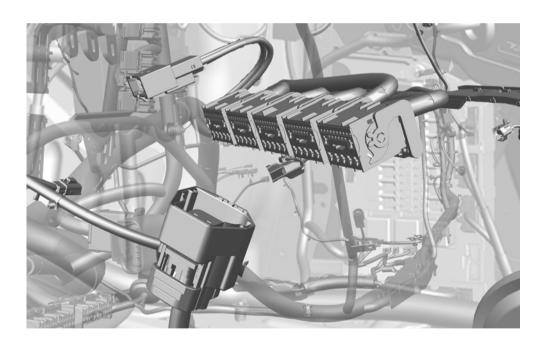


Electrical Wiring Diagrams



Defender (RHD)

VIN: 732615 - 751062



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Electrical Wiring Diagrams

Defender (RHD)

Published by Technical Communications, Land Rover Publication Part No. LRL 10 38 51 702, 08 2008

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	415-00 - INFORMATION AND ENTERTAINMENT SYSTEM	
USING THIS PUBLICATION	417-01 - EXTERIOR LIGHTING	
Health and safety		52
Using this publication		
Section numbering	· •	
Circuit sheet numbering		
Understanding the circuit diagrams		
	Head/Side lamps	
206-09 - ANTI-LOCK CONTROL	Dim dip	
	417-02 - INTERIOR LIGHTING	
303-06 - STARTING SYSTEM		68
Starting and charging - D4	418-00 - MODULE COMMUNICATIONS NETWORK	
303-14 - ELECTRONIC ENGINE CONTROLS	Diagnostic socket	70
D4	9 419-01 - ANTI-THEFT SYSTEM	
412-01 - CLIMATE CONTROL	Active	71
440 00 AUNIU IARV OLIMATE CONTROL	E04 40 OF 1 TIMO	
412-02 - AUXILIARY CLIMATE CONTROL	501-10 - SEATING	
Non air conditioning		75
Windshield heater		
Rear window heater		
440 OO INCTRUMENT OLUCTED AND DANIEL ILLUMINATION	Window lift	76
413-00 - INSTRUMENT CLUSTER AND PANEL ILLUMINATION	18 501-12 - INSTRUMENT PANEL AND CONSOLE	
	······································	77
413-01 - INSTRUMENT CLUSTER	Cigar lighter	
410-01 - INGTITOMENT GEOGIEIT	20	
	501-16 - WIPERS AND WASHERS	
413-06 - HORN	Rear	79
413-07 - CLOCK		
	24	
414-01 - BATTERY, MOUNTING AND CABLES		
Battery junction box	25	
Splices		
Header joints		
Ground distribution		

ABBREVIATIONS

Abbreviation	Description
ABS	Anti-lock braking system
ADRC	Adaptive damping
AFS	Adaptive front lighting system
AUT0	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

DEFENDER (RHD) - VIN: 732615 - 751062 -

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 autoelectricians. 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.

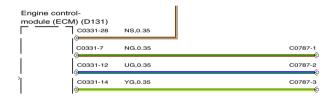
Note: Where circuit diagrams show more than one sub-system, the circuit will be located in the section that carries the first-named sub-system, for example: Starting and Charging will be located under section 303-06 Starting System, since 'Starting' is the first-named sub-system.

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.

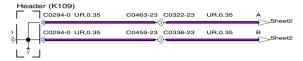
Wire length (Power and Ground Distribution only)

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.

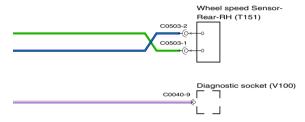
Line Types



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.



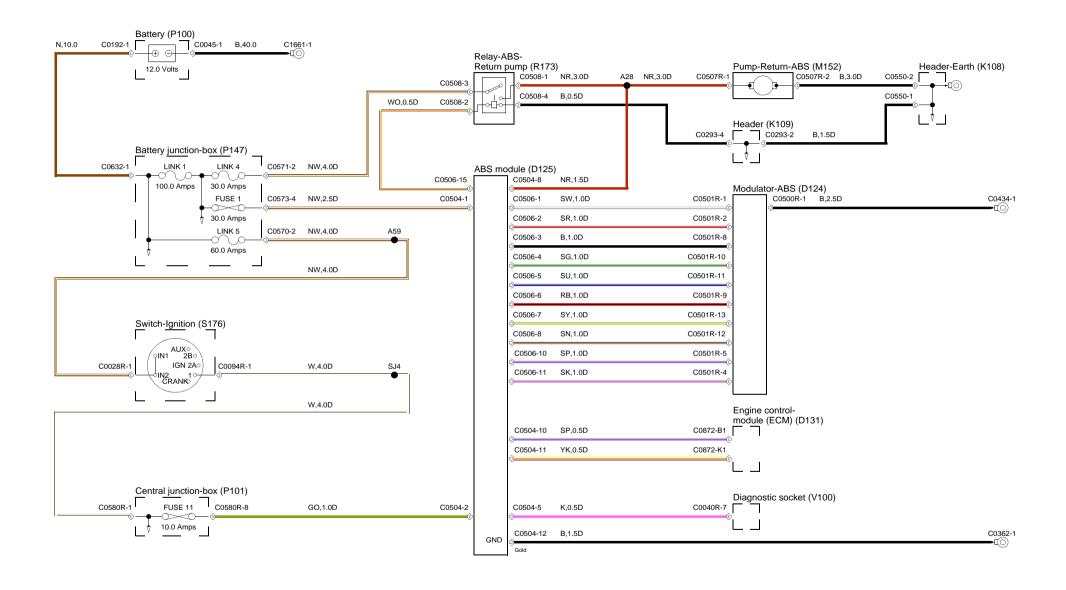
The cup and ball symbol represents the male and female halves of connector. Most connectors plug directly into a component but some are wired directly to the component using a 'flylead' as with C0503 above.

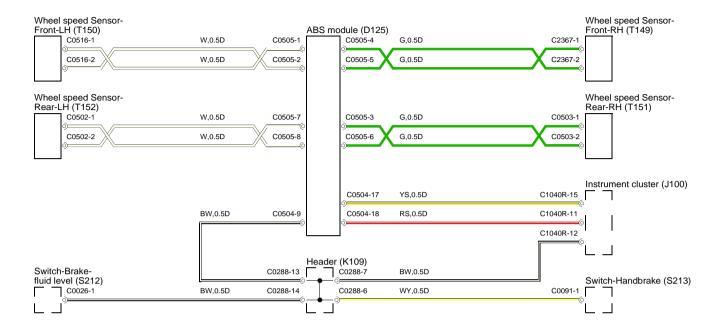
Ground points

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.

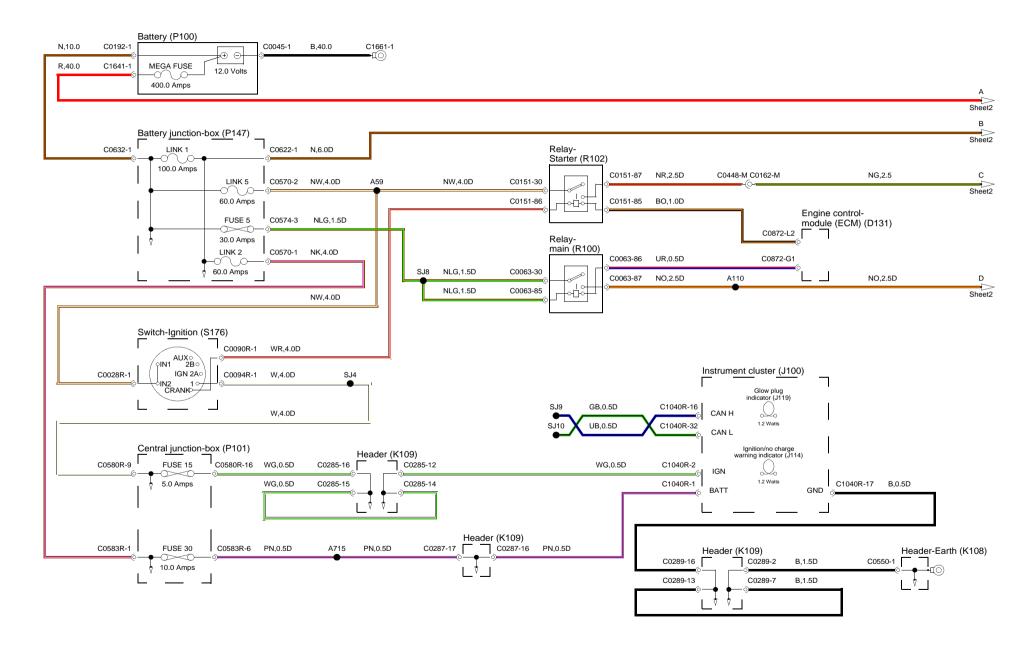
Colour Codes

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

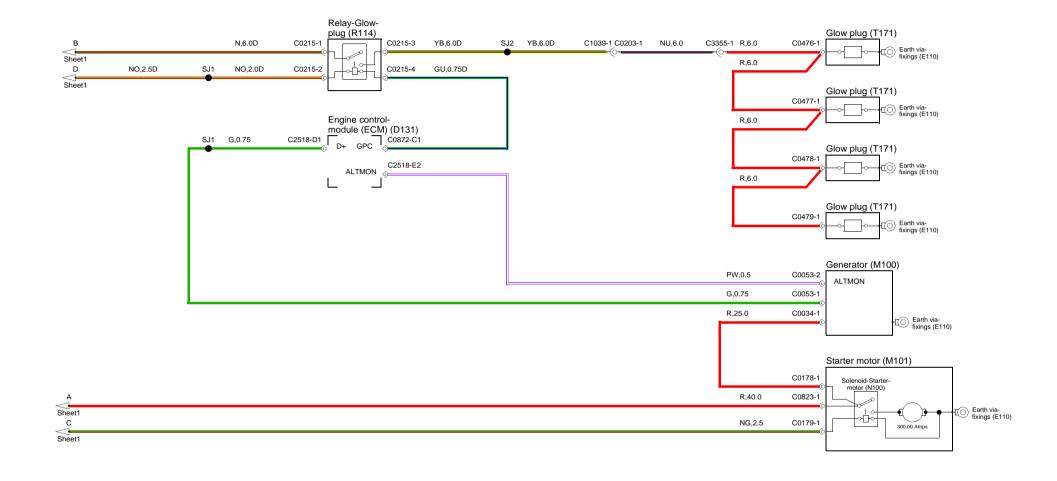




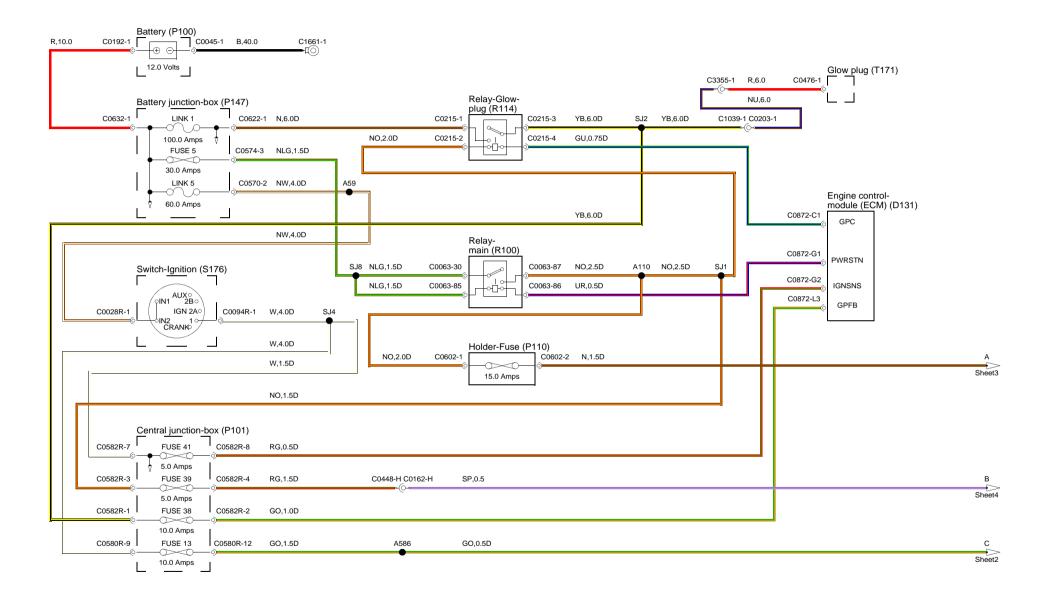
303-06 - STARTING SYSTEM Starting and charging - D4

