



Range Rover
Electrical Circuit Diagrams

VIN: 100000 - 180215

COLOUR CODES**DRAADKLEURCODES****CODICI COLORI DEI CAVI****CODES DES COULEURS DES FILS****CODIGOS DE COLORES DE LOS CABLES****KABELFARBCODES****CÓDIGOS DAS CORES DOS FIOS**

CODE	COLOUR	CODE	KLEUR	CODE	COULEUR	CODE	FARBE	CODICE	COLORE	CODIGO	COLOR	CÓDIGO	COR
B	BLACK	B	ZWART	B	NOIR	B	SCHWARZ	B	NERO	B	NEGRO	B	PRETO
G	GREEN	G	GROEN	G	VERT	G	GRÜN	G	VERDE	G	VERDE	G	VERDE
K	PINK	K	ROZE	K	ROSE	K	ROSA	K	ROSA	K	ROSA	K	ROSA
LG	LIGHT GREEN	LG	LICHTGROEN	LG	VERT CLAIR	LG	HELLGRÜN	LG	VERDE CHIARO	LG	VERDE CLARO	LG	VERDE CLARO
N	BROWN	N	BRUIN	N	BRUN	N	BRAUN	N	MARRONE	N	MARRON	N	CASTANHO
O	ORANGE	O	ORANJE	O	ORANGE	O	ORANGE	O	ARANCIONE	O	NARANJA	O	LARANJA
P	PURPLE	P	PAARS	P	VIOLET	P	LILA	P	PORPORA	P	PURPURA	P	ROXO
R	RED	R	ROOD	R	ROUGE	R	ROT	R	ROSSO	R	ROJO	R	VERMELHO
S	SLATE (grey)	S	LEIGRIJS	S	GRIS	S	GRAU	S	ARDESIA (grigio)	S	PIZARRO (gris)	S	CINZENTO
T	TRANSPARENT	T	TRANSPARANT	T	TRANSPARENT	T	TRANSPARENT	T	TRASPIRENTE	T	TRANSPARENTE	T	TRANSPARENTE
U	BLUE	U	BLAUW	U	BLEU	U	BLAU	U	BLU	U	AZUL	U	AZUL
W	WHITE	W	WIT	W	BLANC	W	WEISS	W	BIANCO	W	BLANCO	W	BRANCO
Y	YELLOW	Y	GEEL	Y	JAUNE	Y	GELB	Y	GIALLO	Y	AMARILLO	Y	AMARELO

CONTENTS

1 POWER DISTRIBUTION	8
Engine Compartment Fuse Box - Td6	8
Engine Compartment Fuse Box - V8	10
Passenger Compartment Fuse Box	12
Rear Fuse Box	18
2 EARTH DISTRIBUTION	20
3 ANTI-THEFT ALARM	30
3 ENGINE IMMOBILISATION	32
Td6	32
V8	34
4 CENTRAL DOOR LOCKING	36
5 WINDOWS	38
Front	38
Rear	40
6 SUNROOF	42
7 DOOR MIRRORS	44
Memory	46
Folding	48
7 INTERIOR MIRROR	50
8 SEATS	52
Front	52
Memory	54
Memory - Contour	56
Lumbar Support - Electric	58
Lumbar Support - Manual	60
Heated - Front	62
Heated - Rear	64
9 STEERING WHEEL	66
Adjustable	66
Adjustable - Memory	68
Heated	70
9 STEERING	72
10 DIAGNOSTIC SOCKET	74
11 BODY CONTROL UNIT	76
15 CHARGING AND STARTING	80
Td6	80
V8	82
20 ENGINE MANAGEMENT SYSTEM	84
Td6	84
V8	88
20 FUEL PUMP	94
20 SECONDARY AIR INJECTION	96
22 COOLING FANS	98
Fuel System - Td6	100
31 CRUISE CONTROL	102
32 ELECTRONIC AUTOMATIC TRANSMISSION	104
GM5	104
ZF	106
34 AIR SUSPENSION	108
35 ANTI-LOCK BRAKING SYSTEM (ABS)	110
36 SUPPLEMENTARY RESTRAINT SYSTEM (SRS)	112
38 AIR TEMPERATURE CONTROL (ATC)	114
Low-Line	114
High Line	116
Rear	118
39 FUEL BURNING HEATER	120
Td6	120
V8	122
40 HEATED FRONT SCREEN	124
40 HEATED REAR SCREEN	126
42 WIPERS AND WASHERS	128
Front	128
Rear	130
Heated	132
Headlamps	134
43 EXTERIOR LAMPS	136
Head, side and tail lamps	136
Head, side and tail lamps - Xenon	138
Headlamp levelling - Automatic	140
Direction indicator lamps\hazard warning	142
Brake and reverse lamps	144
Fog lamps - Front	146
Fog lamps - Rear	148
44 INTERIOR LAMPS	150
46 INTERIOR ILLUMINATION	154

CONTENTS

47 INSTRUMENTS	160	55 NAVIGATION SYSTEMS	188	73 TYRE PRESSURE MONITORING	226
47 ROTARY COUPLER	164	Europe	188	75 PARK DISTANCE CONTROL (PDC)	228
48 CLOCK	166	57 TELEVISION	190	76 TELECOMMUNICATION SYSTEMS	230
48 HORN (S)	168	Amplifier	192	Europe	230
49 ACCESSORY SOCKET	170	Digital Signal Processor	194	Voice Recognition	232
49 CIGAR LIGHTER	172	57 VIDEO MODULE	196	80 TRAILER SOCKET	234
Australia	174	60 HEADER JOINTS	198		
50 AUDIO SYSTEMS	176	65 SPLICES AND CENTRE TAPS	202		
Amplifier	178	70 COMMUNICATION DATA BUSES	222		
Digital Signal Processor	180	CAN Bus	222		
Logic 7	182	K Bus, I Bus	224		
CD Player	186				

CONTENTS

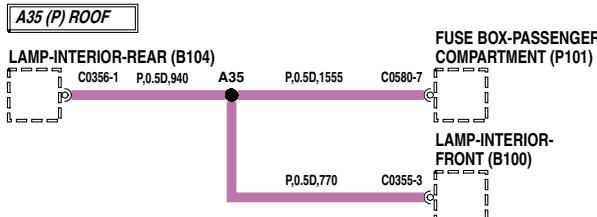
HOW TO USE THE CIRCUIT DIAGRAMS

All of the information in this publication is intended for use in conjunction with the Electrical Library, which can be found on RAVE.

The circuit diagrams are presented with Power and Earth distribution first, followed by individual circuits for each electrical system on the vehicle.

Power Distribution

The Power Distribution diagram shows the connections from the battery to the engine, passenger, and where applicable, rear fuse box. It also shows the internal circuitry of the fuse boxes.



M86 5963

The fuse box details are followed by independent functionally specific circuits and then a splices and centre taps section outlining the way in which internal harness splices and centre taps 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.

Earth Distribution

The earth distribution section comprises a number of Headers and Splices circuits. 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.

Splices and centre taps

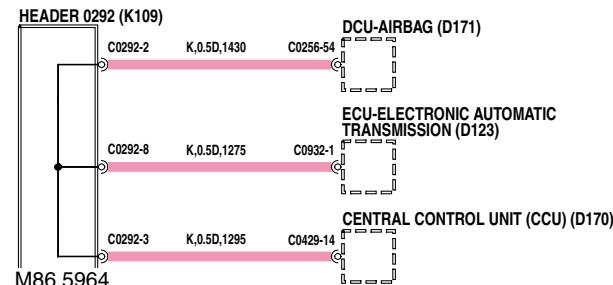
Header and splice tables present the joint(s) and wiring up to the first component. Splices are identified by a number with an alphabetical prefix and the wire colour.

The splice information shown on individual system circuits is not complete. Always refer to the splices circuit for complete information on each splice.

Wire length (Power & Earth Distribution only)

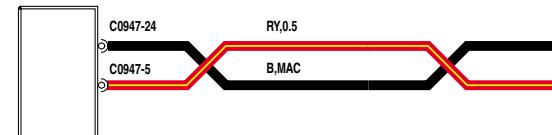
The length of the wire is shown in millimetres. This can be used to locate internal harness splices; look for the shortest wire between the joint and connector. For example, it can be seen that C0580-7 is 1555mm from joint A35.

Connectors



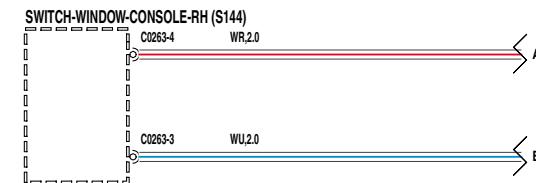
Header joints are identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C0292-1 identifies connector 292, pin number 1. Wire insulation colour is identified in the normal way. Where wires have a predominant colour with a secondary colour tracer, the main colour is identified first, i.e. LGS - Light Green with a Slate tracer.

Line Types



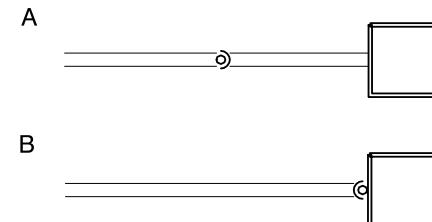
M86 5967

This denotes the wires are a twisted pair.



M86 5968

These page break symbols indicate the circuit continues on later pages.



86M4230A

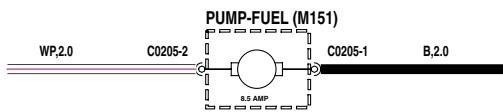
The cup and ball symbol indicates the male and female halves of connector.

A. Plug on lead (Flylead) wired directly to the component.

B. Connector plugs directly into component.

HOW TO USE THE CIRCUIT DIAGRAMS

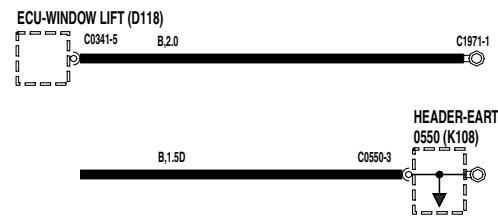
Components



M86 5965

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

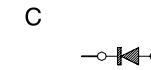
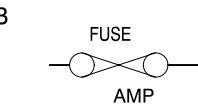
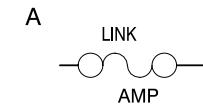
Earth points



M86 5966

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

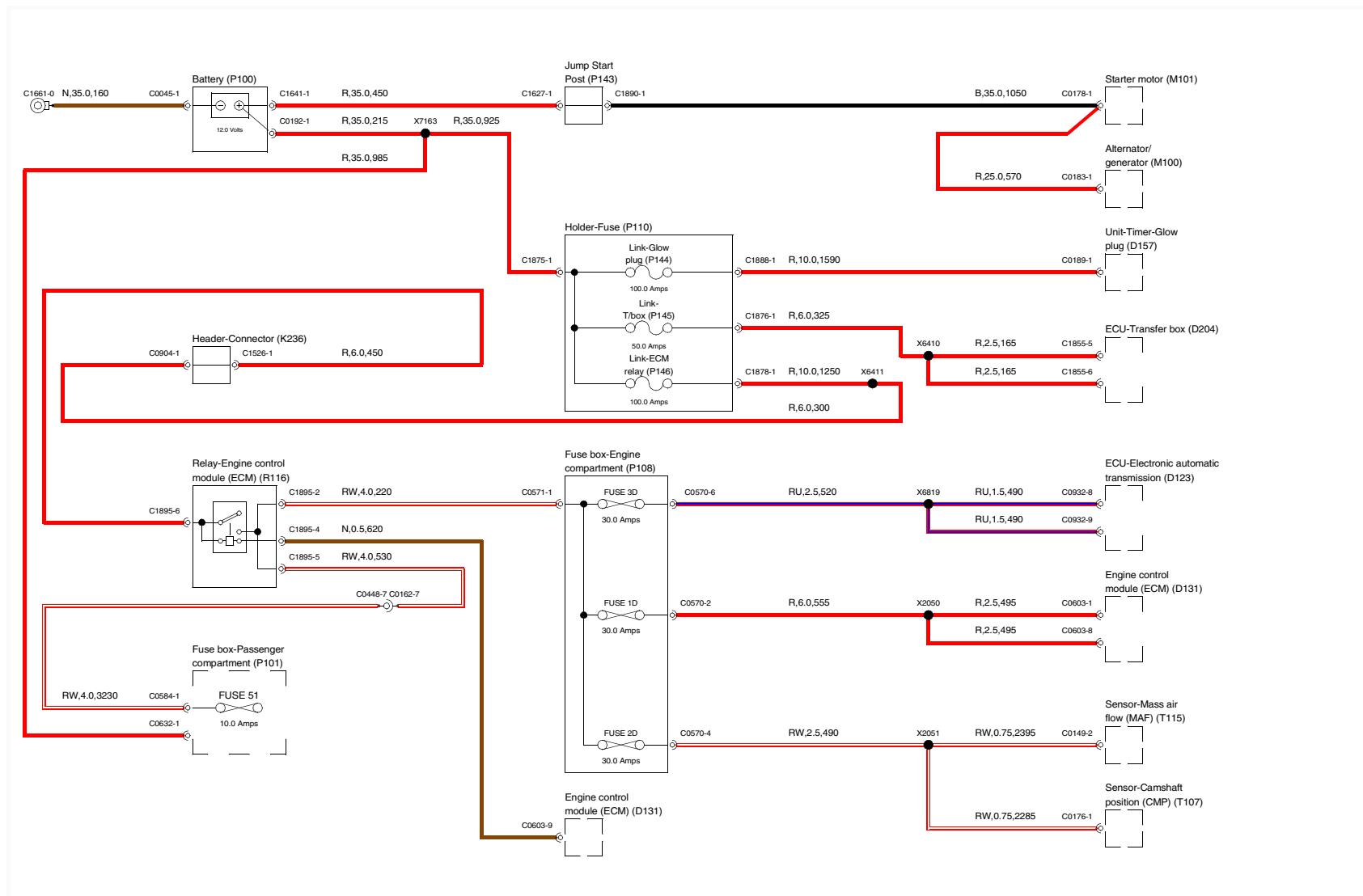


Fusible links (A) and current rated fuses (B) are identified as shown.

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.

