



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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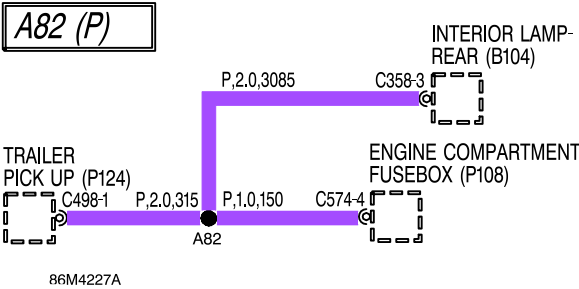
# HOW TO USE THE CIRCUIT DIAGRAMS

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.

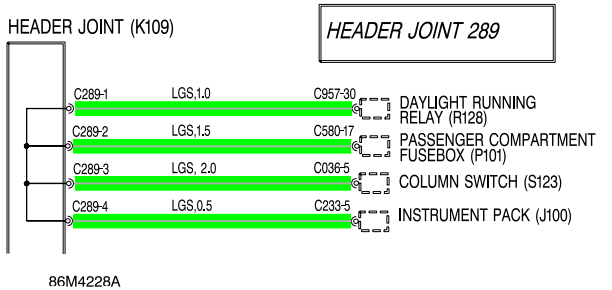
| Code | Description                                    |
|------|--|
| MAB  | Twin core screened wire                        |
| MAH  | Coaxial screened wire                          |
| MAT  | Twin core double sheath                        |
| MCA  | Twisted core screened wire                     |
| 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.

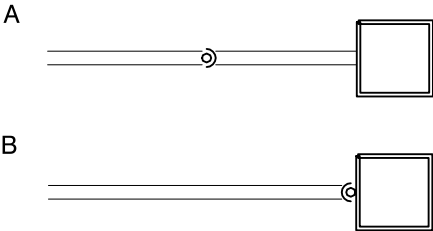
# HOW TO USE THE CIRCUIT DIAGRAMS

## Line Types



86M4229A

This means the wire connects to another circuit.



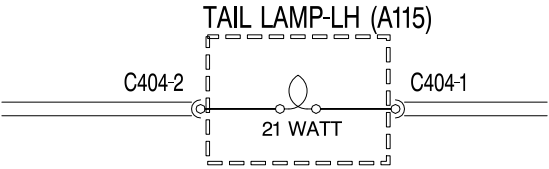
86M4230A

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.

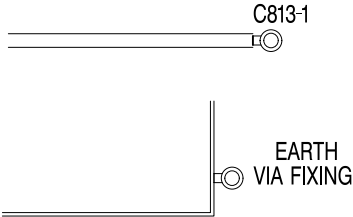
## Components



86M4231A

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

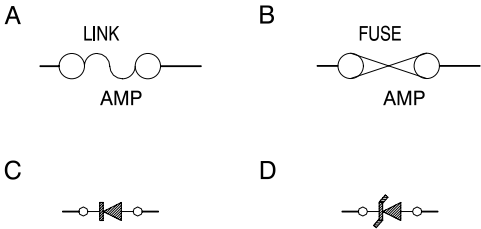
## Earth points



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



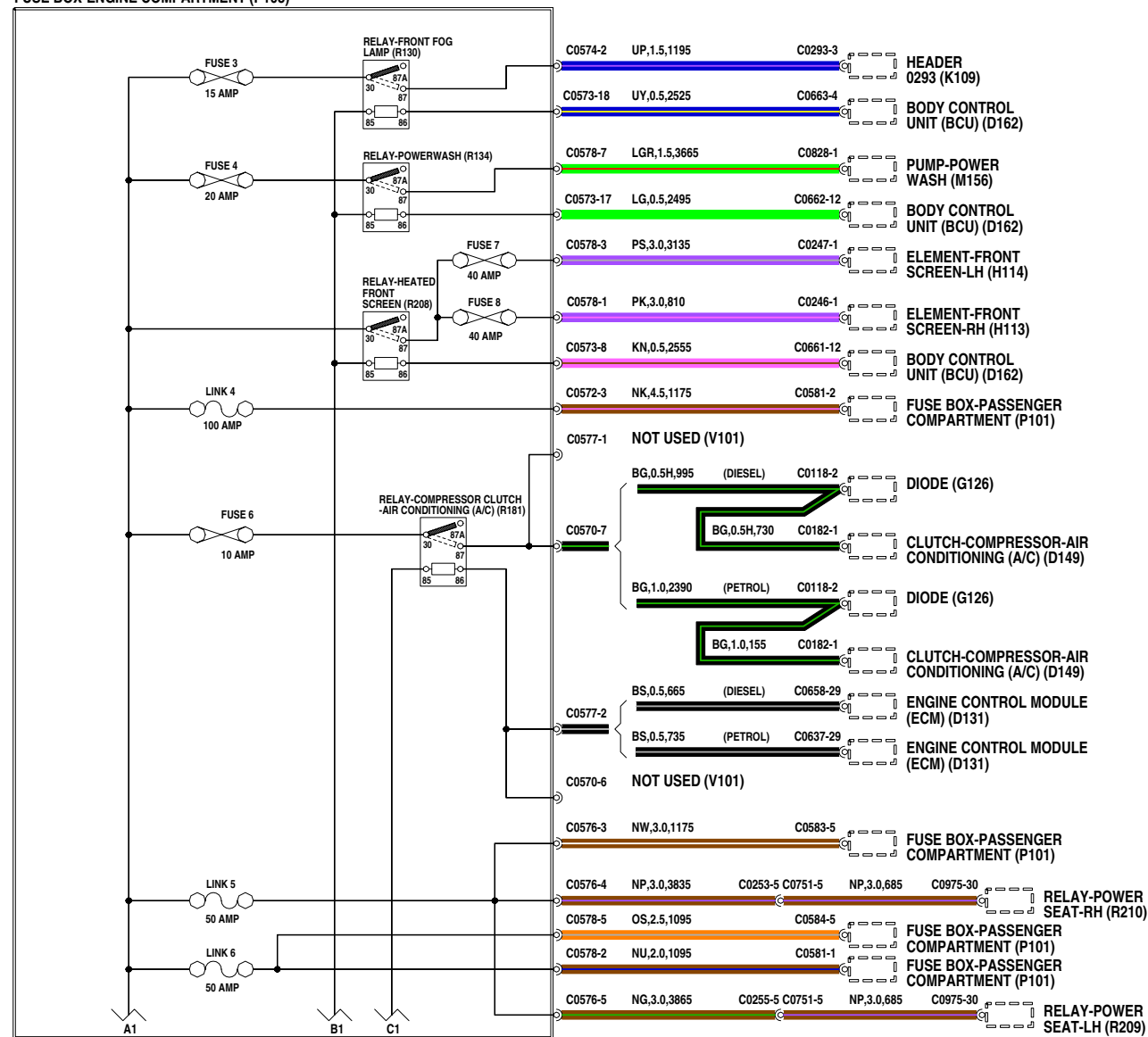
86M4234A

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.

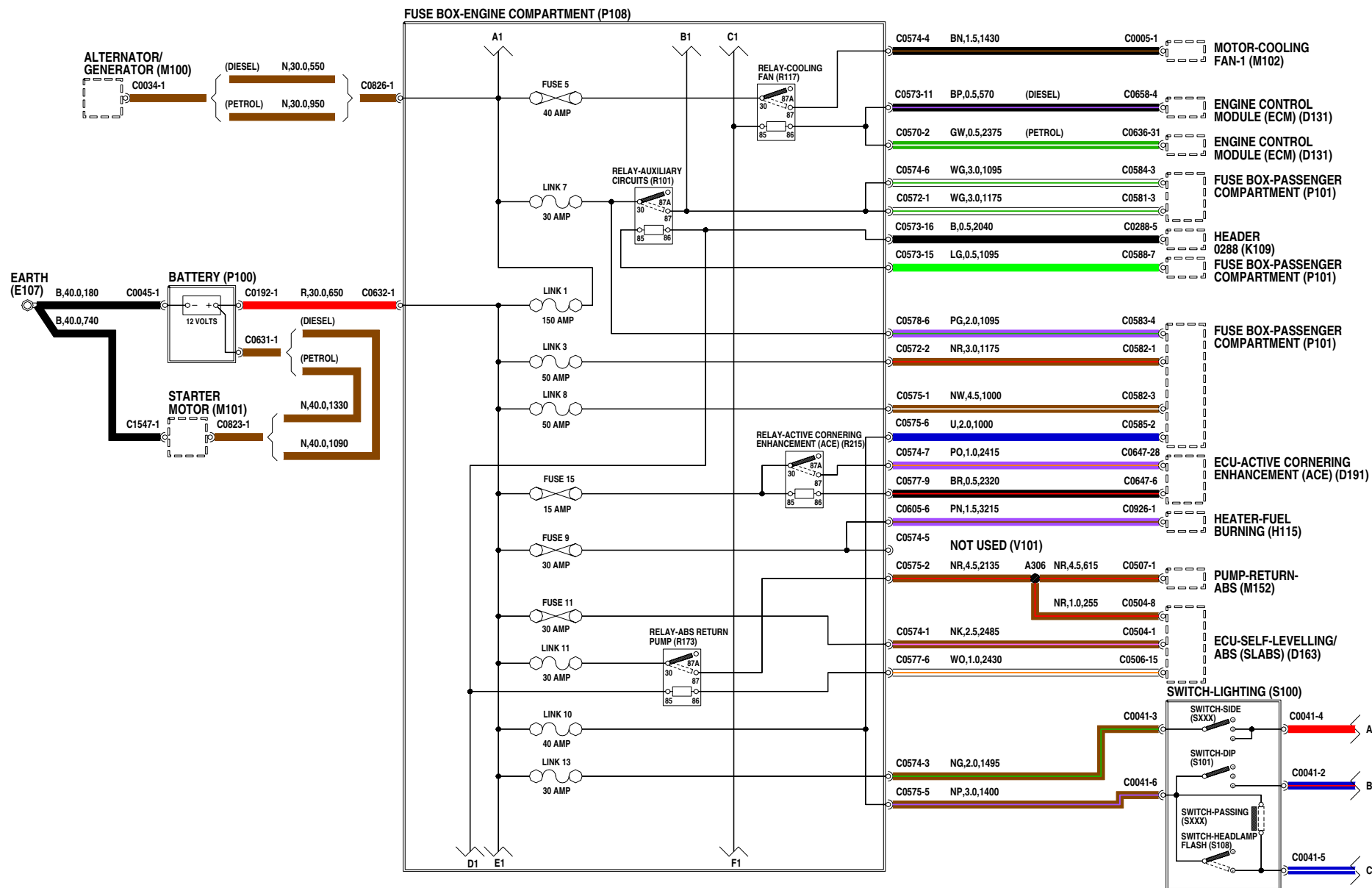
# POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX

FUSE BOX-ENGINE COMPARTMENT (P108)



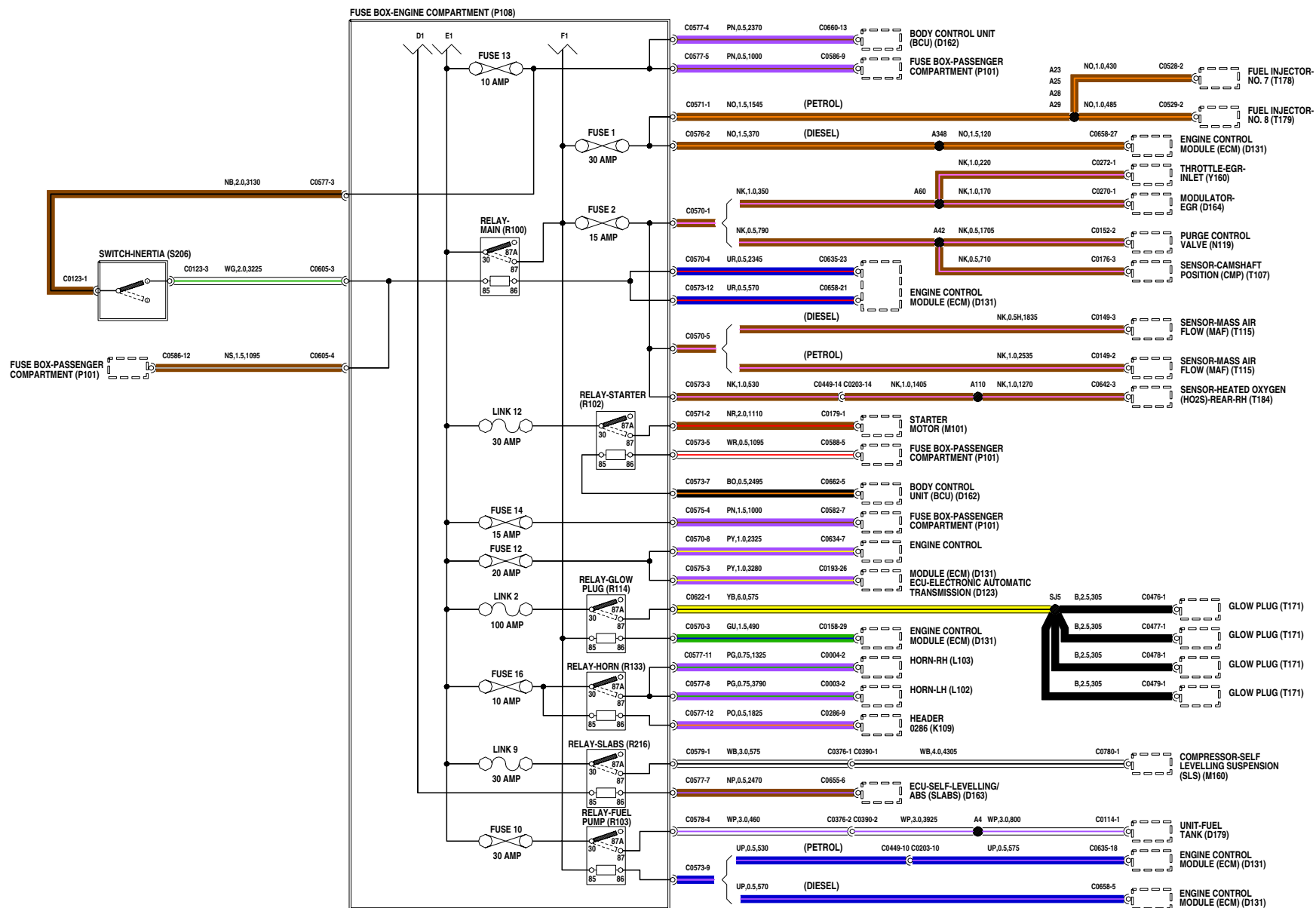
VWR108520-1-06

# POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX



VWR108520-2of6

# POWER DISTRIBUTION ENGINE COMPARTMENT FUSEBOX

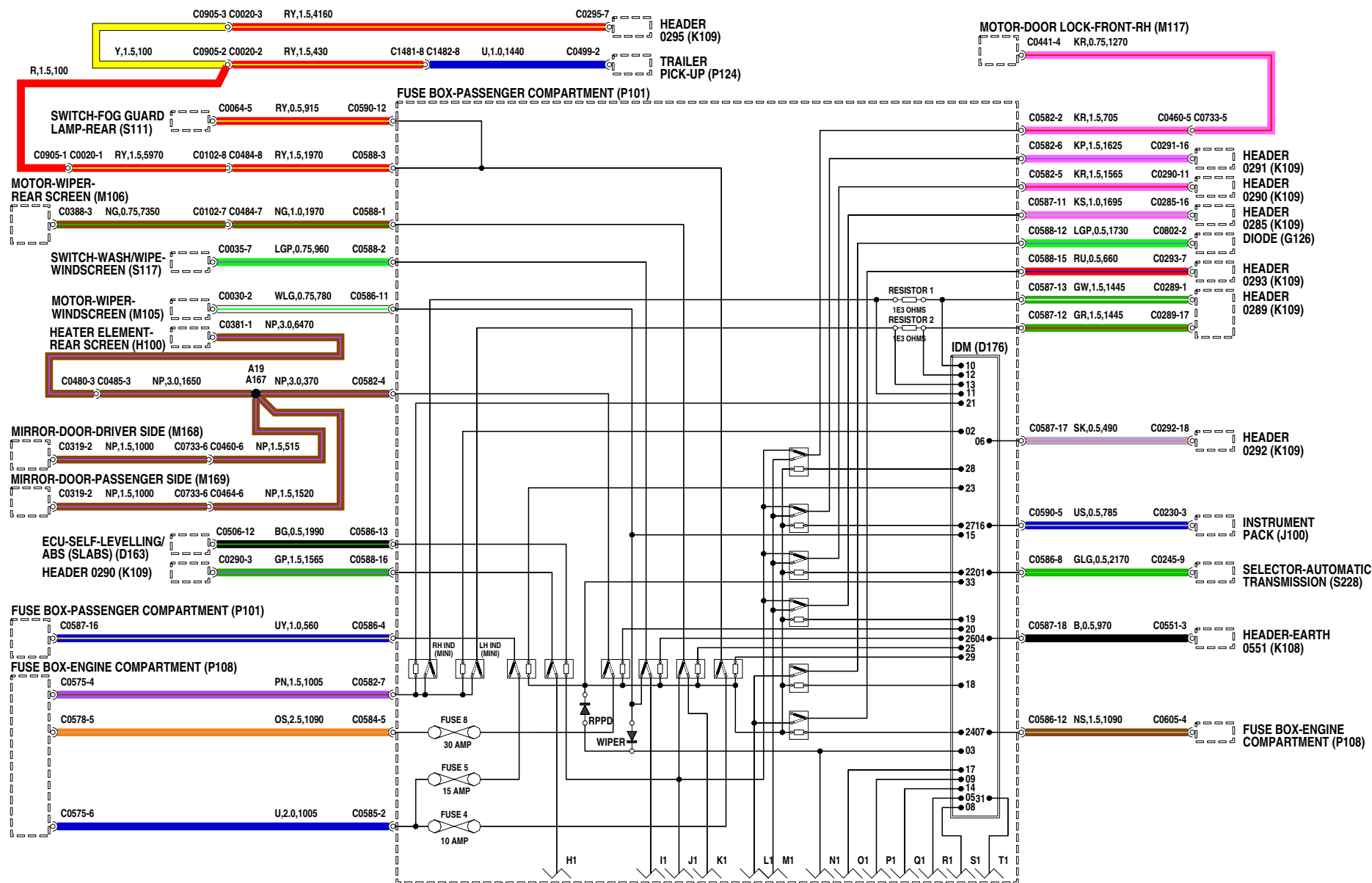


VWR108520-3of6





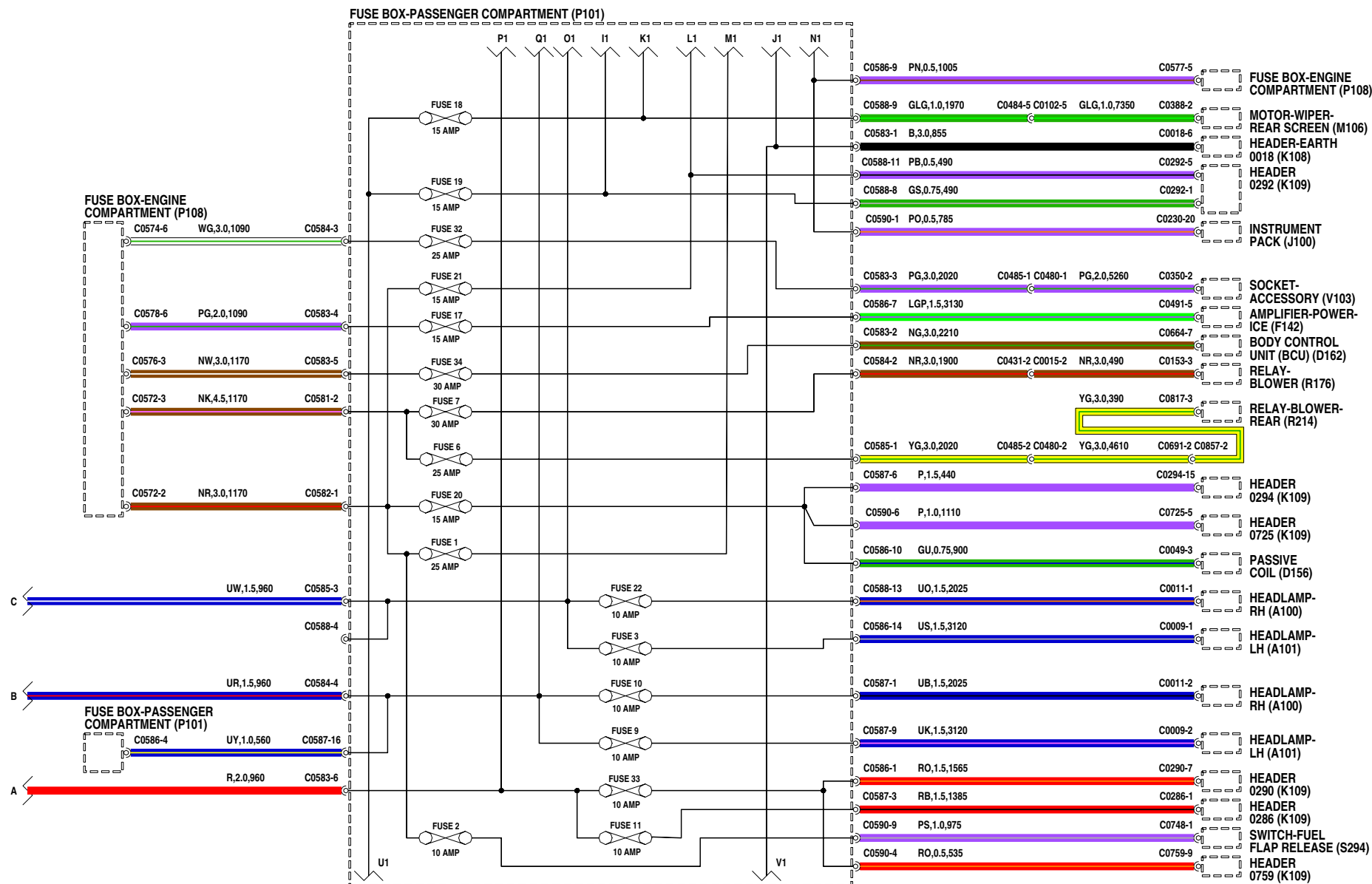
# POWER DISTRIBUTION PASSENGER COMPARTMENT FUSEBOX



VWR108520-406

# POWER DISTRIBUTION

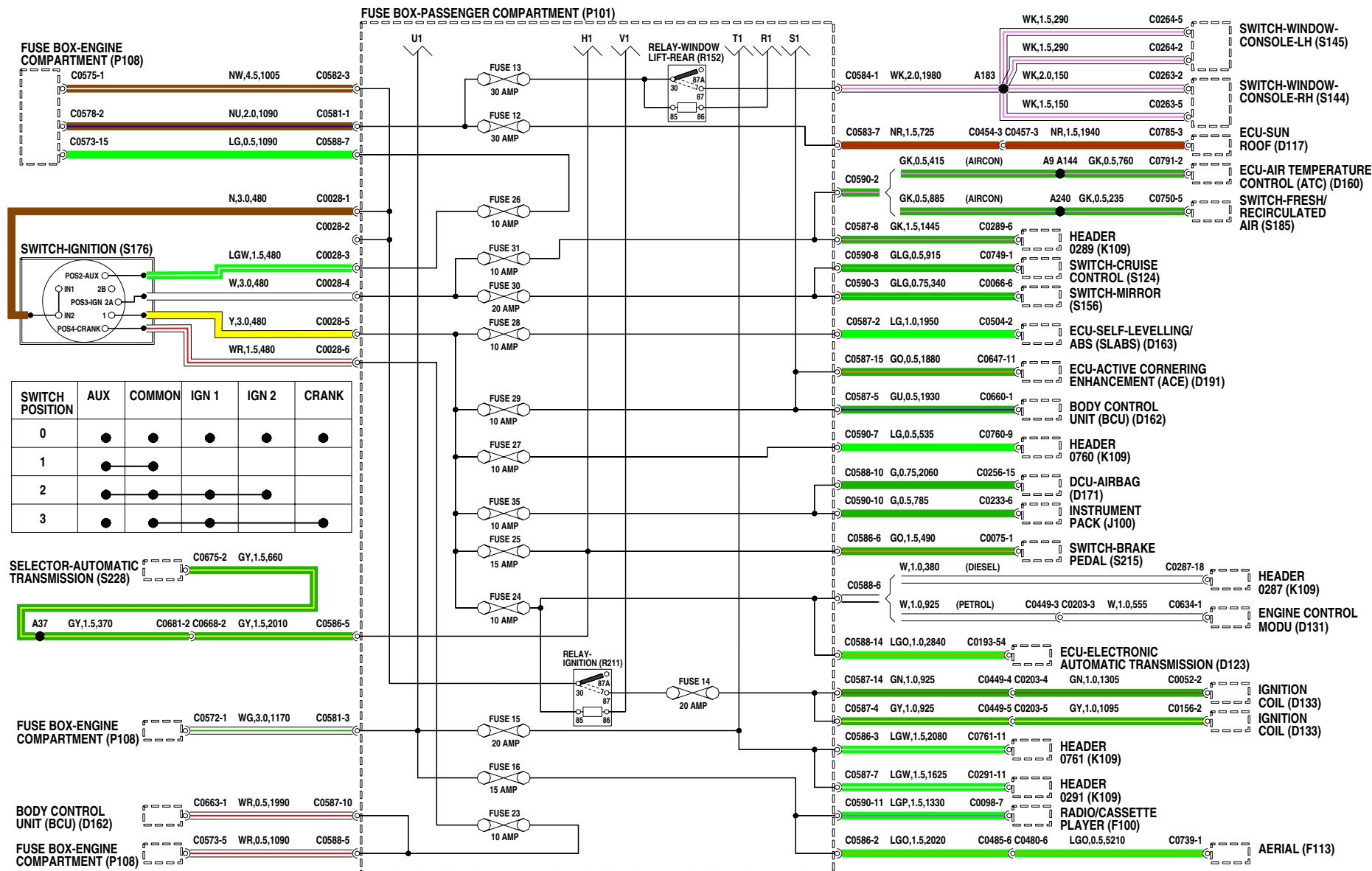
## PASSENGER COMPARTMENT FUSEBOX



VWR108520-5016

# POWER DISTRIBUTION

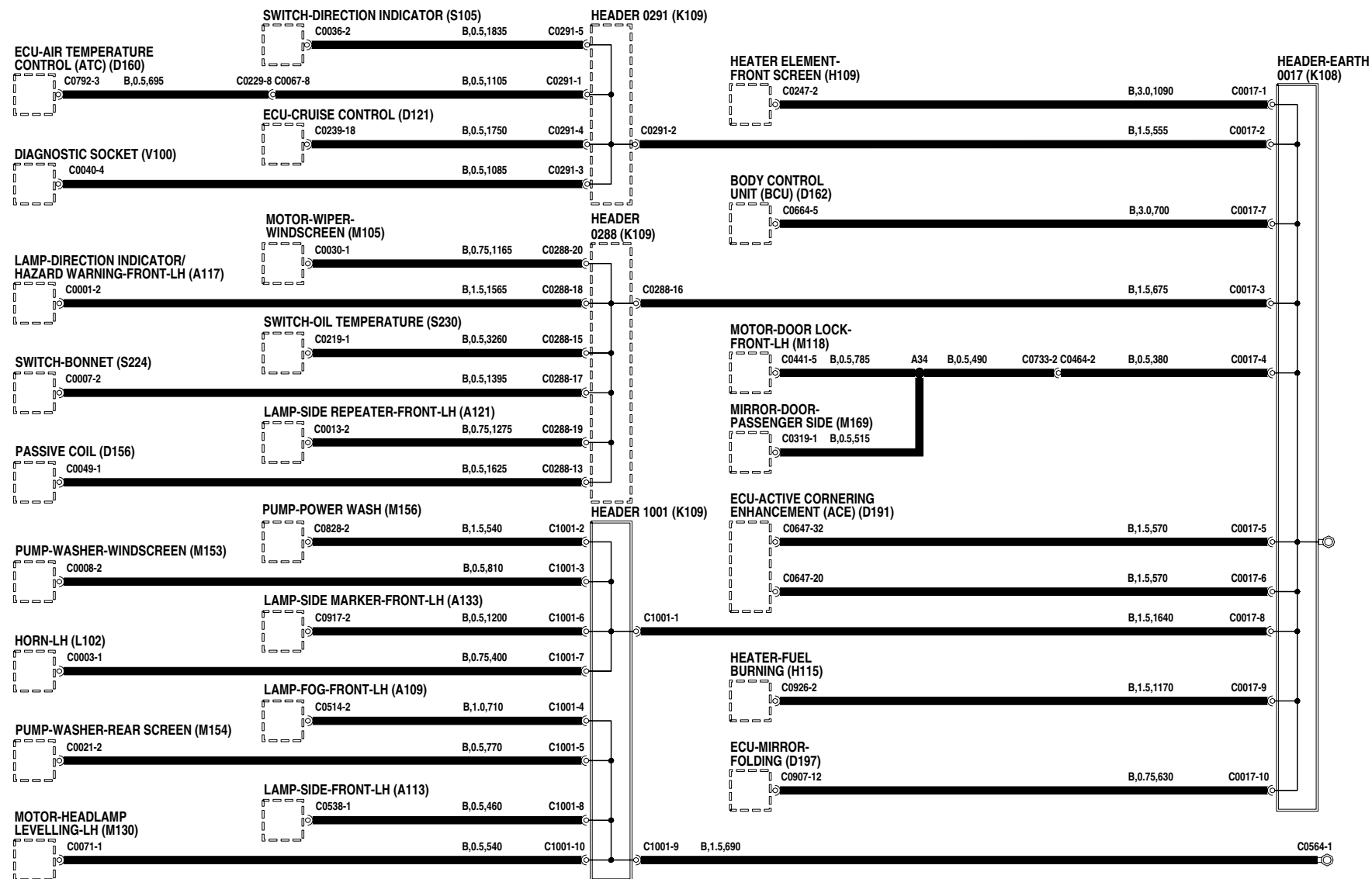
## PASSENGER COMPARTMENT FUSEBOX



VWR108520-606

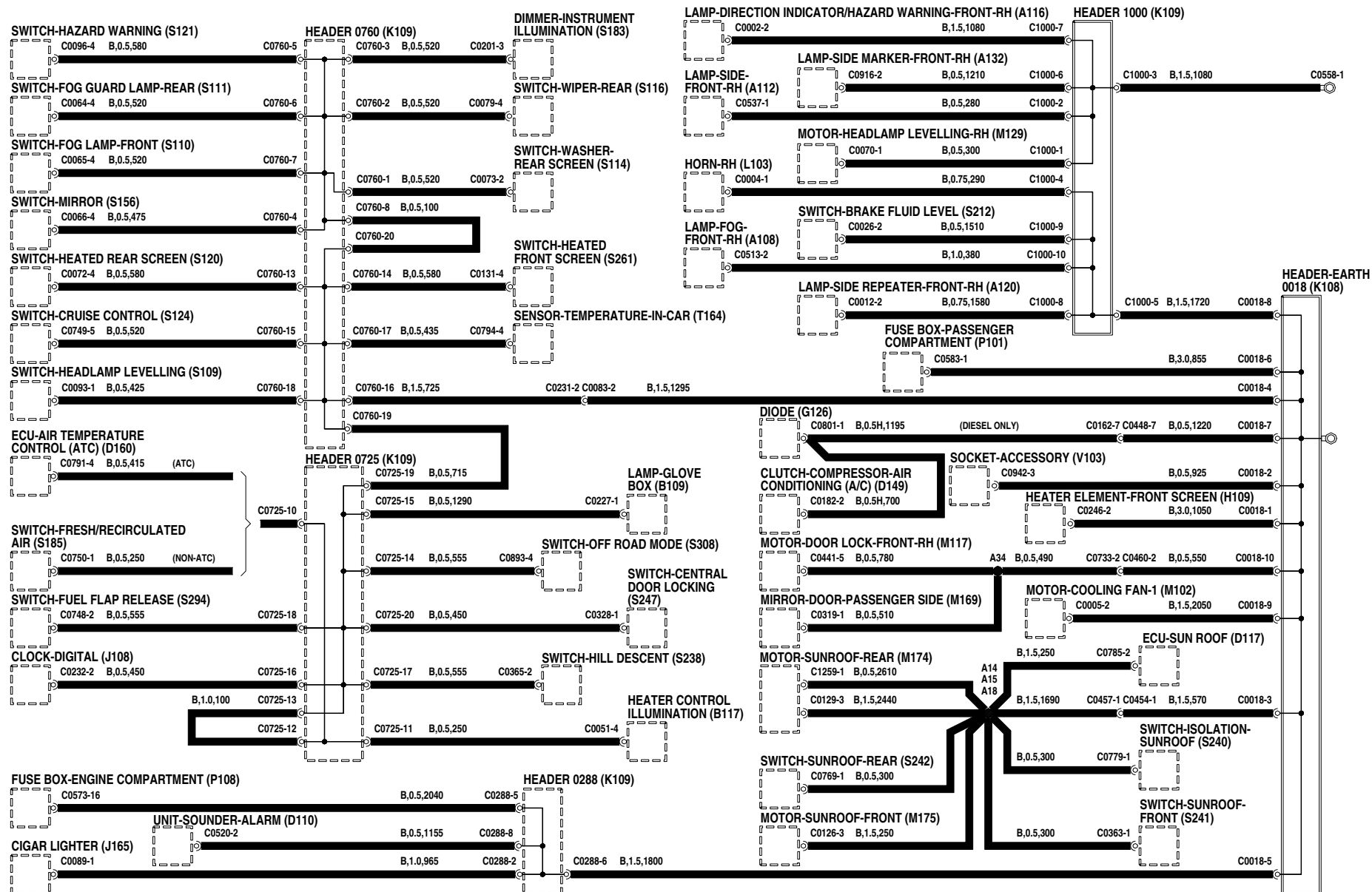


# EARTH DISTRIBUTION



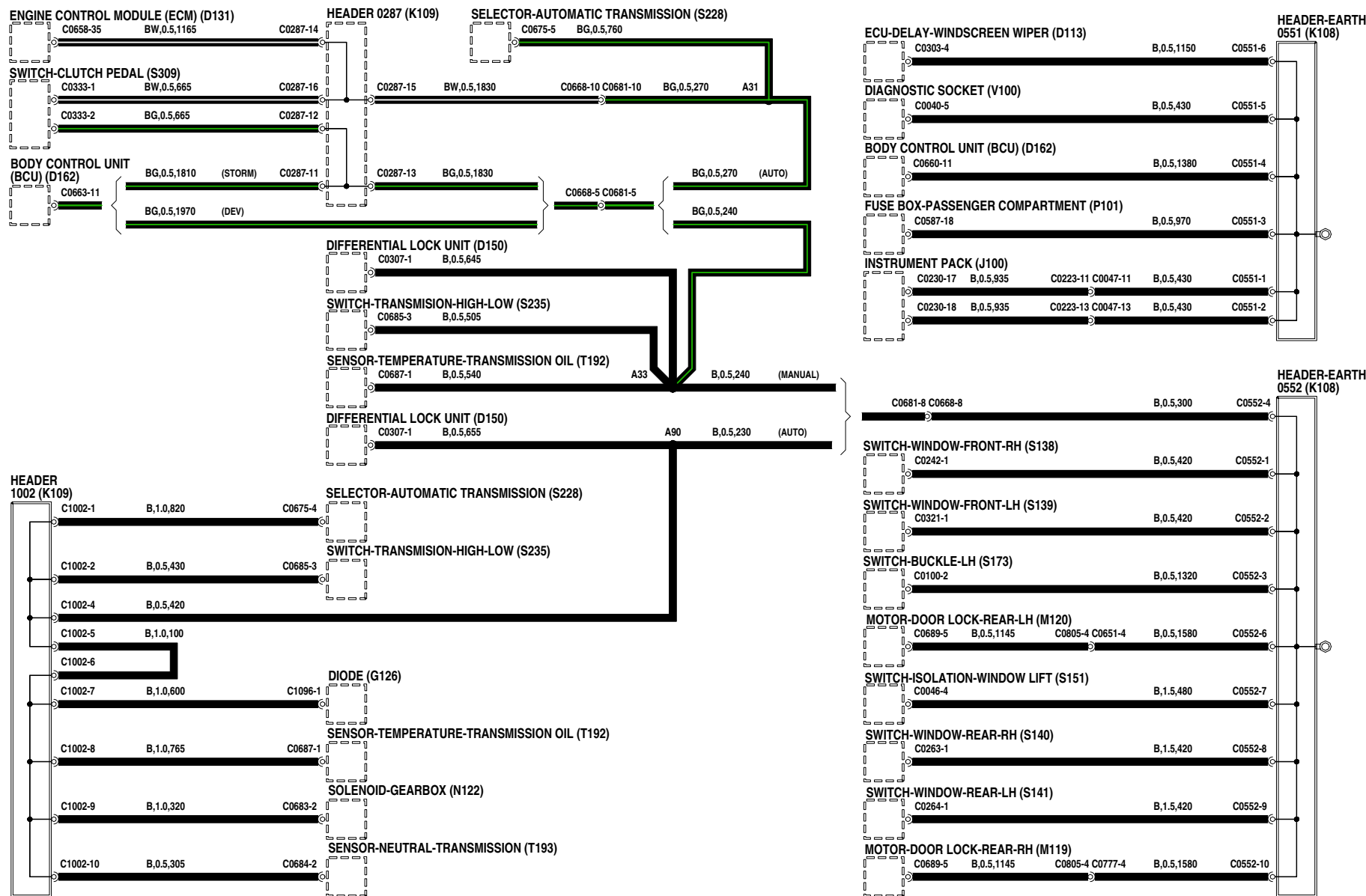
VWR108280-1d7

# EARTH DISTRIBUTION



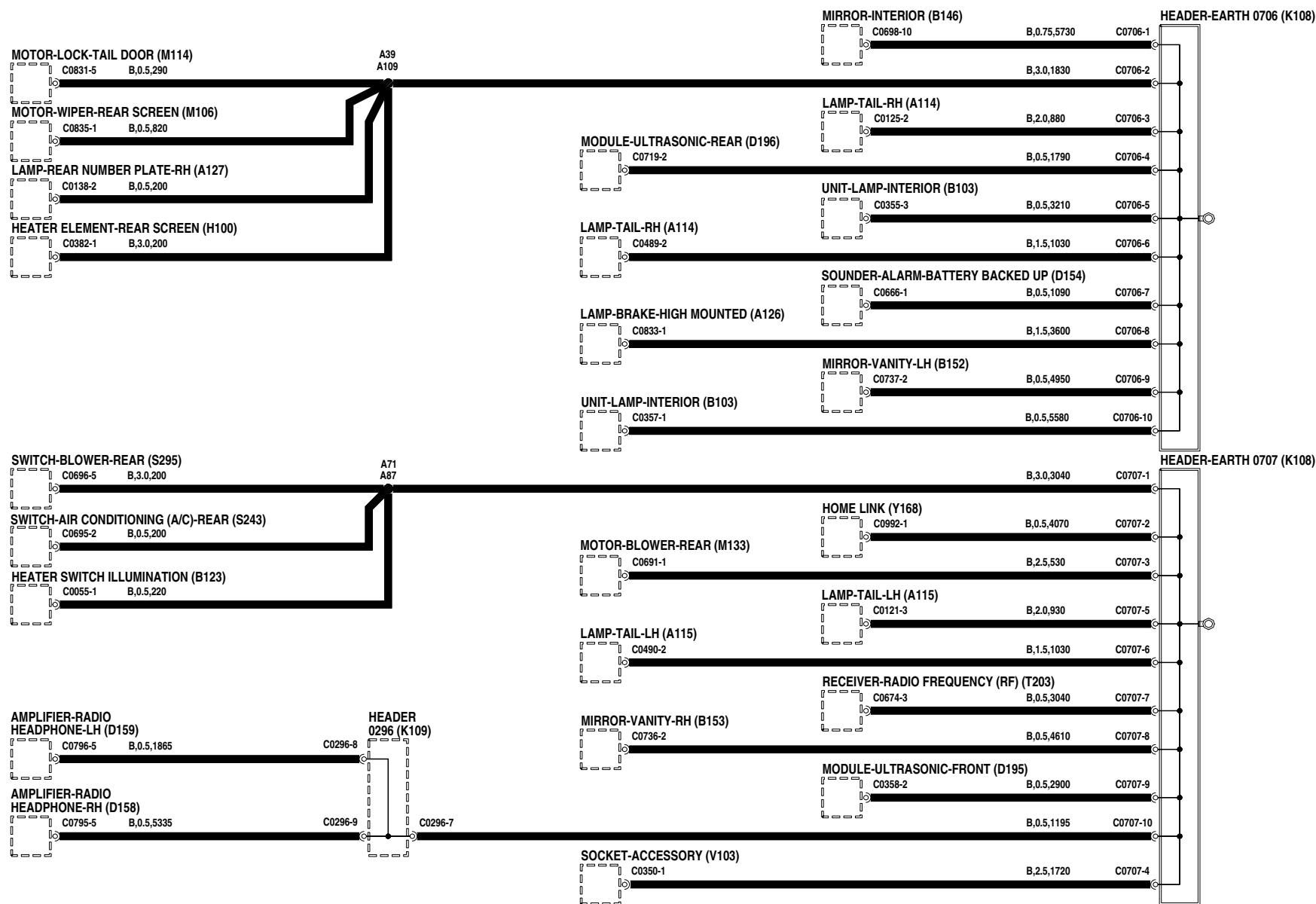
VWR108280-2a17

# EARTH DISTRIBUTION



VWR108280-3a7

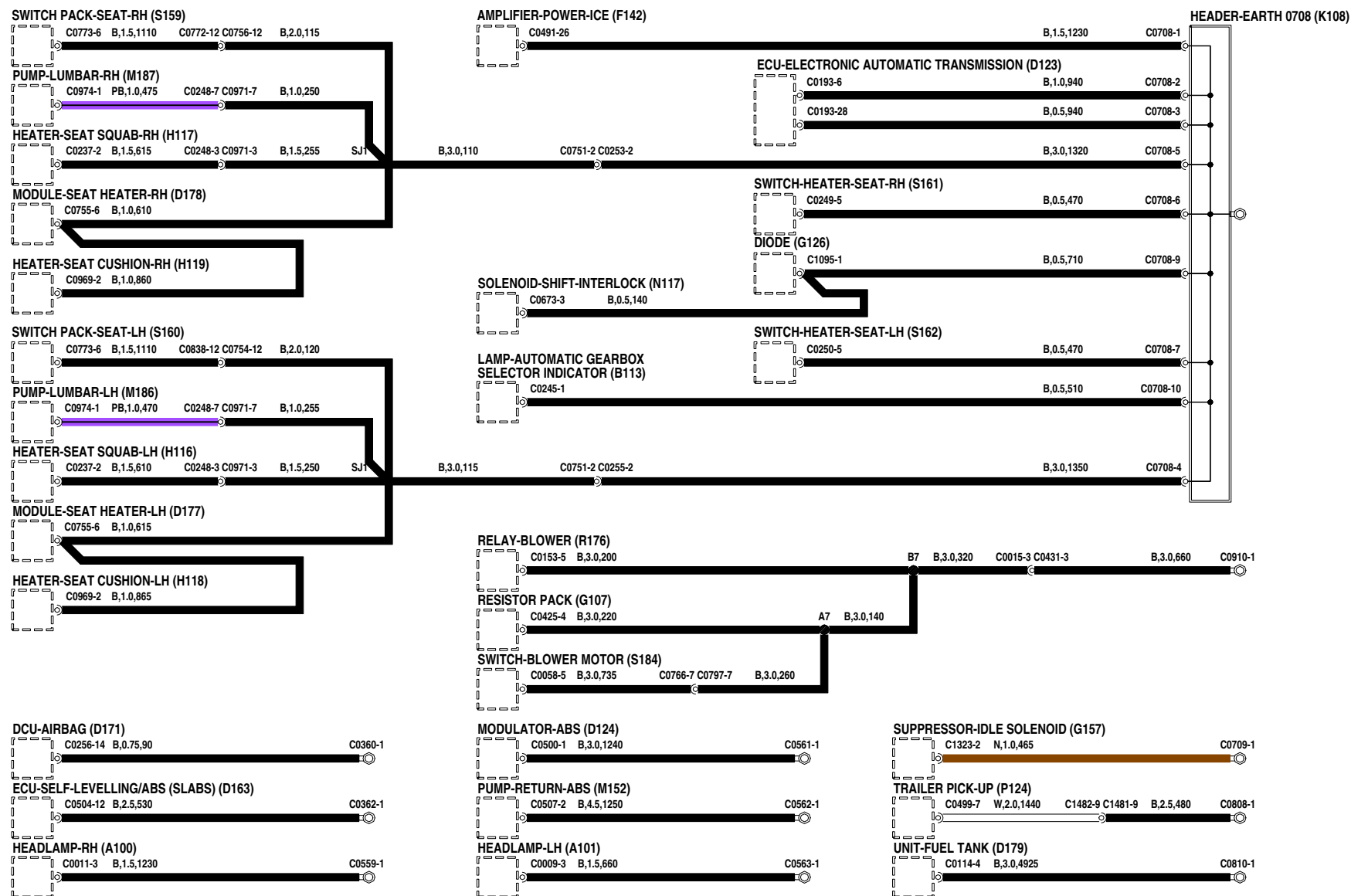
# EARTH DISTRIBUTION



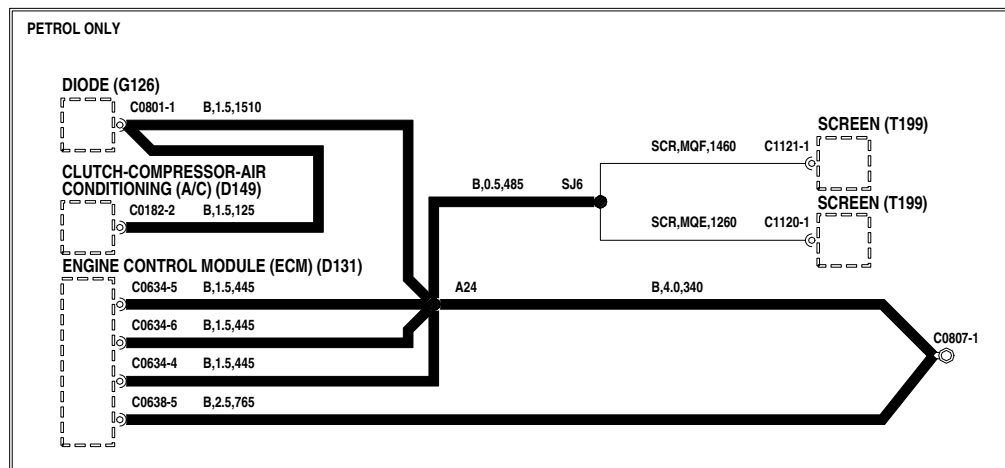
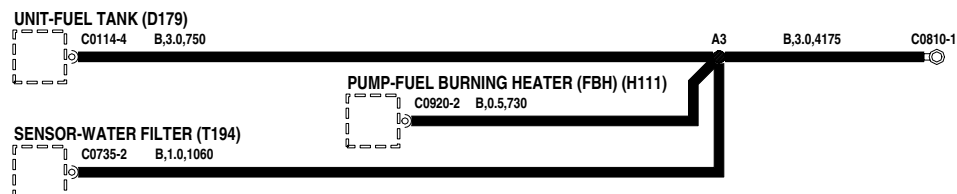
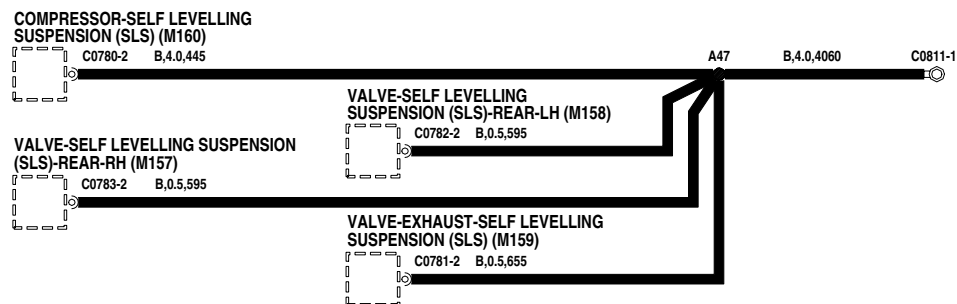
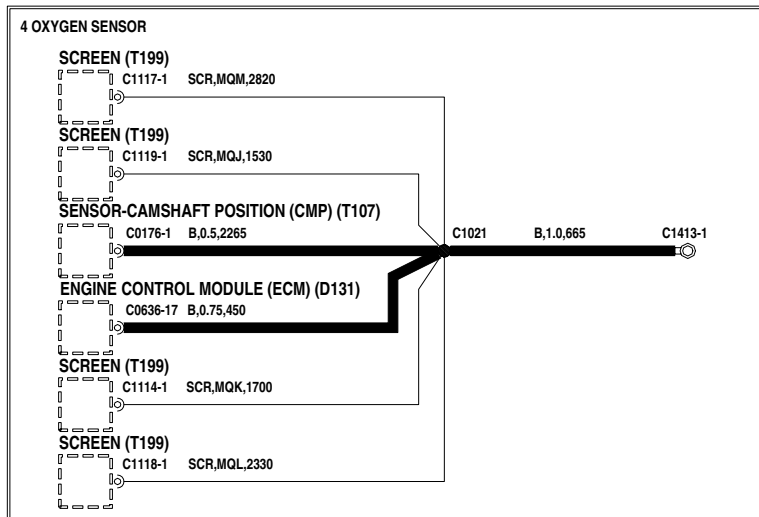
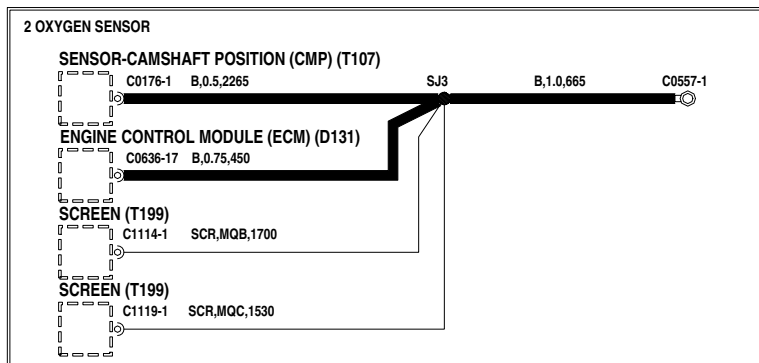
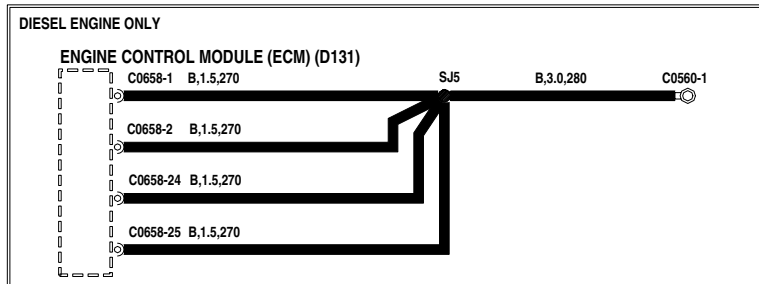
VWR108280-5d7



