

Discovery Series II



Electrical Circuit Diagrams

Elektrische Circuitdiagrammen

Schémas électriques

Elektrische Schaltpläne

Schemi elettrici

Esquemas de Circuitos Eléctricos

Diagramas dos Circuitos Eléctricos



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LRL 0436ENX 2nd Edition

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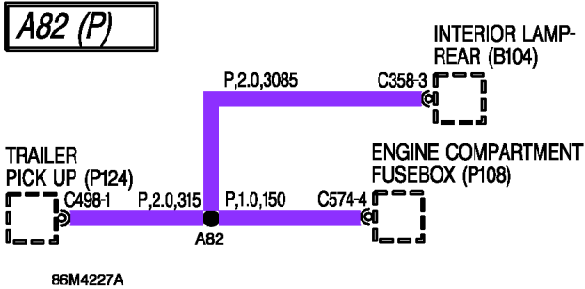
HOW TO USE THE CIRCUIT DIAGRAMS

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 lists the wire type codes together with an explanation of their meaning.

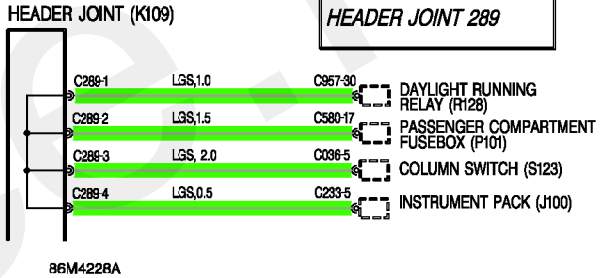
Code	Description
MAB	Twin core screened wire
MAH	Coaxial screened wire
MAT	Twin core double sheath
MCA	Twisted core screened wire
MD*	Twisted core ABS sensor wire
ME*	Twisted pair of wires min. 33 twists per metre
MM*	Twisted pair of wires
MQ*	Twin core foil screened cable
MZ*	Three core screened flexible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

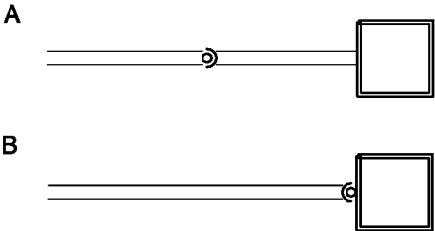
HOW TO USE THE CIRCUIT DIAGRAMS

Line Types



86M4229A

This means the wire connects to another circuit.

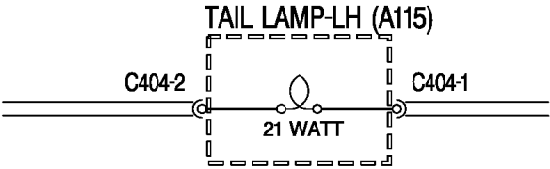


86M4230A

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.

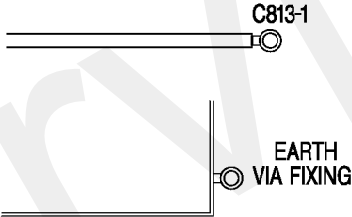
Components



86M4231A

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

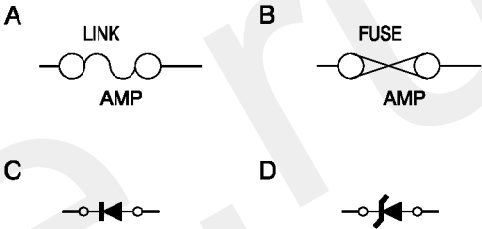
Earth points



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

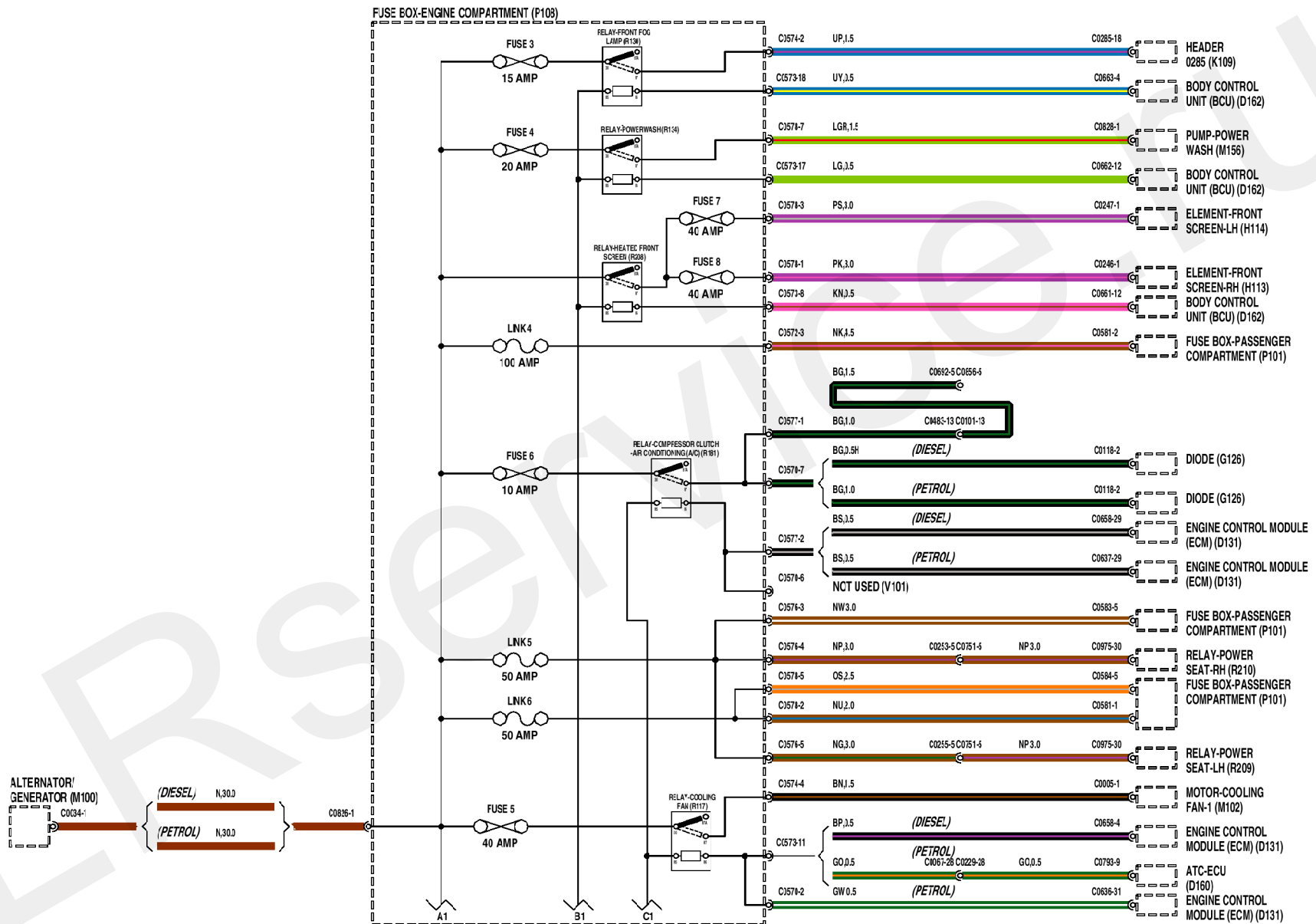


86M4234A

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

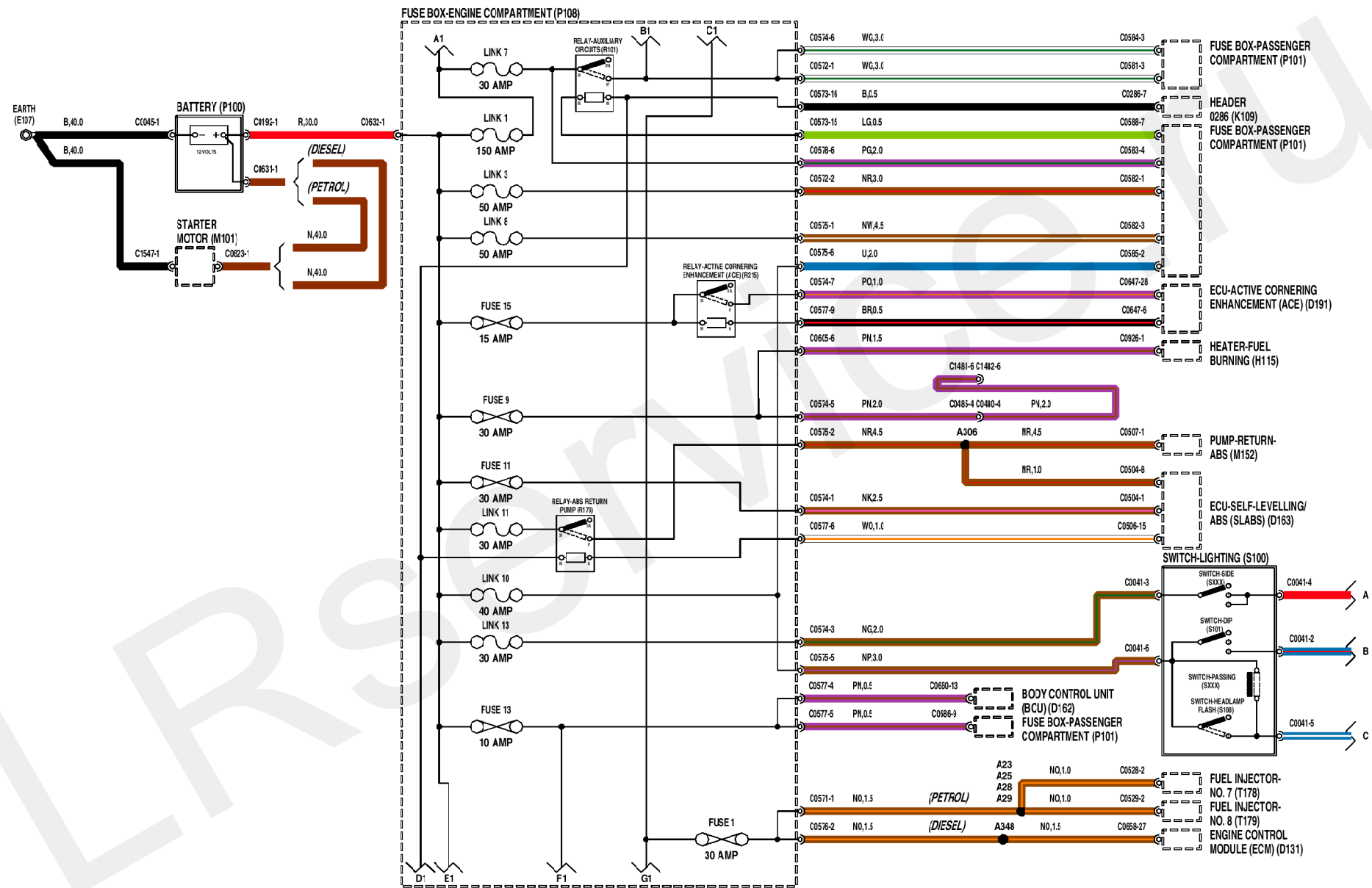
The direction of the arrow in a Diode symbol (C) indicates the direction of current flow. The Zener diode (D) - prevents current flow until a precise voltage is reached.

POWER DISTRIBUTION ENGINE COMPARTMENT FUSE BOX



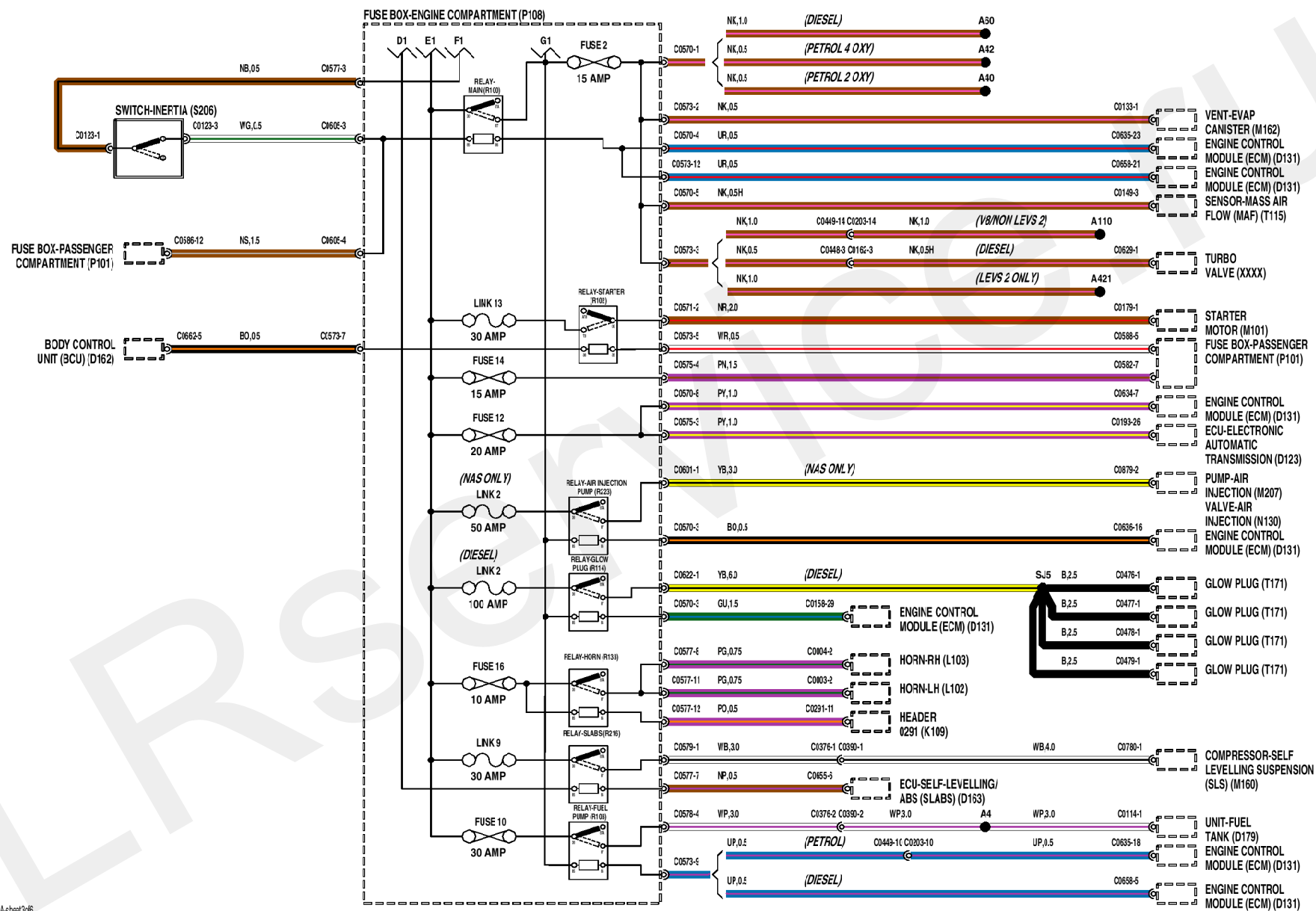
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POWER DISTRIBUTION ENGINE COMPARTMENT FUSE BOX

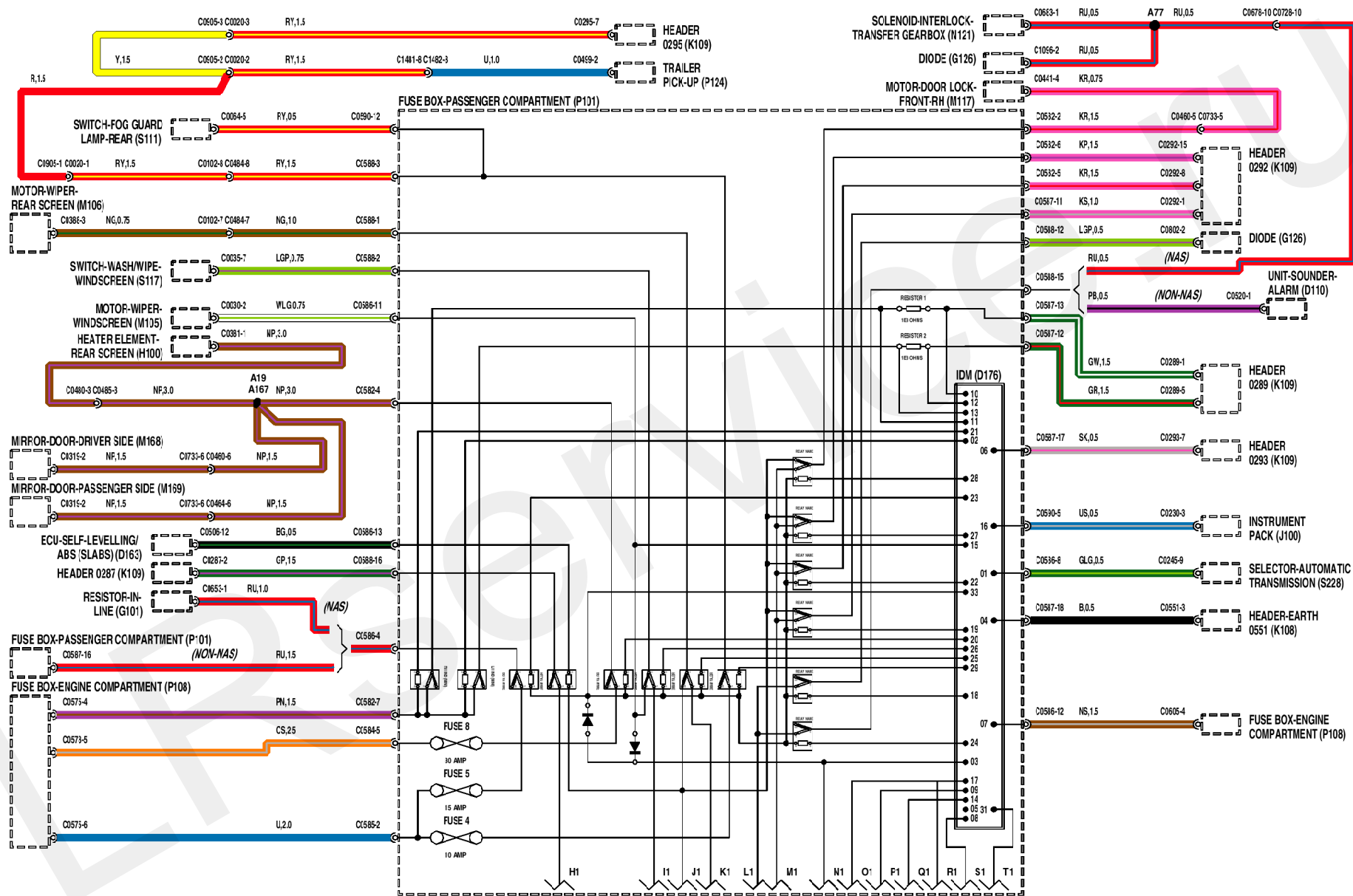


POWER DISTRIBUTION

ENGINE COMPARTMENT FUSE BOX



POWER DISTRIBUTION PASSENGER COMPARTMENT FUSE BOX



VWR102180-A-sheet4of6

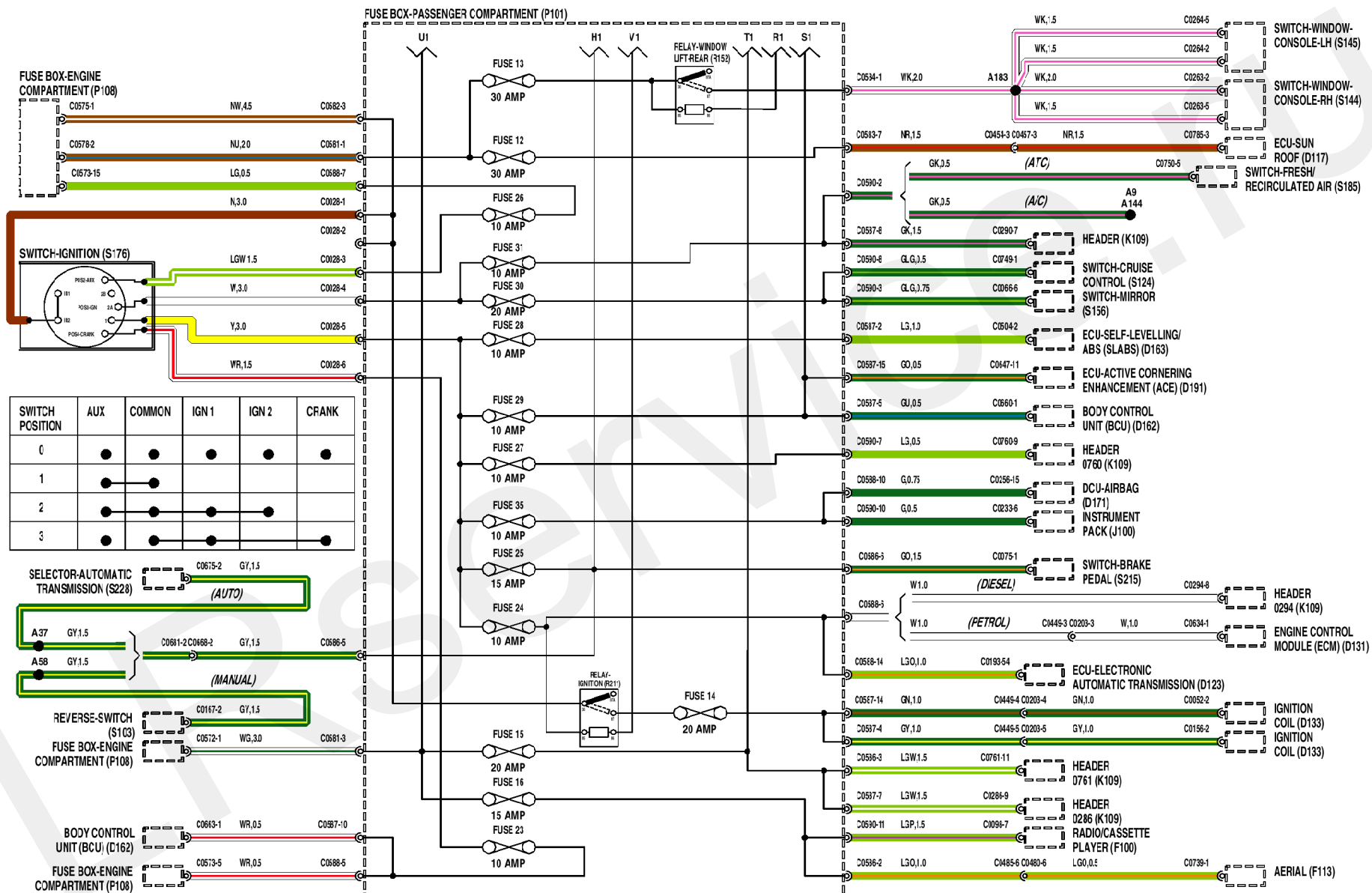
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PASSENGER COMPARTMENT FUSE BOX



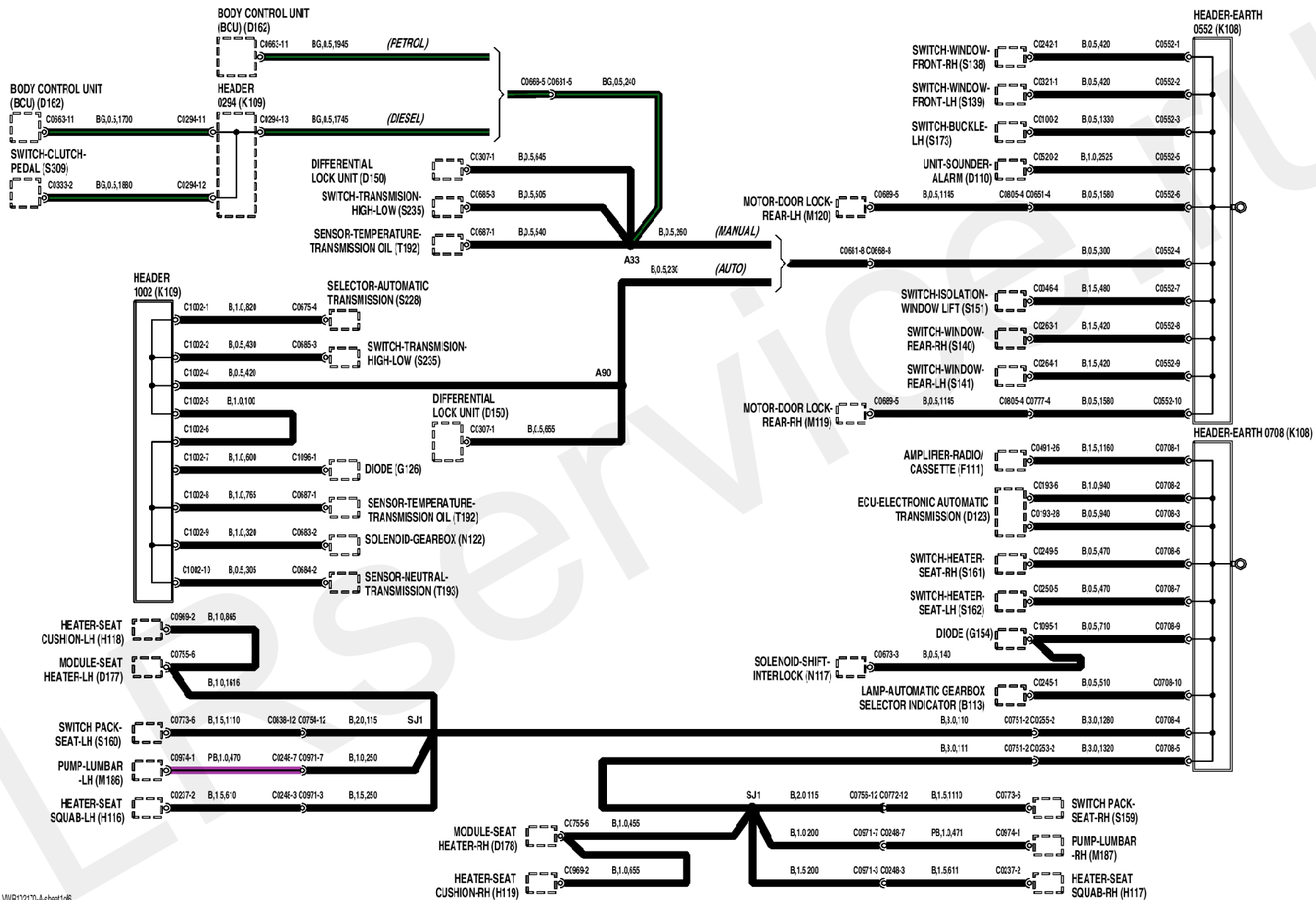
POWER DISTRIBUTION

PASSENGER COMPARTMENT FUSE BOX



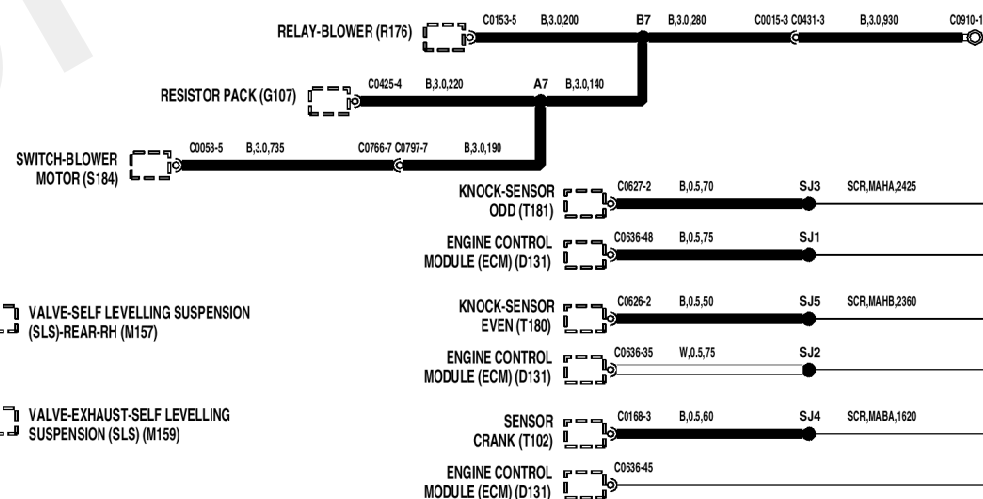
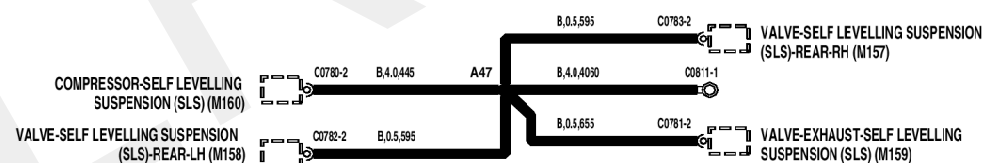
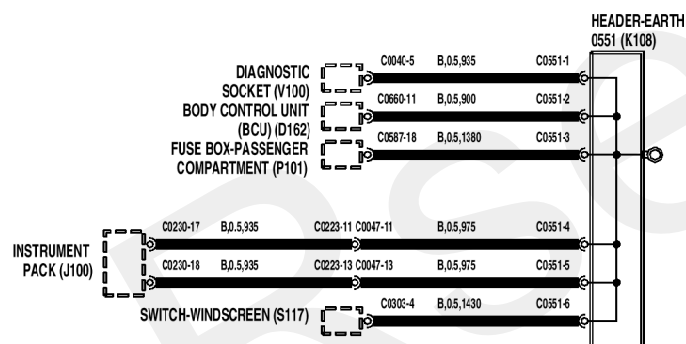
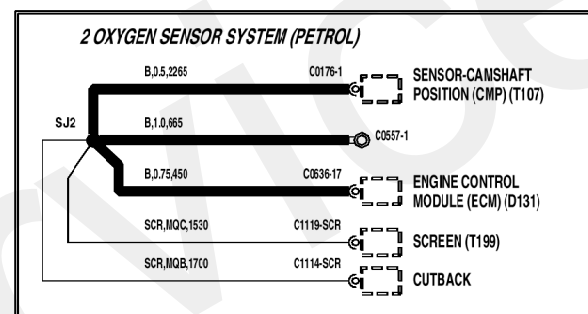
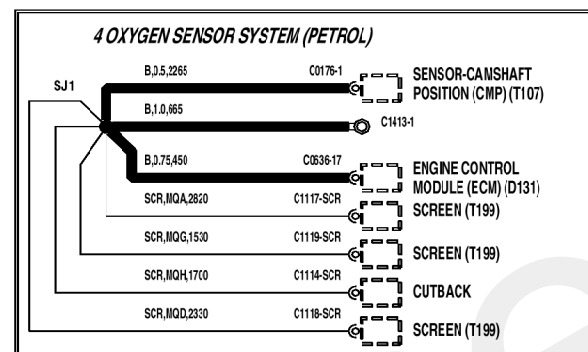
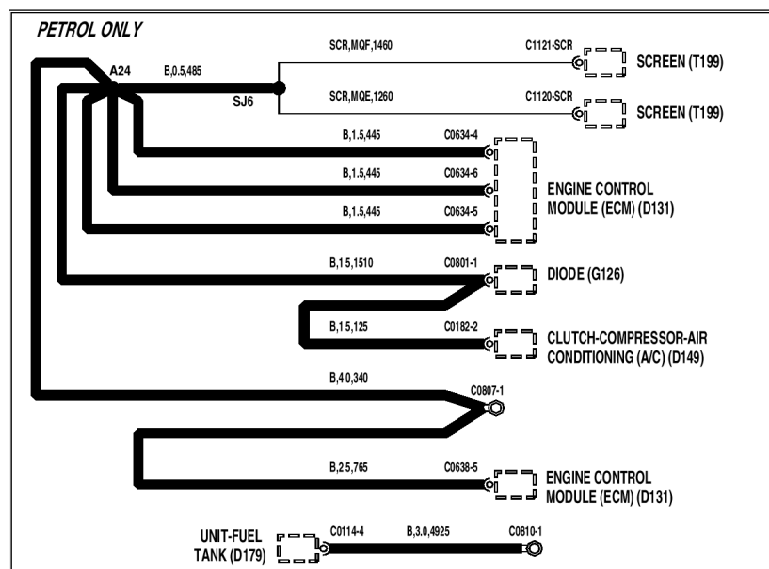
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EARTH DISTRIBUTION



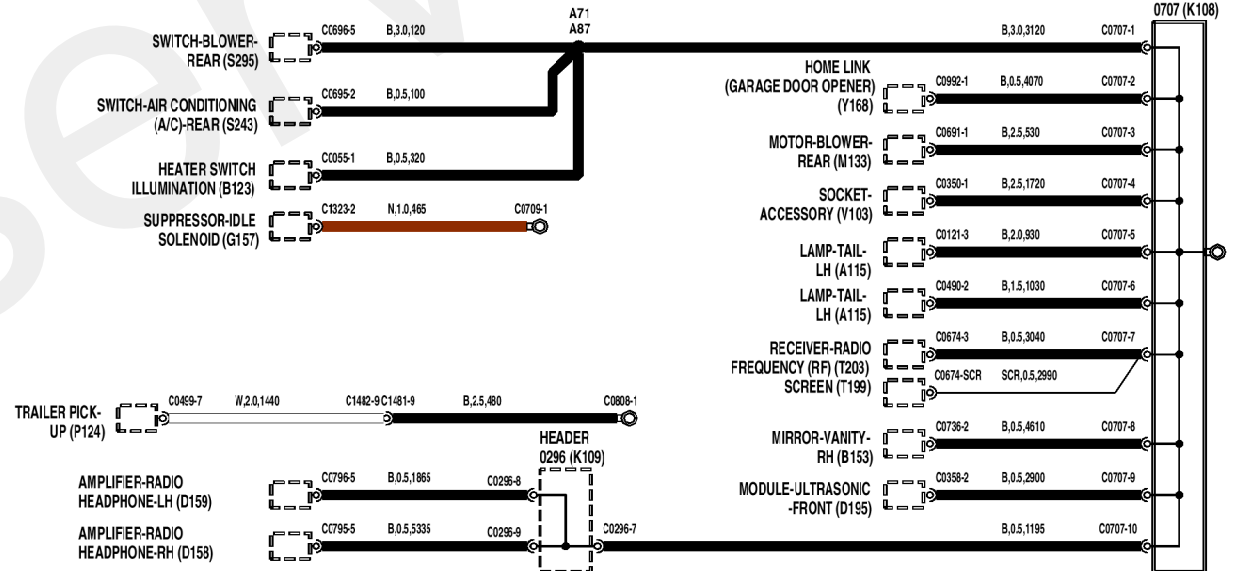
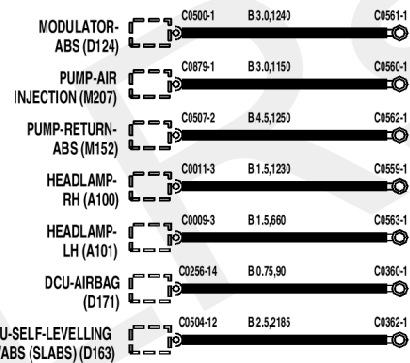
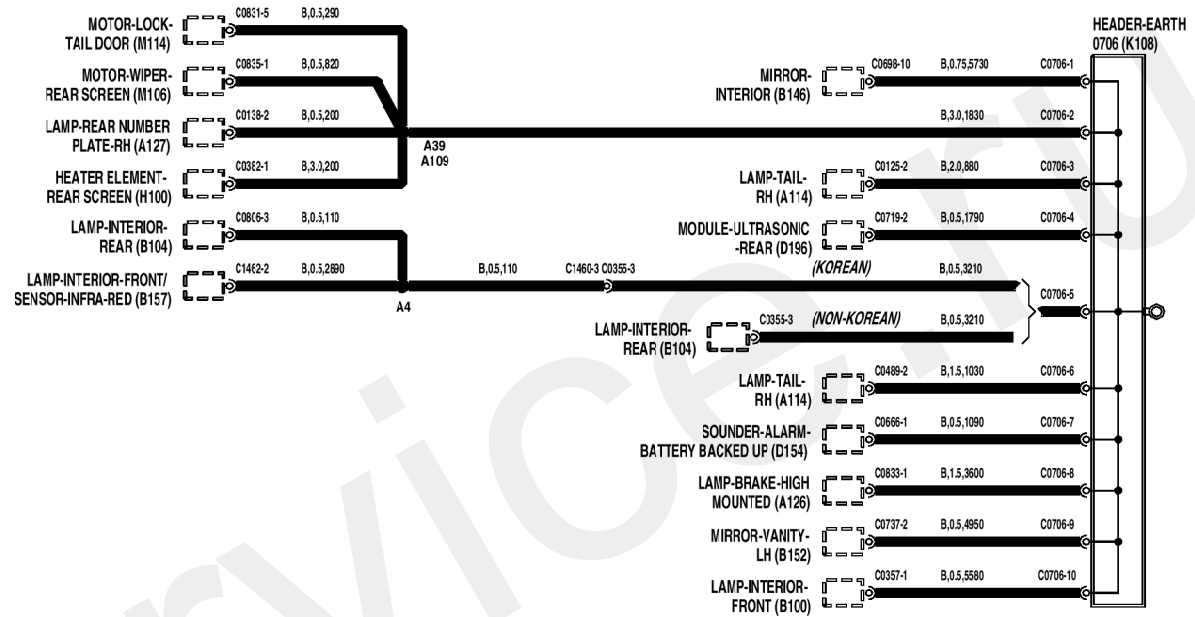
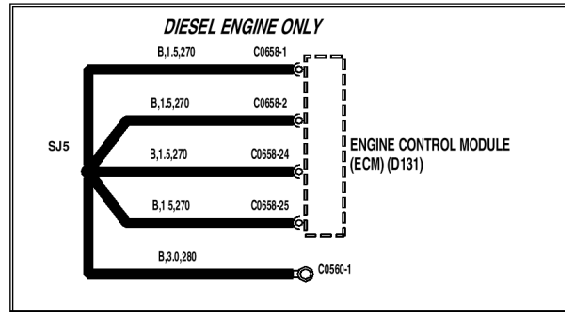
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EARTH DISTRIBUTION



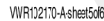
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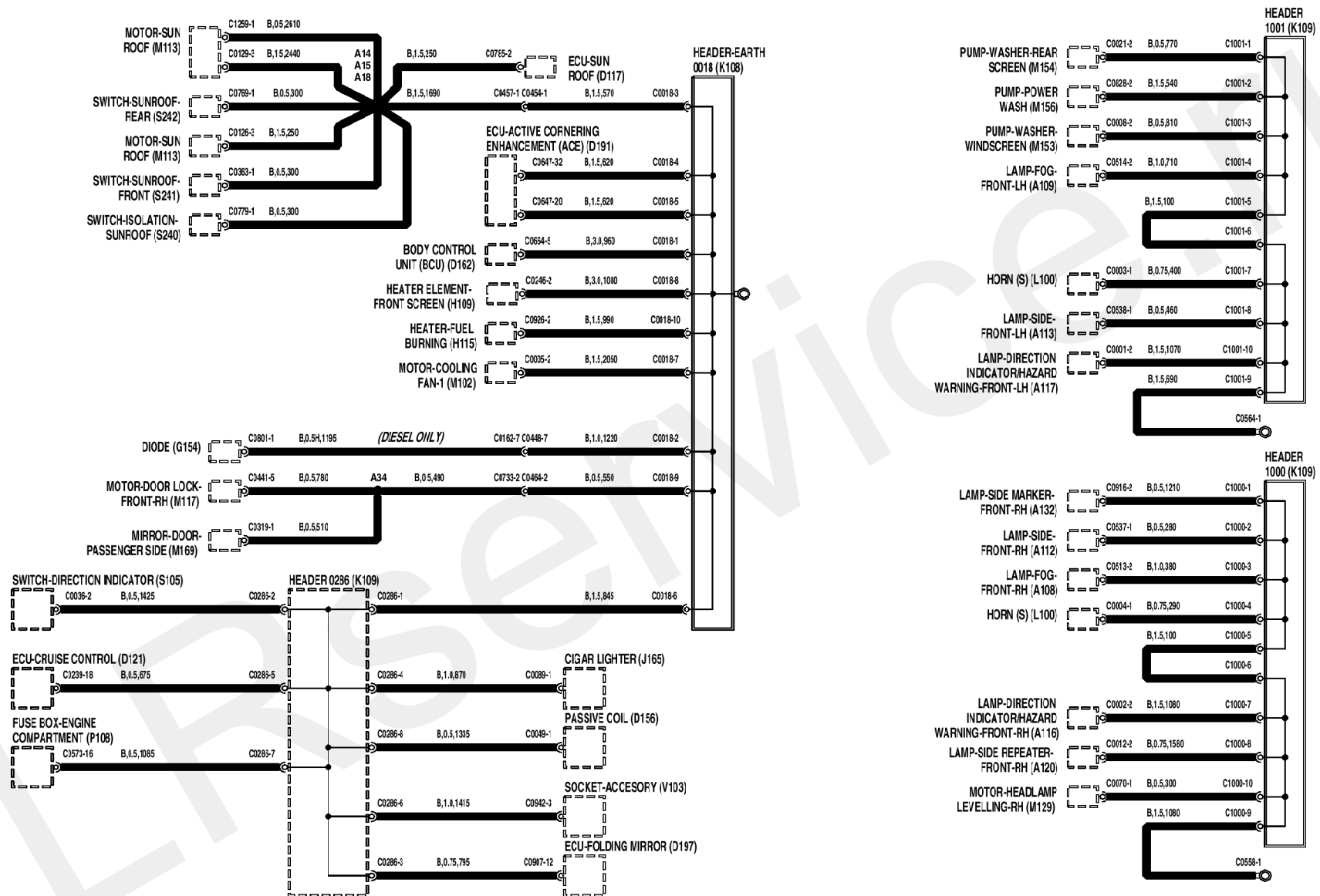


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DISCOVERY SERIES II 2000MY (LHD)

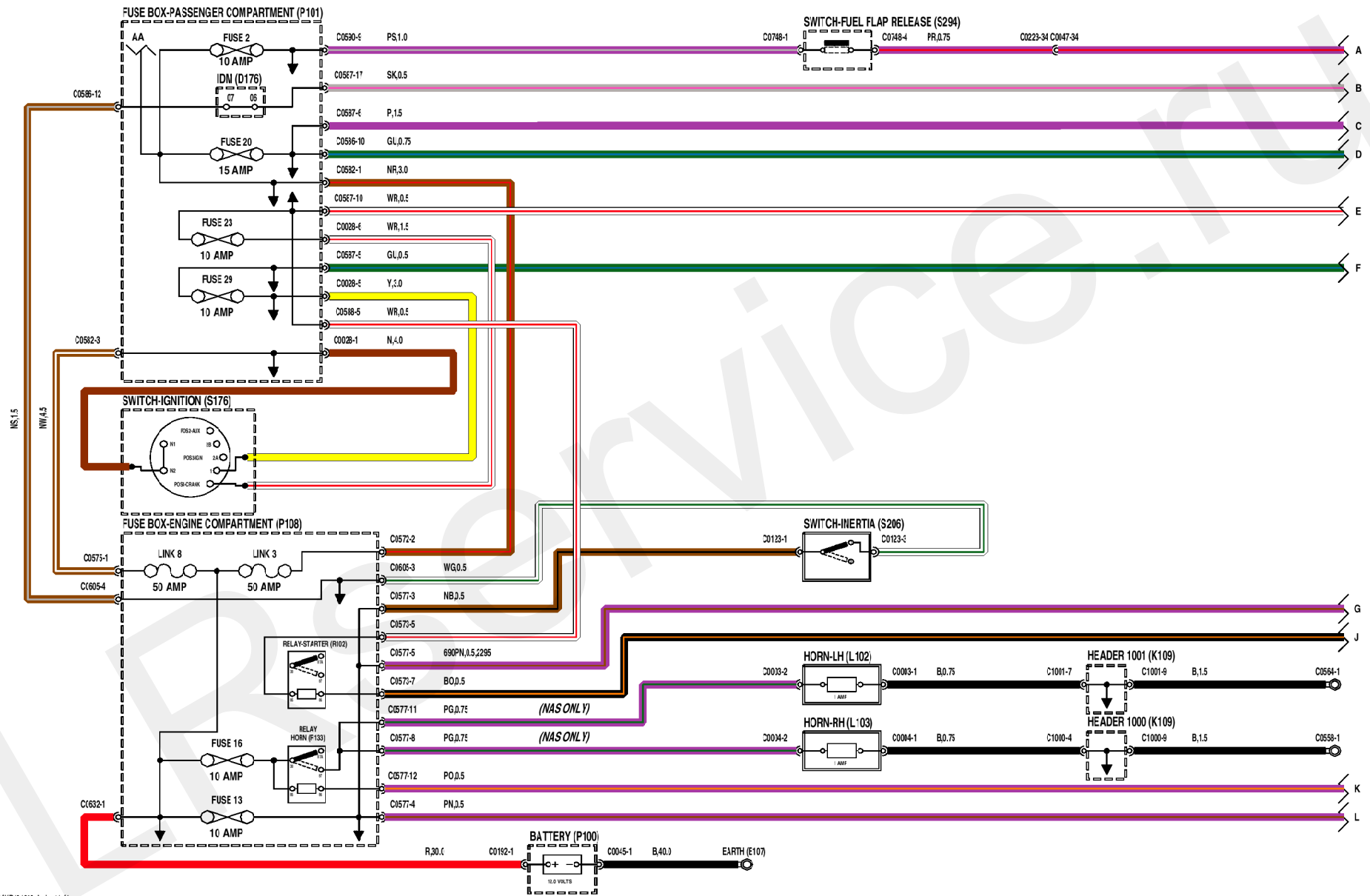


EARTH DISTRIBUTION



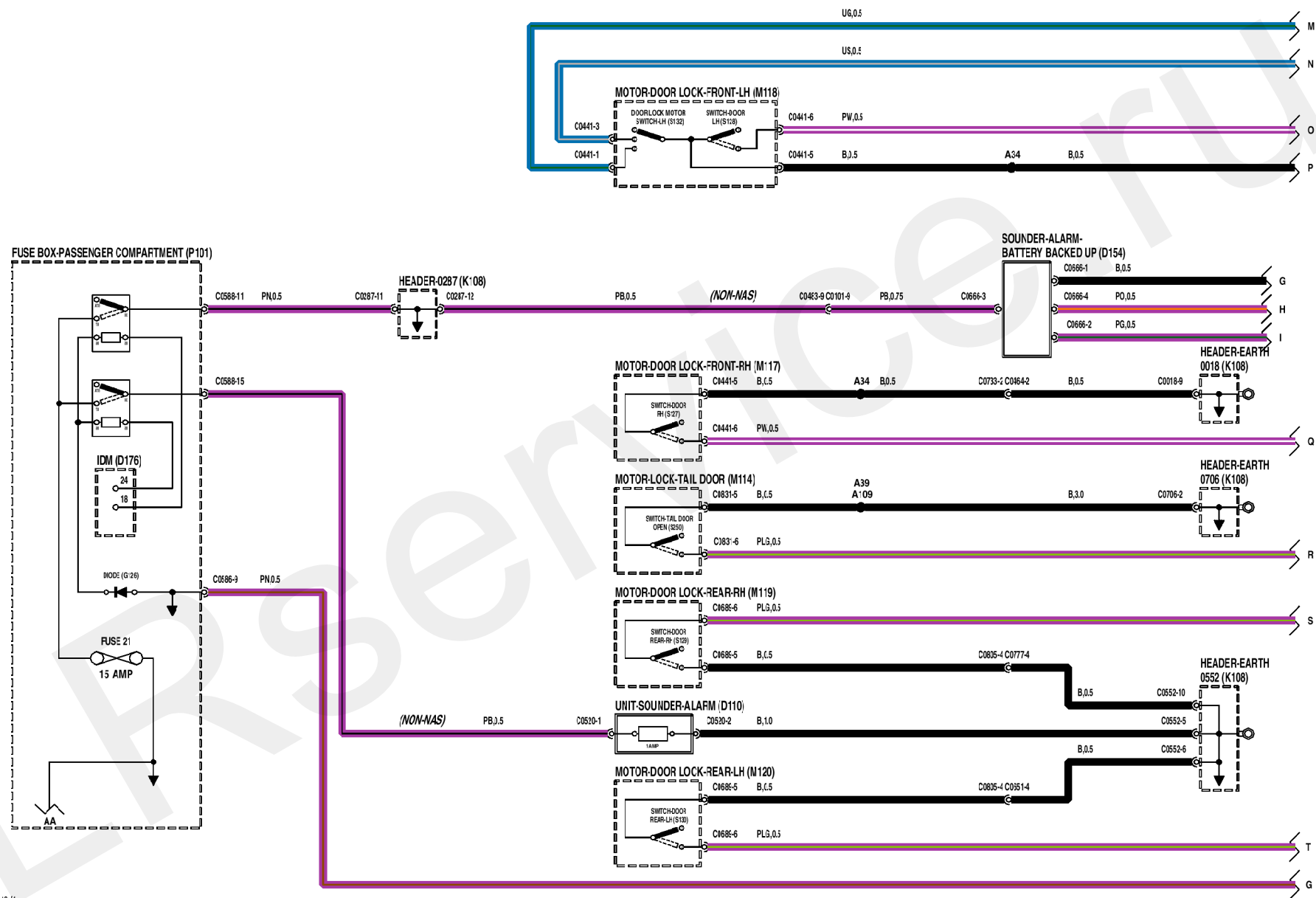
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ANTI-THEFT ALARM