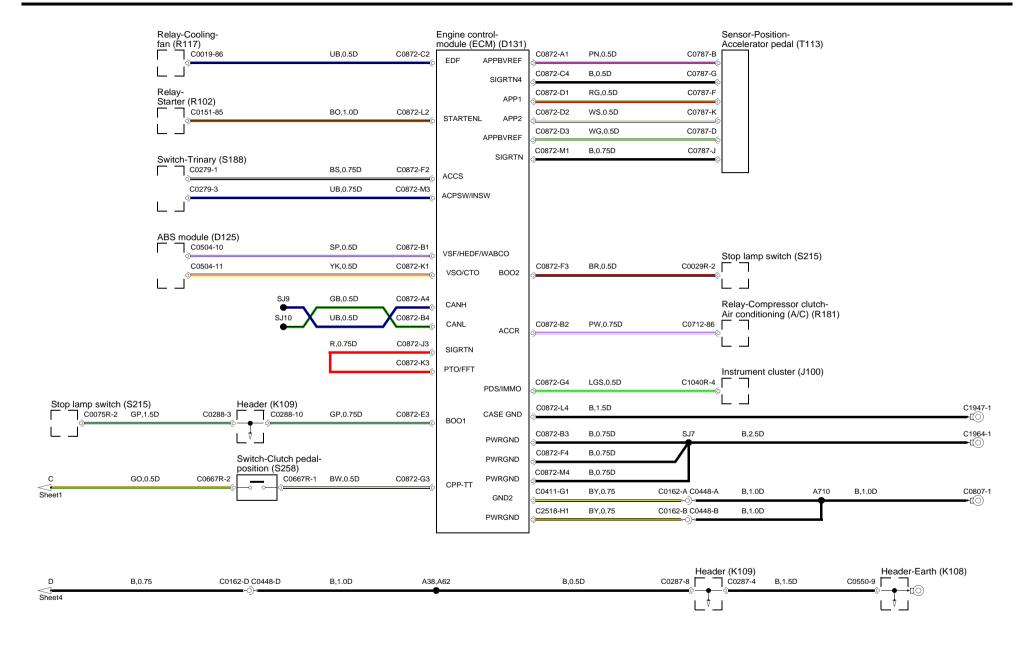


303-06 - STARTING SYSTEM Starting and charging - D4

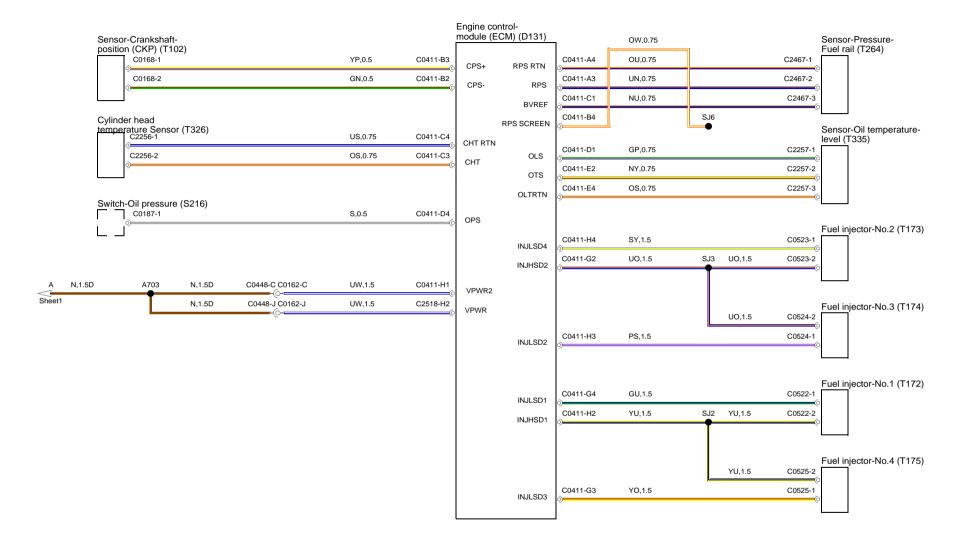


303-14 - ELECTRONIC ENGINE CONTROLS

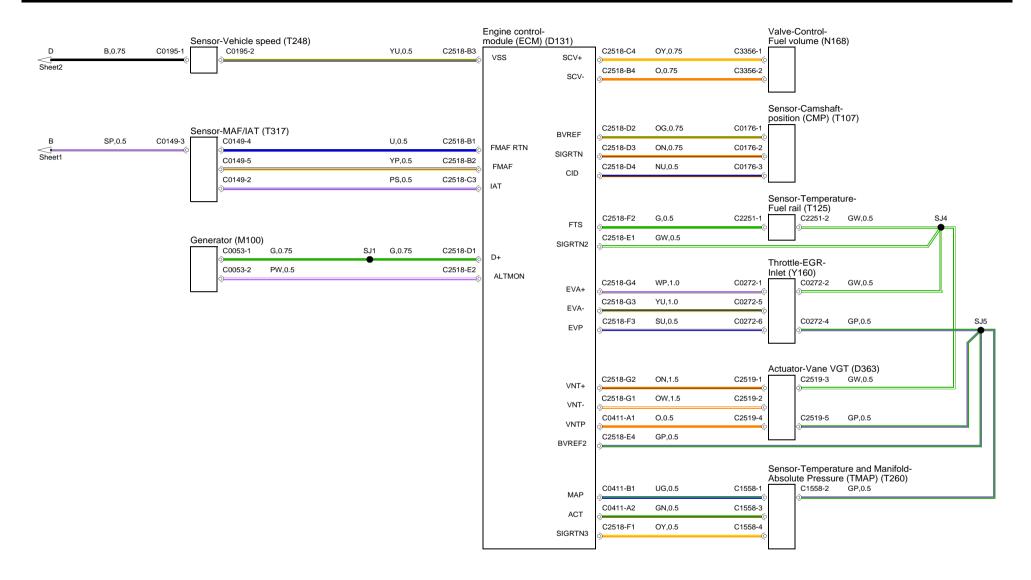


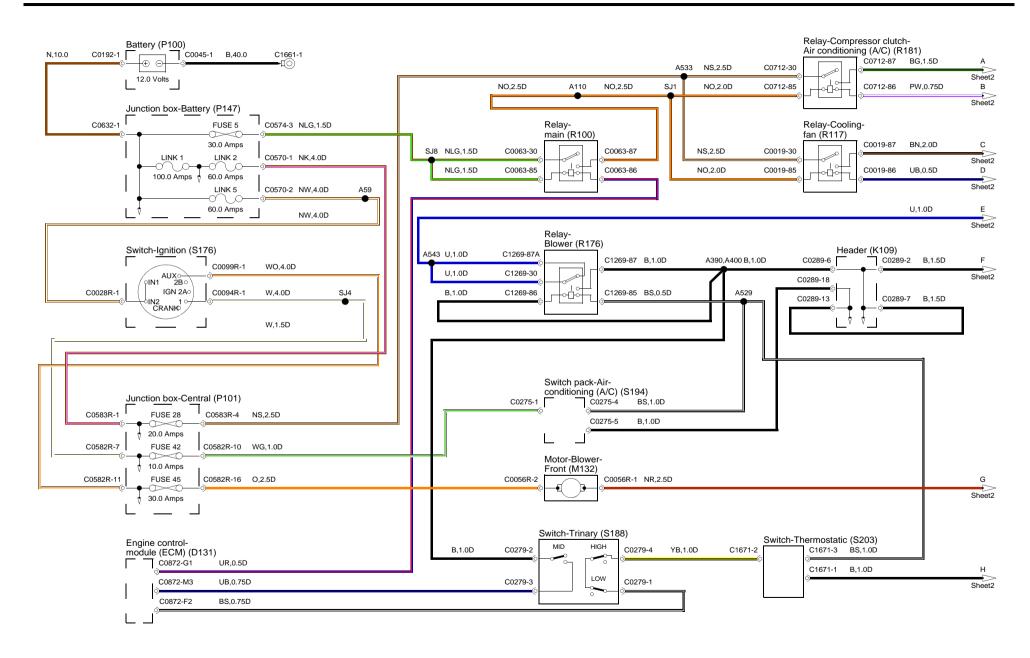


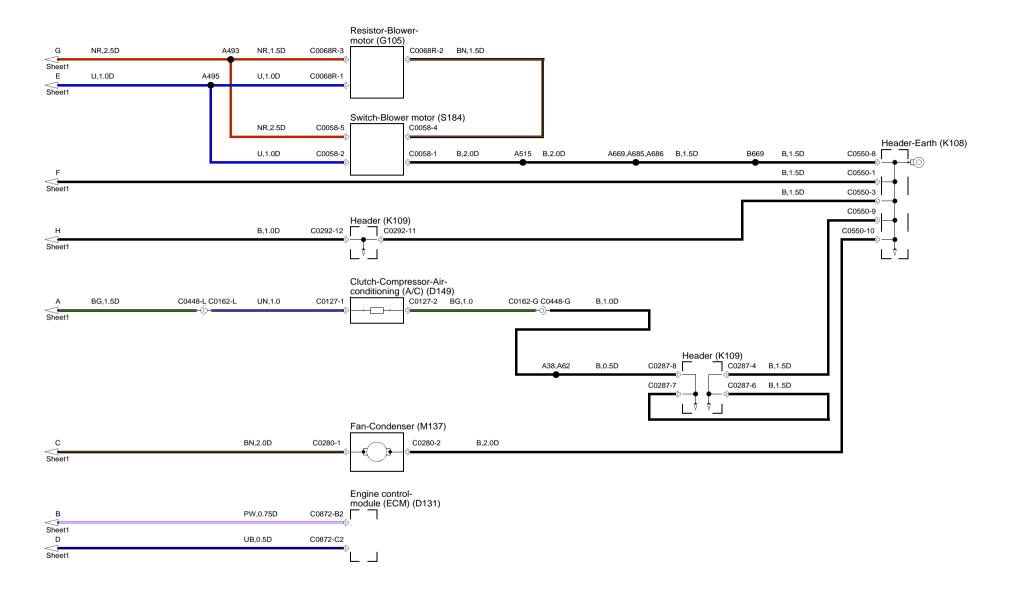
303-14 - ELECTRONIC ENGINE CONTROLS



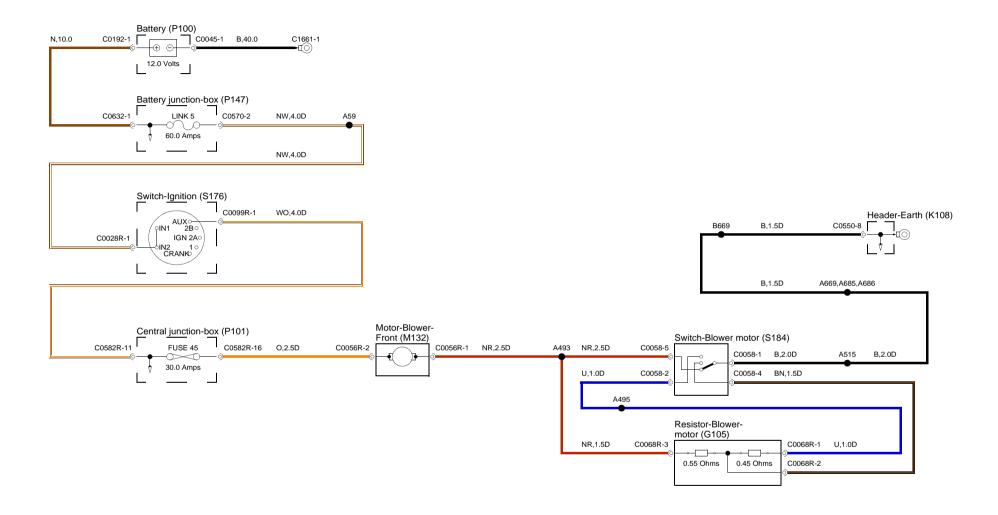
303-14 - ELECTRONIC ENGINE CONTROLS D4



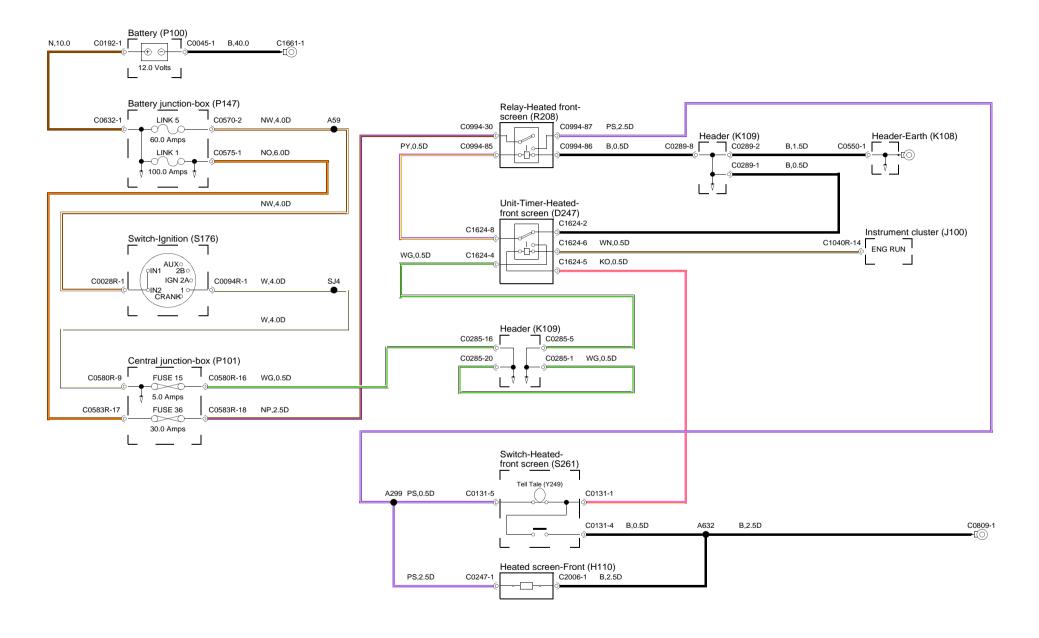




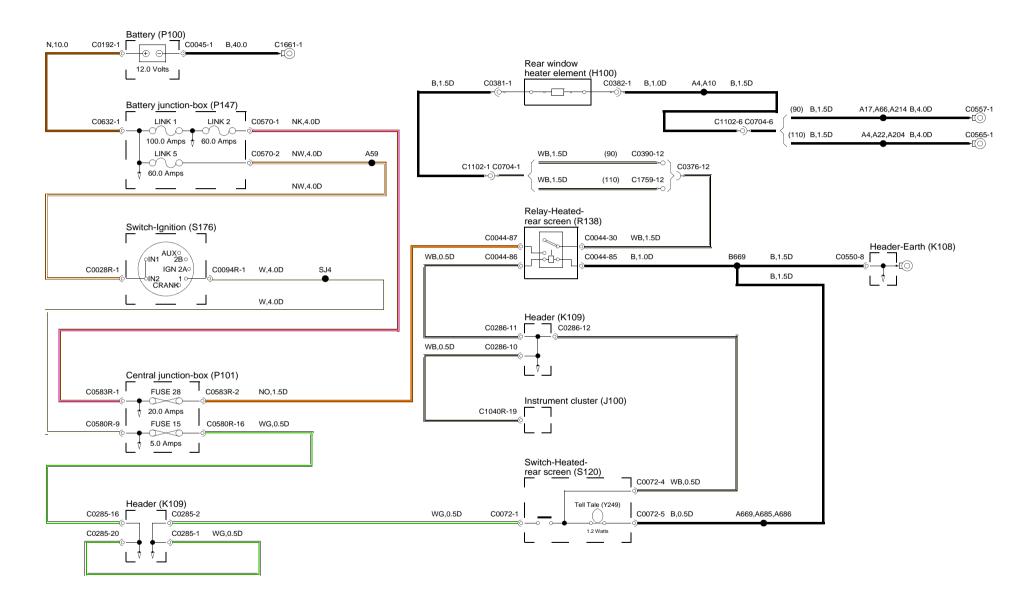
412-02 - AUXILIARY CLIMATE CONTROL Non air conditioning

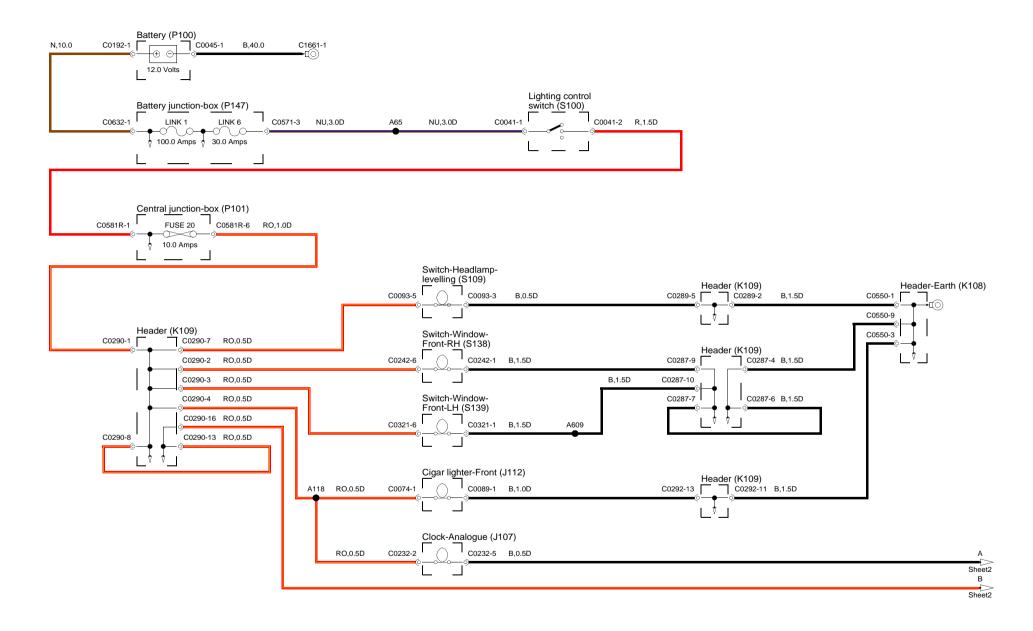


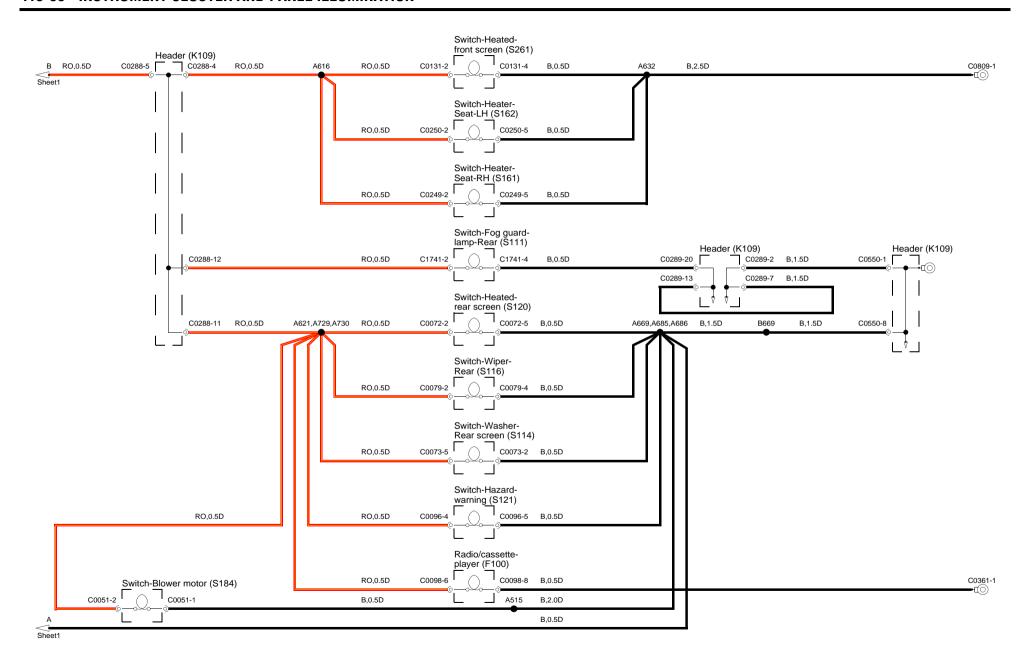
412-02 - AUXILIARY CLIMATE CONTROL Windshield heater

