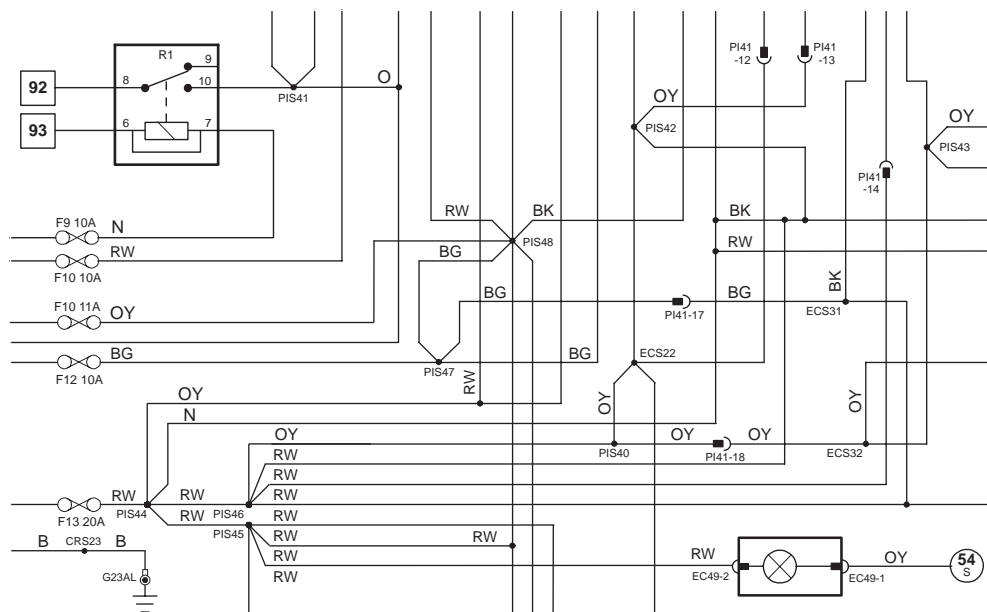




## Electrical Wiring Diagrams



## Freelander 2 - LR2

VIN: 000201 onwards



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# **Electrical Wiring Diagrams**

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## **Freelander 2 - LR2**

**VIN: 000102 onwards**

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Publication Part No. LRL 10 38 56 701, November 2006**

## **PREFACE**

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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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## ABBREVIATIONS

.....	7
<b>USING THIS PUBLICATION</b>	
Health and safety .....	8
Using this publication .....	8
Section numbering .....	9
Circuit sheet numbering .....	9
Understanding the circuit diagrams .....	9
<b>204-04 WHEELS AND TIRES</b>	
Tire pressure monitoring system .....	11
<b>205-02 REAR DRIVE AXLE AND DIFFERENTIAL</b>	
.....	12
<b>206-09 ANTI-LOCK CONTROL</b>	
.....	13
<b>211-04 STEERING COLUMN</b>	
Clock spring .....	15
<b>303-06 STARTING SYSTEM</b>	
Ignition .....	16
<b>307-01 AUTOMATIC TRANSMISSION</b>	
.....	17
<b>303-14 ELECTRONIC ENGINE CONTROLS</b>	
Petrol .....	18
Diesel .....	23
<b>412-01 CLIMATE CONTROL</b>	
Manual .....	28
Automatic .....	31
<b>412-02 AUXILIARY CLIMATE CONTROL</b>	
Windshield heater .....	34
Electric booster heater .....	35
Fuel fired booster heater .....	36
<b>413-06 HORN</b>	
.....	37
<b>413-00 INSTRUMENT CLUSTER AND PANEL ILLUMINATION</b>	
.....	38
<b>413-08 INFORMATION AND MESSAGE CENTRE</b>	
.....	39
<b>413-13 PARKING AID</b>	
.....	41
<b>414-01 BATTERY, MOUNTING AND CABLES</b>	
Battery junction box - P6 .....	43
Battery junction box - D4 .....	46
Auxiliary junction box .....	50
Central junction box .....	53
Ground distribution .....	59
<b>414-02 GENERATOR AND REGULATOR</b>	
Charging .....	64
<b>415-00 INFORMATION AND ENTERTAINMENT SYSTEM</b>	
Low-line .....	65
High line .....	67

---

<b>417-01 EXTERIOR LIGHTING</b>	
.....	72
Headlamps - high intensity discharge .....	76
Headlamps - adaptive front lighting system .....	80
Trailer socket .....	82
<b>417-02 INTERIOR LIGHTING</b>	
.....	83
<b>418-00 MODULE COMMUNICATIONS NETWORK</b>	
Diagnostic socket .....	85
.....	86
CAN bus - high speed .....	88
CAN bus - medium speed .....	89
<b>419-01 ANTI-THEFT SYSTEM</b>	
.....	90
<b>501-09 REAR VIEW MIRRORS</b>	
Electrochromic .....	92
Mirror Movement .....	93
<b>501-10 SEATING</b>	
Memory .....	94
Heated - front .....	96
<b>501-11 GLASS, FRAMES AND MECHANISMS</b>	
Window lift .....	97
<b>501-12 INSTRUMENT PANEL AND CONSOLE</b>	
Accessory socket .....	100
<b>501-14 HANDLES, LOCKS, LATCHES AND ENTRY SYSTEMS</b>	
Central locking system .....	101
<b>501-16 WIPERS AND WASHERS</b>	
.....	105
<b>501-17 ROOF OPENING PANEL</b>	
.....	107
<b>501-20 SUPPLEMENTAL RESTRAINT SYSTEM</b>	
.....	108

Abbreviation	Description
ABS	Anti-lock braking system
AFS	Adaptive front lighting system
AUTO	Automatic transmission
CAN	Controller area network
DSC	Dynamic stability control
D4	Diesel engine - Straight-four
DV6	Diesel engine - V6
DV8	Diesel engine - V8
EGR	Exhaust gas recirculation
FET	Field effect transistor
GPS	Global positioning system
HS CAN	High speed controller area network bus
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
MS CAN	Medium speed controller area network bus
NAS	North American specification
PDC	Park distance control
RH	Right-hand
TPMS	Tire pressure monitoring system
TSD	Touch screen display

# USING THIS PUBLICATION

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## **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.

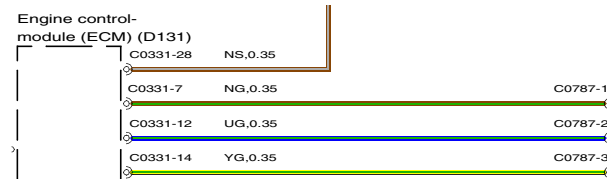
**Note:** Where circuit diagrams show more than one sub-system, the circuit will be located in the section that carries the first-named sub-system, for example: Starting and Charging will be located under section 303-06 Starting System, since 'Starting' is the first-named sub-system.

## 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.

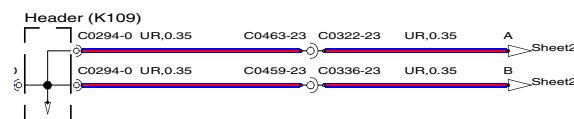
### Wire length (Power and Ground Distribution only)

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.

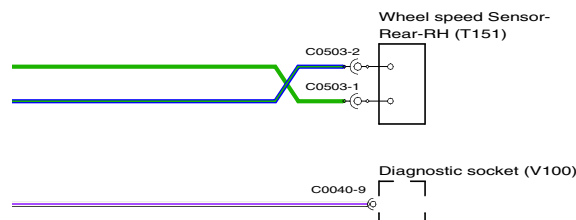
### Line Types



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.



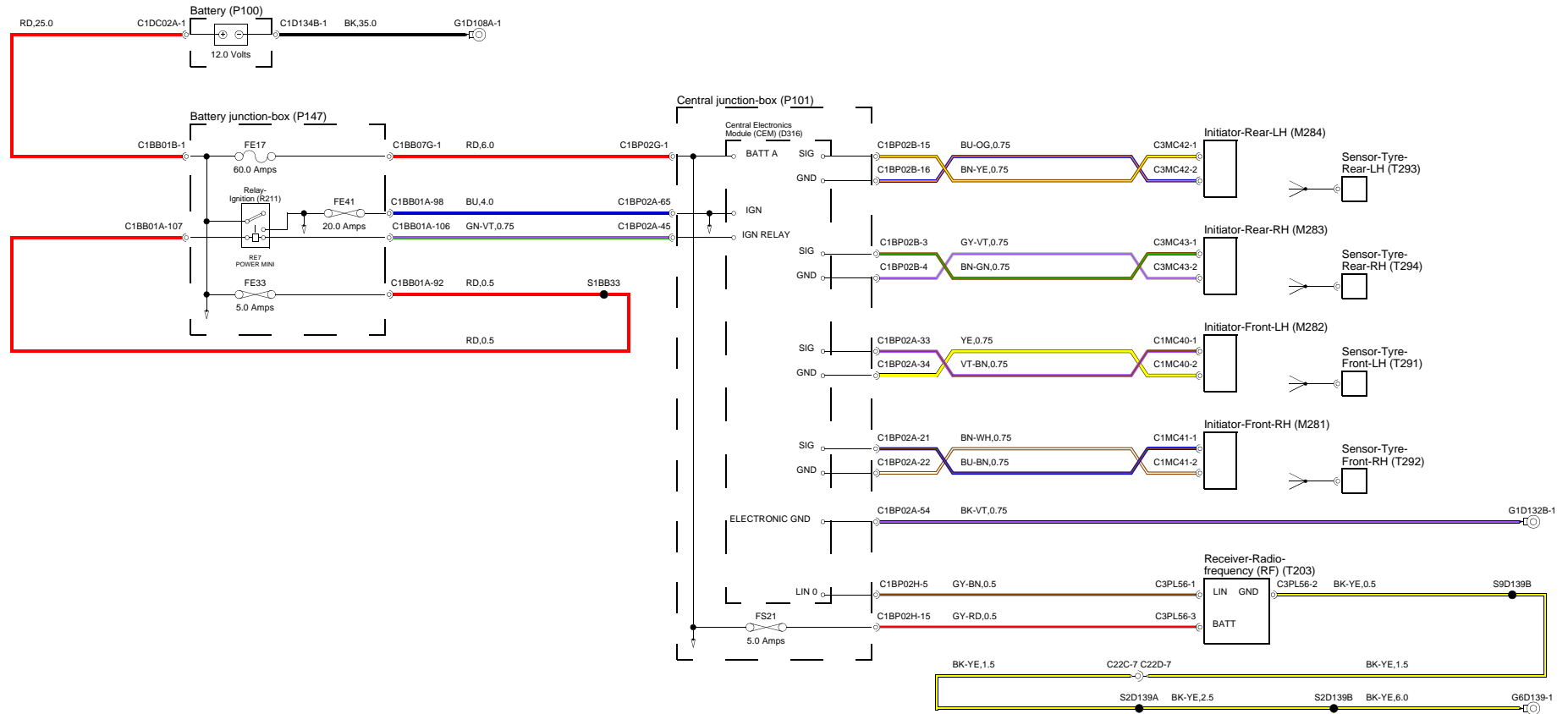
The cup and ball symbol represents the male and female halves of connector. Most connectors plug directly into a component but some are wired directly to the component using a 'flylead' as with C503 above.

**Ground points**

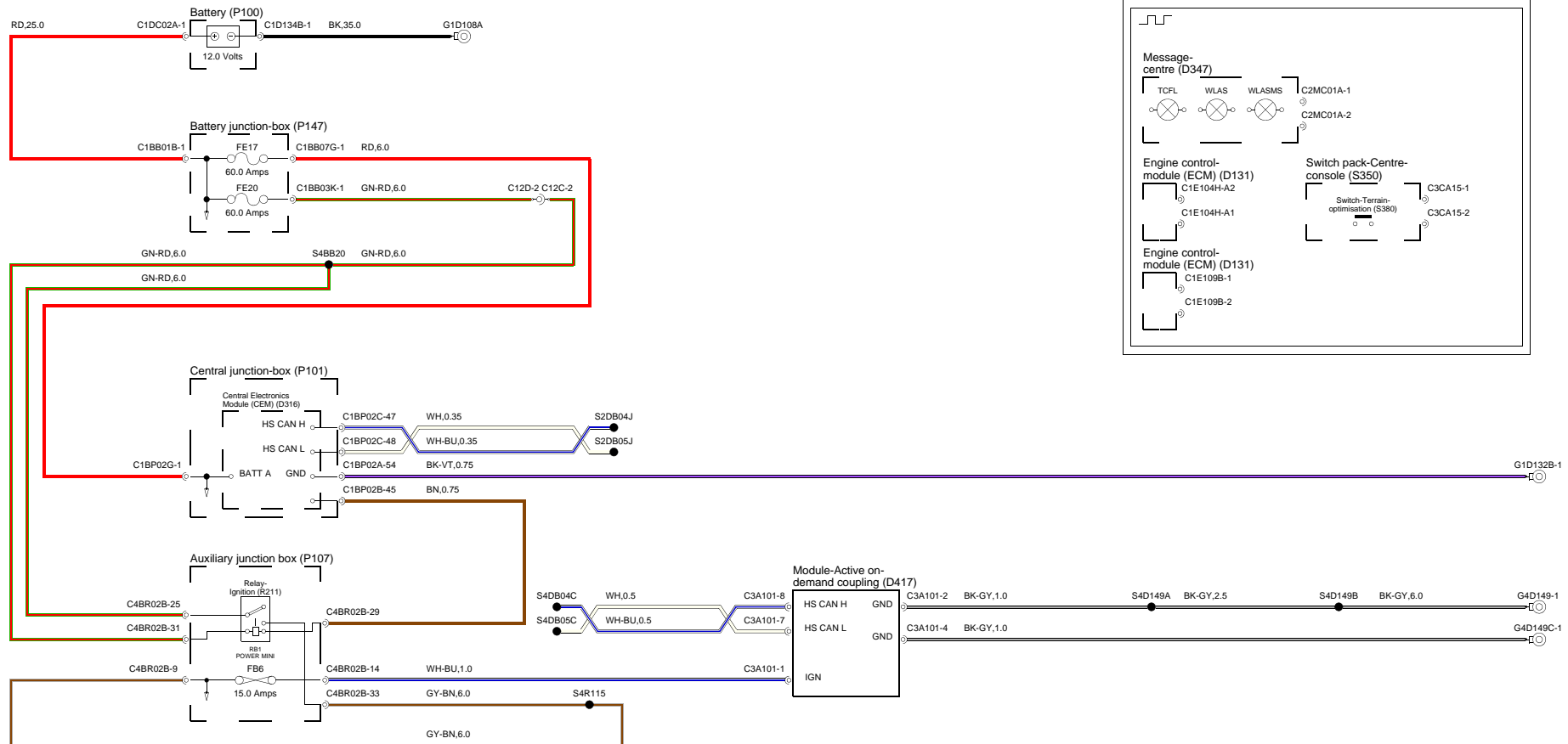
Ground points are identified with an eyelet symbol and a connector number, except where components are grounded through its fixings, when only the eyelet is shown.

**Colour Codes**

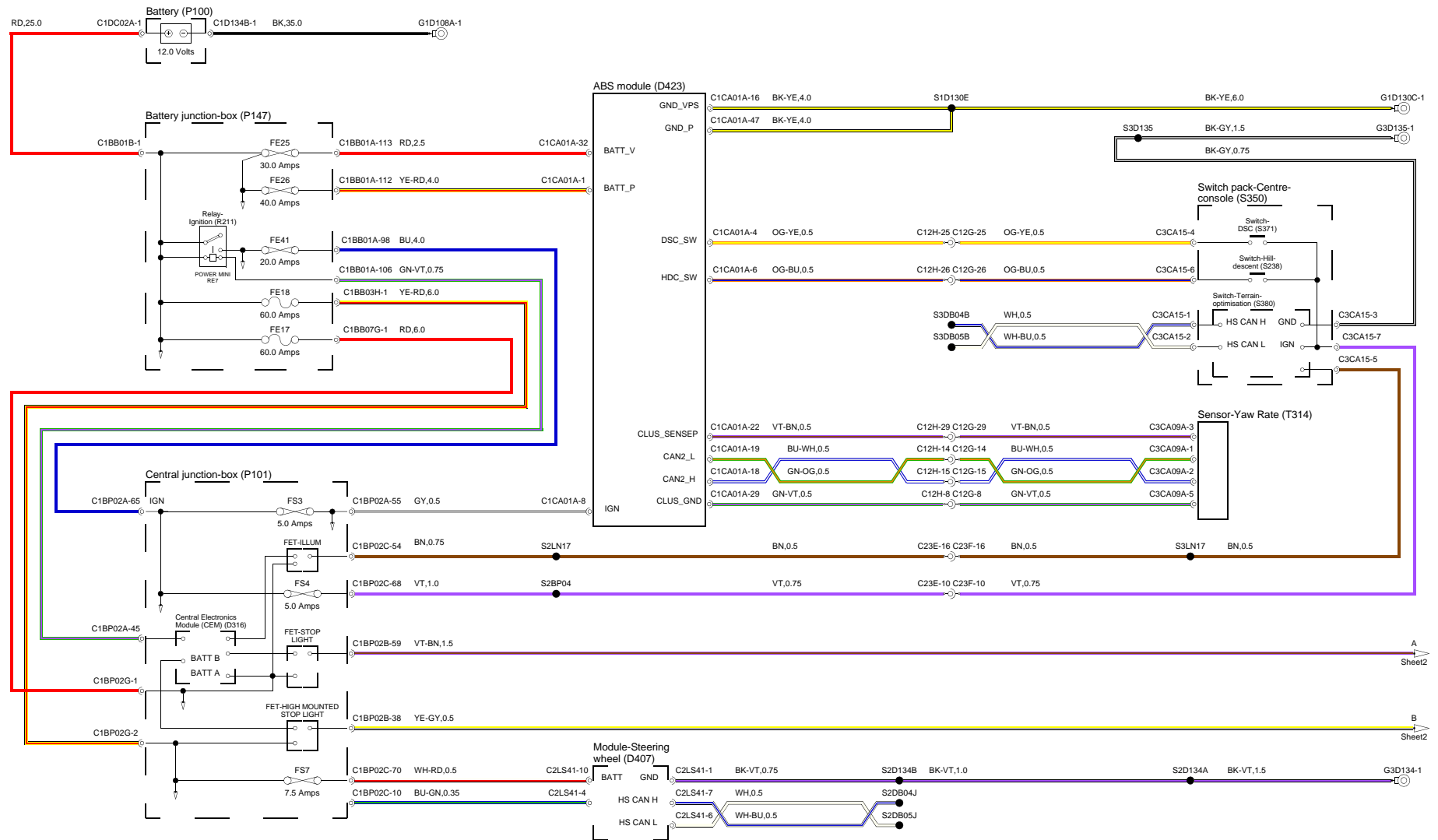
CODE	COLOUR
BK	BLACK
GN	GREEN
BN	BROWN
OG	ORANGE
VT	PURPLE
RD	RED
GY	GREY
BU	BLUE
WH	WHITE
PK	PINK
YE	YELLOW

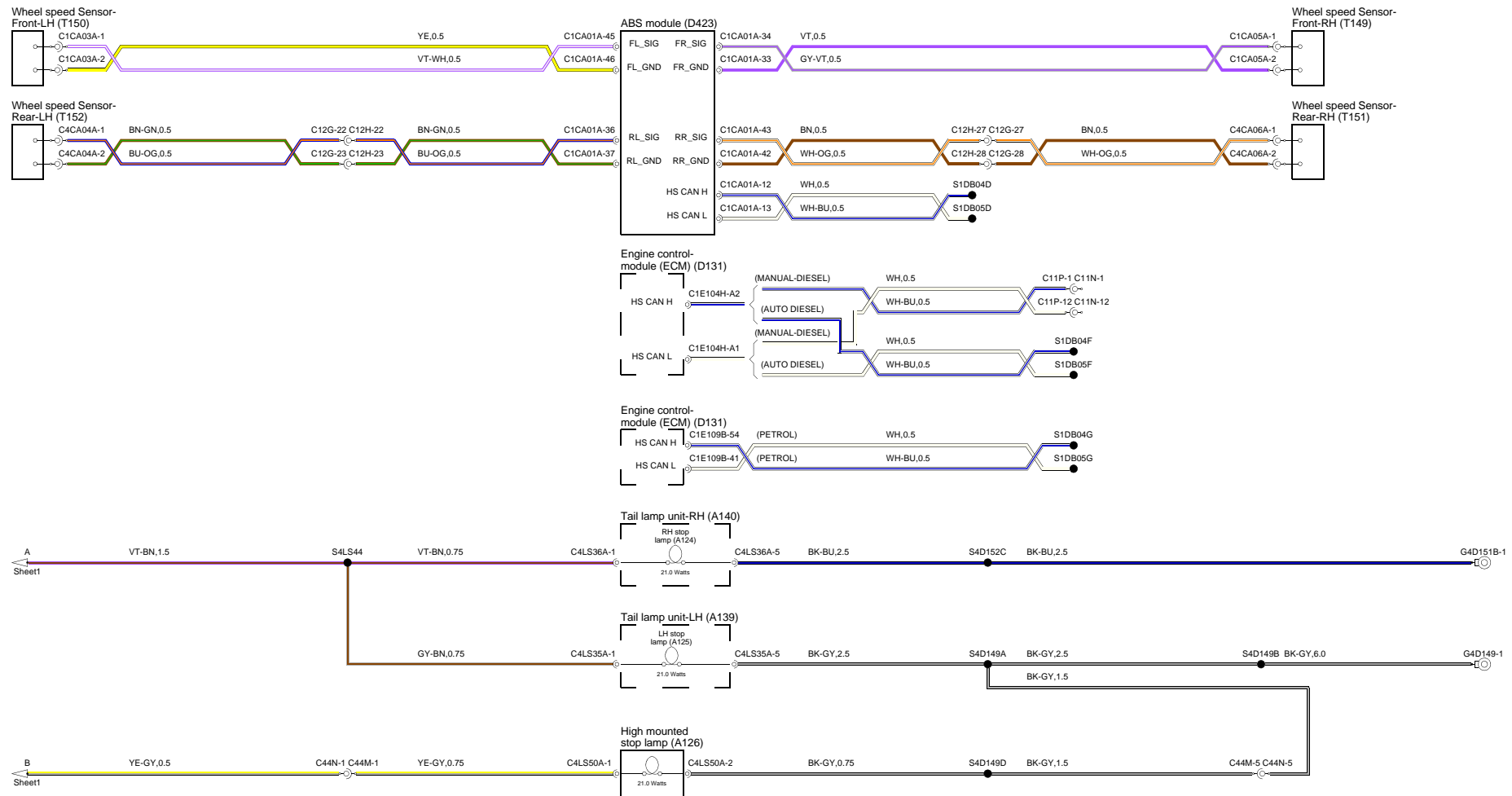


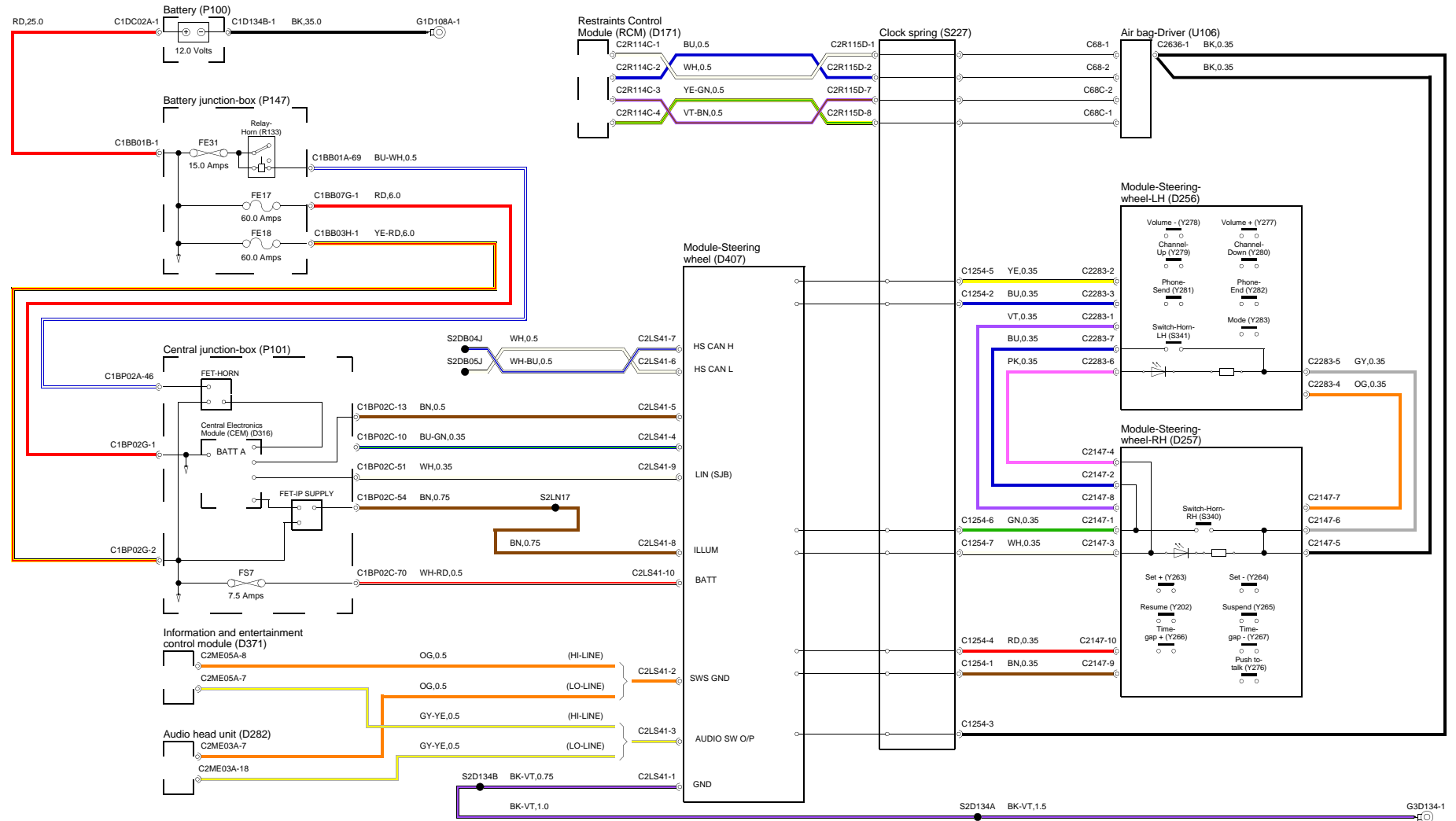
## 205-02 REAR DRIVE AXLE AND DIFFERENTIAL