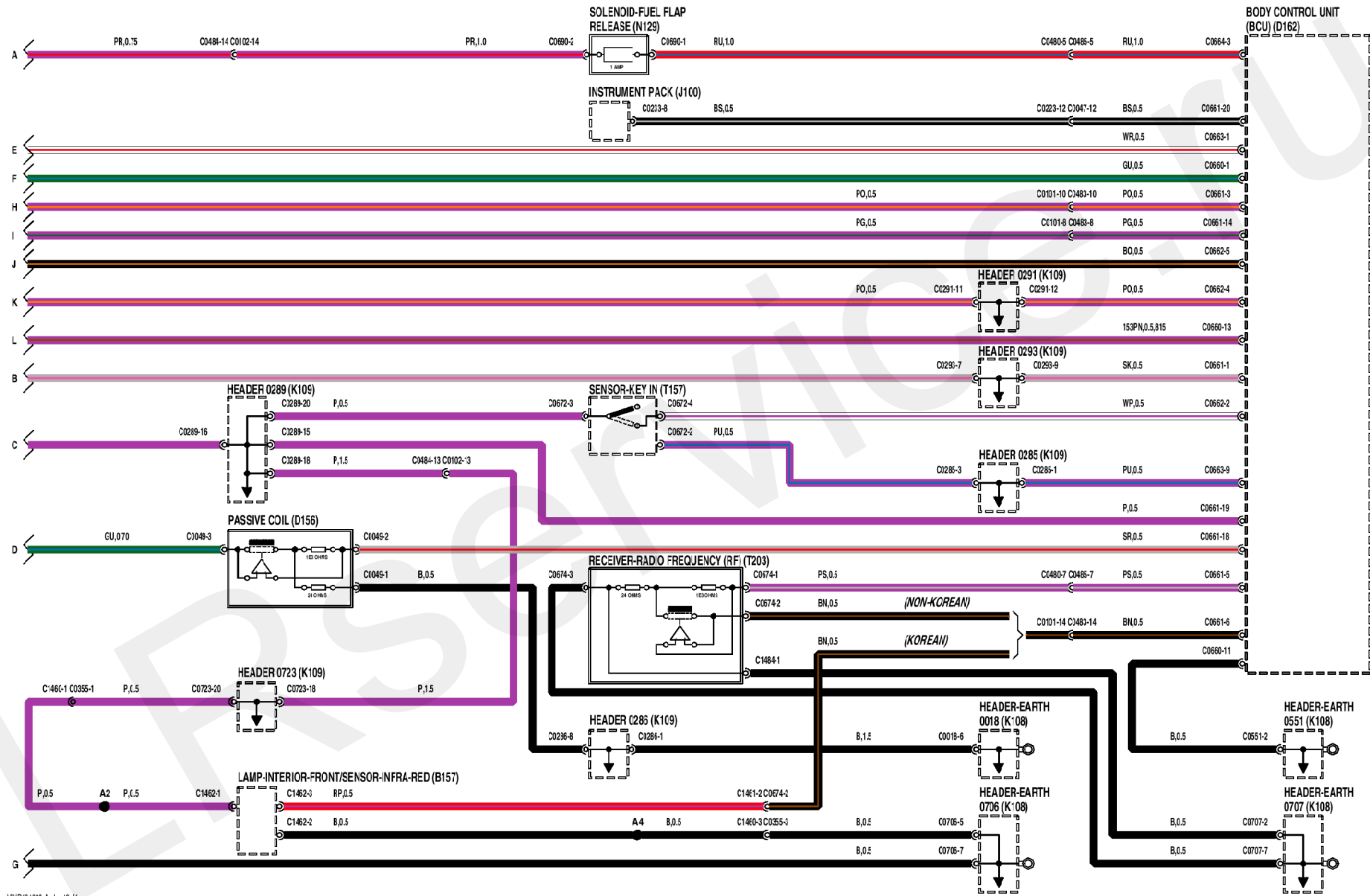
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ANTI-THEFT ALARM



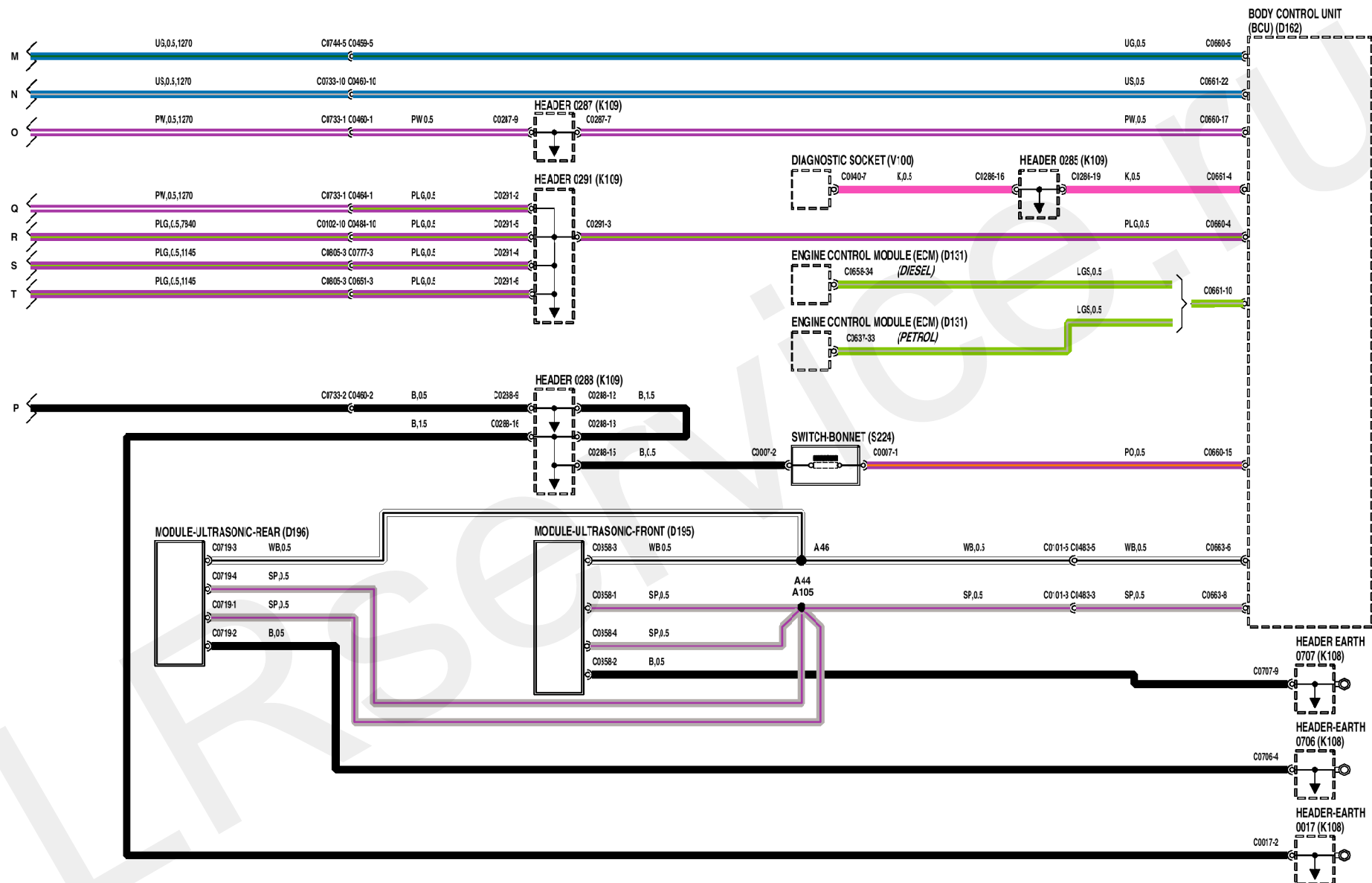
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ANTI-THEFT ALARM



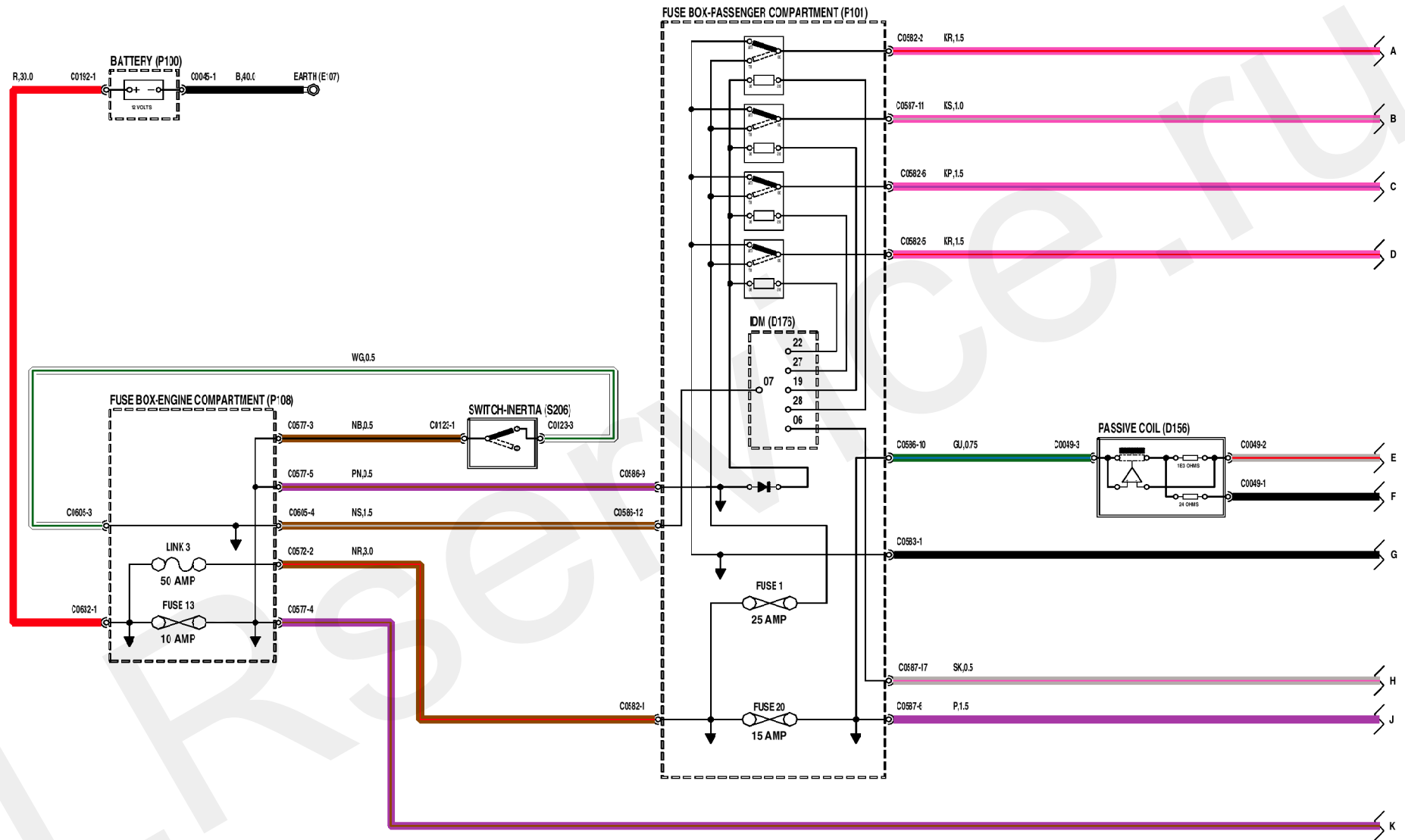
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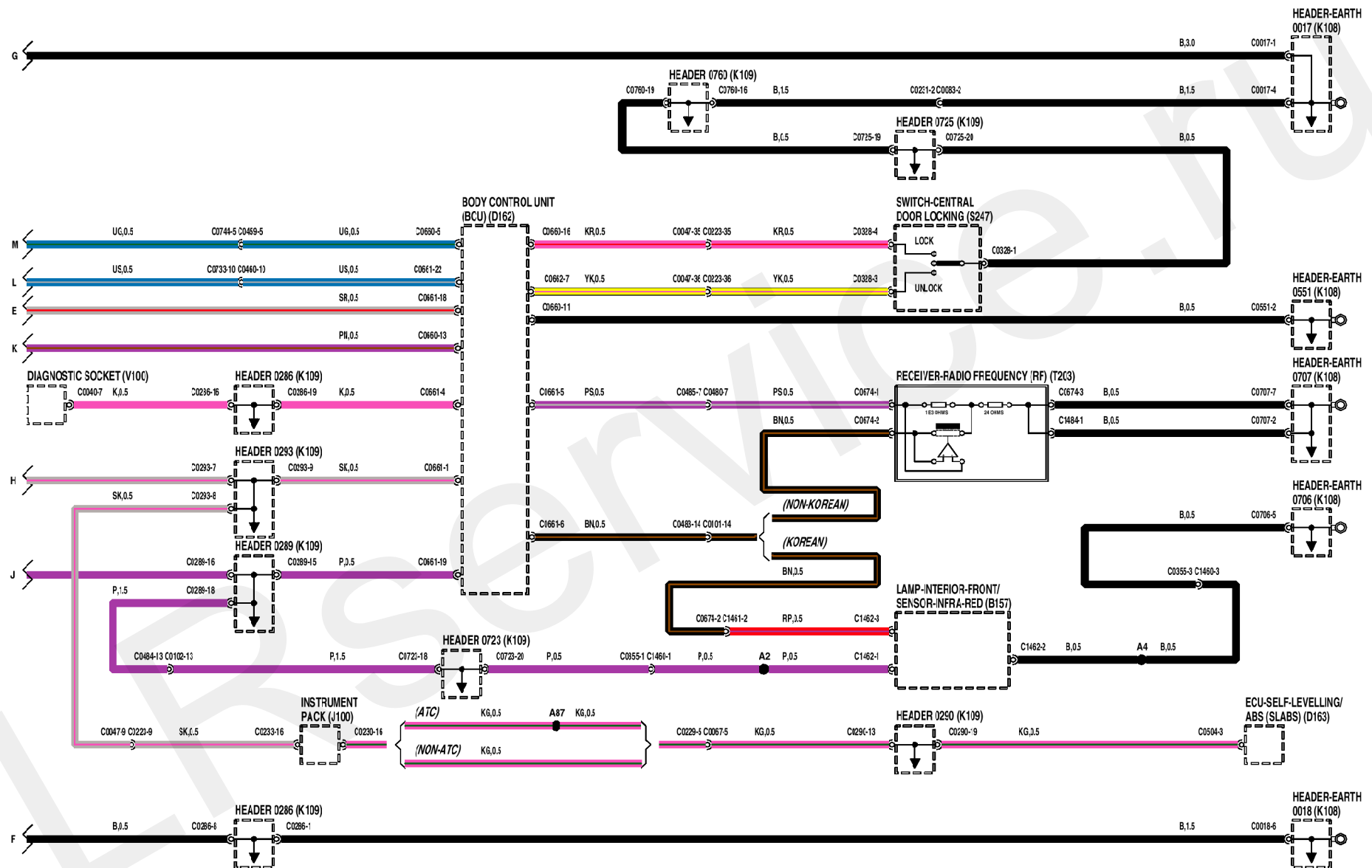
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CENTRAL DOOR LOCKING



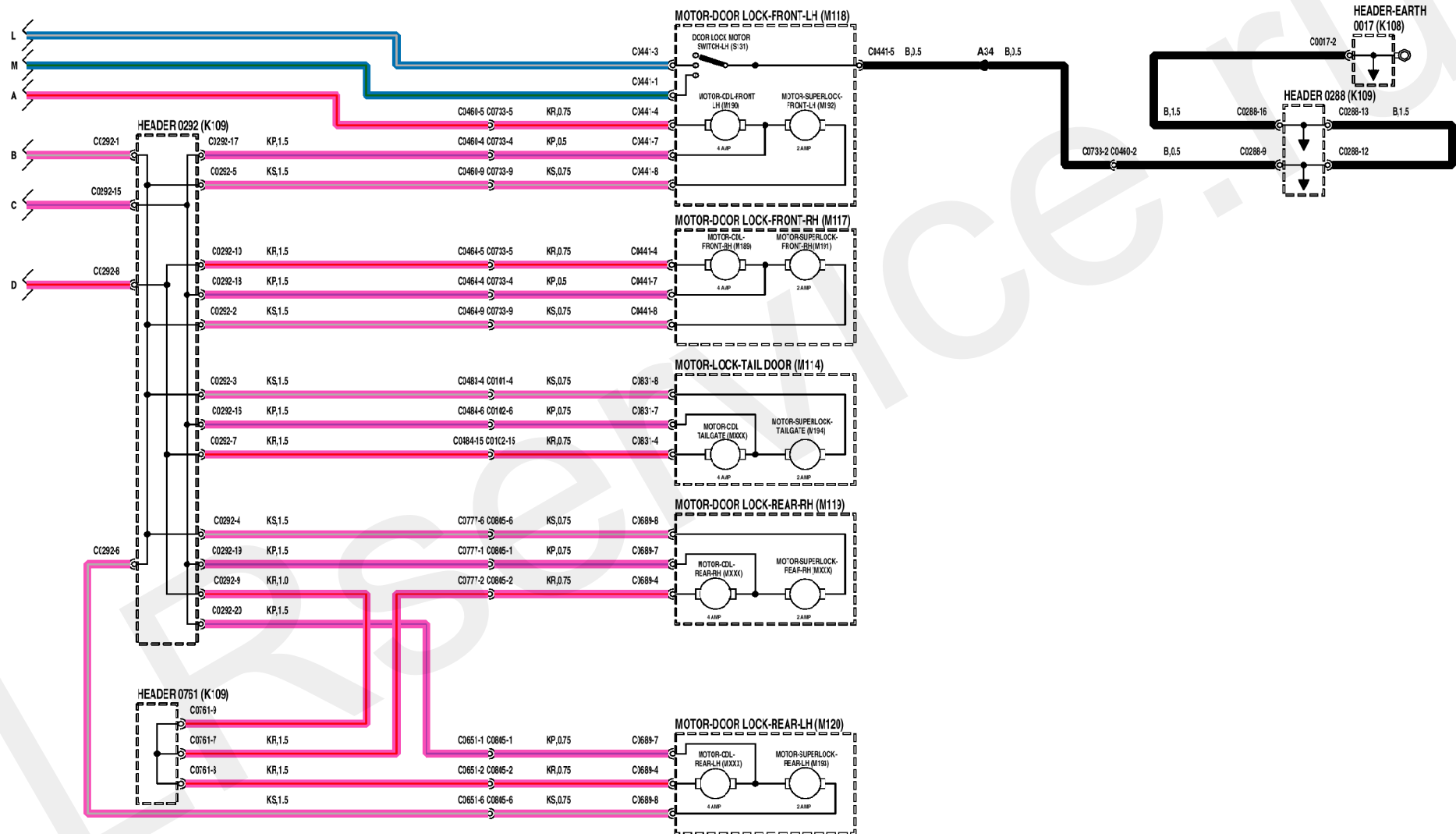
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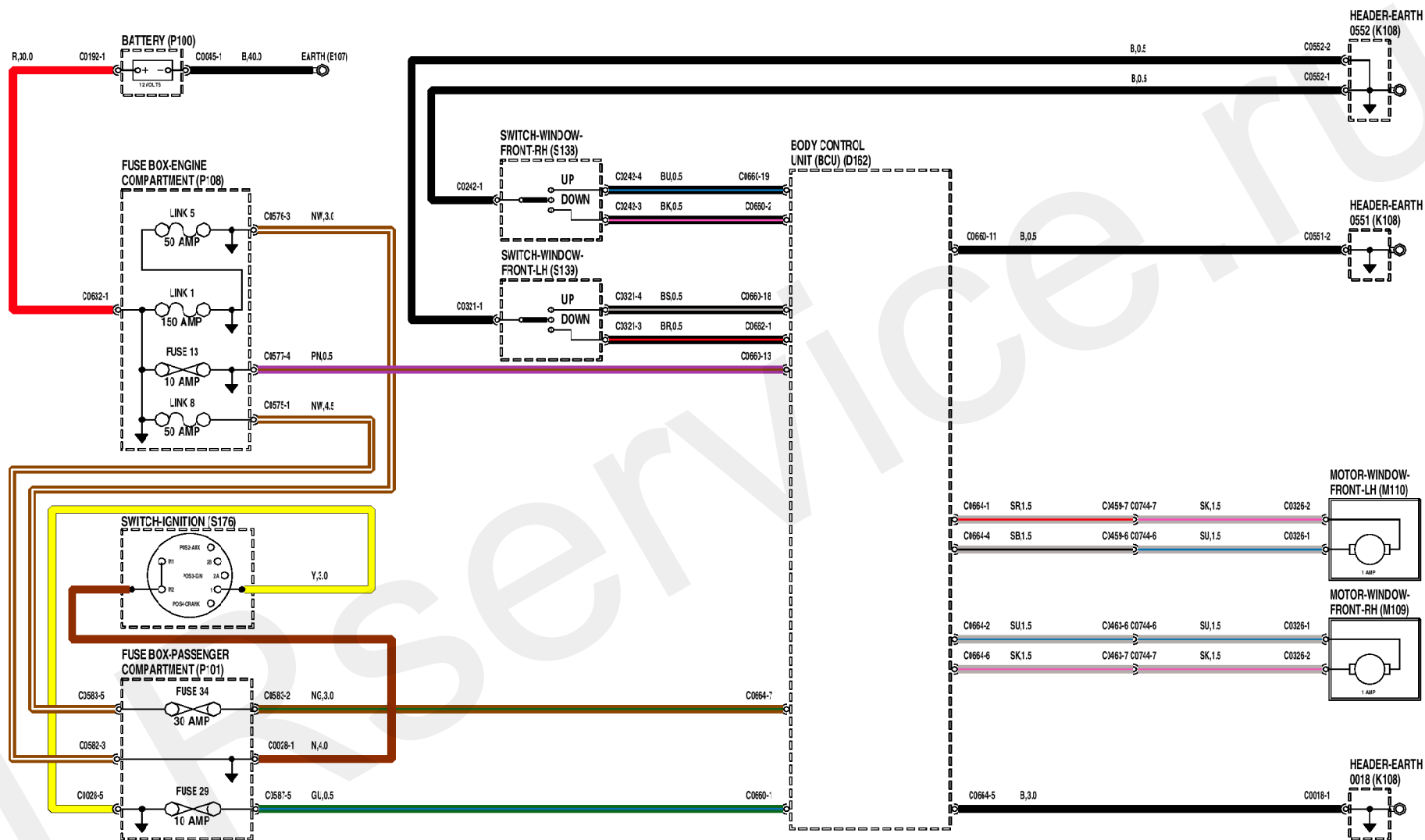


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CENTRAL DOOR LOCKING

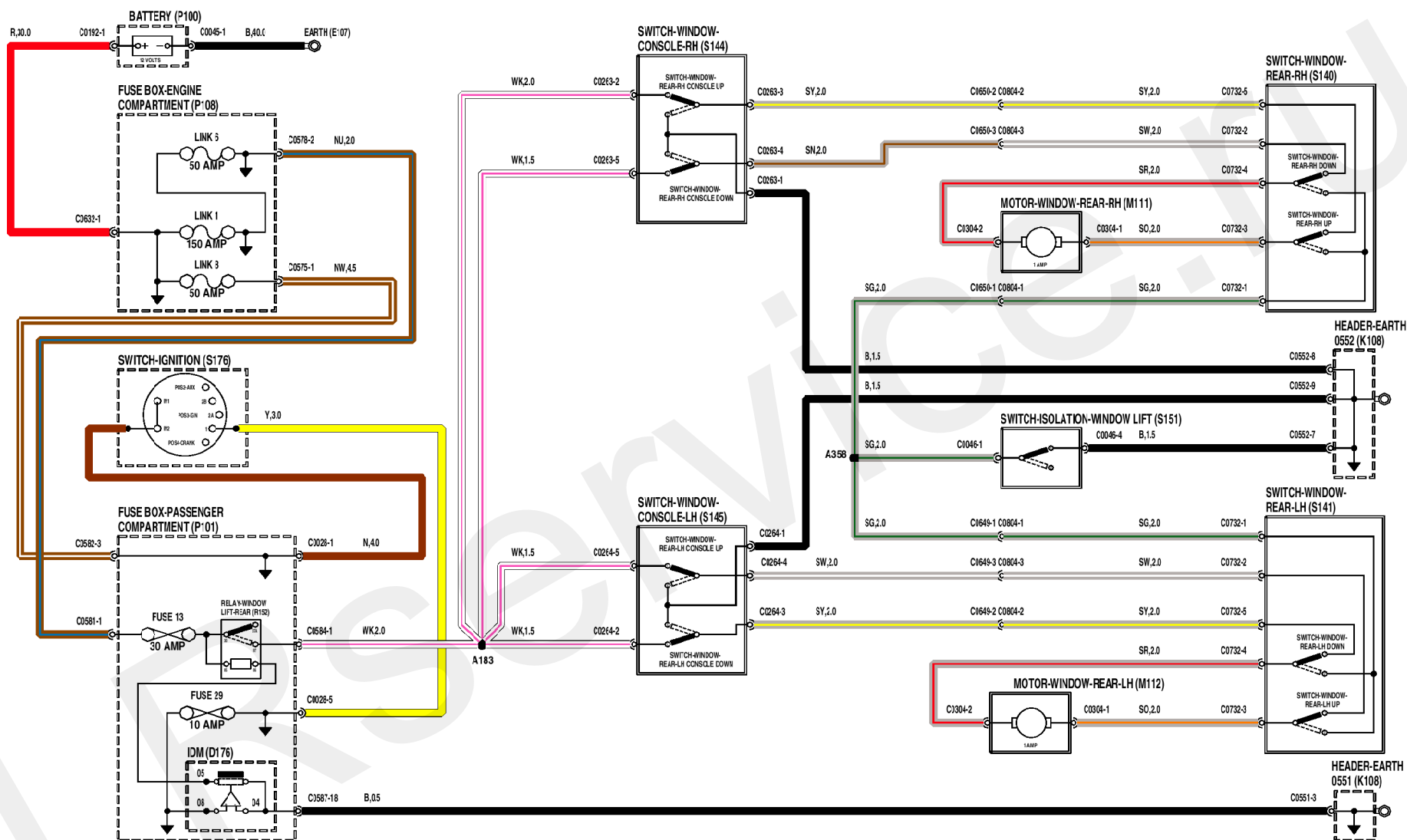


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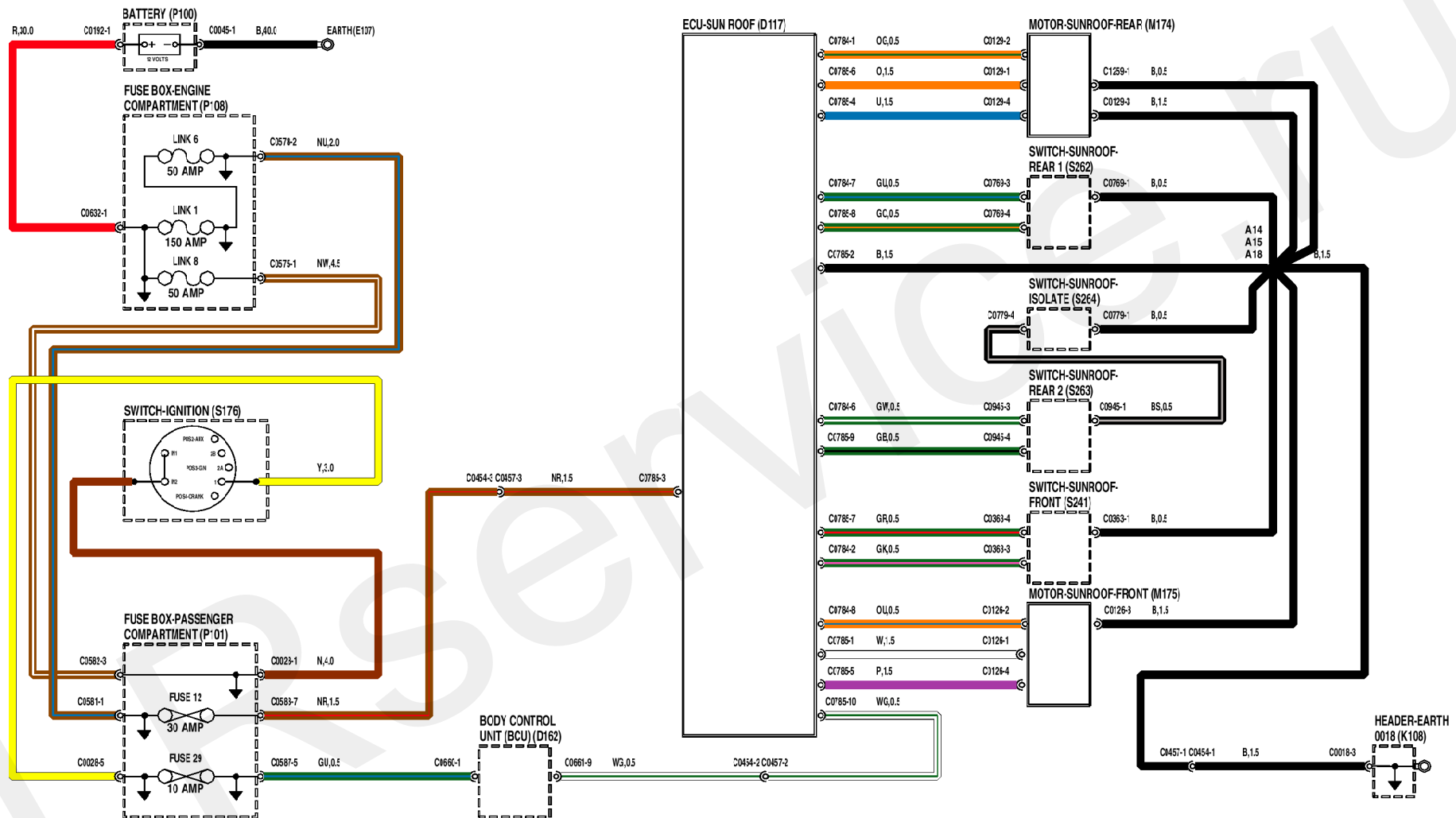
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WINDOWS REAR



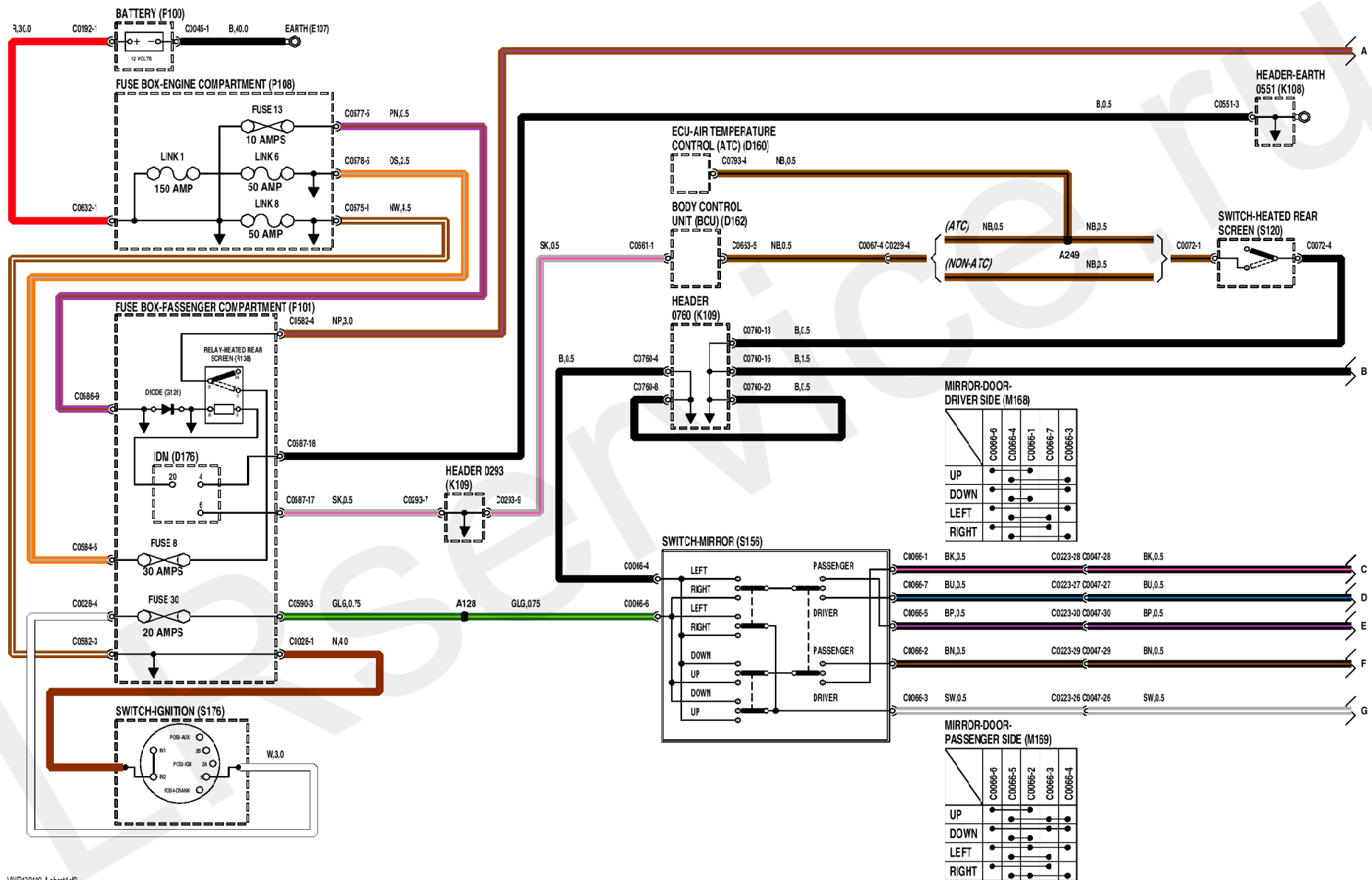
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SUNROOF



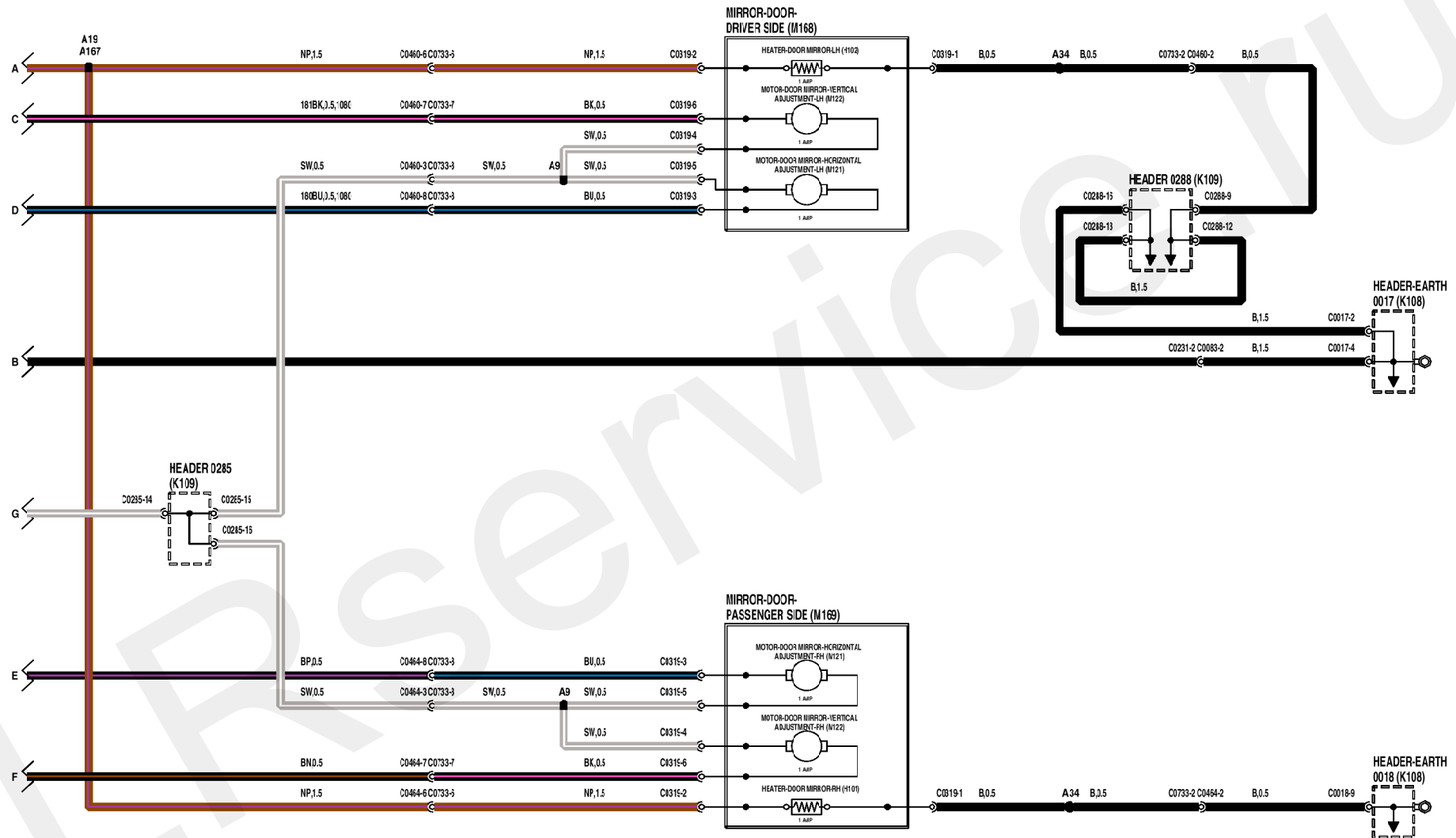
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DOOR MIRRORS



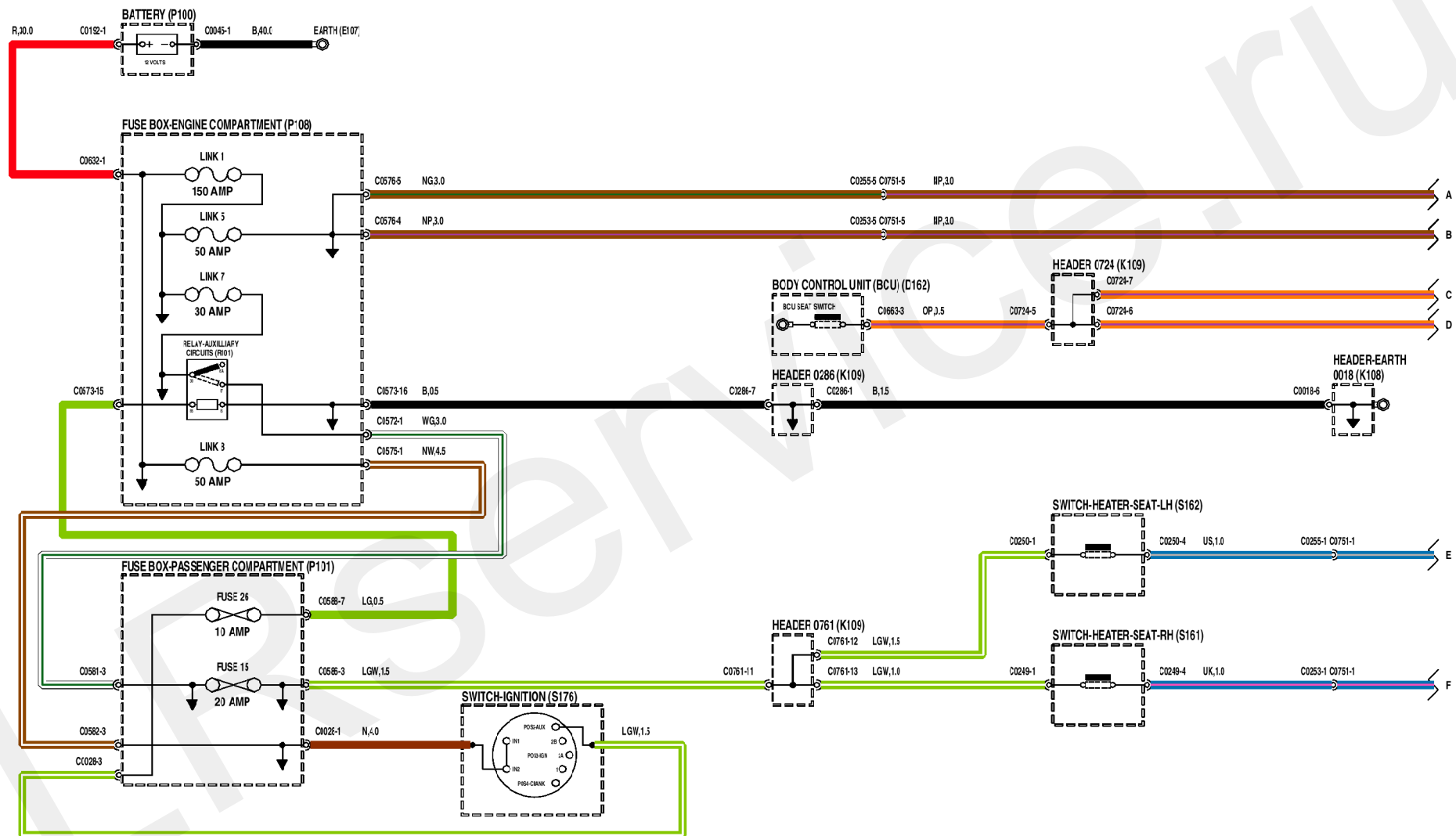
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DOOR MIRRORS



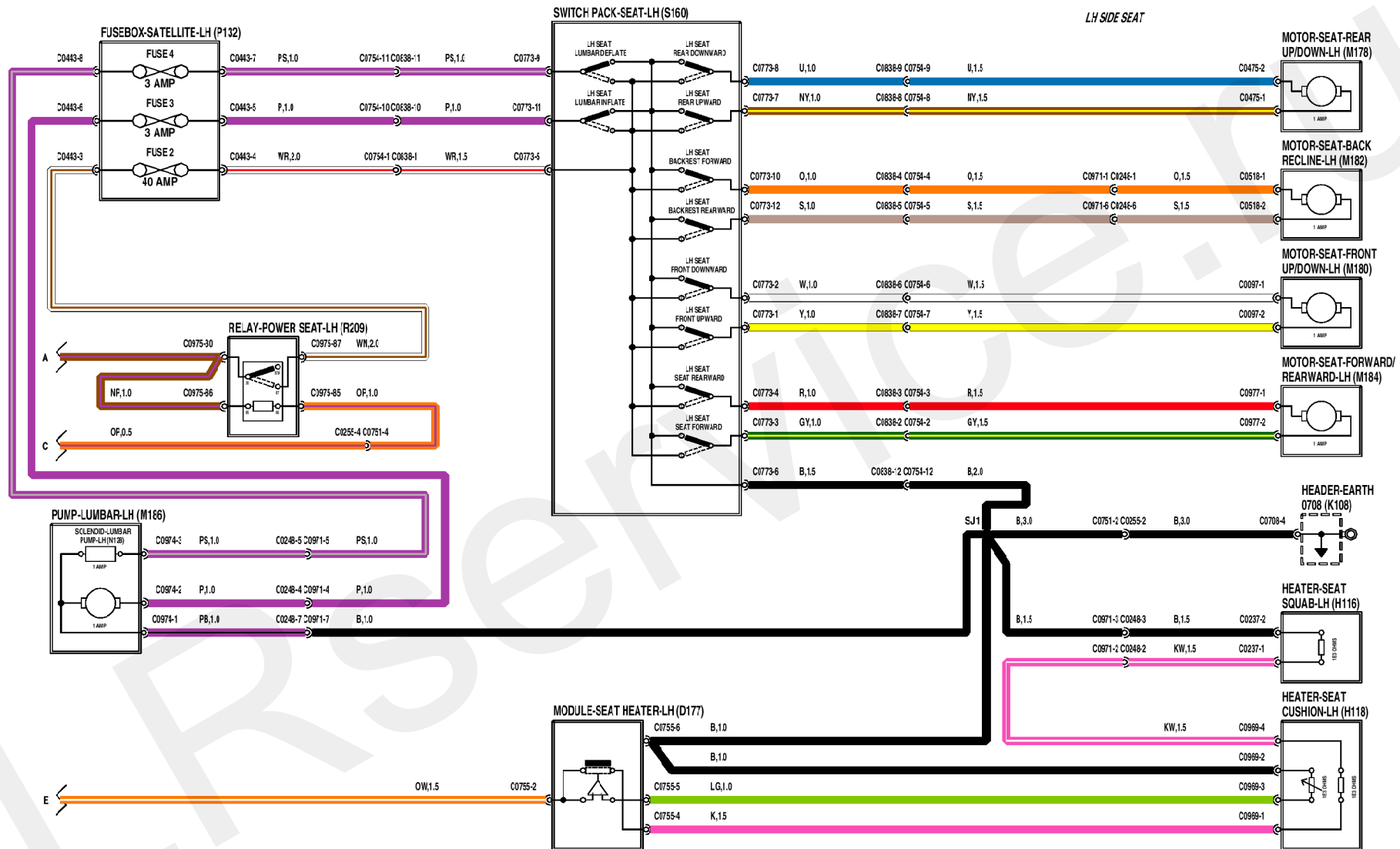
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**SEATS
POWER - HEATED**



