



Electrical Circuit Diagrams

Elektrische Circuitdiagrammen

Schémas électriques

Elektrische Schaltpläne

Schemi elettrici

Esquemas de Circuitos Eléctricos

Diagramas dos Circuitos Eléctricos

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LRL 0436ENG 2nd Edition

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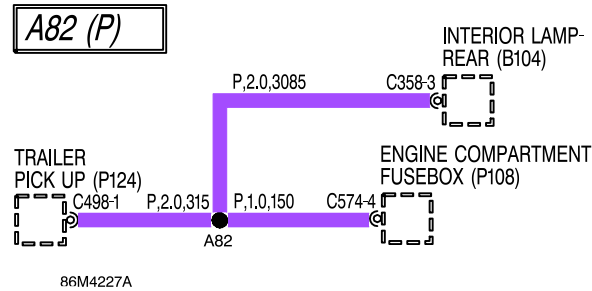
HOW TO USE THE CIRCUIT DIAGRAMS

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 Wire Type information given below.

Wire type

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

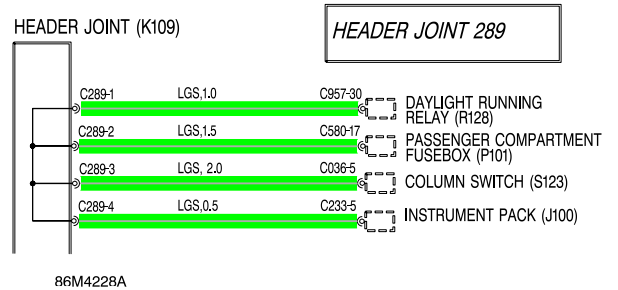
Code	Description
MAB	Twin core screened wire
MAH	Coaxial screened wire
MAT	Twin core double sheath
MCA	Twisted core screened wire
MD*	Twisted core ABS sensor wire
ME*	Twisted pair of wires min. 33 twists per metre
MM*	Twisted pair of wires
MQ*	Twin core foil screened cable
MZ*	Three core screened flexible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

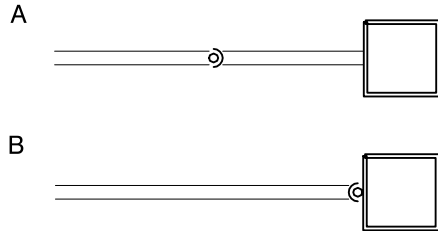
HOW TO USE THE CIRCUIT DIAGRAMS

Line Types



86M4229A

This means the wire connects to another circuit.



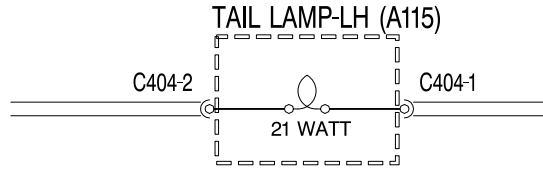
86M4230A

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.

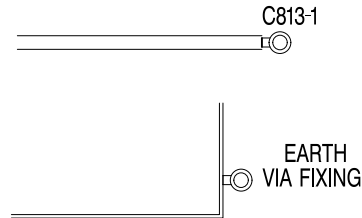
Components



86M4231A

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

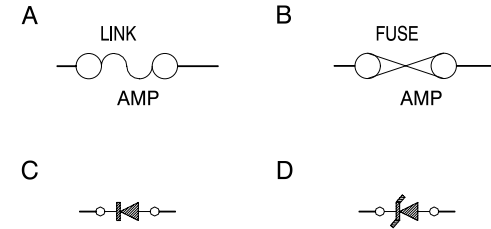
Earth points



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



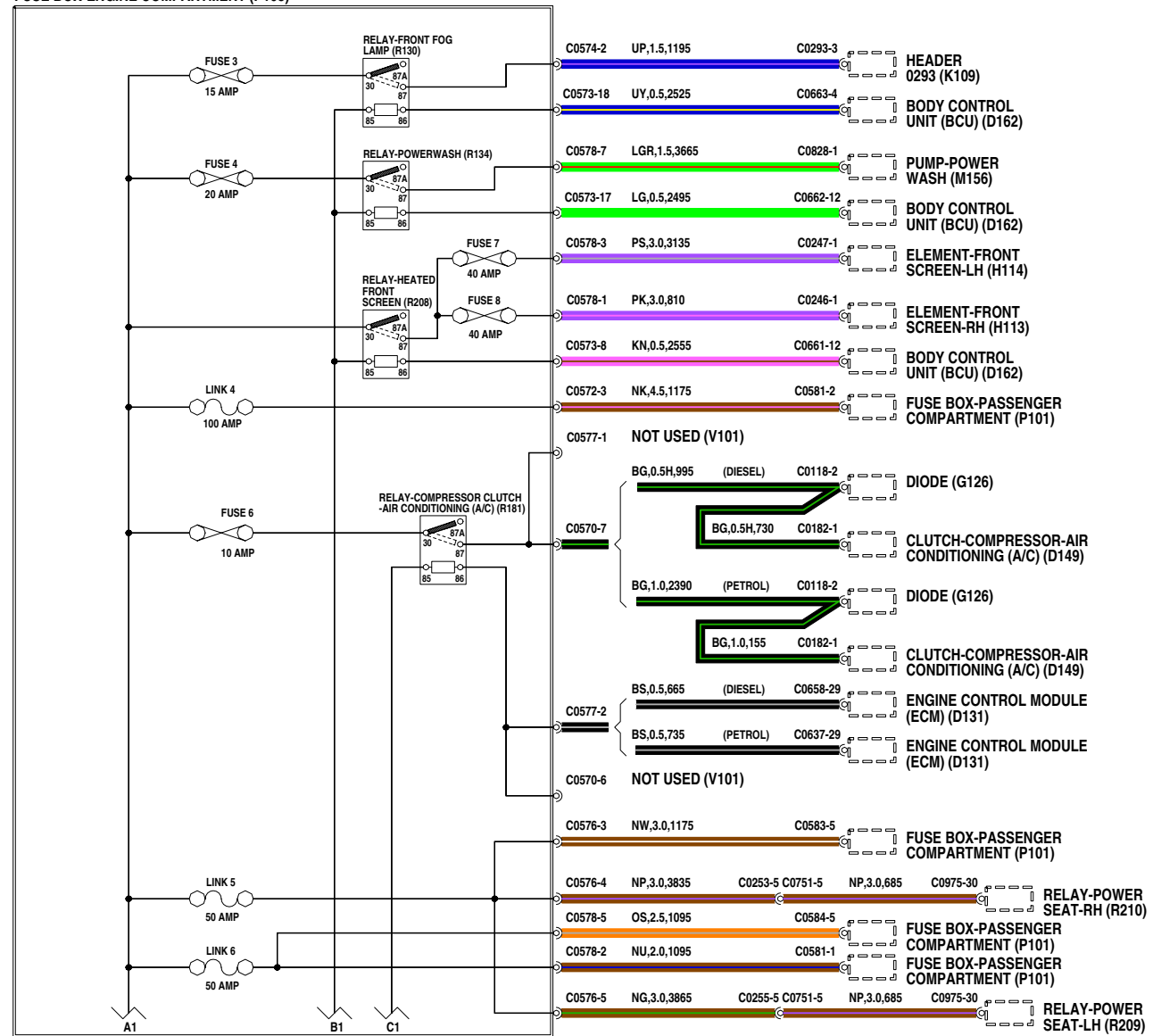
86M4234A

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

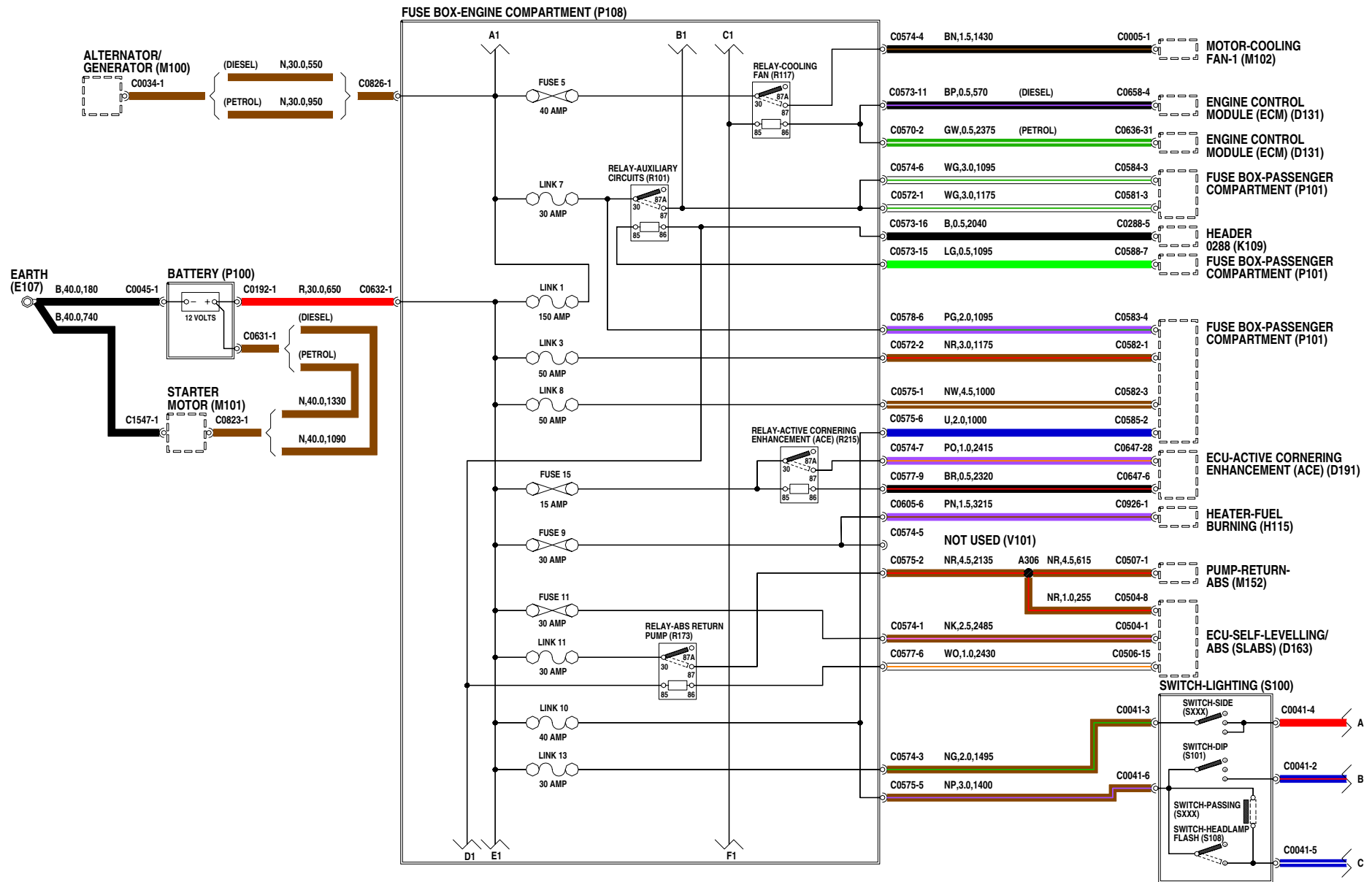
The direction of the arrow in a Diode symbol (C) indicates the direction of current flow. The Zener diode (D) - prevents current flow until a precise voltage is reached.

POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX

FUSE BOX-ENGINE COMPARTMENT (P108)

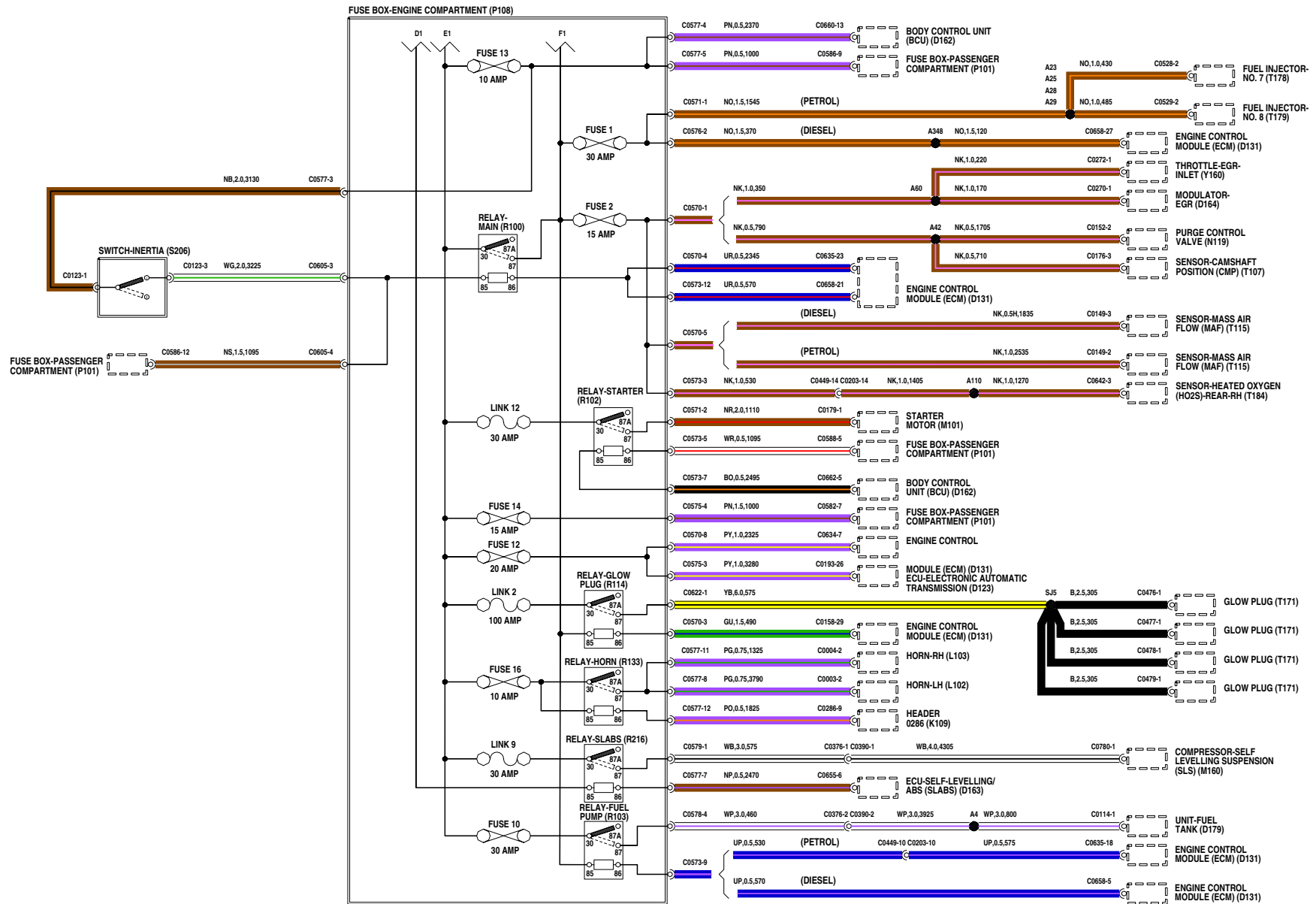


POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX



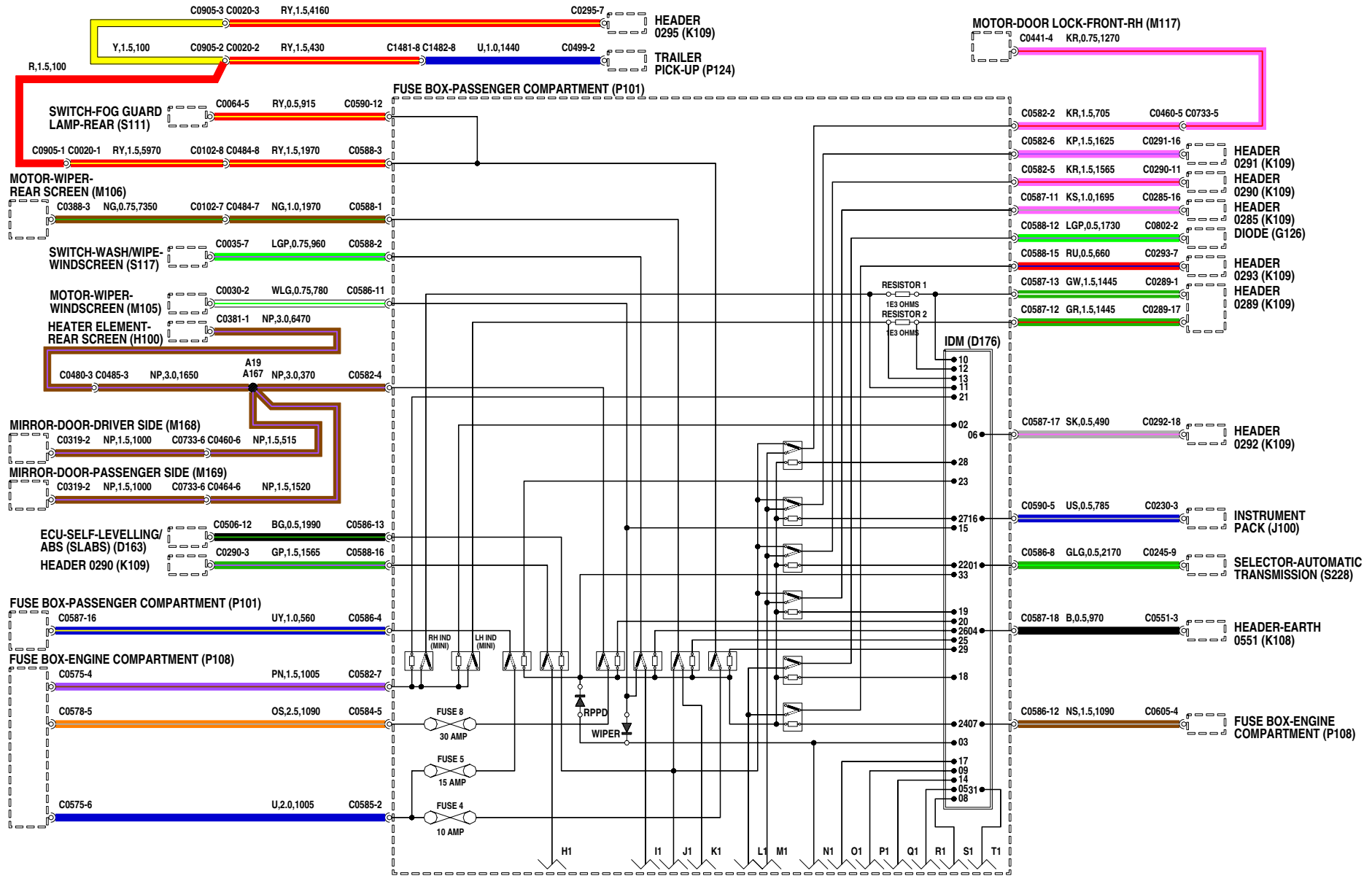
VWR108520-2of6

POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX



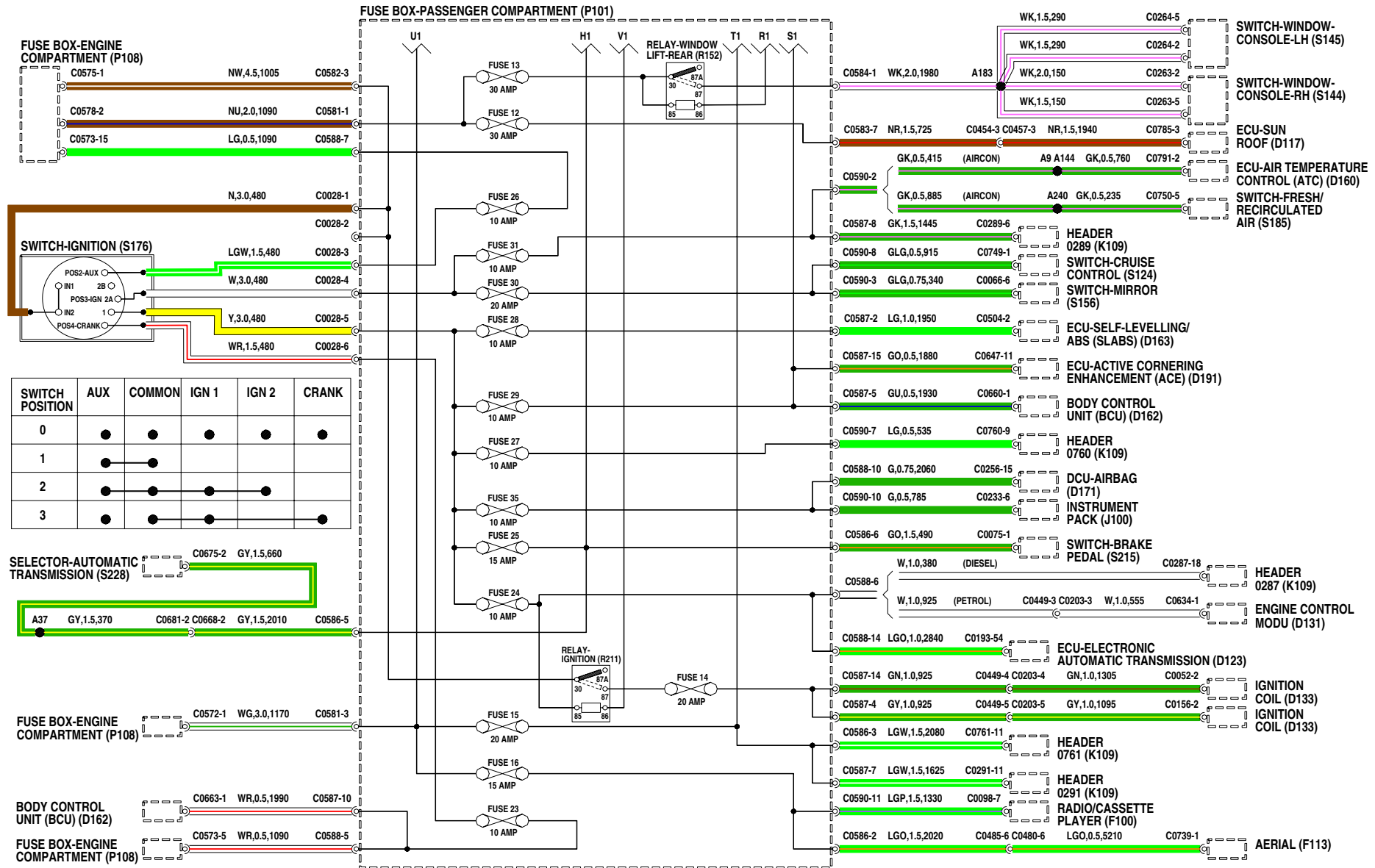
VWR108520-3of6

POWER DISTRIBUTION PASSENGER COMPARTMENT FUSEBOX



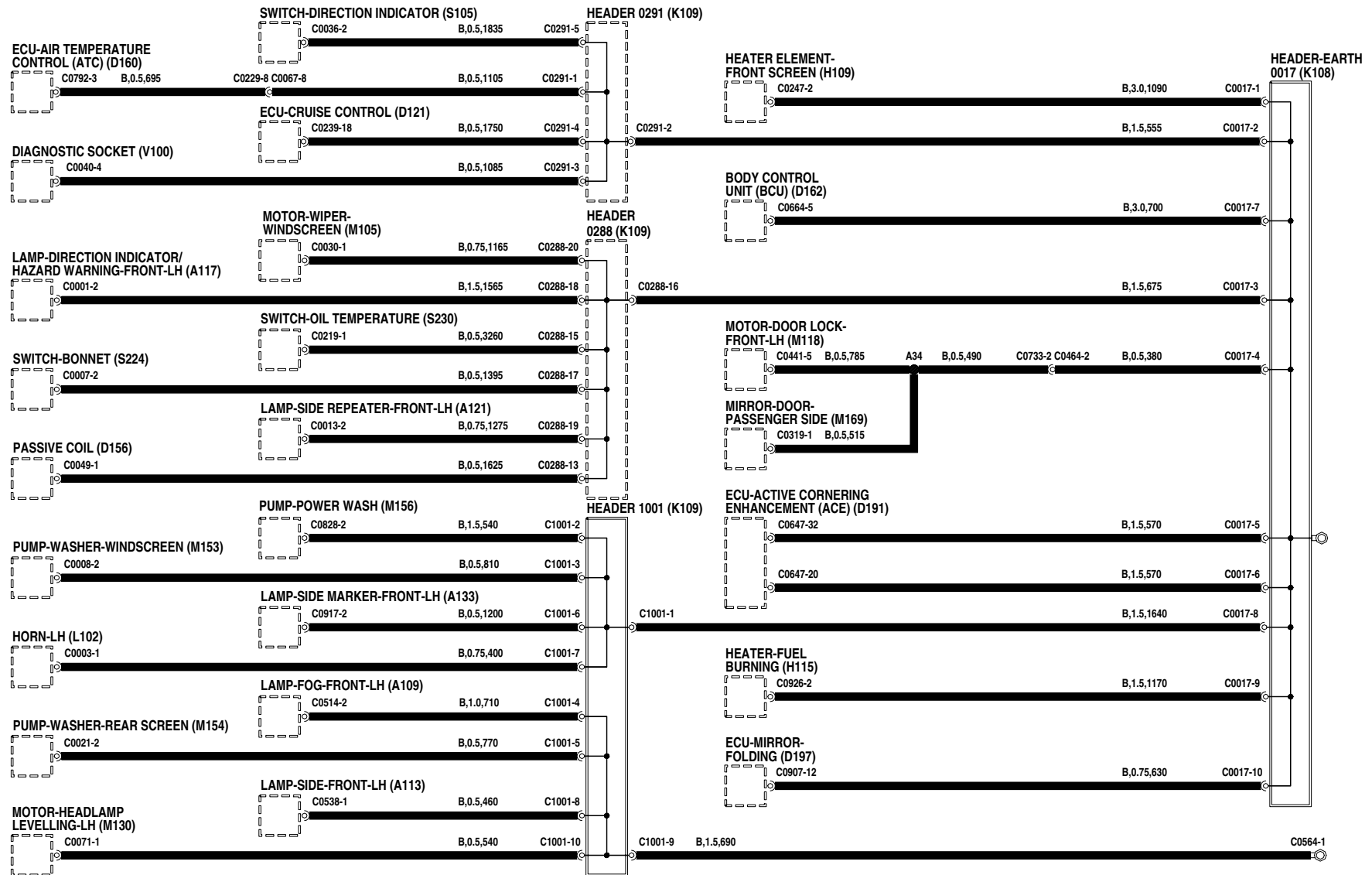
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POWER DISTRIBUTION PASSENGER COMPARTMENT FUSEBOX

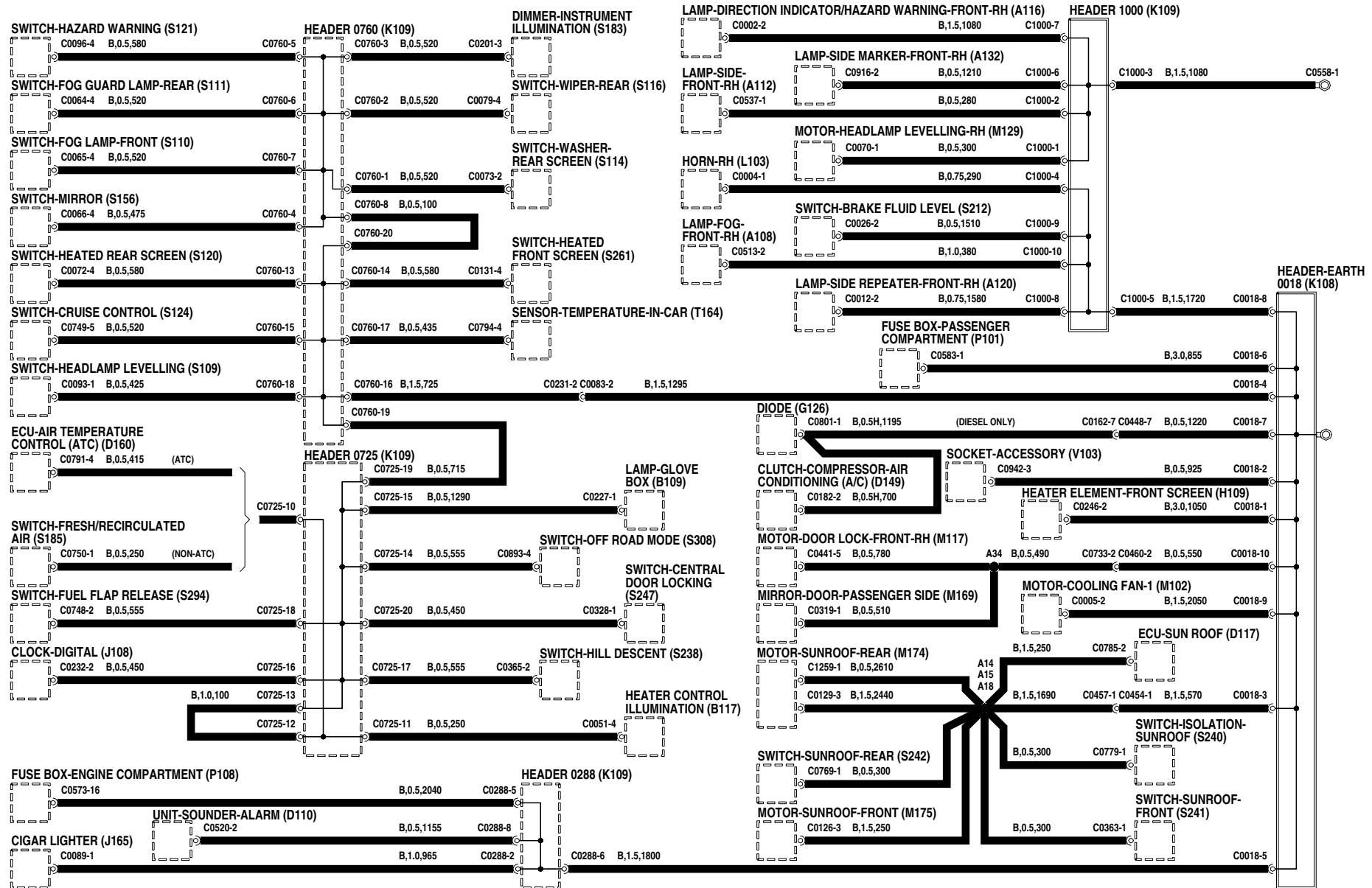


VWR108520-606

EARTH DISTRIBUTION

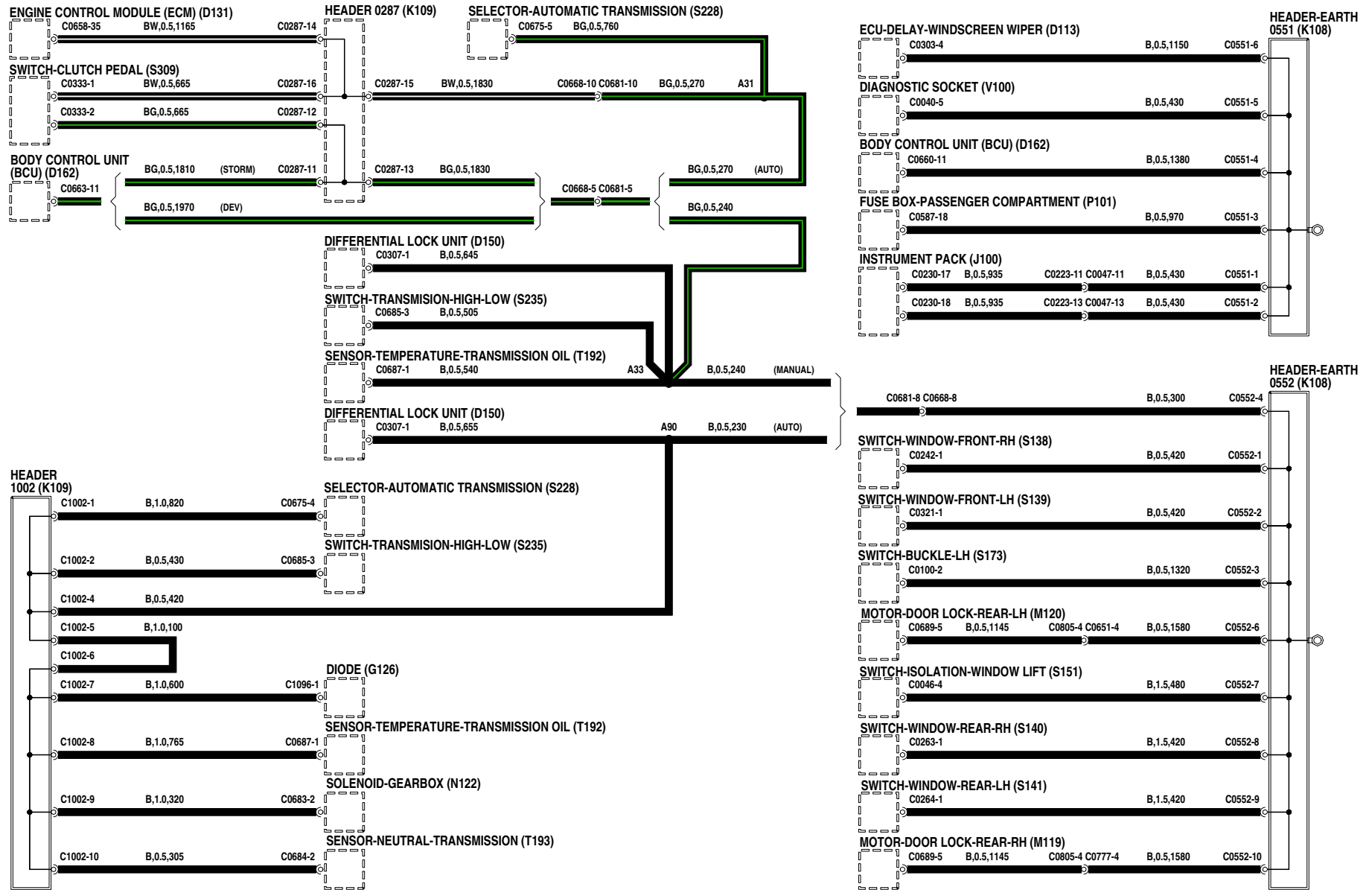


EARTH DISTRIBUTION



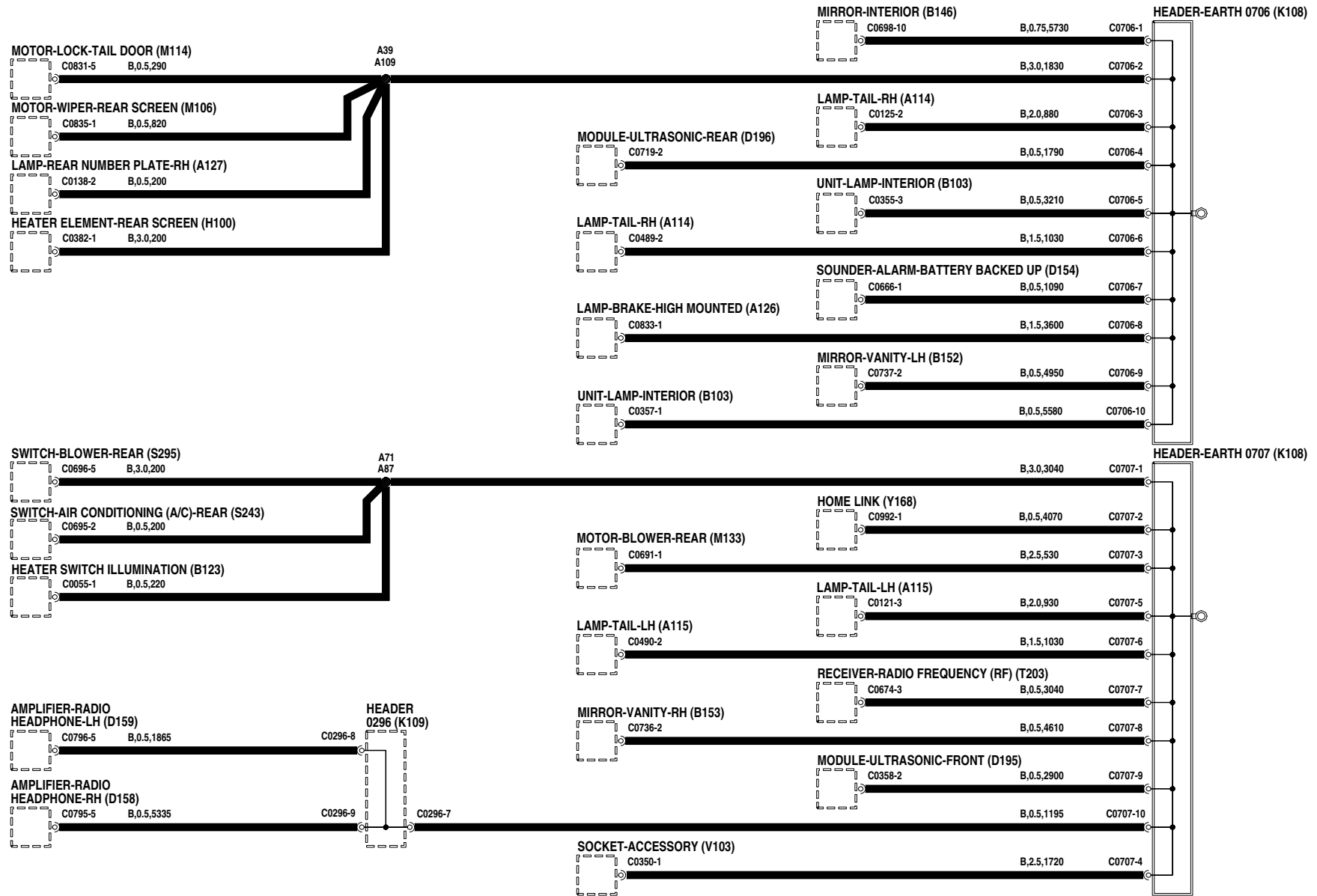
VWR108280-2017

EARTH DISTRIBUTION



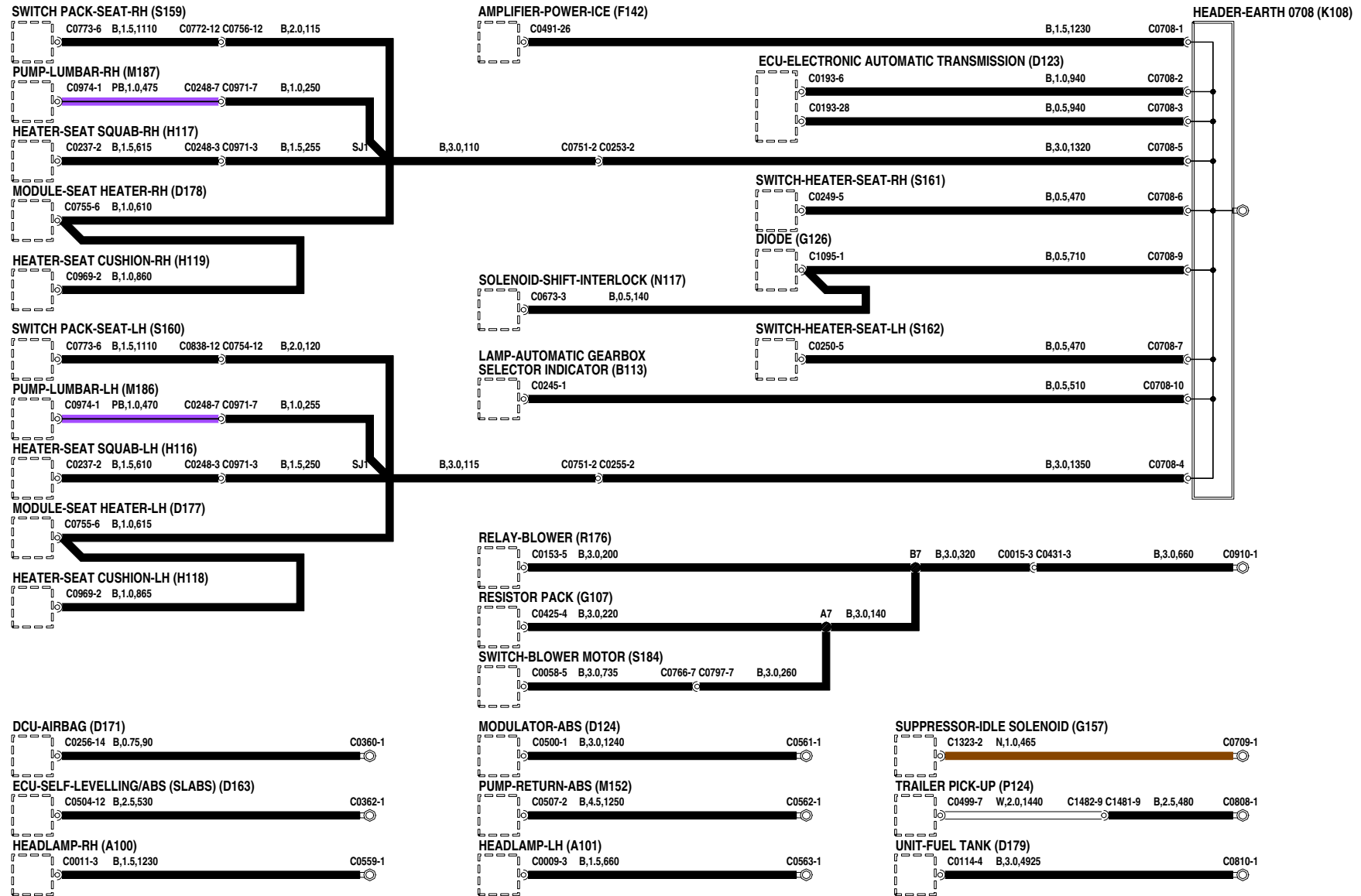
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EARTH DISTRIBUTION

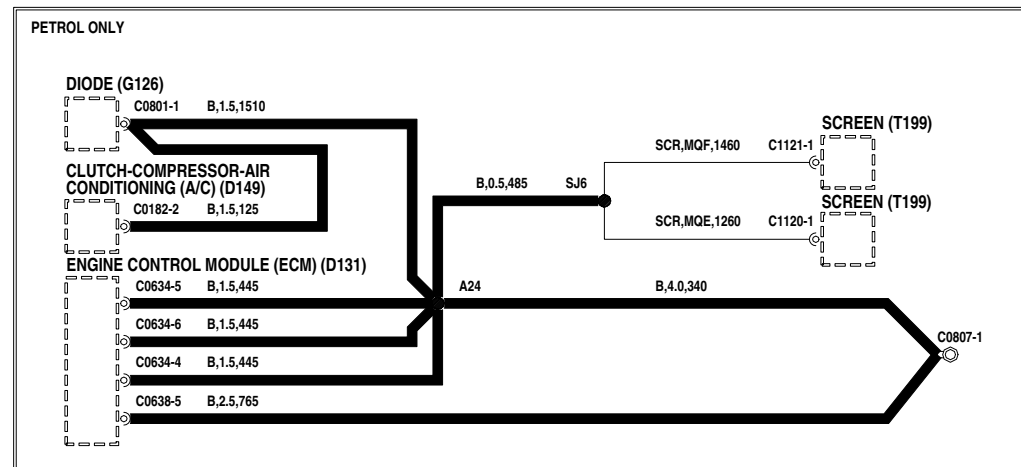
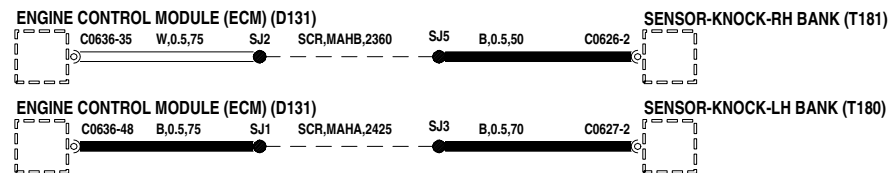
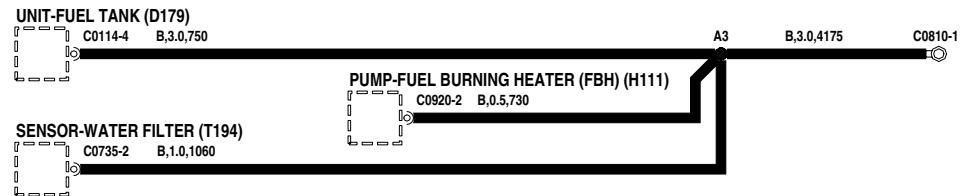
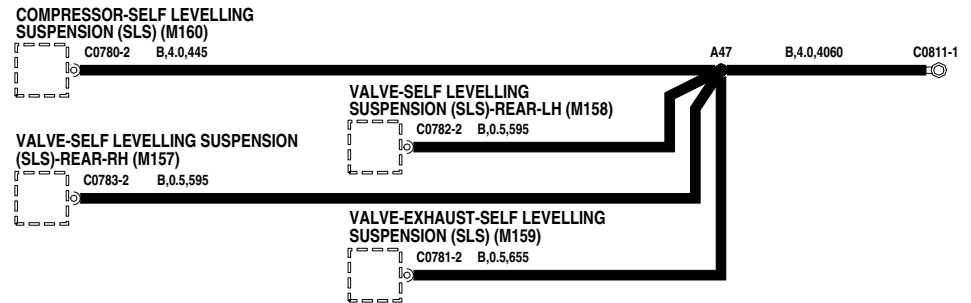
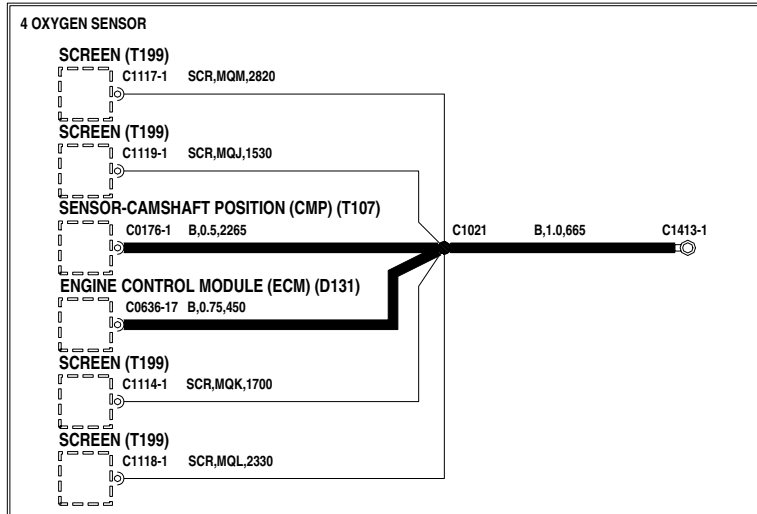
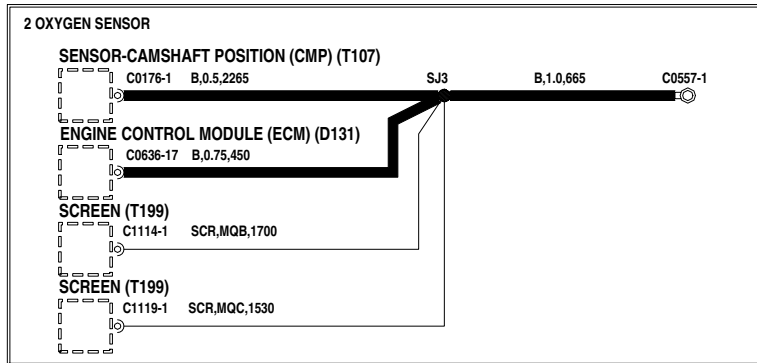
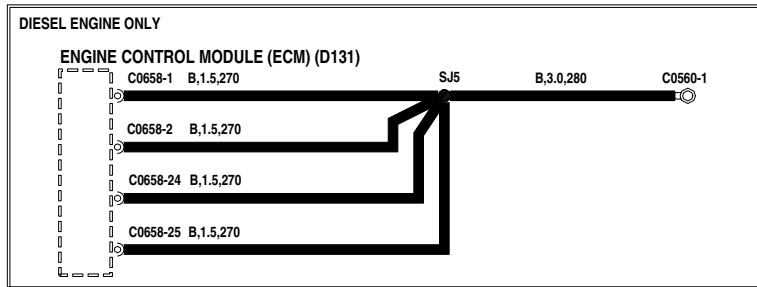