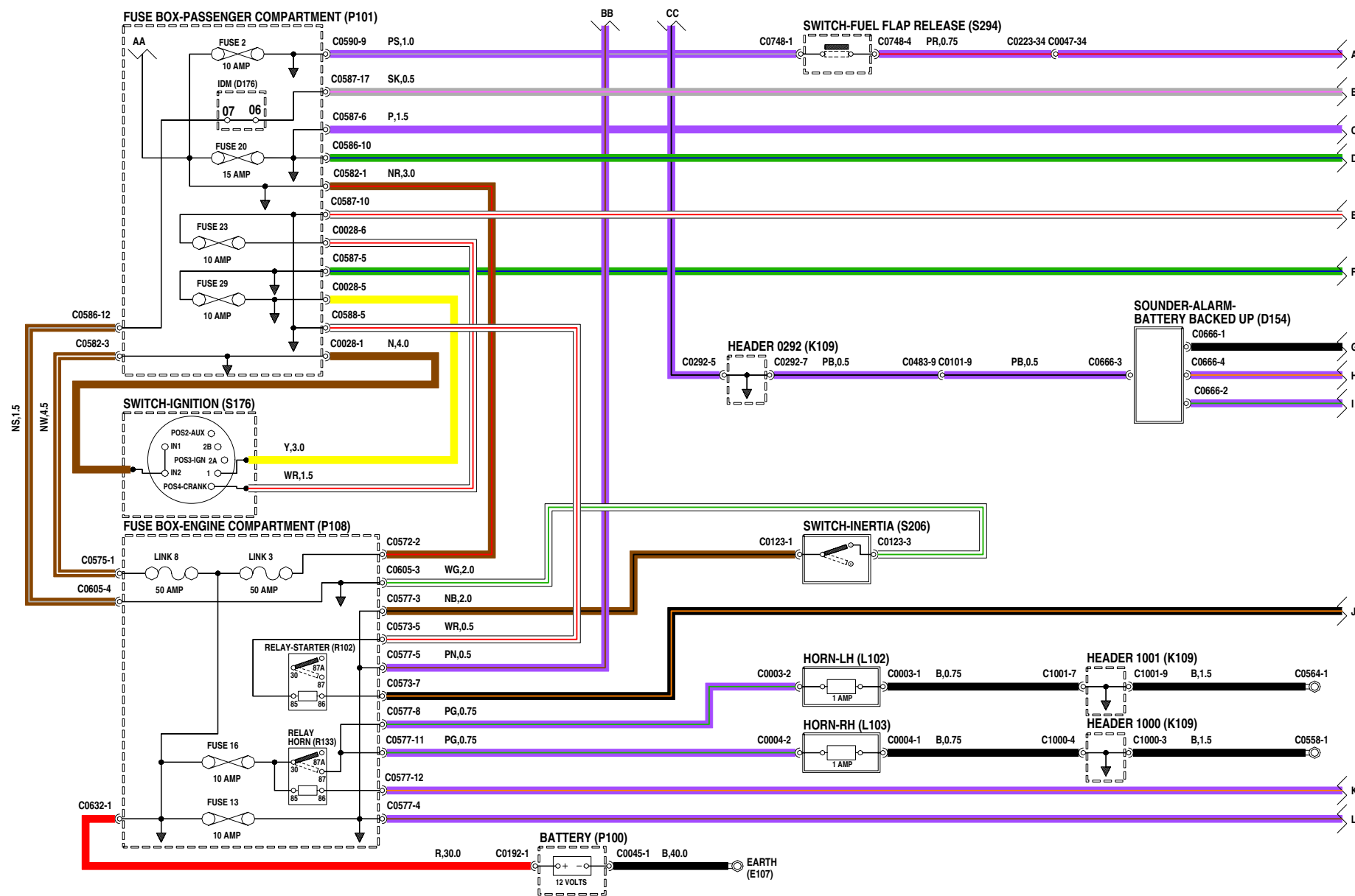
# EARTH DISTRIBUTION



# EARTH DISTRIBUTION

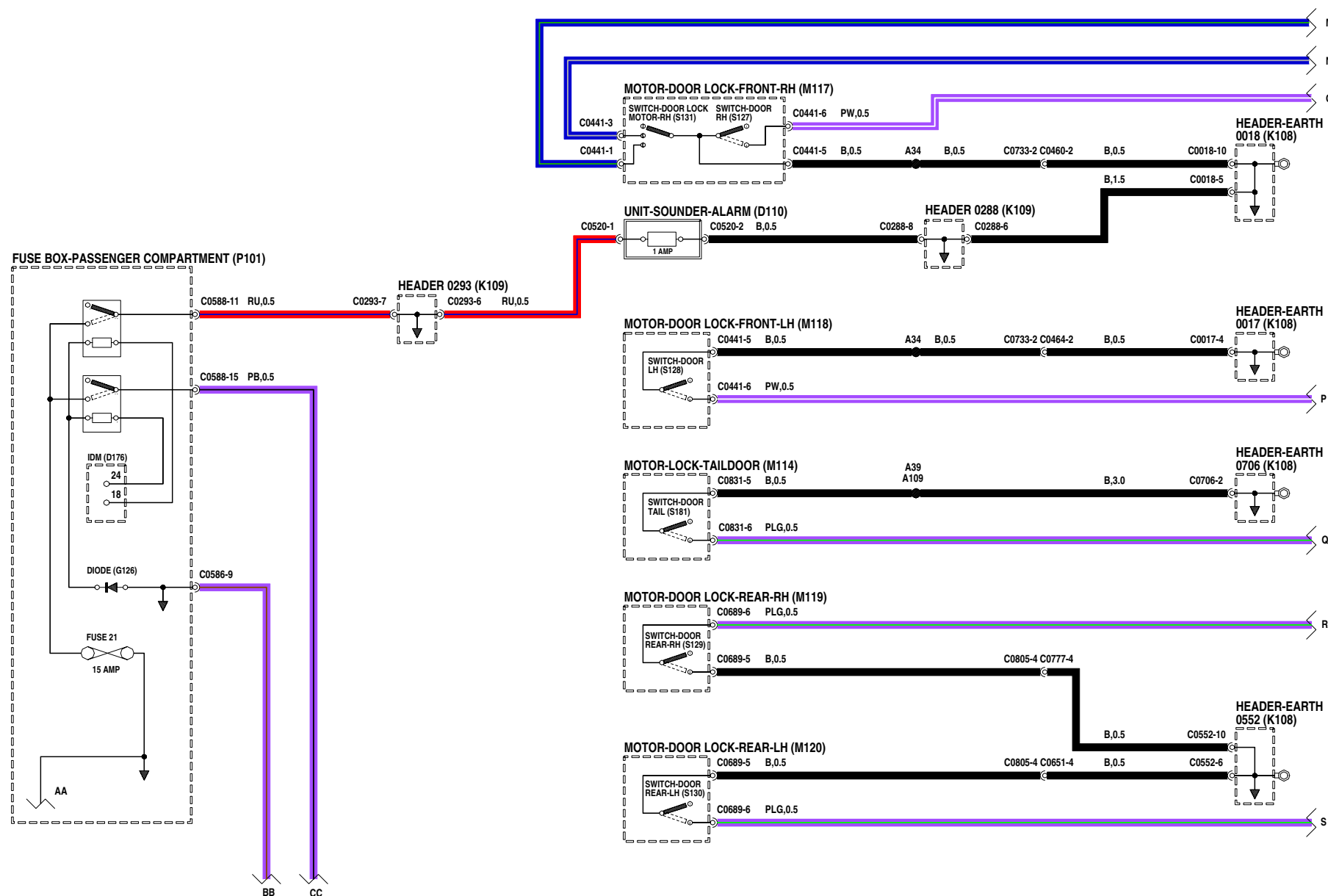


# ANTI-THEFT ALARM



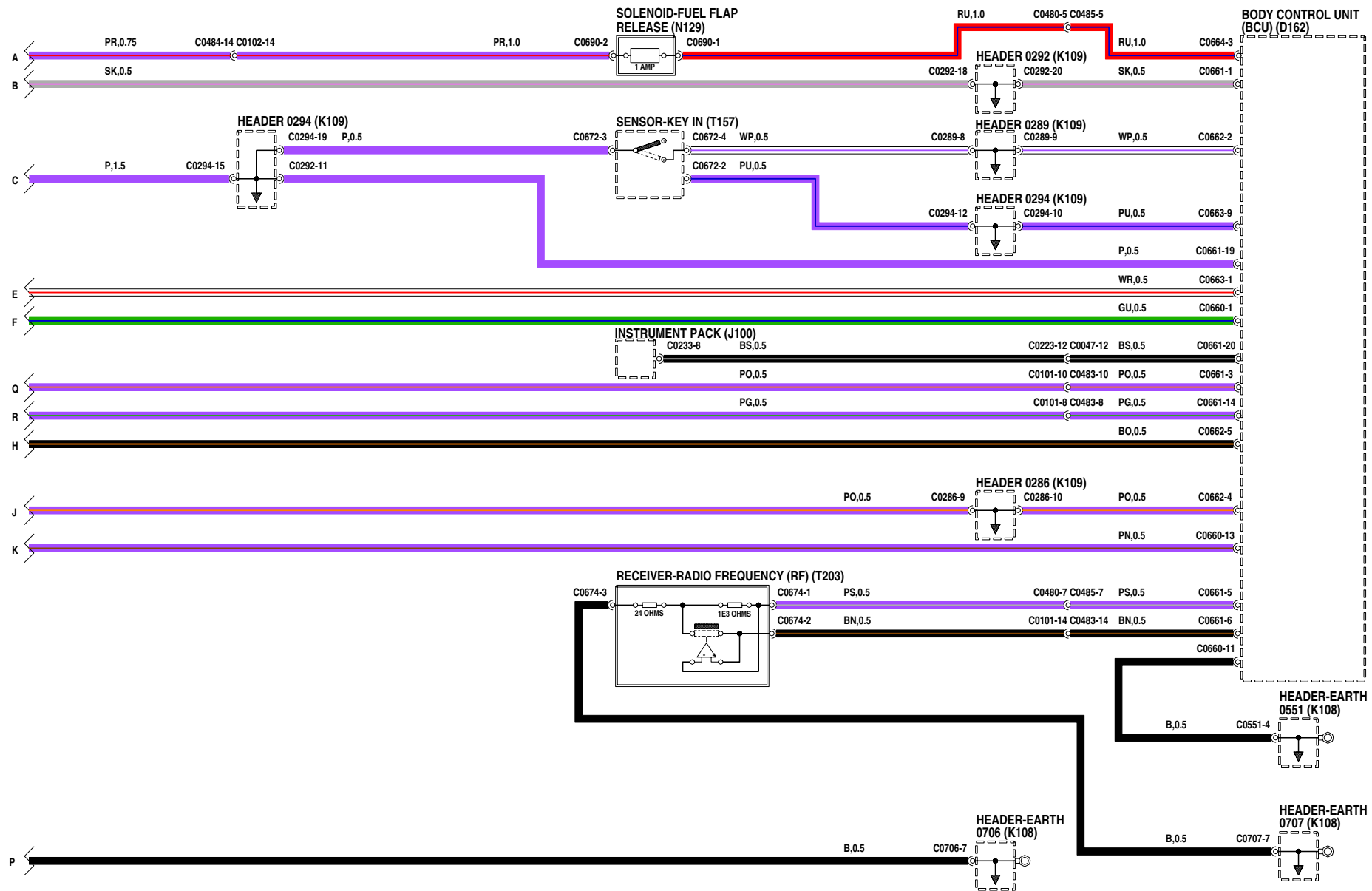
VWR108140-1of4

# ANTI-THEFT ALARM



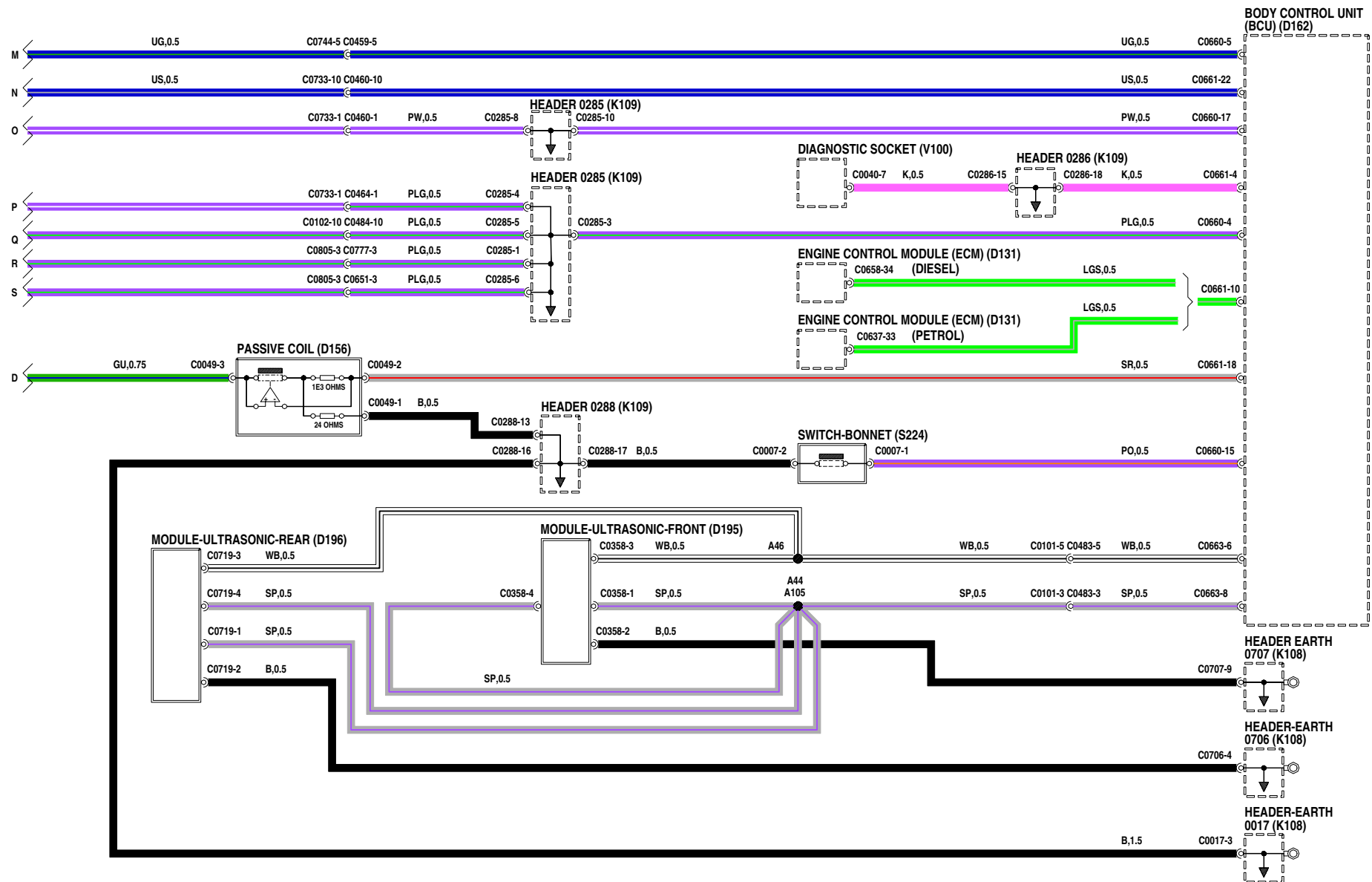
VWR108140-2x04

# ANTI-THEFT ALARM



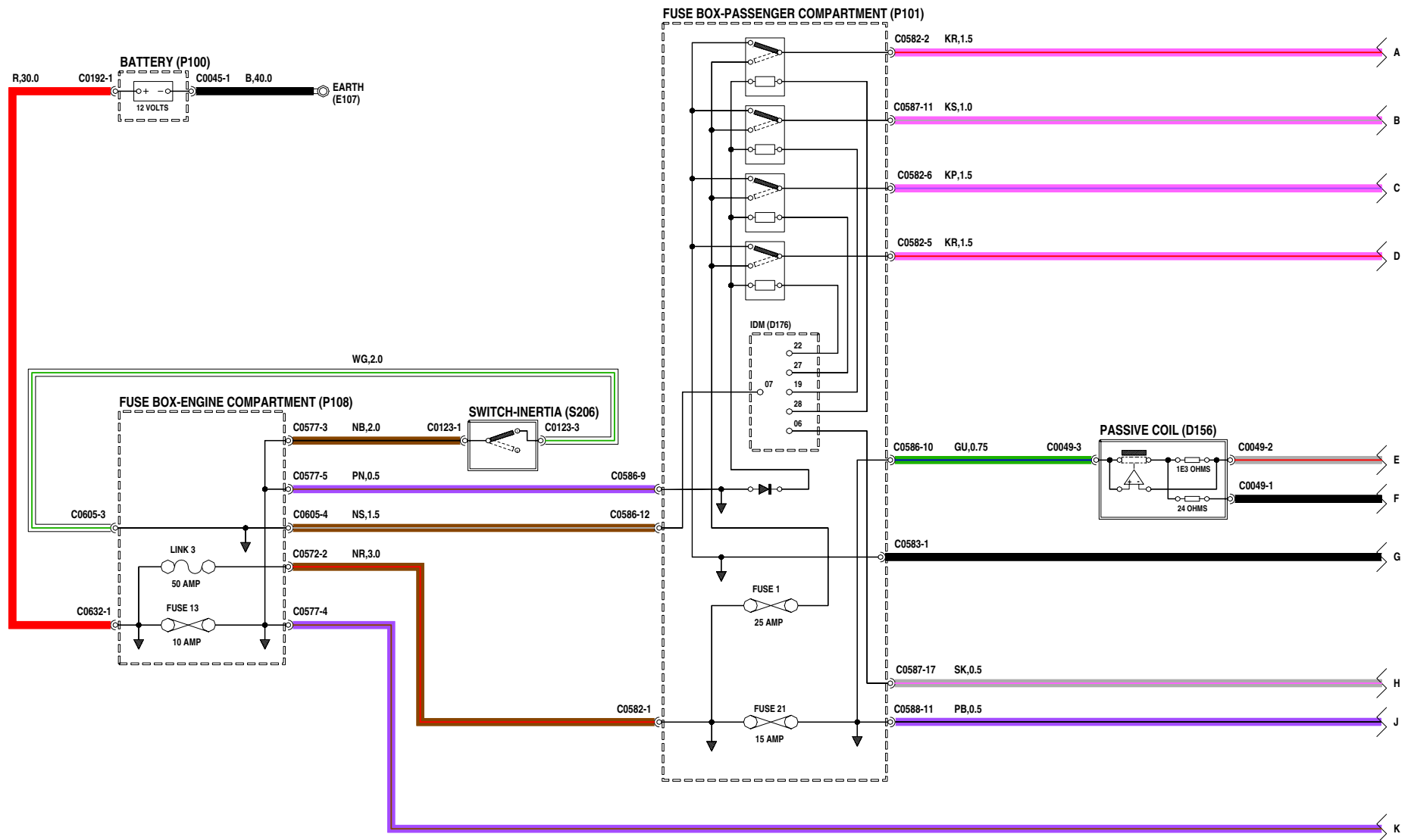
VWR108140-3a/4

# ANTI-THEFT ALARM



VWR108140-4x4

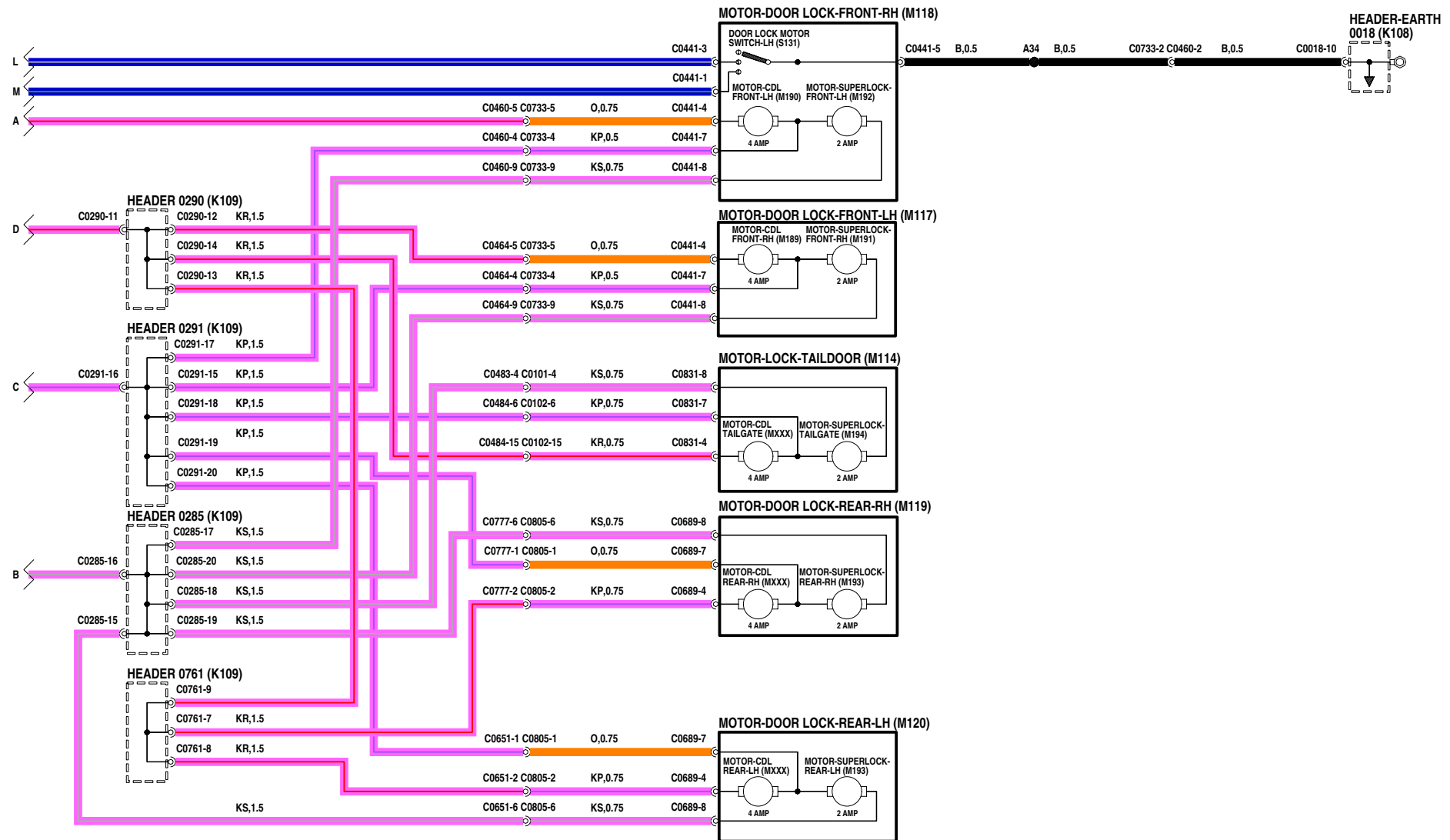
# CENTRAL DOOR LOCKING







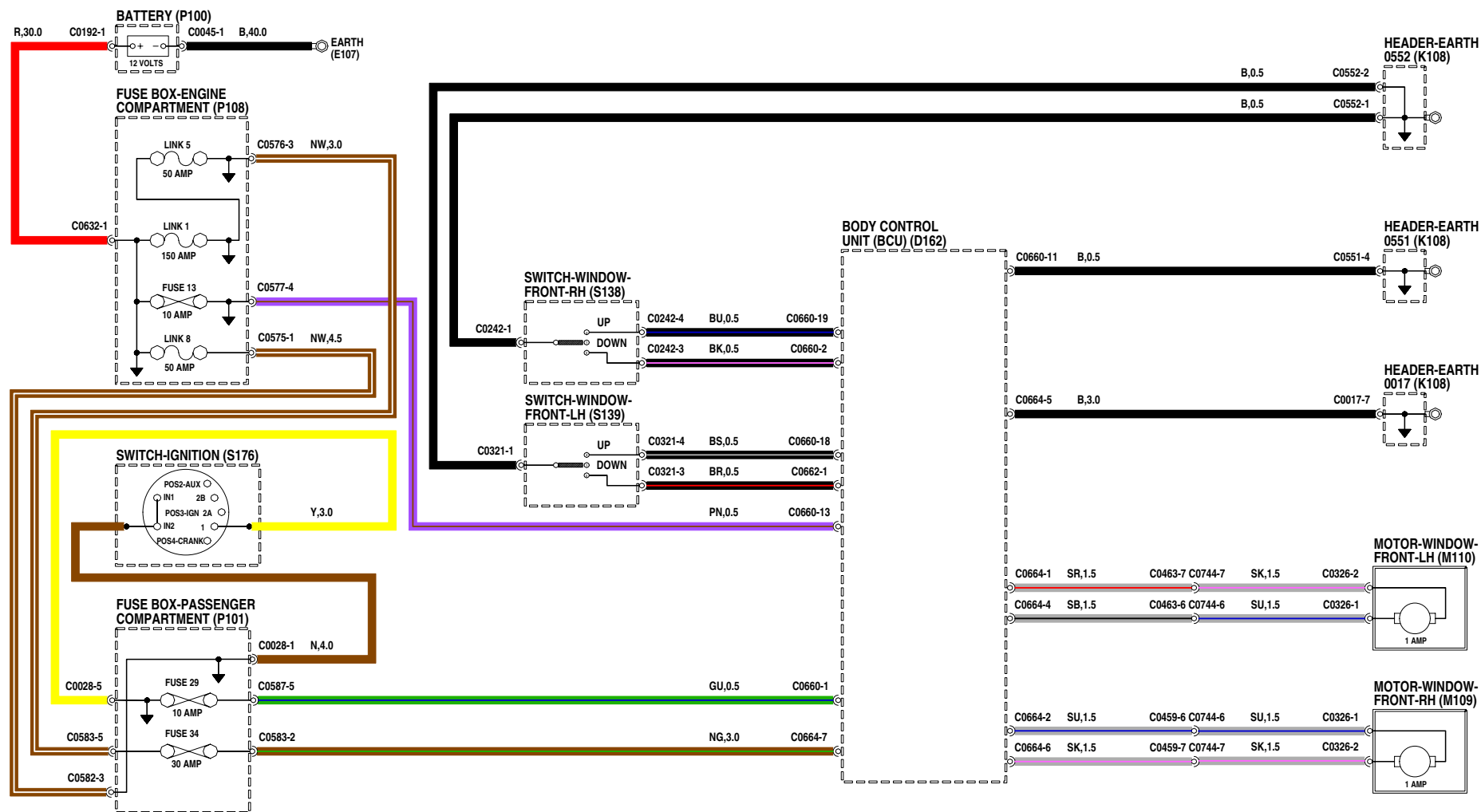
# CENTRAL DOOR LOCKING



VWR108170-3a/3

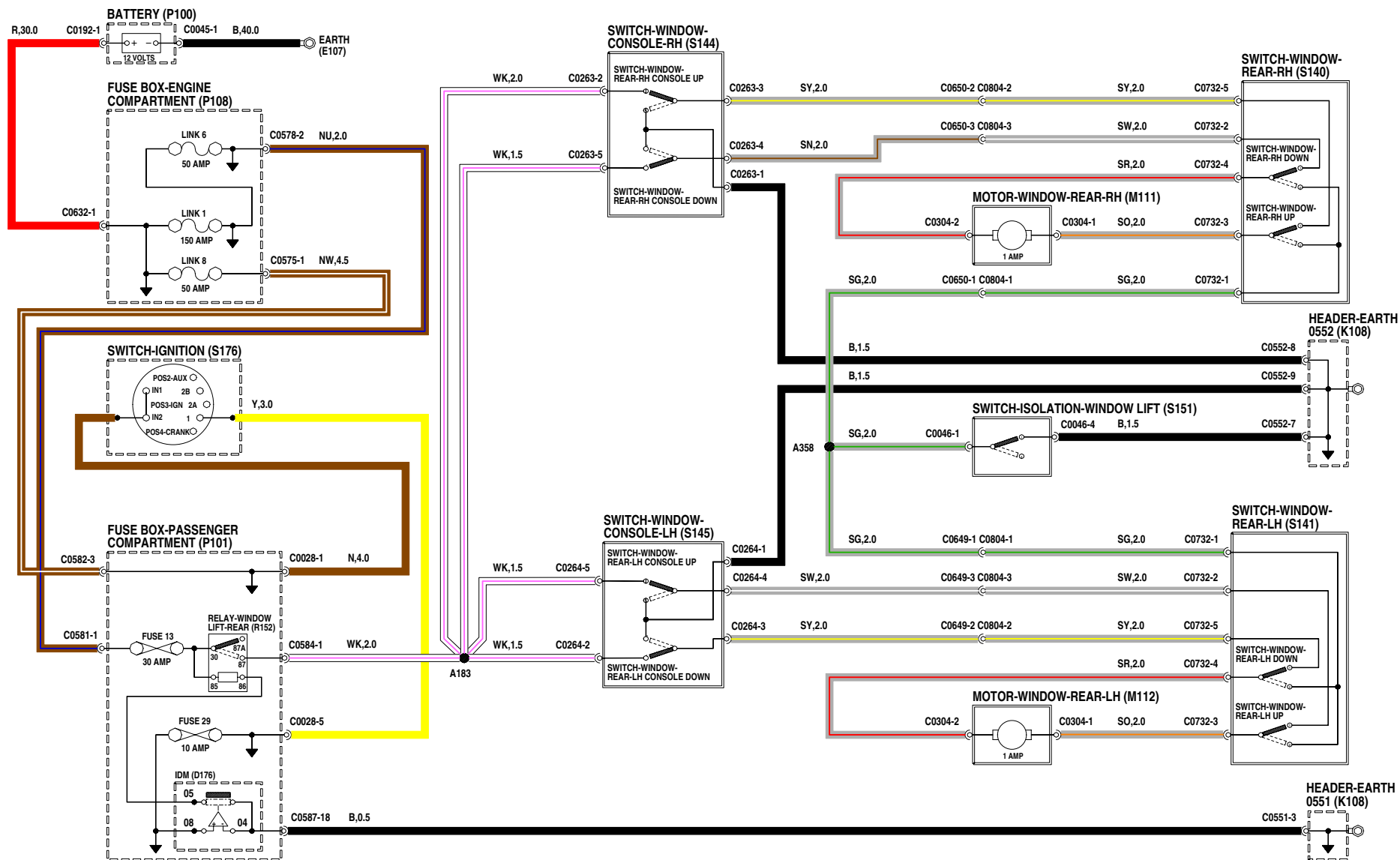


# WINDOWS FRONT



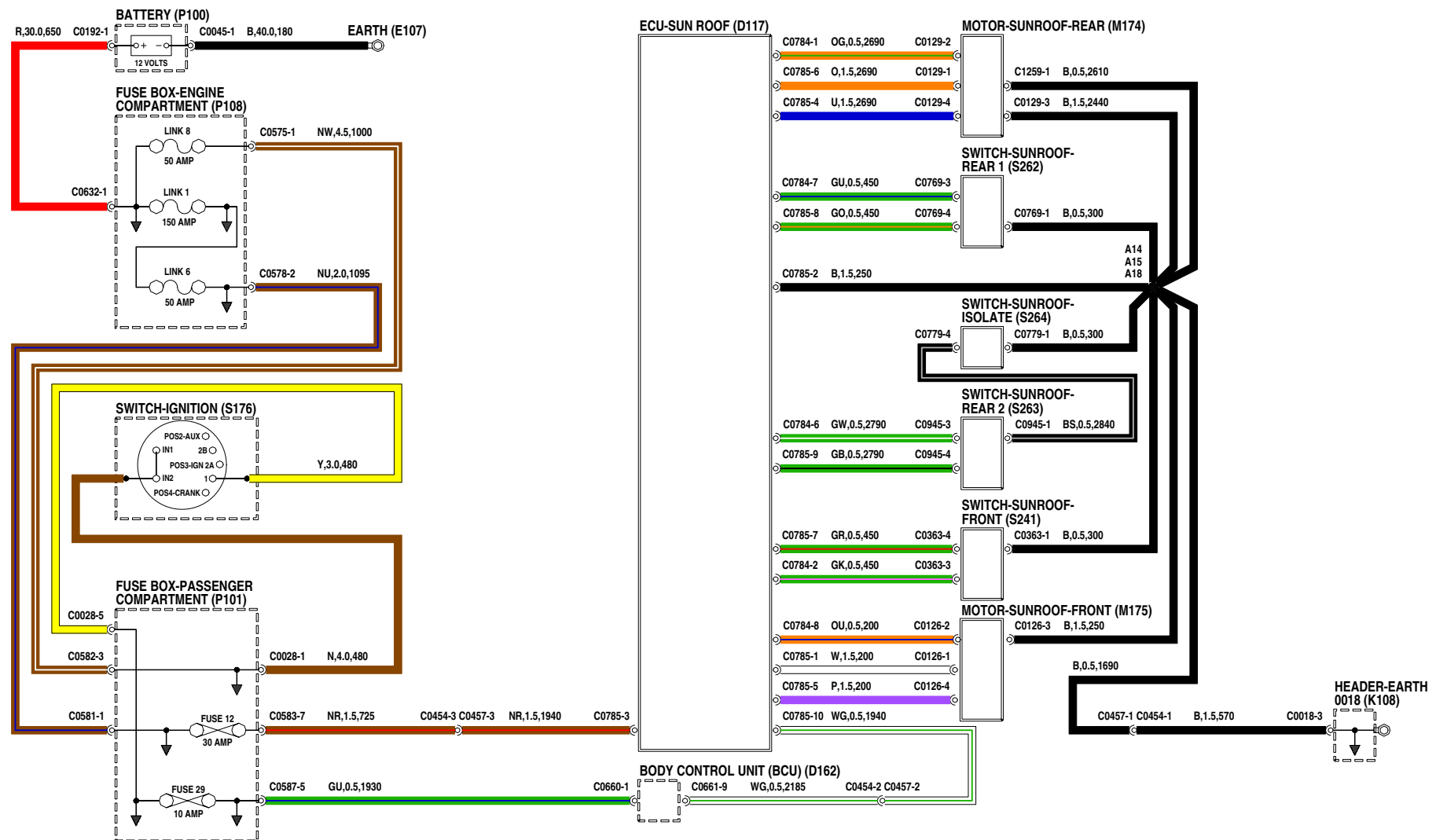
VWR108610-1a11

# WINDOWS REAR



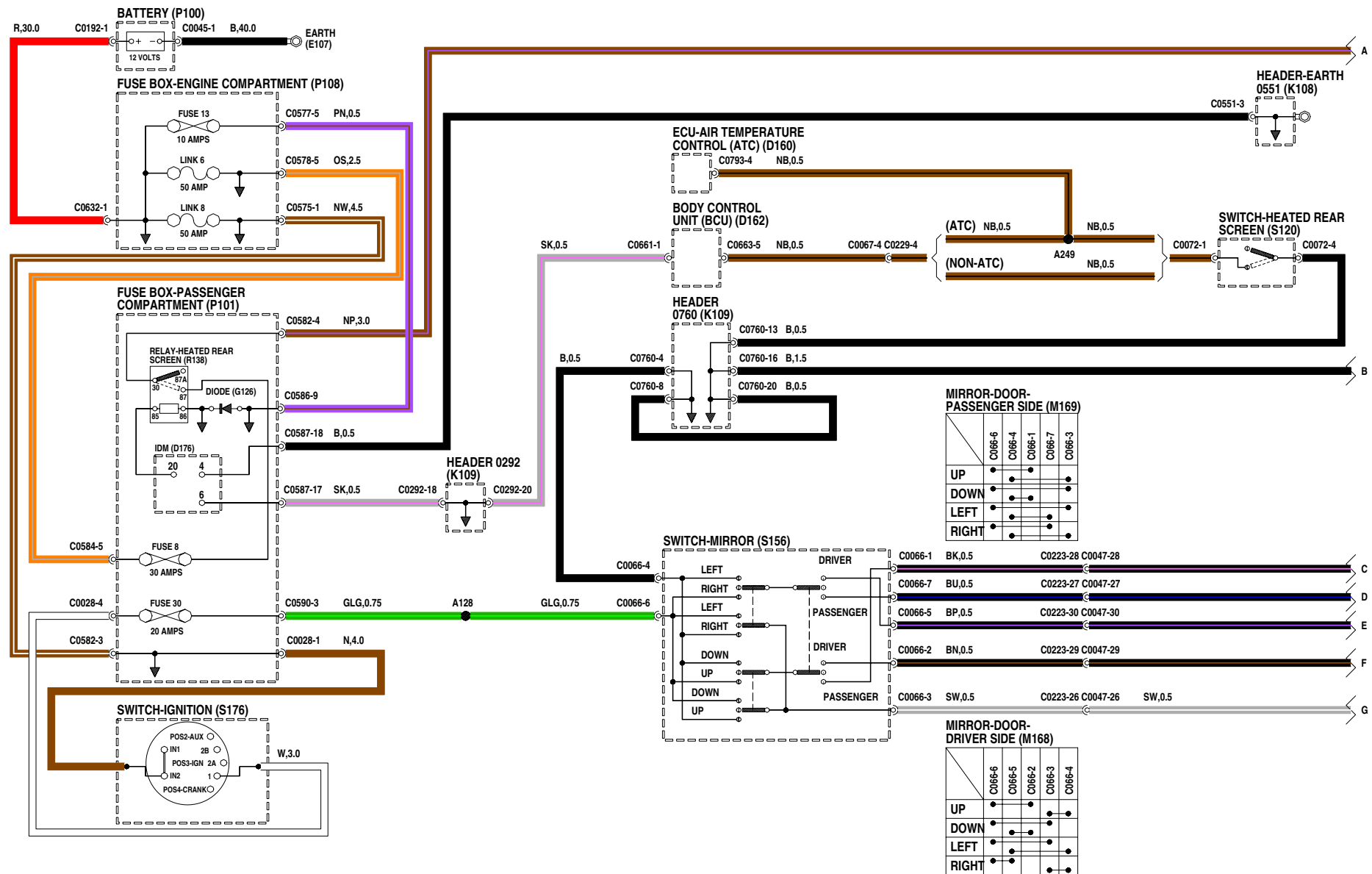
VWR108640-1a11

# SUNROOF





# DOOR MIRRORS

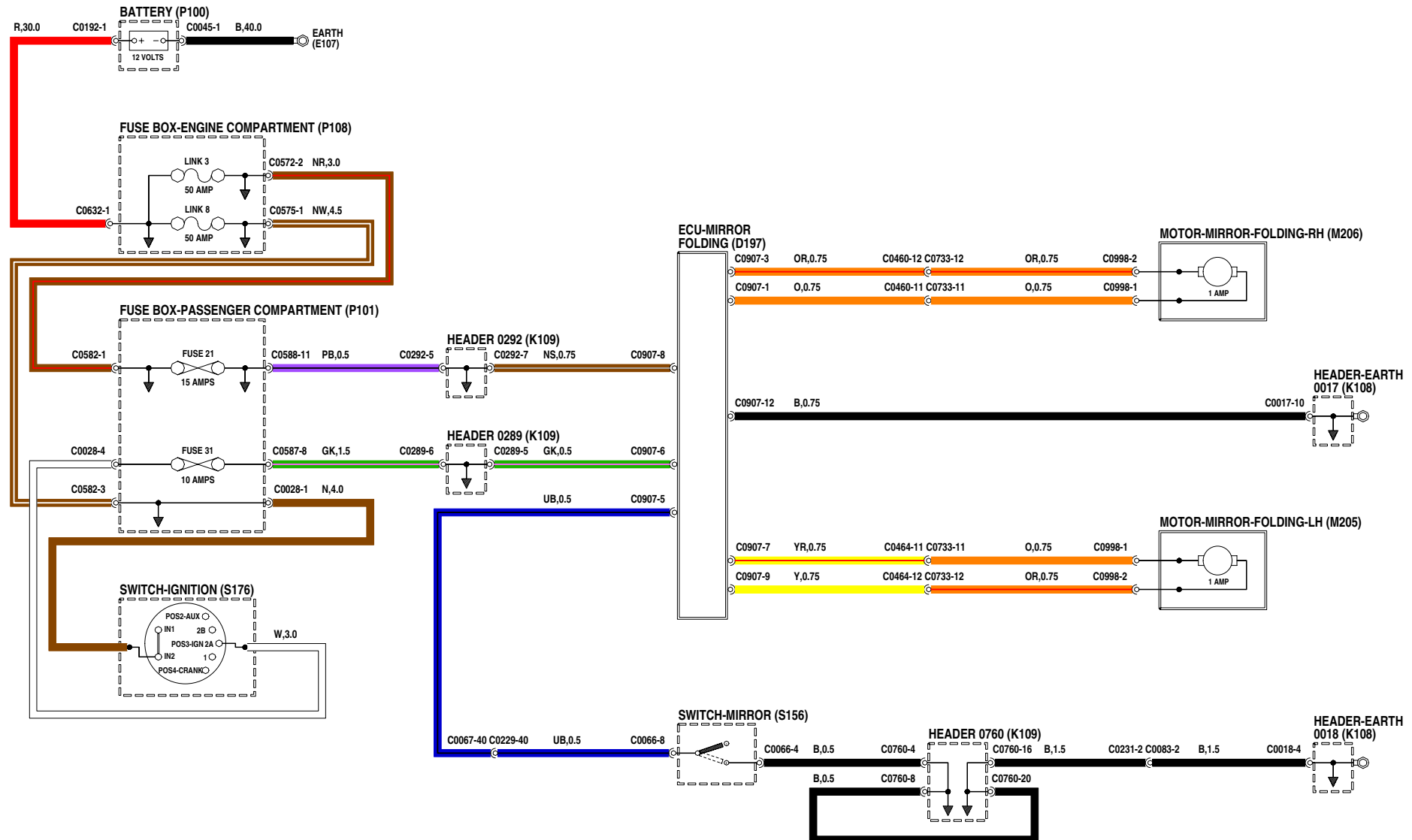


VWR108510-1a2





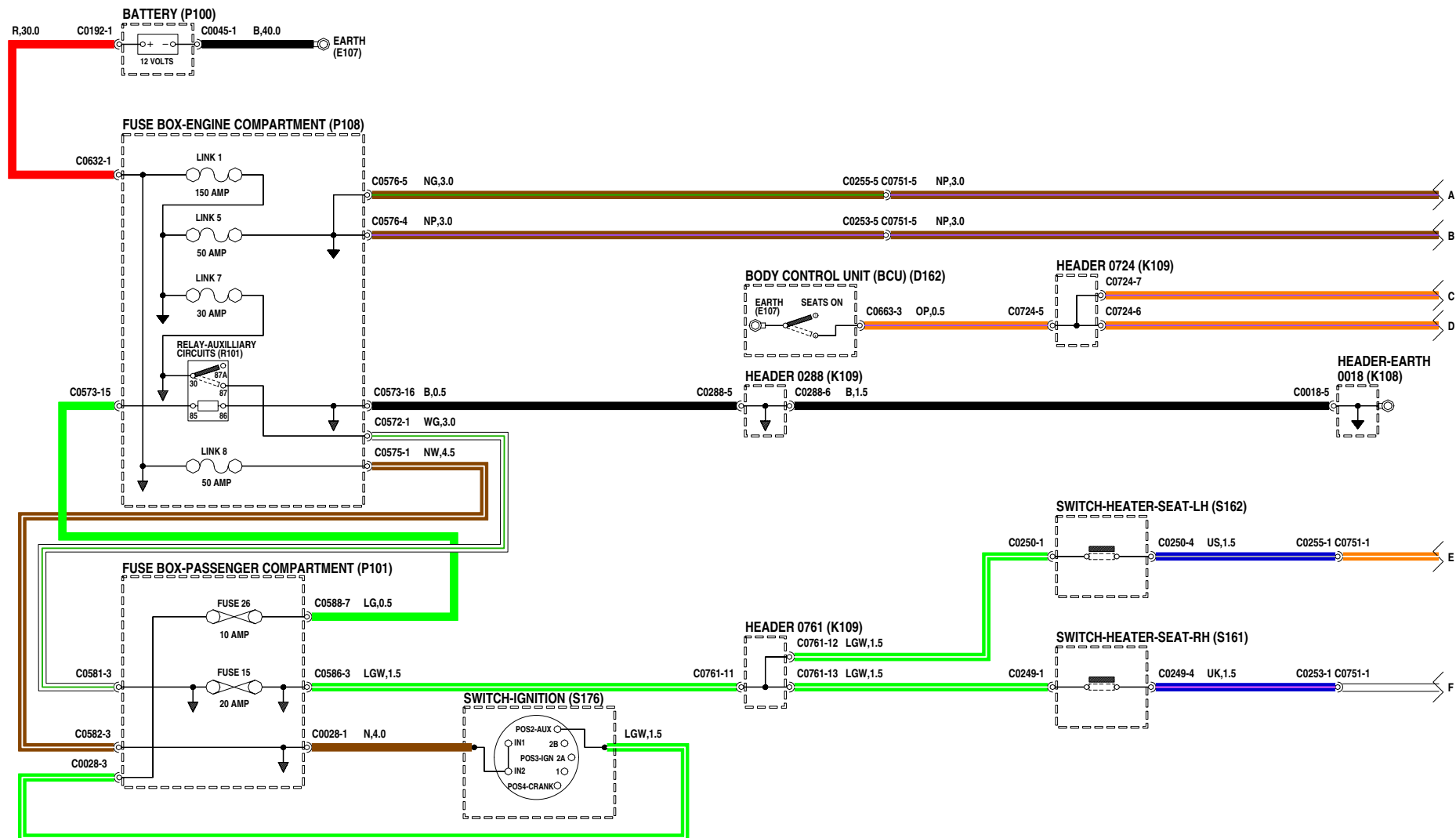
# FOLDING DOOR MIRRORS



VWR108340-1a11

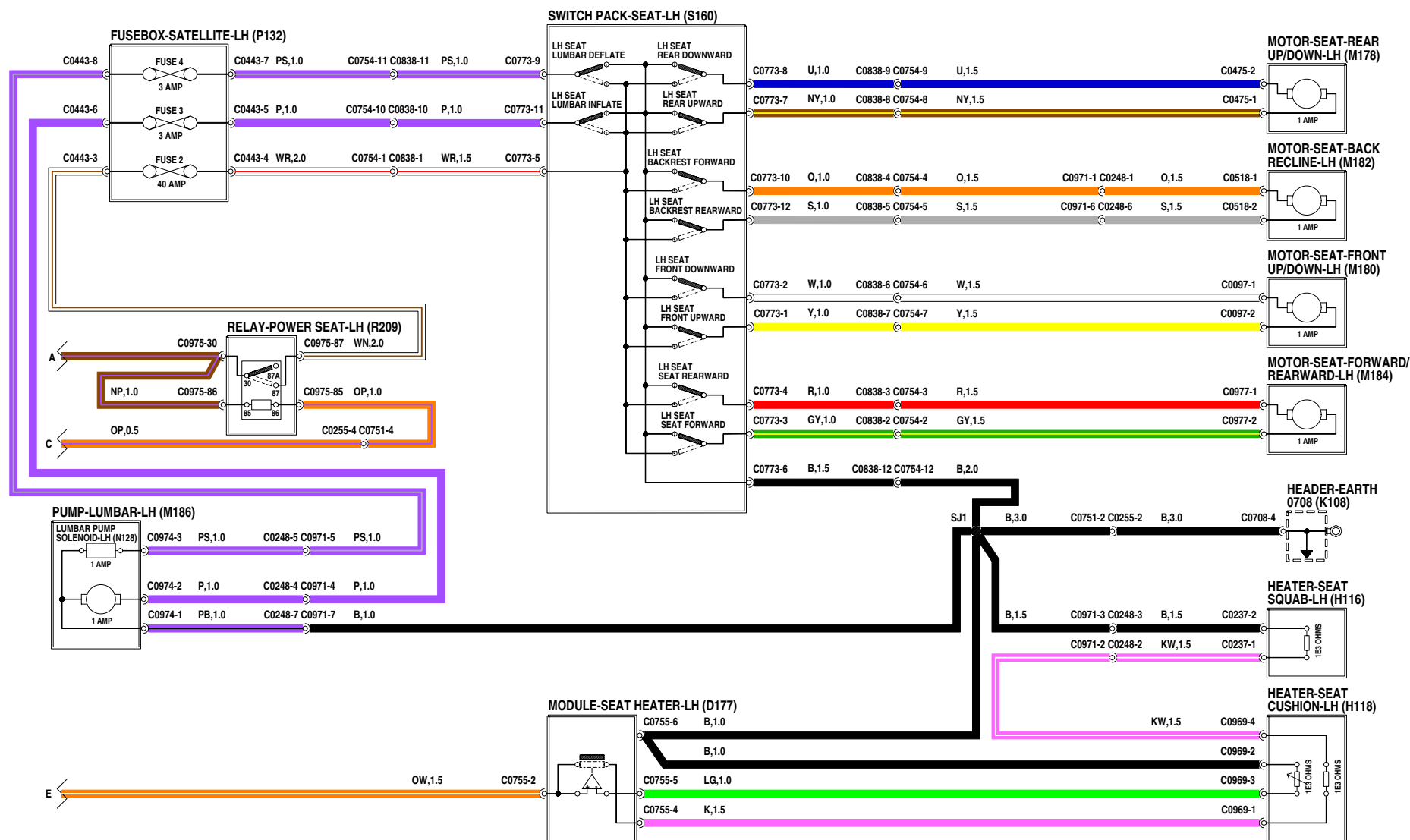


# SEATS POWER - HEATED

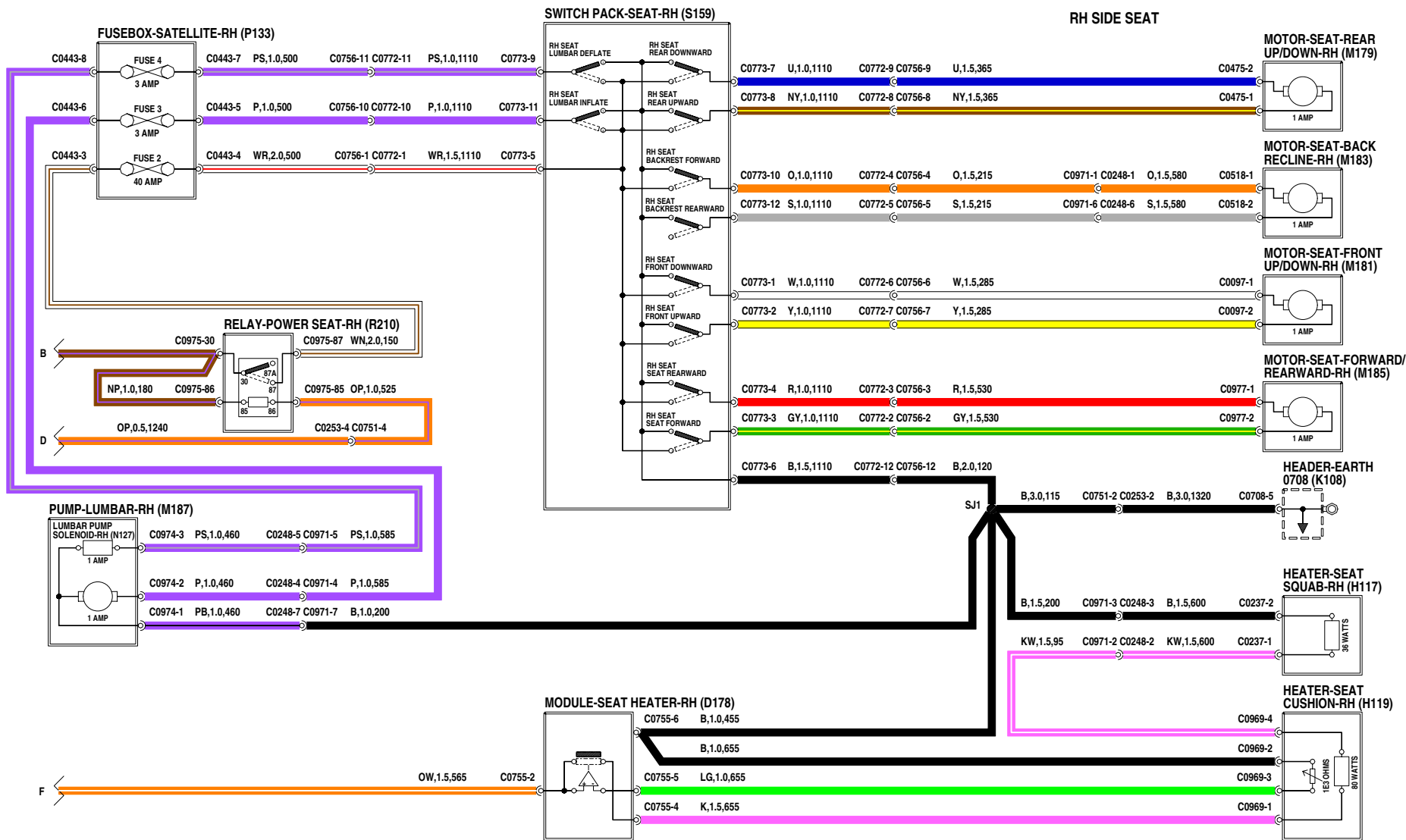


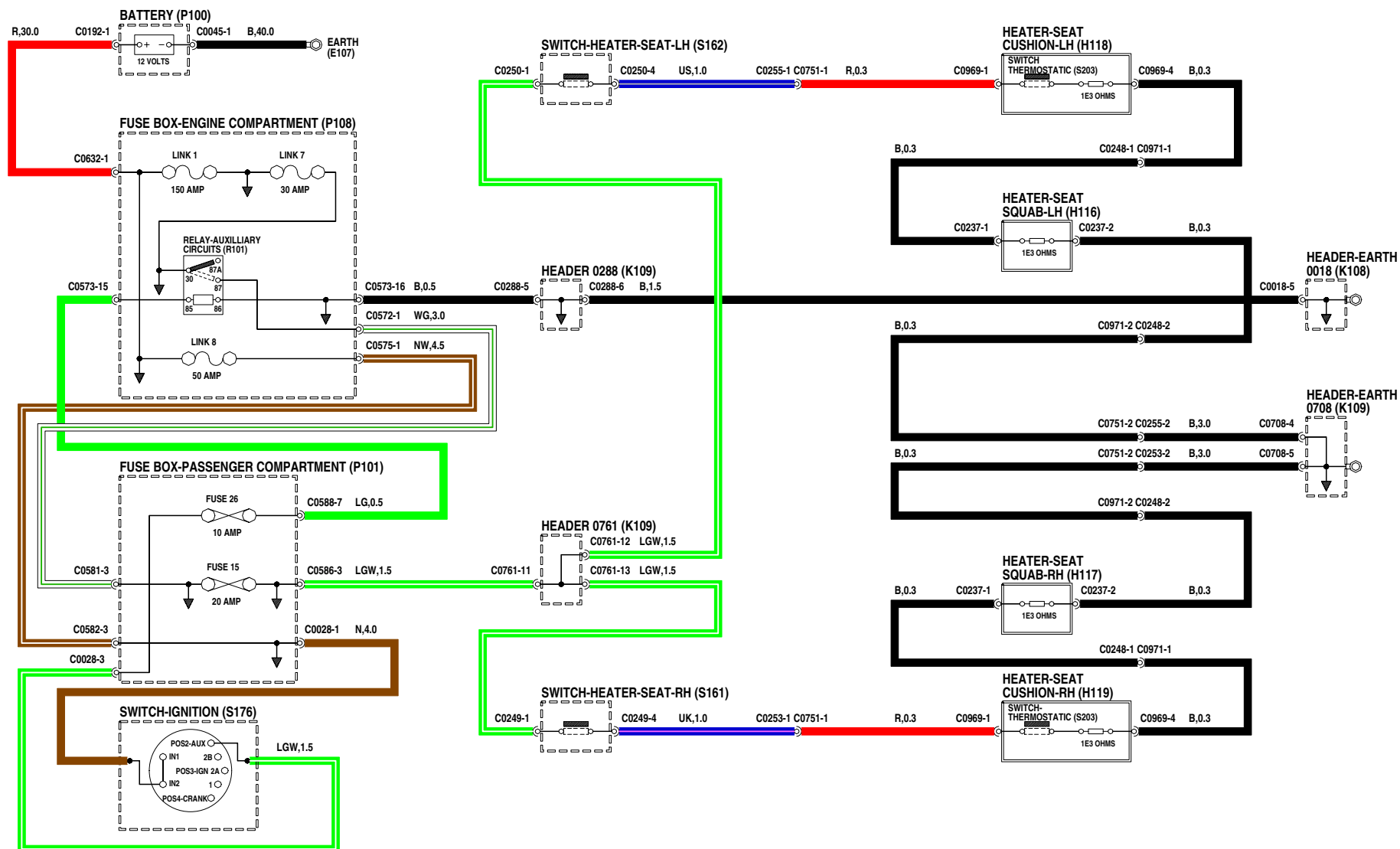
VWR108530-1a03

# SEATS POWER - HEATED

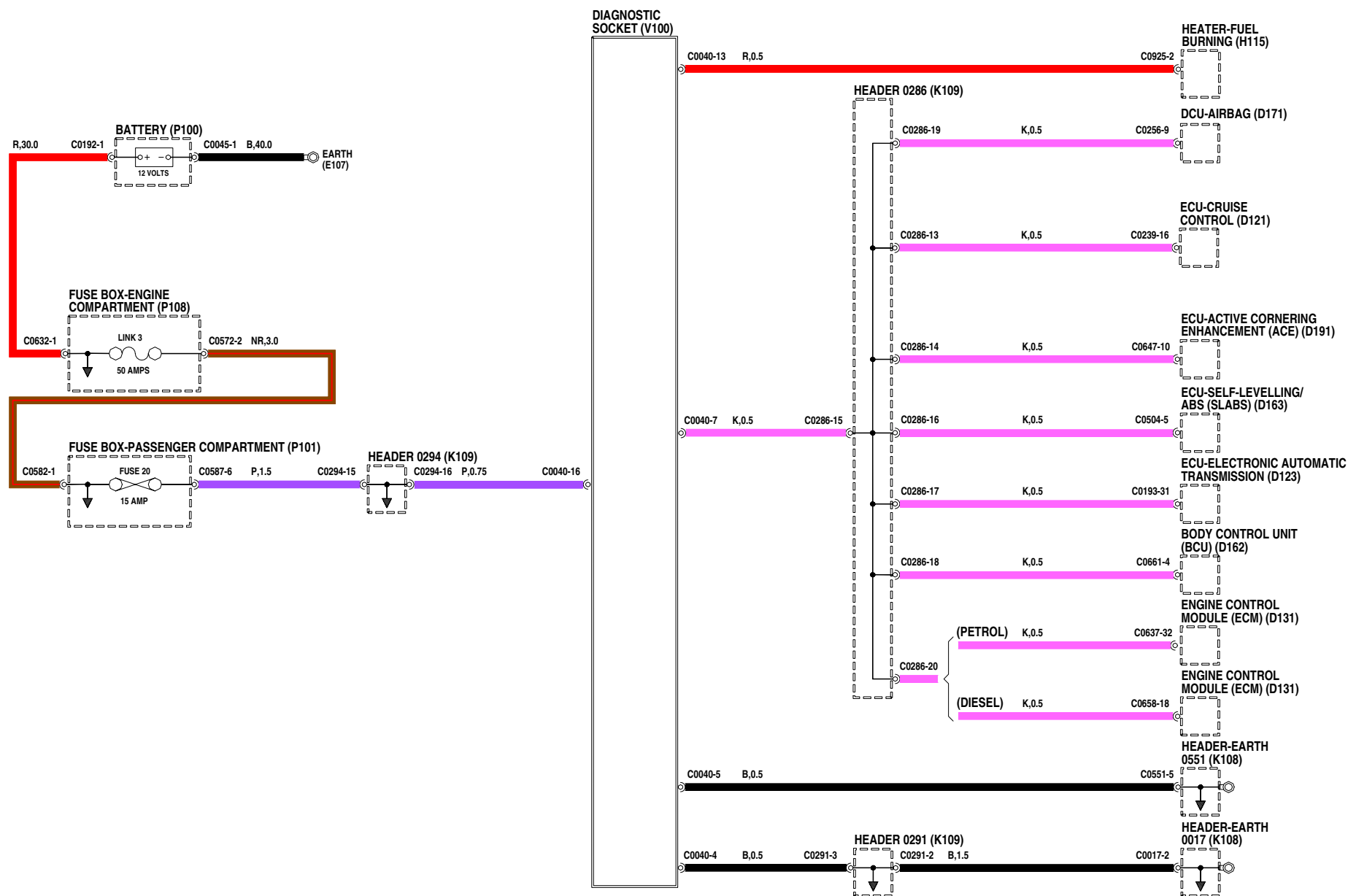