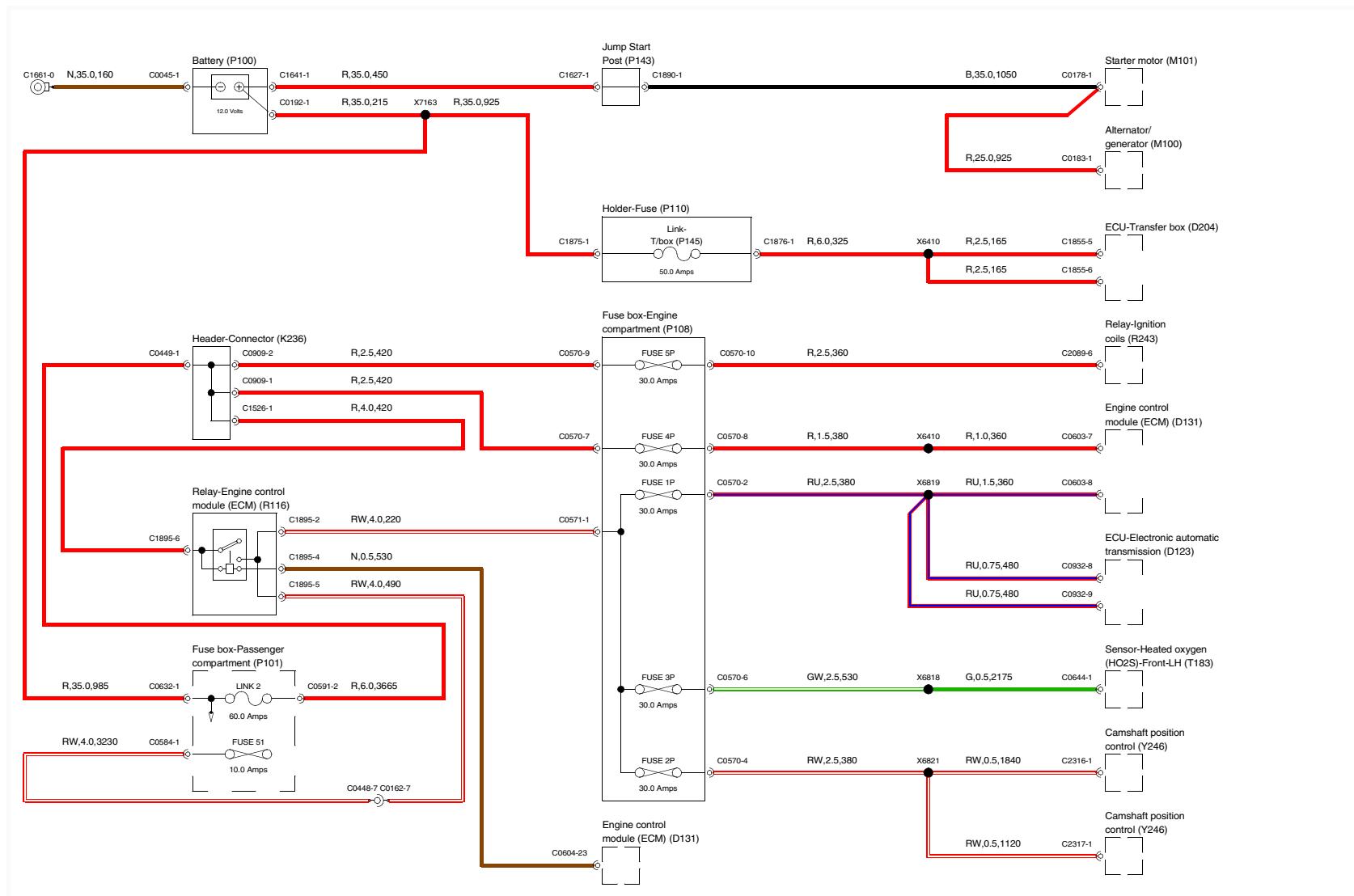
1 POWER DISTRIBUTION

Engine Compartment Fuse Box - Td6



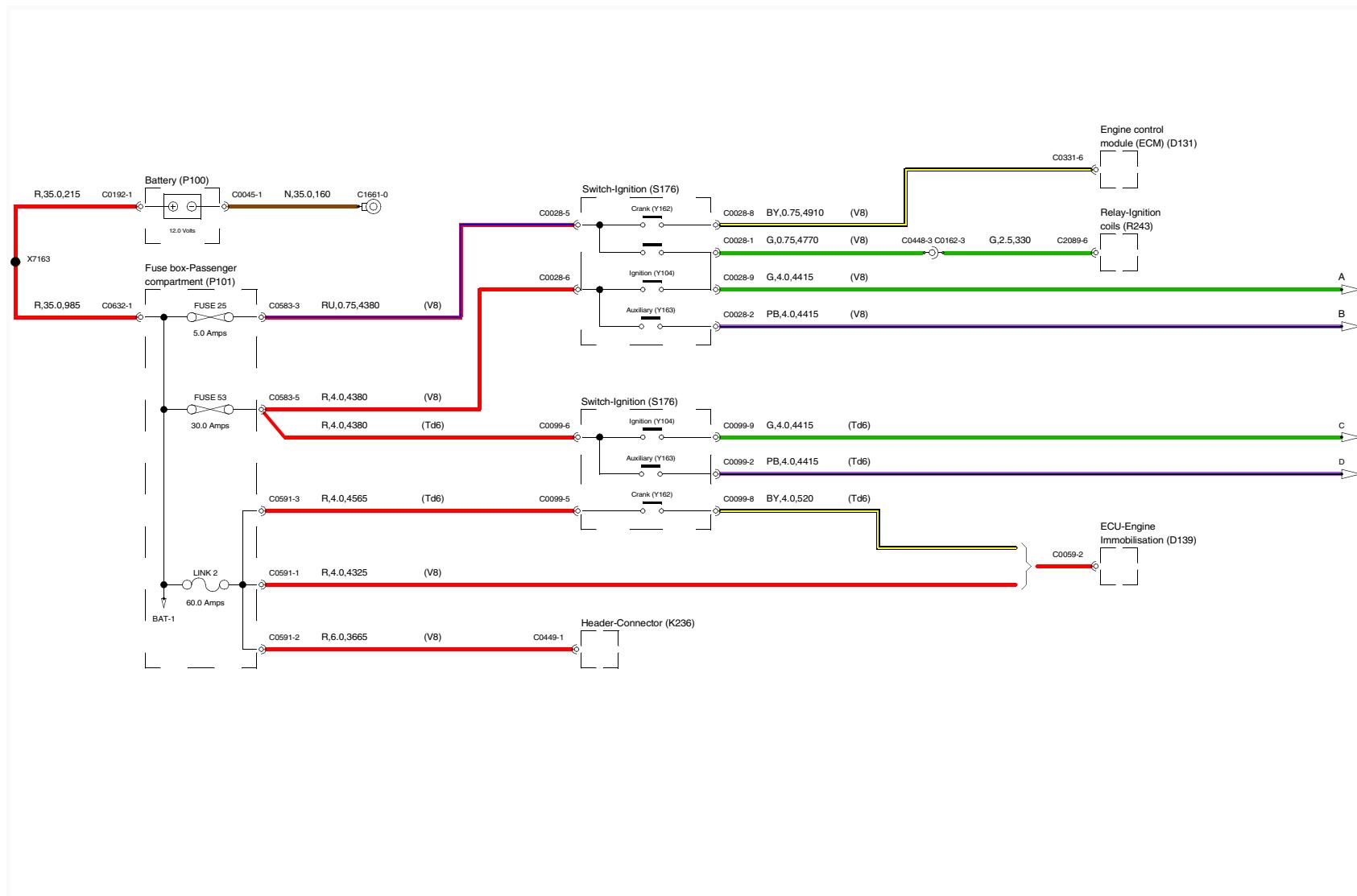
1 POWER DISTRIBUTION

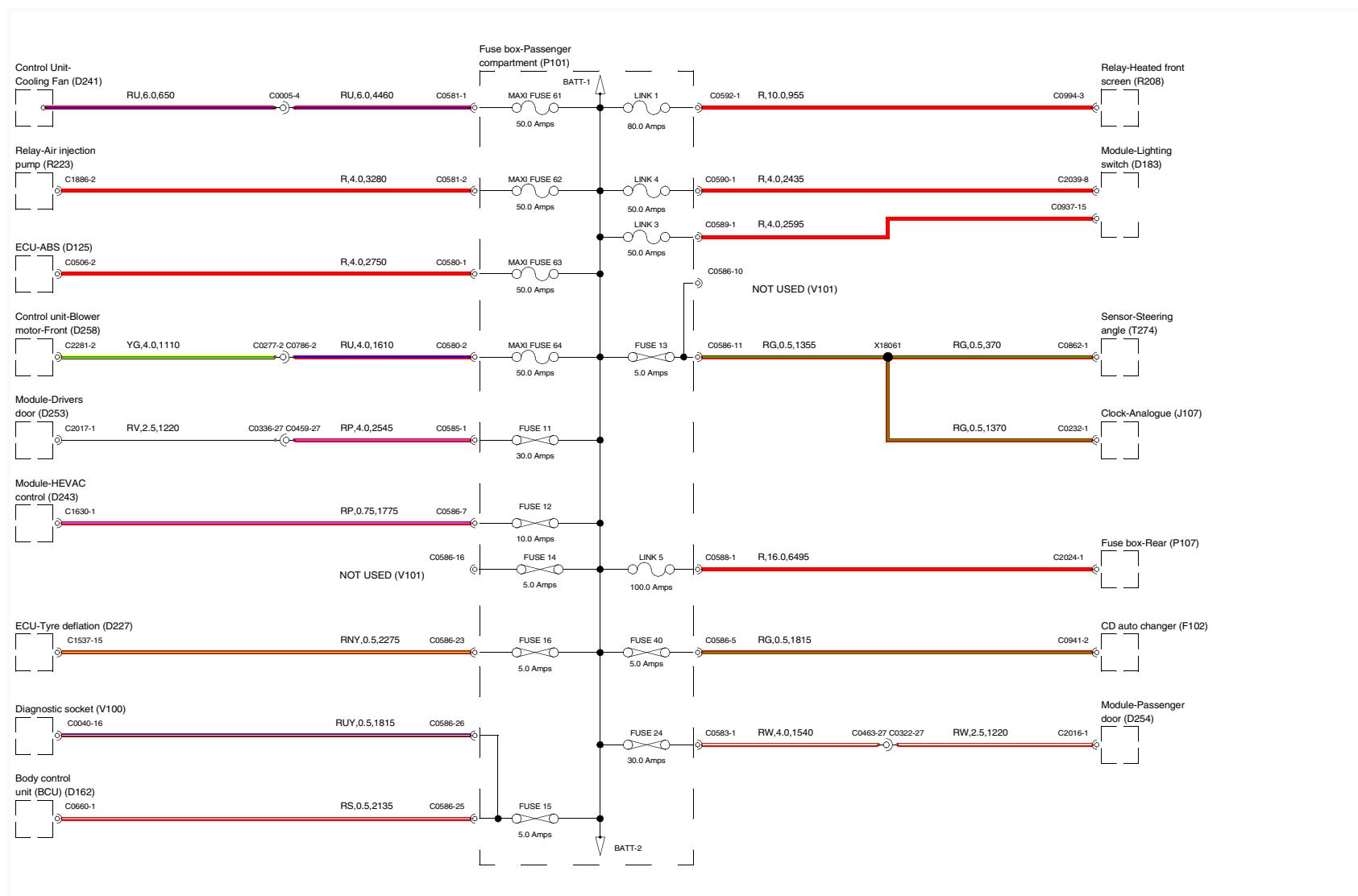
Engine Compartment Fuse Box - V8



1 POWER DISTRIBUTION

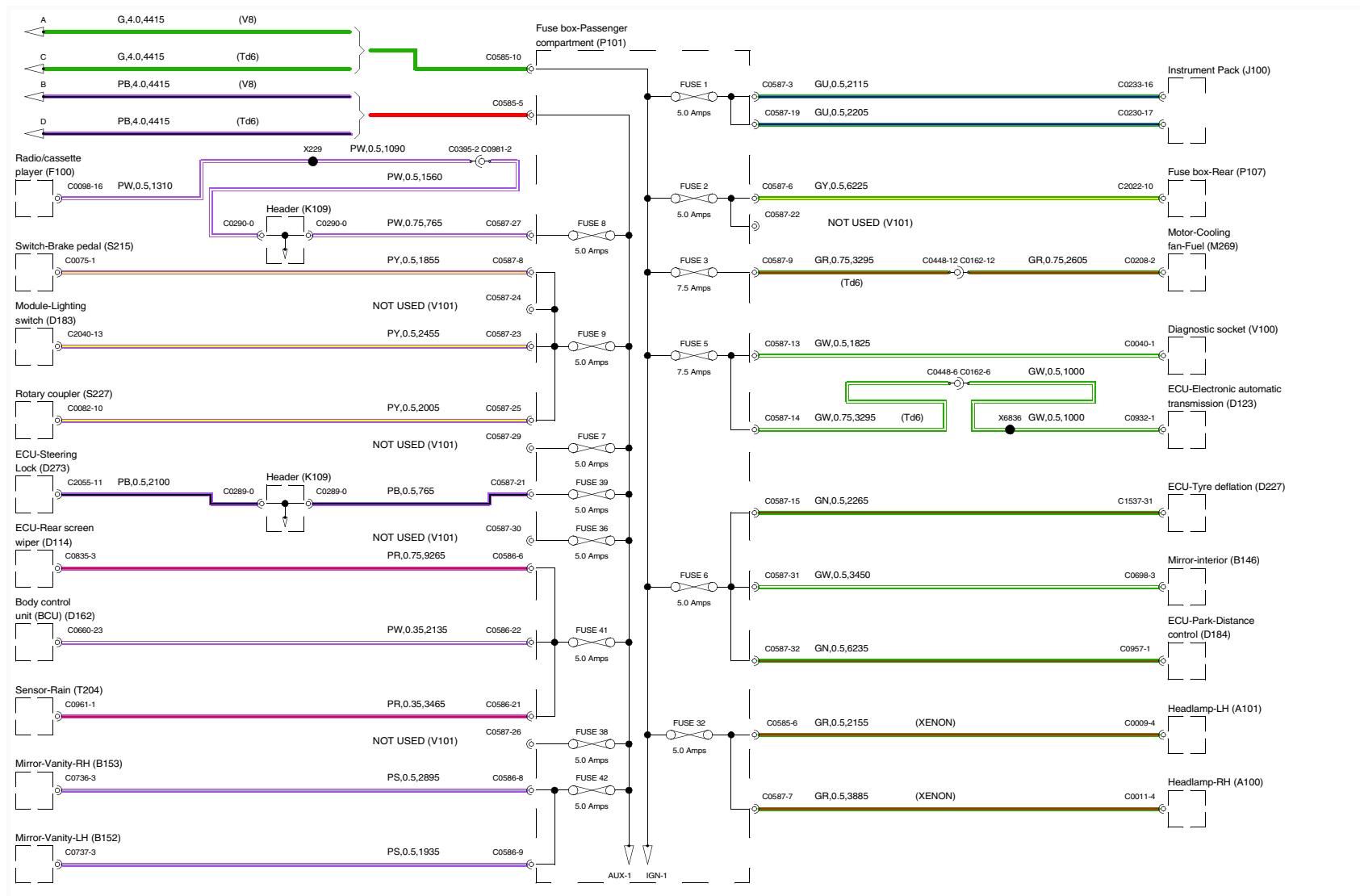
Passenger Compartment Fuse Box

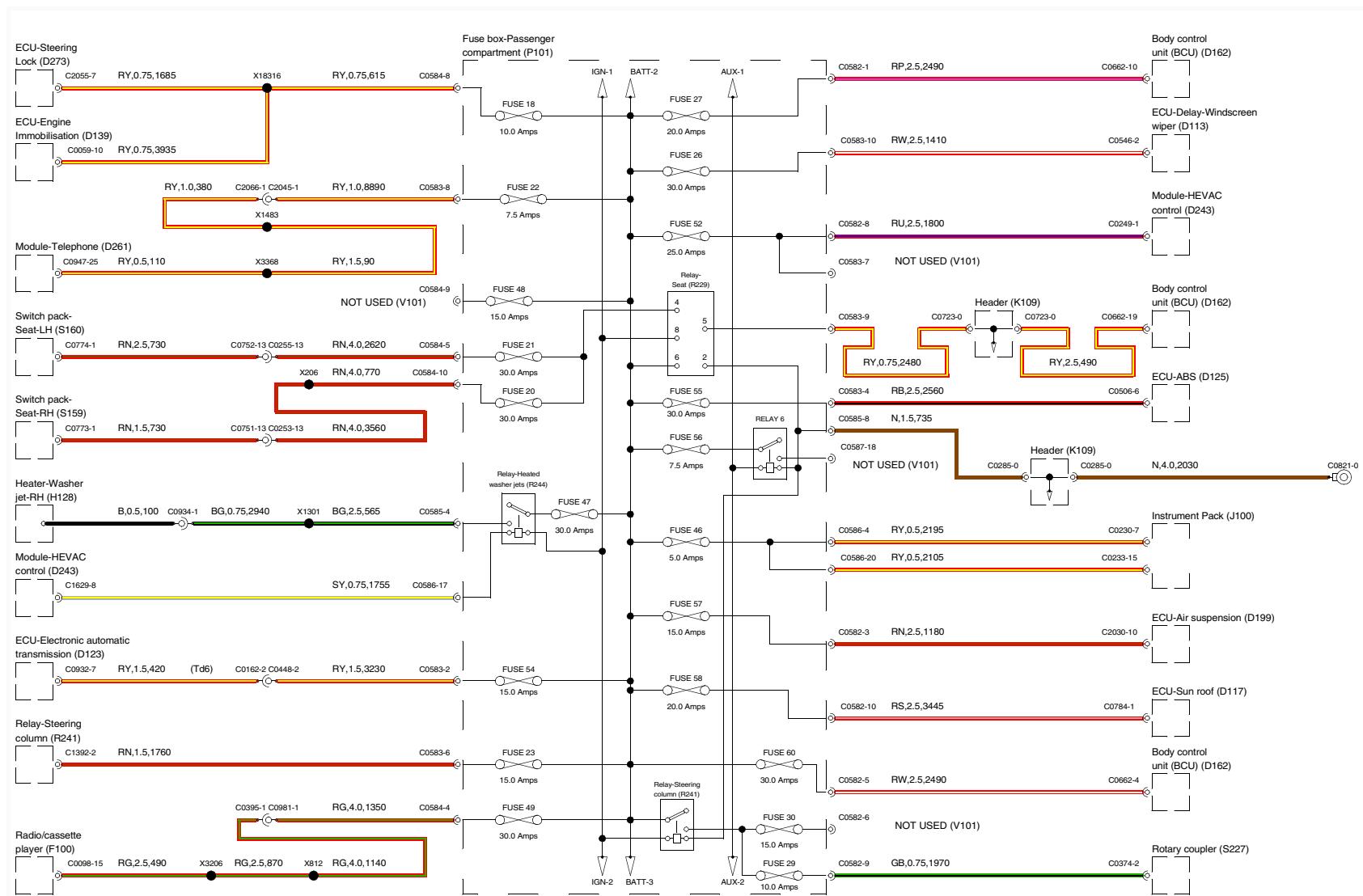




1 | POWER DISTRIBUTION

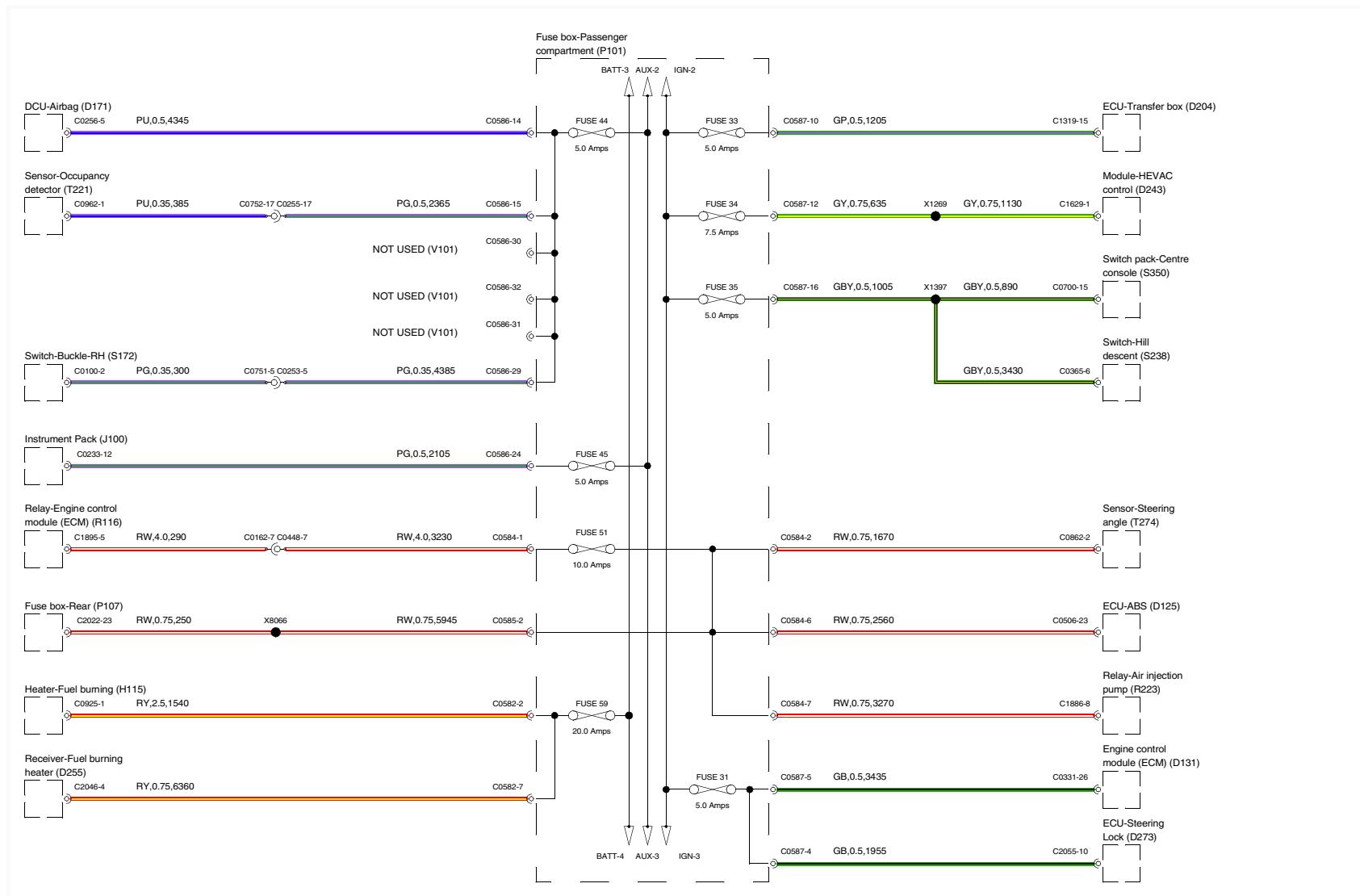
Passenger Compartment Fuse Box

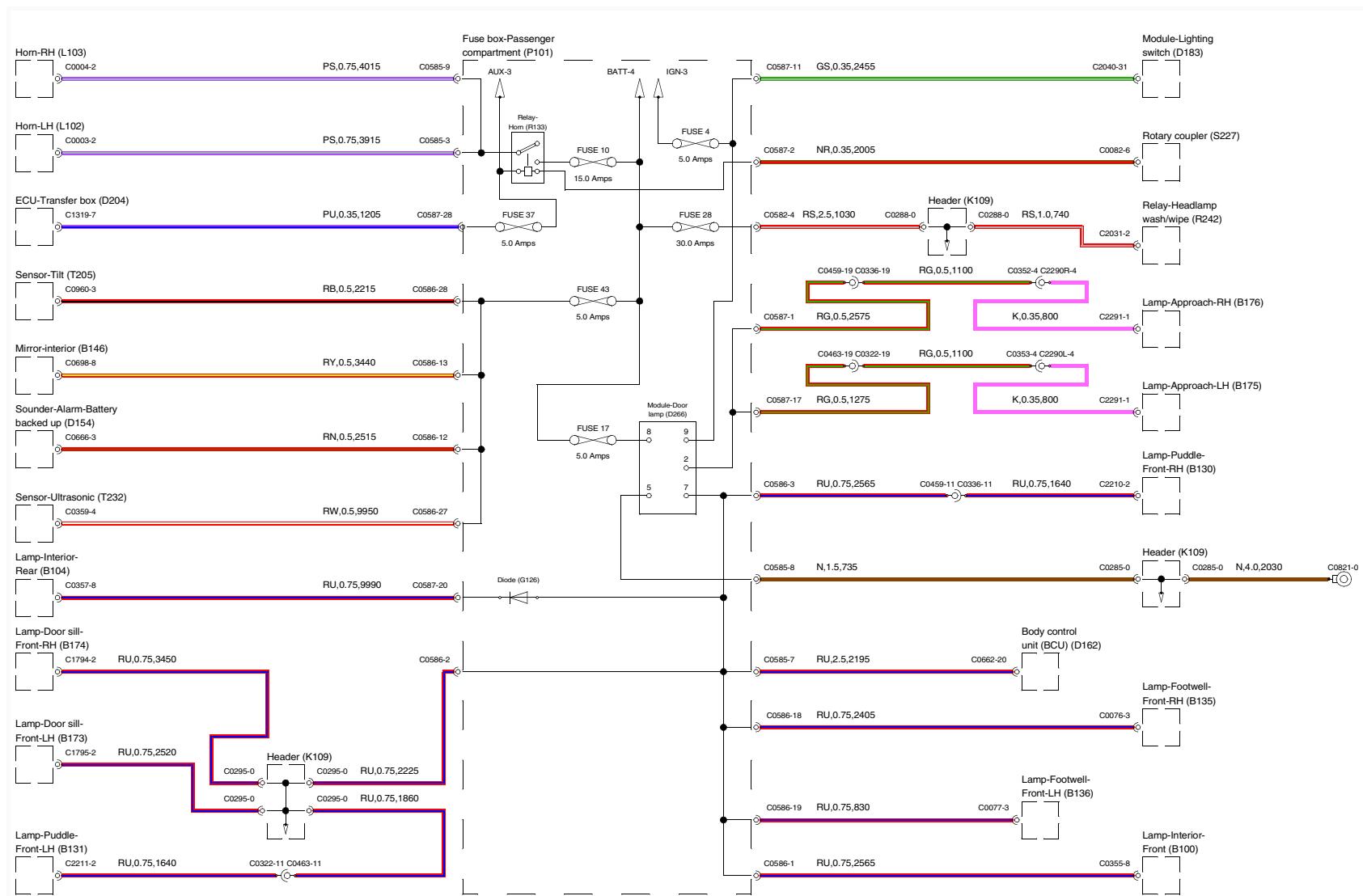




1 POWER DISTRIBUTION

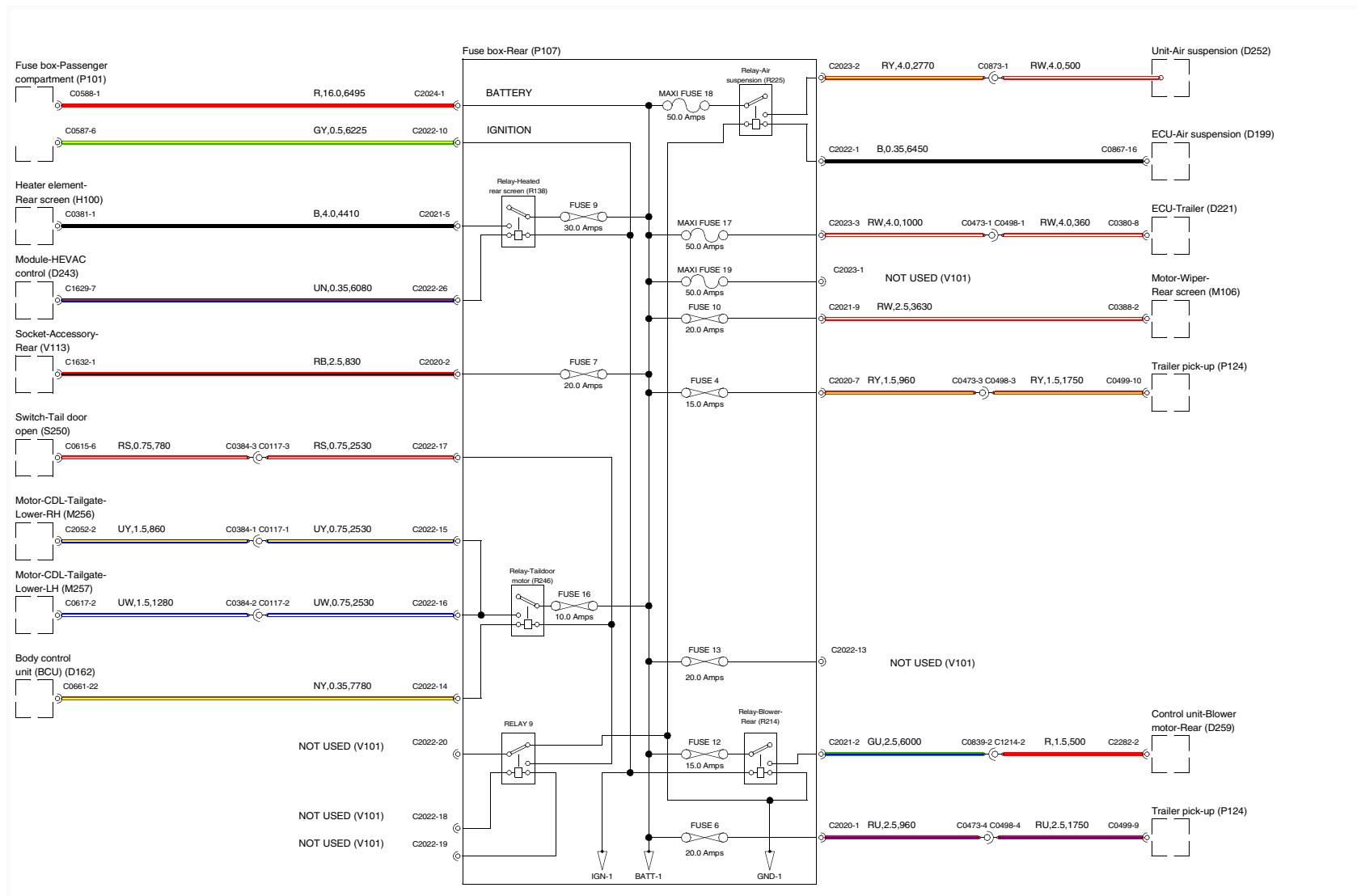
Passenger Compartment Fuse Box

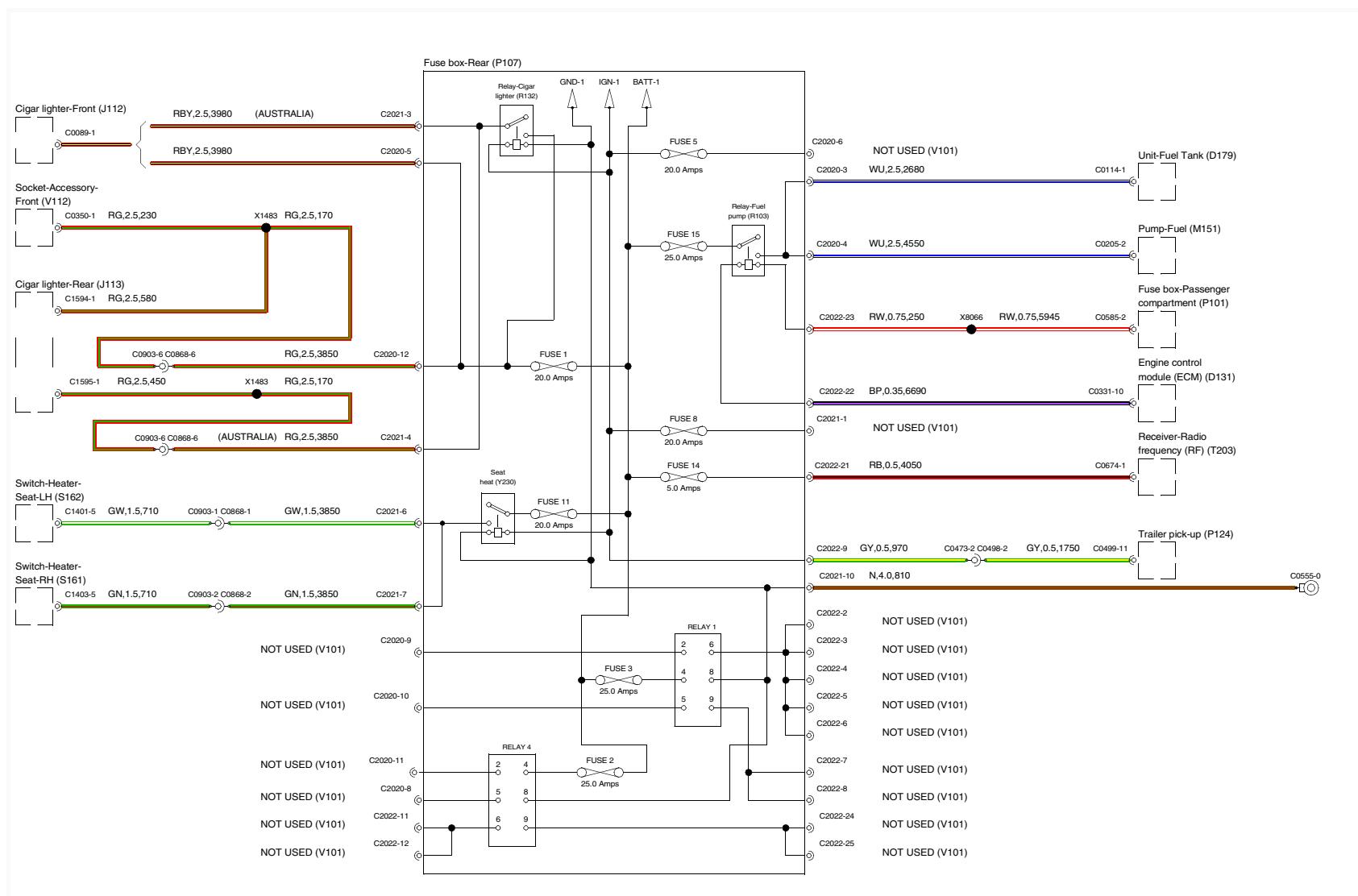


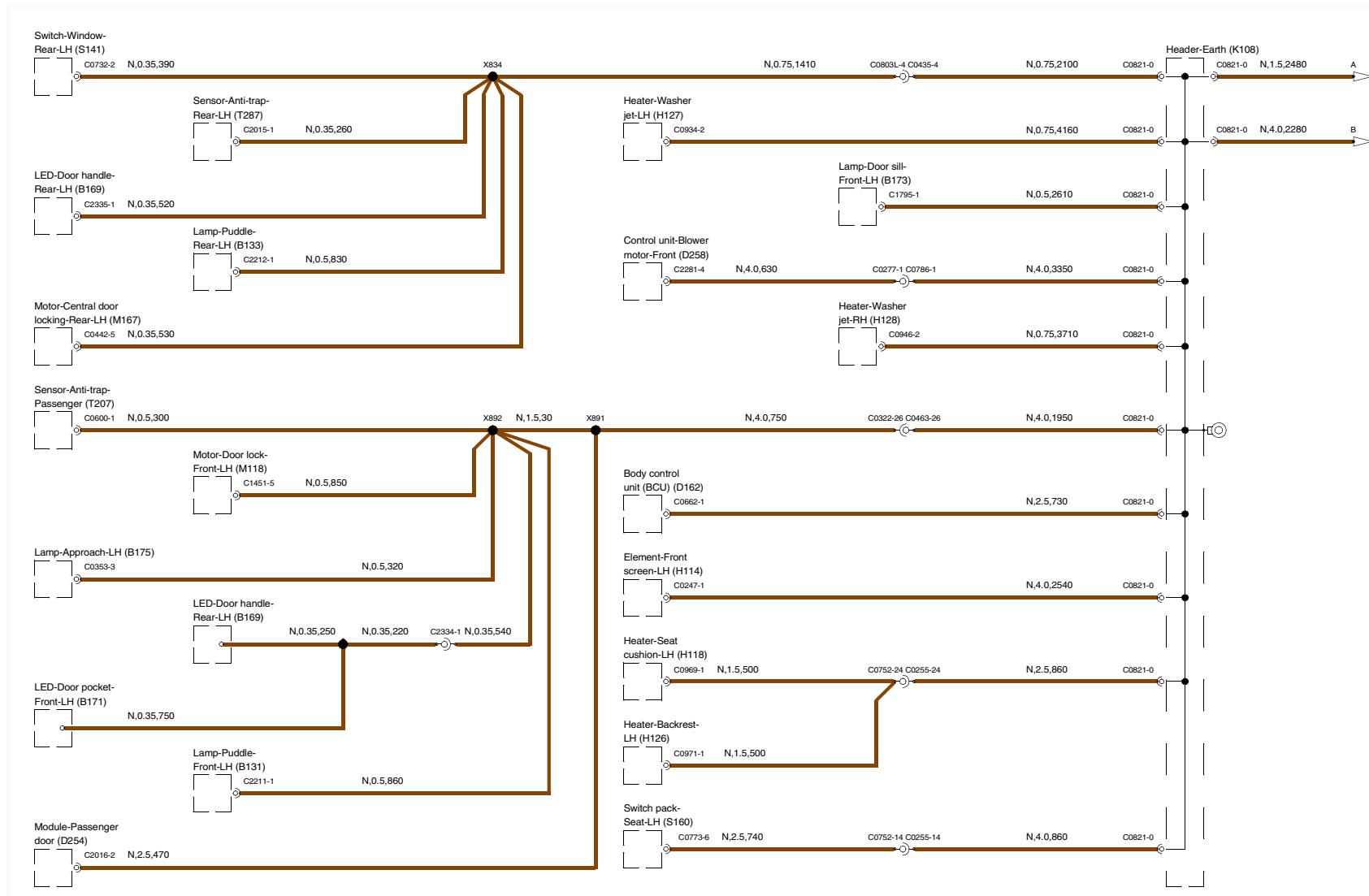


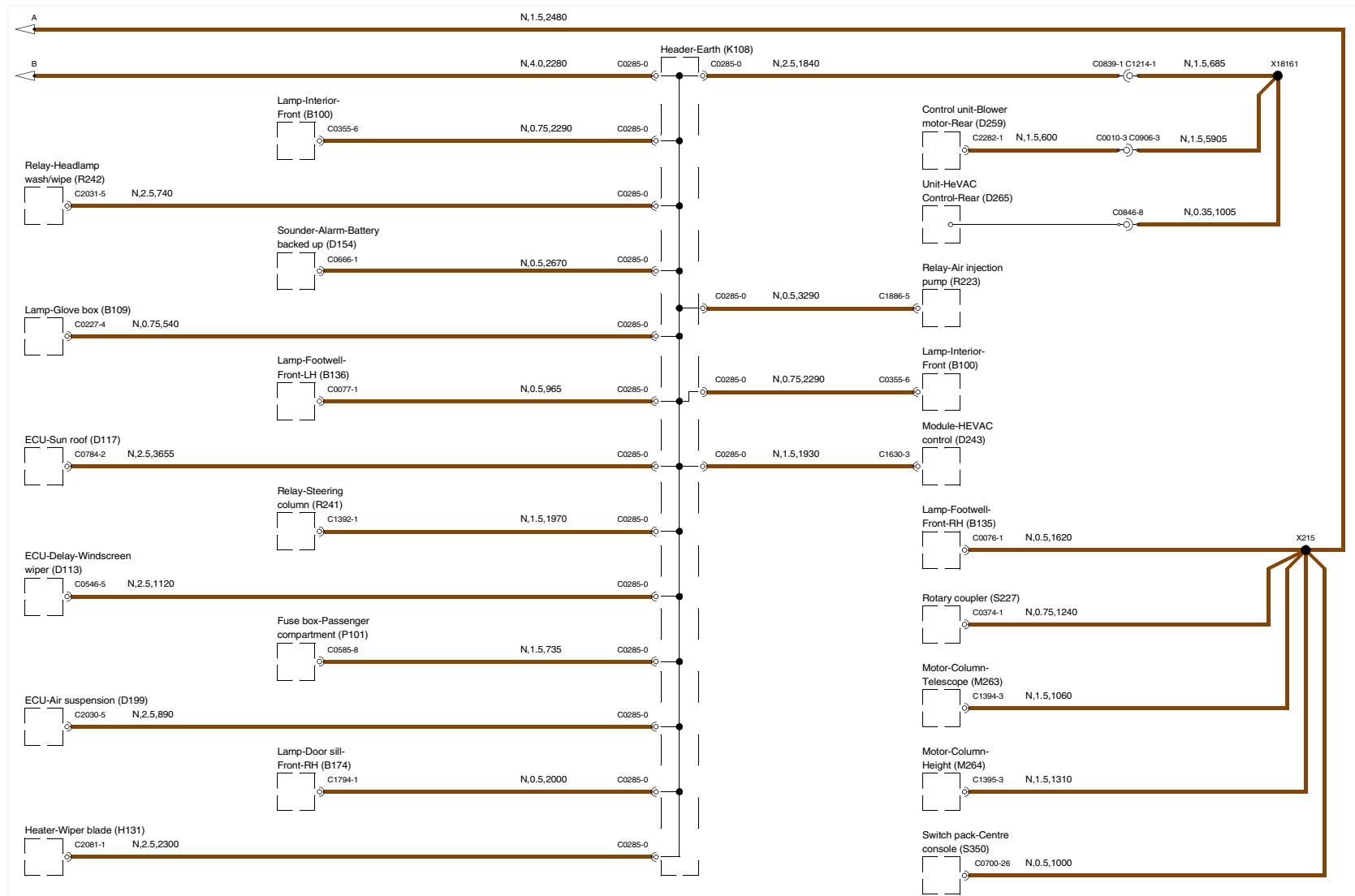
1 POWER DISTRIBUTION

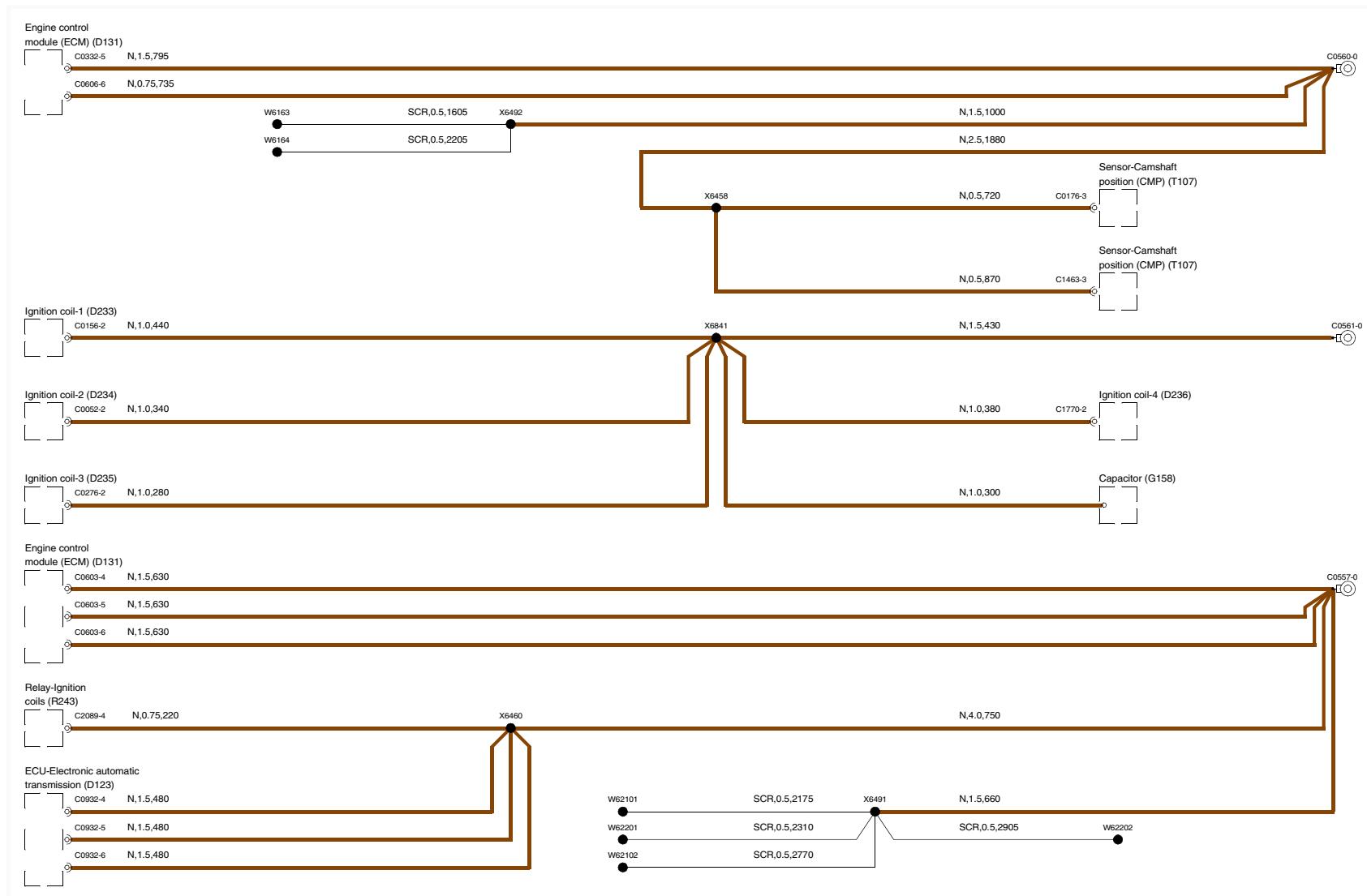
Rear Fuse Box

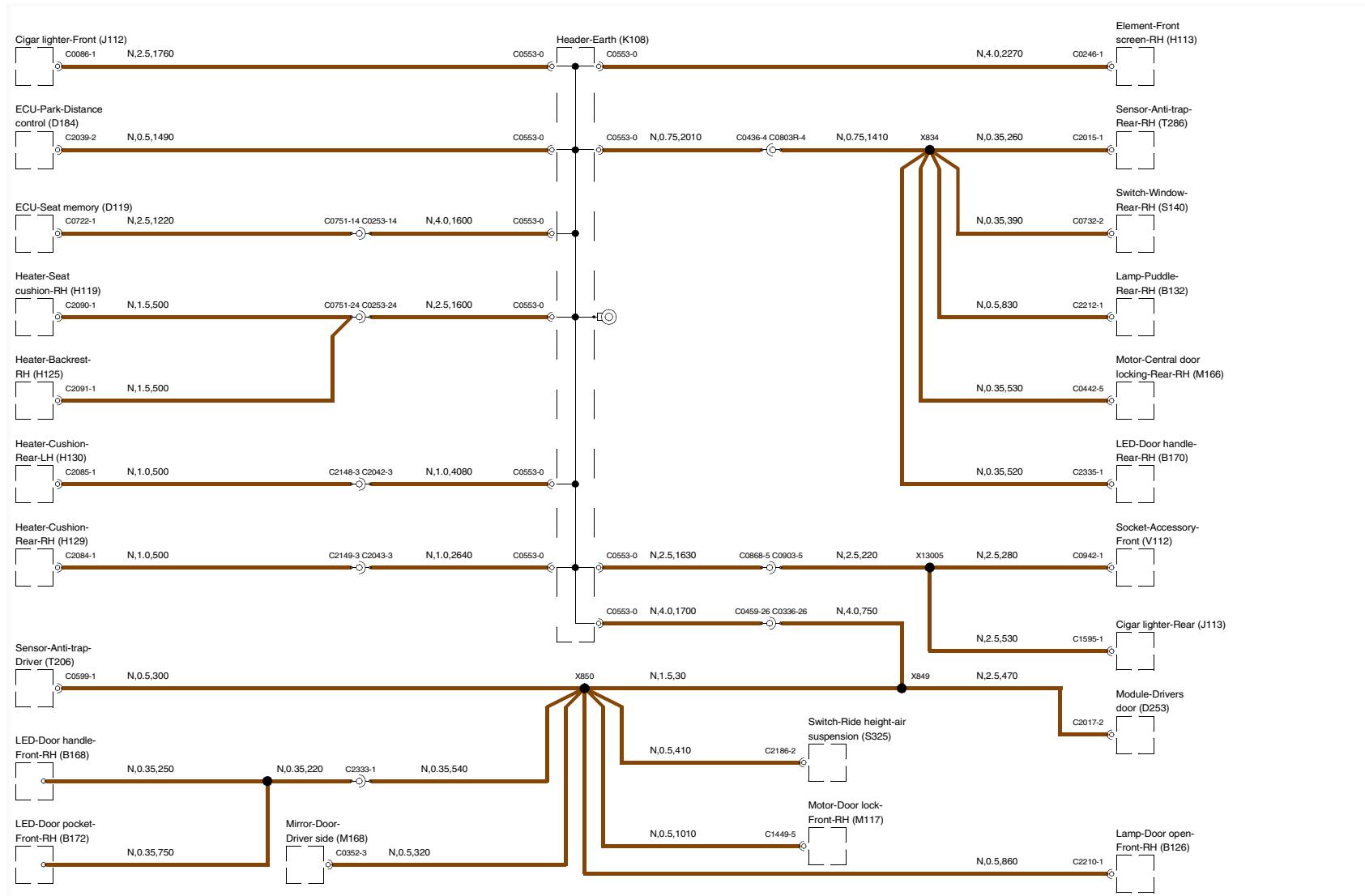


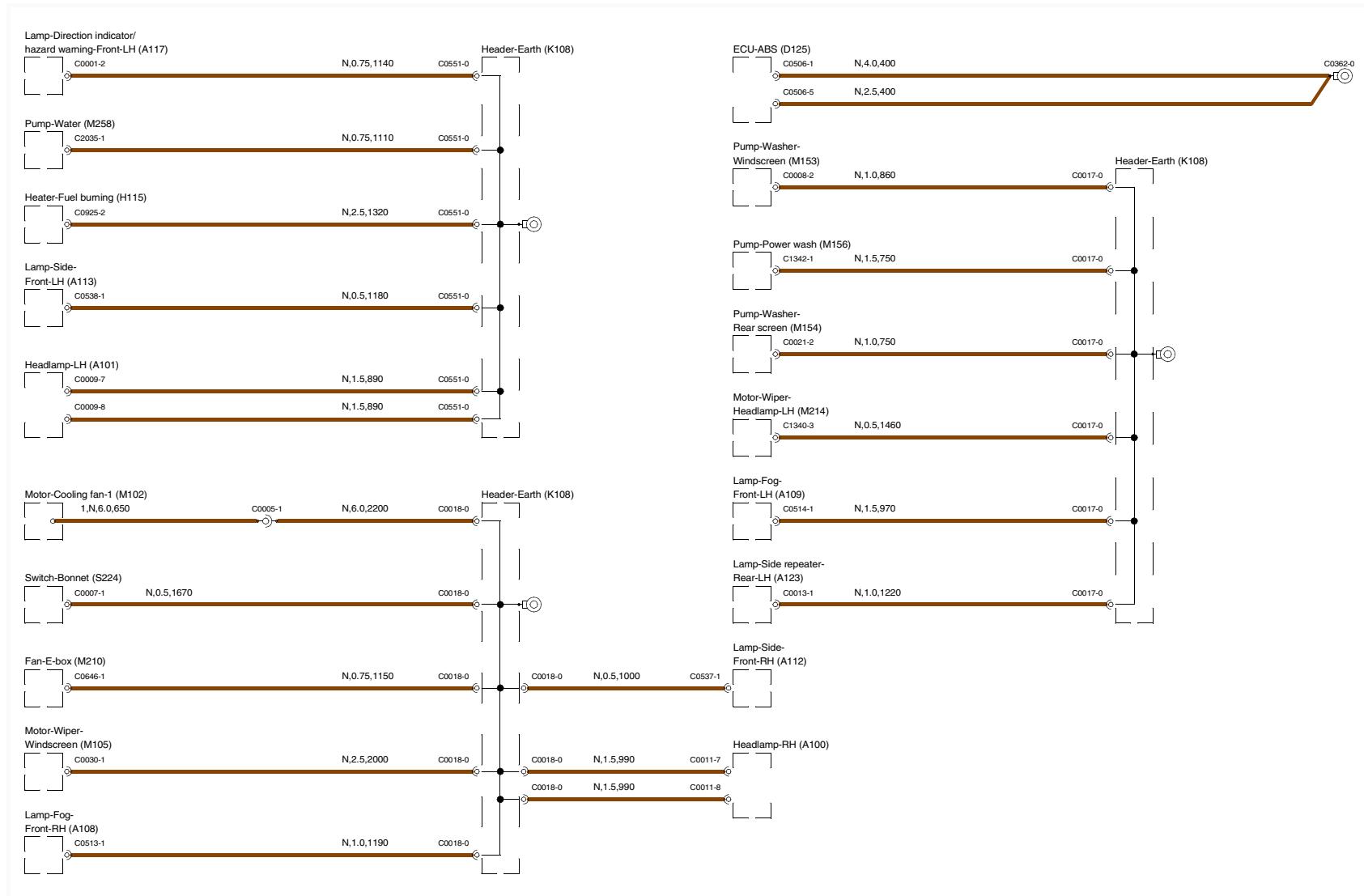


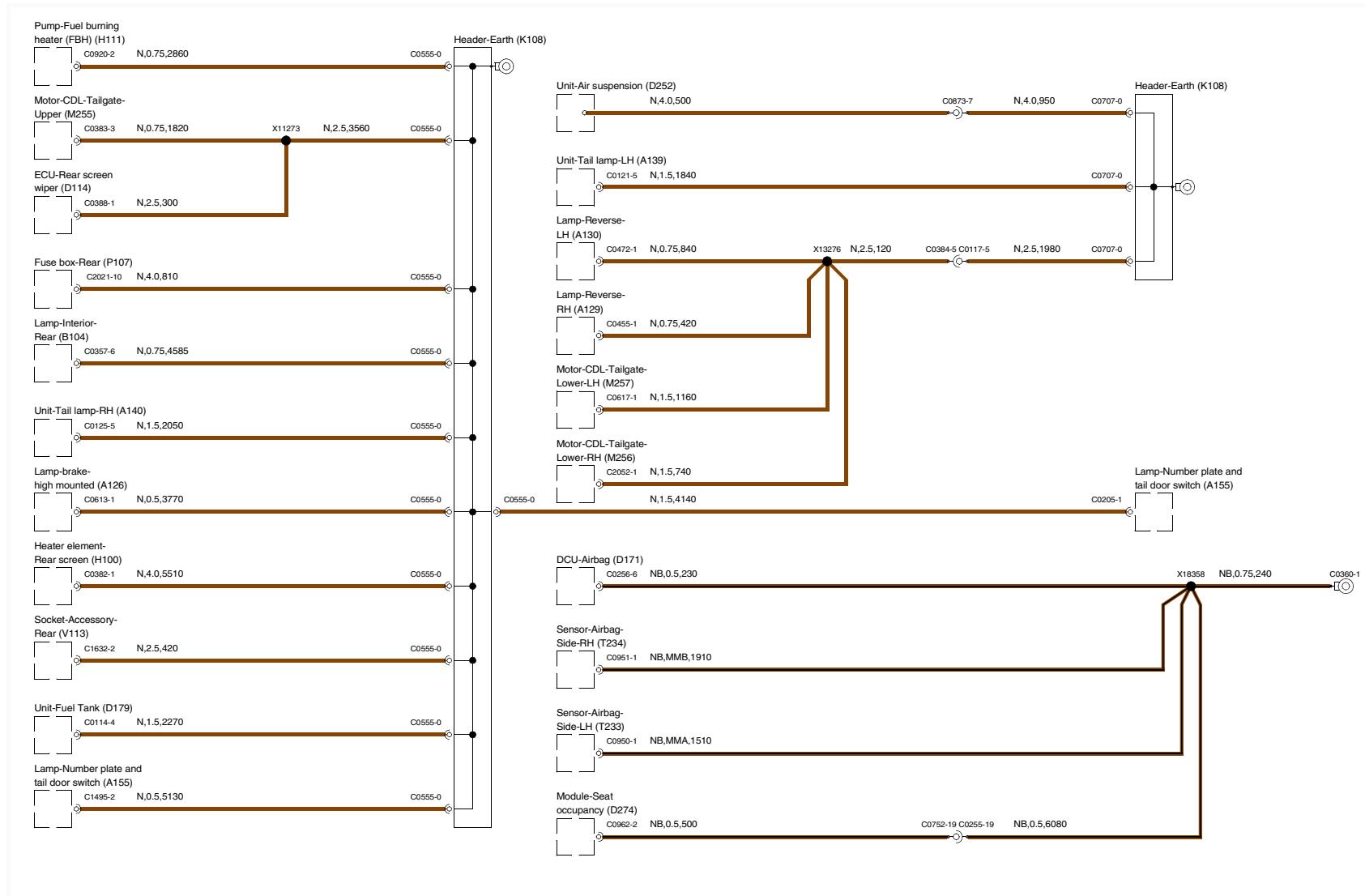




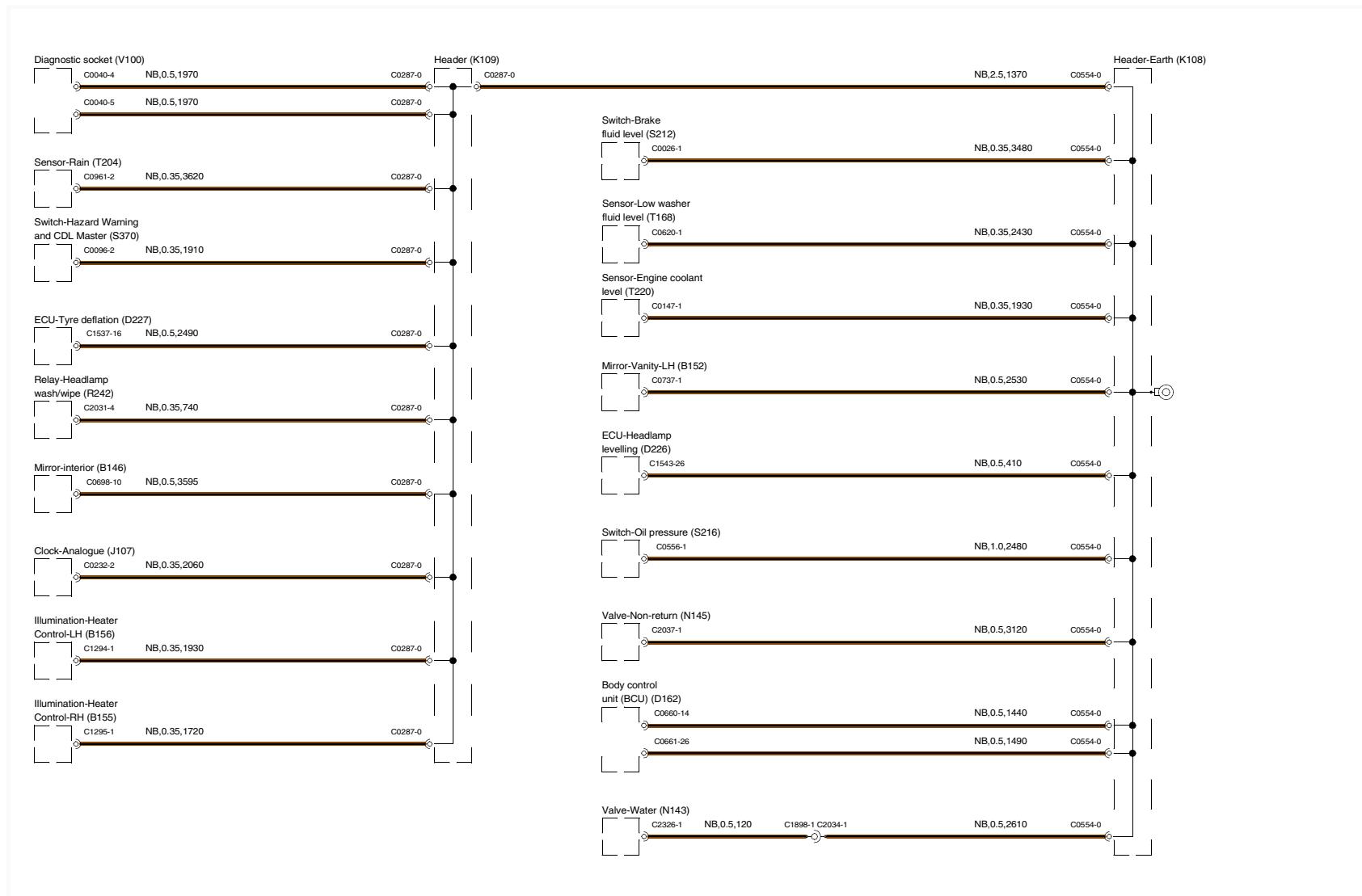


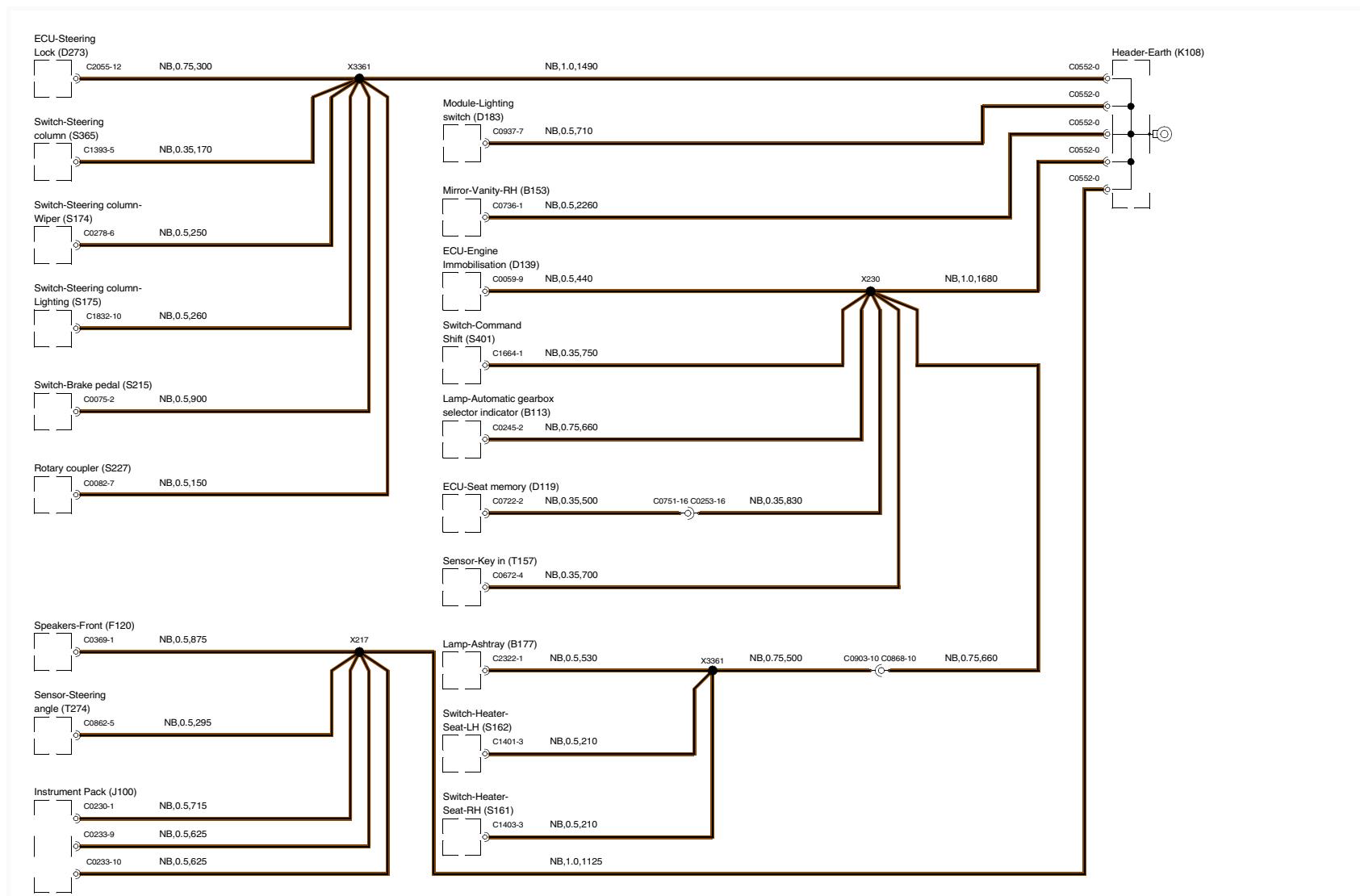


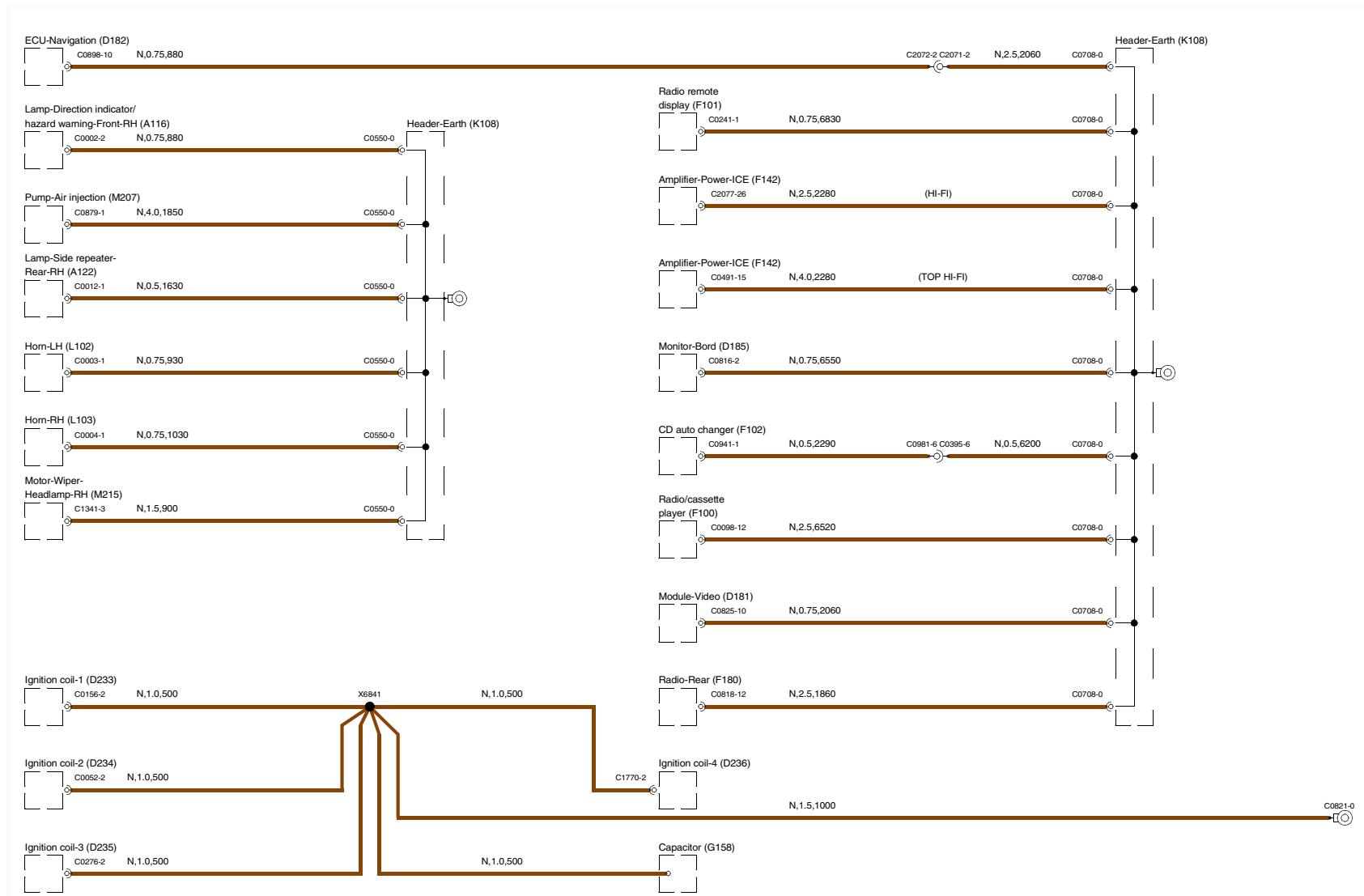


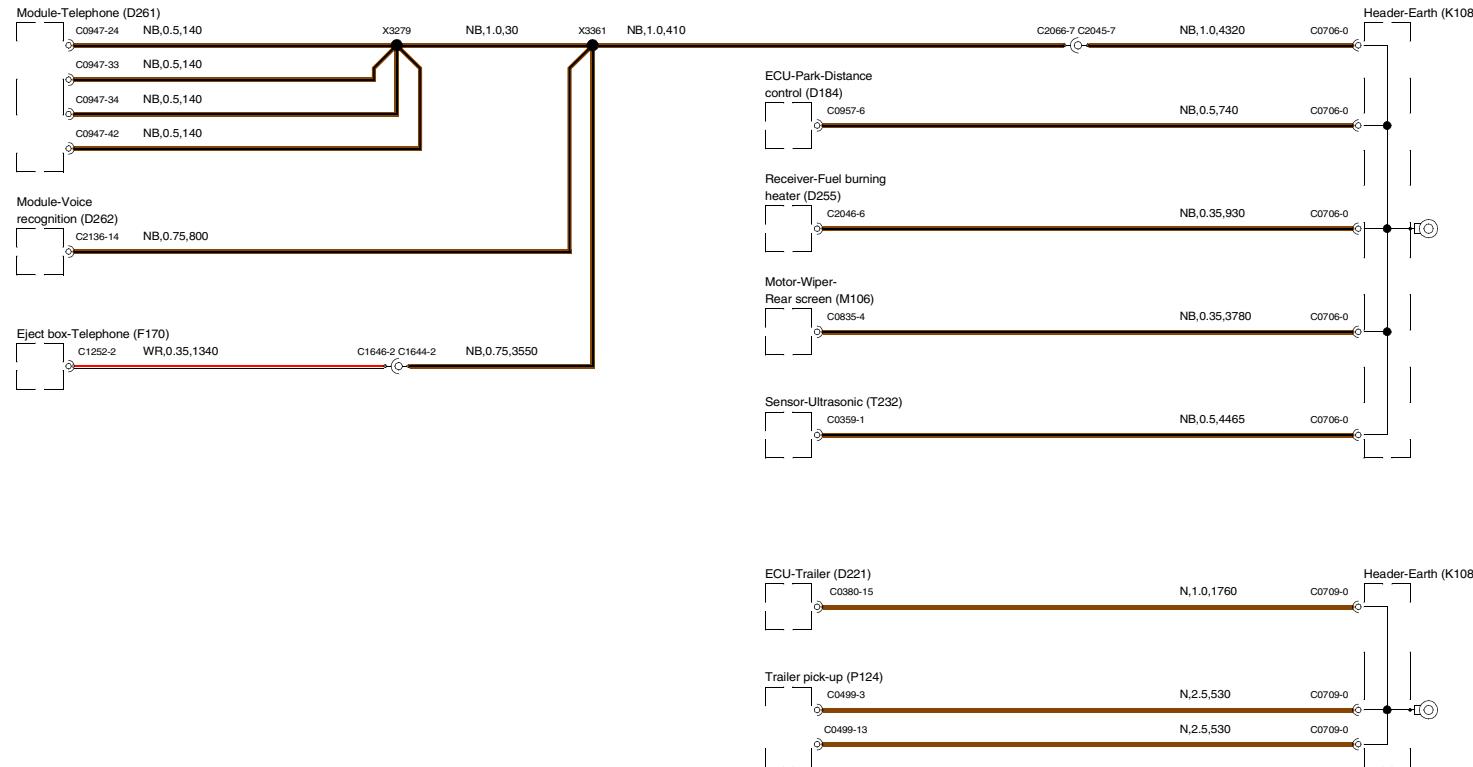


2 EARTH DISTRIBUTION

