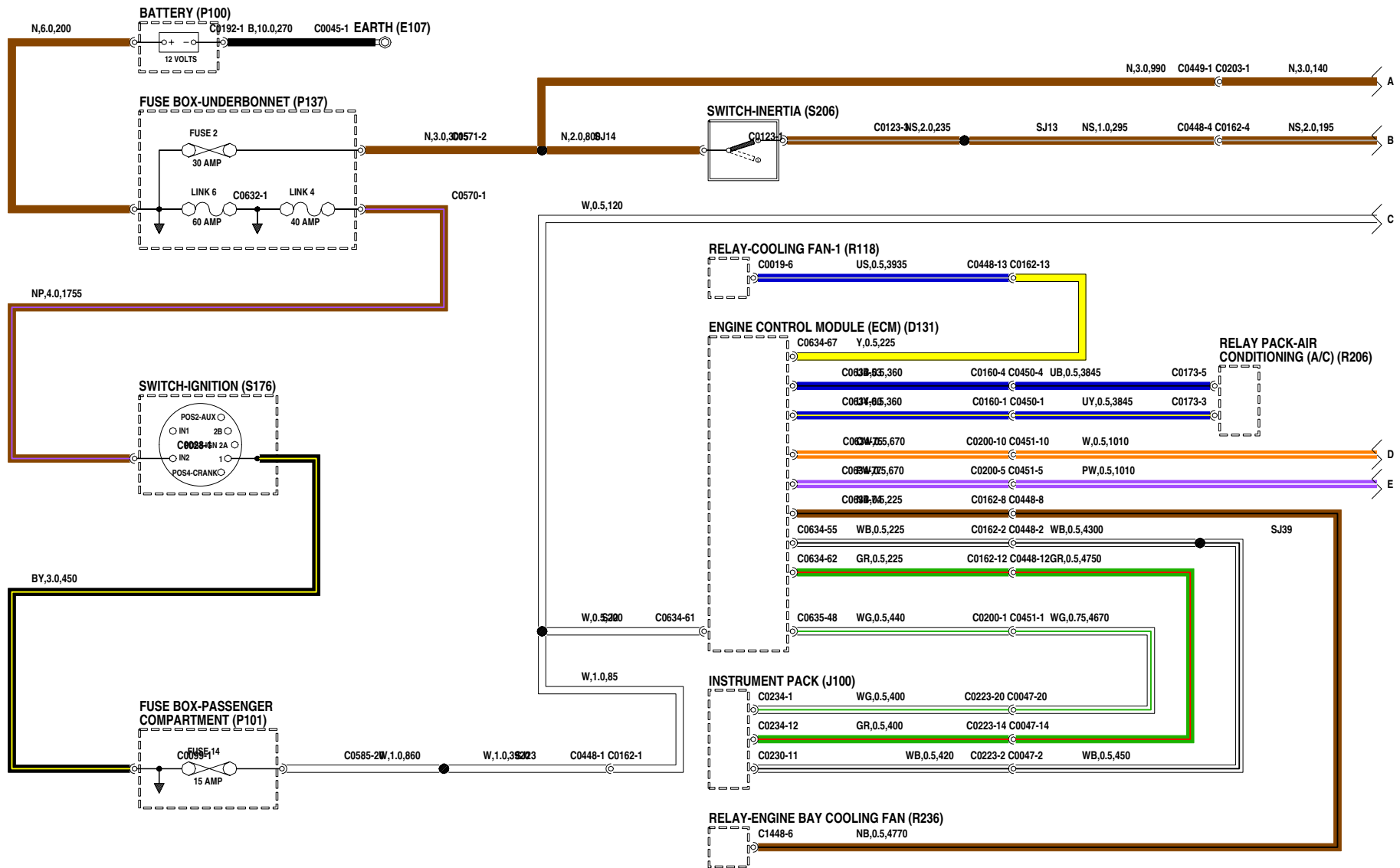


ENGINE MANAGEMENT

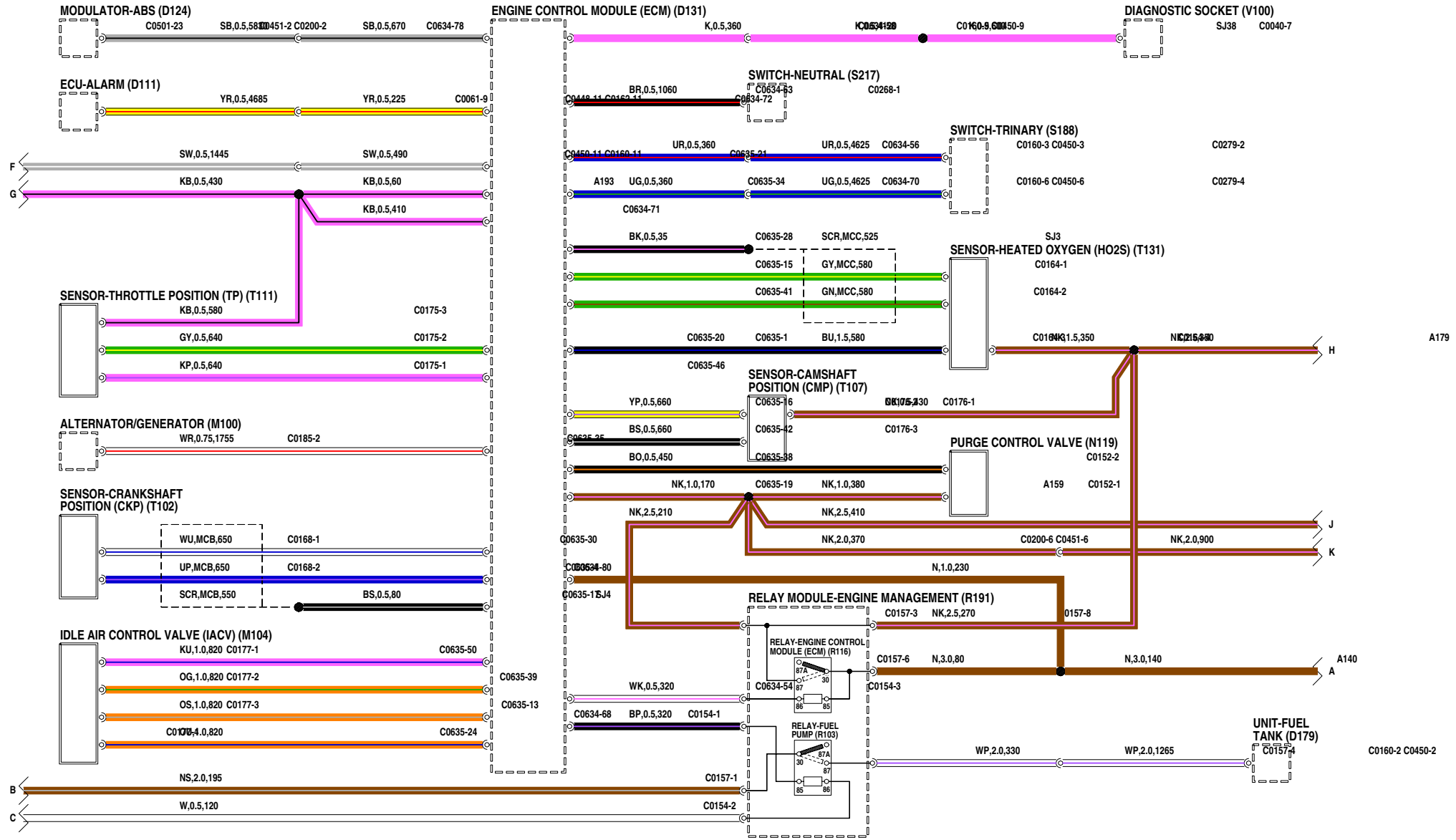
MPI



ENGINE MANAGEMENT EMCVT

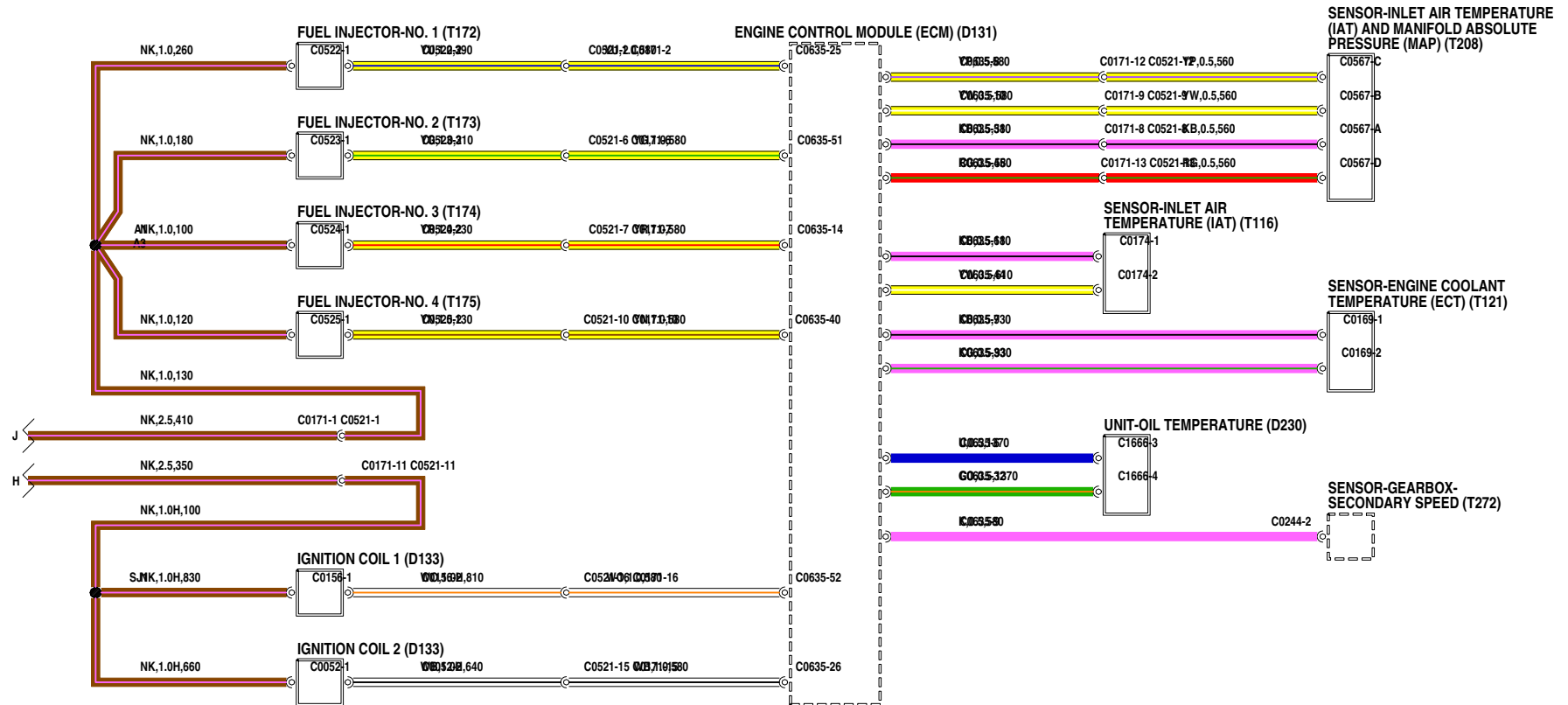


ENGINE MANAGEMENT EMCVT



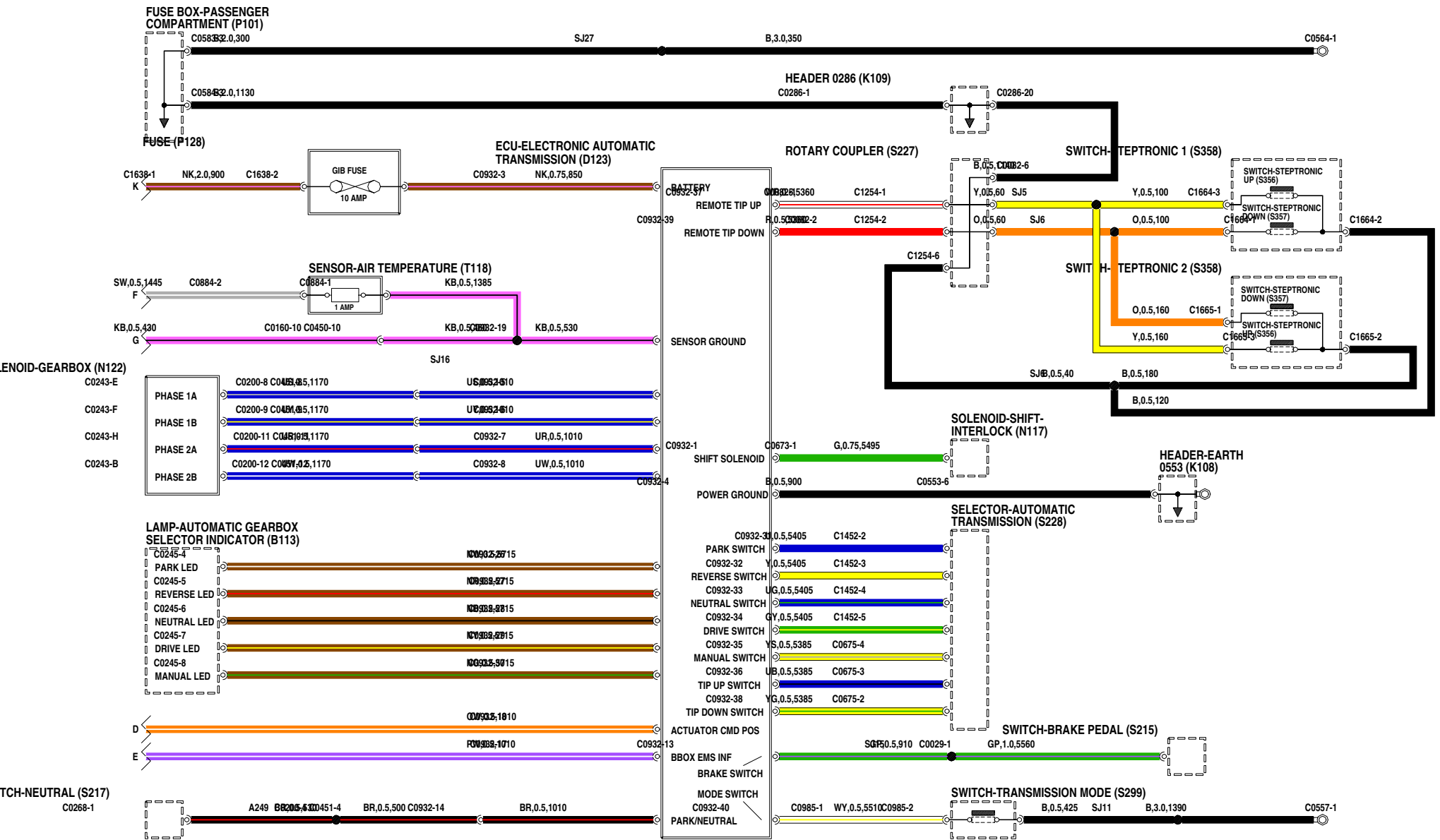
ENGINE MANAGEMENT

EMCVT



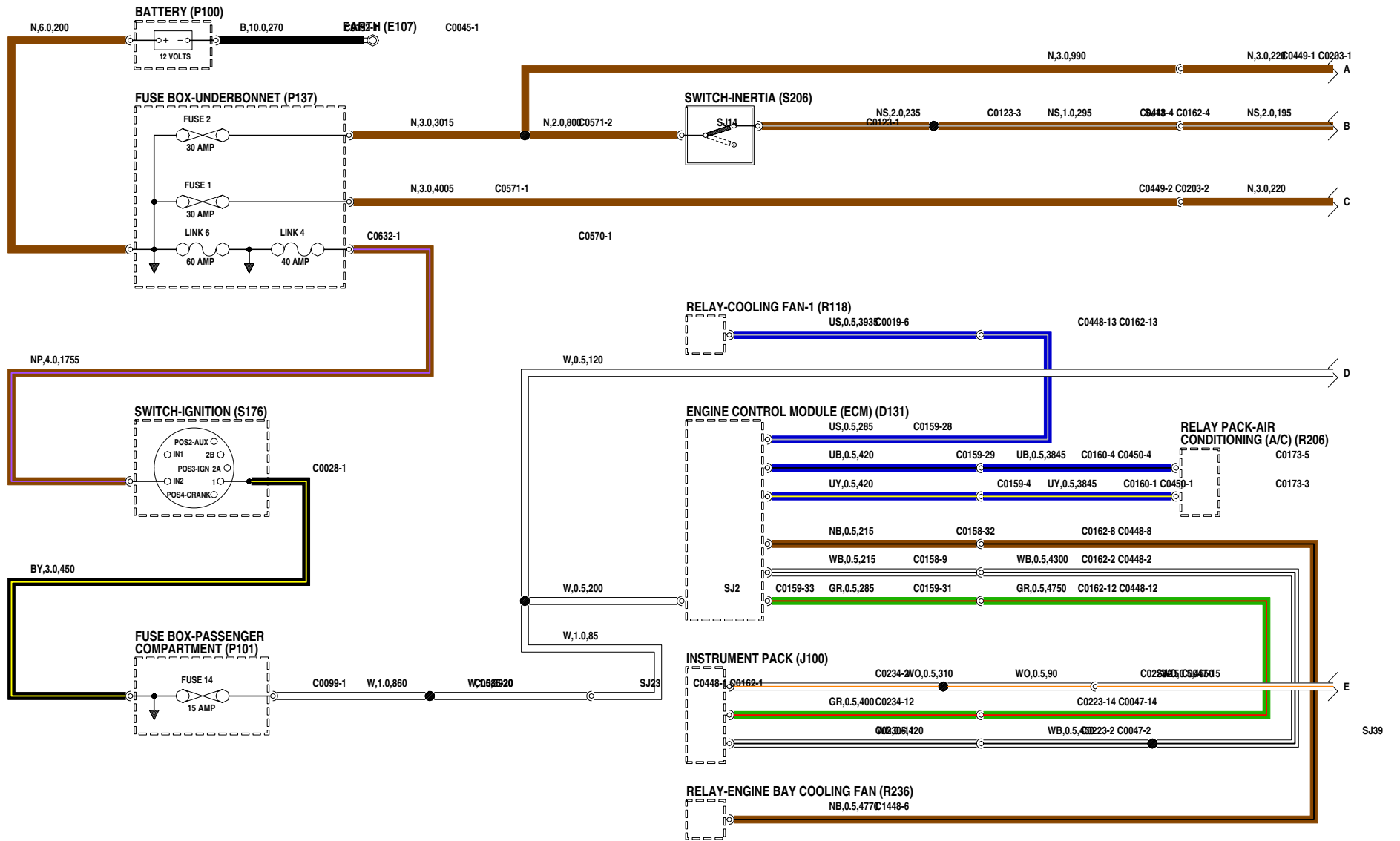
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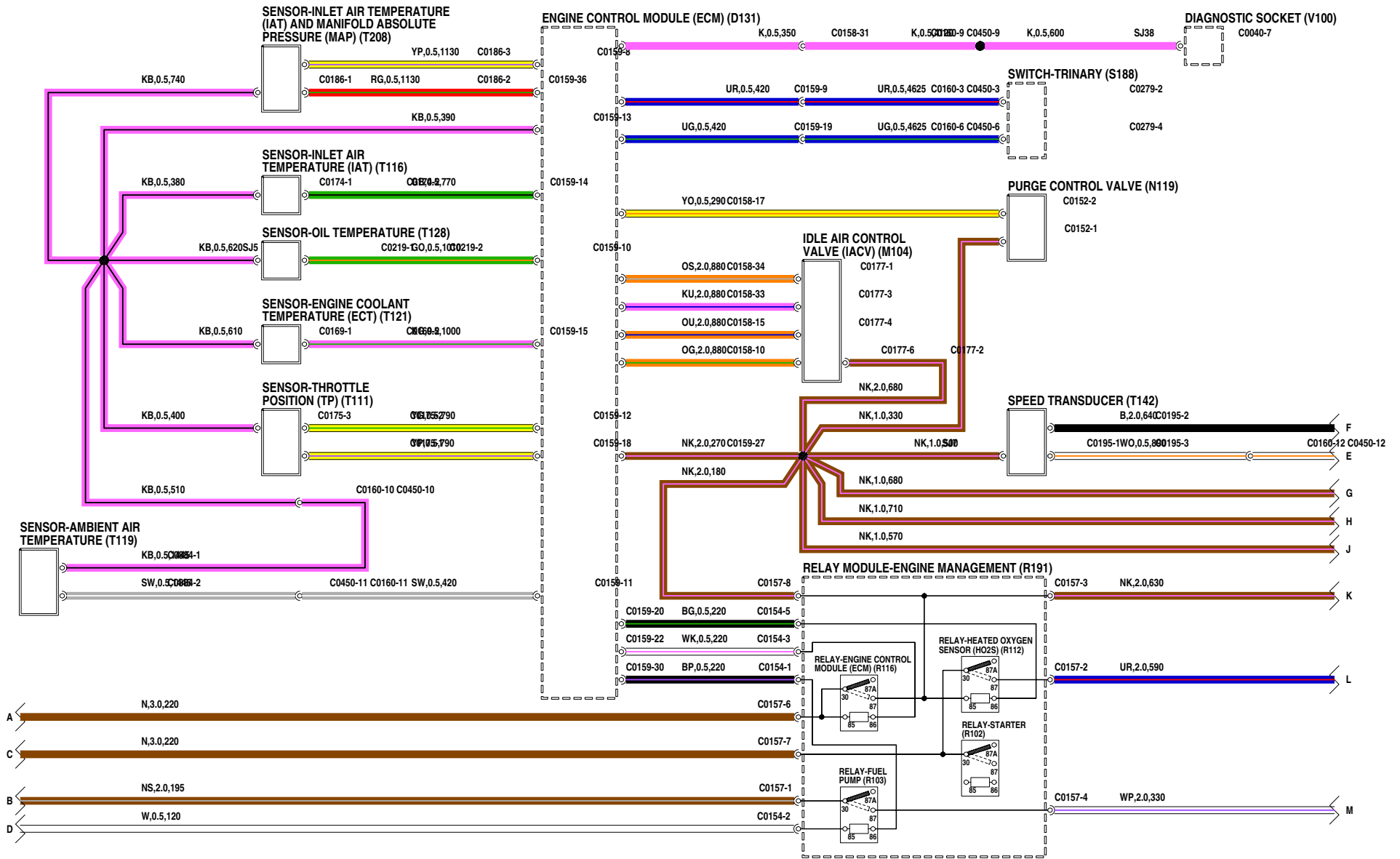
ENGINE MANAGEMENT

