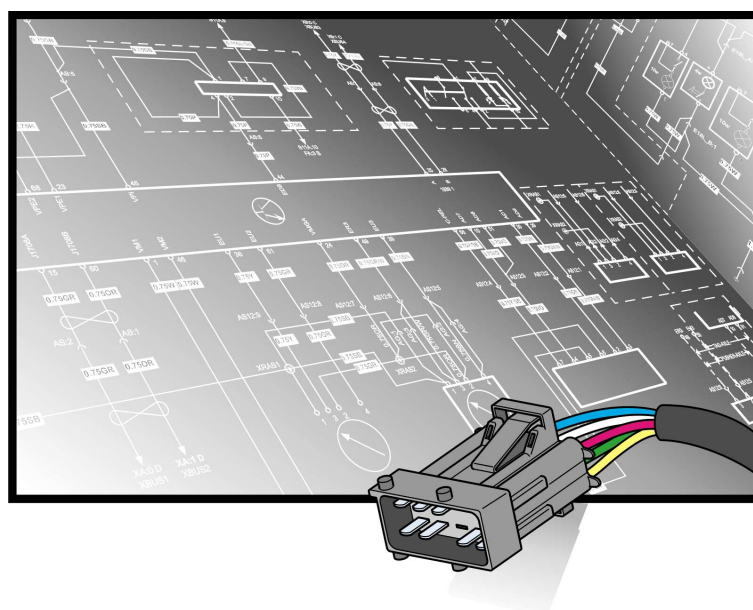


WIRING DIAGRAM

RENAULT
TRUCKS
DELIVER

C
337016/10

- English - 5/2018



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COMMUNICATION BUS ARCHITECTURE

Summary of communication bus architecture

Communication bus architecture - LIN BUS architecture

Diagram sheet: **B1D**

See page 7

Communication bus architecture - CAN BUS architecture (Euro III and Euro V)

Diagram sheet: **B1E**

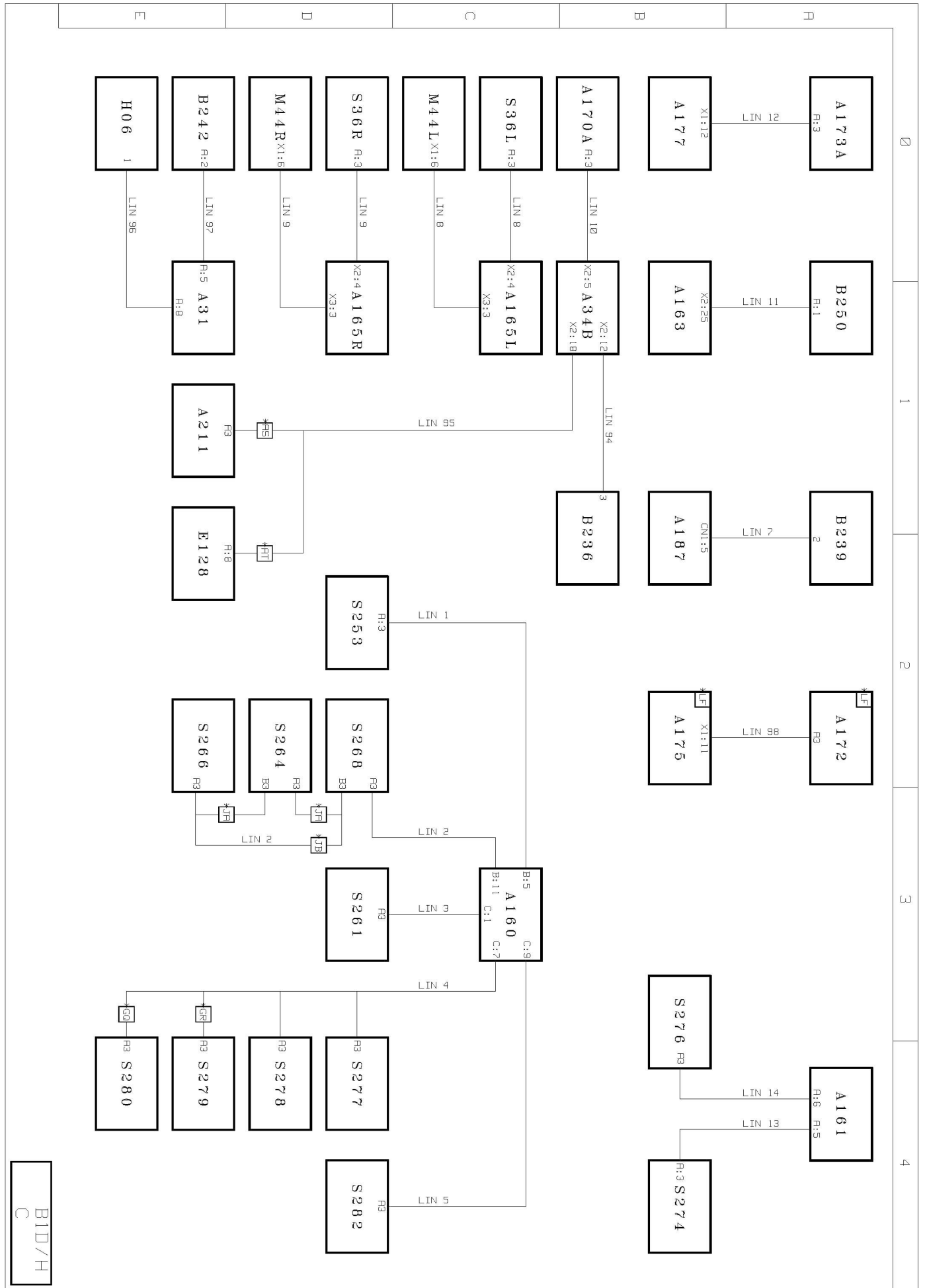
See page 11

Communication bus architecture - CAN BUS architecture (Euro VI)

Diagram sheet: **B1F**

See page 15

Communication bus architecture - LIN BUS architecture



Communication bus architecture - LIN BUS architecture

Key to devices

Code	Function description	Location
A31	Vehicle anti-theft system ECU (AECU)	B2c
A34B	Air conditioning management control unit	A2c
A160	Cab information management control unit (CIOM)	B2c
A161	Man/machine interface management control unit (HMIIOM)	B2c
A163	Central chassis area information management control unit (CCIOM)	B6d
A165L	Left-hand door information management control unit (DDM/PDM)	C3c
A165R	Right-hand door information management control unit (DDM/PDM)	A3c
A170A	Cab air conditioning control panel	B2b
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	B2c
A173A	Parking brake electrical control	B2b
A175	Additional telematics management control unit (TESP)	B2c
A177	Air production management control unit (APM)	C5d/B6d
A187	Main vehicle management control unit (VMCU)	B2b
A211	Air/air independent heater	C3c
B236	Mist on windscreen sensor	B1b
B239	Rain and light detection sensor assembly	B1b
B242	Ultrasound decoder for anti-intrusion protection (UIP)	B4a
B250	24 V DC battery charge status sensor	C5d
E128	Air/water independent heater	A3c
H06	Horn - alarm siren	A1c
M44L	Left-hand front door window lift motor with anti-pinch system	C3c
M44R	Right-hand front door window lift motor with anti-pinch system	A3c
S36L	Control for left-hand front window lift motor	C3c
S36R	Control for right-hand front window lift motor	A3c
S253	Onboard equipment auxiliaries management remote control (LECM)	B4b
S261	Repositionable control unit (group 5)	C2a
S264	Repositionable control unit (group 1)	B2c
S266	Repositionable control unit (group 2)	B2c
S268	Repositionable control unit (group 3)	B2c
S274	Steering column-mounted controls	C2b
S276	Steering wheel-mounted controls	C2b
S277	External lighting control unit	C2b
S278	Cruise control control assembly	B2c
S279	Differential lock selector control unit	B2c
S280	Cab lighting control	B2c
S282	Air suspension controls assembly	C3c

- AS** : with air/air independent heating
- AT** : with air/water independent heating
- GQ** : with differential lock variation control
- GR** : with passenger compartment lighting dimmer control
- JA** : with repositionable control unit (group 1)
- JB** : without repositionable control unit (group 1)
- LF** : with audio system module



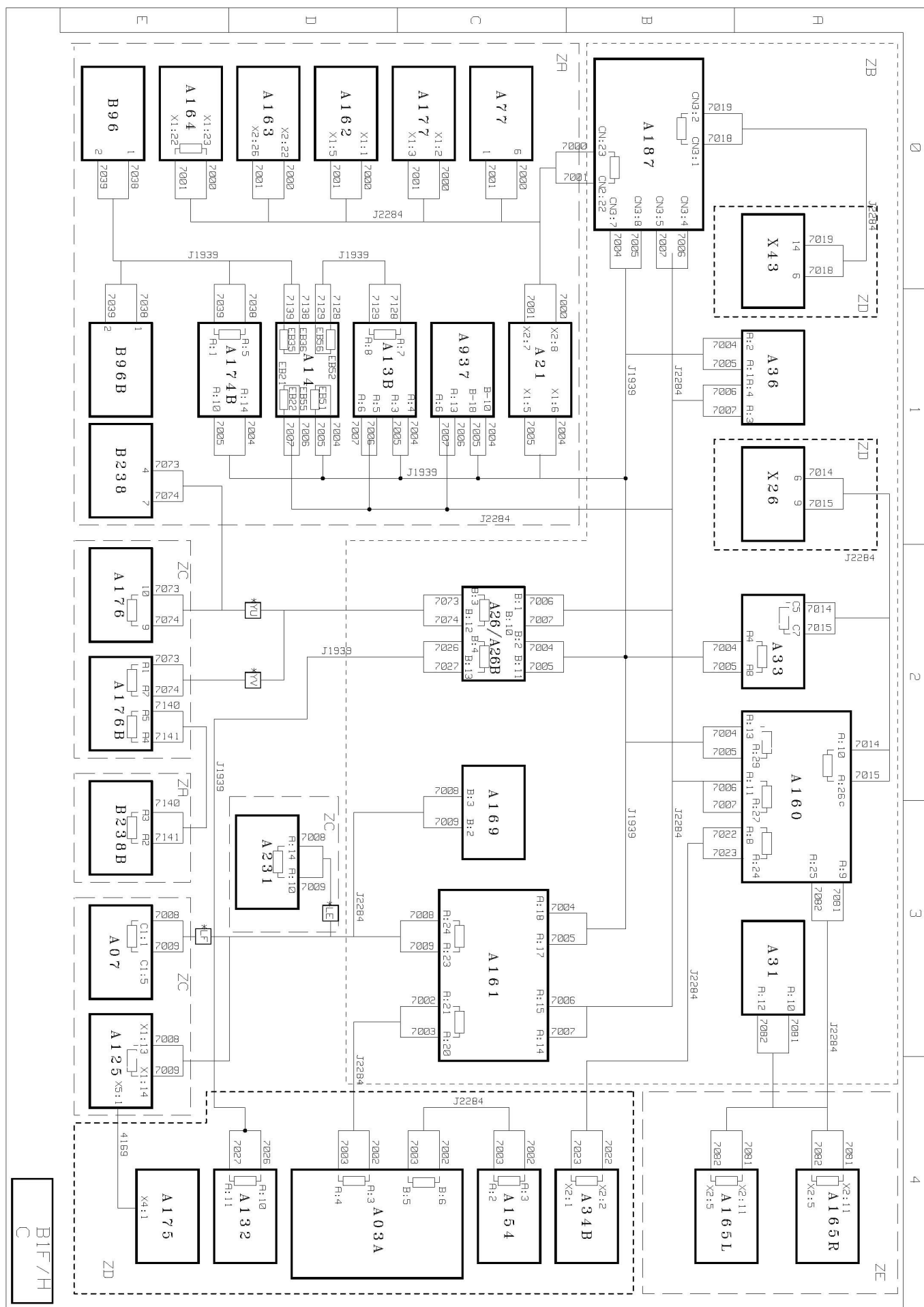
Communication bus architecture - CAN BUS architecture (Euro III and Euro V)

Key to devices

Code	Function description	Location
A03A	Main information display	C2b
A07	Radio set	B2b/C2a
A13A	Automated manual transmission management control unit	B4d
A14	Engine electronic control unit (EECU)	B3d
A21	Electronic braking system control unit (EBS)	B5d
A26	Driving assist management control unit (DACU)	B2c
A26B	Driving assist management control unit (DACU)	B2c
A31	Vehicle anti-theft system ECU (AECU)	B2c
A33	Tachograph	C2a
A34B	Air conditioning management control unit	A2c
A36	Body builder pre-equipment management control unit (BBM)	B2c
A77	Tyre pressure monitoring control unit	B6d
A125	On-board management system interface control unit	B1a
A132	Vehicle immobiliser alcohol control unit	B2c
A154	Video display	B2b
A160	Cab information management control unit (CIOM)	B2c
A161	Man/machine interface management control unit (HMIIOM)	B2c
A162	Front chassis area information management control unit (FCIOM)	A2d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
A165L	Left-hand door information management control unit (DDM/PDM)	C3c
A165R	Right-hand door information management control unit (DDM/PDM)	A3c
A169	Video control unit (VS)	B2c
A174	Exhaust gas after-treatment control module (ACM)	B6d
A175	Additional telematics management control unit (TESP)	B2c
A176	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
A177	Air production management control unit (APM)	C5d/B6d
A187	Main vehicle management control unit (VMCU)	B2b
A231	Service and entertainment module (SEM)	B2b
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	A5d
B238	Object detection and distance radar sensor (FLS)	B1d
B238B	Object detection and distance radar sensor (FLS)	B1d
X26	Onboard management pre-arrangement (ECU)	B2c
X43	Vehicle diagnostic socket (OBD)	C2c

JN	: vehicles compliant with Euro V standards
LE	: with entertainment service module
LF	: with audio system module
YU	: for vehicles manufactured before 2018/06/04
YV	: for vehicles manufactured after 2018/06/03
ZA	: chassis zone
ZB	: ECU bracket on dashboard
ZC	: console area
ZD	: dashboard zone
ZE	: doors zone

Communication bus architecture - CAN BUS architecture (Euro VI)



T3139266

Communication bus architecture - CAN BUS architecture (Euro VI)

Key to devices

Code	Function description	Location
A03A	Main information display	C2b
A07	Radio set	B2b/C2a
A13B	Automated manual transmission management control unit	B4d
A14	Engine electronic control unit (EECU)	B3d
A21	Electronic braking system control unit (EBS)	B5d
A26	Driving assist management control unit (DACU)	B2c
A26B	Driving assist management control unit (DACU)	B2c
A31	Vehicle anti-theft system ECU (AECU)	B2c
A33	Tachograph	C2a
A34B	Air conditioning management control unit	A2c
A36	Body builder pre-equipment management control unit (BBM)	B2c
A77	Tyre pressure monitoring control unit	B6d
A125	On-board management system interface control unit	B1a
A132	Vehicle immobiliser alcolock control unit	B2c
A154	Video display	B2b
A160	Cab information management control unit (CIOM)	B2c
A161	Man/machine interface management control unit (HMIIOM)	B2c
A162	Front chassis area information management control unit (FCIOM)	A2d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
A165L	Left-hand door information management control unit (DDM/PDM)	C3c
A165R	Right-hand door information management control unit (DDM/PDM)	A3c
A169	Video control unit (VS)	B2c
A174B	Exhaust gas after-treatment control module (ACM)	B6d
A175	Additional telematics management control unit (TESP)	B2c
A176	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
A177	Air production management control unit (APM)	C5d/B6d
A187	Main vehicle management control unit (VMCU)	B2b
A231	Service and entertainment module (SEM)	B2b
A937	OptiTrack system management ECU	B6d
B96	Nitrogen oxide concentration sensor	A5d
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	A5d
B238	Object detection and distance radar sensor (FLS)	B1d
B238B	Object detection and distance radar sensor (FLS)	B1d
X26	Onboard management pre-arrangement (ECU)	B2c
X43	Vehicle diagnostic socket (OBD)	C2c

LE : with entertainment service module
LF : with audio system module
YU : for vehicles manufactured before **2018/06/04**
YV : for vehicles manufactured after **2018/06/03**
ZA : chassis zone
ZB : ECU bracket on dashboard
ZC : console area
ZD : dashboard zone
ZE : doors zone

SHARED FUNCTIONS

Definition

Note:

We refer to a wiring diagram with the main equipotentials of the system, the various communication buses and the equipment affecting the function as "Shared Functions". This set of diagrams may be considered to be the top level of the schematic diagram. The conventional diagram provides the details of its electrical operation.

Summary of shared functions

Shared function - Distribution and management of electrical power without ADR

Diagram sheet: **A1A**

See page 21

Shared function - Distribution and management of electrical power with ADR

Diagram sheet: **A1B**

See page 25

Shared function - Display

Diagram sheet: **A1C**

See page 29

Shared function - Locking/Unlocking of doors

Diagram sheet: **A1D**

See page 33

Shared function - Alarm

Diagram sheet: **A1E**

See page 37

Shared function - Interior lighting

Diagram sheet: **A1F**

See page 41

Shared function - External lighting

Diagram sheet: **A1G**

See page 45

Shared function - Immobiliser

Diagram sheet: **A1H**

See page 49

Shared function - Euro V anti-pollution

Diagram sheet: **A1I**

See page 51

Shared function - Euro VI emissions

Diagram sheet: **A1J**

See page 53

Shared function - Air production management

Diagram sheet: **A1K**

See page 55

Shared function - Air conditioning

Diagram sheet: **A1L**

See page 57

Shared function - Air suspension

Diagram sheet: **A1M**

See page 59

Shared function - Windscreen wiper and windscreen washer

Diagram sheet: **A1N**

See page 61

Shared function - Electric rear-view mirrors

Diagram sheet: **A1O**

See page 63

Shared function - Safety and driving assistance

Diagram sheet: **A1Q**

See page 65

Shared function - Braking management

Diagram sheet: **A1R**

See page 67

Shared function - Trailer specific braking management

Diagram sheet: **A1T**

See page 71

Shared function - Euro III and Euro V engine management

Diagram sheet: **A1U**

See page 73

Shared function - Transmission

Diagram sheet: **A1V**

See page 75

Shared function - Automated manual transmission management

Diagram sheet: **A1W**

See page 77

Shared function - Retarder

Diagram sheet: **A1X**

See page 79

Shared function - Tachograph

Diagram sheet: **A1Y**

See page 81

Shared function - Windows and sunroof

Diagram sheet: **A1Z**

See page 83

Shared function - Euro VI engine management

Diagram sheet: **A2A**

See page 85

Shared function - Front braking management

Diagram sheet: **A2C**

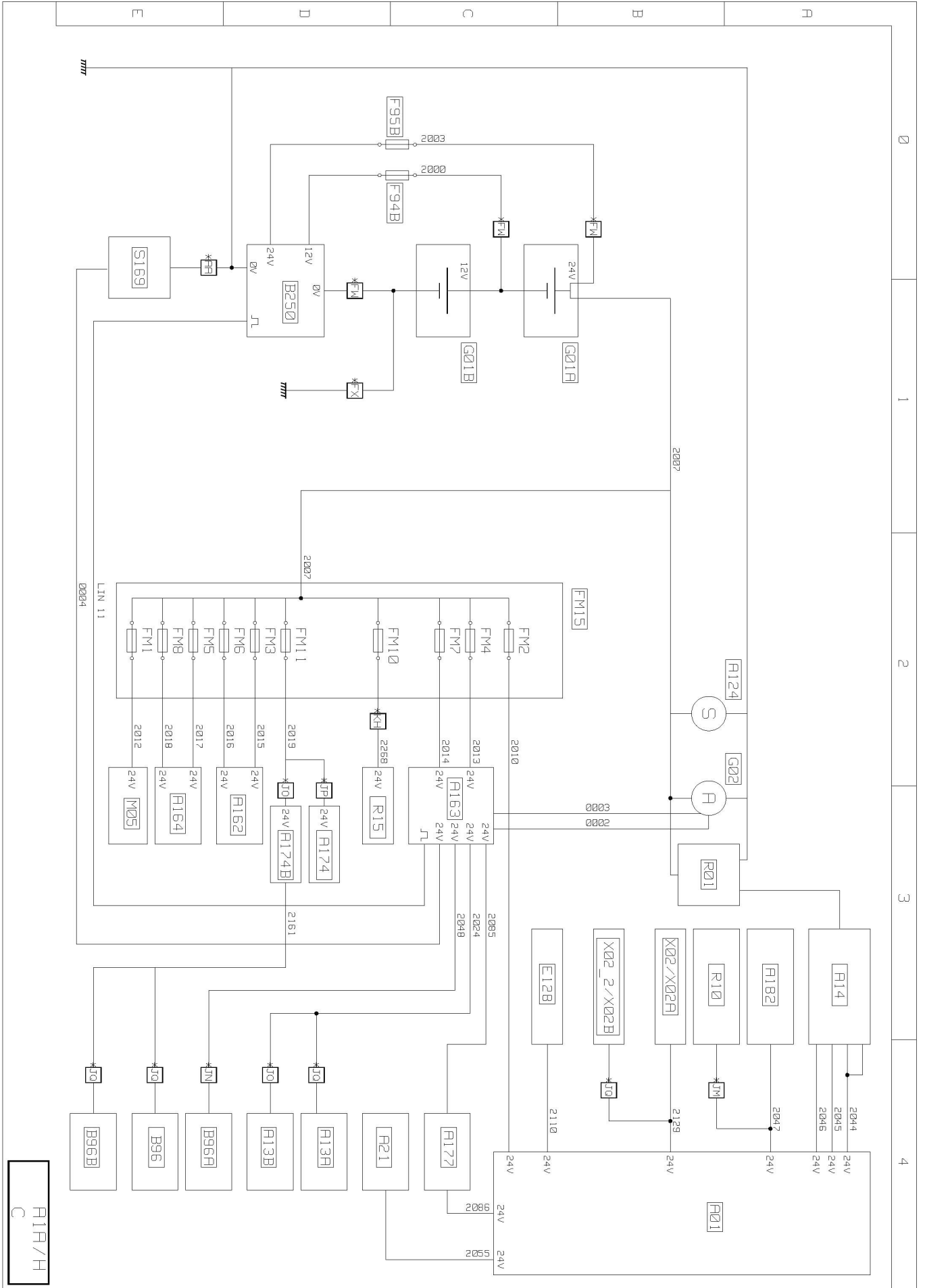
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Shared function - Rear braking management

Diagram sheet: **A2D**

See page 89

Shared function - Distribution and management of electrical energy without ADR



Shared function - Distribution and management of electrical energy without ADR

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13A	Automated manual transmission management control unit	CD5
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
A124	Starter motor assembly	BA2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A177	Air production management control unit (APM)	CKL
A182	Diesel fuel primary filter dryer and heater unit	C1K/C1L
B96	Nitrogen oxide concentration sensor	C2C
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B250	24 V DC battery charge status sensor	BA2
E128	Air/water independent heater	GBA
FM15	Power fuse box	BA2
G01A	12 V DC battery No. 1	BA2
G01B	12 V DC battery No. 2	BA2
G02	Alternator	BA2
M05	Axle lift hydraulic pump motor	CK1
R01	Intake air preheating resistor	CCT
R10	Fuel heater resistor no. 2	C1A/C1S
R15	Windscreen de-icing resistor	GCB
S169	Engine emergency stop control (on the chassis)	BAH
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF

- AA** : with electric master switch
- FW** : with **24 V DC** battery charge status sensor
- FX** : without **24 V DC** battery charge status sensor
- JM** : vehicles compliant with **Euro III** standards
- JN** : vehicles compliant with **Euro V** standards
- JO** : vehicles compliant with **Euro VI** standards
- JP** : vehicles compliant with **Euro III** and **Euro V** standards
- JQ** : vehicles compliant with **Euro V** and **Euro VI** standards
- KH** : with windscreen de-icing



Shared function - Distribution and management of electrical energy with ADR

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13A	Automated manual transmission management control unit	CD5
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
A28B	ADR vehicle master power supply management control unit	BA3
A33	Tachograph	CB1
A124	Starter motor assembly	BA2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A177	Air production management control unit (APM)	CKL
A182	Diesel fuel primary filter dryer and heater unit	C1K/C1L
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B96	Nitrogen oxide concentration sensor	C2C
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B250	24 V DC battery charge status sensor	BA2
E128	Air/water independent heater	GBA
FM15	Power fuse box	BA2
G01A	12 V DC battery No. 1	BA2
G01B	12 V DC battery No. 2	BA2
G02	Alternator	BA2
M05	Axle lift hydraulic pump motor	CK1
R01	Intake air preheating resistor	CCT
R10	Fuel heater resistor no. 2	C1A/C1S
R15	Windscreen de-icing resistor	GCB
S38	Vehicle emergency stop control	BA3

S39	Vehicle emergency stop control	BA3
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF

FW : with **24 V DC** battery charge status sensor
FX : without **24 V DC** battery charge status sensor
JM : vehicles compliant with **Euro III** standards
JN : vehicles compliant with **Euro V** standards
JO : vehicles compliant with **Euro VI** standards
JP : vehicles compliant with **Euro III** and **Euro V** standards
JQ : vehicles compliant with **Euro V** and **Euro VI** standards
KH : with windscreen de-icing



Shared function - Display

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A07	Radio set	GDH
A125	On-board management system interface control unit	CBT
A154	Video display	DAE
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A169	Video control unit (VS)	DAE
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	CBT
A175	Additional telematics management control unit (TESP)	CBT
A188	FM signal distributor	CBT
A230	Touch screen secondary information display (SID)	GDI
A231	Service and entertainment module (SEM)	GDI
B60L	LH front loudspeaker	GDH
B60LR	Rear left-hand speaker	GDH
B60R	RH front loudspeaker	GDH
B60RR	Rear right-hand speaker	GDH
B63	Microphone	GDH
B67	Vehicle rear visibility assistance camera	DAE
B245A	Vehicle rear visibility assistance camera	DAE
B252L	Tweeter speaker, left-hand side	GDH
B252R	Tweeter speaker, right-hand side	GDH
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S274	Steering column-mounted controls	GF2
S276	Steering wheel-mounted controls	GF2
U30	24/12 V - 20 A voltage converter	GEA
U34	24/12 V - 25 A voltage converter	GEA/GEB
W24	Satellite antenna and radio set	CBT
X164	USB and auxiliary audio connector	GDH

FY : with video control unit

FZ : without video control unit

GG : with **20 A** transformer under the dashboard

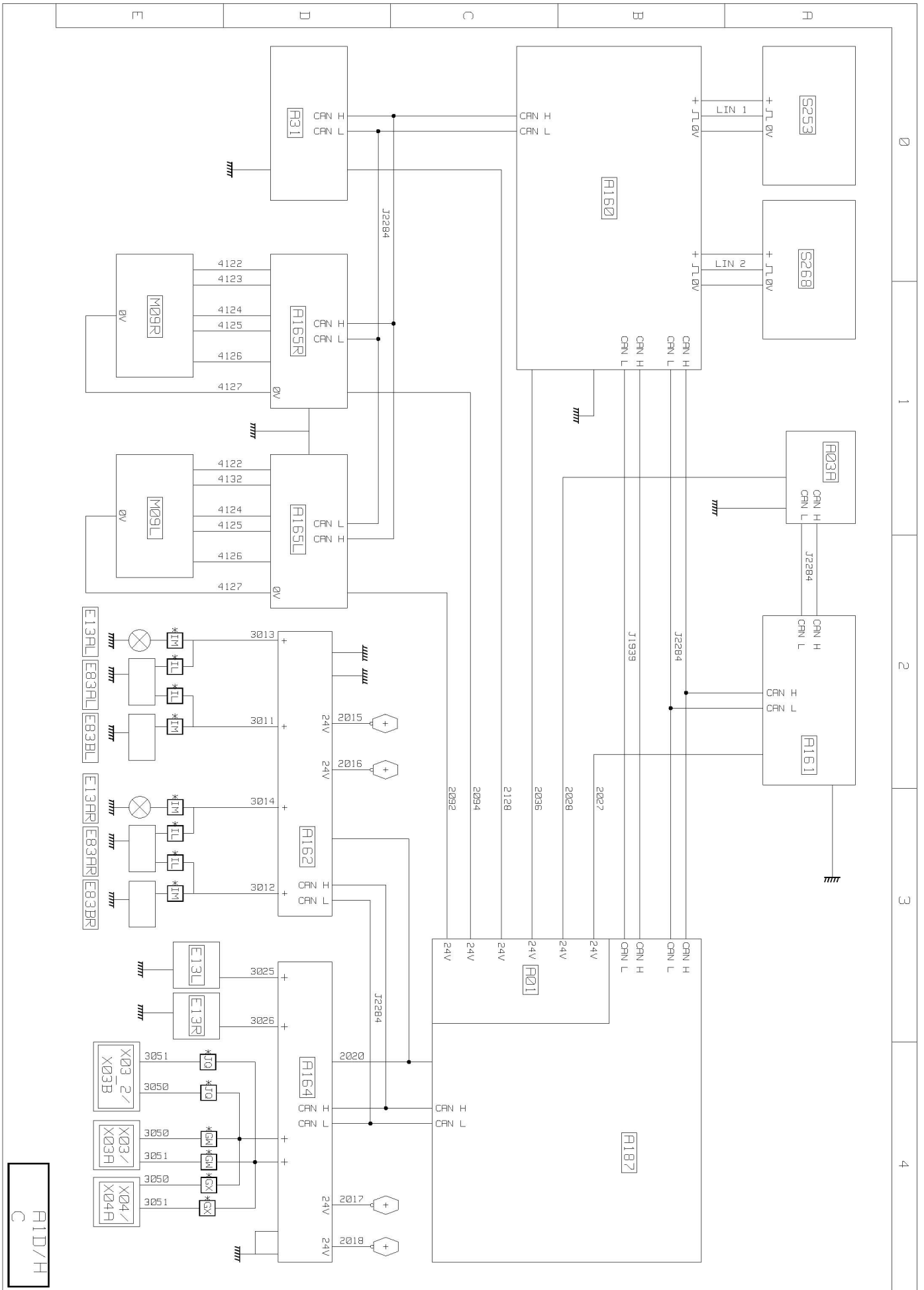
GH : with **25 A** transformer under the dashboard

GS : without supplementary telematics management control unit

GT : with supplementary telematics management control unit

- LE** : with entertainment service module
- LF** : with audio system module
- YL** : for vehicles manufactured before **2017/03/12**

Shared function - Locking/Unlocking of doors



Shared function - Locking/Unlocking of doors

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A31	Vehicle anti-theft system ECU (AECU)	DAA
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E13L	Left-hand rear direction indicator lamp	EAA
E13R	Right-hand rear direction indicator lamp	EAA
E83AL	LH light unit	EA2
E83AR	RH light unit	EA2
E83BL	Left-hand headlamp insert	EA3
E83BR	Right-hand headlamp insert	EA3
M09L	Left-hand front door locking system assembly	DA7
M09R	Right-hand front door locking system assembly	DA8
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S268	Repositionable control unit (group 3)	GF1
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF
X04	Trailer connection (7-pin type 24 N)	HBD
X04A	Trailer connection (7-pin type 24 N)	HBD

GW : with 15-pin trailer socket

GX : with 2 7-pin trailer sockets

IL : with main beam headlights

IM : with on-site headlights

JQ : vehicles compliant with **Euro V** and **Euro VI** standards



Direct after battery power supply.



Shared function - Alarm

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A31	Vehicle anti-theft system ECU (AECU)	DAA
A33	Tachograph	CB1
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B90	Alarm presence detector ultrasound transmitter	DAA
B91	Alarm presence detector ultrasound receiver	DAA
B242	Ultrasound decoder for anti-intrusion protection (UIP)	DAA
B253	Alarm presence detector ultrasound transmitter	DAA
BBEC	Central electrical distribution box for body builder pre-equipment	JAF
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E13L	Left-hand rear direction indicator lamp	EAA
E13R	Right-hand rear direction indicator lamp	EAA
E83AL	LH light unit	EA2
E83AR	RH light unit	EA2
E83BL	Left-hand headlamp insert	EA3
E83BR	Right-hand headlamp insert	EA3
E104	Light for storage compartment under bunk no. 1	GA1
H06	Horn - alarm siren	DAA
M09L	Left-hand front door locking system assembly	DA7
M09R	Right-hand front door locking system assembly	DA8
S15A	Key-controlled contacts assembly	BB1
S95A	Alarm panic button control	DAA
S261	Repositionable control unit (group 5)	GF1
V07	Vehicle alarm signalling diode	DAA
W02A	Immobiliser transponder antenna	DA6

X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF
X04	Trailer connection (7-pin type 24 N)	HBD
X04A	Trailer connection (7-pin type 24 N)	HBD

AM : with **ADR** equipment

YE-AR : without **ADR** equipment

GW : with **15**-pin trailer socket

GX : with **2 7**-pin trailer sockets

IL : with main beam headlights

IM : with on-site headlights

JQ : vehicles compliant with **Euro V** and **Euro VI** standards

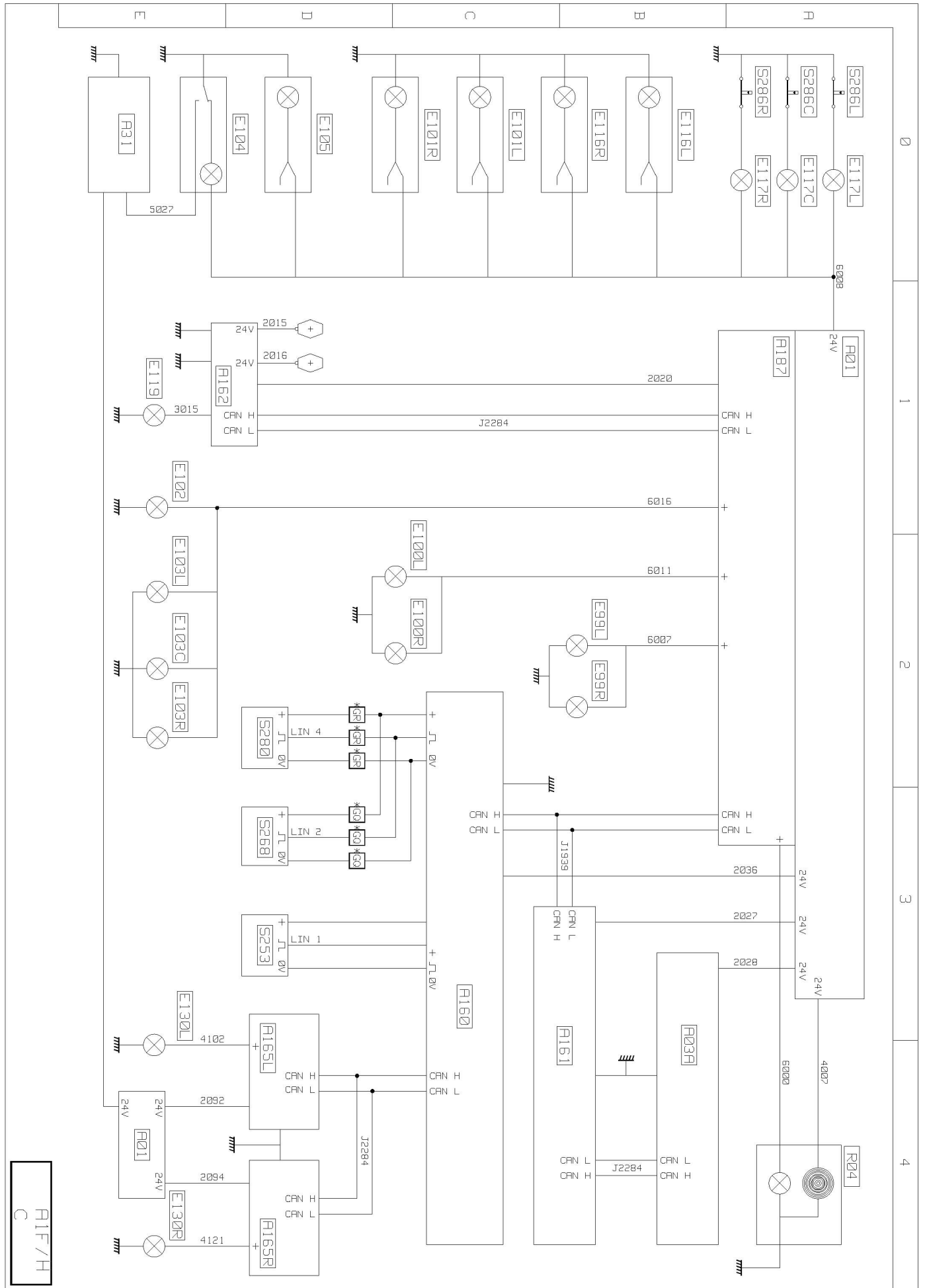
YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**



Direct after battery power supply.

Shared function - Interior lighting



Shared function - Interior lighting

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A31	Vehicle anti-theft system ECU (AECU)	DAA
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
E99L	Left-hand side bunk lighting lamp	GA1
E99R	Right-hand side bunk lighting lamp	GA1
E100L	Lighting unit, left-hand cabin light (environment)	GA1
E100R	Lighting unit, right-hand cabin light (environment)	GA1
E101L	Reading light, left-hand side	GA1
E101R	Reading light, right-hand side	GA1
E102	Instrument panel lighting (ambiance)	GA1
E103C	Centre console light (ambiance)	GA1
E103L	Left-hand console light (ambiance)	GA1
E103R	Right-hand console light (ambiance)	GA1
E104	Light for storage compartment under bunk no. 1	GA1
E105	Light for storage compartment under bunk no. 2	GA1
E116L	Directional reading light, left-hand side	GA1
E116R	Directional reading light, right-hand side	GA1
E117C	Light for storage compartment in centre console	GA1
E117L	Light for storage compartment in left-hand console	GA1
E117R	Light for storage compartment in right-hand console	GA1
E119	Driver's side stepwell lighting lamp	GA1
E130L	Left-hand door edge illumination light	DA7
E130R	Right-hand door edge illumination light	DA8
R04	Cigar lighter	GEQ
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S268	Repositionable control unit (group 3)	GF1
S280	Cab lighting control	GF1
S286C	Centre console lighting contact	GA1

S286L	Left-hand console lighting contact	GA1
S286R	Right-hand console lighting contact	GA1

GQ : with differential lock variation control

GR : with passenger compartment lighting dimmer control

	Direct after battery power supply.
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Shared function - External lighting

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A31	Vehicle anti-theft system ECU (AECU)	DAA
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/ HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
E11LC	Side parking lamp - left-hand centre	EBH
E11LF	Side parking lamp - left-hand front	EBH
E11LR	Side parking lamp - left-hand rear	EBH
E11LR2	Side parking lamp - rear left-hand on trailer	EBH
E11LW	Side parking lamp - left-hand rear wheel	EBH
E11RC	Side parking lamp - right-hand centre	EBH
E11RF	Side parking lamp - right-hand front	EBH
E11RR	Side parking lamp - right-hand rear	EBH
E11RR2	Side parking lamp - rear right-hand on trailer	EBH
E11RW	Side parking lamp - rear right-hand wheel	EBH
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E27L	Left-hand tail lights unit	EAA
E27R	Right-hand tail lights unit	EAA
E83AL	LH light unit	EA2
E83AR	RH light unit	EA2
E83BL	Left-hand headlamp insert	EA3
E83BR	Right-hand headlamp insert	EA3
E97L	Fog driving light, LH	EA2/EA3
E97R	Fog driving light, RH	EA2/EA3
E115L	Left-hand marker light	EBJ
E115R	Right-hand marker light	EBJ

E120C	Central identification light on the roof	EBJ
E120L	Left-hand identification light on the roof	EBJ
E120R	Right-hand identification light on the roof	EBJ
E135L	Left-hand headlamp height adjustment motor	EA3
E135R	Right-hand headlamp height adjustment motor	EA3
S105	Hazard lights control	CA3
S210	Identification lights on roof control	EBJ
S261	Repositionable control unit (group 5)	GF1
S264	Repositionable control unit (group 1)	GF1
S266	Repositionable control unit (group 2)	GF1
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
S277	External lighting control unit	GF1
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF
X04	Trailer connection (7-pin type 24 N)	HBD
X04A	Trailer connection (7-pin type 24 N)	HBD
X05	Trailer connection (7-pin type 24 S)	HBD
X05A	Trailer connection (7-pin type 24 S)	HBD

- GW** : with **15**-pin trailer socket
- GX** : with **2 7**-pin trailer sockets
- IL** : with main beam headlights
- IM** : with on-site headlights
- JQ** : vehicles compliant with **Euro V** and **Euro VI** standards
- YO** : for vehicles manufactured before **2017/06/05**
- YP** : for vehicles manufactured after **2017/06/04**

	Direct after battery power supply.
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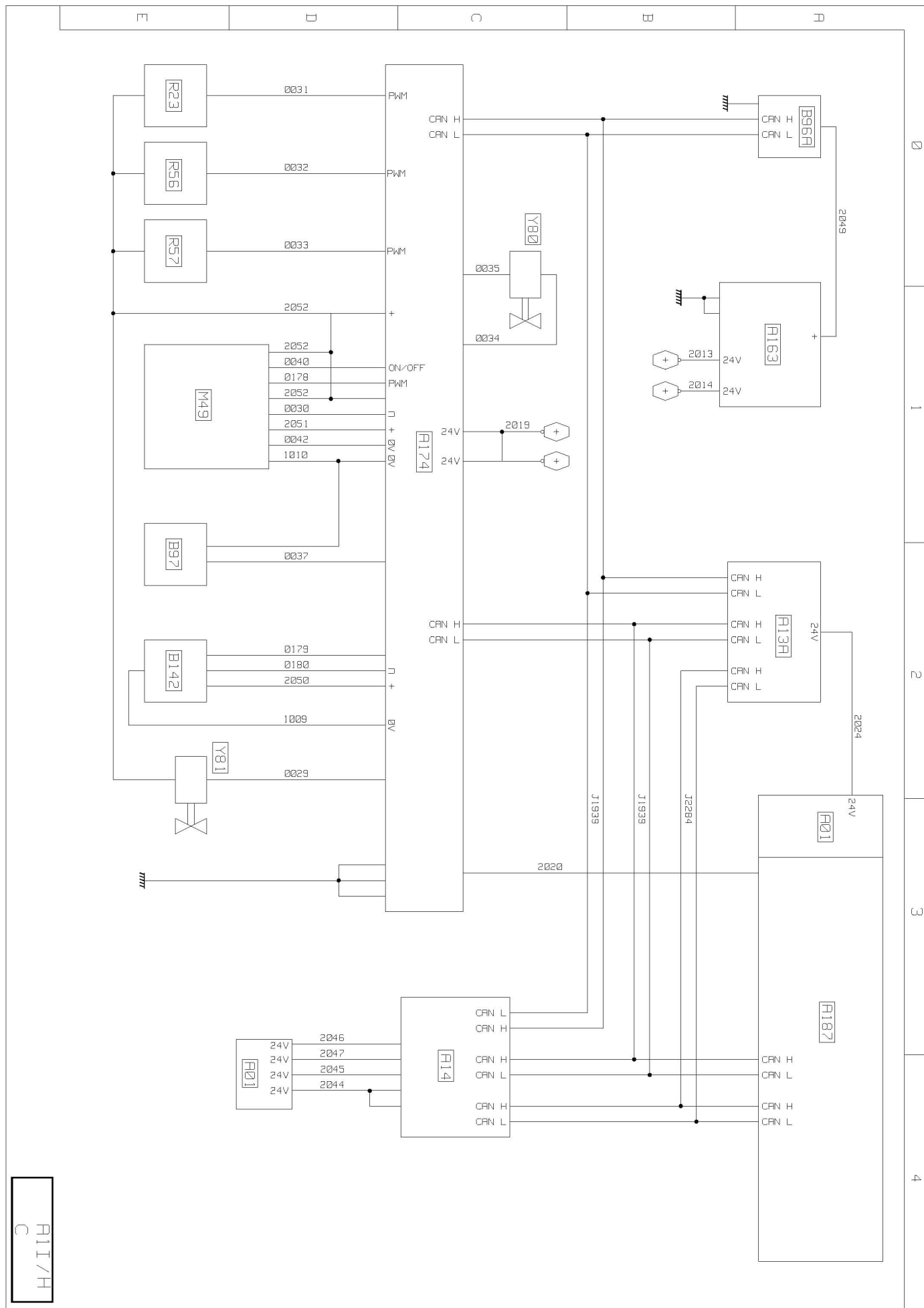
Shared function - Immobilizer

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A31	Vehicle anti-theft system ECU (AECU)	DAA
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A177	Air production management control unit (APM)	CKL
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
S15A	Key-controlled contacts assembly	BB1
W02A	Immobiliser transponder antenna	DA6

	Direct after battery power supply.
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Shared function - Euro V anti-pollution



Shared function - Euro V anti-pollution

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13A	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B142	Urea tank temperature and level sensor assembly	C2F
M49	Urea supply pump module assembly	C2F
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	C2F
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	C2F
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2F
Y80	Urea supply metering solenoid valve	C2E
Y81	Cooling solenoid valve for the urea	C2F

	Direct after battery power supply.
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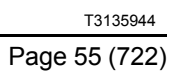


Shared function - Euro VI anti-pollution

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
A190	Air control solenoid and urea temperature sensor assembly	C2D
B96	Nitrogen oxide concentration sensor	C2C
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B142B	Urea tank temperature and level sensor assembly	C2D/C2F
B262	Urea pressure sensor	C2D
B263	Air pressure sensor inside the urea tank	C2D
M73	Urea supply metering pump	C2D
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	C2D
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2D
Y81C	Cooling solenoid valve for the urea	C2D

	Direct after battery power supply.
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Shared function - Air production management

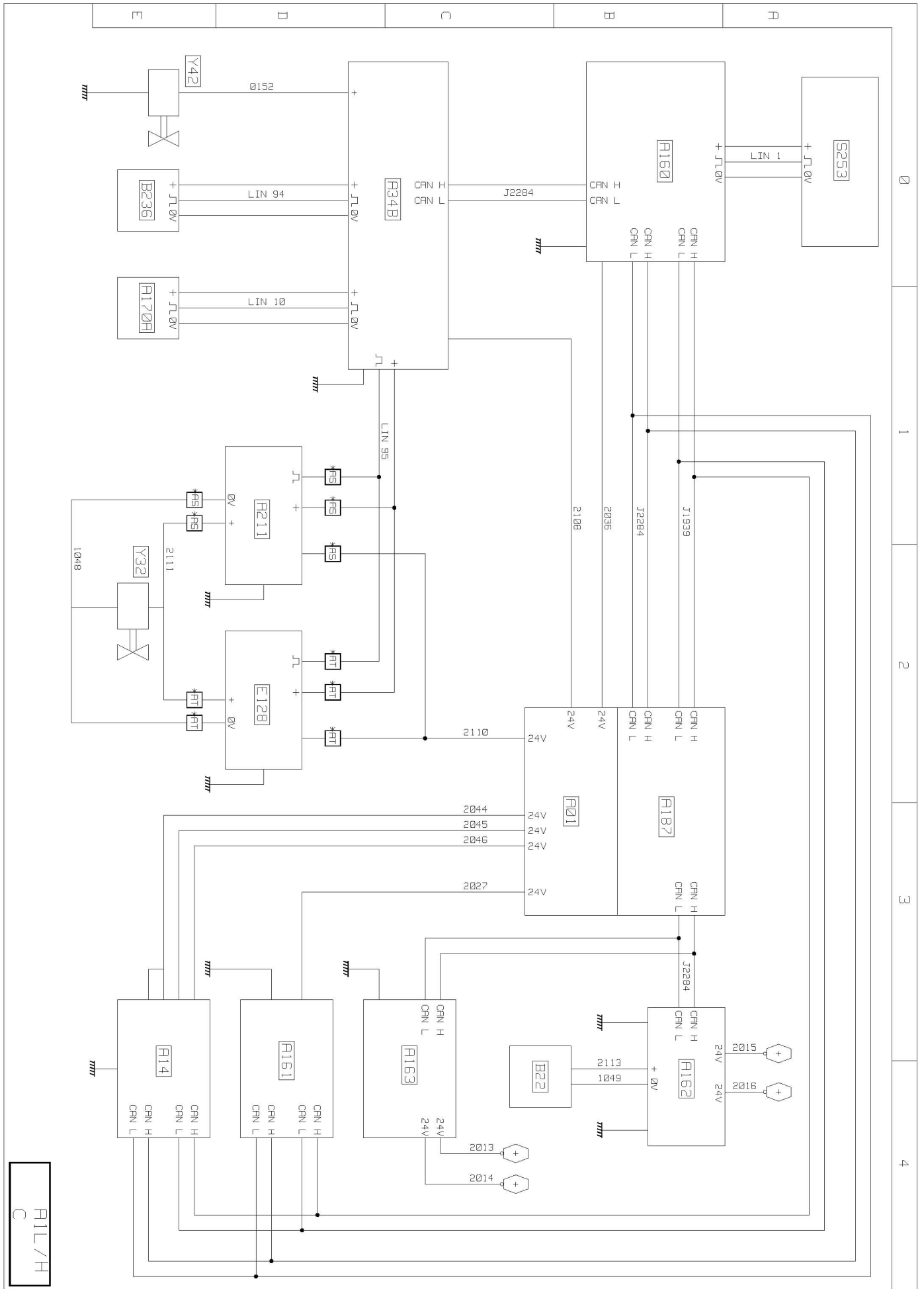
Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A173A	Parking brake electrical control	CKL
A177	Air production management control unit (APM)	CKL
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG

AM with **ADR** equipment

	Direct after battery power supply.
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Shared function - Air conditioning



Shared function - Air conditioning

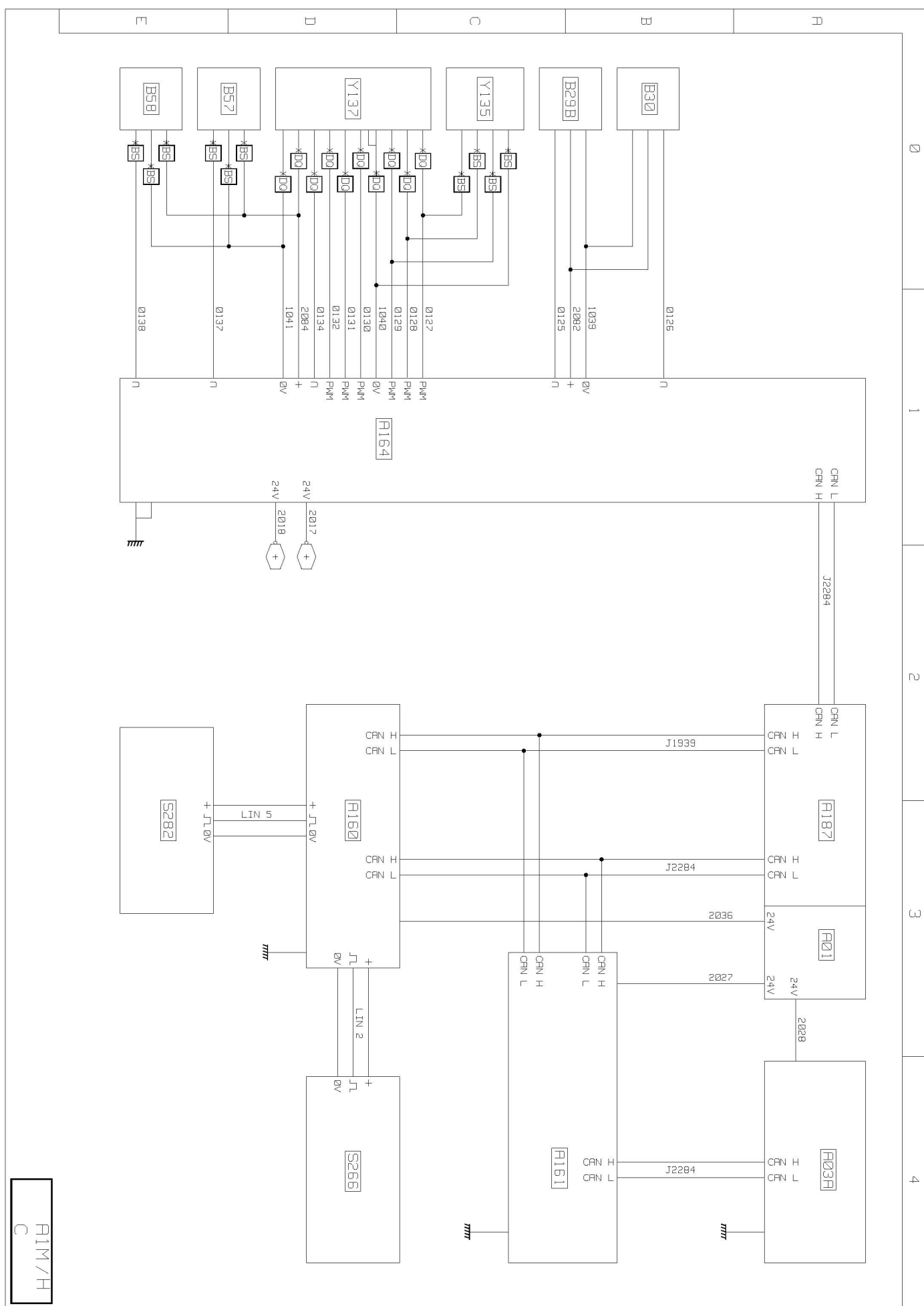
Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A34B	Air conditioning management control unit	GBP
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A170A	Cab air conditioning control panel	GBP
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
A211	Air/air independent heater	GB1
B22	External temperature sensor	GBP
B236	Mist on windscreen sensor	GBP
E128	Air/water independent heater	GBA
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
Y32	Fuel supply pump motor for independent heating	GB1/GBA
Y42	Air conditioning compressor electric clutch	GBP

AS : with air/air independent heating

AT : with air/water independent heating

	Direct after battery power supply.
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Shared function - Air suspension

Key to devices

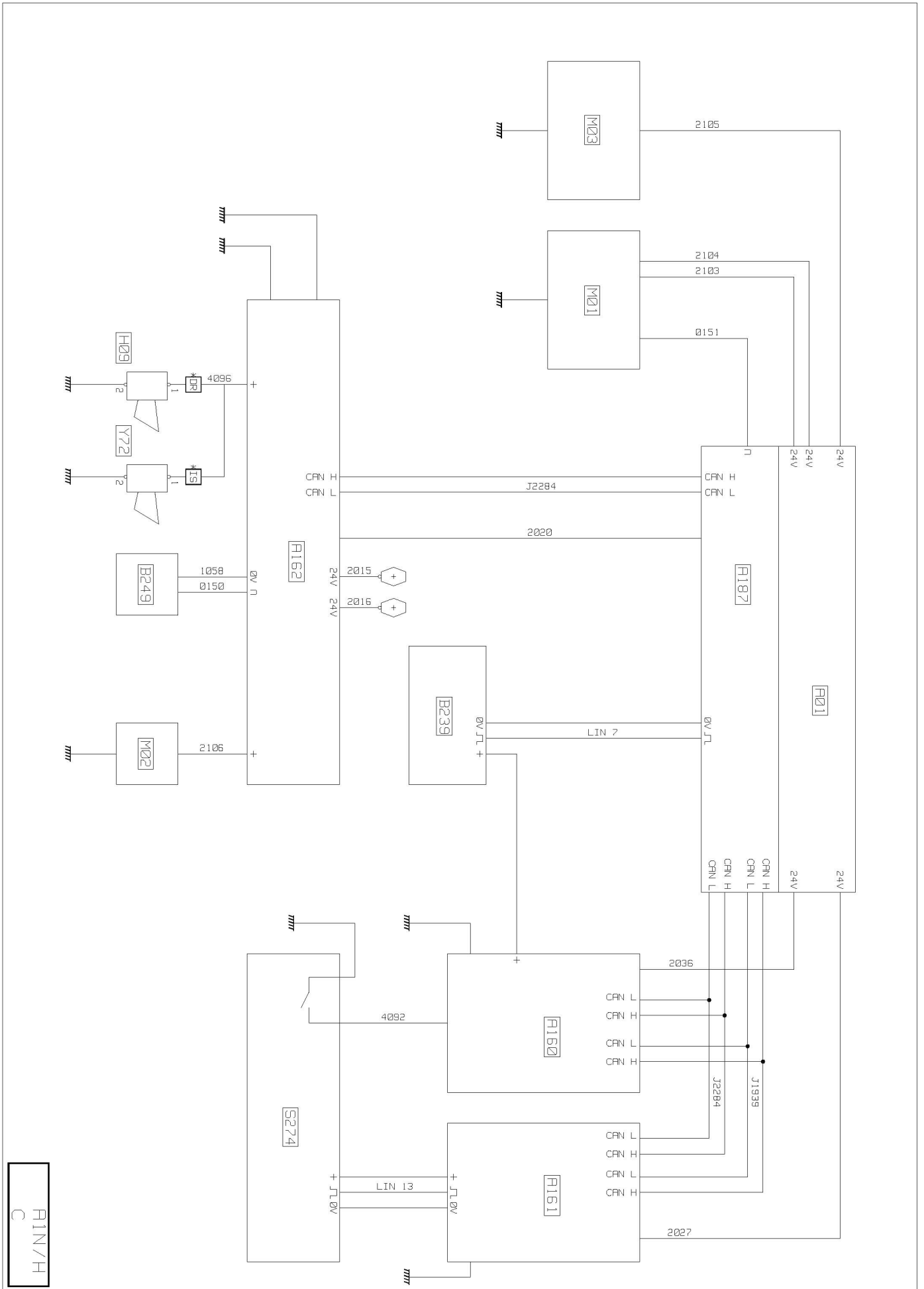
Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
B57	Sensor for air pressure in left-hand suspension air spring (rear drive axle no. 1)	CGA
B58	Sensor for air pressure in right-hand suspension air spring (rear drive axle no. 1)	CGA
S266	Repositionable control unit (group 2)	GF1
S282	Air suspension controls assembly	GF1
Y135	Rear axle suspension control solenoid valve assembly	CGA
Y137	Rear axle suspension control solenoid valve assembly	CGM

BS : 4x2 vehicles

DQ : 6x2 - 6x4 - 8x4 vehicles

	Direct after battery power supply.
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Shared function - Windscreen wiper and windscreen washer



Shared function - Windscreen wiper and windscreen washer

Key to devices

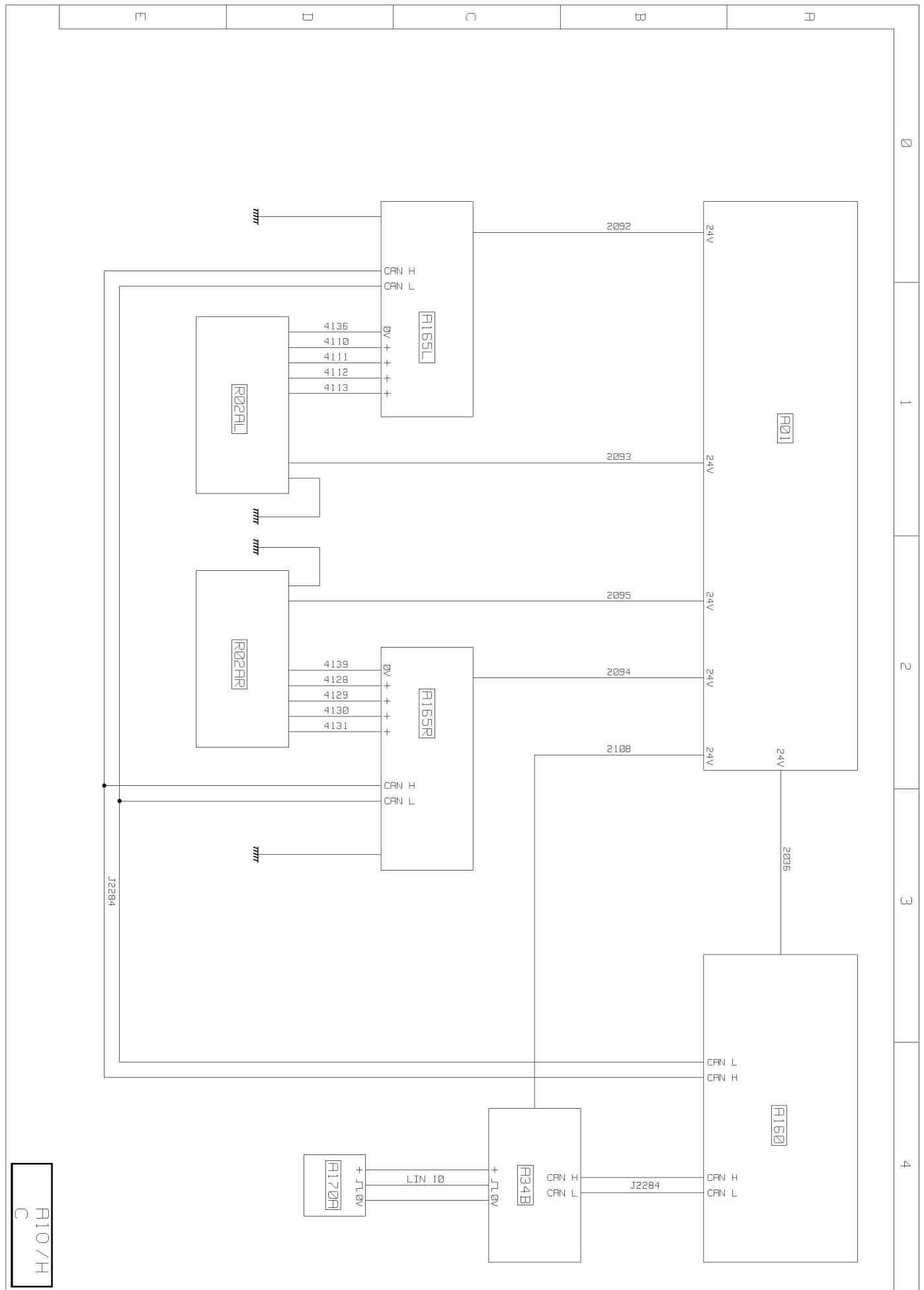
Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B239	Rain and light detection sensor assembly	FA1
B249	Screen wash level sensor	FA1
H09	Electric horn	EFG
M01	Windscreen wiper motor	FA1
M02	Windscreen washer pump motor	FA1
M03	Headlamp washer pump motor	FA1
S274	Steering column-mounted controls	GF2
Y72	Air horn	EFG

DR : with electric horn

IS : with air horn

	Direct after battery power supply.
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Shared function - Electric rear-view mirrors

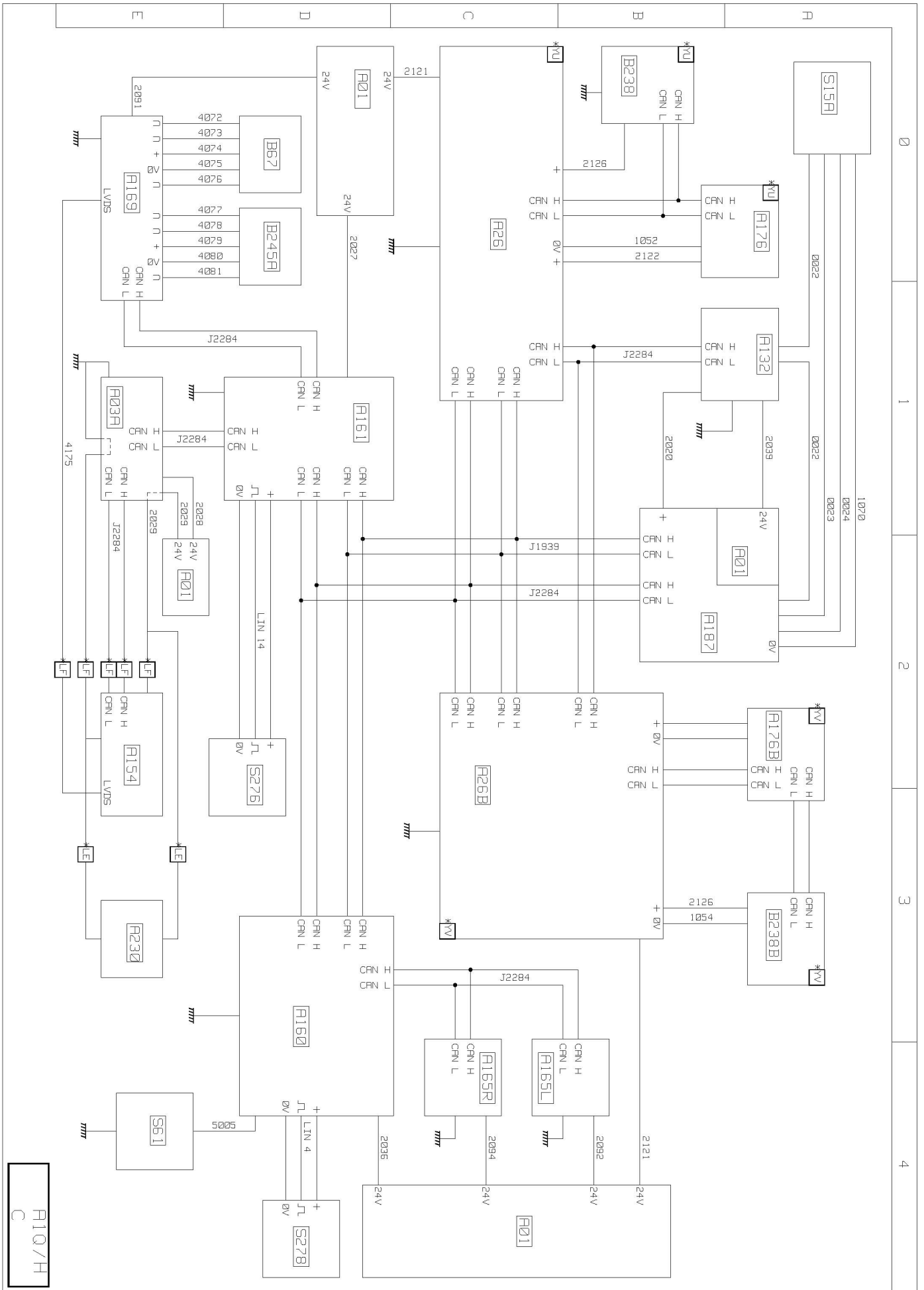


Shared function - Electric rear-view mirrors

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A34B	Air conditioning management control unit	GBP
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A170A	Cab air conditioning control panel	GBP
R02AL	Electric rear-view mirror, left-hand side	DA7
R02AR	Electric rear-view mirror, right-hand side	DA8

Shared function - Safety and driving assistance



Shared function - Safety and driving assistance

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A26	Driving assist management control unit (DACU)	FJK
A26B	Driving assist management control unit (DACU)	FJL
A132	Vehicle immobiliser alcolock control unit	DAK
A154	Video display	DAE
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A169	Video control unit (VS)	DAE
A176	Camera unit plus lane position change and object detection sensors (LPOS)	FJK
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	FJL
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B67	Vehicle rear visibility assistance camera	DAE
B238	Object detection and distance radar sensor (FLS)	FJK
B238B	Object detection and distance radar sensor (FLS)	FJL
B245A	Vehicle rear visibility assistance camera	DAE
S15A	Key-controlled contacts assembly	BB1
S61	Position sensor - driver's seat belt fastened	GC1
S276	Steering wheel-mounted controls	GF2
S278	Cruise control control assembly	GF1

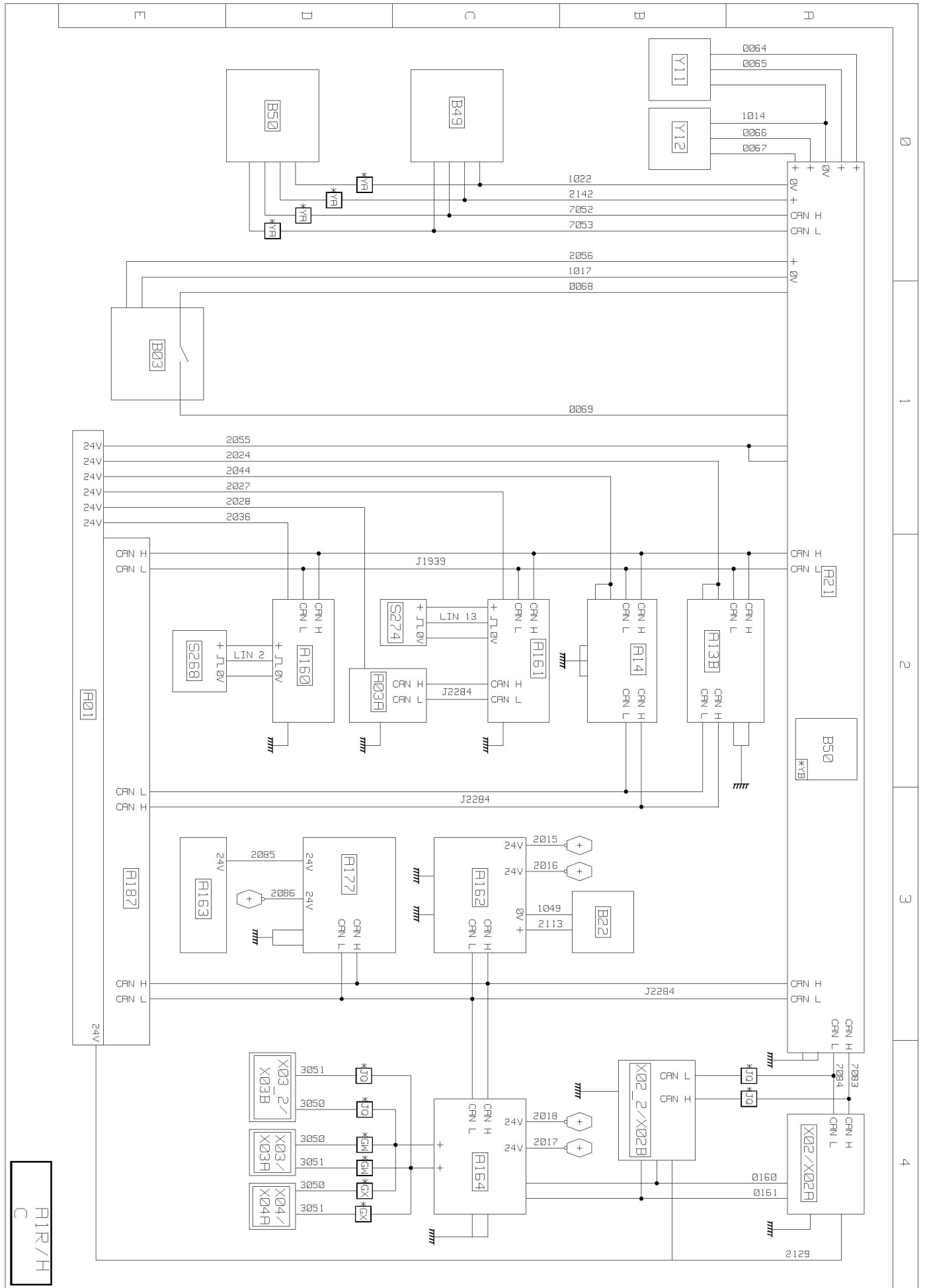
LE : with entertainment service module

LF : with audio system module

YU : for vehicles manufactured before **2018/06/04**

YV : for vehicles manufactured after **2018/06/03**

Shared function - Braking management



Shared function - Braking management

Key to devices

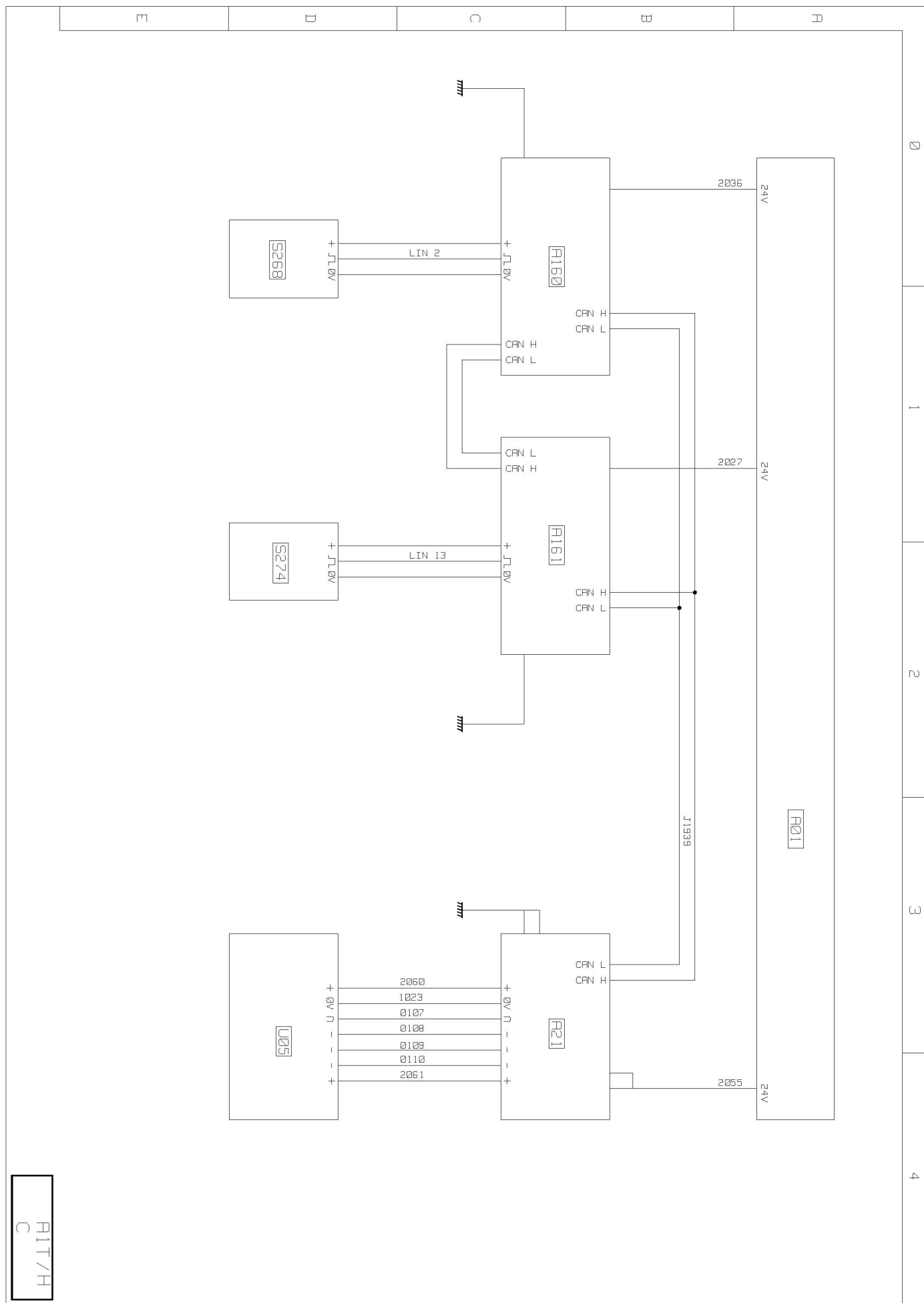
Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/ GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A177	Air production management control unit (APM)	CKL
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B03	Brake pedal position sensor	CF3
B22	External temperature sensor	GBP
B49	Steering lockover angle sensor	CF3
B50	Chassis lateral acceleration sensor	CF3
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF
X04	Trailer connection (7-pin type 24 N)	HBD
X04A	Trailer connection (7-pin type 24 N)	HBD
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3

- GW** : with **15**-pin trailer socket
- GX** : with **2 7**-pin trailer sockets
- JQ** : vehicles compliant with **Euro V** and **Euro VI** standards
- YA** : for vehicles manufactured before **30/11/2014**
- YB** : for vehicles manufactured after **01/12/2014**



Direct after battery power supply.

Shared function - Trailer specific braking management



Shared function - Trailer specific braking management

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
U05	Trailer braking assistance modulator (EBS)	CFS



Shared function - Euro III and Euro V engine management

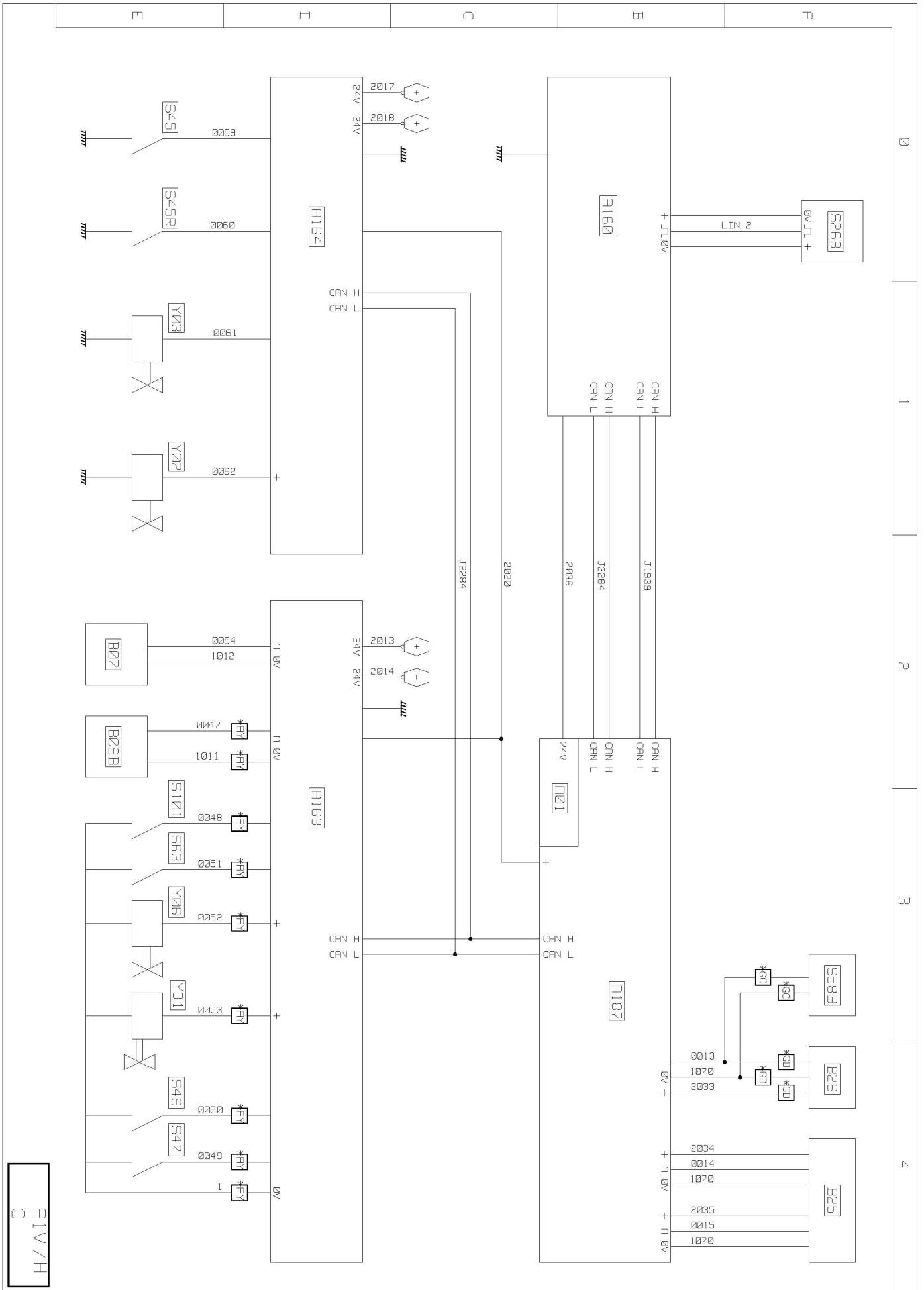
Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A34B	Air conditioning management control unit	GBP
A124	Starter motor assembly	BA2
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A182	Diesel fuel primary filter dryer and heater unit	C1K/C1L
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
G02	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
R10	Fuel heater resistor no. 2	C1A/C1S
Y35	Engine cooling fan speed regulation solenoid valve	C1B/C1R
Y37	Solenoid valve assembly for exhaust braking	C1A/C1S
Y38	Dryer bleed solenoid valve	C1A/C1S
Y39	VTC engine brake solenoid valve	C1A/C1S
Y42	Air conditioning compressor electric clutch	GBP
Y109	Water pump electromagnetic clutch	C1R/C1S
Y110	Oil cooling solenoid valve	C1A/C1S
Y111	Piston cooling solenoid valve	C1A/C1S

JN : vehicles compliant with **Euro V** standards

	Direct after battery power supply.
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Shared function - Transmission



Shared function - Transmission

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A160	Cab information management control unit (CIOM)	DA6/EF6/GF1
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/ CF3/CG1/CKD/HBD/ HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/ CK1/EAA/EBH/HBD/ HBE/HBF
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEH/GEQ/HAA/ JAD/JAF/JAG
B07	Fuel level sensor	CDU
B09B	Gearbox oil temperature sensor	CD9
B25	Accelerator pedal position sensor	CA3
B26	Clutch pedal position sensor	CA3
S45	Position sensor - rear inter-wheel differential lock engaged	CDU
S45R	Position sensor - rear inter-wheel differential lock engaged (rear drive axle no. 2)	CDU
S47	Position sensor - low speed range engaged	CD9
S49	Position sensor - reverse gear engaged	CD9
S58B	Clutch pedal position sensor	CA3
S63	Position sensor - low speed range engaged	CD9
S101	Position sensor - gear selector in neutral	CD9
S268	Repositionable control unit (group 3)	GF1
Y02	Rear inter-wheel differential lock solenoid valve	CDU
Y03	Inter-axle differential lock solenoid valve	CDU
Y06	Range change locking solenoid valve	CD9
Y31	First gear locking solenoid valve	CD9

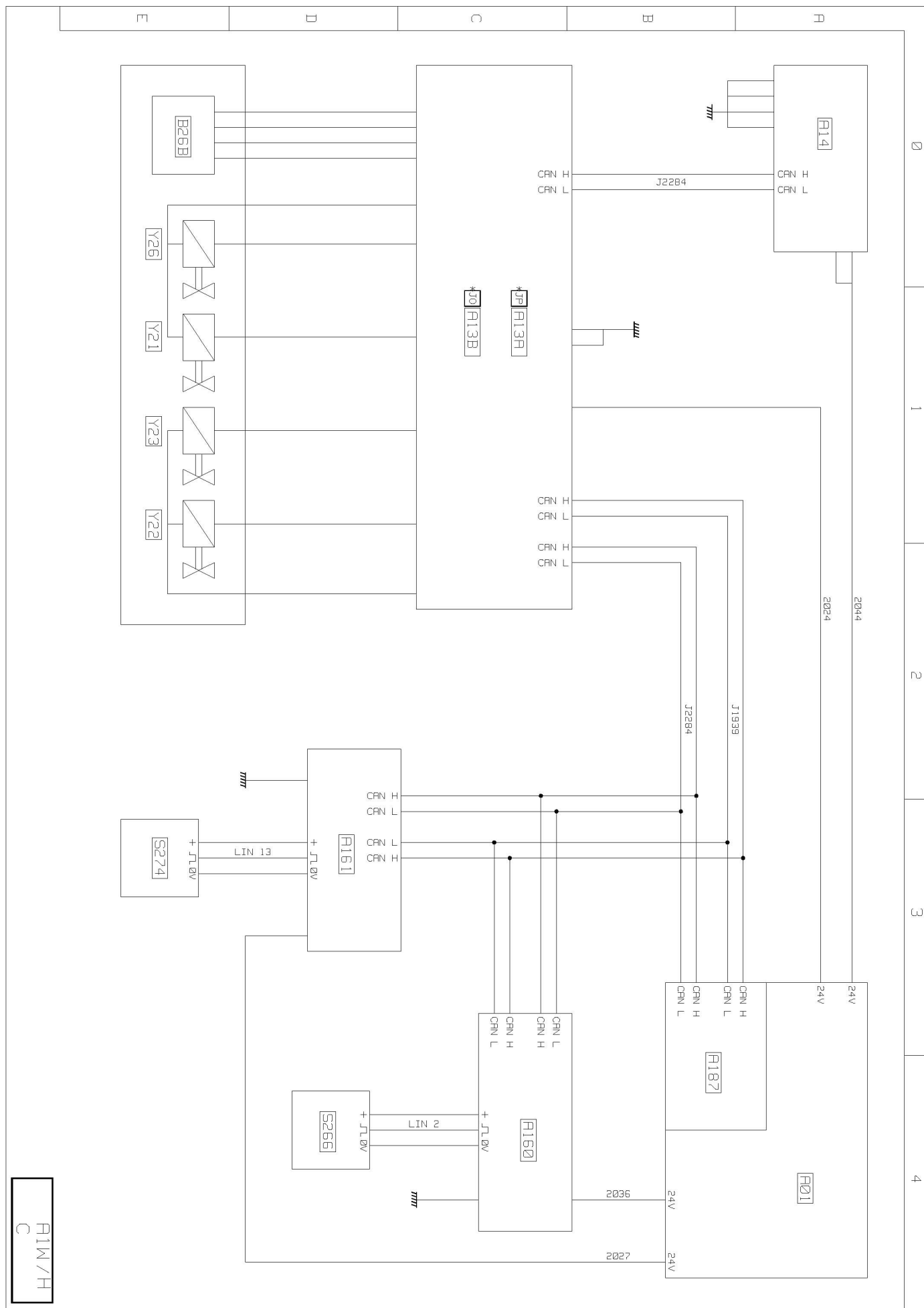
AY : with manual gearbox

GC : with clutch pedal position all-or-nothing sensor

GD : with clutch pedal position analogue sensor

	Direct after battery power supply.
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Shared function - Automated manual transmission management



Shared function - Automated manual transmission management

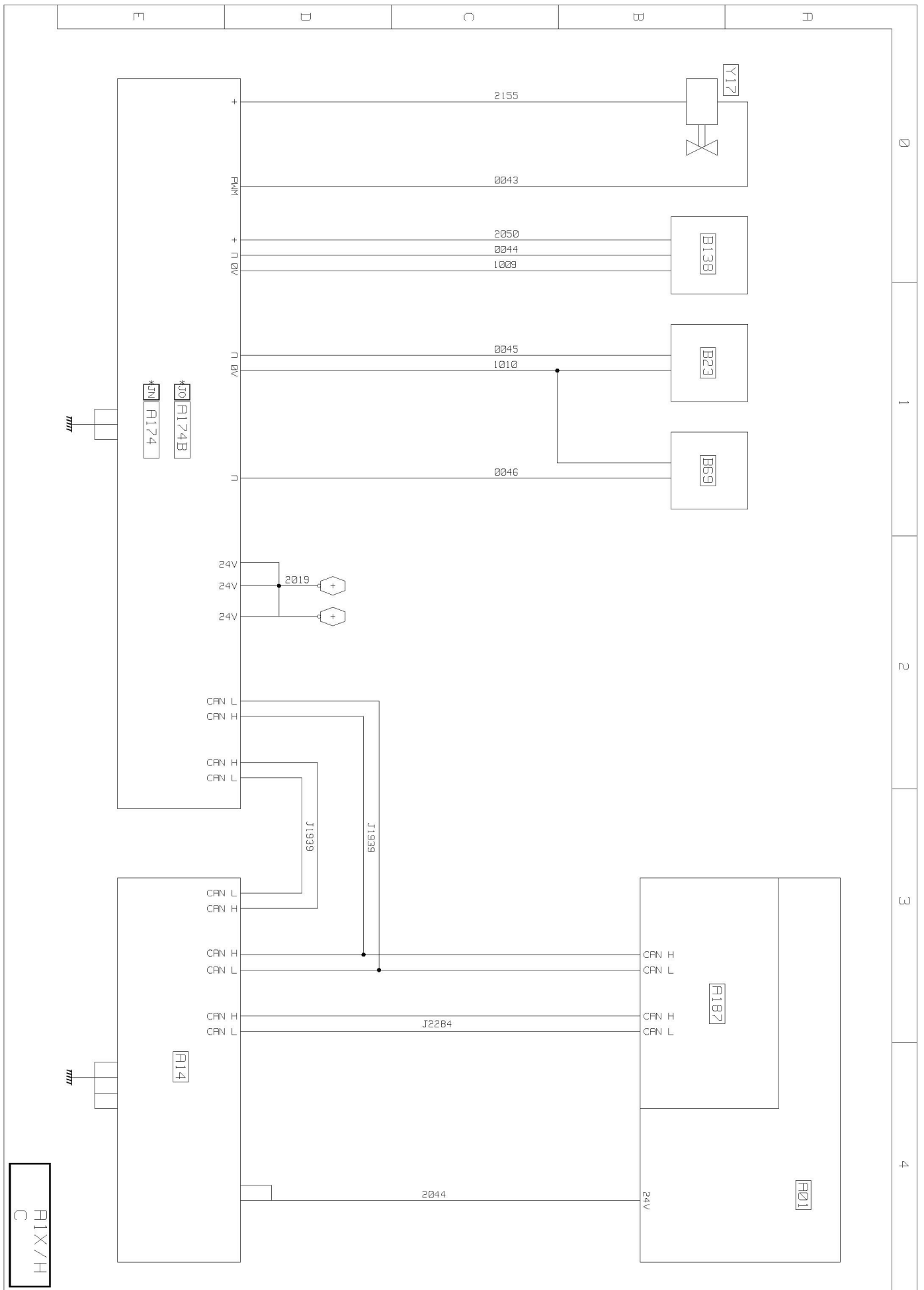
Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13A	Automated manual transmission management control unit	CD5
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B26B	Clutch position sensor (on gearbox)	CD5
S266	Repositionable control unit (group 2)	GF1
S274	Steering column-mounted controls	GF2
Y21	Low speed disengagement solenoid valve	CD5
Y22	High speed disengagement solenoid valve	CD5
Y23	High speed engagement solenoid valve	CD5
Y26	Low speed engagement solenoid valve	CD5

JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

Shared function - Retarder



Shared function - Retarder

Key to devices

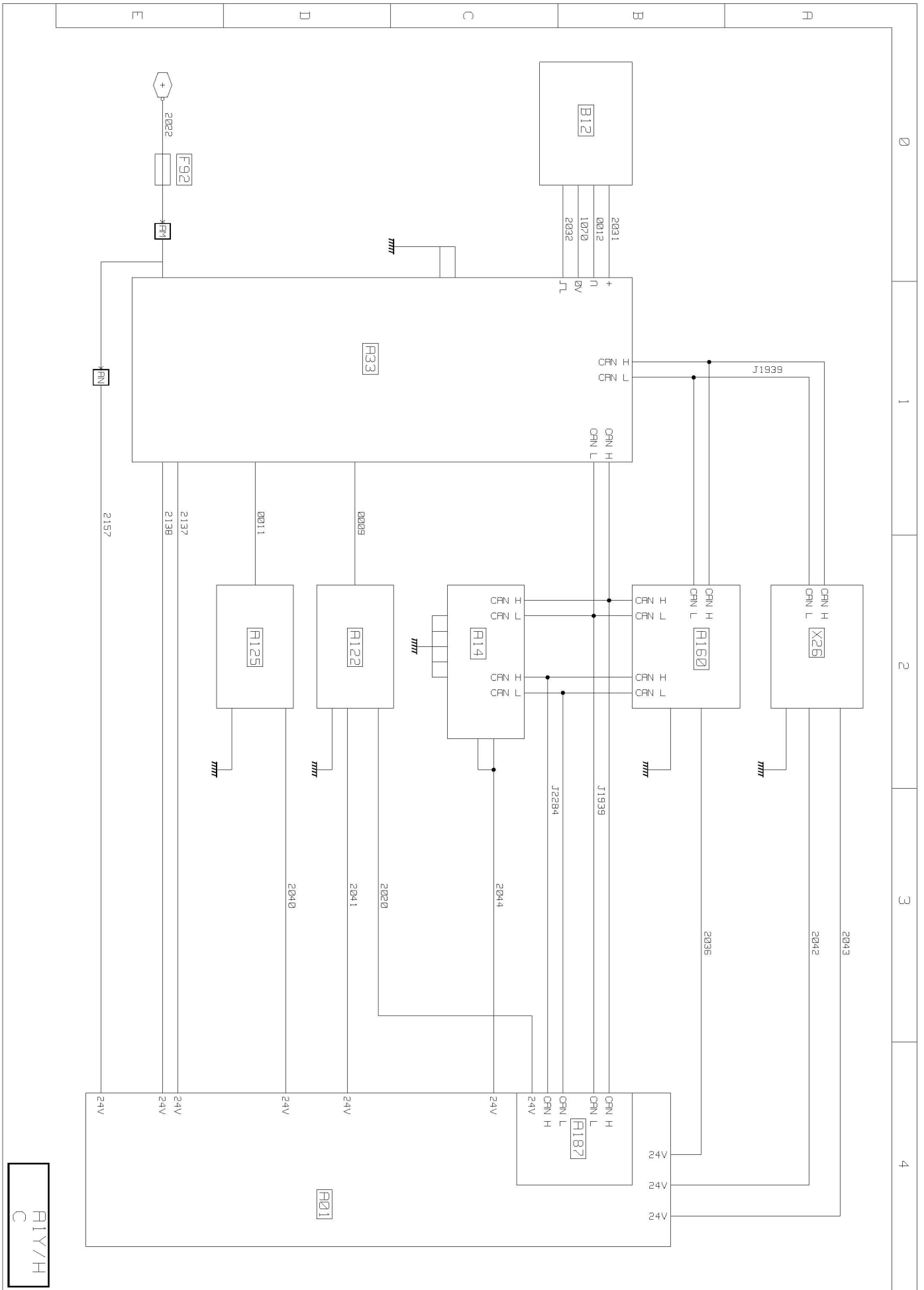
Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B23	Retarder oil temperature sensor	CEK
B69	Retarder coolant temperature sensor	CEK
B138	Retarder oil pressure sensor	CEK
Y17	Retarder control solenoid valve	CEK

JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

	Direct after battery power supply.
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Shared function - Tachograph



Shared function - Tachograph

Key to devices

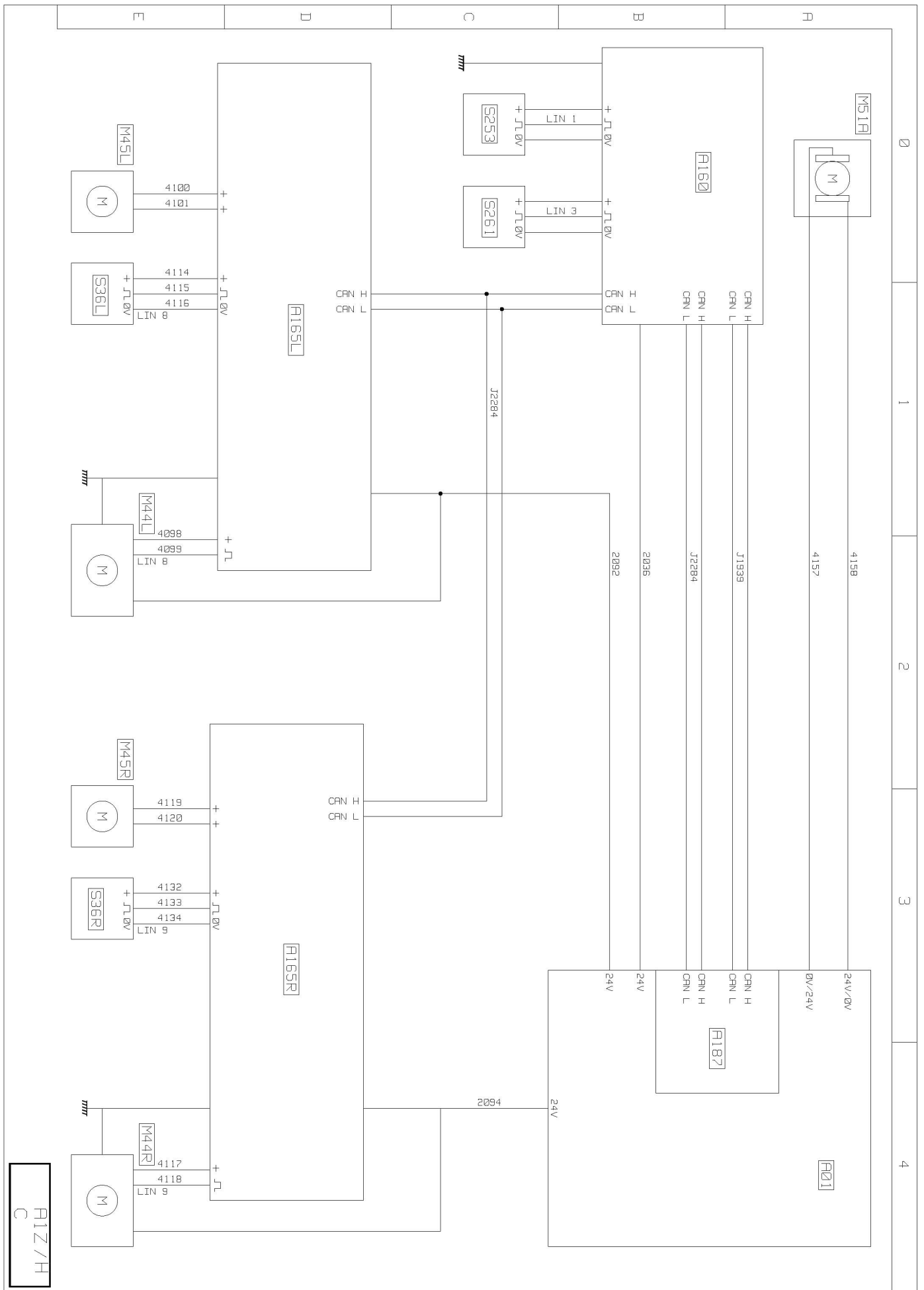
Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A33	Tachograph	CB1
A122	Remote payment system management control unit	CBK
A125	On-board management system interface control unit	CBT
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B12	Tachograph vehicle speed sensor	CB1
X26	Onboard management pre-arrangement (ECU)	CBK

AM : with **ADR** equipment

YE-AR : without **ADR** equipment

	Direct after battery power supply.
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Shared function - Windows and sun-roof



Shared function - Windows and sun-roof

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
M44L	Left-hand front door window lift motor with anti-pinch system	DA7
M44R	Right-hand front door window lift motor with anti-pinch system	DA8
M45L	Left-hand front door window lift motor	DA7
M45R	Right-hand front door window lift motor	DA8
M51A	Sunroof electric motor	GDA
S36L	Control for left-hand front window lift motor	DA7
S36R	Control for right-hand front window lift motor	DA8
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S261	Repositionable control unit (group 5)	GF1



Shared function - Euro VI engine management

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
A124	Starter motor assembly	BA2
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/ HBF/JAE
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A182	Diesel fuel primary filter dryer and heater unit	C1K/C1L
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/ CB1/CBK/CD5/DA7/DA8/ EBJ/FA1/GA1/GC1/GDA/ GEA/GEB/GEQ/HAA/ JAD/JAF/JAG
B96	Nitrogen oxide concentration sensor	C2C
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B265	Fuel heating unit	C1T
G02	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
M15	Electric fuel priming pump	C1T/C1U/C1X
R01	Intake air preheating resistor	CCT
Y35	Engine cooling fan speed regulation solenoid valve	C1D/C1G/C1T
Y37	Solenoid valve assembly for exhaust braking	C1U/C1X
Y38	Dryer bleed solenoid valve	C1U/C1X
Y39	VTC engine brake solenoid valve	C1C/C1U/C1X
Y109	Water pump electromagnetic clutch	C1T/C1U/C1X
Y110	Oil cooling solenoid valve	C1C/C1U/C1X
Y111	Piston cooling solenoid valve	C1C/C1U/C1X
Y151	Solenoid valve assembly for exhaust braking	C1C