**SEATS**  
**POWER - HEATED**





# DIAGNOSTIC SOCKET

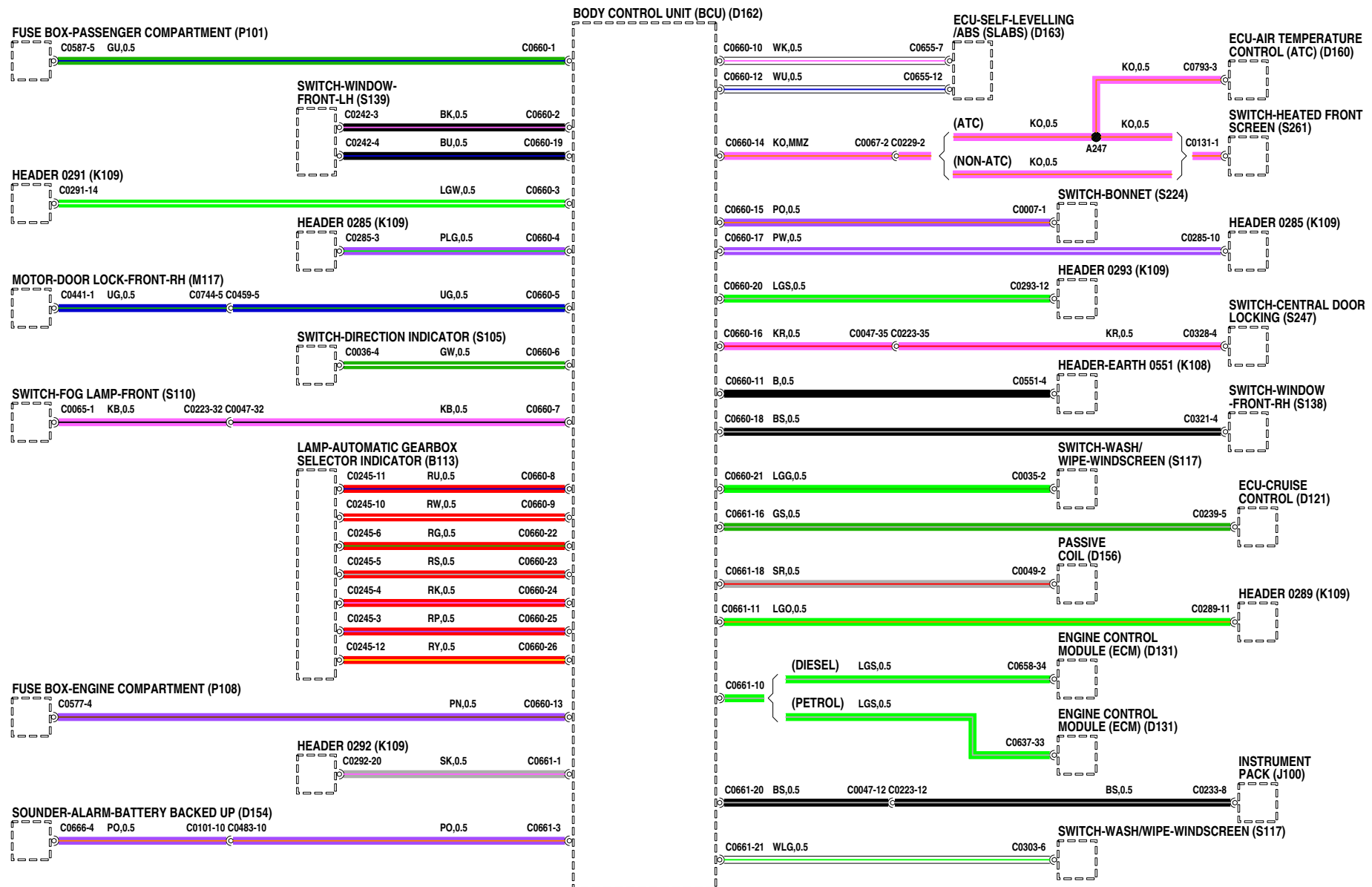


VWR108250-1of1

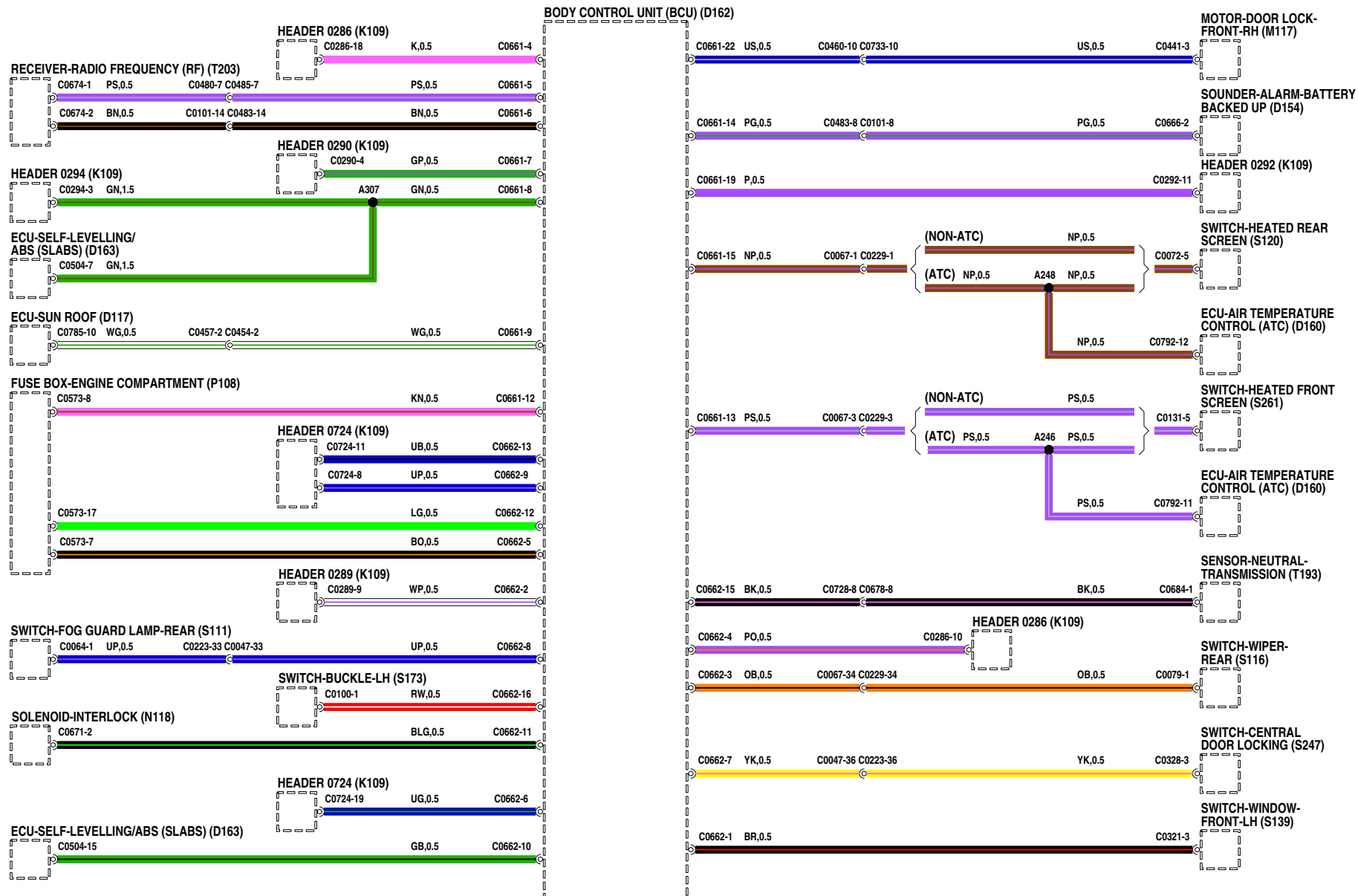




# BODY CONTROL UNIT (BCU)

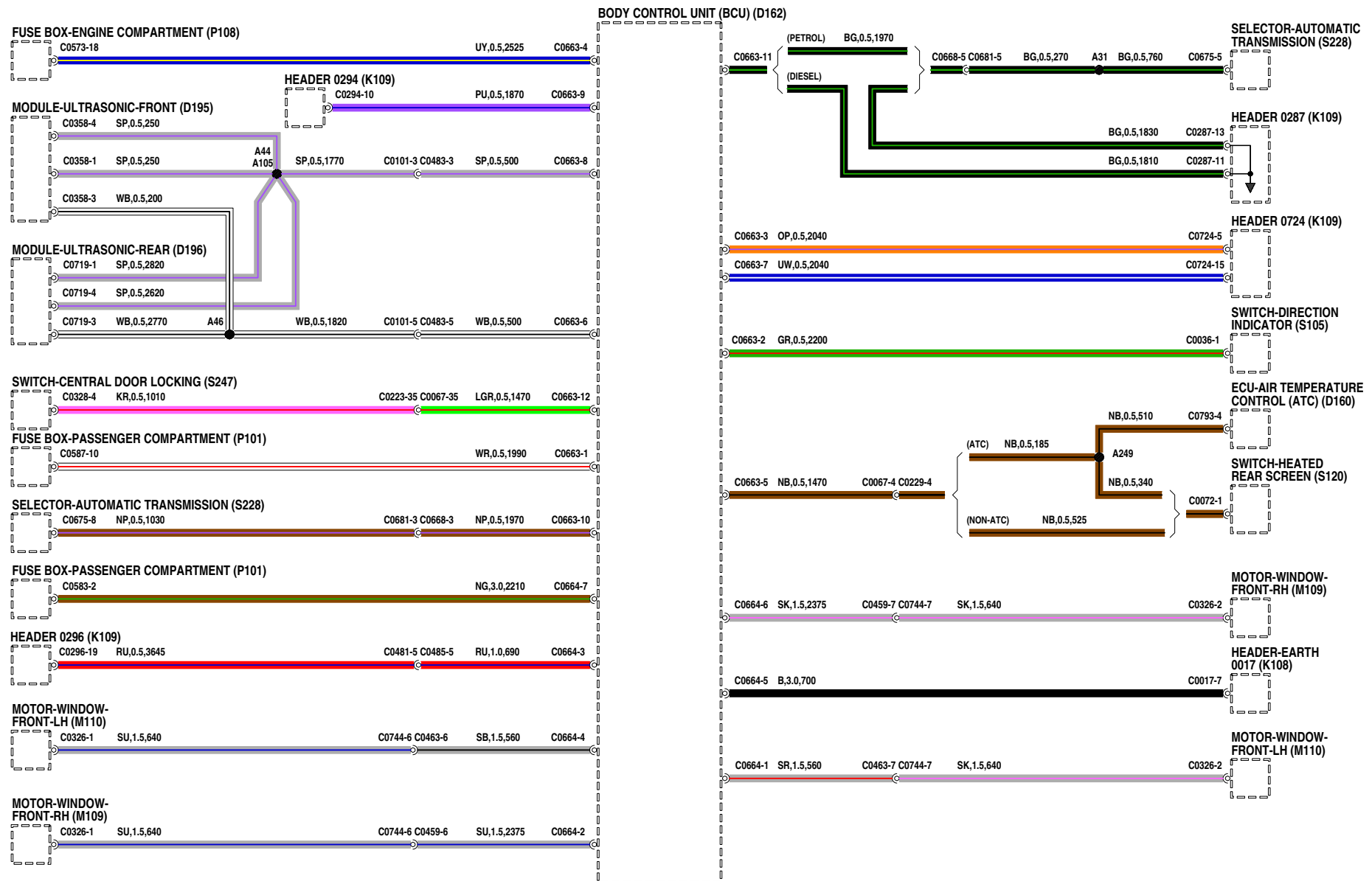


# BODY CONTROL UNIT (BCU)



VWR108210-2x03

# BODY CONTROL UNIT (BCU)

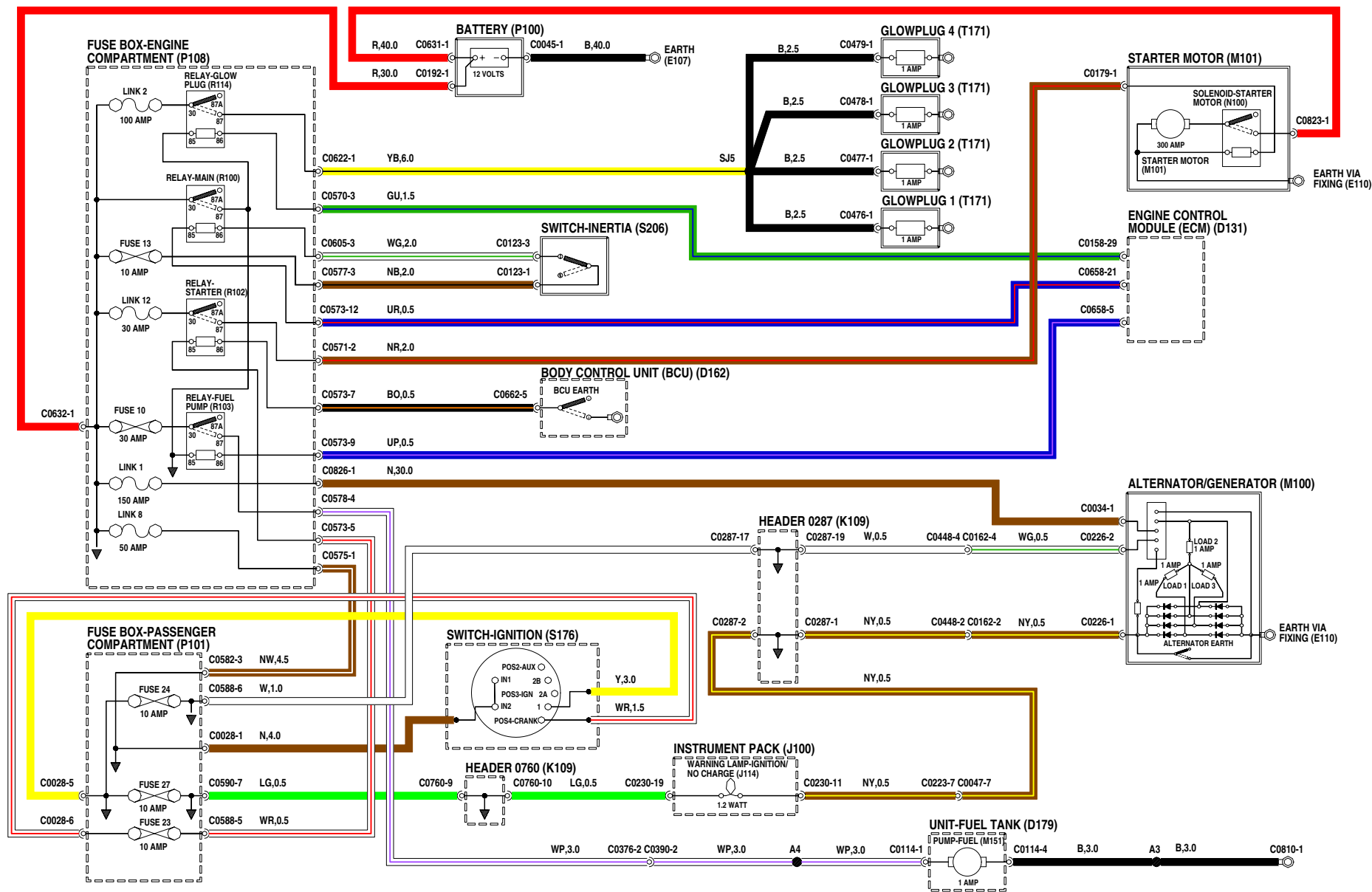


VWR108210-3a/3



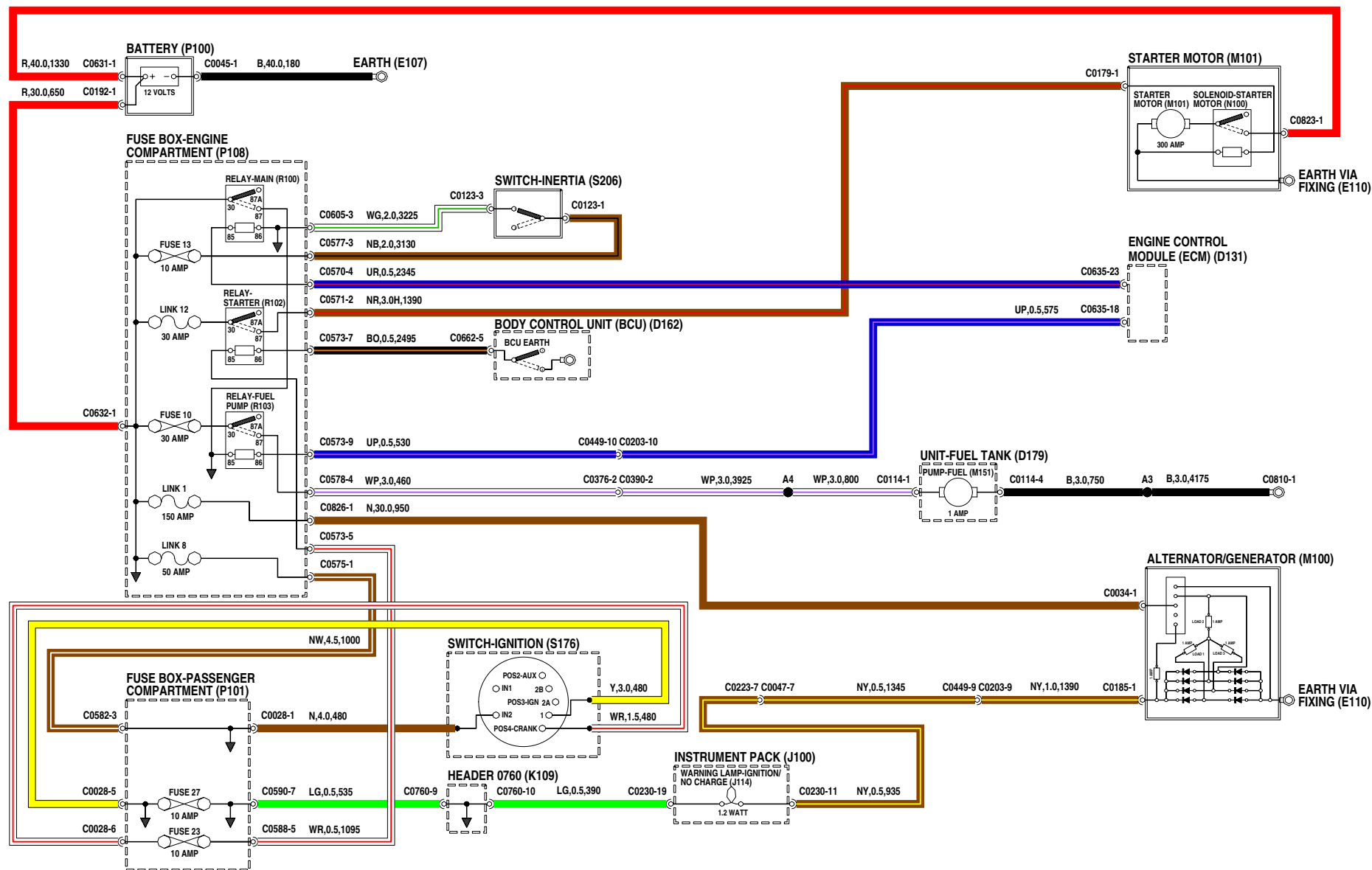
# CHARGING AND STARTING

Td5



VWR108570-1of1

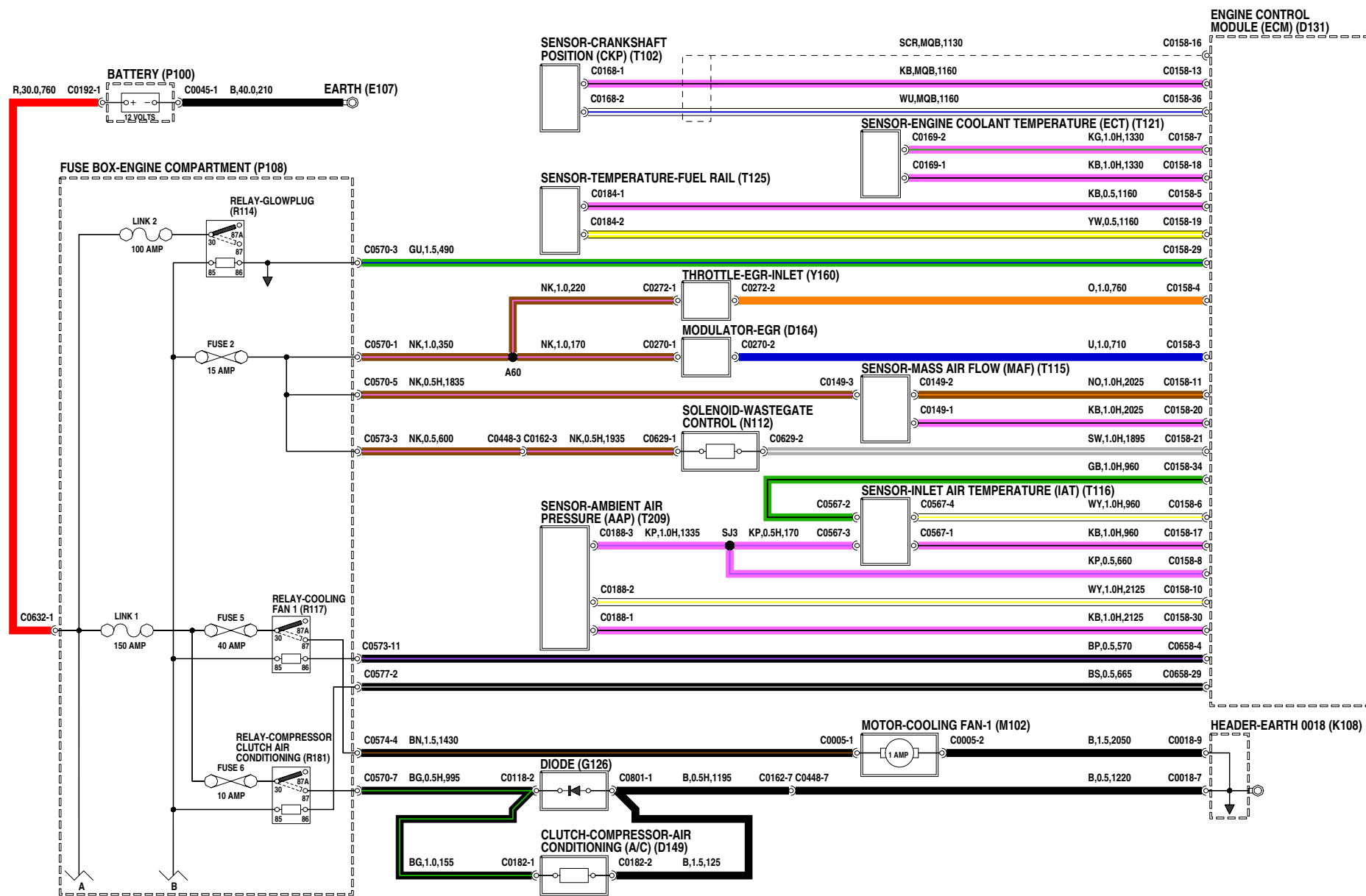
# CHARGING AND STARTING V8



VWR108580-1 of 1

# ENGINE MANAGEMENT

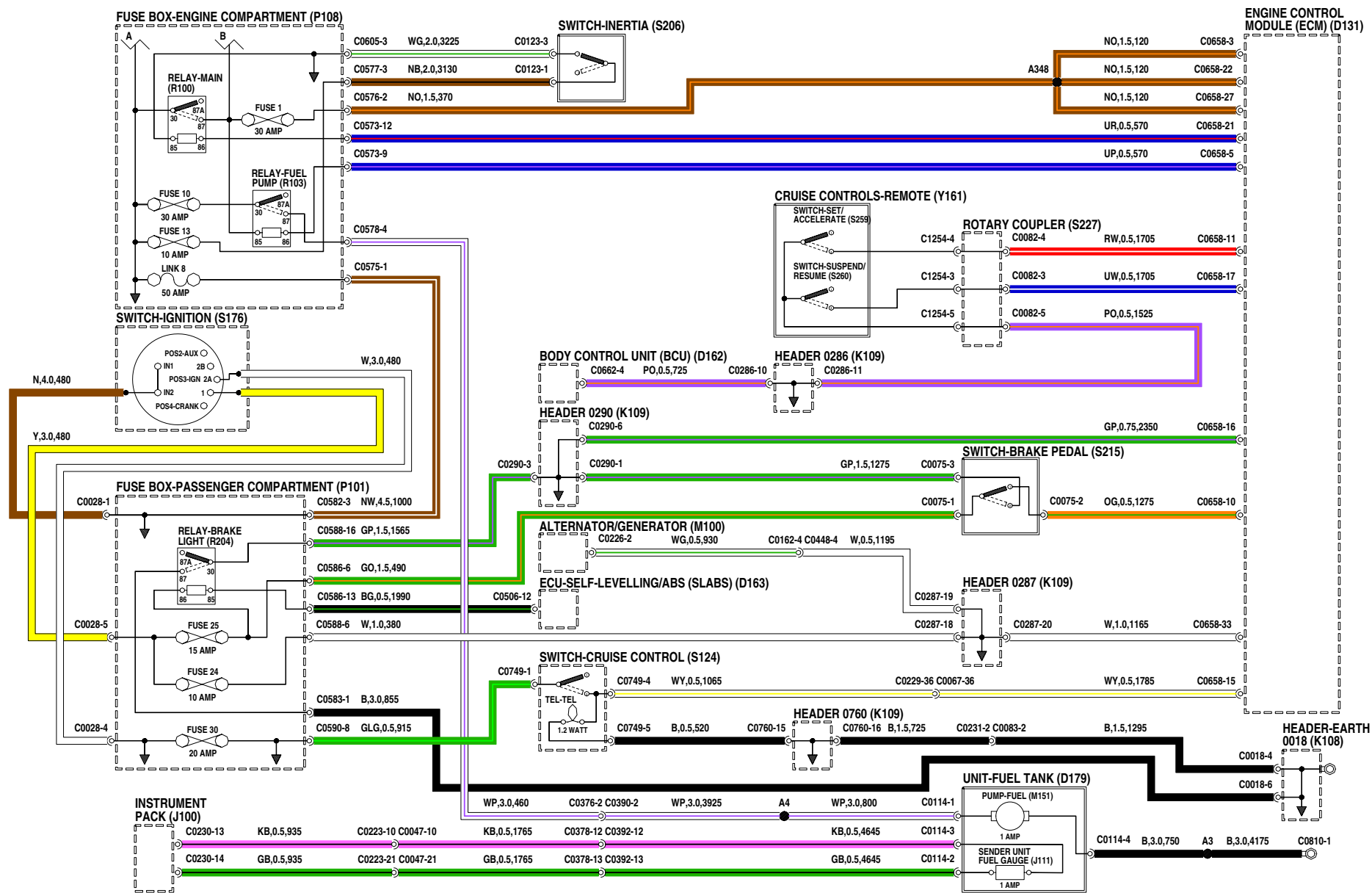
Td5



VWR108270-1cd3

# ENGINE MANAGEMENT

Td5

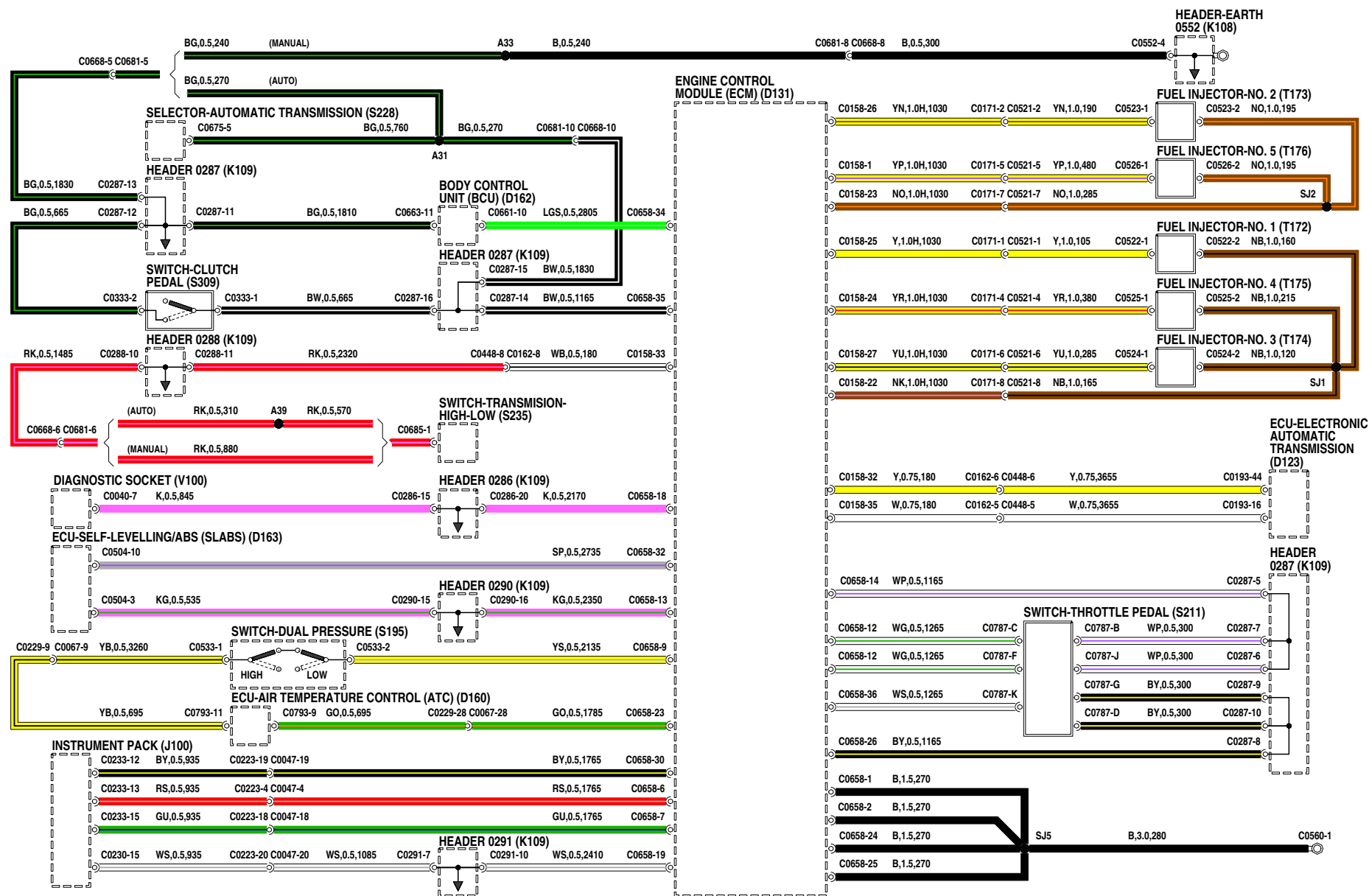


VWR108270-2a/3



# ENGINE MANAGEMENT

## Td5

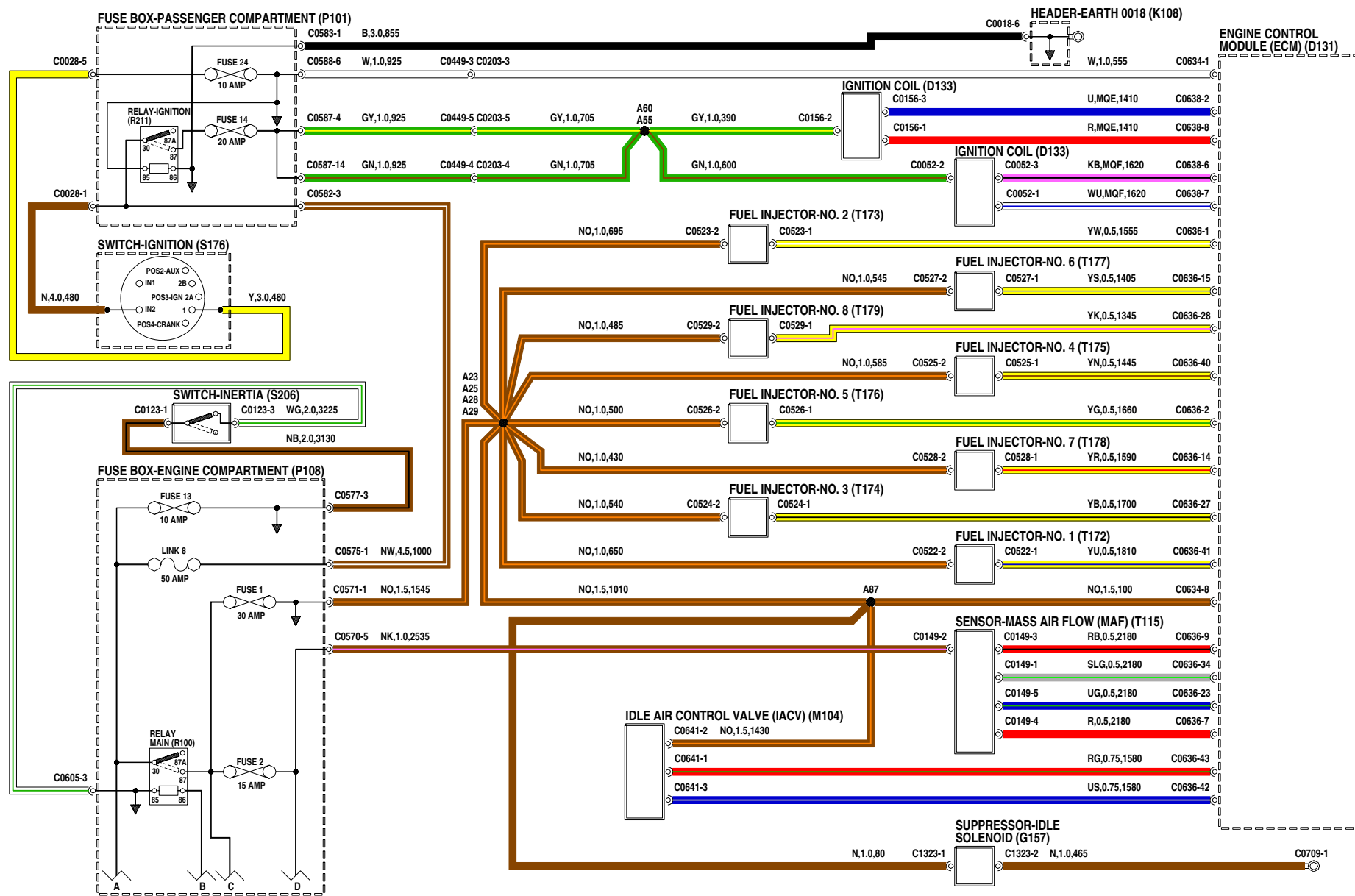


VWR108270-3a03



# ENGINE MANAGEMENT

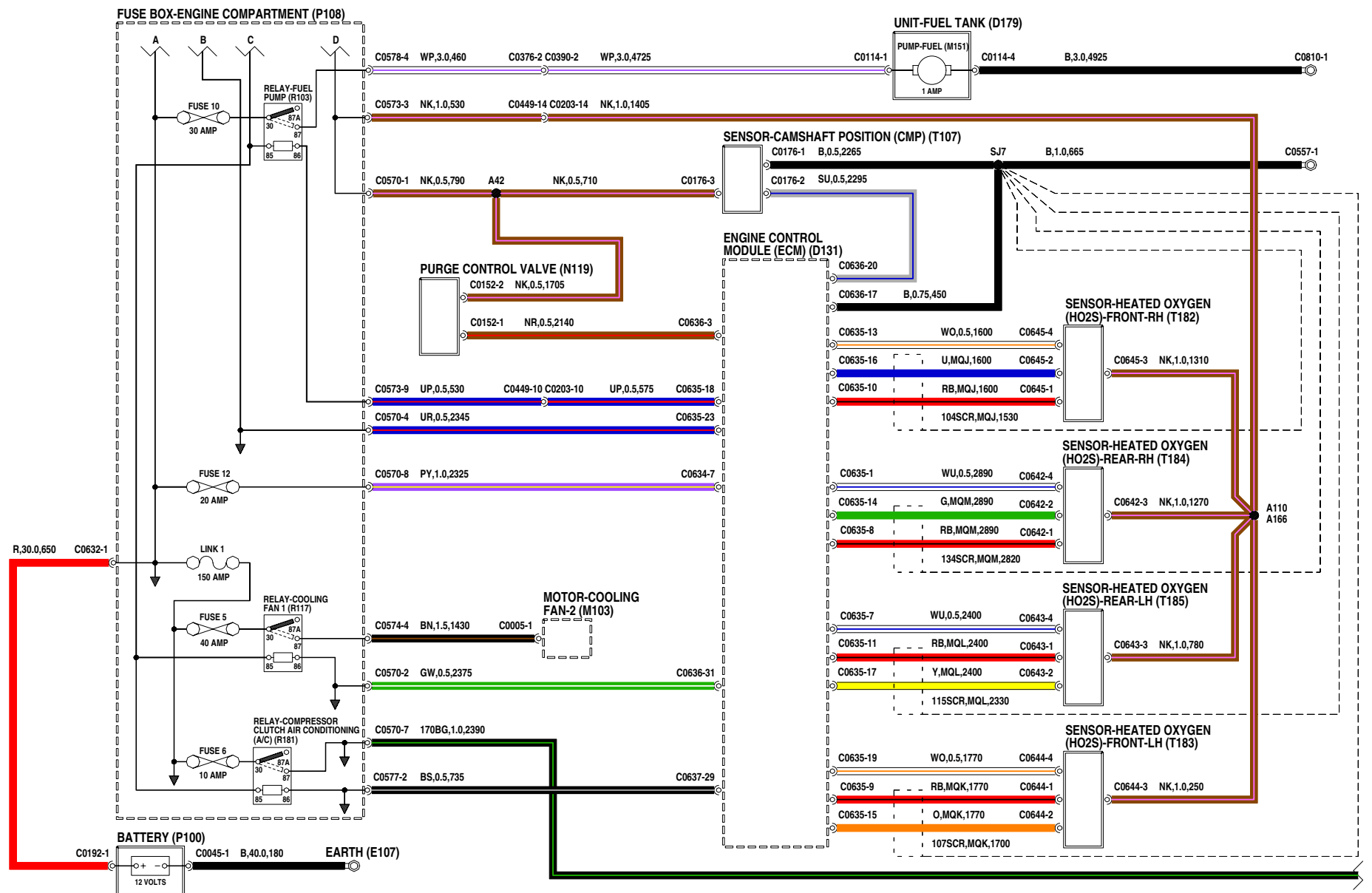
## V8



VWR106280-1 of 3

# ENGINE MANAGEMENT

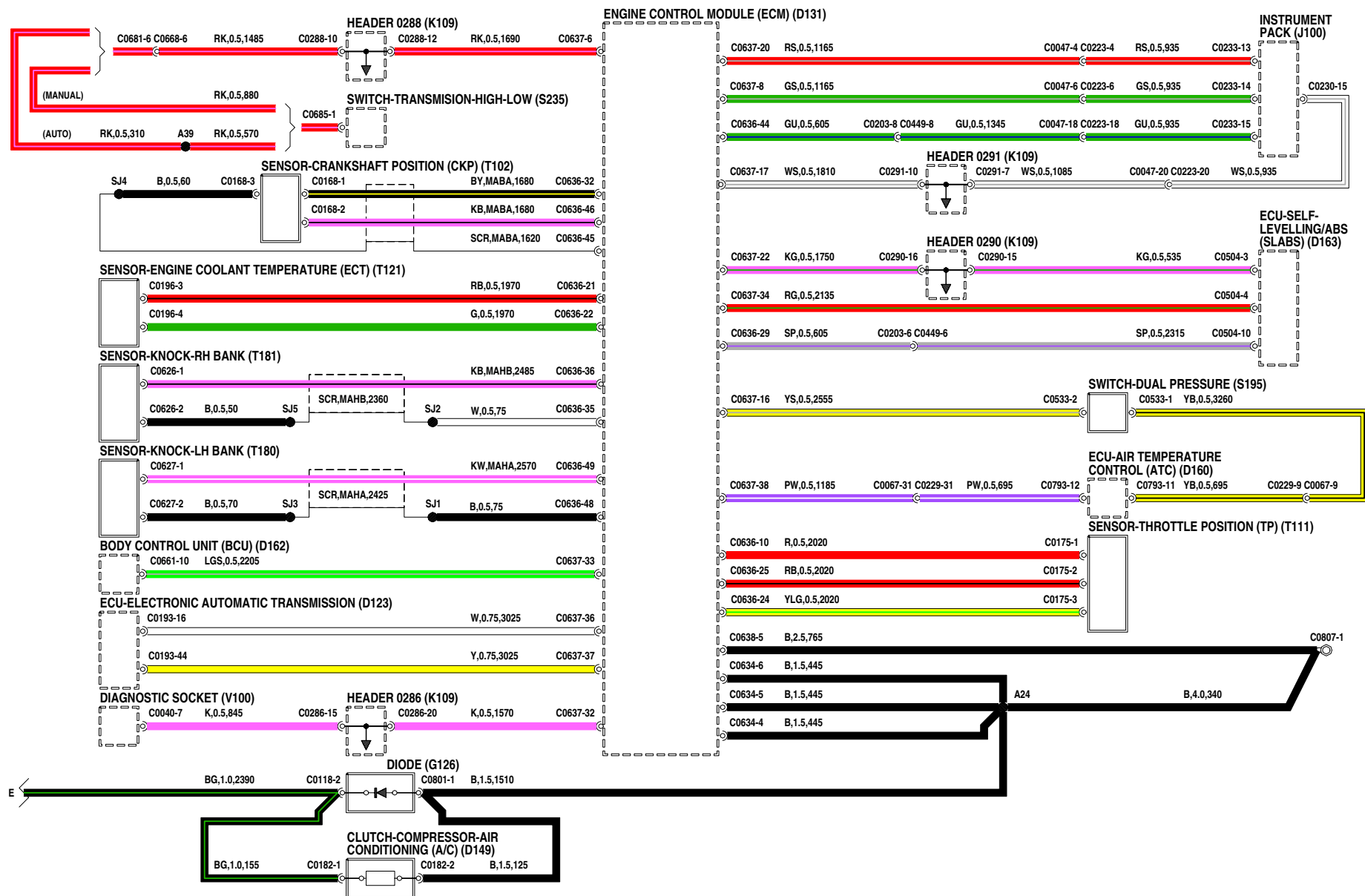
## V8



VWR106280-2of3

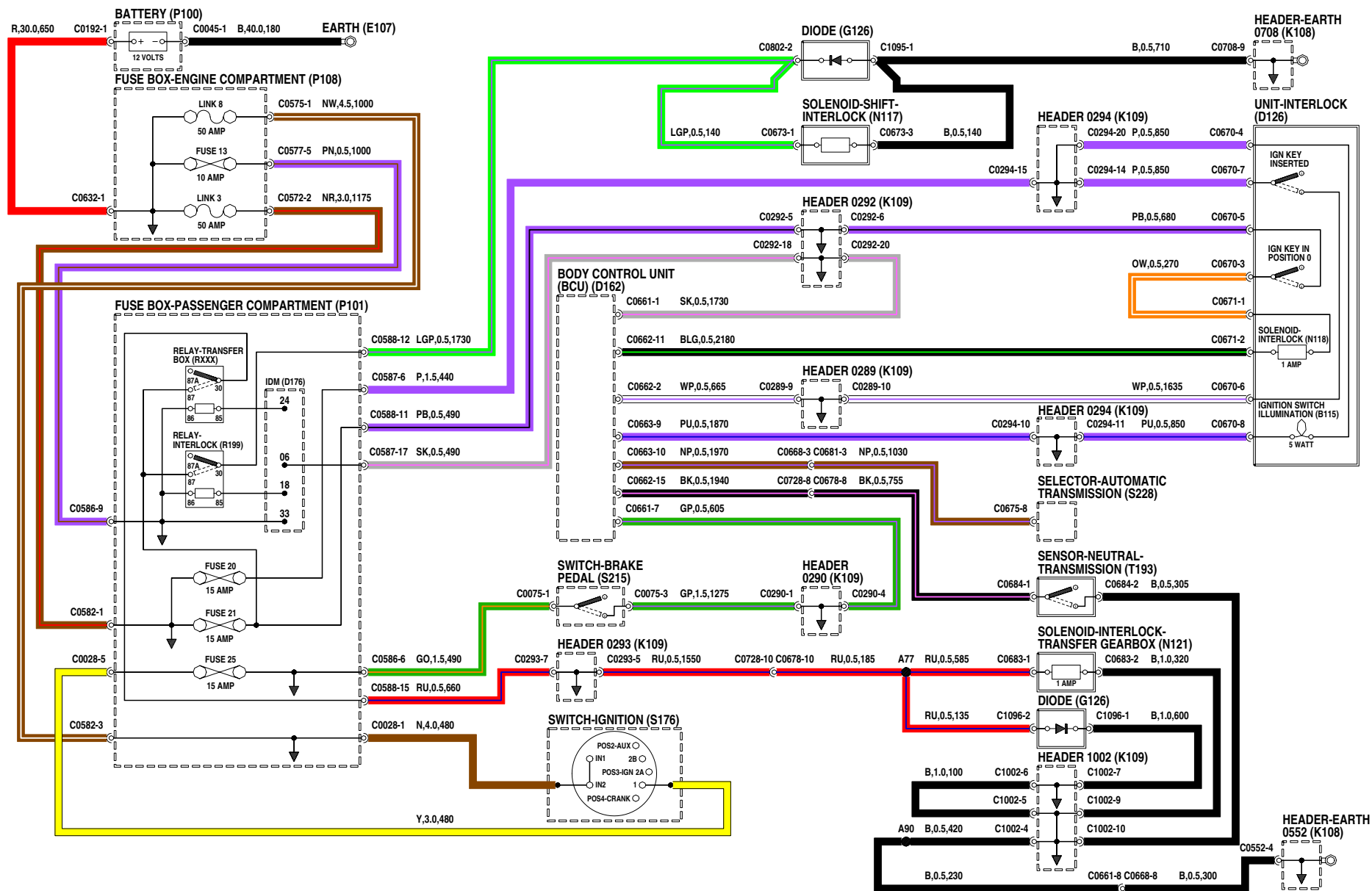
# ENGINE MANAGEMENT

## V8



VWR108280-3of3

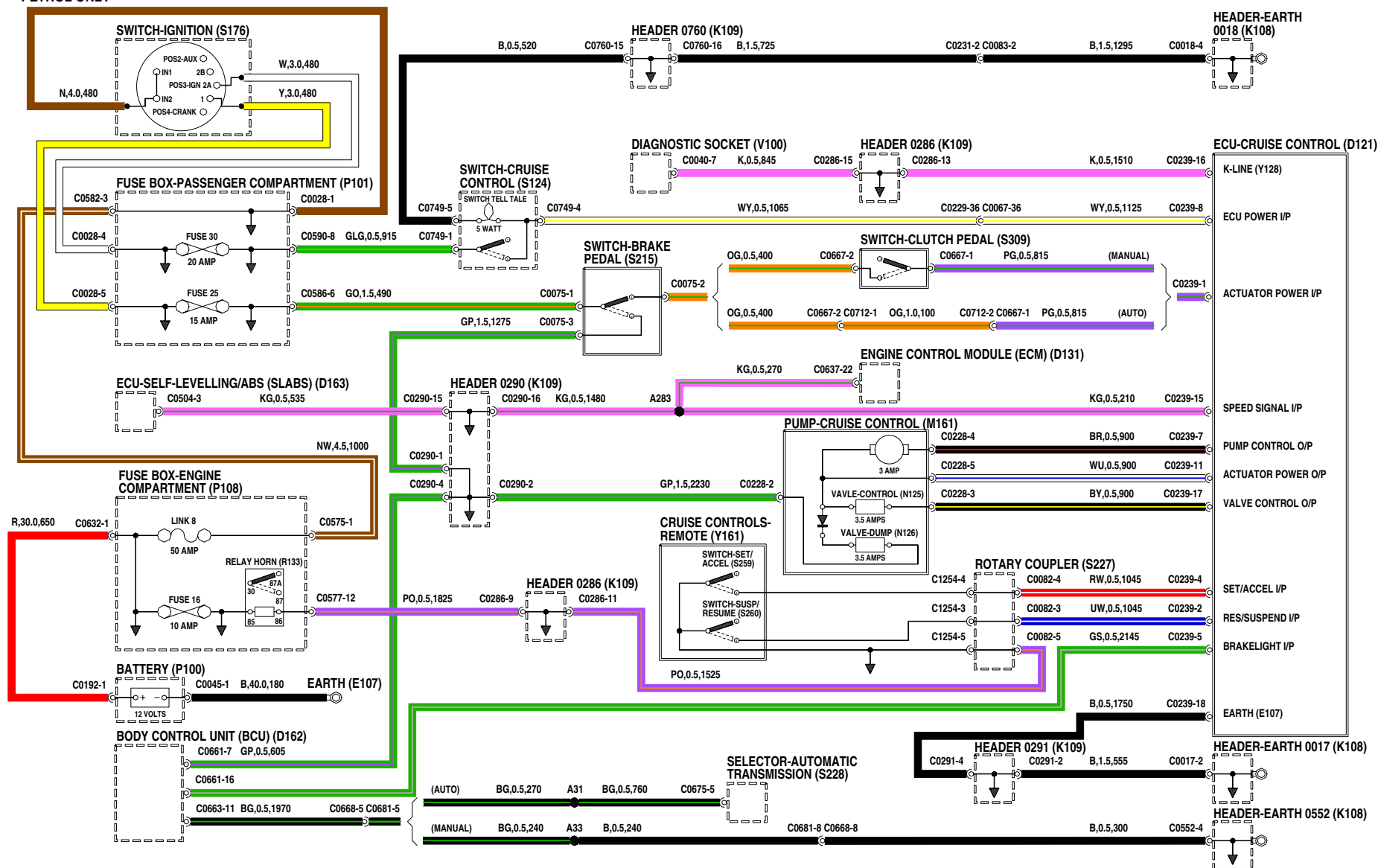
# IGNITION/SHIFT INTERLOCK



VWR108450-1of1

# CRUISE CONTROL

PETROL ONLY