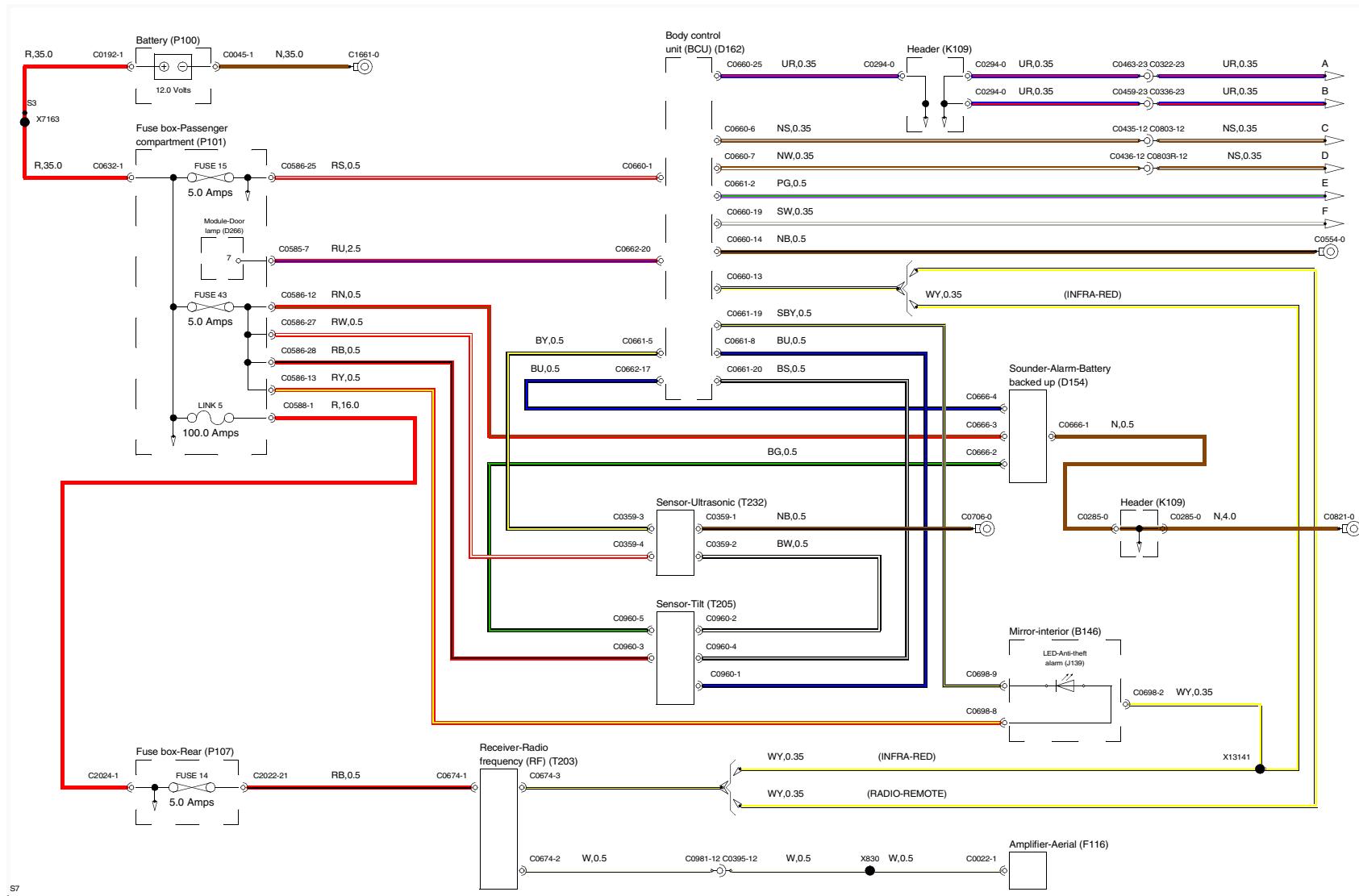


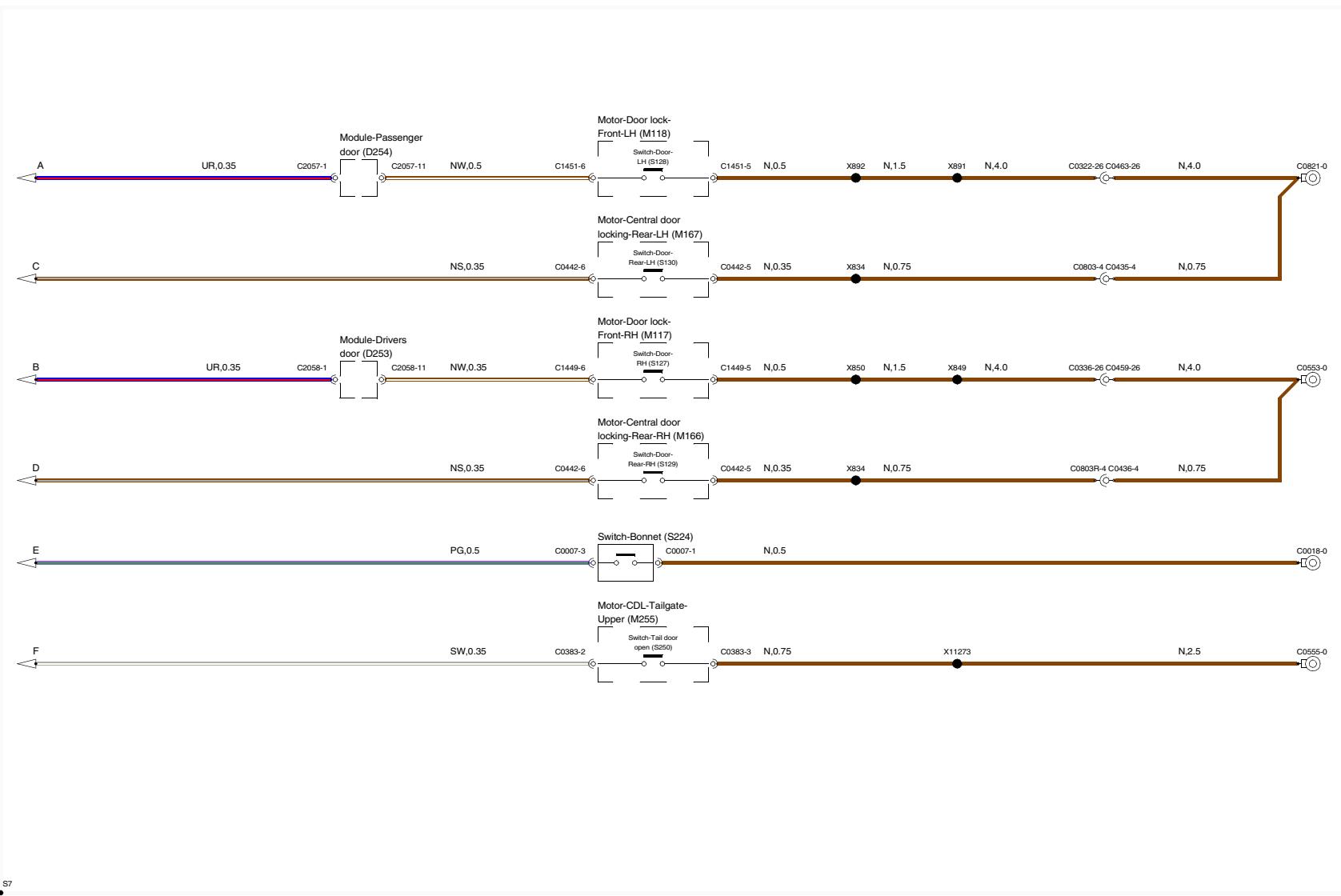


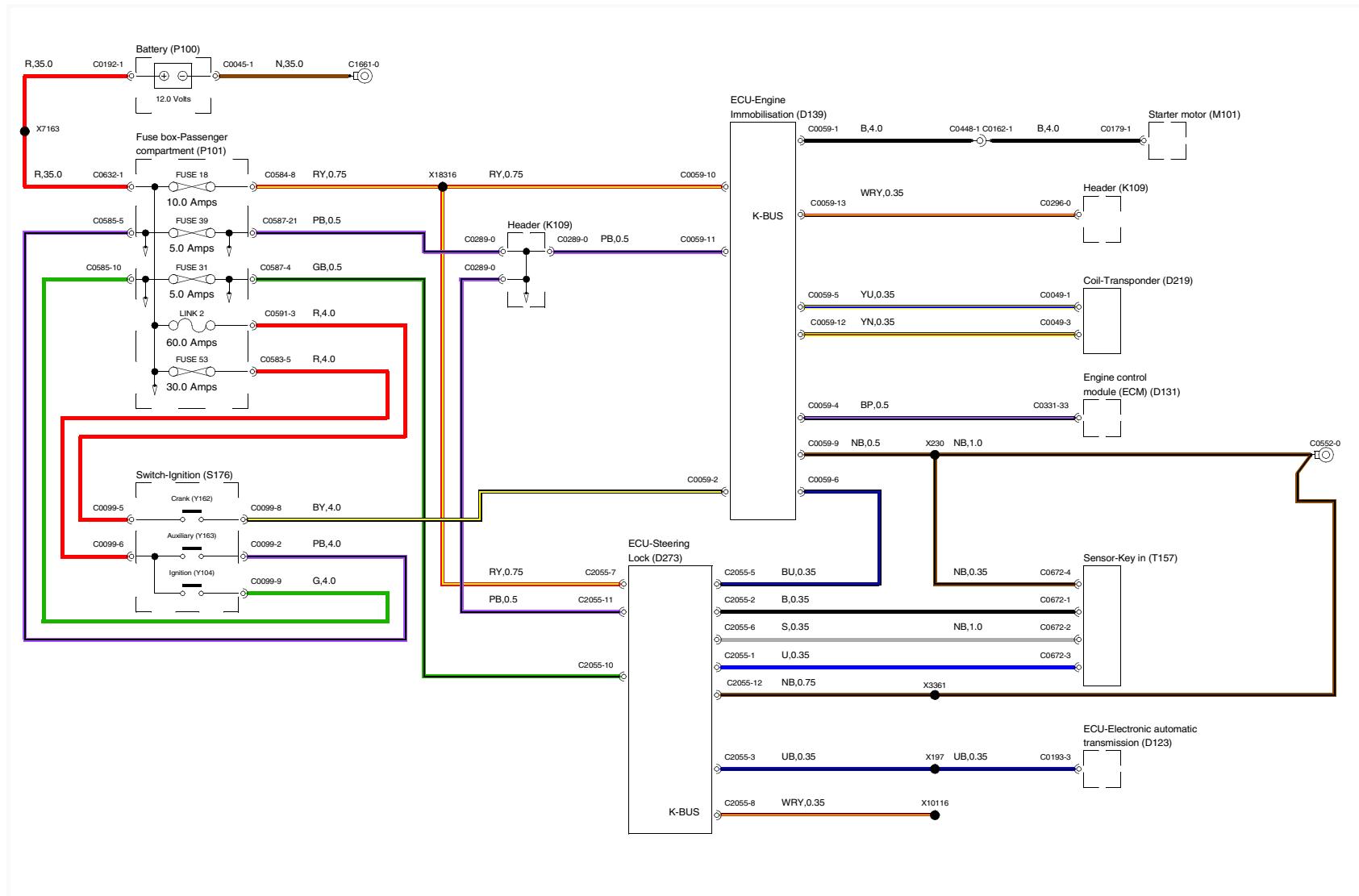


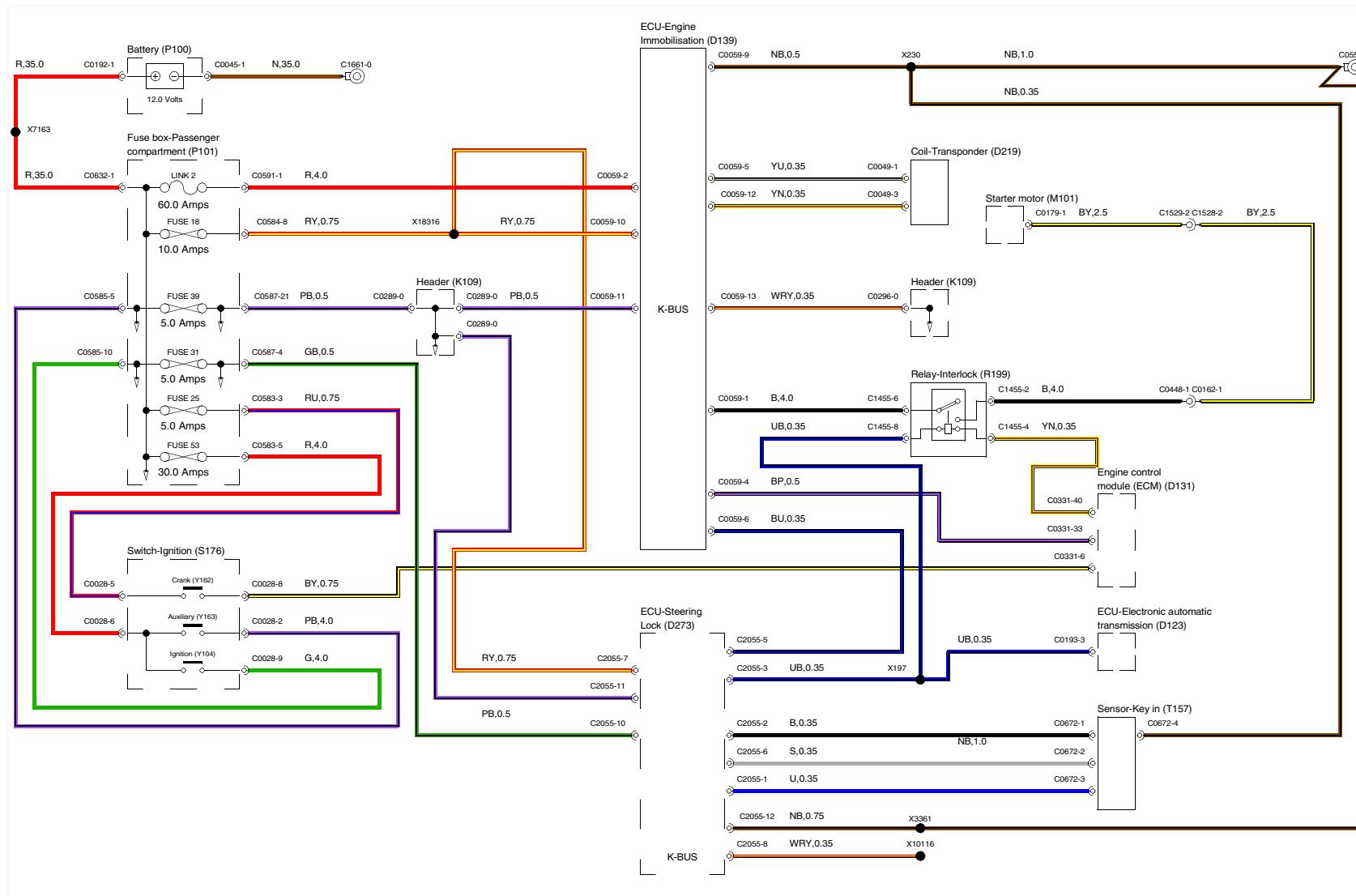


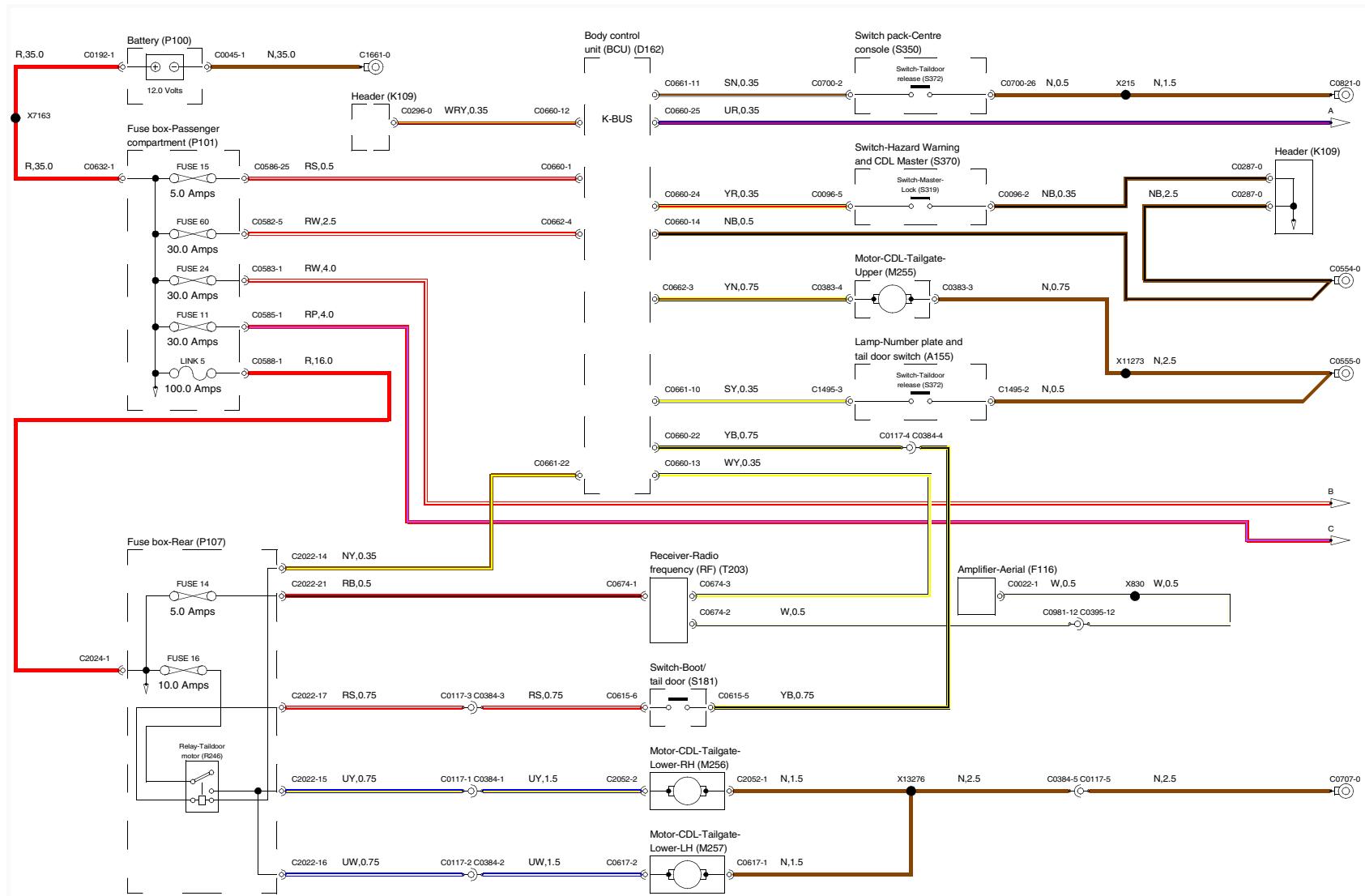
3 ANTI-THEFT ALARM

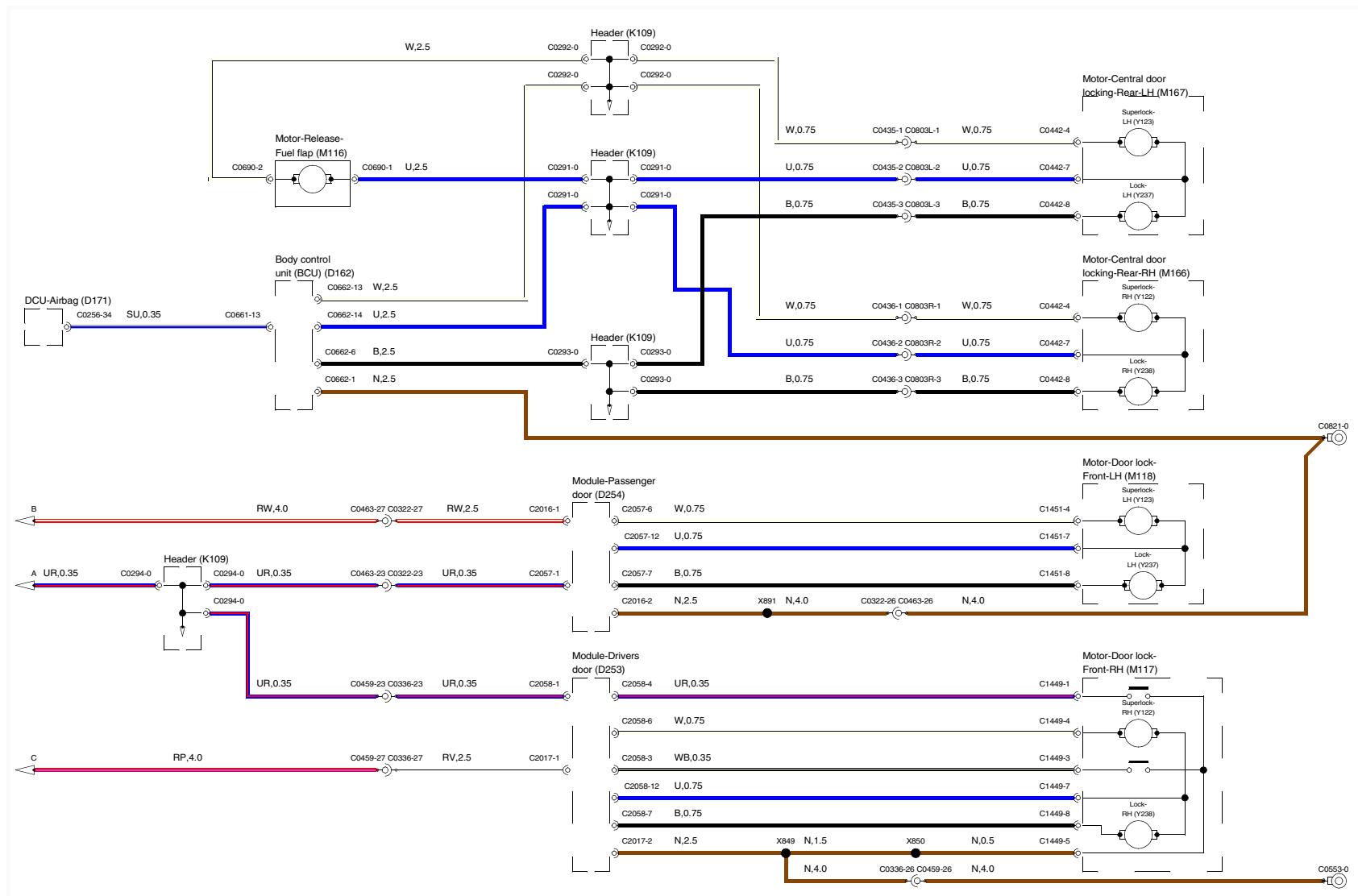


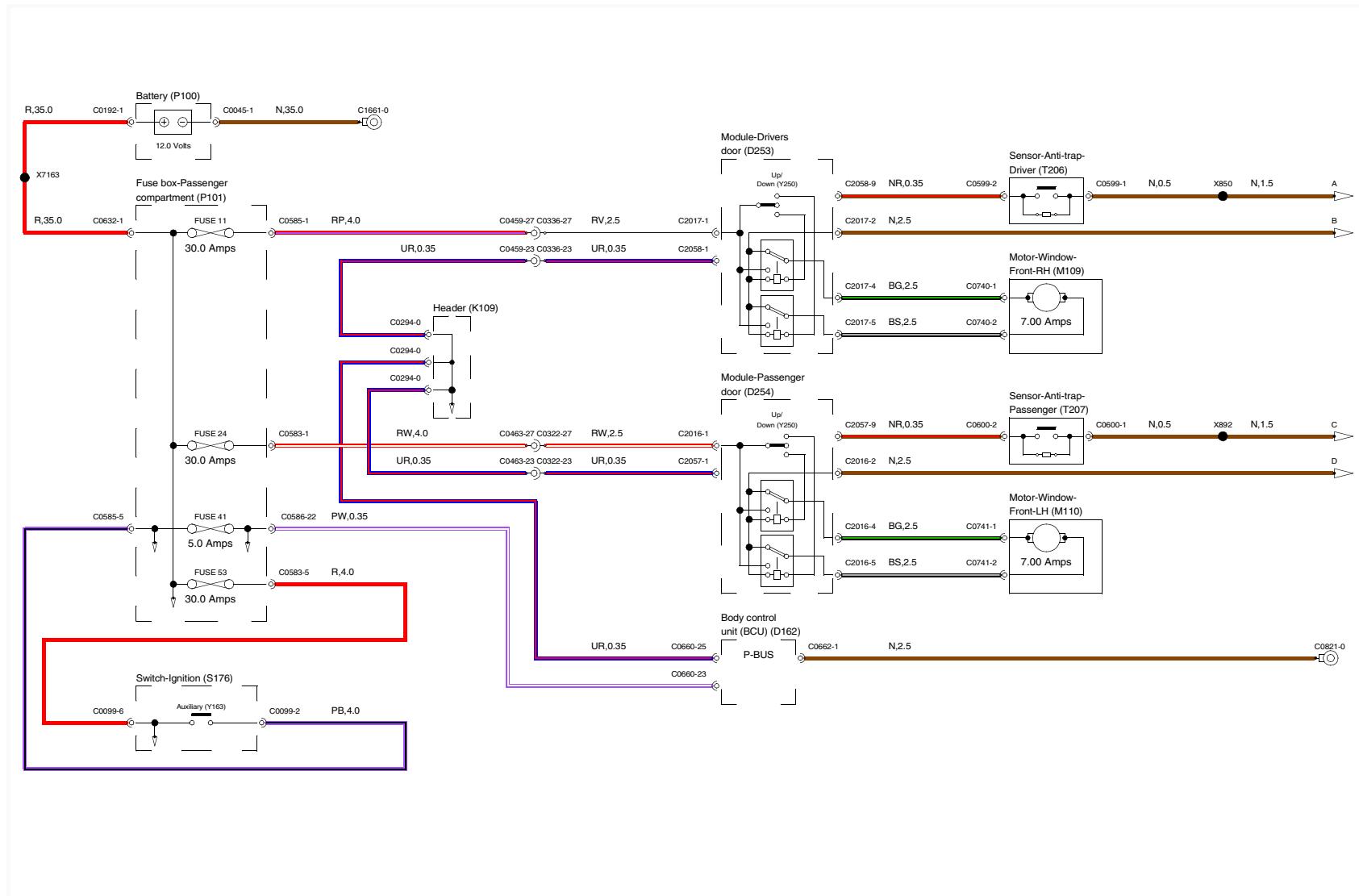


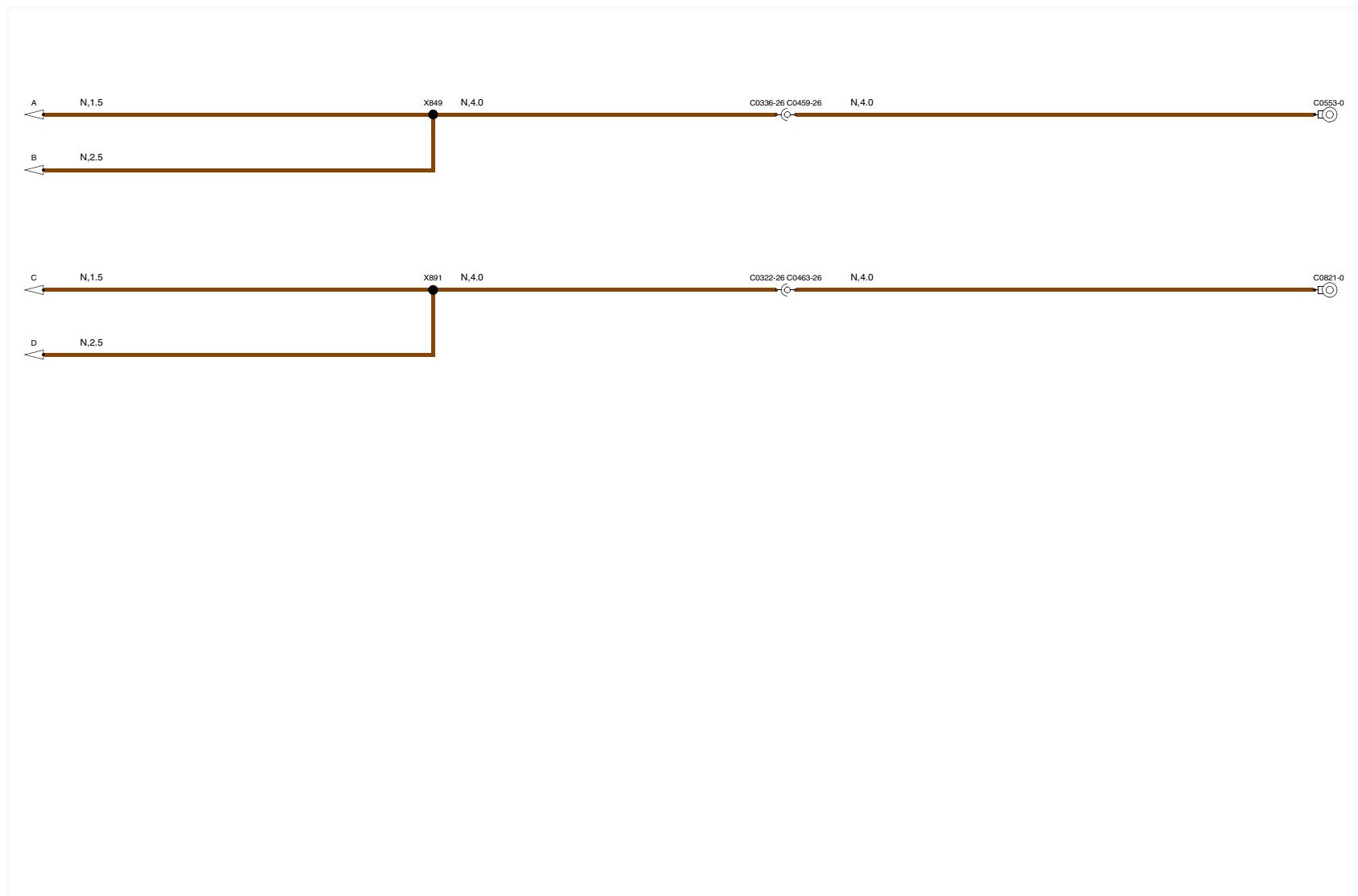


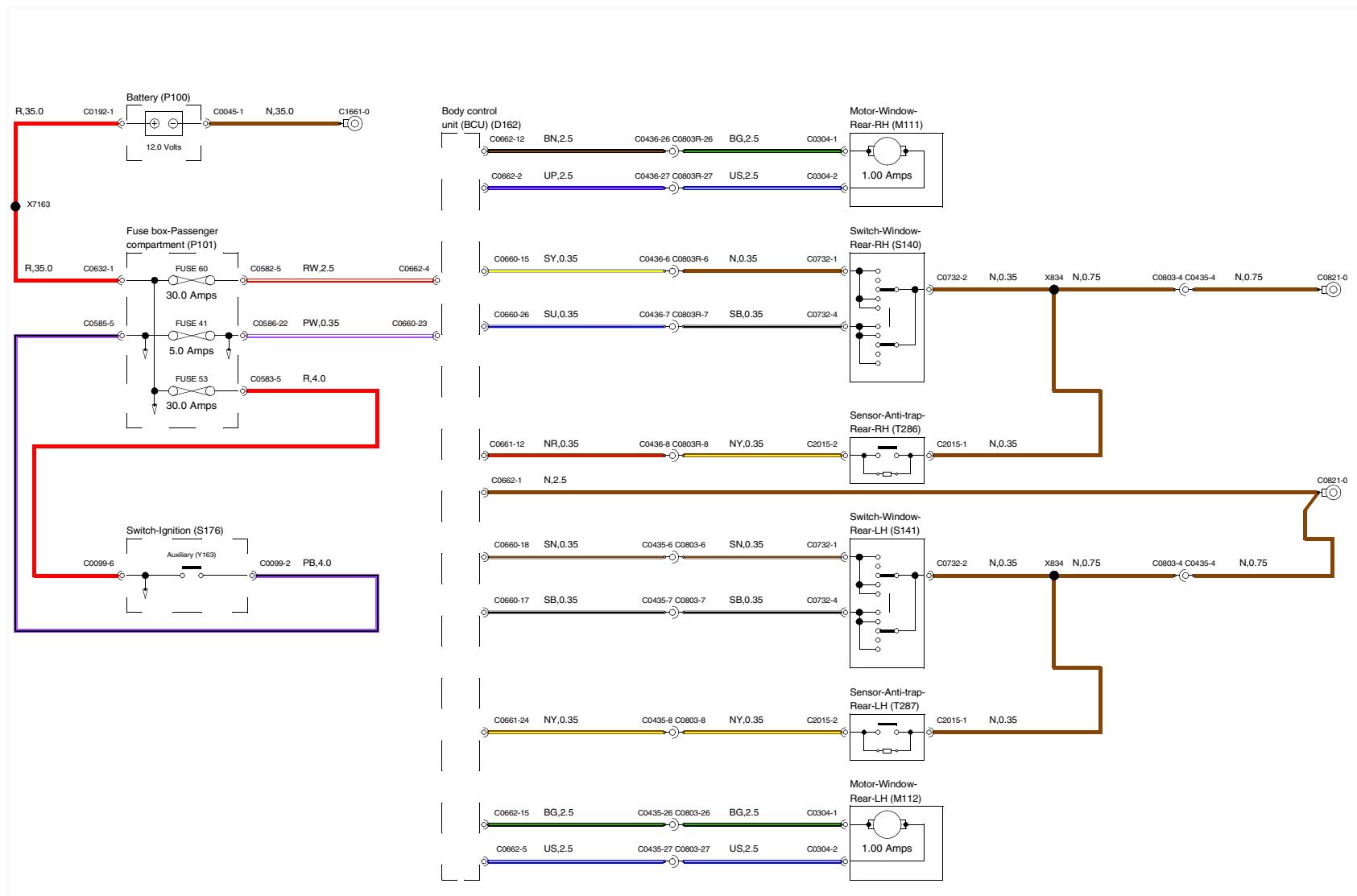




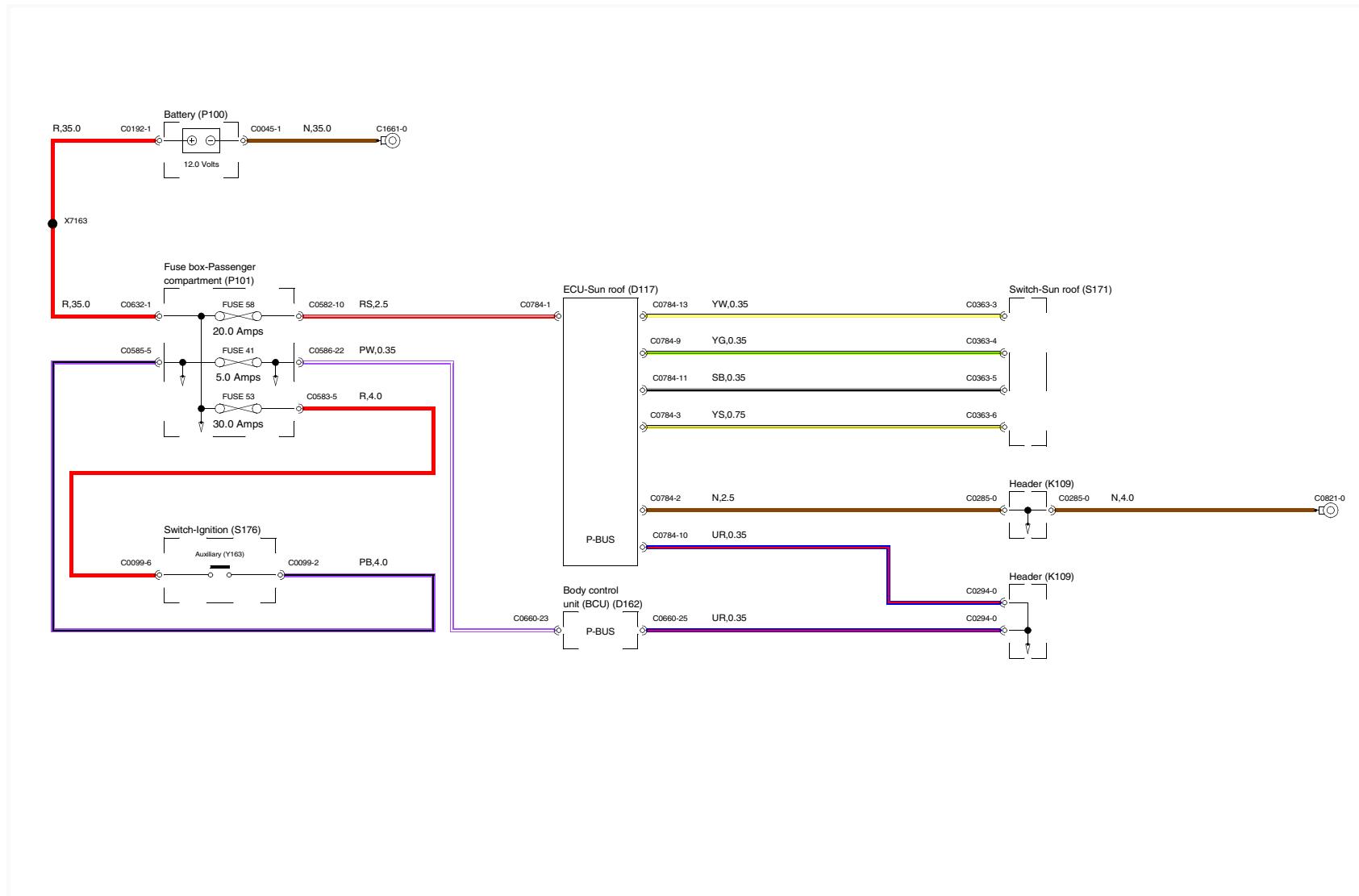




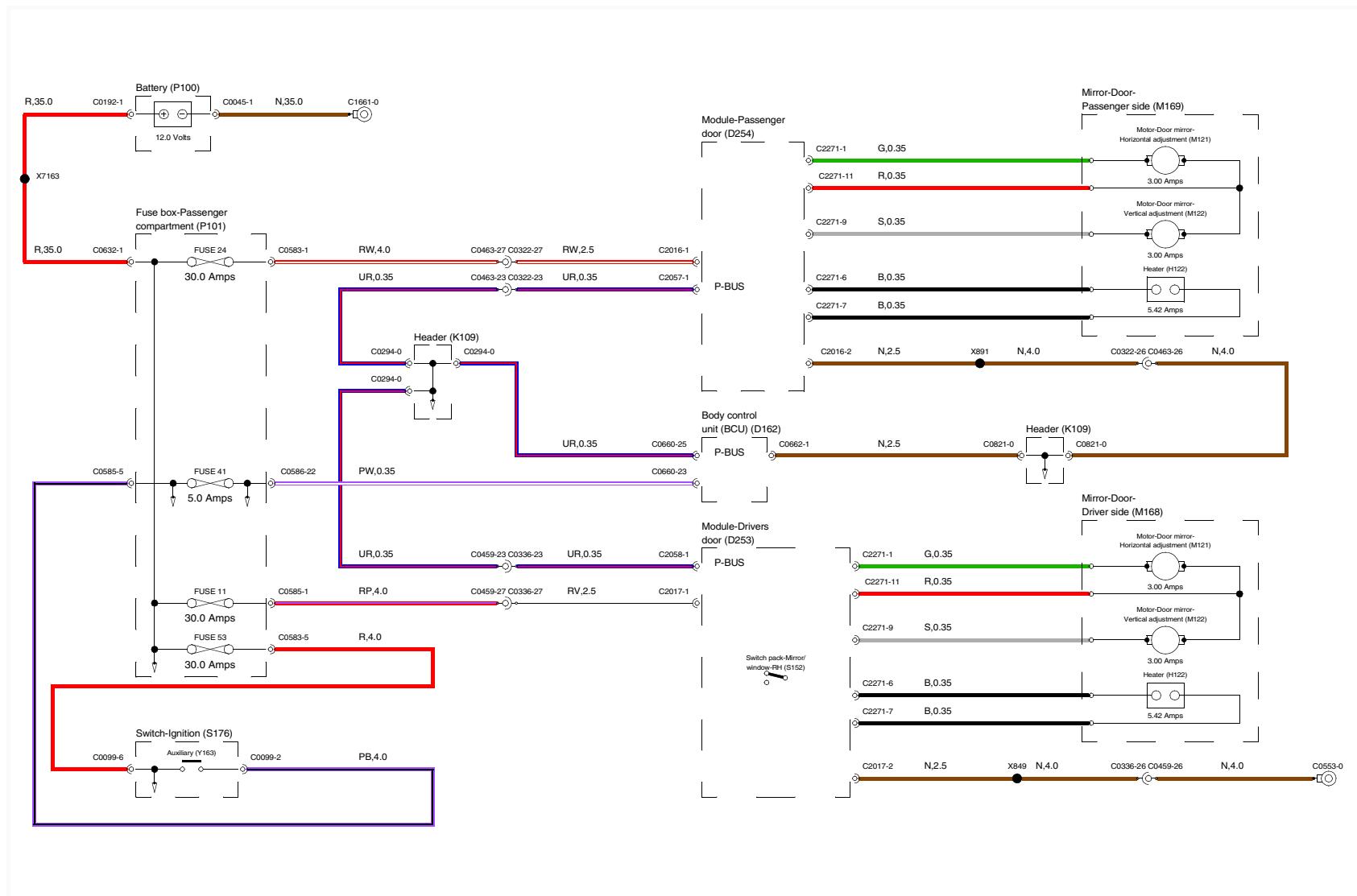


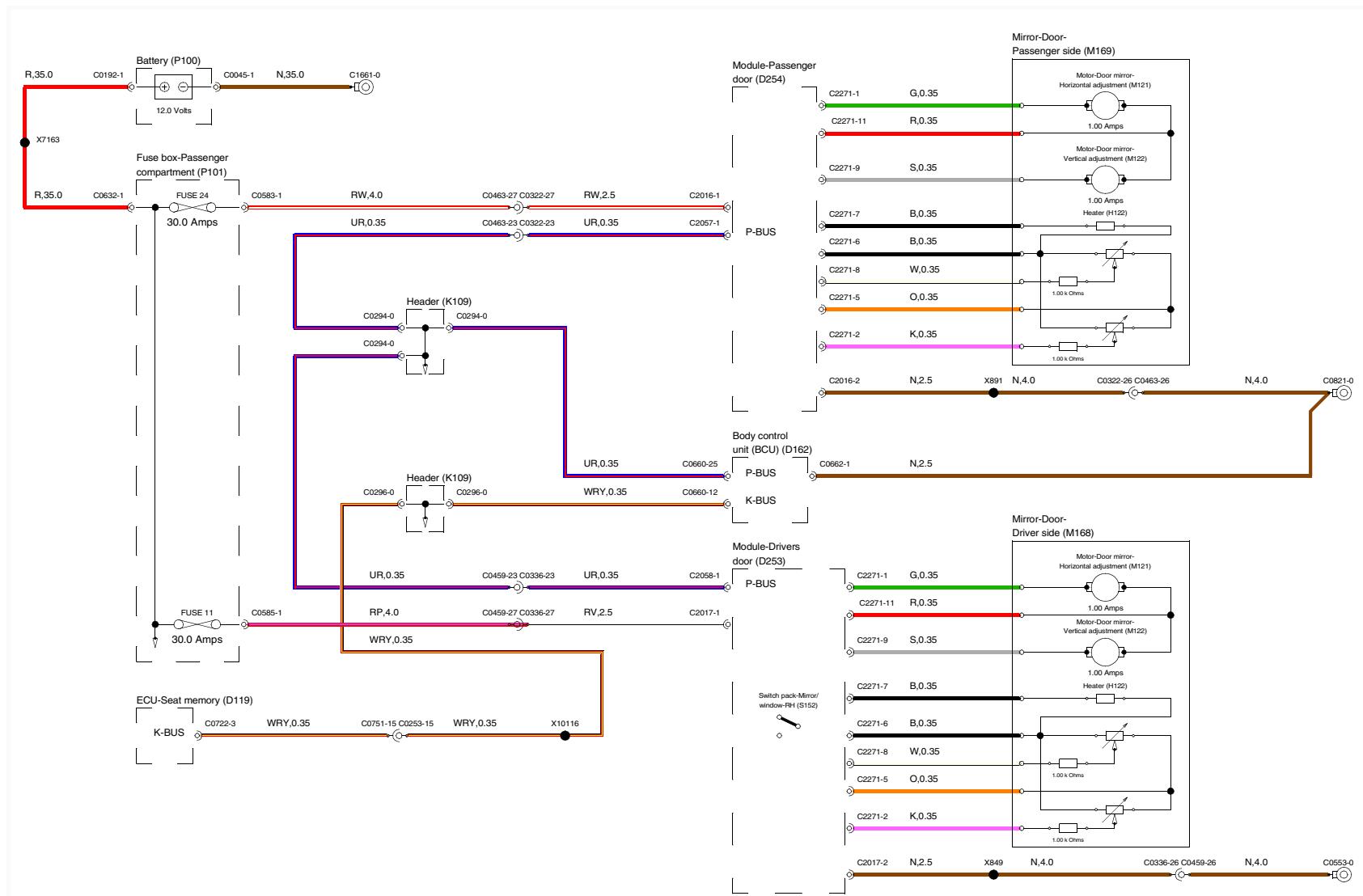


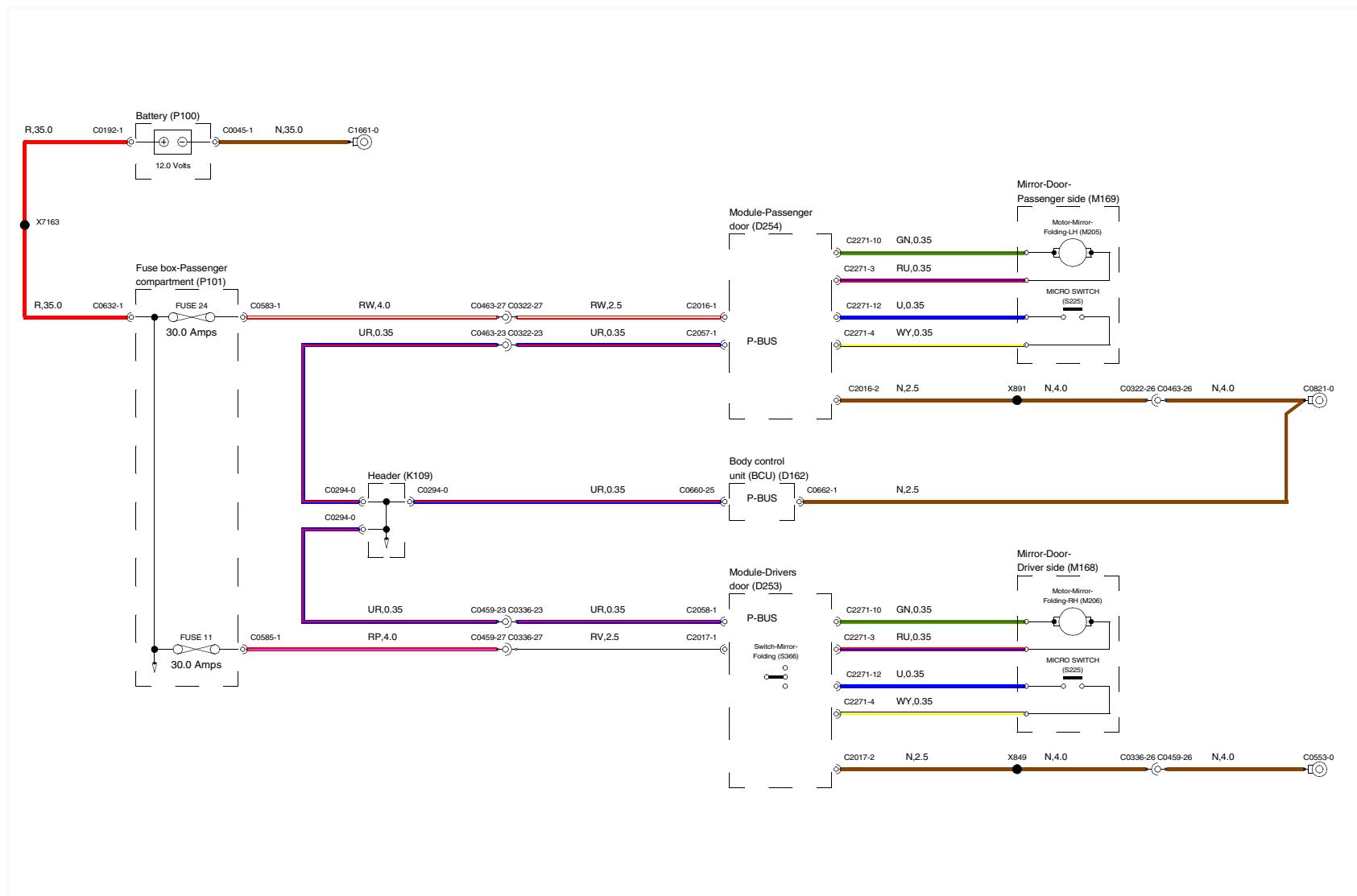
6 SUNROOF

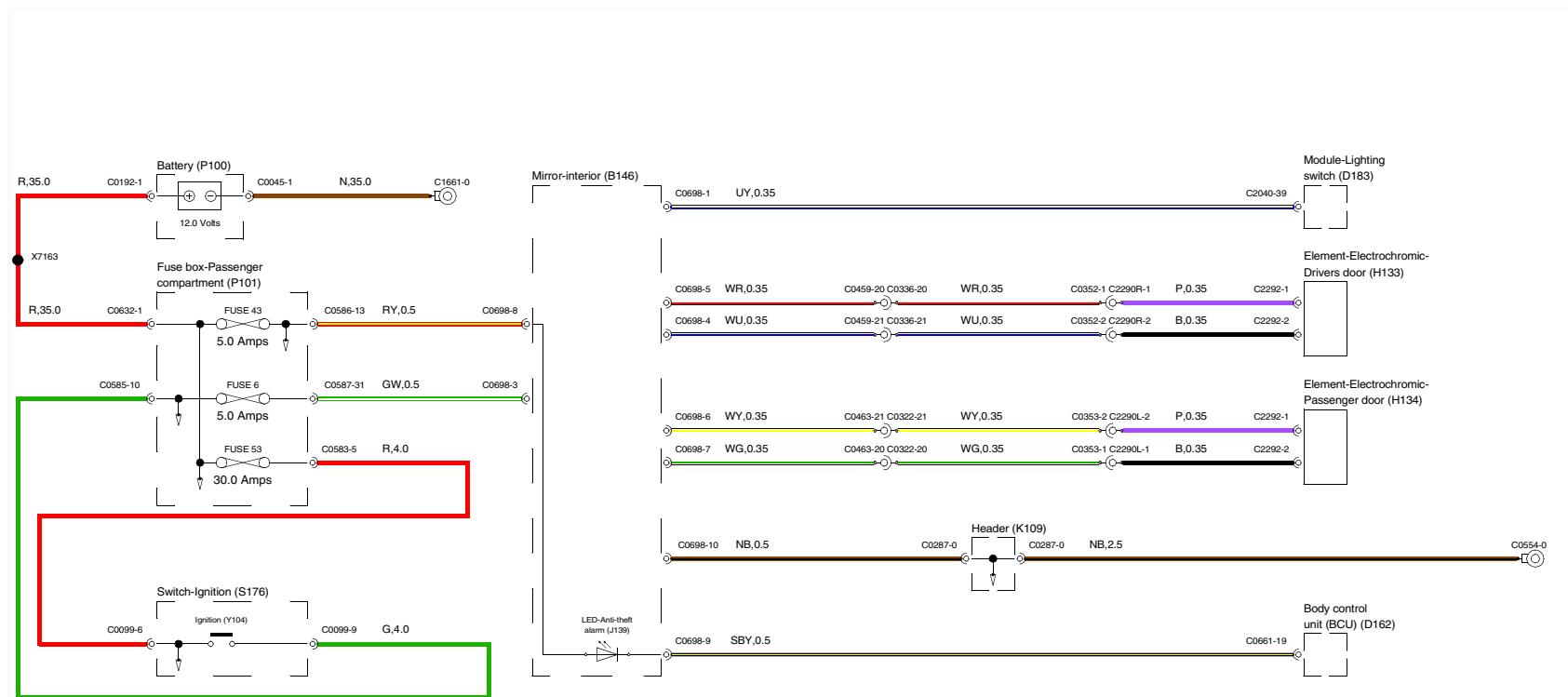


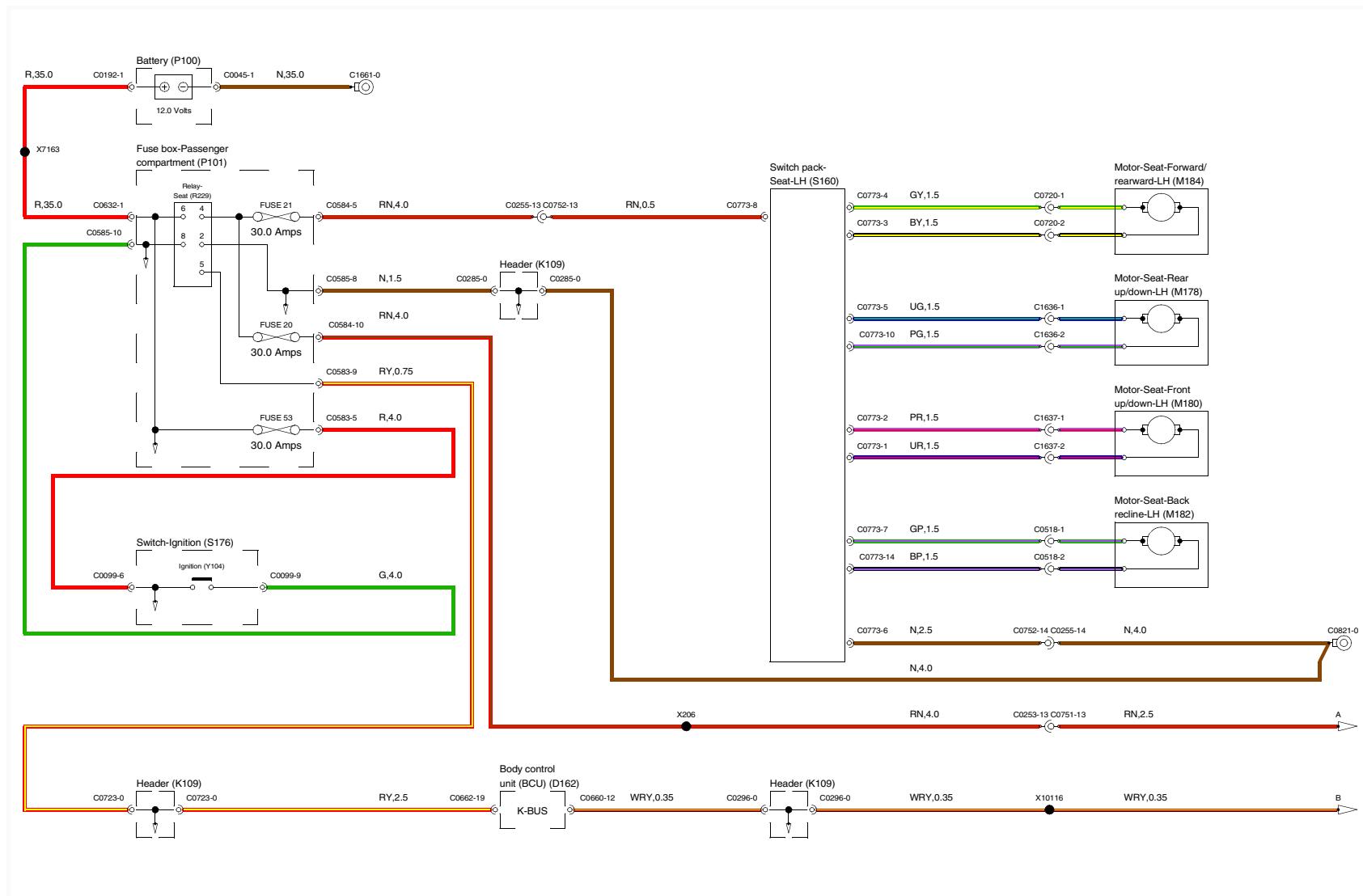
7 DOOR MIRRORS

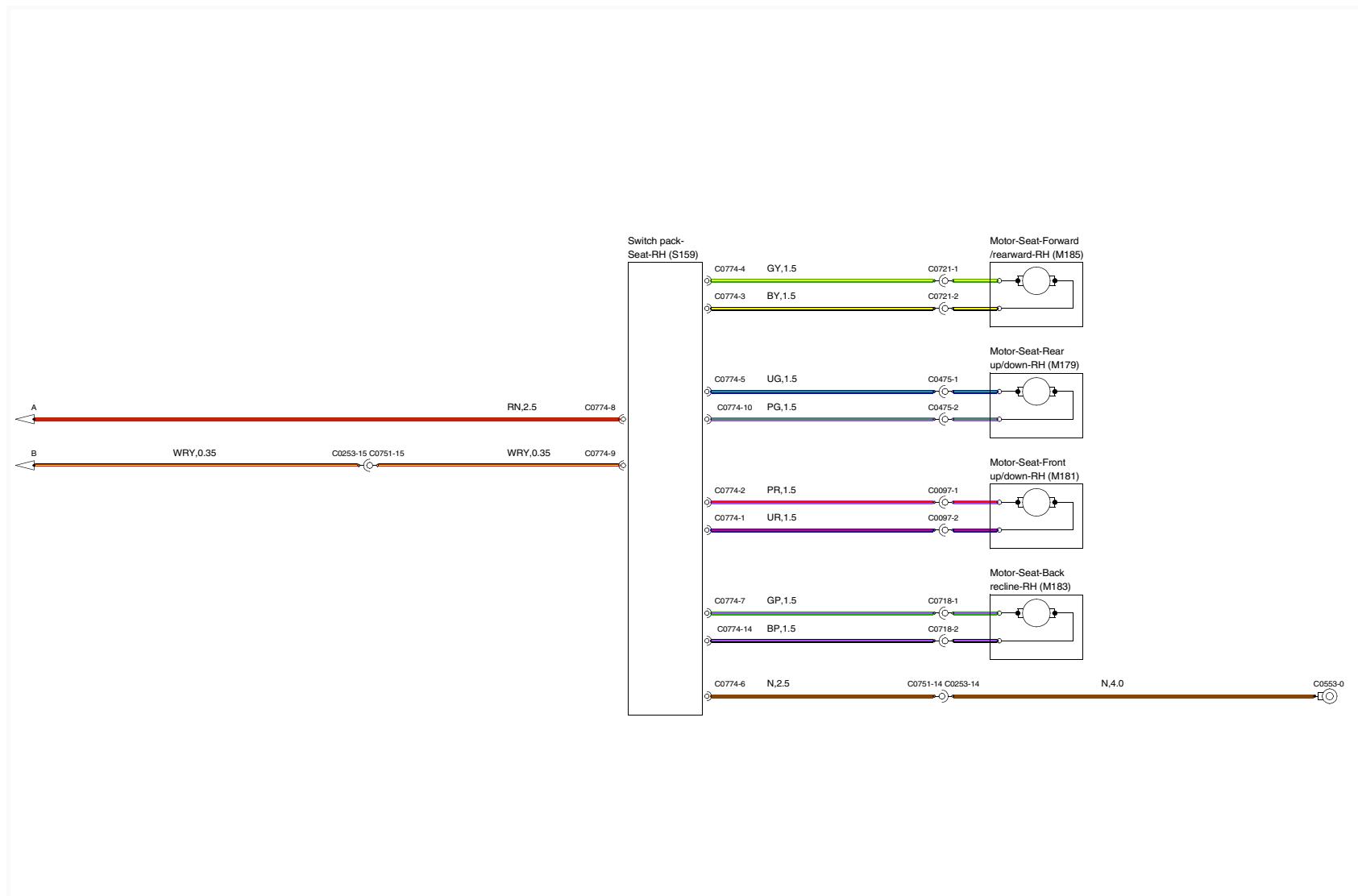


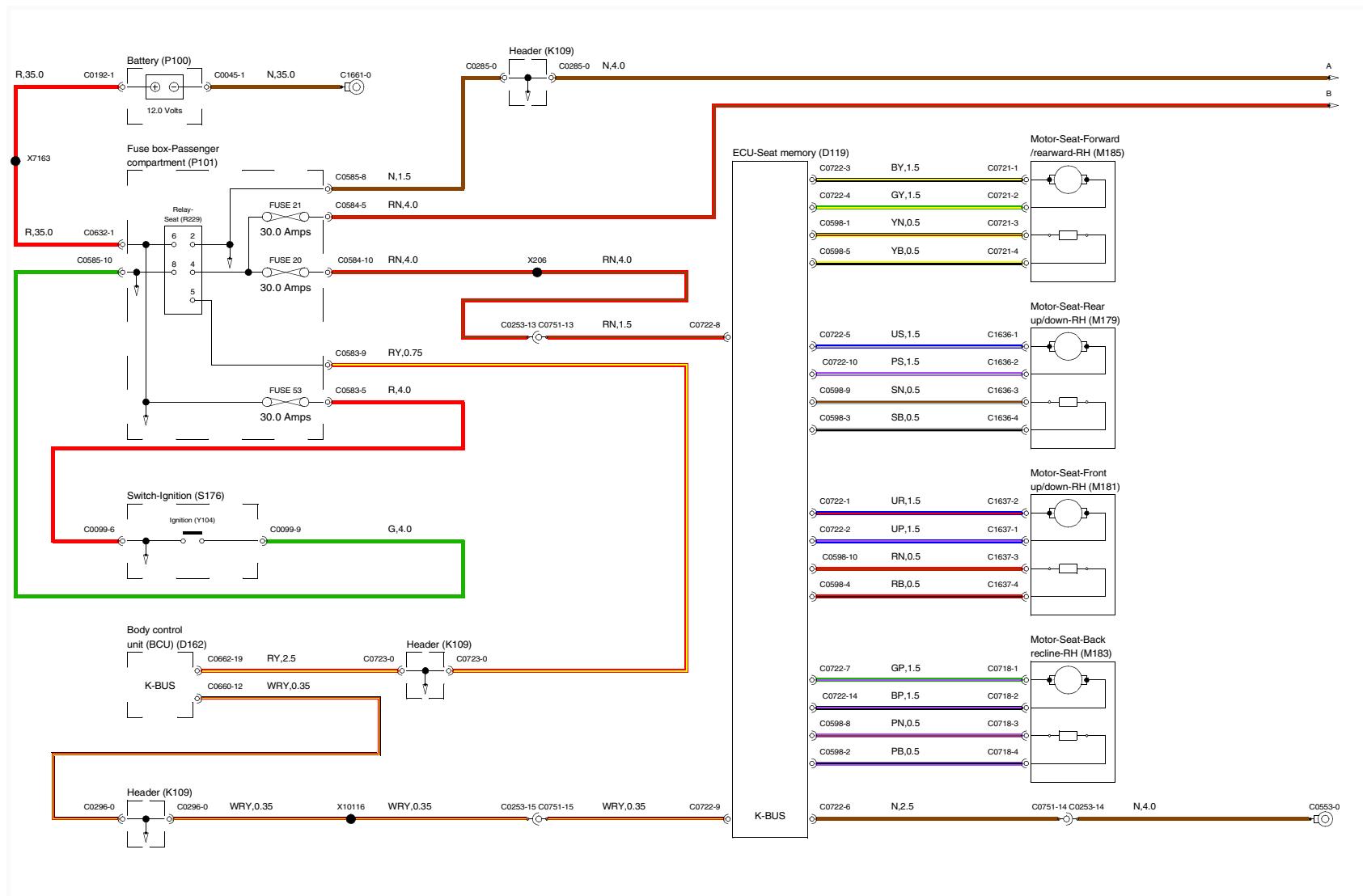


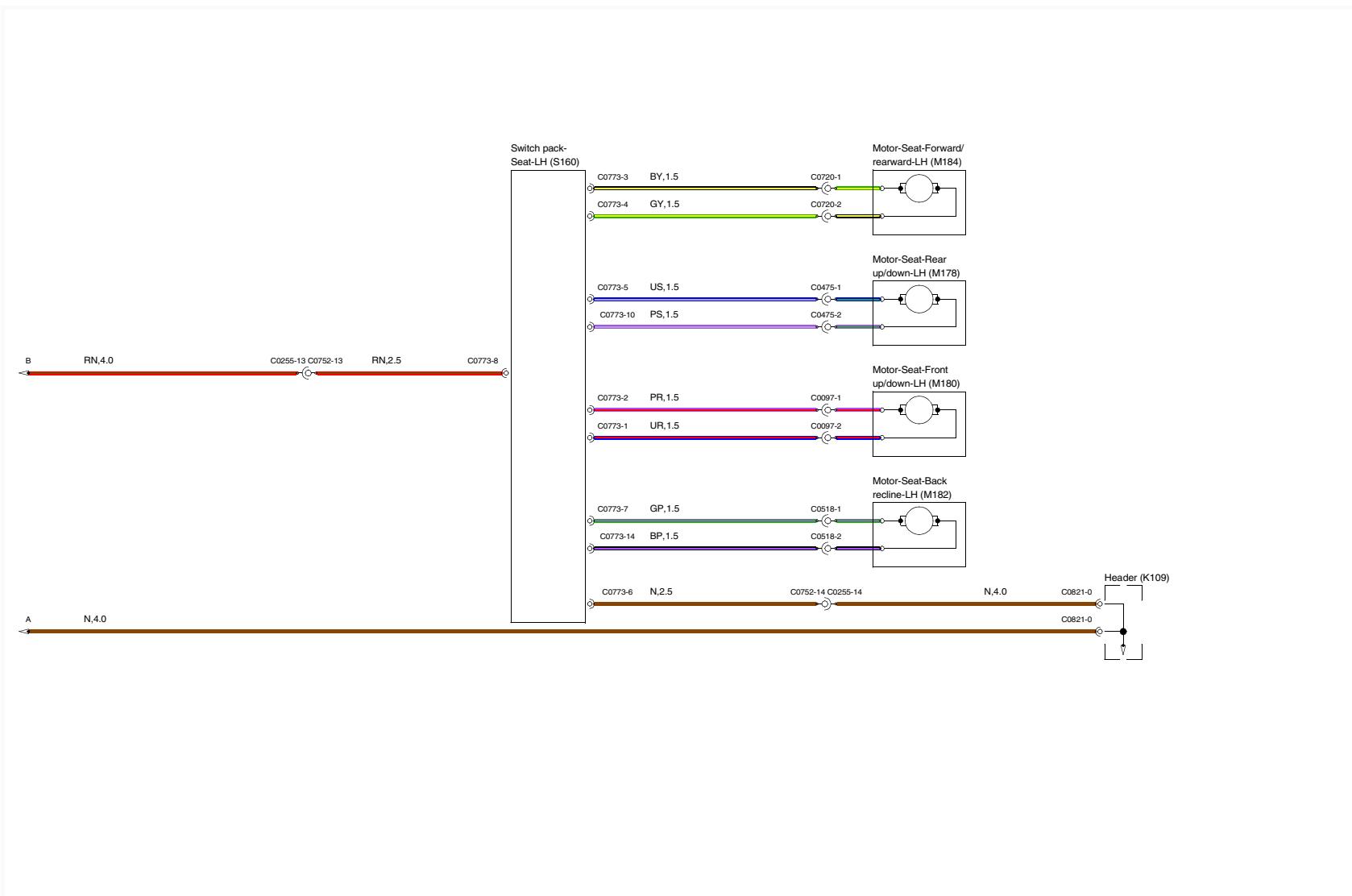


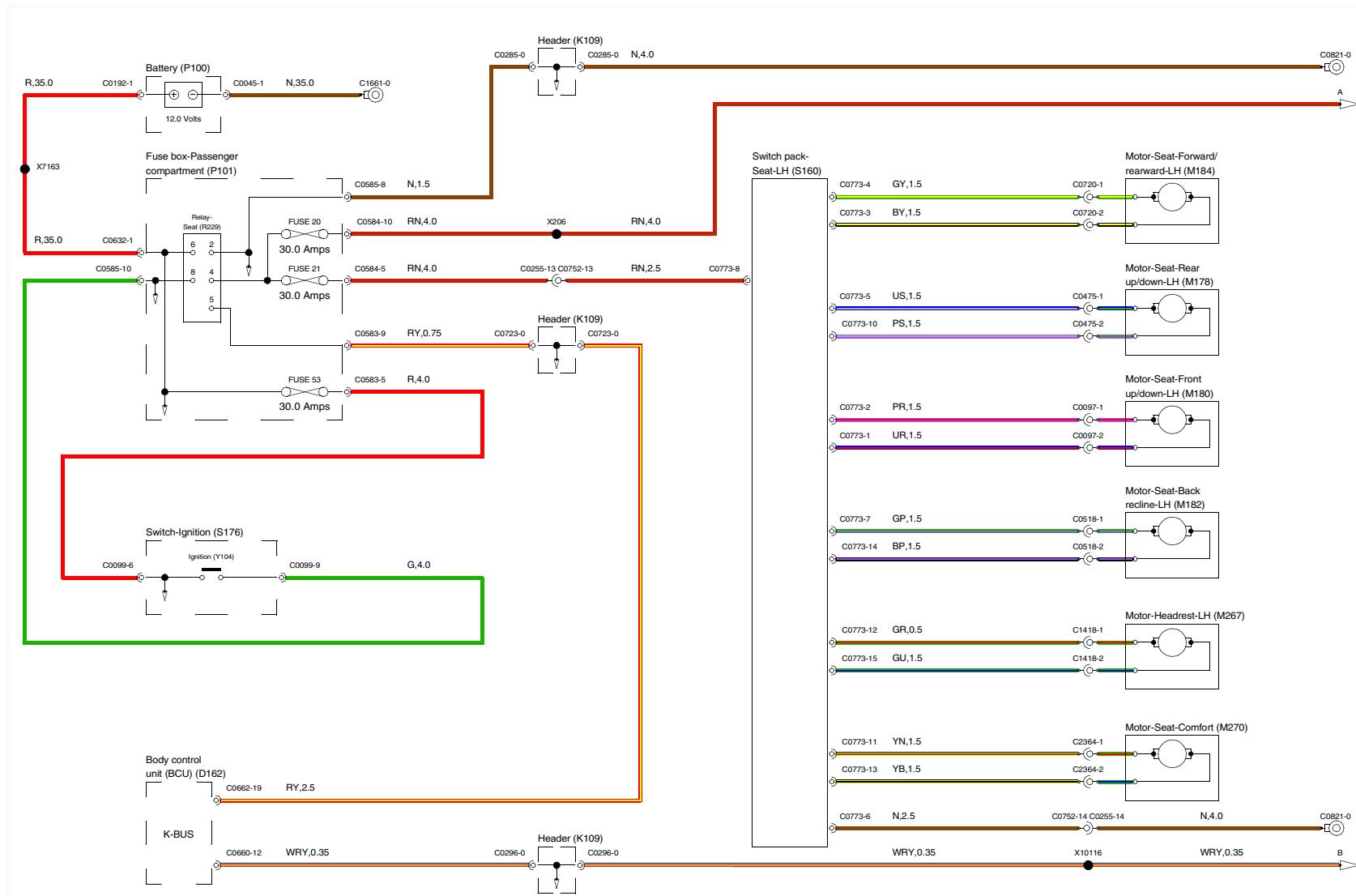


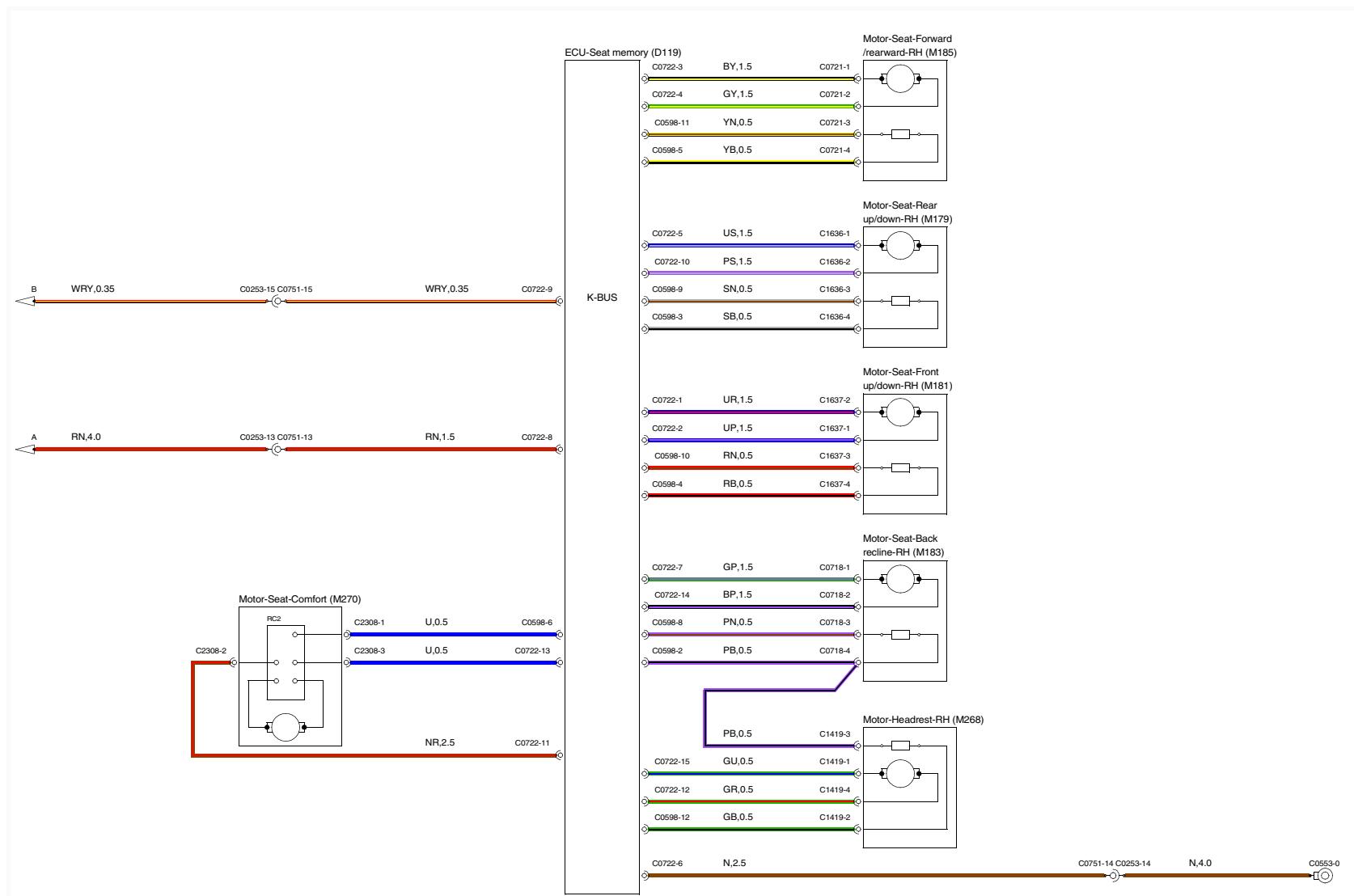


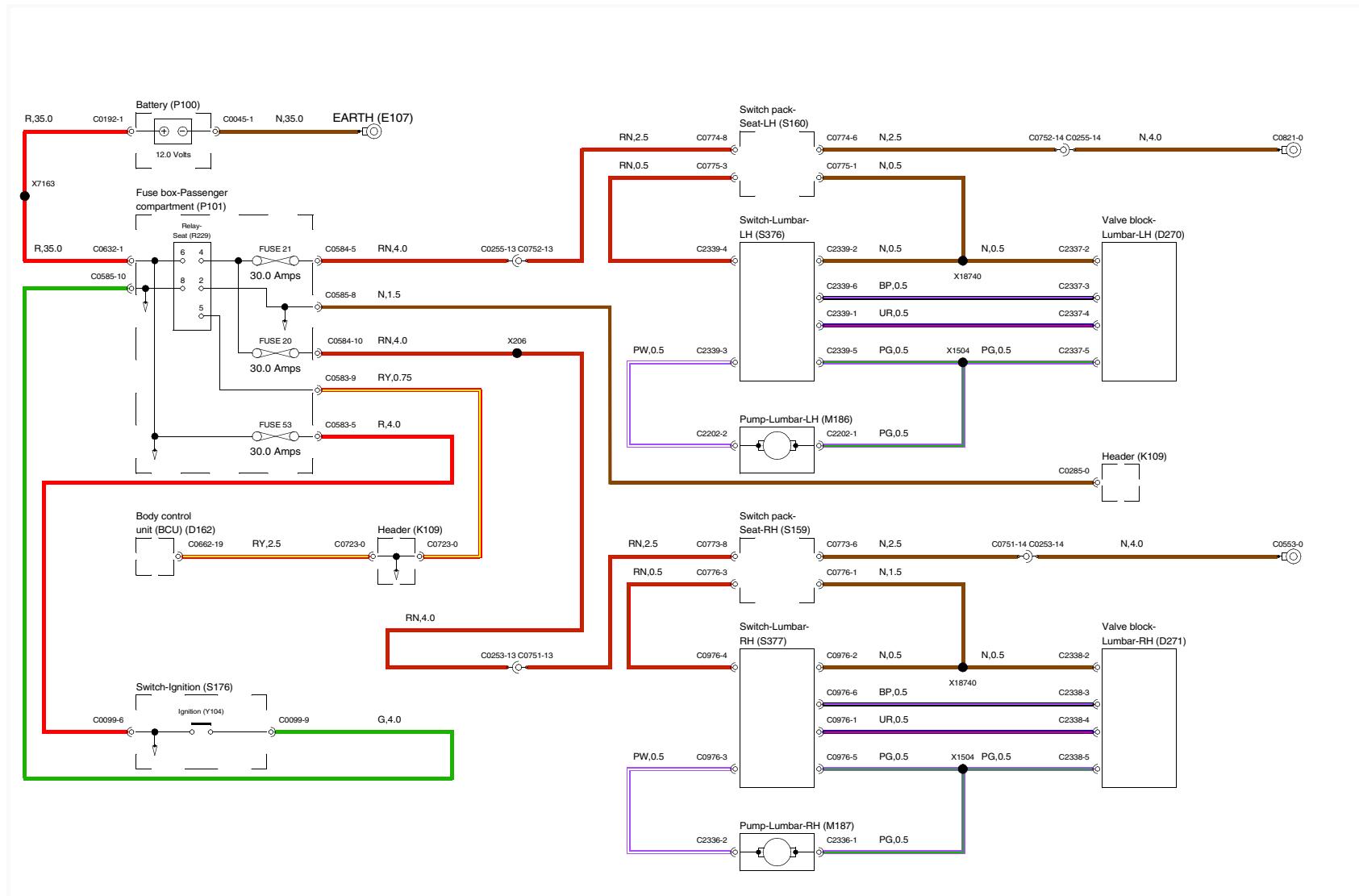


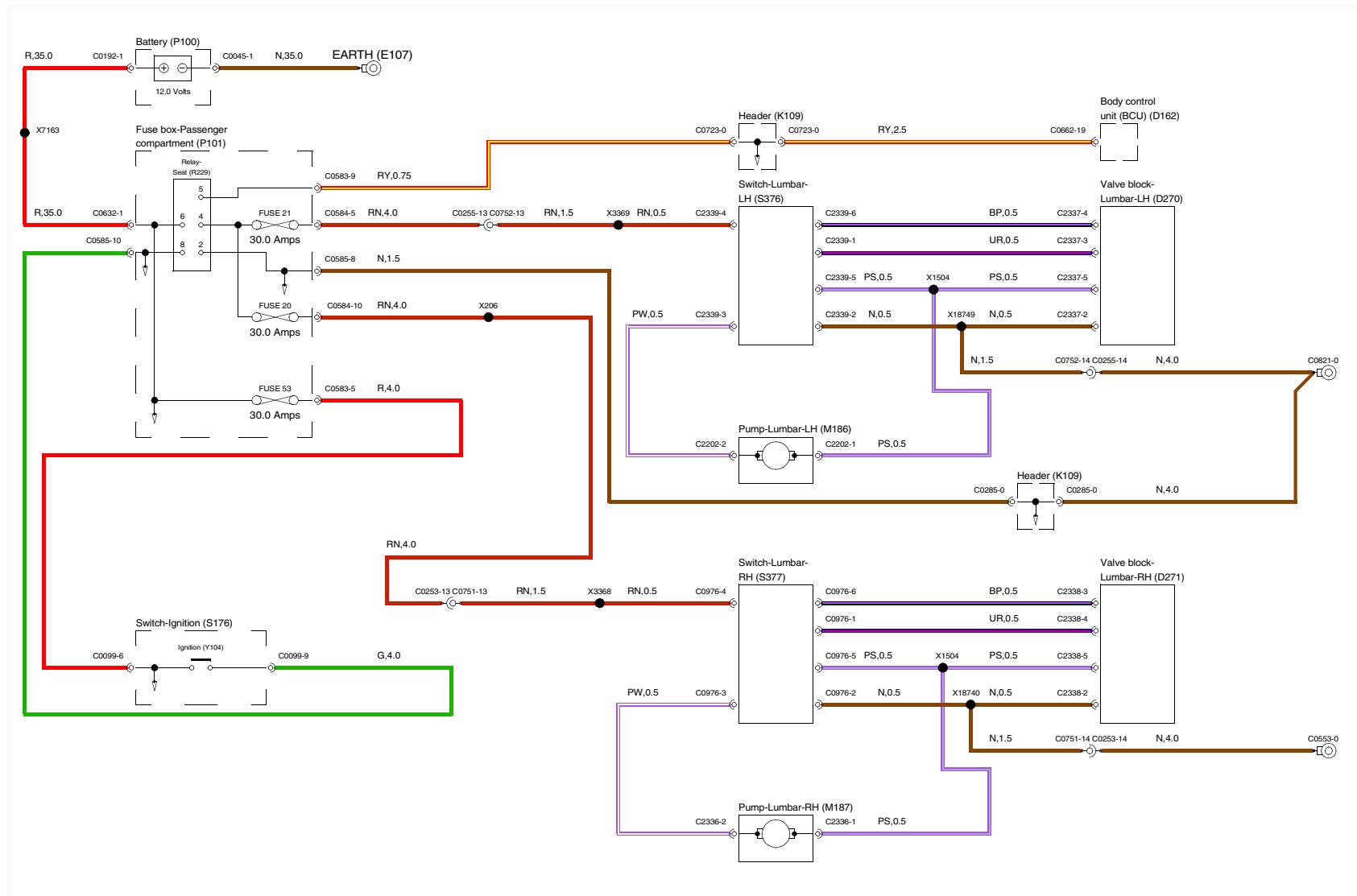


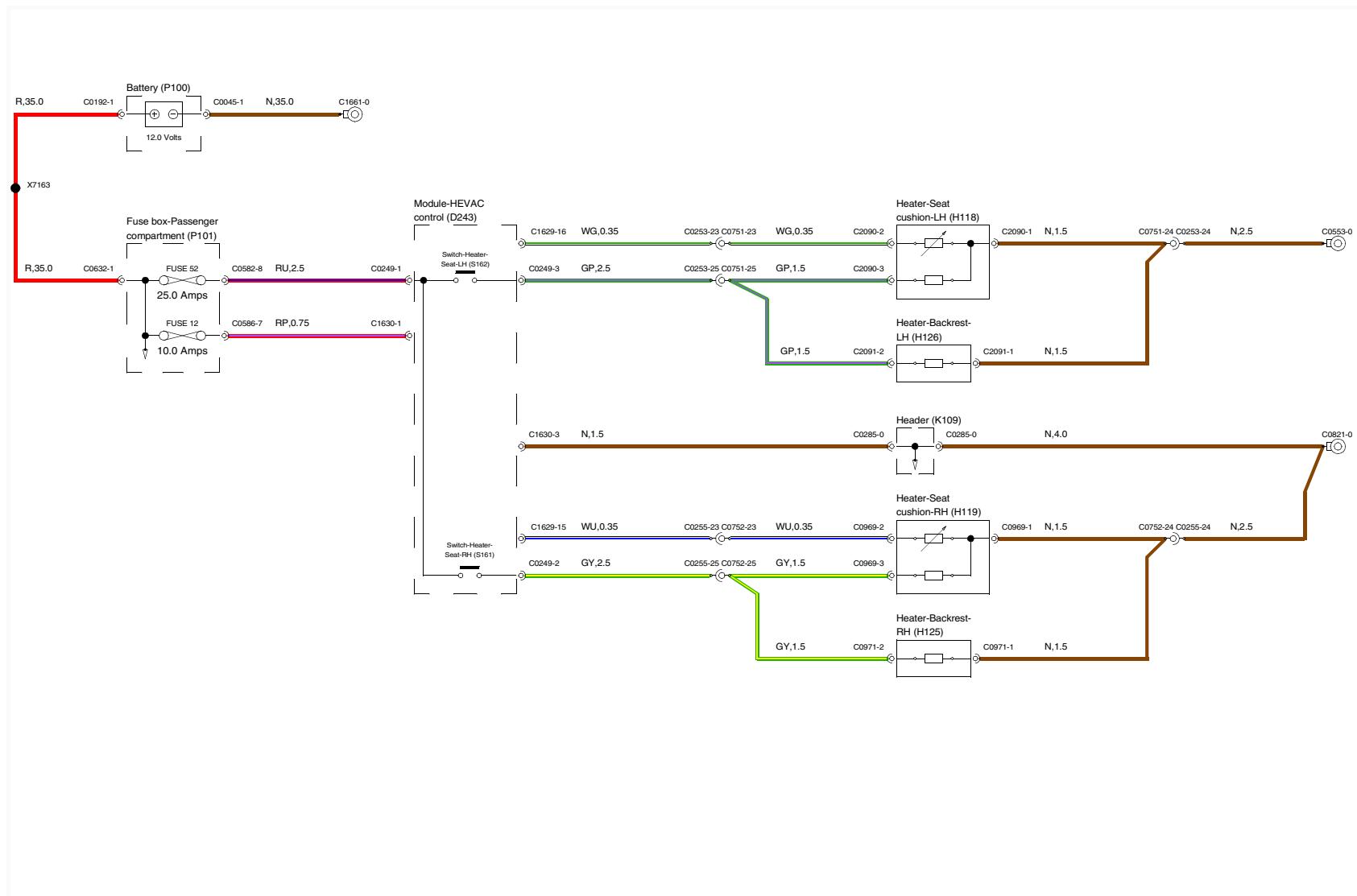






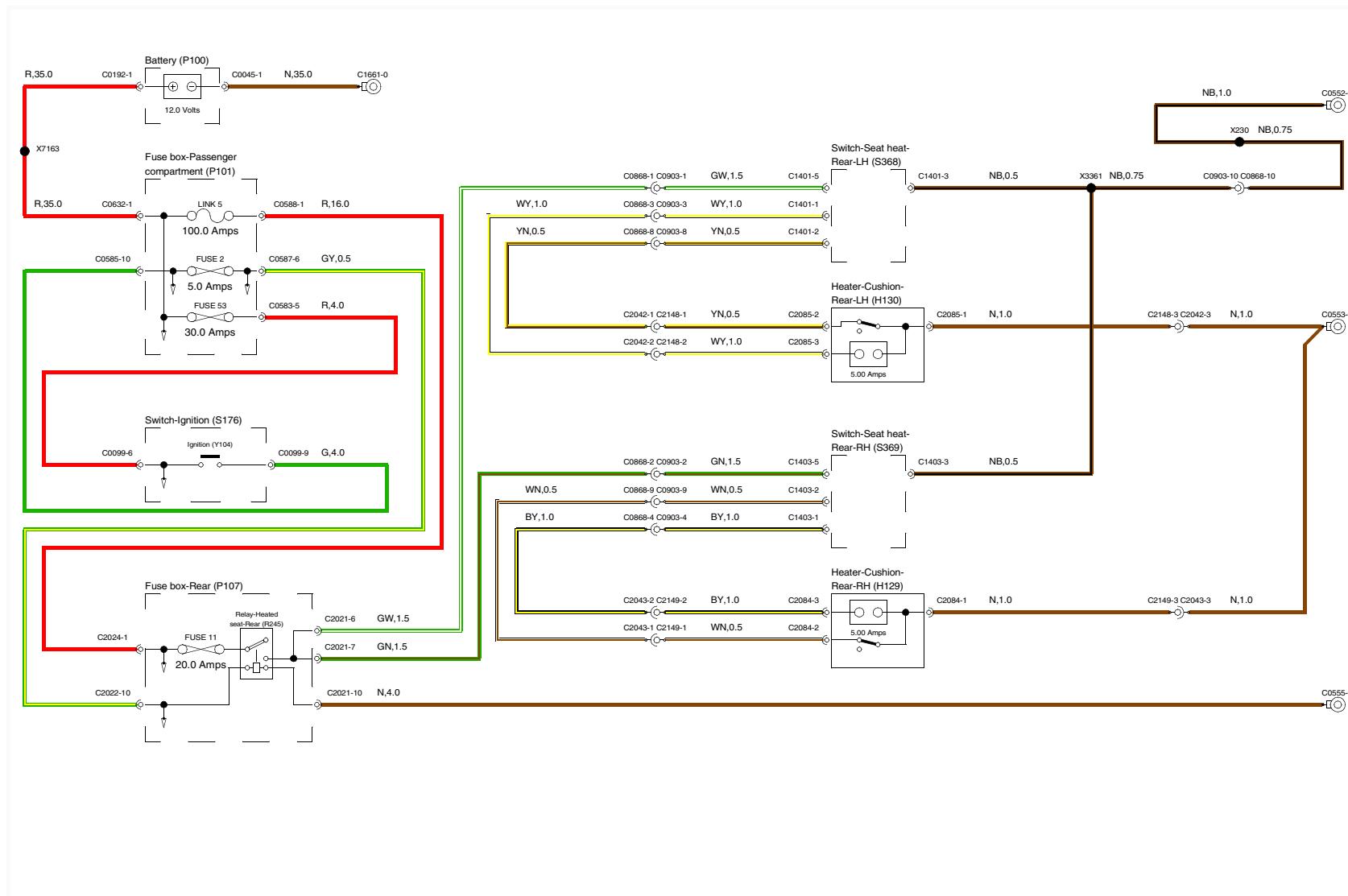






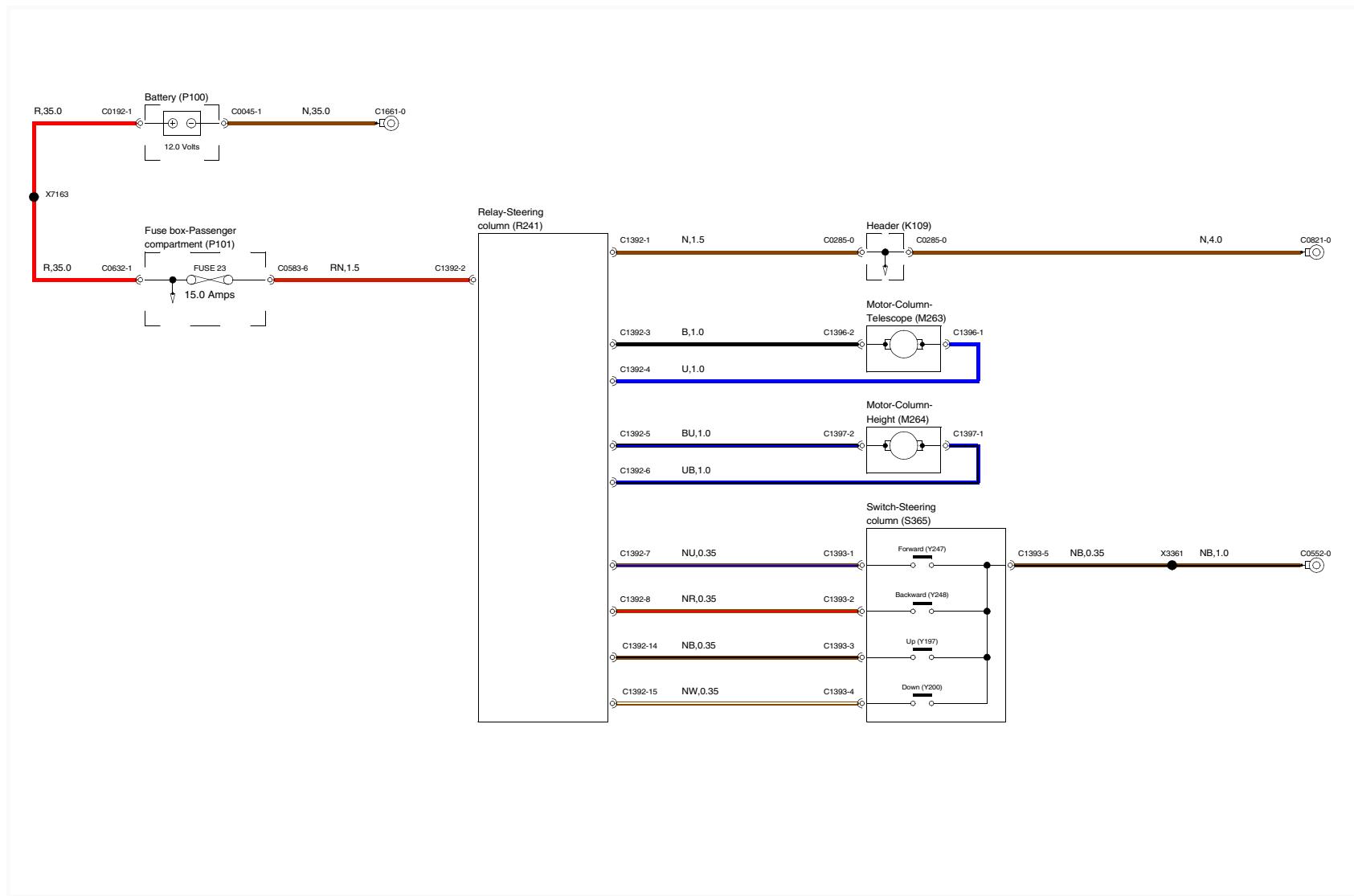
8 | SEATS

Heated - Front



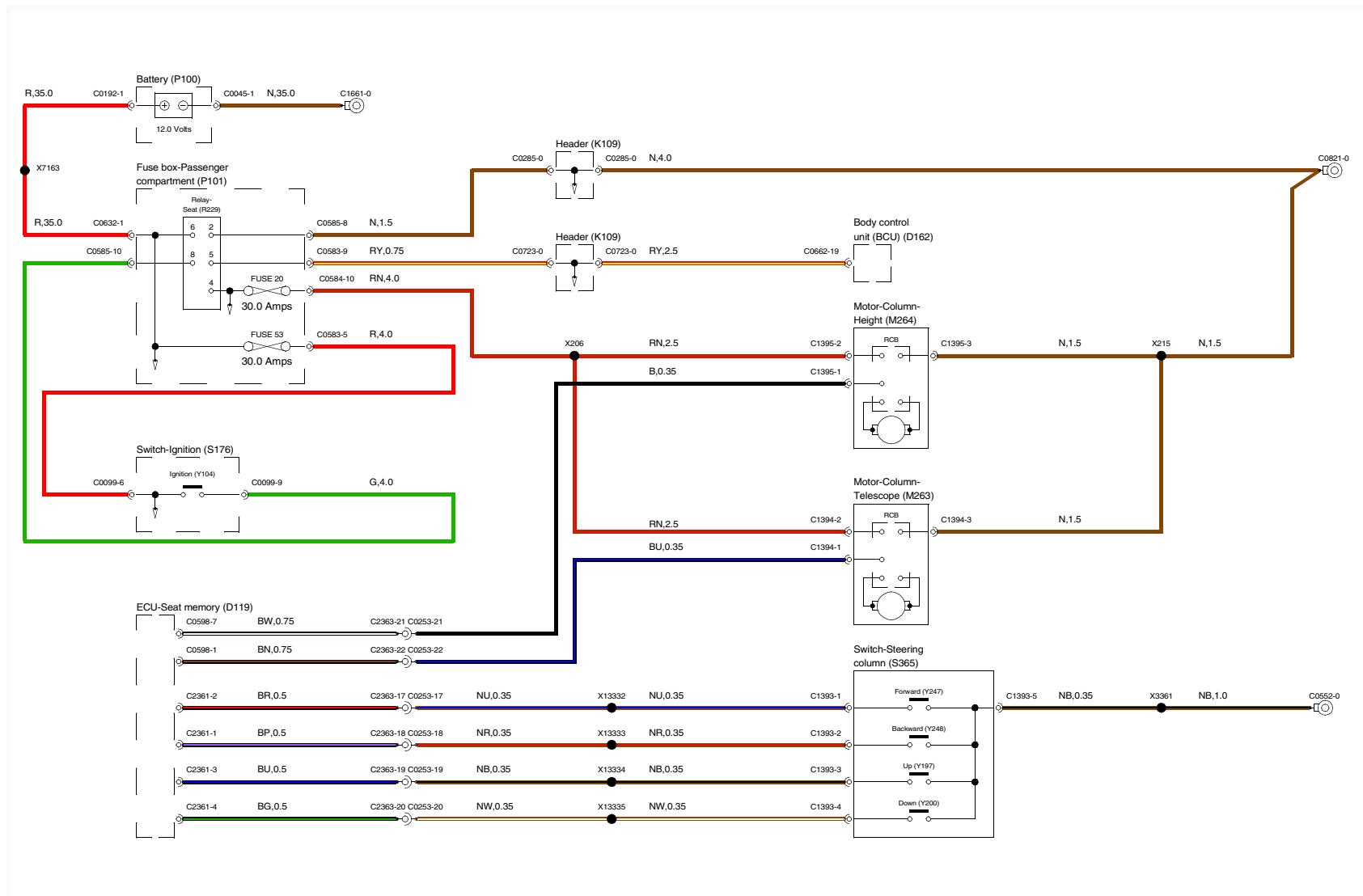