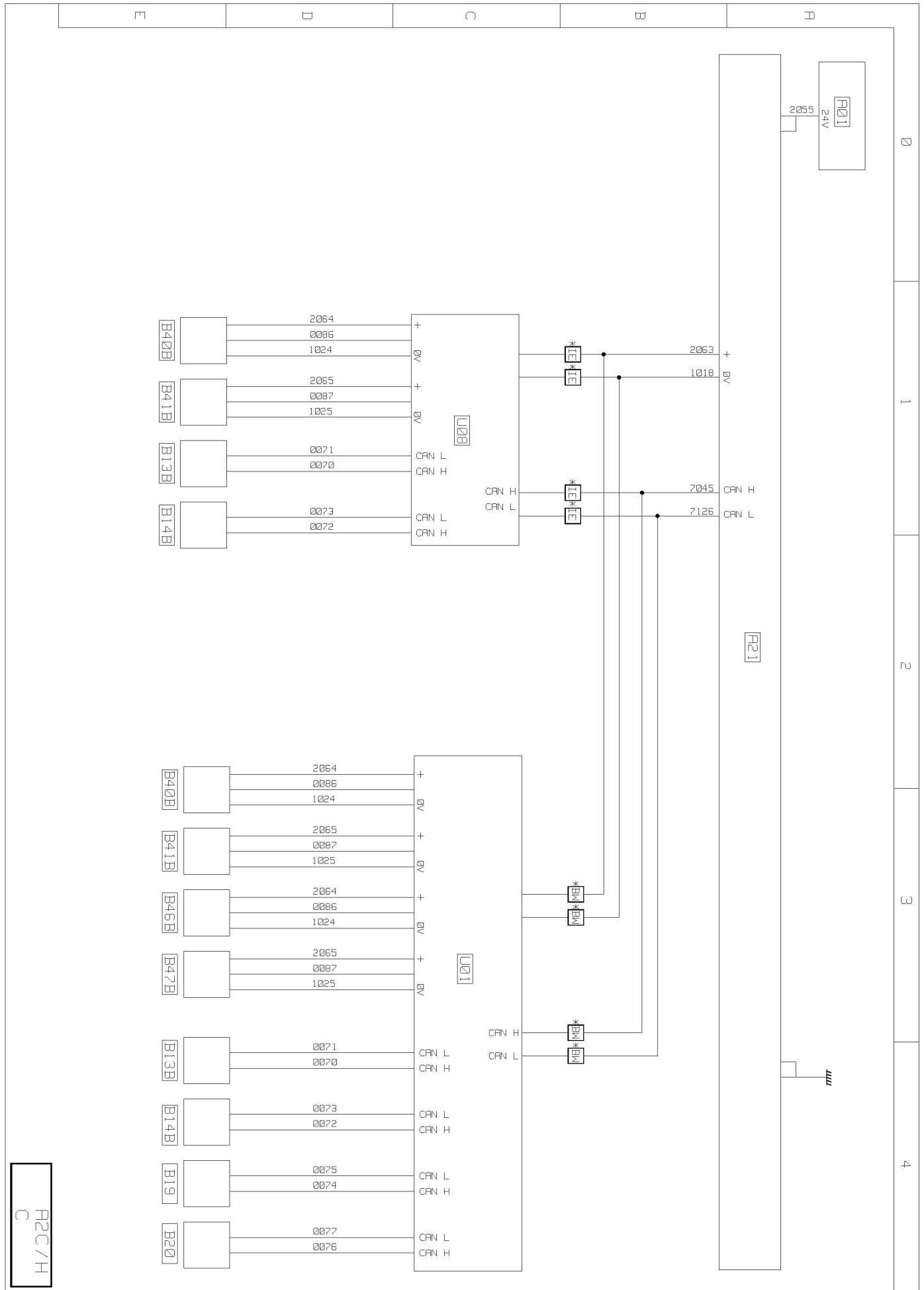
CQ : with 11 l engine

CU : with 13 l engine

JQ : vehicles compliant with **Euro V** and **Euro VI** standards

	Direct after battery power supply.
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Shared function - Front braking management



Shared function - Front braking management

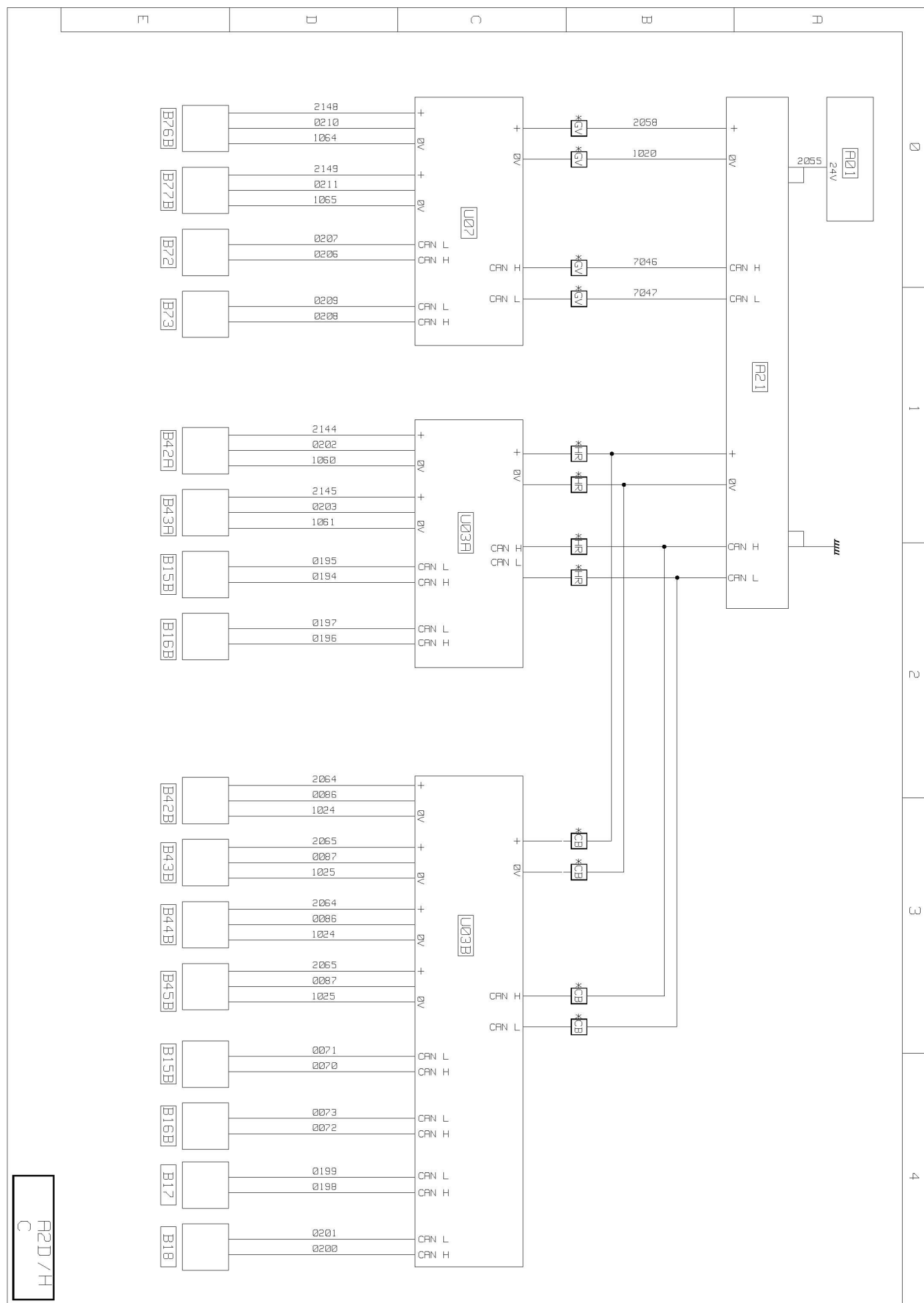
Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B19	Left-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B20	Right-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B46B	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
B47B	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
U01	Braking assistance modulator (front axle)	CFK
U08	Braking assistance modulator (front axle) (EBS)	CFK

BW : 8x4 vehicles

IE : 4x2 - 6x2 - 6x4 vehicles

Shared function - Rear braking management



Shared function - Rear braking management

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/ HBE/HBF
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Right-hand rear wheel speed sensor	CFN
B17	Left-hand rear wheel speed sensor (rear axle)	CFN
B18	Right-hand rear wheel speed sensor (rear axle)	CFN
B42A	Left-hand rear wheel brake lining wear sensor	CFN
B42B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B43A	Right-hand rear wheel brake lining wear sensor	CFN
B43B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B44B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B45B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B72	Left-hand rear wheel speed sensor (TAG rear axle)	CFN
B73	Right-hand rear wheel speed sensor (TAG rear axle)	CFN
B76B	Left-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
B77B	Right-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	CFN
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	CFN
U07	Braking assistance modulator (TAG second rear axle) (EBS)	CFN

CB : 6x4 - 8x4 vehicles

HR : 4x2 - 6x2 vehicles

GV : with TAG axle

WIRING DIAGRAMS

List of "equipment" codes

Key to devices

Code	Function description	Diagram page no.
A01	Electrical distribution box in cab	-
A03A	Main information display	CAK
A06	Driver's heated seat unit	GC1
A07	Radio set	GDH
A13A	Automated manual transmission management control unit	CD5
A13B	Automated manual transmission management control unit	CD5
A14	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/C1R/ C1S/C1T/C1U/C1X
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/HBE/HBF
A26	Driving assist management control unit (DACU)	FJK
A26B	Driving assist management control unit (DACU)	FJL
A28B	ADR vehicle master power supply management control unit	BA3
A31	Vehicle anti-theft system ECU (AECU)	DAA
A33	Tachograph	CB1
A34B	Air conditioning management control unit	GBP
A36	Body builder pre-equipment management control unit (BBM)	CKC/JAC
A41	Retarder equipment unit	CEK
A42	Clutch control apparatus assembly	CD5
A43	Engine fan speed regulator unit	C1B/C1D/C1G/C1R/C1T/C1X
A45	Fuel heating unit	C1A/C1S/C1U
A48	Television set	GE2
A77	Tyre pressure monitoring control unit	CG1
A122	Remote payment system management control unit	CBK
A123	Remote payment system transmitter	CBK
A124	Starter motor assembly	BA2
A125	On-board management system interface control unit	CBT
A132	Vehicle immobiliser alcolock control unit	DAK
A133	Vehicle immobiliser alcolock sensor	DAK
A154	Video display	DAE
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/GBP
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/CG1/ CKD/HBD/HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/EEA/ EBH/HBD/HBE/HBF
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A169	Video control unit (VS)	DAE

A170A	Cab air conditioning control panel	GBP
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	CBT
A173A	Parking brake electrical control	CKL
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A175	Additional telematics management control unit (TESP)	CBT
A176	Camera unit plus lane position change and object detection sensors (LPOS)	FJK
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	FJL
A177	Air production management control unit (APM)	CKL
A182	Diesel fuel primary filter dryer and heater unit	C1K/C1L
A186	Night time air conditioning ECU	GBB/GBC
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/CA3/CB1/CBK/ C1L/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/GEQ/ HAA/JAD/JAF/JAG
A188	FM signal distributor	CBT
A189	Refrigerator	GEQ
A190	Air control solenoid and urea temperature sensor assembly	C2D
A211	Air/air independent heater	GB1
A213	Tyre Pressure Monitoring System (TPMS) information display	CG1
A230	Touch screen secondary information display (SID)	GDI
A231	Service and entertainment module (SEM)	GDI
A880	Night time air conditioning control panel	GBC
A880RT	Night time air conditioning equipment assembly	GBC
A937	OptiTrack system management ECU	CDV
A950	Night time air conditioning control panel	GBB
A950C	Night time air conditioning compressor assembly	GBB
A950T	Night time air conditioning equipment assembly	GBB
ASHO	OptiTrack hydraulic system information display	CDV
B03	Brake pedal position sensor	CF3
B04	Engine speed sensor on engine flywheel	C1R/C1S/C1T/C1U/C1X
B05	Engine speed sensor on camshaft	C1R/C1S/C1T/C1U/C1X
B07	Fuel level sensor	CDU
B09B	Gearbox oil temperature sensor	CD9
B12	Tachograph vehicle speed sensor	CB1
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Left-hand rear wheel speed sensor	CFN

B17	Left-hand rear wheel speed sensor (rear axle)	CFN
B18	Right-hand rear wheel speed sensor (rear axle)	CFN
B19	Left-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B20	Right-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B21	Engine coolant circuit temperature sensor	C1A/C1B/C1D/C1G
B22	External temperature sensor	GBP
B23	Retarder oil temperature sensor	CEK
B24A	Lift-up axle air spring air pressure sensor	CGM/CKC
B25	Accelerator pedal position sensor	CA3
B26	Clutch pedal position sensor	CA3
B26B	Clutch position sensor (on gearbox)	CD5
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
B32	Engine cooling fan speed sensor	C1B/C1D/C1G/C1R/C1T
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1B/C1D/C1G/C1R/C1T
B39	Air filter pressure and temperature sensor	C1B/C1D/C1R/C1T
B39_B	Air filter pressure sensor	C1B/C1D/C1G/C1R/C1T
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B42A	Left-hand rear wheel brake lining wear sensor	CFN
B42B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B43A	Right-hand rear wheel brake lining wear sensor	CFN
B43B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B44B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B45B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B46B	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
B47B	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
B49	Steering lockover angle sensor	CF3
B50	Chassis lateral acceleration sensor	CF3
B51	Engine boost pressure sensor	C1A/C1B
B52	Water in fuel sensor	C1A/C1S/C1U/C1X
B54	Pressure sensor inside engine block	C1A/C1B/C1C/C1D
B57	Sensor for air pressure in left-hand suspension air spring (rear drive axle no. 1)	CGA
B58	Sensor for air pressure in right-hand suspension air spring (rear drive axle no. 1)	CGA
B60L	LH front loudspeaker	GDH
B60R	RH front loudspeaker	GDH
B60LR	Rear left-hand speaker	GDH

B60RR	Rear right-hand speaker	GDH
B63	Microphone	GDH
B67	Vehicle rear visibility assistance camera	DAE
B69	Retarder coolant temperature sensor	CEK
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B72	Left-hand rear wheel speed sensor (TAG rear axle)	CFN
B73	Right-hand rear wheel speed sensor (TAG rear axle)	CFN
B76B	Left-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
B77B	Right-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
B85	Exhaust gas temperature sensor upstream of particulate filter	C2C
B90	Alarm presence detector ultrasound transmitter	DAA
B91	Alarm presence detector ultrasound receiver	DAA
B96	Nitrogen oxide concentration sensor	C2C
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B98	Exhaust gas temperature sensor downstream of catalytic converter	C2C
B102	Oil temperature sensor on oil filter holder	C1C/C1D
B115	Exhaust gases relative pressure sensor in the particulate filter	C2C
B118	Engine oil pressure sensor	C1A/C1B/C1C/C1D/C1G
B119	Engine oil level and temperature sensor assembly	C1B/C1C/C1D/C1G/C1R
B138	Retarder oil pressure sensor	CEK
B142	Urea temperature and level sensor assembly inside the tank	C2F
B142B	Urea tank temperature and level sensor assembly	C2D
B187	Diesel fuel pressure sensor for exhaust injector	C1D/C1G/C1T
B207	Piston cooling oil pressure sensor	C1A/C1B/C1C/C1D
B213	Exhaust back-pressure sensor	C1B/C1D/C1G
B222	Rail fuel high pressure sensor	C1T/C1X
B231	Engine coolant circuit temperature sensor	C1C
B234	Fifth wheel position sensor assembly	JAE
B236	Mist on windscreen sensor	GBP
B237	Service brake pressure sensor	CF3
B237A	Service brake pressure sensor	CF3
B238	Object detection and distance radar sensor (FLS)	FJK
B238B	Object detection and distance radar sensor (FLS)	FJL
B239	Rain and light detection sensor assembly	FA1
B242	Ultrasound decoder for anti-intrusion protection (UIP)	DAA
B245A	Vehicle rear visibility assistance camera	DAE
B248	Lift-up axle air spring air pressure sensor	CGM
B249	Screen wash level sensor	FA1
B250	24 V DC battery charge status sensor	BA2

B252L	Tweeter speaker, left-hand side	GDH
B252R	Tweeter speaker, right-hand side	GDH
B253	Alarm presence detector ultrasound transmitter	DAA
B260	Exhaust back-pressure sensor	C1C
B262	Urea pressure sensor	C2D
B263	Air pressure sensor inside the urea tank	C2D
B265	Fuel heating unit	C1T
B331	Air quality measuring sensor	GBP
B332	Air blower regulator	GBP
B333	Air conditioning gas pressure sensor	GBP
B334	Temperature sensor at evaporator output	GBP
B335	Temperature sensor at air conditioning unit output	GBP
B800	Night time air conditioning temperature sensor	GBB/GBC
B901	Pump return potentiometer	CDV
B902	OptiTrack system oil temperature sensor	CDV
B903	OptiTrack system forward drive pressure sensor	CDV
B904	OptiTrack system reverse drive pressure sensor	CDV
B905	OptiTrack system diagnostic socket	CDV
B906	OptiTrack system low oil level sensor	CDV
B907	OptiTrack system oil filter clogging sensor	CDV
B908	OptiTrack system oil boost pressure sensor	CDV
BAPS	Lift-up air spring reservoir pressure sensor	CKC
BB1	Body builder pre-equipment connector no. 1	JAF
BB2	Body builder pre-equipment connector no. 2	JAF
BB3	Body builder pre-equipment connector no. 3	JAF
BBEC	Central electrical distribution box for body builder pre-equipment	JAF
BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
BBEC2A	Central electrical distribution box for body builder pre-equipment connector no. 2	CKC/JAF
BBEC3A	Central electrical distribution box for body builder pre-equipment connector no. 3	JAF
BOIL	Controlled axle oil reservoir level sensor	CKC
BPHF	Flame detector	GB1/GBA
BPHT	Overheating safety	GB1/GBA
BPHW	Engine coolant temperature sensor	GBA
BSP	Controlled axle in neutral position sensor	CKC
BTP	Controlled axle oil temperature sensor	CKC
D03	Vehicle hour meter	HAA
DSP	Refrigerator setting screen	GEQ
E01L	Left-hand main beam headlamp	EA2/EA3
E01R	Right-hand main beam headlamp	EA2/EA3

E02L	Left-hand dipped beam headlamp	EA2/EA3
E02R	Right-hand dipped beam headlamp	EA2/EA3
E06L	Left-hand reverse lamp	EAA
E06R	Right-hand reverse lamp	EAA
E08L	Left-hand front parking lamp	EA2/EA3
E08R	Right-hand front parking lamp	EA2/EA3
E09L	Left-hand brake light	EAA
E09R	Right-hand brake light	EAA
E10L	Left-hand rear parking lamp	EAA
E10R	Right-hand rear parking lamp	EAA
E11LC	Side parking lamp - left-hand centre	EBH
E11LF	Side parking lamp - left-hand front	EBH
E11LR	Side parking lamp - left-hand rear	EBH
E11LR2	Side parking lamp - rear left-hand on trailer	EBH
E11LW	Side parking lamp - left-hand rear wheel	EBH
E11RC	Side parking lamp - right-hand centre	EBH
E11RF	Side parking lamp - right-hand front	EBH
E11RR	Side parking lamp - right-hand rear	EBH
E11RR2	Side parking lamp - rear right-hand on trailer	EBH
E11RW	Side parking lamp - rear right-hand wheel	EBH
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E13FL	Left-hand front direction indicator lamp	EA2/EA3
E13FR	Right-hand front direction indicator lamp	EA2/EA3
E13L	Left-hand rear direction indicator lamp	EAA
E13R	Right-hand rear direction indicator lamp	EAA
E21L	Left-hand fog light	EAA
E21R	Right-hand fog light	EAA
E27L	Left-hand tail lights unit	EAA
E27R	Right-hand tail lights unit	EAA
E39L	Registration plate left-hand side lighting lamp	EAA
E83AL	LH light unit	EA2
E83AR	RH light unit	EA2
E83BL	Left-hand headlamp insert	EA3
E83BR	Right-hand headlamp insert	EA3
E97L	Fog driving light, LH	EA2/EA3
E97R	Fog driving light, RH	EA2/EA3
E99L	Left-hand side bunk lighting lamp	GA1
E99R	Right-hand side bunk lighting lamp	GA1
E100L	Lighting unit, left-hand cabin light (environment)	GA1

E100R	Lighting unit, right-hand cabin light (environment)	GA1
E101L	Reading light, left-hand side	GA1
E101R	Reading light, right-hand side	GA1
E102	Instrument panel lighting (ambiance)	GA1
E103C	Centre console light (ambiance)	GA1
E103L	Left-hand console light (ambiance)	GA1
E103R	Right-hand console light (ambiance)	GA1
E104	Light for storage compartment under bunk no. 1	GA1
E105	Light for storage compartment under bunk no. 2	GA1
E115L	Left-hand marker light	EBJ
E115R	Right-hand marker light	EBJ
E116L	Directional reading light, left-hand side	GA1
E116R	Directional reading light, right-hand side	GA1
E117C	Light for storage compartment in centre console	GA1
E117L	Light for storage compartment in left-hand console	GA1
E117R	Light for storage compartment in right-hand console	GA1
E119	Driver's side stepwell lighting lamp	GA1
E120C	Central identification light on the roof	EBJ
E120L	Left-hand identification light on the roof	EBJ
E120R	Right-hand identification light on the roof	EBJ
E128	Air/water independent heater	GBA
E130L	Left-hand door edge illumination light	DA7
E130R	Right-hand door edge illumination light	DA8
E131L	Daytime running light - left-hand side	EA2/EA3
E131R	Daytime running light - right-hand side	EA2/EA3
E135L	Left-hand headlamp height adjustment motor	EA3
E135R	Right-hand headlamp height adjustment motor	EA3
ECU	Refrigerator ECU	GEQ
EL3	Working area spotlight	JAG
EL4AL	Left-hand rotary beacon on roof	JAG
EL4AR	Right-hand rotary beacon on roof	JAG
EL7	Trailer hitch area spotlight	JAE
FAN	Refrigerator fan	GEQ
FLT	Refrigerator supply filter	GEQ
FM15	Power fuse box	BA2
G01A	12 V DC battery No. 1	BA2
G01B	12 V DC battery No. 2	BA2
G02	Alternator	BA2
G02A	Alternator	BA2
H03	Reversing audible warning	EAA

H06	Horn - alarm siren	DAA
H09	Electric horn	EFG
K02	Cooling unit power supply relay	GEQ
K03	Sunroof motor power supply relay no. 1	GDA
K04	Sunroof motor power supply relay no. 2	GDA
K05	Windscreen wiper motor power supply relay	FA1
K06	Wiper motor high or low speed selector relay	FA1
K07	Trailer and body builder pre-equipment main power supply relay	JAF
K08	Coffee maker power supply relay	GEQ
K10	Additional lights power supply relay no. 1	JAG
K11	12 V accessories power supply relay	GEA/GEB
K12	Additional lights power supply relay no. 2	JAG
K13	Rotating beacon power supply relay	JAG
K14	24 V accessories power supply relay	GEQ
K16	Headlamp washer pump motor power supply relay	FA1
K17	Automatic gearbox management control unit power supply relay	CD5
K19	Trailer signal lighting power supply relay	JAG
K20	Body builder pre-equipment power supply relay	JAF
K21	After-ignition power supply relay no. 2	DA7/DA8
K22	Starter relay	CBK
K27	Engine management control unit power supply relay	C1K/C1L
K28	Cab tilt motor power supply relay	HAA
K30	Rotating beacon power supply relay	JAF
K48	Intake air preheating power supply relay	CCT
K49	Axle lift motor power supply relay	CK1
K65	Starter motor relay	BA2
K69	Fuel heating resistor power supply relay	CCL
K94A	Working spotlamp power supply relay	JAG
K94B	Television inhibitor relay	GE2
K95	Cab master power supply control relay	GEQ/GBB/GBC
K138	Windscreen de-icing resistors power supply relay	GCB
K901	OptiTrack system oil cooling fan control relay	CDV
K902	OptiTrack system after ignition current supply relay no. 1	CDV
K903	OptiTrack system after ignition current supply relay no. 2	CDV
KCEP	Controlled axle control relay	CKC
LMP	Refrigerator lamp	GEQ
M01	Windscreen wiper motor	FA1
M02	Windscreen washer pump motor	FA1
M03	Headlamp washer pump motor	FA1
M04	Starter	BA2

M05	Axle lift hydraulic pump motor	CK1
M08L	Left-hand headlamp height adjustment motor	EA2
M08R	Right-hand headlamp height adjustment motor	EA2
M09L	Left-hand front door locking system assembly	DA7
M09R	Right-hand front door locking system assembly	DA8
M11	Cab tilt motor	HAA
M12	Heated seat fan motor	GC1
M15	Electric fuel priming pump	C1T/C1U/C1X
M19	Exhaust gas recirculation solenoid valve	C1U
M43A	Front panel motor	GDA
M44L	Left-hand front door window lift motor with anti-pinch system	DA7
M44R	Right-hand front door window lift motor with anti-pinch system	DA8
M45L	Left-hand front door window lift motor	DA7
M45R	Right-hand front door window lift motor	DA8
M49	Urea supply pump module assembly	C2F
M51A	Sunroof electric motor	GDA
M55	Night time air conditioning evaporator motor-driven fan	GBB/GBC
M73	Urea supply metering pump	C2D
M98	Air recirculation flap motor	GBP
M99	Engine coolant circulation motorised valve motor	GBP
M100	Flap motor for air distribution via central and footwell air vents	GBP
M101	Air mixing flap motor	GBP
M102	Windscreen air distribution flap motor	GBP
M103	Air conditioning air blower motor-driven fan	GBP
M880_1	Night time air conditioning condenser motor-driven fan No. 1	GBC
M880_2	Night time air conditioning condenser motor-driven fan No. 2	GBC
M901	OptiTrack system oil cooling fan	CDV
M950	Night time air conditioning condenser pump motor	GBB
MAML	Wide angle rear view mirror motor, LH side	DA7
MAMR	Wide angle rear view mirror motor, RH side	DA8
MMML	Main rear view mirror motor, LH side	DA7
MMMR	Main rear view mirror motor, RH side	DA8
MPHWP	Independent heating water pump motor	GBA
MVCA1	Independent heating fan motor	GB1/GBA
NTC	Refrigerator temperature sensor	GEQ
R01	Intake air preheating resistor	CCT
R02AL	Left-hand electric external rear-view mirror	DA7
R02AR	Right-hand electric external rear-view mirror	DA8
R03	Driver's heated seat resistor	GC1
R04	Cigar lighter	GEQ
R10	Fuel heater resistor no. 2	C1A

R11	Electric coffee maker	GEQ
R15	Windscreen de-icing resistor	GCB
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	C2F
R46	Fuel heating resistor	CCL
R55	Microwave oven	GEQ
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	C2F
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	C2D
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2F
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2D
RACA1	Independent heater start-up resistor	GB1/GBA
RAML	Heated wide angle mirror, LH side	DA7
RAMR	Heated wide angle mirror, RH side	DA8
RMML	Heated main mirror, LH side	DA7
RMMR	Heated main mirror, RH side	DA8
S15A	Key-controlled contacts assembly	BB1
S26	Cab tilt control	HAA
S36L	Control for left-hand front window lift motor	DA7
S36R	Control for right-hand front window lift motor	DA8
S38	Vehicle emergency stop control	BA3
S39	Vehicle emergency stop control	BA3
S45	Position sensor - rear inter-wheel differential lock engaged	CDU
S45R	Position sensor - rear inter-wheel differential lock engaged (rear drive axle no. 2)	CDU
S46	Axle lift position sensor	CK1
S47	Position sensor - low speed range engaged	CD9
S49	Position sensor - reverse gear engaged	CD9
S52L	Left-hand position sensor - cab tilt safety feature	HAA
S52R	Right-hand position sensor - cab tilt safety feature	HAA
S56	Axle lift temperature sensor	CK1
S58B	Clutch pedal position sensor	CA3
S60A	Sensor no. 1 for oil pressure in power steering circuit	CKD
S60B	Sensor no. 2 for oil pressure in power steering circuit	CKD
S61	Position sensor - driver's seat belt fastened	GC1
S63	Position sensor - low speed range engaged	CD9
S68	Engine coolant level sensor	C1A/C1C/C1S/C1U/C1X
S70	Power steering oil flow sensor	CKD
S77	Emergency call control	CBT
S95A	Alarm panic button control	DAA

S101	Position sensor - gear selector in neutral	CD9
S105	Hazard lights control	CA3
S112	Engine shut down control	C1B/C1D/C1G/C1R/C1T
S124C	Power take-off no. 1 position sensor	CD9
S169	Engine emergency stop control (on the chassis)	BAH
S210	Identification lights on roof control	EBJ
S227	Fuel heating control	CCL
S238	Passenger side front curtain control	GDA
S243	Body builder pre-equipment control no. 1	JAF
S244	Body builder pre-equipment control no. 2	JAF
S245	Body builder pre-equipment control no. 3	JAF
S249L	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	CFR
S249R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	CFR
S250L	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFR
S250R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFR
S251L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	CFR
S251R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	CFR
S252L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	CFR
S252R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	CFR
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S261	Repositionable control unit (group 5)	GF1
S264	Repositionable control unit (group 1)	GF1
S266	Repositionable control unit (group 2)	GF1
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
S276	Steering wheel-mounted controls	GF2
S277	External lighting control unit	GF1
S278	Cruise control control assembly	GF1
S279	Differential lock selector control unit	GF1
S280	Cab lighting control	GF1
S282	Air suspension controls assembly	GF1
S286C	Centre console lighting contact	GA1
S286L	Left-hand console lighting contact	GA1
S286R	Right-hand console lighting contact	GA1
S901	OptiTrack system on/off control	CDV

S902	Instant start control	CDV
S903	OptiTrack system control lever	CDV
S904	OptiTrack system control assembly	CDV
SW1	Refrigerator lamp control	GEQ
TLT	Refrigerator tilt angle sensor	GEQ
U01	Braking assistance modulator (front axle)	CFK
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	CFN
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	CFN
U05	Trailer braking assistance modulator (EBS)	CFS
U07	Braking assistance modulator (TAG second rear axle) (EBS)	CFN
U08	Braking assistance modulator (front axle) (EBS)	CFK
U29	24/12 V - 11 A voltage converter	GEA/GEB
U30	24/12 V - 20 A voltage converter	GEA
U33	24/12 V - 20 A voltage converter	GEA
U34	24/12 V - 25 A voltage converter	GEA/GEB
V03	Diode	CK1
V04	Diode	CK1
V07	Vehicle alarm signalling diode	DAA
W02A	Immobiliser transponder antenna	DA6
W20	Television set antenna	GE2
W24	Satellite antenna and radio set	CBT
W25	Television set antenna	GE2
W26	CB and GSM antenna	GEA/GEB
W27	GPS antenna	CBK
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF
X04	Trailer connection (7-pin type 24 N)	HBD
X04A	Trailer connection (7-pin type 24 N)	HBD
X05	Trailer connection (7-pin type 24 S)	HBD
X05A	Trailer connection (7-pin type 24 S)	HBD
X07	12 volt power supply socket	GEA/GEB
X25	Socket	BA2
X26	Onboard management pre-arrangement (ECU)	CBK
X43	Vehicle diagnostic socket (OBD)	CA3
X54	Starter power supply lead intermediate connector	BA2

X105	24 volt power supply socket	GEQ
X106	24 volt power supply socket	GEQ
X107	24 volt power supply socket	GEQ
X115C	Rotary switch under steering wheel	GF2
X163	Docking station for mobile telephones	GEA/GEB
X164	USB and auxiliary audio connector	GDH
X165	12 Volts power supply socket on bunk	GEA/GEB
XALD01	Available power supply (additional external lighting on roof)	JAG
XALD02	Available power supply (additional front panel external lighting)	JAG
XALD05	Available power supply (console accessories)	GEA/GEB
XALD06	Available power supply (additional side parking lights)	EBH
XALD07	Available power supply (pre-equipment for driving assistance)	FJK
XALD08	Available power supply (CB pre-equipment)	GEA/GEB
XALD09	Available power supply (Telephone pre-equipment)	GEA/GEB
XALD10	Available power supply (working area spotlight)	JAG
XALD11	Available power supply (video control unit pre-equipment)	DAE
XALD12	Available power supply (breathalyser pre-equipment)	DAK
XALD13	Available power supply (television set pre-equipment)	GE2
Y02	Rear inter-wheel differential lock solenoid valve	CDU
Y03	Inter-axle differential lock solenoid valve	CDU
Y05	Rear axle suspension control solenoid valve assembly	CK1
Y06	Range change locking solenoid valve	CD9
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3
Y17	Retarder control solenoid valve	CEK
Y18A	Power take-off no. 1 engagement solenoid valve	JAE
Y18B	Power take-off no. 2 engagement solenoid valve	JAE
Y21	Low speed disengagement solenoid valve	CD5
Y22	High speed disengagement solenoid valve	CD5
Y23	High speed engagement solenoid valve	CD5
Y26	Low speed engagement solenoid valve	CD5
Y31	First gear locking solenoid valve	CD9
Y32	Fuel supply pump motor for independent heating	GB1/GBA
Y33A	No. 1 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y33B	No. 2 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y33C	No. 3 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y33D	No. 4 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y33E	No. 5 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y33F	No. 6 cylinder injector solenoid valve	C1R/C1S/C1U/C1X
Y34	Exhaust gas recirculation solenoid valve	C1X

Y35	Engine cooling fan speed regulation solenoid valve	C1B/C1D/C1G/C1R/C1T
Y37	Solenoid valve assembly for exhaust braking	C1A/C1S/C1U/C1X
Y38	Dryer bleed solenoid valve	C1A/C1S/C1U/C1X
Y39	VTC engine brake solenoid valve	C1C/C1A/C1S/C1U/C1X
Y42	Air conditioning compressor electric clutch	GBP
Y72	Air horn	EFG
Y80	Urea supply metering solenoid valve	C2E
Y81	Urea supply cooling solenoid valve	C2F
Y81C	Cooling solenoid valve for the urea	C2D
Y102	Fifth wheel hitch release solenoid valve	JAE
Y103	Exhaust injector solenoid valve	C1C/C1D/C1G
Y109	Water pump electromagnetic clutch	C1R/C1S/C1T/C1U/C1X
Y110	Oil cooling solenoid valve	C1A/C1C/C1S/C1U/C1X
Y111	Piston cooling solenoid valve	C1A/C1C/C1S/C1U/C1X
Y114	Air flow regulation solenoid valve	C1C/C1D/C1G
Y135	Rear axle suspension control solenoid valve assembly	CGA
Y136	Rear axle suspension control solenoid valve assembly	CGM
Y137	Rear axle suspension control solenoid valve assembly	CGM
Y143	Rail high pressure regulation solenoid valve	C1T/C1X
Y148	Exhaust gas recirculation solenoid valve	C1C
Y151	Solenoid valve assembly for exhaust braking	C1C
Y901	Freewheeling control solenoid valve no. 1	CDV
Y903	Freewheeling control solenoid valve no. 2	CDV
Y904	OptiTrack system hydraulic flow management solenoid valve no. 1	CDV
Y905	OptiTrack system hydraulic flow management solenoid valve no. 2	CDV
YEBP	Controlled axle oil bypass solenoid valve	CKC

Summary of diagrams

Information:

Il est possible d'améliorer la lecture des schémas en téléchargeant une application particulière permettant de lire le format *.svg. Cette application vous permettra entre autre d'avoir accès à des informations directement visibles depuis la planche de schéma. En cas de problème veuillez prendre contact avec INFOLINE.

Information:

It is possible to improve reading of the diagrams by downloading a special application to help in reading of the *.svg format. This application will, among other things, enable you to access directly visible information from the diagram plate. In the event of problems, please contact INFOLINE.

Informazione :

È possibile migliorare la lettura degli schemi, scaricando una particolare applicazione che permette di leggere il formato *.svg. La suddetta applicazione consentirà anche di accedere ad informazioni direttamente visibili dalla tavola dello schema. In caso di problemi, prendere contatto con INFOLINE.

Información:

Es posible mejorar la lectura de los esquemas bajando una aplicación especial para poder leer el formato *.svg. Esta aplicación le permite acceder a informaciones visibles directamente desde la lámina de esquema. En caso de problemas, póngase en contacto con INFOLINE.

Információ:

A kapcsolási rajzok olvashatósága növelhető, ha letölti a *.svg formátum olvasására alkalmas egyedi applikációt. Ezzel az applikációval többek közt lehetősége nyílik a kapcsolási rajzok lapjain közvetlenül megtalálható információk elérésére. Ha probléma merül fel hívja az INFOLINE vonalat.

Tiedoksi:

Kaavioiden lukua voidaan parantaa etälataamalla erityinen sovellus, jolla voidaan lukea *.svg tiedostoja. Tämä sovellus sallii muun muassa pääsyn suoraan kaaviokuvasta nähtävissä oleviin tietoihin. Ongelmien ilmaantuaessa, ota yhteys INFOLINE palveluun.

Informace:

Čitelnost schémat je možné zlepšit tak, že si stáhnete specifickou aplikaci, která Vám dovolí číst formát *.svg. Kromě toho Vám tato aplikace dovolí přístup k informacím, které budou přímo viditelné na výkresu schématu. V případě problému se spojte s INFOLINE.

Information:

Det er muligt at opnå en bedre visning af diagrammerne, hvis man downloader et bestemt program, der kan læse formatet *.svg. Med dette program kan man blandt andet få adgang til informationer, der kan ses direkte fra diagrammet. Kontakt venligst INFOLINE i tilfælde af problemer.

Information:

Das Ablesen der Schaltpläne lässt sich durch Herunterladen einer speziellen Anwendung verbessern, die das Format *.svg lesen kann. Mit dieser Anwendung können Sie unter anderem auf Informationen zugreifen, die direkt von der Schaltplantafel aus sichtbar sind. Wenden Sie sich bei Problemen an INFOLINE.

Informatie:

Het is mogelijk het lezen van de schema's te verbeteren door een speciaal programma te laden waardoor het *.svg kan worden gelezen. Dit programma maakt het u onder andere mogelijk toegang te verkrijgen tot informatie die direct afleesbaar is vanuit de tekening van het schema. Bij een probleem moet u contact opnemen met de INFOLINE.

Informacja:

Możliwa jest poprawa jakości odczytu schematów poprzez pobranie specjalnej aplikacji odczytującej format *.svg. Aplikacja ta pozwoli między innymi na uzyskanie dostępu do informacji widzianych bezpośrednio na planszy schematu. W razie problemów prosimy o kontakt z INFOLINE.

Informação:

É possível melhorar a leitura dos esquemas telecarregando uma aplicação particular que permite ler o formato *.svg. Esta aplicação permite-lhe também ter acesso a informações directamente visíveis no plano do esquema. Em caso de problema queira entrar em contacto com a INFOLINE.

Информация:

Существует возможность улучшить читаемость схем путём загрузки специального приложения, позволяющего читать файлы формата *.svg. Это приложение позволит вам, кроме прочего, получить доступ к информации, видимой непосредственно на планшете схемы. В случае возникновения проблемы, свяжитесь со службой INFOLINE.

Bilgi:

Şemaları svg* formatı okumayı sağlayan özel bir uygulama yükleyerek daha kolay okumak mümkündür. Bu uygulama size diğer yararları ile birlikte şemalar tablosundan doğrudan görülebilen bilgilere erişim olanağı sağlayacaktır. Sorunla karşılaşmanız durumunda, INFOLINE ile temas kurun.

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Engine management - 11-litre engine control (Euro III and Euro V)

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Engine management - 13-litre engine control (Euro III and Euro V)

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Engine management - 11-litre engine control (Euro VI)

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Engine management - 13-litre engine check (Euro VI) - Phase 1 (OBDEP-A)

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Engine management - 13-litre engine check (Euro VI) - Phase 2 (OBDEP-C)

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Engine management – Interface between engine and vehicle (Euro III and Euro V)

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Engine management – Interface between engine and vehicle (Euro VI)

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Engine management - 11-litre engine injection control (Euro III and Euro V)

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Engine management - Urea supply 1/2 (Euro V)

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Vehicle management - Main ECU

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Vehicle management – Tachograph

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Drive-line management – Differential lock and transfer box

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Safety management – Alarm

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Safety management - Video surveillance

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Safety management – Alcotest

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Lighting and signalling – Main beam headlamps

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Lighting and signalling – On-site headlamps

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Lighting and signalling – Rear lights

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Lighting and signalling – Side parking lights

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Lighting and signalling – Roof-mounted parking lights

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Lighting and signalling – Horn

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Diagram sheet: **FA1**

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Driving assist - Driving radar (before 04/06/2018)

Diagram sheet: **FJK**

See page 228

Driving assist - Driving radar (after 03/06/2018)

Diagram sheet: **FJL**

See page 230

Life on board – Cab compartment lighting - Standard production

Diagram sheet: **GA1**

See page 232

Life on board – Air/air independent heater

Diagram sheet: **GB1**

See page 234

Life on board – Air/water independent heating

Diagram sheet: **GBA**

See page 236

Life on board - Night time air conditioning - SP950

Diagram sheet: **GBB**

See page 238

Life on board - Night time air conditioning - RT880

Diagram sheet: **GBC**

See page 240

Life on board - Air conditioning

Diagram sheet: **GBP**

See page 242

Life on board – Heated seats

Diagram sheet: **GC1**

See page 244

Life on board - Comfort accessories - Windscreen de-icing

Diagram sheet: **GCB**

See page 246

Life on board – Sun-roof and sun visor

Diagram sheet: **GDA**

See page 248

Life on board - Radio

Diagram sheet: **GDH**

See page 250

Life on board - Services and entertainment module

Diagram sheet: **GDI**

See page 252

Life on board - TV/DVD

Diagram sheet: **GE2**

See page 254

Life on board - 12V sockets and accessories

Diagram sheet: **GEA**

See page 256

Life on board - 12V sockets and accessories

Diagram sheet: **GEB**

See page 258

Life on board – Comfort accessories - Accessory sockets

Diagram sheet: **GEQ**

See page 260

Life on board - Control/command 1/2

Diagram sheet: **GF1**

See page 262

Life on board - Control/command 2/2

Diagram sheet: **GF2**

See page 264

Vehicle maintenance – Cab tilt and hour meter

Diagram sheet: **HAA**

See page 266

Trailer connections - Rigid trailer sockets

Diagram sheet: **HBD**

See page 268

Trailer connections - Tractor trailer sockets

Diagram sheet: **HBE**

See page 270

Trailer connections - Trailer sockets - Dual type

Diagram sheet: **HBF**

See page 272

Body builder system management - Body builder pre-equipment ECU

Diagram sheet: **JAC**

See page 274

Body builder system management – main ECU

Diagram sheet: **JAD**

See page 276

Body builder system management – Central chassis ECU

Diagram sheet: **JAE**

See page 278

Body builder system management – Electrical distribution box

Diagram sheet: **JAF**

See page 280

Body builder system management – Supplementary lighting

Diagram sheet: **JAG**

See page 282

J1939 CAN bus transfer zone

Diagram sheet: **WA5**

See page 284

J2284 main CAN bus transfer zone

Diagram sheet: **WA6**

See page 286

J2284 chassis information CAN bus transfer zone

Diagram sheet: **WAA**

See page 288

J2284 human/machine interface CAN bus transfer

Diagram sheet: **WAB**

See page 290

J2284 cab information CAN bus transfer zone

Diagram sheet: **WAC**

See page 292

Cab earth - Dashboard left-hand side

Diagram sheet: **WCA**

See page 294

Cab earth - Dashboard right-hand side

Diagram sheet: **WCB**

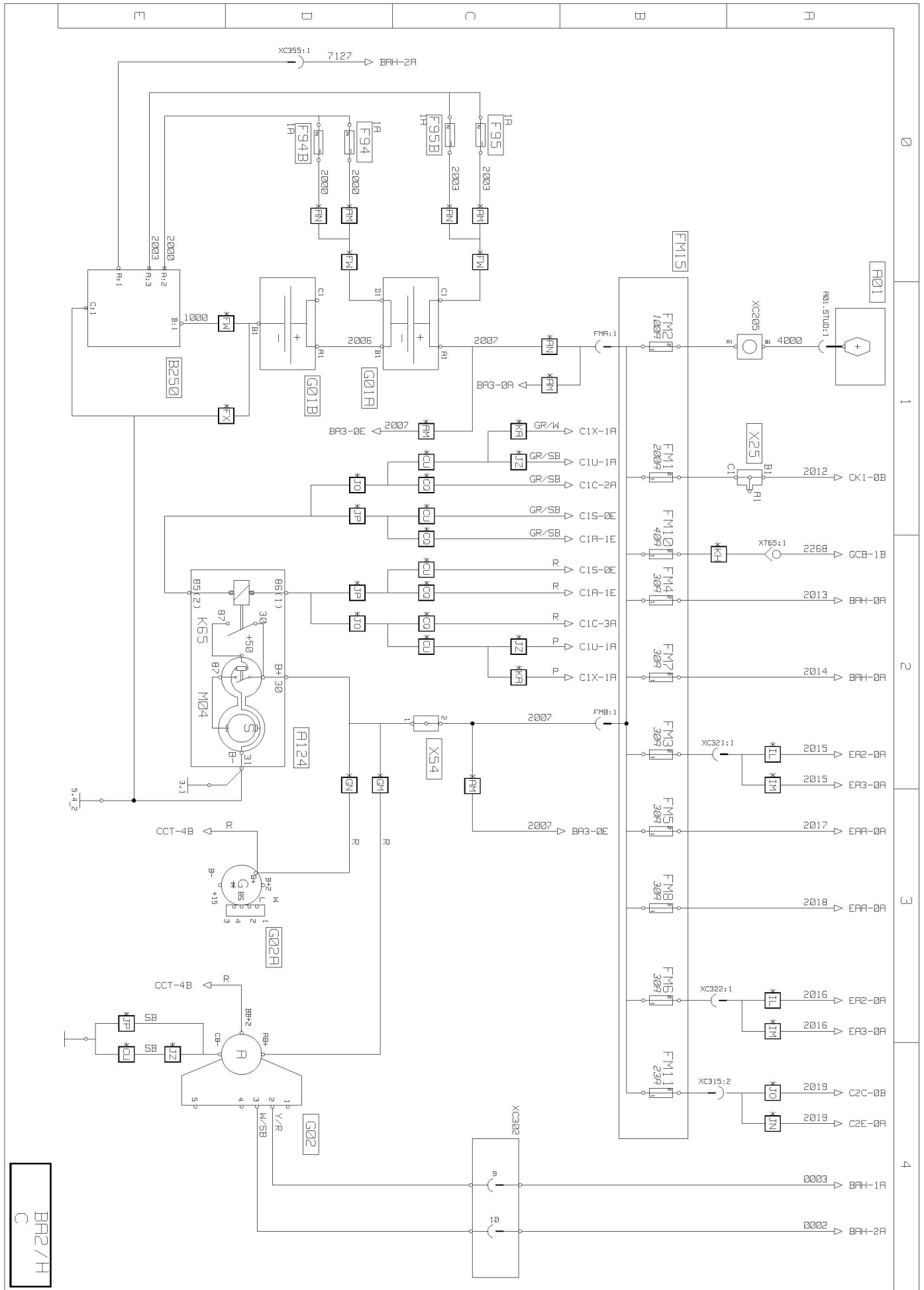
See page 296

Cab earth - Roof left-hand side

Diagram sheet: **WCC**

See page 298

Energy production – Standard and ADR



Energy production – Standard and ADR

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A124	Starter motor assembly	B3c
B250	24 V DC battery charge status sensor	C5d
FM15	Power fuse box	C5d
G01A	12 V DC battery No. 1	C5d
G01B	12 V DC battery No. 2	C5d
G02	Alternator	B3c
G02A	Alternator	B3c
K65	Starter motor relay	B3c
M04	Starter	B3c
X25	Socket	B3c
X54	Starter power supply lead intermediate connector	B3c

AM : with **ADR** equipment

YE-AR : without **ADR** equipment

CQ : with **11 l** engine

CU : with **13 l** engine

FW : with **24 V DC** battery charge status sensor

FX : without **24 V DC** battery charge status sensor

GM : **Bosch** alternator

GN : **Melco** alternator

IL : with main beam headlights

IM : with on-site headlights

JN : vehicles compliant with **Euro V** standards

JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

JZ : **Euro VI** Phase 1 – **OBDEP-A**

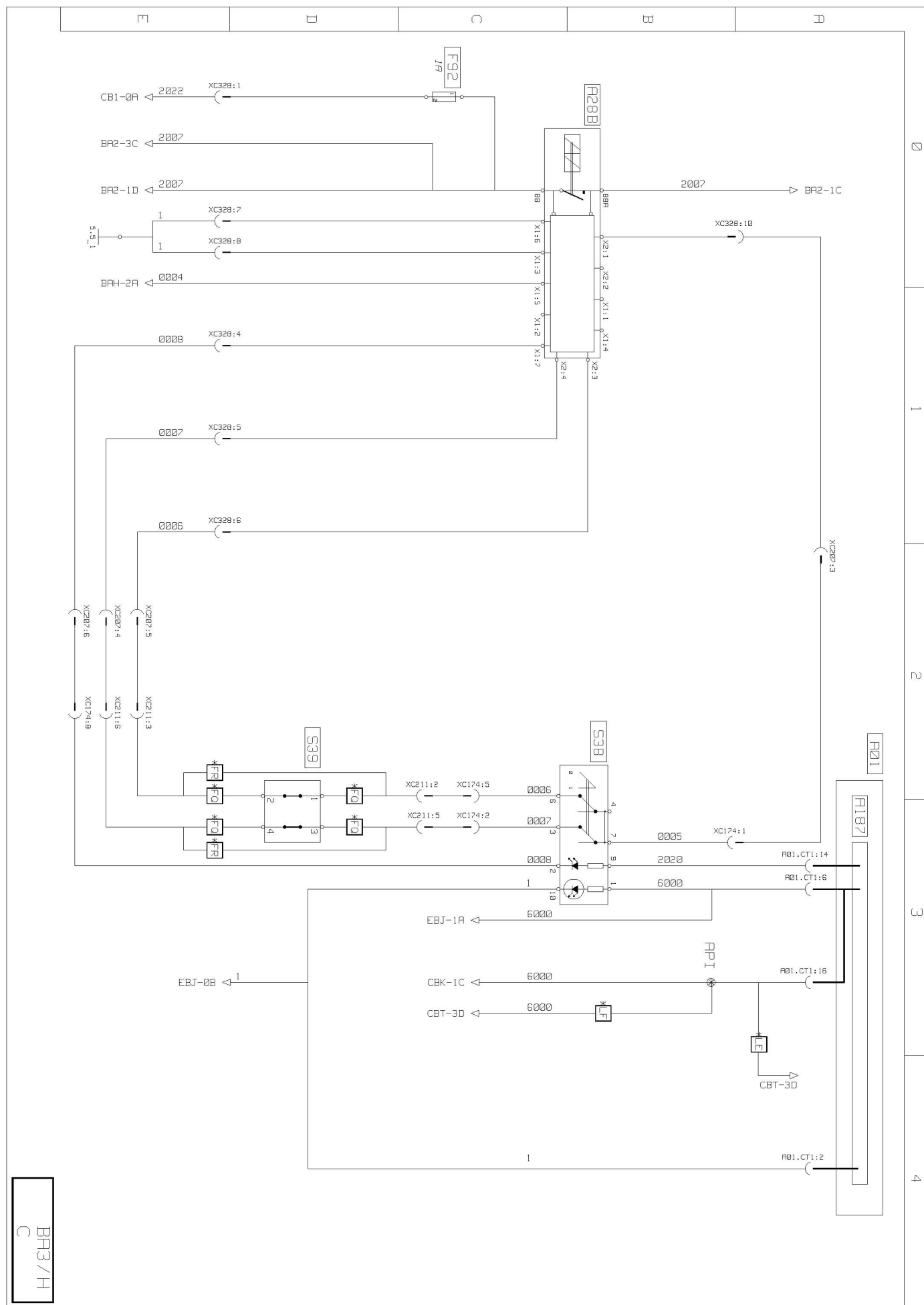
KA : **Euro VI** Phase 2 – **OBDEP-C**

KH : with windscreen de-icing



Direct after battery power supply.

Energy production – ADR equipment



BR3/H
C

Energy production – ADR equipment

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A28B	ADR vehicle master power supply management control unit	C5d
A187	Main vehicle management control unit (VMCU)	B2b
S38	Vehicle emergency stop control	C2a
S39	Vehicle emergency stop control	A4b

FQ : ADR equipment with **2** emergency stop controls

EN : ADR equipment with **1** emergency stop control

LE : with entertainment service module

LF : with audio system module



Electrical distribution - Standard on chassis

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
S169	Engine emergency stop control (on the chassis)	C5d

AM : with **ADR** equipment

YE-
AR : without **ADR** equipment



Vehicle starting – Standard production

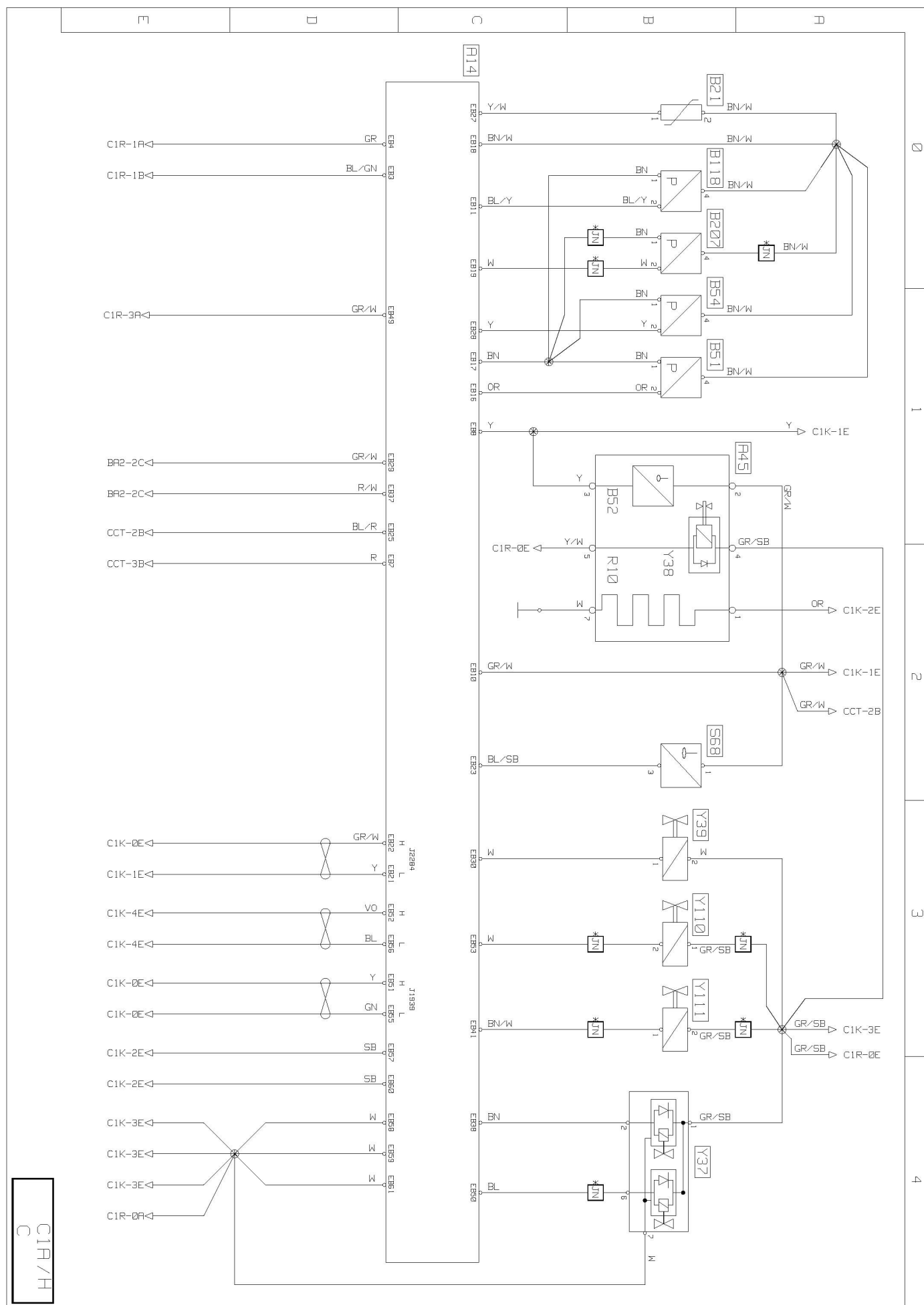
Key to devices

Code	Function description	Location
A187	Main vehicle management control unit (VMCU)	B2b
S15A	Key-controlled contacts assembly	C2c

FU : with pre-equipment for breathalyser ignition interlock device

FV : without pre-equipment for breathalyser ignition interlock device

Engine management - 11-litre engine control (Euro III and Euro V)



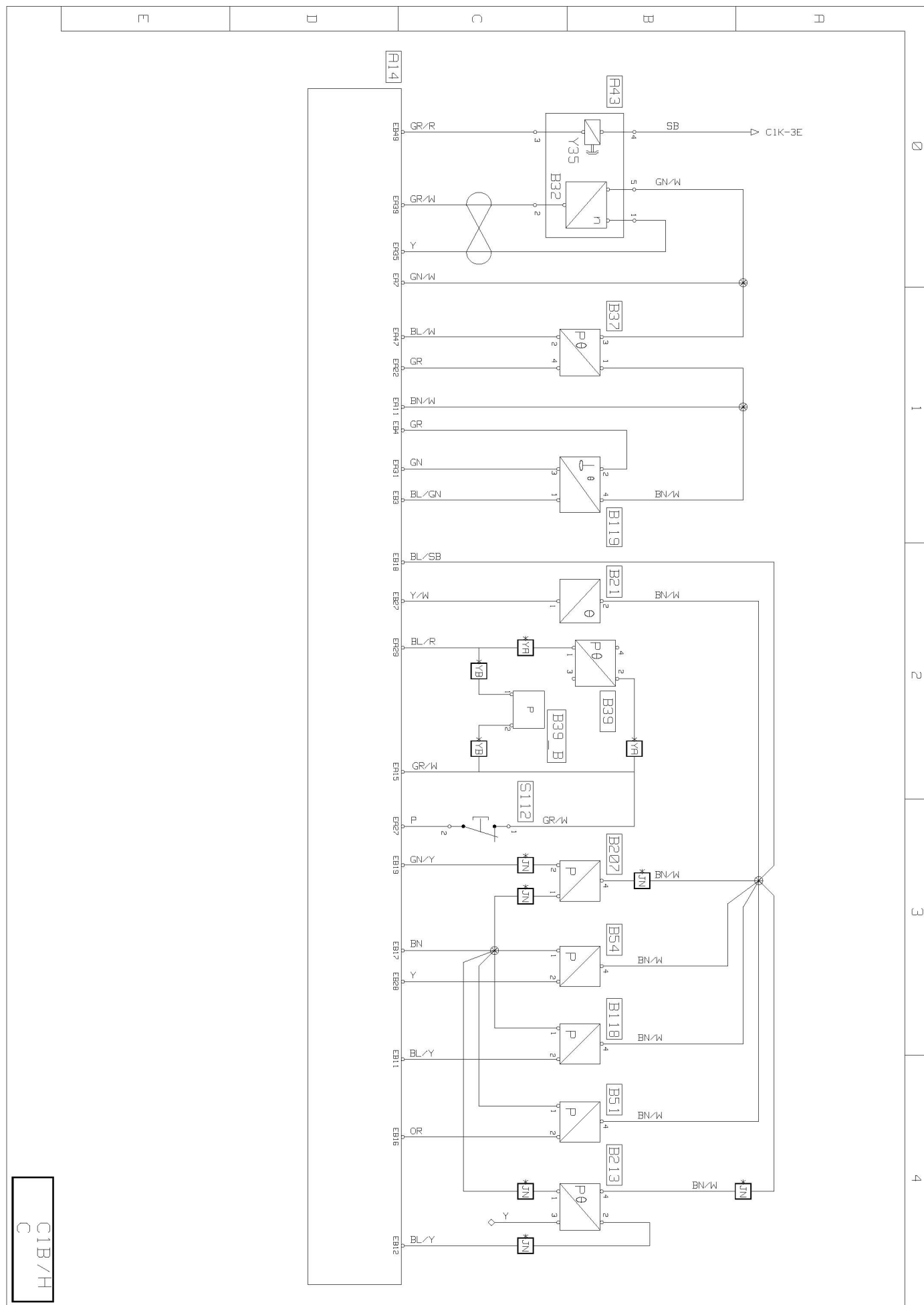
Engine management - 11-litre engine control (Euro III and Euro V)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A45	Fuel heating unit	B3d
B21	Engine coolant circuit temperature sensor	B3d
B51	Engine boost pressure sensor	B3d
B52	Water in fuel sensor	B3d
B54	Pressure sensor inside engine block	B3d
B118	Engine oil pressure sensor	B3d
B207	Piston cooling oil pressure sensor	B3d
R10	Fuel heater resistor no. 2	B3d
S68	Engine coolant level sensor	B3d
Y37	Solenoid valve assembly for exhaust braking	B3d
Y38	Dryer bleed solenoid valve	B3d
Y39	VTC engine brake solenoid valve	B3d
Y110	Oil cooling solenoid valve	B3d
Y111	Piston cooling solenoid valve	B3d

JN : vehicles compliant with **Euro V** standards

Engine management - 13-litre engine control (Euro III and Euro V)



Engine management - 13-litre engine control (Euro III and Euro V)

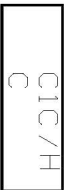
Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A43	Engine fan speed regulator unit	B3d
B21	Engine coolant circuit temperature sensor	B3d
B32	Engine cooling fan speed sensor	B3d
B37	Turbocharging circuit air pressure and temperature sensors assembly	B3d
B39	Air filter pressure and temperature sensor	B3d
B39_B	Air filter pressure sensor	B3d
B51	Engine boost pressure sensor	B3d
B54	Pressure sensor inside engine block	B3d
B118	Engine oil pressure sensor	B3d
B119	Engine oil level and temperature sensor assembly	B3d
B207	Piston cooling oil pressure sensor	B3d
B213	Exhaust back-pressure sensor	B3d
S112	Engine shut down control	B3d
Y35	Engine cooling fan speed regulation solenoid valve	B3d

JN : vehicles compliant with **Euro V** standards

YA : for vehicles manufactured before **30/11/2014**

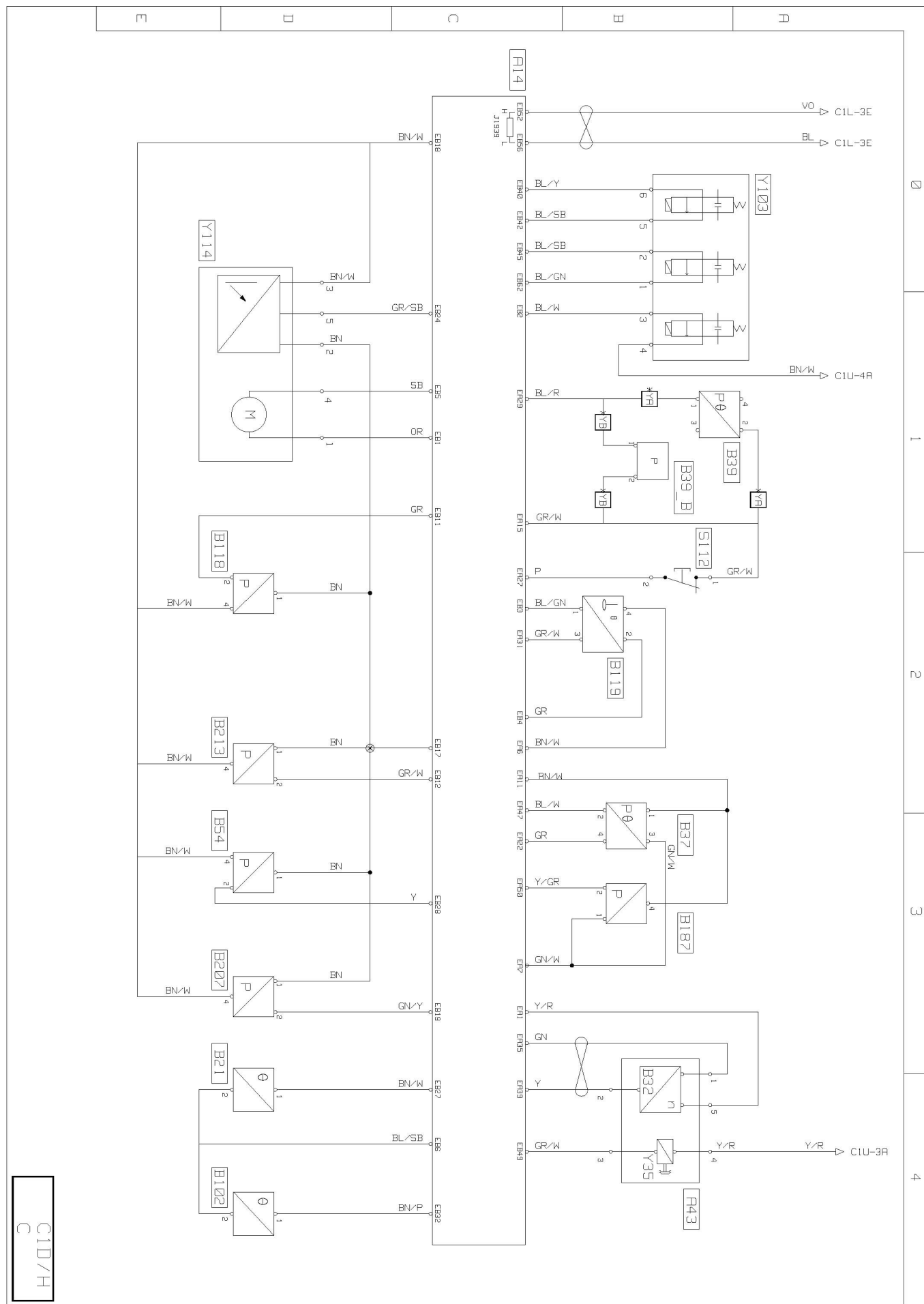
YB : for vehicles manufactured after **01/12/2014**



Engine management - 11-litre engine control (Euro VI)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
B54	Pressure sensor inside engine block	B3d
B102	Oil temperature sensor on oil filter holder	B3d
B118	Engine oil pressure sensor	B3d
B119	Engine oil level and temperature sensor assembly	B3d
B207	Piston cooling oil pressure sensor	B3d
B231	Engine coolant circuit temperature sensor	B3d
B260	Exhaust back-pressure sensor	B3d
S68	Engine coolant level sensor	B3d
Y39	VTC engine brake solenoid valve	B3d
Y103	Exhaust injector solenoid valve	B3d
Y110	Oil cooling solenoid valve	B3d
Y111	Piston cooling solenoid valve	B3d
Y114	Air flow regulation solenoid valve	B3d
Y148	Exhaust gas recirculation solenoid valve	B3d
Y151	Solenoid valve assembly for exhaust braking	B3d



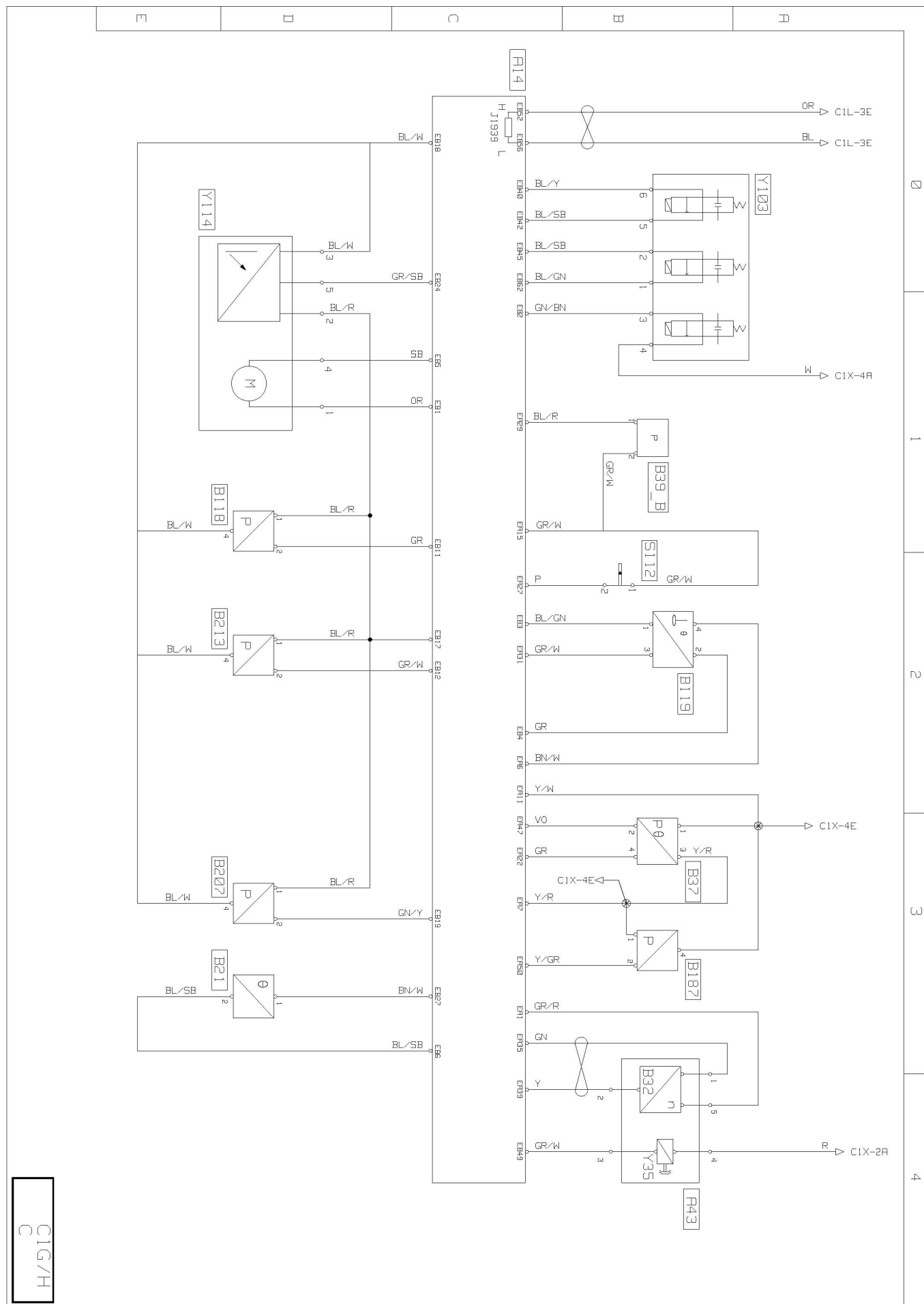
Engine management - 13-litre engine check (Euro VI) - Phase 1 (OBDEP-A)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A43	Engine fan speed regulator unit	B3d
B21	Engine coolant circuit temperature sensor	B3d
B32	Engine cooling fan speed sensor	B3d
B37	Turbocharging circuit air pressure and temperature sensors assembly	B3d
B39	Air filter pressure and temperature sensor	B3d
B39_B	Air filter pressure sensor	B3d
B54	Pressure sensor inside engine block	B3d
B102	Oil temperature sensor on oil filter holder	B3d
B118	Engine oil pressure sensor	B3d
B119	Engine oil level and temperature sensor assembly	B3d
B187	Diesel fuel pressure sensor for exhaust injector	B3d
B207	Piston cooling oil pressure sensor	B3d
B213	Exhaust back-pressure sensor	B3d
S112	Engine shut down control	B3d
Y35	Engine cooling fan speed regulation solenoid valve	B3d
Y103	Exhaust injector solenoid valve	B3d
Y114	Air flow regulation solenoid valve	B3d

YA : for vehicles manufactured before **30/11/2014**

YB : for vehicles manufactured after **01/12/2014**



Engine management - 13-litre engine check (Euro VI) - Phase 2 (OBDEP-C)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A43	Engine fan speed regulator unit	B3d
B21	Engine coolant circuit temperature sensor	B3d
B32	Engine cooling fan speed sensor	B3d
B37	Turbocharging circuit air pressure and temperature sensors assembly	B3d
B39_B	Air filter pressure sensor	B3d
B118	Engine oil pressure sensor	B3d
B119	Engine oil level and temperature sensor assembly	B3d
B187	Diesel fuel pressure sensor for exhaust injector	B3d
B207	Piston cooling oil pressure sensor	B3d
B213	Exhaust back-pressure sensor	B3d
S112	Engine shut down control	B3d
Y35	Engine cooling fan speed regulation solenoid valve	B3d
Y103	Exhaust injector solenoid valve	B3d
Y114	Air flow regulation solenoid valve	B3d



Engine management – Interface between engine and vehicle (Euro III and Euro V)

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A182	Diesel fuel primary filter dryer and heater unit	A4c
A187	Main vehicle management control unit (VMCU)	B2b
K27	Engine management control unit power supply relay	B2b

CQ : with 11 l engine

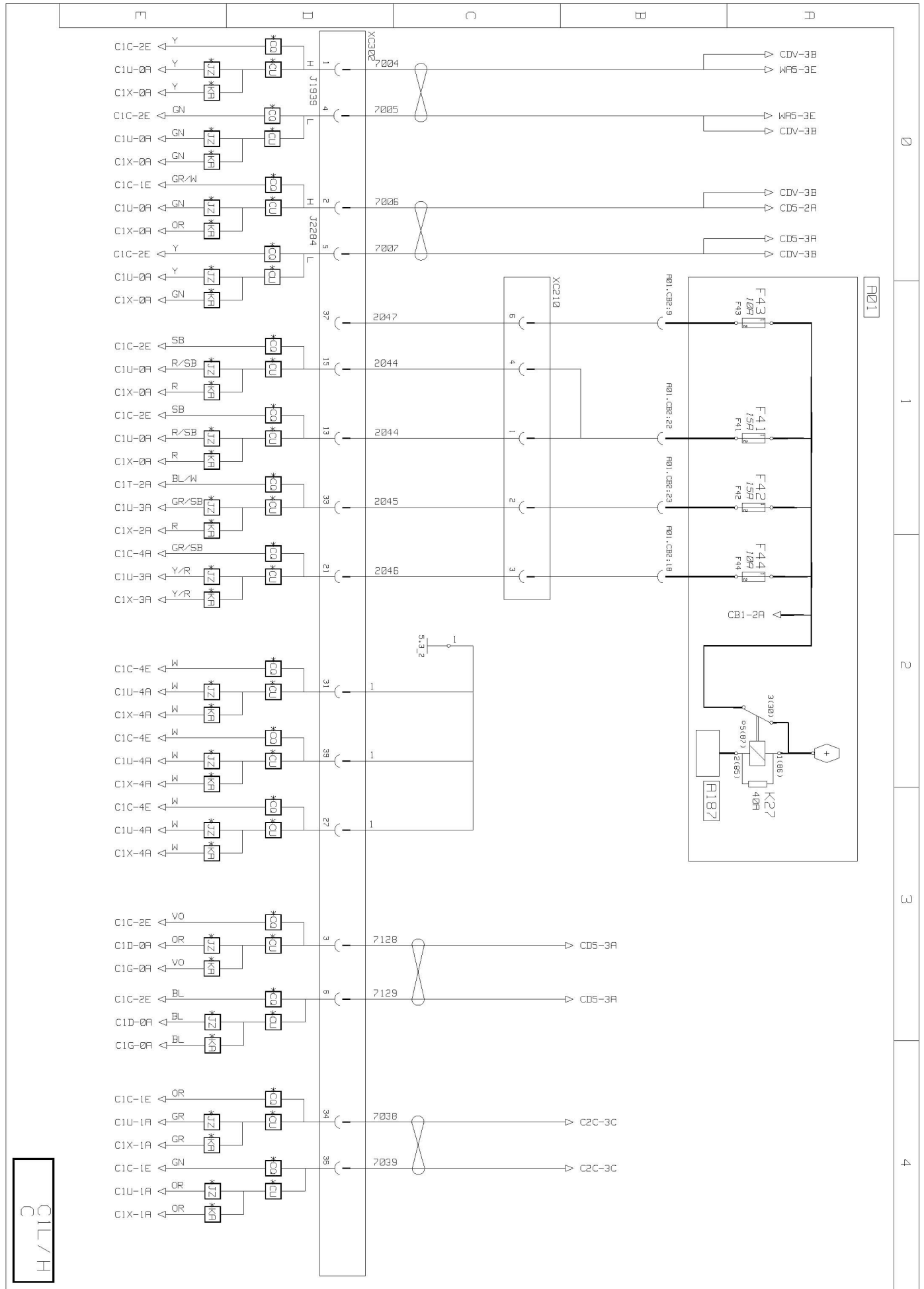
CU : with 13 l engine

JM : vehicles compliant with **Euro III** standards

JN : vehicles compliant with **Euro V** standards

	Direct after battery power supply.
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Engine management – Interface between engine and vehicle (Euro VI)



Engine management – Interface between engine and vehicle (Euro VI)

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
K27	Engine management control unit power supply relay	B2b

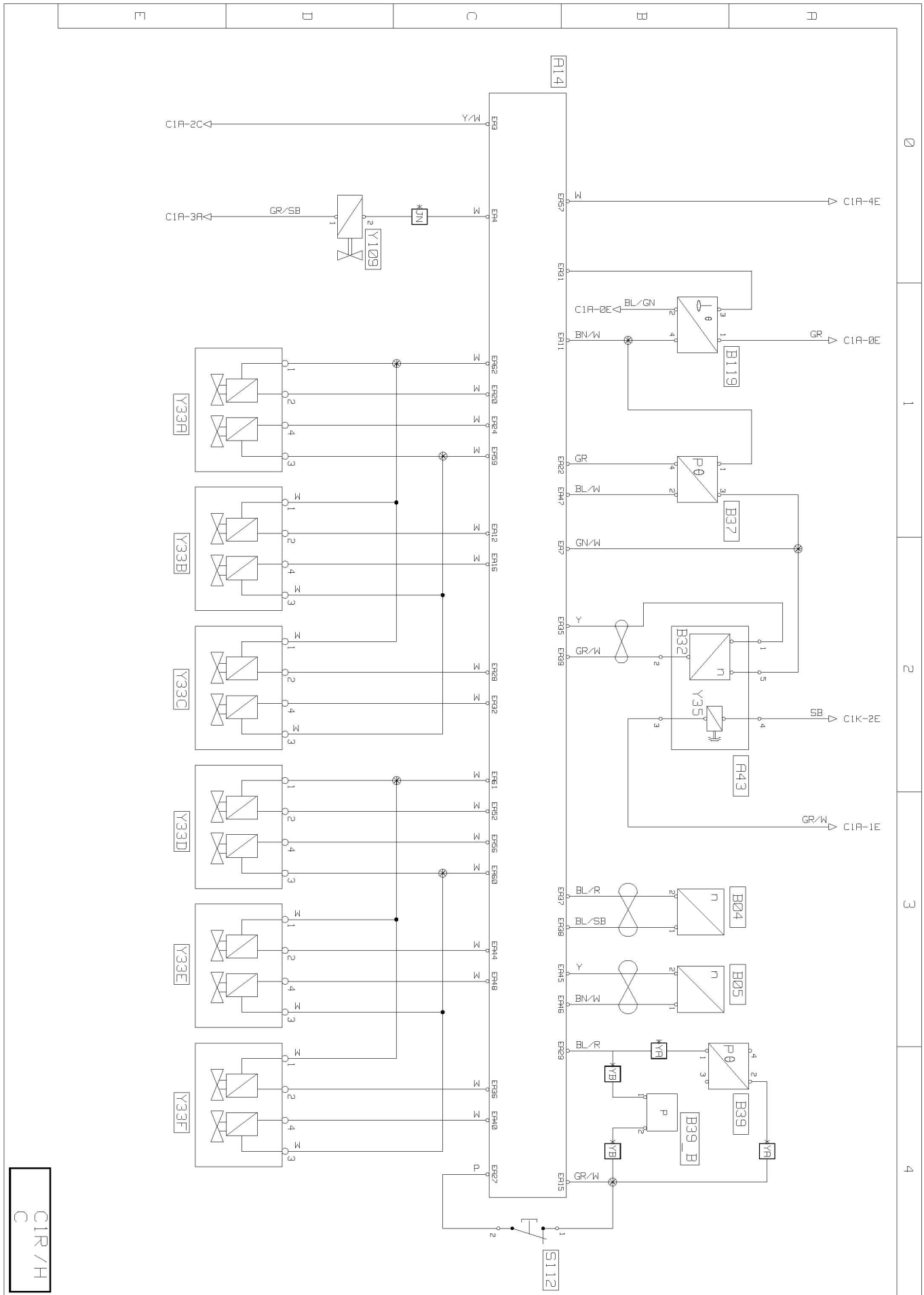
CQ : with 11 l engine

CU : with 13 l engine

JZ : Euro VI Phase 1 – OBDEP-A

KA : Euro VI Phase 2 – OBDEP-C

	Direct after battery power supply.
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Engine management - 11-litre engine injection control (Euro III and Euro V)

Key to devices

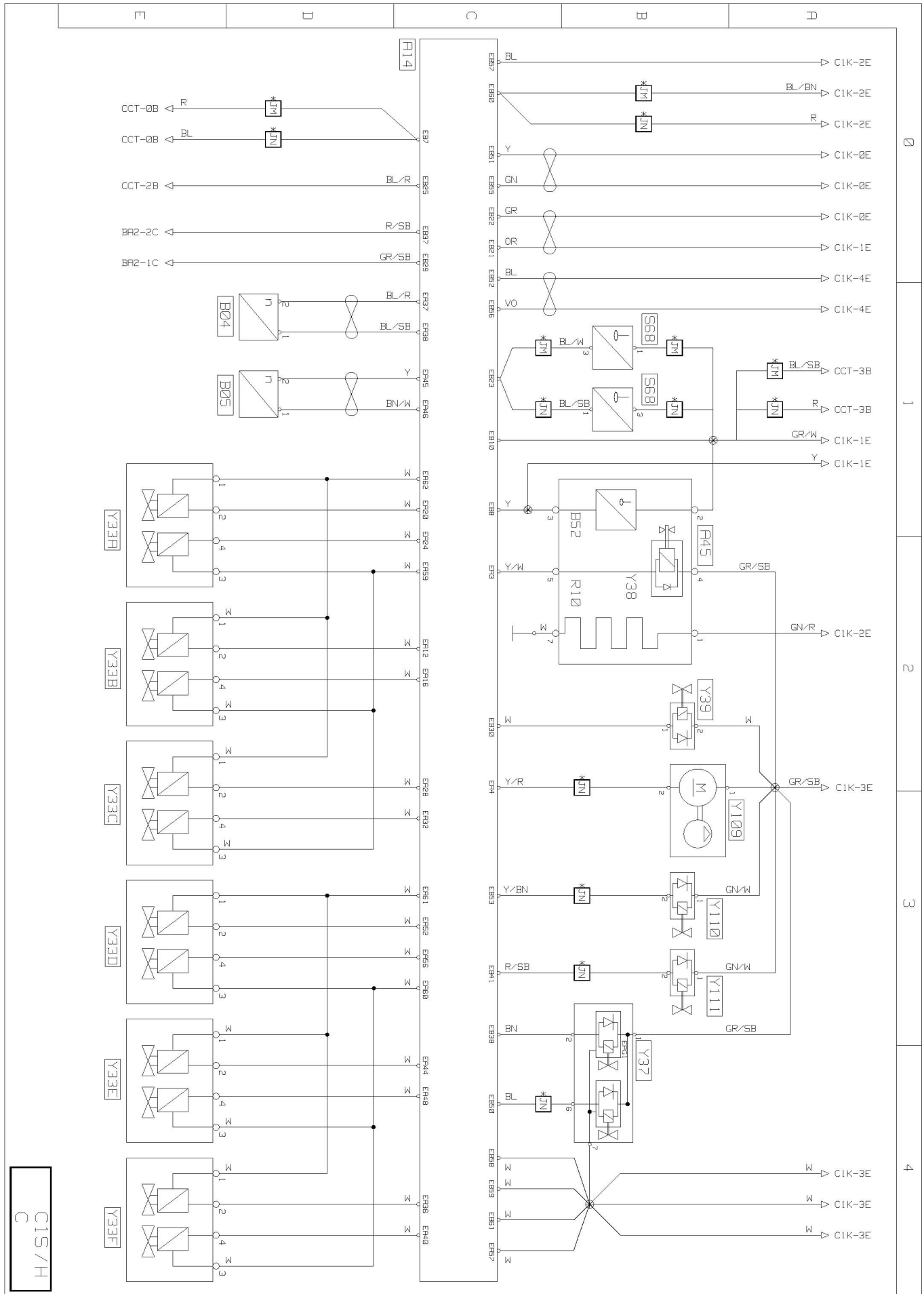
Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A43	Engine fan speed regulator unit	B3d
B04	Engine speed sensor on engine flywheel	B3d
B05	Engine speed sensor on camshaft	B3d
B32	Engine cooling fan speed sensor	B3d
B37	Turbocharging circuit air pressure and temperature sensors assembly	B3d
B39	Air filter pressure and temperature sensor	B3d
B119	Engine oil level and temperature sensor assembly	B3d
S112	Engine shut down control	B3d
Y33A	No. 1 cylinder injector solenoid valve	B3d
Y33B	No. 2 cylinder injector solenoid valve	B3d
Y33C	No. 3 cylinder injector solenoid valve	B3d
Y33D	No. 4 cylinder injector solenoid valve	B3d
Y33E	No. 5 cylinder injector solenoid valve	B3d
Y33F	No. 6 cylinder injector solenoid valve	B3d
Y35	Engine cooling fan speed regulation solenoid valve	B3d
Y109	Water pump electromagnetic clutch	B3d

JN : vehicles compliant with **Euro V** standards

YA : for vehicles manufactured before **30/11/2014**

YB : for vehicles manufactured after **01/12/2014**

Engine management - 13-litre engine injection control (Euro III and Euro V)



Engine management - 13-litre engine injection control (Euro III and Euro V)

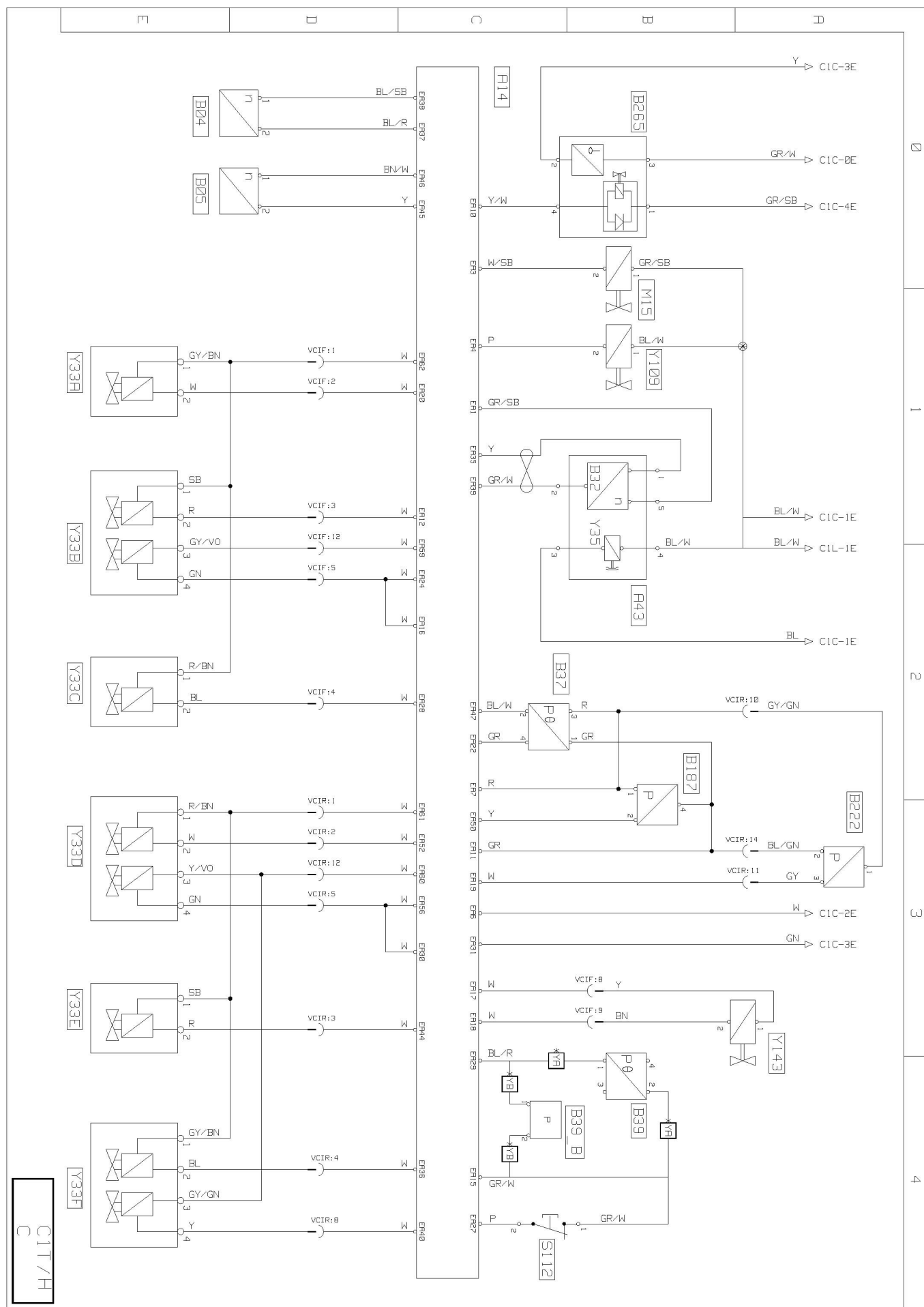
Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A45	Fuel heating unit	B3d
B04	Engine speed sensor on engine flywheel	B3d
B05	Engine speed sensor on camshaft	B3d
B52	Water in fuel sensor	B3d
R10	Fuel heater resistor no. 2	B3d
S68	Engine coolant level sensor	B3d
Y33A	No. 1 cylinder injector solenoid valve	B3d
Y33B	No. 2 cylinder injector solenoid valve	B3d
Y33C	No. 3 cylinder injector solenoid valve	B3d
Y33D	No. 4 cylinder injector solenoid valve	B3d
Y33E	No. 5 cylinder injector solenoid valve	B3d
Y33F	No. 6 cylinder injector solenoid valve	B3d
Y37	Solenoid valve assembly for exhaust braking	B3d
Y38	Dryer bleed solenoid valve	B3d
Y39	VTC engine brake solenoid valve	B3d
Y109	Water pump electromagnetic clutch	B3d
Y110	Oil cooling solenoid valve	B3d
Y111	Piston cooling solenoid valve	B3d

JM : vehicles compliant with **Euro III** standards

JN : vehicles compliant with **Euro V** standards

Engine management - 11-litre engine injection control (Euro VI)



T3136025

Engine management - 11-litre engine injection control (Euro VI)

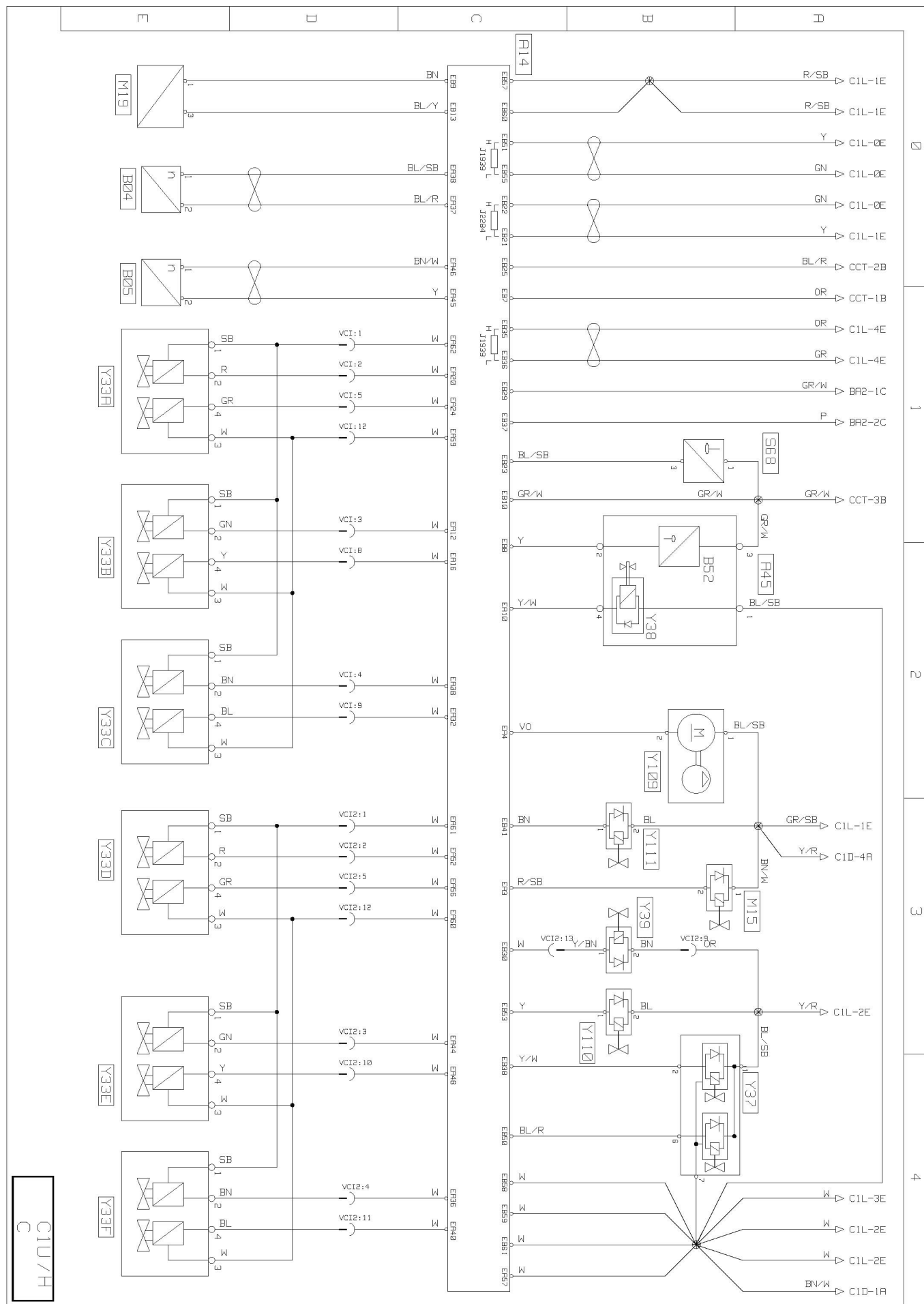
Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A43	Engine fan speed regulator unit	B3d
B04	Engine speed sensor on engine flywheel	B3d
B05	Engine speed sensor on camshaft	B3d
B32	Engine cooling fan speed sensor	B3d
B37	Turbocharging circuit air pressure and temperature sensors assembly	B3d
B39	Air filter pressure and temperature sensor	B3d
B39_B	Air filter pressure sensor	B3d
B187	Diesel fuel pressure sensor for exhaust injector	B3d
B222	Rail fuel high pressure sensor	B3d
B265	Fuel heating unit	B3d
M15	Electric fuel priming pump	B3d
S112	Engine shut down control	B3d
Y33A	No. 1 cylinder injector solenoid valve	B3d
Y33B	No. 2 cylinder injector solenoid valve	B3d
Y33C	No. 3 cylinder injector solenoid valve	B3d
Y33D	No. 4 cylinder injector solenoid valve	B3d
Y33E	No. 5 cylinder injector solenoid valve	B3d
Y33F	No. 6 cylinder injector solenoid valve	B3d
Y35	Engine cooling fan speed regulation solenoid valve	B3d
Y109	Water pump electromagnetic clutch	B3d
Y143	Rail high pressure regulation solenoid valve	B3d

YA : for vehicles manufactured before **30/11/2014**

YB : for vehicles manufactured after **01/12/2014**

Engine management - 13-litre engine injection check (Euro VI) - Phase 1 (OBDEP-A)



Engine management - 13-litre engine injection check (Euro VI) - Phase 1 (OBDEP-A)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A45	Fuel heating unit	B3d
B04	Engine speed sensor on engine flywheel	B3d
B05	Engine speed sensor on camshaft	B3d
B52	Water in fuel sensor	B3d
M15	Electric fuel priming pump	B3d
M19	Exhaust gas recirculation solenoid valve	B3d
S68	Engine coolant level sensor	B3d
Y33A	No. 1 cylinder injector solenoid valve	B3d
Y33B	No. 2 cylinder injector solenoid valve	B3d
Y33C	No. 3 cylinder injector solenoid valve	B3d
Y33D	No. 4 cylinder injector solenoid valve	B3d
Y33E	No. 5 cylinder injector solenoid valve	B3d
Y33F	No. 6 cylinder injector solenoid valve	B3d
Y37	Solenoid valve assembly for exhaust braking	B3d
Y38	Dryer bleed solenoid valve	B3d
Y39	VTC engine brake solenoid valve	B3d
Y109	Water pump electromagnetic clutch	B3d
Y110	Oil cooling solenoid valve	B3d
Y111	Piston cooling solenoid valve	B3d