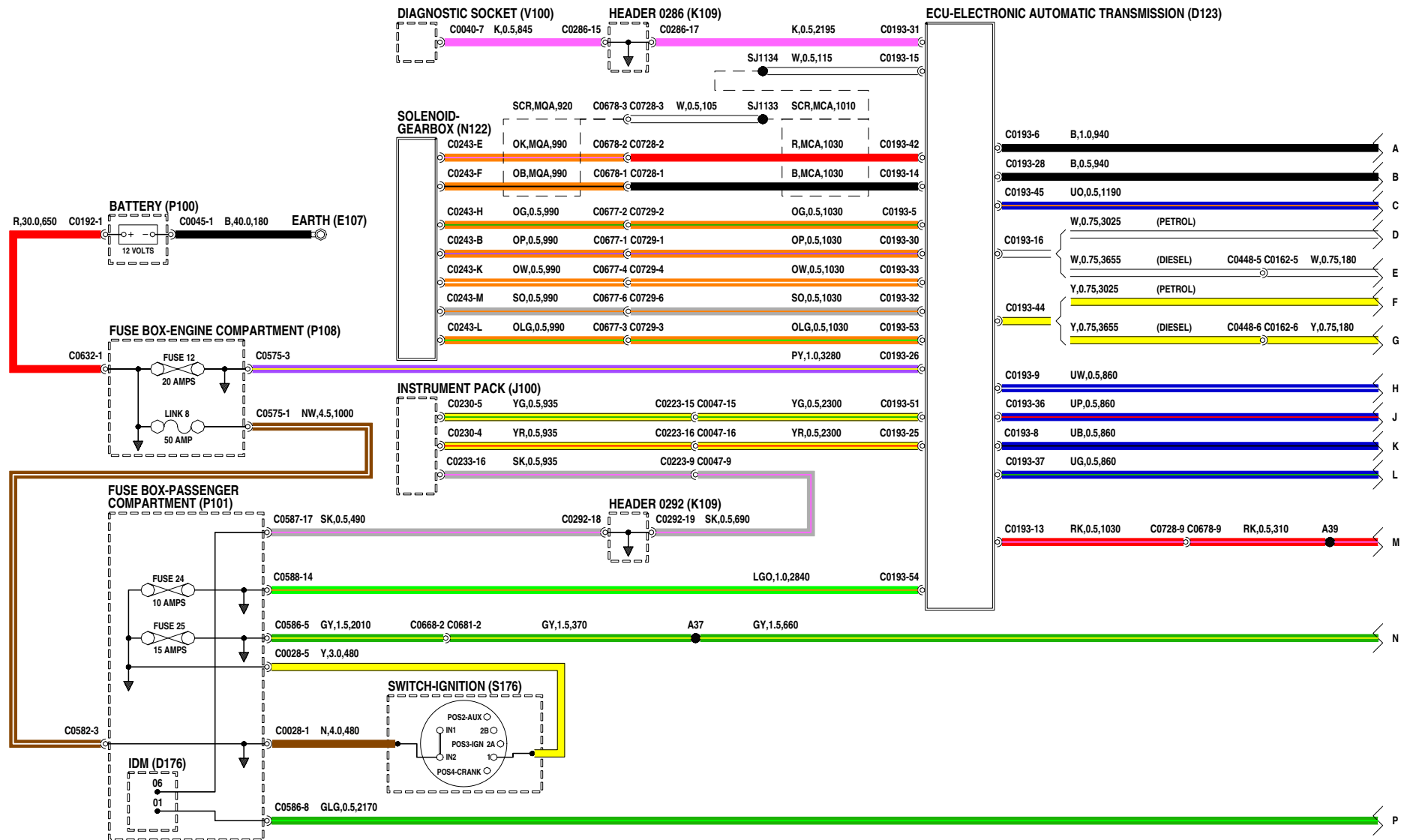


VWR108240-1of1

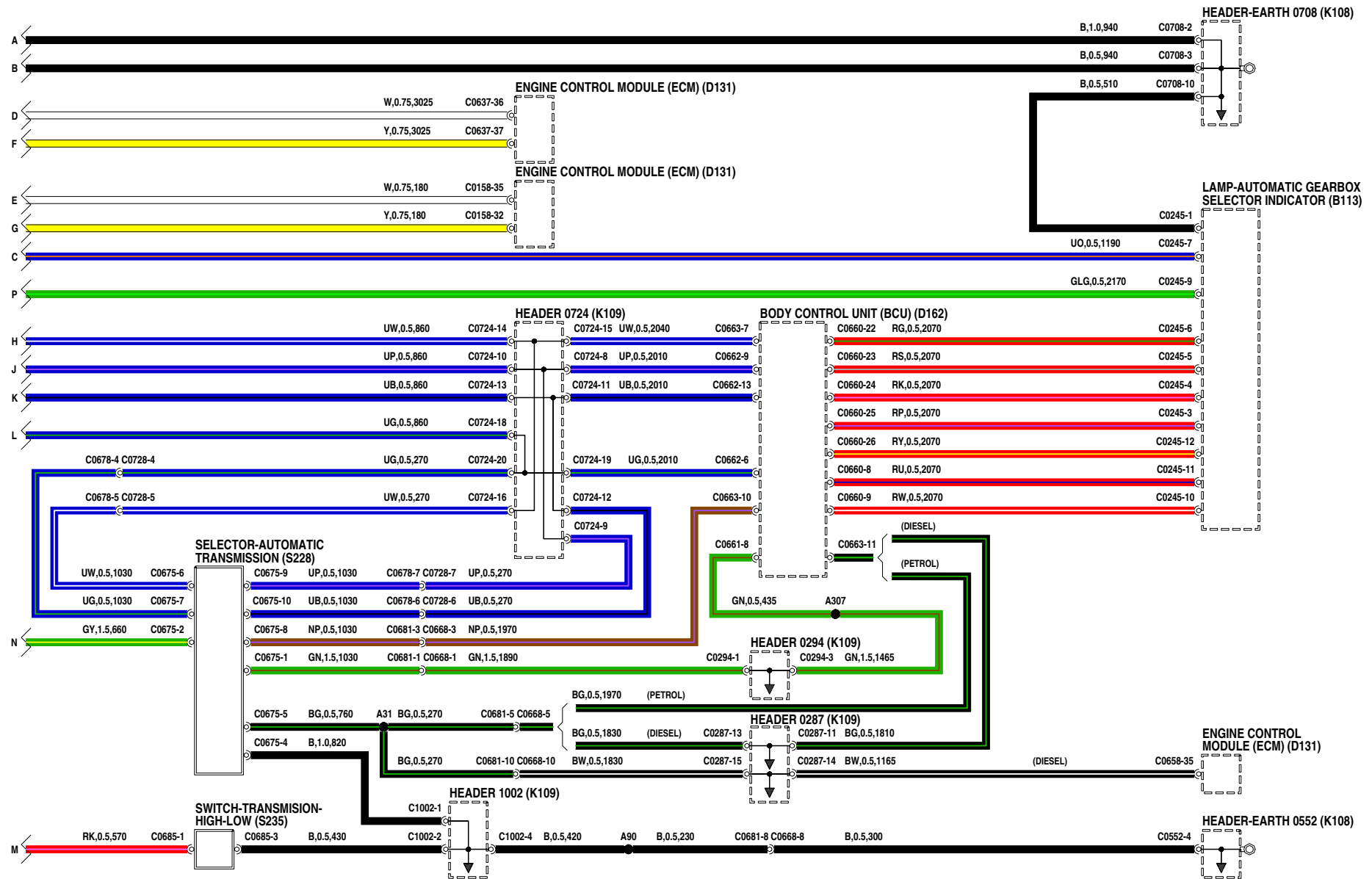




# ELECTRONIC AUTOMATIC TRANSMISSION (EAT)

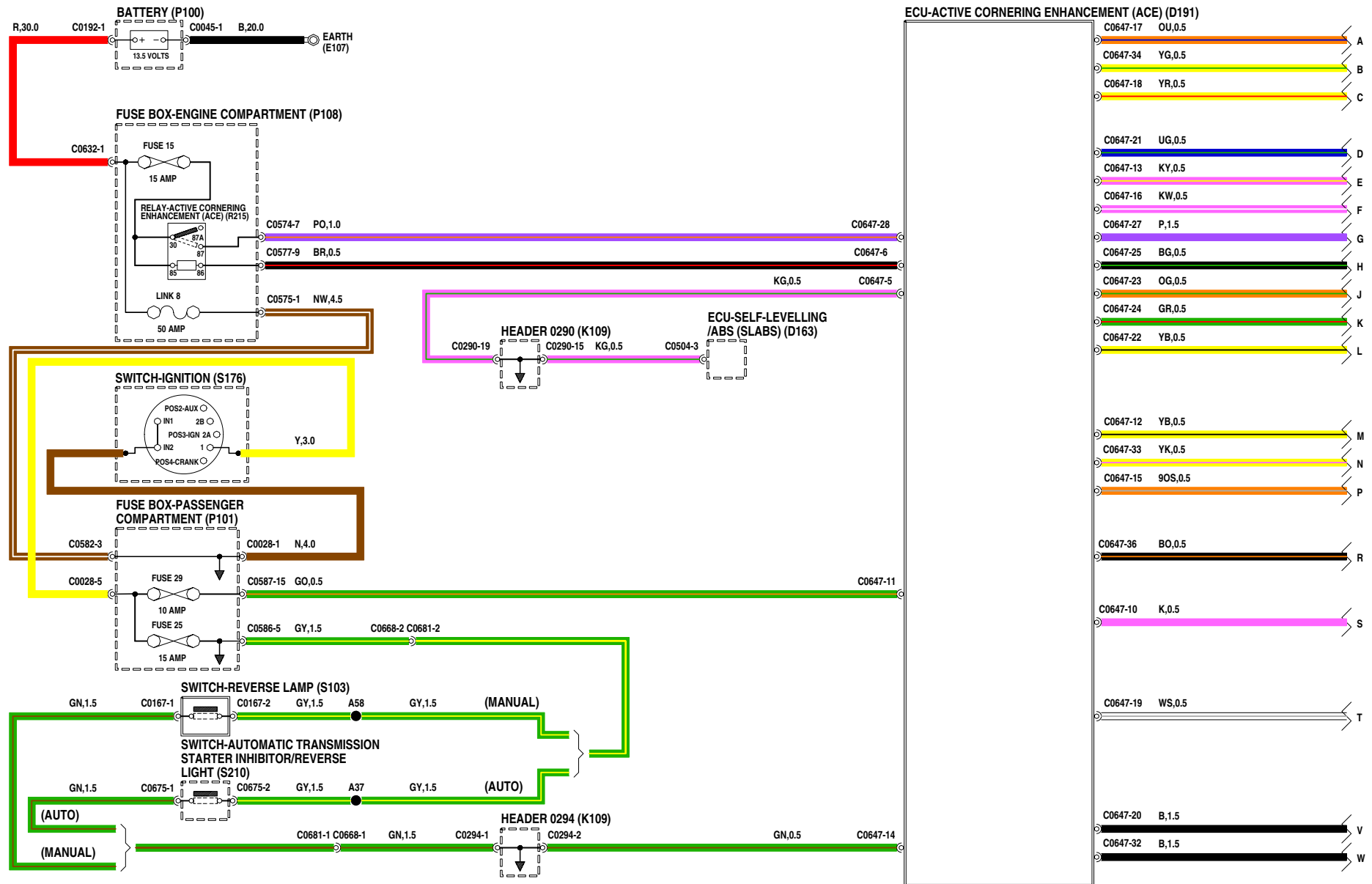


# ELECTRONIC AUTOMATIC TRANSMISSION (EAT)



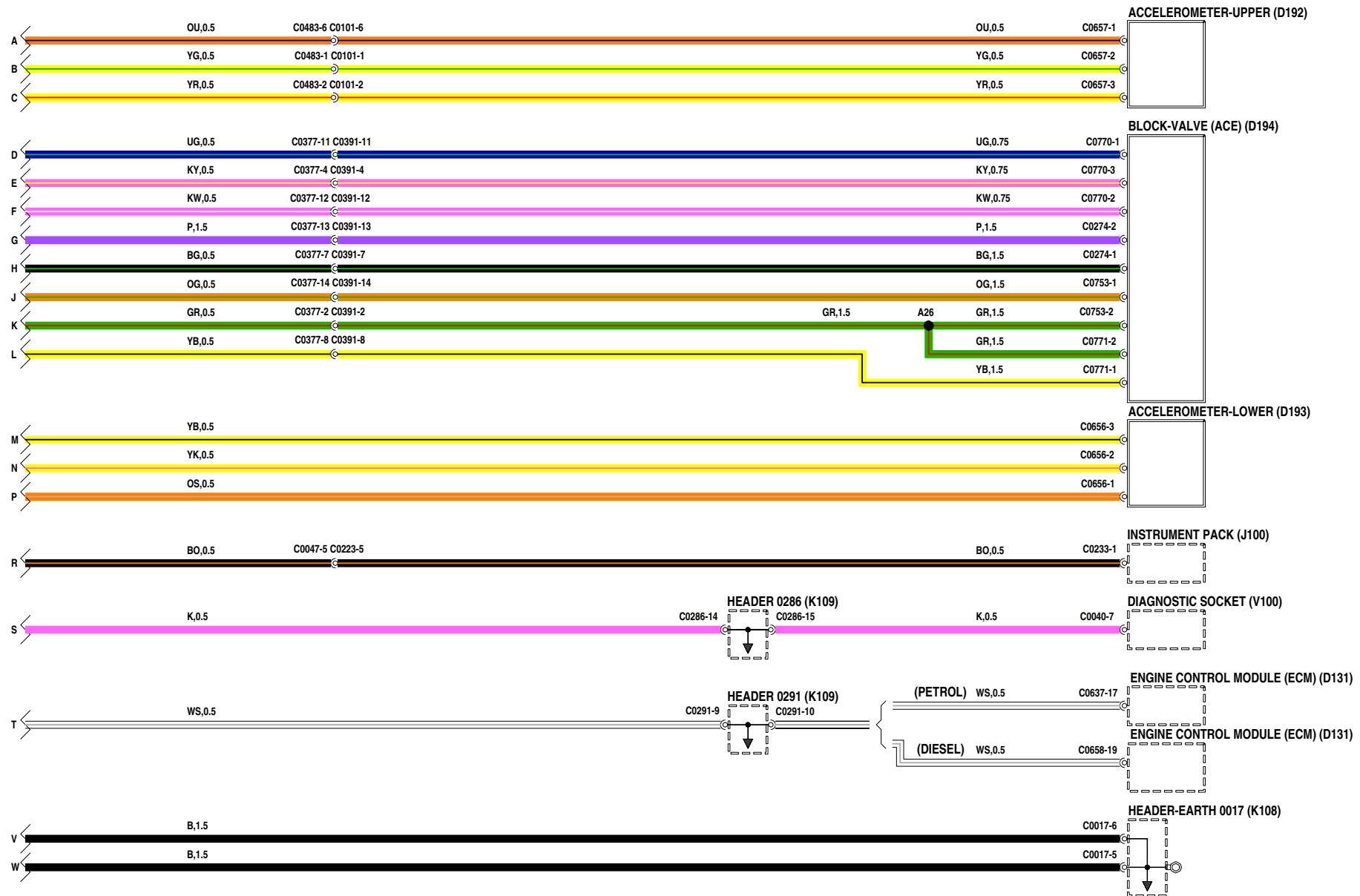
VWR108600-2of2

# ACTIVE CORNERING ENHANCEMENT (ACE)

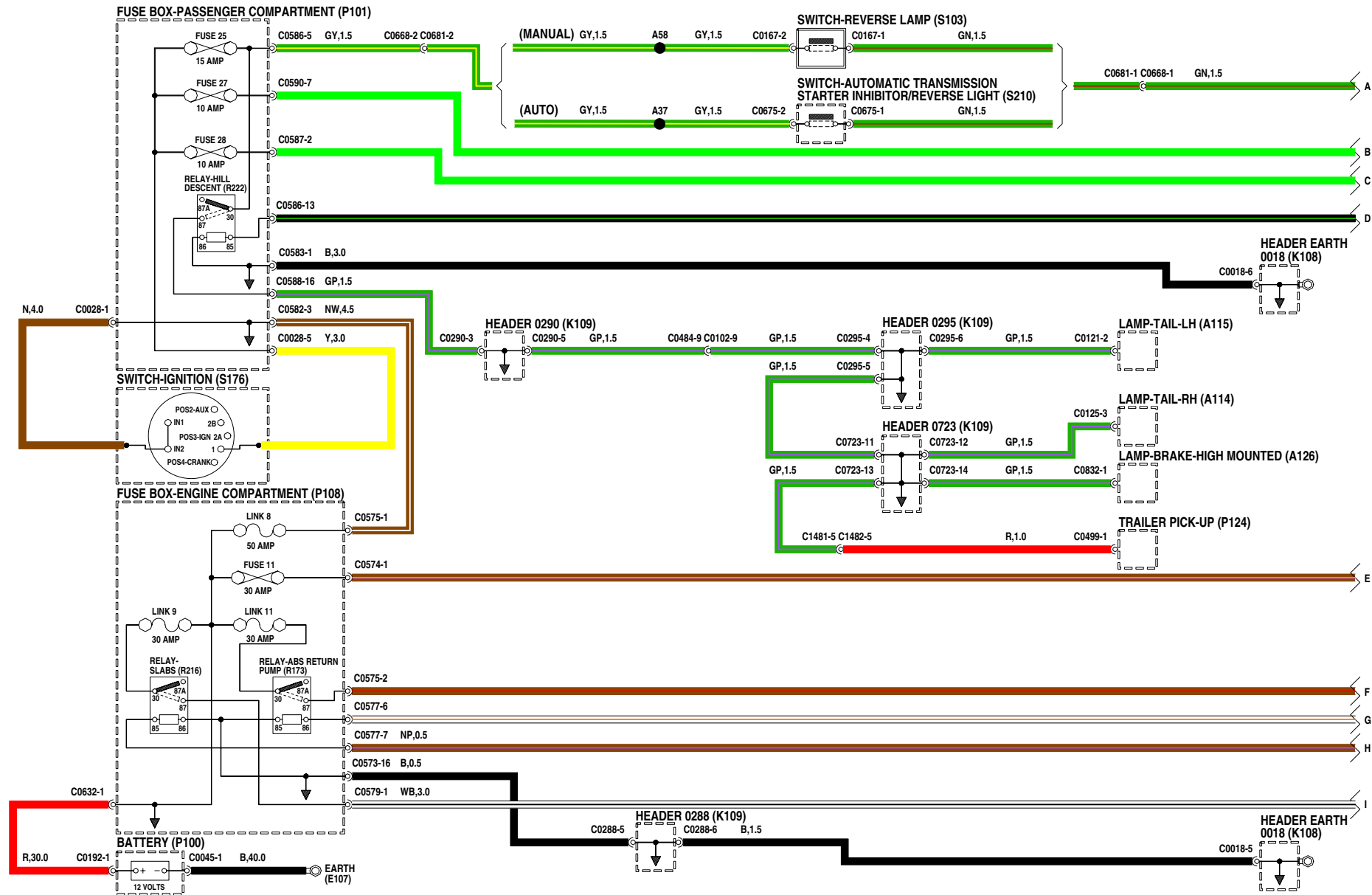


VWR108150-1a2

# ACTIVE CORNERING ENHANCEMENT (ACE)

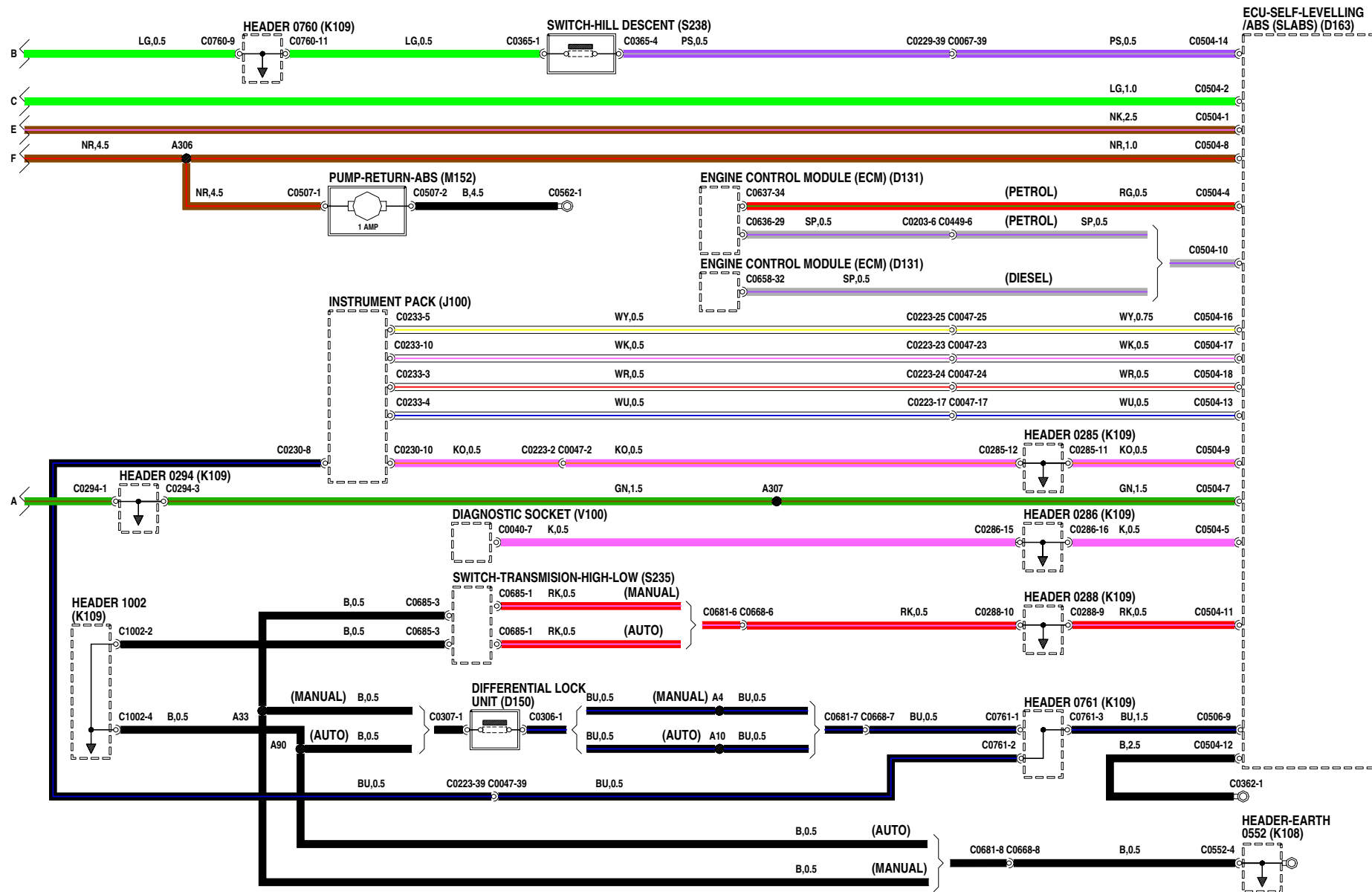


# SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



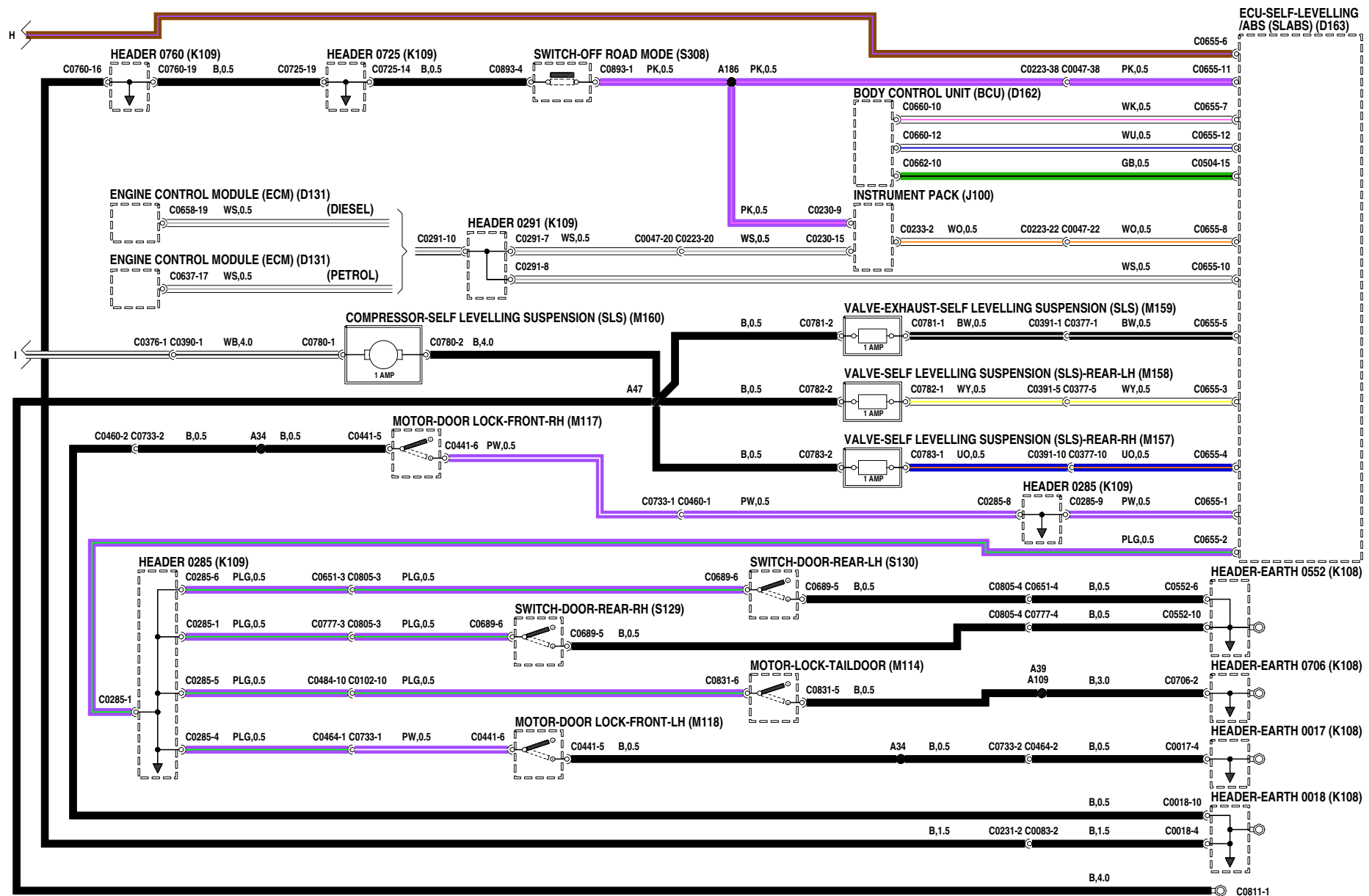
VWR108540-1of4

# SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



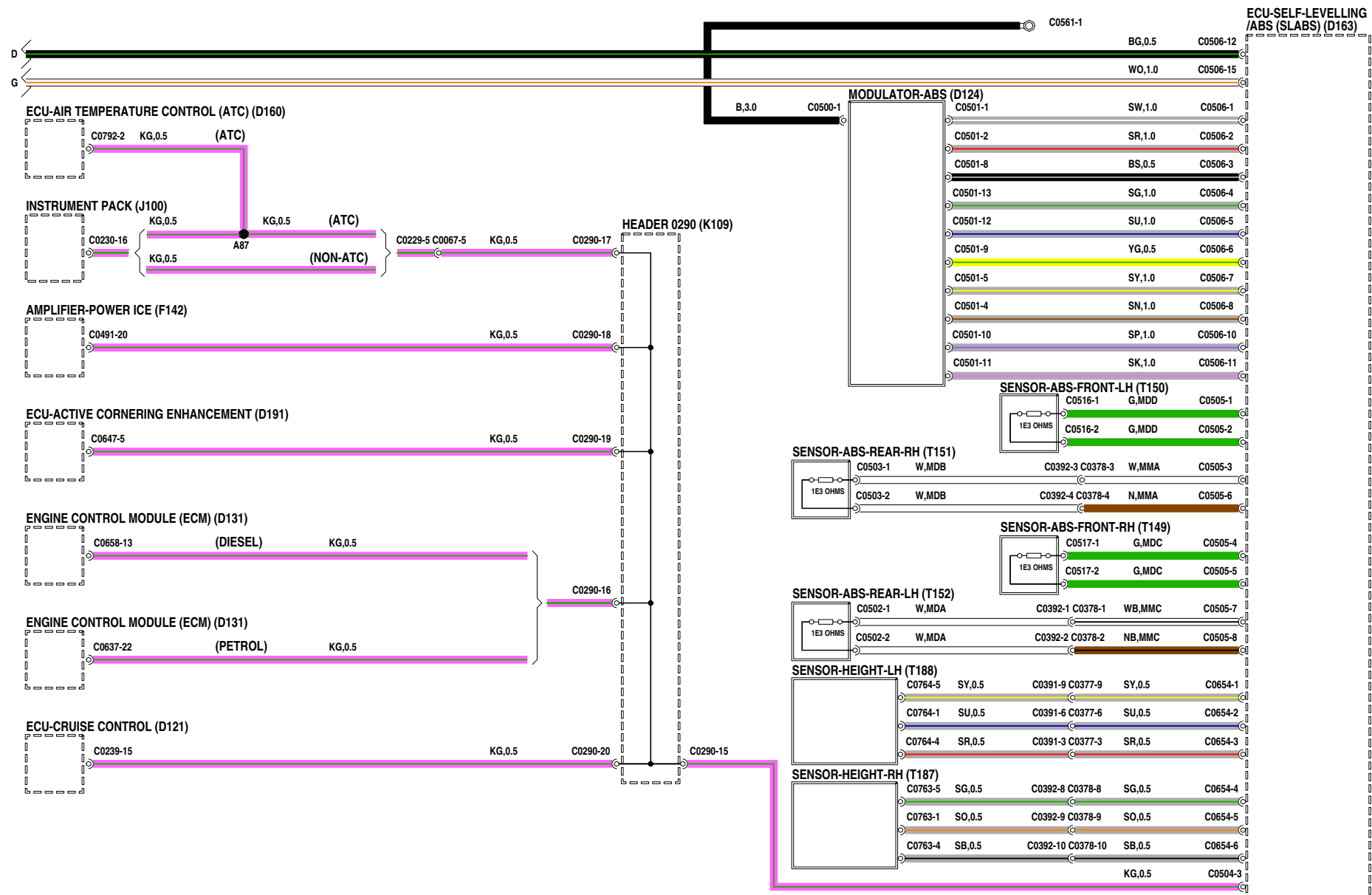
VWR108540-2x04

# SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



VWR108540-3a/4

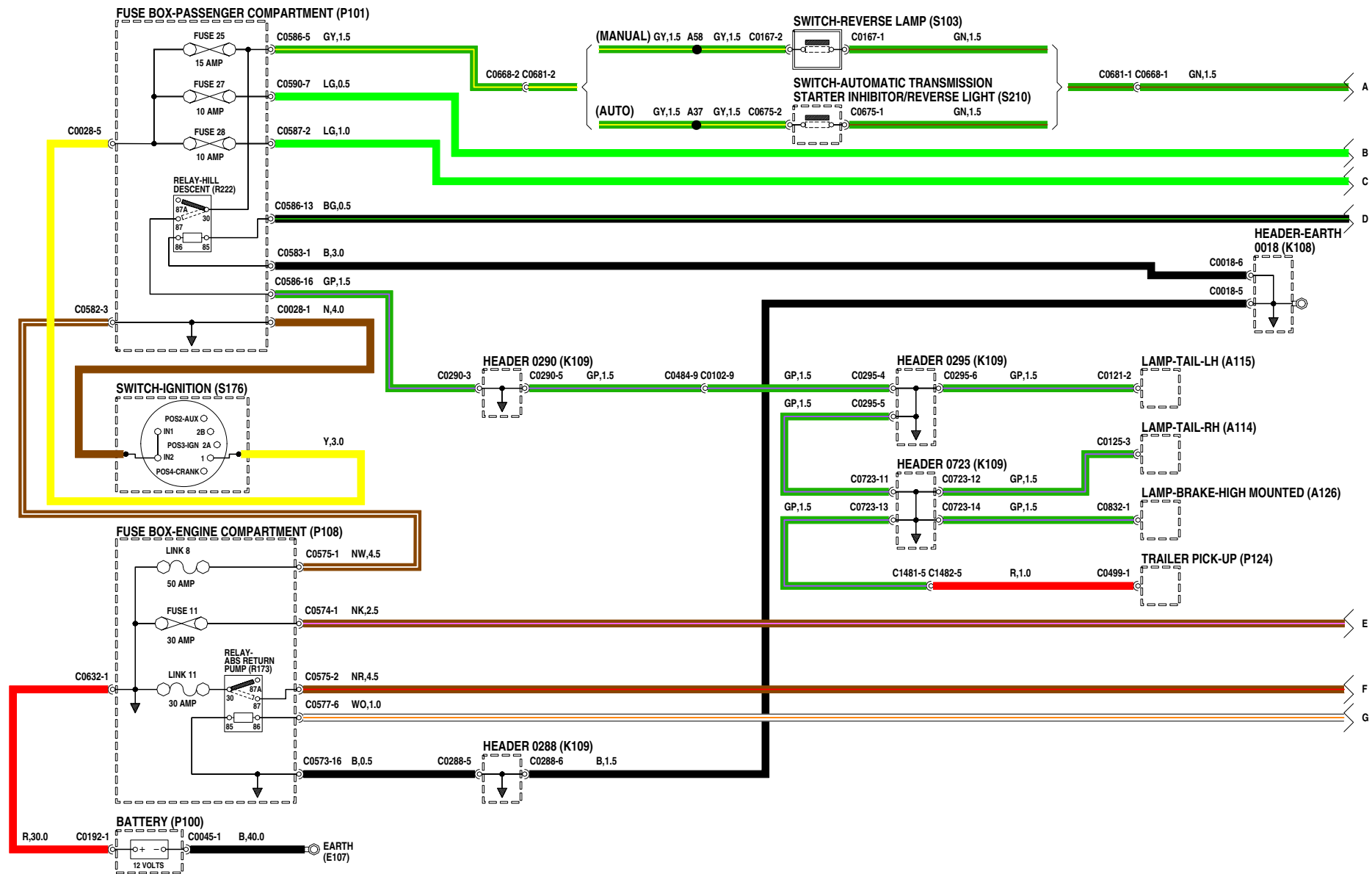
# SELF LEVELLING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



VWR108540-4a14



# ANTI-LOCK BRAKING SYSTEM (ABS)

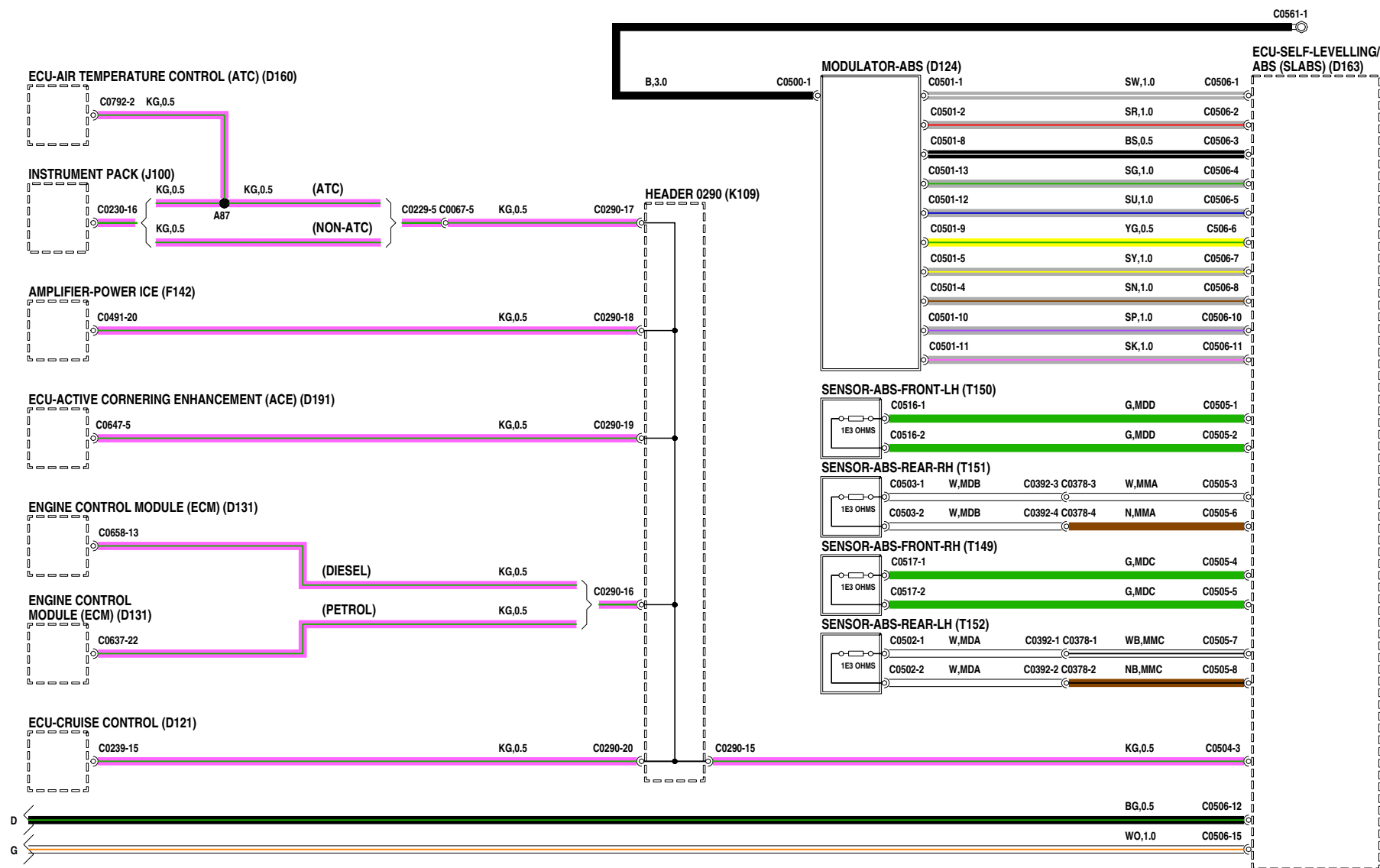


VWR108100-1a03

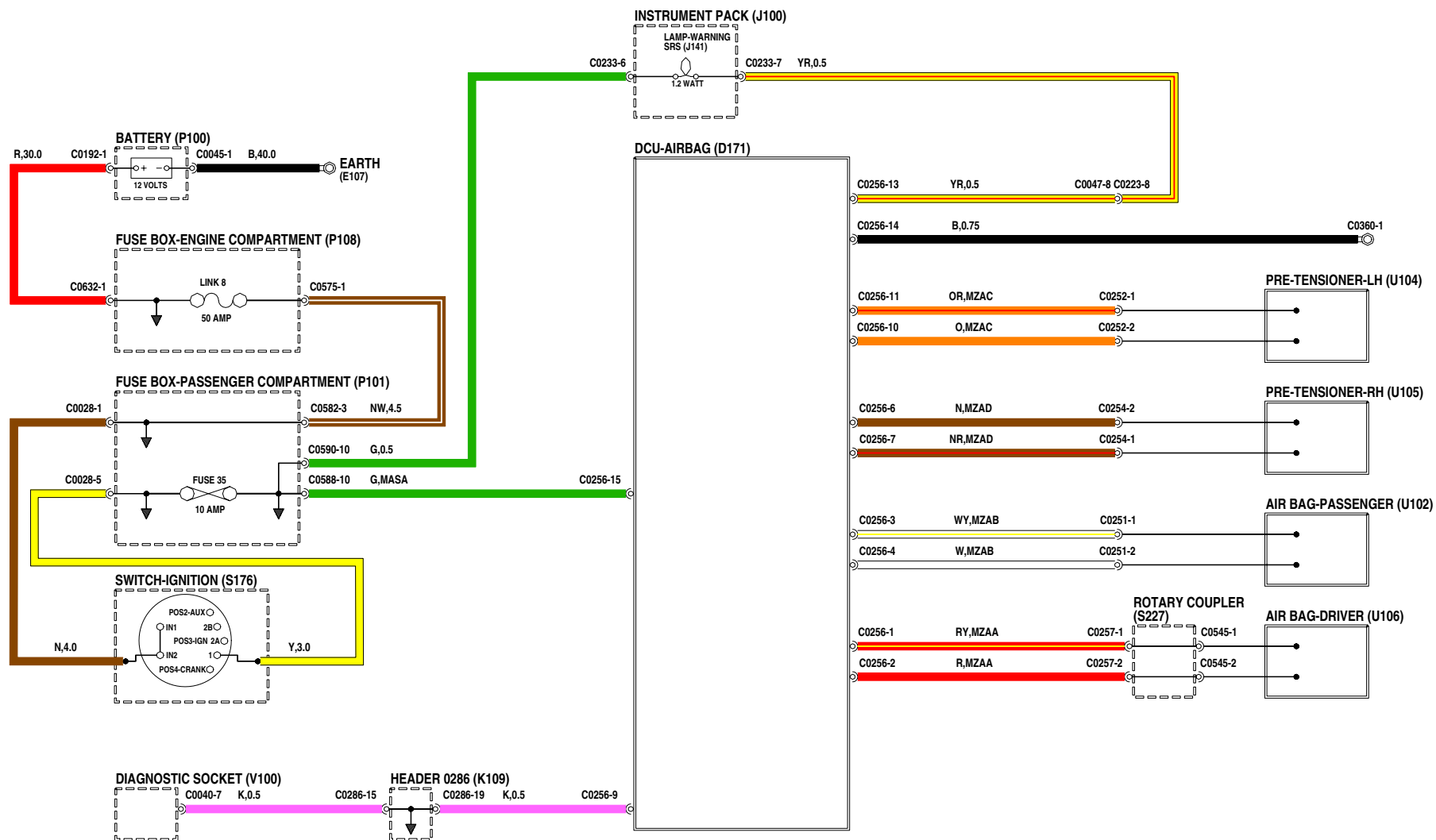
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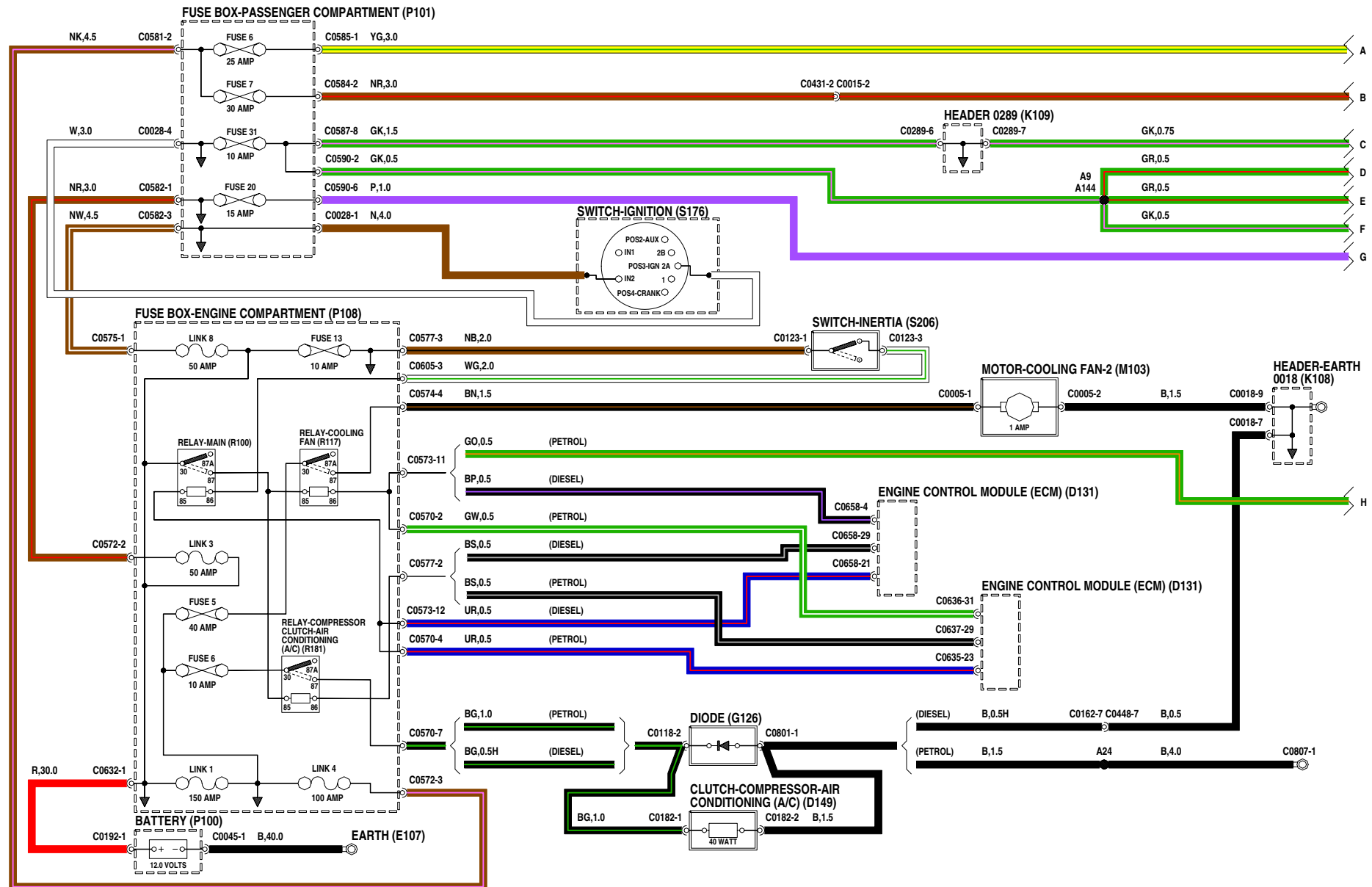
# ANTI-LOCK BRAKING SYSTEM (ABS)