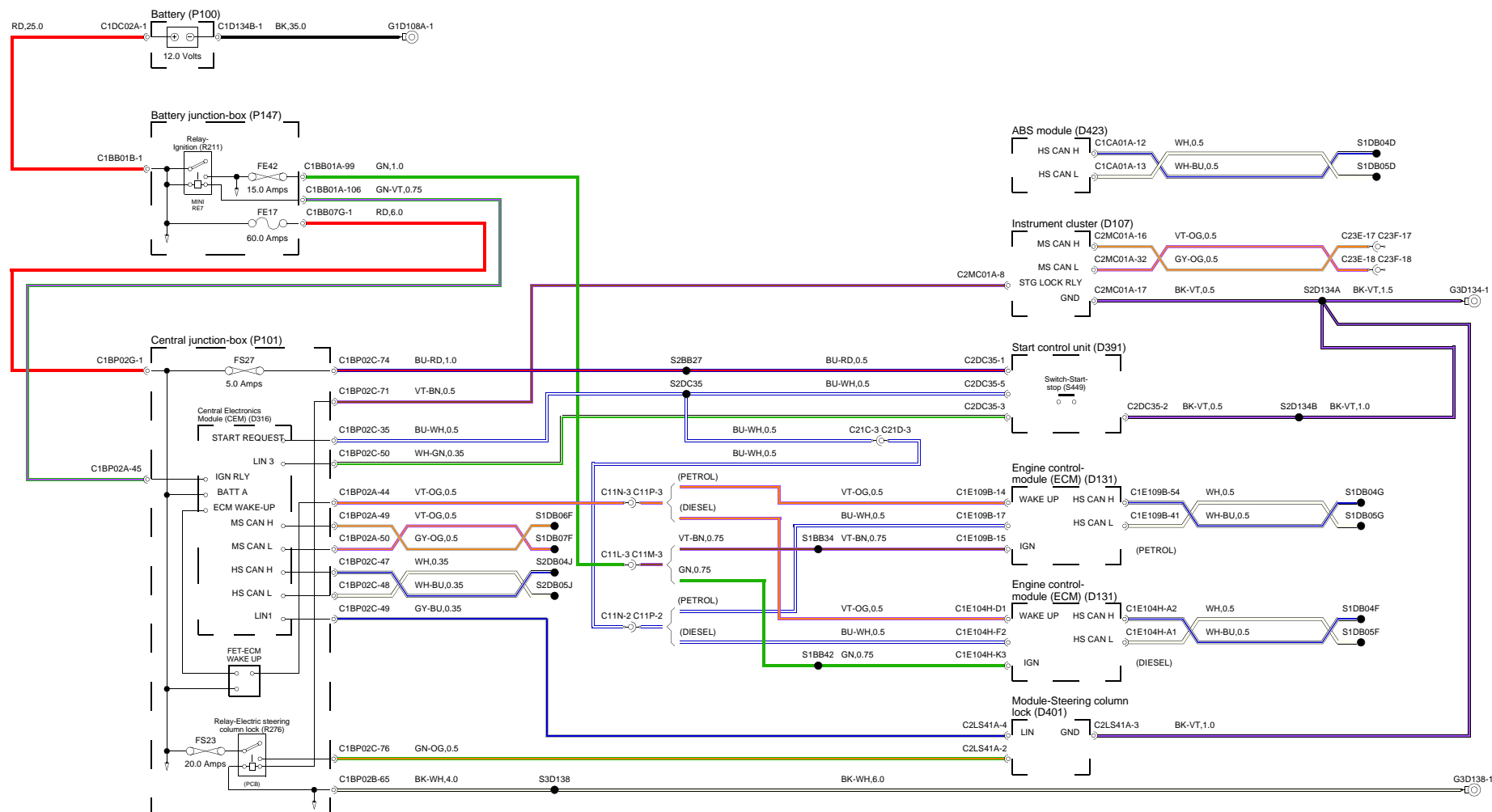


## 206-09 ANTI-LOCK CONTROL



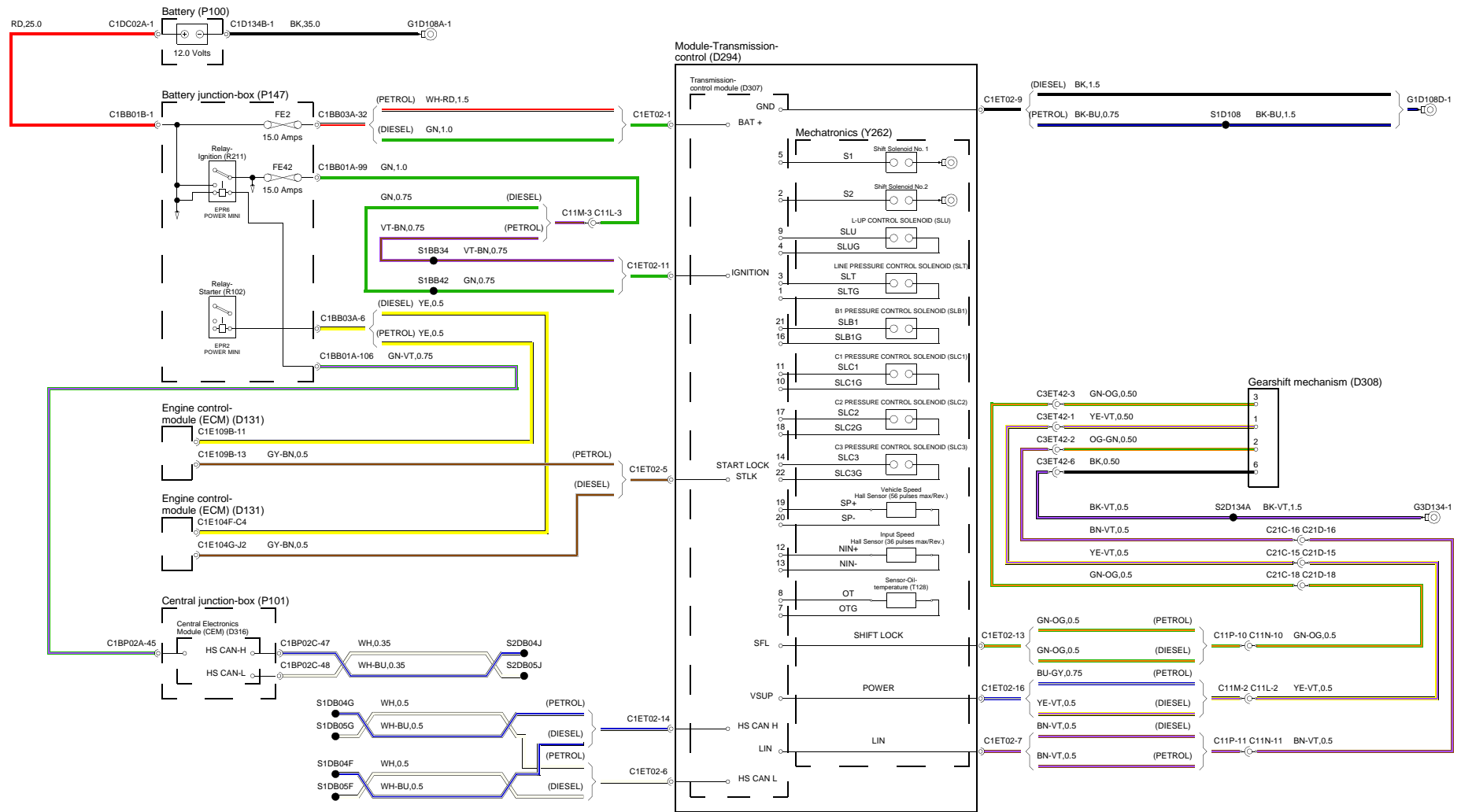


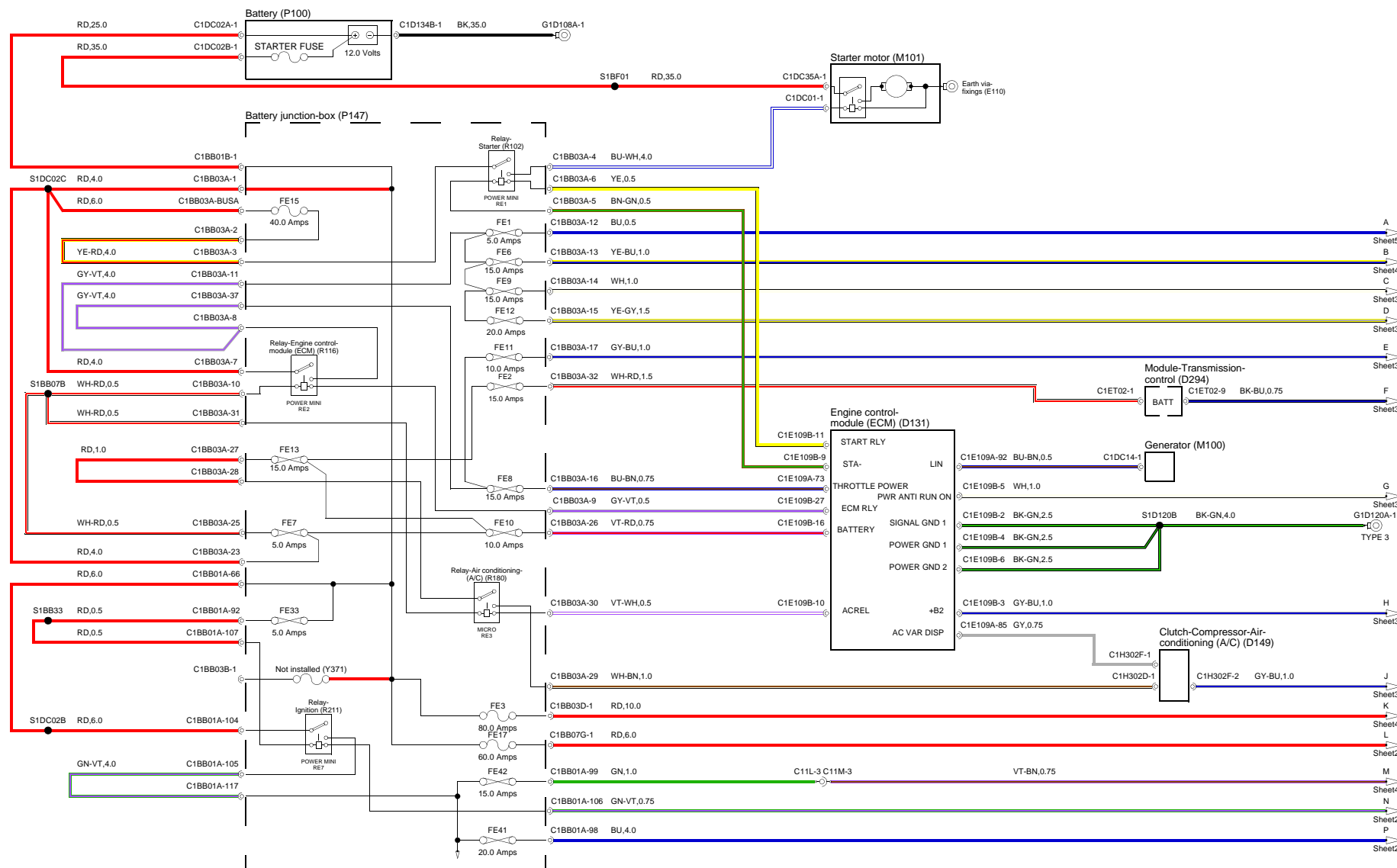


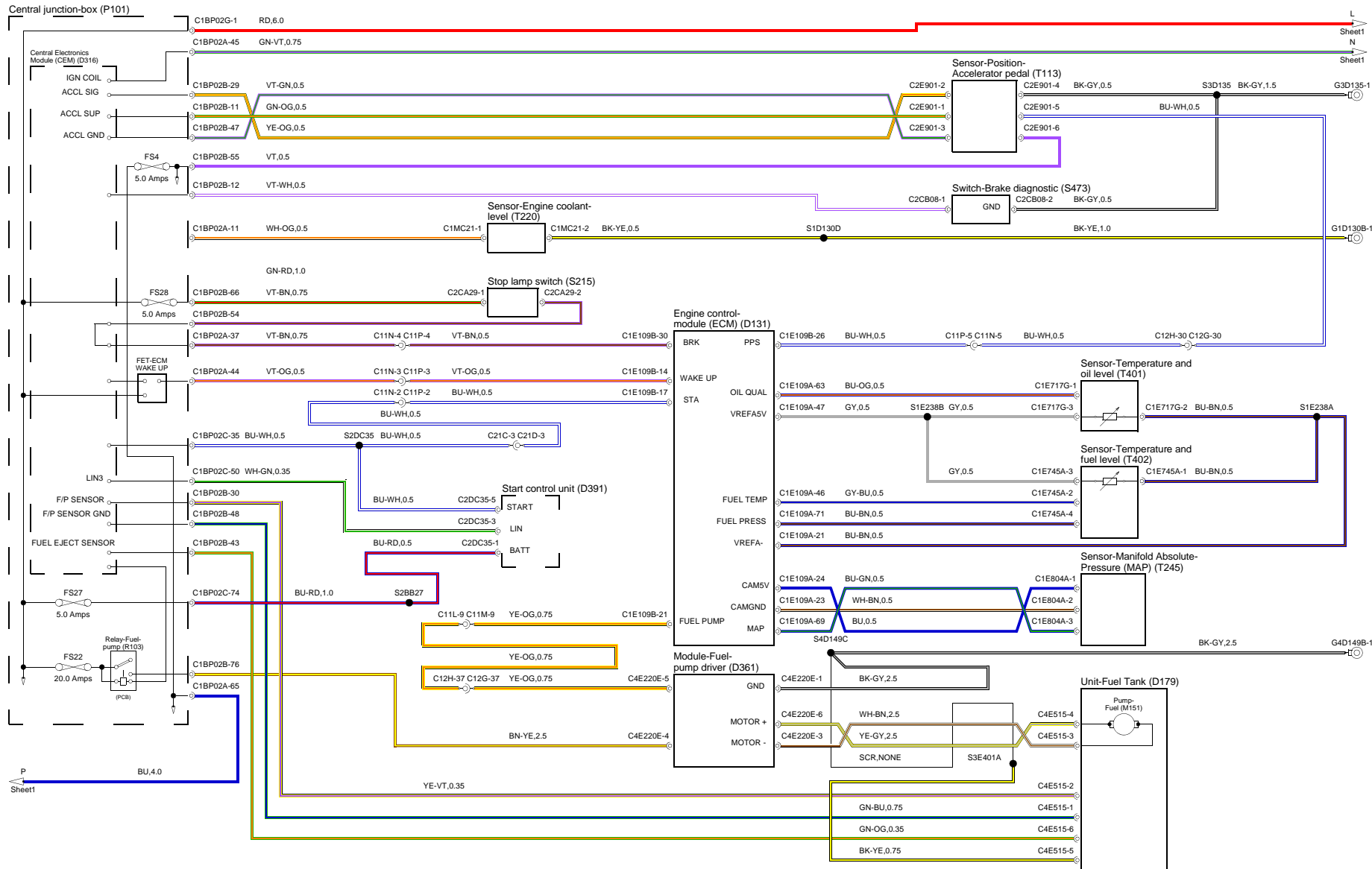


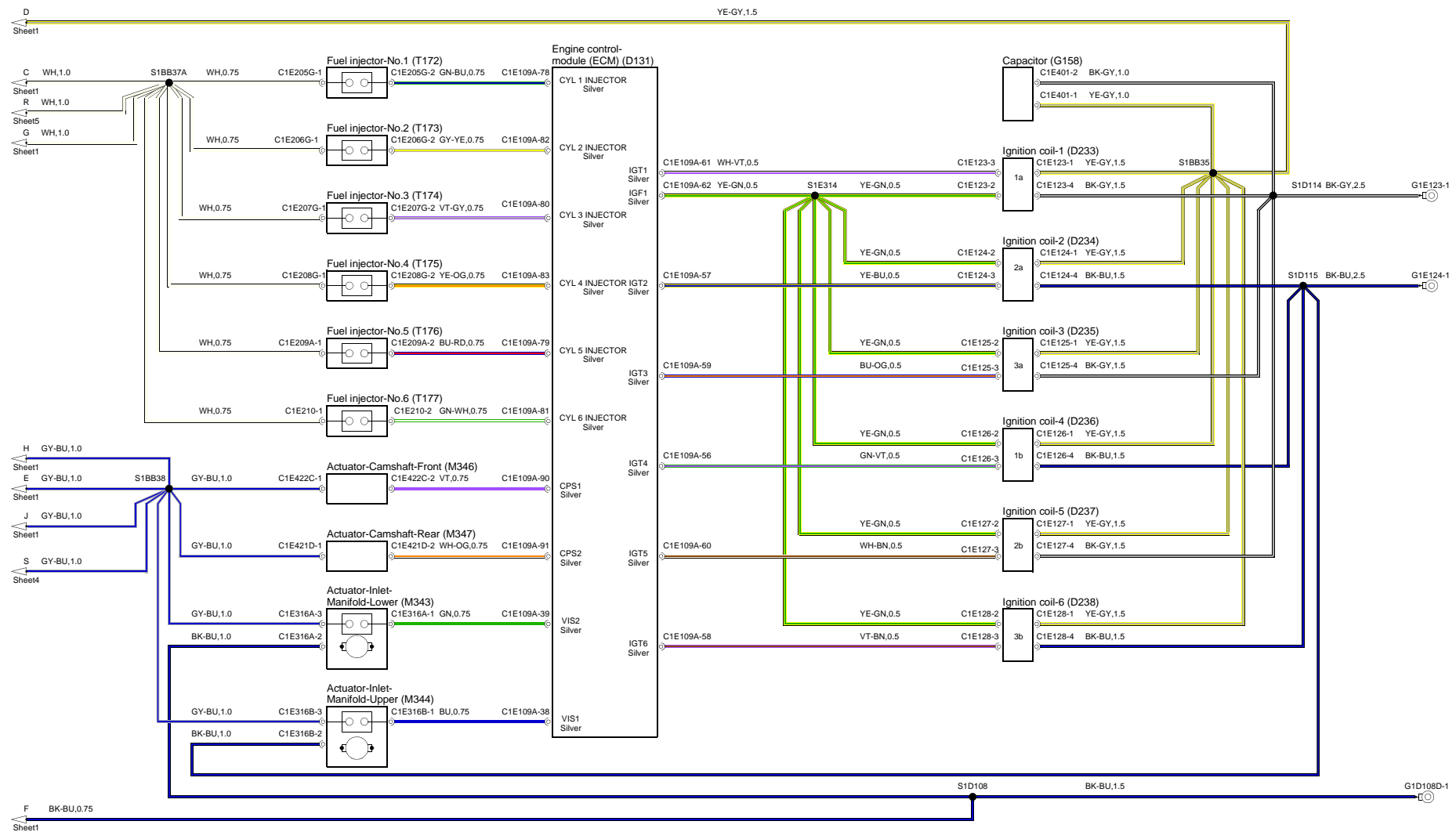


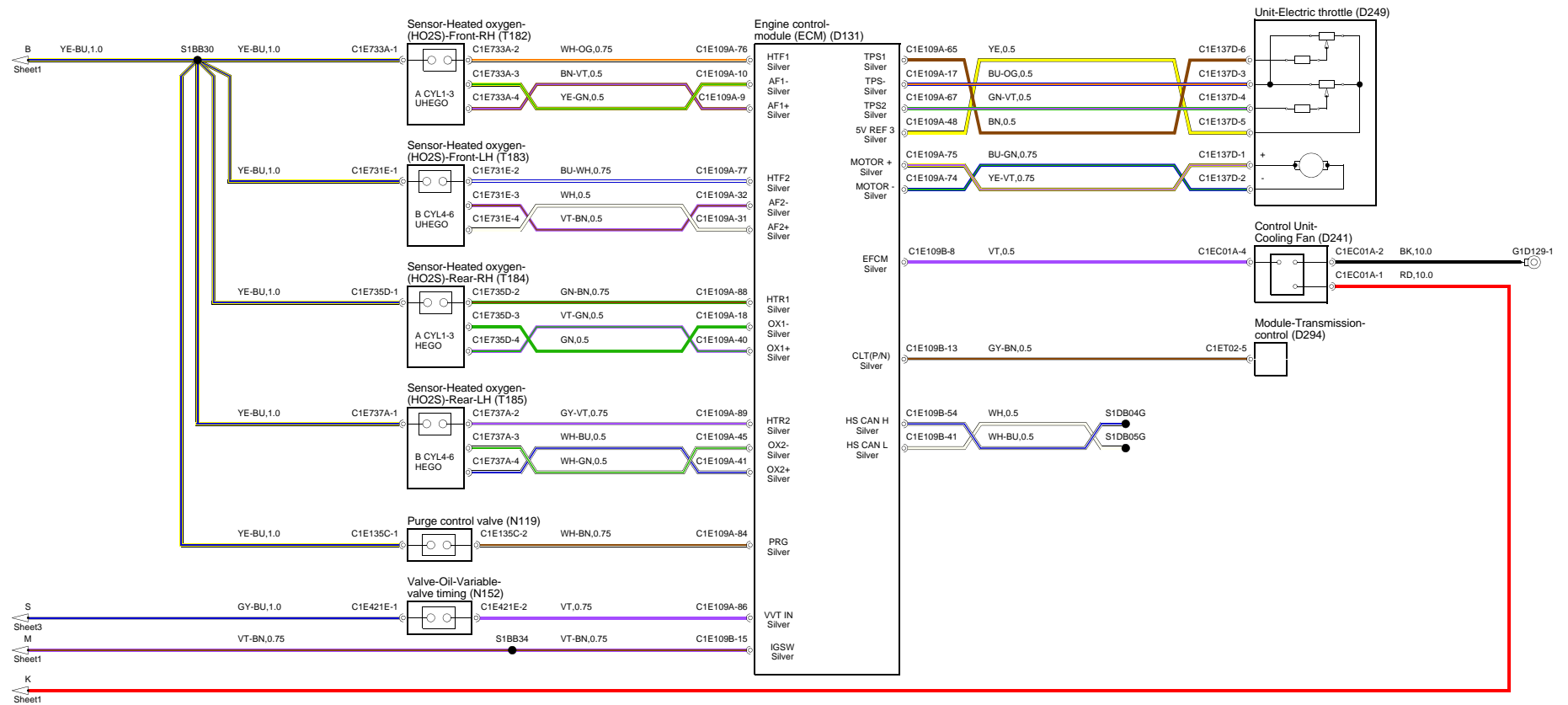
# 307-01 AUTOMATIC TRANSMISSION

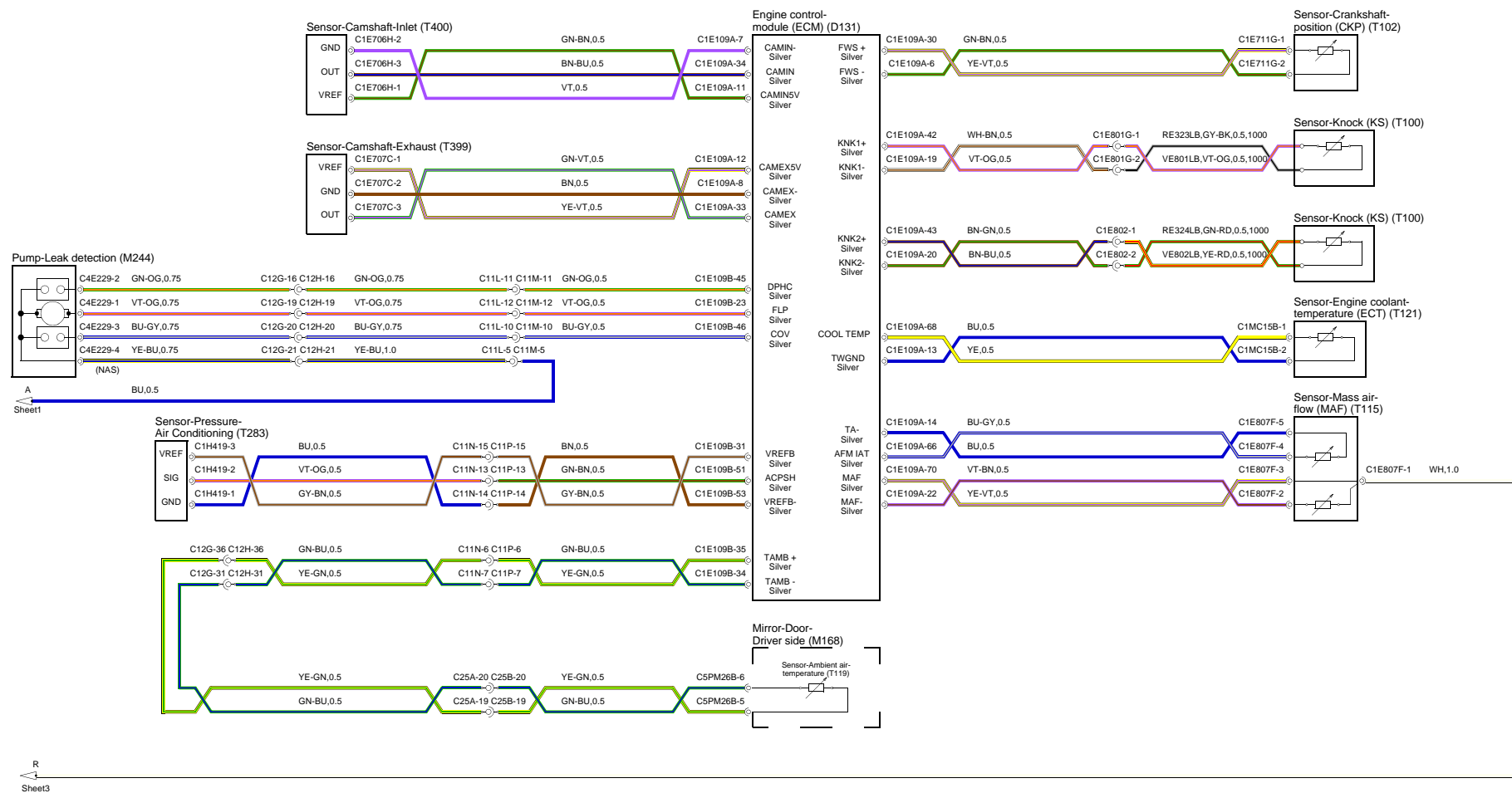


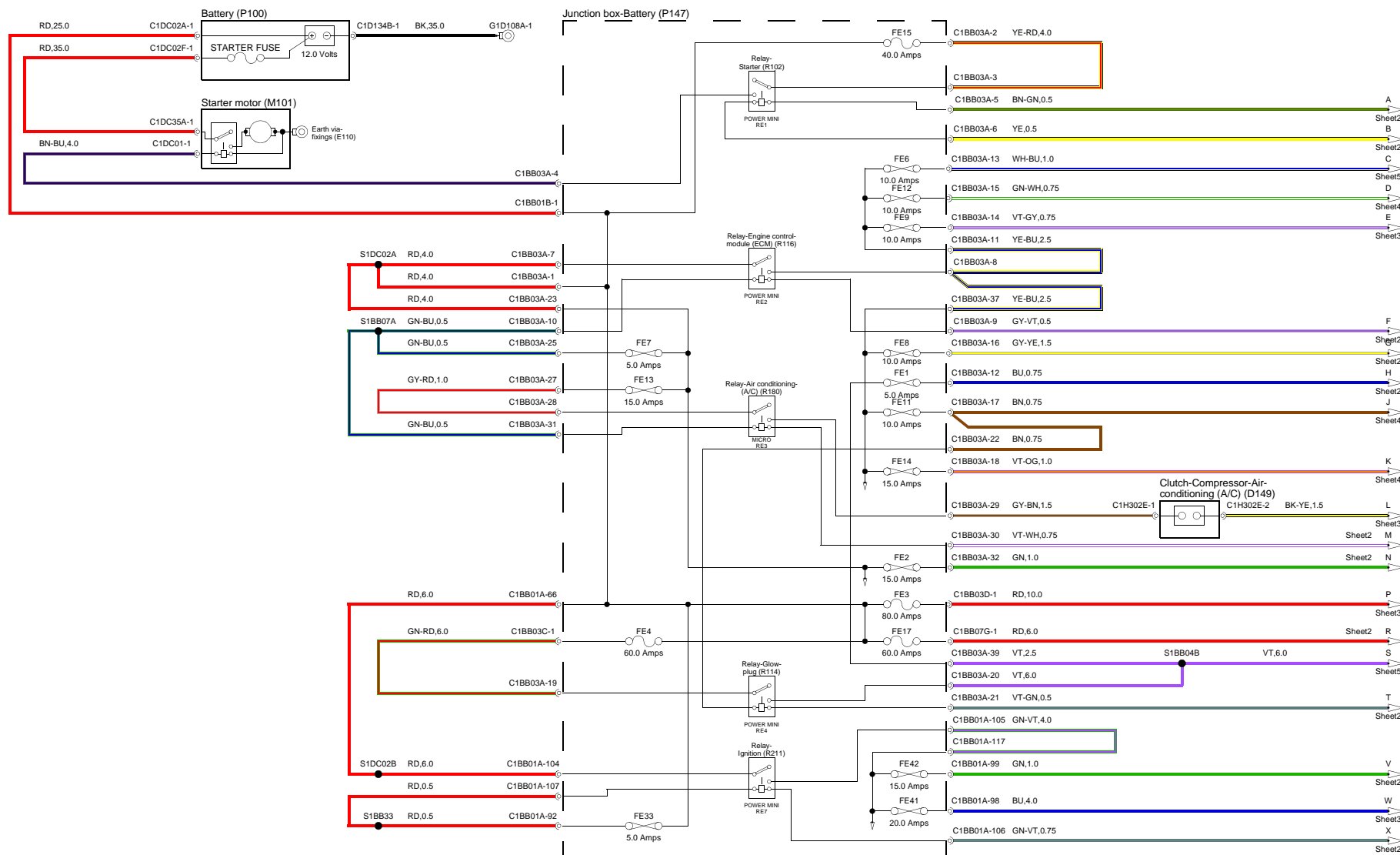


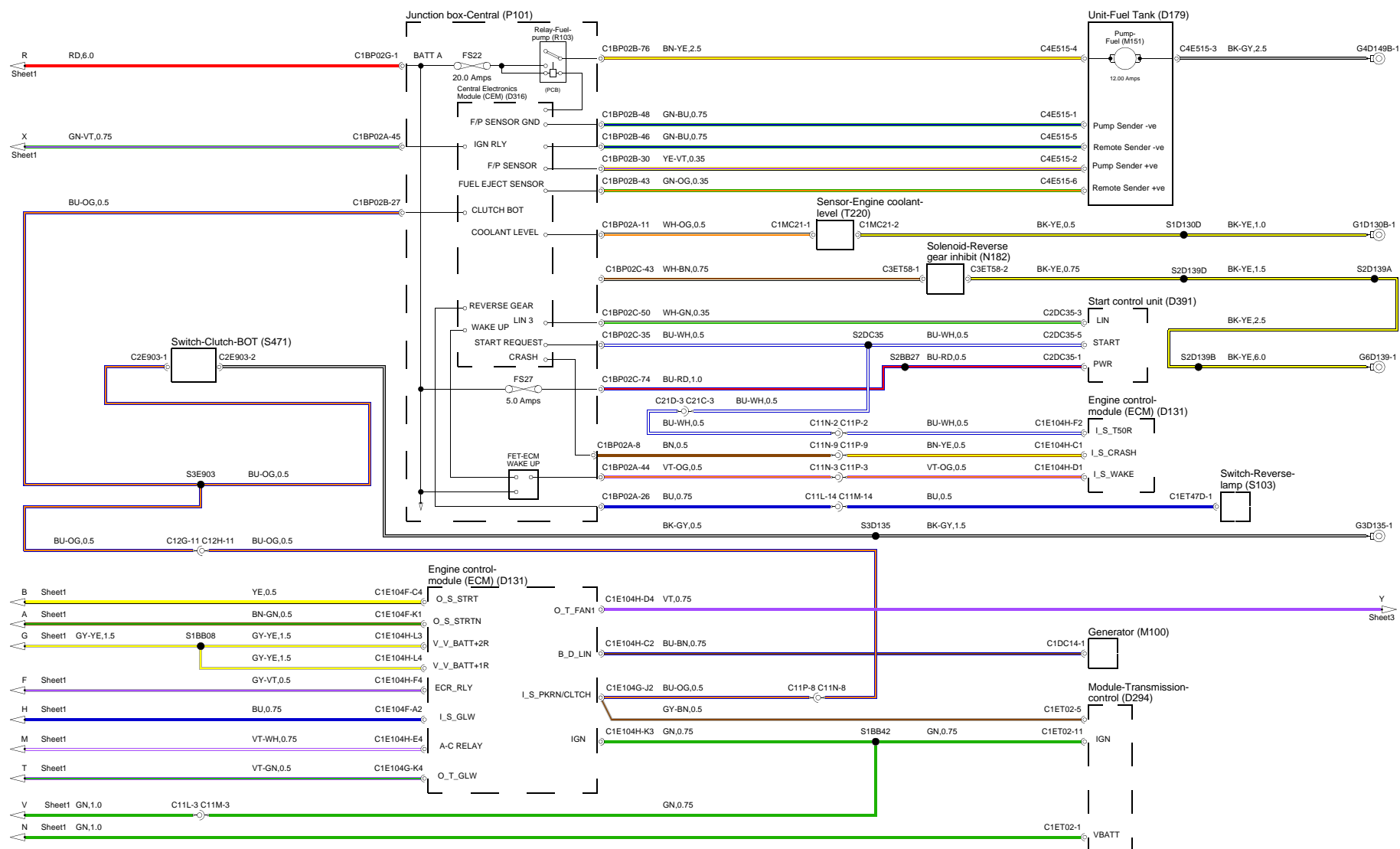






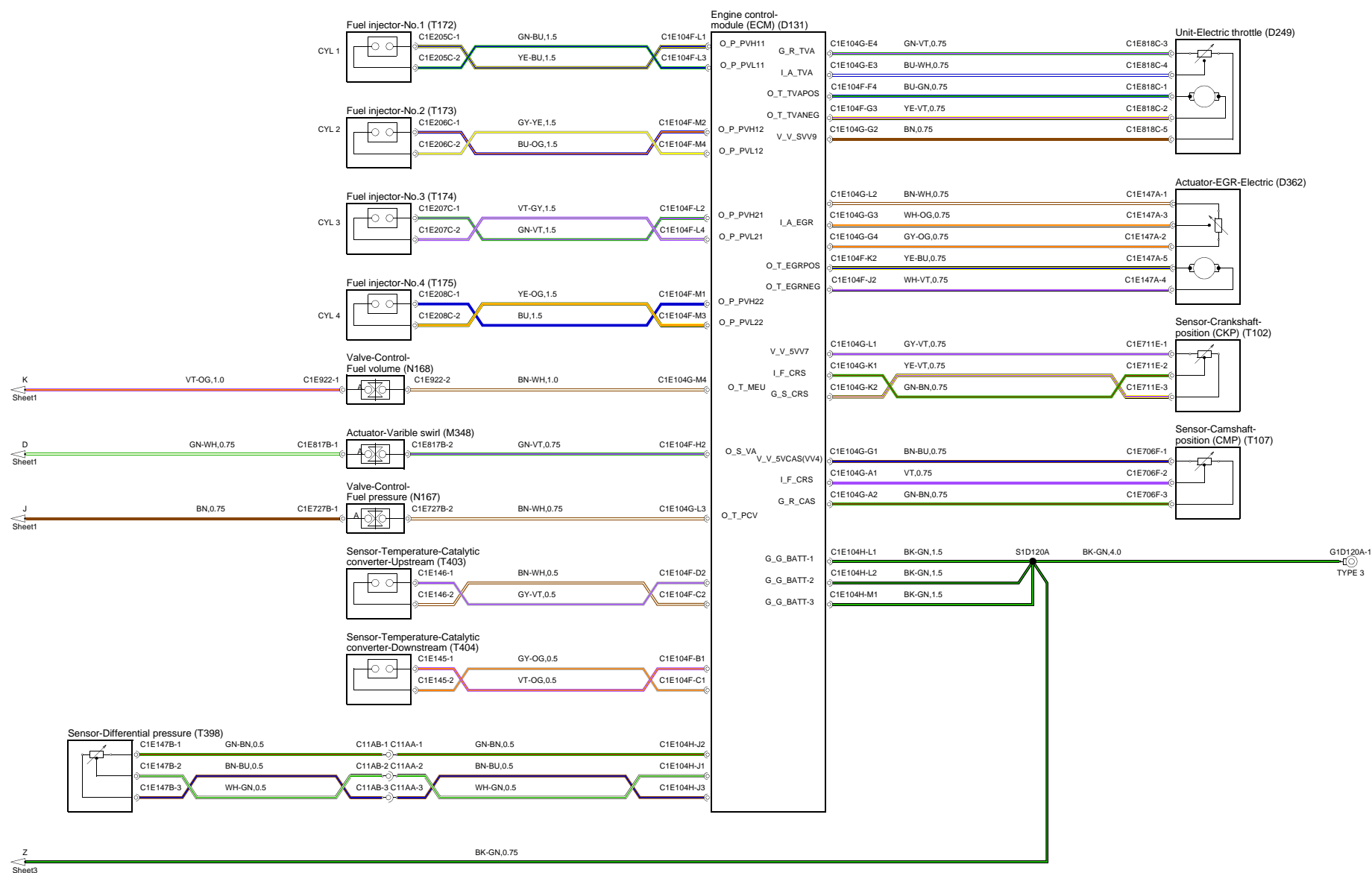


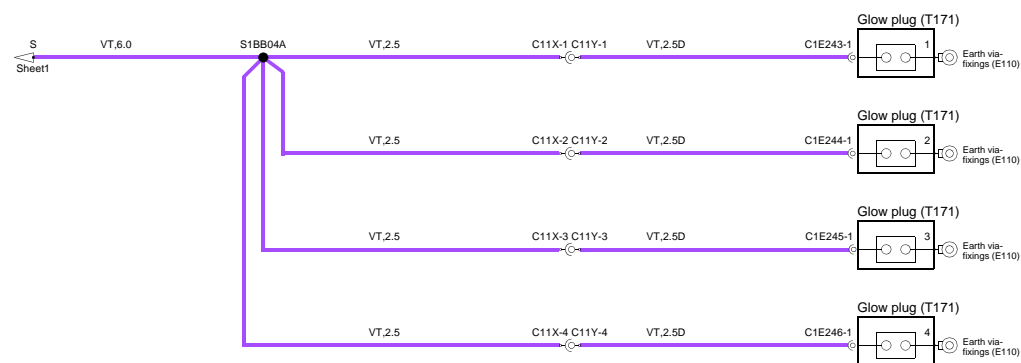
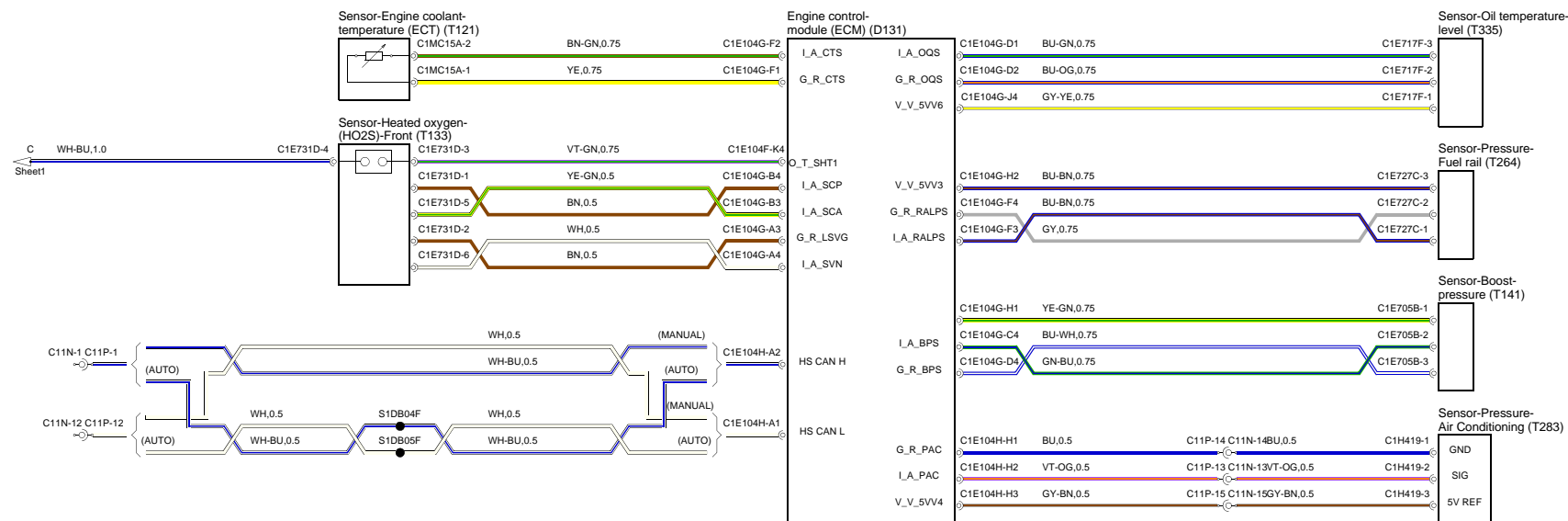