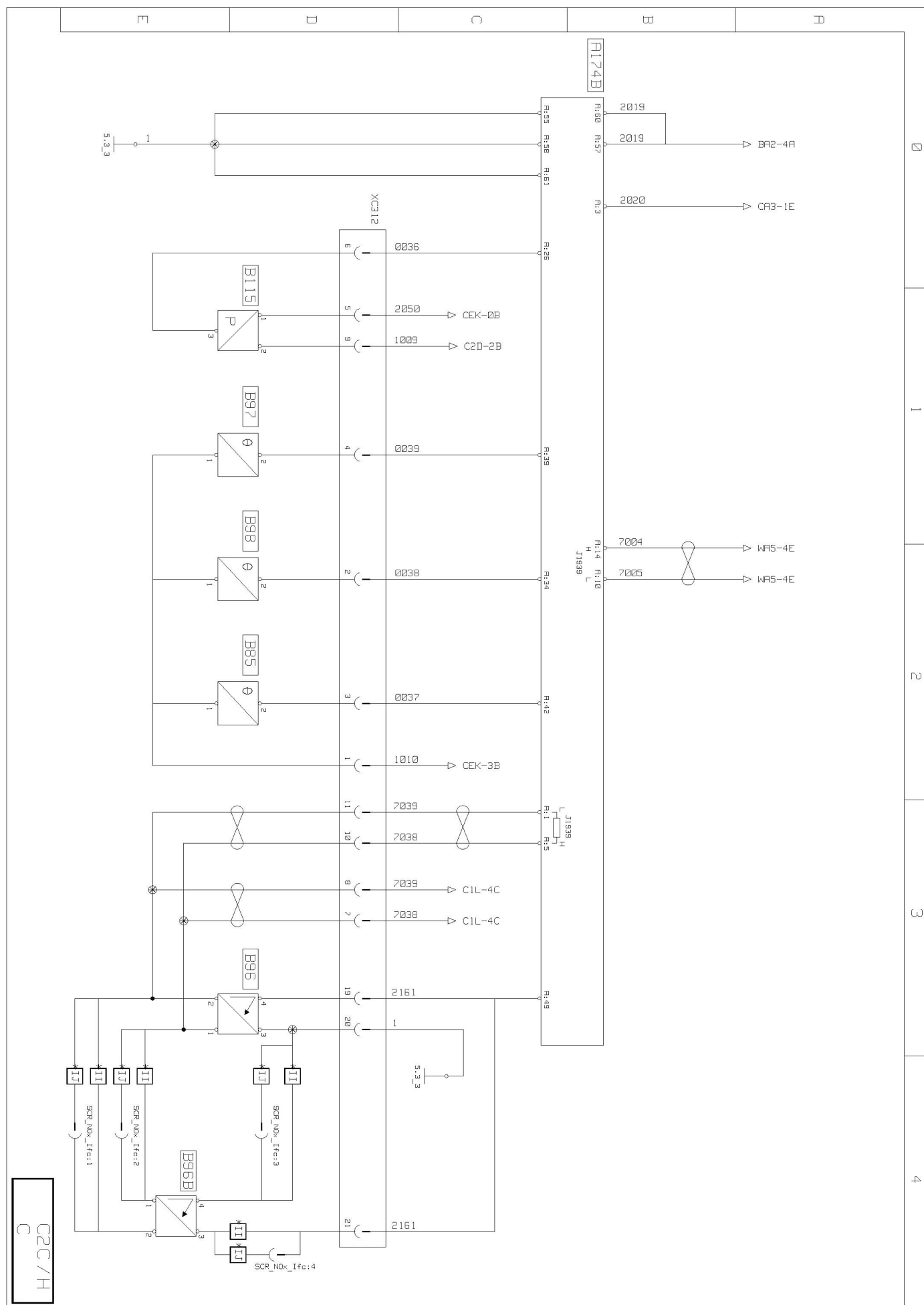


Engine management - 13-litre engine injection check (Euro VI) - Phase 2 (OBDEP-C)

Key to devices

Code	Function description	Location
A14	Engine electronic control unit (EECU)	B3d
A45	Fuel heating unit	B3d
B04	Engine speed sensor on engine flywheel	B3d
B05	Engine speed sensor on camshaft	B3d
B52	Water in fuel sensor	B3d
B222	Rail fuel high pressure sensor	B3d
M15	Electric fuel priming pump	B3d
S68	Engine coolant level sensor	B3d
Y33A	No. 1 cylinder injector solenoid valve	B3d
Y33B	No. 2 cylinder injector solenoid valve	B3d
Y33C	No. 3 cylinder injector solenoid valve	B3d
Y33D	No. 4 cylinder injector solenoid valve	B3d
Y33E	No. 5 cylinder injector solenoid valve	B3d
Y33F	No. 6 cylinder injector solenoid valve	B3d
Y34	Exhaust gas recirculation solenoid valve	B3d
Y37	Solenoid valve assembly for exhaust braking	B3d
Y38	Dryer bleed solenoid valve	B3d
Y39	VTC engine brake solenoid valve	B3d
Y109	Water pump electromagnetic clutch	B3d
Y110	Oil cooling solenoid valve	B3d
Y111	Piston cooling solenoid valve	B3d
Y143	Rail high pressure regulation solenoid valve	B3d

Engine management - Urea supply 1/2 (Euro VI)



Engine management - Urea supply 1/2 (Euro VI)

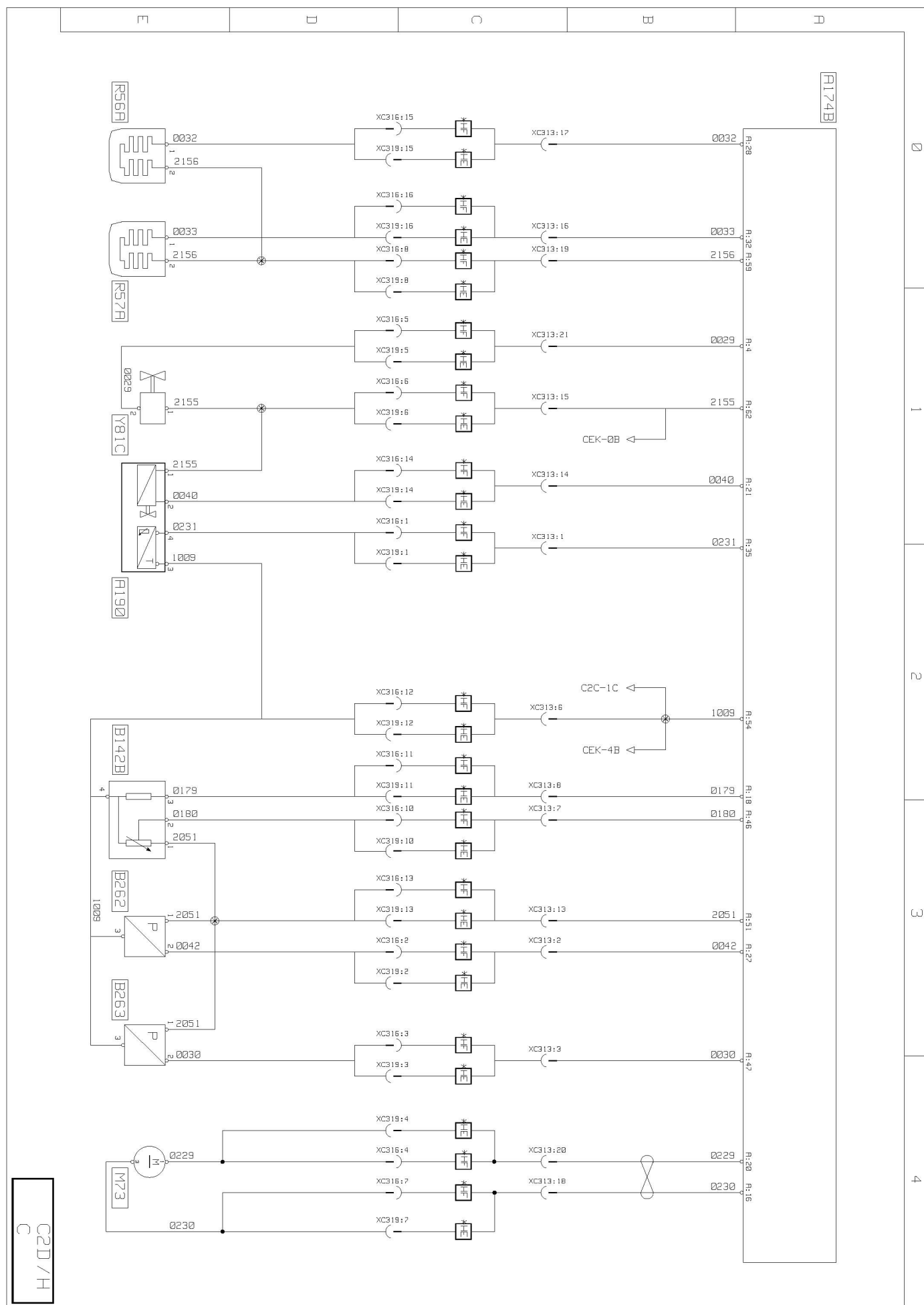
Key to devices

Code	Function description	Location
A174B	Exhaust gas after-treatment control module (ACM)	B6d
B85	Exhaust gas temperature sensor upstream of particulate filter	A5d
B96	Nitrogen oxide concentration sensor	A5d
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	A5d
B97	Exhaust gas temperature sensor upstream of catalytic converter	A5d
B98	Exhaust gas temperature sensor downstream of catalytic converter	A5d
B115	Exhaust gases relative pressure sensor in the particulate filter	A5d

II : with horizontal catalytic converter

IJ : with vertical catalytic converter

Engine management - Urea supply 2/2 (Euro VI)



Engine management - Urea supply 2/2 (Euro VI)

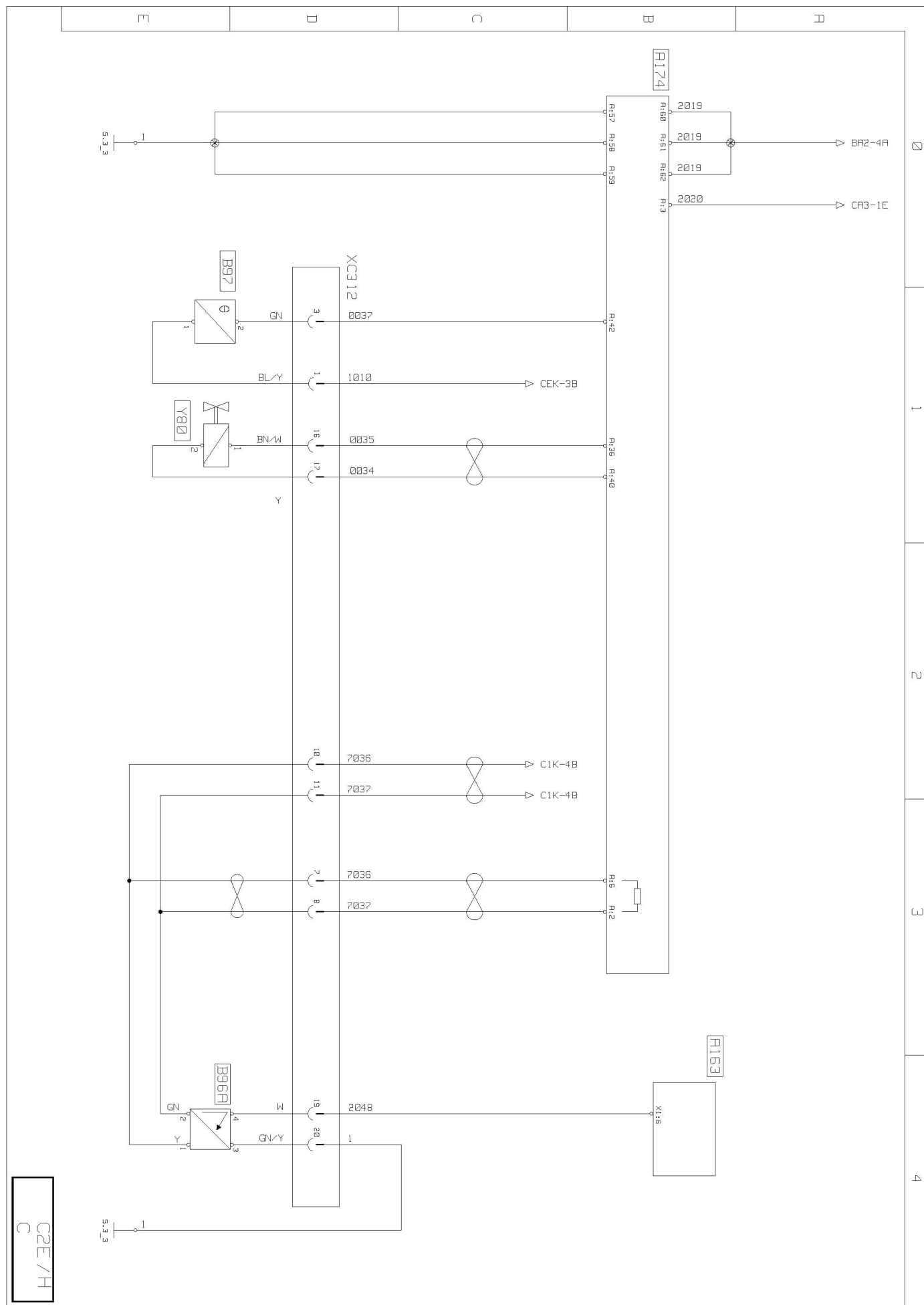
Key to devices

Code	Function description	Location
A174B	Exhaust gas after-treatment control module (ACM)	B6d
A190	Air control solenoid and urea temperature sensor assembly	A5d/C5d
B142B	Urea tank temperature and level sensor assembly	A5d/C5d
B262	Urea pressure sensor	A5d/C5d
B263	Air pressure sensor inside the urea tank	A5d/C5d
M73	Urea supply metering pump	A5d/C5d
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	A5d/C5d
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	A5d/C5d
Y81C	Cooling solenoid valve for the urea	A5d/C5d

HE : with urea tank on the left-hand side

HF : with urea tank on the right-hand side

Engine management - Urea supply 1/2 (Euro V)



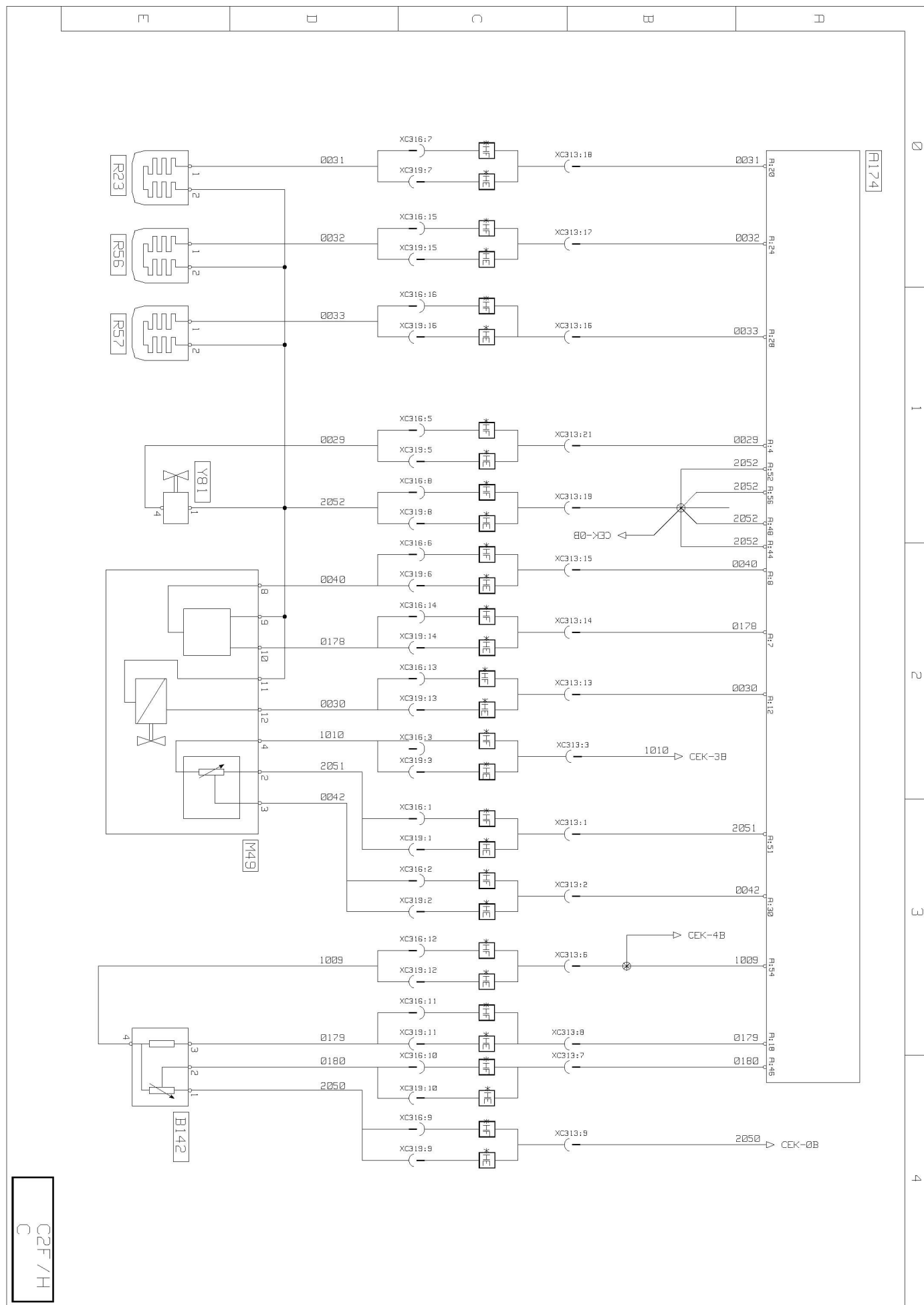
C2E/H
C

Engine management - Urea supply 1/2 (Euro V)

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
A174	Exhaust gas after-treatment control module (ACM)	B6d
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	A5d
B97	Exhaust gas temperature sensor upstream of catalytic converter	A5d
Y80	Urea supply metering solenoid valve	A5d/C5d

Engine management - Urea supply 2/2 (Euro V)



C2F/H
C

Engine management - Urea supply 2/2 (Euro V)

Key to devices

Code	Function description	Location
A174	Exhaust gas after-treatment control module (ACM)	B6d
B142	Urea tank temperature and level sensor assembly	A5d/C5d
M49	Urea supply pump module assembly	A5d/C5d
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	A5d/C5d
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	A5d/C5d
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	A5d/C5d
Y81	Cooling solenoid valve for the urea	A5d/C5d

HE : with urea tank on the left-hand side

HF : with urea tank on the right-hand side



Vehicle management - Main ECU

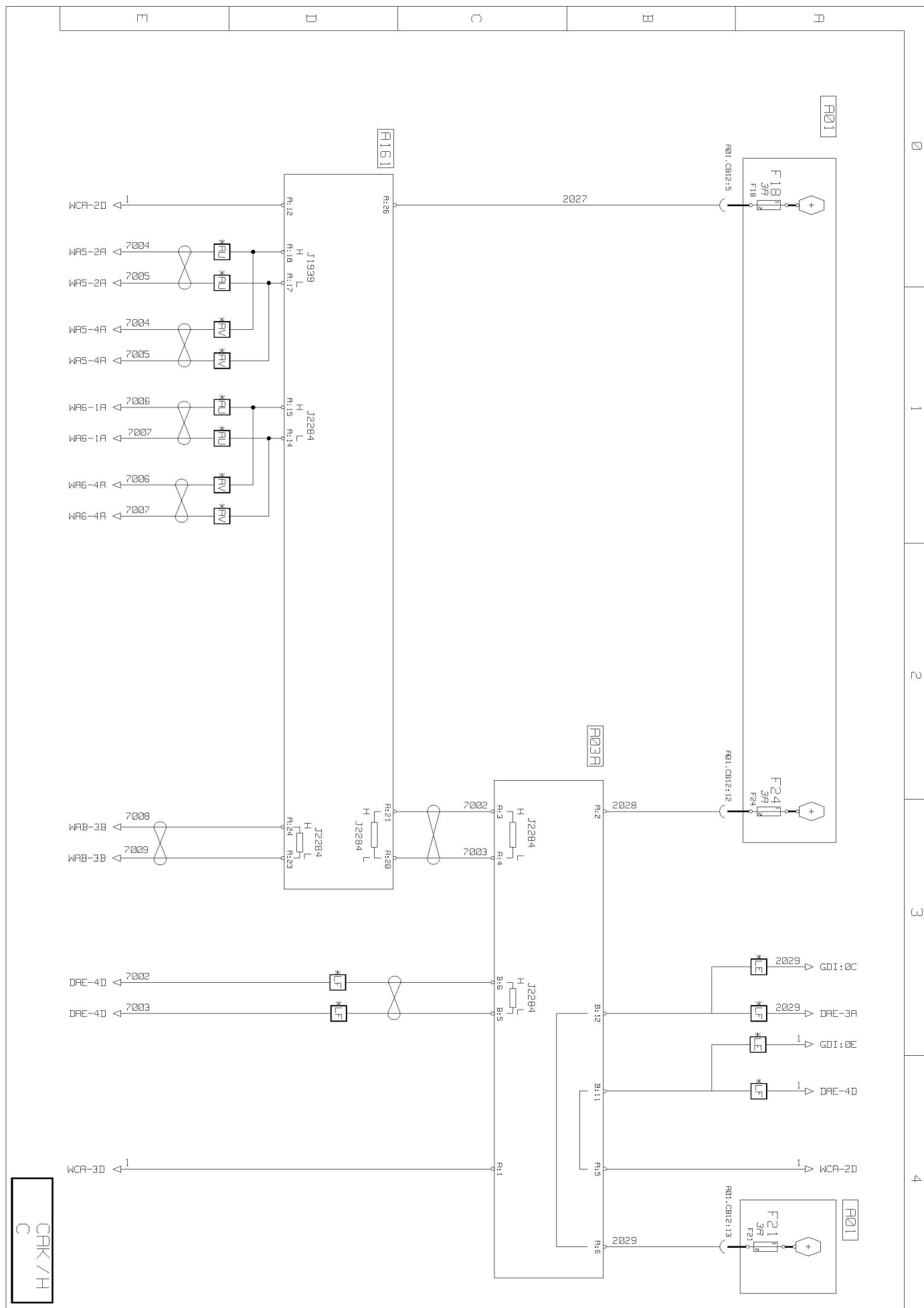
Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
B25	Accelerator pedal position sensor	C1c
B26	Clutch pedal position sensor	C1c
S58B	Clutch pedal position sensor	C1c
S105	Hazard lights control	B2b
X43	Vehicle diagnostic socket (OBD)	C2c

- GA** : with fuel heating equipment
- GC** : with clutch pedal position all-or-nothing sensor
- GD** : with clutch pedal position analogue sensor
- IL** : with main beam headlights
- IM** : with on-site headlights
- JN** : vehicles compliant with **Euro V** standards
- JO** : vehicles compliant with **Euro VI** standards
- YK** : for vehicles manufactured after **2017/03/12**
- YL** : for vehicles manufactured before **2017/03/12**



Direct after battery power supply.



Vehicle management – Main information display

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A03A	Main information display	C2b
A161	Man/machine interface management control unit (HMIIOM)	B2c

AU : left-hand drive

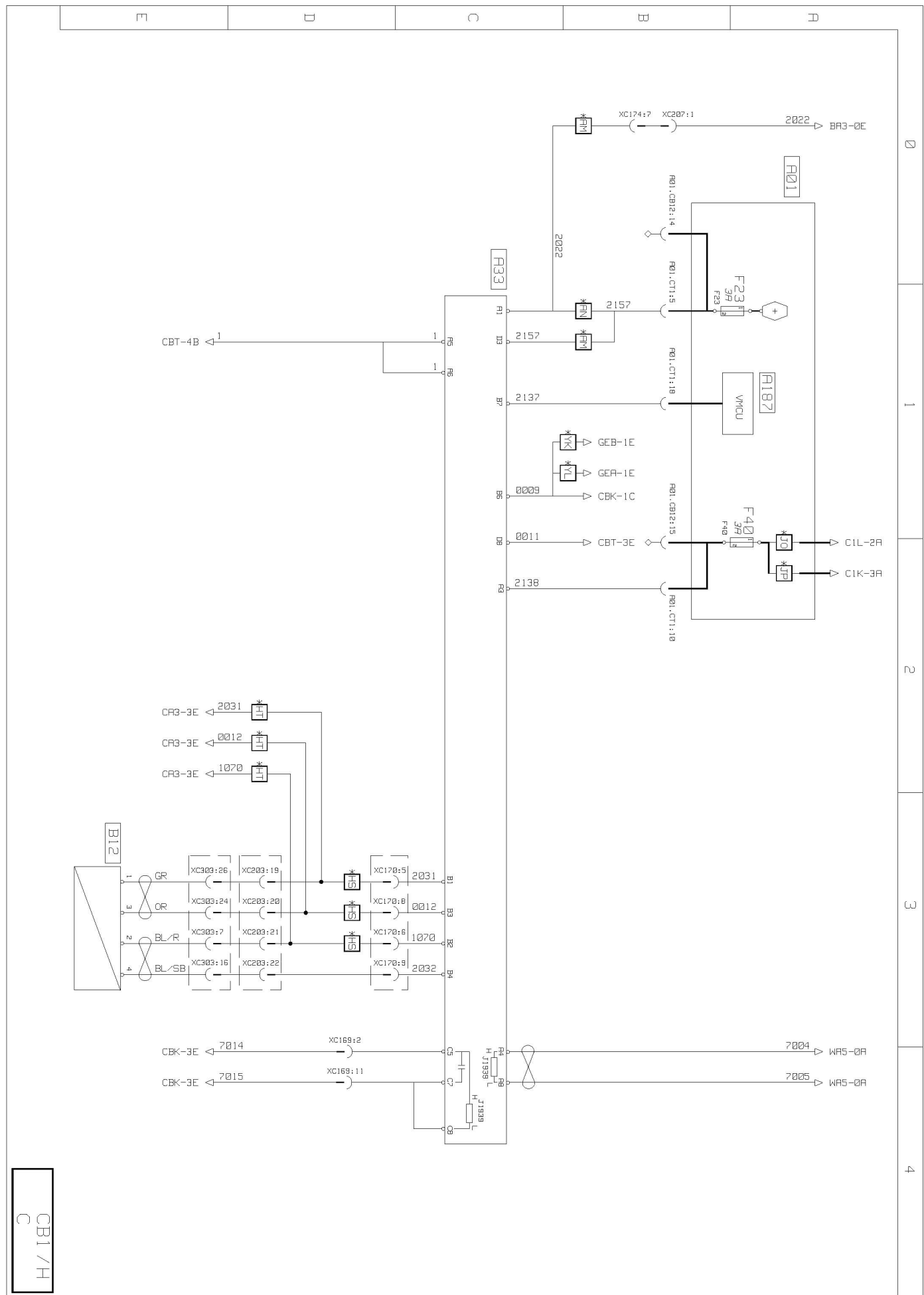
AV : right-hand drive

THE : with entertainment service module

LF : with audio system module

	Direct after battery power supply.
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Vehicle management – Tachograph



Vehicle management – Tachograph

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A33	Tachograph	C2a
A187	Main vehicle management control unit (VMCU)	B2b
B12	Tachograph vehicle speed sensor	B4d

AM : with **ADR** equipment

YE-AR : without **ADR** equipment

HS : with tachograph

HT : without tachograph

JO : vehicles compliant with **Euro VI** standards

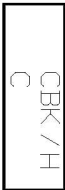
JP : vehicles compliant with **Euro III** and **Euro V** standards

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**



Direct after battery power supply.



Vehicle management – Fleet management – Pre-equipment

Key to devices

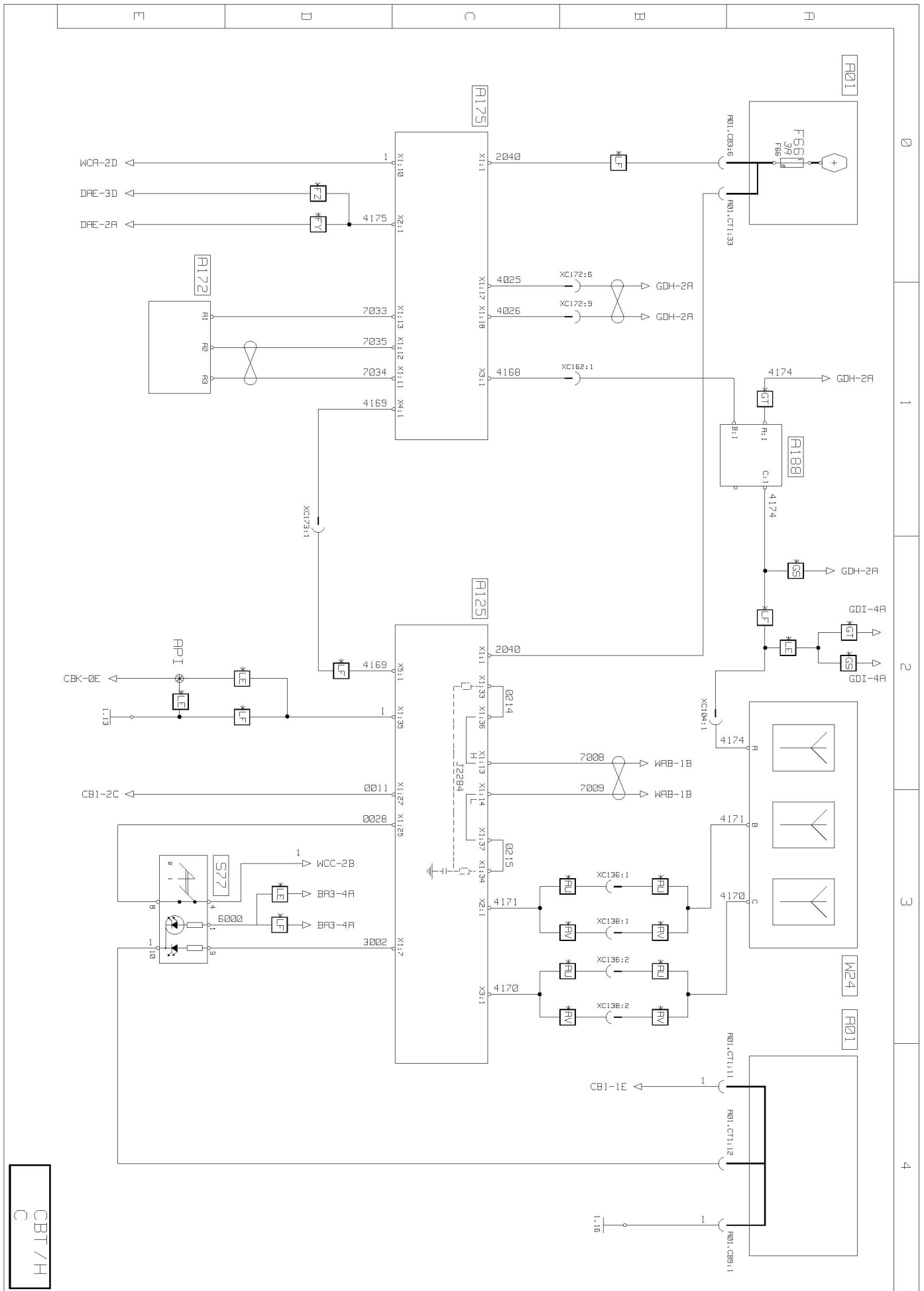
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A122	Remote payment system management control unit	C2a
A123	Remote payment system transmitter	C2a
A187	Main vehicle management control unit (VMCU)	B2b
K22	Starter relay	B2b
W27	GPS antenna	A3a
X26	Onboard management pre-arrangement (ECU)	B2c

AU : left-hand drive

AV : right-hand drive

LE : with entertainment service module

	Direct after battery power supply.
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Vehicle management - Fleet management - Telematics

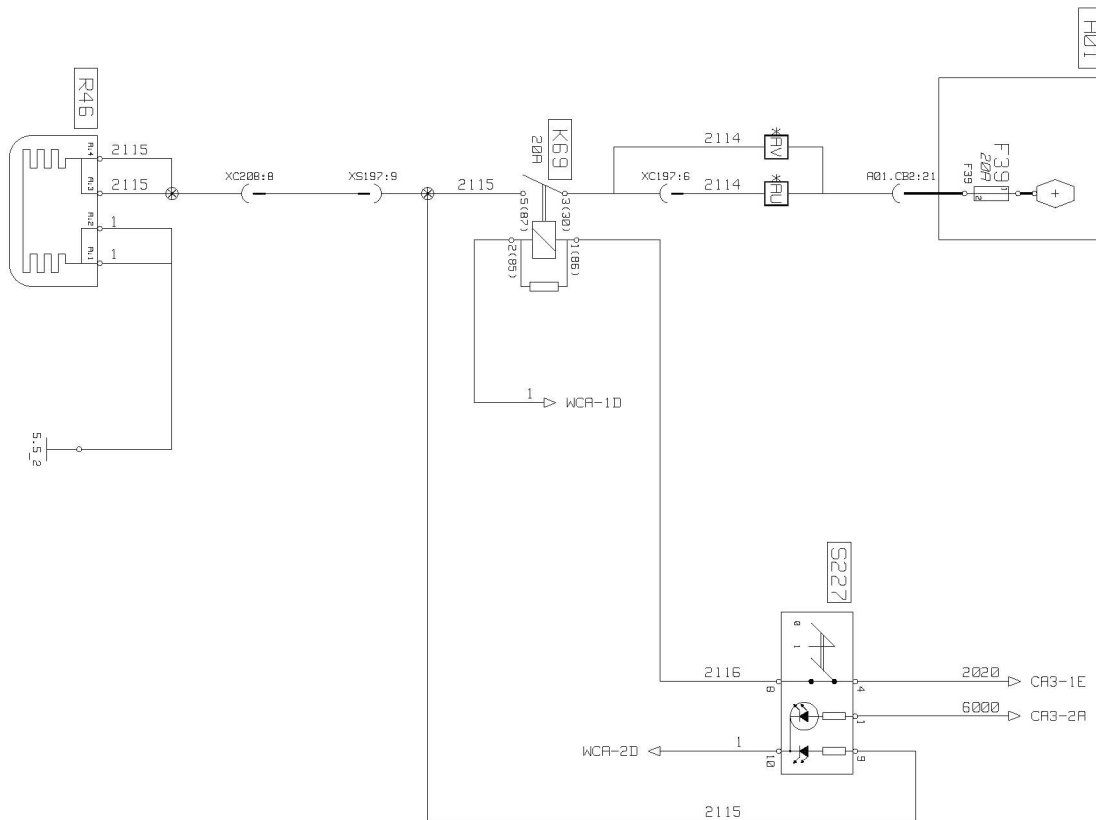
Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A125	On-board management system interface control unit	B1a
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	B2c
A175	Additional telematics management control unit (TESP)	B2c
A188	FM signal distributor	C1a
S77	Emergency call control	B2b
W24	Satellite antenna and radio set	A2a

- AU** : left-hand drive
AV : right-hand drive
FY : with video control unit
FZ : without video control unit
GS : without supplementary telematics management control unit
GT : with supplementary telematics management control unit
LE : with entertainment service module
LF : with audio system module

	Direct after battery power supply.
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Engine management - Fuel heating



CCL/H
C

Engine management - Fuel heating

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
K69	Fuel heating resistor power supply relay	B2b
R46	Fuel heating resistor	A5d/C5d
S227	Fuel heating control	C2c

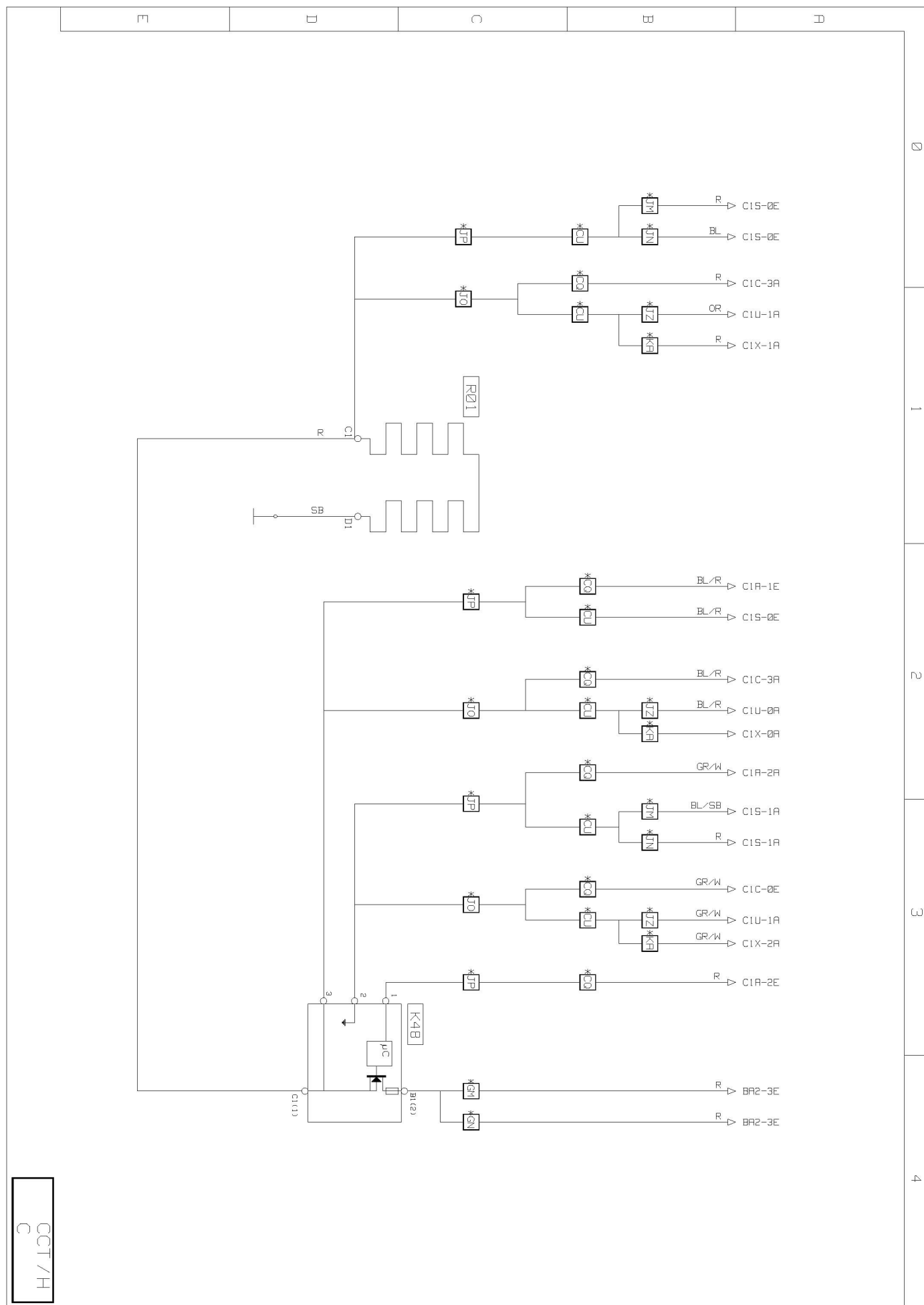
AU : left-hand drive

AV : right-hand drive



Direct after battery power supply.

Engine management – Engine preheating



Engine management – Engine preheating

Key to devices

Code	Function description	Location
K48	Intake air preheating power supply relay	B3d
R01	Intake air preheating resistor	B3d

CQ : with **11 l** engine

CU : with **13 l** engine

GM : **Bosch** alternator

GN : **Melco** alternator

JM : vehicles compliant with **Euro III** standards

JN : vehicles compliant with **Euro V** standards

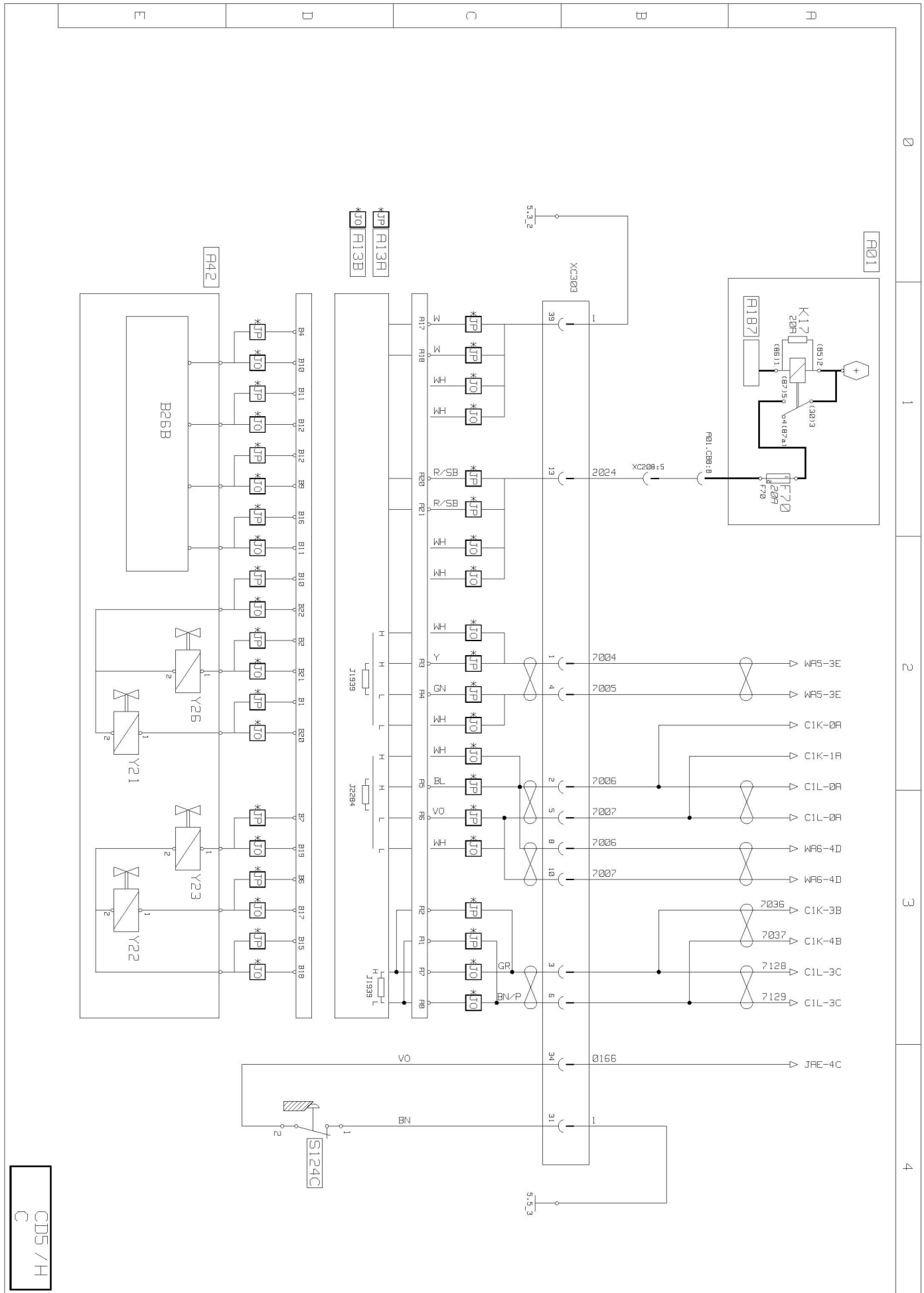
JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

JZ : **Euro VI** Phase 1 – **OBDEP-A**

KA : **Euro VI** Phase 2 – **OBDEP-C**

Gearbox management – Automated Manual Transmission



CDS / H
C

Gearbox management – Automated Manual Transmission

Key to devices

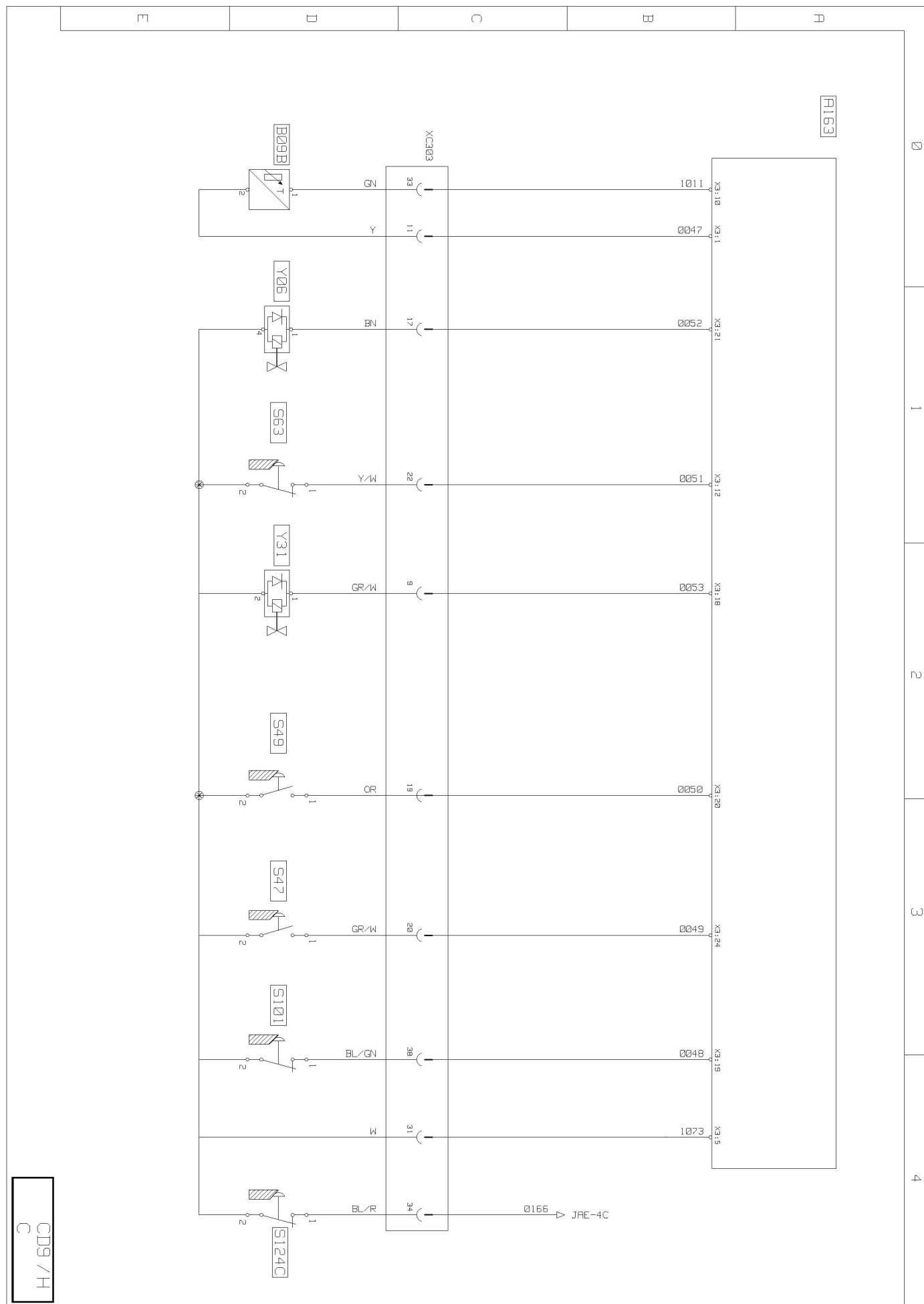
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A13A	Automated manual transmission management control unit	B4d
A13B	Automated manual transmission management control unit	B4d
A42	Clutch control apparatus assembly	B4d
A187	Main vehicle management control unit (VMCU)	B2b
B26B	Clutch position sensor (on gearbox)	B4d
K17	Automated manual transmission management ECU power supply relay	B2b
S124C	Power take-off no. 1 position sensor	B4d
Y21	Low speed disengagement solenoid valve	B4d
Y22	High speed disengagement solenoid valve	B4d
Y23	High speed engagement solenoid valve	B4d
Y26	Low speed engagement solenoid valve	B4d

JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

	Direct after battery power supply.
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Gearbox management – Manual gearbox



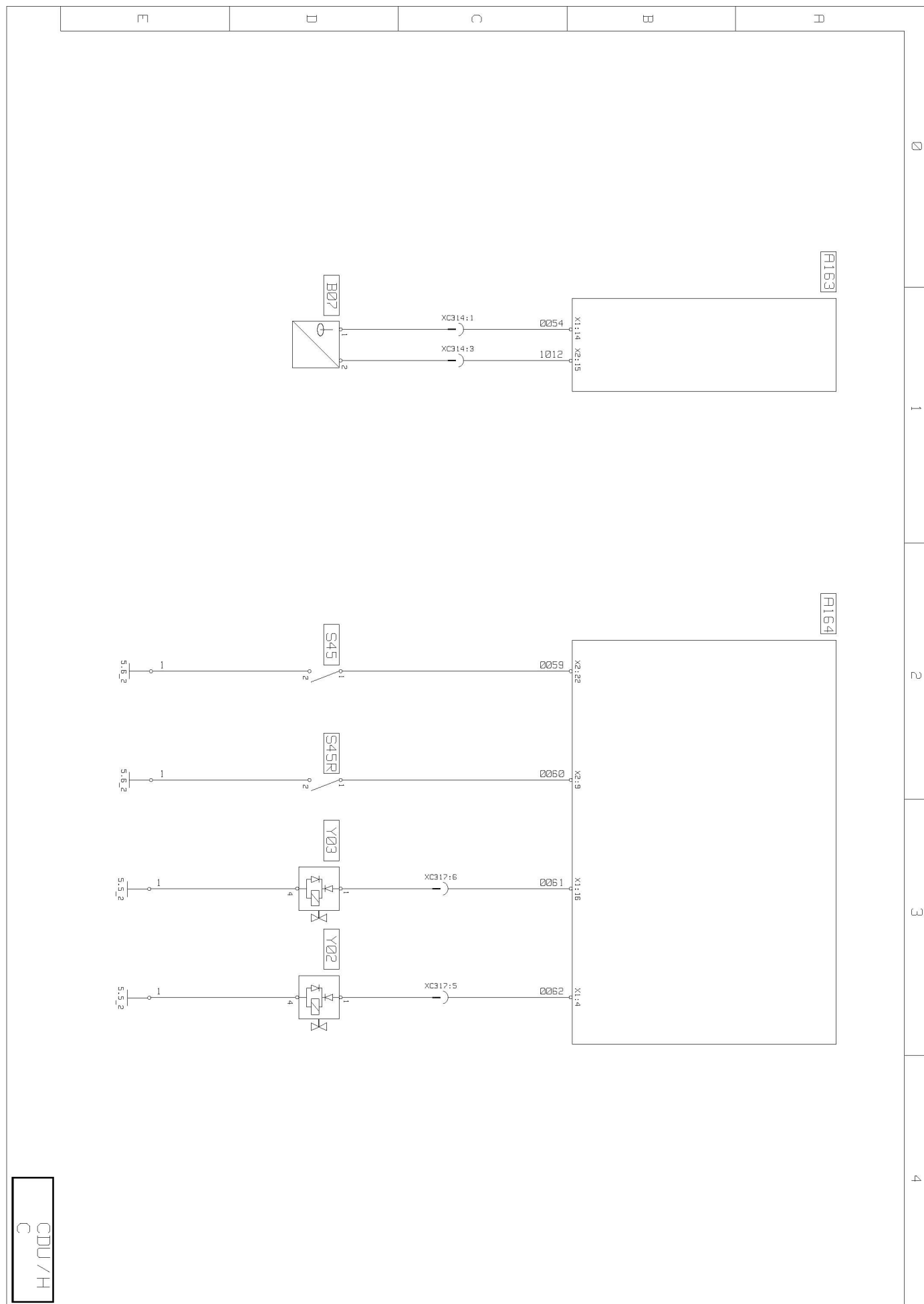
CD9 / H
C

Gearbox management – Manual gearbox

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
B09B	Gearbox oil temperature sensor	B4d
S47	Position sensor - low speed range engaged	B4d
S49	Position sensor - reverse gear engaged	B4d
S63	Position sensor - low speed range engaged	B4d
S101	Position sensor - gear selector in neutral	B4d
S124C	Power take-off no. 1 position sensor	B4d
Y06	Range change locking solenoid valve	B4d
Y31	First gear locking solenoid valve	B4d

Driveline management – Differential lock and transfer box

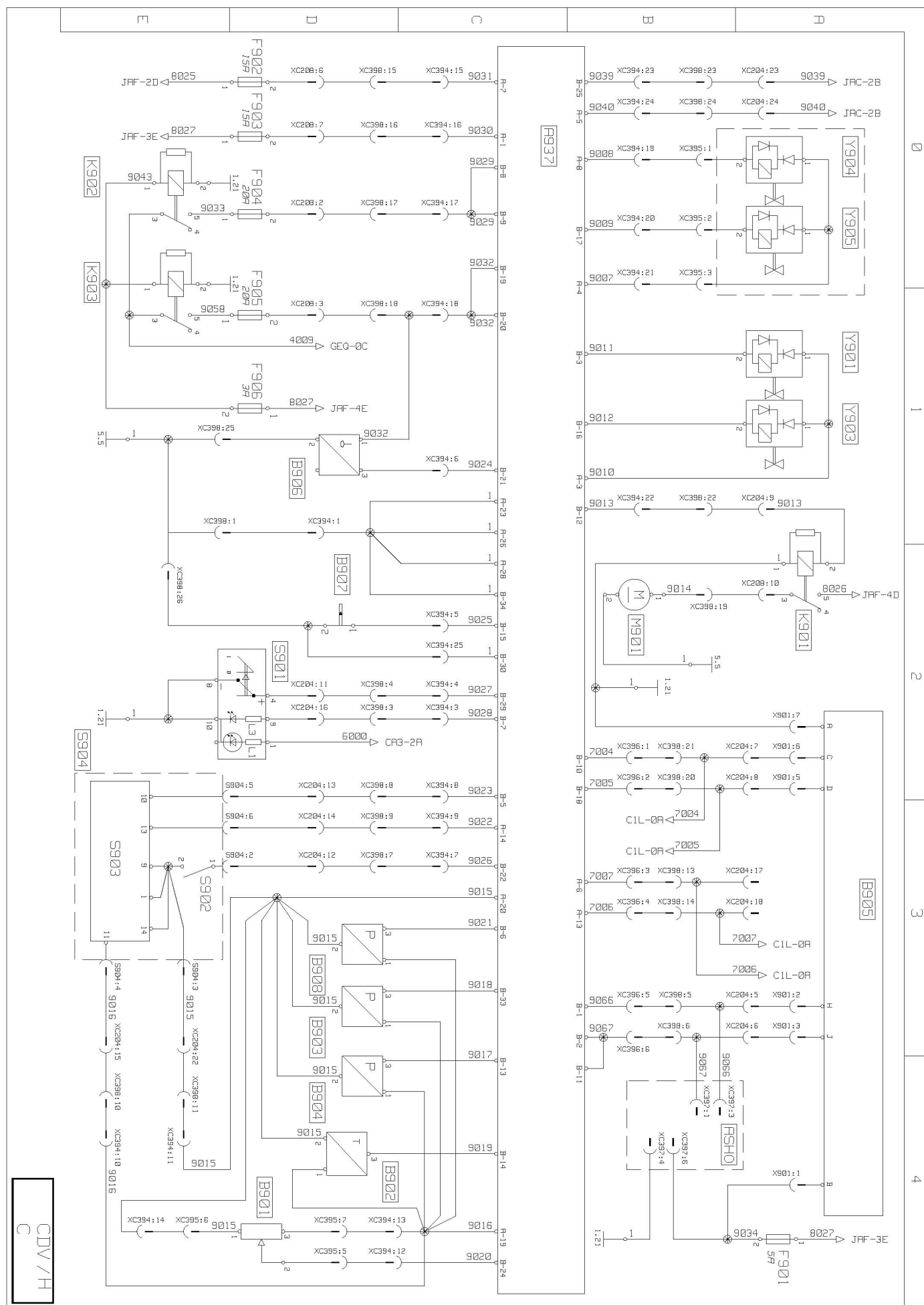


Driveline management – Differential lock and transfer box

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
B07	Fuel level sensor	C6d
S45	Position sensor - rear inter-wheel differential lock engaged	B8d
S45R	Position sensor - rear inter-wheel differential lock engaged (rear drive axle no. 2)	B7d
Y02	Rear inter-wheel differential lock solenoid valve	B5d
Y03	Inter-axle differential lock solenoid valve	B5d

Driveline management - OptiTrack hydraulic system

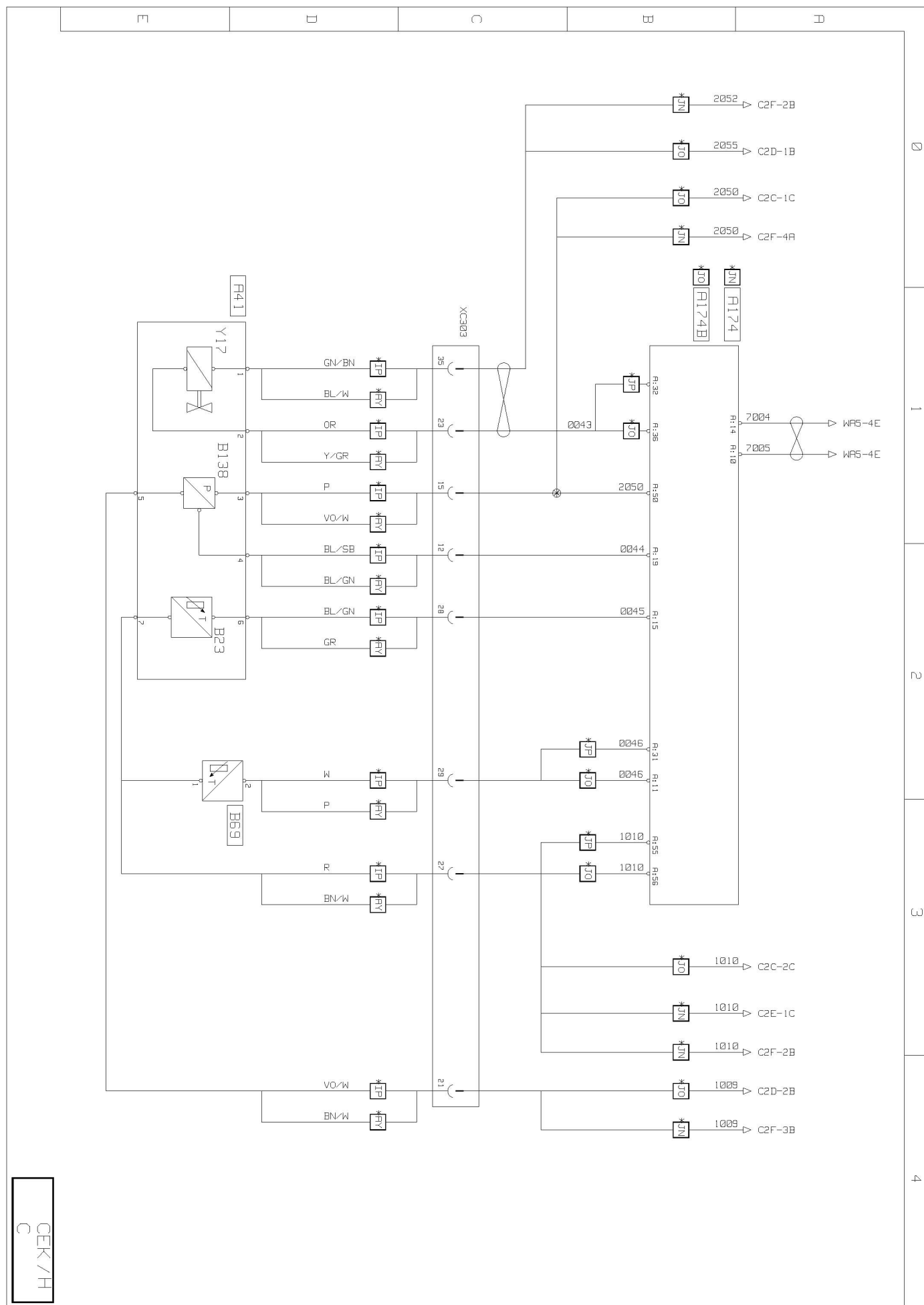


Driveline management - OptiTrack hydraulic system

Key to devices

Code	Function description	Location
A937	OptiTrack system management ECU	B6d
ASHO	OptiTrack hydraulic system information display	B2c
B901	Pump return potentiometer	B4d
B902	OptiTrack system oil temperature sensor	B6d
B903	OptiTrack system forward drive pressure sensor	B6d
B904	OptiTrack system reverse drive pressure sensor	B6d
B905	OptiTrack system diagnostic socket	A2c
B906	OptiTrack system low oil level sensor	C4d
B907	OptiTrack system oil filter clogging sensor	C4d
B908	OptiTrack system oil boost pressure sensor	B6d
K901	OptiTrack system oil cooling fan control relay	A3c
K902	OptiTrack system after ignition current supply relay no. 1	A3c
K903	OptiTrack system after ignition current supply relay no. 2	A3c
M901	OptiTrack system oil cooling fan	C5d
S901	OptiTrack system on/off control	C2b
S902	Instant start control	B2b
S903	OptiTrack system control lever	B2b
S904	OptiTrack system control assembly	B2b
Y901	Freewheeling control solenoid valve no. 1	B6d
Y903	Freewheeling control solenoid valve no. 2	B6d
Y904	OptiTrack system hydraulic flow management solenoid valve no. 1	B4d
Y905	OptiTrack system hydraulic flow management solenoid valve no. 2	B4d

Retarder management – Hydraulic retarder



CEK/H
C

Retarder management – Hydraulic retarder

Key to devices

Code	Function description	Location
A41	Retarder equipment unit	B4d
A174	Exhaust gas after-treatment control module (ACM)	B6d
A174B	Exhaust gas after-treatment control module (ACM)	B6d
B23	Retarder oil temperature sensor	B4d
B69	Retarder coolant temperature sensor	A5d
B138	Retarder oil pressure sensor	B4d
Y17	Retarder control solenoid valve	B4d

AY : with manual gearbox

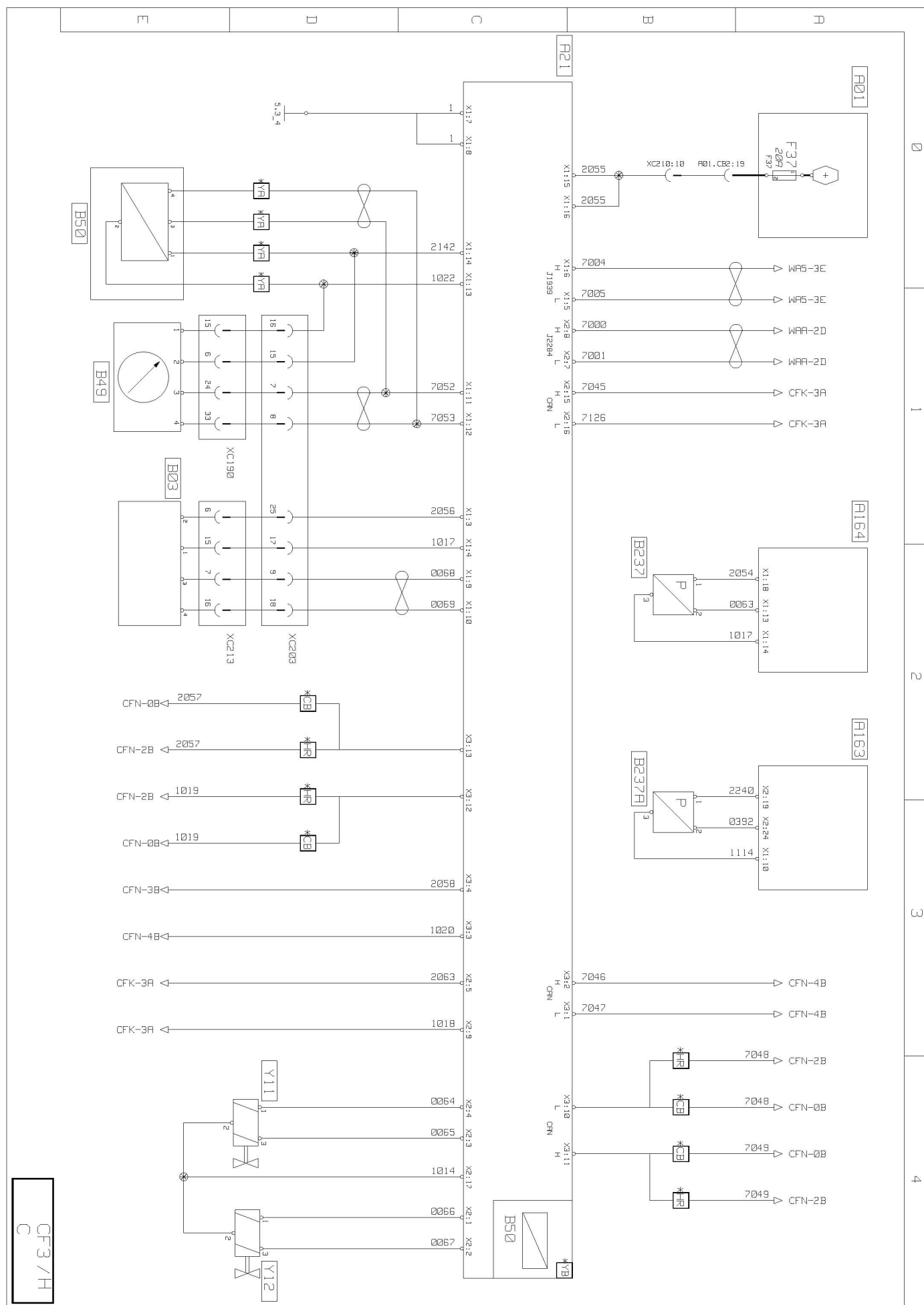
IP : with automated manual transmission

JN : vehicles compliant with **Euro V** standards

JO : vehicles compliant with **Euro VI** standards

JP : vehicles compliant with **Euro III** and **Euro V** standards

Braking management – EBS equipment all options



Braking management – EBS equipment all options

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A21	Electronic braking system control unit (EBS)	B5d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
B03	Brake pedal position sensor	C2c
B49	Steering lockover angle sensor	C2c
B50	Chassis lateral acceleration sensor	B6d
B237	Service brake pressure sensor	B8d
B237A	Service brake pressure sensor	B3d
Y11	Left-hand front wheel ABS solenoid valve	C3d
Y12	Right-hand front wheel ABS solenoid valve	A3d

CB : 6x4 - 8x4 vehicles

HR : 4x2 - 6x2 vehicles

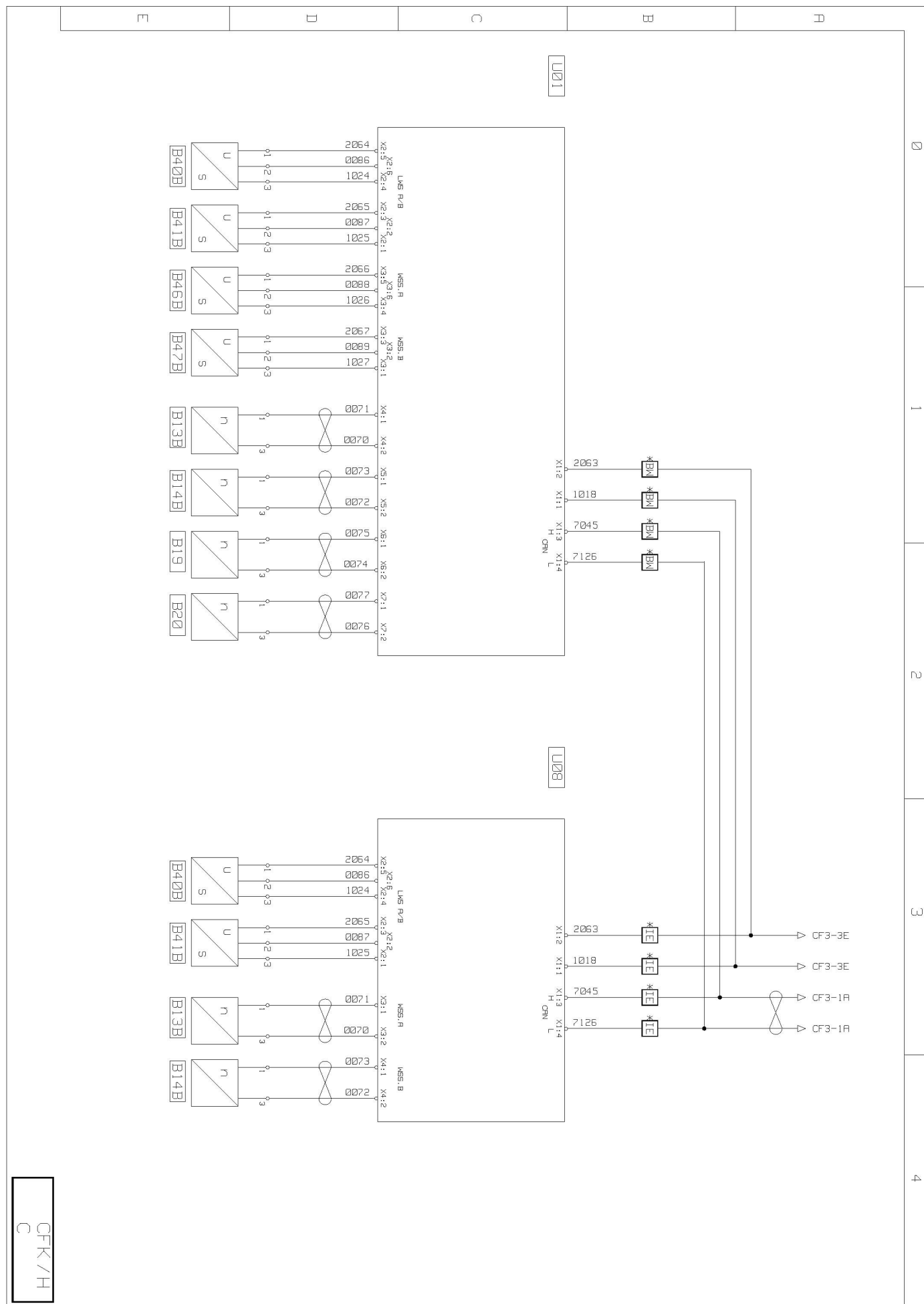
YA : for vehicles manufactured before **30/11/2014**

YB : for vehicles manufactured after **01/12/2014**



Direct after battery power supply.

Braking management - Front EBS module



CFK / H
C

Braking management - Front EBS module

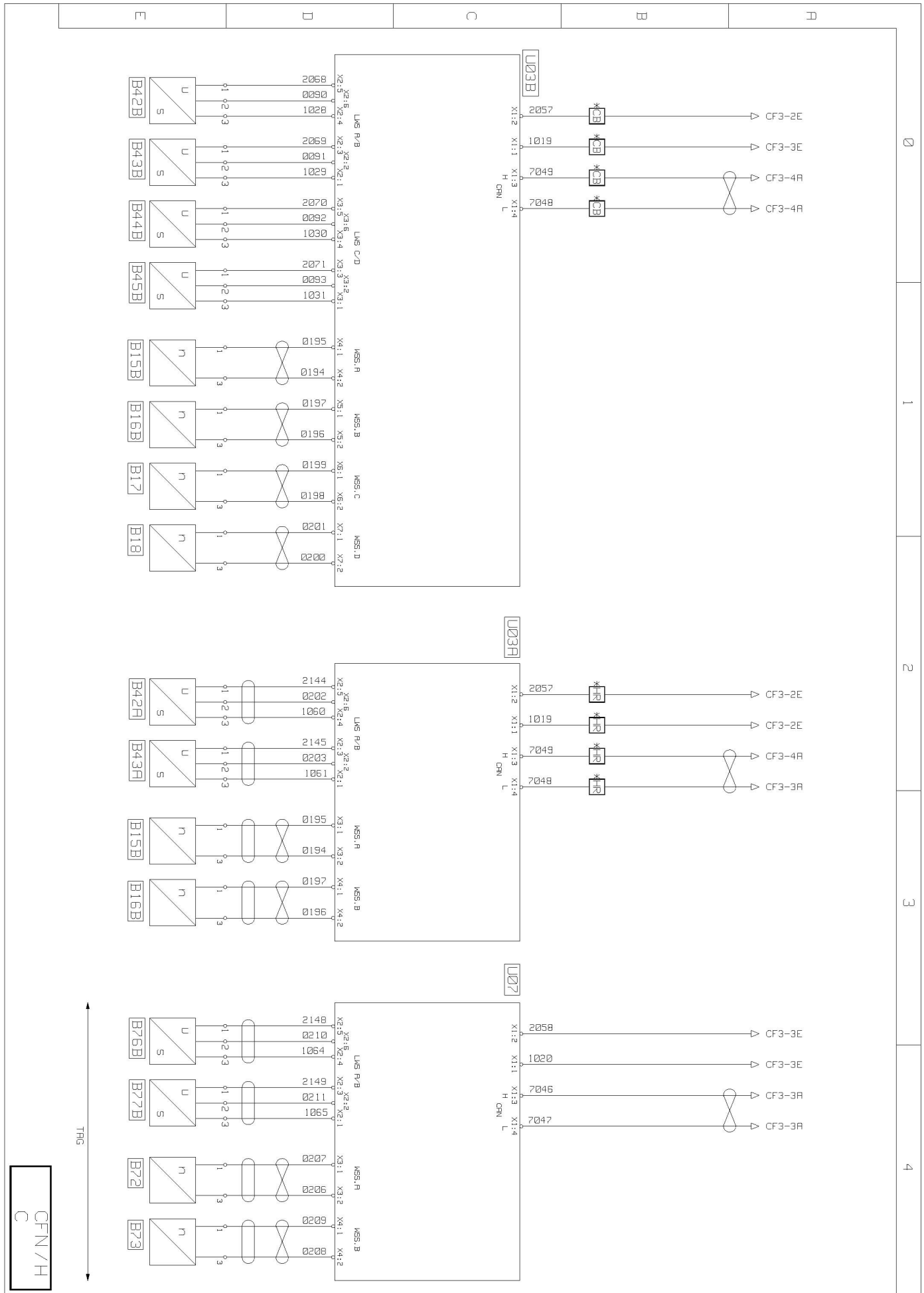
Key to devices

Code	Function description	Location
B13B	Left-hand front wheel speed sensor	C3d
B14B	Right-hand front wheel speed sensor	A3d
B19	Left-hand front wheel speed sensor (drive axle or front axle no. 2)	C4d
B20	Right-hand front wheel speed sensor (drive axle or front axle no. 2)	A4d
B40B	Left-hand front wheel brake lining wear sensor	C3d
B41B	Right-hand front wheel brake lining wear sensor	A3d
B46B	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	C4d
B47B	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	A4d
U01	Braking assistance modulator (front axle)	A3d
U08	Braking assistance modulator (front axle) (EBS)	A3d

BW : 8x4 vehicles

IE : 4x2 - 6x2 - 6x4 vehicles

Braking management - Rear EBS module



Braking management - Rear EBS module

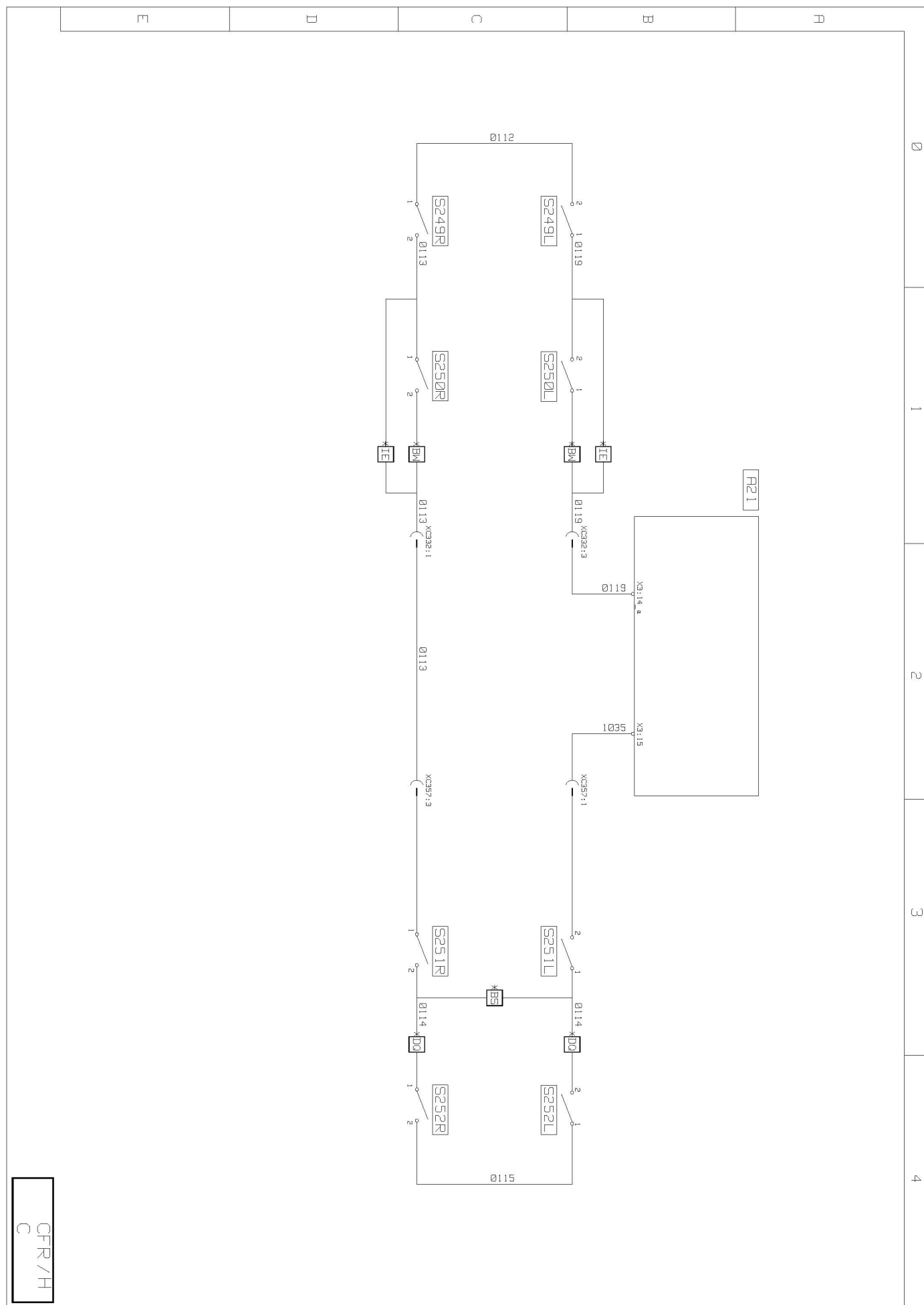
Key to devices

Code	Function description	Location
B15B	Left-hand rear wheel speed sensor	C8d
B16B	Right-hand rear wheel speed sensor	A8d
B17	Left-hand rear wheel speed sensor (rear axle)	C8d
B18	Right-hand rear wheel speed sensor (rear axle)	A8d
B42A	Left-hand rear wheel brake lining wear sensor	C8d
B42B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	C8d
B43A	Right-hand rear wheel brake lining wear sensor	A8d
B43B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	A8d
B44B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	C8d
B45B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	A8d
B72	Left-hand rear wheel speed sensor (TAG rear axle)	C8d
B73	Right-hand rear wheel speed sensor (TAG rear axle)	A8d
B76B	Left-hand rear wheel brake lining wear sensor (TAG rear axle)	C8d
B77B	Right-hand rear wheel brake lining wear sensor (TAG rear axle)	A8d
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	B6d
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	B7d
U07	Braking assistance modulator (TAG second rear axle) (EBS)	B7d

CB : 6x4 - 8x4 vehicles

HR : 4x2 - 6x2 vehicles

Braking management - Brake pad wear sensor



CFR/H
C

Braking management - Brake pad wear sensor

Key to devices

Code	Function description	Location
A21	Electronic braking system control unit (EBS)	B5d
S249L	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	C3d
S249R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	A3d
S250L	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	C4d
S250R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	A4d
S251L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	C7d
S251R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	A7d
S252L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	C8d
S252R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	A8d

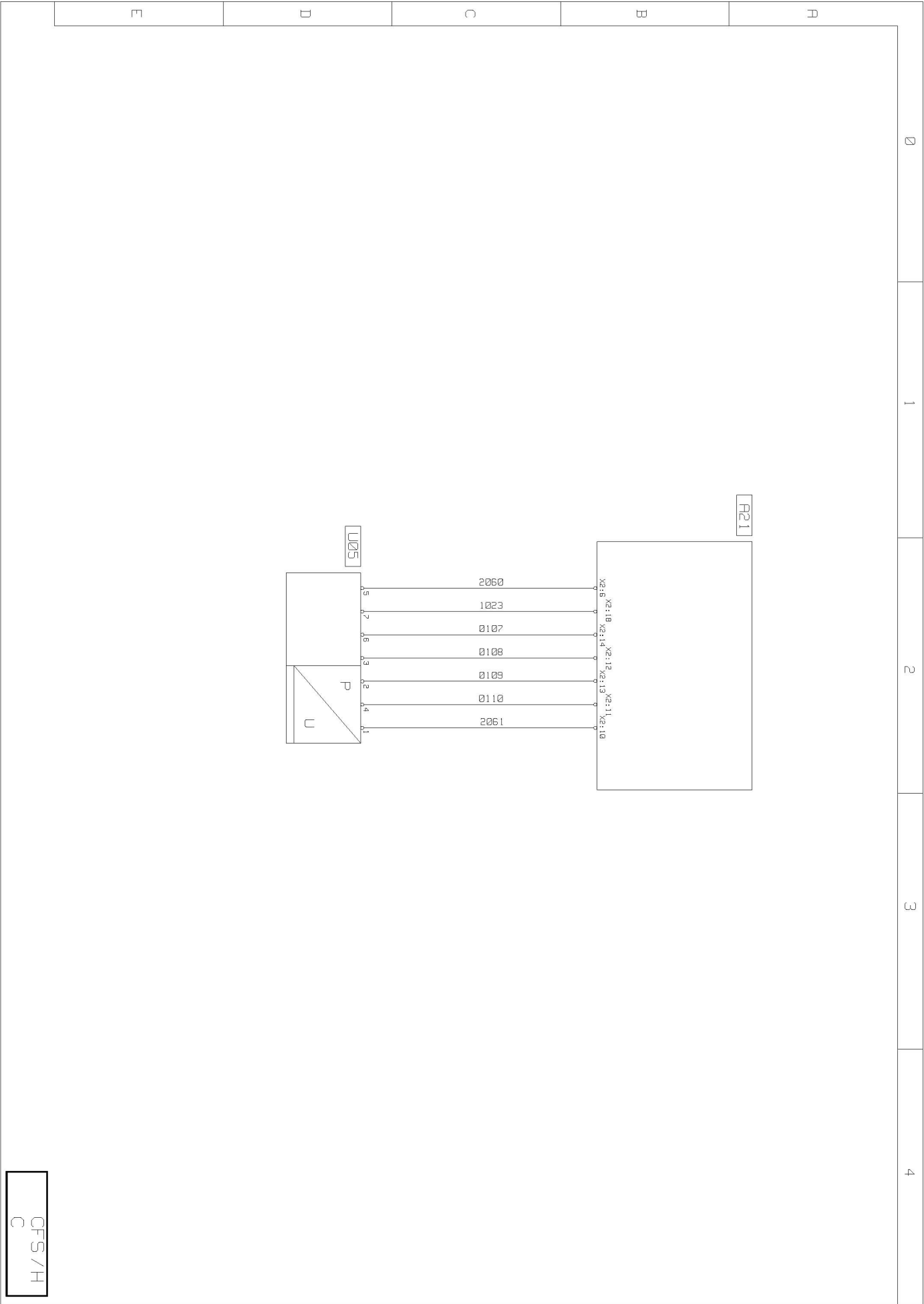
BS : 4x2 vehicles

BW : 8x4 vehicles

DQ : 6x2 - 6x4 - 8x4 vehicles

IE : 4x2 - 6x2 - 6x4 vehicles

Braking management - Trailer EBS module



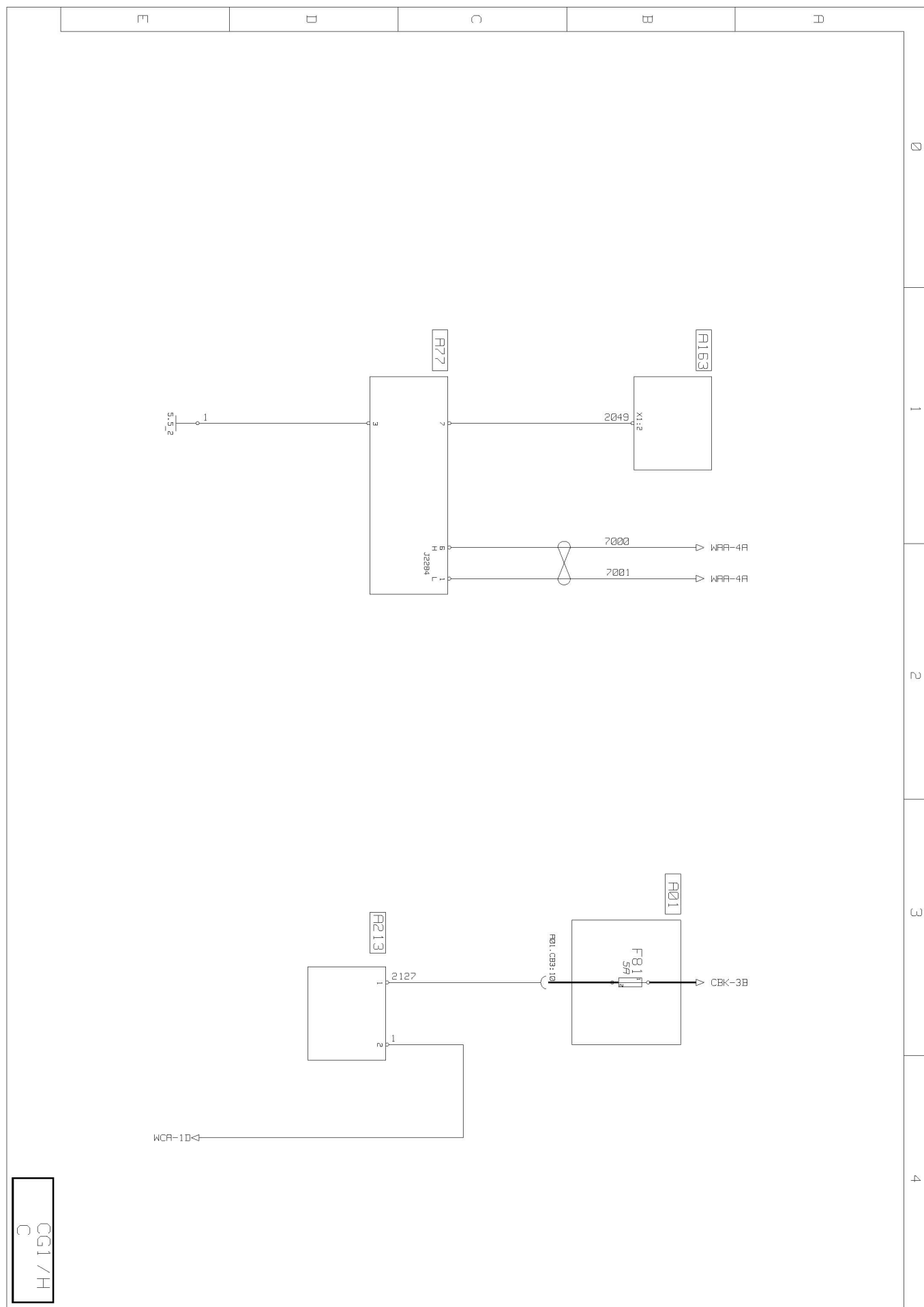
CFS / H
C

Braking management - Trailer EBS module

Key to devices

Code	Function description	Location
A21	Electronic braking system control unit (EBS)	B5d
U05	Trailer braking assistance modulator (EBS)	C5d

Tyre management – Tyre pressure monitoring

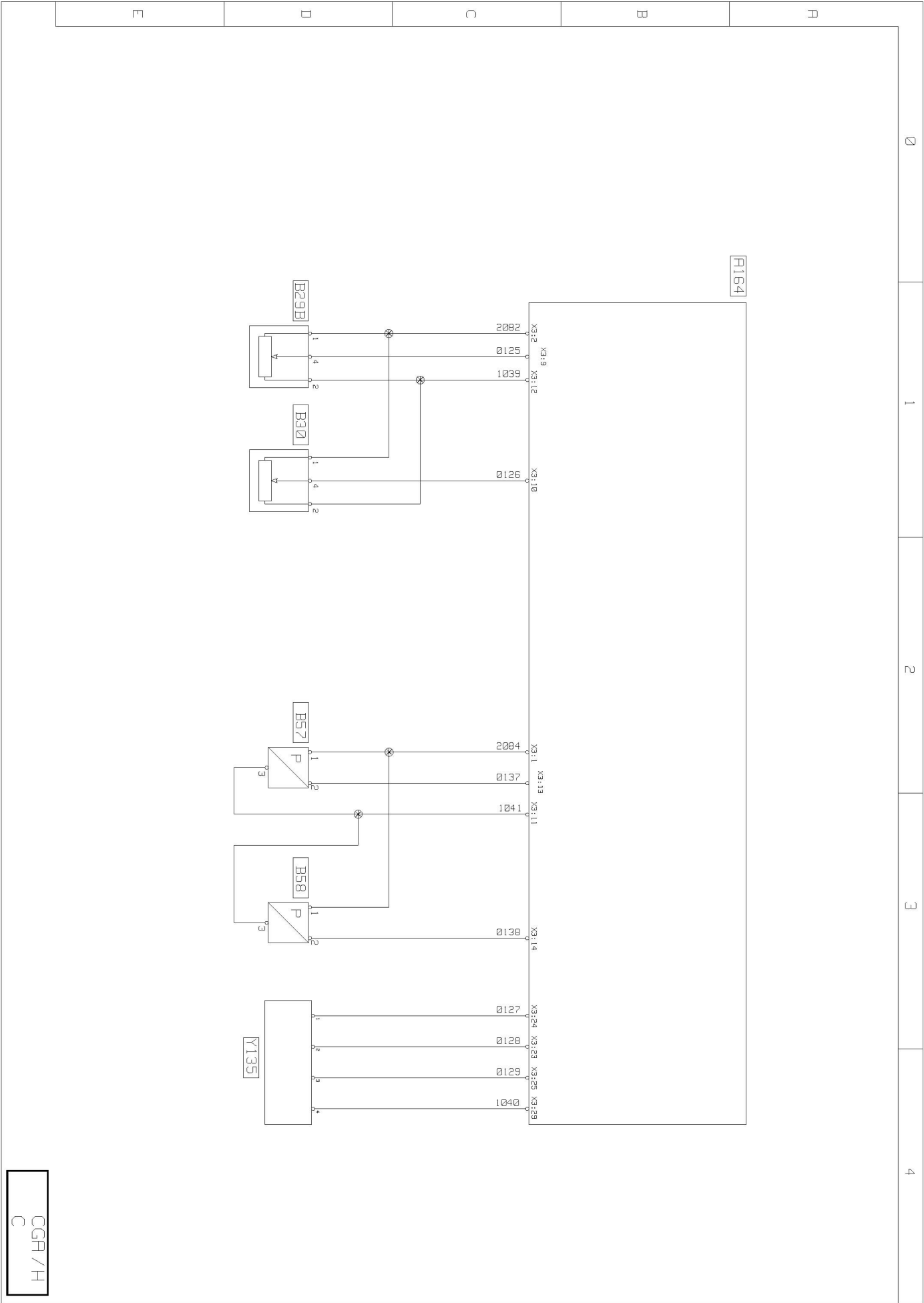


Tyre management – Tyre pressure monitoring

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A77	Tyre pressure monitoring control unit	B6d
A163	Central chassis area information management control unit (CCIOM)	B6d
A213	Tyre Pressure Monitoring System (TPMS) information display	B2b

Suspension management – 4x2 air suspension



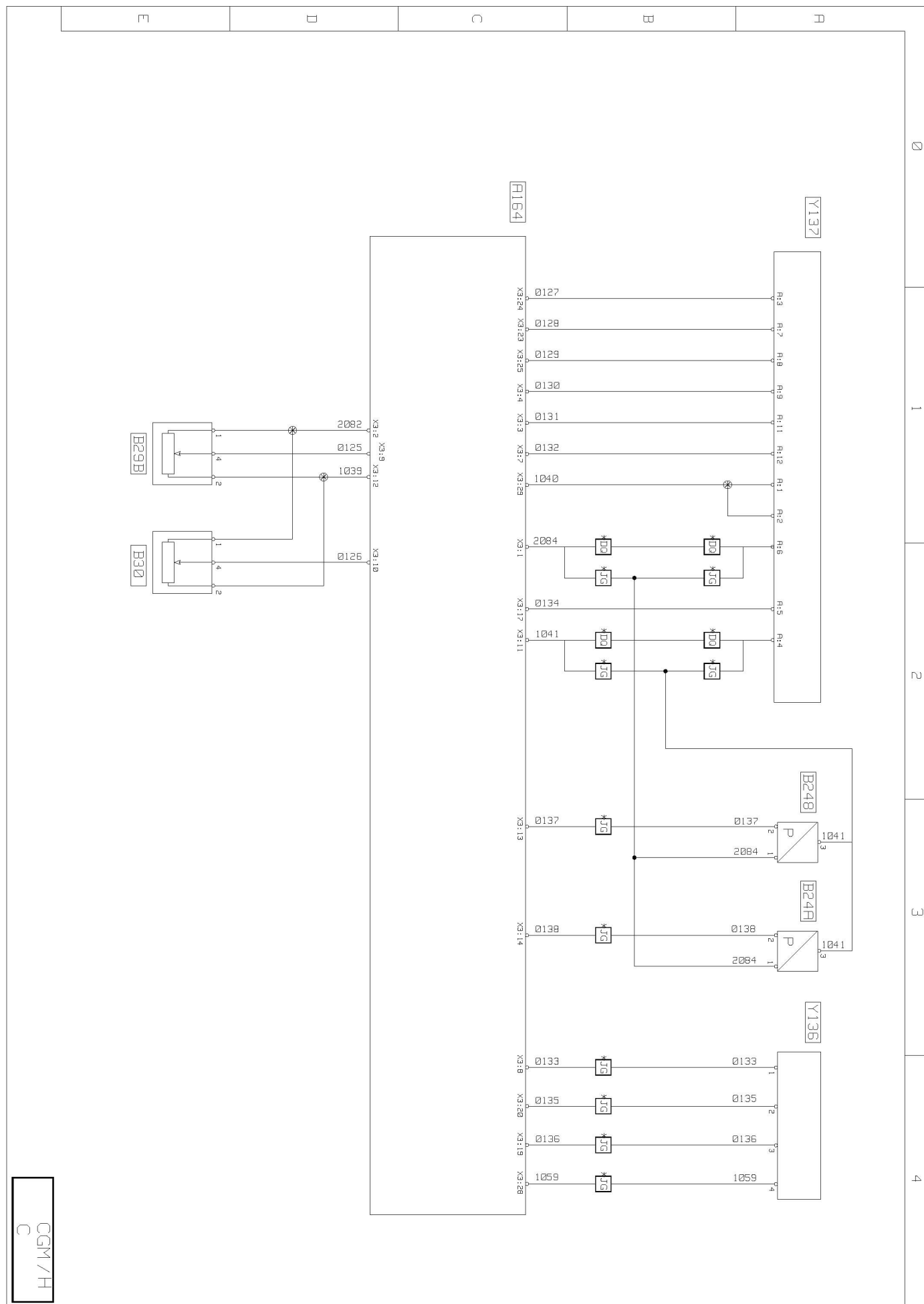
CGH/H
C

Suspension management – 4x2 air suspension

Key to devices

Code	Function description	Location
A164	Rear chassis area information management control unit (RCIOM)	B8d
B29B	Rear drive axle suspension left-hand position sensor	B8d
B30	Rear drive axle suspension right-hand position sensor	B8d
B57	Sensor for air pressure in left-hand suspension air spring (rear drive axle no. 1)	C7d/C8d
B58	Sensor for air pressure in right-hand suspension air spring (rear drive axle no. 1)	A7d/A8d
Y135	Rear axle suspension control solenoid valve assembly	B8d

Suspension management – 6x2 - 6x4 - 8x4 air suspension



CGM/H
C

Suspension management – 6x2 - 6x4 - 8x4 air suspension

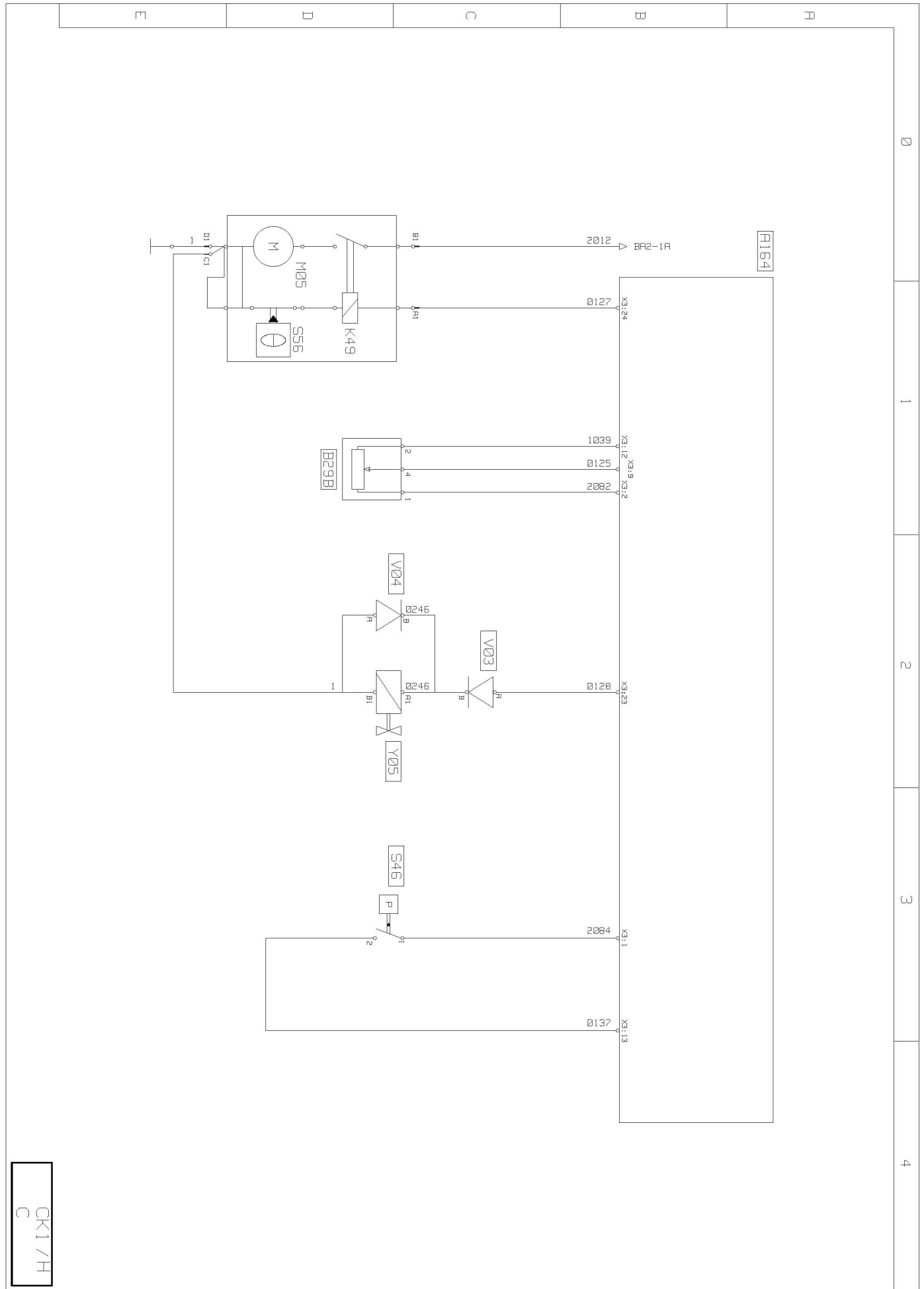
Key to devices

Code	Function description	Location
A164	Rear chassis area information management control unit (RCIOM)	B8d
B24A	Lift-up axle air spring air pressure sensor	B8d
B29B	Rear drive axle suspension left-hand position sensor	B8d
B30	Rear drive axle suspension right-hand position sensor	B8d
B248	Lift-up axle air spring air pressure sensor	B8d
Y136	Rear axle suspension control solenoid valve assembly	B7d
Y137	Rear axle suspension control solenoid valve assembly	B7d