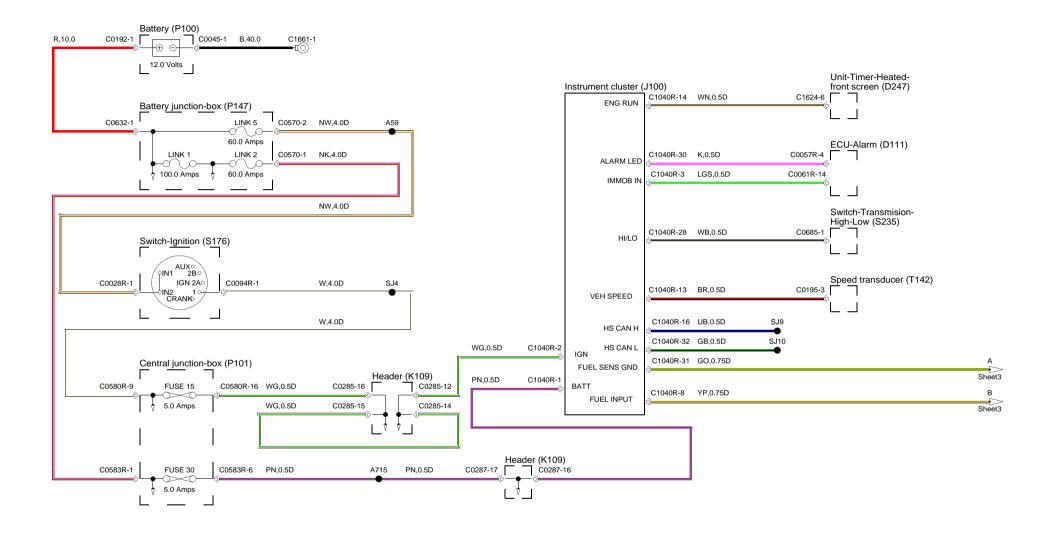


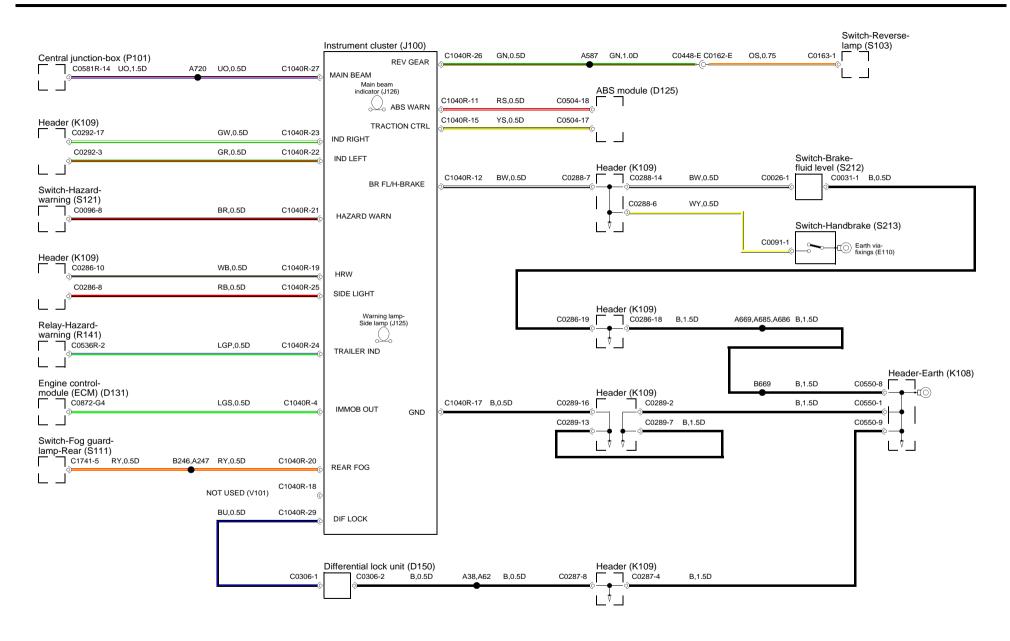
412-02 - AUXILIARY CLIMATE CONTROL Rear window heater