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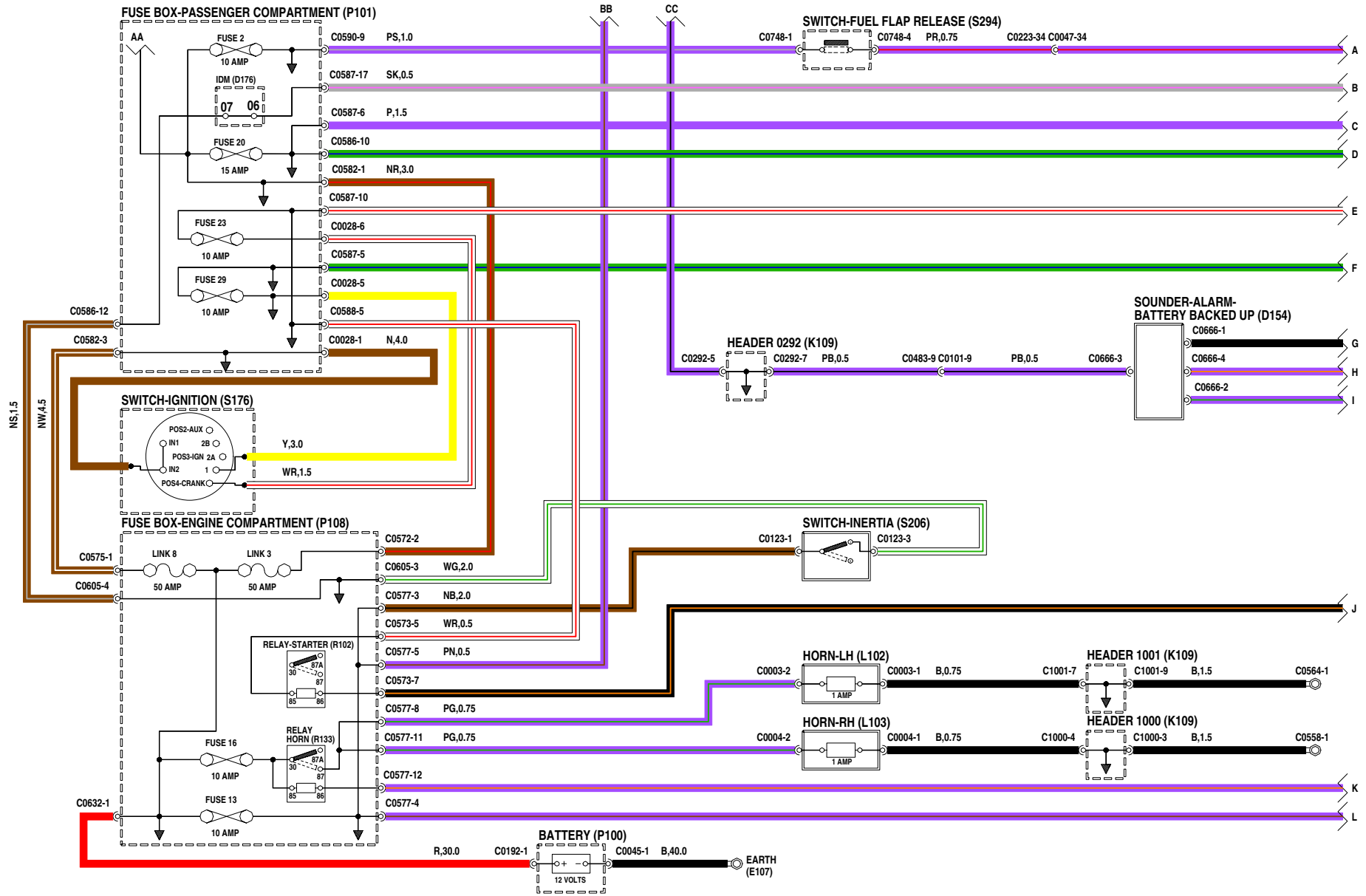
EARTH DISTRIBUTION



EARTH DISTRIBUTION

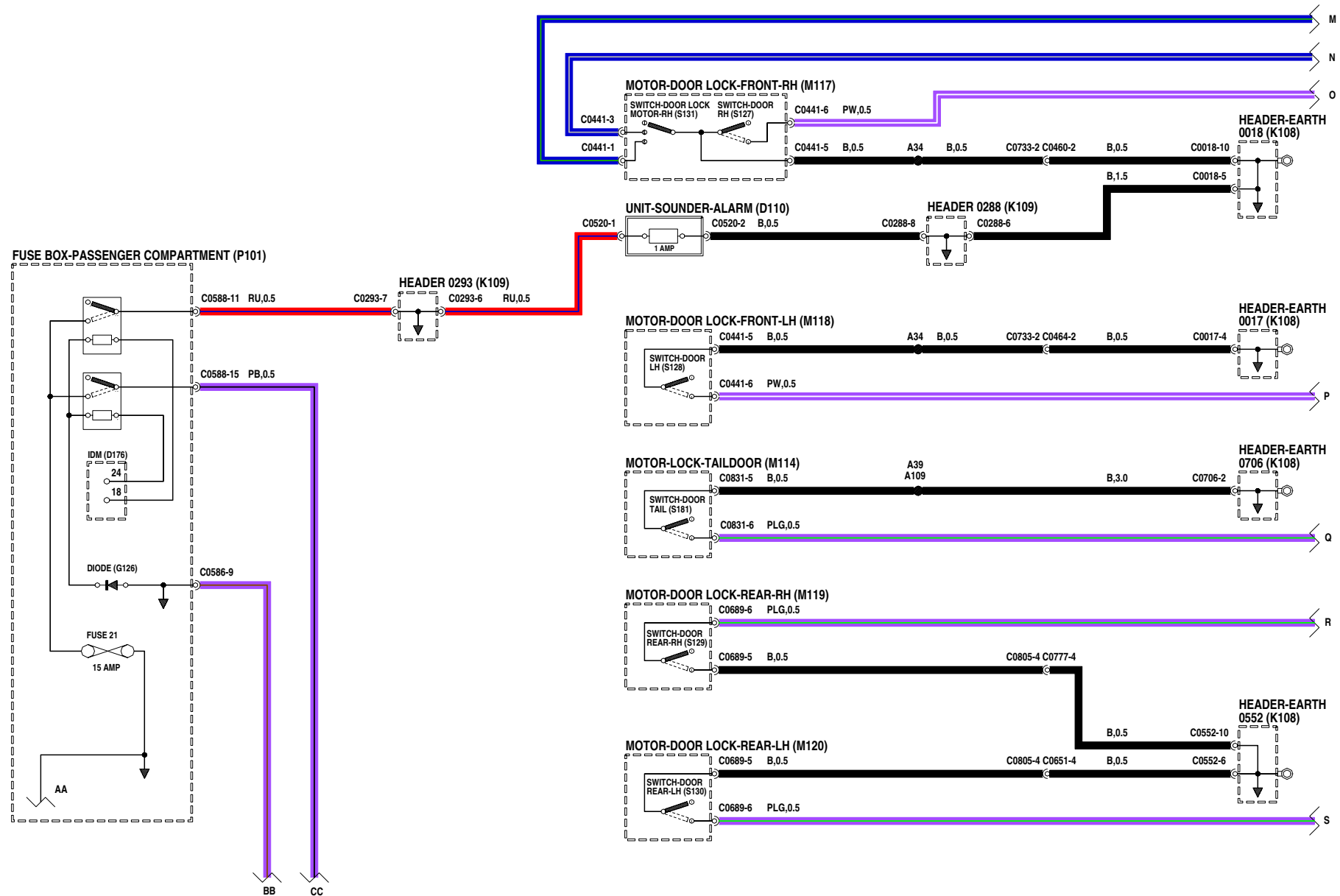


ANTI-THEFT ALARM



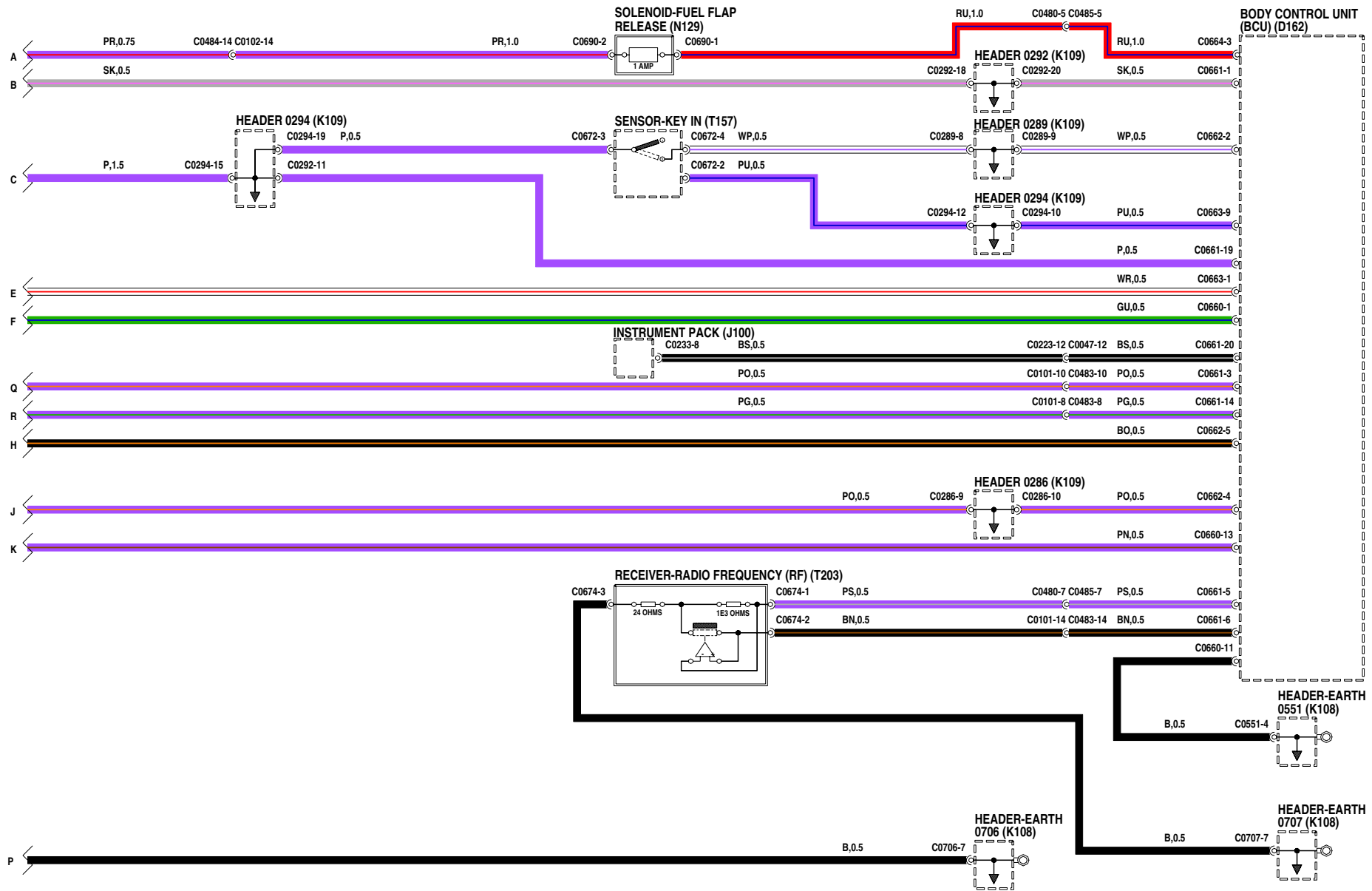
VWR108140-1of4

ANTI-THEFT ALARM



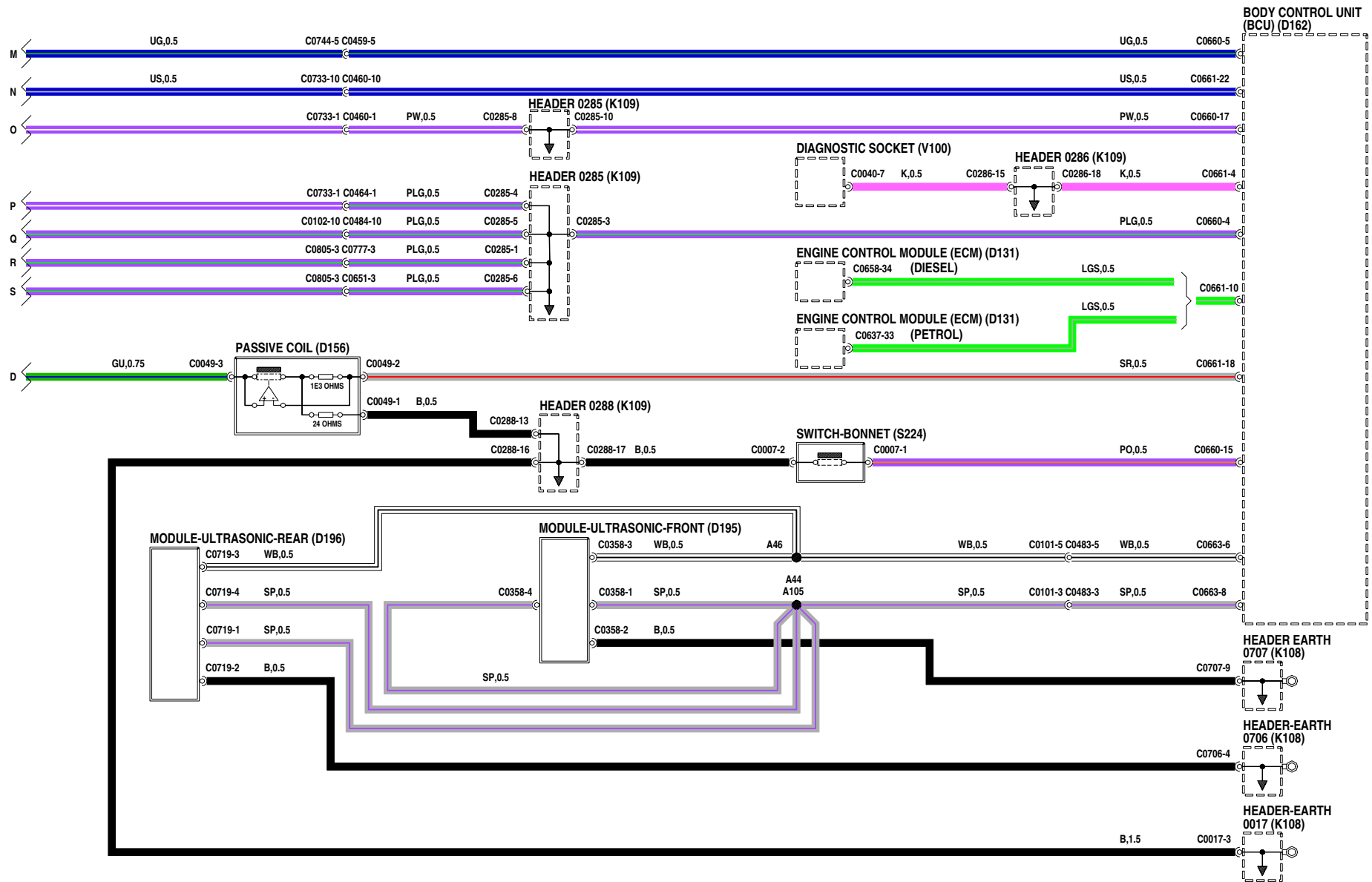
VWR108140-2of4

ANTI-THEFT ALARM



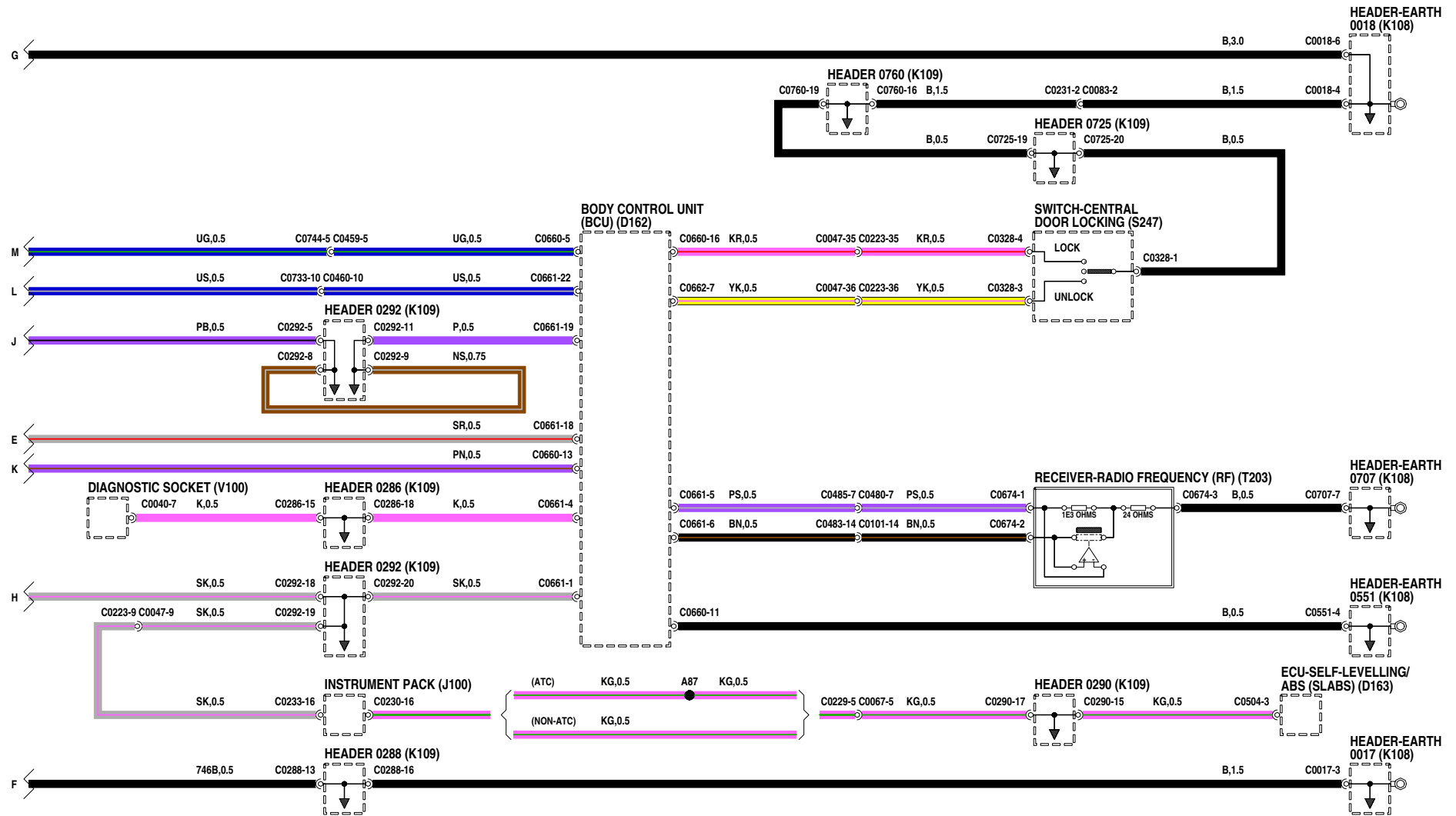
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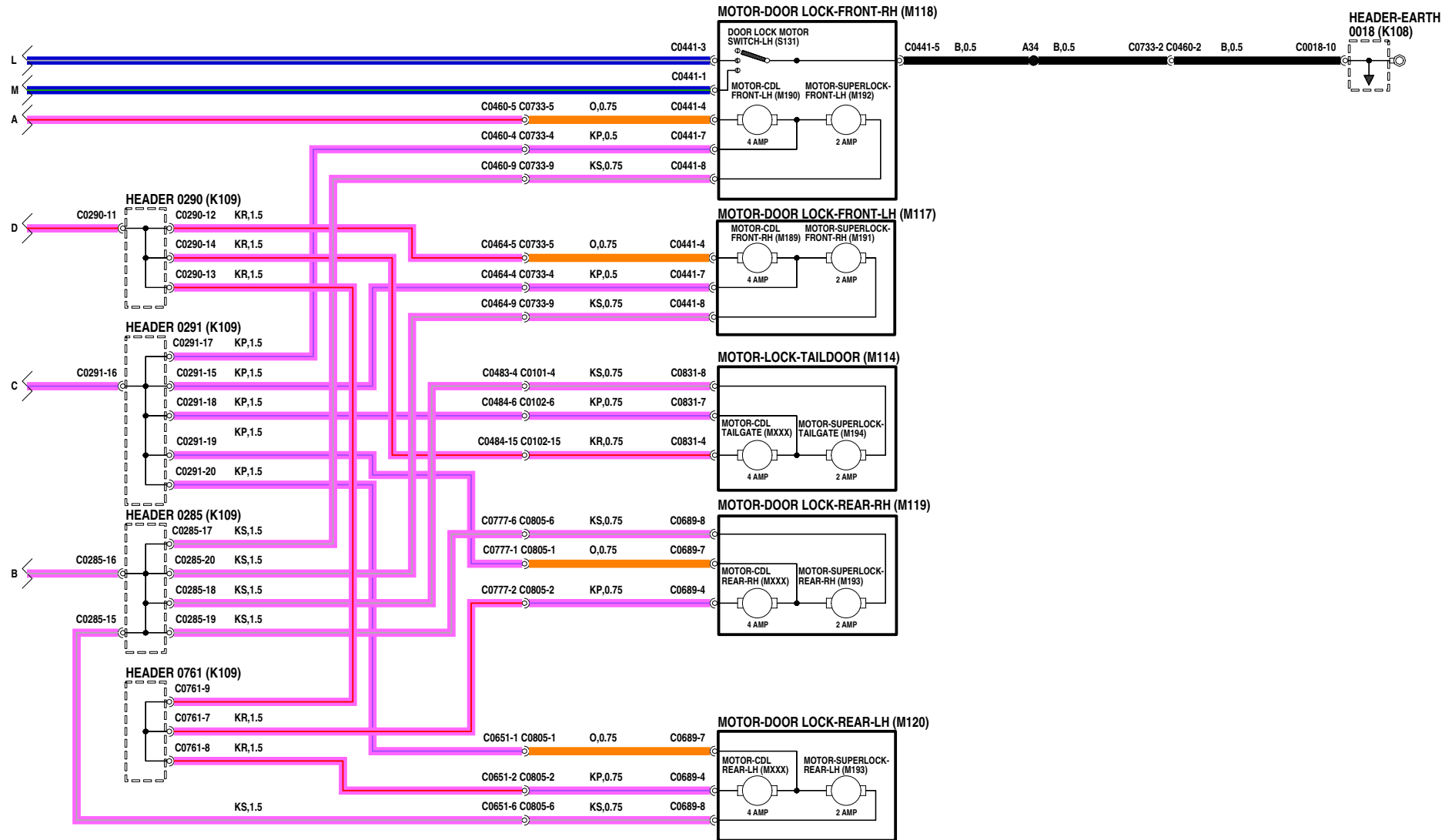


VWR108140-4c4

CENTRAL DOOR LOCKING

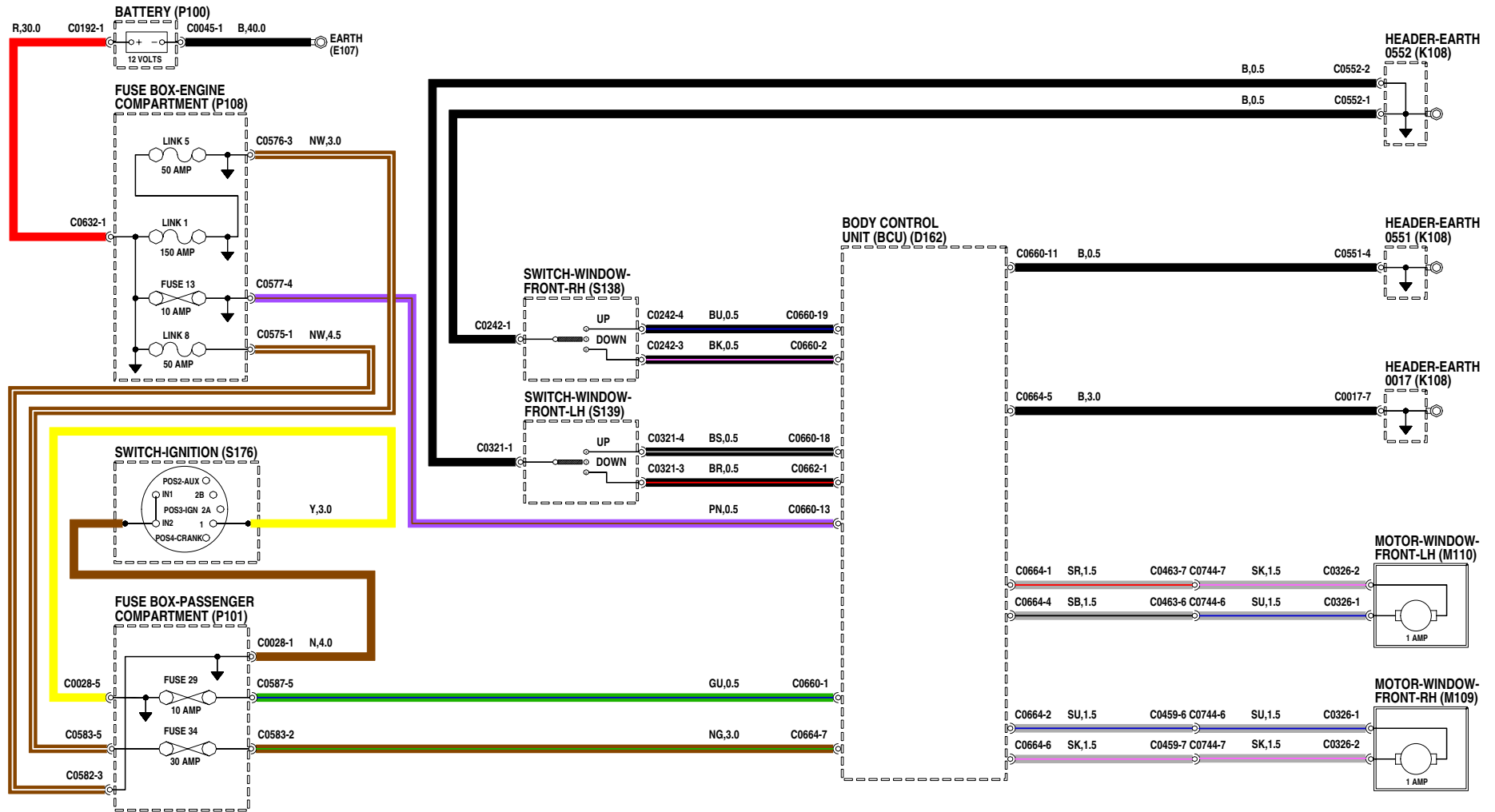


CENTRAL DOOR LOCKING

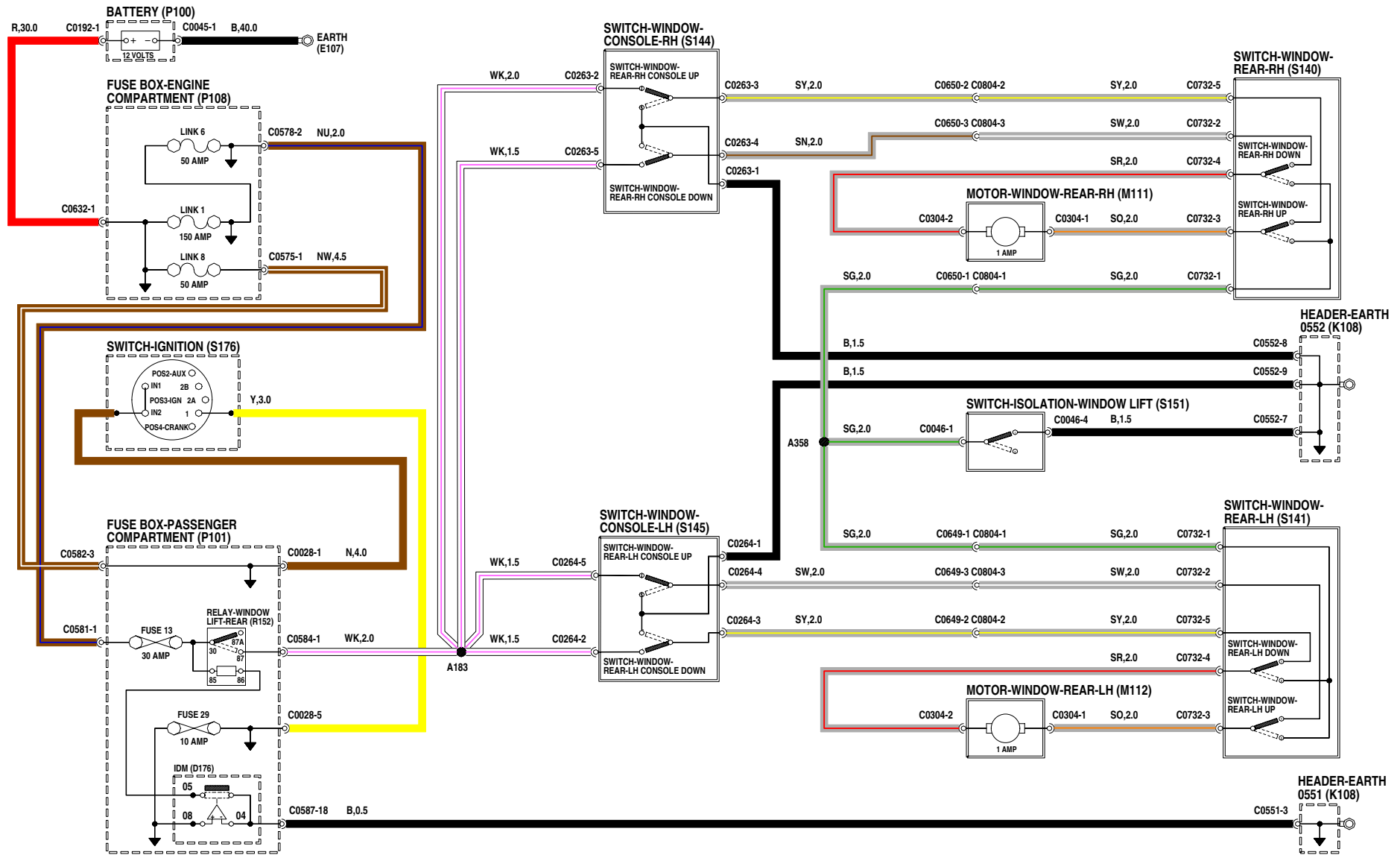


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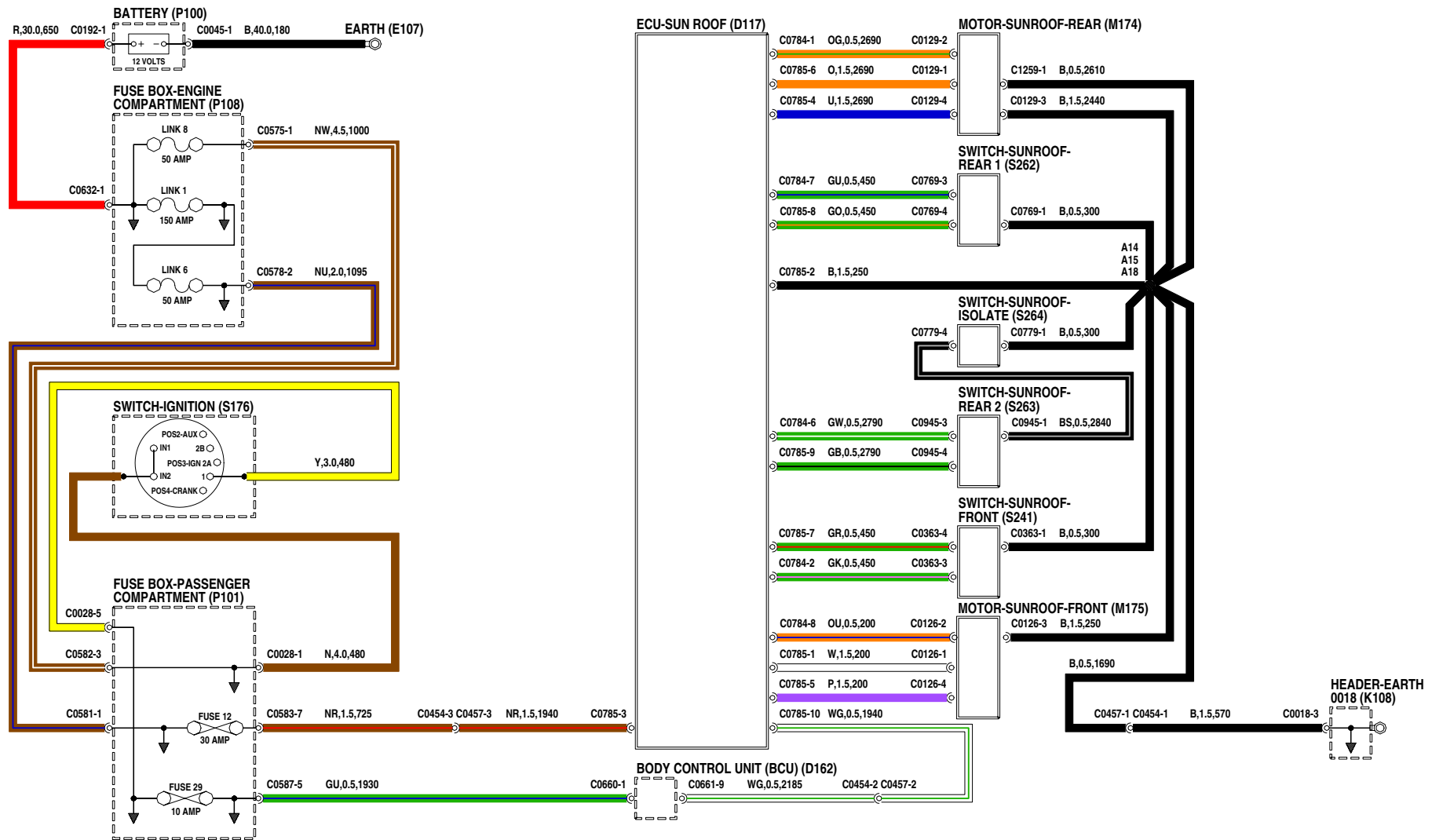
WINDOWS FRONT



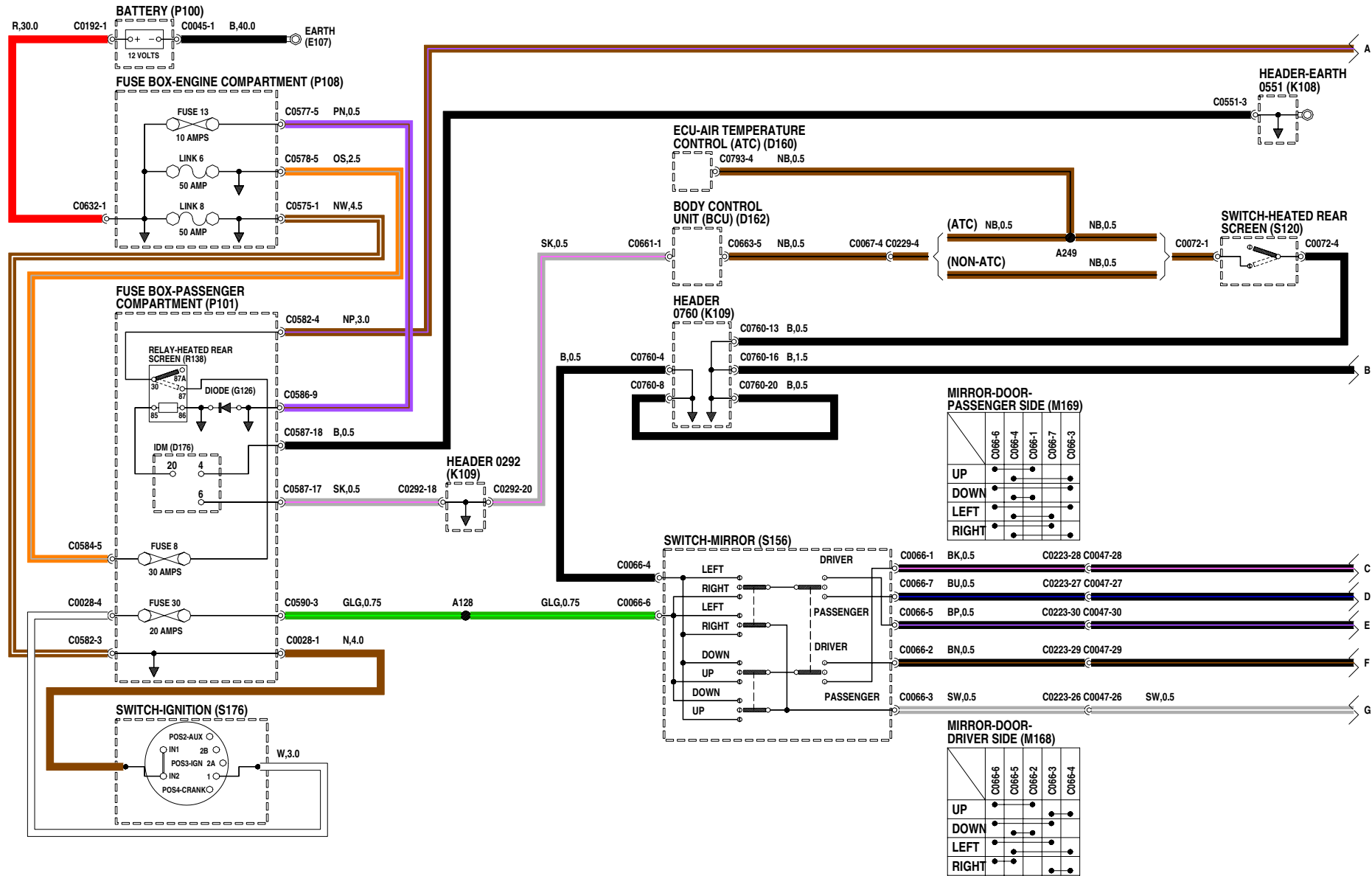
WINDOWS REAR



SUNROOF

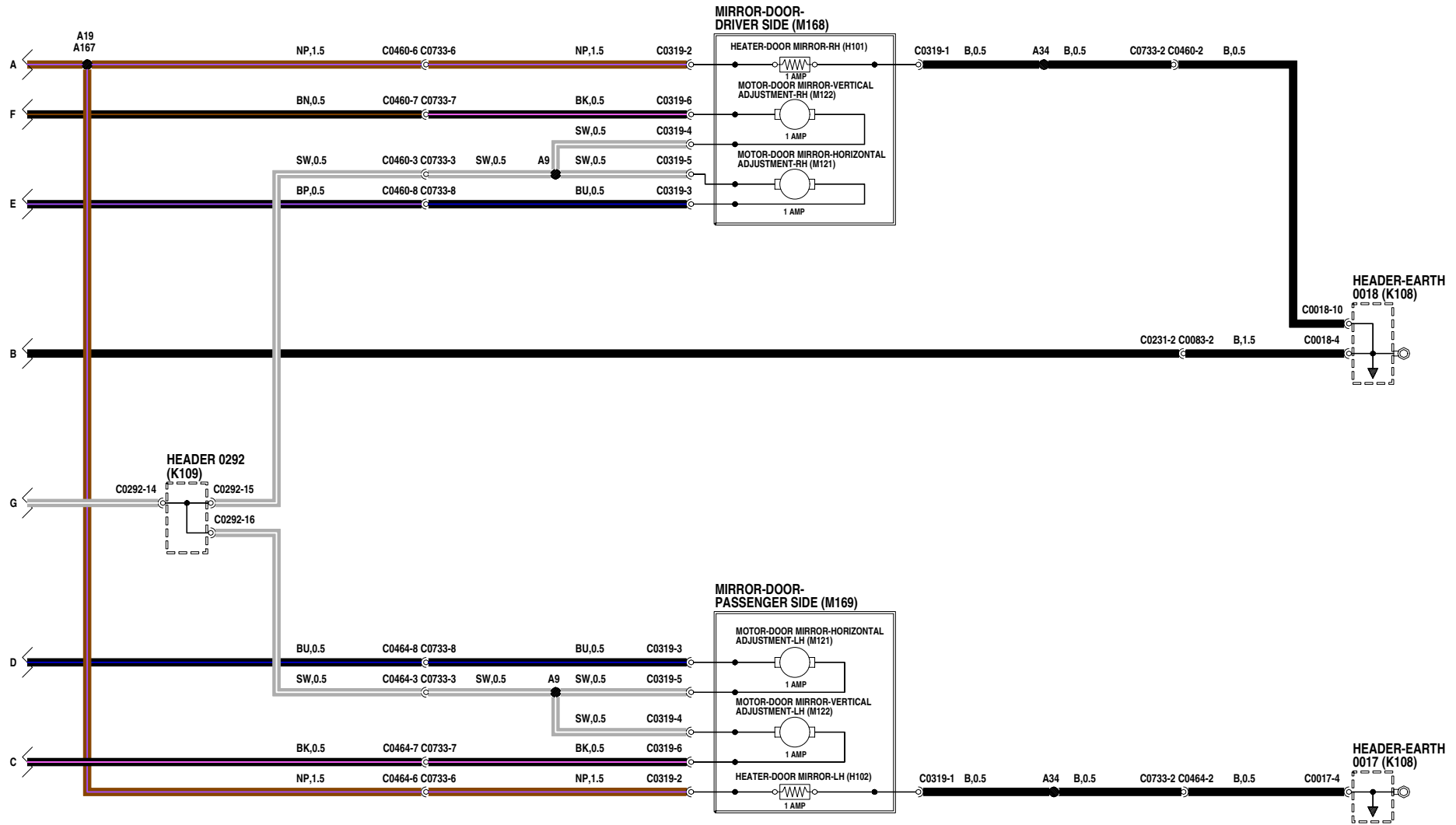


DOOR MIRRORS



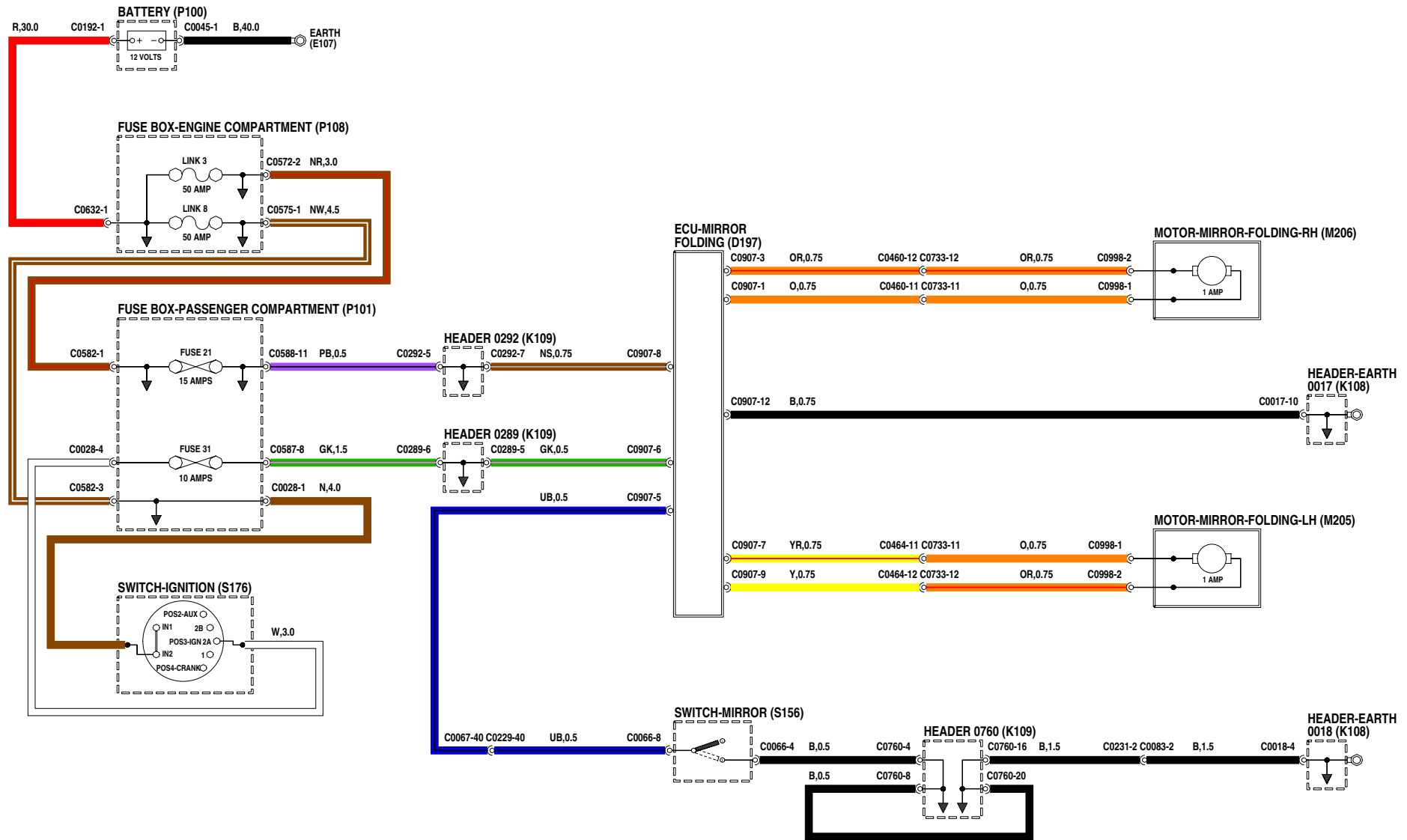
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DOOR MIRRORS



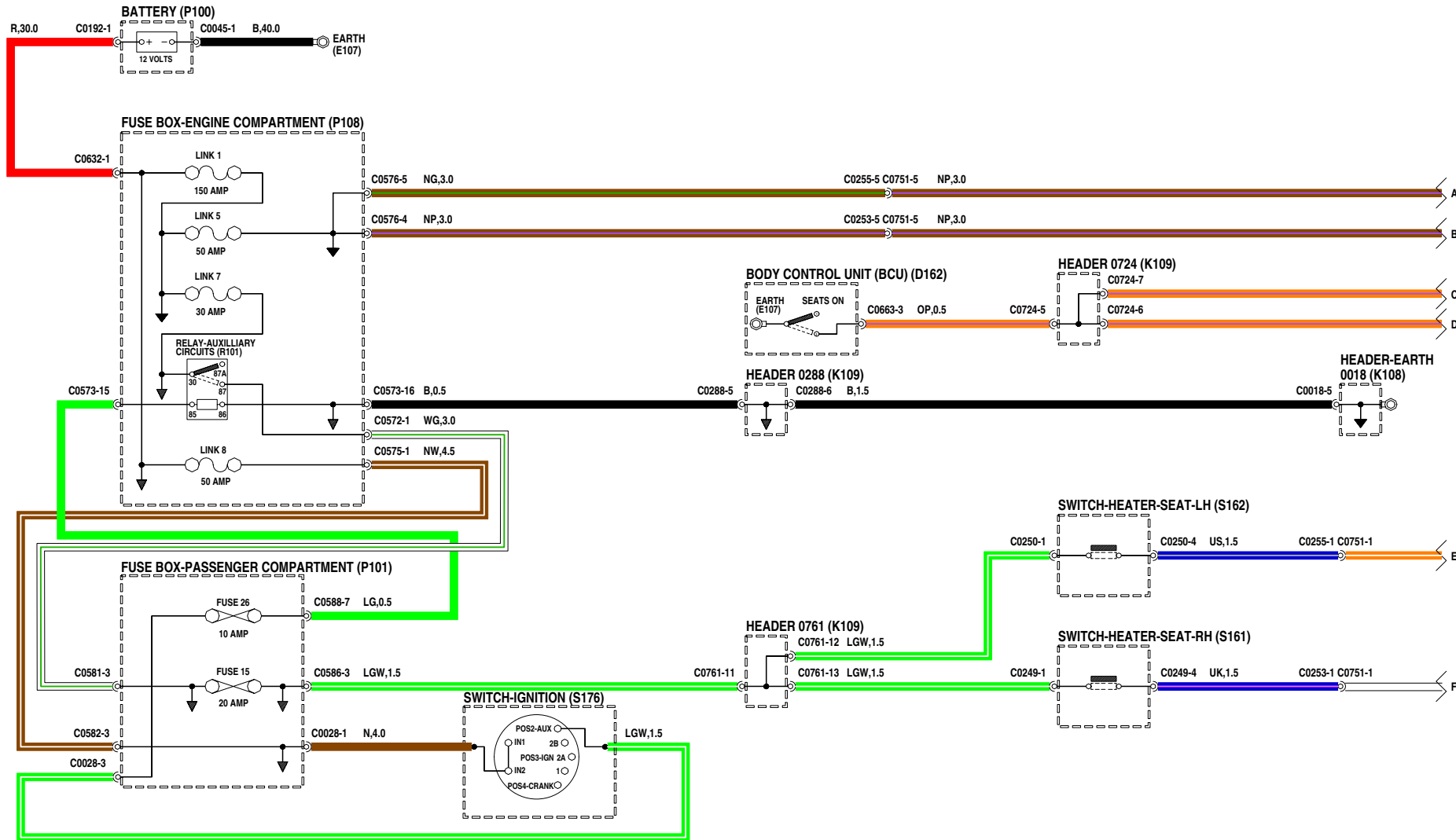
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FOLDING DOOR MIRRORS