DQ : 6x2 - 6x4 - 8x4 vehicles

JG : 8x4 TRIDEM vehicles

Lift axle management



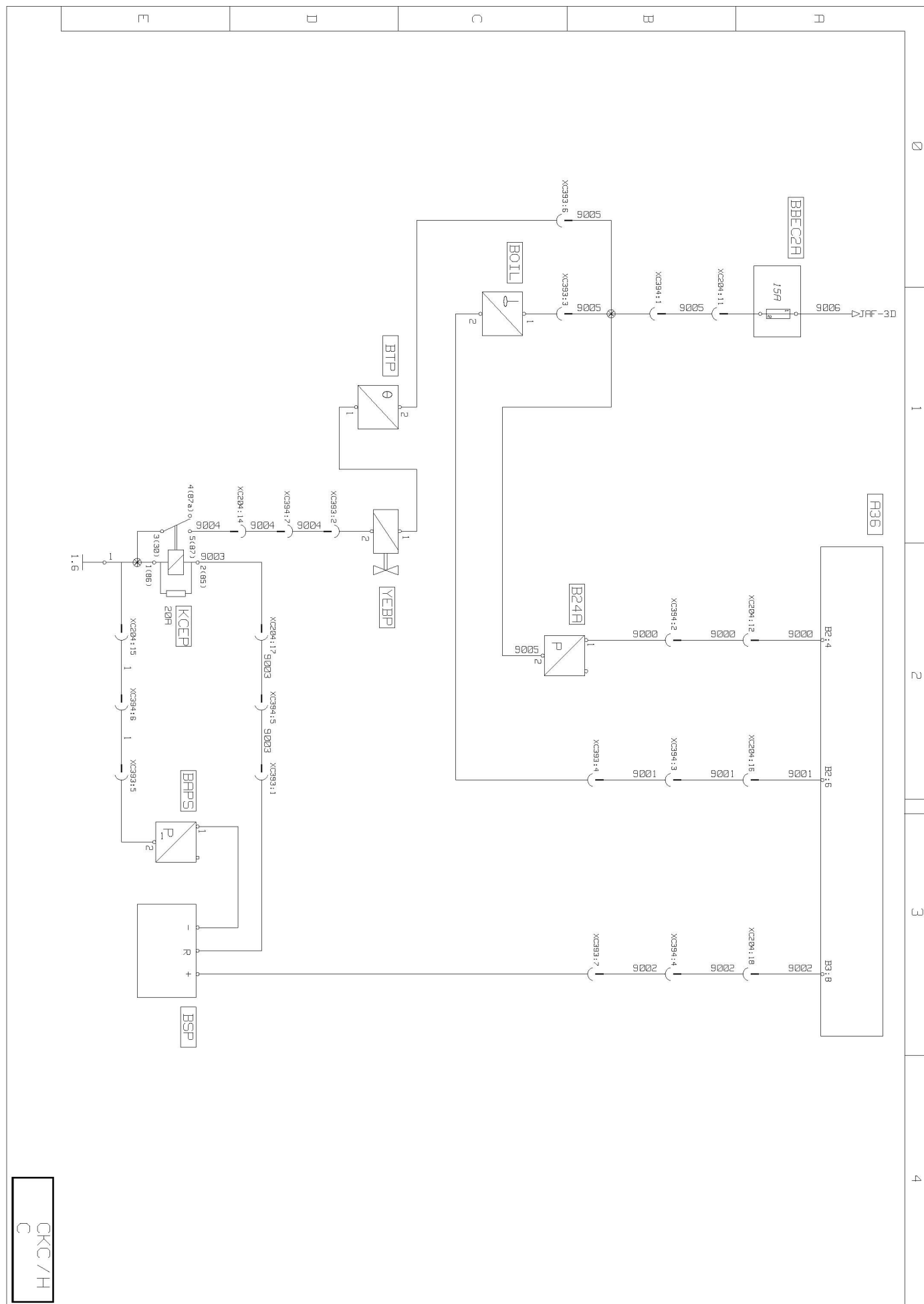
CK1/H
C

Lift axle management

Key to devices

Code	Function description	Location
A164	Rear chassis area information management control unit (RCIOM)	B8d
B29B	Rear drive axle suspension left-hand position sensor	B8d
K49	Axle lift motor power supply relay	B2b
M05	Axle lift hydraulic pump motor	B7d/B8d
S46	Axle lift position sensor	B7d/B8d
S56	Axle lift temperature sensor	B7d/B8d
V03	Diode	B5d
V04	Diode	B5d
Y05	Rear axle suspension control solenoid valve assembly	B5d

8x2/6 controlled axle management



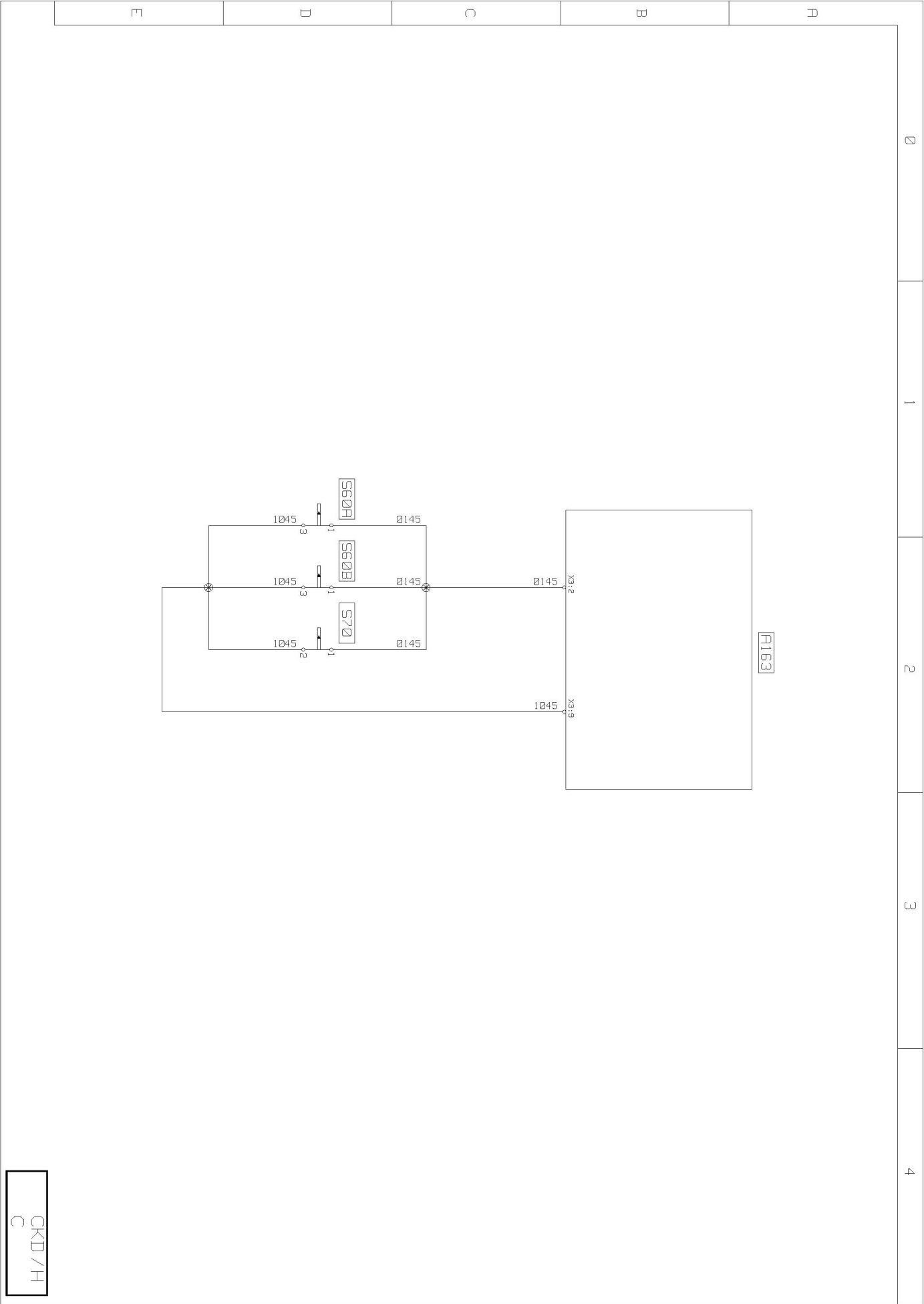
CKC/H
C

8x2/6 controlled axle management

Key to devices

Code	Function description	Location
A36	Body builder pre-equipment management control unit (BBM)	B2c
B24A	Lift-up axle air spring air pressure sensor	B8d
BAPS	Lift-up air spring reservoir pressure sensor	B7d
BBEC2A	Central electrical distribution box for body builder pre-equipment connector no. 2	B2c
BOIL	Controlled axle oil reservoir level sensor	B2c
BSP	Controlled axle in neutral position sensor	C8d
BTP	Controlled axle oil temperature sensor	B8d
KCEP	Controlled axle control relay	B1b
YEBP	Controlled axle oil bypass solenoid valve	B8d

Power-assisted steering management

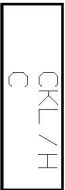


CKD/H
C

Power-assisted steering management

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
S60A	Sensor no. 1 for oil pressure in power steering circuit	C2d
S60B	Sensor no. 2 for oil pressure in power steering circuit	C2d
S70	Power steering oil flow sensor	C2d



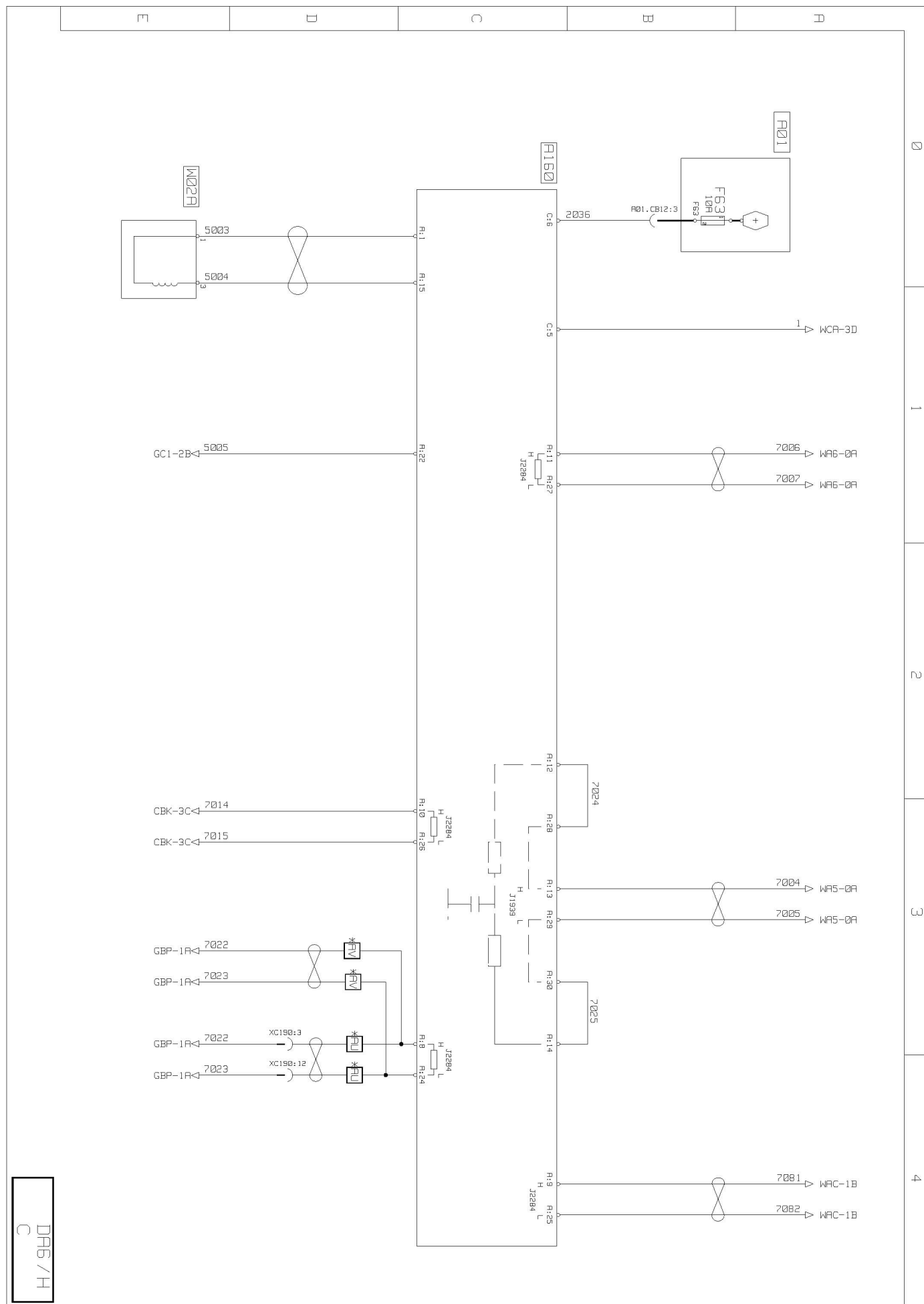
Air production management

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A173A	Parking brake electrical control	B2b
A177	Air production management control unit (APM)	C5d/B6d

	Direct after battery power supply.
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Safety management – Immobiliser



DR6/H
C

Safety management – Immobiliser

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A160	Cab information management control unit (CIOM)	B2c
W02A	Immobiliser transponder antenna	C2c

AU : left-hand drive

AV : right-hand drive

	Direct after battery power supply.
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Safety management - Left-hand door management

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A165L	Left-hand door information management control unit (DDM/PDM)	C3c
A187	Main vehicle management control unit (VMCU)	B2b
E130L	Left-hand door edge illumination light	C3c
K21	Electric rear-view mirror power supply relay	B2b
M09L	Left-hand front door locking system assembly	C3c
M44L	Left-hand front door window lift motor with anti-pinch system	C3c
M45L	Left-hand front door window lift motor	C3c
MAML	Wide angle rear view mirror motor, LH side	C2a
MMML	Main rear view mirror motor, LH side	C2a
R02AL	Electric rear-view mirror, left-hand side	C2a
RAML	Heated wide angle mirror, LH side	C2a
RMML	Heated main mirror, LH side	C2a
S36L	Control for left-hand front window lift motor	C3c

AU : left-hand drive

AV : right-hand drive

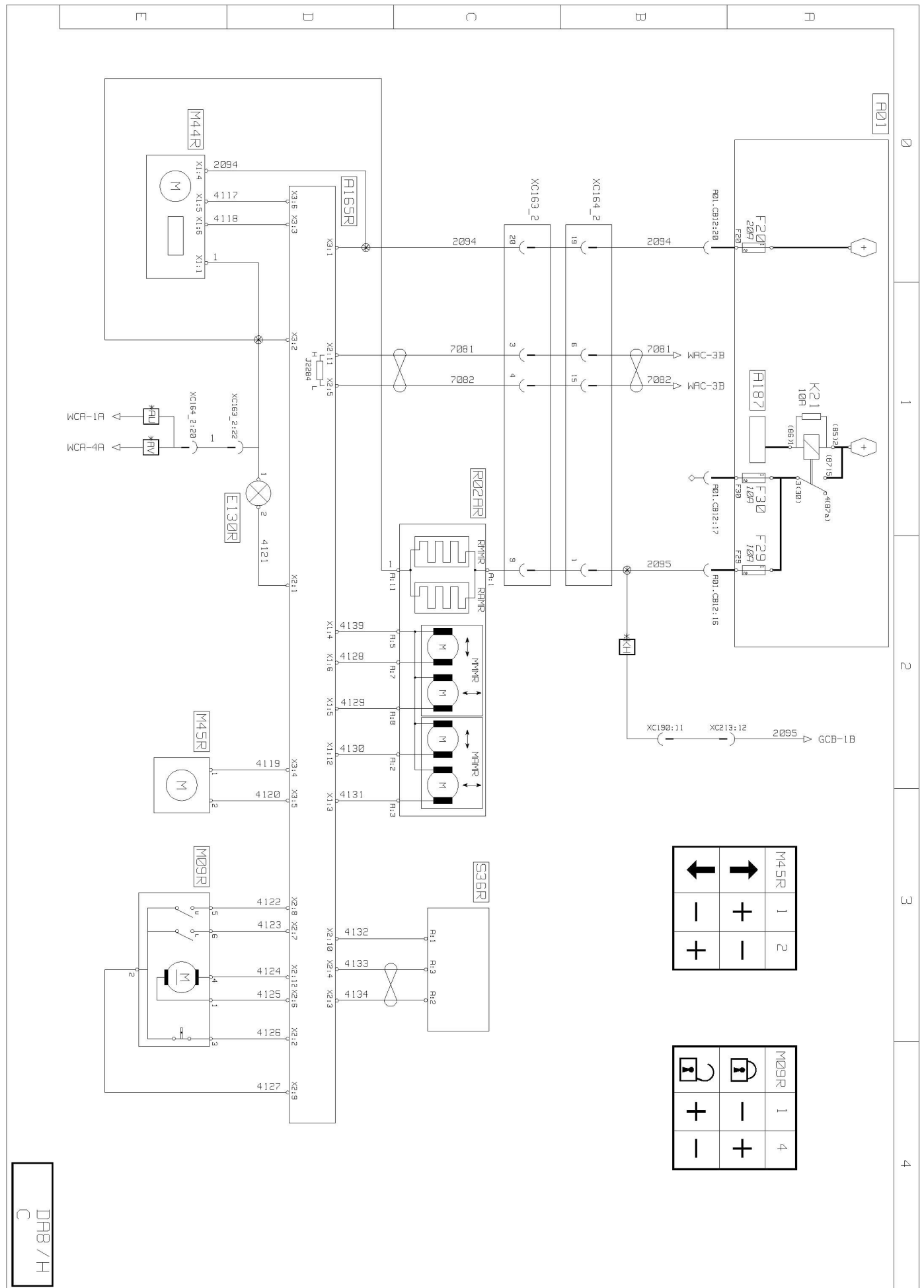
YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**



Direct after battery power supply.

Safety management - Right-hand door management



DA8/H
C

Safety management - Right-hand door management

Key to devices

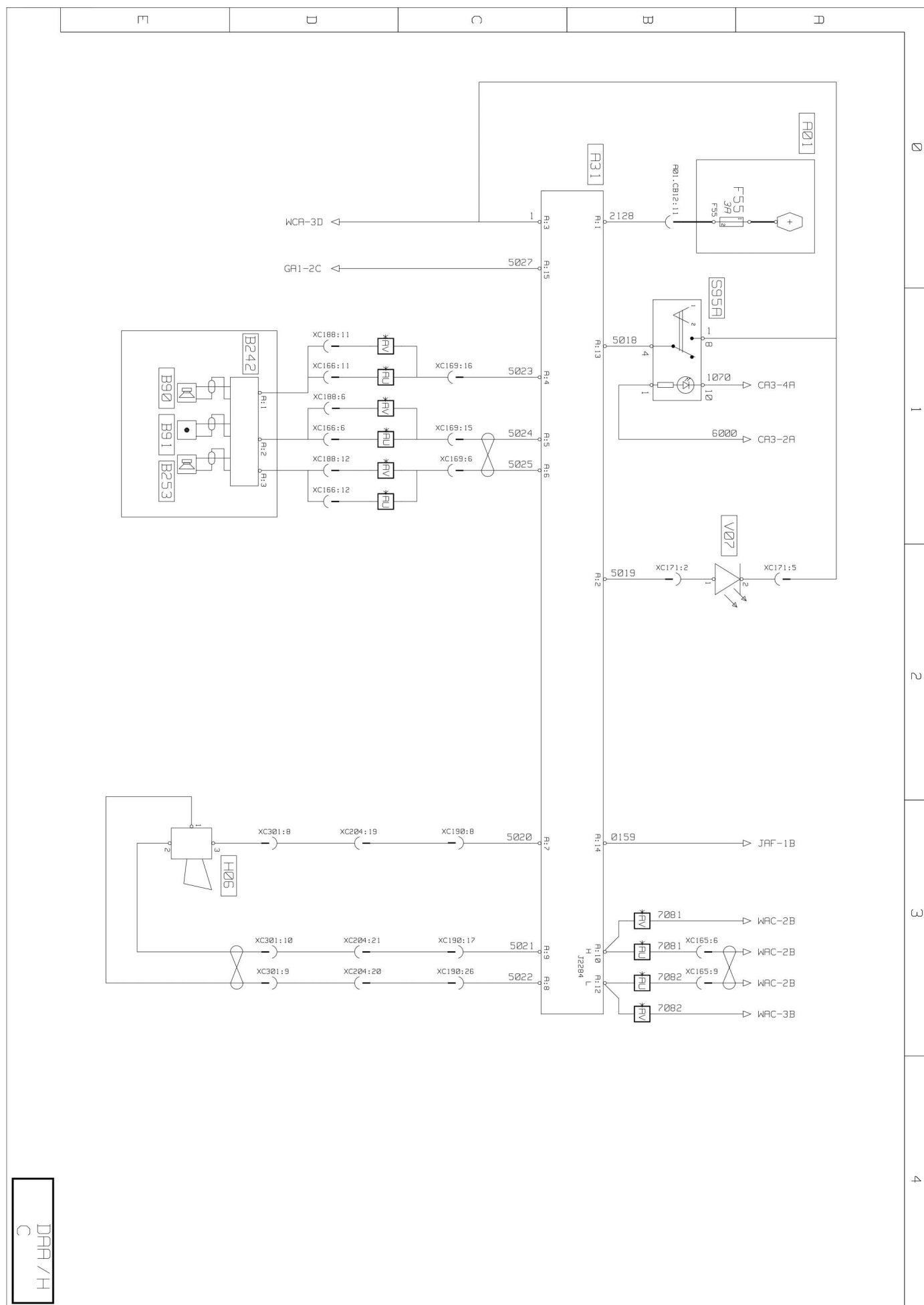
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A165R	Right-hand door information management control unit (DDM/PDM)	A3c
A187	Main vehicle management control unit (VMCU)	B2b
E130R	Right-hand door edge illumination light	A3c
K21	Electric rear-view mirror power supply relay	B2b
M09R	Right-hand front door locking system assembly	A3c
M44R	Right-hand front door window lift motor with anti-pinch system	A3c
M45R	Right-hand front door window lift motor	A3c
MAMR	Wide angle rear view mirror motor, RH side	A2a
MMMR	Main rear view mirror motor, RH side	A2a
R02AR	Electric rear-view mirror, right-hand side	A2a
RAMR	Heated wide angle mirror, RH side	A2a
RMMR	Heated main mirror, RH side	A2a
S36R	Control for right-hand front window lift motor	A3c

AU : left-hand drive

AV : right-hand drive

KH : with windscreen de-icing

	Direct after battery power supply.
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Safety management – Alarm

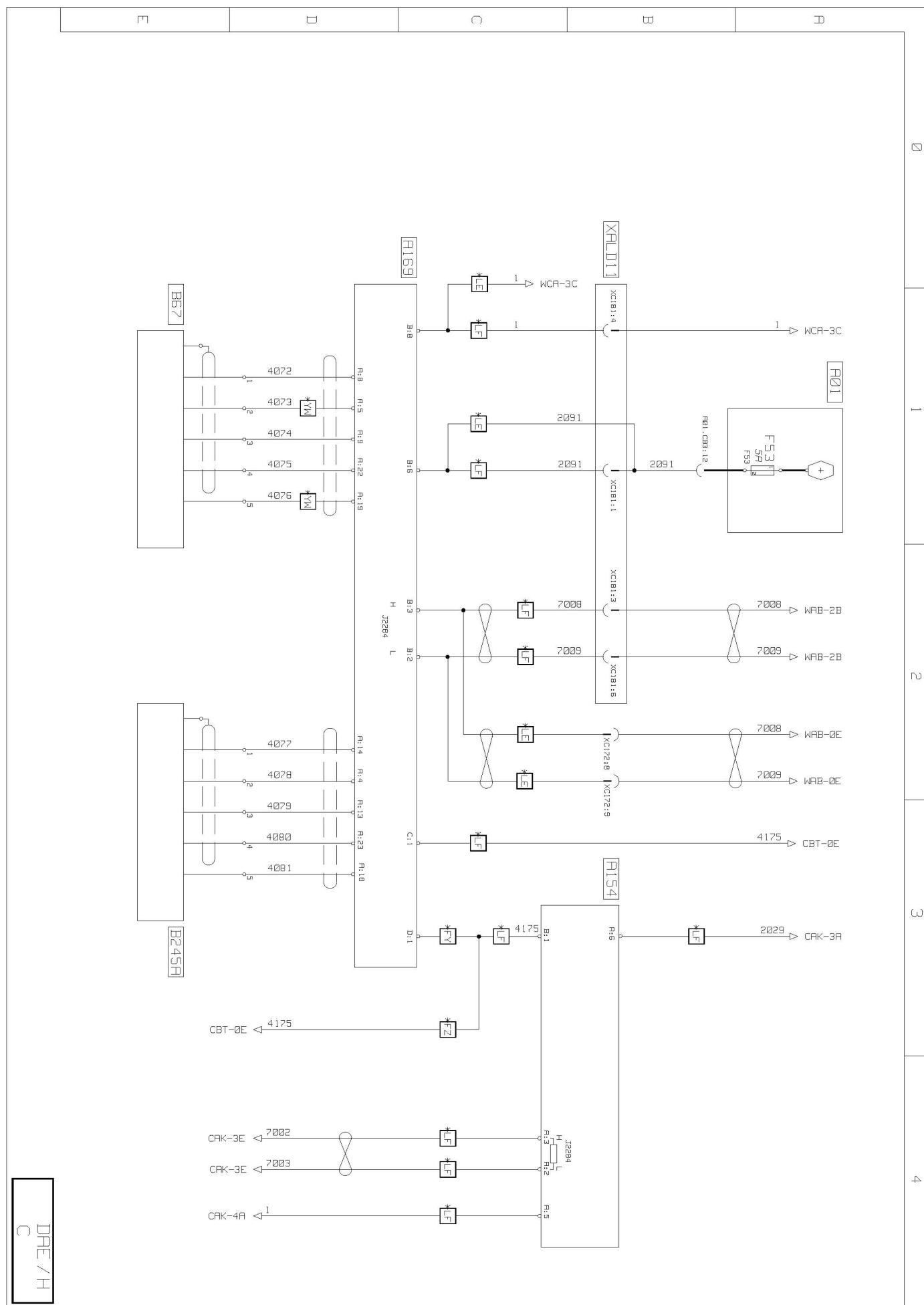
Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A31	Vehicle anti-theft system ECU (AECU)	B2c
B90	Alarm presence detector ultrasound transmitter	B4a
B91	Alarm presence detector ultrasound receiver	B4a
B242	Ultrasound decoder for anti-intrusion protection (UIP)	B4a
B253	Alarm presence detector ultrasound transmitter	B4a
H06	Horn - alarm siren	A1c
S95A	Alarm panic button control	C2c
V07	Vehicle alarm signalling diode	B1b

AU : left-hand drive

AV : right-hand drive

	Direct after battery power supply.
------------------------------------------------------------------------------------	------------------------------------



Safety management - Video surveillance

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A154	Video display	B2b
A169	Video control unit (VS)	B2c
B67	Vehicle rear visibility assistance camera	-
B245A	Vehicle rear visibility assistance camera	-
XALD11	Available power supply (video control unit pre-equipment)	B2c

FY : with video control unit

FZ : without video control unit

LE : with entertainment service module

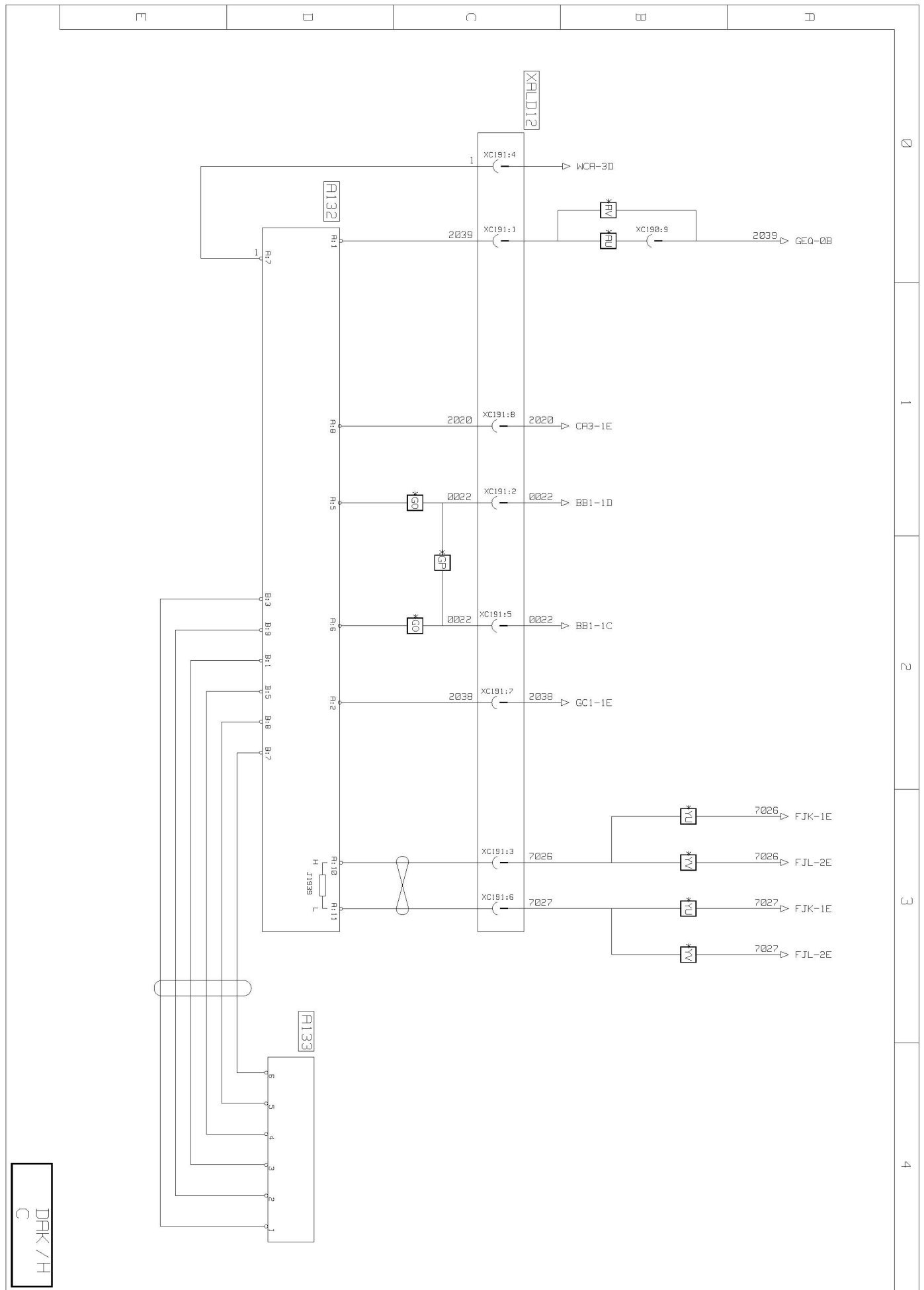
LF : with audio system module

YW : for vehicles manufactured before 2018/09/10



Direct after battery power supply.

Safety management – Alcotest



Safety management – Alcotest

Key to devices

Code	Function description	Location
A132	Vehicle immobiliser alcolock control unit	B2c
A133	Vehicle immobiliser alcolock sensor	B2c
XALD12	Available power supply (breathalyser pre-equipment)	B2c

AU : left-hand drive

AV : right-hand drive

FS : with pre-equipment for driving assistance system

FT : without pre-equipment for driving assistance system

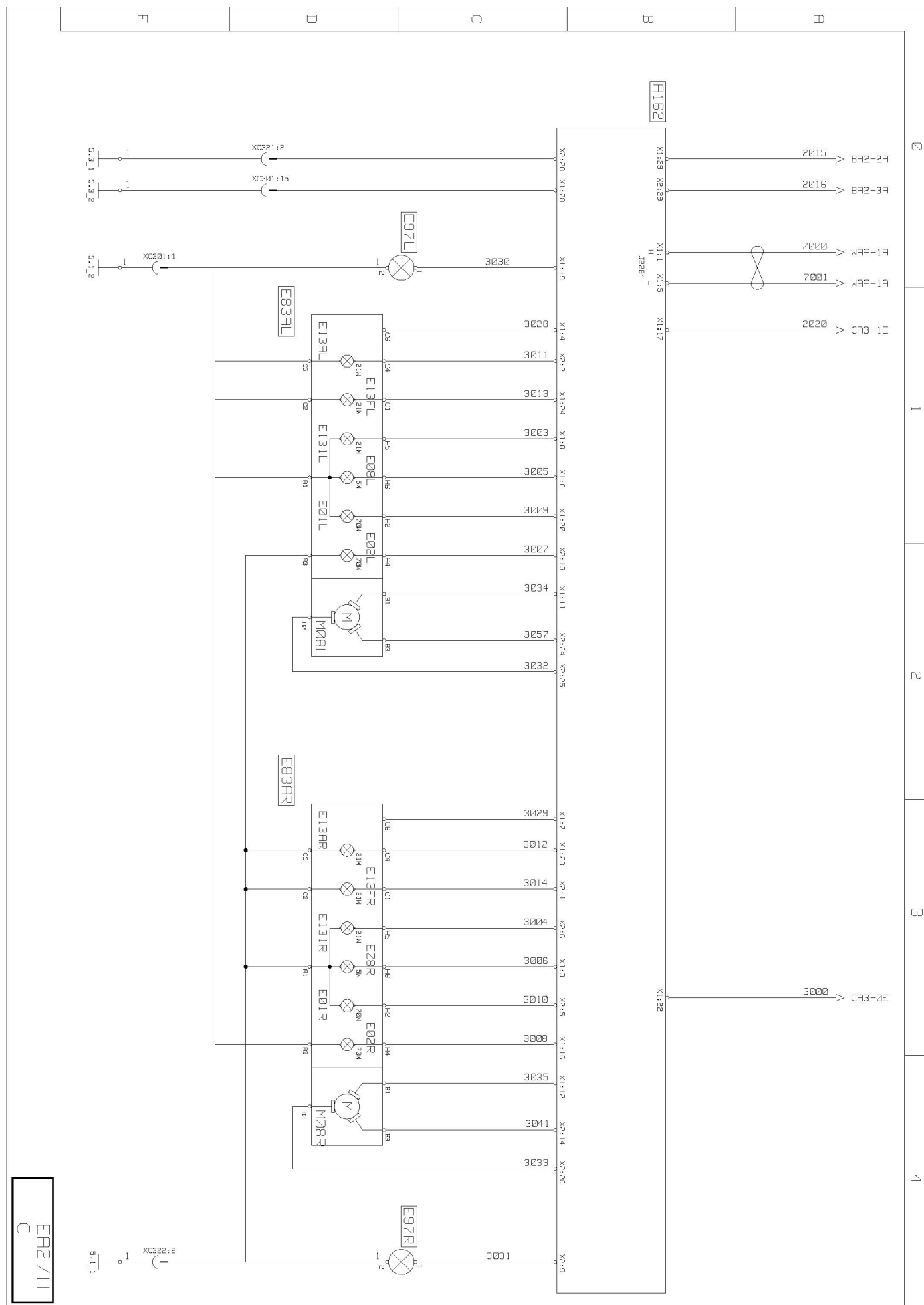
GO : with breathalyser ignition interlock device

GP : without breathalyser ignition interlock device

YU : for vehicles manufactured before **2018/06/04**

YV : for vehicles manufactured after **2018/06/03**

Lighting and signalling – Main beam headlamps



Lighting and signalling – Main beam headlamps

Key to devices

Code	Function description	Location
A162	Front chassis area information management control unit (FCIOM)	A2d
E01L	Left-hand main beam headlamp	C1d
E01R	Right-hand main beam headlamp	A1d
E02L	Left-hand dipped beam headlamp	C1d
E02R	Right-hand dipped beam headlamp	A1d
E08L	Left-hand front parking lamp	C1d
E08R	Right-hand front parking lamp	A1d
E13AL	Left-hand side direction indicator light	C1d
E13AR	Right-hand side direction indicator light	A1d
E13FL	Left-hand front direction indicator lamp	C1d
E13FR	Right-hand front direction indicator lamp	A1d
E83AL	LH light unit	C1d
E83AR	RH light unit	A1d
E97L	Fog driving light, LH	C1d
E97R	Fog driving light, RH	A1d
E131L	Daytime running light - left-hand side	C1d
E131R	Daytime running light - right-hand side	A1d
M08L	Left-hand headlamp height adjustment motor	C1d
M08R	Right-hand headlamp height adjustment motor	A1d

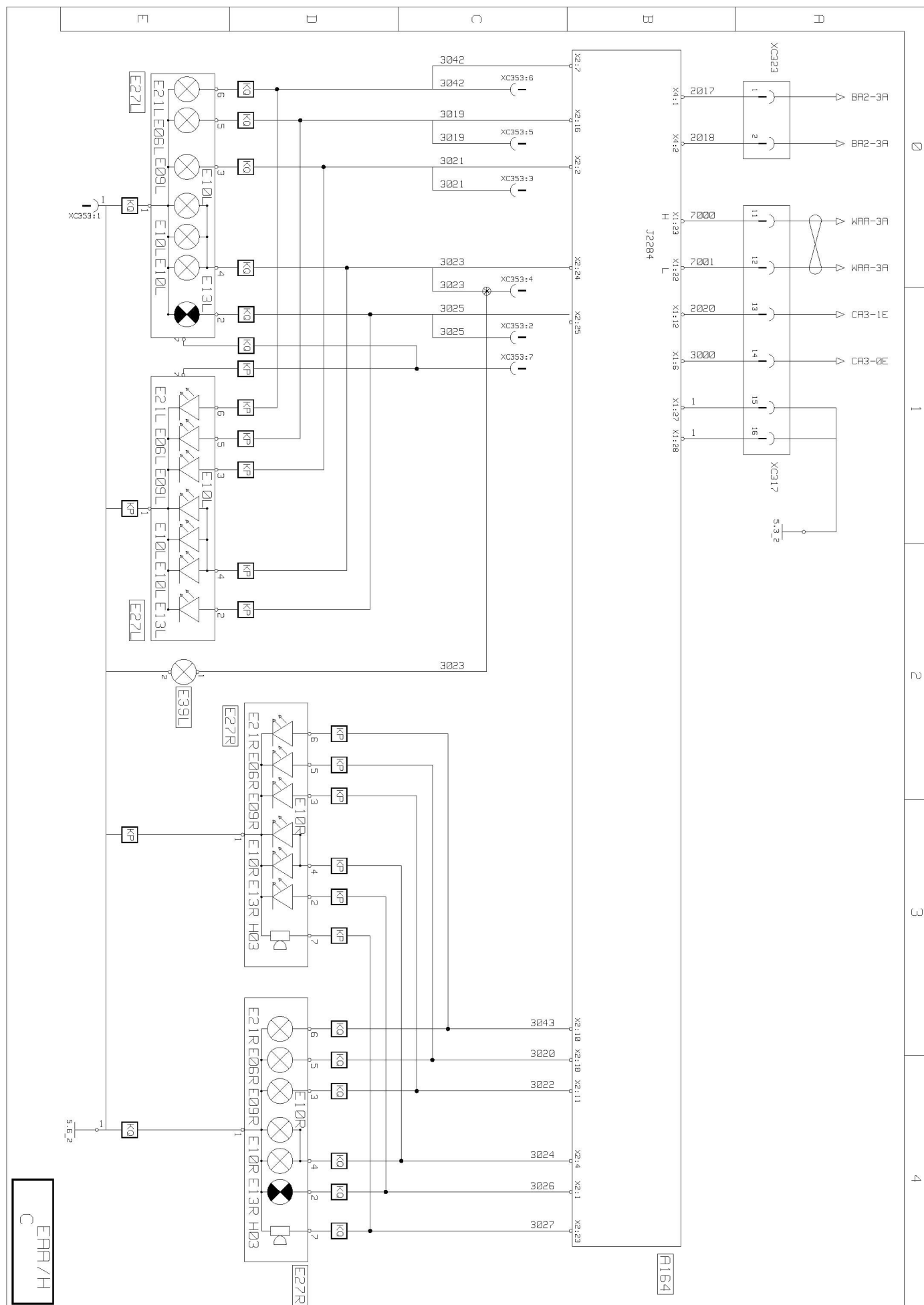


Lighting and signalling – On-site headlamps

Key to devices

Code	Function description	Location
A162	Front chassis area information management control unit (FCIOM)	A2d
E01L	Left-hand main beam headlamp	C1d
E01R	Right-hand main beam headlamp	A1d
E02L	Left-hand dipped beam headlamp	C1d
E02R	Right-hand dipped beam headlamp	A1d
E08L	Left-hand front parking lamp	C1d
E08R	Right-hand front parking lamp	A1d
E13AL	Left-hand side direction indicator light	C1d
E13AR	Right-hand side direction indicator light	A1d
E13FL	Left-hand front direction indicator lamp	C1d
E13FR	Right-hand front direction indicator lamp	A1d
E83BL	Left-hand headlamp insert	C1d
E83BR	Right-hand headlamp insert	A1d
E97L	Fog driving light, LH	C1d
E97R	Fog driving light, RH	A1d
E131L	Daytime running light - left-hand side	C1d
E131R	Daytime running light - right-hand side	A1d
E135L	Left-hand headlamp height adjustment motor	C1d
E135R	Right-hand headlamp height adjustment motor	A1d

Lighting and signalling – Rear lights



Lighting and signalling – Rear lights

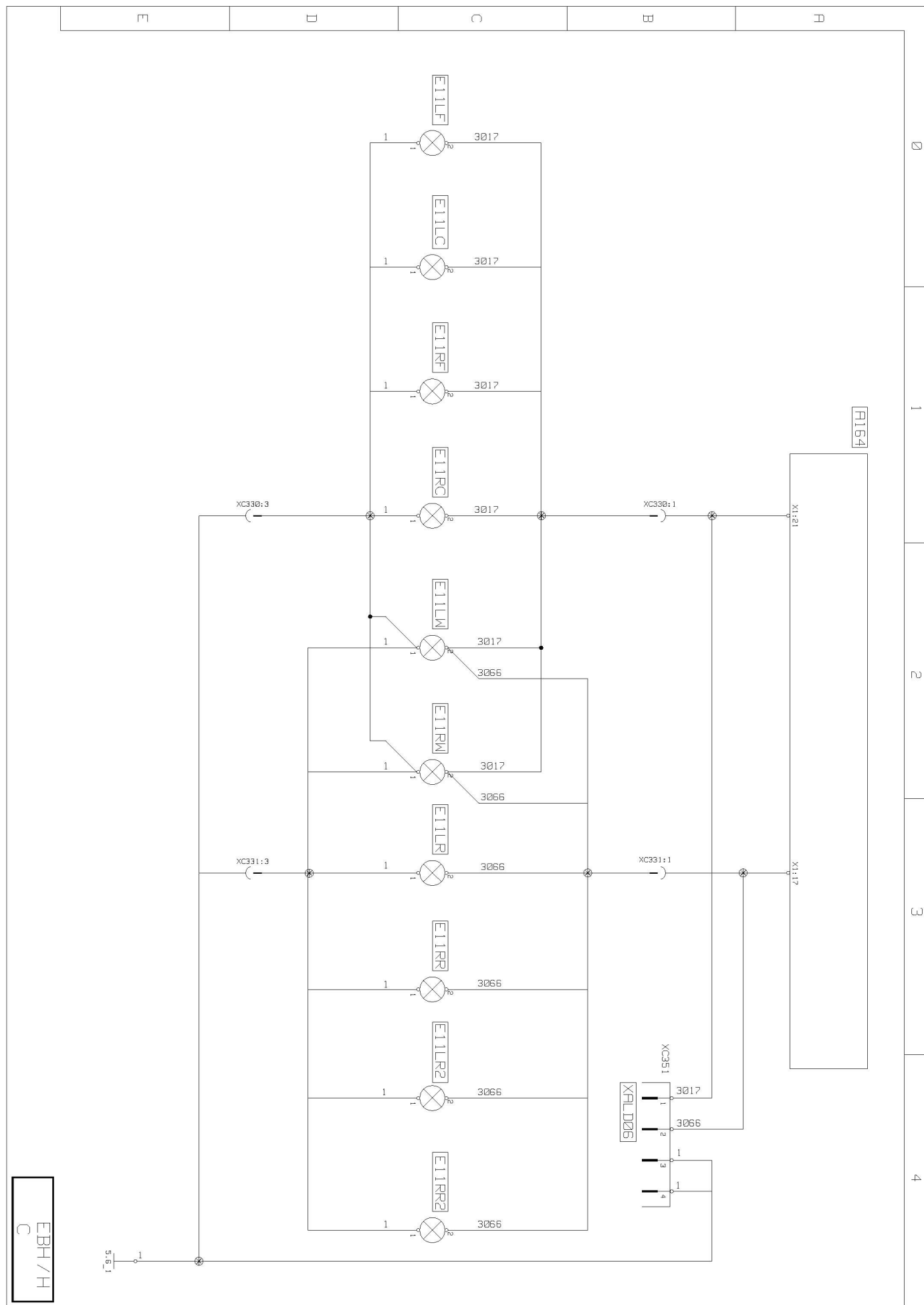
Key to devices

Code	Function description	Location
A164	Rear chassis area information management control unit (RCIOM)	B8d
E06L	Left-hand reverse lamp	C9d
E06R	Right-hand reverse lamp	A9d
E09L	Left-hand brake light	C9d
E09R	Right-hand brake light	A9d
E10L	Left-hand rear parking lamp	C9d
E10R	Right-hand rear parking lamp	A9d
E13L	Left-hand rear direction indicator lamp	C9d
E13R	Right-hand rear direction indicator lamp	A9d
E21L	Left-hand fog light	C9d
E21R	Right-hand fog light	A9d
E27L	Left-hand tail lights unit	C9d
E27R	Right-hand tail lights unit	A9d
E39L	Registration plate left-hand side lighting lamp	C9d
H03	Reversing audible warning	A9d

KP : with LED lighting

KQ : without LED lighting

Lighting and signalling – Side parking lights

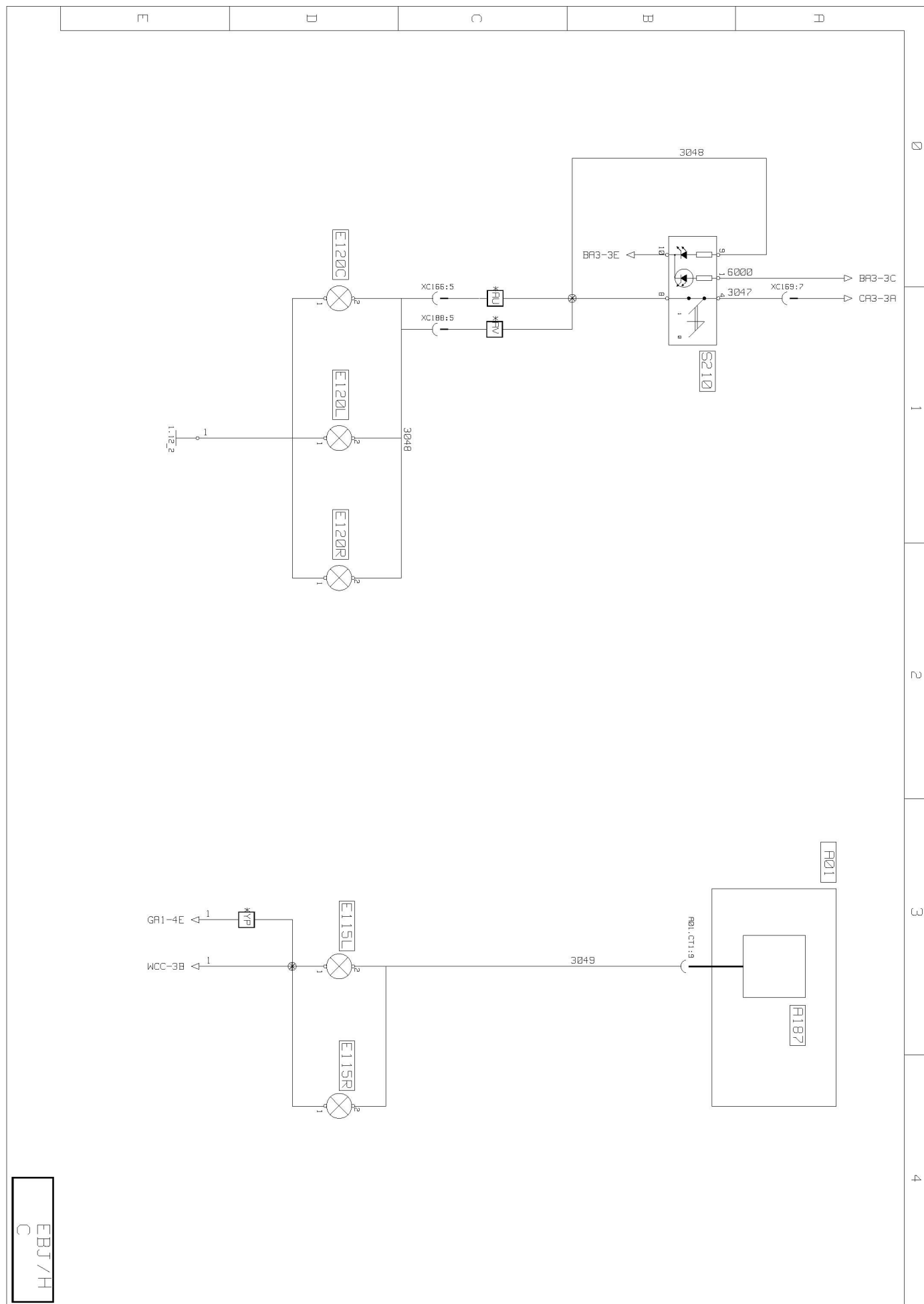


Lighting and signalling – Side marker lights

Key to devices

Code	Function description	Location
A164	Rear chassis area information management control unit (RCIOM)	B8d
E11LC	Side parking lamp - left-hand centre	C5d
E11LF	Side parking lamp - left-hand front	C4d
E11LR	Side parking lamp - left-hand rear	C8d
E11LR2	Side parking lamp - rear left-hand on trailer	C9d
E11LW	Side parking lamp - left-hand rear wheel	C7d
E11RC	Side parking lamp - right-hand centre	A5d
E11RF	Side parking lamp - right-hand front	A4d
E11RR	Side parking lamp - right-hand rear	A8d
E11RR2	Side parking lamp - rear right-hand on trailer	A9d
E11RW	Side parking lamp - rear right-hand wheel	A7d
XALD06	Available power supply (additional side parking lights)	B6d

Lighting and signalling – Roof-mounted parking lights



EBJ/H
C

Lighting and signalling – Roof-mounted parking lights

Key to devices

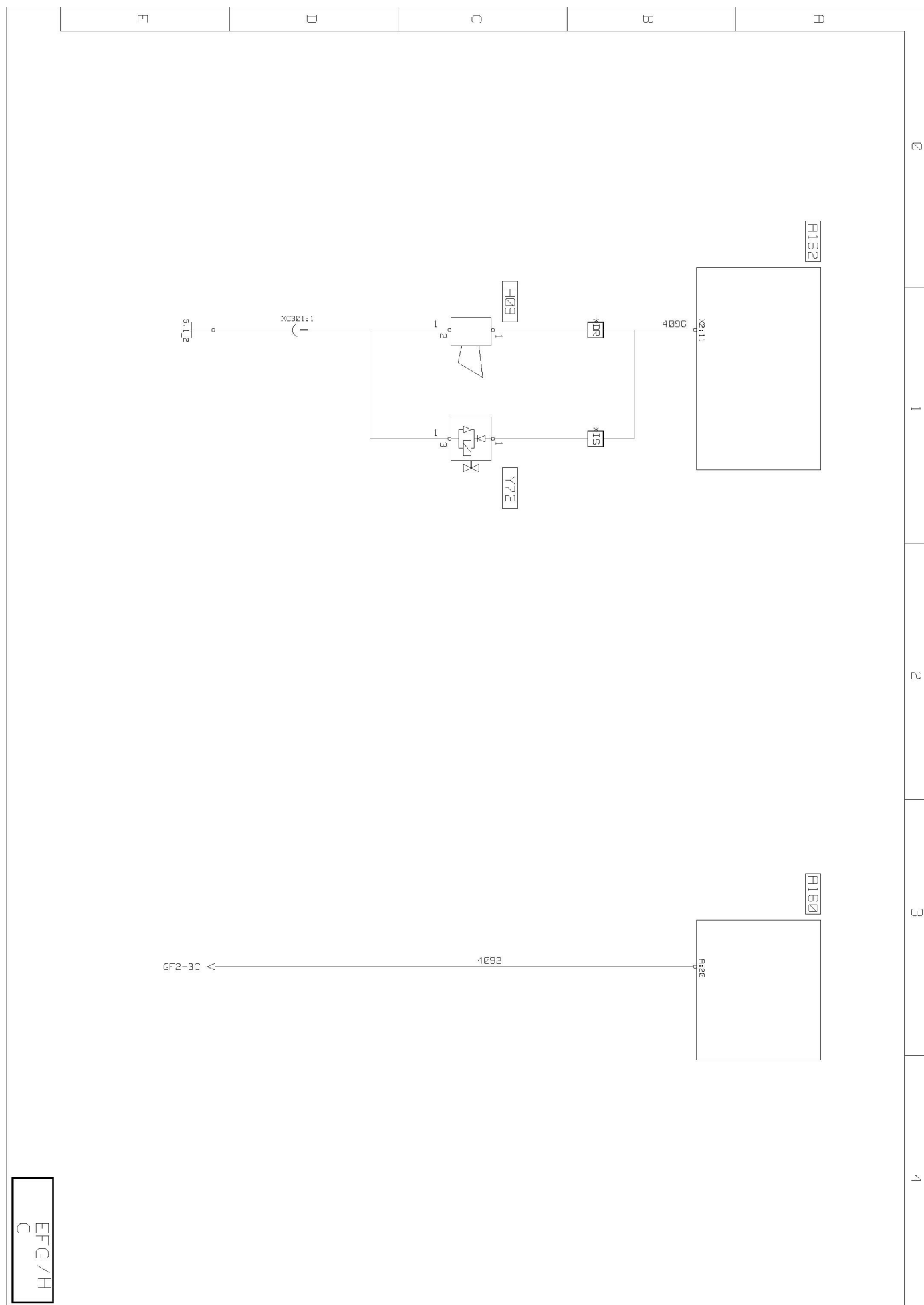
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
E115L	Left-hand marker light	C3a
E115R	Right-hand marker light	A3a
E120C	Central identification light on the roof	B2a
E120L	Left-hand identification light on the roof	C2a
E120R	Right-hand identification light on the roof	C2a
S210	Identification lights on roof control	B2b

AU : left-hand drive

AV : right-hand drive

YP : for vehicles manufactured after **2017/06/04**

Lighting and signalling – Horn



EFG/H
C

Lighting and signalling – Horn

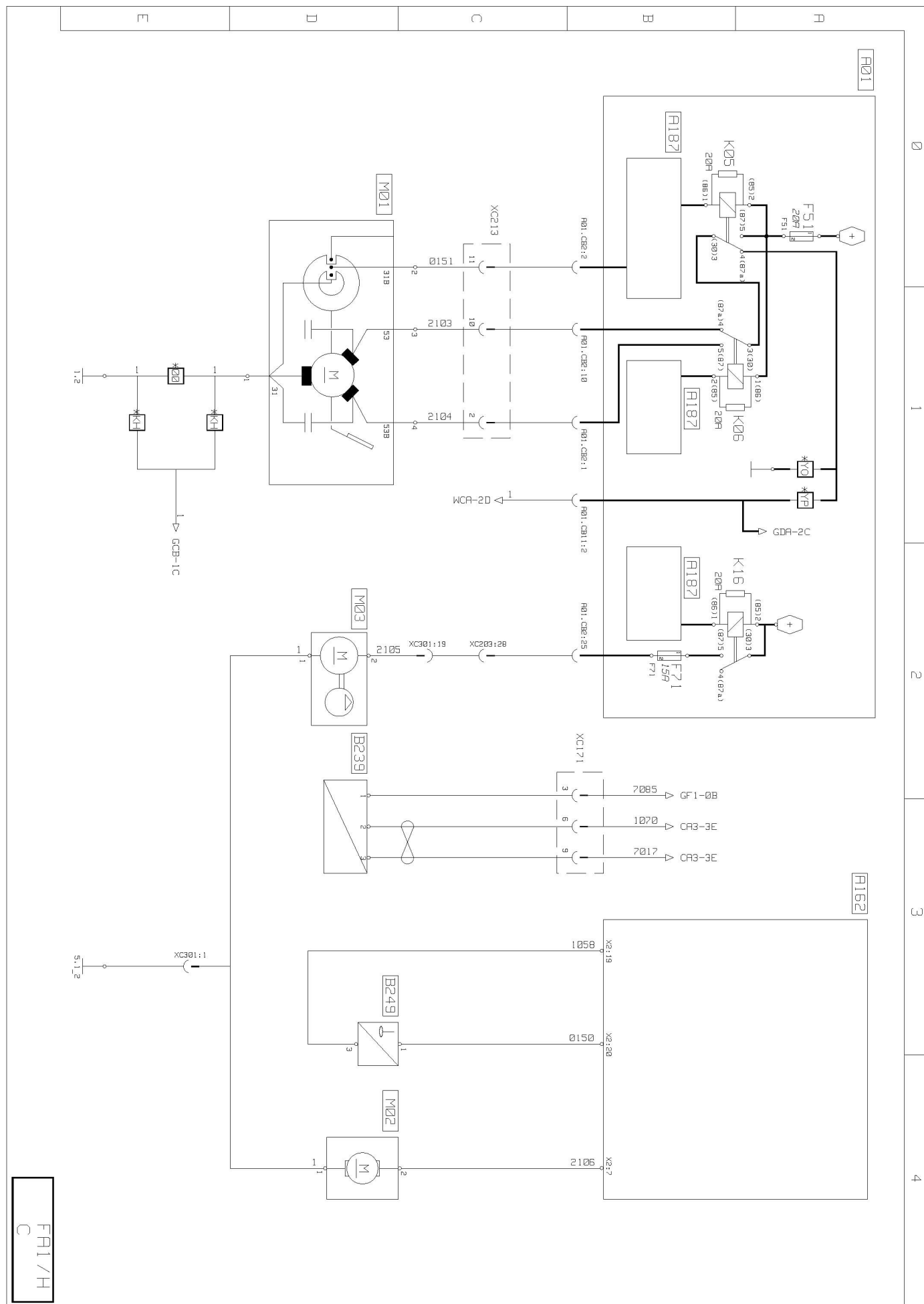
Key to devices

Code	Function description	Location
A160	Cab information management control unit (CIOM)	B2c
A162	Front chassis area information management control unit (FCIOM)	A2d
H09	Electric horn	C2d
Y72	Air horn	C2d

DR : with electric horn

IS : with air horn

Washing and wiping of windows



Washing and wiping of windows

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A162	Front chassis area information management control unit (FCIOM)	A2d
A187	Main vehicle management control unit (VMCU)	B2b
B239	Rain and light detection sensor assembly	B1b
B249	Screen wash level sensor	C2c
K05	Windscreen wiper motor power supply relay	B2b
K06	Wiper motor high or low speed selector relay	B2b
K16	Headlamp washer pump motor power supply relay	B2b
M01	Windscreen wiper motor	B1b
M02	Windscreen washer pump motor	C2c
M03	Headlamp washer pump motor	C2c

00 : other uses

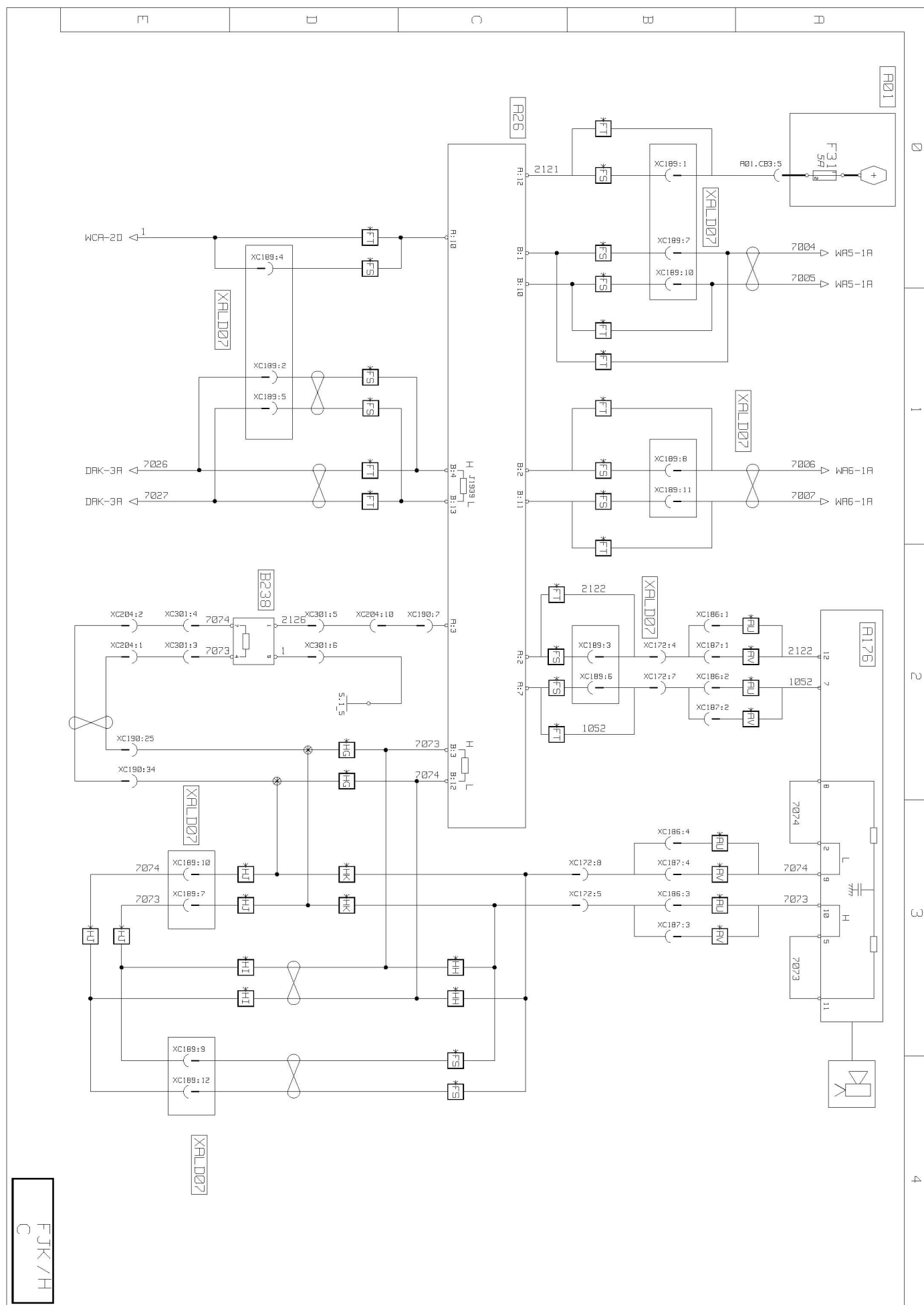
KH : with windscreen de-icing

YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**

	Direct after battery power supply.
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Driving assist - Driving radar (before 04/06/2018)



FJK/H
C

Driving assist - Driving radar (before 04/06/2018)

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A26	Driving assist management control unit (DACU)	B2c
A176	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
B238	Object detection and distance radar sensor (FLS)	B1d
XALD07	Available power supply (pre-equipment for driving assistance)	B2c

AU : left-hand drive

AV : right-hand drive

FS : with pre-equipment for driving assistance system

FT : without pre-equipment for driving assistance system

HG : with object detection and distance radar sensor (**FLS**)

HH : with camera unit plus object detection and lane change sensors (**LPOS**) and without object detection and distance radar sensor (**FLS**)

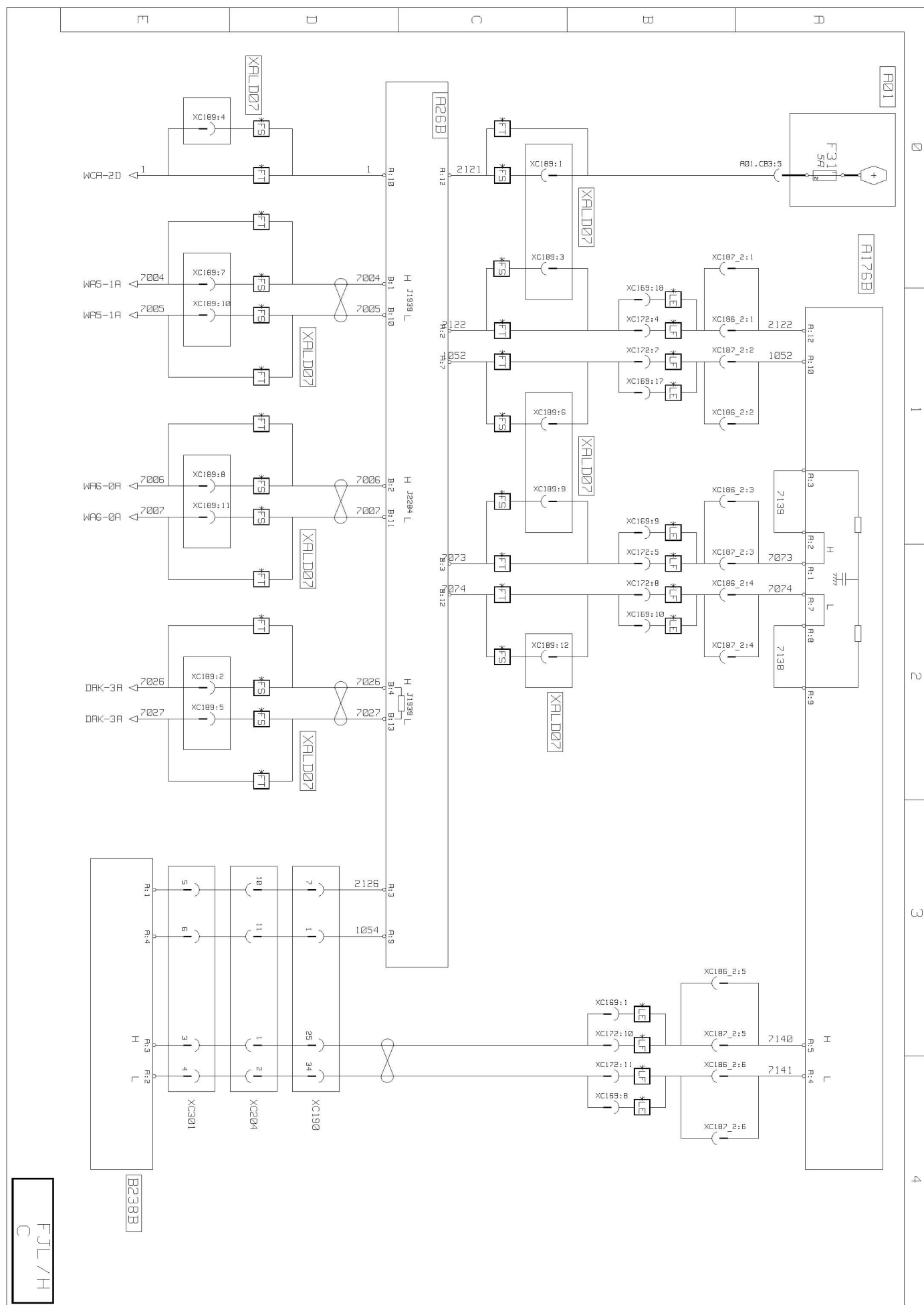
HI : with pre-equipment for the driving assist system and without object detection and distance radar sensor (**FLS**)

HJ : with pre-equipment for the driving assist system and with object detection and distance radar sensor (**FLS**)

HK : with camera unit plus object detection and lane change sensors (**LPOS**) and with object detection and distance radar sensor (**FLS**)

	Direct after battery power supply.
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Driving assist - Driving radar (after 03/06/2018)



Driving assist - Driving radar (after 03/06/2018)

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A26B	Driving assist management control unit (DACU)	B2c
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	B1a
B238B	Object detection and distance radar sensor (FLS)	B1d
XALD07	Available power supply (pre-equipment for driving assistance)	B2c

- FS** : with pre-equipment for driving assistance system
- FT** : without pre-equipment for driving assistance system
- LE** : with entertainment service module
- LF** : with audio system module



Life on board – Cab compartment lighting - Standard production

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A162	Front chassis area information management control unit (FCIOM)	A2d
A187	Main vehicle management control unit (VMCU)	B2b
E99L	Left-hand side bunk lighting lamp	C3a
E99R	Right-hand side bunk lighting lamp	A3a
E100L	Lighting unit, left-hand cabin light (environment)	B3a
E100R	Lighting unit, right-hand cabin light (environment)	B3a
E101L	Reading light, left-hand side	B2a
E101R	Reading light, right-hand side	B2a
E102	Instrument panel lighting (ambiance)	B2b
E103C	Centre console light (ambiance)	B2a
E103L	Left-hand console light (ambiance)	C2a
E103R	Right-hand console light (ambiance)	A2a
E104	Light for storage compartment under bunk no. 1	C4c
E105	Light for storage compartment under bunk no. 2	A4c
E116L	Directional reading light, left-hand side	C3a
E116R	Directional reading light, right-hand side	A3a
E117C	Light for storage compartment in centre console	B2a
E117L	Light for storage compartment in left-hand console	C2a
E117R	Light for storage compartment in right-hand console	A2a
E119	Driver's side stepwell lighting lamp	C3d
S286C	Centre console lighting contact	B2a
S286L	Left-hand console lighting contact	C2a
S286R	Right-hand console lighting contact	A2a

AU : left-hand drive

AV : right-hand drive

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**

YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**



Life on board – Air/air independent heating

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A211	Air/air independent heater	C3c
BPHF	Flame detector	C3c
BPHT	Overheating safety	C3c
MVCA1	Independent heating fan motor	C3c
RACA1	Independent heater start-up resistor	C3c
Y32	Fuel supply pump motor for independent heating	B5d

AU : left-hand drive

AV : right-hand drive

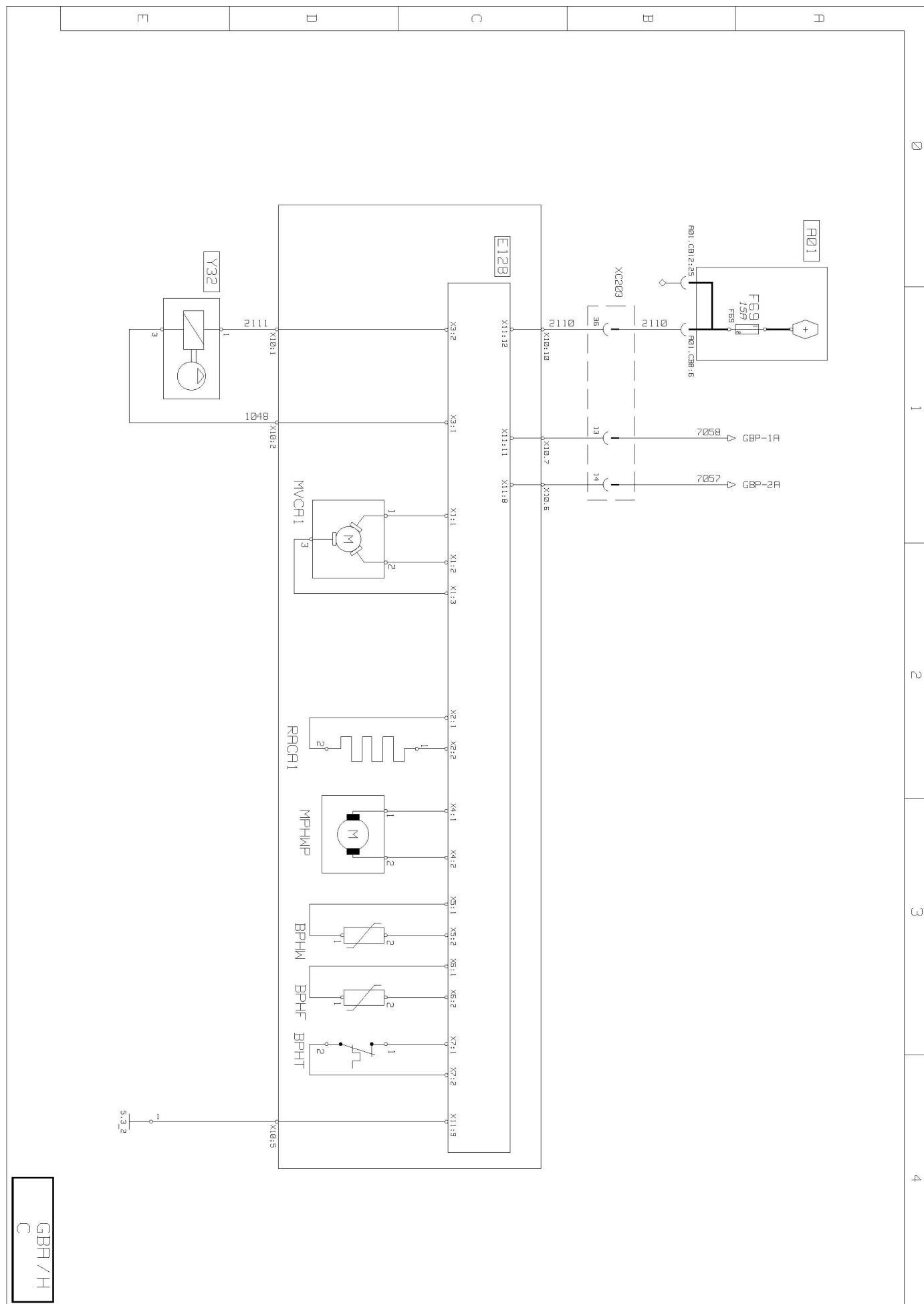
IY : with **4 kW** air/air independent heating

IZ : with **2 kW** air/air independent heating



Direct after battery power supply.

Life on board – Air/water independent heating



GBA/H
C

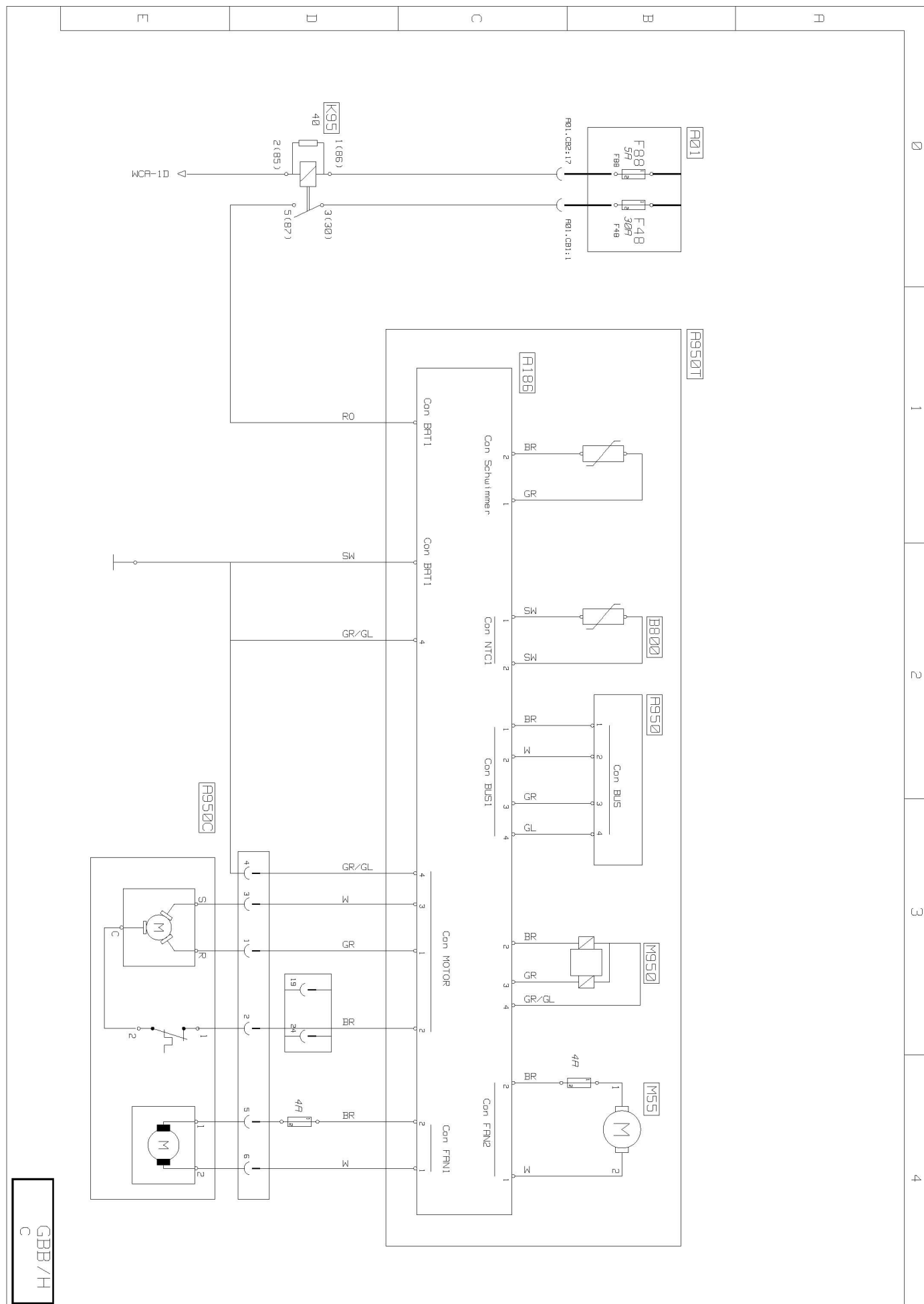
Life on board – Air/water independent heating

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
E128	Air/water independent heater	A3c
BPHF	Flame detector	C3c
BPHW	Engine coolant temperature sensor	A3c
MPHWP	Independent heating water pump motor	A3c
MVCA1	Independent heating fan motor	C3c
RACA1	Independent heater start-up resistor	C3c
Y32	Fuel supply pump motor for independent heating	B5d

	Direct after battery power supply.
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Life on board - Night time air conditioning - SP950



GBB/H
C

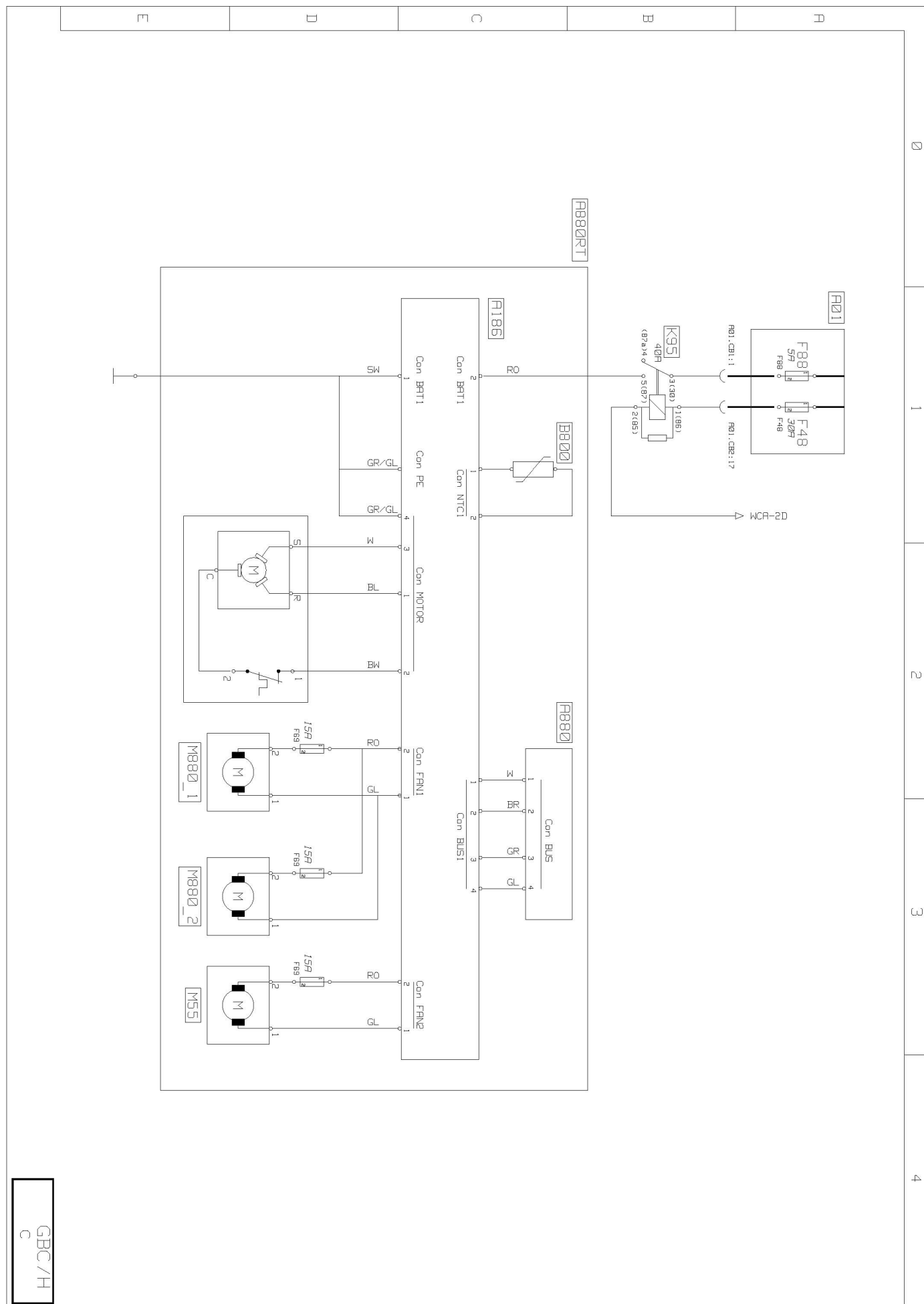
Life on board - Night time air conditioning - SP950

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A186	Night time air conditioning ECU	B3a
A950	Night time air conditioning control panel	B3a
A950C	Night time air conditioning compressor assembly	A3a
A950T	Night time air conditioning equipment assembly	B3a
B800	Night time air conditioning temperature sensor	B3a
K95	Cab master power supply control relay	B2b
M55	Night time air conditioning evaporator motor-driven fan	B3a
M950	Night time air conditioning condenser pump motor	B3a


	Direct after battery power supply
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Life on board - Night time air conditioning - RT880

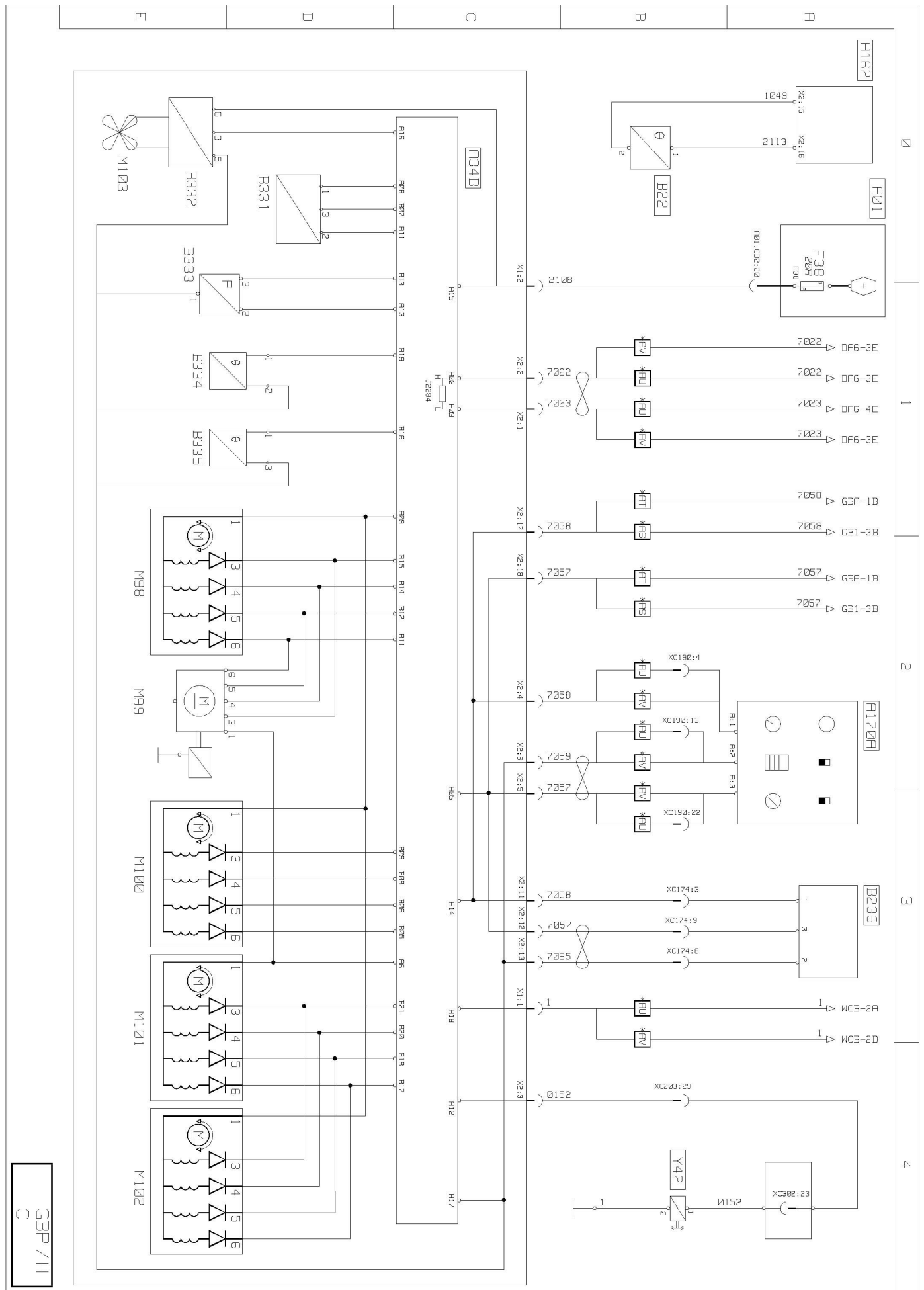


Life on board - Night time air conditioning - RT880

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A186	Night time air conditioning ECU	B3a
A880	Night time air conditioning control panel	B3a
A880RT	Night time air conditioning equipment assembly	B3a
B800	Night time air conditioning temperature sensor	B3a
K95	Cab master power supply control relay	B2b
M55	Night time air conditioning evaporator motor-driven fan	B3a
M880_1	Night time air conditioning condenser motor-driven fan No. 1	B3a
M880_2	Night time air conditioning condenser motor-driven fan No. 2	B3a
	Direct after battery power supply	

Life on board – Air conditioning



GBP / H
C

Life on board – Air conditioning

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A34B	Air conditioning management control unit	A2c
A162	Front chassis area information management control unit (FCIOM)	A2d
A170A	Cab air conditioning control panel	B2b
B22	External temperature sensor	A3c
B236	Mist on windscreen sensor	B1b
B331	Air quality measuring sensor	A2c
B332	Air blower regulator	A2c
B333	Air conditioning gas pressure sensor	A2c
B334	Temperature sensor at evaporator output	A2c
B335	Temperature sensor at air conditioning unit output	A2c
M98	Air recirculation flap motor	A2c
M99	Engine coolant circulation motorised valve motor	A2c
M100	Flap motor for air distribution via central and footwell air vents	A2c
M101	Air mixing flap motor	A2c
M102	Windscreen air distribution flap motor	A2c
M103	Air conditioning air blower motor-driven fan	A2c
Y42	Air conditioning compressor electric clutch	B2d

AS : with air/air independent heating

AT : with air/water independent heating

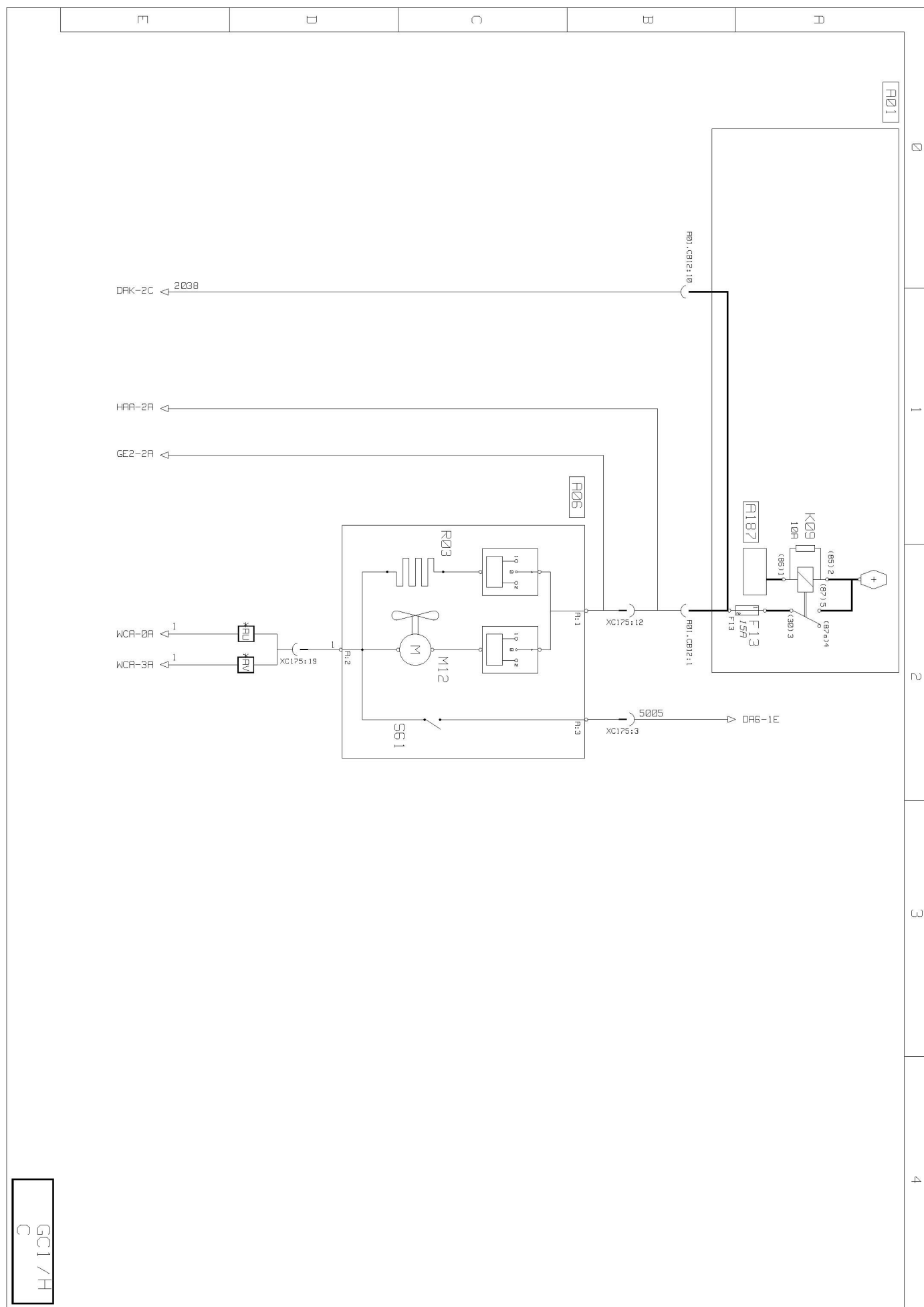
AU : left-hand drive

AV : right-hand drive



Direct after battery power supply.

Life on board – Heated seats



Life on board – Heated seats

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A06	Driver's heated seat unit	C3c
A187	Main vehicle management control unit (VMCU)	B2b
K09	Driver's seat power supply relay	B2b
M12	Heated seat fan motor	C3c
R03	Driver's heated seat resistor	C3c
S61	Position sensor - driver's seat belt fastened	C3c

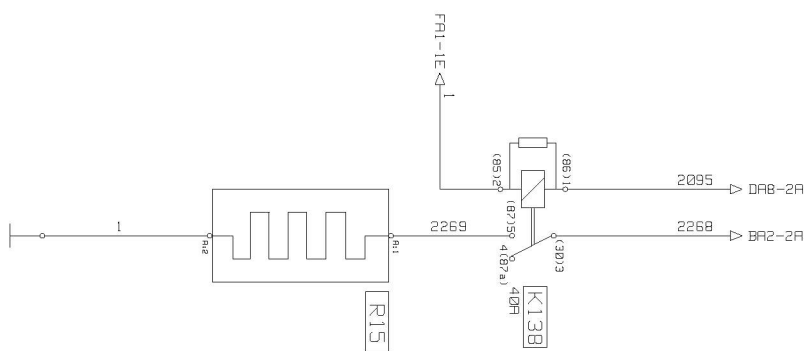
AU : left-hand drive

AV : right-hand drive



Direct after battery power supply.