8 | SEATS

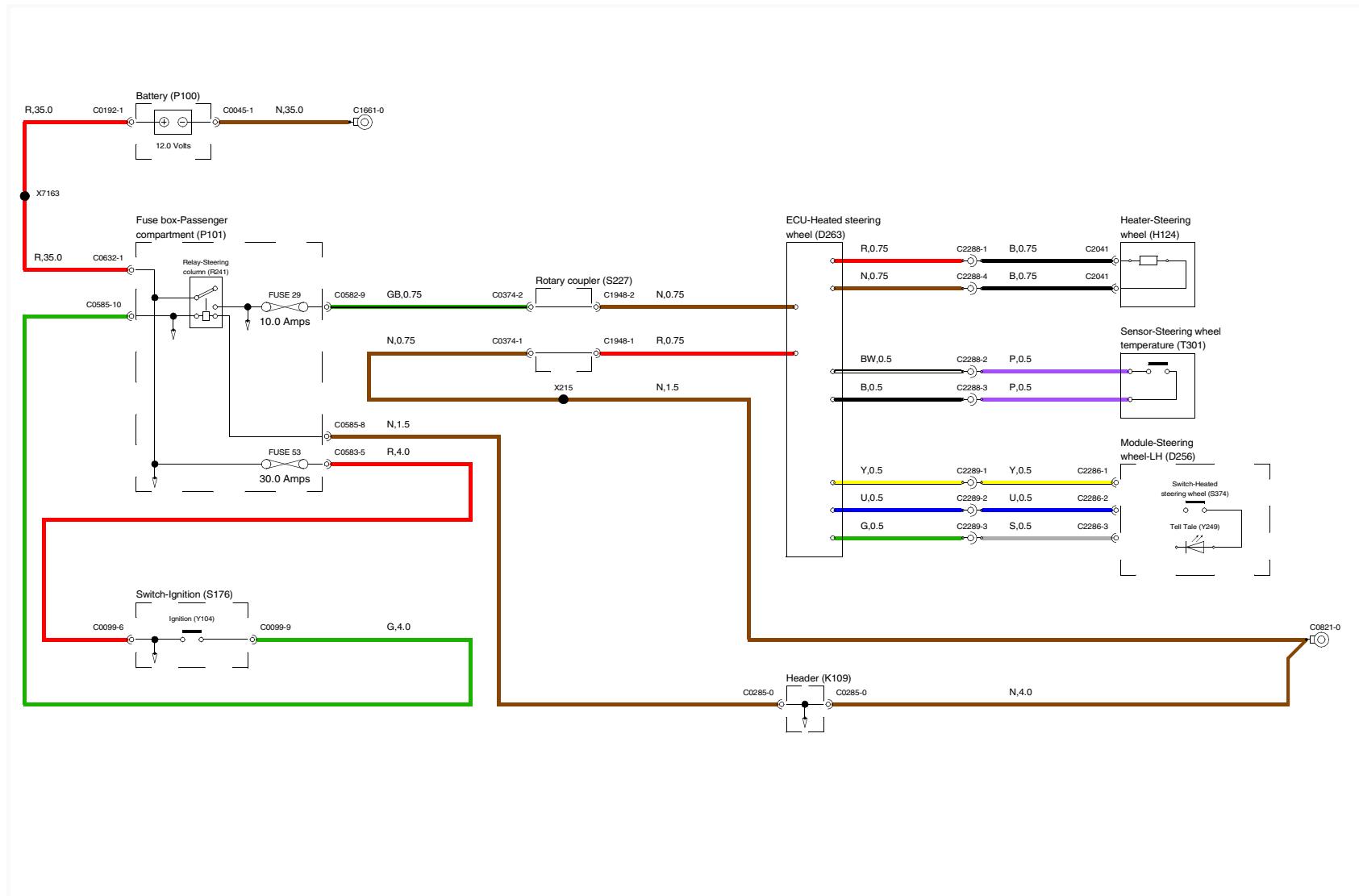
Heated - Rear



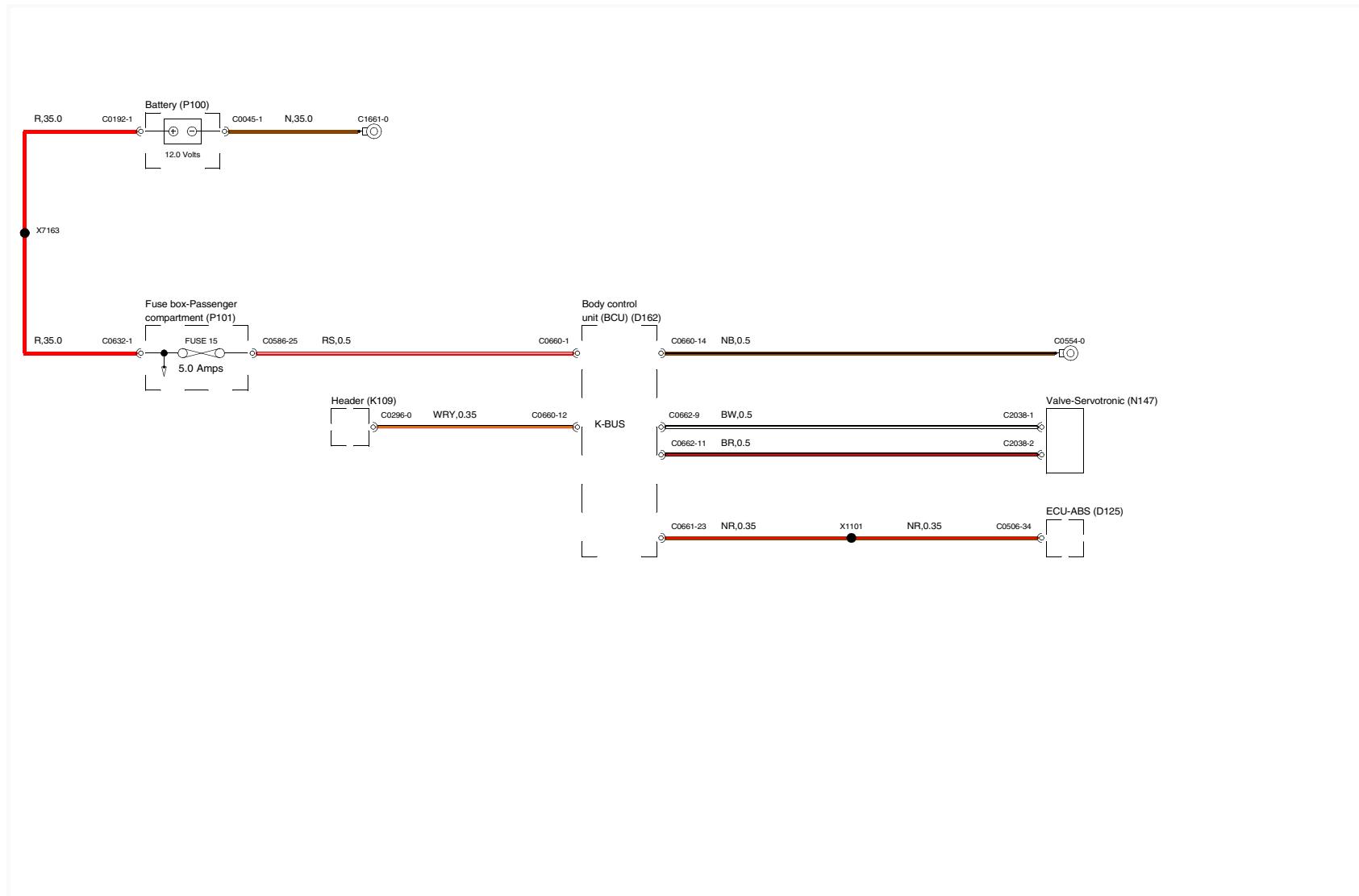
9 STEERING WHEEL

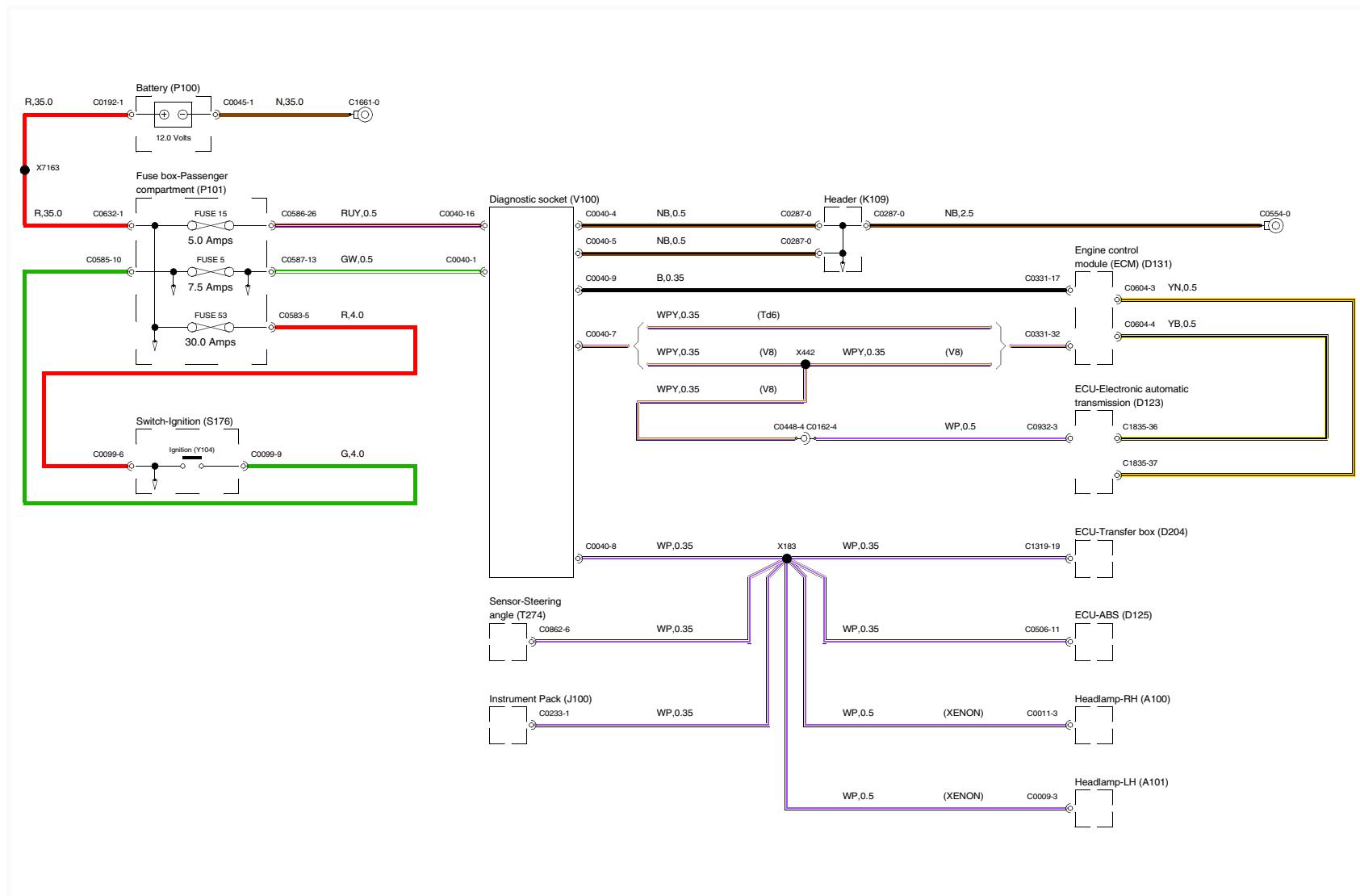
Adjustable - Memory



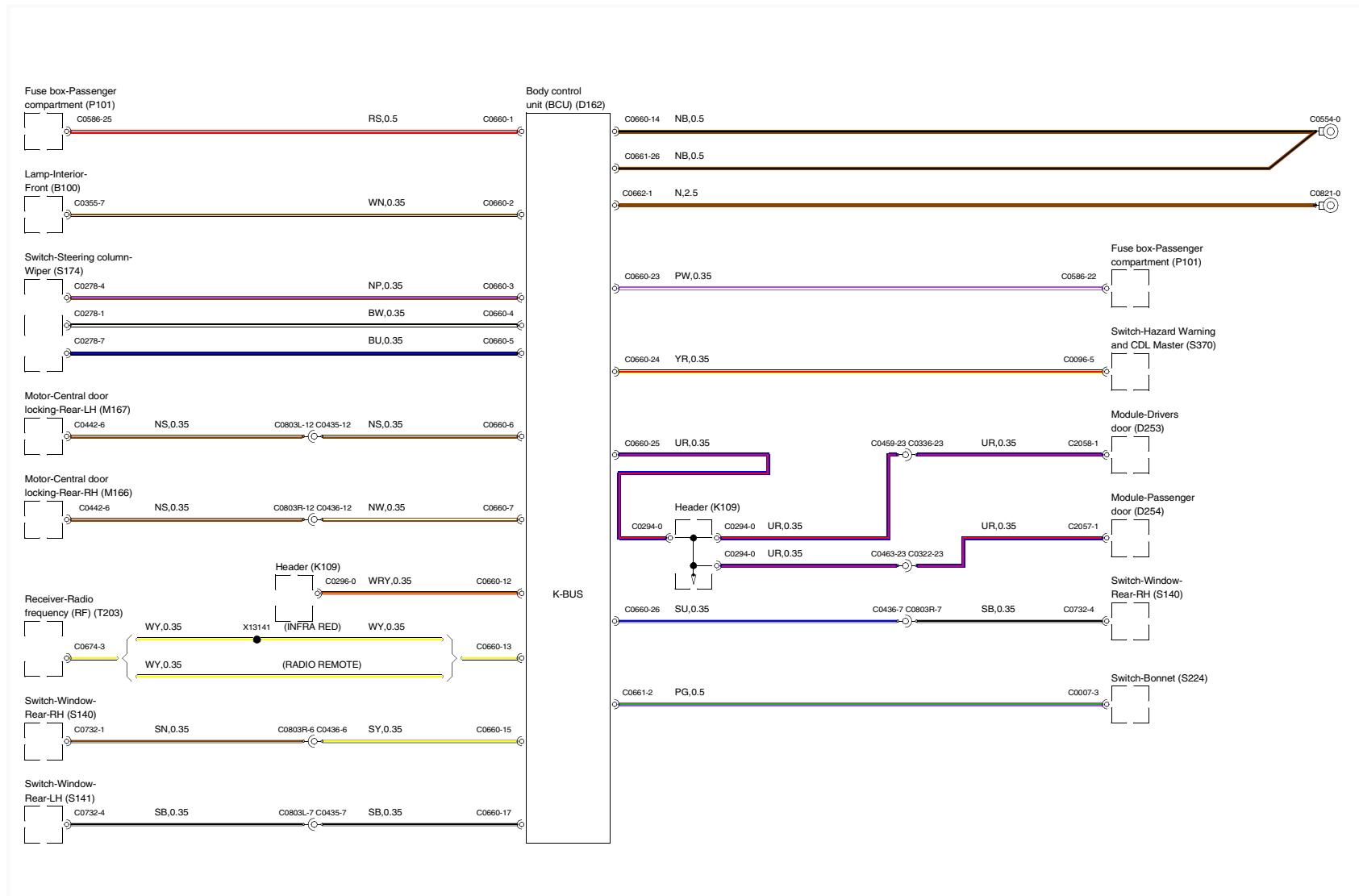


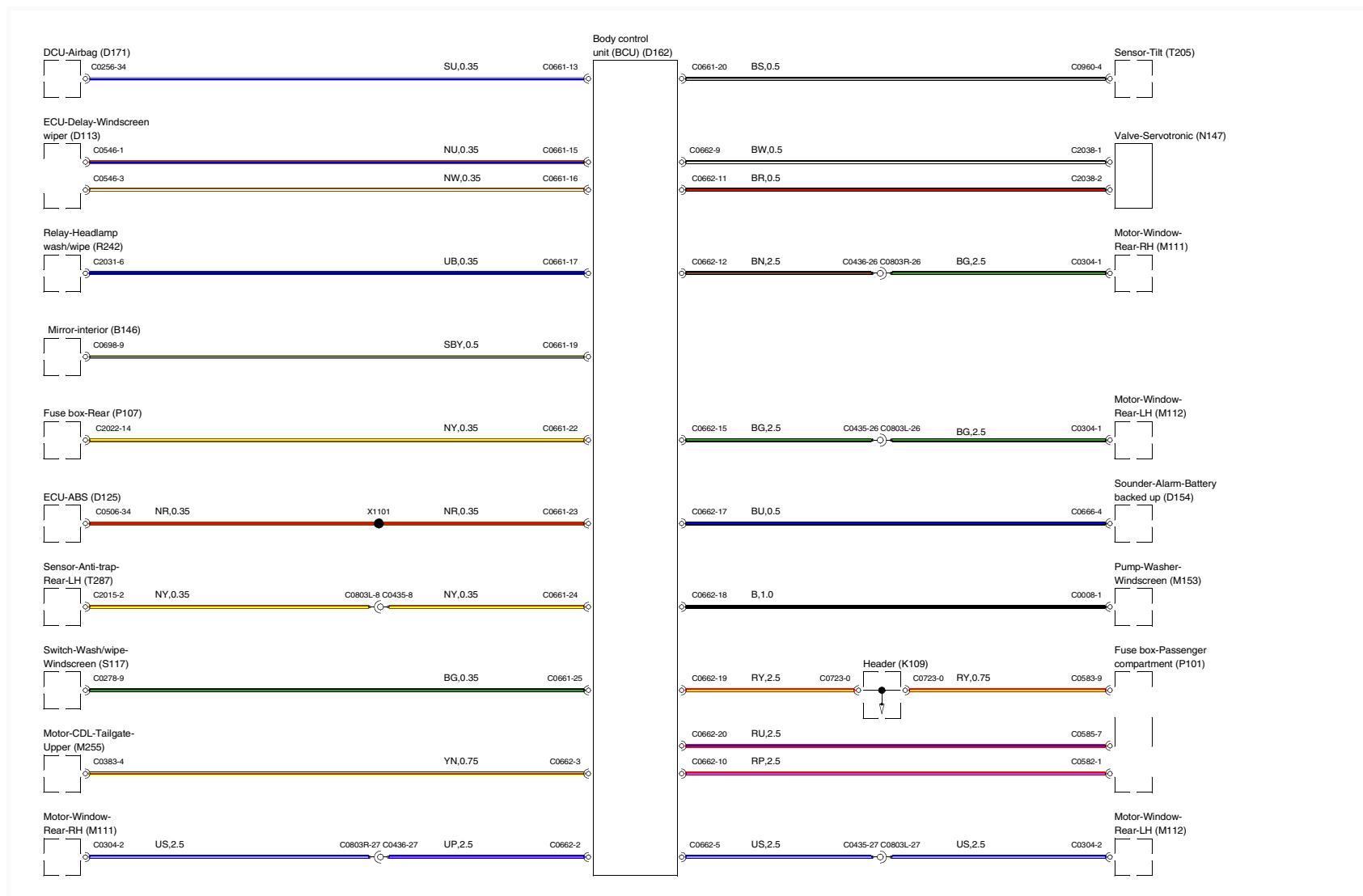
9 STEERING



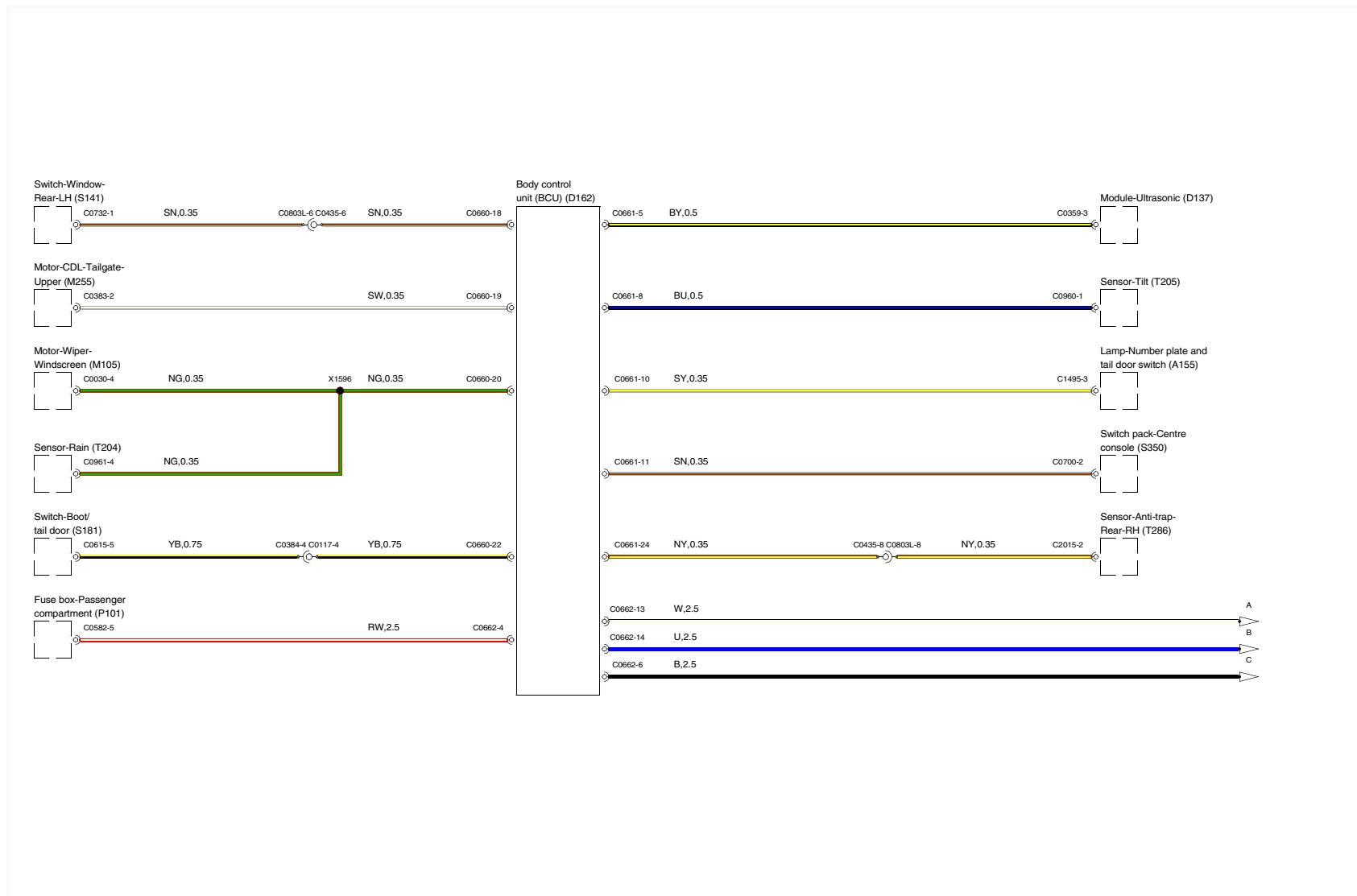


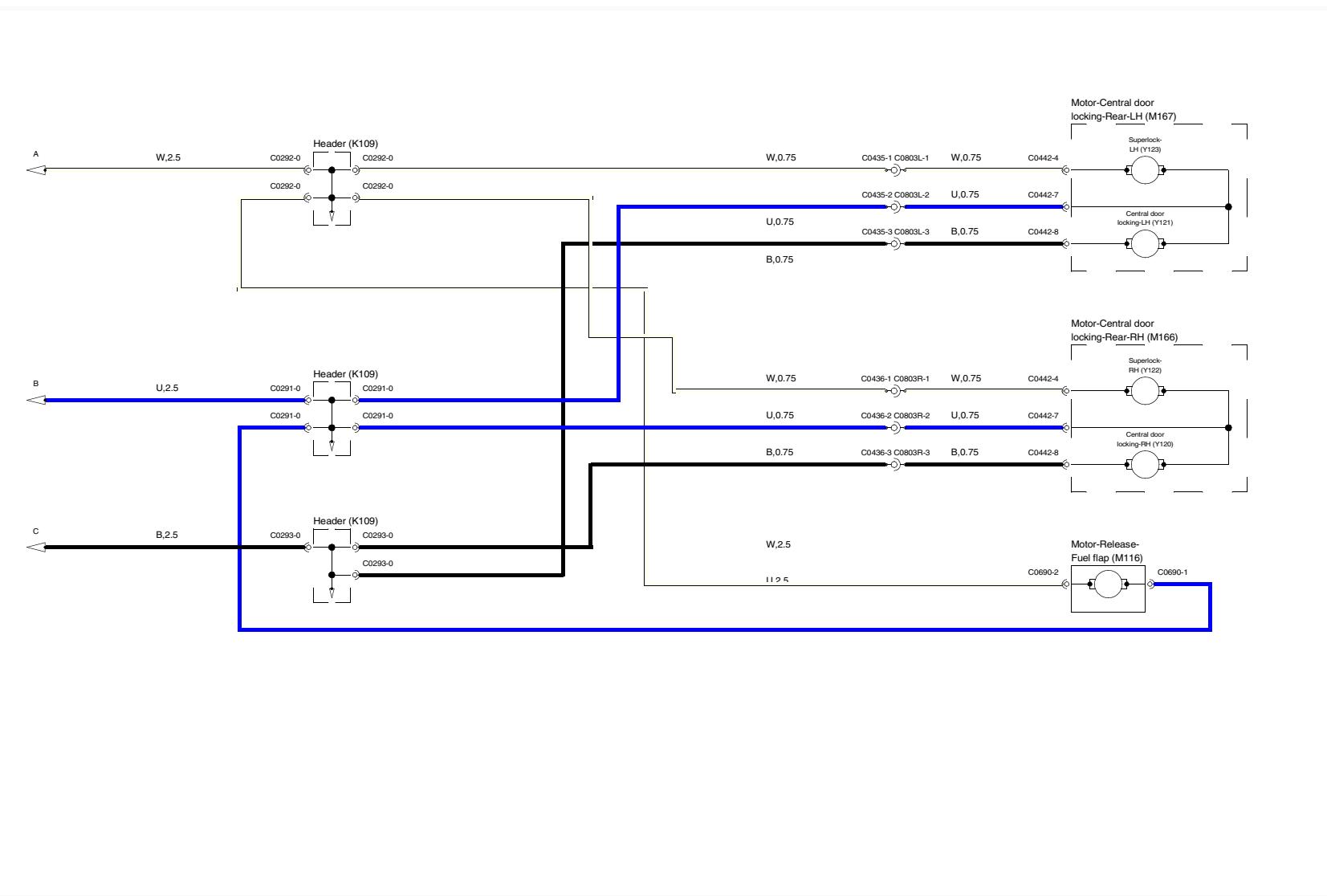
11 BODY CONTROL UNIT

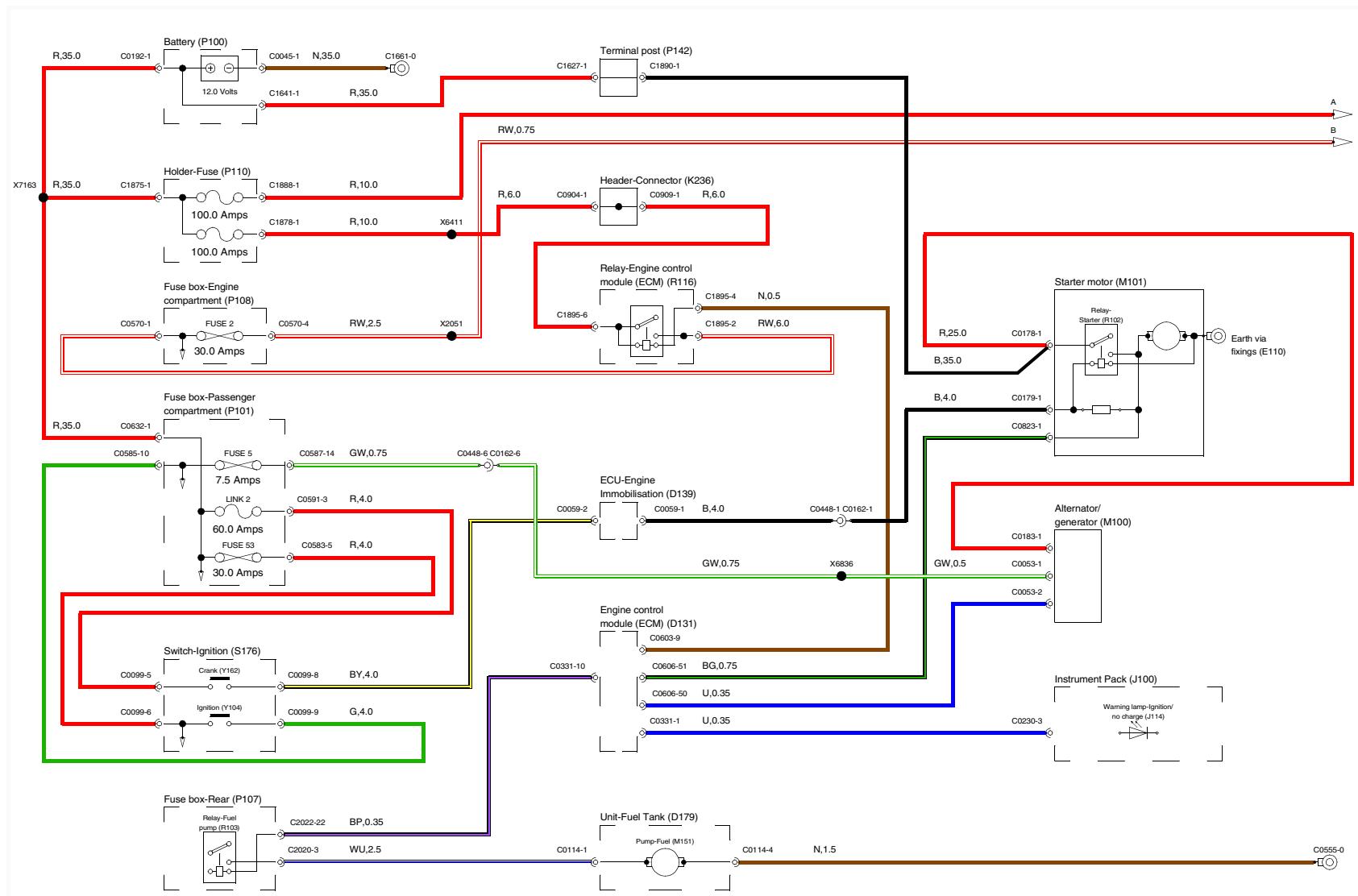


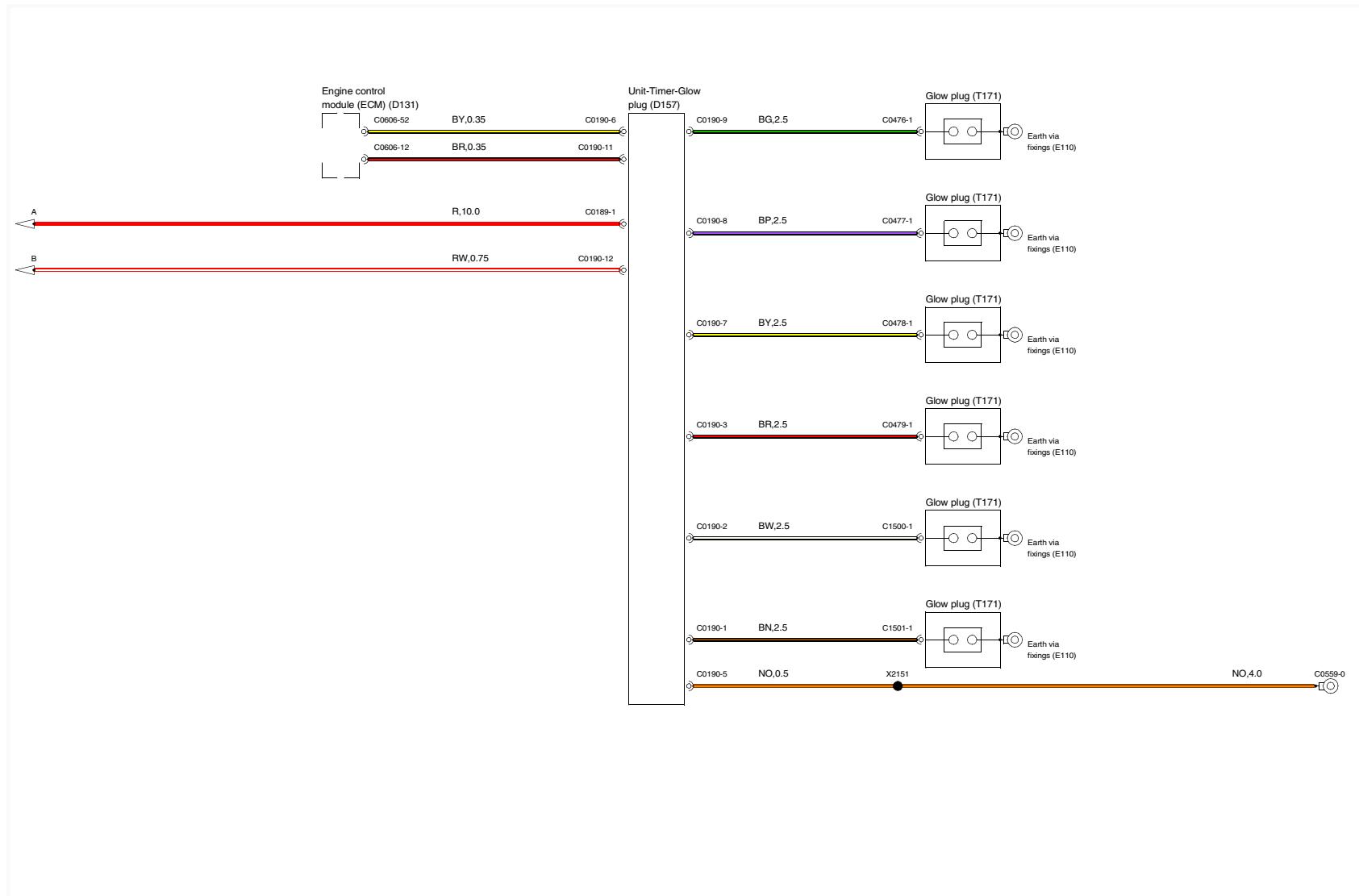


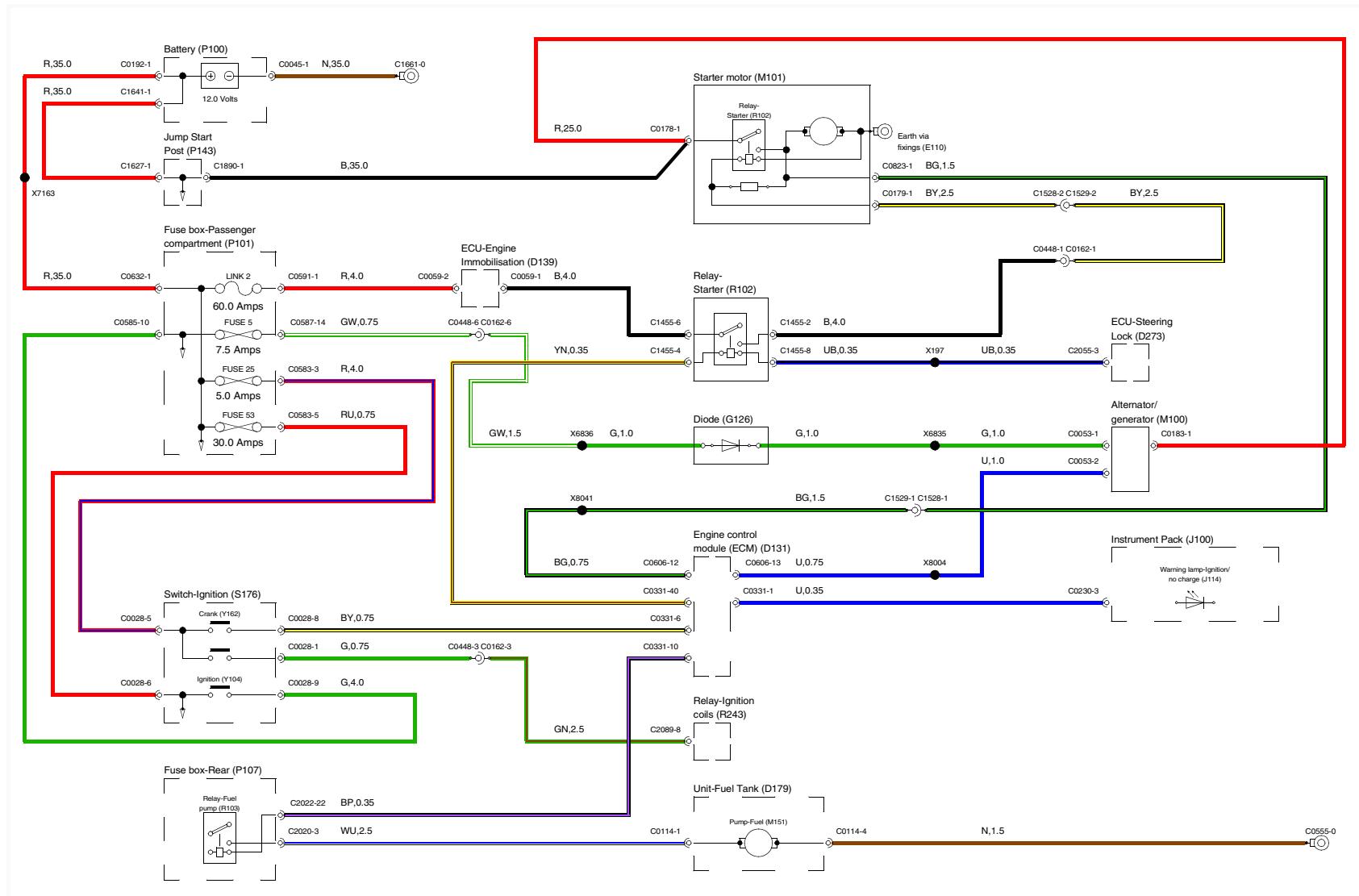
11 BODY CONTROL UNIT

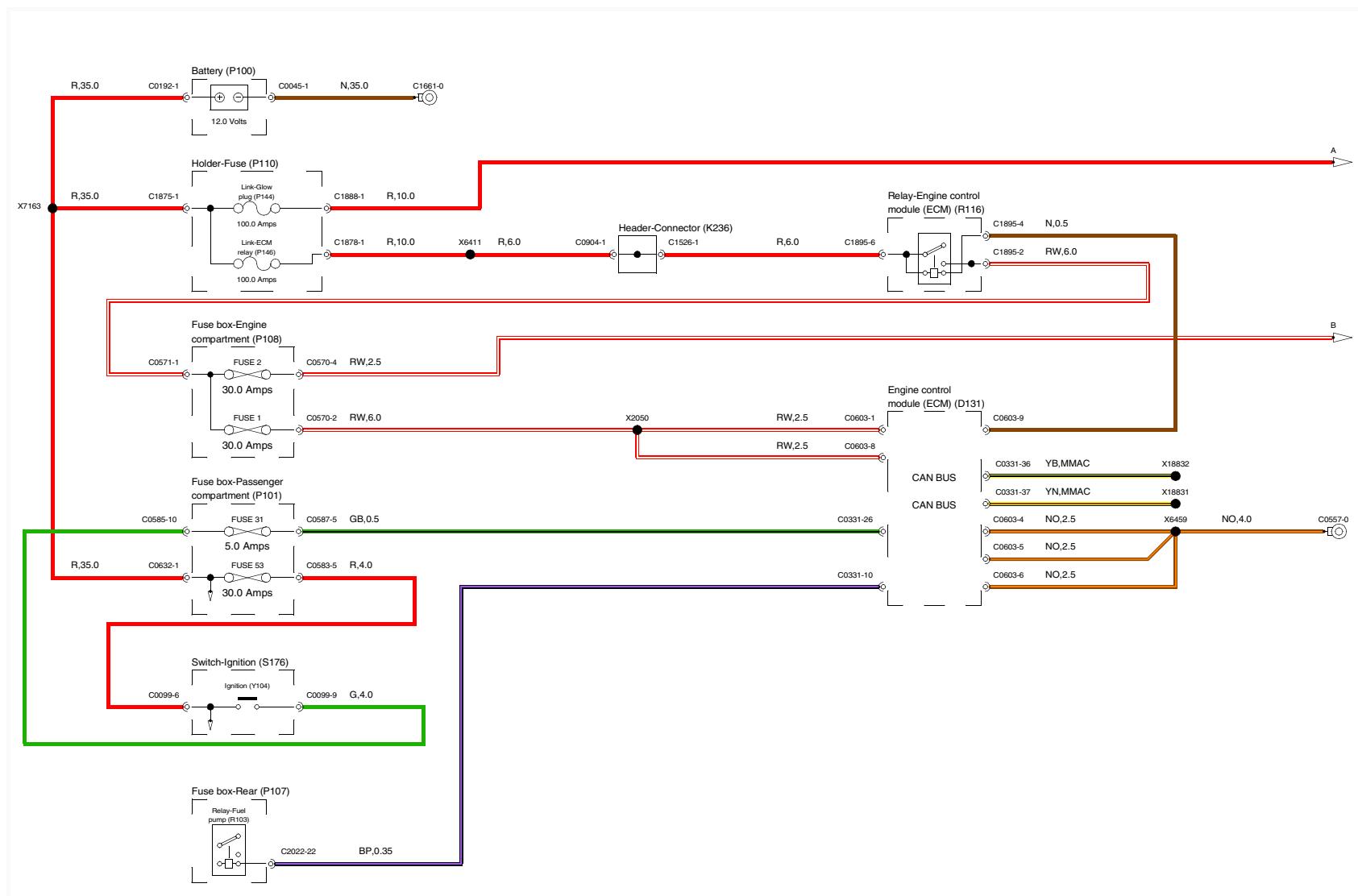


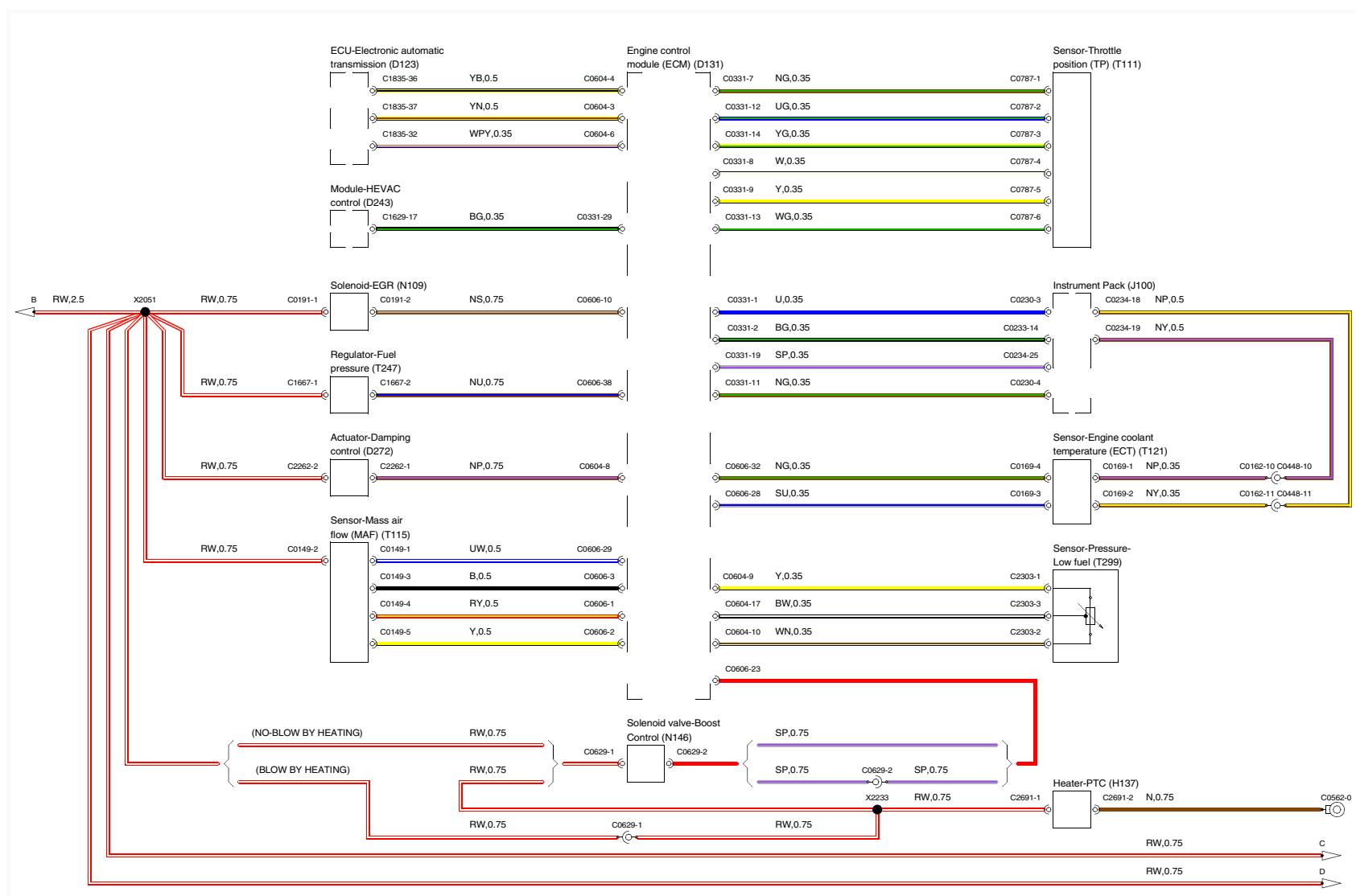


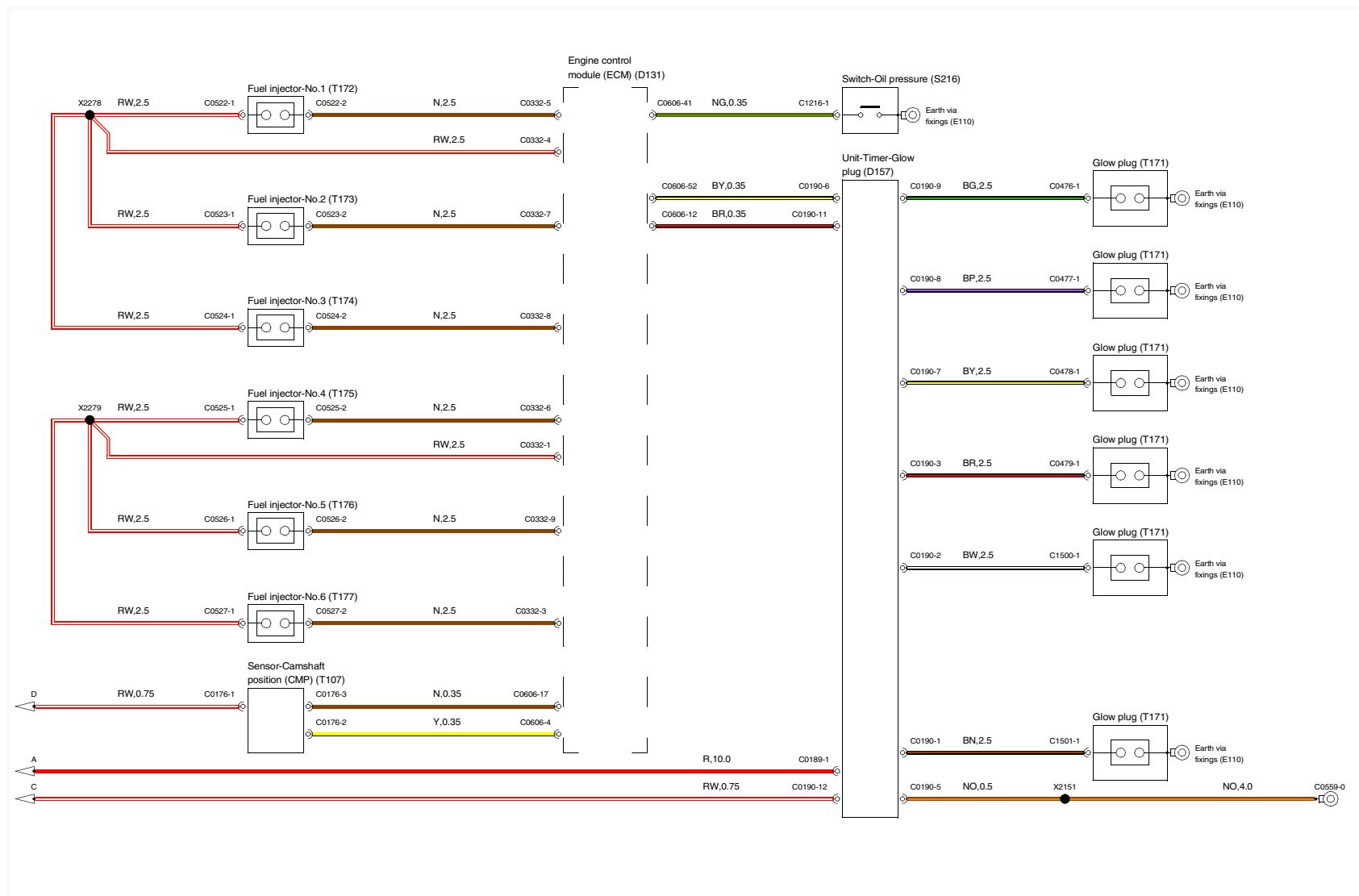


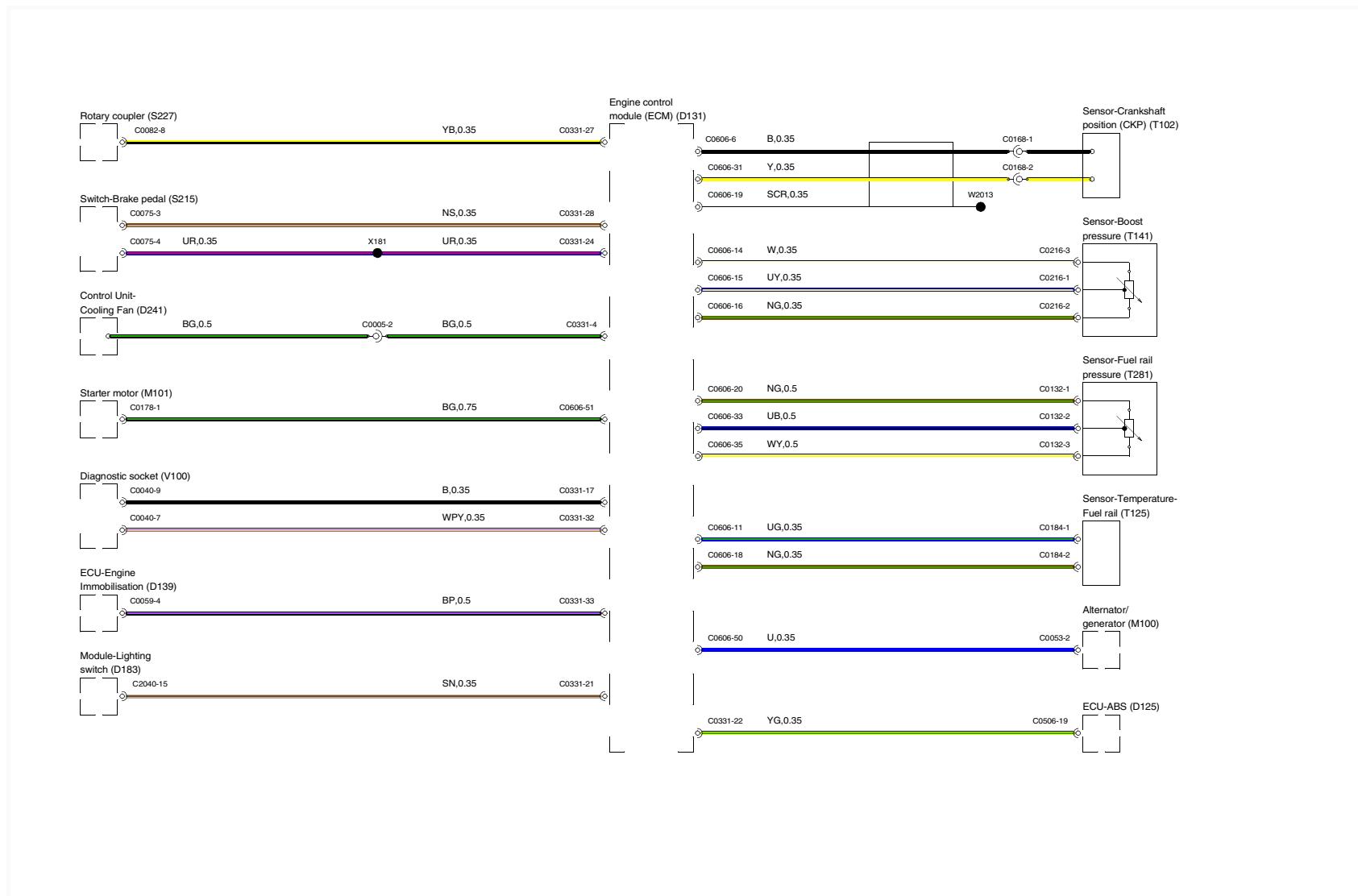


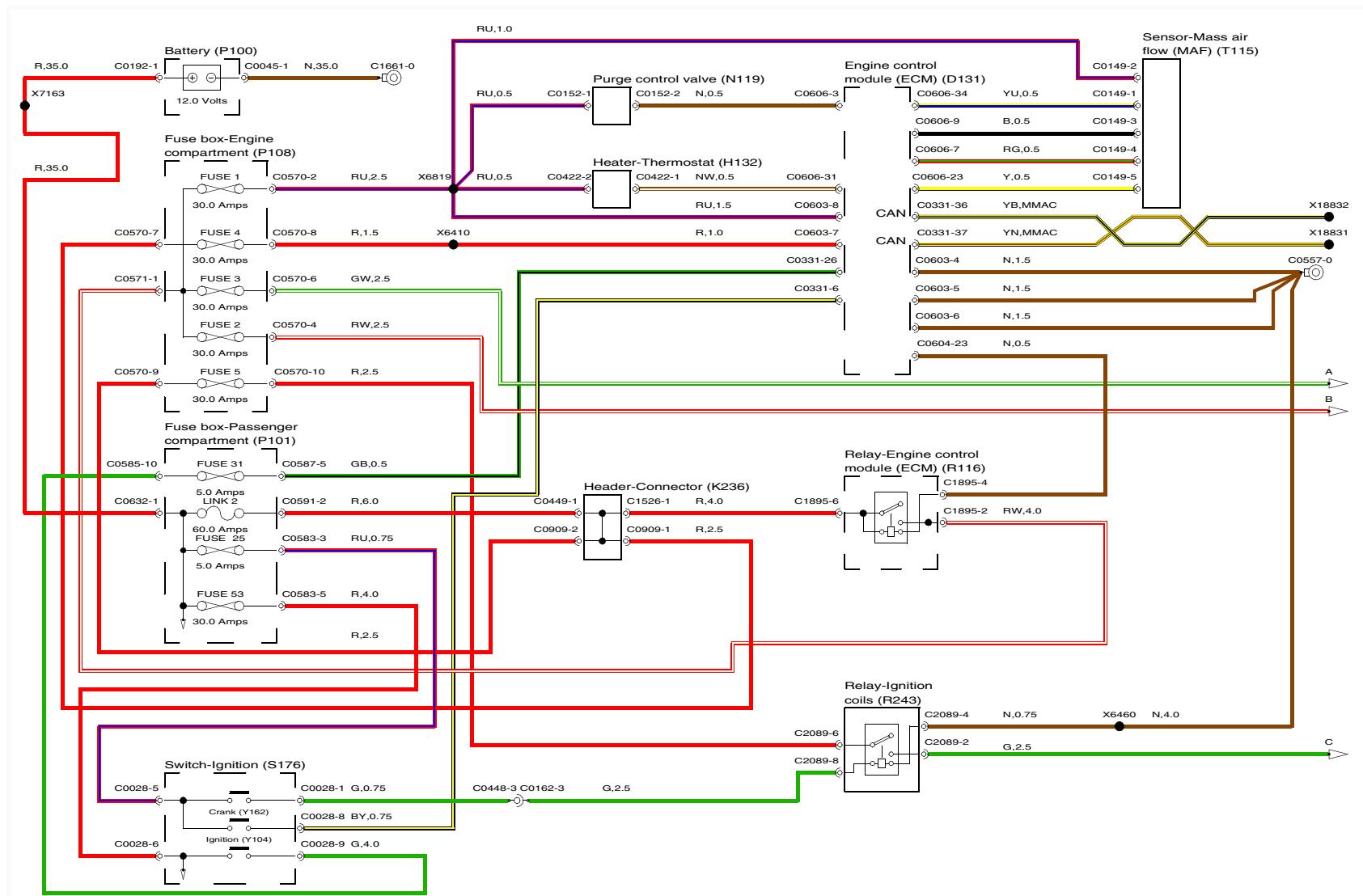


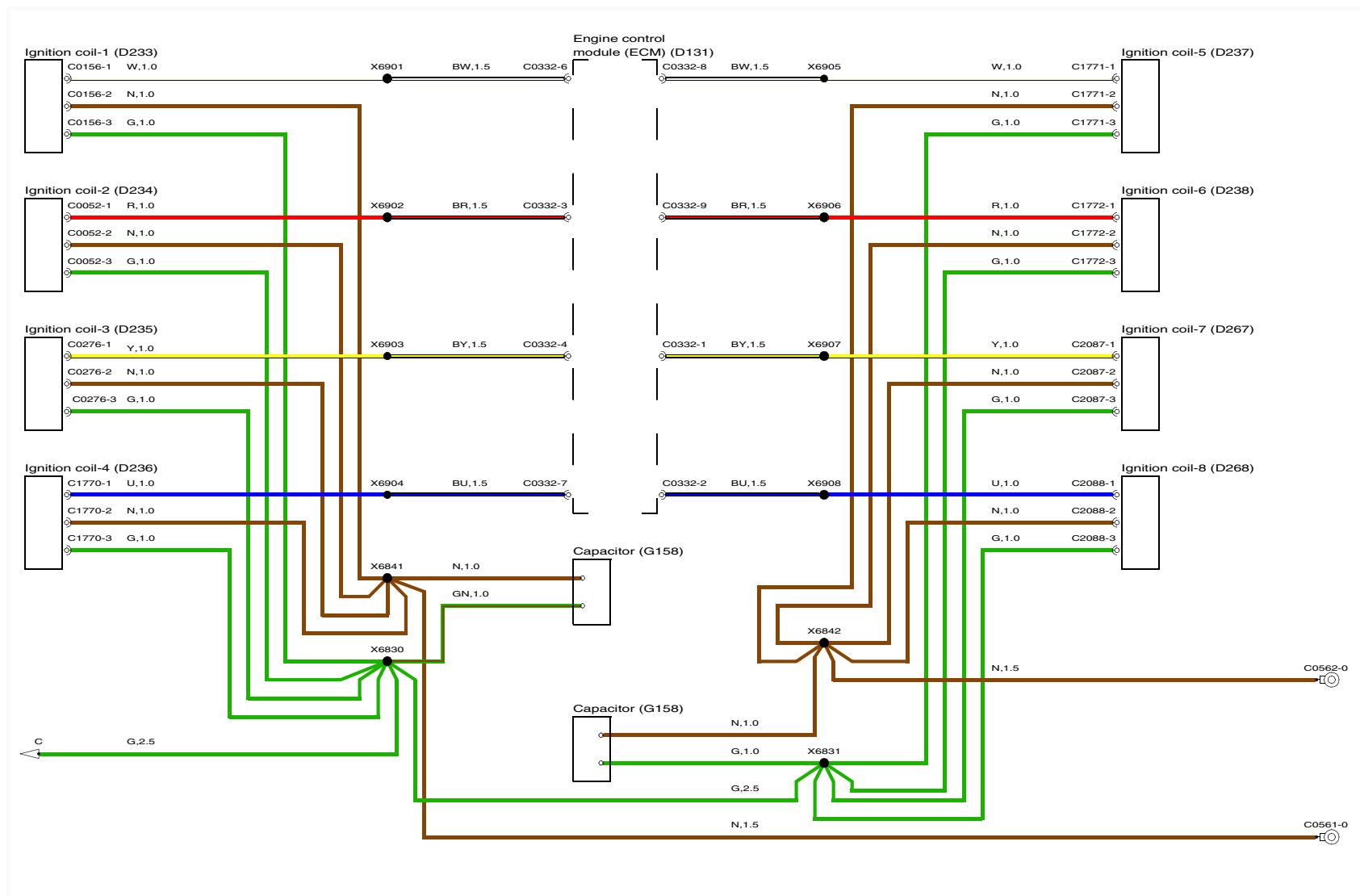


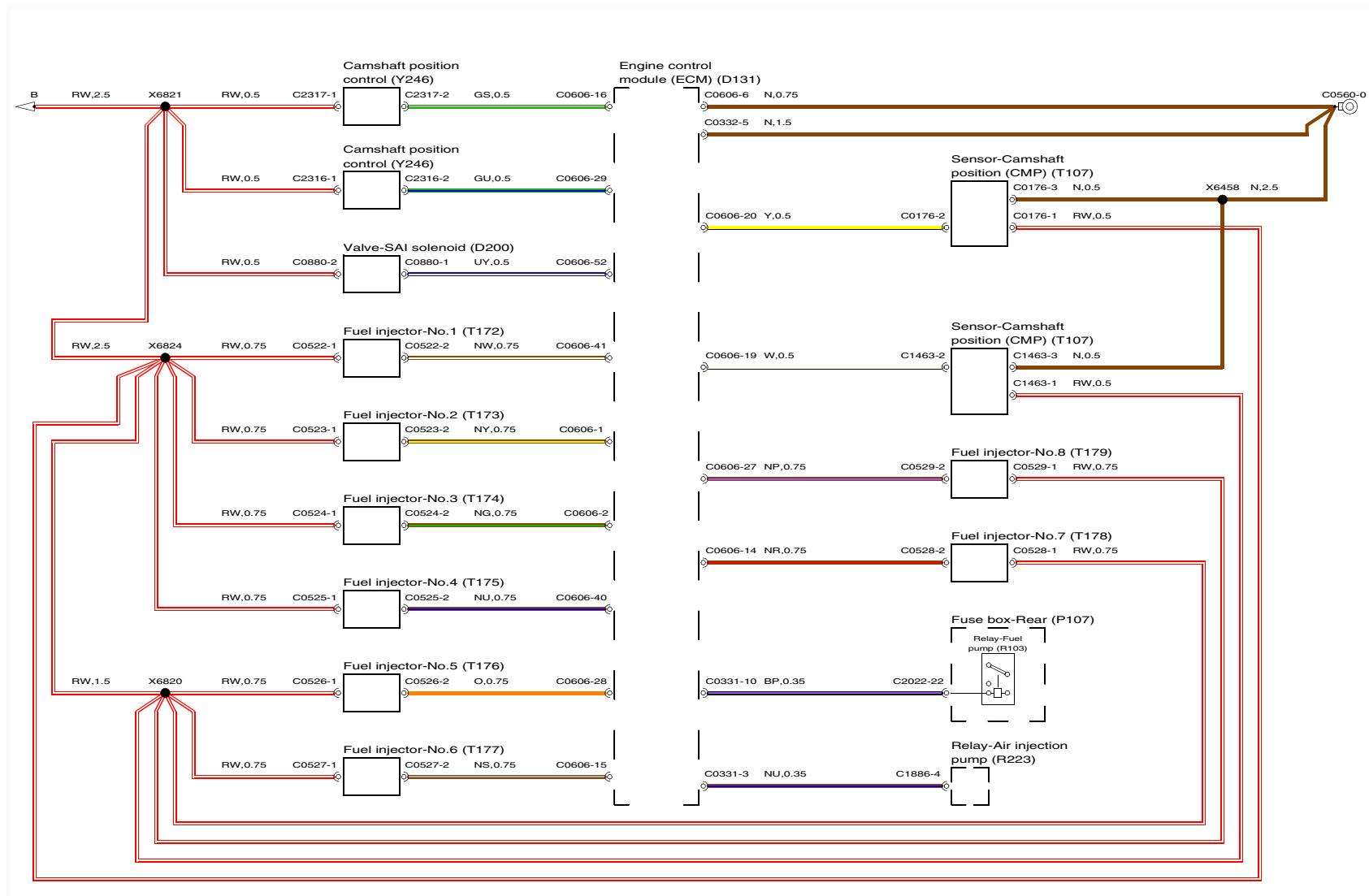


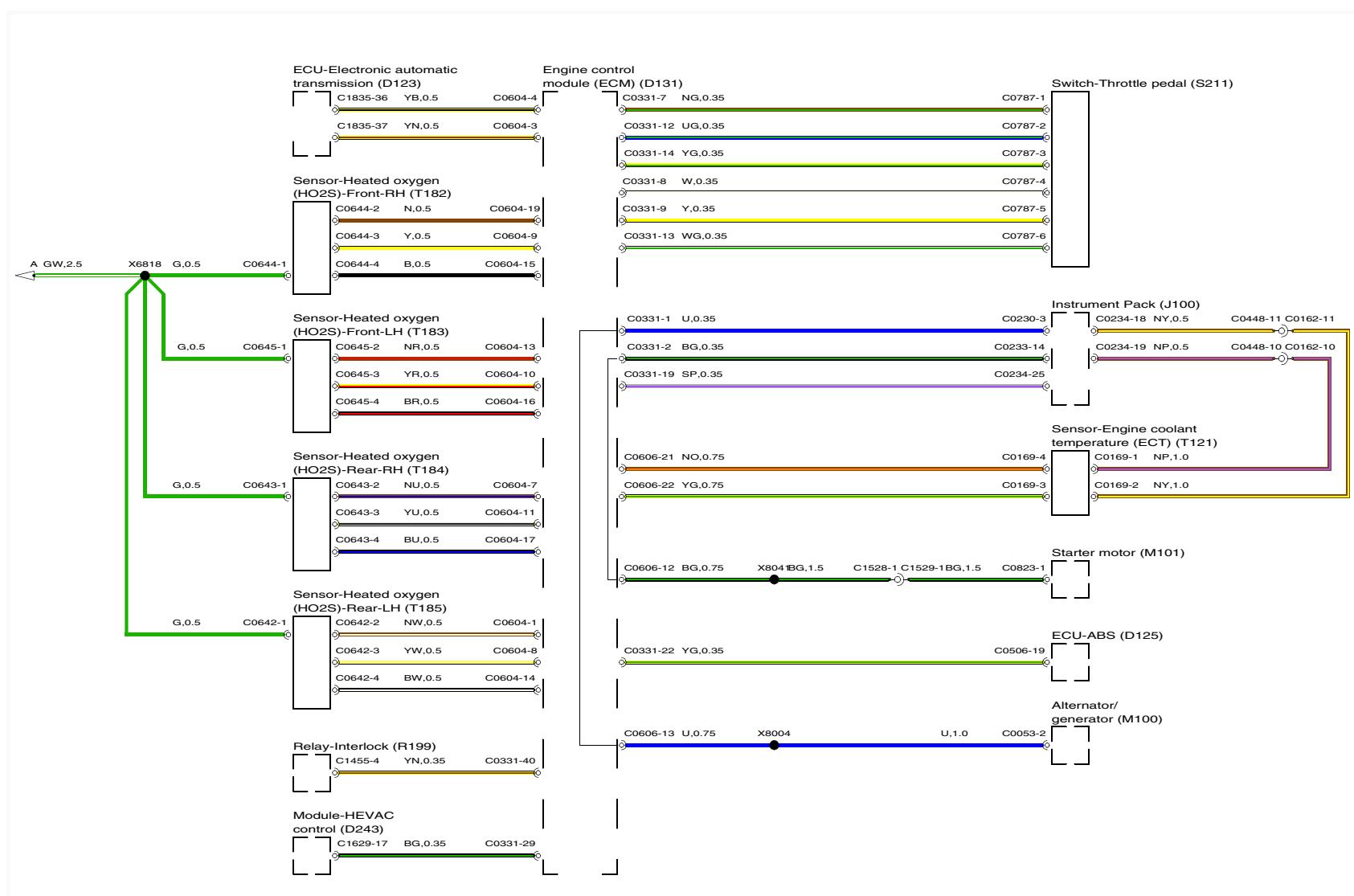


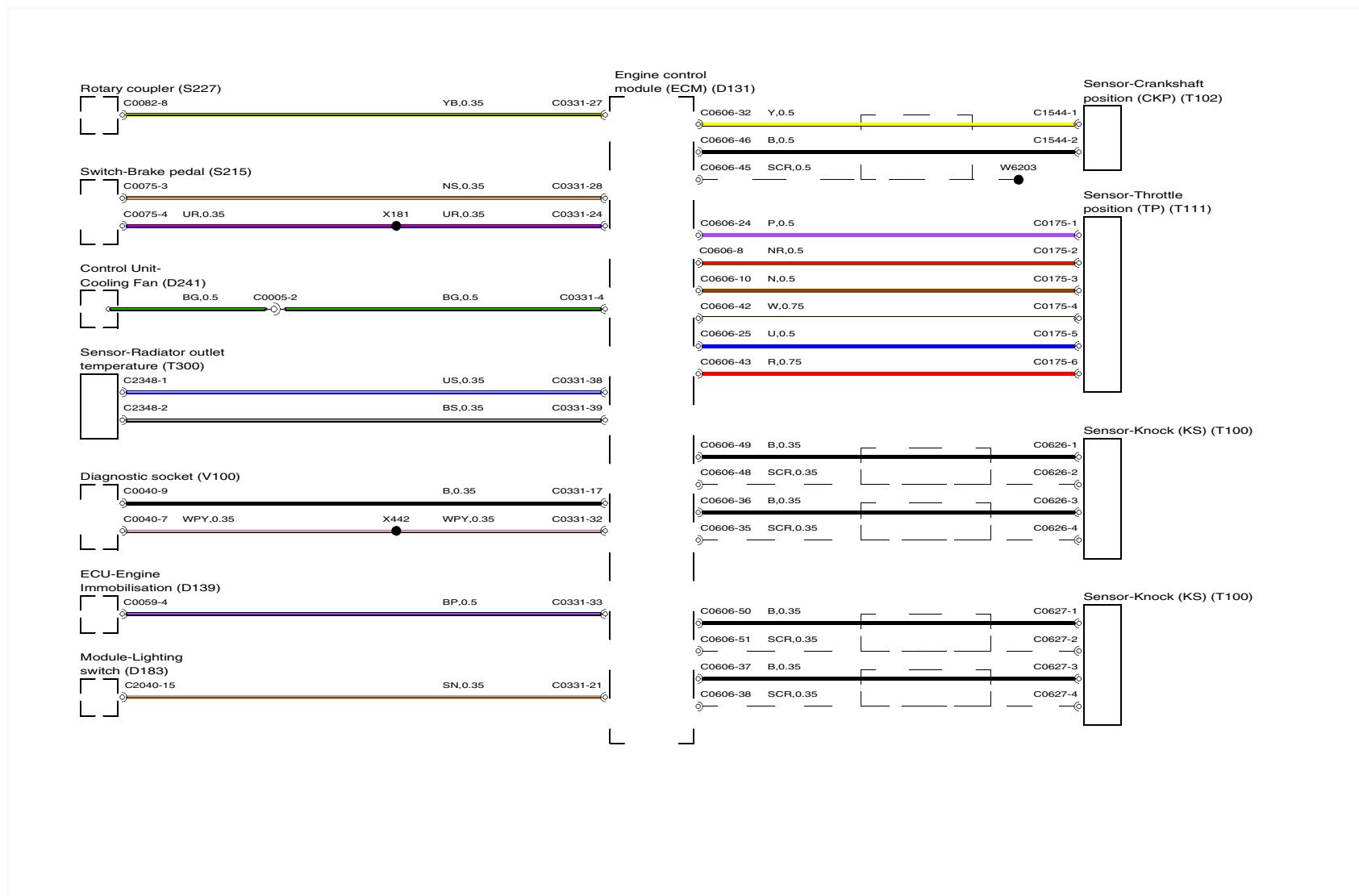


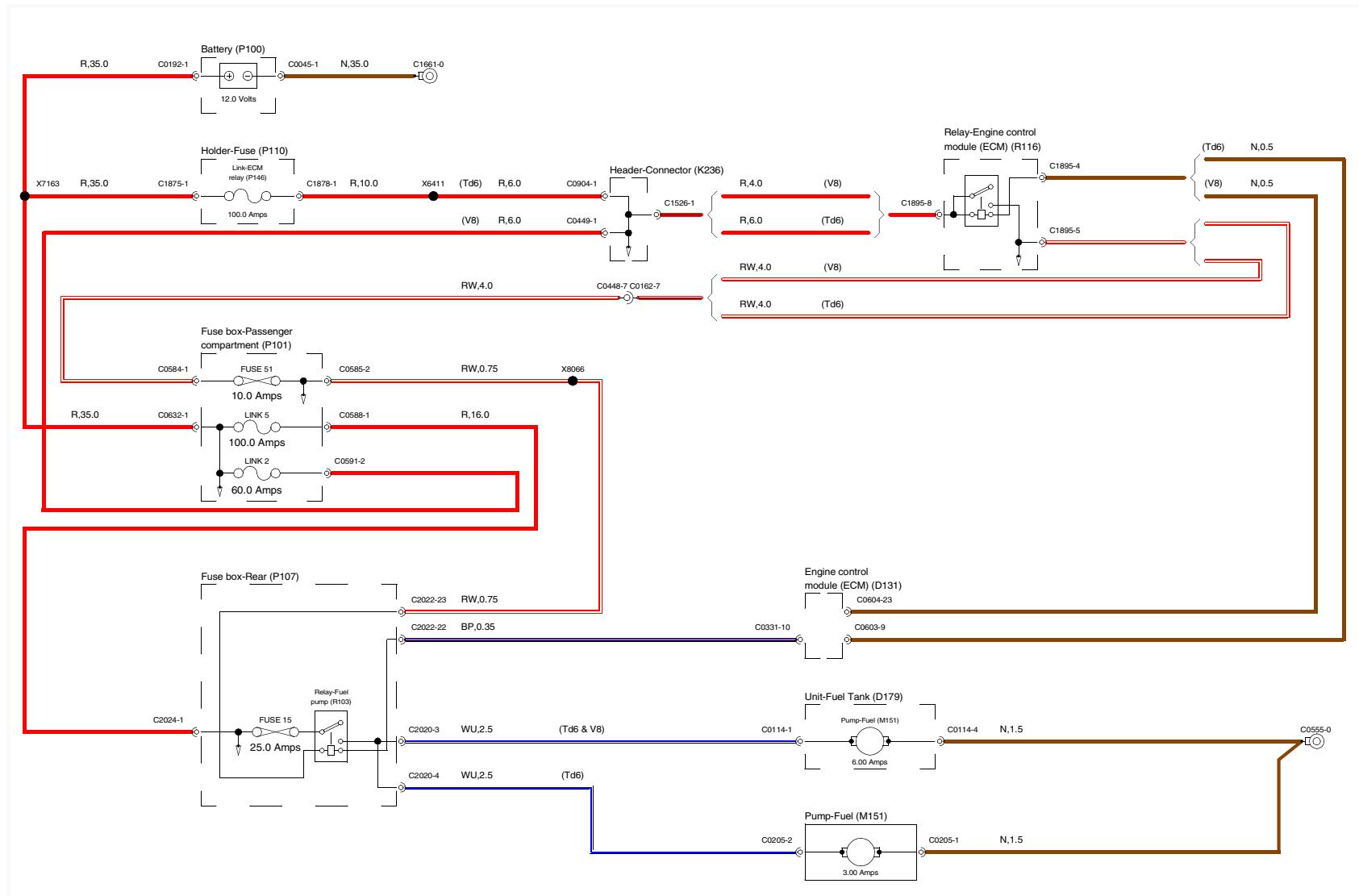




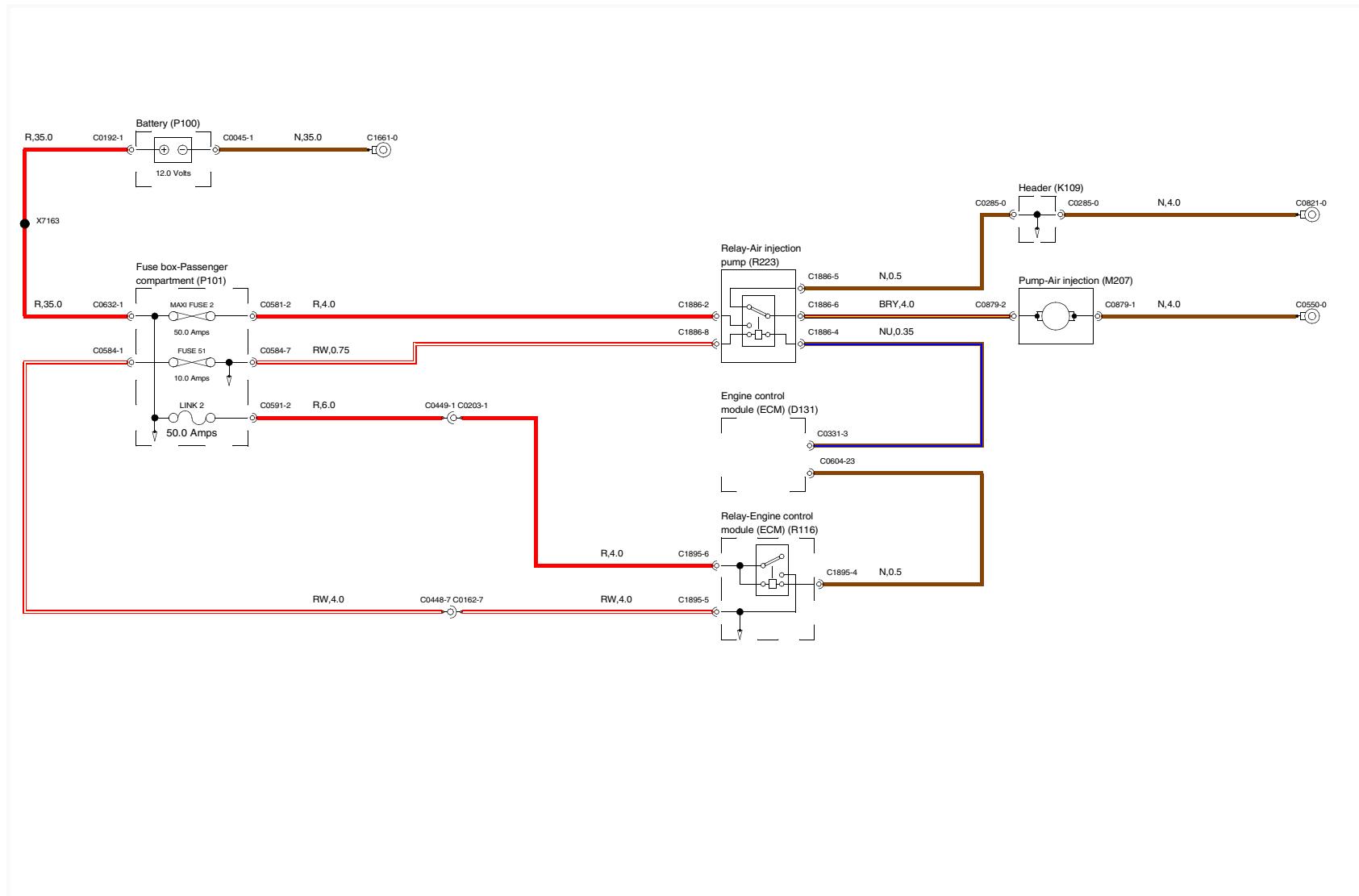




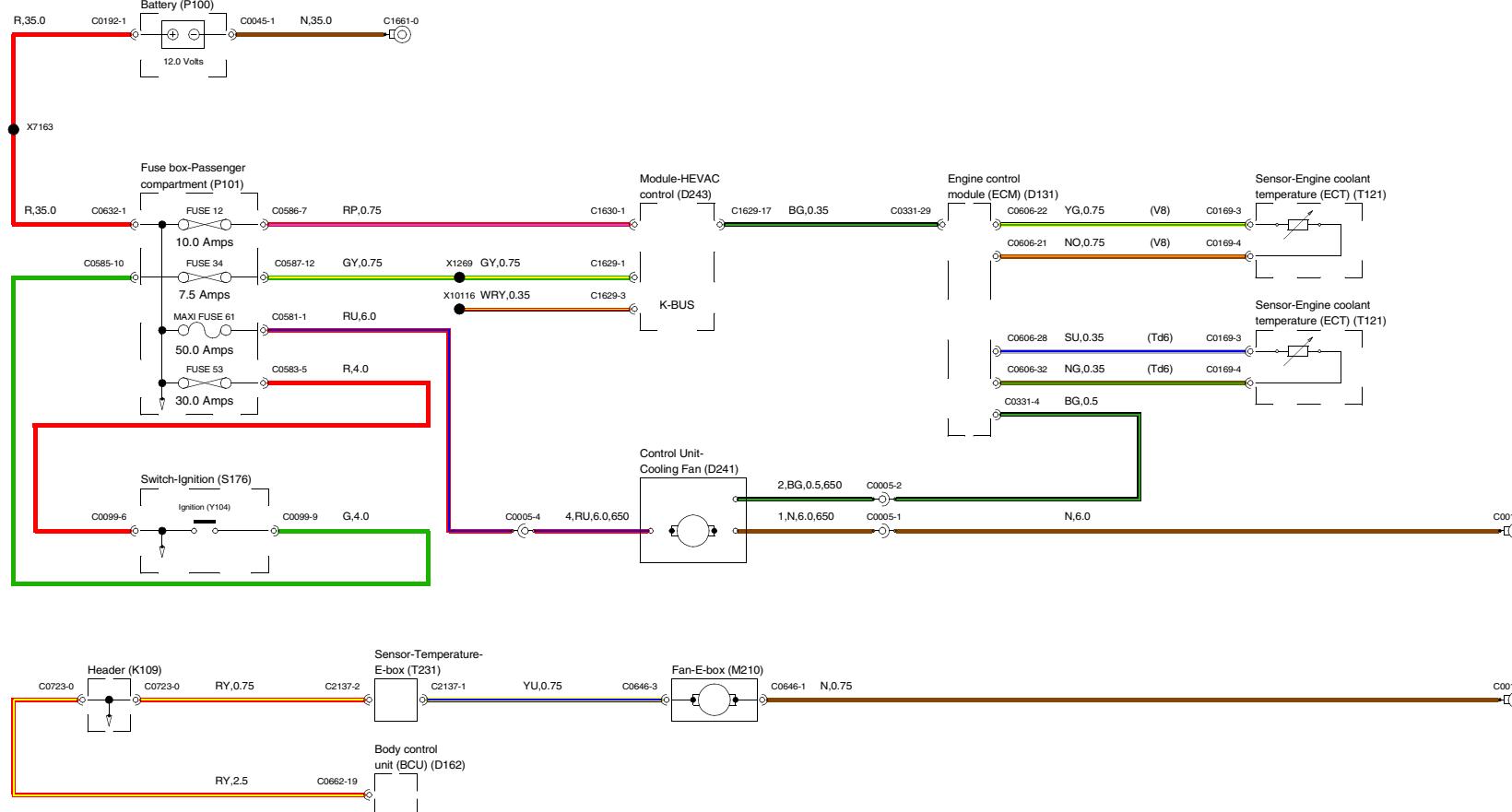


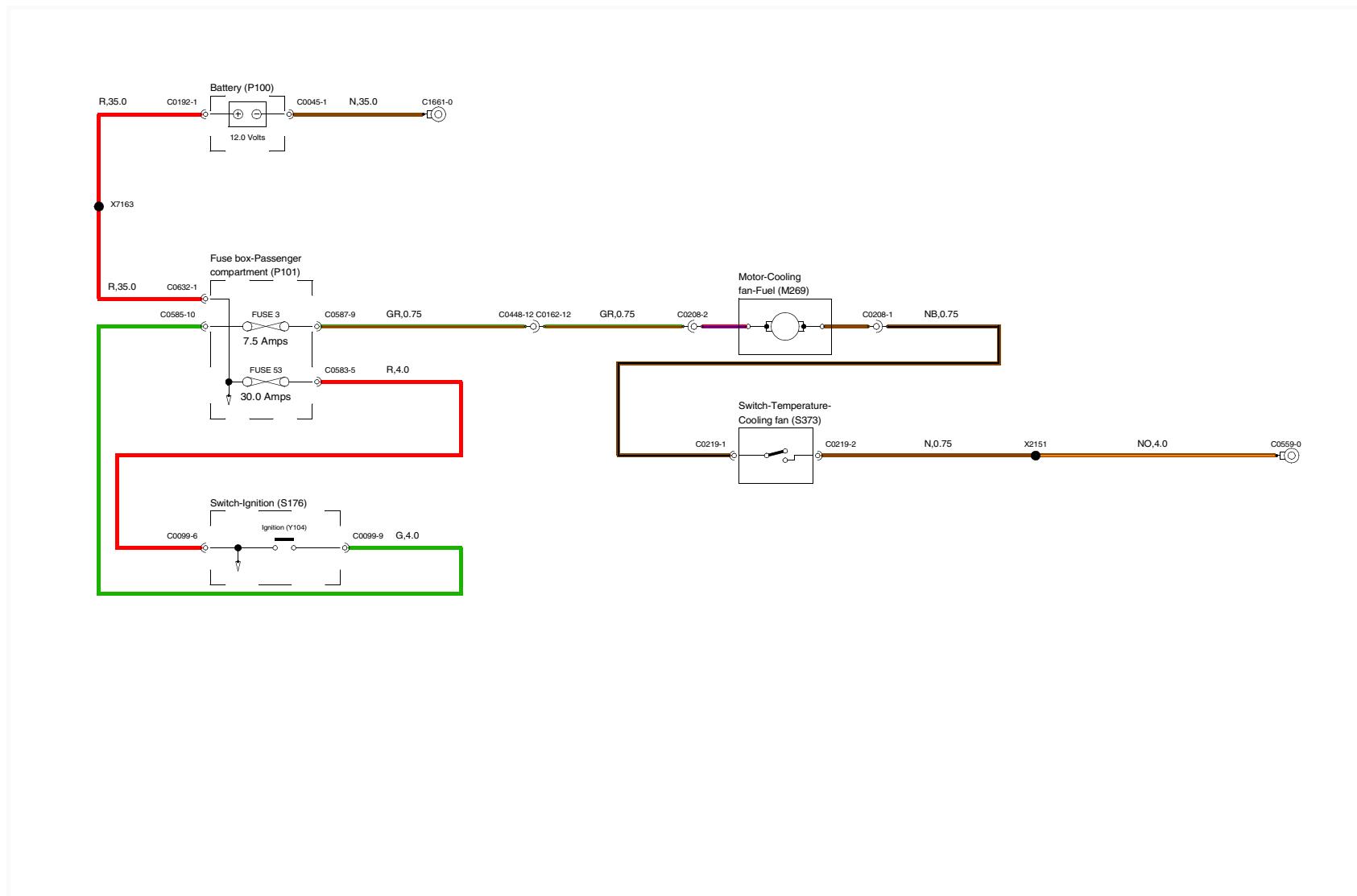


20 | SECONDARY AIR INJECTION