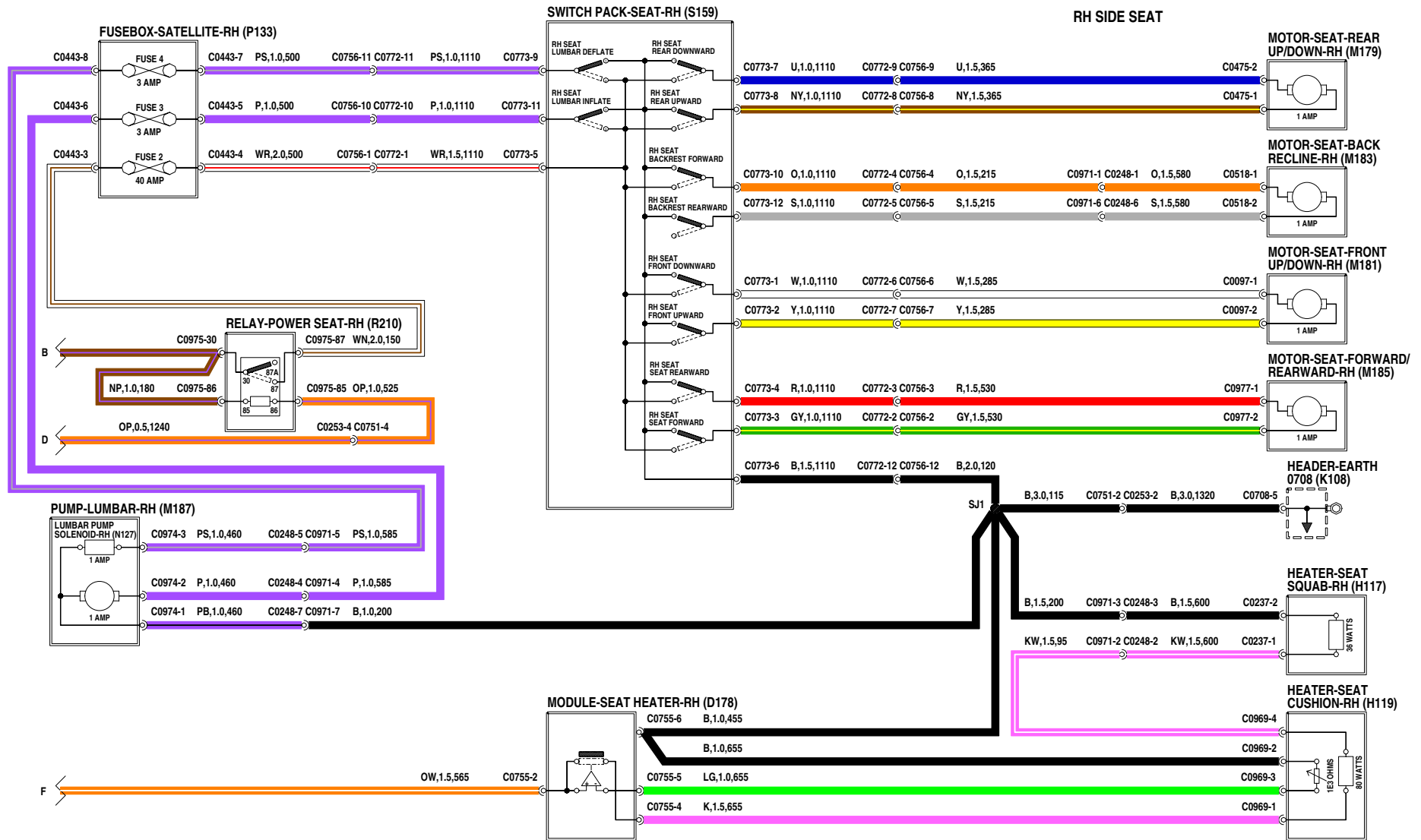
VWR108340-1of1

SEATS POWER - HEATED

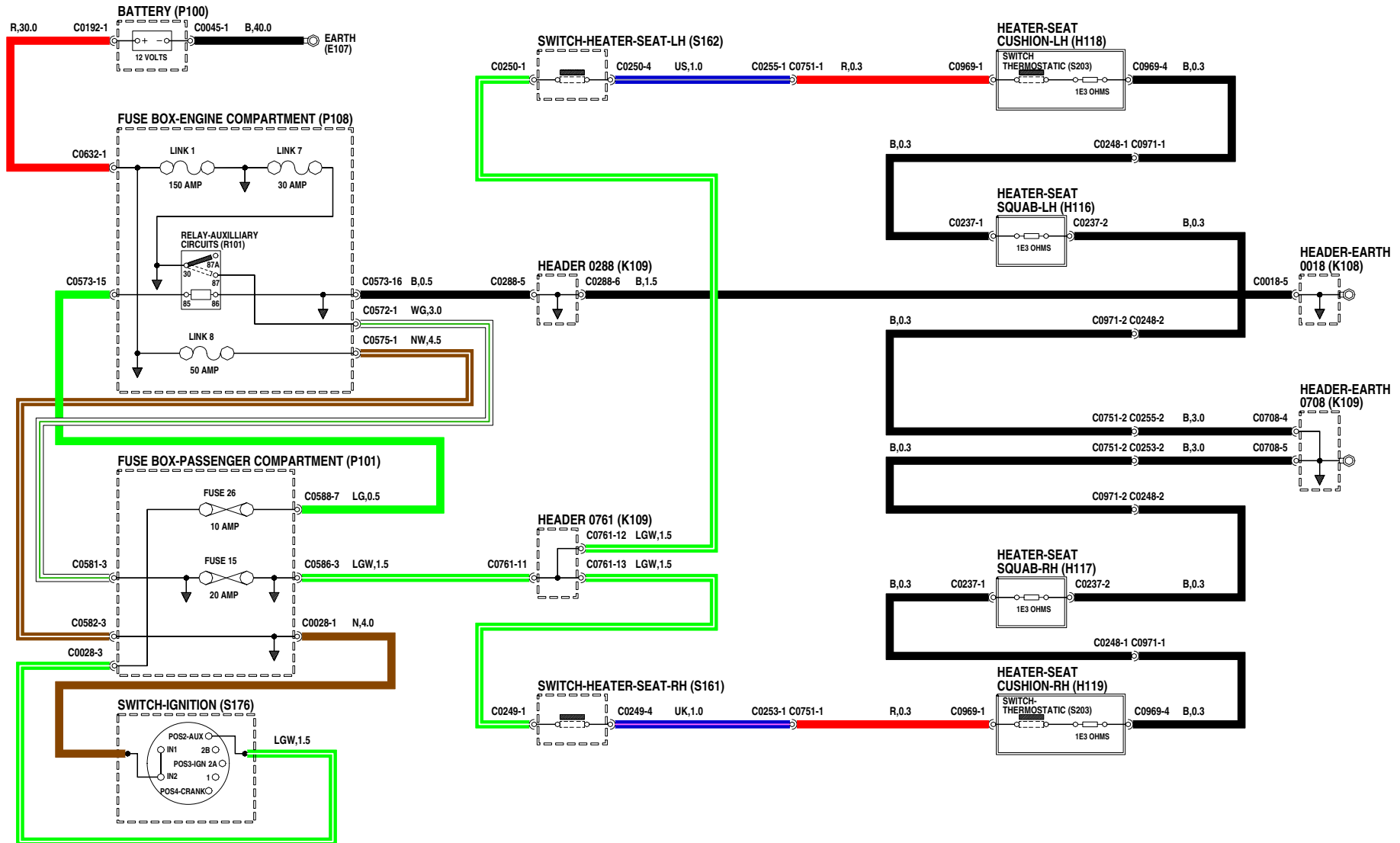


VWR108530-1of3

SEATS POWER - HEATED

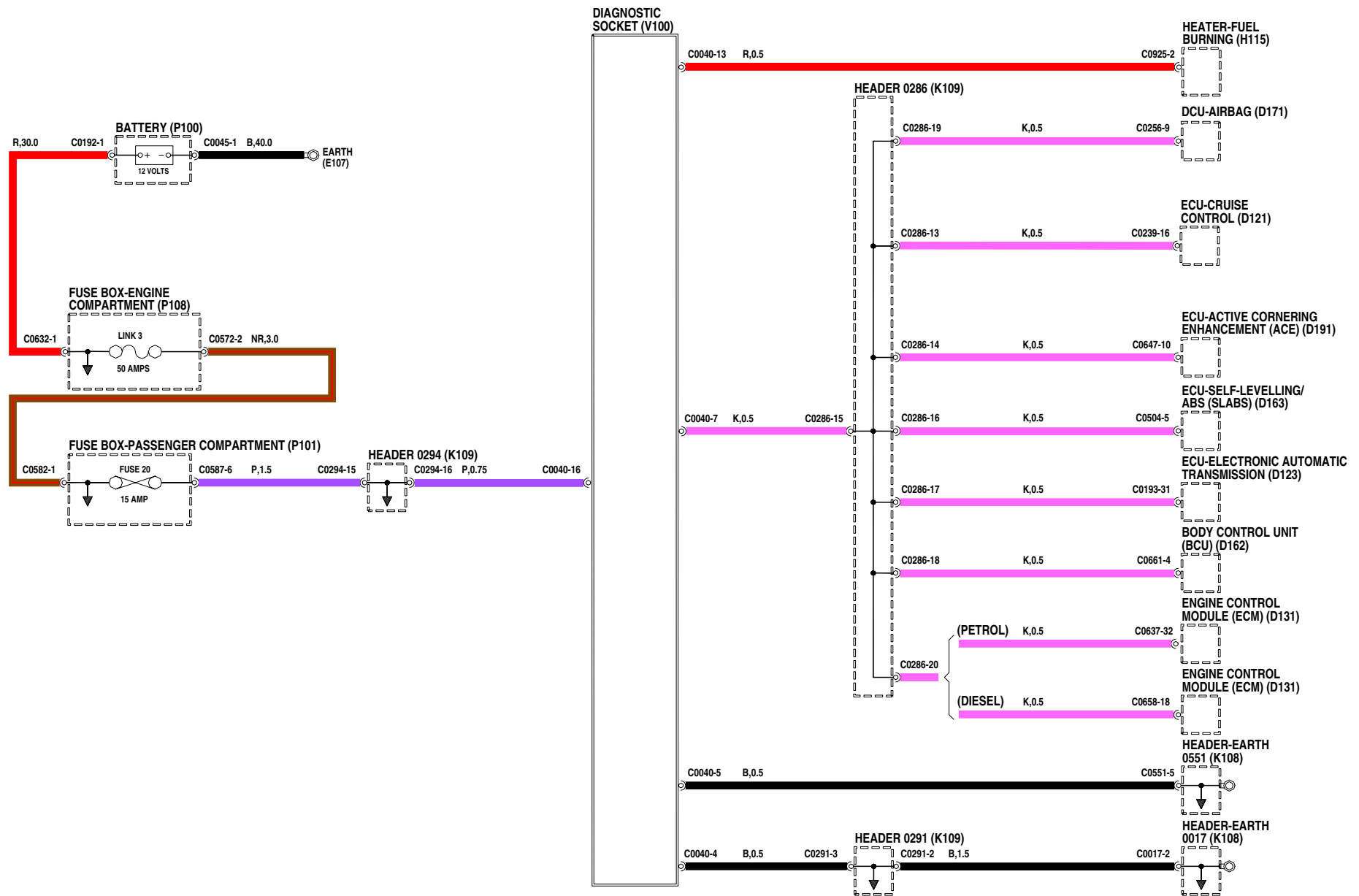


SEATS MANUAL - HEATED



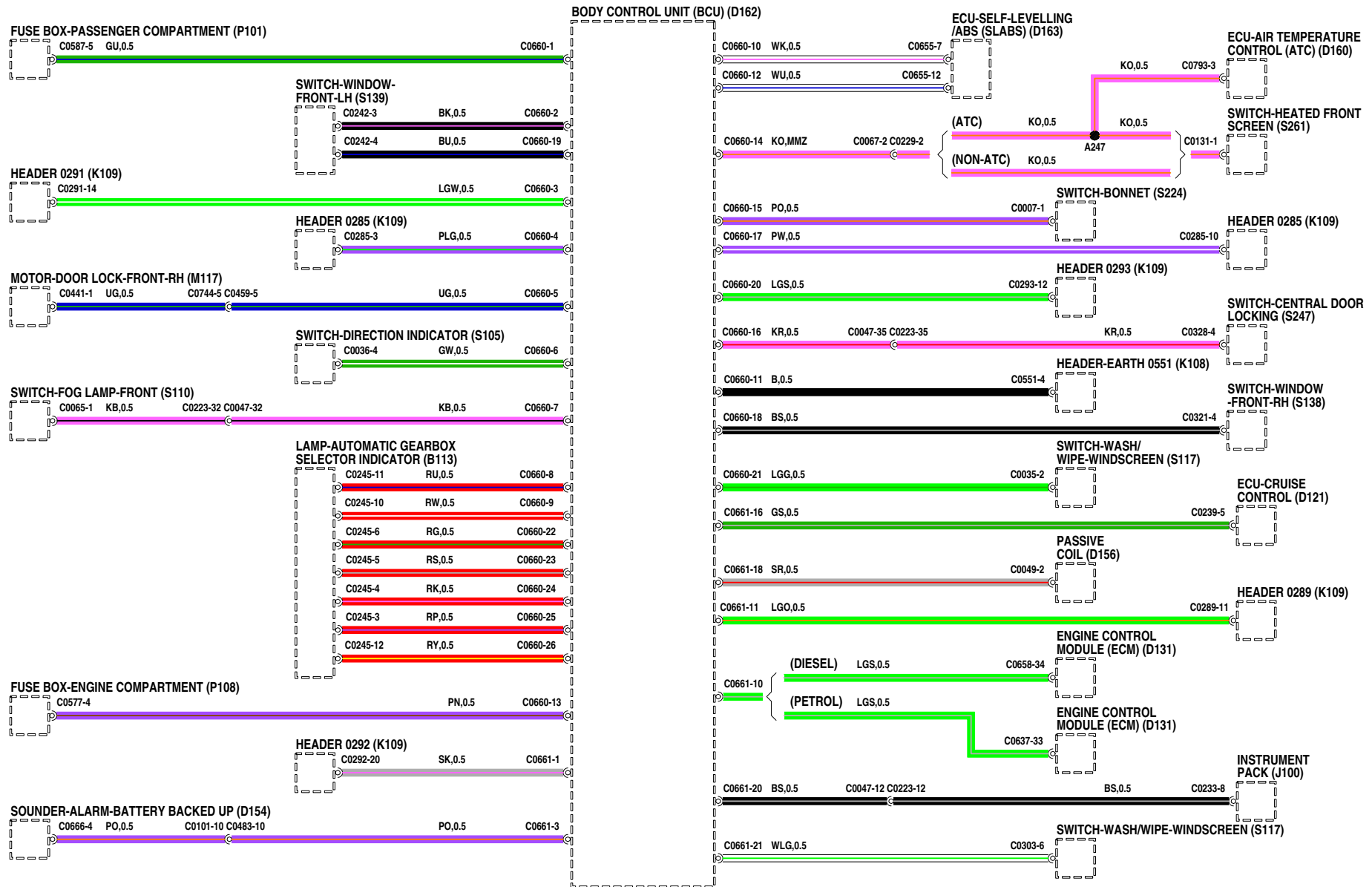
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DIAGNOSTIC SOCKET



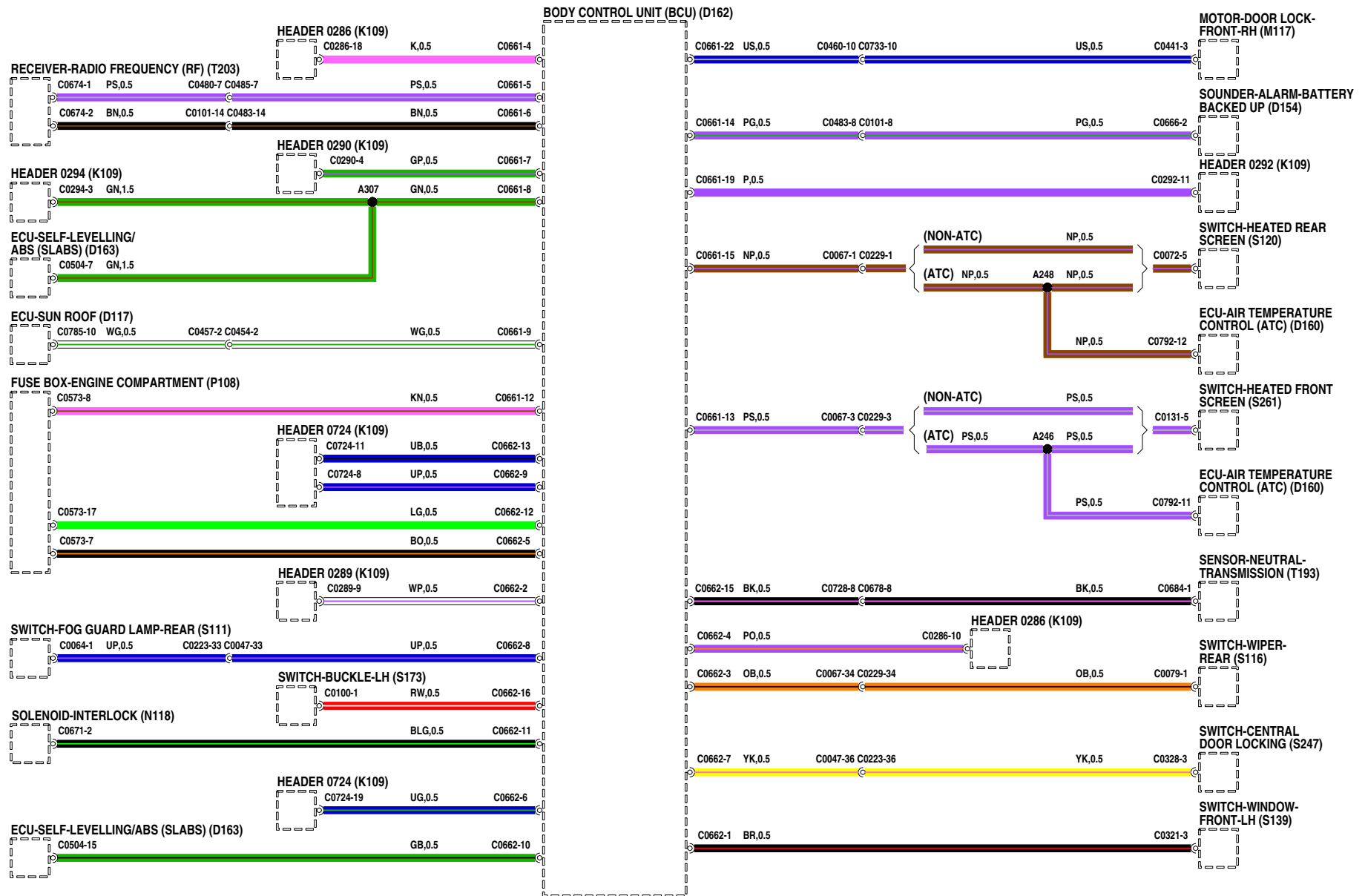
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BODY CONTROL UNIT (BCU)



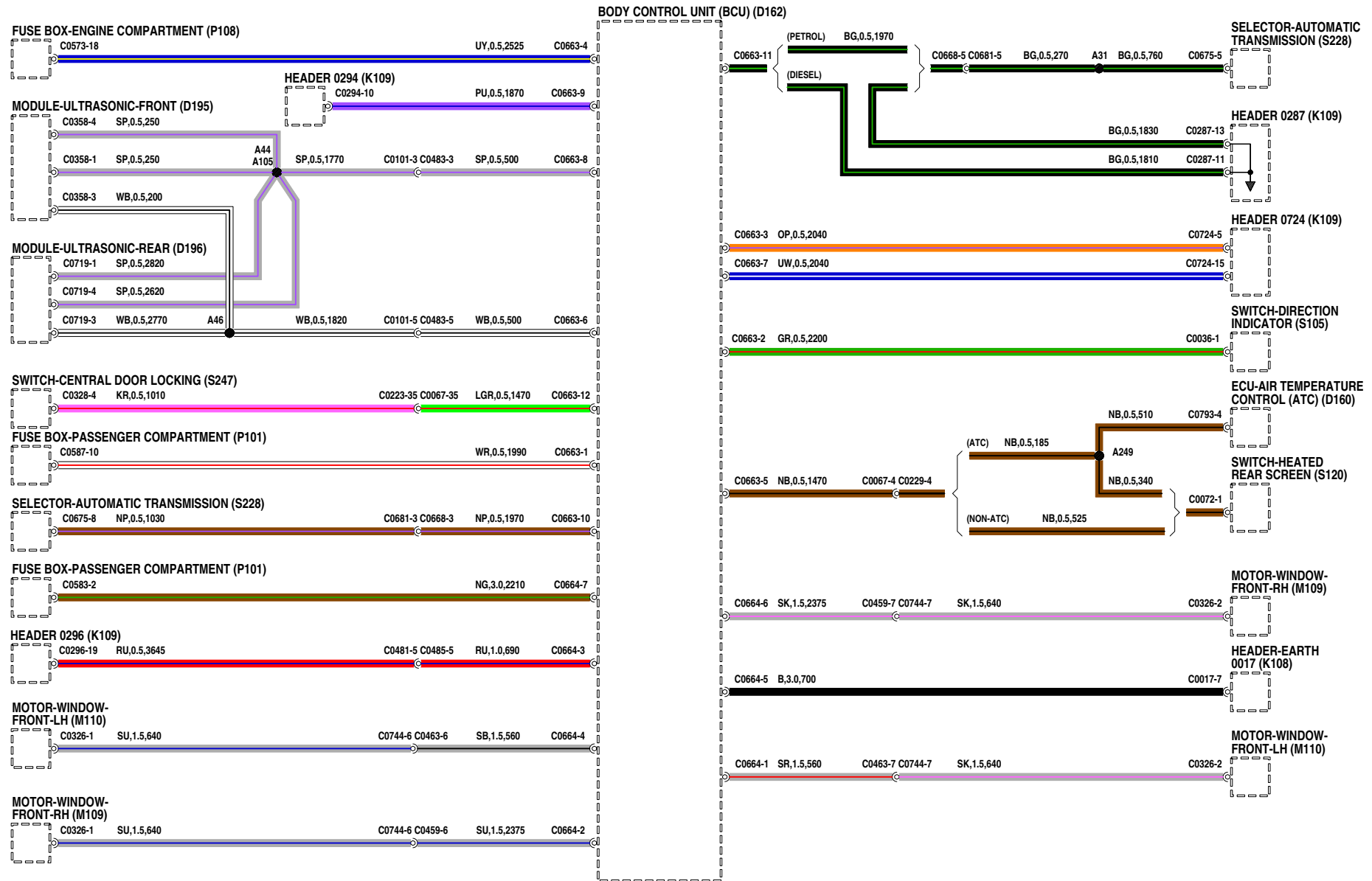
VWR108210-1of3

BODY CONTROL UNIT (BCU)



VWR108210_2x03

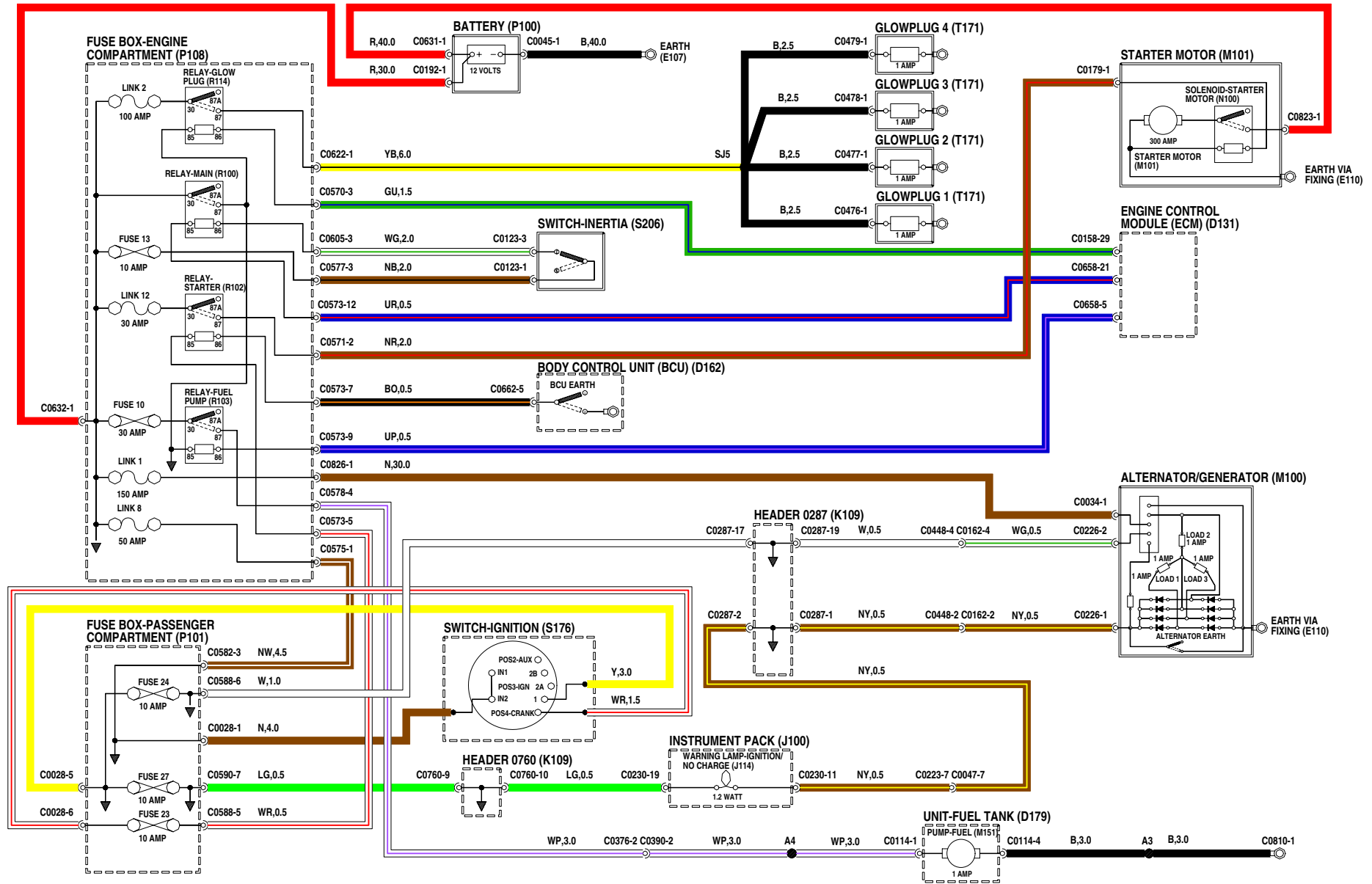
BODY CONTROL UNIT (BCU)



VWR108210-3of3

CHARGING AND STARTING

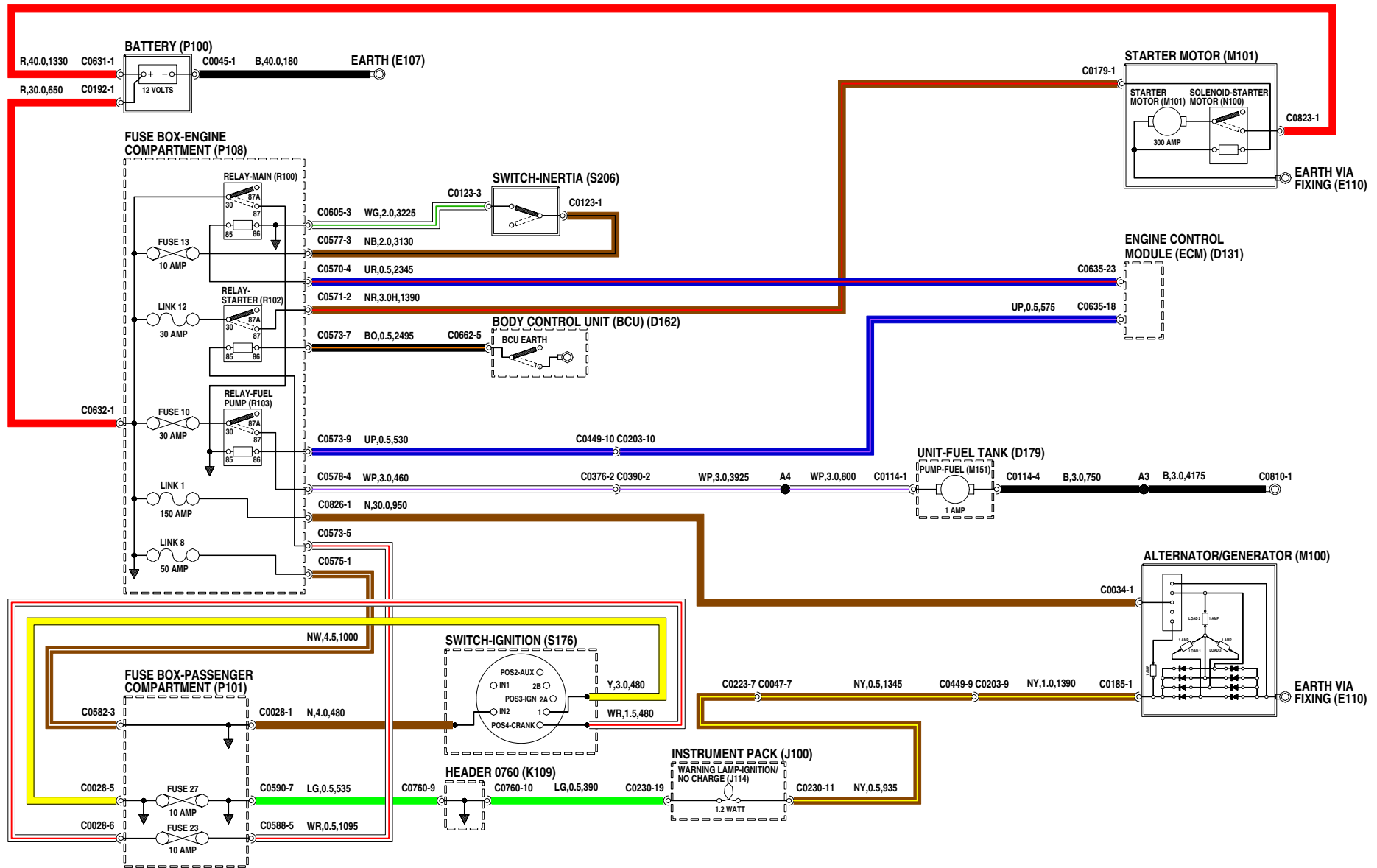
Td5



VWR108570-1of1

CHARGING AND STARTING

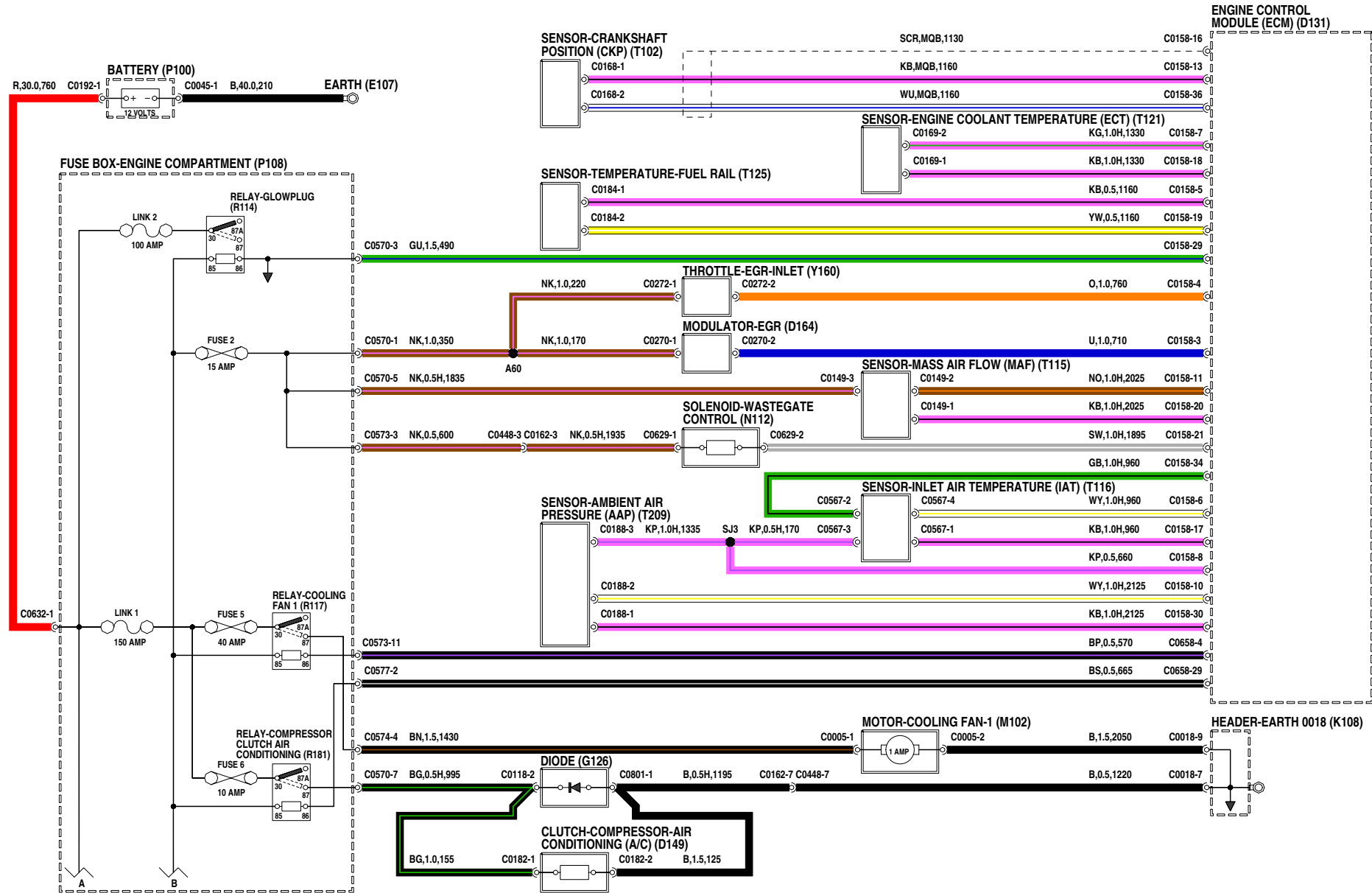
V8



VWR106580-1of1

ENGINE MANAGEMENT

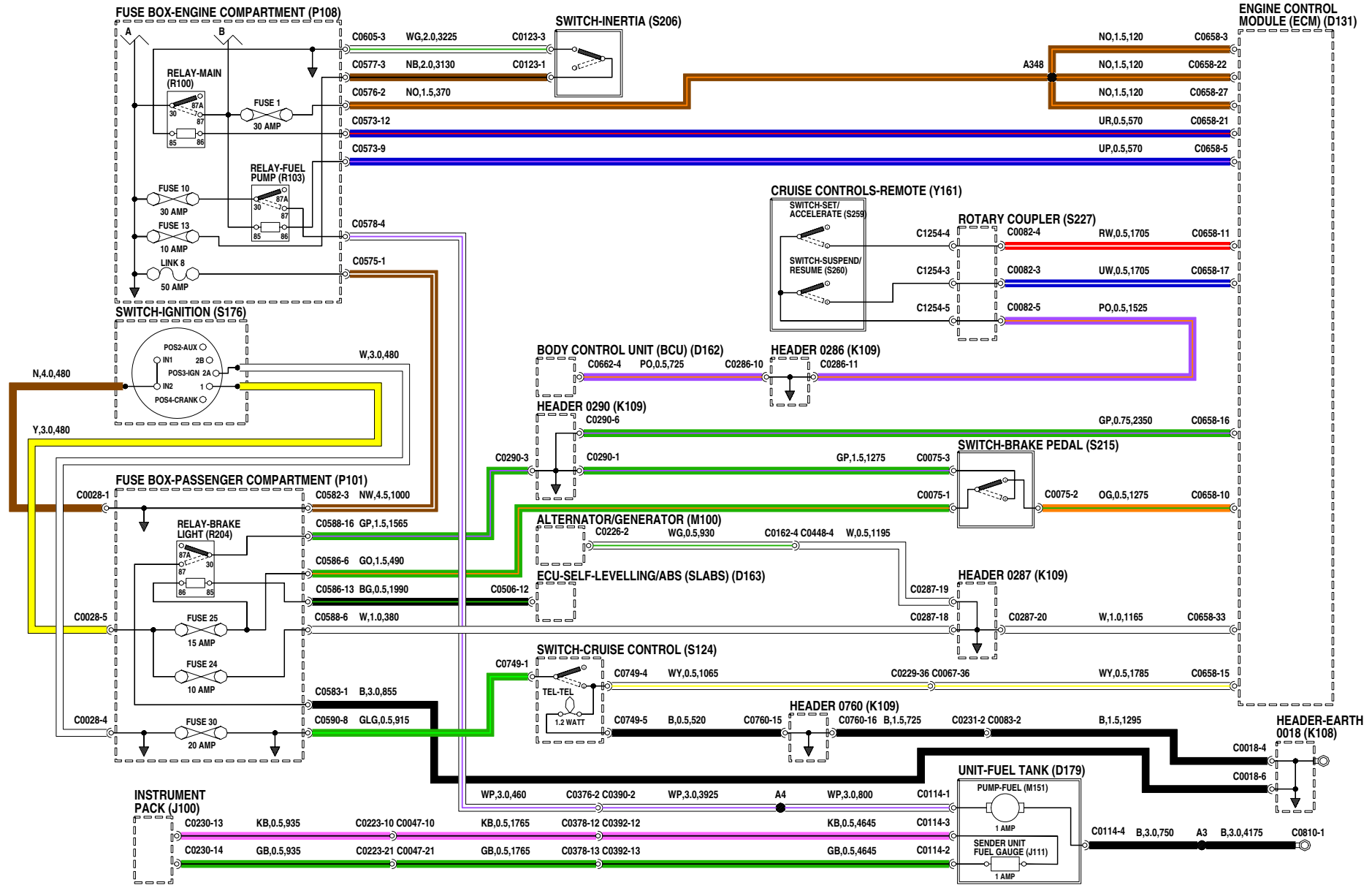
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VWR108270-1a03

ENGINE MANAGEMENT

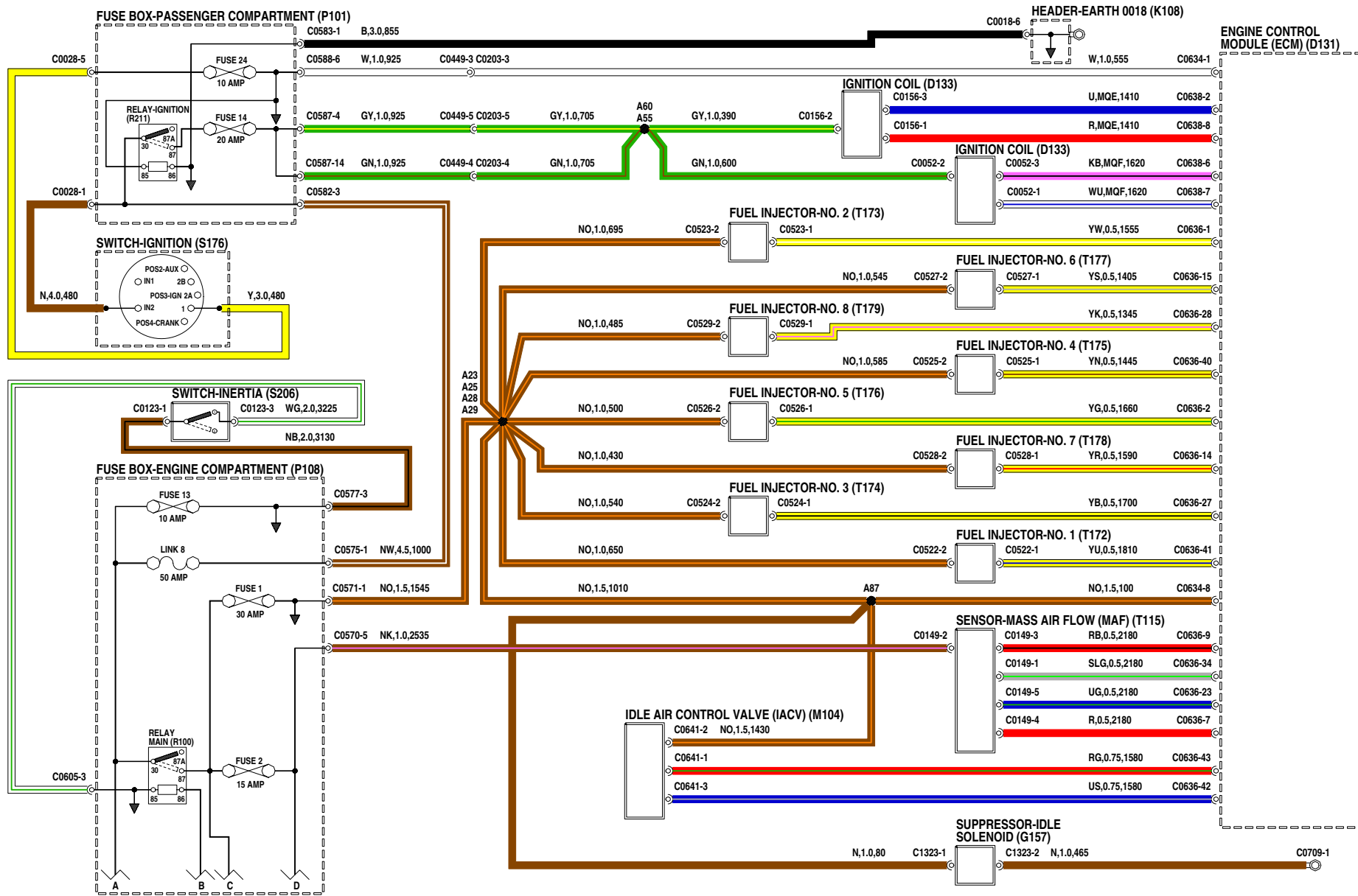
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VWR108270-2of3