VVC



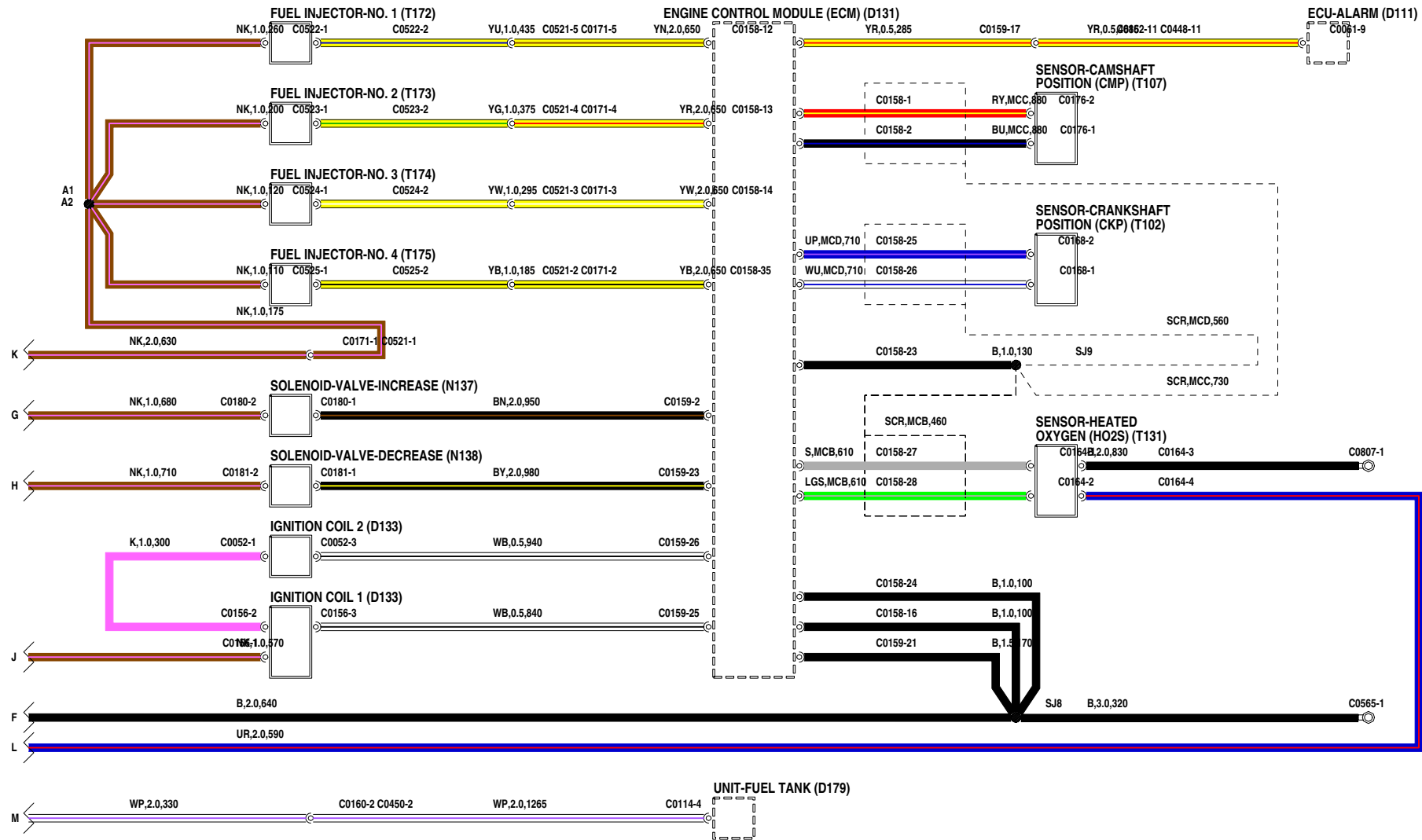
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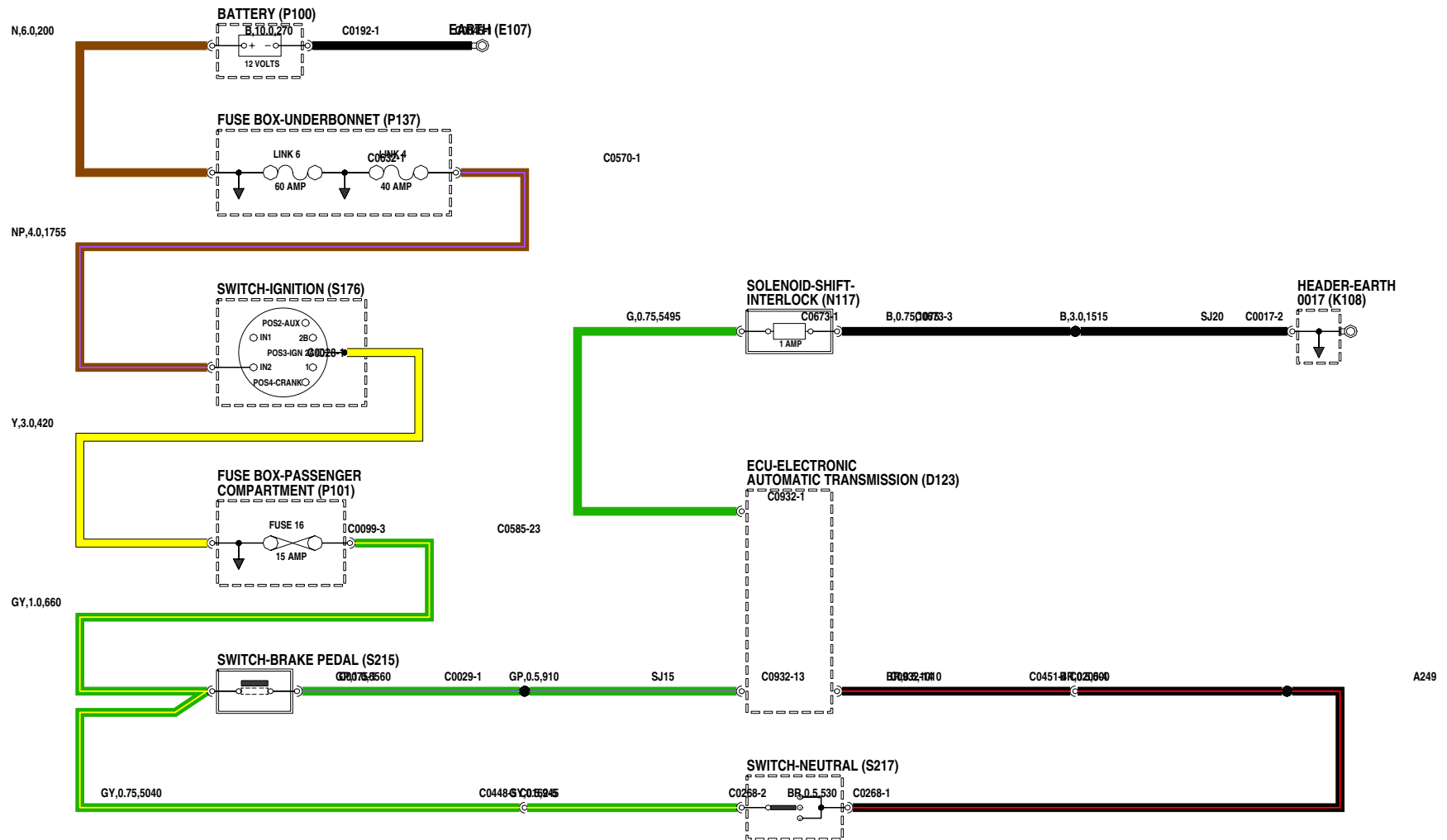


ENGINE MANAGEMENT

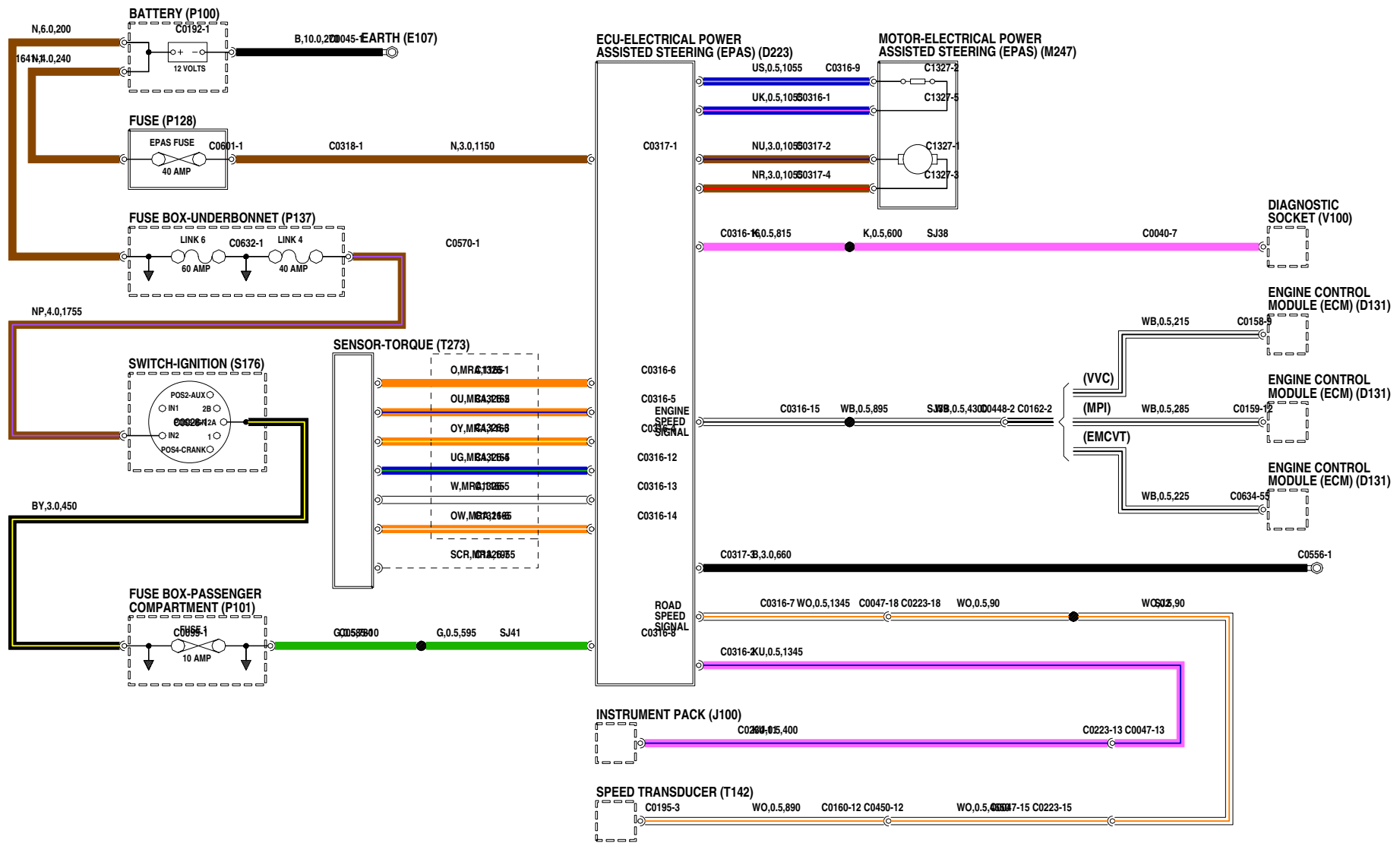
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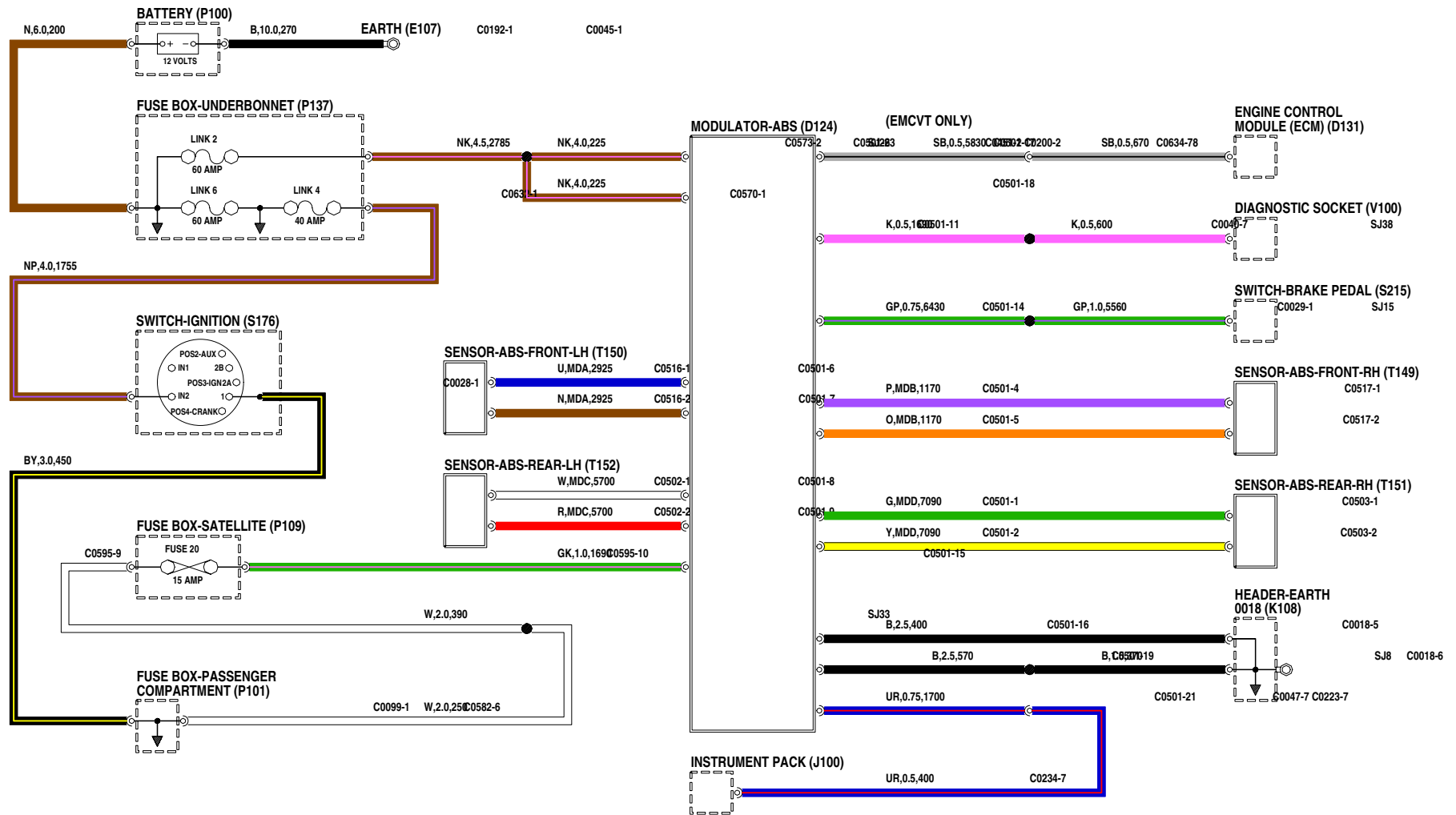
SHIFT INTERLOCK



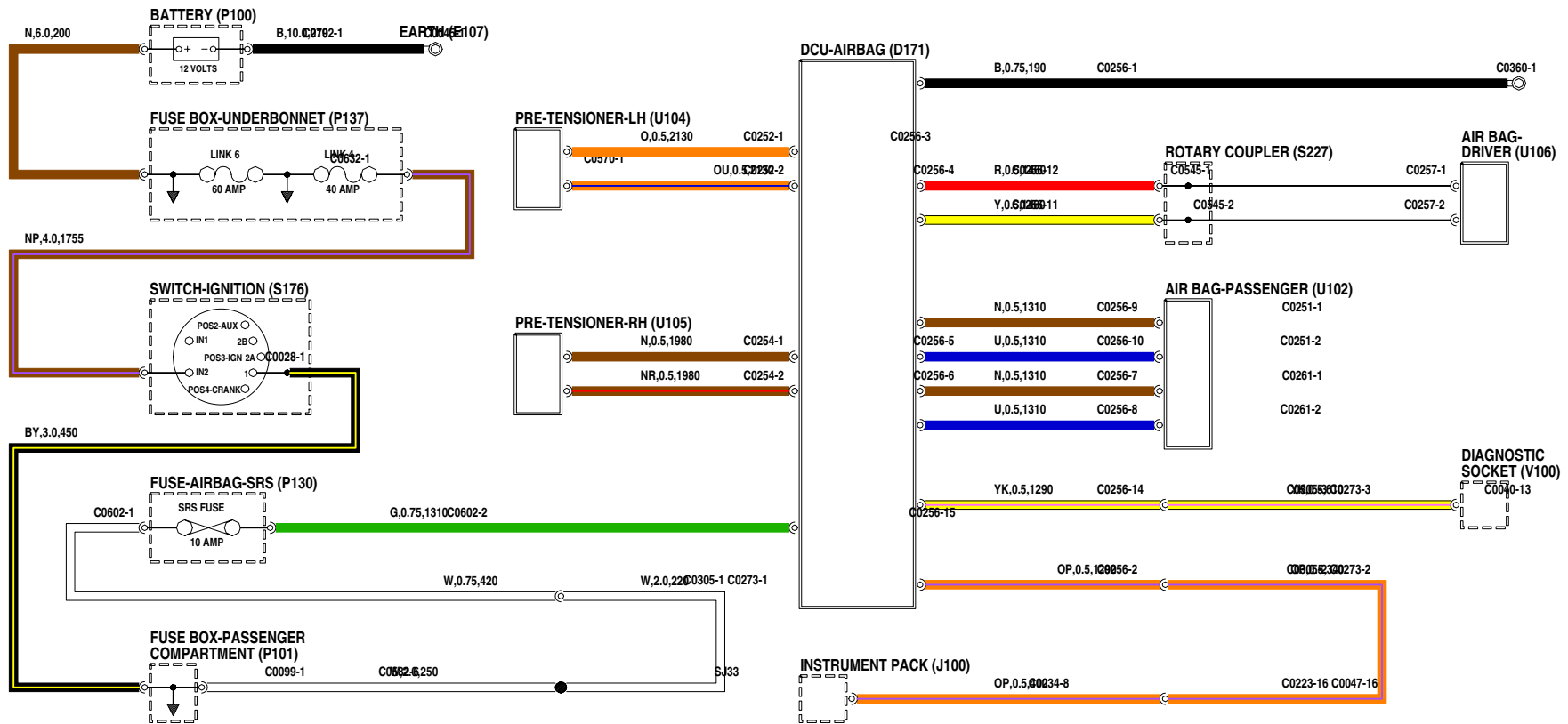
ELECTRIC POWER ASSISTED STEERING (EPAS)



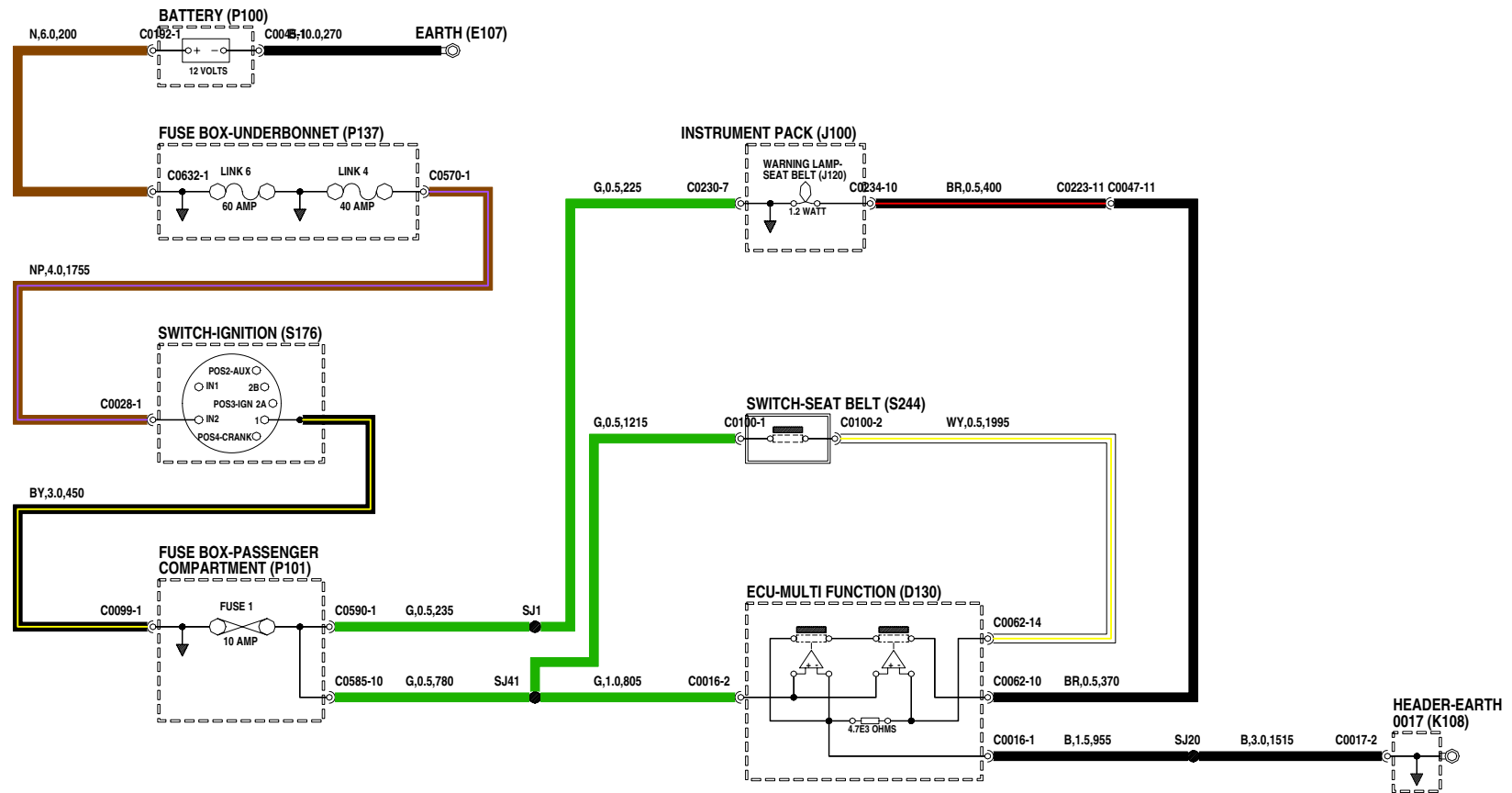
ANTI-LOCK BRAKING SYSTEM (ABS)