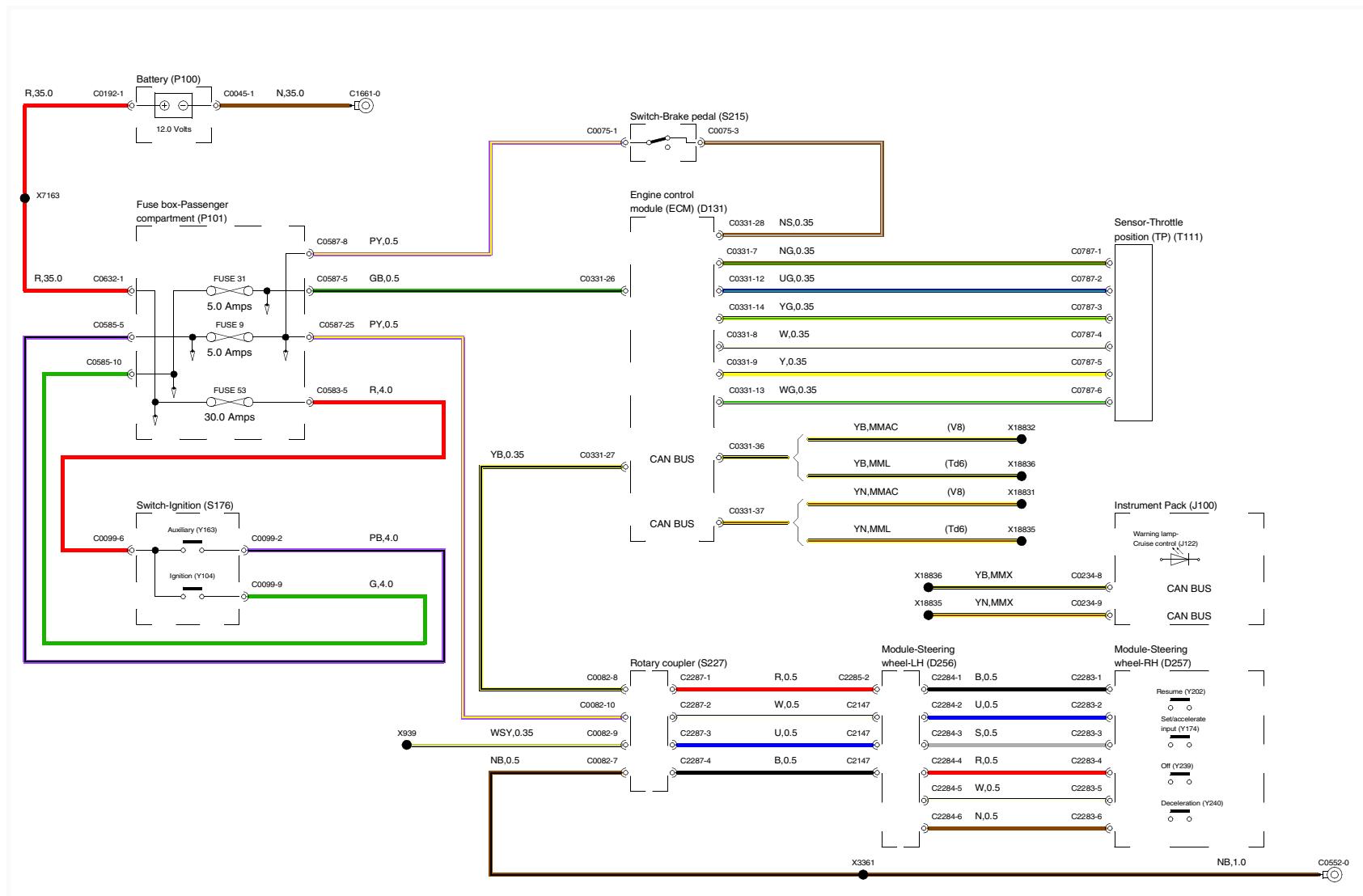


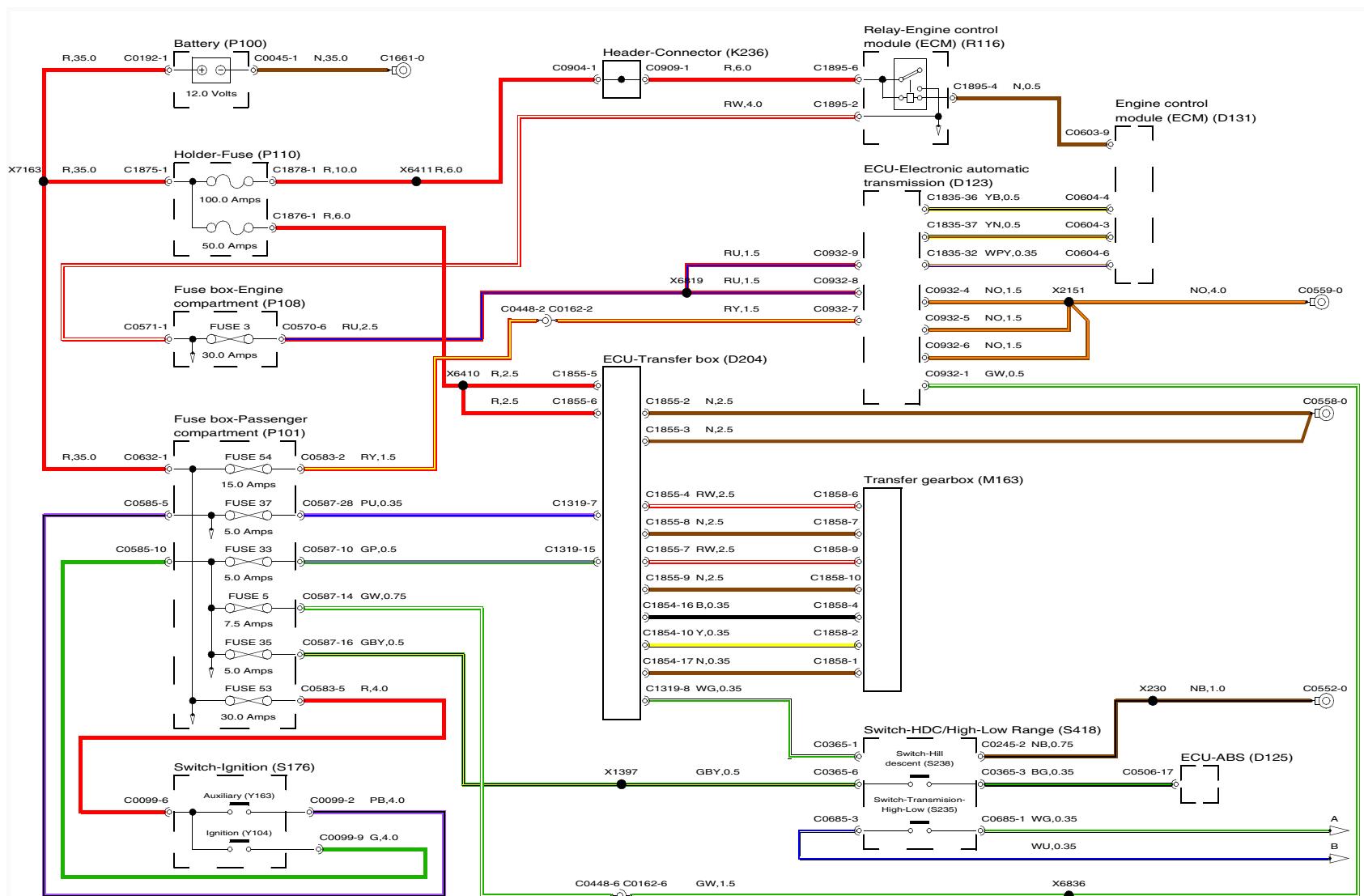
22 COOLING FANS

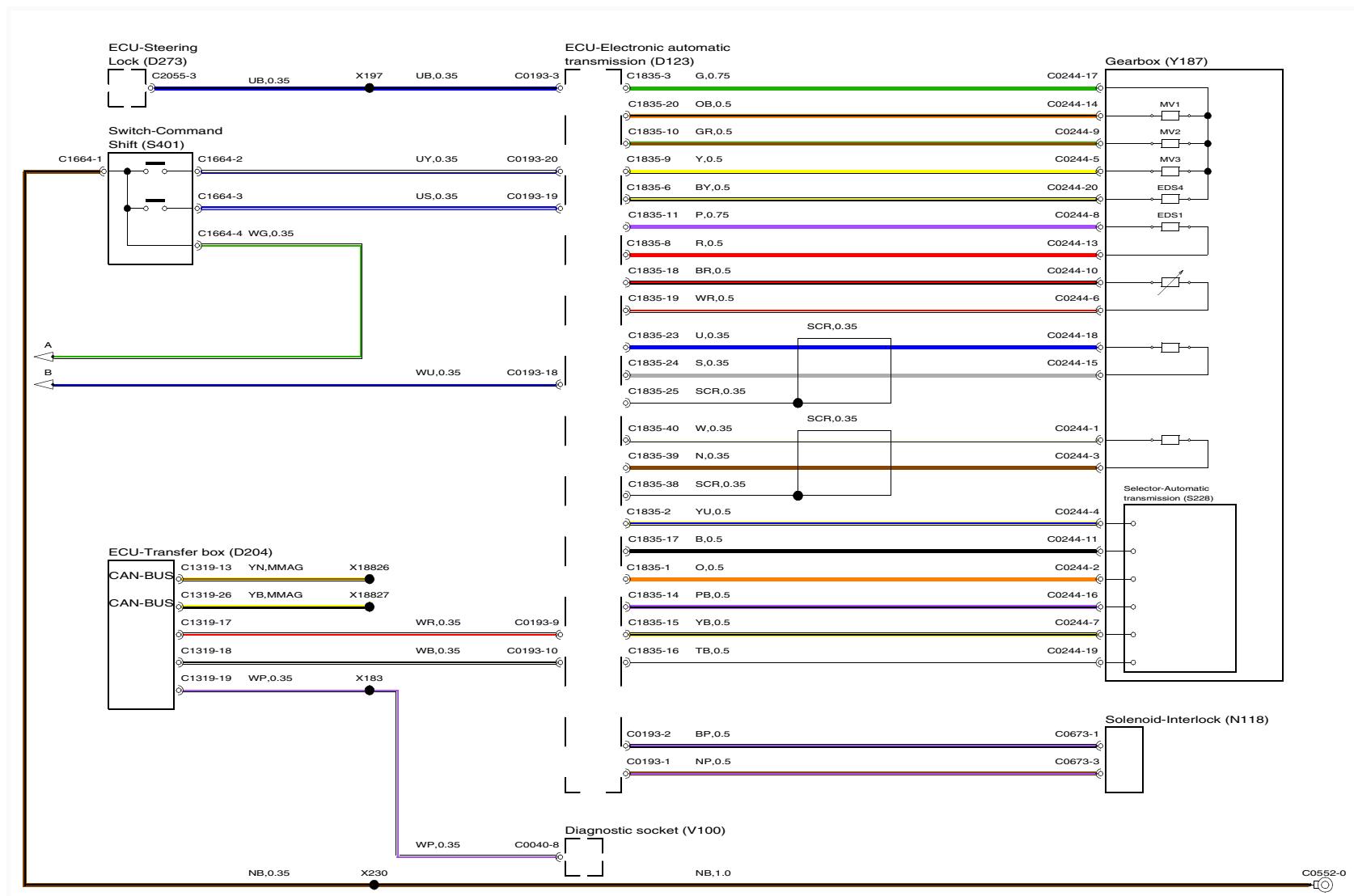


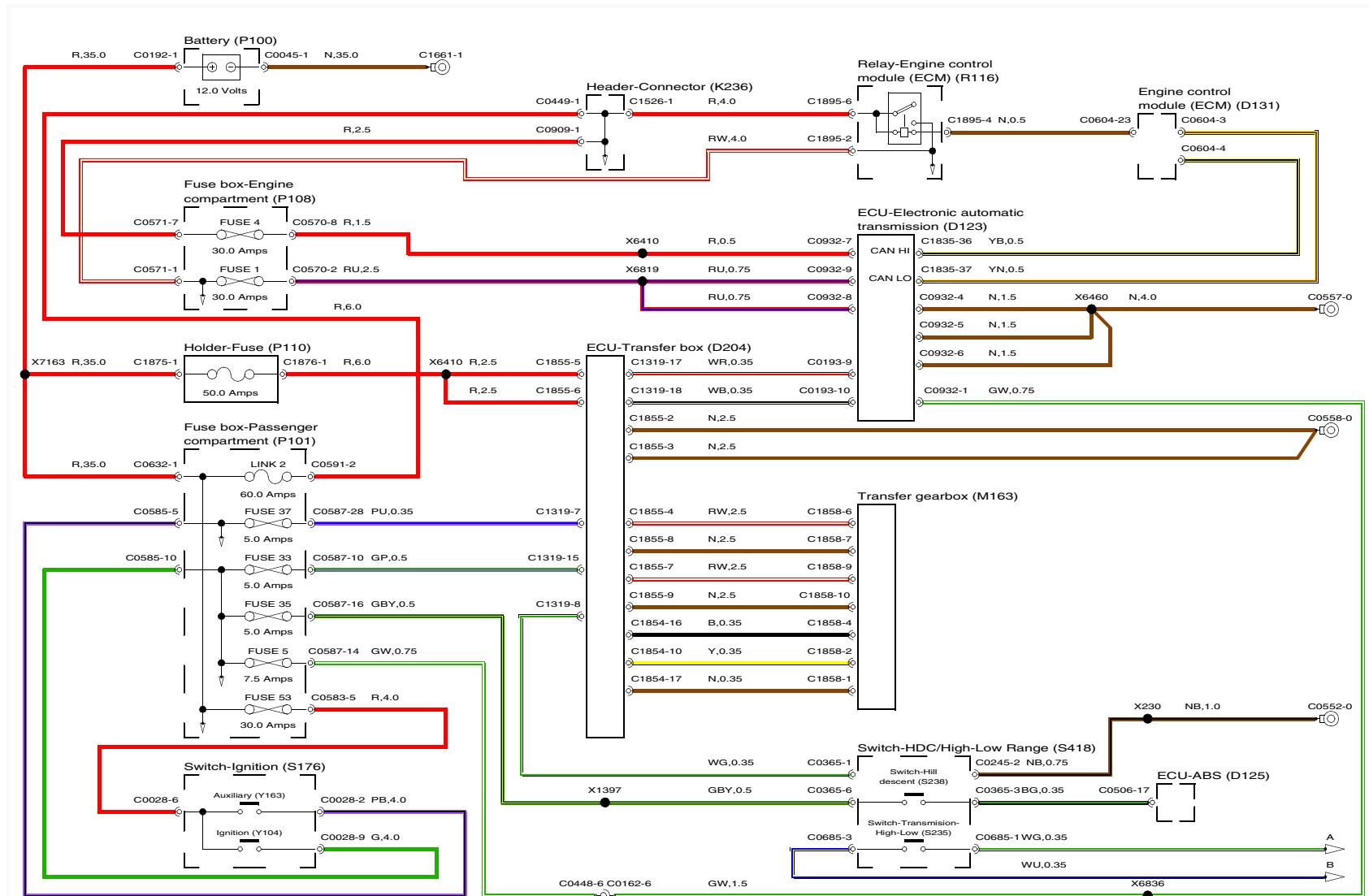


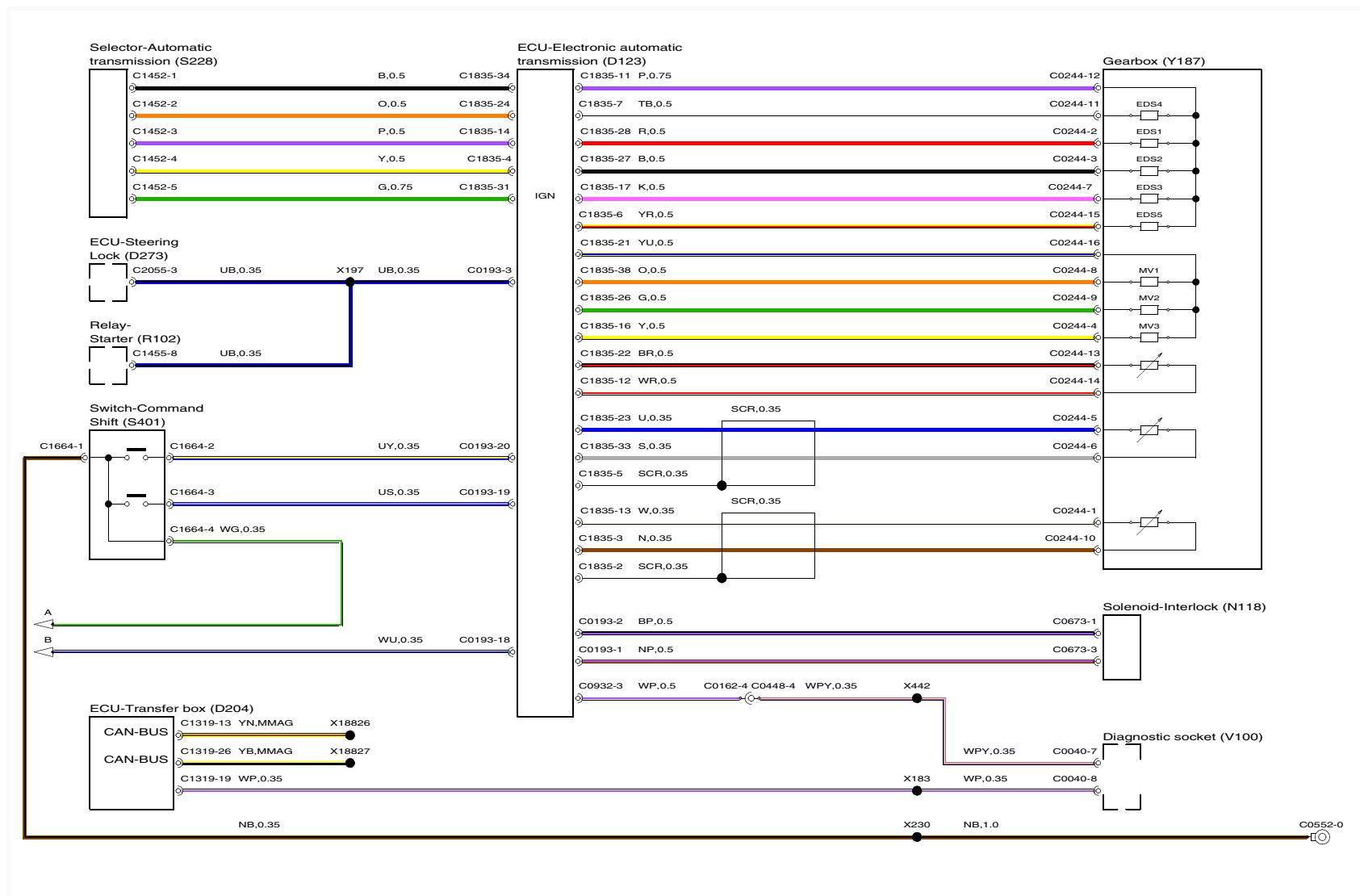
31 CRUISE CONTROL

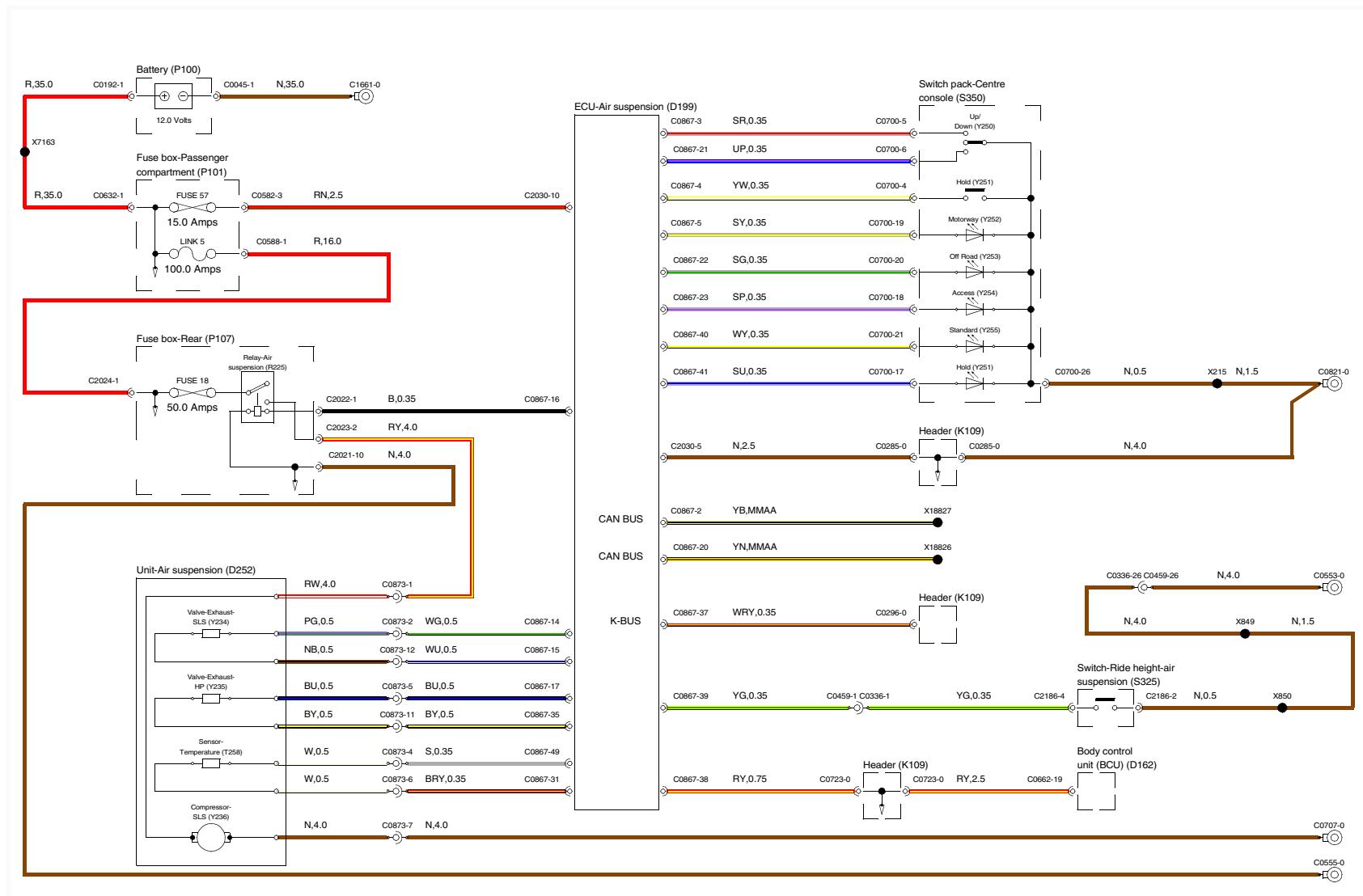


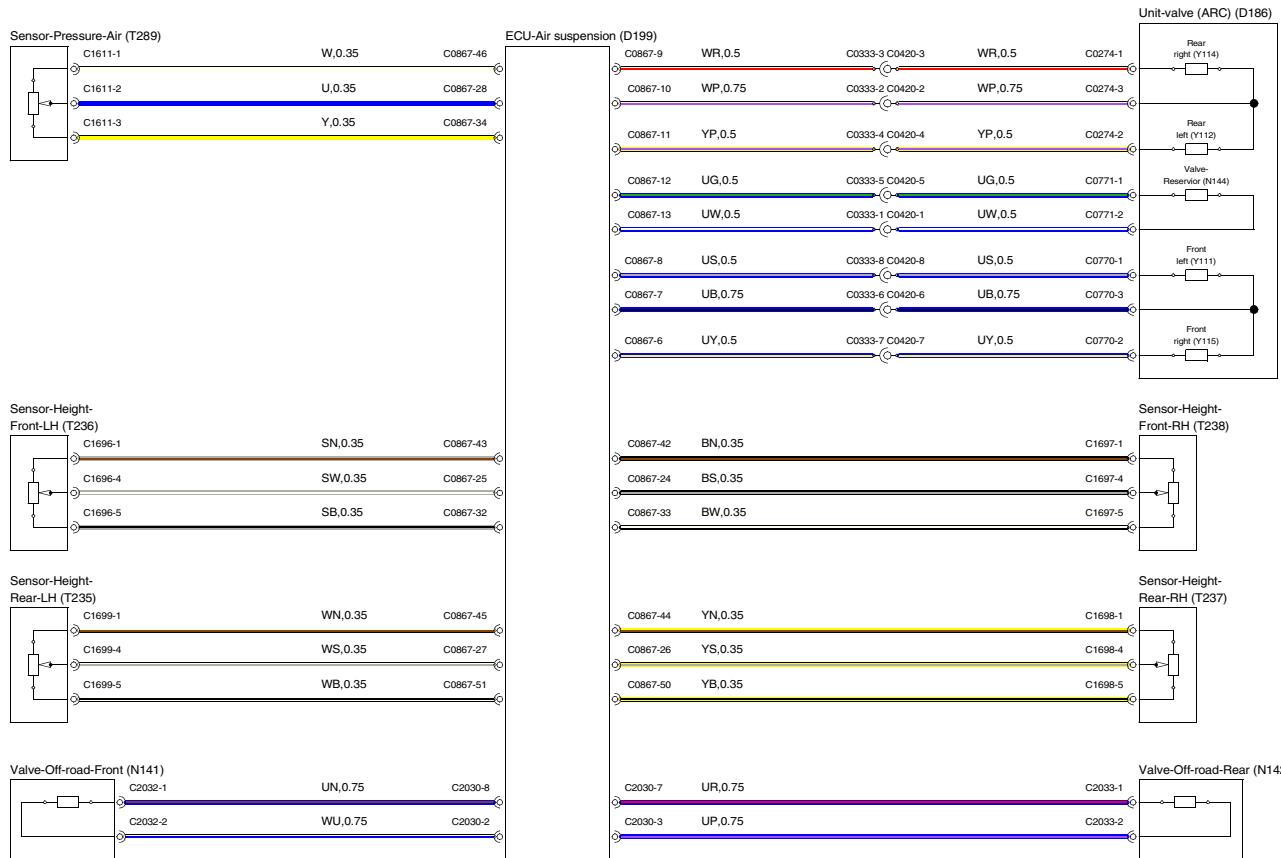


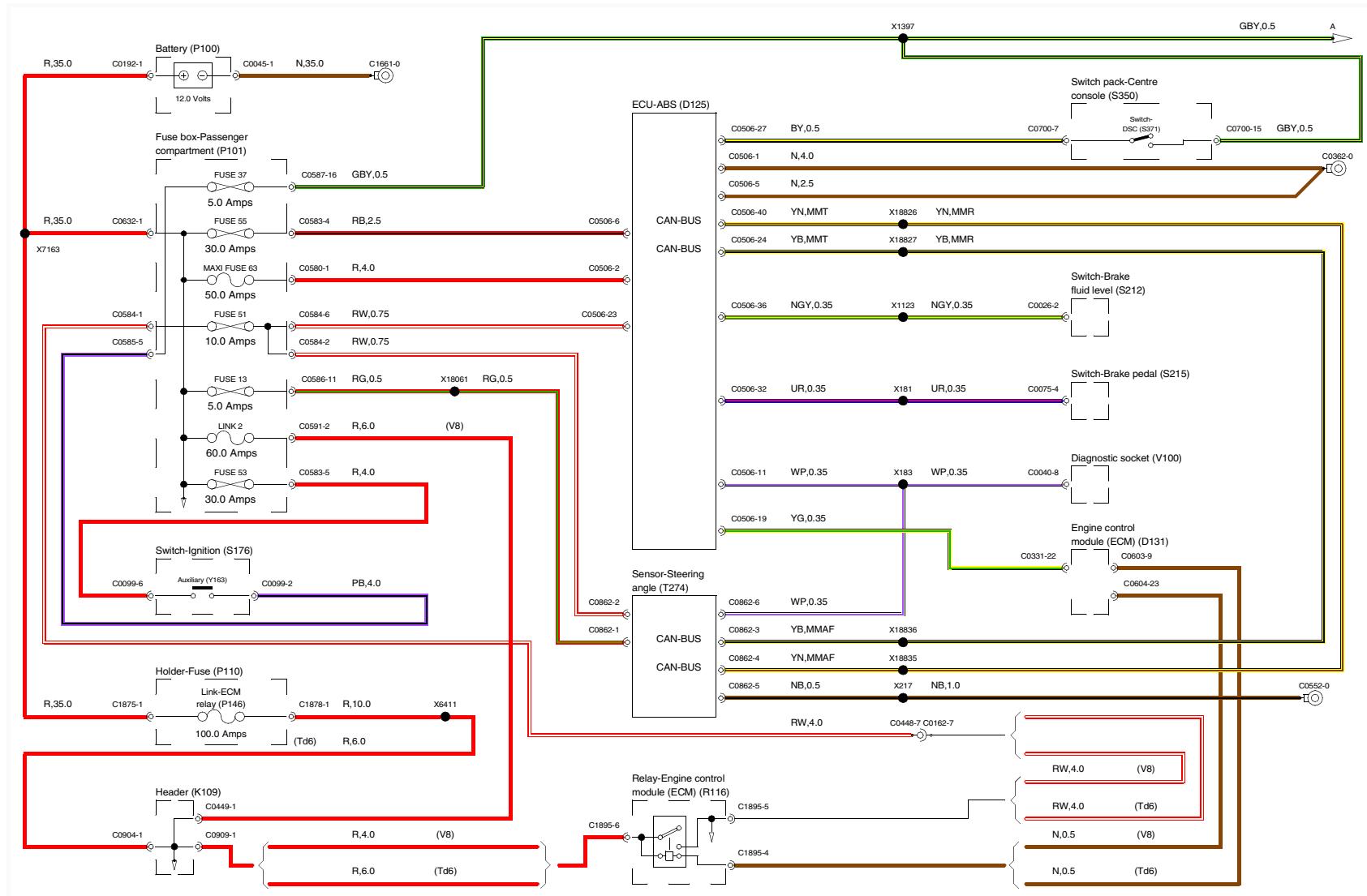


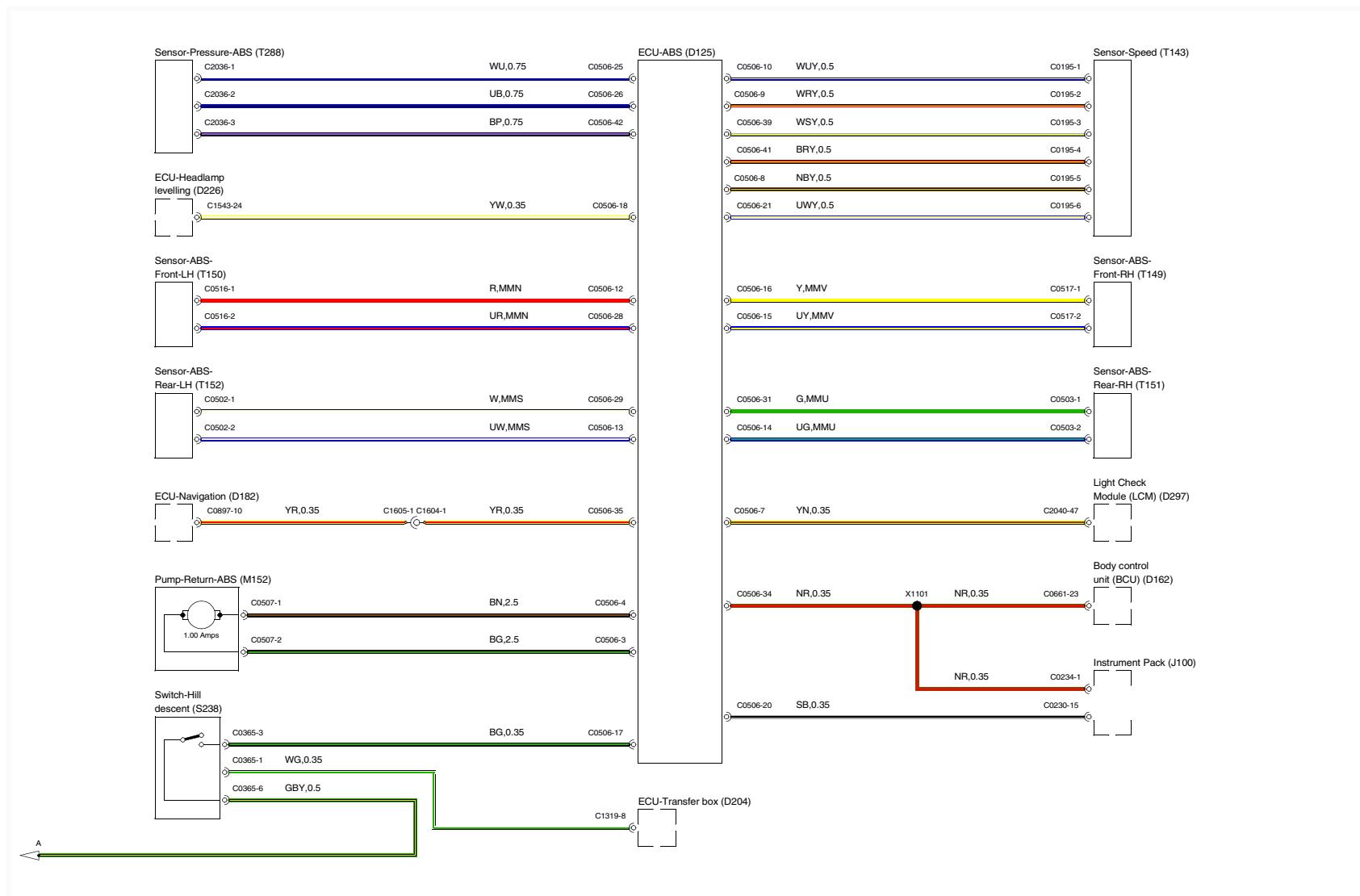


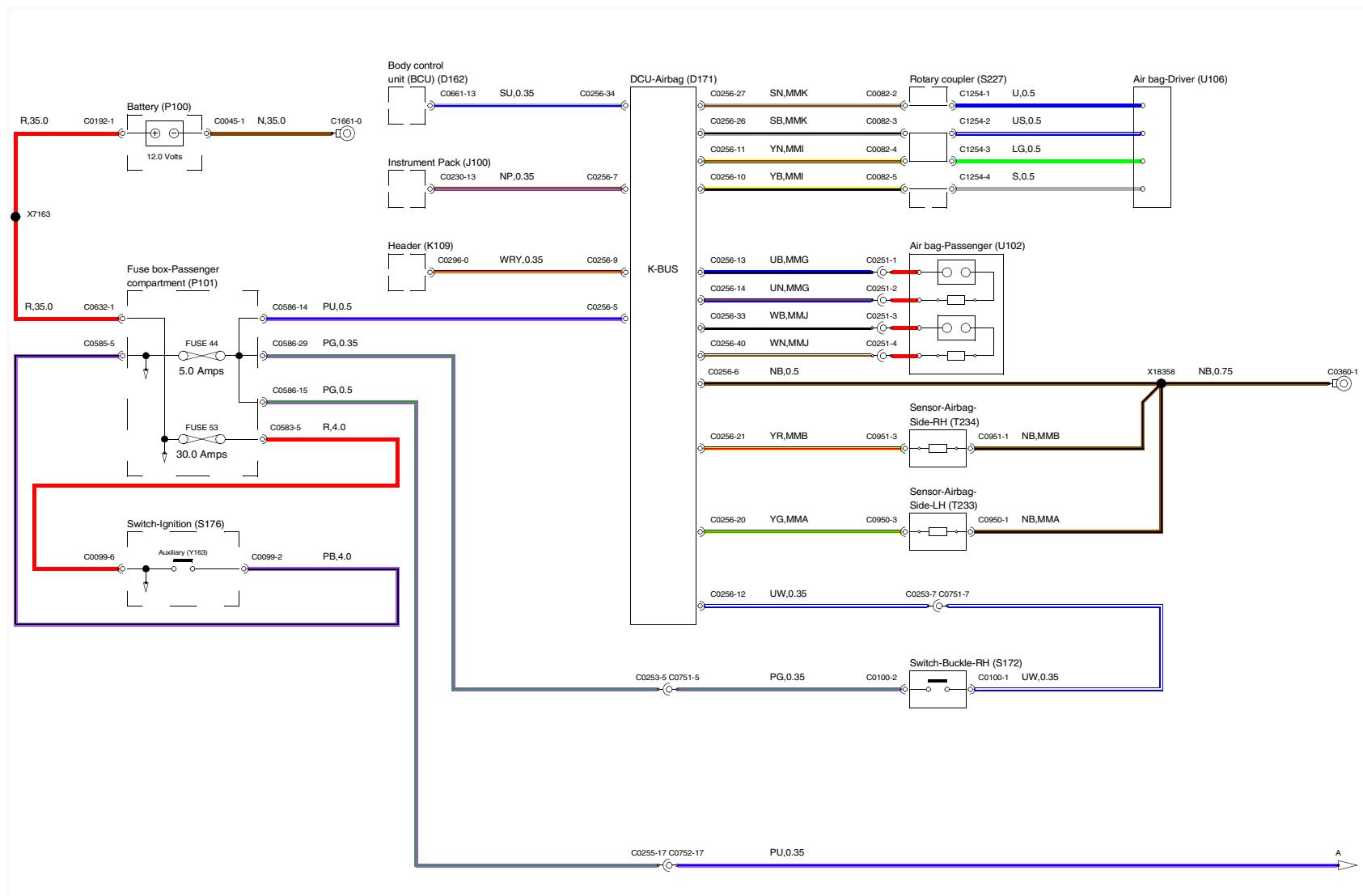


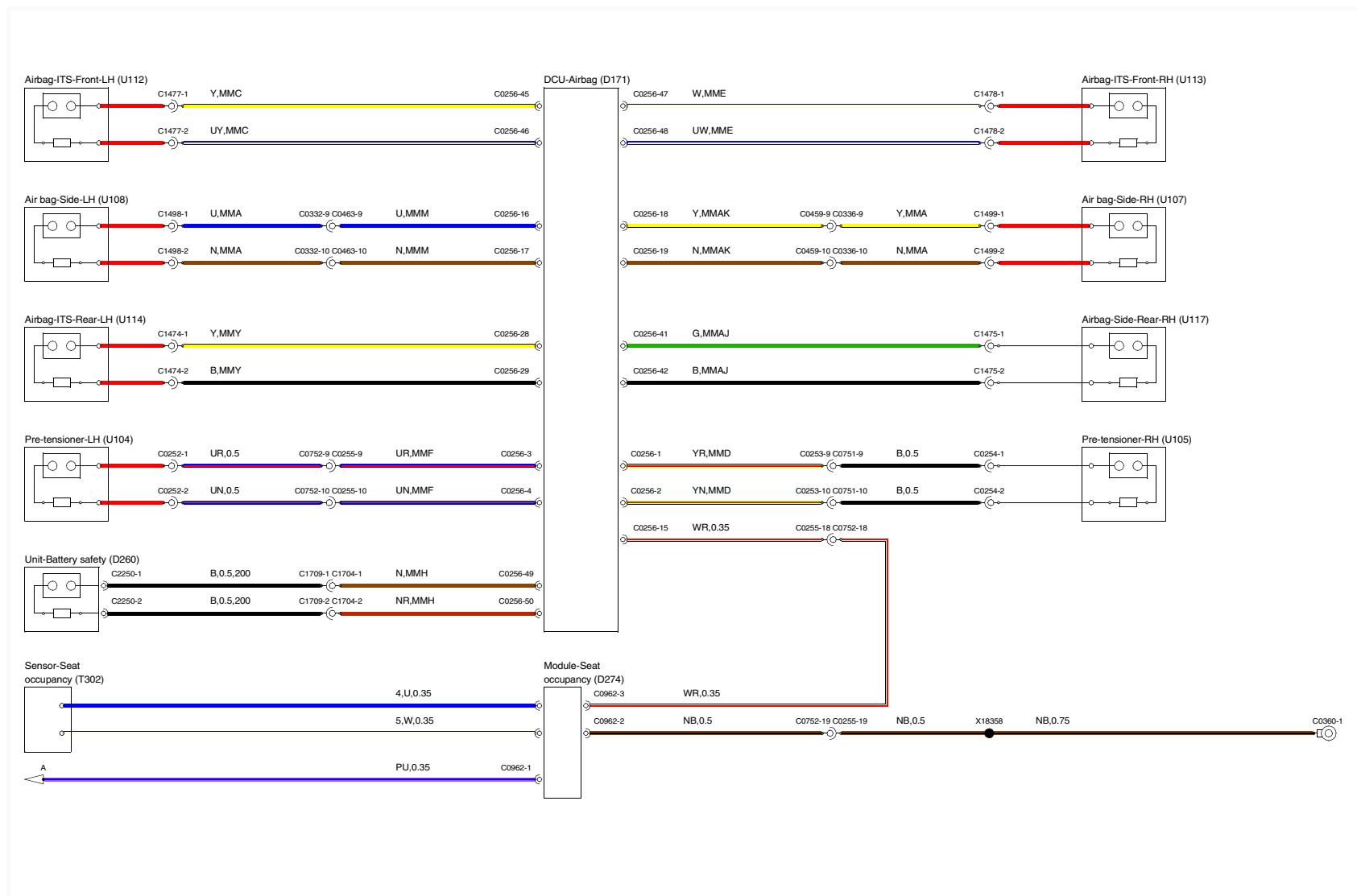


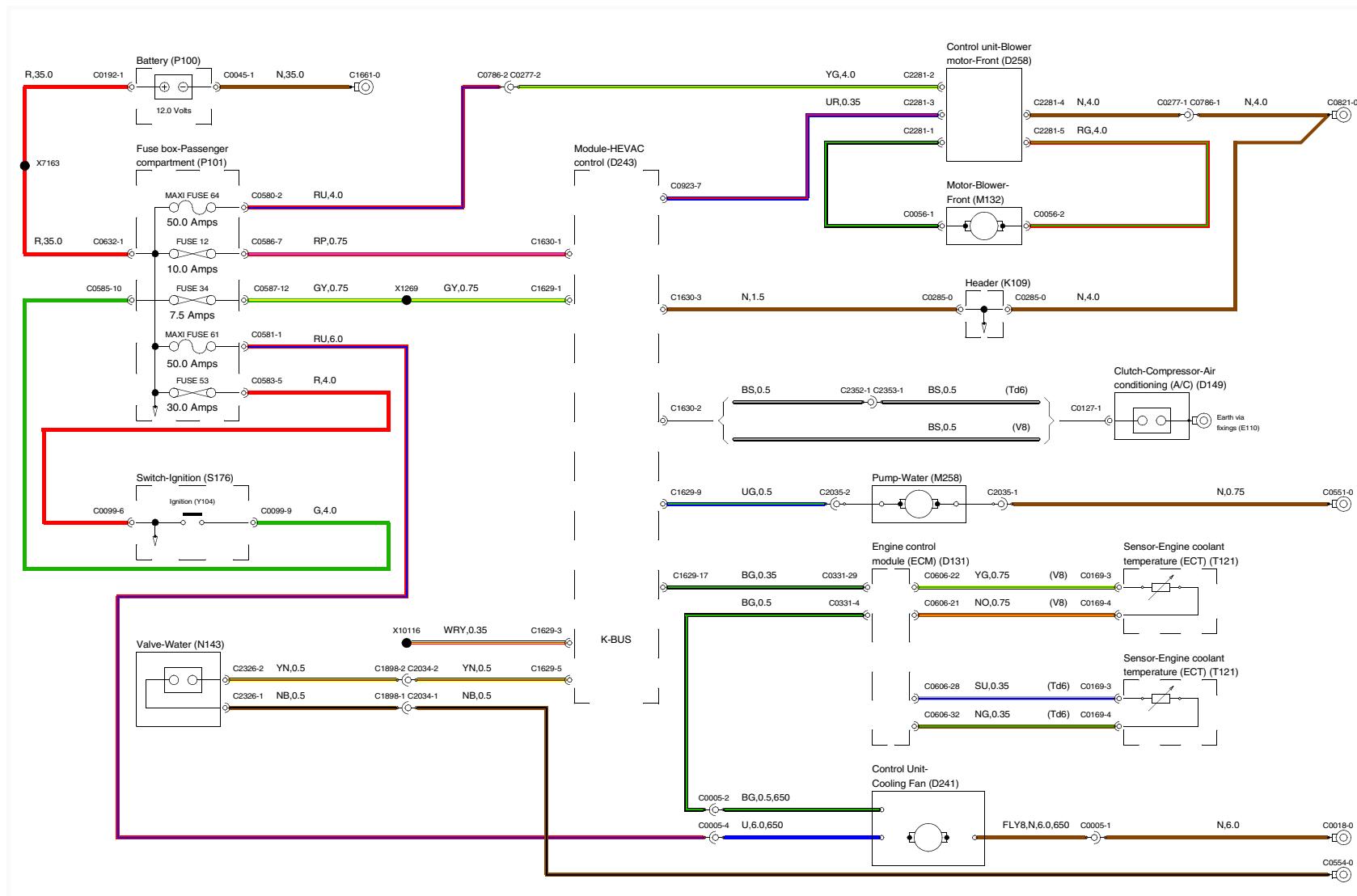


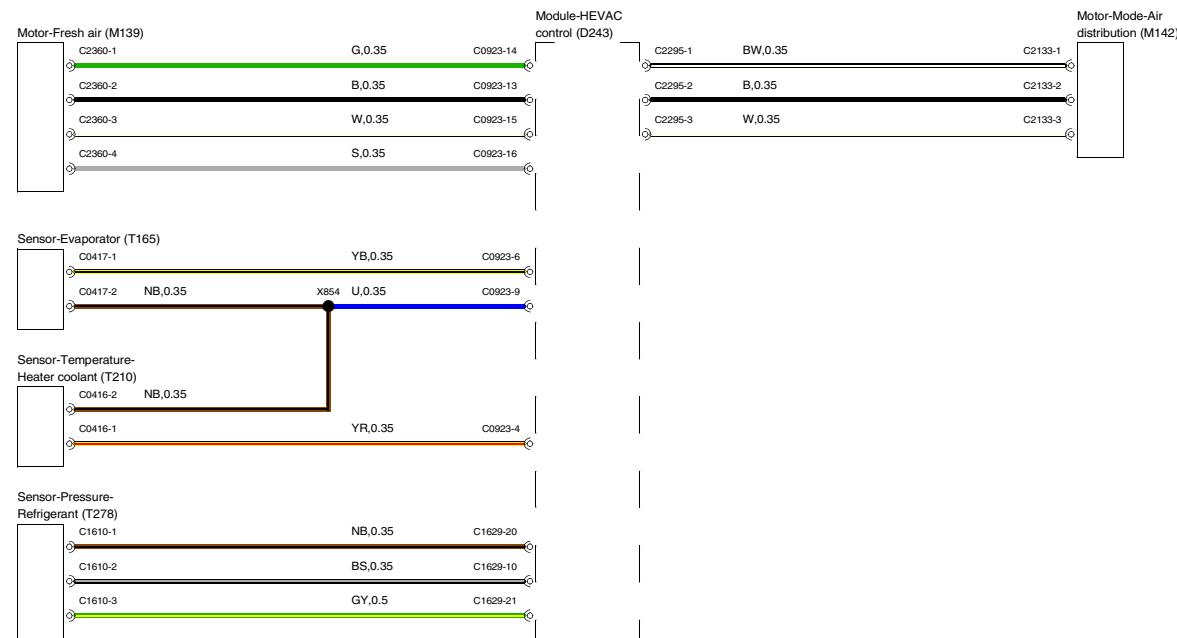


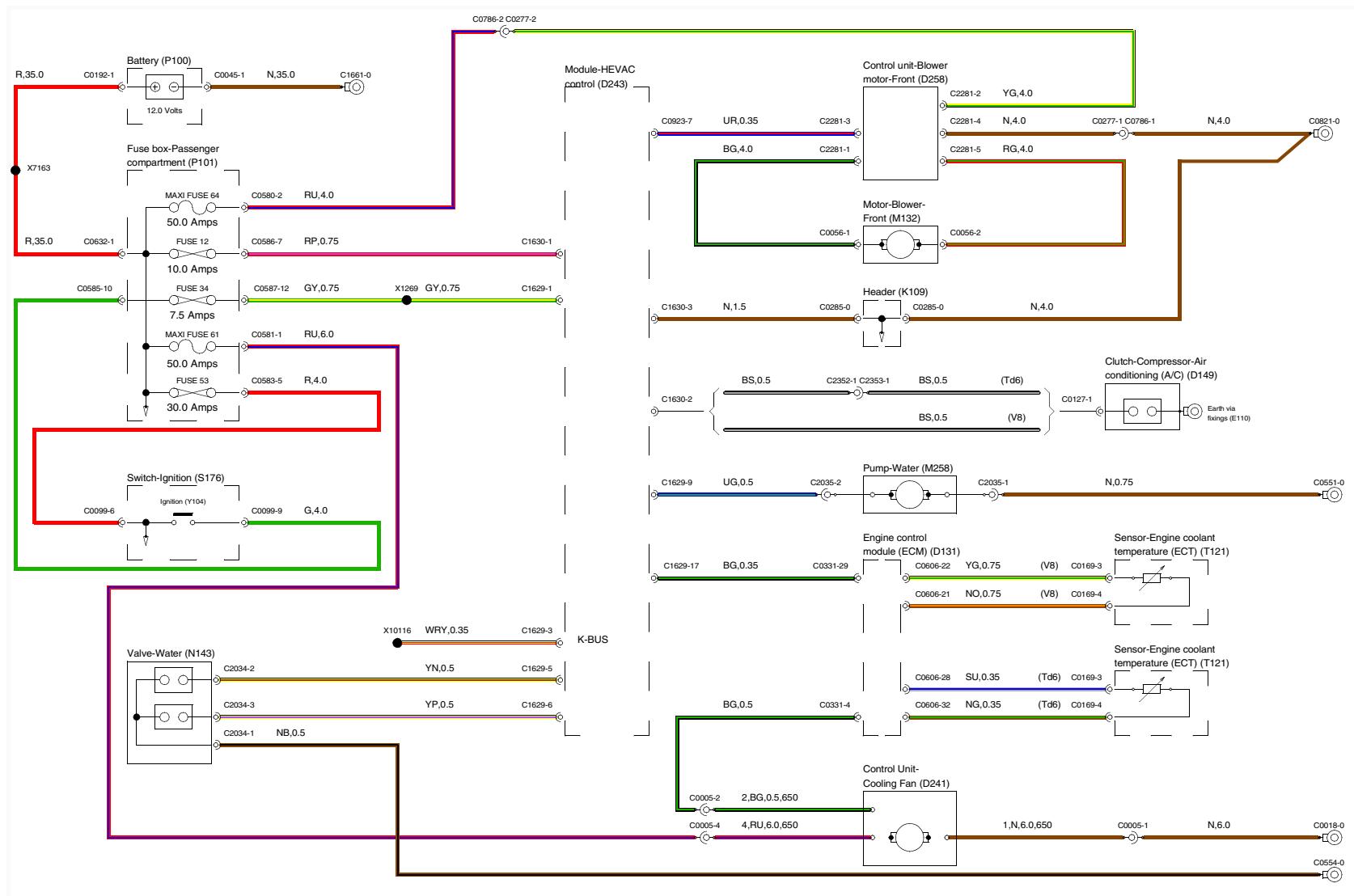


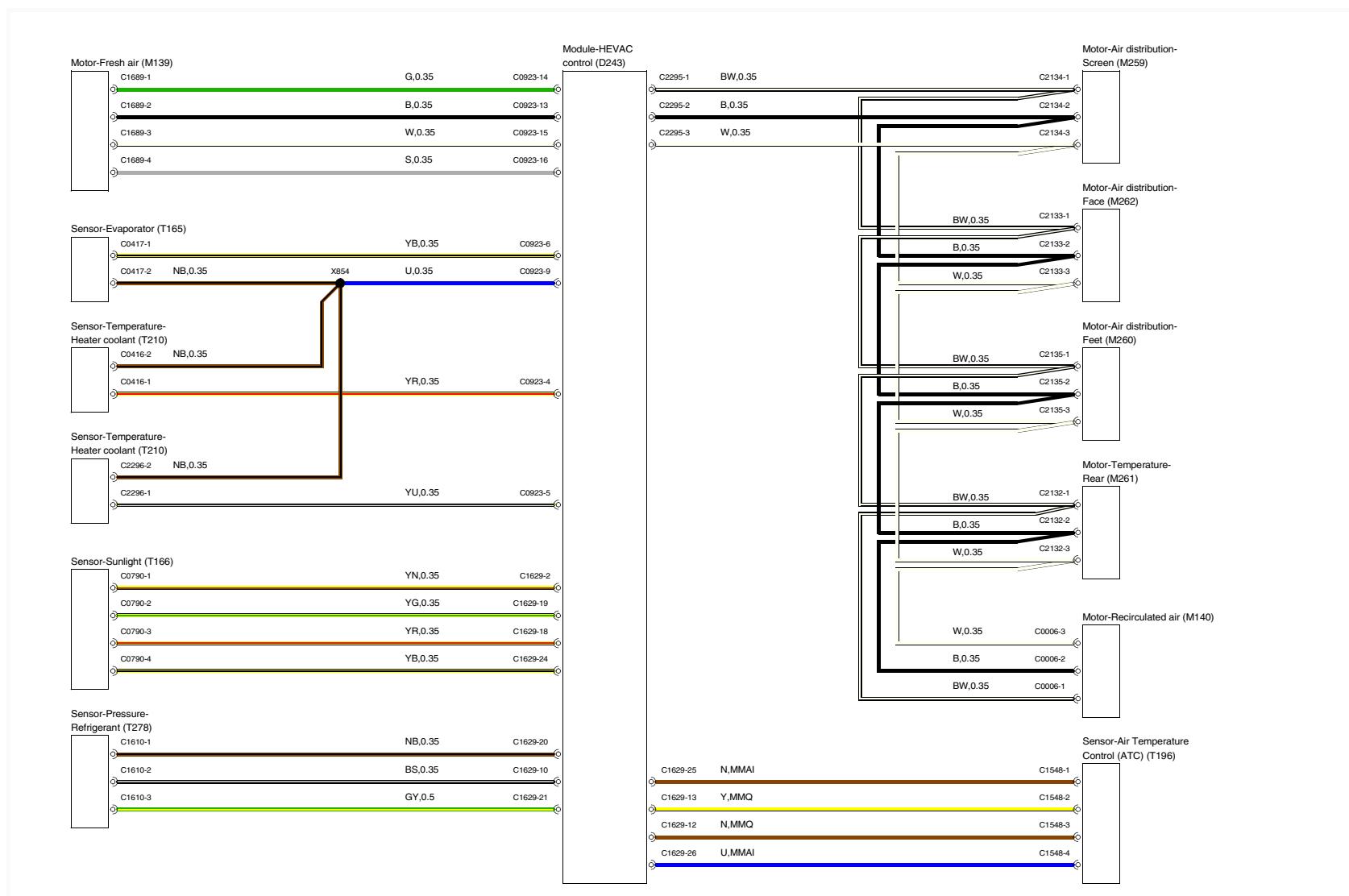


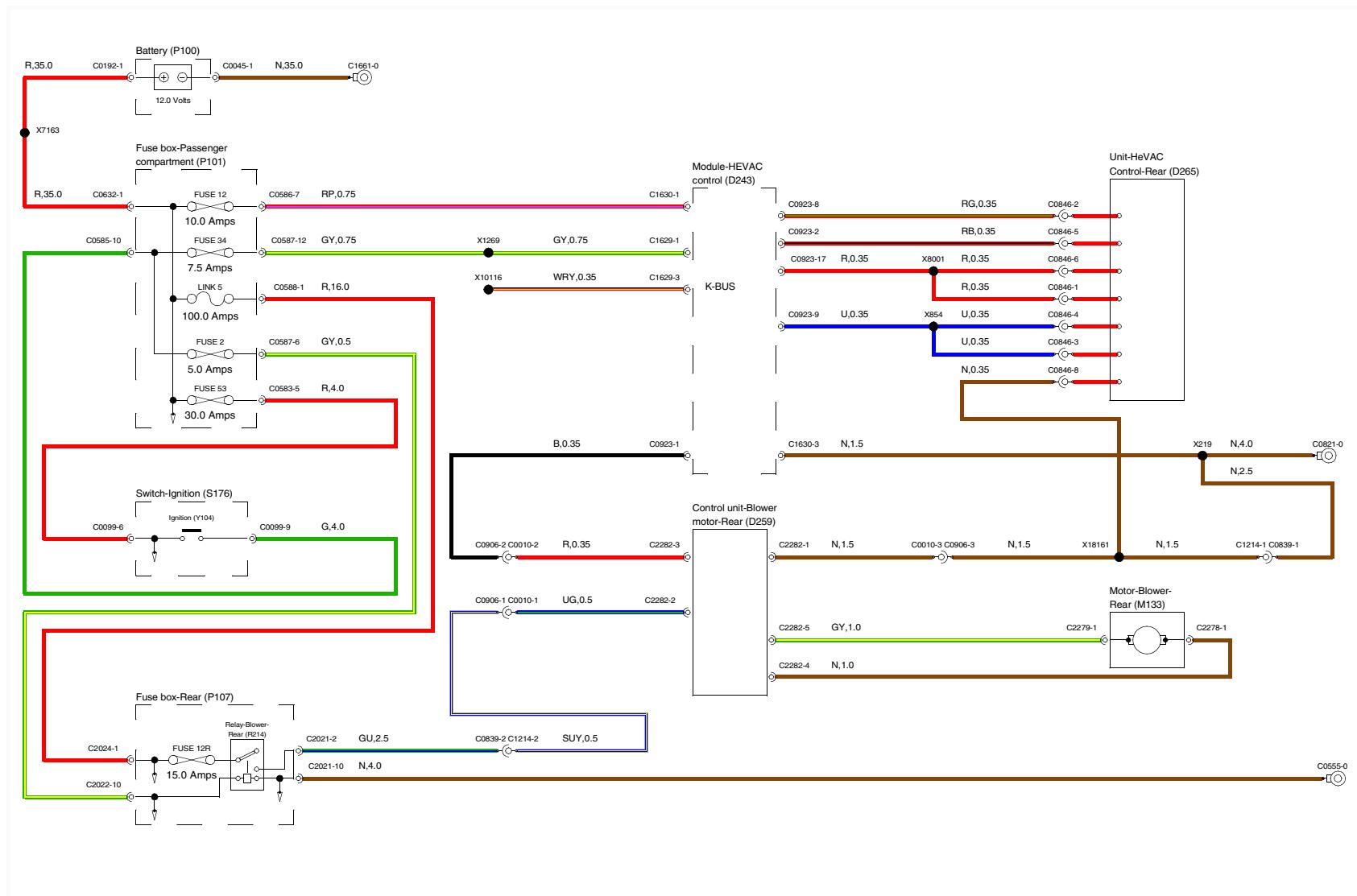


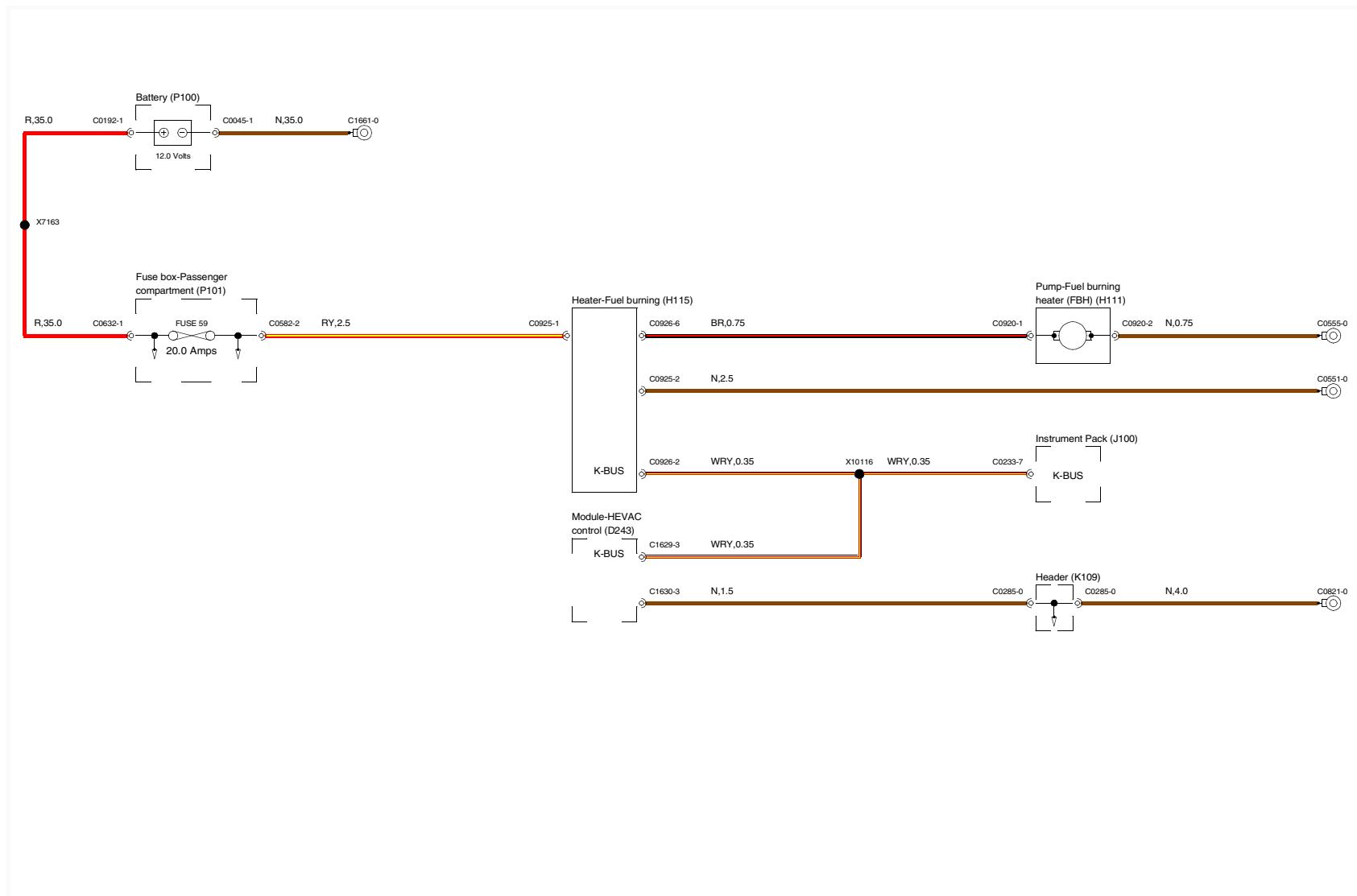


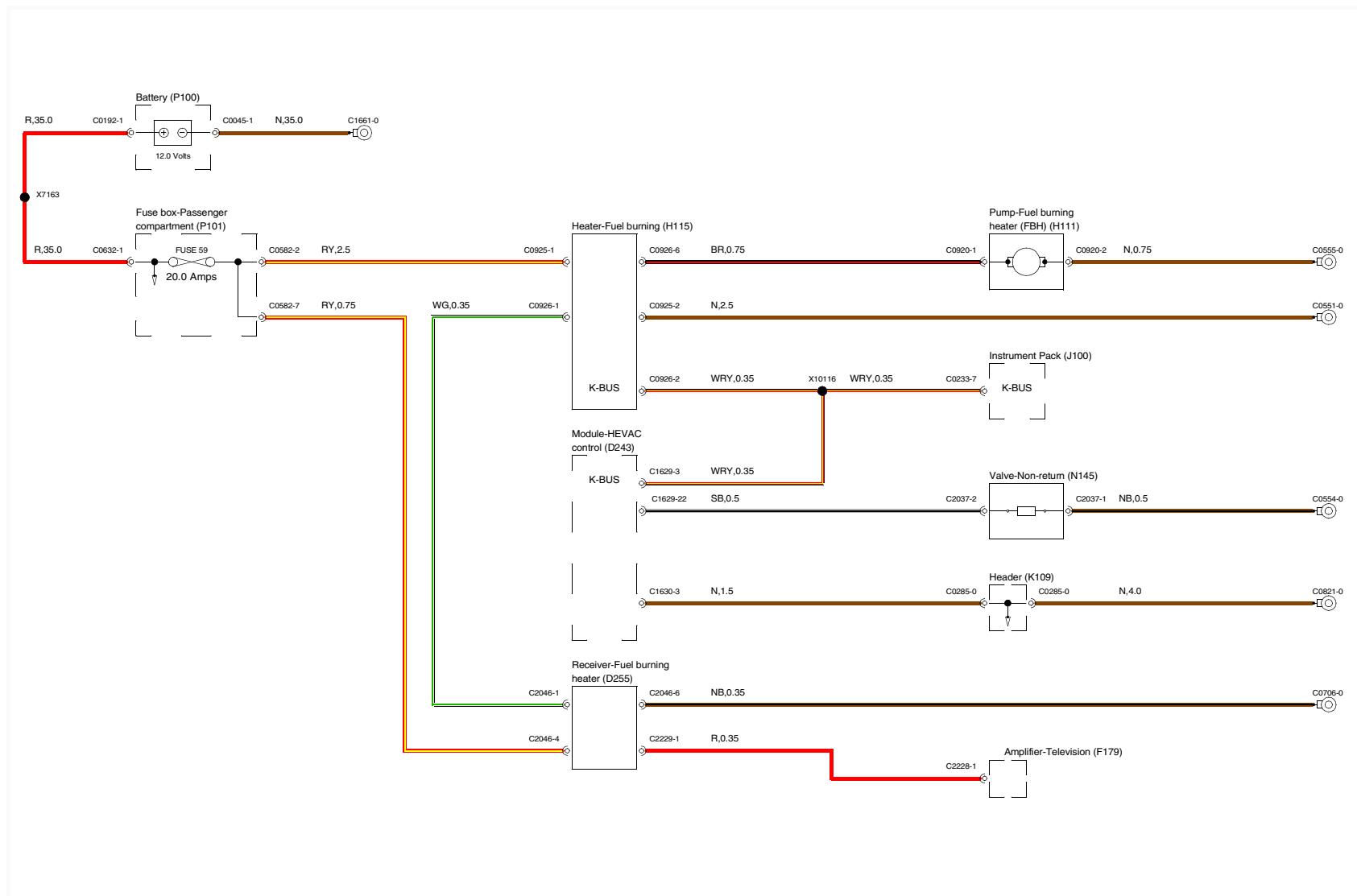


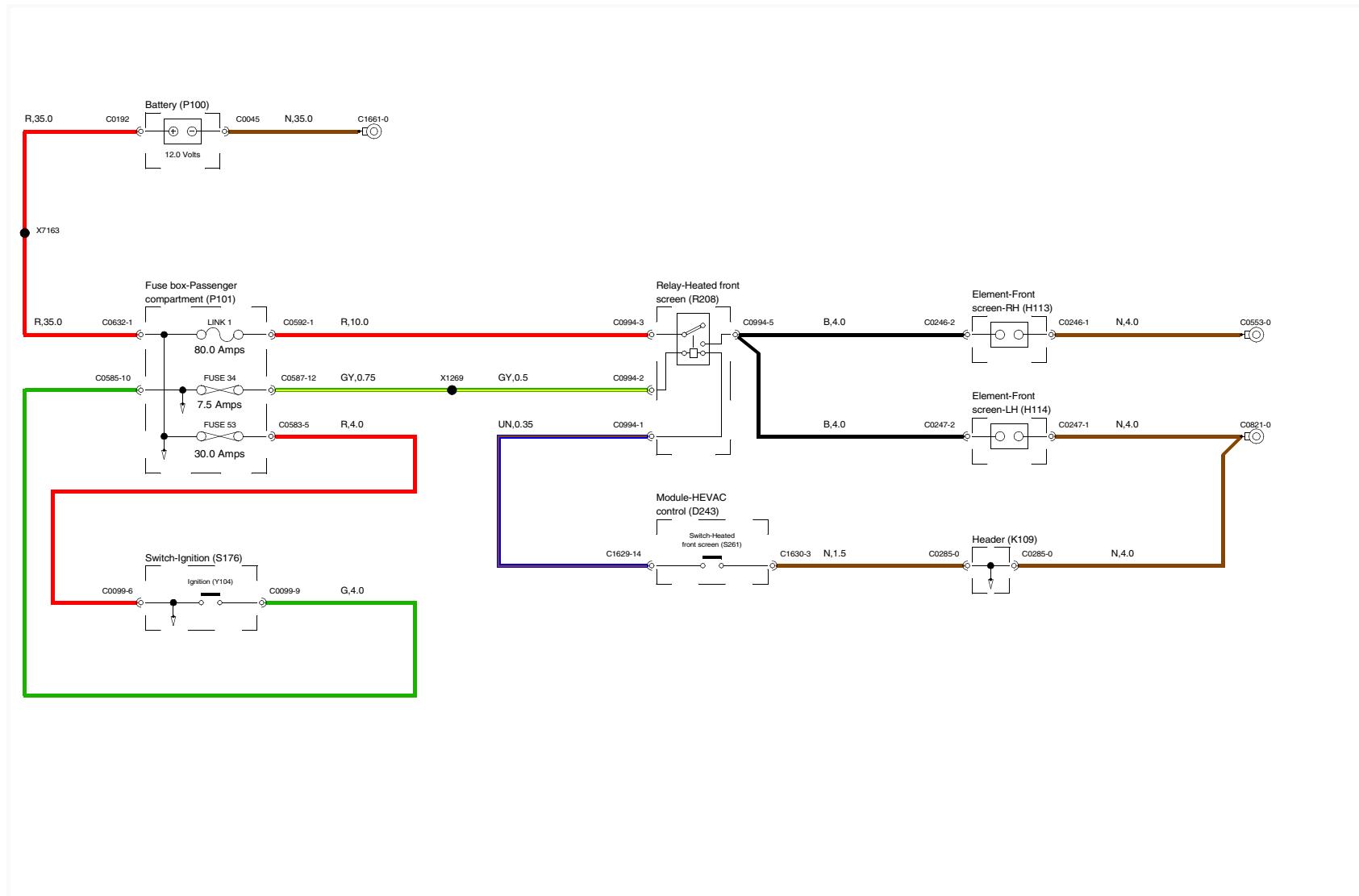


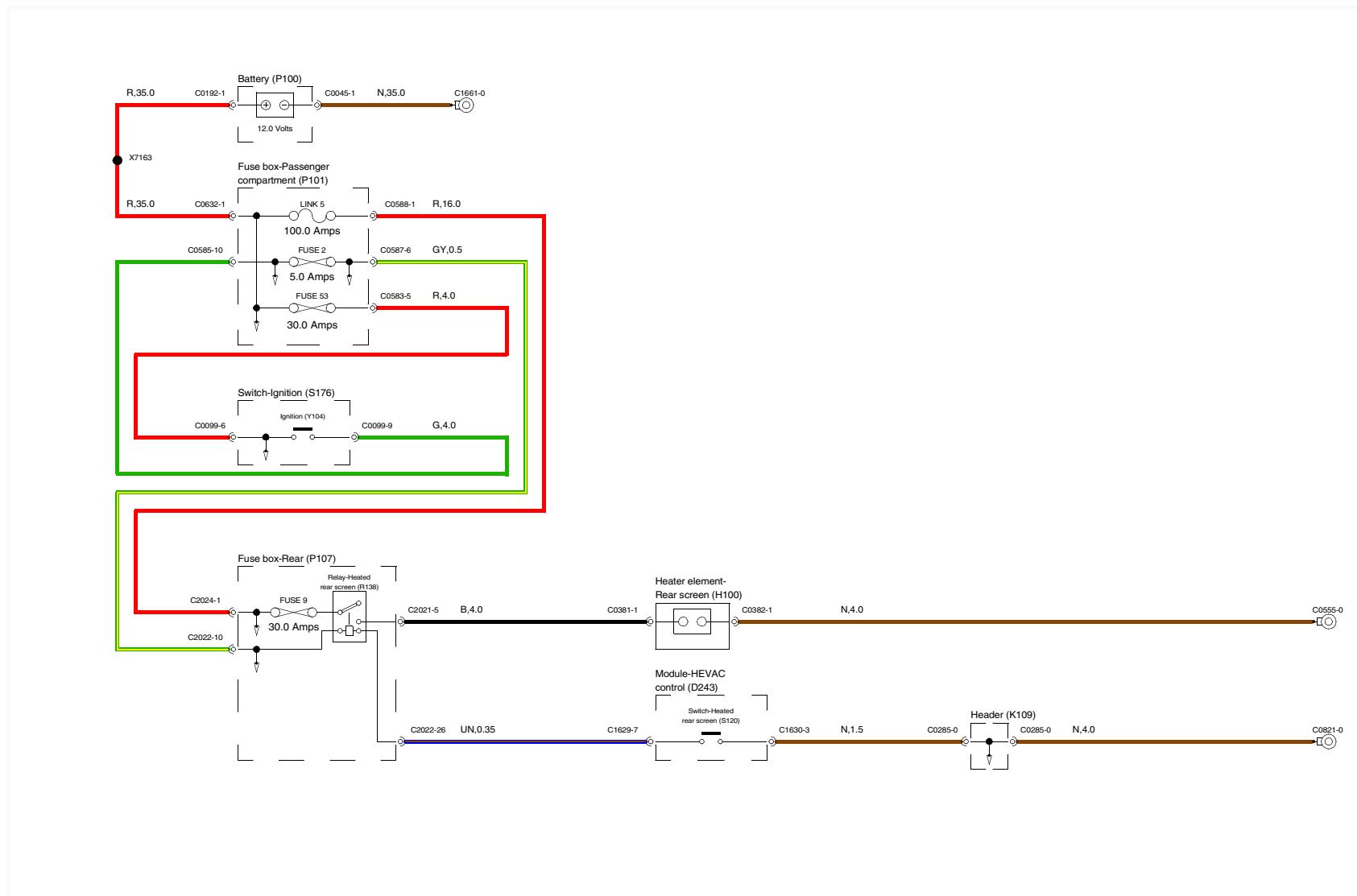


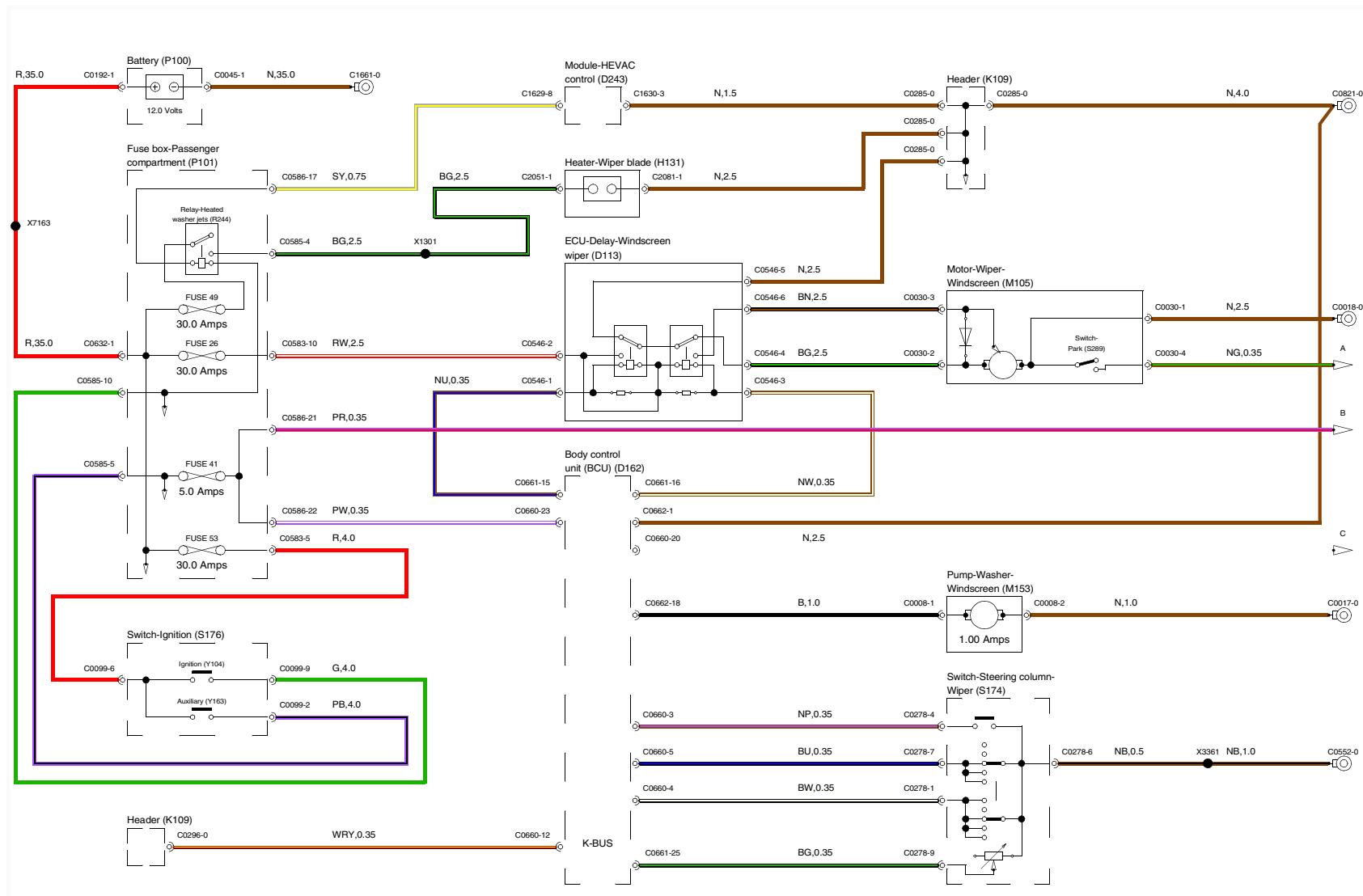


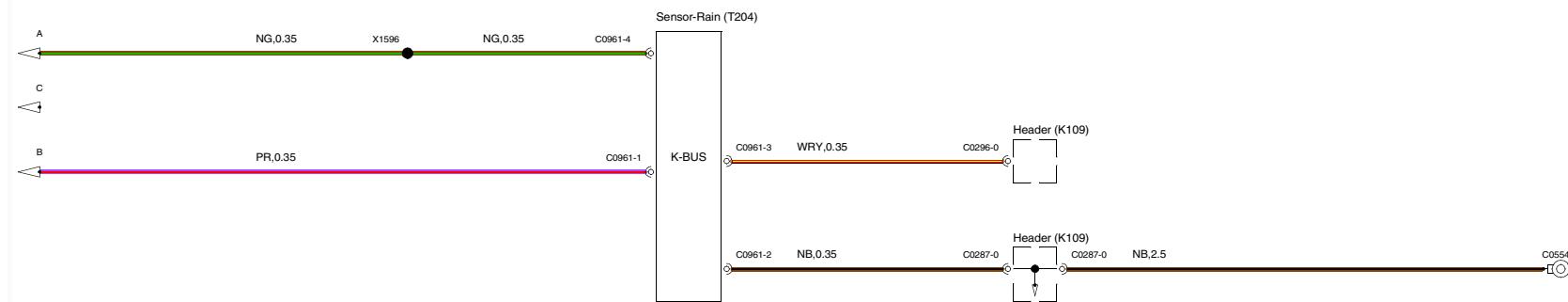


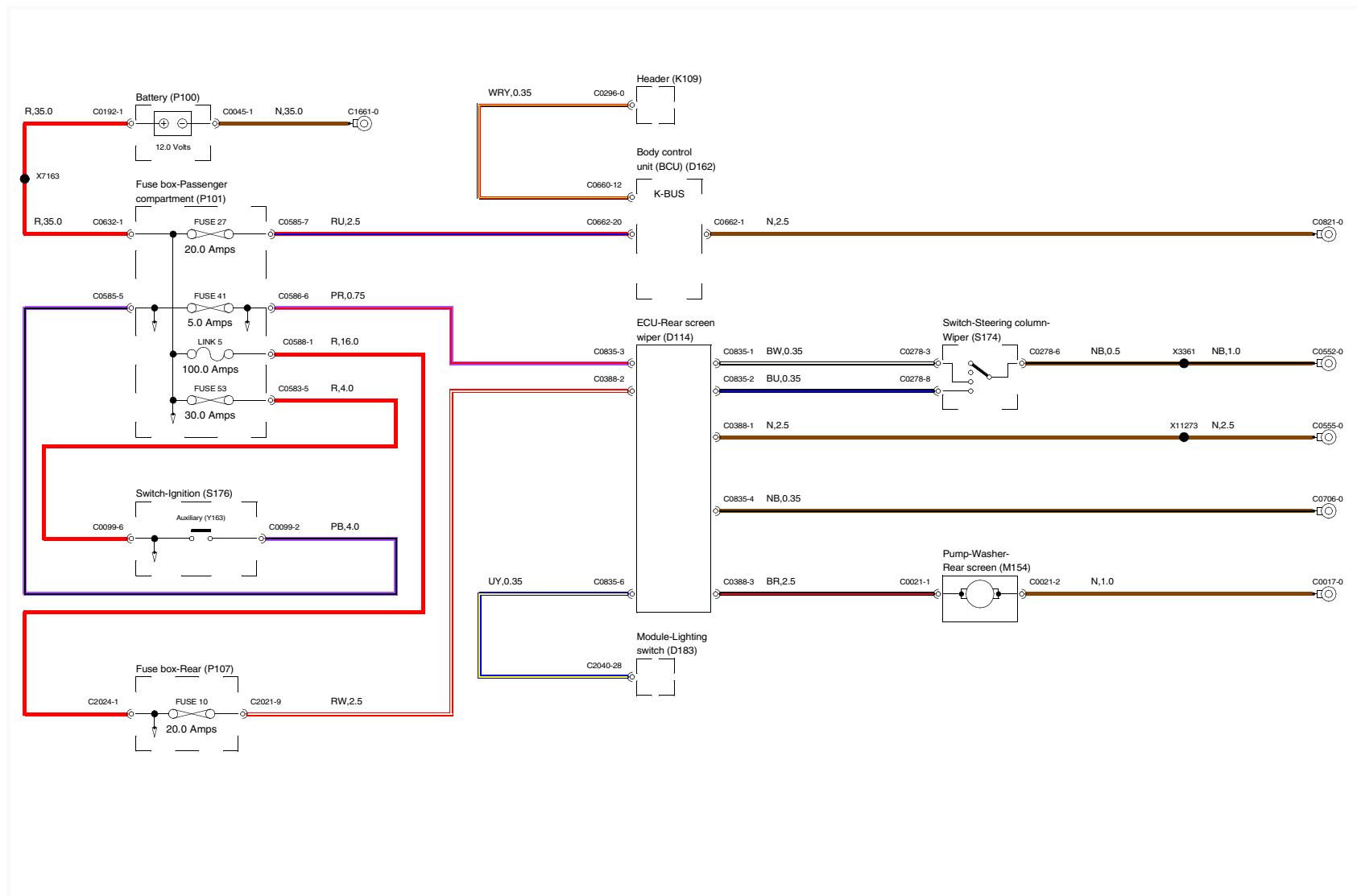


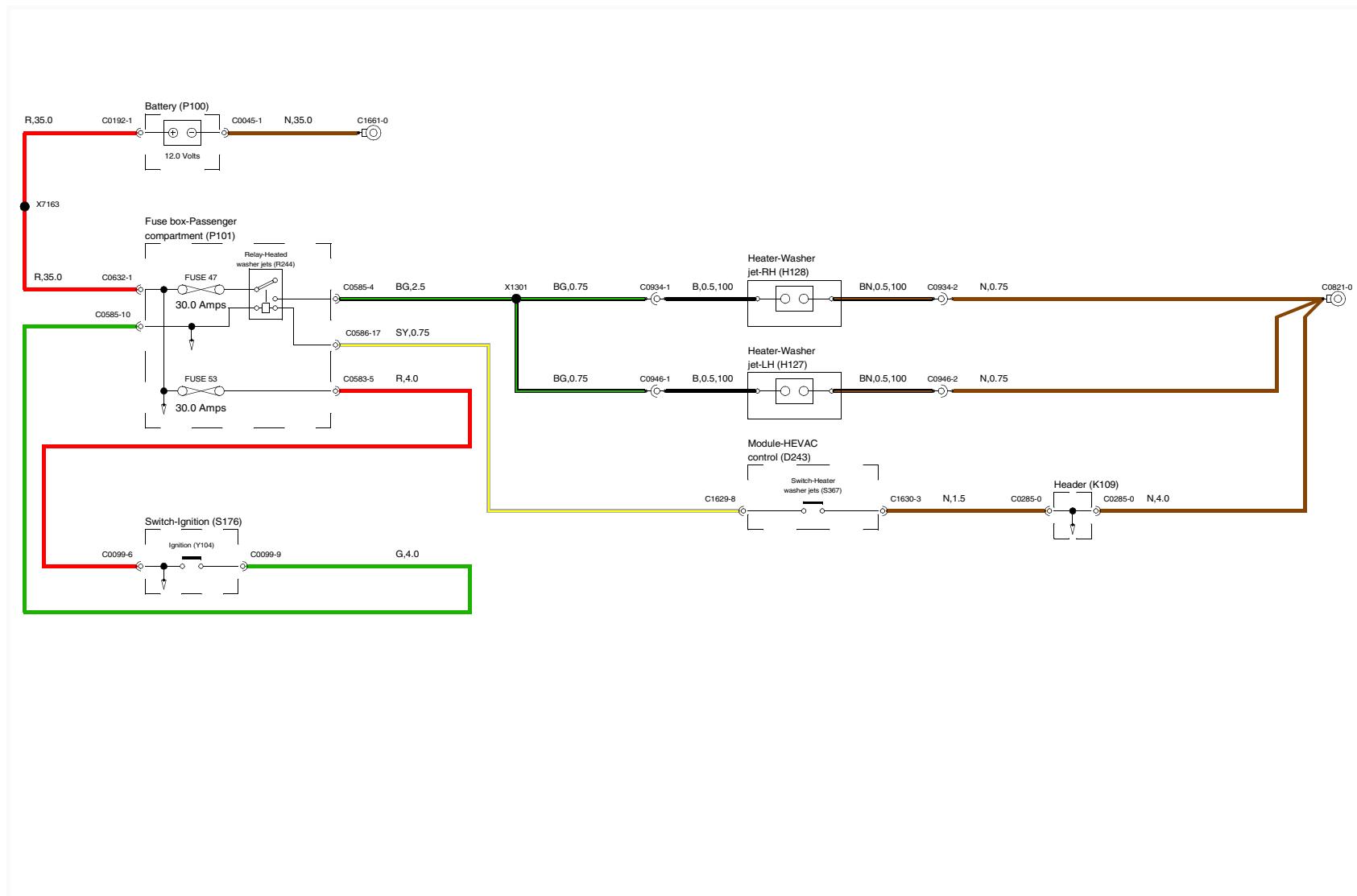


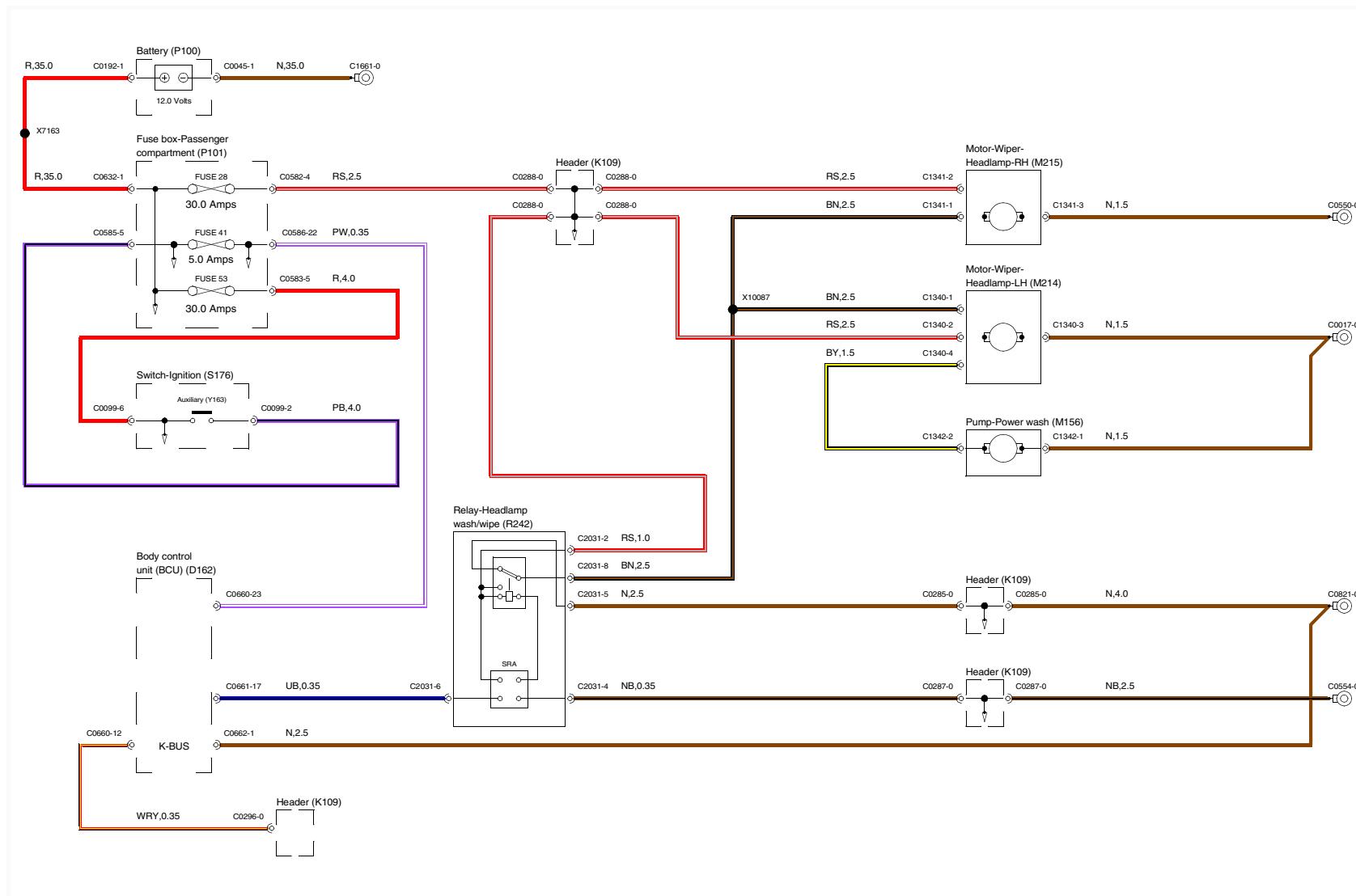


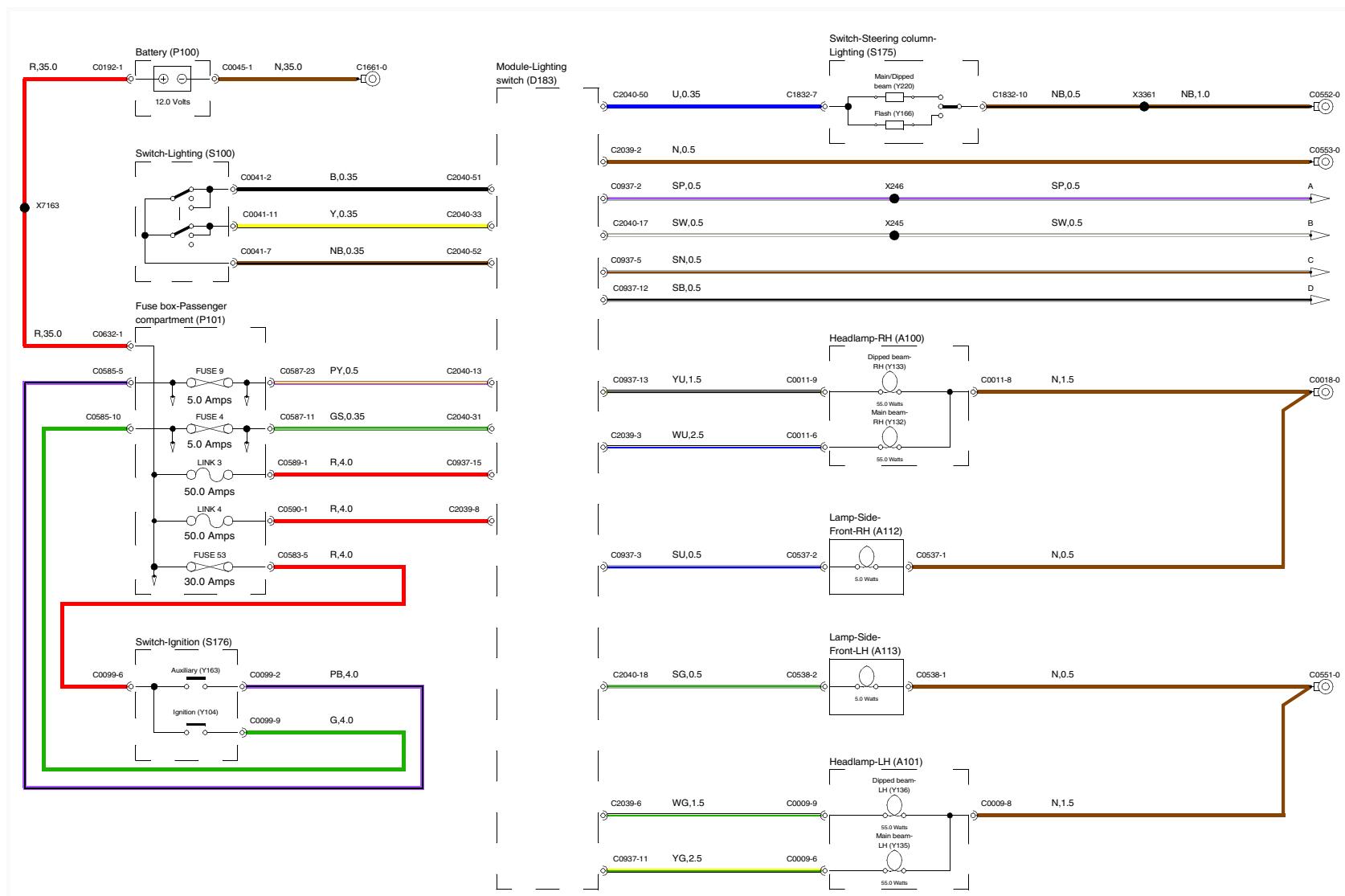


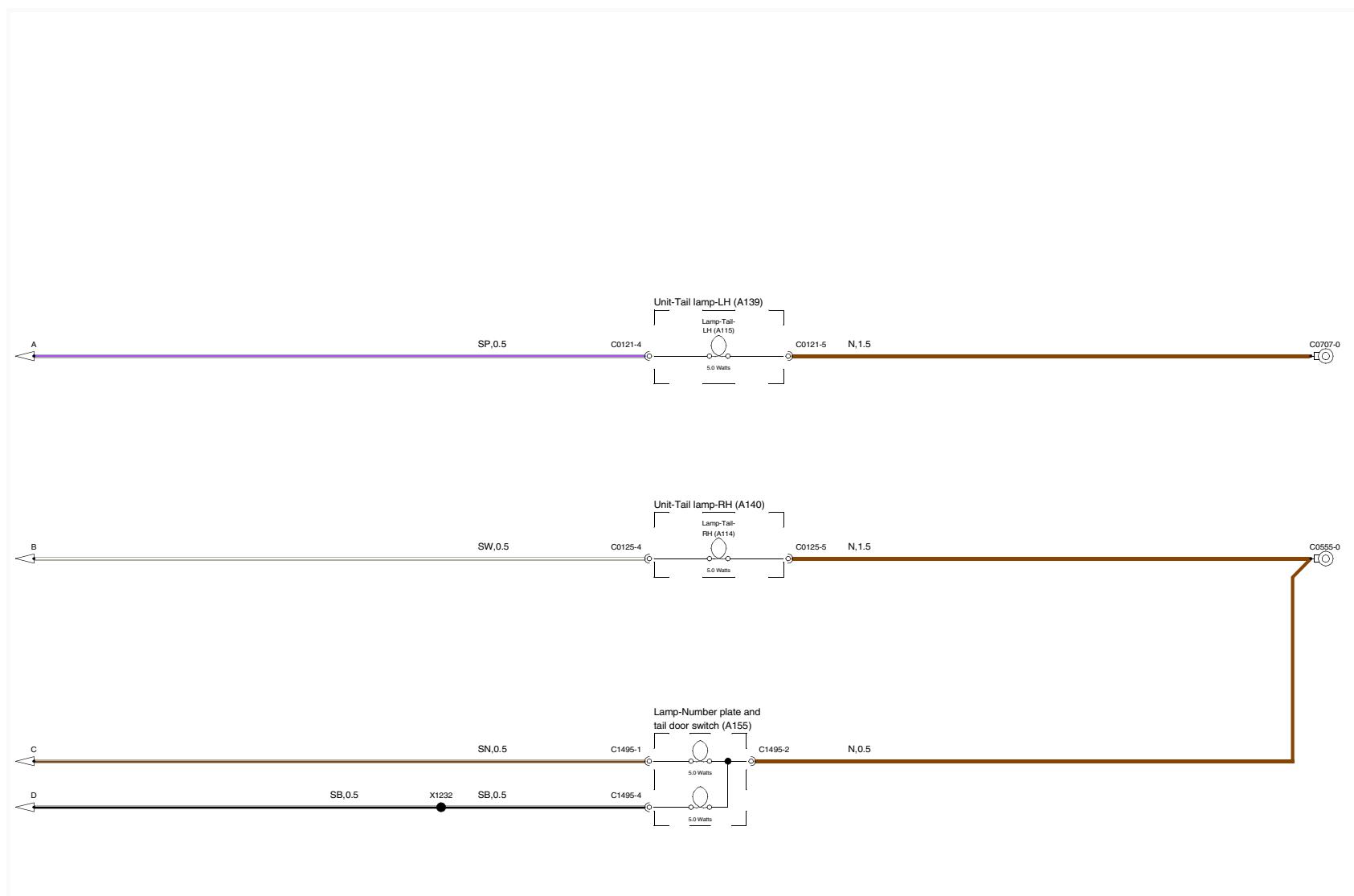