Life on board - Comfort accessories - Windscreen de-icing



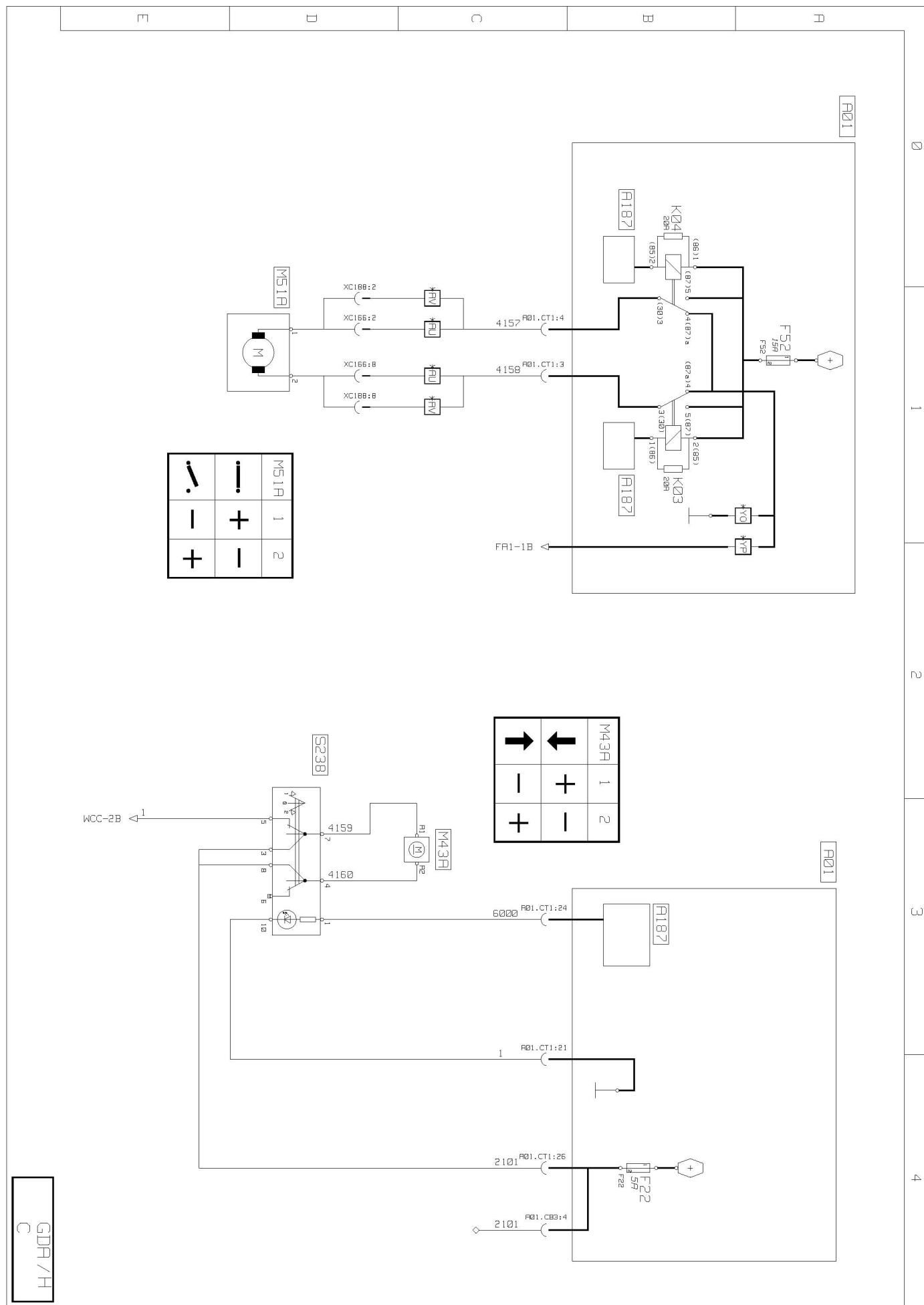
GCB/H
C

Life on board - Comfort accessories - Windscreen de-icing

Key to devices

Code	Function description	Location
K138	Windscreen de-icing resistors power supply relay	C1c
R15	Windscreen de-icing resistor	B1a

Life on board – Sun-roof and sun visor



Life on board – Sun-roof and sun visor

Key to devices

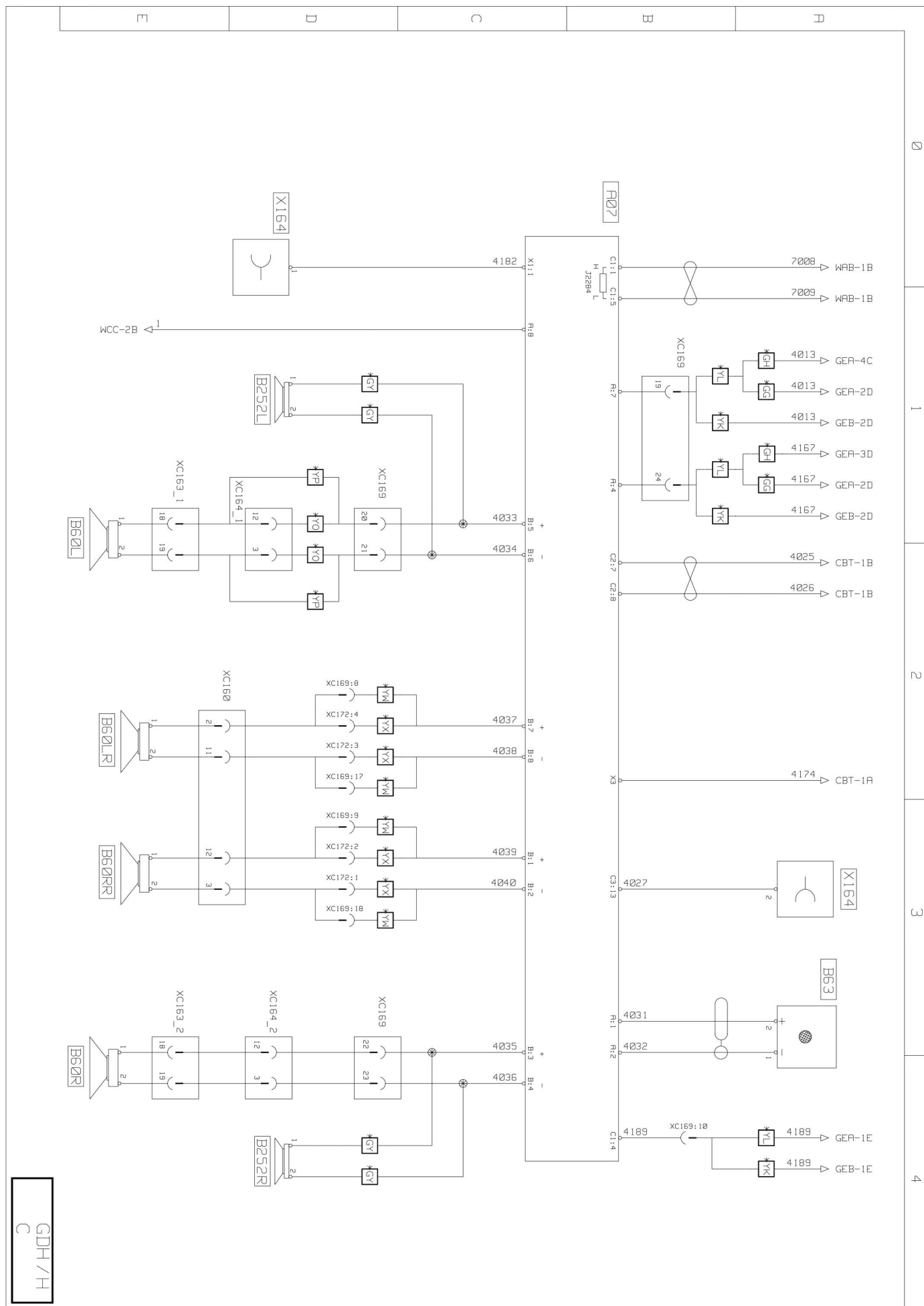
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
K03	Sunroof motor power supply relay no. 1	B2b
K04	Sunroof motor power supply relay no. 2	B2b
M43A	Front panel motor	C2a
M51A	Sunroof electric motor	B3a
S238	Passenger side front curtain control	C2a

AU : left-hand drive

AV : right-hand drive

	Direct after battery power supply.
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Life on board – Radio



Life on board – Radio

Key to devices

Code	Function description	Location
A07	Radio set	B2b/C2a
B60L	LH front loudspeaker	C3c
B60LR	Rear left-hand speaker	C4a
B60R	RH front loudspeaker	A3c
B60RR	Rear right-hand speaker	A4a
B63	Microphone	C2a
B252L	Tweeter speaker, left-hand side	C2a
B252R	Tweeter speaker, right-hand side	A2a
X164	USB and auxiliary audio connector	C2a

GG : with **20 A** transformer under the dashboard

GH : with **25 A** transformer under the dashboard

GY : with tweeters

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**

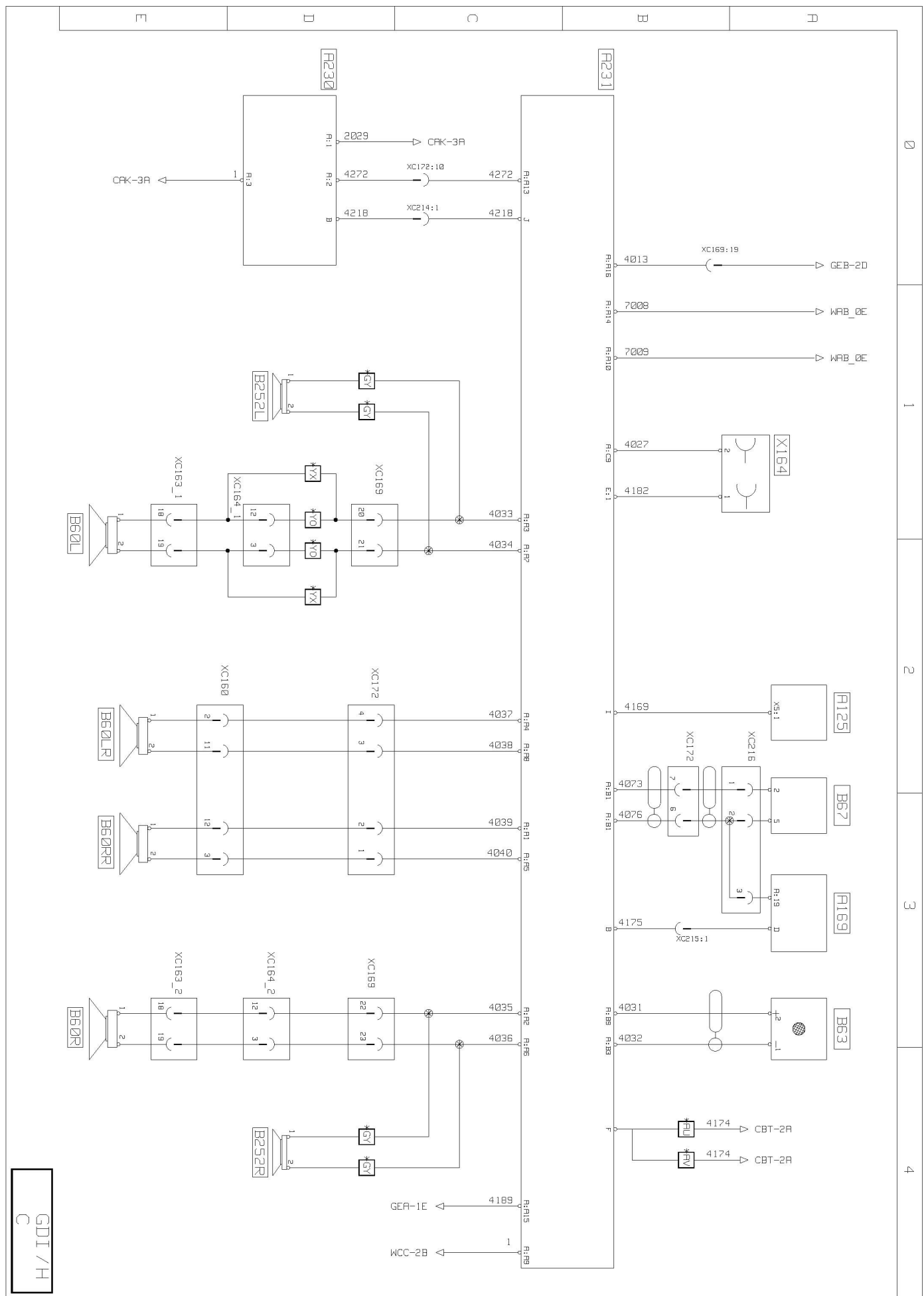
YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**

YW : for vehicles manufactured before 2018/09/10

YX : for vehicles manufactured after 2018/09/09

Life on board - Services and entertainment module



Life on board - Services and entertainment module

Key to devices

Code	Function description	Location
A125	On-board management system interface control unit	B1a
A169	Video control unit (VS)	B2c
A230	Touch screen secondary information display (SID)	B2b
A231	Service and entertainment module (SEM)	B2b
B60L	LH front loudspeaker	C3c
B60R	RH front loudspeaker	A3c
B60LR	Rear left-hand speaker	C4a
B60RR	Rear right-hand speaker	A4a
B63	Microphone	C2a
B67	Vehicle rear visibility assistance camera	-
B252L	Tweeter speaker, left-hand side	C2a
B252R	Tweeter speaker, right-hand side	A2a
X164	USB and auxiliary audio connector	C2a

AU : left-hand drive

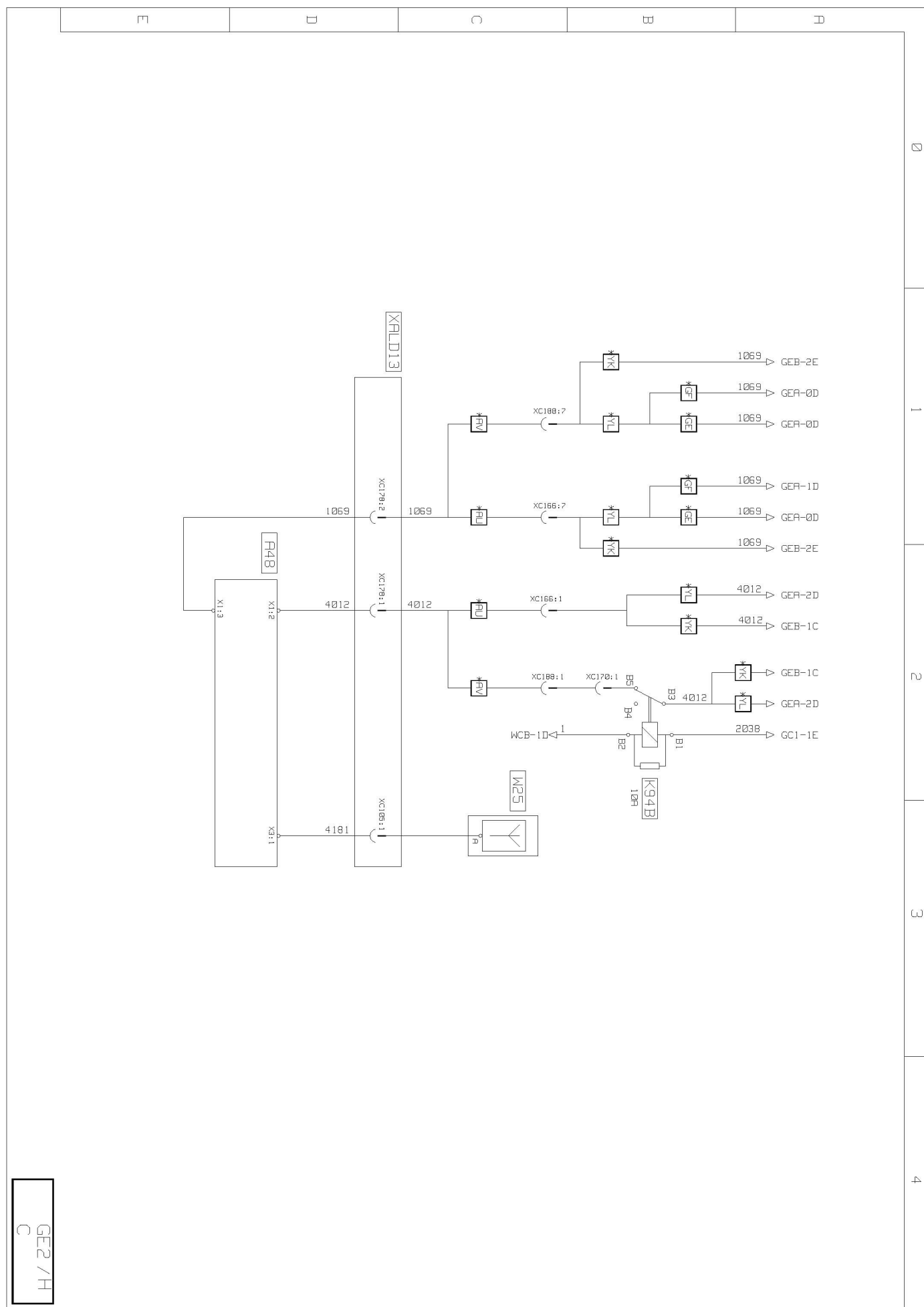
AV : right-hand drive

GY : with tweeters

YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**

Life on board - TV/DVD



GE2 / H
C

Life on board - TV/DVD

Key to devices

Code	Function description	Location
A48	Television set	C4a
K94B	Television inhibitor relay	B2b
W25	Television set antenna	C3a
XALD13	Available power supply (television set pre-equipment)	C3a

AU : left-hand drive

AV : right-hand drive

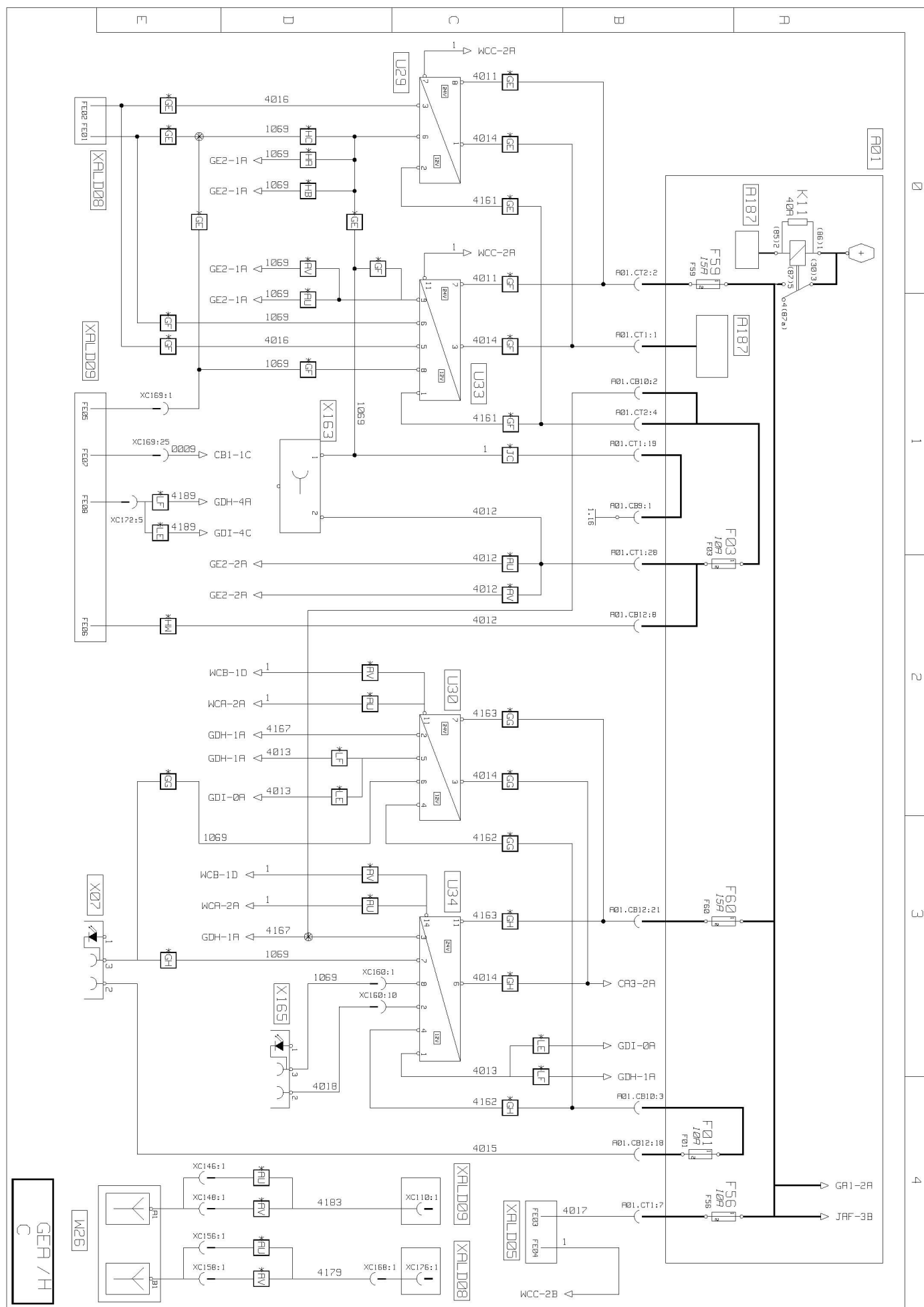
GE : with **11 A** transformer in console

GF : with **20 A** transformer in console

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**

Life on board - 12V sockets and accessories



Life on board - 12V sockets and accessories

Key to devices

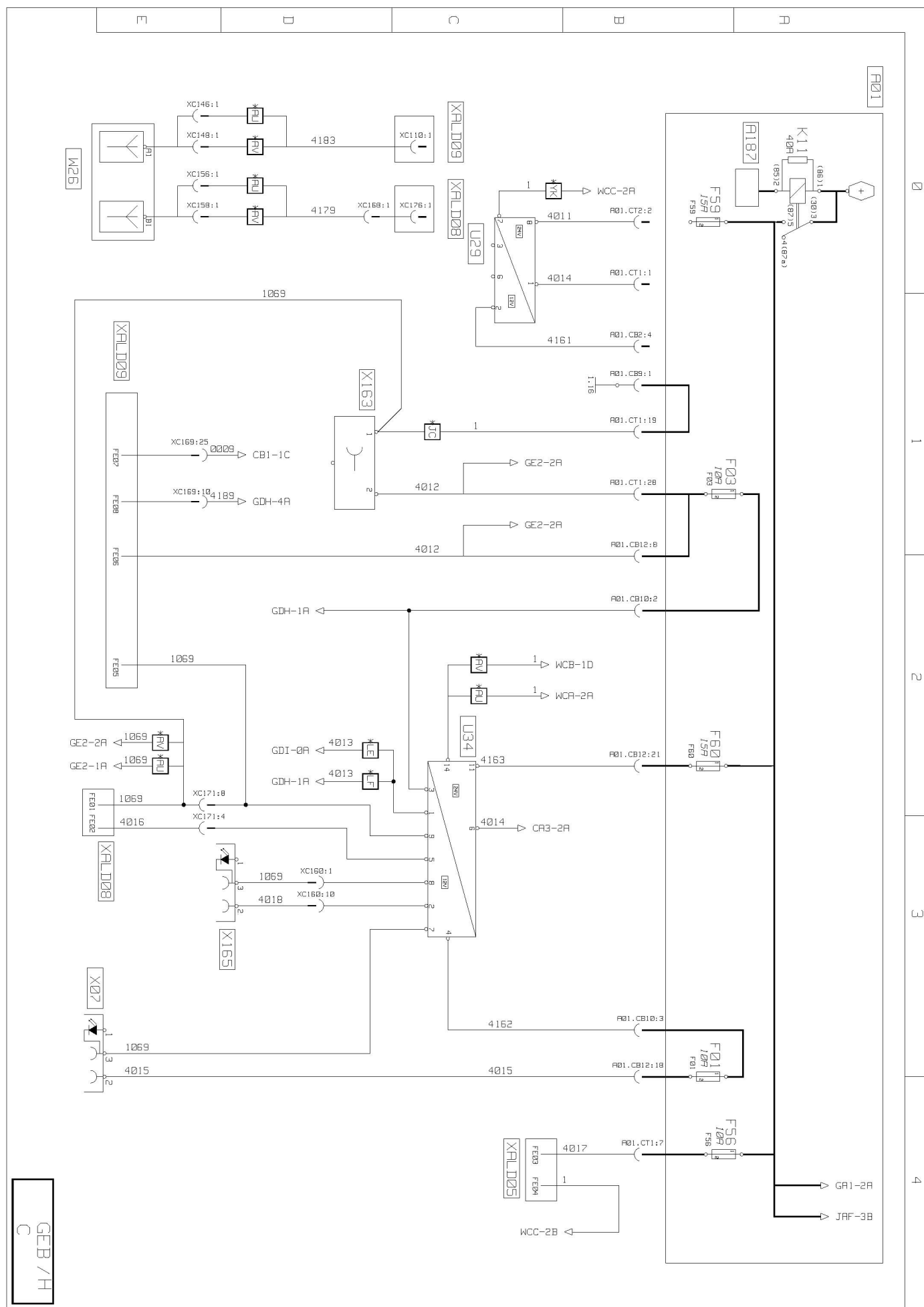
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
K11	12 V accessories power supply relay	B2b
U29	24/12 V - 11 A voltage converter	B1a
U30	24/12 V - 20 A voltage converter	B2c
U33	24/12 V - 20 A voltage converter	B1a
U34	24/12 V - 25 A voltage converter	B2c
W26	CB and GSM antenna	C2a
X07	12 volt power supply socket	B2c
X163	Docking station for mobile telephones	B2c
X165	12 Volts power supply socket on bunk	B4a
XALD05	Available power supply (console accessories)	C2a
XALD08	Available power supply (CB pre-equipment)	C2a
XALD09	Available power supply (Telephone pre-equipment)	B2c

- AU** : left-hand drive
AV : right-hand drive
GE : with **11 A** transformer in console
GF : with **20 A** transformer in console
GG : with **20 A** transformer under the dashboard
GH : with **25 A** transformer under the dashboard
HA : with pre-equipment for **TV-DVD** equipment on left-hand drive
HB : with pre-equipment for **TV-DVD** equipment on right-hand drive
HC : with pre-equipment for **CB** and telephone
HW : with telephone pre-equipment
JC : non-standard equipment
LE : with entertainment service module
LF : with audio system module



Direct after battery power supply.

Life on board - 12V sockets and accessories



Life on board - 12V sockets and accessories

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
K11	12 V accessories power supply relay	B2b
U29	24/12 V - 11 A voltage converter	B1a
U34	24/12 V - 25 A voltage converter	B2c
W26	CB and GSM antenna	C2a
X07	12 volt power supply socket	B2c
X163	Docking station for mobile telephones	B2c
X165	12 Volts power supply socket on bunk	B4a
XALD05	Available power supply (console accessories)	C2a
XALD08	Available power supply (CB pre-equipment)	C2a
XALD09	Available power supply (Telephone pre-equipment)	B2c

AU : left-hand drive

AV : right-hand drive

JC : non-standard equipment

LE : with entertainment service module

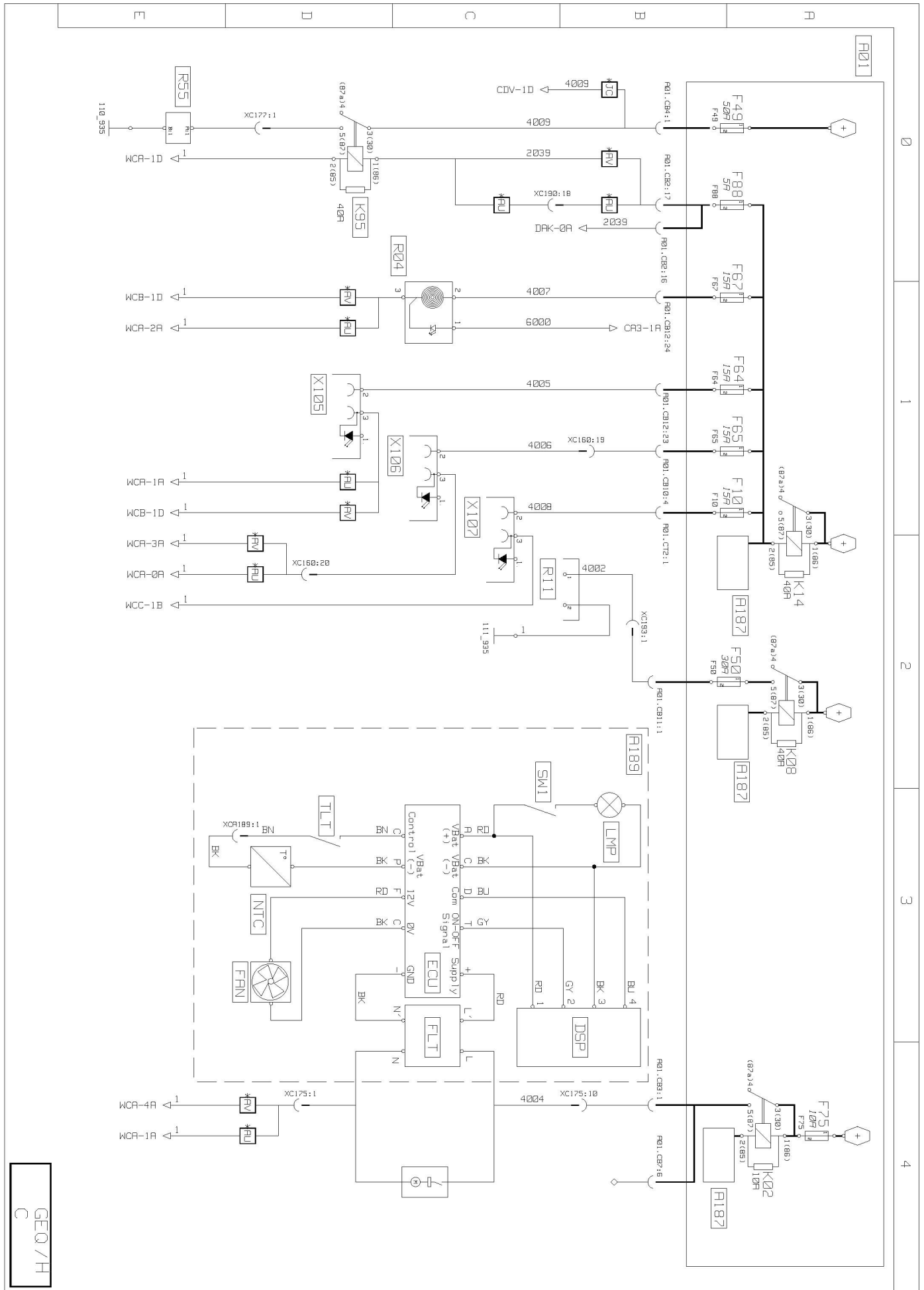
LF : with audio system module

YK : for vehicles manufactured after **2017/03/12**



Direct after battery power supply.

Life on board – Comfort accessories - Accessory sockets



GEQ/H
C

Life on board – Comfort accessories - Accessory sockets

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
A189	Refrigerator	B4c
DSP	Refrigerator setting screen	B4c
ECU	Refrigerator ECU	B4c
FAN	Refrigerator fan	B4c
FLT	Refrigerator supply filter	B4c
K02	Cooling unit power supply relay	B2b
K08	Coffee maker power supply relay	B2b
K14	24 V accessories power supply relay	B2b
K95	Cab master power supply control relay	B2b
LMP	Refrigerator lamp	B4c
NTC	Refrigerator temperature sensor	B4c
R04	Cigar lighter	B2c
R11	Electric coffee maker	-
R55	Microwave oven	-
SW1	Refrigerator lamp control	B4c
TLT	Refrigerator tilt angle sensor	B4c
X105	24 volt power supply socket	B2c
X106	24 volt power supply socket	A4a
X107	24 volt power supply socket	A2a

AU : left-hand drive

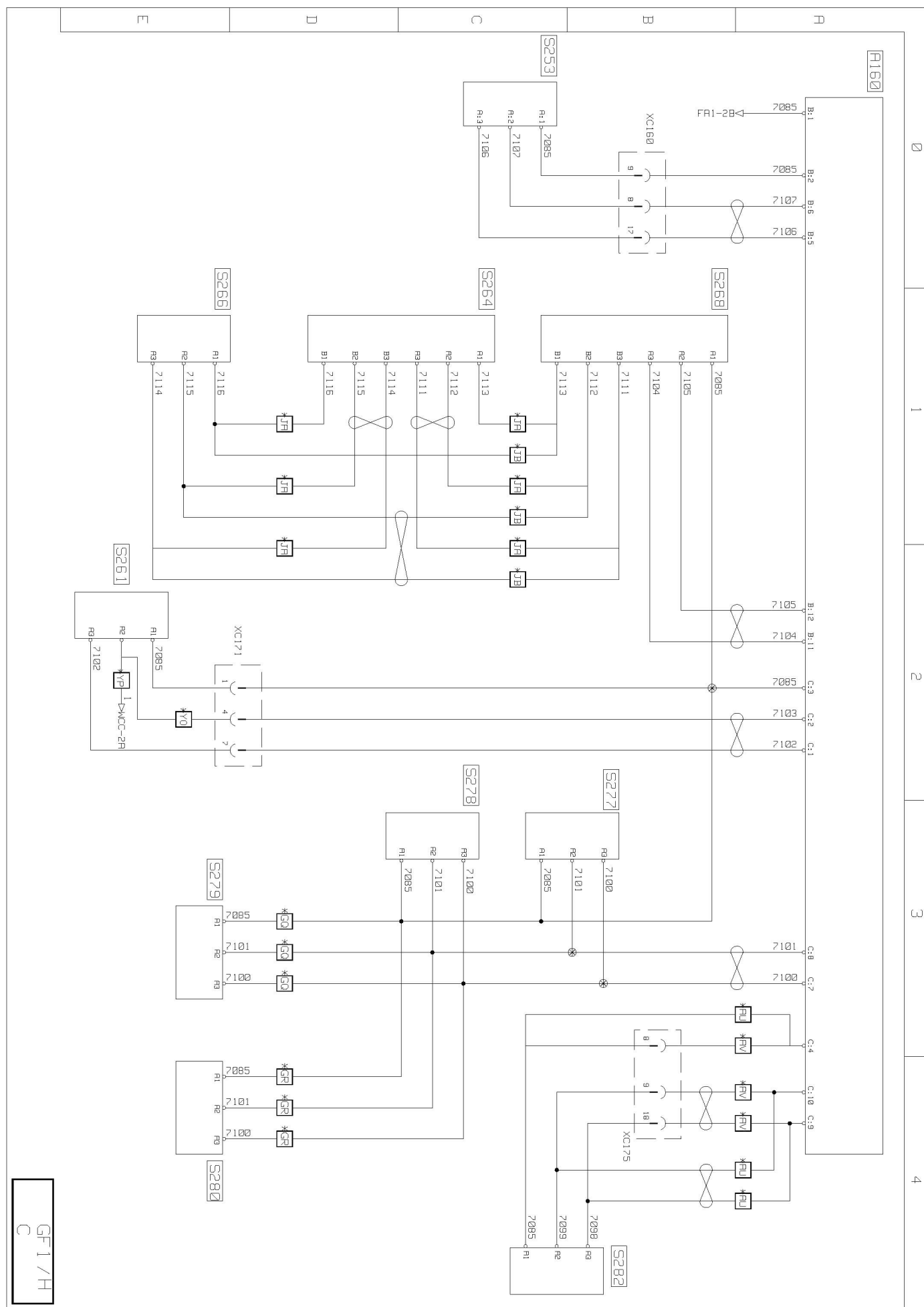
AV : right-hand drive

JC : non-standard equipment



Direct after battery power supply.

Life on board - Control/command 1/2



Life on board - Control/command 1/2

Key to devices

Code	Function description	Location
A160	Cab information management control unit (CIOM)	B2c
S253	Onboard equipment auxiliaries management remote control (LECM)	B4b
S261	Repositionable control unit (group 5)	C2a
S264	Repositionable control unit (group 1)	B2c
S266	Repositionable control unit (group 2)	B2c
S268	Repositionable control unit (group 3)	B2c
S277	External lighting control unit	C2b
S278	Cruise control control assembly	B2c
S279	Differential lock selector control unit	B2c
S280	Cab lighting control	B2c
S282	Air suspension controls assembly	C3c

AU : left-hand drive

AV : right-hand drive

GQ : with differential lock variation control

GR : with passenger compartment lighting dimmer control

JA : with repositionable control unit (group 1)

JB : without repositionable control unit (group 1)

YO : for vehicles manufactured before **2017/06/05**

YP : for vehicles manufactured after **2017/06/04**



Life on board - Control/command (2/2)

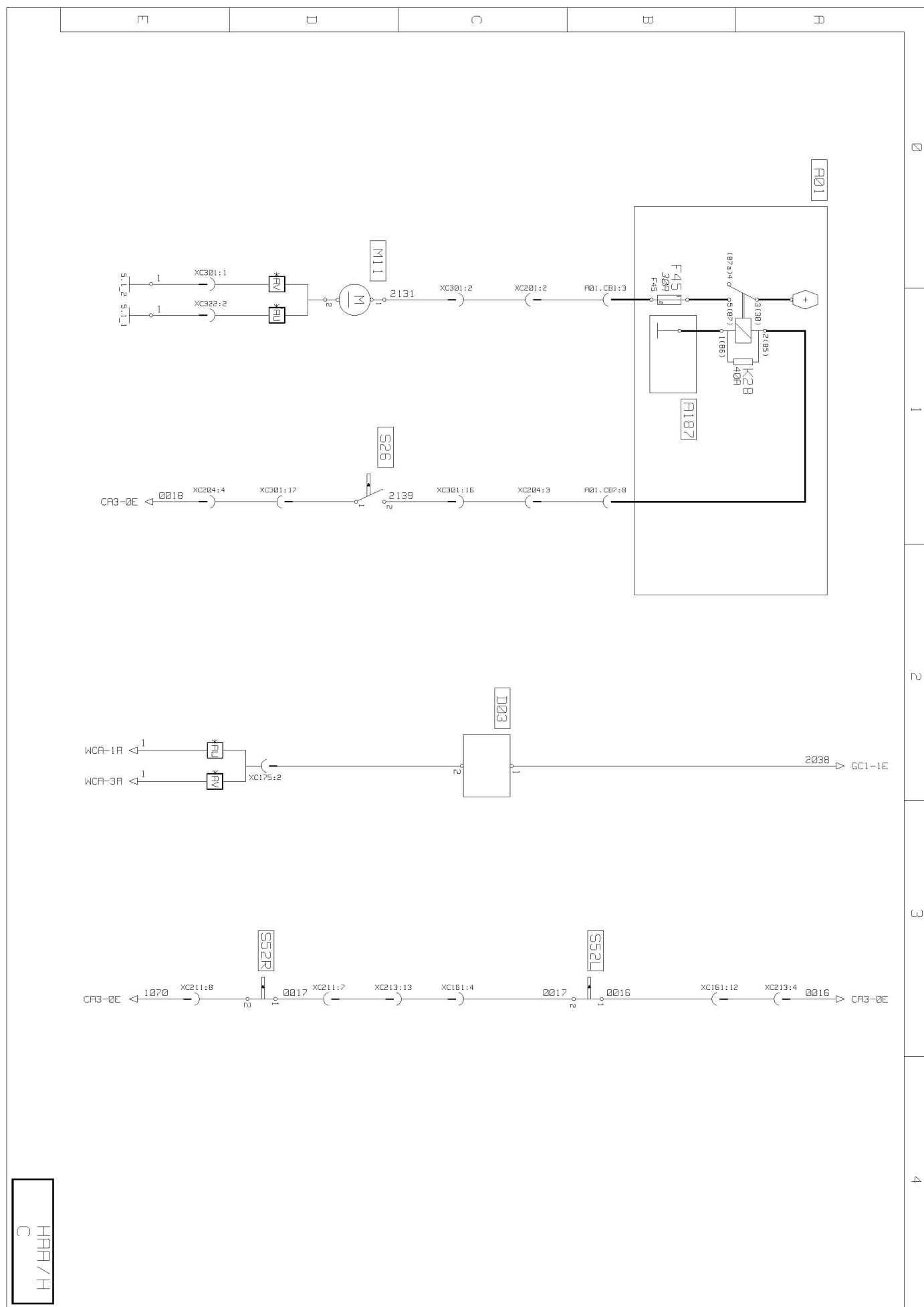
Key to devices

Code	Function description	Location
A161	Man/machine interface management control unit (HMIIOM)	B2c
S274	Steering column-mounted controls	C2b
S276	Steering wheel-mounted controls	C2b
X115C	Rotary switch under steering wheel	C2b

AU : left-hand drive

AV : right-hand drive

Vehicle maintenance – Cab tilt and hour meter



Vehicle maintenance - Cab tilting and hour meter

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
D03	Vehicle hour meter	A3c
K28	Cab tilt motor power supply relay	B2b
M11	Cab tilt motor	A2d
S26	Cab tilt control	A2d
S52L	Left-hand position sensor - cab tilt safety feature	C4c
S52R	Right-hand position sensor - cab tilt safety feature	A4c

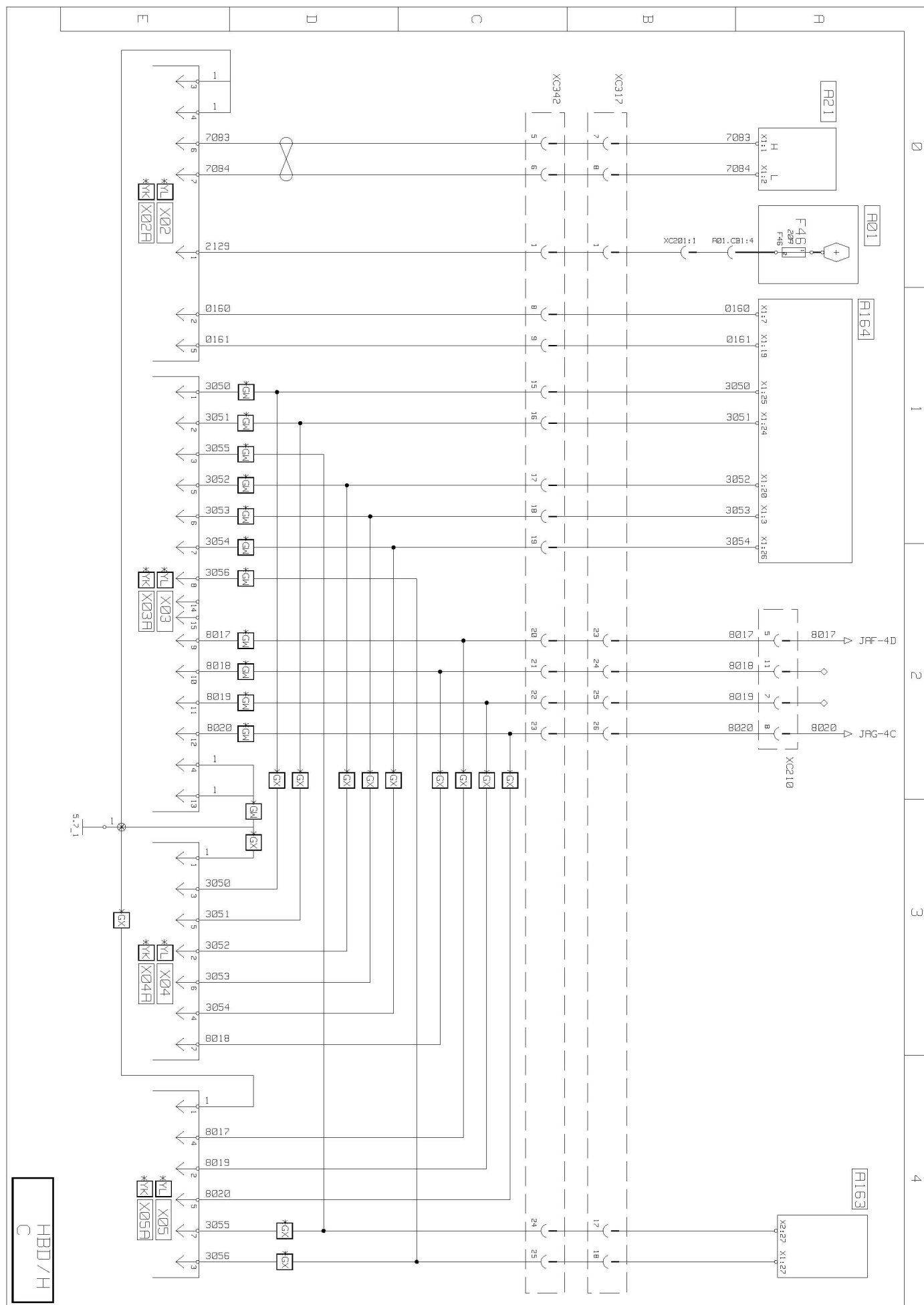
AU : left-hand drive

AV : right-hand drive



Direct after battery power supply.

Trailer connections - Rigid trailer sockets



Trailer connections - Rigid trailer sockets

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A21	Electronic braking system control unit (EBS)	B5d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
X02	7-pin ABS/EBS trailer socket	B9d
X02A	7-pin ABS/EBS trailer socket	B9d
X03	15-pin trailer socket	B9d
X03A	15-pin trailer socket	B9d
X04	Trailer connection (7-pin type 24 N)	B9d
X04A	Trailer connection (7-pin type 24 N)	B9d
X05	Trailer connection (7-pin type 24 S)	B9d
X05A	Trailer connection (7-pin type 24 S)	B9d

GW : with **15**-pin trailer socket

GX : with **2 7**-pin trailer sockets

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**



Direct after battery power supply.



Trailer connections - Tractor trailer sockets

Key to devices

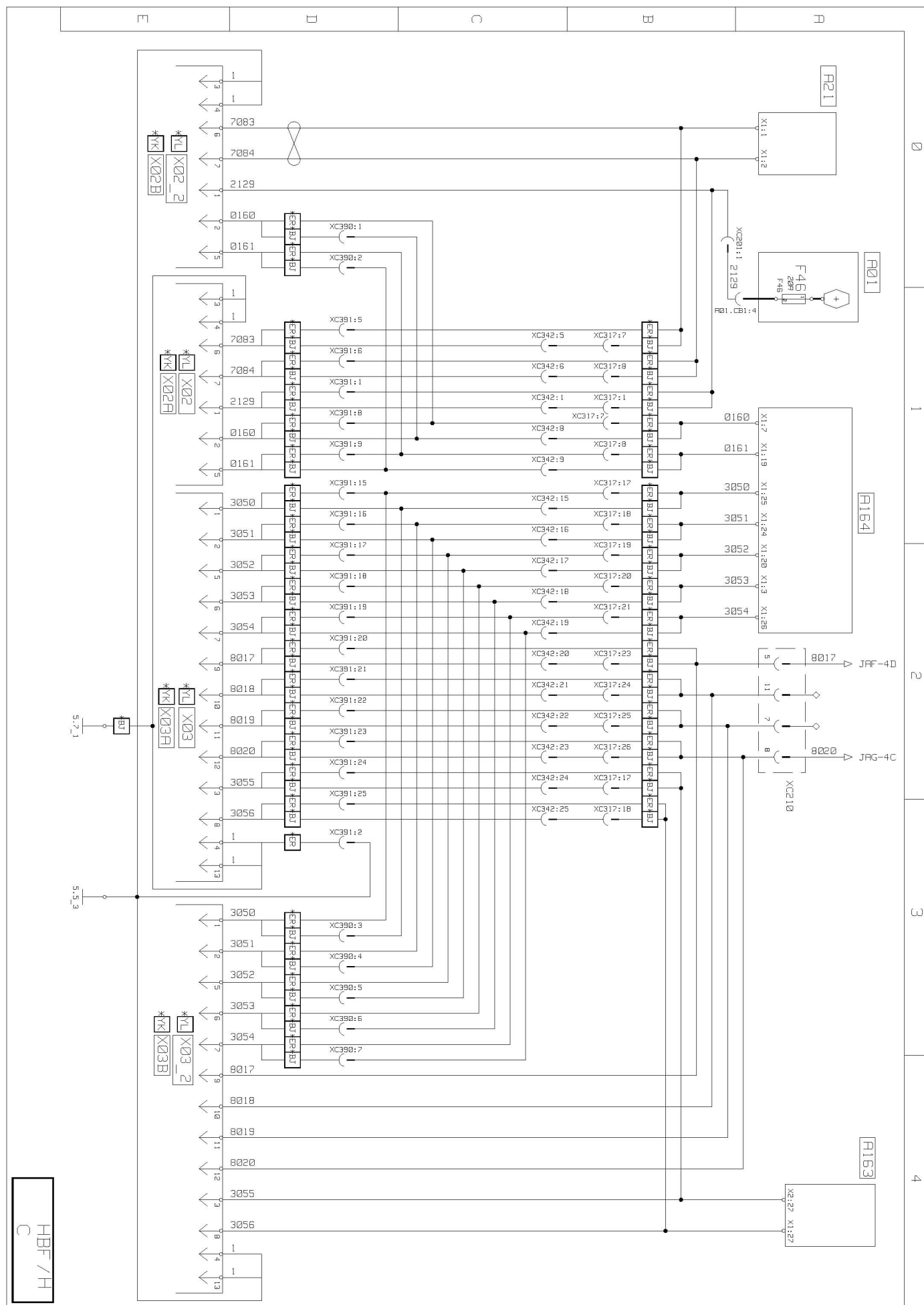
Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A21	Electronic braking system control unit (EBS)	B5d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
X02	7-pin ABS/EBS trailer socket	B9d
X02A	7-pin ABS/EBS trailer socket	B9d
X03	15-pin trailer socket	B9d
X03A	15-pin trailer socket	B9d

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**

	Direct after battery power supply.
------------------------------------------------------------------------------------	------------------------------------

Trailer connections - Trailer sockets - Dual type



HB F / H
C

Trailer connections - Trailer sockets - Dual type

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A21	Electronic braking system control unit (EBS)	B5d
A163	Central chassis area information management control unit (CCIOM)	B6d
A164	Rear chassis area information management control unit (RCIOM)	B8d
X02	7-pin ABS/EBS trailer socket	B9d
X02A	7-pin ABS/EBS trailer socket	B9d
X02_2	7-pin ABS/EBS trailer socket, dual use	B4c
X02B	7-pin ABS/EBS trailer socket, dual use	B4c
X03	15-pin trailer socket	B9d
X03A	15-pin trailer socket	B9d
X03_2	15-pin trailer socket, dual use	B4c
X03B	15-pin trailer socket, dual use	B4c

BJ : rigid vehicles with trailer

ER : tractor vehicles

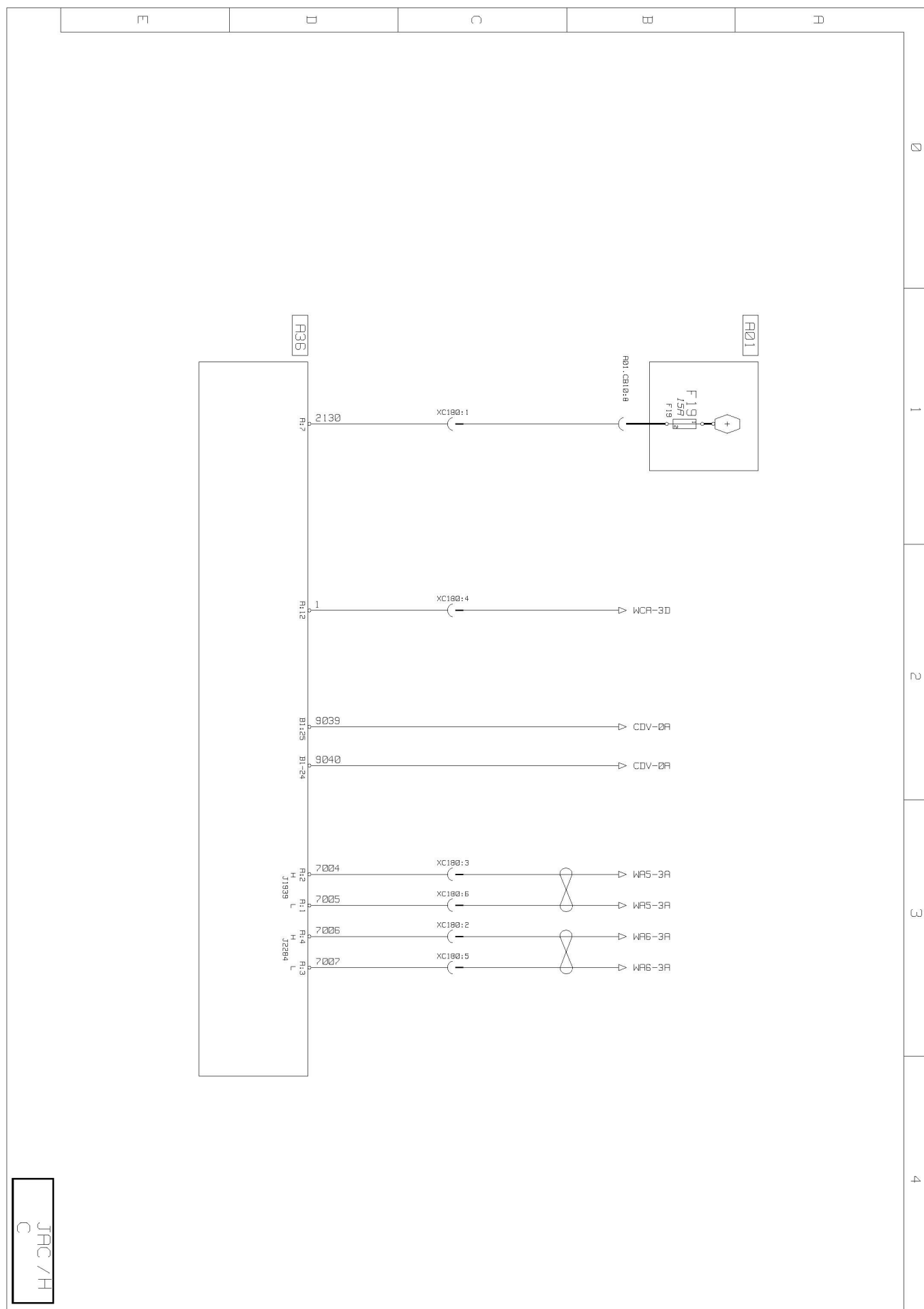
YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**



Direct after battery power supply.

Body builder system management - Body builder pre-equipment ECU



T3136096

Body builder system management - Body builder pre-equipment ECU

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A36	Body builder pre-equipment management control unit (BBM)	B2c

	Direct after battery power supply.
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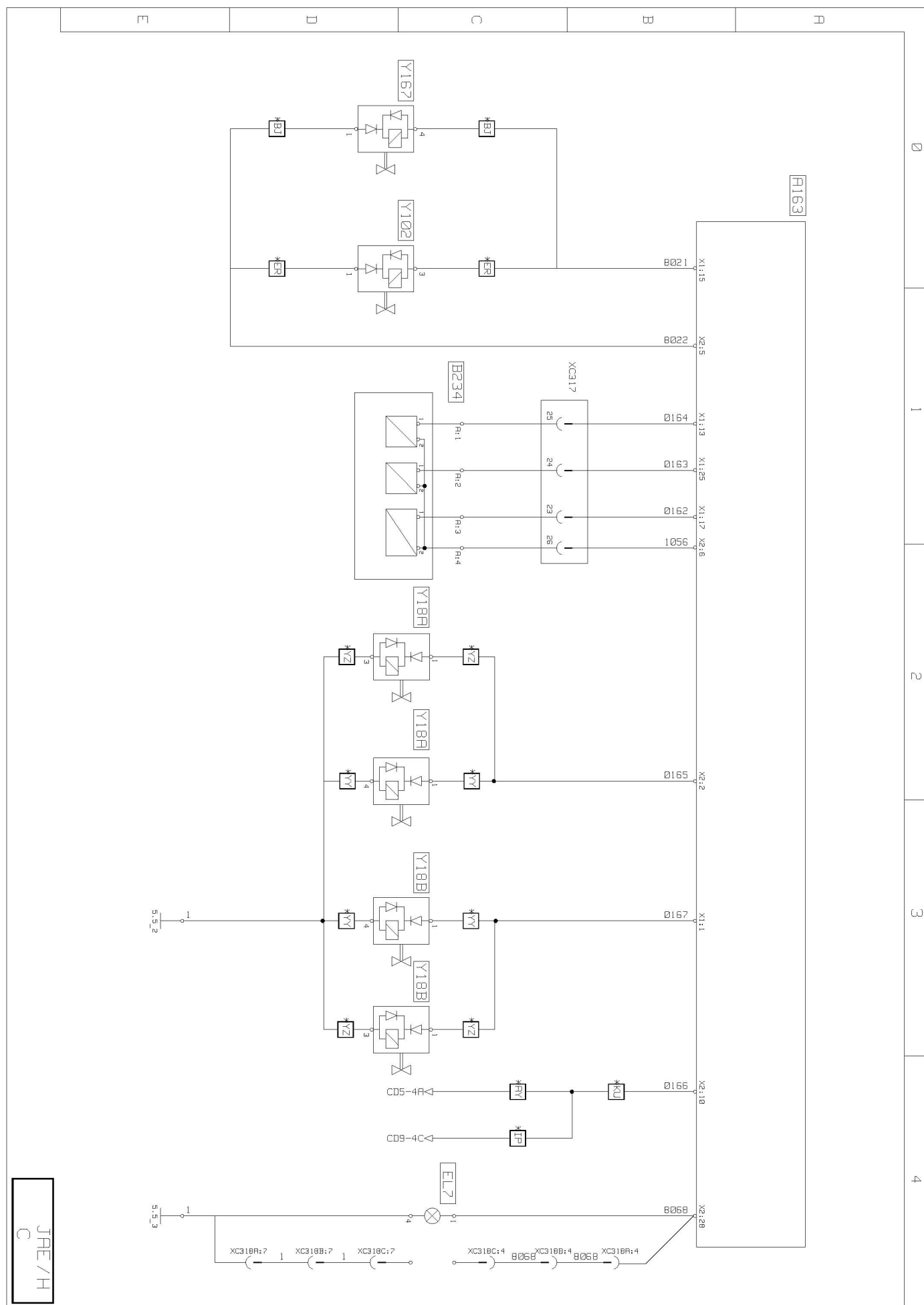
Body builder system management – Main ECU

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b

	Direct after battery power supply.
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Body builder system management – Central chassis ECU



Body builder system management – Central chassis ECU

Key to devices

Code	Function description	Location
A163	Central chassis area information management control unit (CCIOM)	B6d
B234	Fifth wheel position sensor assembly	B6d
EL7	Trailer hitch area spotlamp	A4a
Y18A	Power take-off no. 1 engagement solenoid valve	B5d
Y18B	Power take-off no. 2 engagement solenoid valve	B5d
Y102	Fifth wheel hitch release solenoid valve	B6d
Y167	Container locking solenoid valve	B6d

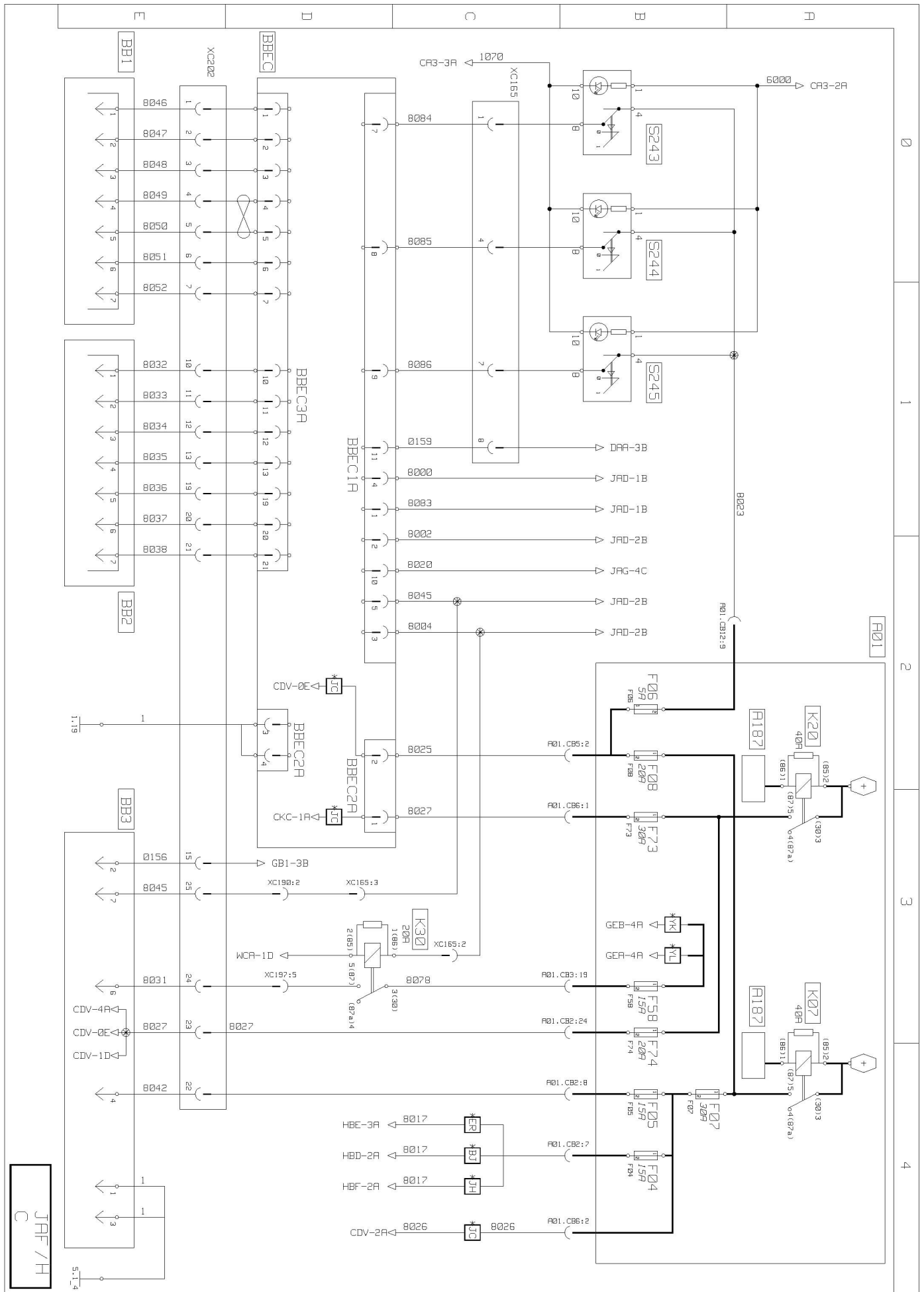
AY : with manual gearbox

BJ : rigid vehicles with trailer

ER : tractor vehicles

IP : with automated manual transmission

Body builder system management – Electrical distribution box



Body builder system management – Electrical distribution box

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
BB1	Body builder pre-equipment connector no. 1	B6d
BB2	Body builder pre-equipment connector no. 2	B6d
BB3	Body builder pre-equipment connector no. 3	B6d
BBEC	Central electrical distribution box for body builder pre-equipment	B2c
BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	B2c
BBEC2A	Central electrical distribution box for body builder pre-equipment connector no. 2	B2c
BBEC3A	Central electrical distribution box for body builder pre-equipment connector no. 3	B2c
K07	Trailer and body builder pre-equipment main power supply relay	B2b
K20	Body builder pre-equipment power supply relay	B2b
K30	Rotating beacon power supply relay	B2c
S243	Body builder pre-equipment control no. 1	C2c
S244	Body builder pre-equipment control no. 2	C2c
S245	Body builder pre-equipment control no. 3	C2c

BJ : rigid vehicles with trailer

ER : tractor vehicles

JC : non-standard equipment

JH : dual use

YK : for vehicles manufactured after **2017/03/12**

YL : for vehicles manufactured before **2017/03/12**



Direct after battery power supply.



Body builder system management – Supplementary lighting

Key to devices

Code	Function description	Location
A01	Electrical distribution box in cab	B2b
A187	Main vehicle management control unit (VMCU)	B2b
EL3	Working area spotlight	B4a
EL4AL	Left-hand rotary beacon on roof	C2a
EL4AR	Right-hand rotary beacon on roof	A2a
K10	Additional lights power supply relay no. 1	B2b
K12	Additional lights power supply relay no. 2	B2b
K13	Rotating beacon power supply relay	B2b
K19	Trailer signal lighting power supply relay	B2b
K94A	Working spotlight power supply relay	B2c
XALD01	Available power supply (additional external lighting on roof)	C3a
XALD02	Available power supply (additional front panel external lighting)	C2a
XALD10	Available power supply (working area spotlight)	B4a

- AU** : left-hand drive
AV : right-hand drive
BJ : rigid vehicles with trailer
ER : tractor vehicles
JH : dual use

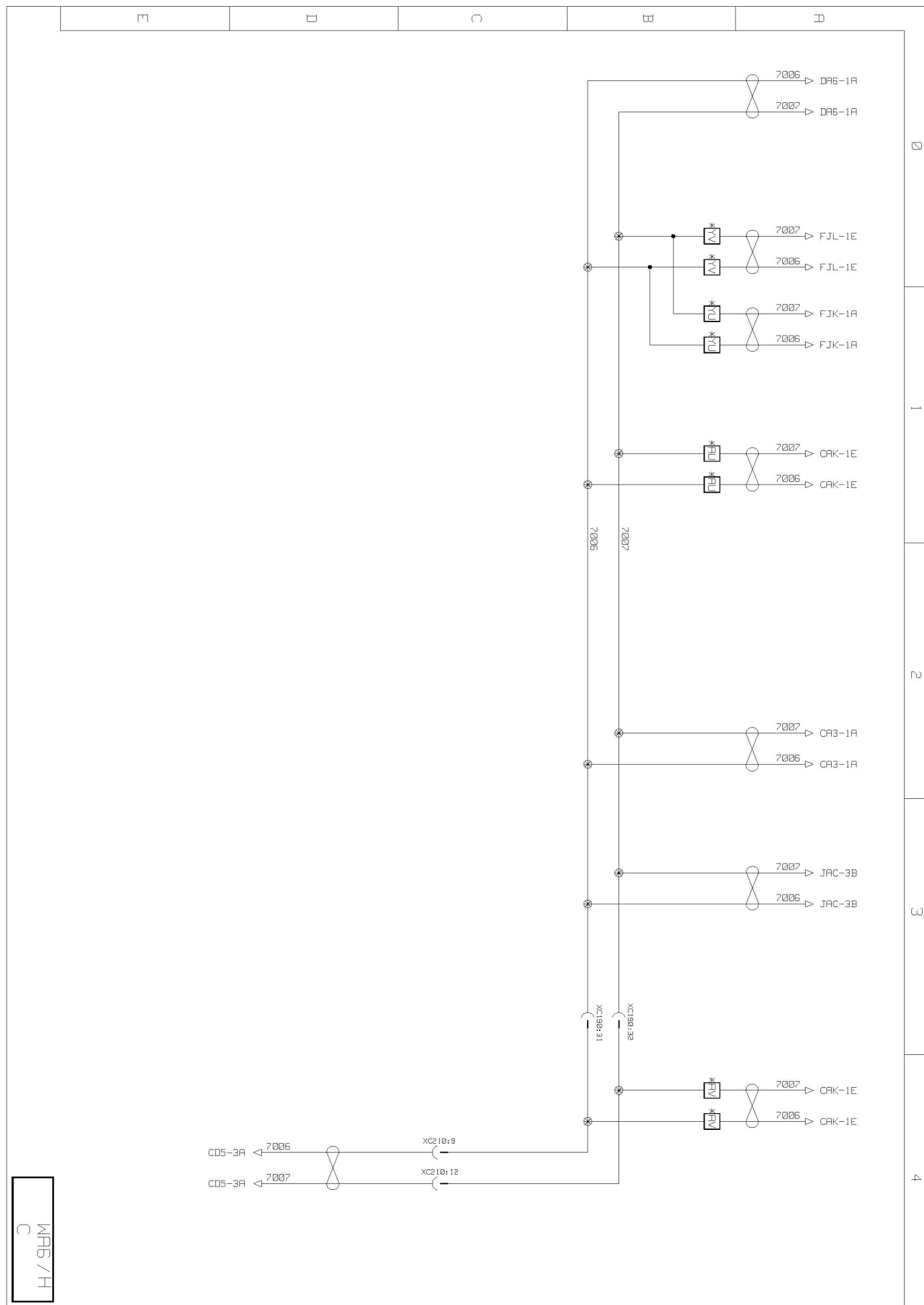
	Direct after battery power supply.
-------------------------------------------------------------------------------------	------------------------------------



J1939 CAN bus transfer zone

- AU** : left-hand drive
- AV** : right-hand drive
- FS** : with pre-equipment for driving assistance system
- FT** : without pre-equipment for driving assistance system
- JN** : vehicles compliant with **Euro V** standards
- JO** : vehicles compliant with **Euro VI** standards
- JP** : vehicles compliant with **Euro III** and **Euro V** standards
- YU** : for vehicles manufactured before **2018/06/04**
- YV** : for vehicles manufactured after **2018/06/03**

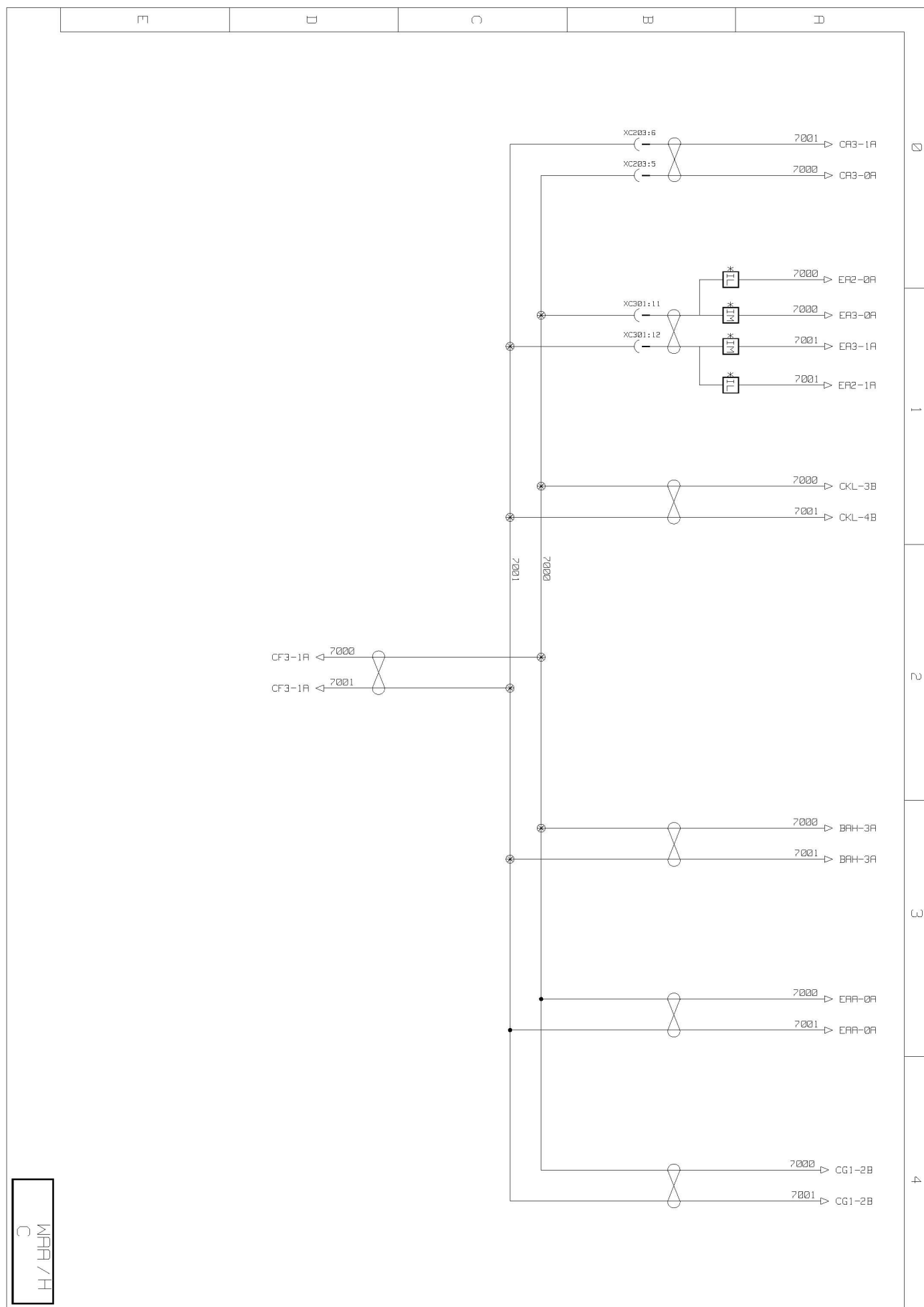
J2284 main CAN bus transfer zone



J2284 main CAN bus transfer zone

- AU** : left-hand drive
- AV** : right-hand drive
- FS** : with pre-equipment for driving assistance system
- FT** : without pre-equipment for driving assistance system
- YU** : for vehicles manufactured before **2018/06/04**
- YV** : for vehicles manufactured after **2018/06/03**

J2284 chassis information CAN bus transfer zone

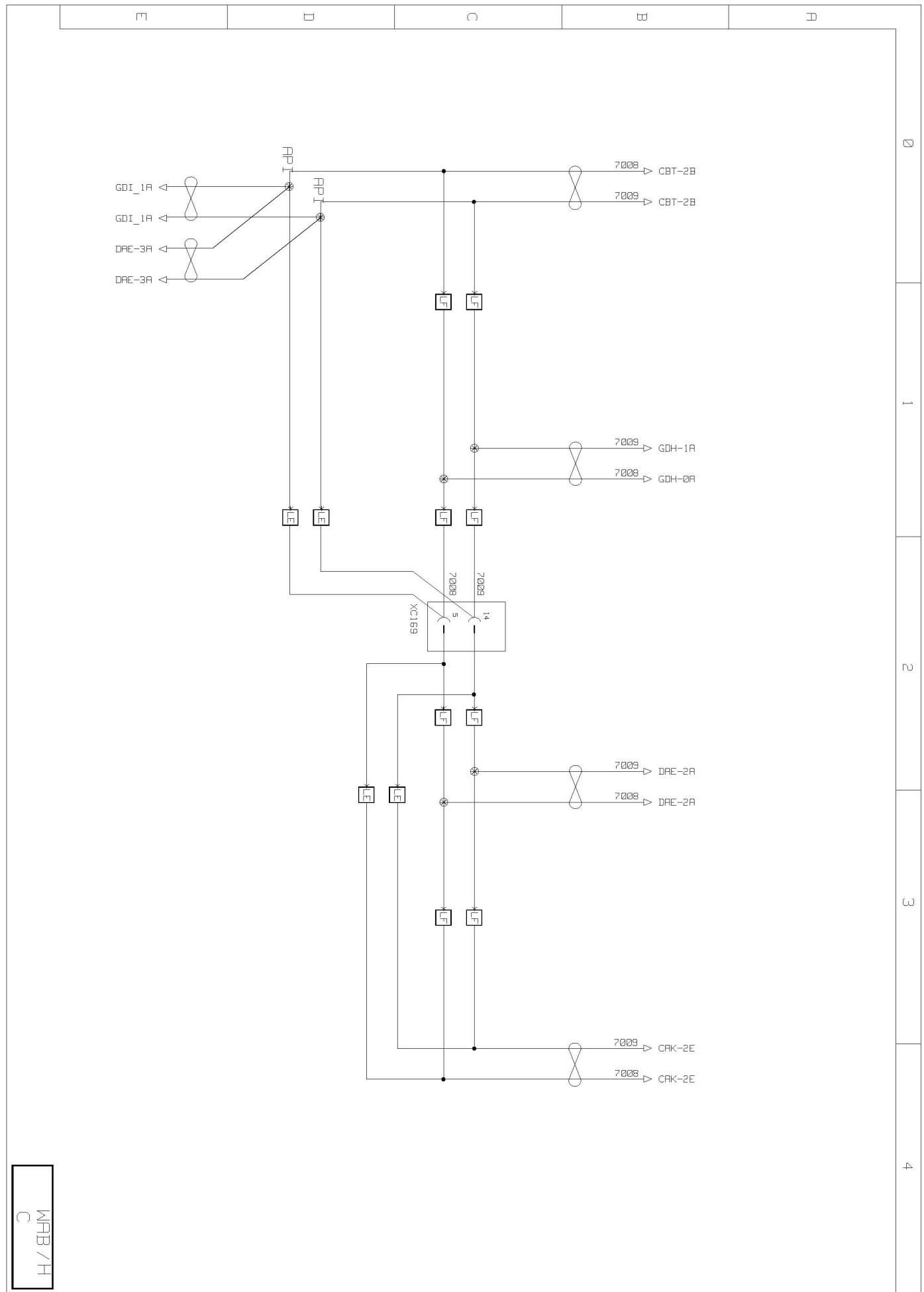


J2284 chassis information CAN bus transfer zone

IL : with main beam headlights

IM : with on-site headlights

J2284 human/machine interface CAN bus transfer

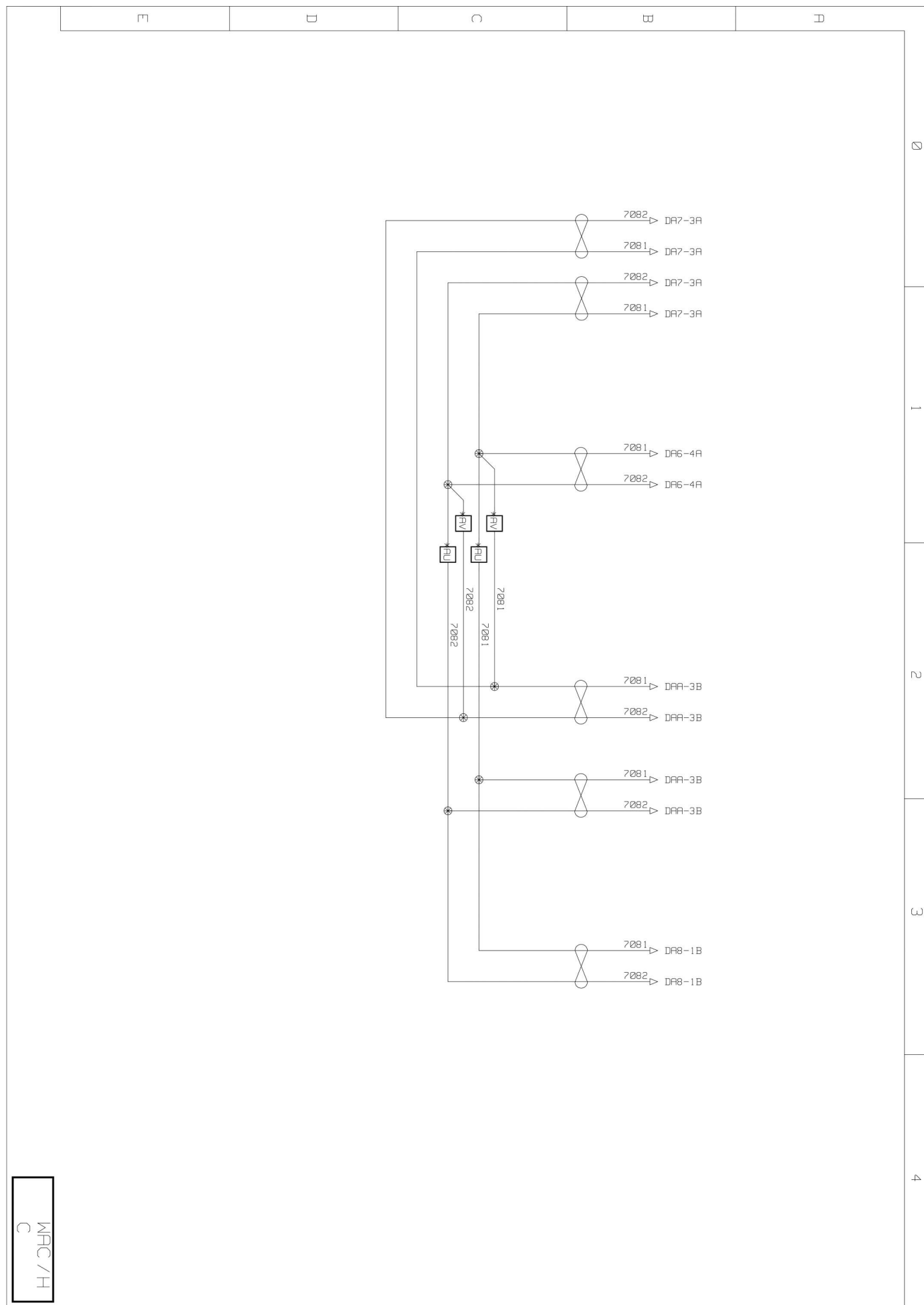


J2284 human/machine interface CAN bus transfer

LE : with entertainment service module

LF : with audio system module

J2284 cab information CAN bus transfer zone

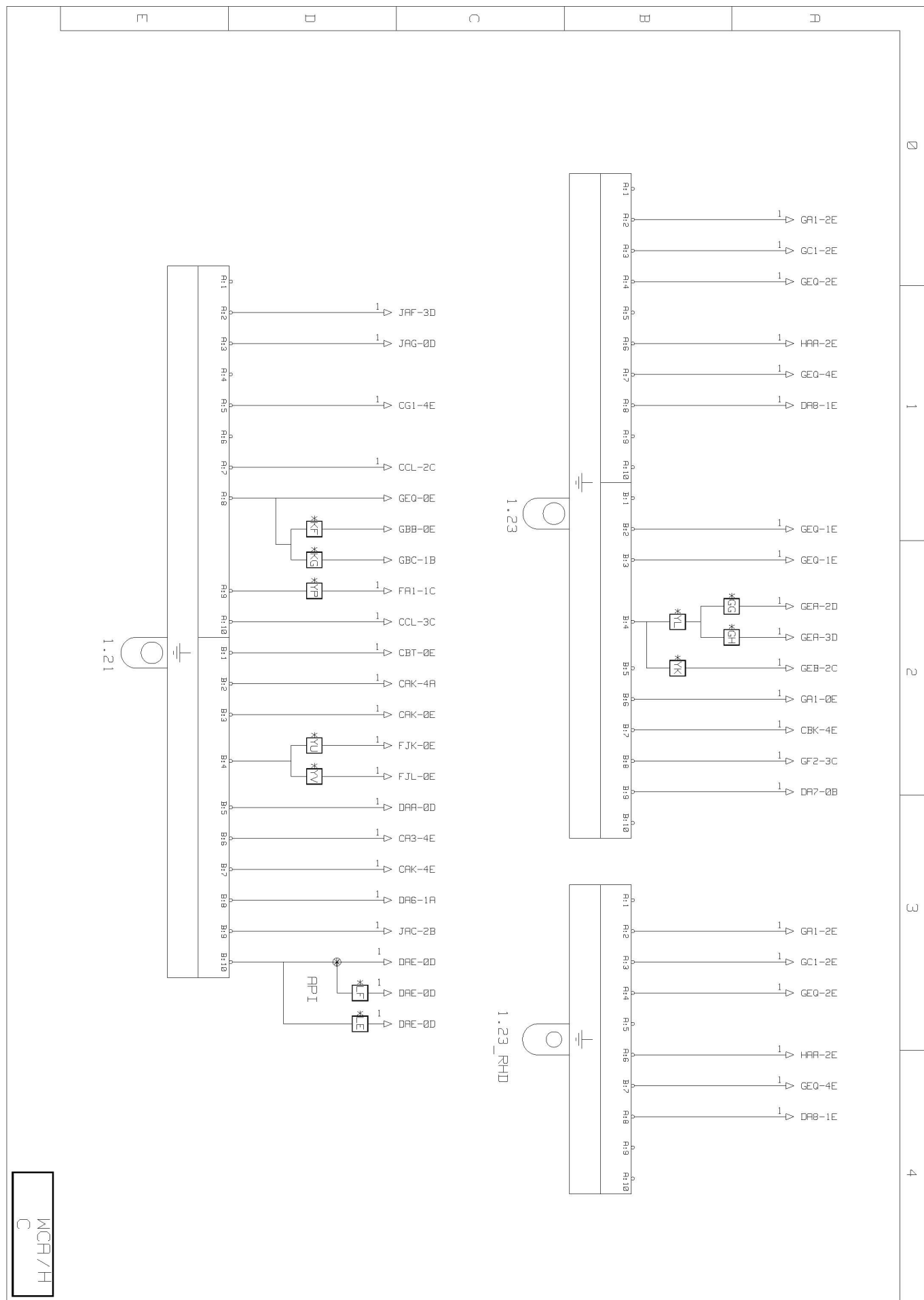


J2284 cab information CAN bus transfer zone

AU : left-hand drive

AV : right-hand drive

Cab earth - Dashboard left-hand side

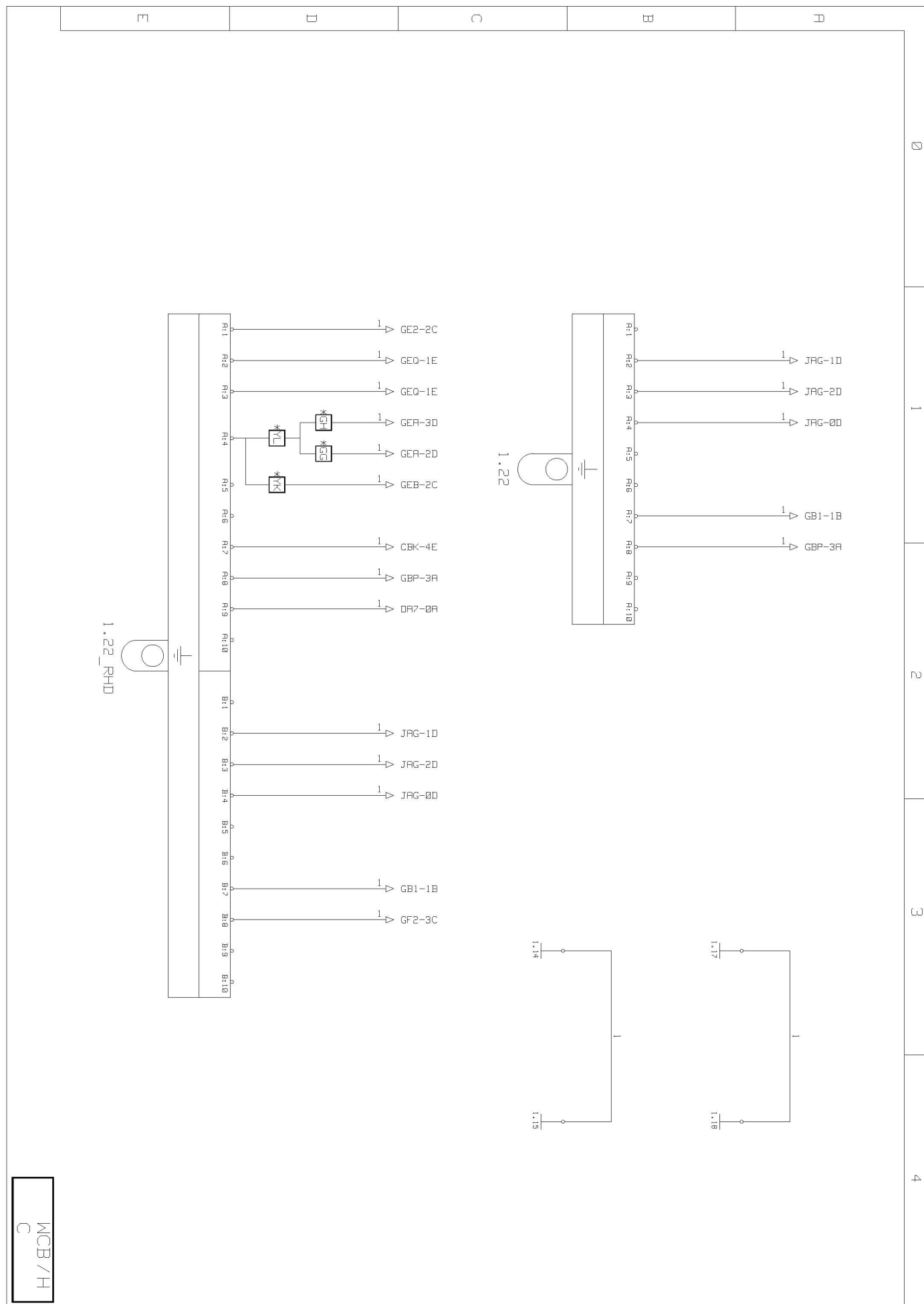


T3139339

Cab earth - Dashboard left-hand side

- FS** : with pre-equipment for driving assistance system
- FT** : without pre-equipment for driving assistance system
- GG** : with **20 A** transformer under the dashboard
- GH** : with **25 A** transformer under the dashboard
- KF** : with parking air conditioning SP950
- KG** : with parking air conditioning RT880
- LE** : with entertainment service module
- LF** : with audio system module
- YK** : for vehicles manufactured after **2017/03/12**
- YL** : for vehicles manufactured before **2017/03/12**
- YP** : for vehicles manufactured after **2017/06/04**

Cab earth - Dashboard right-hand side

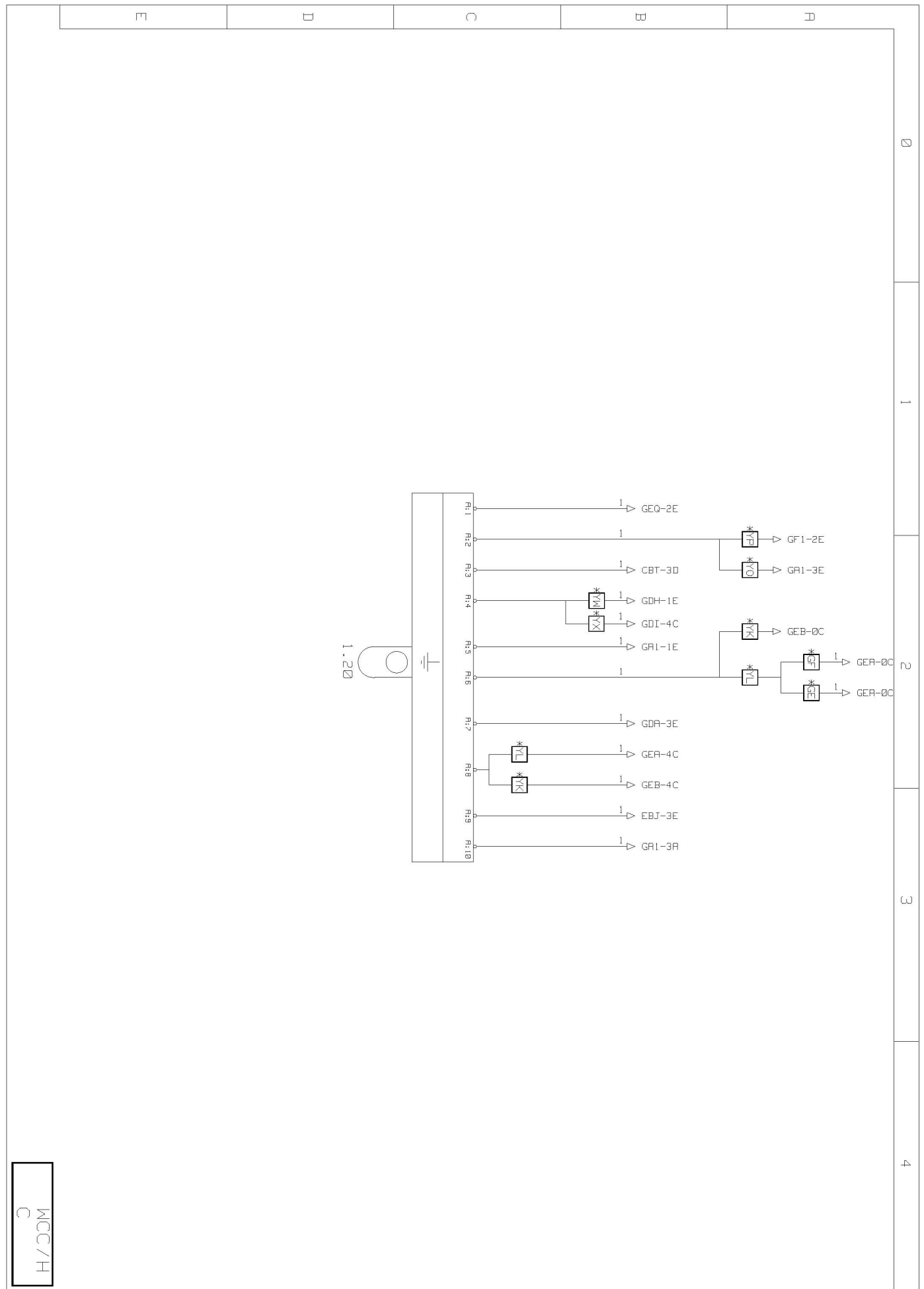


MCB/H
C

Cab earth - Dashboard right-hand side

- GG** : with **20 A** transformer under the dashboard
- GH** : with **25 A** transformer under the dashboard
- YK** : for vehicles manufactured after **2017/03/12**
- YL** : for vehicles manufactured before **2017/03/12**

Cab earth - Roof left-hand side



Cab earth - Roof left-hand side

- GE** : with **11 A** transformer in console
- GF** : with **20 A** transformer in console
- YK** : for vehicles manufactured after **2017/03/12**
- YL** : for vehicles manufactured before **2017/03/12**
- YO** : for vehicles manufactured before **2017/06/05**
- YP** : for vehicles manufactured after **2017/06/04**

EQUIPMENT LOCATIONS

Summary of locations

Distribution box

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Vehicle management - Main information display

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Vehicle management — Tachograph

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Electronic management of 11-litre engine (1/2) - Euro III

See page 314

Electronic management of 11-litre engine (2/2) - Euro III

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Layout of equipment on the 11-litre engine (1/2) - Euro III

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Layout of equipment on the 11-litre engine (2/2) - Euro III

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Electronic management of 11-litre engine (1/2) - Euro V

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Electronic management of 11-litre engine (2/2) - Euro V

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Layout of equipment on the 11-litre engine (1/2) - Euro V

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Layout of equipment on the 11-litre engine (2/2) - Euro V

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Electronic management of 11-litre engine (1/2) - Euro VI

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Electronic management of 11-litre engine (2/2) - Euro VI

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Layout of equipment on the 11-litre engine (1/2) - Euro VI

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Layout of equipment on the 11-litre engine (2/2) - Euro VI

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Electronic management of 13-litre engine (1/2) - Euro III

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Electronic management of 13-litre engine (2/2) - Euro III

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Layout of equipment on the 13-litre engine (1/2) - Euro III

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Layout of equipment on the 13-litre engine (2/2) - Euro III

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Electronic management of 13-litre engine (1/2) - Euro V

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Electronic management of 13-litre engine (2/2) - Euro V

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Layout of equipment on the 13-litre engine (1/2) - Euro V

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Layout of equipment on the 13-litre engine (2/2) - Euro V

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13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (1/2)

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13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (2/2)

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13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (1/2)

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13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (2/2)

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Layout of equipment on the 13-litre engine (1/2) - Euro VI

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Layout of equipment on the 13-litre engine (2/2) - Euro VI

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Fuel management

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Urea supply management with right-hand side tank - Euro V

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Urea supply management with left-hand side tank - Euro V

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Urea supply management with right-hand side tank - Euro VI

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Urea supply management with left-hand side tank - Euro VI

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Vehicle management - Fleet management - Telematics

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Power-assisted steering management

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Energy production – Standard production

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Energy production – ADR equipment

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Air production management on rigid

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Air production management on tractor

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Gearbox management – Manual gearbox

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Gearbox management – Automated Manual Transmission

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Retarder on mechanical gearbox

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Automated manual transmission-mounted retarder

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Braking management - Brake pad wear sensor

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Braking management - EBS equipment for rigid

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Braking management - EBS equipment for tractor

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Braking management - EBS equipment

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Braking management - EBS equipment 4x2

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Braking management - EBS equipment 6x2 - TAG

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Braking management - 6x2 - 6x4 EBS equipment

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Braking management - 8x4 - 8x6 EBS equipment

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Suspension management – Air suspension

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Suspension management – 4x2 air suspension

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Suspension management – 6x2 Air suspension - TAG

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Suspension management – 6x2 - 6x4 air suspension

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Suspension management – 8x4 air suspension

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8x2/6 controlled axle management

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Tyre management – Tyre pressure monitoring

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Differential lock on rigid

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Differential lock on tractor

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OptiTrack hydraulic system (1/2)

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OptiTrack hydraulic system (2/2)

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Vehicle maintenance – Data link connectors

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Power take-off on rigid

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Power take-off on tractor

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Door management

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Safety management - Left-hand side door management

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Safety management - Right-hand side door management

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Safety management – Immobiliser

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Safety management – Alarm

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Bodywork pre-equipment and fittings

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Life on board – Air/air independent heater

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Life on board – Air/water independent heating

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Life on board - Air conditioning

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Life on board - Night time air conditioning - SP950

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Life on board - Night time air conditioning - RT880

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Radio (1/2)

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Radio (2/2)

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Life on board – Sun-roof and sun visor

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Life on board – Comfort accessories - Accessory sockets

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Life on board - Heated driver's seat

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Life on board - Comfort accessories - Windscreen de-icing

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Driving assist

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Vehicle maintenance – Cab tilt

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Safety management - Video surveillance

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Interior lighting management (1/2)

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External lighting management (1/4)

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External lighting management (2/4)

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External lighting management (3/4)

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External lighting management (4/4)

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Lighting and Signalling - Horn

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Washing and wiping of windows (1/2)

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Washing and wiping of windows (2/2)

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Cab earth

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Chassis earth

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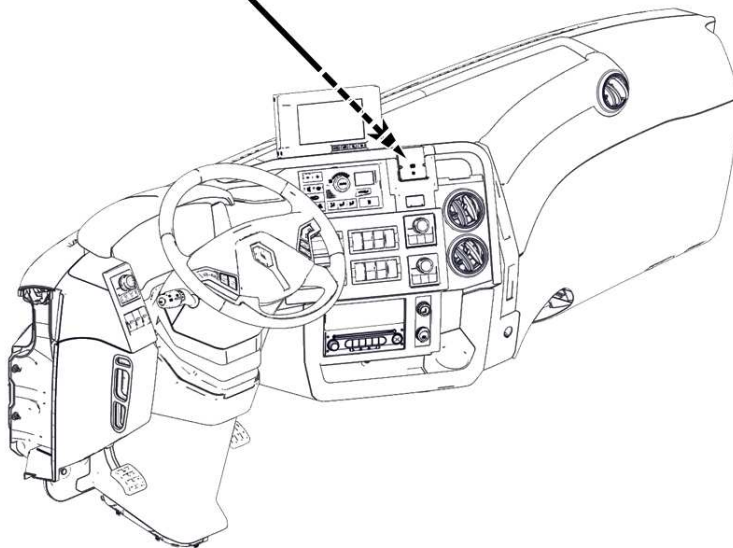
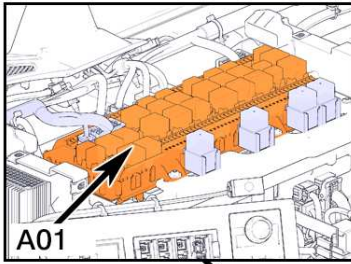
11-litre engine earths

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13-litre engine earths

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Distribution box



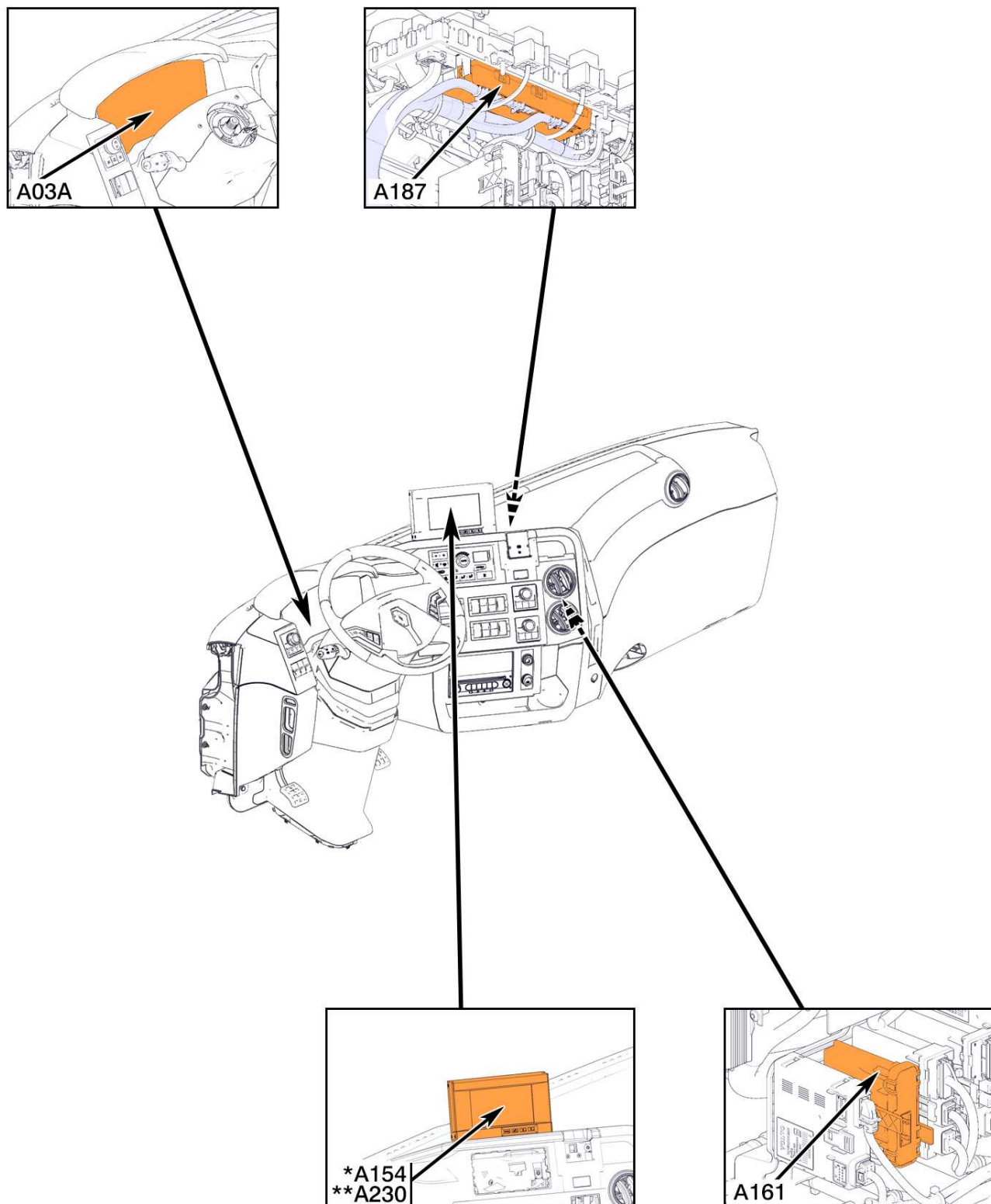
T3099634

Distribution box

Key to devices

Code	Function description	Diagram page No.
A01	Electrical distribution box in cab	-

Vehicle management – Main information display



T3130645

Vehicle management – Main information display

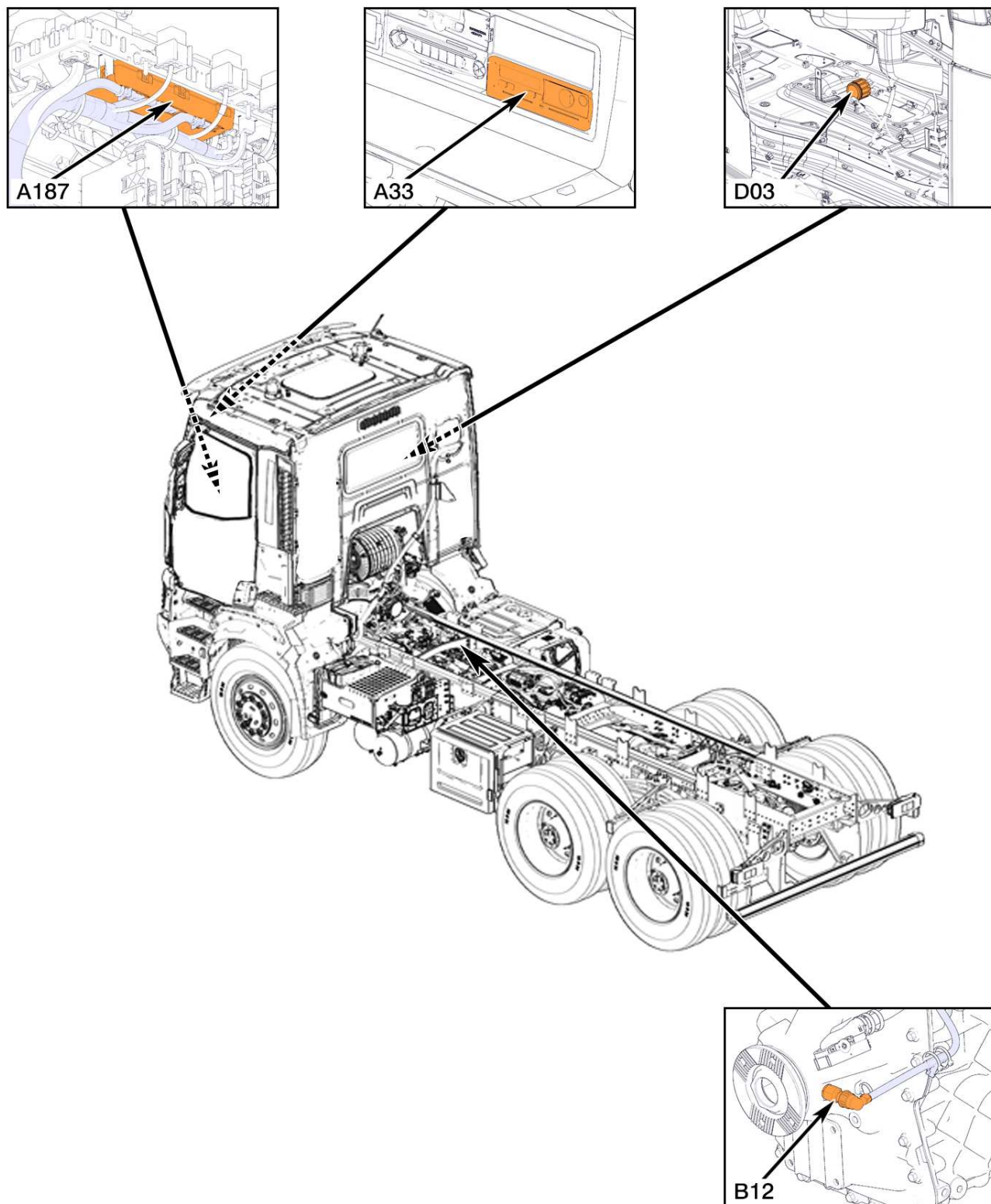
Key to devices

Code	Function description	Diagram page No.
A03A	Main information display	CAK
A154	Video display	DAE
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
A230	Touch screen secondary information display (SID)	GDI