VWR108100-3a/3

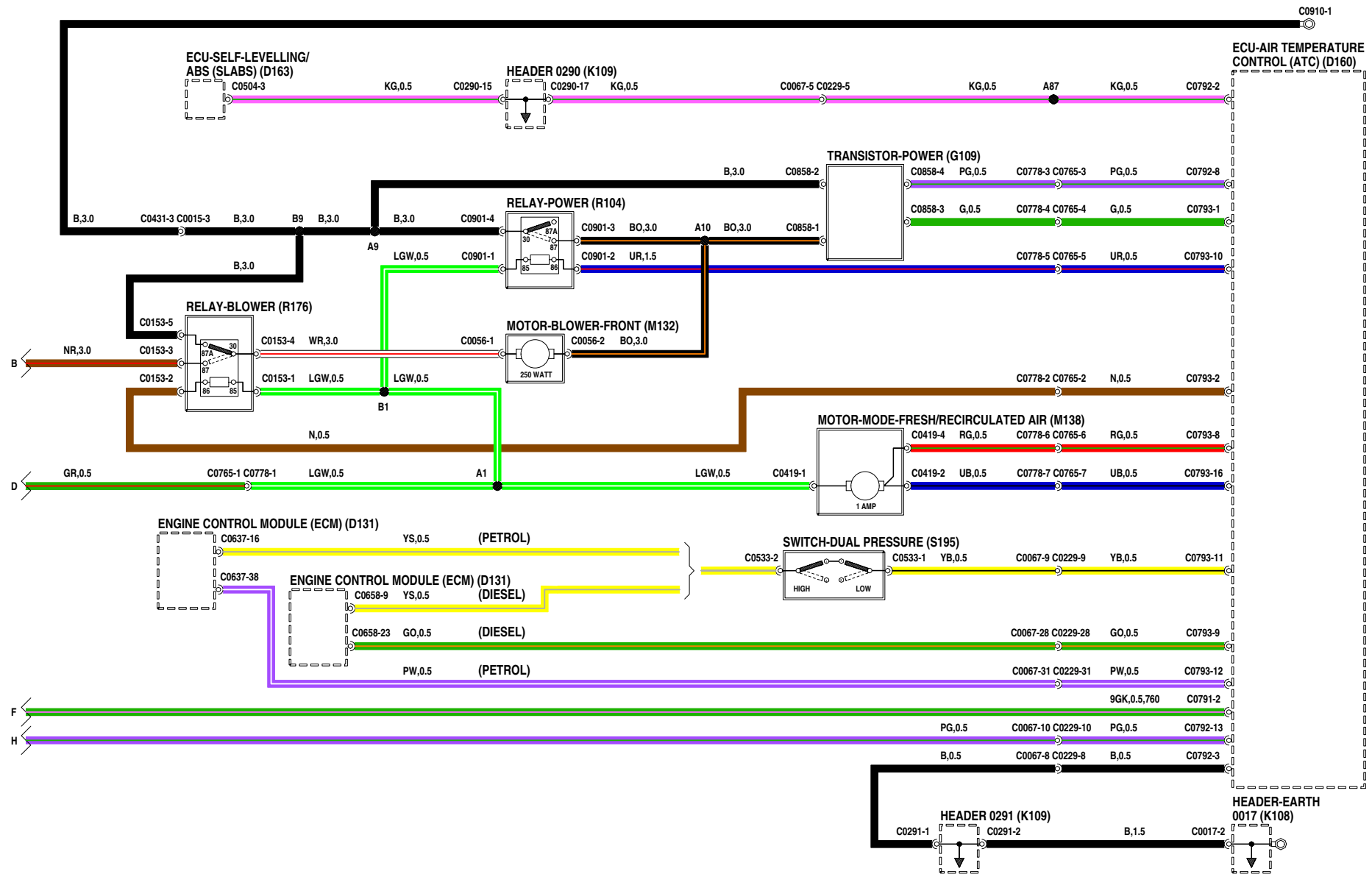


# AIR CONDITIONING (A/C)



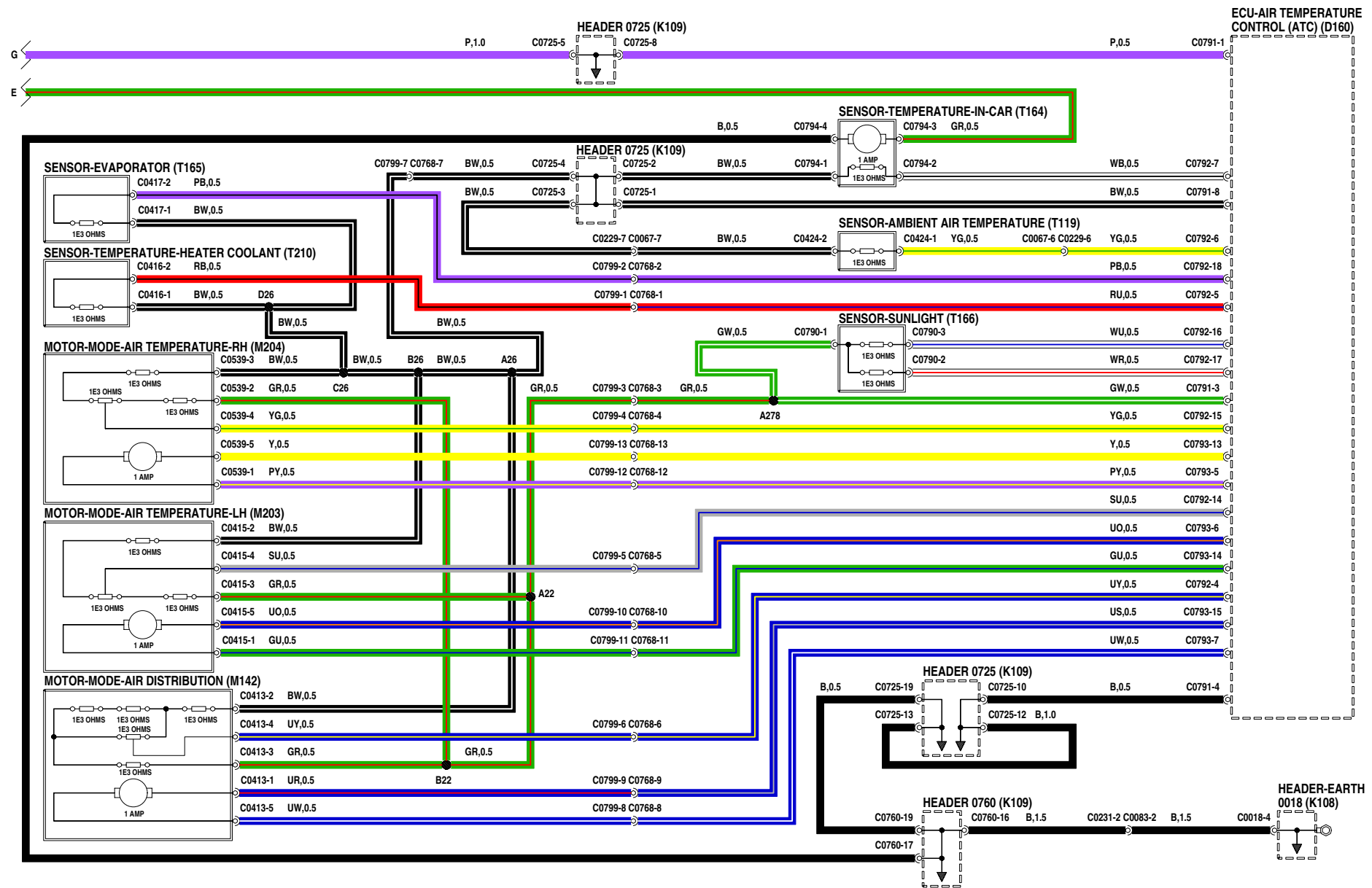
VWR108130-1a4

# AIR CONDITIONING (A/C)



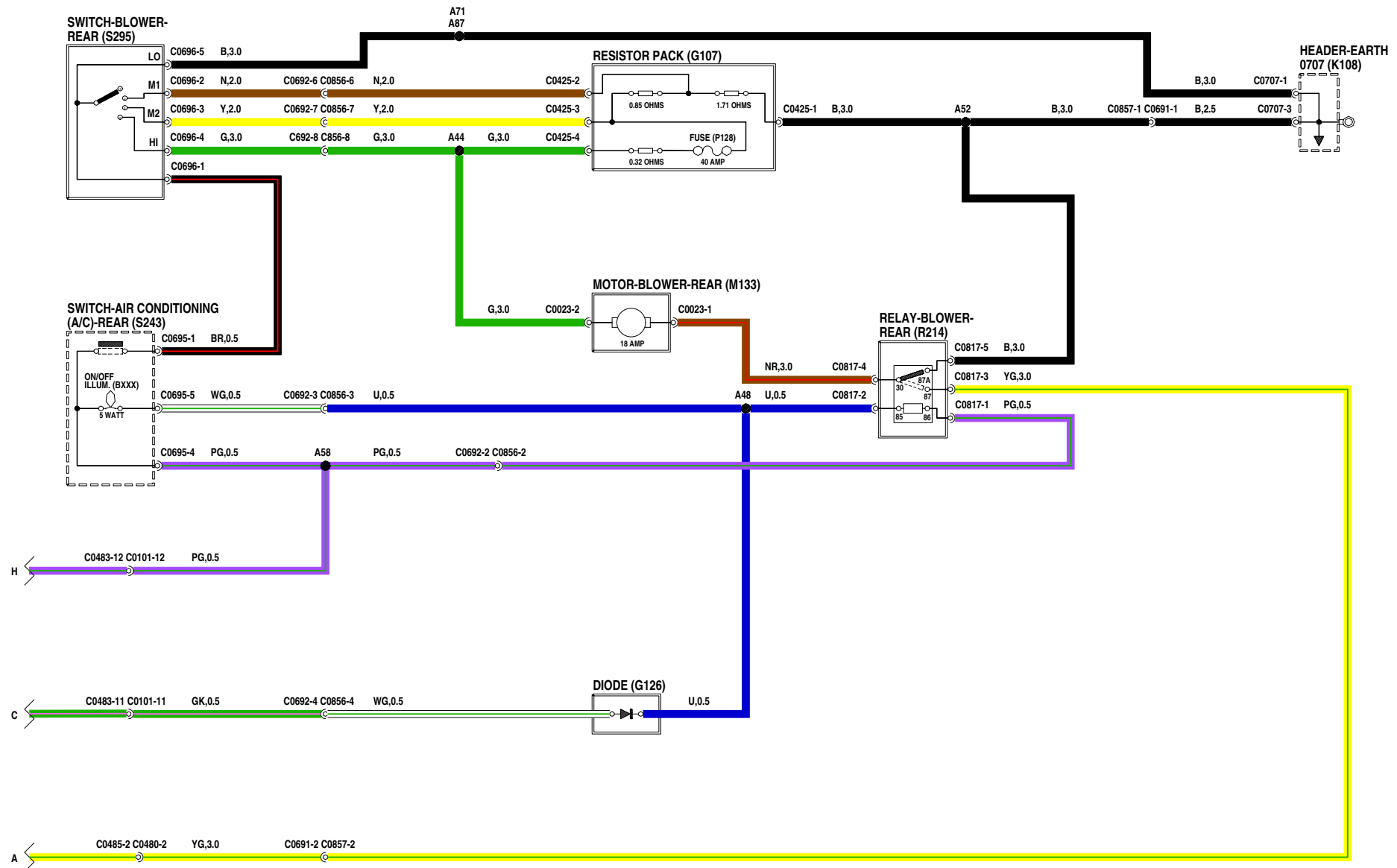
VWR108130-2x04

# AIR CONDITIONING (A/C)



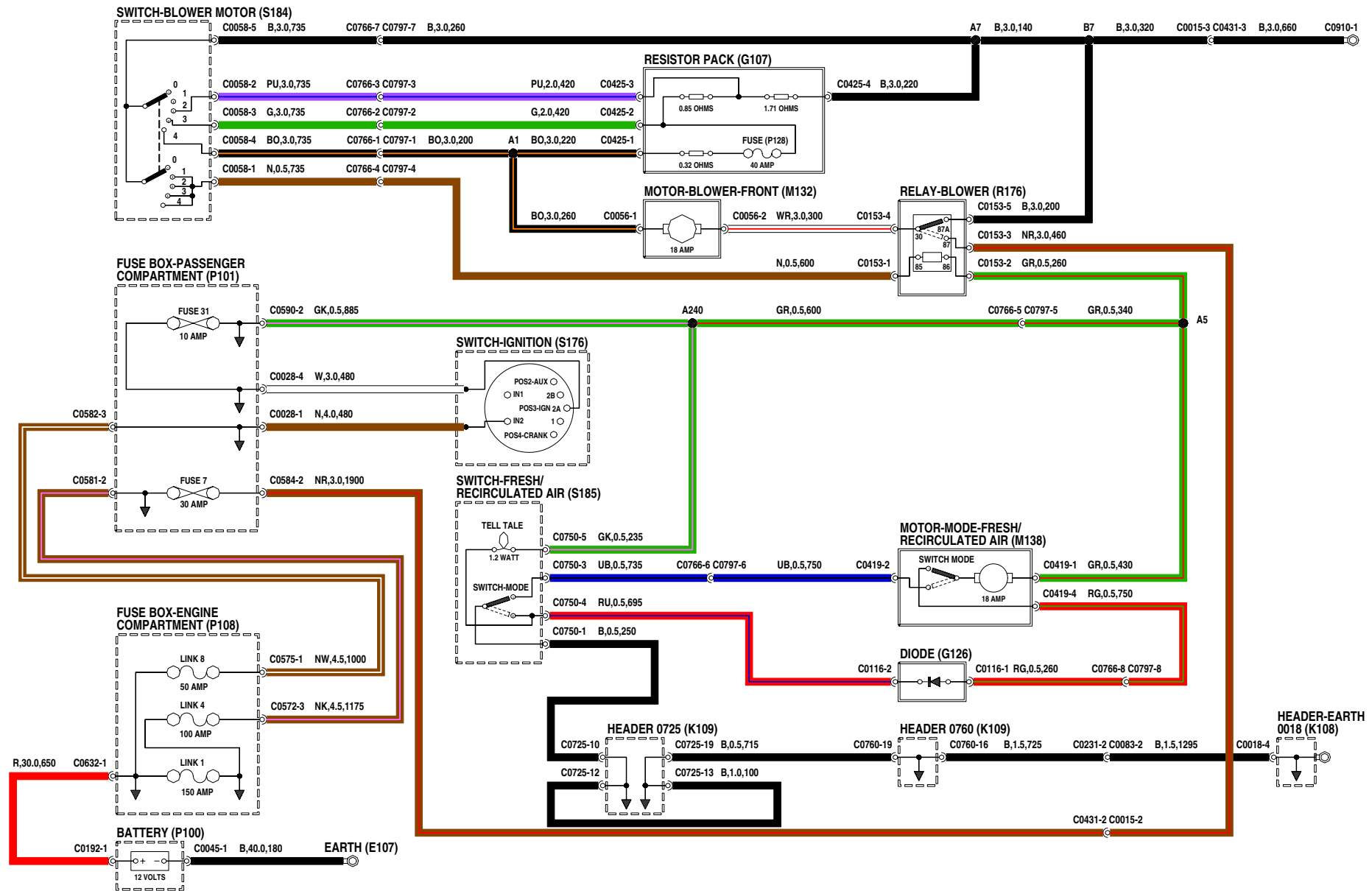
VWR108130-3of4

# AIR CONDITIONING (A/C)



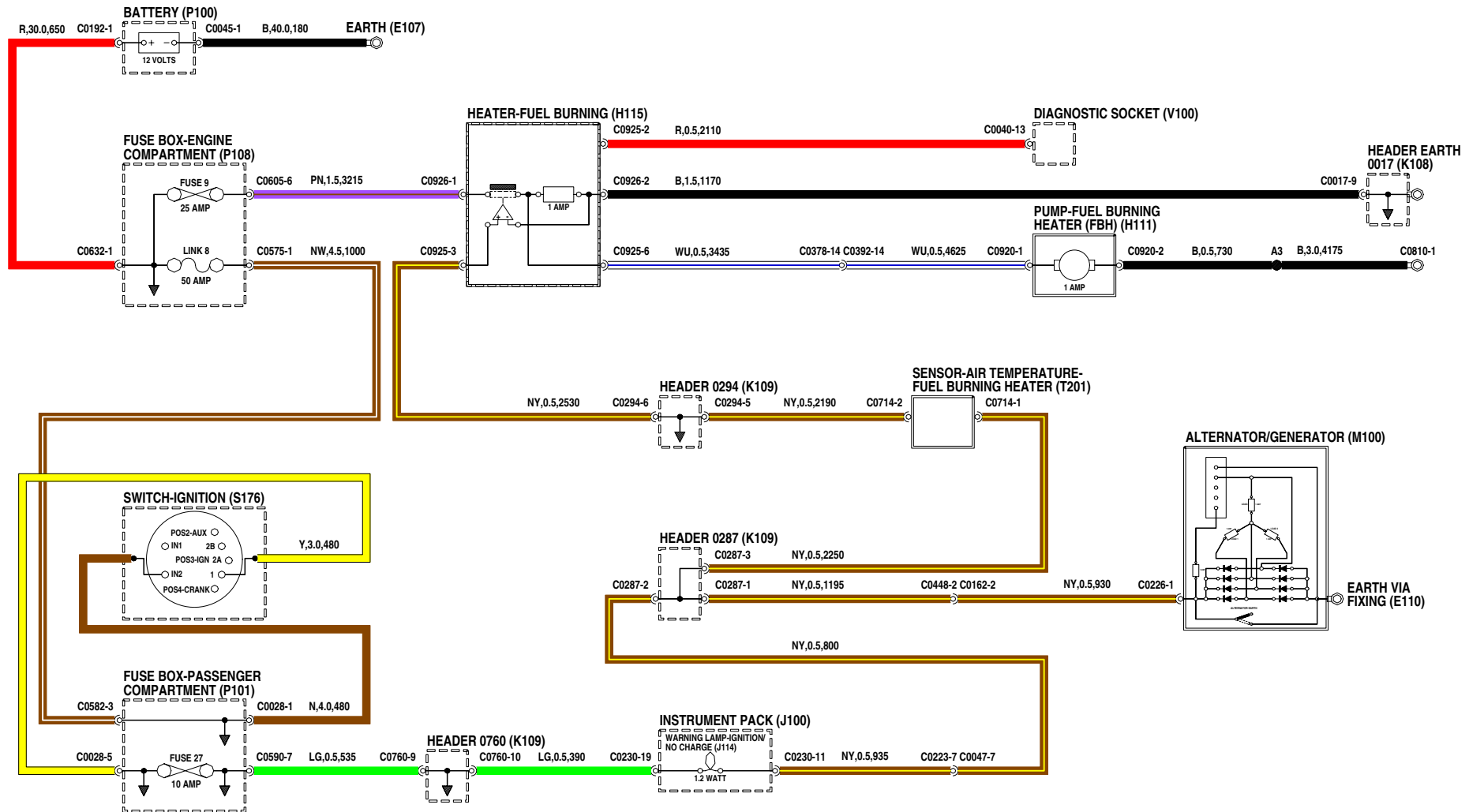


# HEATER BLOWER

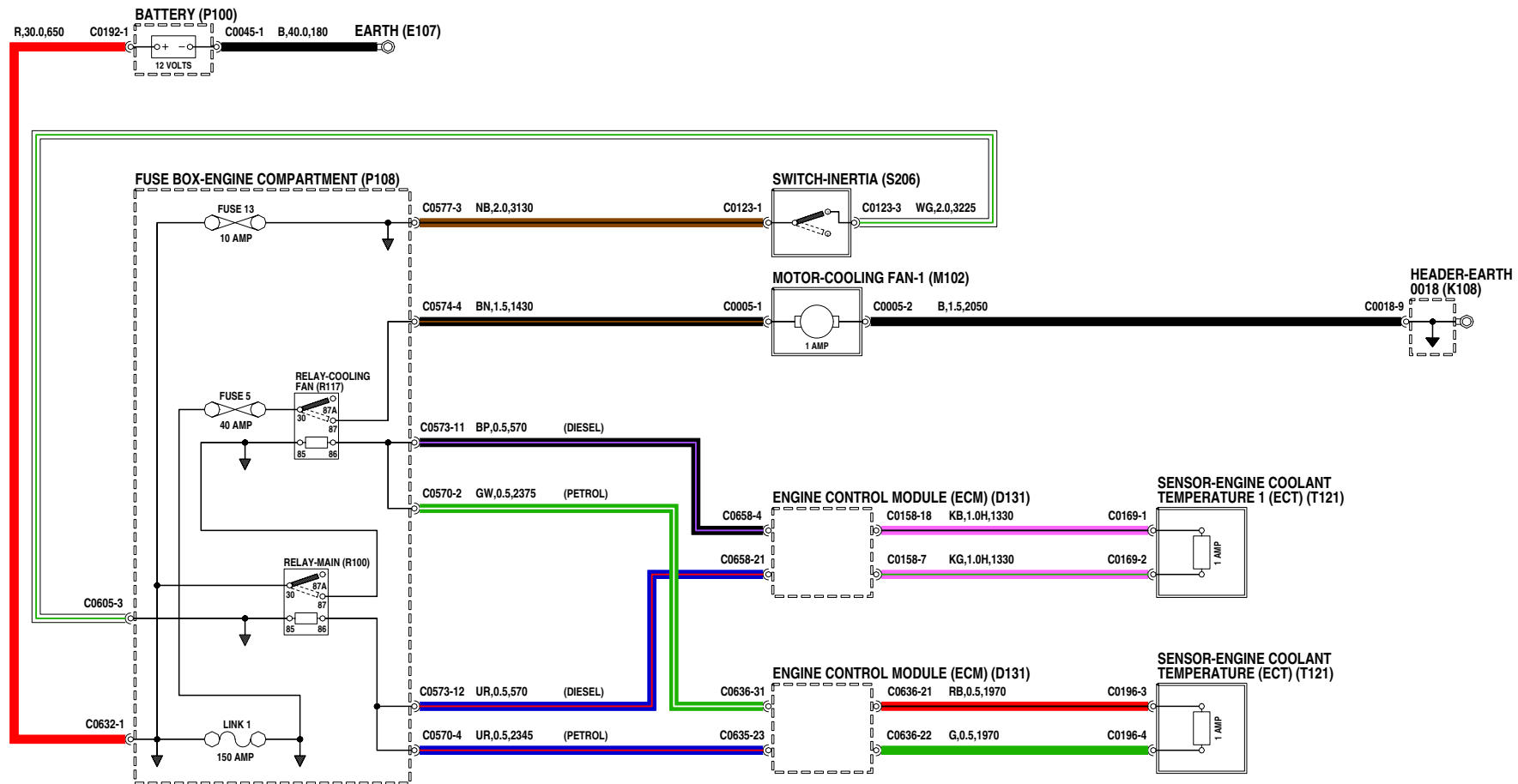


VWR108400-1of1

# FUEL BURNING HEATER (FBH)

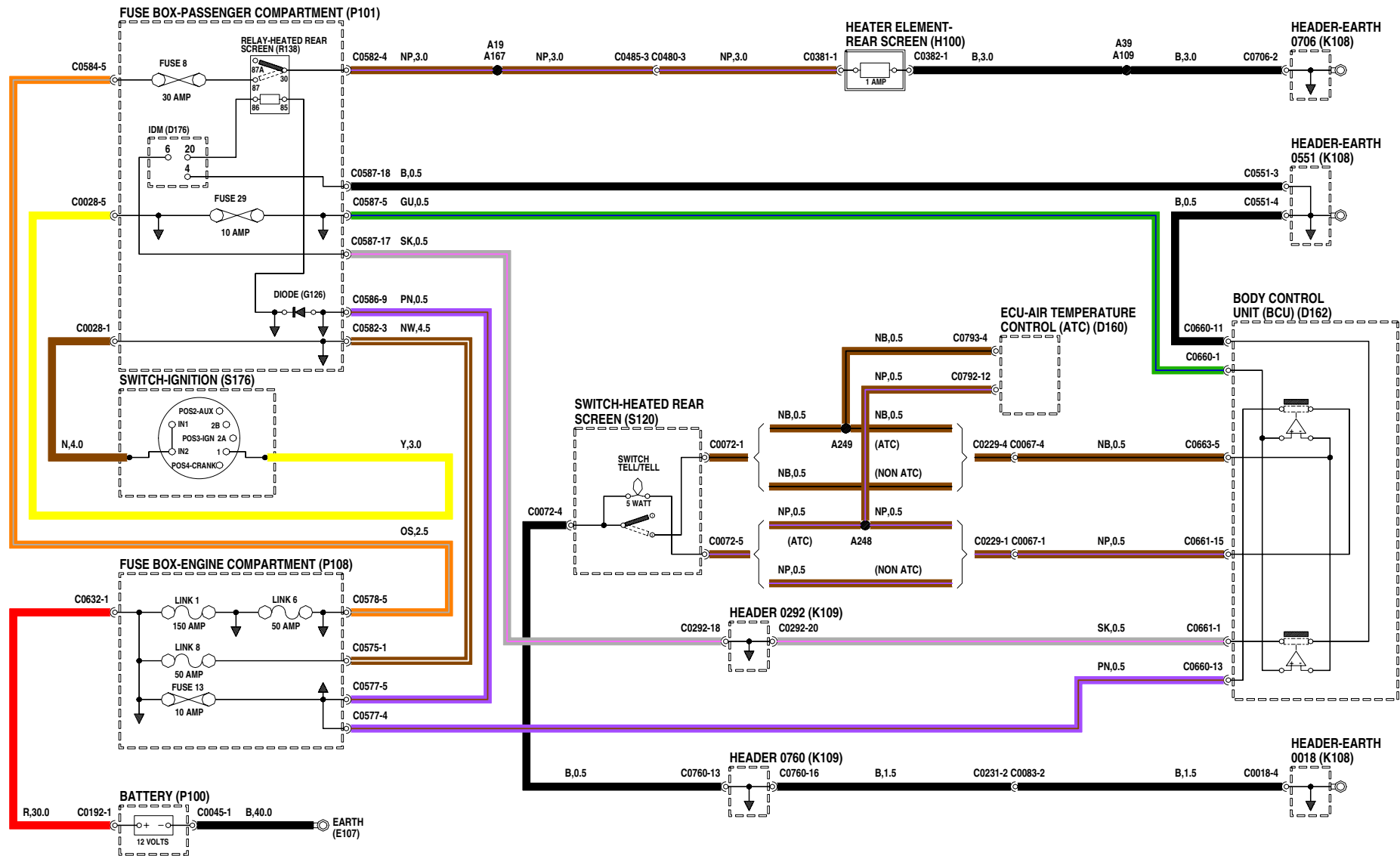


# COOLING FANS

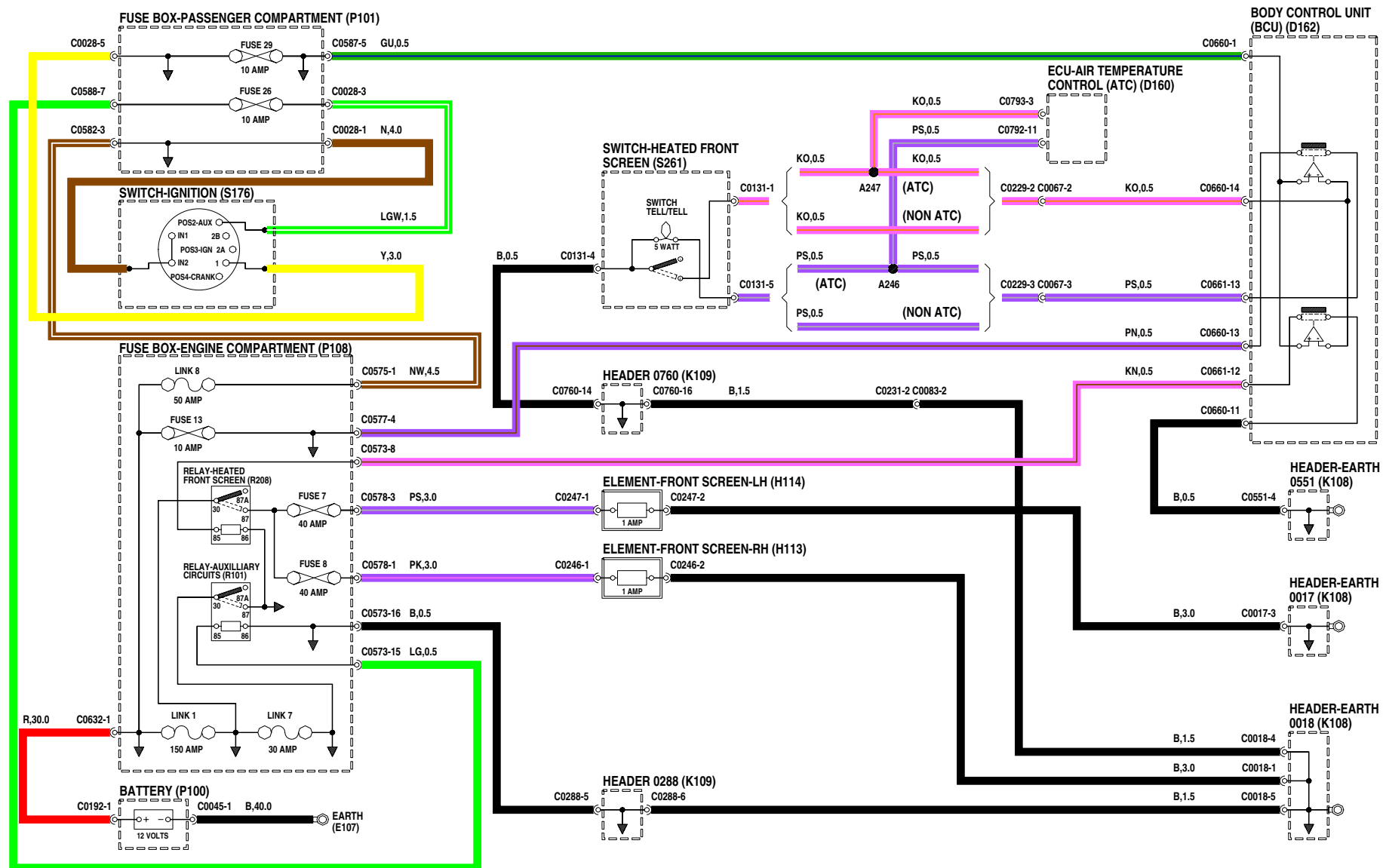




# HEATED REAR WINDOW (HRW)

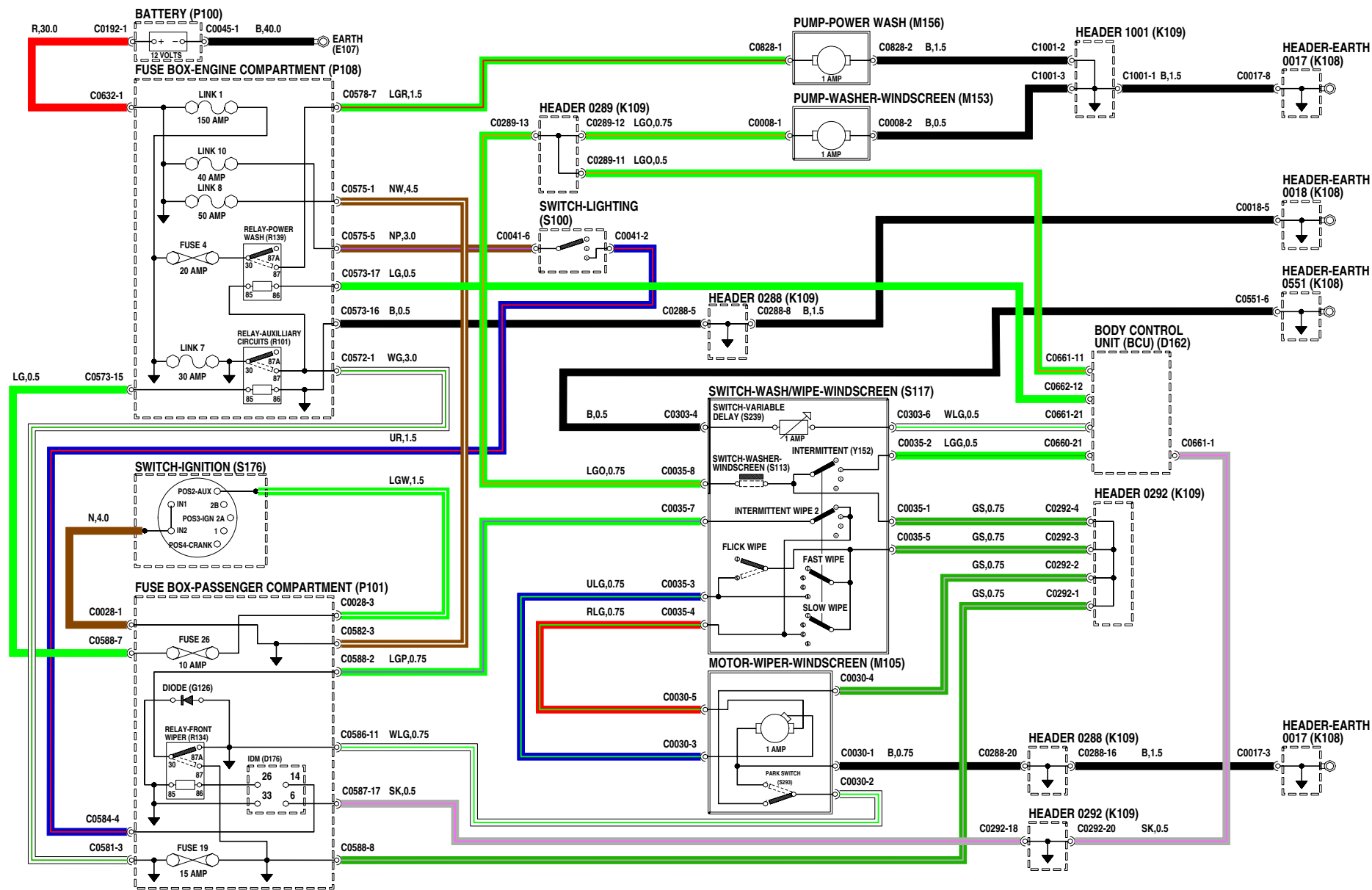


# HEATED FRONT SCREEN



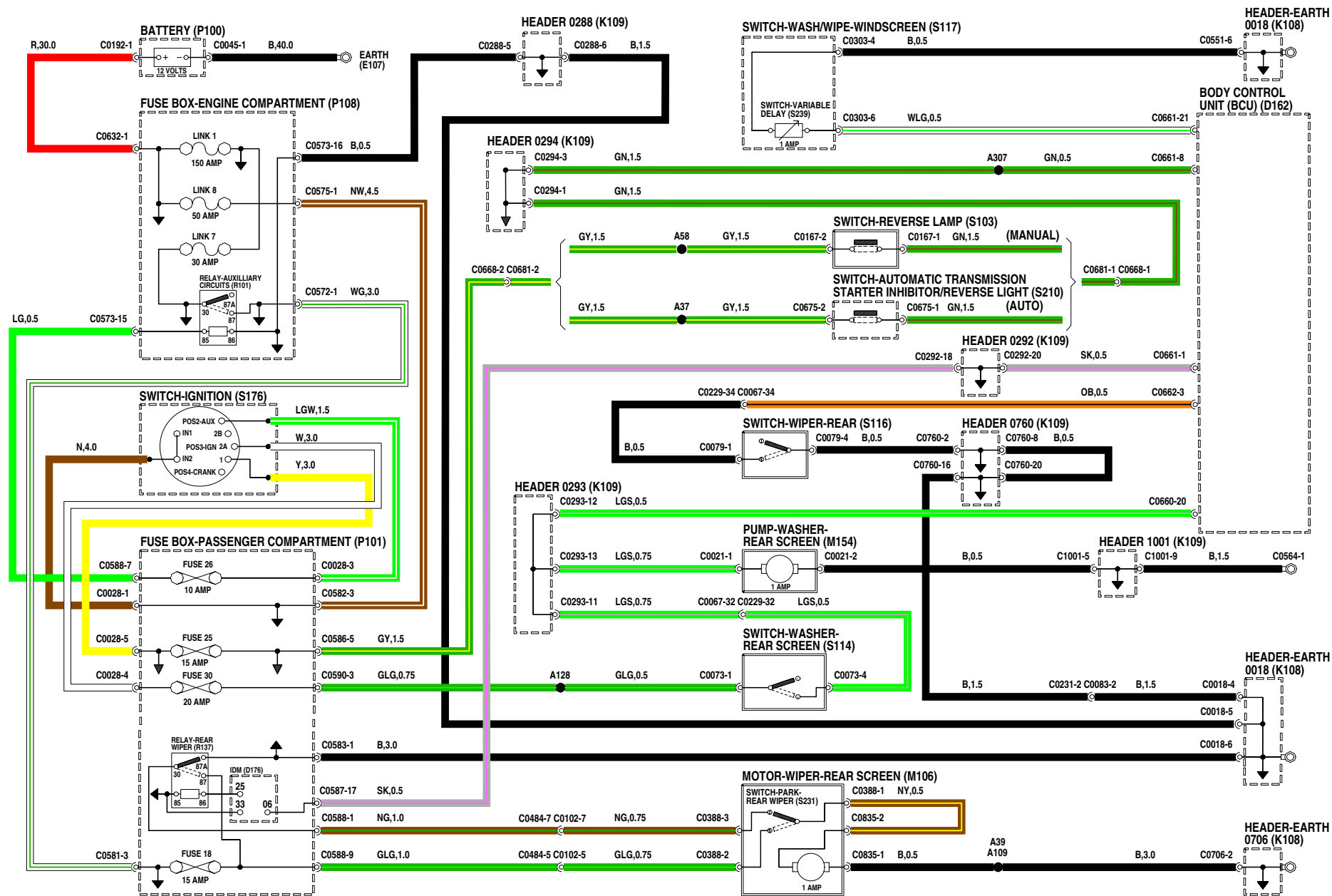
VWR108380-1a1

# WIPERS AND WASHERS FRONT



VWR108650-1of1

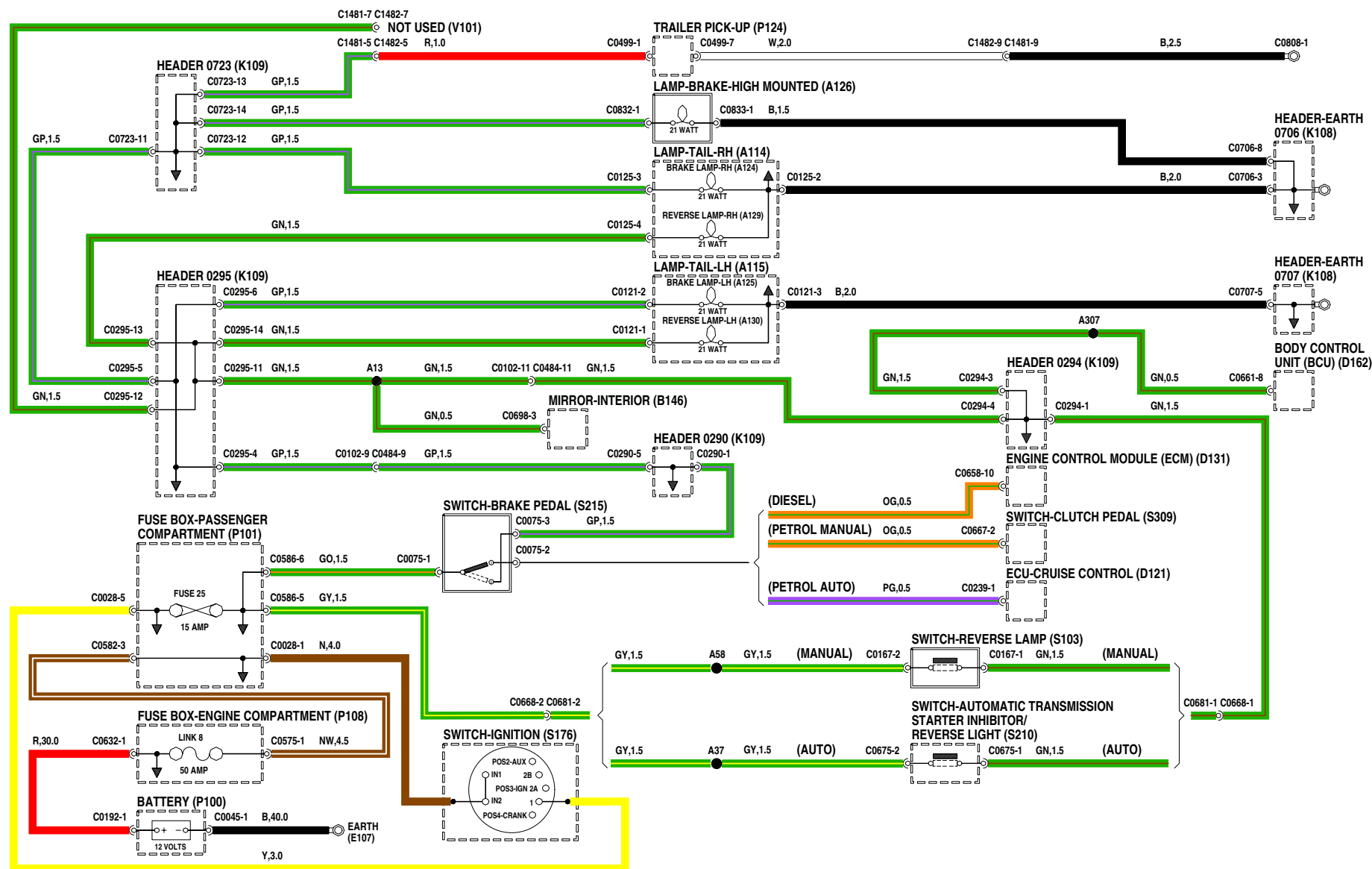
# WIPERS AND WASHERS REAR



VWR108660-1of1

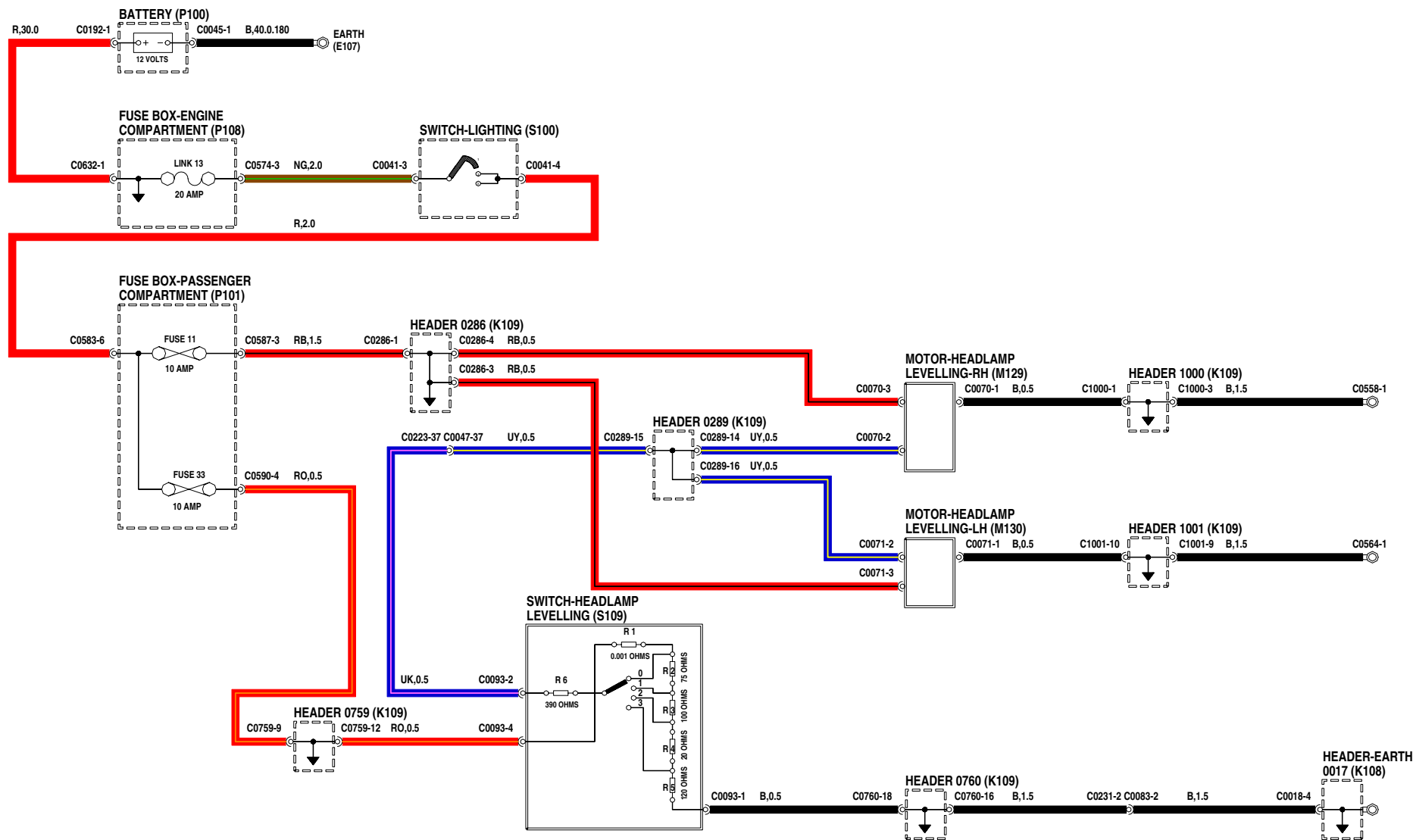


# EXTERIOR LAMPS BRAKE AND REVERSE LAMPS



# EXTERIOR LAMPS

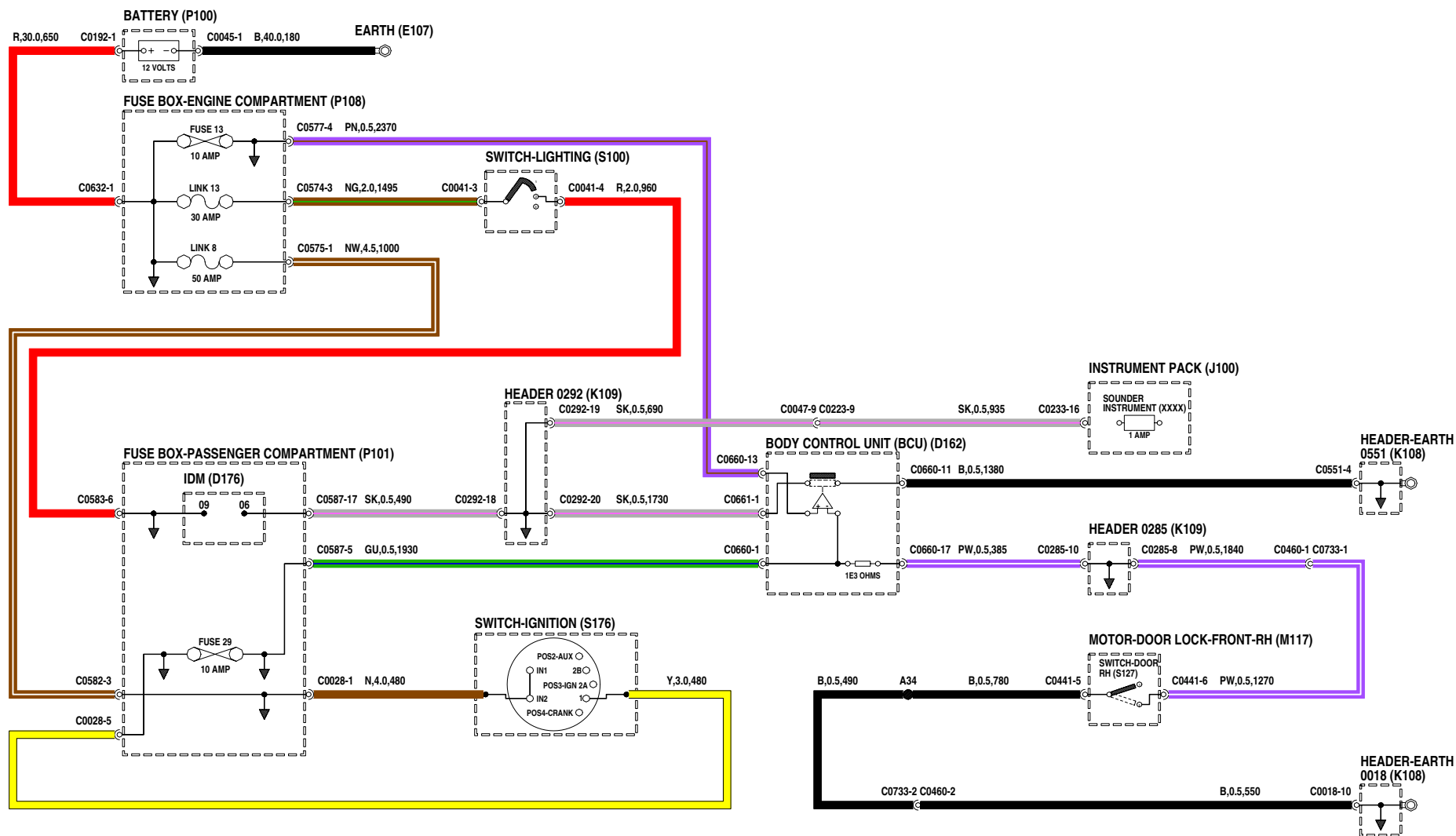
## HEADLAMP LEVELLING



VWR108370-1of1

# EXTERIOR LAMPS

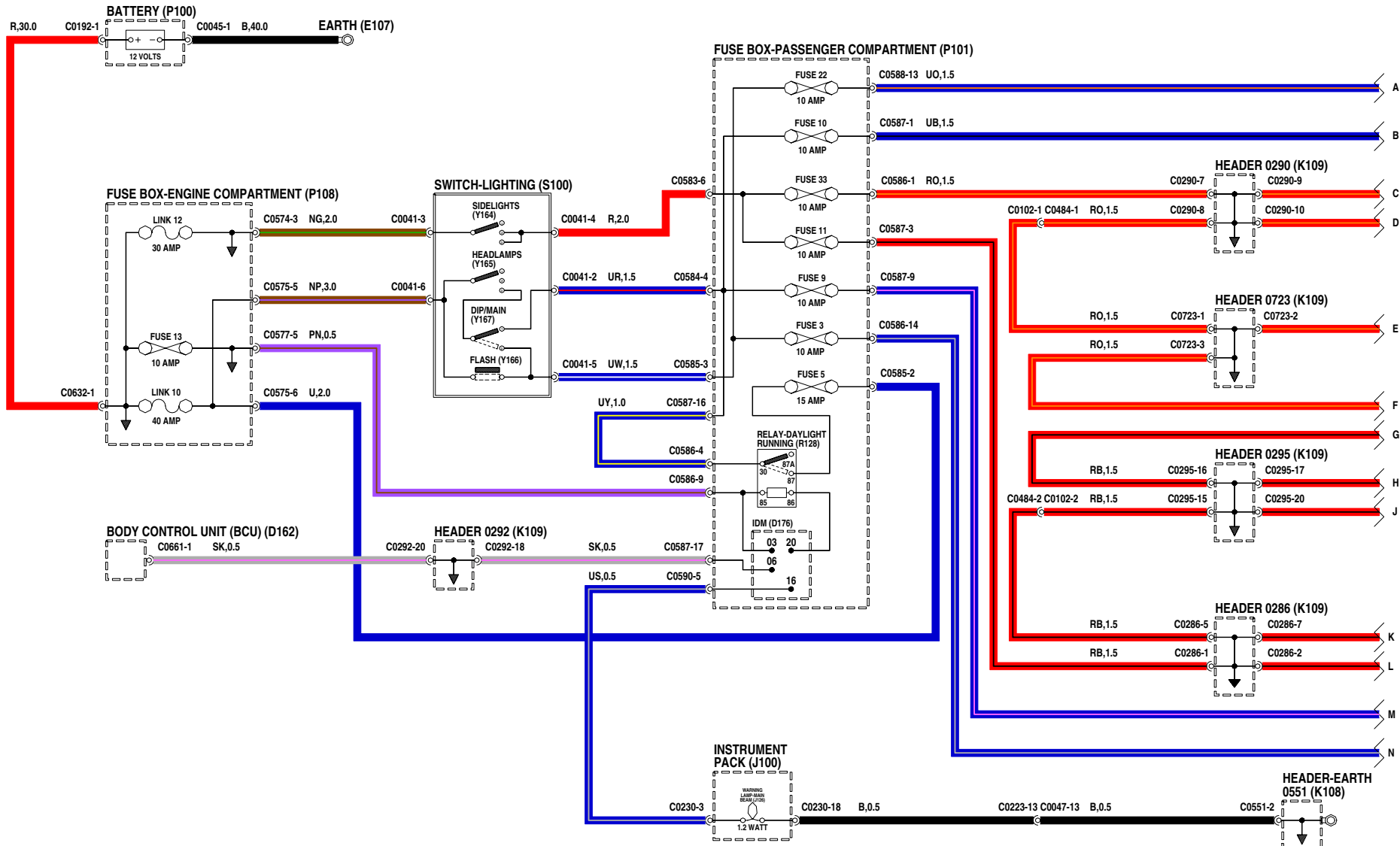
## LIGHTS ON ALARM





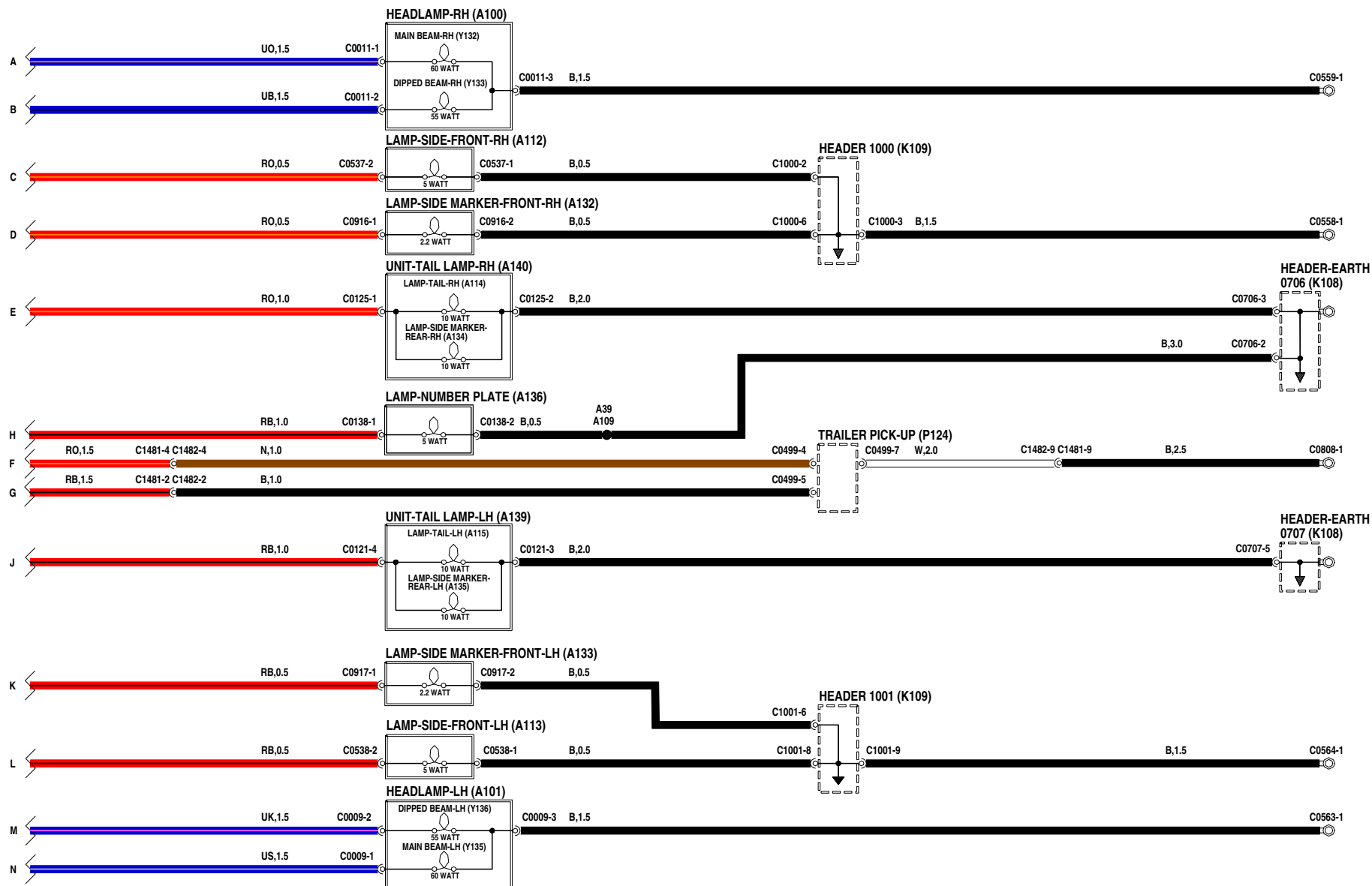