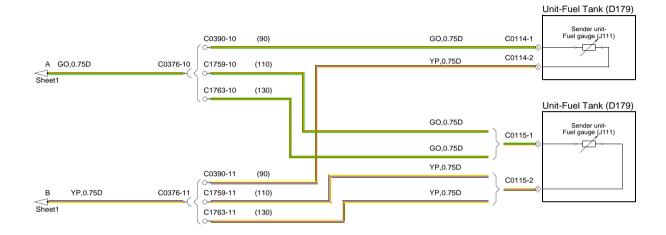


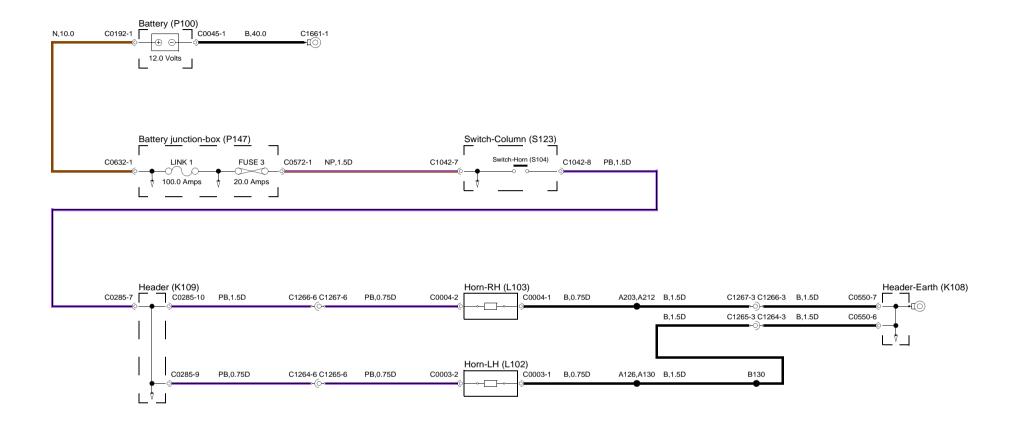


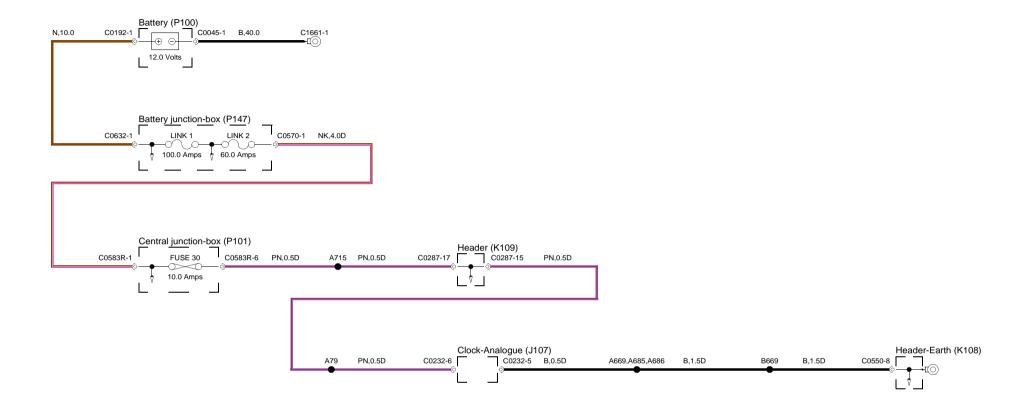


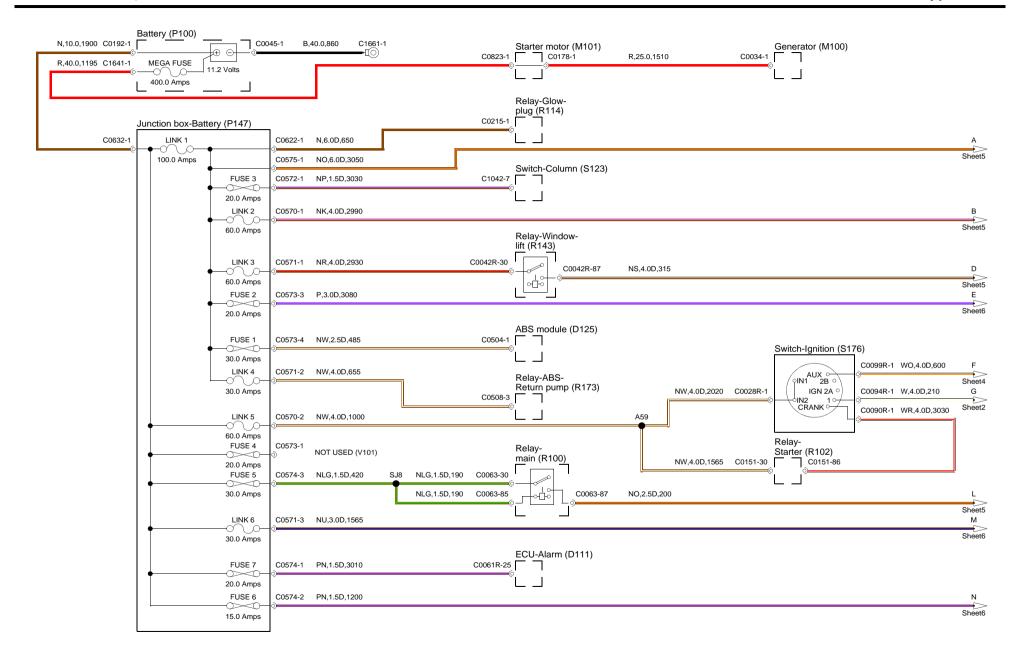


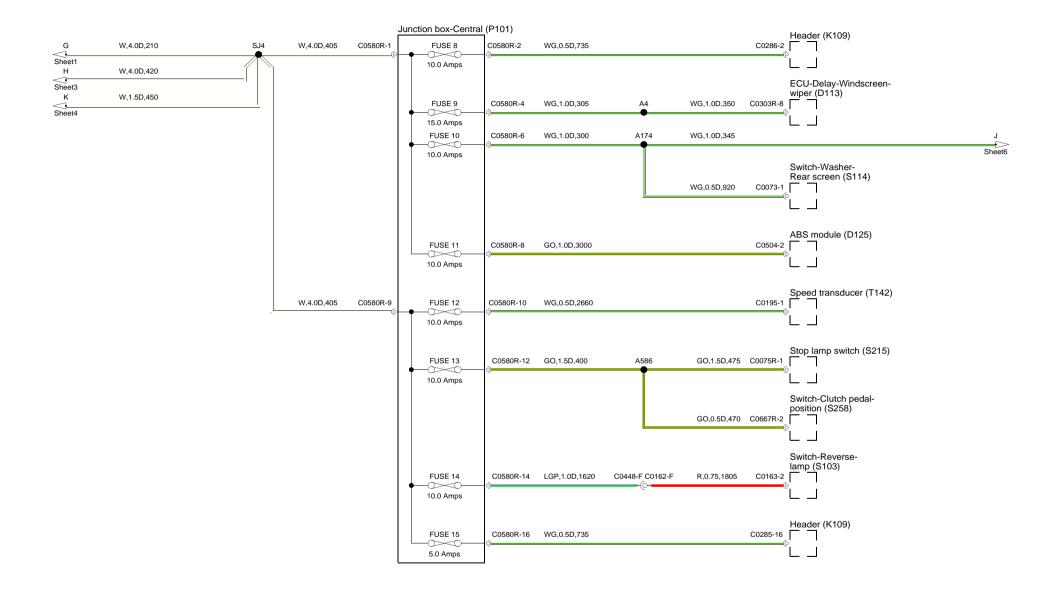


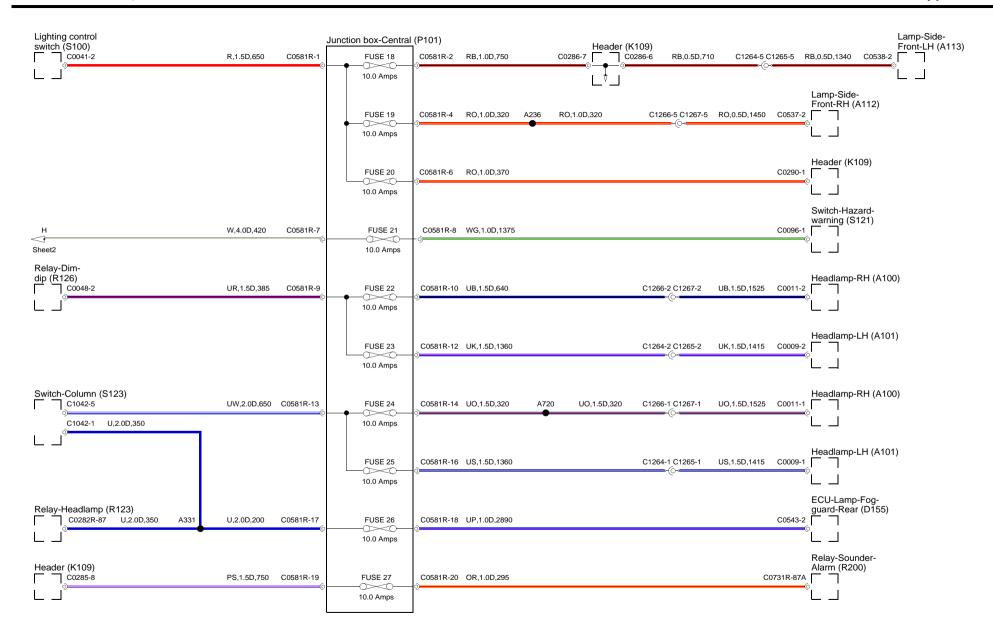


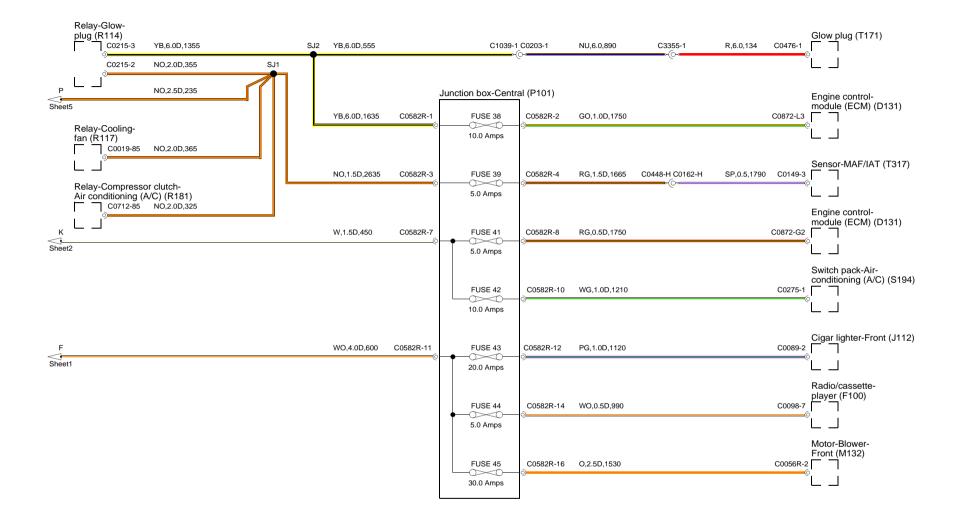


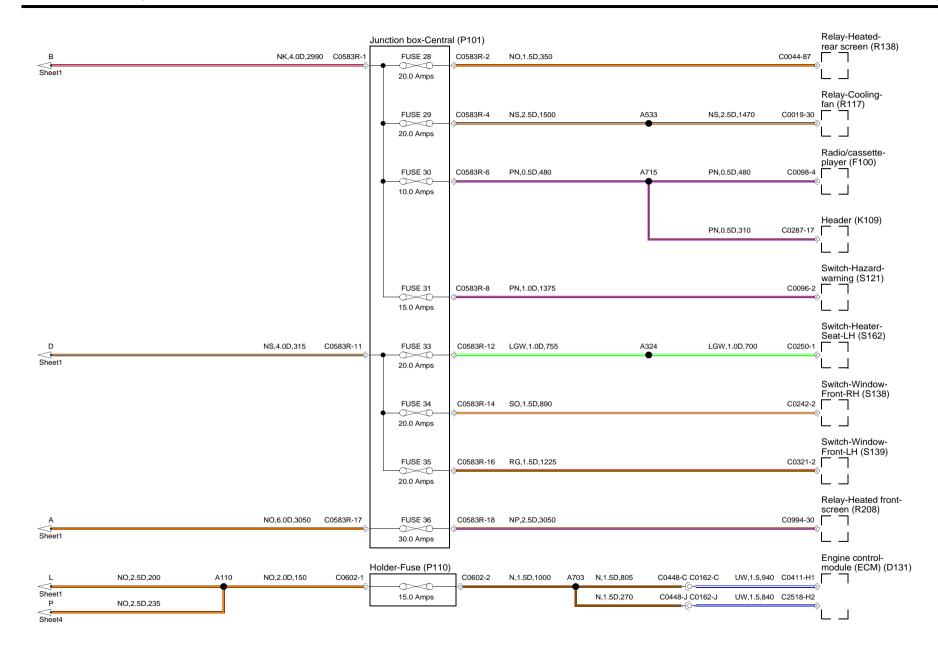


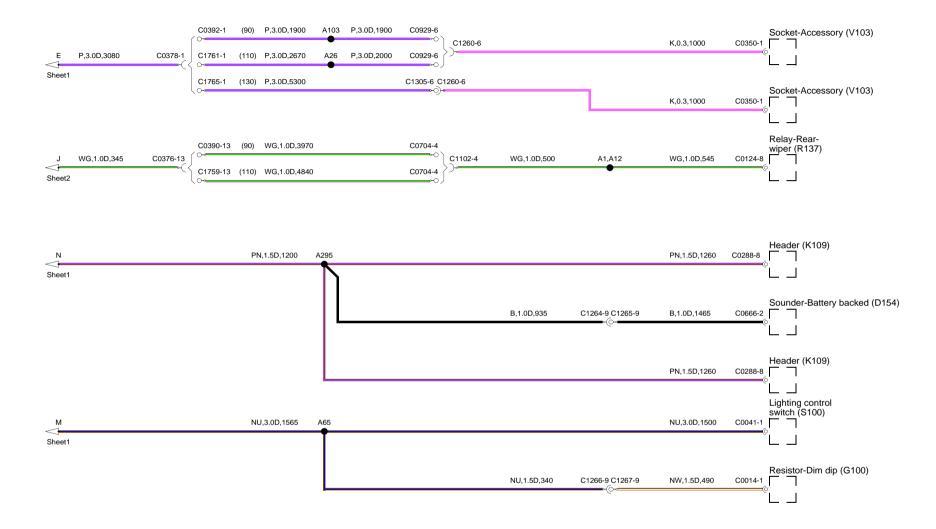


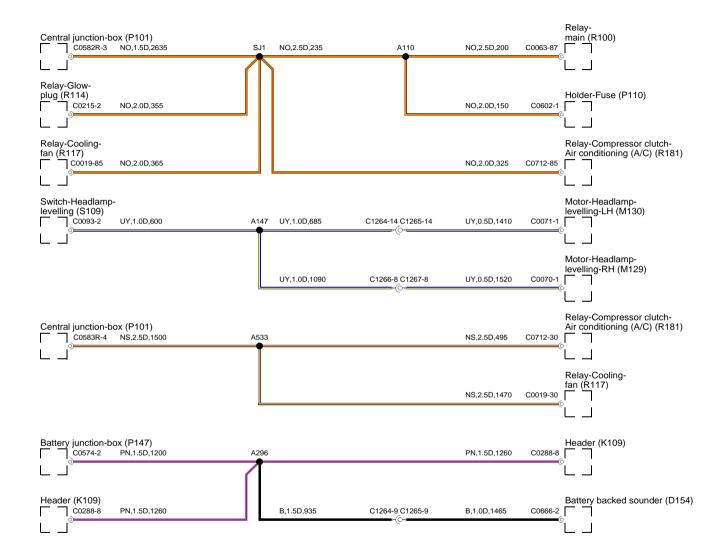


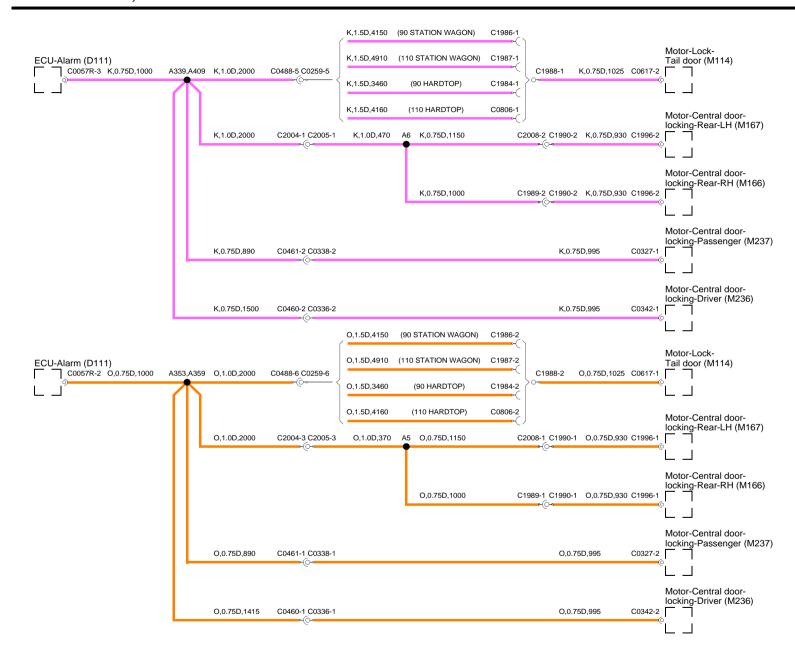


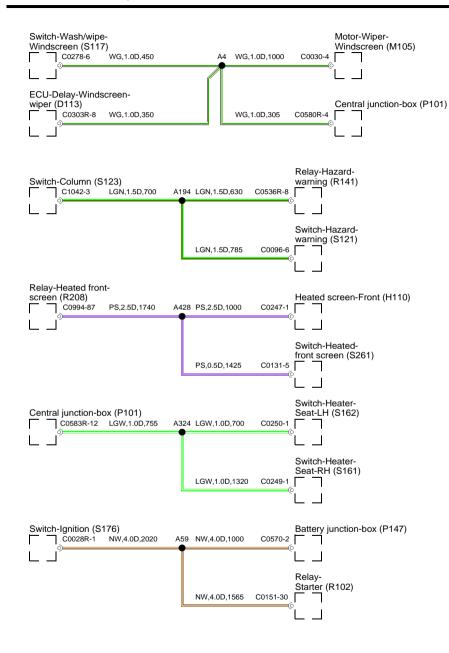


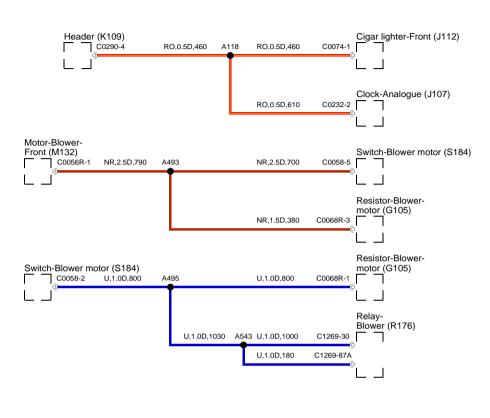


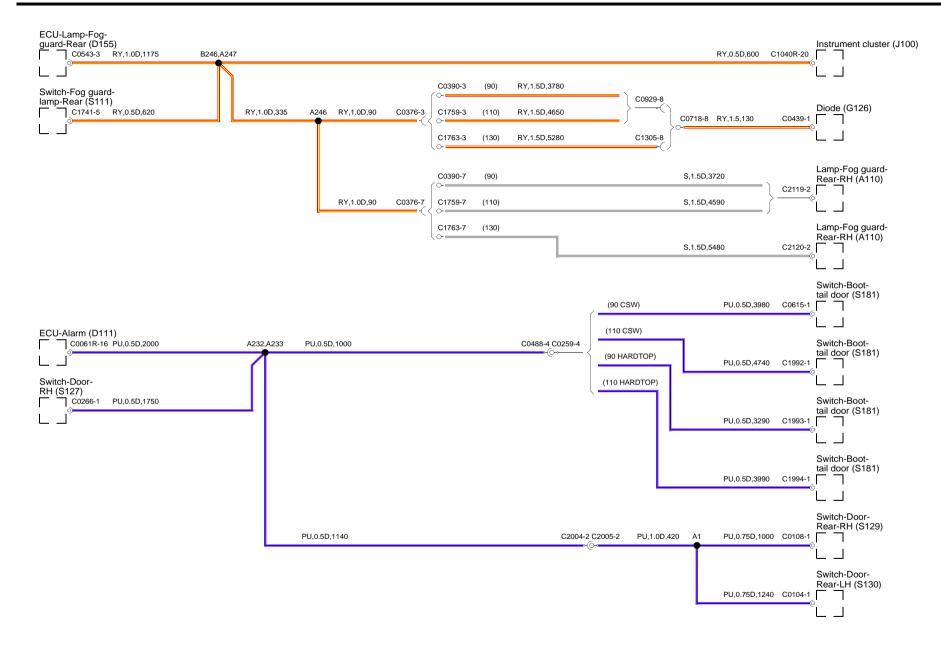


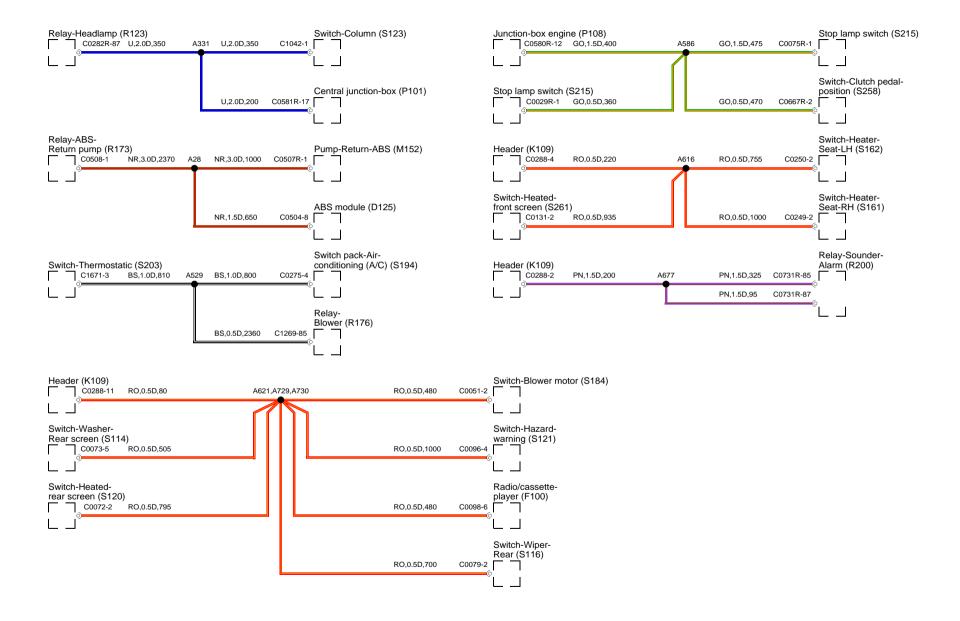


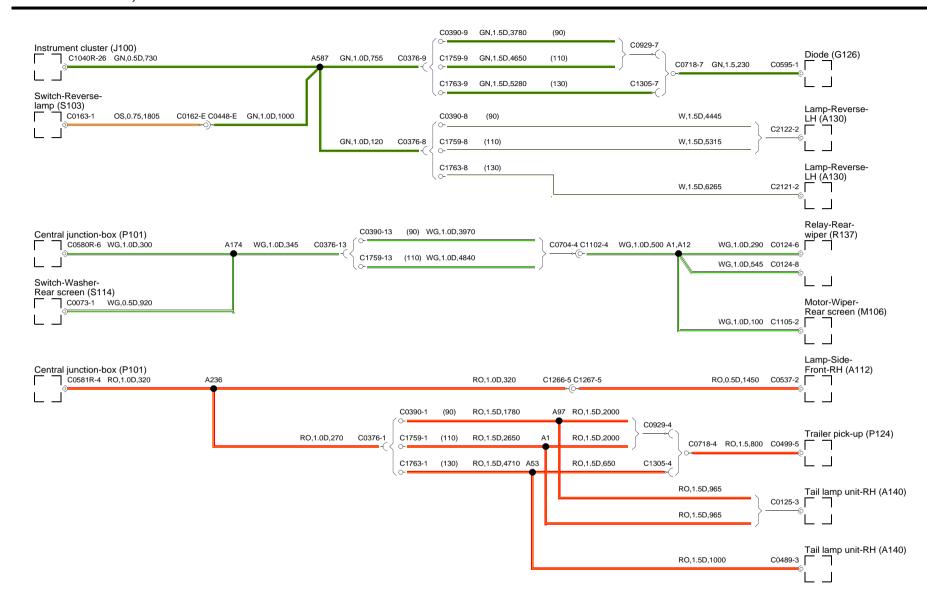


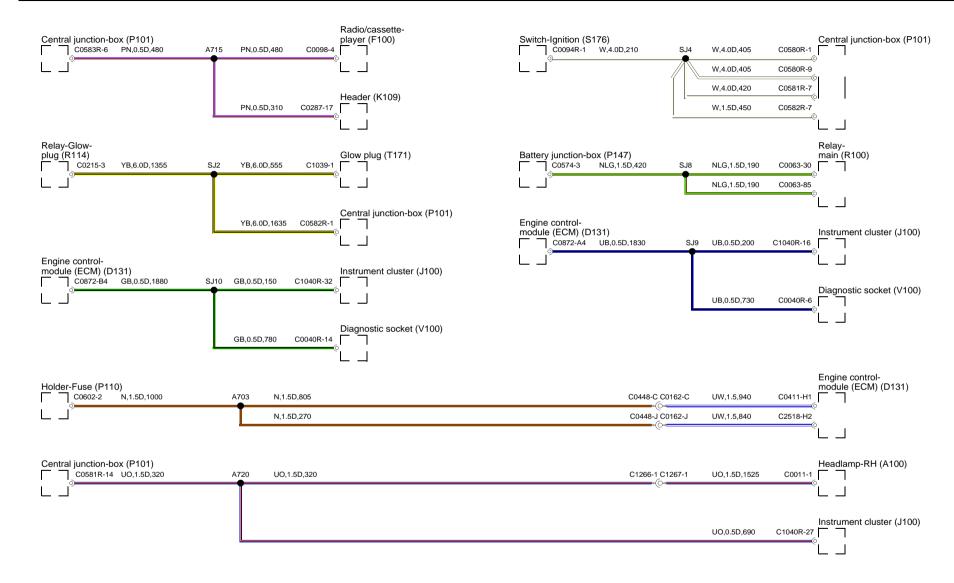