* : vehicles manufactured before **10/09/2018**

** : vehicles manufactured after **09/09/2018**

Vehicle management – Tachograph



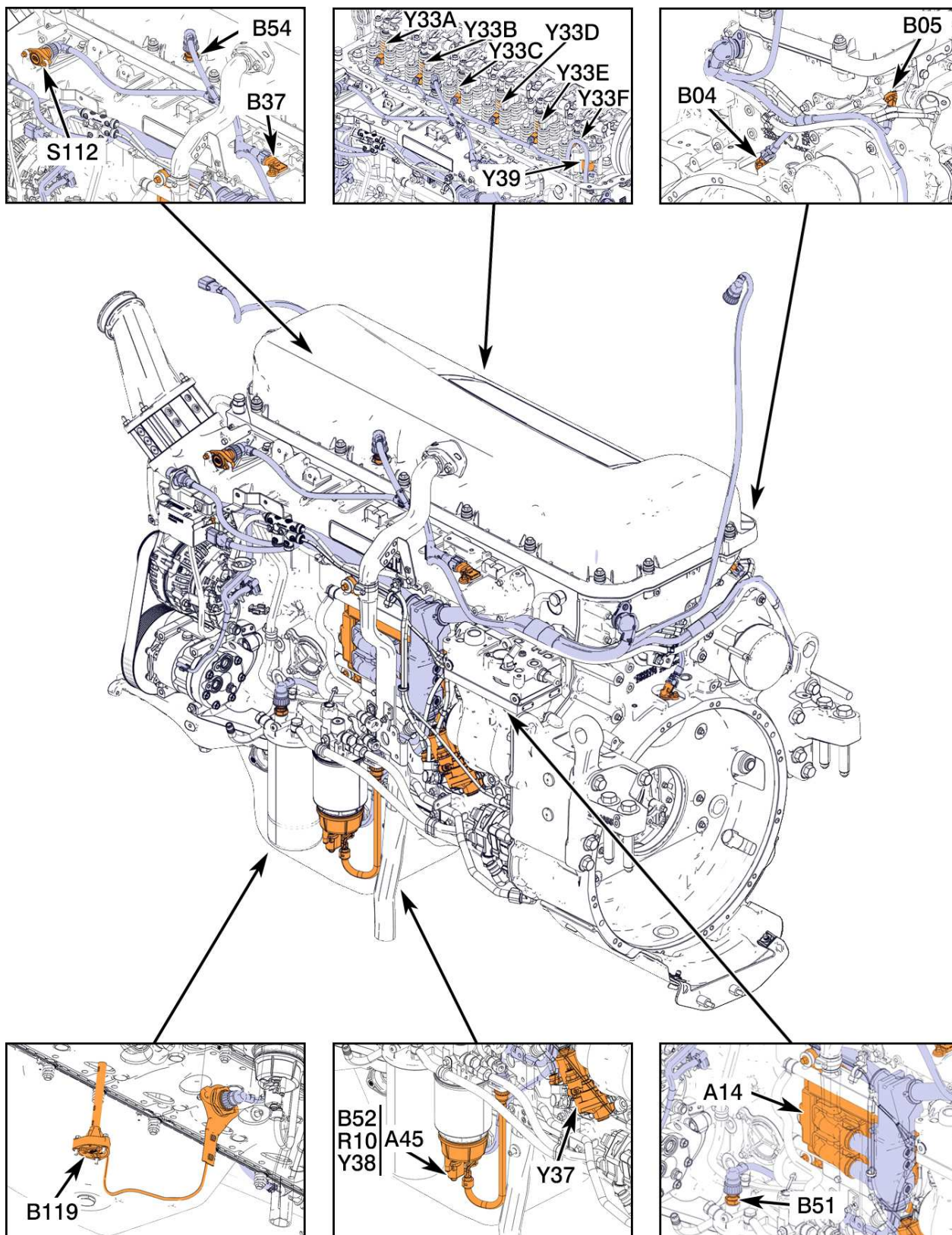
T3099641

Vehicle management – Tachograph

Key to devices

Code	Function description	Diagram page No.
A33	Tachograph	CB1
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
B12	Tachograph vehicle speed sensor	CB1
D03	Vehicle hour meter	HAA

Electronic management of 11-litre engine (1/2) - Euro III



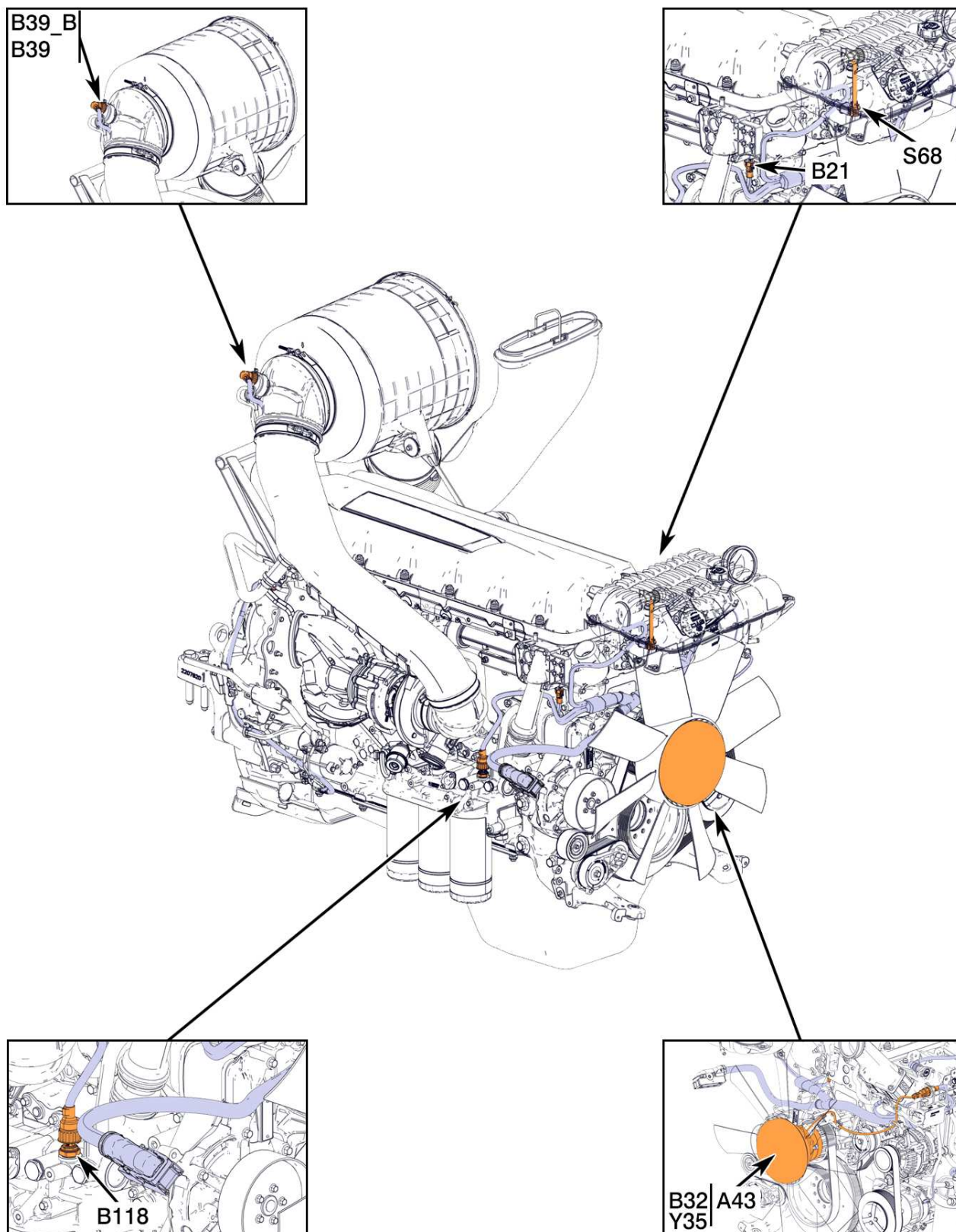
T3099656

Electronic management of 11-litre engine (1/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1A/C1R
A45	Fuel heating unit	C1A
B04	Engine speed sensor on engine flywheel	C1R
B05	Engine speed sensor on camshaft	C1R
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1R
B51	Engine boost pressure sensor	C1A
B52	Water in fuel sensor	C1A
B54	Pressure sensor inside engine block	C1A
B119	Engine oil level and temperature sensor assembly	C1R
R10	Fuel heater resistor no. 2	C1A
S112	Engine shut down control	C1R
Y33A	No. 1 cylinder injector solenoid valve	C1R
Y33B	No. 2 cylinder injector solenoid valve	C1R
Y33C	No. 3 cylinder injector solenoid valve	C1R
Y33D	No. 4 cylinder injector solenoid valve	C1R
Y33E	No. 5 cylinder injector solenoid valve	C1R
Y33F	No. 6 cylinder injector solenoid valve	C1R
Y37	Solenoid valve assembly for exhaust braking	C1A
Y38	Dryer bleed solenoid valve	C1A
Y39	VTC engine brake solenoid valve	C1A

Electronic management of 11-litre engine (2/2) - Euro III



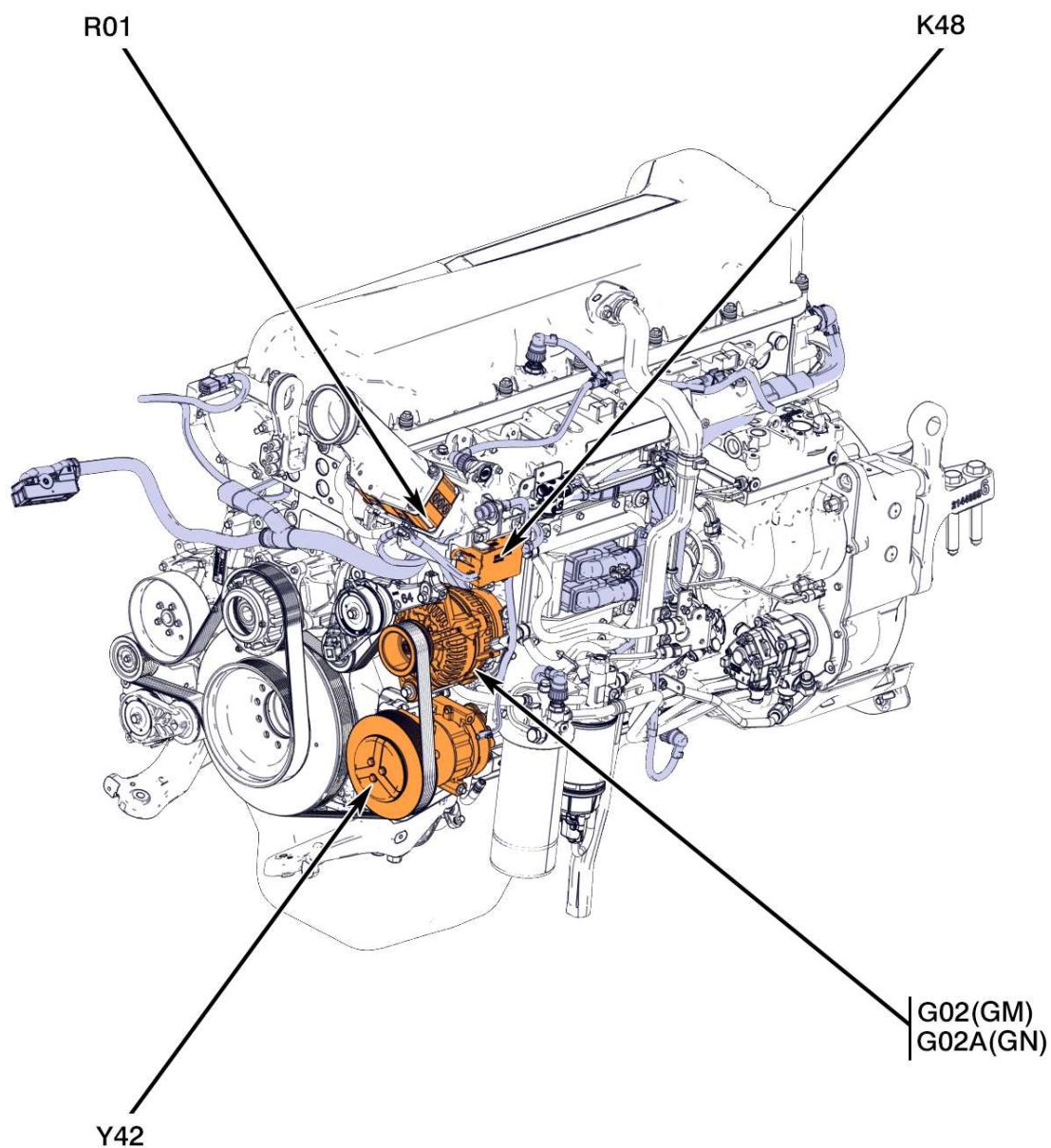
T3099657

Electronic management of 11-litre engine (2/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1R
B21	Engine coolant circuit temperature sensor	C1A
B32	Engine cooling fan speed sensor	C1R
B39	Air filter pressure and temperature sensor	C1R
B39_B	Air filter pressure sensor	C1R
B118	Engine oil pressure sensor	C1A
S68	Engine coolant level sensor	C1A
Y35	Engine cooling fan speed regulation solenoid valve	C1R

Layout of equipment on the 11-litre engine (1/2) - Euro III



T3116559

Layout of equipment on the 11-litre engine (1/2) - Euro III

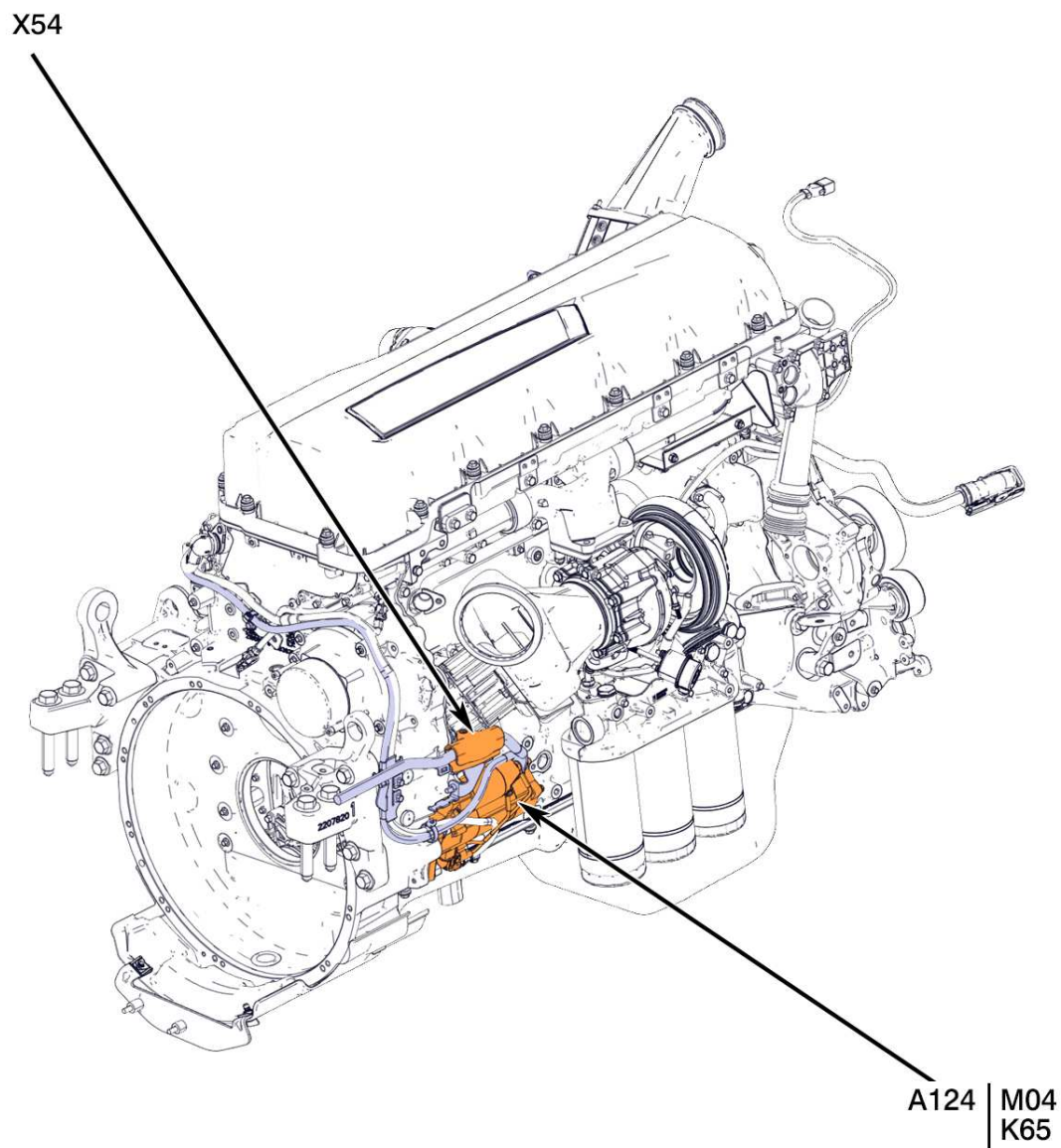
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 11-litre engine (2/2) - Euro III



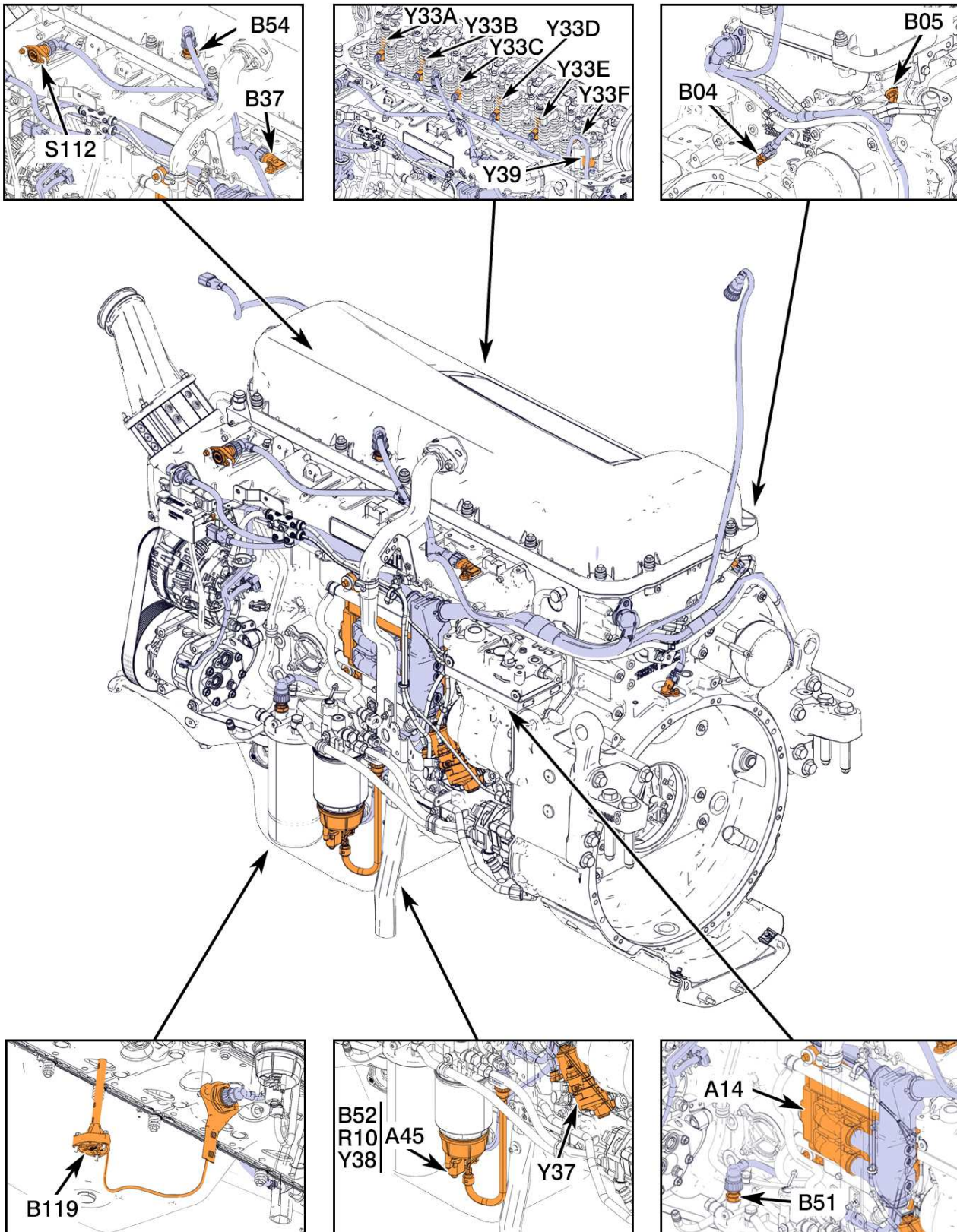
T3099665

Layout of equipment on the 11-litre engine (2/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

Electronic management of 11-litre engine (1/2) - Euro V



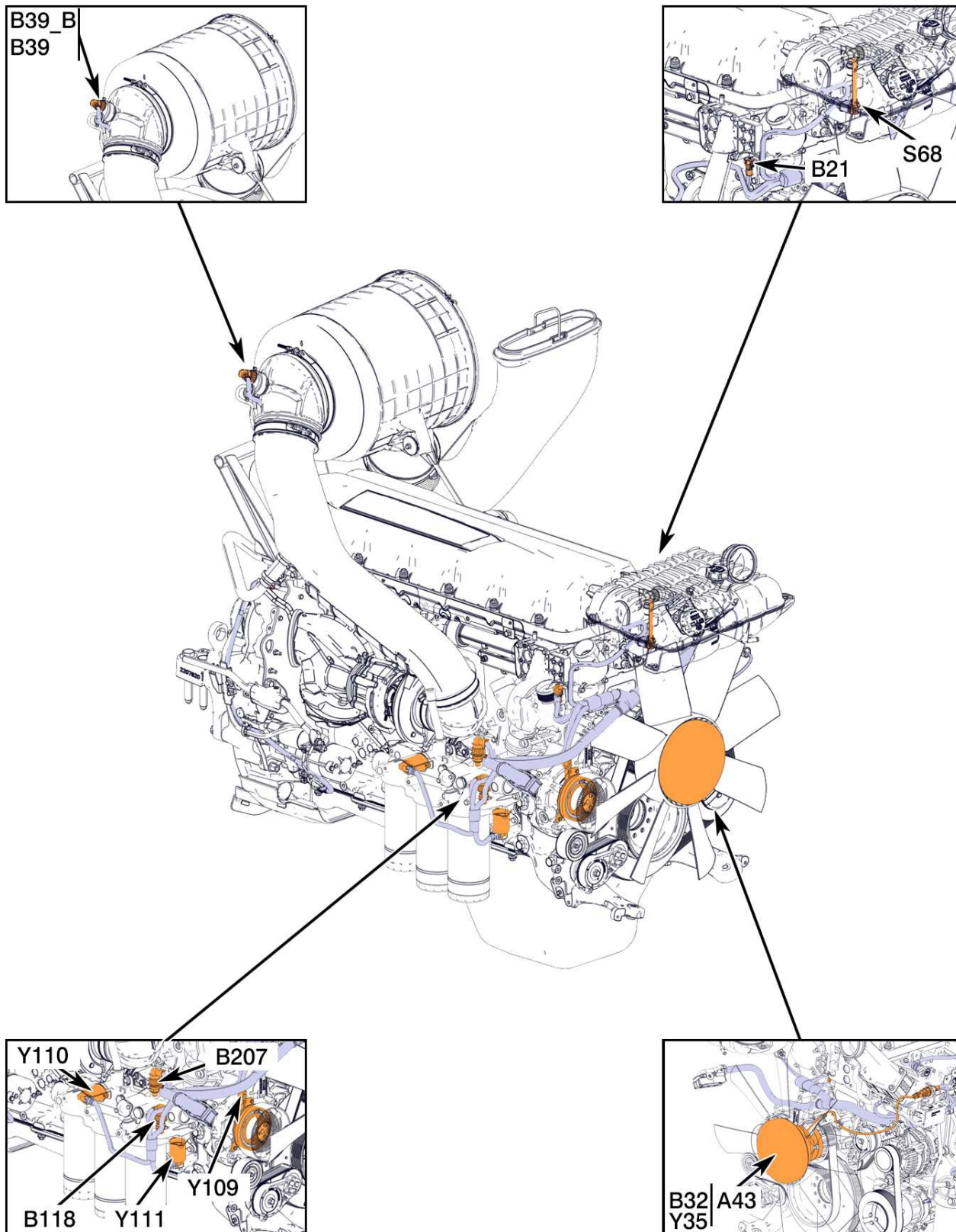
T3099654

Electronic management of 11-litre engine (1/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1A/C1R
A45	Fuel heating unit	C1A
B04	Engine speed sensor on engine flywheel	C1R
B05	Engine speed sensor on camshaft	C1R
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1R
B51	Engine boost pressure sensor	C1A
B52	Water in fuel sensor	C1A
B54	Pressure sensor inside engine block	C1A
B119	Engine oil level and temperature sensor assembly	C1R
R10	Fuel heater resistor no. 2	C1A
S112	Engine shut down control	C1R
Y33A	No. 1 cylinder injector solenoid valve	C1R
Y33B	No. 2 cylinder injector solenoid valve	C1R
Y33C	No. 3 cylinder injector solenoid valve	C1R
Y33D	No. 4 cylinder injector solenoid valve	C1R
Y33E	No. 5 cylinder injector solenoid valve	C1R
Y33F	No. 6 cylinder injector solenoid valve	C1R
Y37	Solenoid valve assembly for exhaust braking	C1A
Y38	Dryer bleed solenoid valve	C1A
Y39	VTC engine brake solenoid valve	C1A

Electronic management of 11-litre engine (2/2) - Euro V



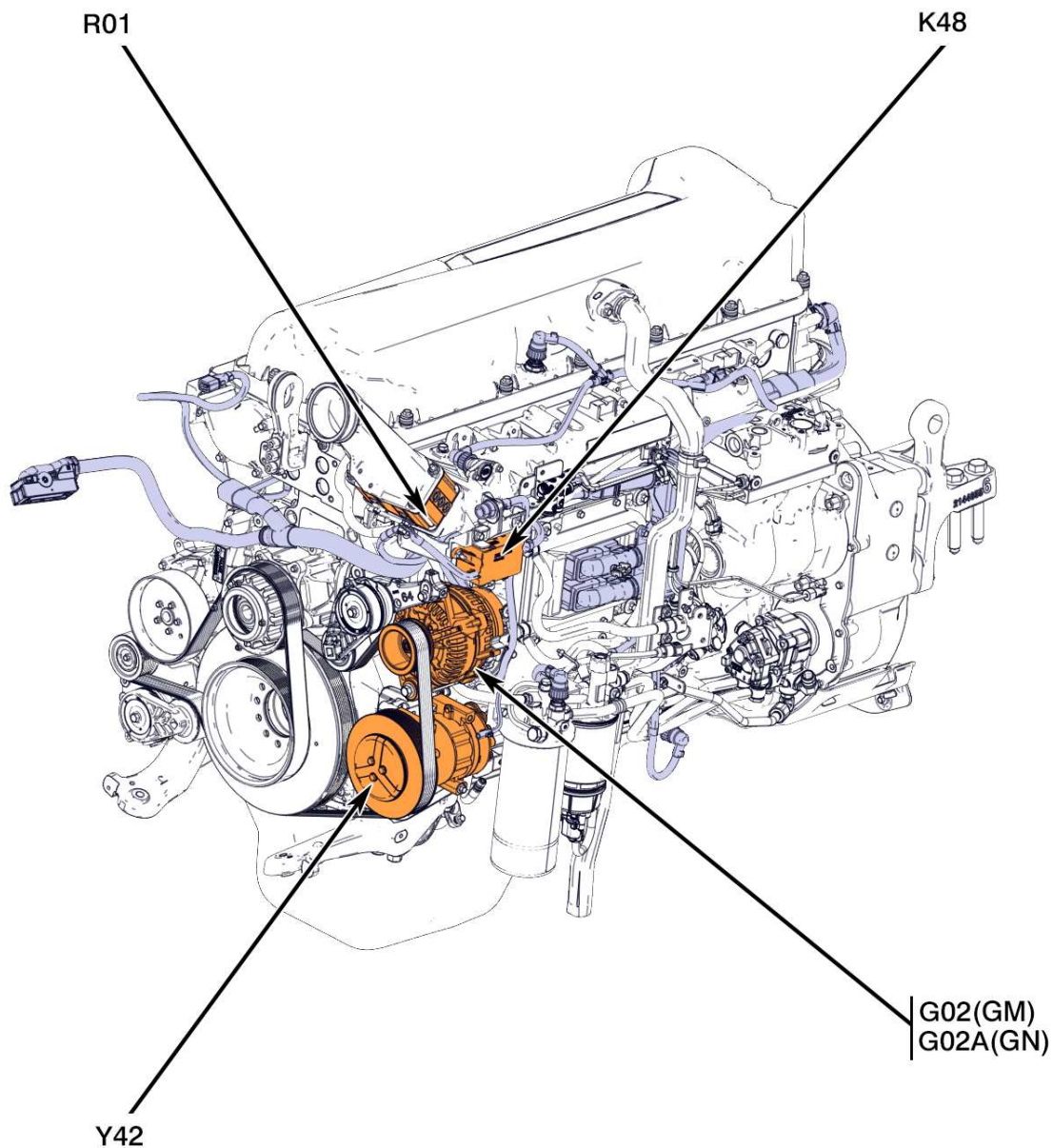
T3099655

Electronic management of 11-litre engine (2/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1R
B21	Engine coolant circuit temperature sensor	C1A
B32	Engine cooling fan speed sensor	C1R
B39	Air filter pressure and temperature sensor	C1R
B39_B	Air filter pressure sensor	C1R
B118	Engine oil pressure sensor	C1A
B207	Piston cooling oil pressure sensor	C1A
S68	Engine coolant level sensor	C1A
Y35	Engine cooling fan speed regulation solenoid valve	C1R
Y109	Water pump electromagnetic clutch	C1R
Y110	Oil cooling solenoid valve	C1A
Y111	Piston cooling solenoid valve	C1A

Layout of equipment on the 11-litre engine (1/2) - Euro V



T3116468

Layout of equipment on the 11-litre engine (1/2) - Euro V

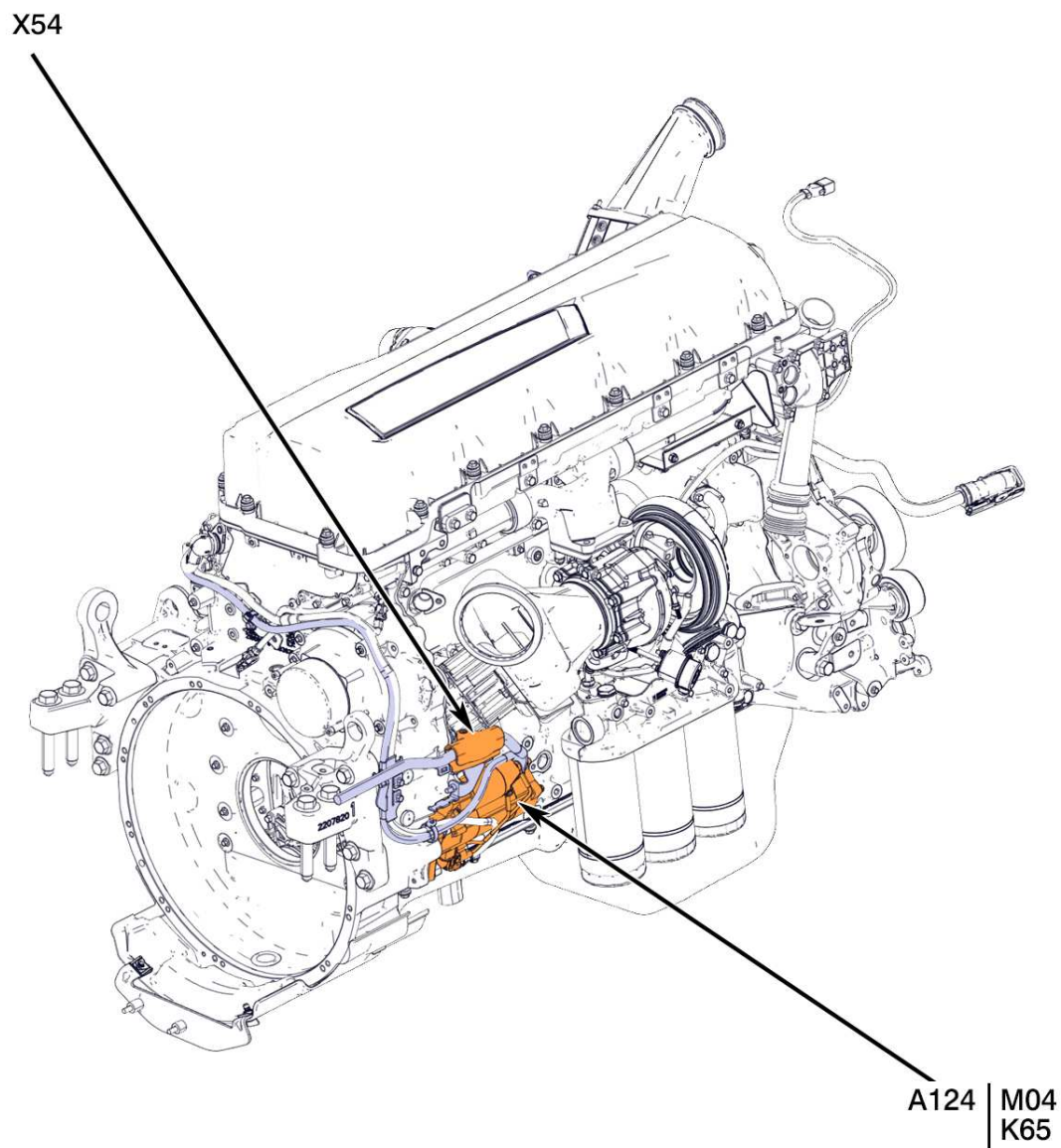
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 11-litre engine (2/2) - Euro V



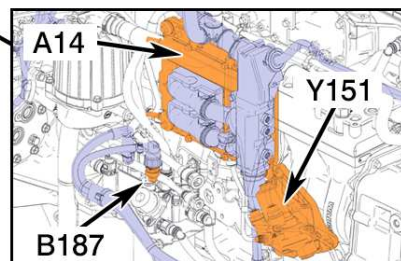
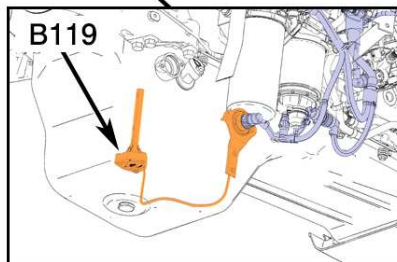
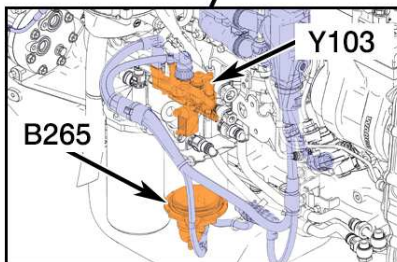
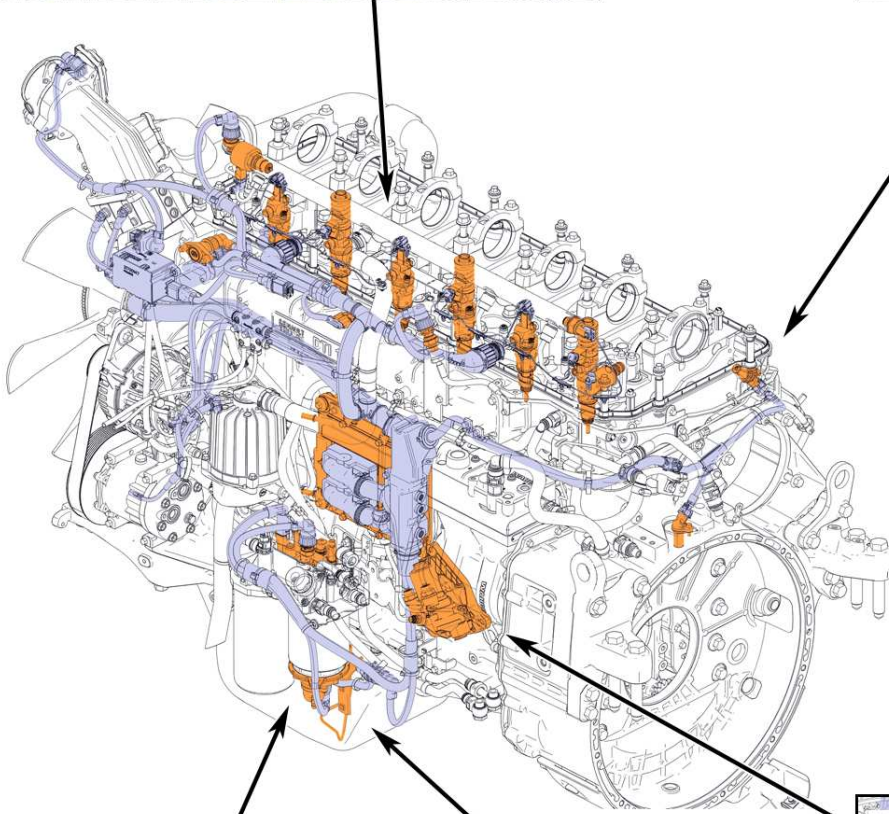
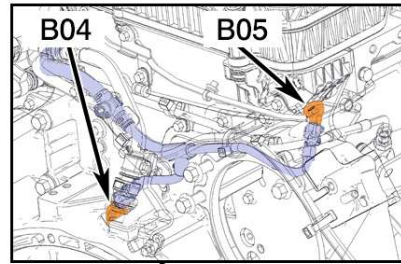
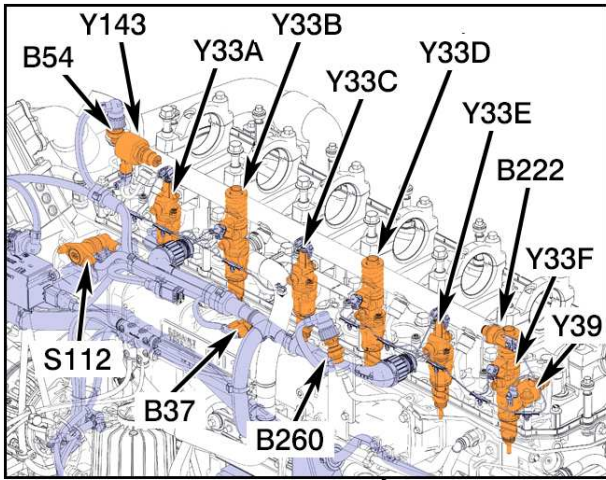
T3099663

Layout of equipment on the 11-litre engine (2/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

Electronic management of 11-litre engine (1/2) - Euro VI



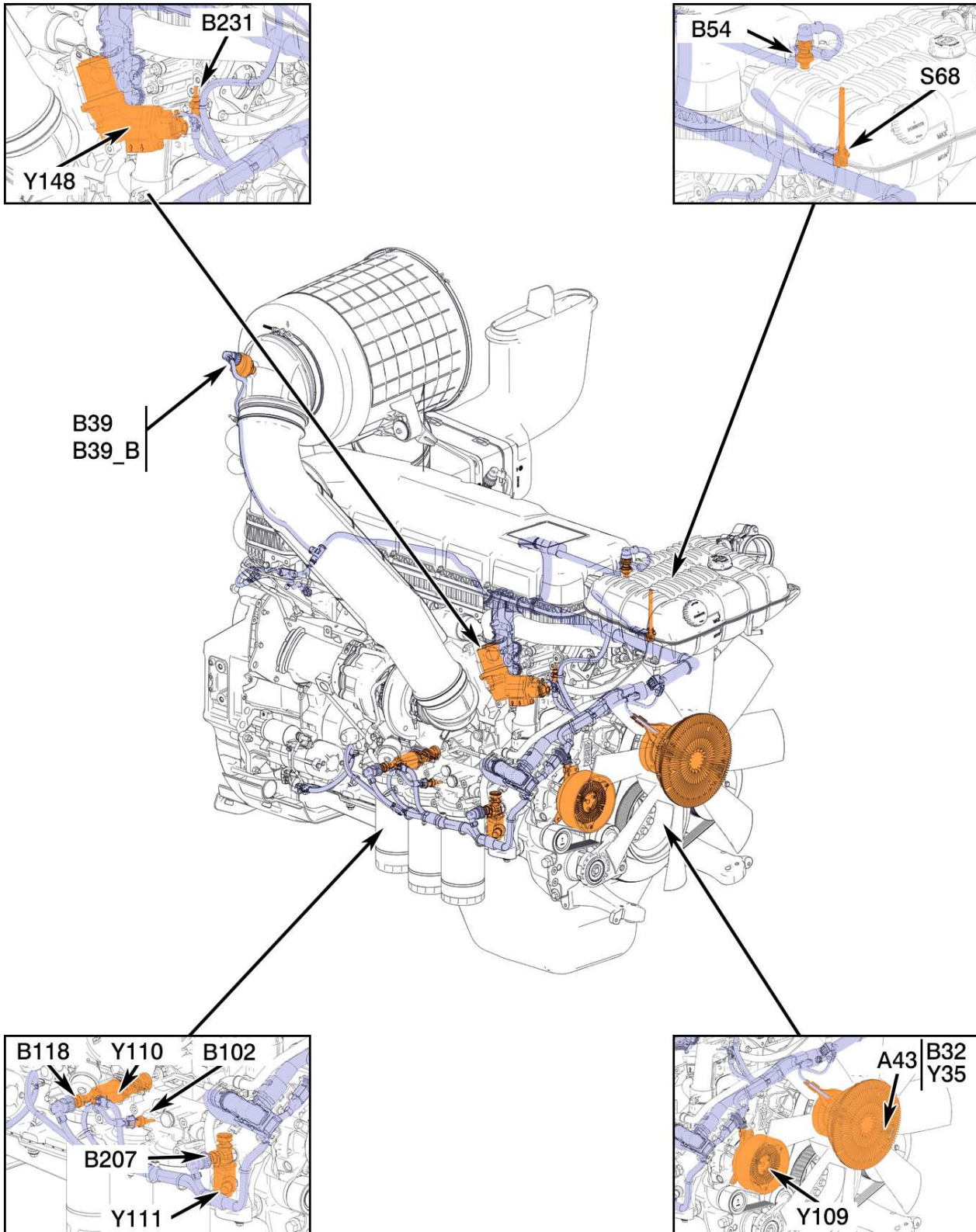
T3099644

Electronic management of 11-litre engine (1/2) - Euro VI

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1C/C1T
B04	Engine speed sensor on engine flywheel	C1T
B05	Engine speed sensor on camshaft	C1T
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1T
B54	Pressure sensor inside engine block	C1C
B119	Engine oil level and temperature sensor assembly	C1C
B187	Diesel fuel pressure sensor for exhaust injector	C1T
B222	Rail fuel high pressure sensor	C1T
B260	Exhaust back-pressure sensor	C1C
B265	Fuel heating unit	C1T
S112	Engine shut down control	C1T
Y33A	No. 1 cylinder injector solenoid valve	C1T
Y33B	No. 2 cylinder injector solenoid valve	C1T
Y33C	No. 3 cylinder injector solenoid valve	C1T
Y33D	No. 4 cylinder injector solenoid valve	C1T
Y33E	No. 5 cylinder injector solenoid valve	C1T
Y33F	No. 6 cylinder injector solenoid valve	C1T
Y39	VTC engine brake solenoid valve	C1C
Y103	Exhaust injector solenoid valve	C1C
Y143	Rail high pressure regulation solenoid valve	C1T
Y151	Solenoid valve assembly for exhaust braking	C1C

Electronic management of 11-litre engine (2/2) - Euro VI



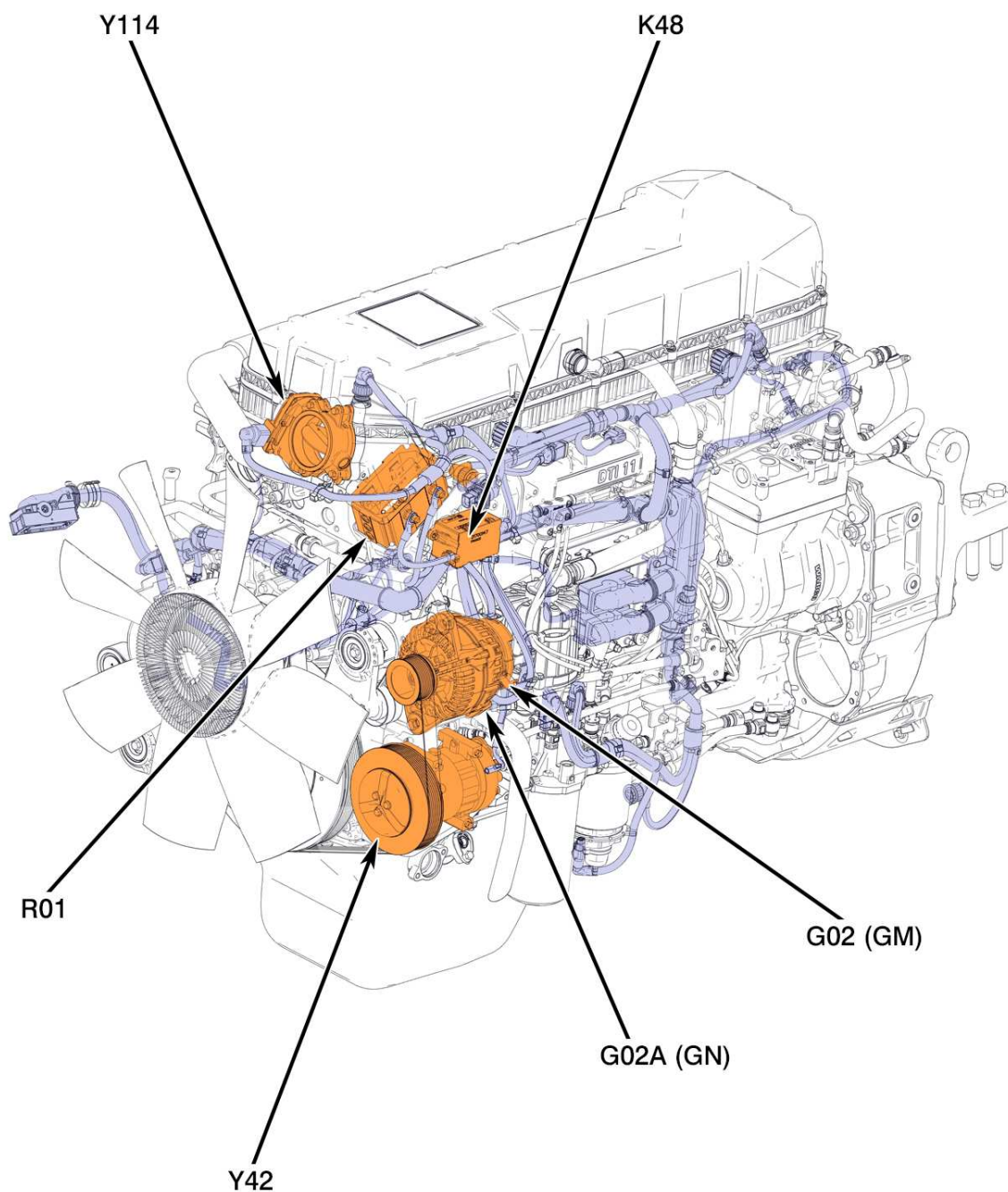
T3099646

Electronic management of 11-litre engine (2/2) - Euro VI

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1T
B32	Engine cooling fan speed sensor	C1T
B39	Air filter pressure and temperature sensor	C1T
B39_B	Air filter pressure sensor	C1T
B54	Pressure sensor inside engine block	C1C
B102	Oil temperature sensor on oil filter holder	C1C
B118	Engine oil pressure sensor	C1C
B207	Piston cooling oil pressure sensor	C1C
B231	Engine coolant circuit temperature sensor	C1C
S68	Engine coolant level sensor	C1C
Y35	Engine cooling fan speed regulation solenoid valve	C1T
Y109	Water pump electromagnetic clutch	C1T
Y110	Oil cooling solenoid valve	C1C
Y111	Piston cooling solenoid valve	C1C
Y148	Exhaust gas recirculation solenoid valve	C1C

Layout of equipment on the 11-litre engine (1/2) - Euro VI



T3116469

Layout of equipment on the 11-litre engine (1/2) - Euro VI

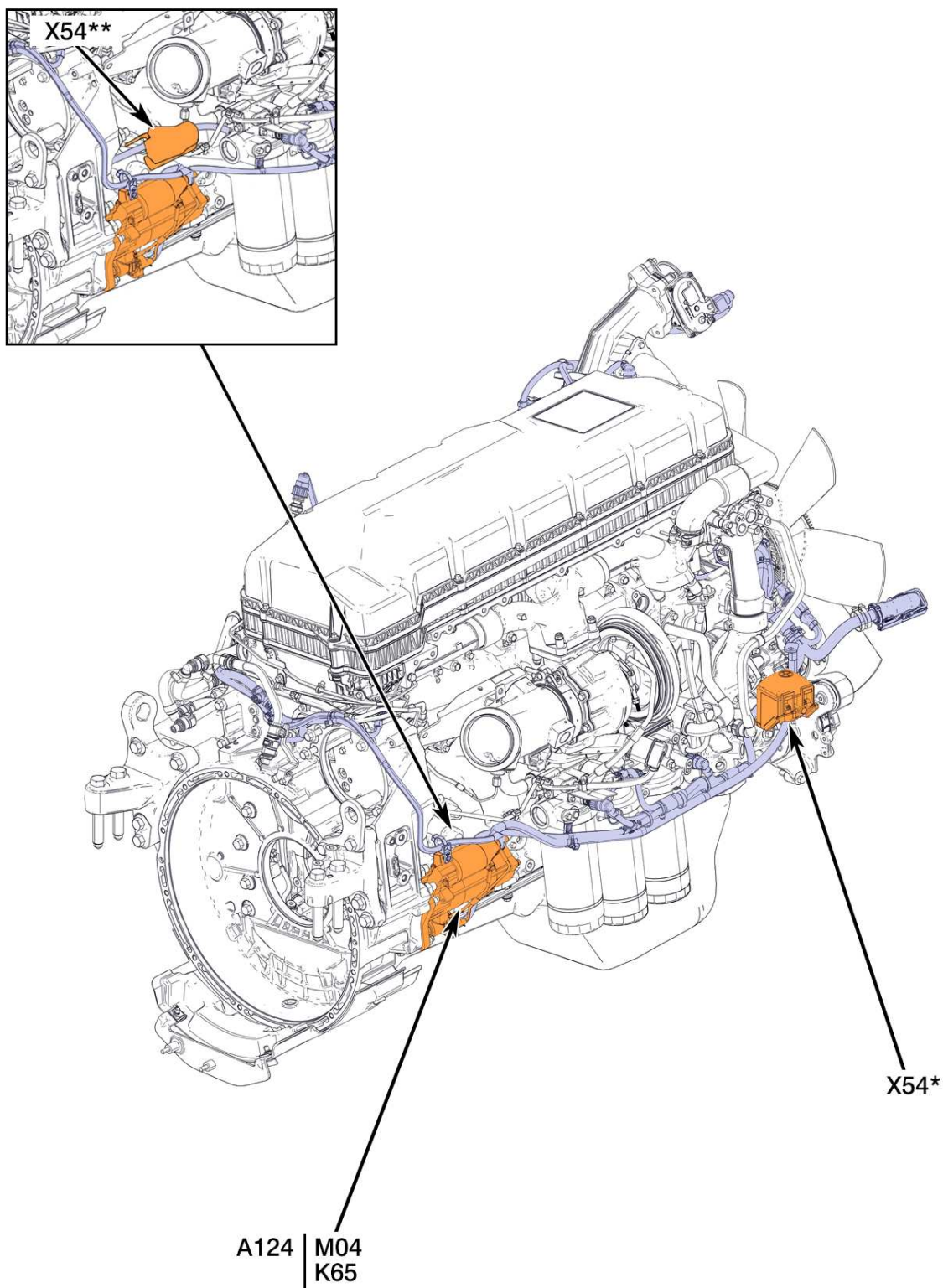
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP
Y114	Air flow regulation solenoid valve	C1C

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 11-litre engine (2/2) - Euro VI



T3099661

Layout of equipment on the 11-litre engine (2/2) - Euro VI

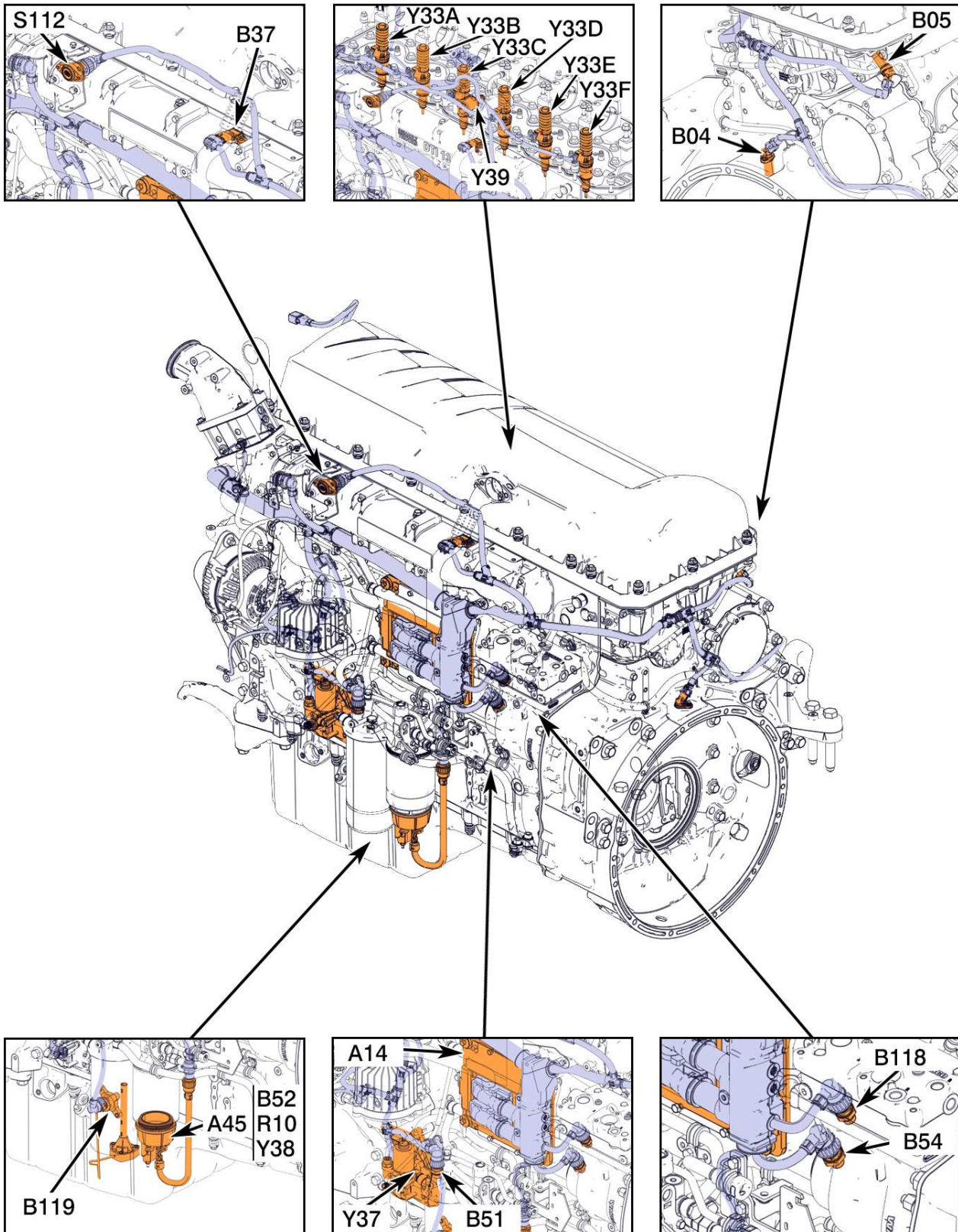
Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

* : for vehicles manufactured before **30/11/2014**

** : for vehicles manufactured after **01/12/2014**

Electronic management of 13-litre engine (1/2) - Euro III



294199

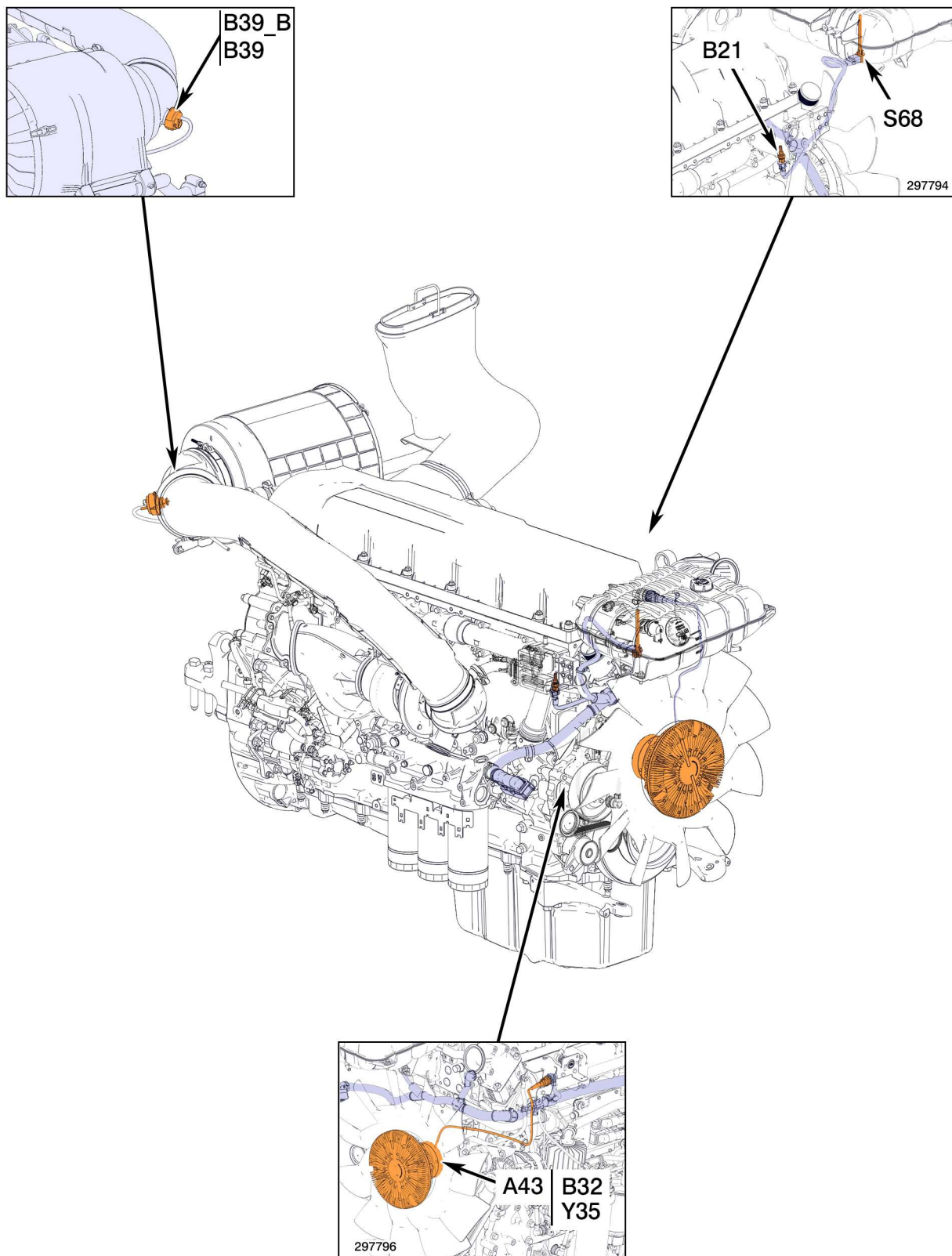
T3099658

Electronic management of 13-litre engine (1/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1B/C1S
A45	Fuel heating unit	C1S
B04	Engine speed sensor on engine flywheel	C1S
B05	Engine speed sensor on camshaft	C1S
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1B
B51	Engine boost pressure sensor	C1B
B52	Water in fuel sensor	C1S
B54	Pressure sensor inside engine block	C1B
B118	Engine oil pressure sensor	C1B
B119	Engine oil level and temperature sensor assembly	C1B
R10	Fuel heater resistor no. 2	C1S
S112	Engine shut down control	C1B
Y33A	No. 1 cylinder injector solenoid valve	C1S
Y33B	No. 2 cylinder injector solenoid valve	C1S
Y33C	No. 3 cylinder injector solenoid valve	C1S
Y33D	No. 4 cylinder injector solenoid valve	C1S
Y33E	No. 5 cylinder injector solenoid valve	C1S
Y33F	No. 6 cylinder injector solenoid valve	C1S
Y37	Solenoid valve assembly for exhaust braking	C1S
Y38	Dryer bleed solenoid valve	C1S
Y39	VTC engine brake solenoid valve	C1S

Electronic management of 13-litre engine (2/2) - Euro III



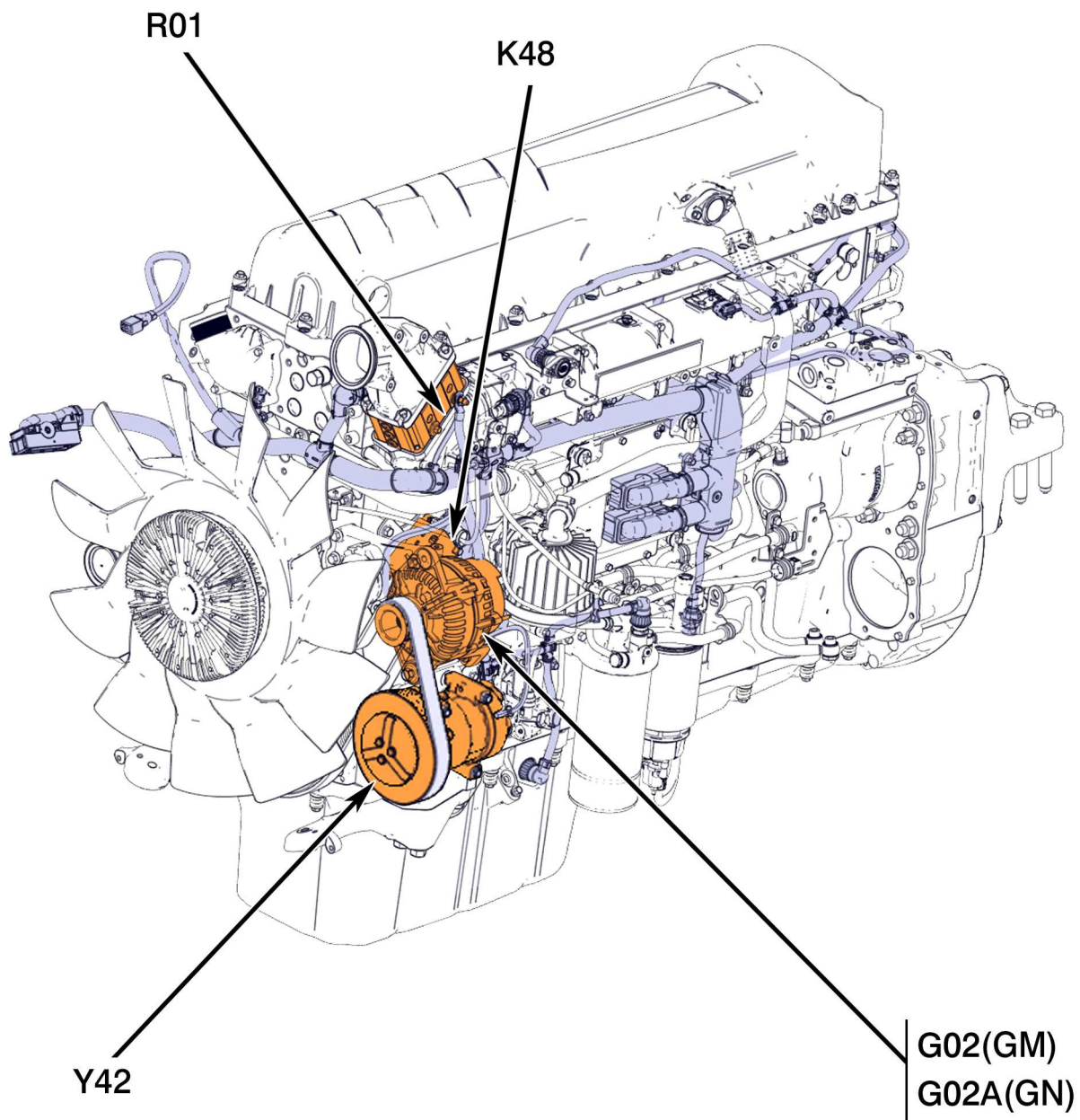
T3099659

Electronic management of 13-litre engine (2/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1B
B21	Engine coolant circuit temperature sensor	C1B
B32	Engine cooling fan speed sensor	C1B
B39	Air filter pressure and temperature sensor	C1B
B39_B	Air filter pressure sensor	C1B
S68	Engine coolant level sensor	C1S
Y35	Engine cooling fan speed regulation solenoid valve	C1B

Layout of equipment on the 13-litre engine (1/2) - Euro III



T3116560

Layout of equipment on the 13-litre engine (1/2) - Euro III

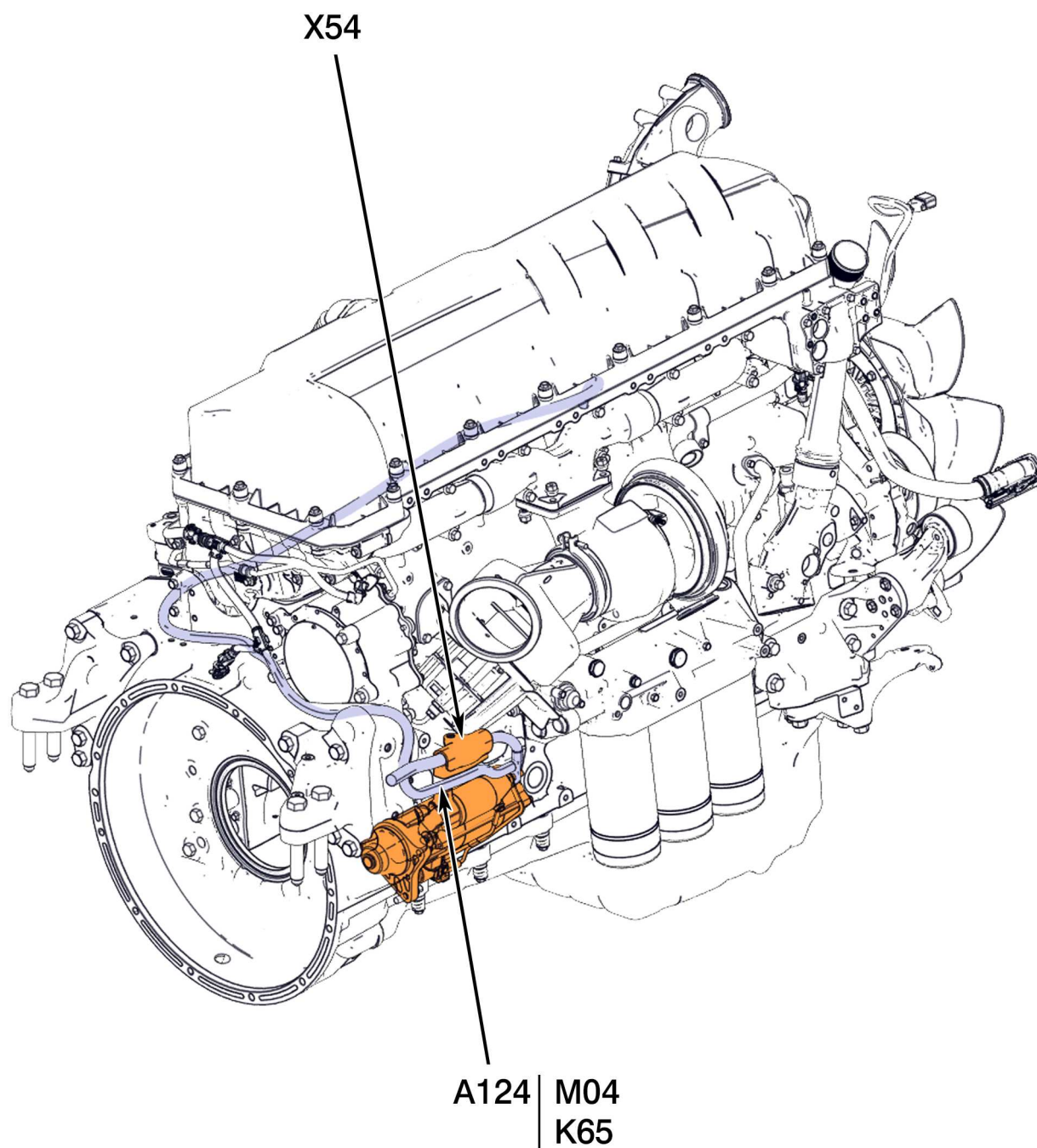
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 13-litre engine (2/2) - Euro III



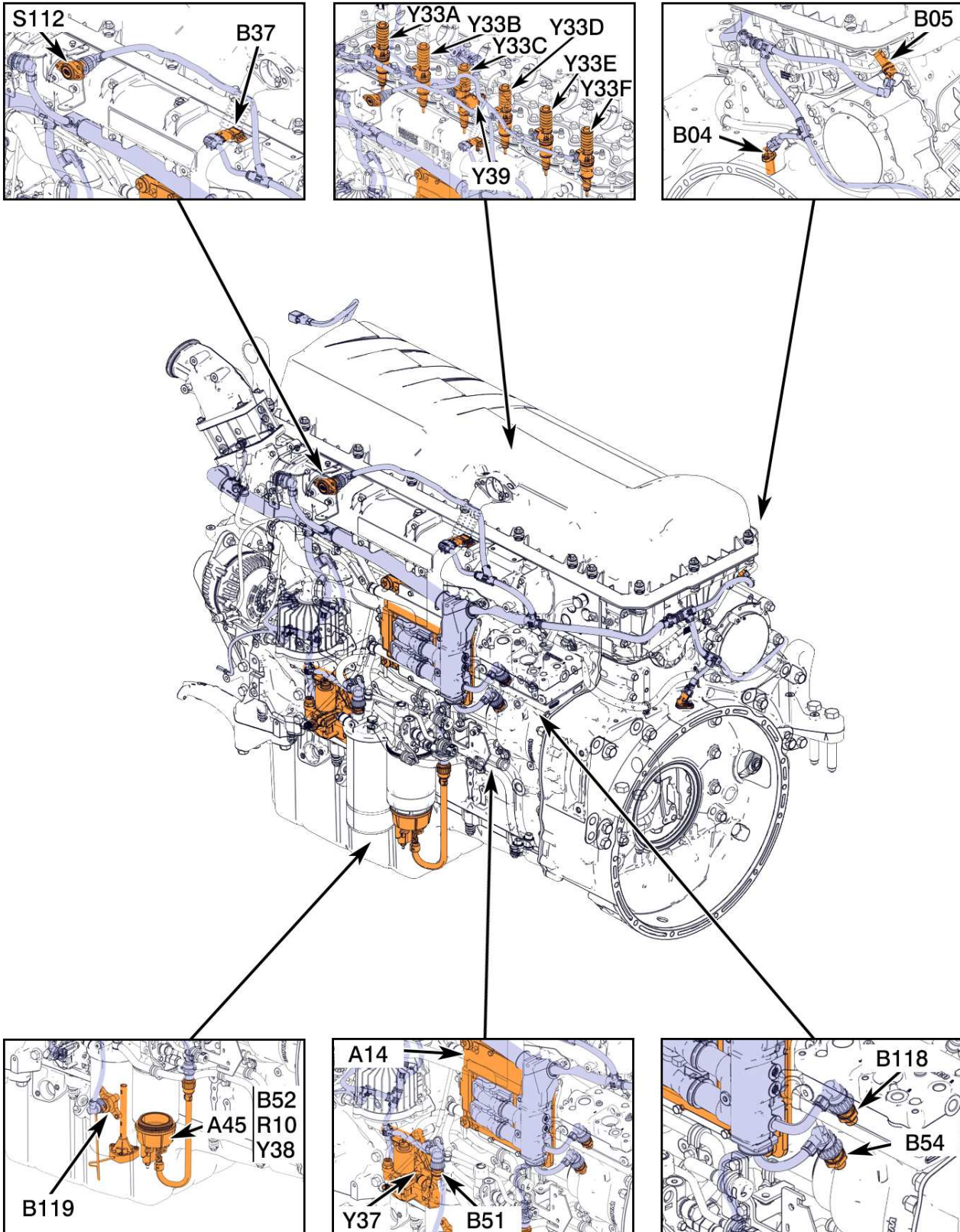
T3099669

Layout of equipment on the 13-litre engine (2/2) - Euro III

Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

Electronic management of 13-litre engine (1/2) - Euro V



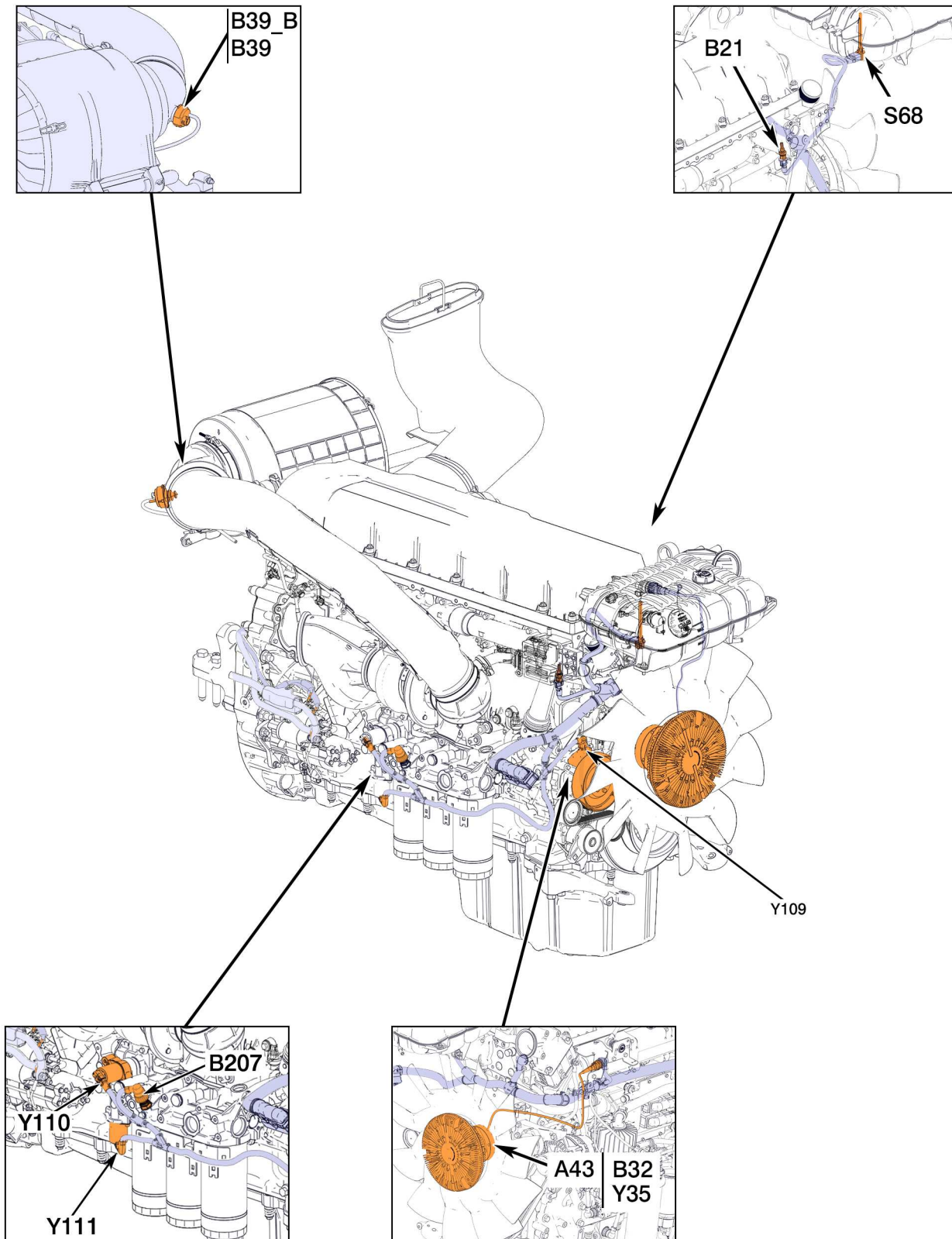
T3098806

Electronic management of 13-litre engine (1/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1B/C1S
A45	Fuel heating unit	C1S
B04	Engine speed sensor on engine flywheel	C1S
B05	Engine speed sensor on camshaft	C1S
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1B
B51	Engine boost pressure sensor	C1B
B52	Water in fuel sensor	C1S
B54	Pressure sensor inside engine block	C1B
B118	Engine oil pressure sensor	C1B
B119	Engine oil level and temperature sensor assembly	C1B
R10	Fuel heater resistor no. 2	C1S
S112	Engine shut down control	C1B
Y33A	No. 1 cylinder injector solenoid valve	C1S
Y33B	No. 2 cylinder injector solenoid valve	C1S
Y33C	No. 3 cylinder injector solenoid valve	C1S
Y33D	No. 4 cylinder injector solenoid valve	C1S
Y33E	No. 5 cylinder injector solenoid valve	C1S
Y33F	No. 6 cylinder injector solenoid valve	C1S
Y37	Solenoid valve assembly for exhaust braking	C1S
Y38	Dryer bleed solenoid valve	C1S
Y39	VTC engine brake solenoid valve	C1S

Electronic management of 13-litre engine (2/2) - Euro V



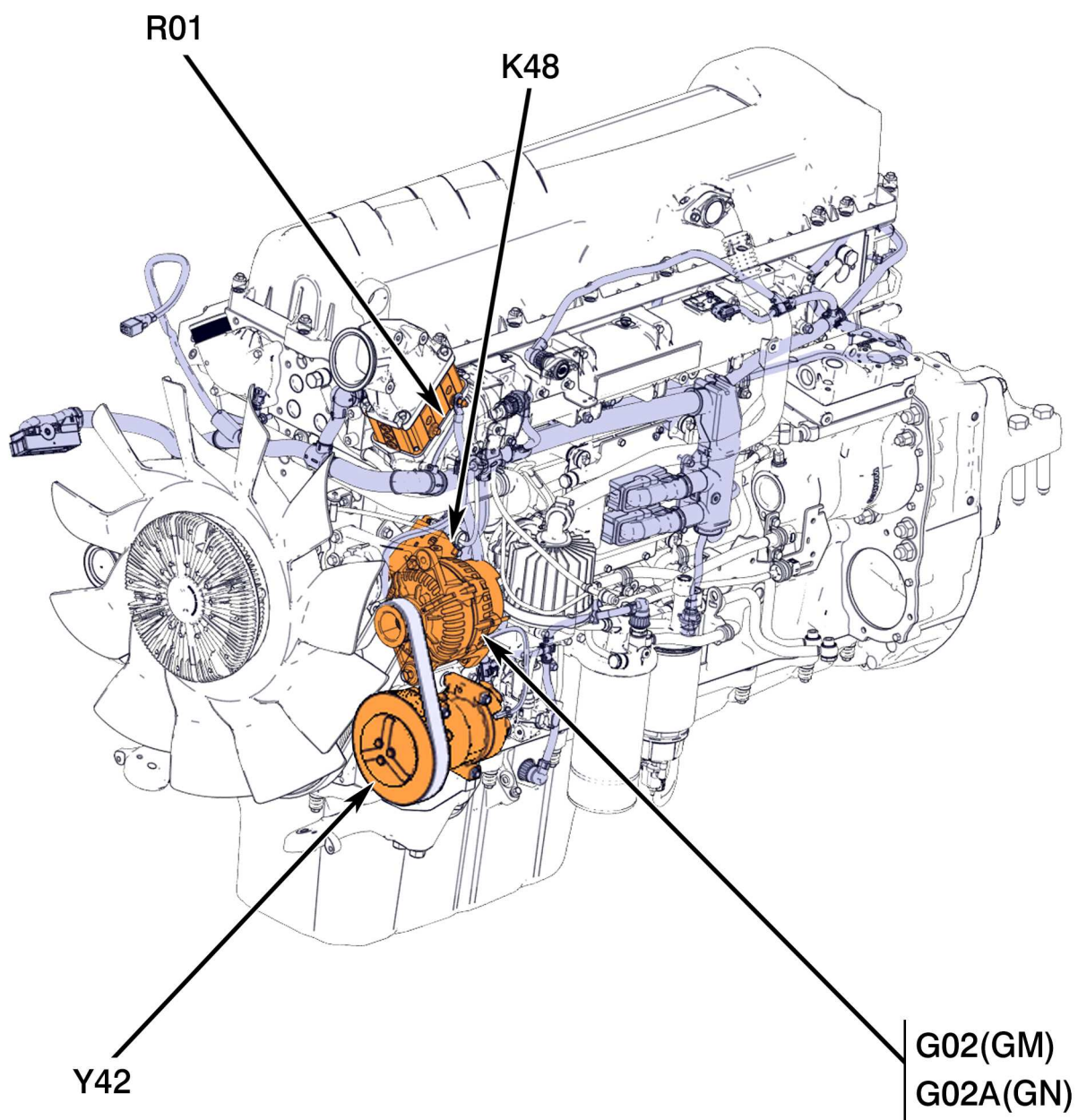
T3120818

Electronic management of 13-litre engine (2/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1B
B21	Engine coolant circuit temperature sensor	C1B
B32	Engine cooling fan speed sensor	C1B
B39	Air filter pressure and temperature sensor	C1B
B39_B	Air filter pressure sensor	C1B
B207	Piston cooling oil pressure sensor	C1B
S68	Engine coolant level sensor	C1S
Y35	Engine cooling fan speed regulation solenoid valve	C1B
Y109	Water pump electromagnetic clutch	C1S
Y110	Oil cooling solenoid valve	C1S
Y111	Piston cooling solenoid valve	C1S

Layout of equipment on the 13-litre engine (1/2) - Euro V



T3116263

Layout of equipment on the 13-litre engine (1/2) - Euro V

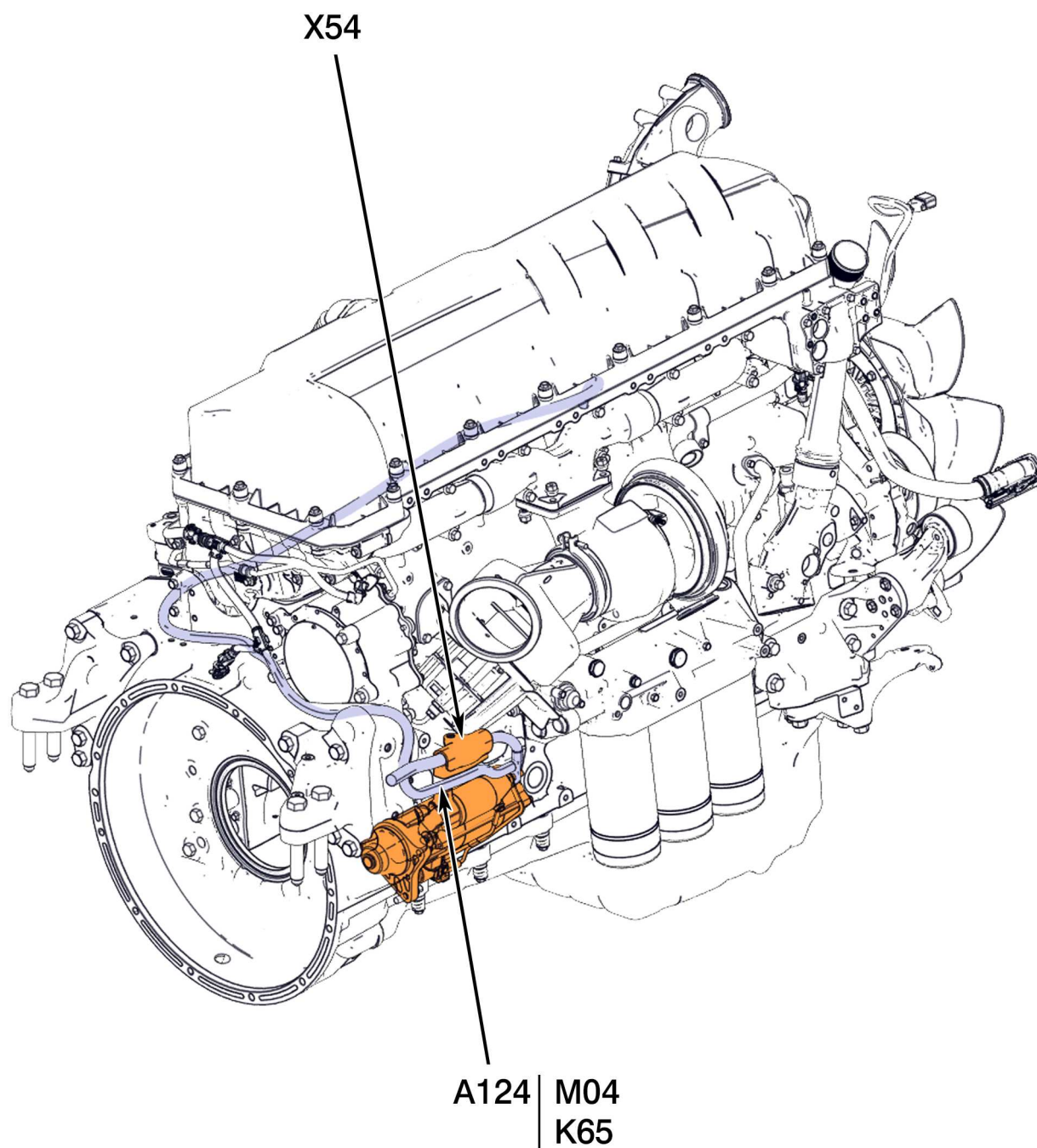
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 13-litre engine (2/2) - Euro V



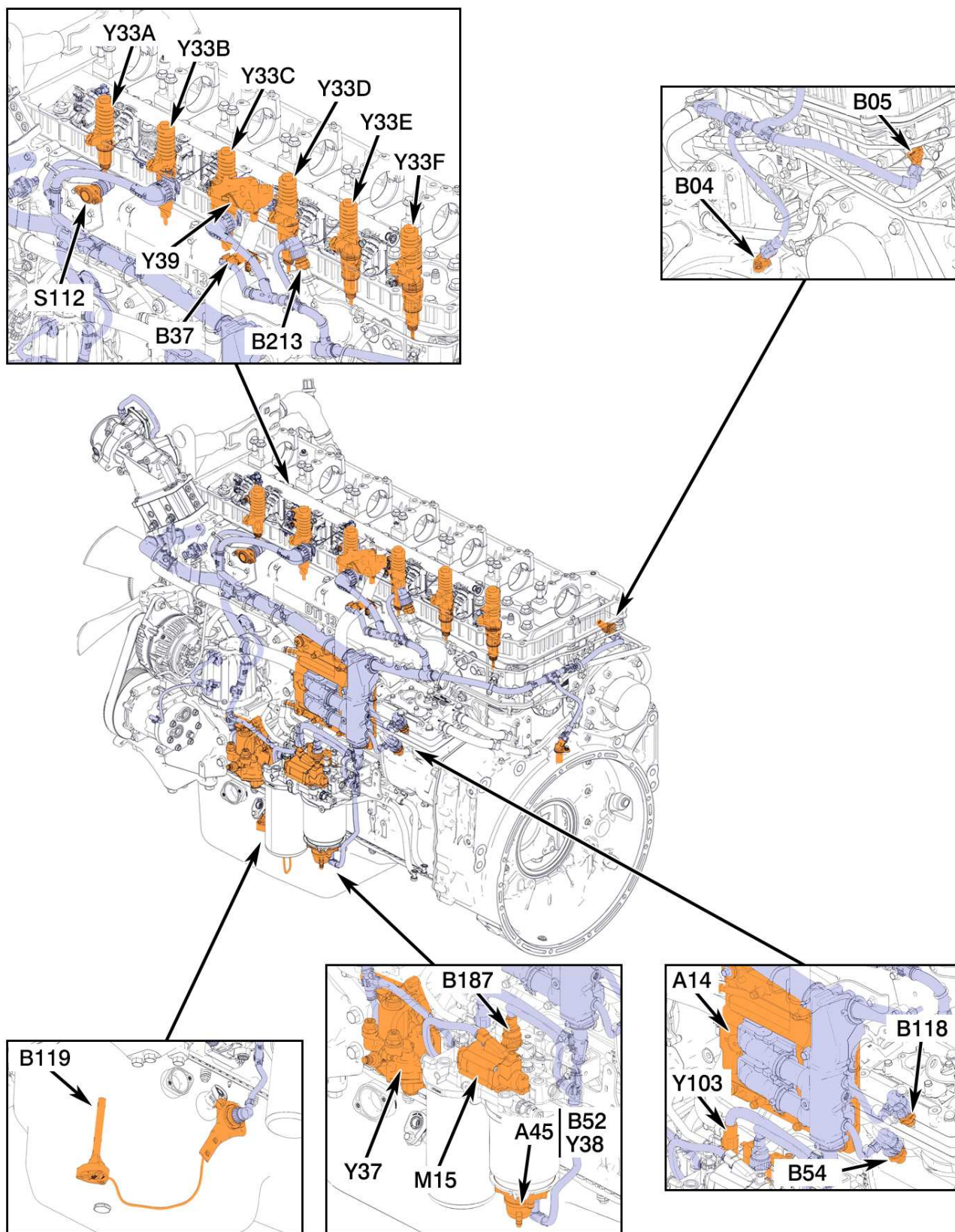
T3098816

Layout of equipment on the 13-litre engine (2/2) - Euro V

Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (1/2)



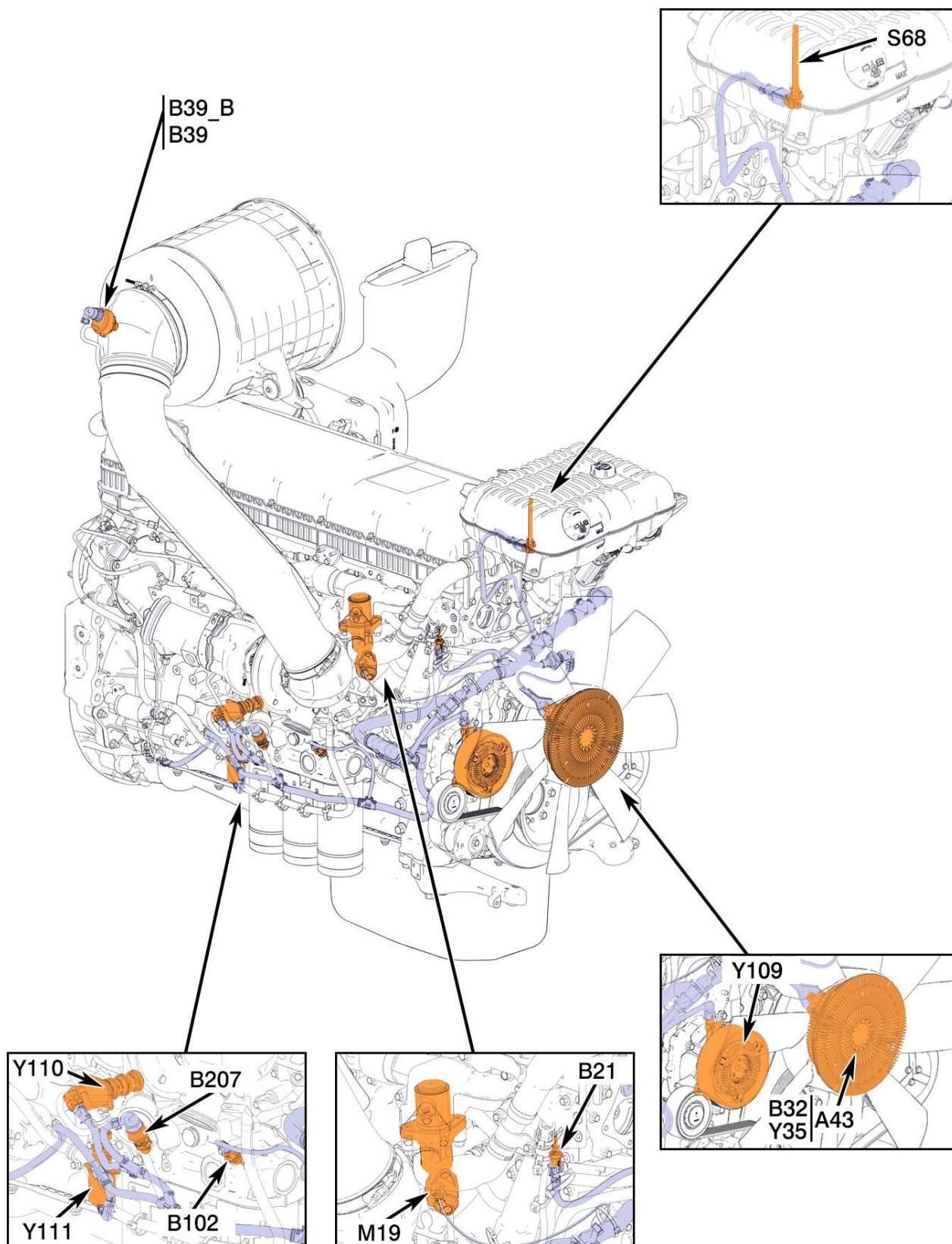
T3098626

13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (1/2)

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1D/C1U
A45	Fuel heating unit	C1U
B04	Engine speed sensor on engine flywheel	C1U
B05	Engine speed sensor on camshaft	C1U
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1D
B52	Water in fuel sensor	C1U
B54	Pressure sensor inside engine block	C1D
B118	Engine oil pressure sensor	C1D
B119	Engine oil level and temperature sensor assembly	C1D
B187	Diesel fuel pressure sensor for exhaust injector	C1D
B213	Exhaust back-pressure sensor	C1D
M15	Electric fuel priming pump	C1U
S112	Engine shut down control	C1D
Y33A	No. 1 cylinder injector solenoid valve	C1U
Y33B	No. 2 cylinder injector solenoid valve	C1U
Y33C	No. 3 cylinder injector solenoid valve	C1U
Y33D	No. 4 cylinder injector solenoid valve	C1U
Y33E	No. 5 cylinder injector solenoid valve	C1U
Y33F	No. 6 cylinder injector solenoid valve	C1U
Y37	Solenoid valve assembly for exhaust braking	C1U
Y38	Dryer bleed solenoid valve	C1U
Y39	VTC engine brake solenoid valve	C1U
Y103	Exhaust injector solenoid valve	C1D

13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (2/2)



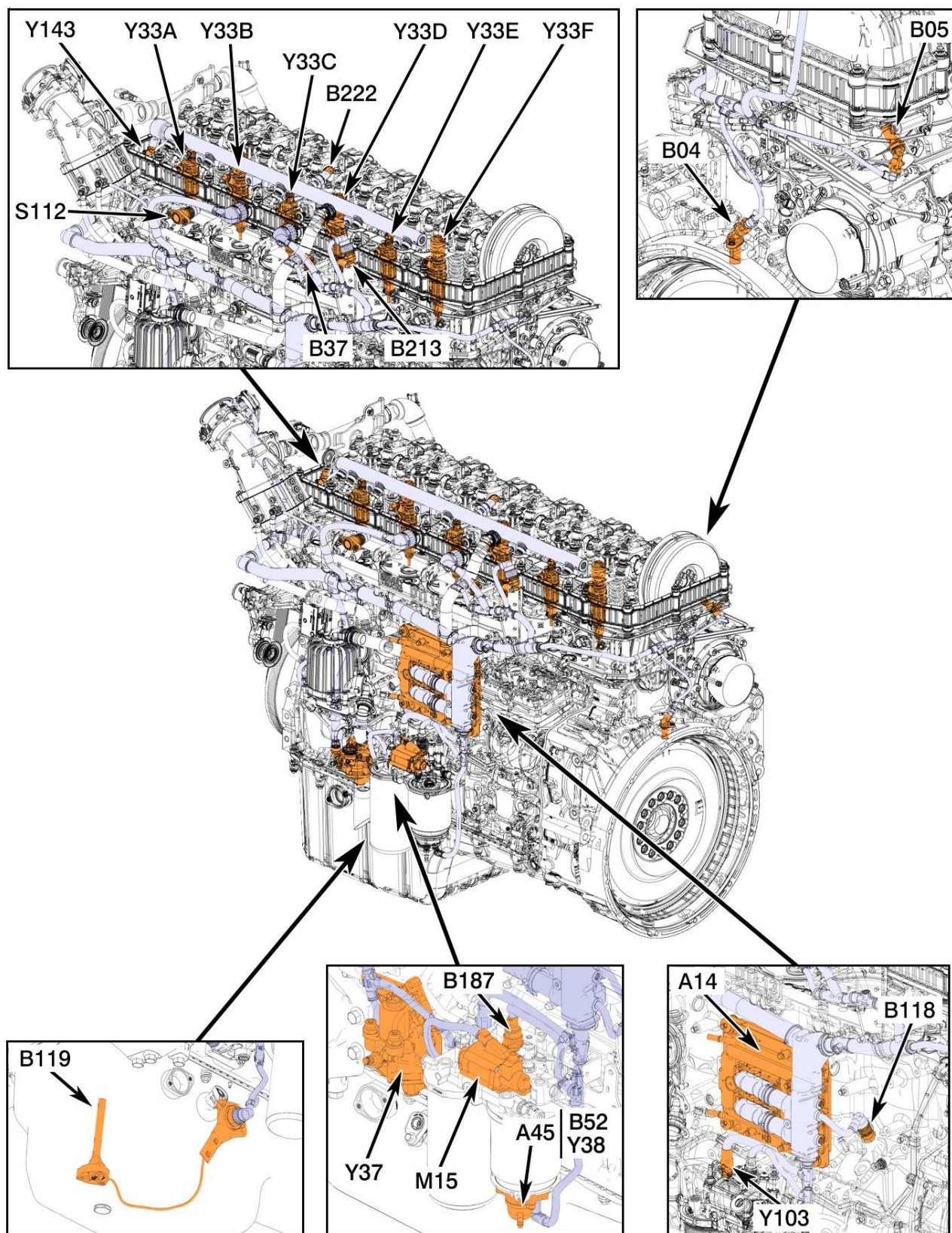
T3108352

13-litre engine electronic management – Euro VI Phase 1 OBDEP-A (2/2)