## EXTERIOR LAMPS

### HEAD, SIDE AND TAIL LAMPS



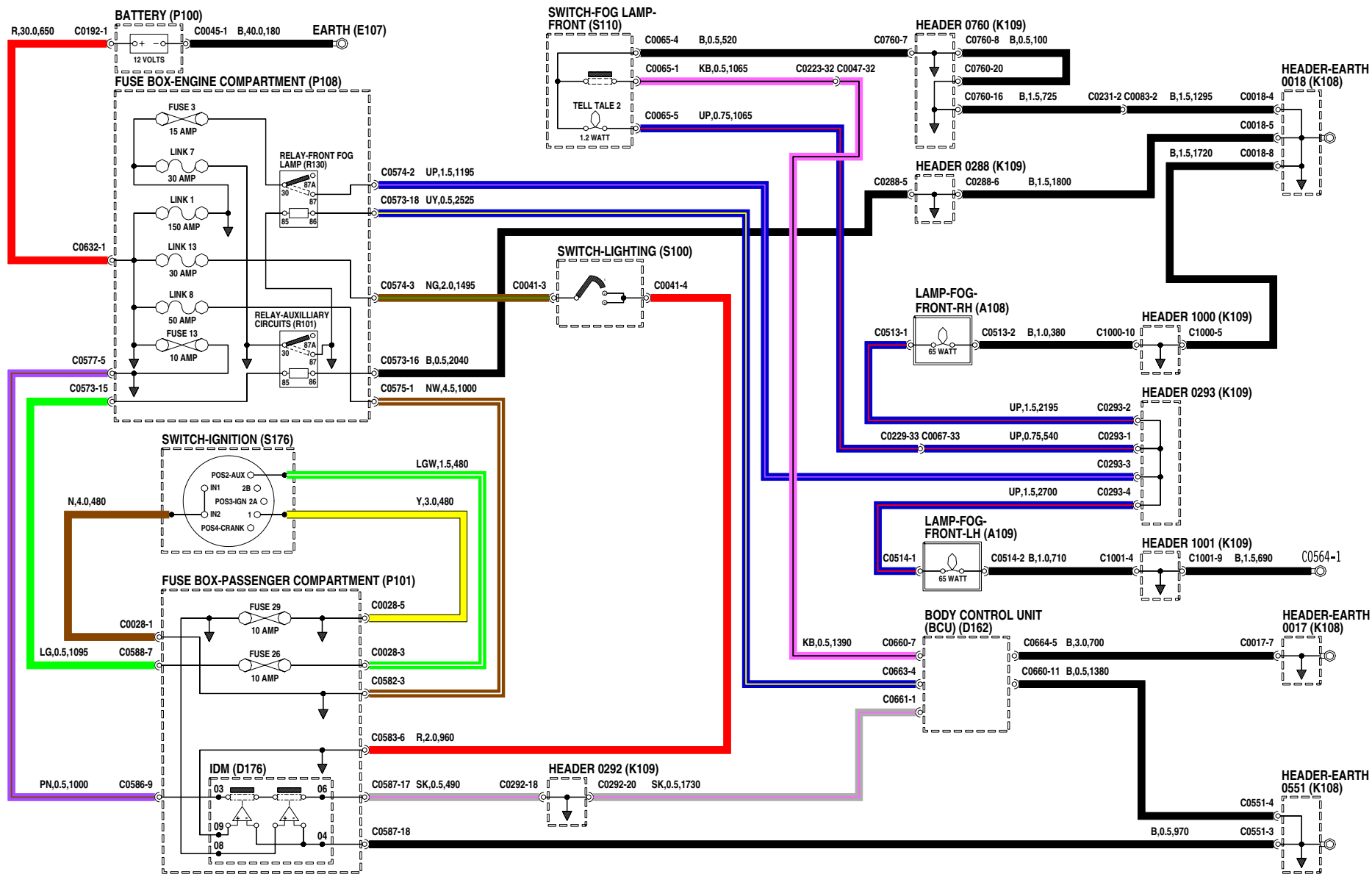
# EXTERIOR LAMPS

## HEAD, SIDE AND TAIL LAMPS



VWR108330-2x2

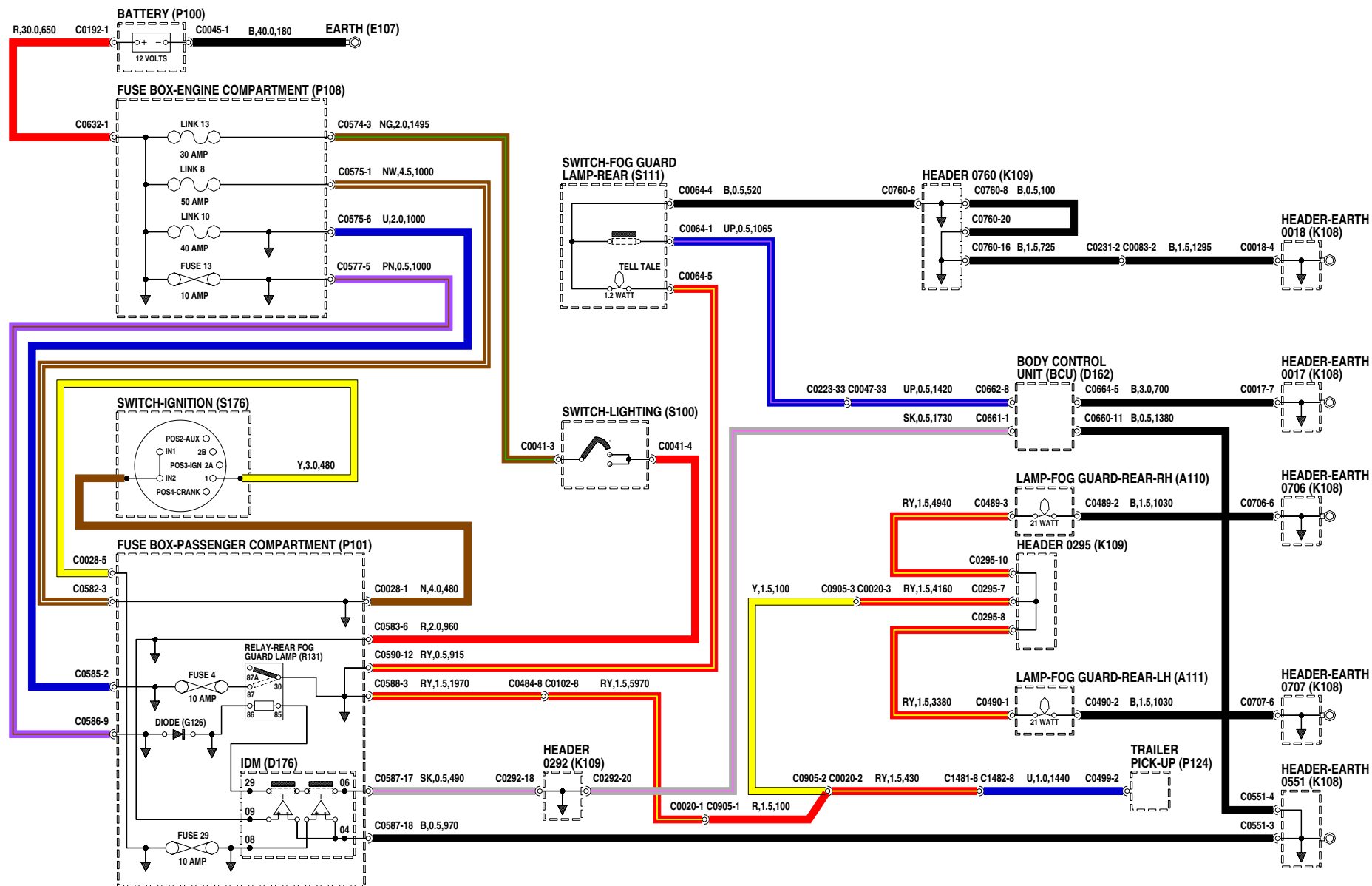
# EXTERIOR LAMPS FRONT FOG LAMPS



VWR108290-1of1

# EXTERIOR LAMPS

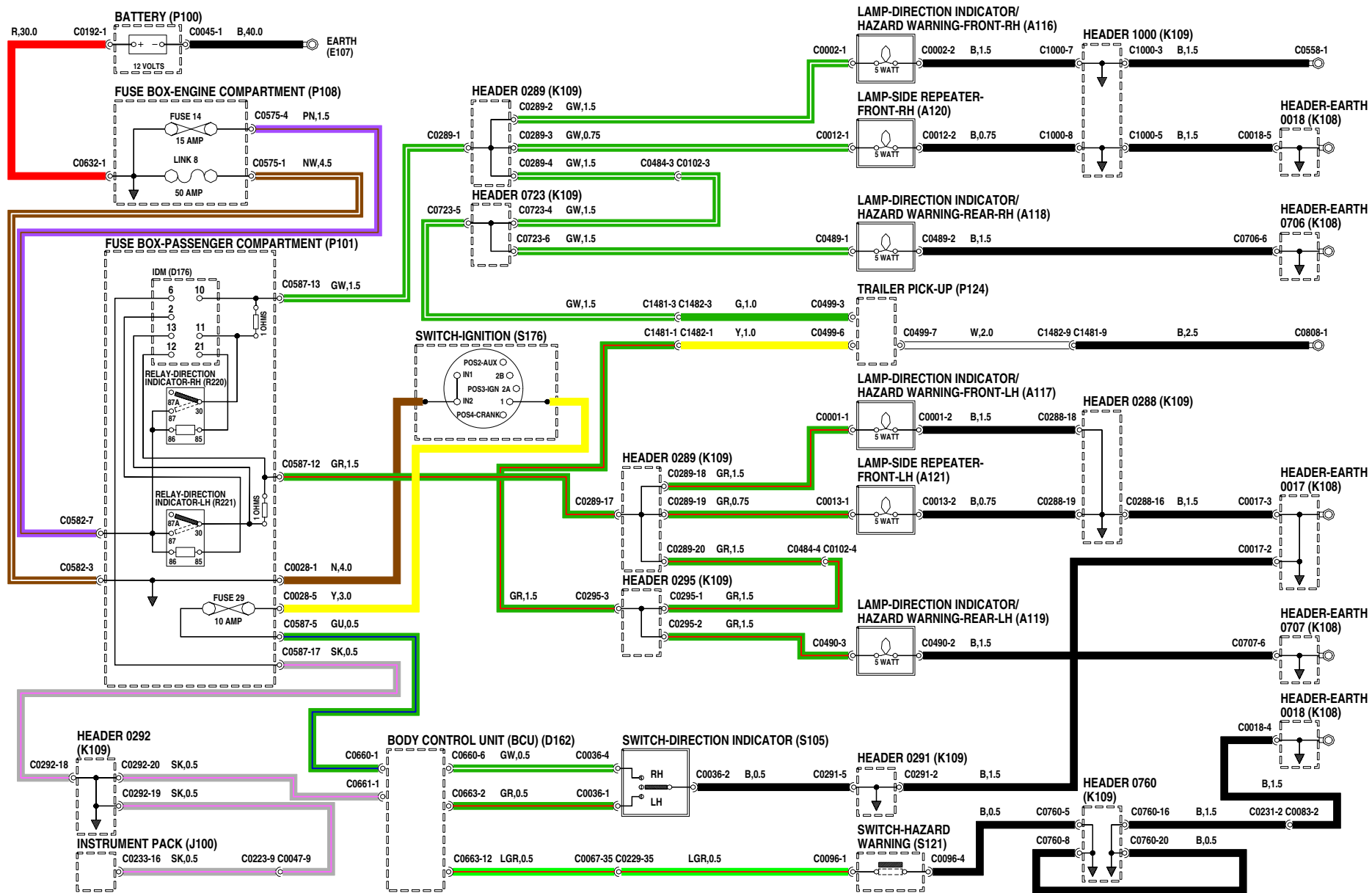
## REAR FOG GUARD LAMPS



VWR108300-1of1



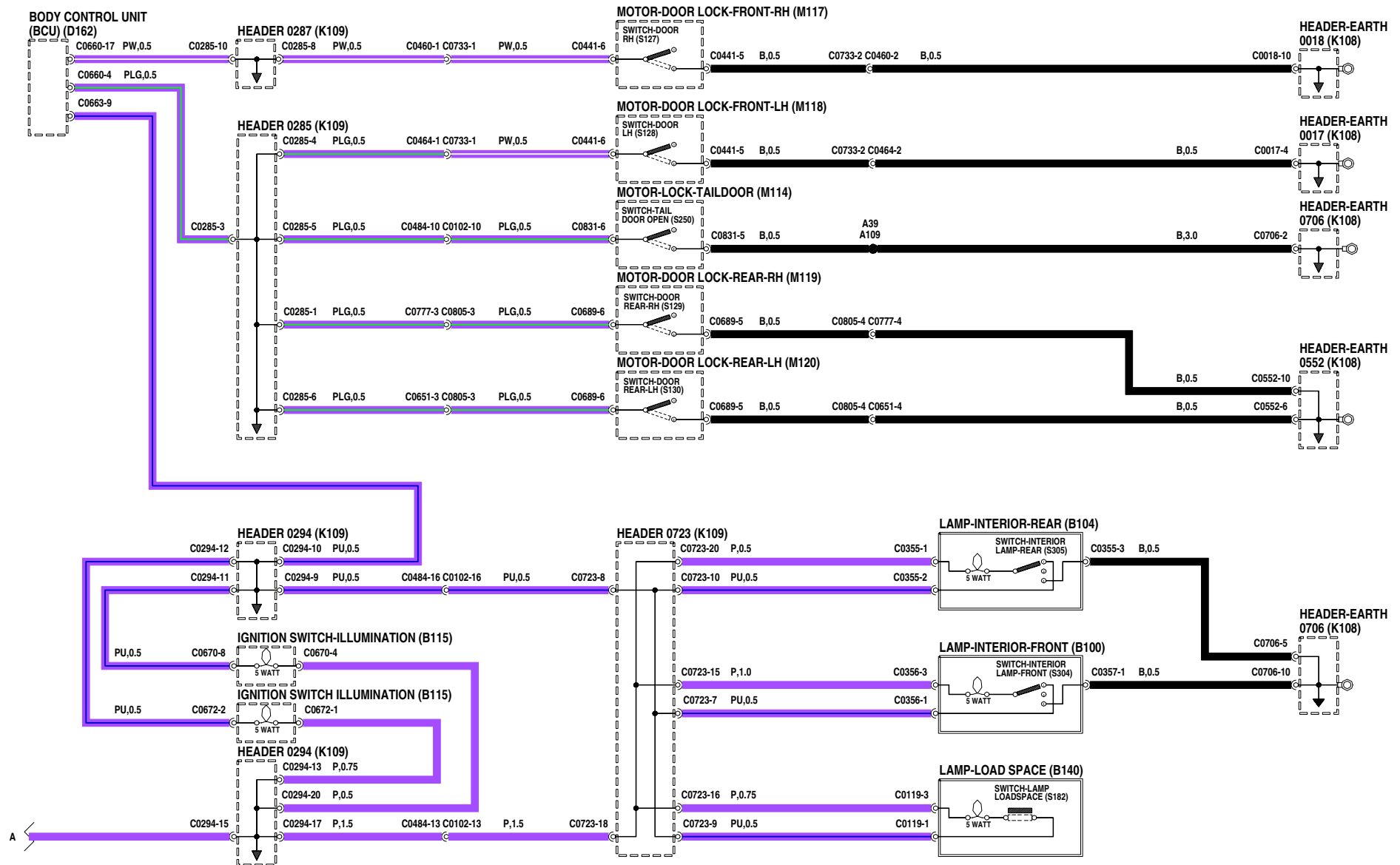
## DIRECTION INDICATOR/HAZARD WARNING LAMPS





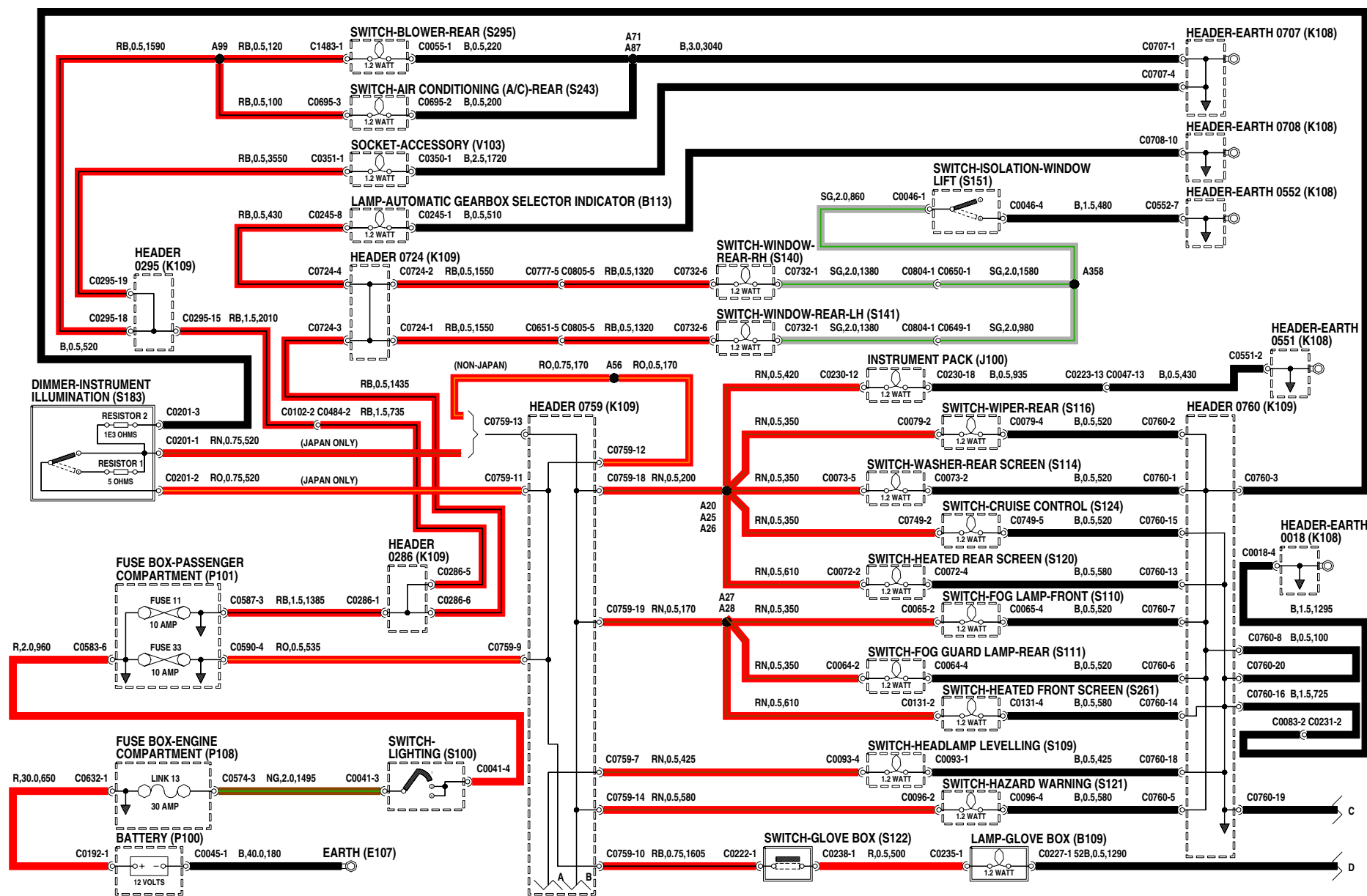


# INTERIOR LAMPS



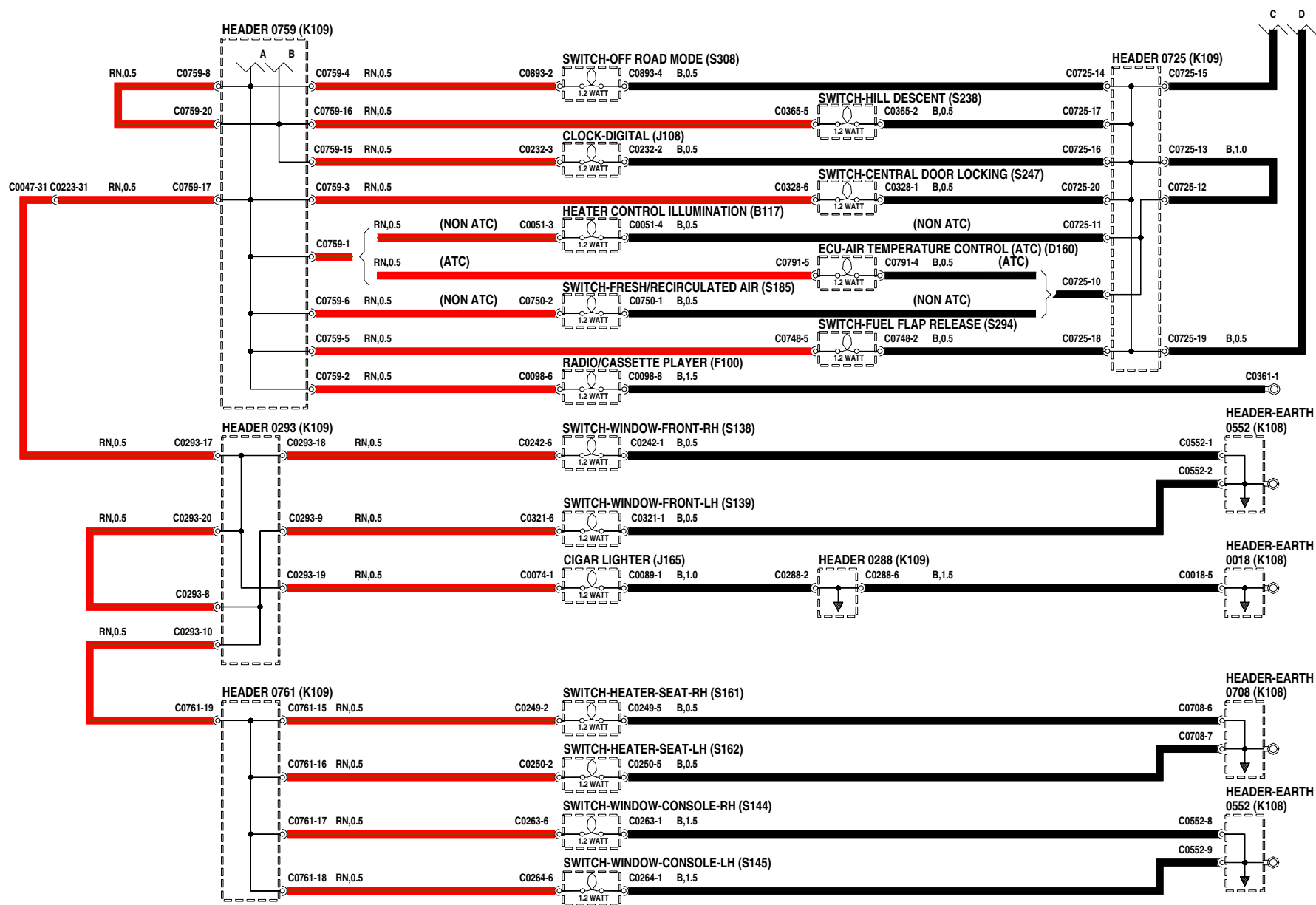
VWR108490-2x2

# INTERIOR ILLUMINATION



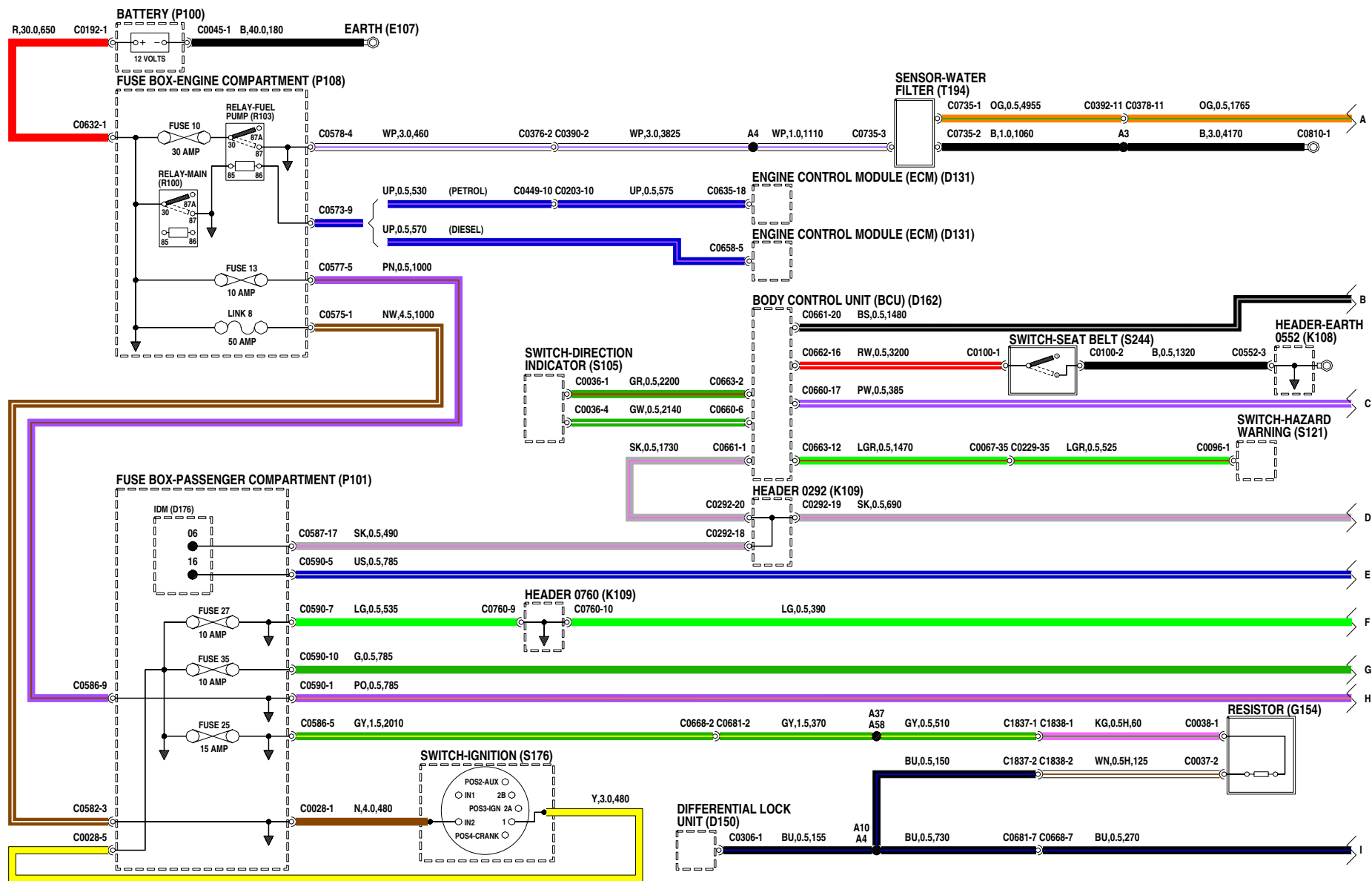
VWR108480-1-02

# INTERIOR ILLUMINATION



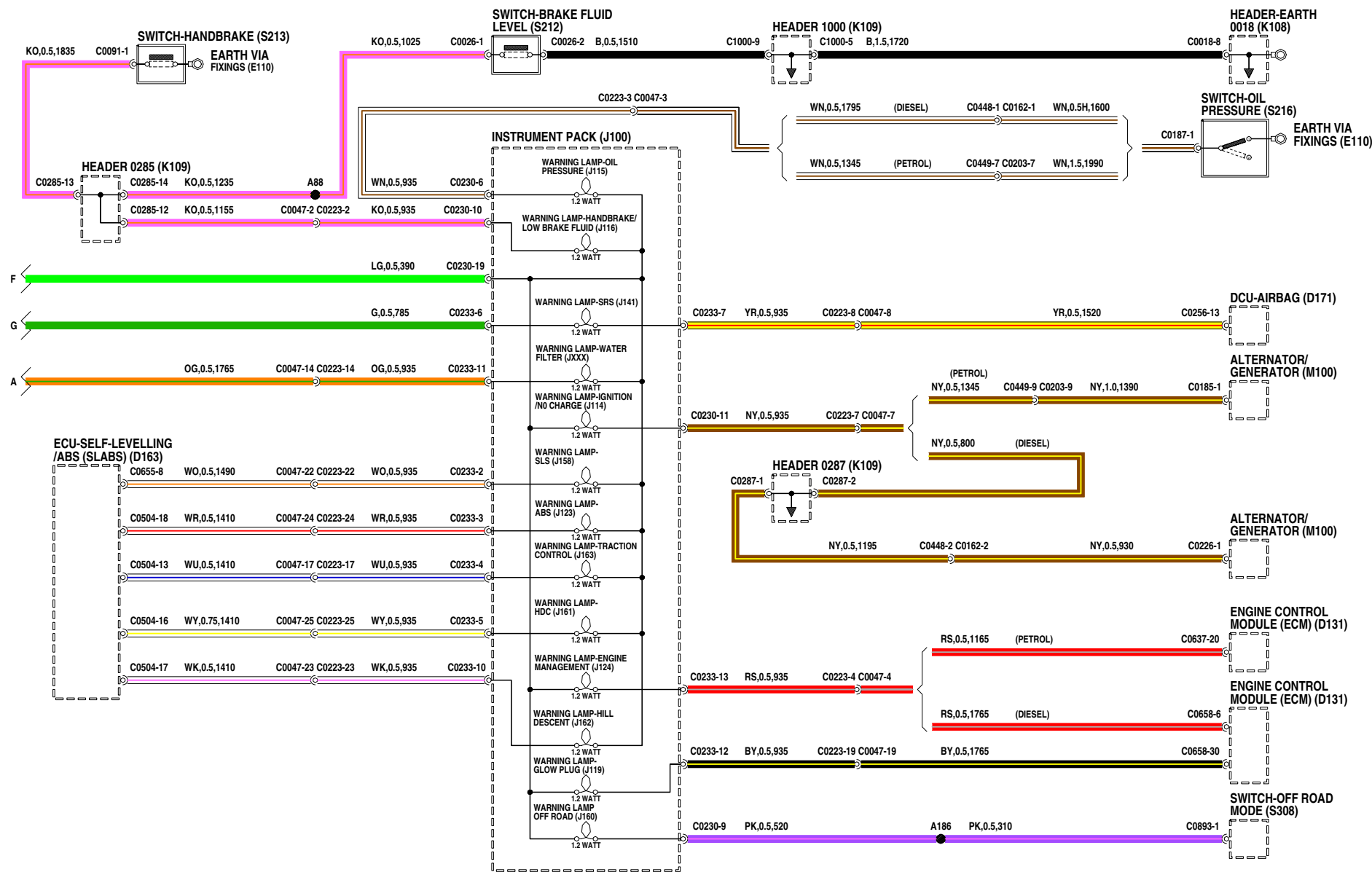
VWR108480-2x2

# INSTRUMENTS



VWR108470-1of3

# INSTRUMENTS

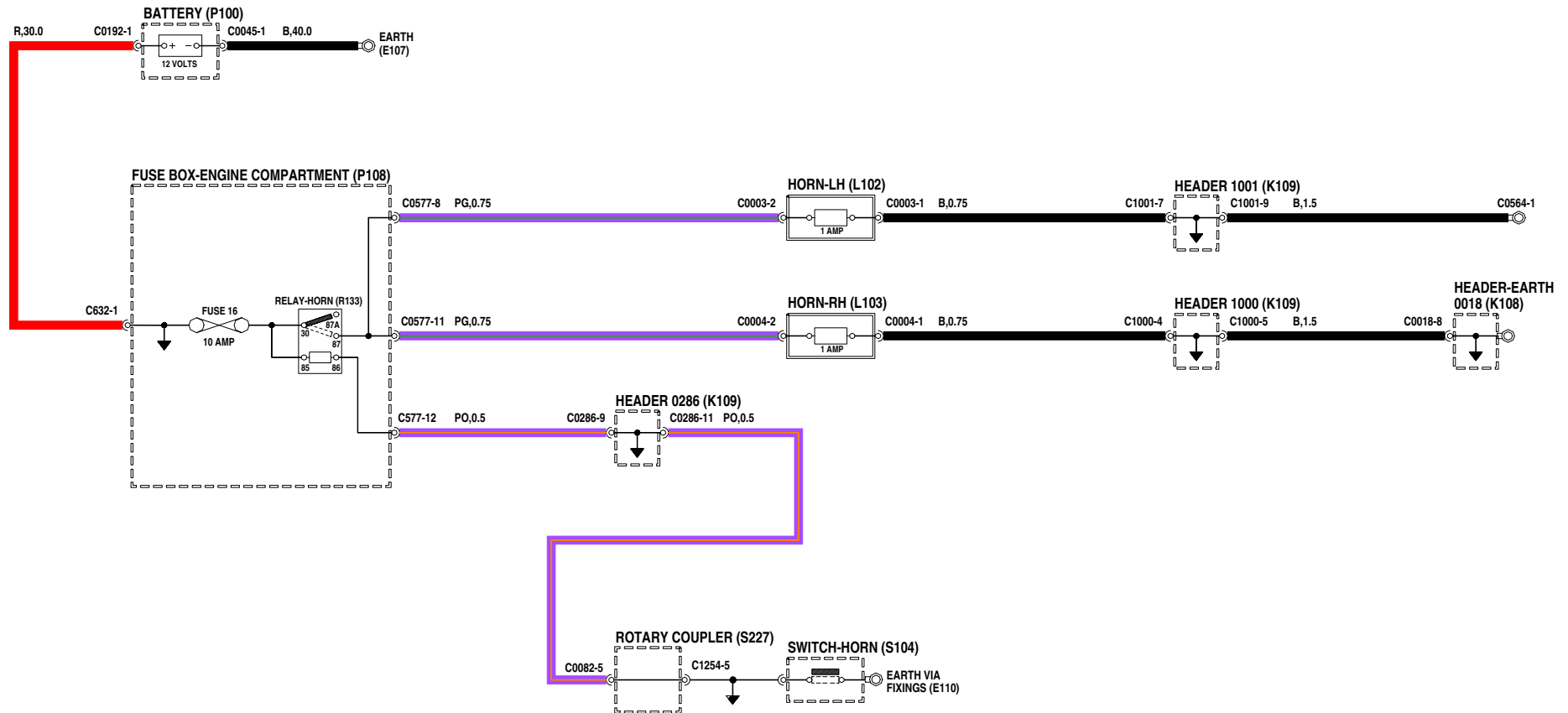


VWR108470-2a03

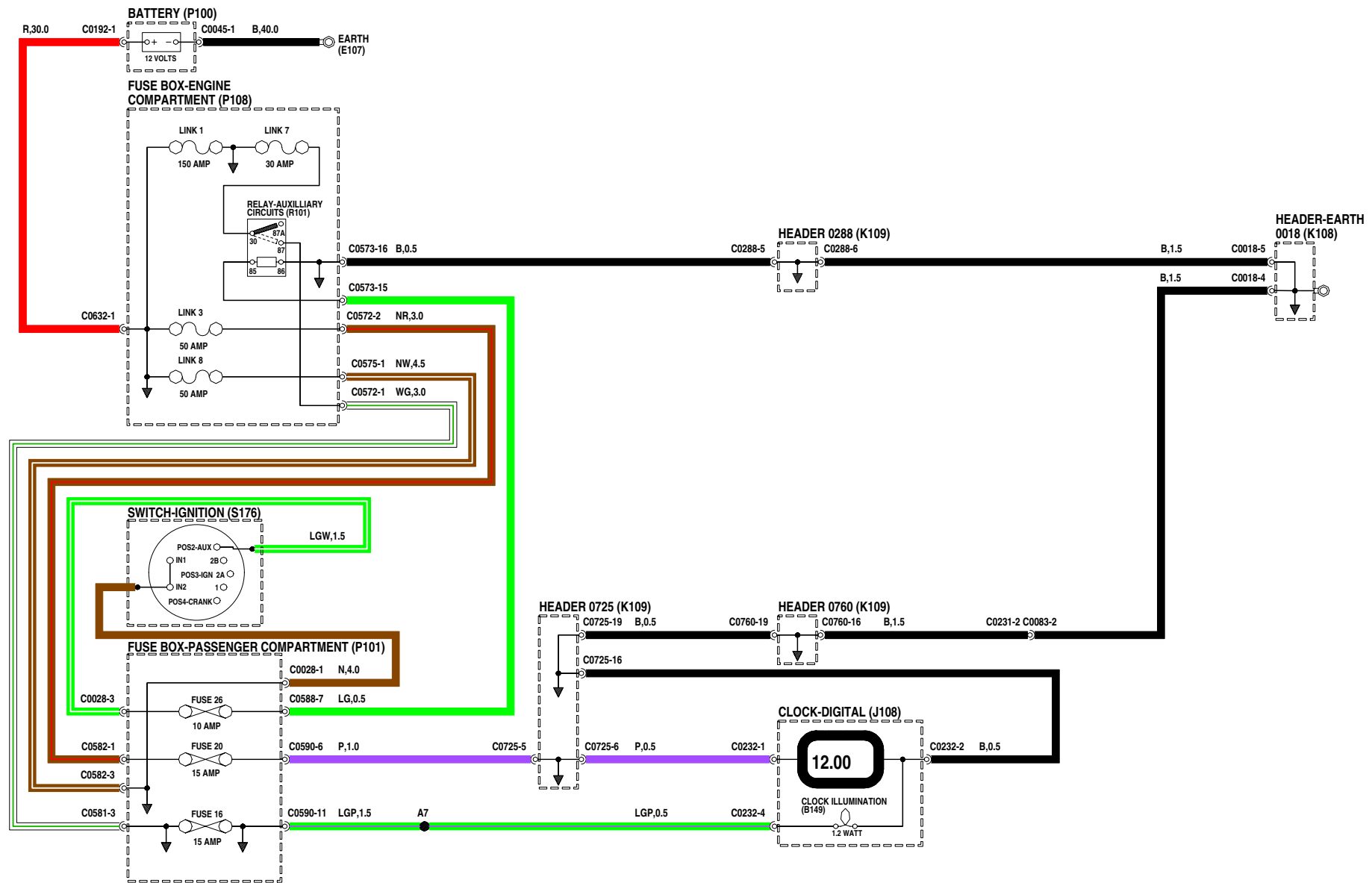


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# HORNS

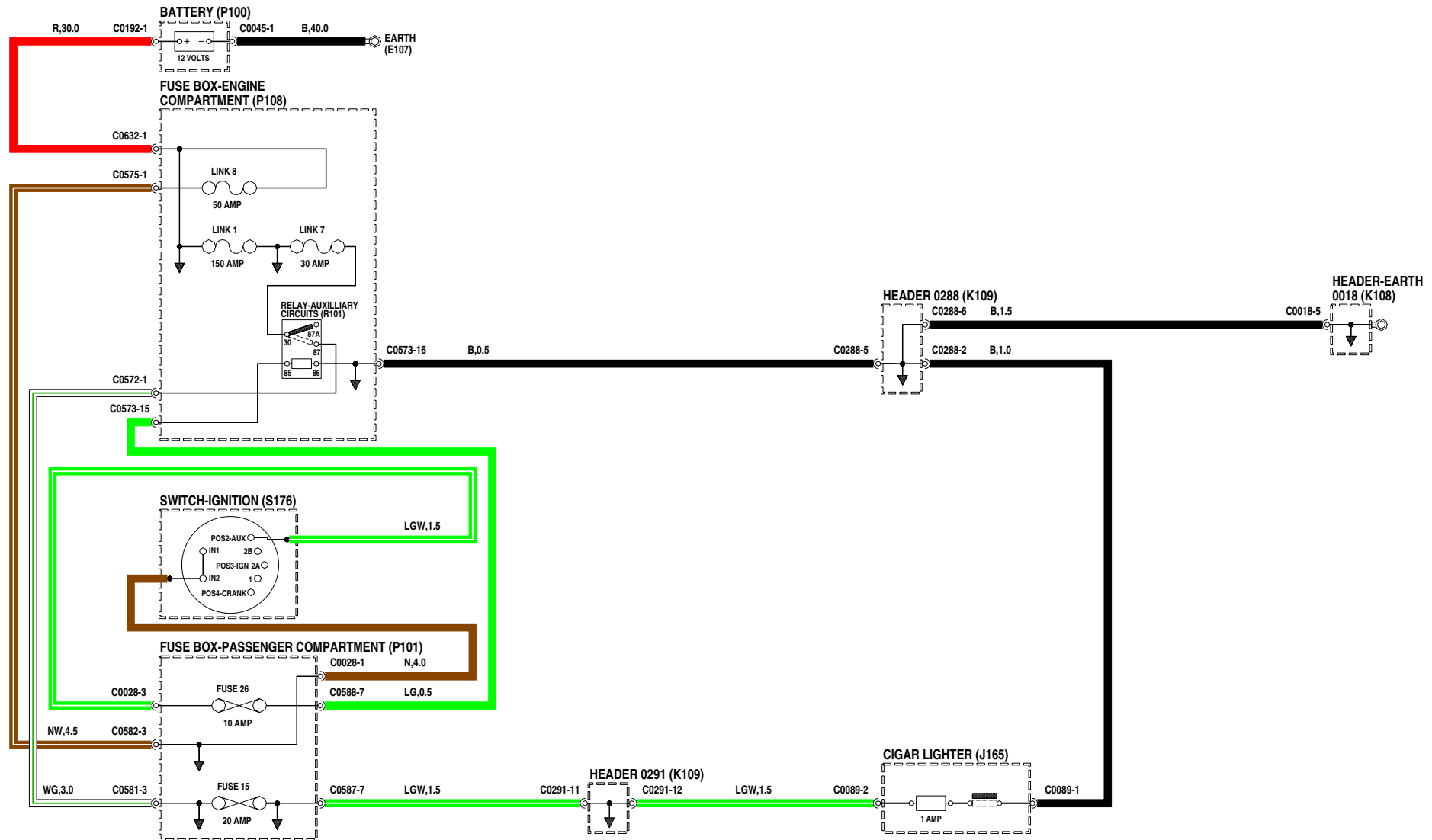


# CLOCK

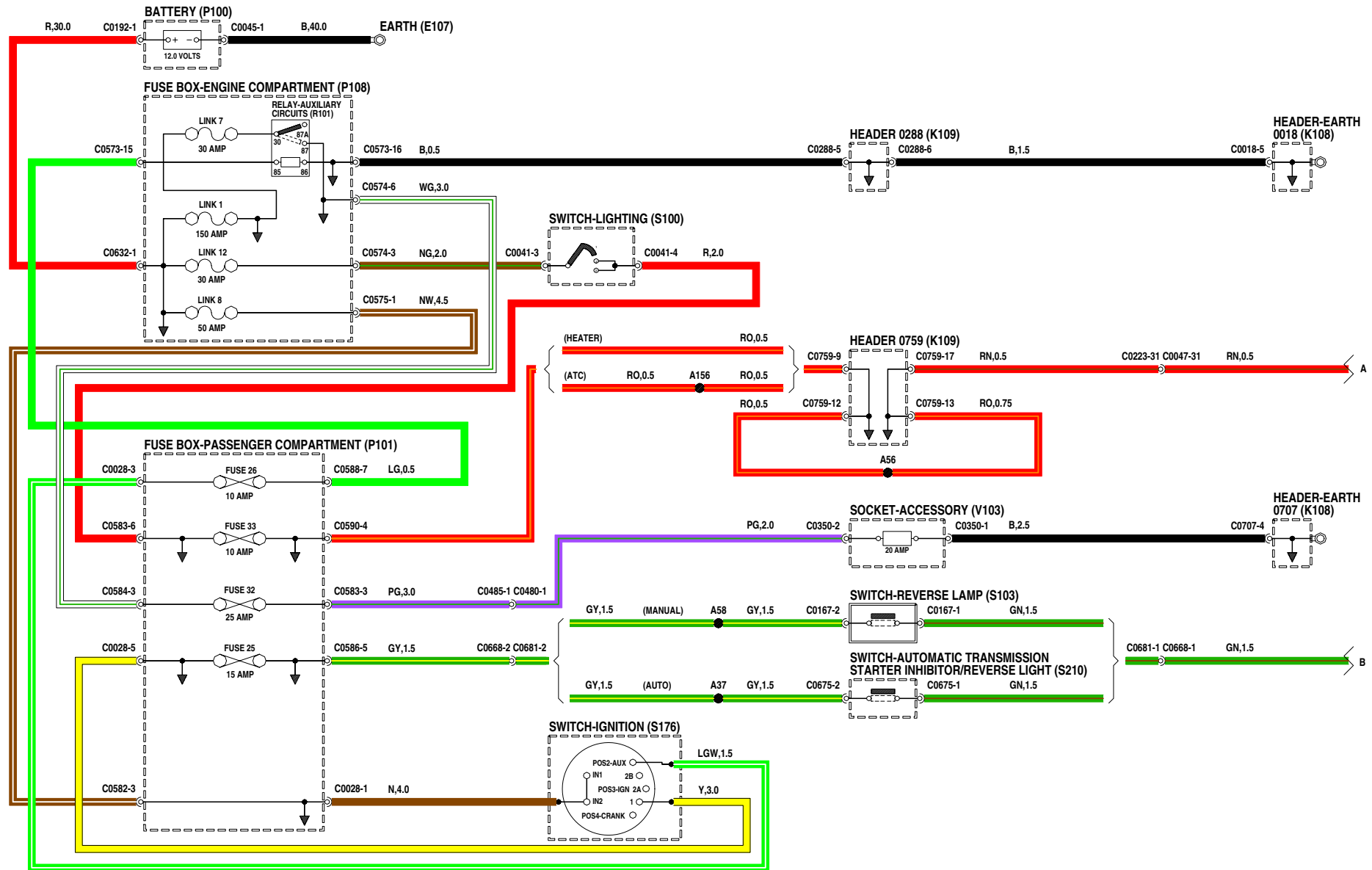


VWR108200-1a11

# CIGAR LIGHTER

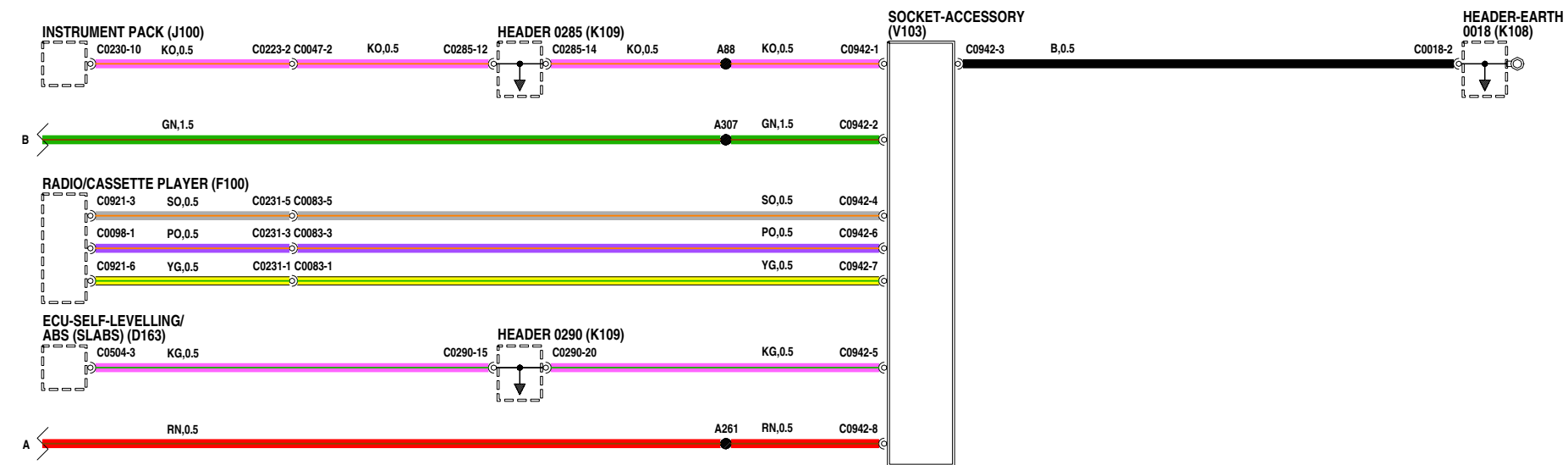


# ACCESSORY SOCKET



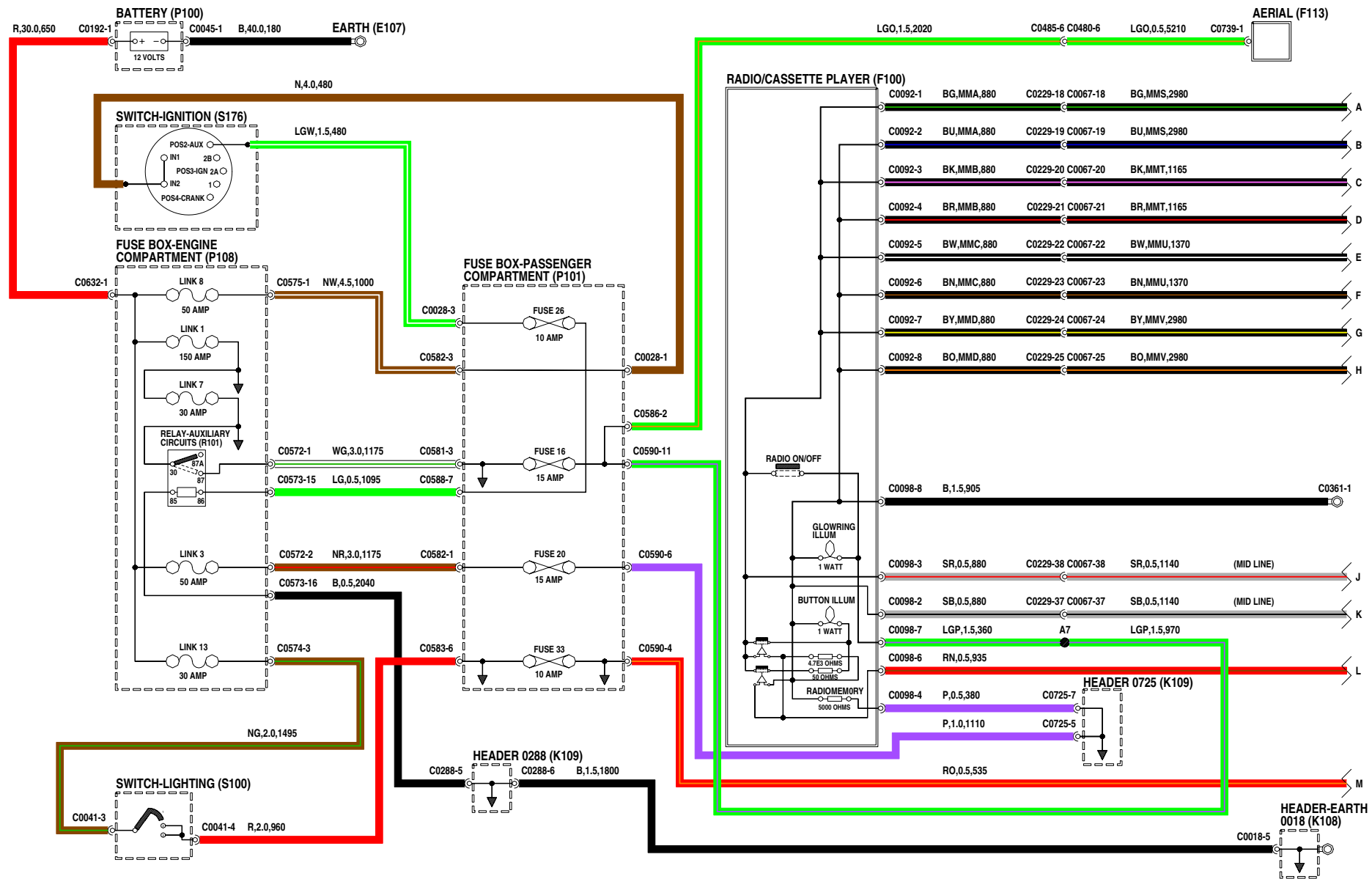
