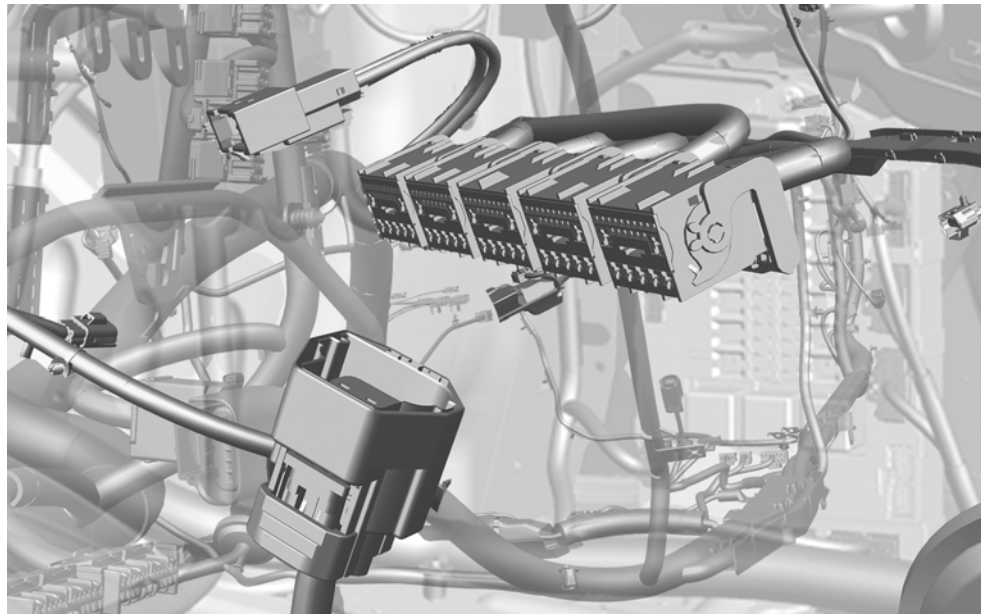




Electrical Wiring Diagrams



DEFENDER (LHD)

VIN: 760595 >
(1m)



Electrical Wiring Diagrams

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VIN: 760595 >
(1m)

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PREFACE

While every effort is made to ensure accuracy, design changes to the vehicle may be made in the period between the completion of this publication and the introduction of vehicles.

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CONTENTS

ABBREVIATIONS

.....	2
-------	---

USING THIS PUBLICATION

Health and safety	3
Using this publication	3
Section numbering	3
Circuit sheet numbering	3
Understanding the circuit diagrams	3

206-09 - ANTI-LOCK CONTROL

.....	5
-------	---

303-06 - STARTING SYSTEM

Starting and charging - D4	7
----------------------------------	---

303-14 - ELECTRONIC ENGINE CONTROLS

D4	9
----------	---

412-01 - CLIMATE CONTROL

.....	13
-------	----

412-02 - AUXILIARY CLIMATE CONTROL

Non air conditioning	15
Windshield heater	16
Rear window heater	17

413-00 - INSTRUMENT CLUSTER AND PANEL ILLUMINATION

.....	18
-------	----

413-01 - INSTRUMENT CLUSTER

.....	20
-------	----

413-06 - HORN

.....	23
-------	----

413-07 - CLOCK

.....	24
-------	----

414-01 - BATTERY, MOUNTING AND CABLES

Battery junction box	25
Header joints	31
Splices	36
Ground distribution	44

415-00 - INFORMATION AND ENTERTAINMENT SYSTEM

.....	50
-------	----

417-01 - EXTERIOR LIGHTING

Headlamp levelling	51
Head/Side lamps	52
Turn signal indicators and hazard flashers	55
Stop and reverse lamps	58
Rear fog guard lamps	61
Trailer socket	63

417-02 - INTERIOR LIGHTING

.....	65
-------	----

418-00 - MODULE COMMUNICATIONS NETWORK

Diagnostic socket	67
-------------------------	----

419-01 - ANTI-THEFT SYSTEM

Passive	68
Active	69

501-10 - SEATING

Heated - front	72
----------------------	----

501-11 - GLASS, FRAMES AND MECHANISMS

Window lift	73
-------------------	----

501-12 - INSTRUMENT PANEL AND CONSOLE

Cigar lighter	74
Accessory socket(s)	75

501-16 - WIPERS AND WASHERS

Front	76
Rear	78

ABBREVIATIONS

Abbreviation	Description
ABS	Anti-lock braking system
ADRC	Adaptive damping
AFS	Adaptive front lighting system
AUTO	Automatic transmission
CAN	Controller area network
DAB	Digital audio broadcasting
DSC	Dynamic stability control
D4	Diesel engine - Straight-four
DV6	Diesel engine - V6
DV8	Diesel engine - V8
EGR	Exhaust gas recirculation
FBH	Fuel burning heater
FET	Field effect transistor
GPS	Global positioning system
HS CAN	High speed controller area network bus
IC	Instrument cluster
IP	Instrument panel
PV6	Petrol engine - V6
PV8	Petrol engine - V8
PV8NA	Naturally aspirated engine - V8
PV8SC	Super charged engine - V8
LH	Left-hand
LIN	Local interconnect network
MAF/IAT	Mass air flow / intake air temperature
IBOC	In band on channel
MS CAN	Medium speed controller area network bus
NAS	North American specification
PDC	Park distance control
RH	Right-hand
SAI	Secondary air injection
SCL	Steering column locking
SDARS	Satellite digital audio receiver system
TCM	Traction control module
TPMS	Tire pressure monitoring system

Abbreviation	Description
TSD	Touch screen display
ULEV	Ultra low emission vehicle
USB	Universal serial bus
VICS	Vehicle information control system

USING THIS PUBLICATION

Health and safety

Always follow health and safety guidelines, specifically those detailed in the Workshop Manual.

Using this publication

The information provided in this publication is for use only by competent, qualified auto-electricians. Good product knowledge is assumed, as well as the ability to access and use recommended test equipment and other reference material provided.

Test equipment and other reference material

The information in this publication should be used in conjunction with the recommended test equipment; refer to Workshop Manual. Other reference material includes: Technical Service Bulletins (TSB) and the Workshop Manual.

The Electrical Reference Library (ERL) may also prove useful since it provides detailed connector information.

Battery disconnection and reconnection

It is imperative that any information relating to battery disconnection and reconnection is followed; refer to the appropriate sections in the Workshop Manual.

Fault Diagnosis

Always use the recommended test equipment for correct and reliable fault diagnosis, refer to the Workshop Manual.

Harness Repair

Repairs should only be undertaken for connectors where a Service Repair Kit is available; refer to the appropriate Electrical Reference Library (ERL).

Note: Fibre Optic circuits cannot be repaired; refer to the Workshop Manual.

Section numbering

The sections in this publication are ordered to match the Global Outline numbering system as found in the current Workshop Manual. The Power and Ground distribution circuits can be found under section 414-01, BATTERY, MOUNTING AND CABLES.

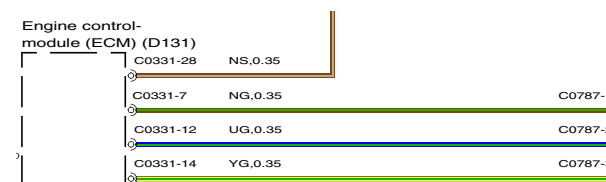
Note: Where circuit diagrams show more than one sub-system, the circuit will be located in the section that carries the first-named sub-system, for example: Starting and Charging will be located under section 303-06 Starting System, since 'Starting' is the first-named sub-system.

Circuit sheet numbering

The figures in brackets to the left of the page number indicate a circuit sheet number and the total number of sheets per circuit, for example (01 / 05) represents sheet 1 of 5.

Understanding the circuit diagrams

Components



After each component description, a translation code is displayed in brackets, for example: Starter relay (R102), Engine control-module (ECM)(D131). The codes can be ignored.

Note: A dotted outline indicates that the component identified is not shown in its entirety.

Connectors

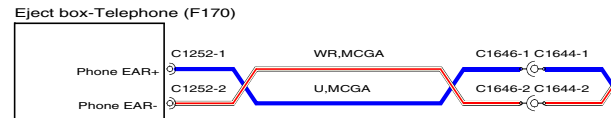
Connectors and header joints are identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C0292-1 identifies connector 292, pin number 1. Wire insulation colours are listed in a table at the end of this section. Where wires have a predominant colour with a secondary colour tracer, the main colour is identified first, i.e. WH-BK - white with a black tracer.

Wire length (Power and Ground Distribution only)

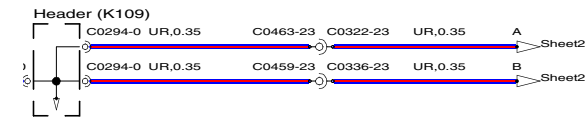
The wire length (in millimetres) is displayed after the colour and cross sectional area; for example, SR,0.35,480. In this example, the figure, 480 indicates the approximate position of the harness splice is 480mm from connector C2335.

USING THIS PUBLICATION

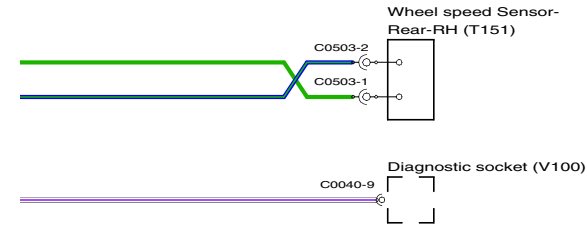
Line Types



Crossed wires as illustrated above show an example of how a twisted pair of wires may be represented on the circuits.



The arrows illustrated above show an example of the page break symbols, identifying that the circuit continues at the corresponding letter on the sheet number indicated.



The cup and ball symbol represents the male and female halves of connector. Most connectors plug directly into a component but some are wired directly to the component using a 'flylead' as with C0503 above.

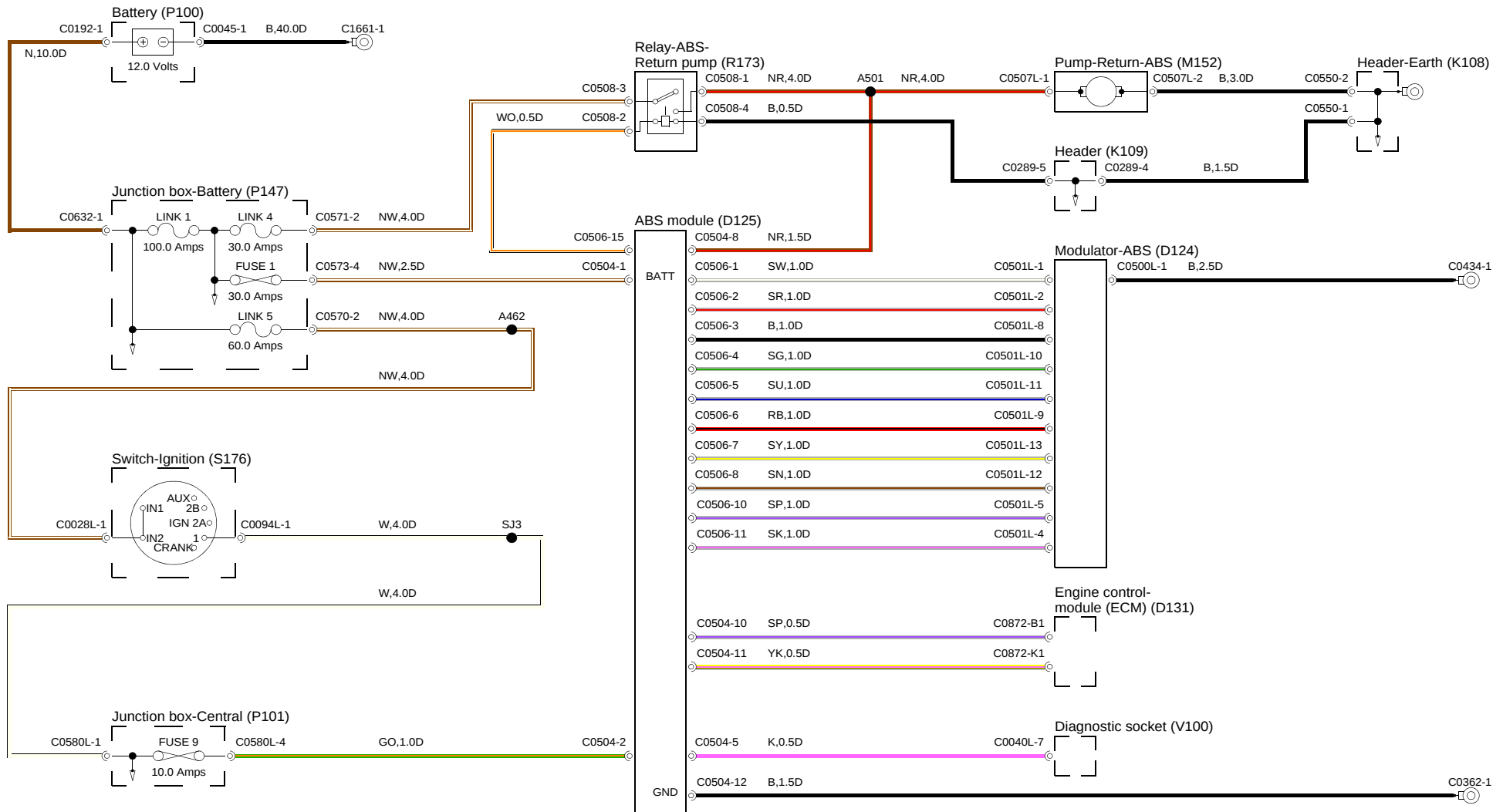
Ground points

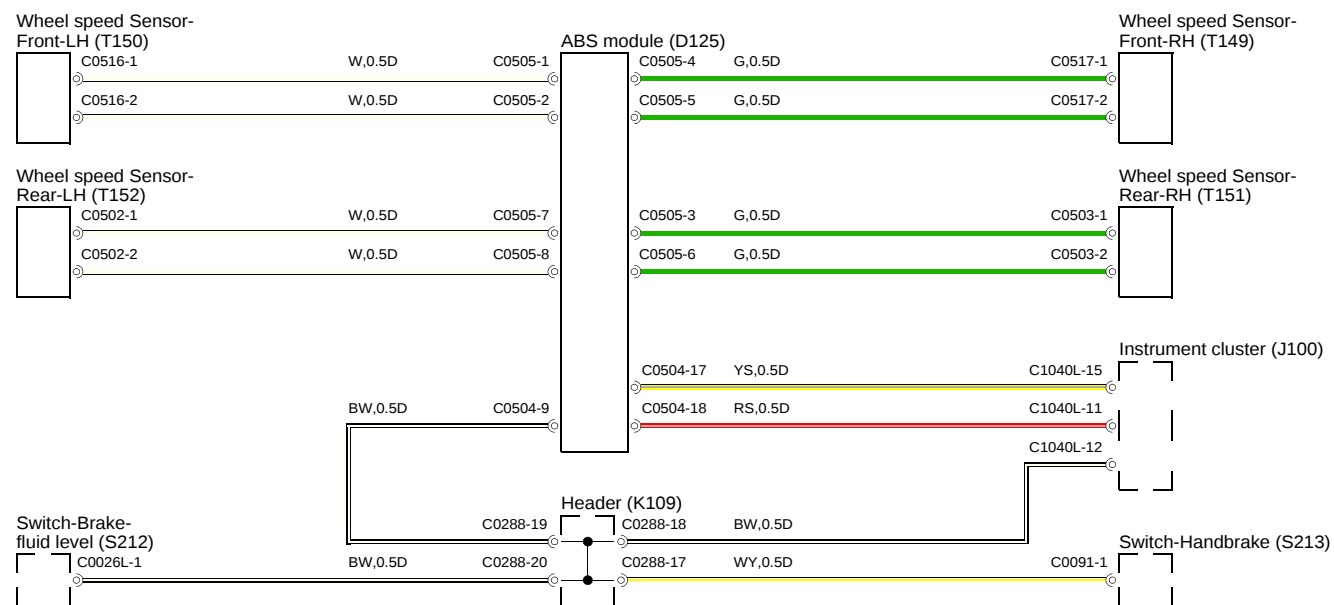
Ground points are identified with an eyelet symbol and a connector number, except where components are grounded through its fixings, when only the eyelet is shown.

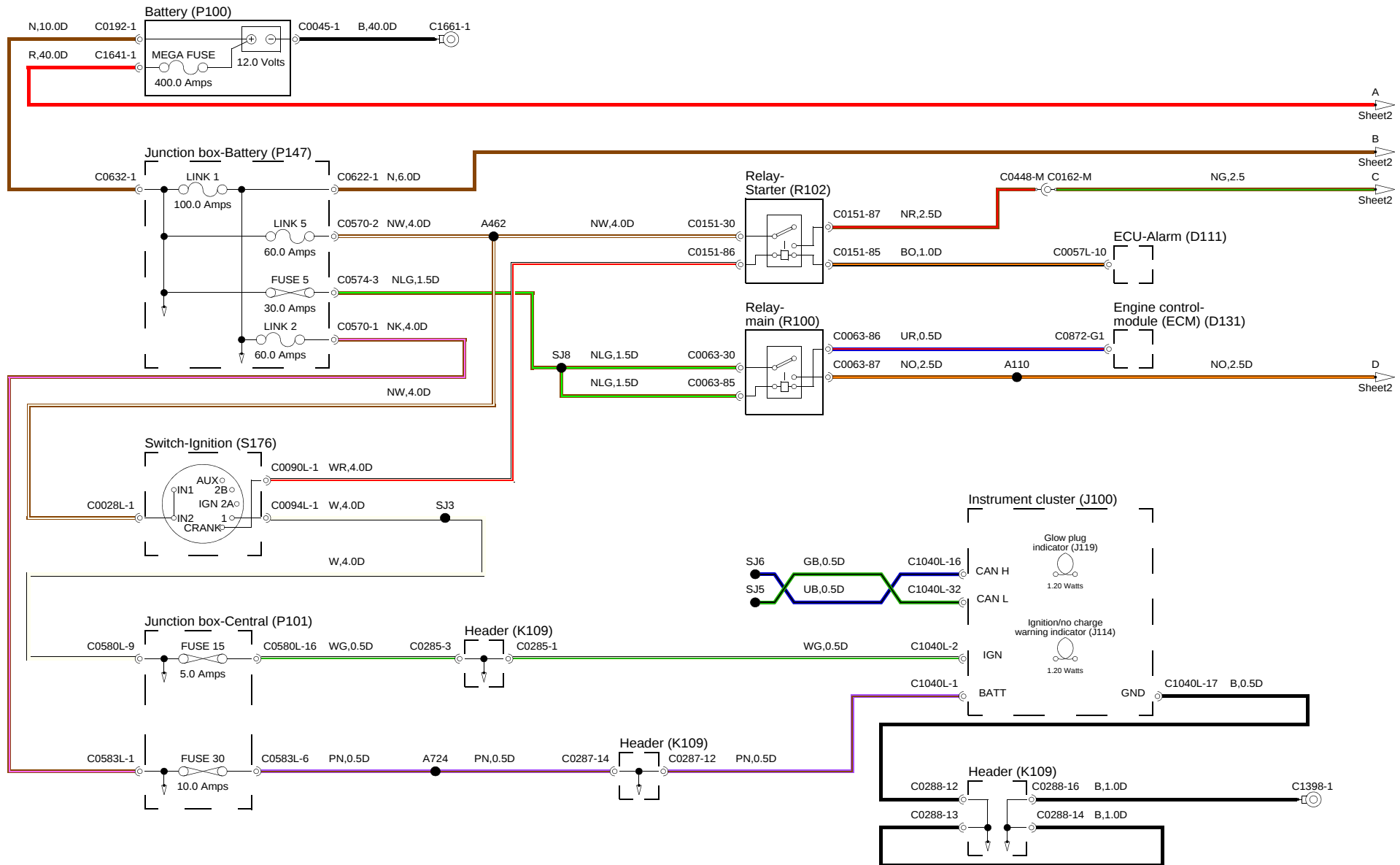
Colour Codes

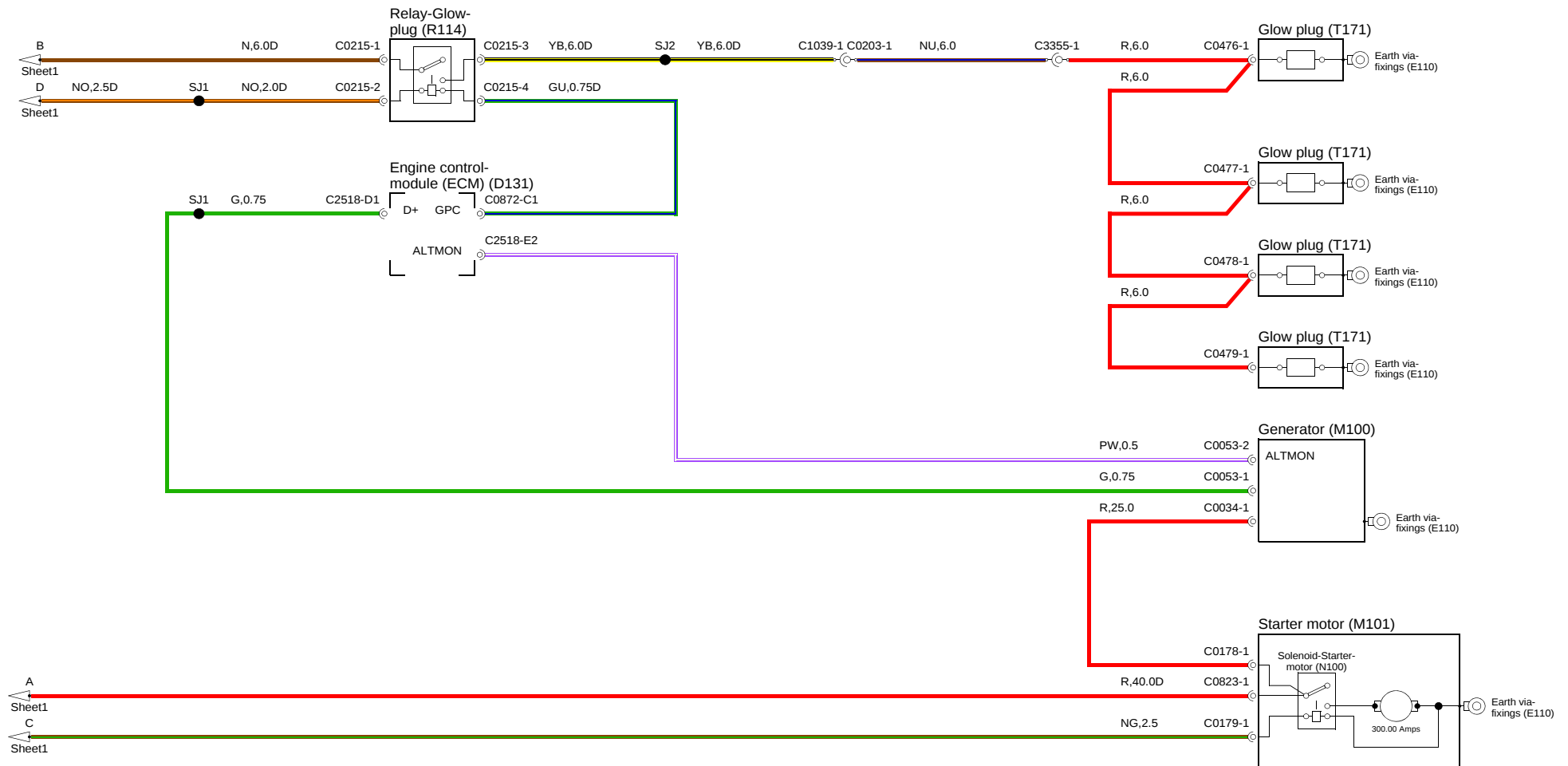
CODE	COLOUR
BK or B	BLACK
BN or N	BROWN
BU or U	BLUE
GN or G	GREEN
GY or S	GREY (slate)
OG or O	ORANGE
PK or K	PINK
RD or R	RED
VT or P	PURPLE
WH or W	WHITE
YE or Y	YELLOW

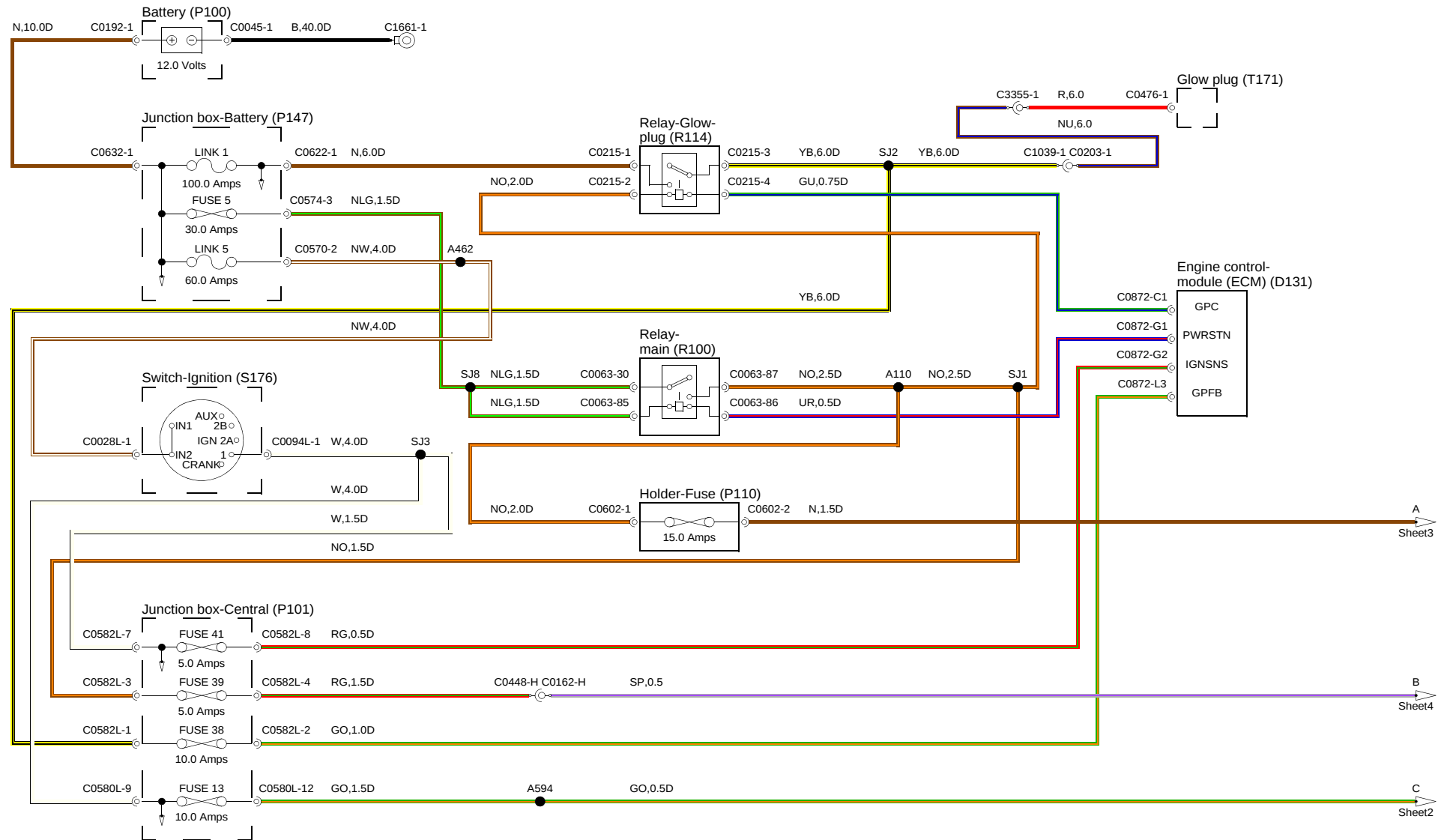
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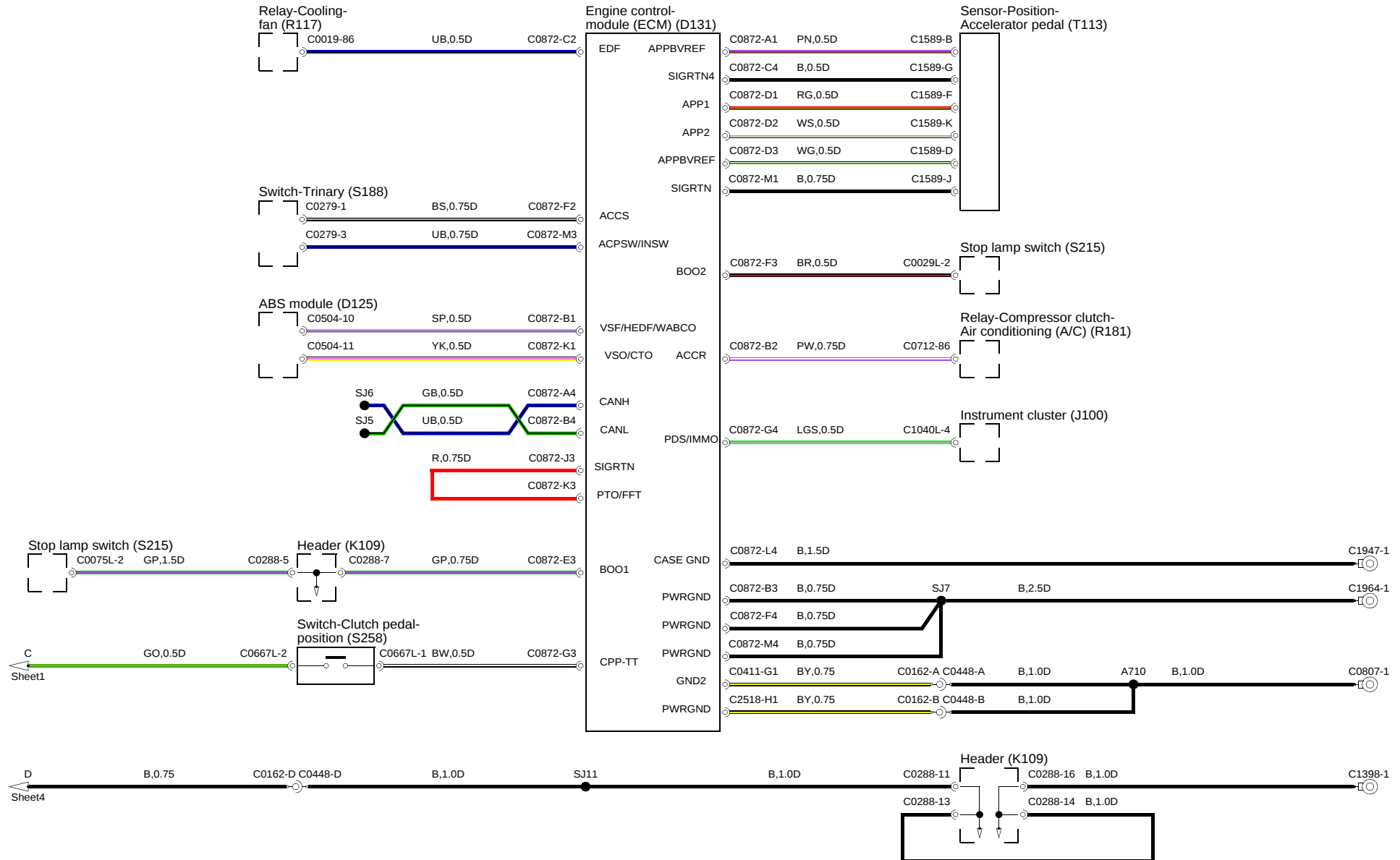