ENGINE MANAGEMENT

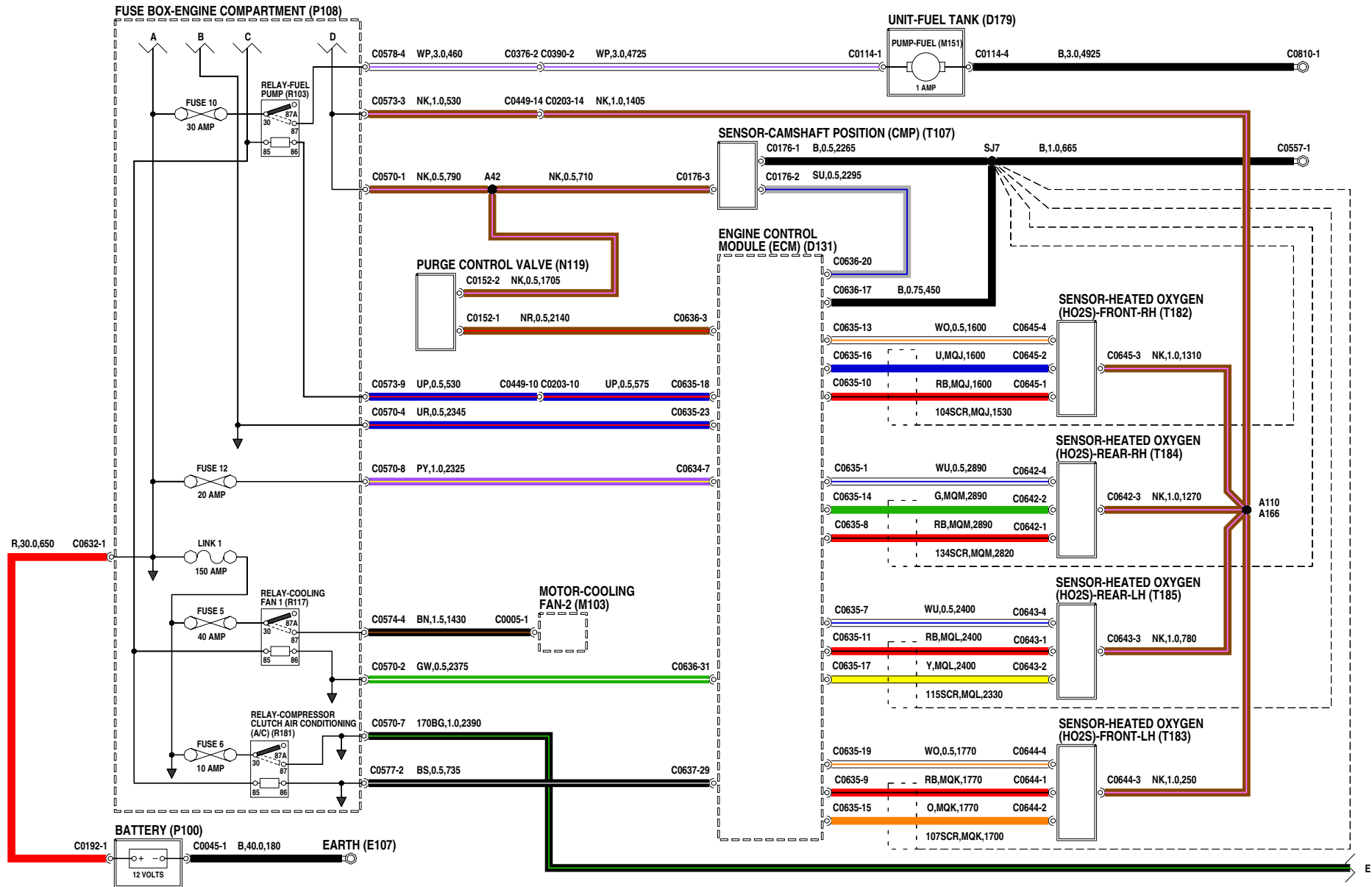
V8



VWR108280-1of3

ENGINE MANAGEMENT

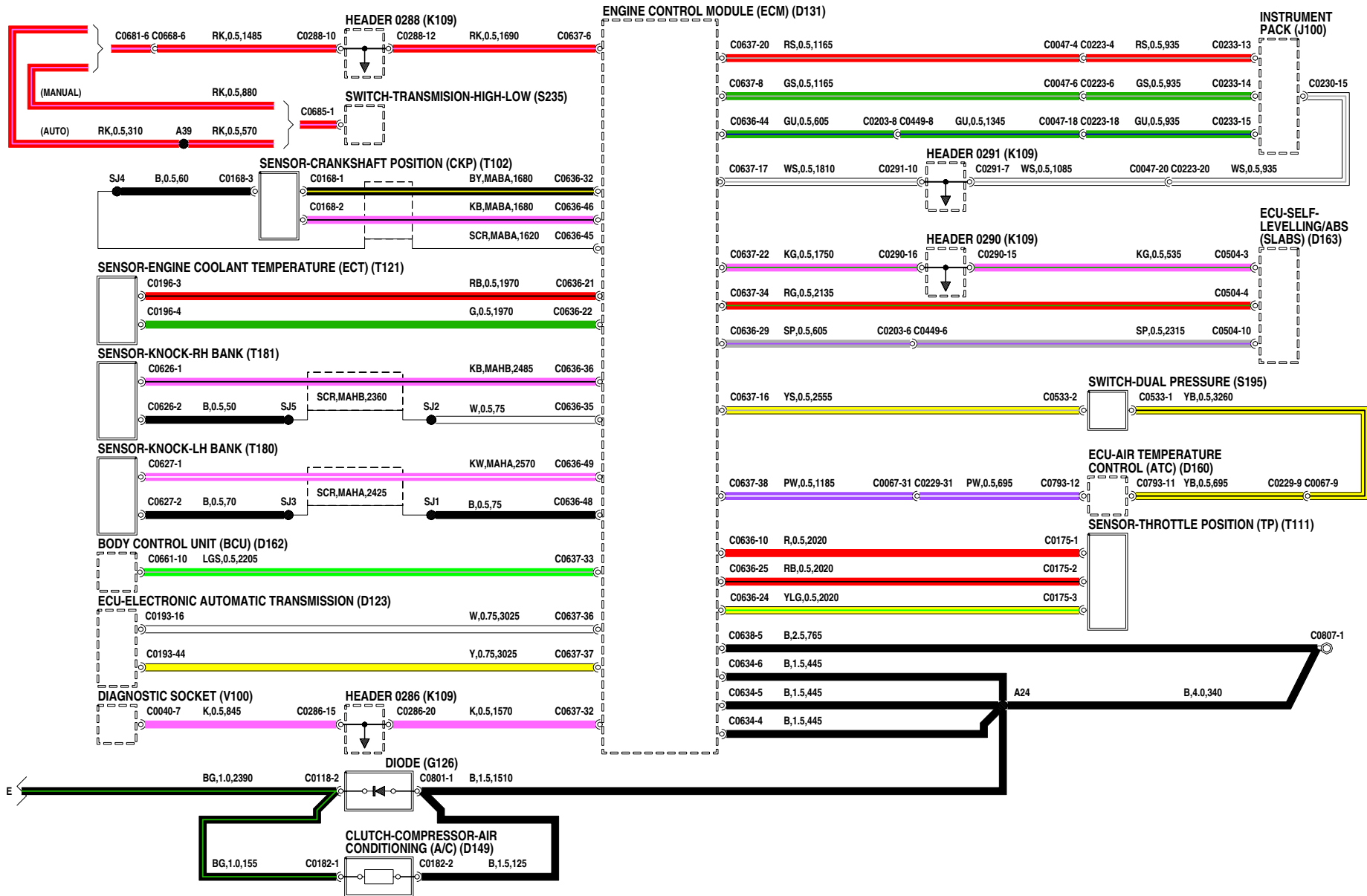
V8



VWR108280-2of3

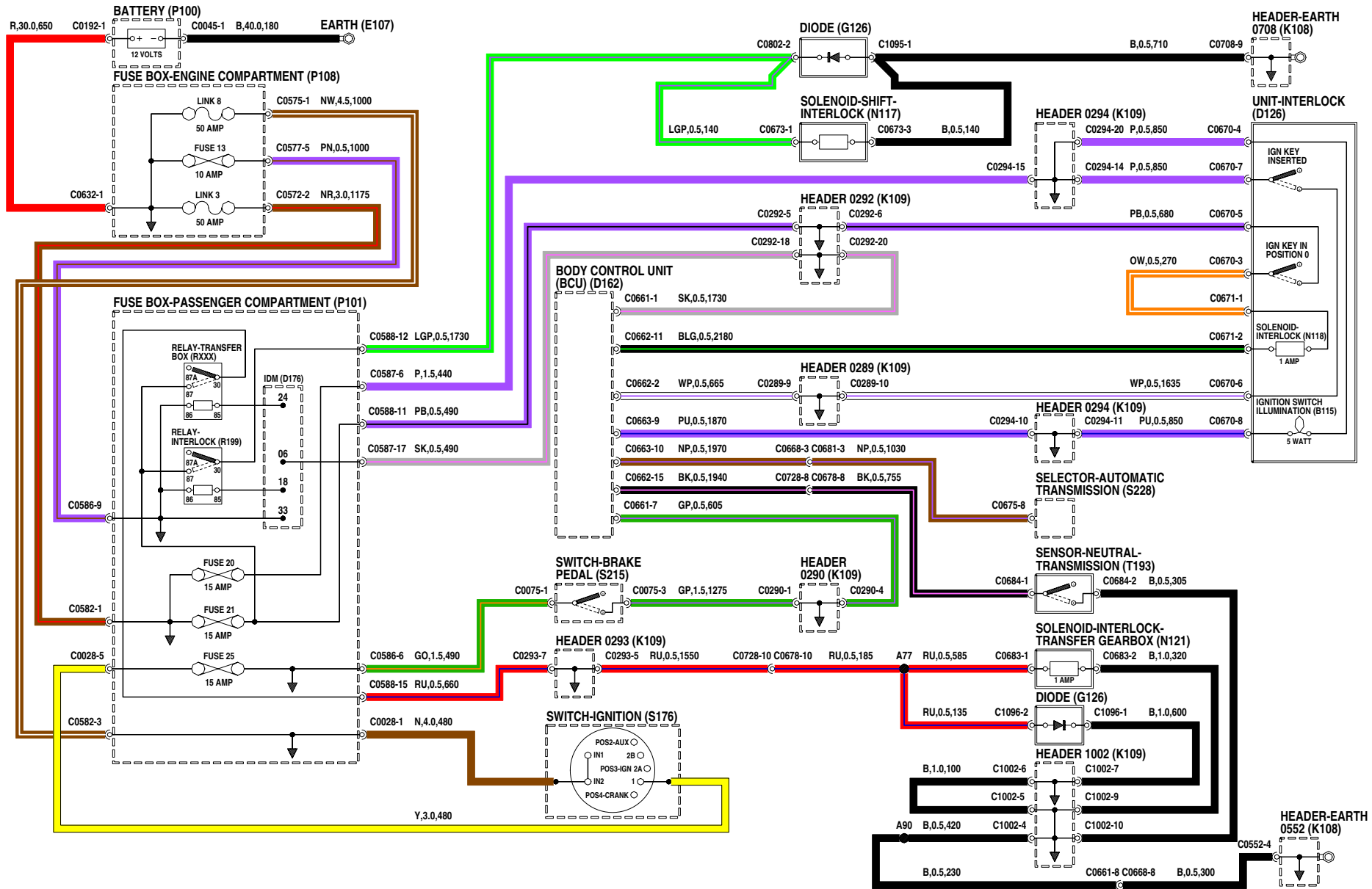
ENGINE MANAGEMENT

V8



VWR108280-3a03

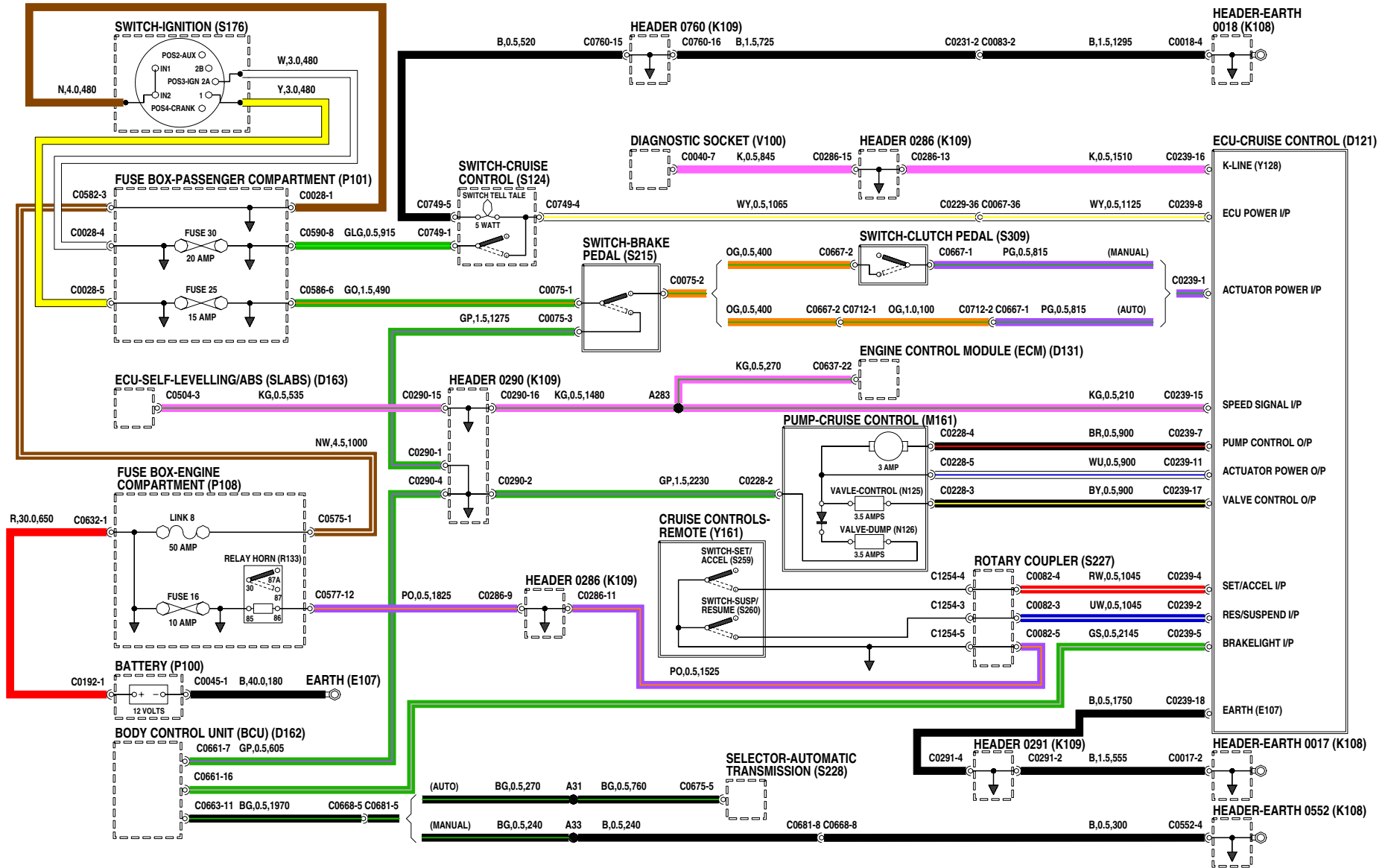
IGNITION/SHIFT INTERLOCK



VWR108450-101

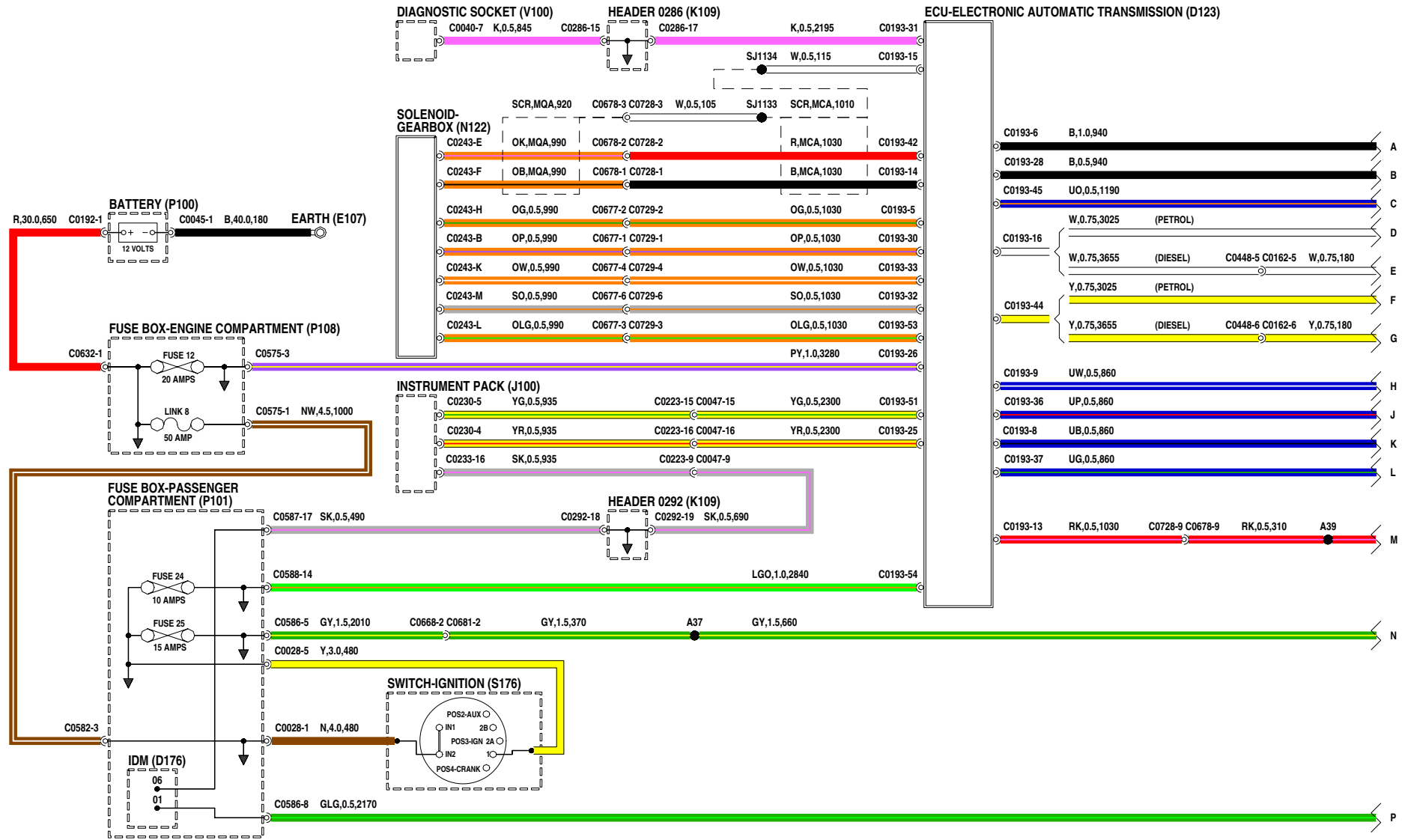
CRUISE CONTROL

PETROL ONLY

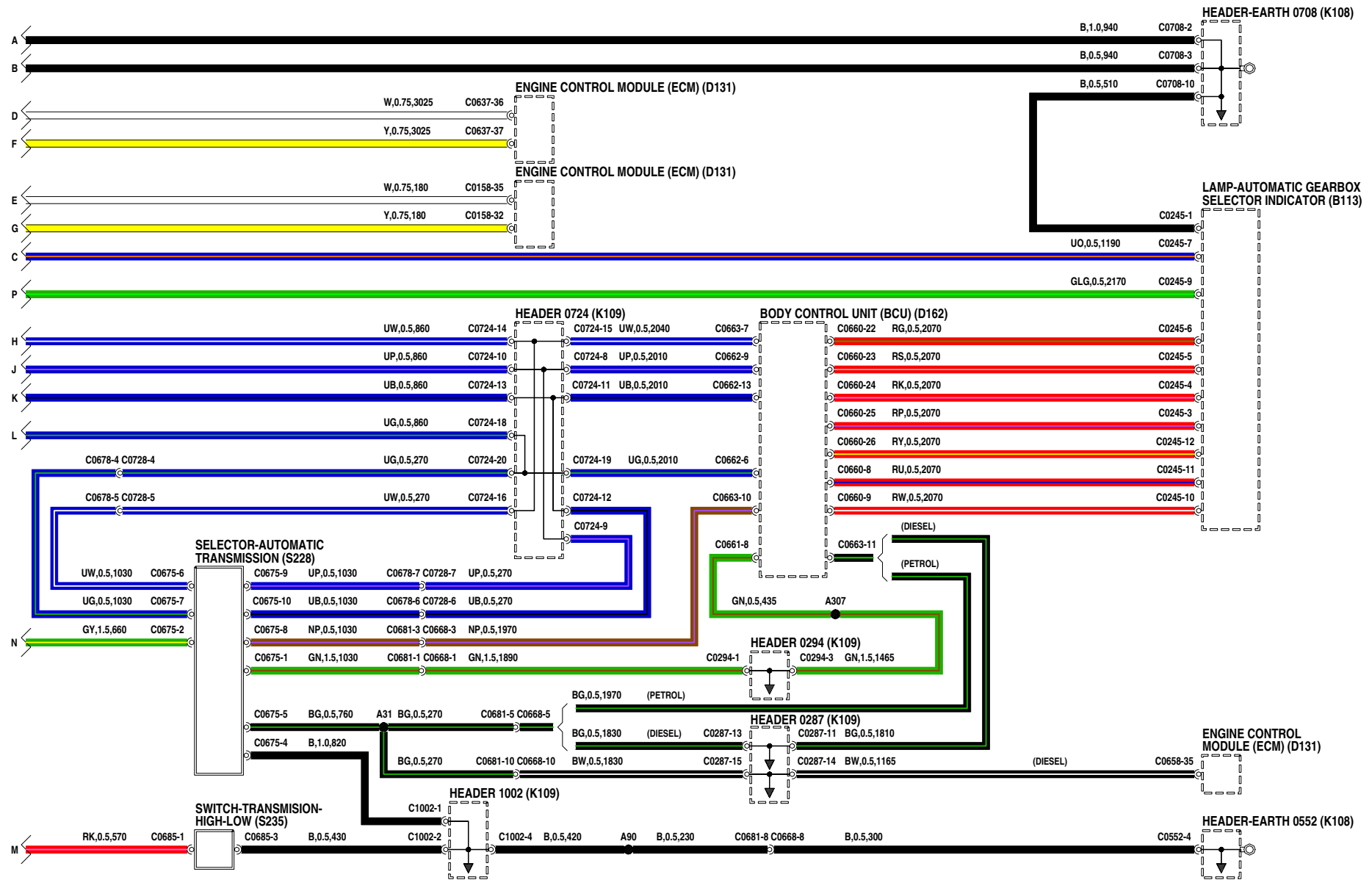


VWR108240-1011

ELECTRONIC AUTOMATIC TRANSMISSION (EAT)

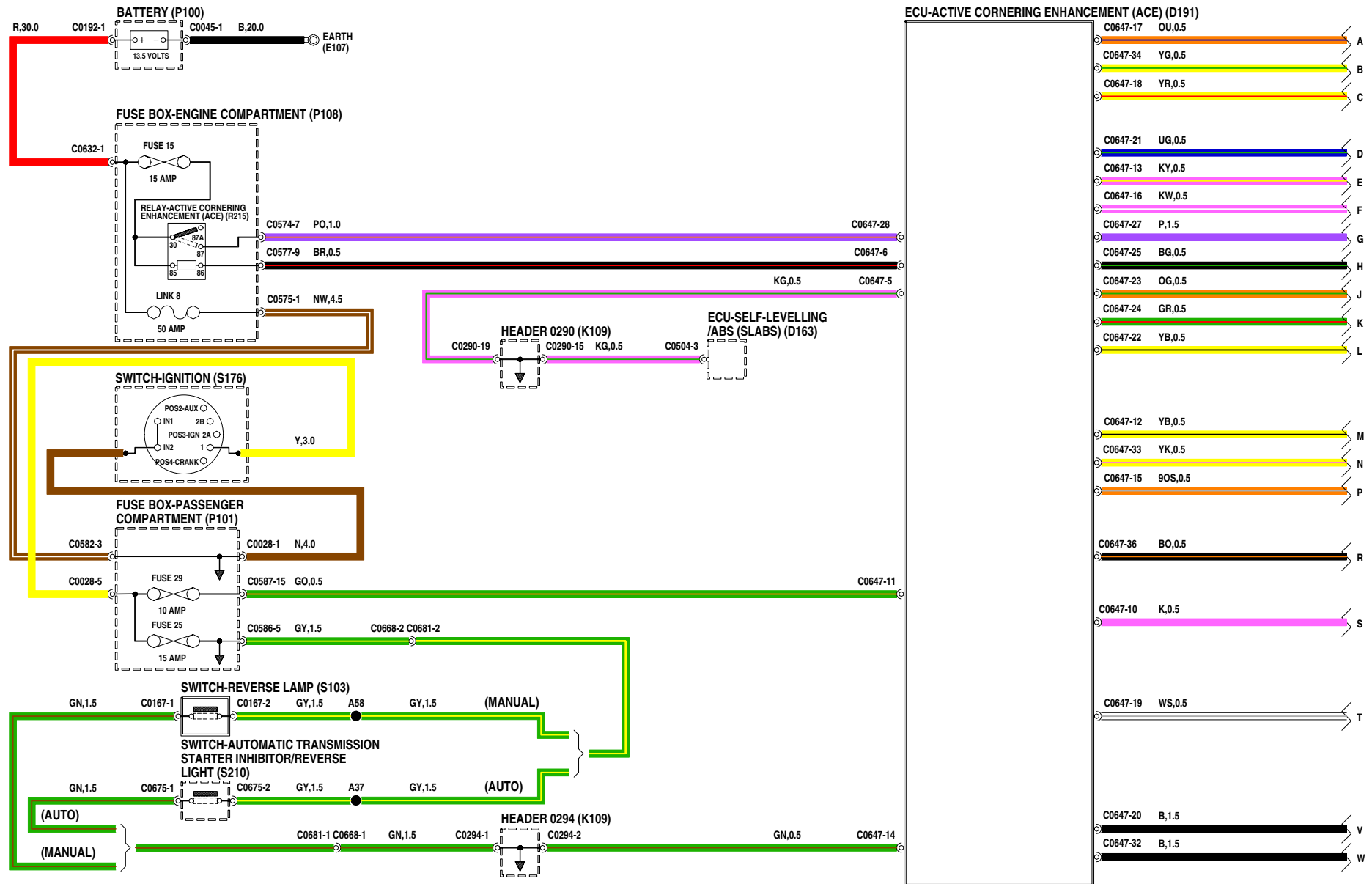


ELECTRONIC AUTOMATIC TRANSMISSION (EAT)



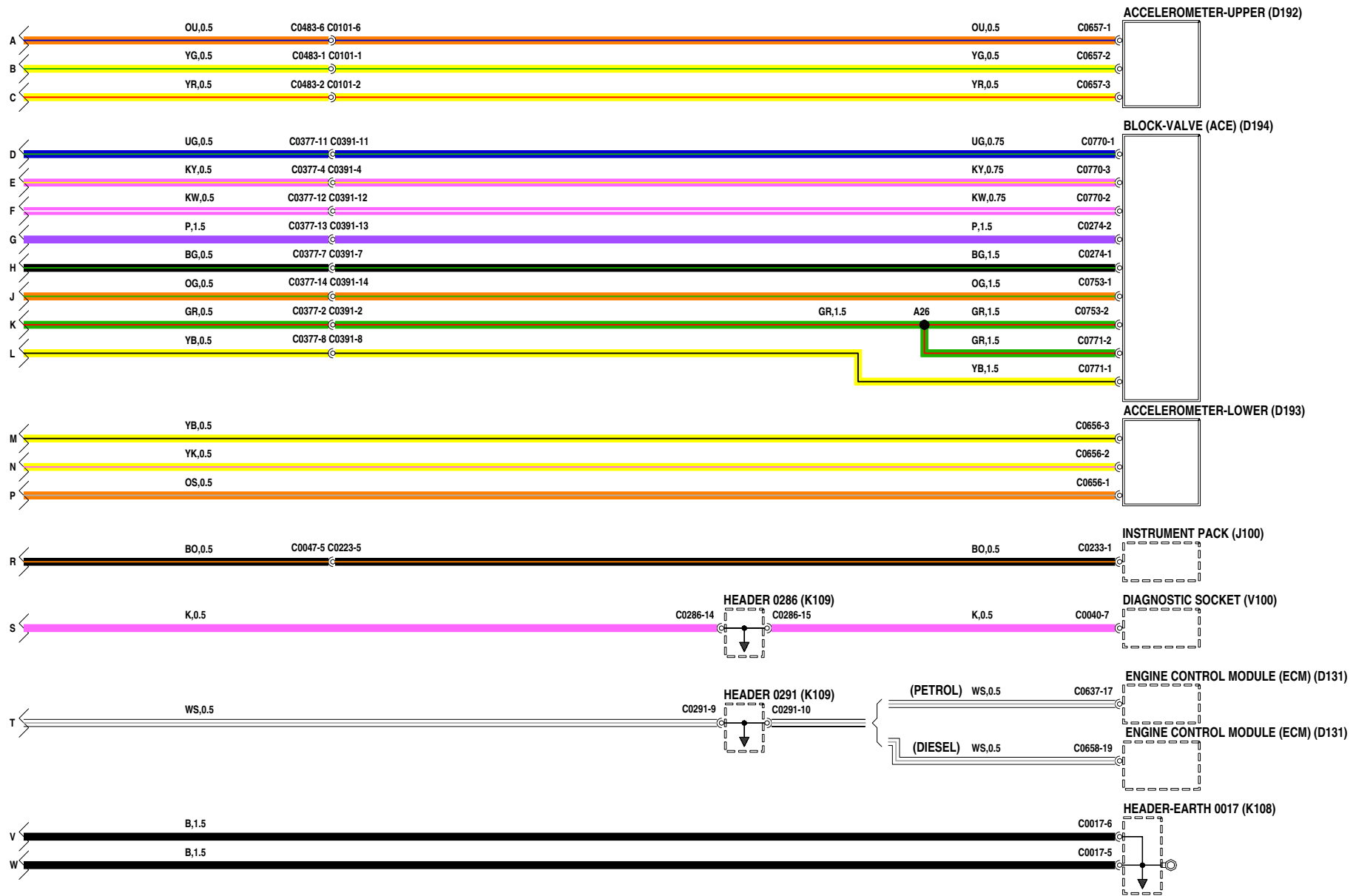
VWR108600-2of2

ACTIVE CORNERING ENHANCEMENT (ACE)



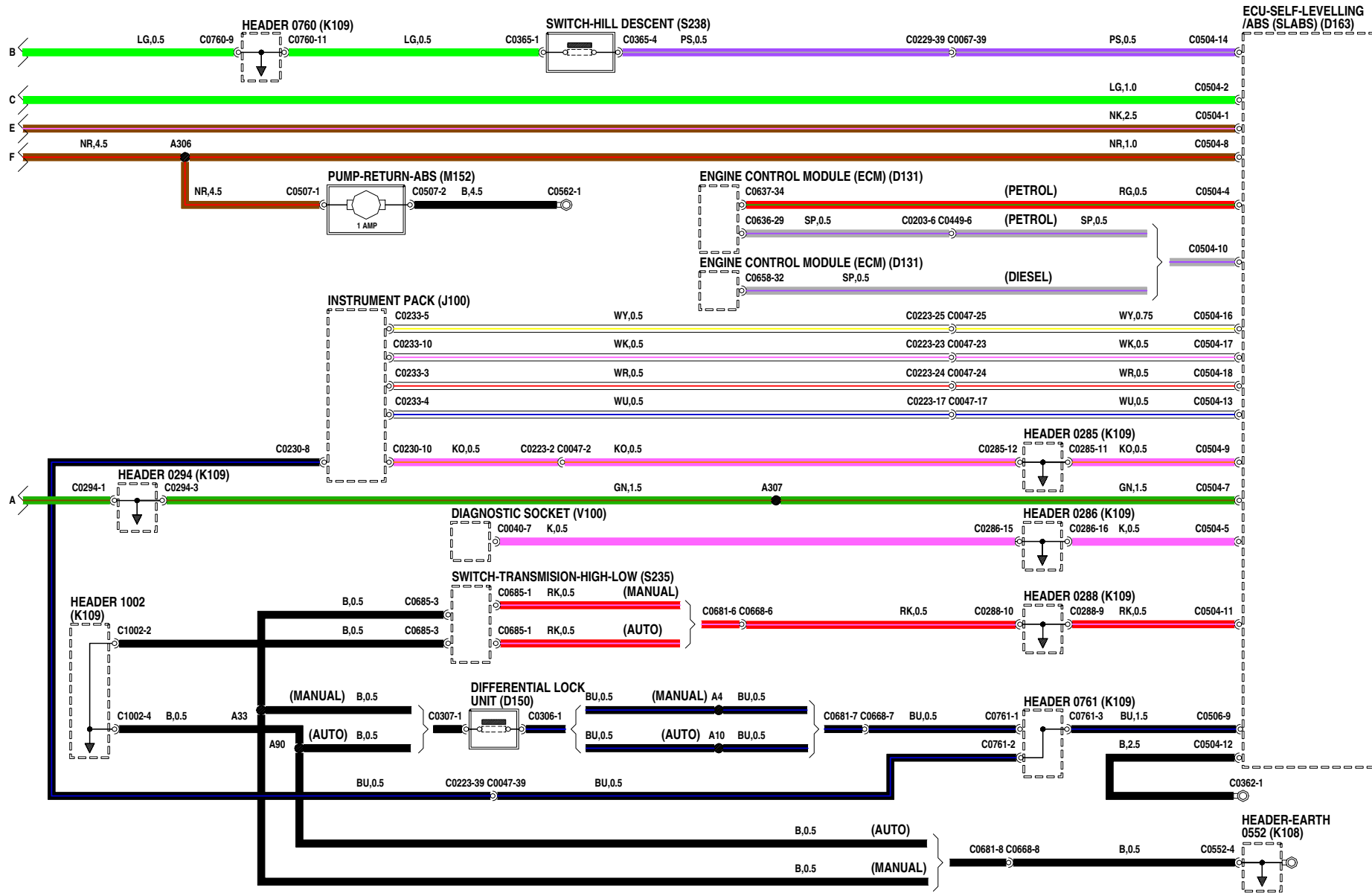
VWR108150-10t2

ACTIVE CORNERING ENHANCEMENT (ACE)



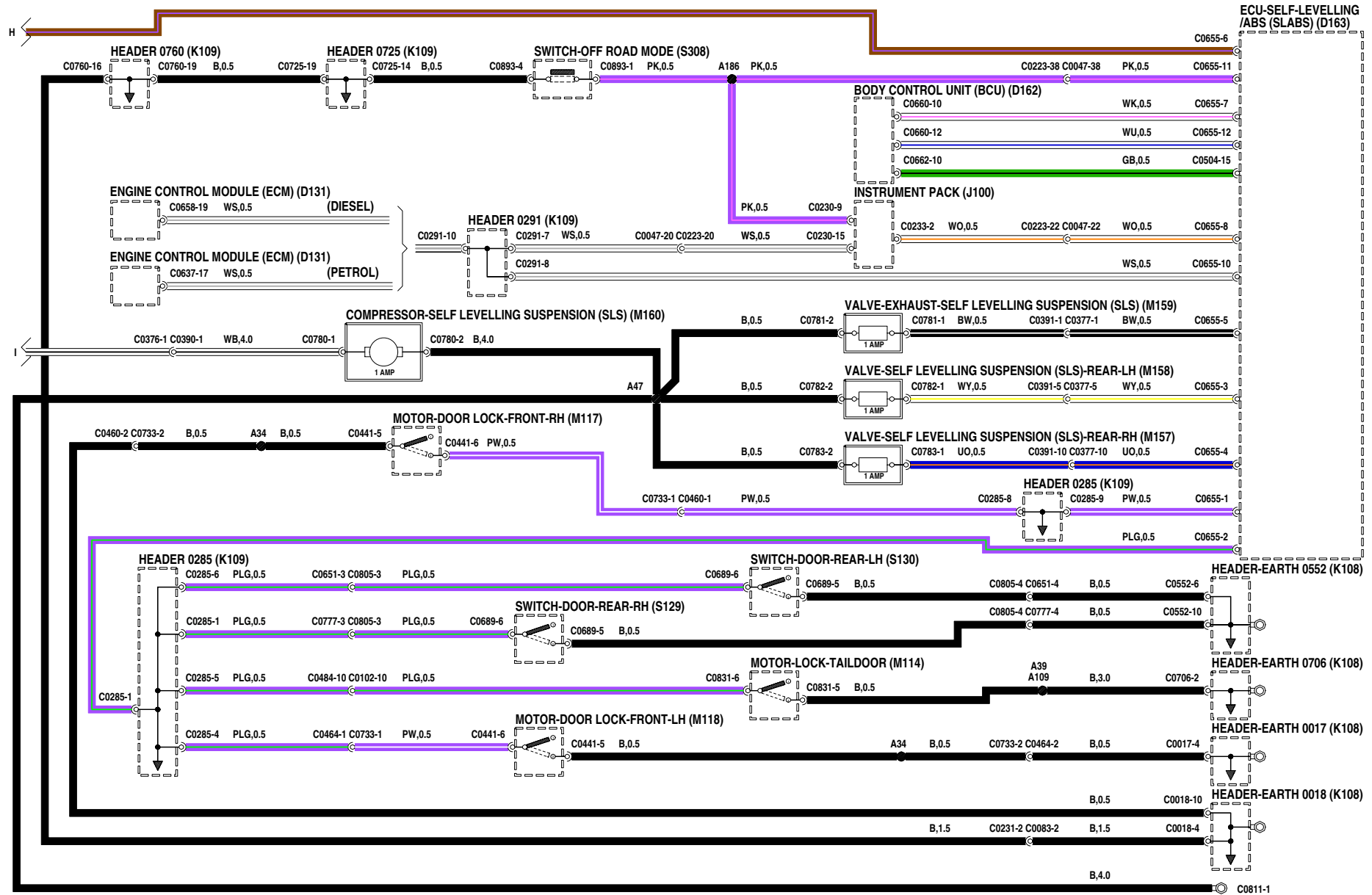
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SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



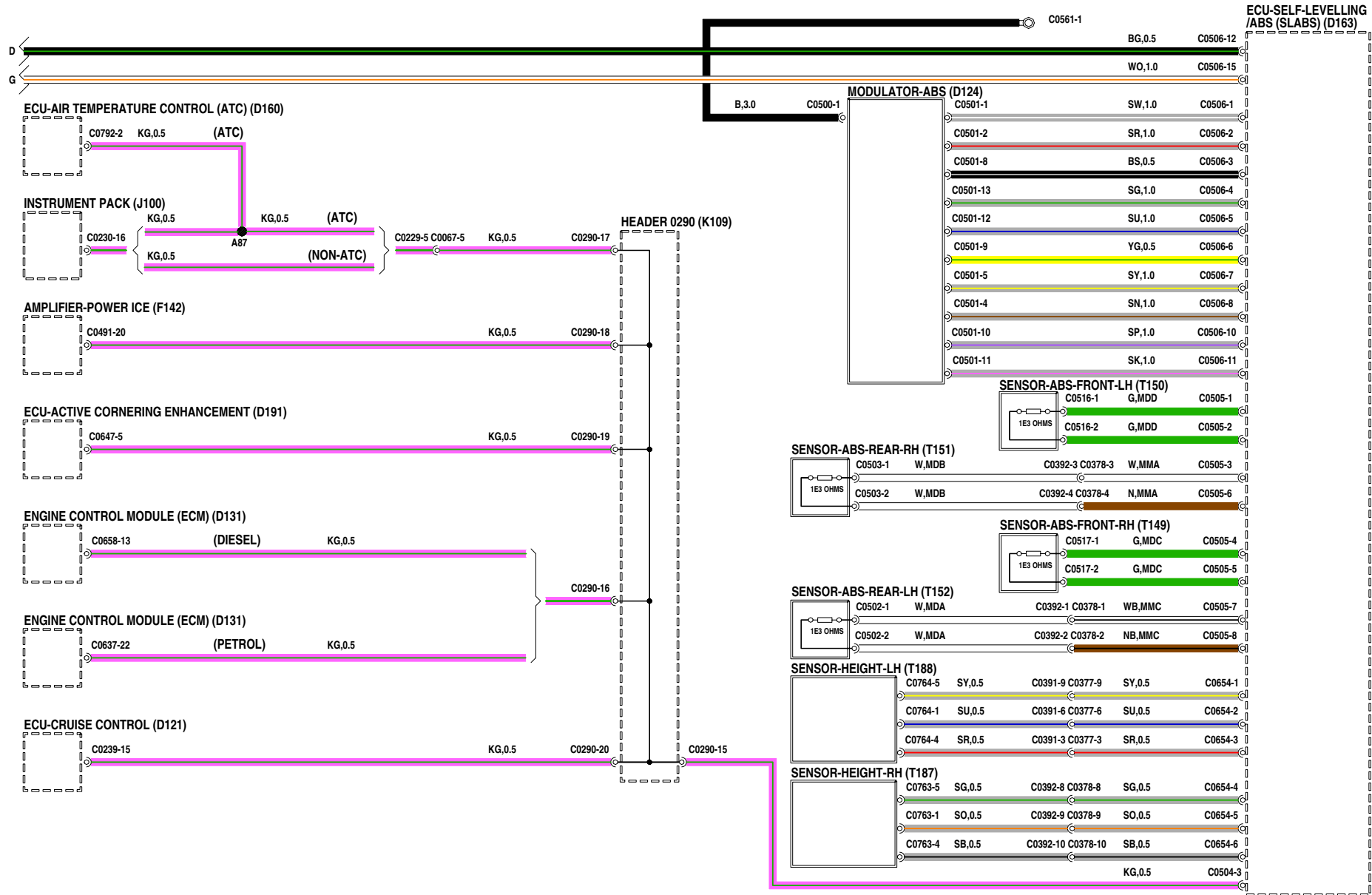
VWR108540-2x04

SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



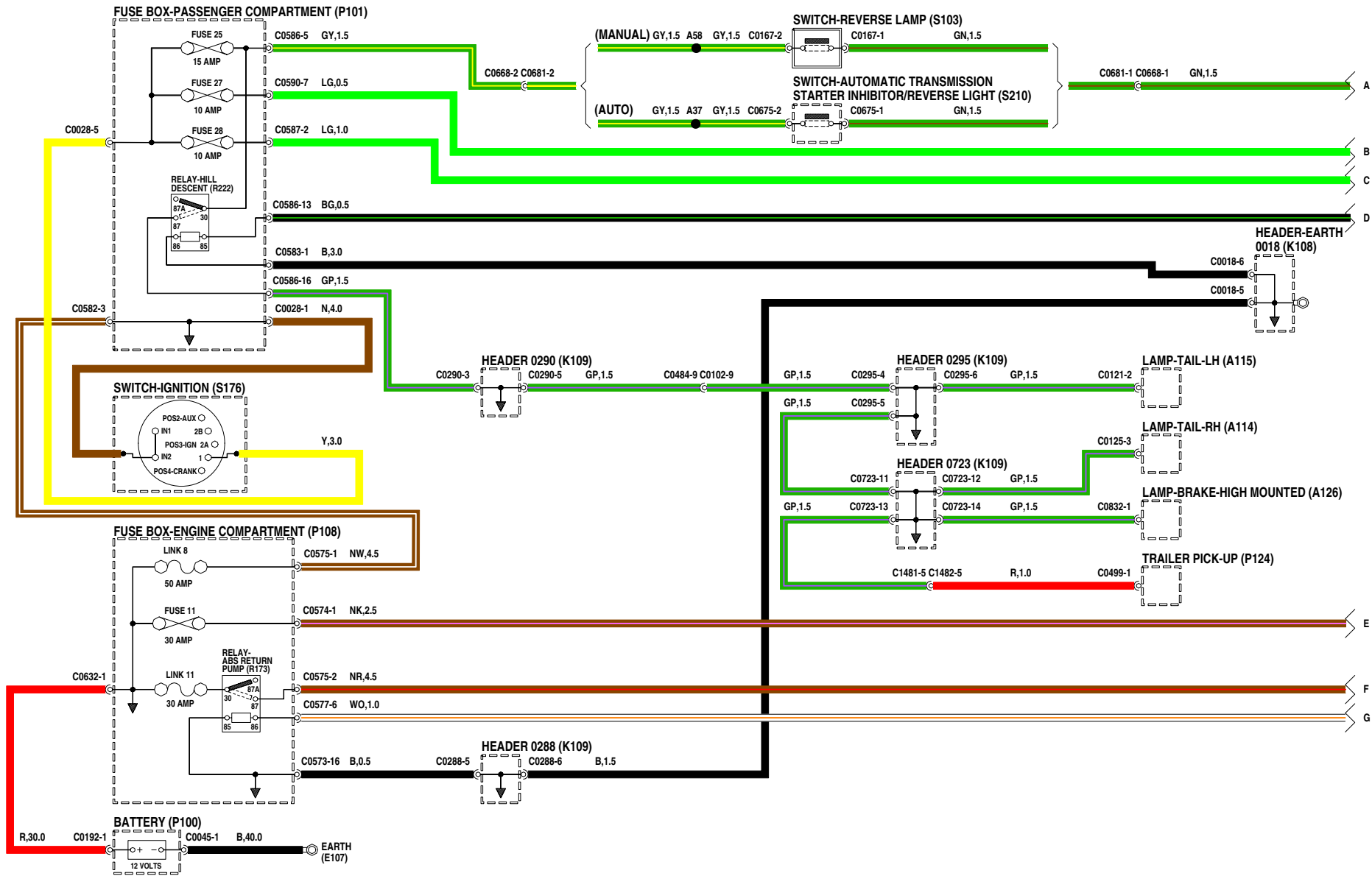
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SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



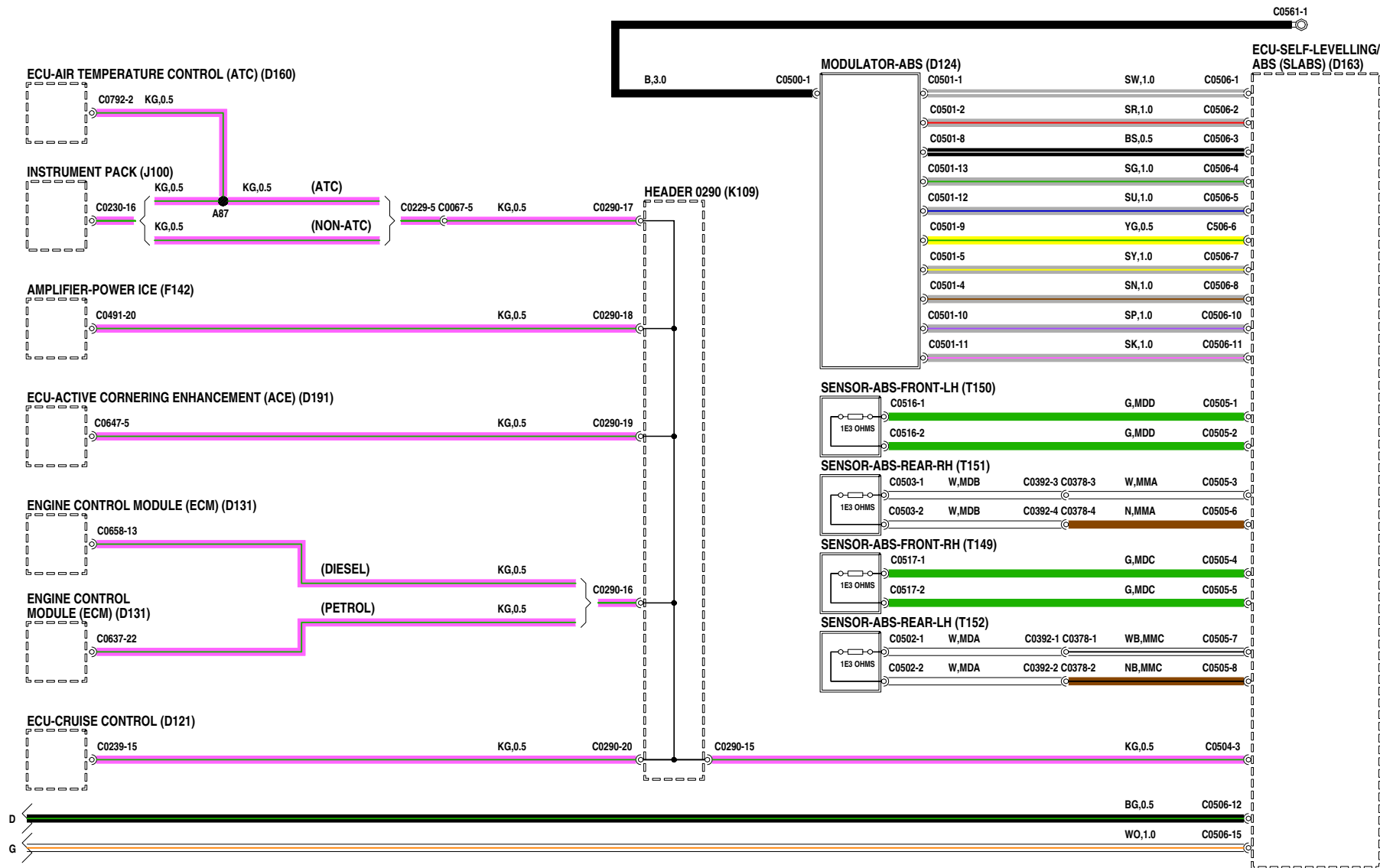
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ANTI-LOCK BRAKING SYSTEM (ABS)