VWR108120-1of2

# ACCESSORY SOCKET



# AUDIO SYSTEMS

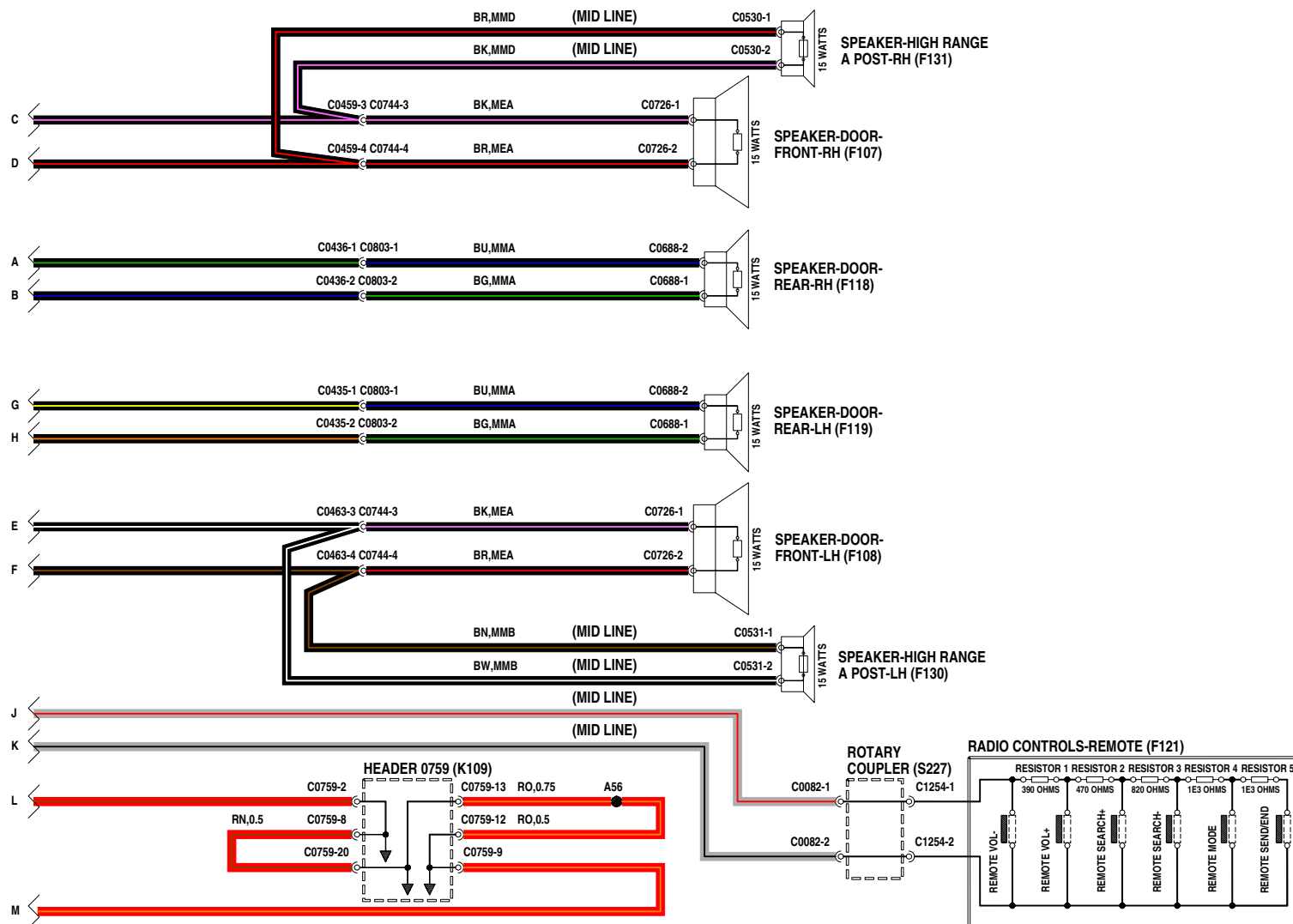
## BASE AND MID LINE



VWR108420-1of2

# AUDIO SYSTEMS

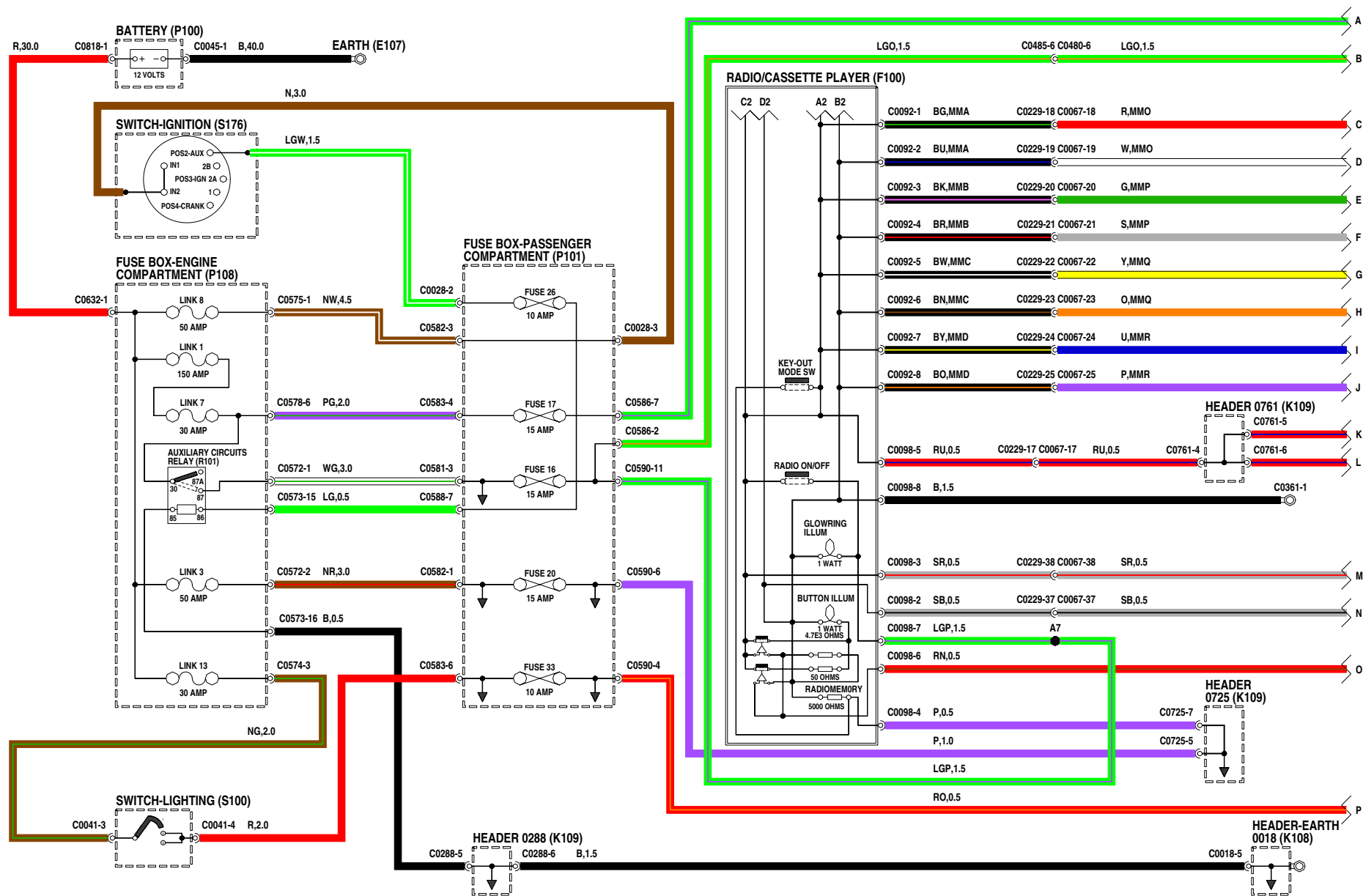
## BASE AND MID LINE





# AUDIO SYSTEMS

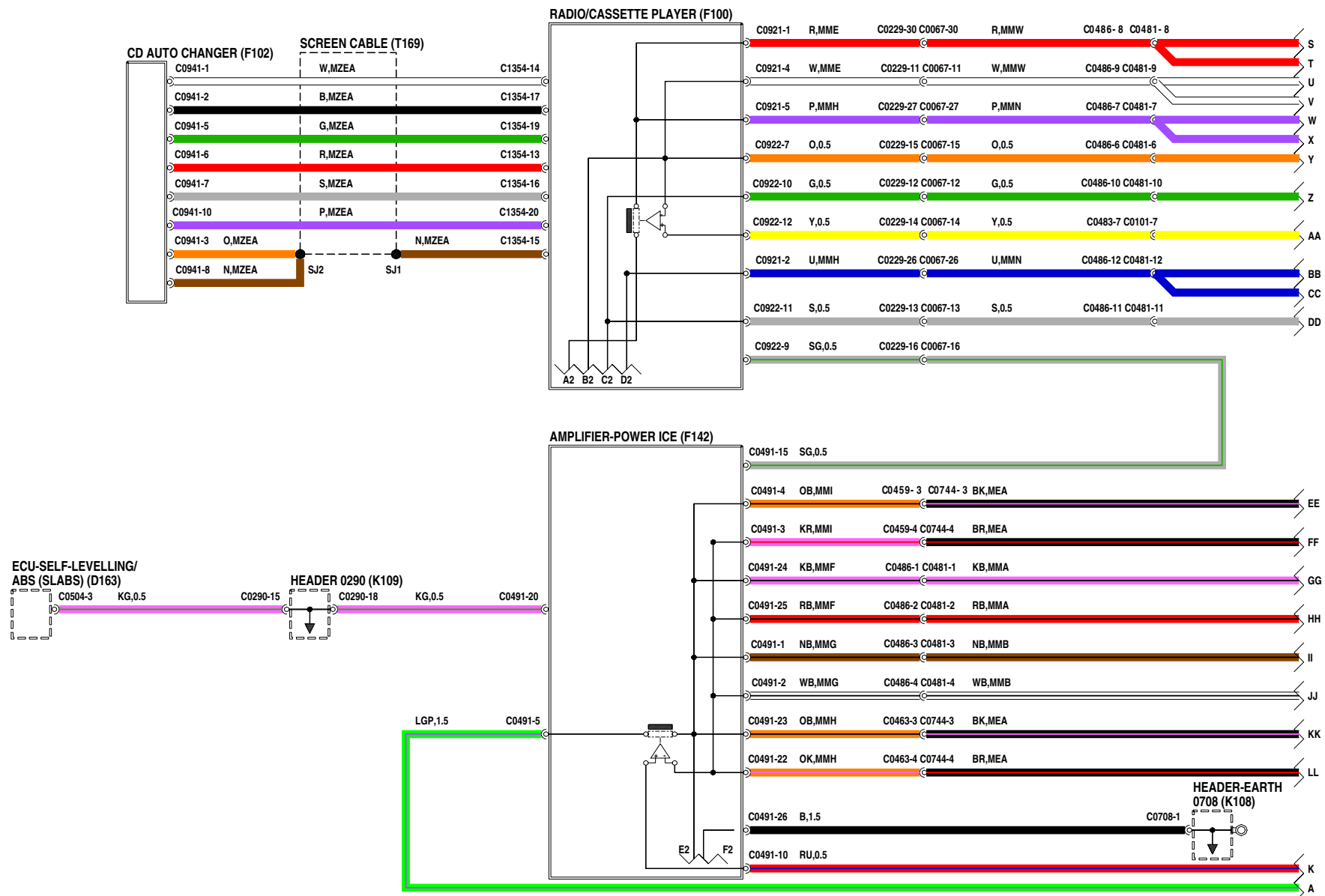
## HIGH-LINE - HARMAN AMPLIFIER



VWR108440-1of4

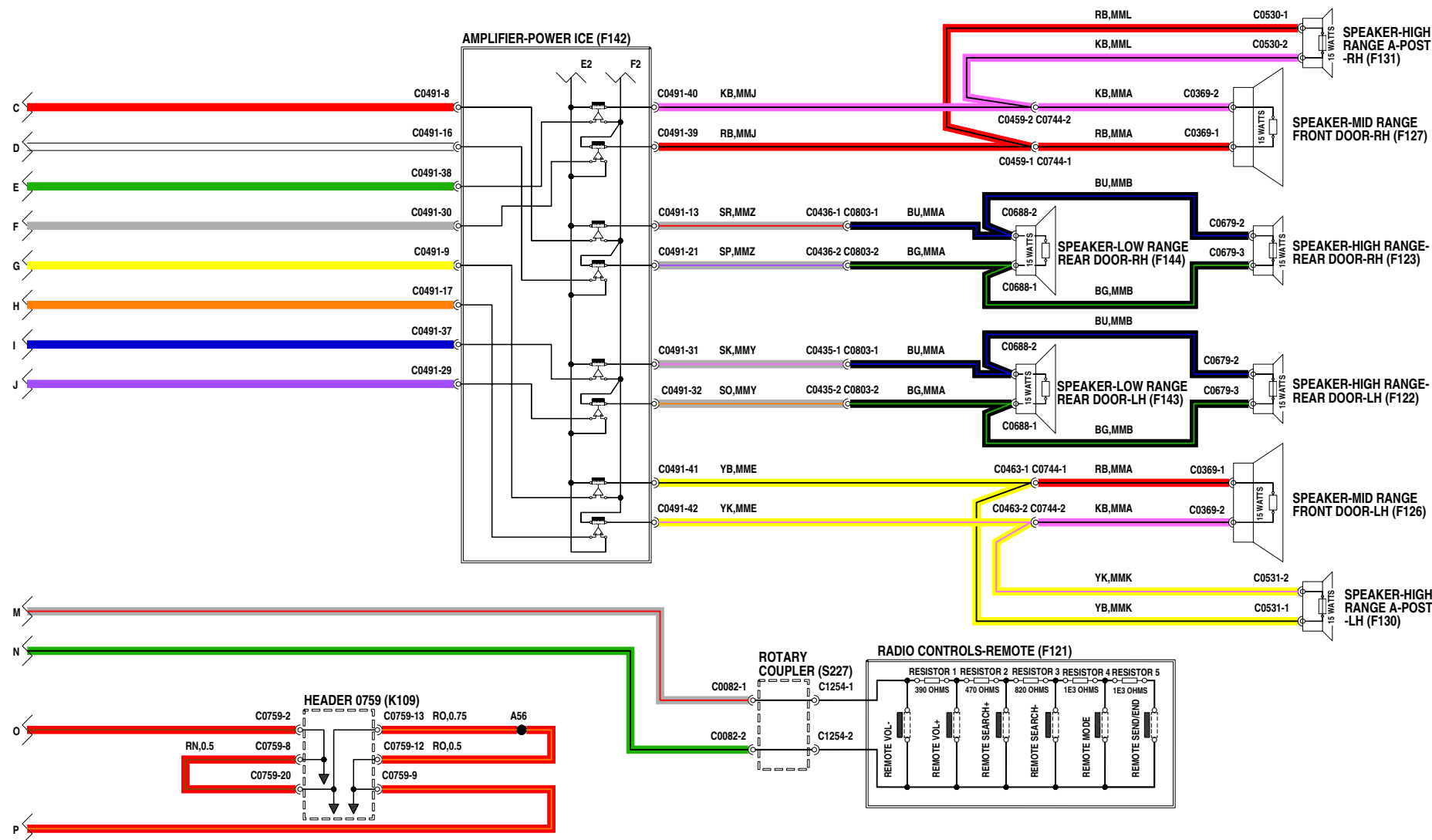
# AUDIO SYSTEMS

## HIGH LINE - HARMAN AMPLIFIER



# AUDIO SYSTEMS

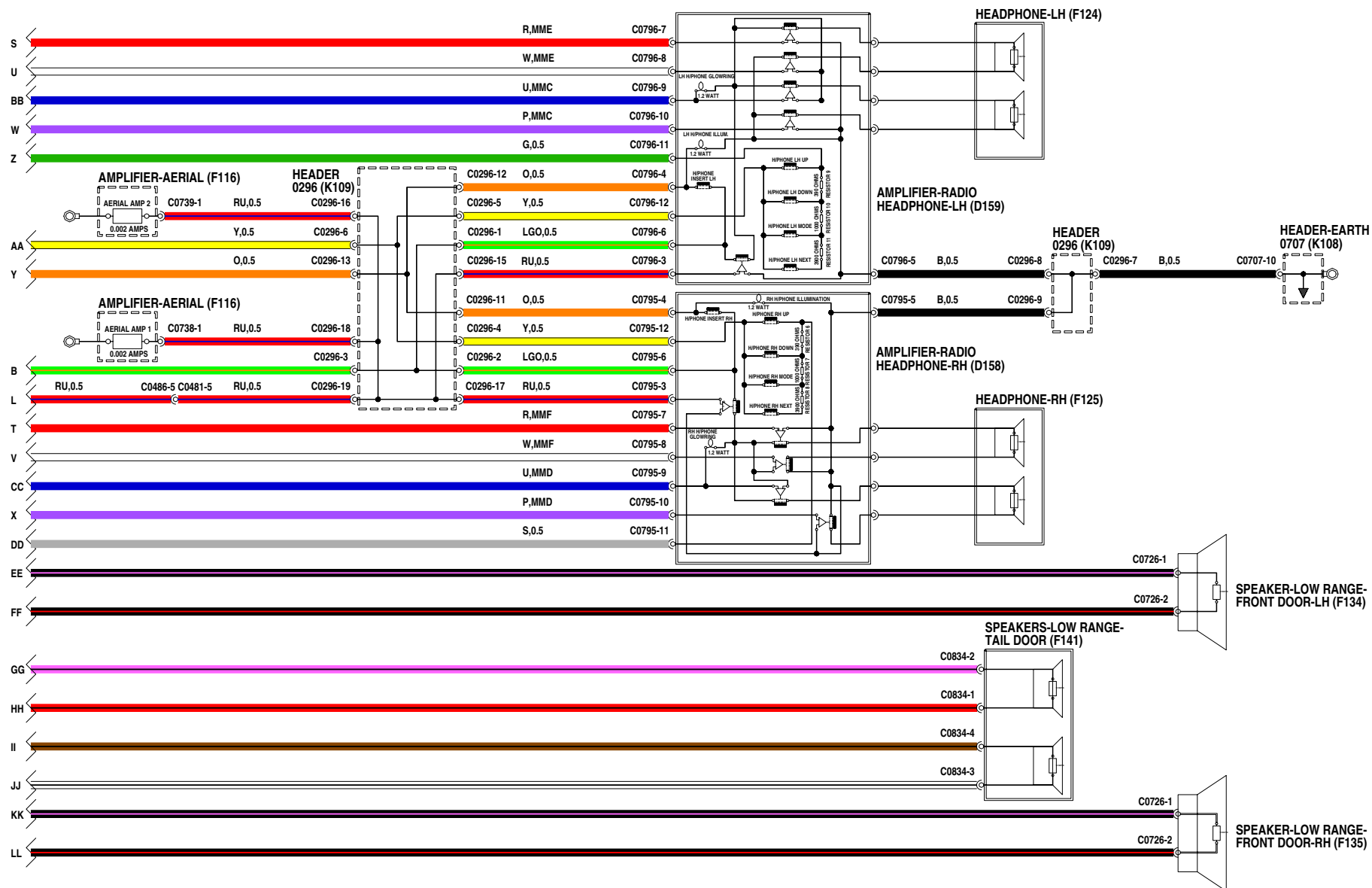
## HIGH LINE - HARMAN AMPLIFIER



VWR108440-3a/3

# AUDIO SYSTEMS

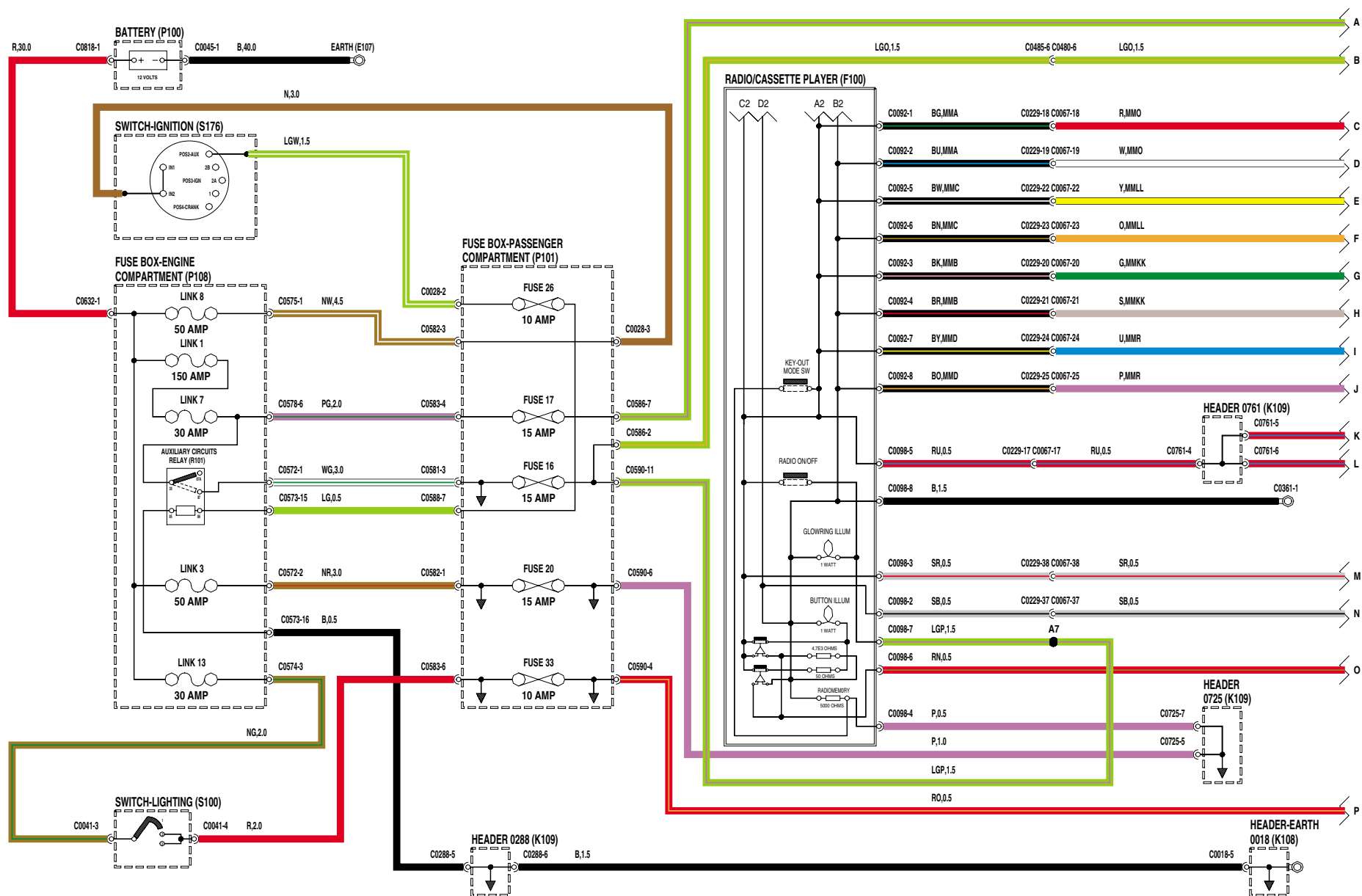
## HIGH-LINE - HARMAN AMPLIFIER



VWR108440-4of4

# AUDIO SYSTEMS

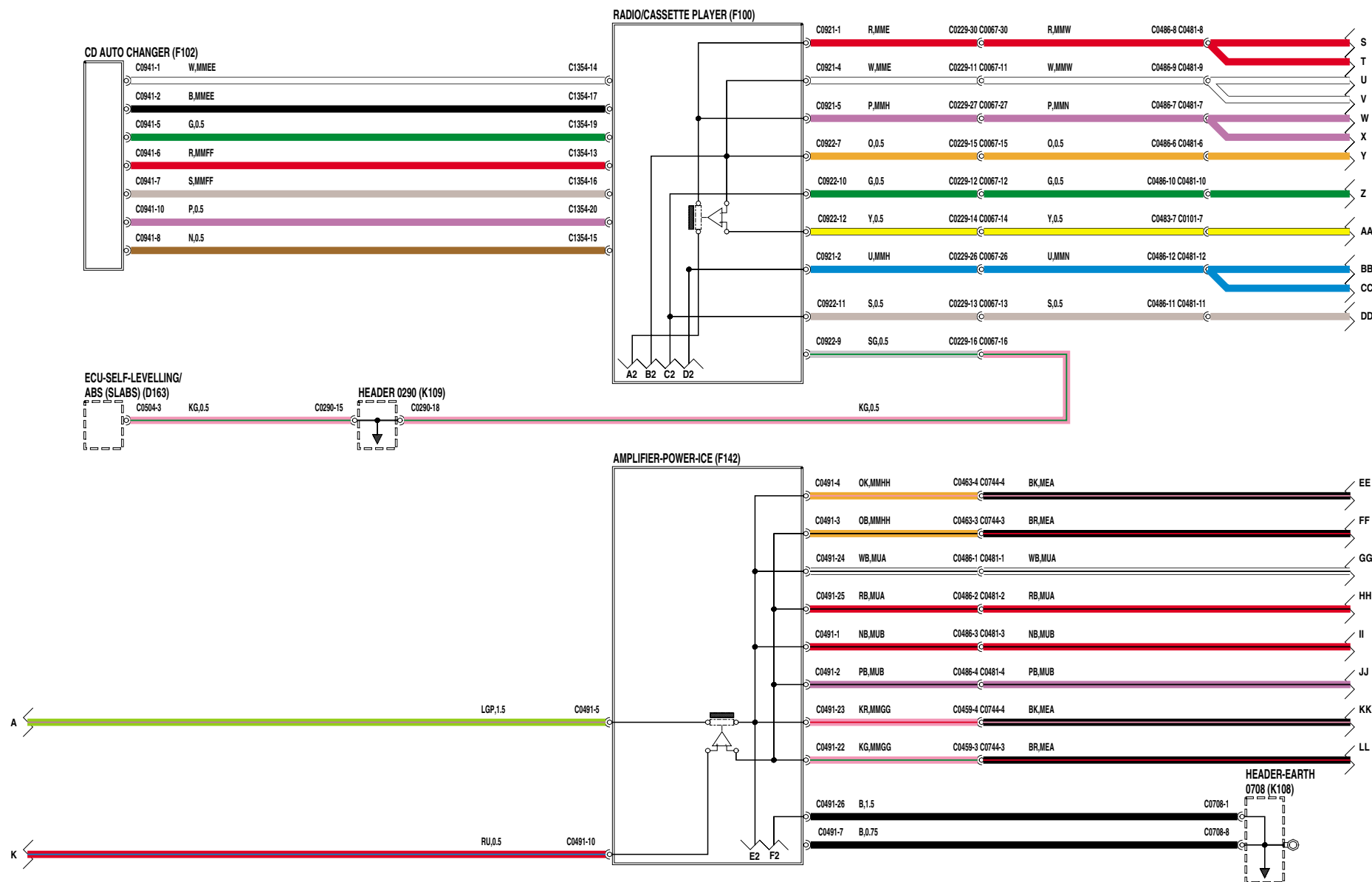
## HIGH LINE - LEAR AMPLIFIER



VWR001480-A-01

# AUDIO SYSTEMS

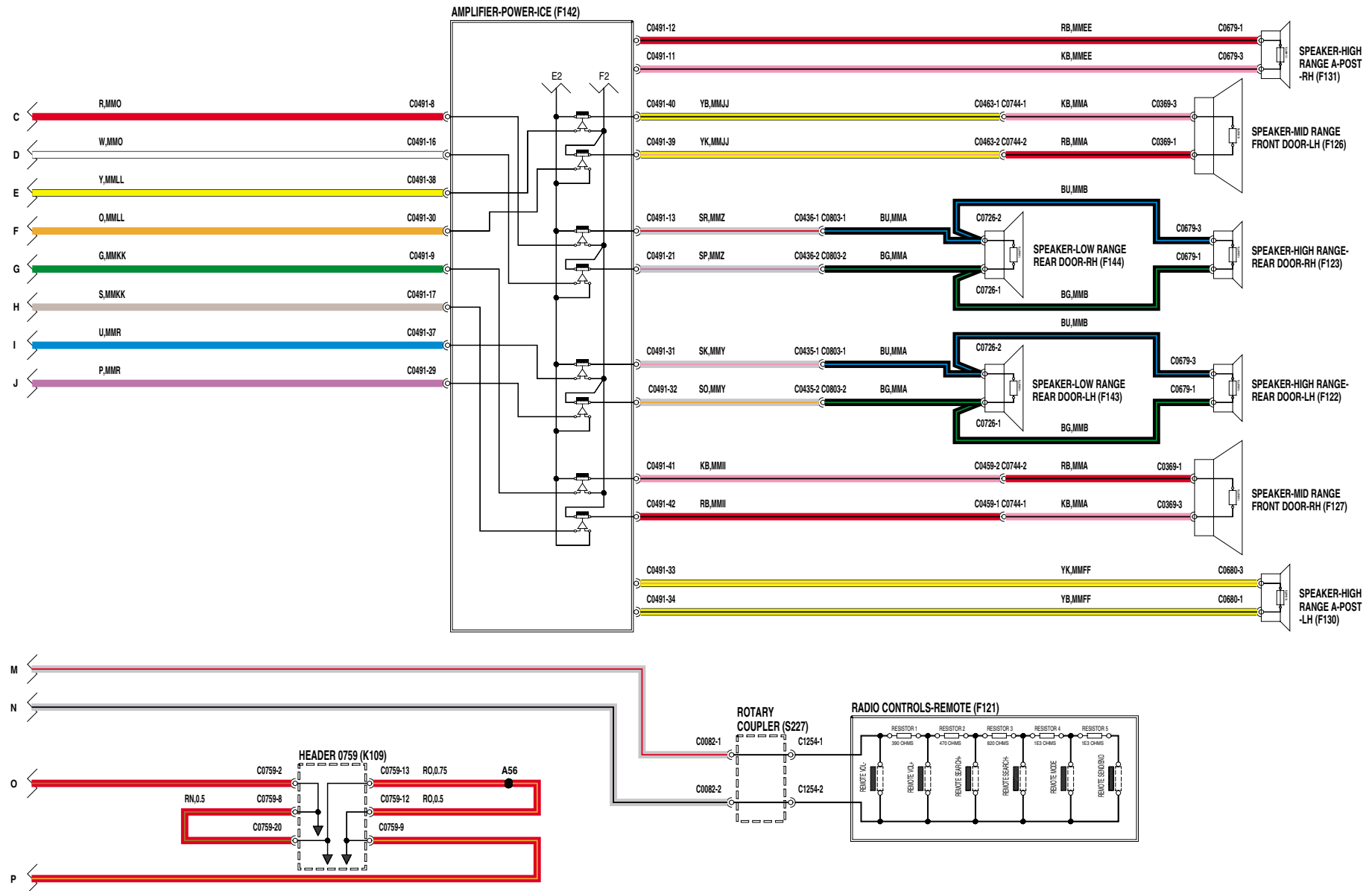
## HIGH LINE - LEAR AMPLIFIER



VWR001480-A-02

# AUDIO SYSTEMS

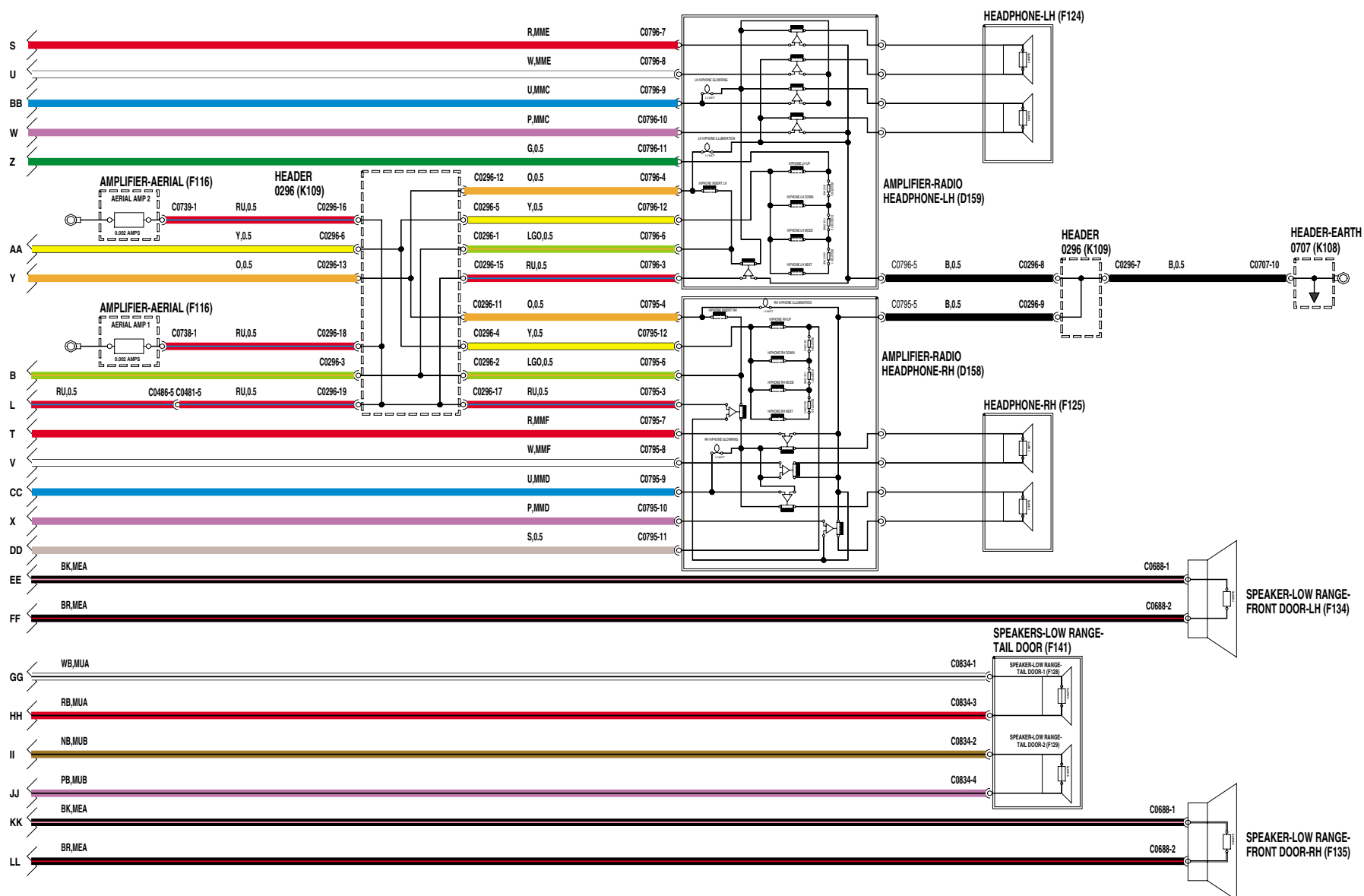
## HIGH LINE - LEAR AMPLIFIER



VWR001480-A-03

# AUDIO SYSTEMS

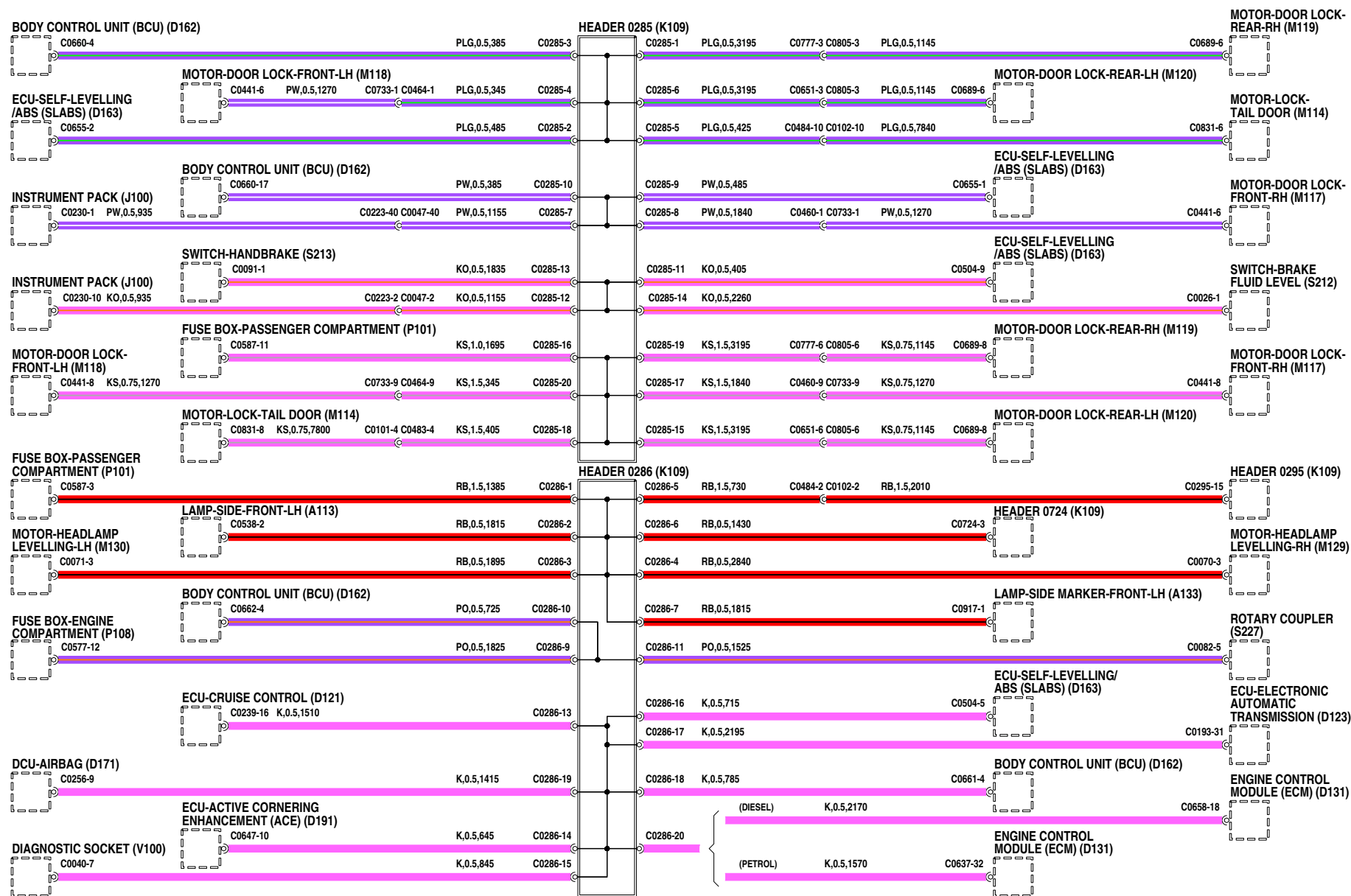
## HIGH LINE - LEAR AMPLIFIER



VWR001480-A-04

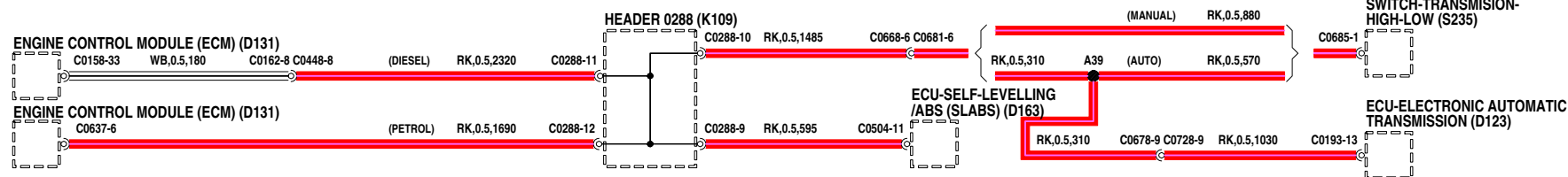
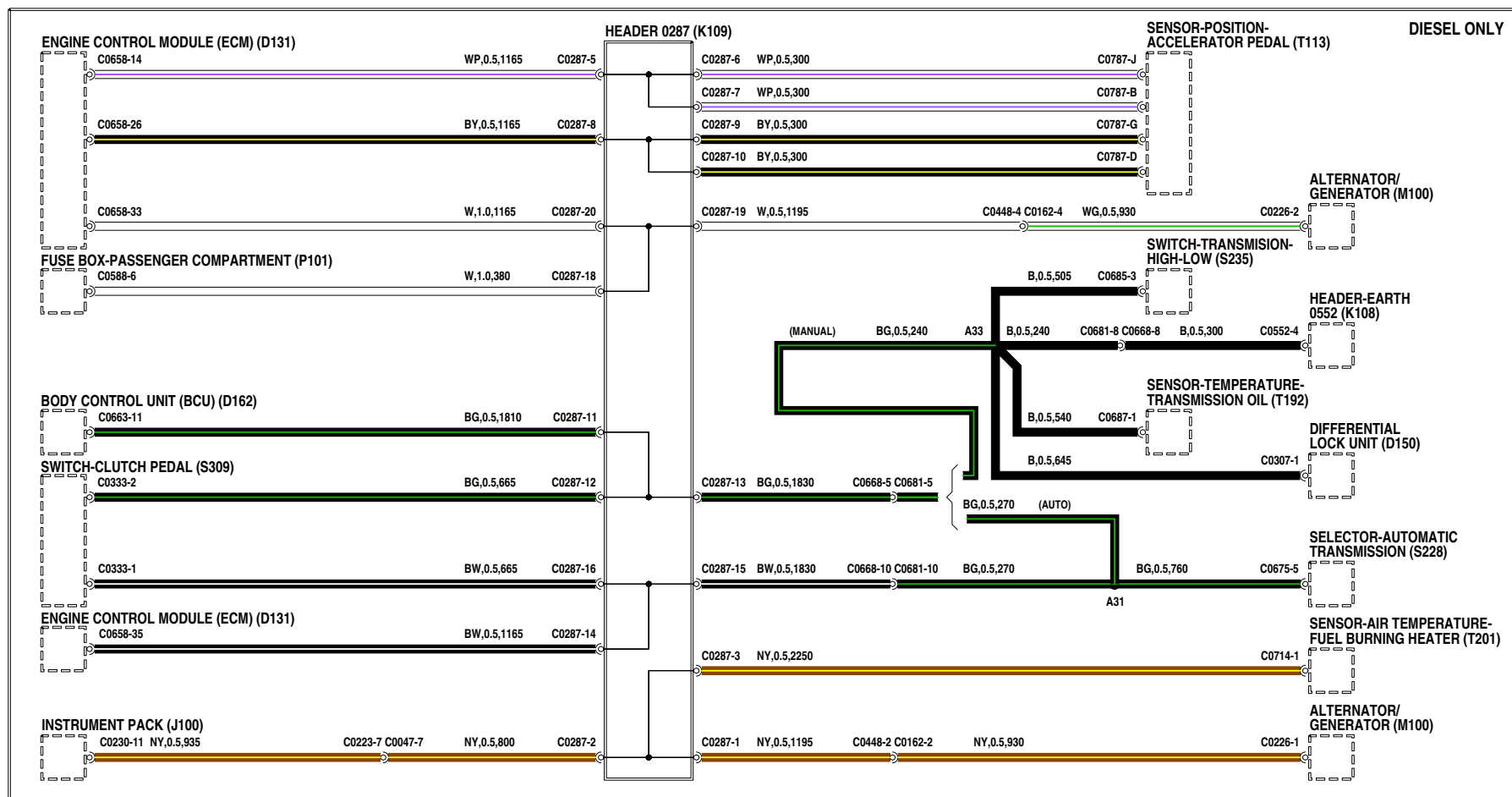