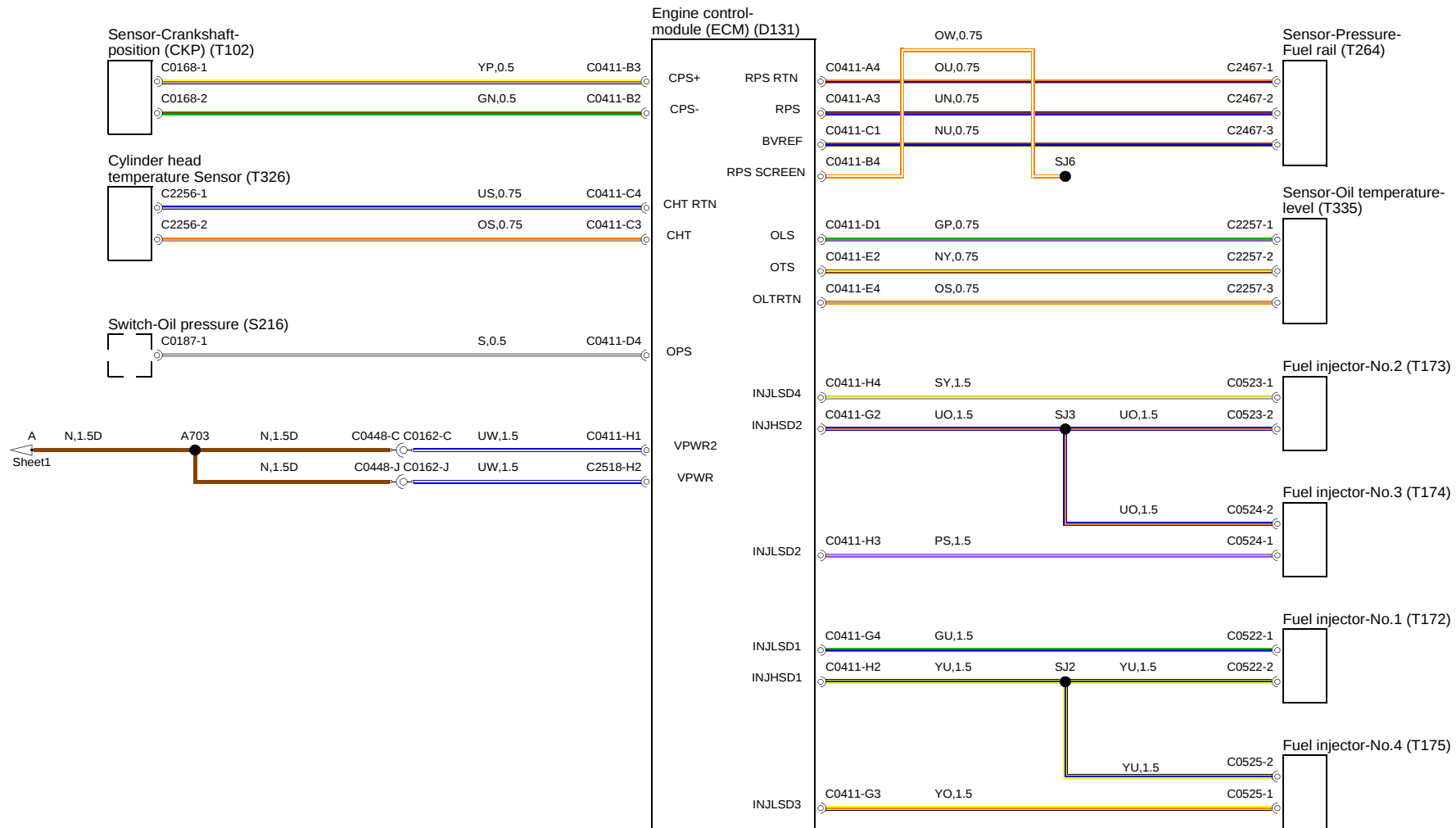


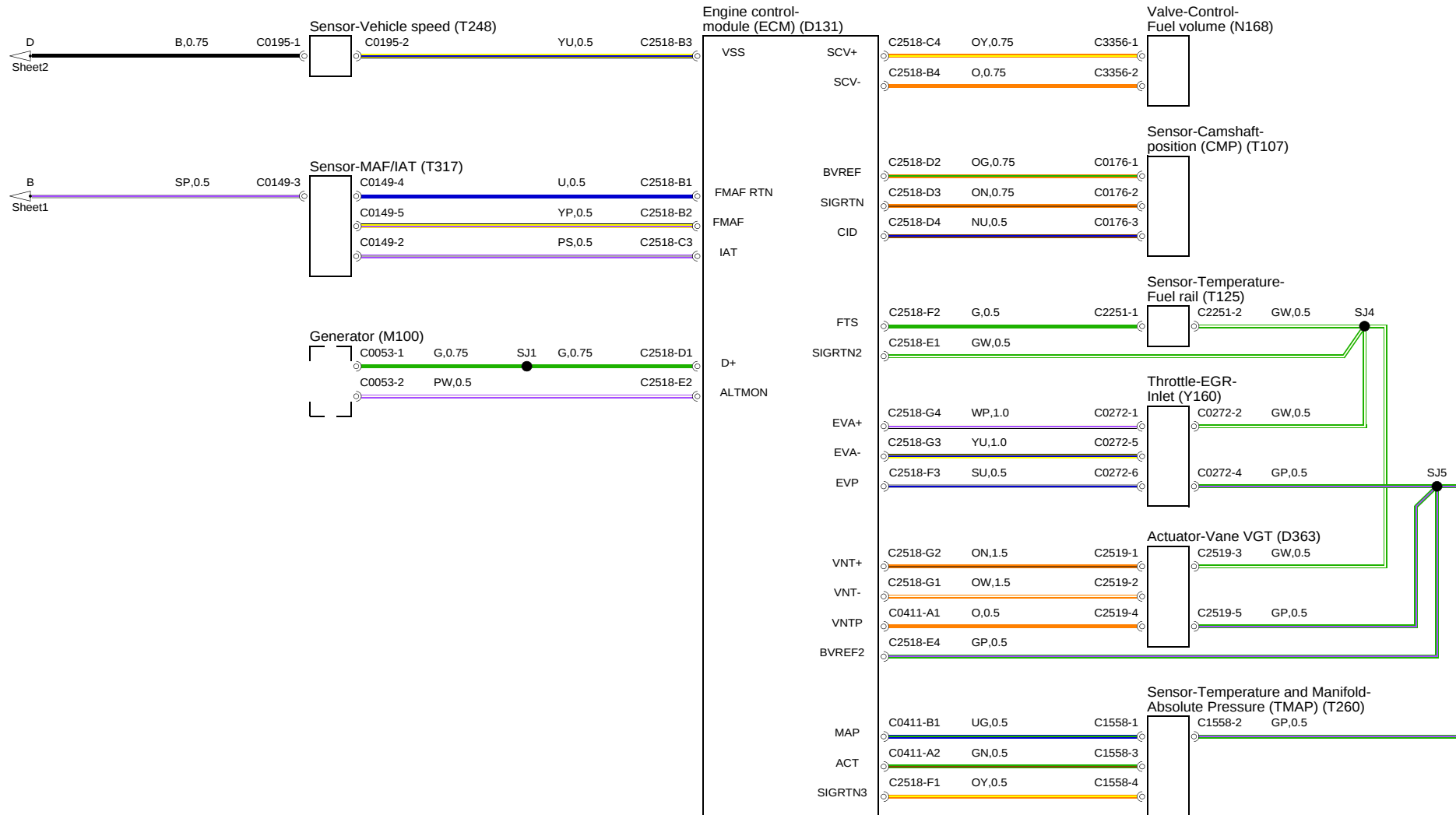




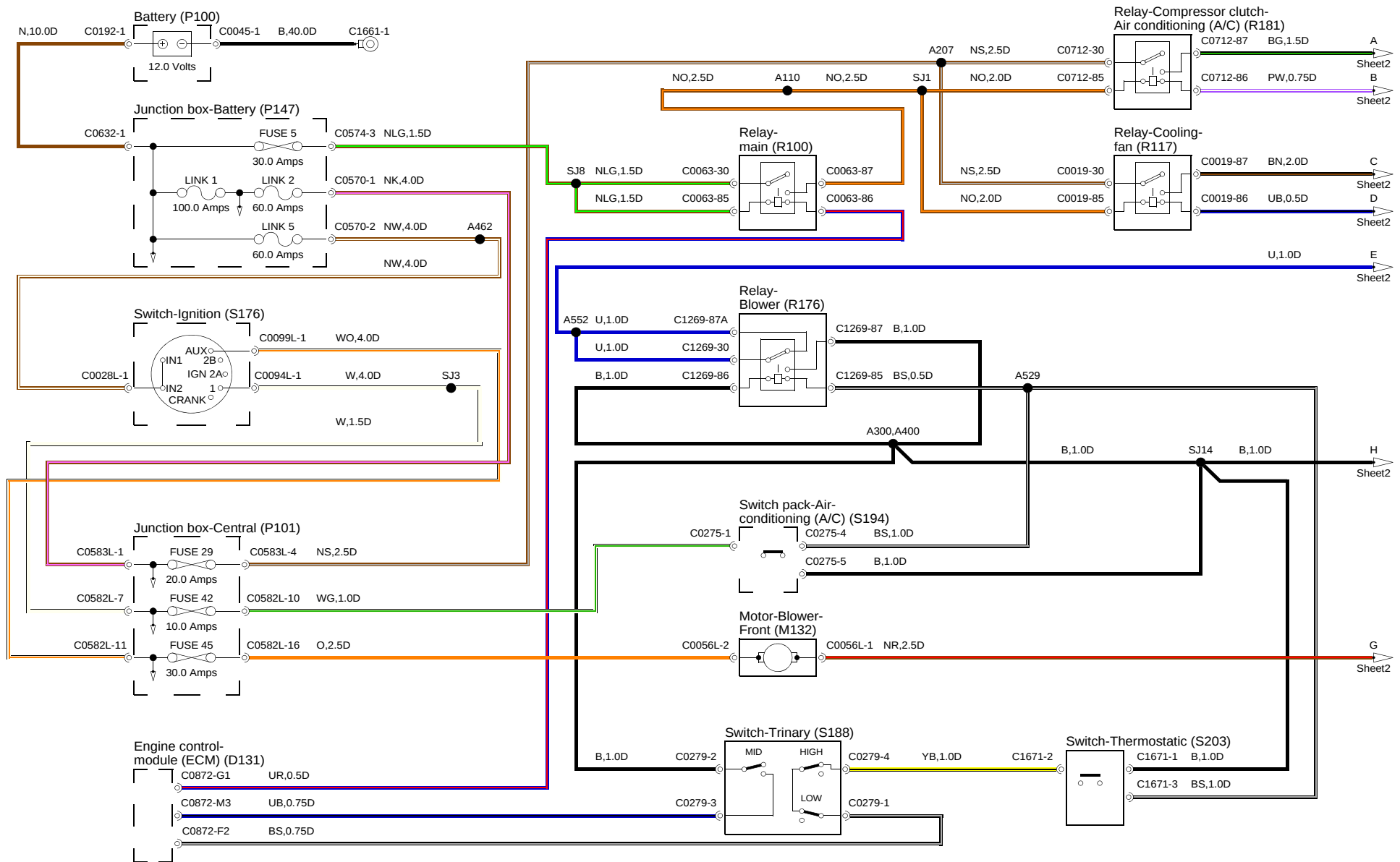


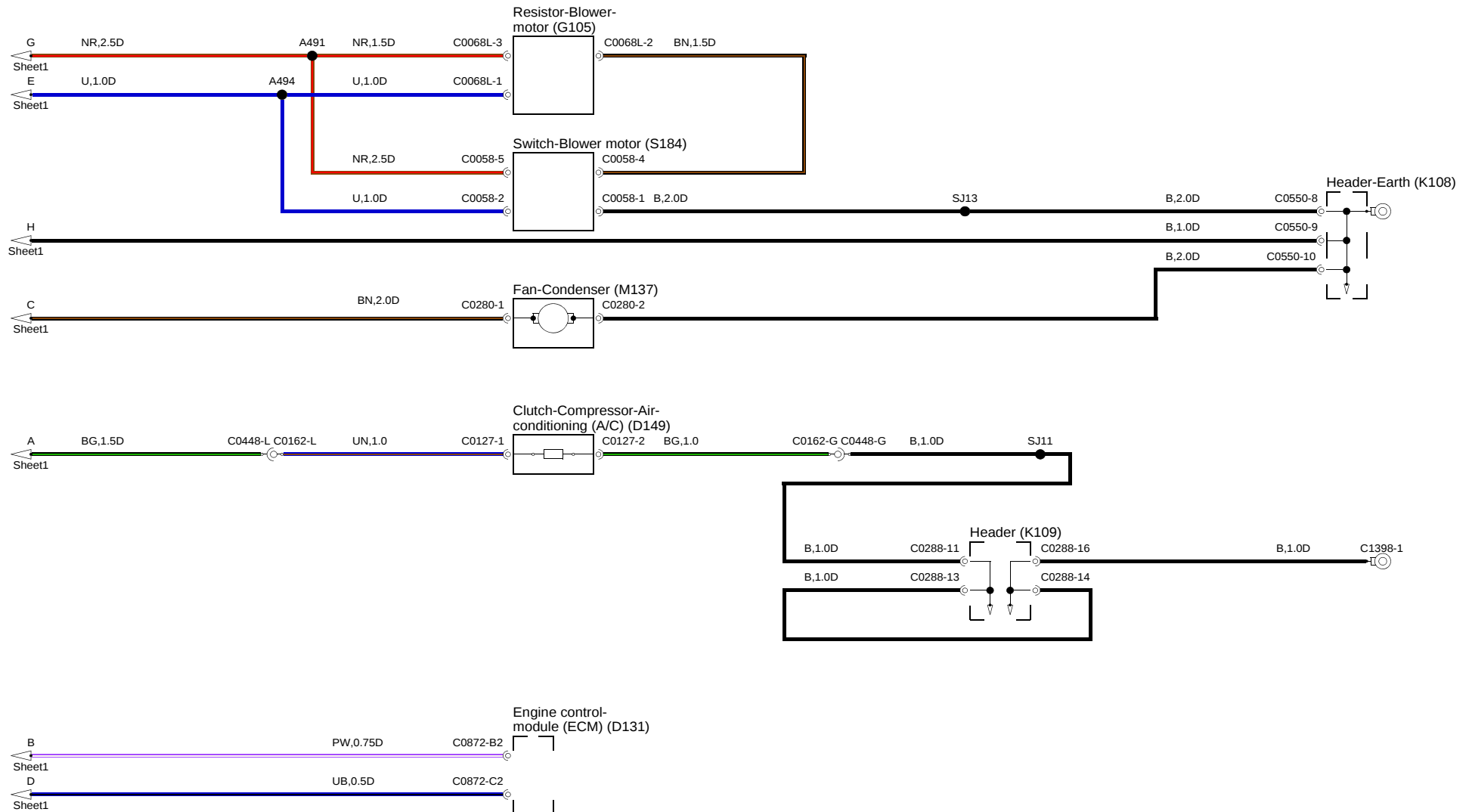


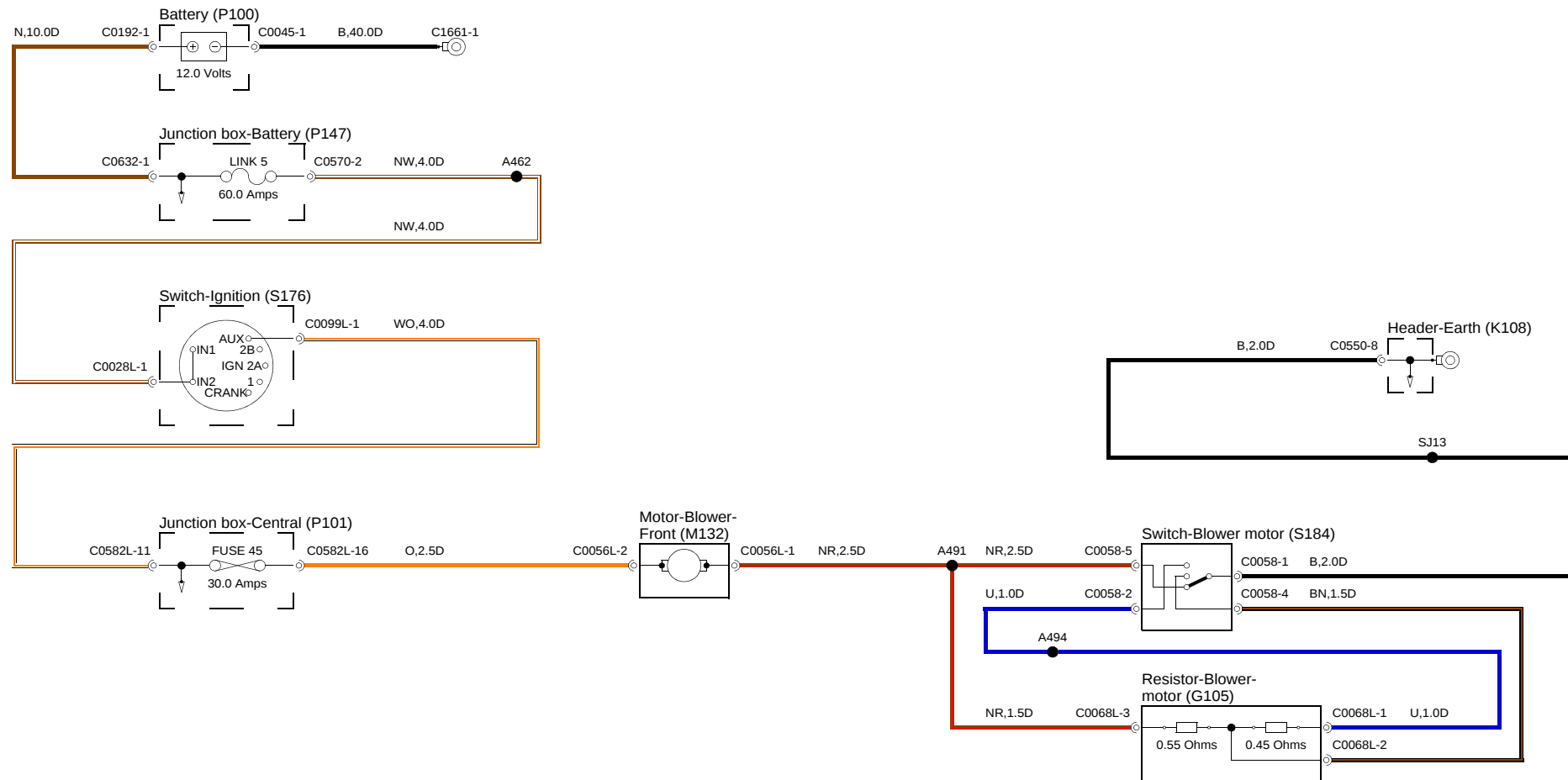


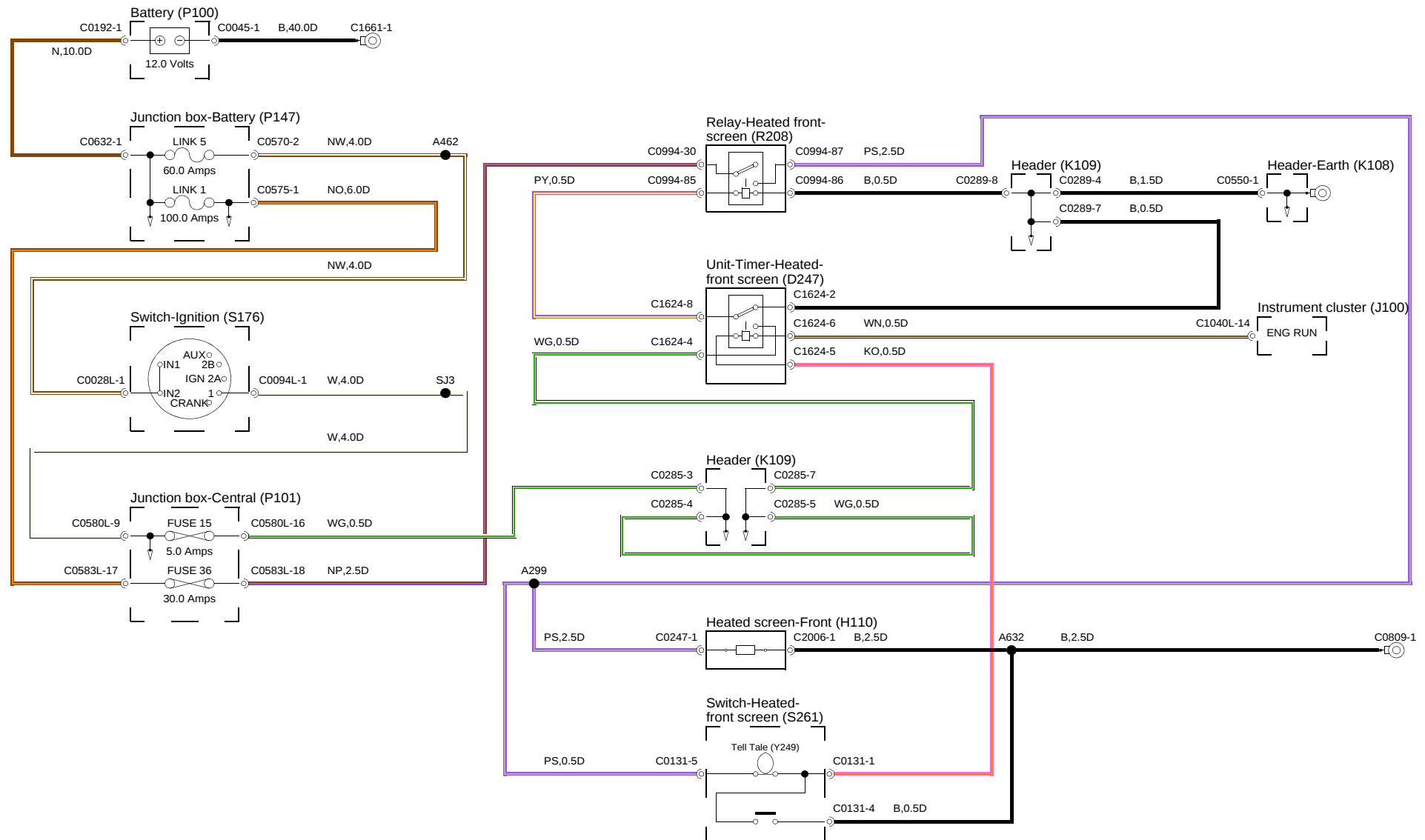


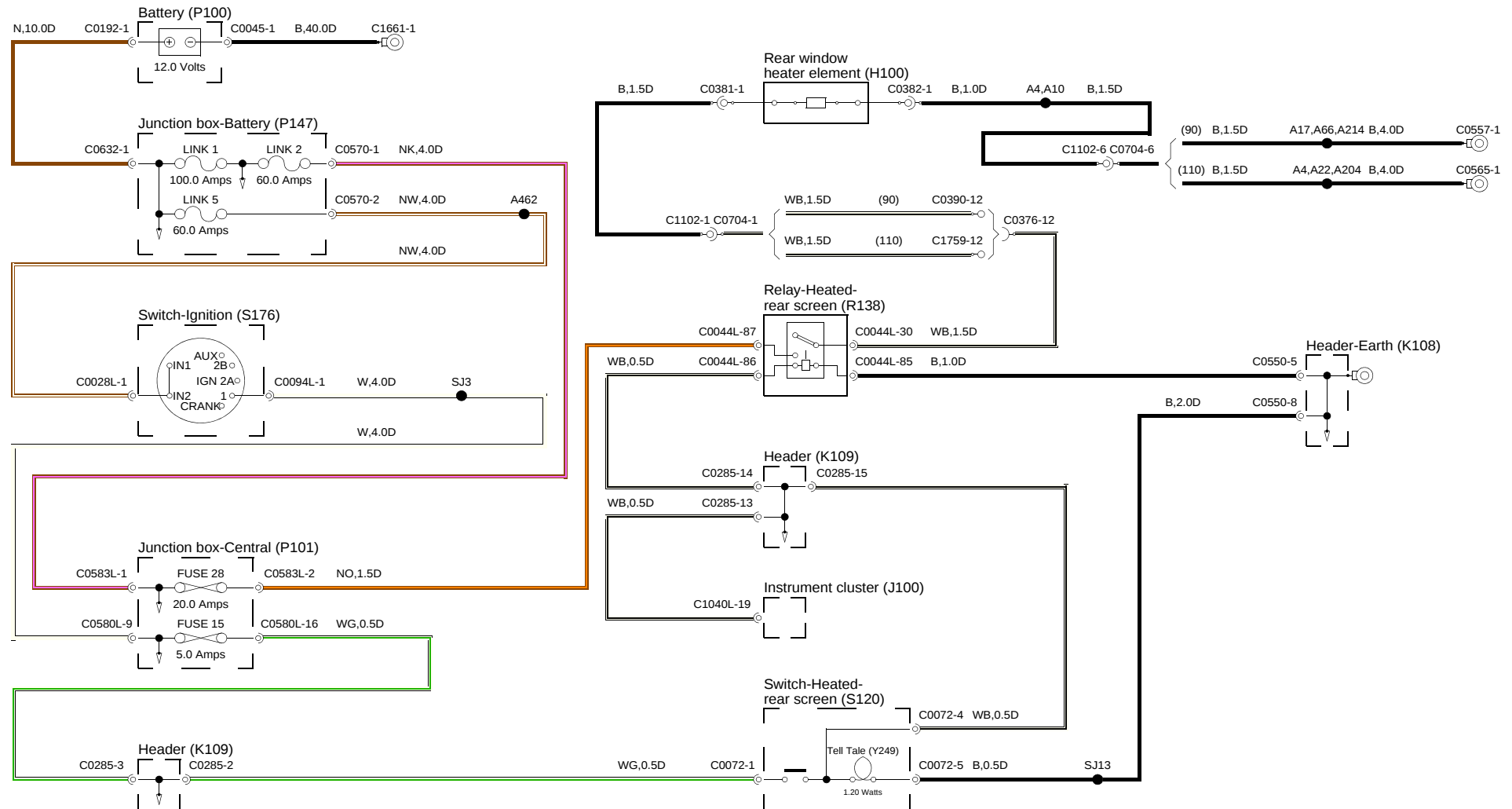
412-01 - CLIMATE CONTROL

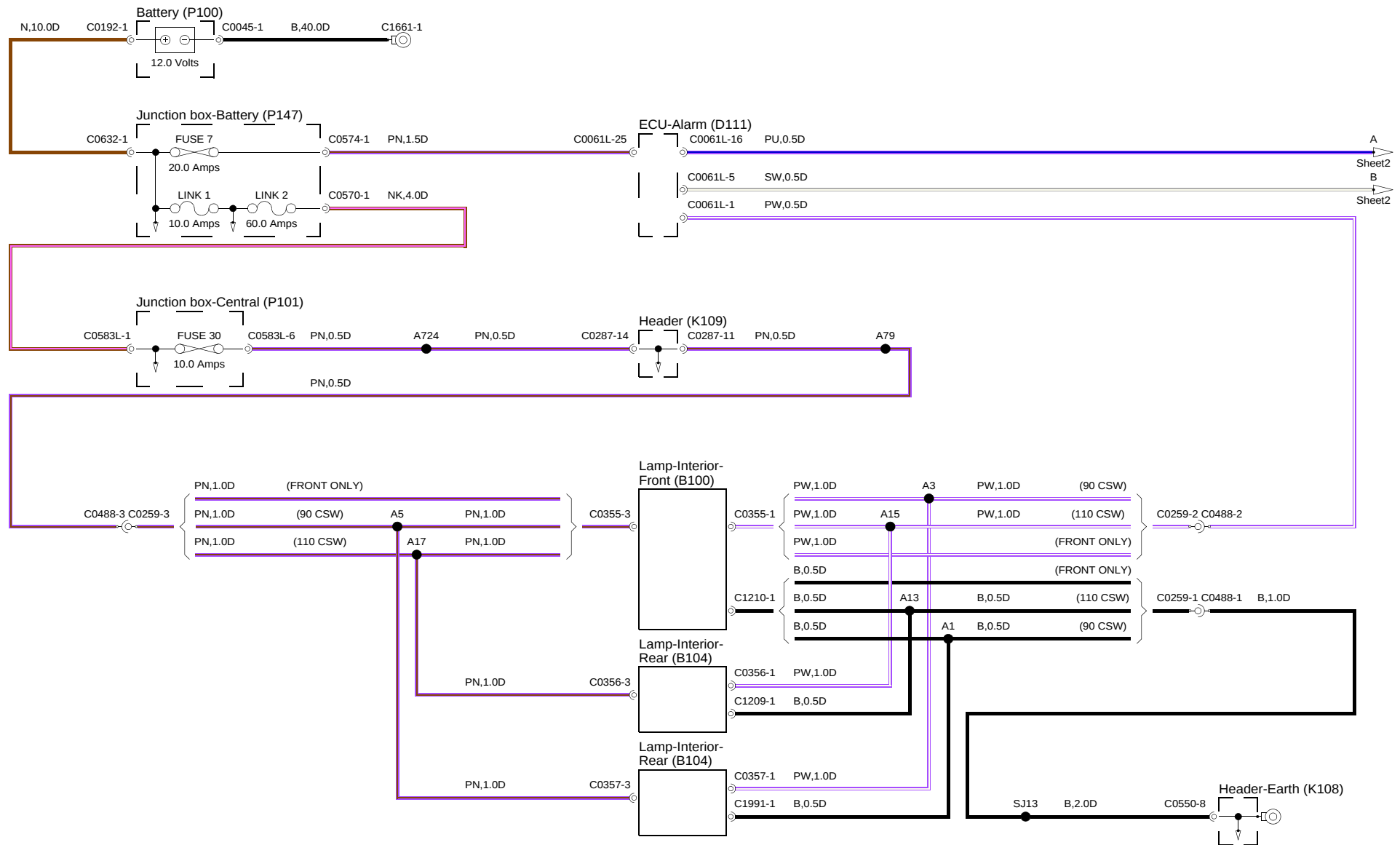




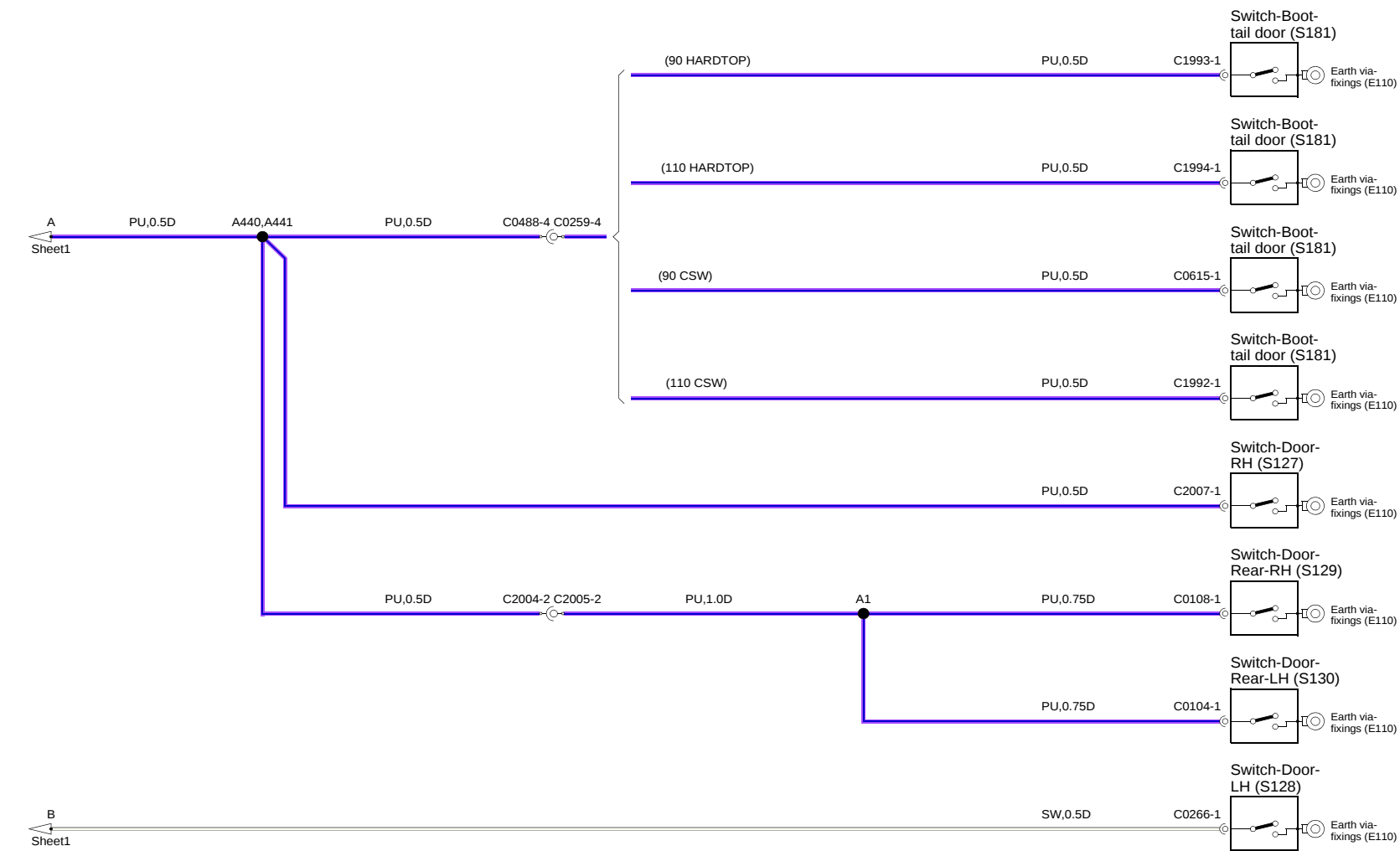


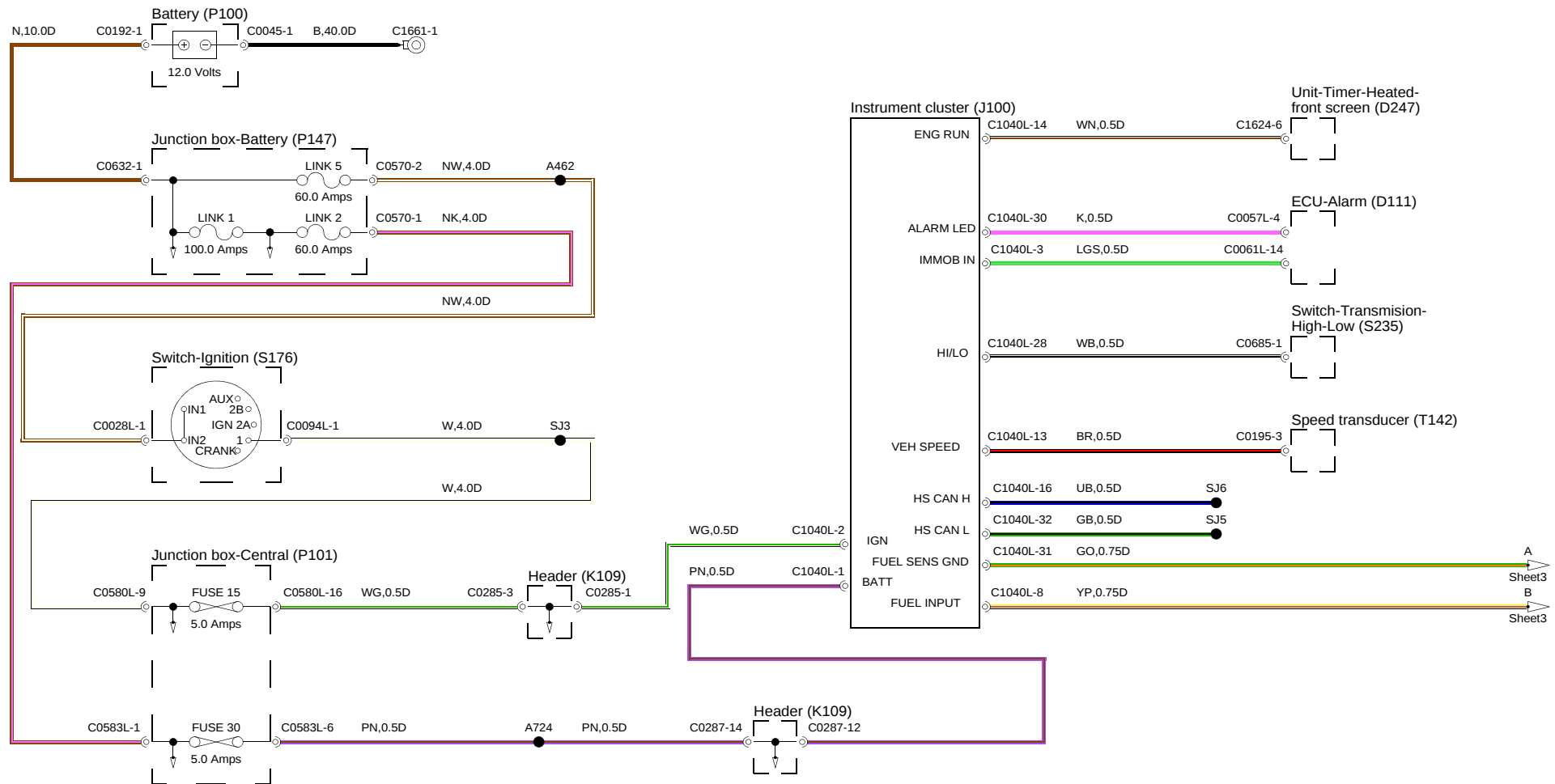




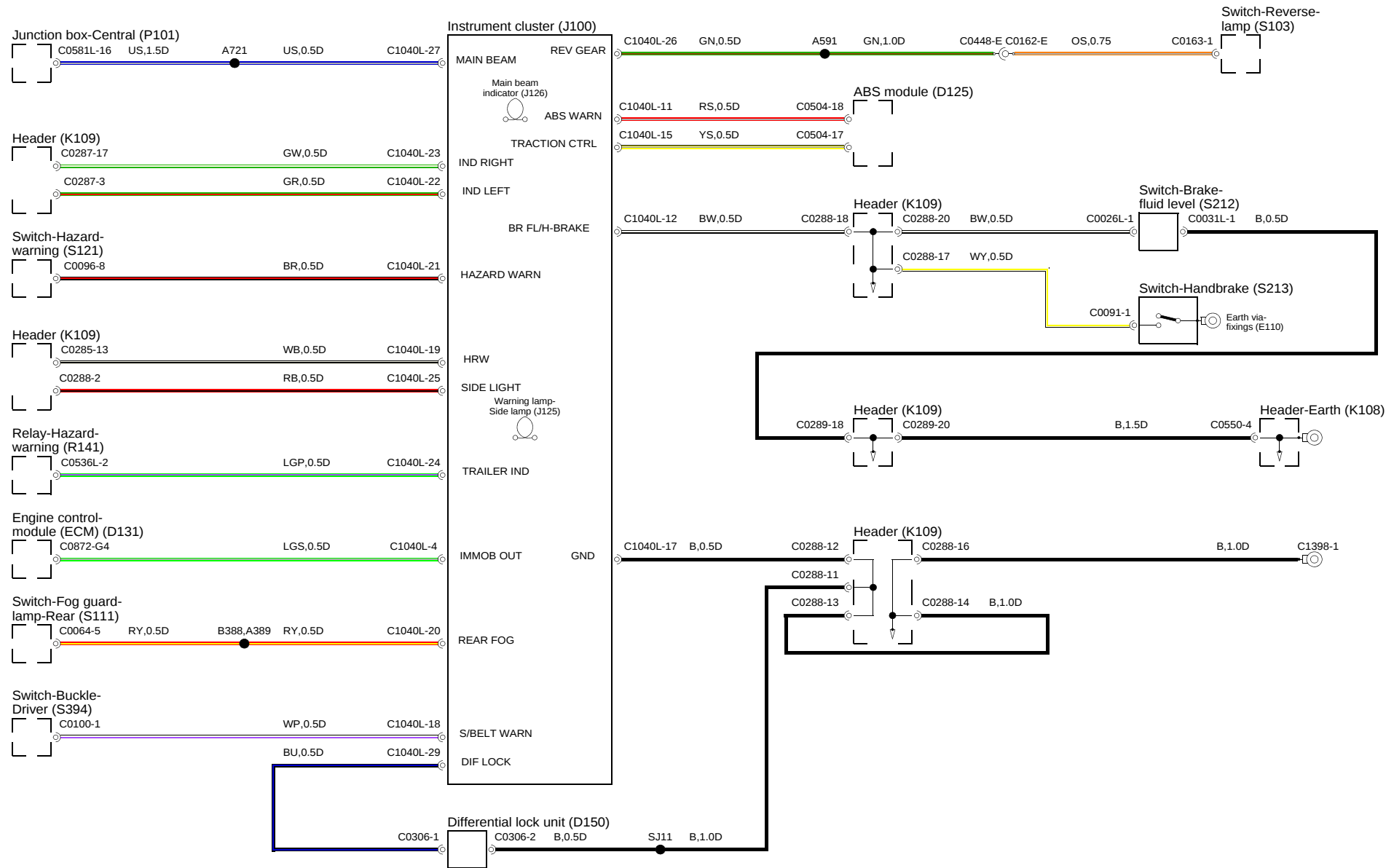


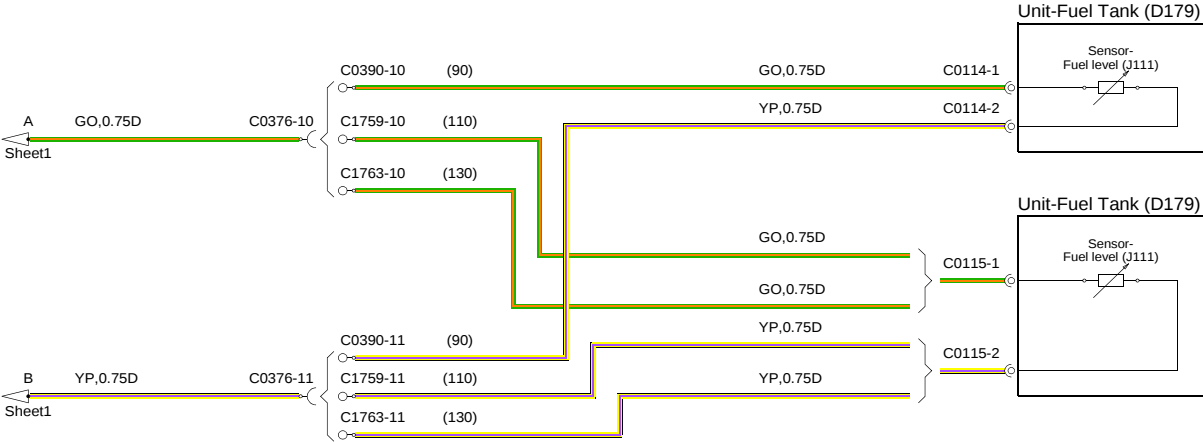
413-00 - INSTRUMENT CLUSTER AND PANEL ILLUMINATION