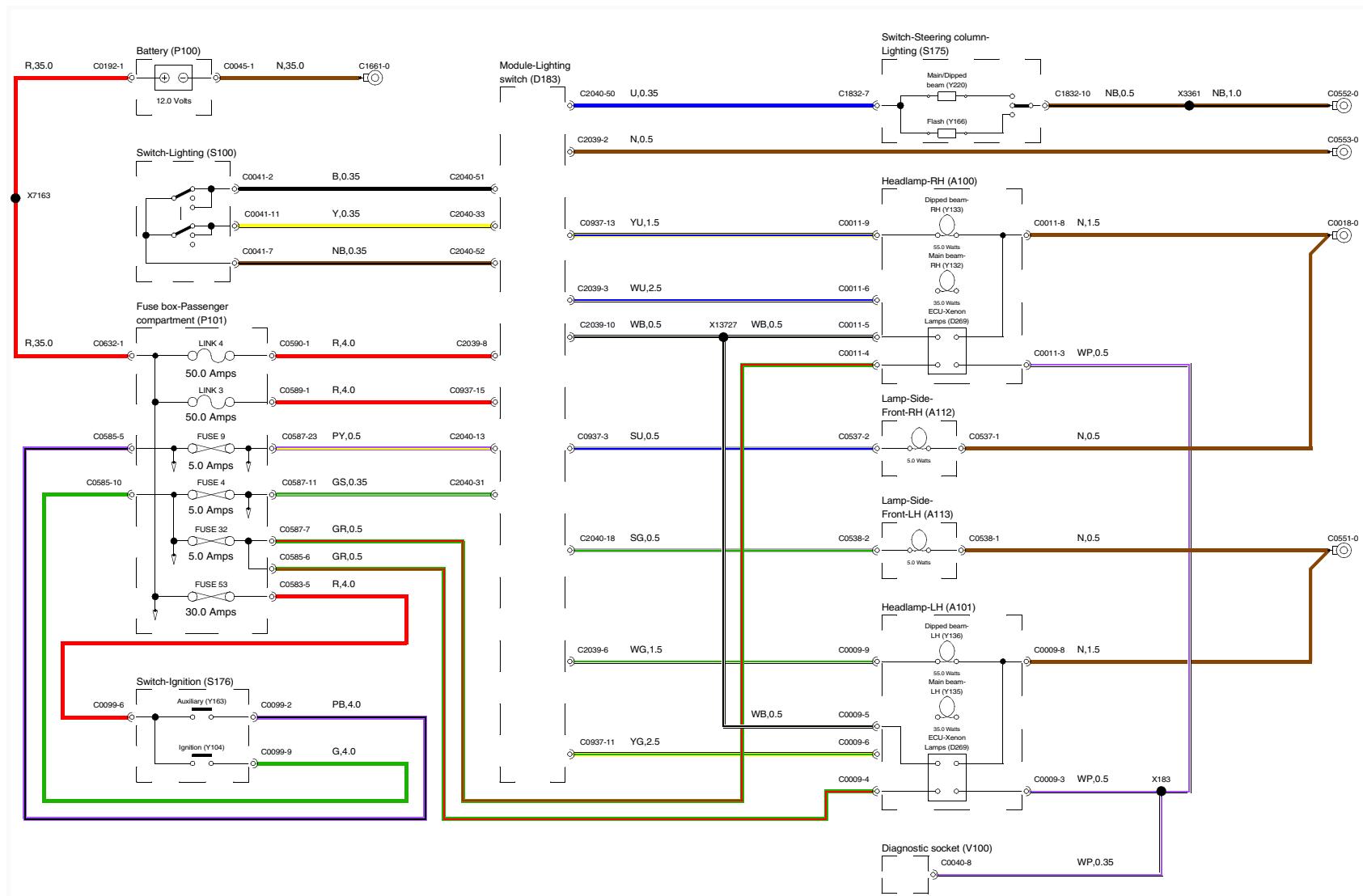


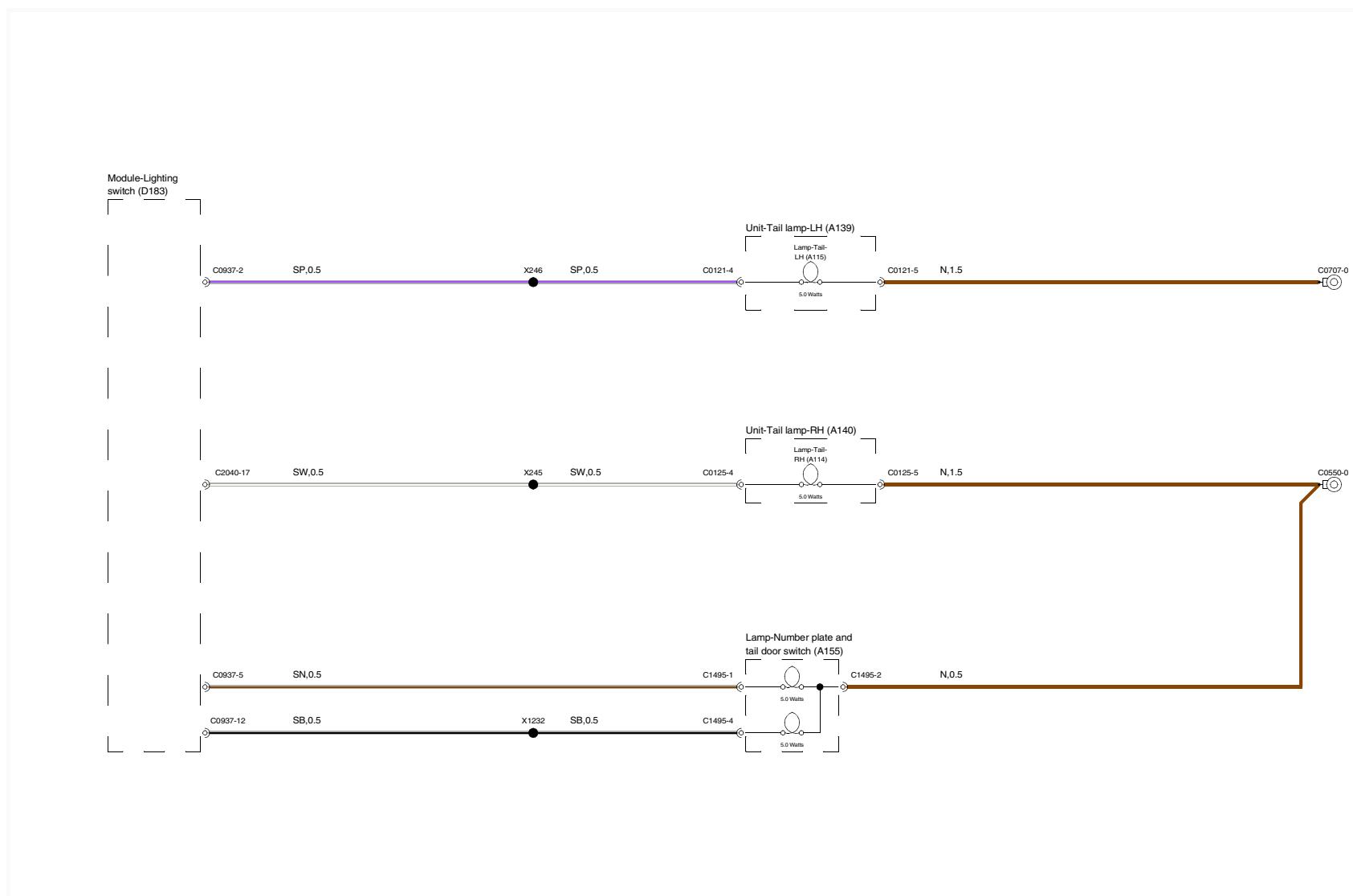


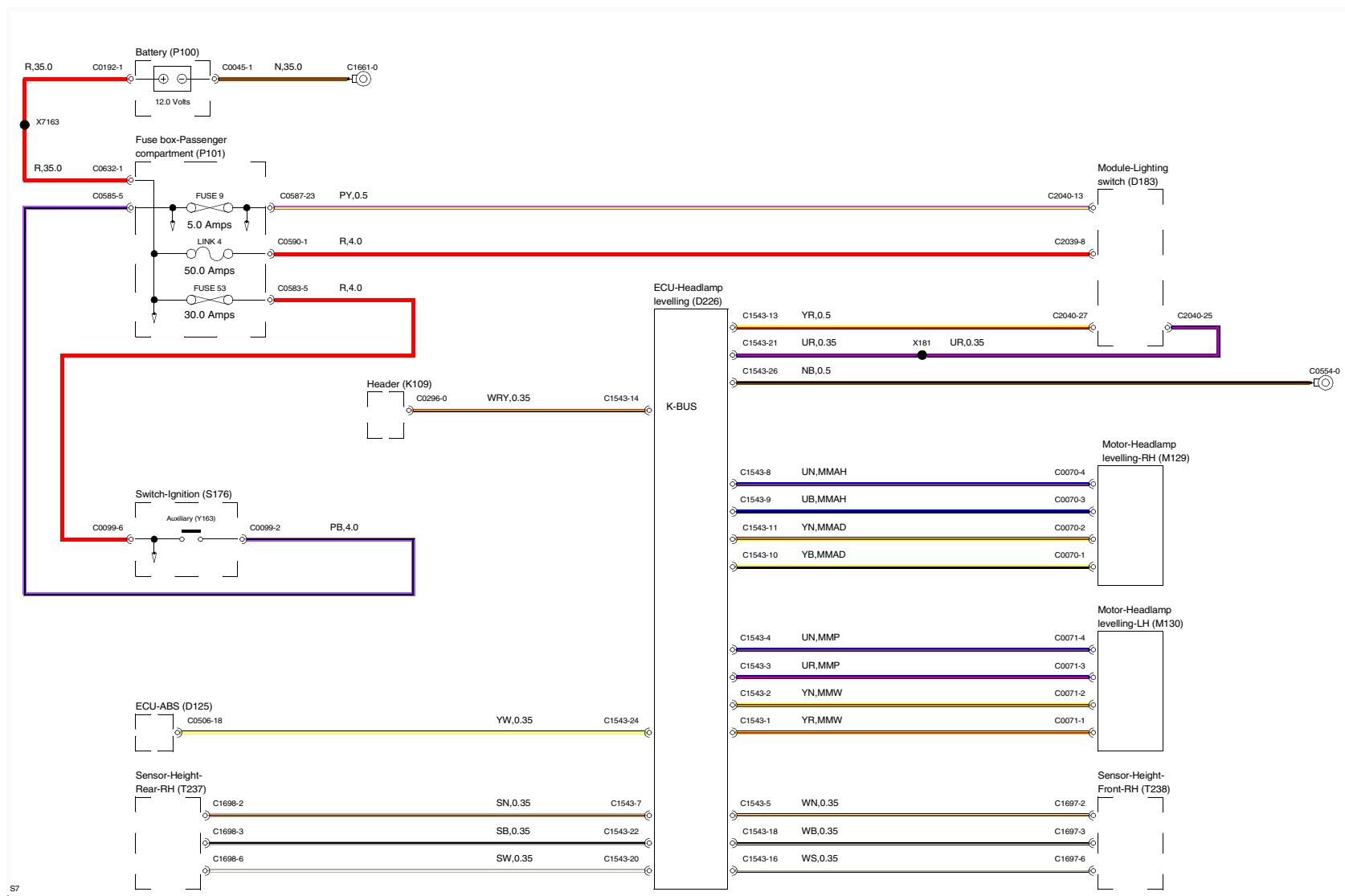


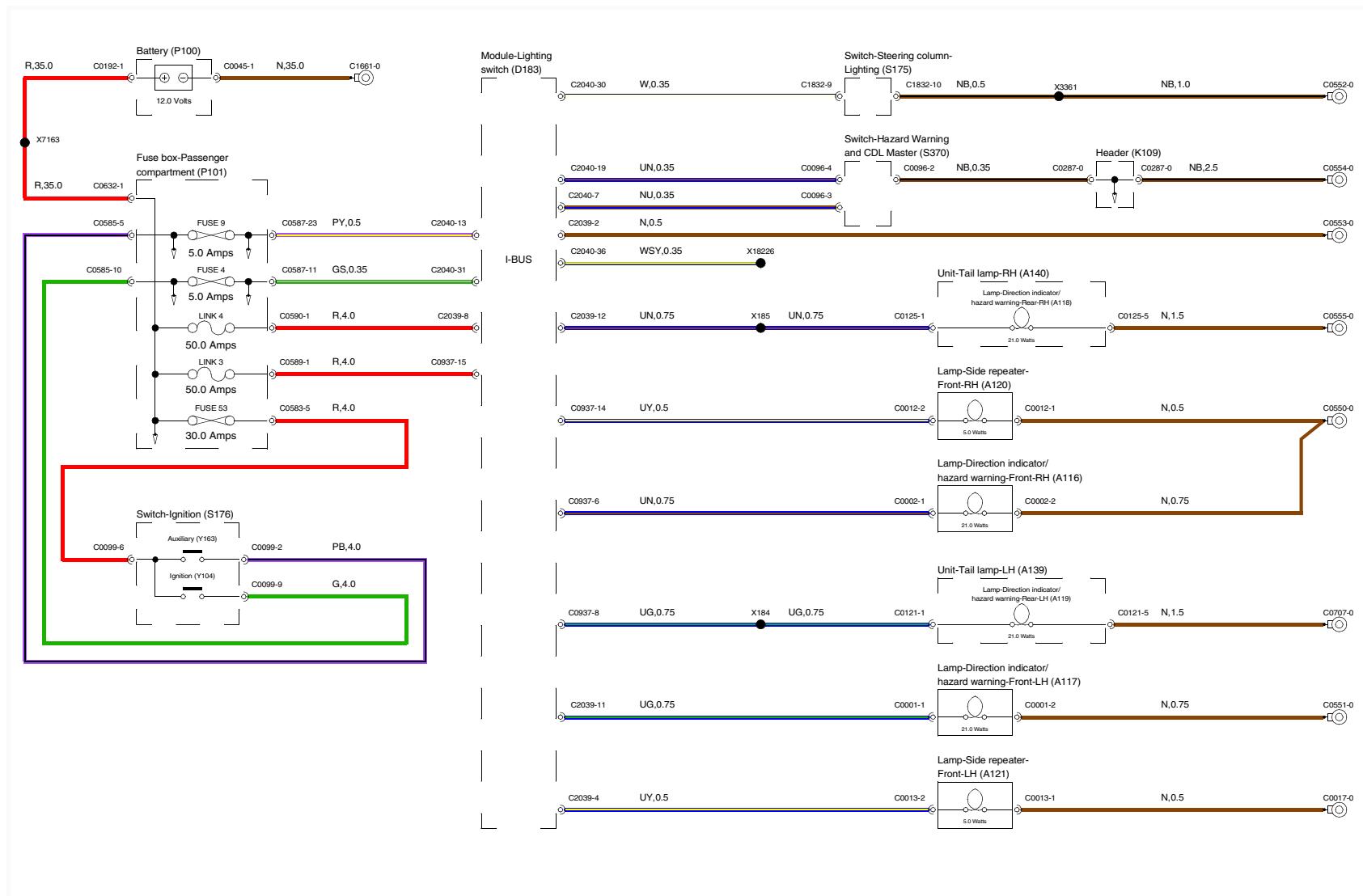


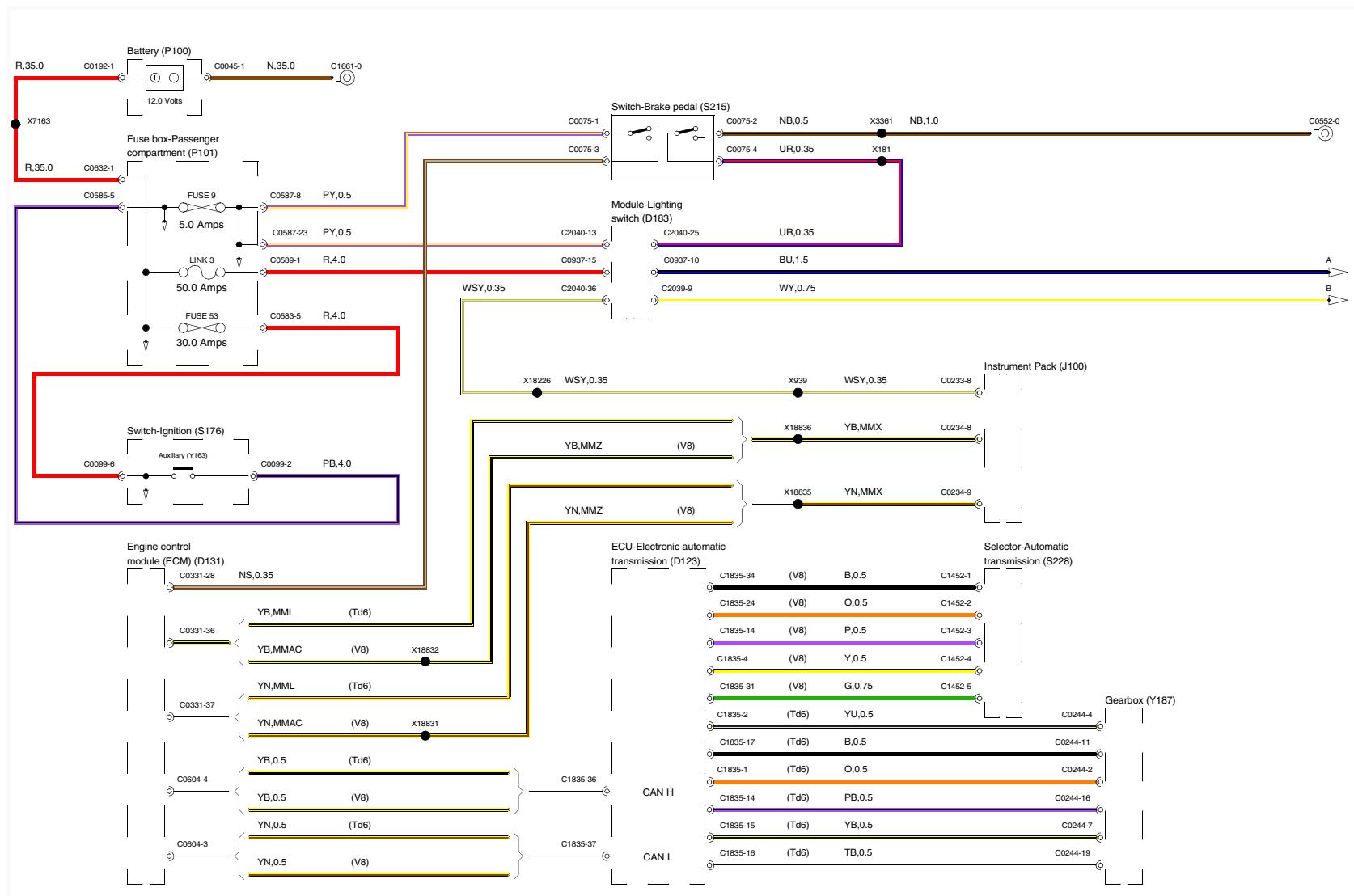


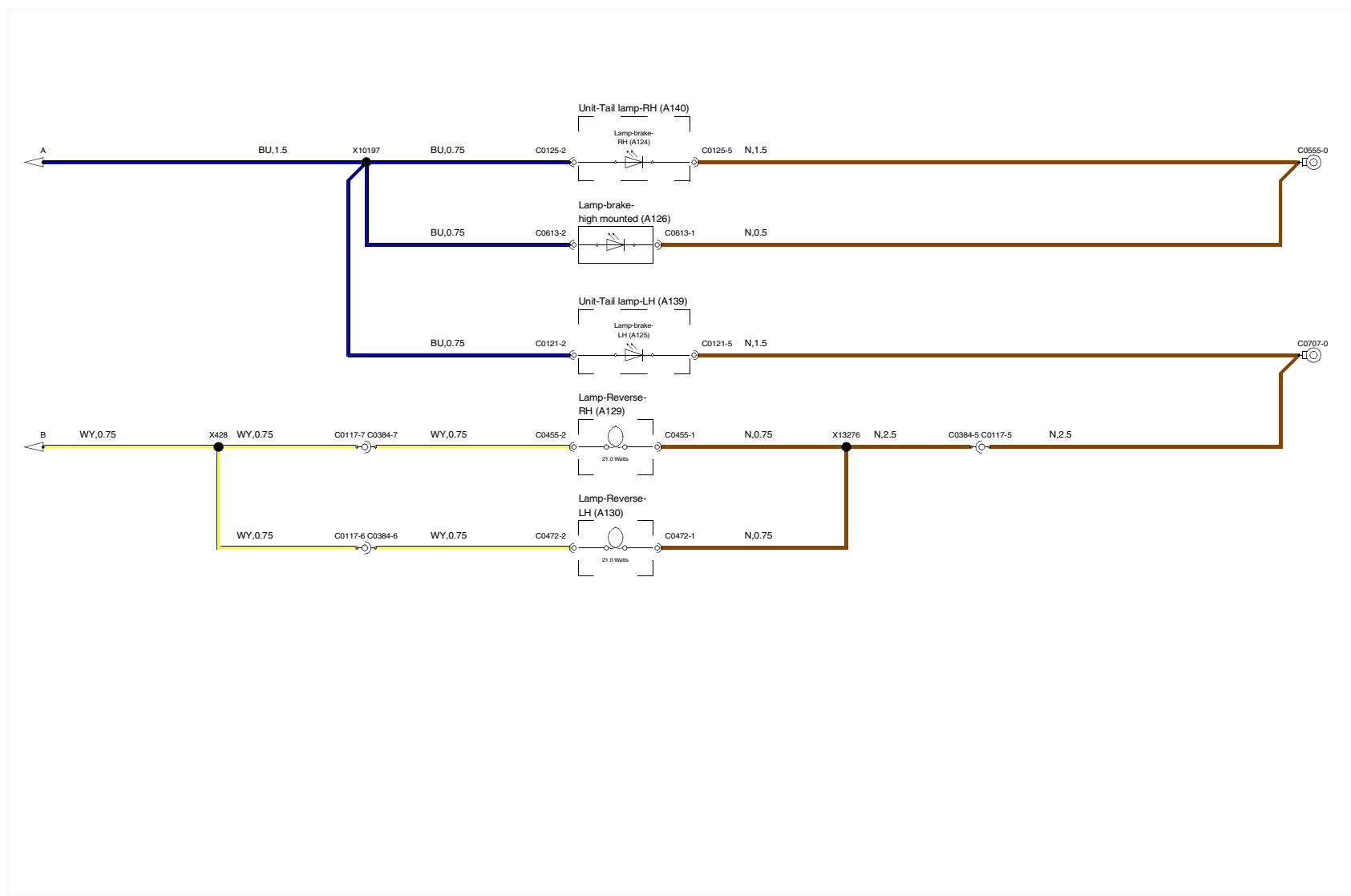


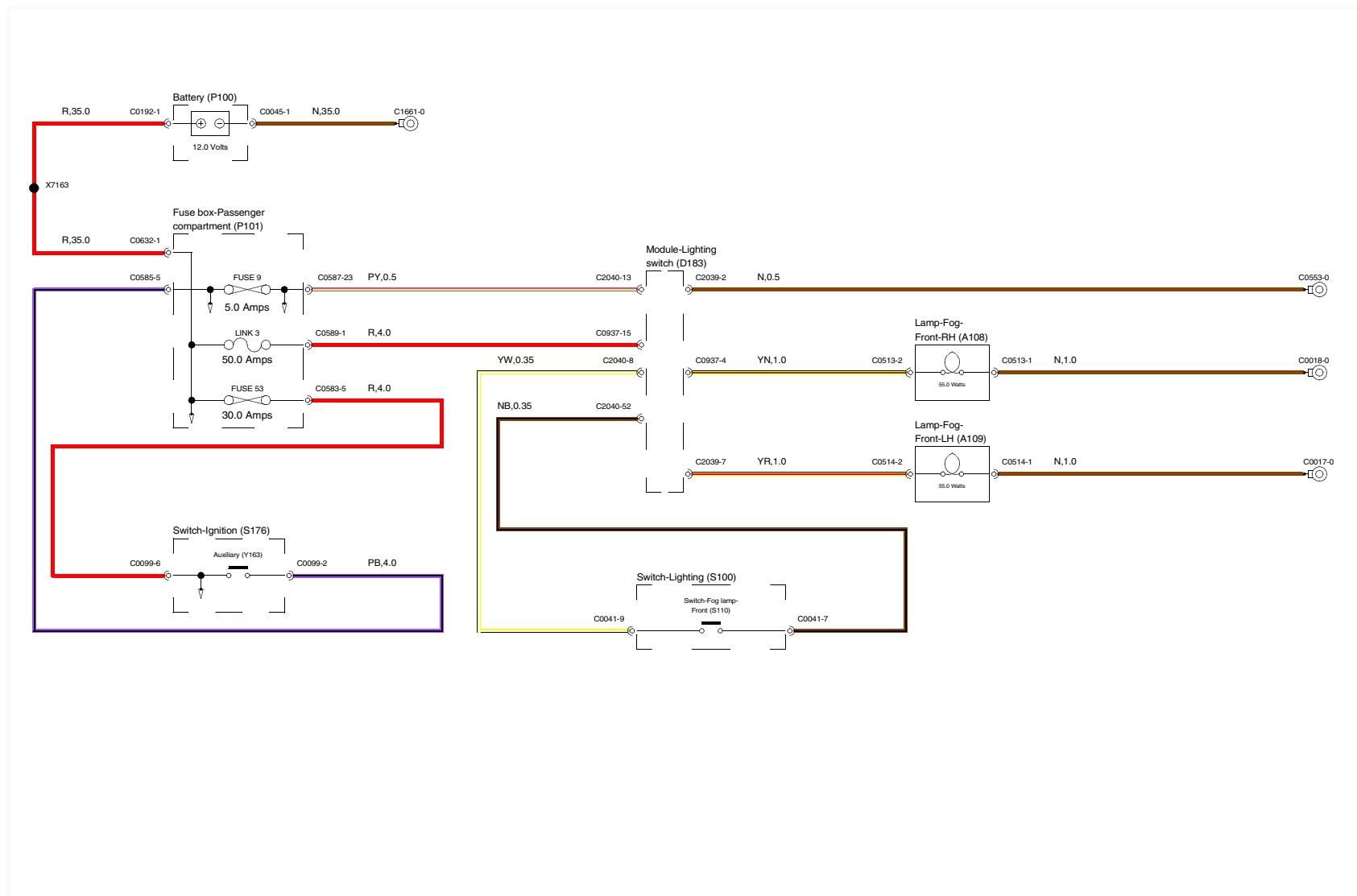


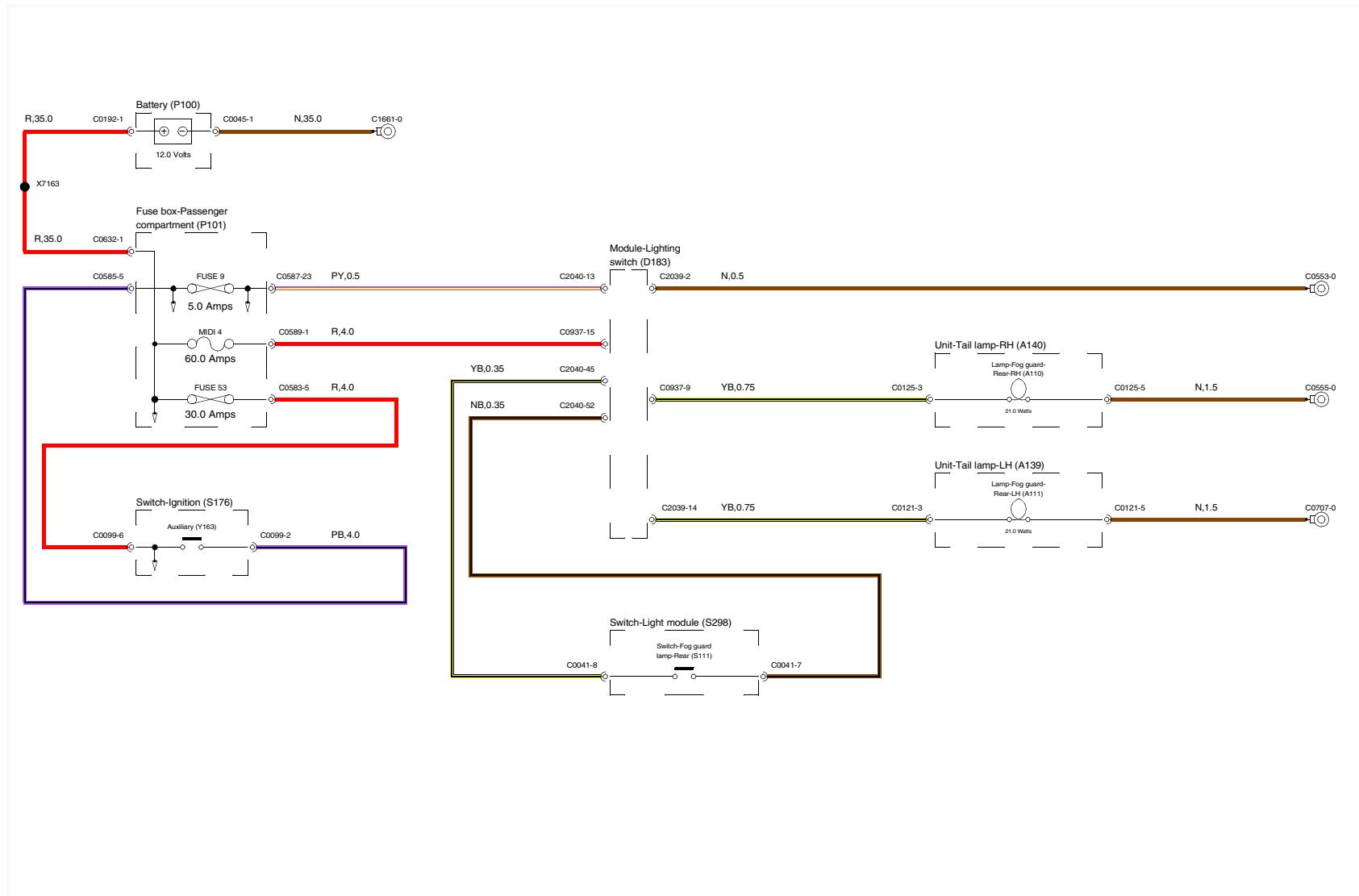


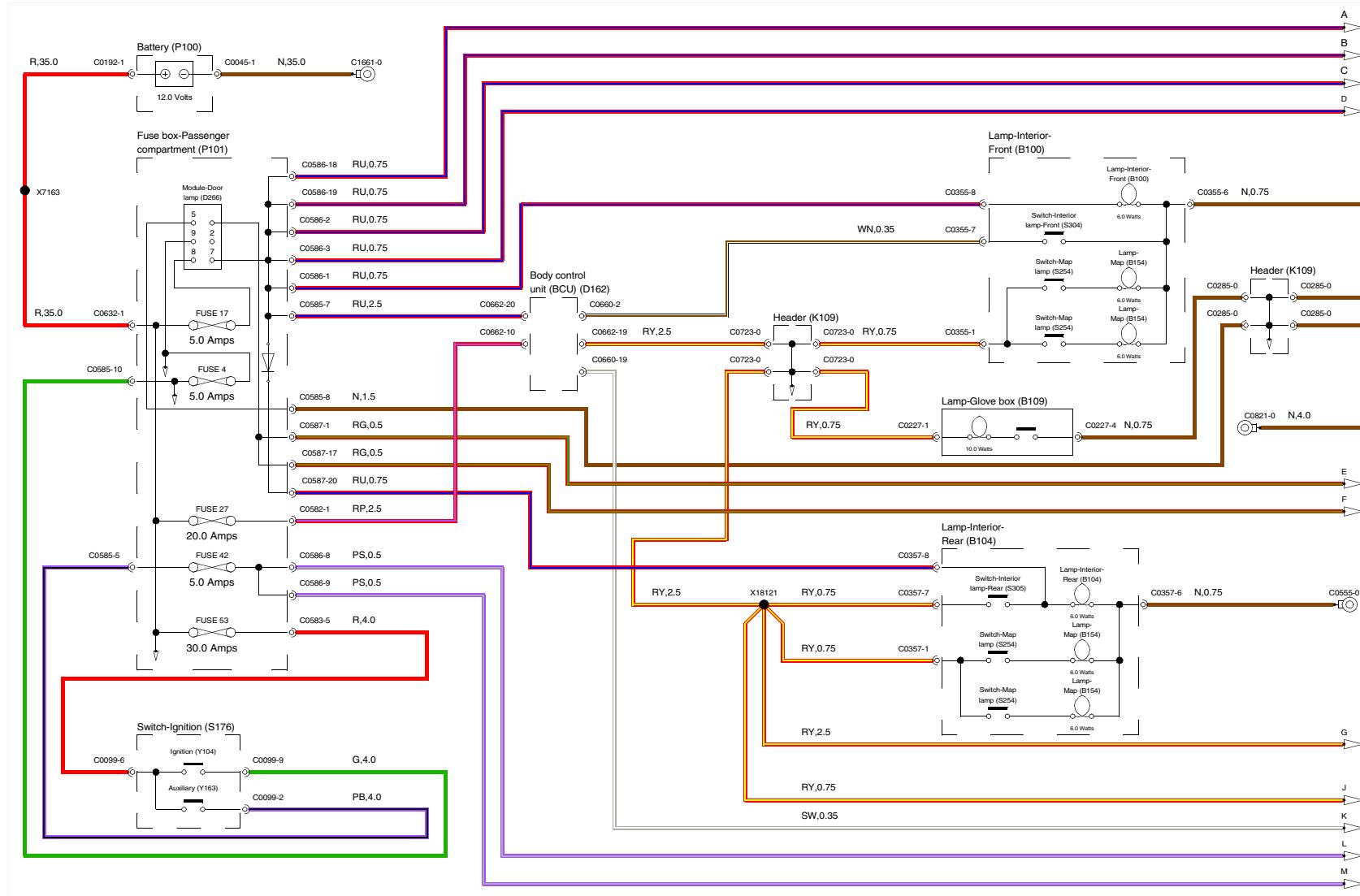


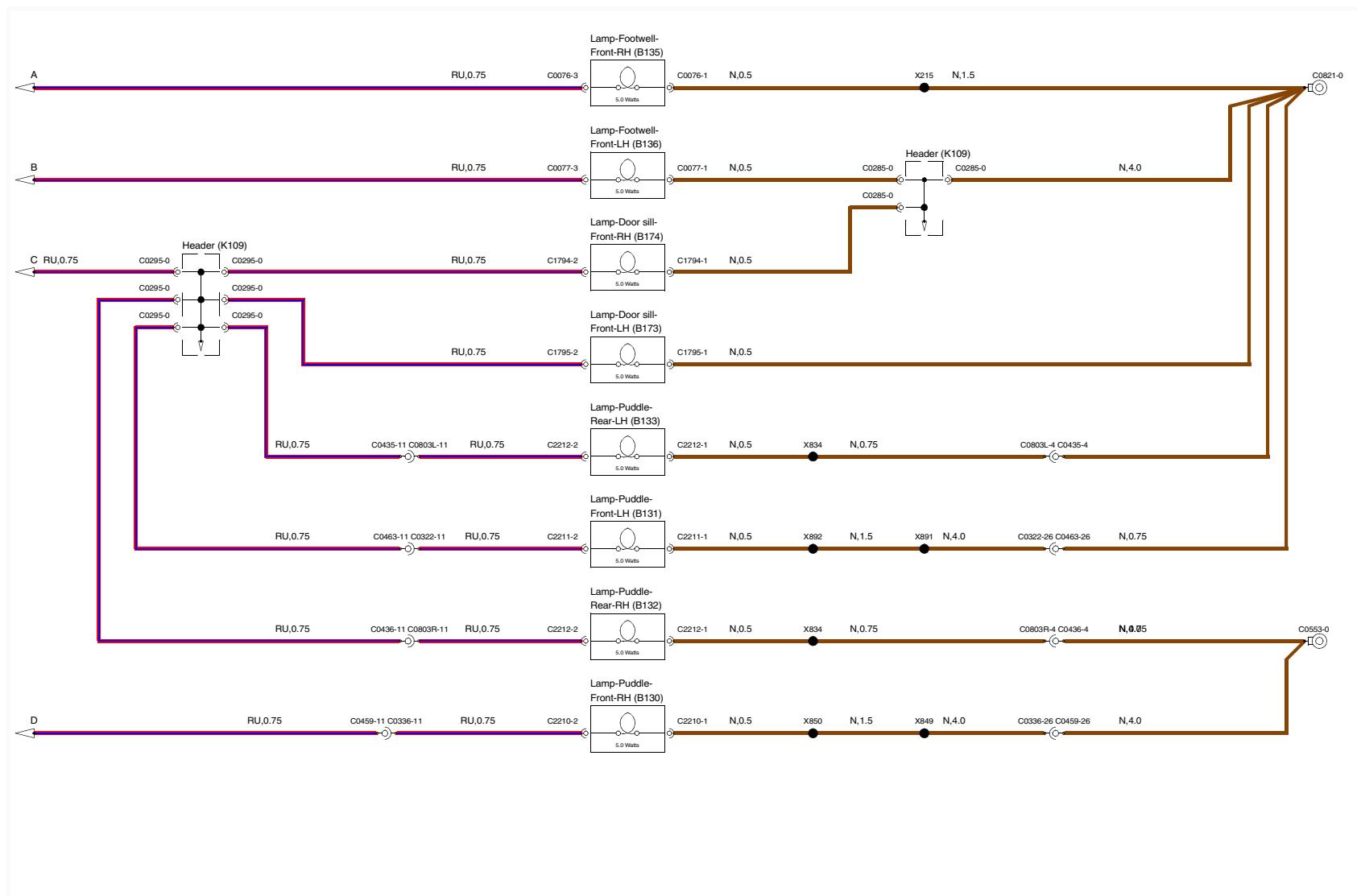


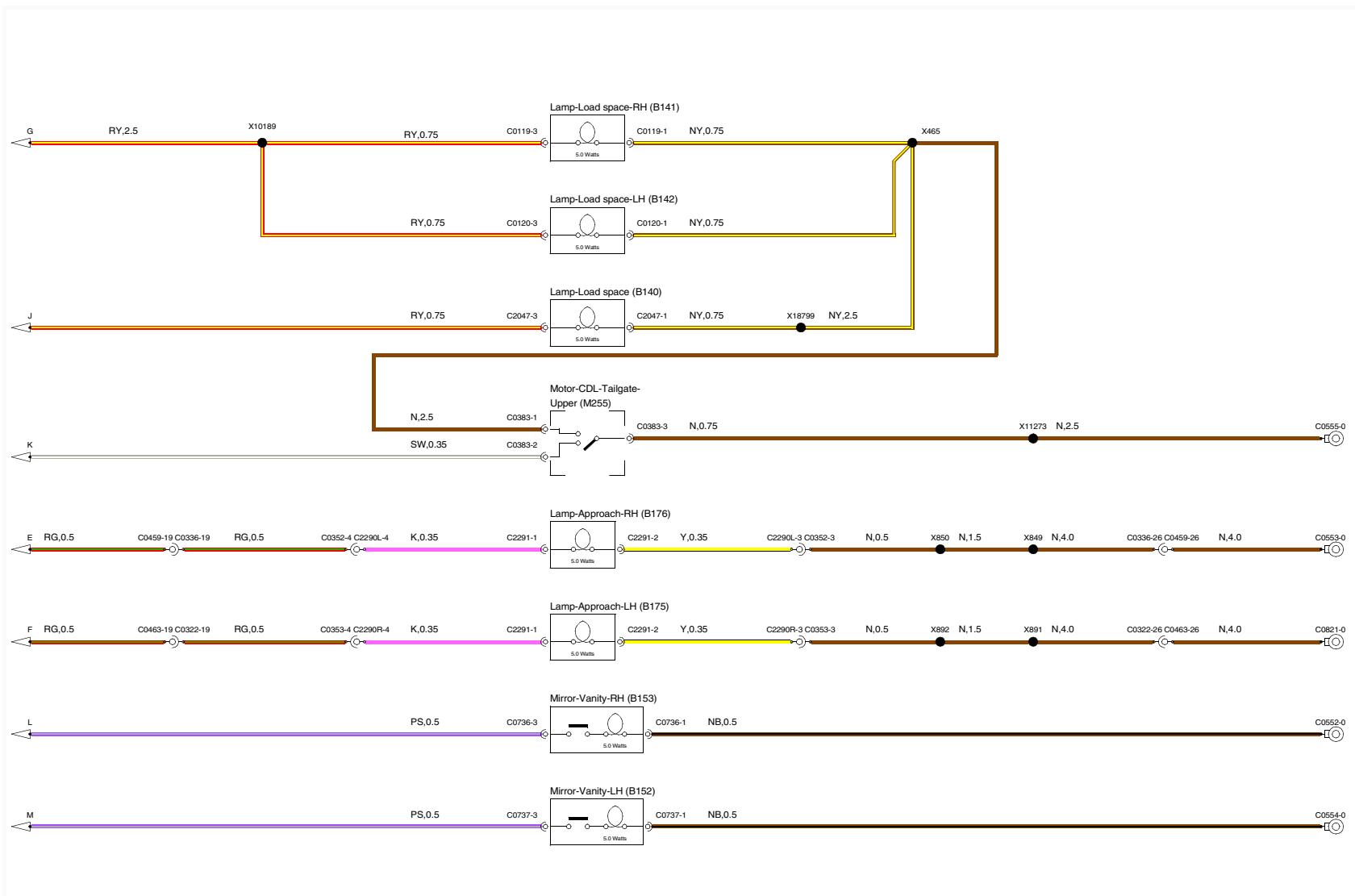


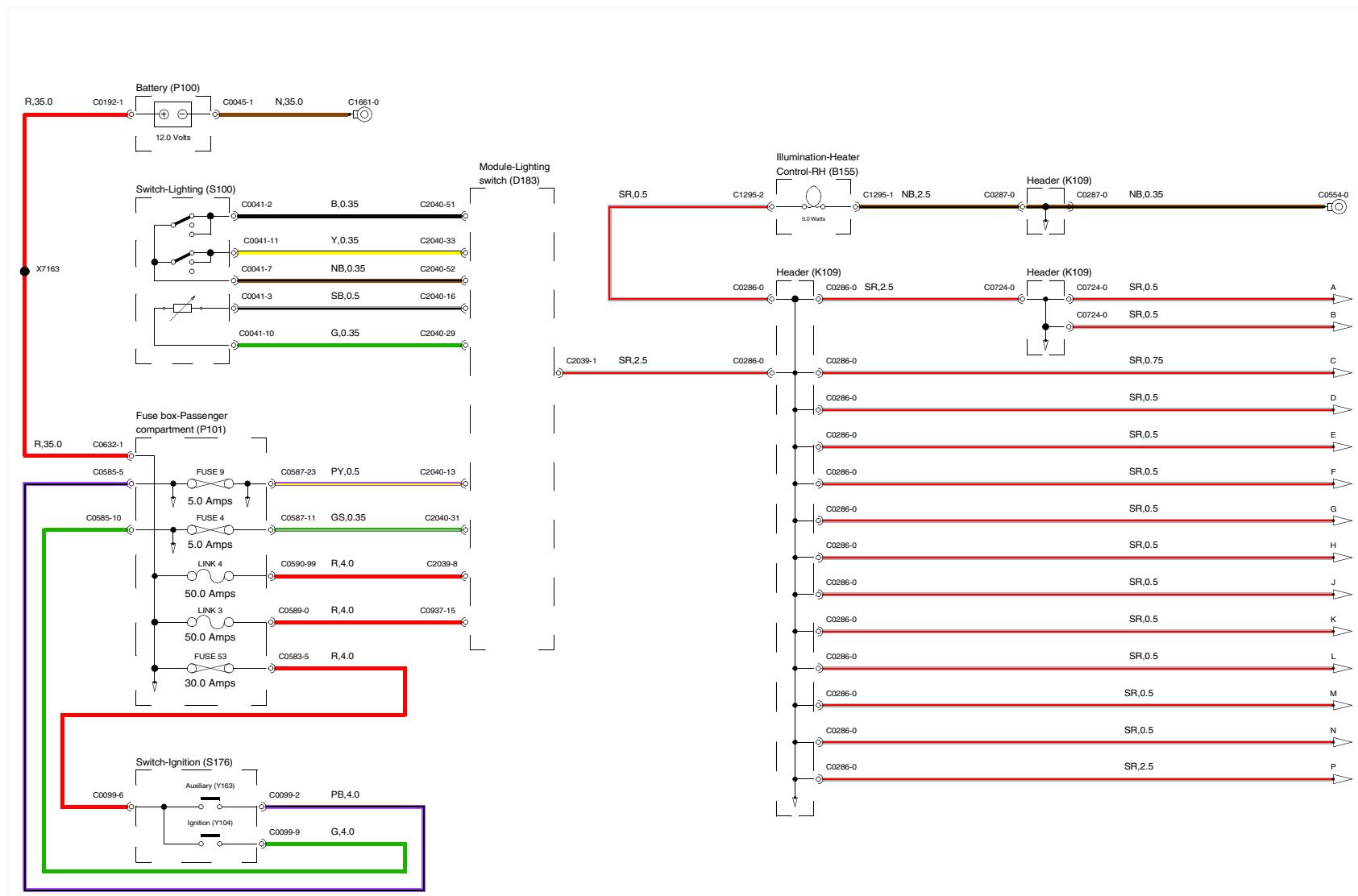


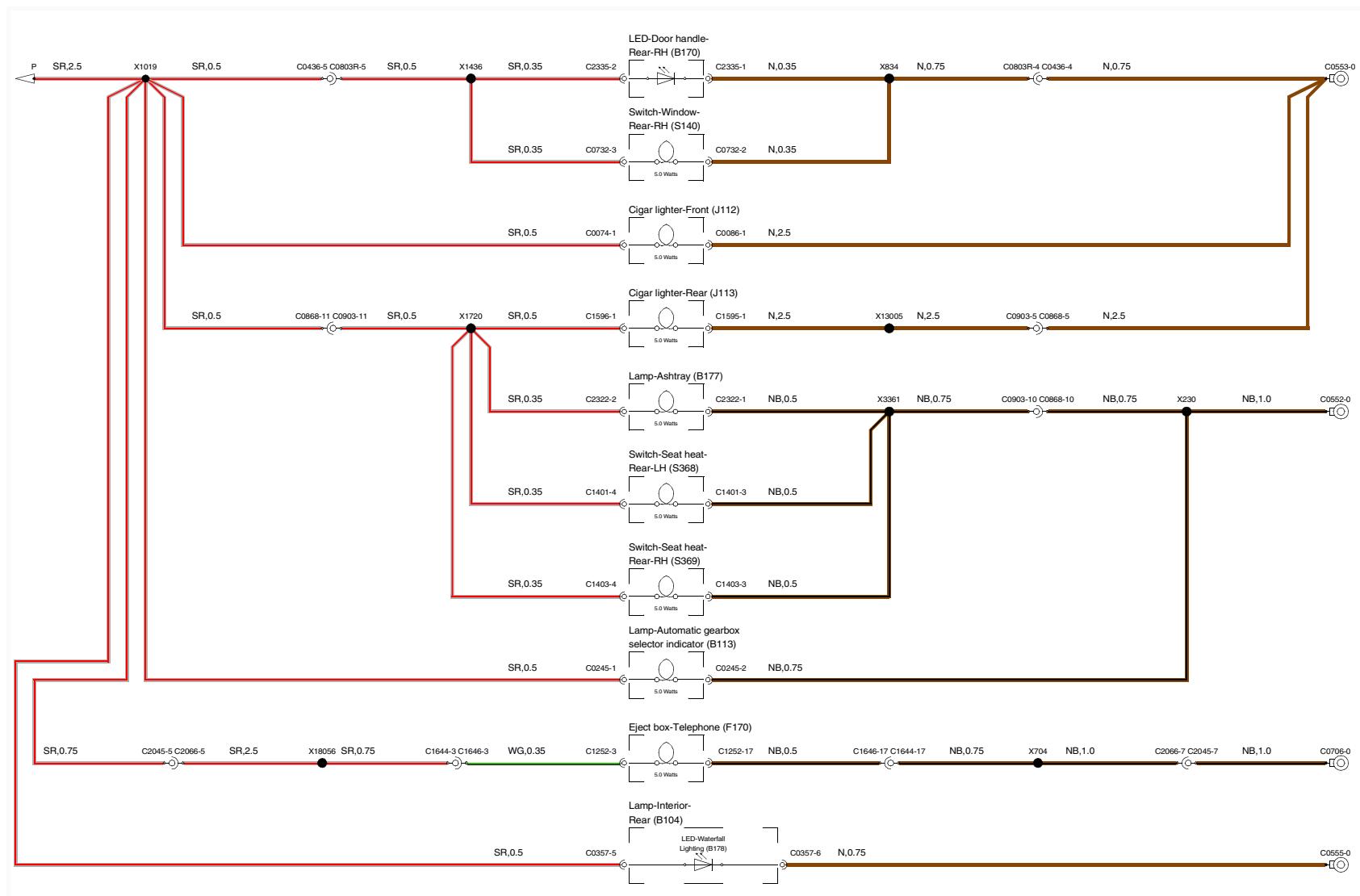


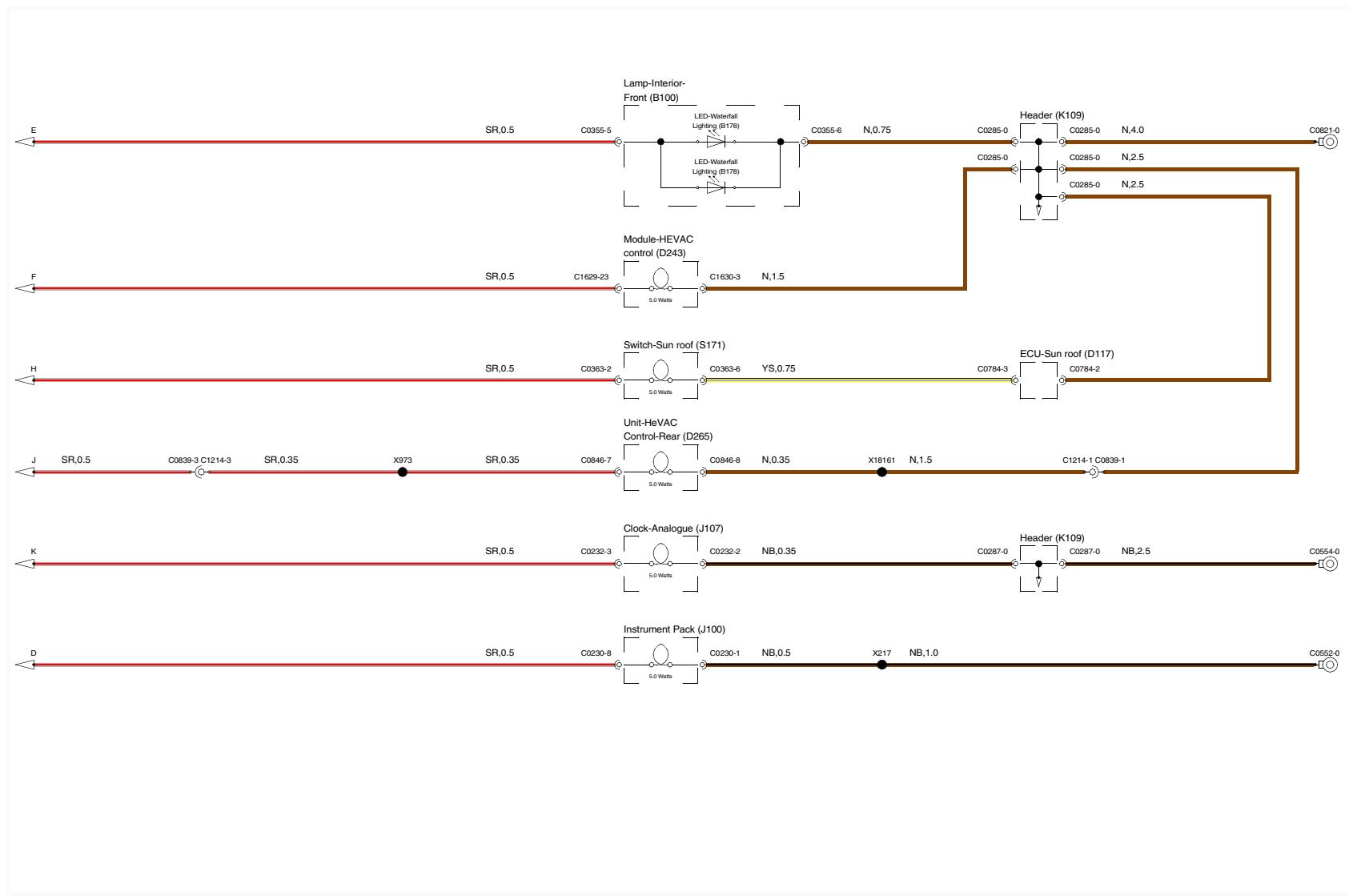


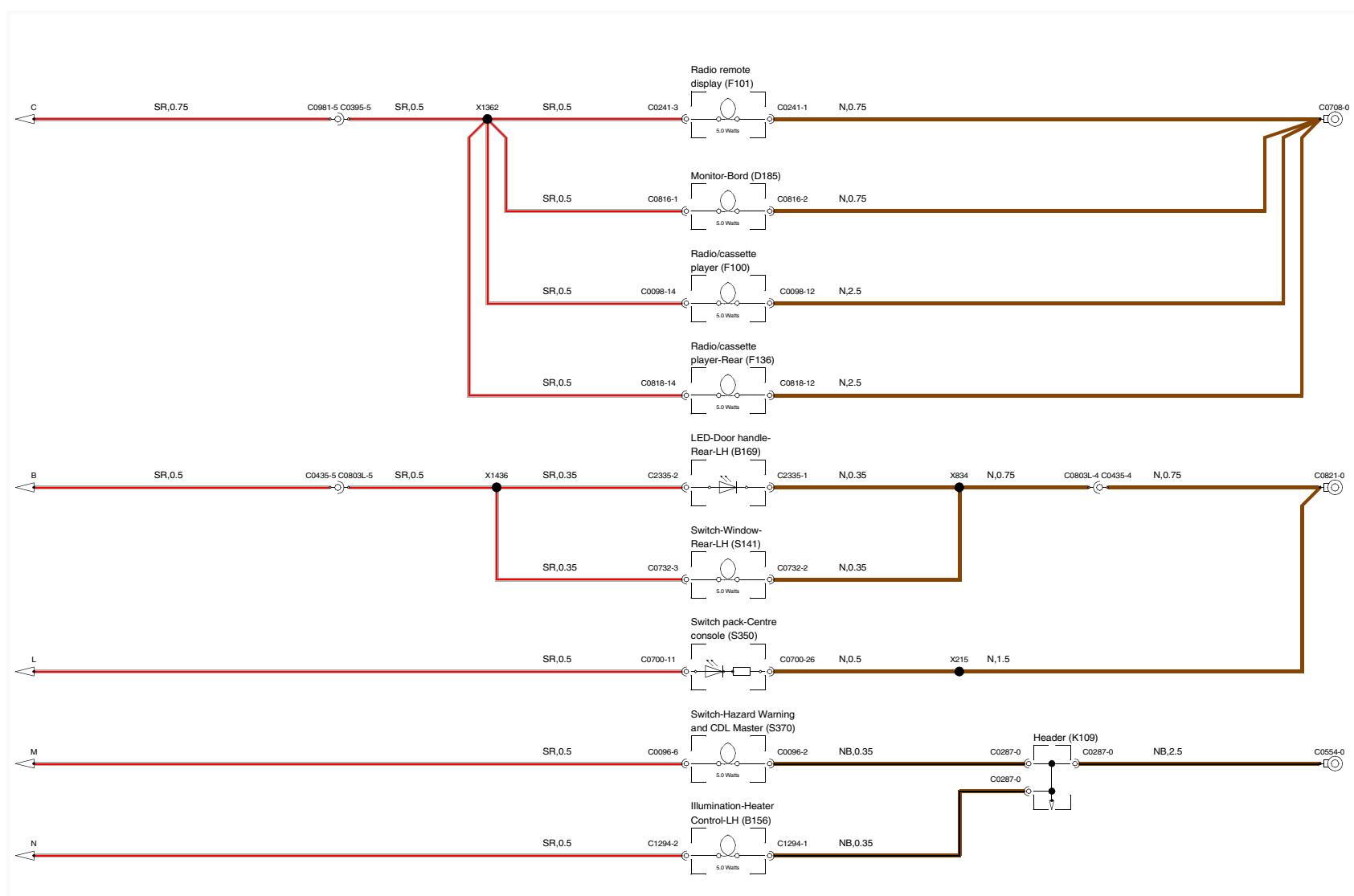


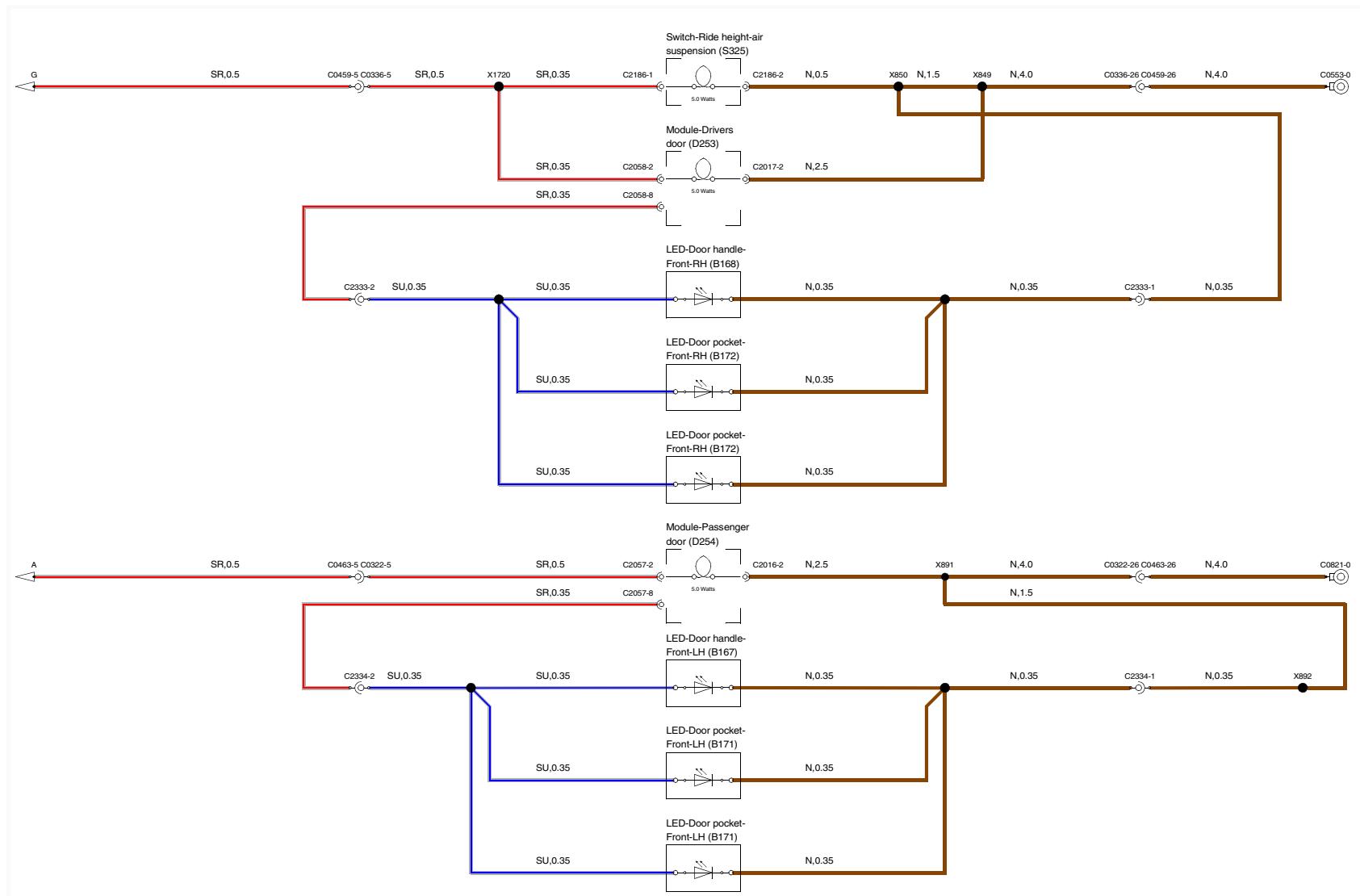


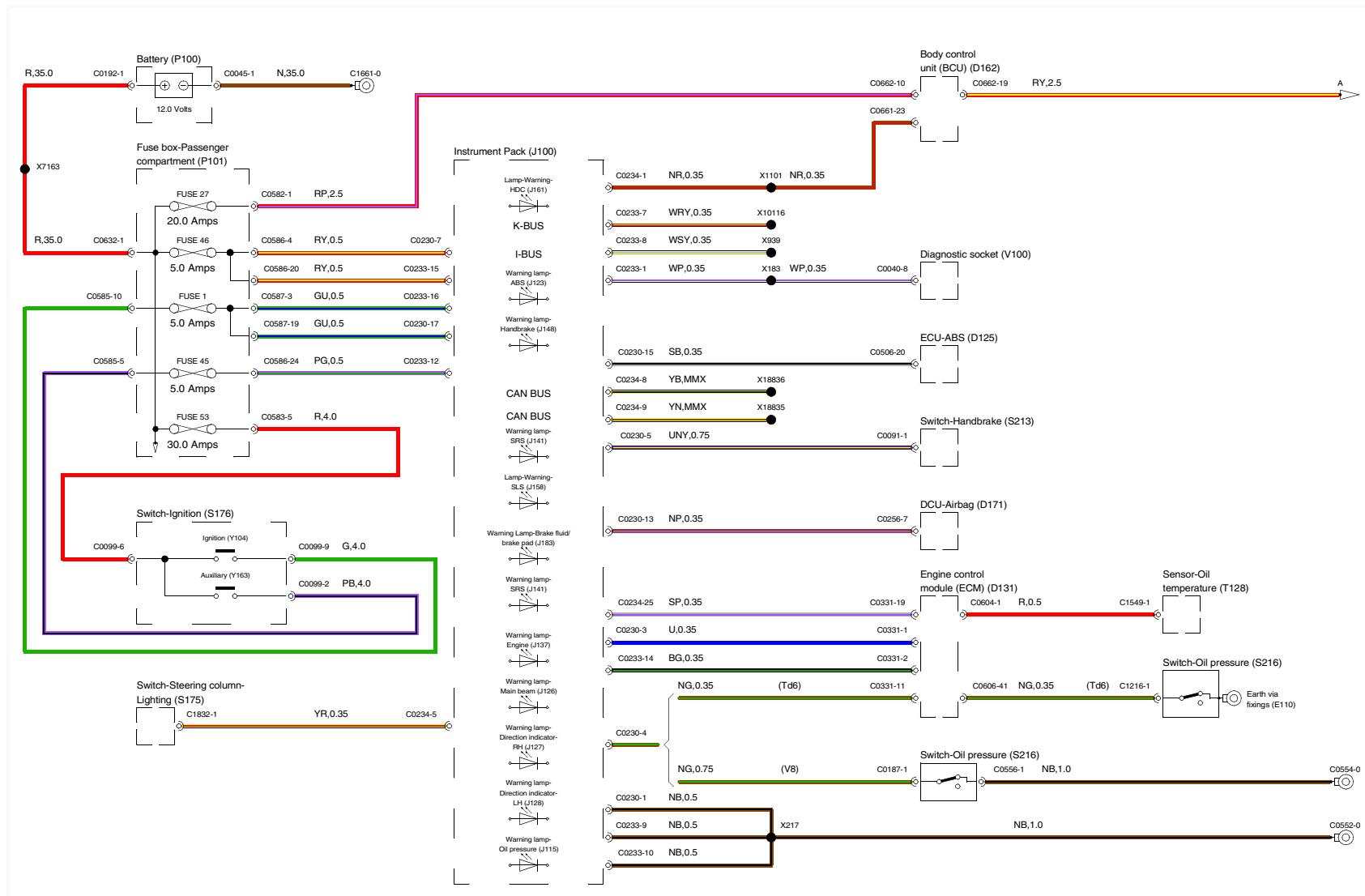


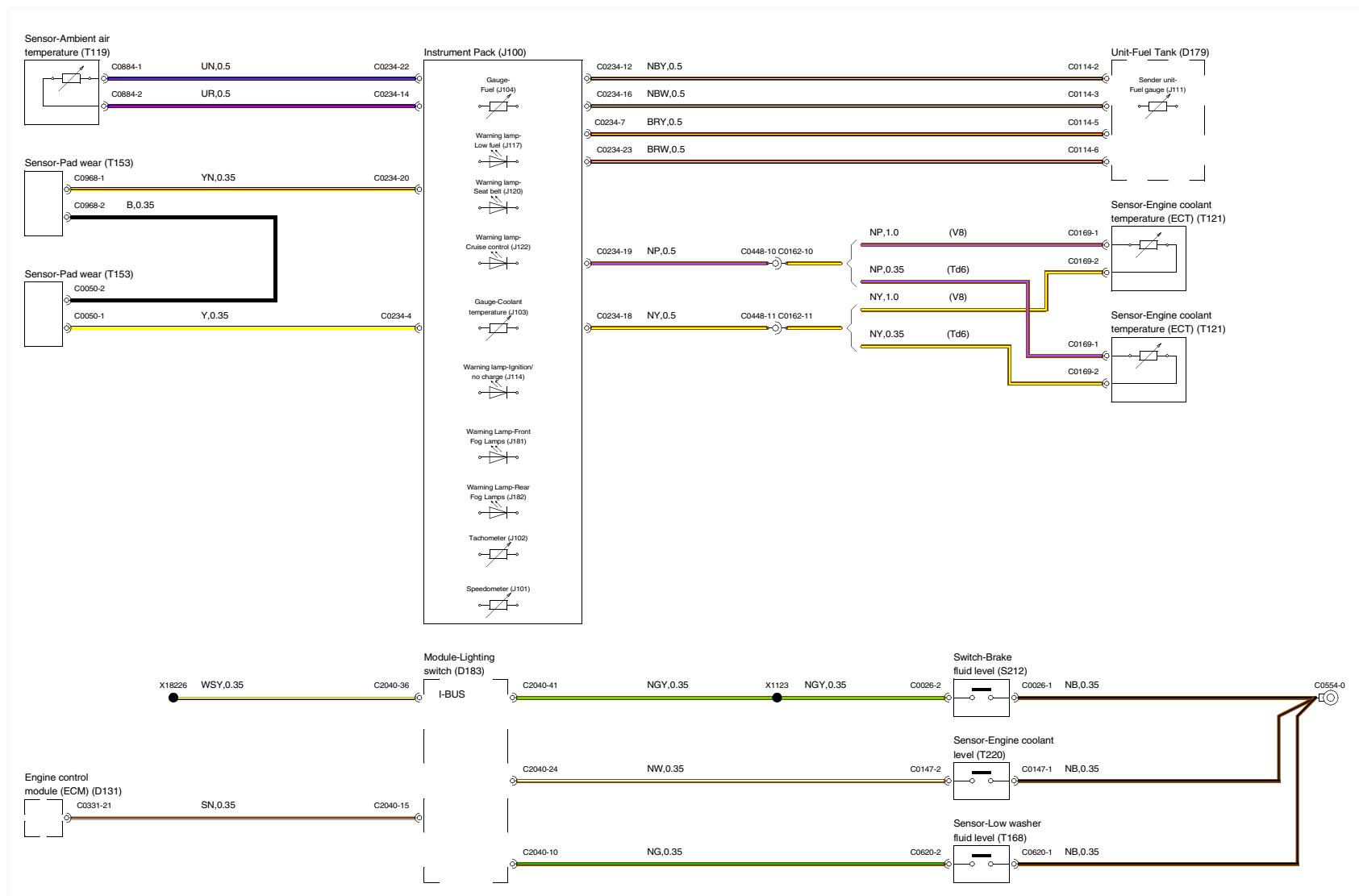


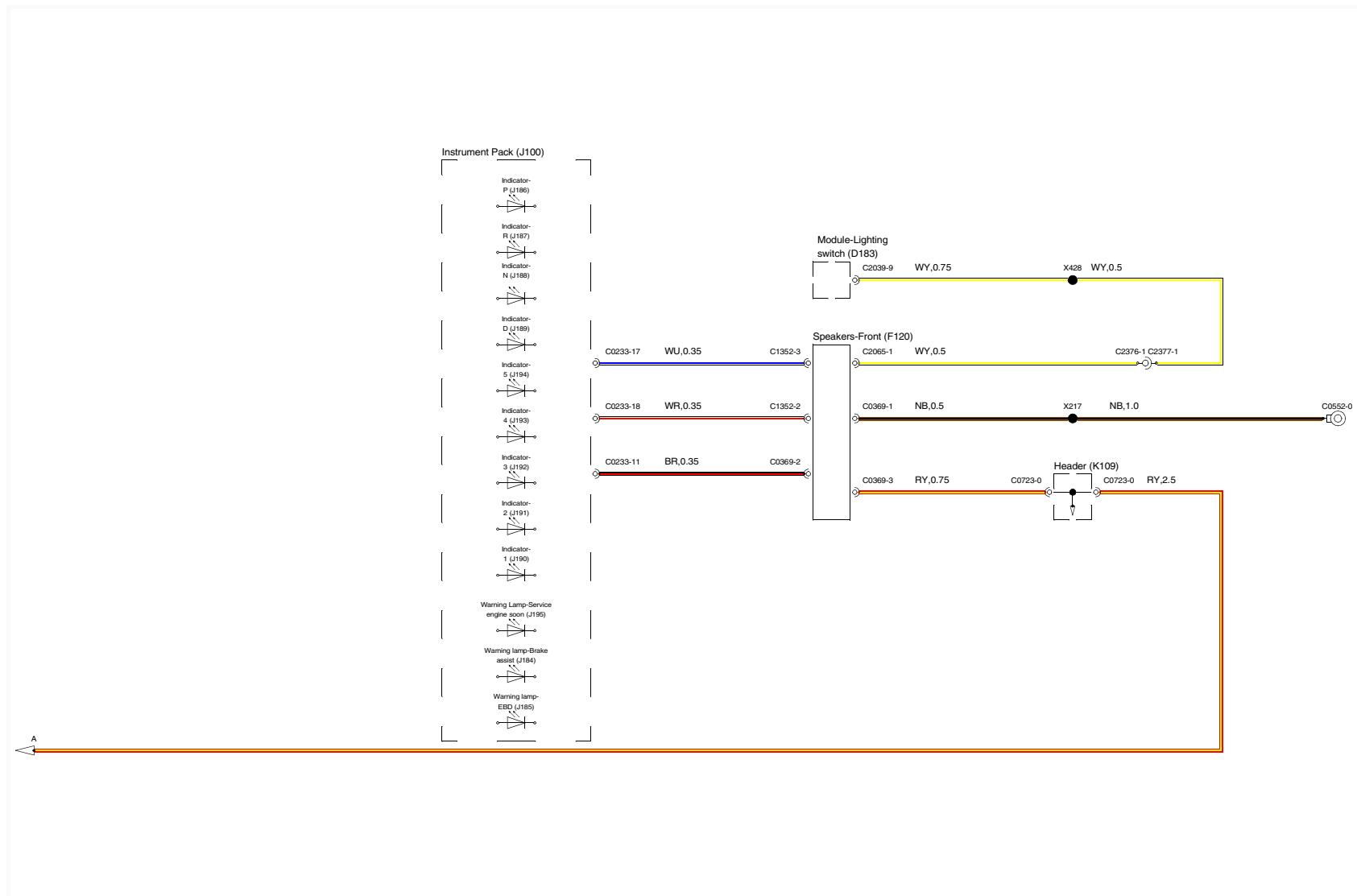


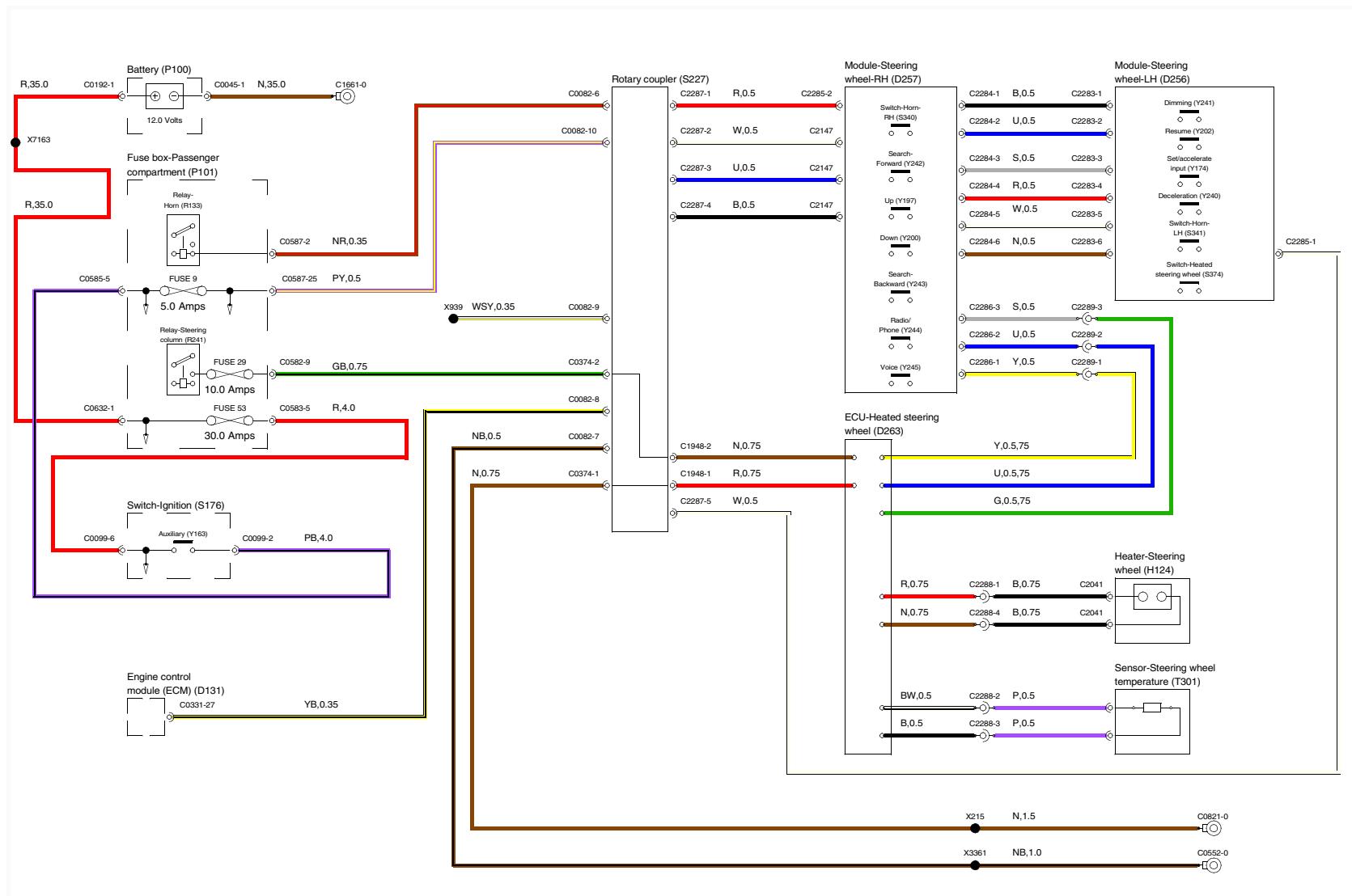


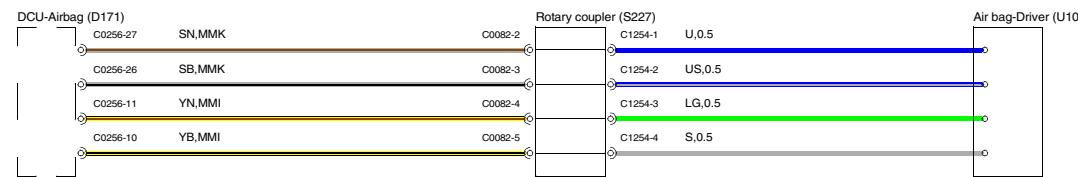


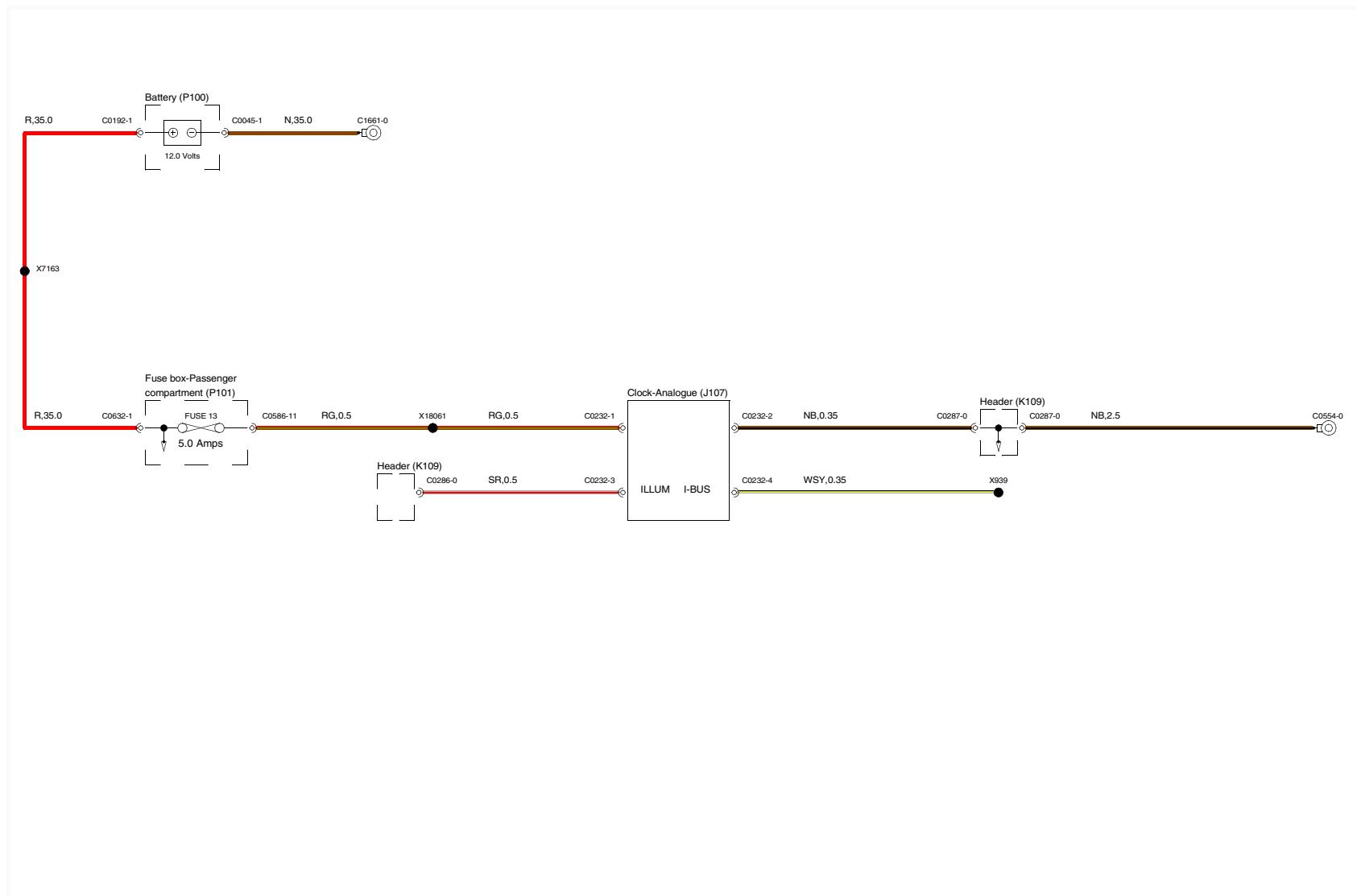


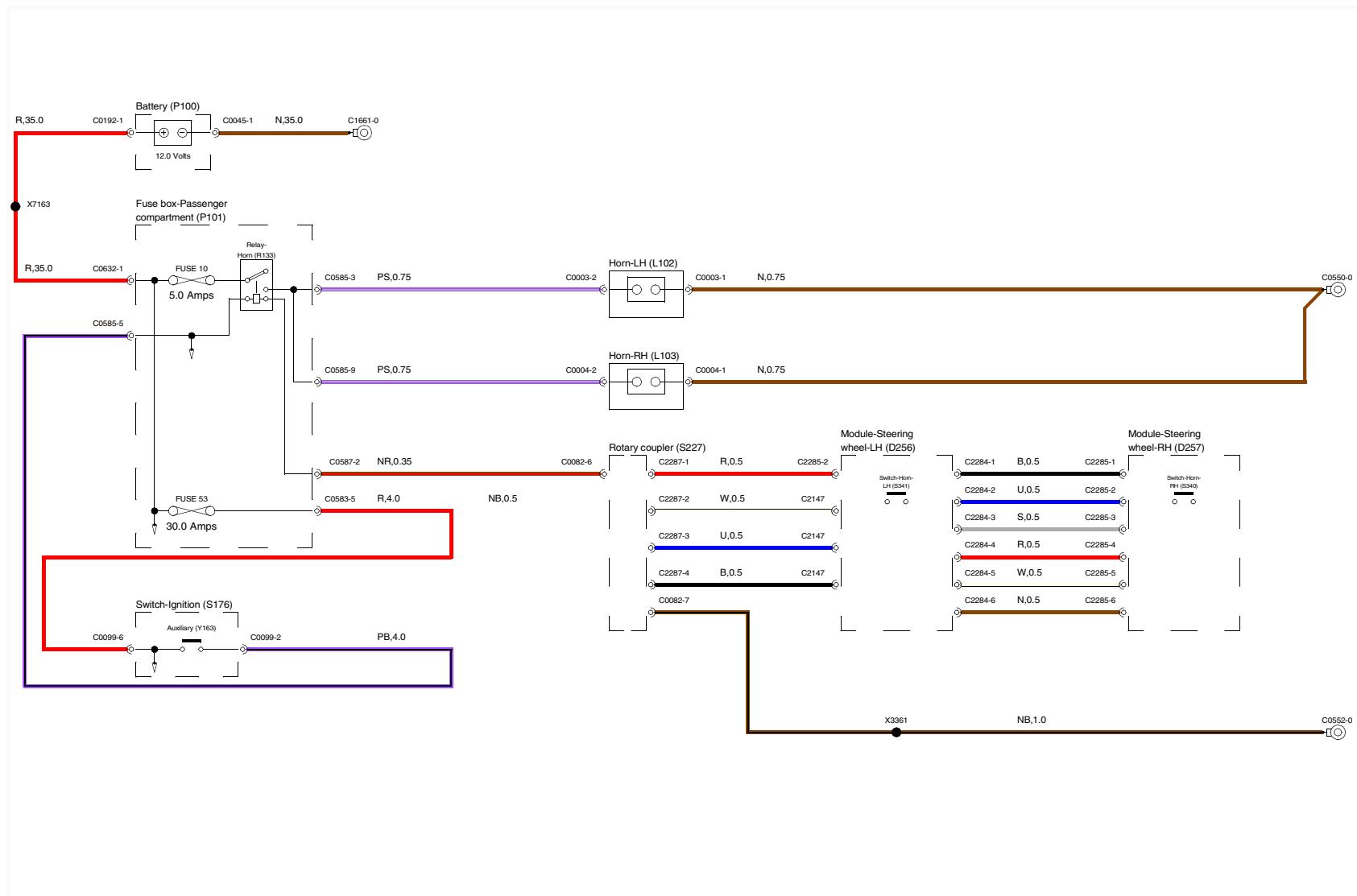




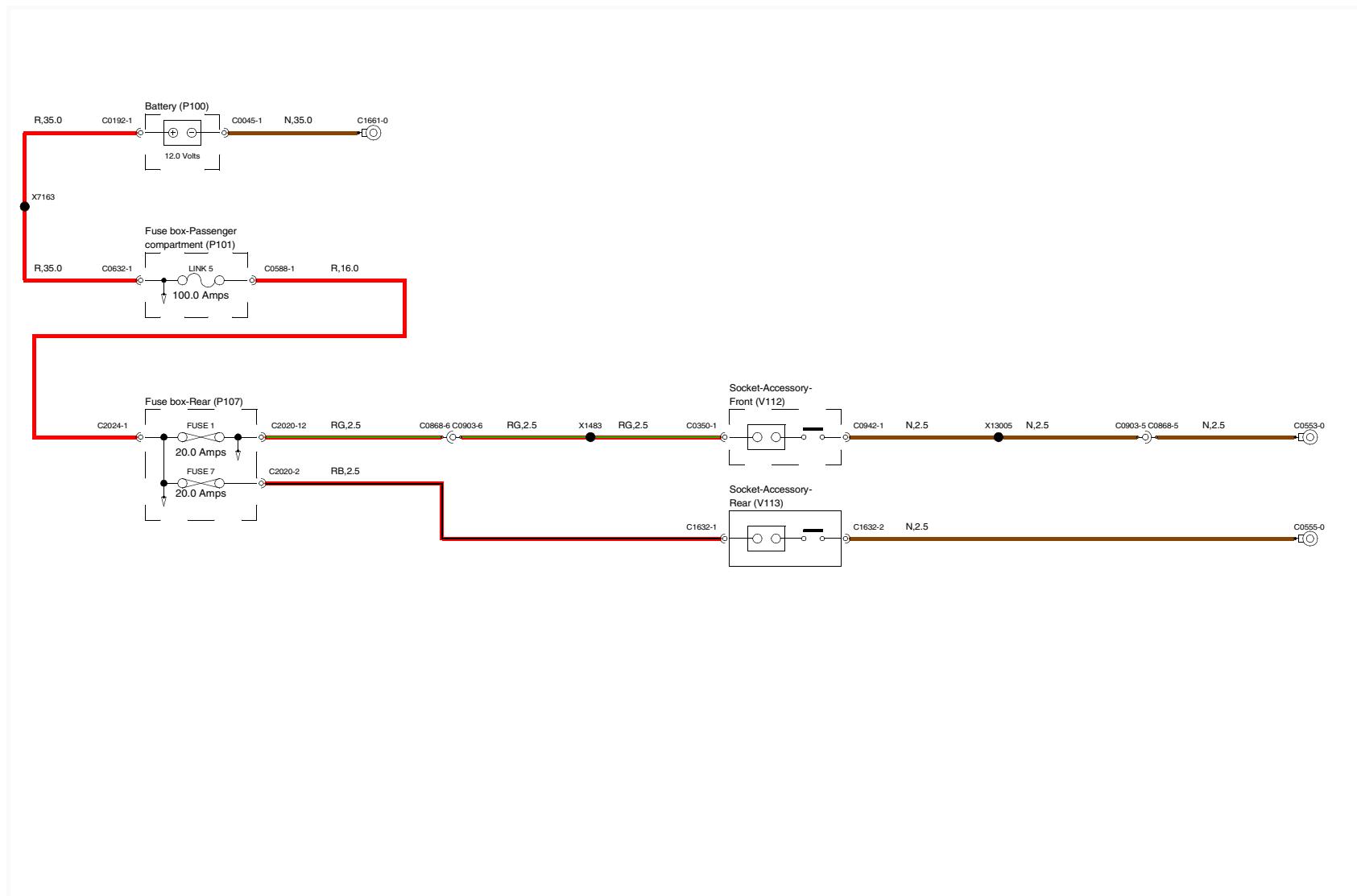


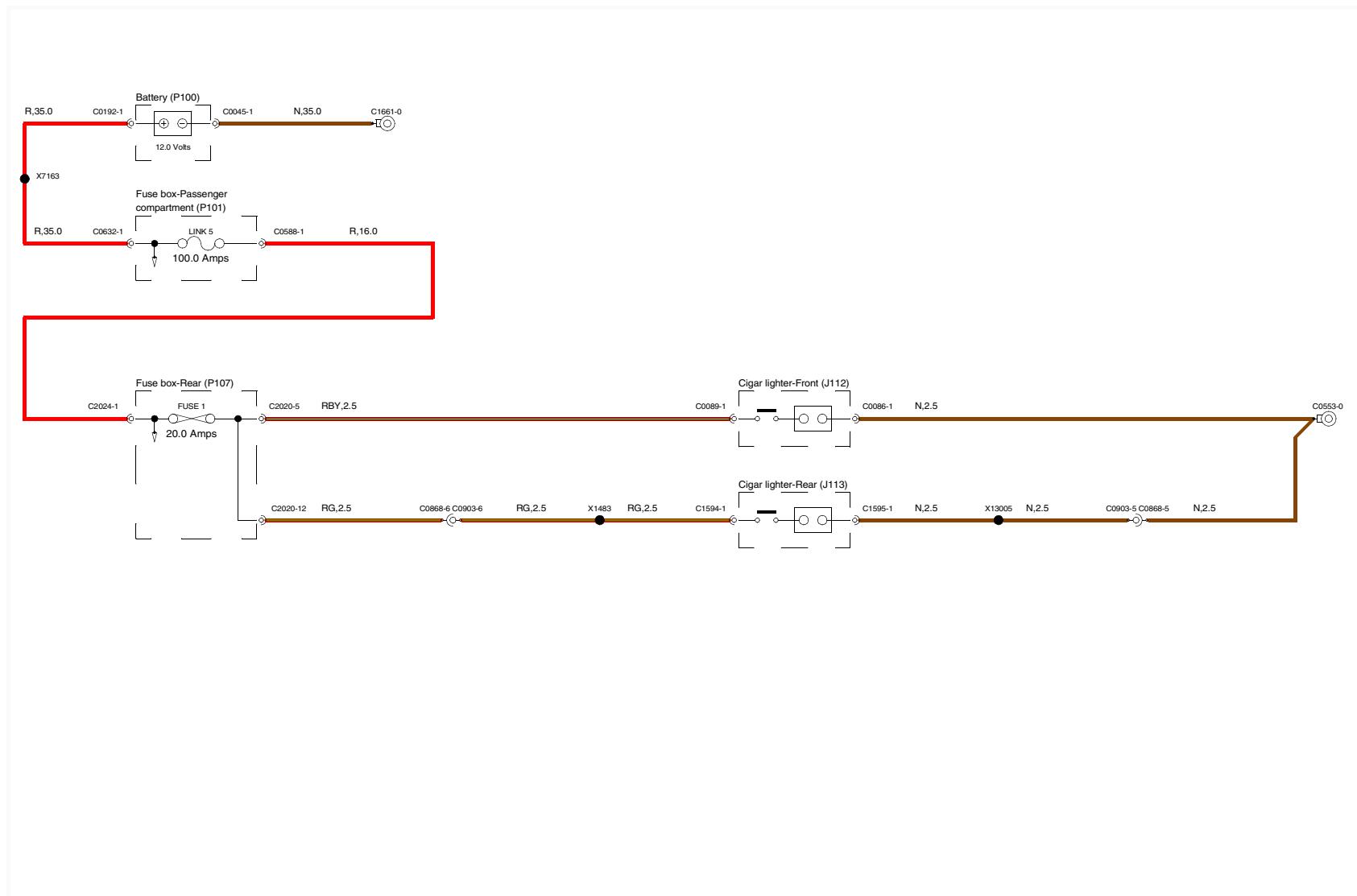


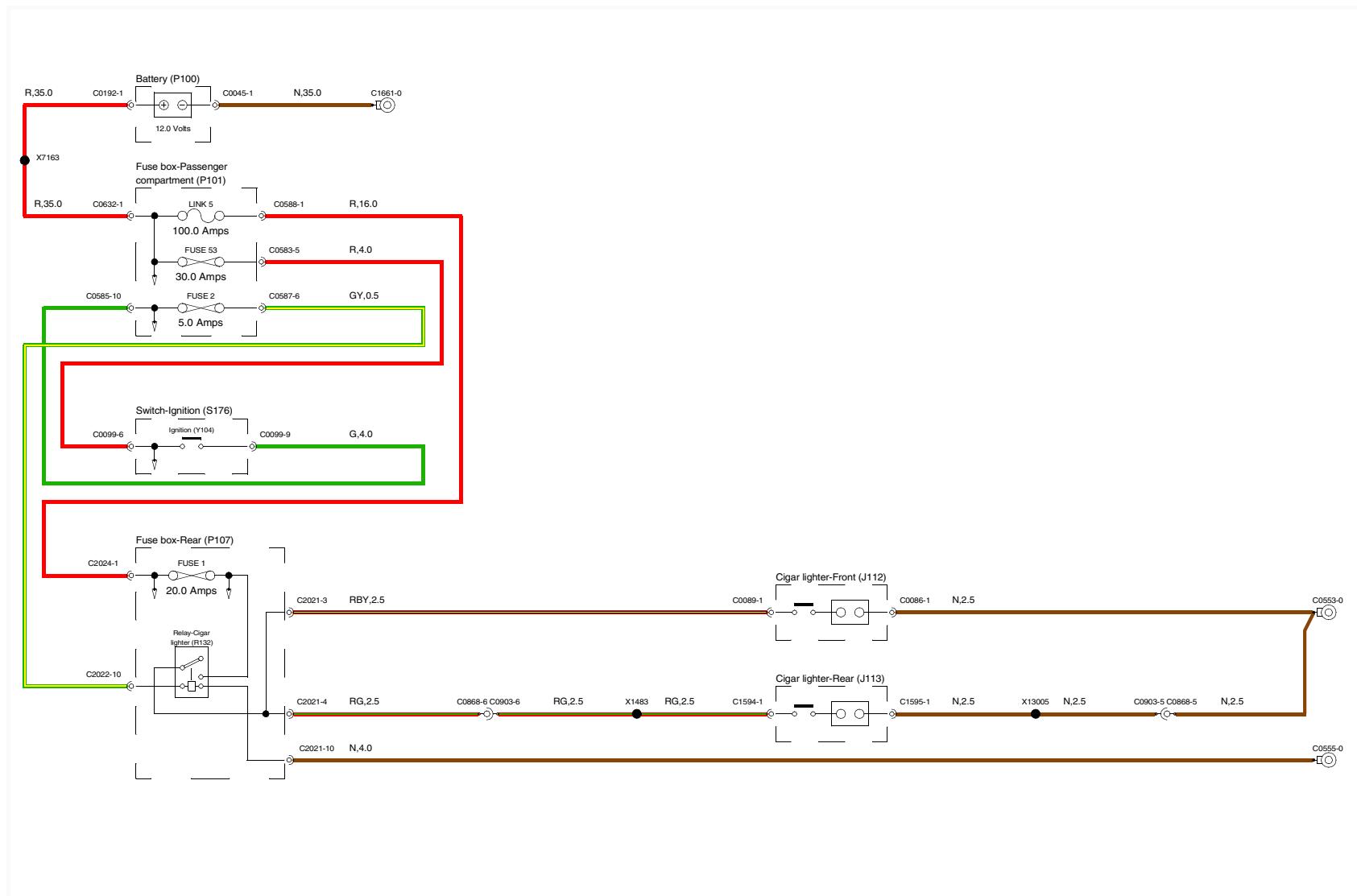


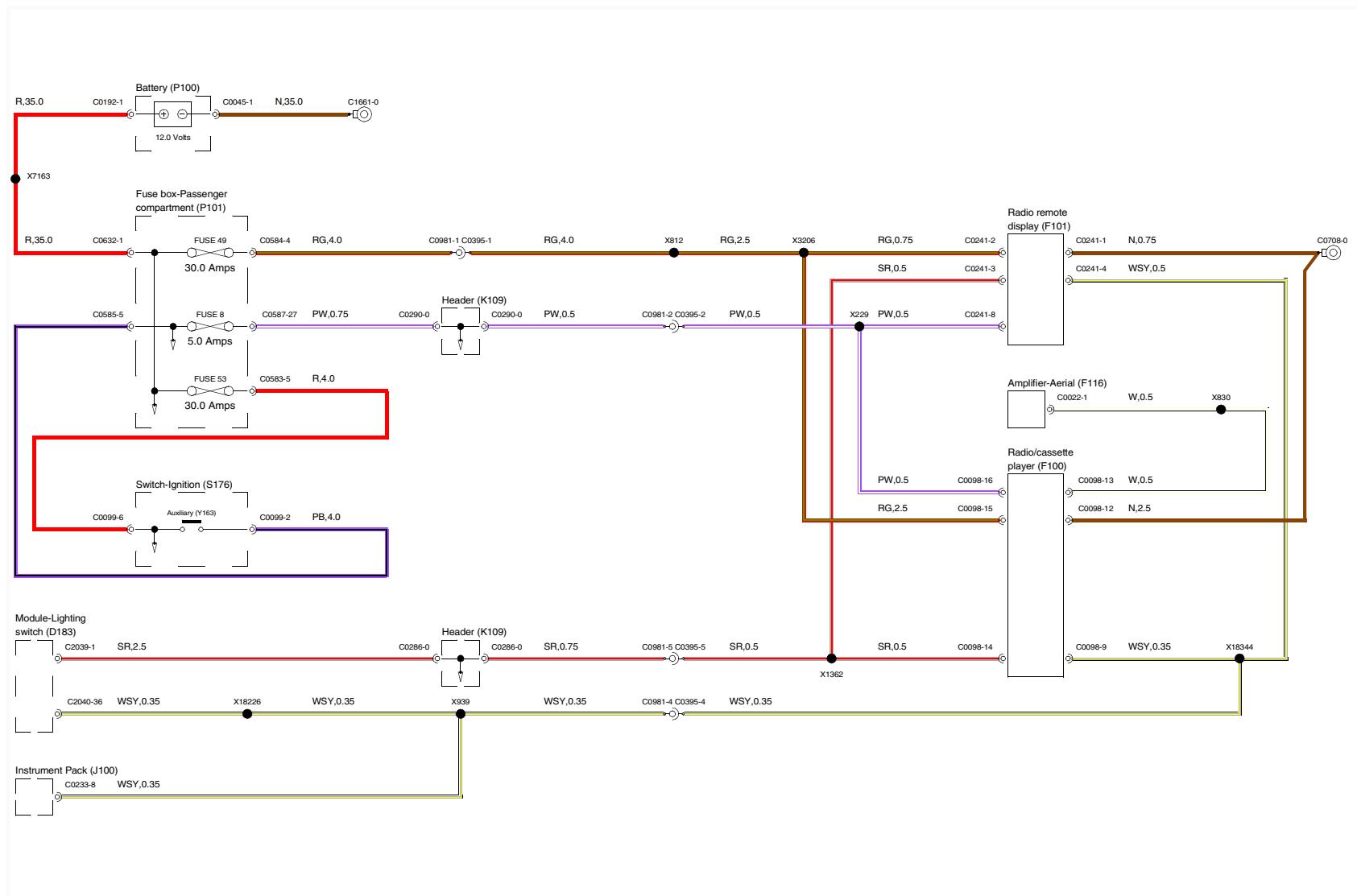