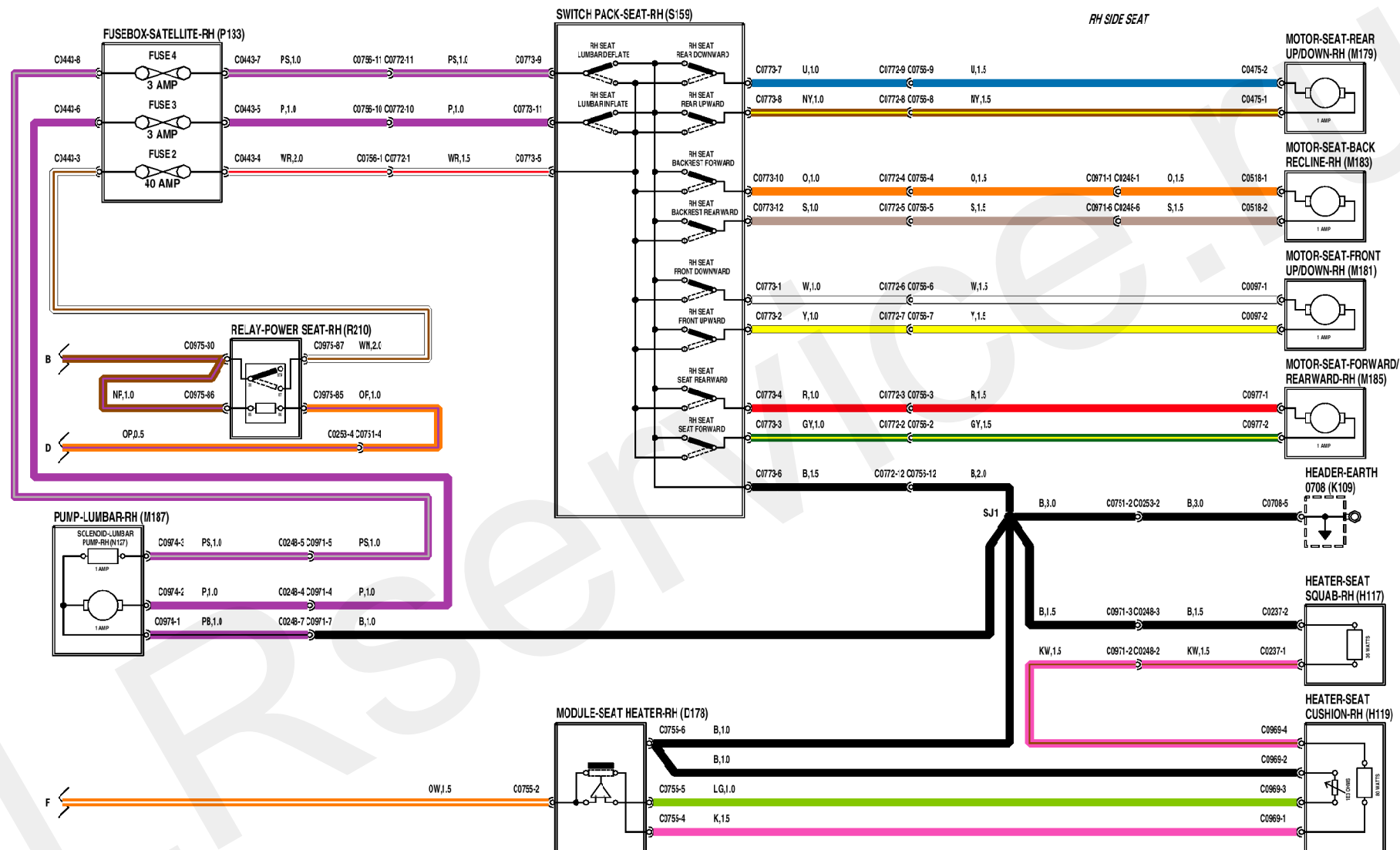
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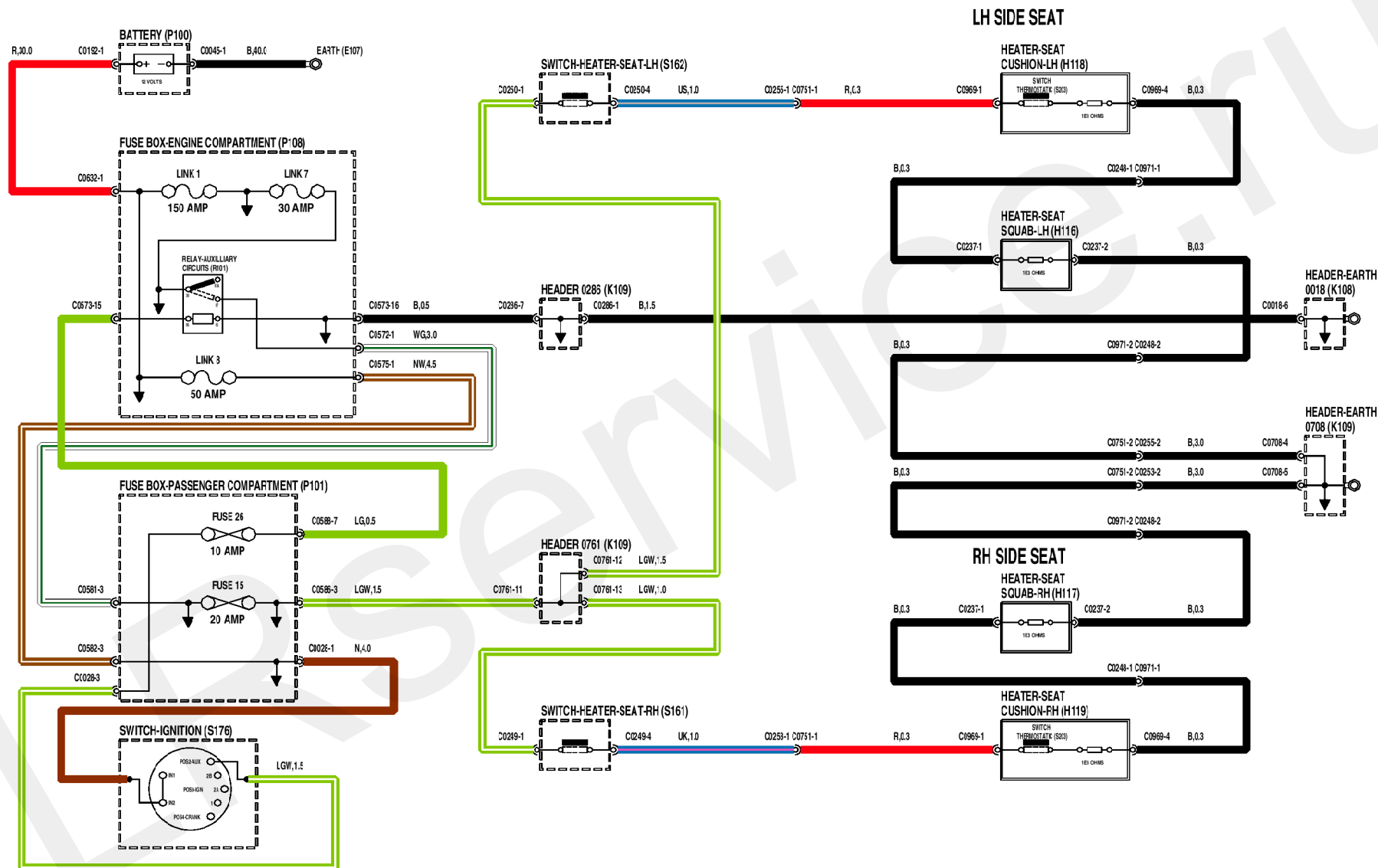
SEATS POWER - HEATED



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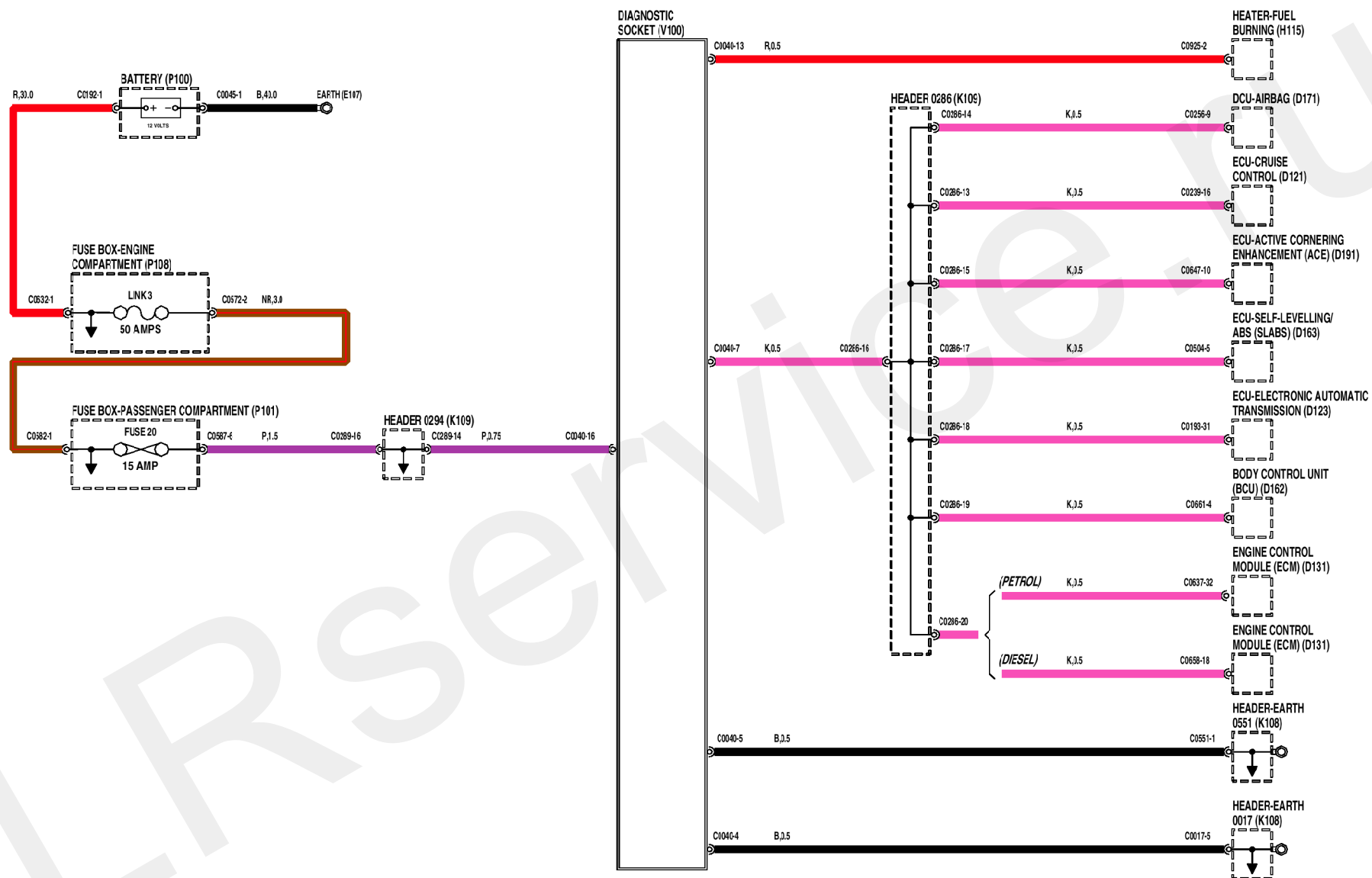
**SEATS
POWER - HEATED**





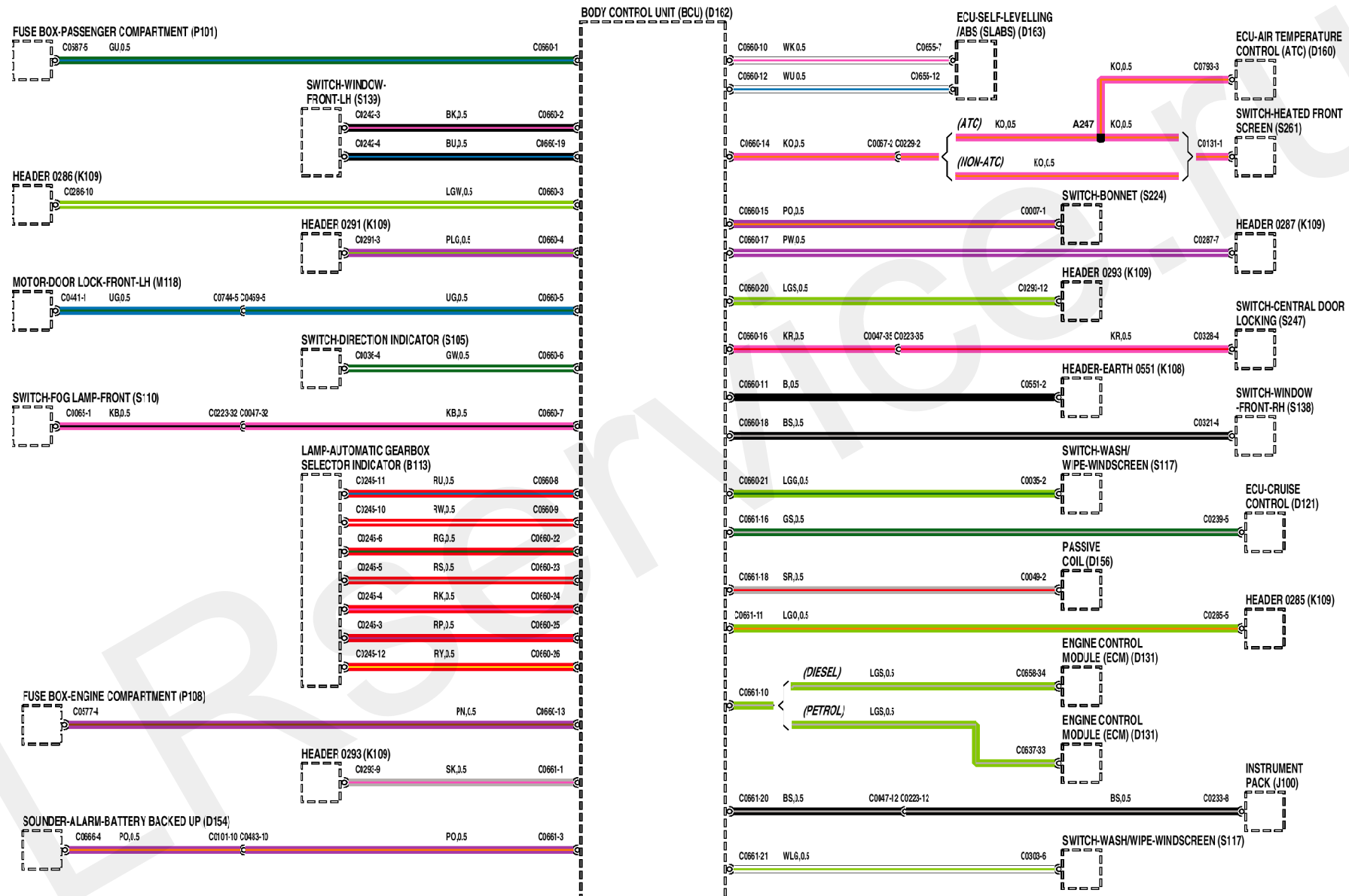
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DIAGNOSTIC SOCKET



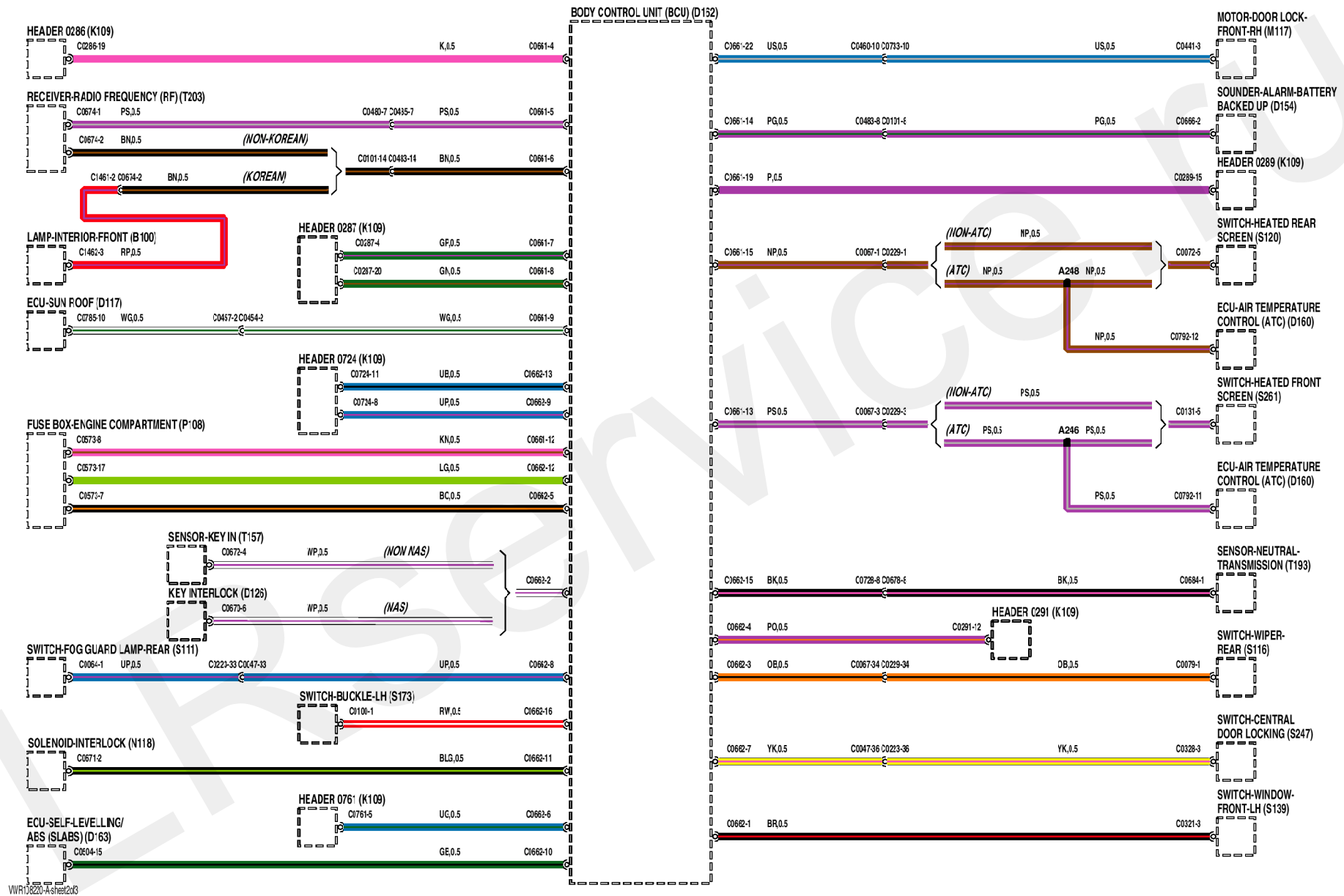
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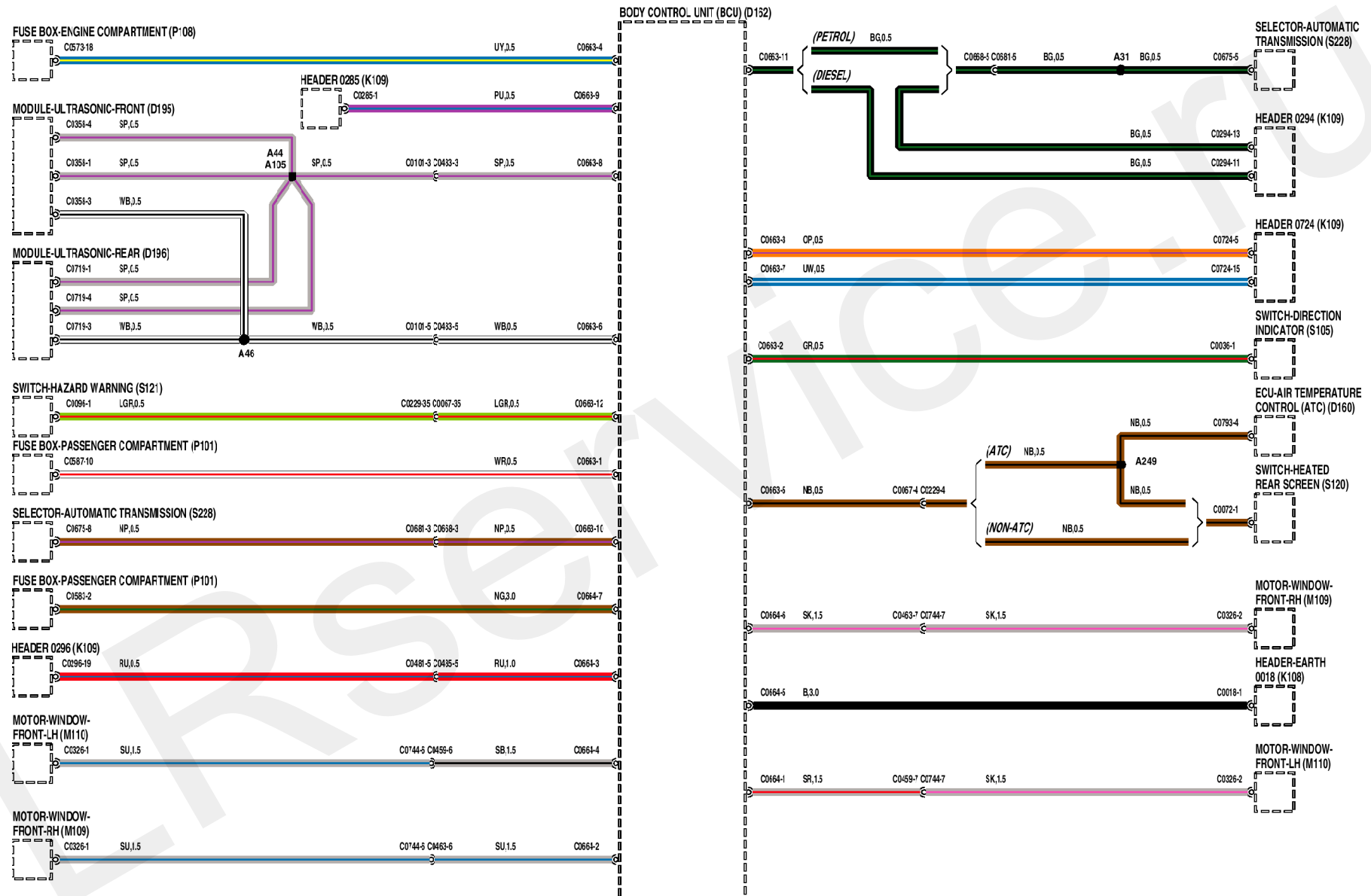


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BODY CONTROL UNIT (BCU)



BODY CONTROL UNIT (BCU)

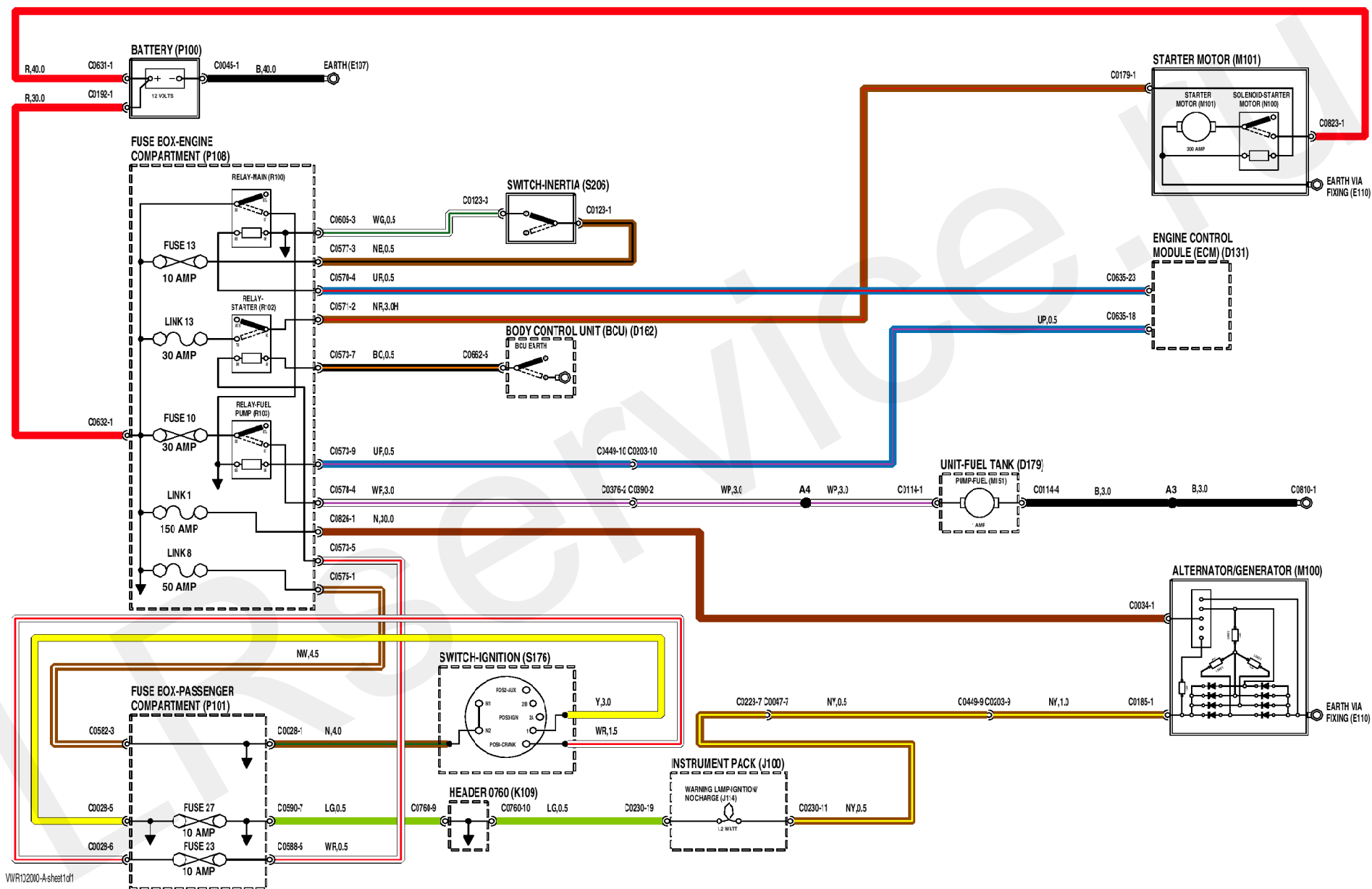


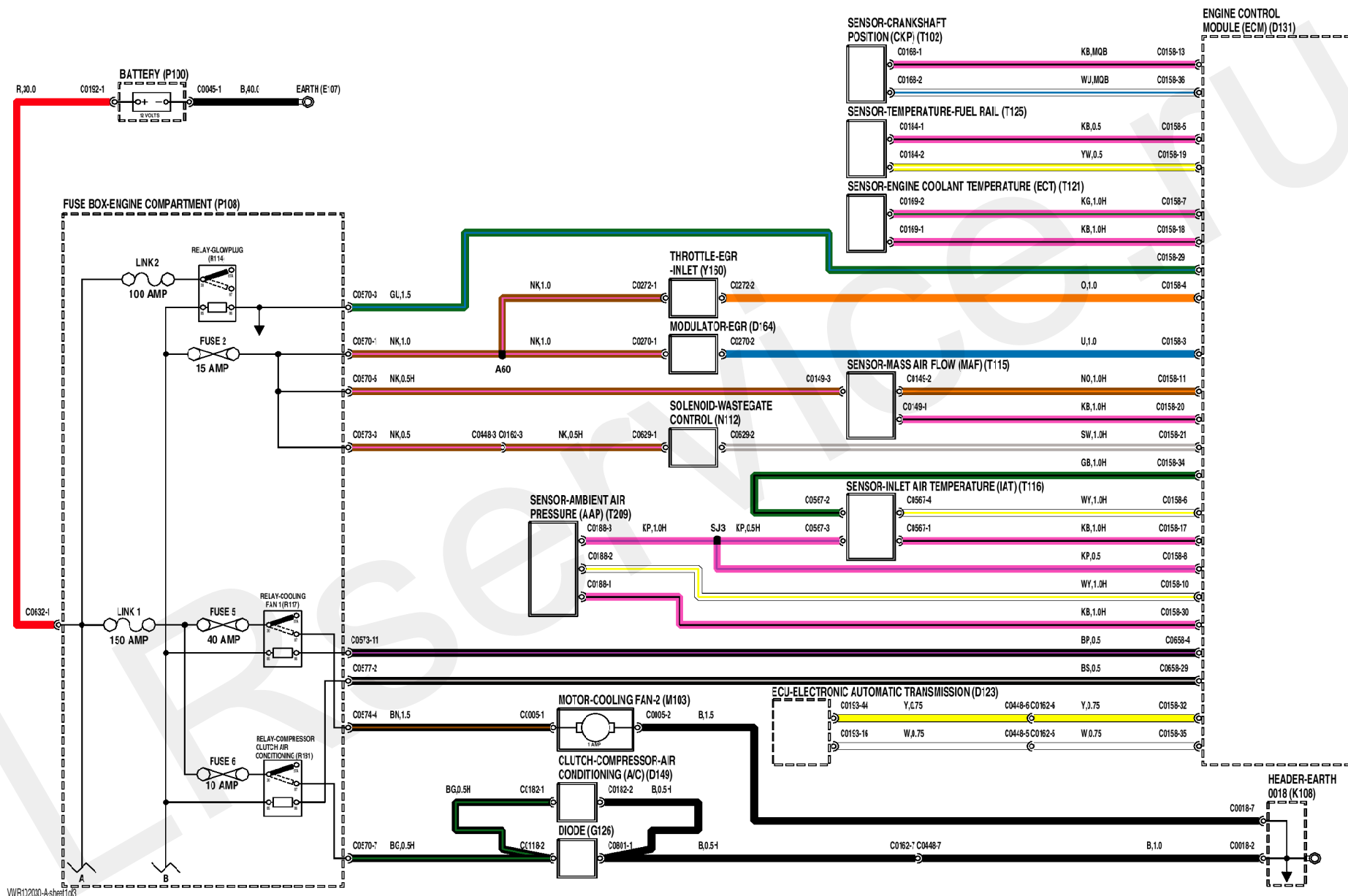
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Td5



CHARGING AND STARTING V8



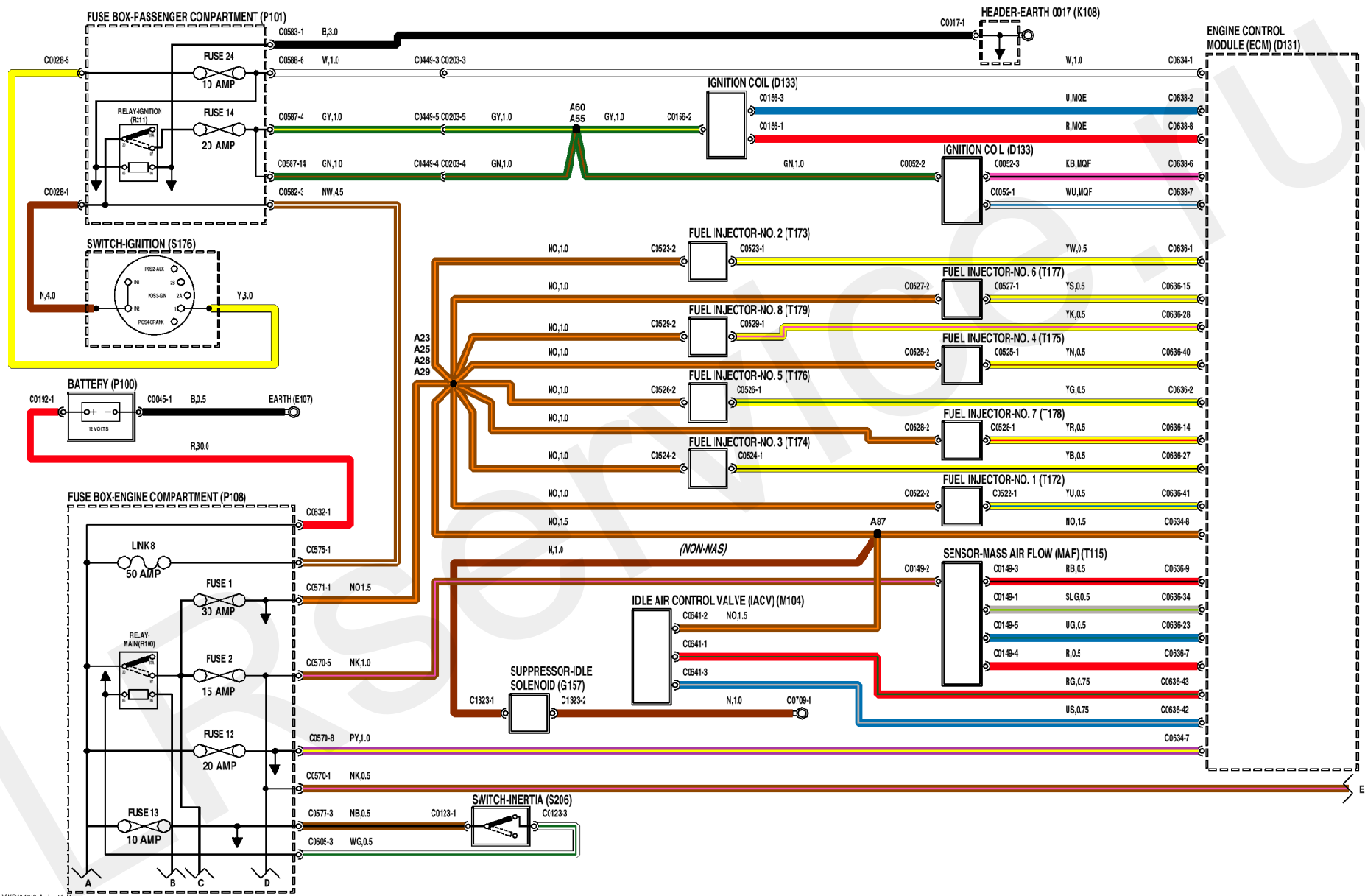


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Td5

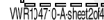






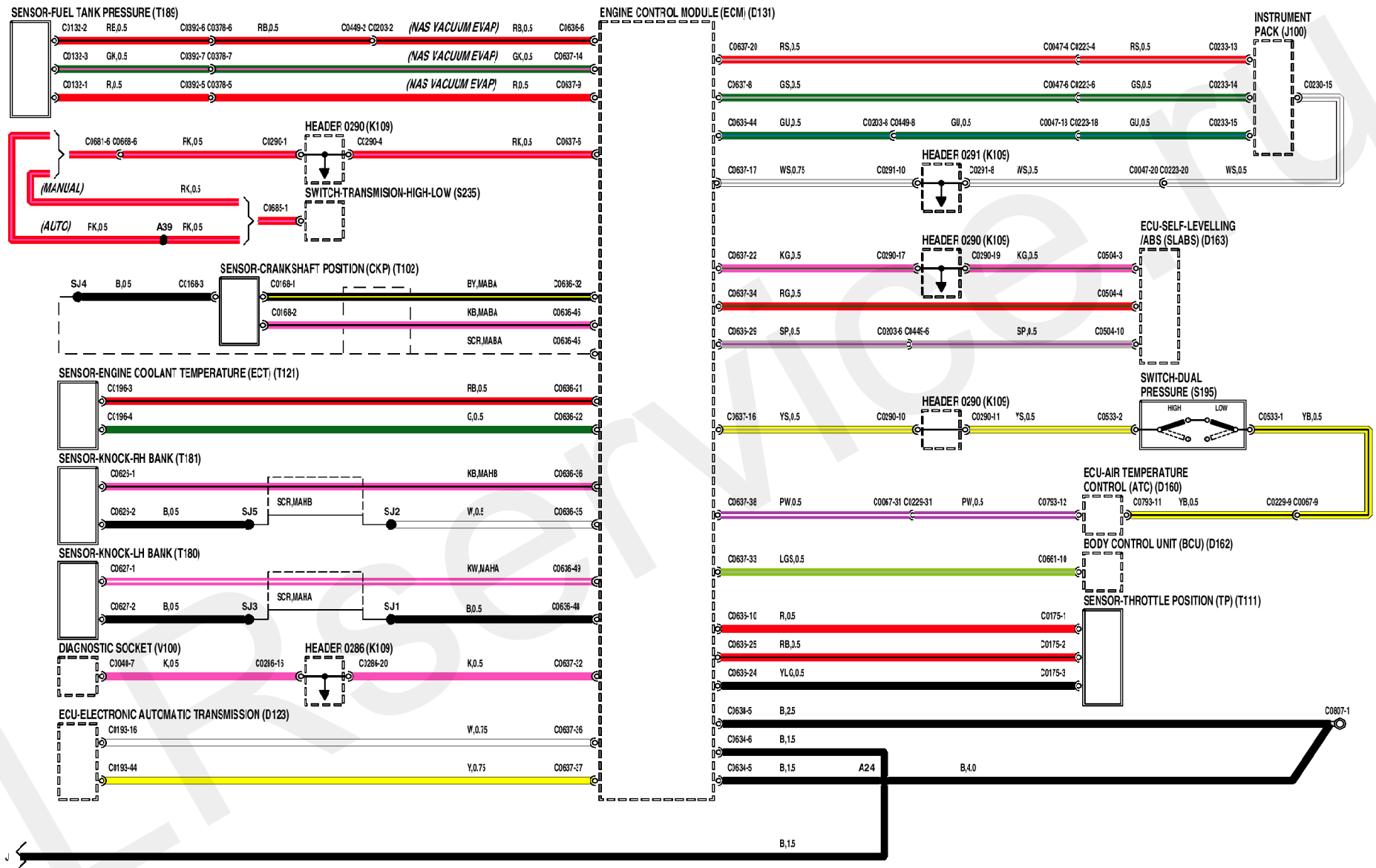
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V8

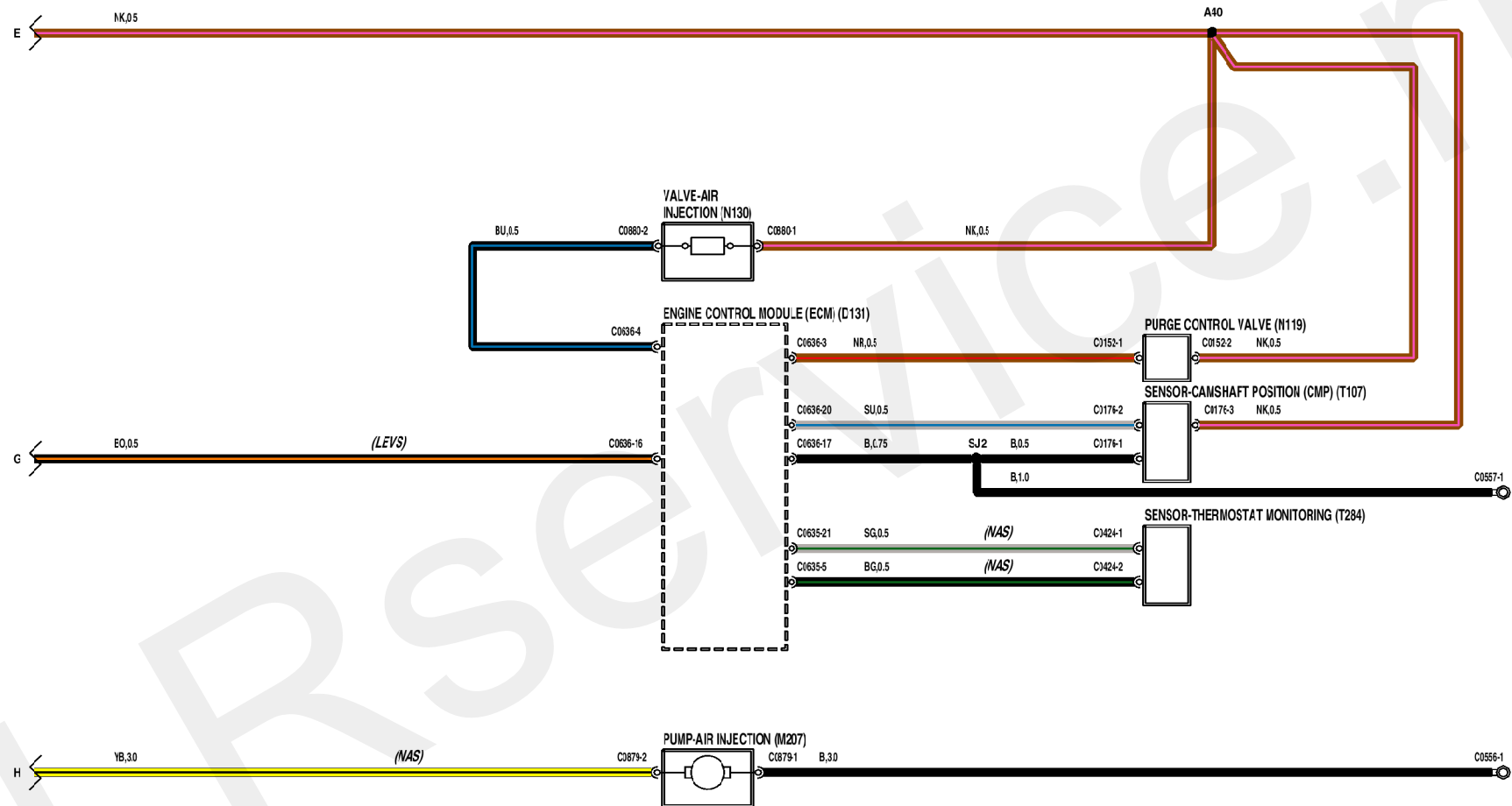


ENGINE MANAGEMENT

V8



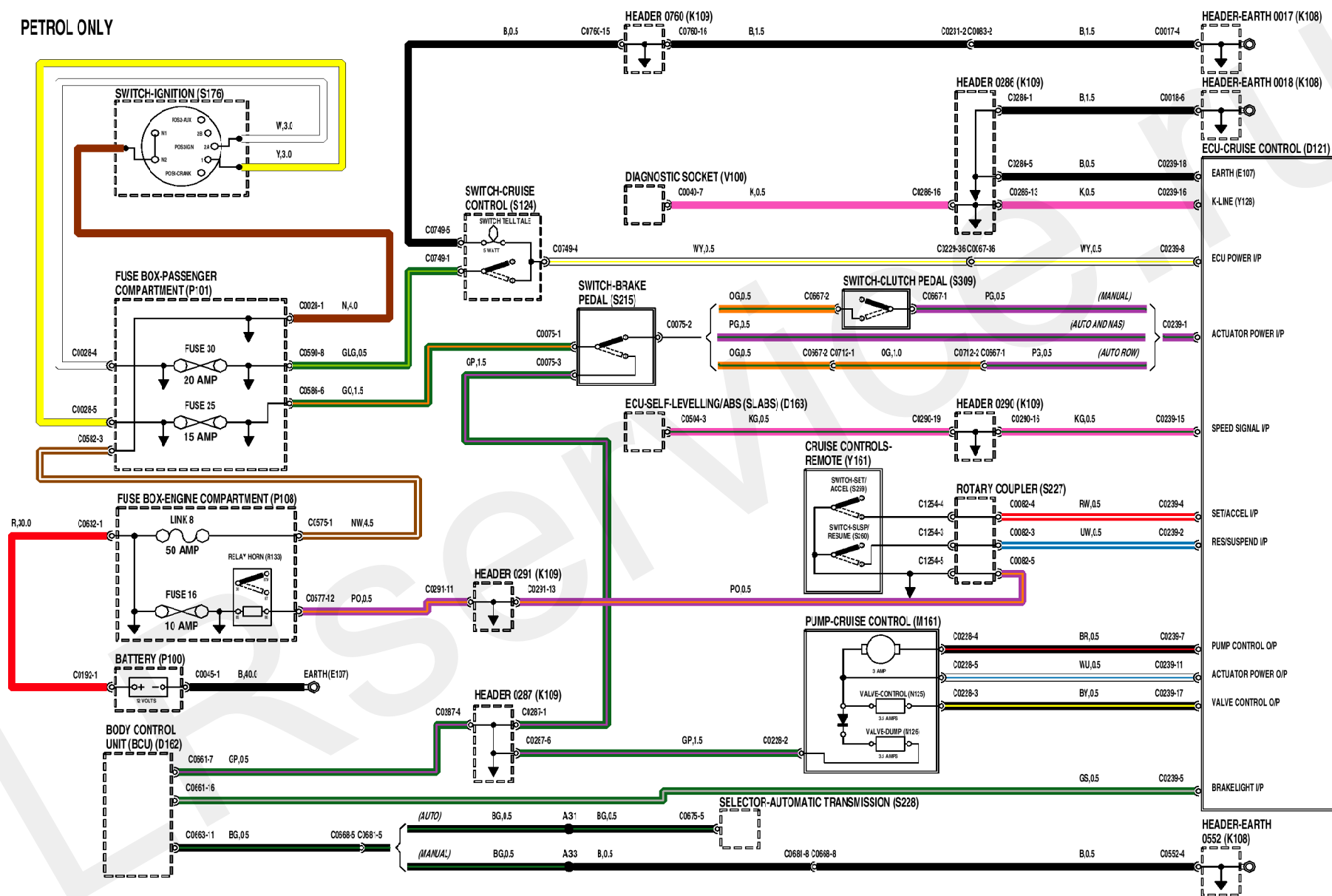
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VWR1047 0-Asheet4d4

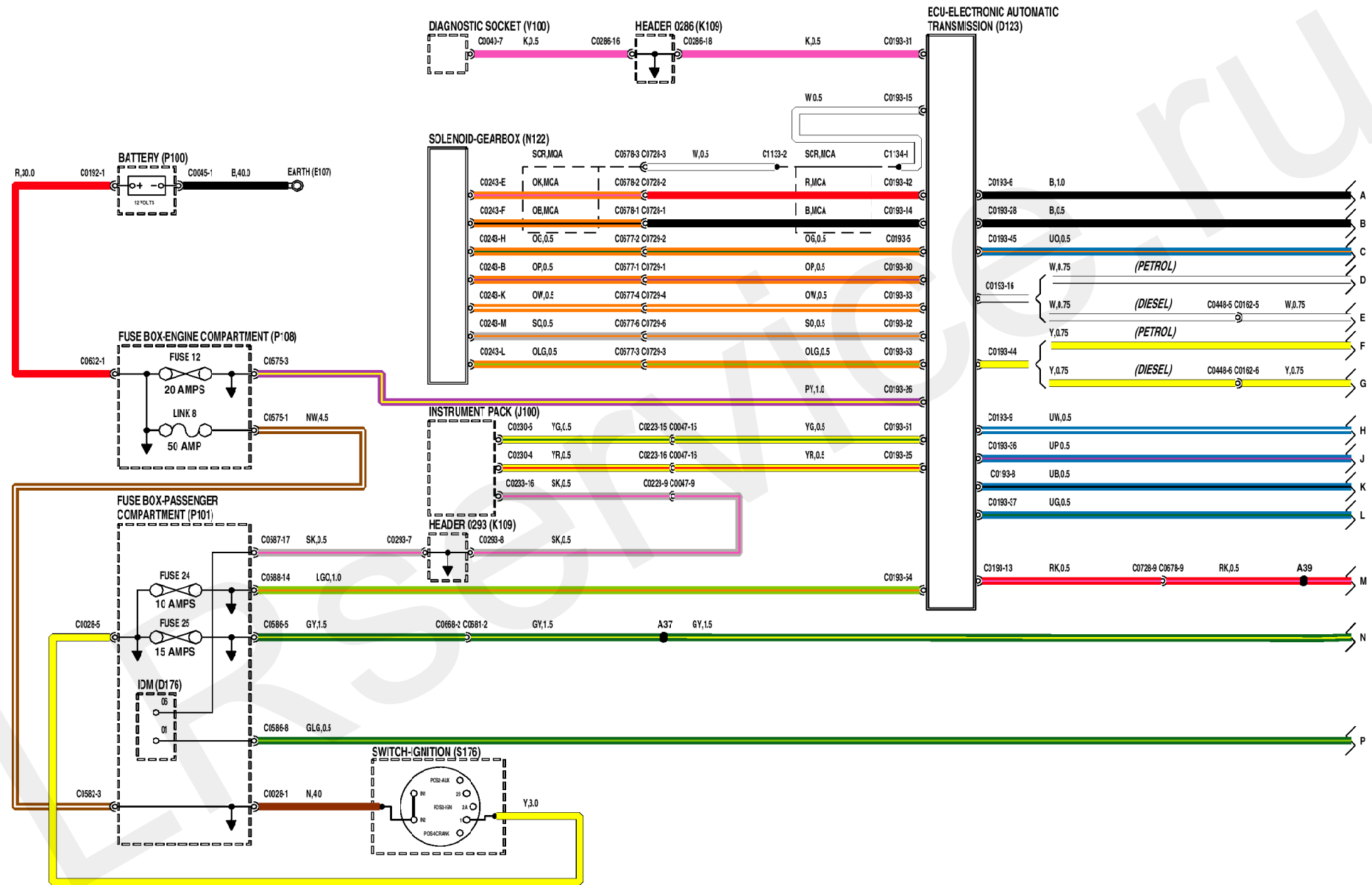
CRUISE CONTROL

PETROL ONLY



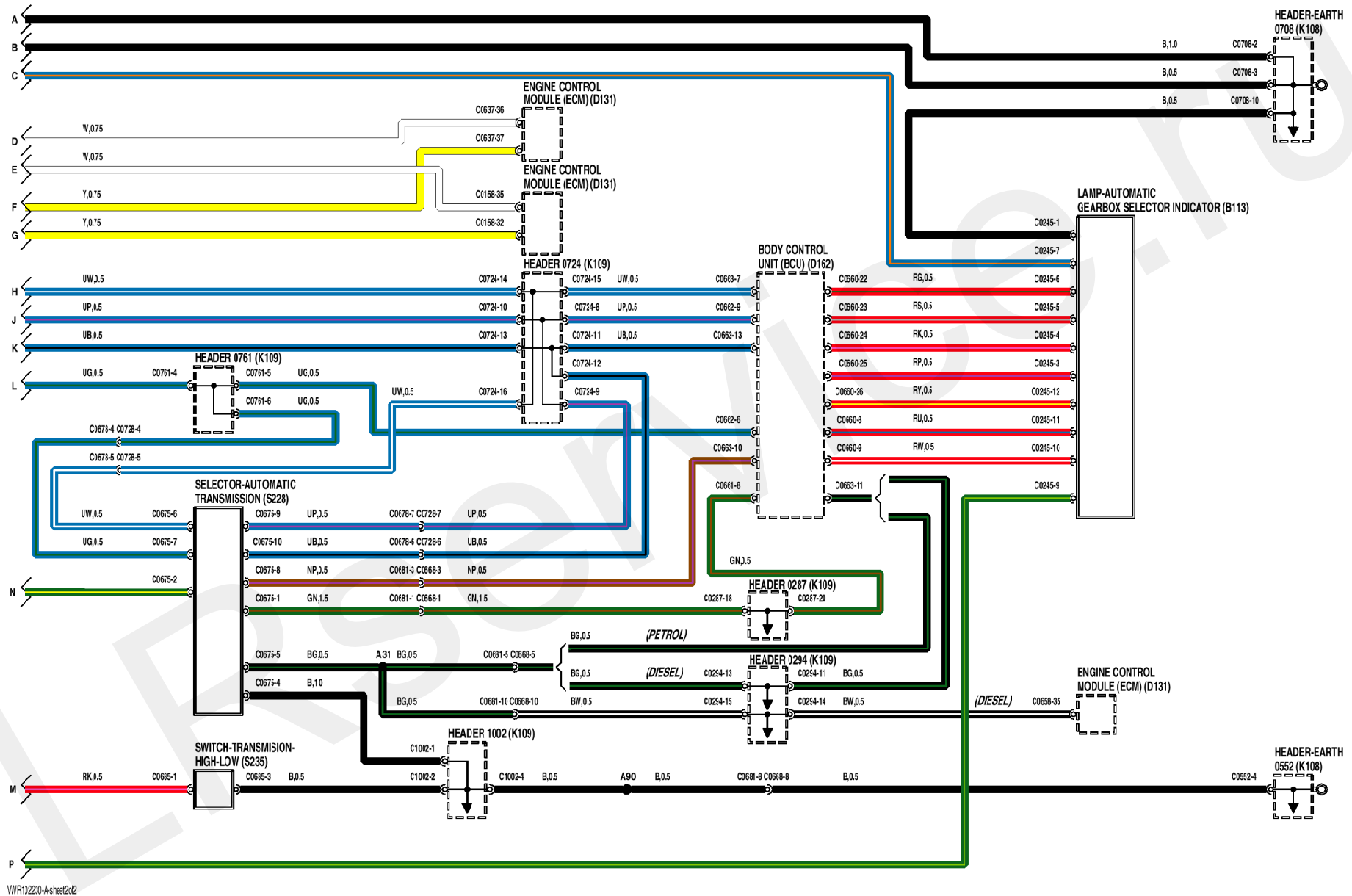
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ELECTRONIC AUTOMATIC TRANSMISSION (EAT)