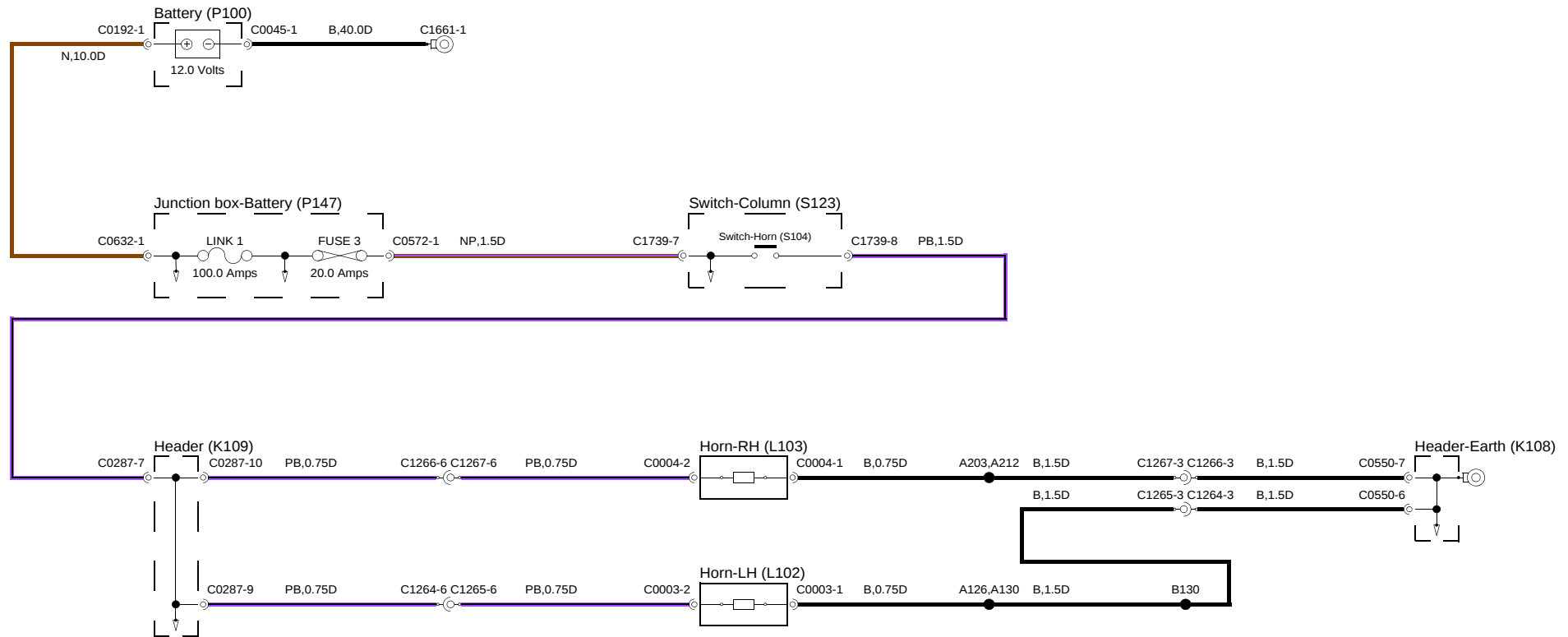


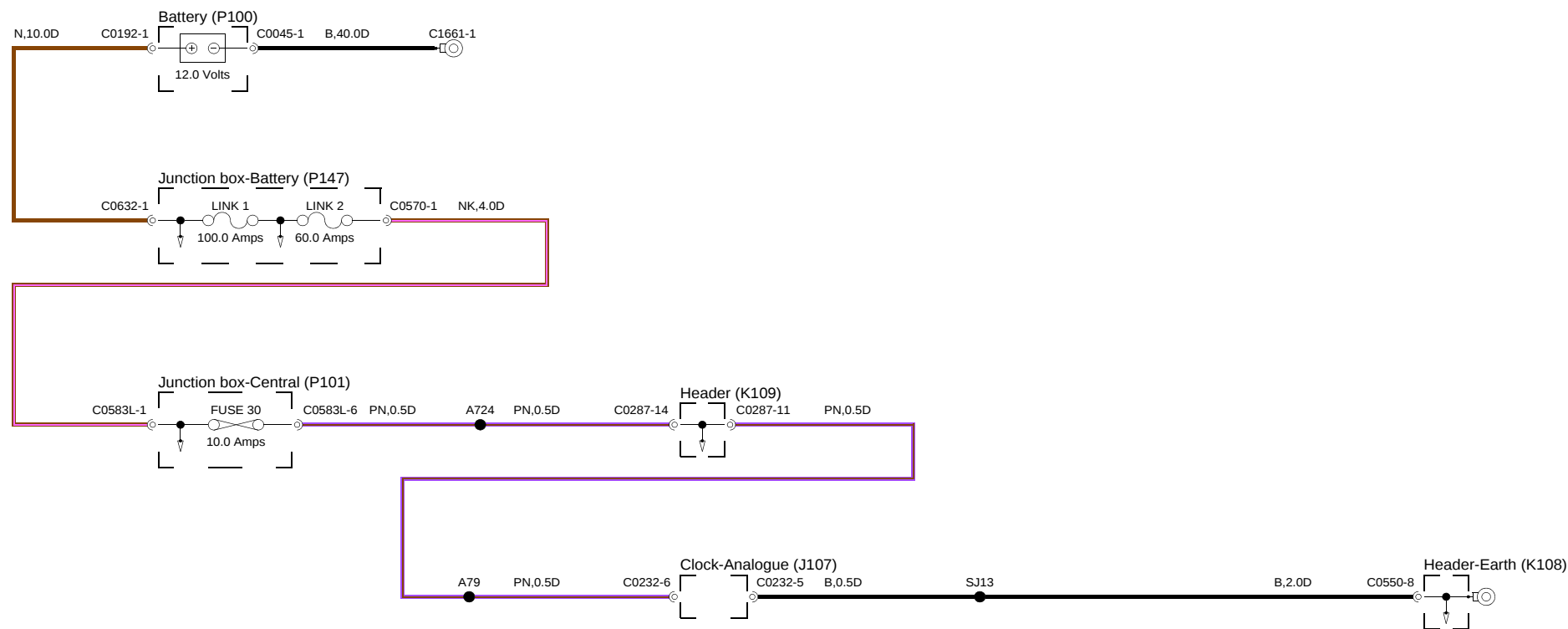


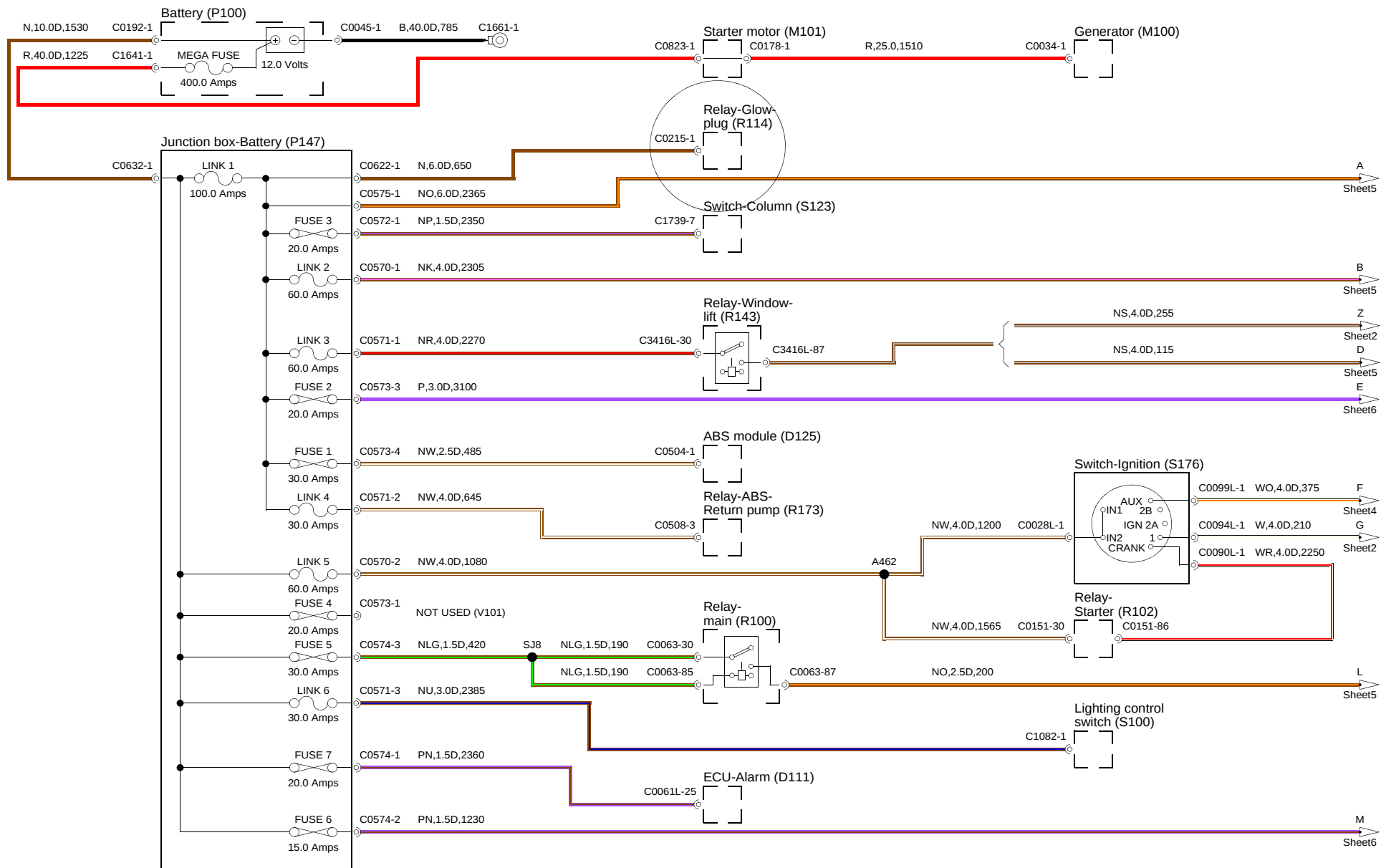
413-01 - INSTRUMENT CLUSTER

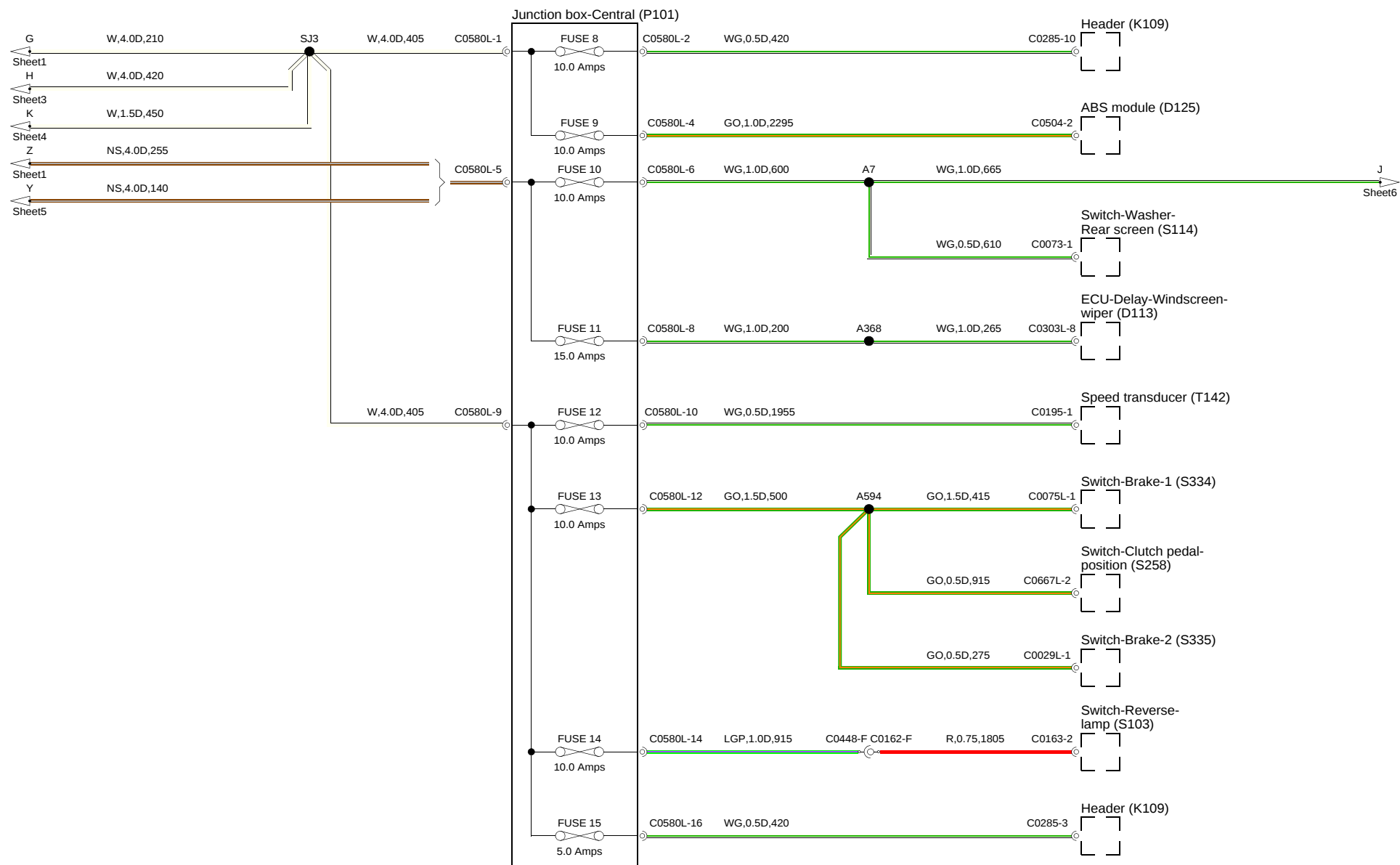


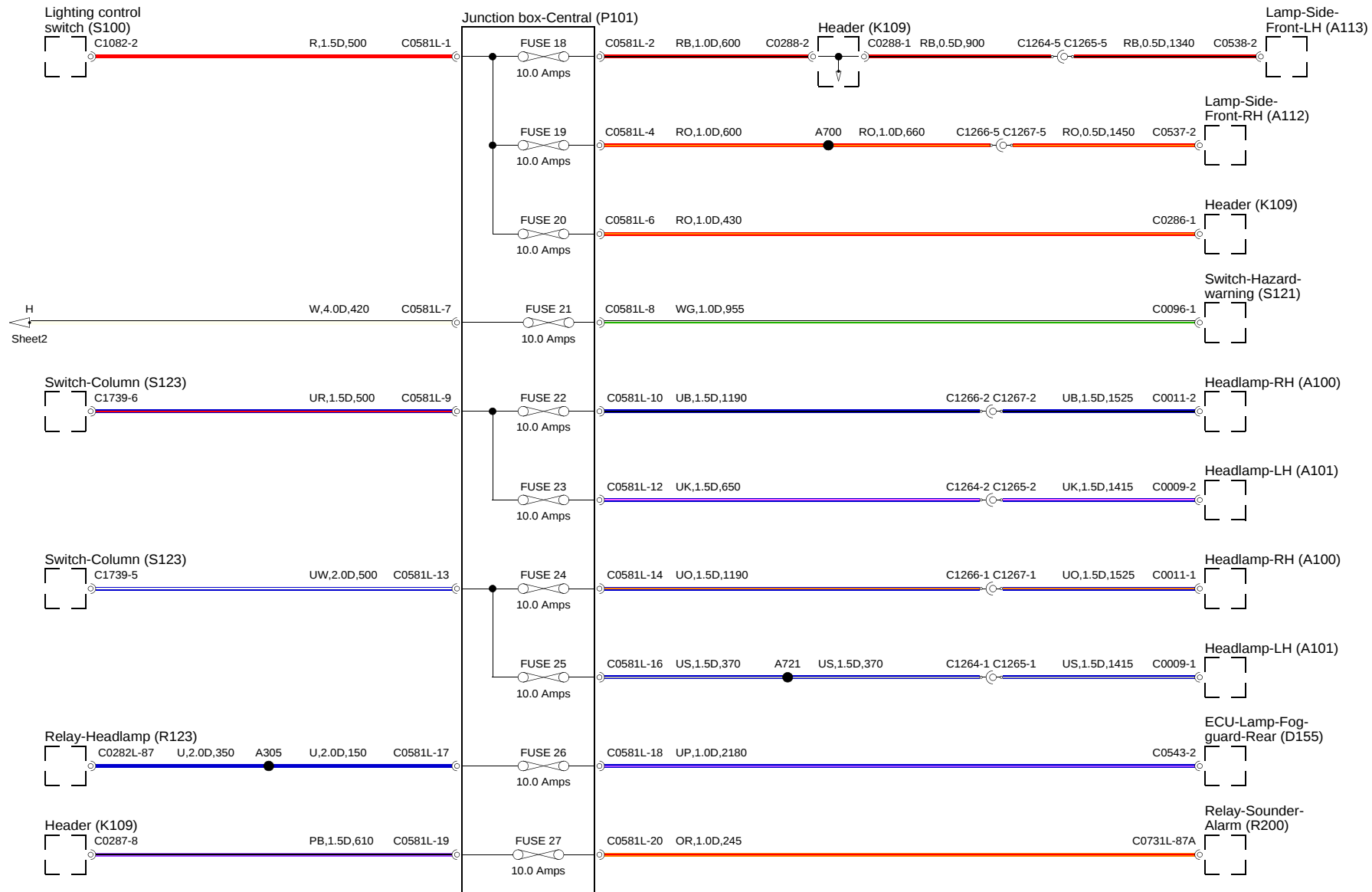


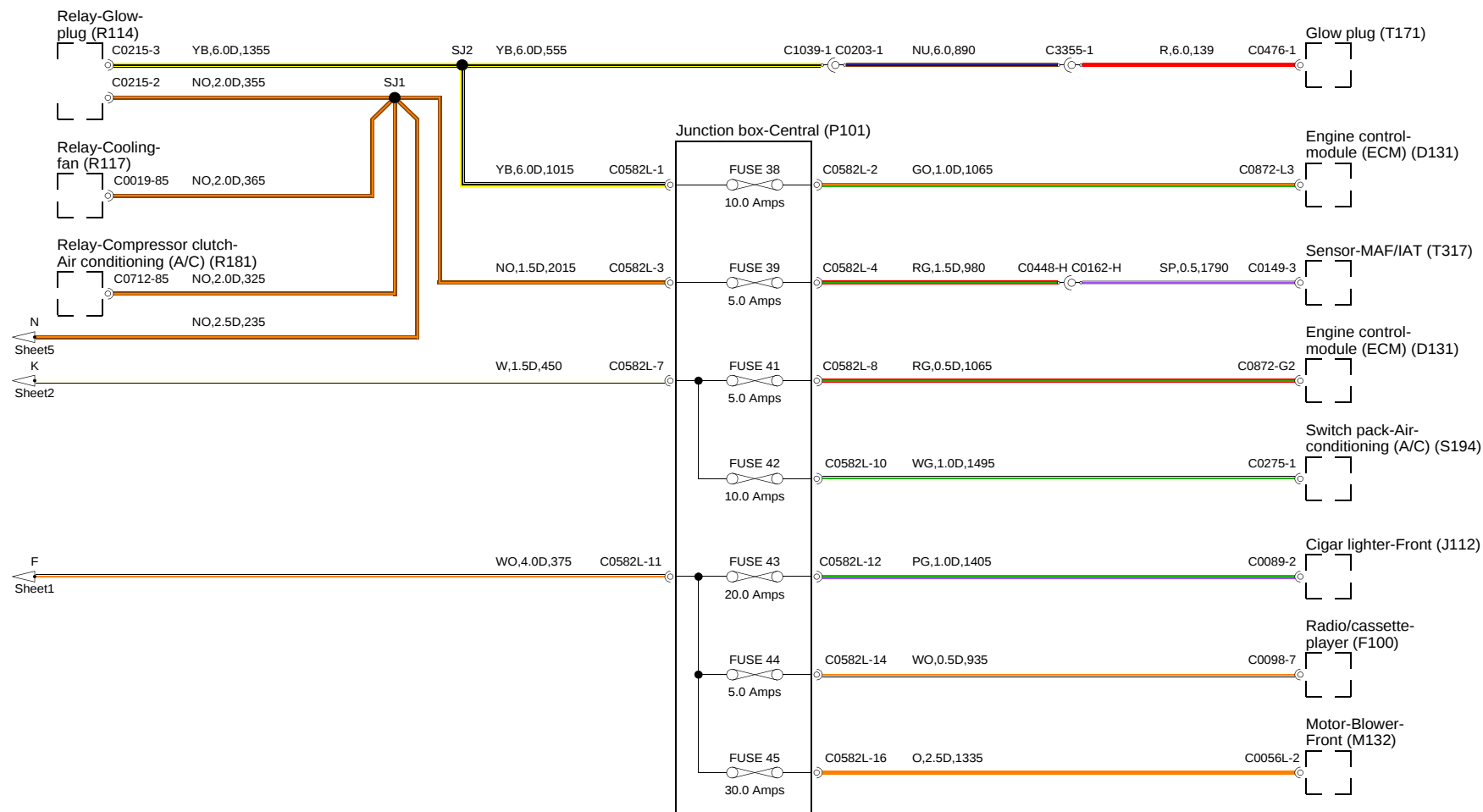


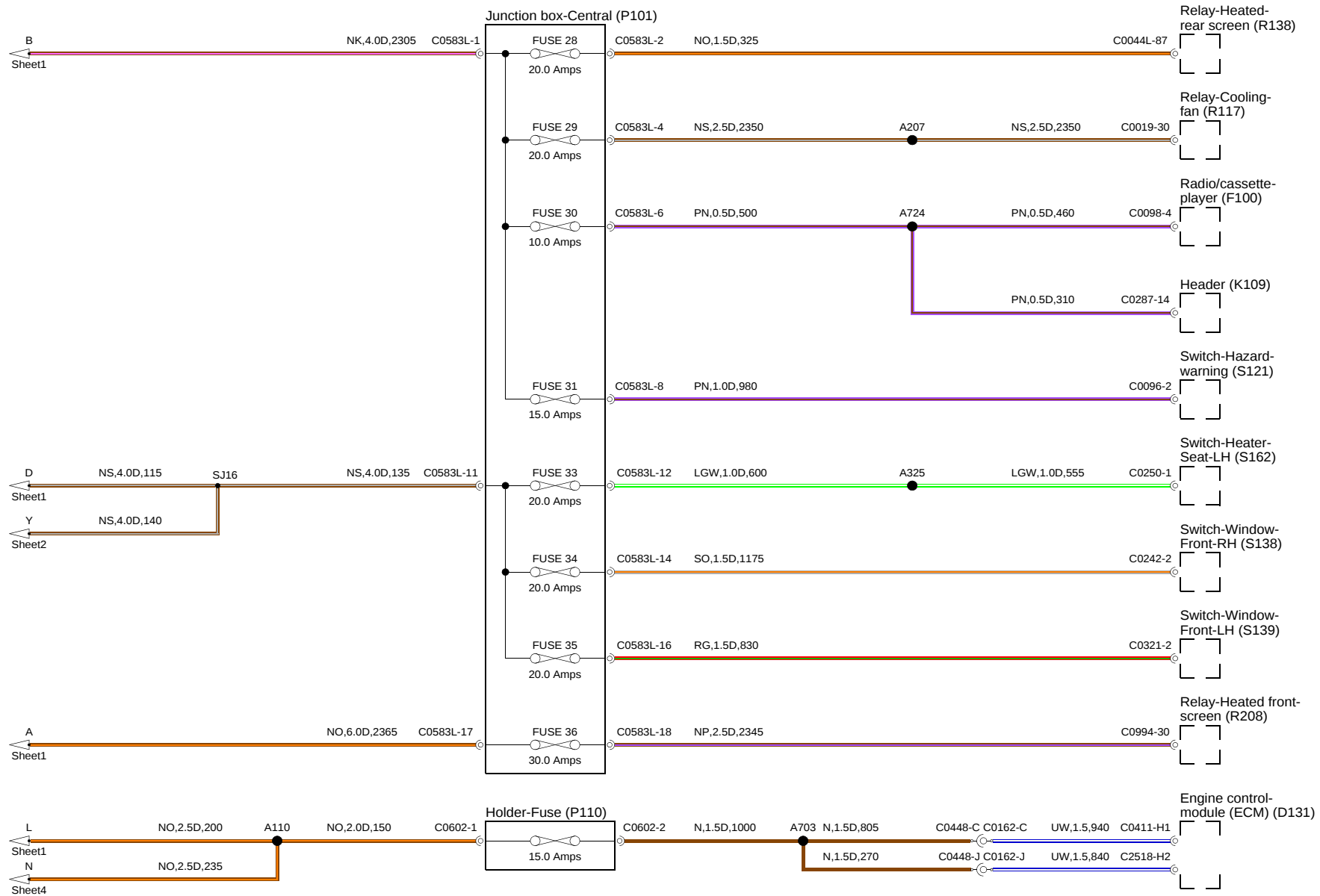


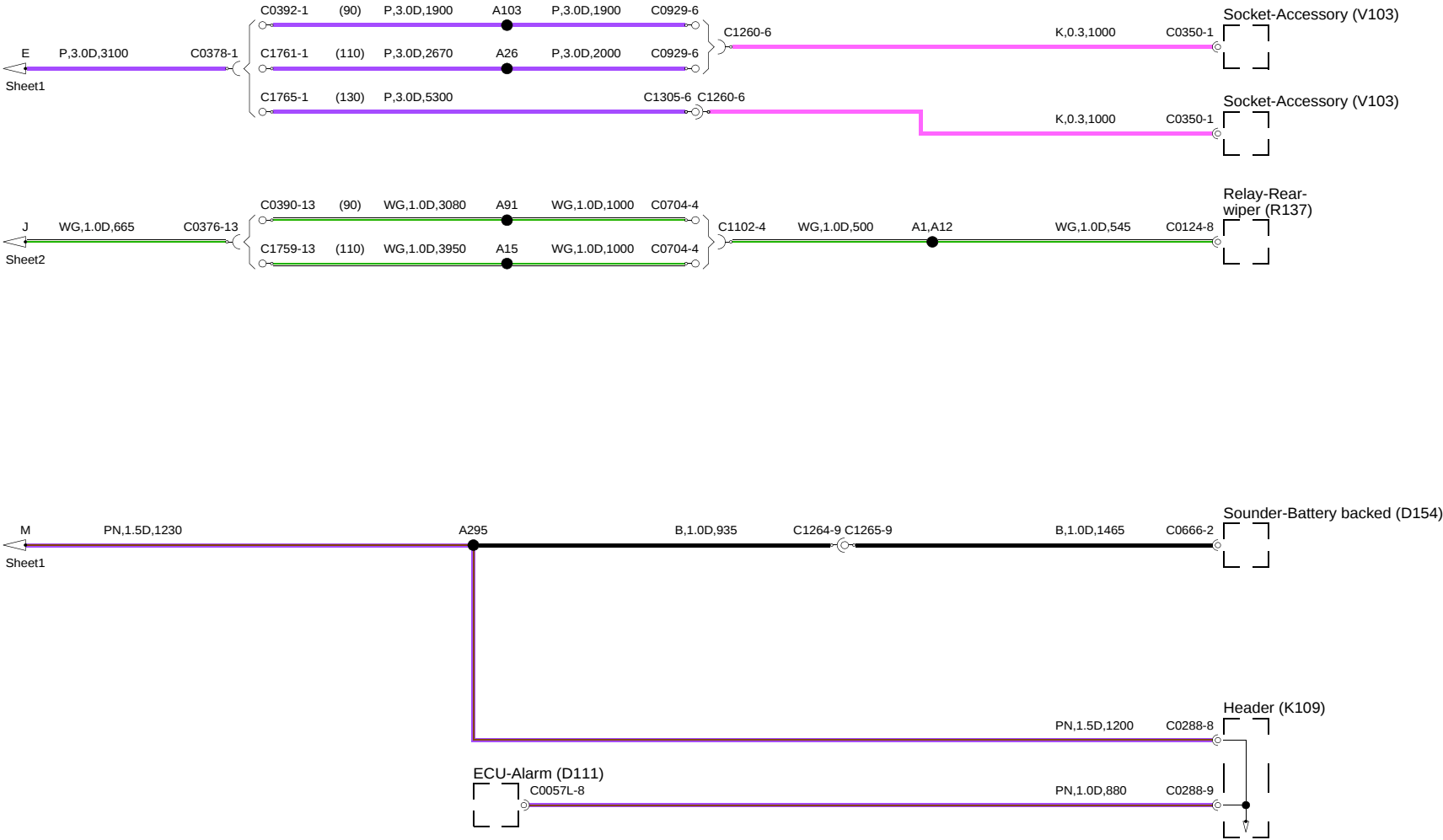


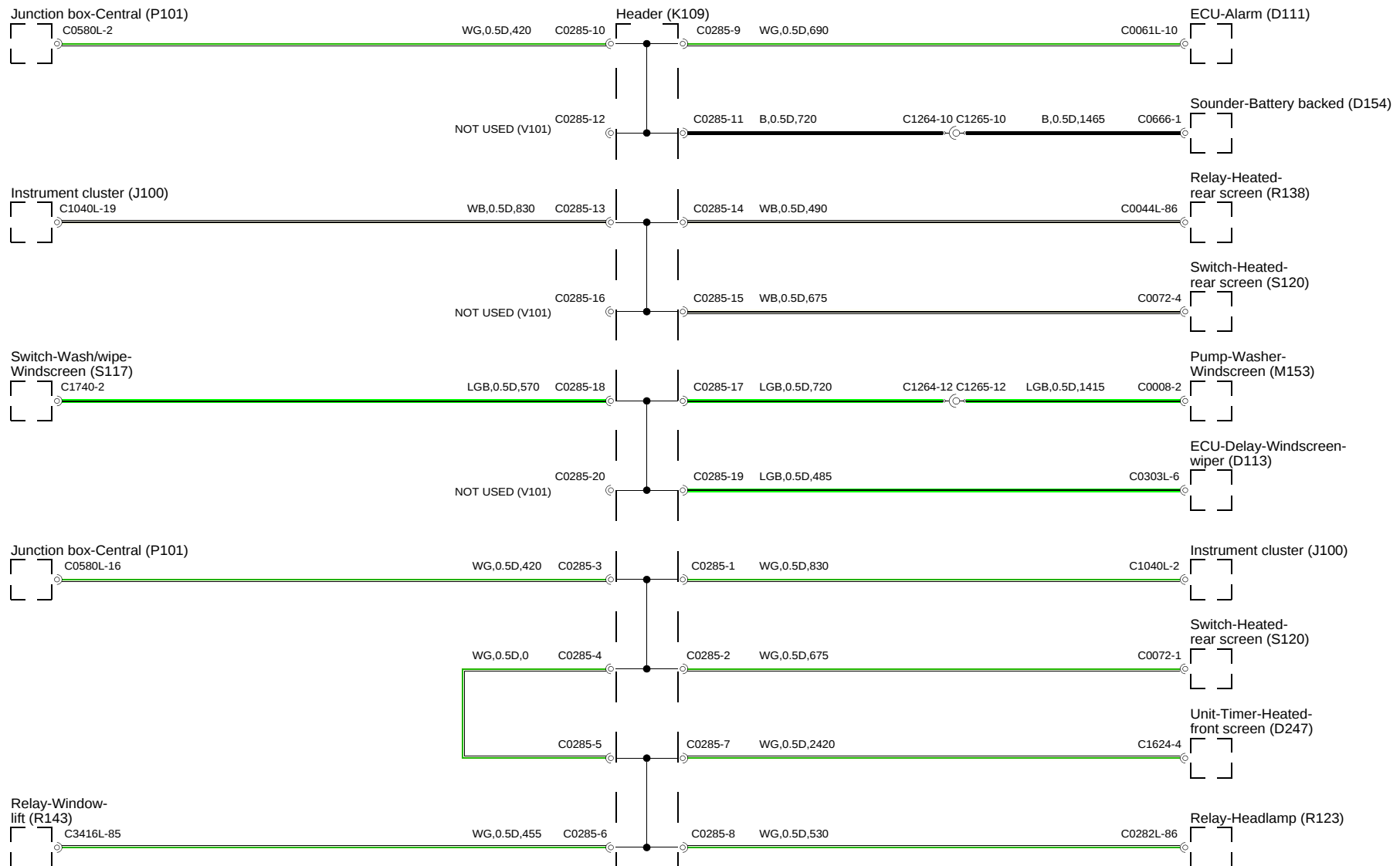