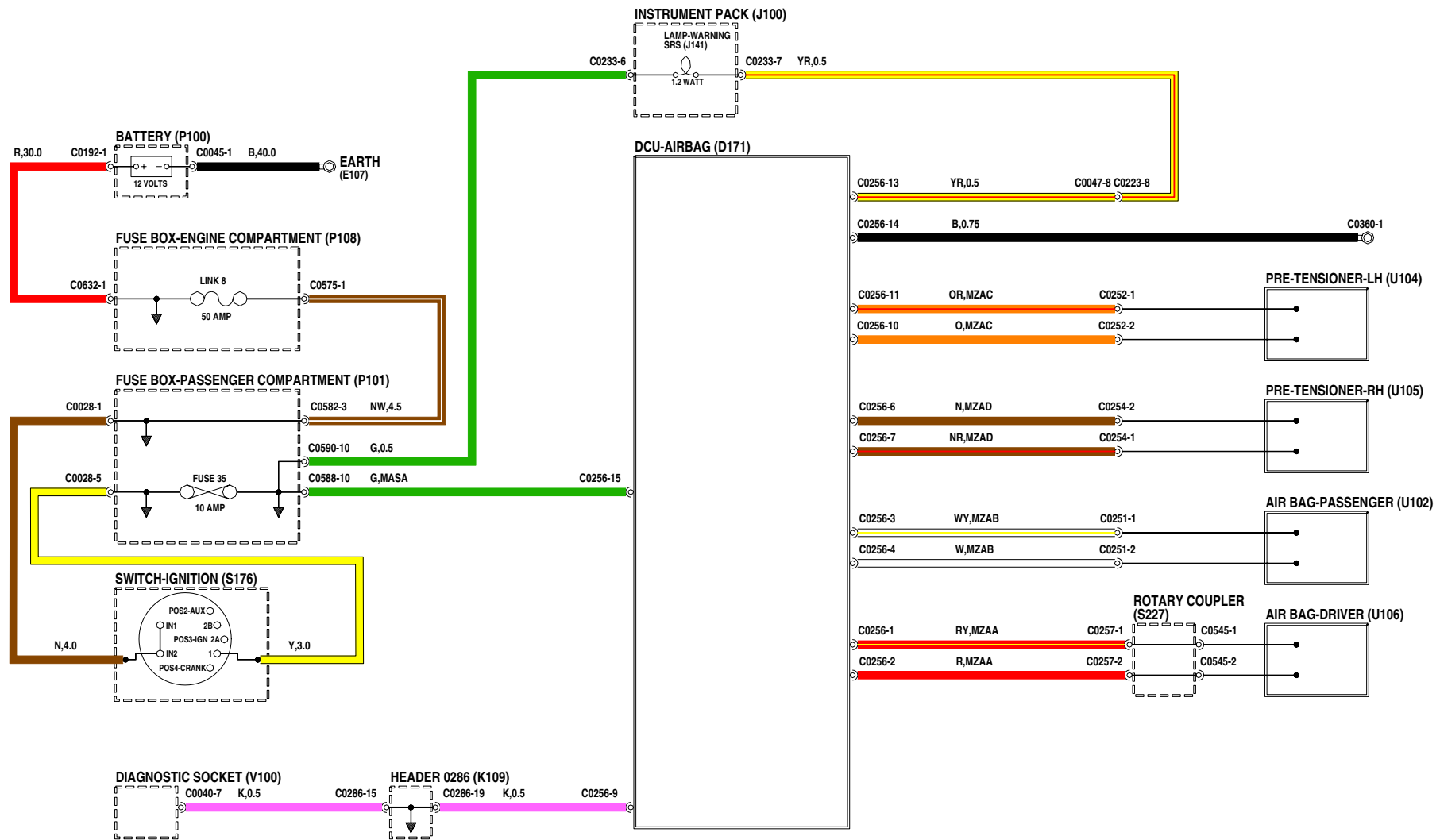


VWR108100-1a03

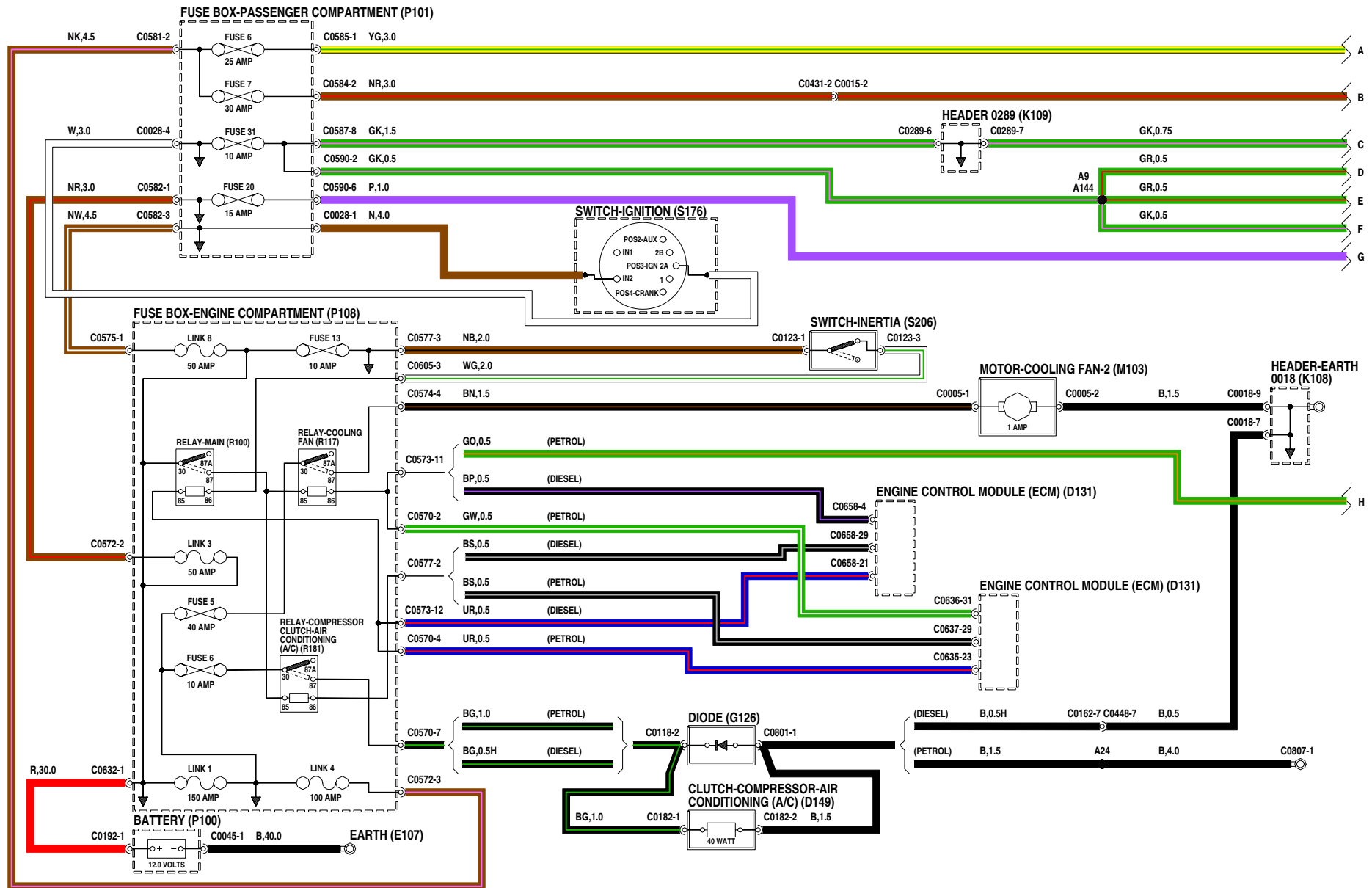
ANTI-LOCK BRAKING SYSTEM (ABS)



VWR108100-3a/3

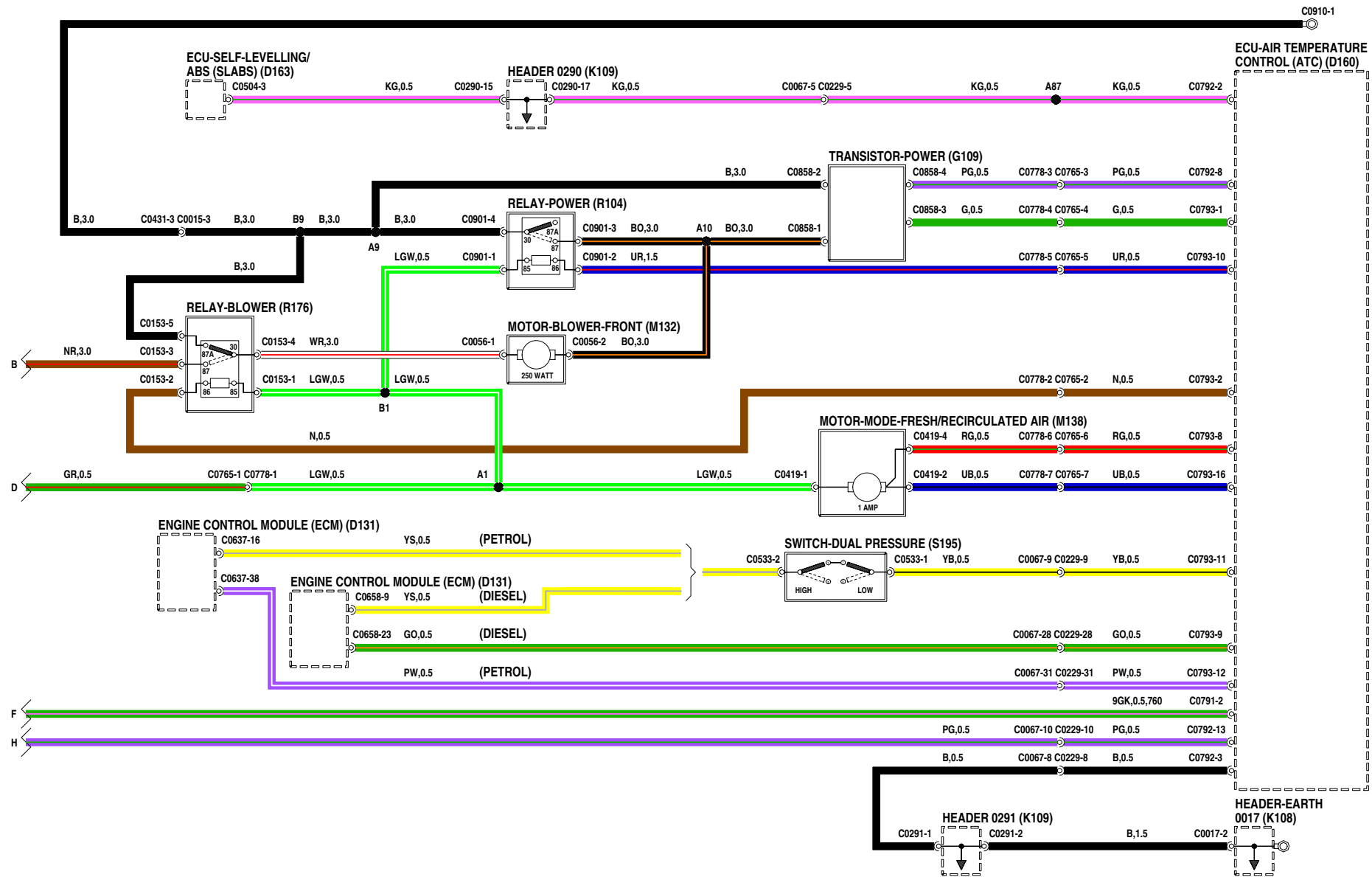


AIR CONDITIONING (A/C)



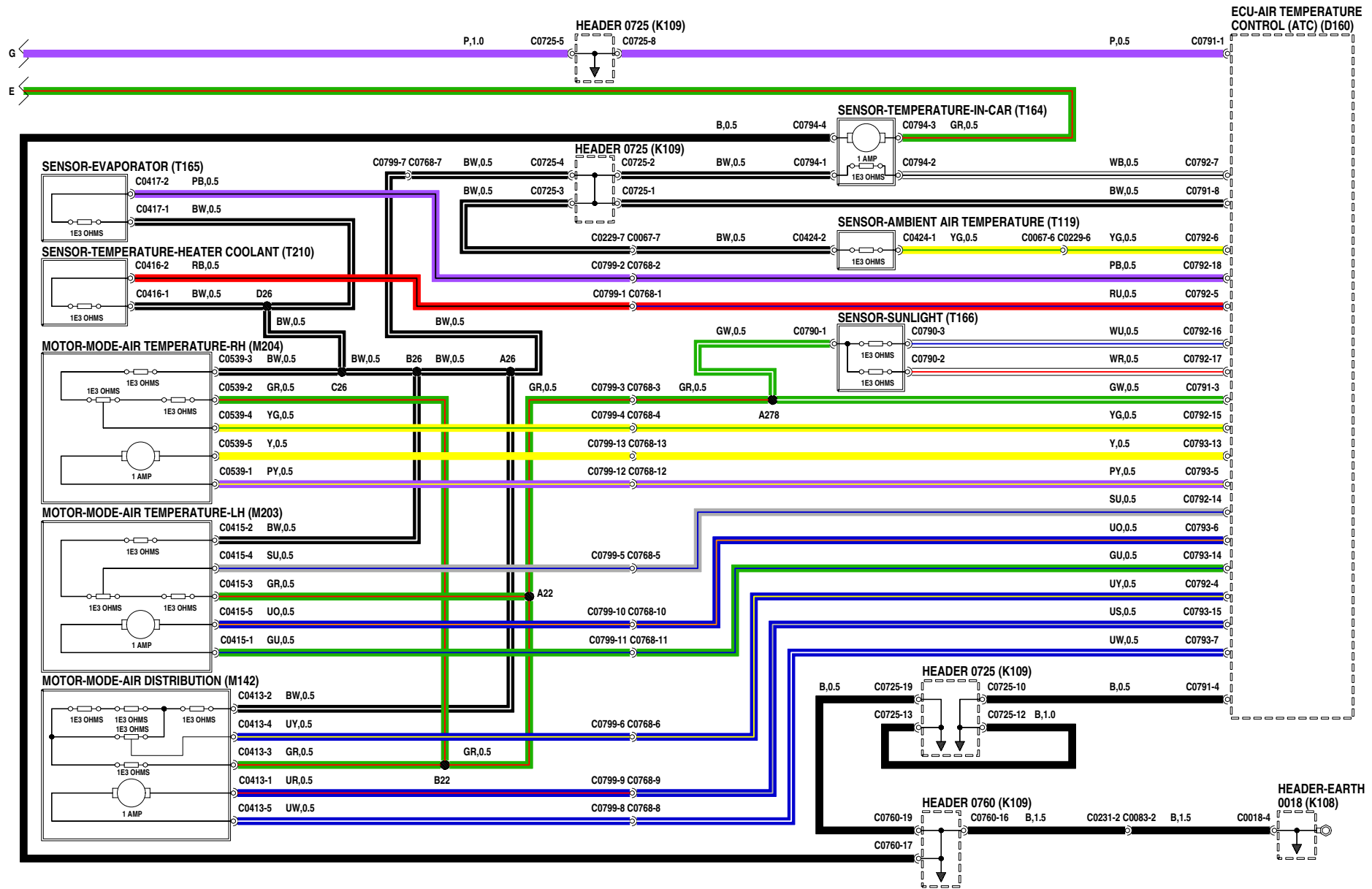
VWR108130-1a4

AIR CONDITIONING (A/C)



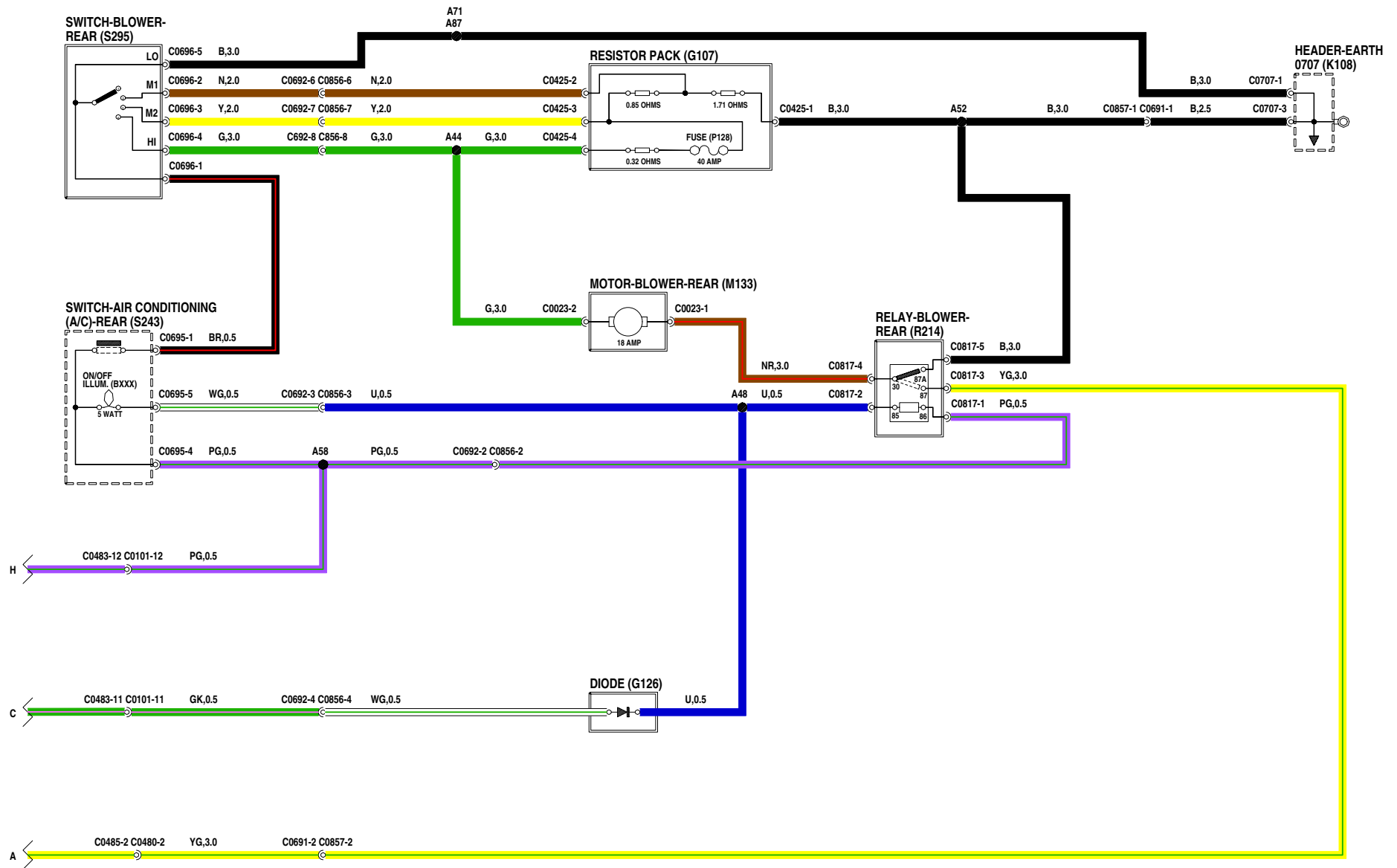
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AIR CONDITIONING (A/C)



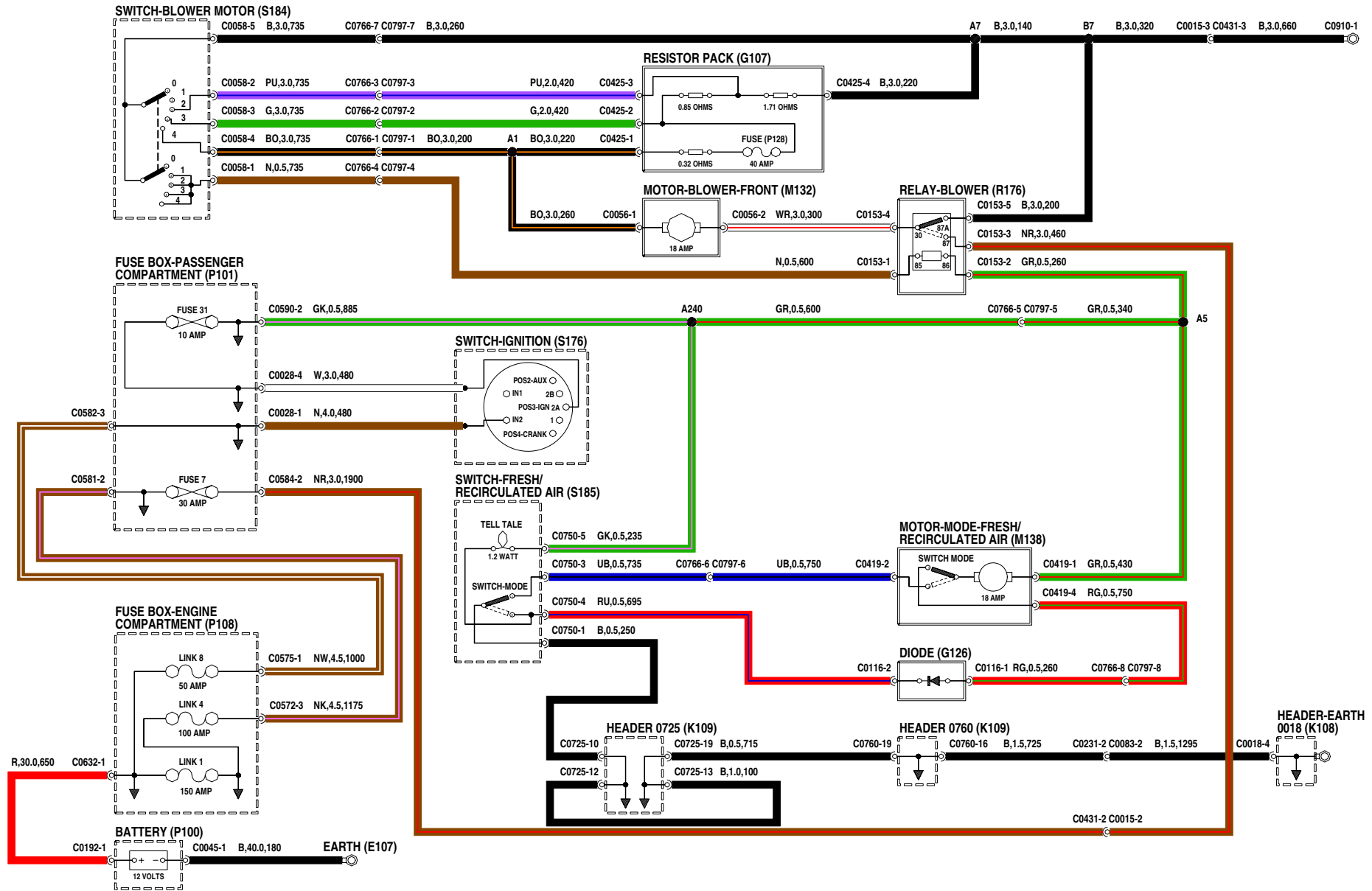
VWR108130-3of4

AIR CONDITIONING (A/C)



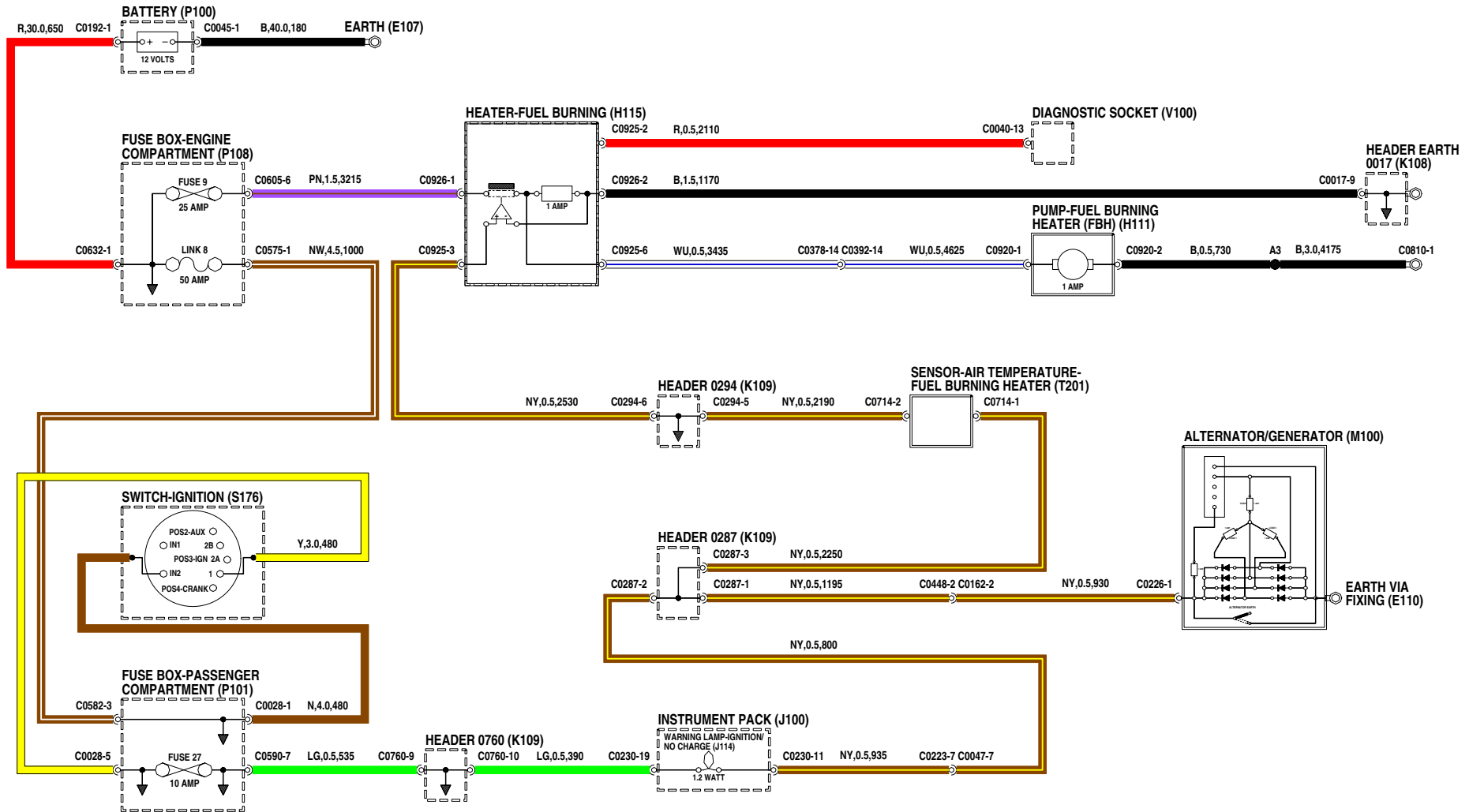
VWR108130-4x4

HEATER BLOWER

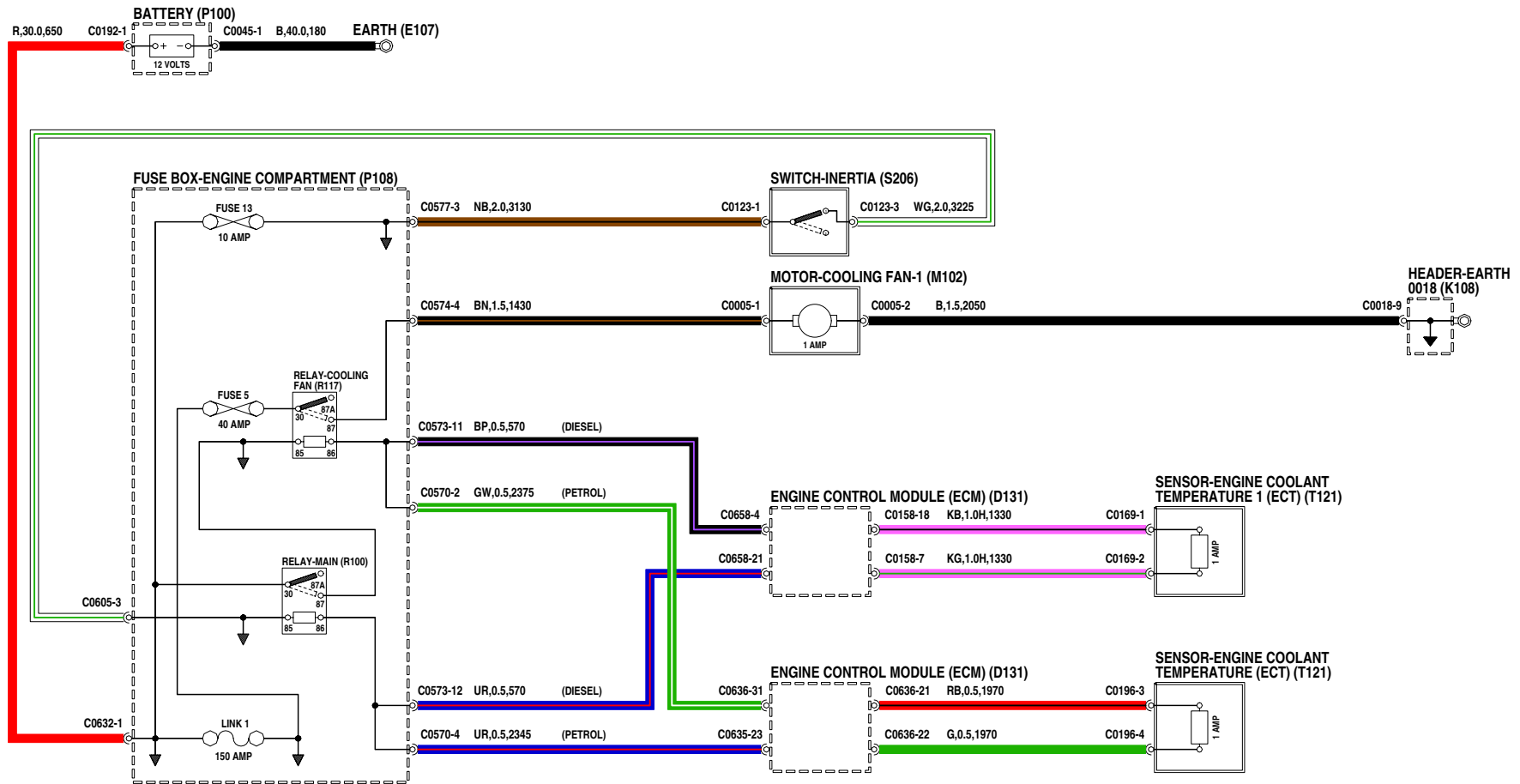


VWR108400-101

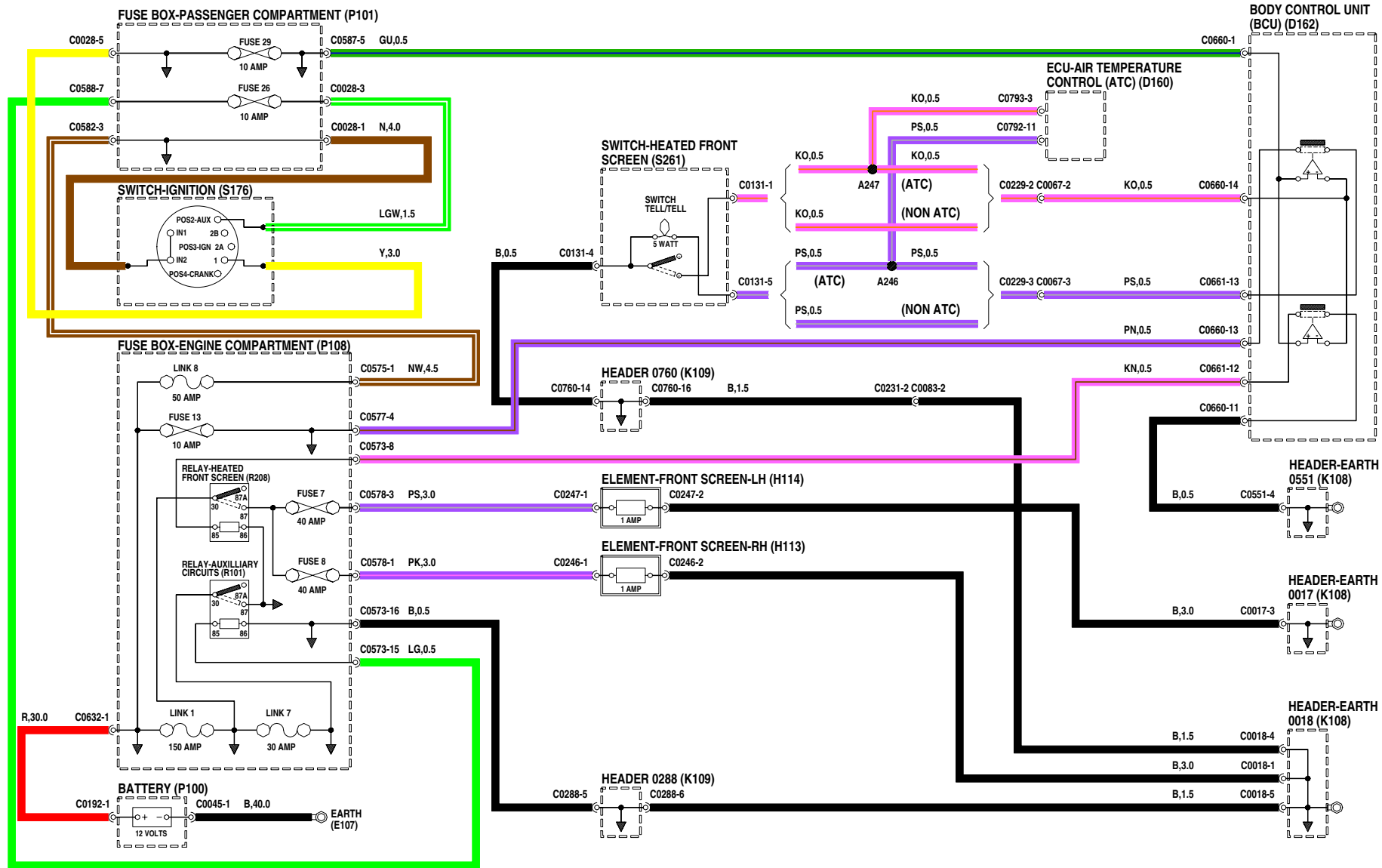
FUEL BURNING HEATER (FBH)