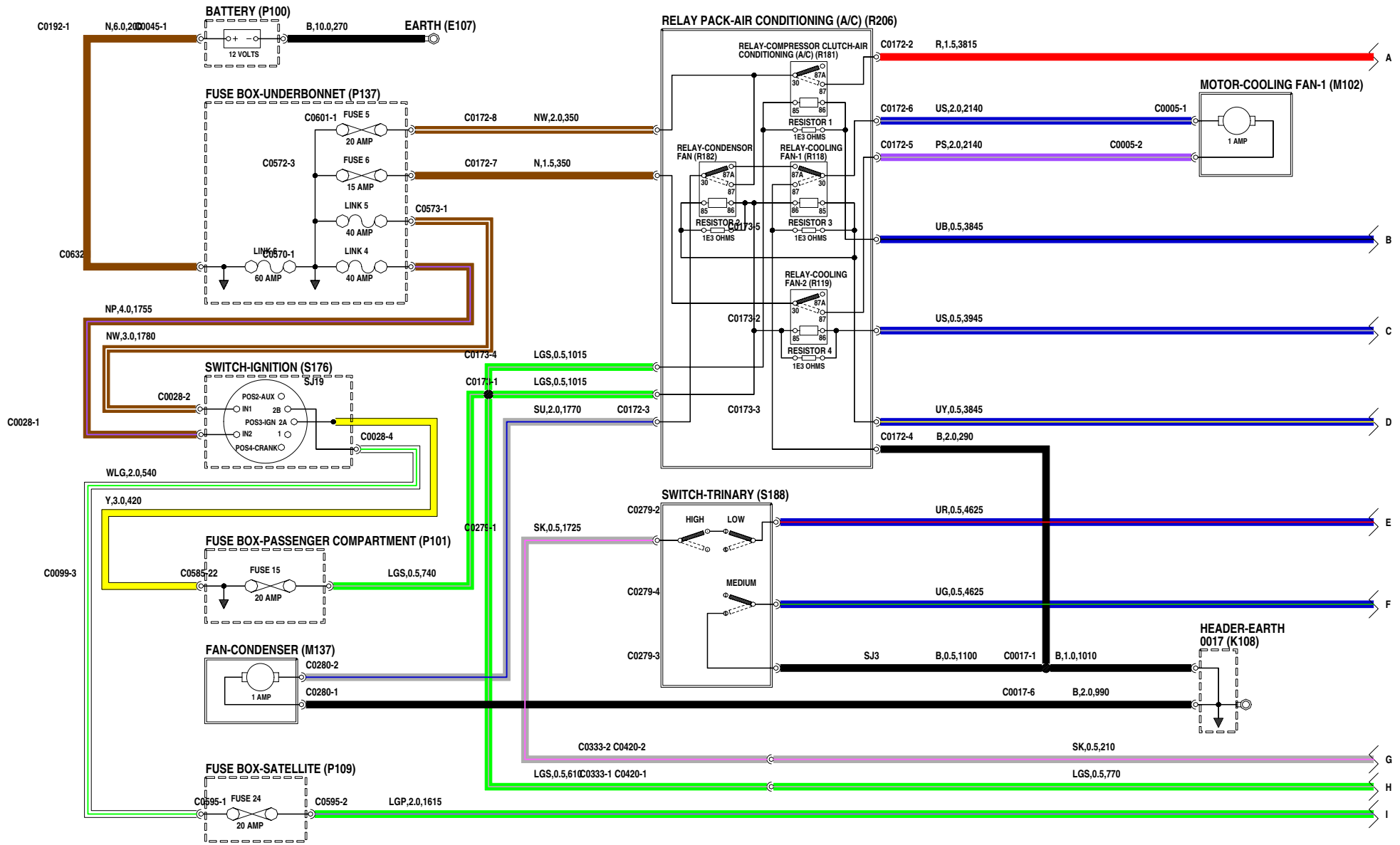
SUPPLEMENTARY RESTRAINT SYSTEM (SRS)



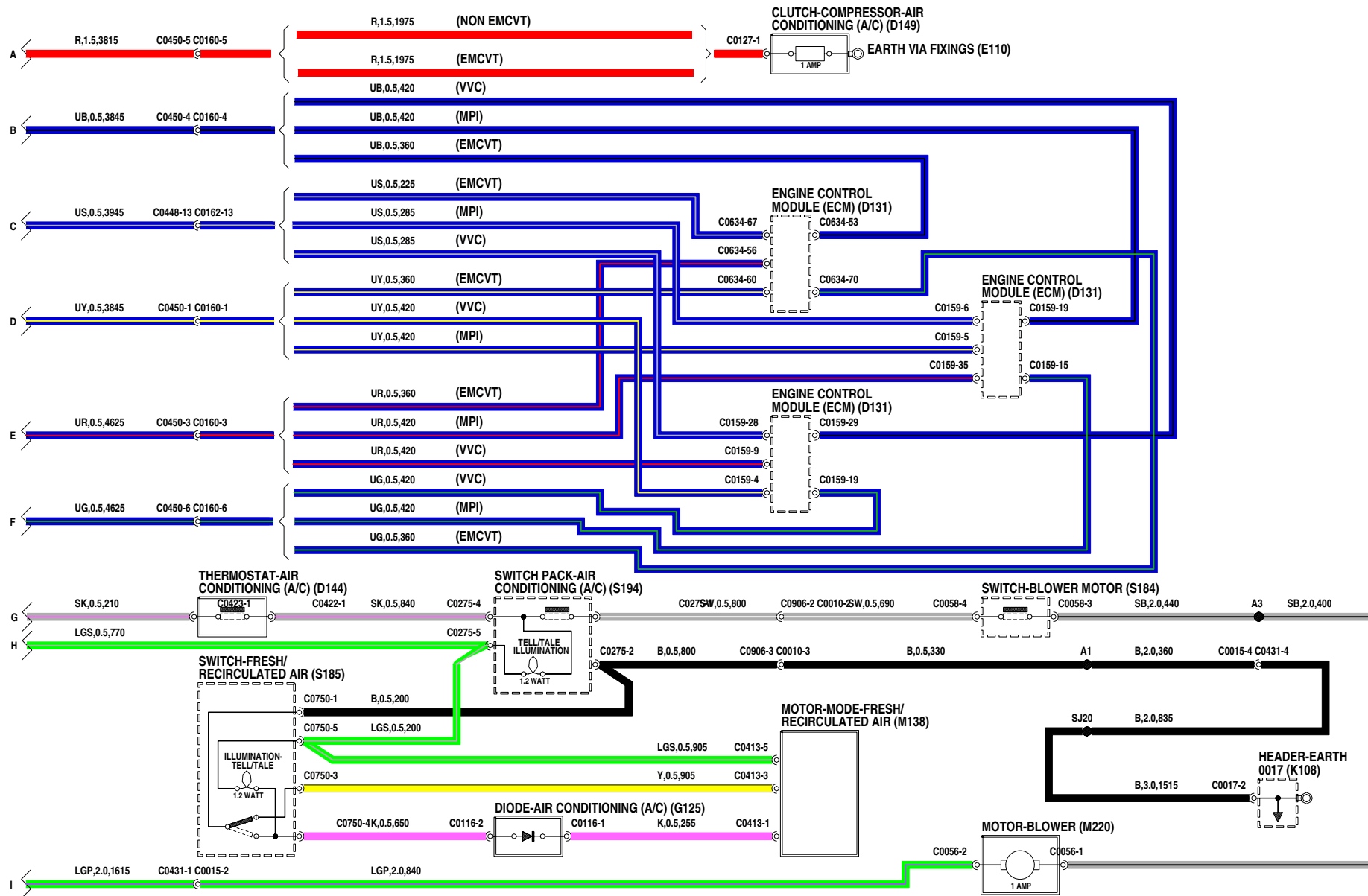
SEAT BELT WARNING



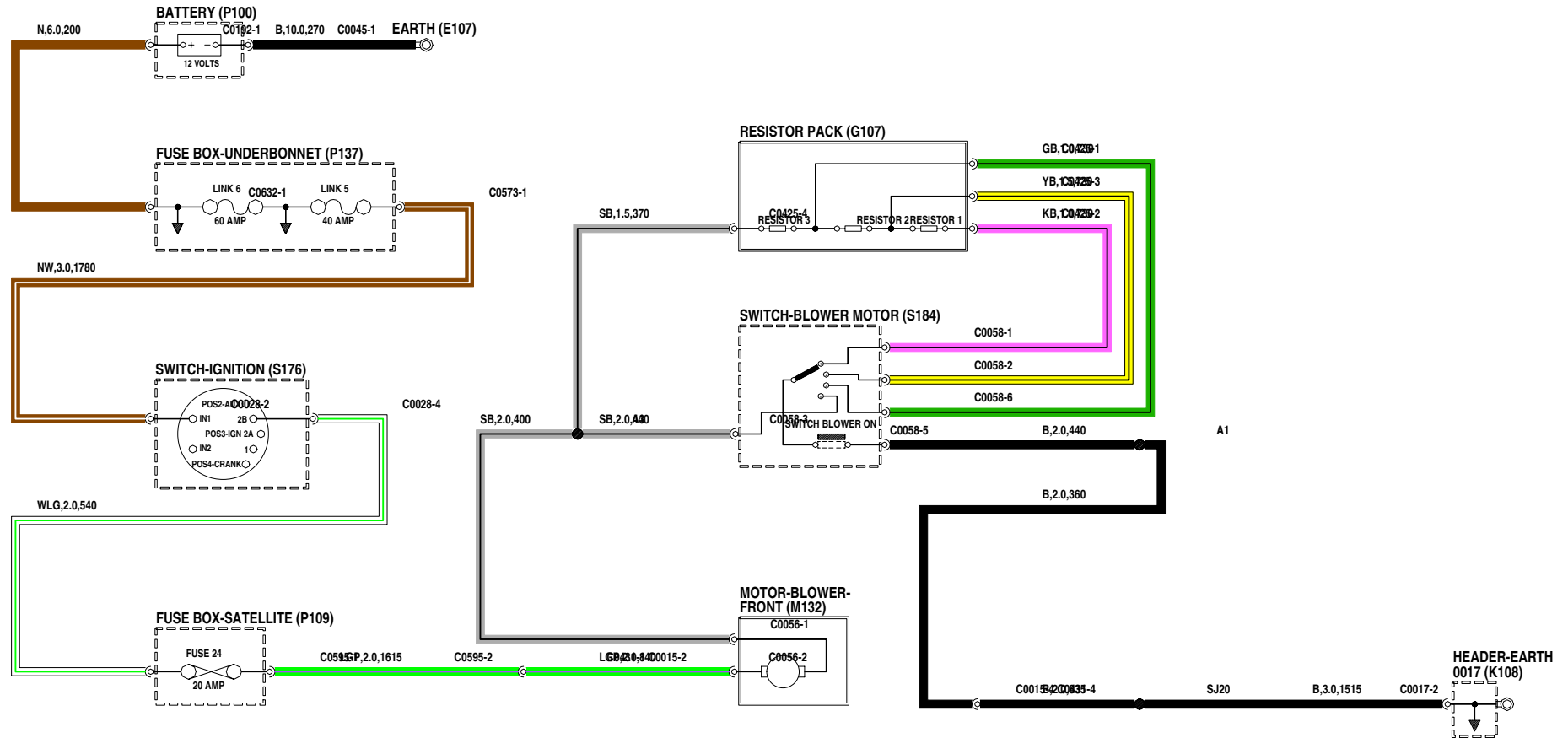
AIR CONDITIONING (A/C)



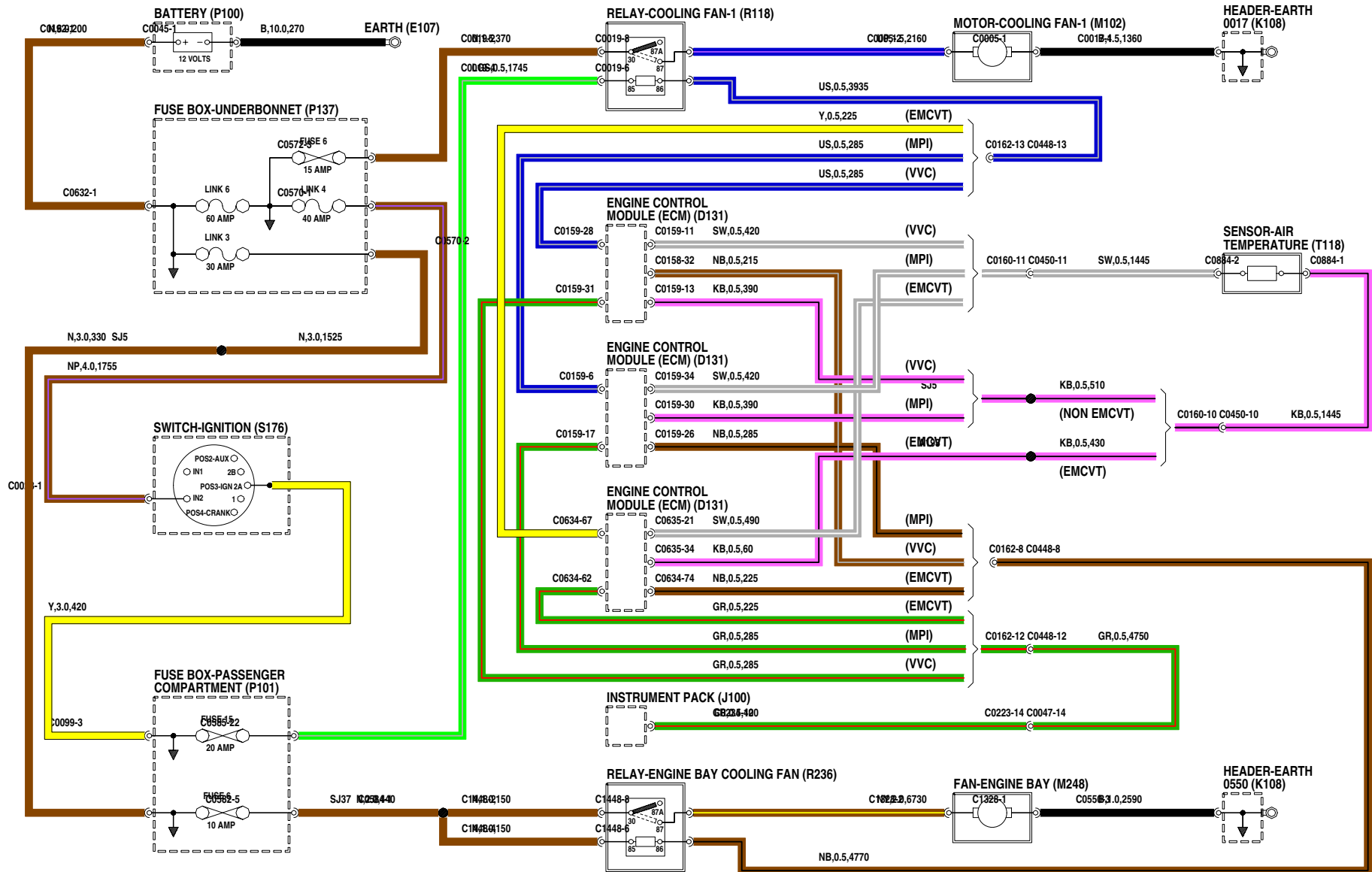
AIR CONDITIONING (A/C)



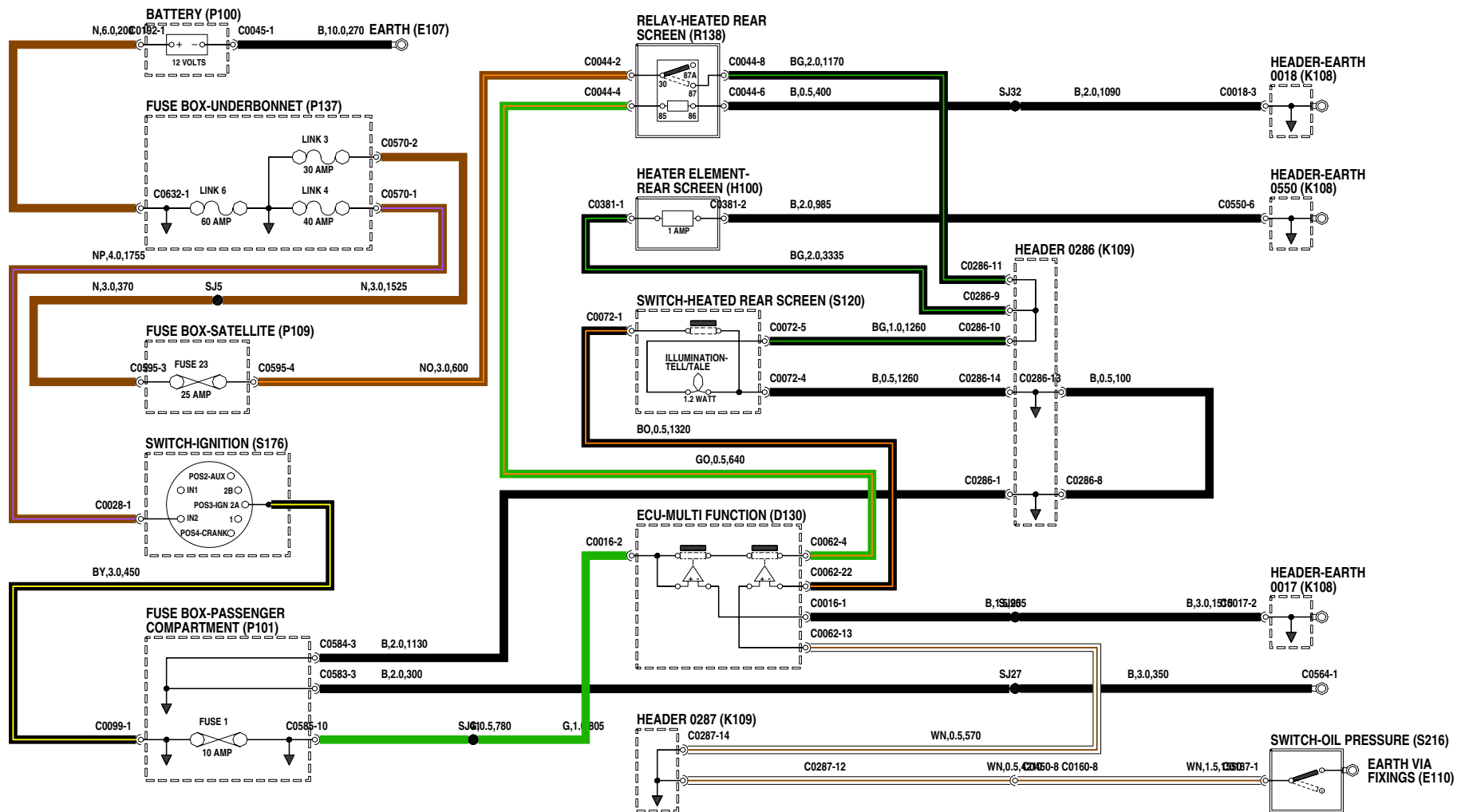
HEATER BLOWER



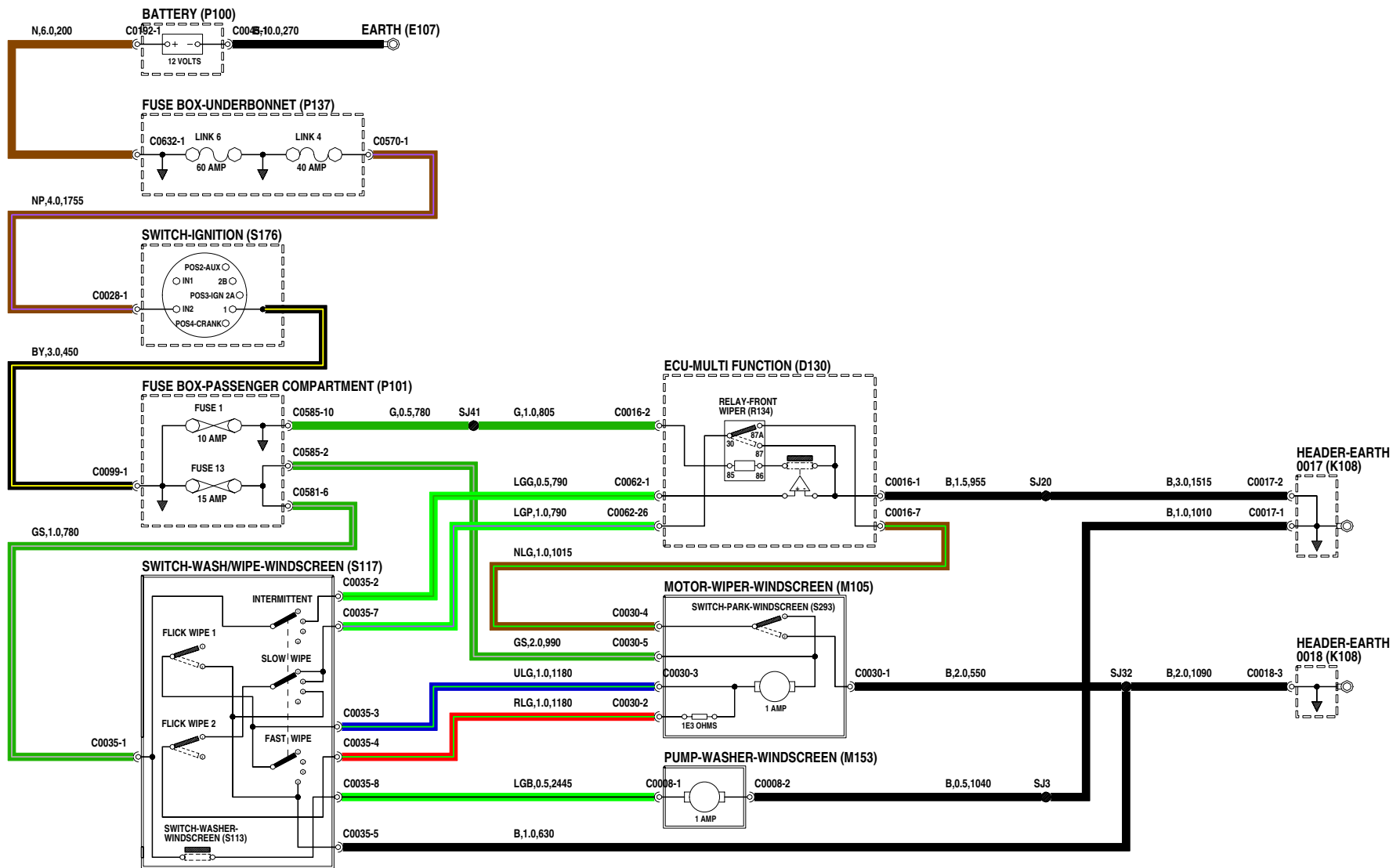
COOLING FANS



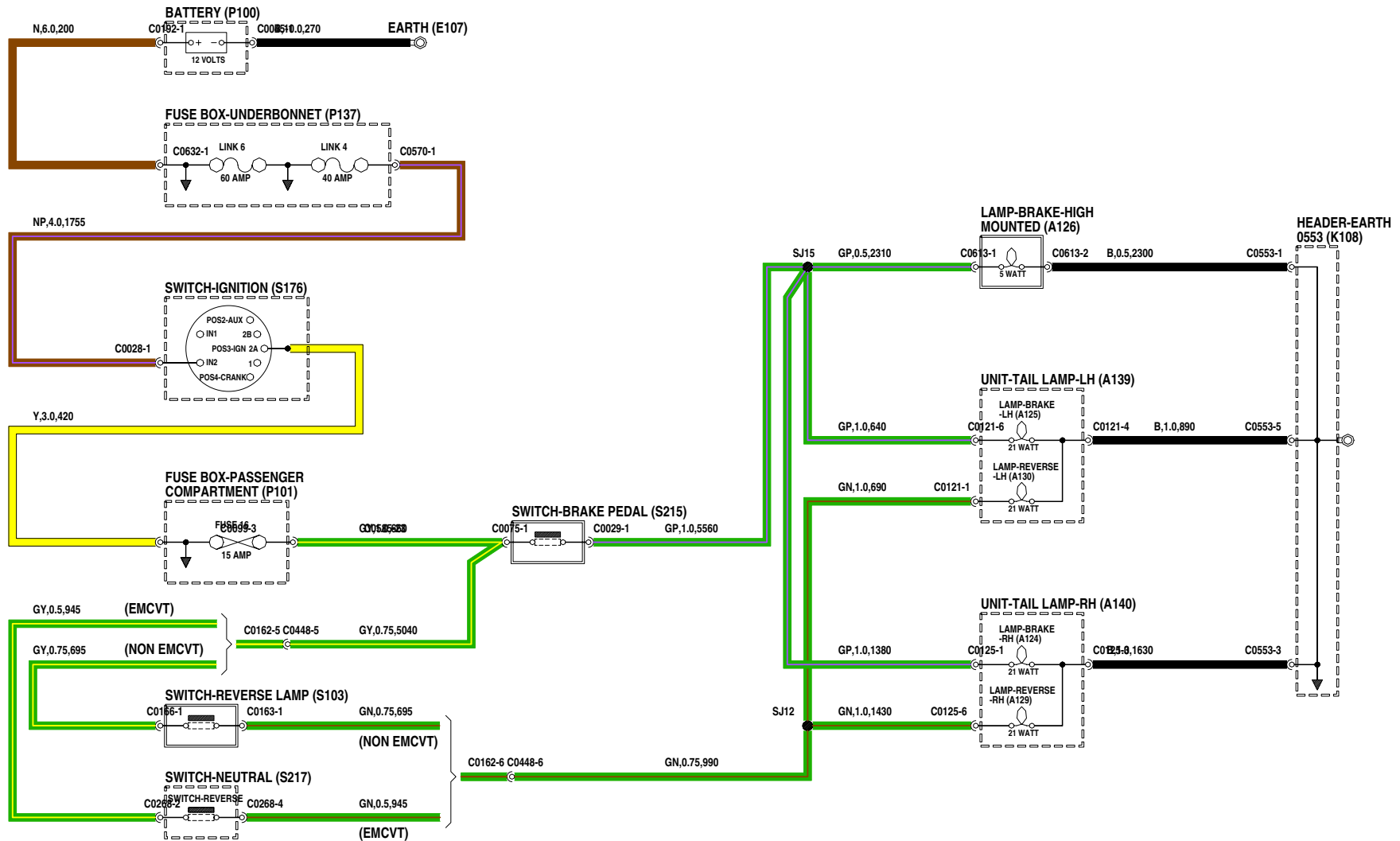
HEATED REAR WINDOW (HRW)