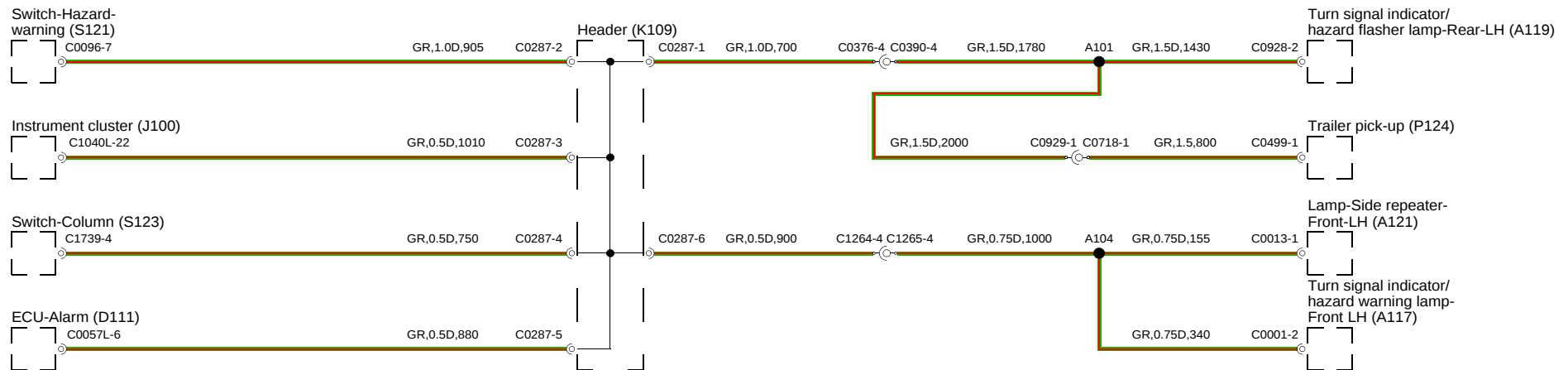


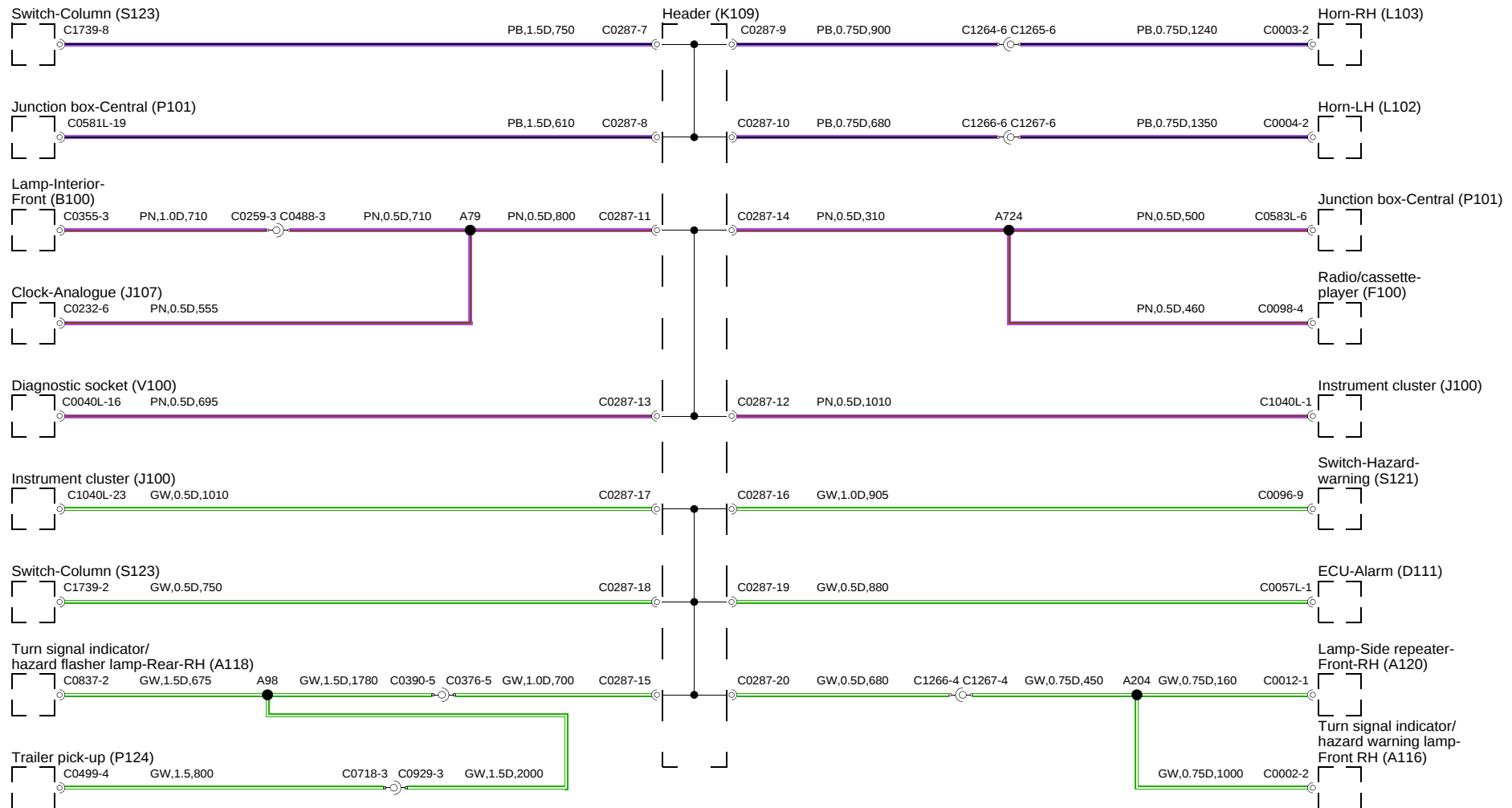


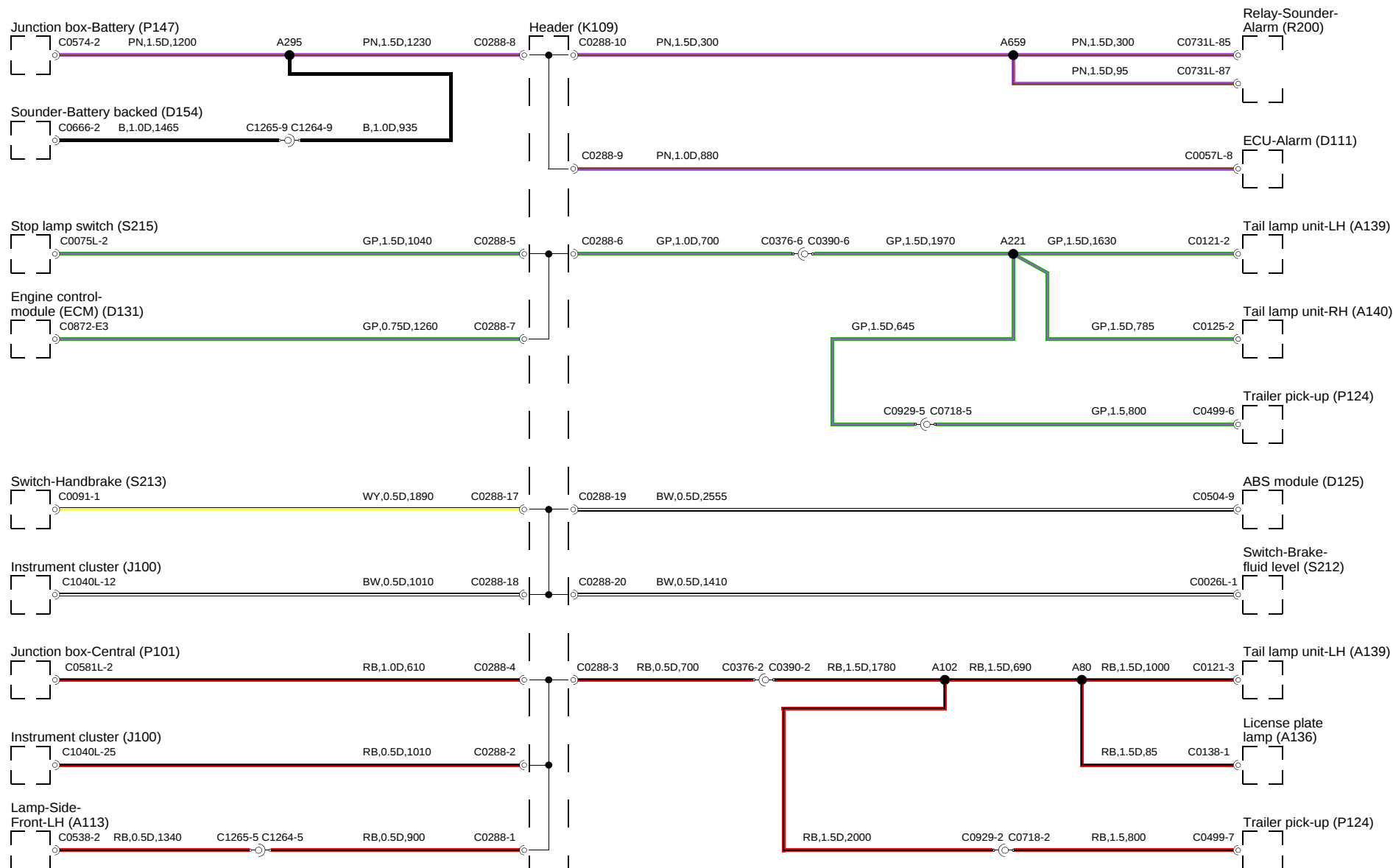


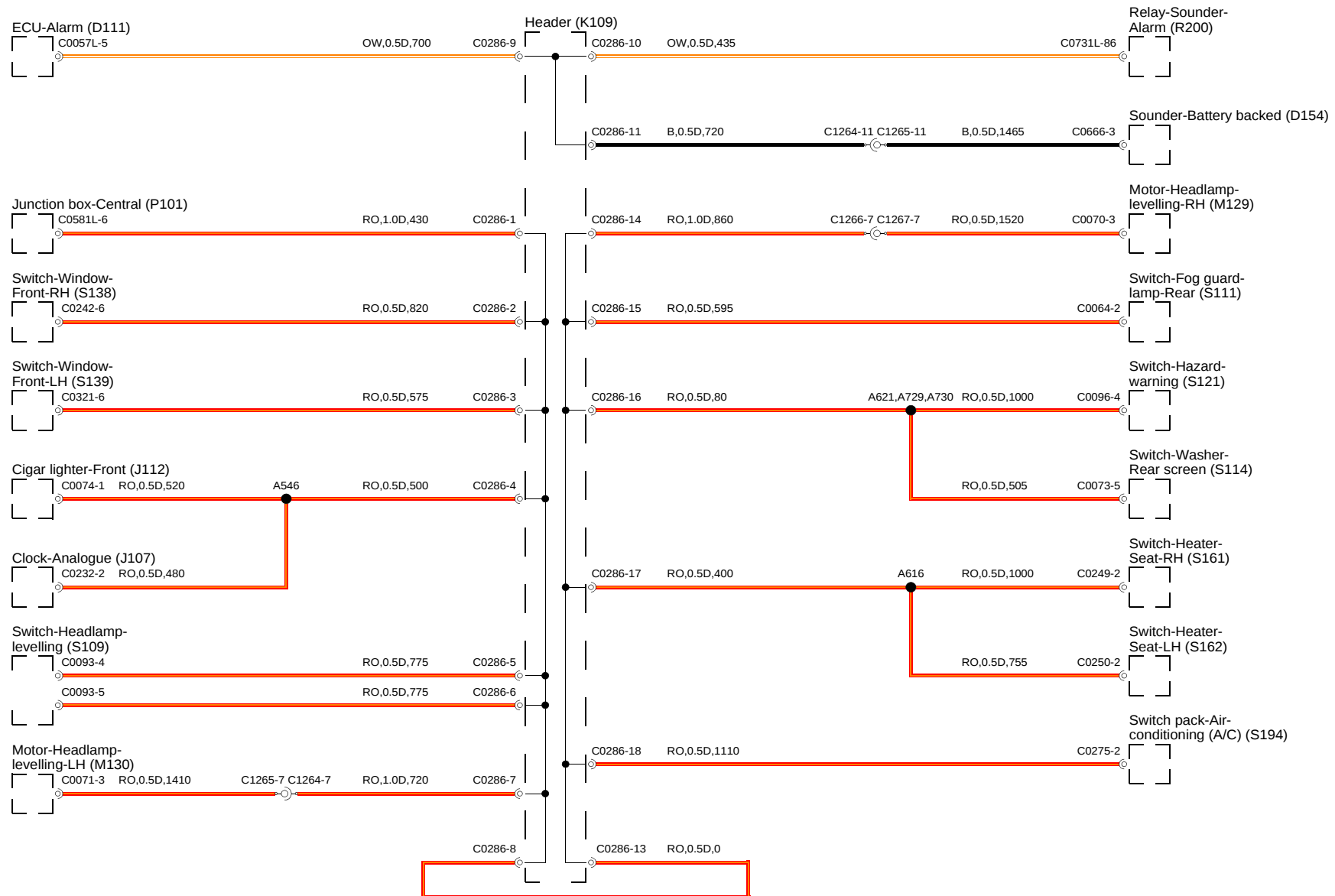


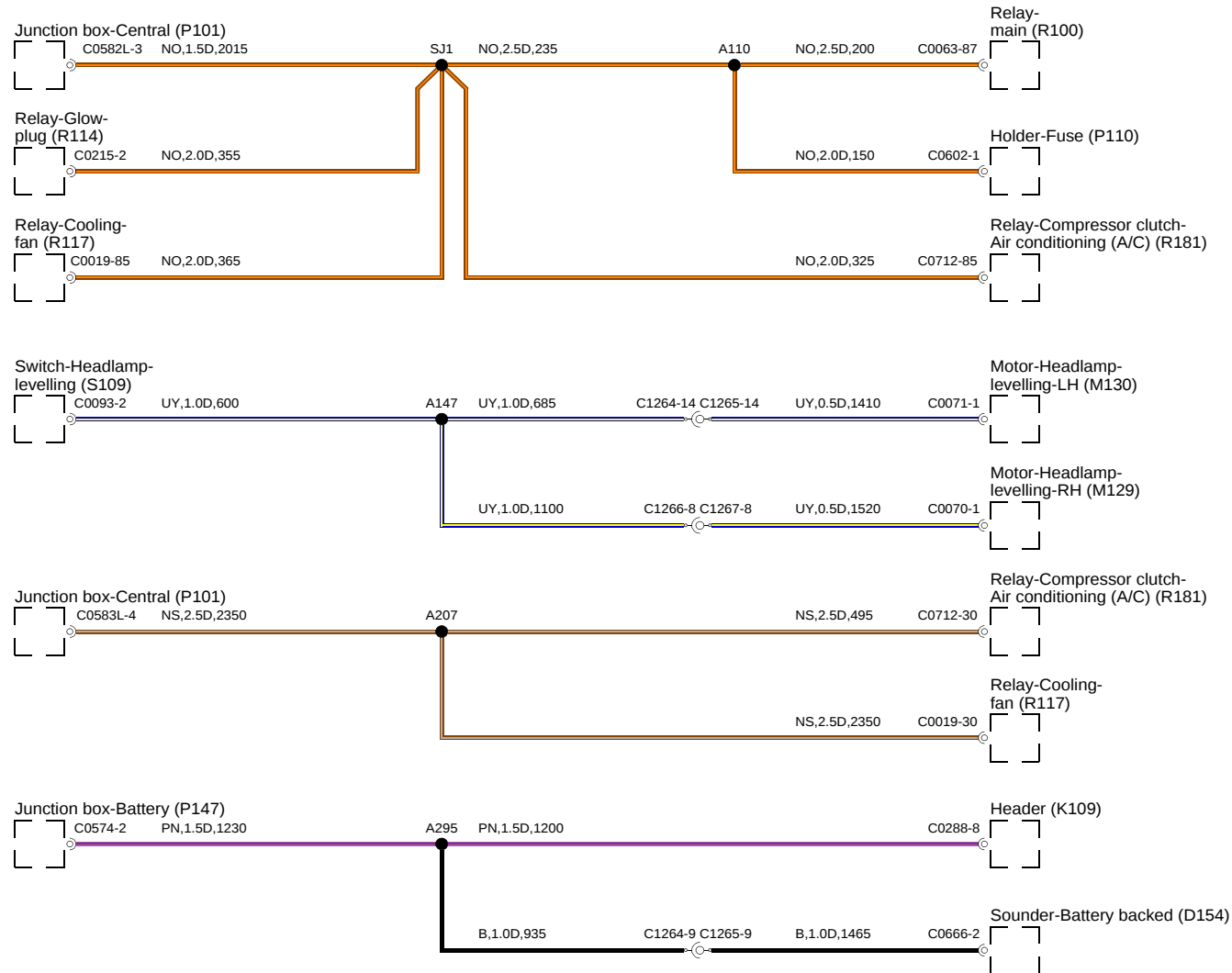


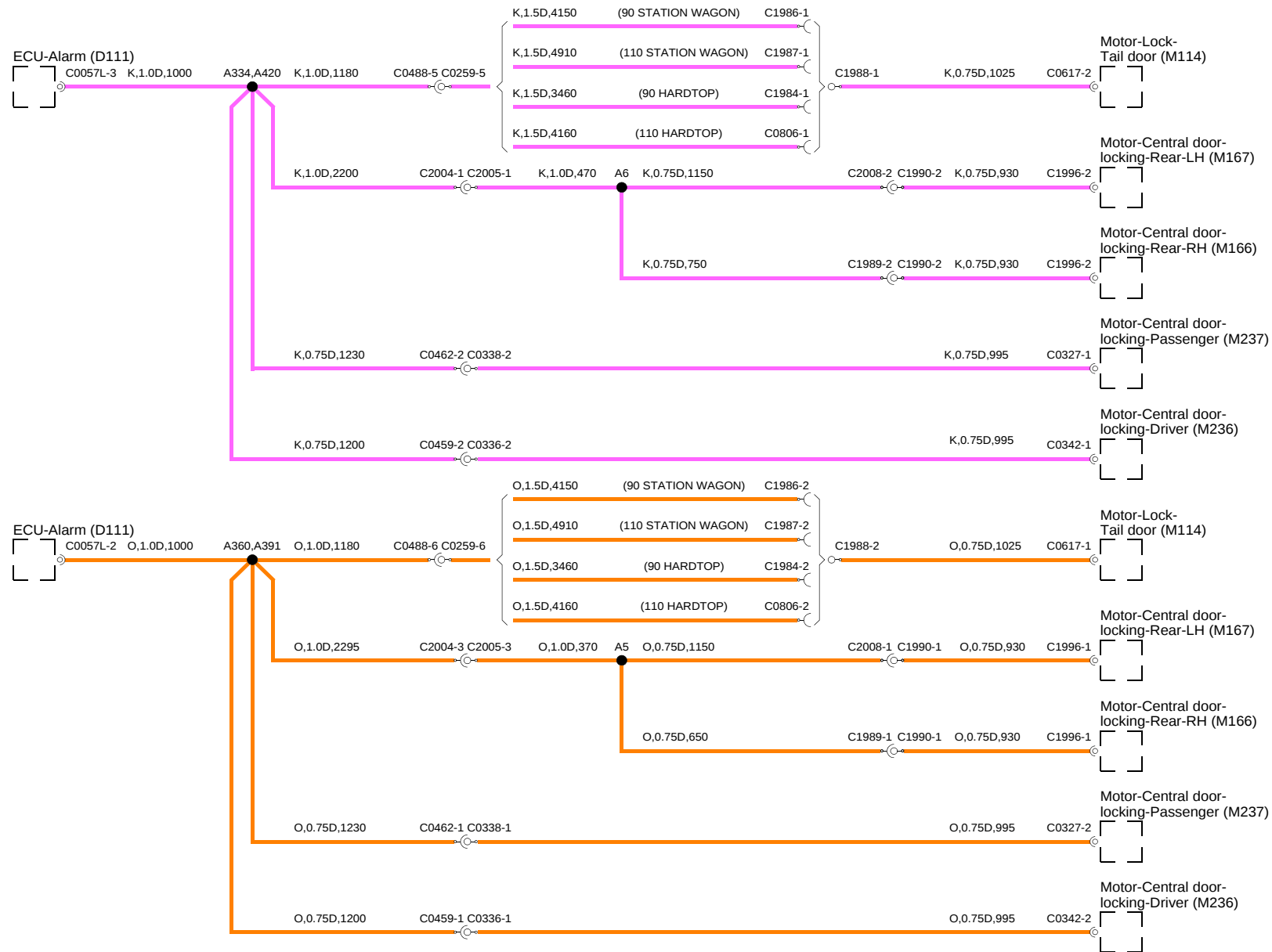


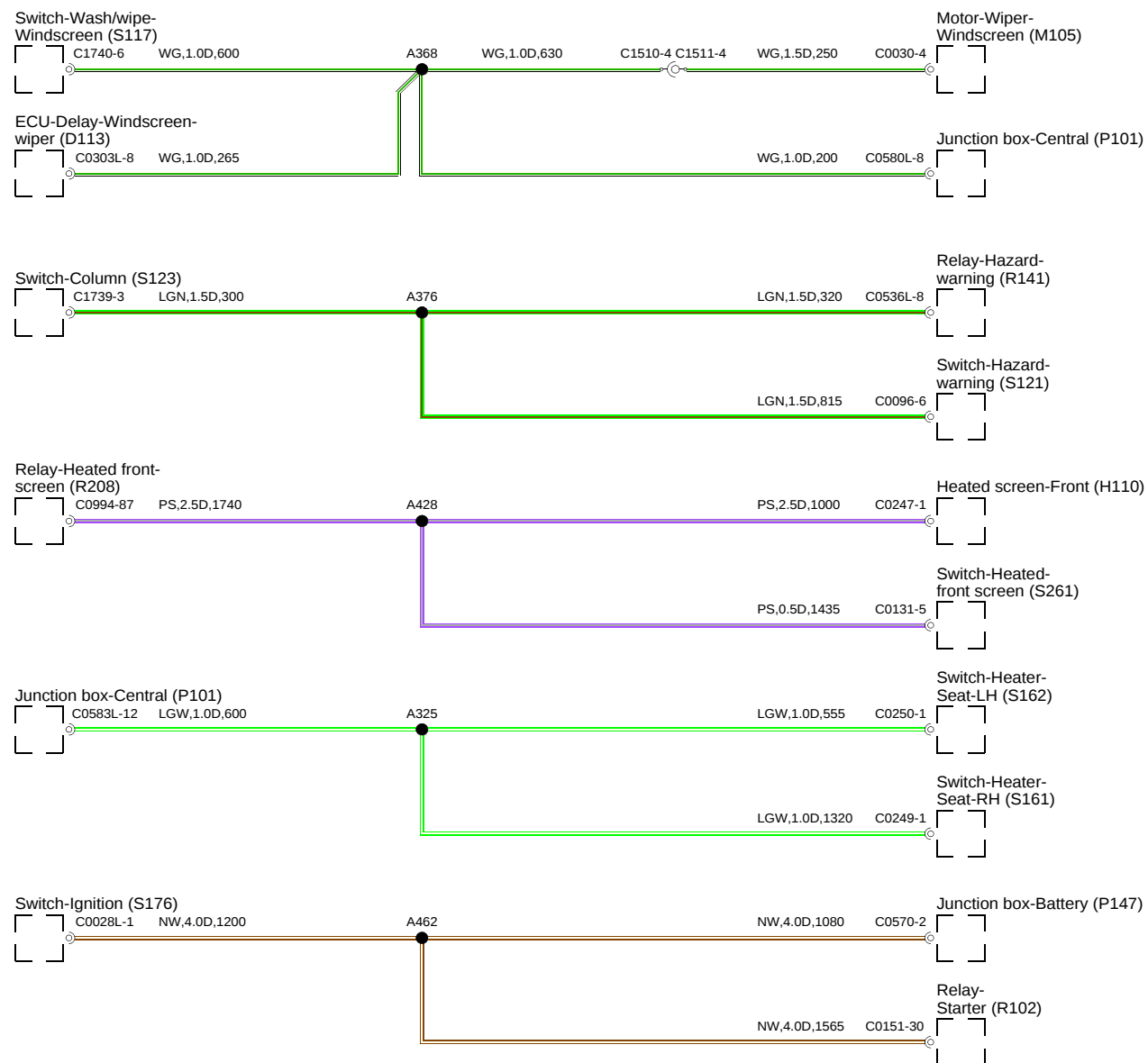


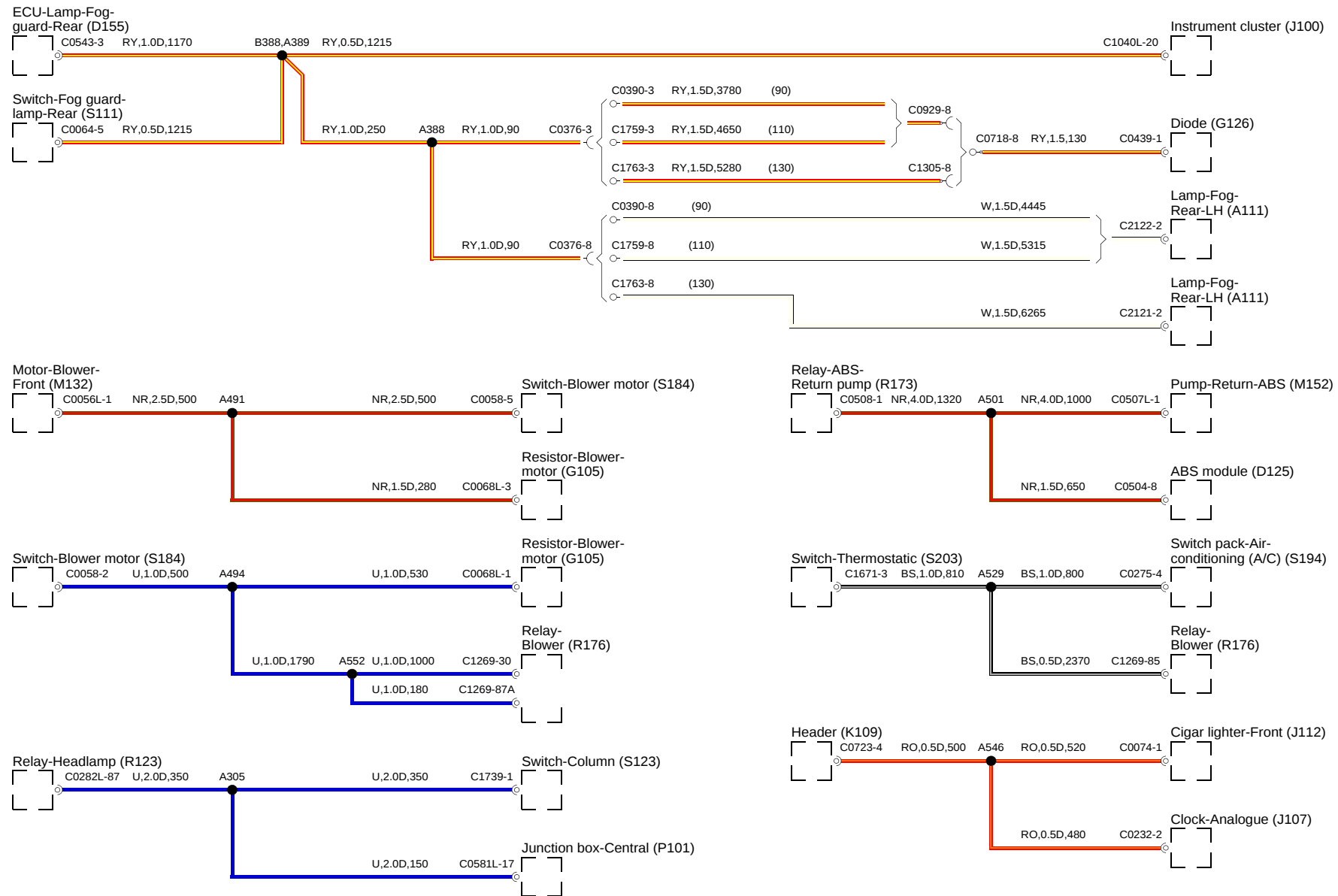


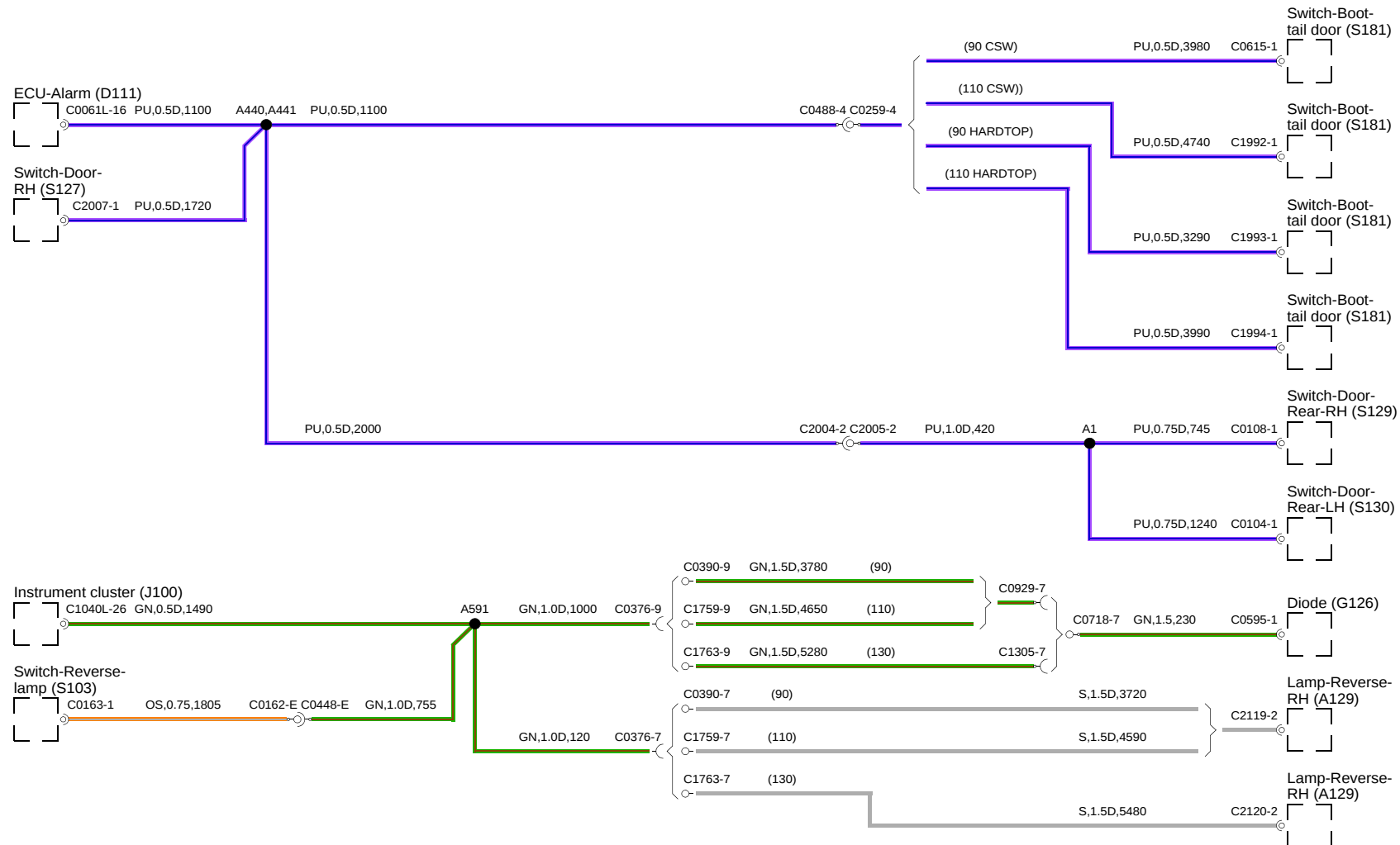