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1D
B21	Engine coolant circuit temperature sensor	C1D
B32	Engine cooling fan speed sensor	C1D
B39	Air filter pressure and temperature sensor	C1D
B39_B	Air filter pressure sensor	C1D
B102	Oil temperature sensor on oil filter holder	C1D
B207	Piston cooling oil pressure sensor	C1D
M19	Exhaust gas recirculation solenoid valve	C1U
S68	Engine coolant level sensor	C1U
Y35	Engine cooling fan speed regulation solenoid valve	C1D
Y109	Water pump electromagnetic clutch	C1U
Y110	Oil cooling solenoid valve	C1U
Y111	Piston cooling solenoid valve	C1U

13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (1/2)



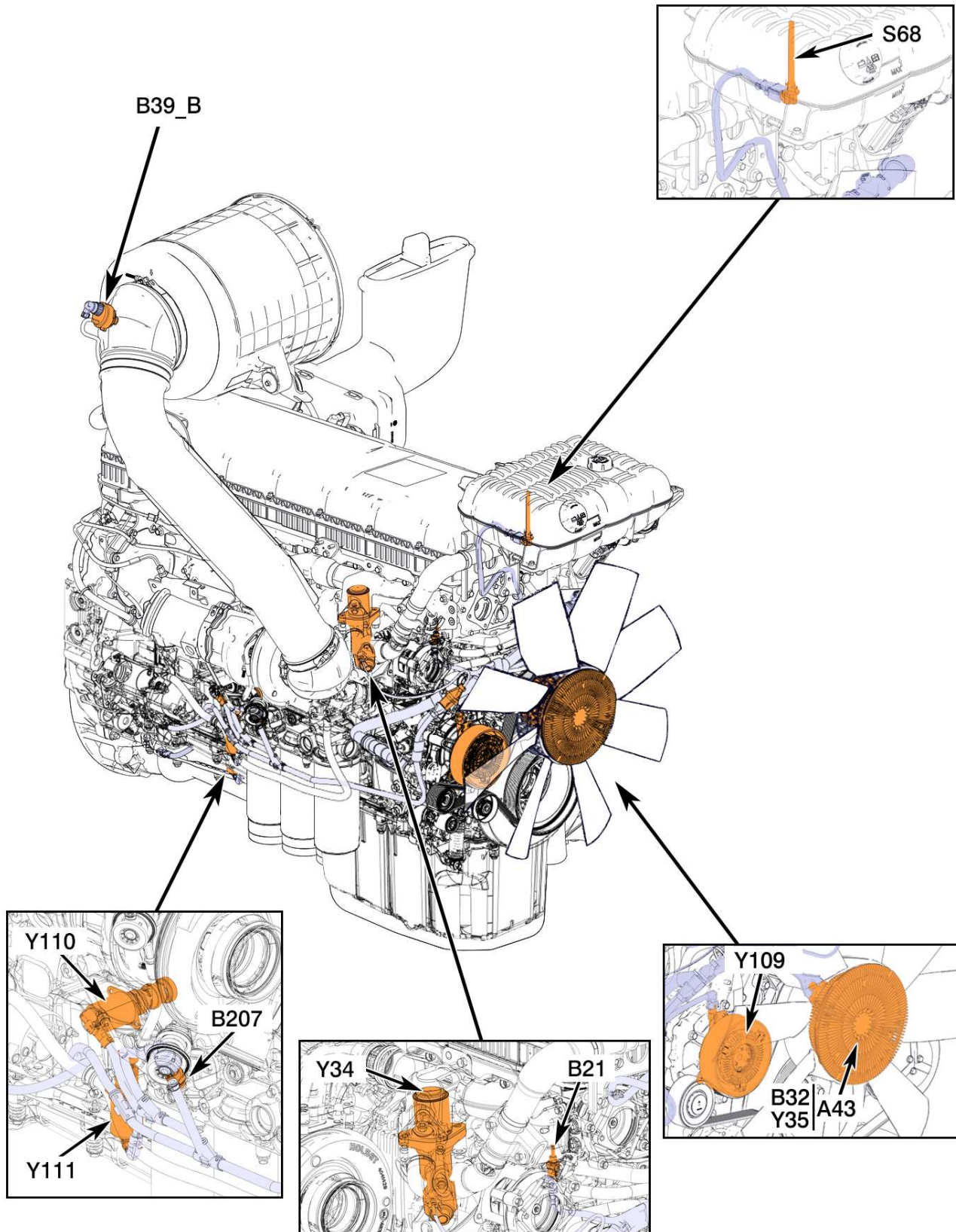
T3116199

13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (1/2)

Key to devices

Code	Function description	Diagram page No.
A14	Engine electronic control unit (EECU)	C1G/C1X
A45	Fuel heating unit	C1X
B04	Engine speed sensor on engine flywheel	C1X
B05	Engine speed sensor on camshaft	C1X
B37	Turbocharging circuit air pressure and temperature sensors assembly	C1G
B52	Water in fuel sensor	C1X
B118	Engine oil pressure sensor	C1G
B119	Engine oil level and temperature sensor assembly	C1G
B187	Diesel fuel pressure sensor for exhaust injector	C1G
B213	Exhaust back-pressure sensor	C1G
B222	Rail fuel high pressure sensor	C1X
M15	Electric fuel priming pump	C1X
S112	Engine shut down control	C1G
Y33A	No. 1 cylinder injector solenoid valve	C1X
Y33B	No. 2 cylinder injector solenoid valve	C1X
Y33C	No. 3 cylinder injector solenoid valve	C1X
Y33D	No. 4 cylinder injector solenoid valve	C1X
Y33E	No. 5 cylinder injector solenoid valve	C1X
Y33F	No. 6 cylinder injector solenoid valve	C1X
Y37	Solenoid valve assembly for exhaust braking	C1X
Y38	Dryer bleed solenoid valve	C1X
Y103	Exhaust injector solenoid valve	C1G
Y143	Rail high pressure regulation solenoid valve	C1X

13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (2/2)



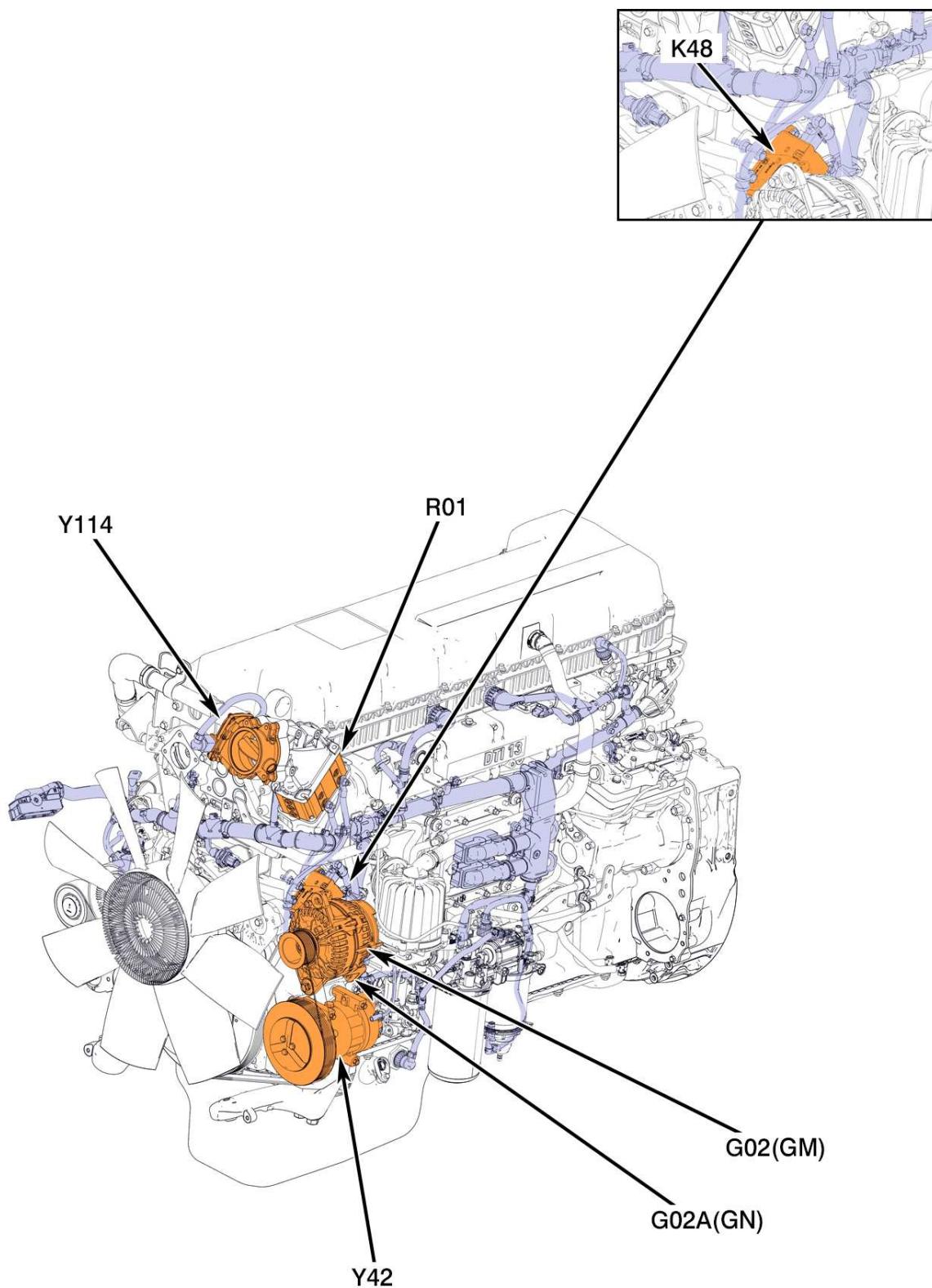
T3116200

13-litre engine electronic management – Euro VI Phase 2 OBDEP-C (2/2)

Key to devices

Code	Function description	Diagram page No.
A43	Engine fan speed regulator unit	C1G
B21	Engine coolant circuit temperature sensor	C1G
B32	Engine cooling fan speed sensor	C1G
B39_B	Air filter pressure sensor	C1G
B207	Piston cooling oil pressure sensor	C1G
S68	Engine coolant level sensor	C1X
Y34	Exhaust gas recirculation solenoid valve	C1X
Y35	Engine cooling fan speed regulation solenoid valve	C1G
Y109	Water pump electromagnetic clutch	C1X
Y110	Oil cooling solenoid valve	C1X
Y111	Piston cooling solenoid valve	C1X

Layout of equipment on the 13-litre engine (1/2) - Euro VI



T3116264

Layout of equipment on the 13-litre engine (1/2) - Euro VI

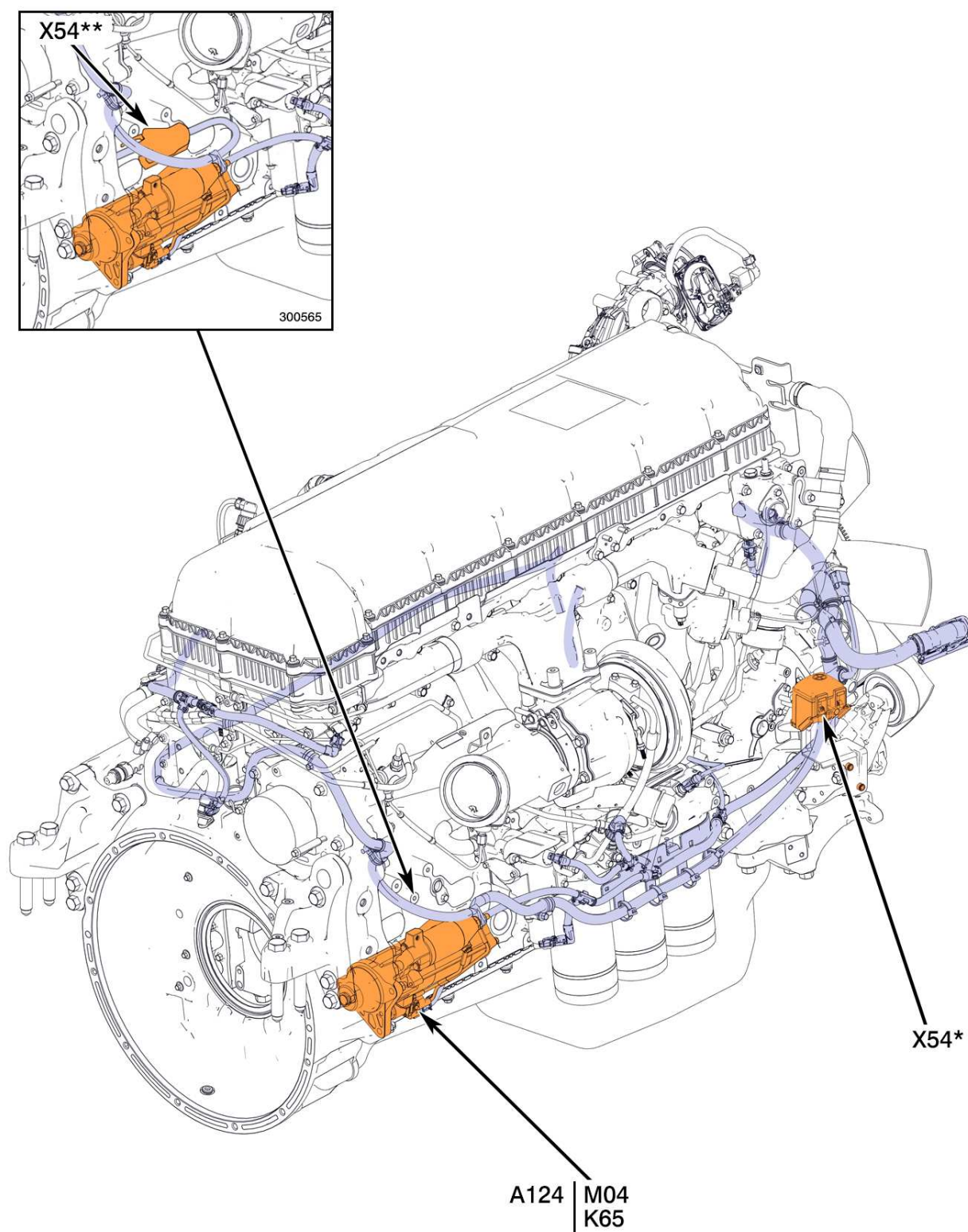
Key to devices

Code	Function description	Diagram page No.
G02	Alternator	BA2
G02A	Alternator	BA2
K48	Intake air preheating power supply relay	CCT
R01	Intake air preheating resistor	CCT
Y42	Air conditioning compressor electric clutch	GBP
Y114	Air flow regulation solenoid valve	C1D/C1G

GM : **Bosch** alternator

GN : **Melco** alternator

Layout of equipment on the 13-litre engine (2/2) - Euro VI



T3098629

Layout of equipment on the 13-litre engine (2/2) - Euro VI

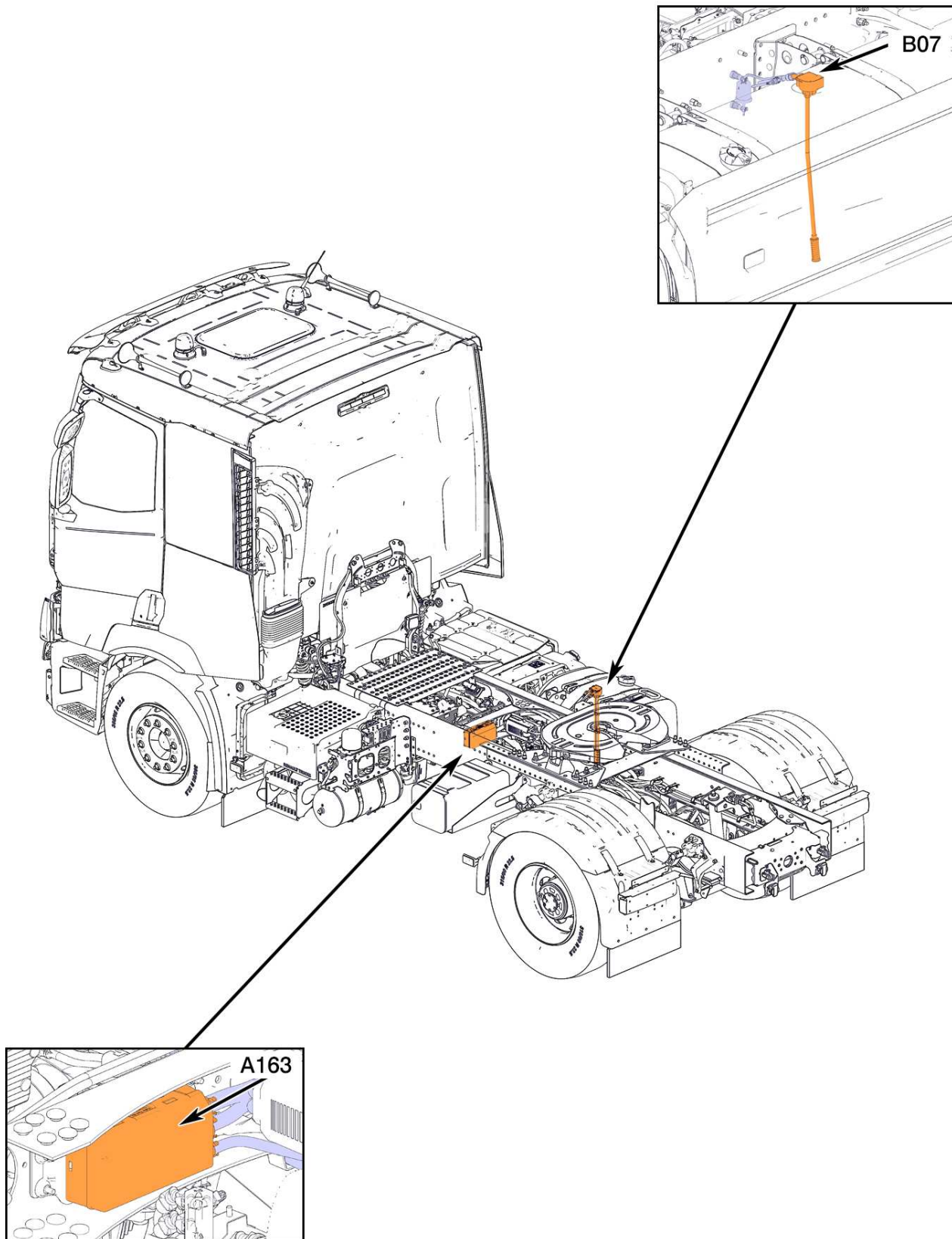
Key to devices

Code	Function description	Diagram page No.
A124	Starter motor assembly	BA2
K65	Starter motor relay	BA2
M04	Starter	BA2
X54	Starter power supply lead intermediate connector	BA2

* : for vehicles manufactured before **30/11/2014**

** : for vehicles manufactured after **01/12/2014**

Fuel management



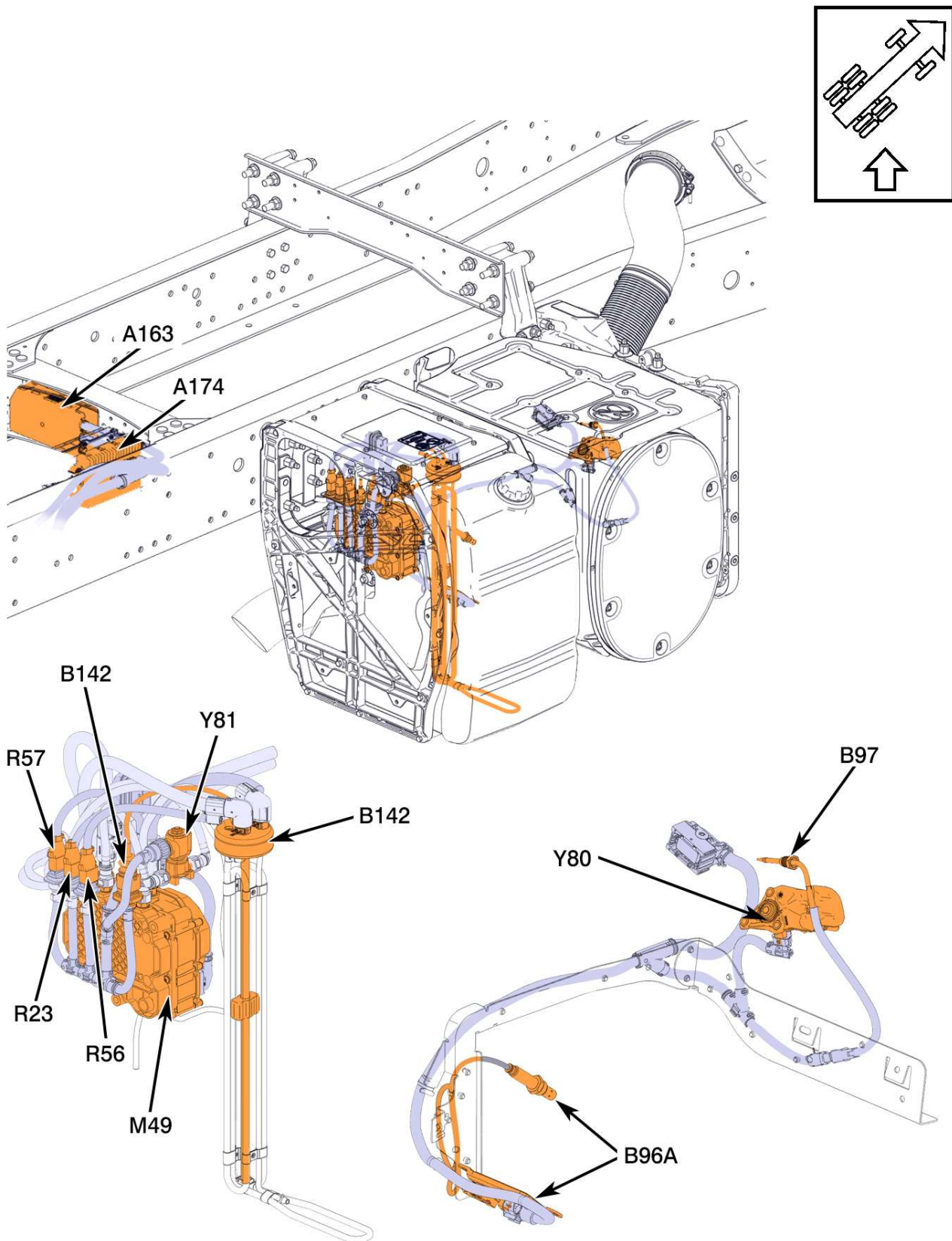
T3098630

Fuel management

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
B07	Fuel level sensor	CDU

Urea supply management with right-hand side tank - Euro V



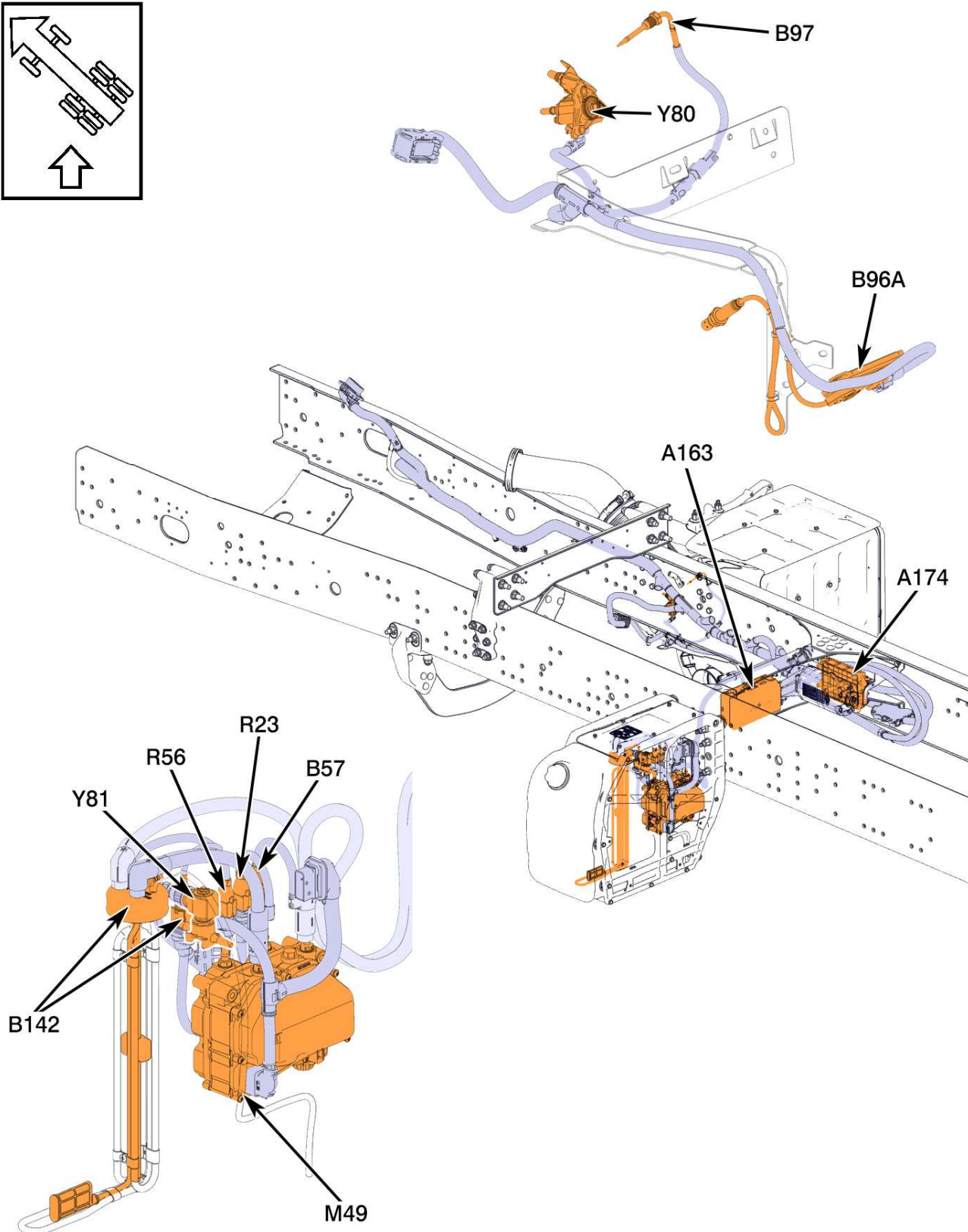
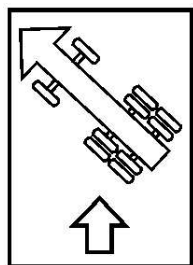
T3098818

Urea supply management with right-hand side tank - Euro V

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B142	Urea tank temperature and level sensor assembly	C2F
M49	Urea supply pump module assembly	C2F
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	C2F
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	C2F
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2F
Y80	Urea supply metering solenoid valve	C2E
Y81	Cooling solenoid valve for the urea	C2F

Urea supply management with left-hand side tank - Euro V



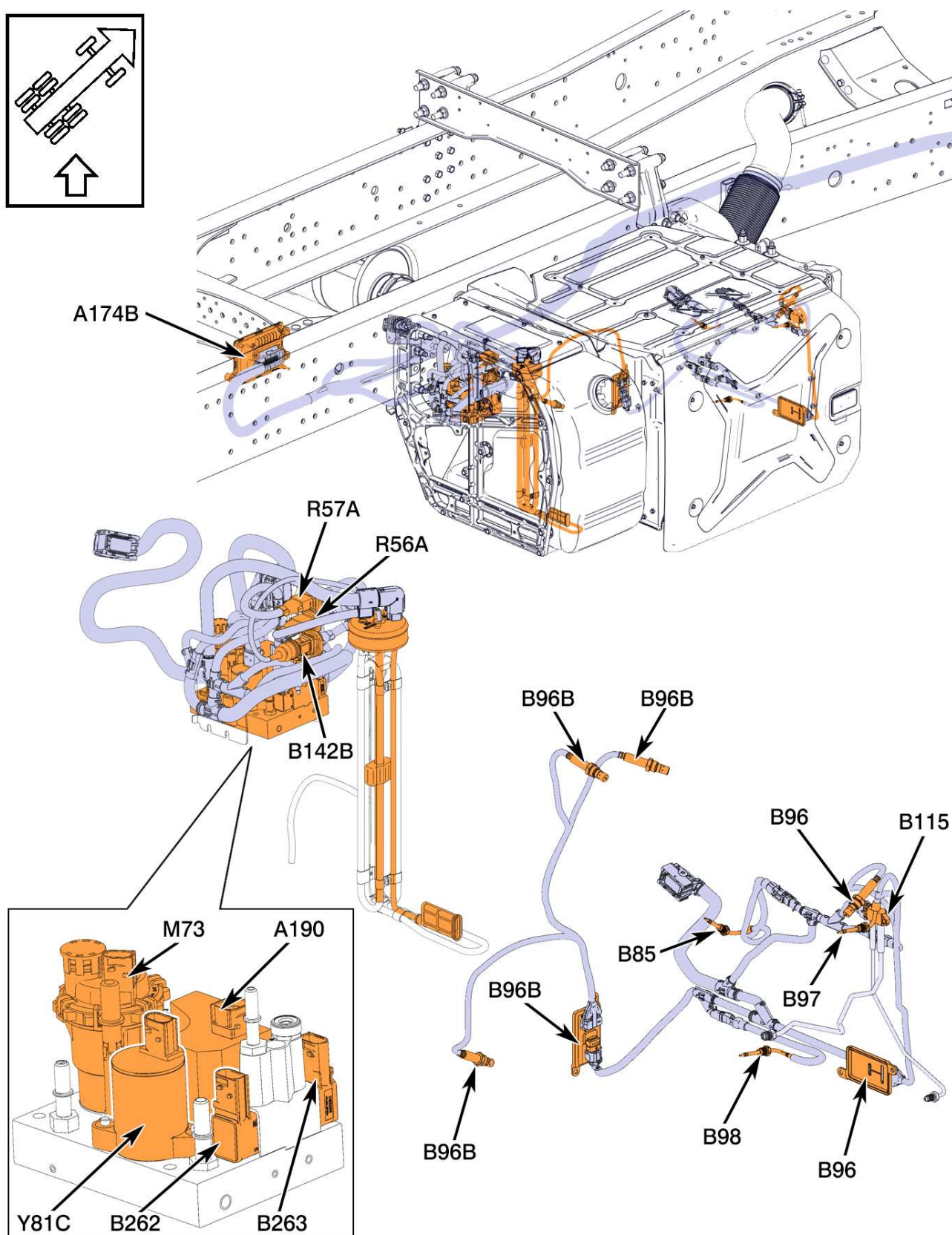
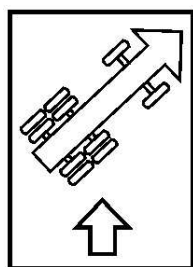
T3098817

Urea supply management with left-hand side tank - Euro V

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	C2C/C2E
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B142	Urea tank temperature and level sensor assembly	C2F
M49	Urea supply pump module assembly	C2F
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	C2F
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	C2F
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2F
Y80	Urea supply metering solenoid valve	C2E
Y81	Cooling solenoid valve for the urea	C2F

Urea supply management with right-hand side tank - Euro VI



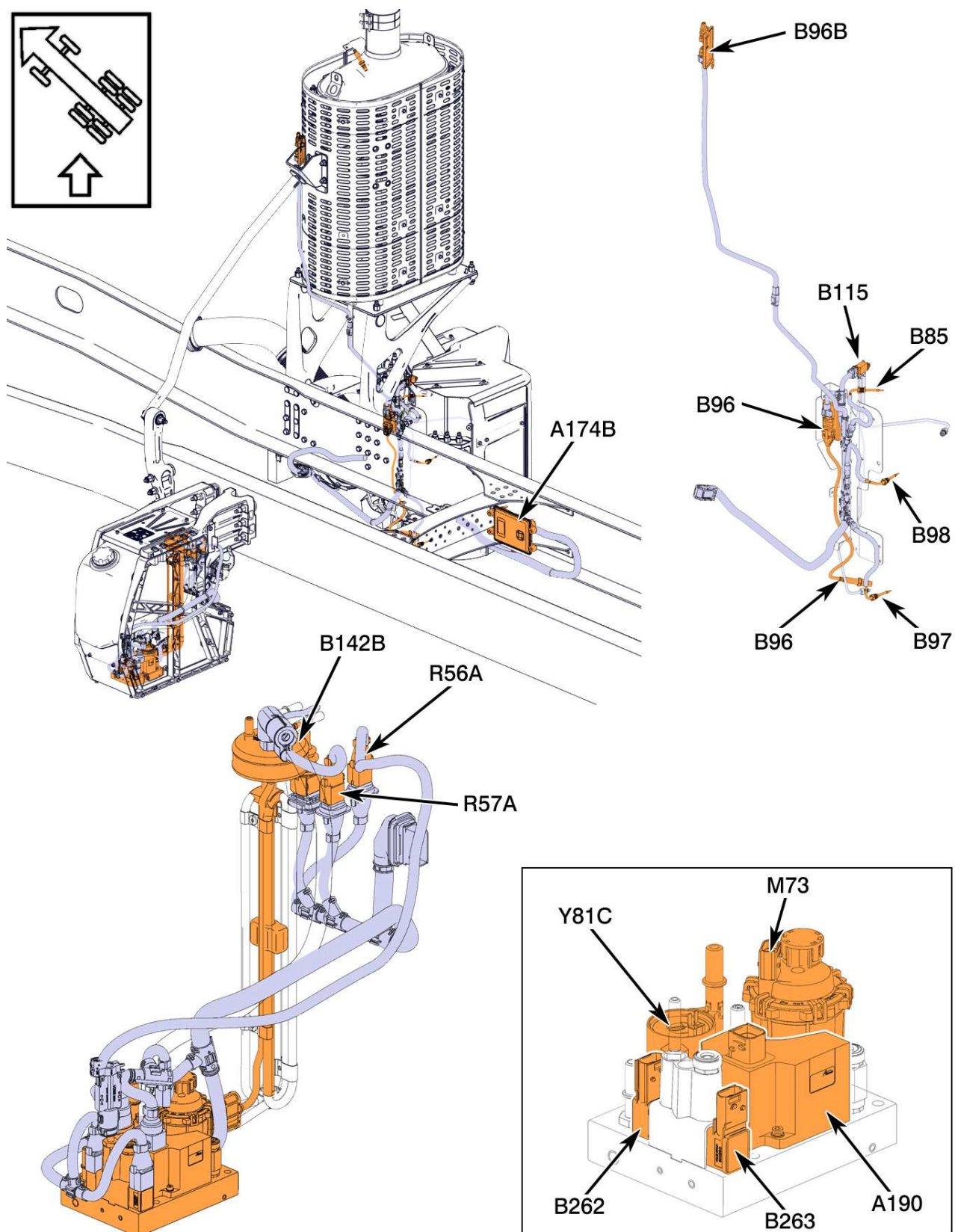
T3098632

Urea supply management with right-hand side tank - Euro VI

Key to devices

Code	Function description	Diagram page No.
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A190	Air control solenoid and urea temperature sensor assembly	C2D
B85	Exhaust gas temperature sensor upstream of particulate filter	C2C
B96	Nitrogen oxide concentration sensor	C2C
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B98	Exhaust gas temperature sensor downstream of catalytic converter	C2C
B115	Exhaust gases relative pressure sensor in the particulate filter	C2C
B142B	Urea tank temperature and level sensor assembly	C2D/C2F
B262	Urea pressure sensor	C2D
B263	Air pressure sensor inside the urea tank	C2D
M73	Urea supply metering pump	C2D
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	C2D
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2D
Y81C	Cooling solenoid valve for the urea	C2D

Urea supply management with left-hand side tank - Euro VI



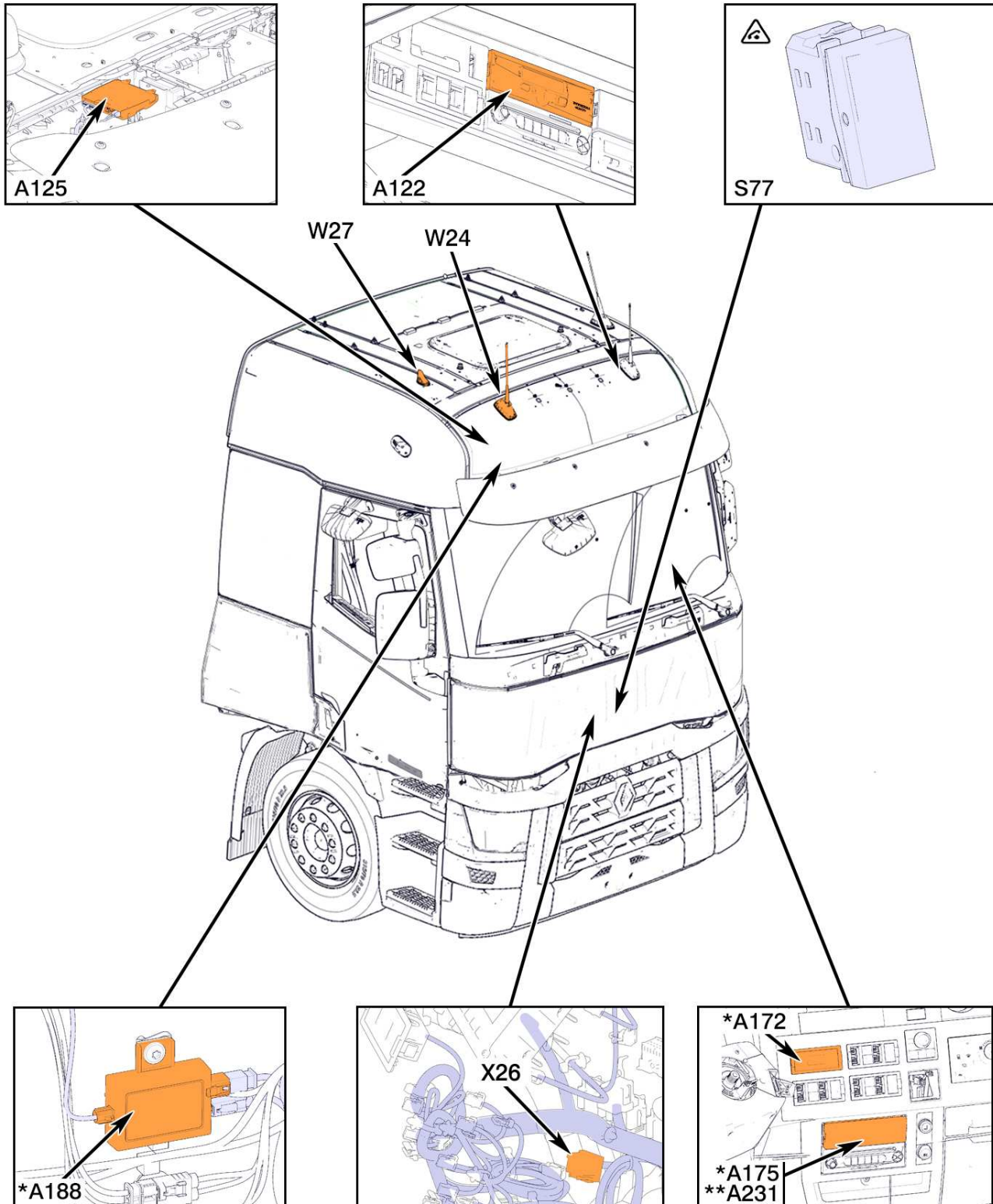
T3099675

Urea supply management with left-hand side tank - Euro VI

Key to devices

Code	Function description	Diagram page No.
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
A190	Air control solenoid and urea temperature sensor assembly	C2D
B85	Exhaust gas temperature sensor upstream of particulate filter	C2C
B96	Nitrogen oxide concentration sensor	C2C
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
B97	Exhaust gas temperature sensor upstream of catalytic converter	C2C/C2E
B98	Exhaust gas temperature sensor downstream of catalytic converter	C2C
B115	Exhaust gases relative pressure sensor in the particulate filter	C2C
B142B	Urea tank temperature and level sensor assembly	C2D/C2F
B262	Urea pressure sensor	C2D
B263	Air pressure sensor inside the urea tank	C2D
M73	Urea supply metering pump	C2D
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	C2D
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2D
Y81C	Cooling solenoid valve for the urea	C2D

Vehicle management - Fleet management - Telematics



T3130644

Vehicle management - Fleet management - Telematics

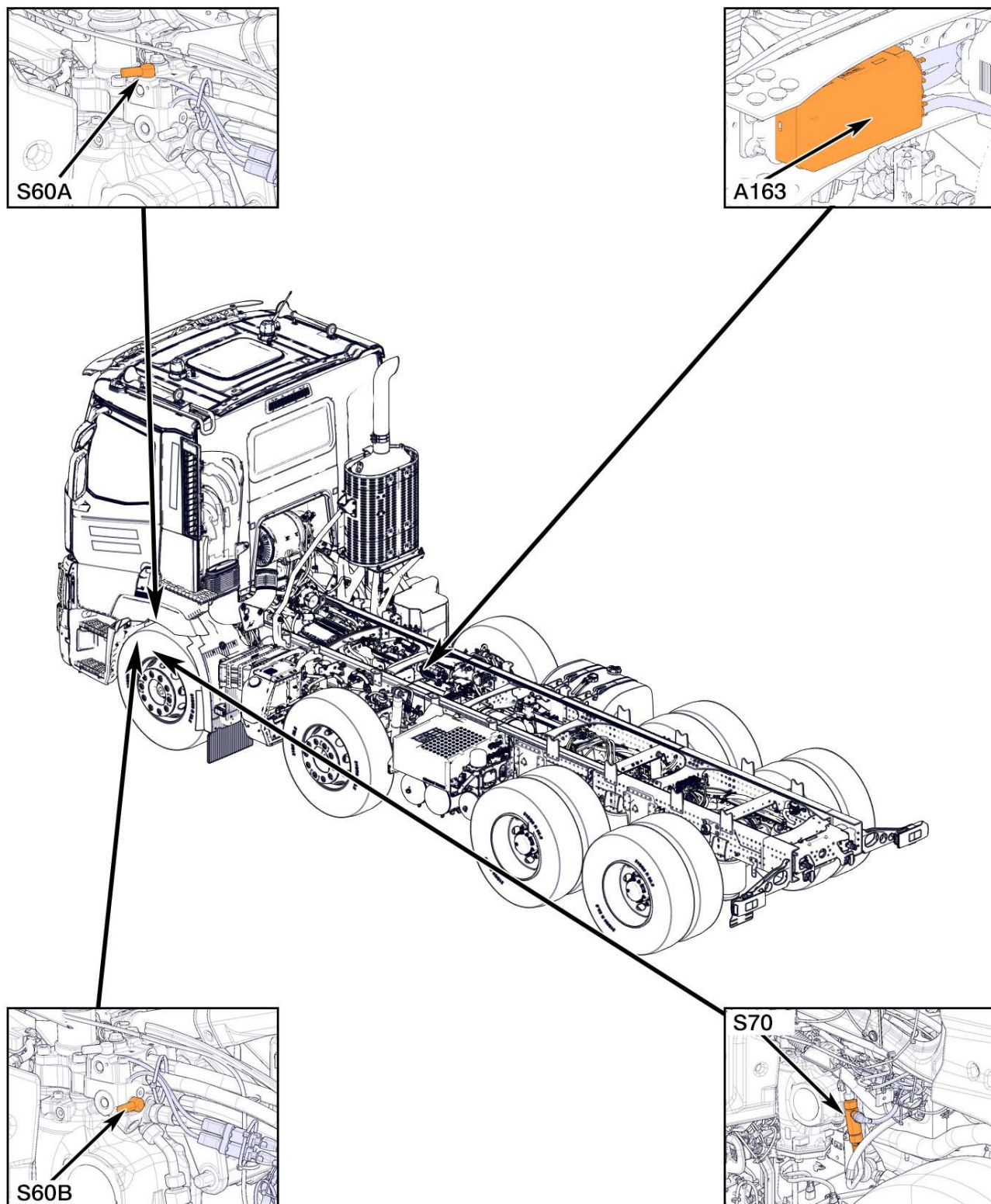
Key to devices

Code	Function description	Diagram page No.
A122	Remote payment system management control unit	CBK
A125	On-board management system interface control unit	CBT
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	CBT
A175	Additional telematics management control unit (TESP)	CBT
A188	FM signal distributor	CBT
A231	Service and entertainment module (SEM)	GDI
S77	Emergency call control	CBT
W24	Satellite antenna and radio set	CBT
W27	GPS antenna	CBK
X26	Onboard management pre-arrangement (ECU)	CBK

* : vehicles manufactured before **10/09/2018**

** : vehicles manufactured after **09/09/2018**

Power-assisted steering management



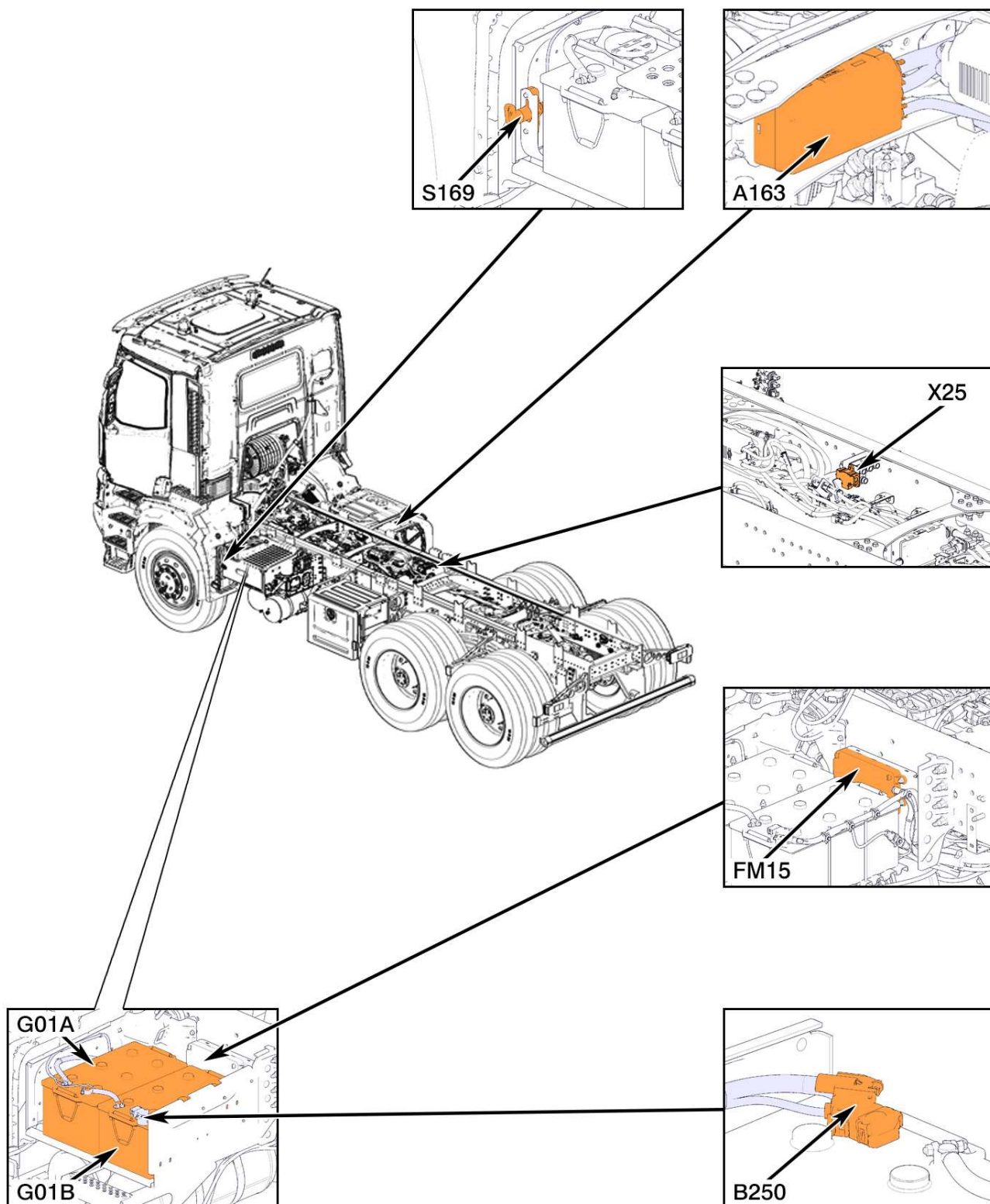
T3099758

Power-assisted steering management

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
S60A	Sensor no. 1 for oil pressure in power steering circuit	CKD
S60B	Sensor no. 2 for oil pressure in power steering circuit	CKD
S70	Power steering oil flow sensor	CKD

Energy production – Standard production



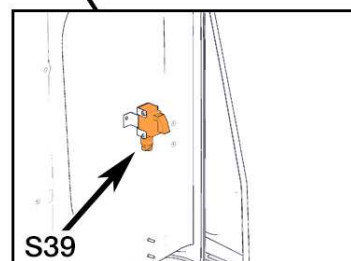
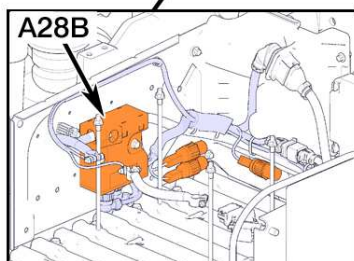
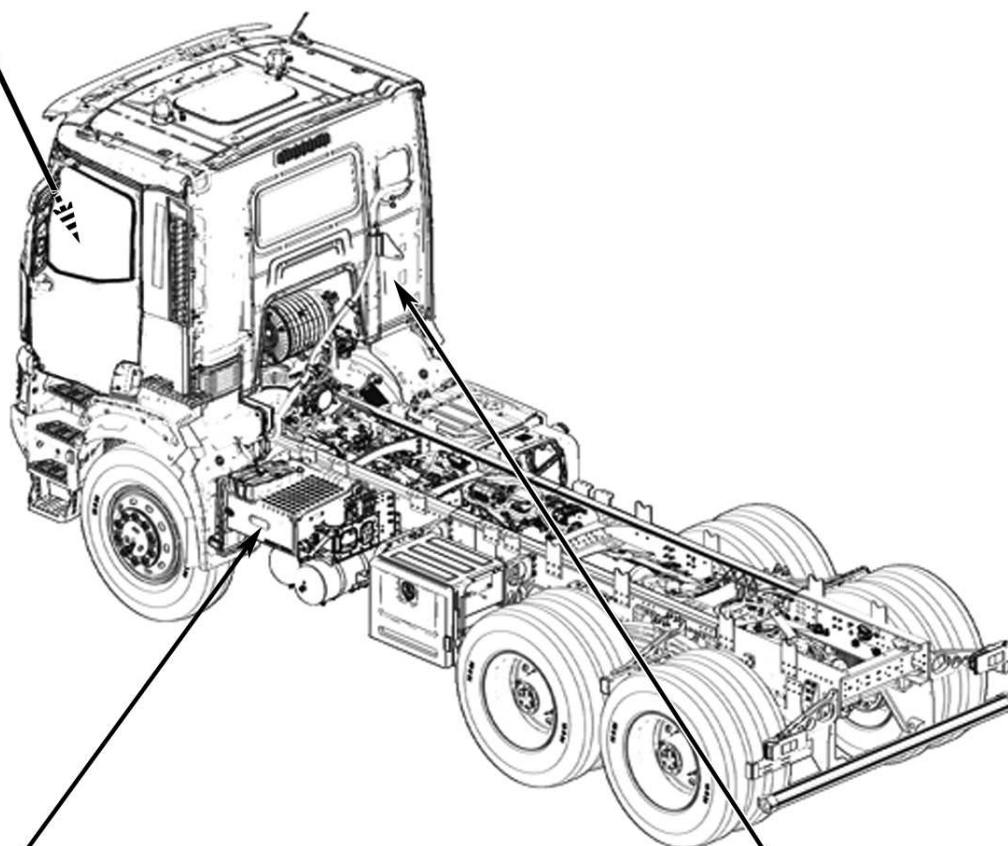
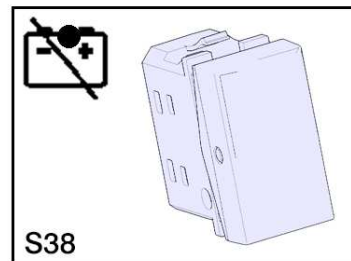
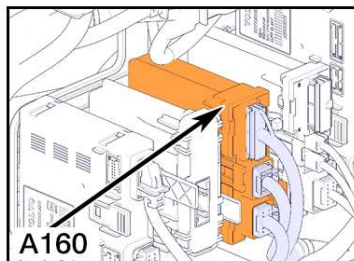
T3099770

Energy production – Standard production

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
B250	24 V DC battery charge status sensor	BA2
FM15	Power fuse box	BA2
G01A	12 V DC battery No. 1	BA2
G01B	12 V DC battery No. 2	BA2
S169	Engine emergency stop control (on the chassis)	BAH
X25	Socket	BA2

Energy production – ADR equipment



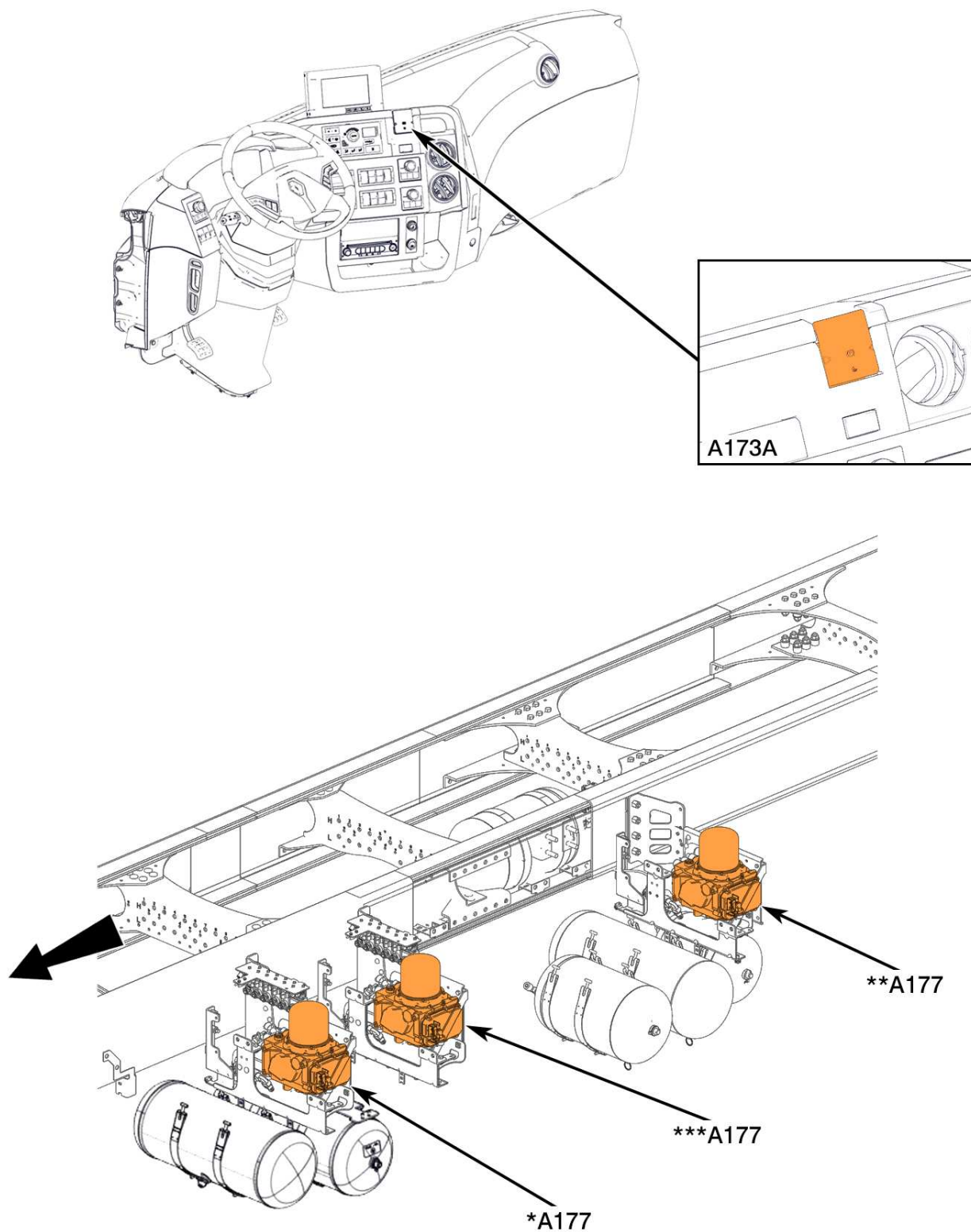
T3099771

Energy production – ADR equipment

Key to devices

Code	Function description	Diagram page No.
A28B	ADR vehicle master power supply management control unit	BA3
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
S38	Vehicle emergency stop control	BA3
S39	Vehicle emergency stop control	BA3

Air production management on rigid



T3098705

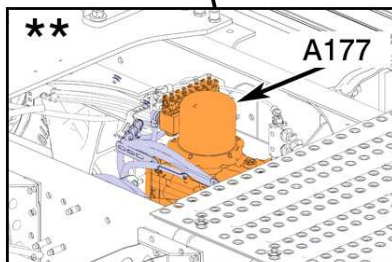
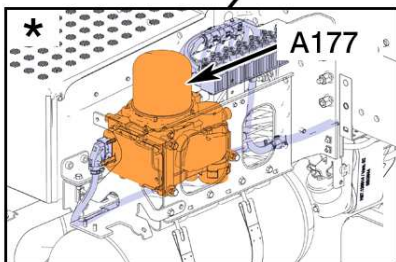
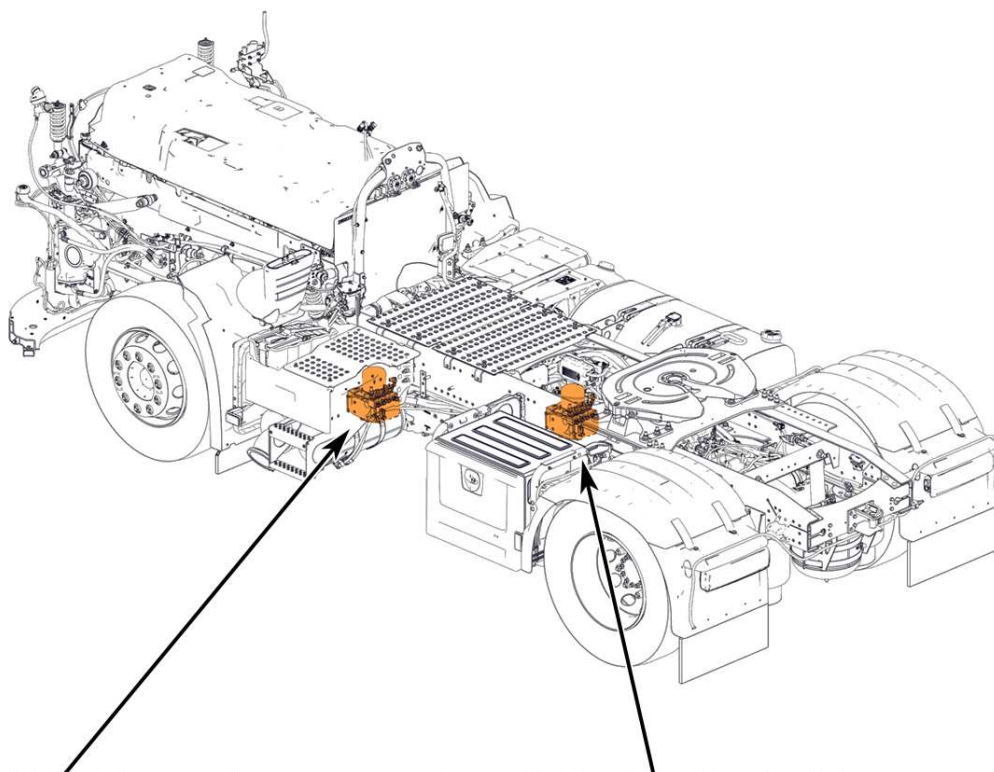
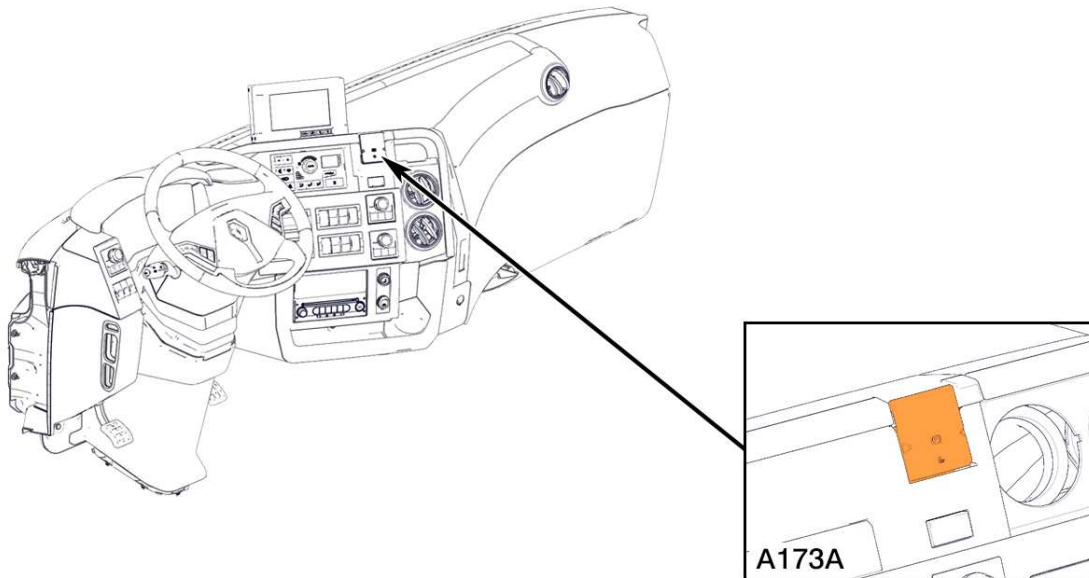
Air production management on rigid

Key to devices

Code	Function description	Diagram page No.
A173A	Parking brake electrical control	CKL
A177	Air production management control unit (APM)	CKL

- * : **4x2 - 6x2 - 6x4** vehicles
- ** : **8x2 - 8x4** vehicles
- *** : other cases of use

Air production management on tractor



T3098706

Air production management on tractor

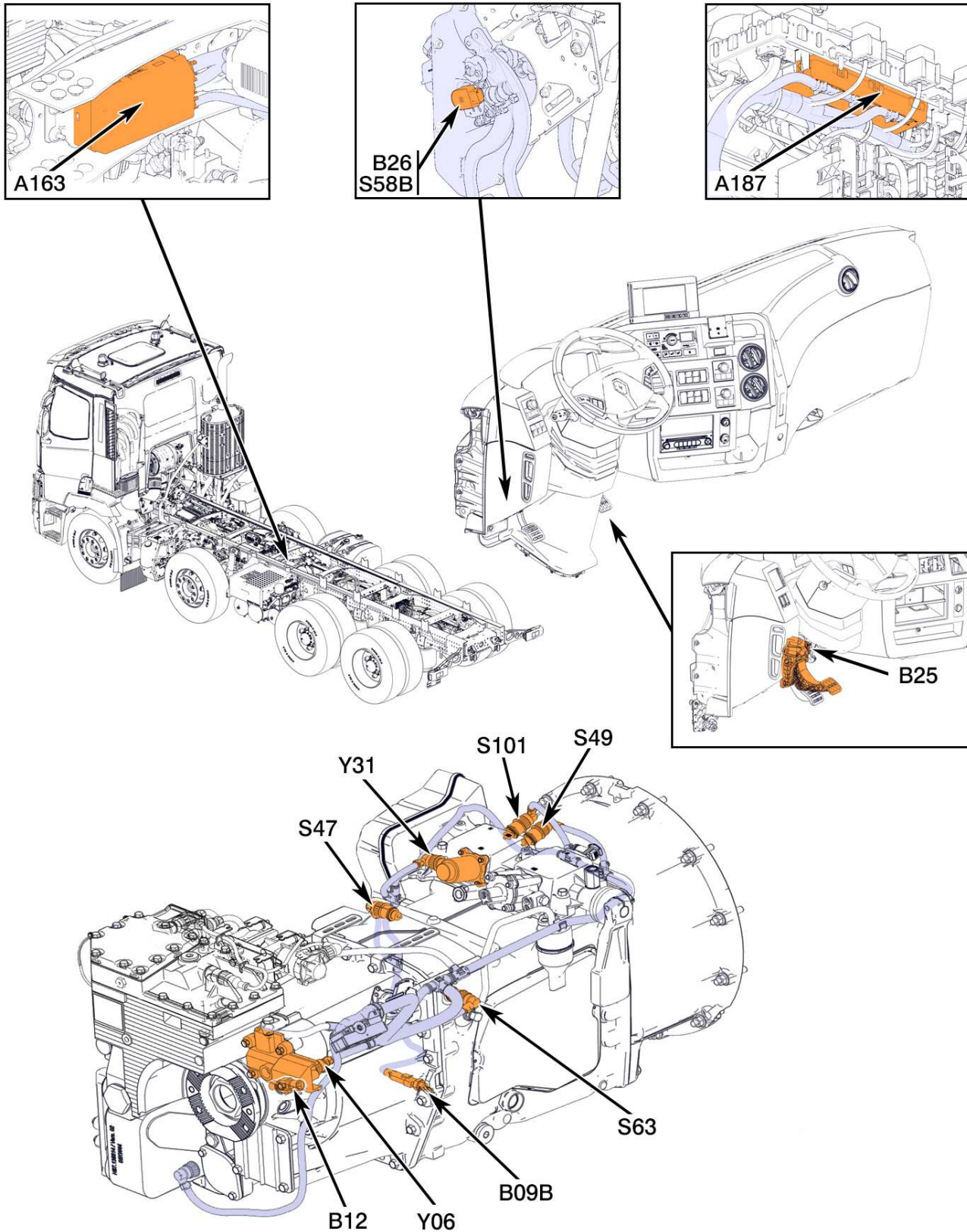
Key to devices

Code	Function description	Diagram page No.
A173A	Parking brake electrical control	CKL
A177	Air production management control unit (APM)	CKL

* : With **APM** outside the chassis

** : With **APM** inside the chassis

Gearbox management – Manual gearbox



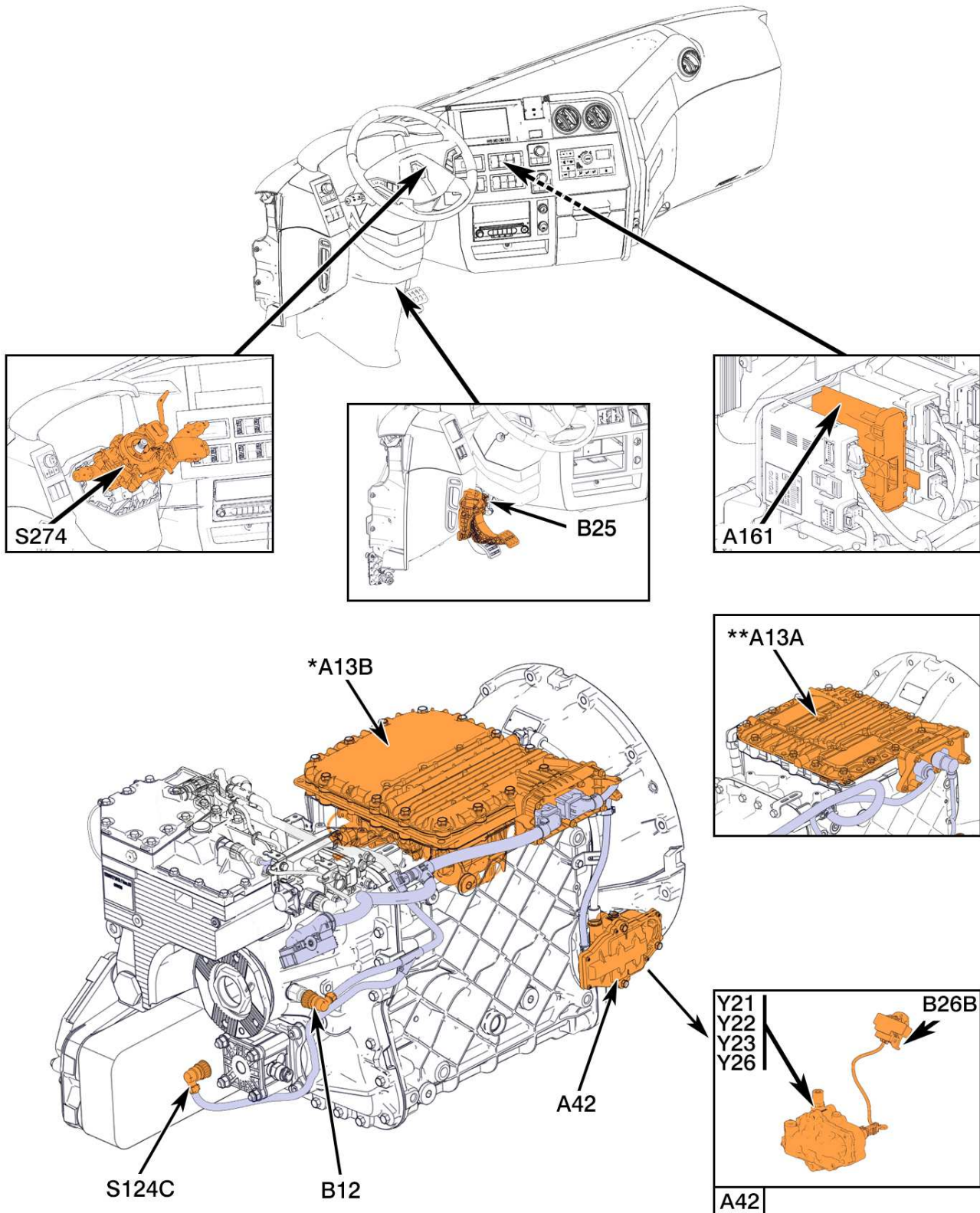
T3099772

Gearbox management – Manual gearbox

Key to devices

Code	Function description	Diagram page No.
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
B09B	Gearbox oil temperature sensor	CD9
B12	Tachograph vehicle speed sensor	CB1
B25	Accelerator pedal position sensor	CA3
B26	Clutch pedal position sensor	CA3
S47	Position sensor - low speed range engaged	CD9
S49	Position sensor - reverse gear engaged	CD9
S58B	Clutch pedal position sensor	CA3
S63	Position sensor - low speed range engaged	CD9
S101	Position sensor - gear selector in neutral	CD9
Y06	Range change locking solenoid valve	CD9
Y31	First gear locking solenoid valve	CD9

Gearbox management – Automated Manual Transmission



T3101452

Gearbox management – Automated Manual Transmission

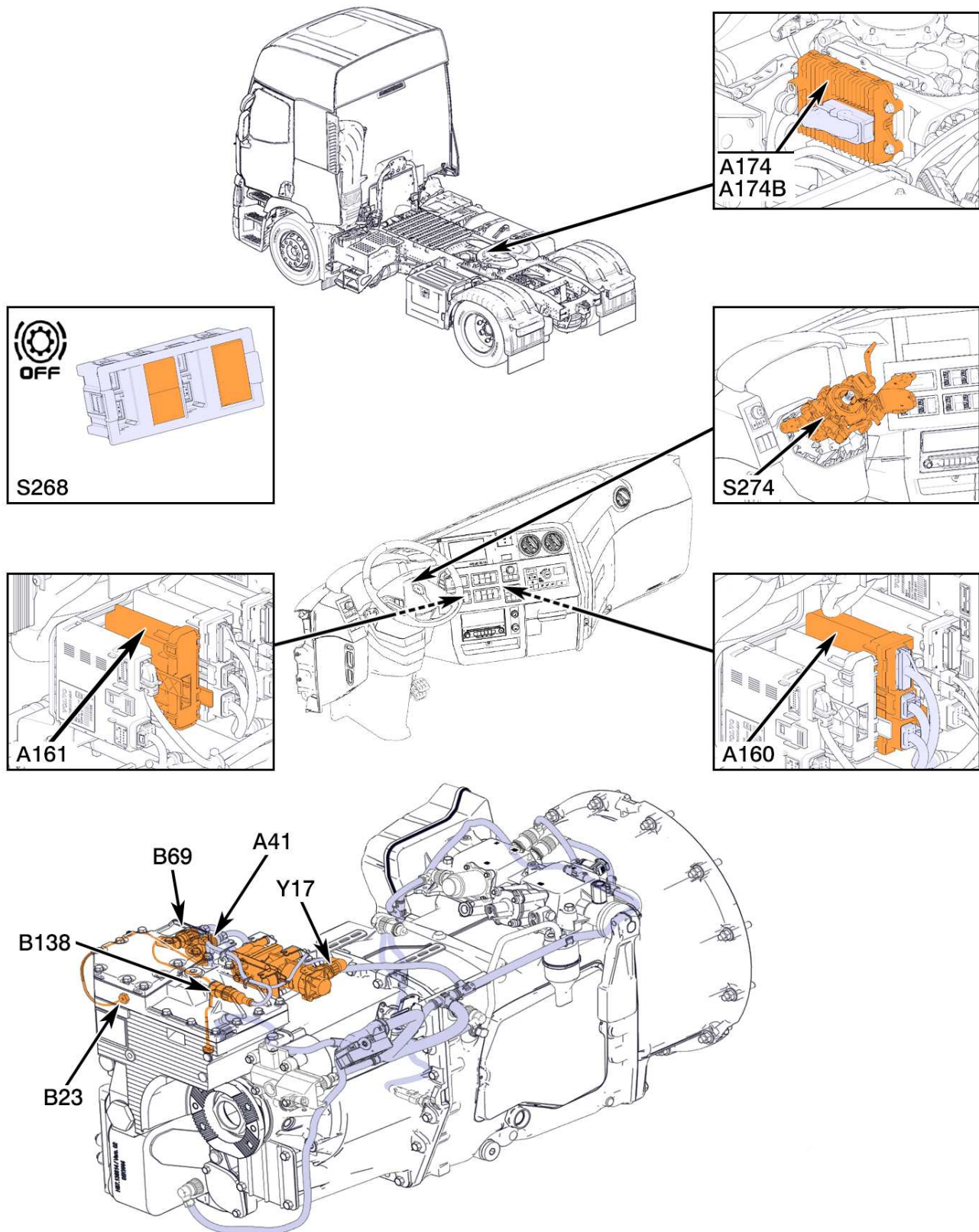
Key to devices

Code	Function description	Diagram page No.
A13A	Automated manual transmission management control unit	CD5
A13B	Automated manual transmission management control unit	CD5
A42	Clutch control apparatus assembly	CD5
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
B12	Tachograph vehicle speed sensor	CB1
B25	Accelerator pedal position sensor	CA3
B26B	Clutch position sensor (on gearbox)	CD5
S274	Steering column-mounted controls	GF2
Y21	Low speed disengagement solenoid valve	CD5
Y22	High speed disengagement solenoid valve	CD5
Y23	High speed engagement solenoid valve	CD5
Y26	Low speed engagement solenoid valve	CD5

* : vehicles compliant with **Euro VI** standards

** : vehicles compliant with **Euro V** standards

Retarder on mechanical gearbox



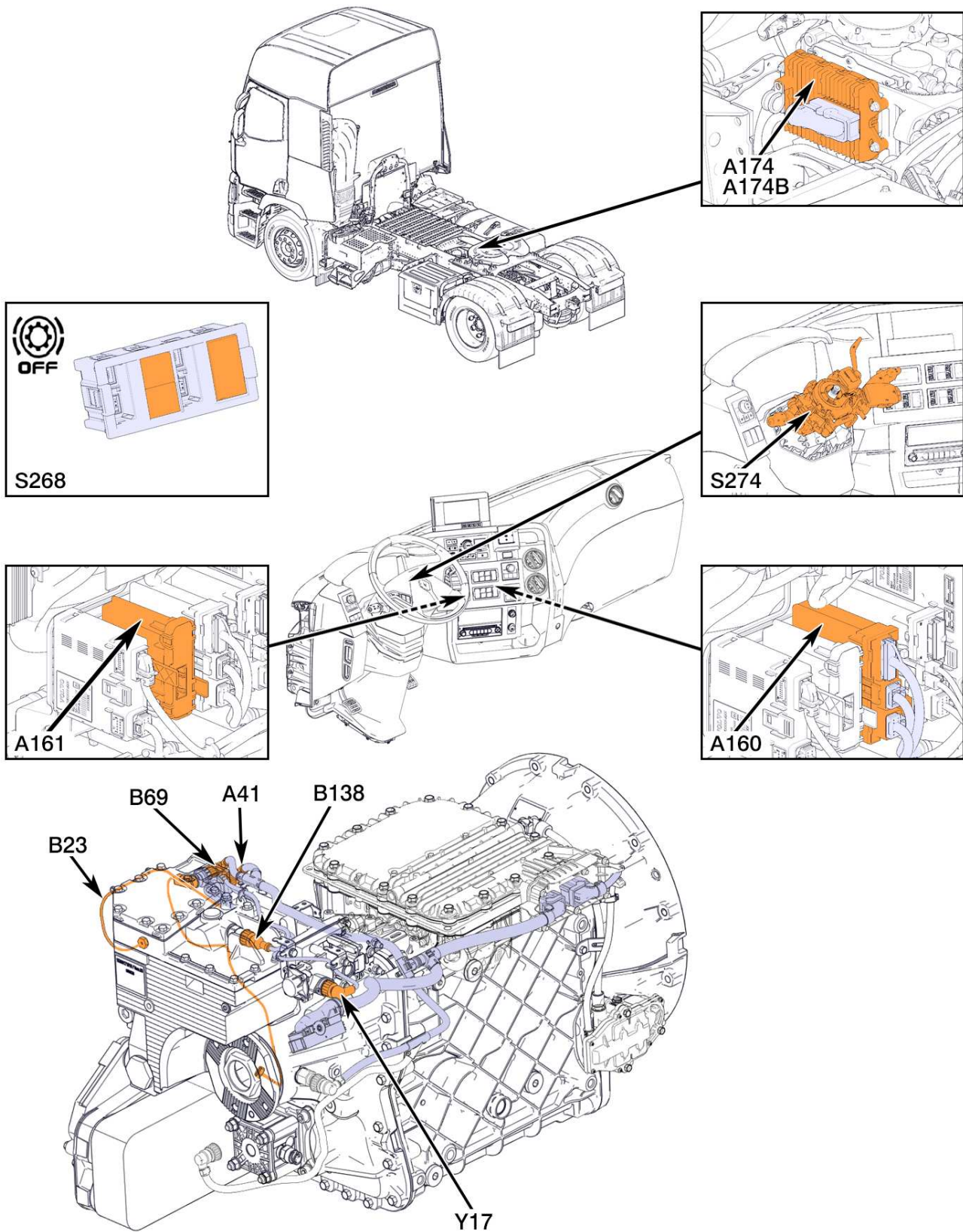
T3098823

Retarder on mechanical gearbox

Key to devices

Code	Function description	Diagram page No.
A41	Retarder equipment unit	CEK
A160	Cab information management control unit (CIOM)	DA6/EFB/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
B23	Retarder oil temperature sensor	CEK
B69	Retarder coolant temperature sensor	CEK
B138	Retarder oil pressure sensor	CEK
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
Y17	Retarder control solenoid valve	CEK

Retarder on automated manual transmission



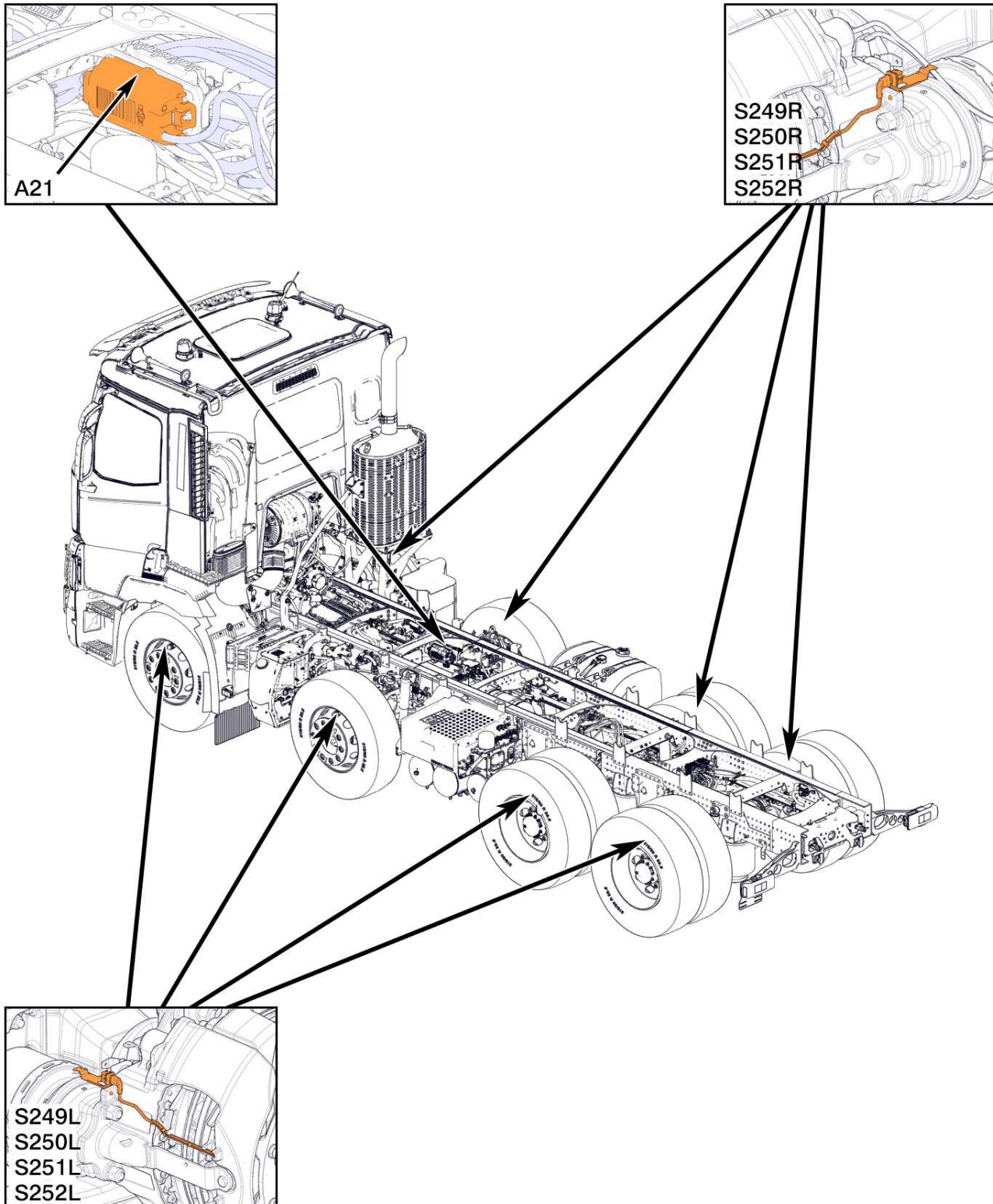
T3098708

Retarder on automated manual transmission

Key to devices

Code	Function description	Diagram page No.
A41	Retarder equipment unit	CEK
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A174	Exhaust gas after-treatment control module (ACM)	C2E/C2F
A174B	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
B23	Retarder oil temperature sensor	CEK
B69	Retarder coolant temperature sensor	CEK
B138	Retarder oil pressure sensor	CEK
S268	Repositionable control unit (group 3)	GF1
S274	Steering column-mounted controls	GF2
Y17	Retarder control solenoid valve	CEK

Braking management - Brake pad wear sensor



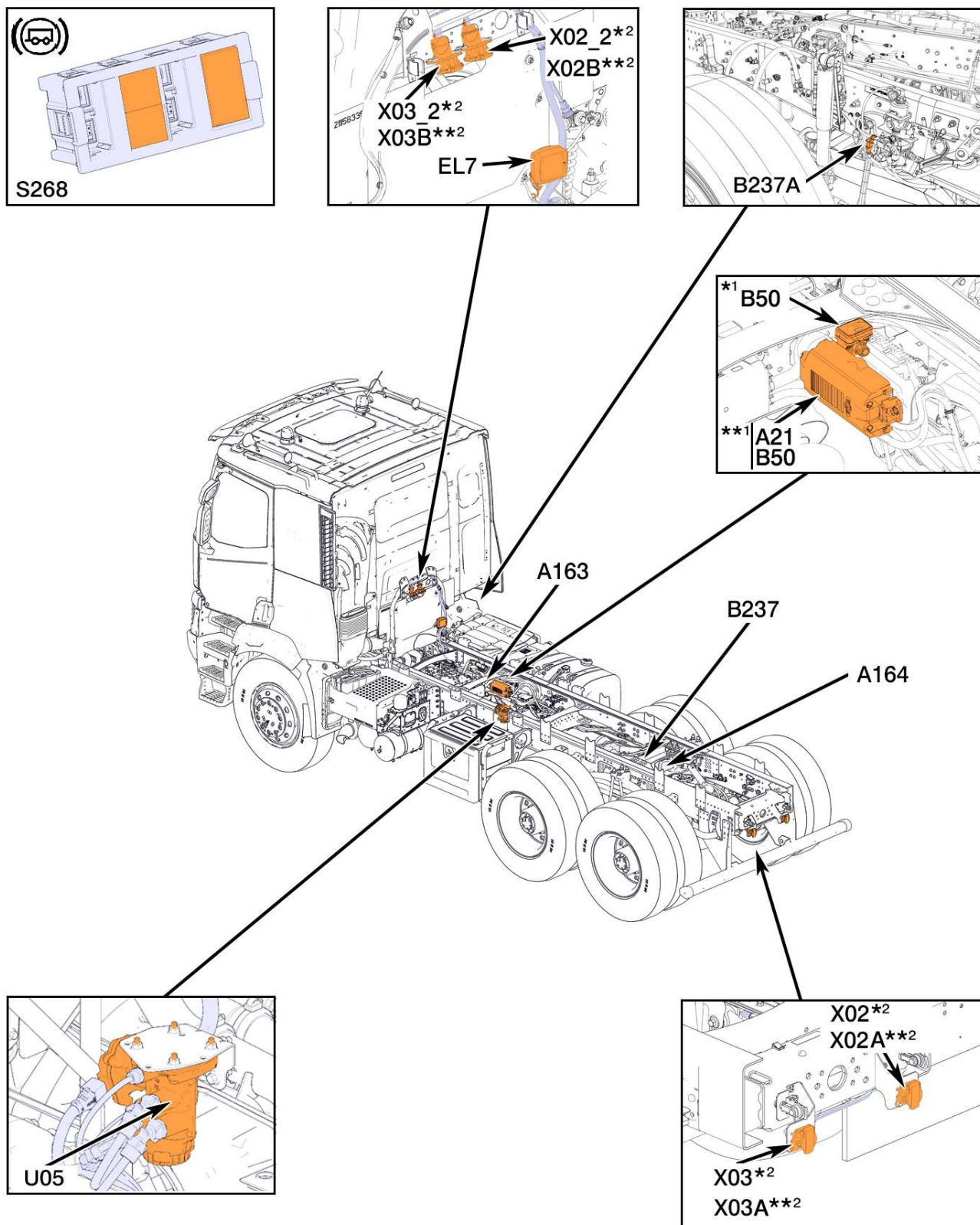
T3099773

Braking management - Brake pad wear sensor

Key to devices

Code	Function description	Diagram page No.
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/HBE/HBF
S249L	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	CFR
S249R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 1)	CFR
S250L	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFR
S250R	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFR
S251L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	CFR
S251R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 1)	CFR
S252L	Left-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	CFR
S252R	Right-hand rear wheel brake lining wear sensor (rear axle or drive axle no. 2)	CFR

Braking management - EBS equipment for rigid



T3125651

Braking management - EBS equipment for rigid

Key to devices

Code	Function description	Diagram page No.
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/HBE/HBF
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/CG1/CKD/HBD/HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/EAA/EBH/HBD/HBE/HBF
B50	Chassis lateral acceleration sensor	CF3
B237	Service brake pressure sensor	CF3
B237A	Service brake pressure sensor	CF3
EL7	Trailer hitch area spotlight	JAE
S268	Repositionable control unit (group 3)	GF1
U05	Trailer braking assistance modulator (EBS)	CFS
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF

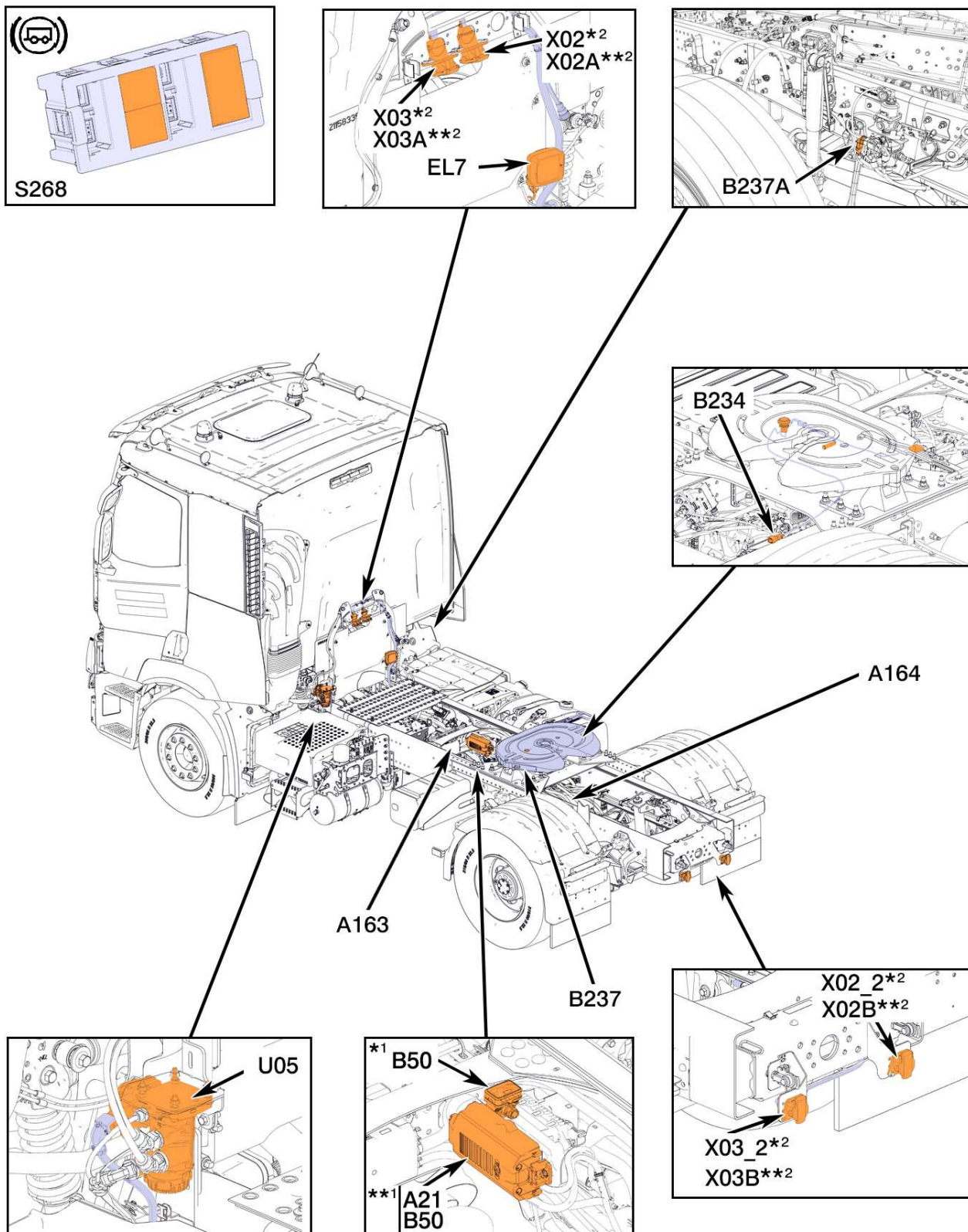
***1** : for vehicles manufactured before **30/11/2014**

****1** : for vehicles manufactured after **01/12/2014**

***2** : for vehicles manufactured before **2017/03/12**

****2** : for vehicles manufactured after **2017/03/12**

Braking management - EBS equipment for tractor



T3125652

Braking management - EBS equipment for tractor

Key to devices

Code	Function description	Diagram page No.
A21	Electronic braking system control unit (EBS)	CF3/CFR/CFS/HBD/HBE/HBF
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/CG1/CKD/HBD/HBE/HBF/JAE
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/EAA/EBH/HBD/HBE/HBF
B50	Chassis lateral acceleration sensor	CF3
B234	Fifth wheel position sensor assembly	JAE
B237	Service brake pressure sensor	CF3
B237A	Service brake pressure sensor	CF3
EL7	Trailer hitch area spotlight	JAE
S268	Repositionable control unit (group 3)	GF1
U05	Trailer braking assistance modulator (EBS)	CFS
X02	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02A	7-pin ABS/EBS trailer socket	HBD/HBE/HBF
X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
X02B	7-pin ABS/EBS trailer socket, dual use	HBF
X03	15-pin trailer socket	HBD/HBE/HBF
X03A	15-pin trailer socket	HBD/HBE/HBF
X03_2	15-pin trailer socket, dual use	HBF
X03B	15-pin trailer socket, dual use	HBF

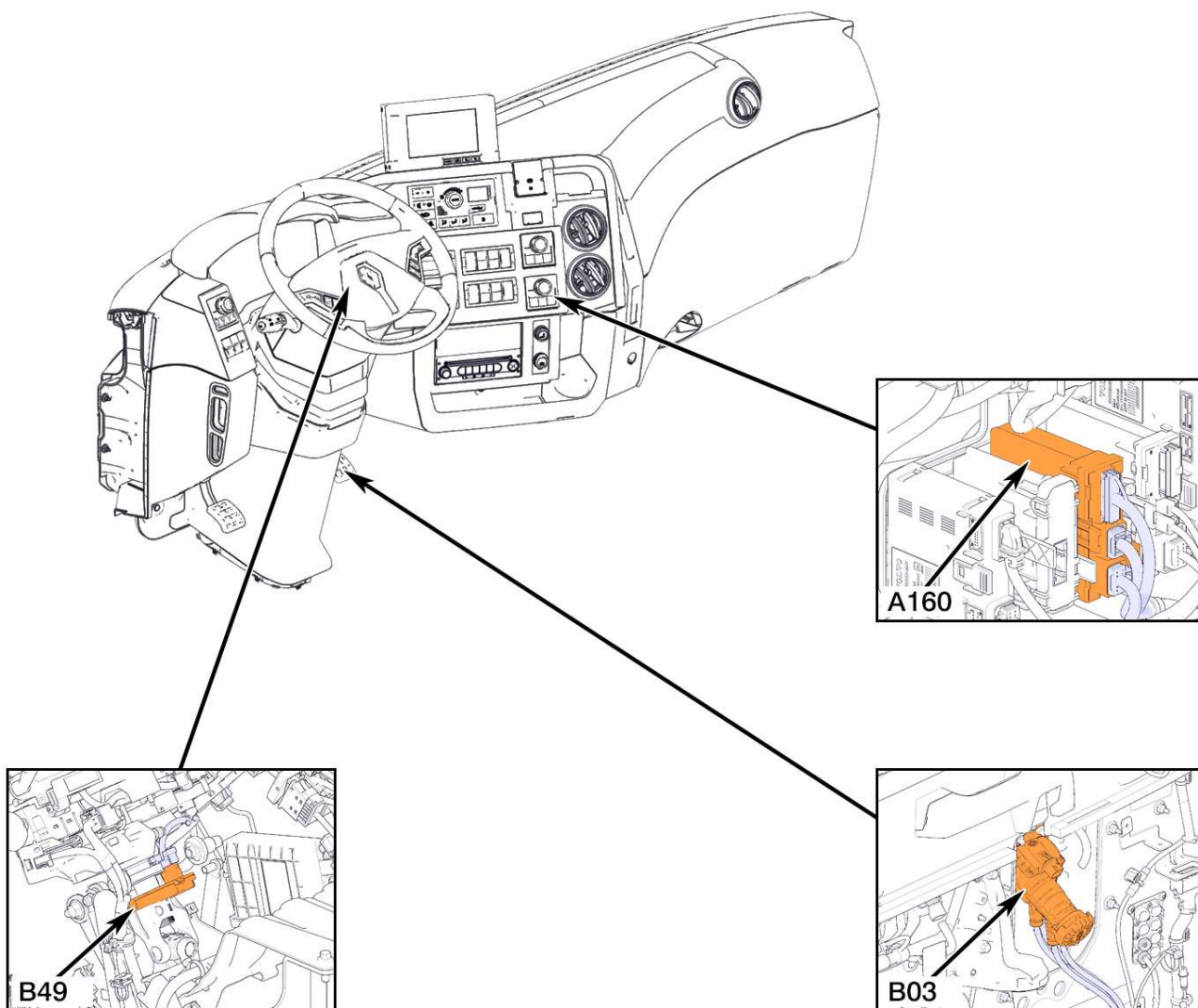
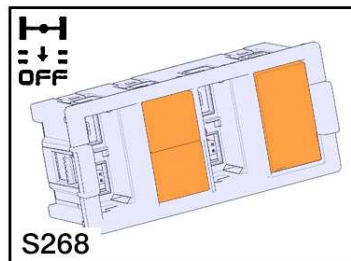
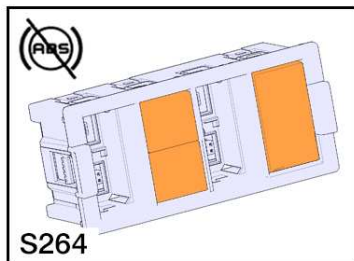
***1** : for vehicles manufactured before **30/11/2014**

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***2** : for vehicles manufactured before **2017/03/12**

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Braking management - EBS equipment