COOLING FANS

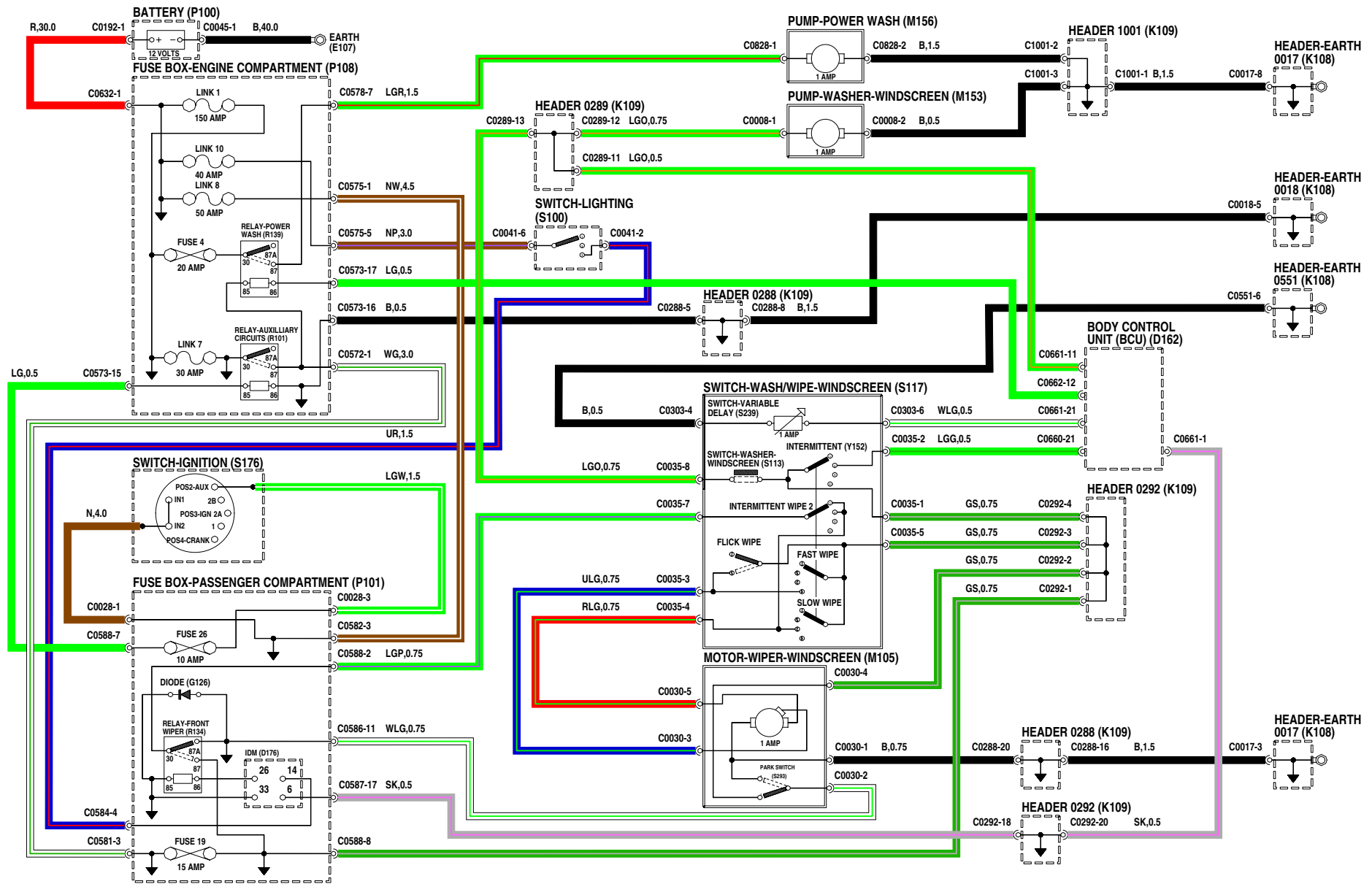


HEATED FRONT SCREEN



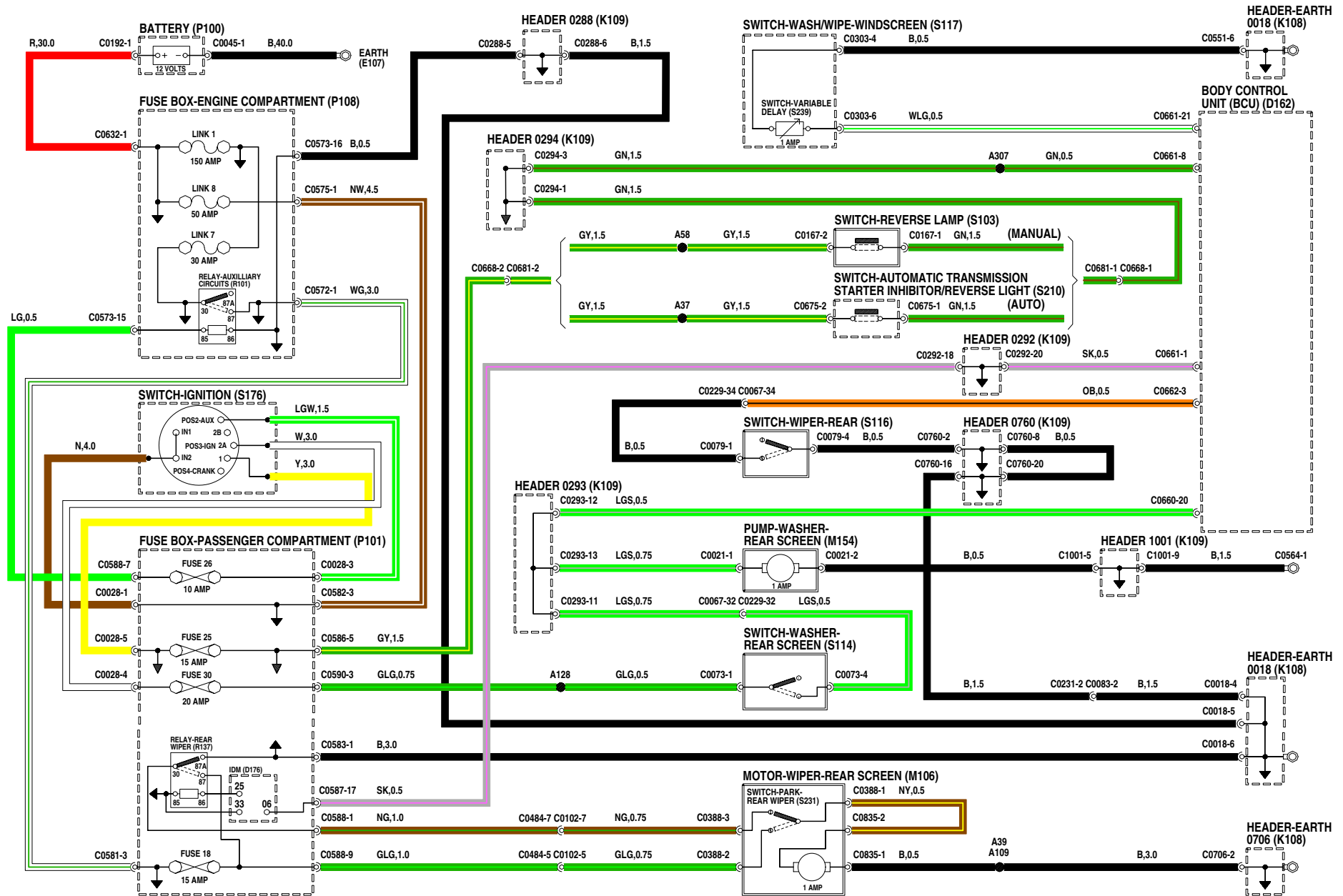
VWR108380-1of1

WIPERS AND WASHERS FRONT



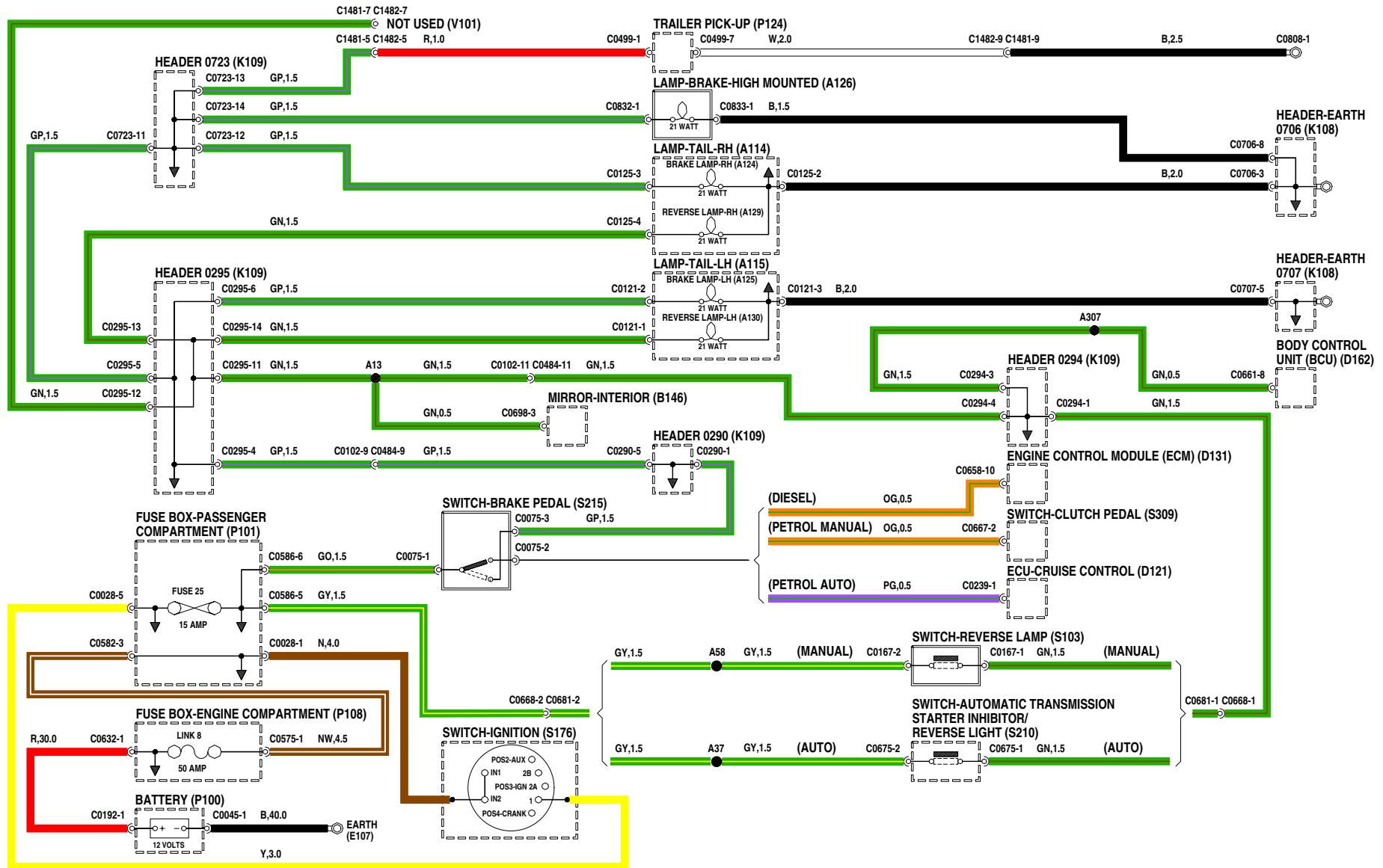
VWR108650-101f

WIPERS AND WASHERS REAR



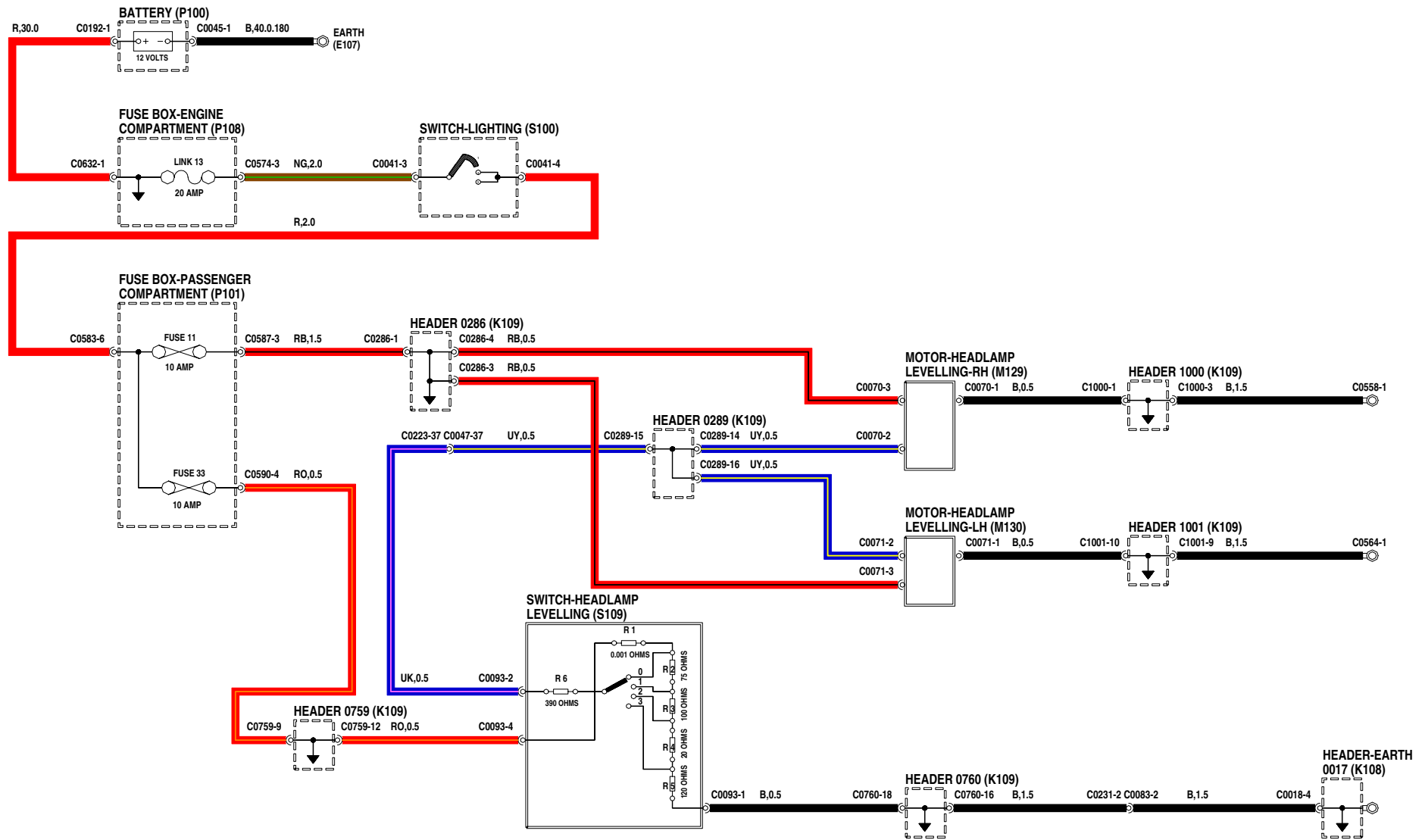
VWR108660-10t1

EXTERIOR LAMPS BRAKE AND REVERSE LAMPS



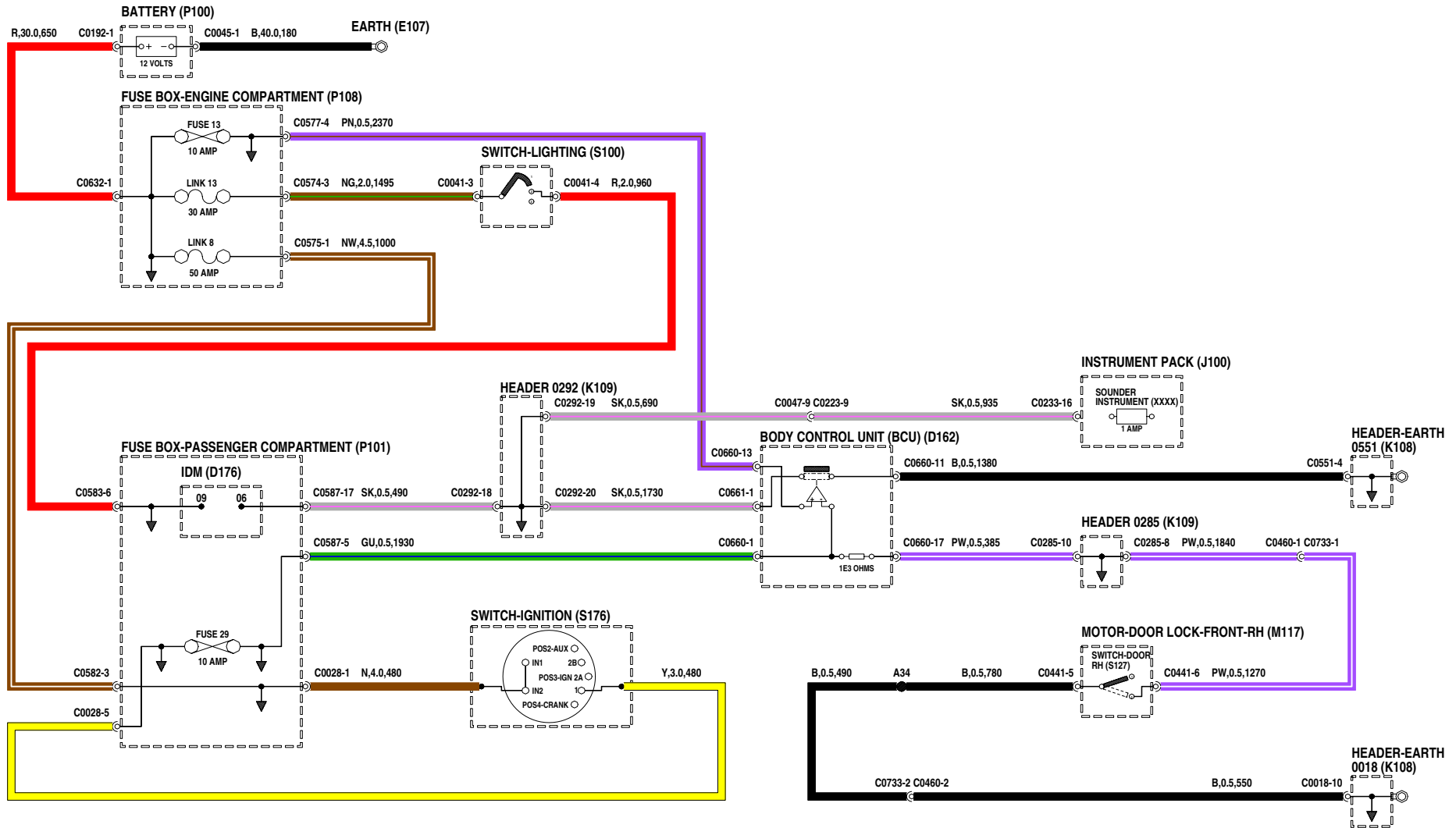
VWR108160-10T1

EXTERIOR LAMPS HEADLAMP LEVELLING

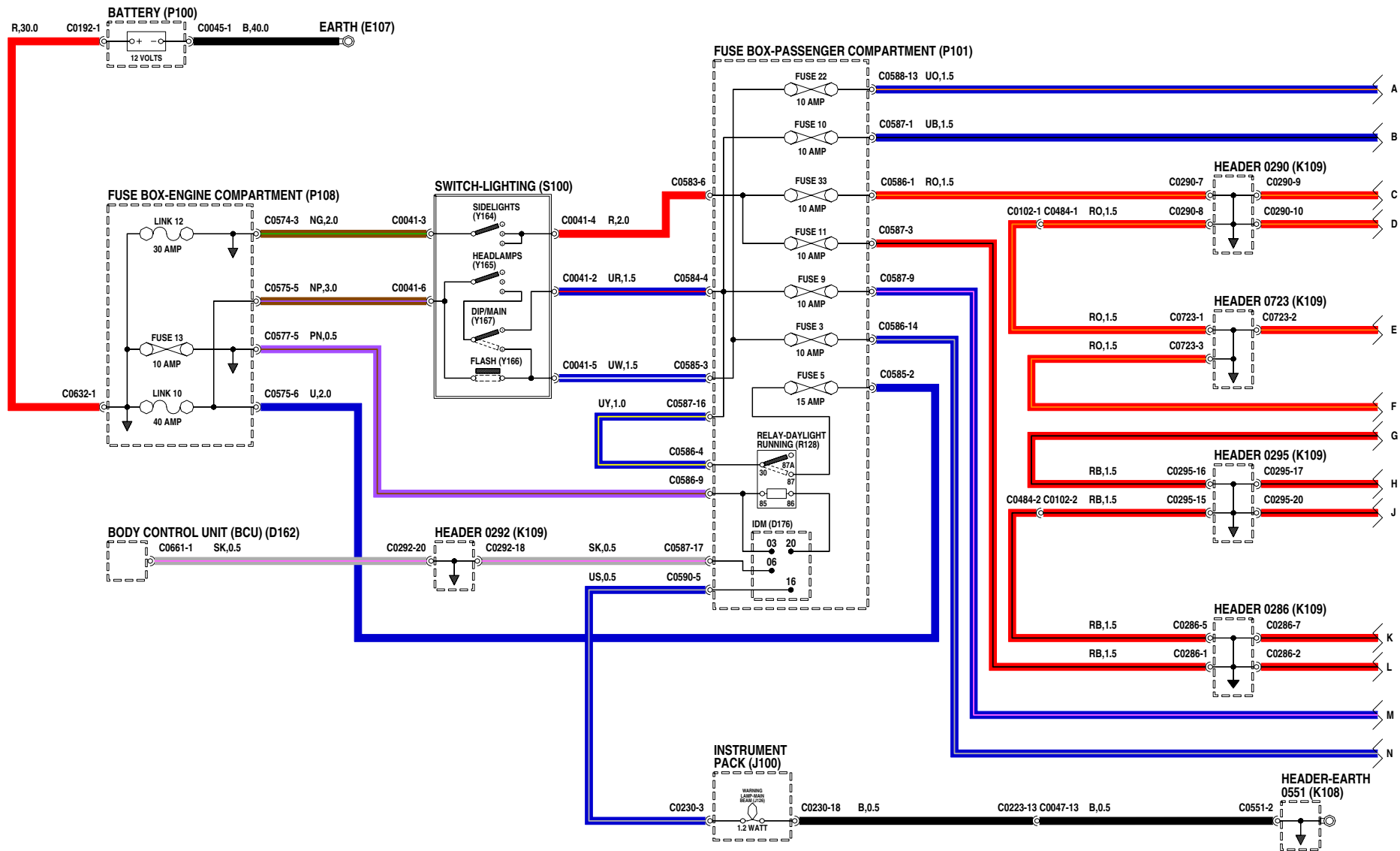


VWR108370-1of1

EXTERIOR LAMPS LIGHTS ON ALARM

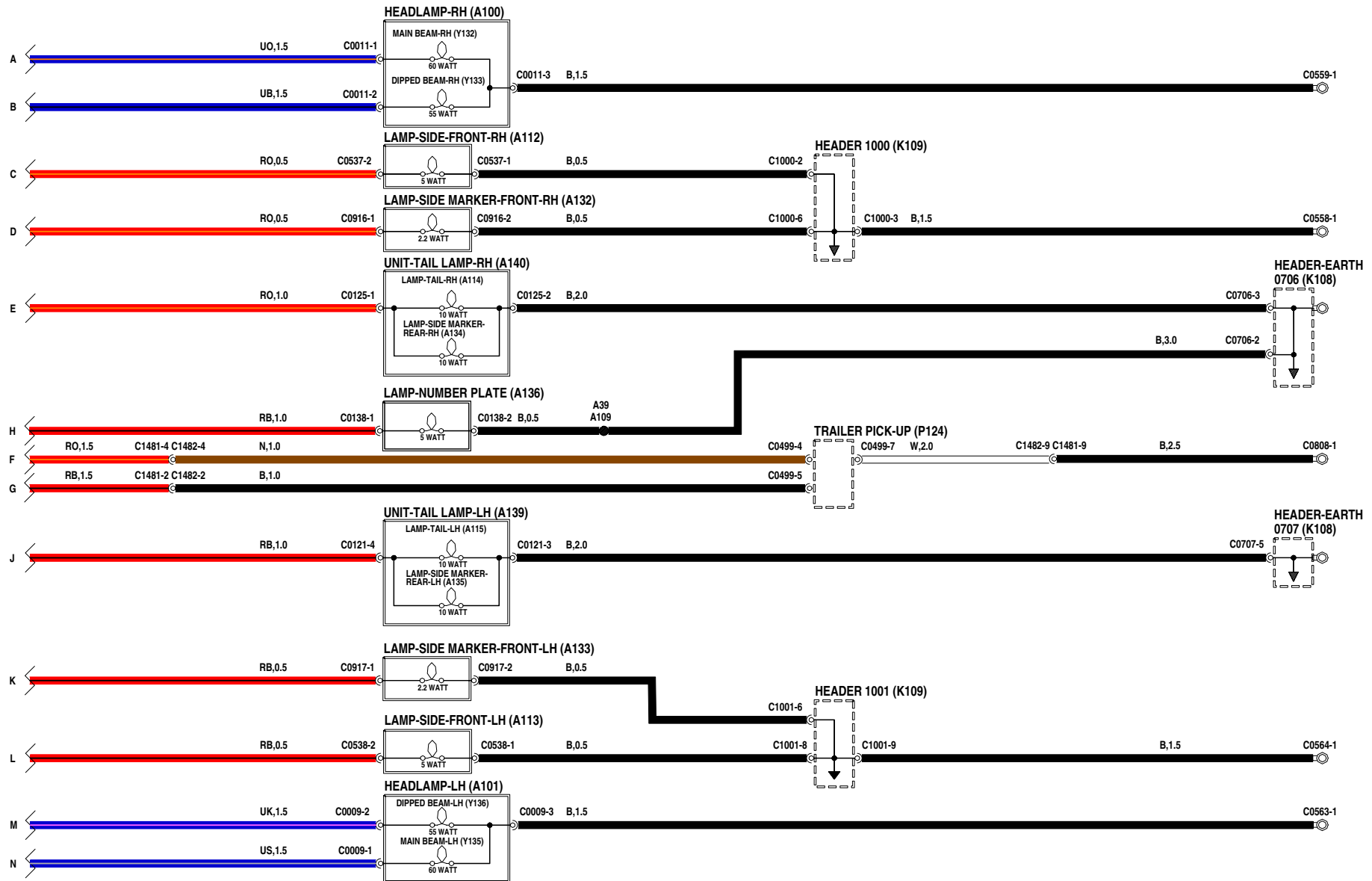


EXTERIOR LAMPS HEAD, SIDE AND TAIL LAMPS



EXTERIOR LAMPS

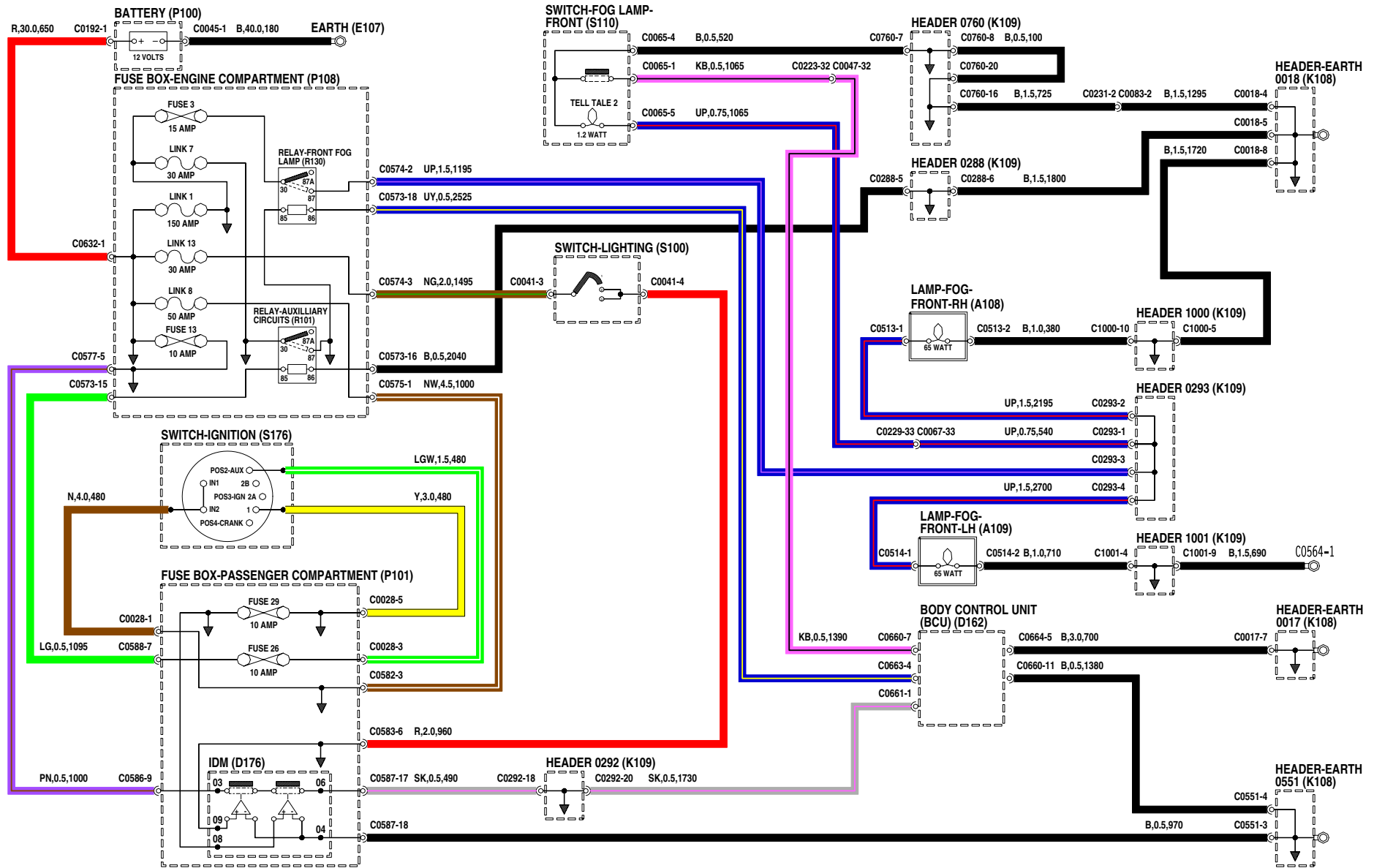
HEAD, SIDE AND TAIL LAMPS



VWR108330-2a/2

EXTERIOR LAMPS

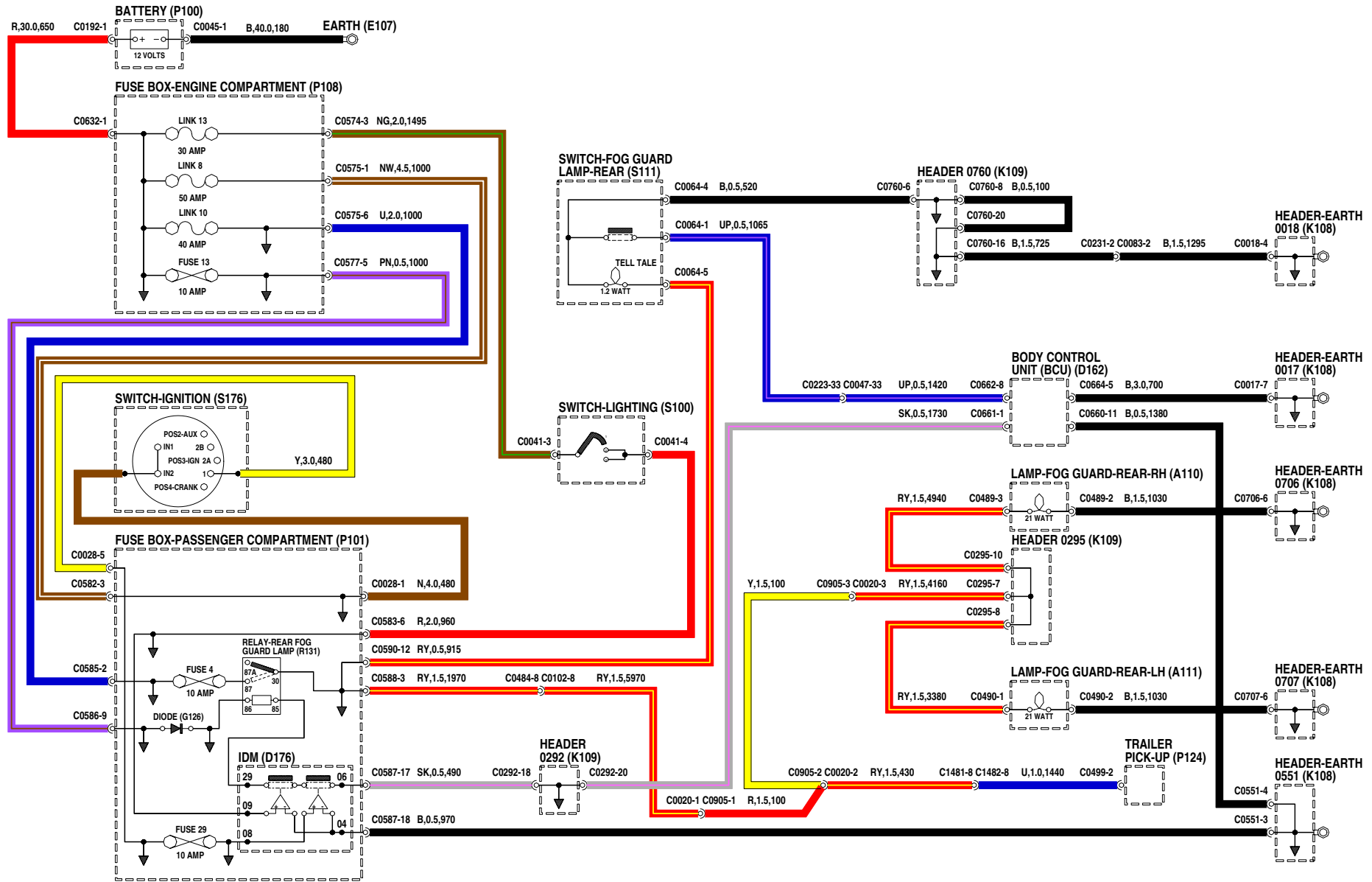
FRONT FOG LAMPS



VWR108290-1011

EXTERIOR LAMPS

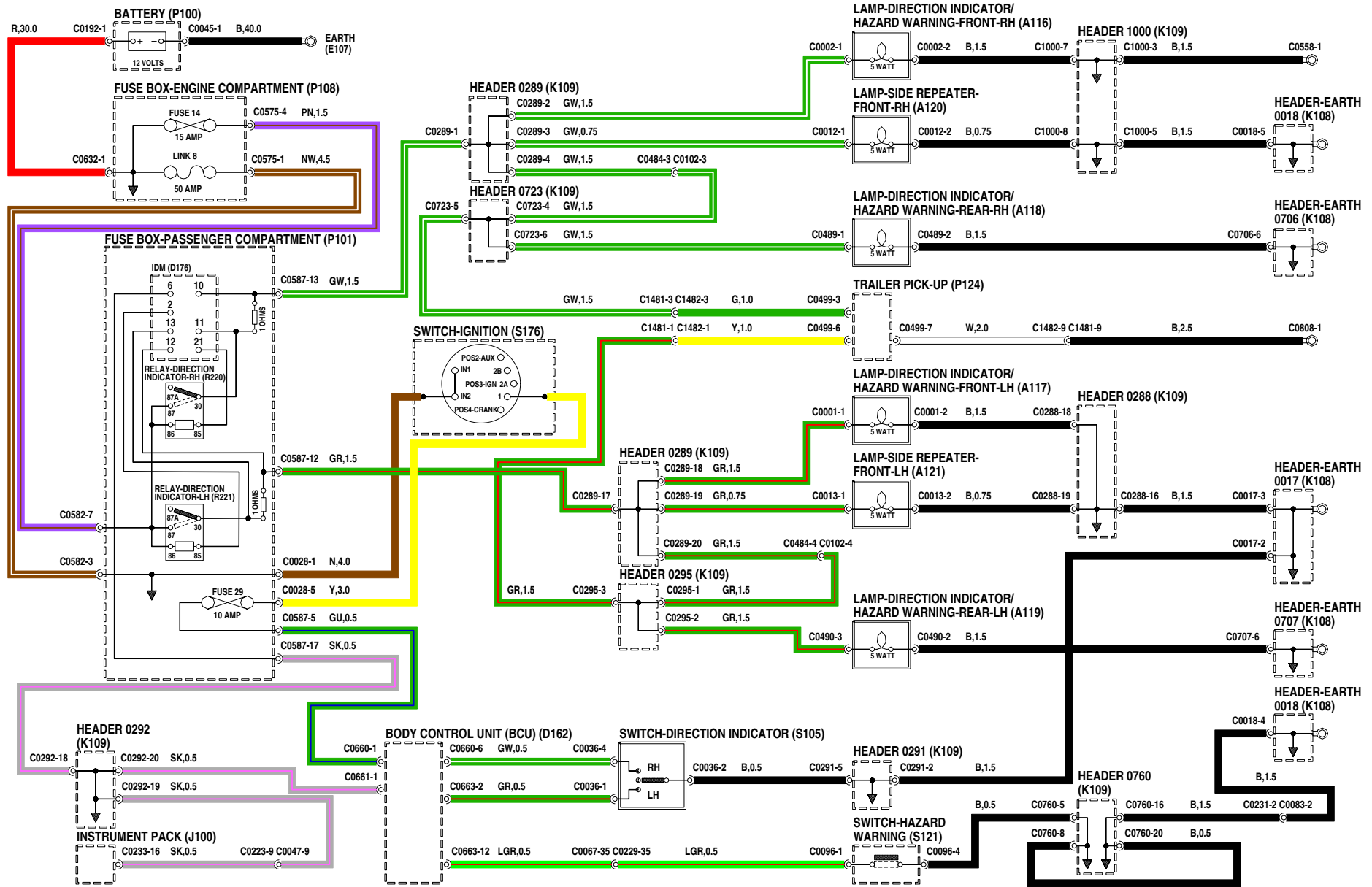
REAR FOG GUARD LAMPS



VWR108300-101

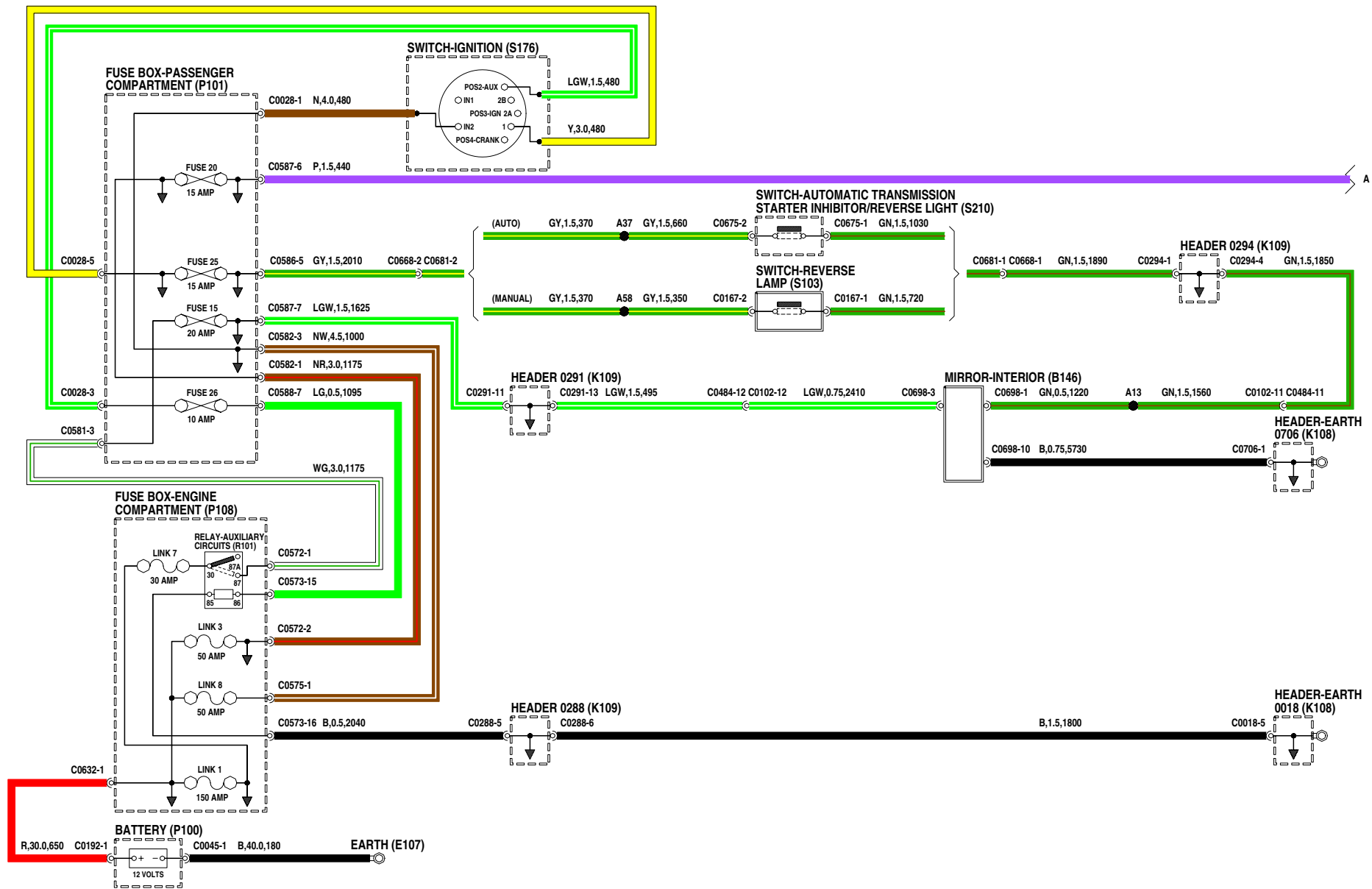
EXTERIOR LAMPS

DIRECTION INDICATOR/HAZARD WARNING LAMPS



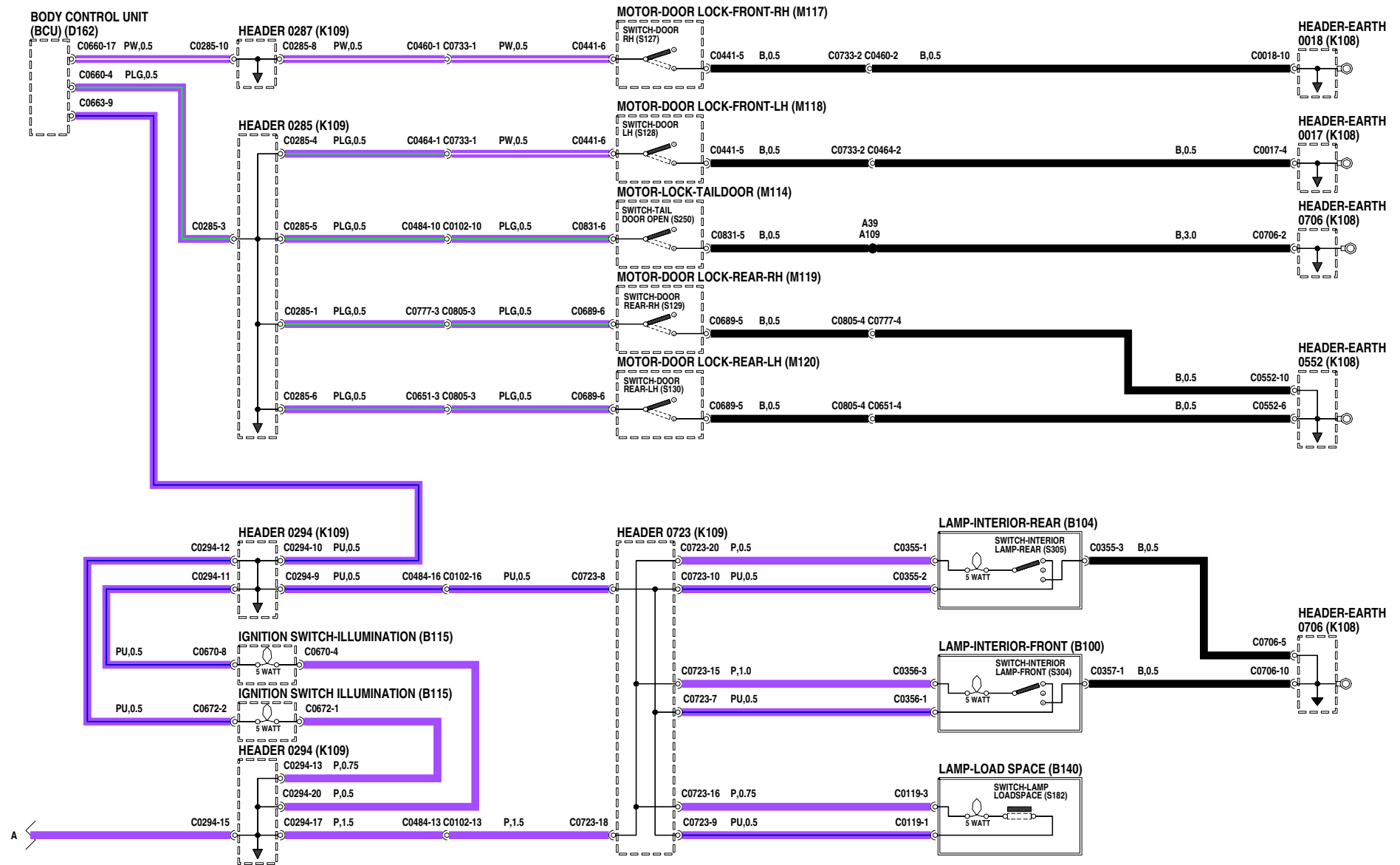
VWR108460-10t1

INTERIOR LAMPS



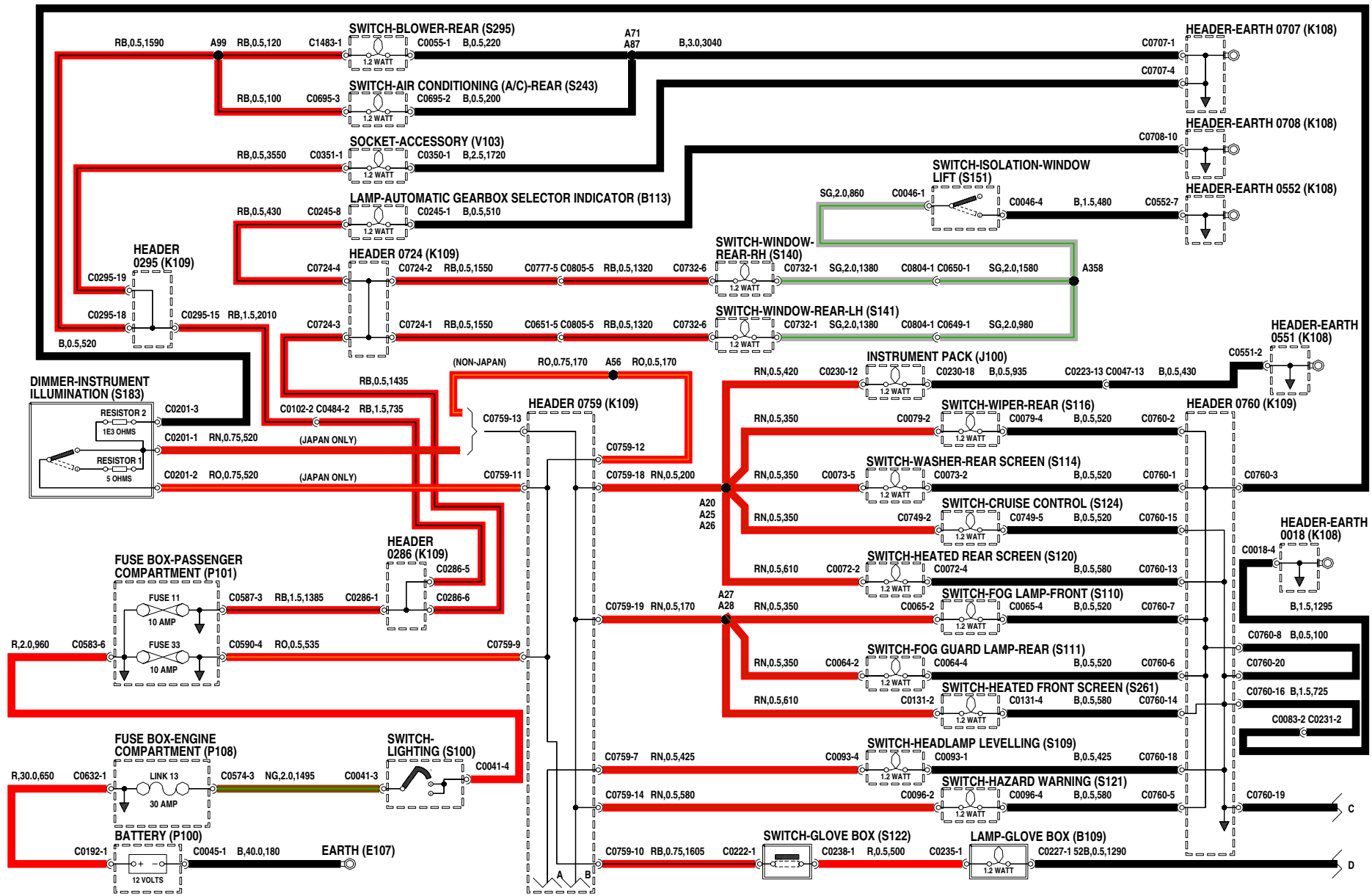
VWR108490-1a2

INTERIOR LAMPS



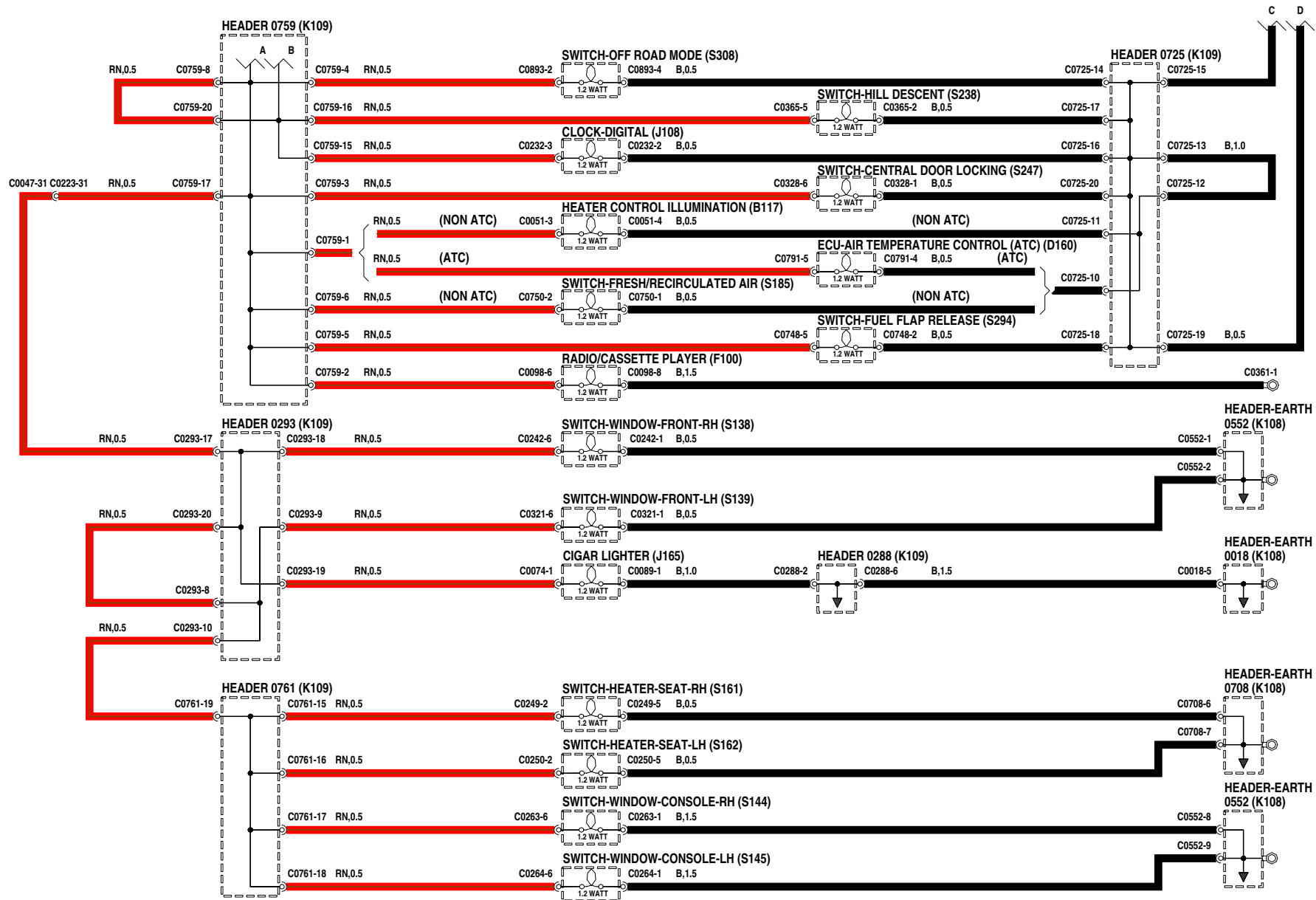
VWR108490_2a/2

INTERIOR ILLUMINATION