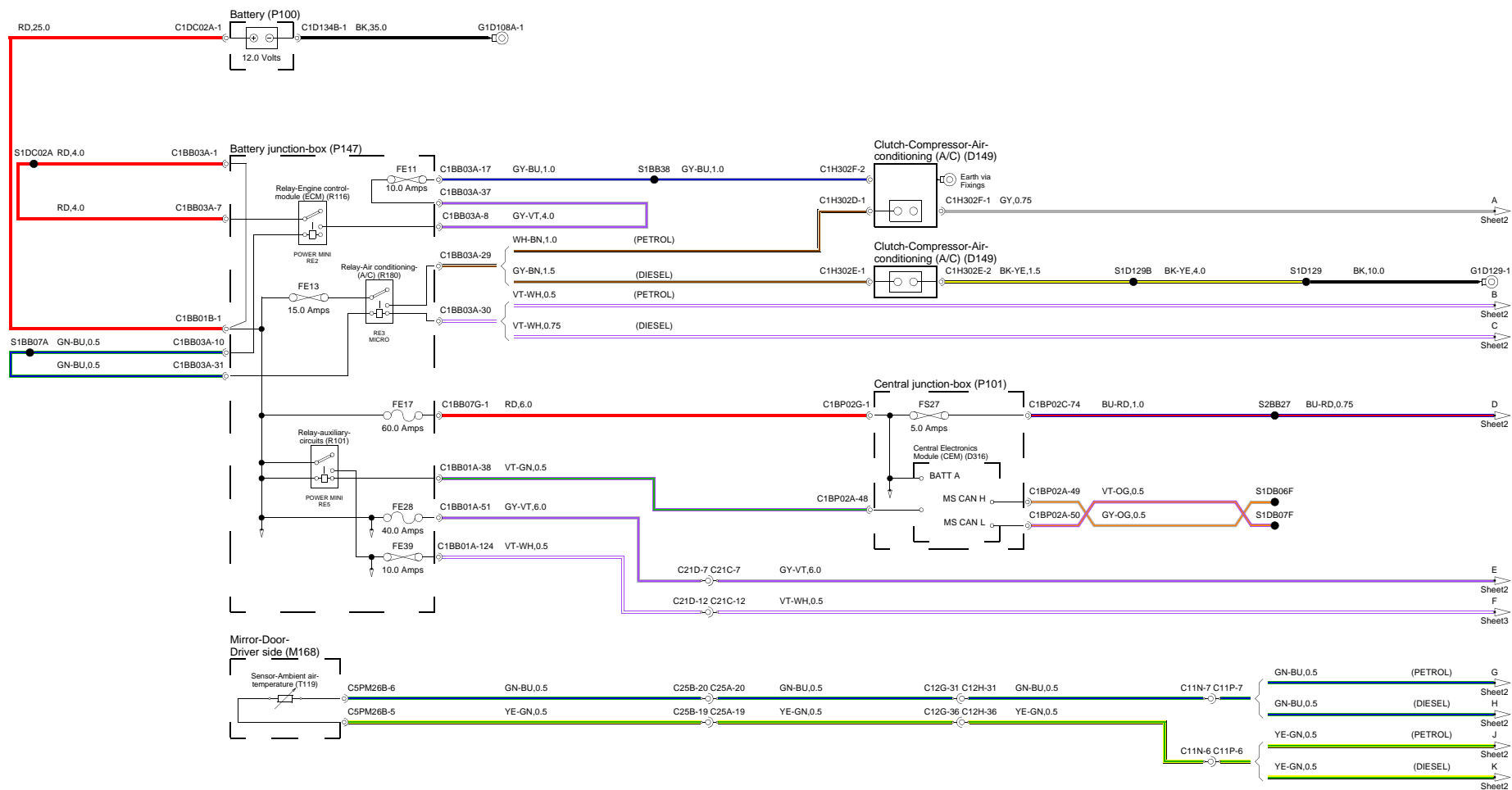


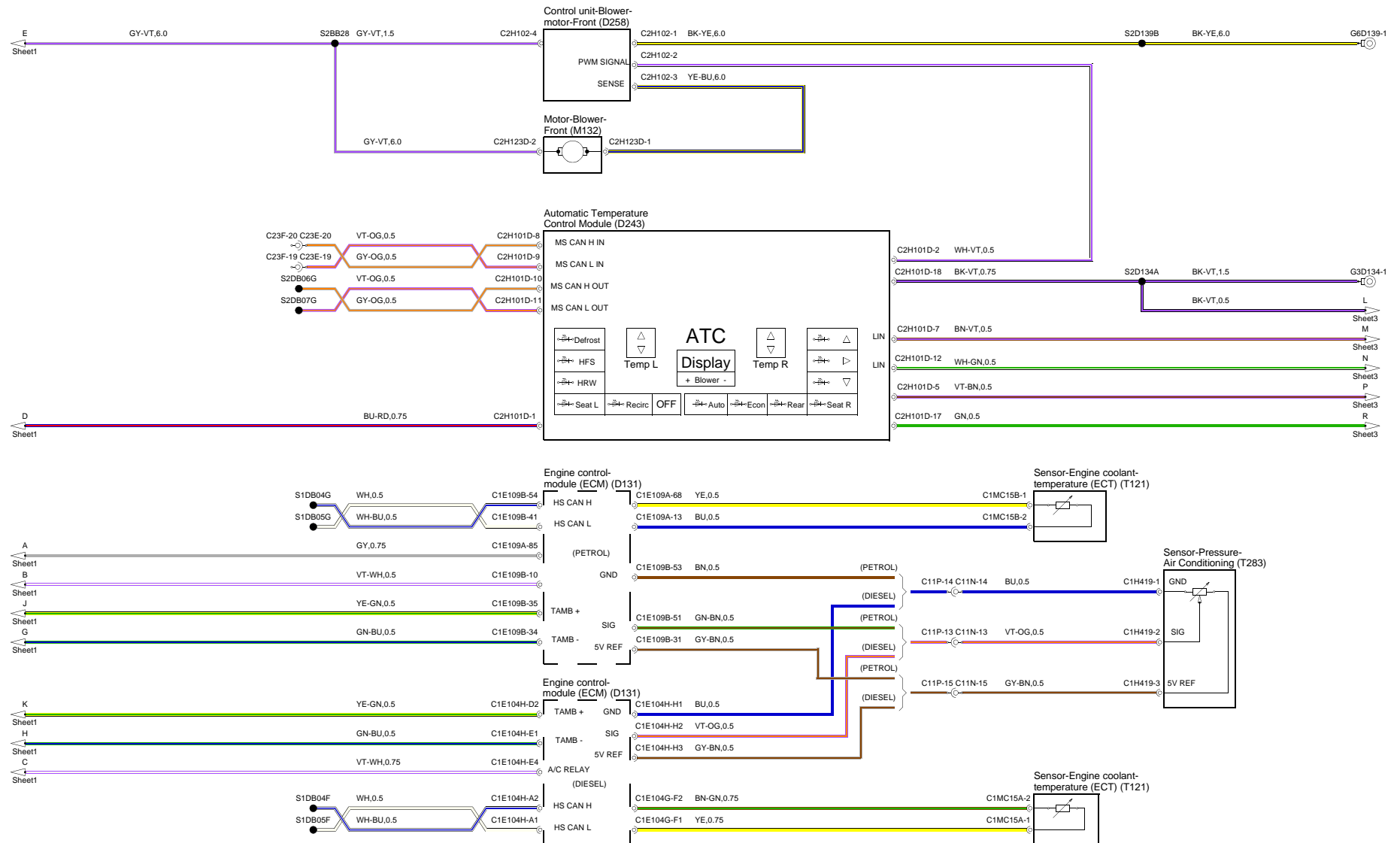


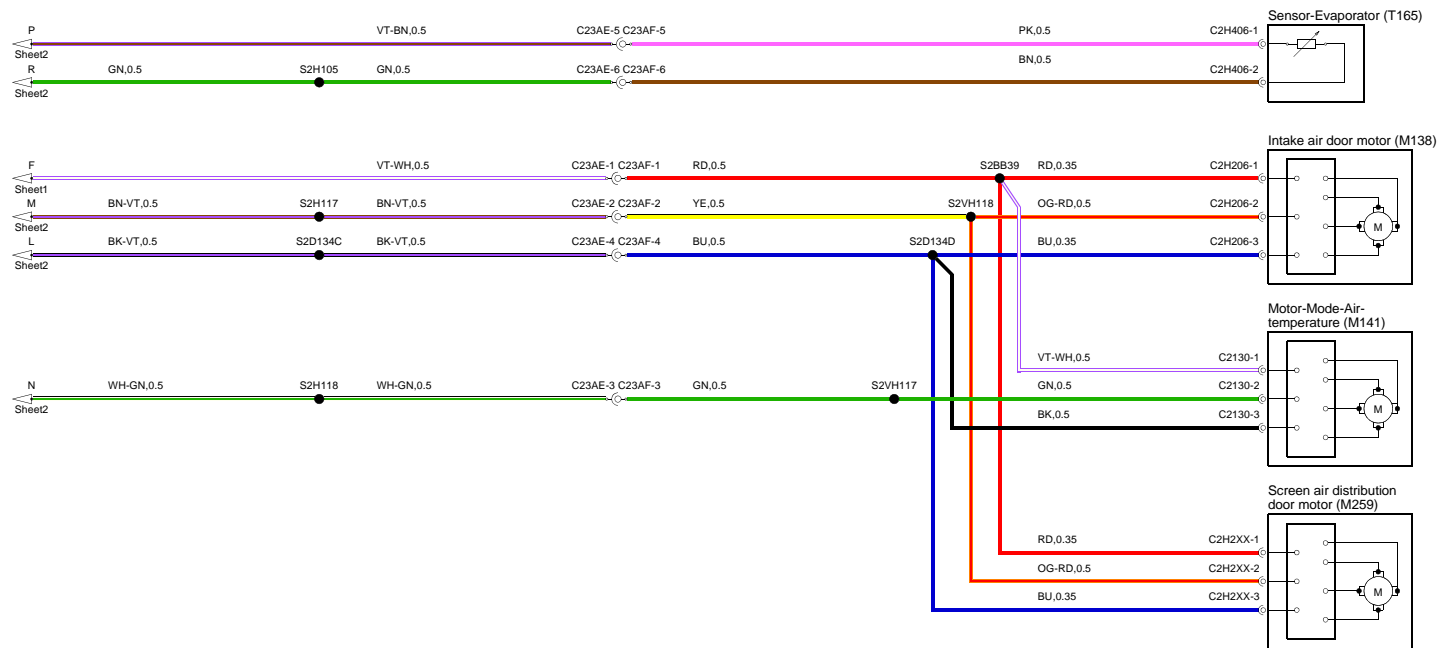


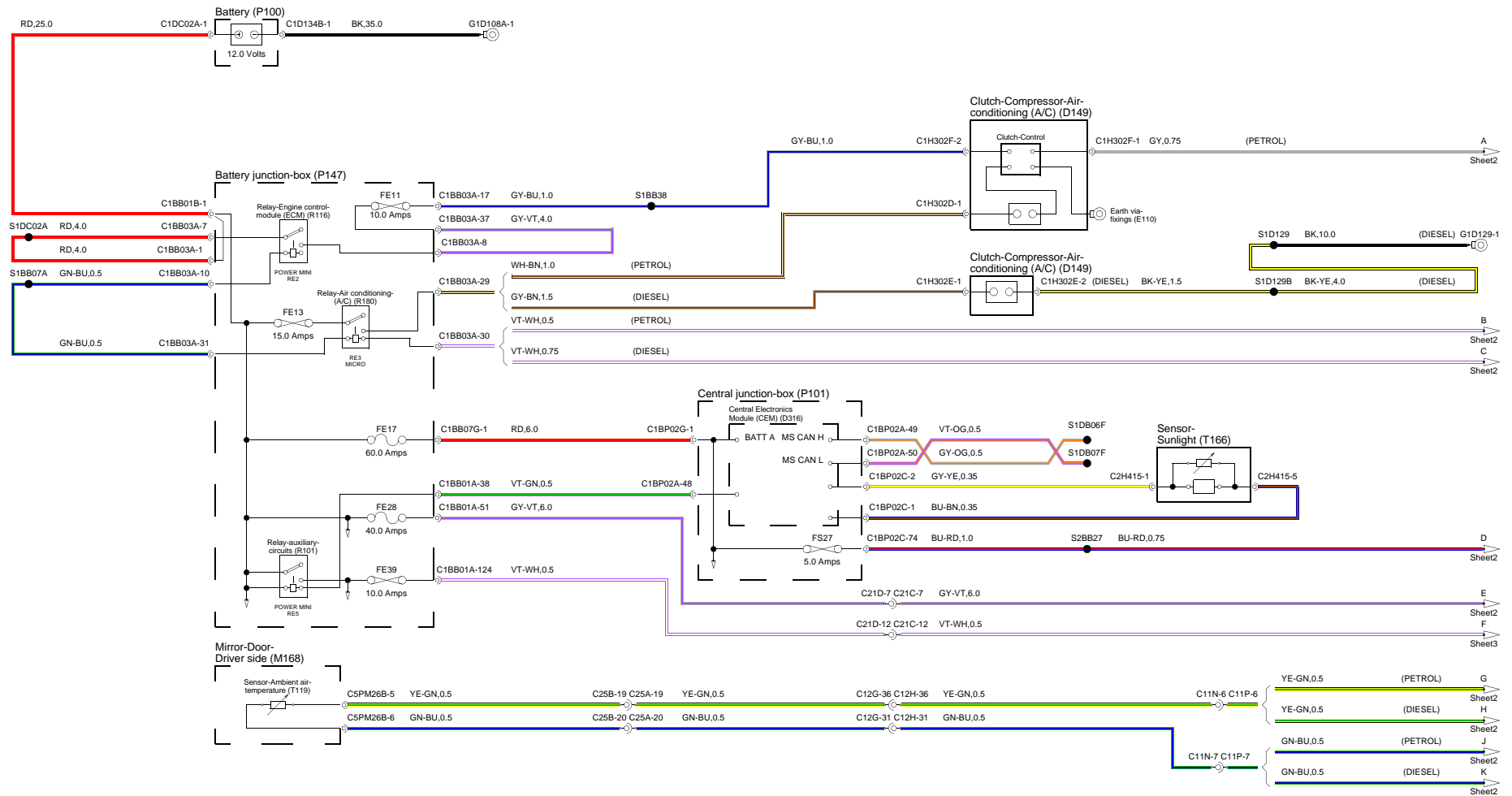


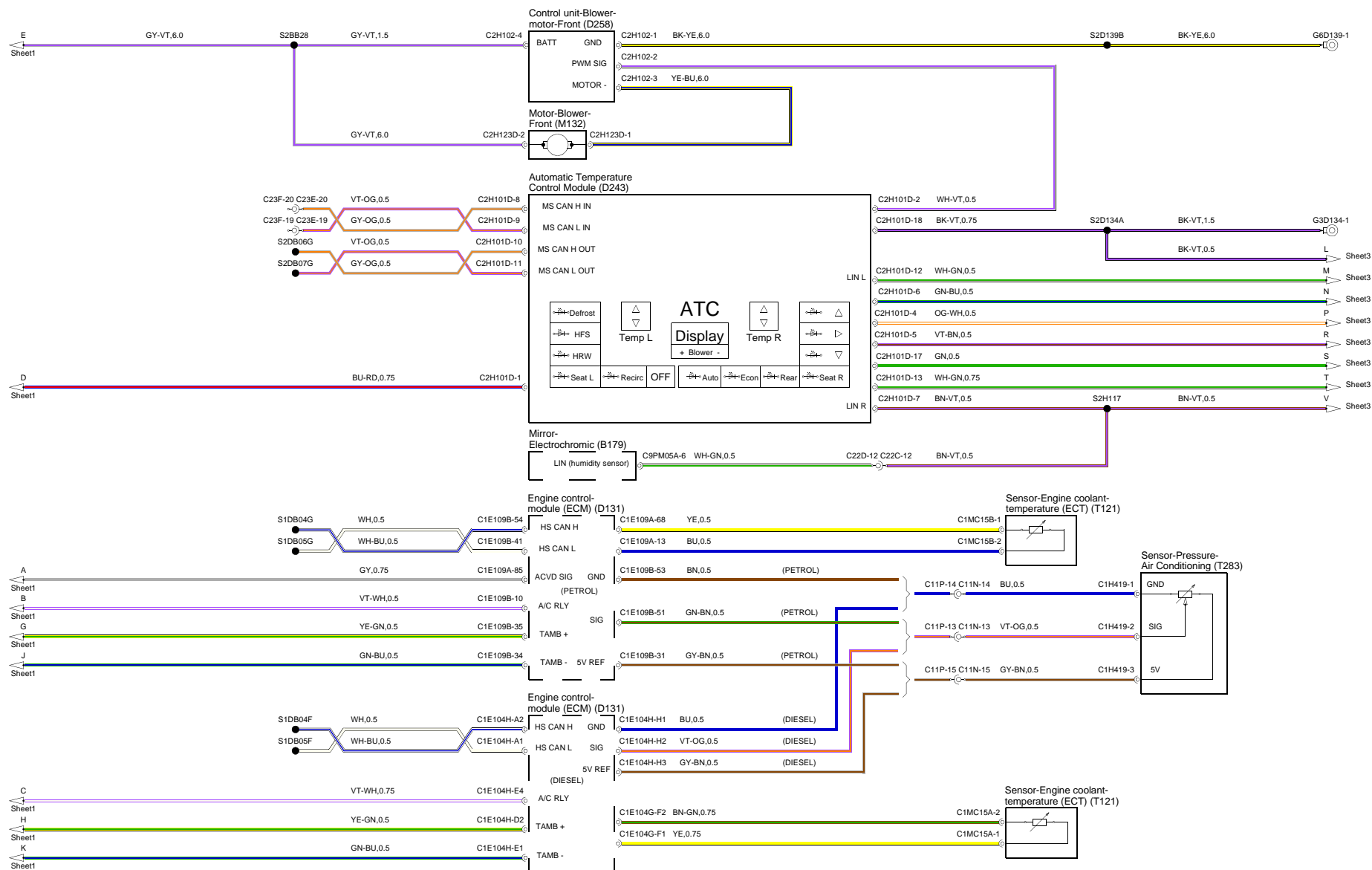




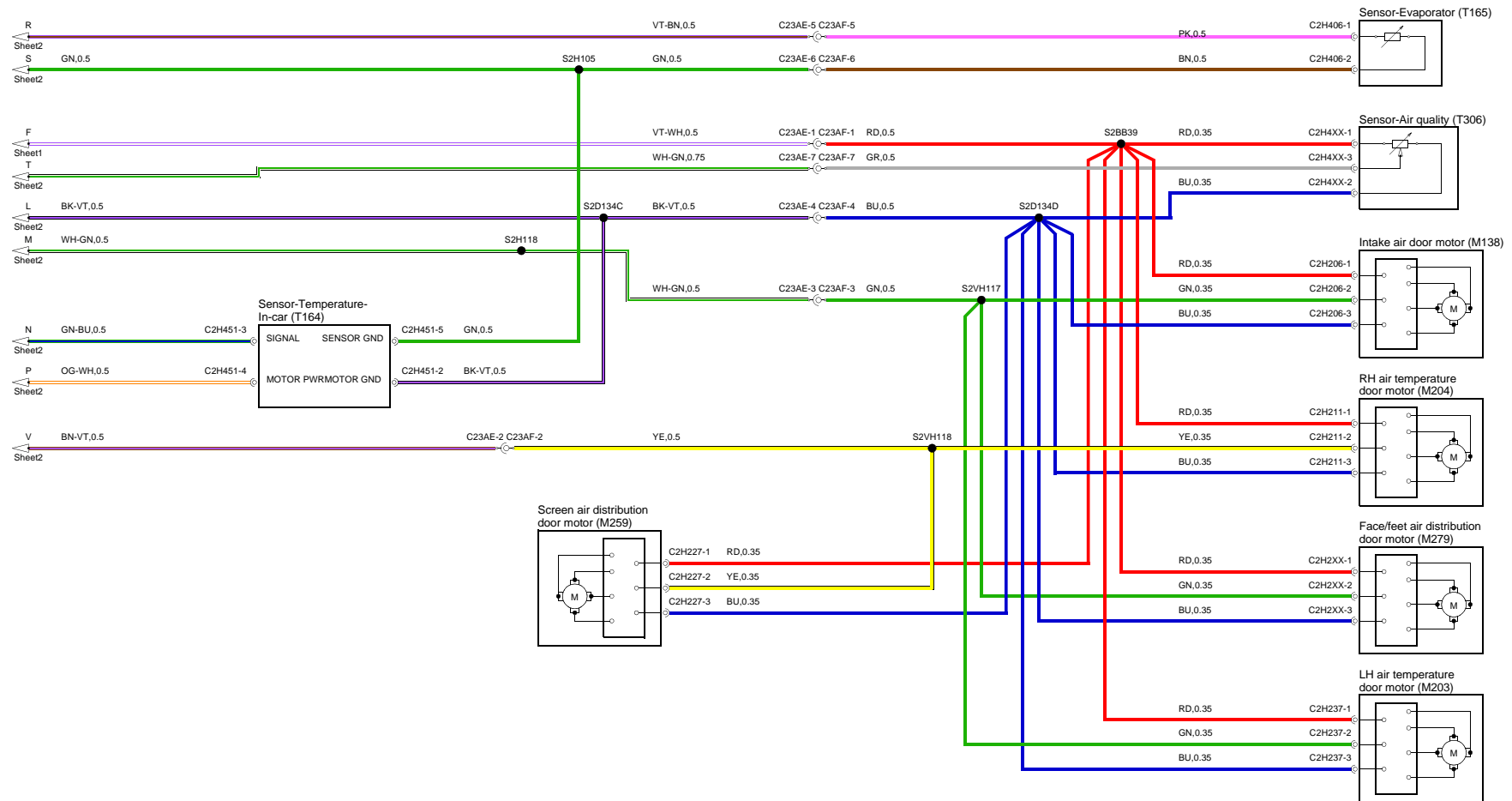


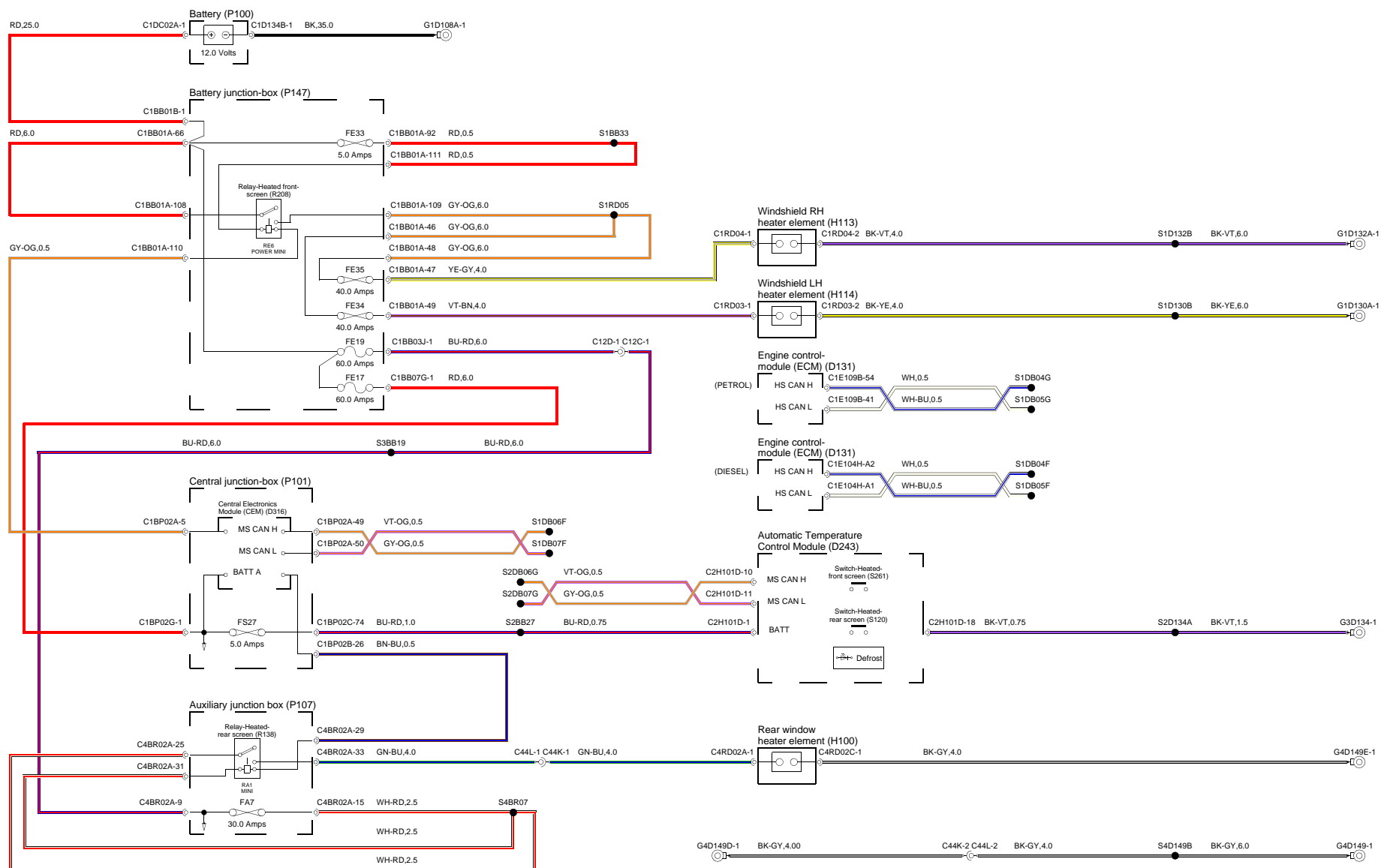


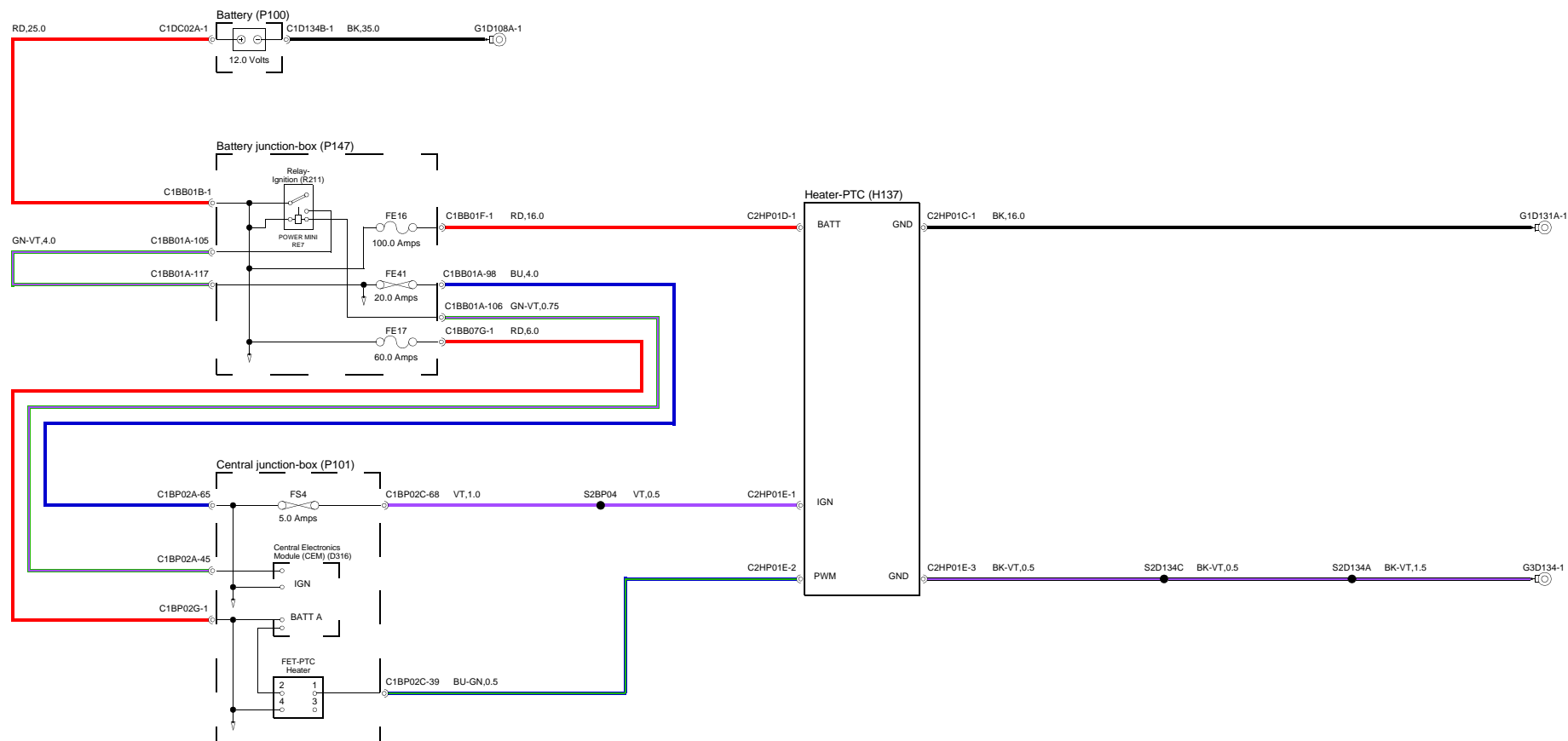


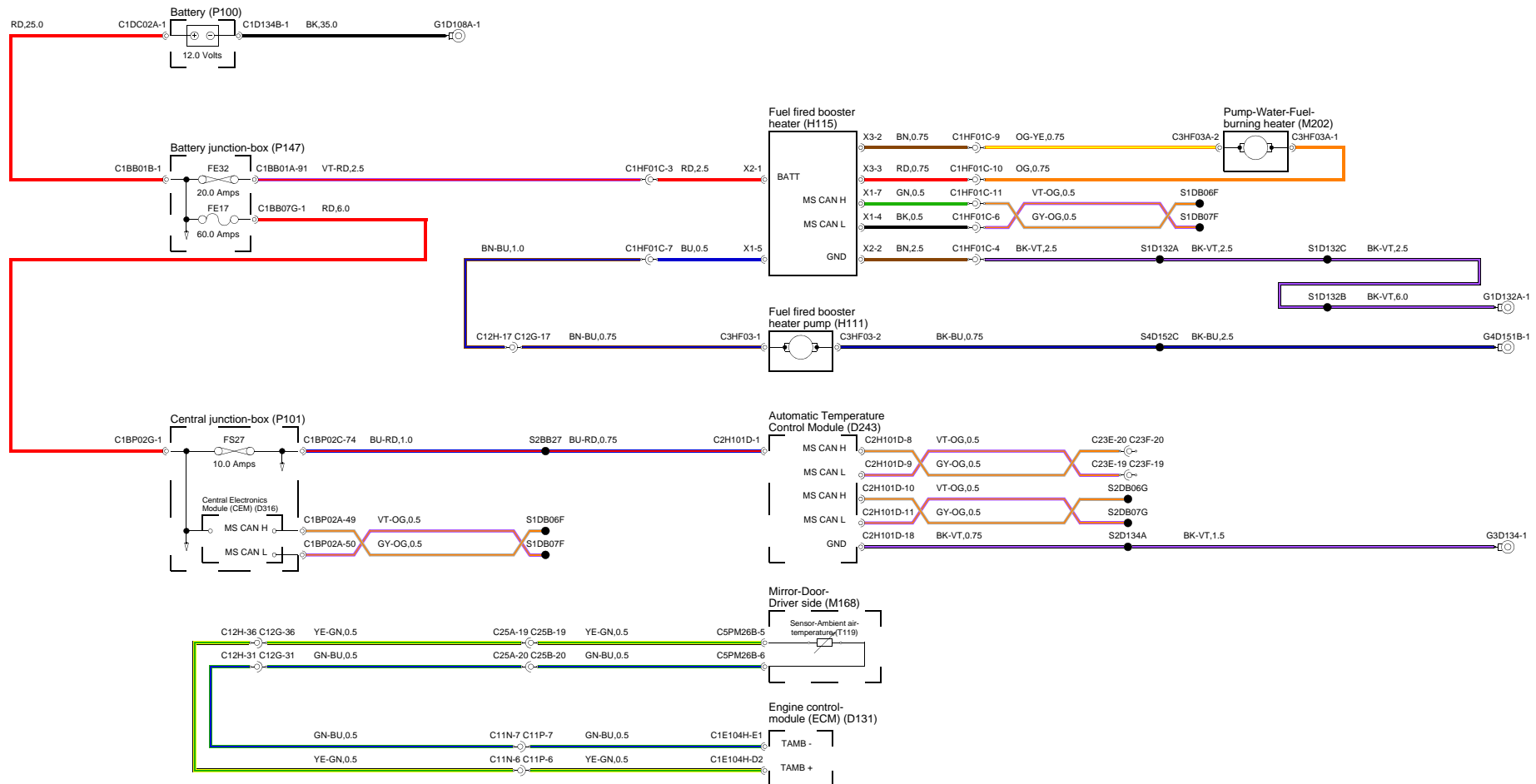


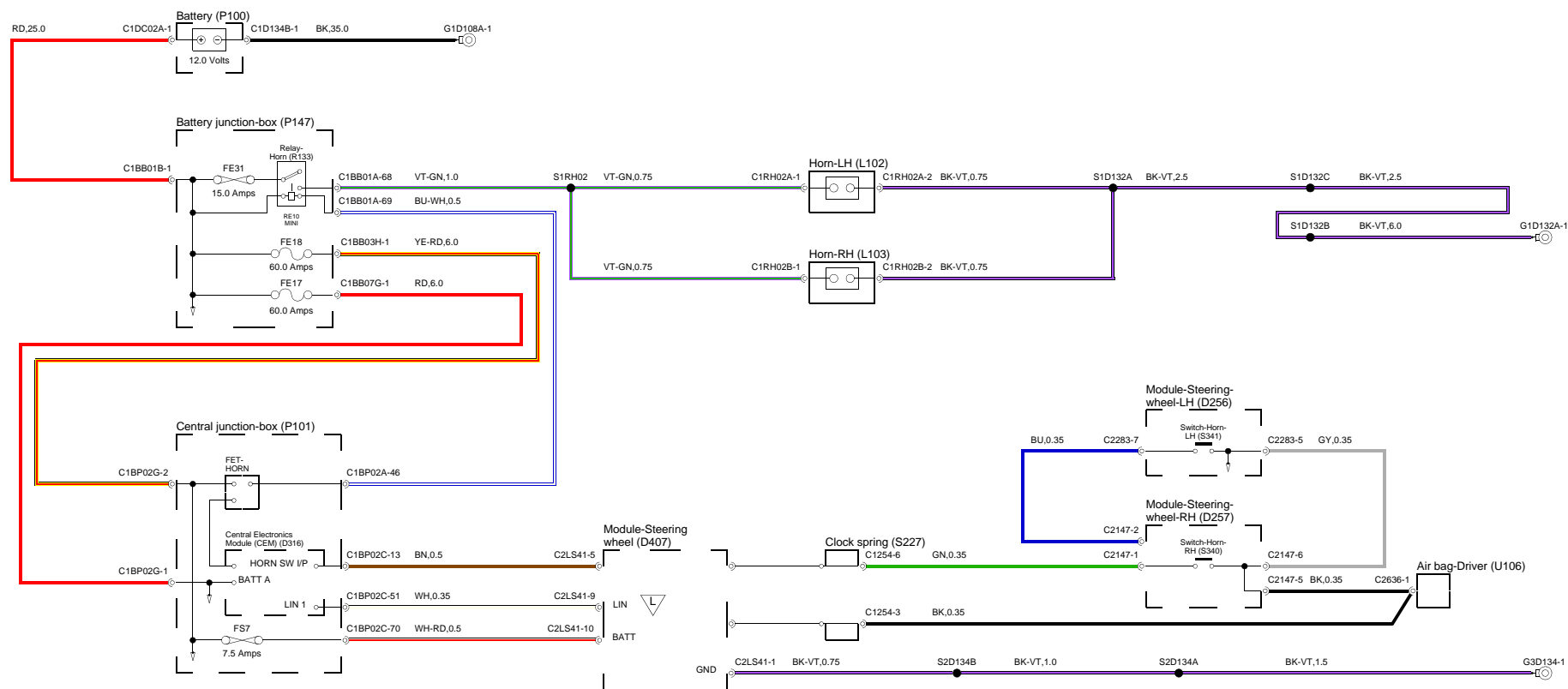




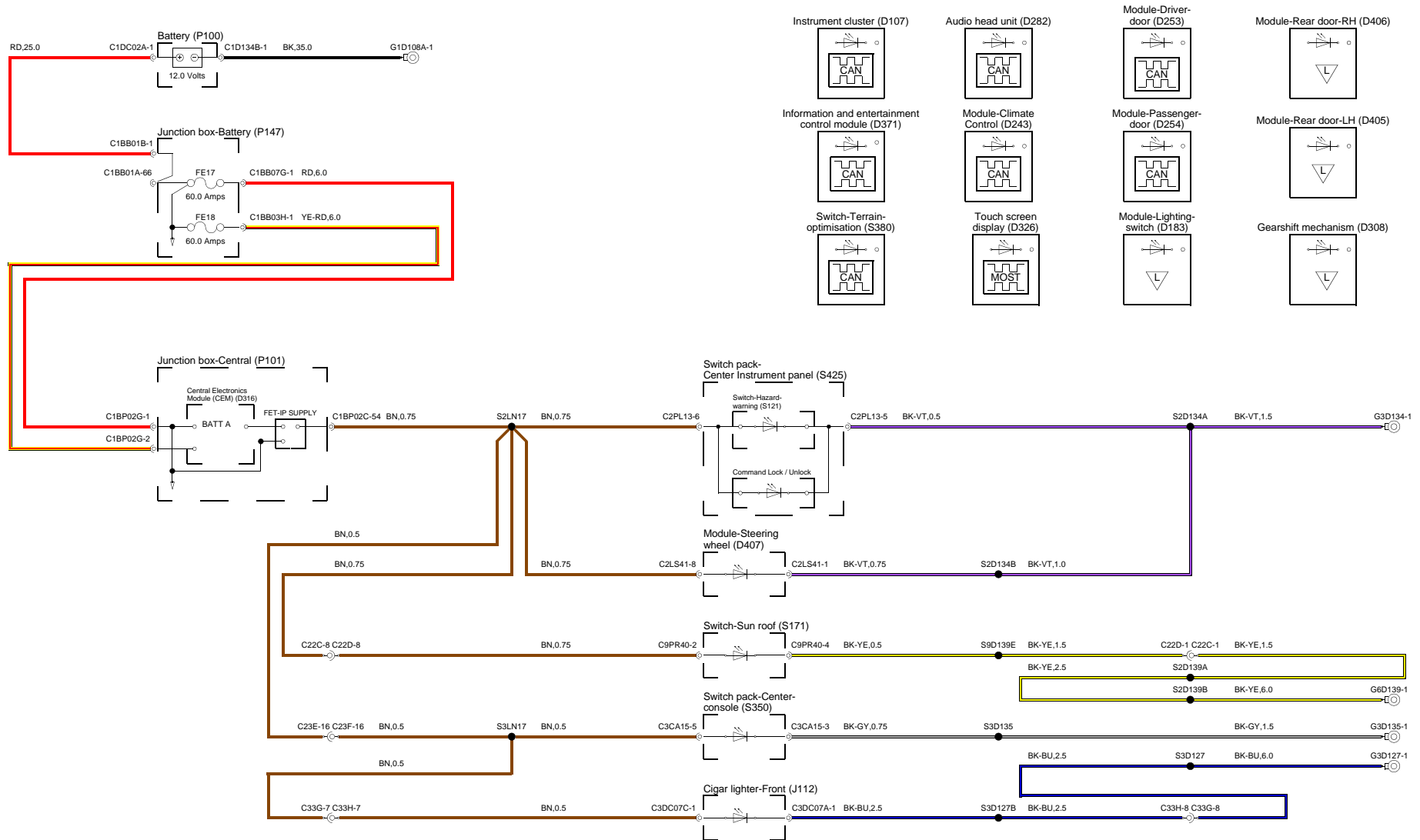


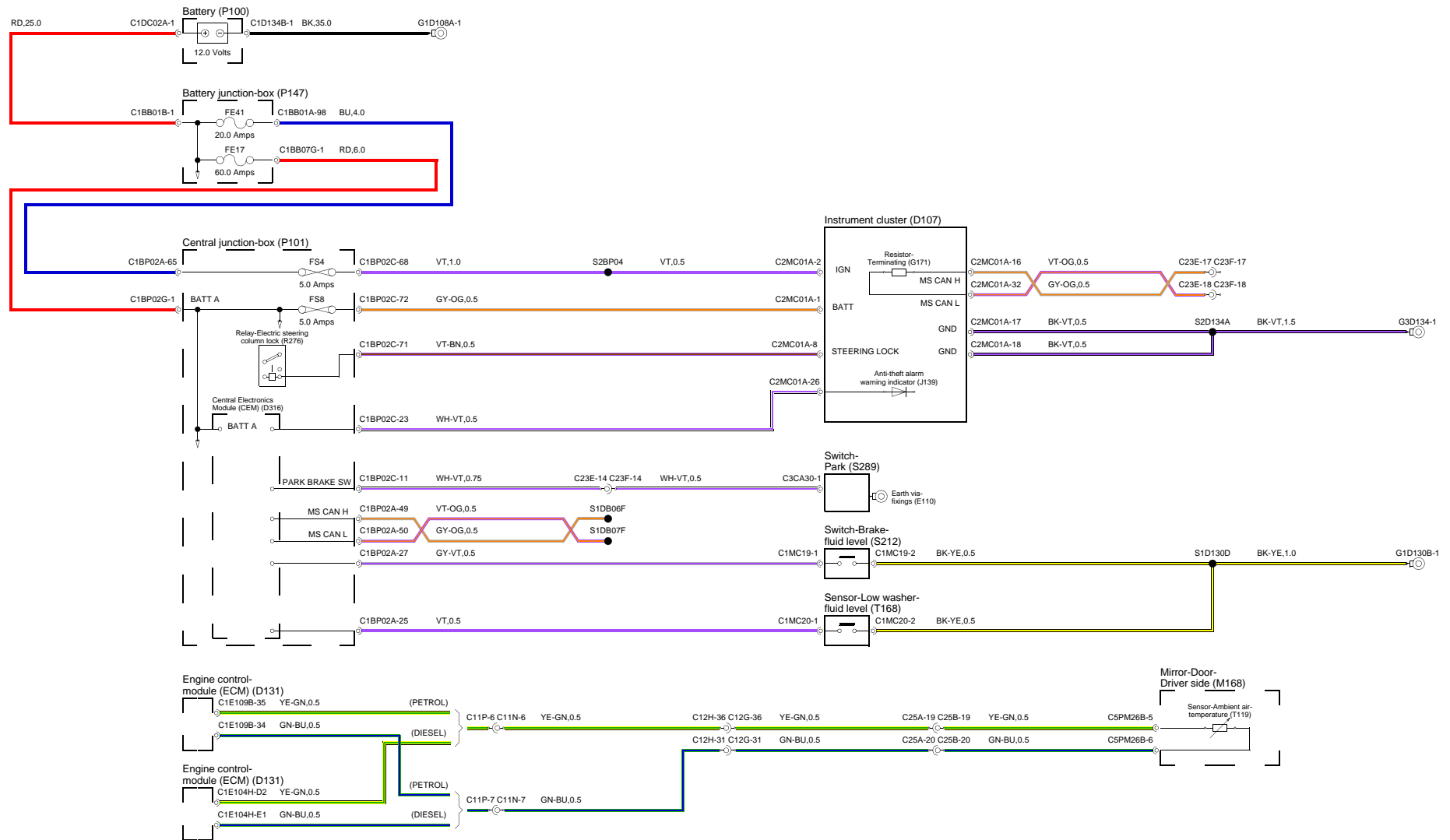


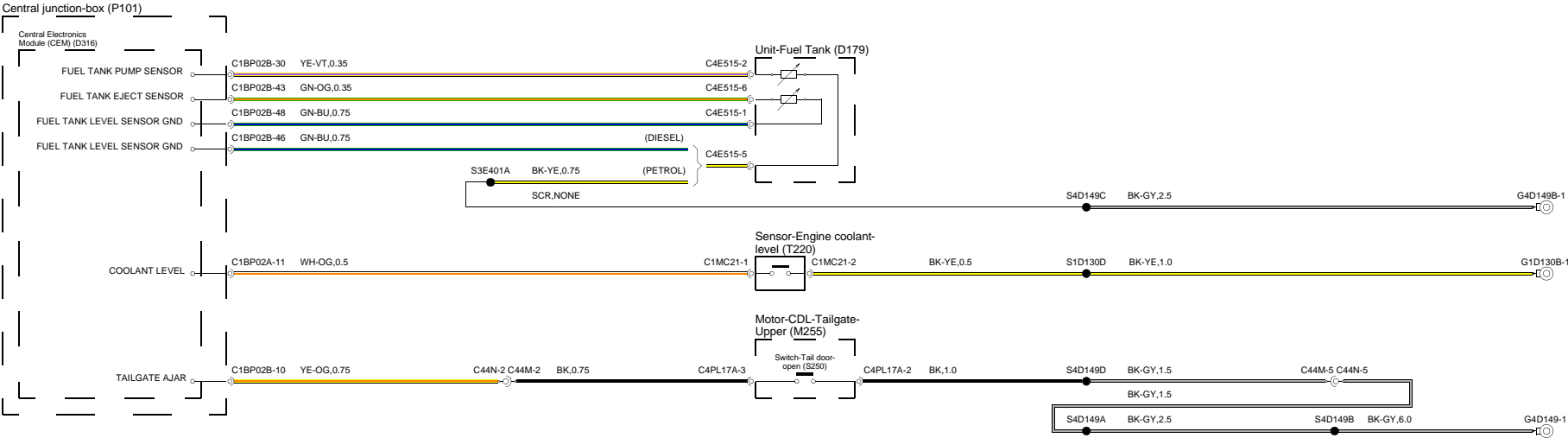




# 413-00 INSTRUMENT CLUSTER AND PANEL ILLUMINATION

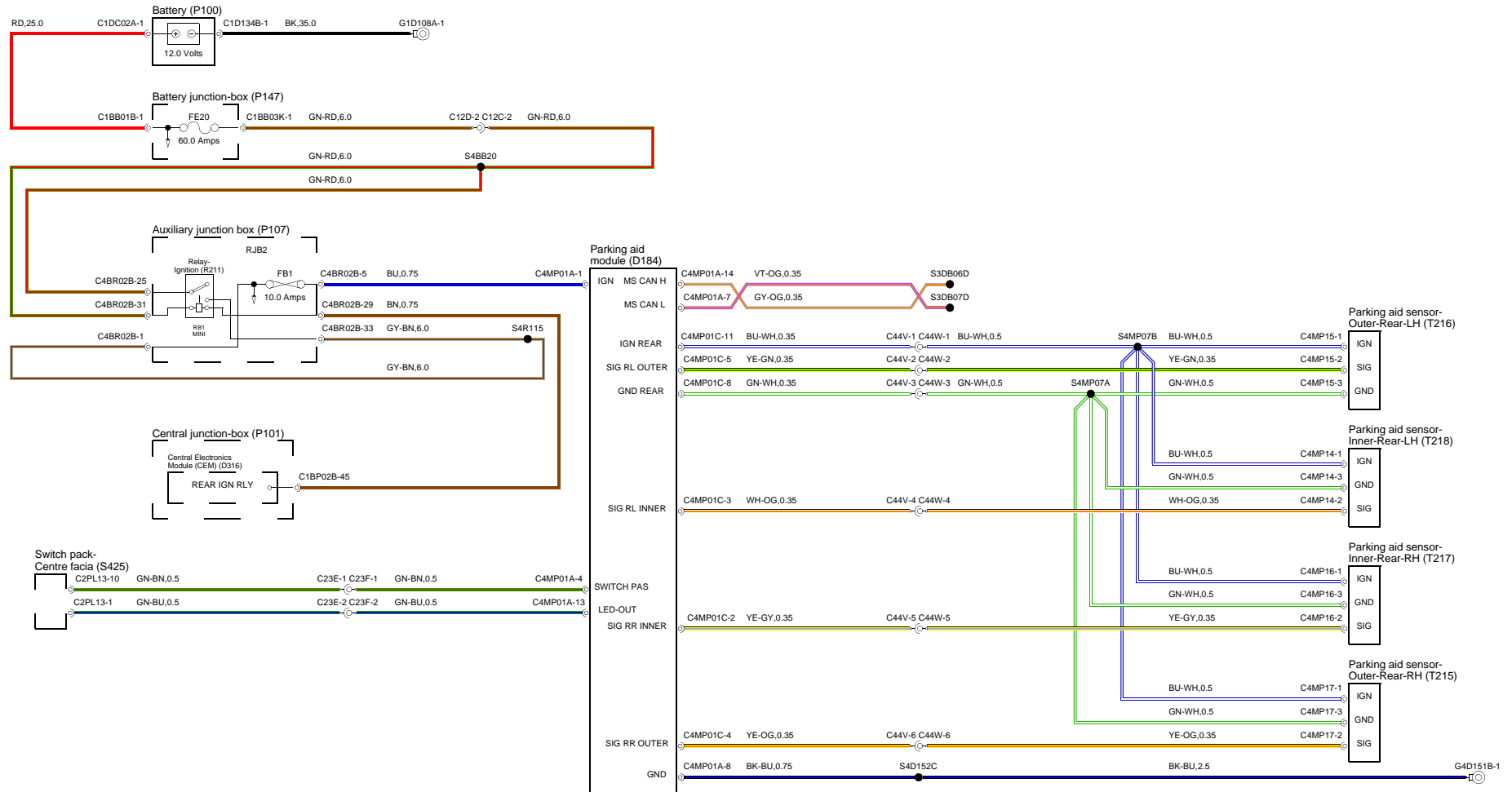


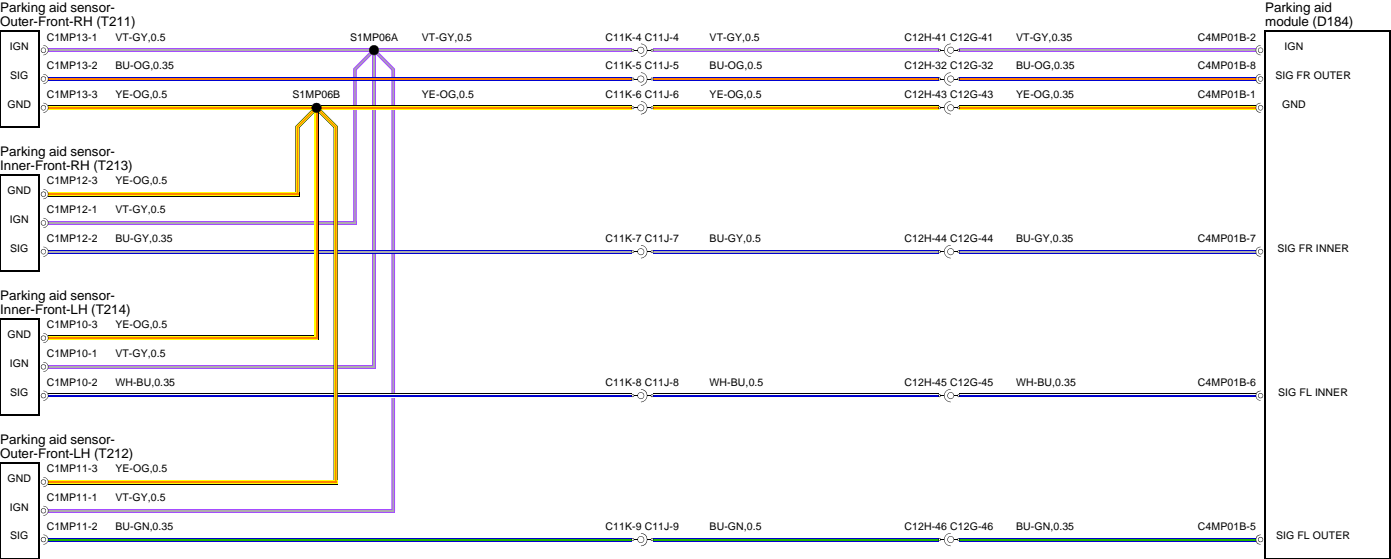


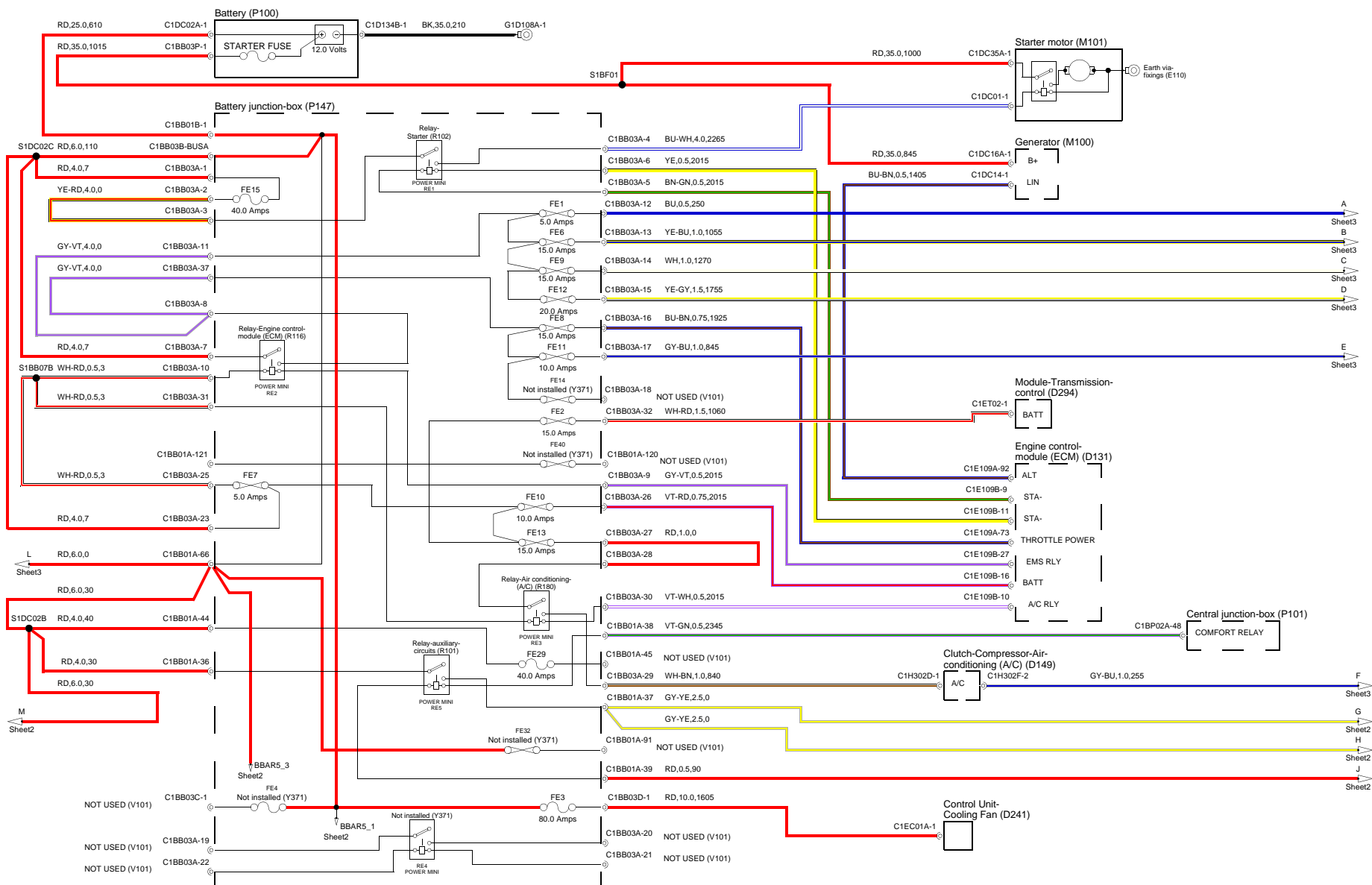


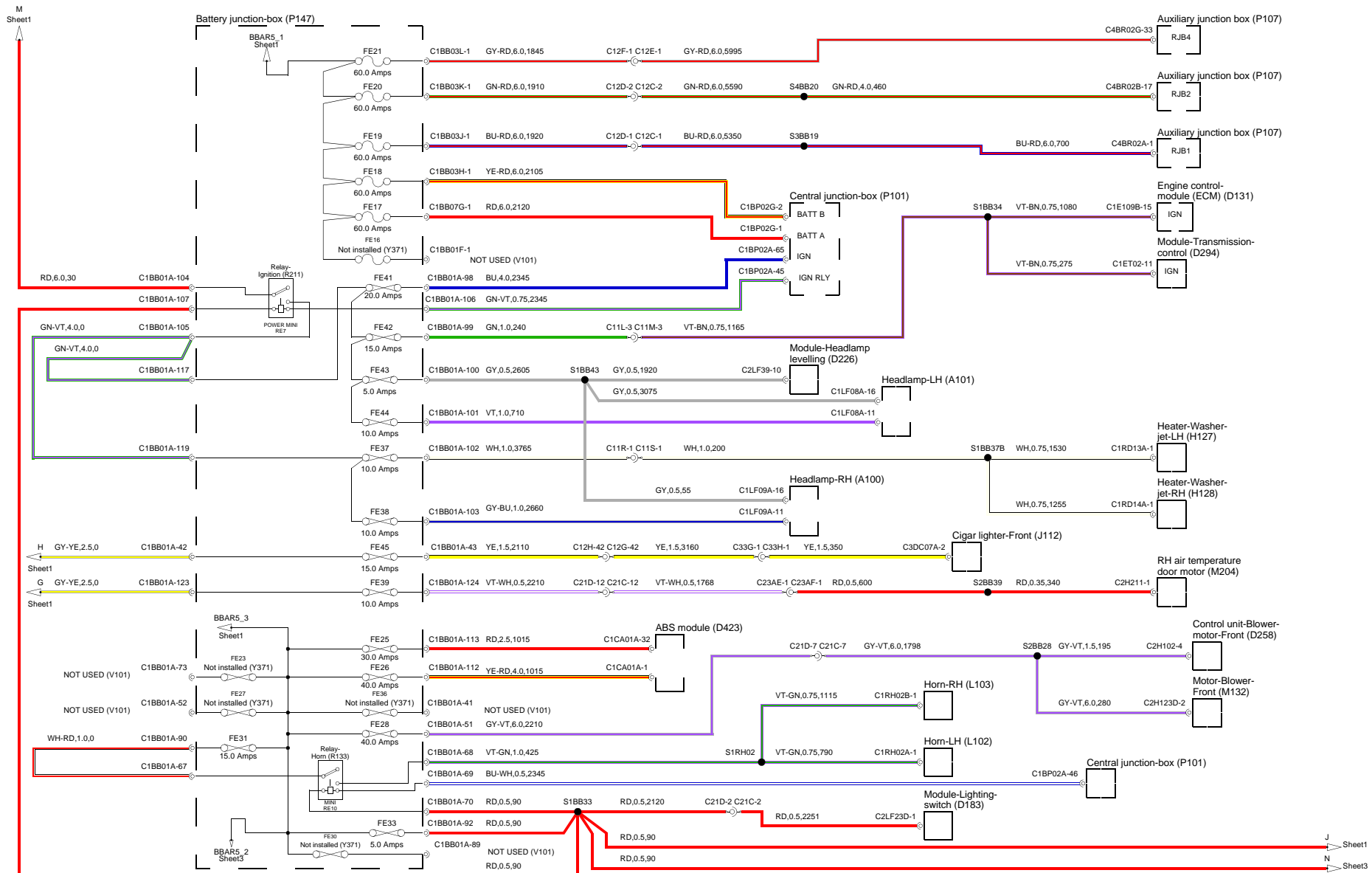


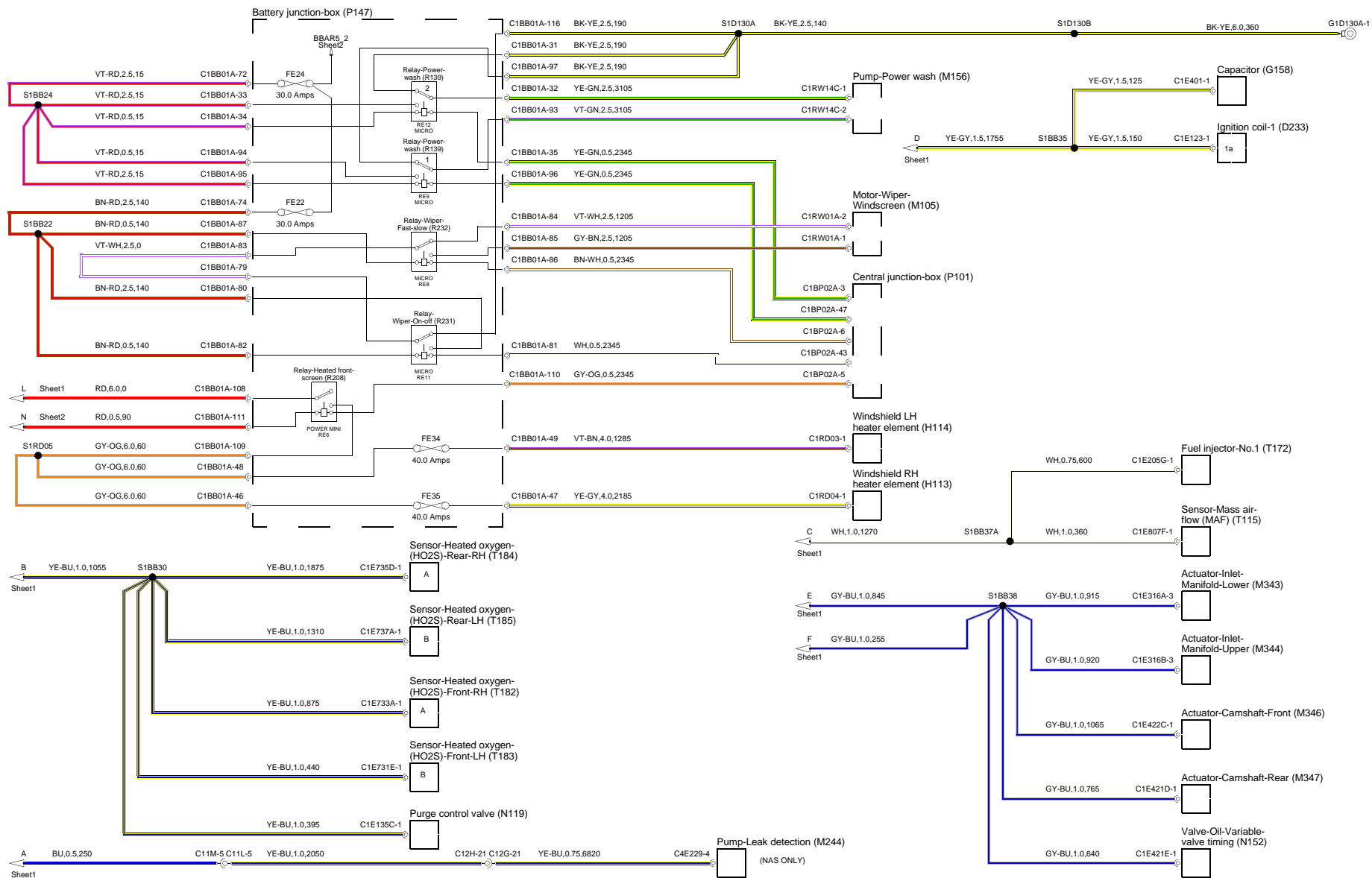
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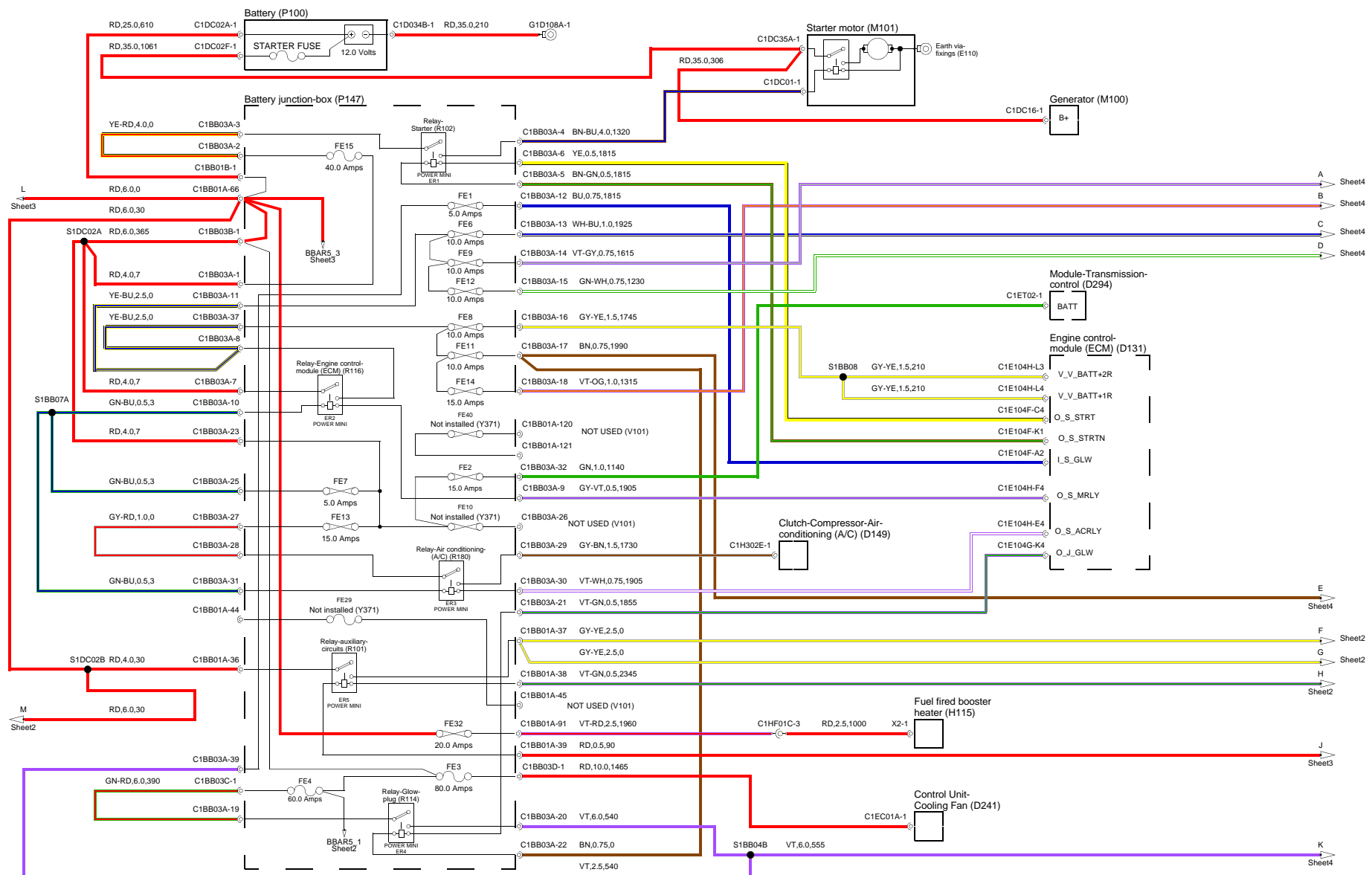