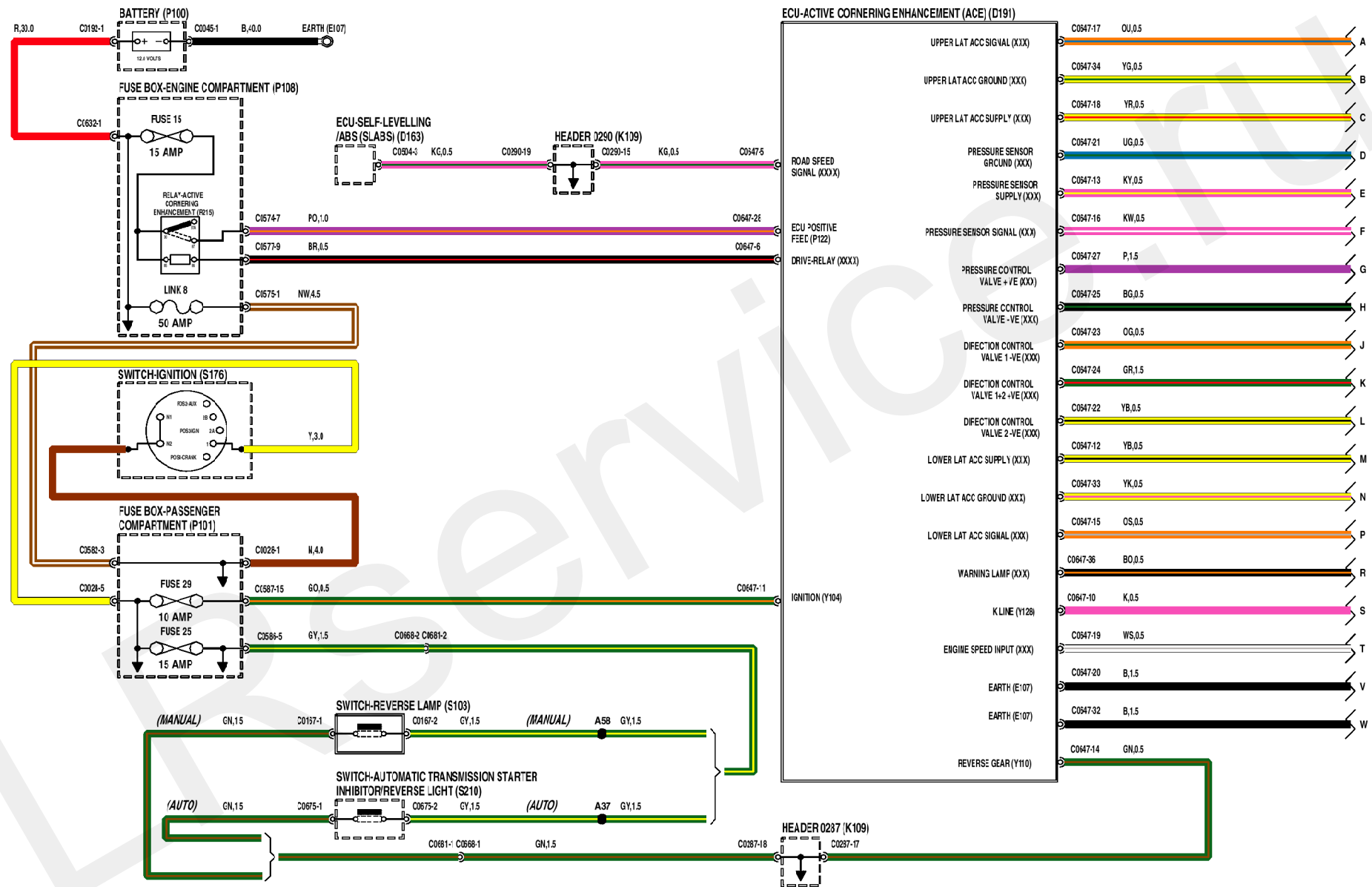


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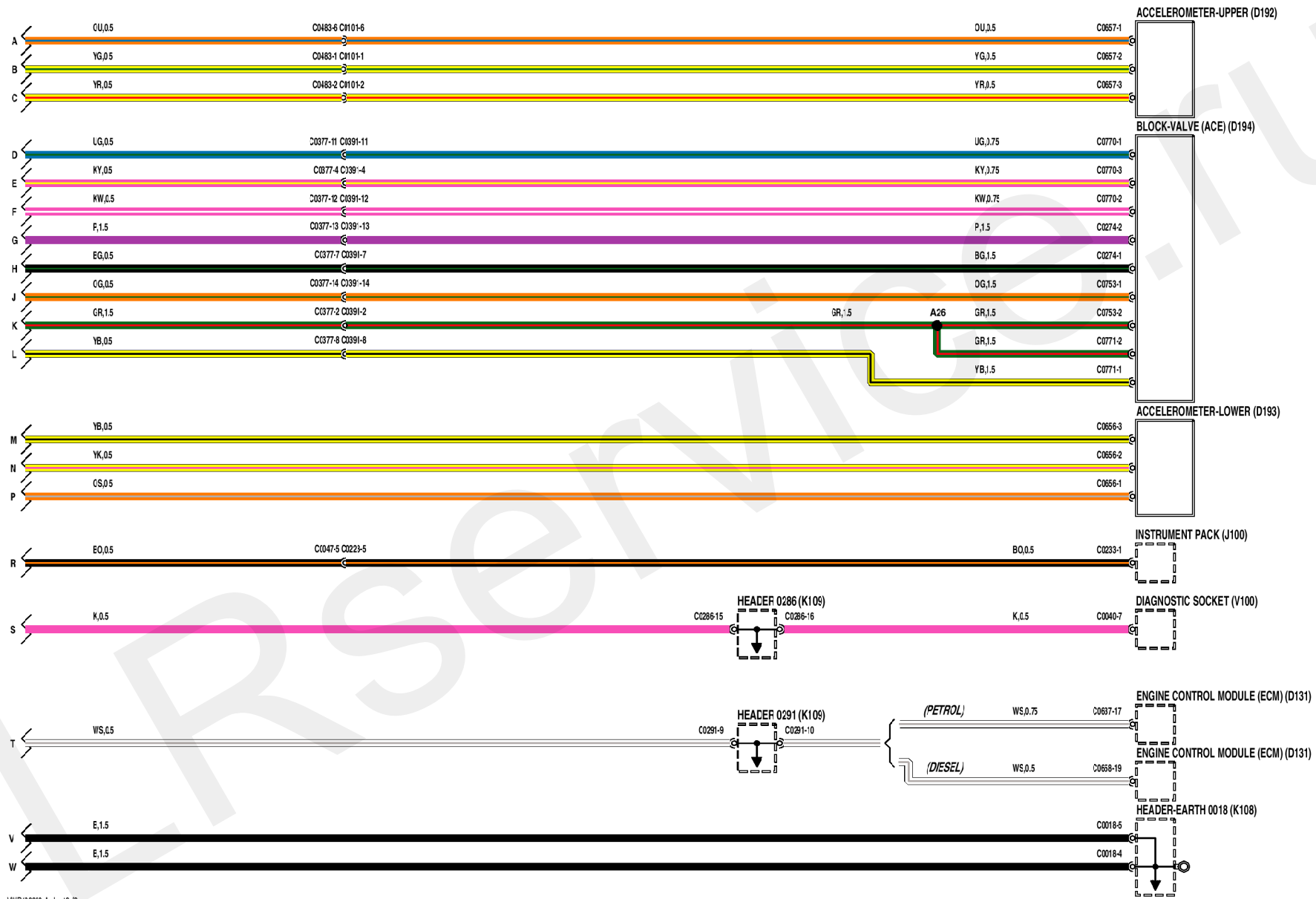
ELECTRONIC AUTOMATIC TRANSMISSION (EAT)



ACTIVE CORNERING ENHANCEMENT (ACE)

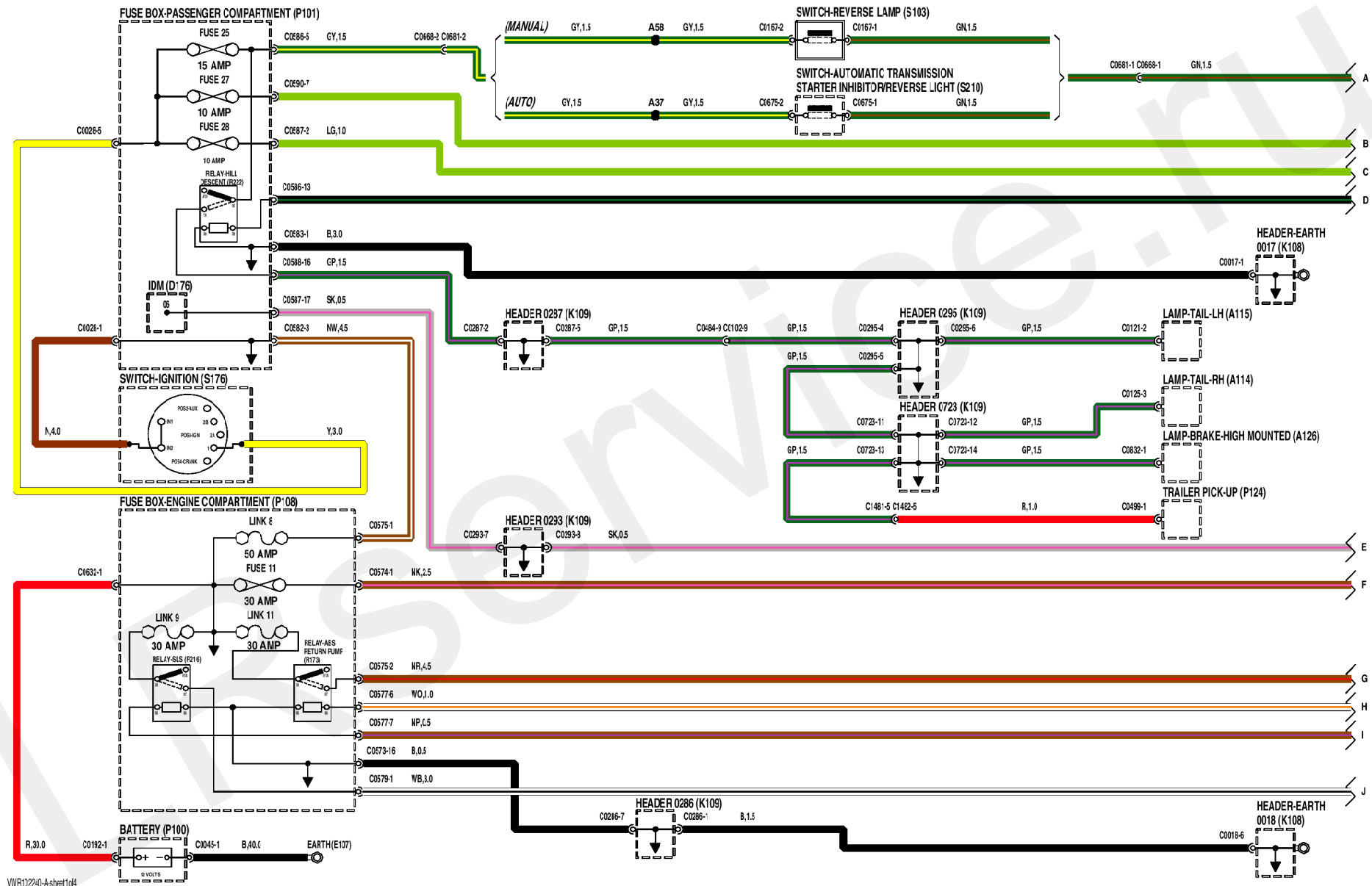


ACTIVE CORNERING ENHANCEMENT (ACE)



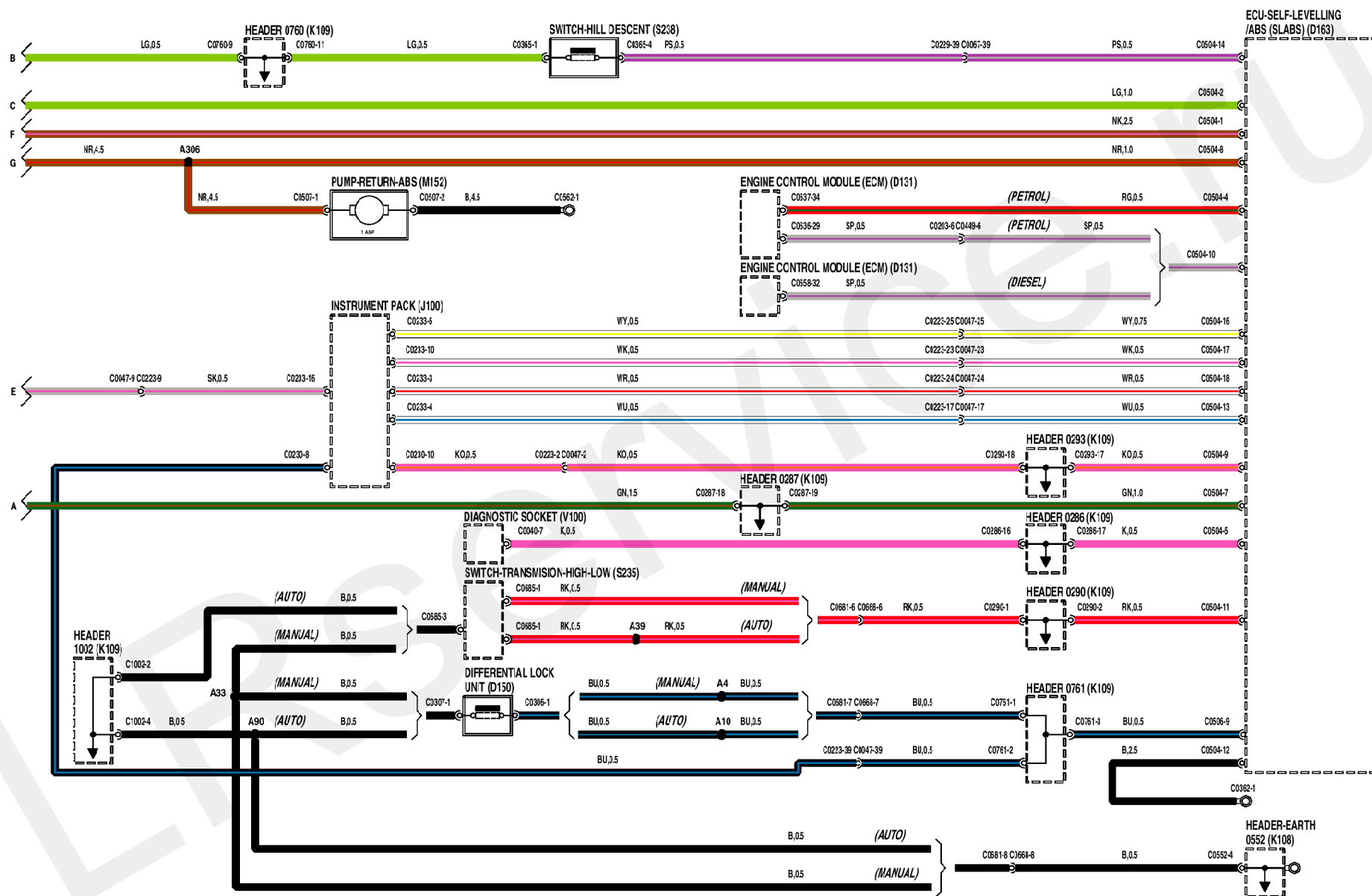
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SELF LEVELING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



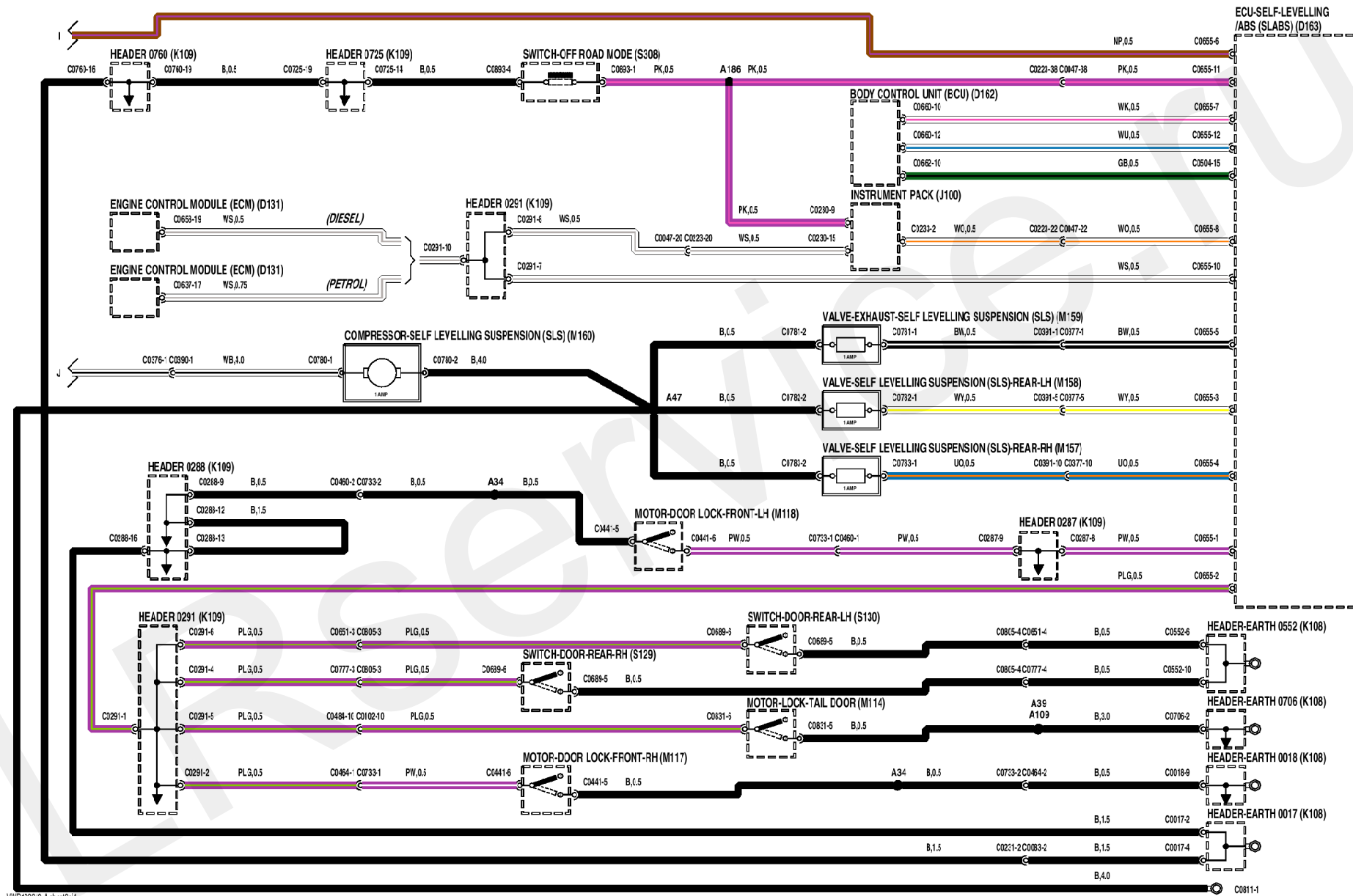
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SELF LEVELING AND ANTI-LOCK BRAKING SYSTEM (SLABS)



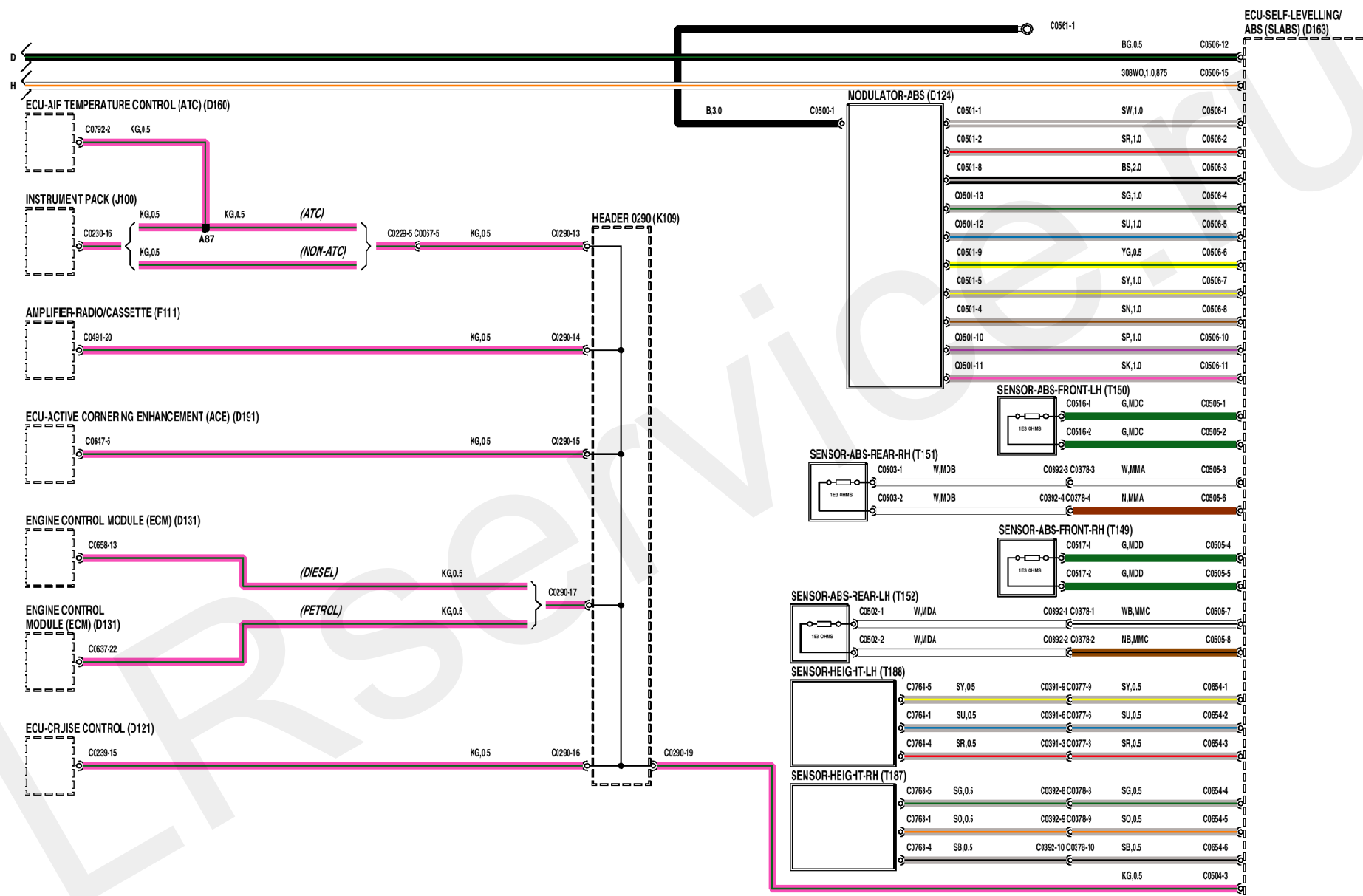
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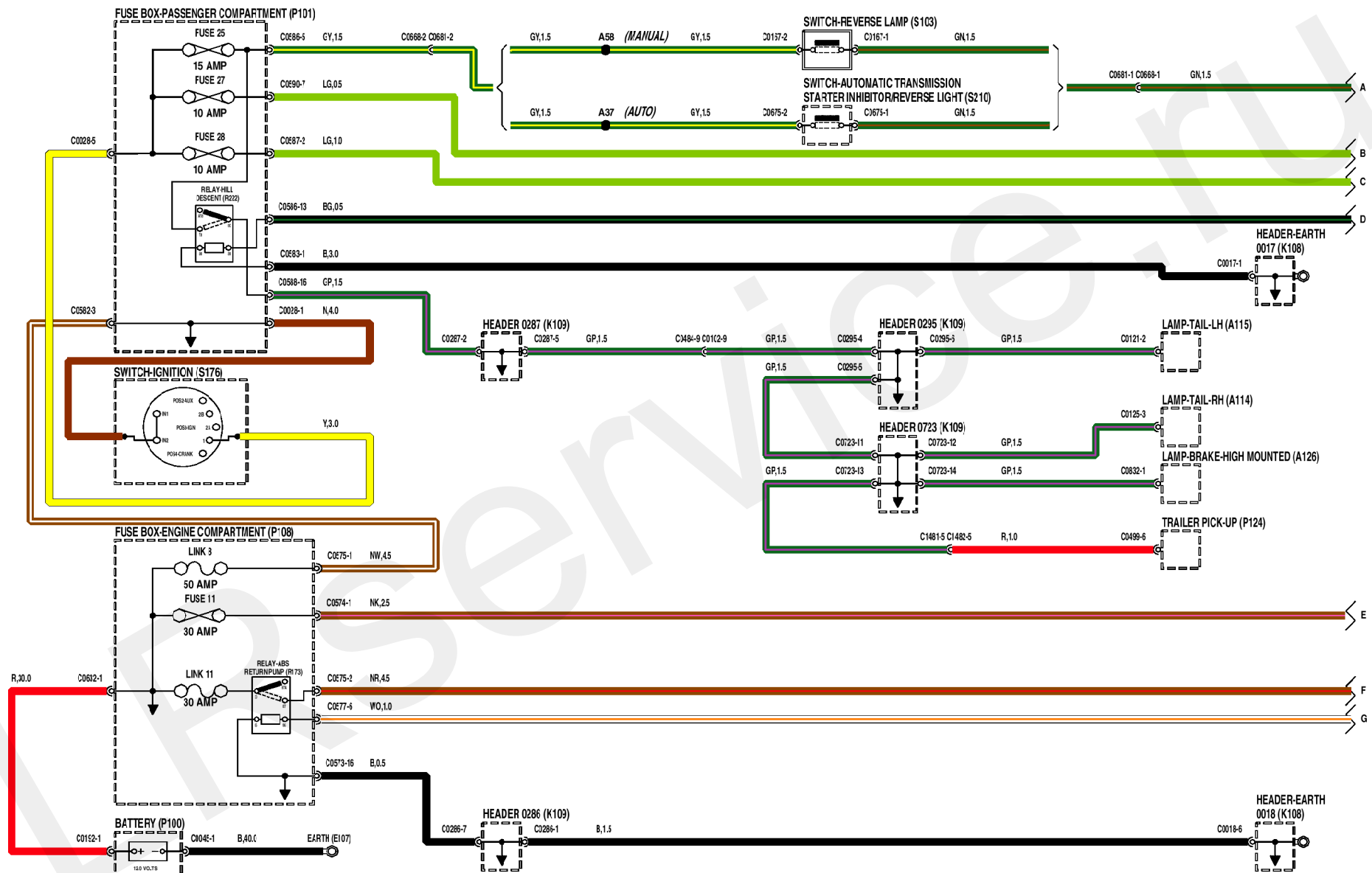


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SELF LEVELING AND ANTI-LOCK BRAKING SYSTEM (SLABS)

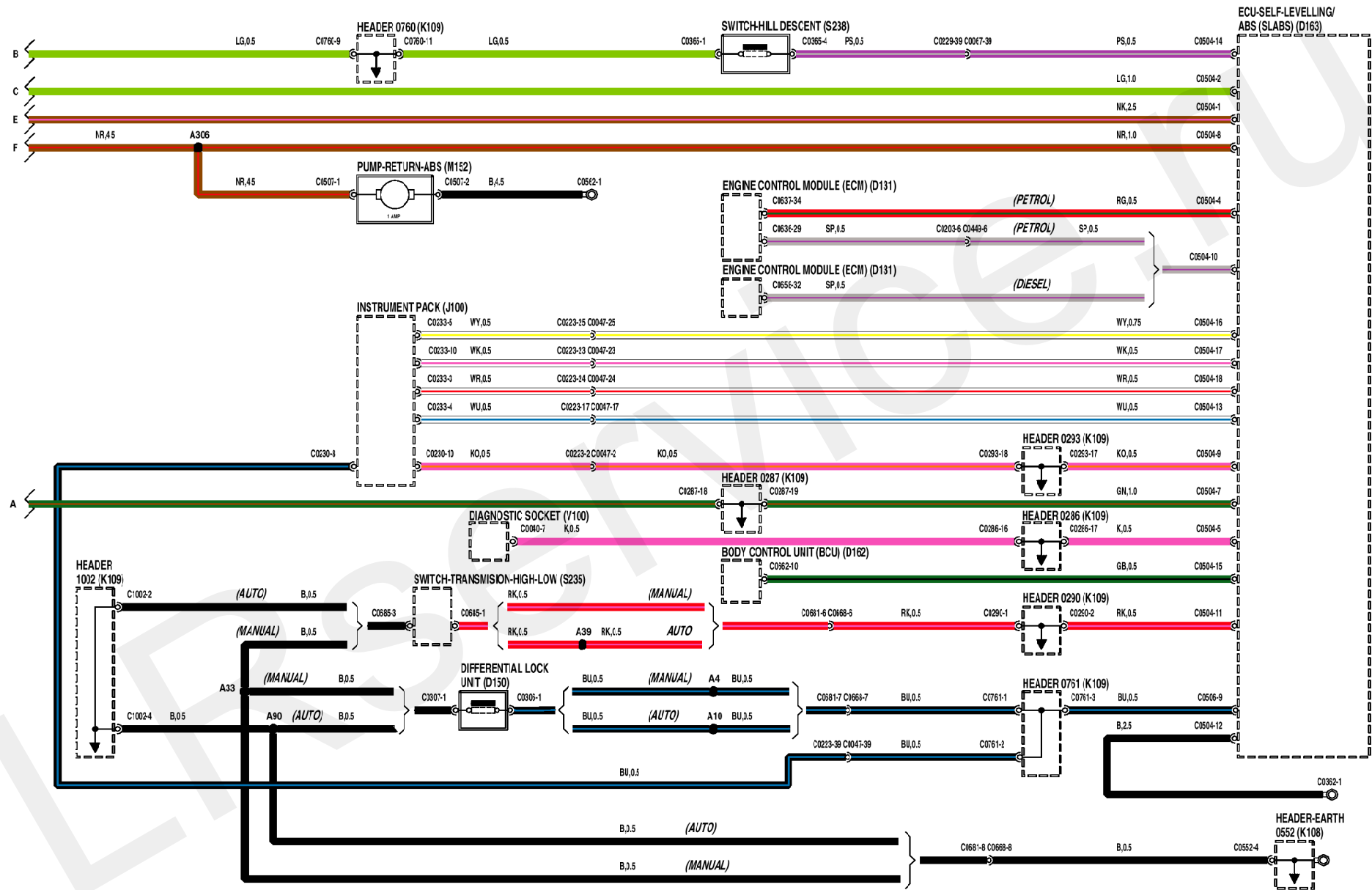


ANTI-LOCK BRAKING SYSTEM (ABS)



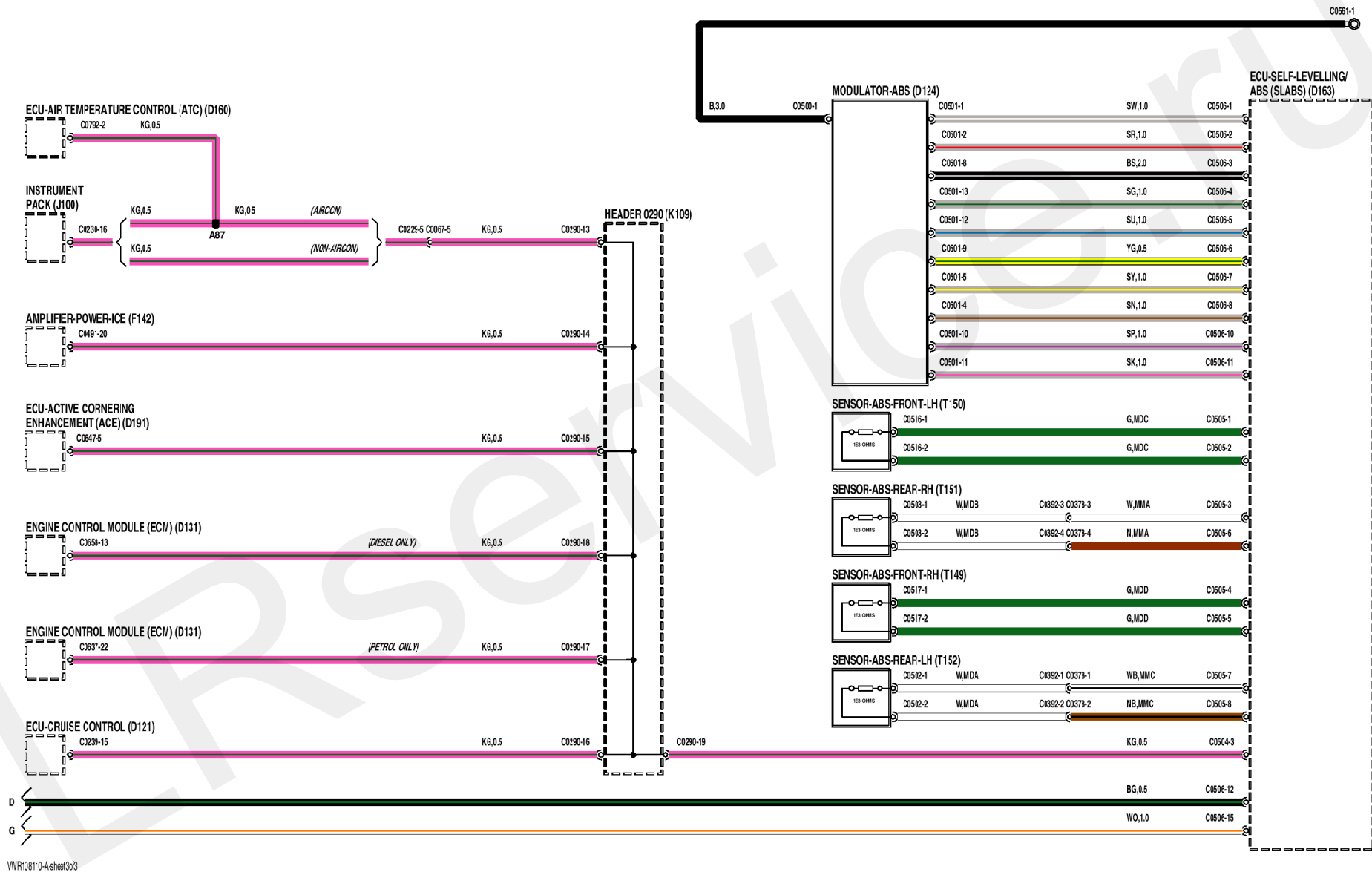
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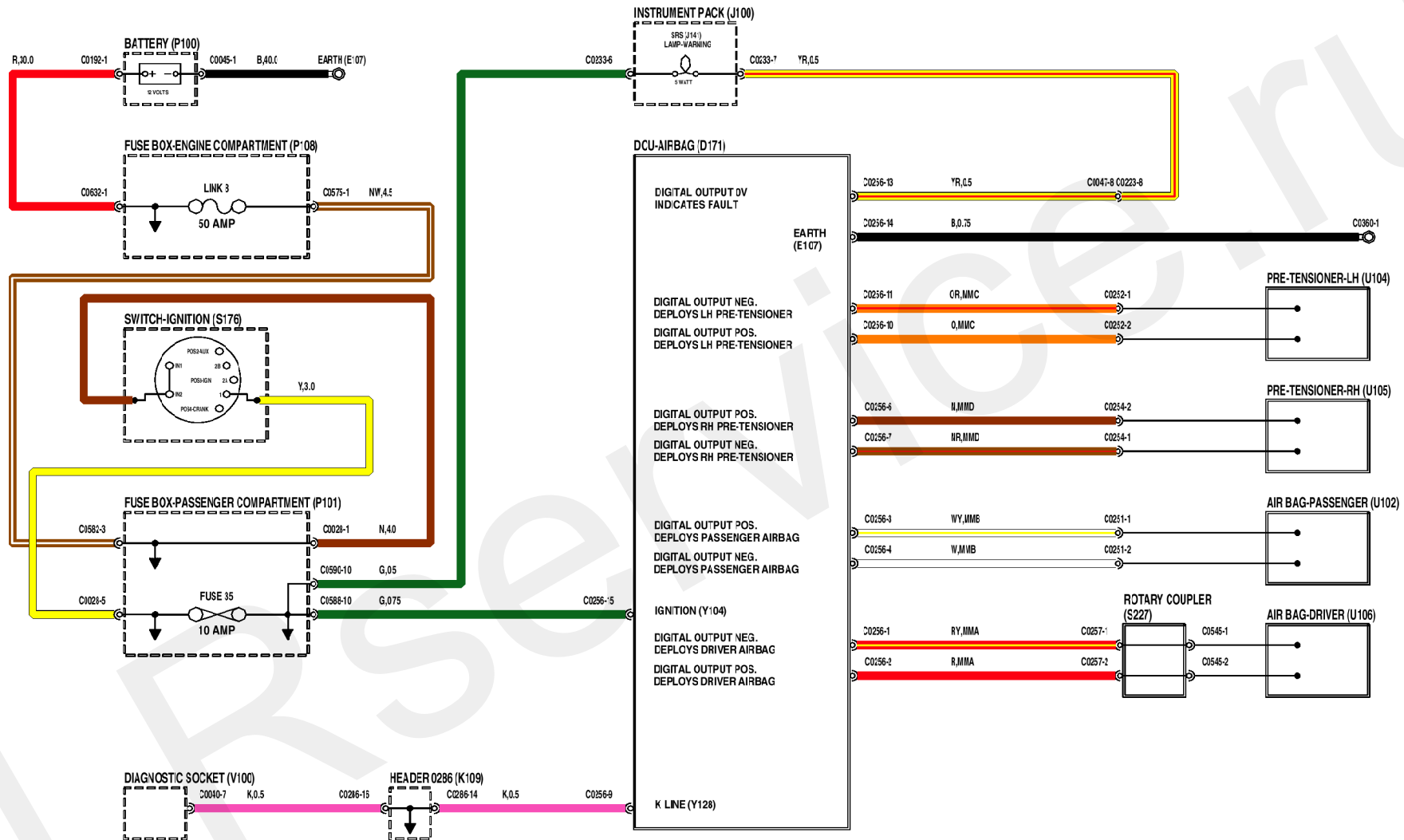


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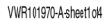


SUPPLEMENTARY RESTRAINT SYSTEM (SRS)

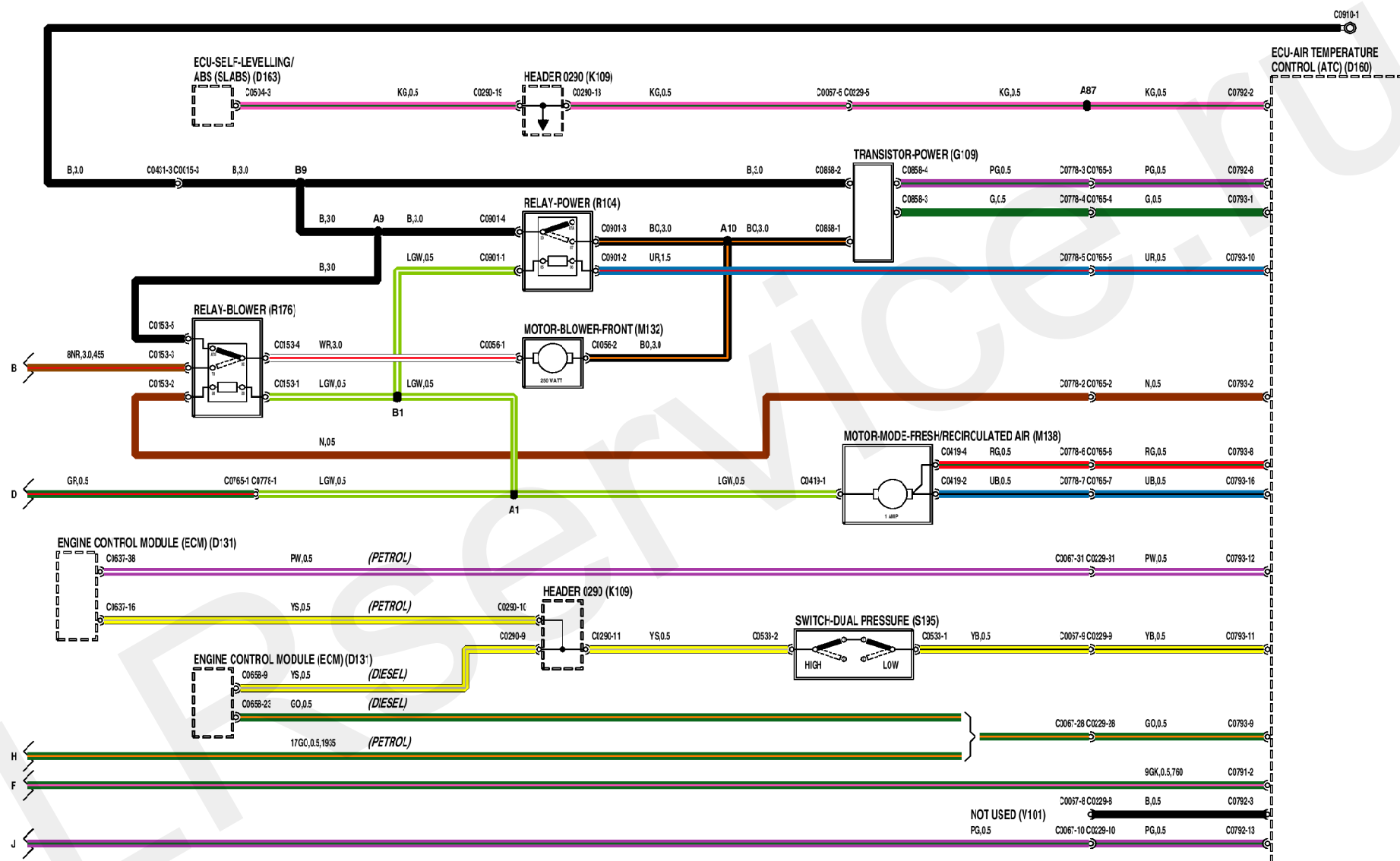


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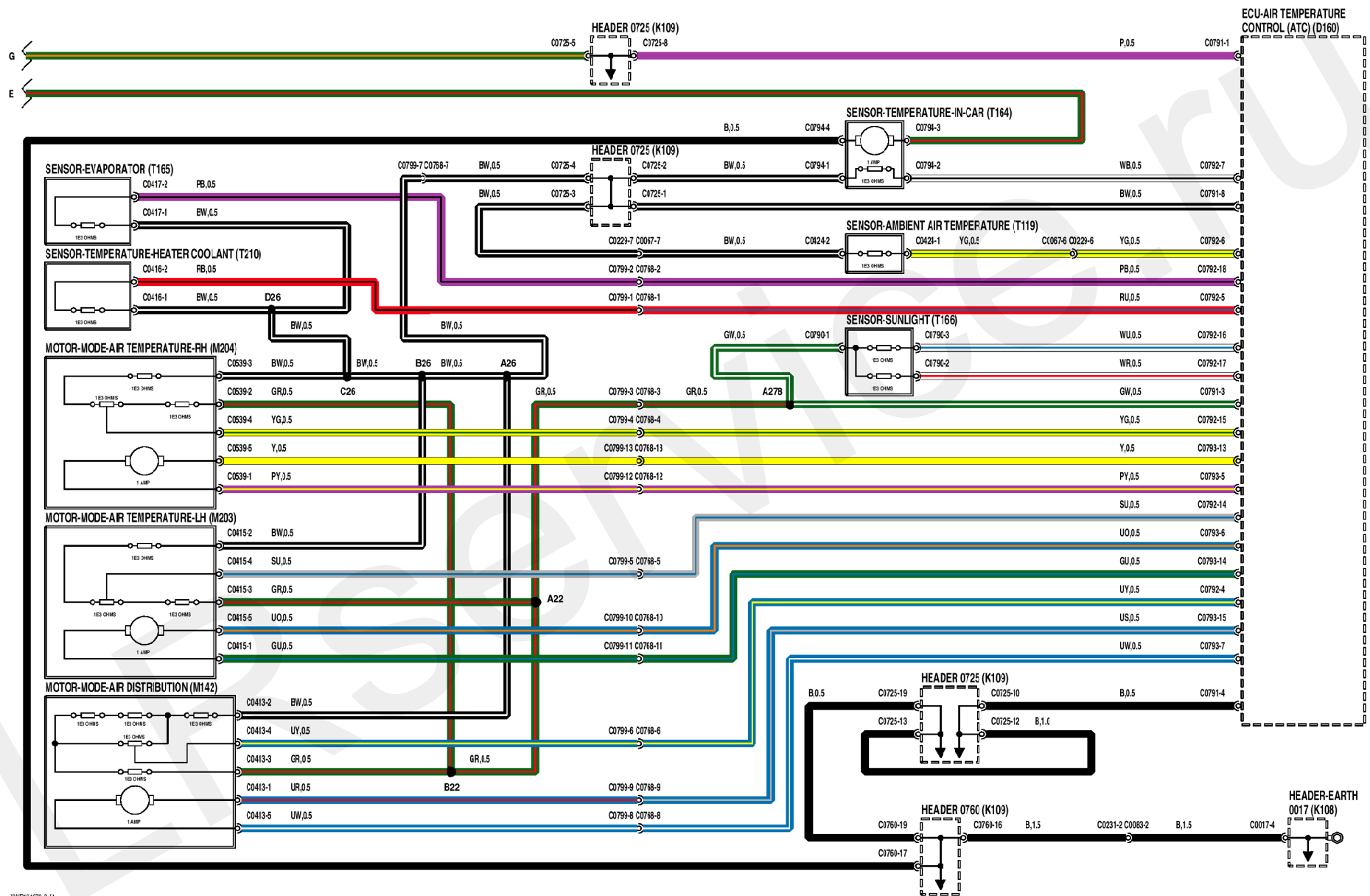
DISCOVERY SERIES II 2000MY (LHD)



AIR CONDITIONING (A/C)