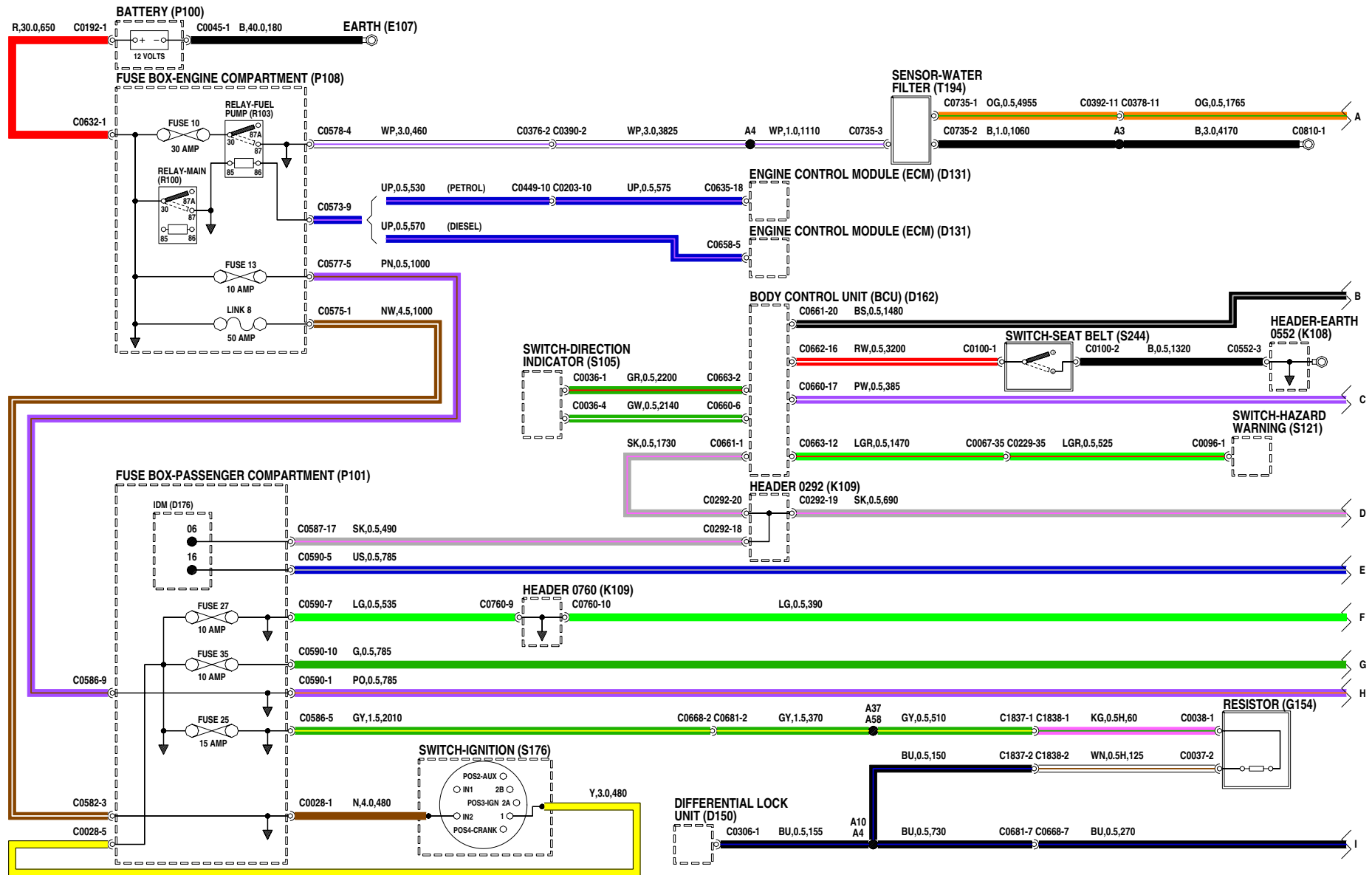
VWR108480-1012

INTERIOR ILLUMINATION



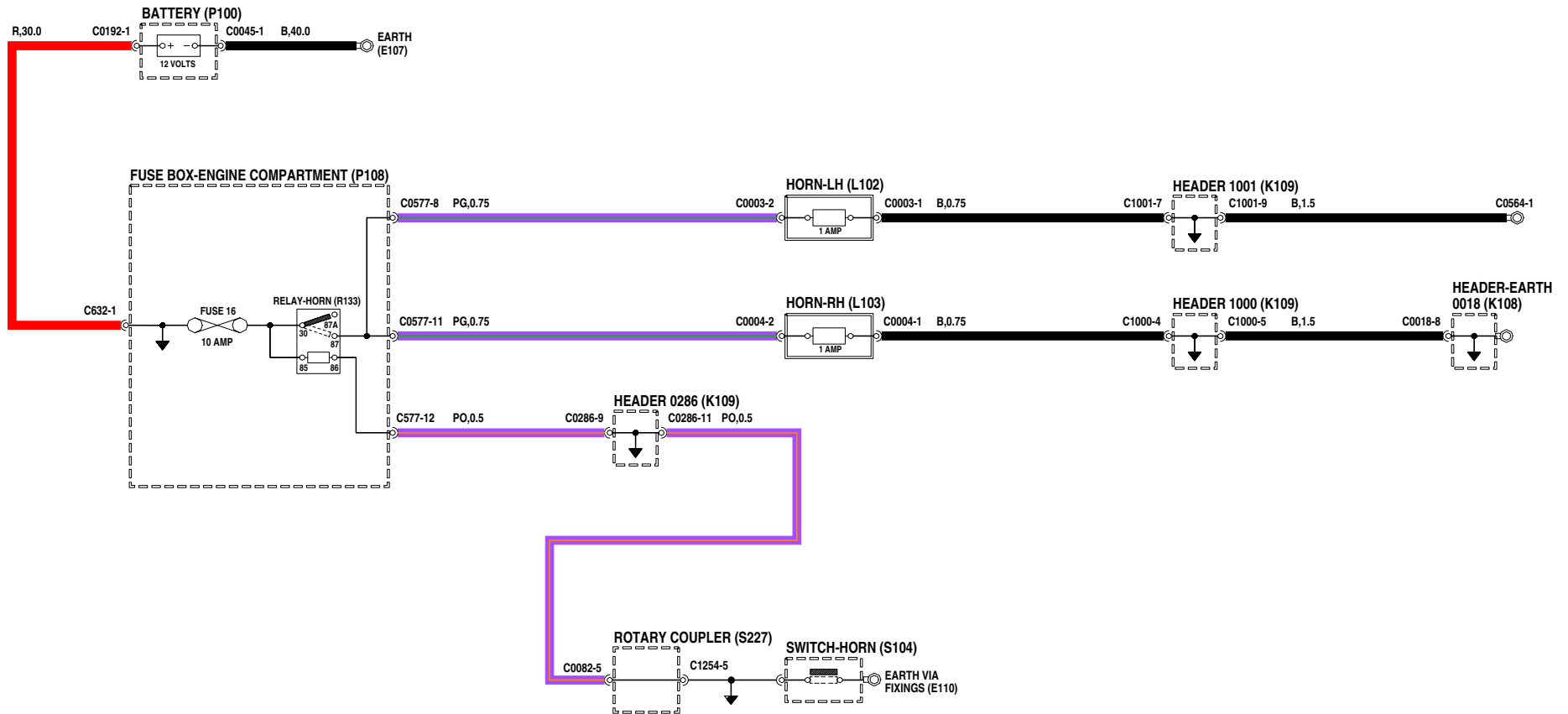
VWR108480-2a/2

INSTRUMENTS

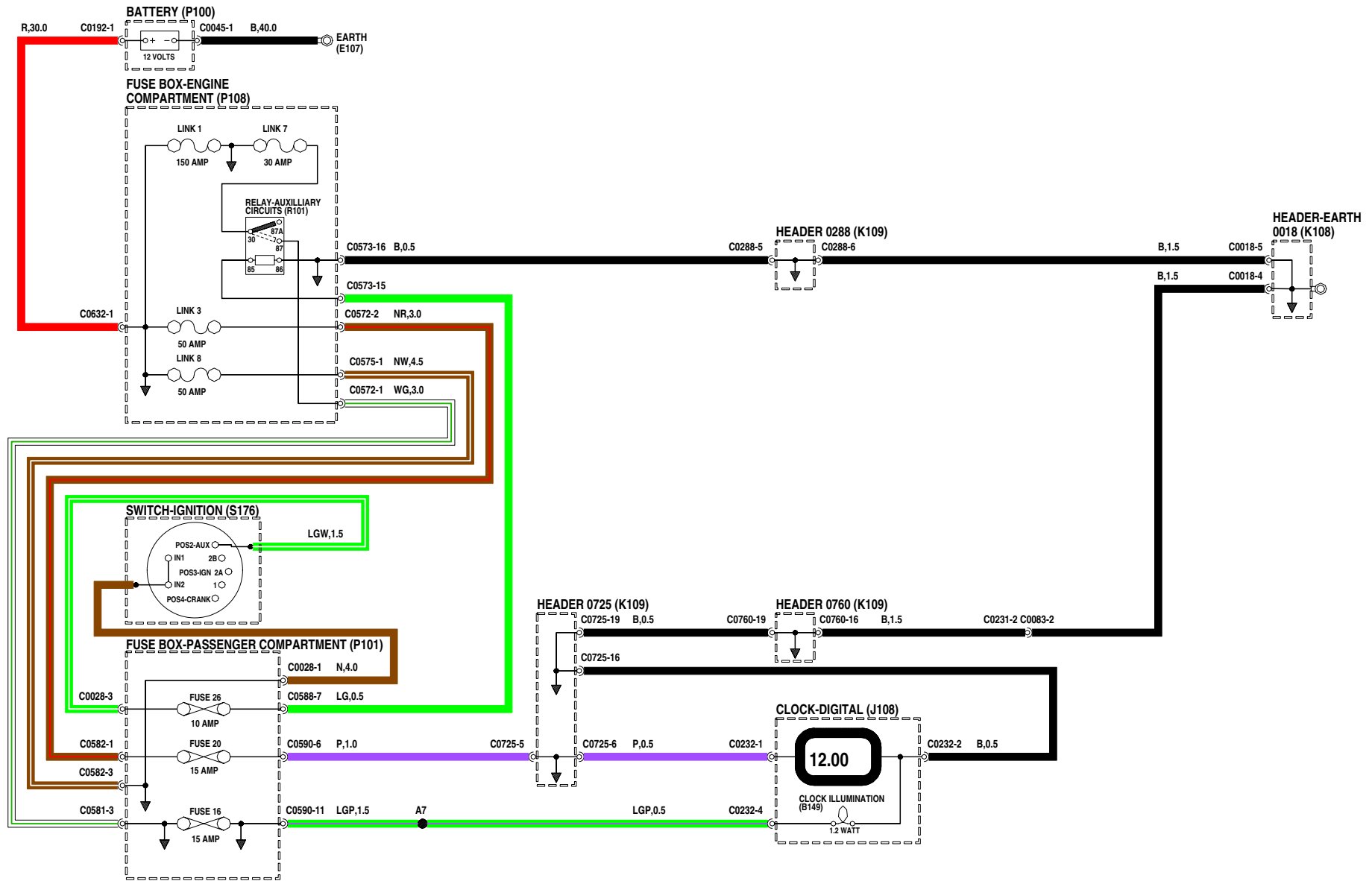


VWR108470-1of3

HORNS

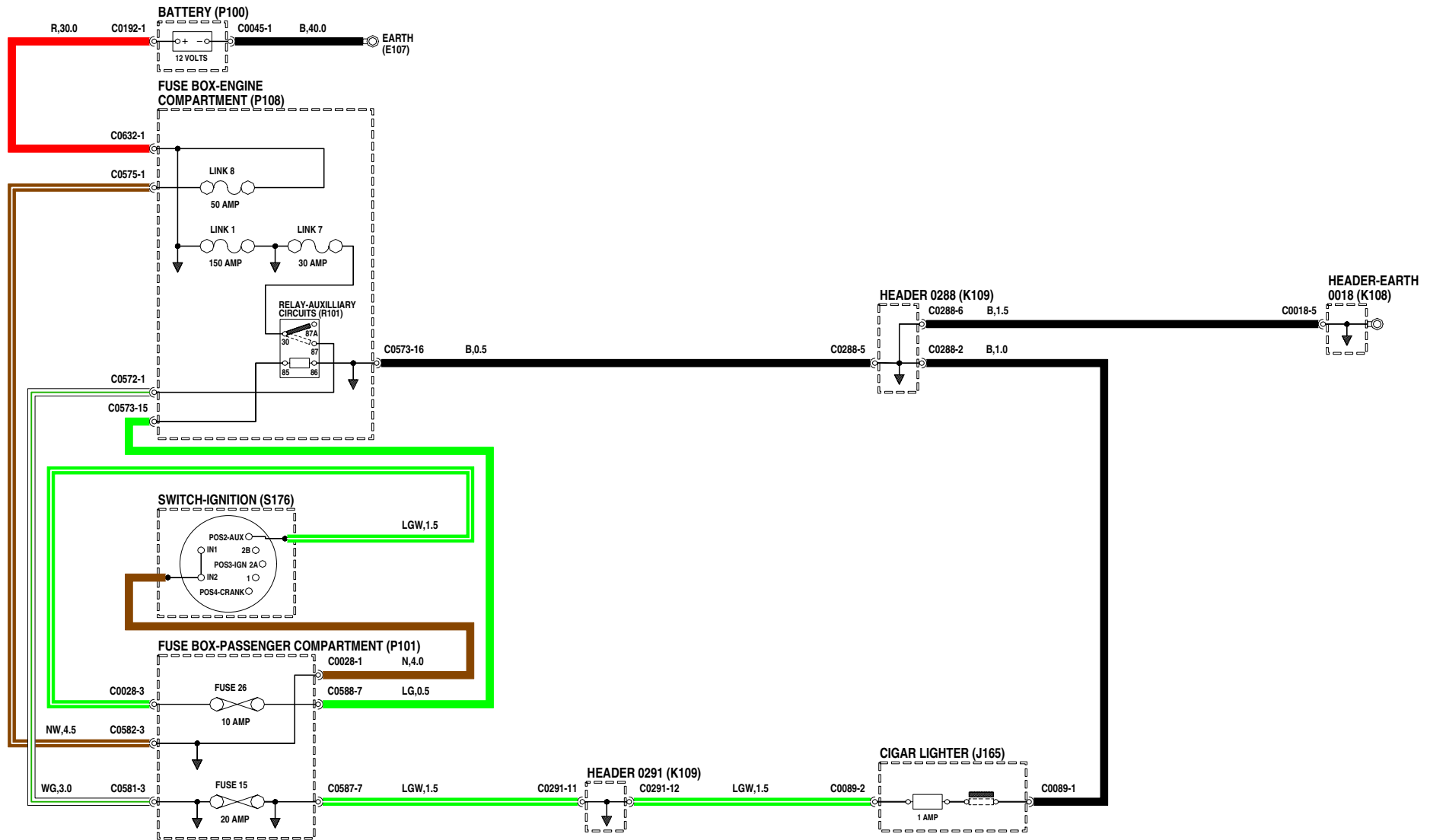


CLOCK



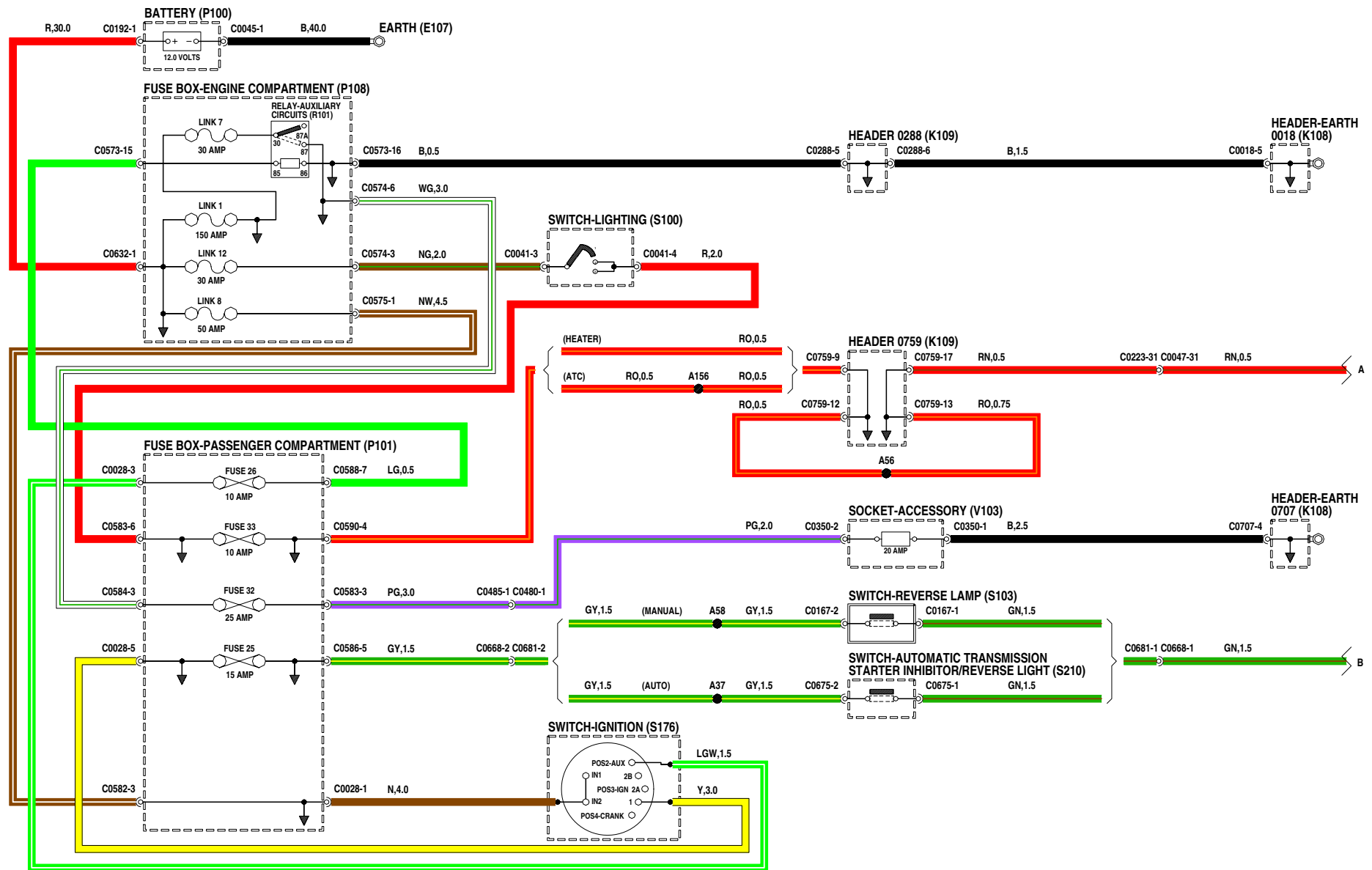
VWR108200-1of1

CIGAR LIGHTER



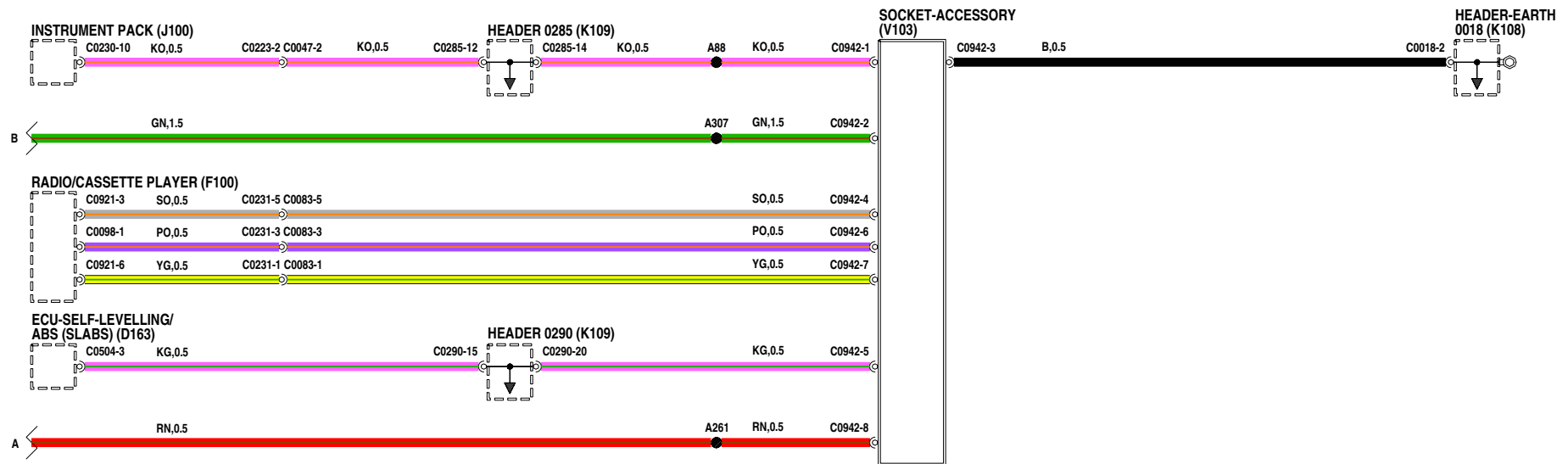
VWR108190-1of1

ACCESSORY SOCKET



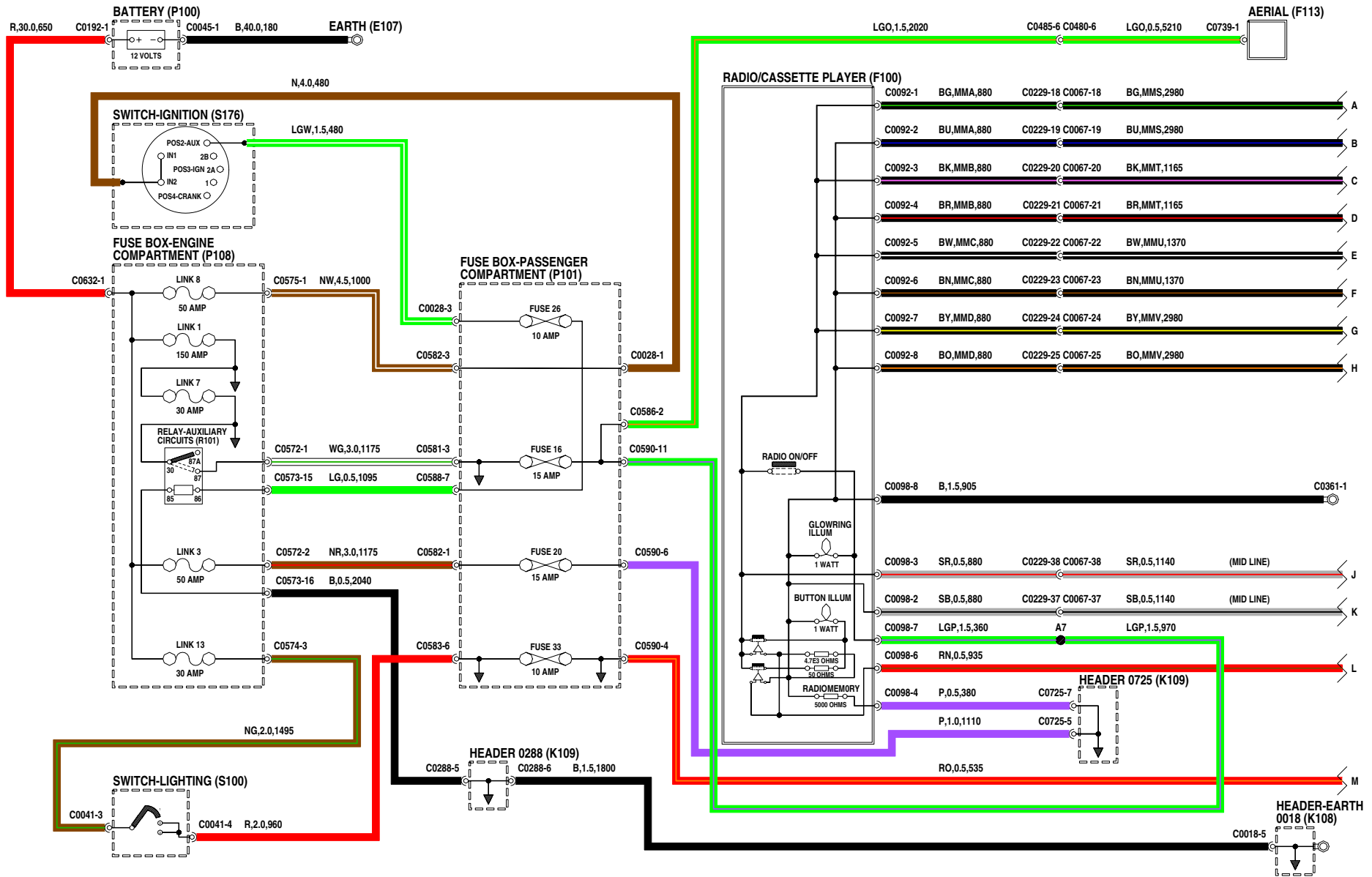
VWR108120-1a2

ACCESSORY SOCKET



AUDIO SYSTEMS

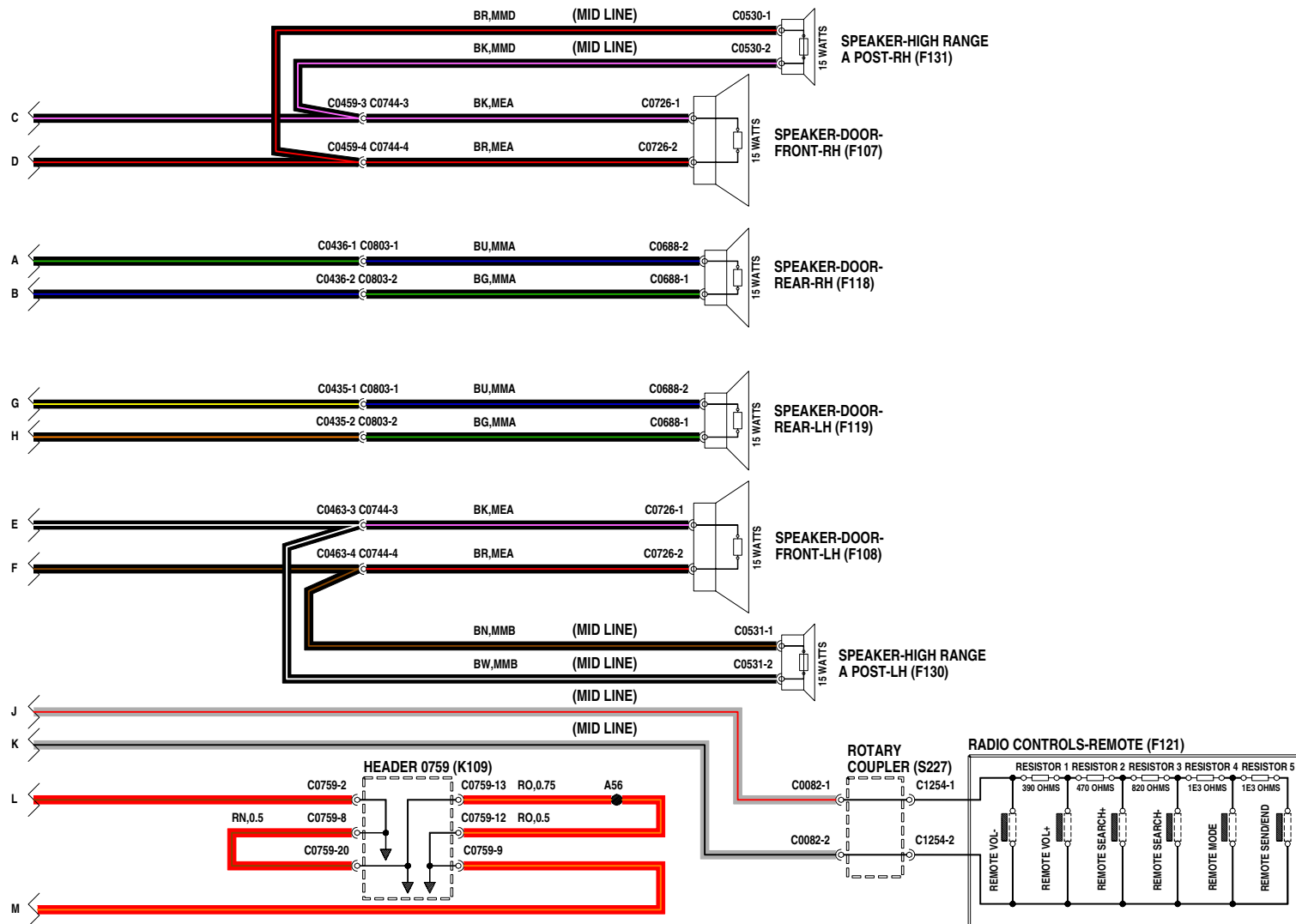
BASE AND MID LINE



VWR108420-1ol2

AUDIO SYSTEMS

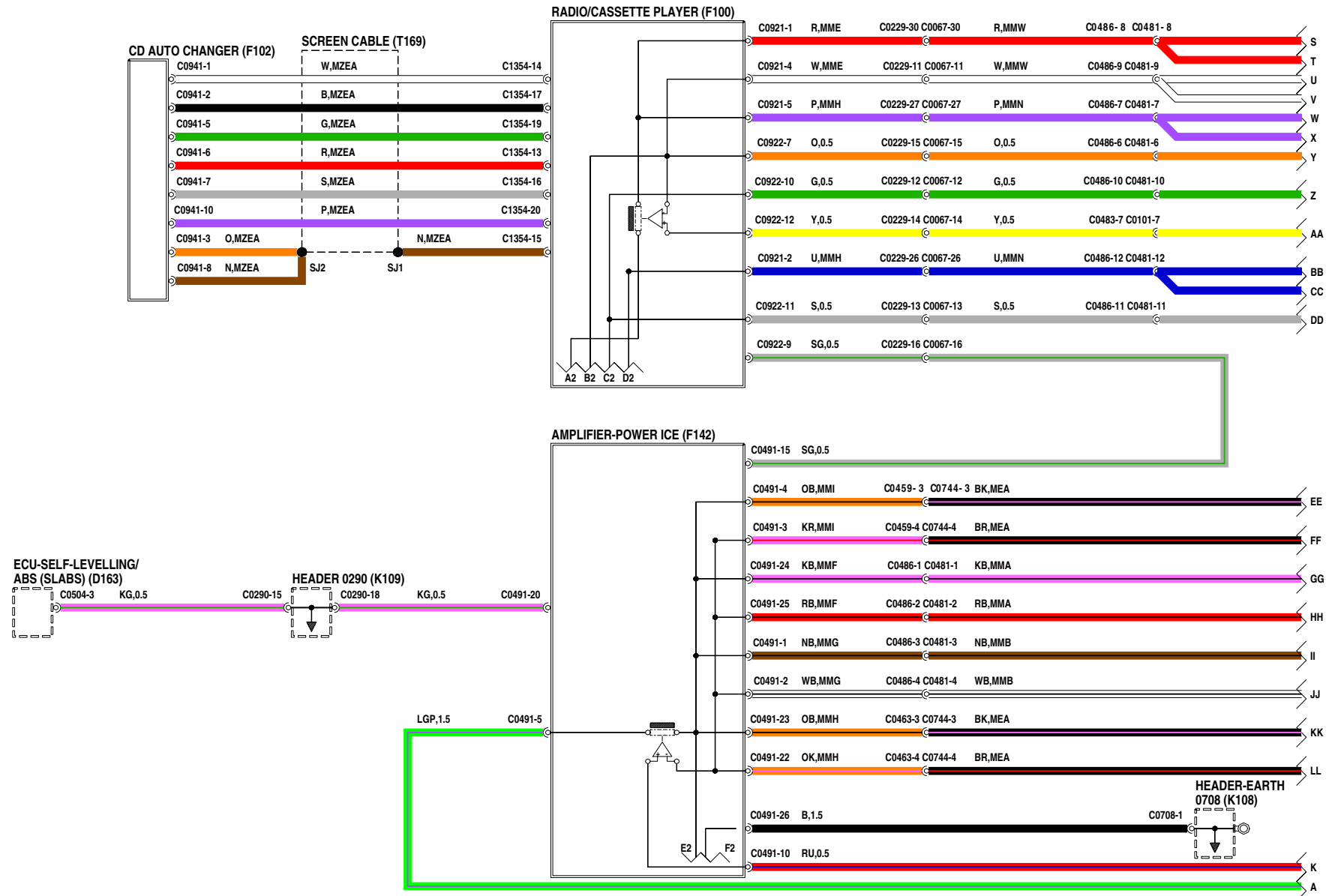
BASE AND MID LINE



VWR108420-2a/2

AUDIO SYSTEMS

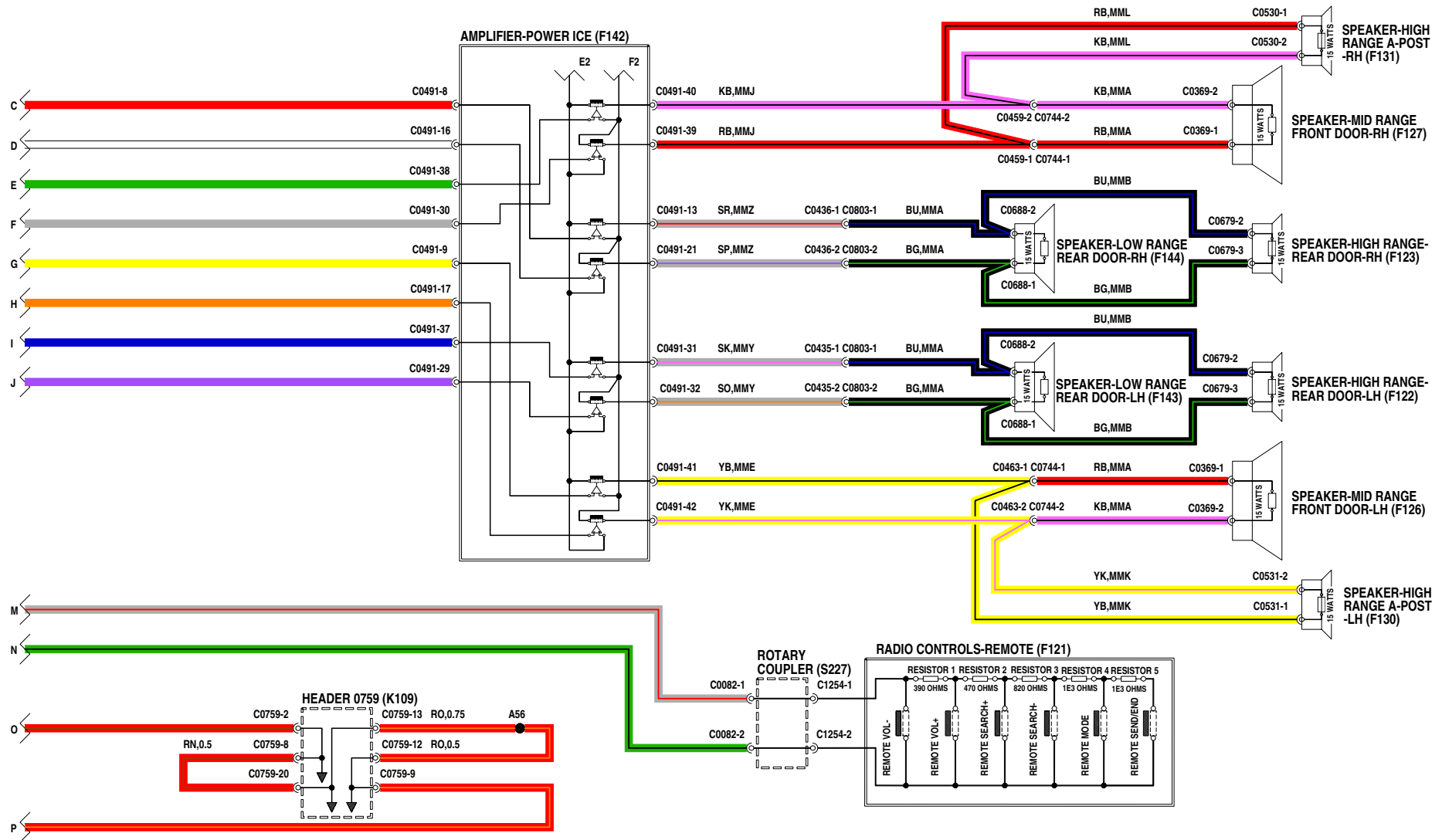
HIGH LINE - HARMAN AMPLIFIER



VWR108440-2x03

AUDIO SYSTEMS

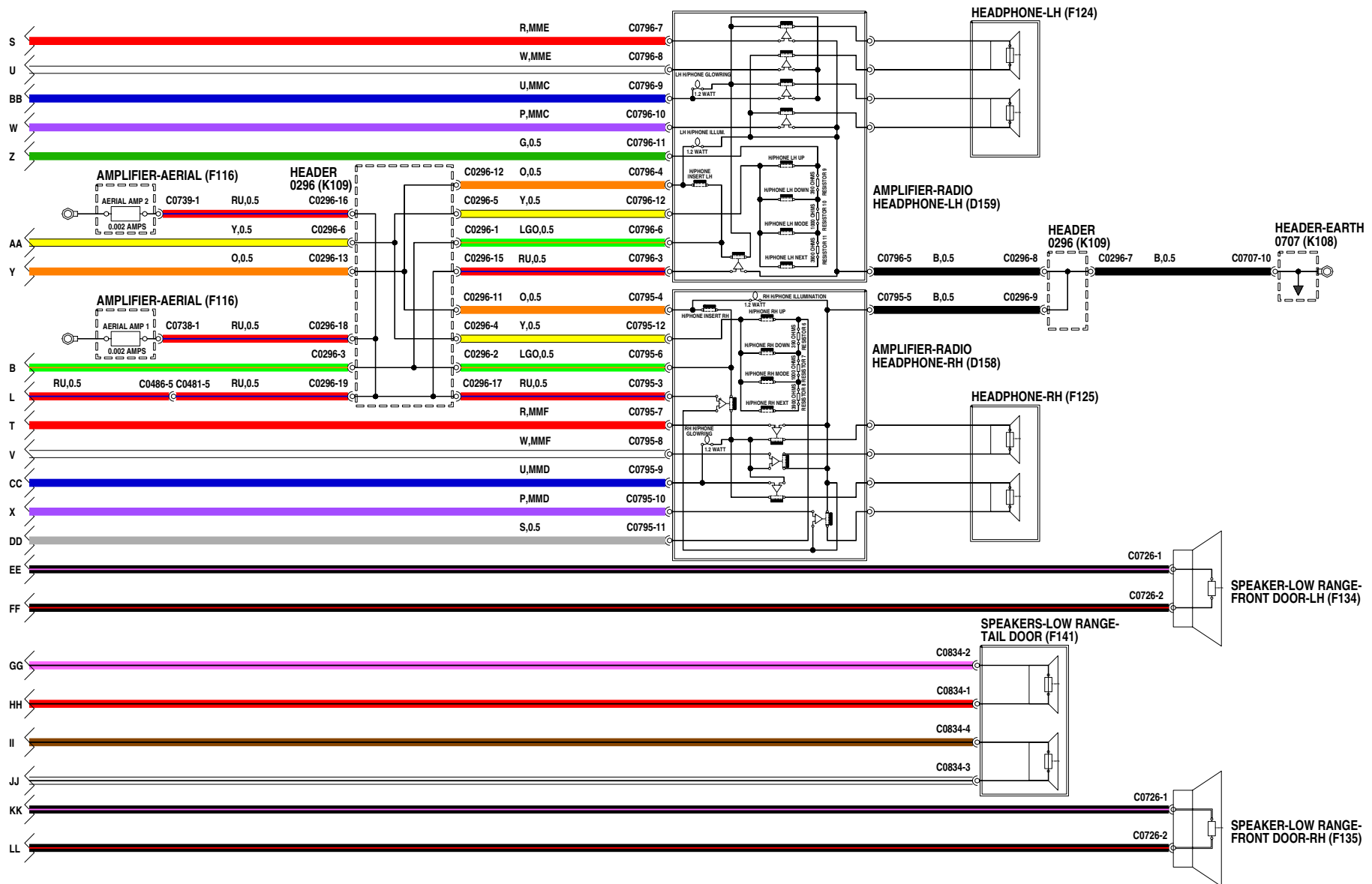
HIGH LINE - HARMAN AMPLIFIER



VWR108440-3a/3

AUDIO SYSTEMS

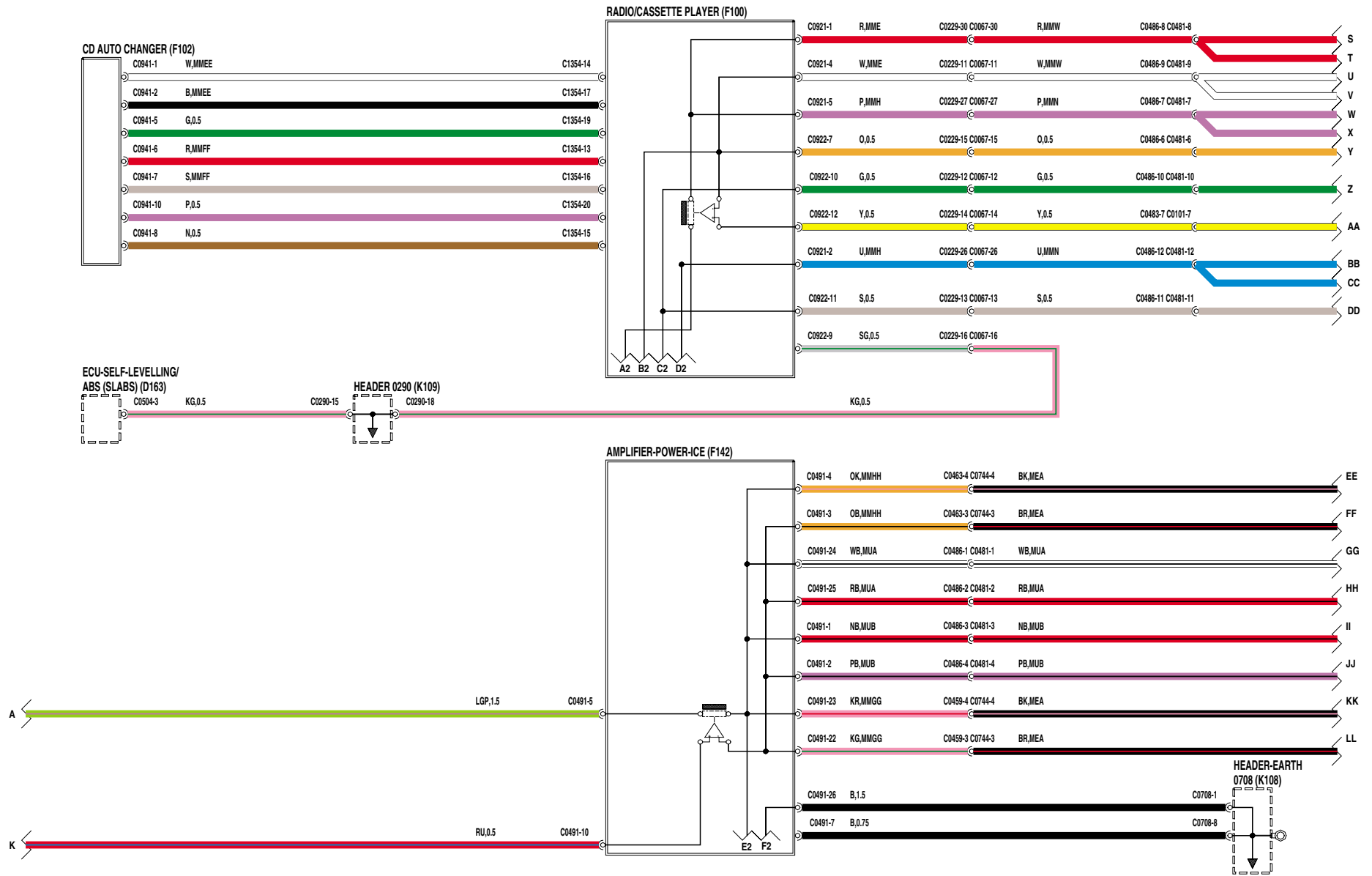
HIGH-LINE - HARMAN AMPLIFIER



VWR108440-4a4

AUDIO SYSTEMS

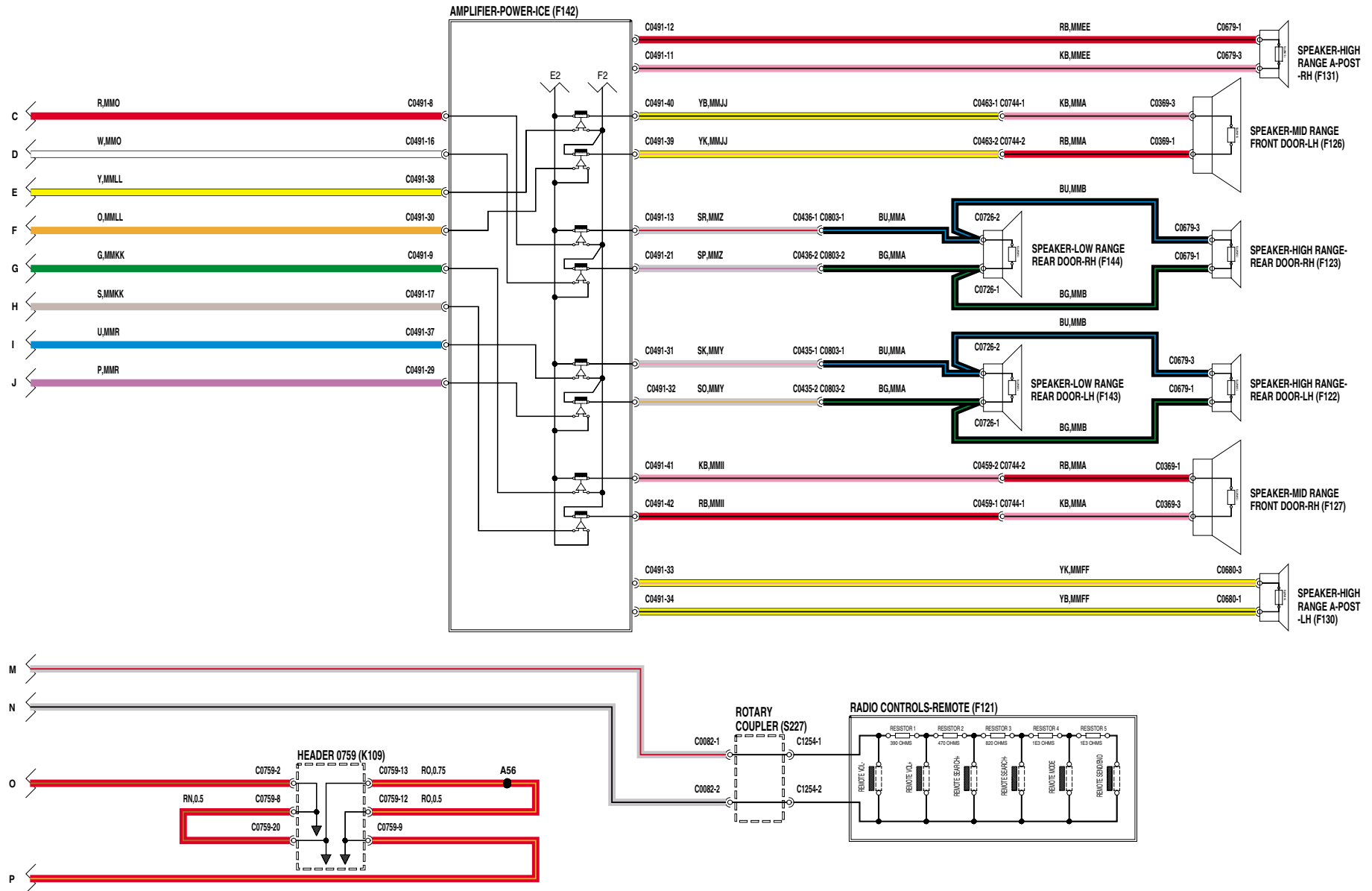
HIGH LINE - LEAR AMPLIFIER



VWR001480-A-02

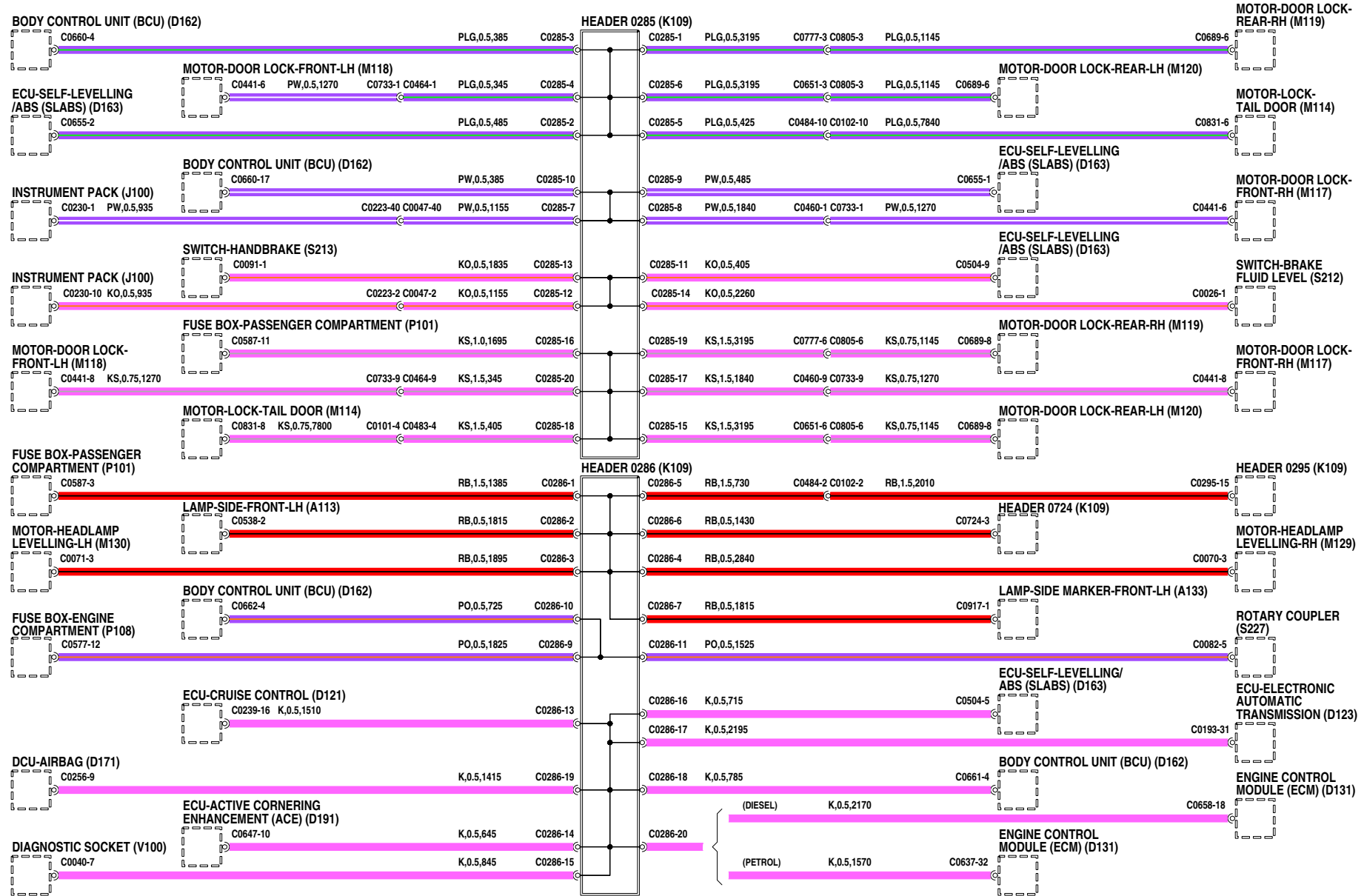
AUDIO SYSTEMS

HIGH LINE - LEAR AMPLIFIER



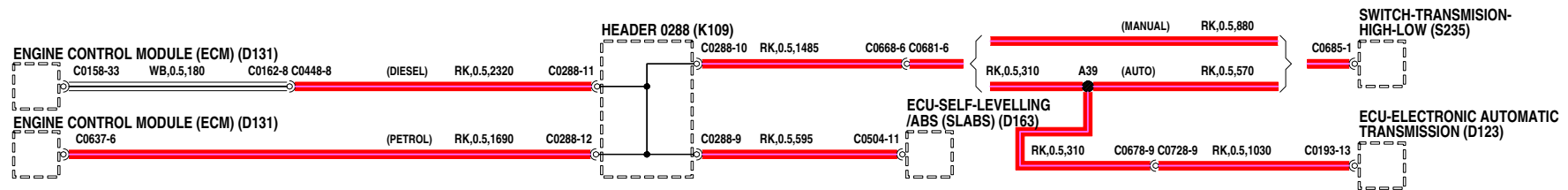
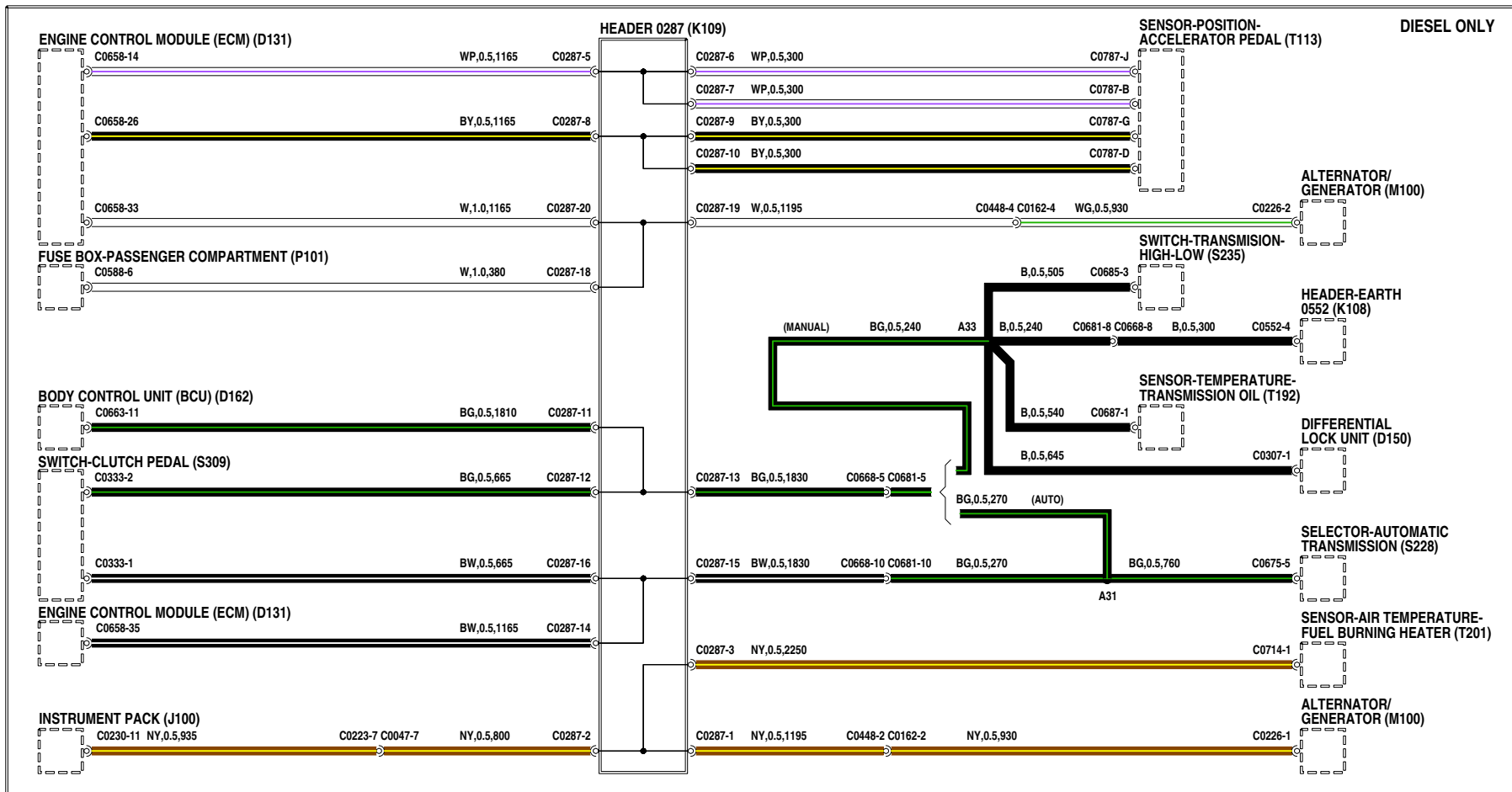
VWR001480-A-03