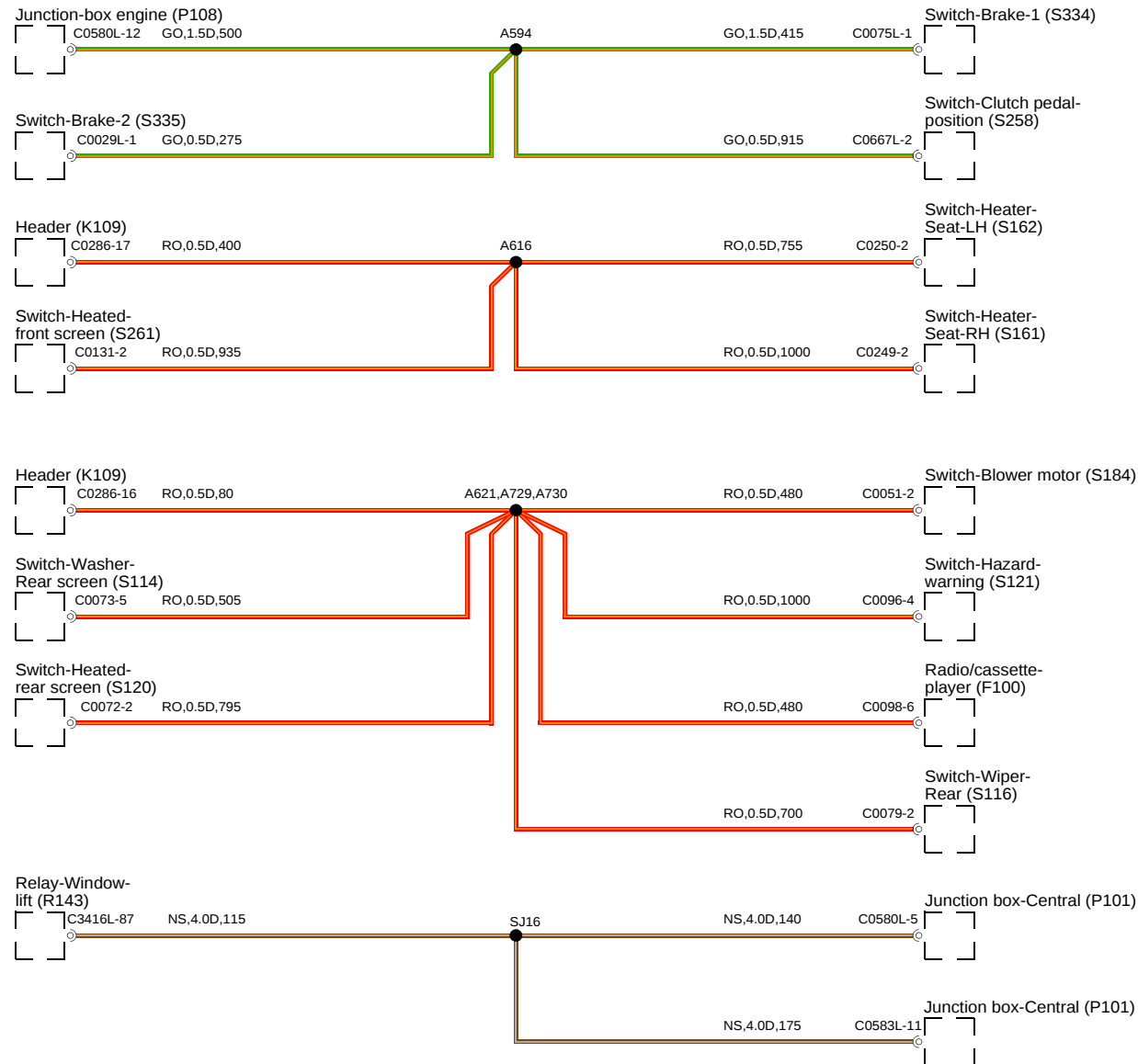


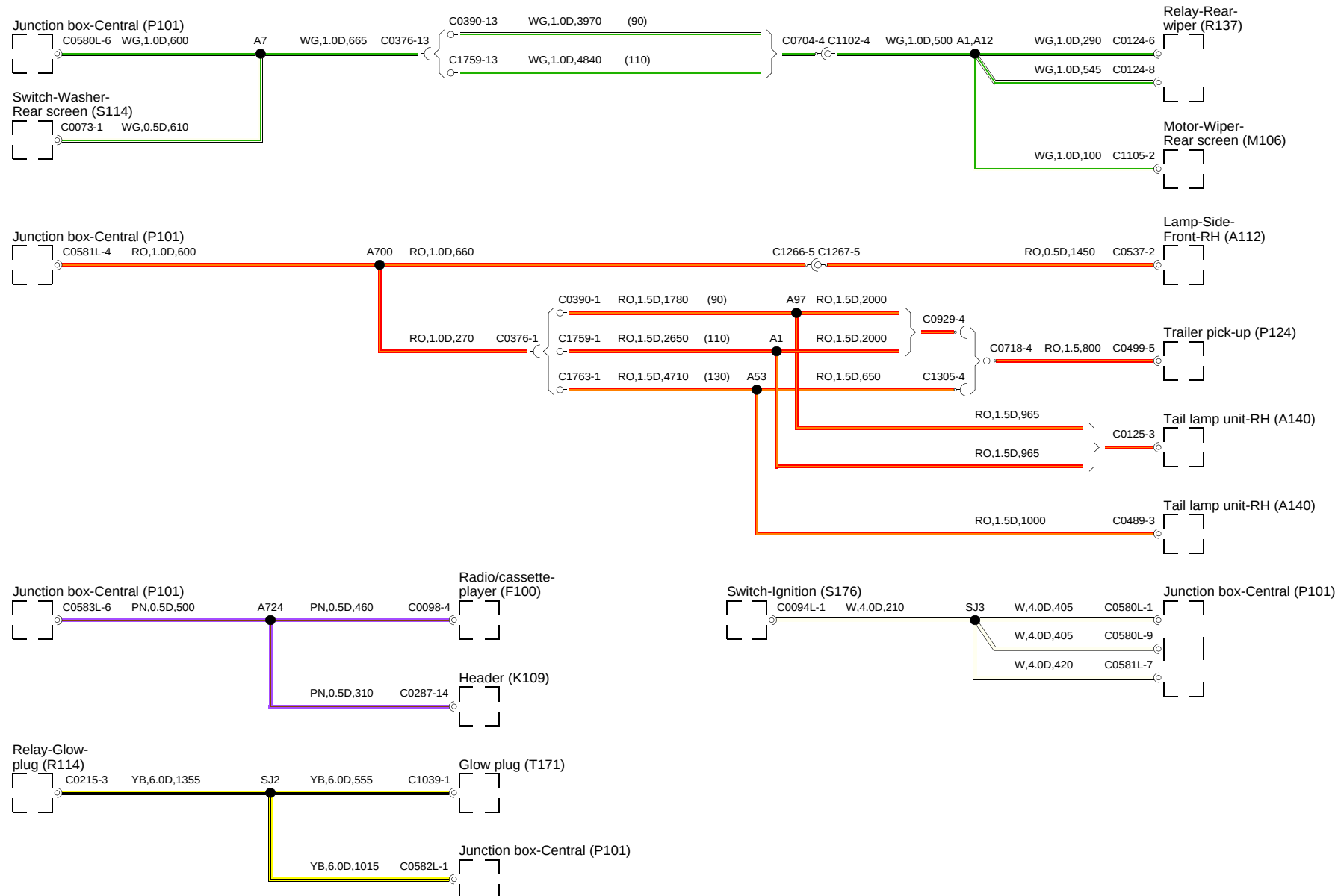


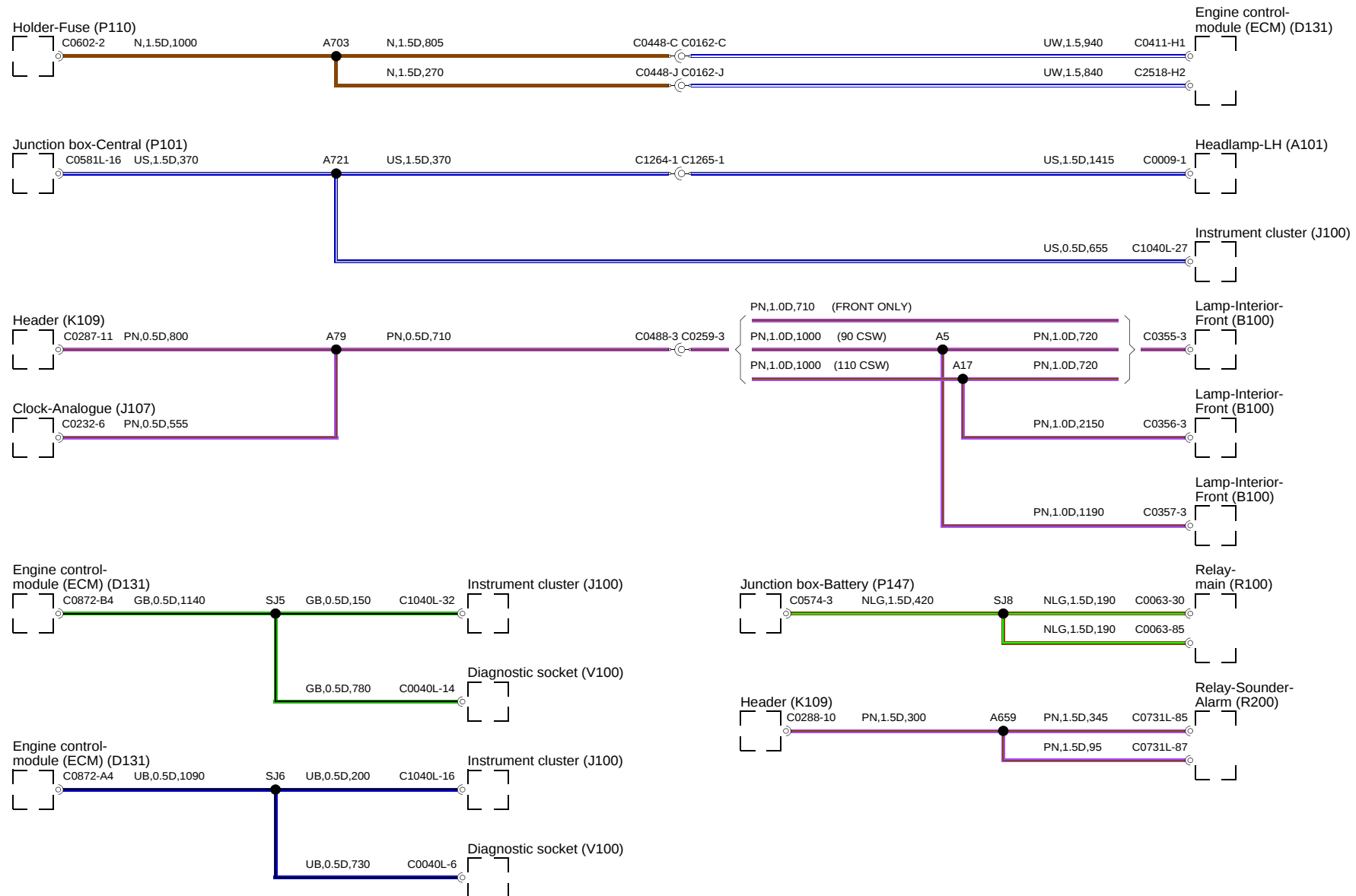


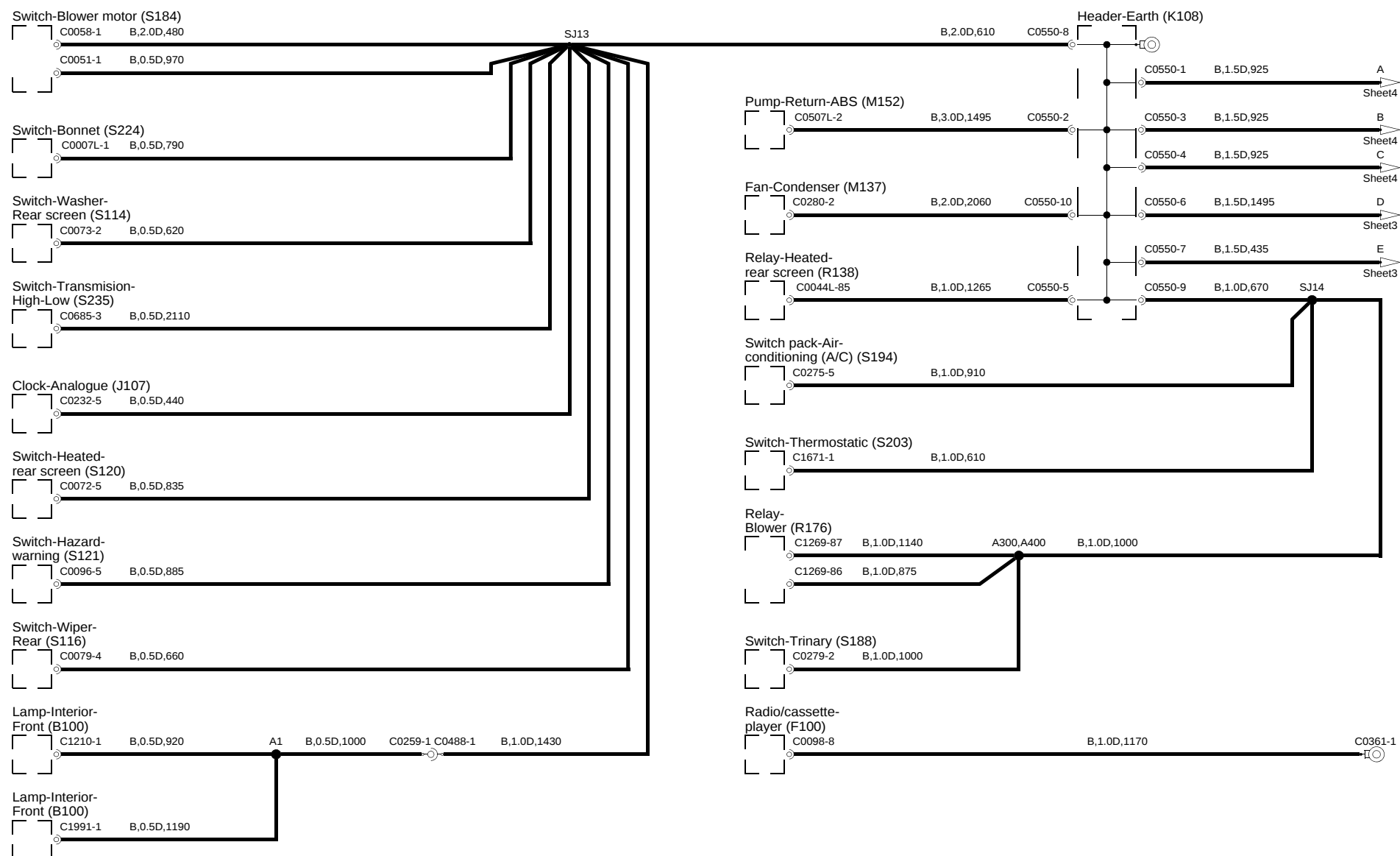


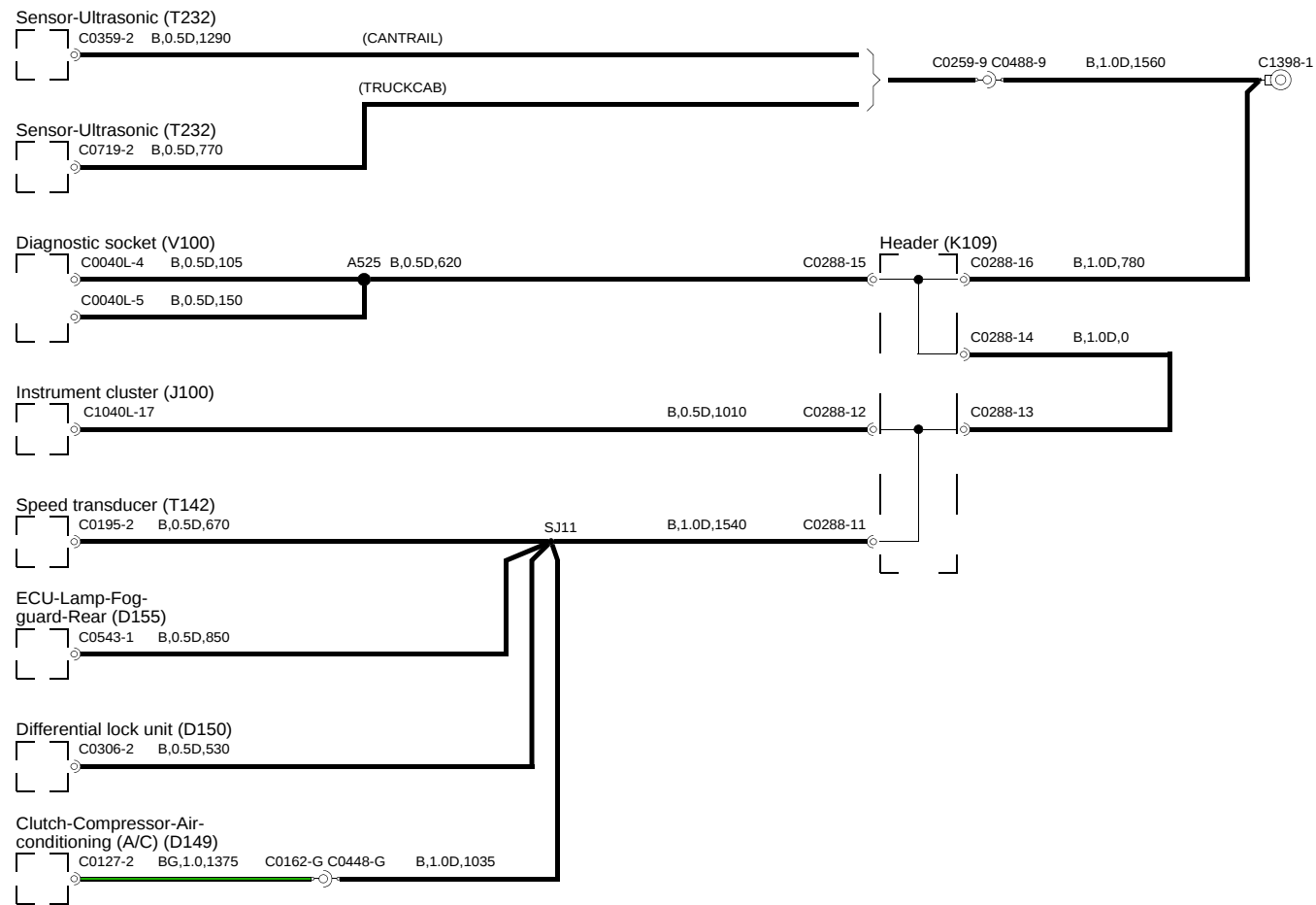


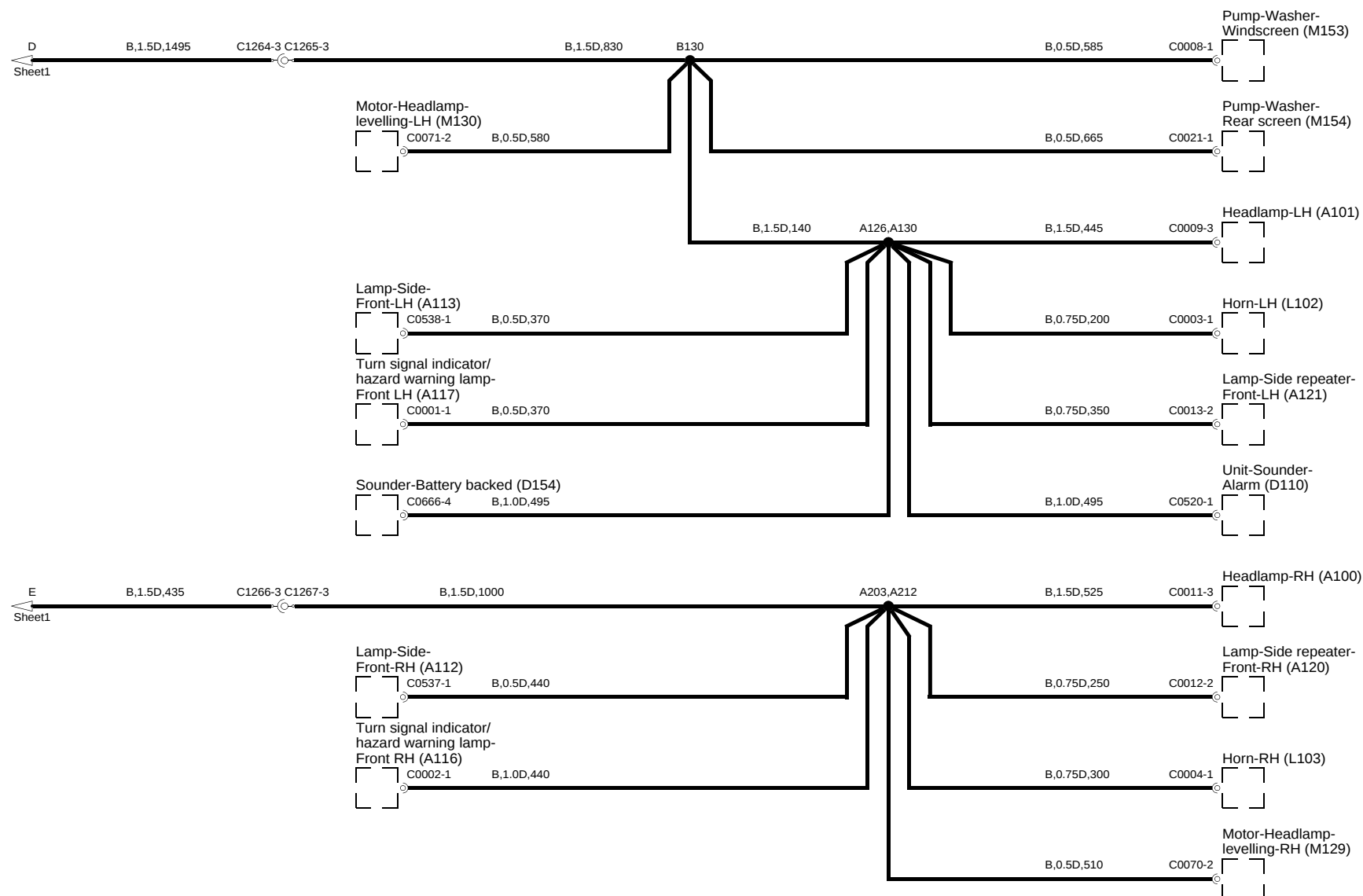


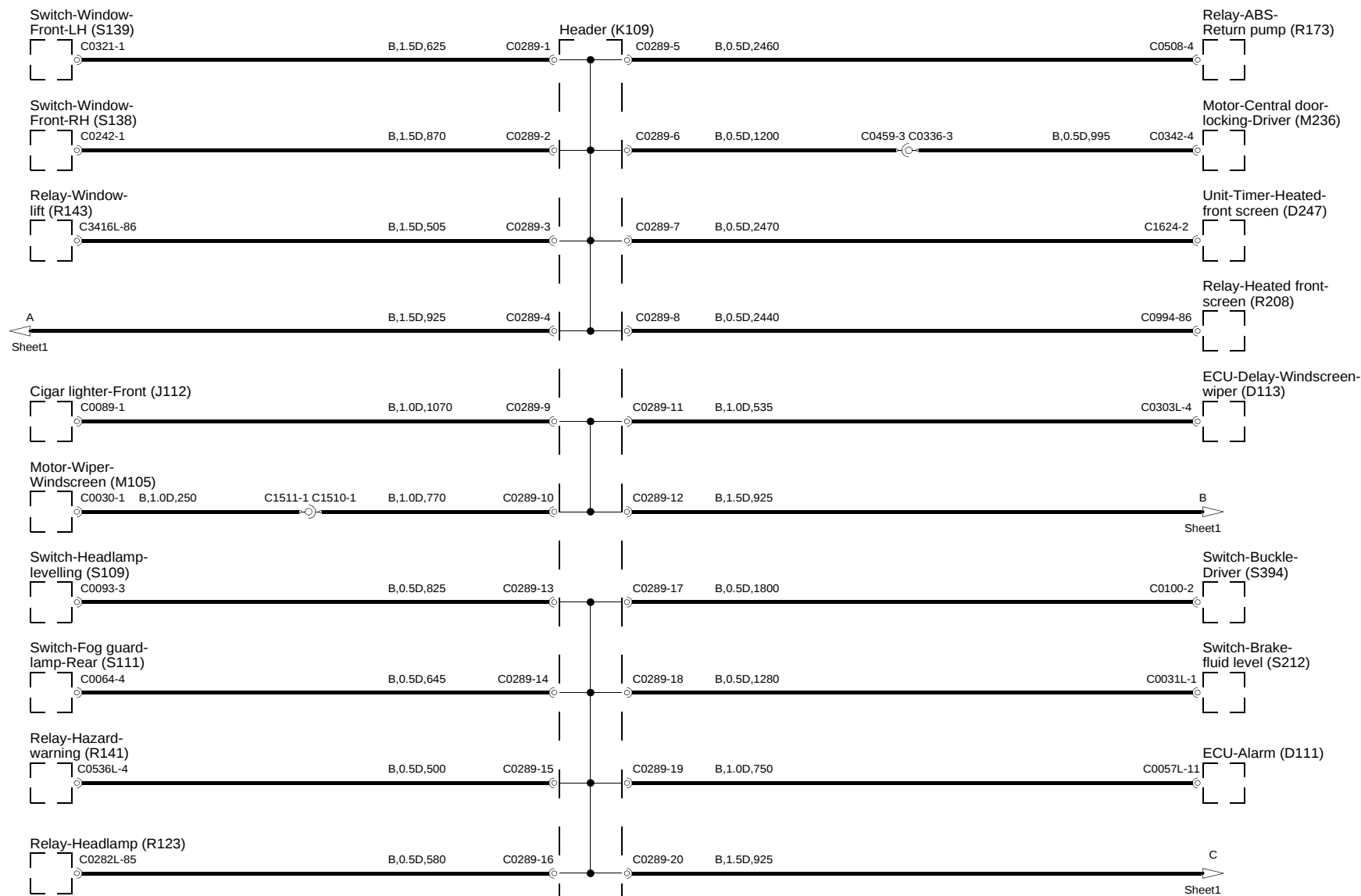


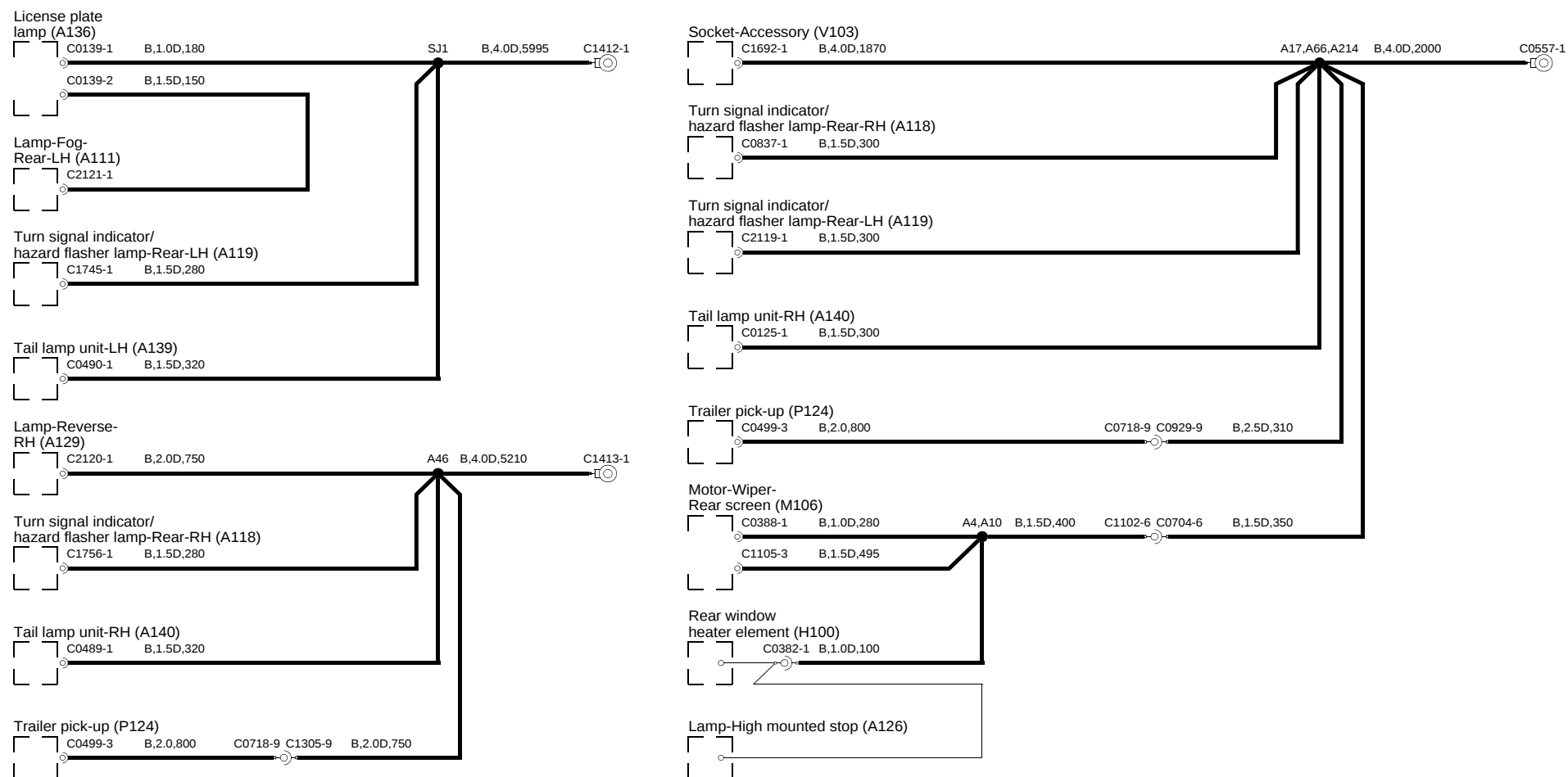


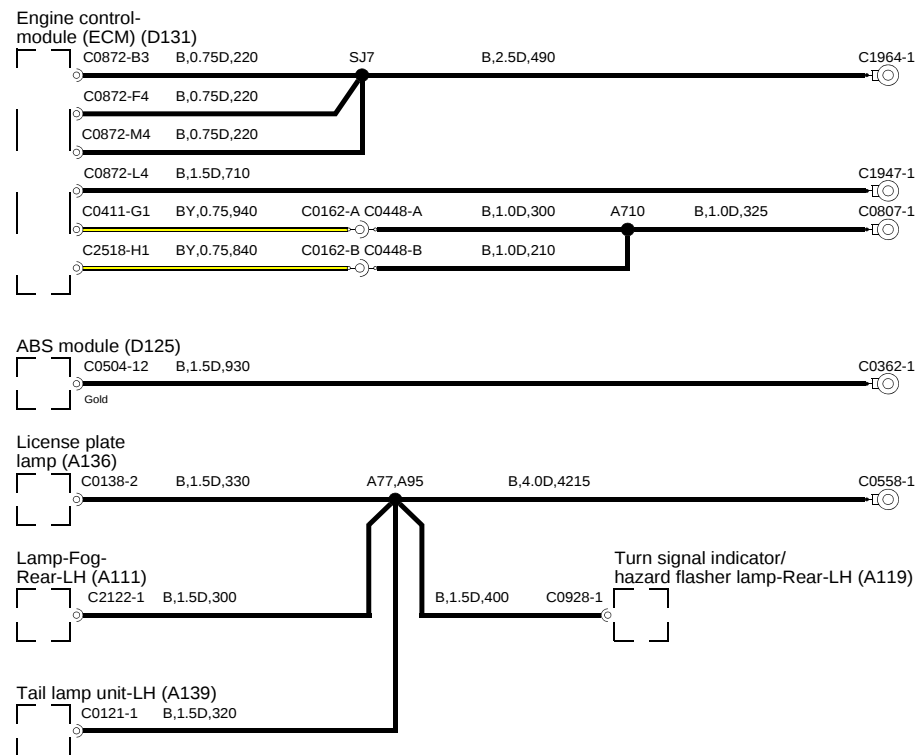
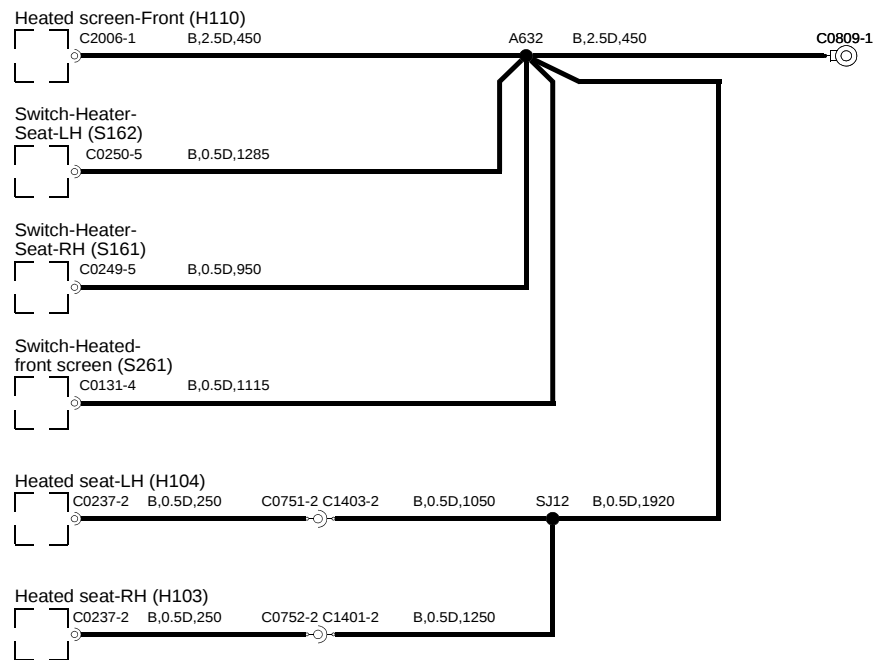