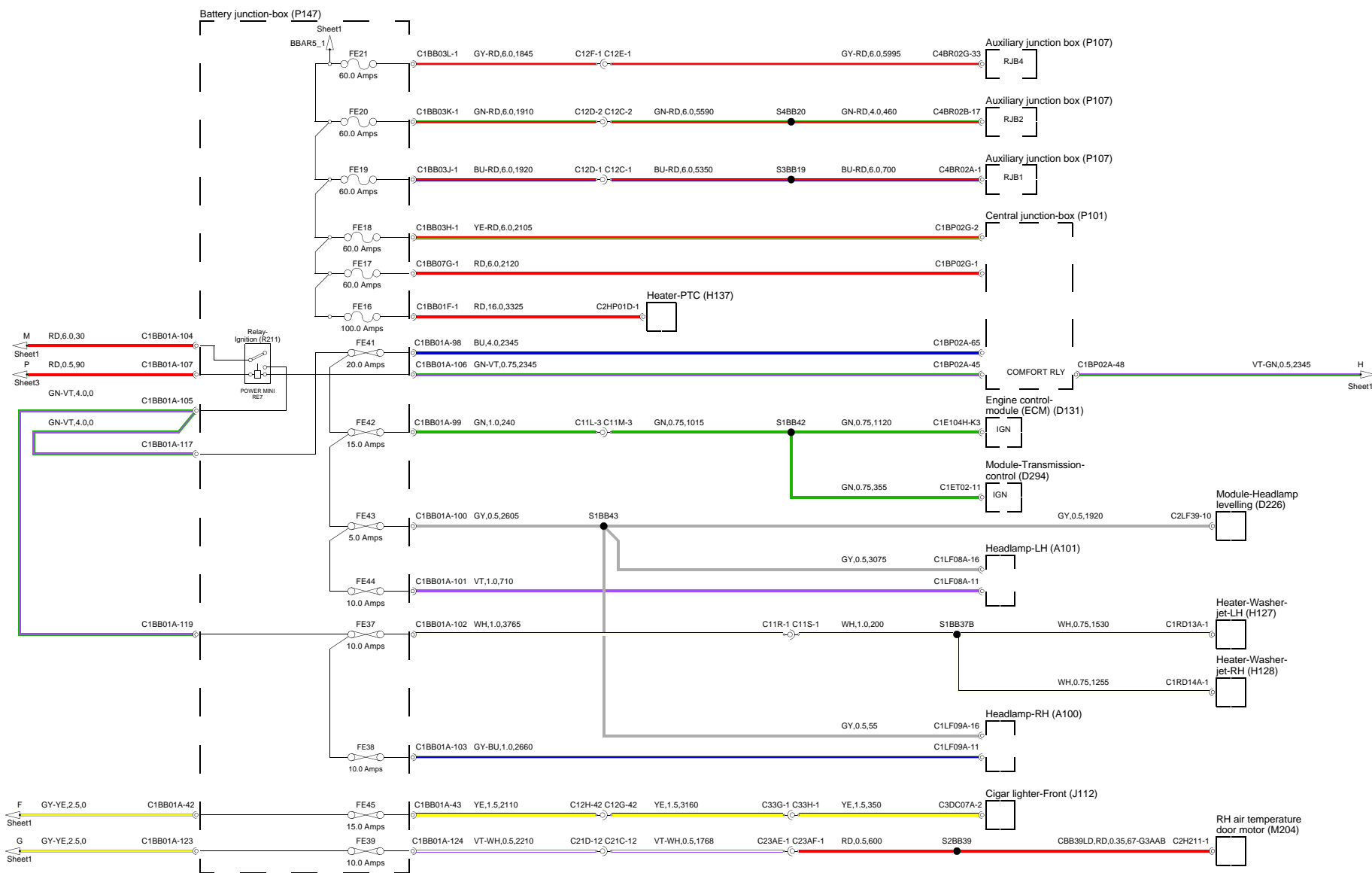


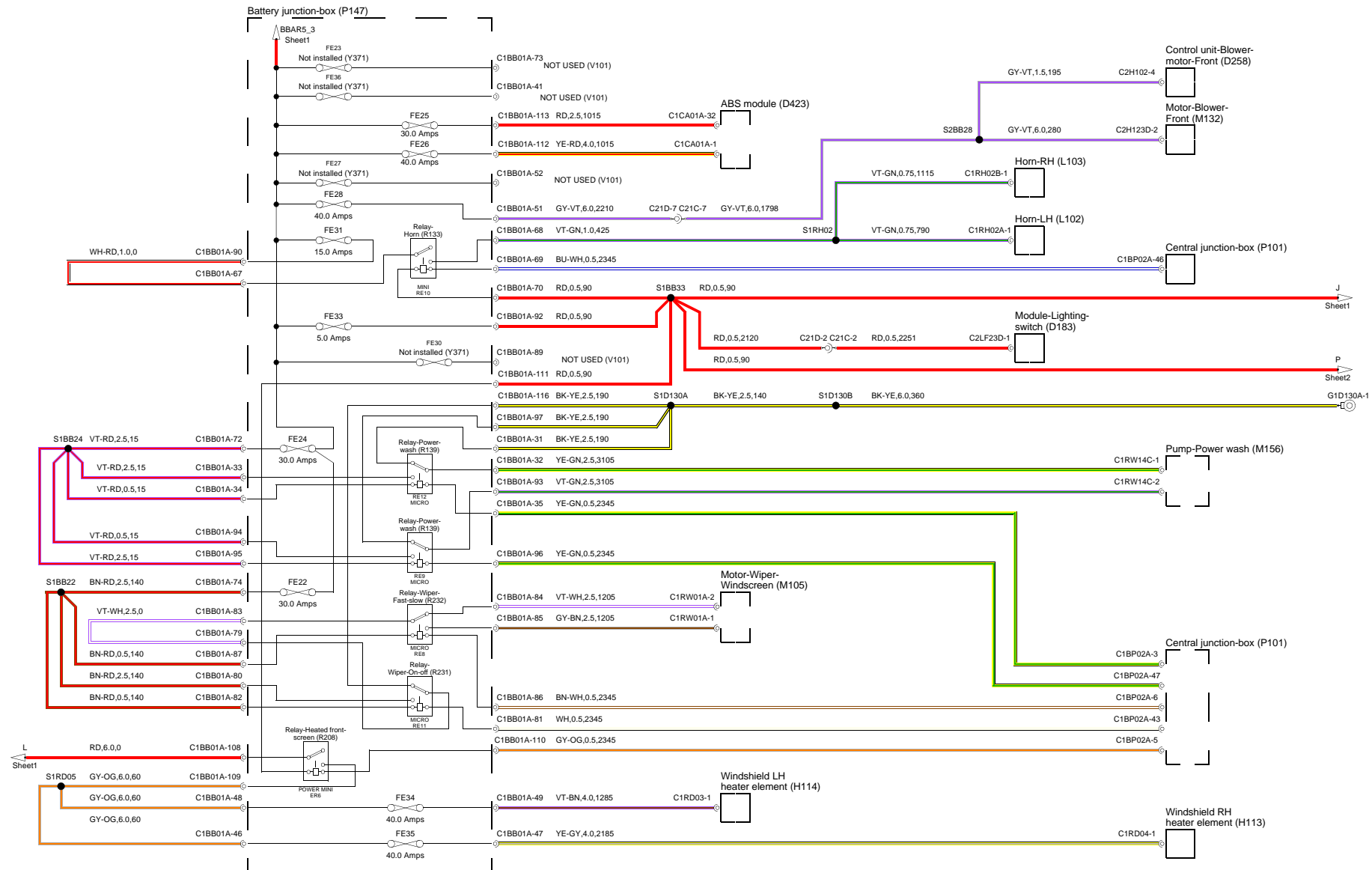




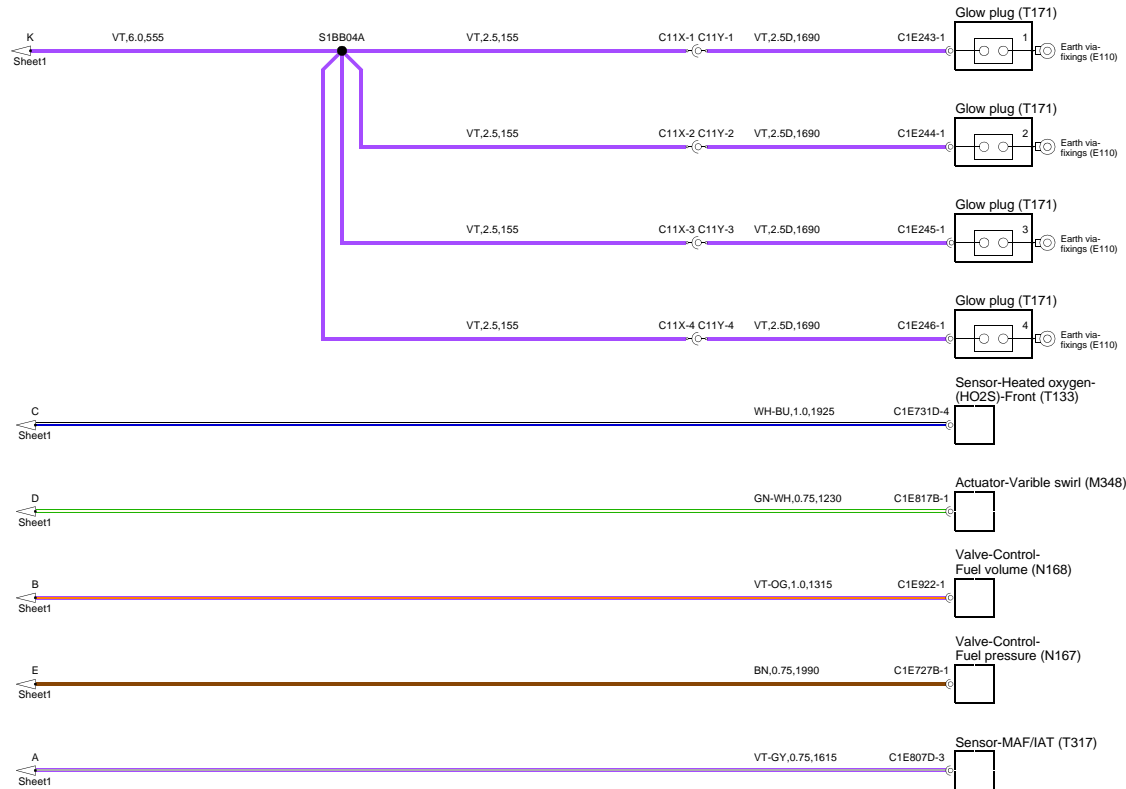


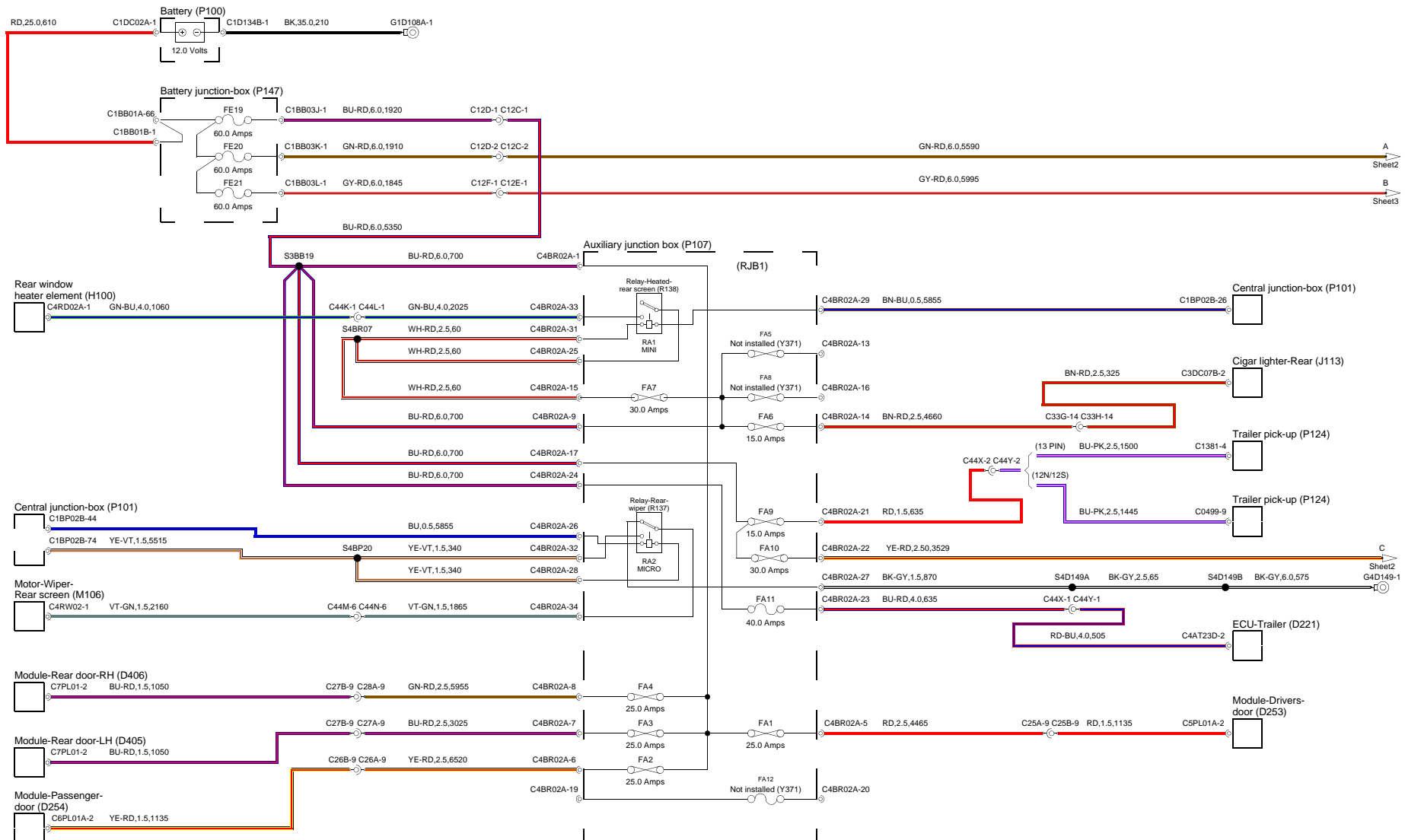


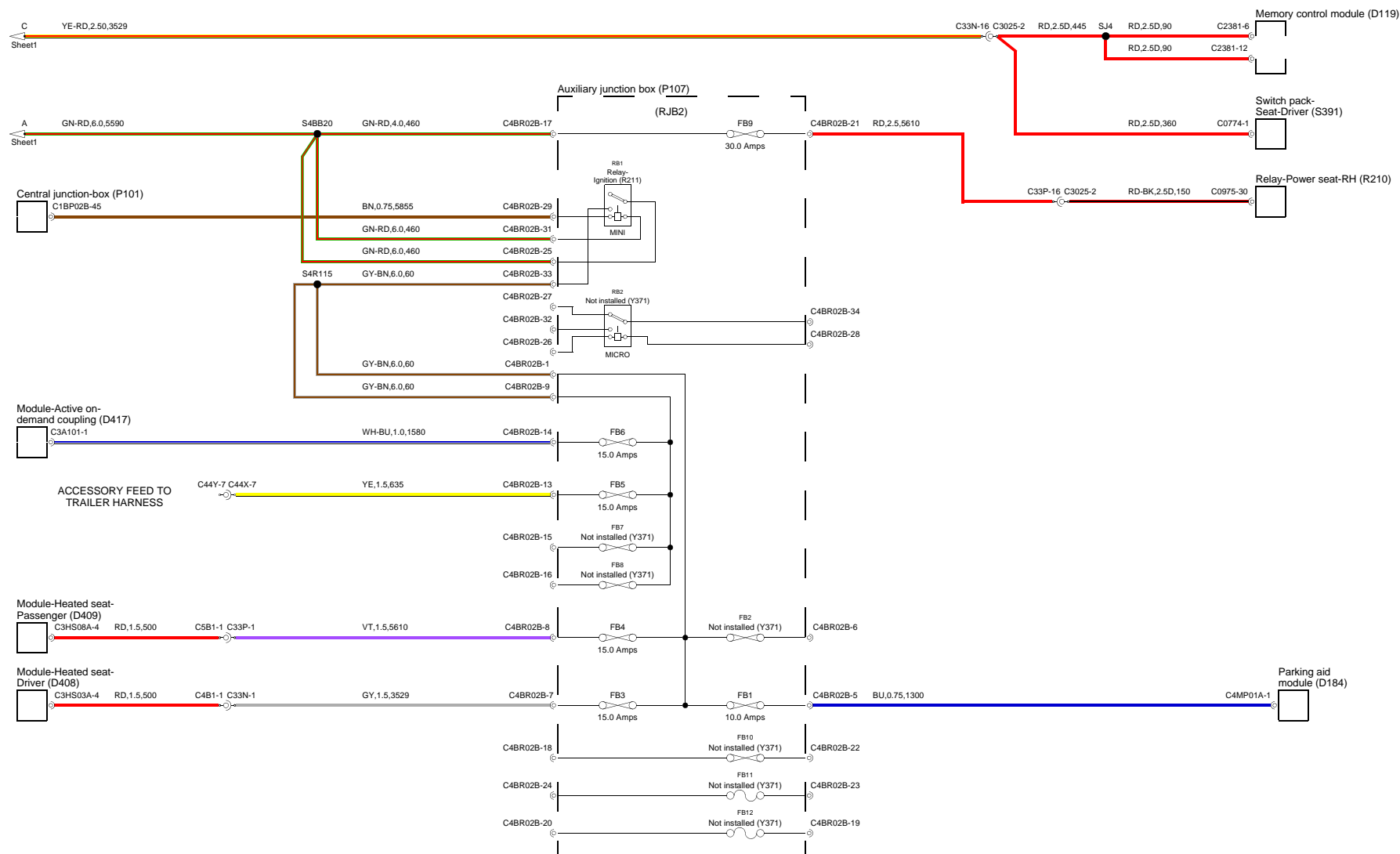


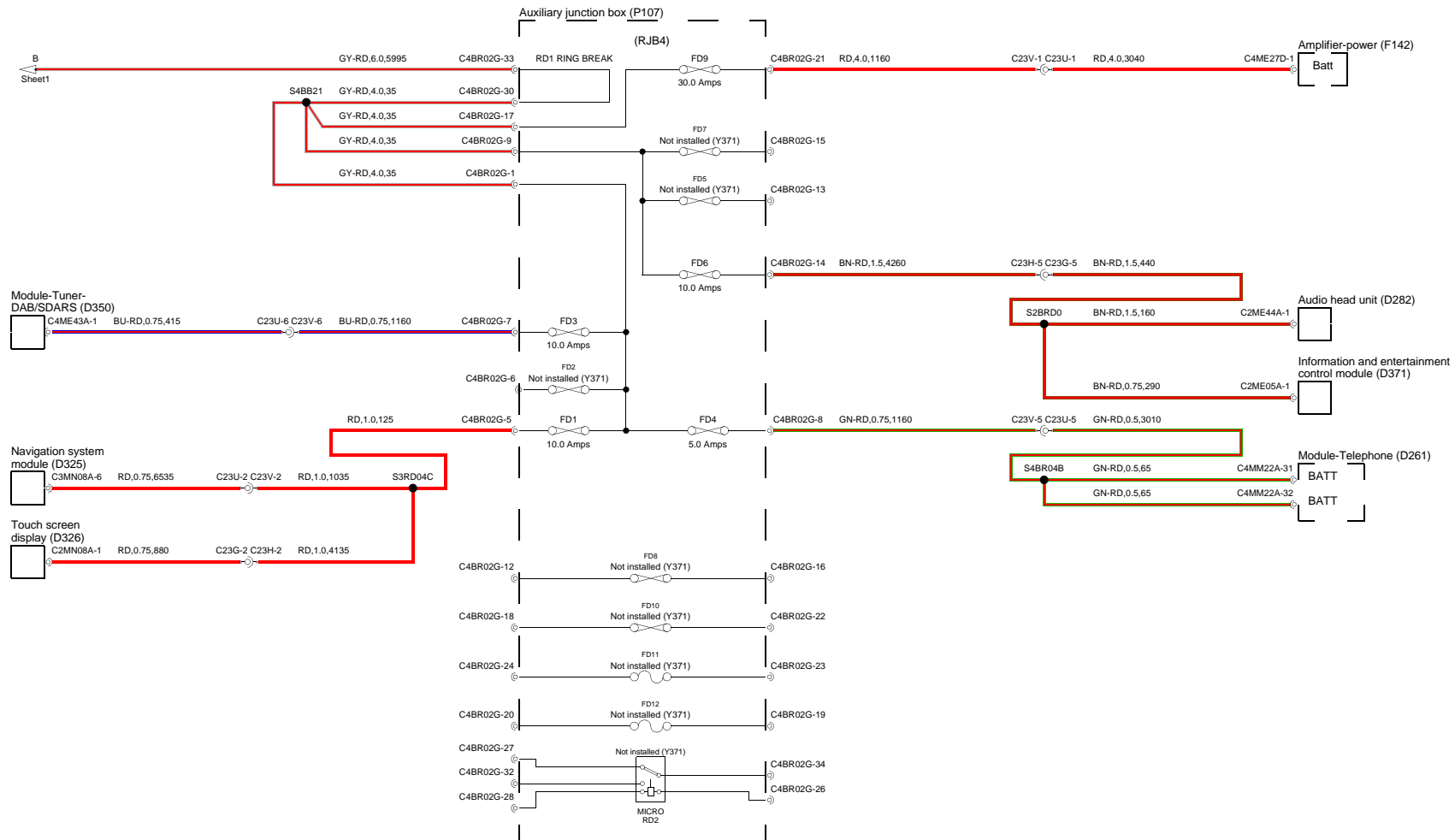


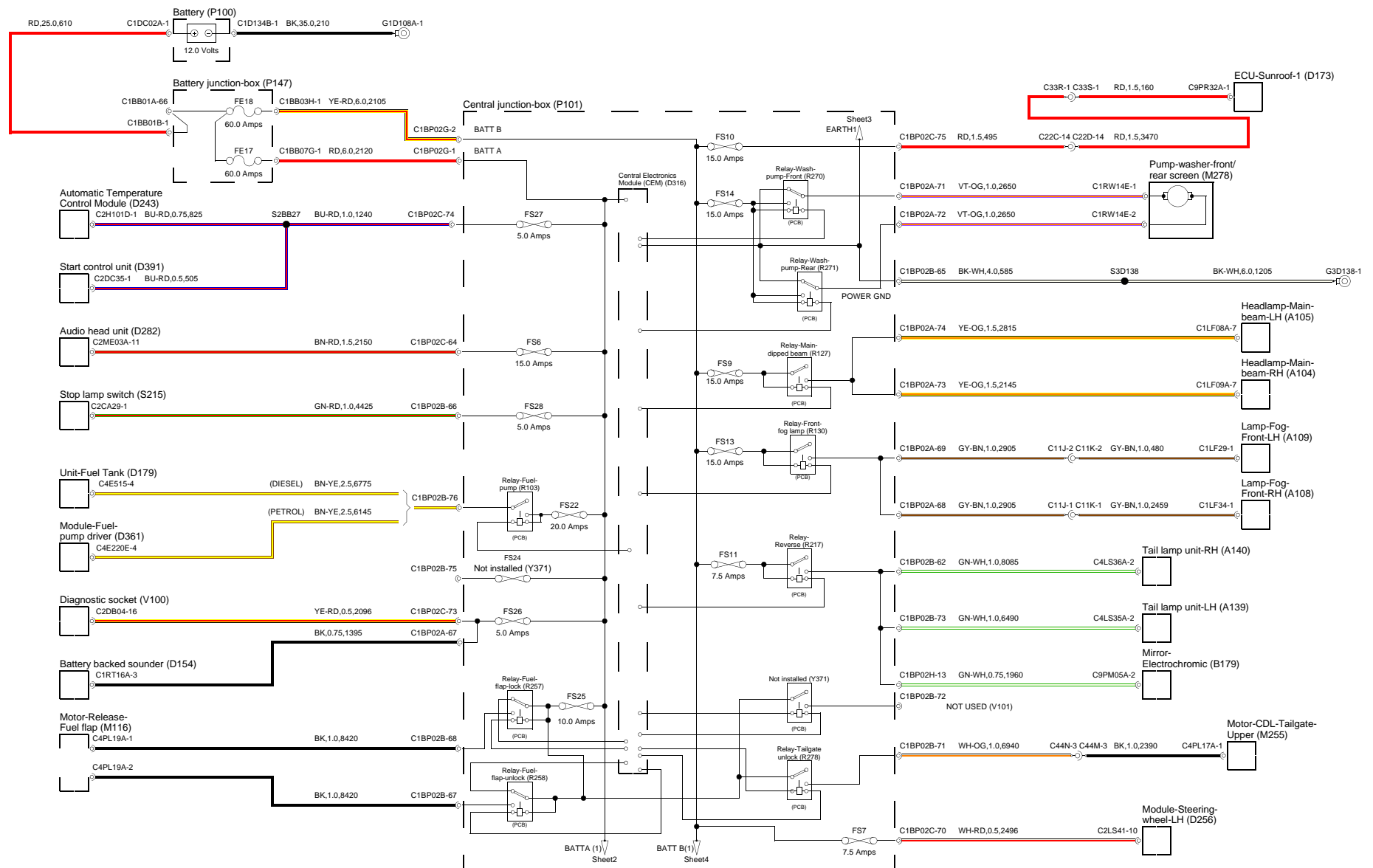


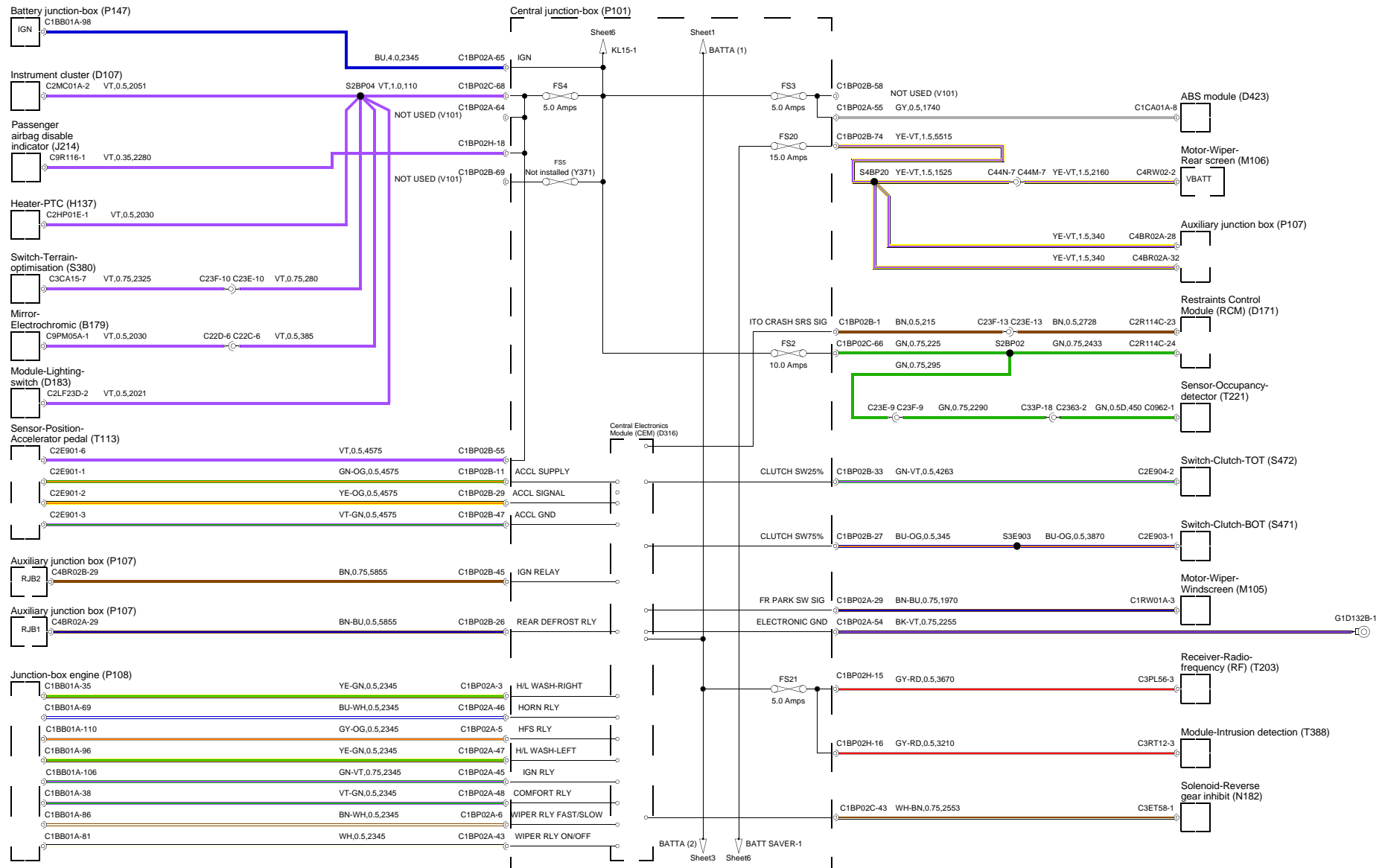


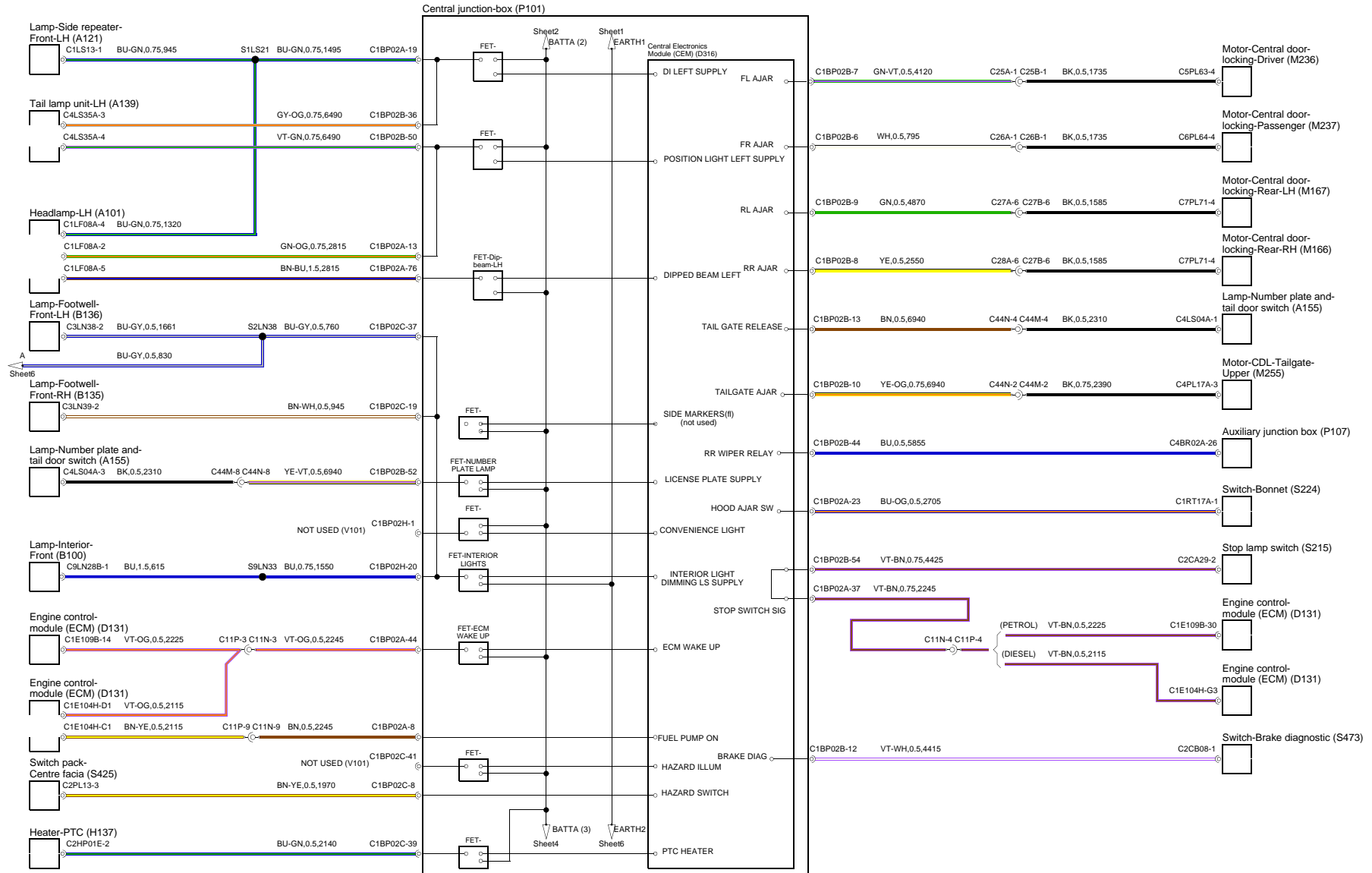


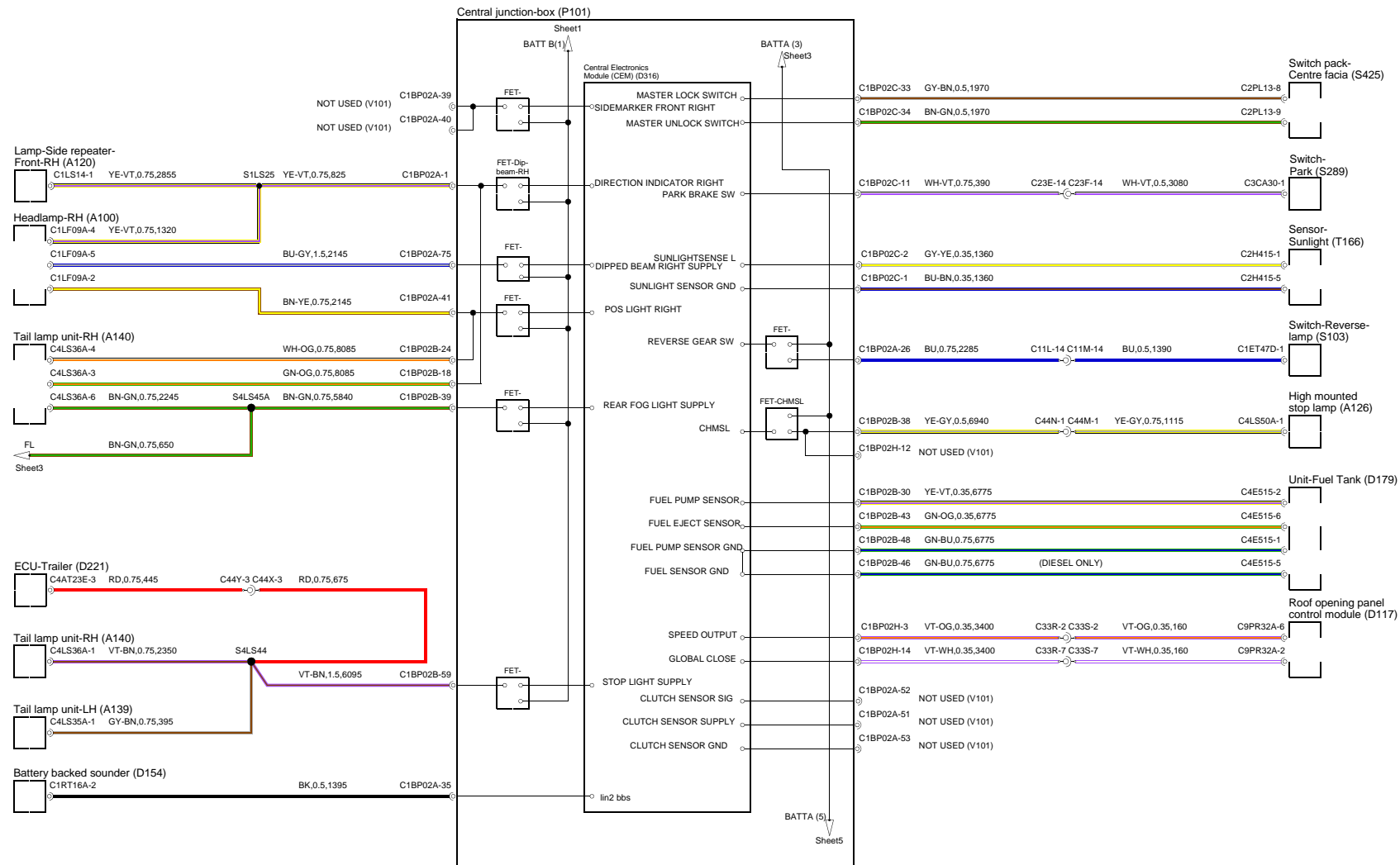




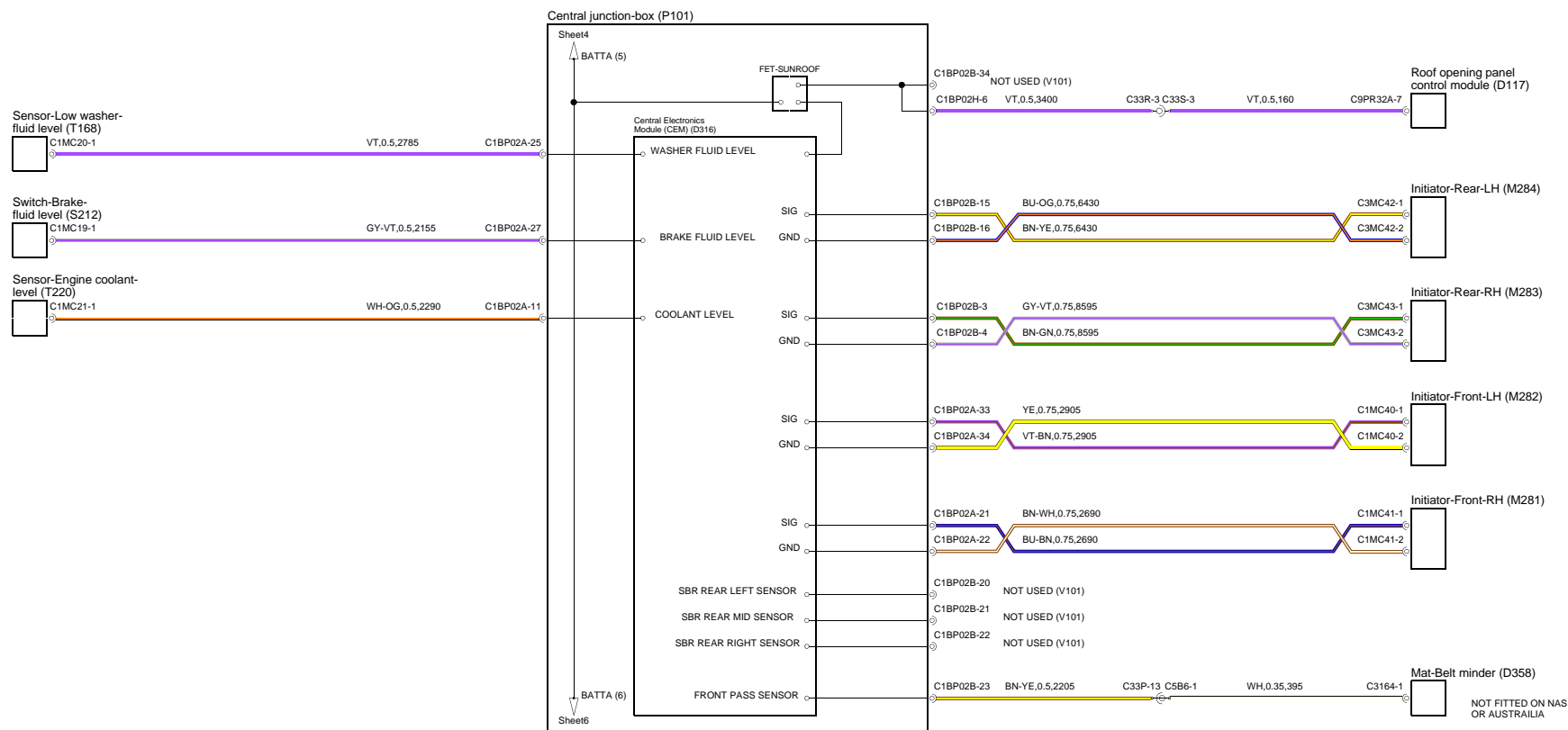


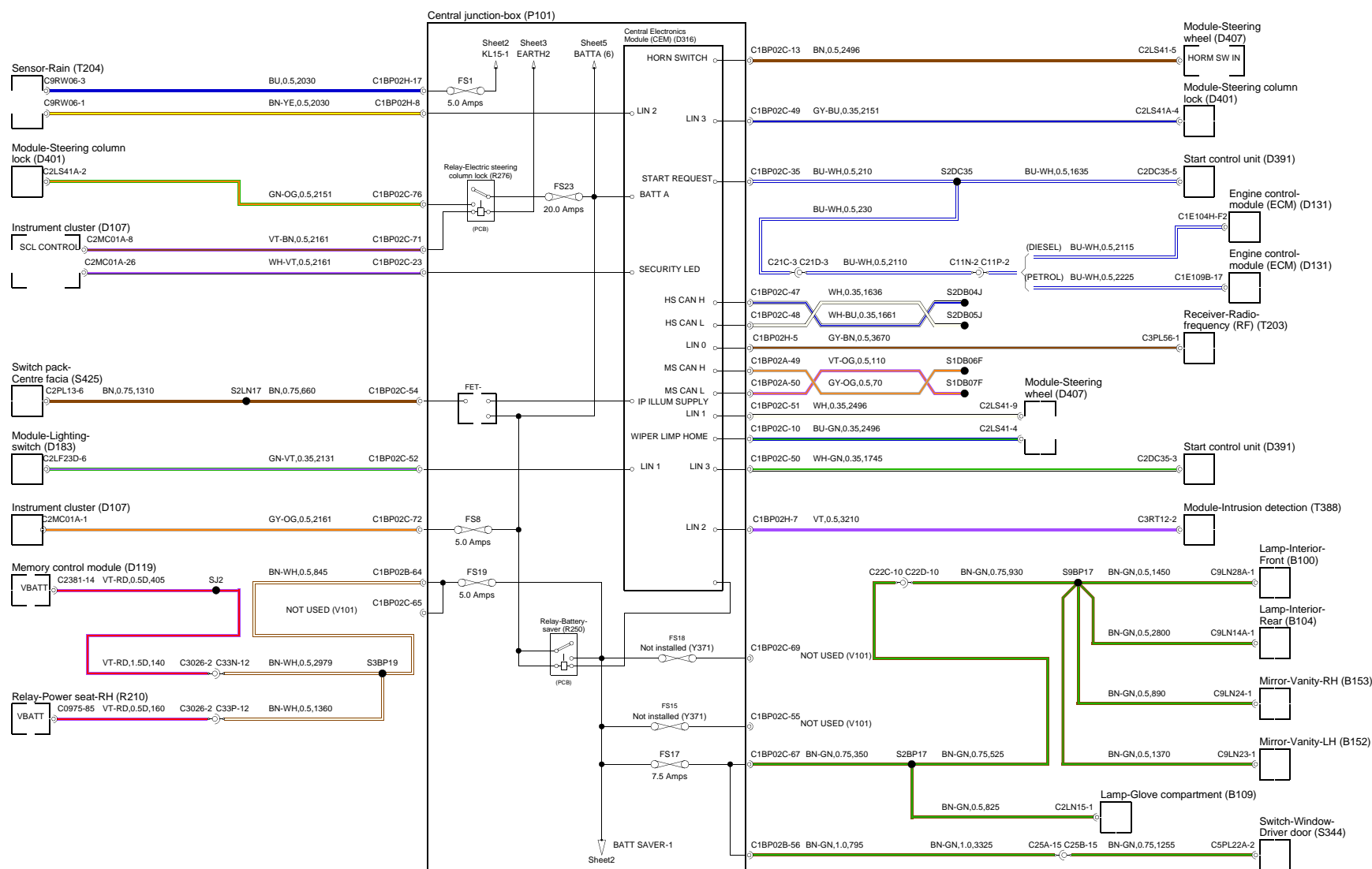


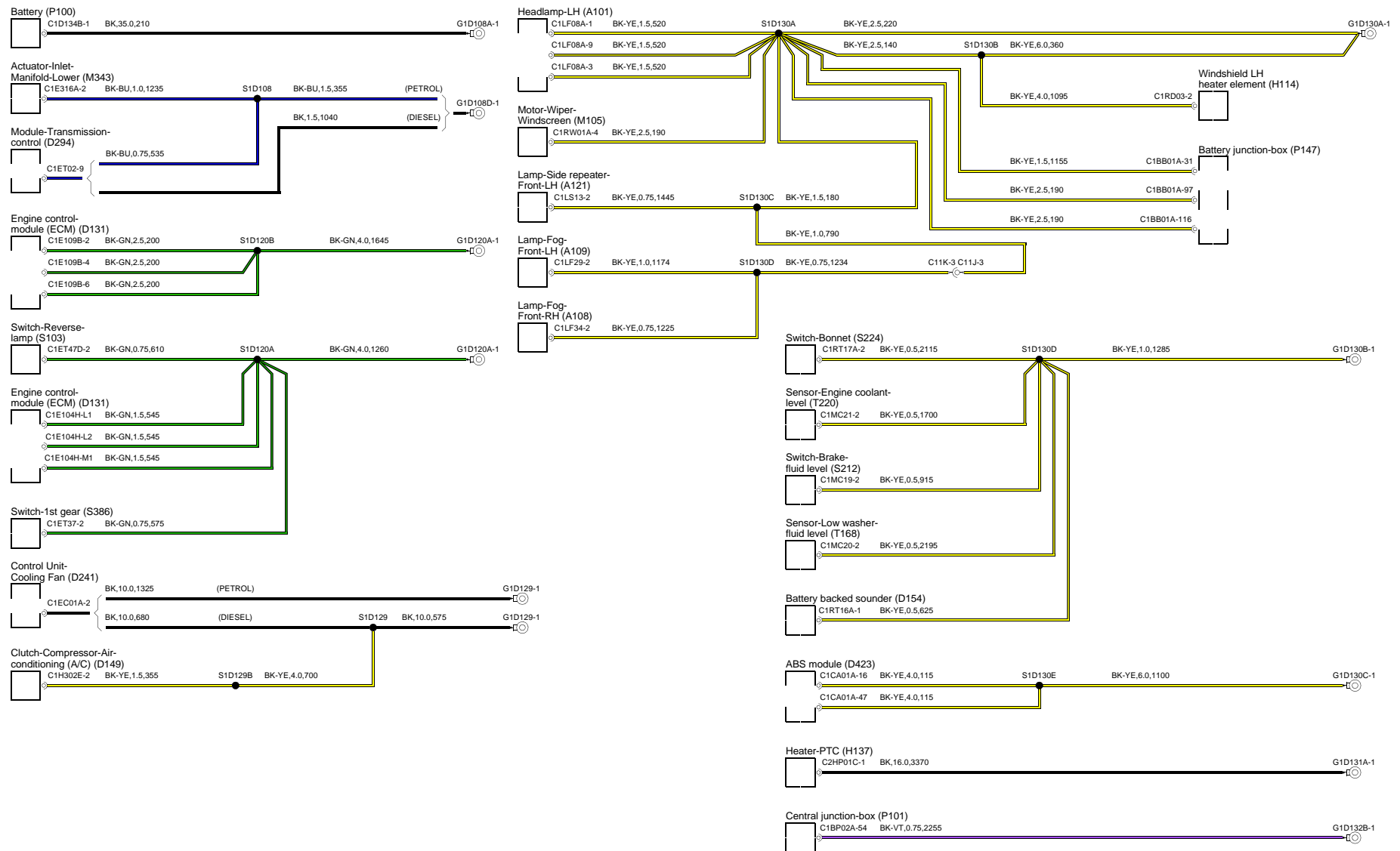


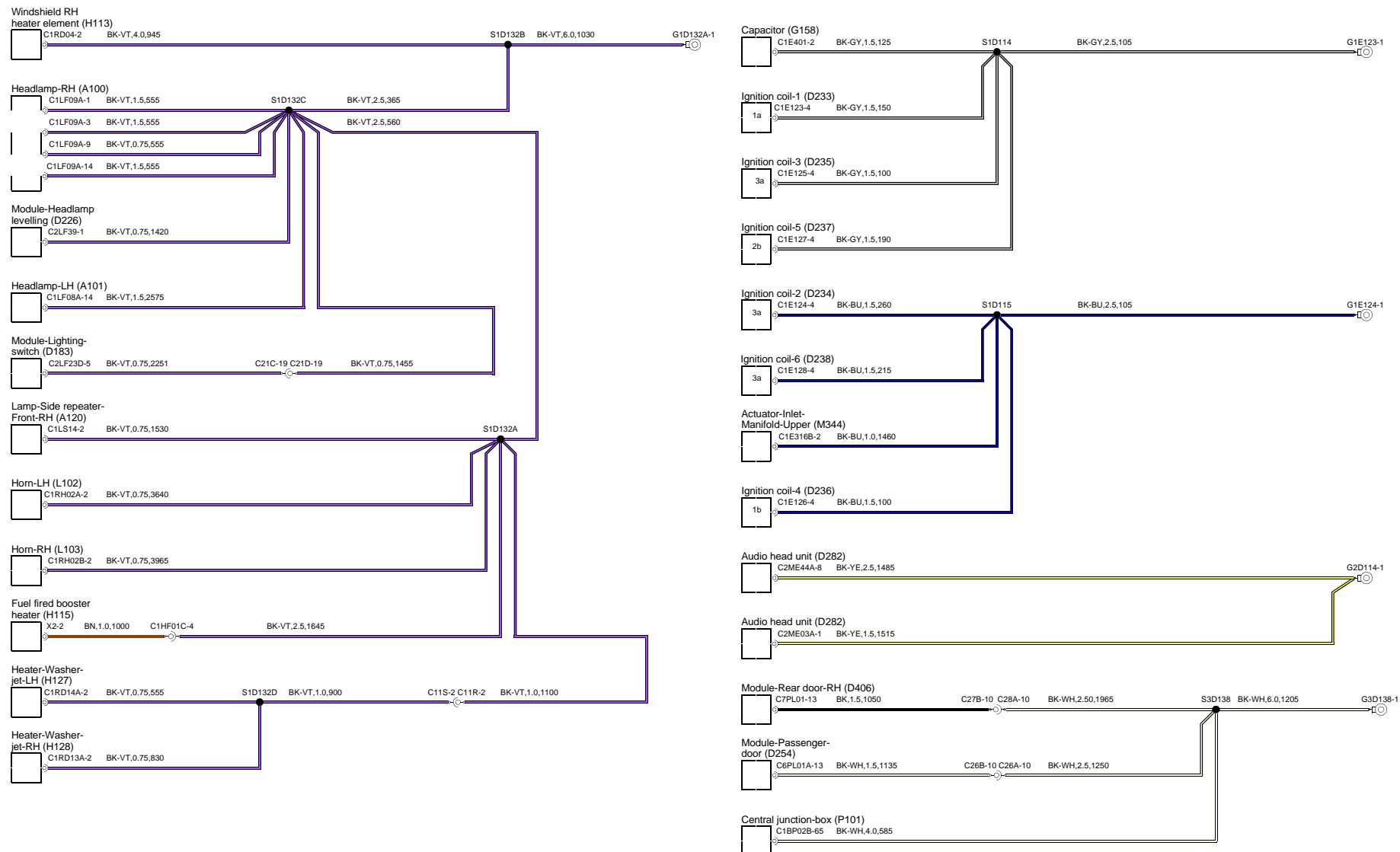