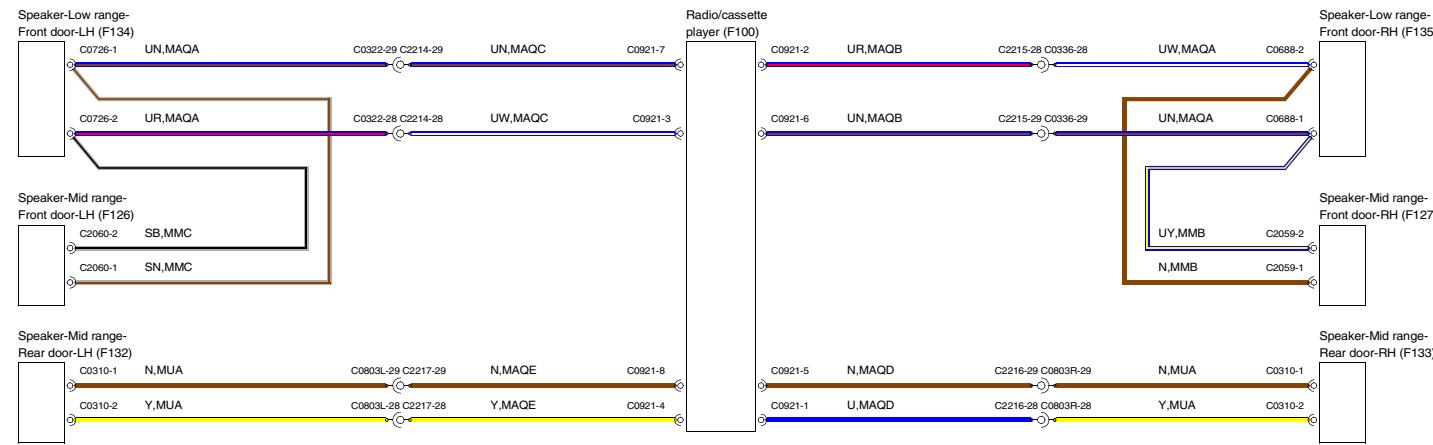
49 ACCESSORY SOCKET

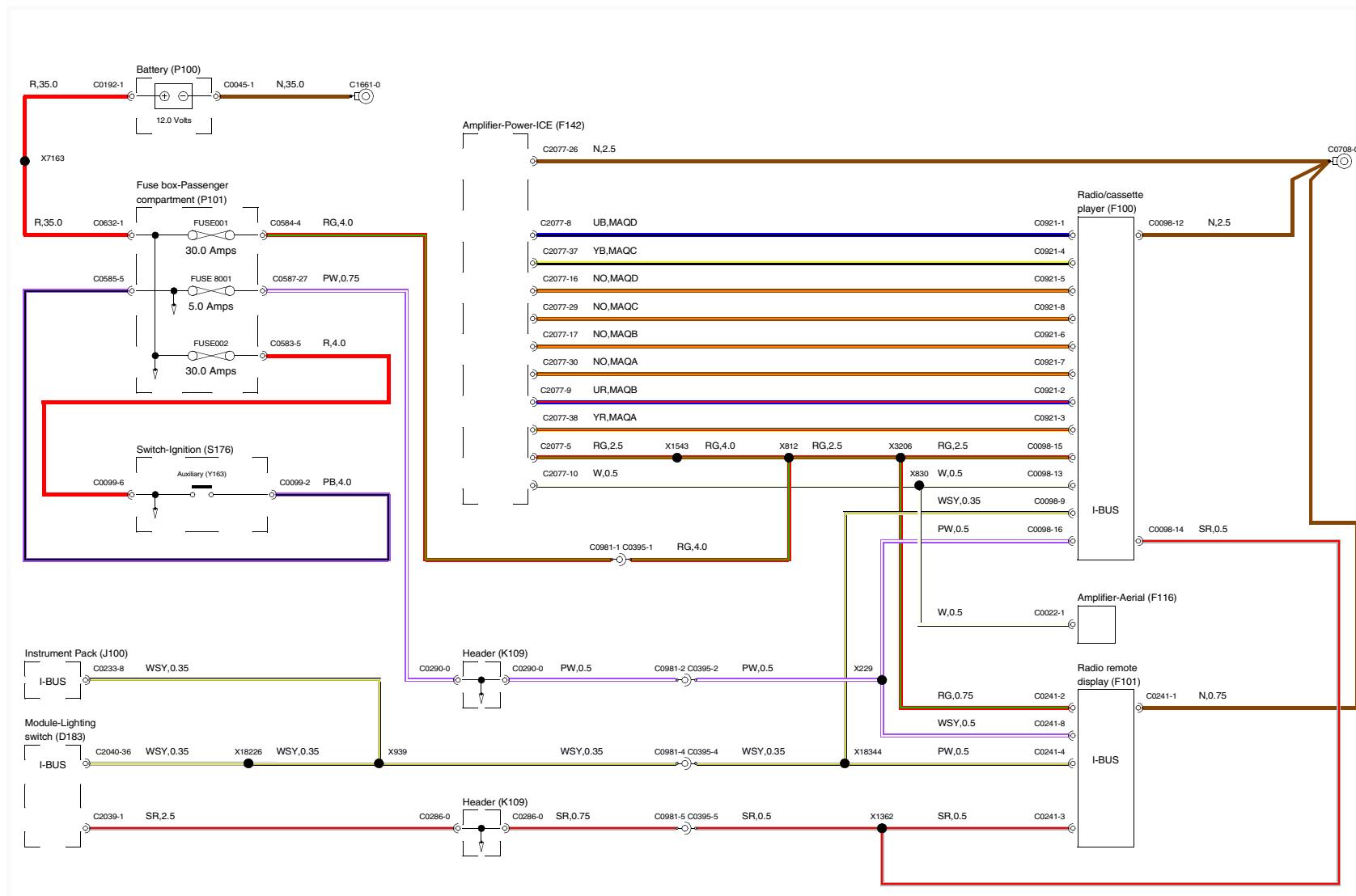




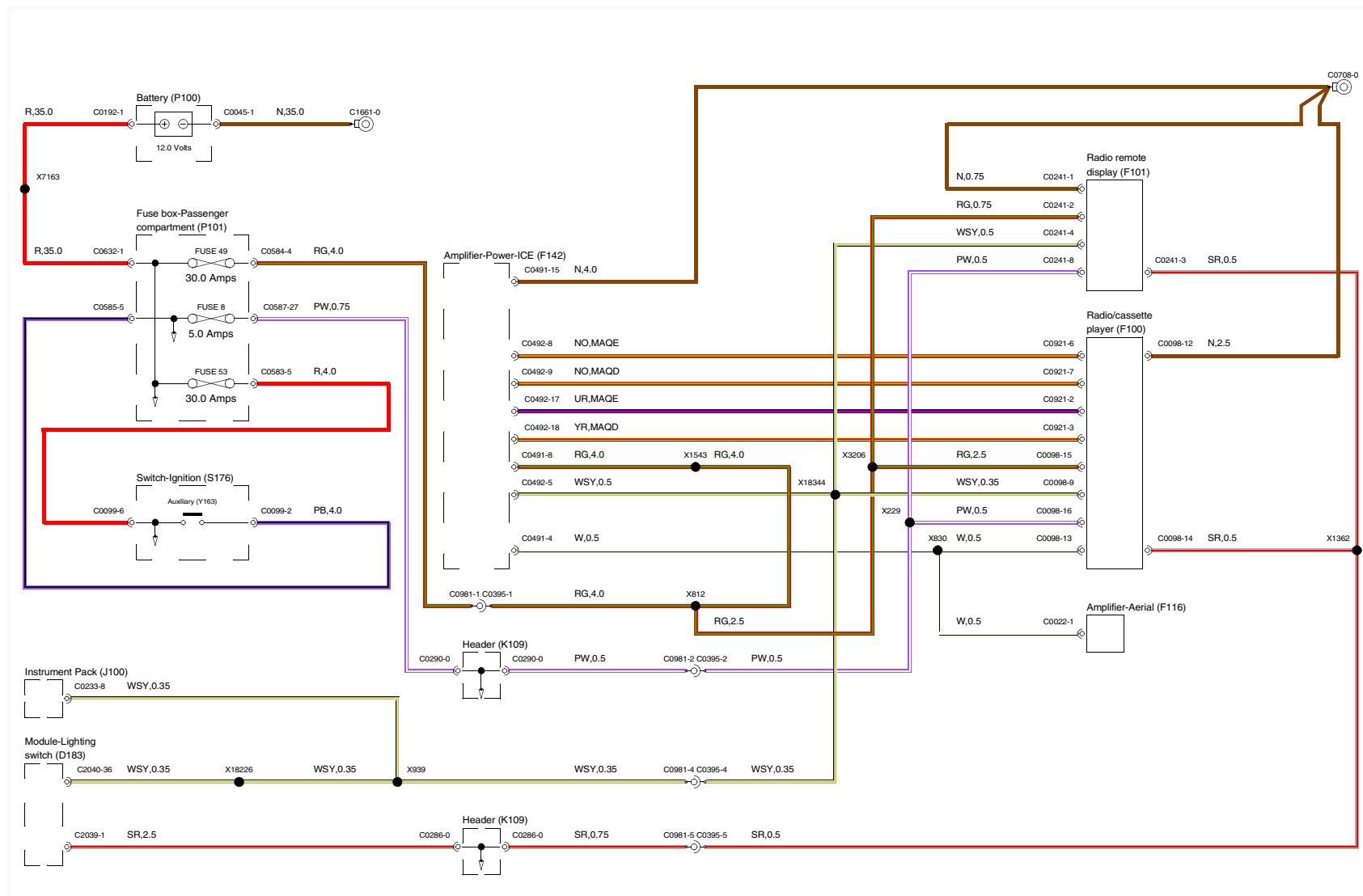


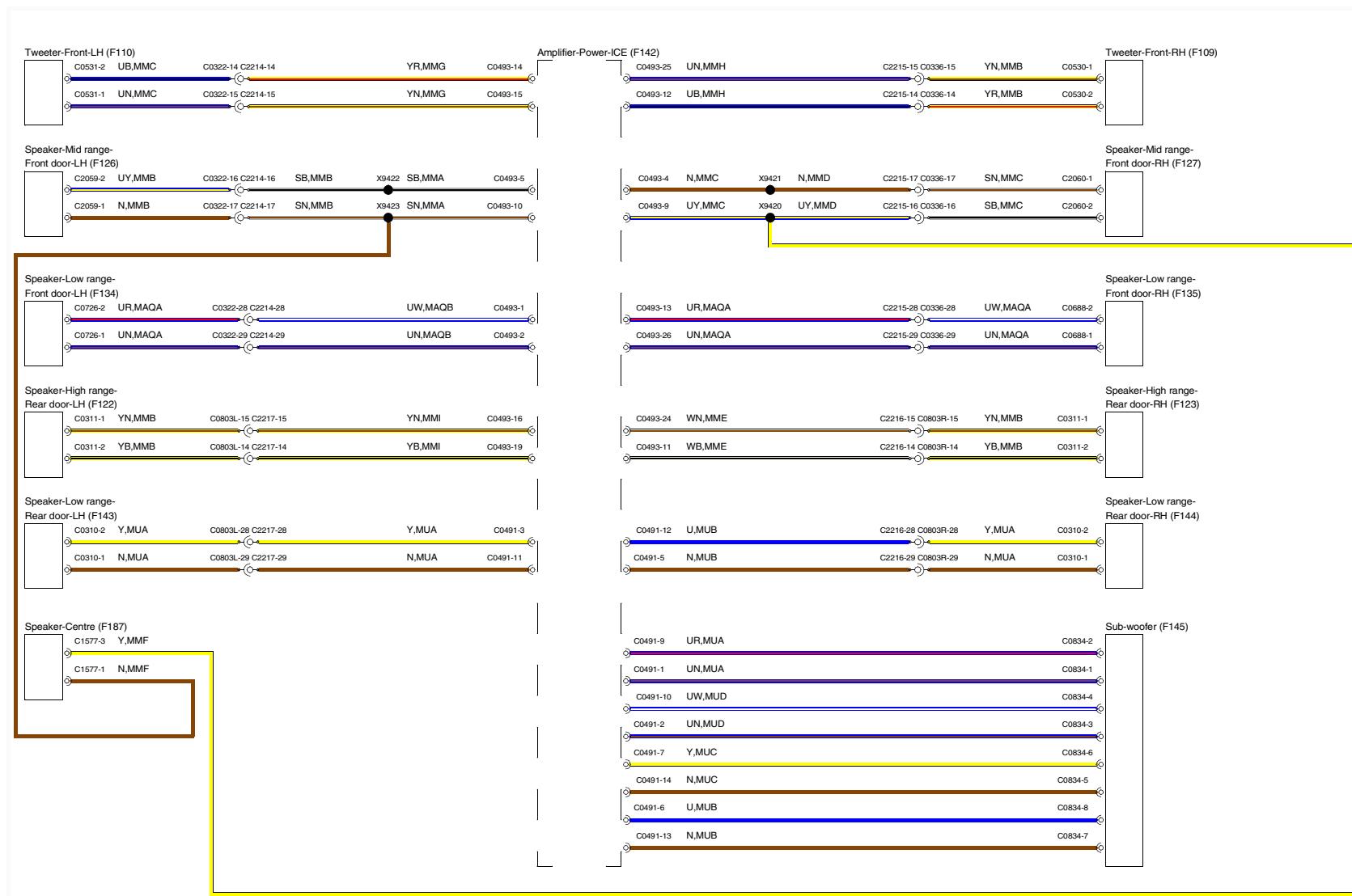


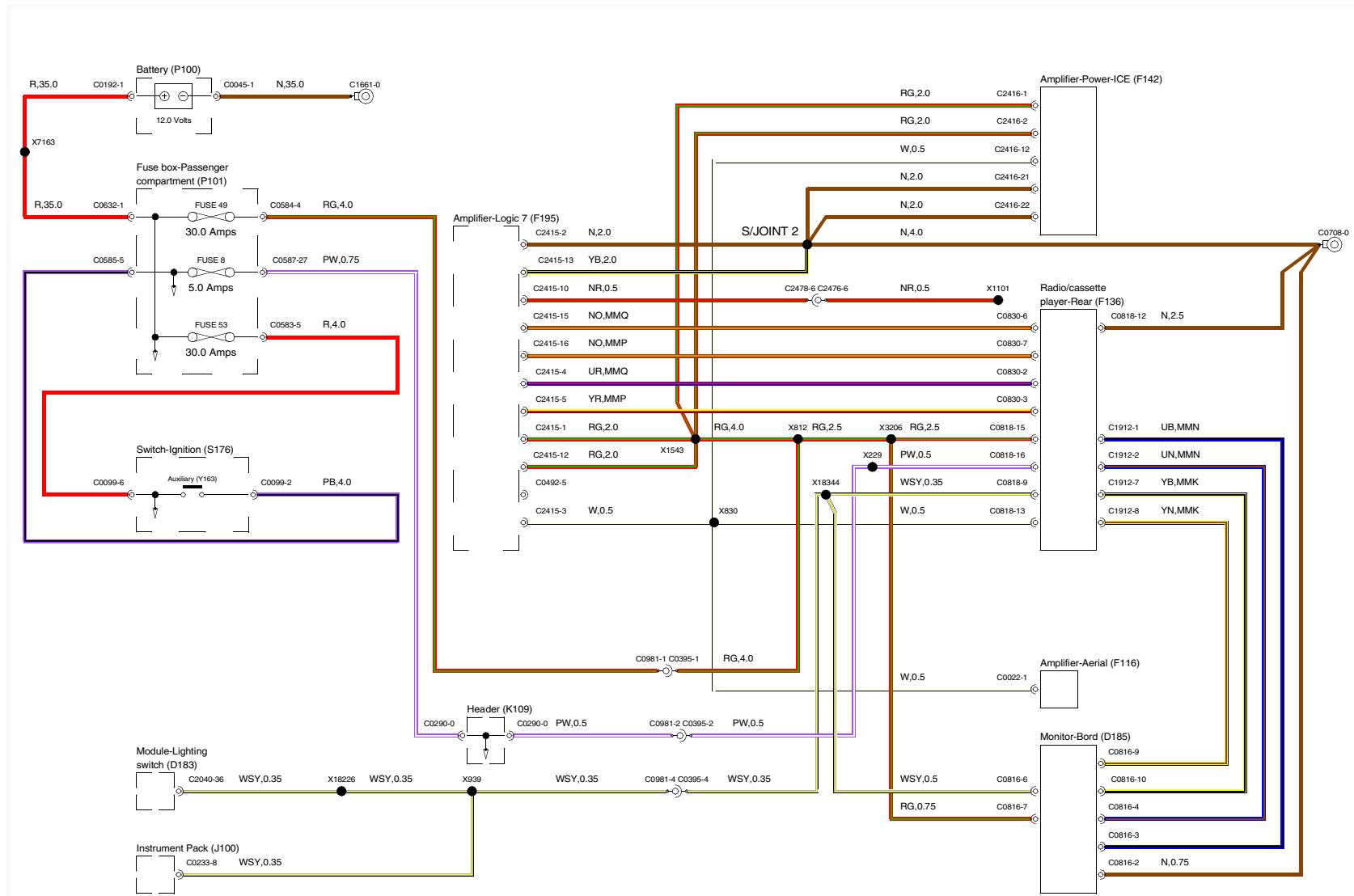


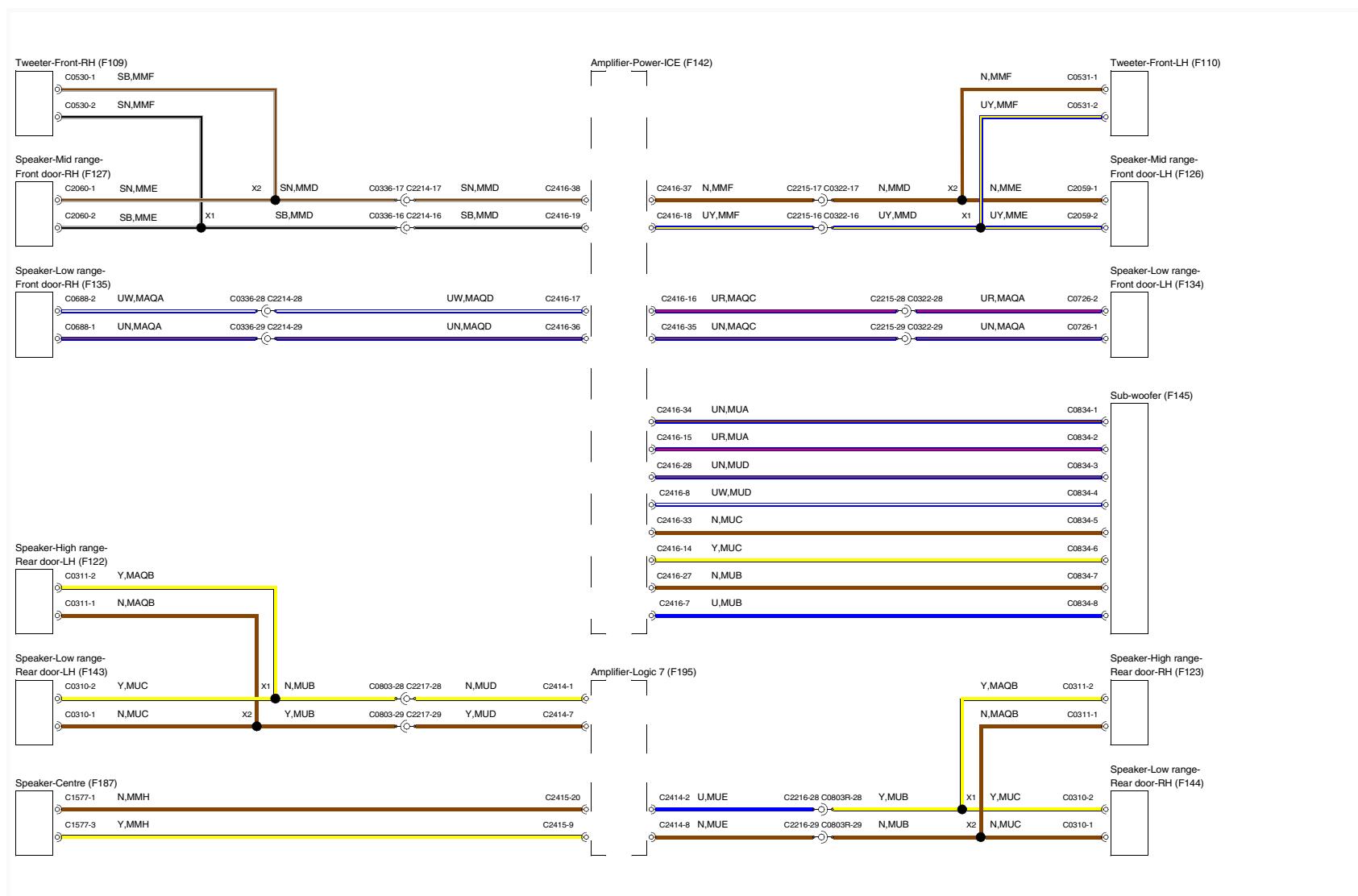


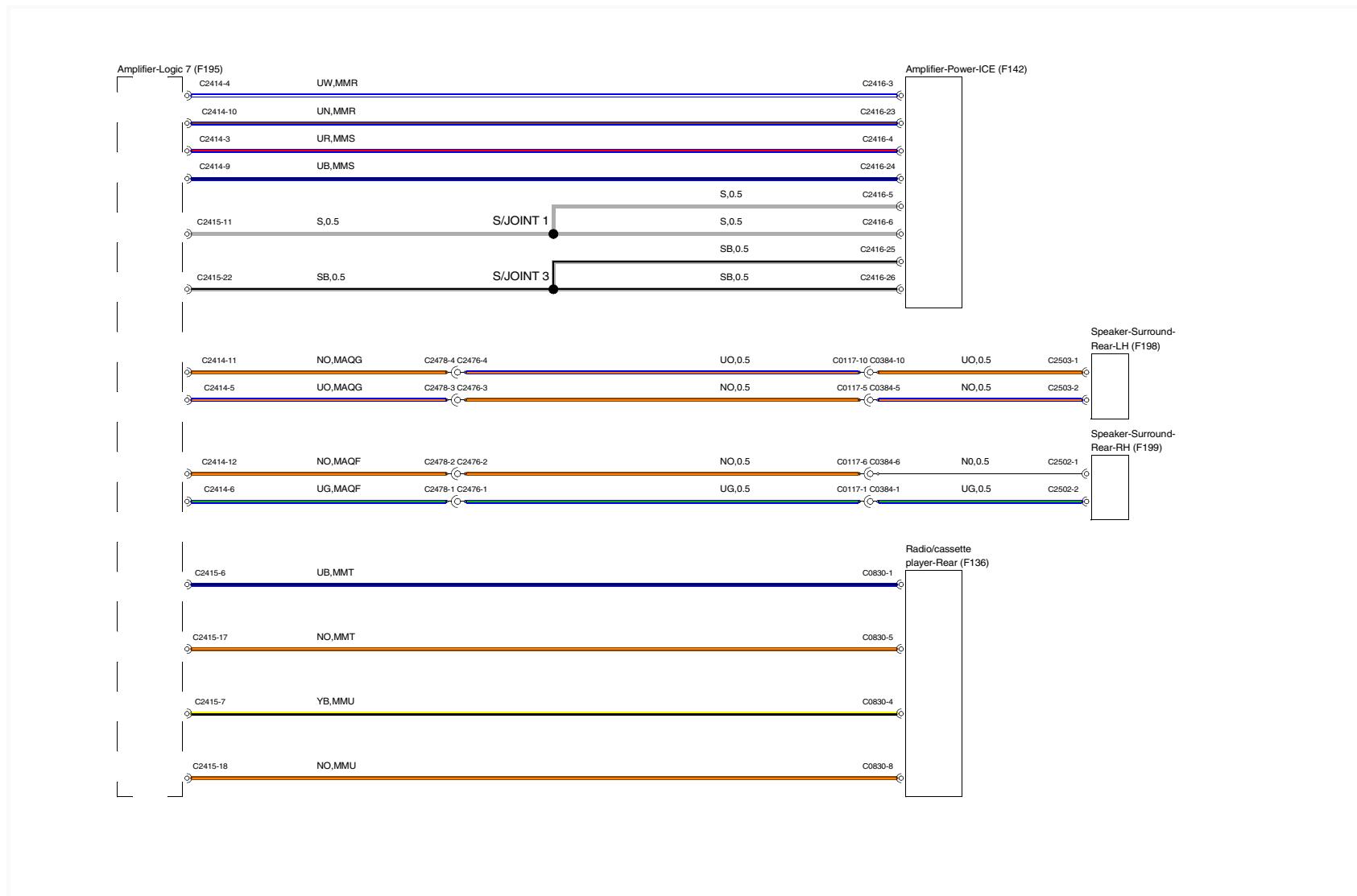


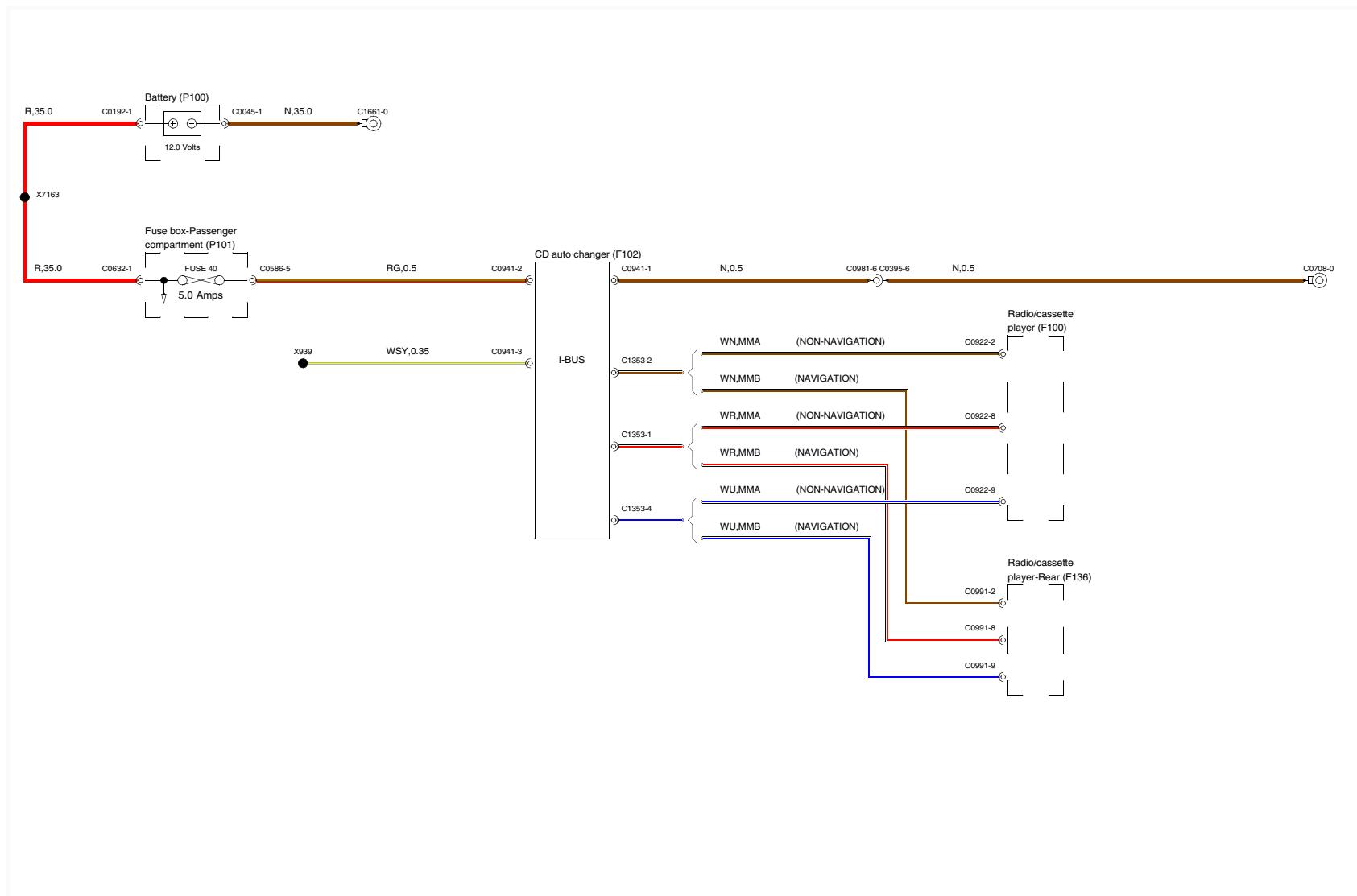


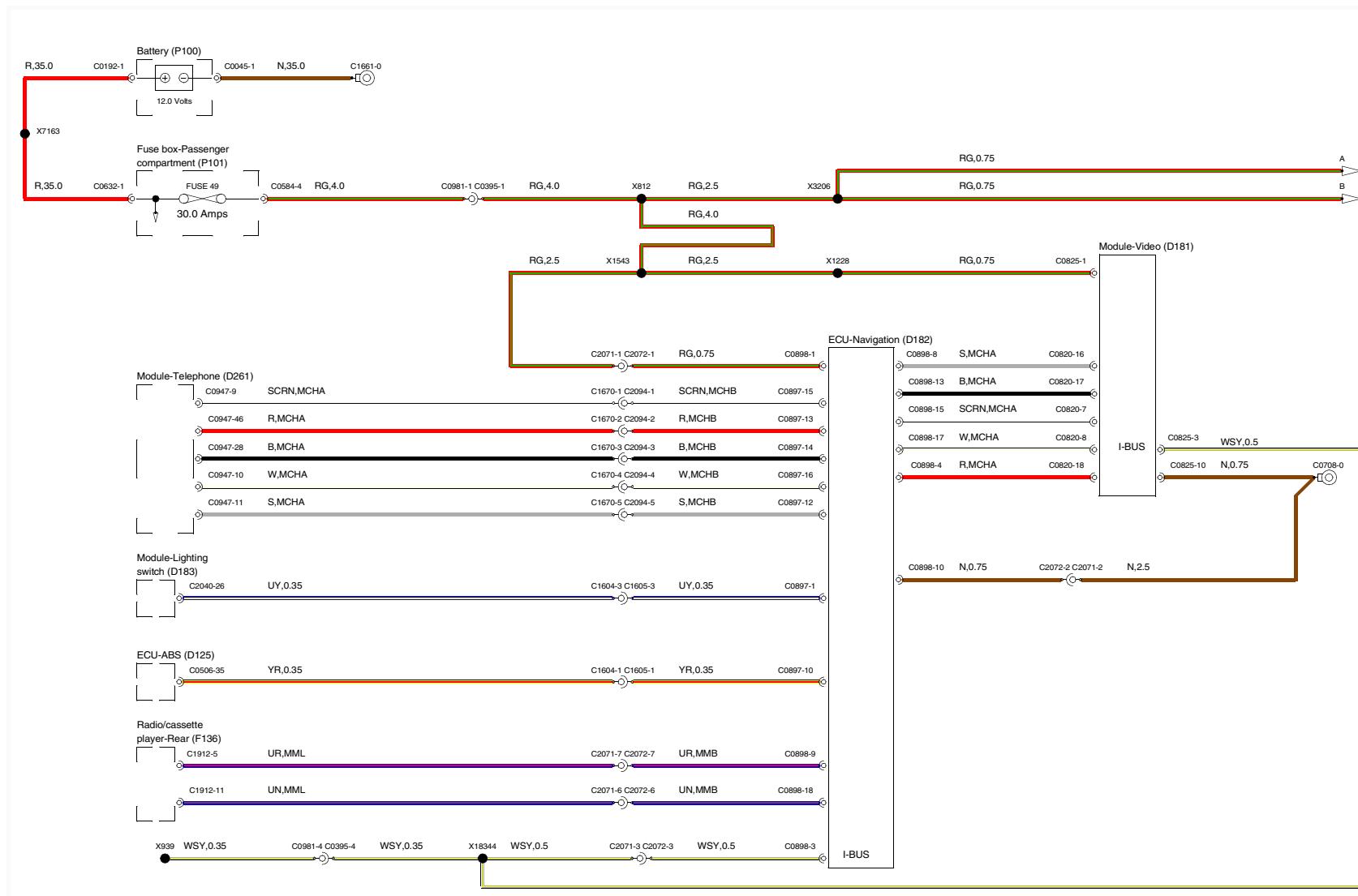


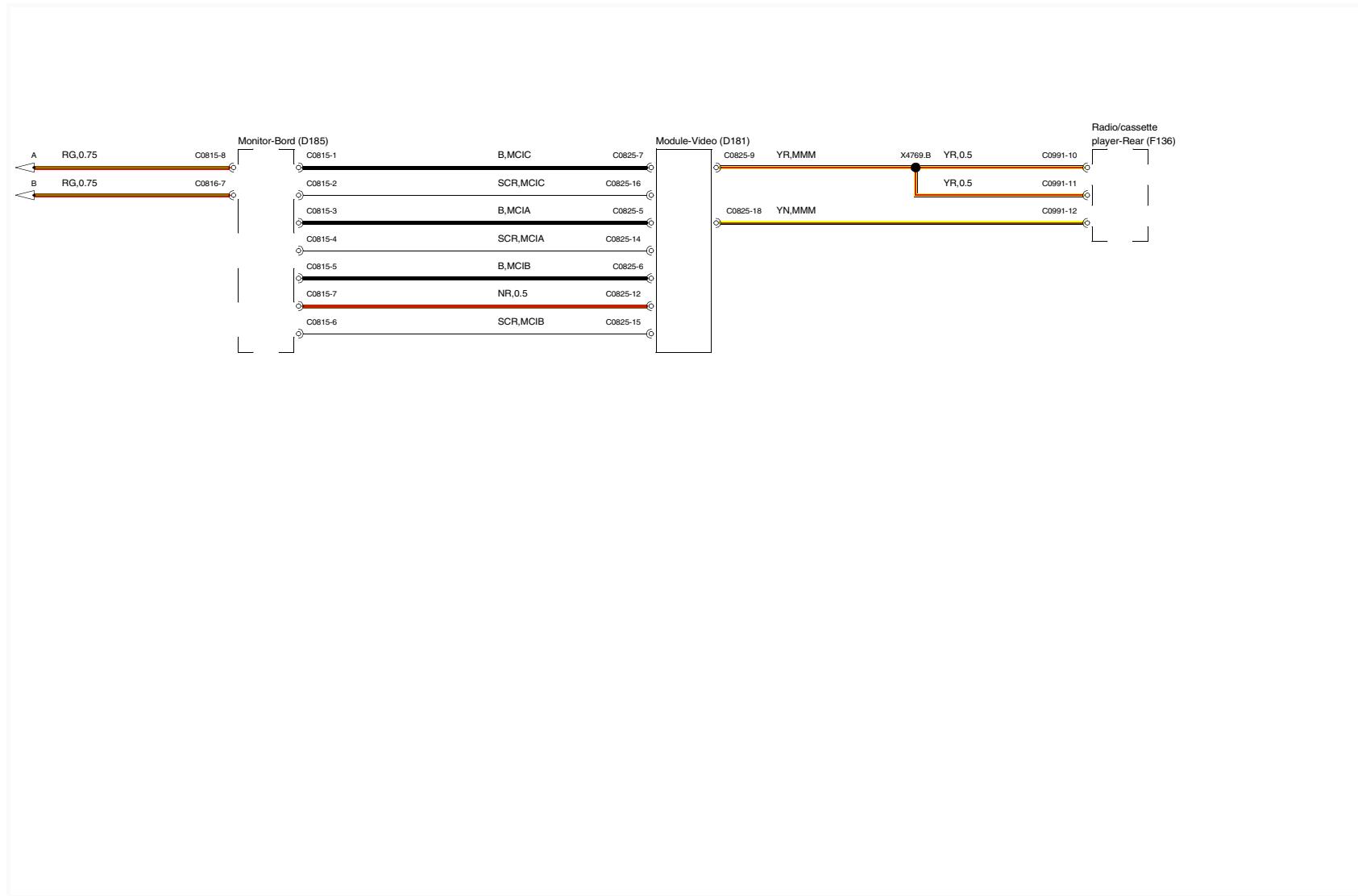


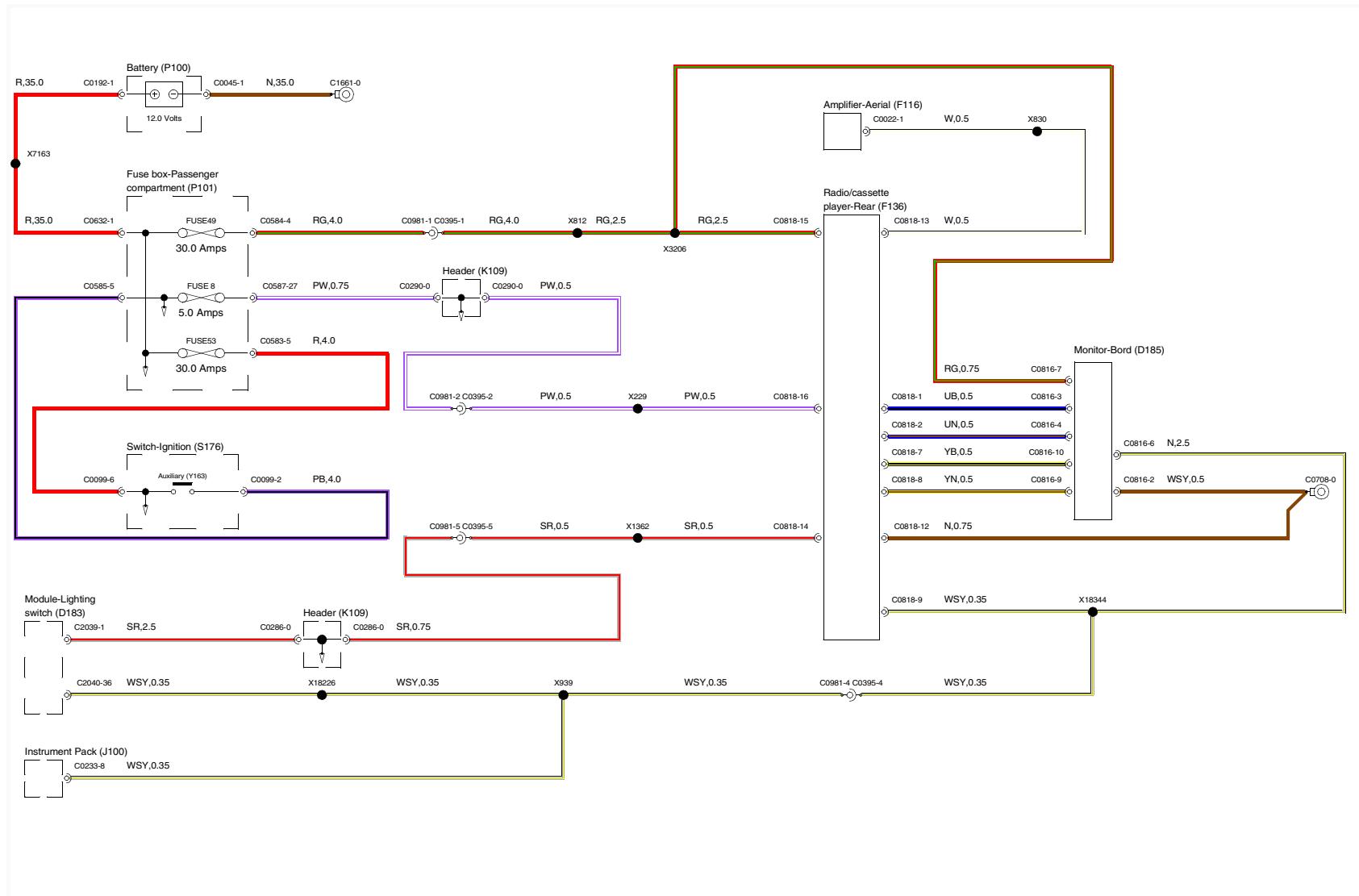


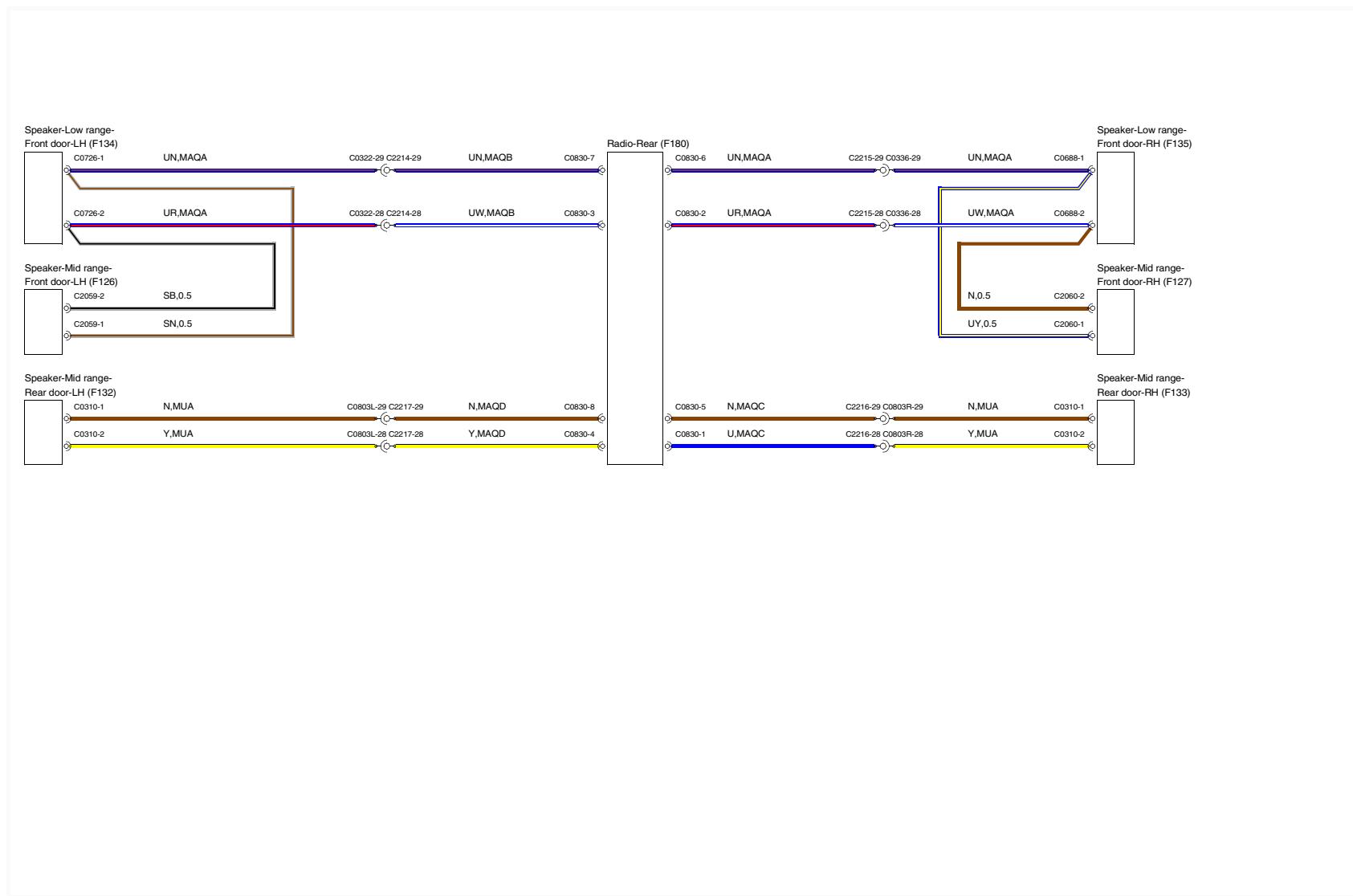


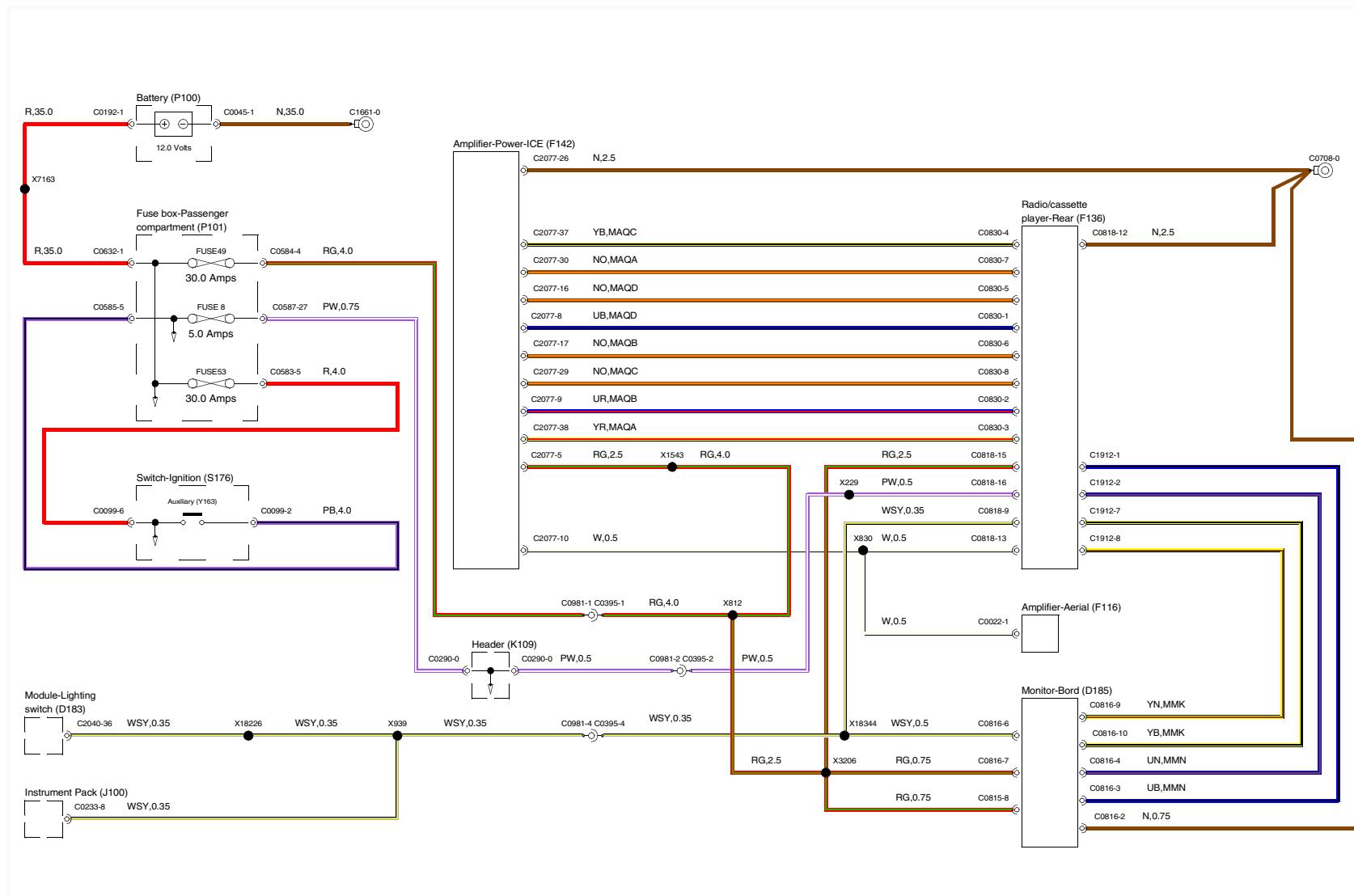


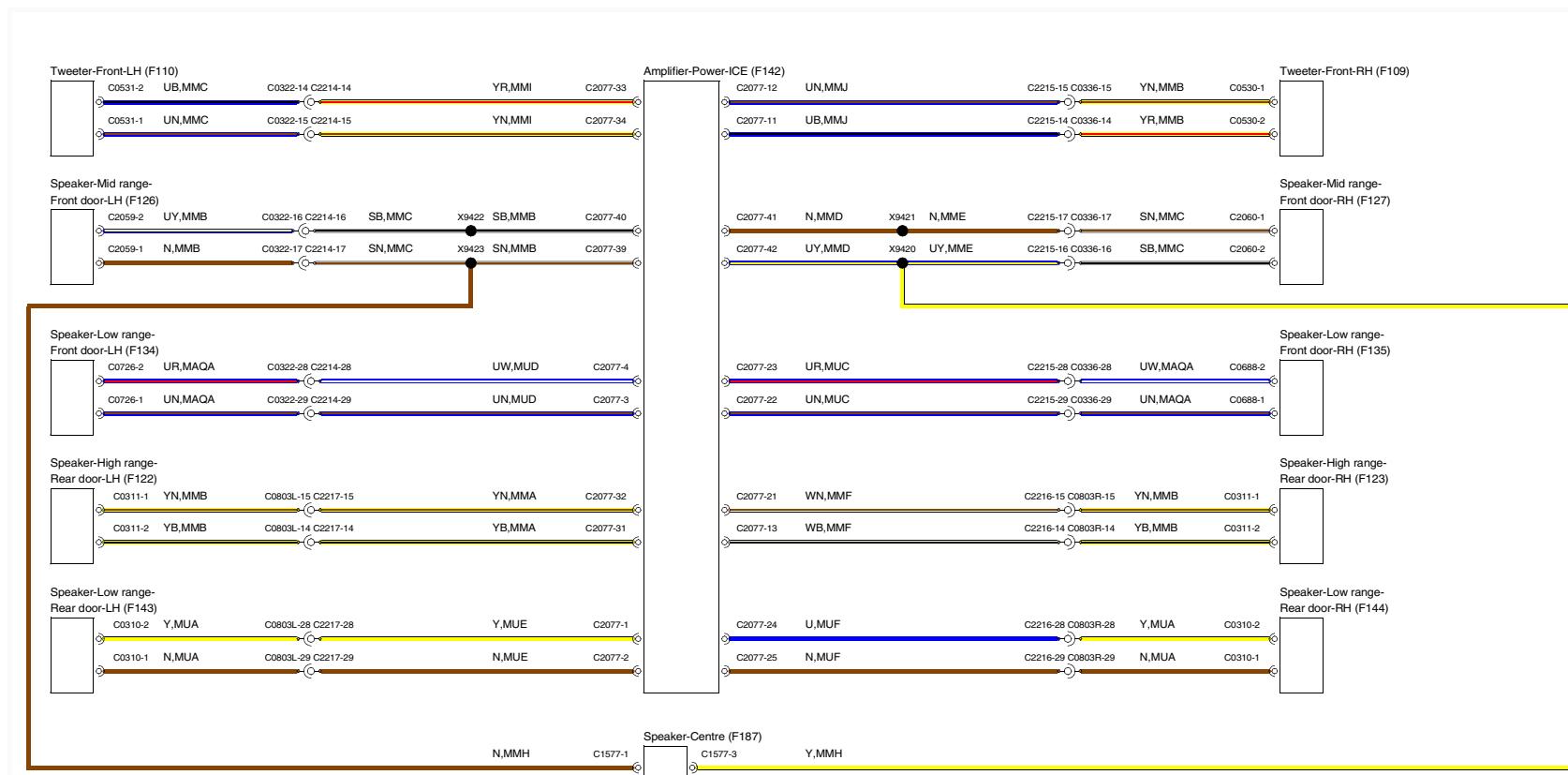


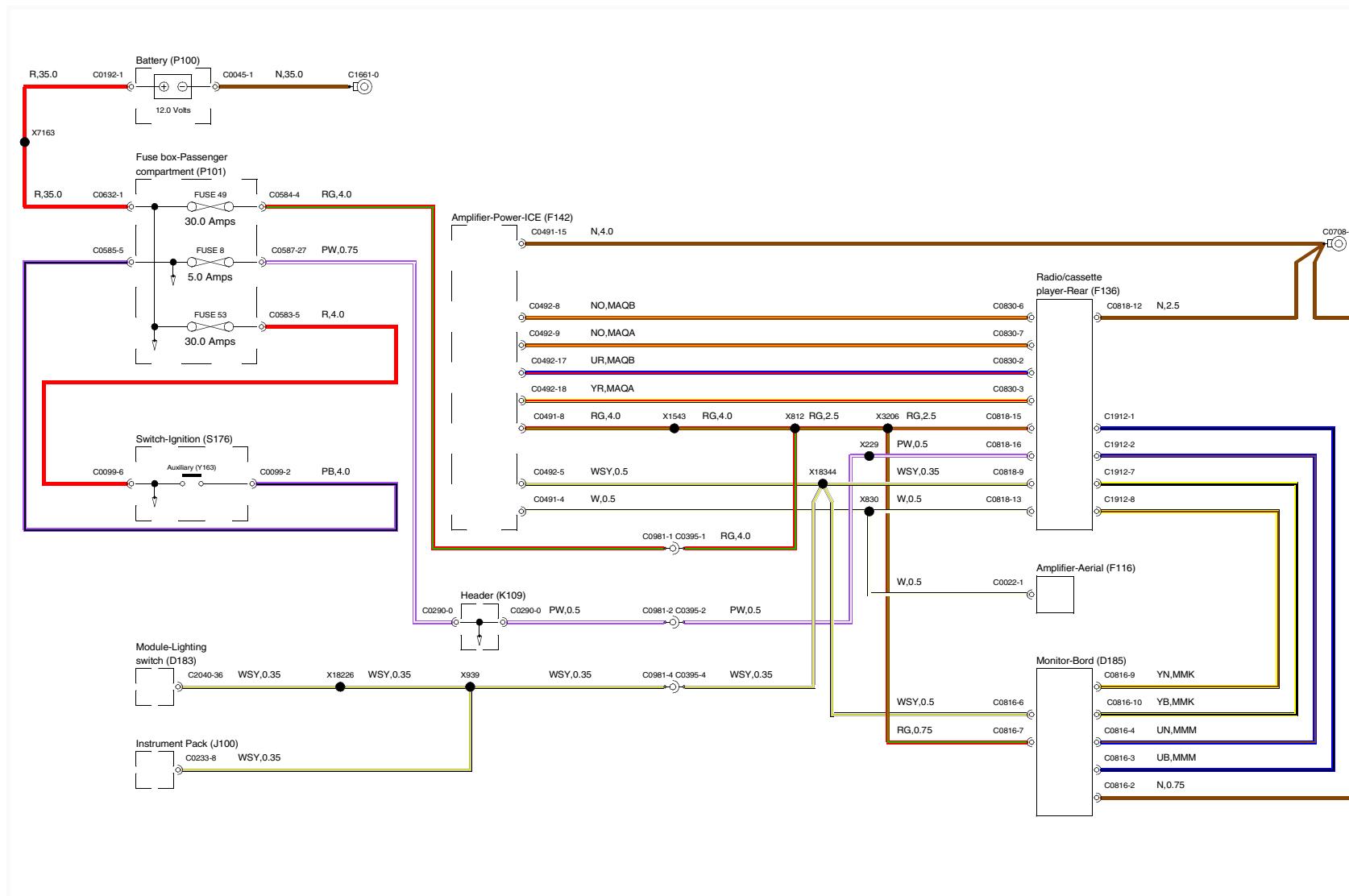


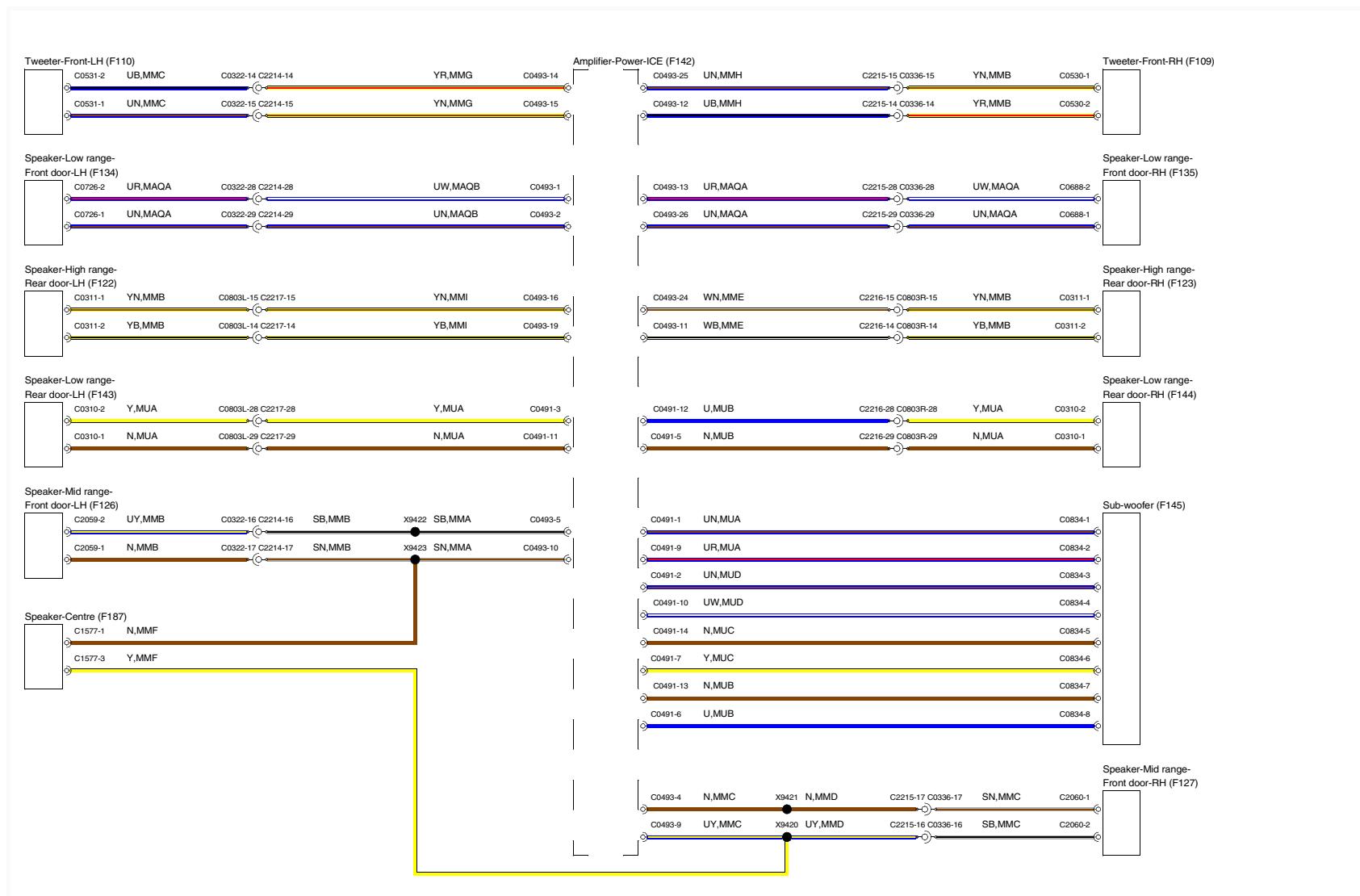


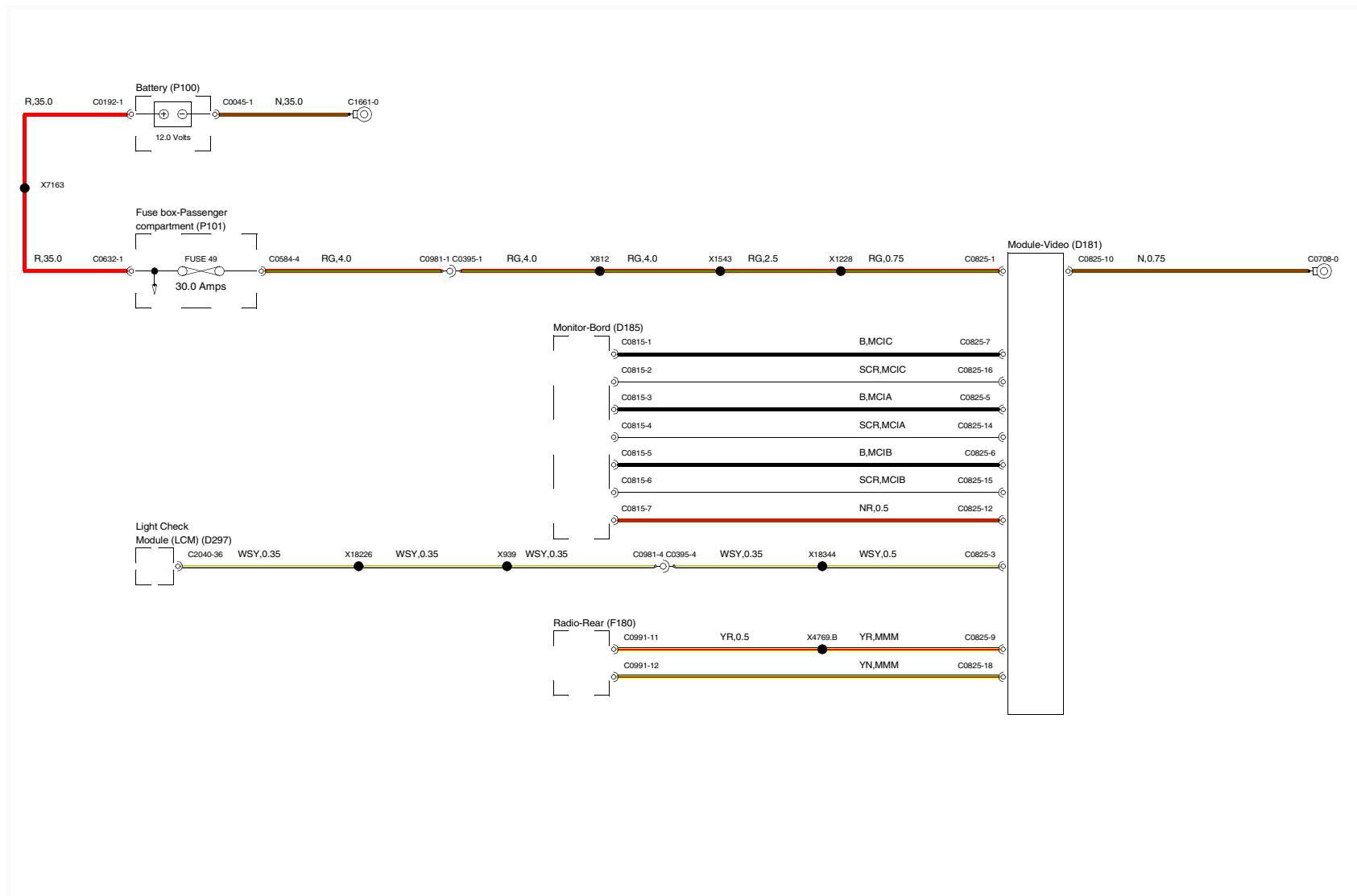


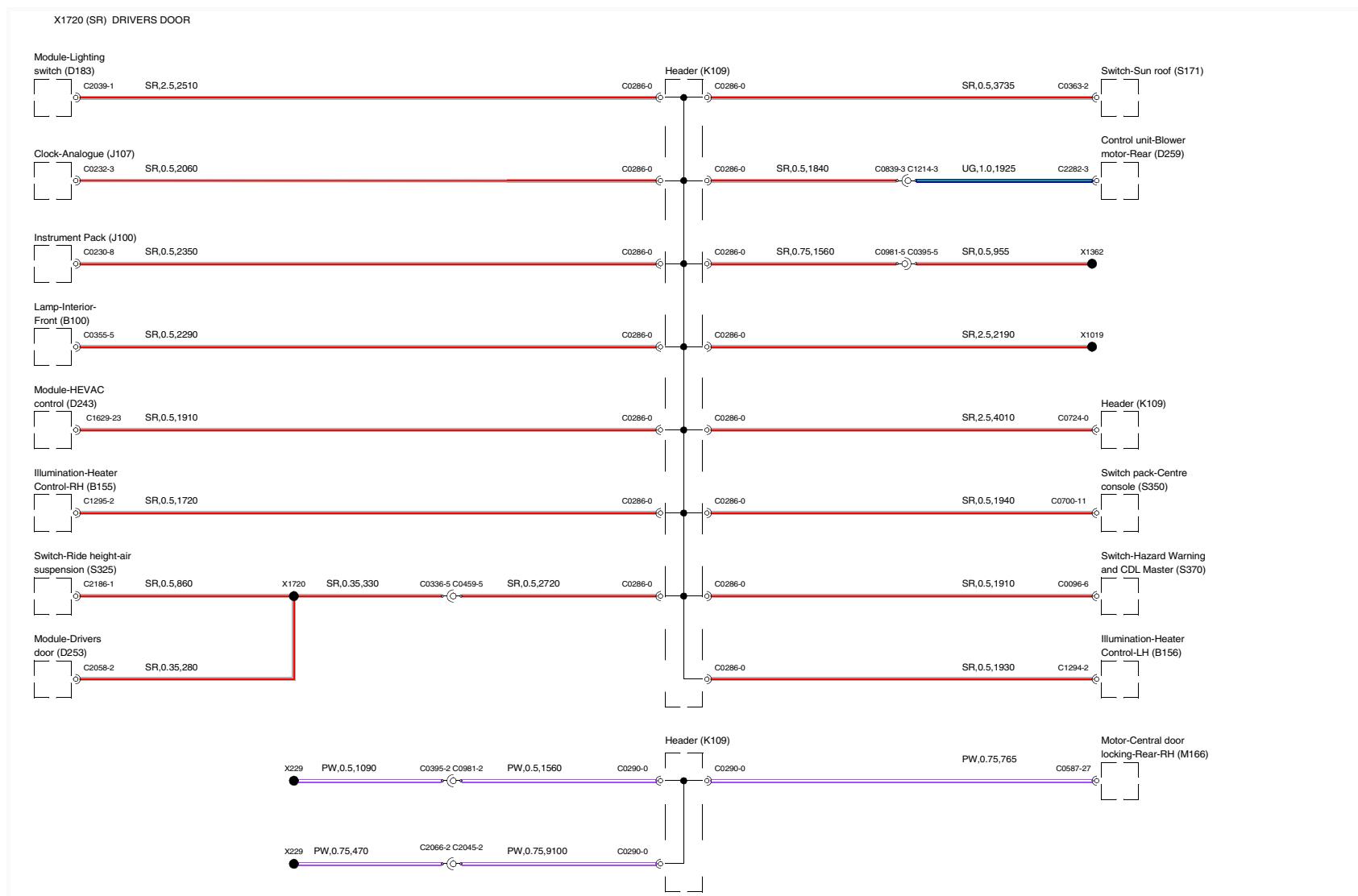


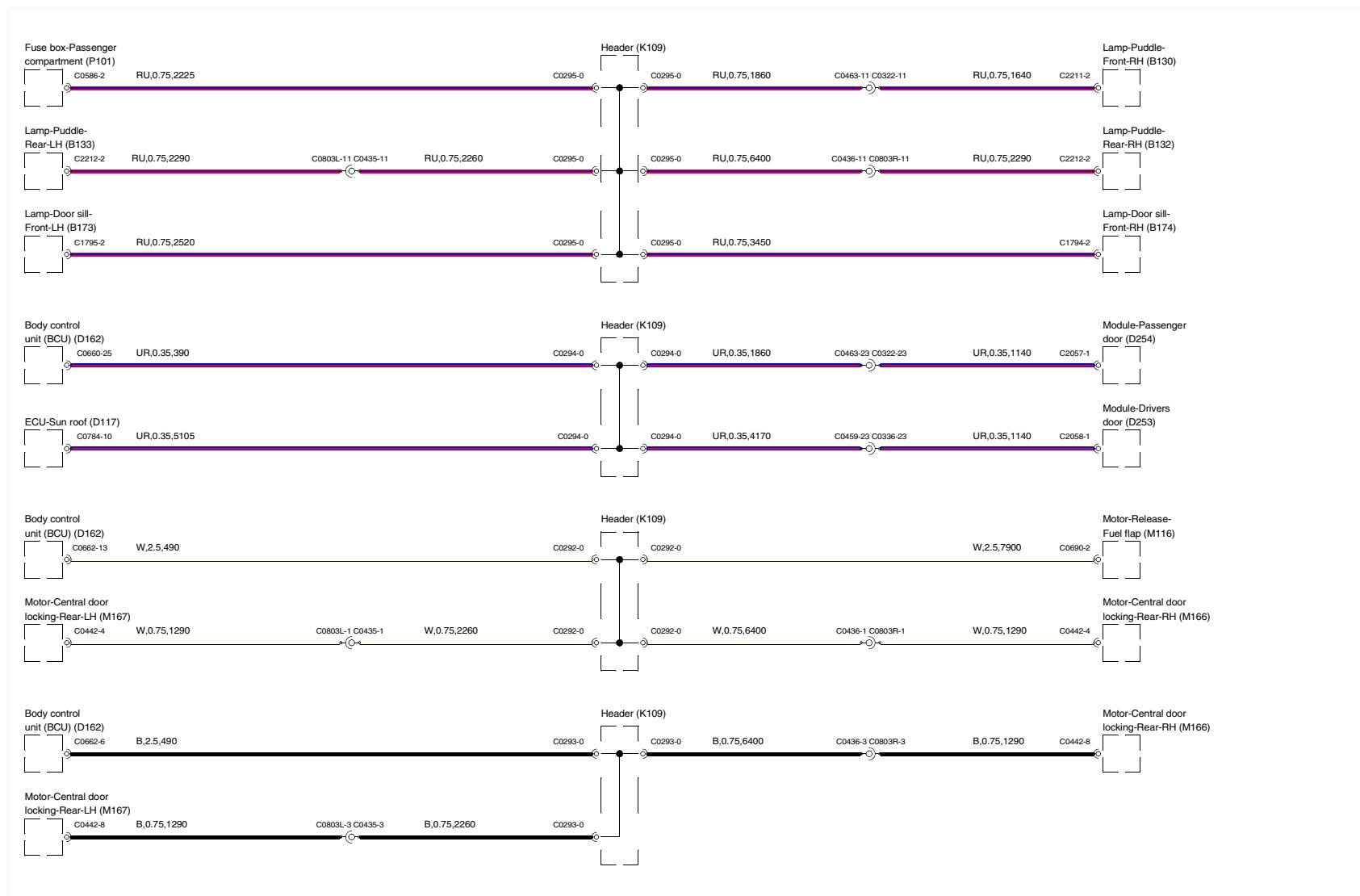


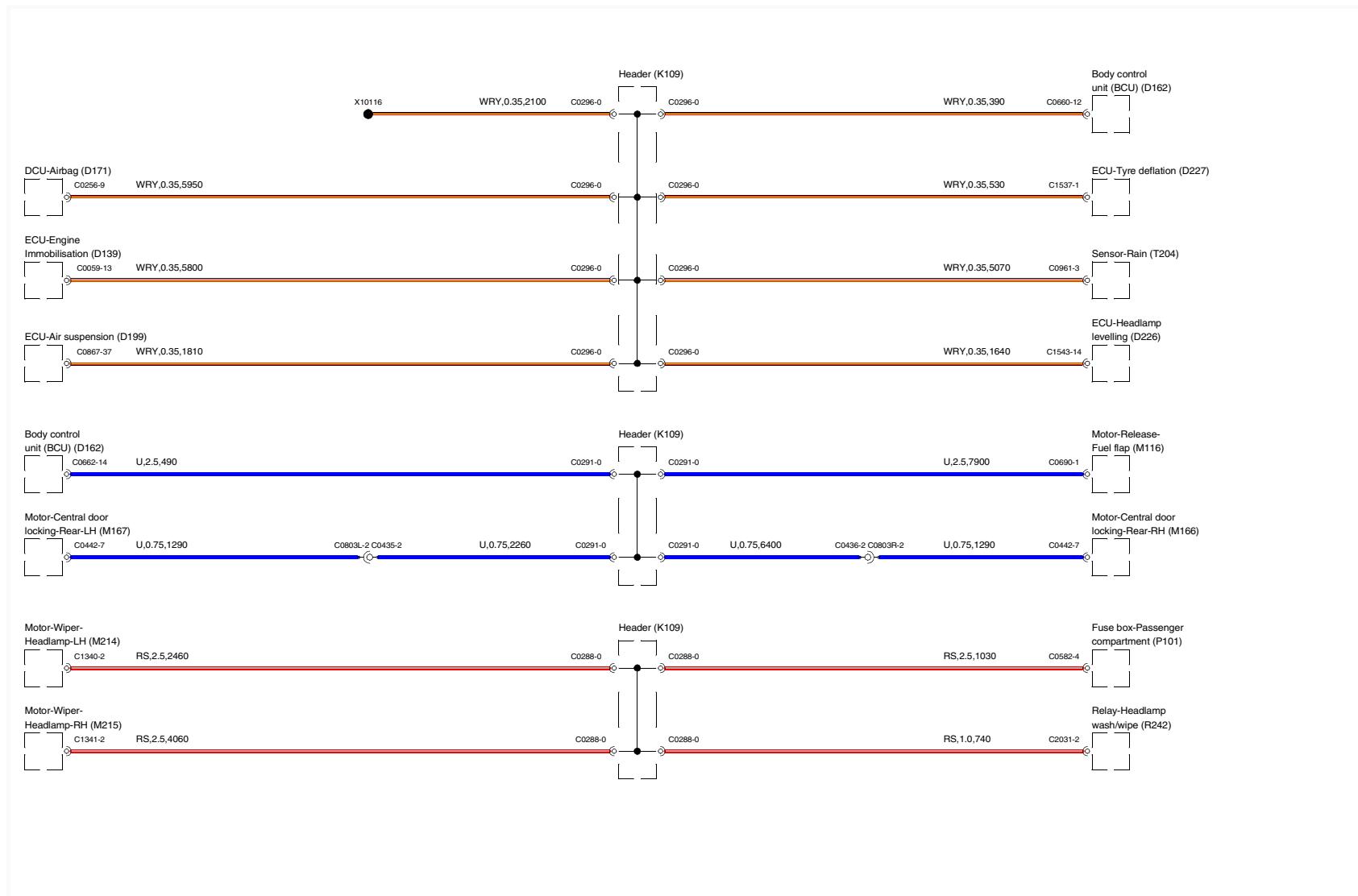


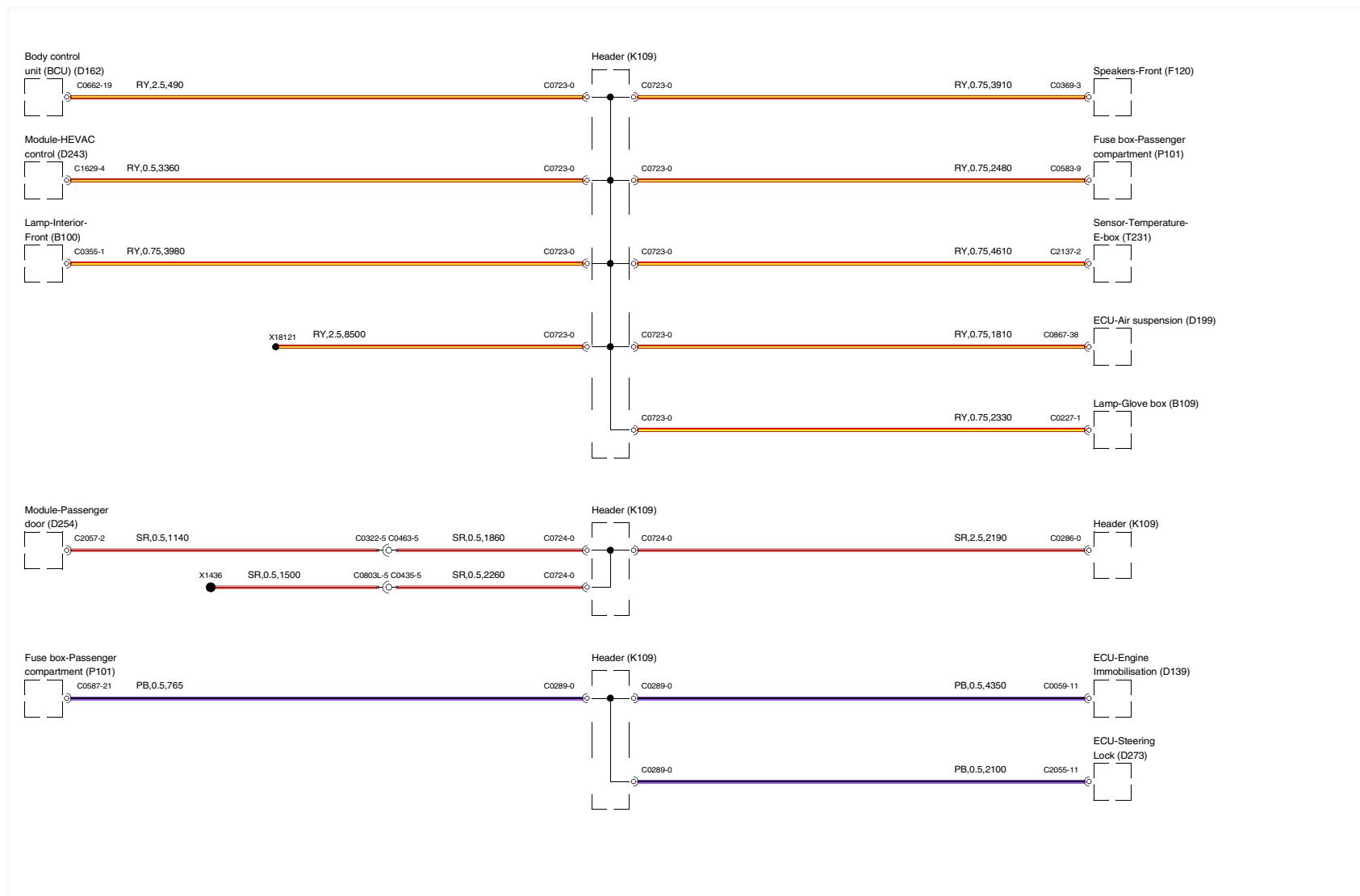


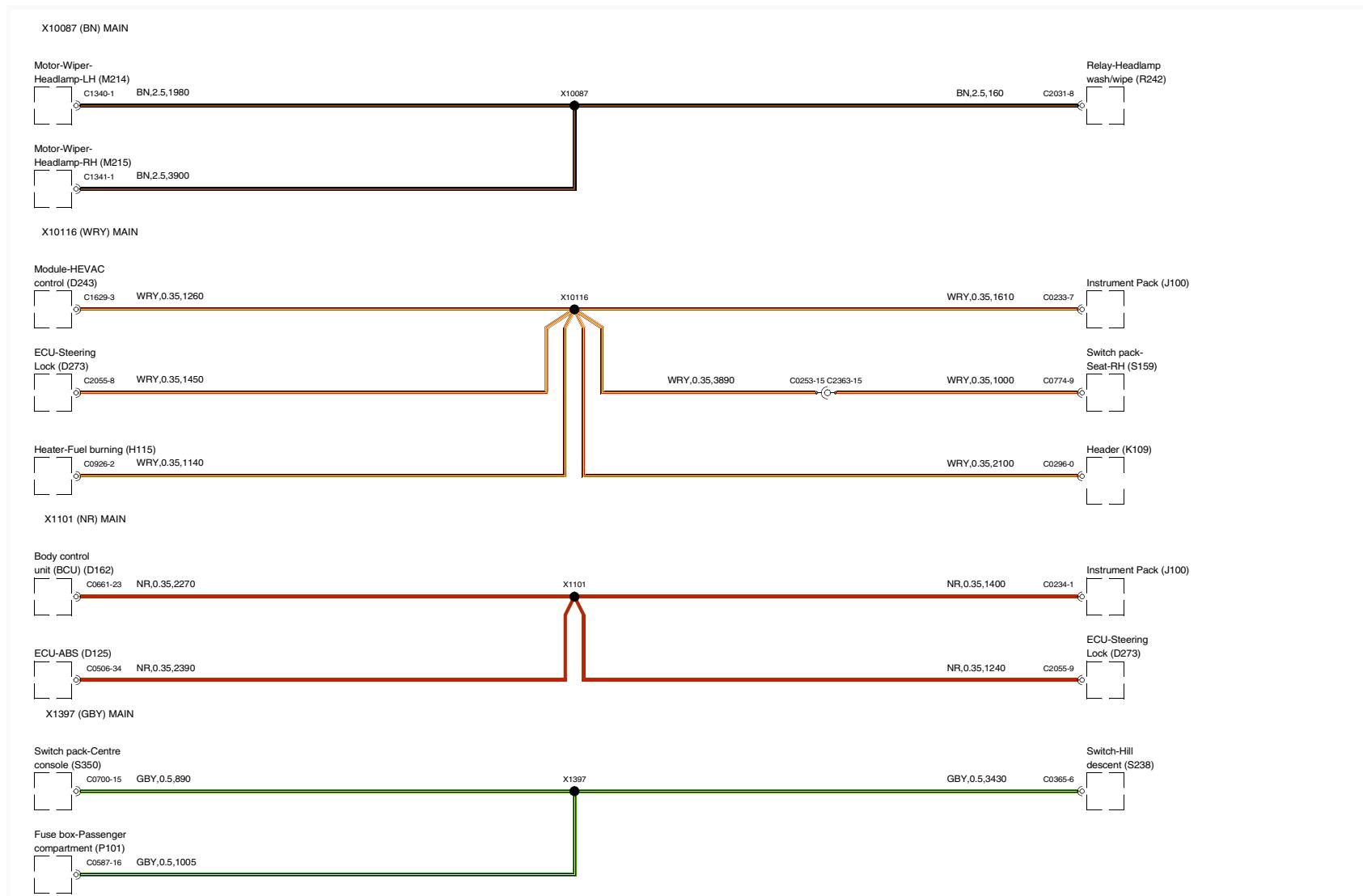


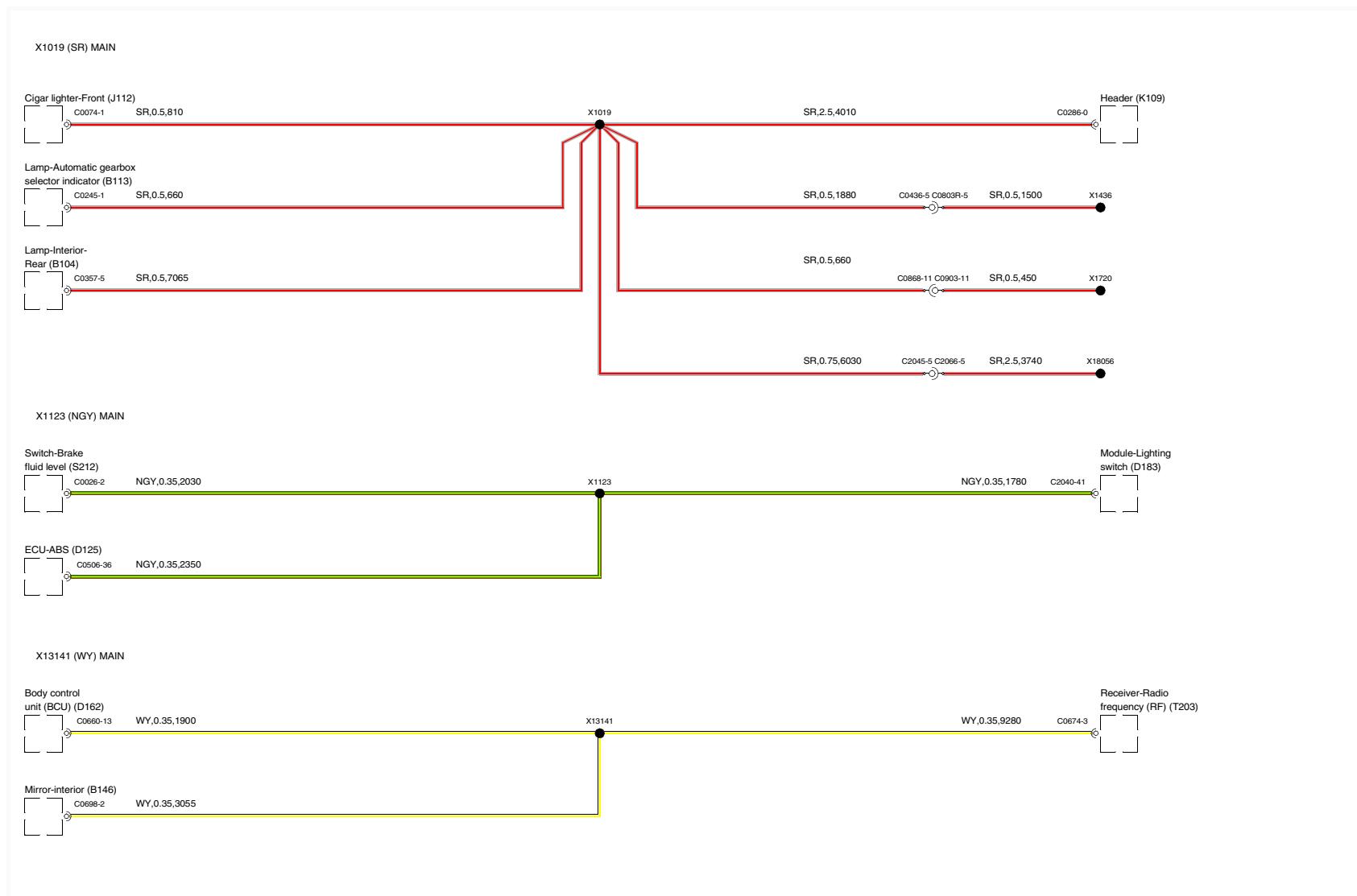


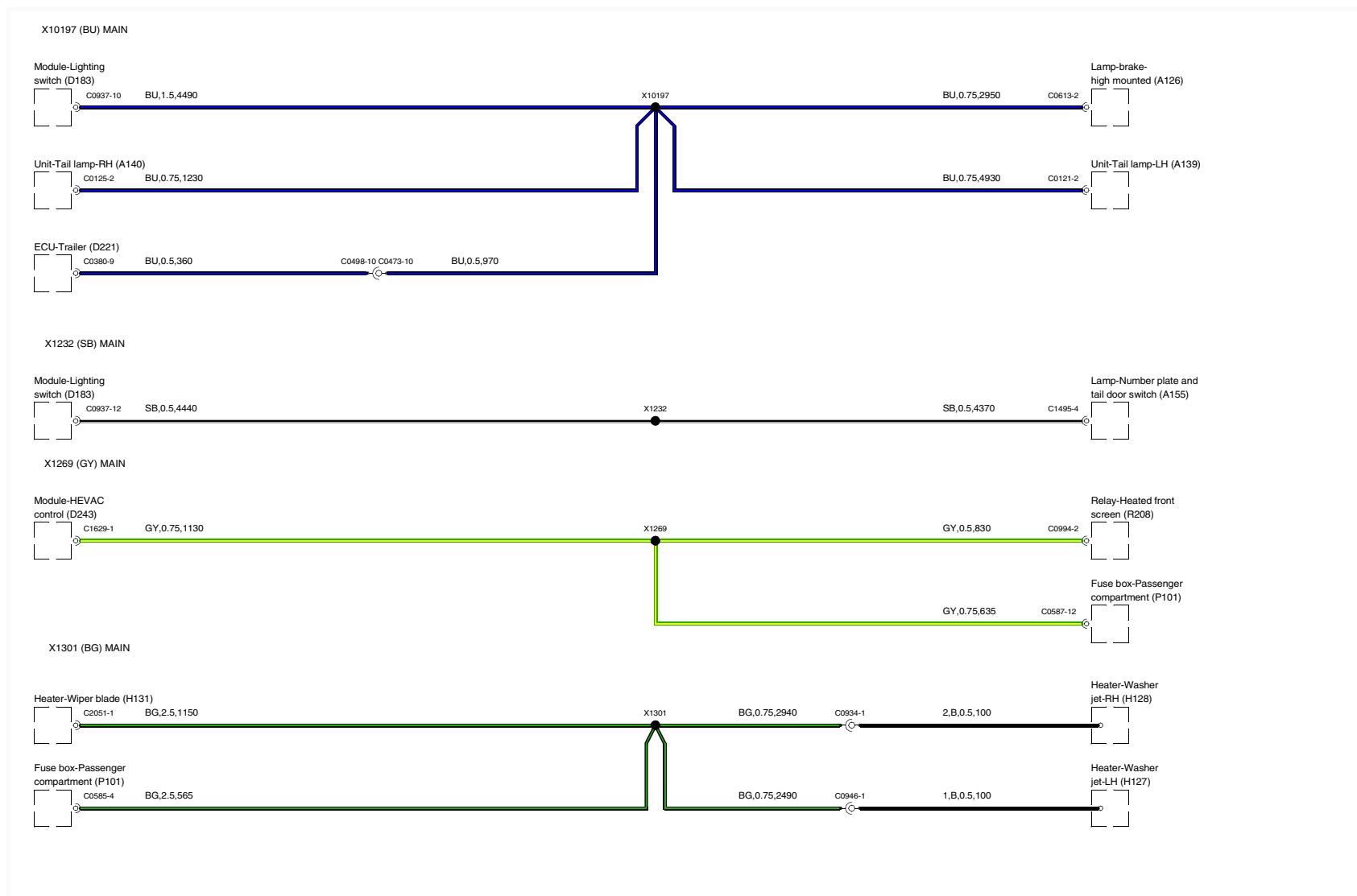


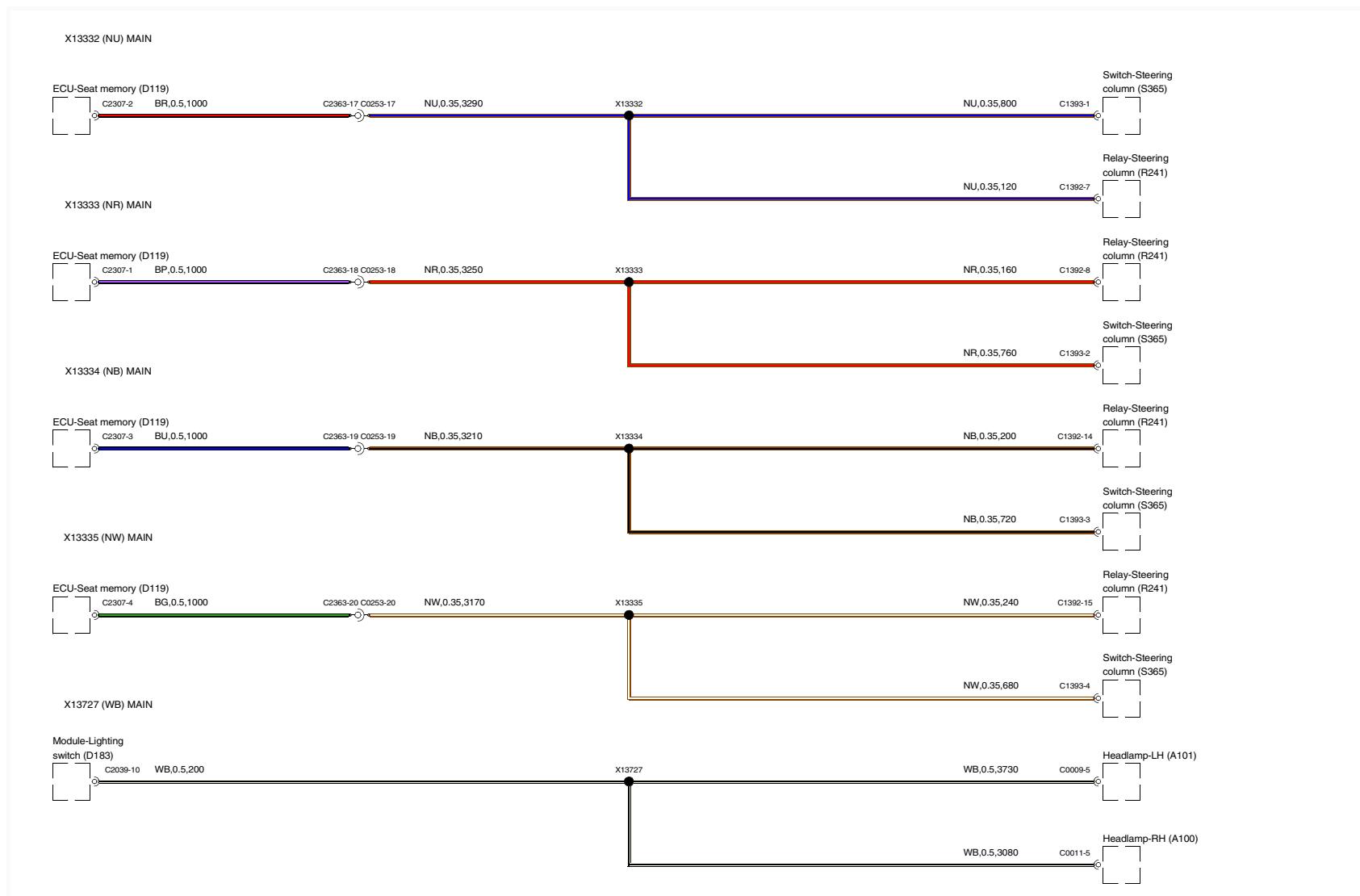


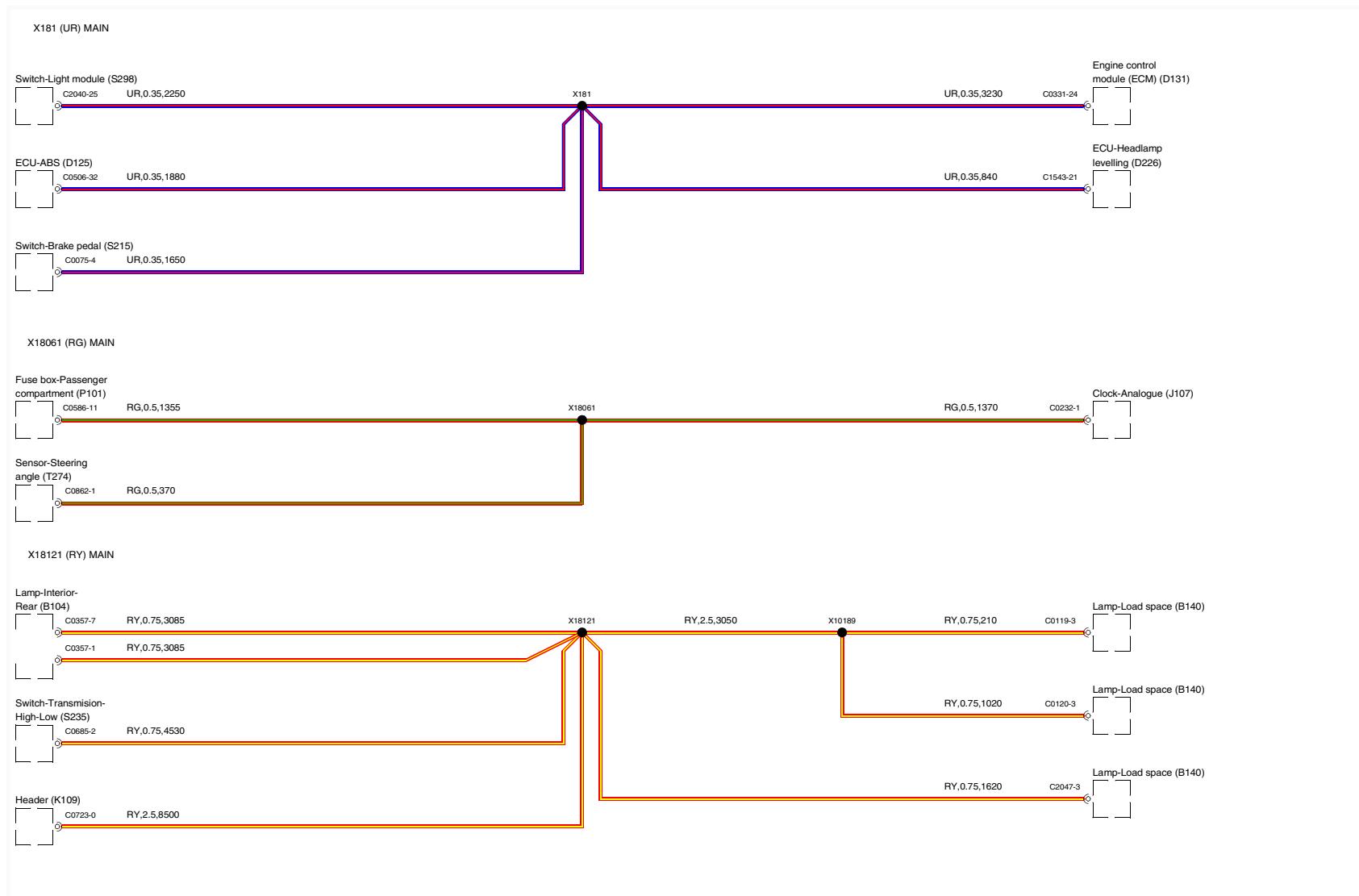