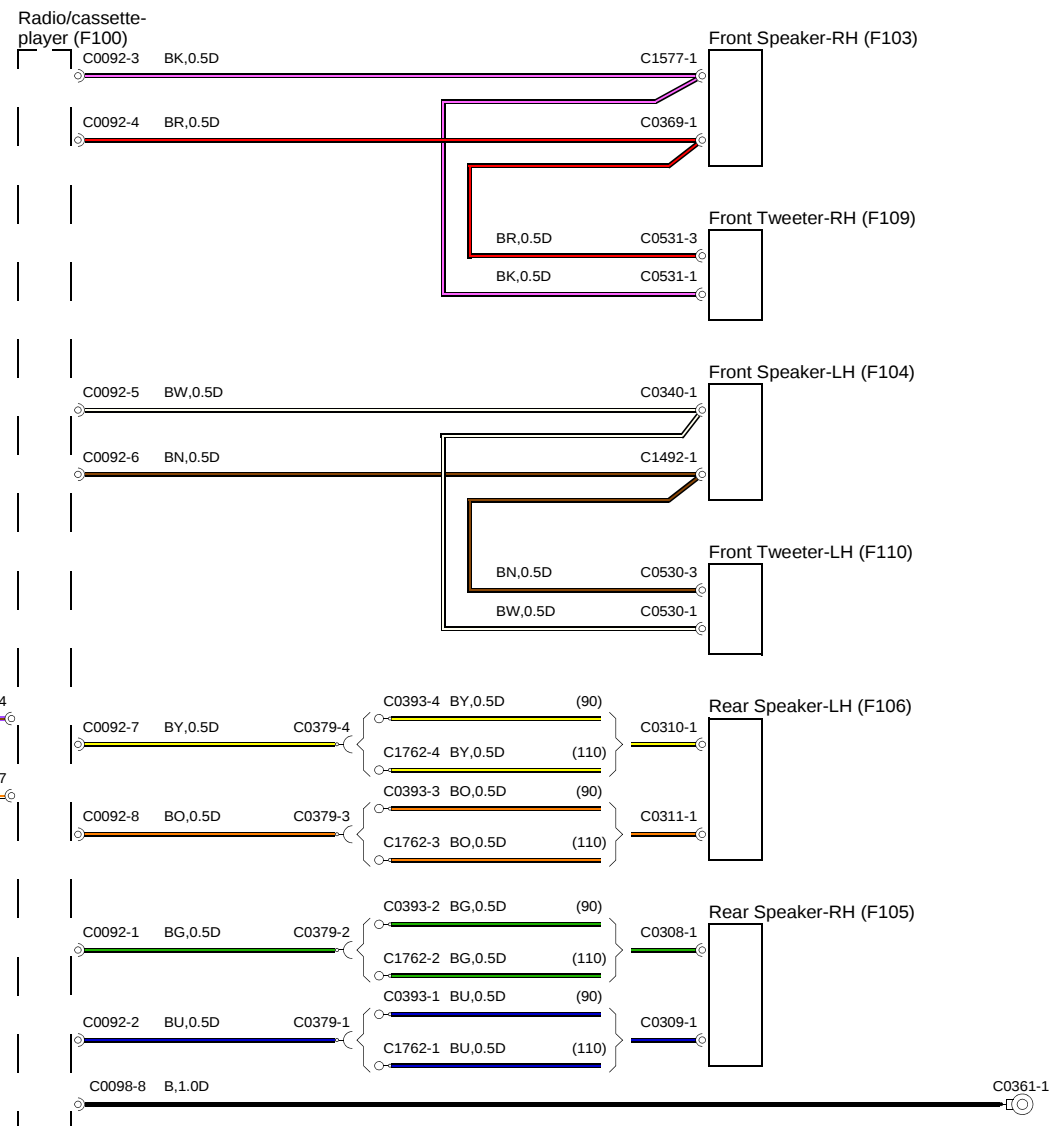
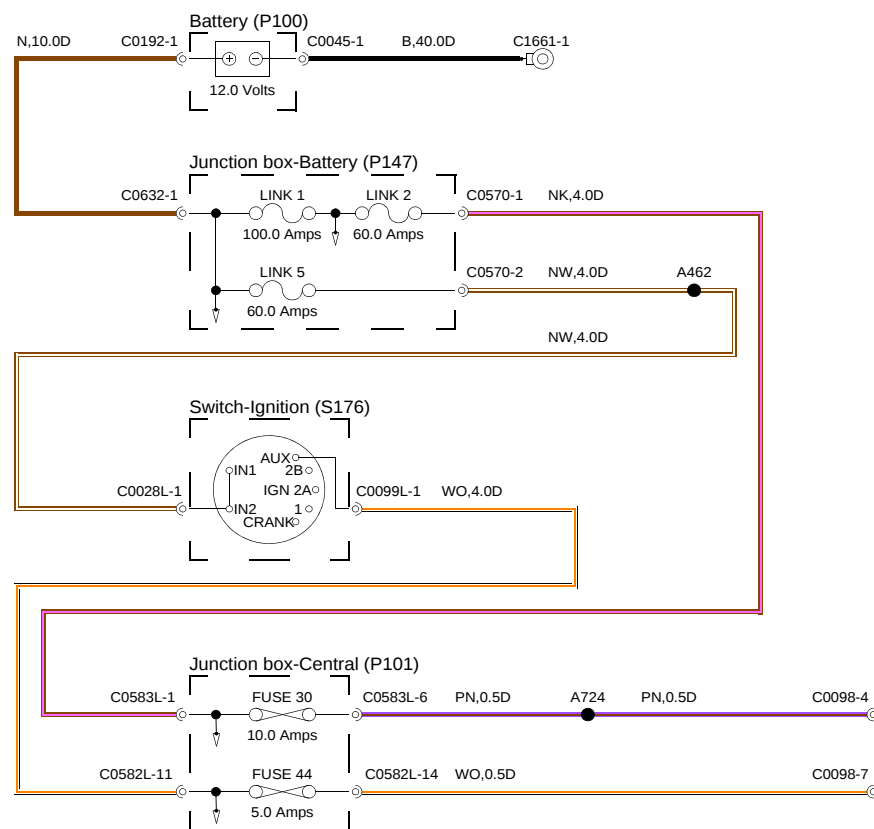