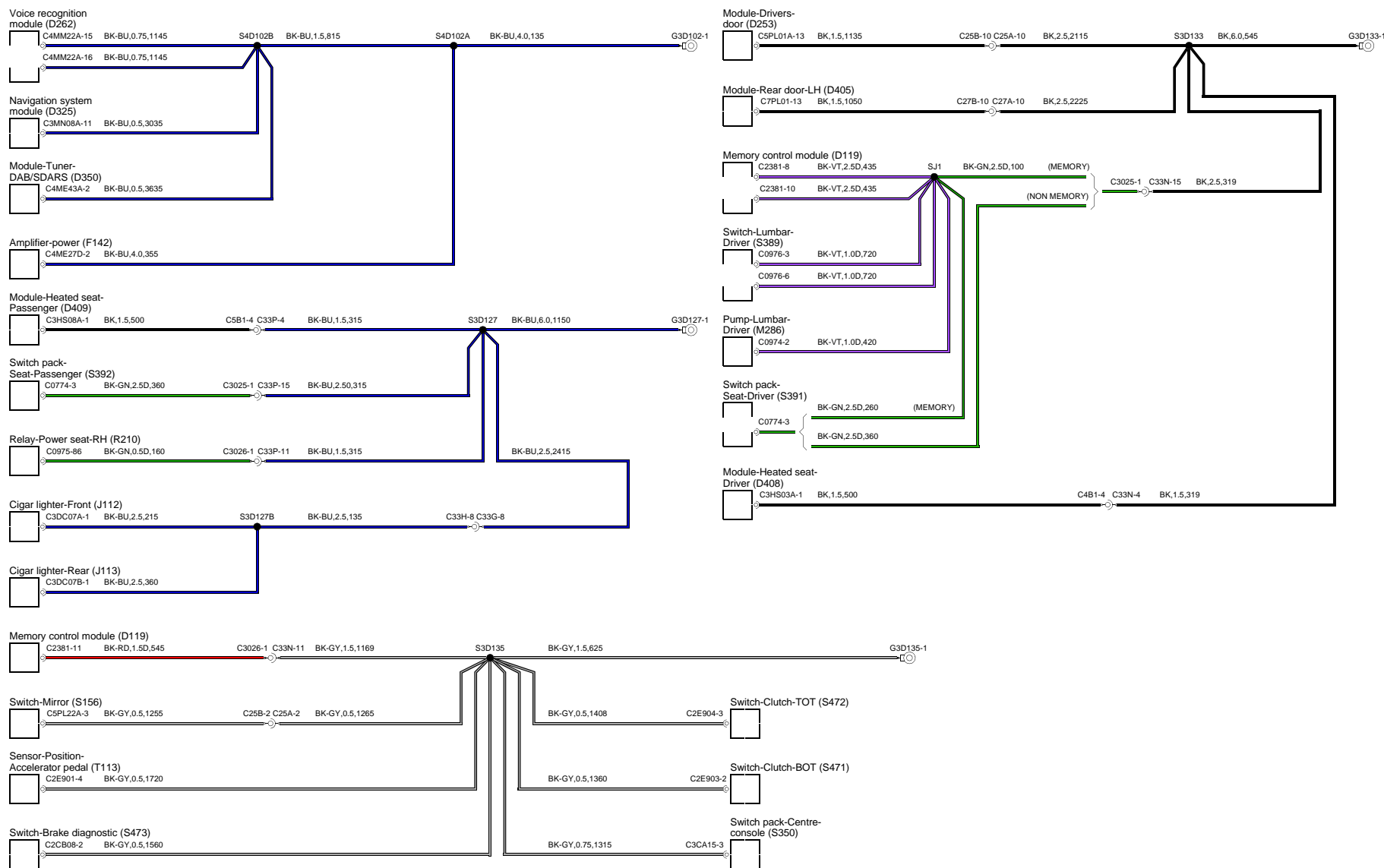


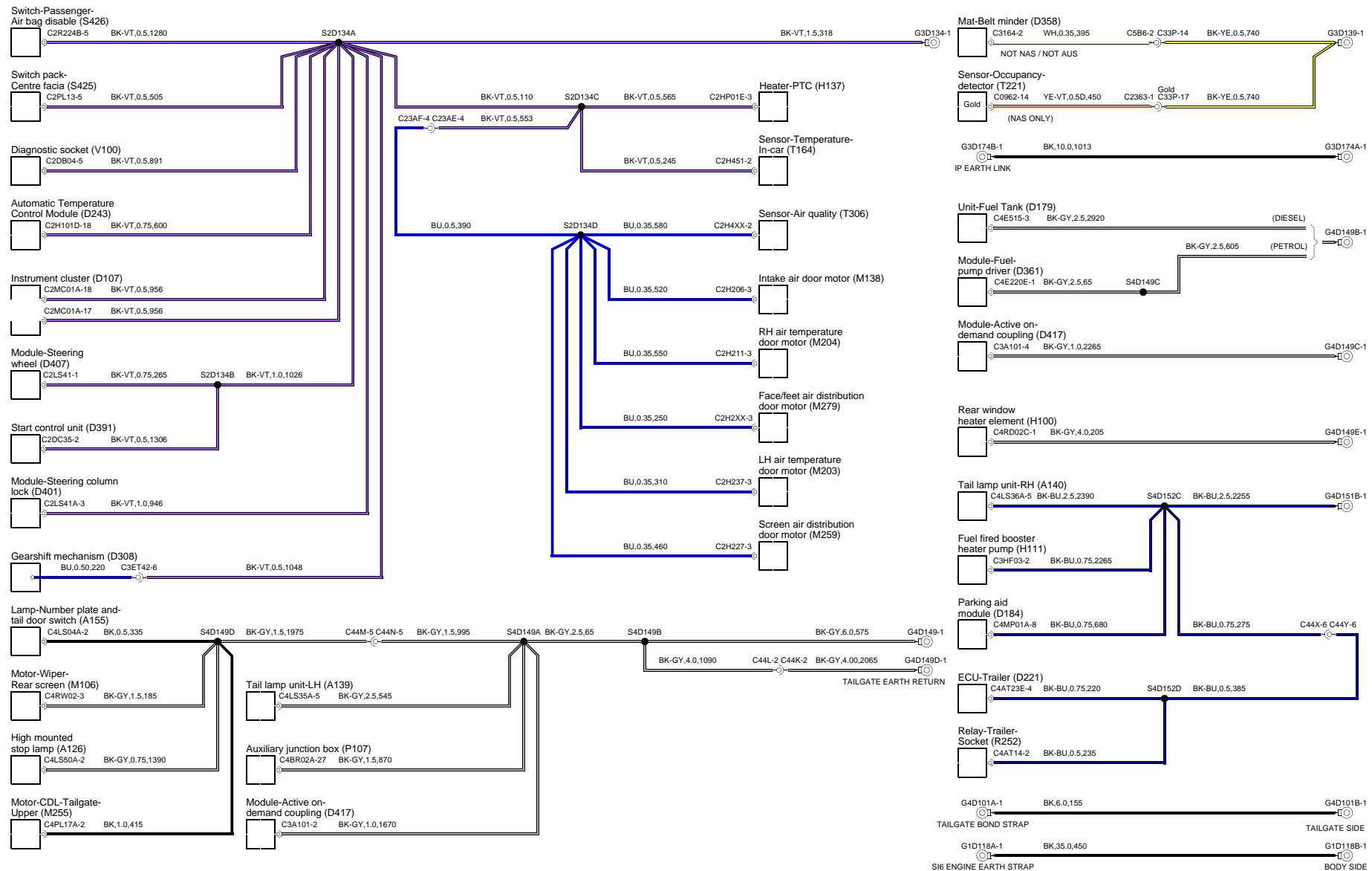


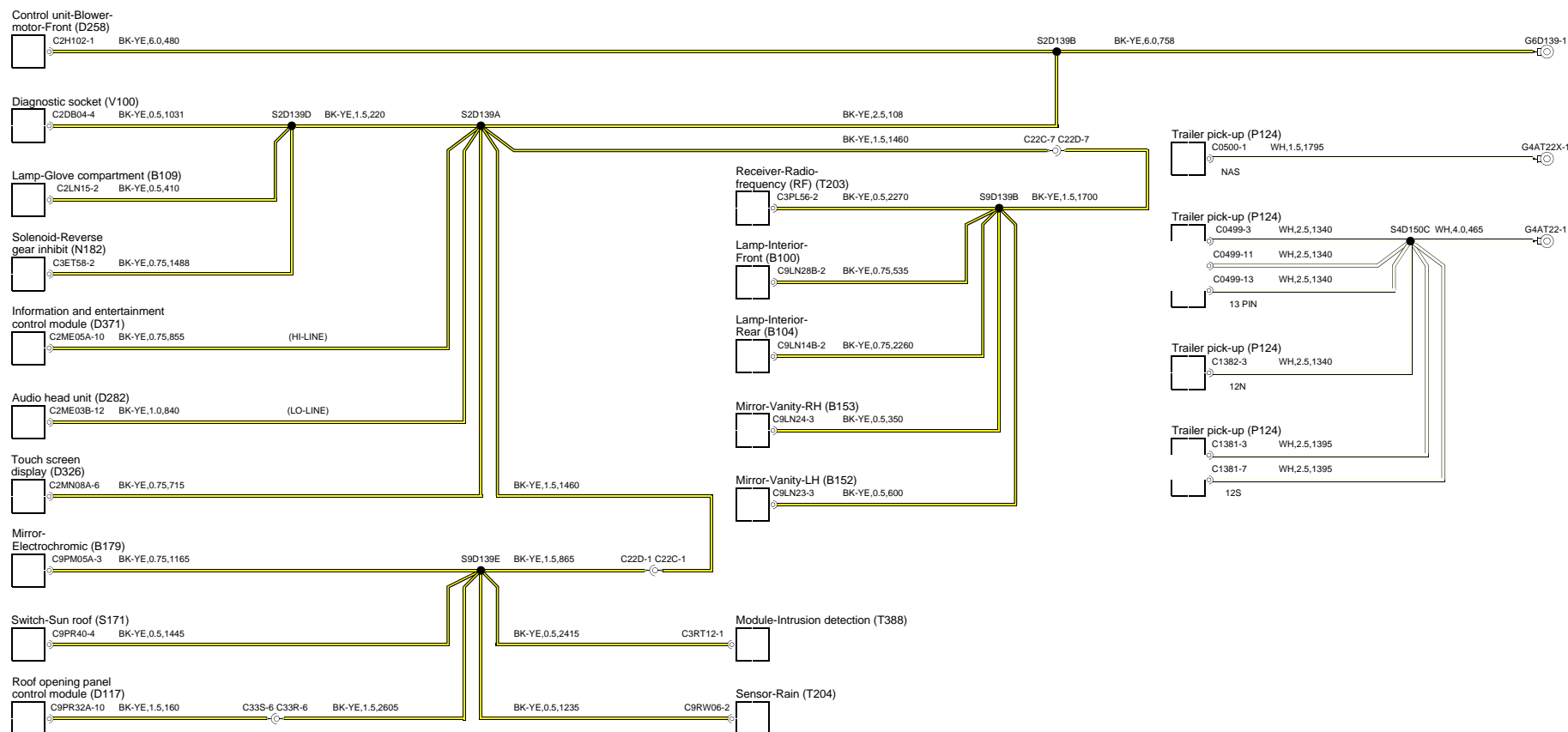


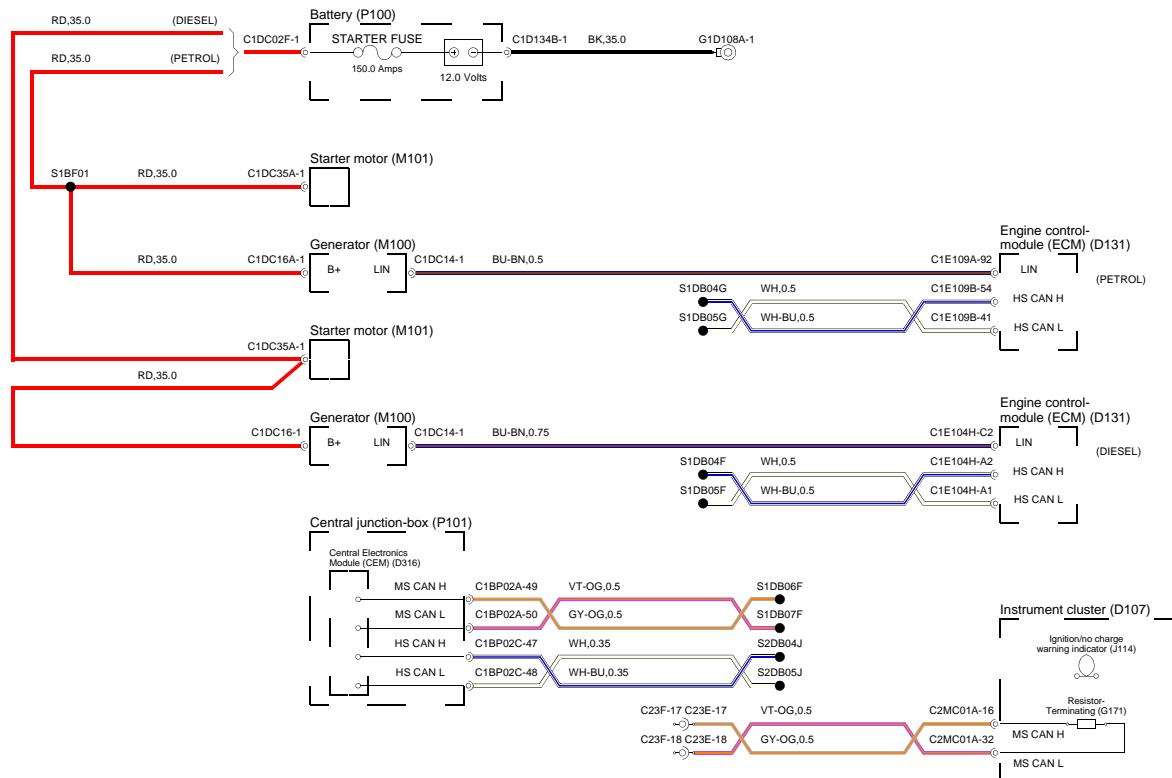




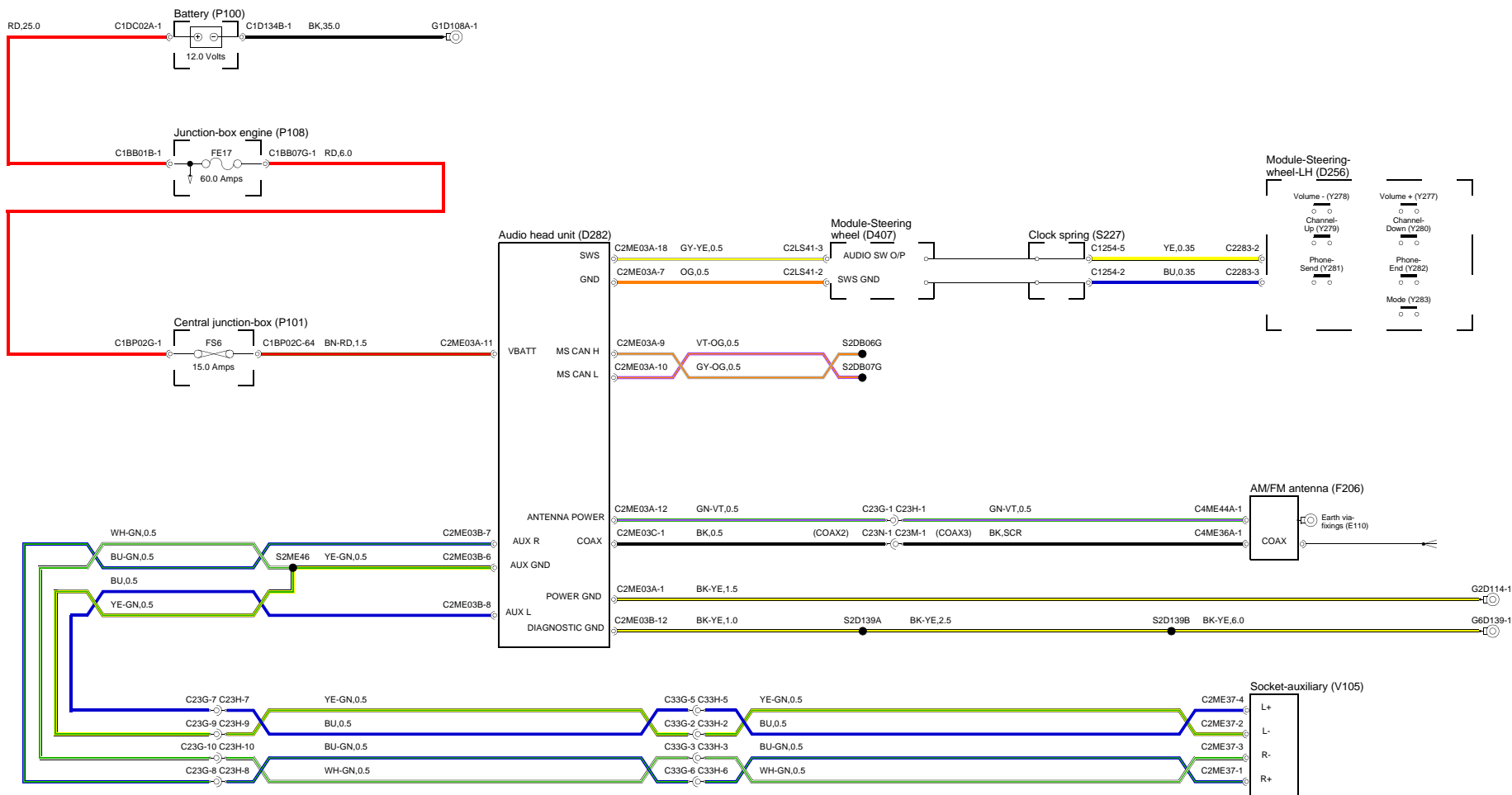


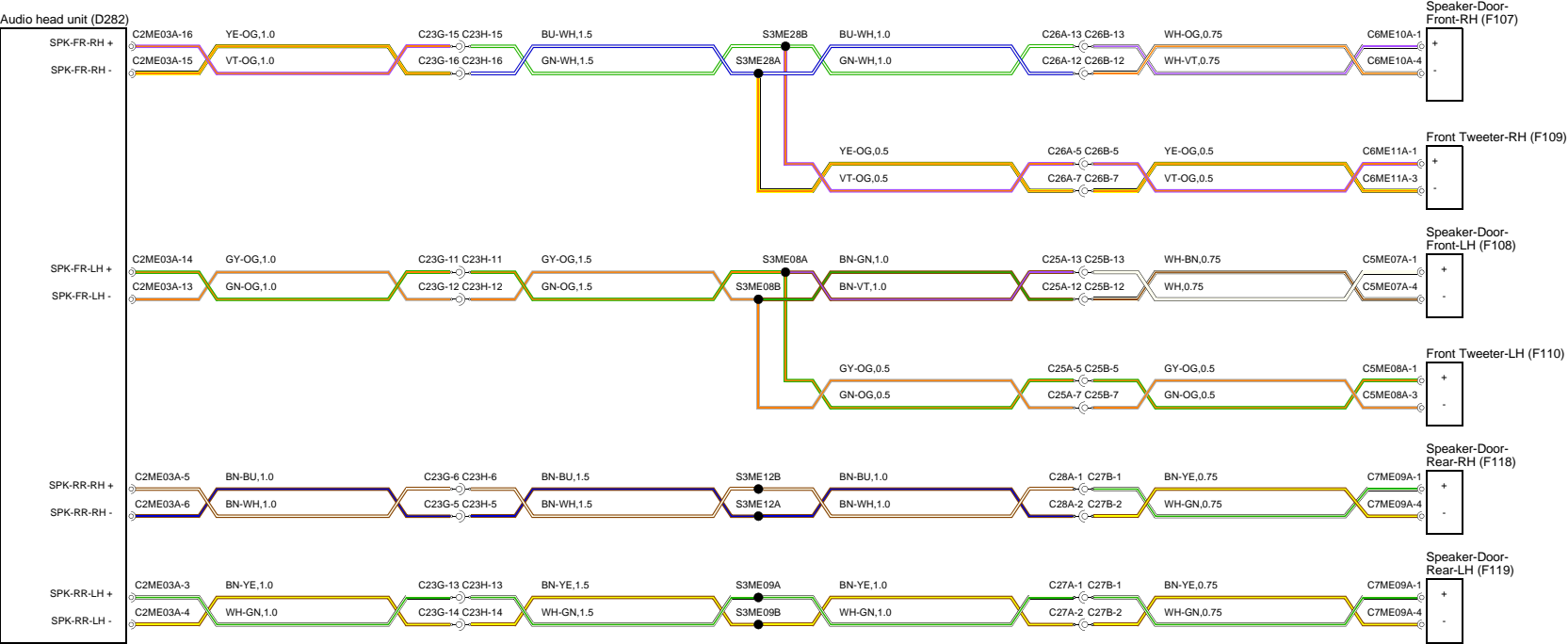


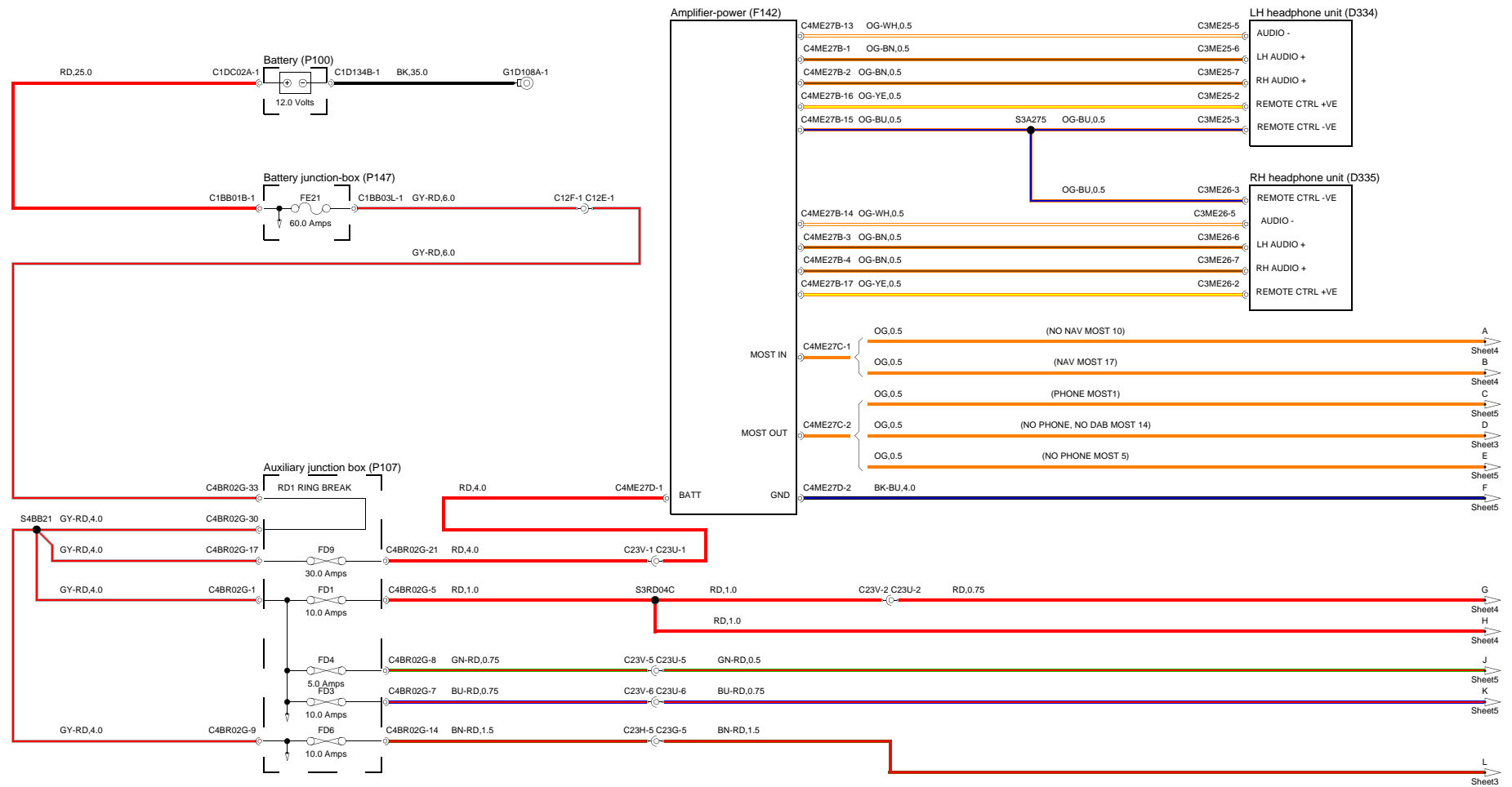


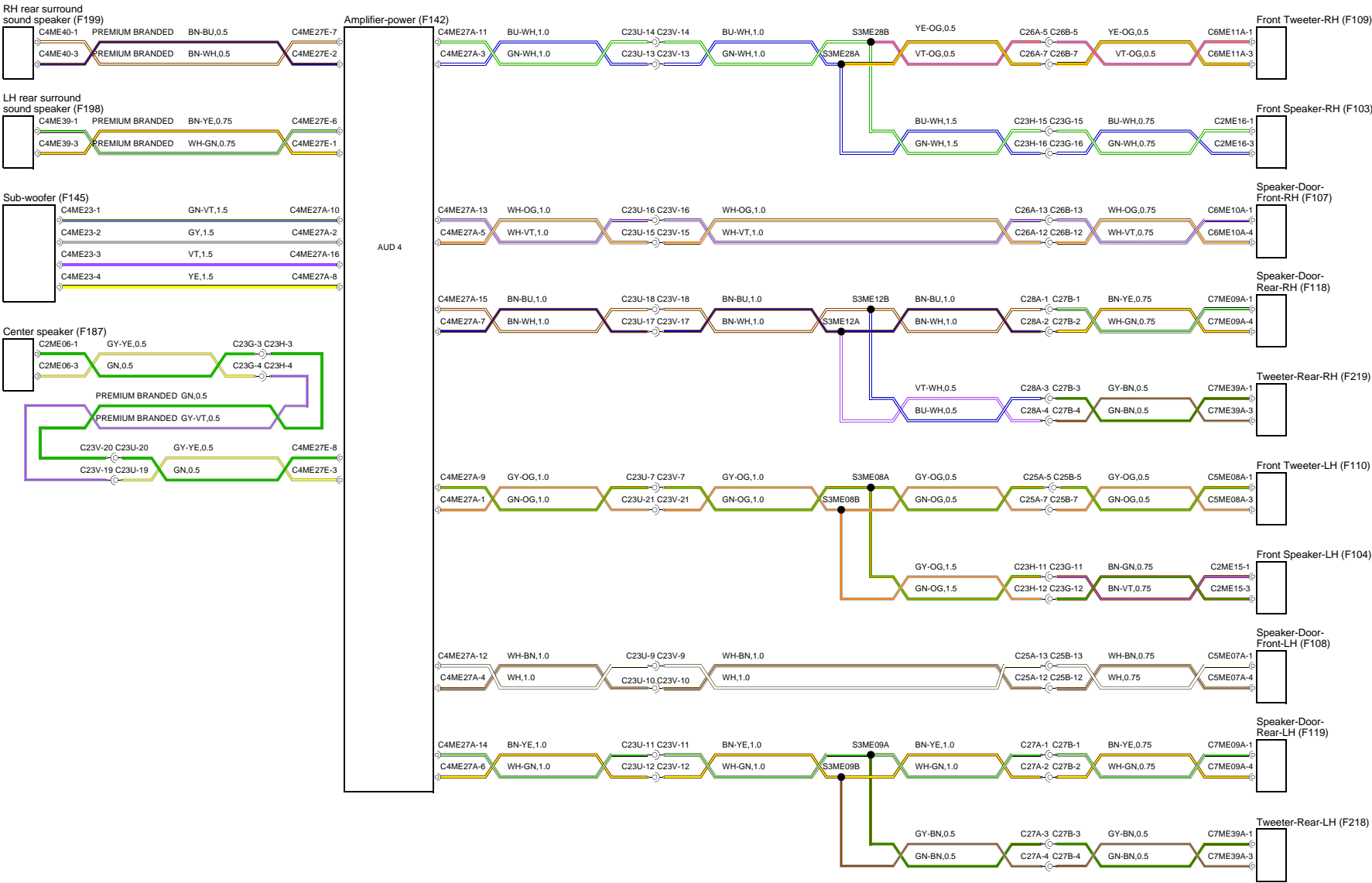


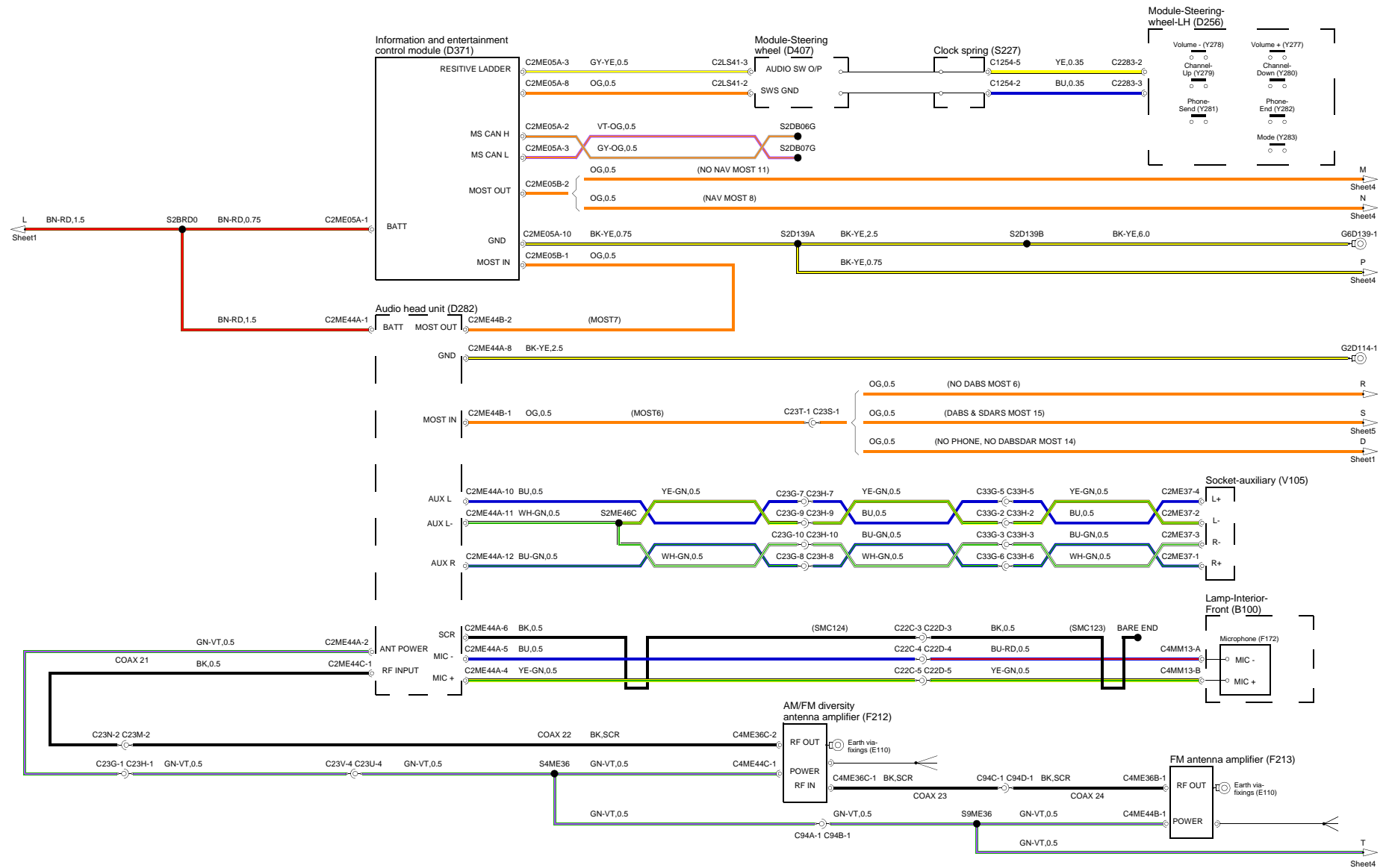


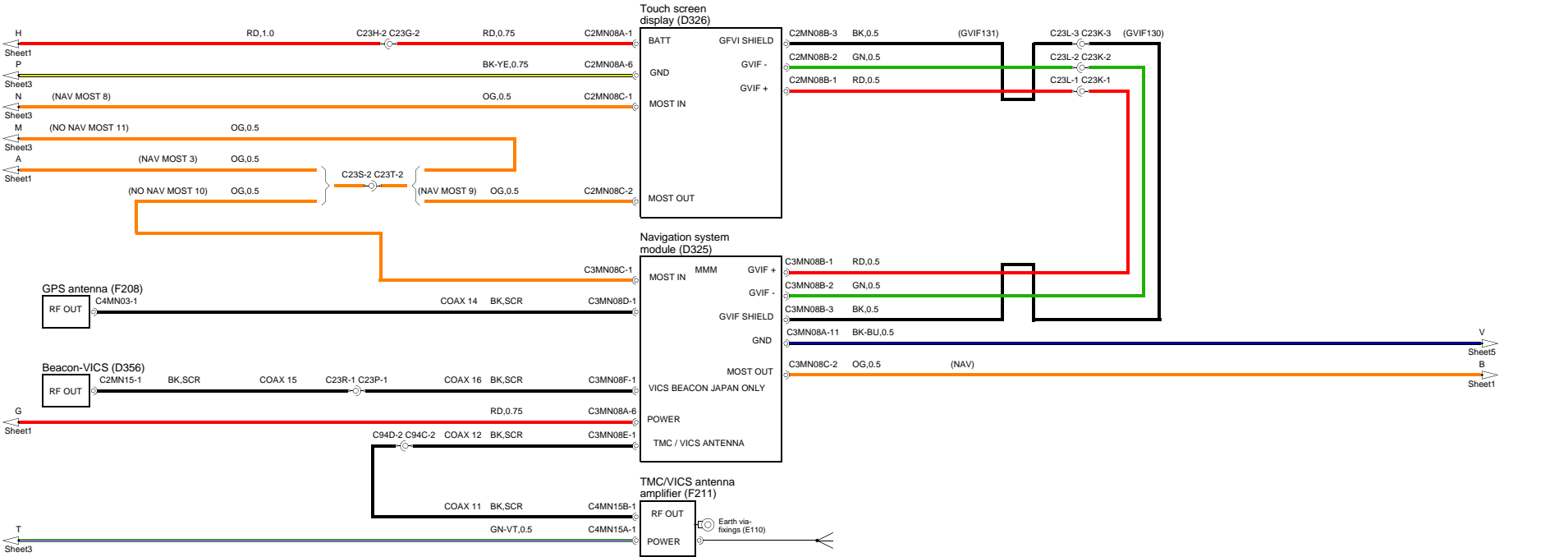


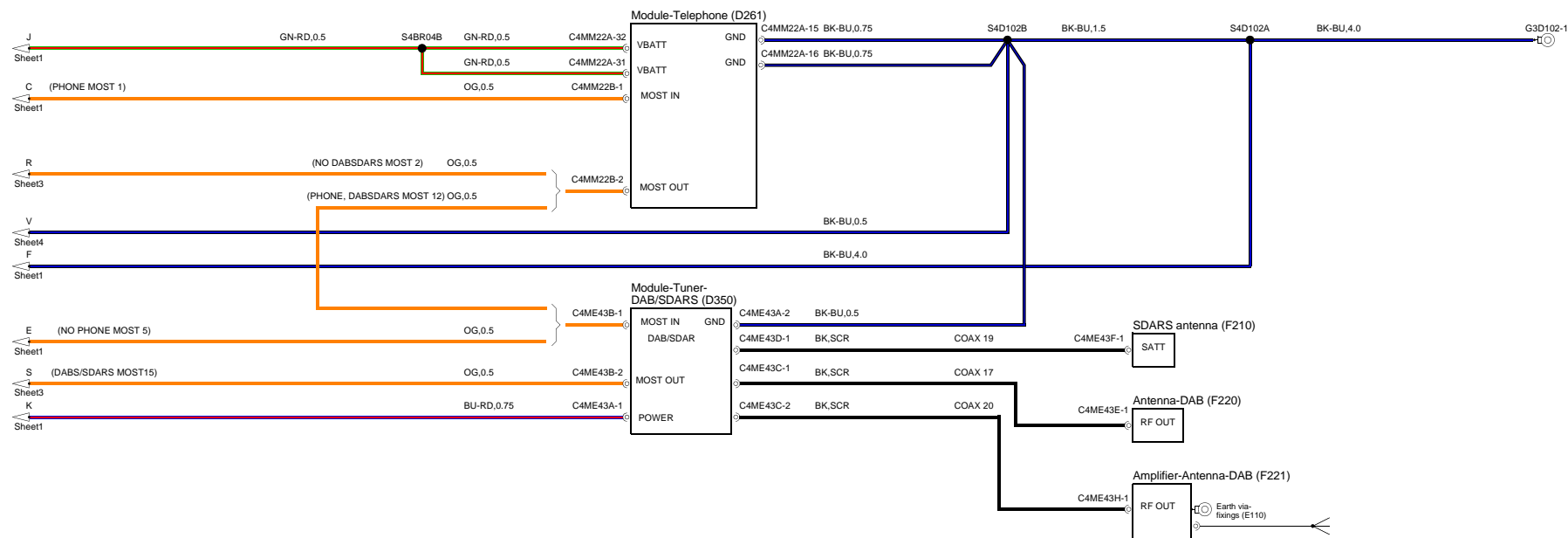




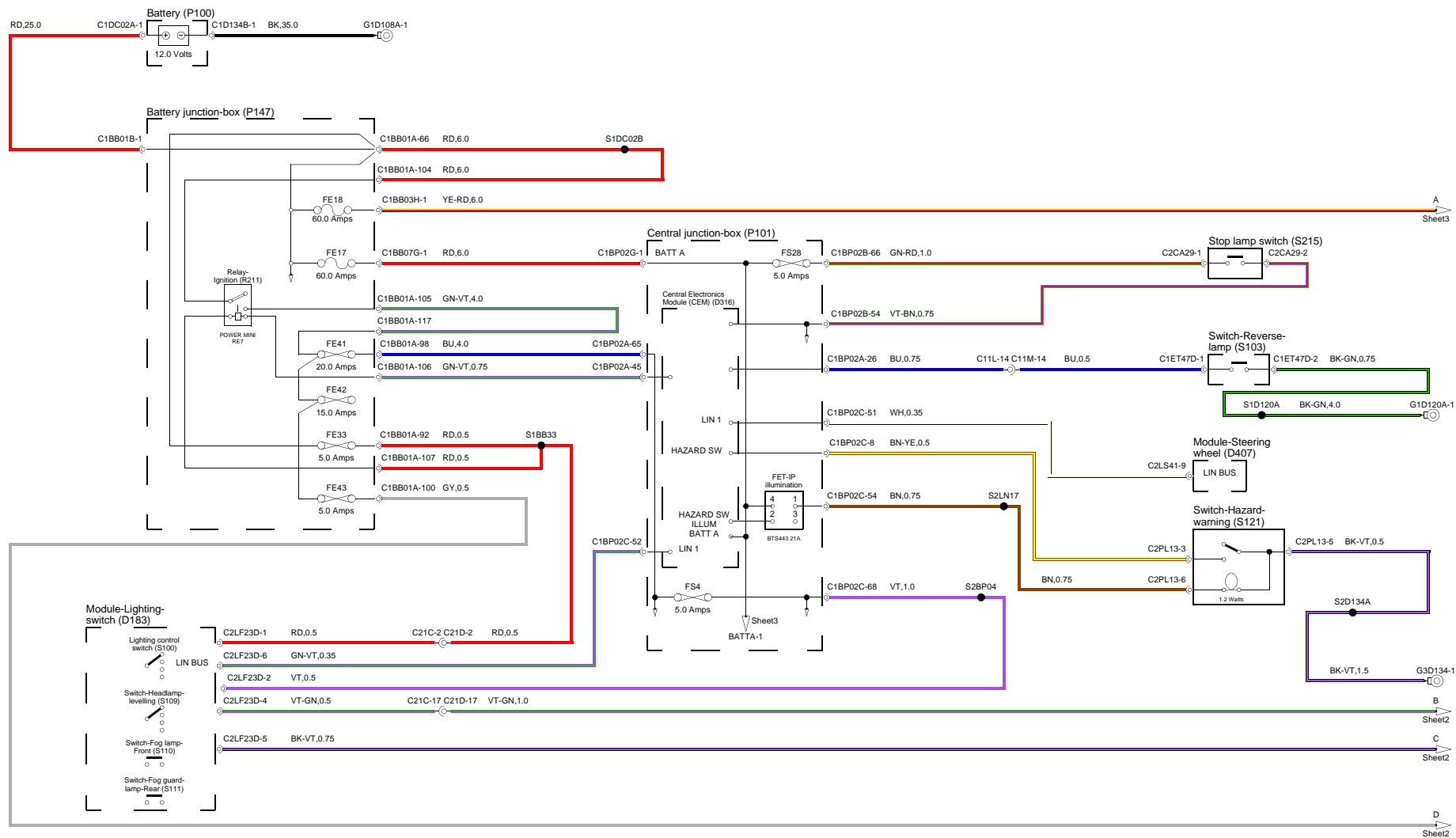






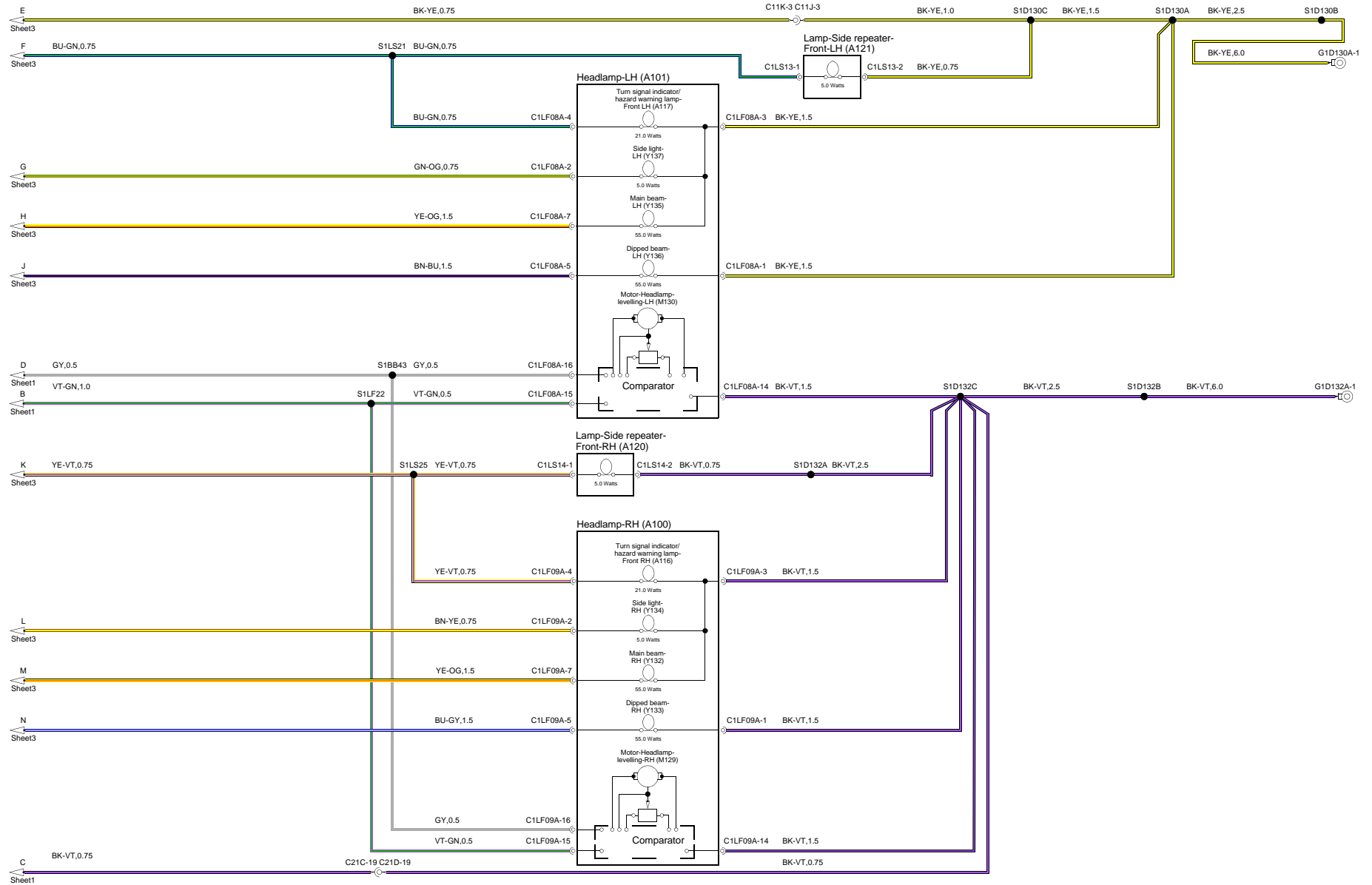


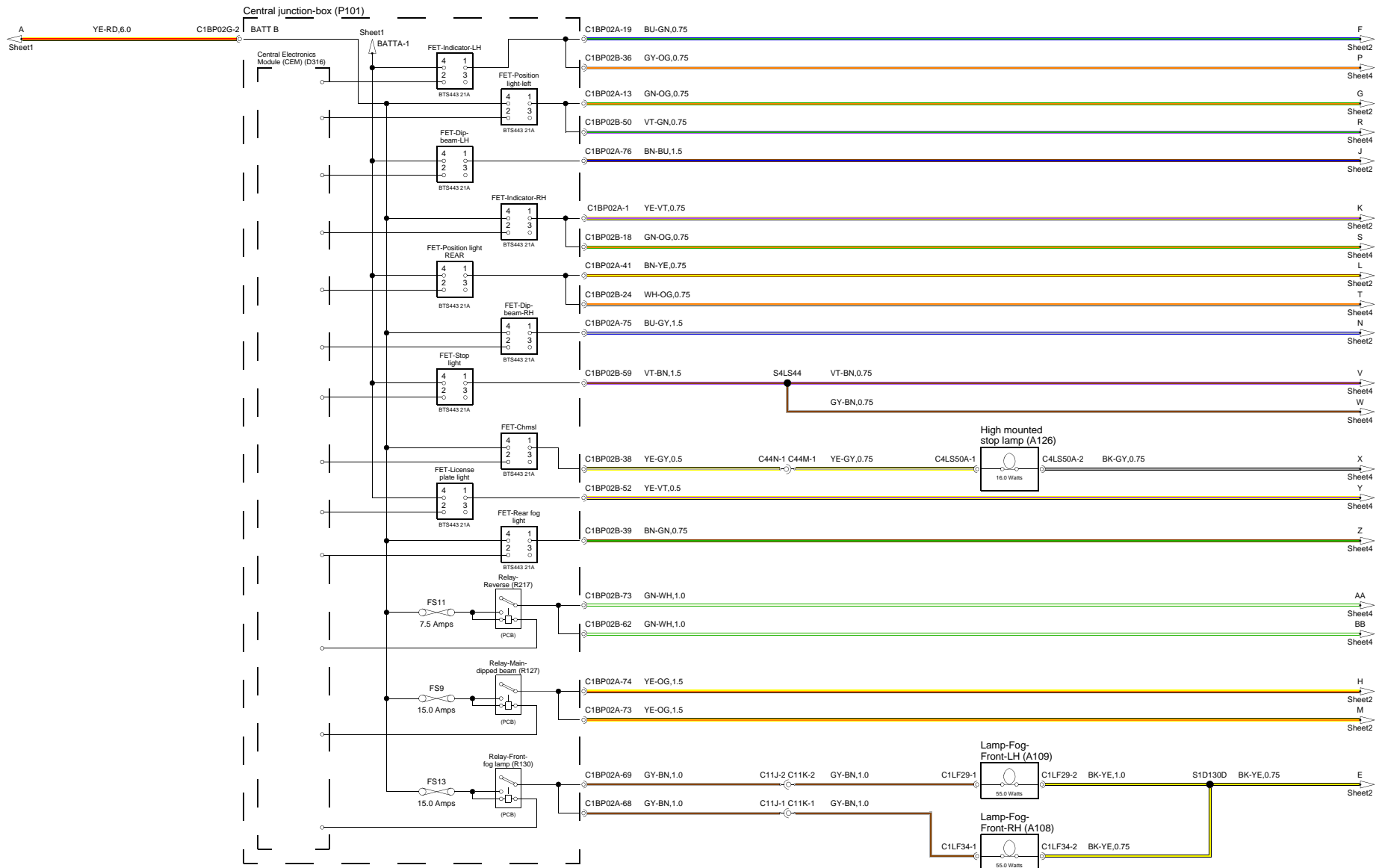