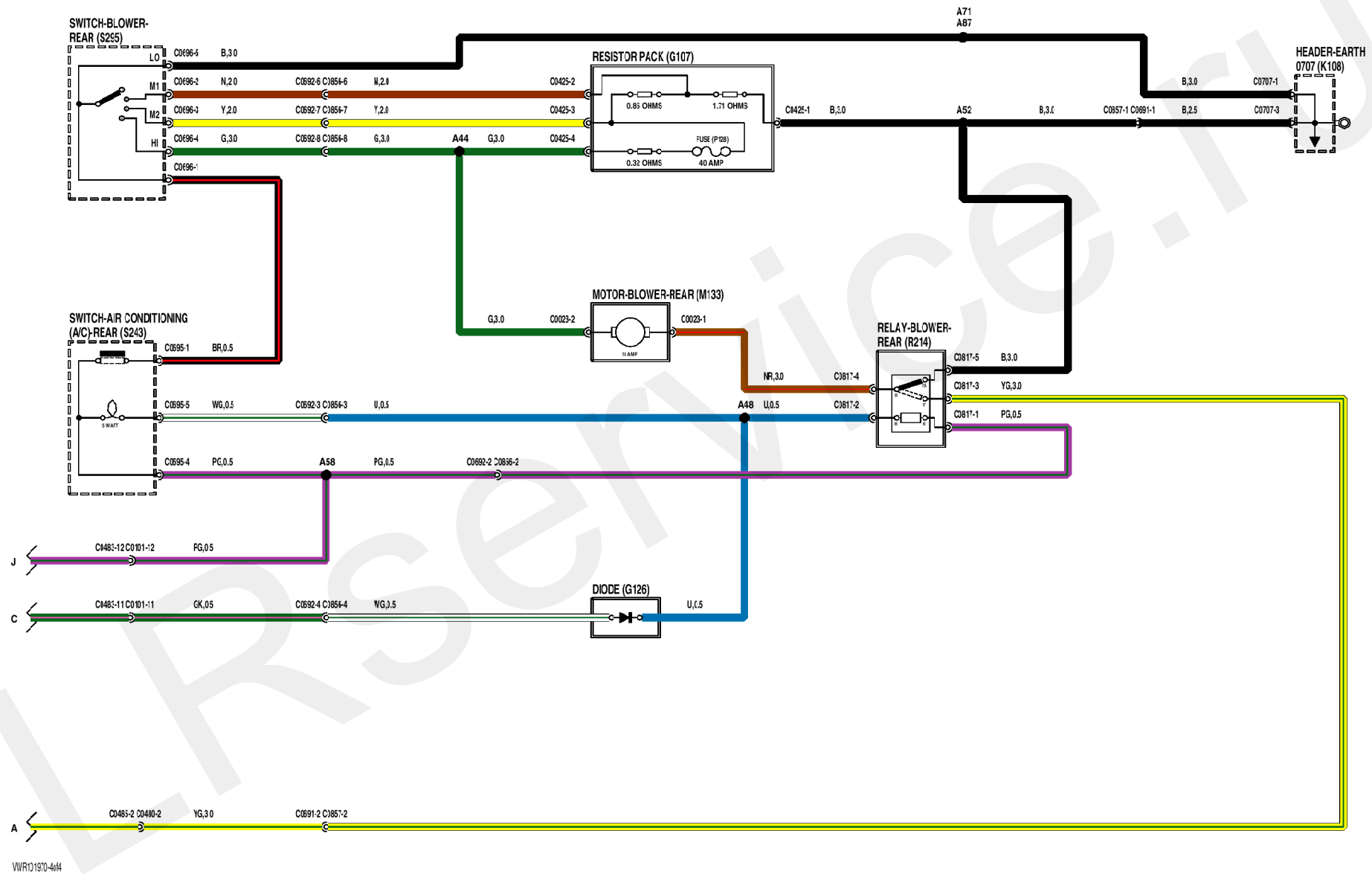


AIR CONDITIONING (A/C)

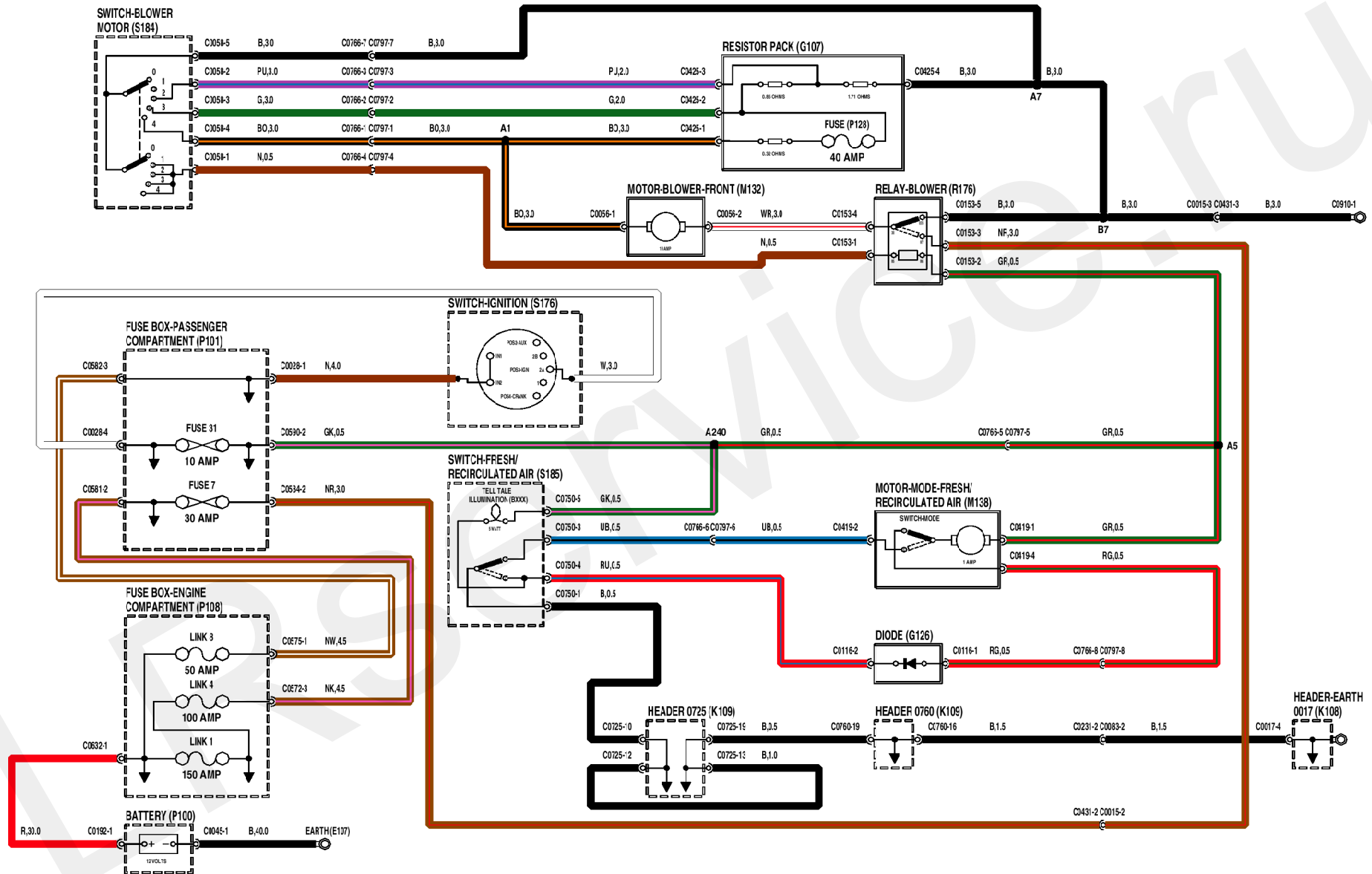


WIR01570-3d4

AIR CONDITIONING (A/C)

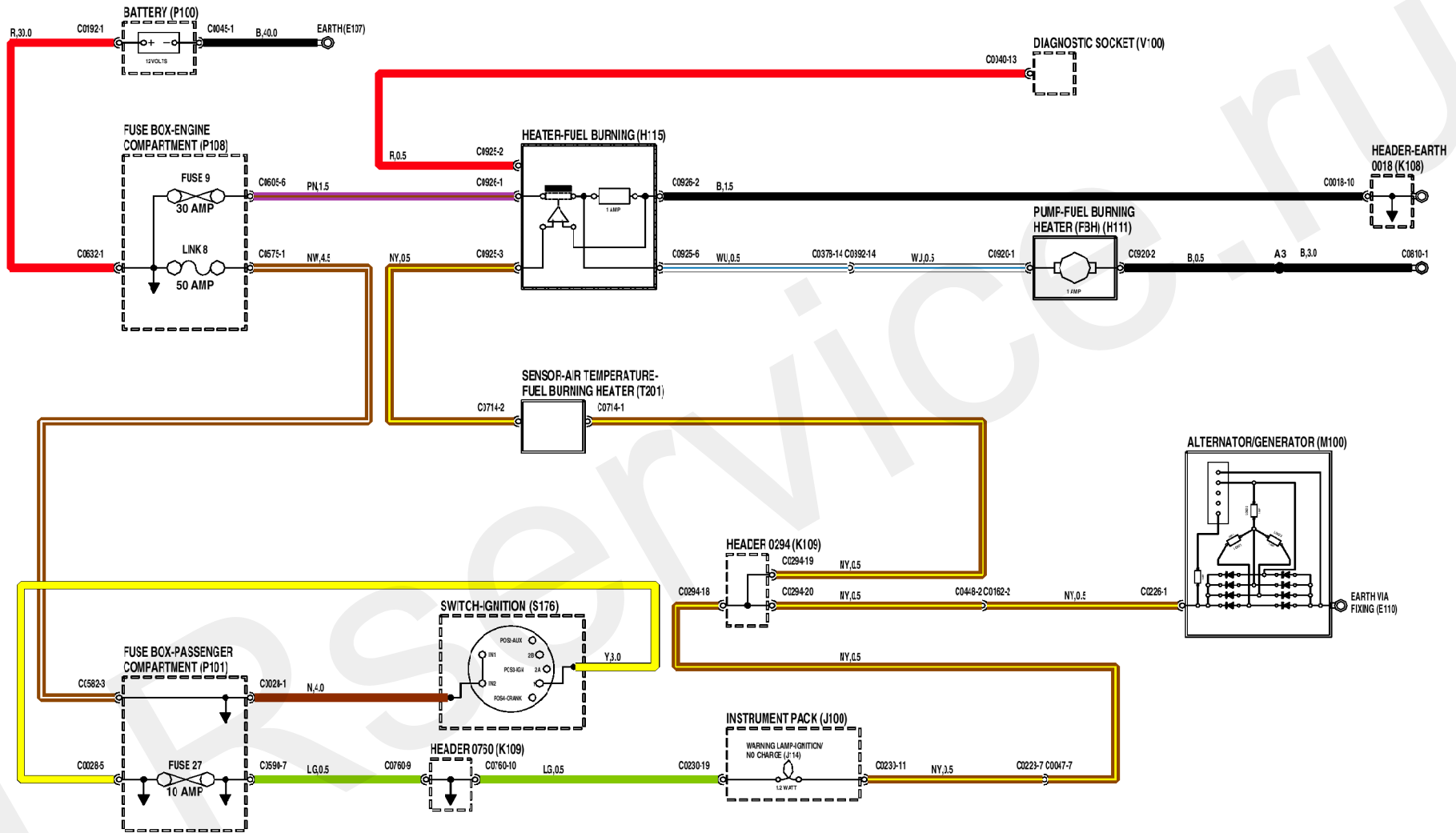


HEATER BLOWER



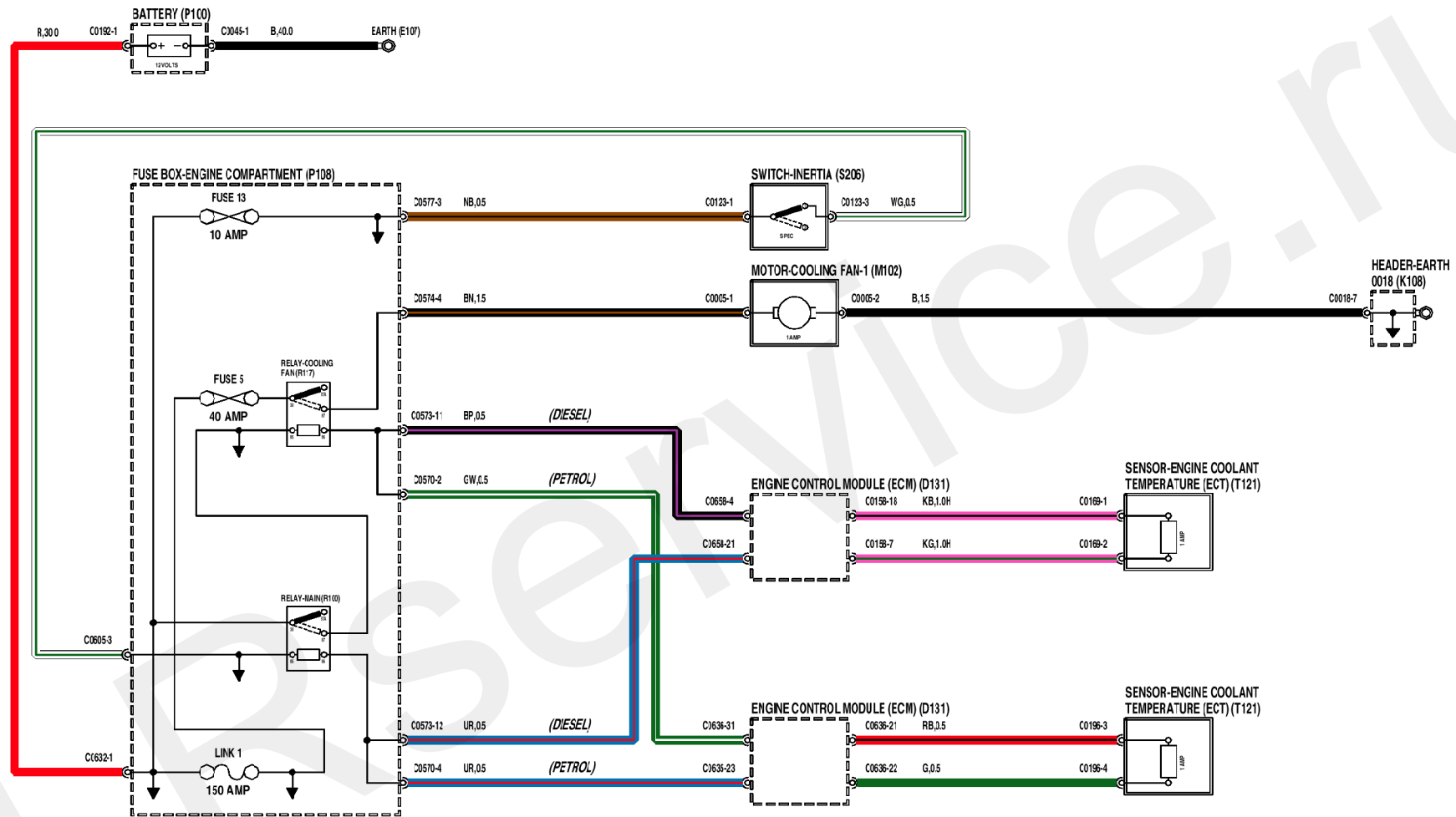
VWR12050-A-sheet1.dft

FUEL BURNING HEATER (FBH)



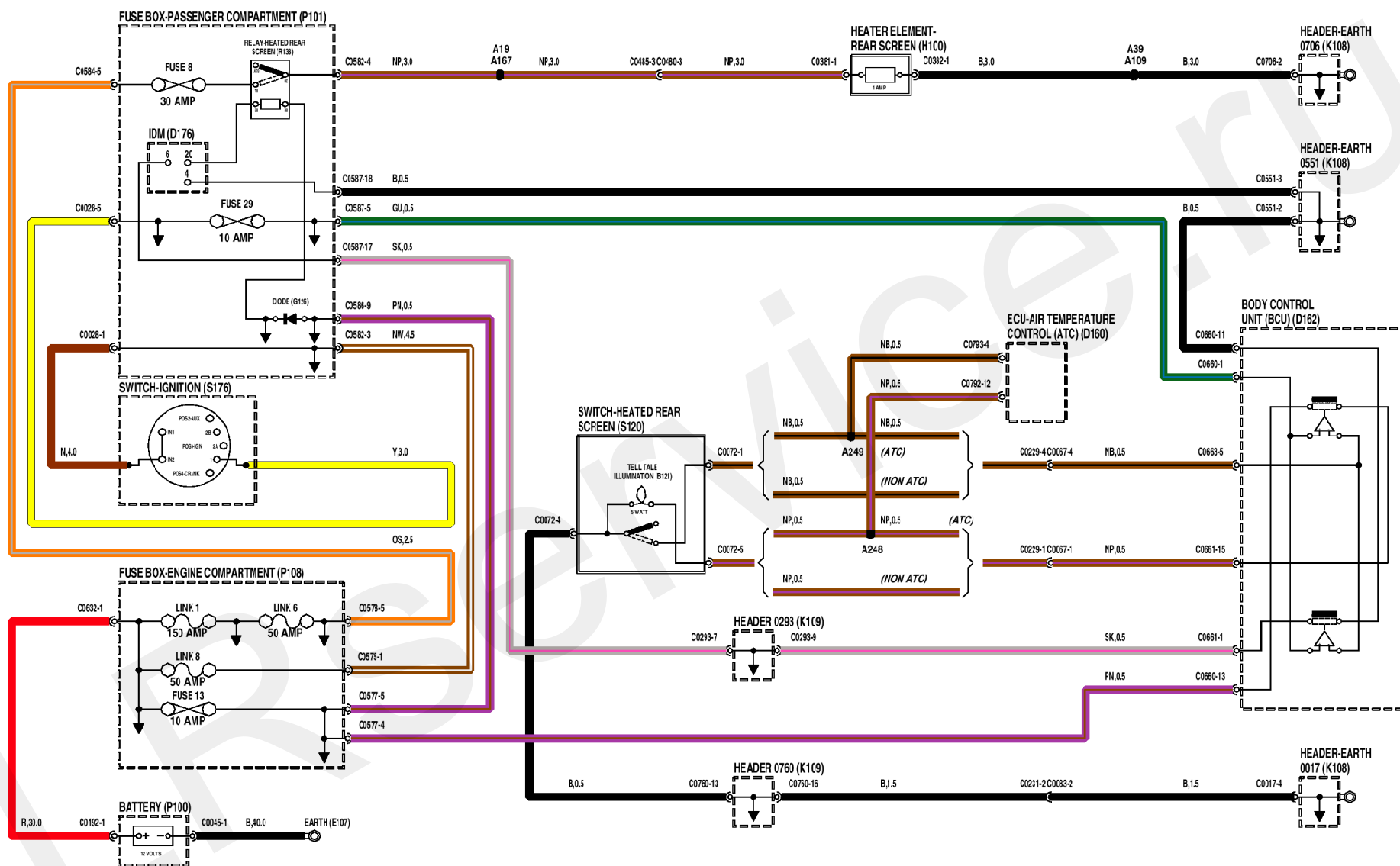
VWR1083 0-A-sheet1 of 1

COOLING FANS

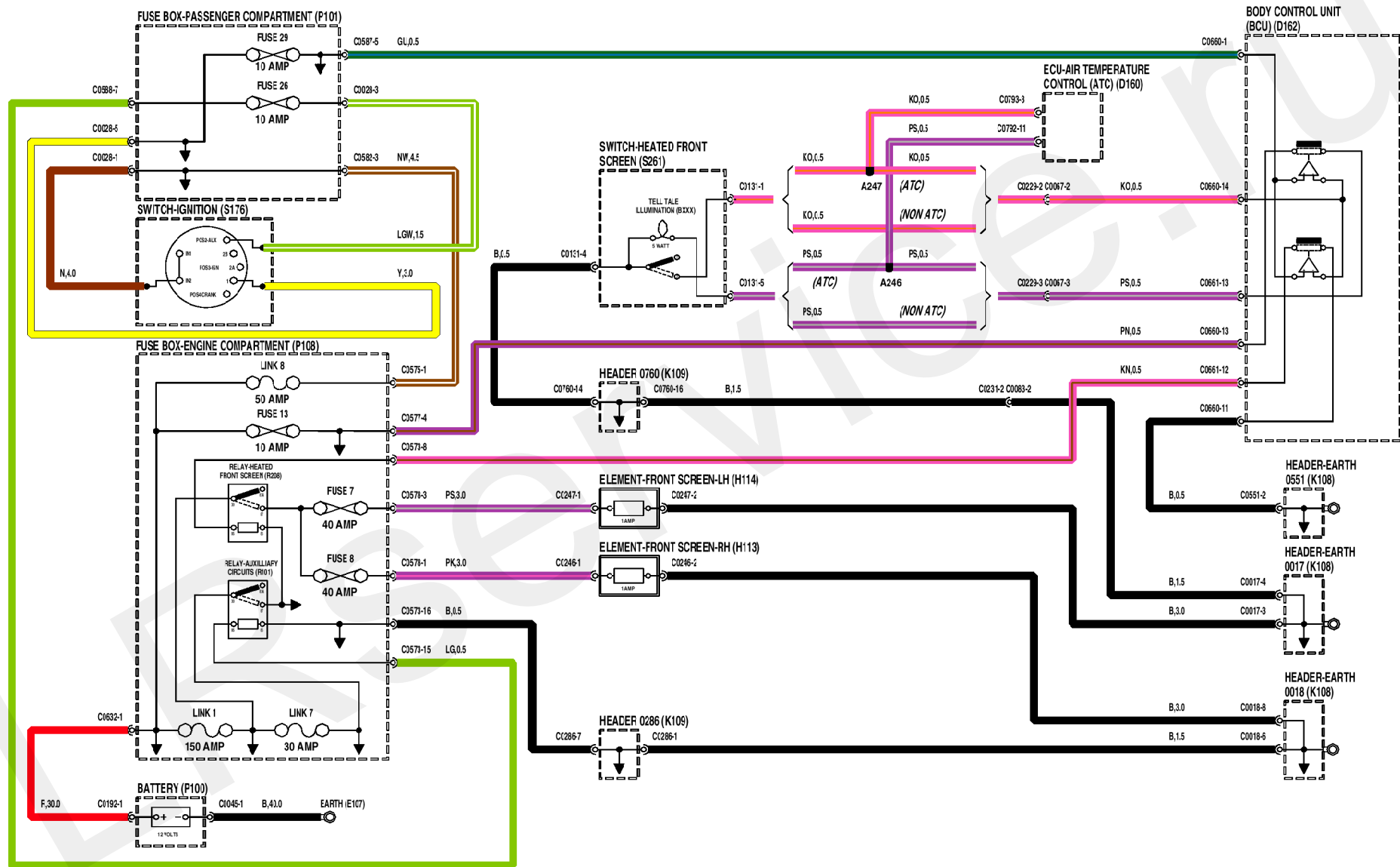


VWR12040-A-sheet1.d1

HEATED REAR WINDOW (HRW)

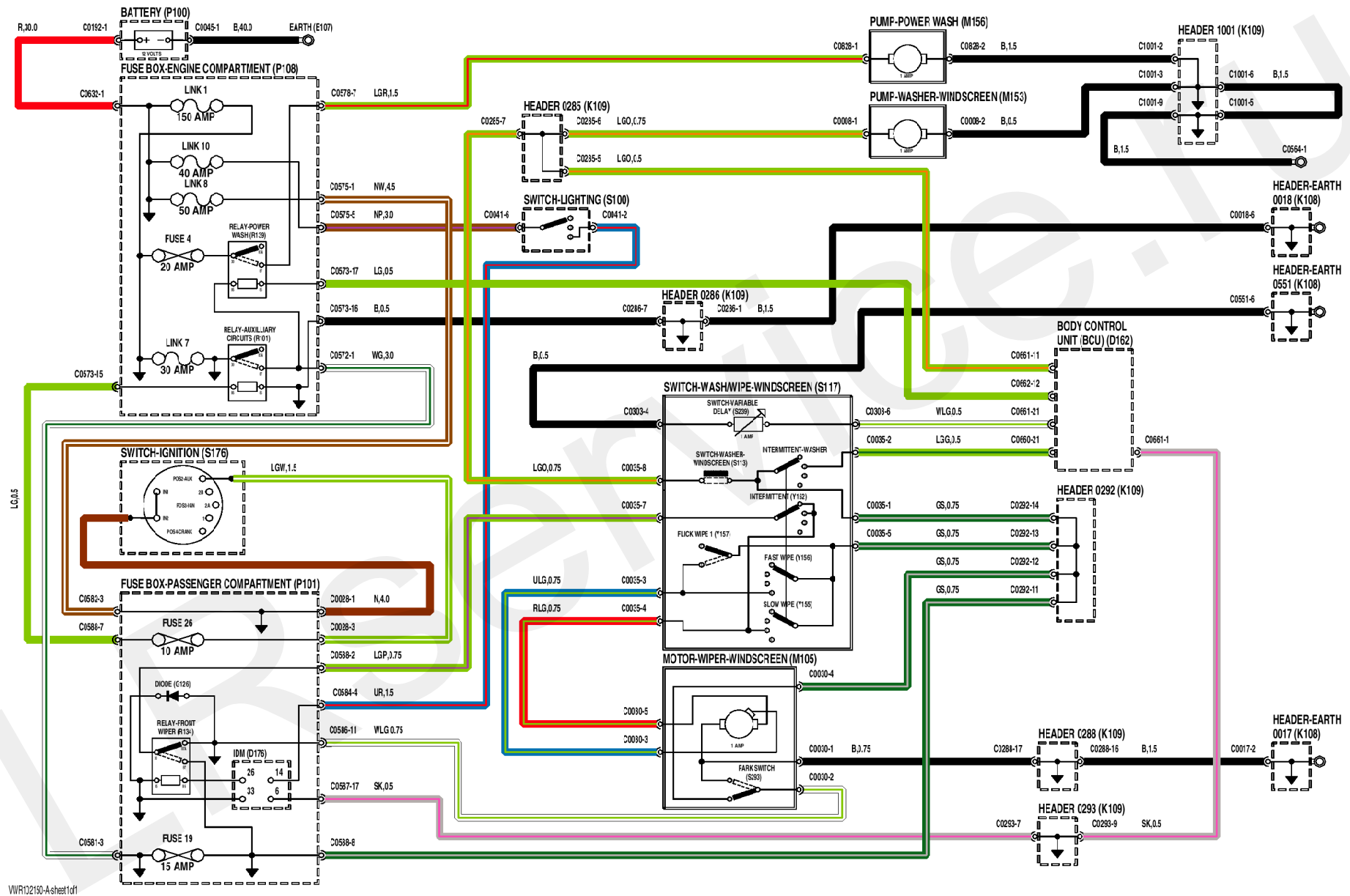


HEATED FRONT SCREEN



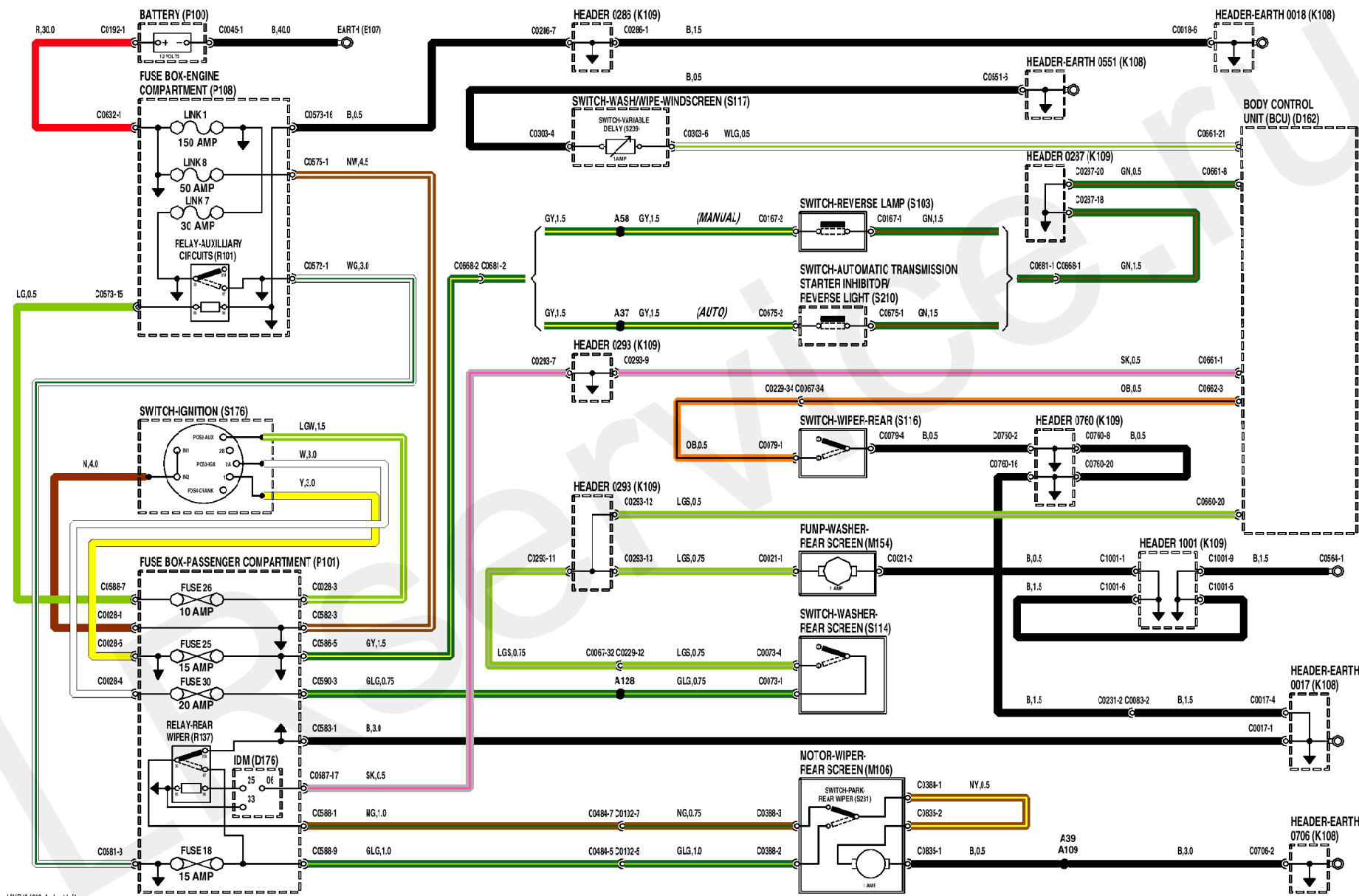
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WIPERS AND WASHERS FRONT



WVR102150-A-sheet1.d1

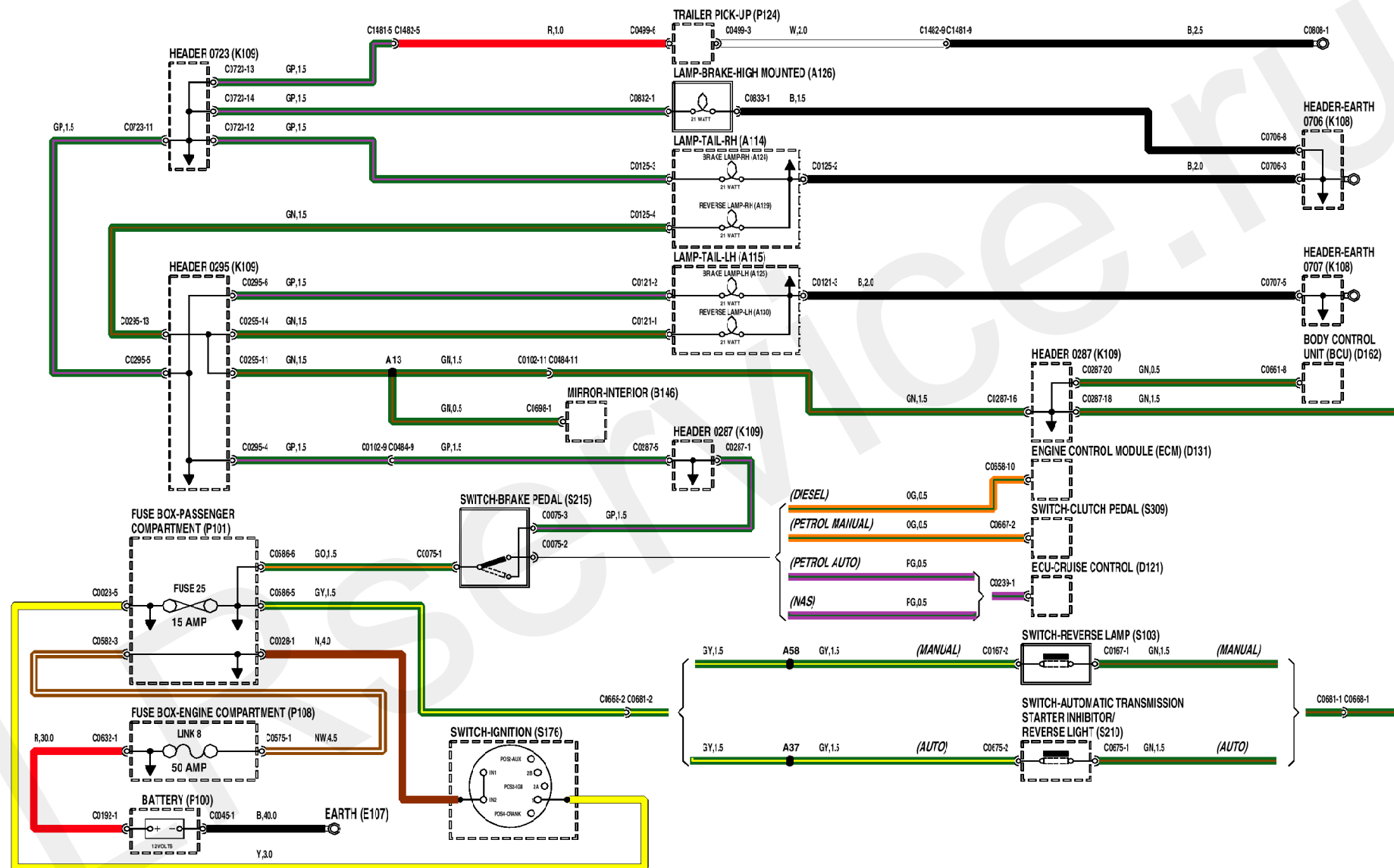
WIPERS AND WASHERS REAR



VWR104690-A-sheet1.dft

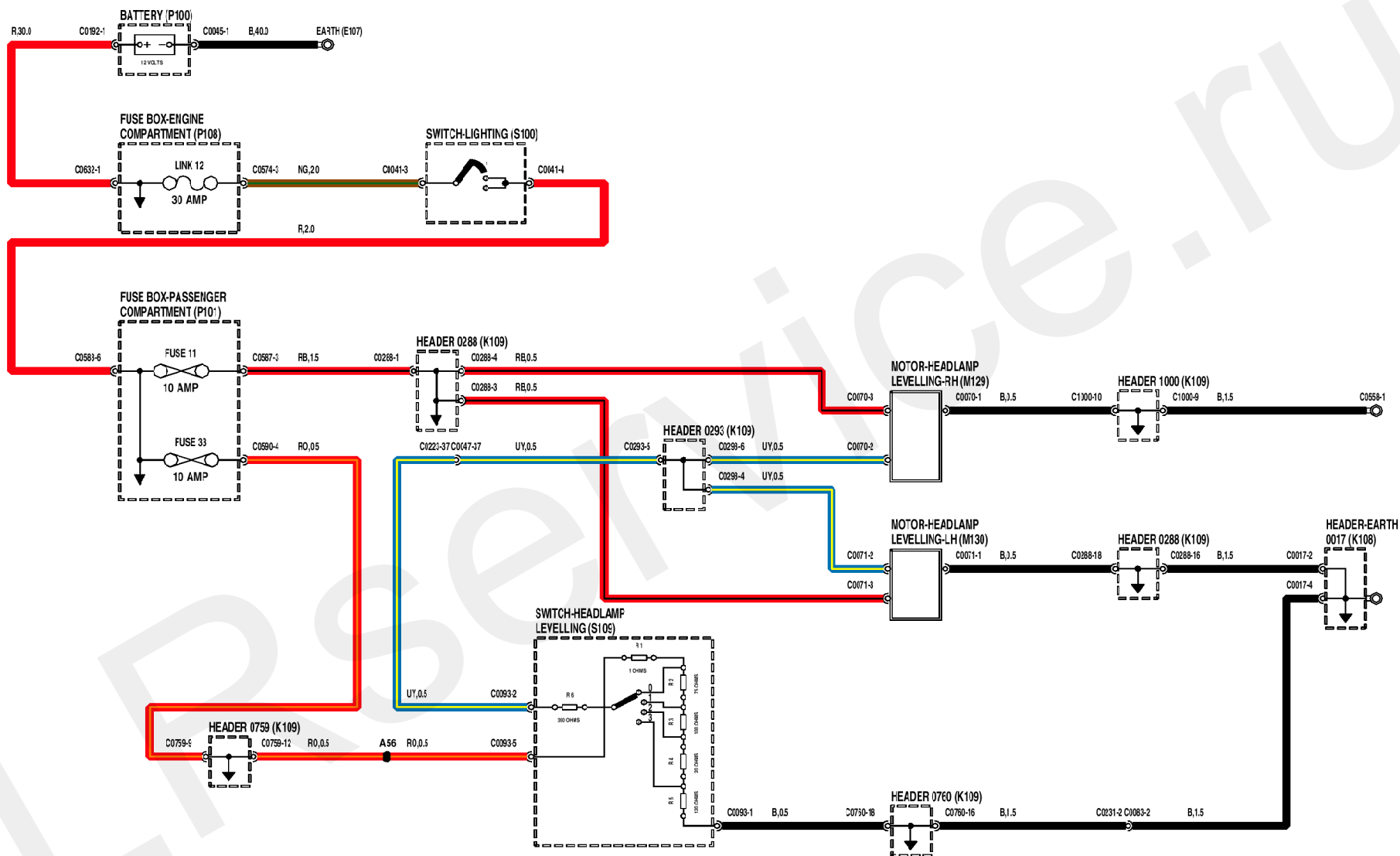
EXTERIOR LAMPS

BRAKE AND REVERSE LAMPS



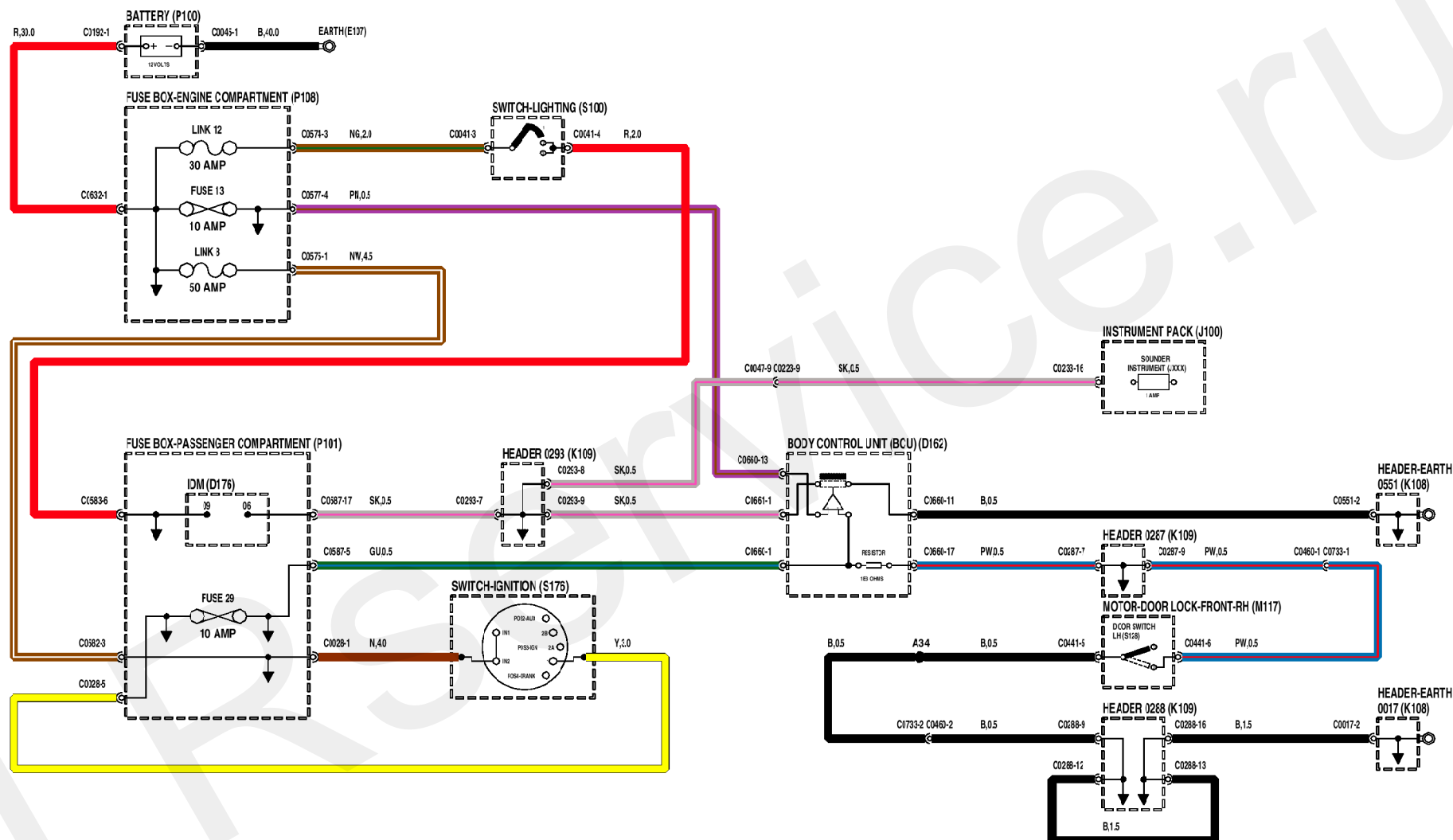
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EXTERIOR LAMPS HEADLAMP LEVELLING



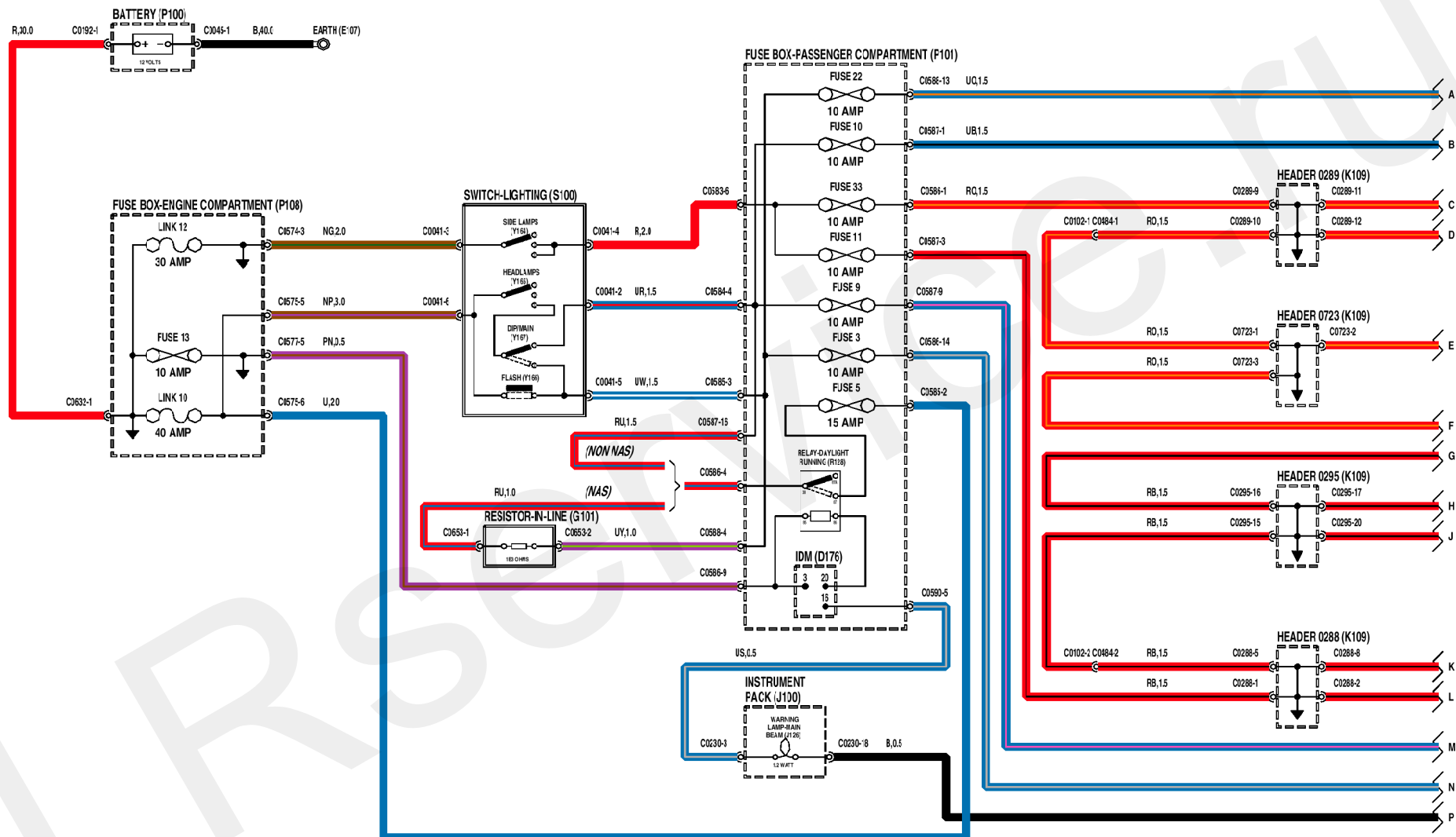
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EXTERIOR LAMPS LIGHTS ON ALARM



VWR105570-A-sheet1.d1

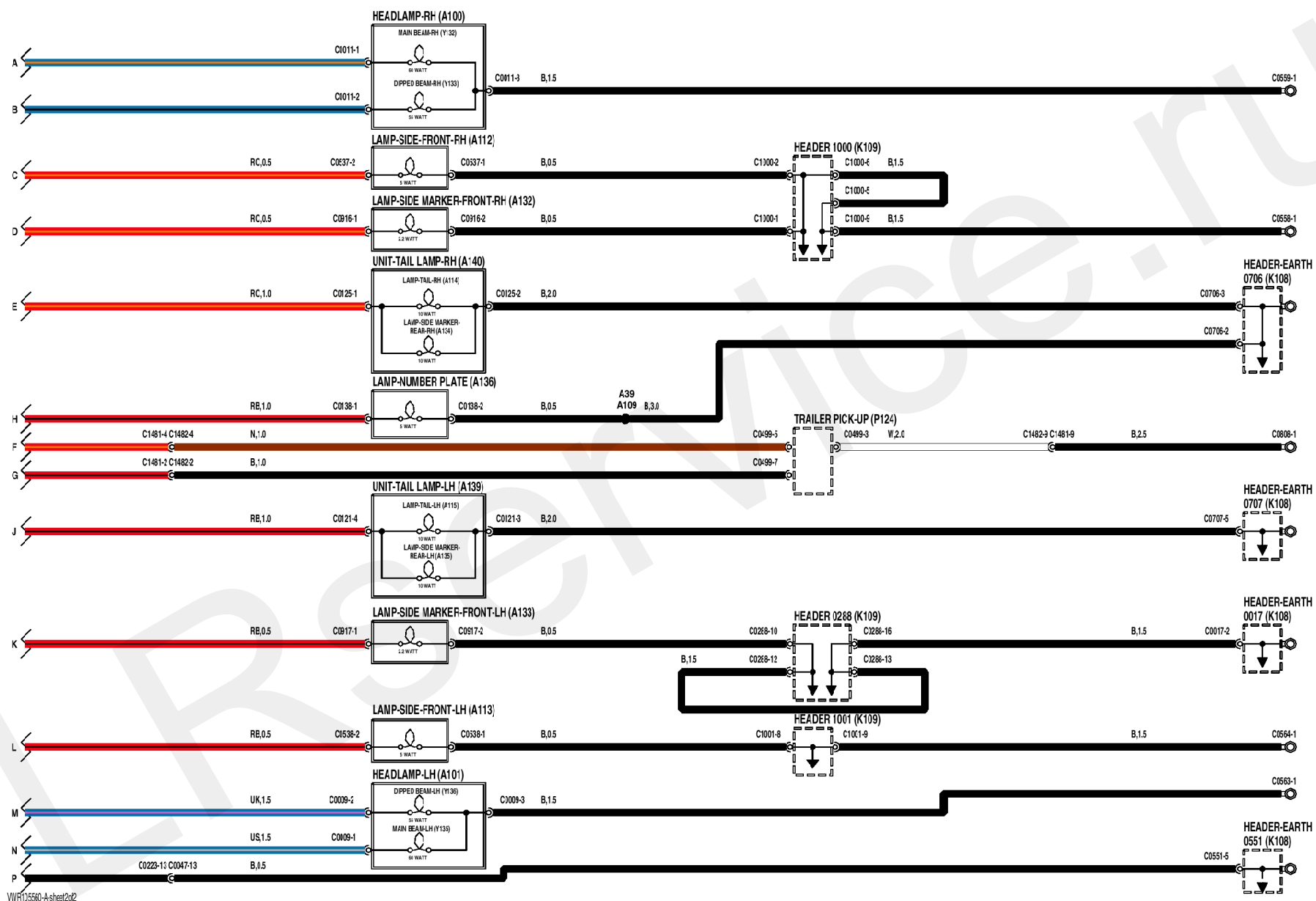
EXTERIOR LAMPS HEAD, SIDE AND TAIL LAMPS