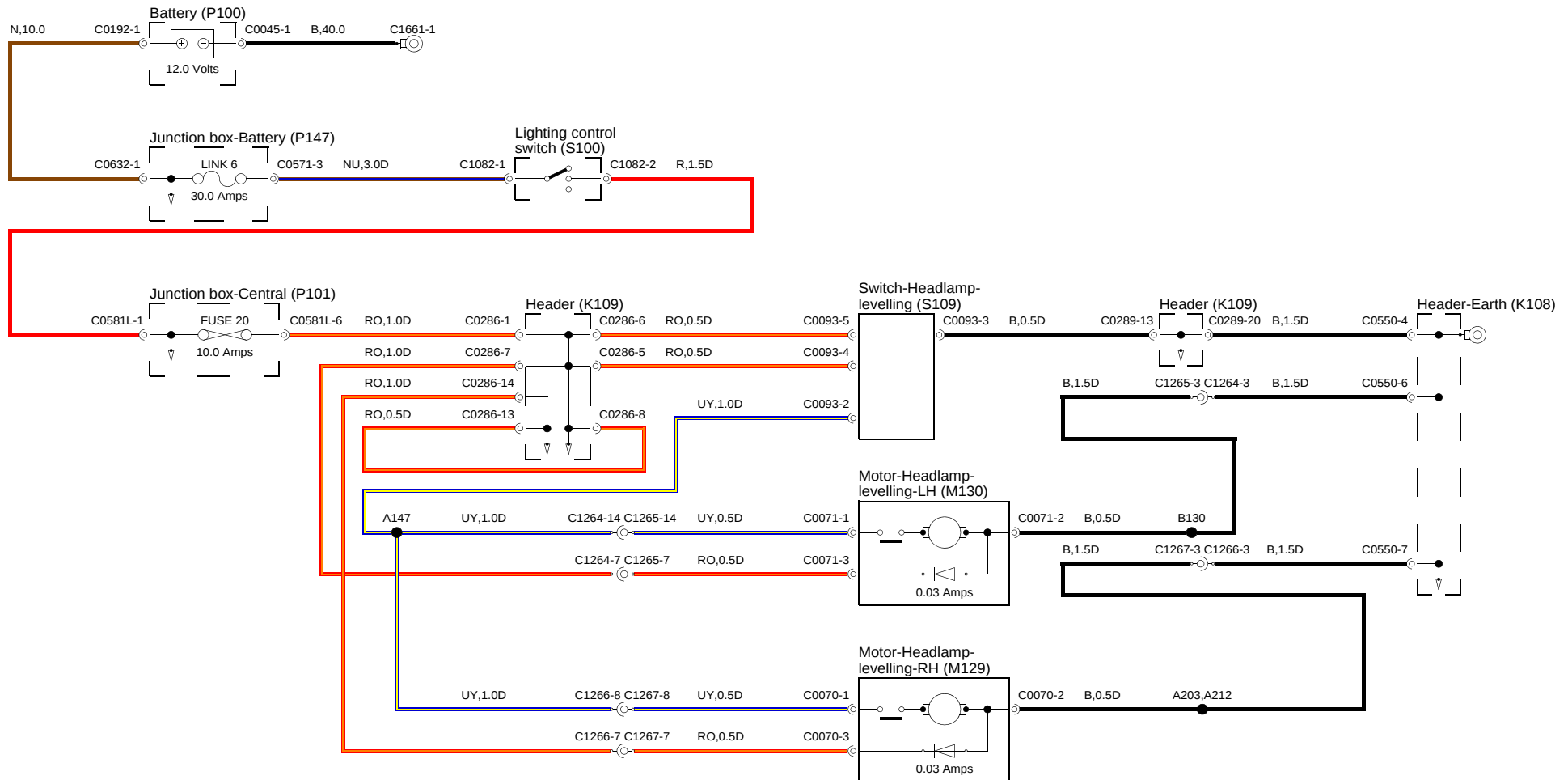


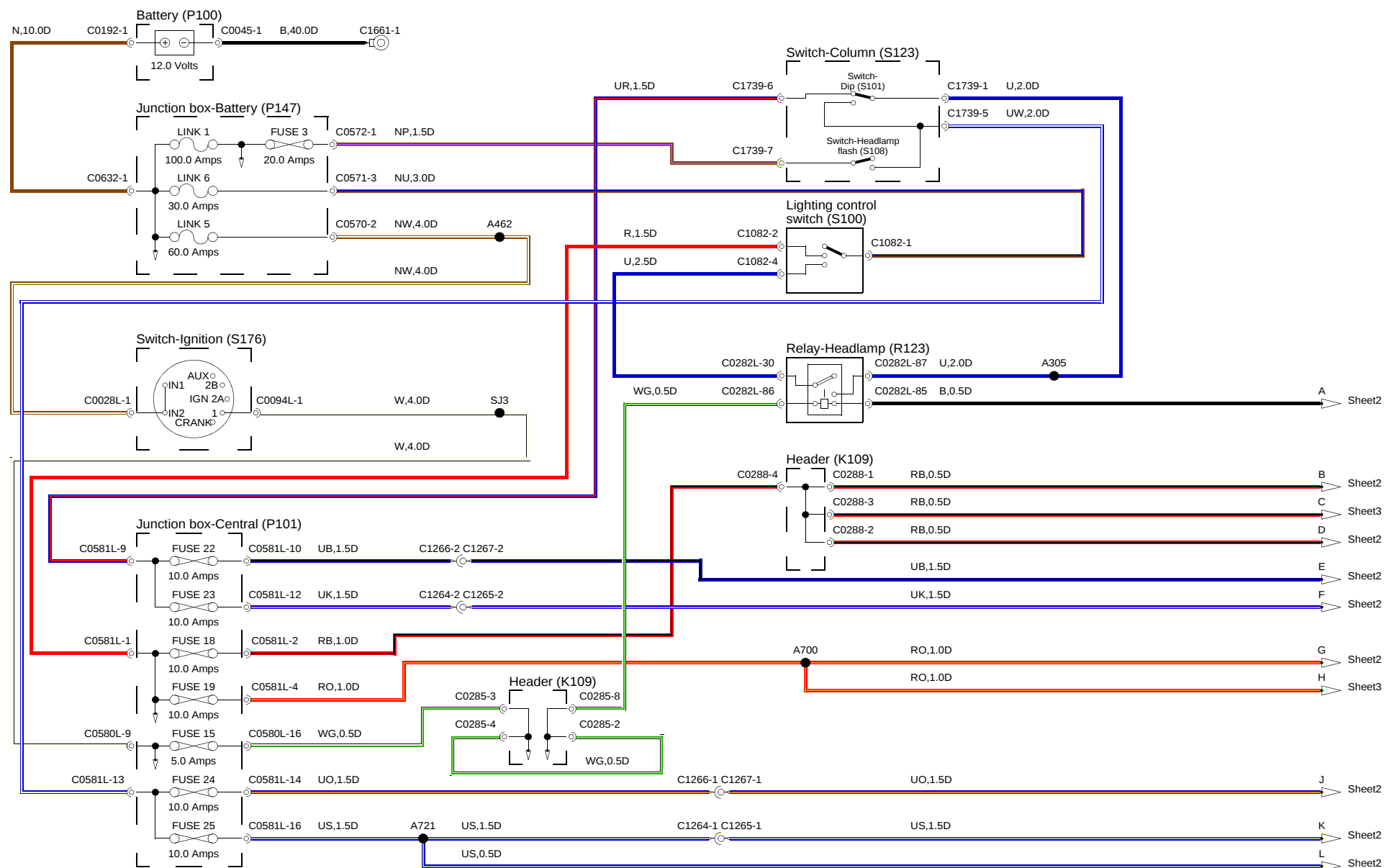


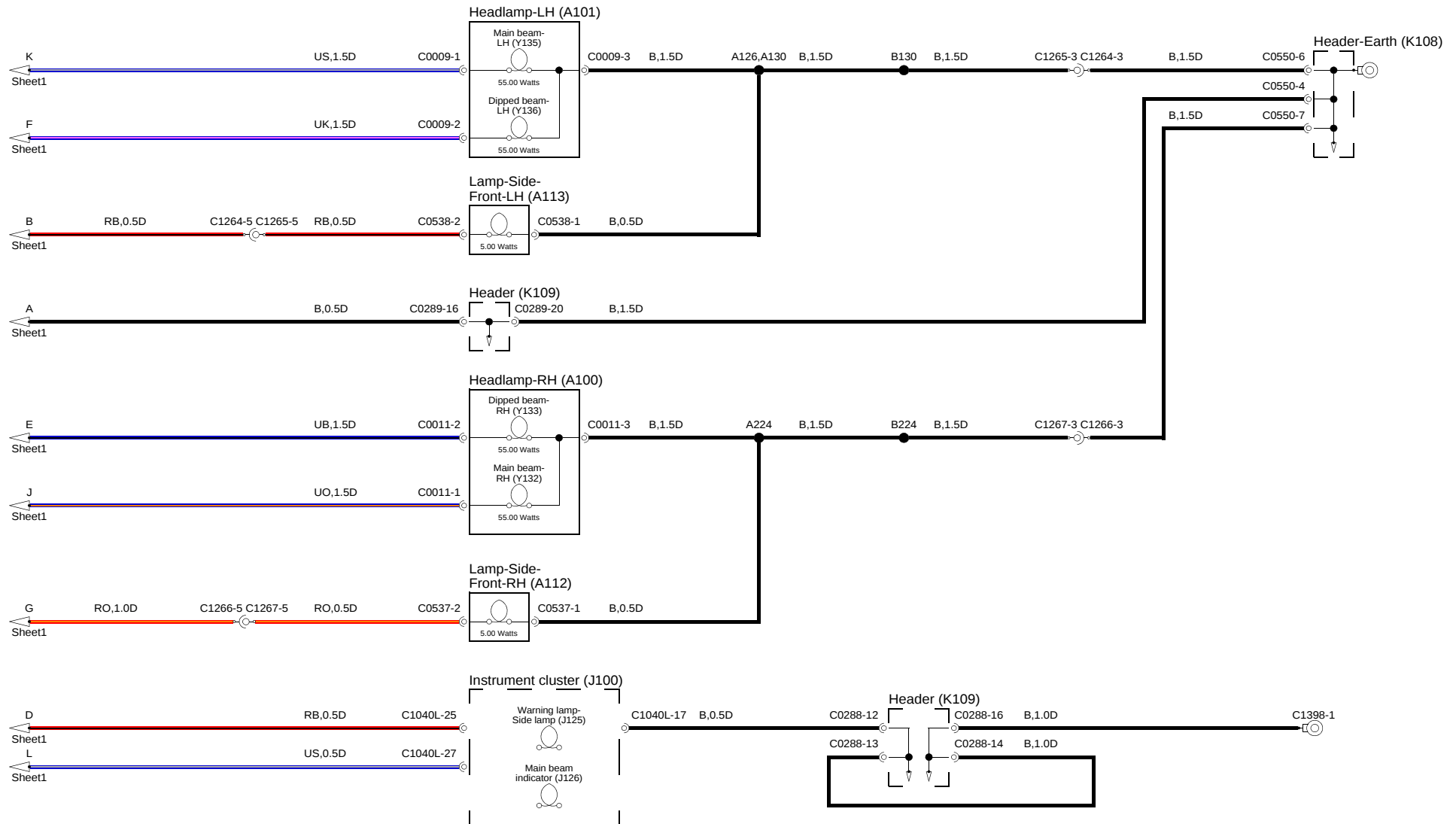


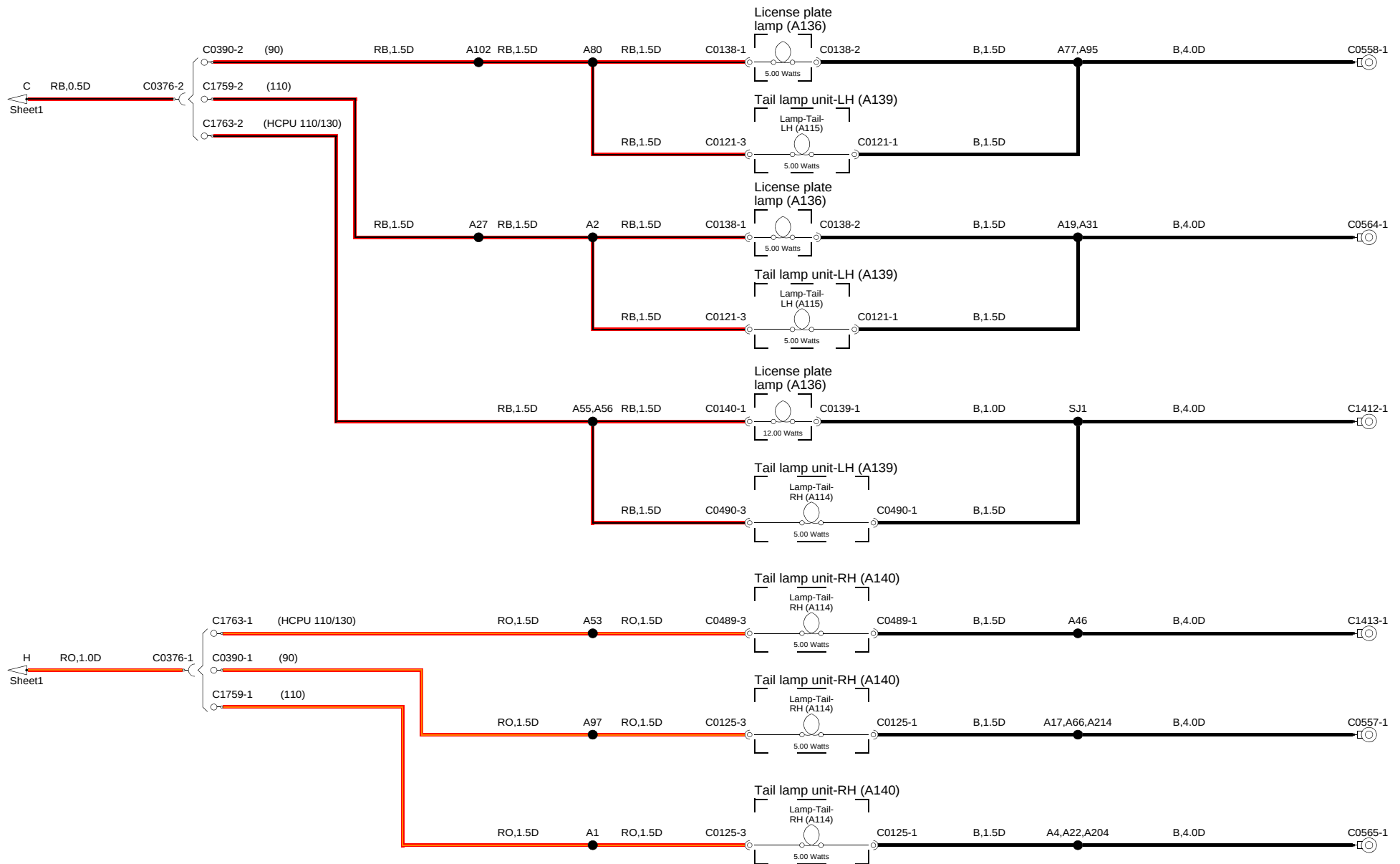


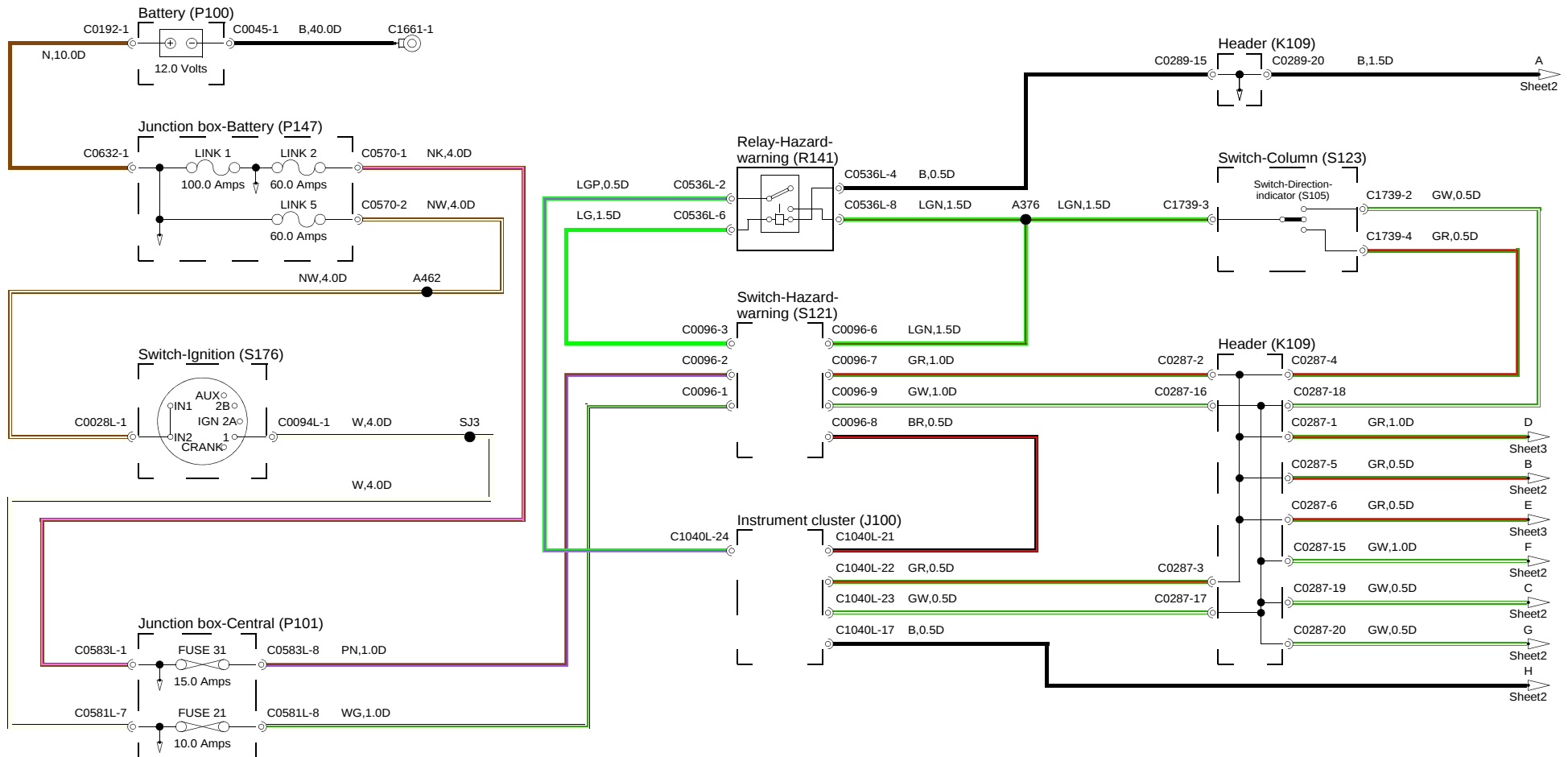


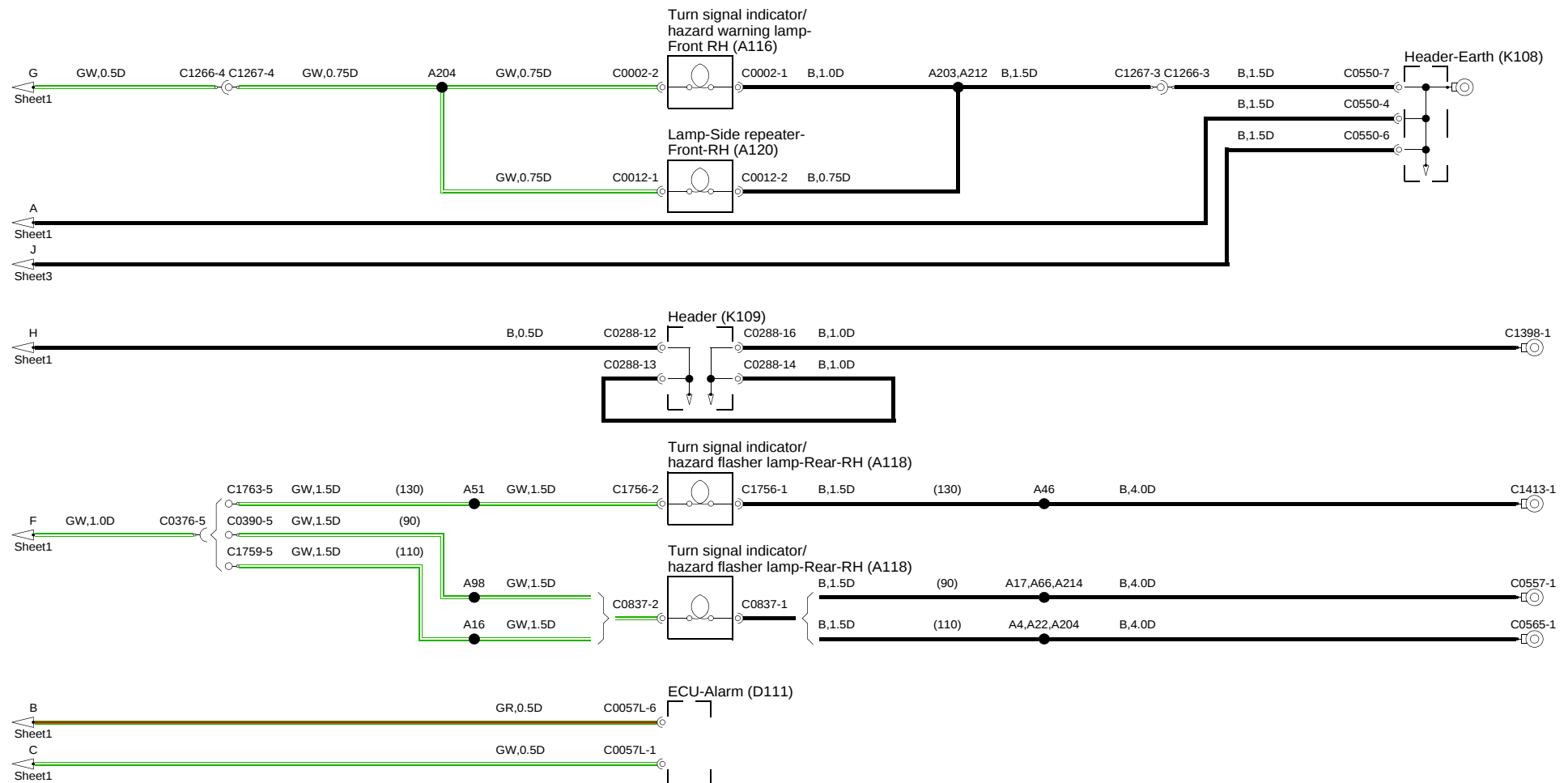


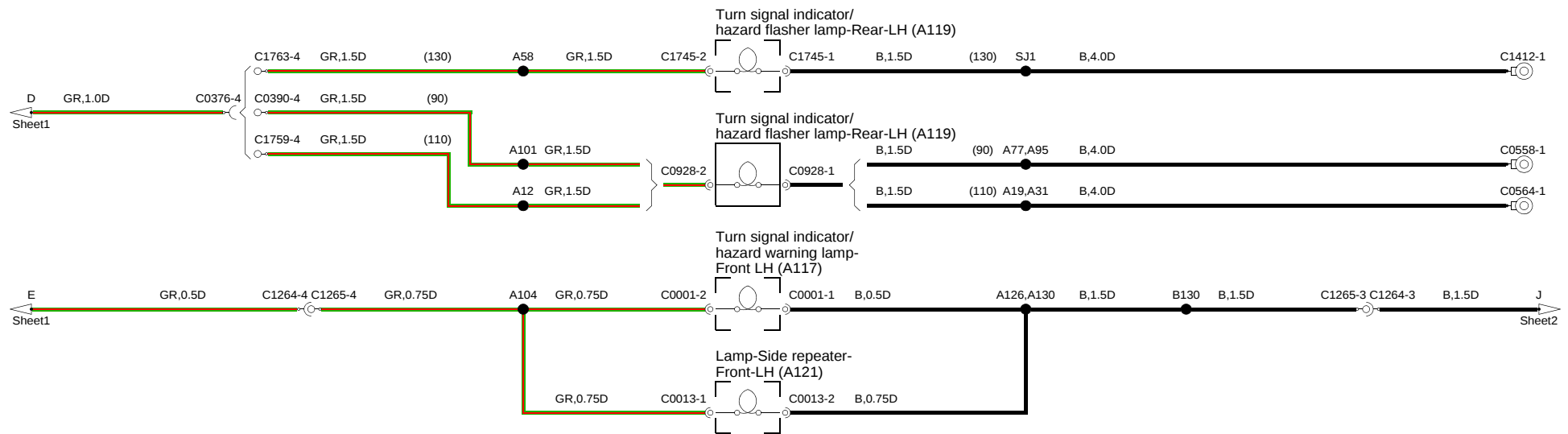