# 417-01 EXTERIOR LIGHTING



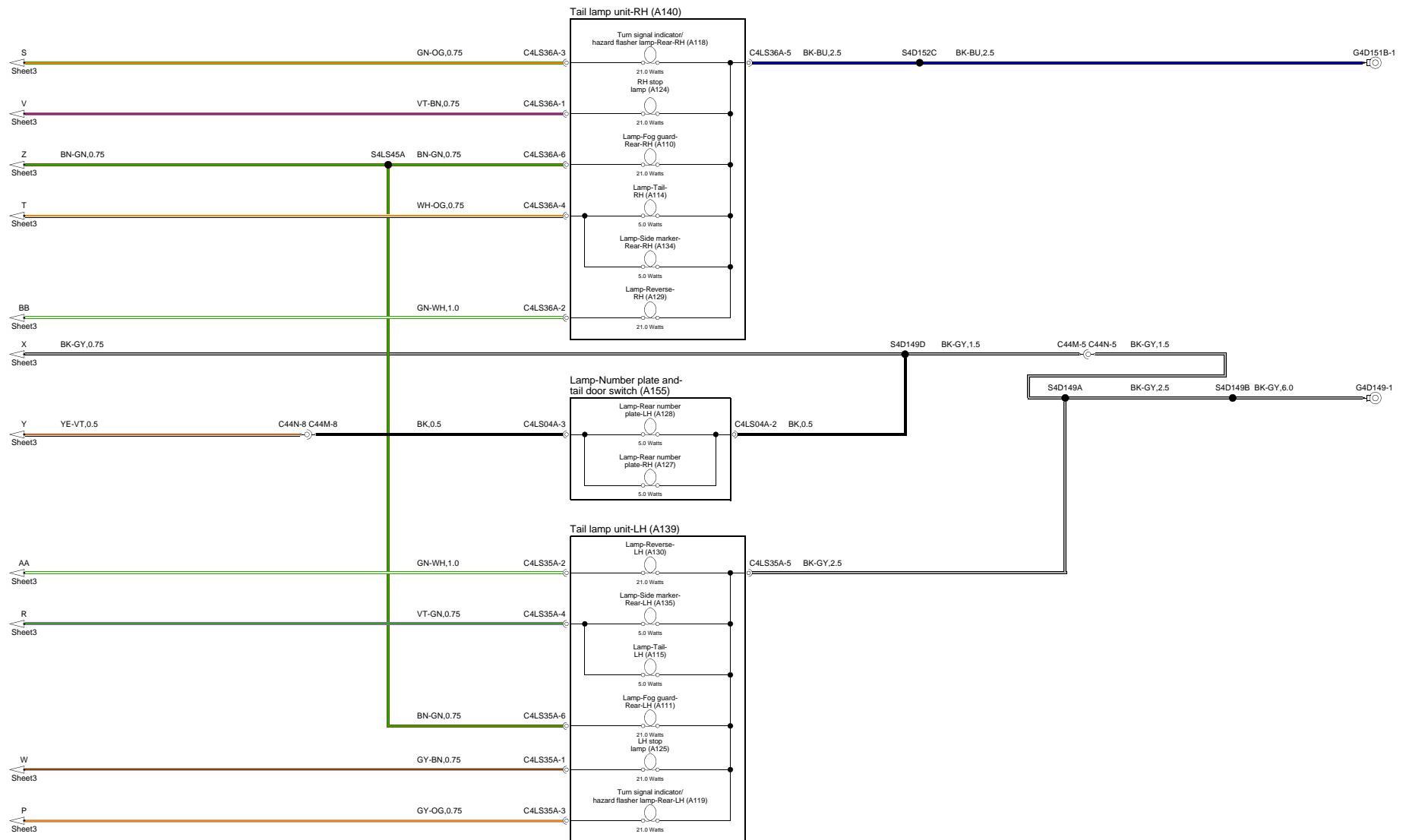


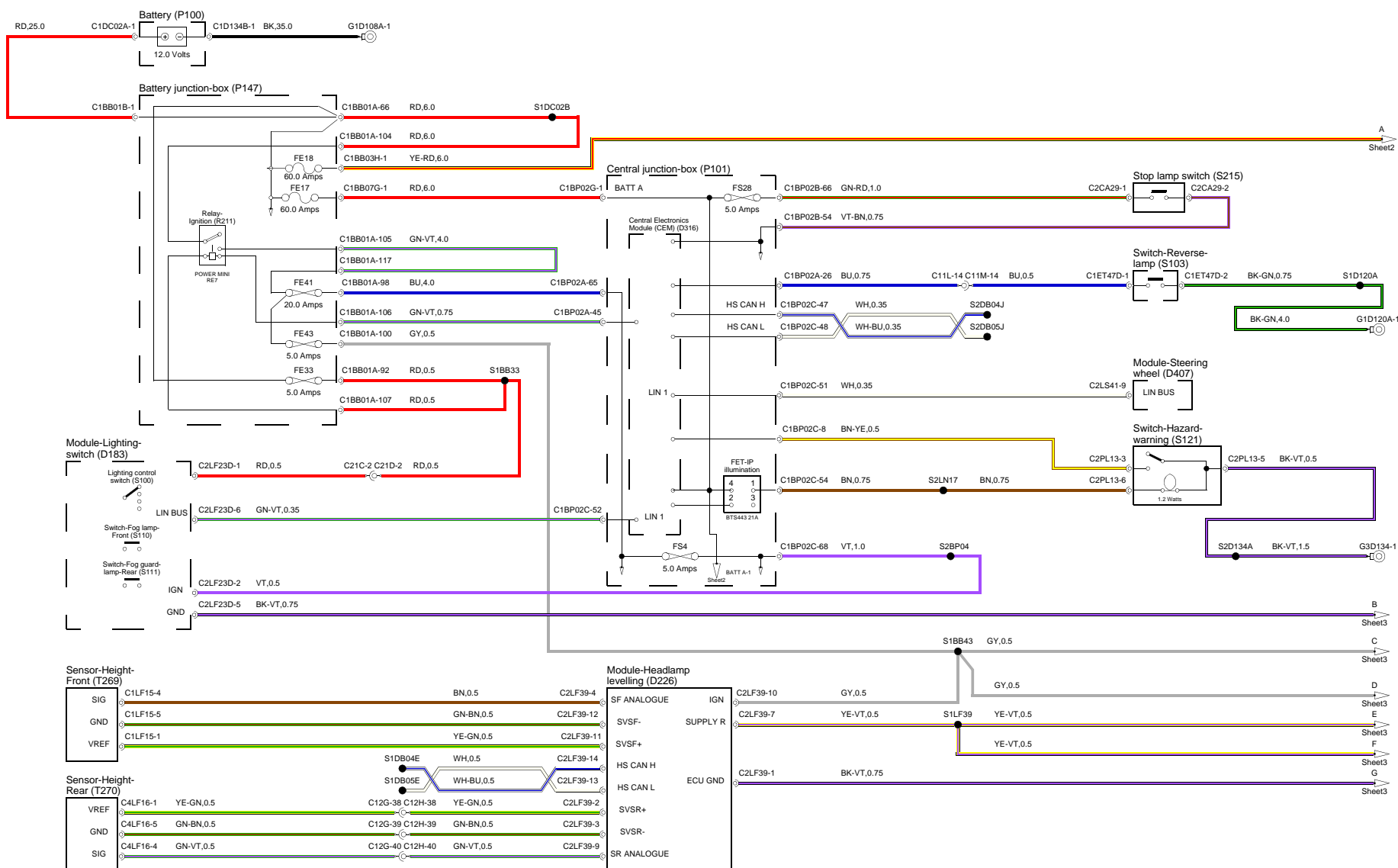
# 417-01 EXTERIOR LIGHTING

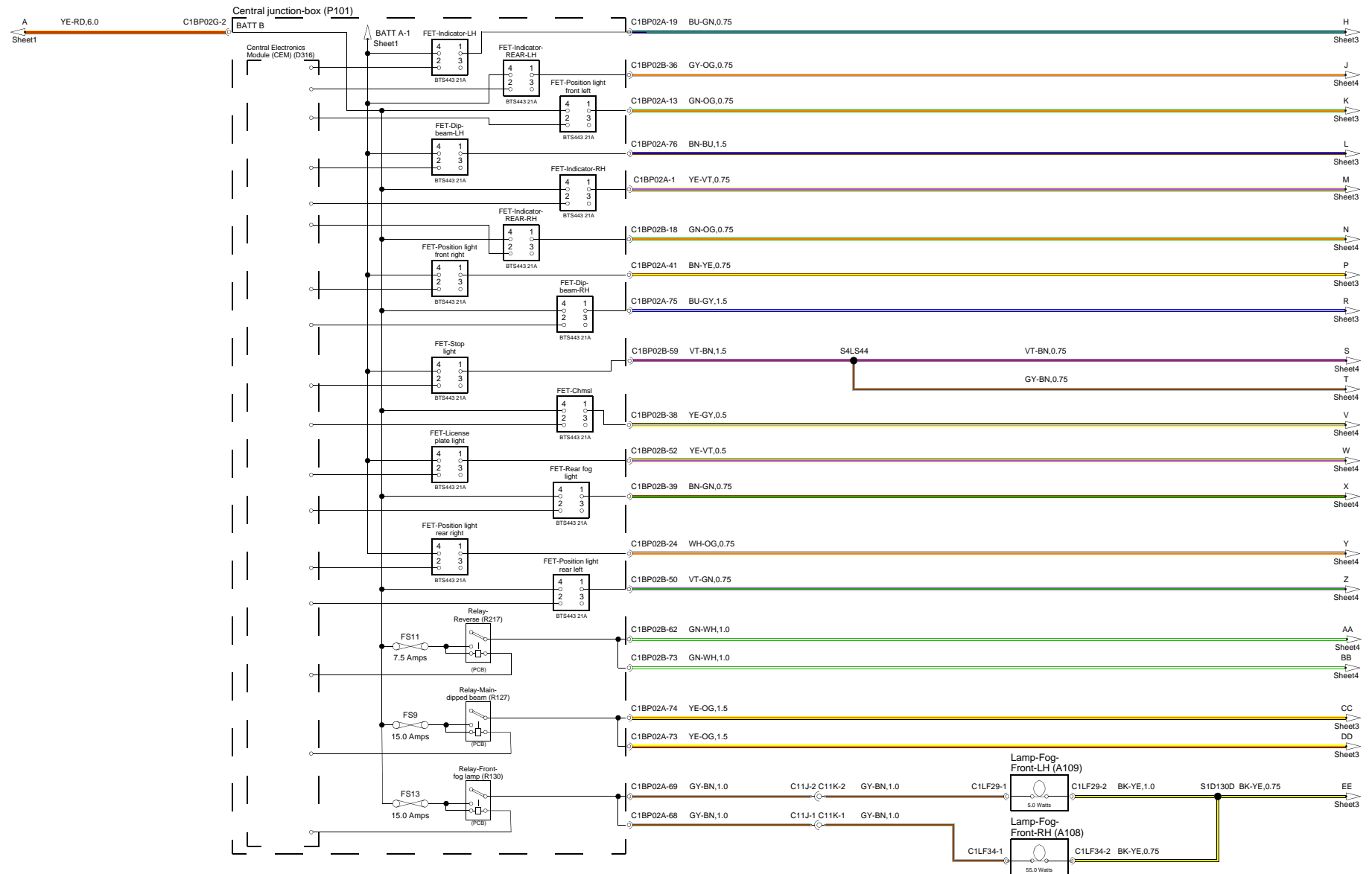


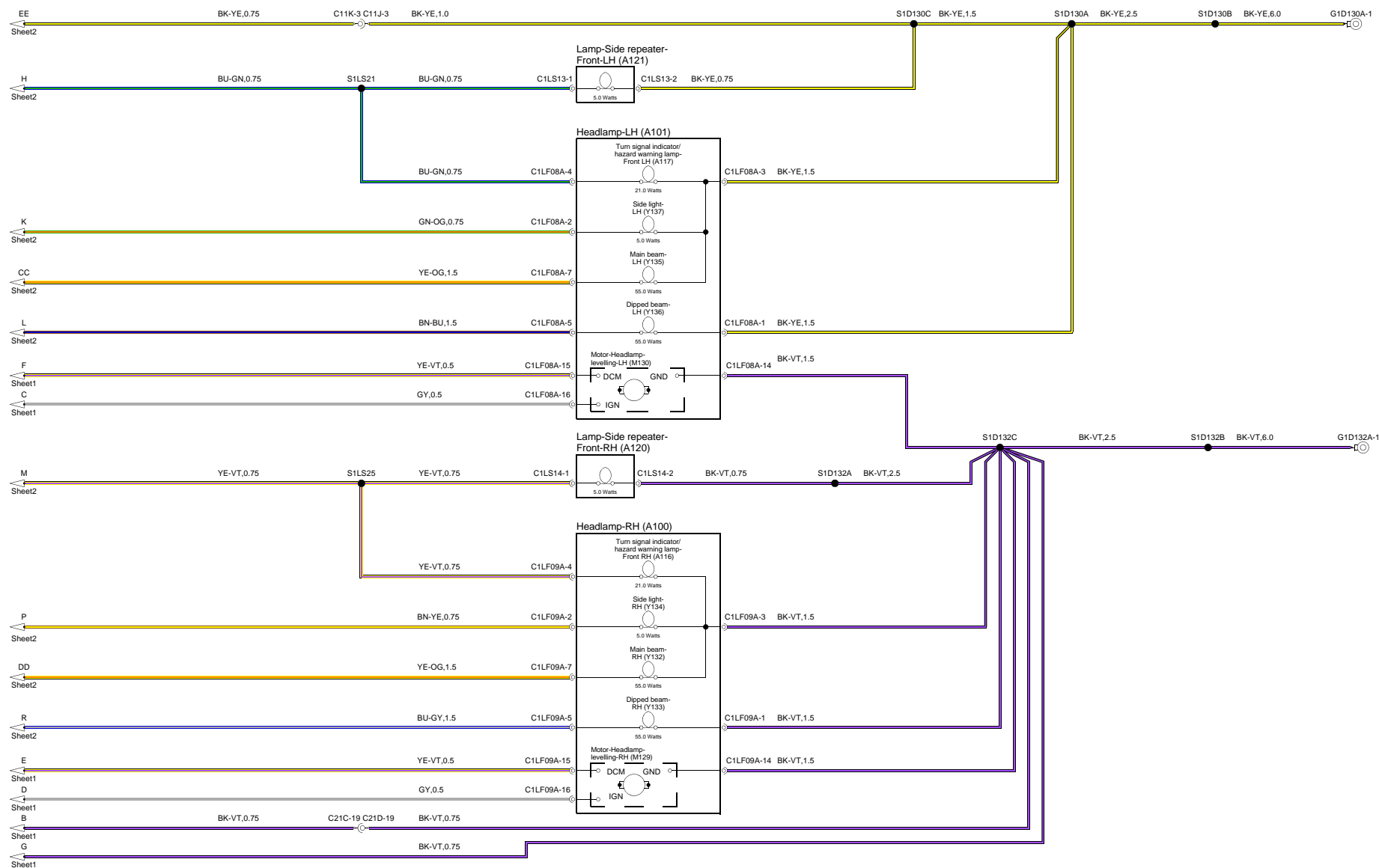


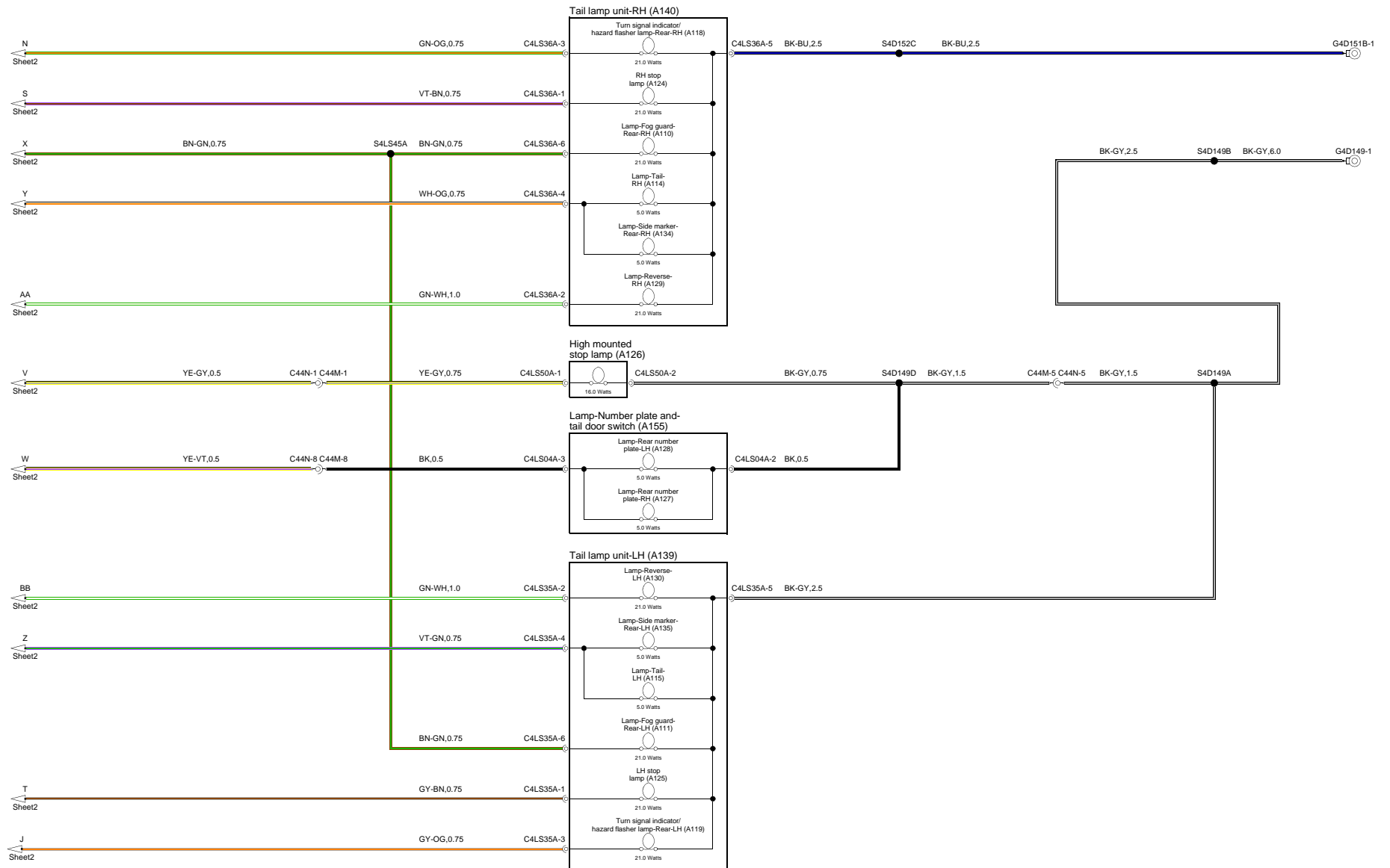
## 417-01 EXTERIOR LIGHTING

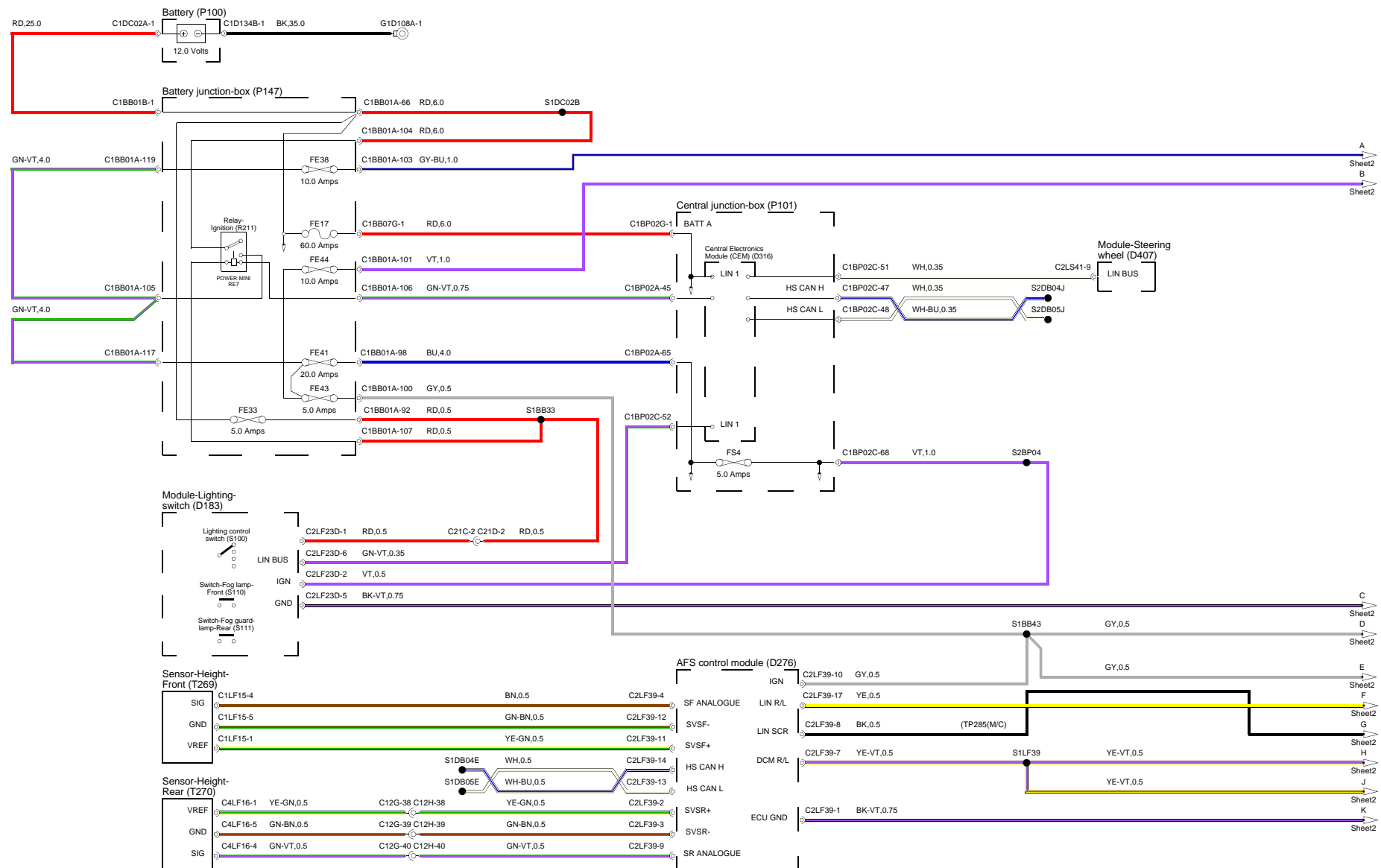




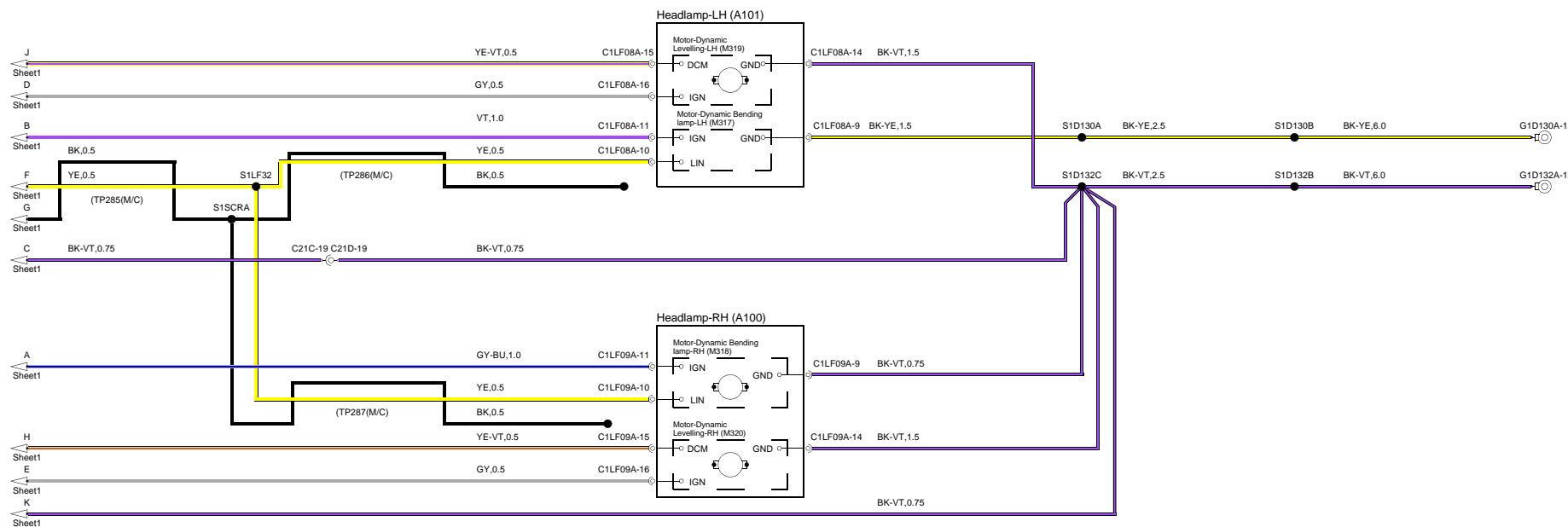


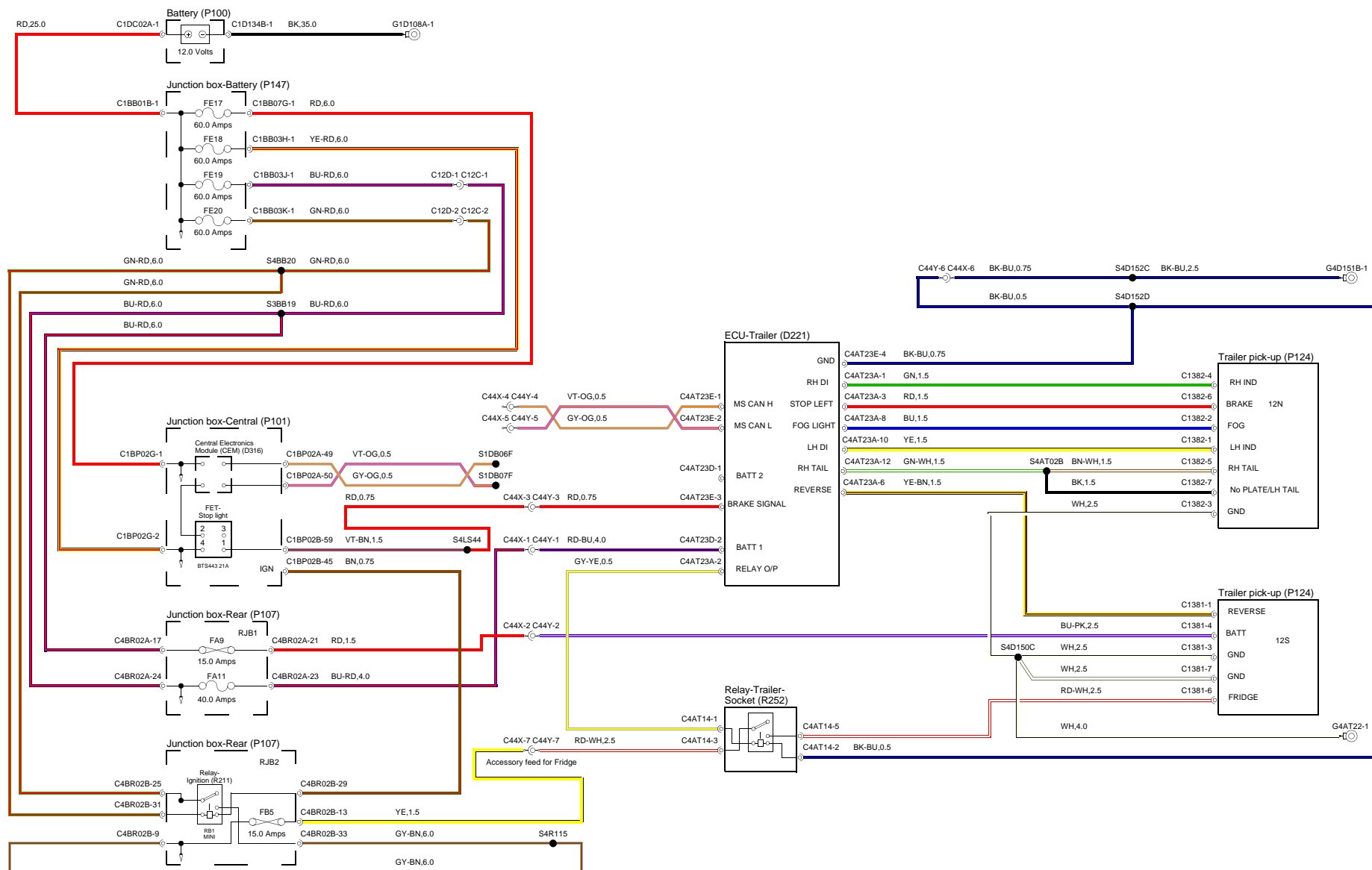




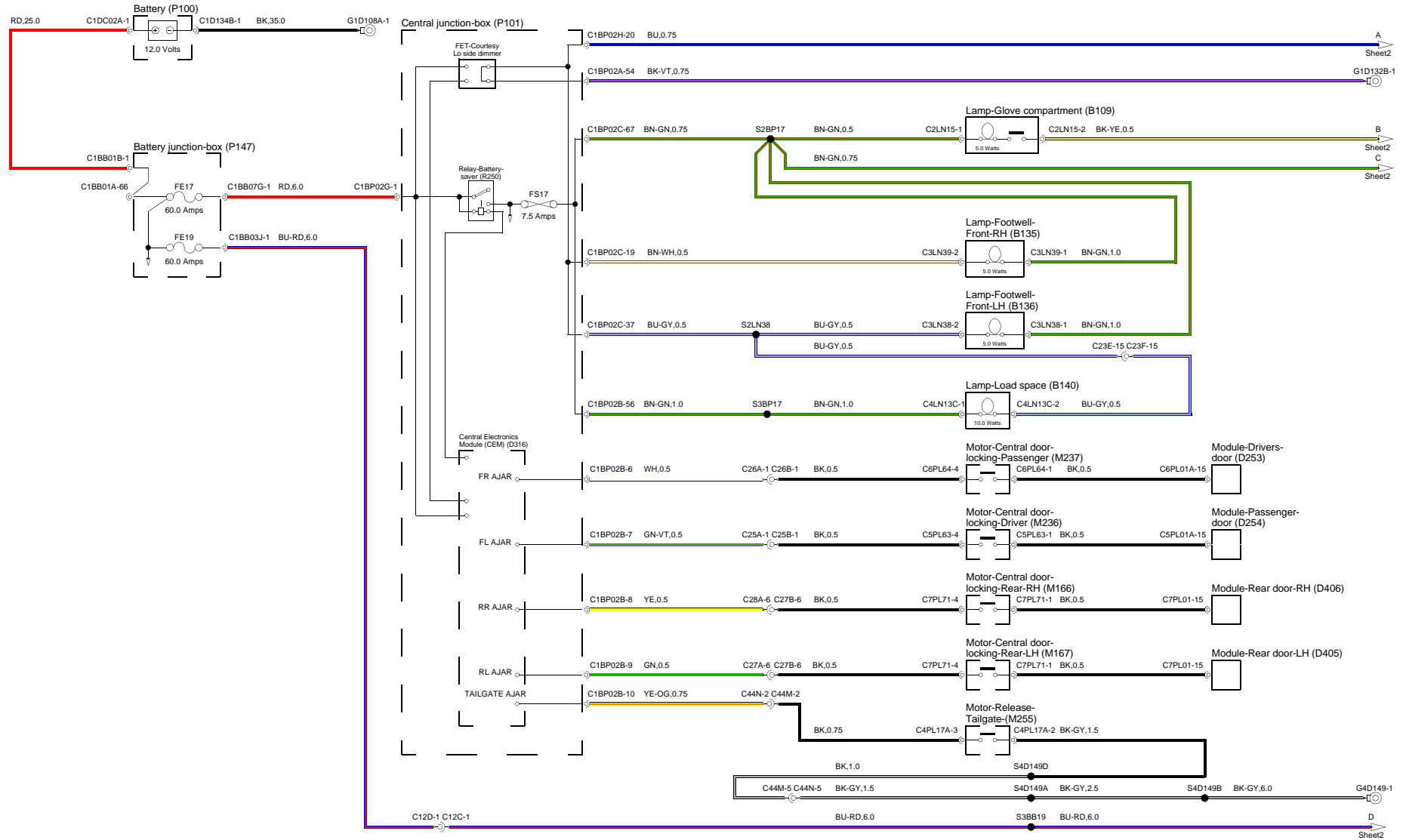




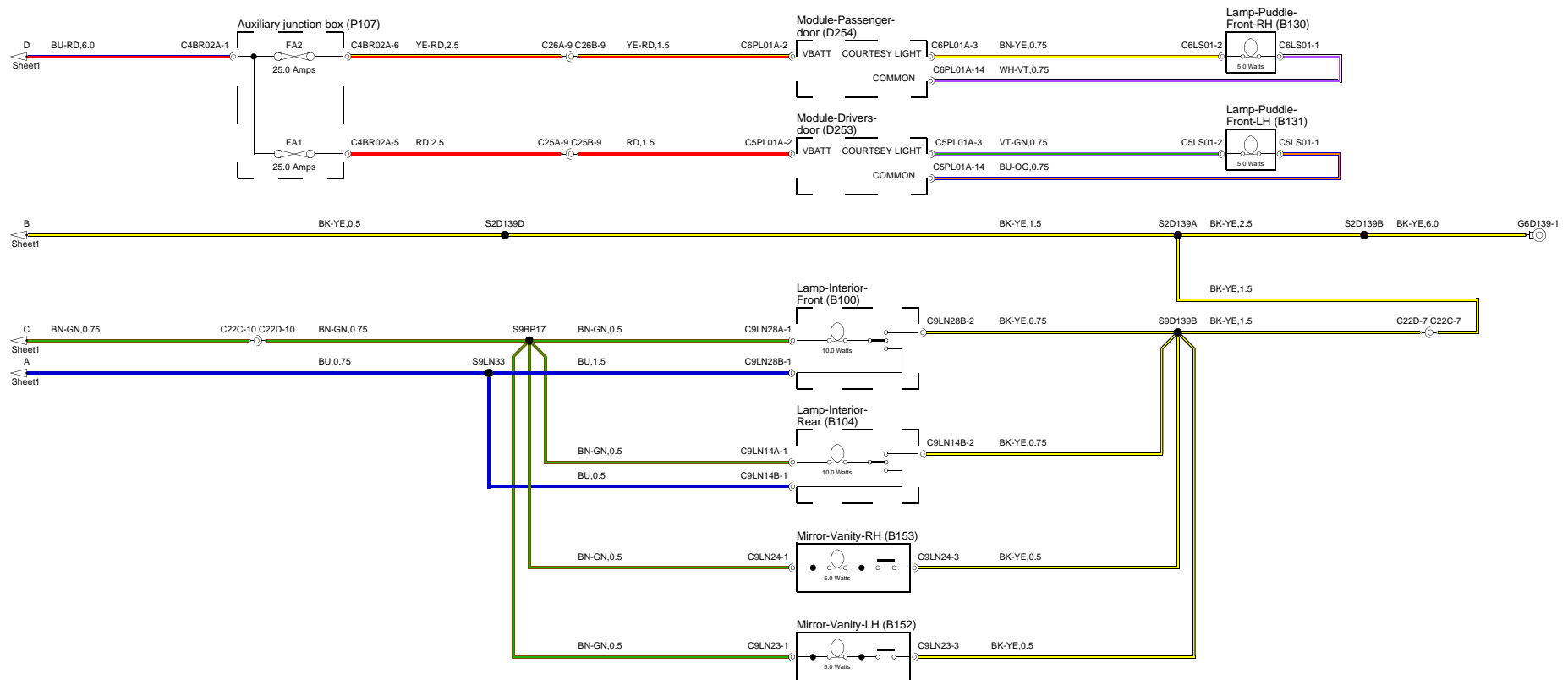


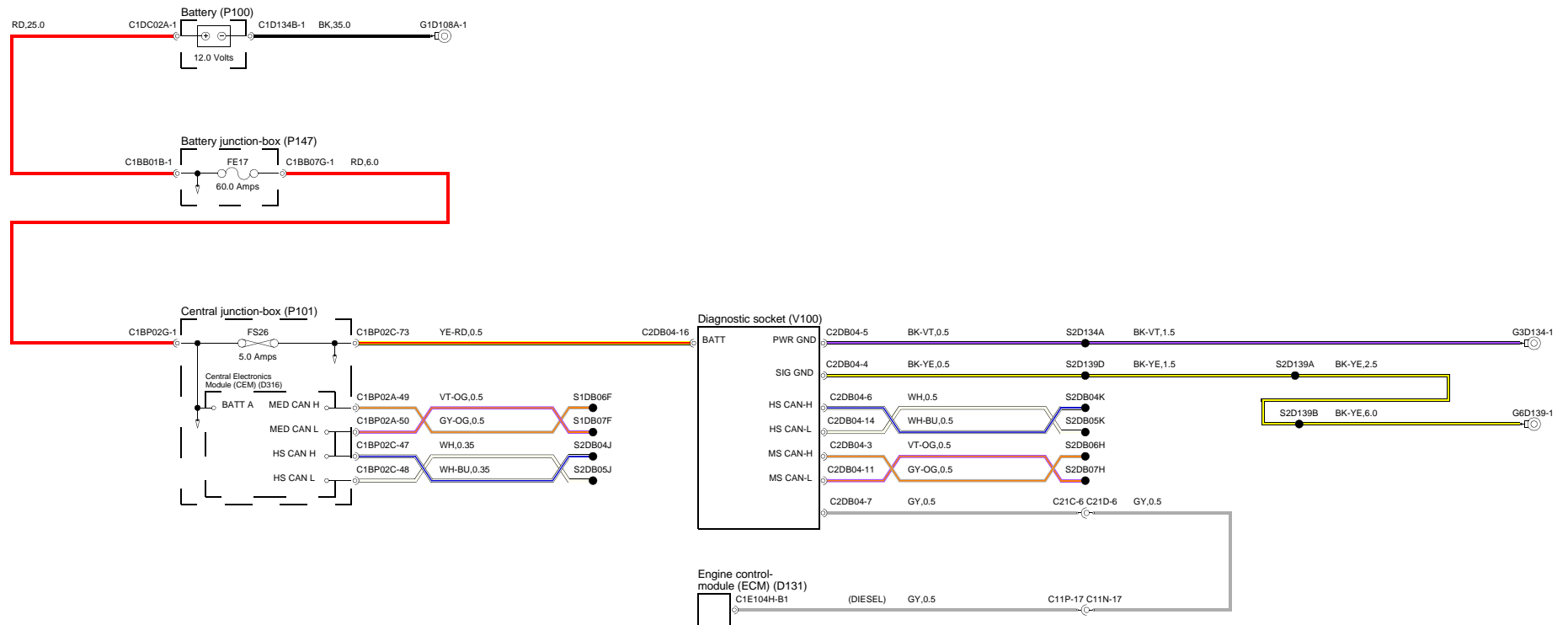


## 417-02 INTERIOR LIGHTING

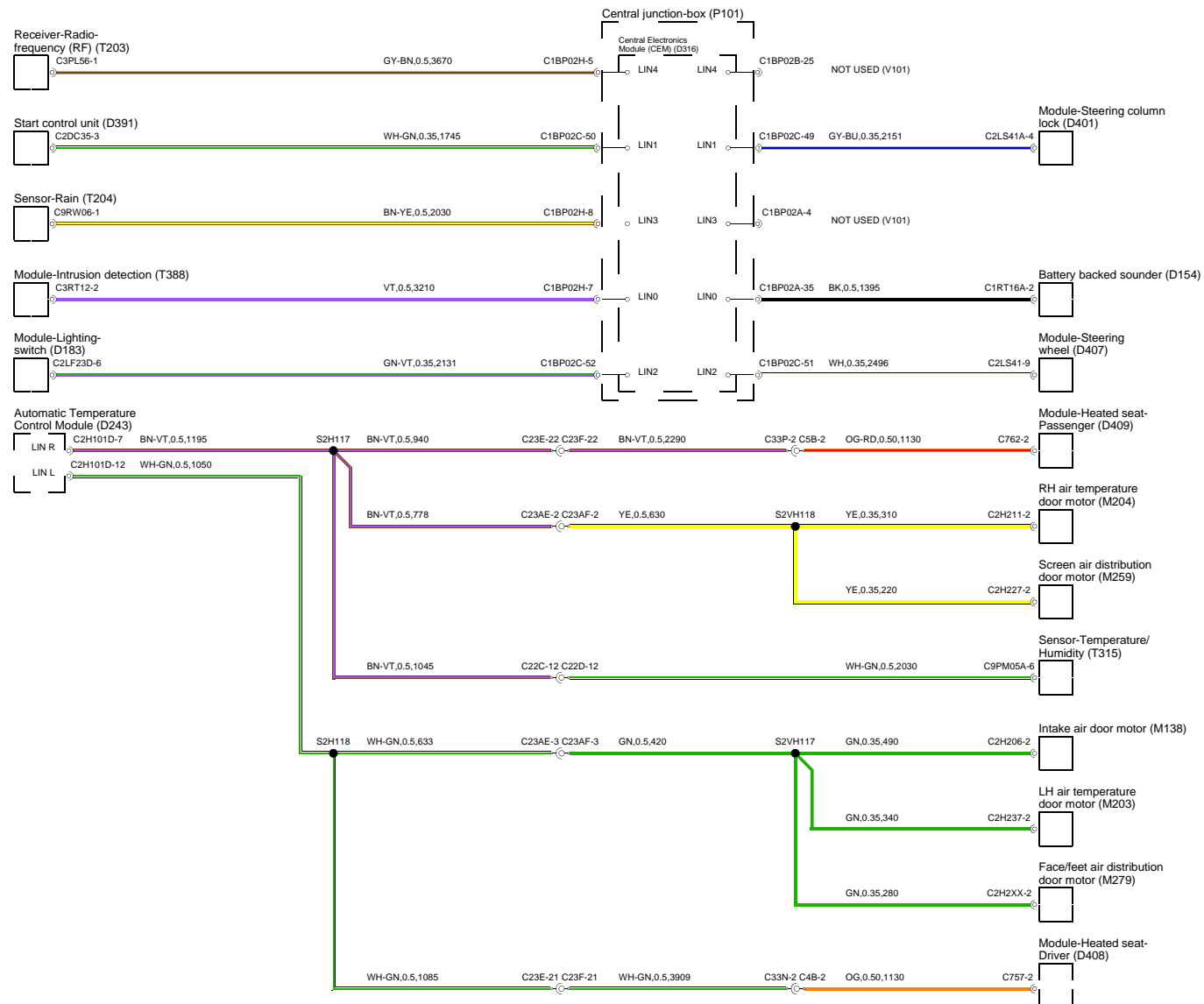