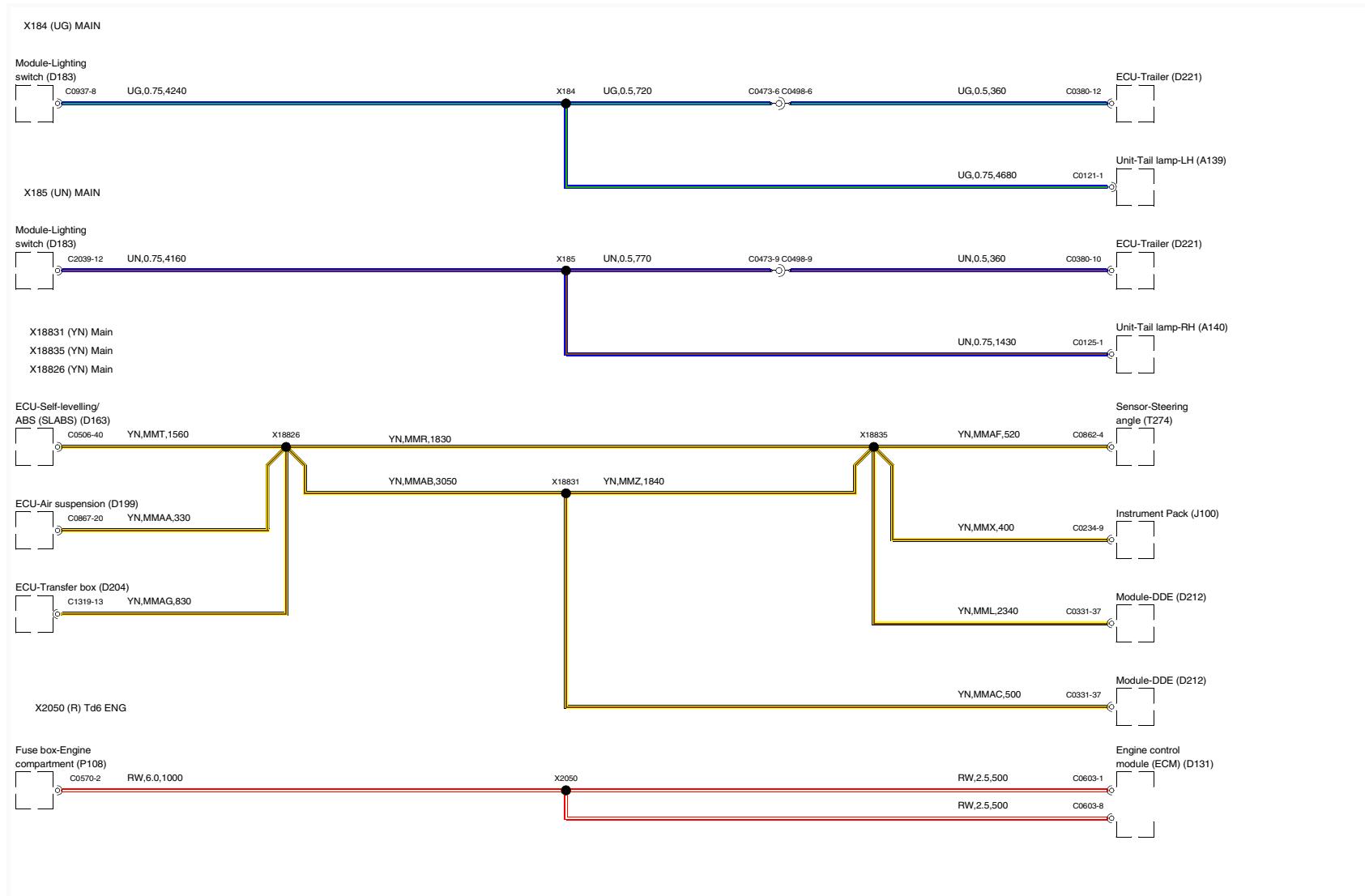


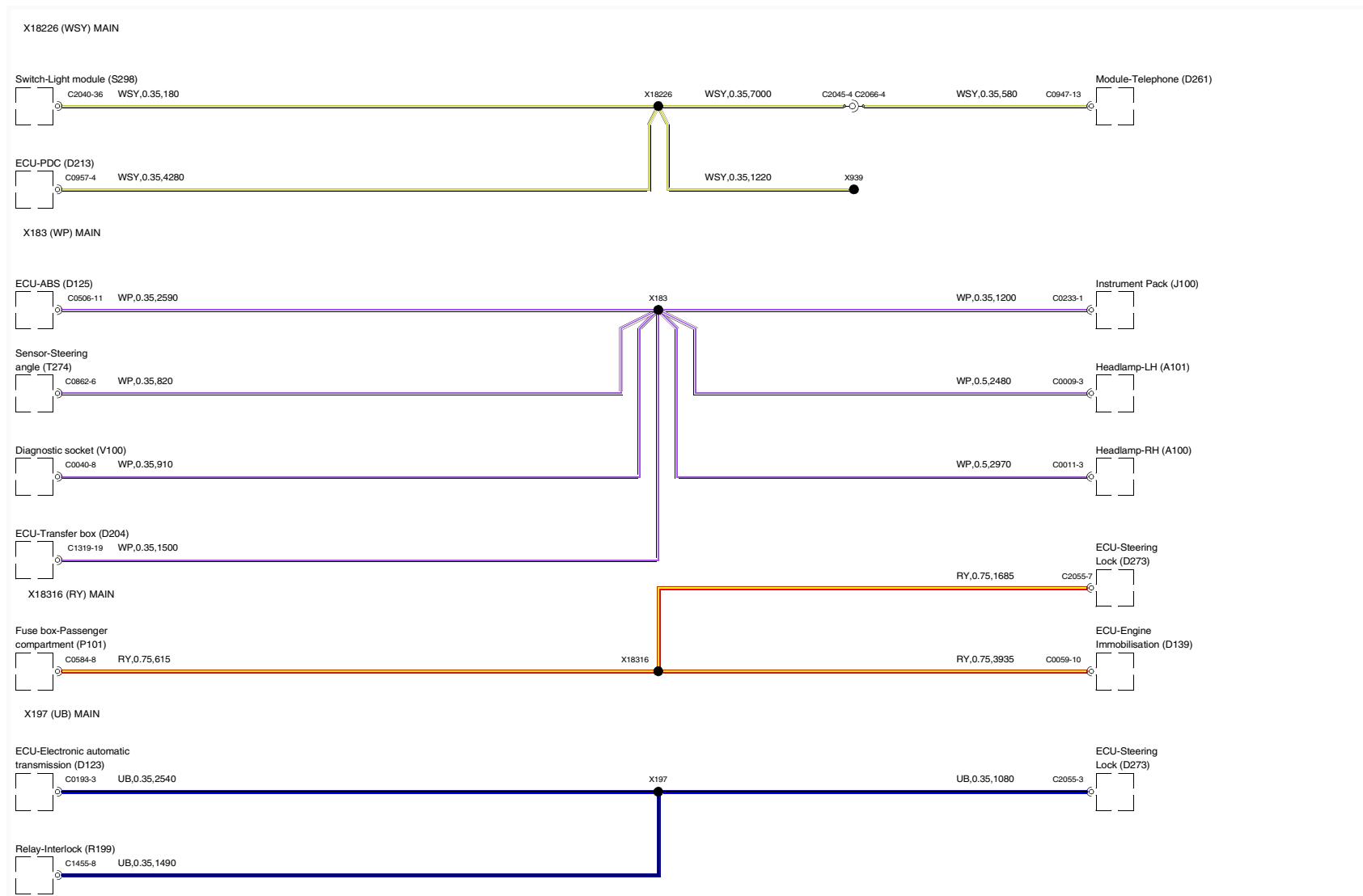


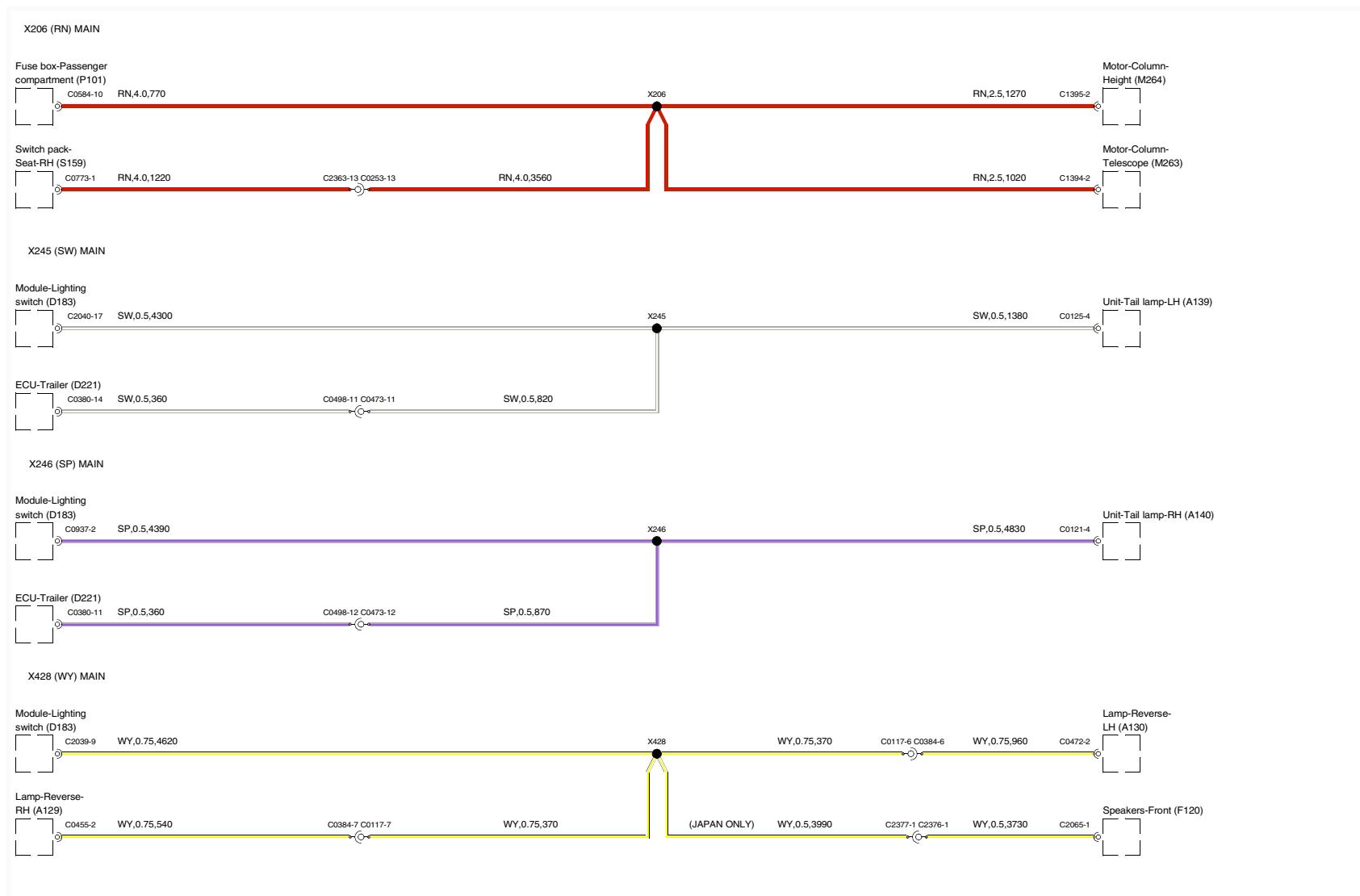


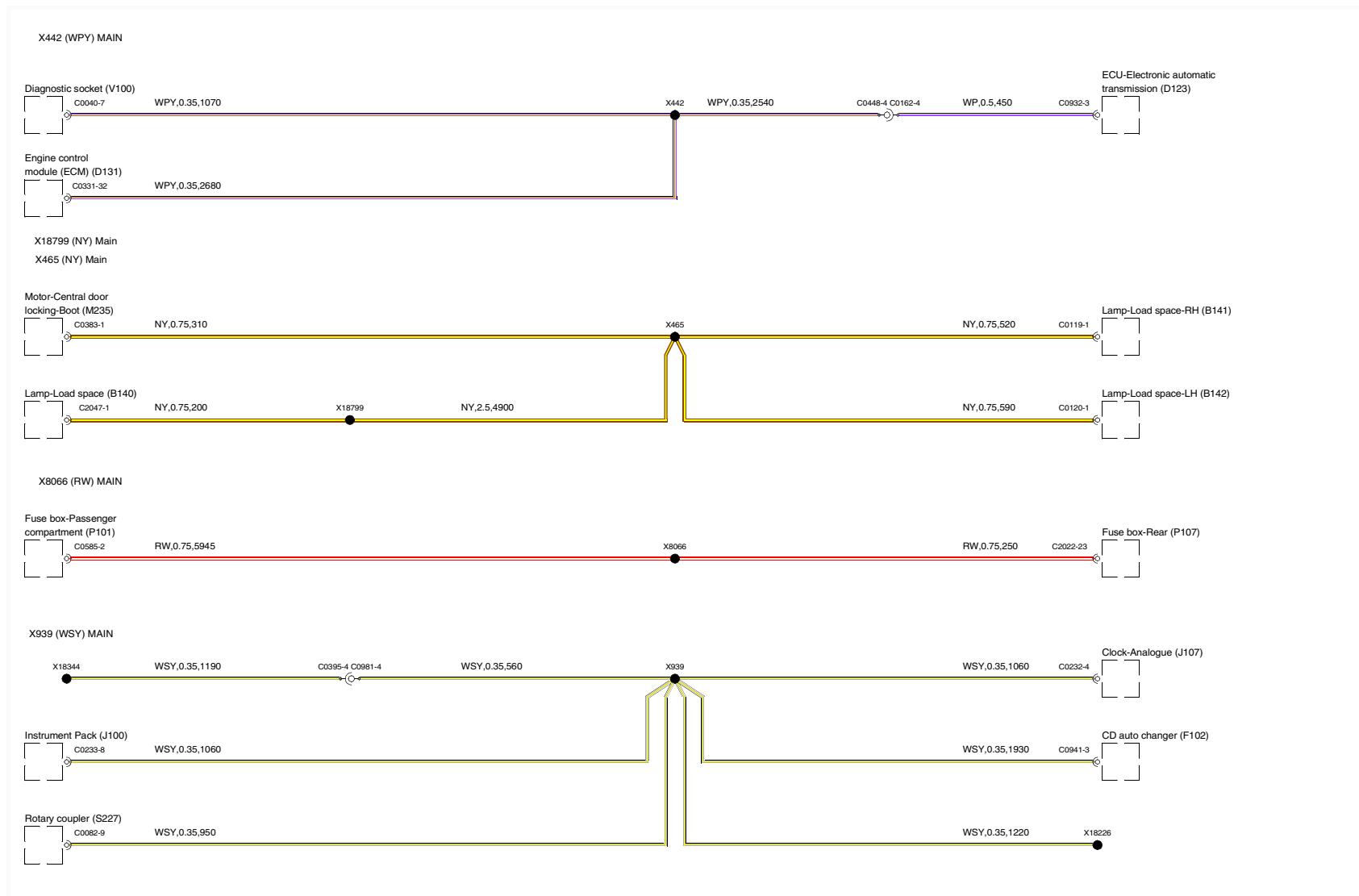


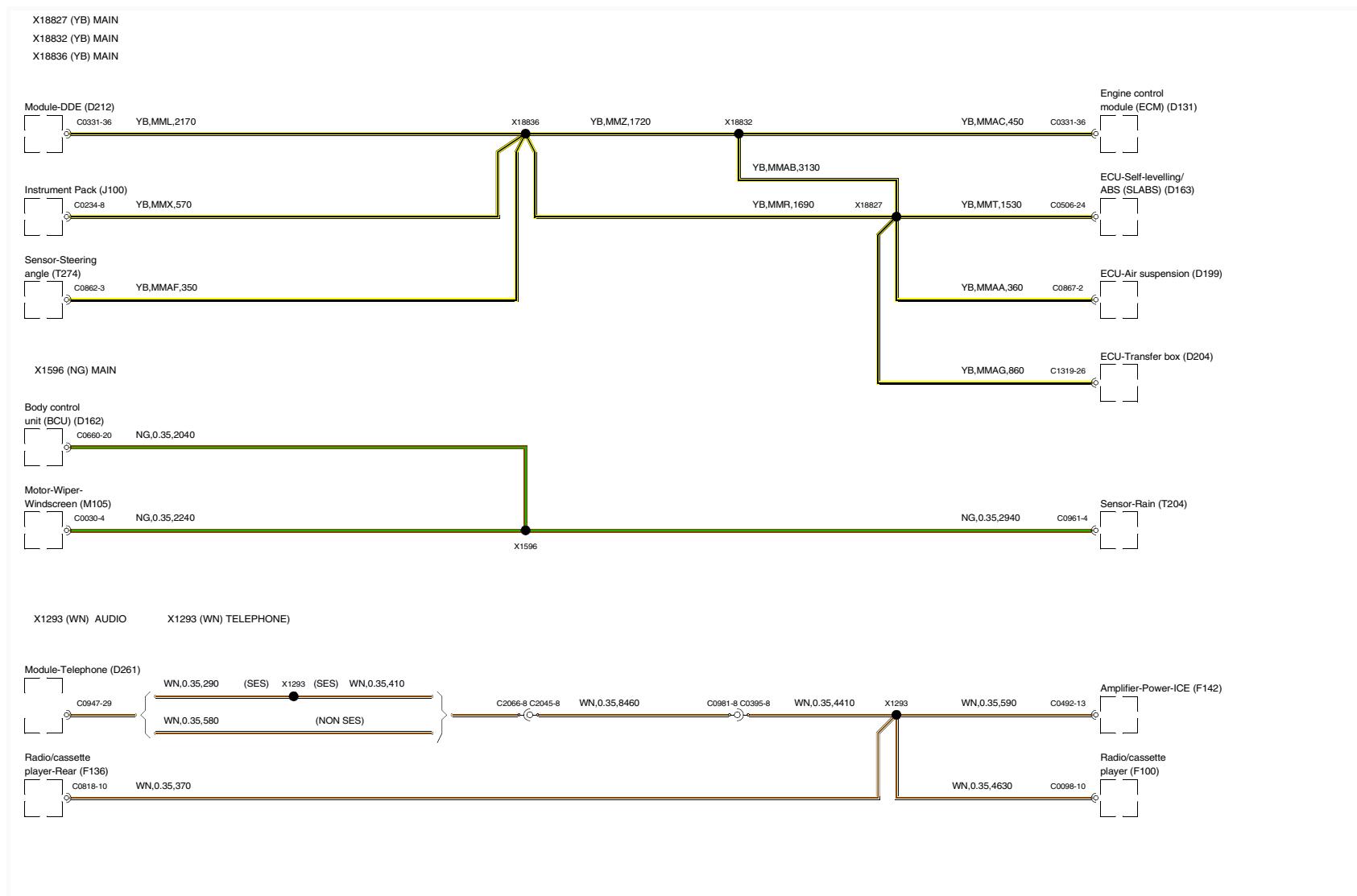


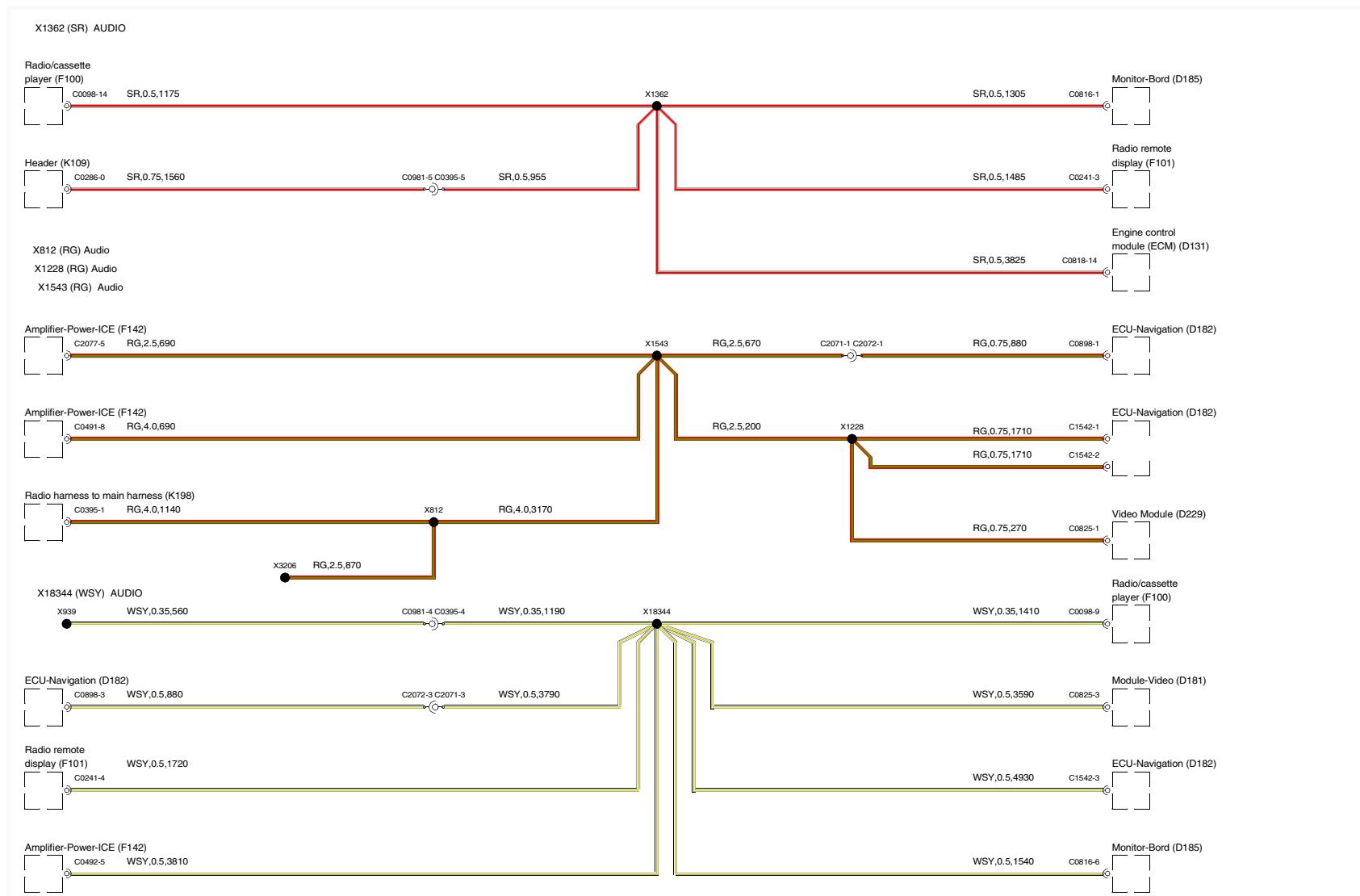


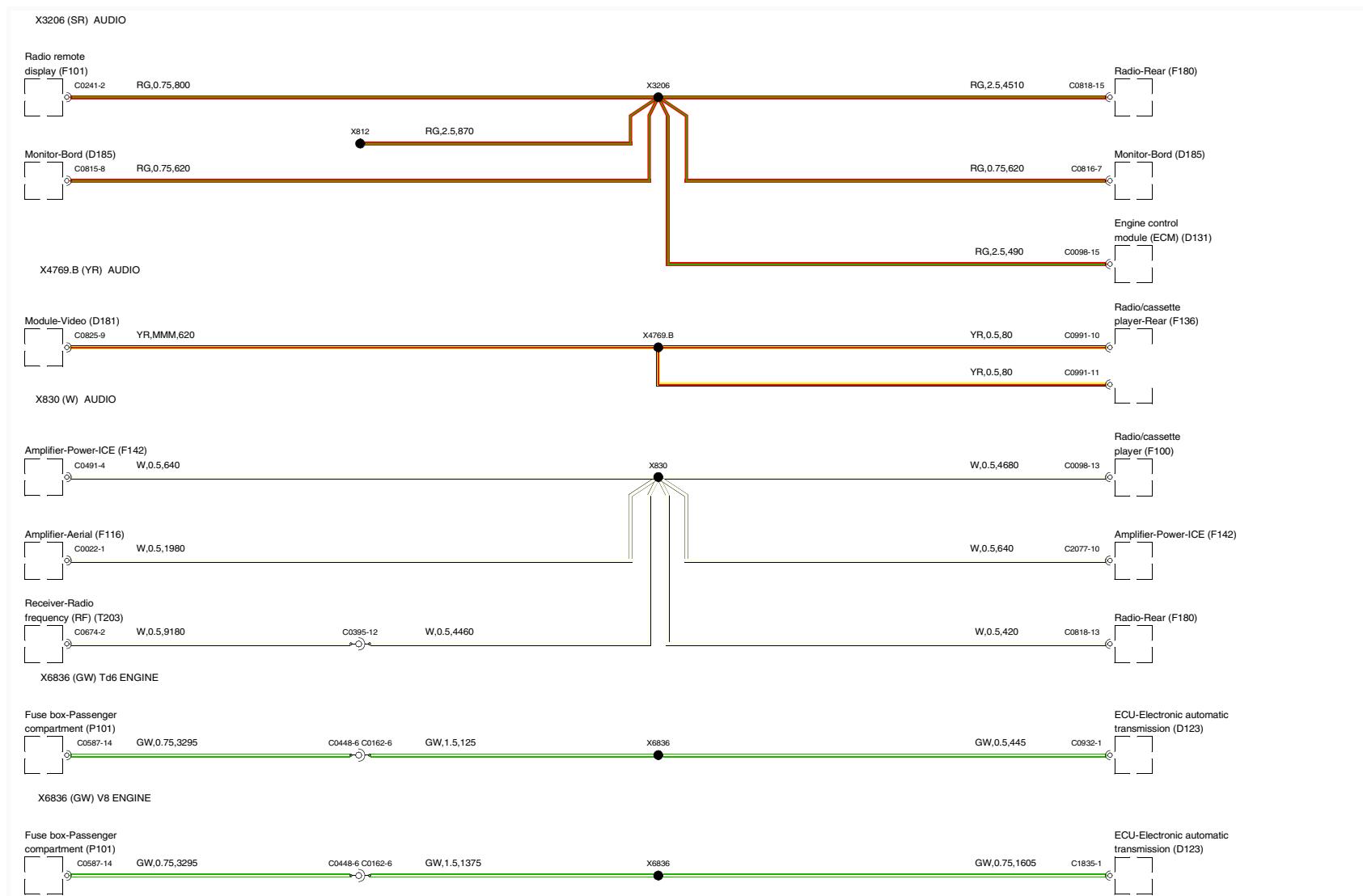


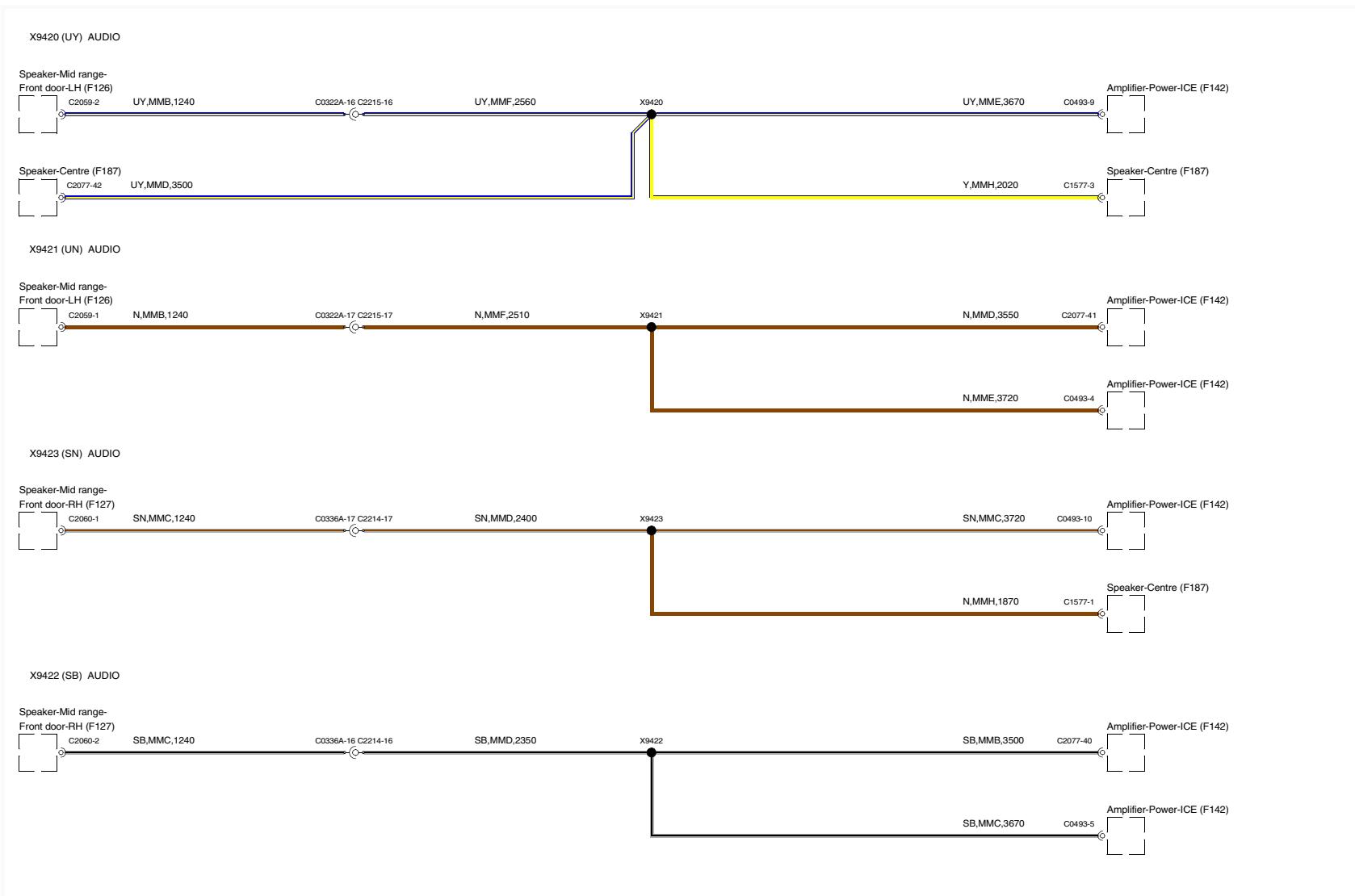


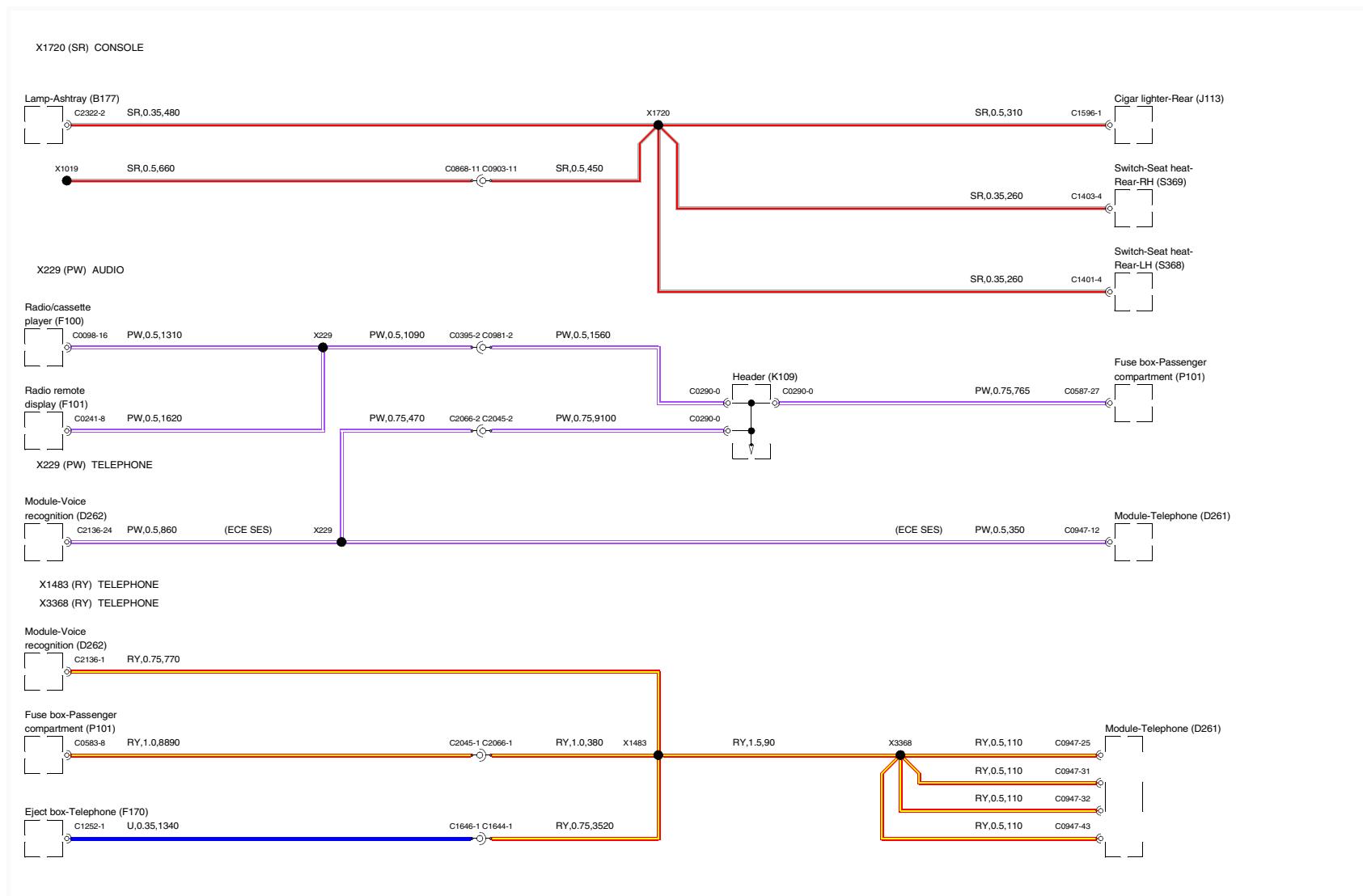


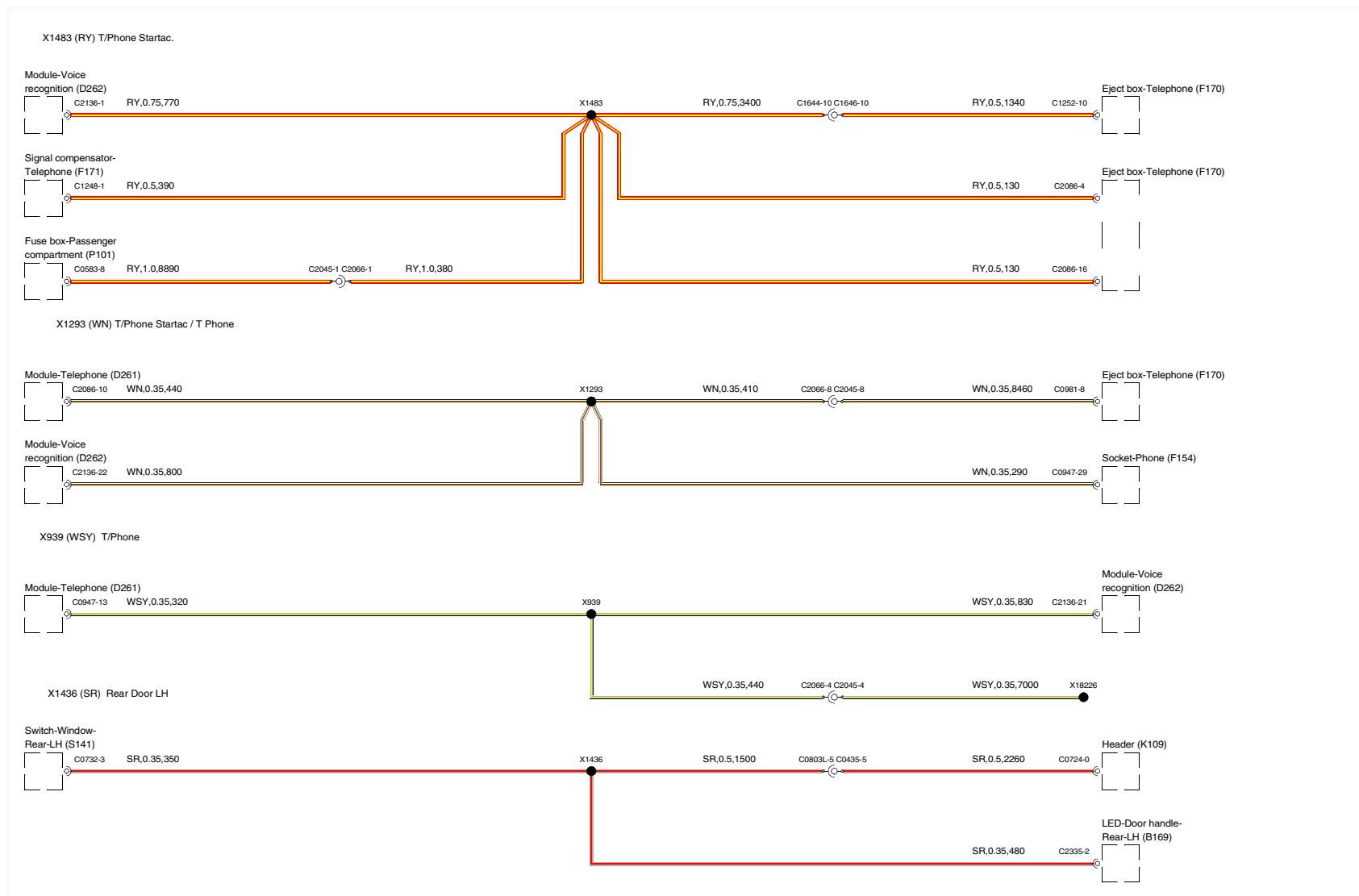


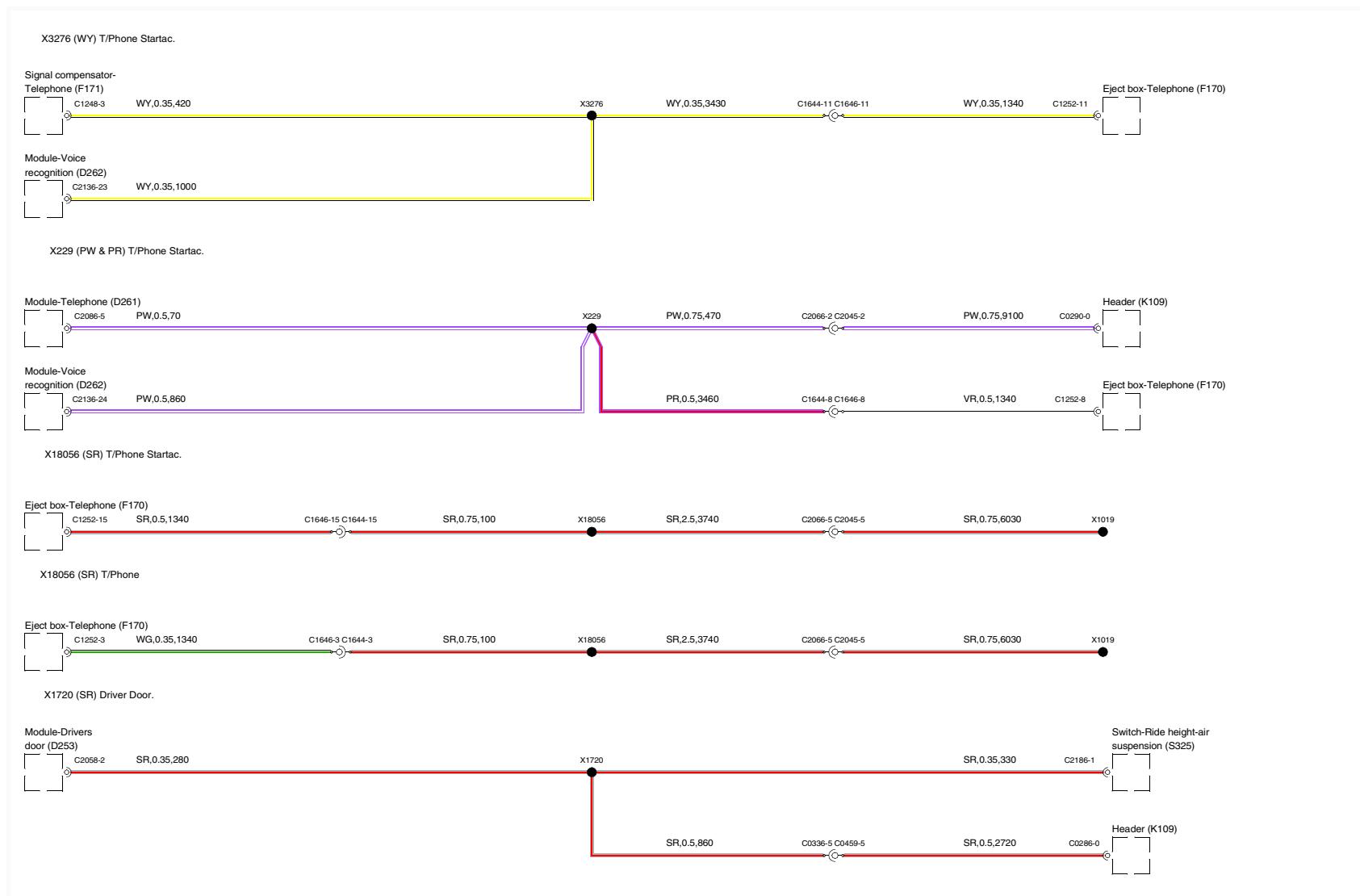


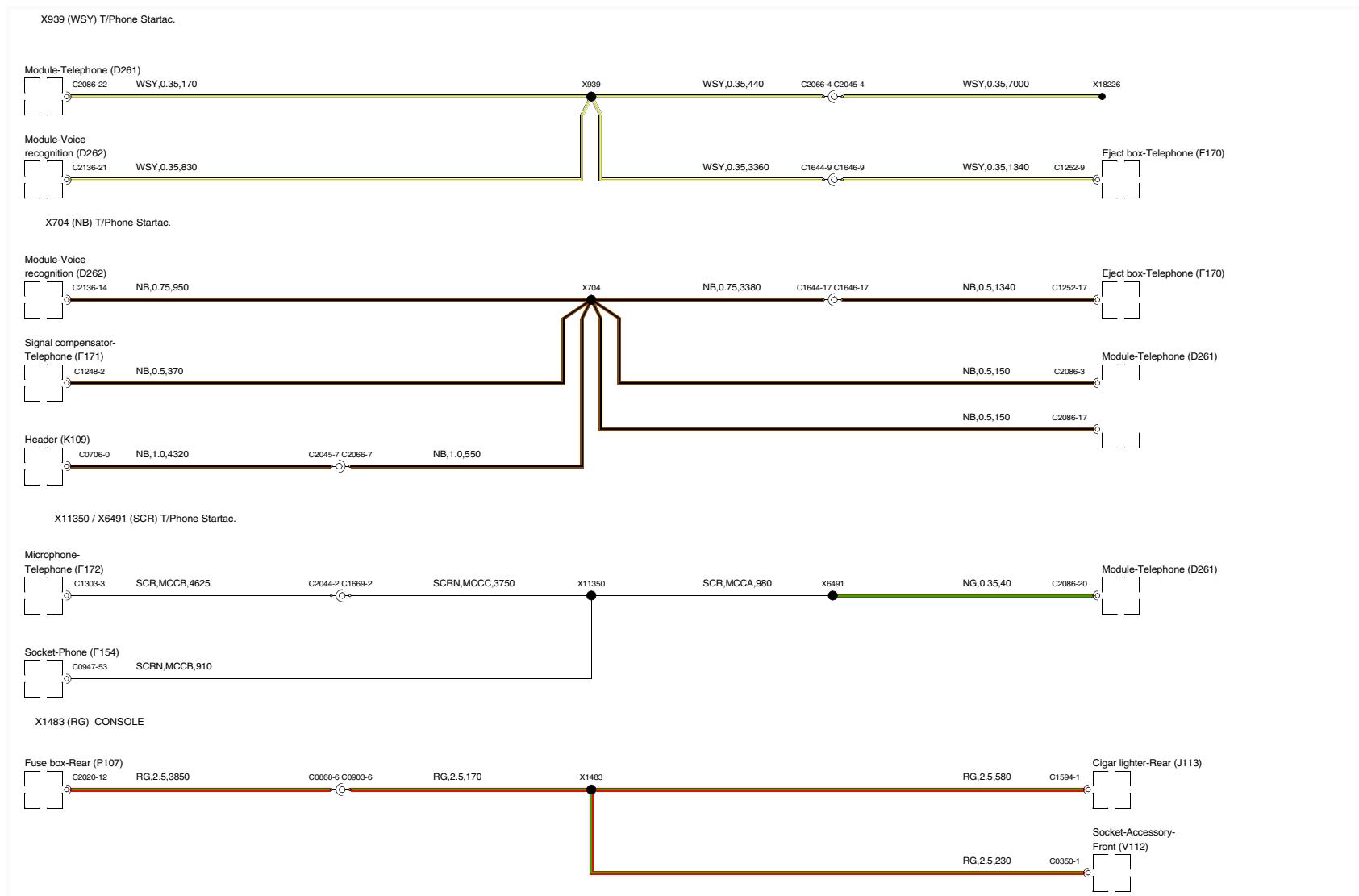


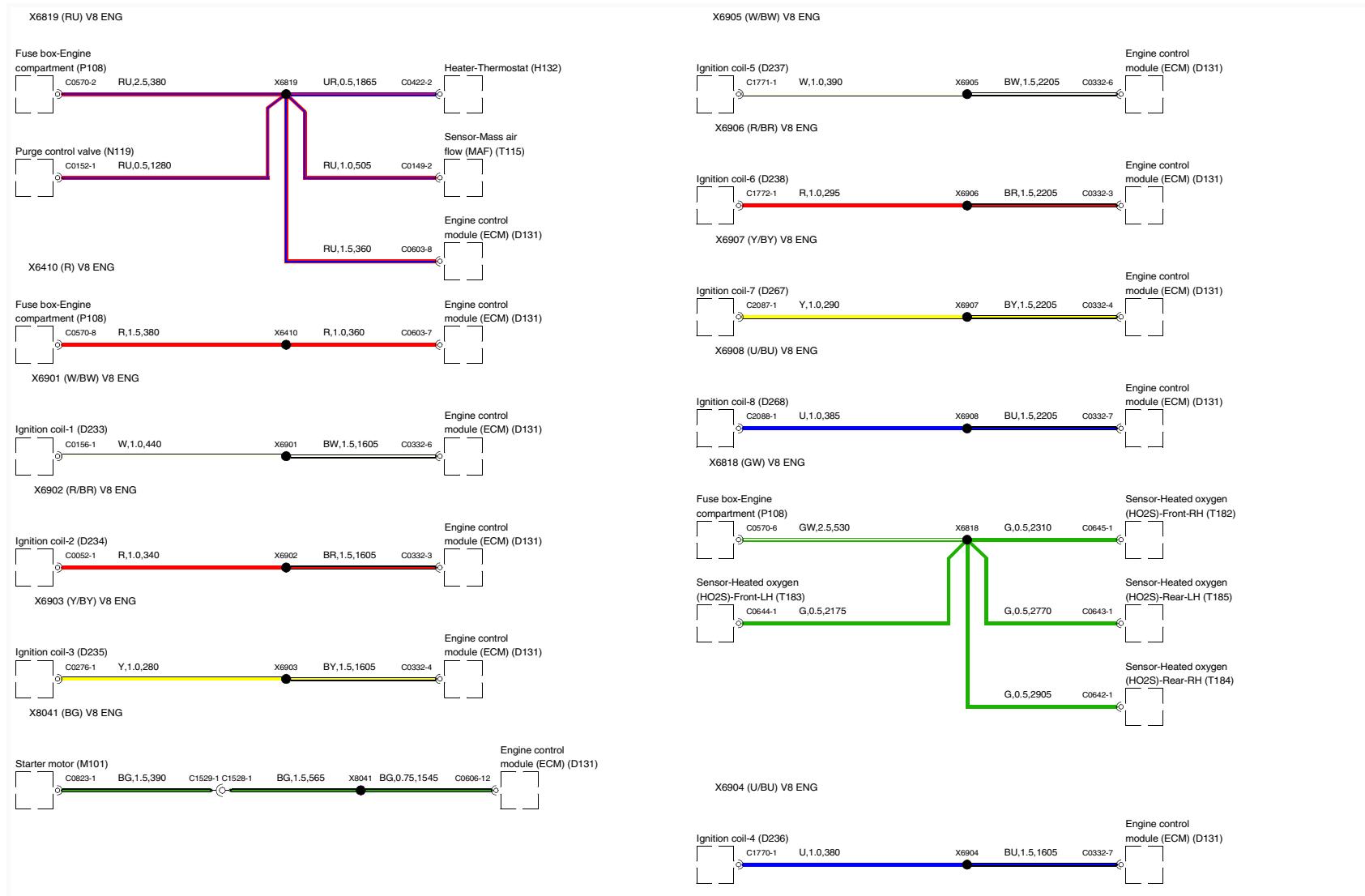


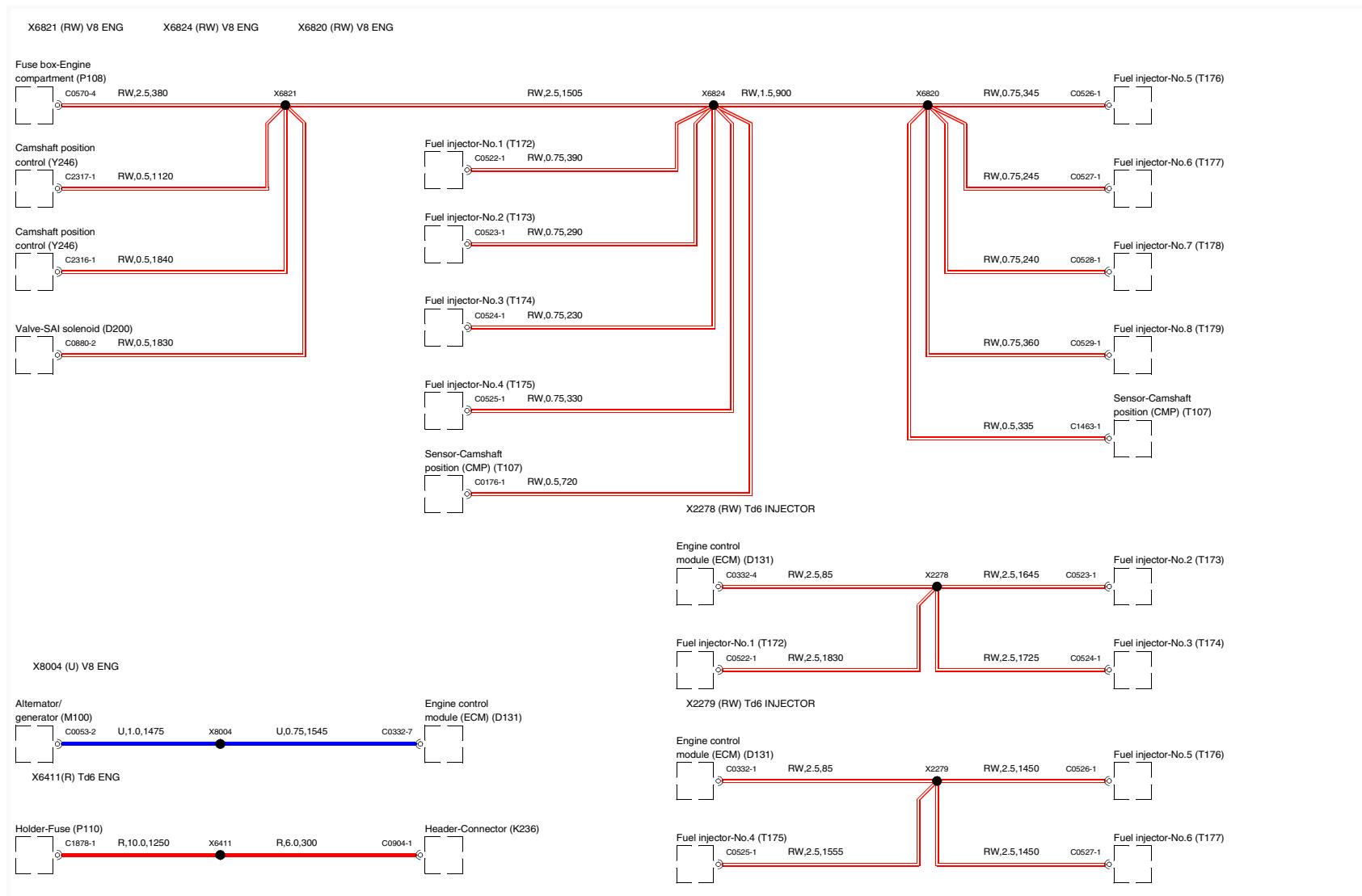


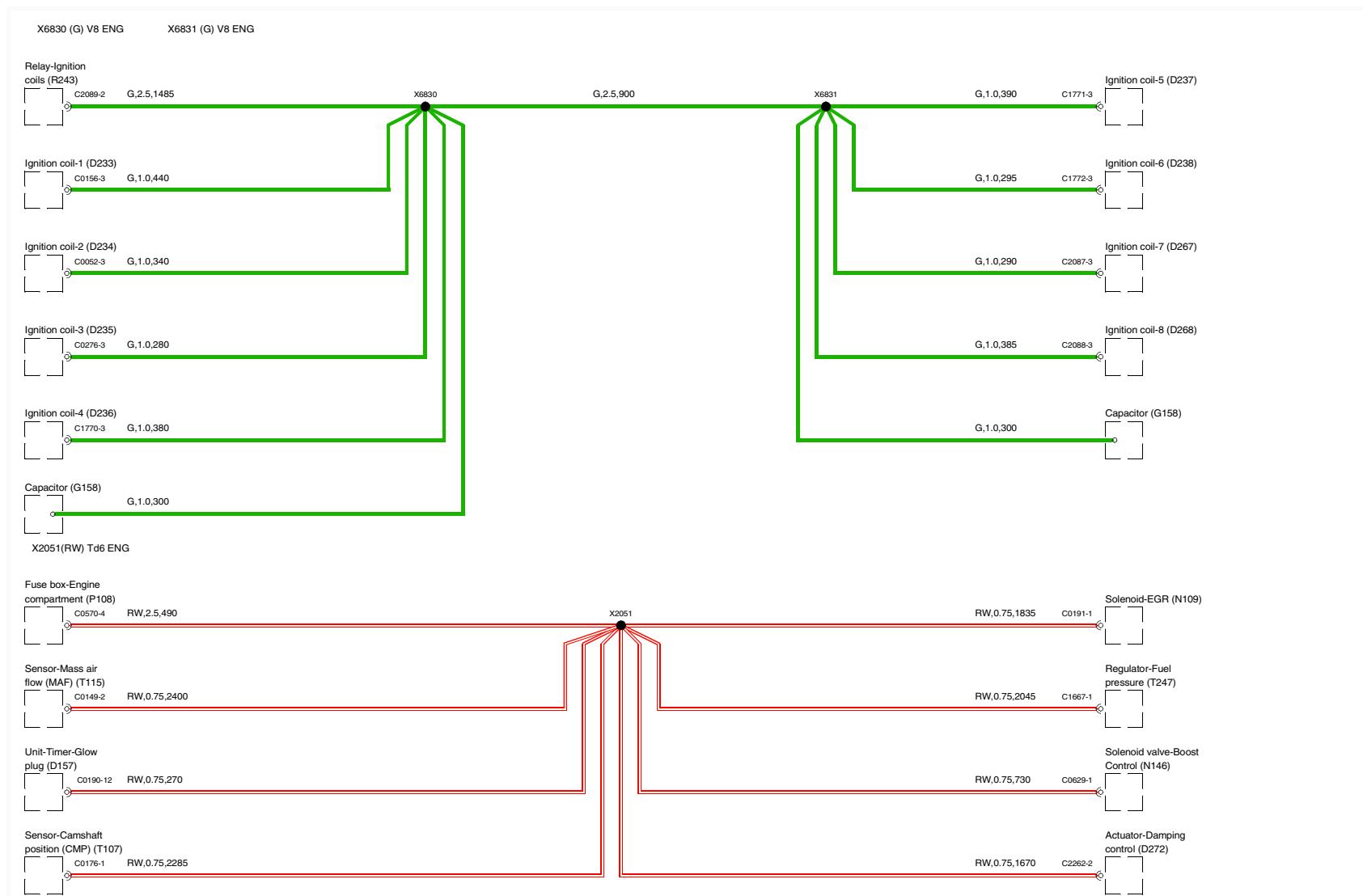


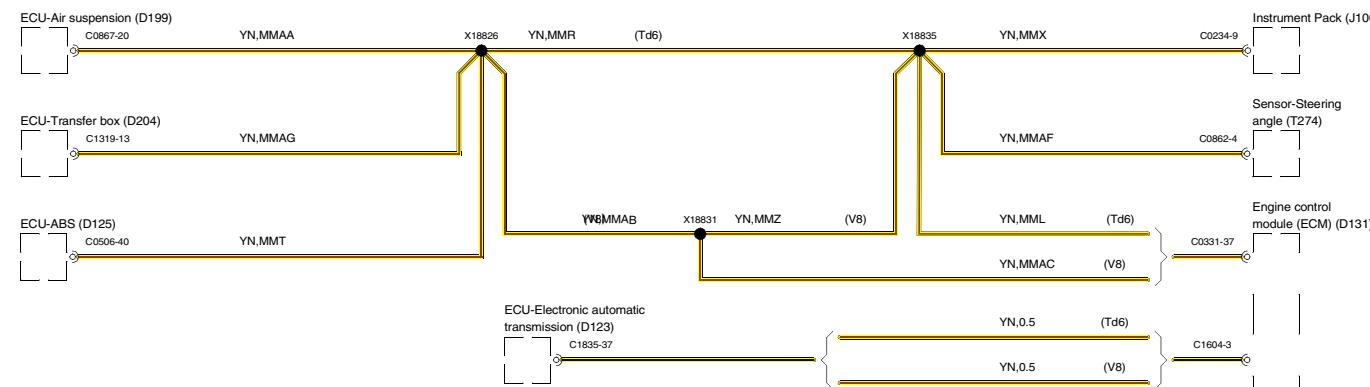
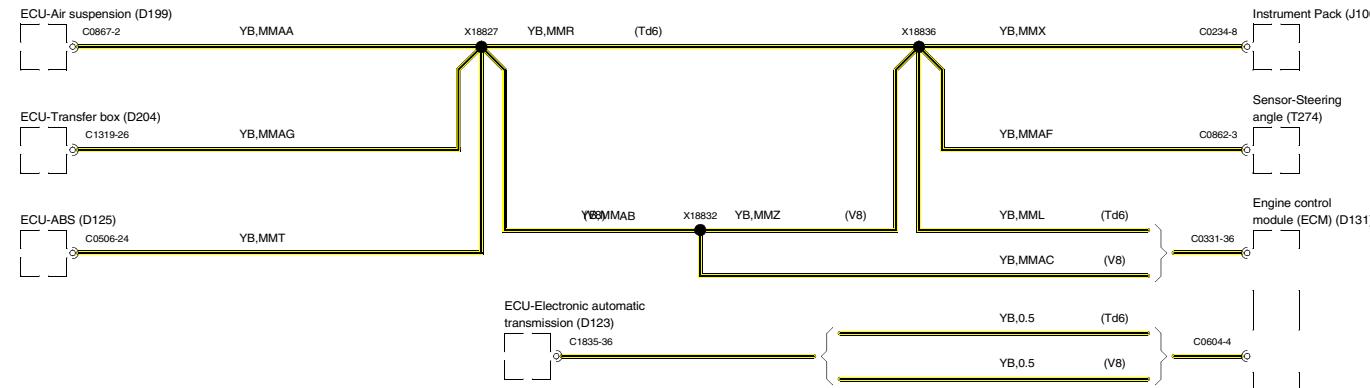


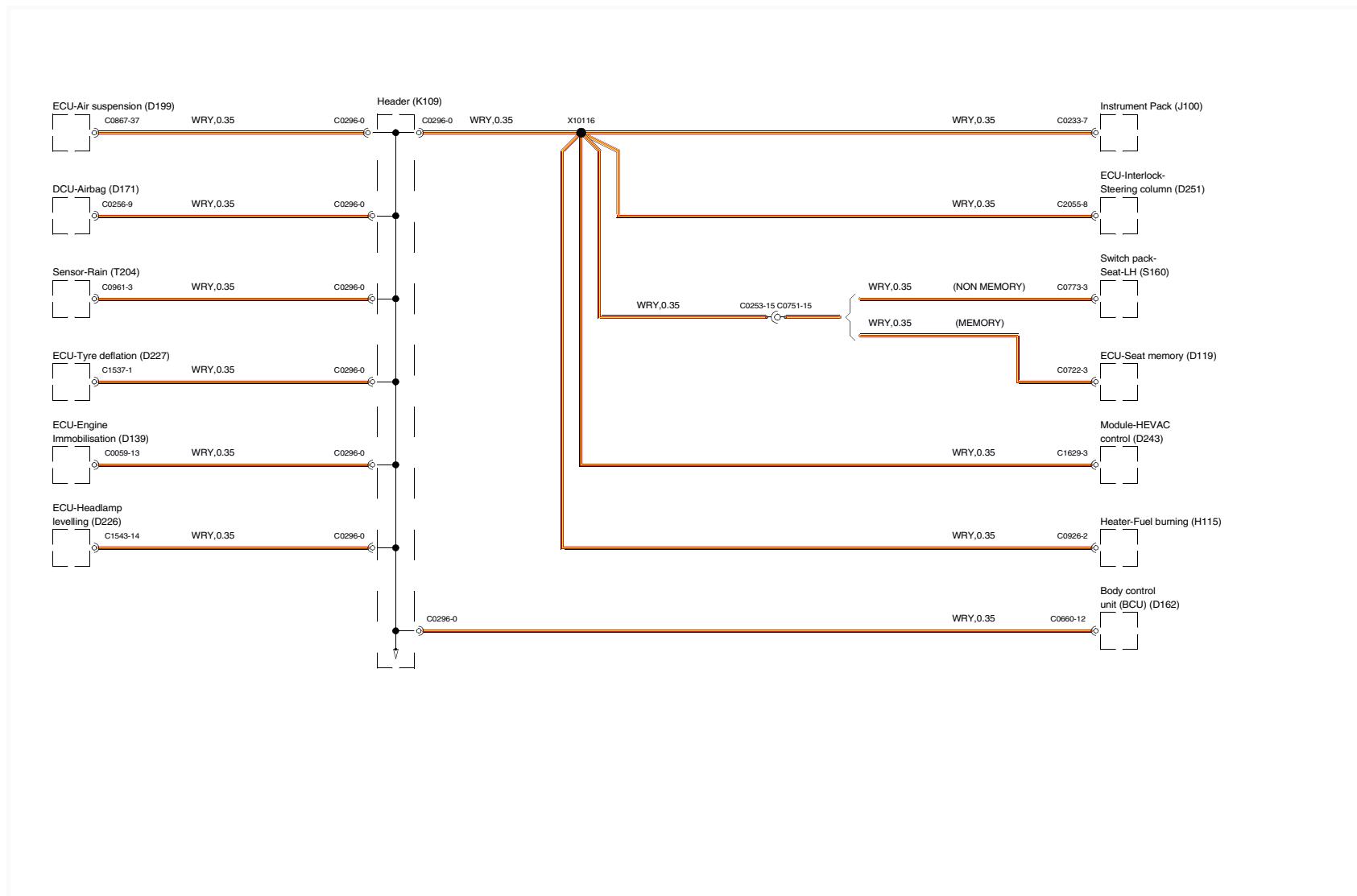


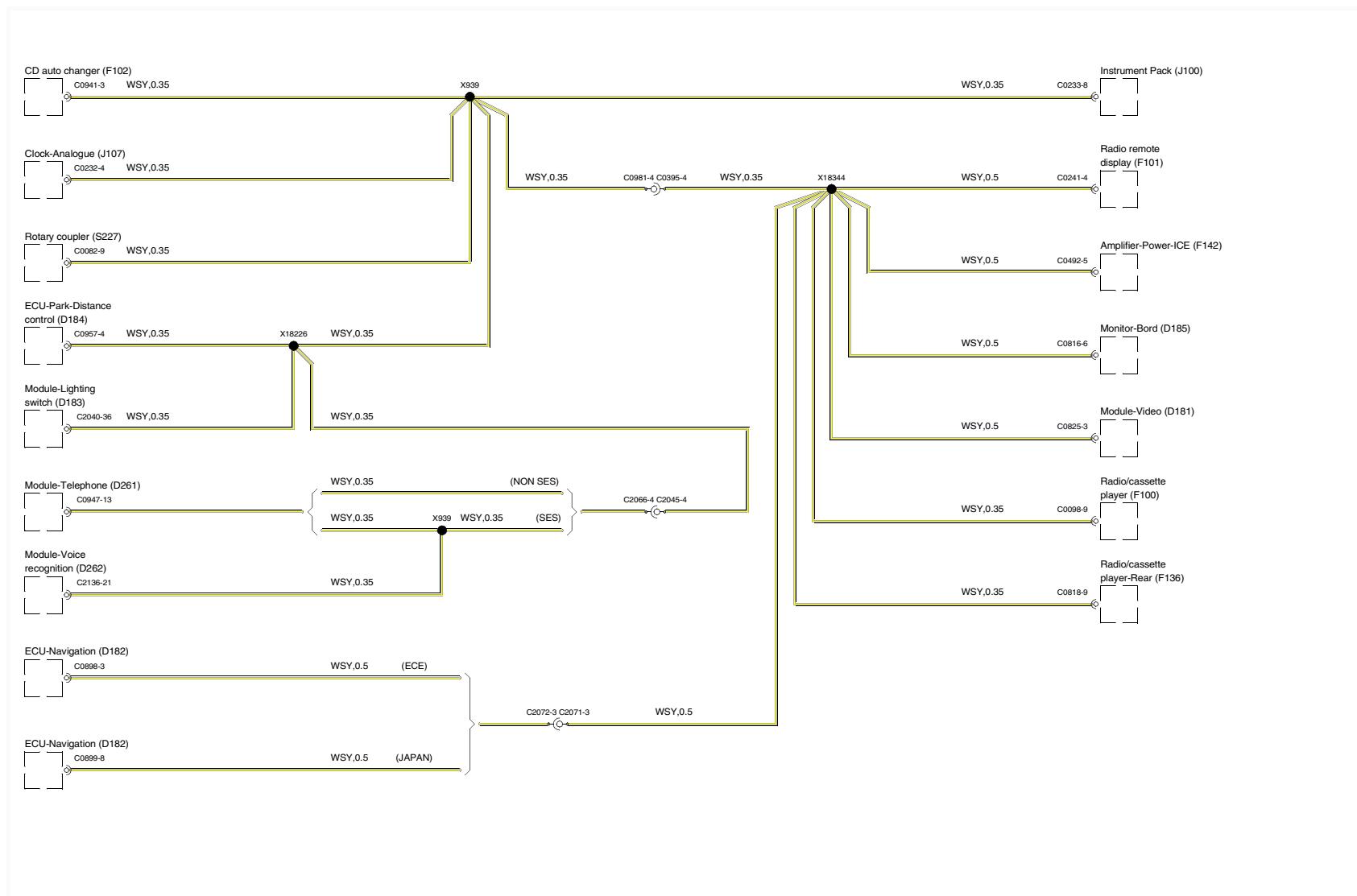




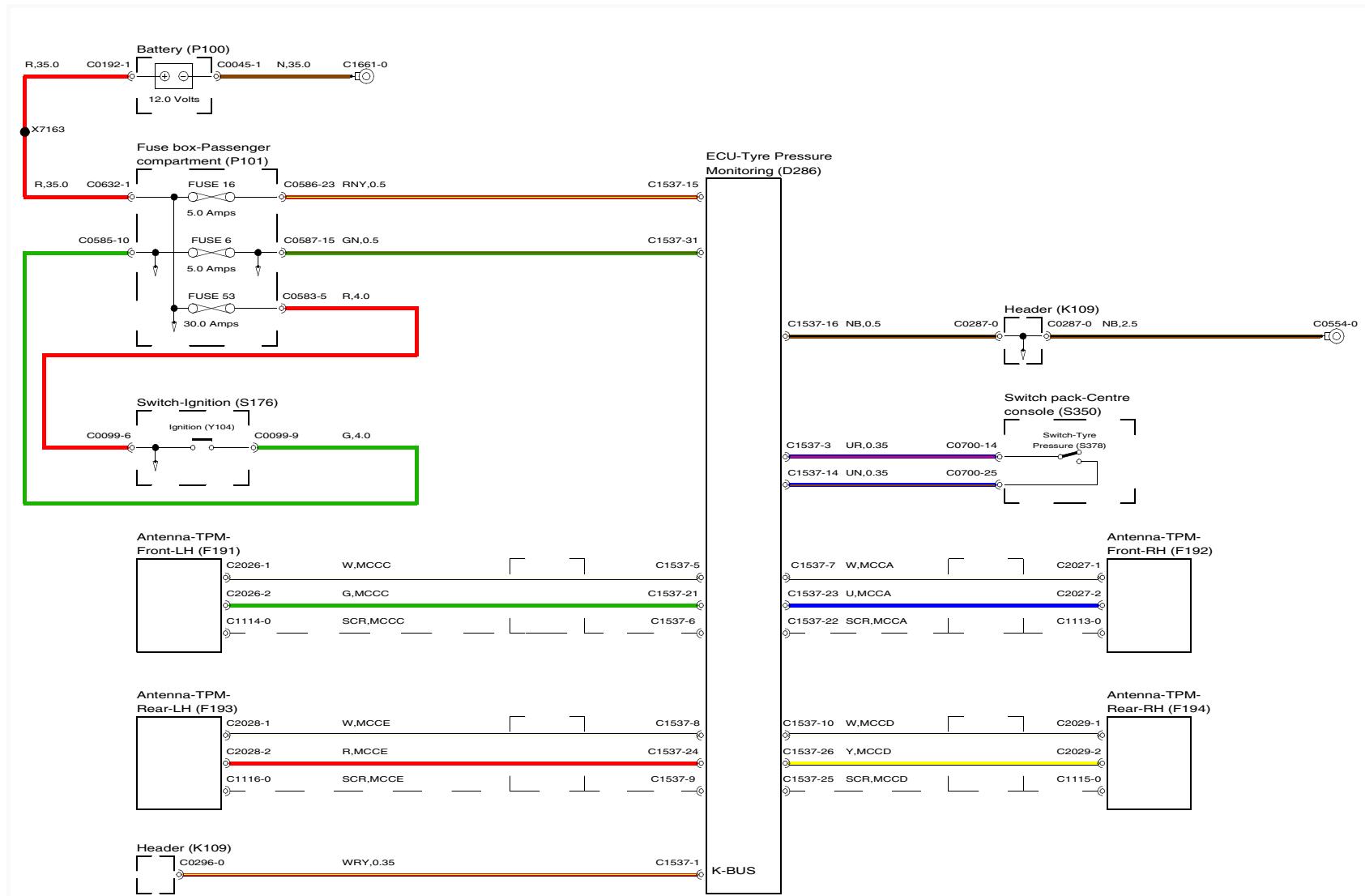


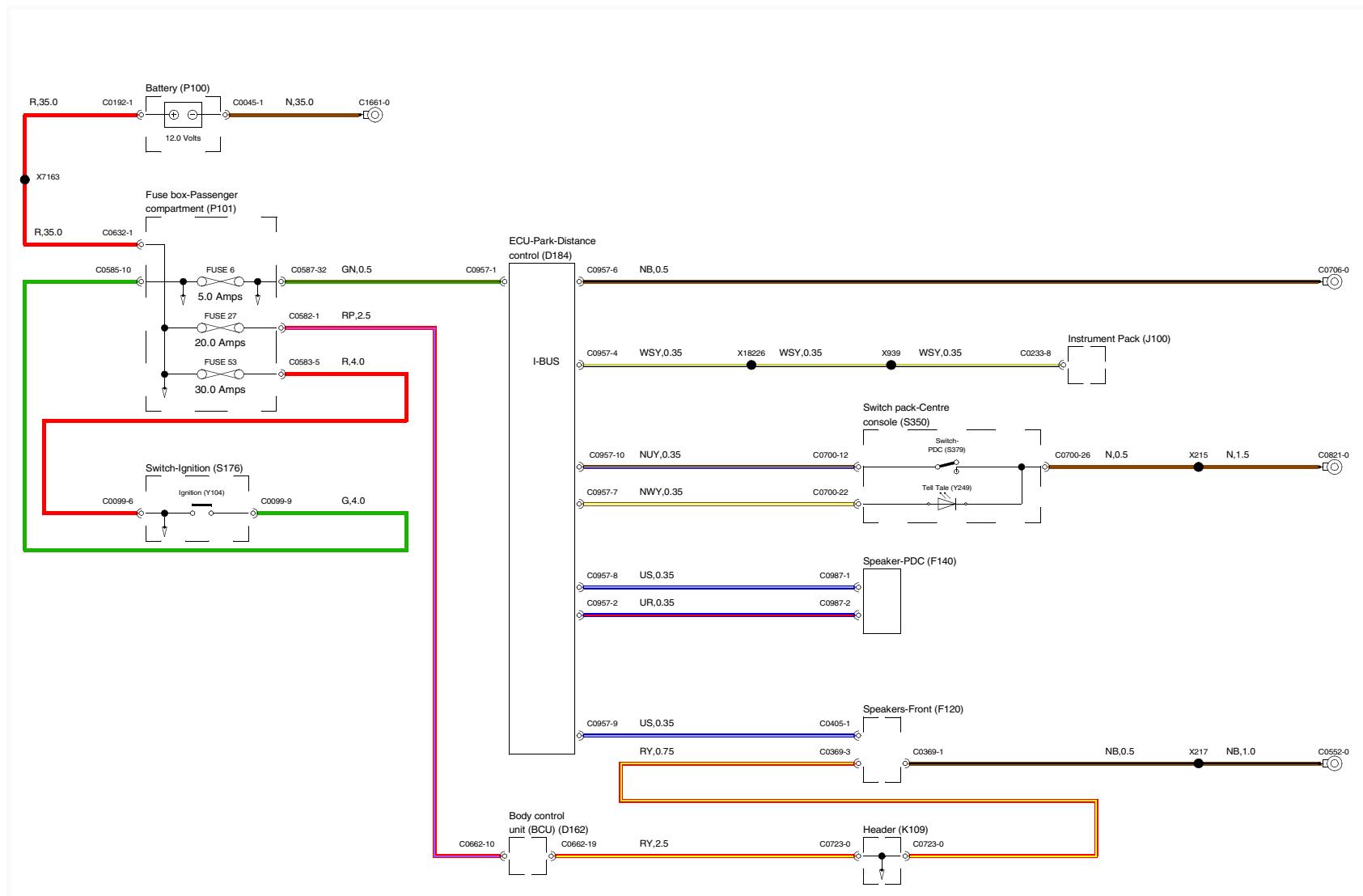


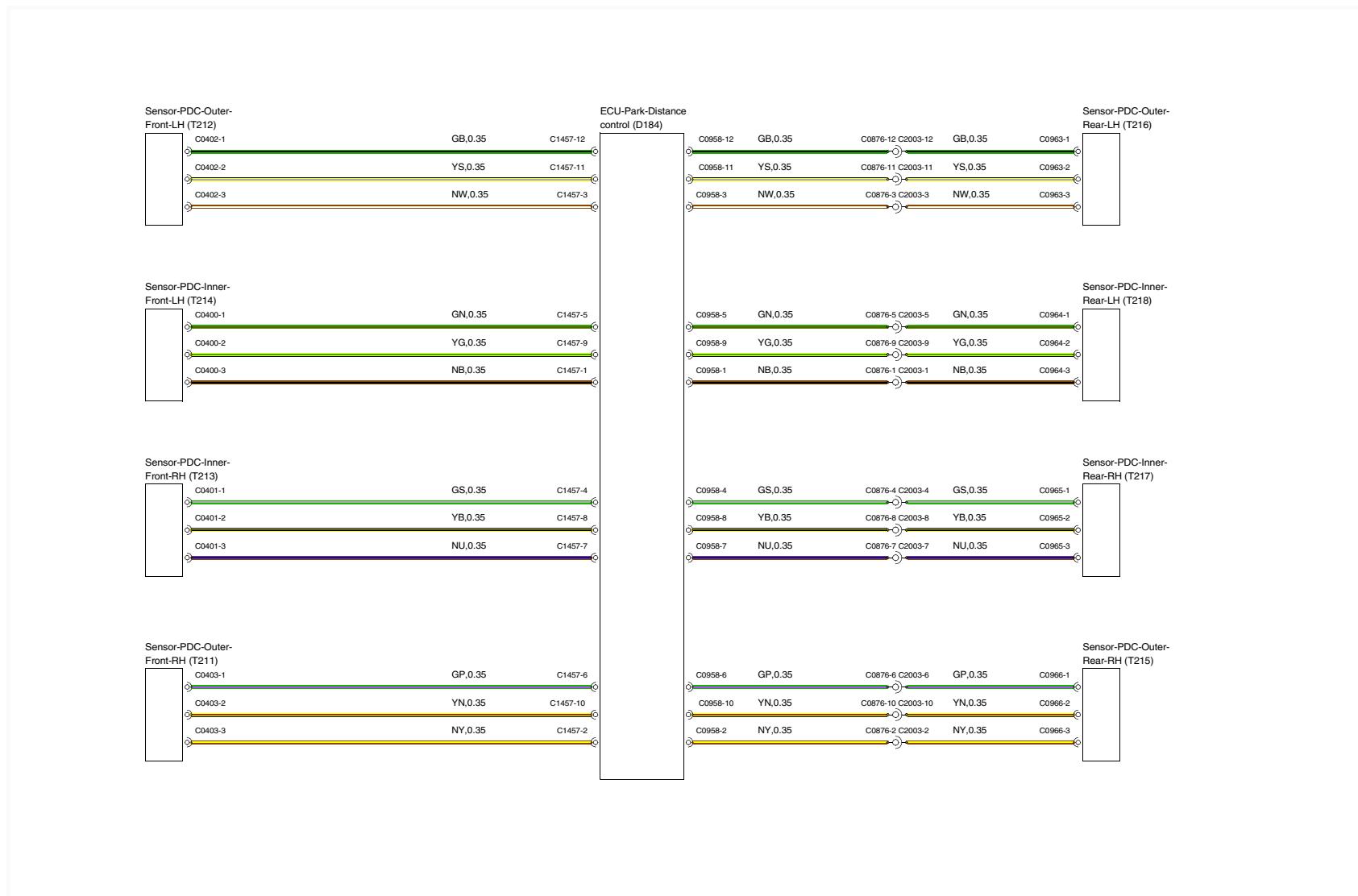


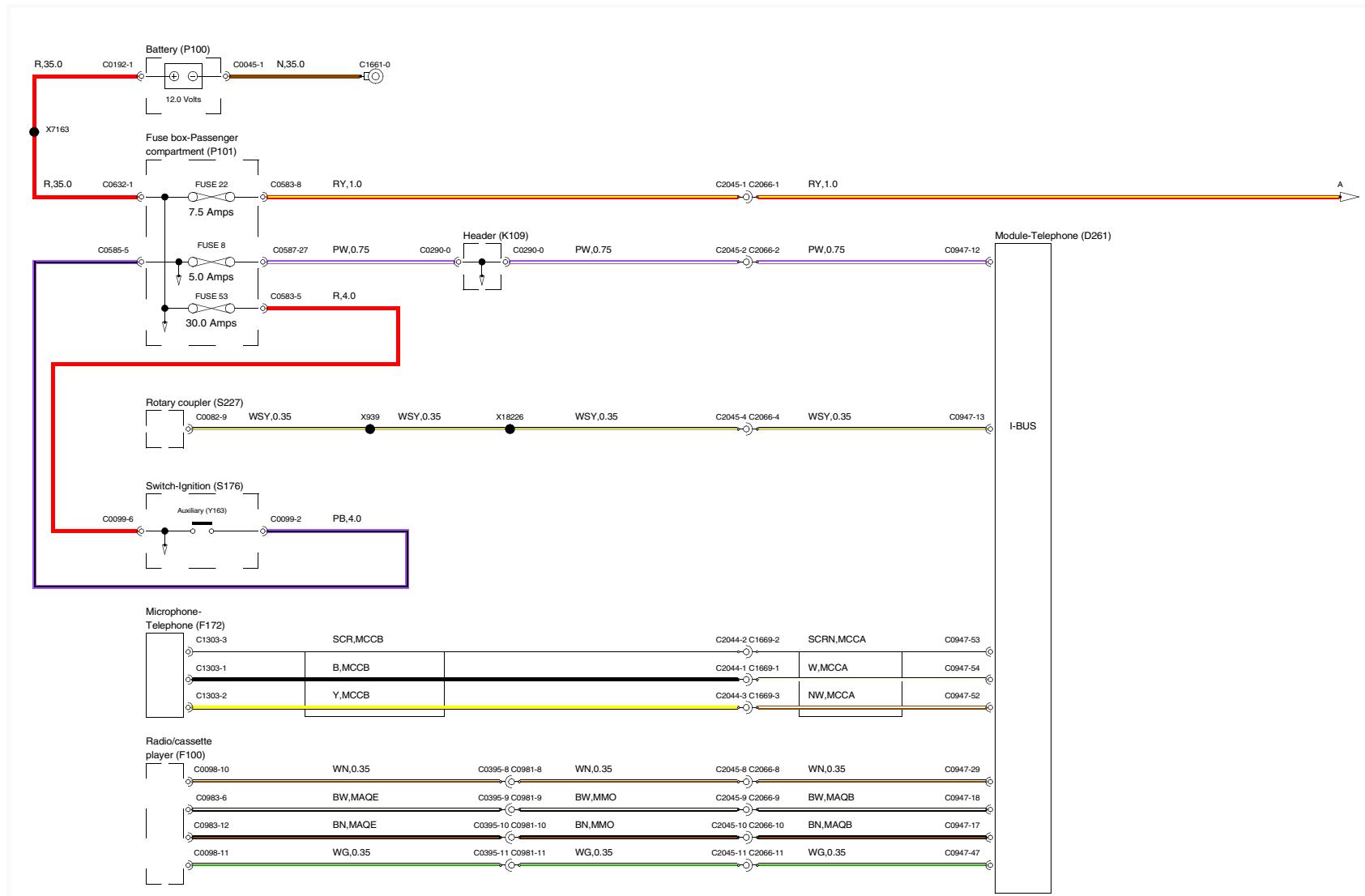


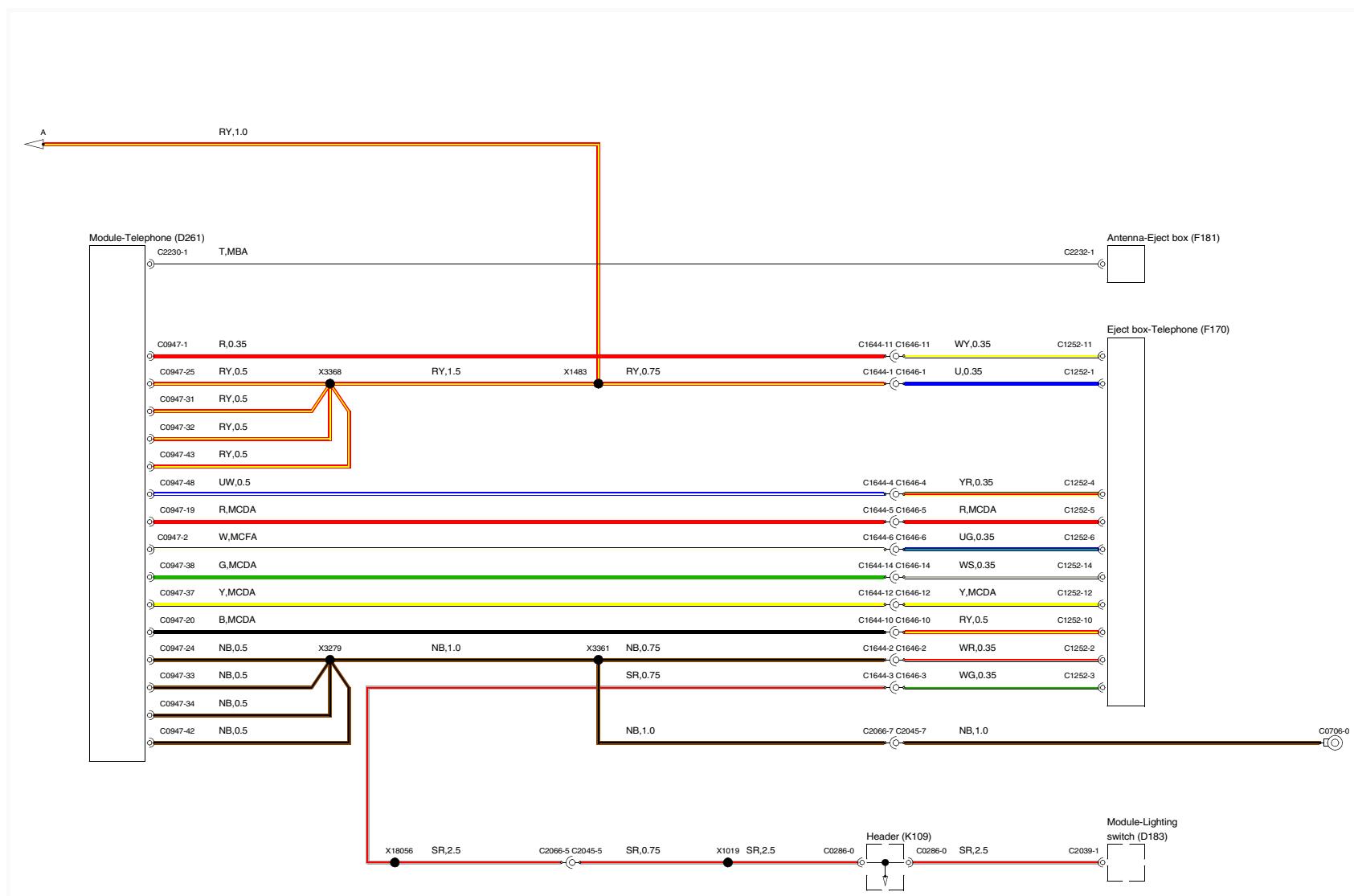
73 TYRE PRESSURE MONITORING

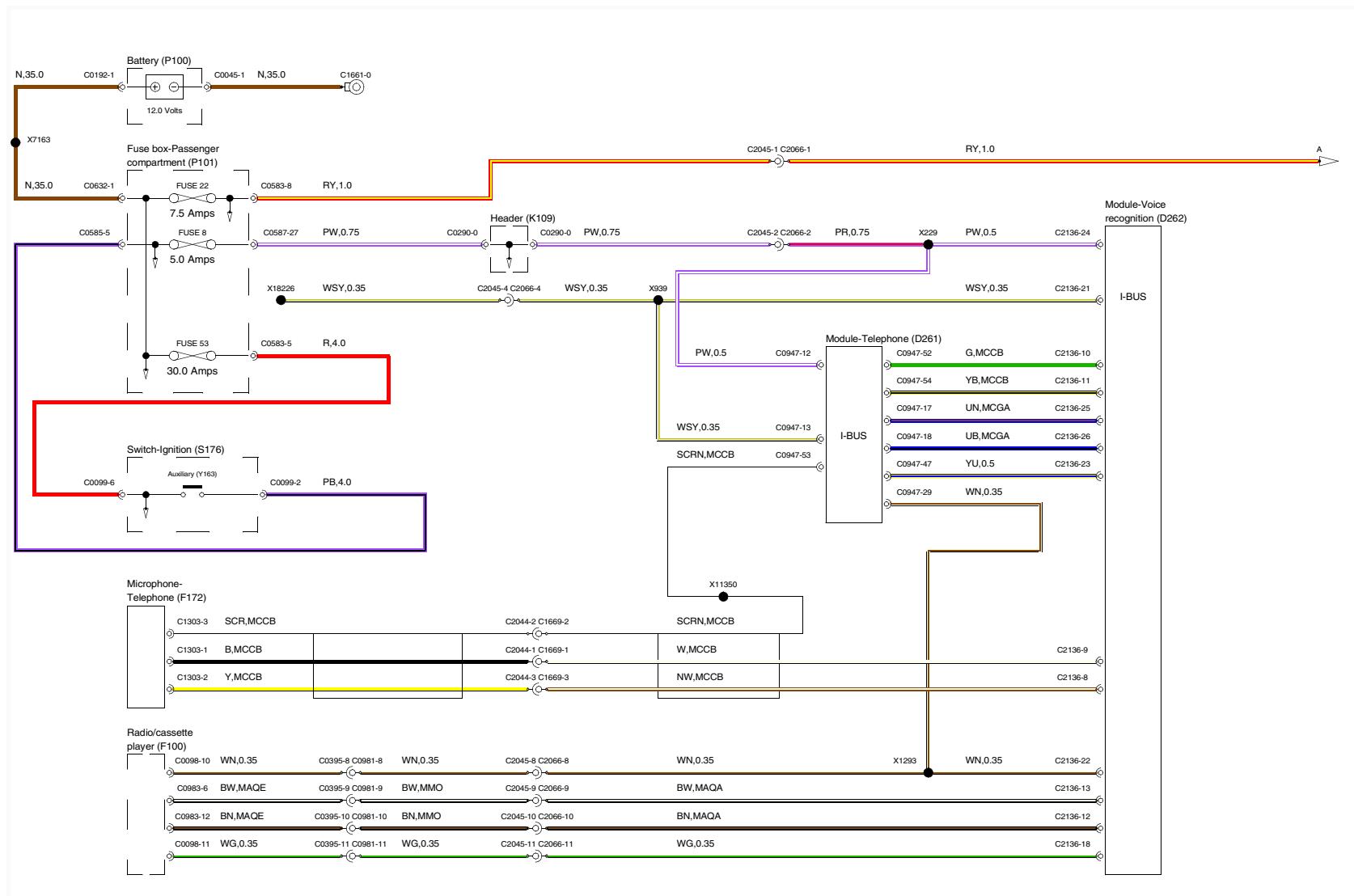


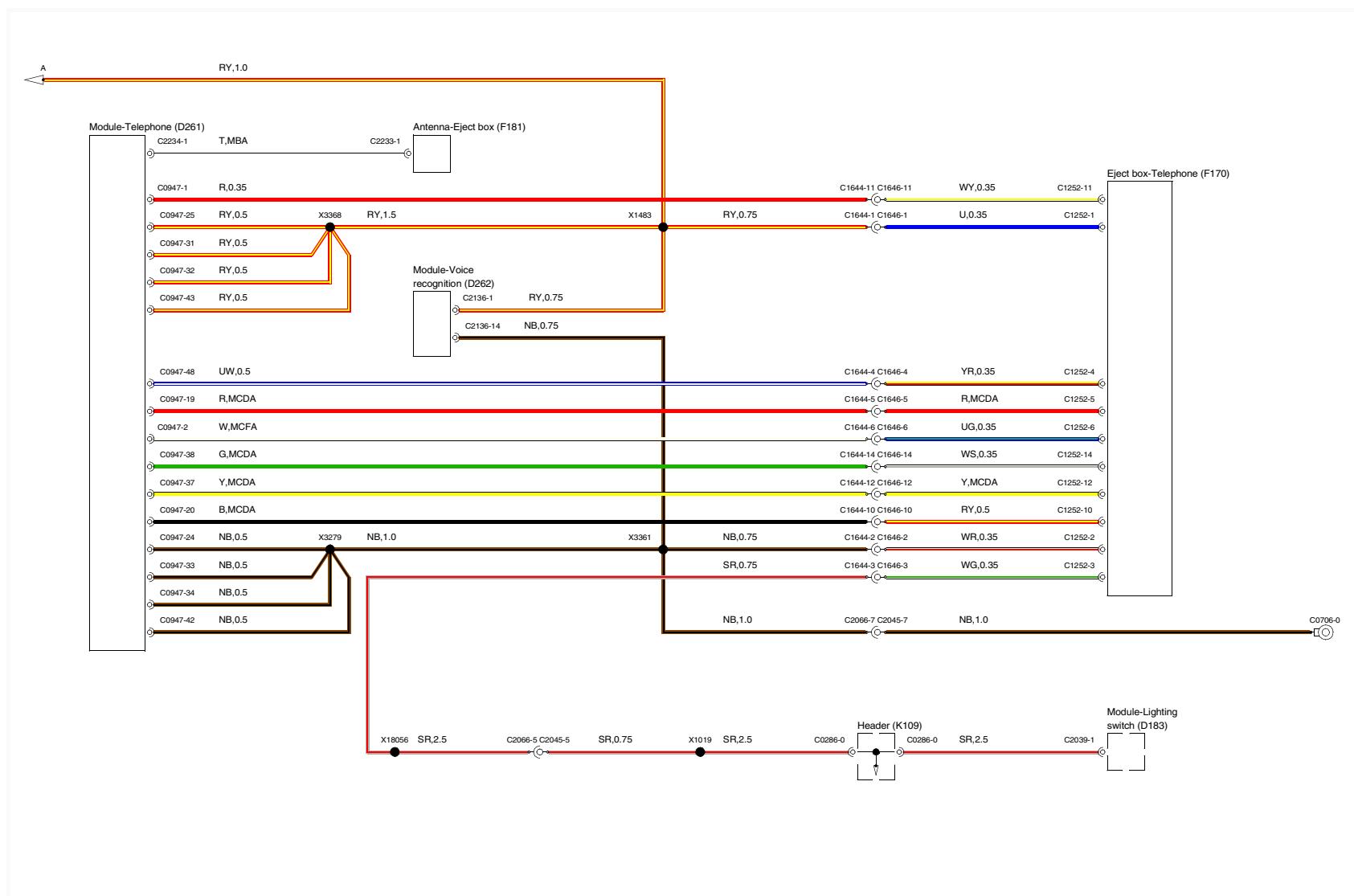












80 TRAILER SOCKET