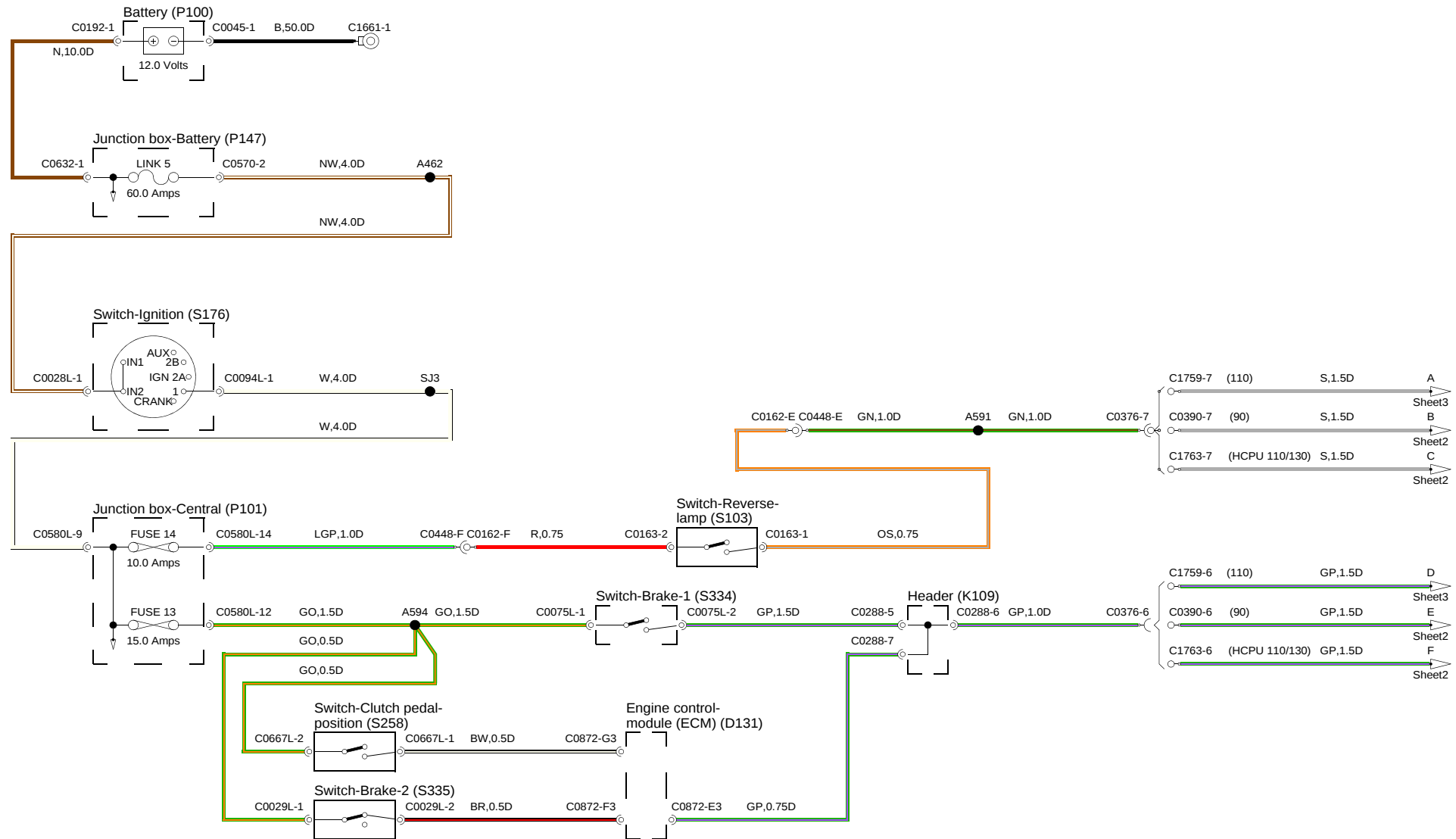


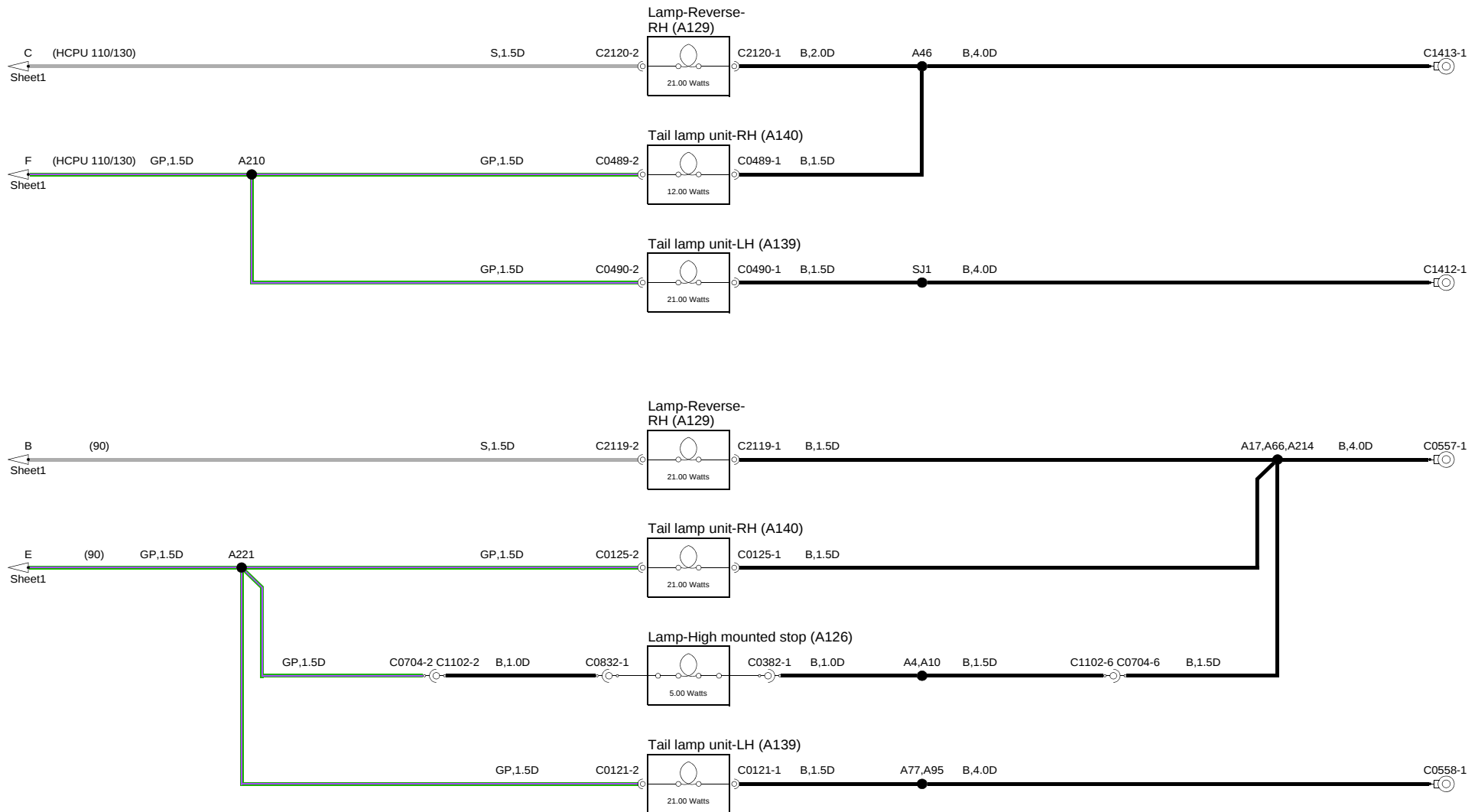


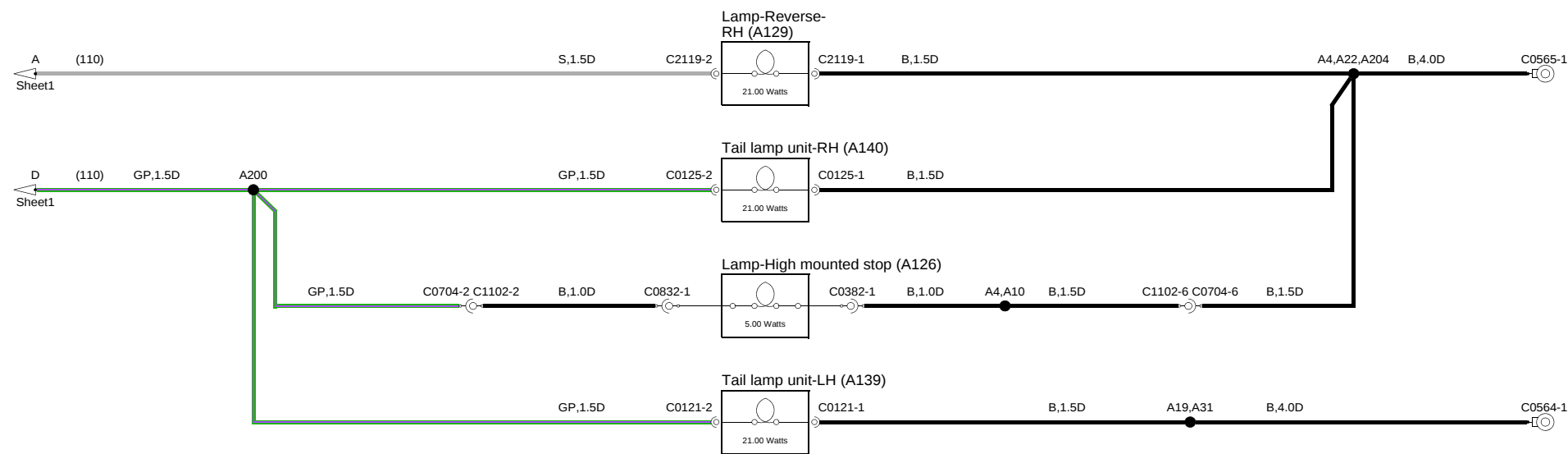


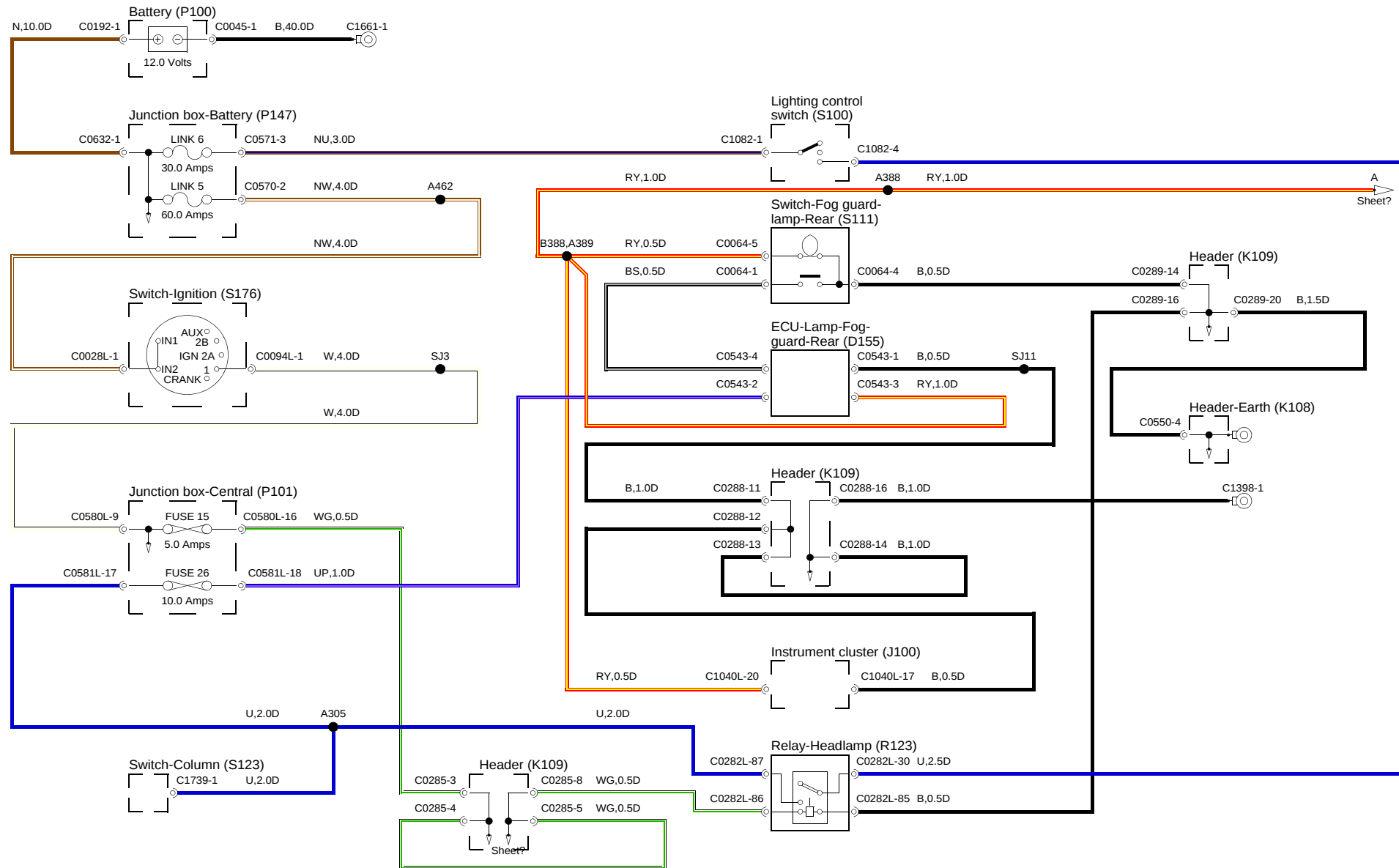


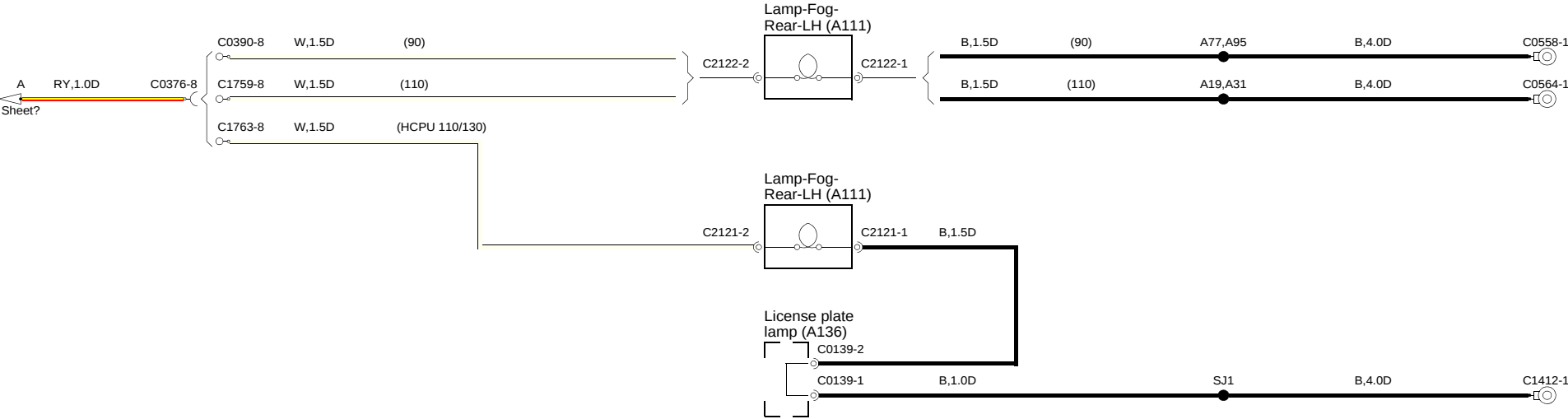


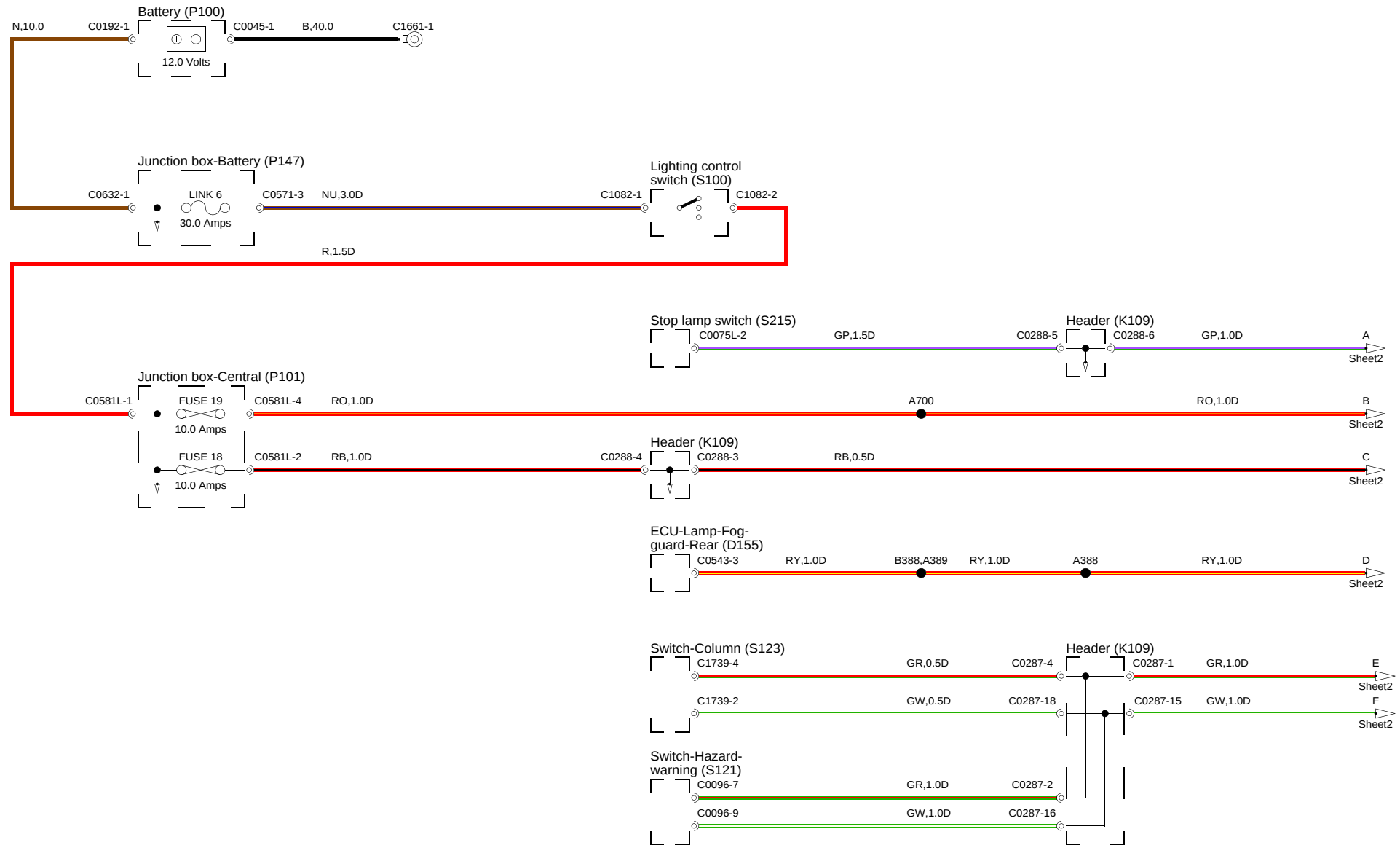


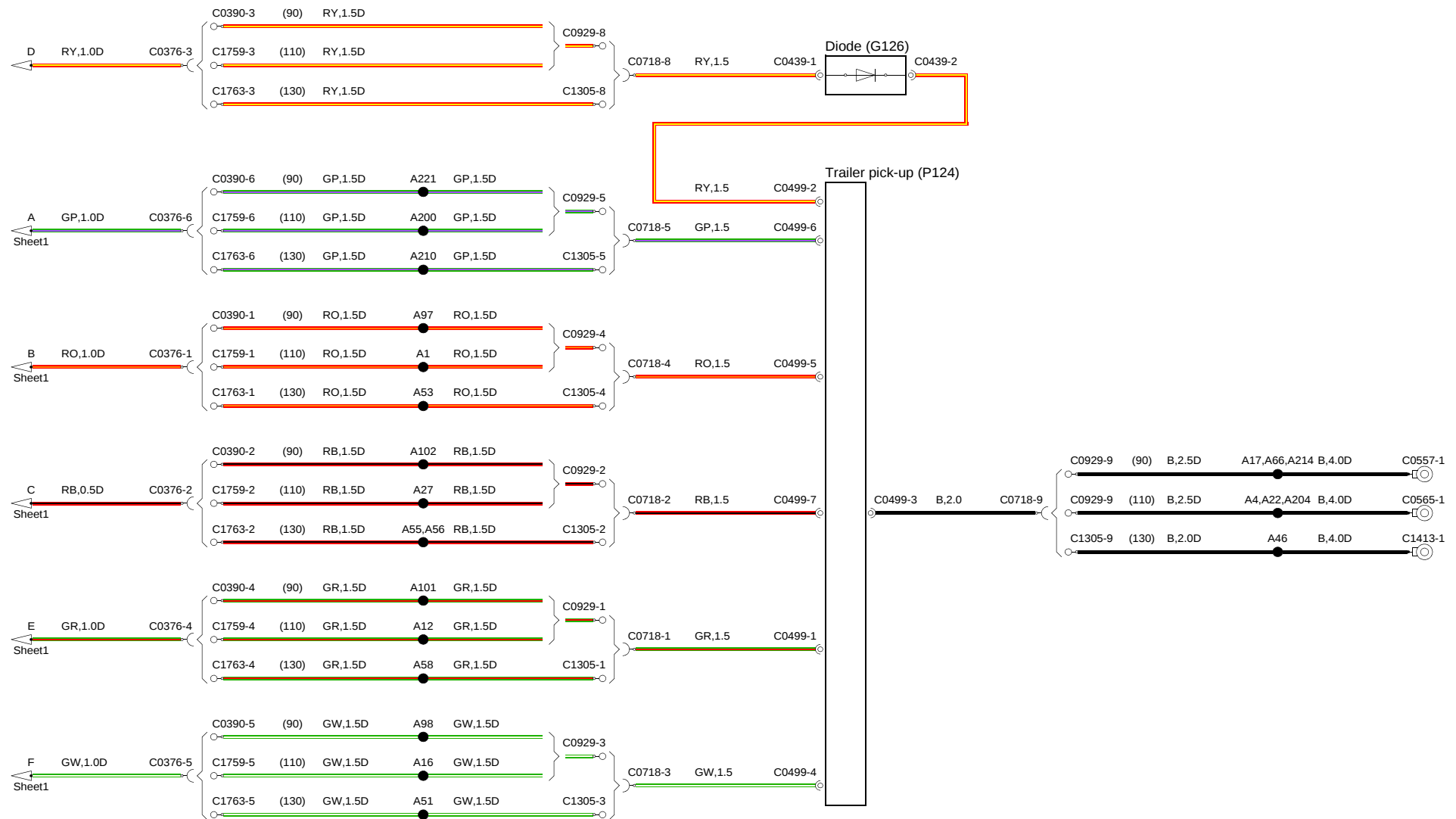












417-02 - INTERIOR LIGHTING