## 417-02 INTERIOR LIGHTING

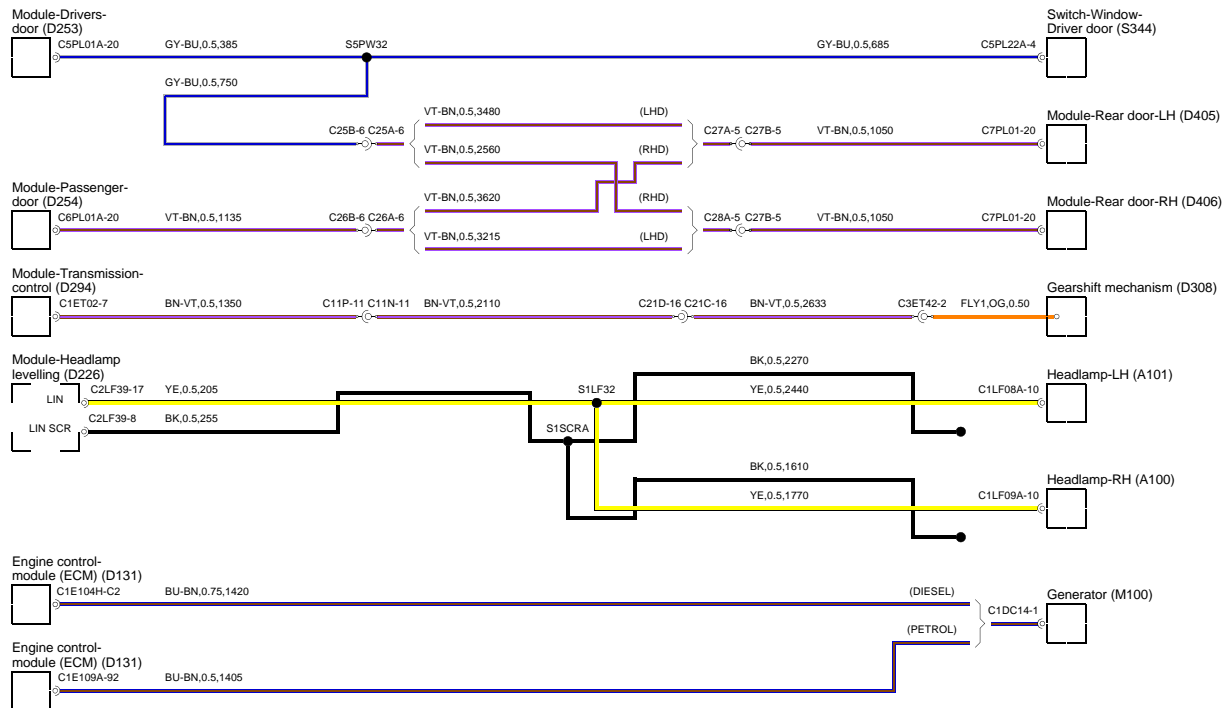


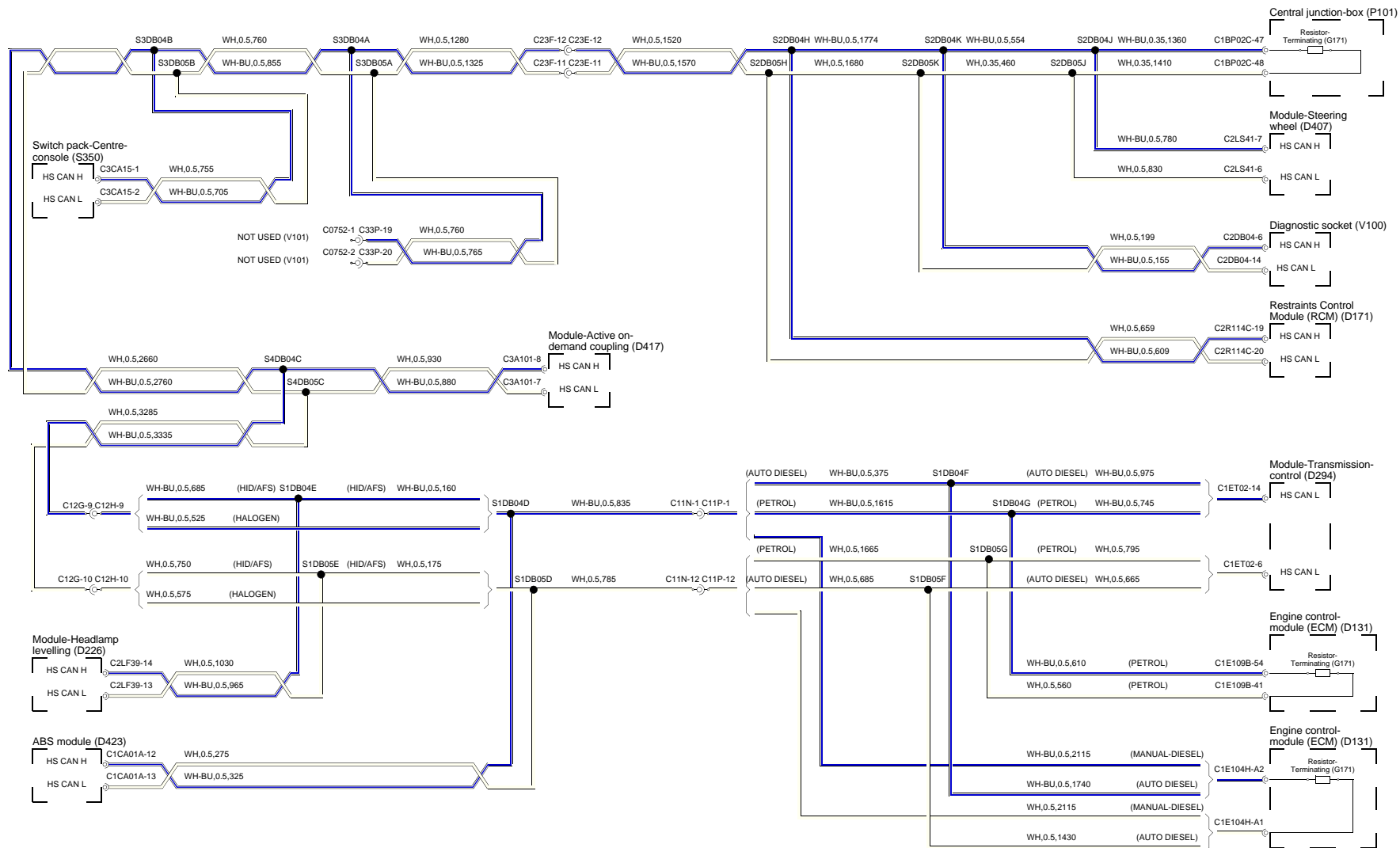


# 418-00 MODULE COMMUNICATIONS NETWORK

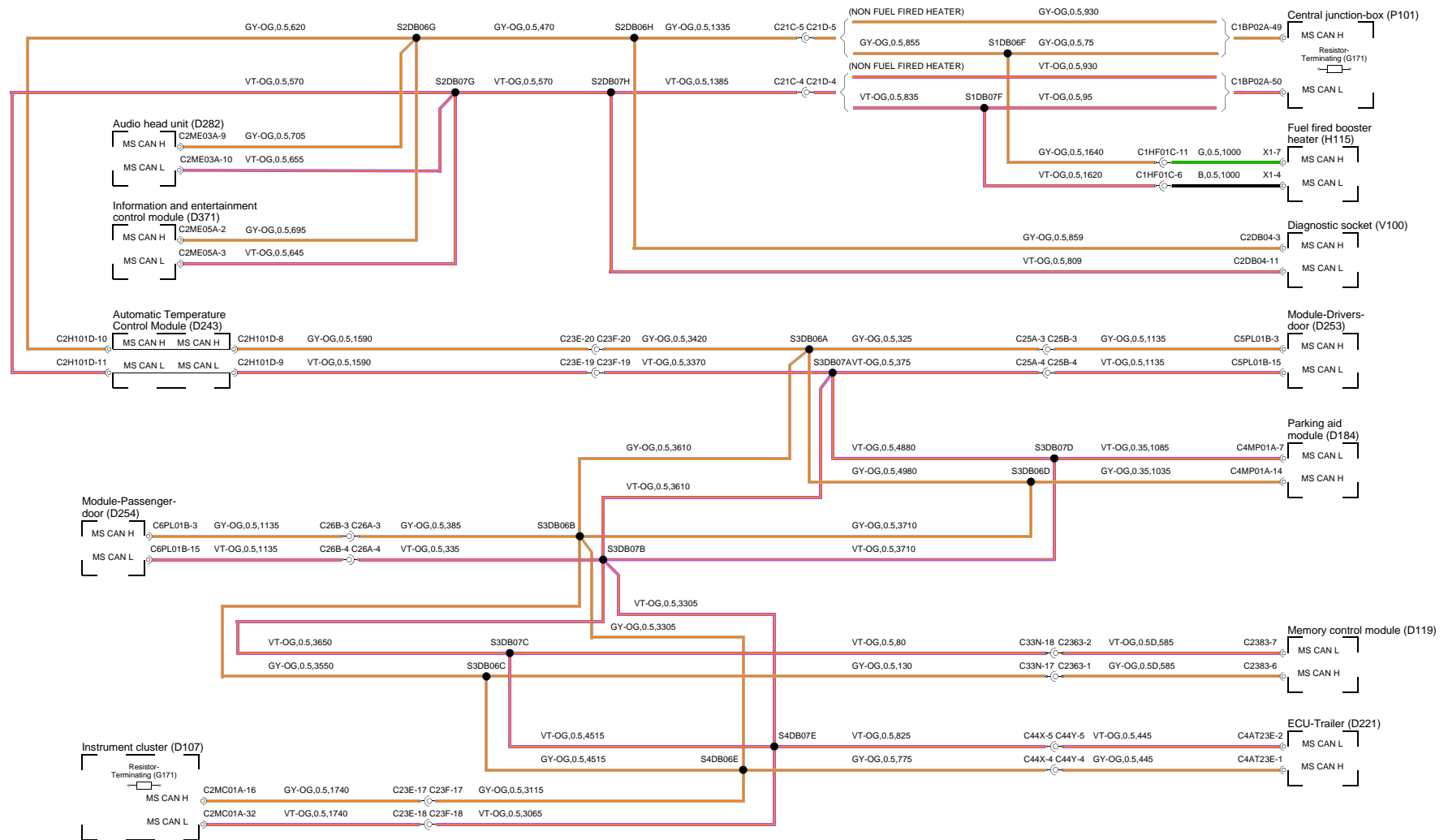


## 418-00 MODULE COMMUNICATIONS NETWORK

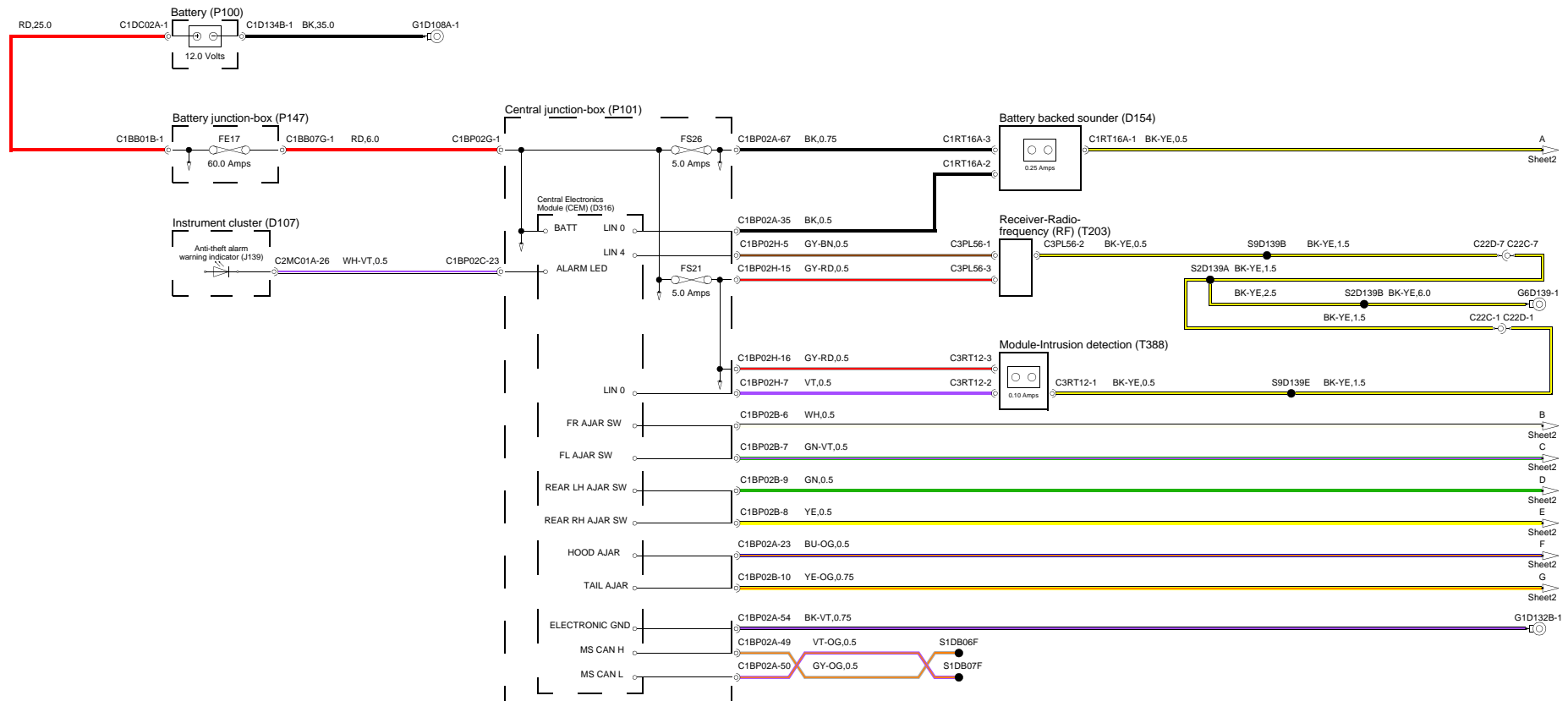




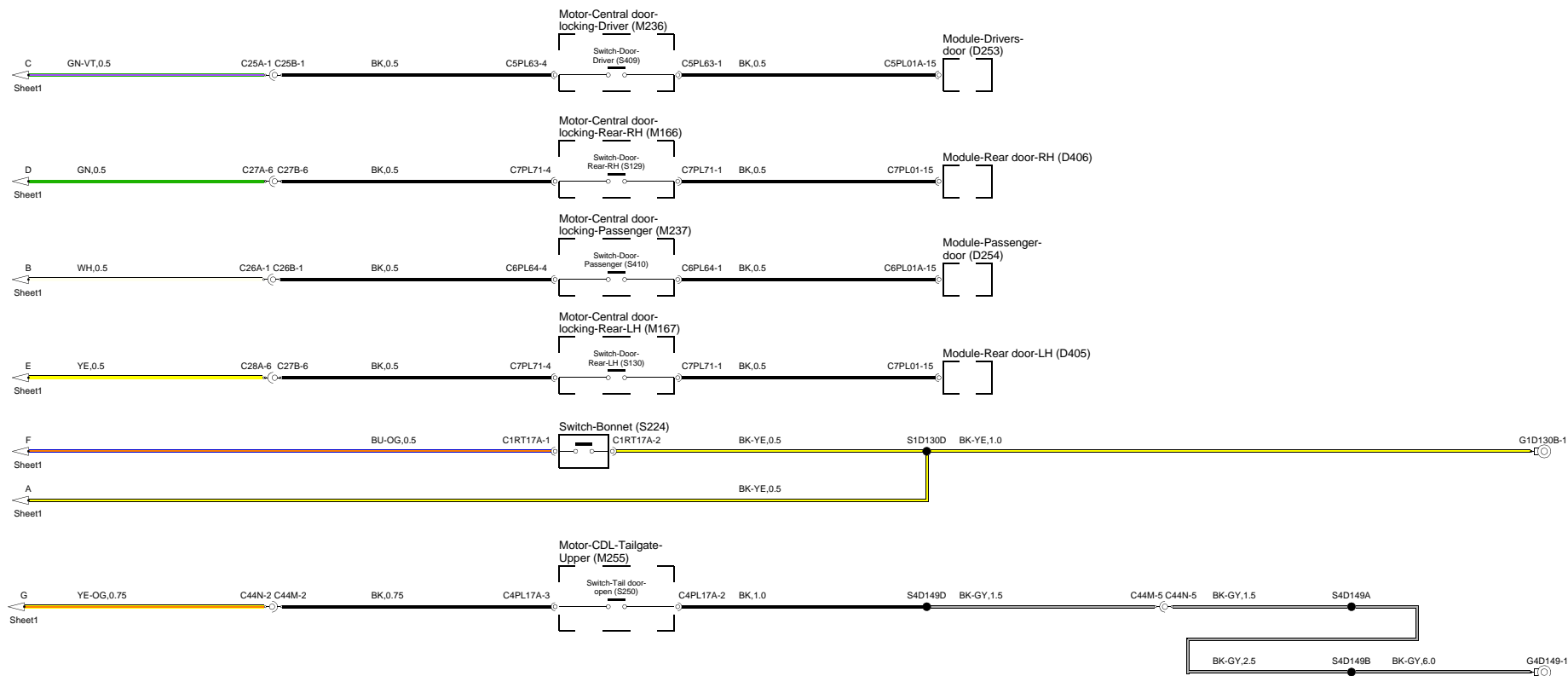


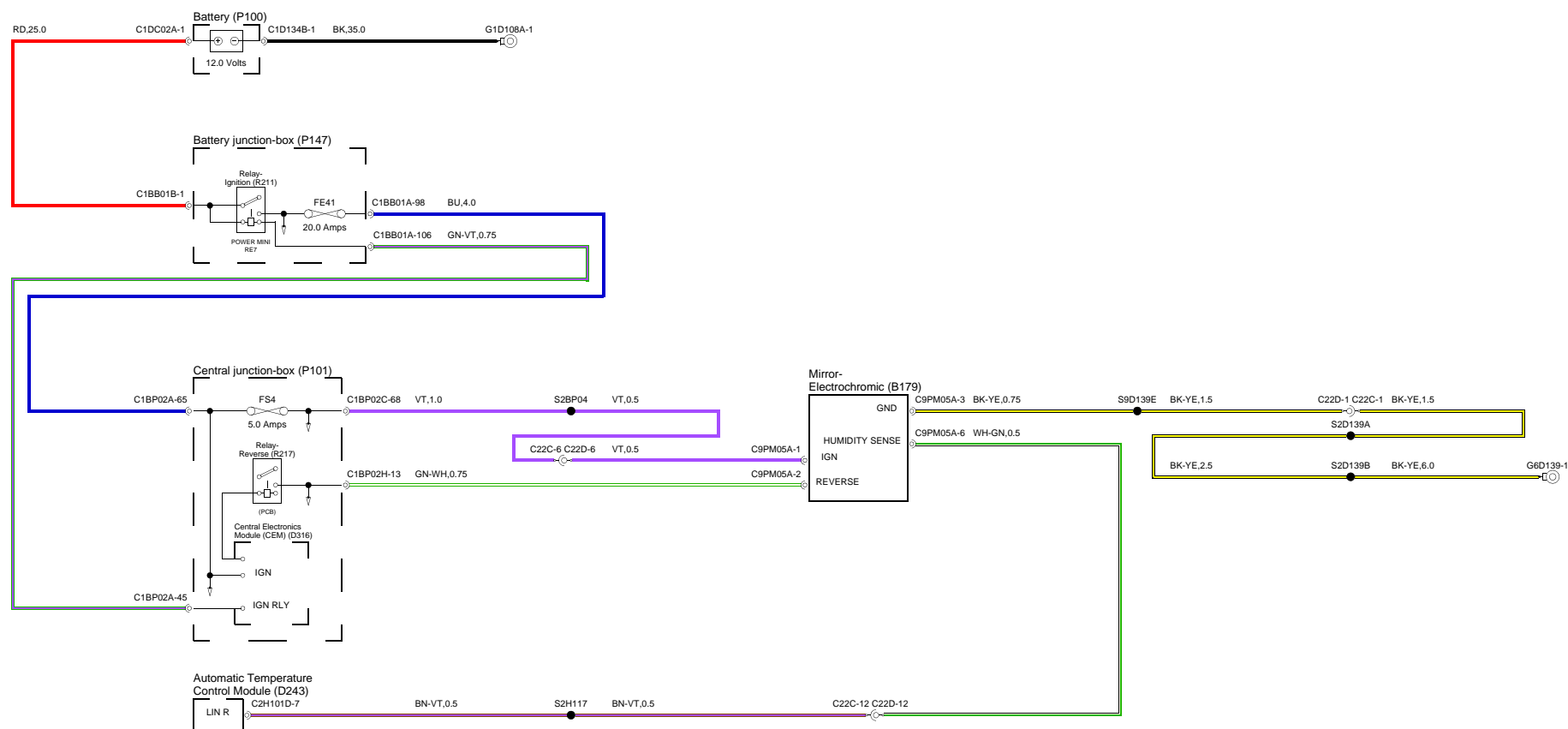


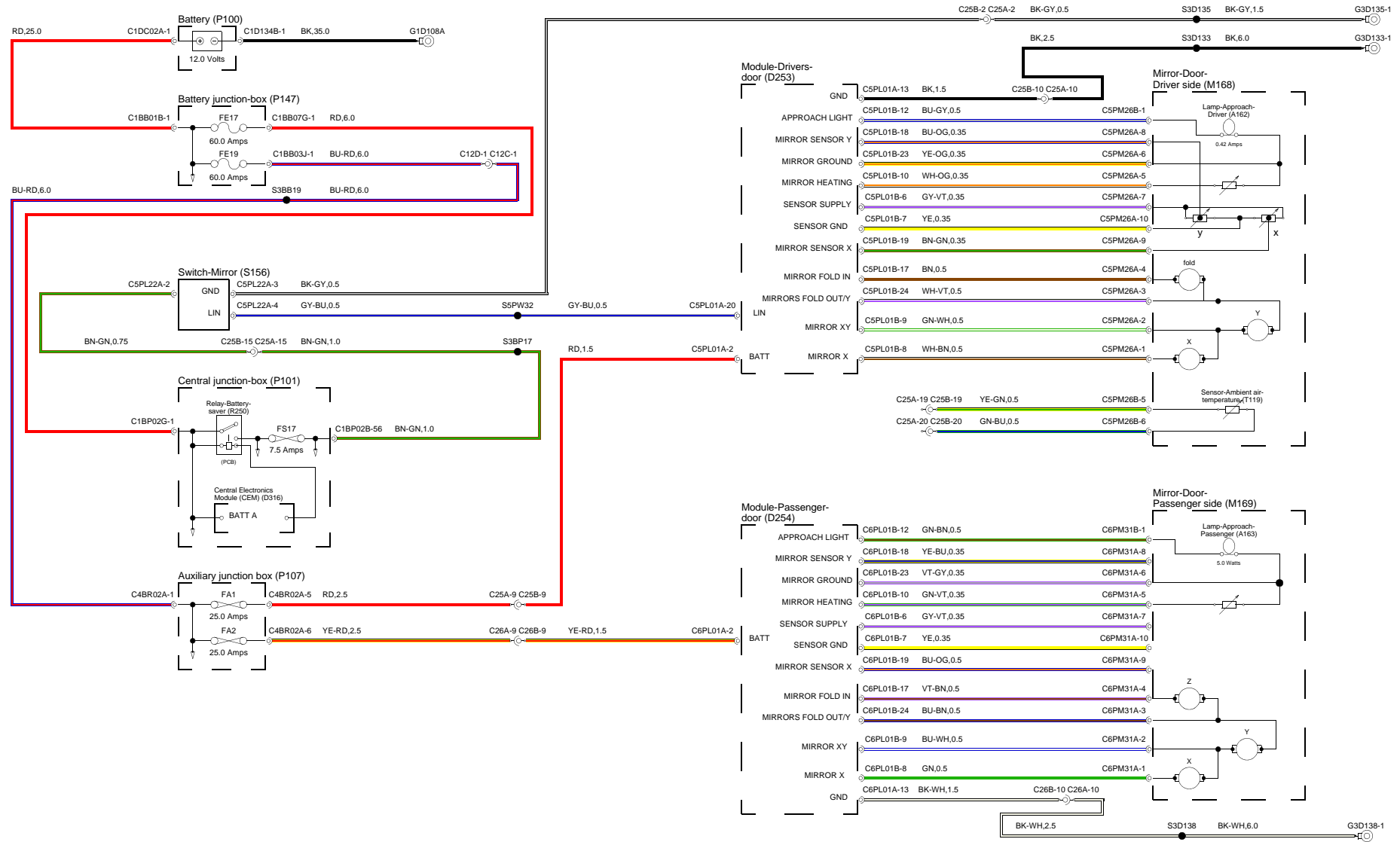
# 419-01 ANTI-THEFT SYSTEM

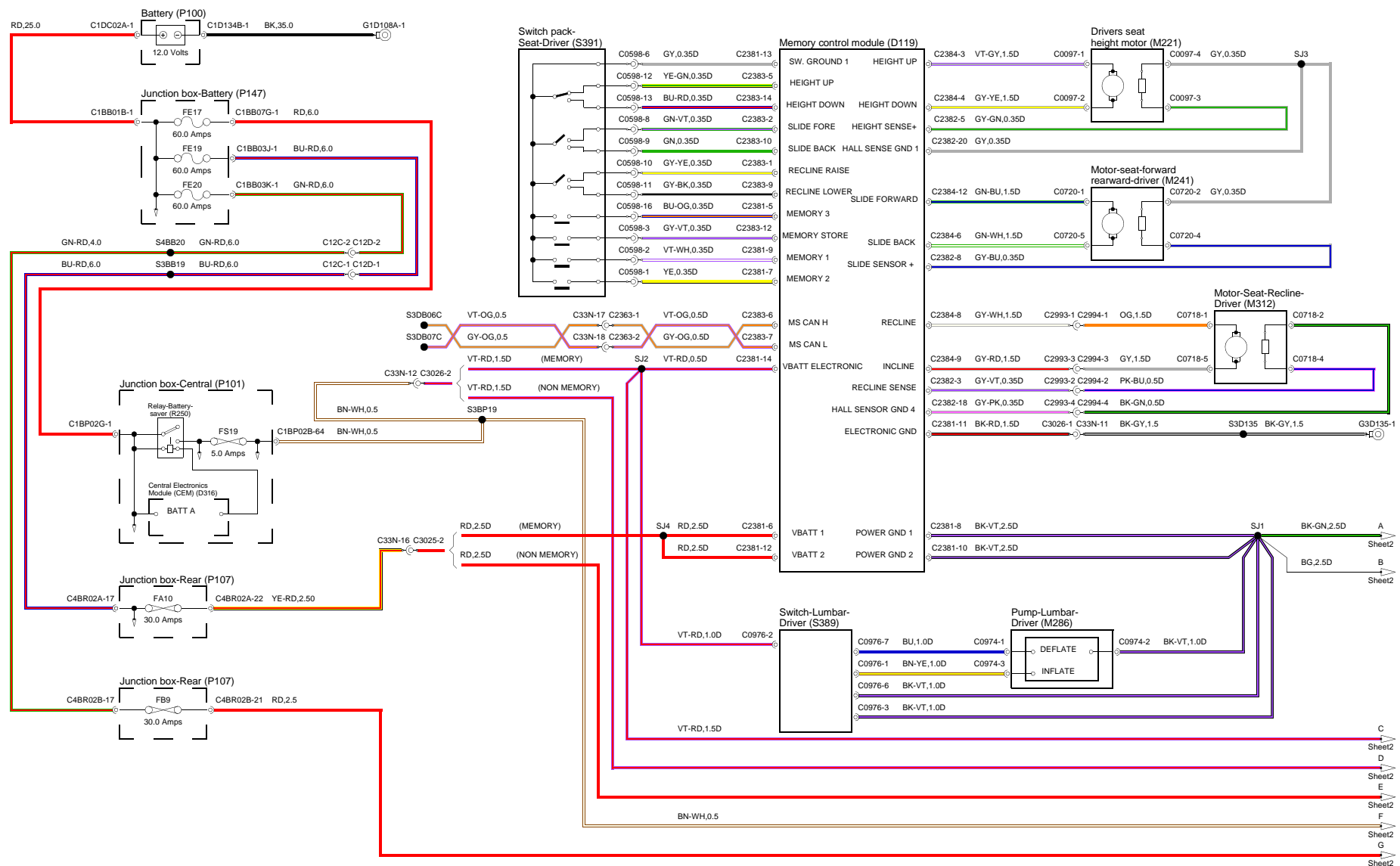


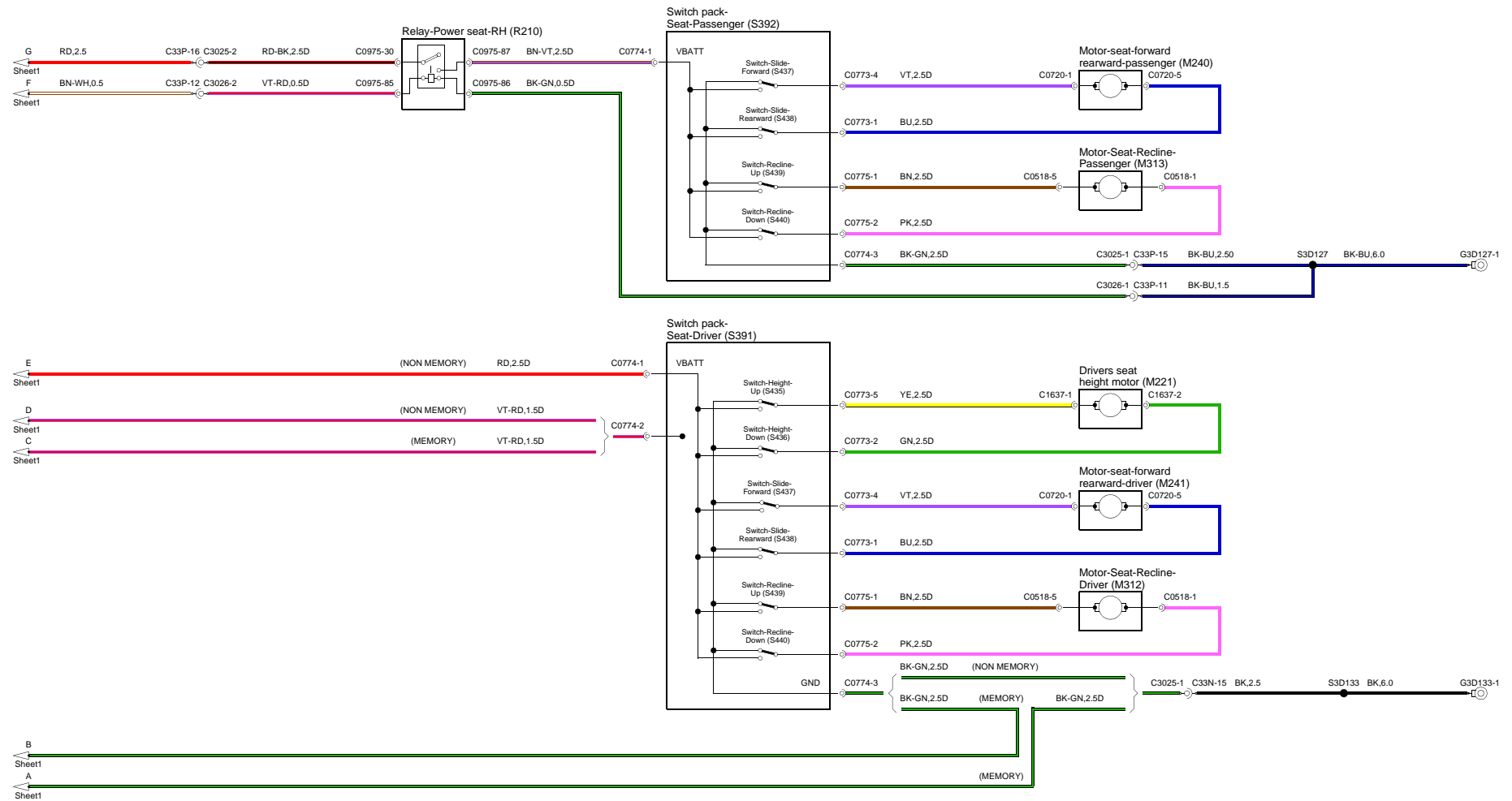
## 419-01 ANTI-THEFT SYSTEM

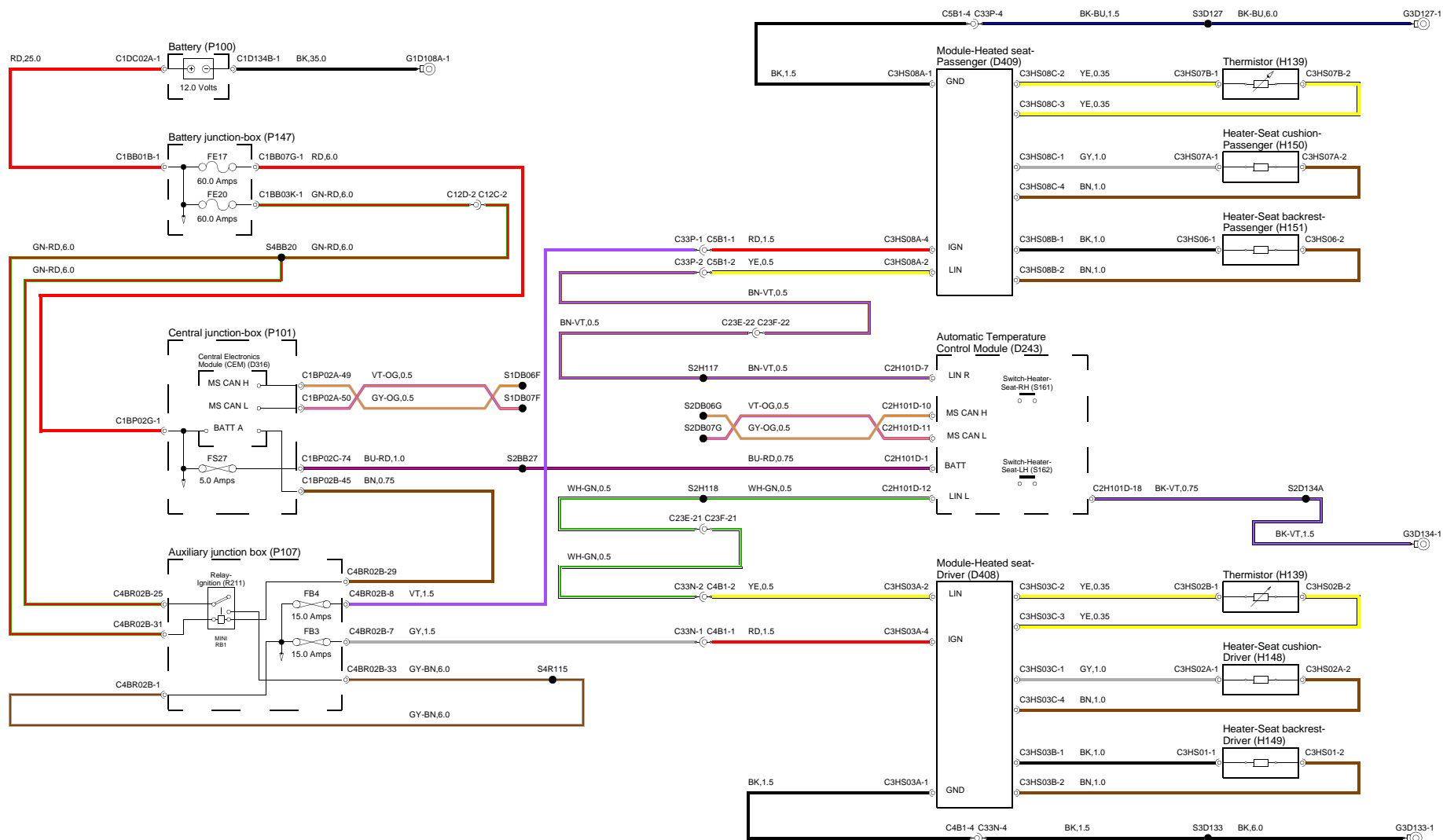




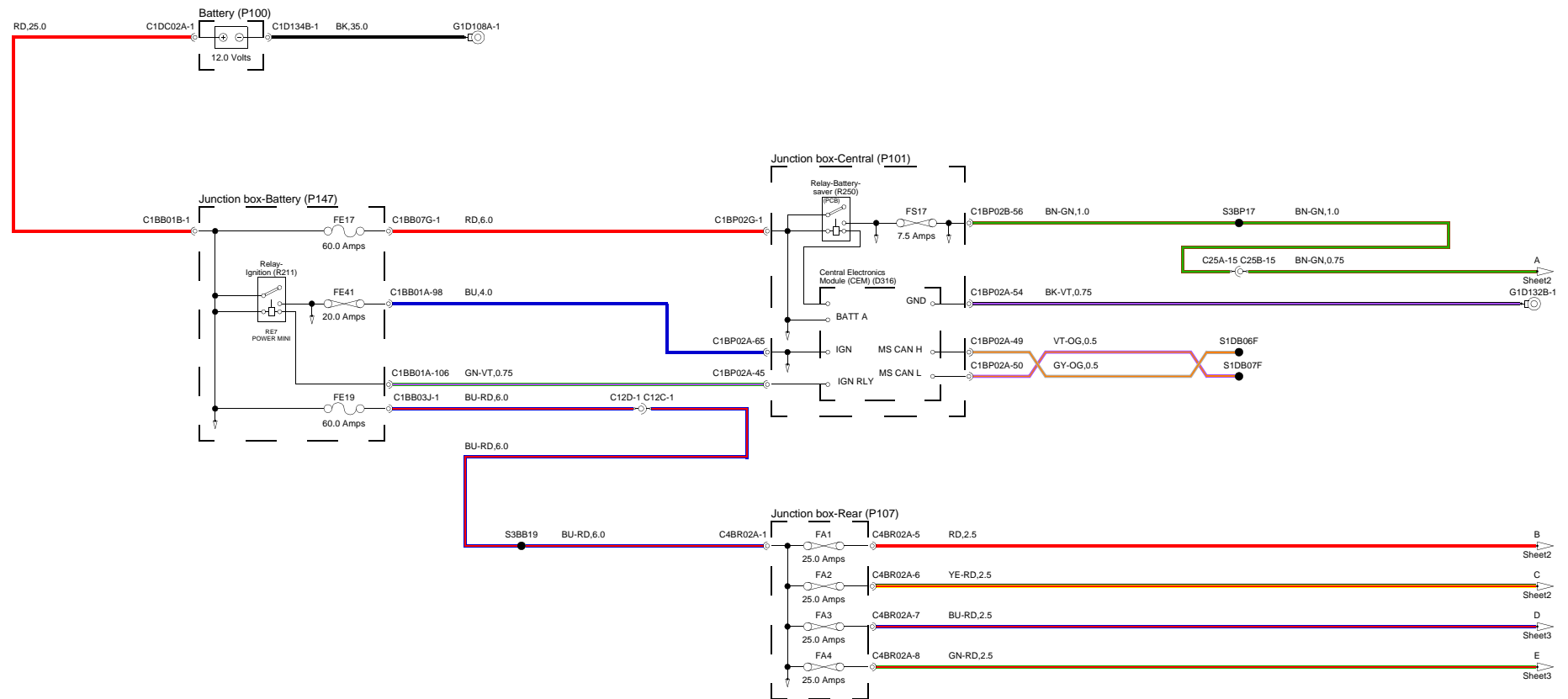