VWR105580-A-sheet1a2

EXTERIOR LAMPS

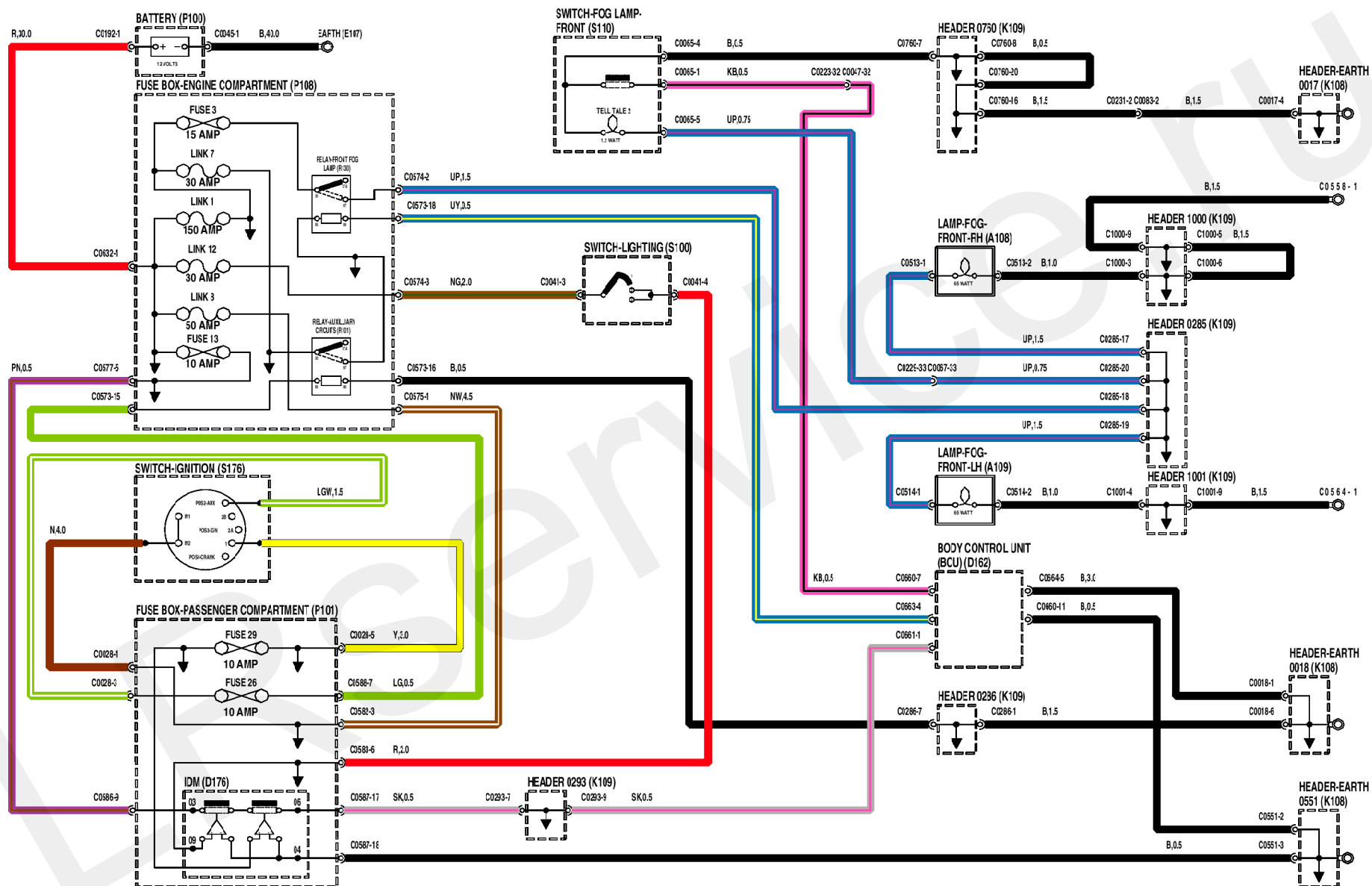
HEAD, SIDE AND TAIL LAMPS



VW1135560-A-sheet2x2

EXTERIOR LAMPS

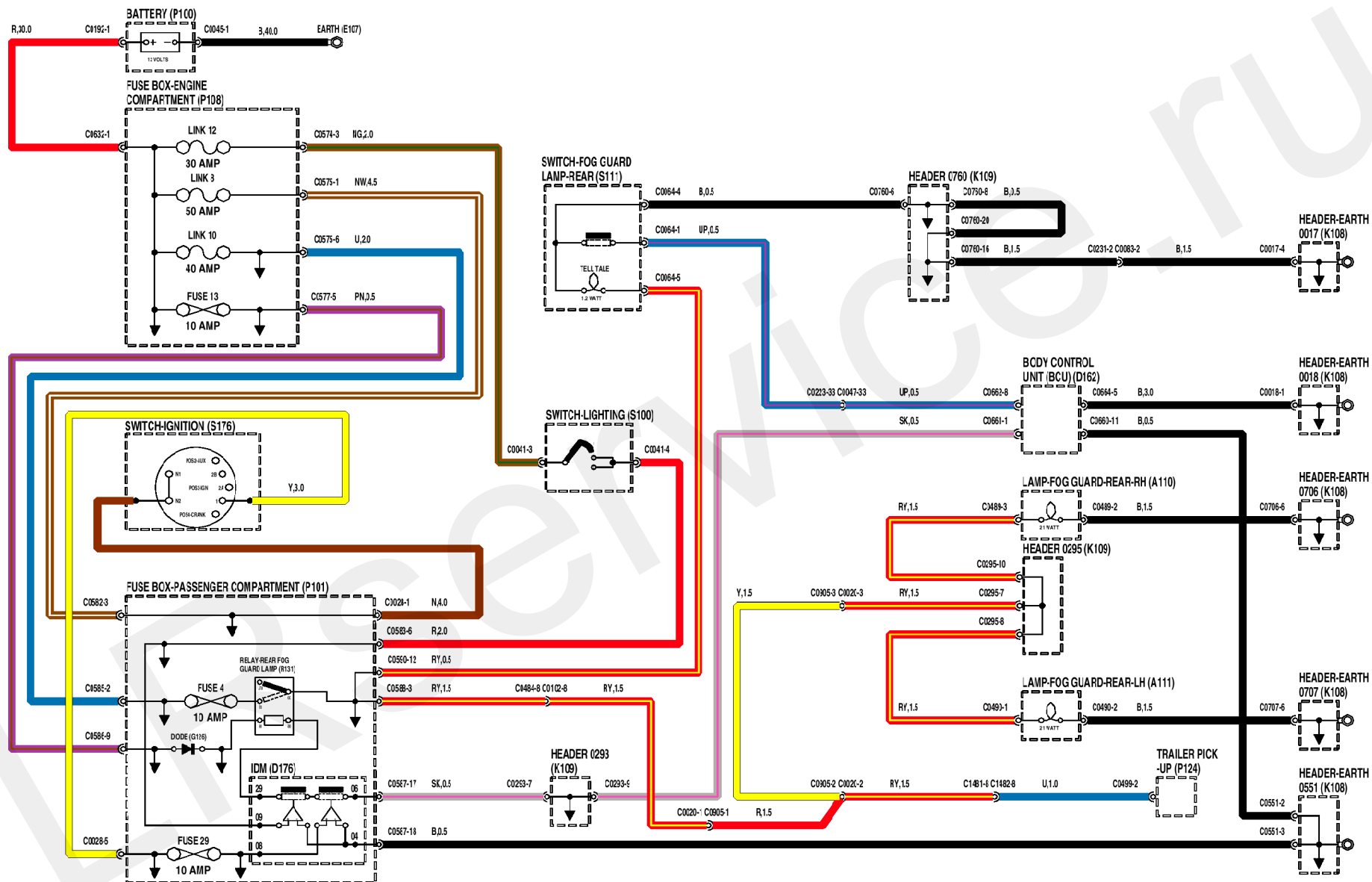
FRONT FOG LAMPS



VWR175550-A-sheet1.dft

EXTERIOR LAMPS

REAR FOG GUARD LAMPS

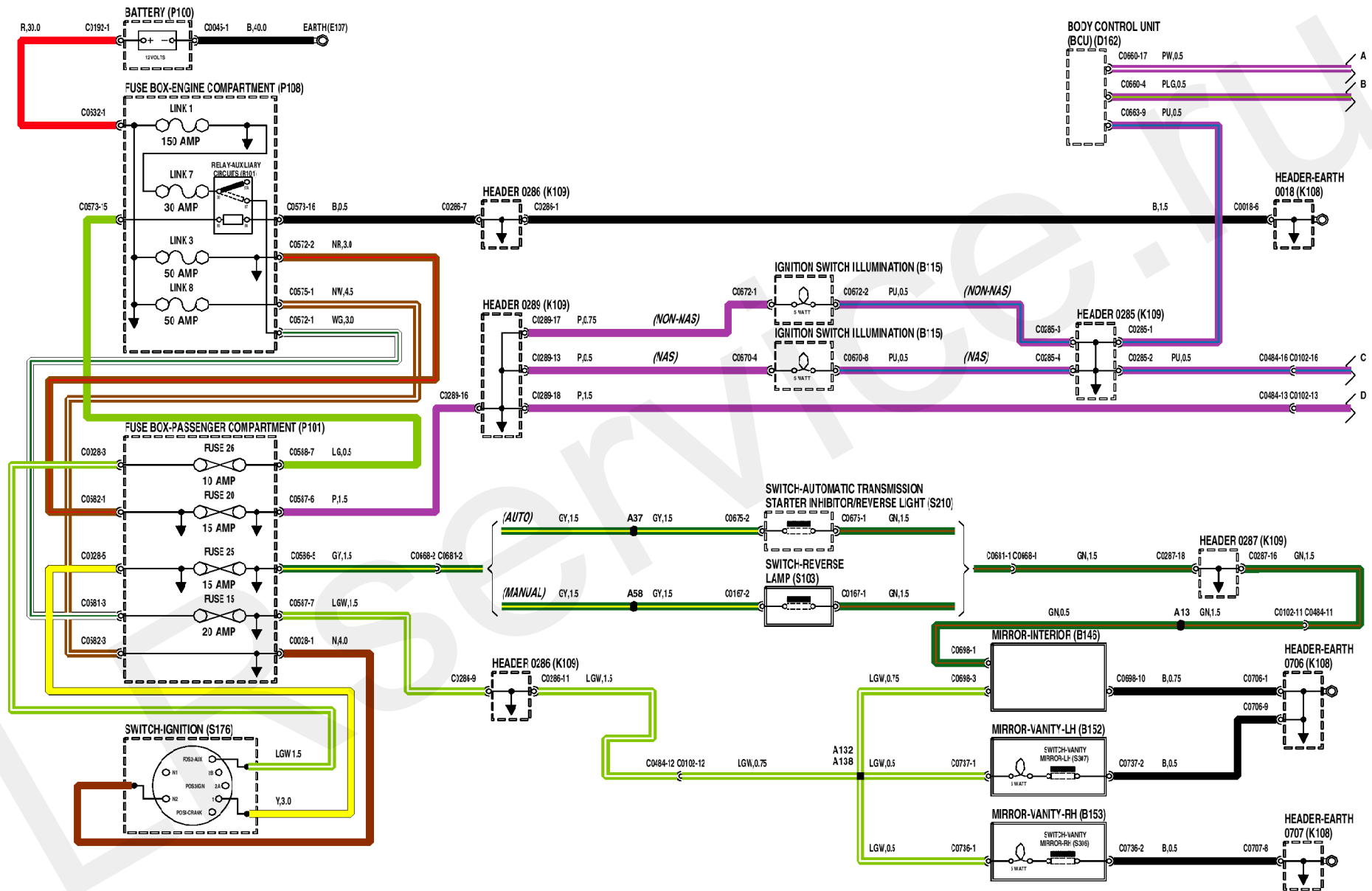


VWR105590-A-sheet 1 of 1

DIRECTION INDICATOR/HAZARD WARNING LAMPS

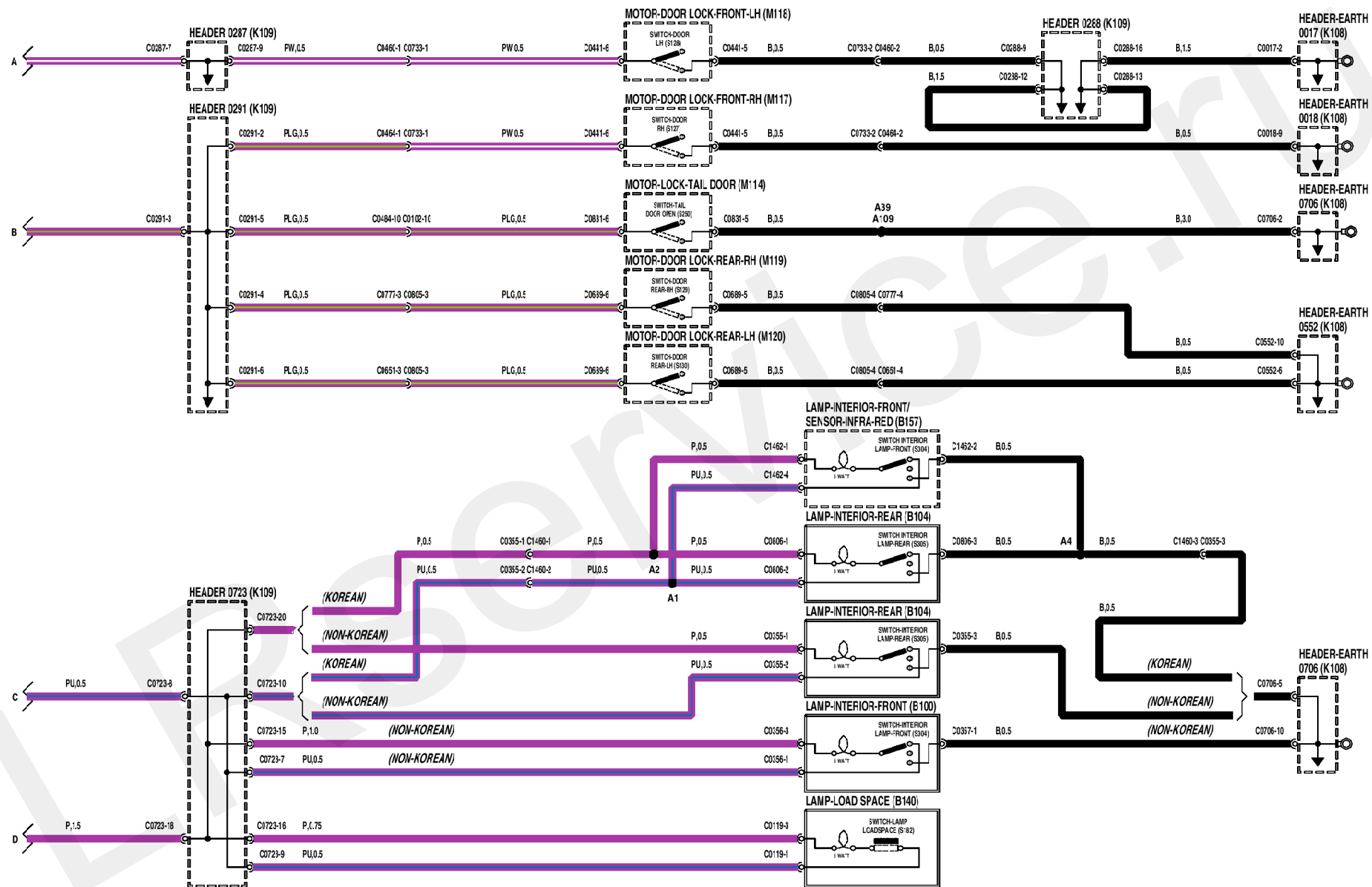


INTERIOR LAMPS



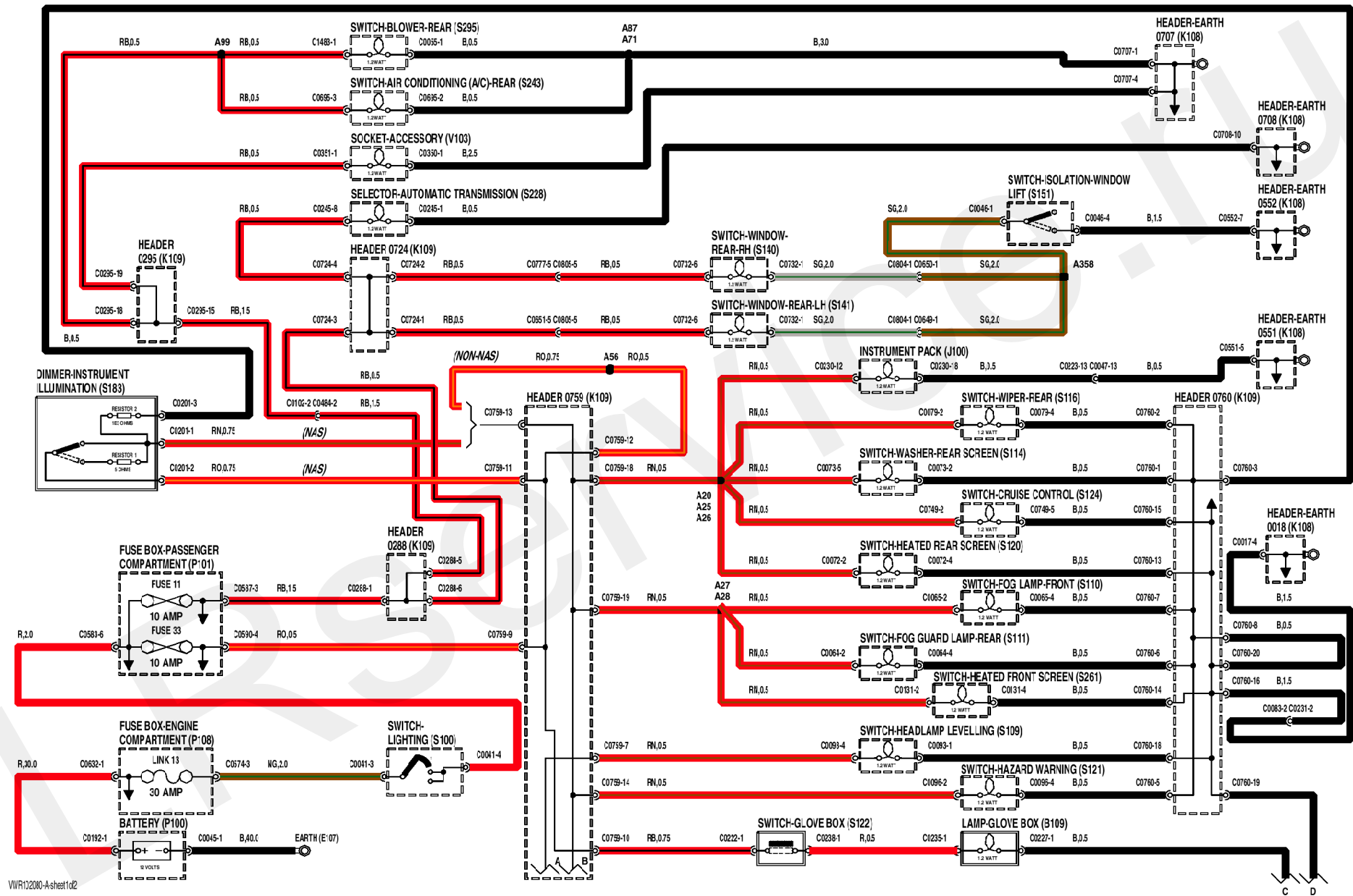
VWR175500-A-sheet1a2

INTERIOR LAMPS

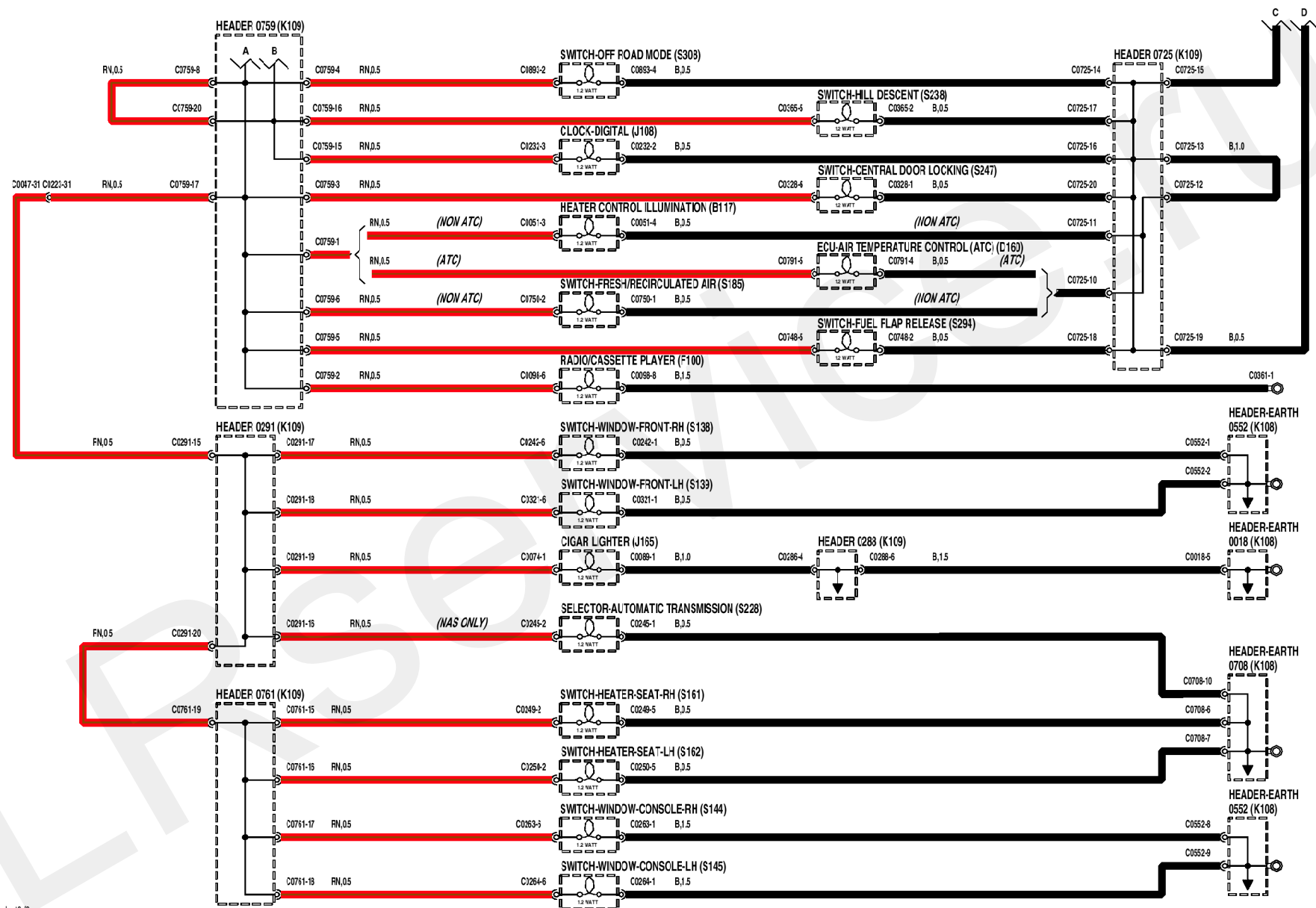


VWR105500-Asheet2d2

INTERIOR ILLUMINATION

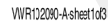


INTERIOR ILLUMINATION

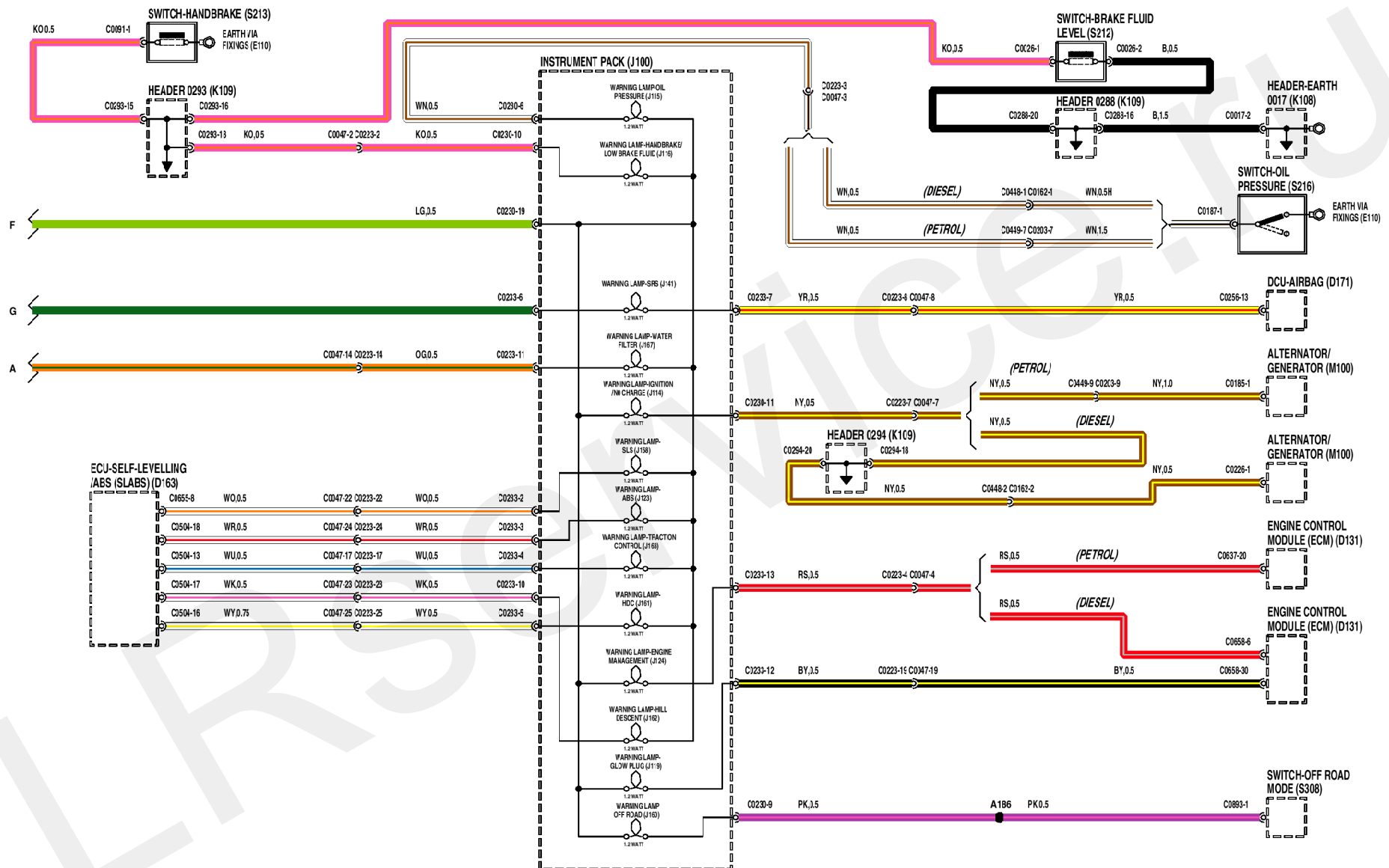


VWR172000-Asheet2d2

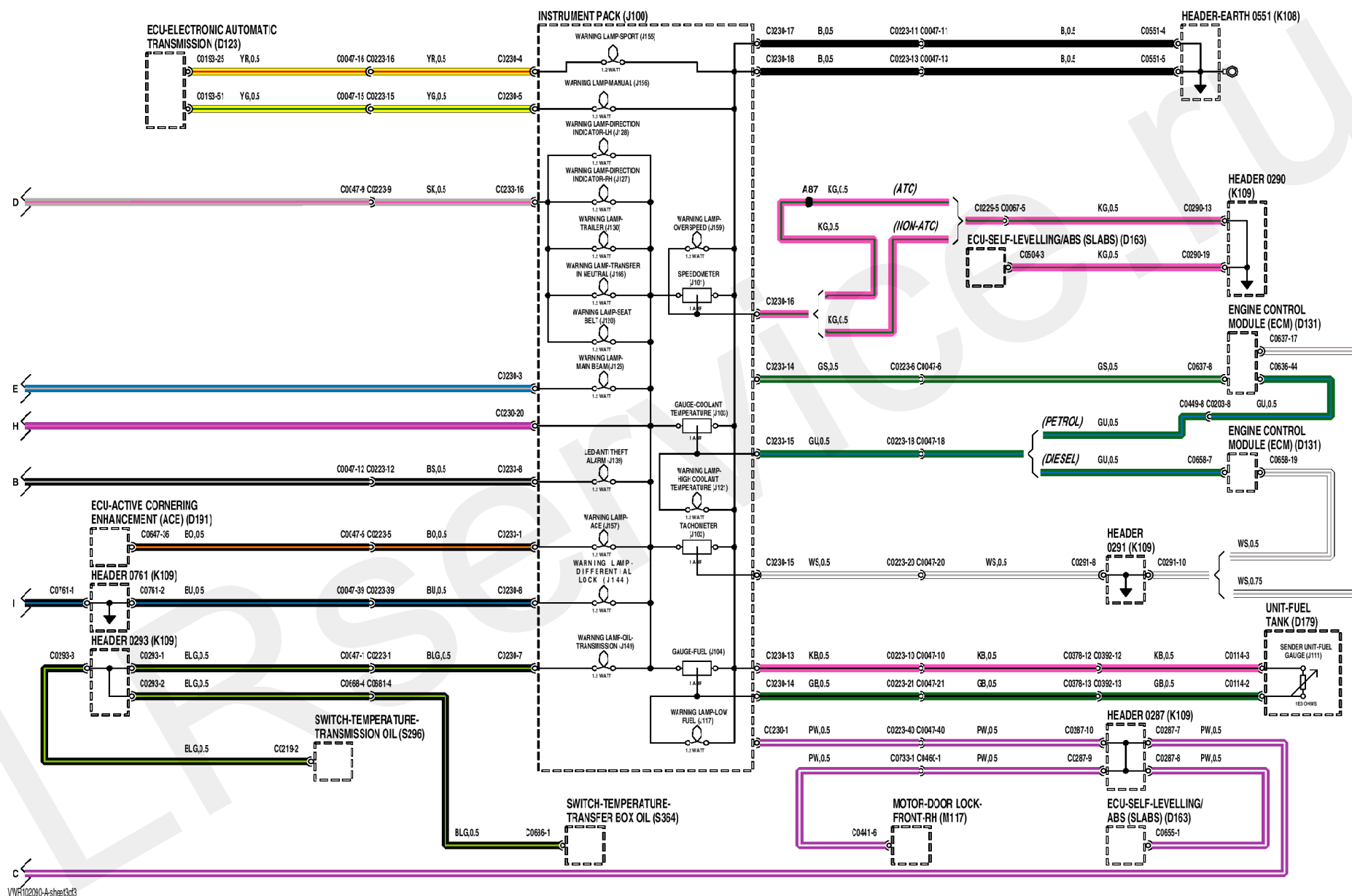
DISCOVERY SERIES II 2000MY (LHD)



INSTRUMENTS

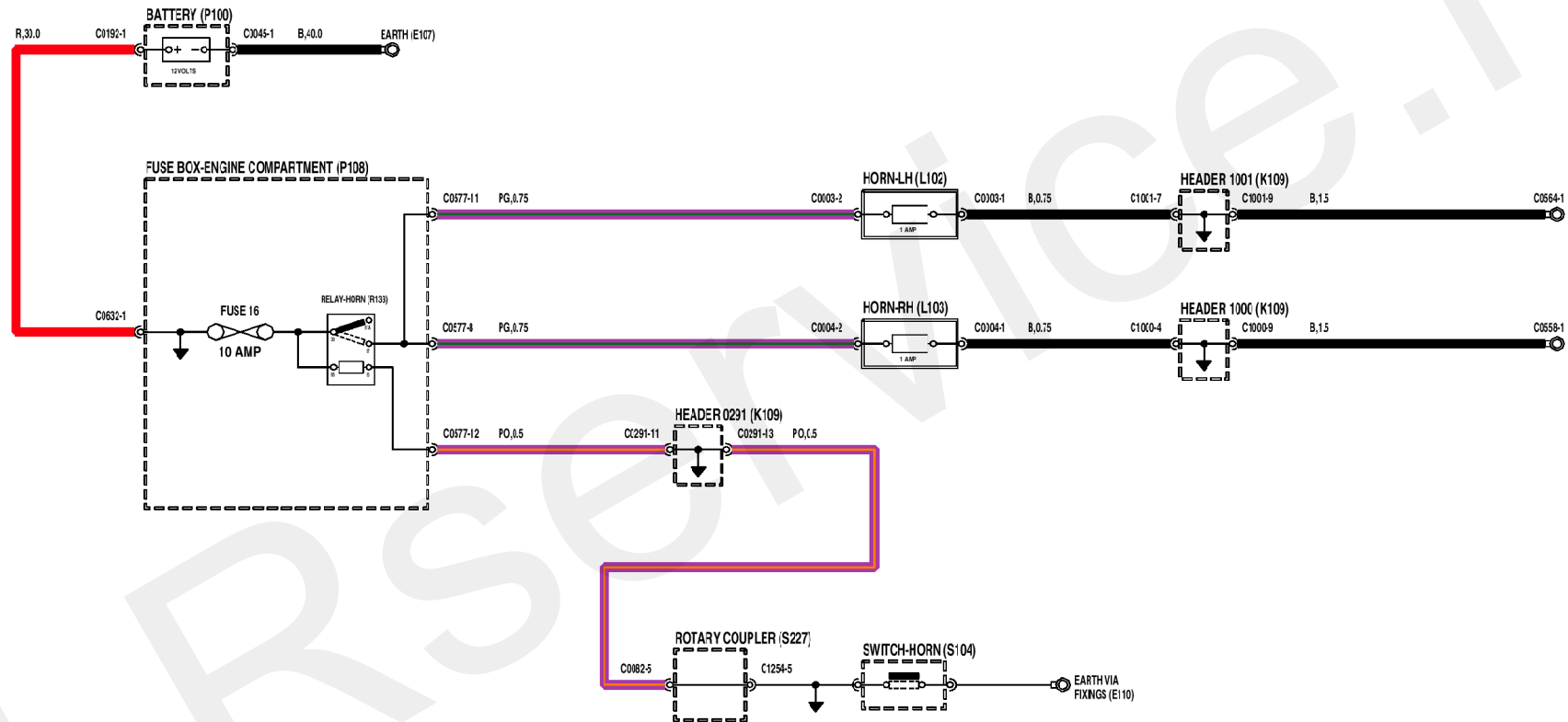


VWR12090-A-sheet2d3



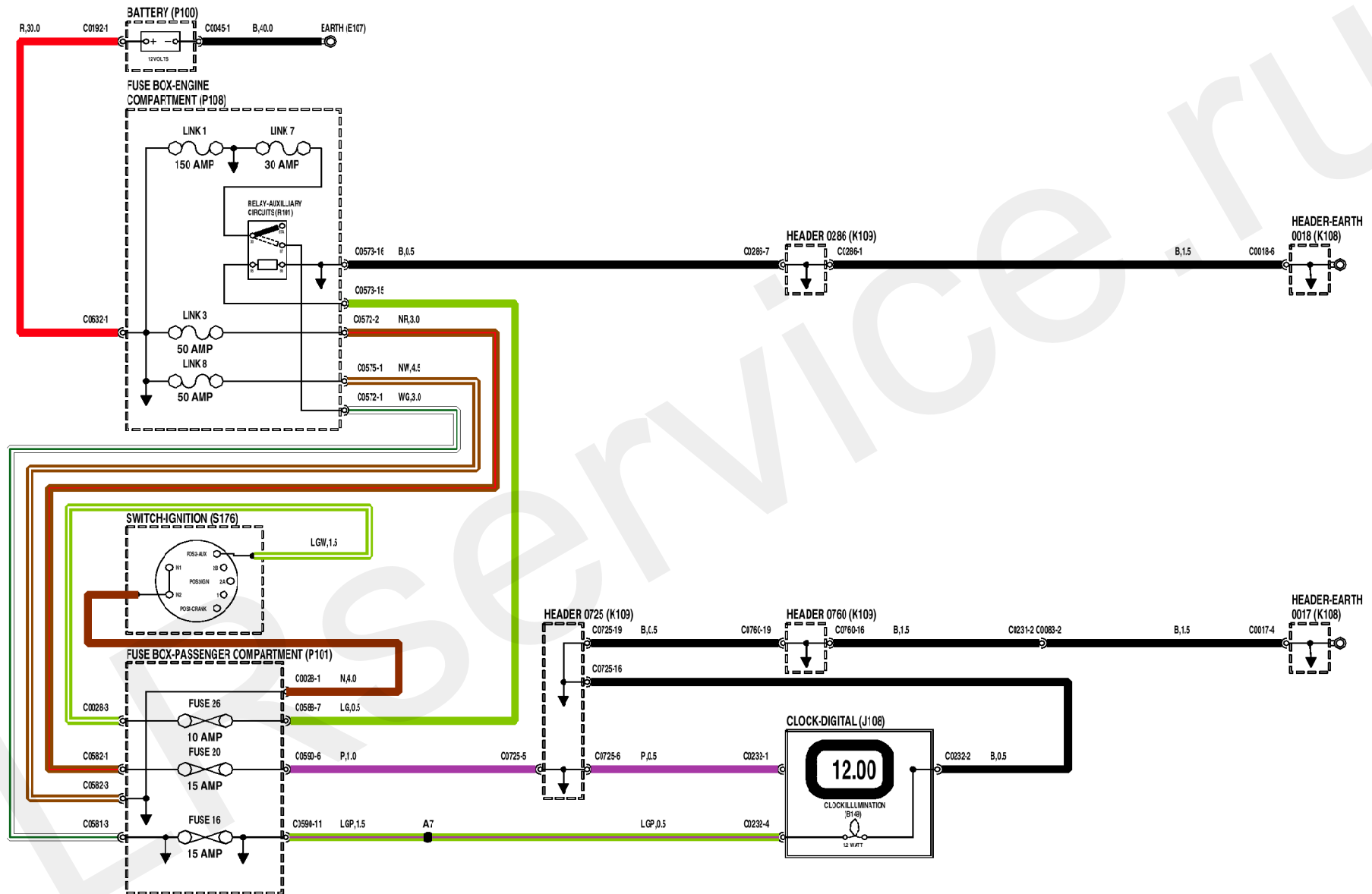
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HORNS



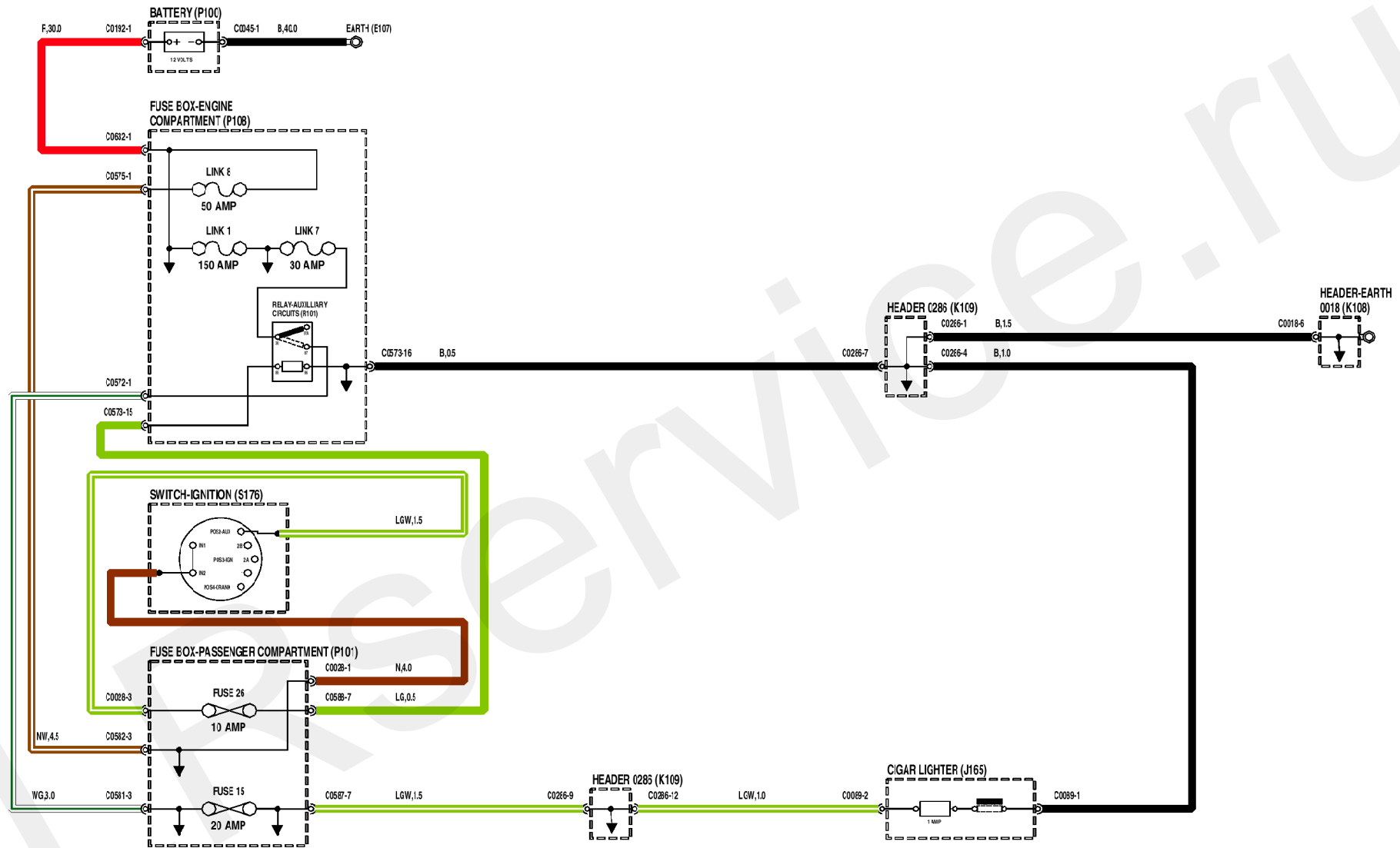
VWR105840-A-sheet1.d1

CLOCK



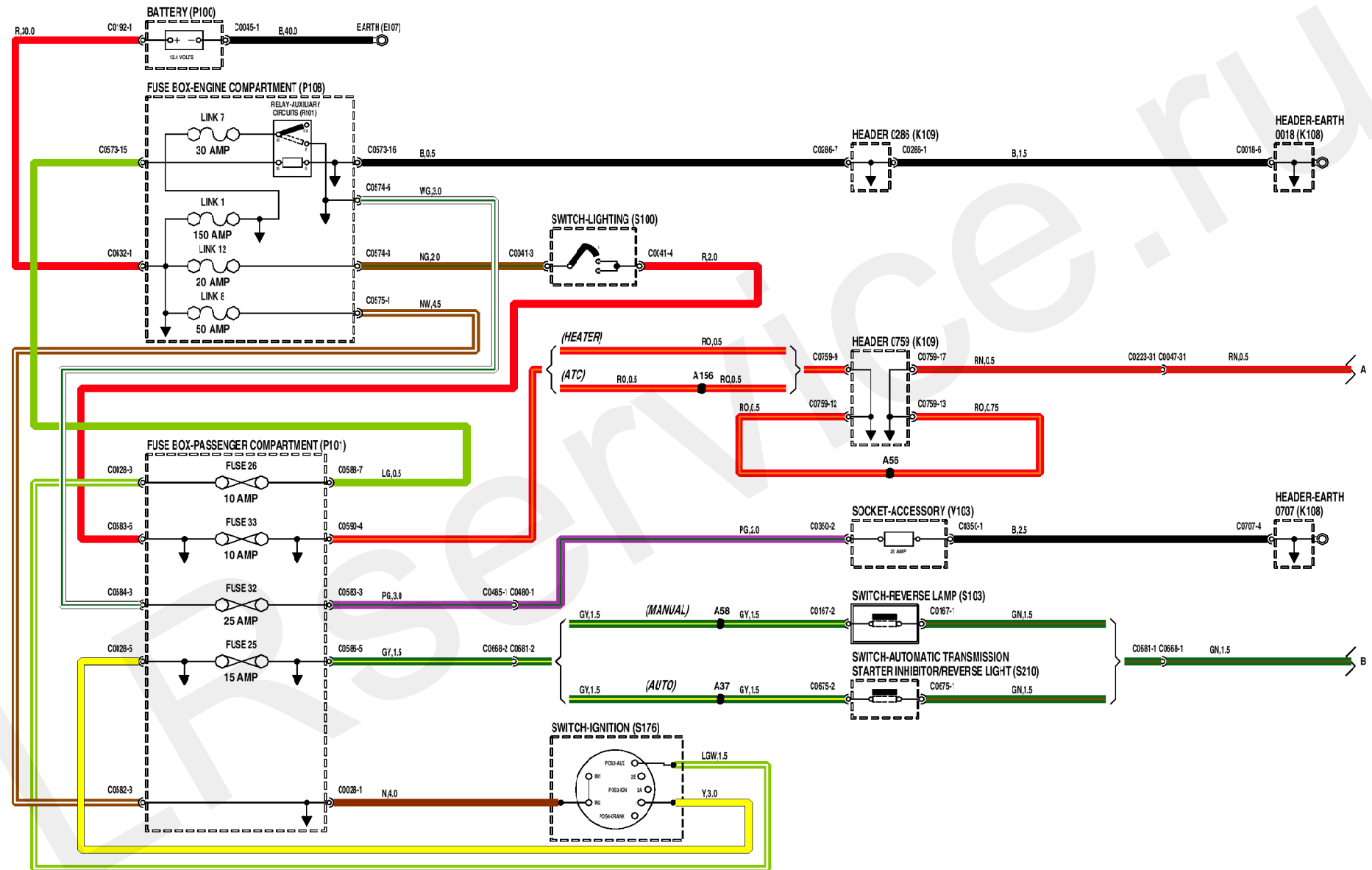
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CIGAR LIGHTER