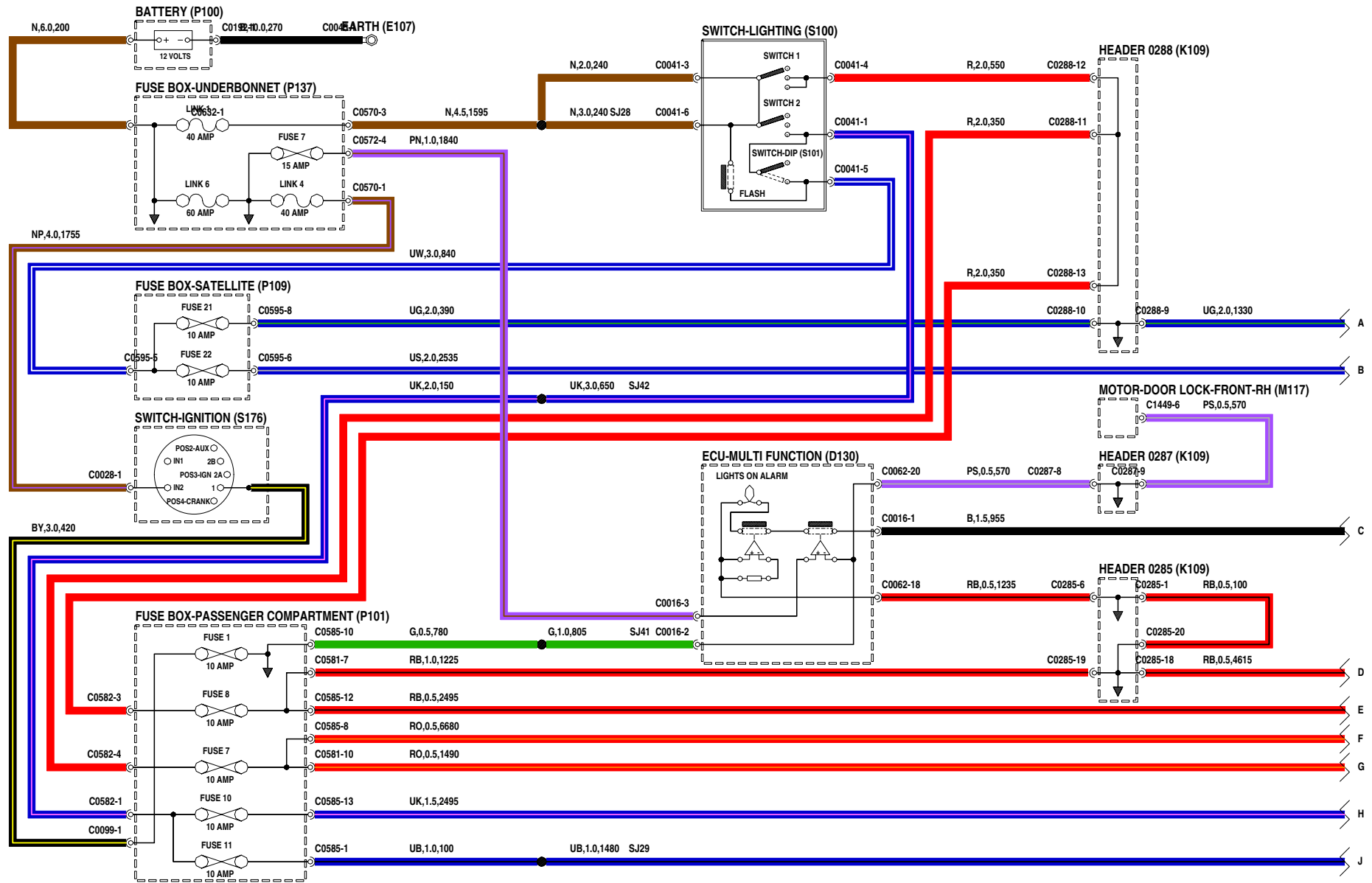
WIPERS AND WASHERS



EXTERIOR LAMPS BRAKE AND REVERSE LAMPS

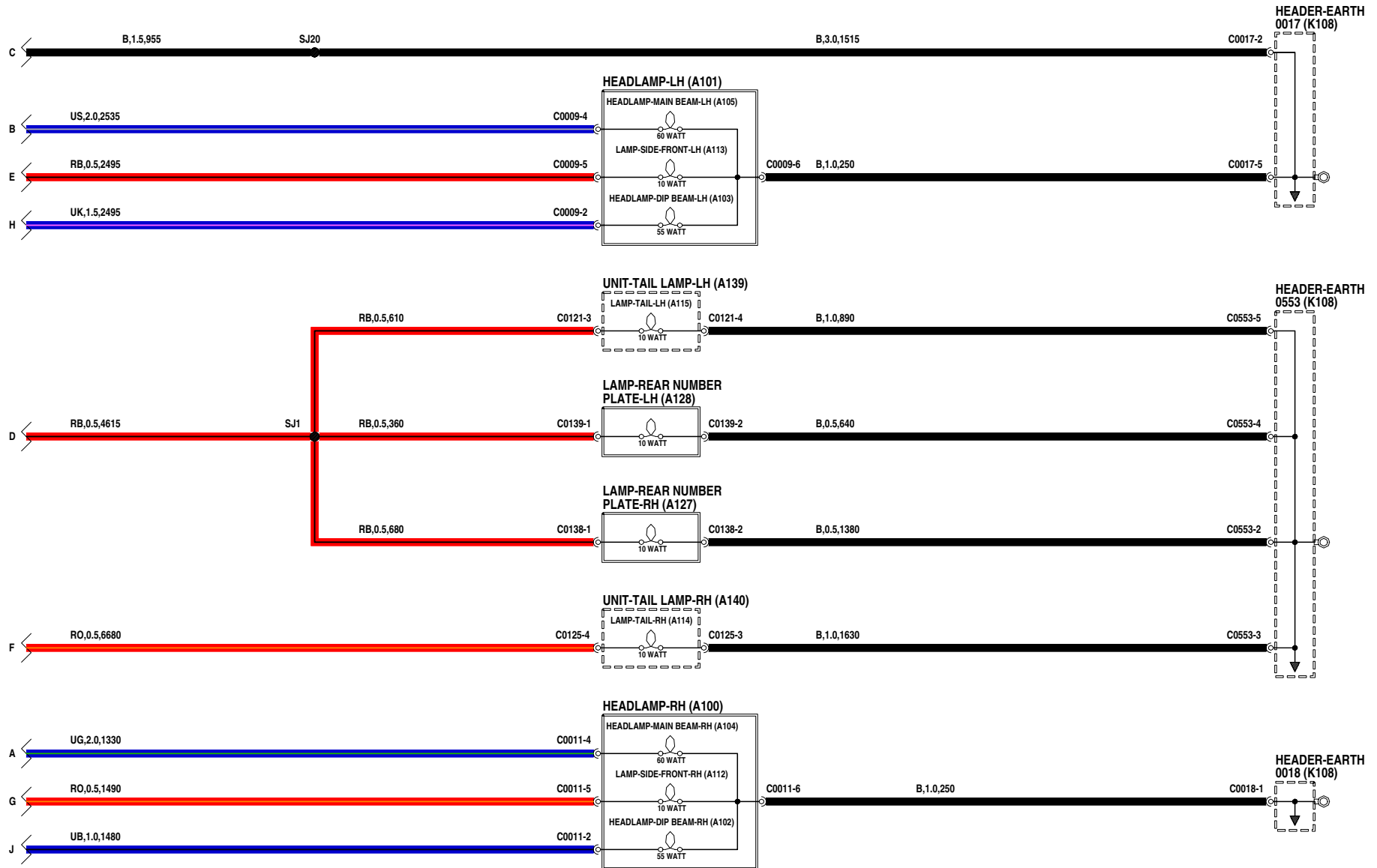


EXTERIOR LAMPS HEAD, SIDE AND TAIL LAMPS



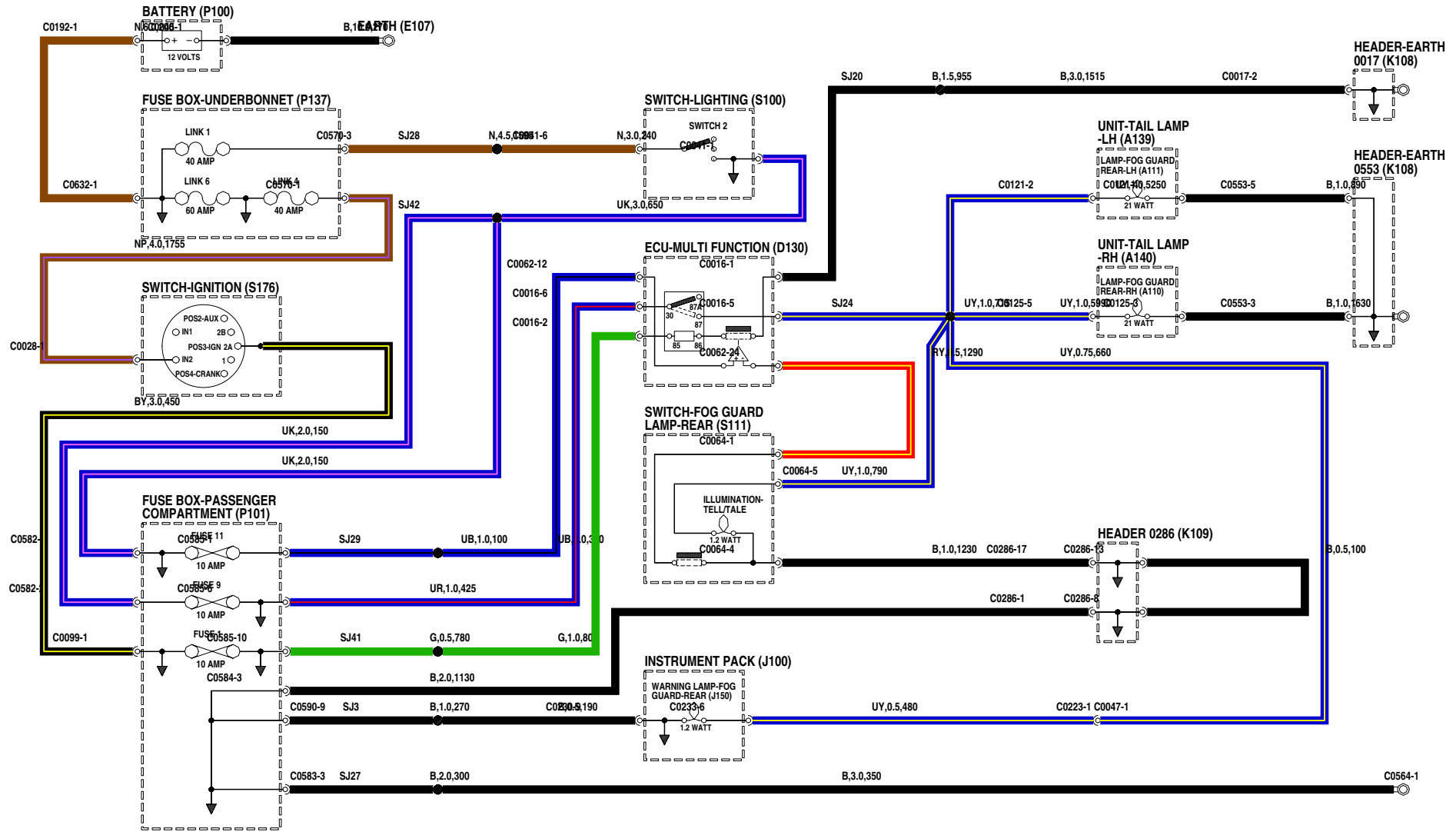
EXTERIOR LAMPS

HEAD, SIDE AND TAIL LAMPS



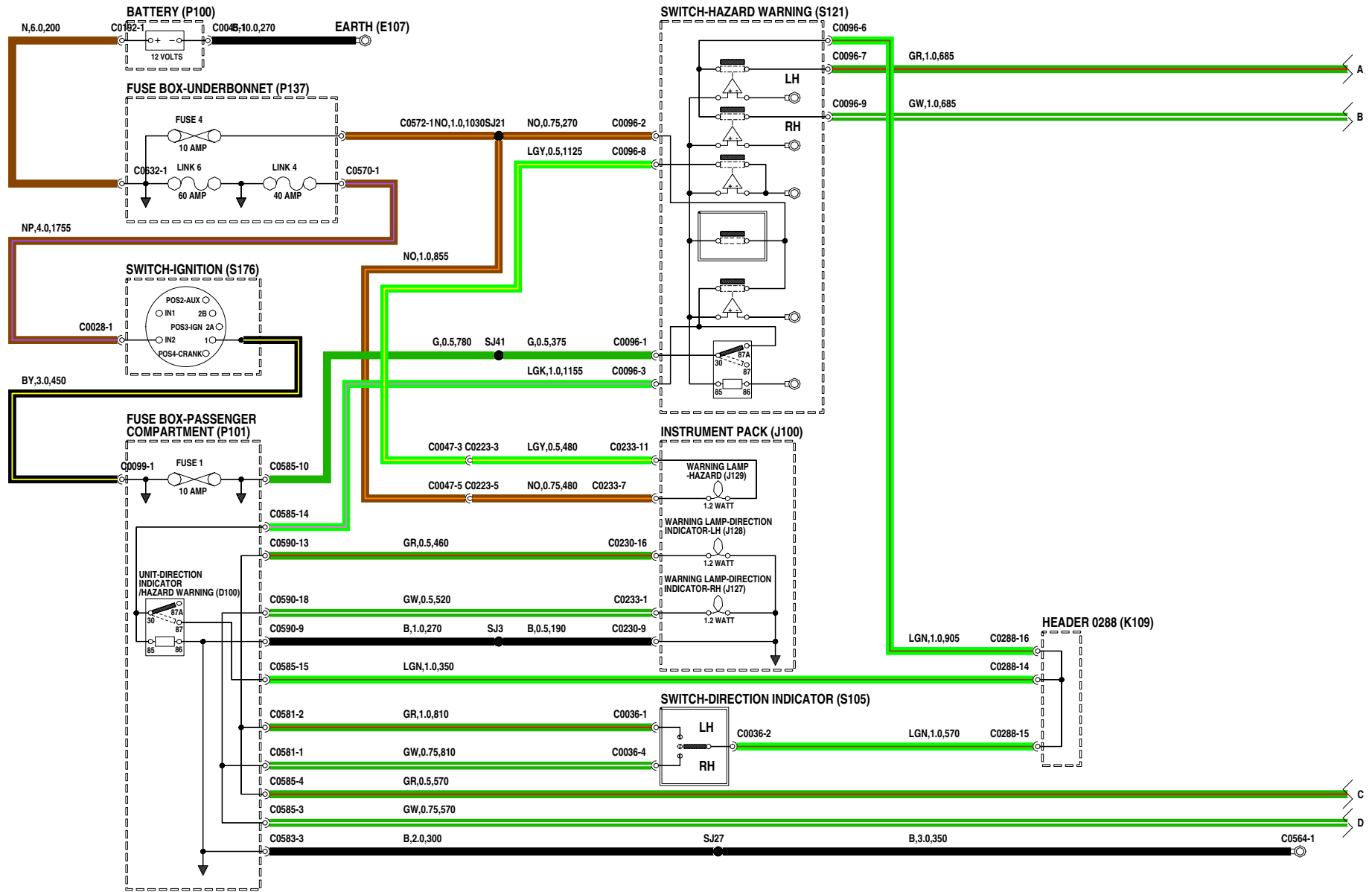
EXTERIOR LAMPS

REAR FOG LAMPS



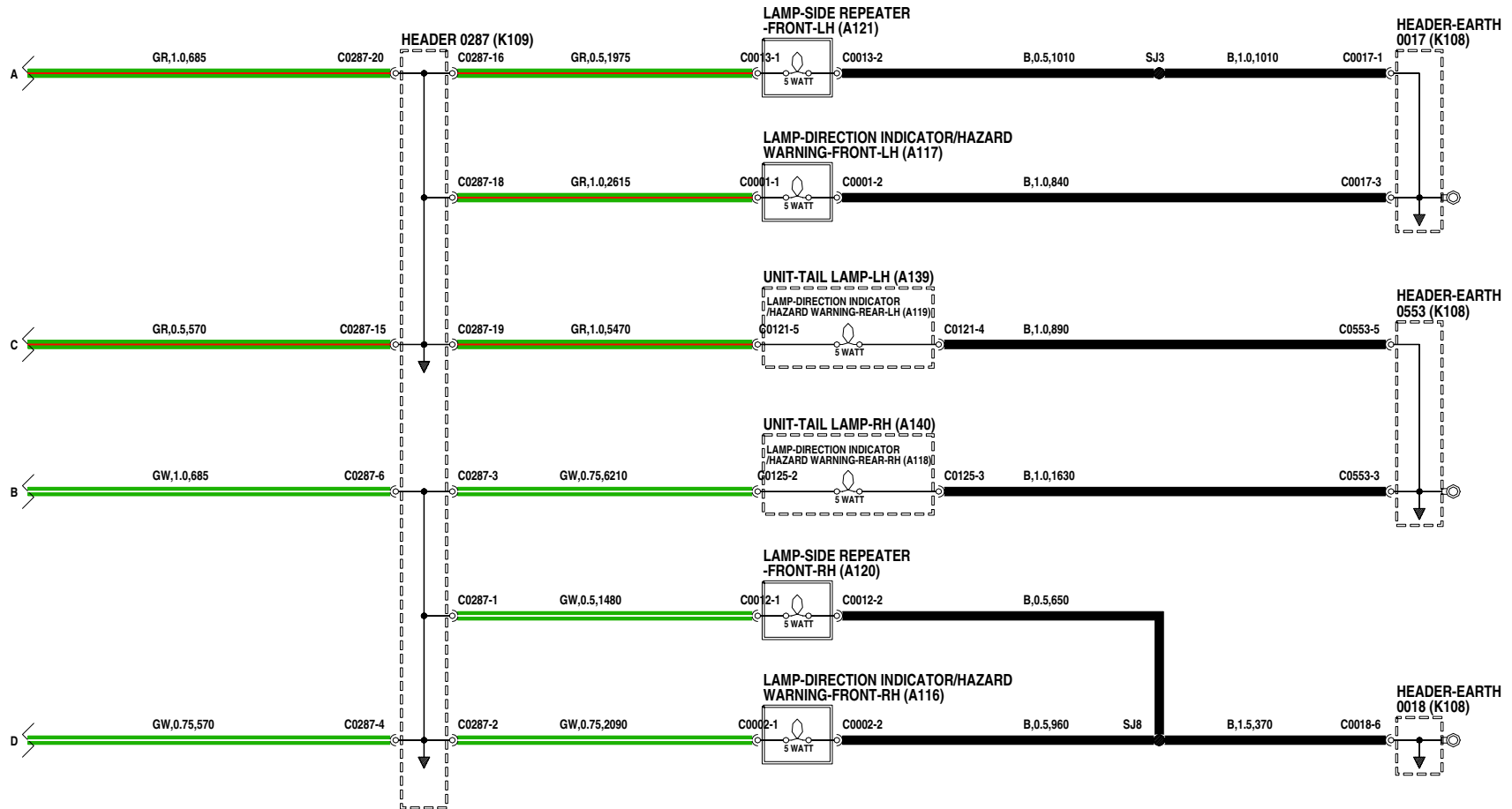
EXTERIOR LAMPS

DIRECTION INDICATOR/HAZARD WARNING LAMPS

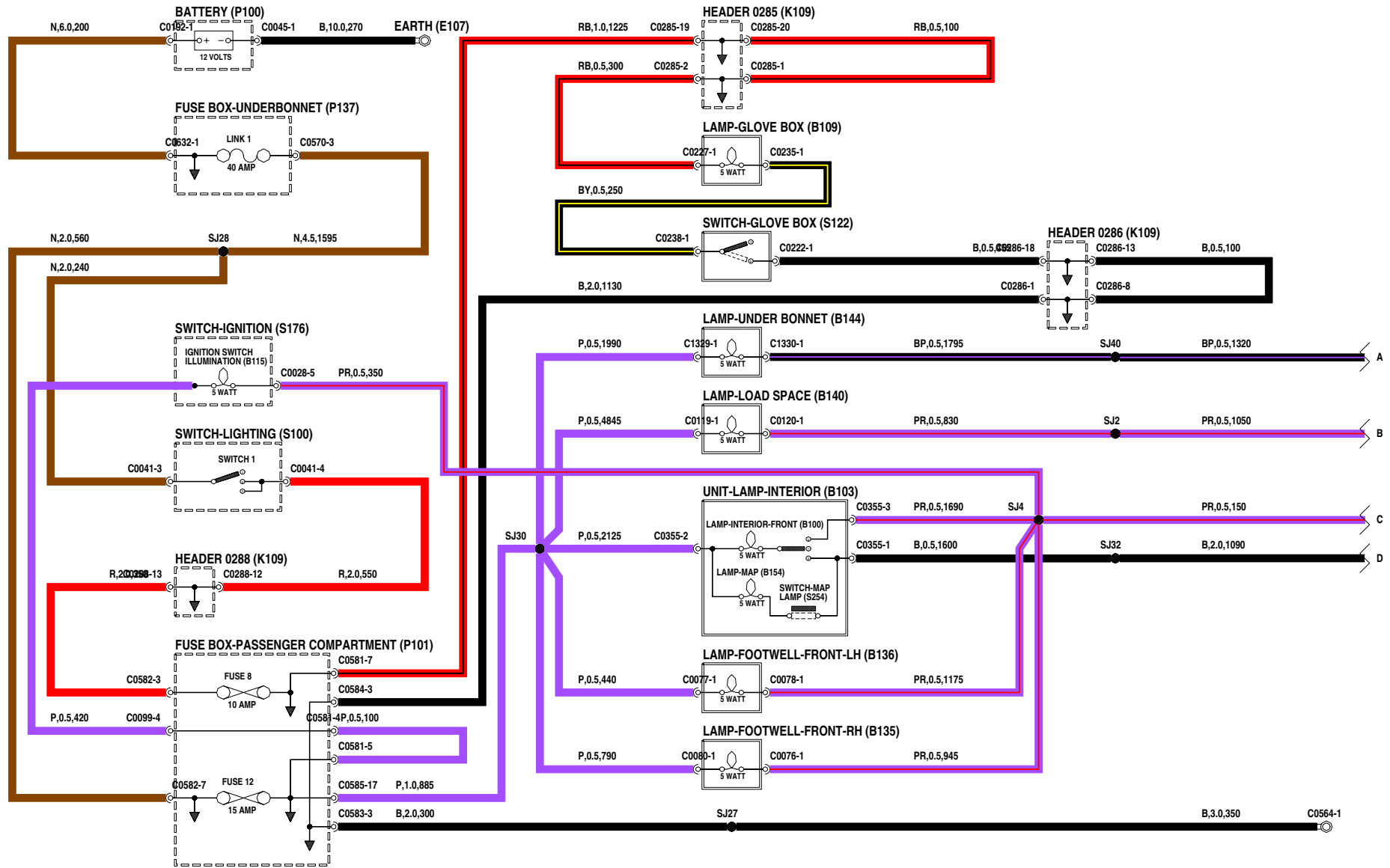