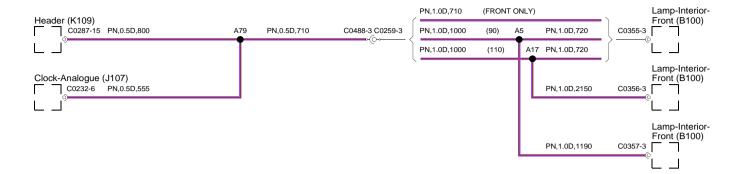


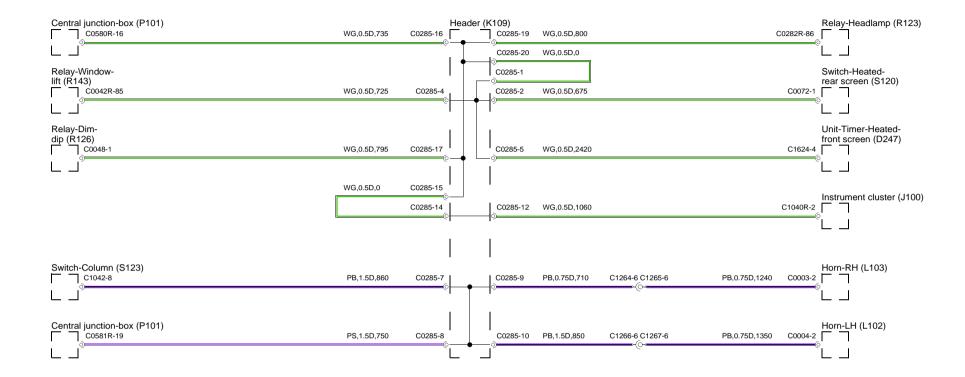


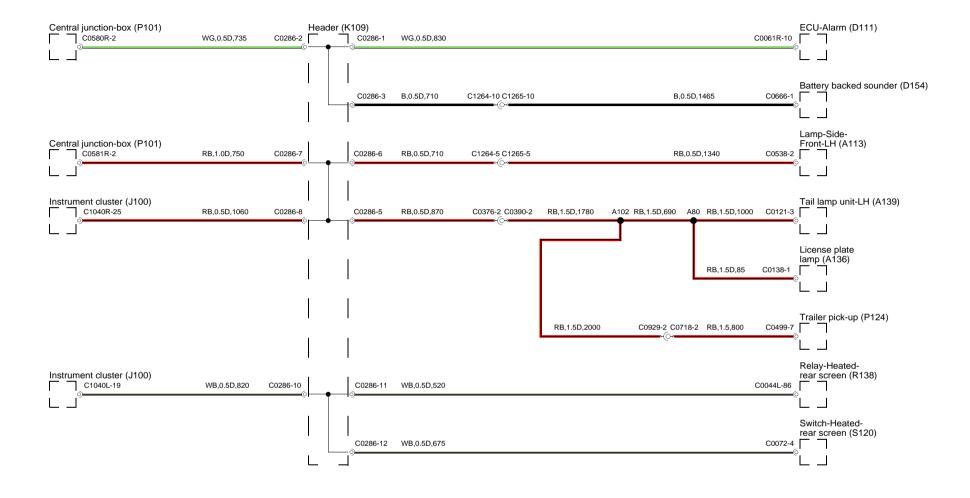


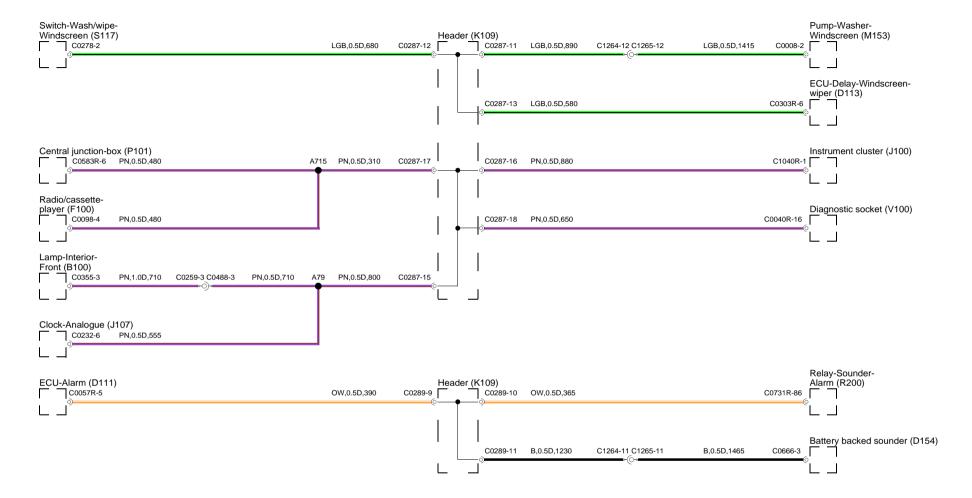


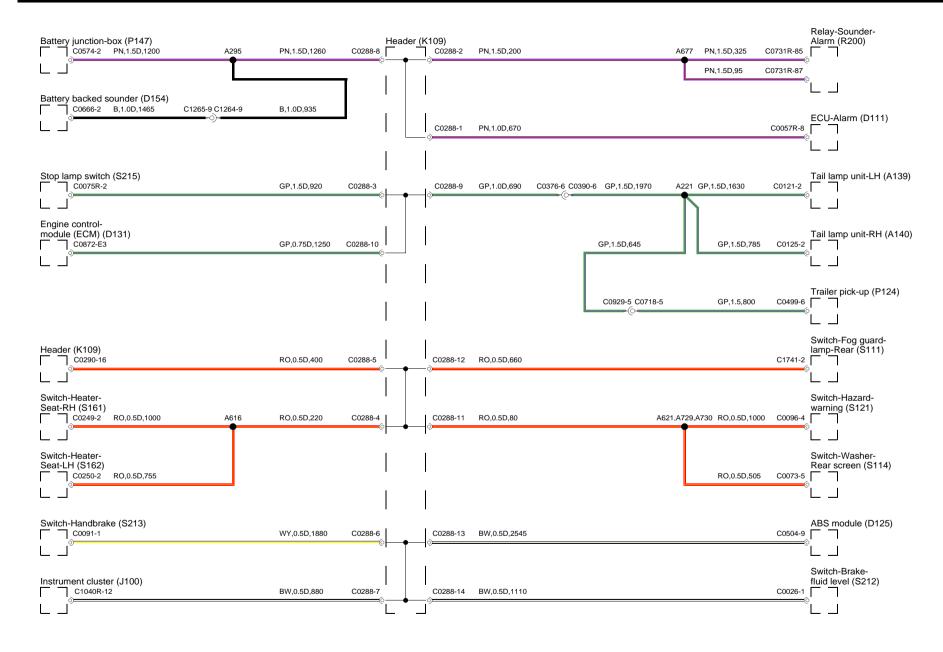


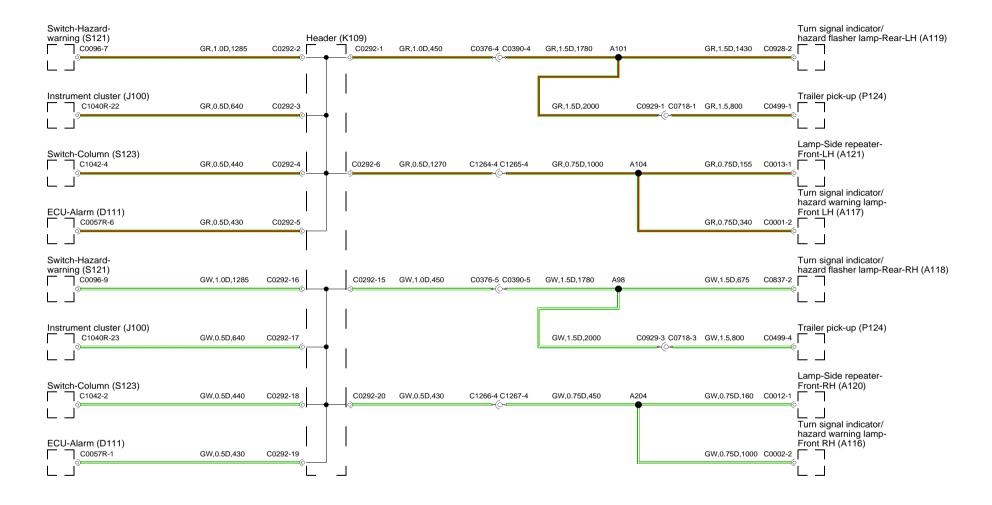


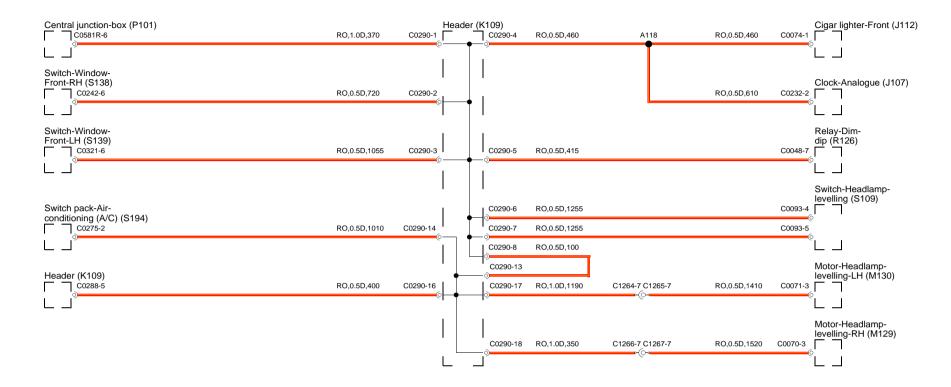


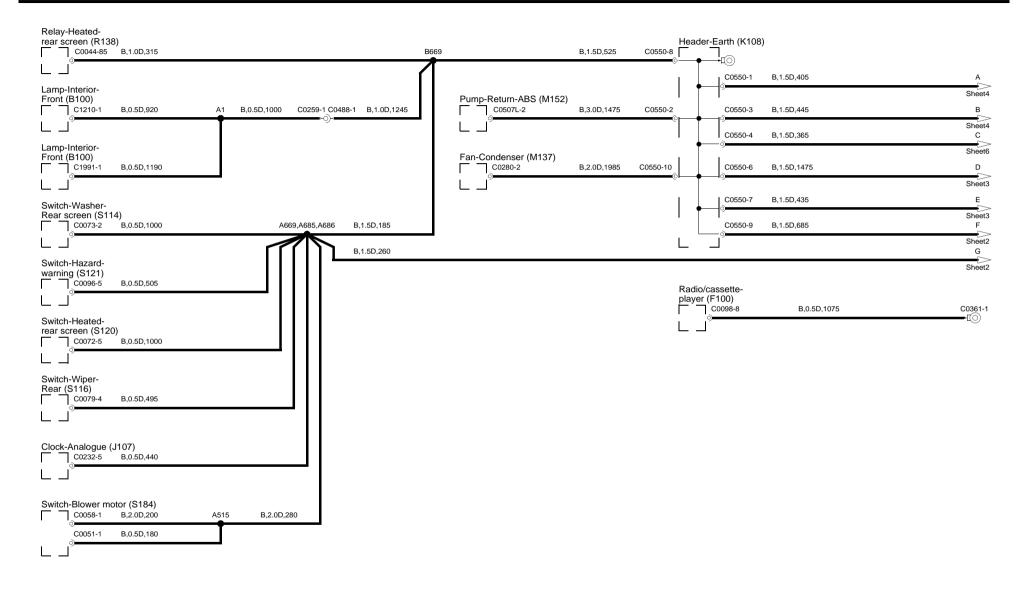


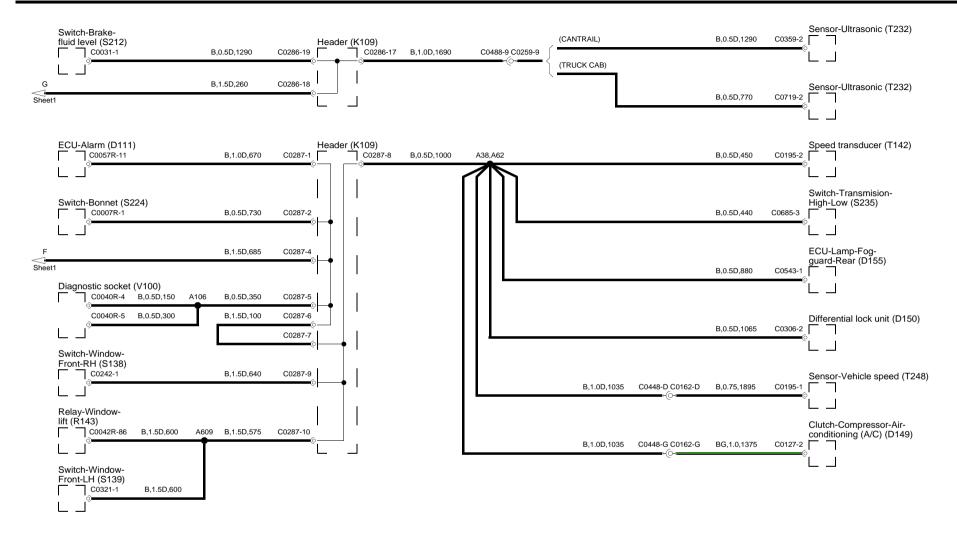


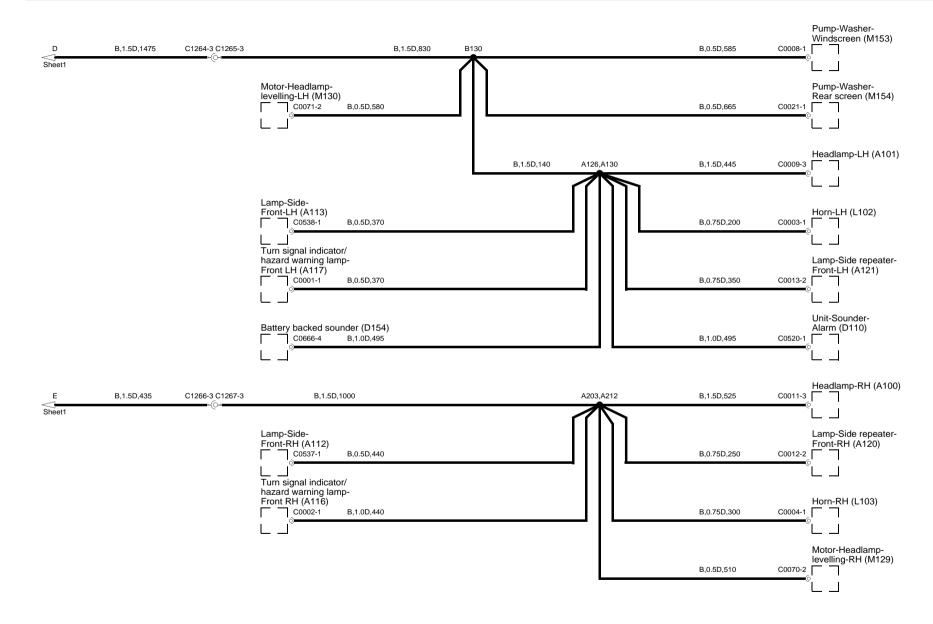


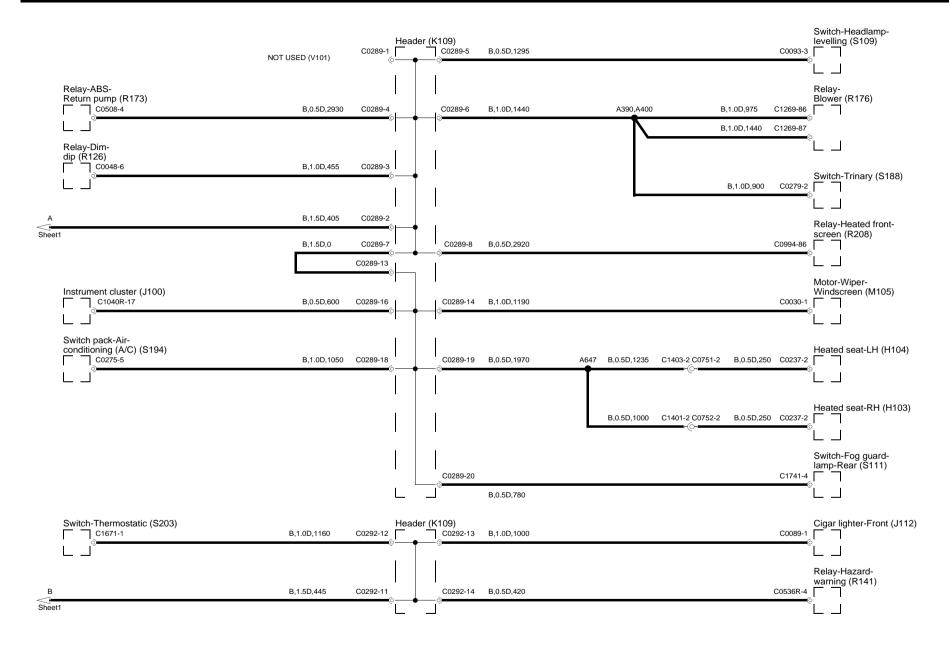


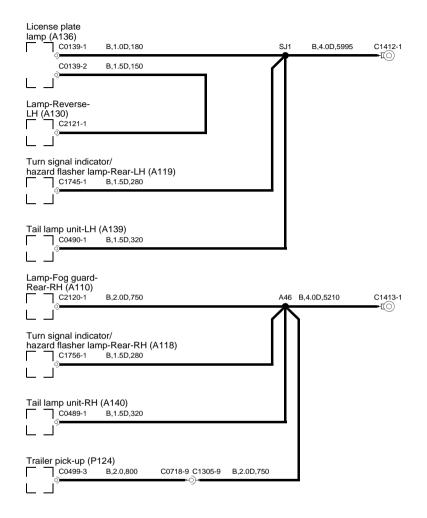


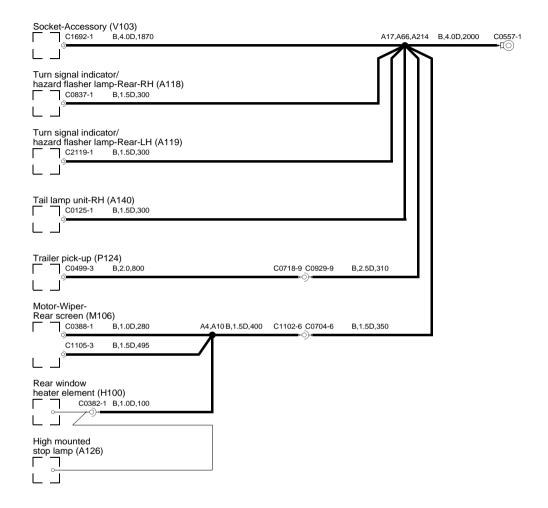


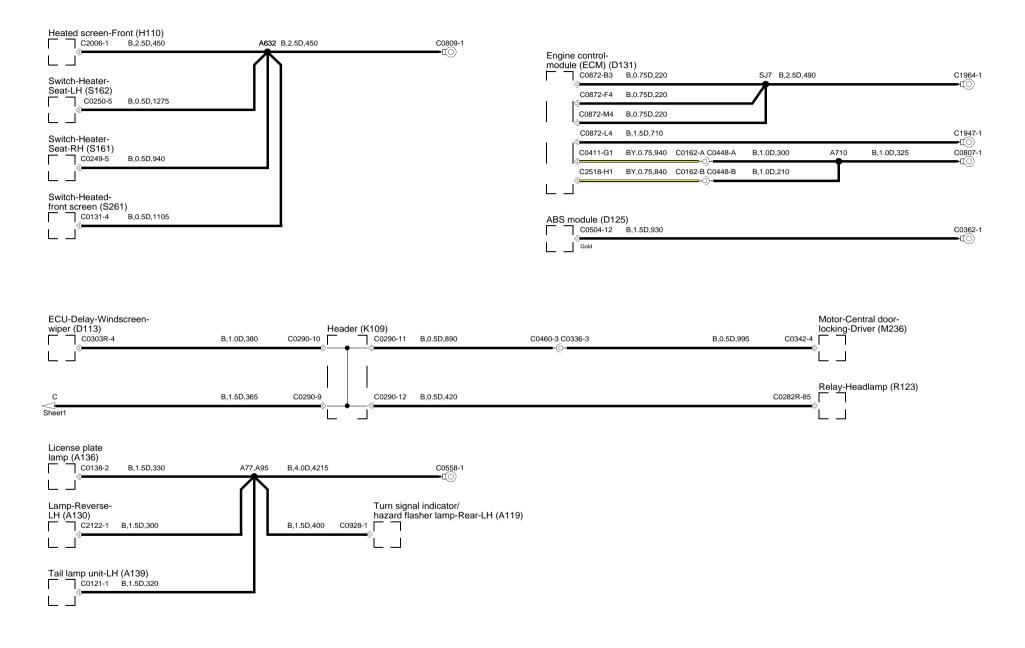


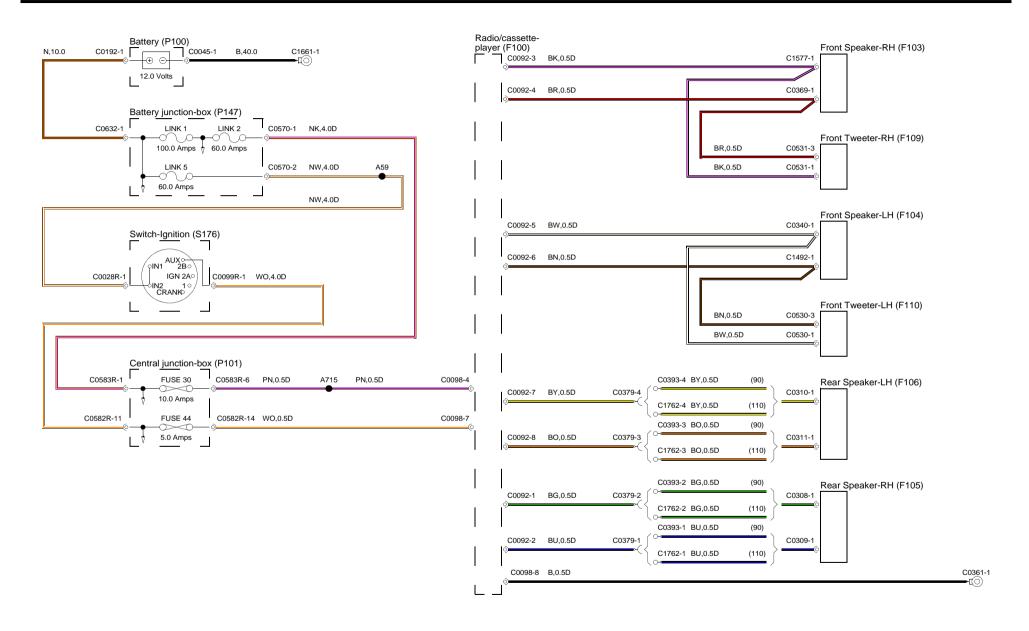






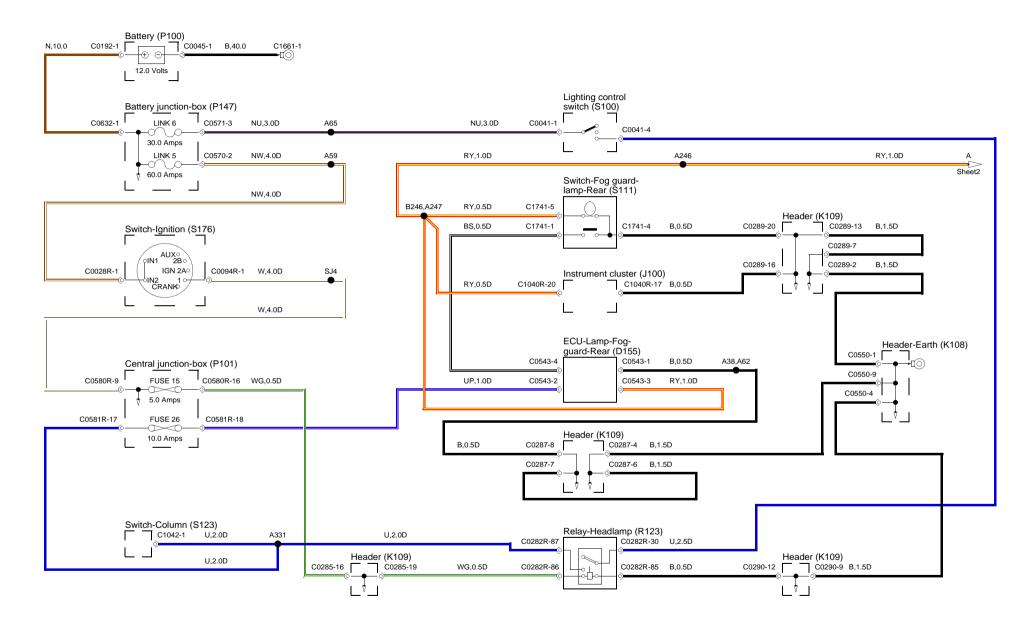