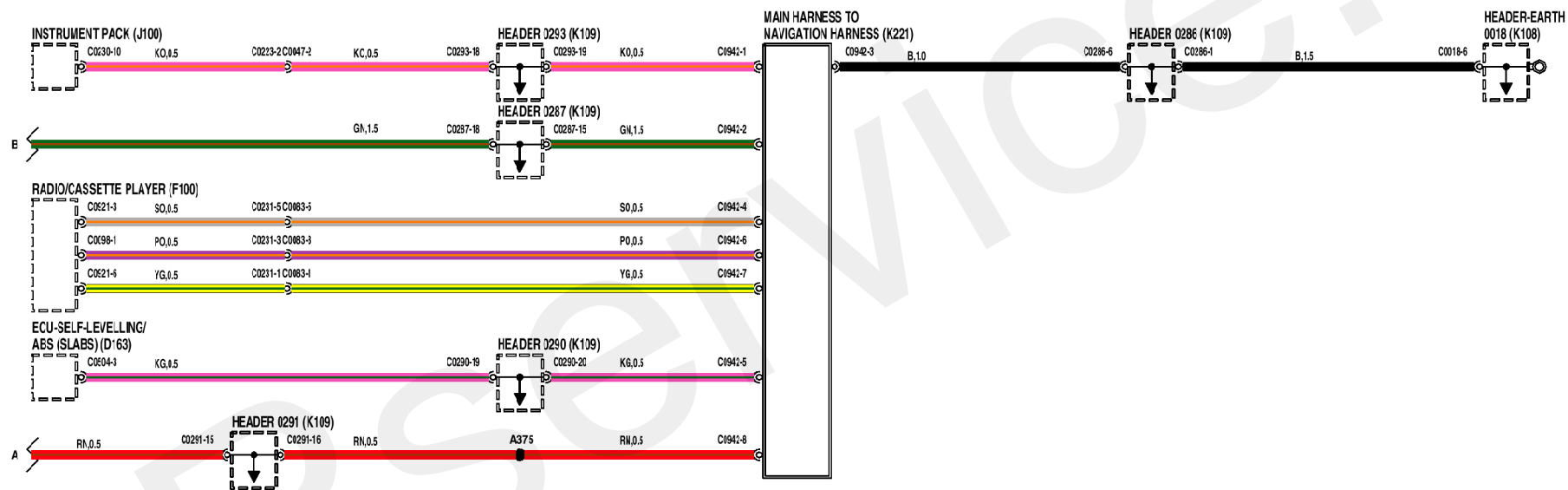
VWR120 0-A-sheet1.d1

ACCESSORY SOCKET



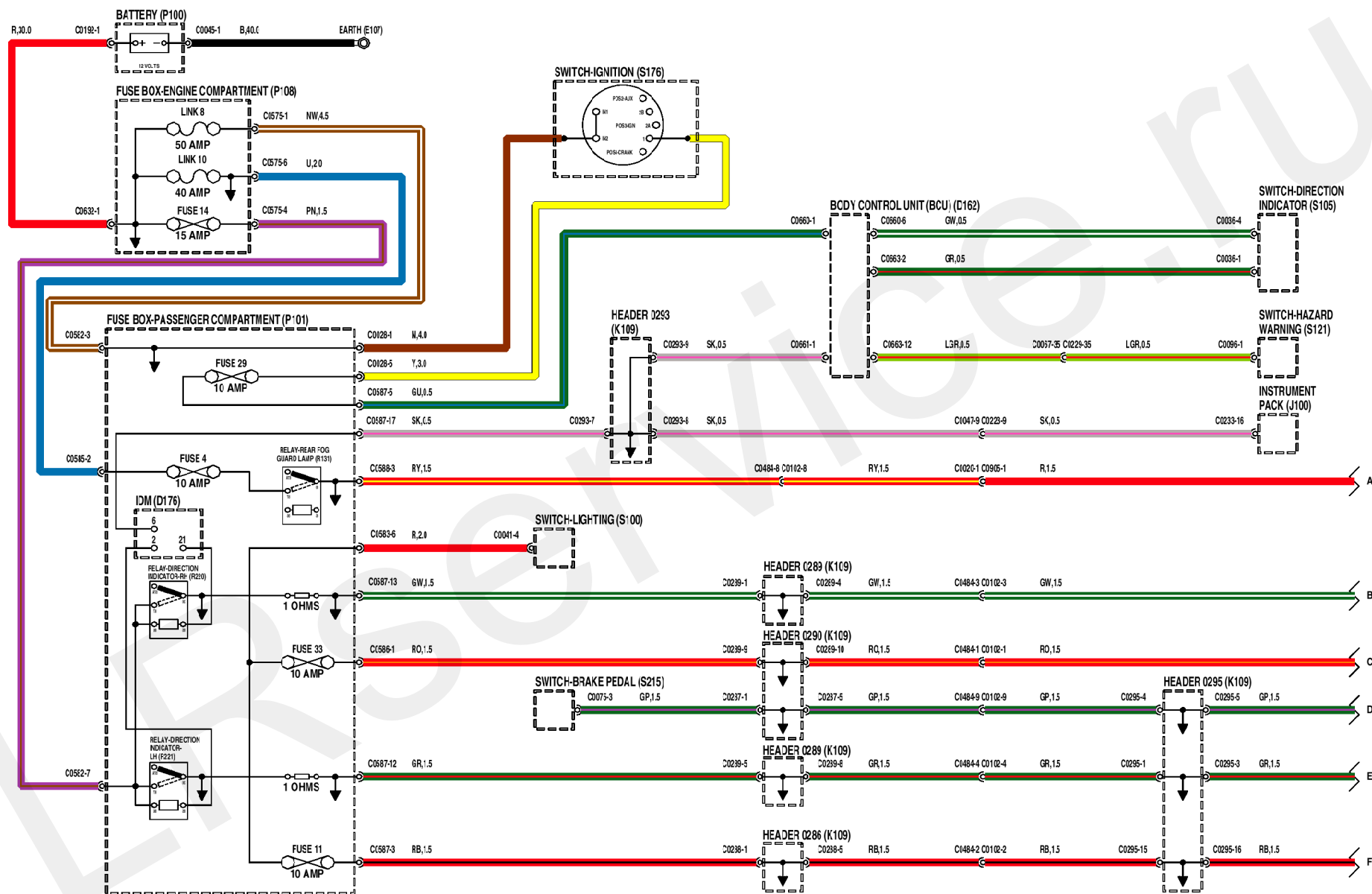
VWR122Z 0-A-sheet1a2

ACCESSORY SOCKET



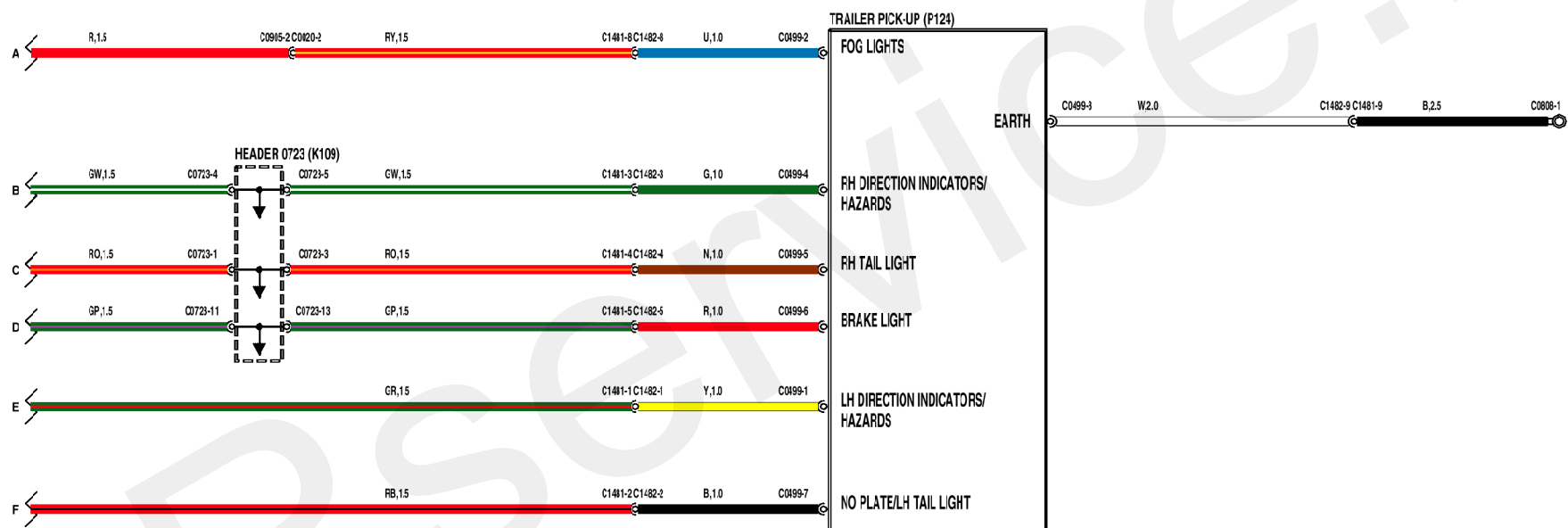
VWR1022 0-A-sheet2d2

TRAILER SOCKET



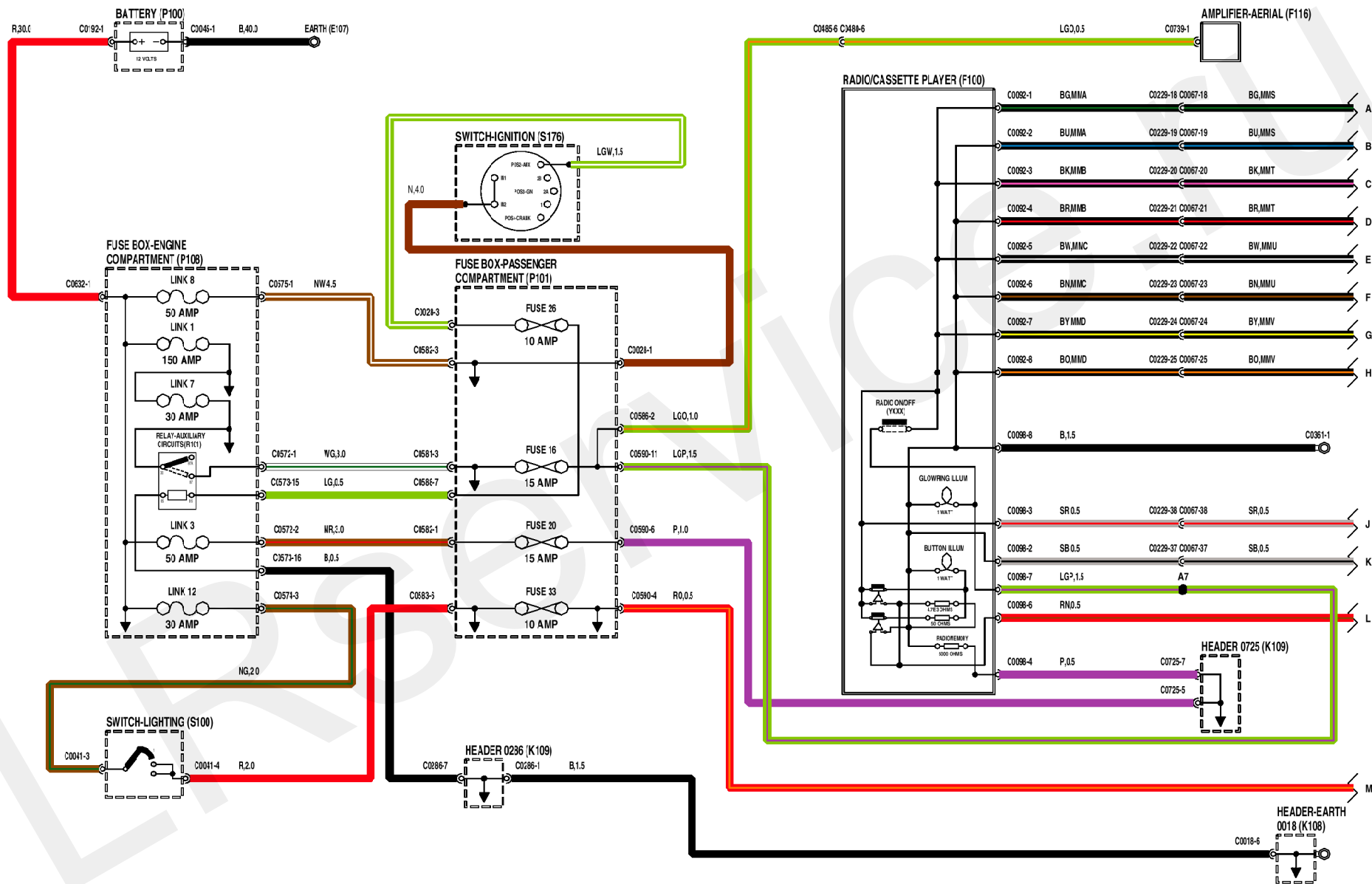
VWR125000-A-sheet1a2

TRAILER SOCKET



VWR125000-Asheet2d2

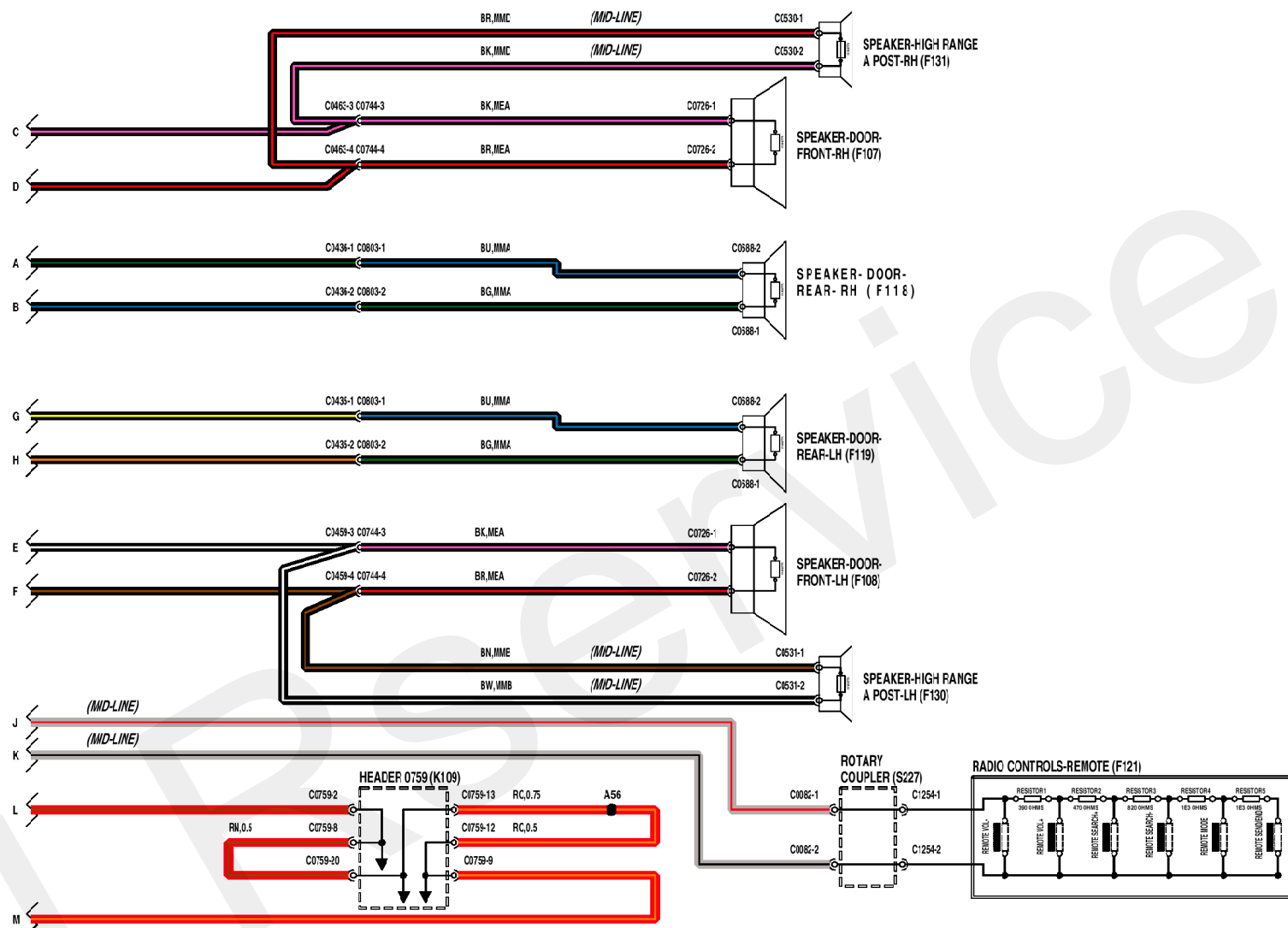
AUDIO SYSTEMS BASE AND MID LINE



VWR12000-A-sheet1d2

AUDIO SYSTEMS

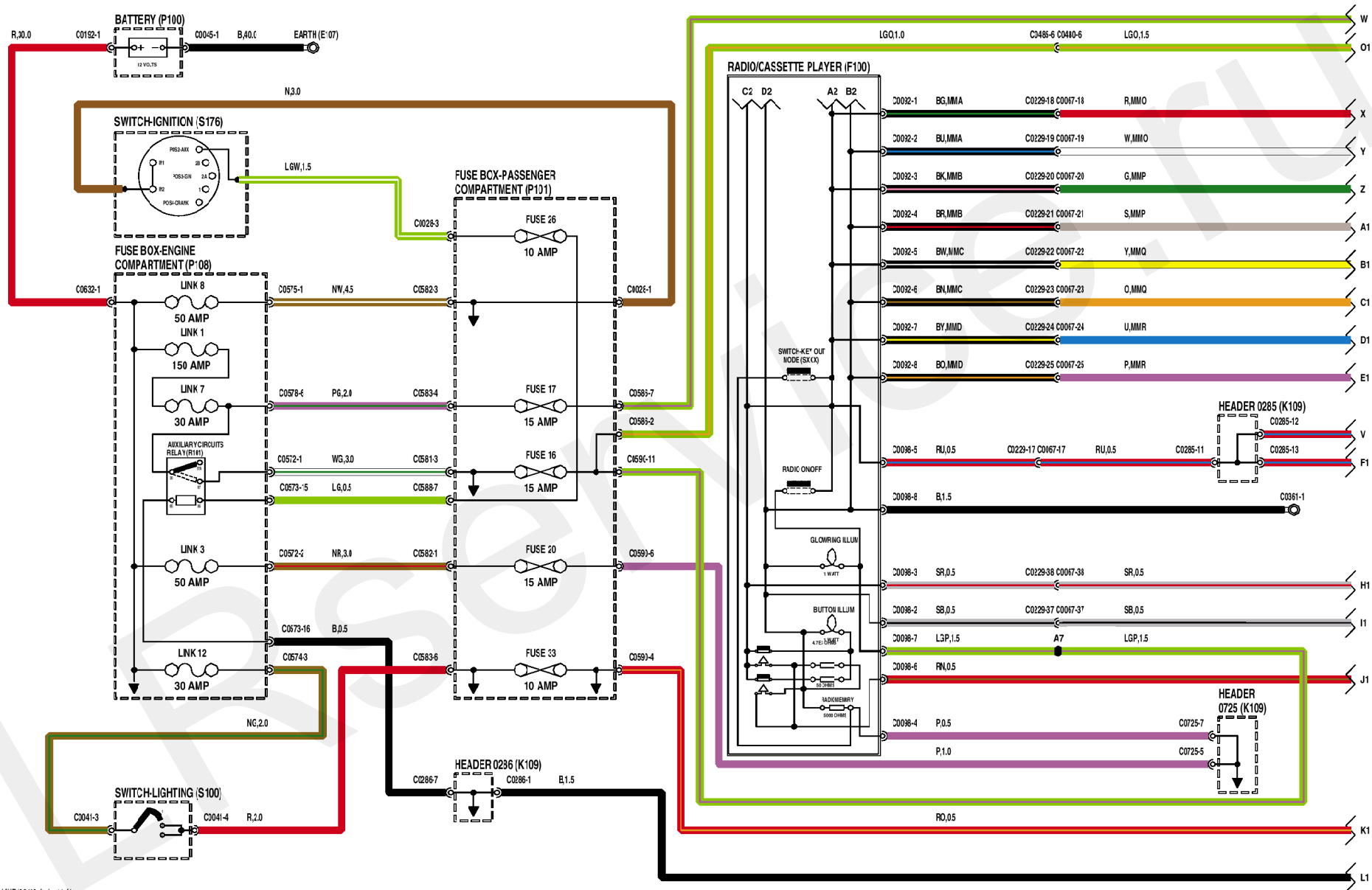
BASE AND MID LINE



VWR12000-Asheet2d2

AUDIO SYSTEMS

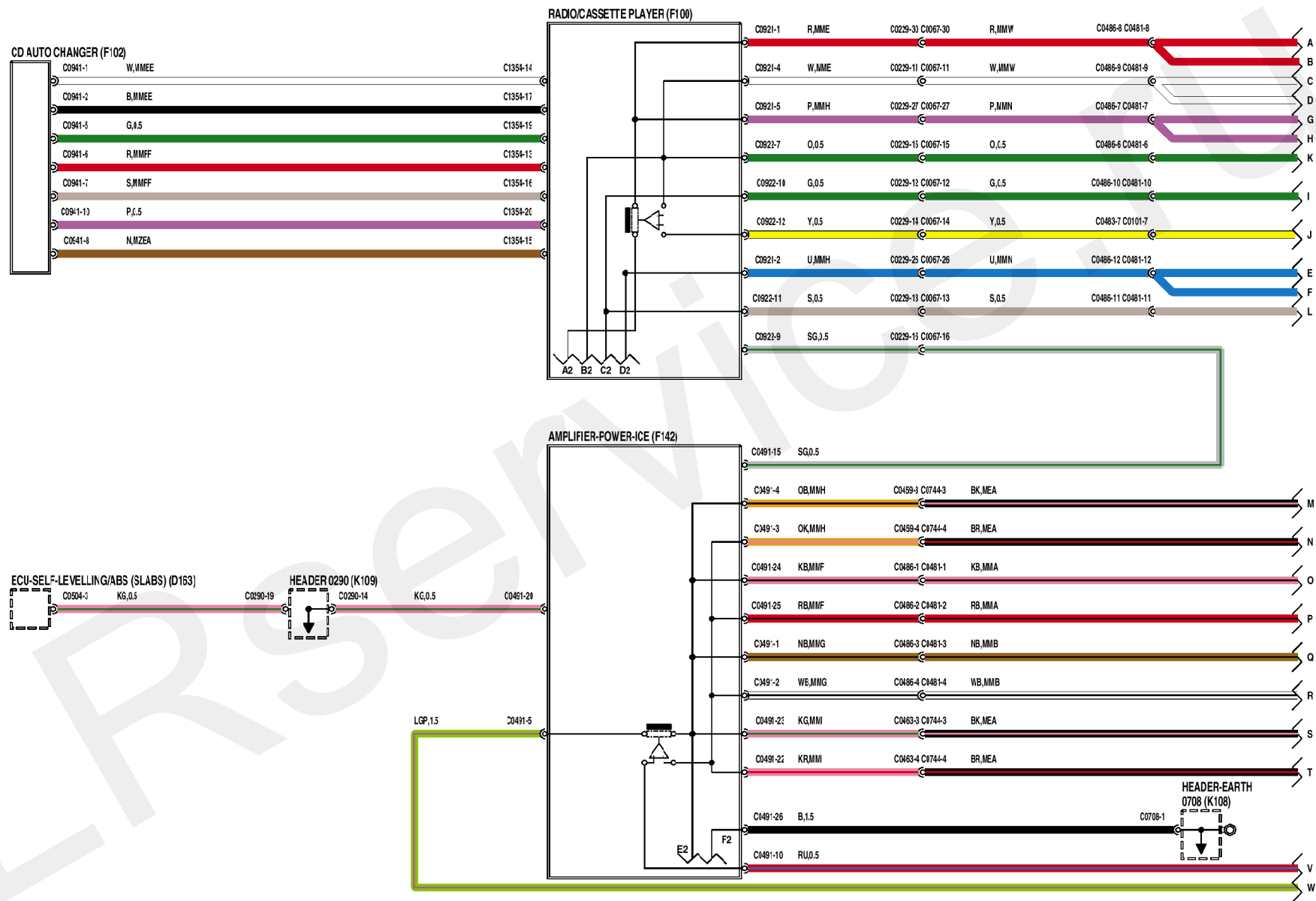
HIGH LINE - HARMAN AMPLIFIER



VWR108430-A-sheet1 of 4

AUDIO SYSTEMS

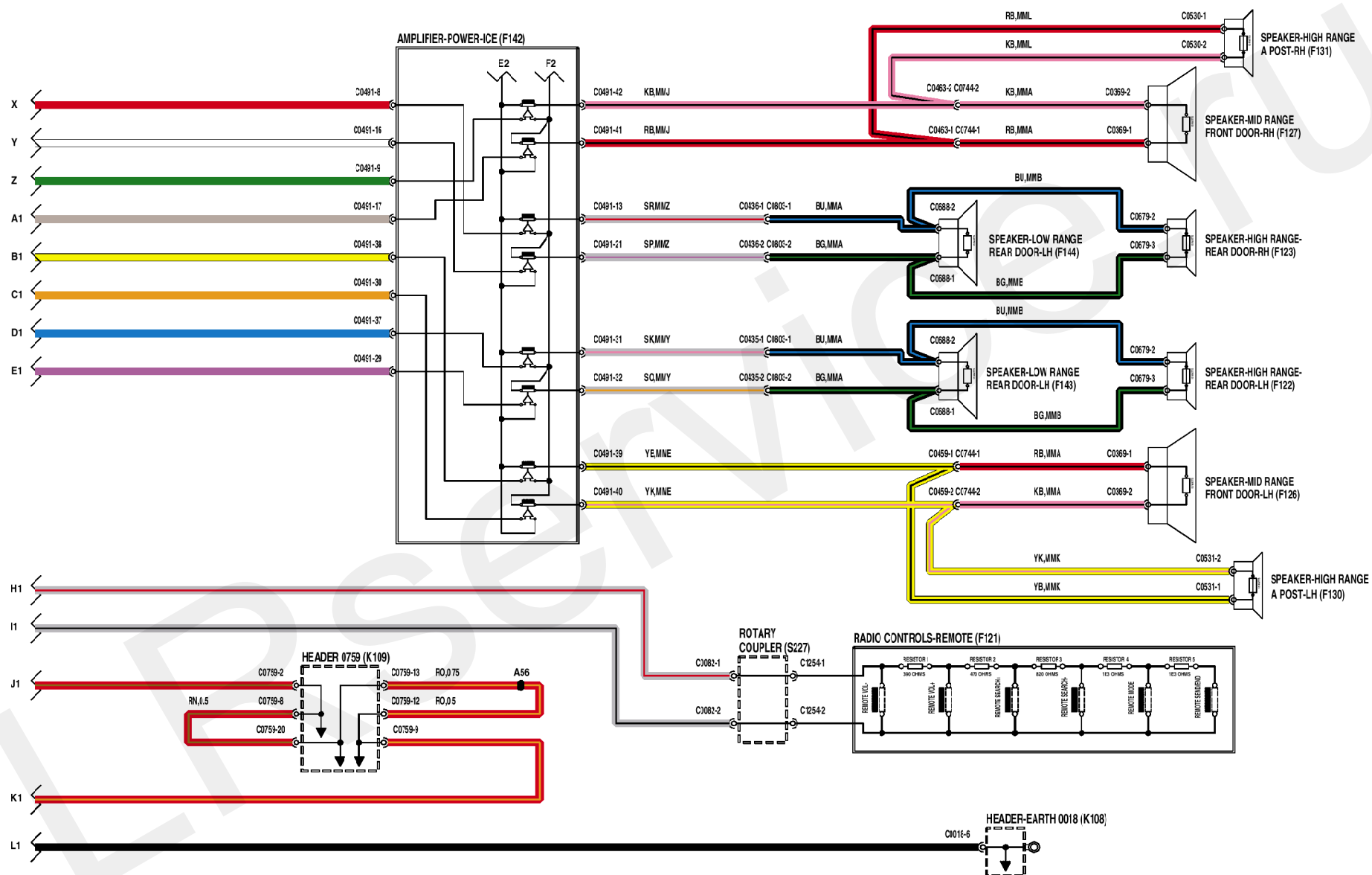
HIGH LINE - HARMAN AMPLIFIER



VWR108410-Asheet2d4

AUDIO SYSTEMS

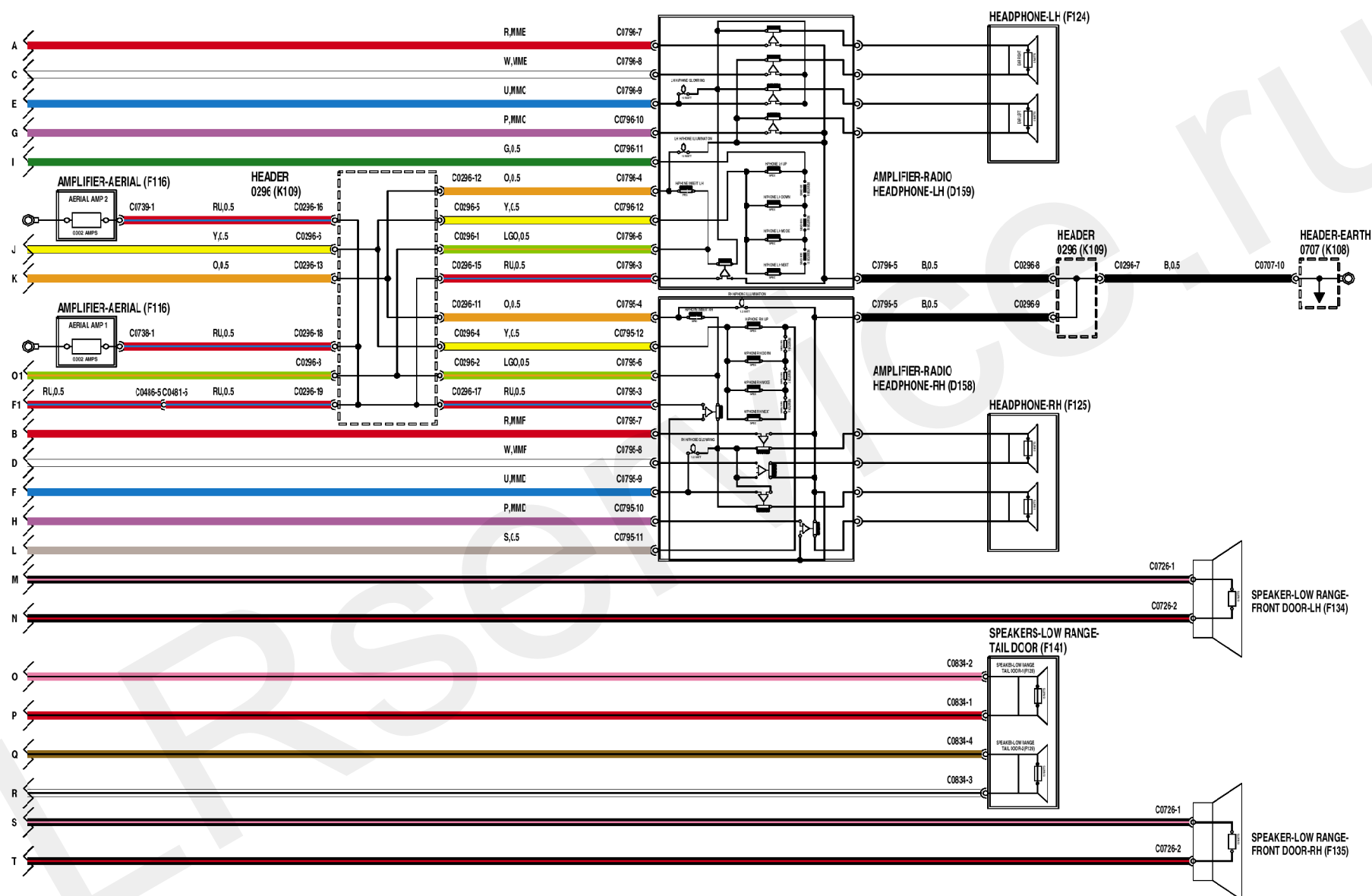
HIGH LINE - HARMAN AMPLIFIER



VWR108430-A-sheet3of4

AUDIO SYSTEMS

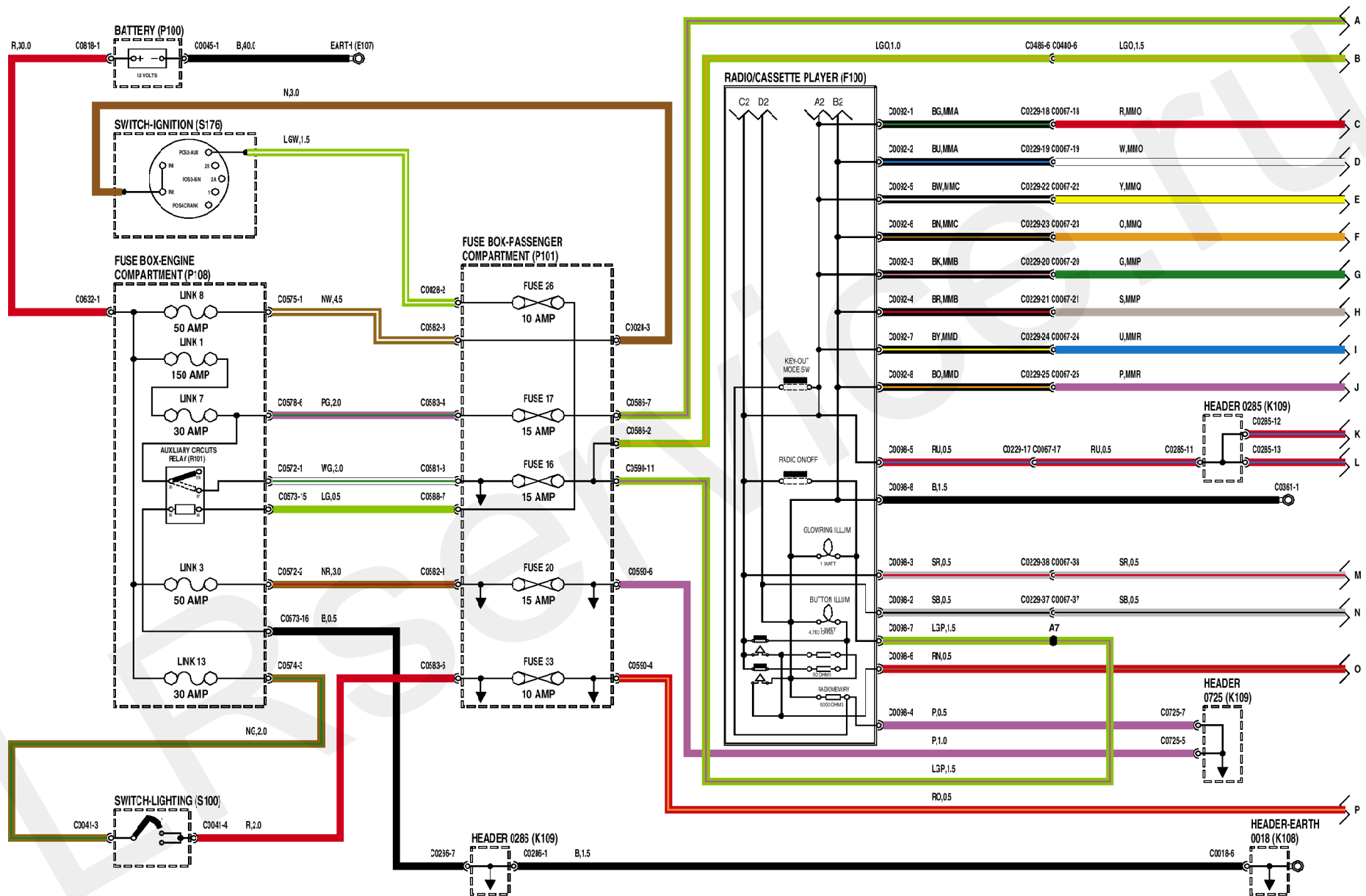
HIGH LINE - HARMAN AMPLIFIER



VWR108430-A-sheet4d4

AUDIO SYSTEMS

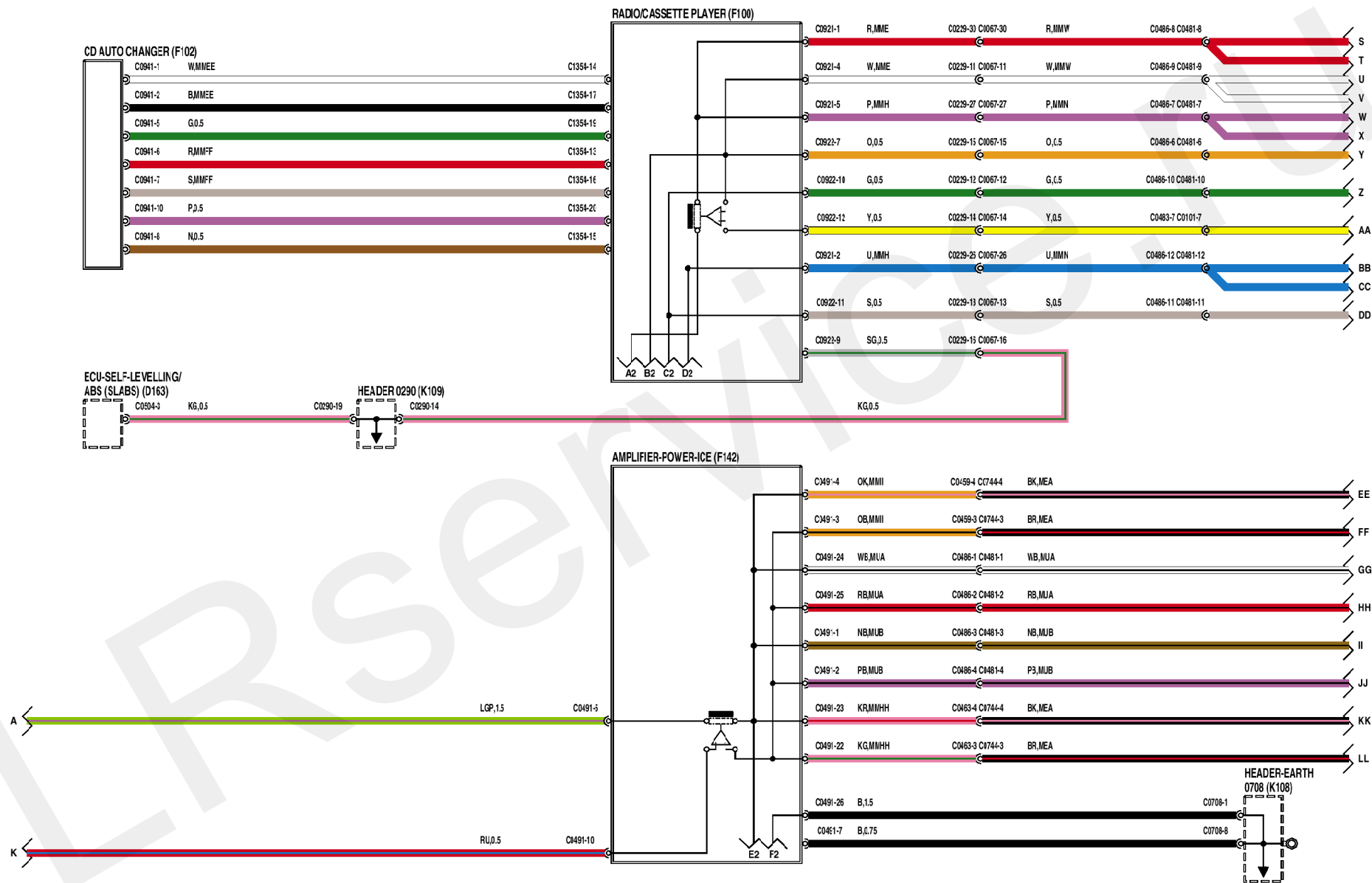
HIGH LINE - LEAR AMPLIFIER



VWIR04630-A01

AUDIO SYSTEMS

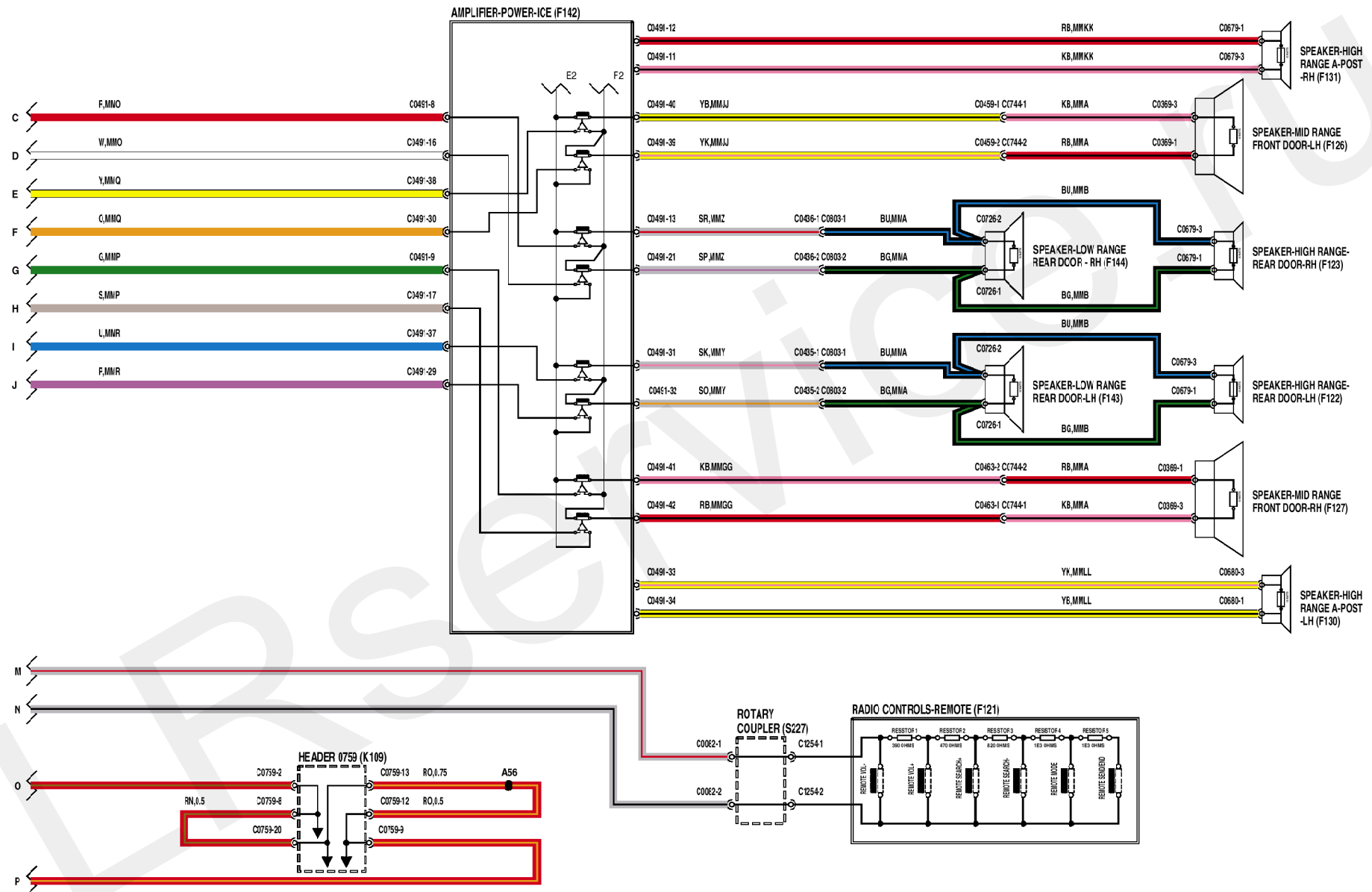
HIGH LINE - LEAR AMPLIFIER



VWR004630-A02

AUDIO SYSTEMS

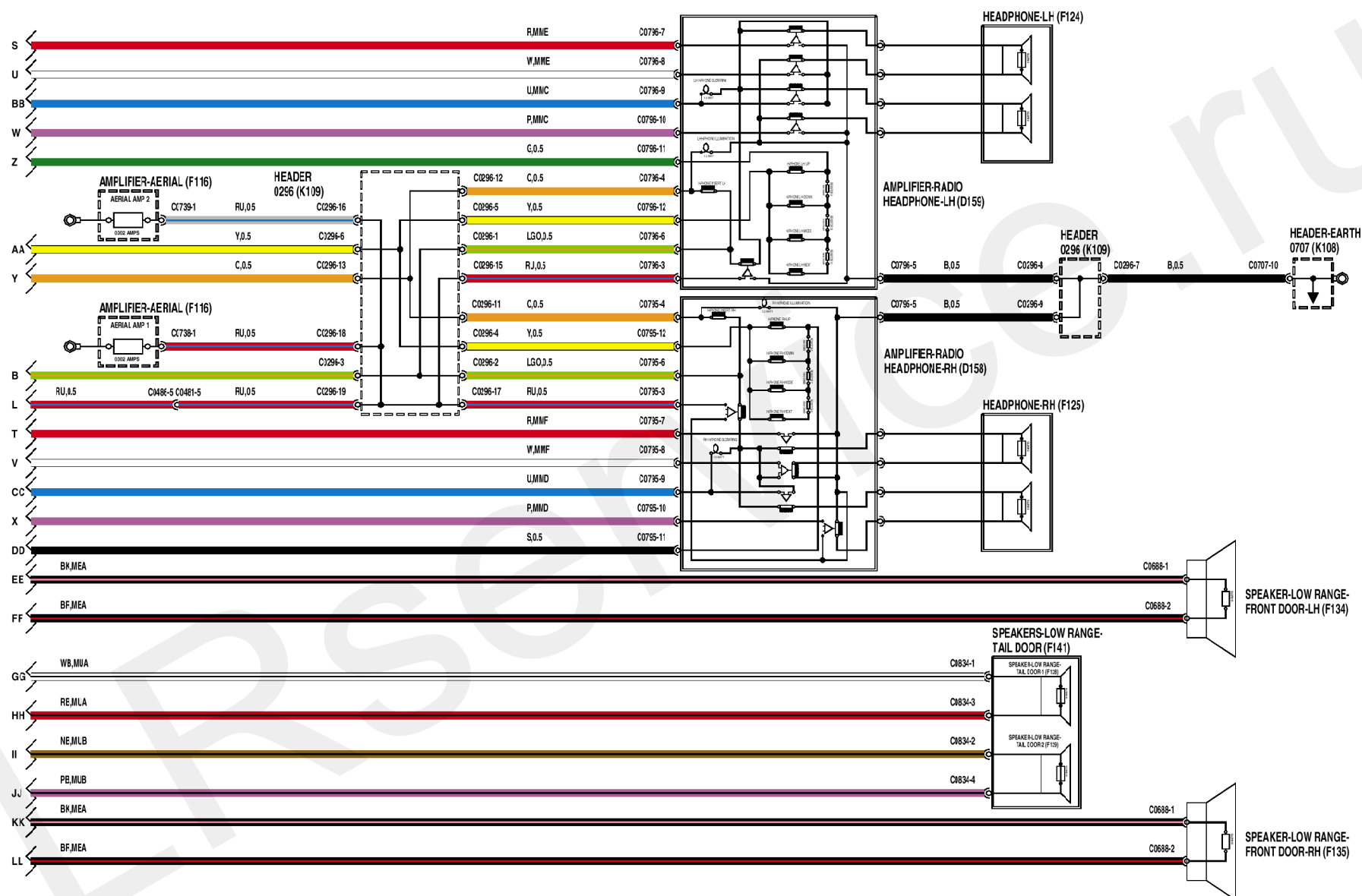
HIGH LINE - LEAR AMPLIFIER



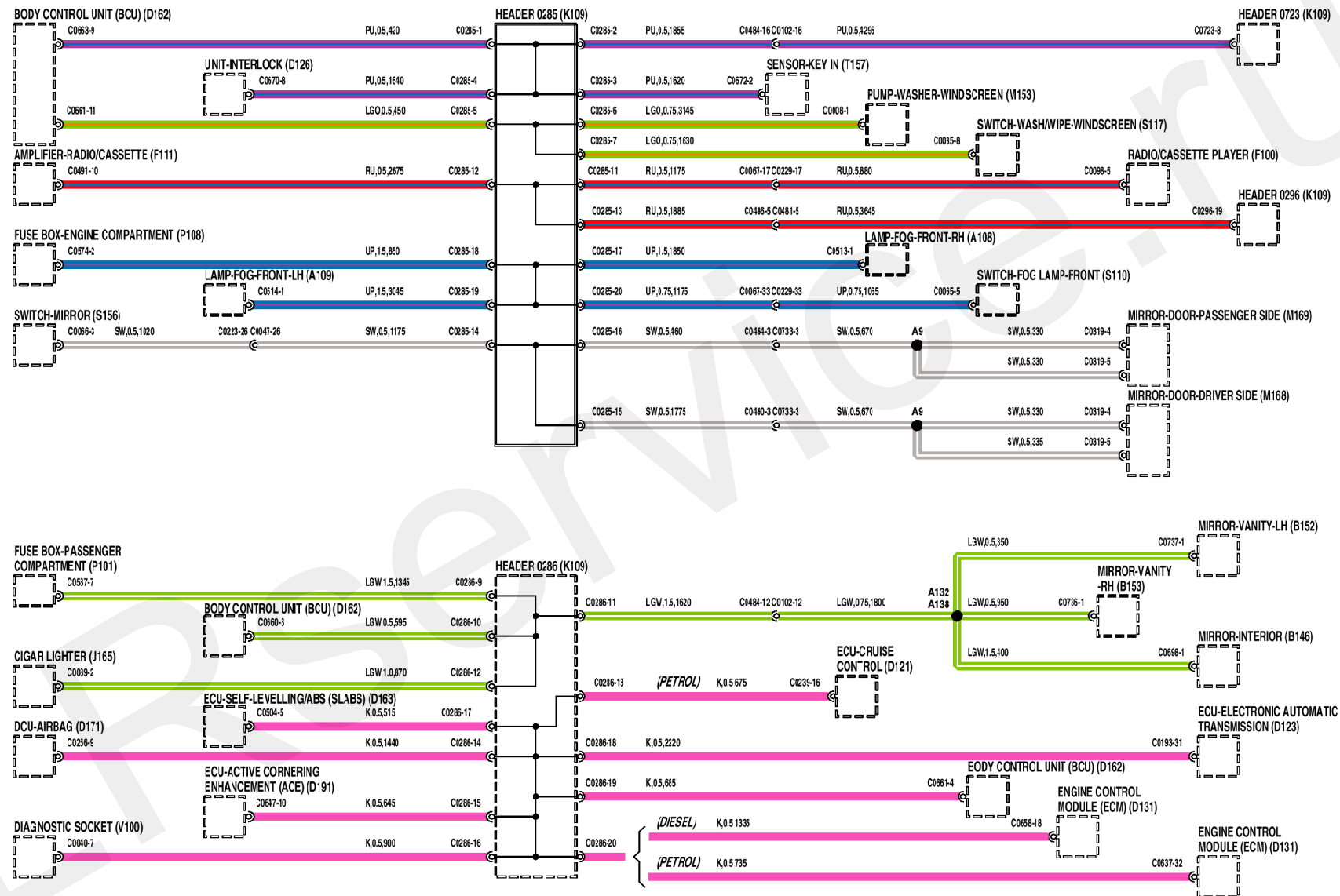
VWIR0463D-A03

AUDIO SYSTEMS

HIGH LINE - LEAR AMPLIFIER