EXTERIOR LAMPS

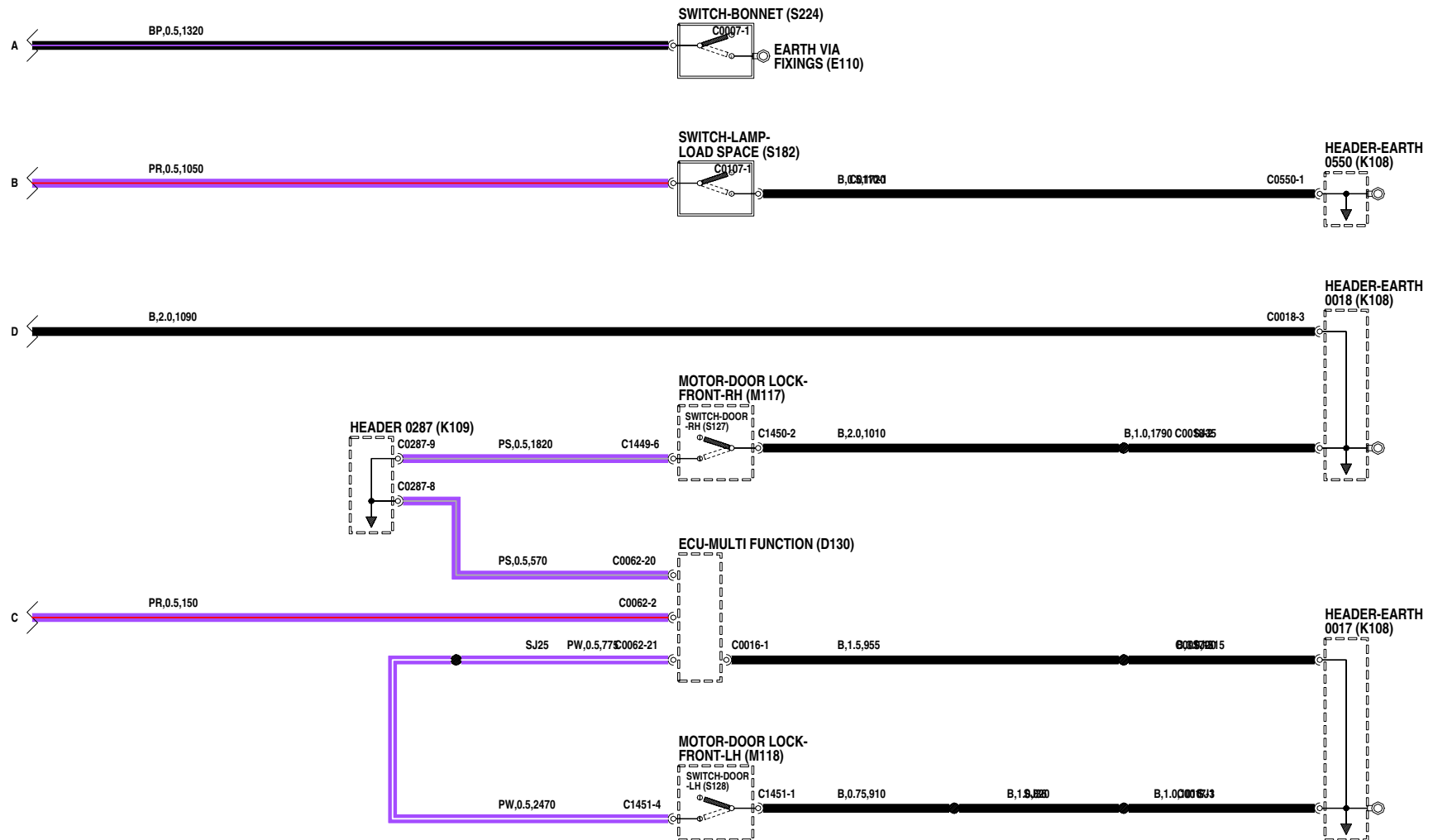
DIRECTION INDICATOR/HAZARD WARNING LAMPS



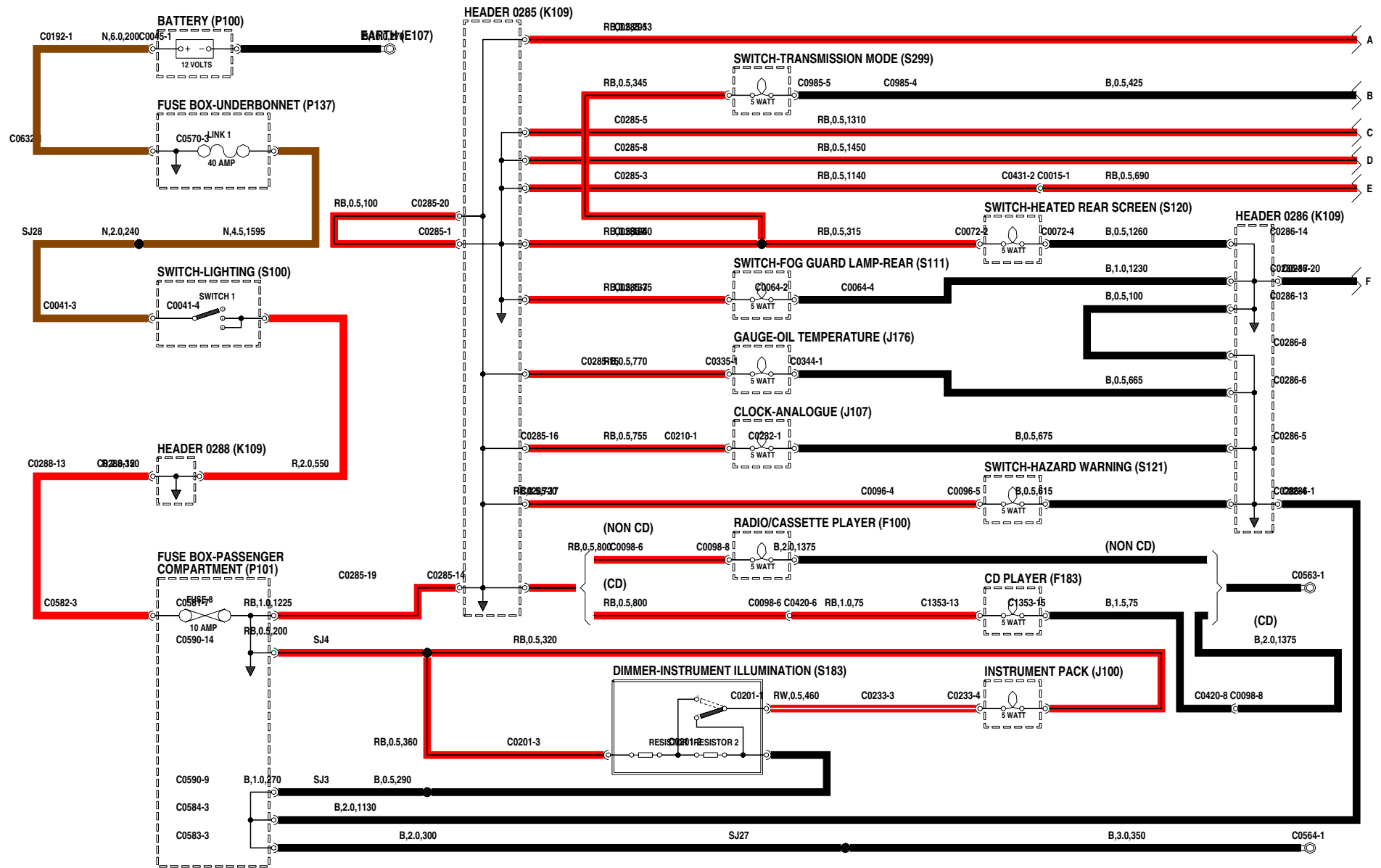
INTERIOR LAMPS



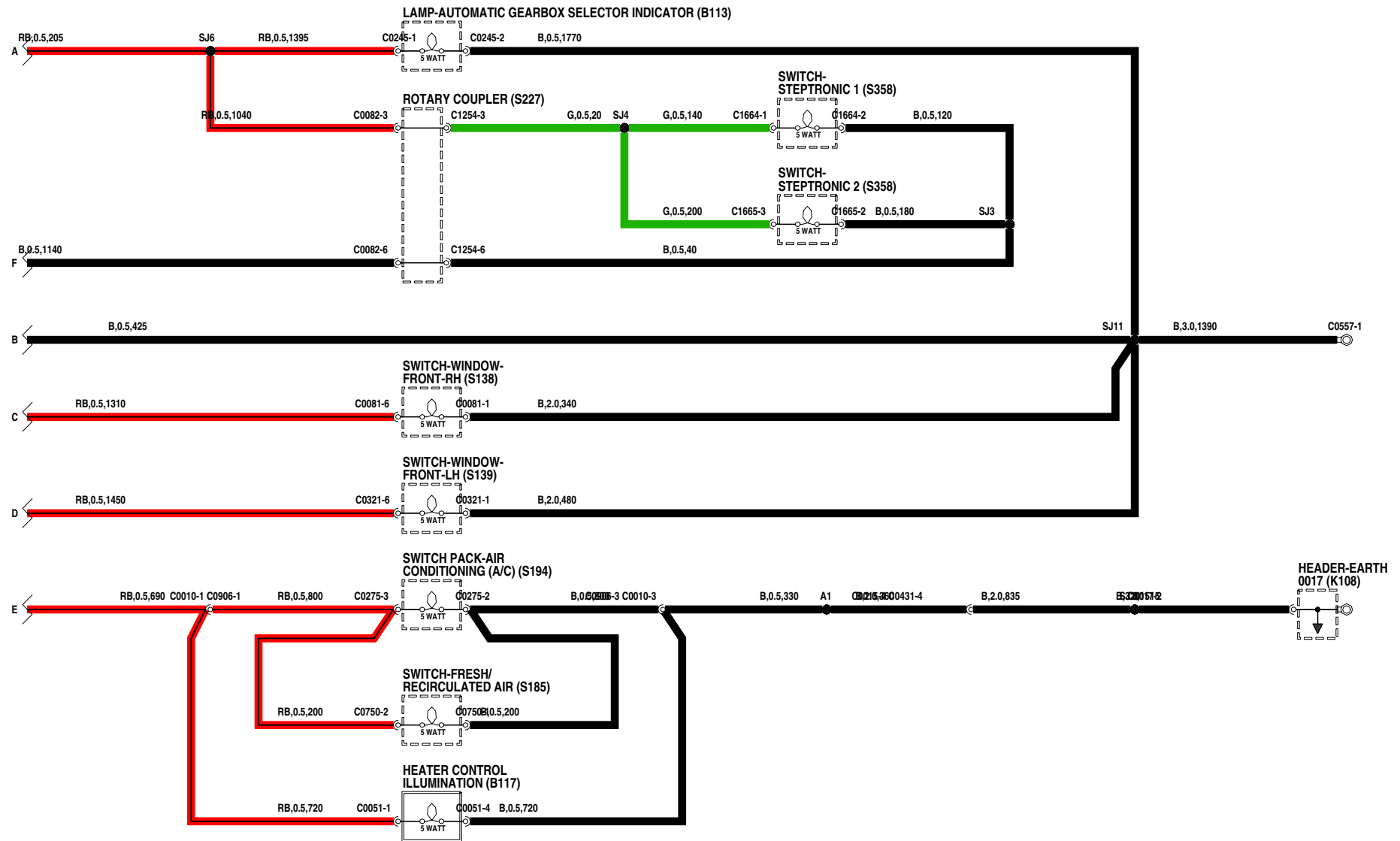
INTERIOR LAMPS



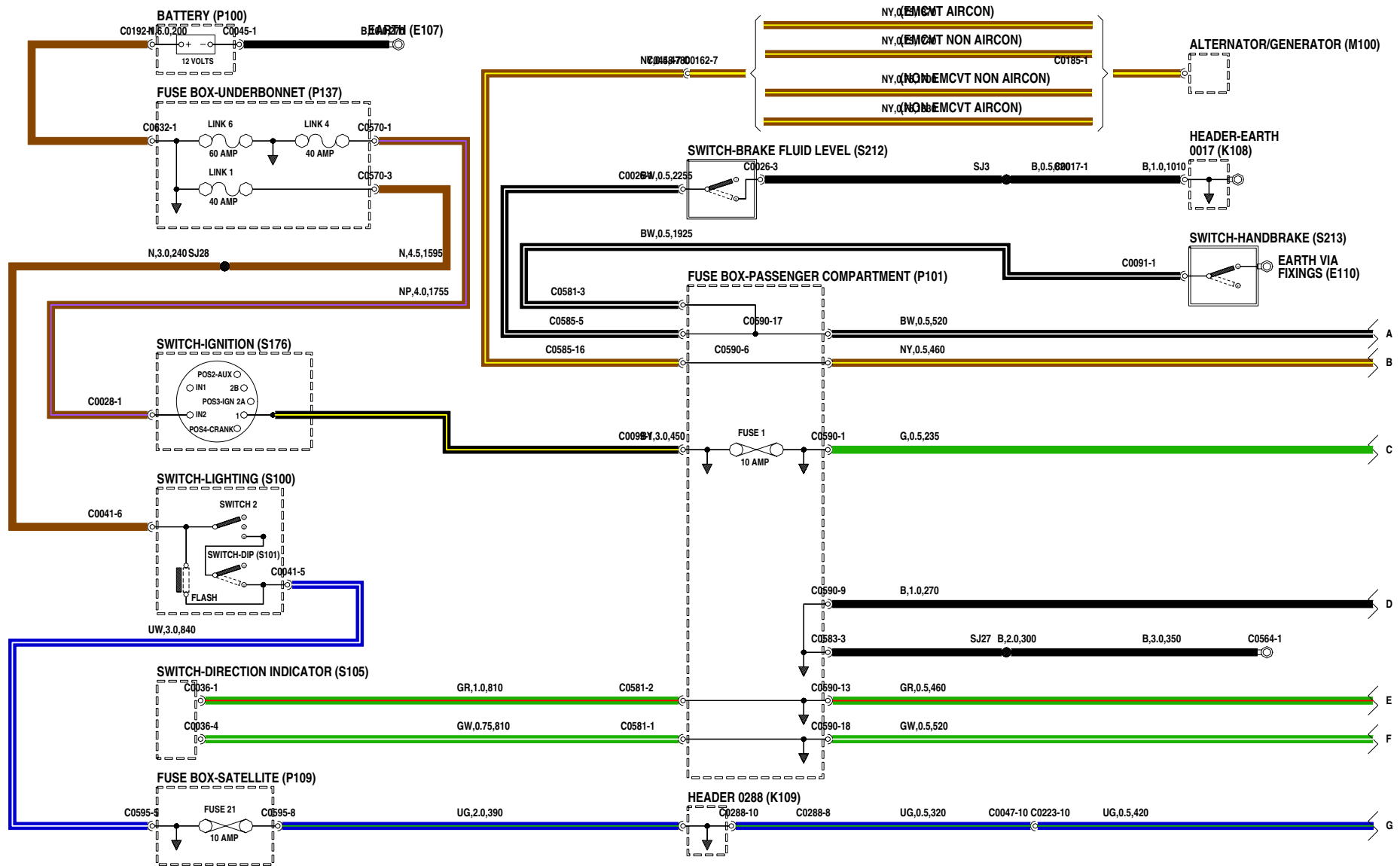
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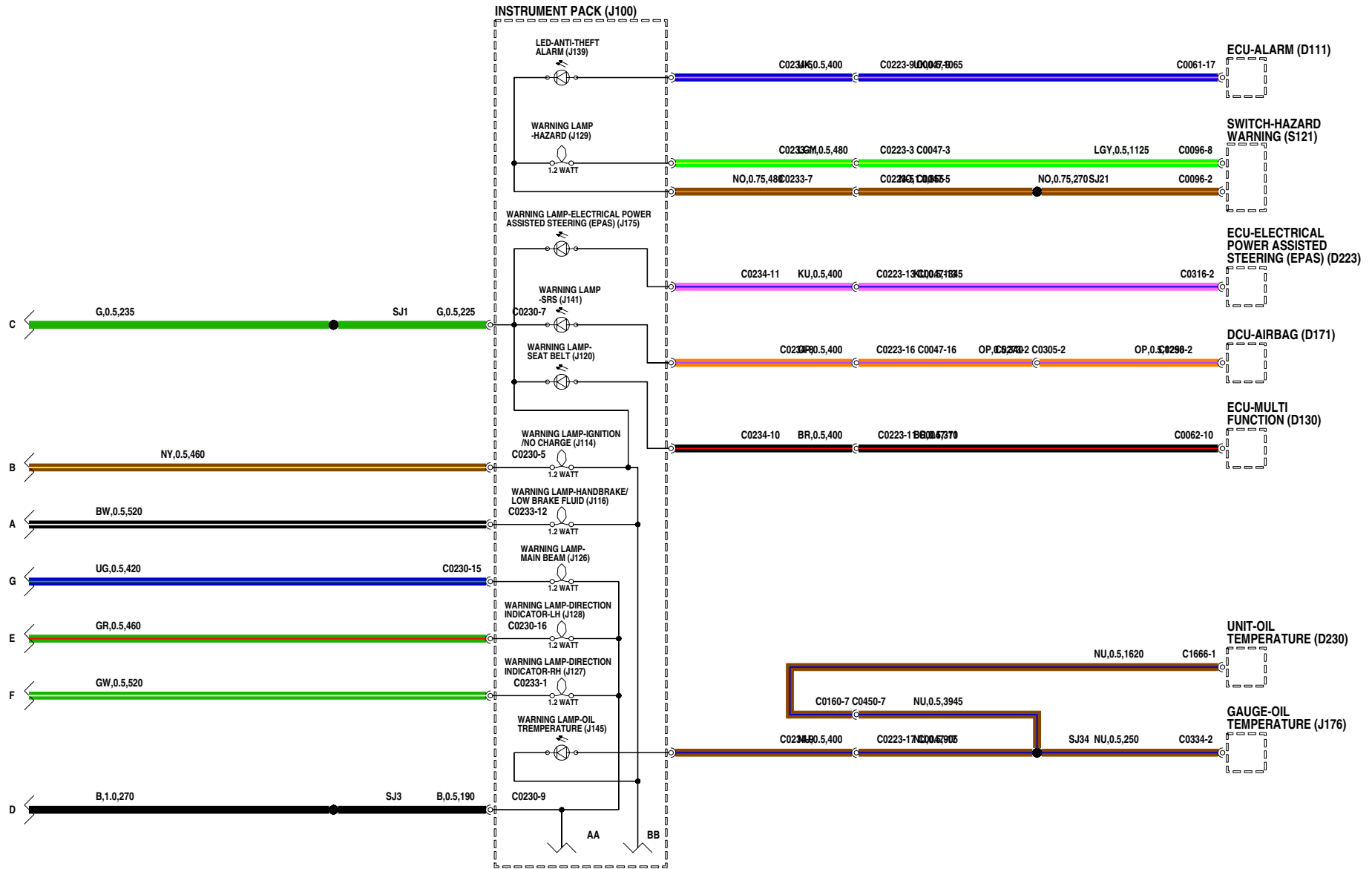
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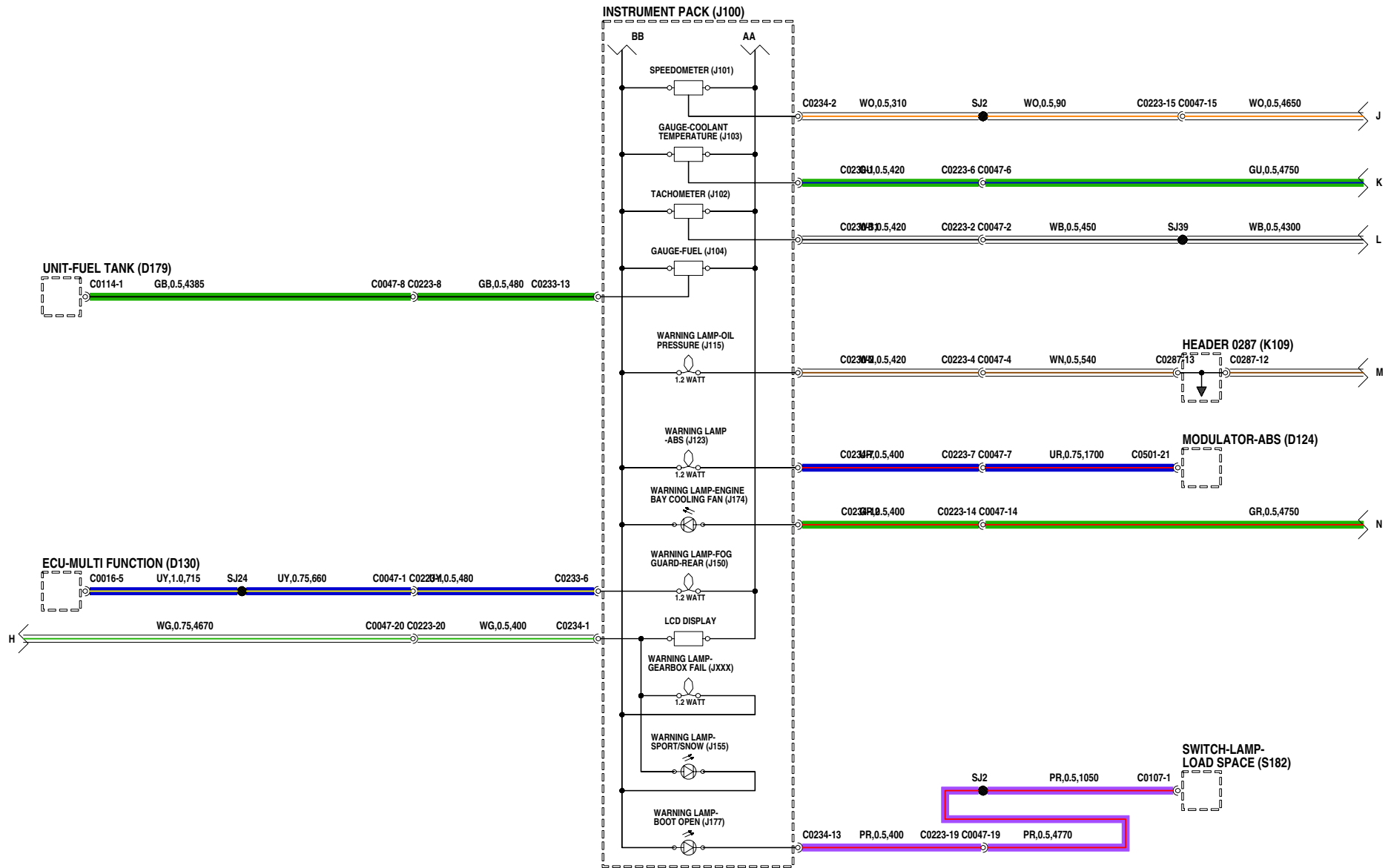
INSTRUMENTS