HEADER JOINTS

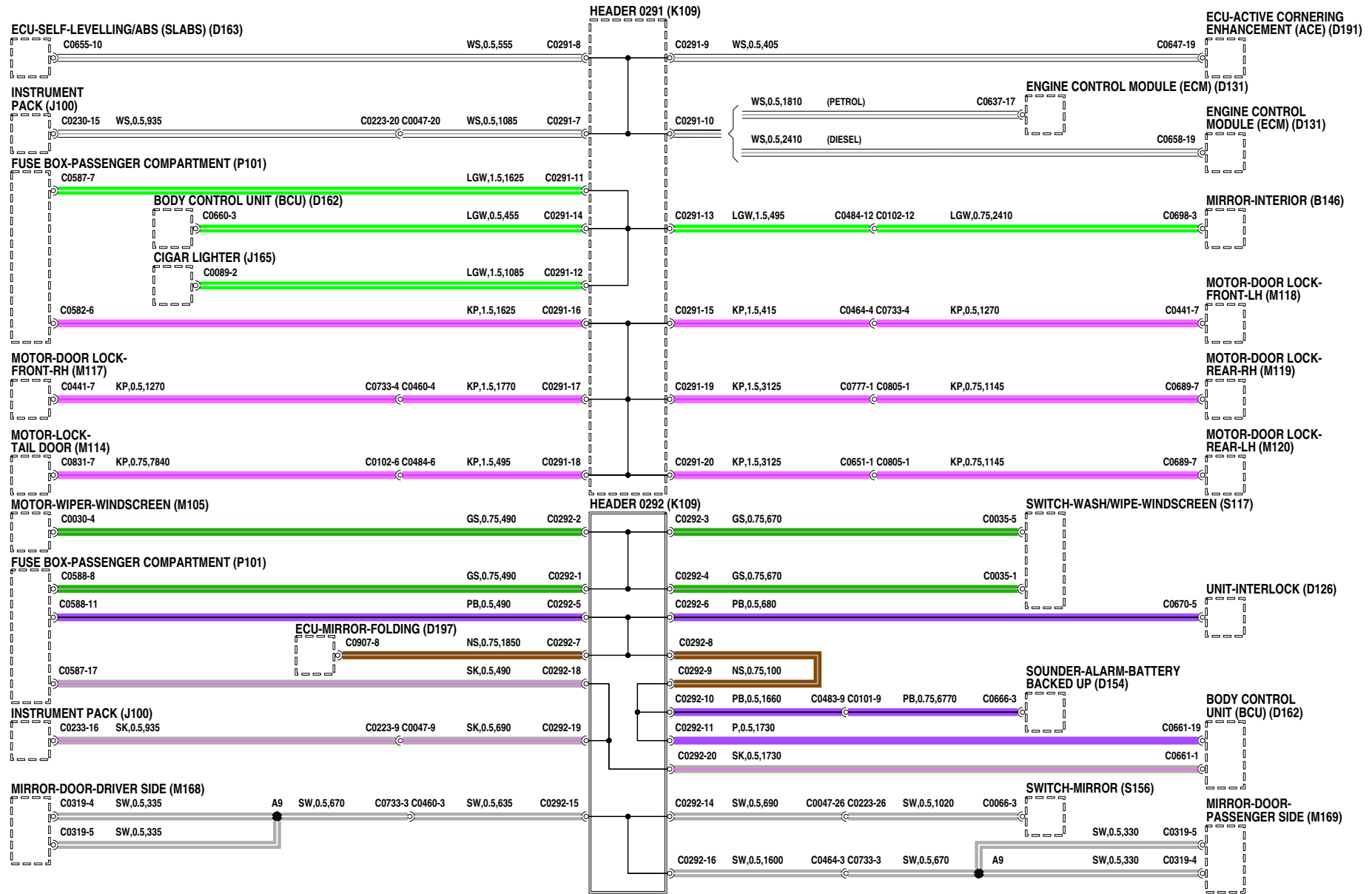


VWR108360-1019

HEADER JOINTS

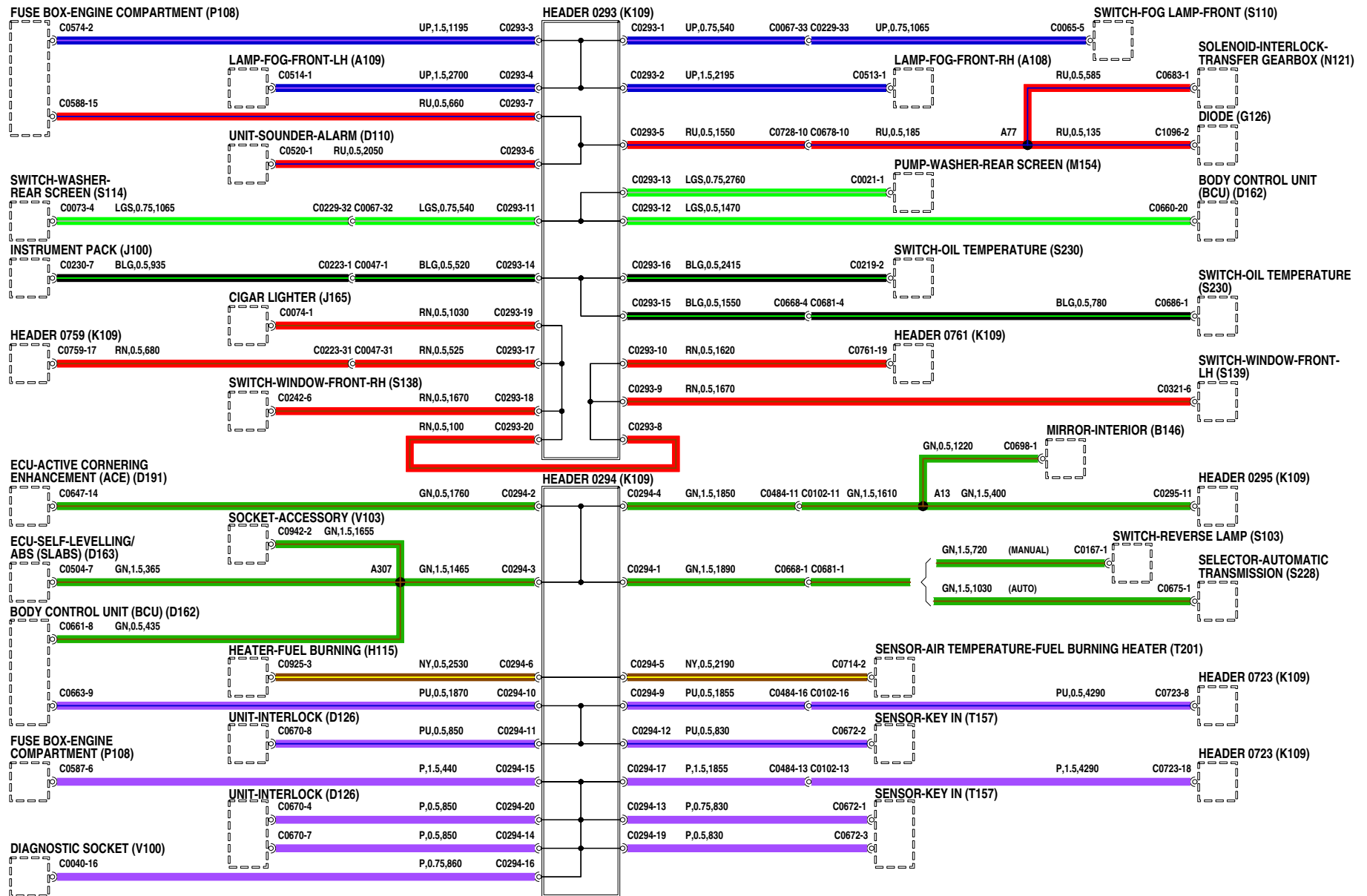


HEADER JOINTS

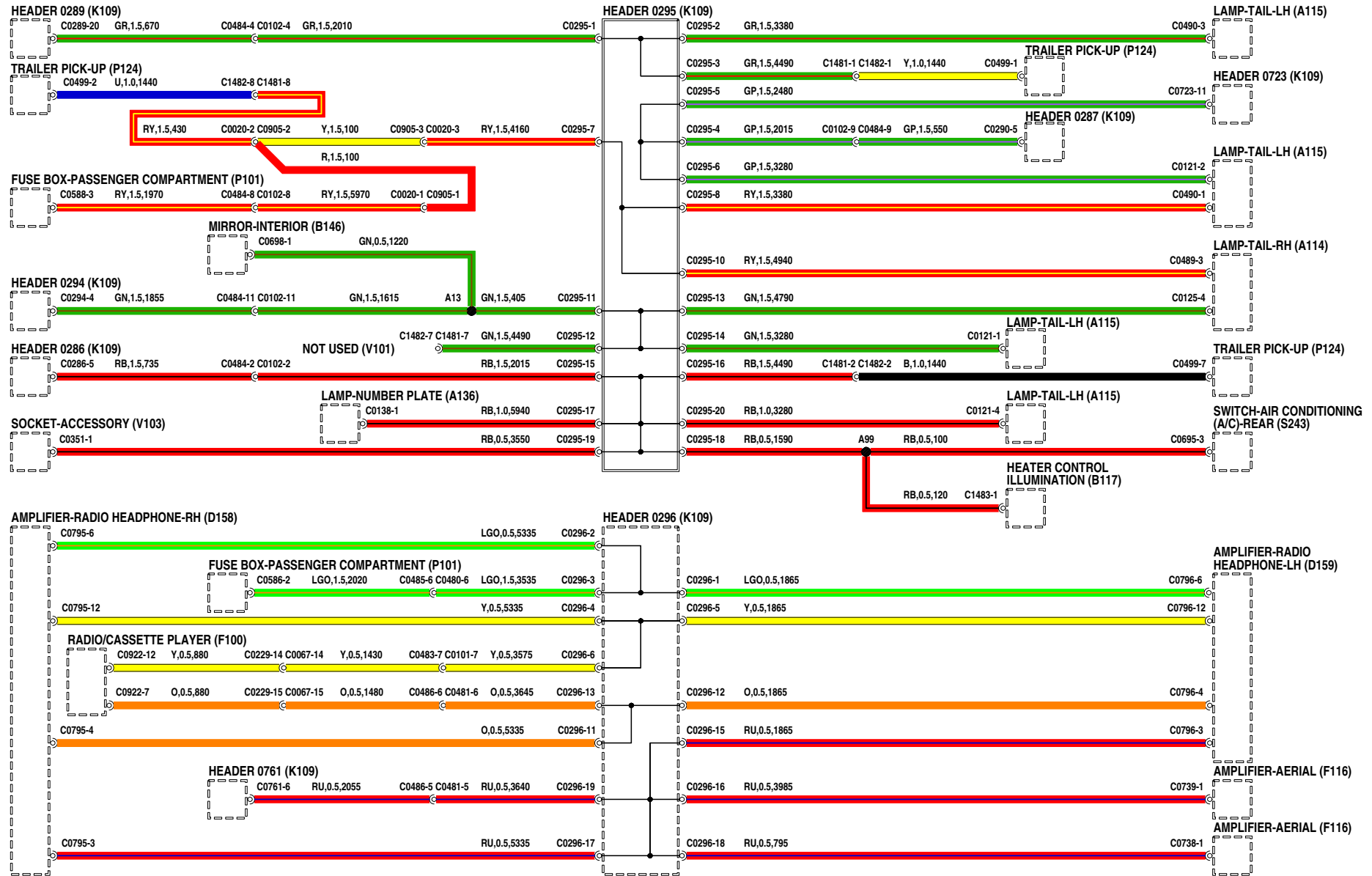


VWR108360-4of9

HEADER JOINTS

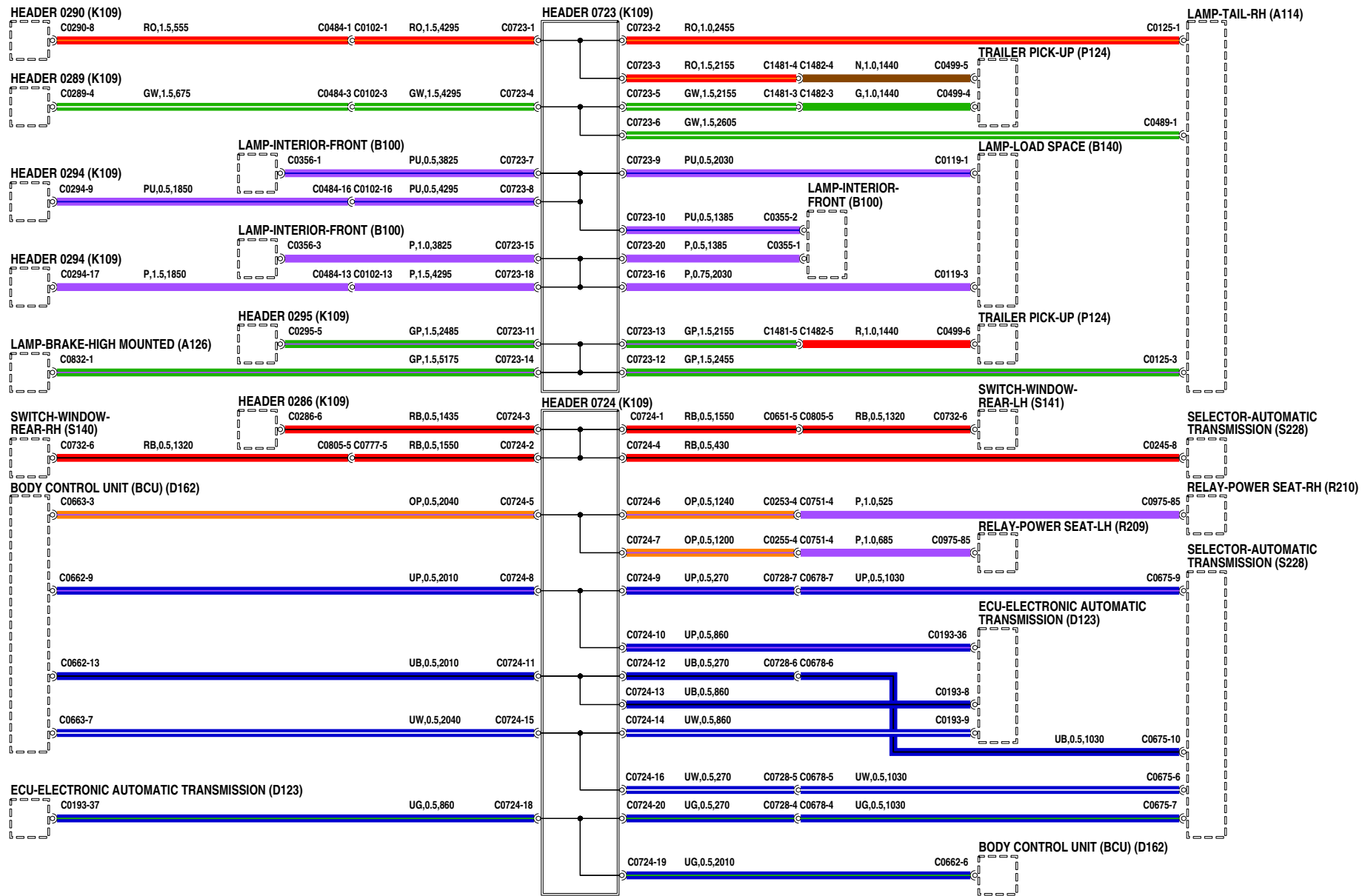


HEADER JOINTS



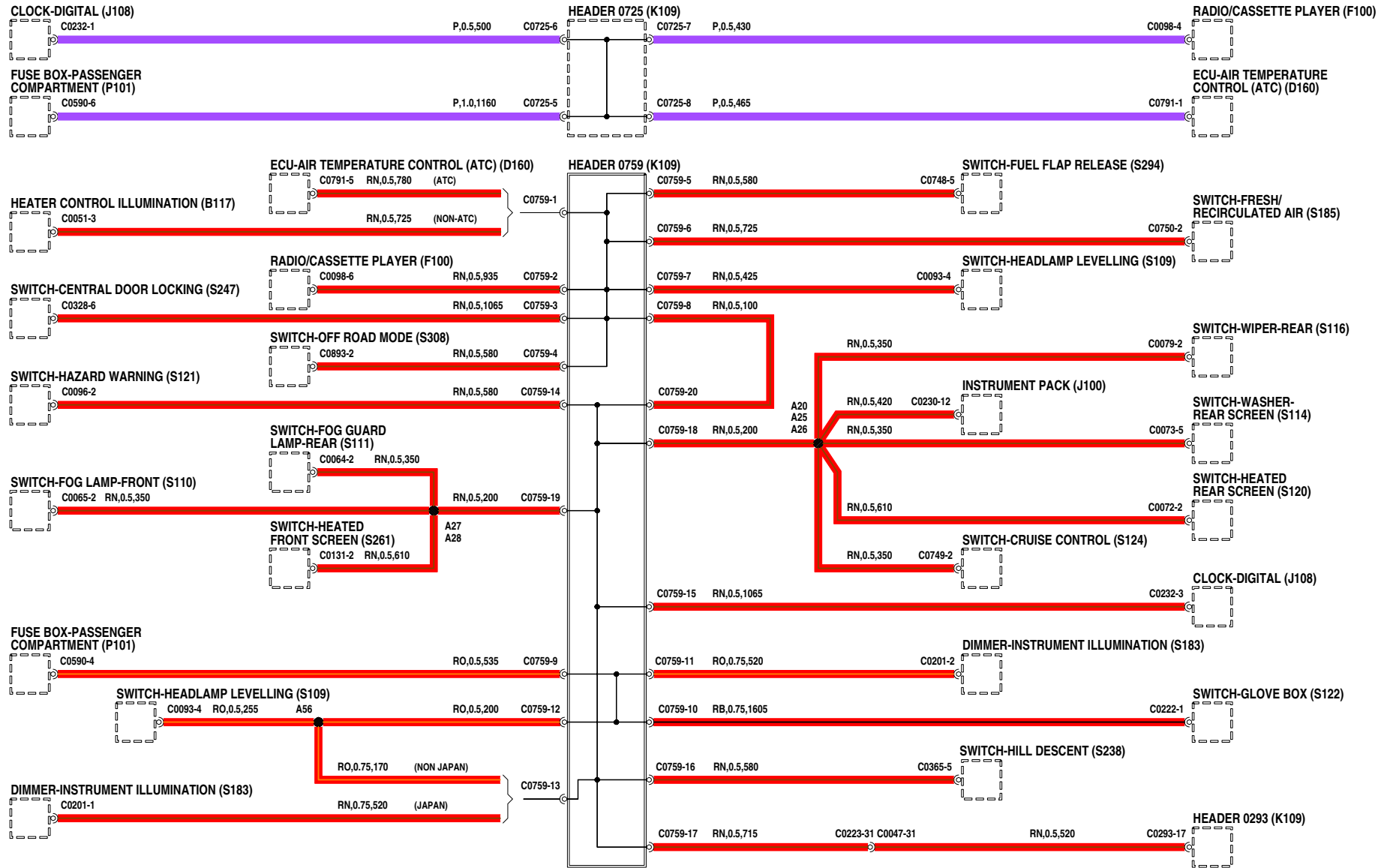
VWR108380-6019

HEADER JOINTS



VWR108360-7of9

HEADER JOINTS

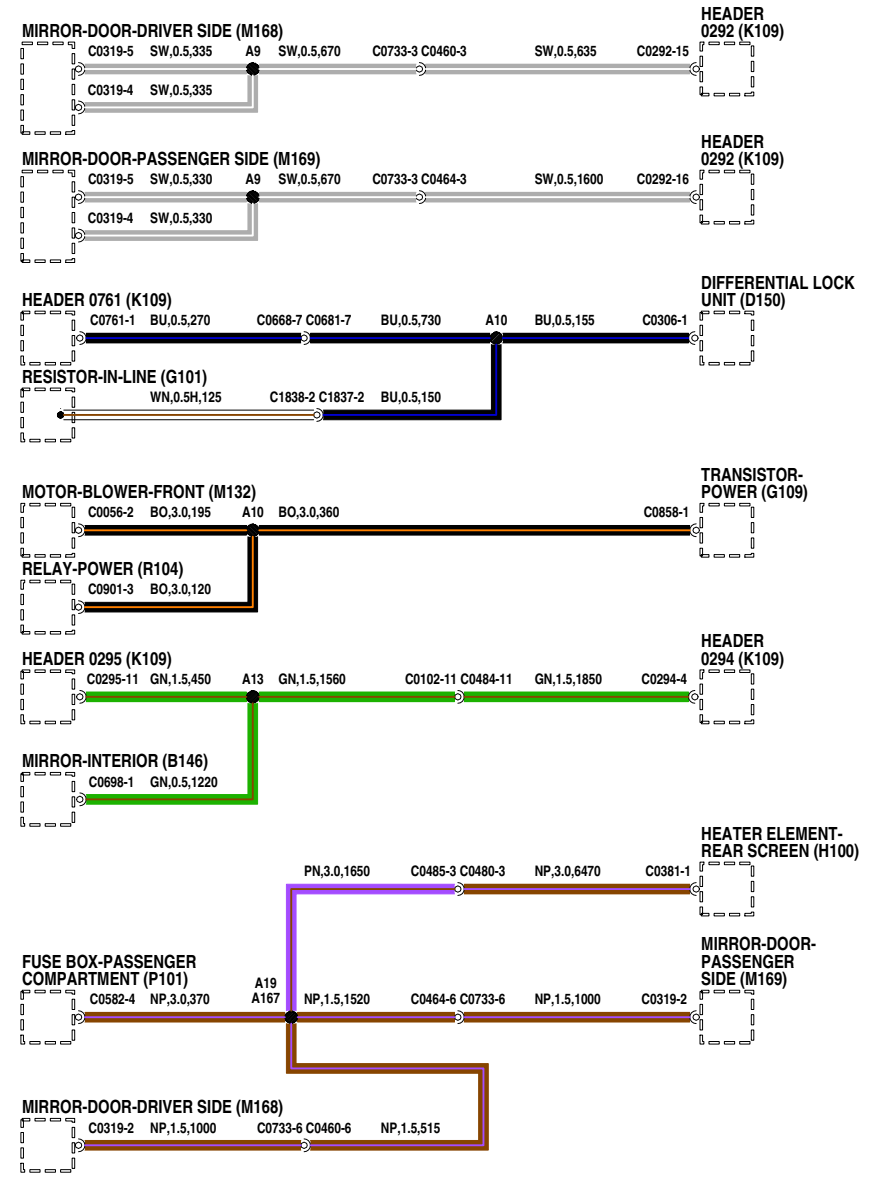
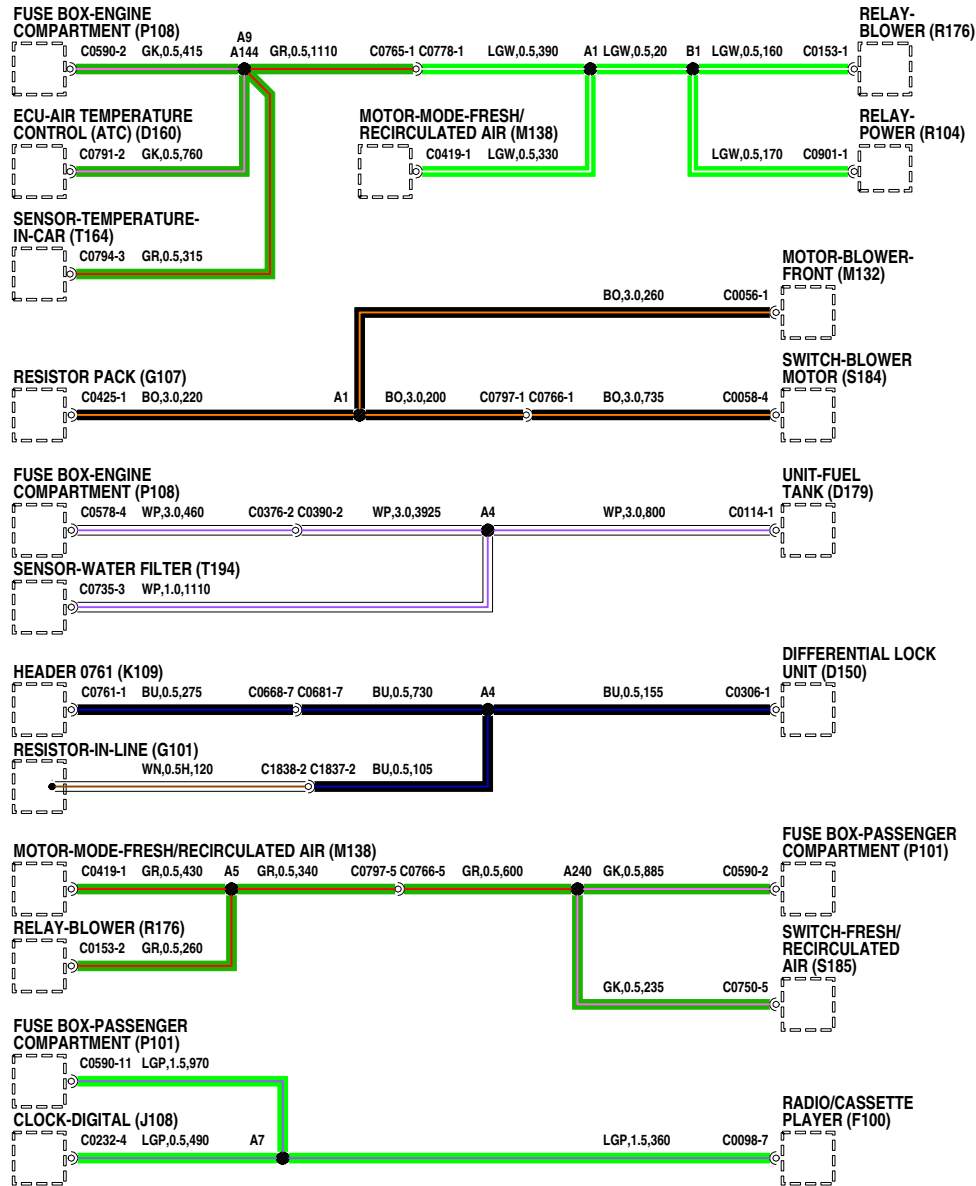


VWR108360-8of9

HEADER JOINTS

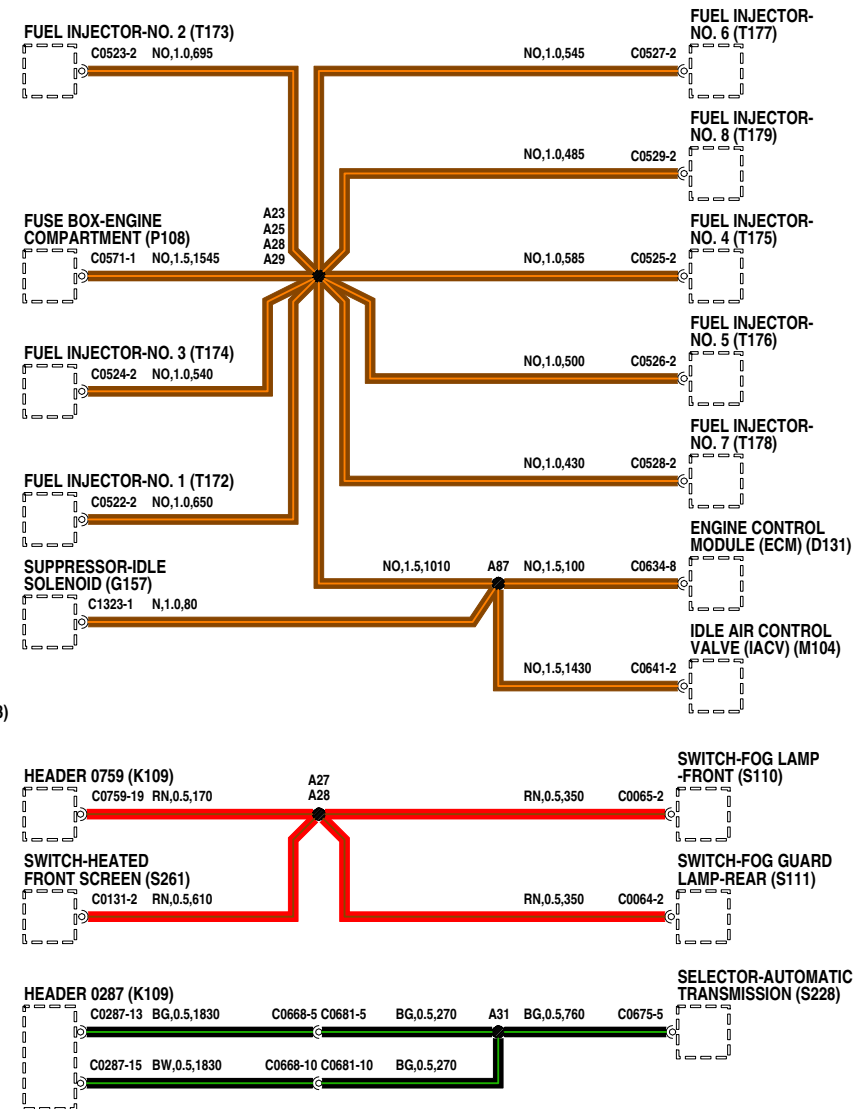
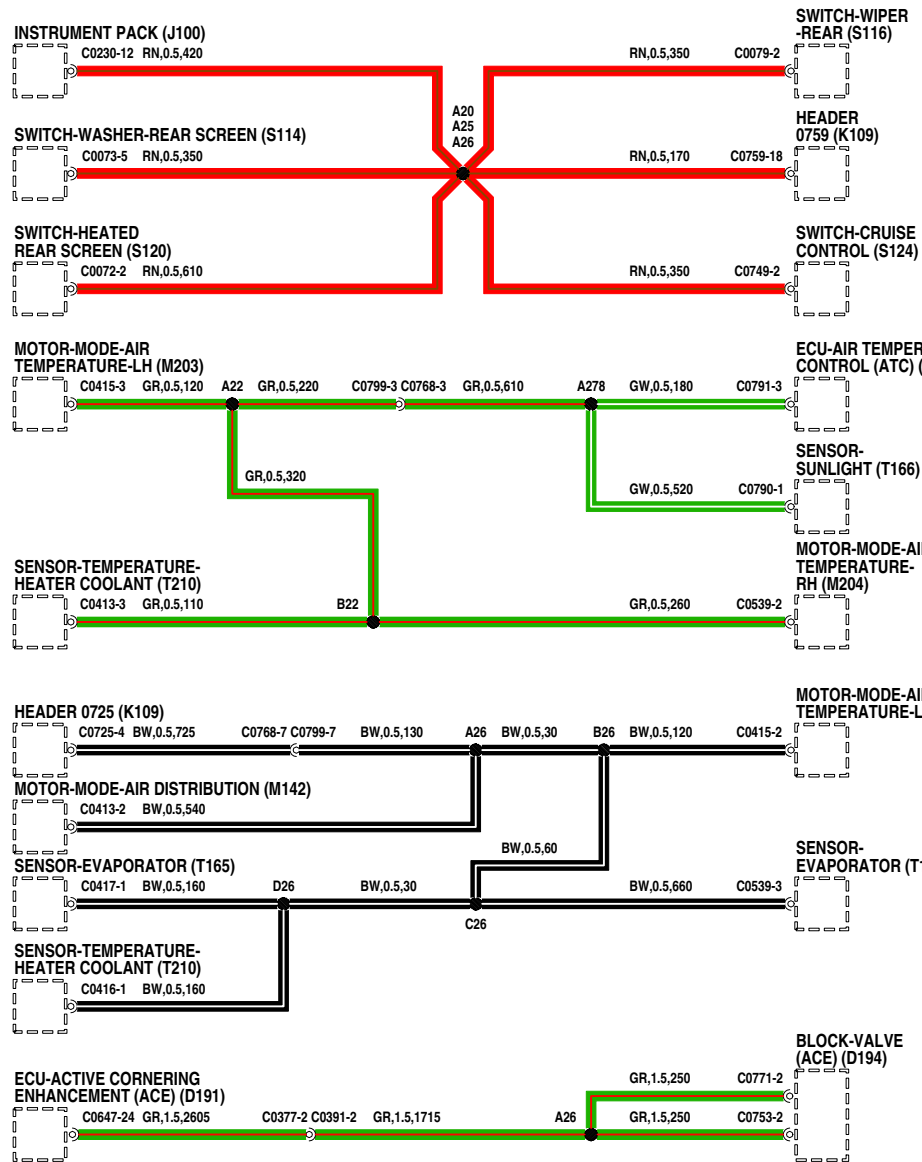


SPLICES AND CENTRE TAPS



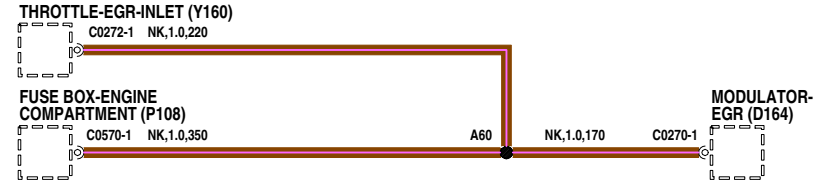
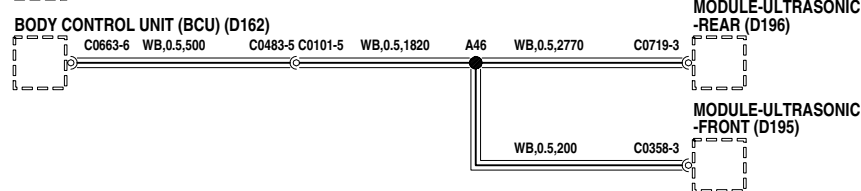
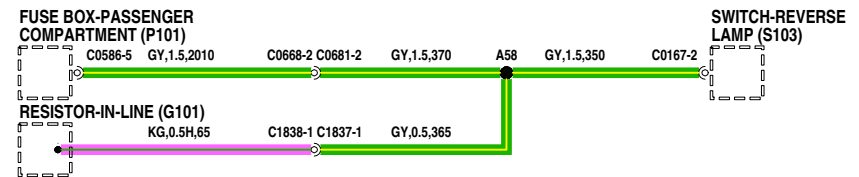
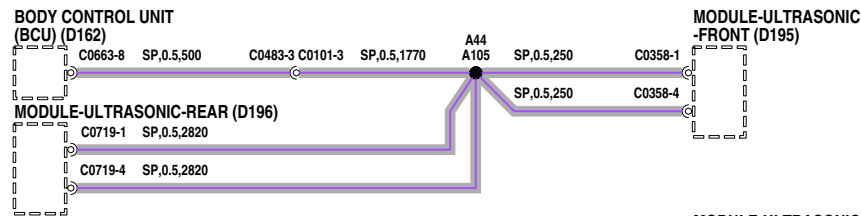
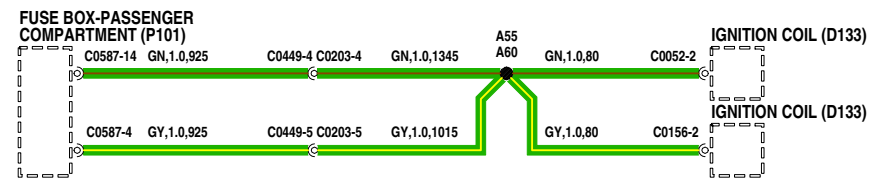
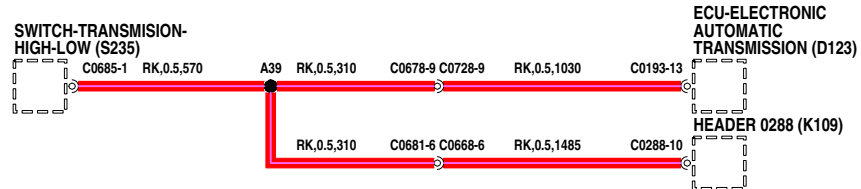
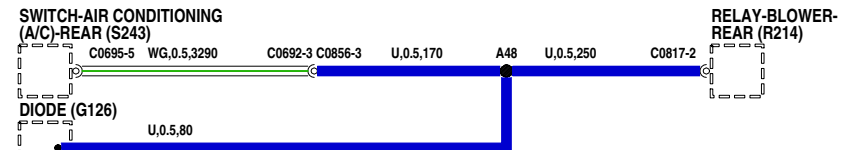
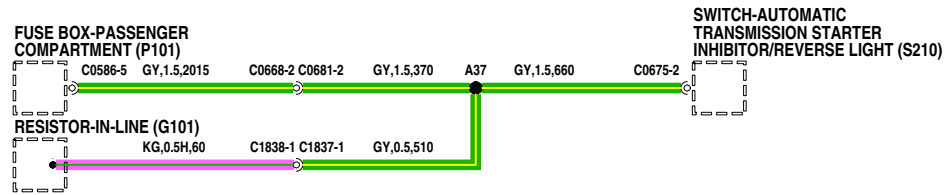
VWR108550-1015

SPLICES AND CENTRE TAPS

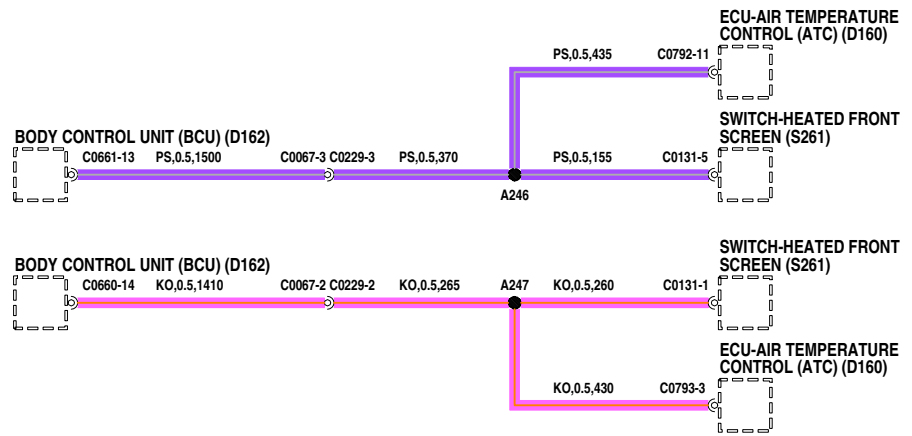
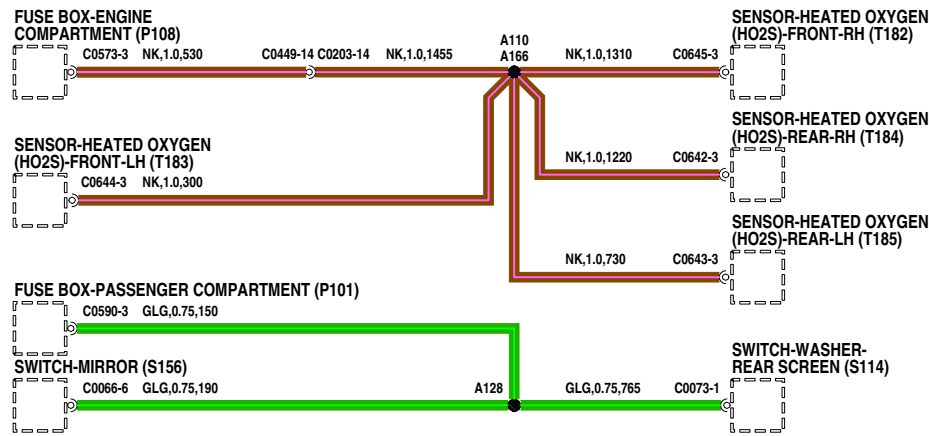
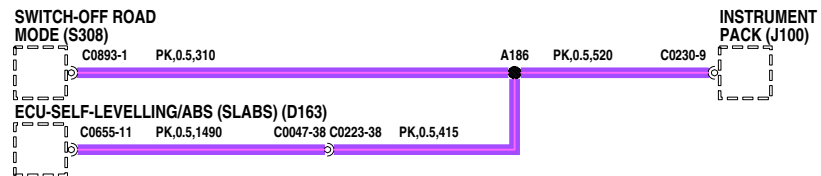
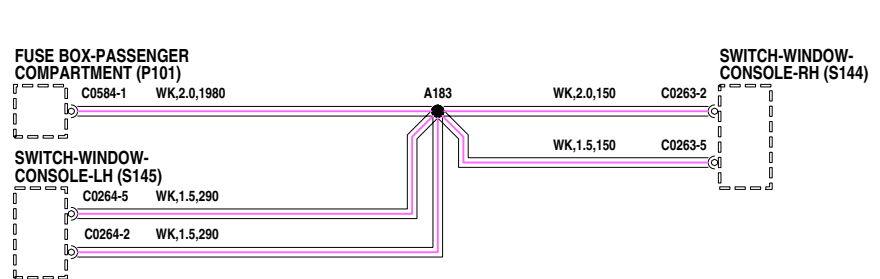
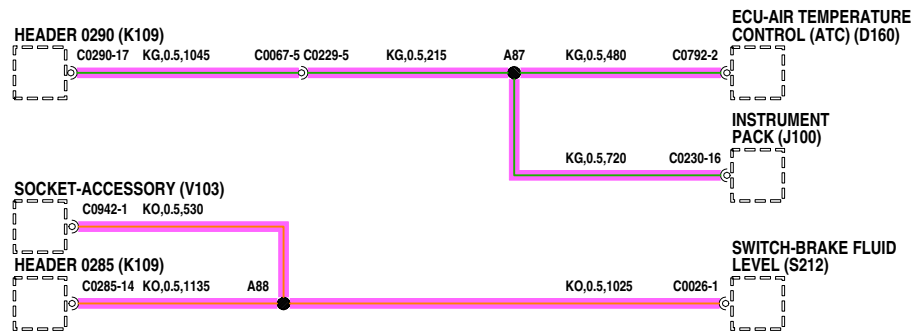
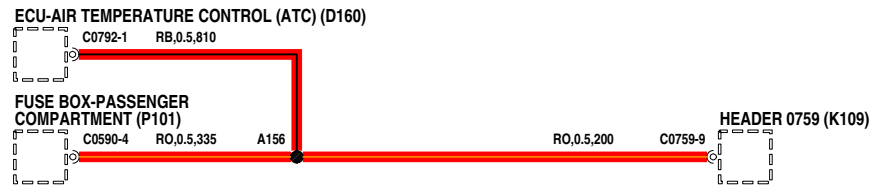
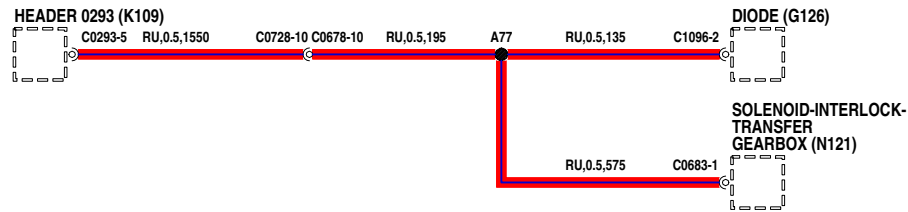


VWR108550-2a05

SPLICES AND CENTRE TAPS

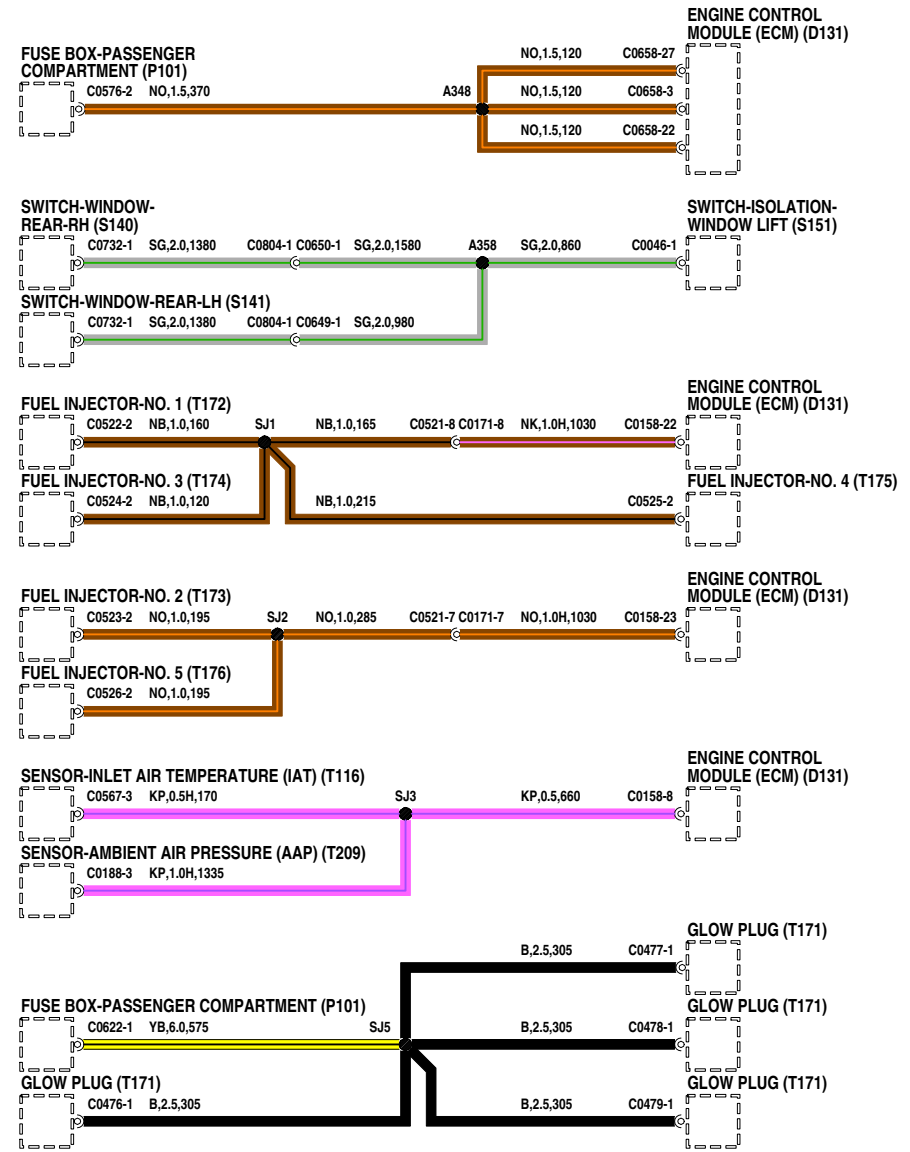
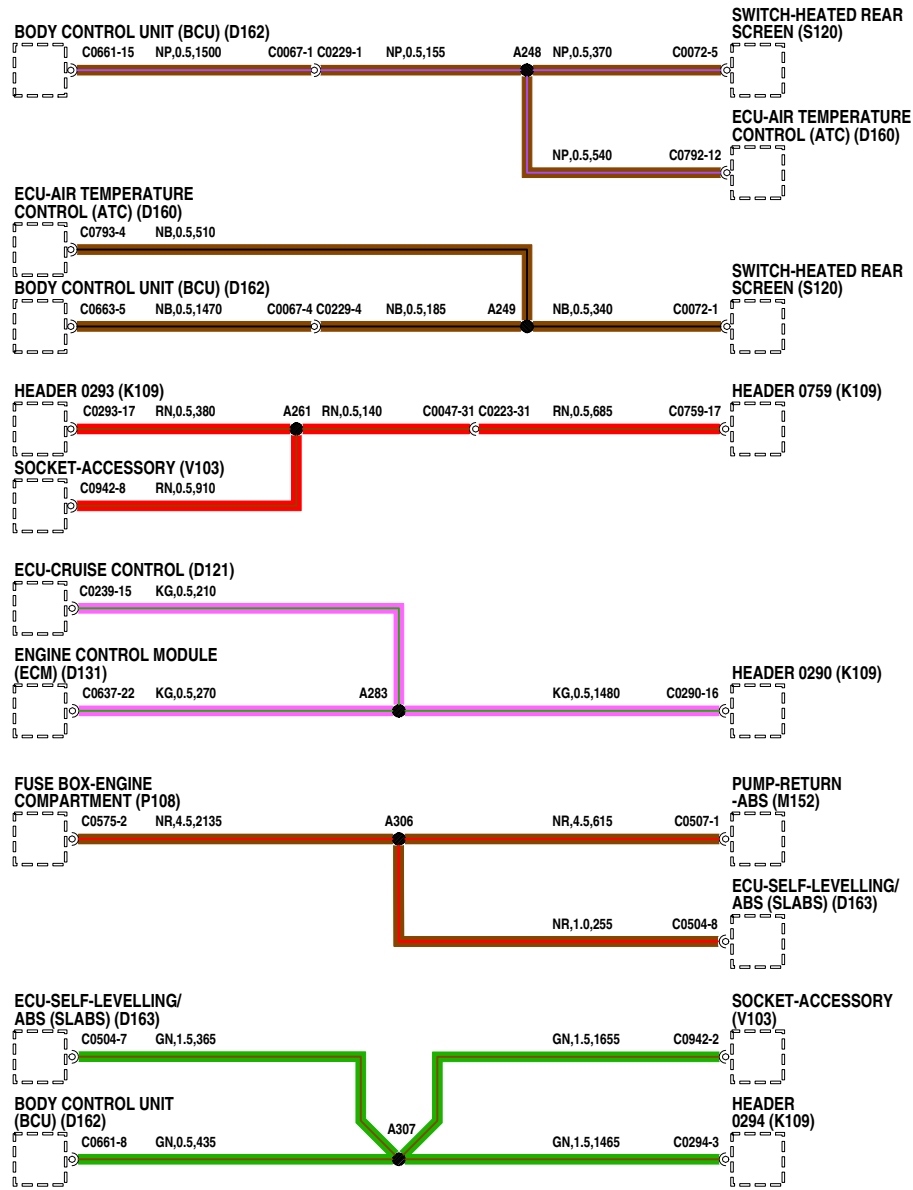


SPLICES AND CENTRE TAPS



VWR108550-4a05

SPLICES AND CENTRE TAPS



VWR108550-5a15