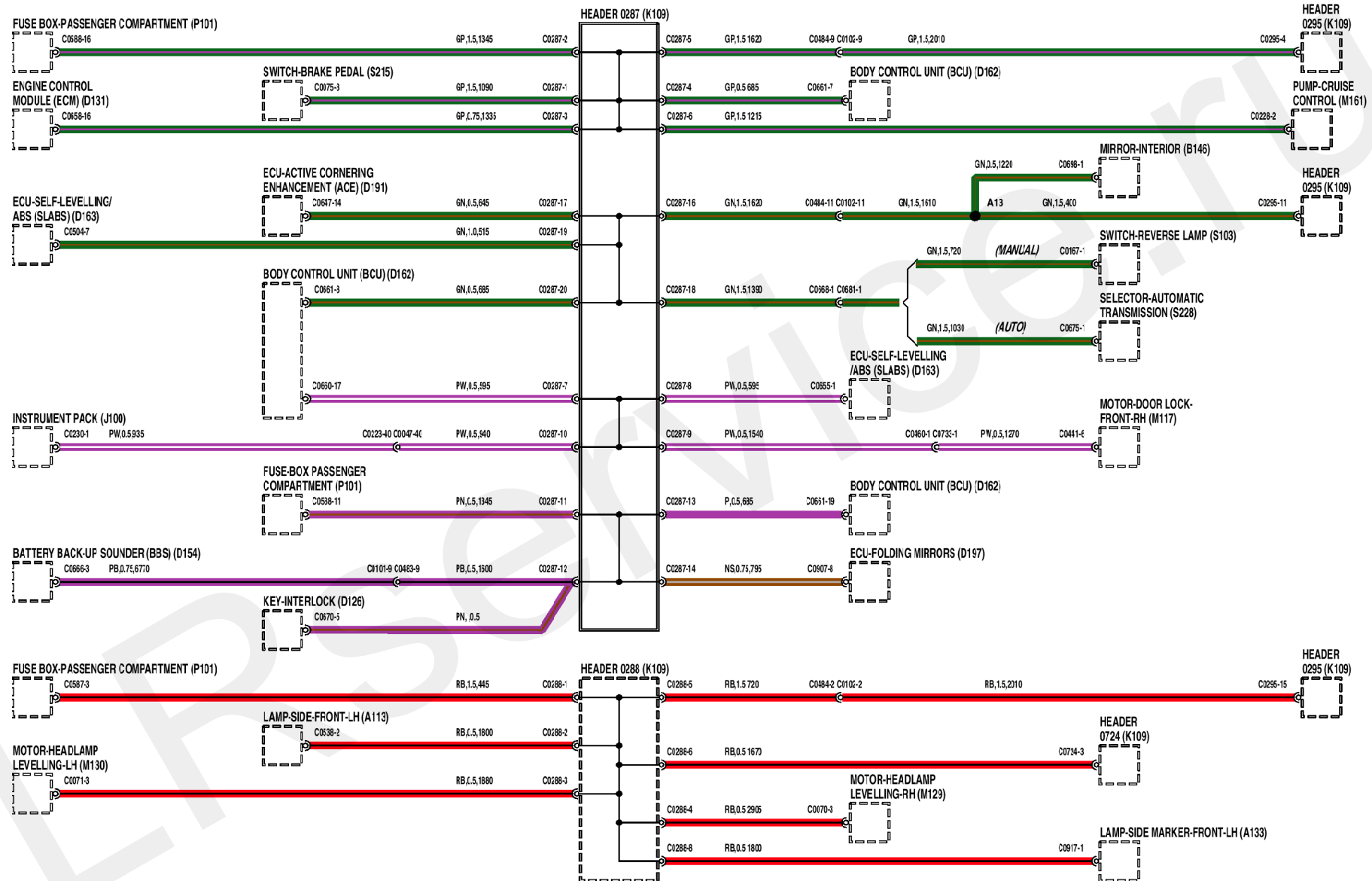


HEADER JOINTS



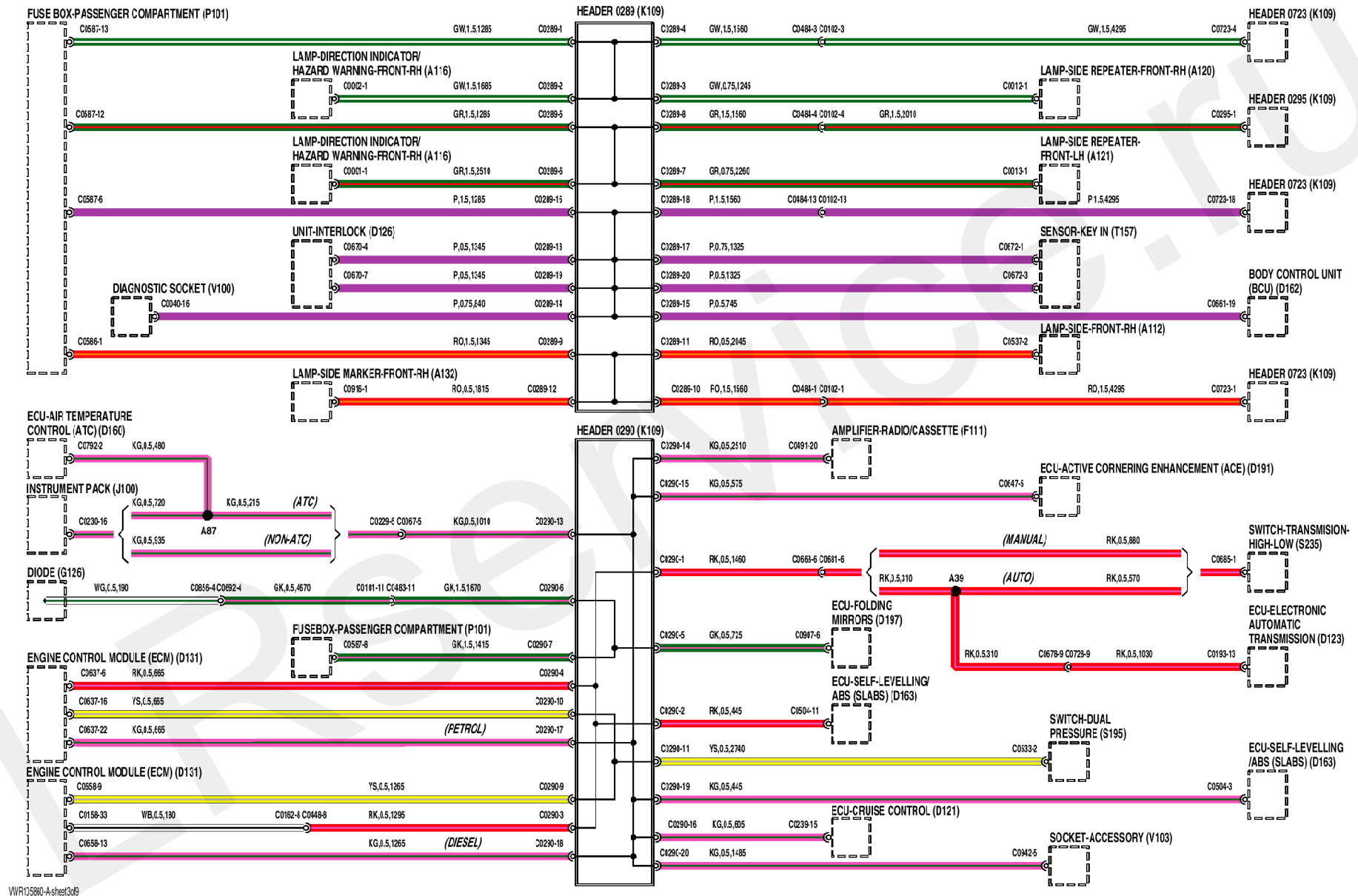
VWR175880-A-sheet1a9

HEADER JOINTS



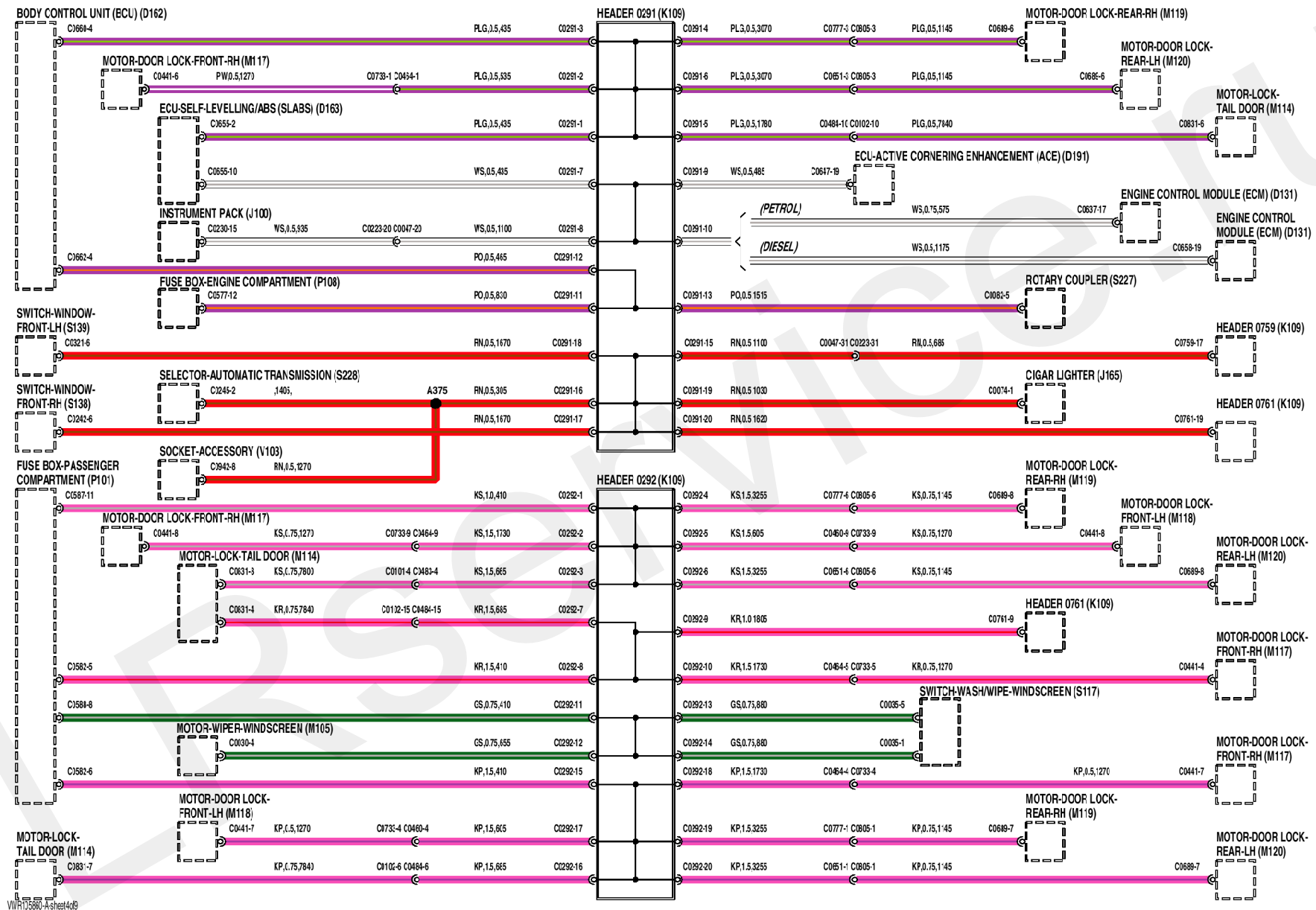
VWR105880-Asheet2d09

HEADER JOINTS

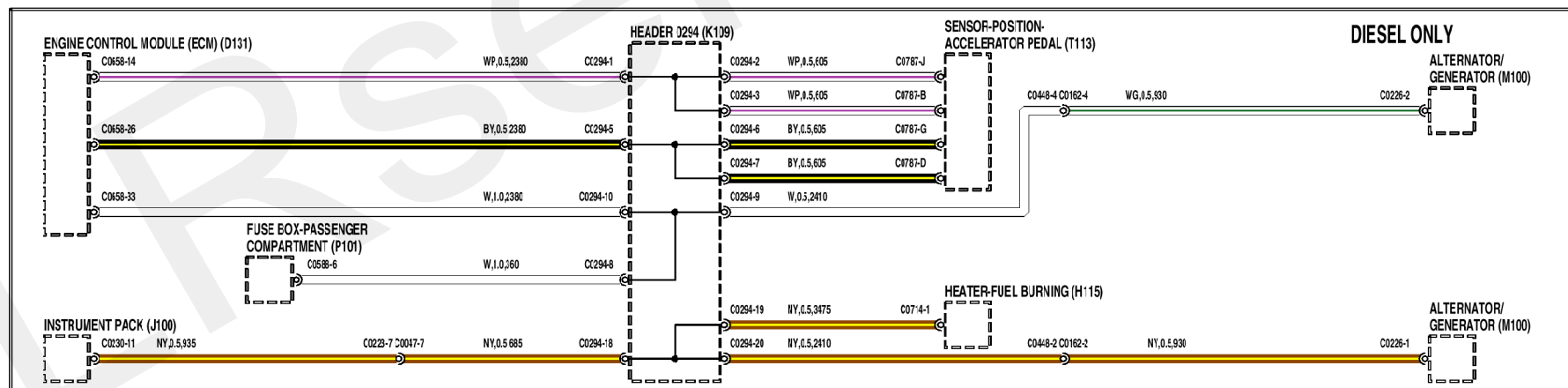
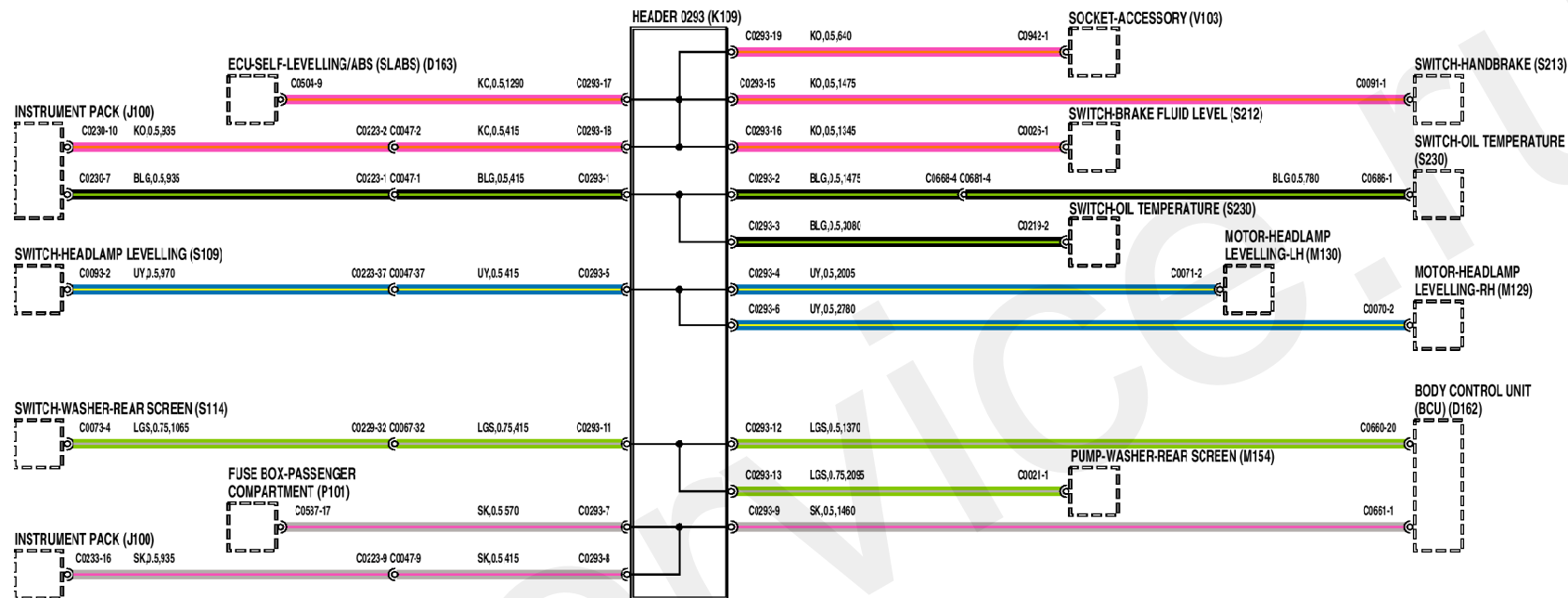


VWR105880-A-sheet3d9

HEADER JOINTS

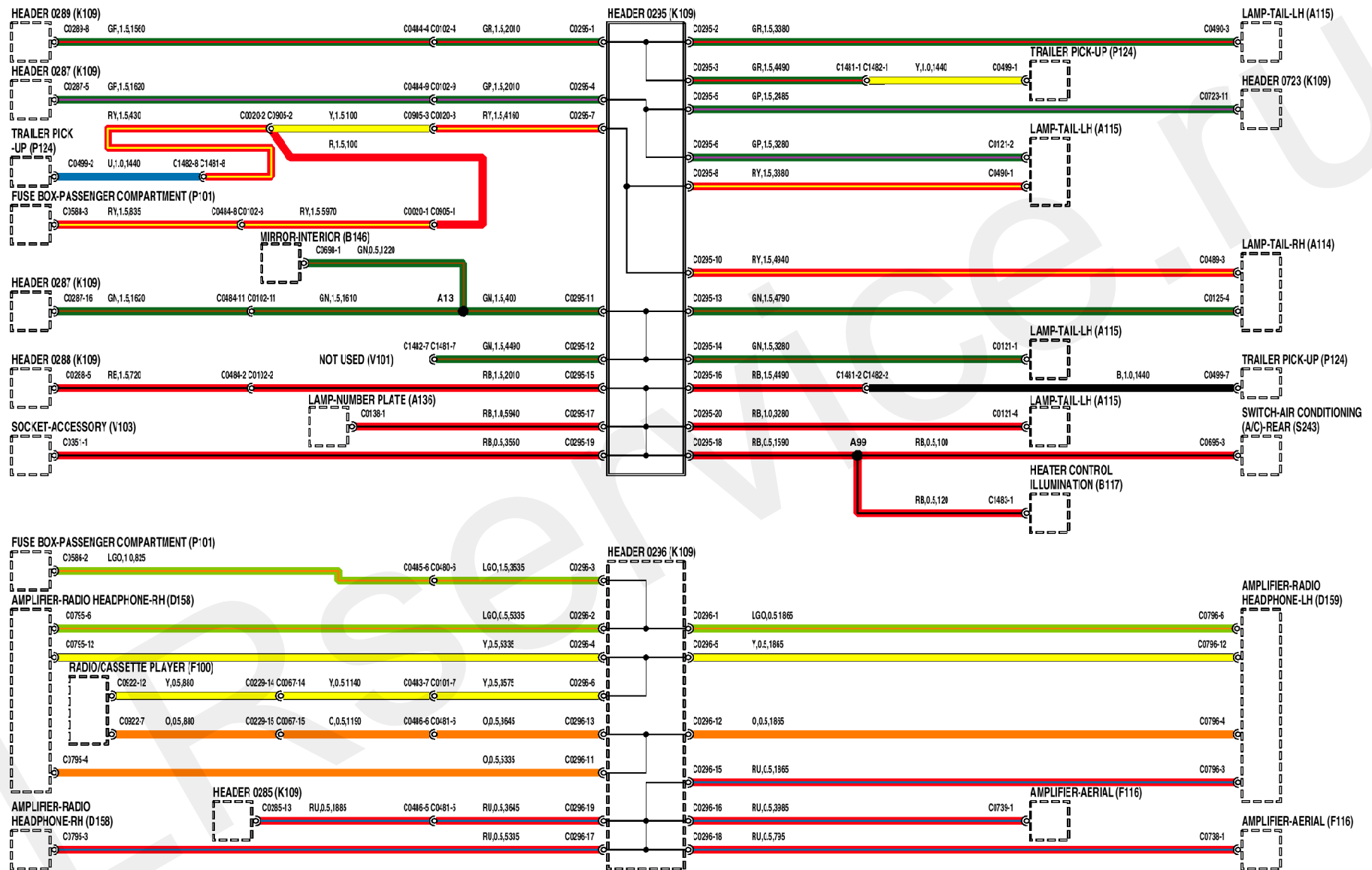


HEADER JOINTS



VWR105880-AsheetSol9

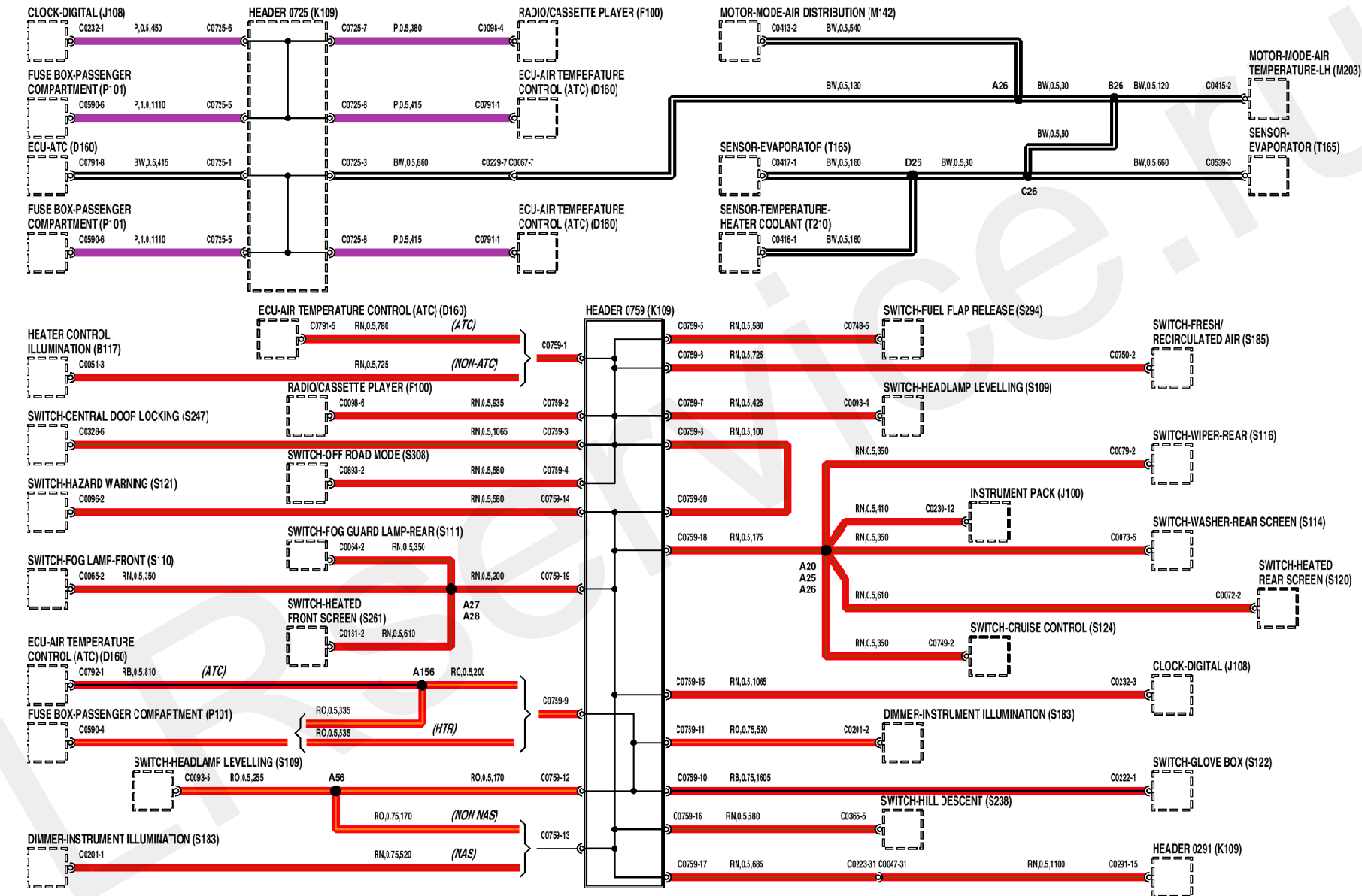
HEADER JOINTS



VWR105880-A-sheet6d9

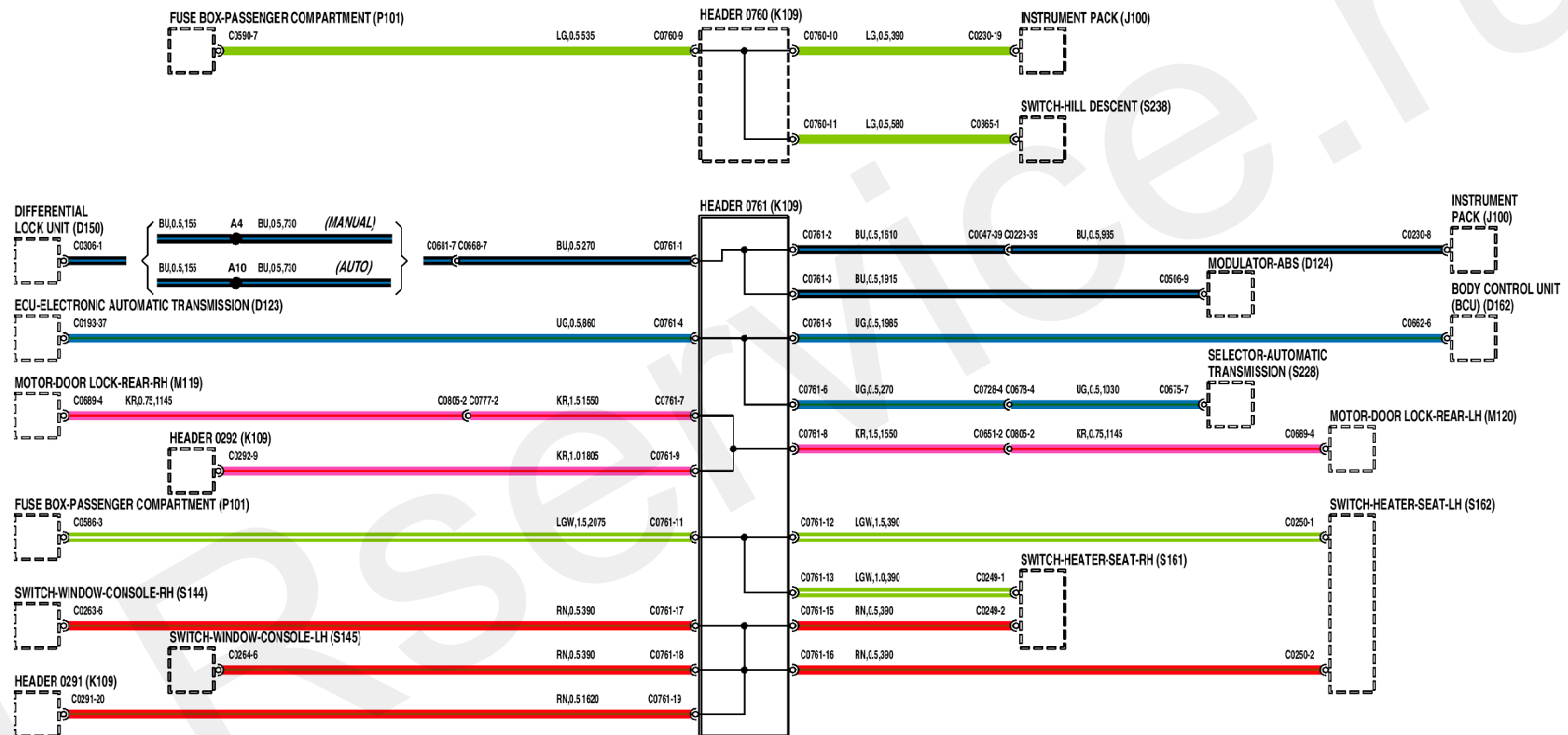


HEADER JOINTS



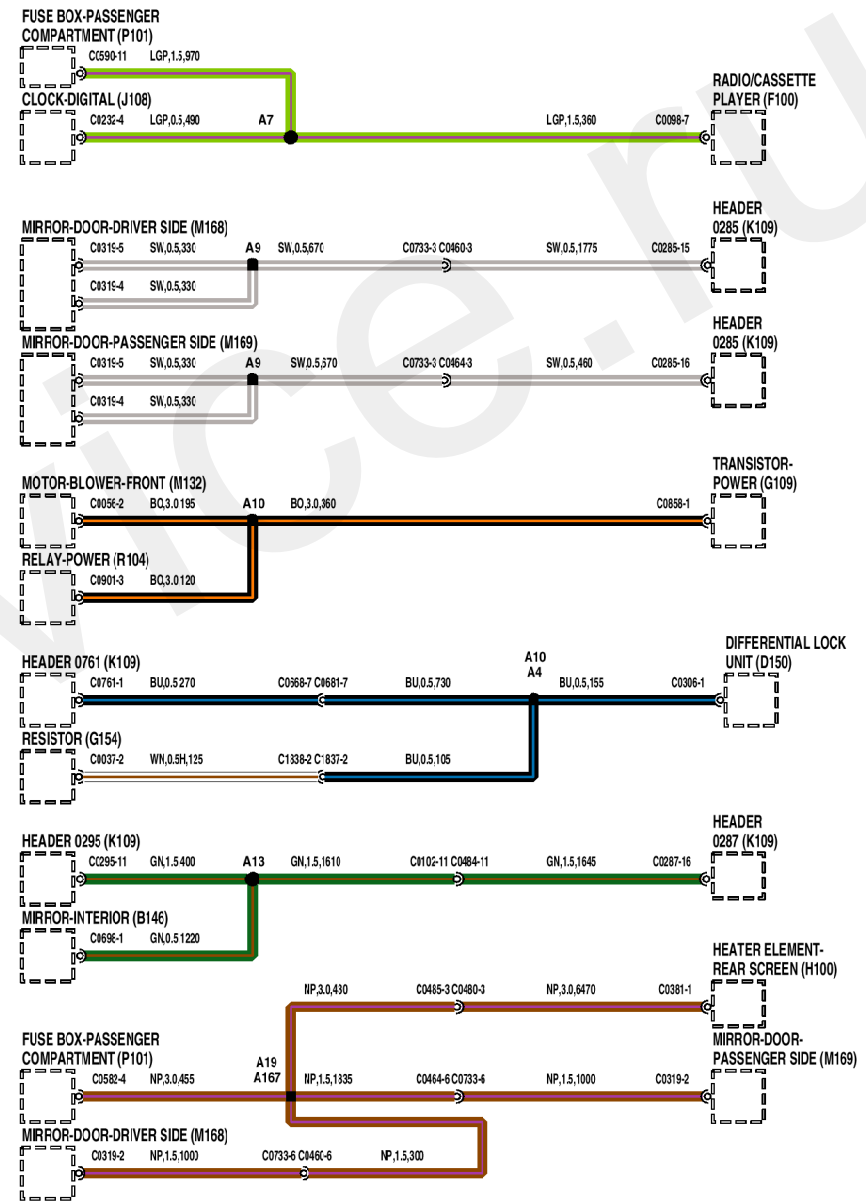
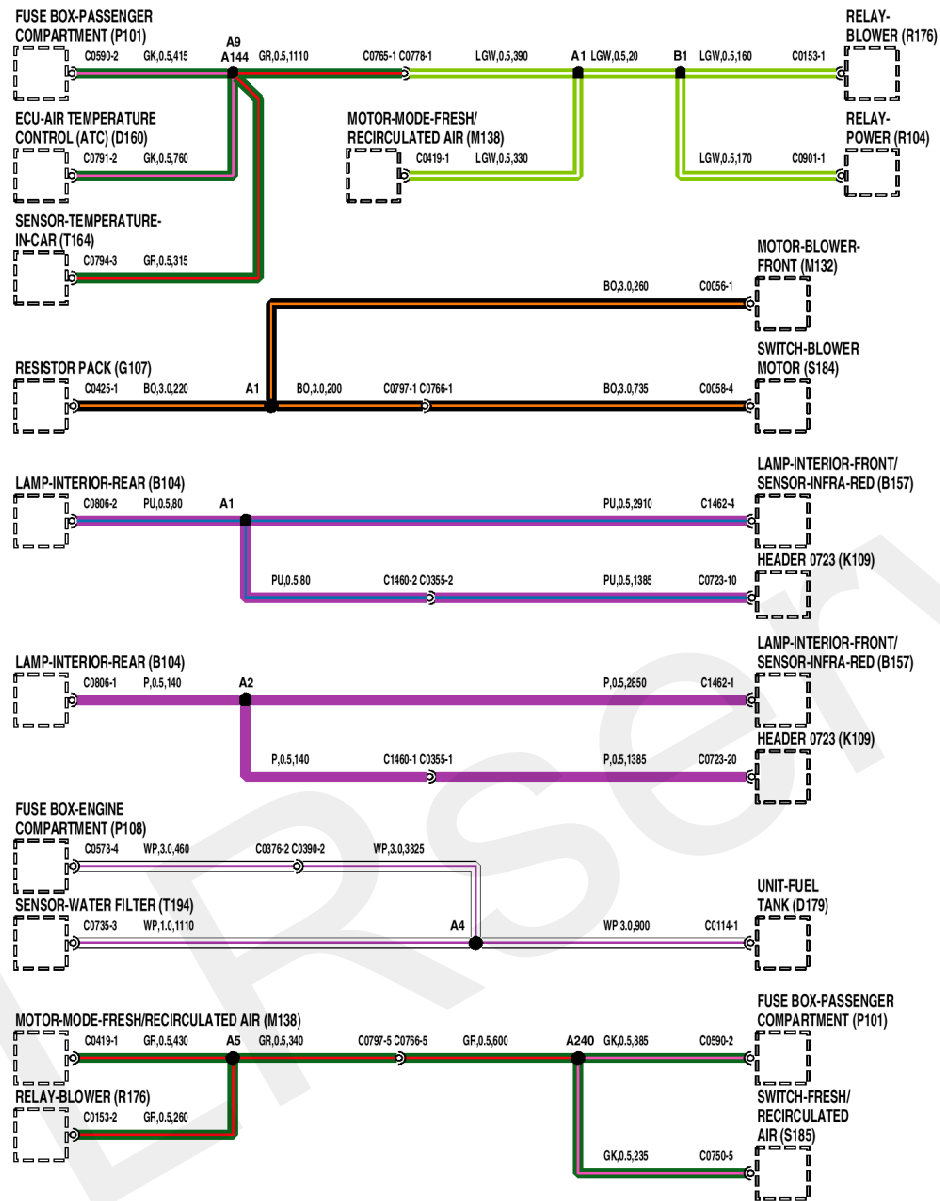
VWR175880-Asheet009

HEADER JOINTS

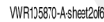


VWR175880-Asheet3d9

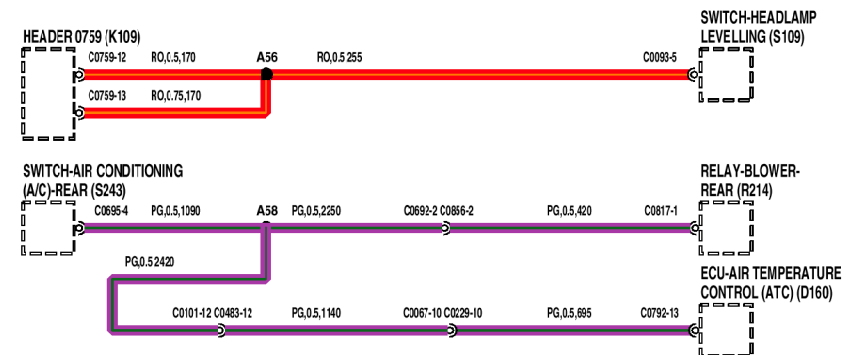
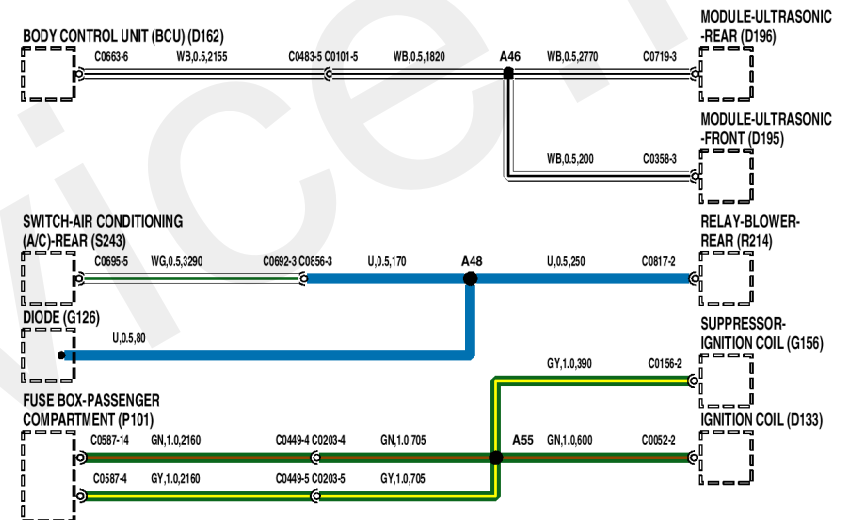
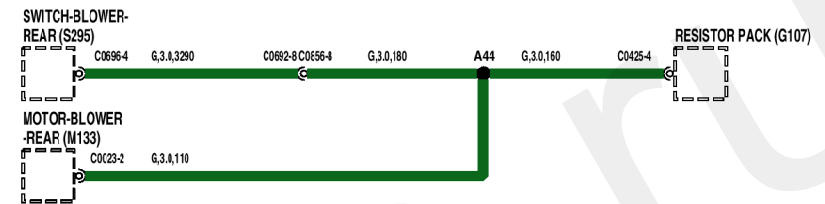
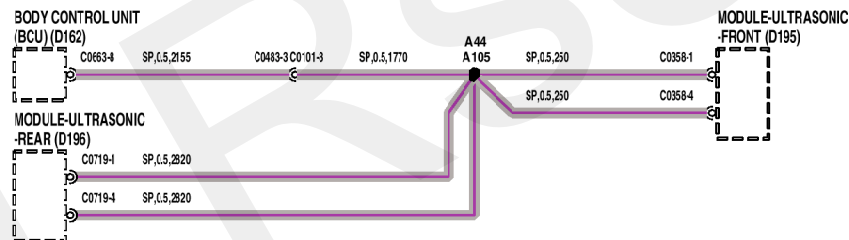
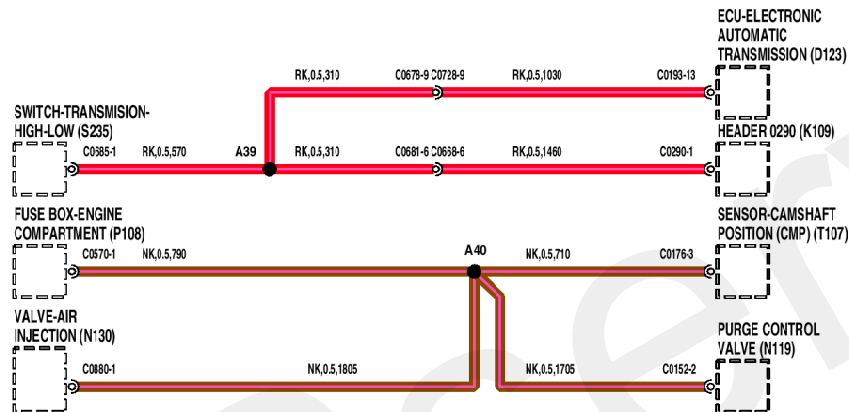
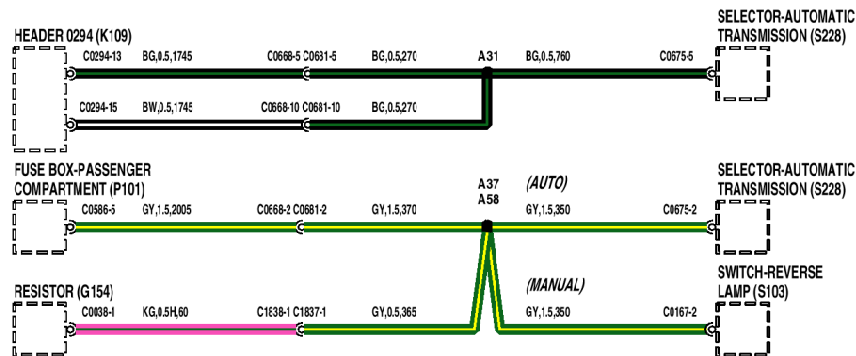
SPLICES AND CENTRE TAPS



DISCOVERY SERIES II 2000MY (LHD)

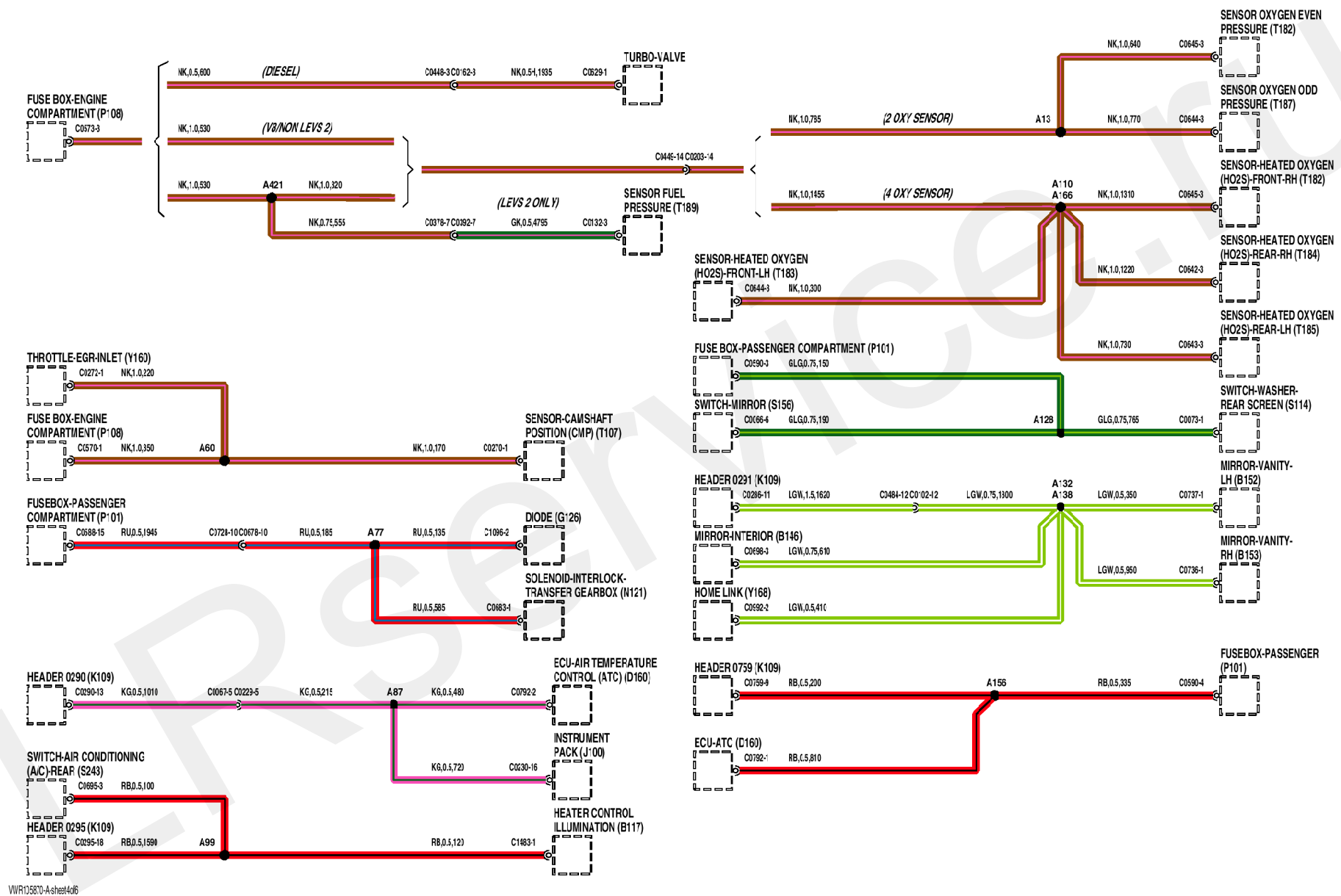


SPLICES AND CENTRE TAPS



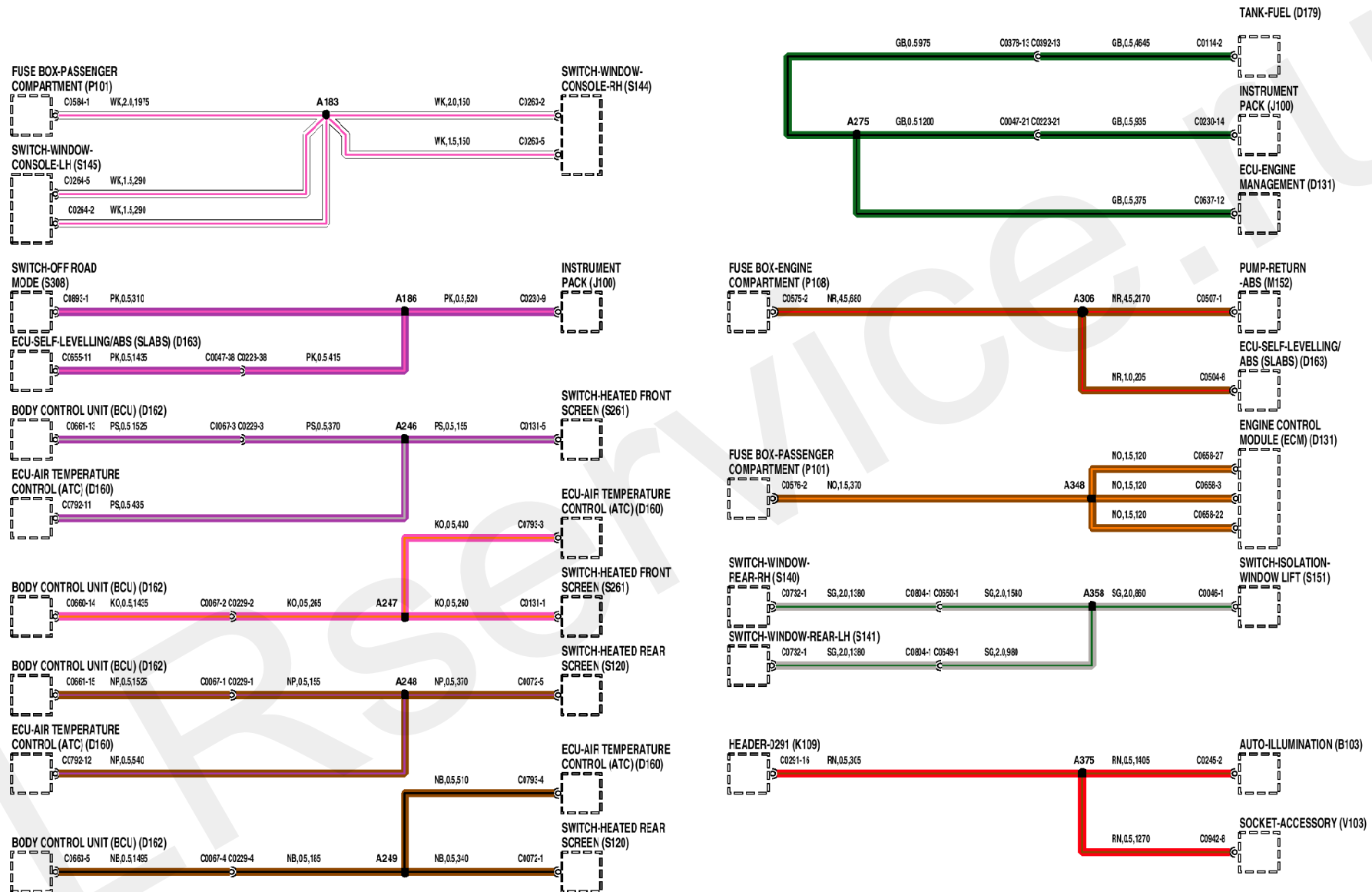
VWR103870-A-sheet3d6

SPLICES AND CENTRE TAPS



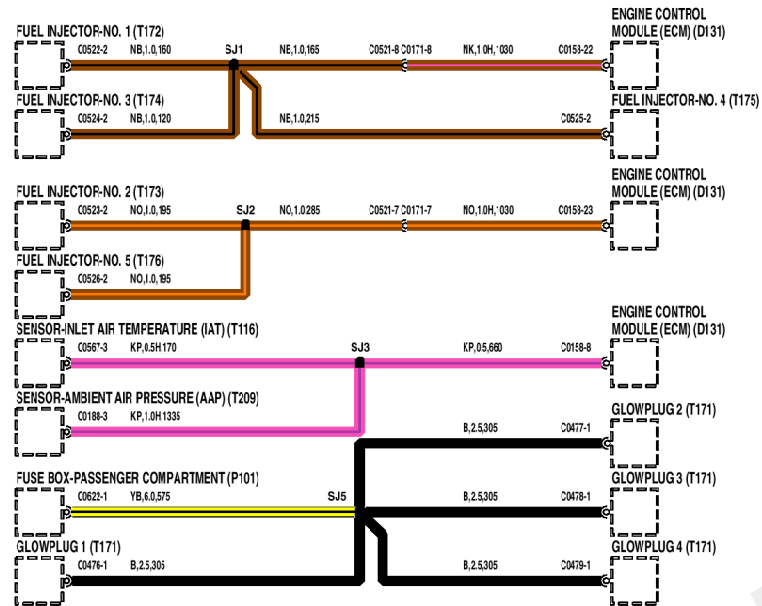
VWR103870-Asheet4d6

SPLICES AND CENTRE TAPS



VWR103870-AsheetSol6

SPLICES AND CENTRE TAPS



VWR175870-A-sheet6d6