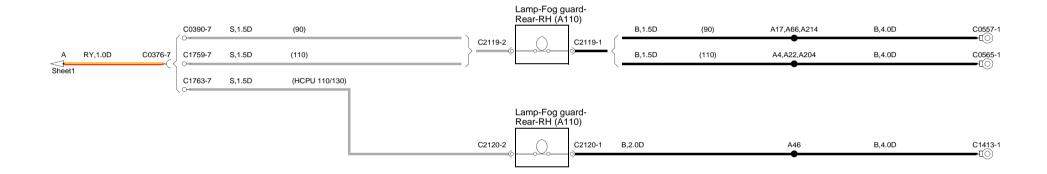
417-01 - EXTERIOR LIGHTING

Rear fog guard lamps

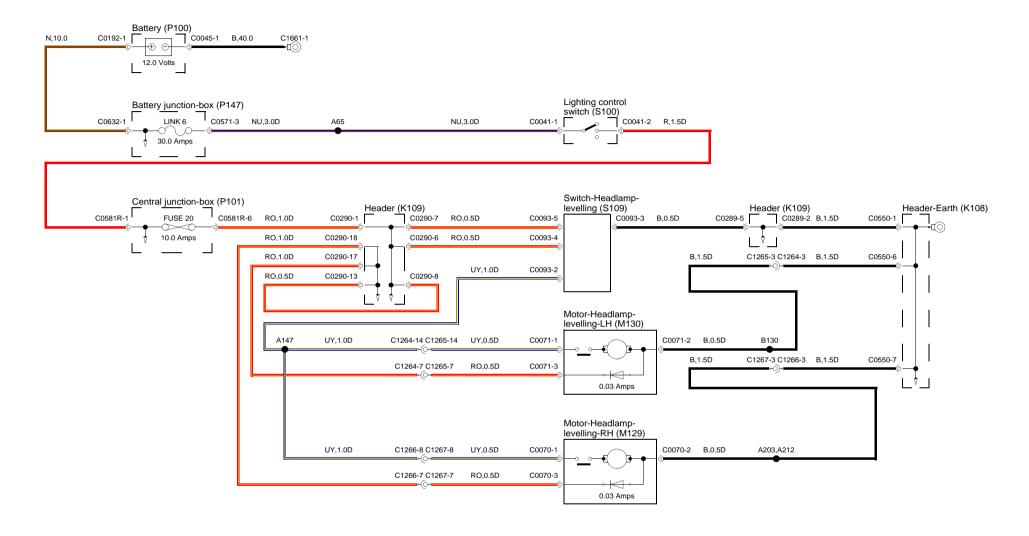


417-01 - EXTERIOR LIGHTING

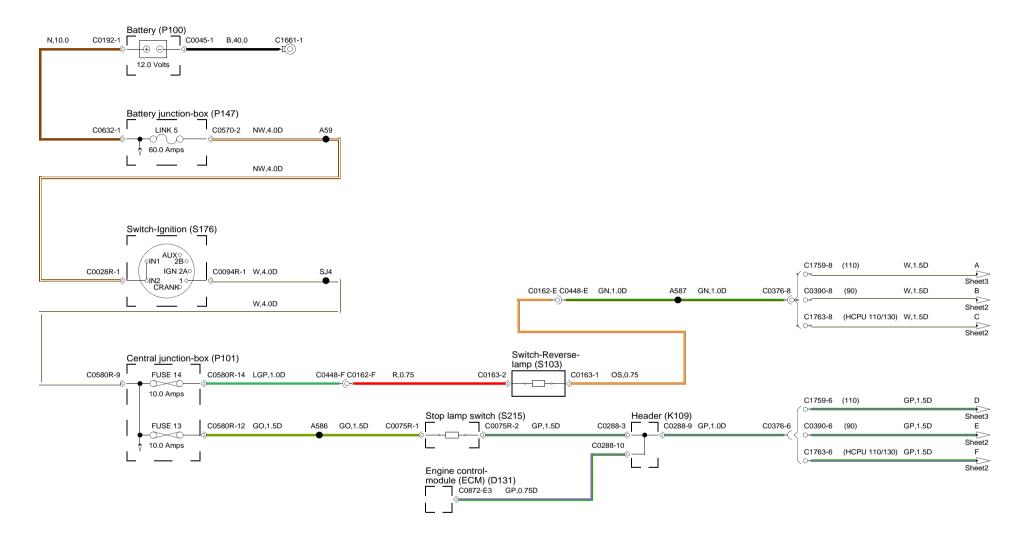
Rear fog guard lamps



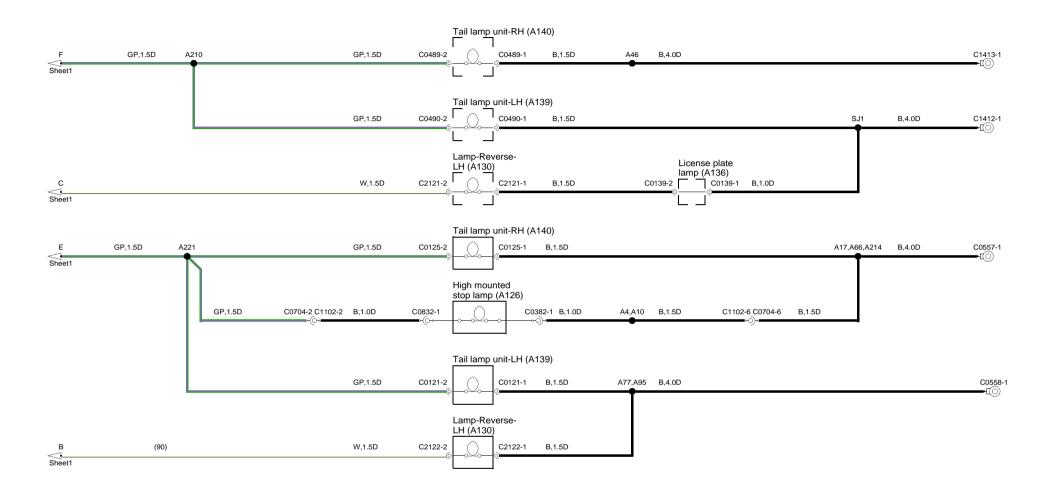
417-01 - EXTERIOR LIGHTING
Headlamp levelling



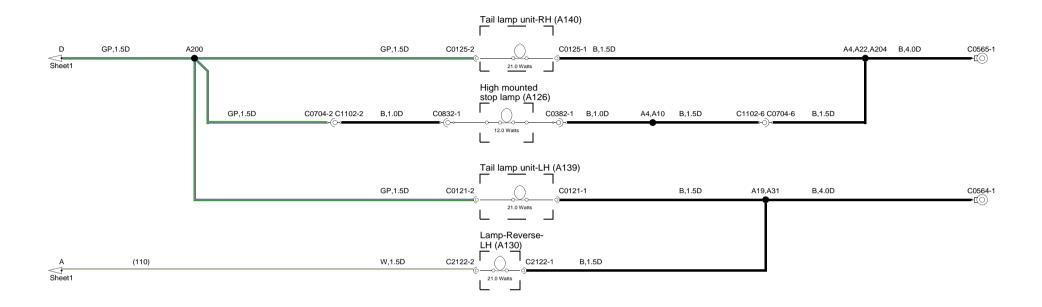
417-01 - EXTERIOR LIGHTING Stop and reverse lamps



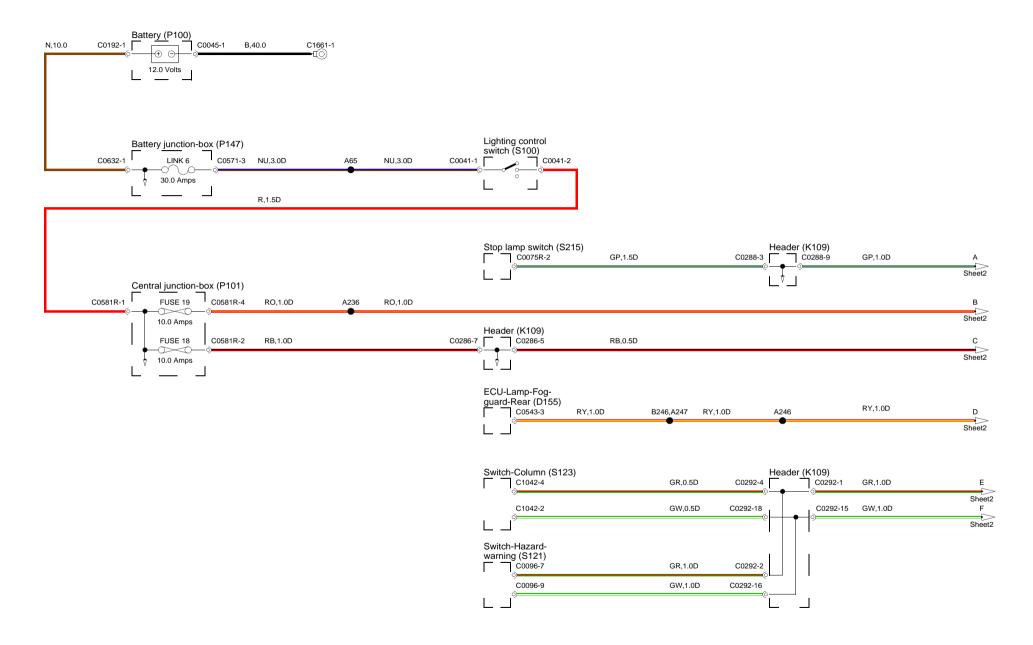
417-01 - EXTERIOR LIGHTING Stop and reverse lamps



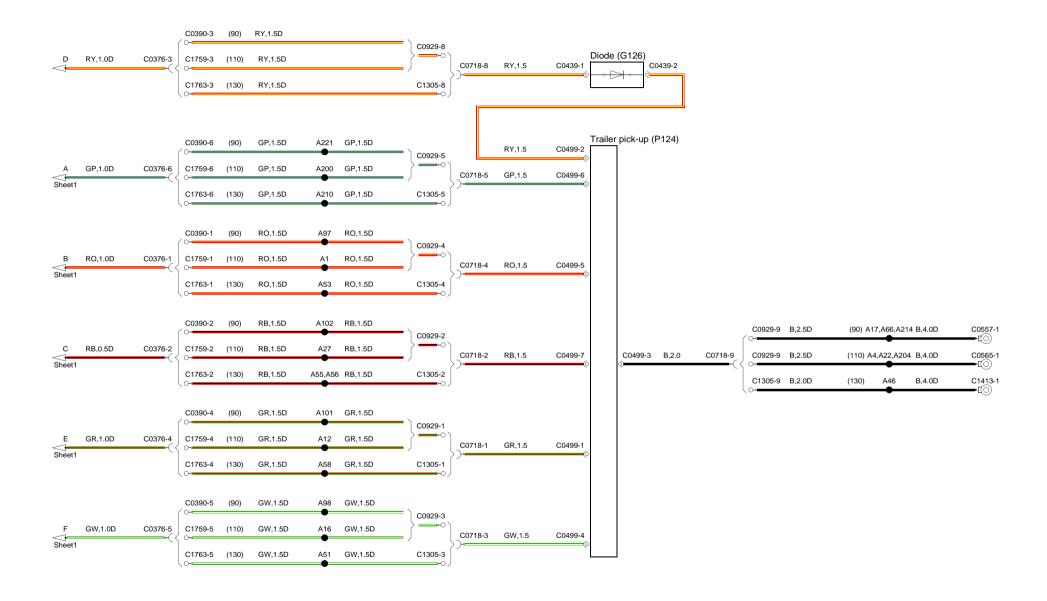
417-01 - EXTERIOR LIGHTING Stop and reverse lamps

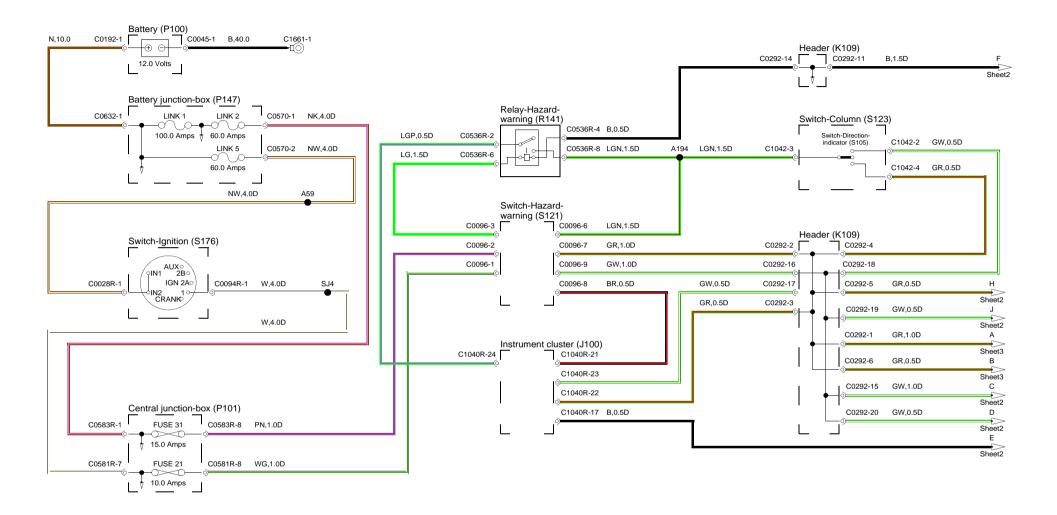


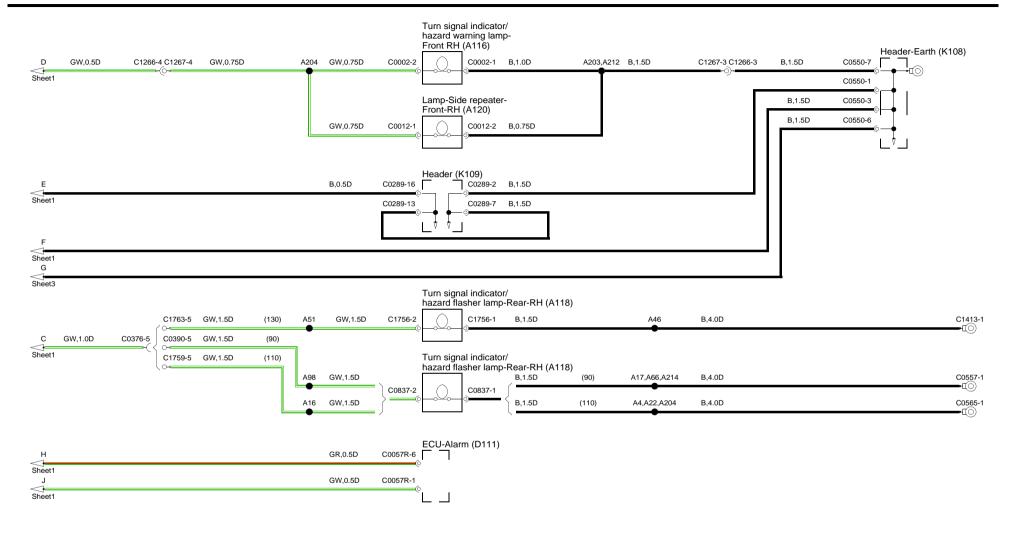
417-01 - EXTERIOR LIGHTING Trailer socket