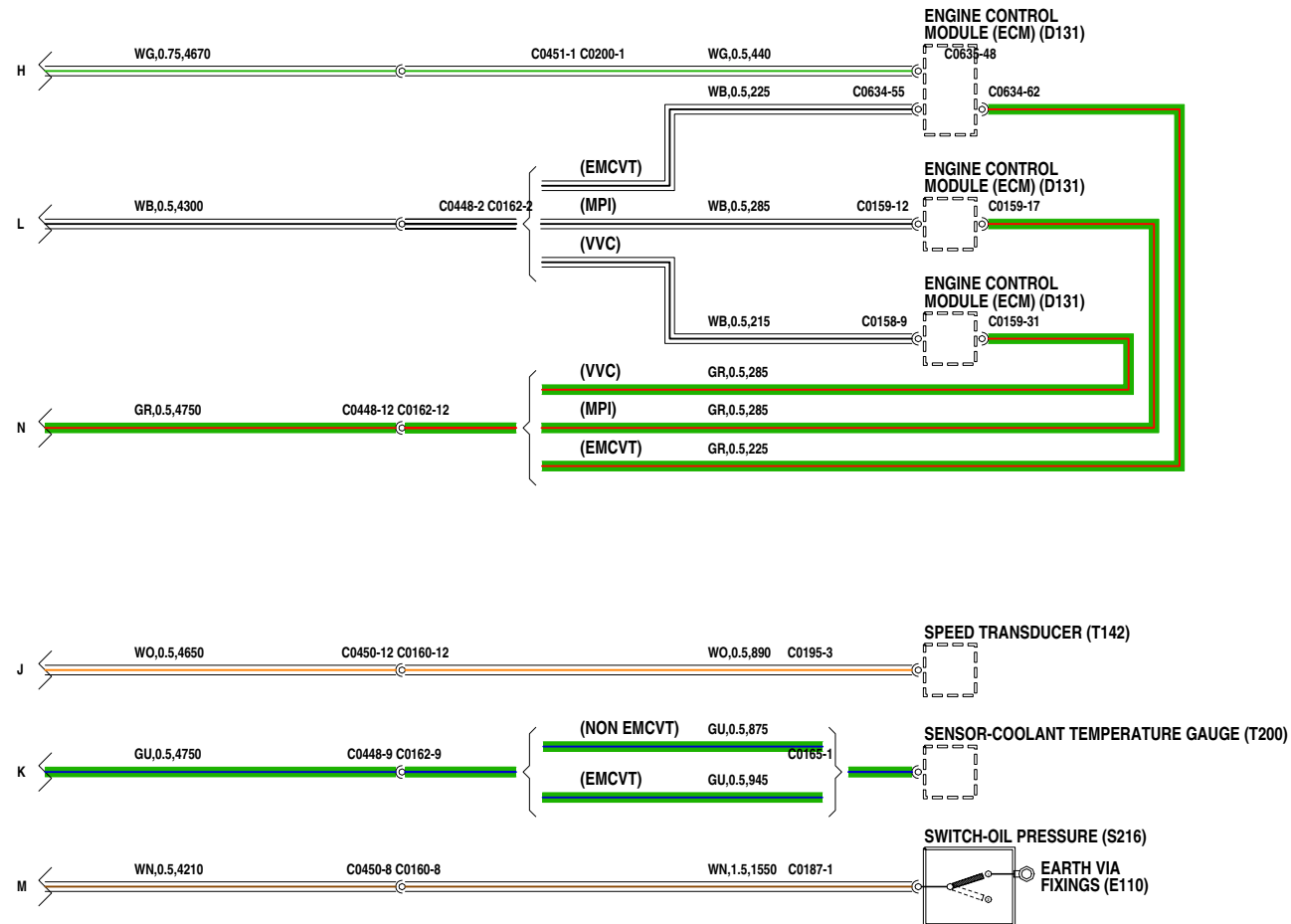
INSTRUMENTS



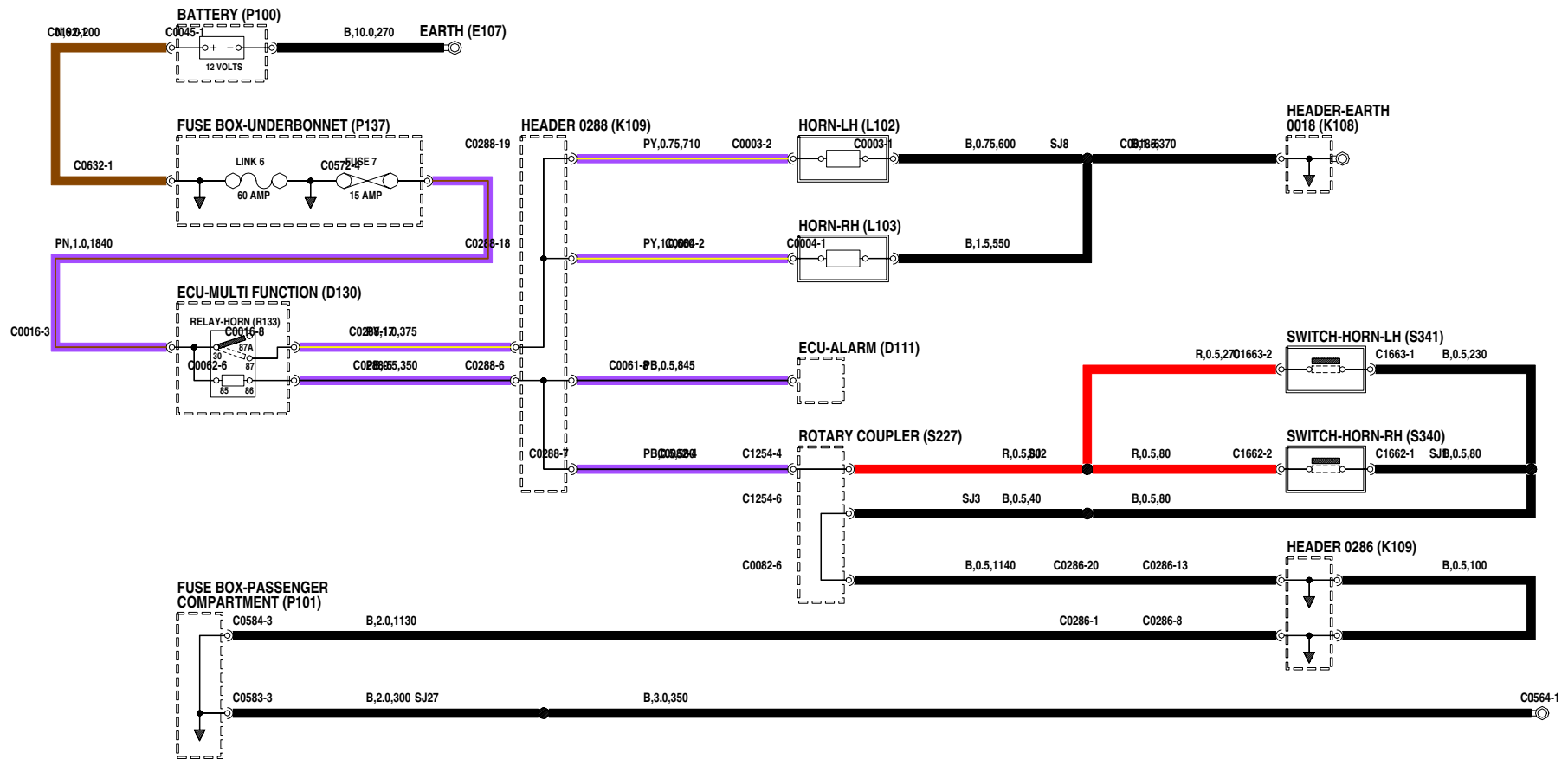
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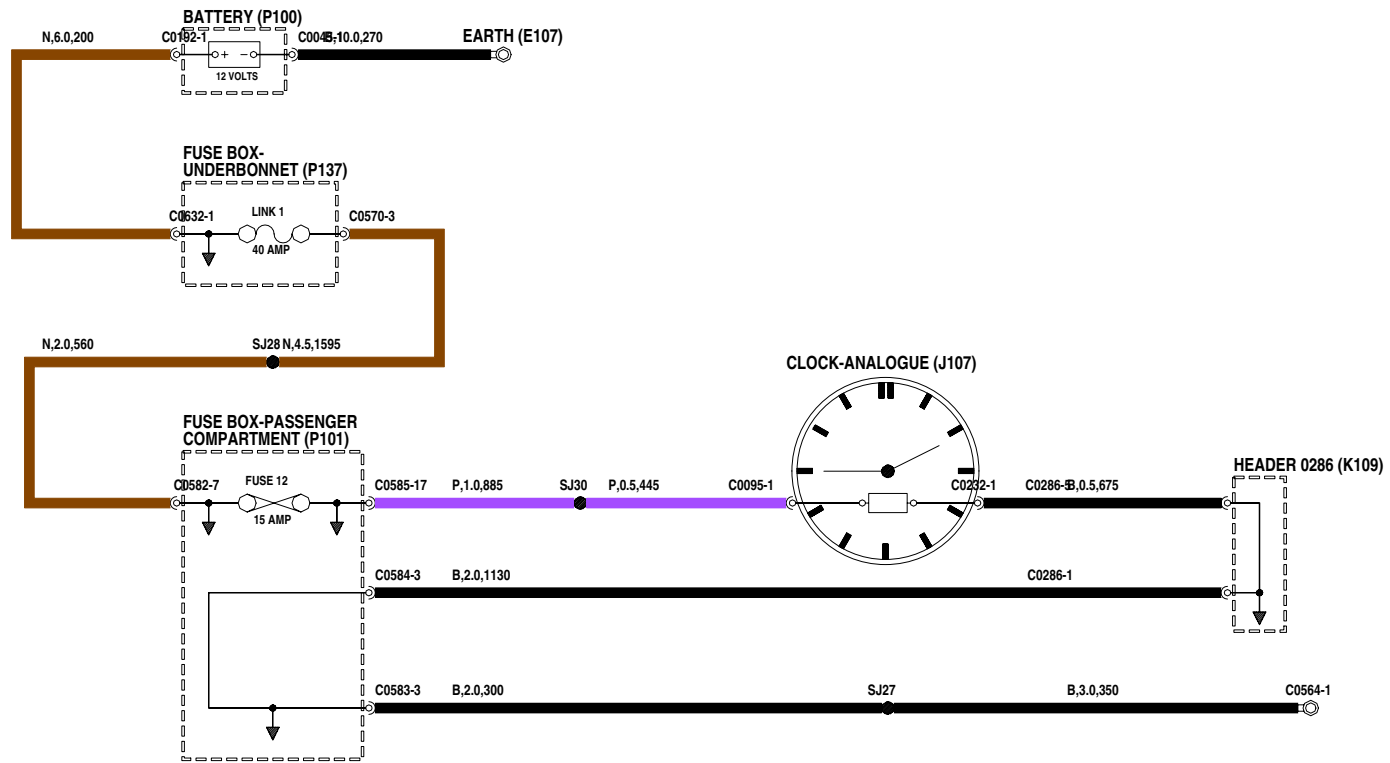
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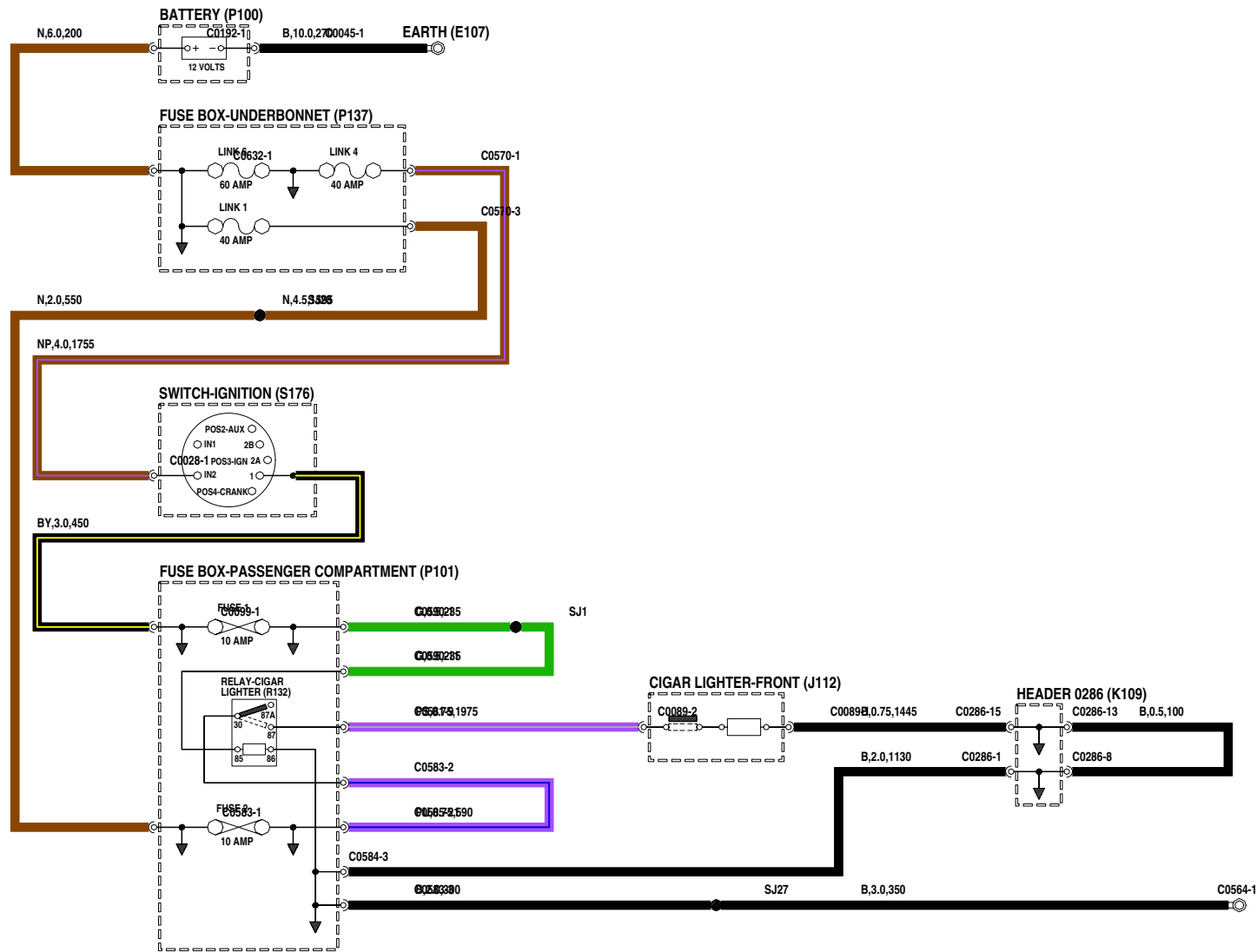
HORNS