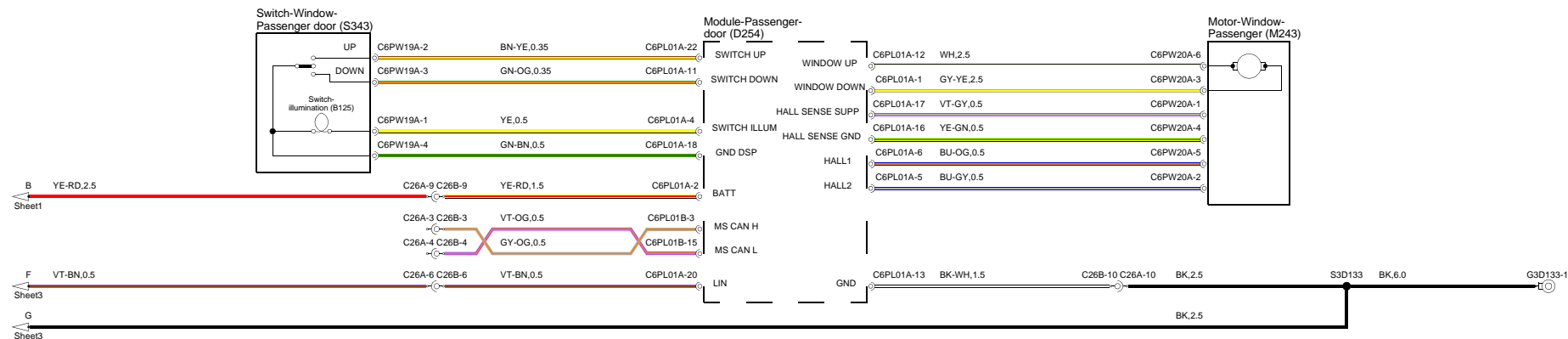


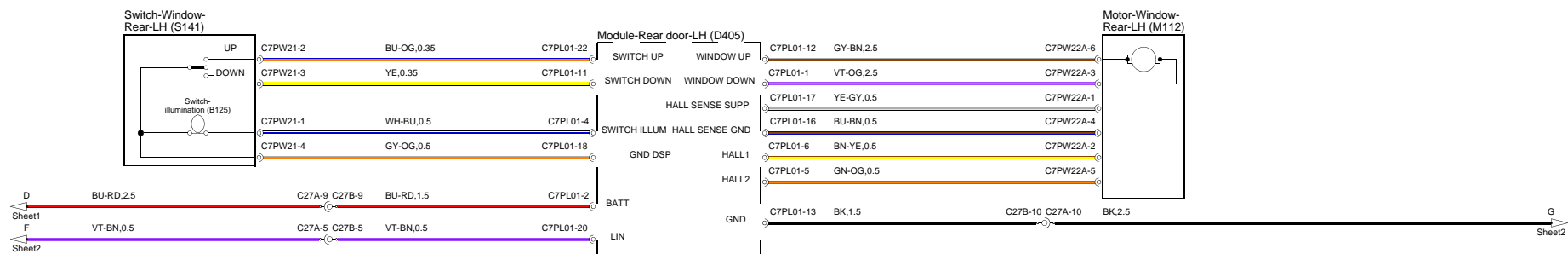
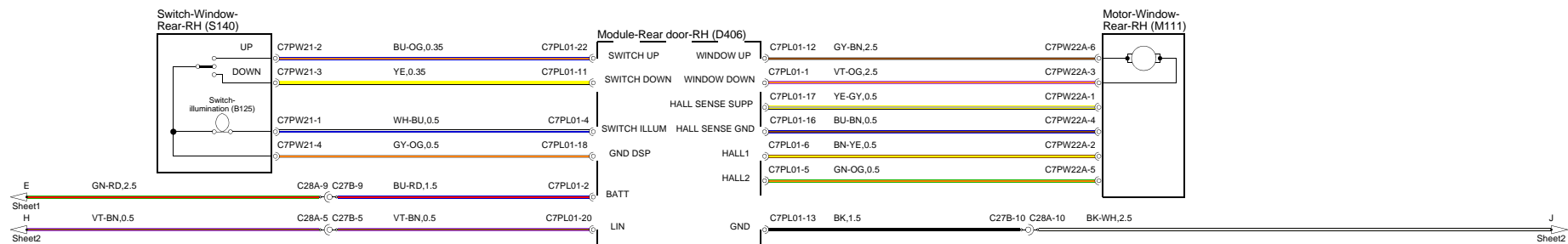


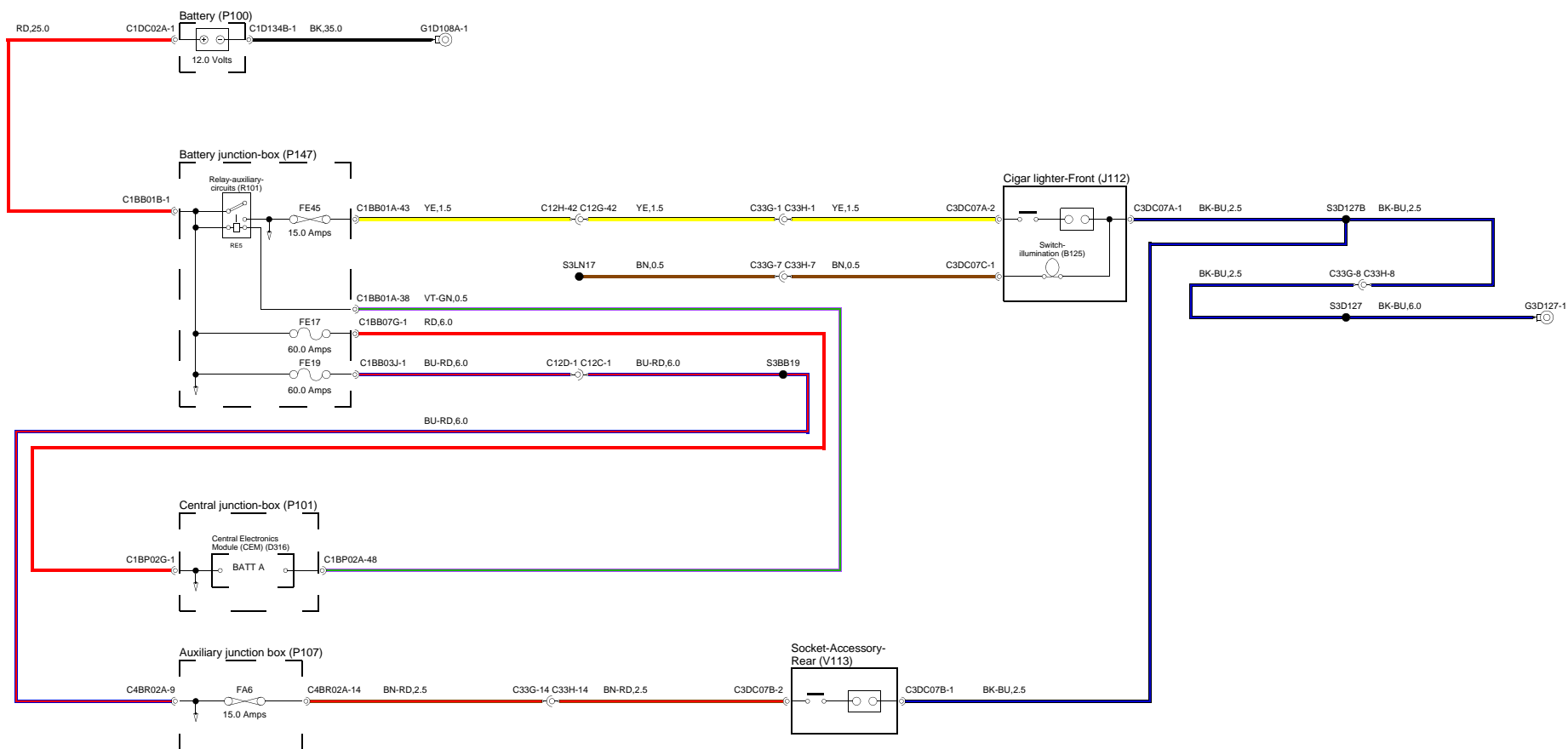


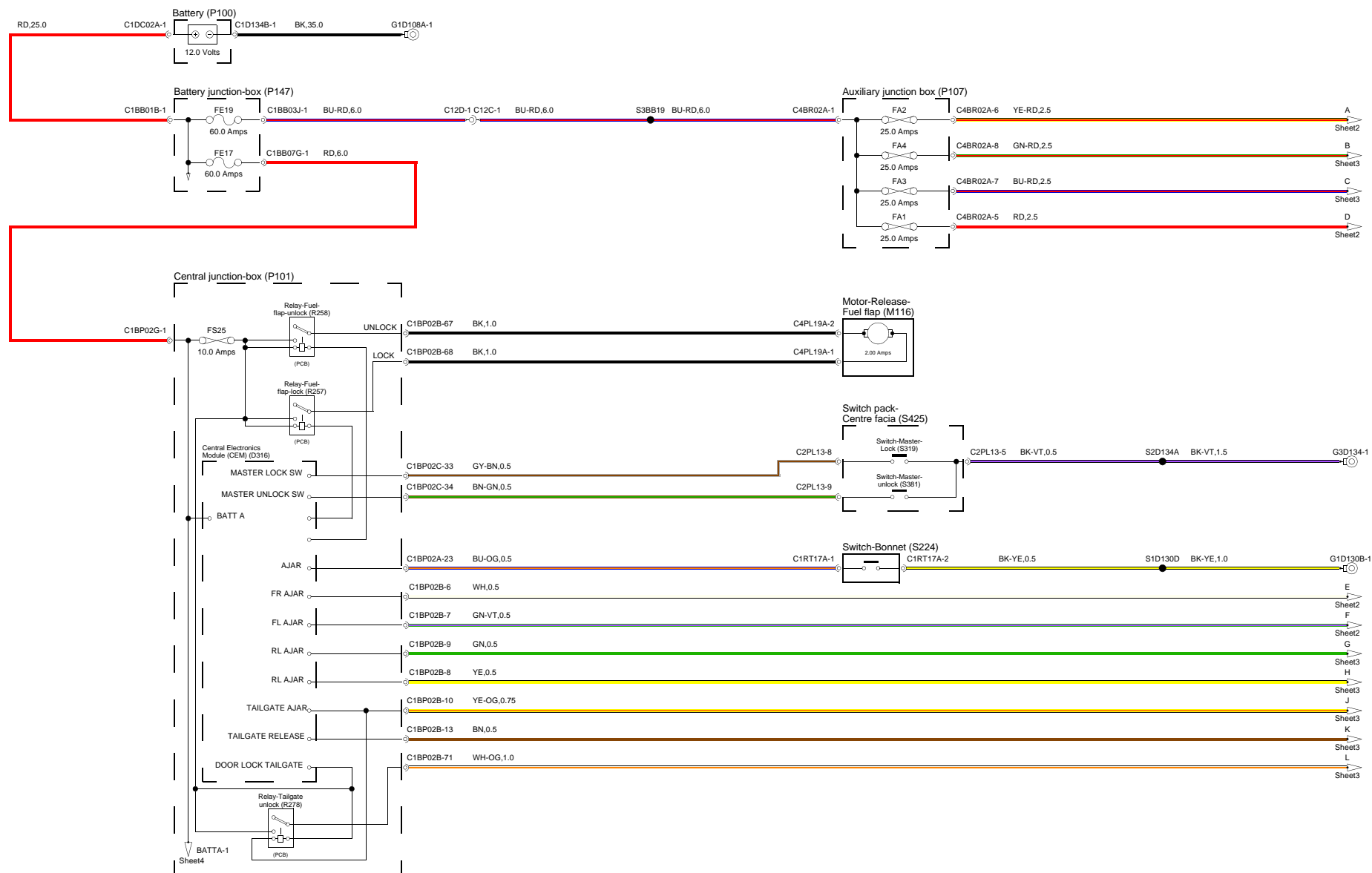




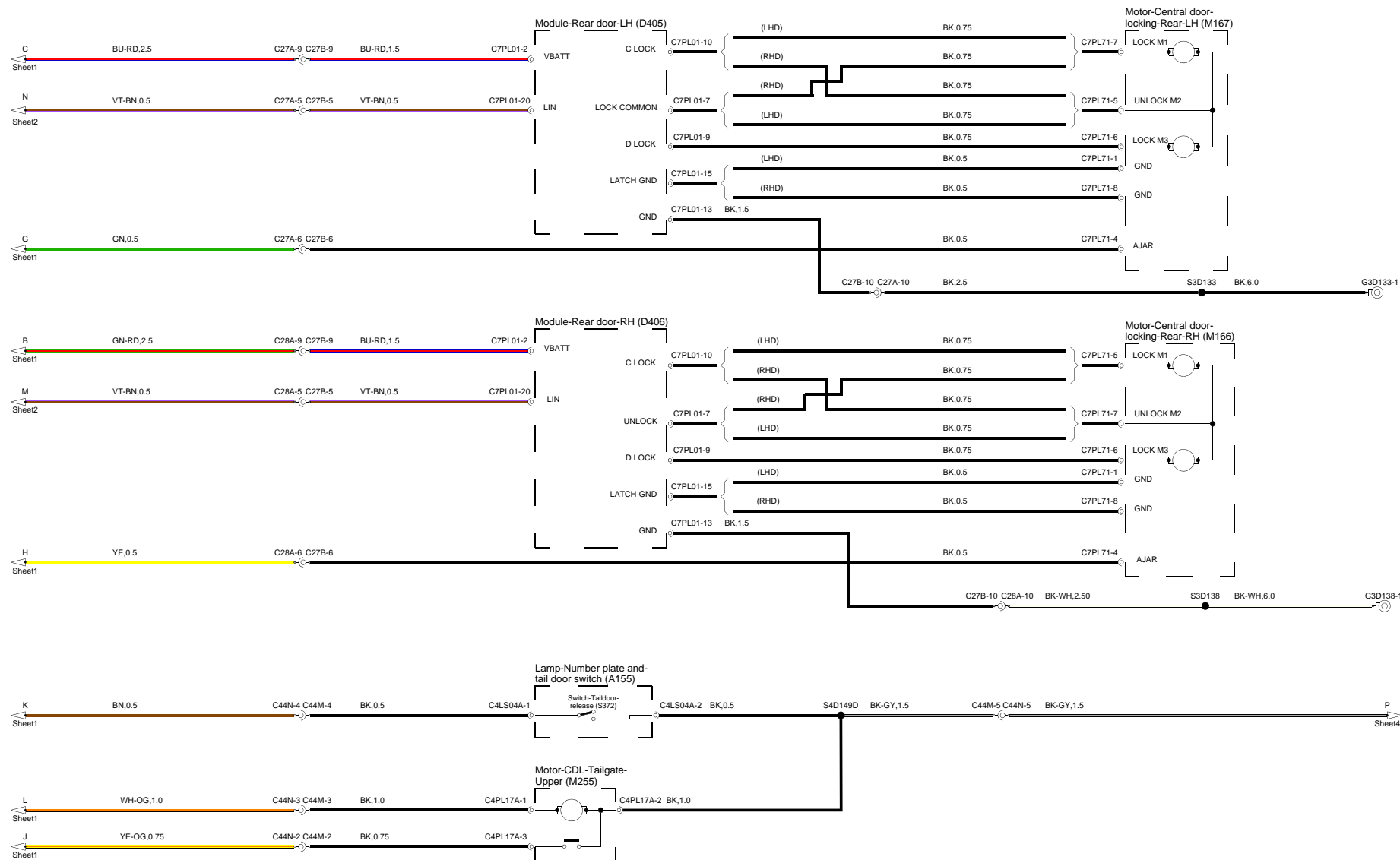


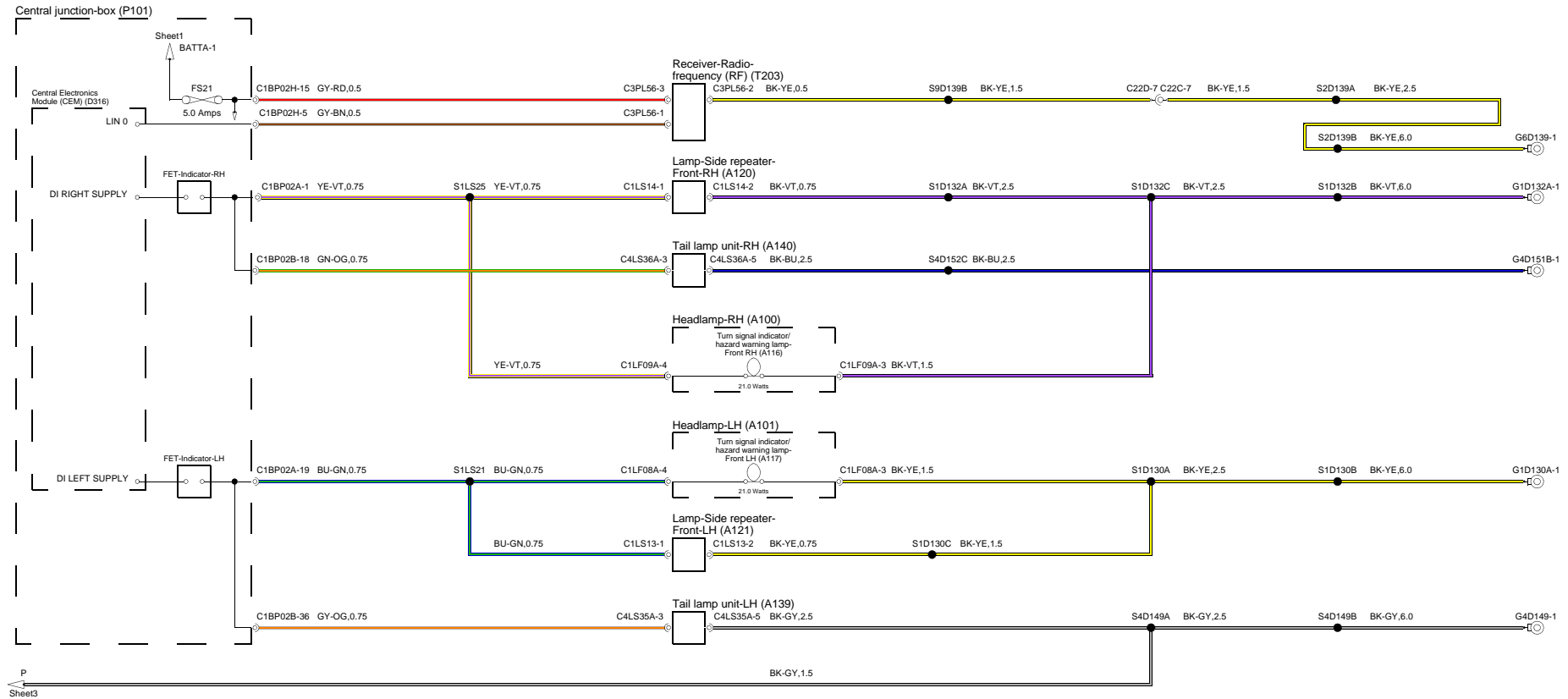










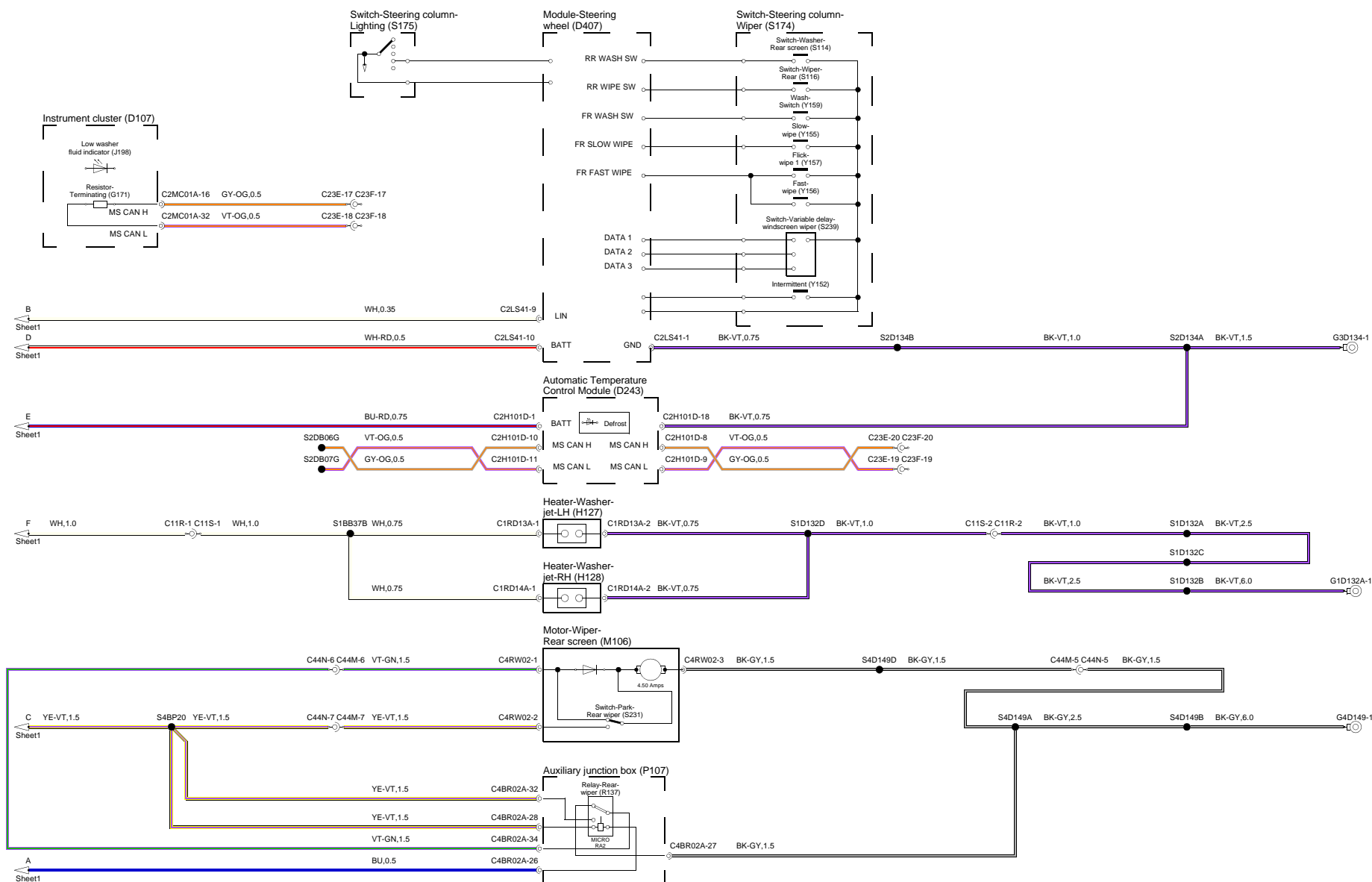




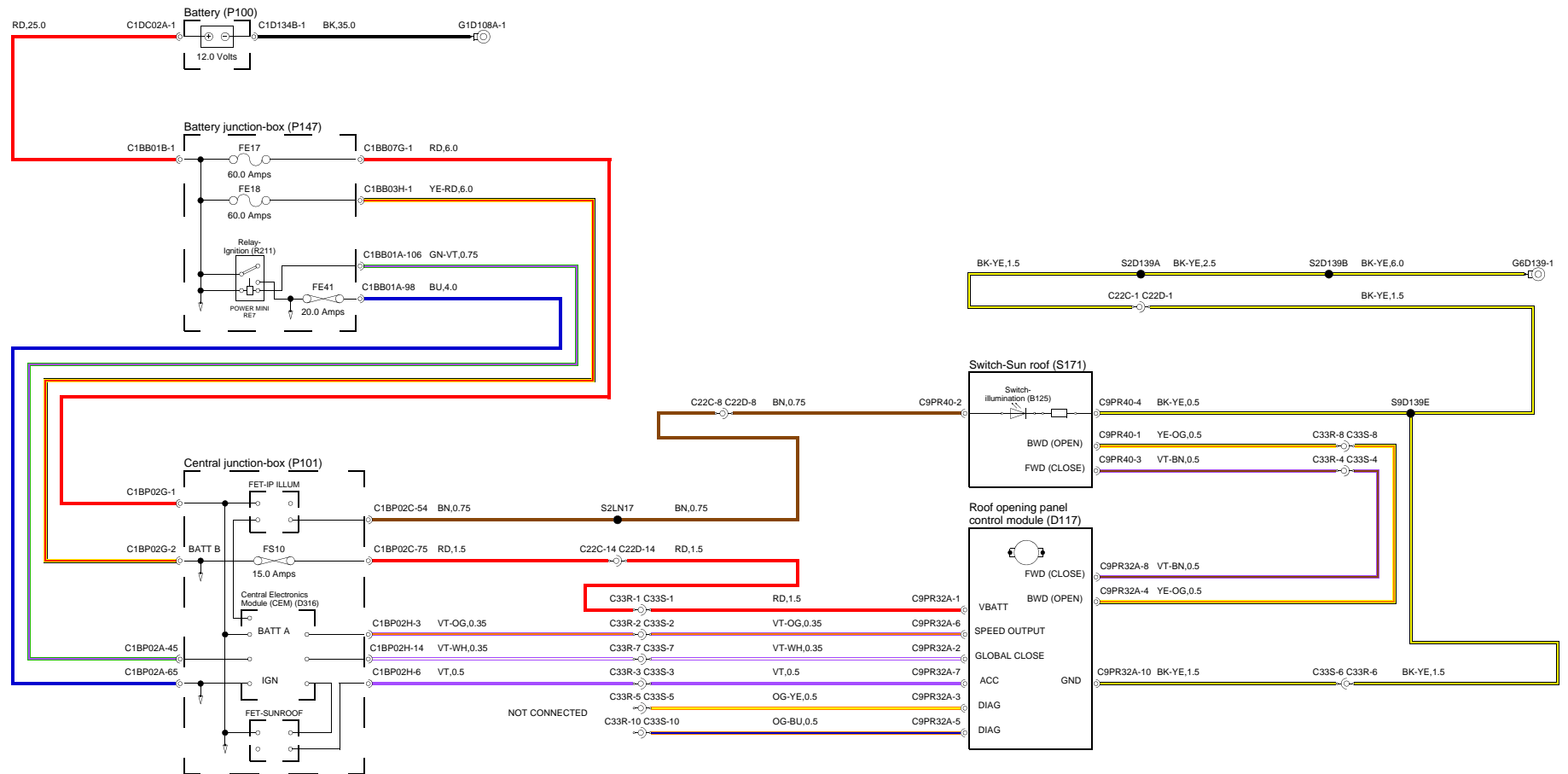
## 501-16 WIPERS AND WASHERS



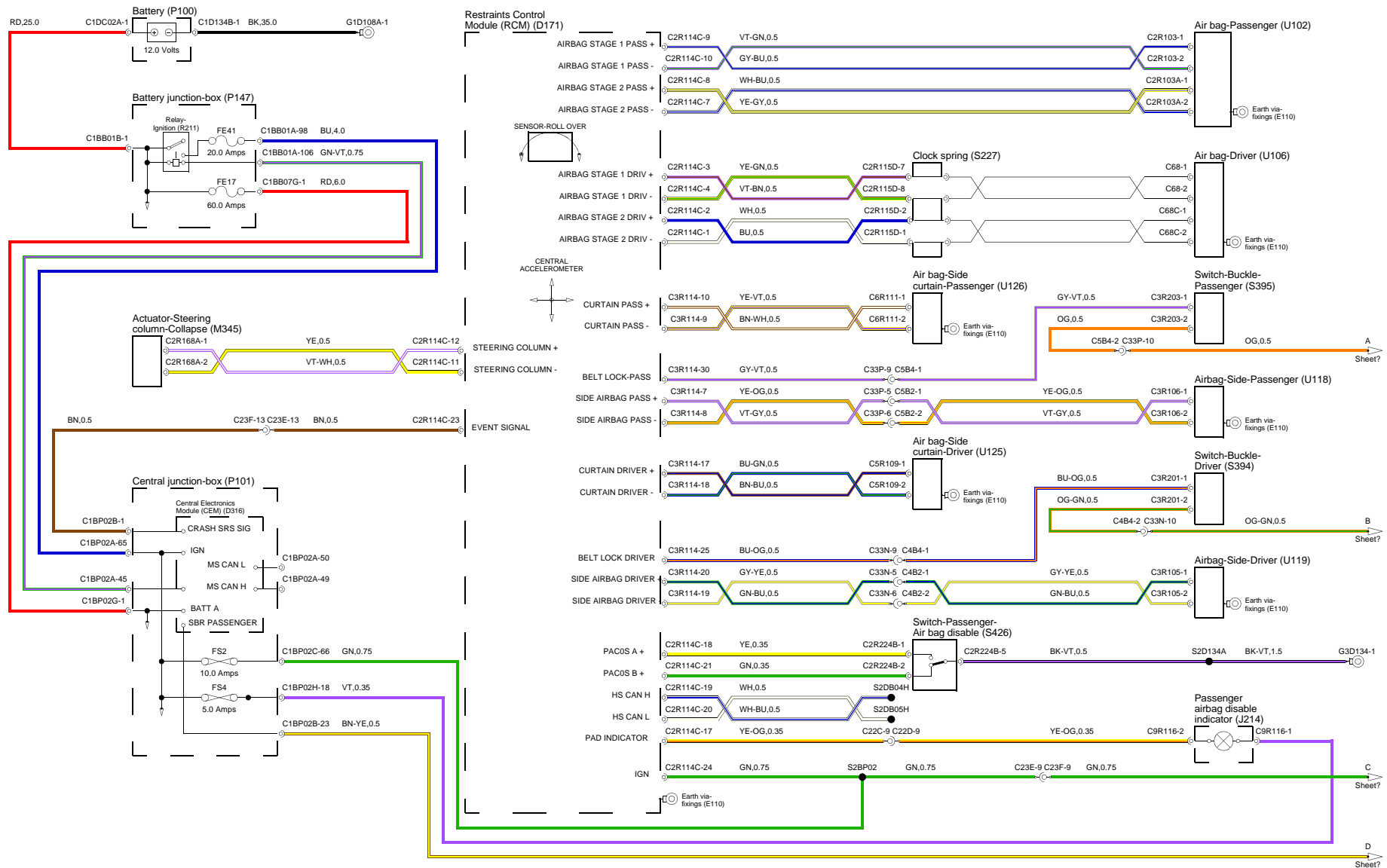
## 501-16 WIPERS AND WASHERS



## 501-17 ROOF OPENING PANEL



# 501-20 SUPPLEMENTAL RESTRAINT SYSTEM



# 501-20 SUPPLEMENTAL RESTRAINT SYSTEM