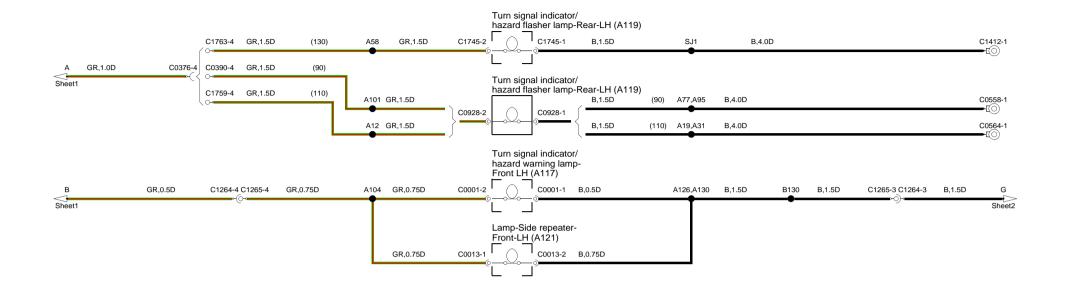


417-01 - EXTERIOR LIGHTING Trailer socket

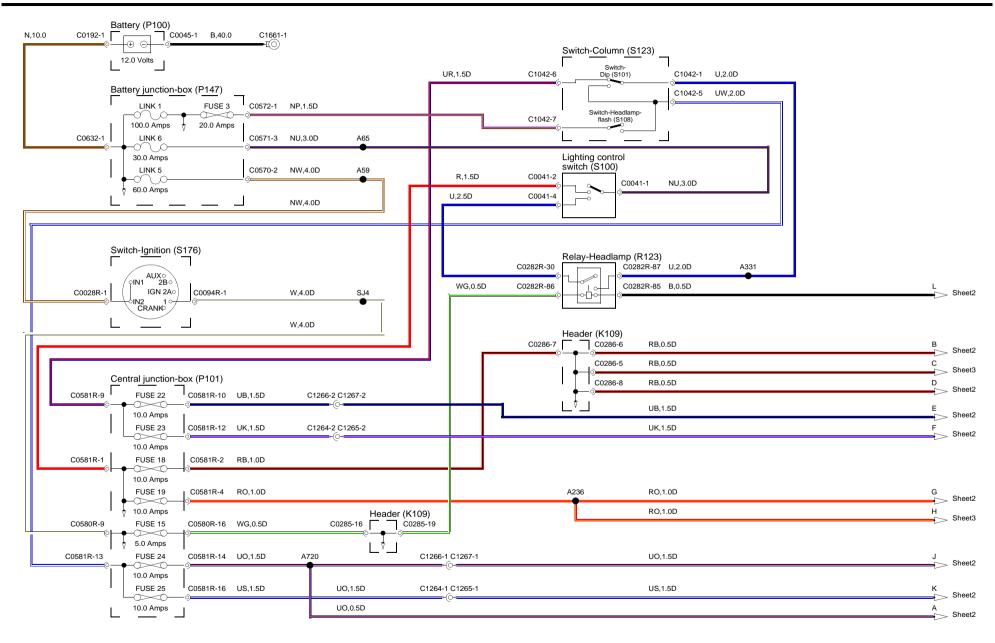




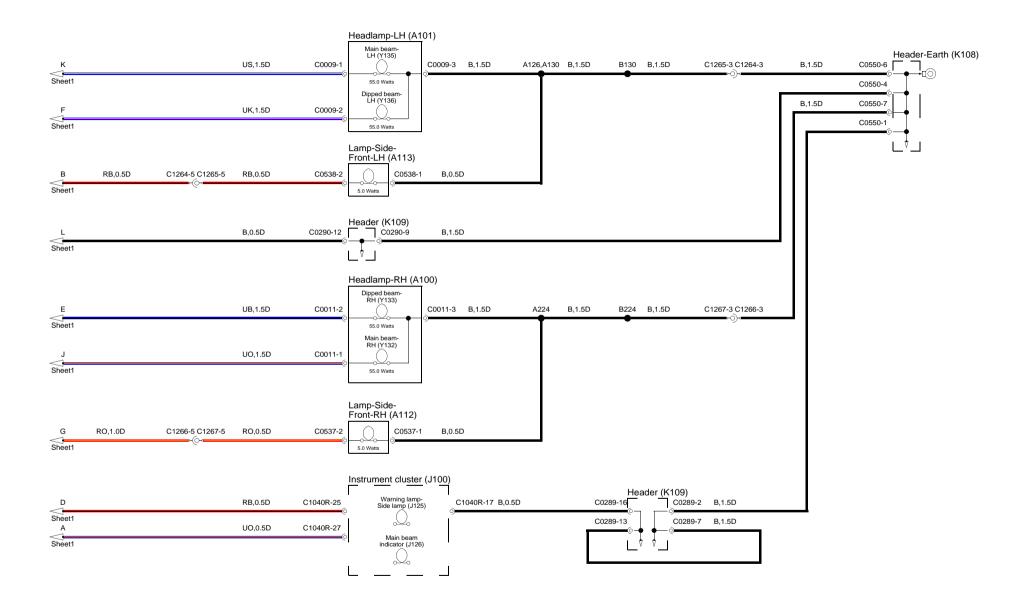




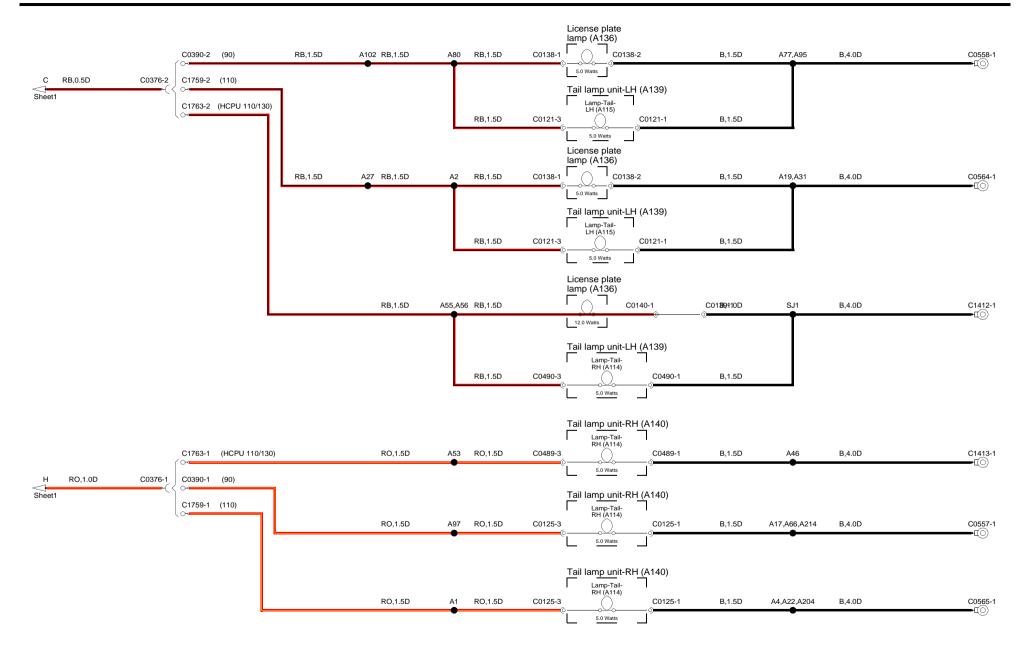
417-01 - EXTERIOR LIGHTING
Head/Side lamps



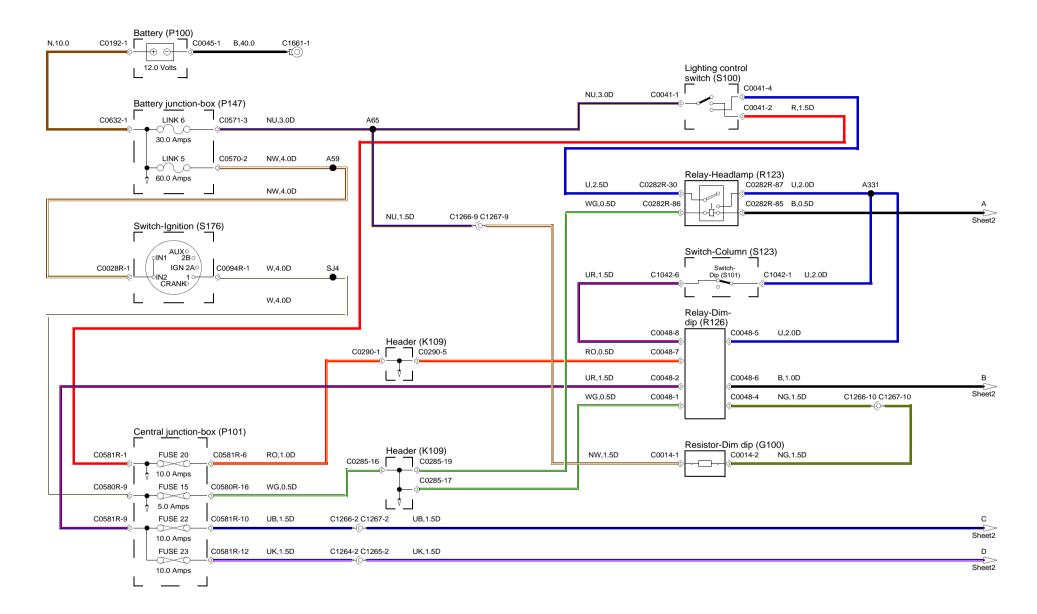
417-01 - EXTERIOR LIGHTING
Head/Side lamps



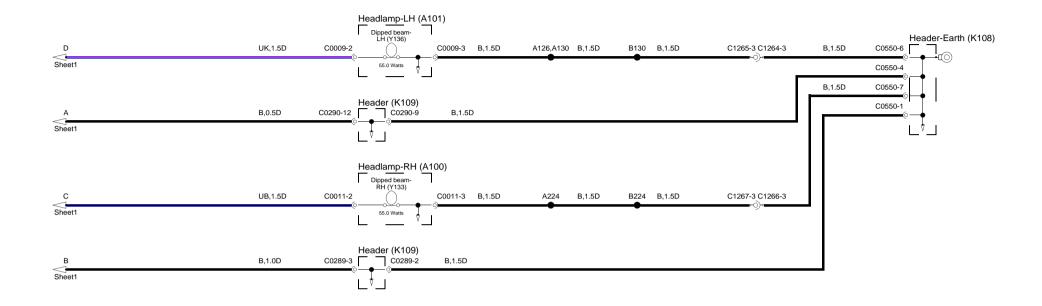
417-01 - EXTERIOR LIGHTING
Head/Side lamps