CLOCK

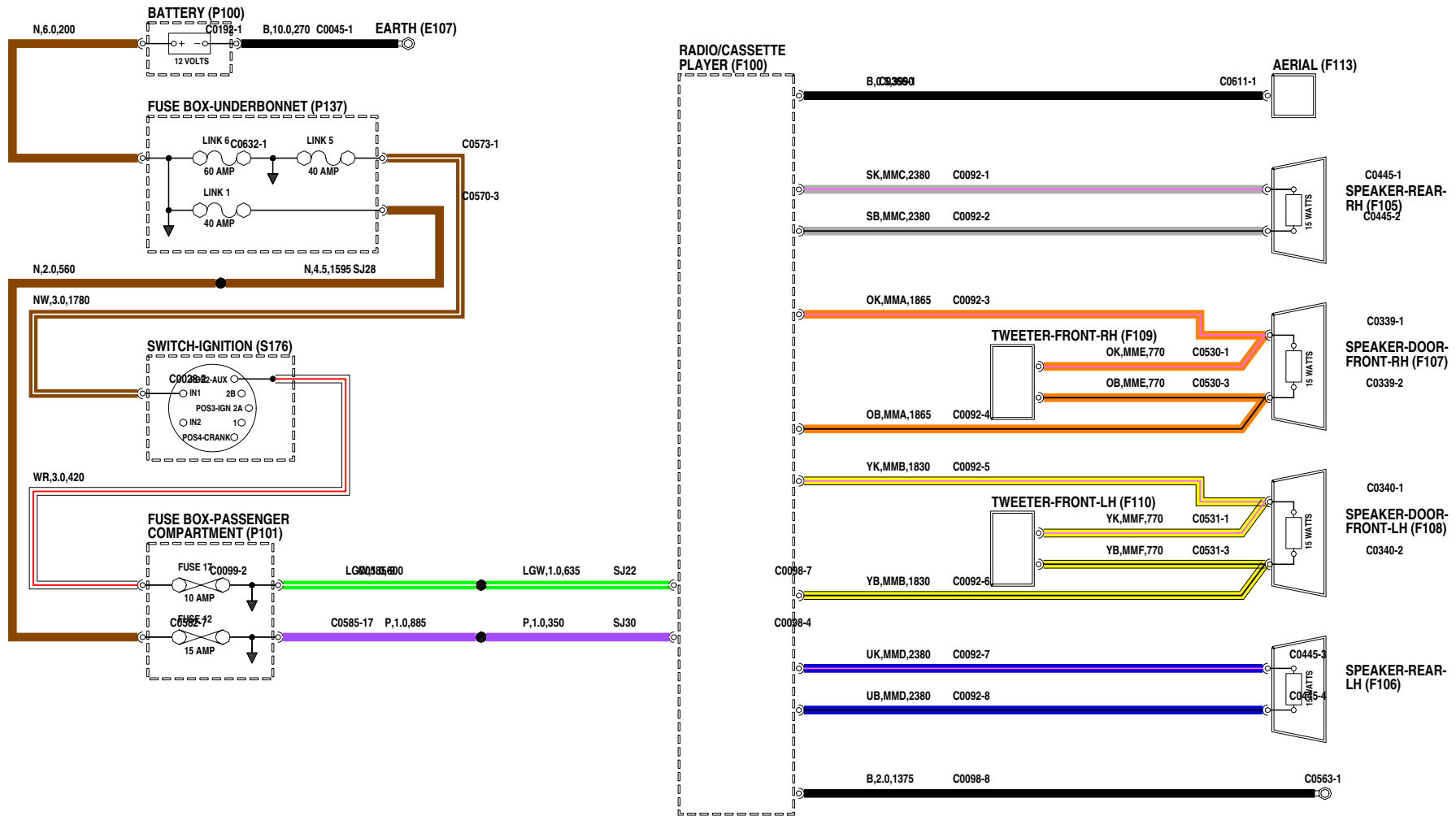


CIGAR LIGHTER



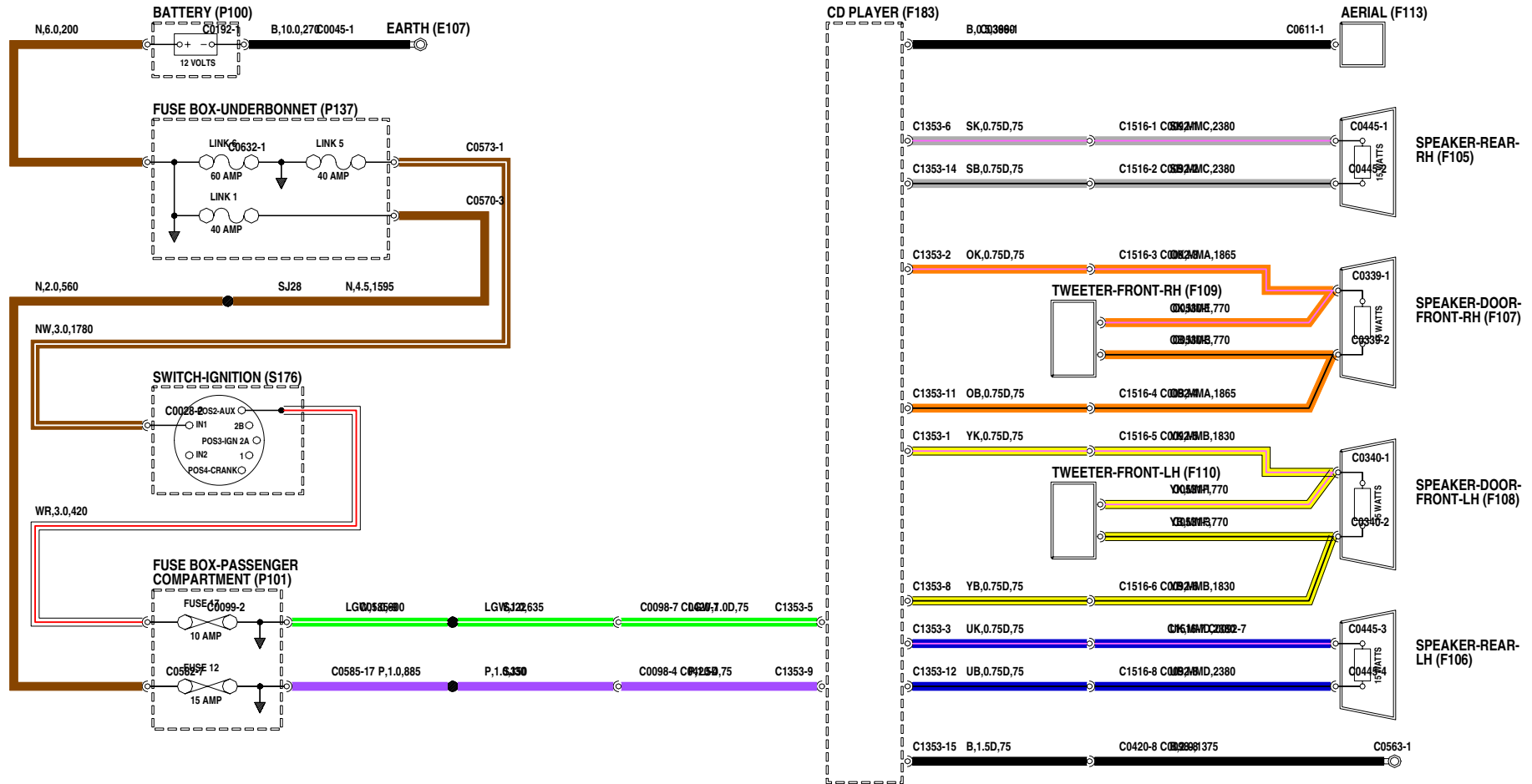
AUDIO SYSTEMS

RADIO/CASSETTE PLAYER

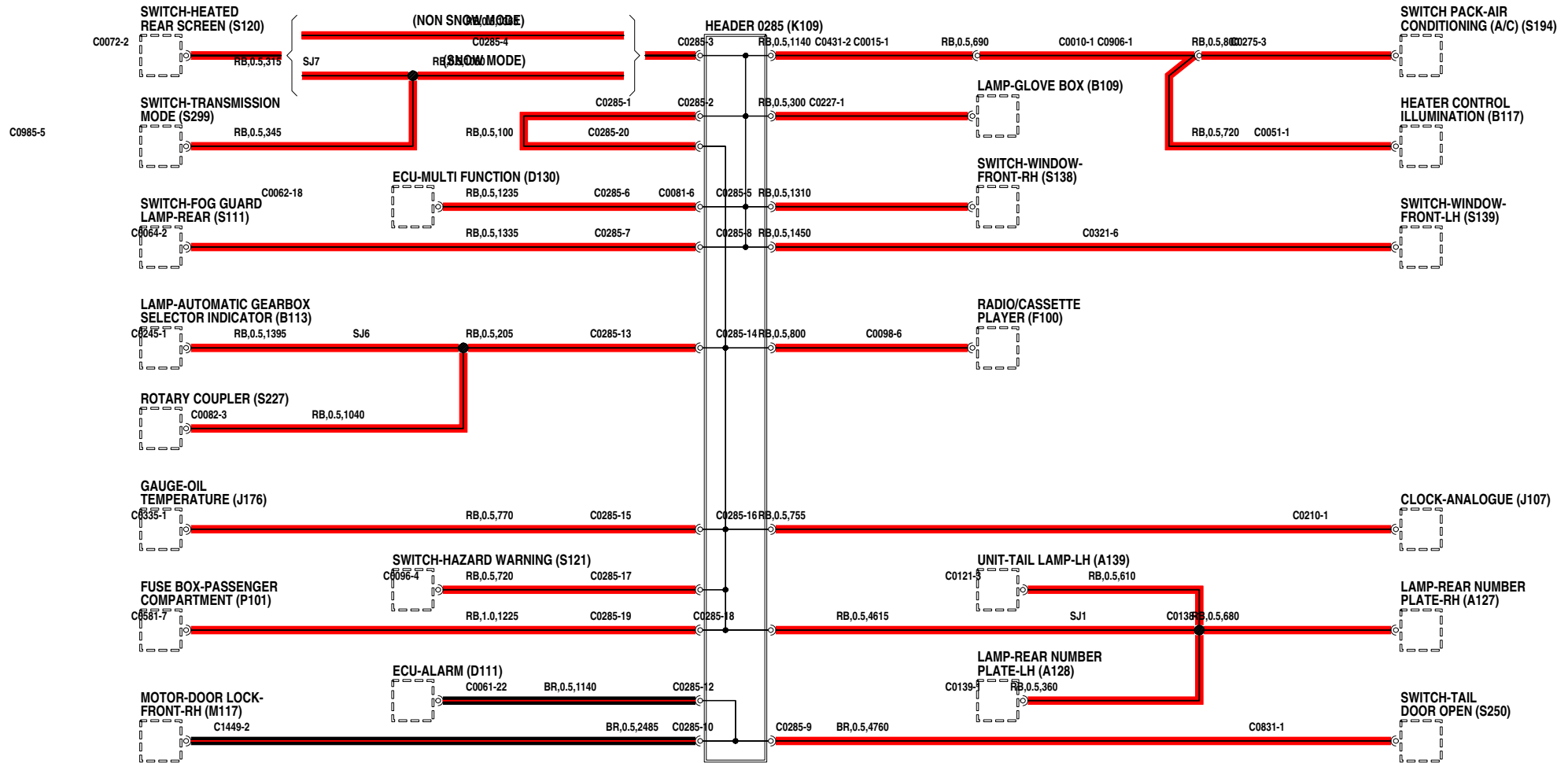


AUDIO SYSTEMS

CD PLAYER

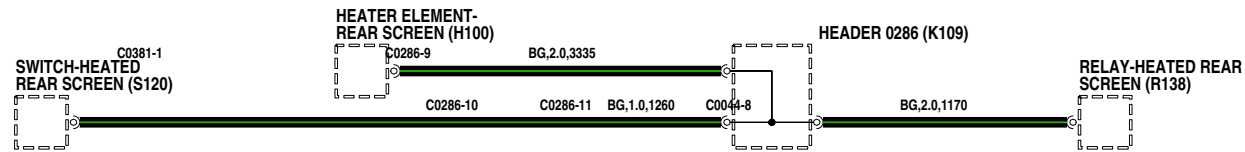


HEADER JOINTS



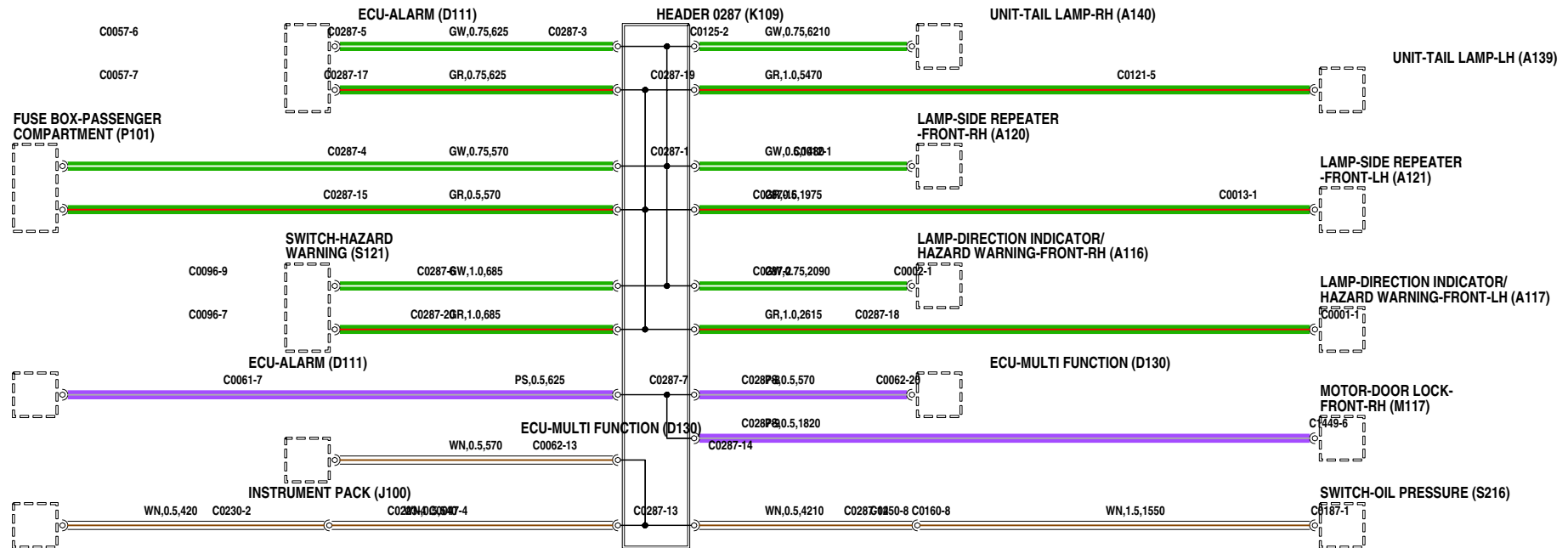
HEADER JOINTS

0072-5

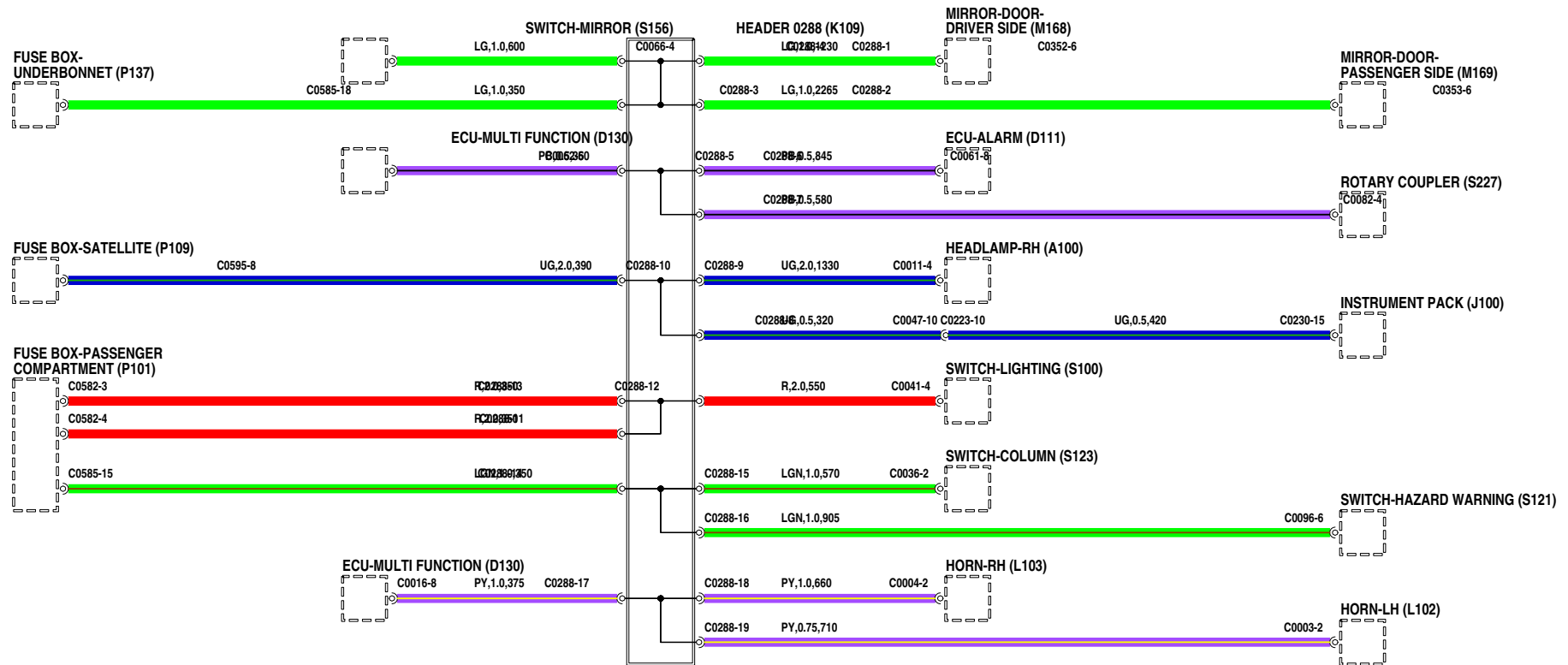


0585-3

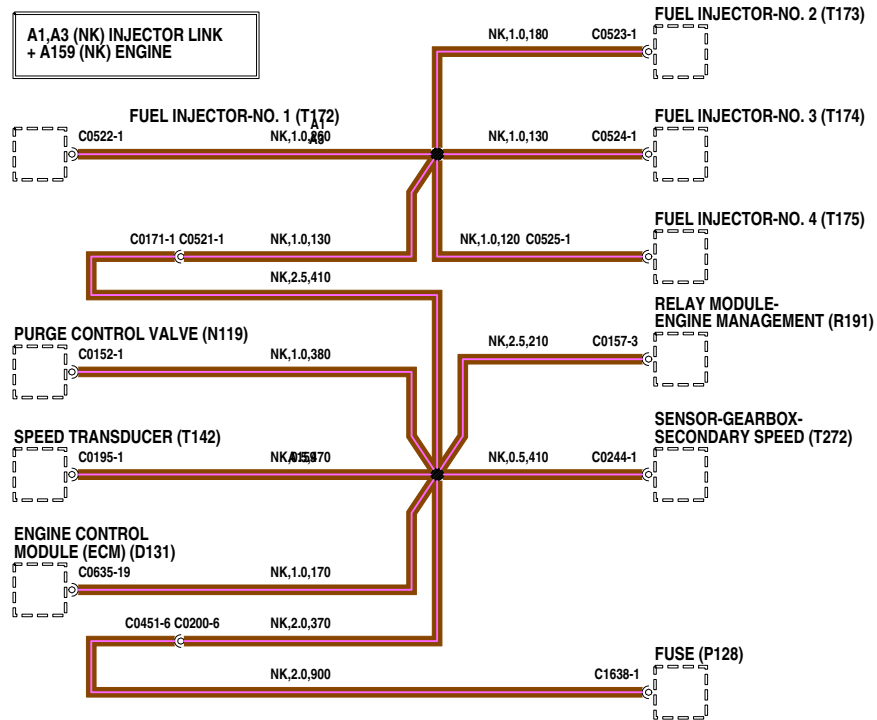
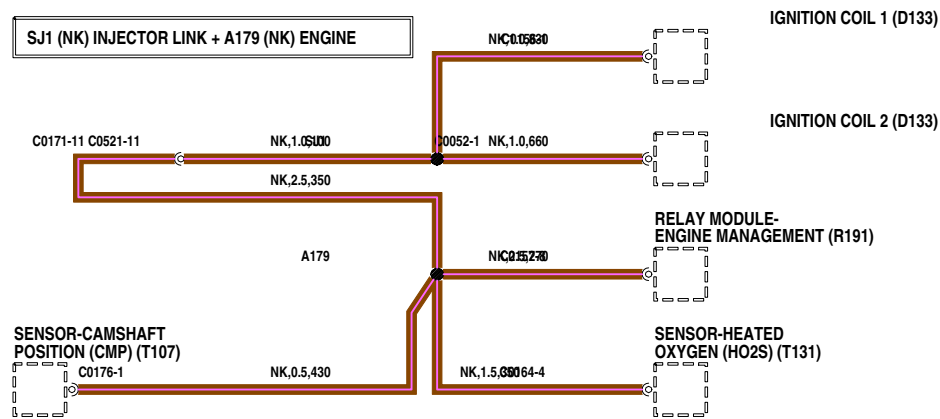
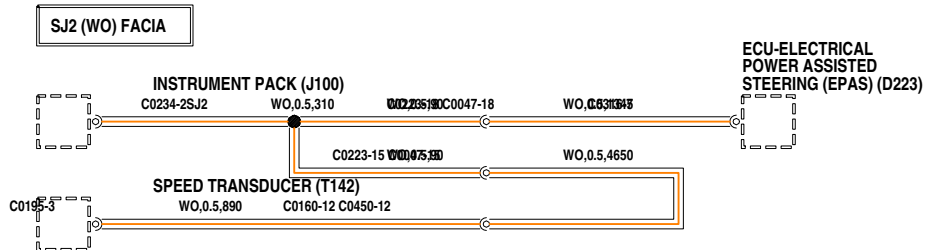
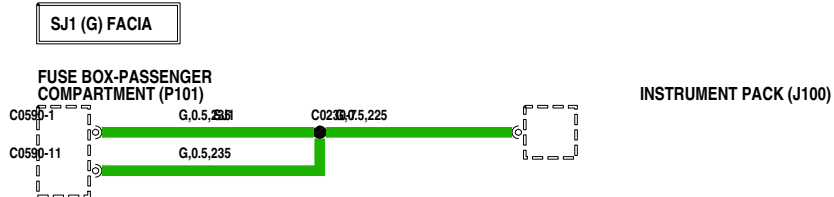
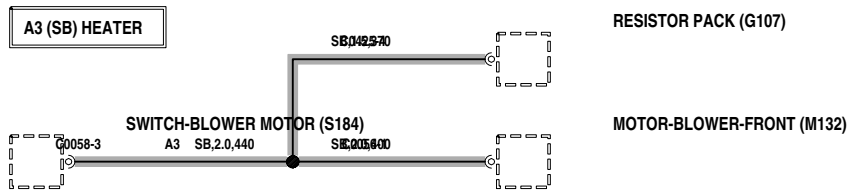
C0585-4



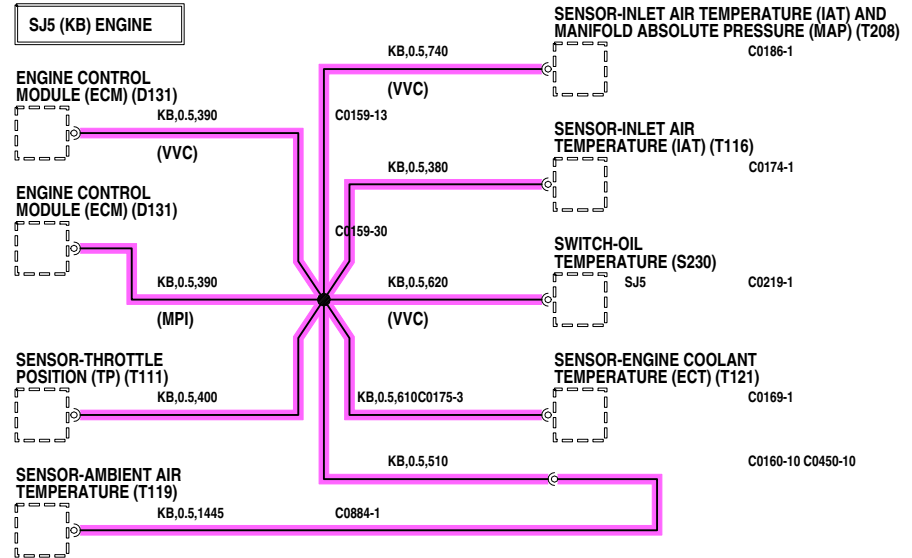
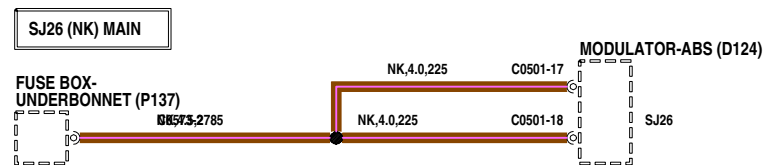
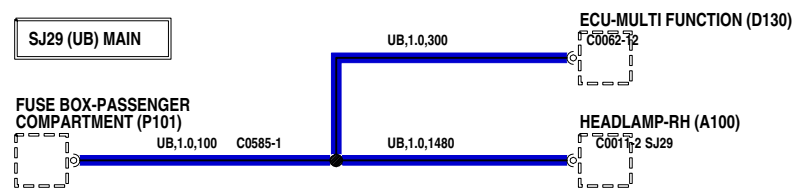
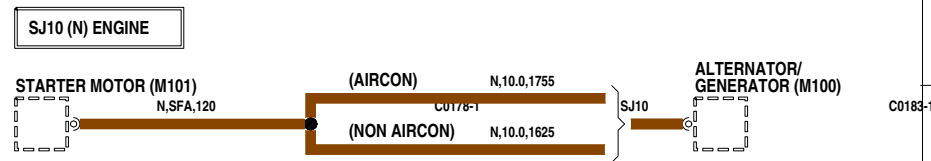
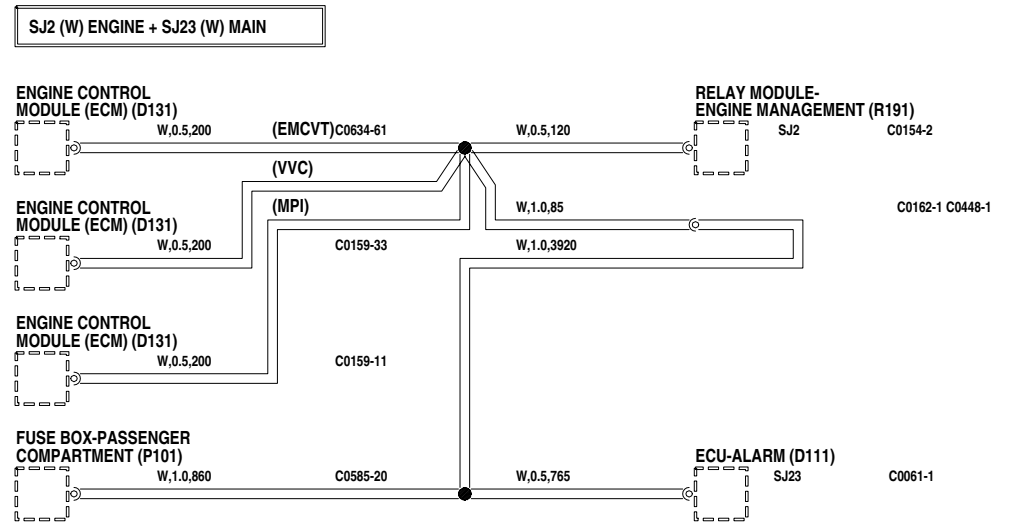
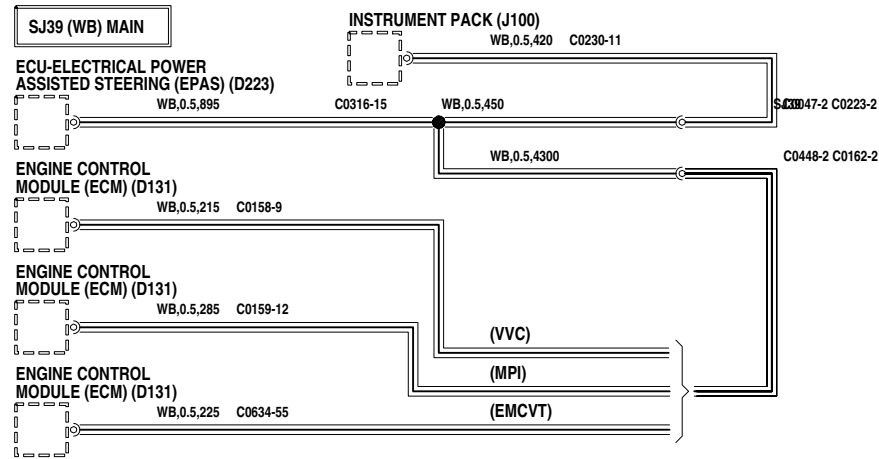
HEADER JOINTS