# HEADER JOINTS

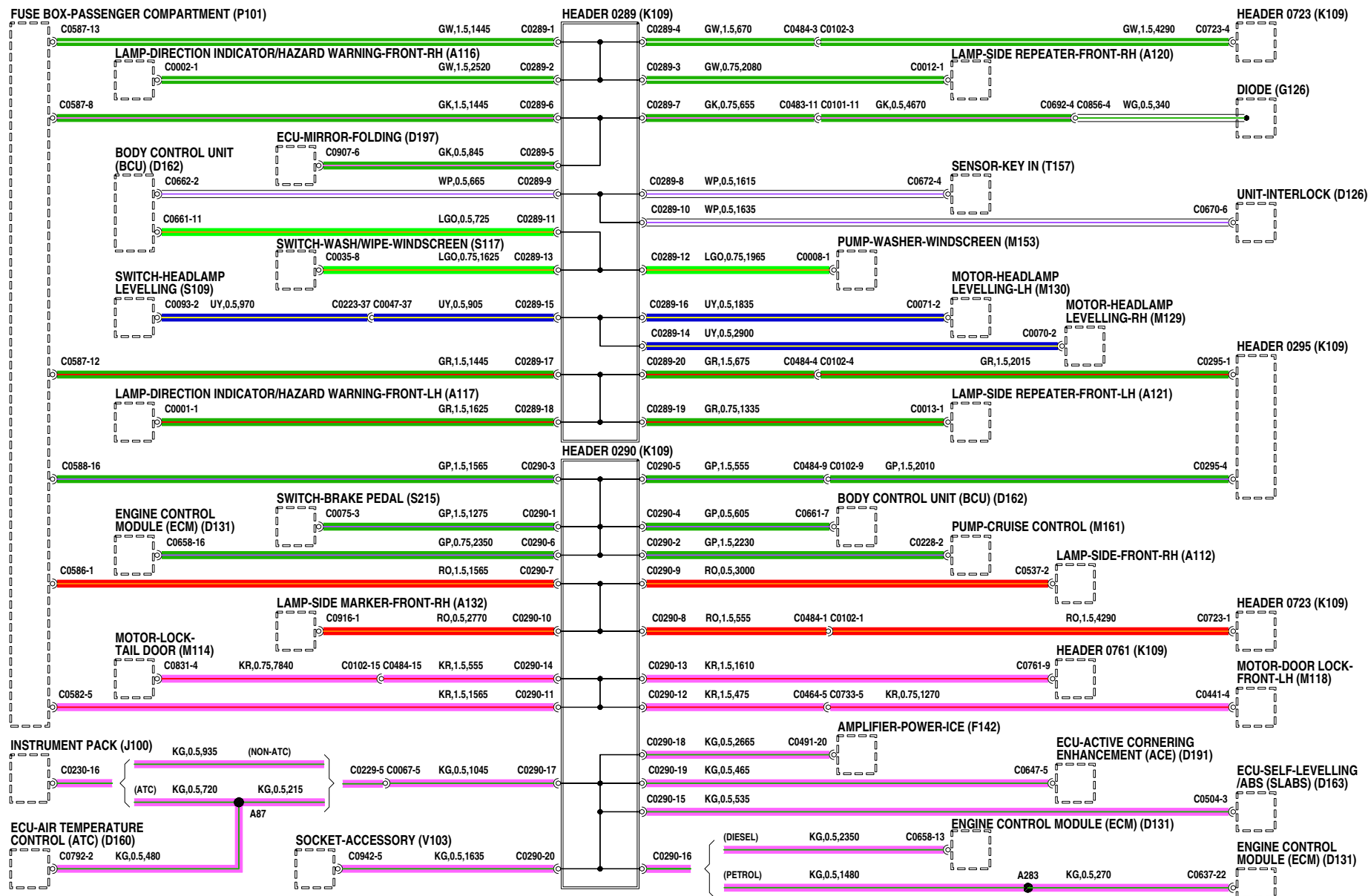


VWR108380-1 of 9

# HEADER JOINTS

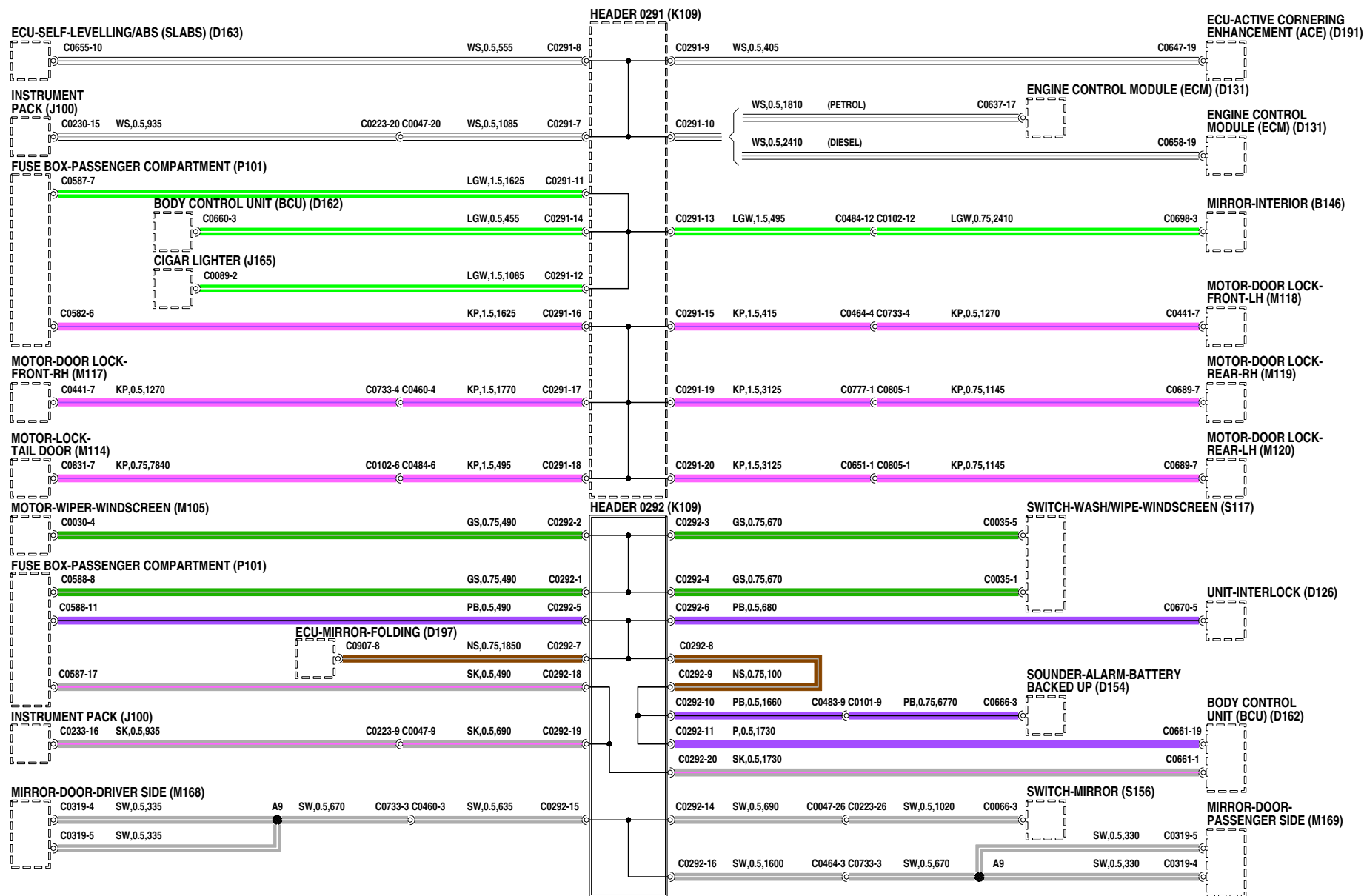


# HEADER JOINTS



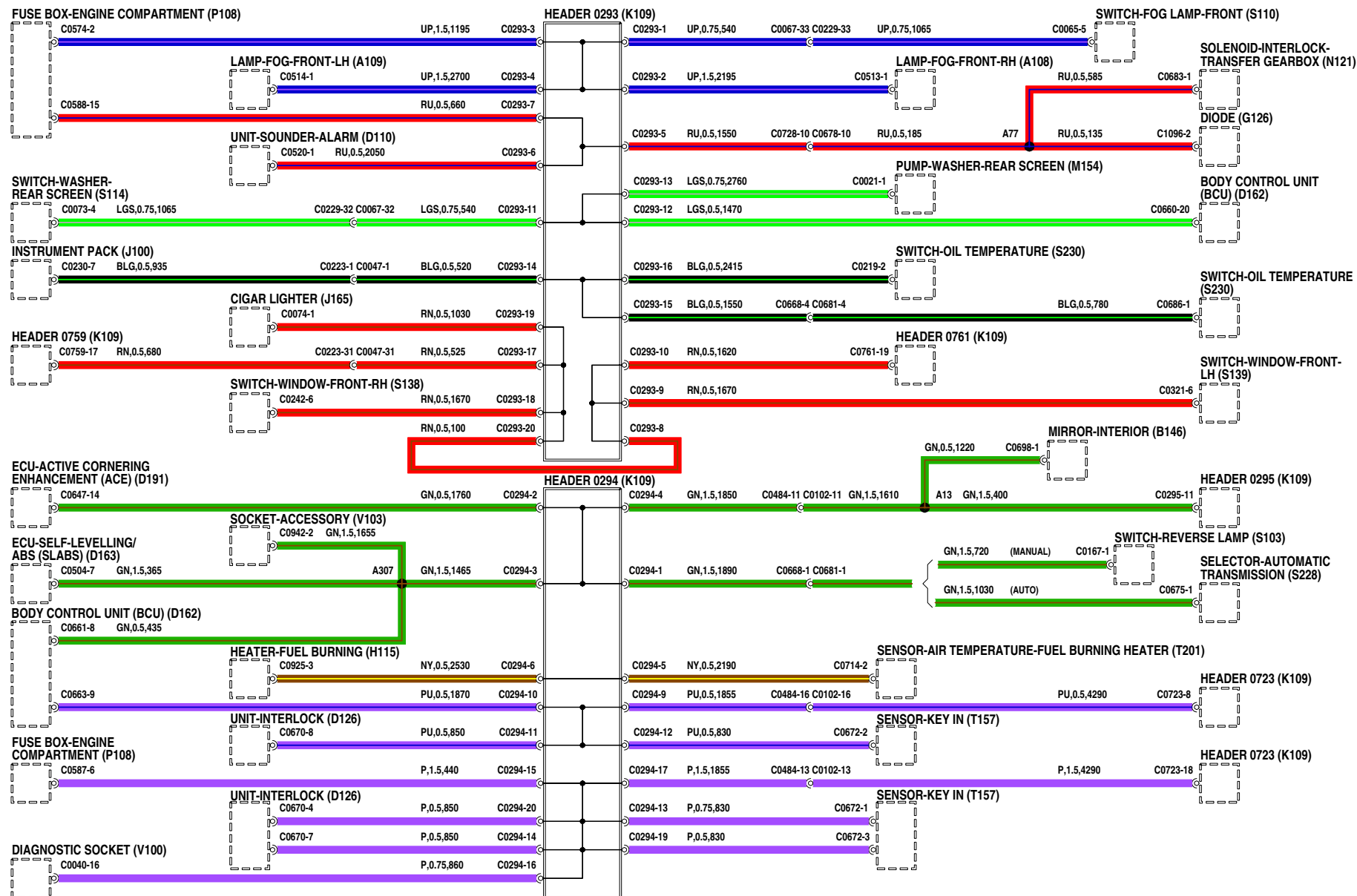
VWR108380-3of9

# HEADER JOINTS



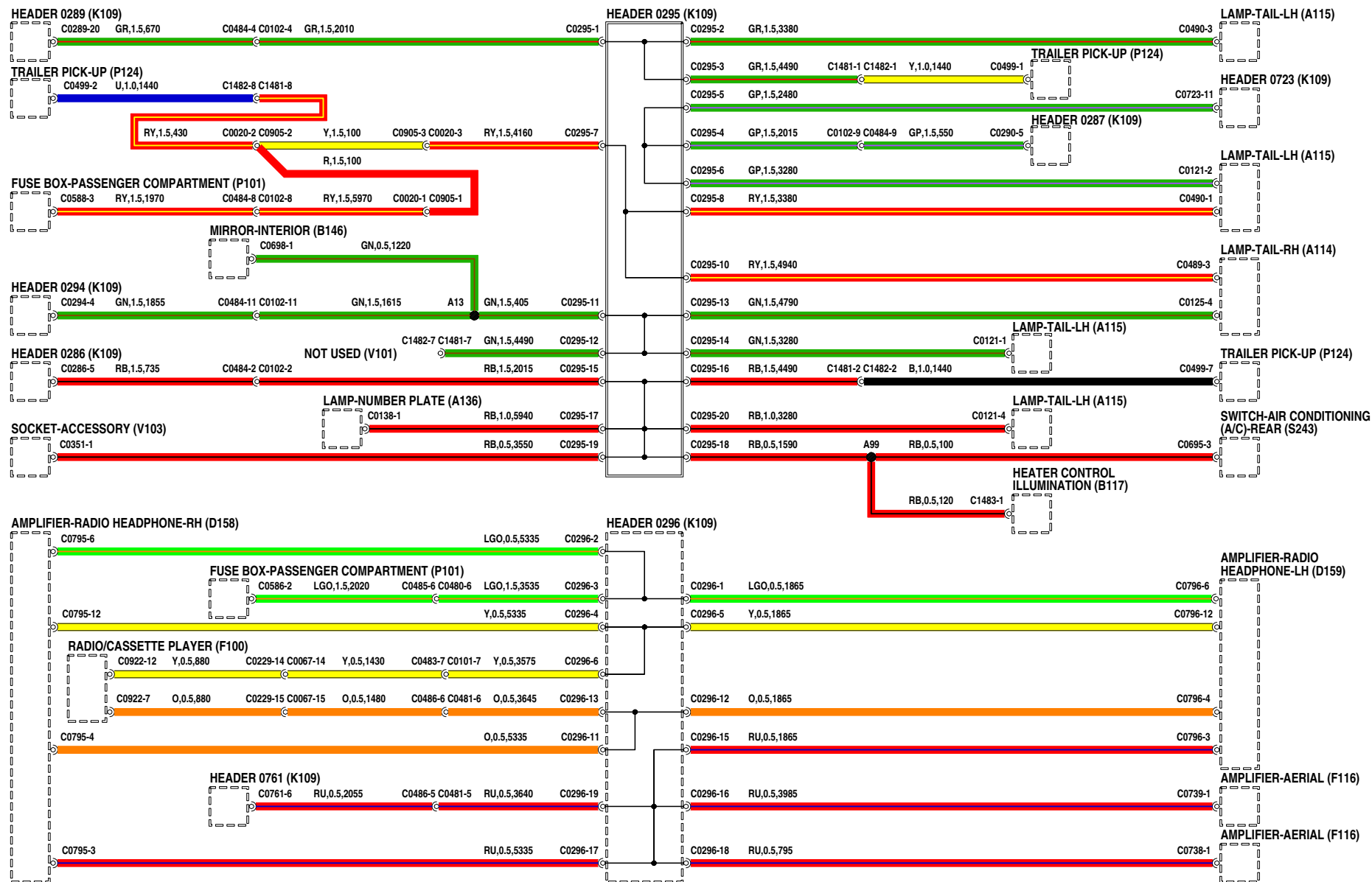
VWR108360-4-019

# HEADER JOINTS



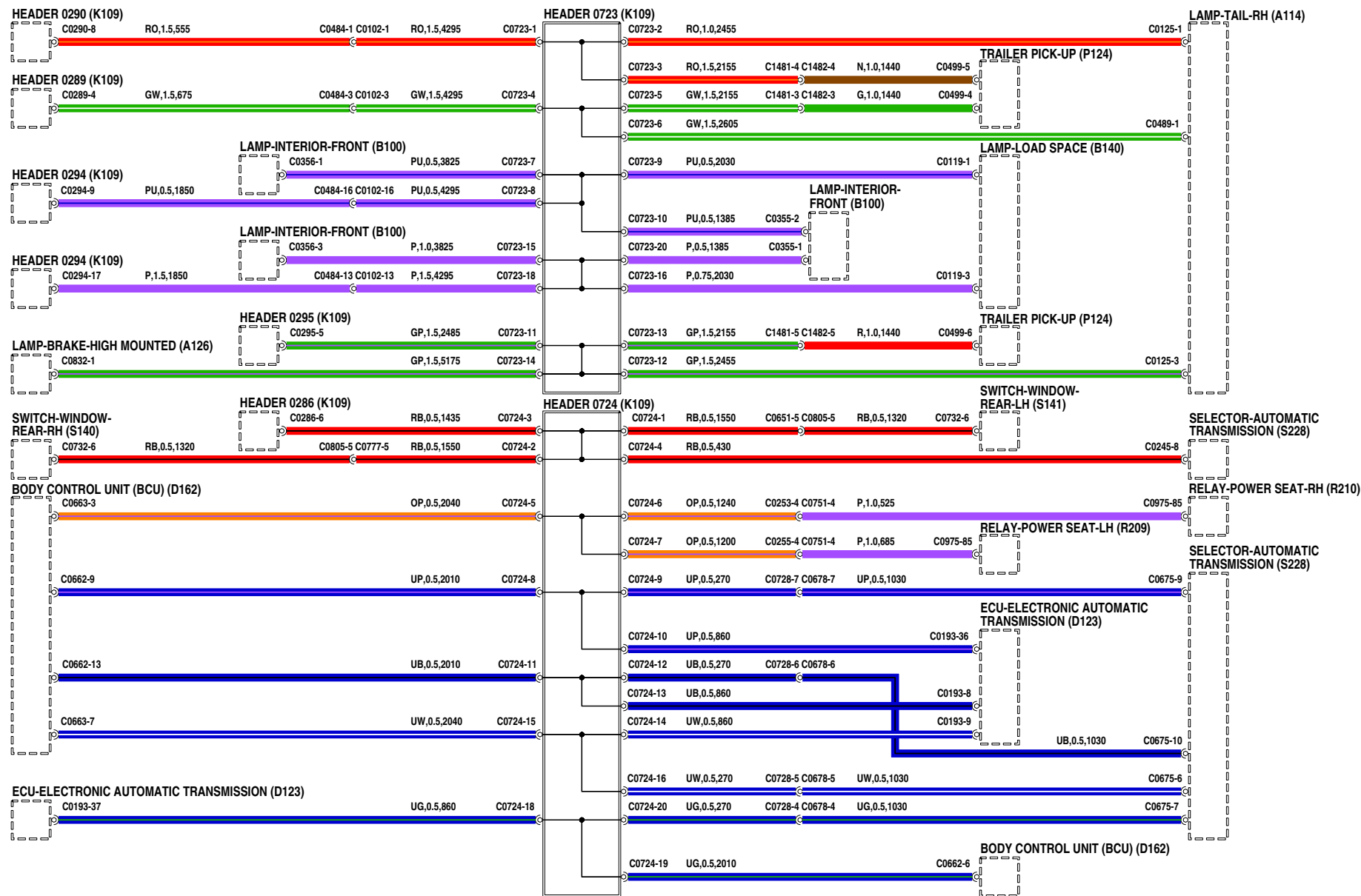
VWR108380-5019

# HEADER JOINTS



VWR108380-6019

# HEADER JOINTS

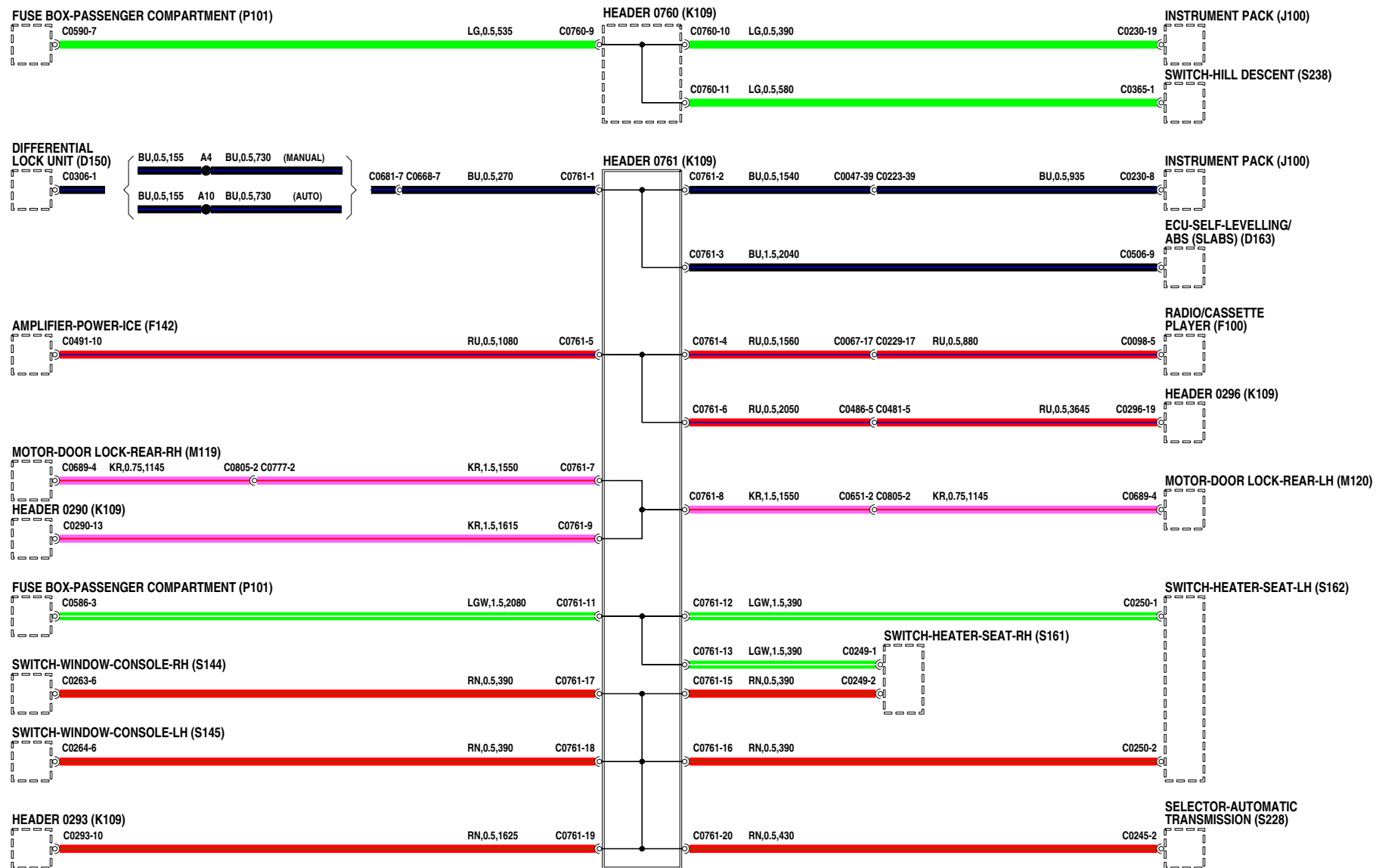


VWR108360-7of9





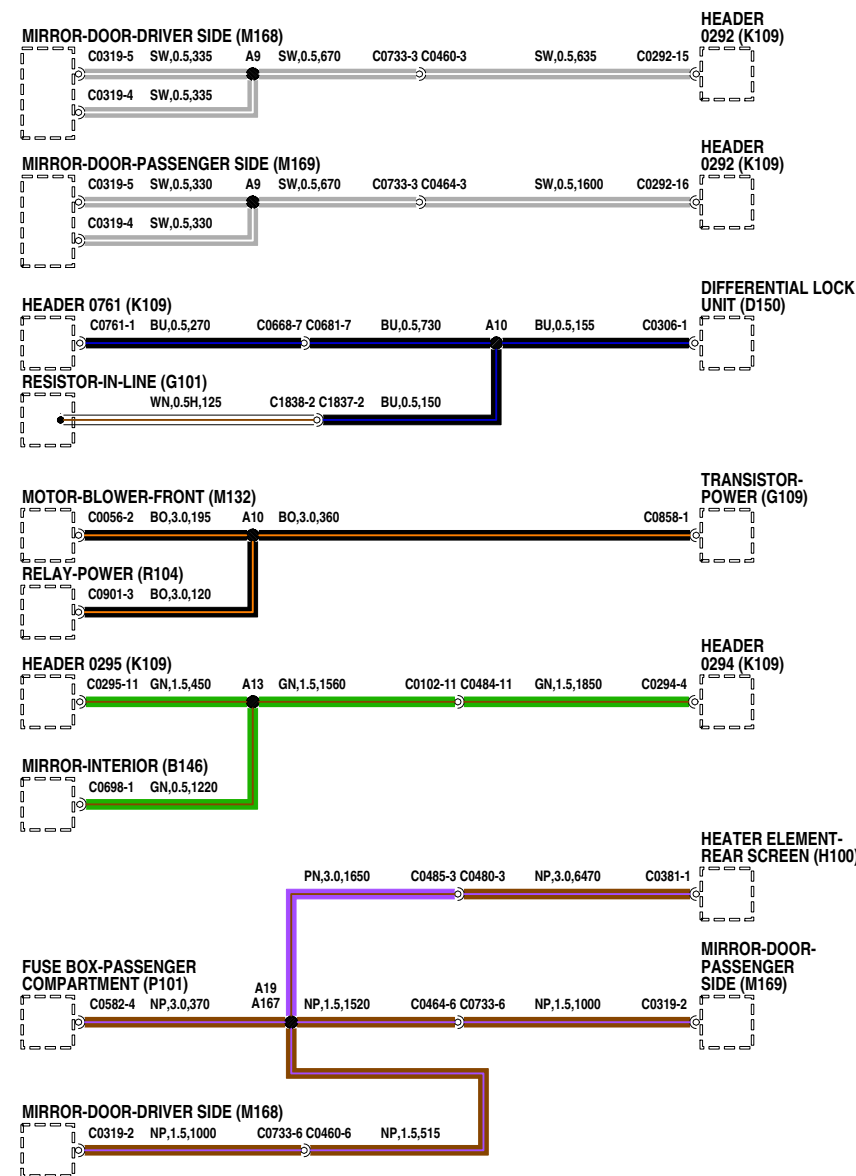
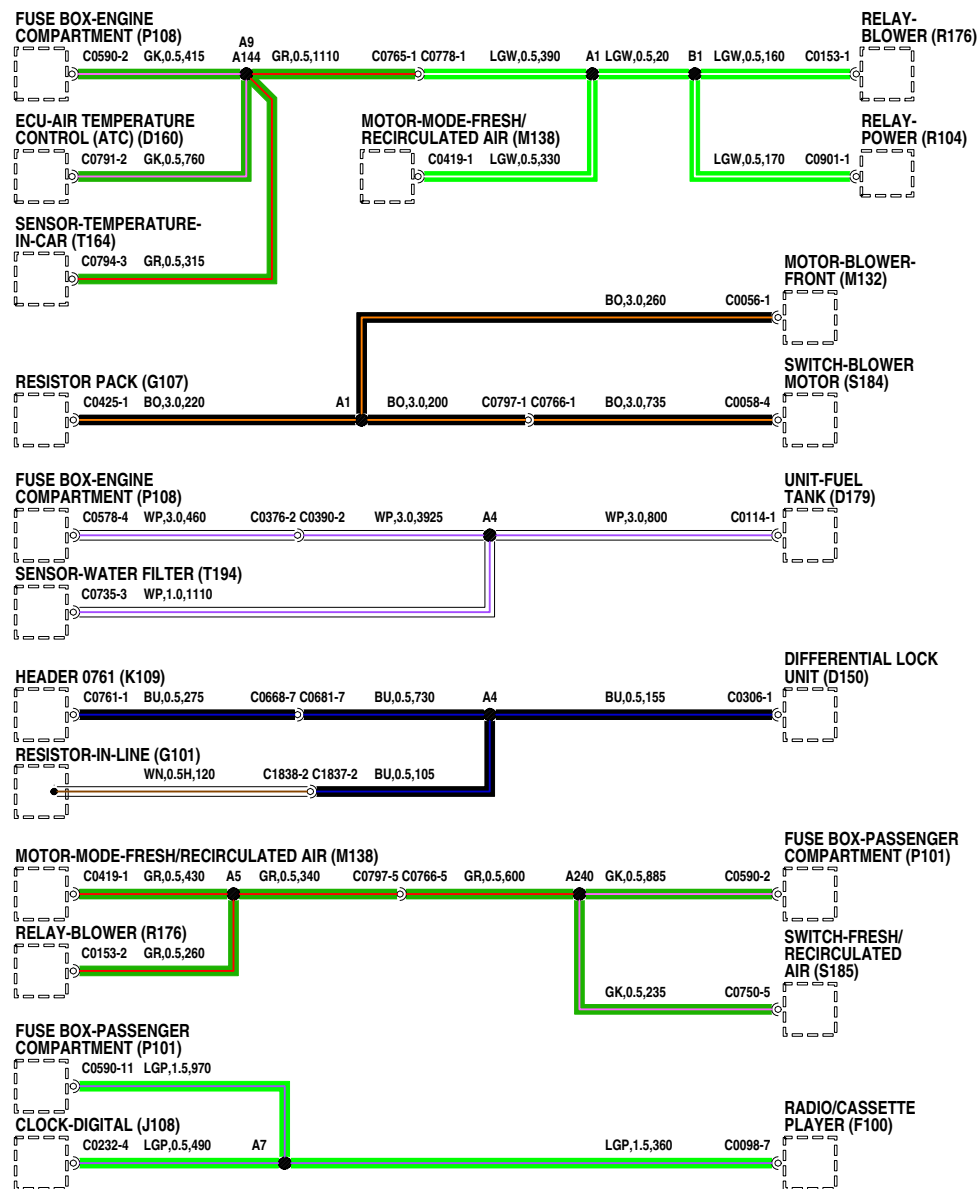
# HEADER JOINTS



VWR108380-9a19

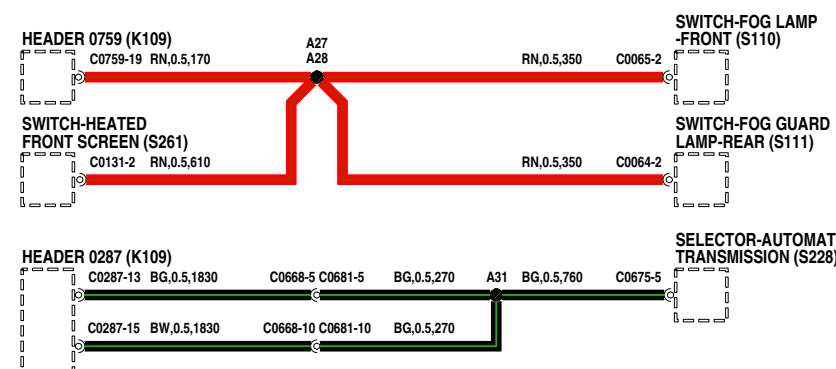
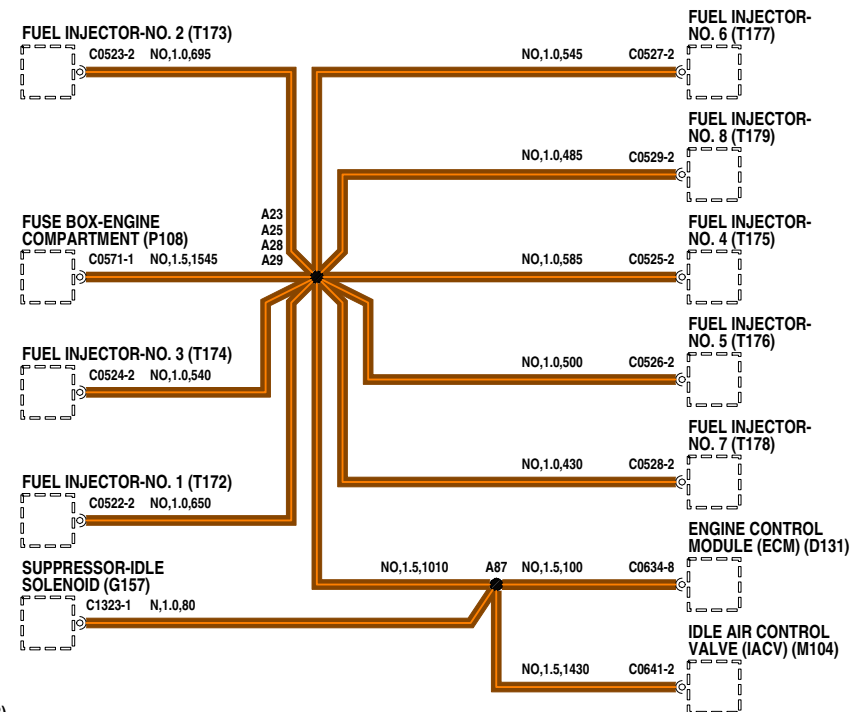
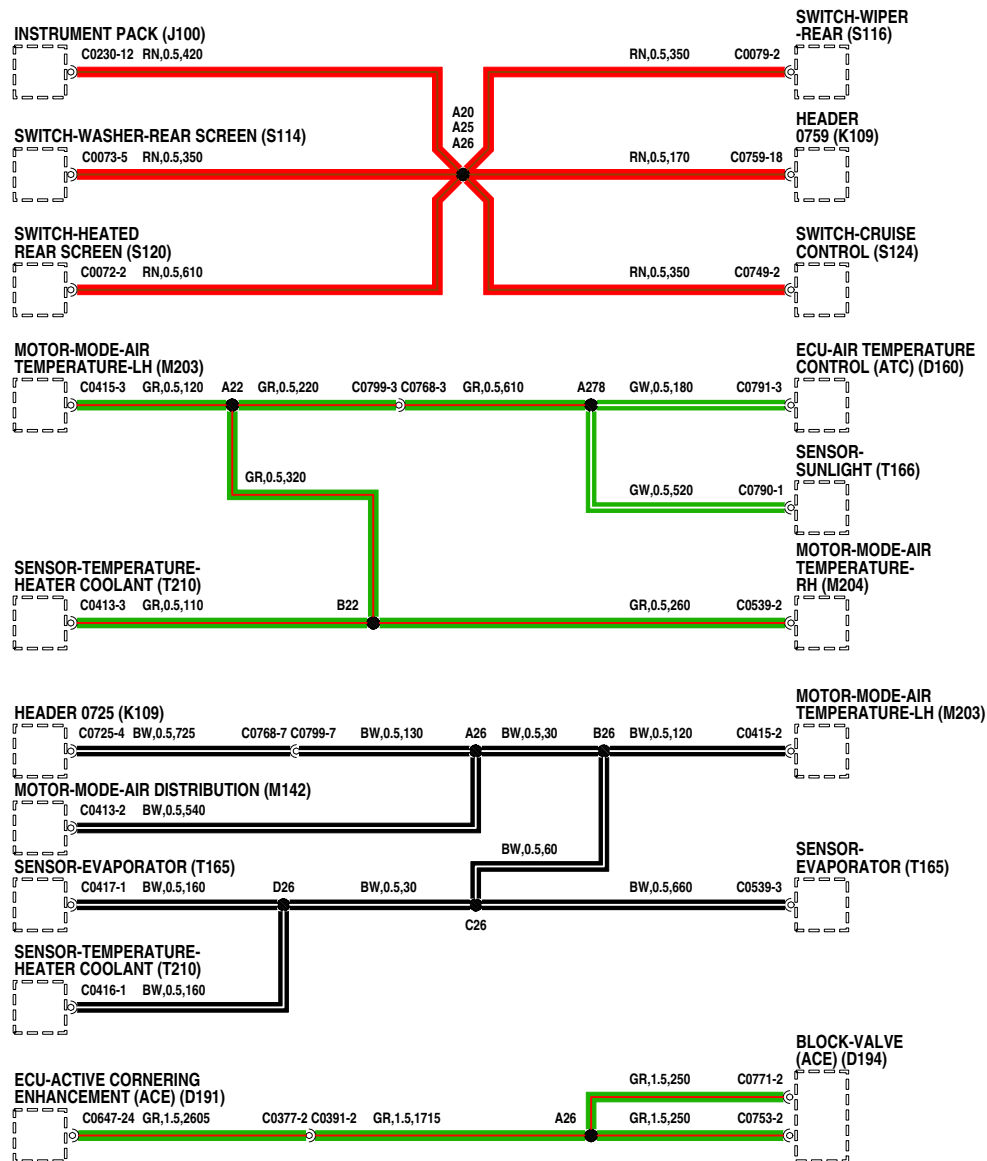


# SPLICES AND CENTRE TAPS

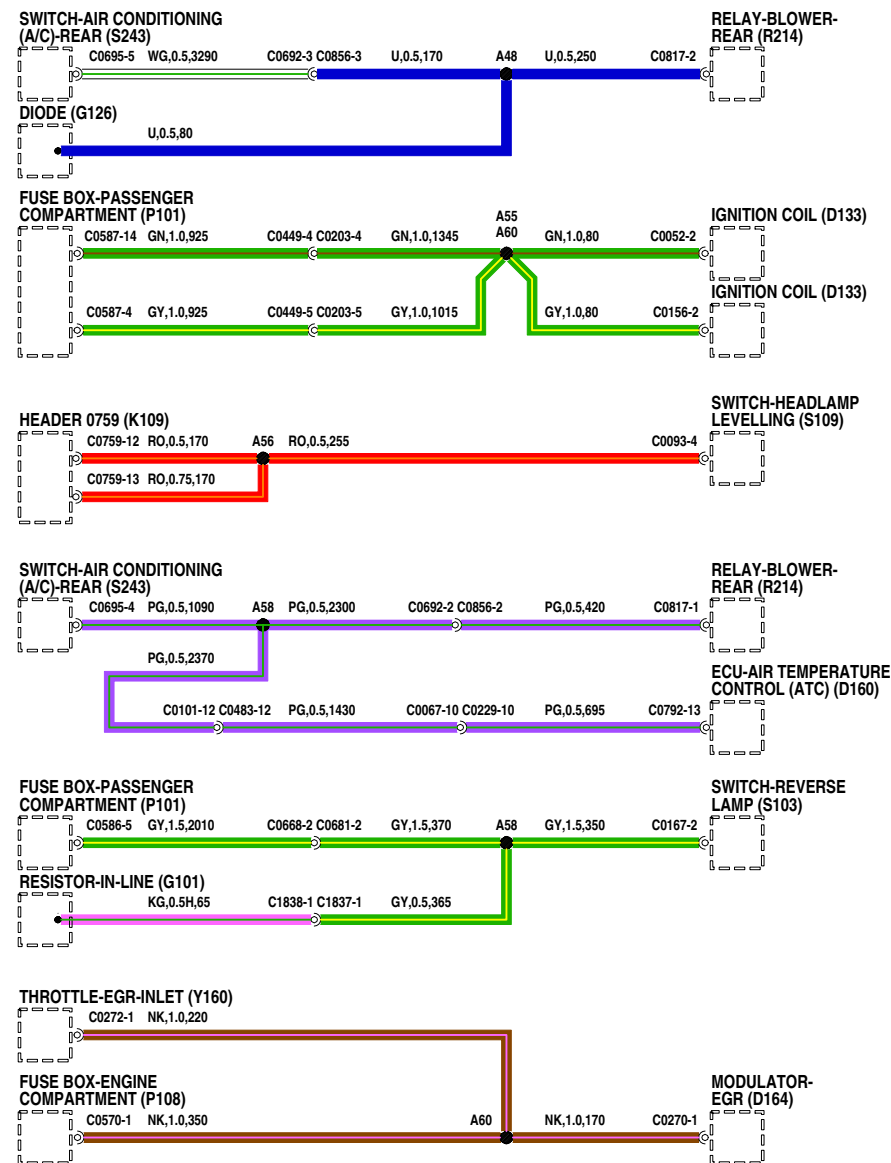
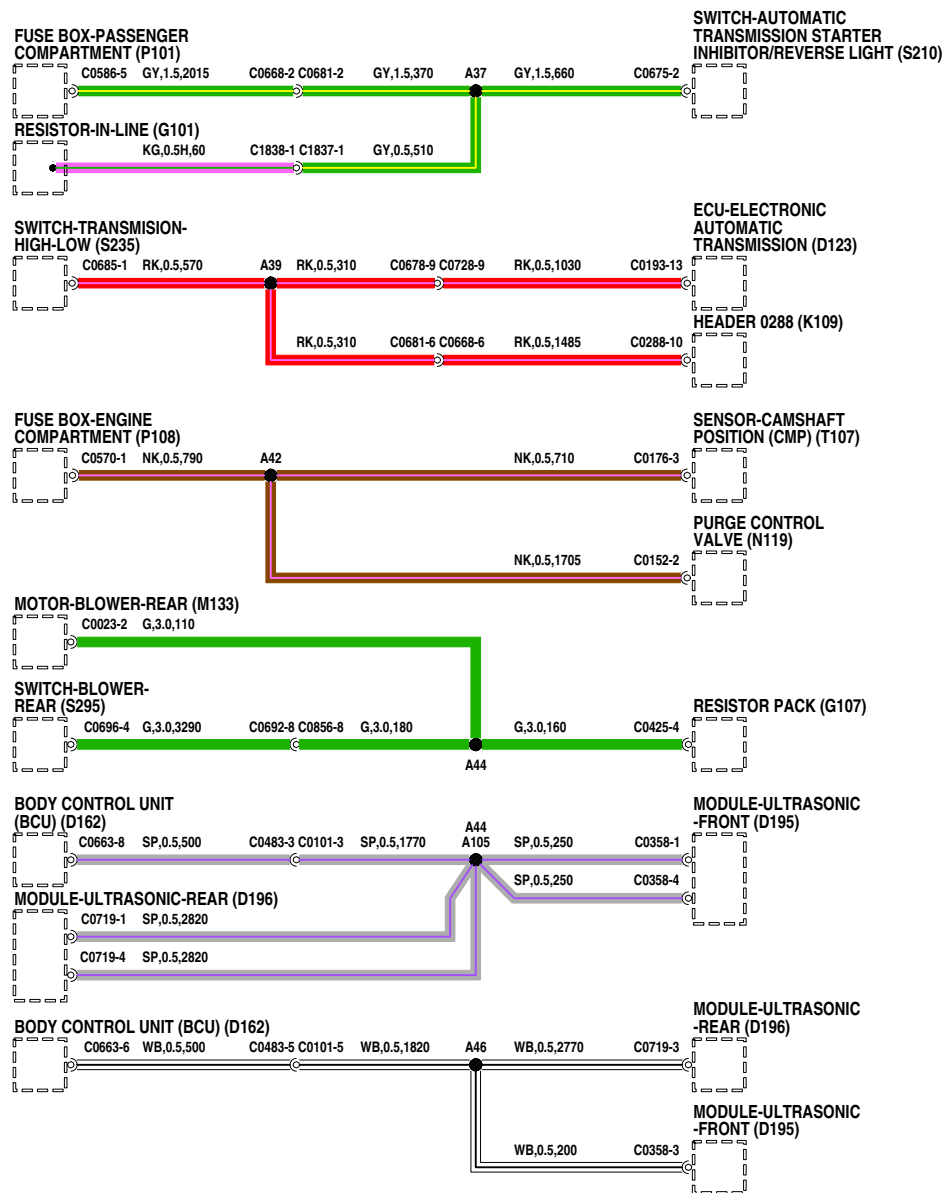


VWR108550-1a05

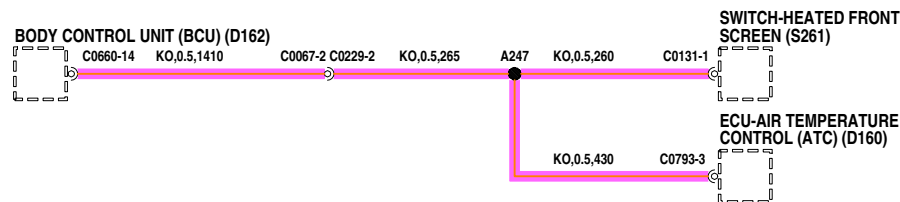
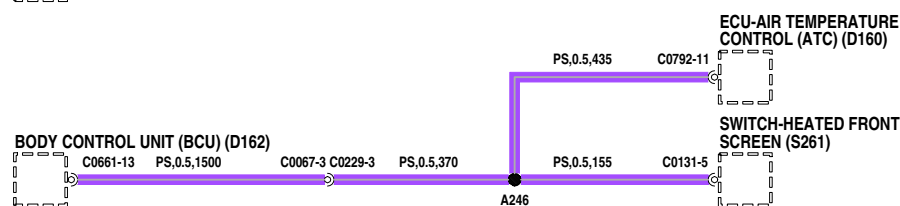
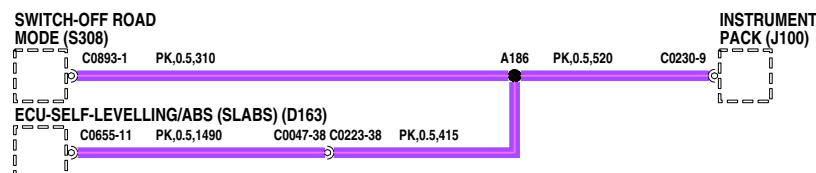
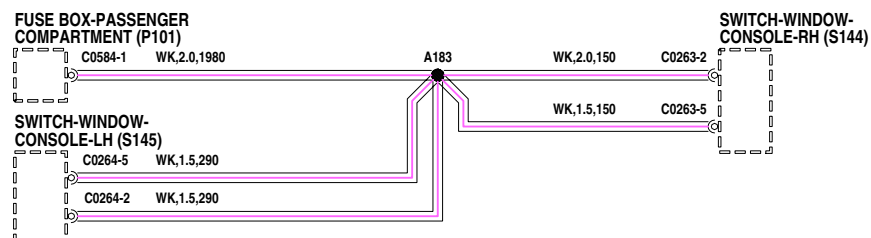
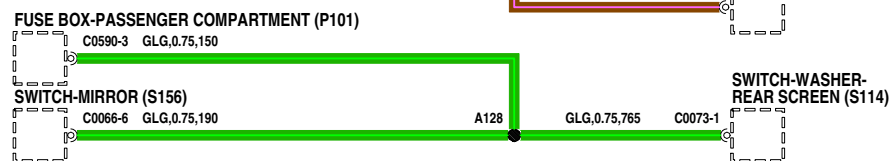
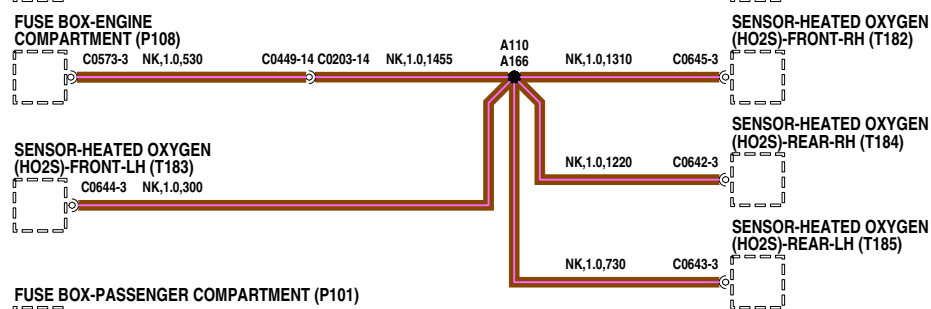
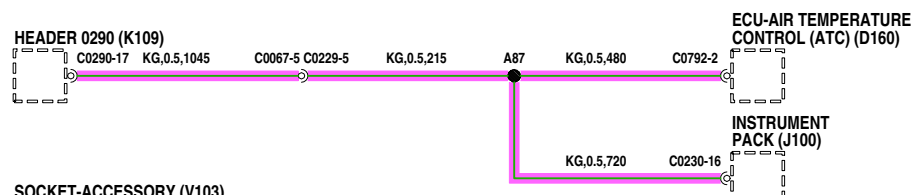
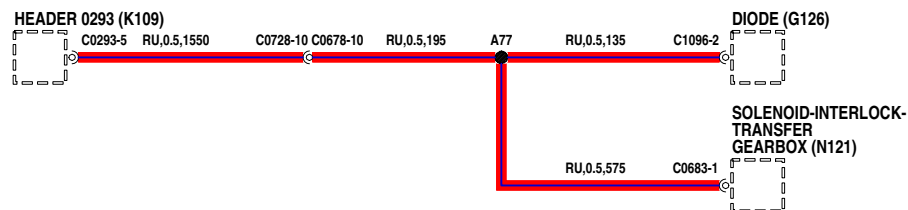
# SPLICES AND CENTRE TAPS



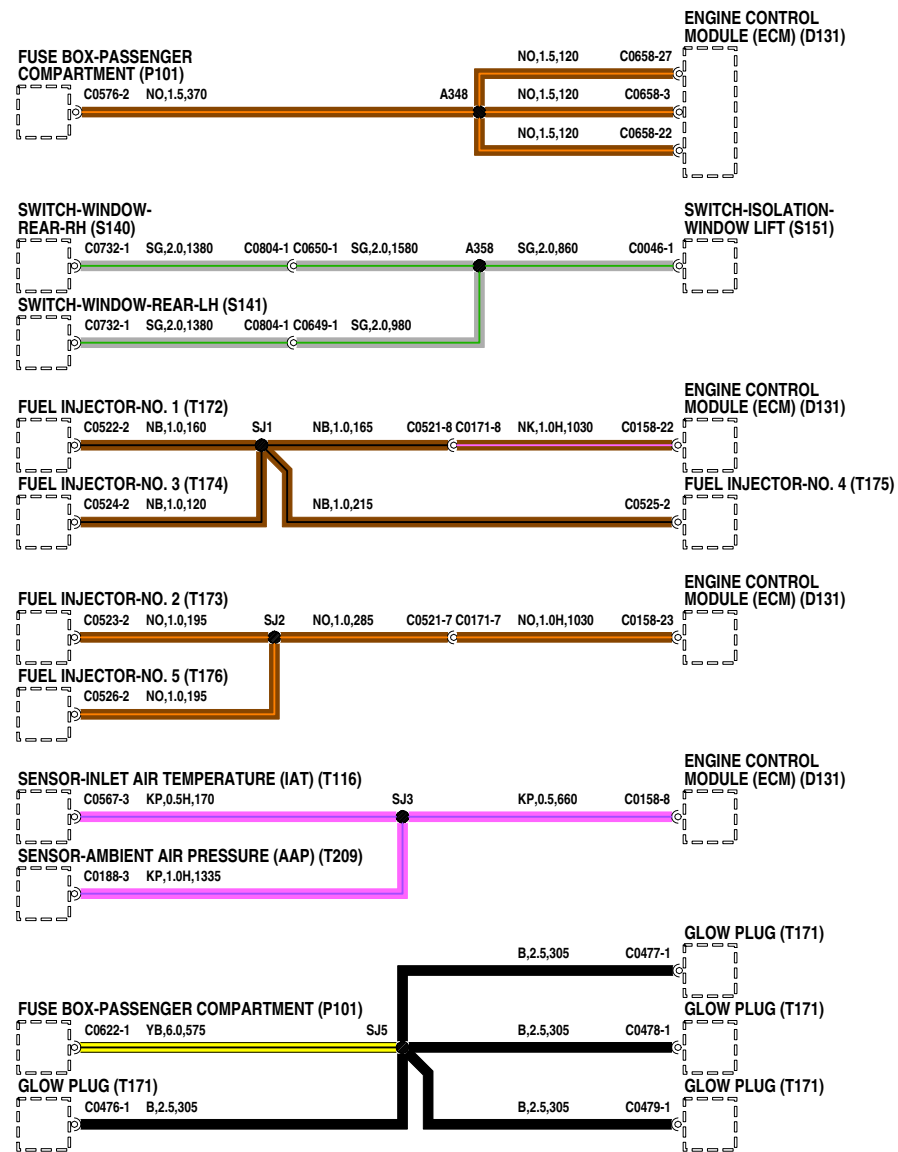
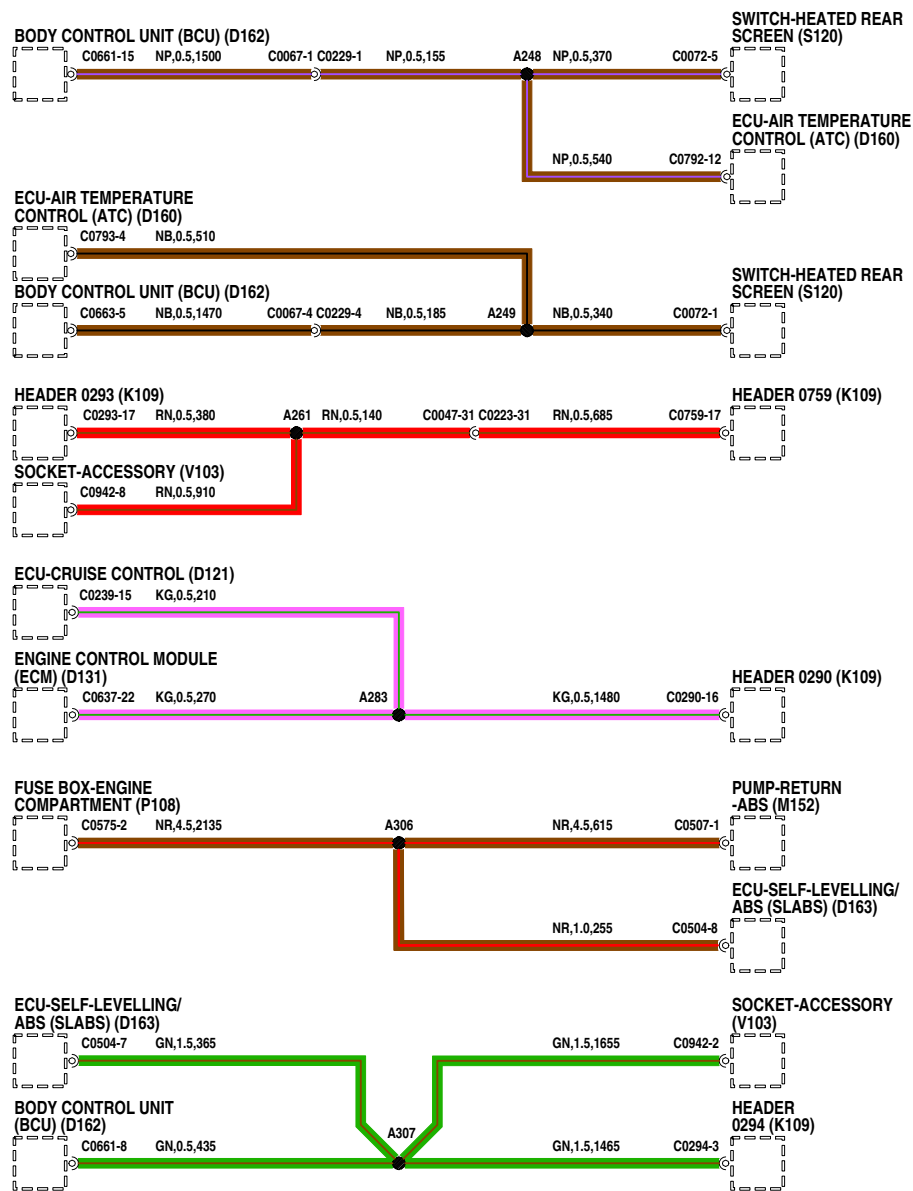
# SPLICES AND CENTRE TAPS



# SPLICES AND CENTRE TAPS



# SPLICES AND CENTRE TAPS



VWR108550-5a15