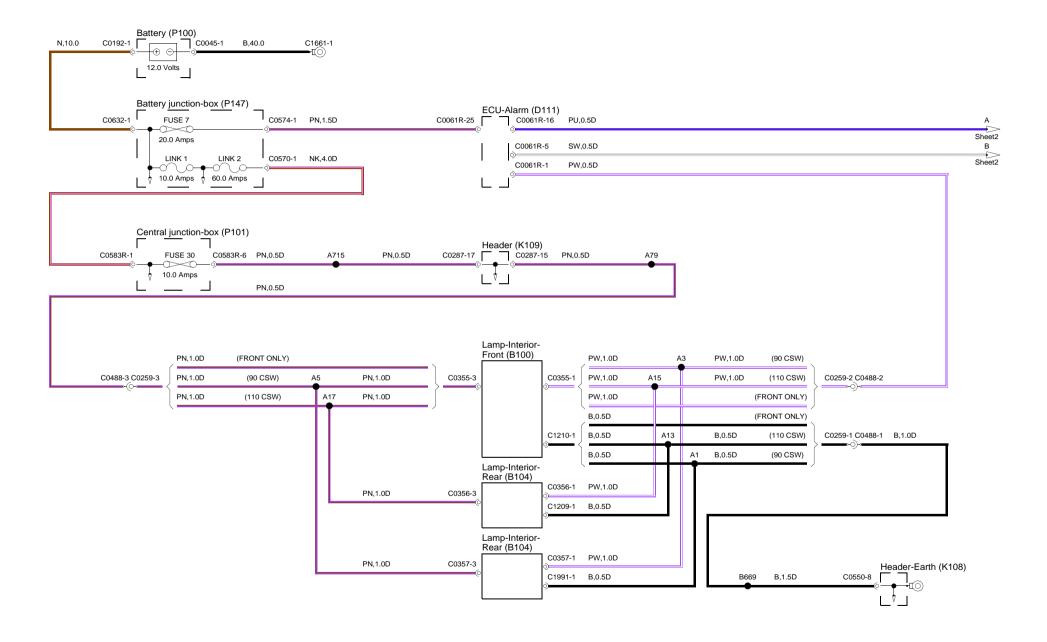


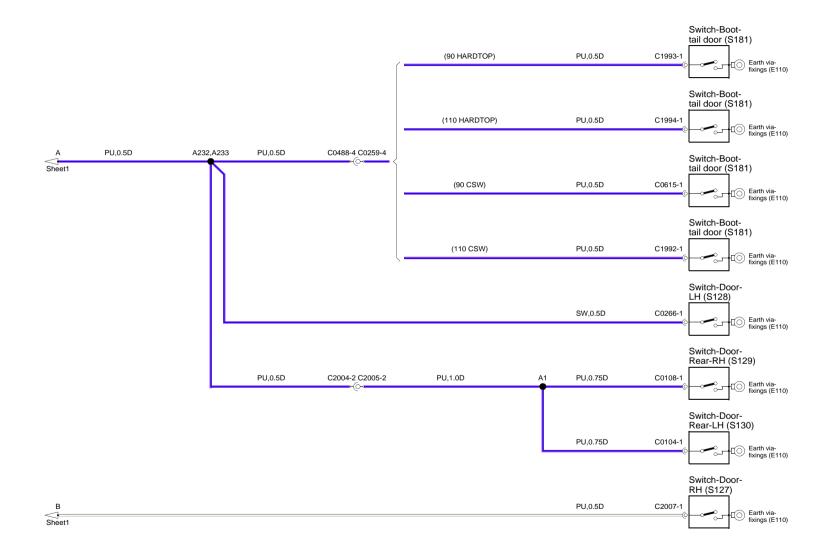
417-01 - EXTERIOR LIGHTING Dim dip

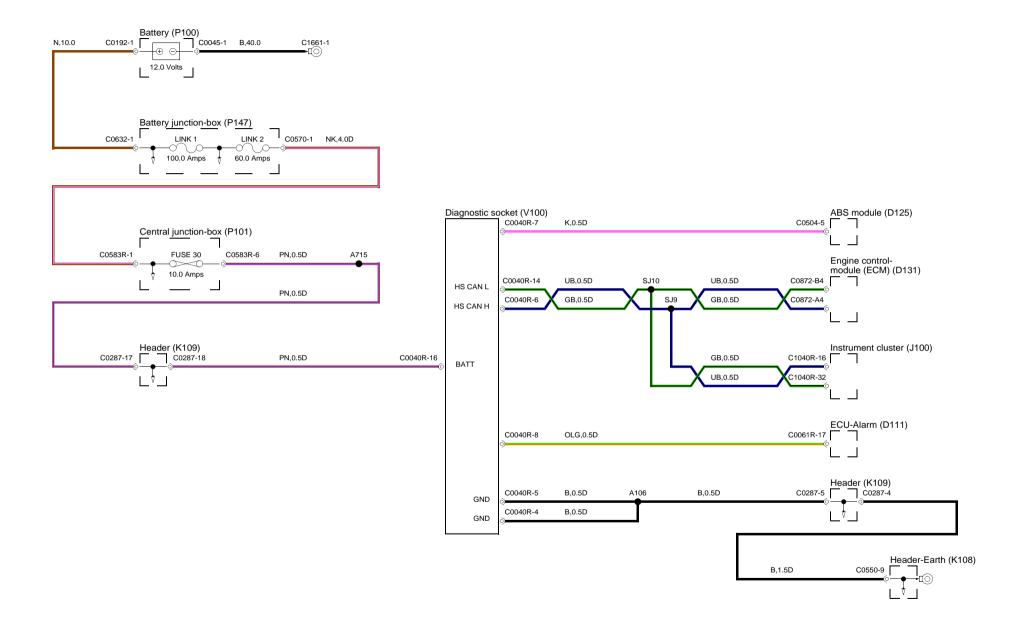


417-01 - EXTERIOR LIGHTING Dim dip

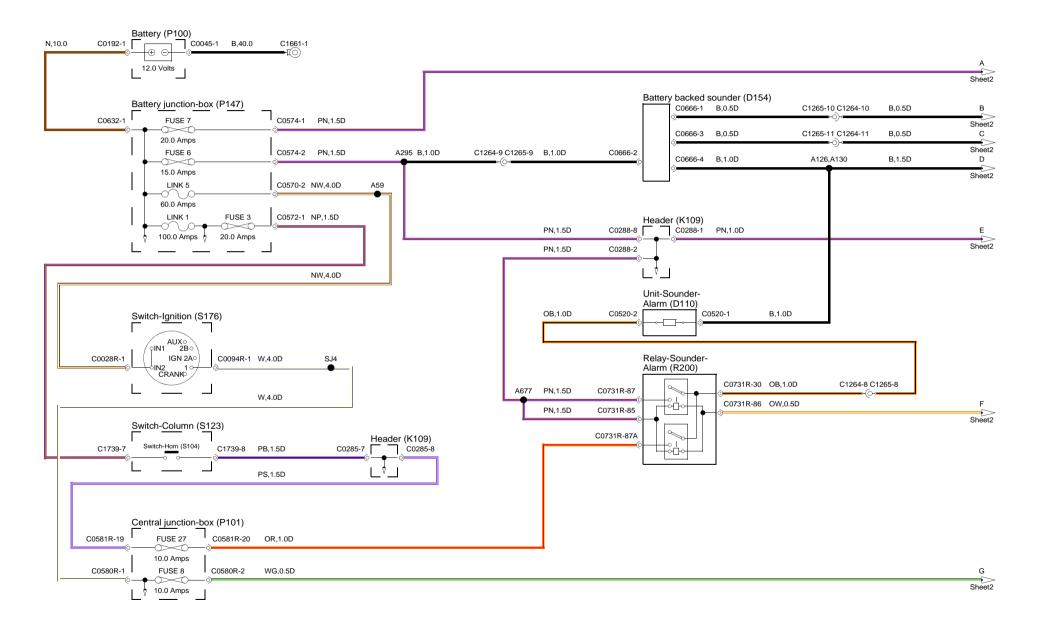




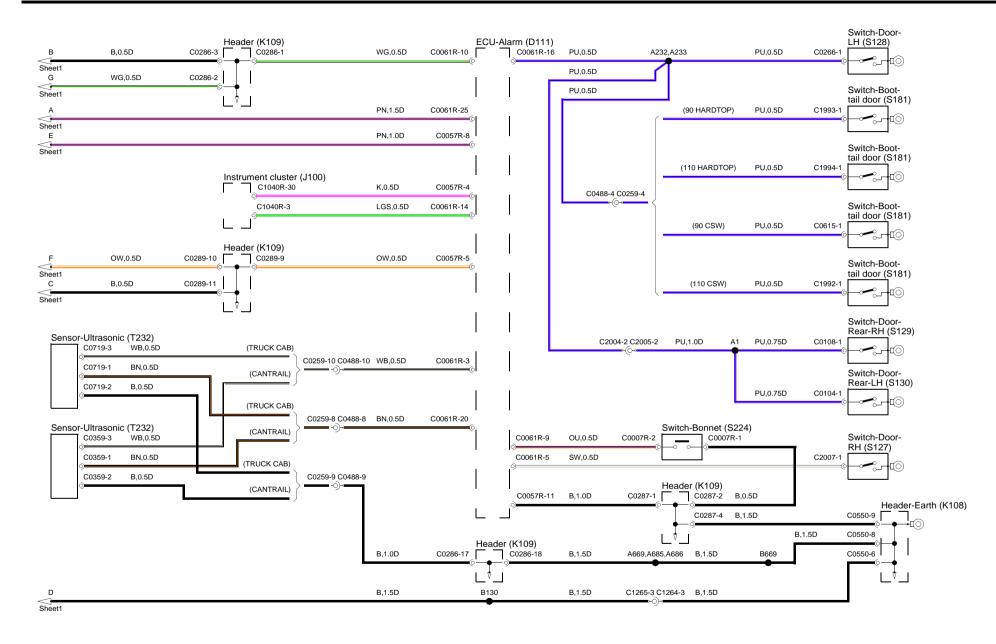




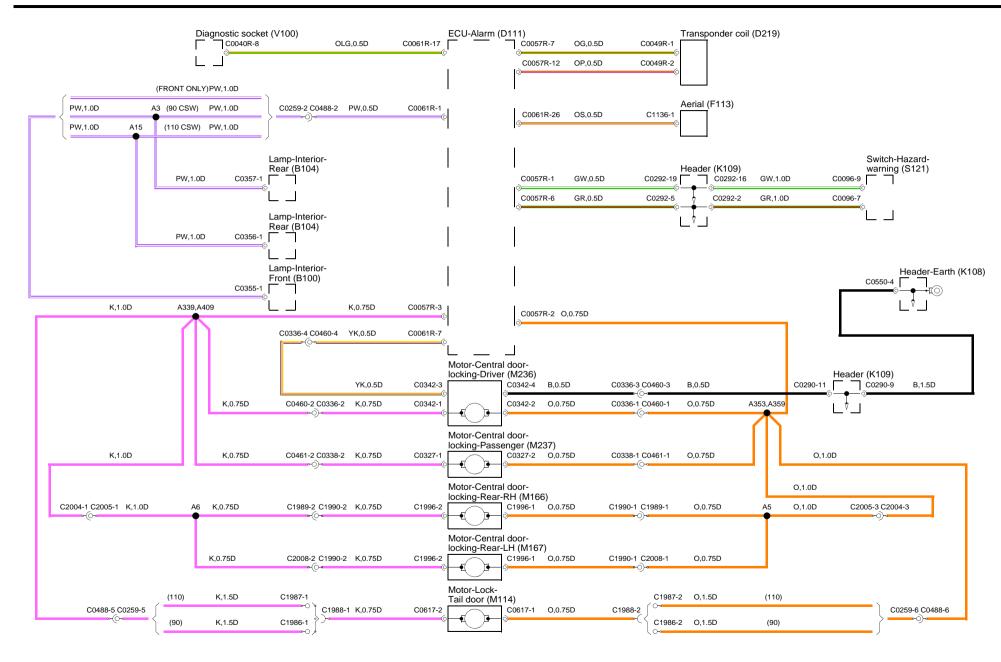
419-01 - ANTI-THEFT SYSTEM Active



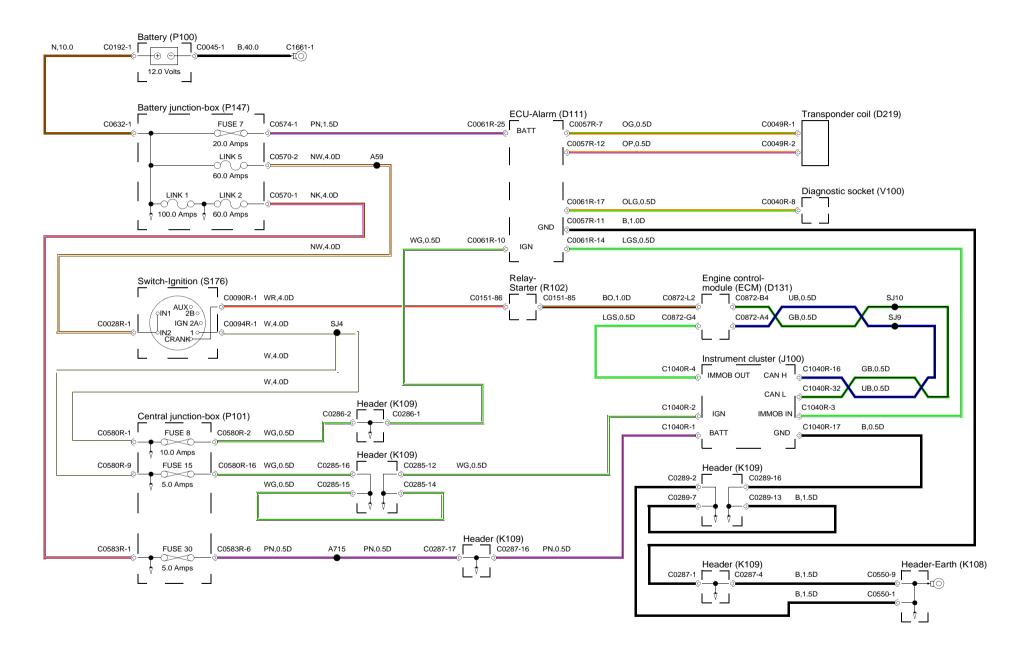
419-01 - ANTI-THEFT SYSTEM Active



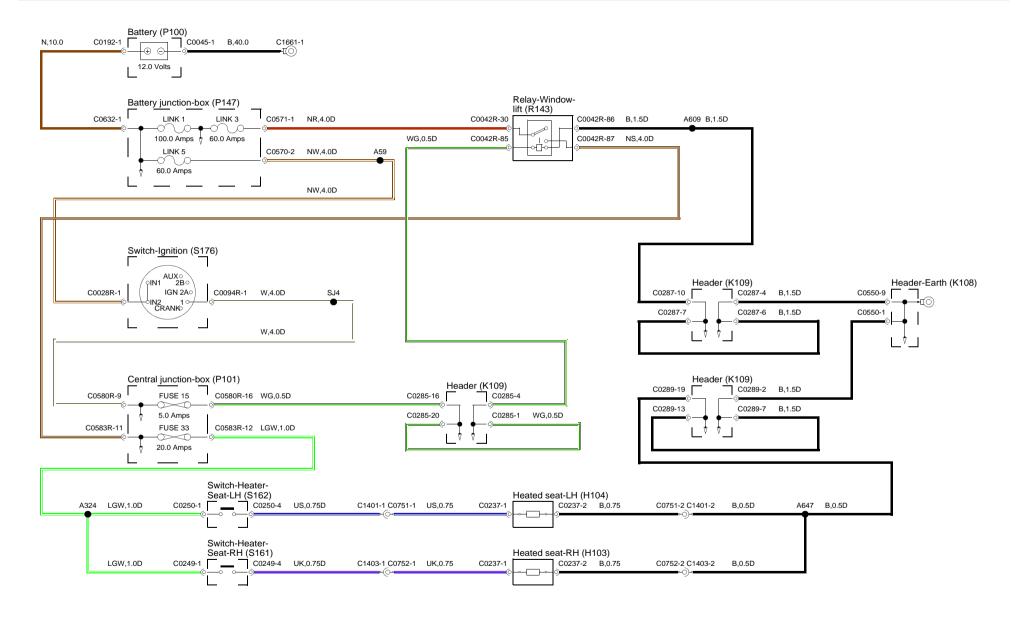
419-01 - ANTI-THEFT SYSTEM Active

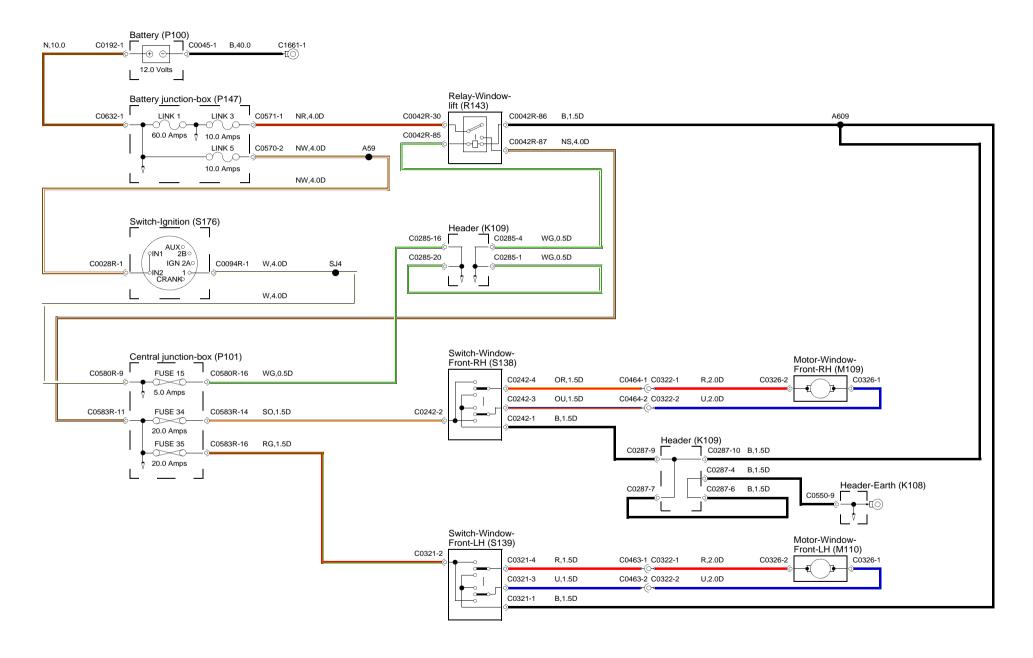


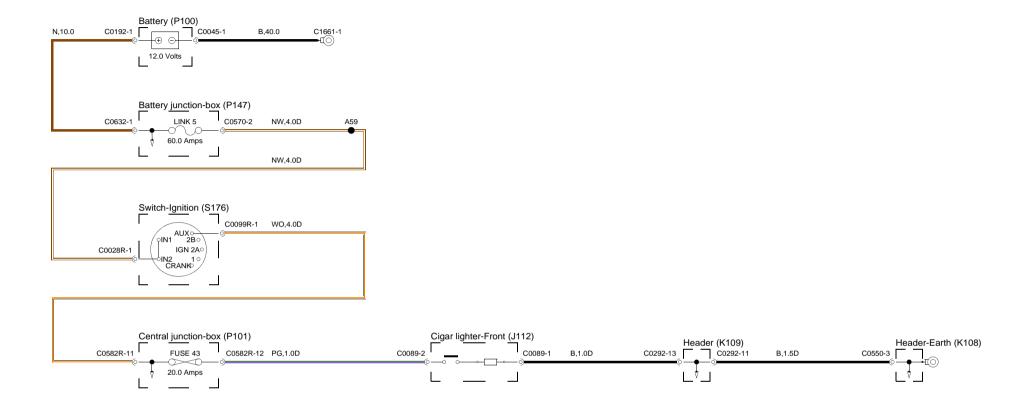
419-01 - ANTI-THEFT SYSTEM Passive

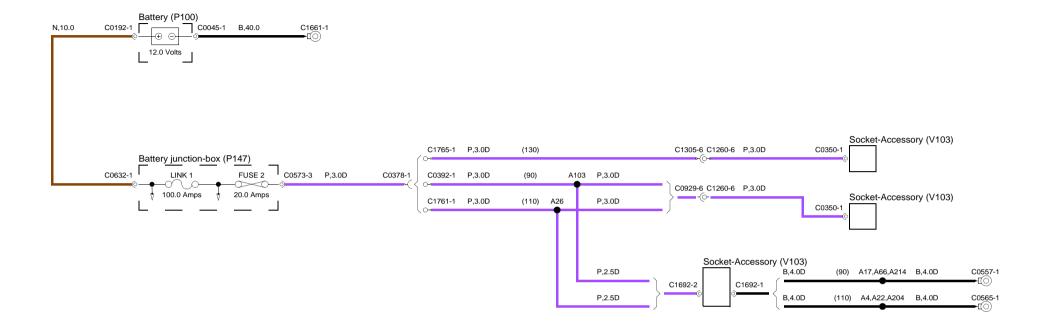


501-10 - SEATING Heated - front

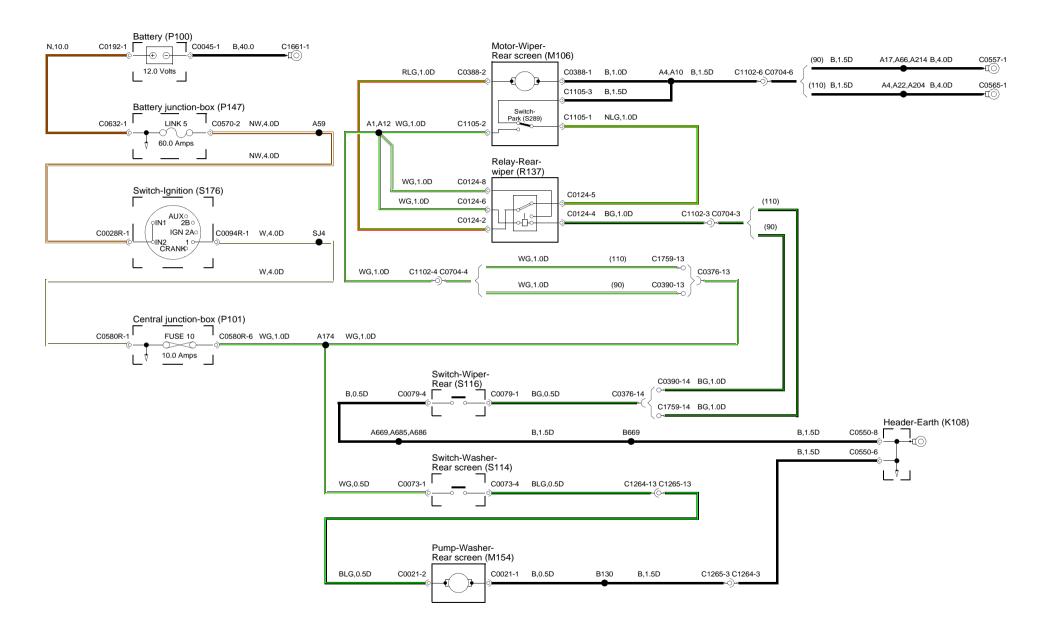








501-16 - WIPERS AND WASHERS Rear



501-16 - WIPERS AND WASHERS Front