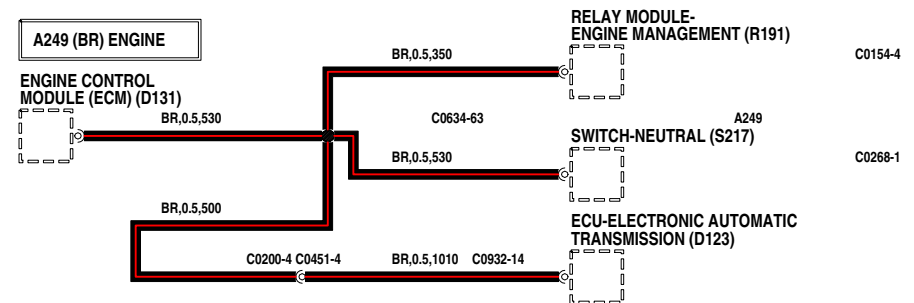
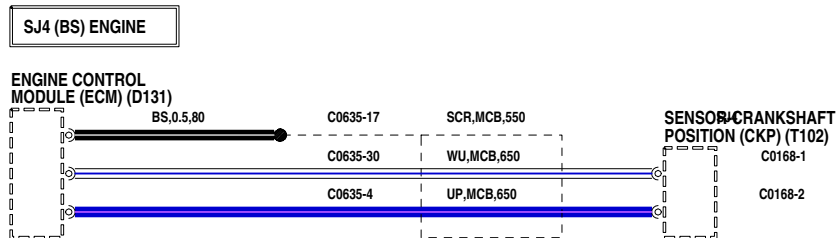
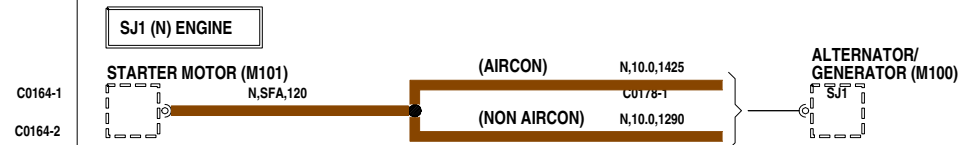
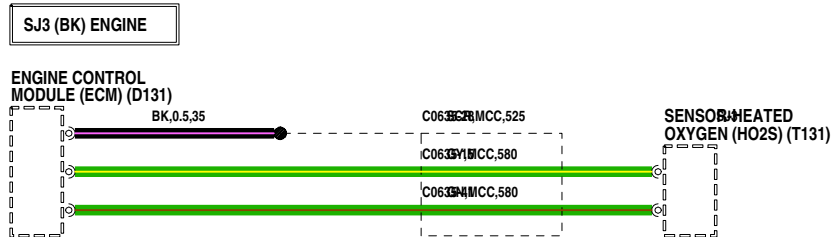
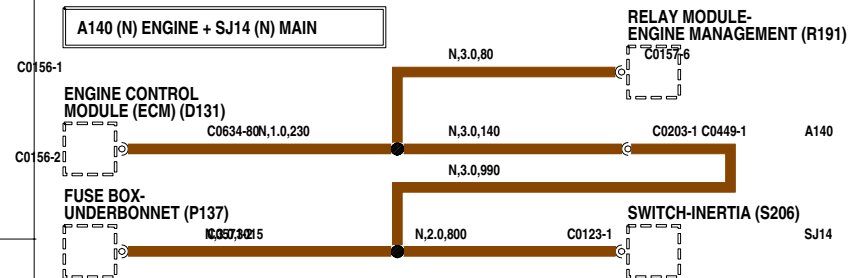
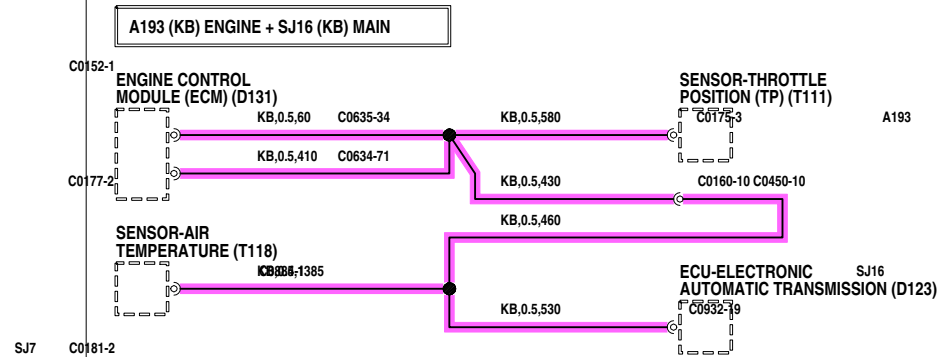
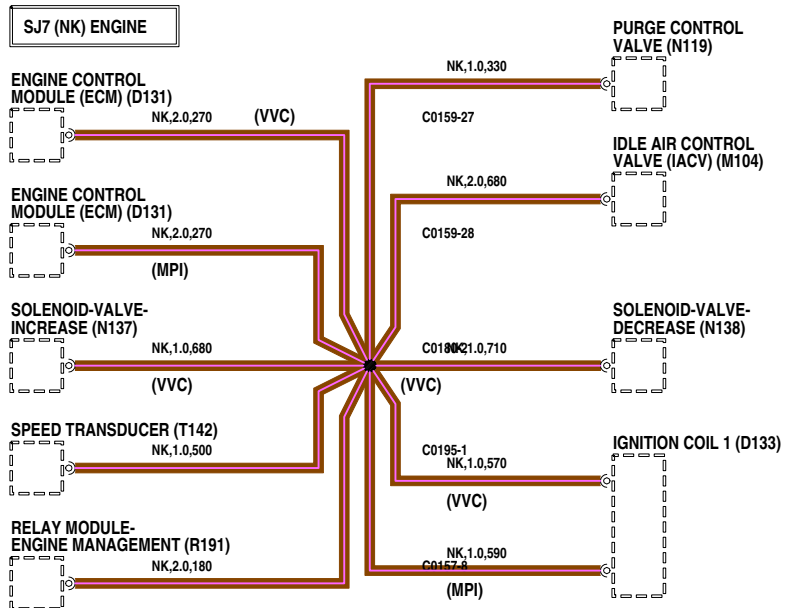
SPLICES AND CENTRE TAPS



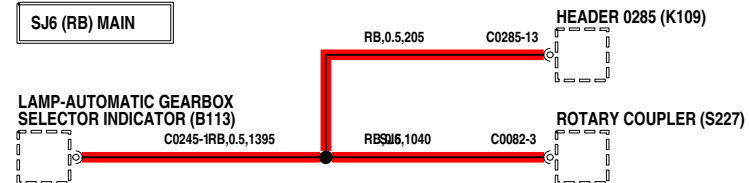
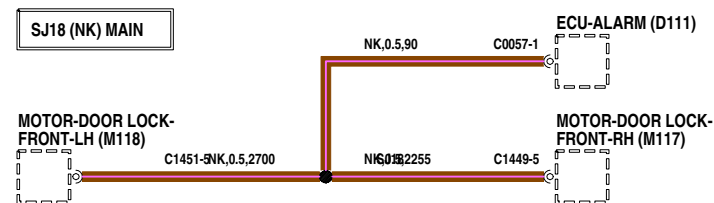
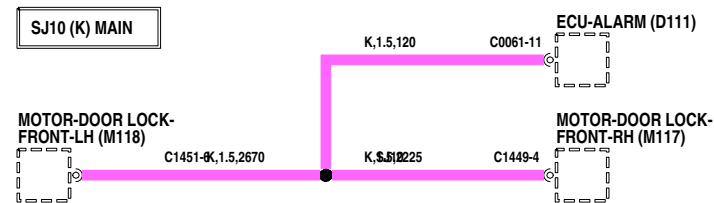
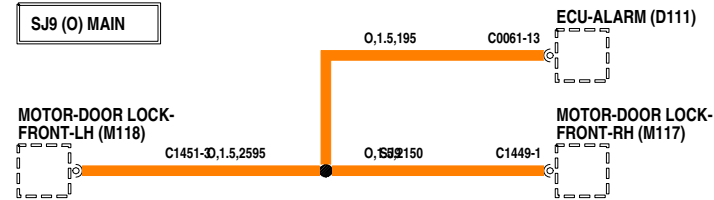
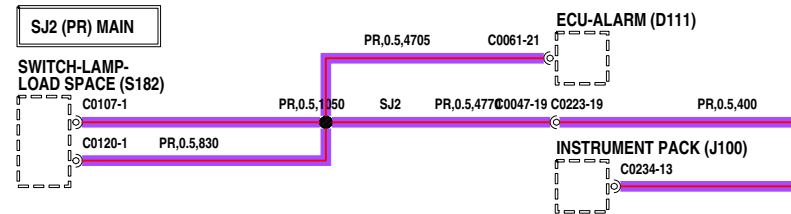
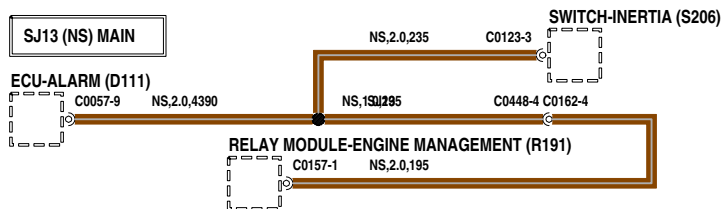
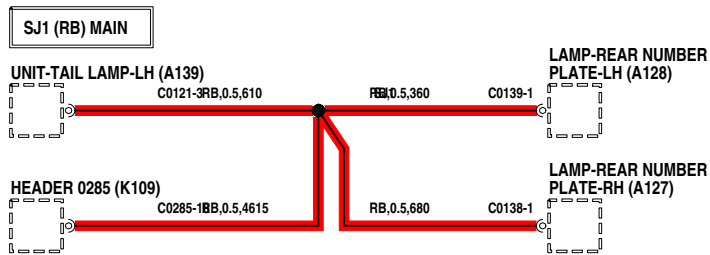
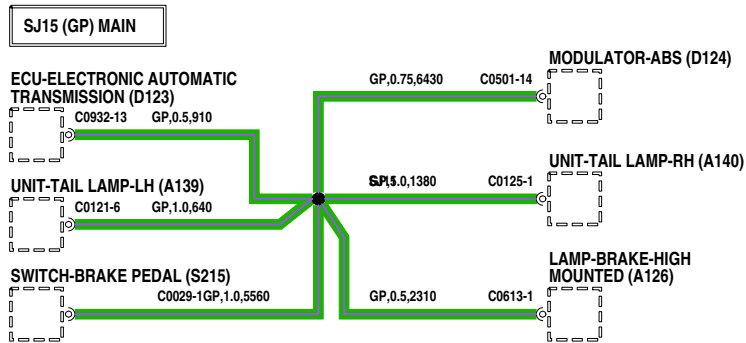
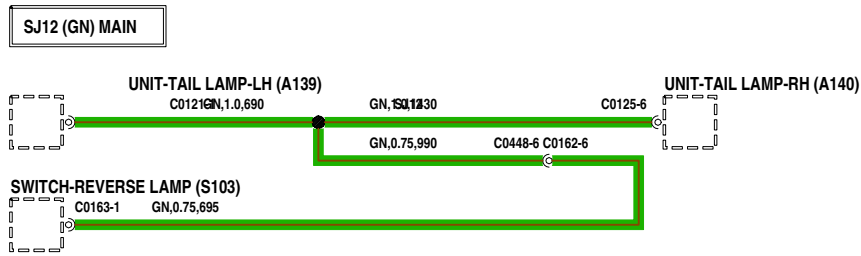
SPLICES AND CENTRE TAPS



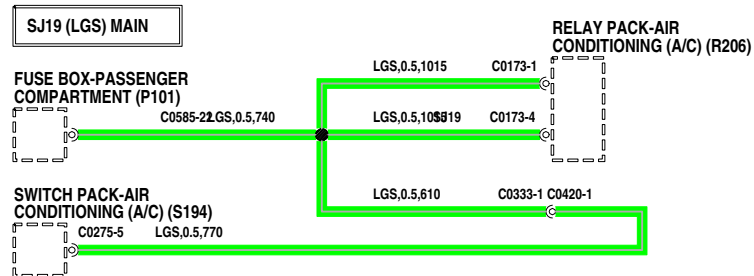
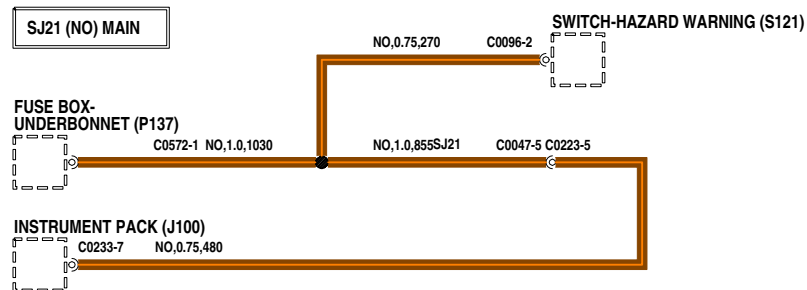
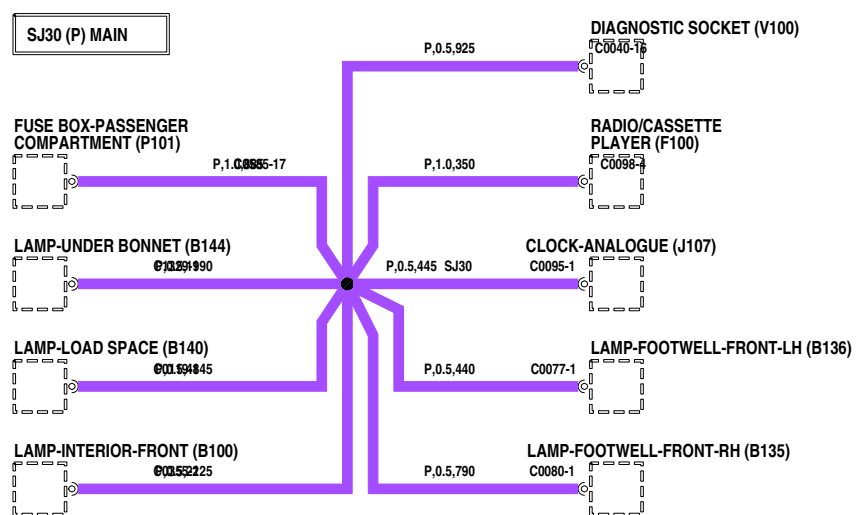
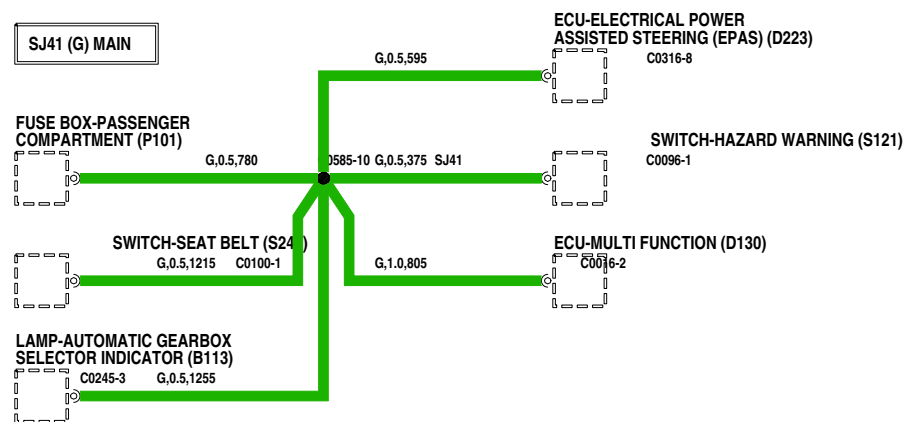
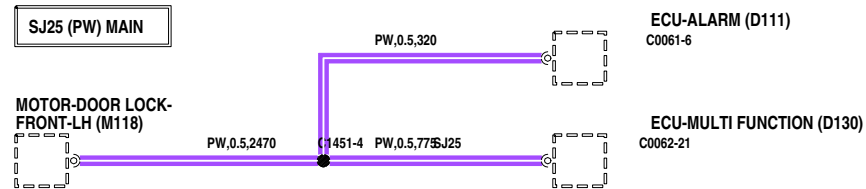
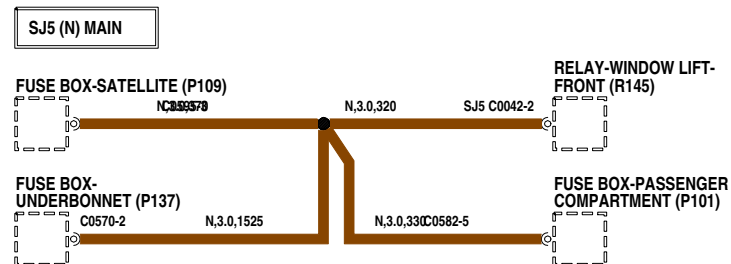
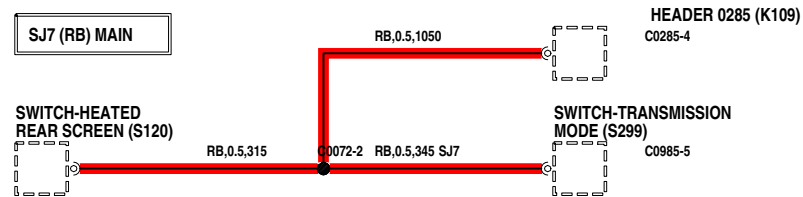
SPLICES AND CENTRE TAPS



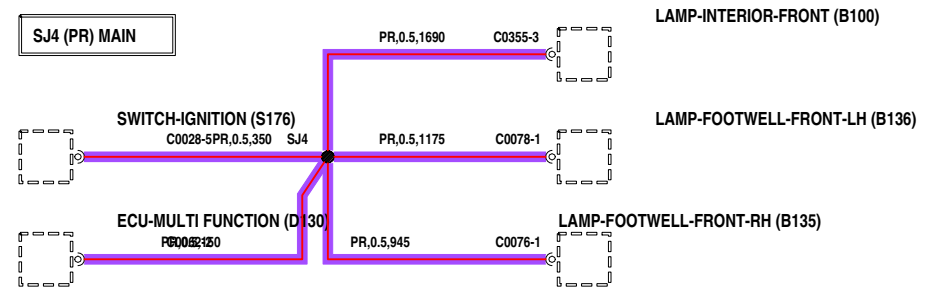
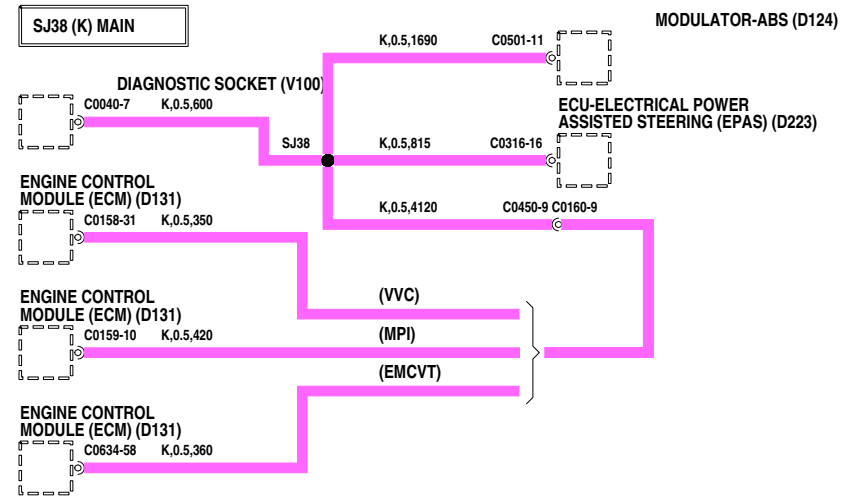
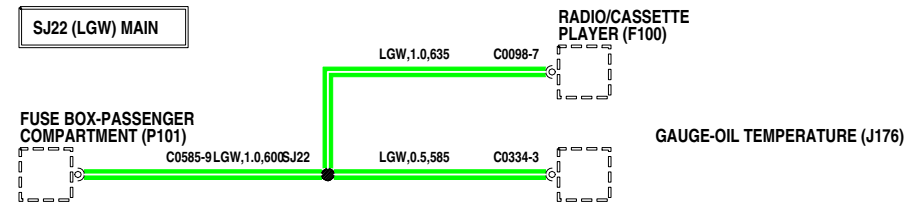
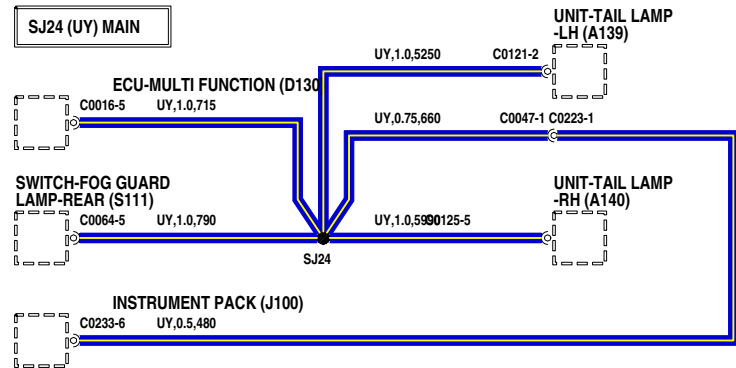
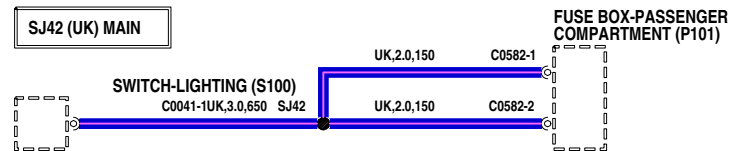
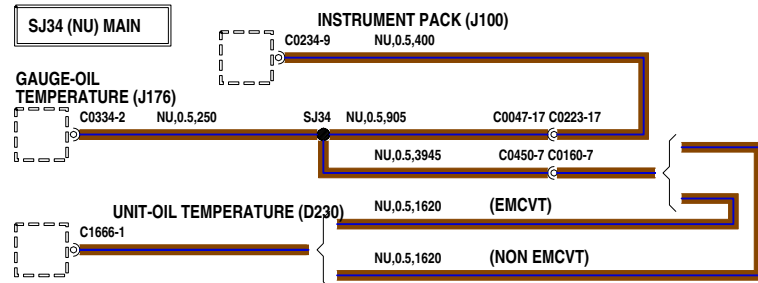
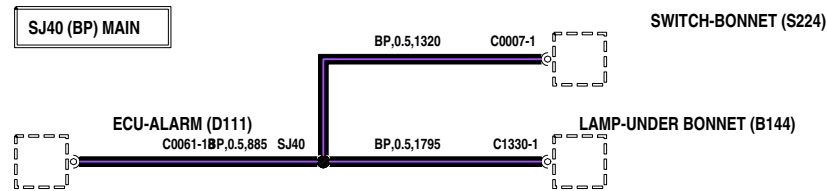
SPLICES AND CENTRE TAPS



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