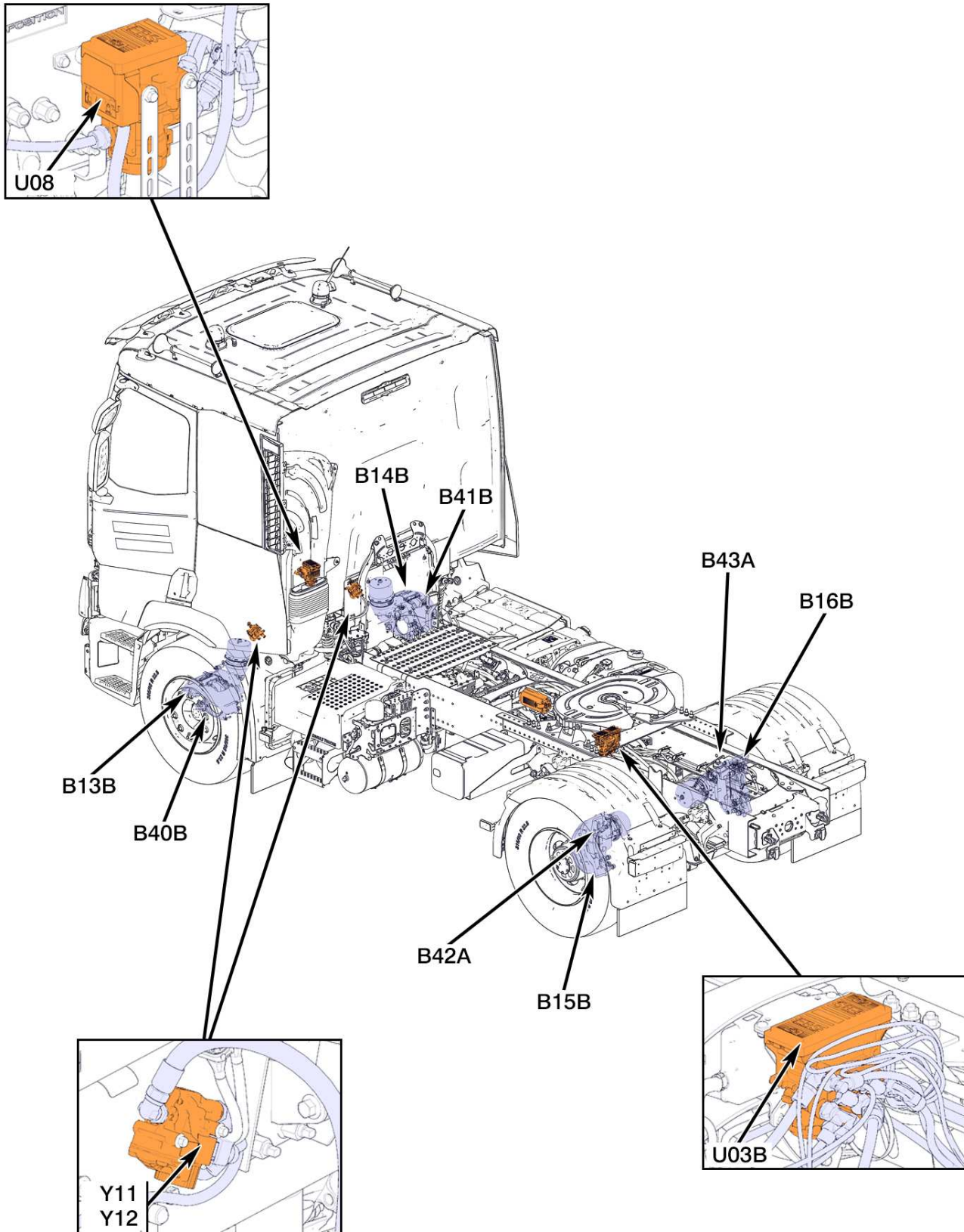
T3098711

Braking management - EBS equipment

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
B03	Brake pedal position sensor	CF3
B49	Steering lockover angle sensor	CF3
S264	Repositionable control unit (group 1)	GF1
S268	Repositionable control unit (group 3)	GF1

Braking management - EBS equipment 4x2



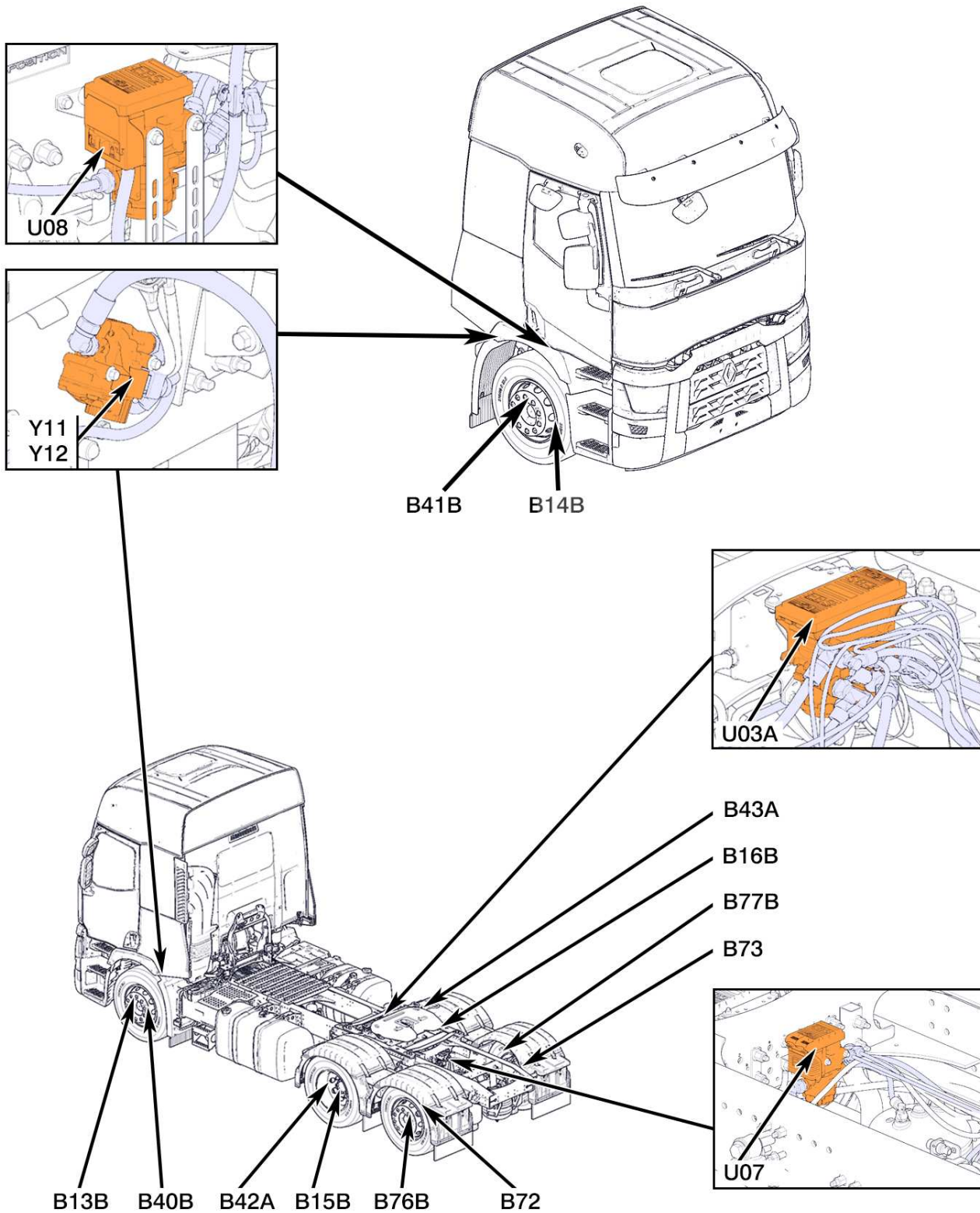
T3099780

Braking management - EBS equipment 4x2

Key to devices

Code	Function description	Diagram page No.
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Right-hand rear wheel speed sensor	CFN
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B42A	Left-hand rear wheel brake lining wear sensor	CFN
B43A	Right-hand rear wheel brake lining wear sensor	CFN
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	CFN
U08	Braking assistance modulator (front axle) (EBS)	CFK
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3

Braking management - EBS equipment 6x2 - TAG



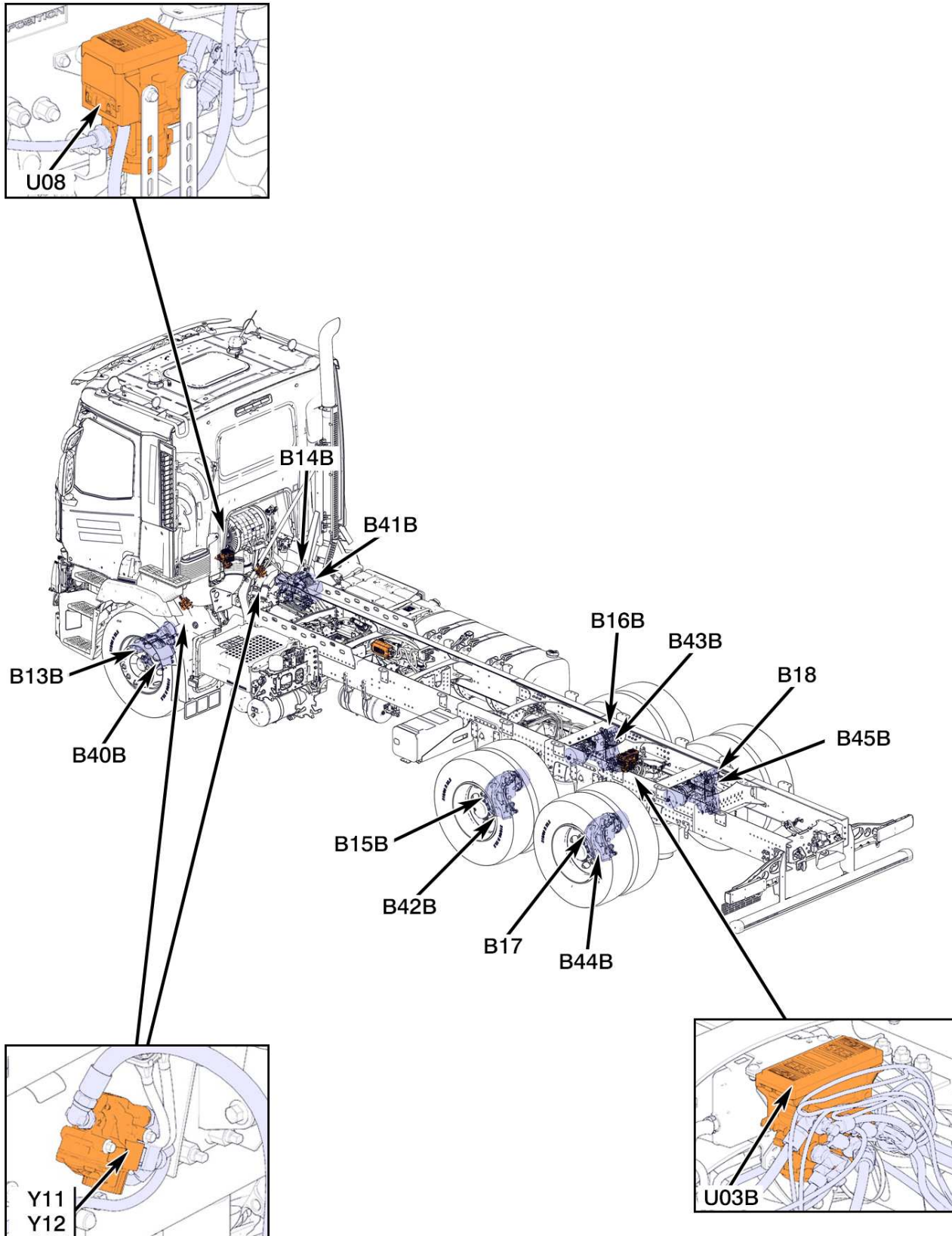
T3099781

Braking management - EBS equipment 6x2 - TAG

Key to devices

Code	Function description	Diagram page No.
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Right-hand rear wheel speed sensor	CFN
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B42A	Left-hand rear wheel brake lining wear sensor	CFN
B43A	Right-hand rear wheel brake lining wear sensor	CFN
B72	Left-hand rear wheel speed sensor (TAG rear axle)	CFN
B73	Right-hand rear wheel speed sensor (TAG rear axle)	CFN
B76B	Left-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
B77B	Right-hand rear wheel brake lining wear sensor (TAG rear axle)	CFN
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	CFN
U07	Braking assistance modulator (TAG second rear axle) (EBS)	CFN
U08	Braking assistance modulator (front axle) (EBS)	CFK
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3

Braking management - 6x2 - 6x4 EBS equipment



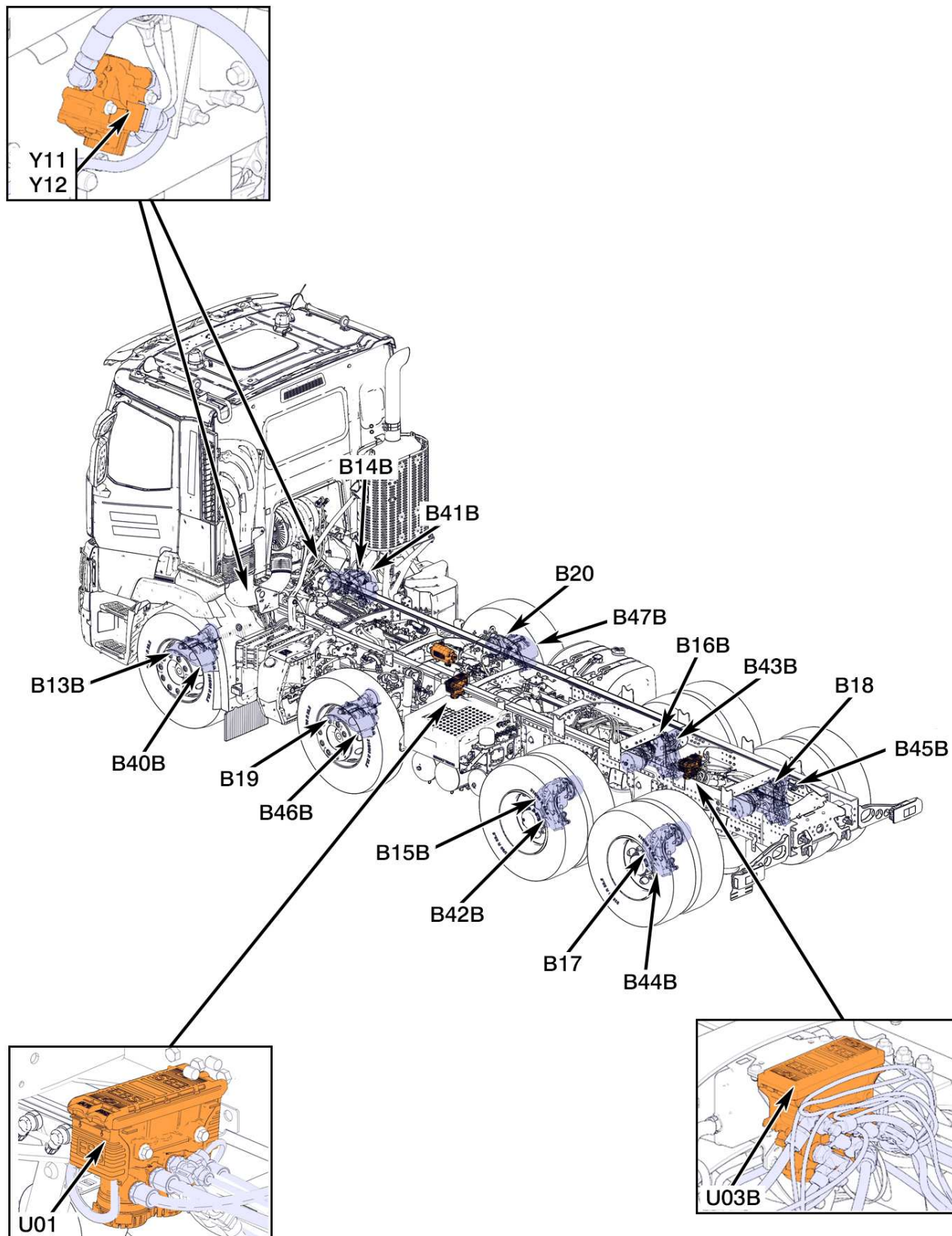
T3099782

Braking management - 6x2 - 6x4 EBS equipment

Key to devices

Code	Function description	Diagram page No.
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Right-hand rear wheel speed sensor	CFN
B17	Left-hand rear wheel speed sensor (rear axle)	CFN
B18	Right-hand rear wheel speed sensor (rear axle)	CFN
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B42B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B43B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B44B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B45B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	CFN
U08	Braking assistance modulator (front axle) (EBS)	CFK
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3

Braking management - 8x4 - 8x6 EBS equipment



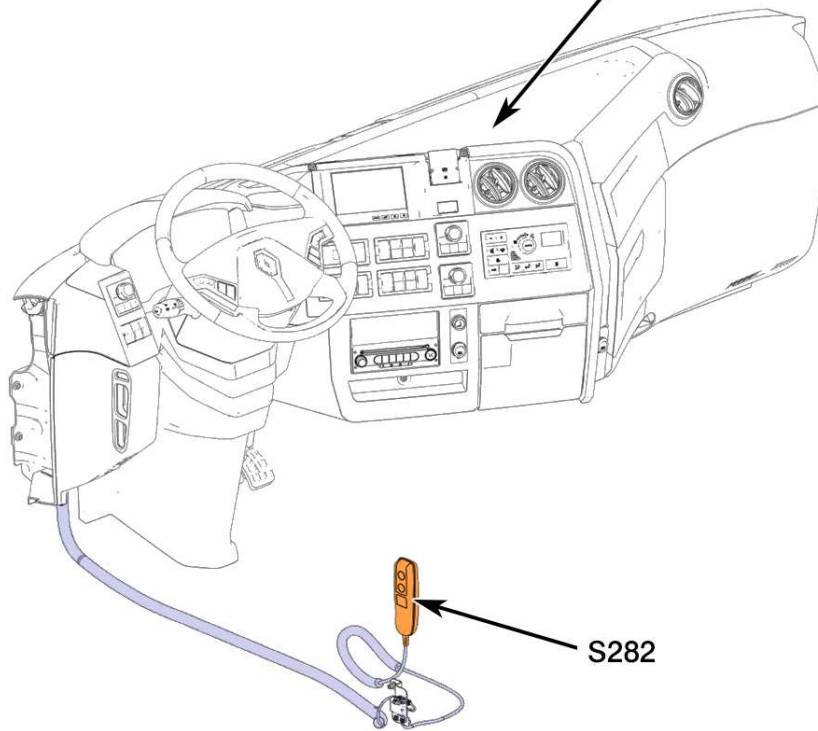
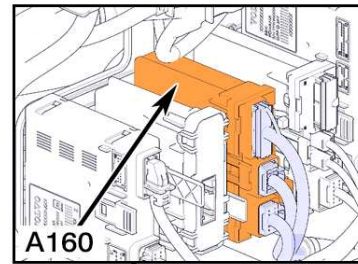
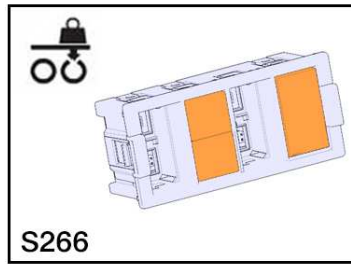
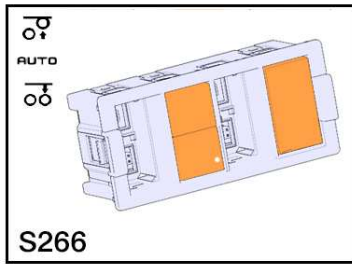
T3099783

Braking management - 8x4 - 8x6 EBS equipment

Key to devices

Code	Function description	Diagram page No.
B13B	Left-hand front wheel speed sensor	CFK
B14B	Right-hand front wheel speed sensor	CFK
B15B	Left-hand rear wheel speed sensor	CFN
B16B	Right-hand rear wheel speed sensor	CFN
B17	Left-hand rear wheel speed sensor (rear axle)	CFN
B18	Right-hand rear wheel speed sensor (rear axle)	CFN
B19	Left-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B20	Right-hand front wheel speed sensor (drive axle or front axle no. 2)	CFK
B40B	Left-hand front wheel brake lining wear sensor	CFK
B41B	Right-hand front wheel brake lining wear sensor	CFK
B42B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B43B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 1)	CFN
B44B	Left-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B45B	Right-hand rear wheel brake lining wear sensor (rear drive axle no. 2)	CFN
B46B	Left-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
B47B	Right-hand front wheel brake lining wear sensor (front axle or drive axle no. 2)	CFK
U01	Braking assistance modulator (front axle)	CFK
U03B	Braking assistance modulator (drive axle no. 2) (EBS)	CFN
Y11	Left-hand front wheel ABS solenoid valve	CF3
Y12	Right-hand front wheel ABS solenoid valve	CF3

Suspension management – Air suspension



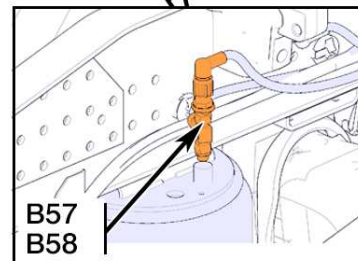
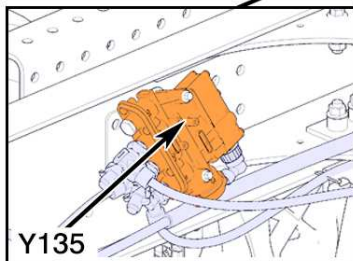
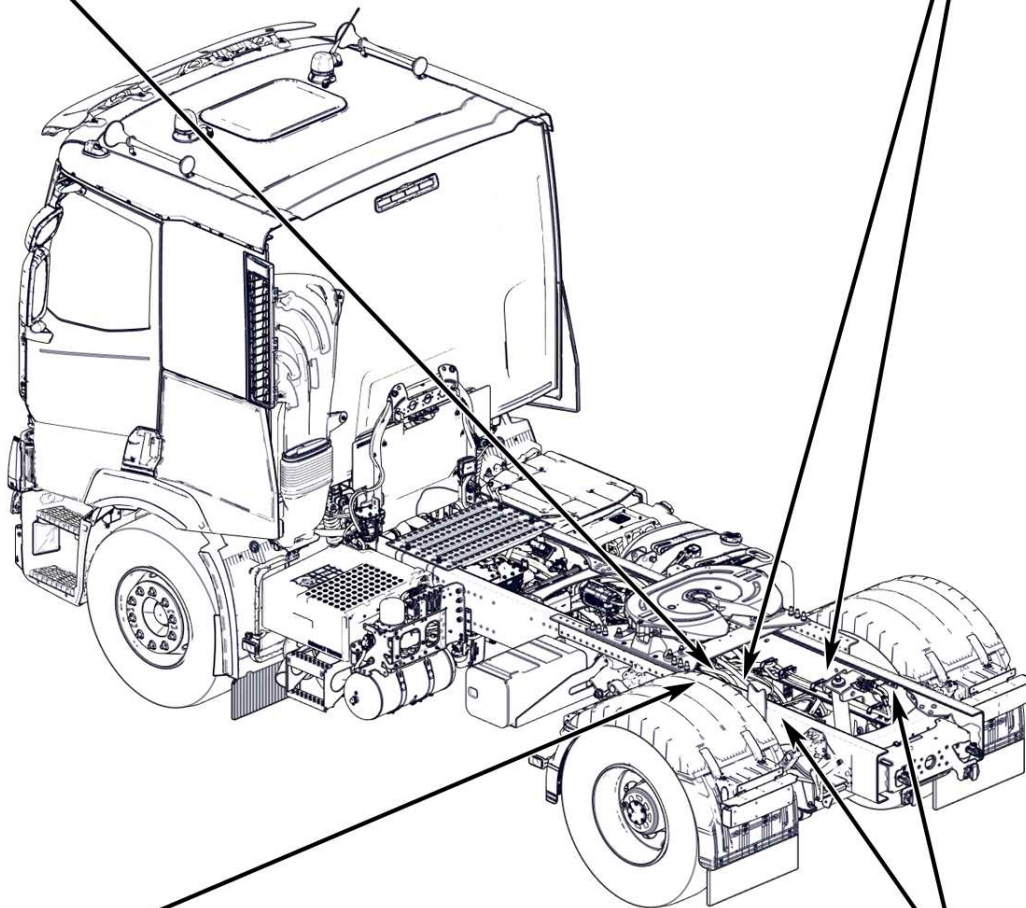
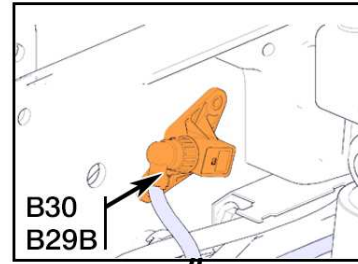
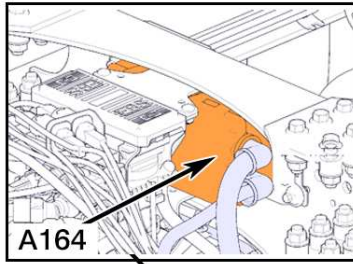
T3098826

Suspension management – Air suspension

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
S266	Repositionable control unit (group 2)	GF1
S282	Air suspension controls assembly	GF1

Suspension management – 4x2 air suspension



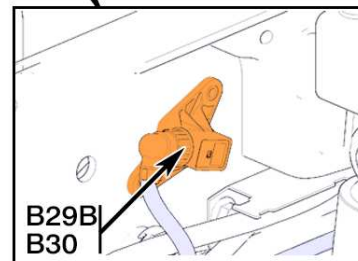
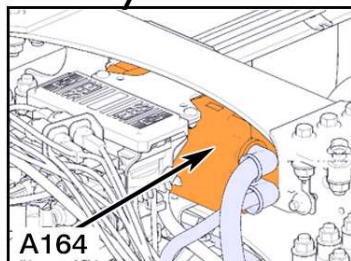
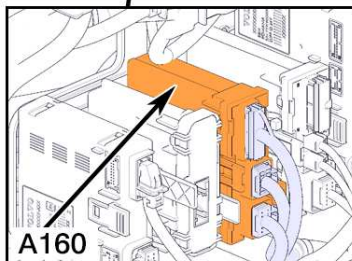
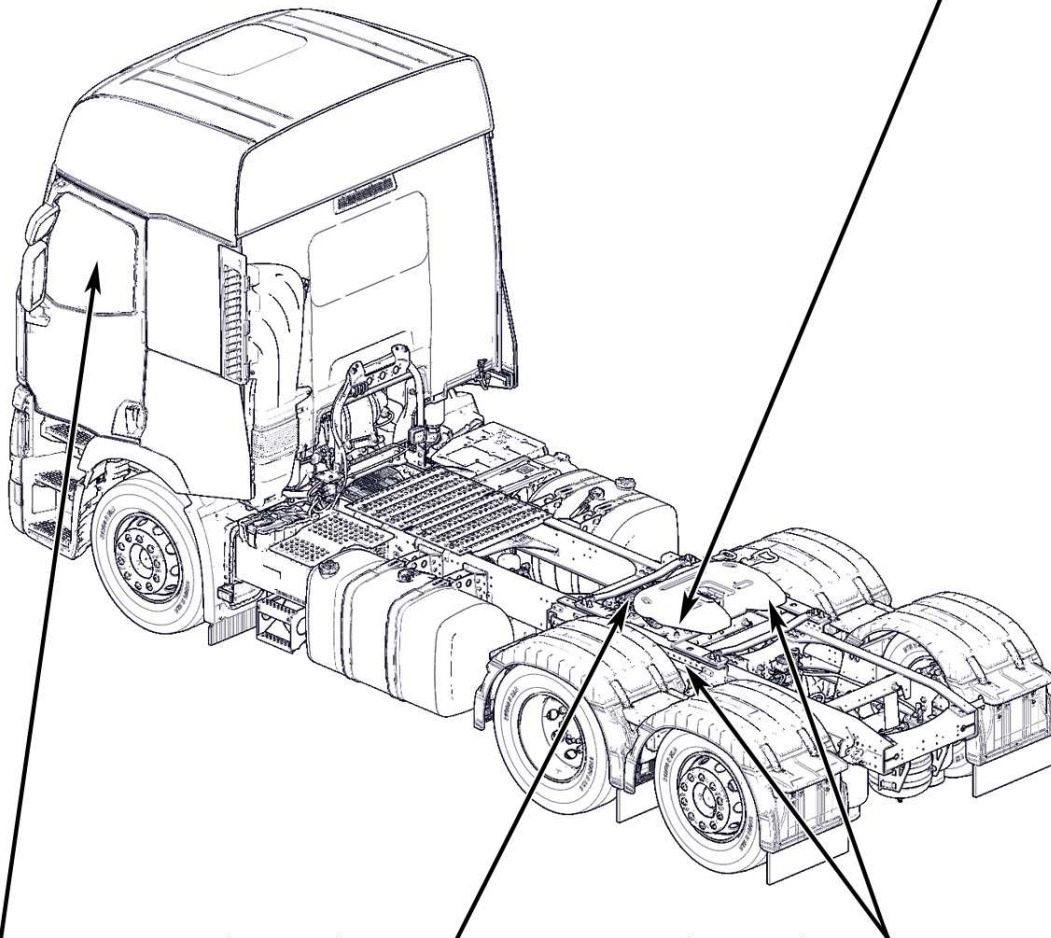
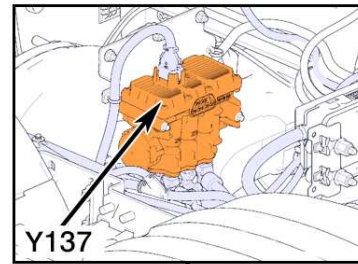
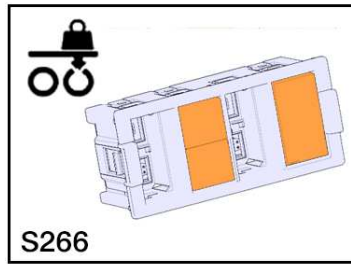
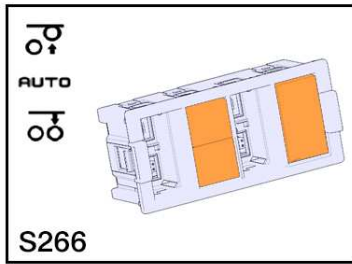
T3098715

Suspension management – 4x2 air suspension

Key to devices

Code	Function description	Diagram page No.
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CK1/EAA/ EBH/HBD/HBE/HBF
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
B57	Sensor for air pressure in left-hand suspension air spring (rear drive axle no. 1)	CGA
B58	Sensor for air pressure in right-hand suspension air spring (rear drive axle no. 1)	CGA
Y135	Rear axle suspension control solenoid valve assembly	CGA

Suspension management – 6x2 Air suspension - TAG



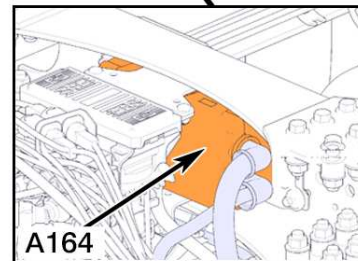
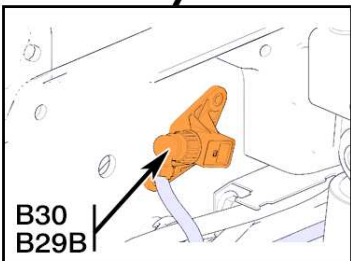
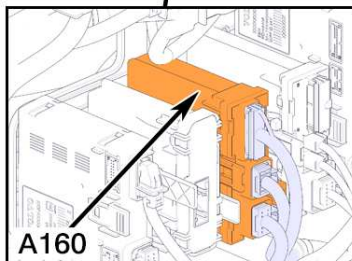
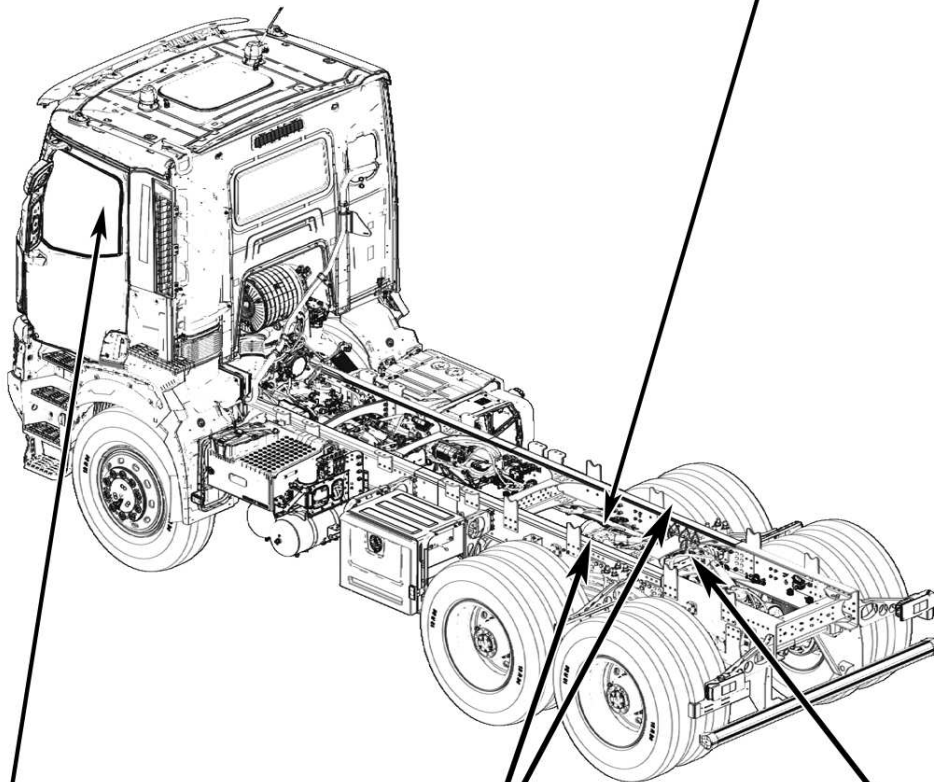
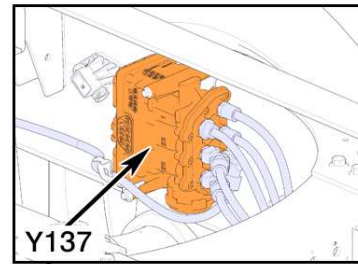
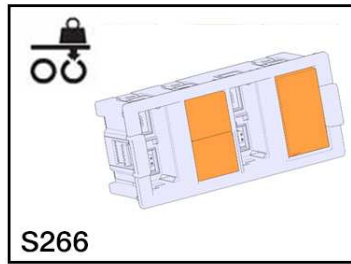
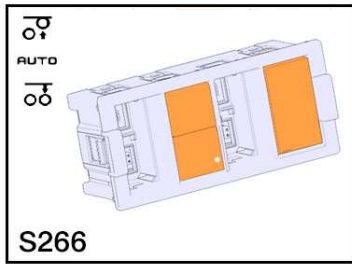
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Suspension management – 6x2 Air suspension - TAG

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
S266	Repositionable control unit (group 2)	GF1
Y137	Rear axle suspension control solenoid valve assembly	CGM

Suspension management – 6x2 - 6x4 air suspension



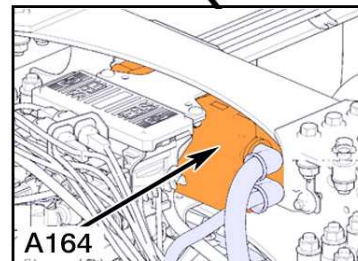
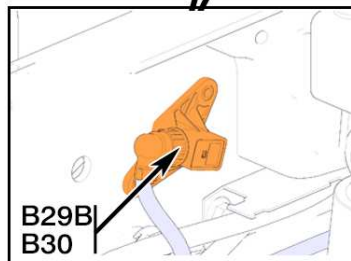
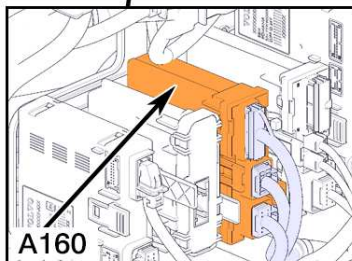
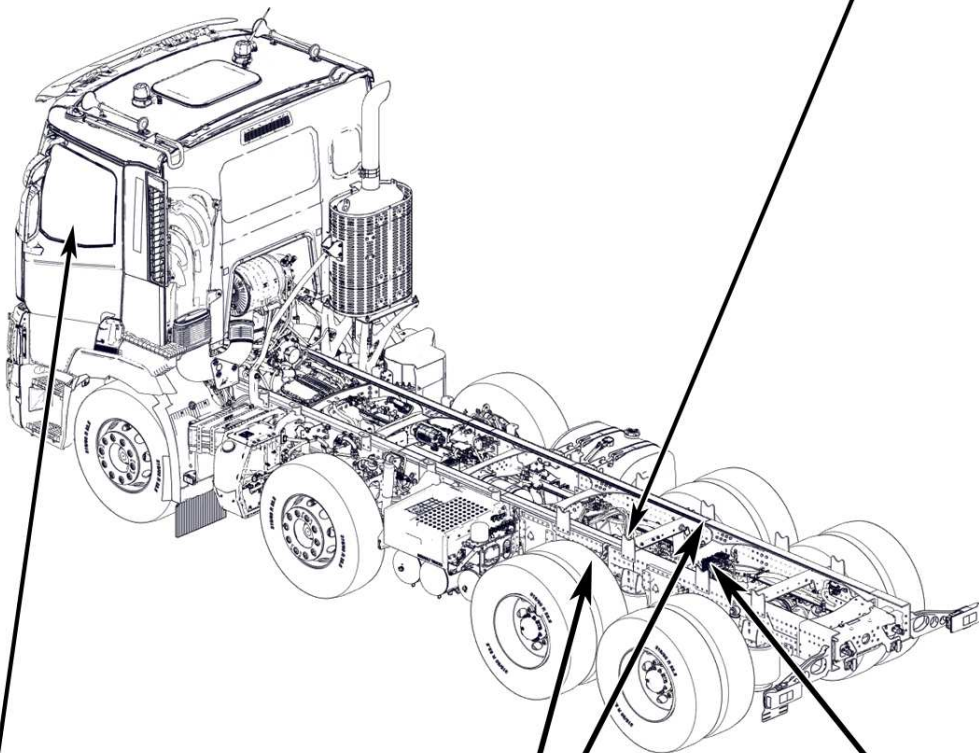
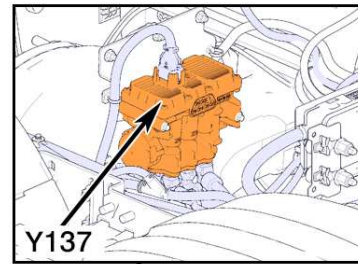
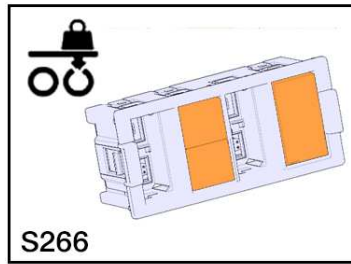
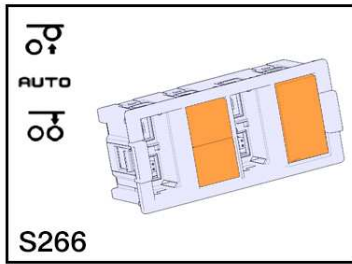
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Suspension management – 6x2 - 6x4 air suspension

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
S266	Repositionable control unit (group 2)	GF1
Y137	Rear axle suspension control solenoid valve assembly	CGM

Suspension management – 8x4 air suspension



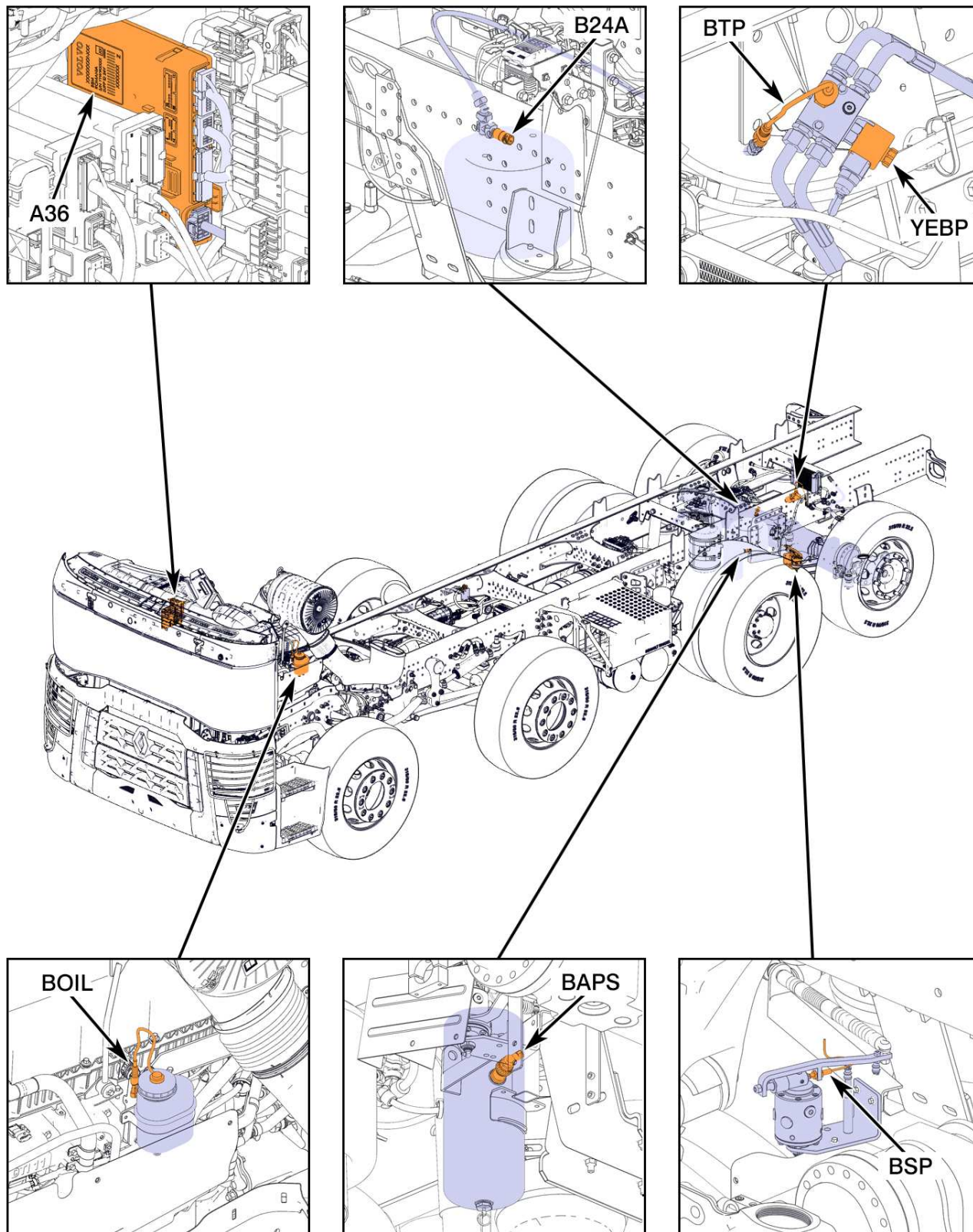
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Suspension management – 8x4 air suspension

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
B29B	Rear drive axle suspension left-hand position sensor	CGA/CGM/CK1
B30	Rear drive axle suspension right-hand position sensor	CGA/CGM
S266	Repositionable control unit (group 2)	GF1
Y137	Rear axle suspension control solenoid valve assembly	CGM

8x2/6 controlled axle management



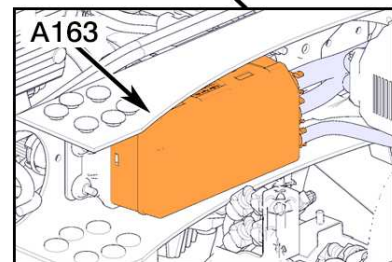
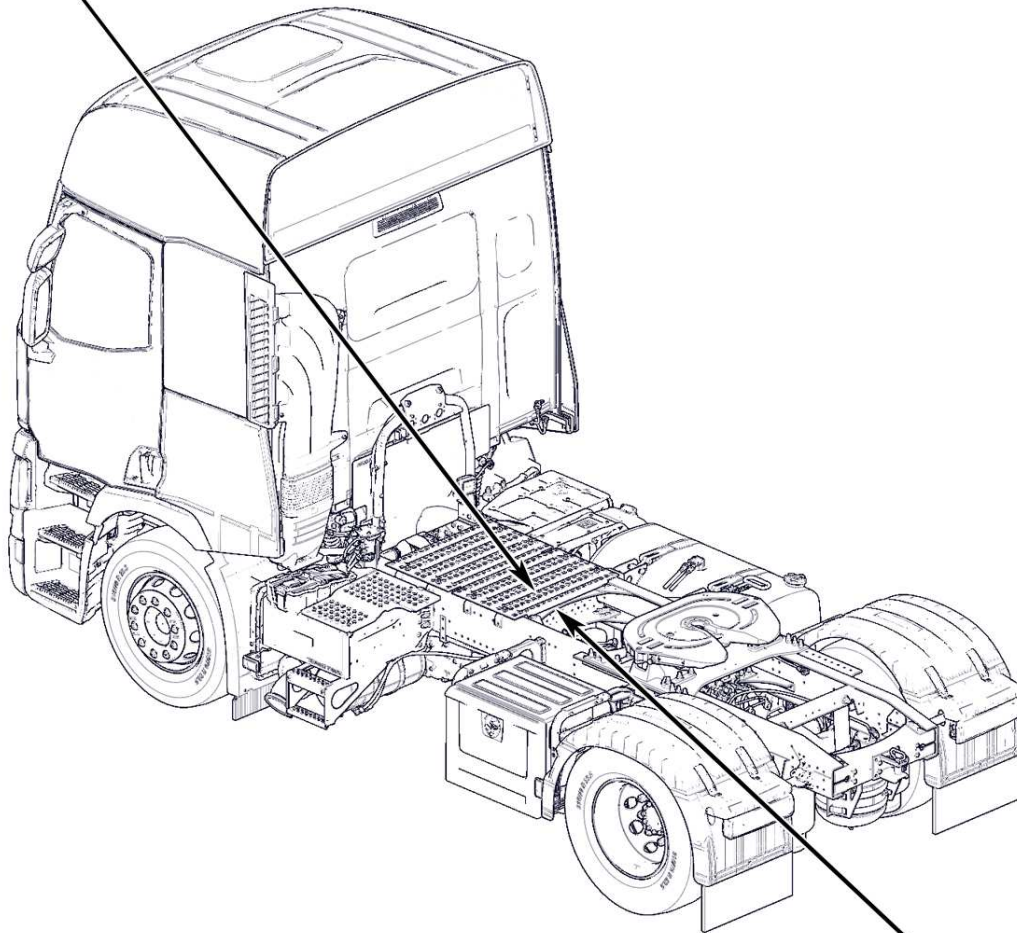
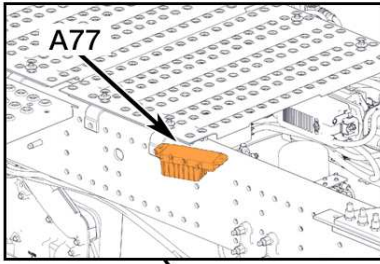
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8x2/6 controlled axle management

Key to devices

Code	Function description	Diagram page No.
A36	Body builder pre-equipment management control unit (BBM)	CKC
B24A	Lift-up axle air spring air pressure sensor	CKC
BAPS	Lift-up air spring reservoir pressure sensor	CKC
BOIL	Controlled axle oil reservoir level sensor	CKC
BSP	Controlled axle in neutral position sensor	CKC
BTP	Controlled axle oil temperature sensor	CKC
YEBP	Controlled axle oil bypass solenoid valve	CKC

Tyre management – Tyre pressure monitoring



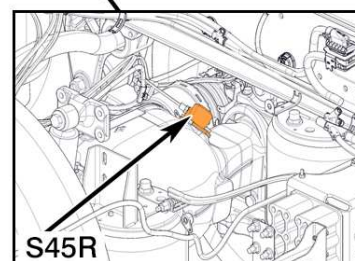
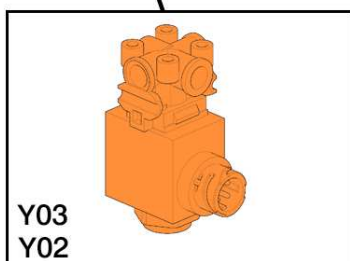
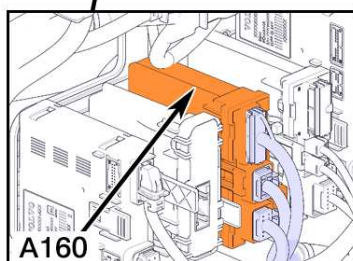
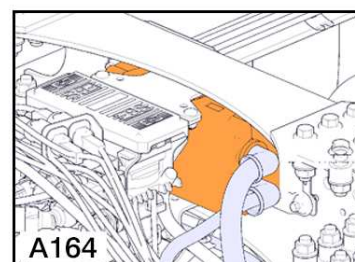
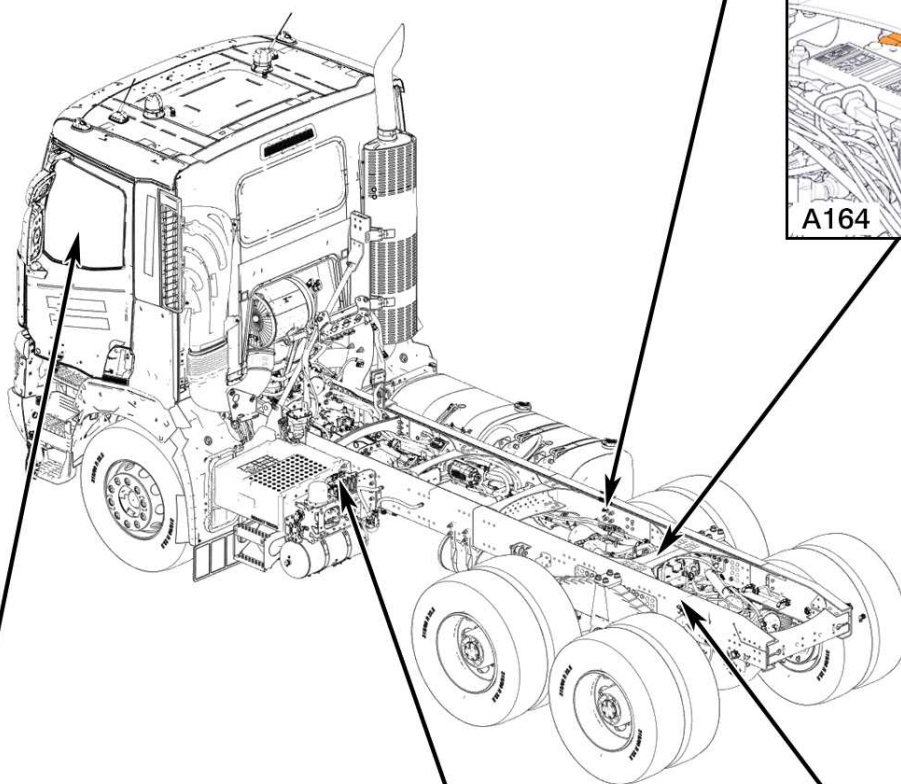
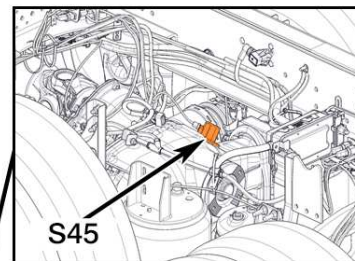
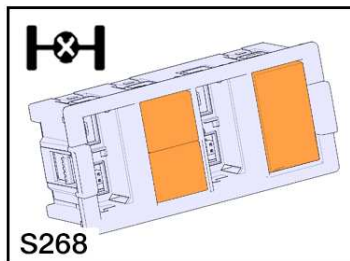
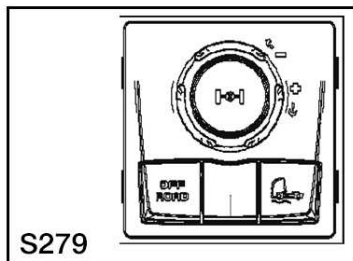
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Tyre management – Tyre pressure monitoring

Key to devices

Code	Function description	Diagram page No.
A77	Tyre pressure monitoring control unit	CG1
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE

Differential lock on rigid



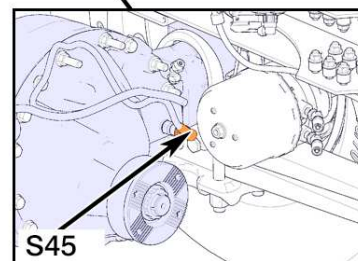
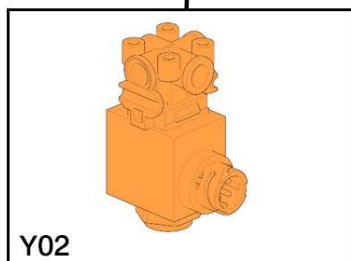
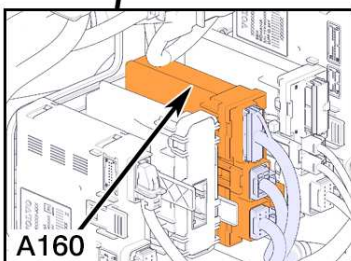
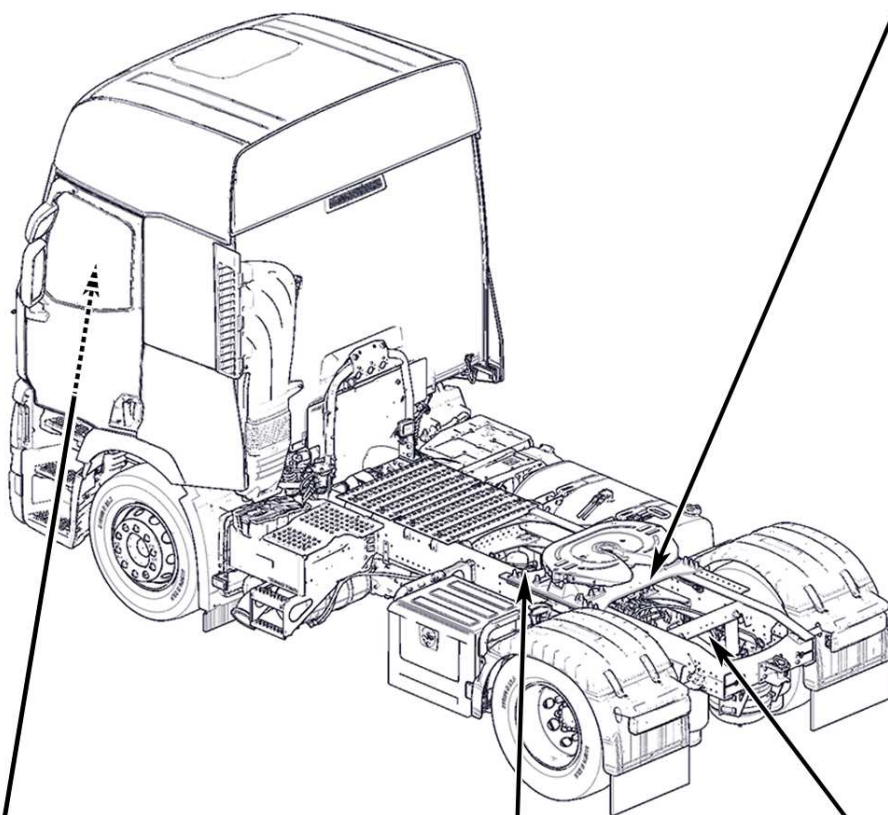
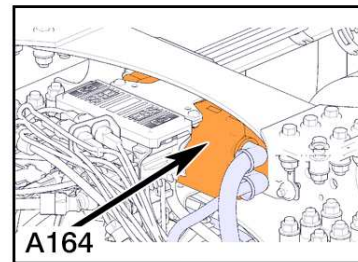
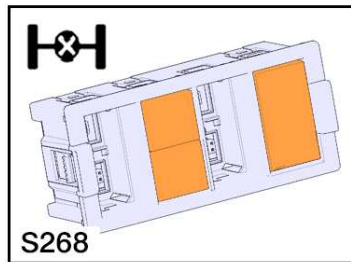
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Differential lock on rigid

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
S45	Position sensor - rear inter-wheel differential lock engaged	CDU
S45R	Position sensor - rear inter-wheel differential lock engaged (rear drive axle no. 2)	CDU
S268	Repositionable control unit (group 3)	GF1
S279	Differential lock selector control unit	GF1
Y02	Rear inter-wheel differential lock solenoid valve	CDU
Y03	Inter-axle differential lock solenoid valve	CDU

Differential lock on tractor



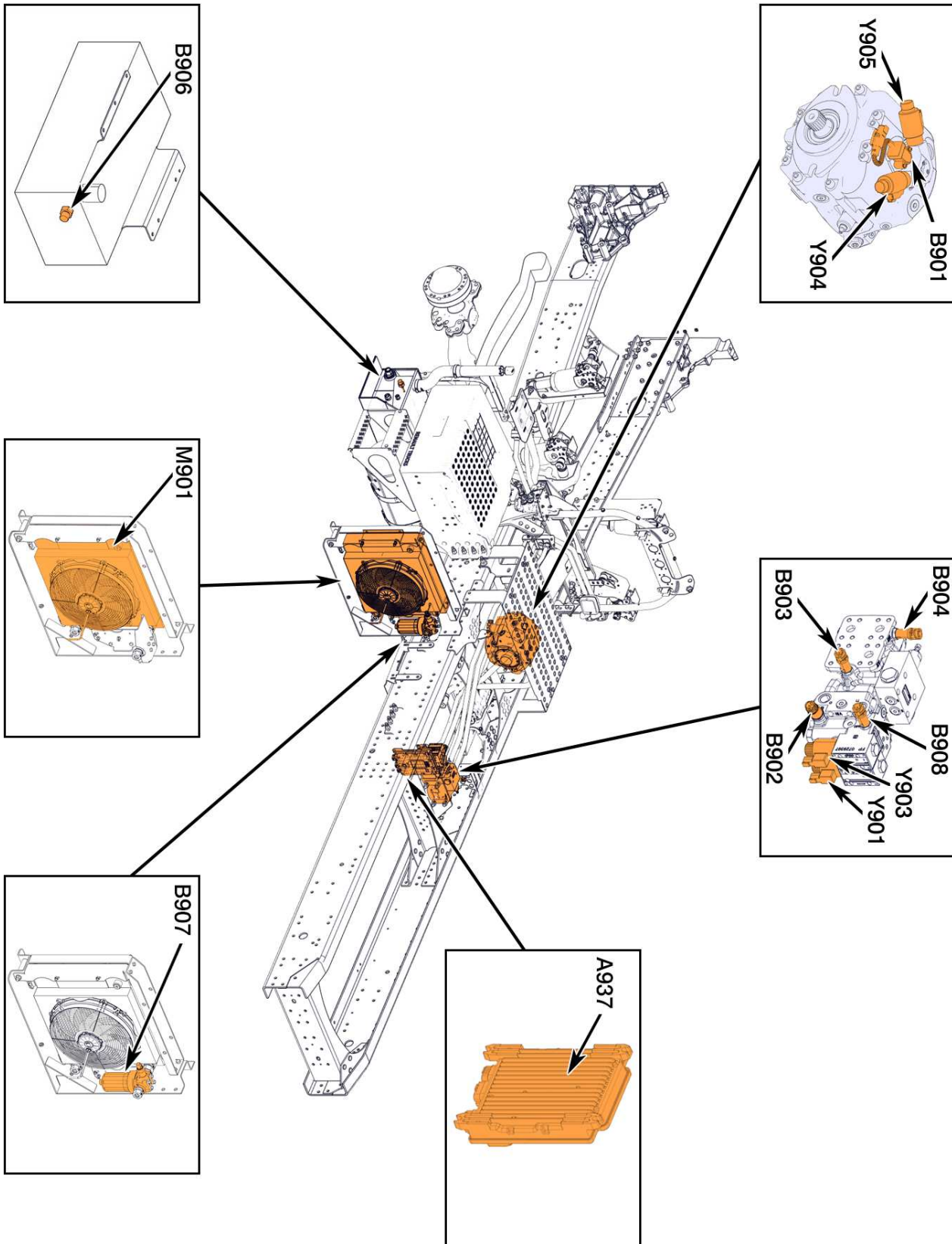
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Differential lock on tractor

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
S45	Position sensor - rear inter-wheel differential lock engaged	CDU
S268	Repositionable control unit (group 3)	GF1
Y02	Rear inter-wheel differential lock solenoid valve	CDU

OptiTrack hydraulic system (1/2)



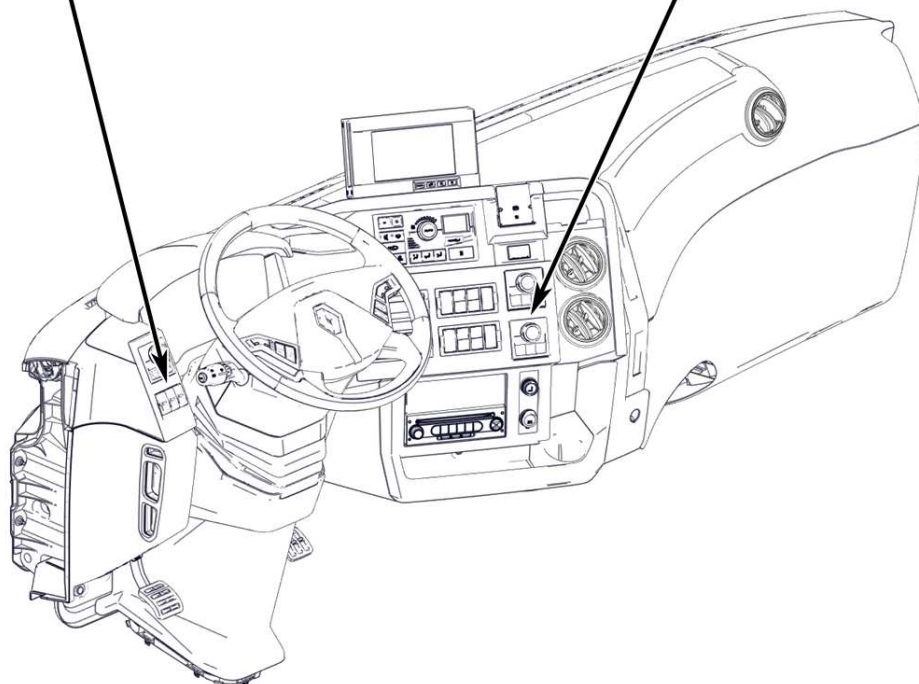
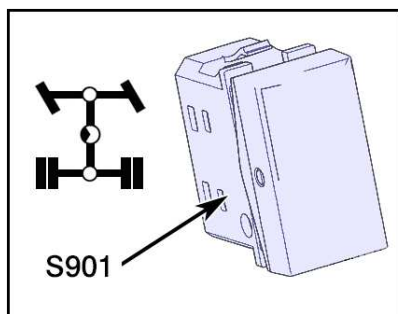
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OptiTrack hydraulic system (1/2)

Key to devices

Code	Function description	Diagram page No.
A937	OptiTrack system management ECU	CDV
B901	Pump return potentiometer	CDV
B902	OptiTrack system oil temperature sensor	CDV
B903	OptiTrack system forward drive pressure sensor	CDV
B904	OptiTrack system reverse drive pressure sensor	CDV
B906	OptiTrack system low oil level sensor	CDV
B907	OptiTrack system oil filter clogging sensor	CDV
B908	OptiTrack system oil boost pressure sensor	CDV
M901	OptiTrack system oil cooling fan	CDV
Y901	Freewheeling control solenoid valve no. 1	CDV
Y903	Freewheeling control solenoid valve no. 2	CDV
Y904	OptiTrack system hydraulic flow management solenoid valve no. 1	CDV
Y905	OptiTrack system hydraulic flow management solenoid valve no. 2	CDV

OptiTrack hydraulic system (2/2)



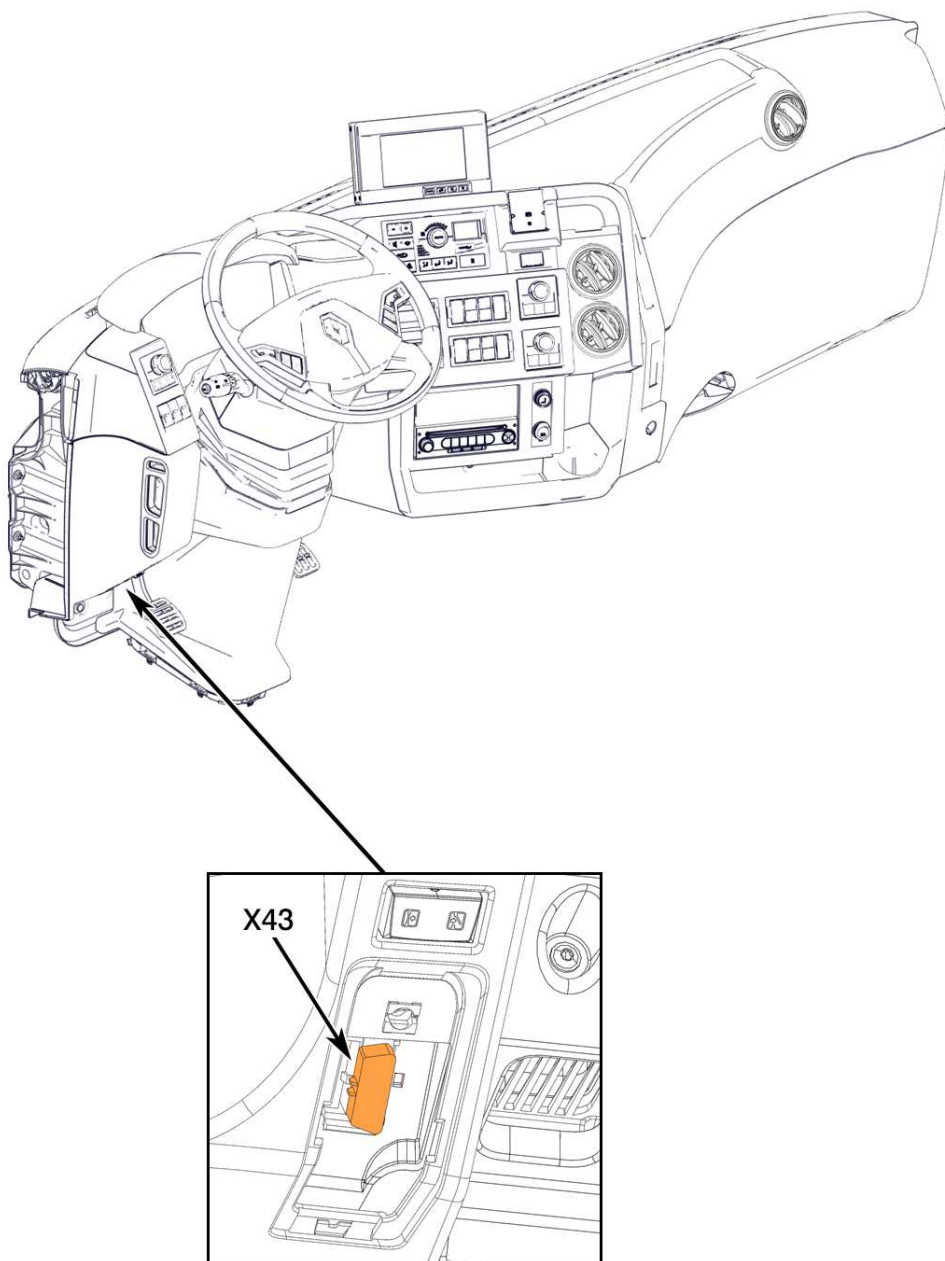
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OptiTrack hydraulic system (2/2)

Key to devices

Code	Function description	Diagram page No.
ASHO	OptiTrack hydraulic system information display	CDV
S901	OptiTrack system on/off control	CDV

Vehicle maintenance – Data link connectors



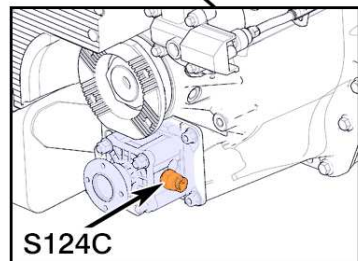
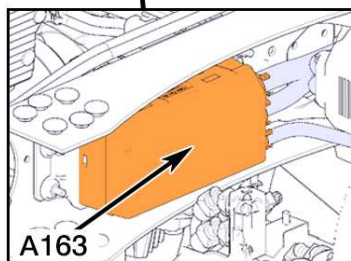
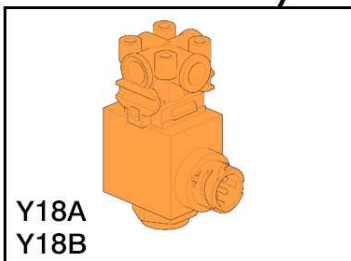
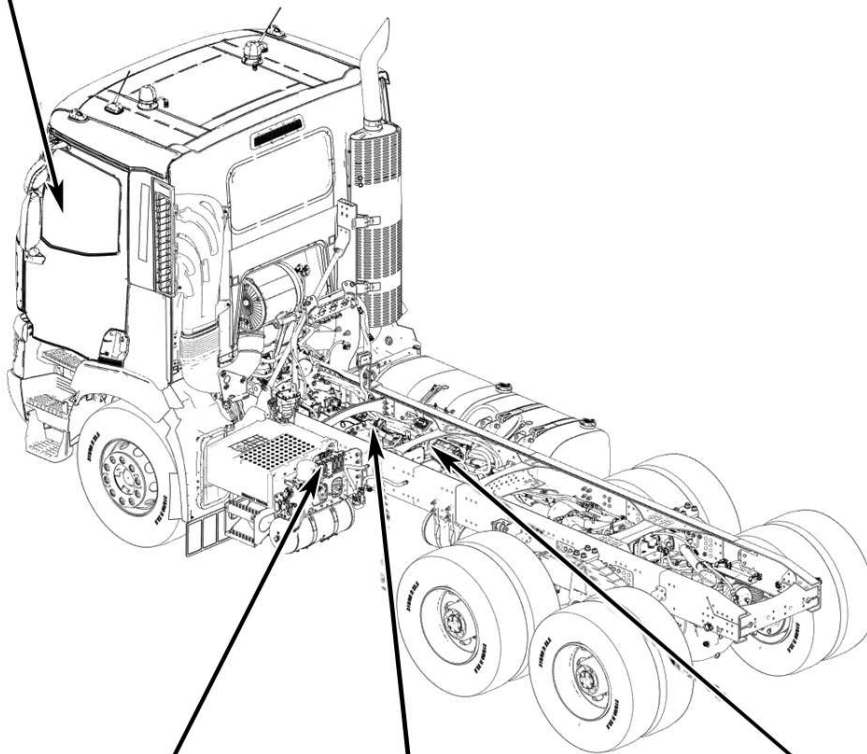
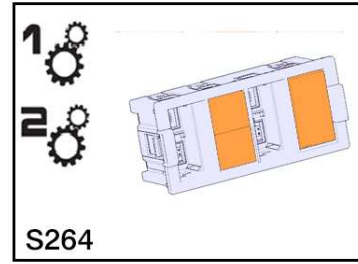
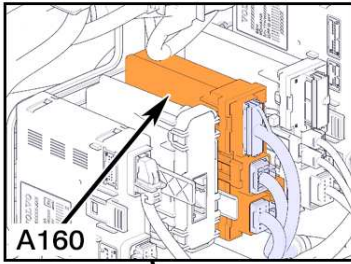
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Vehicle maintenance – Data link connectors

Key to devices

Code	Function description	Diagram page No.
X43	Vehicle diagnostic socket (OBD)	CA3

Power take-off on rigid



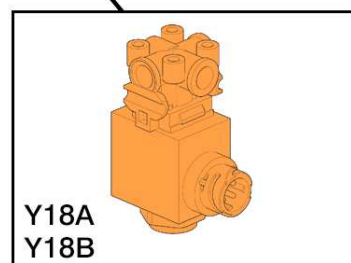
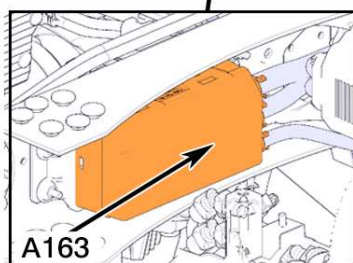
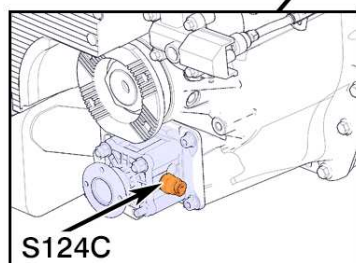
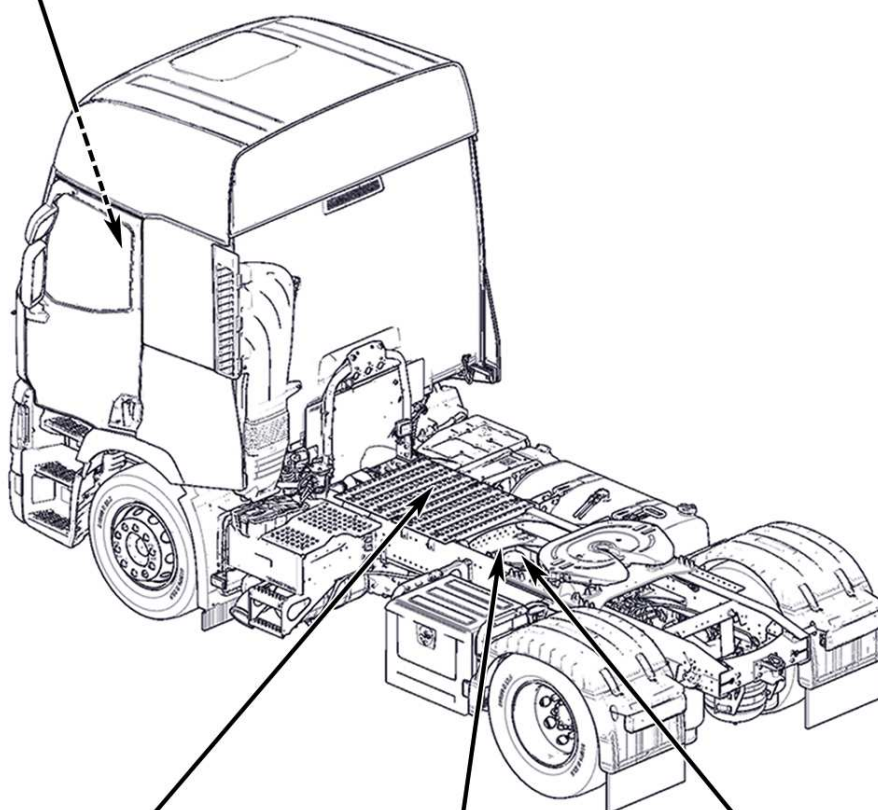
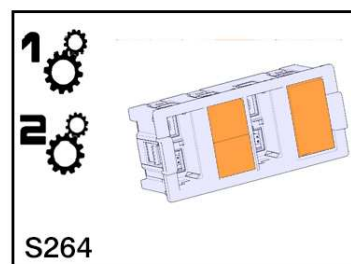
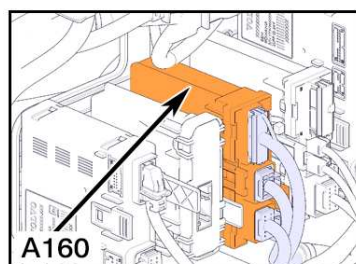
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Power take-off on rigid

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
S124C	Power take-off no. 1 position sensor	CD9
S264	Repositionable control unit (group 1)	GF1
Y18A	Power take-off no. 1 engagement solenoid valve	JAE
Y18B	Power take-off no. 2 engagement solenoid valve	JAE

Power take-off on tractor



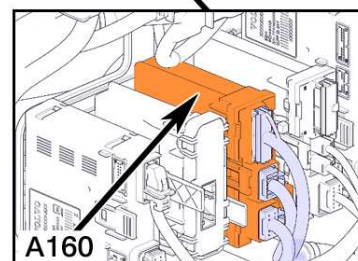
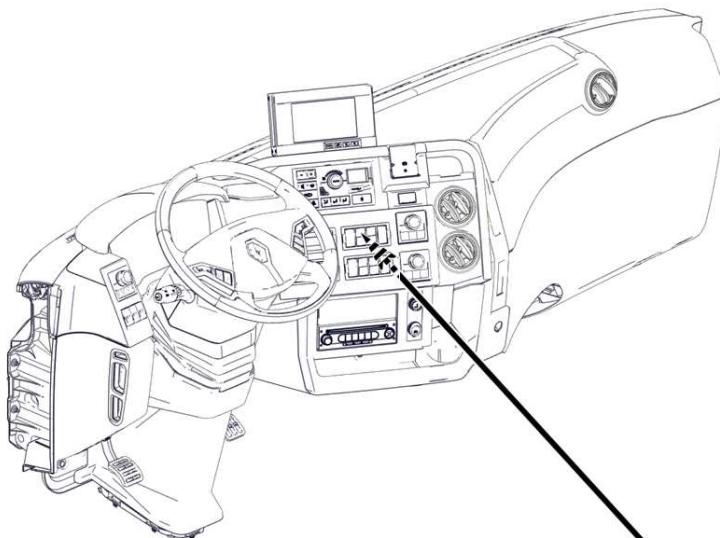
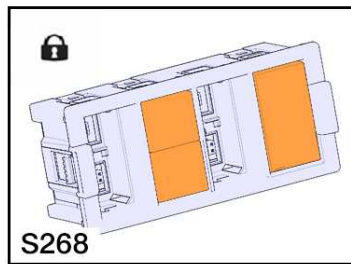
T3101457

Power take-off on tractor

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A163	Central chassis area information management control unit (CCIOM)	BAH/C2E/CD9/CDU/CF3/ CG1/CKD/HBD/HBE/HBF/ JAE
S124C	Power take-off no. 1 position sensor	CD9
S264	Repositionable control unit (group 1)	GF1
Y18A	Power take-off no. 1 engagement solenoid valve	JAE
Y18B	Power take-off no. 2 engagement solenoid valve	JAE

Door management



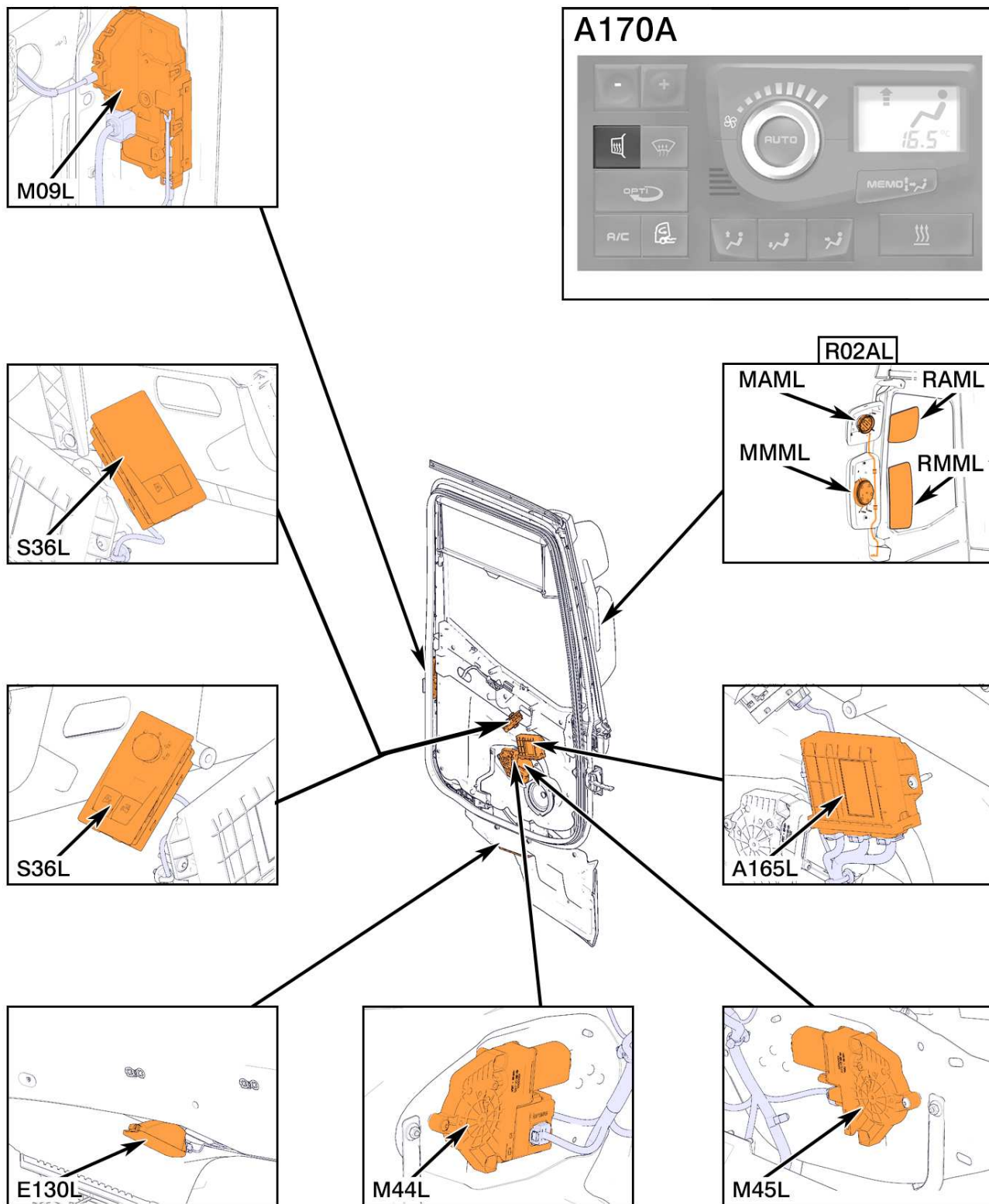
T3098728

Door management

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
S268	Repositionable control unit (group 3)	GF1

Safety management - Left-hand side door management



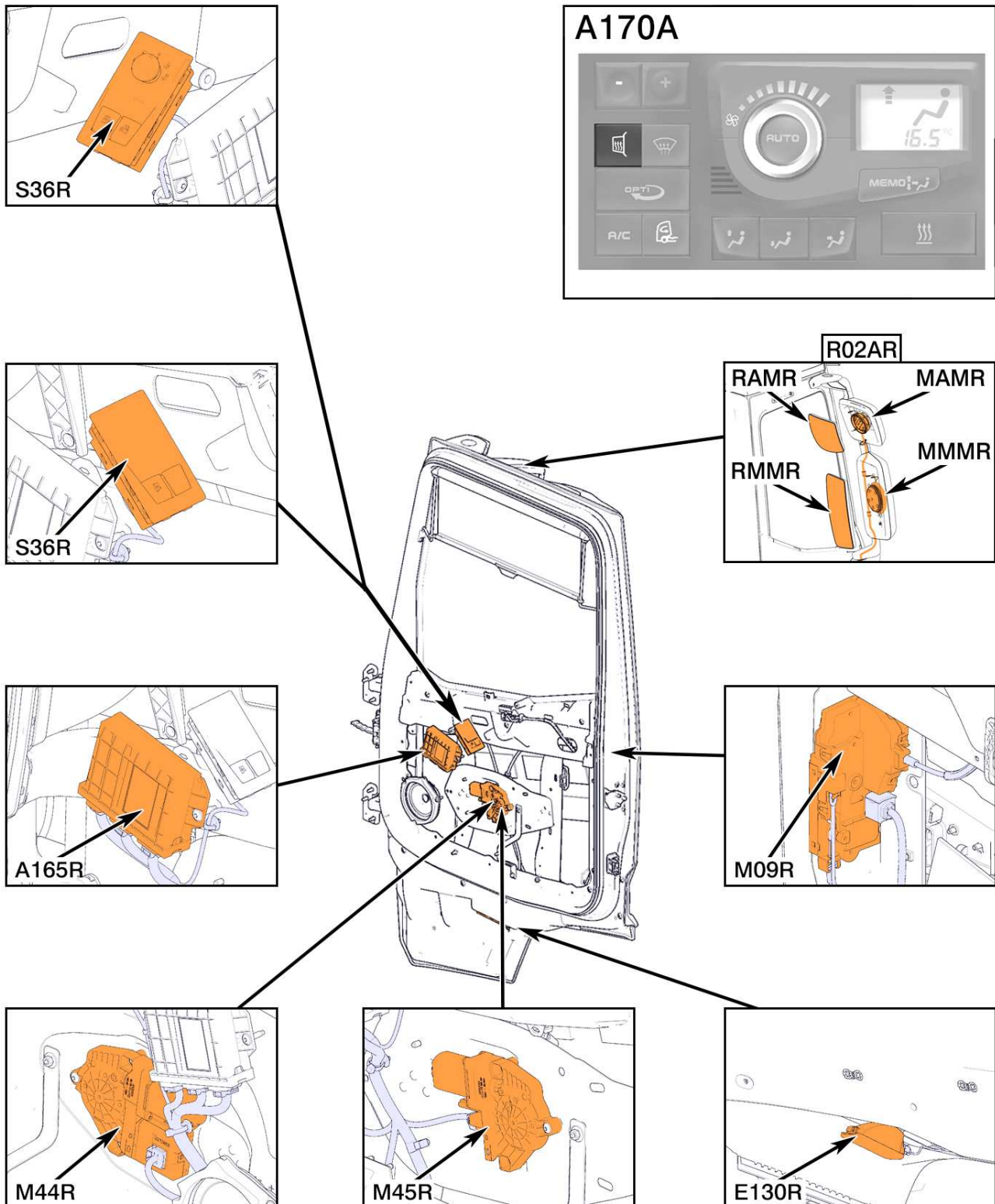
T3120291

Safety management - Left-hand side door management

Key to devices

Code	Function description	Diagram page No.
A165L	Left-hand door information management control unit (DDM/PDM)	DA7
A170A	Cab air conditioning control panel	GBP
E130L	Left-hand door edge illumination light	DA7
M09L	Left-hand front door locking system assembly	DA7
M44L	Left-hand front door window lift motor with anti-pinch system	DA7
M45L	Left-hand front door window lift motor	DA7
MAML	Wide angle rear view mirror motor, LH side	DA7
MMML	Main rear view mirror motor, LH side	DA7
R02AL	Electric rear-view mirror, left-hand side	DA7
RAML	Heated wide angle mirror, LH side	DA7
RMML	Heated main mirror, LH side	DA7
S36L	Control for left-hand front window lift motor	DA7

Safety management - Right-hand side door management



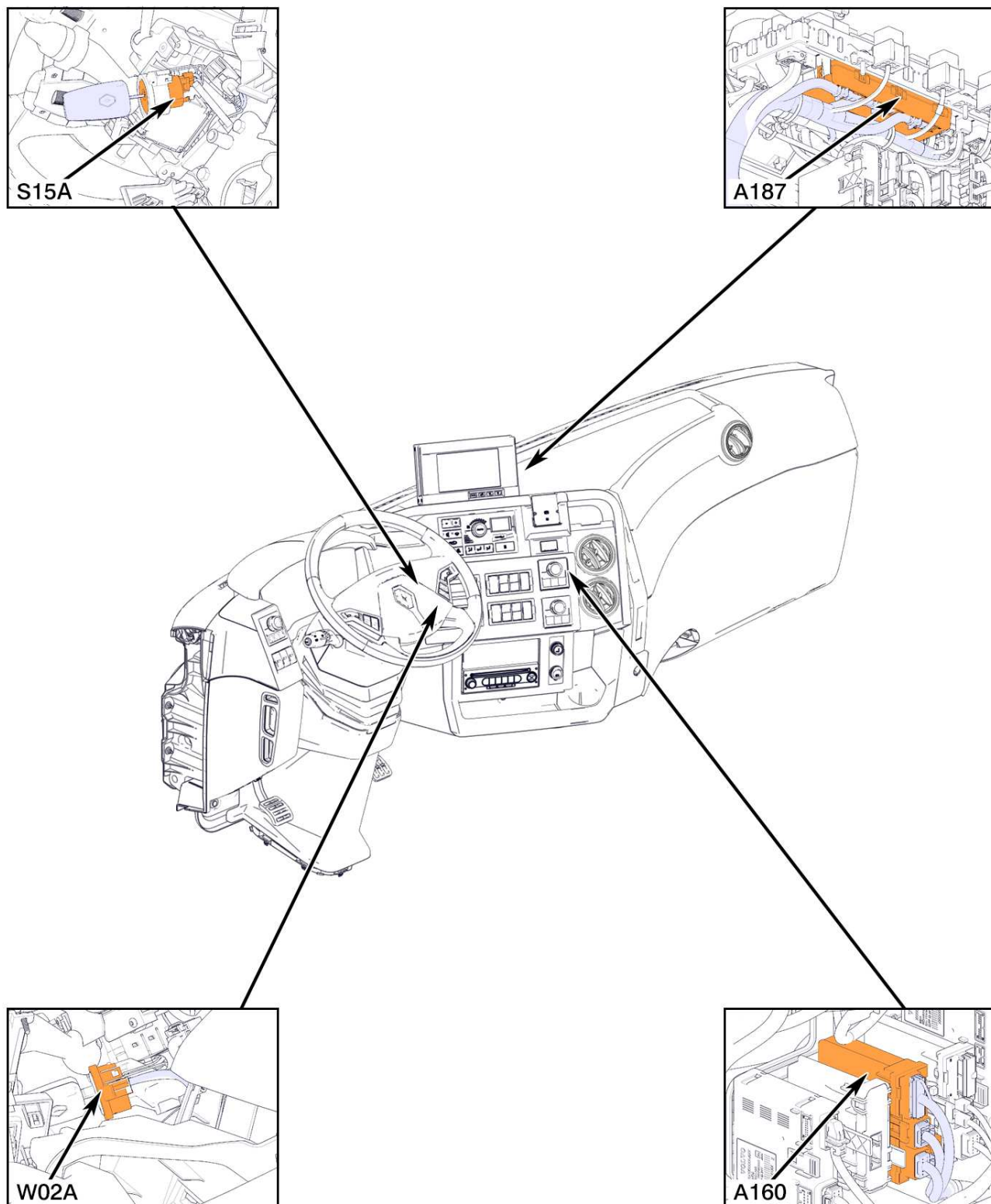
T3120465

Safety management - Right-hand side door management

Key to devices

Code	Function description	Diagram page No.
A165R	Right-hand door information management control unit (DDM/PDM)	DA8
A170A	Cab air conditioning control panel	GBP
E130R	Right-hand door edge illumination light	DA8
M09R	Right-hand front door locking system assembly	DA8
M44R	Right-hand front door window lift motor with anti-pinch system	DA8
M45R	Right-hand front door window lift motor	DA8
MAMR	Wide angle rear view mirror motor, RH side	DA8
MMMR	Main rear view mirror motor, RH side	DA8
R02AR	Electric rear-view mirror, right-hand side	DA8
RAMR	Heated wide angle mirror, RH side	DA8
RMMR	Heated main mirror, RH side	DA8
S36R	Control for right-hand front window lift motor	DA8

Safety management – Immobiliser



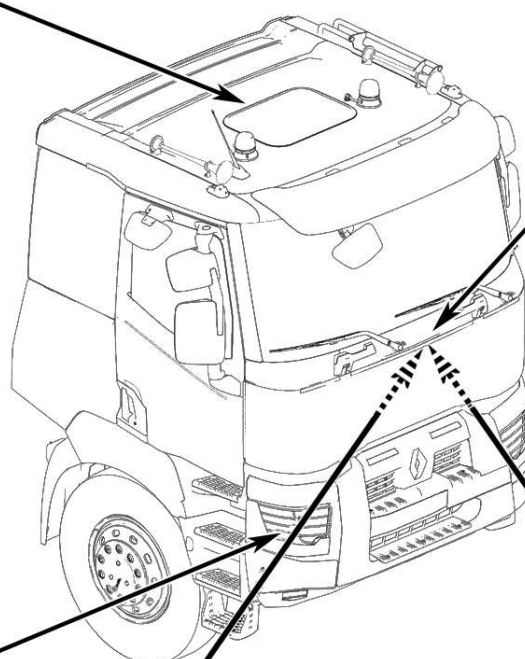
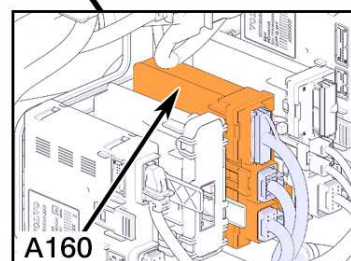
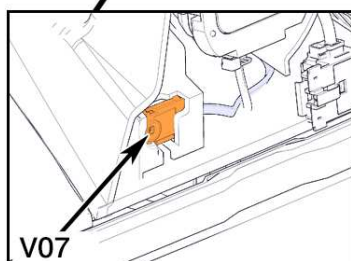
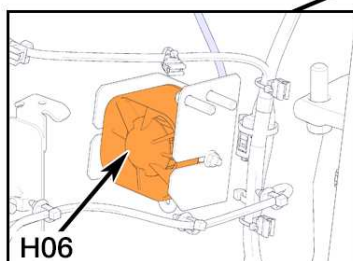
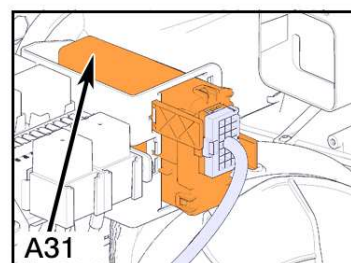
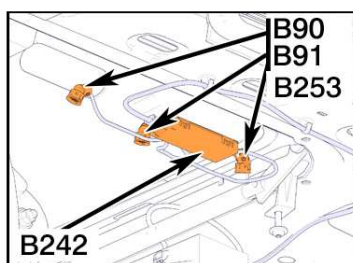
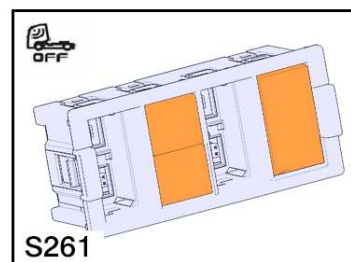
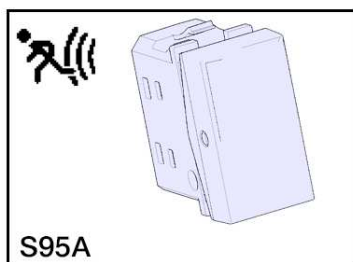
T3098731

Safety management – Immobiliser

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
S15A	Key-controlled contacts assembly	BB1
W02A	Immobiliser transponder antenna	DA6

Safety management – Alarm



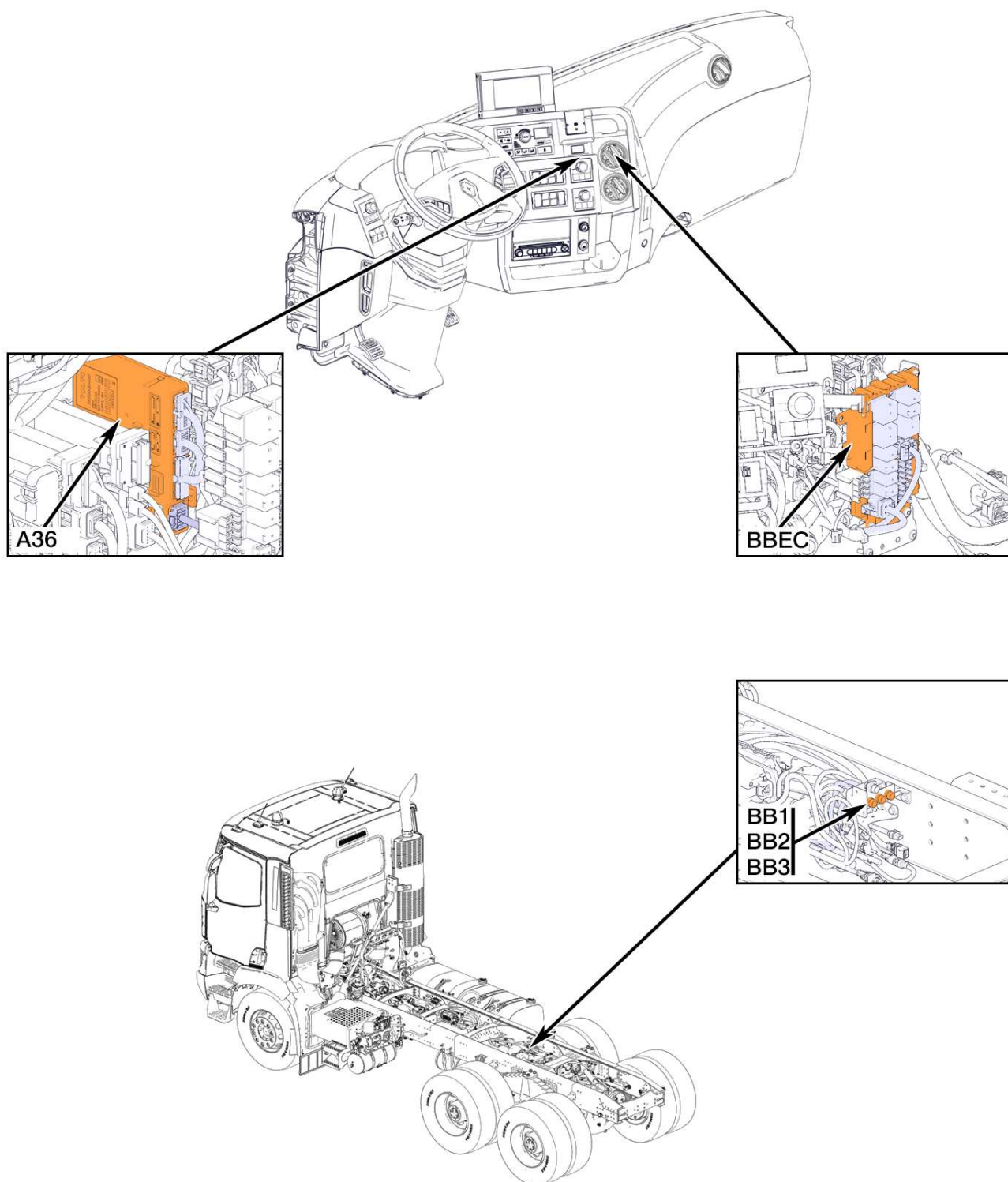
T3098732

Safety management – Alarm

Key to devices

Code	Function description	Diagram page No.
A31	Vehicle anti-theft system ECU (AECU)	DAA
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
B90	Alarm presence detector ultrasound transmitter	DAA
B91	Alarm presence detector ultrasound receiver	DAA
B242	Ultrasound decoder for anti-intrusion protection (UIP)	DAA
B253	Alarm presence detector ultrasound transmitter	DAA
H06	Horn - alarm siren	DAA
S95A	Alarm panic button control	DAA
S261	Repositionable control unit (group 5)	GF1
V07	Vehicle alarm signalling diode	DAA

Bodywork pre-equipment and fittings



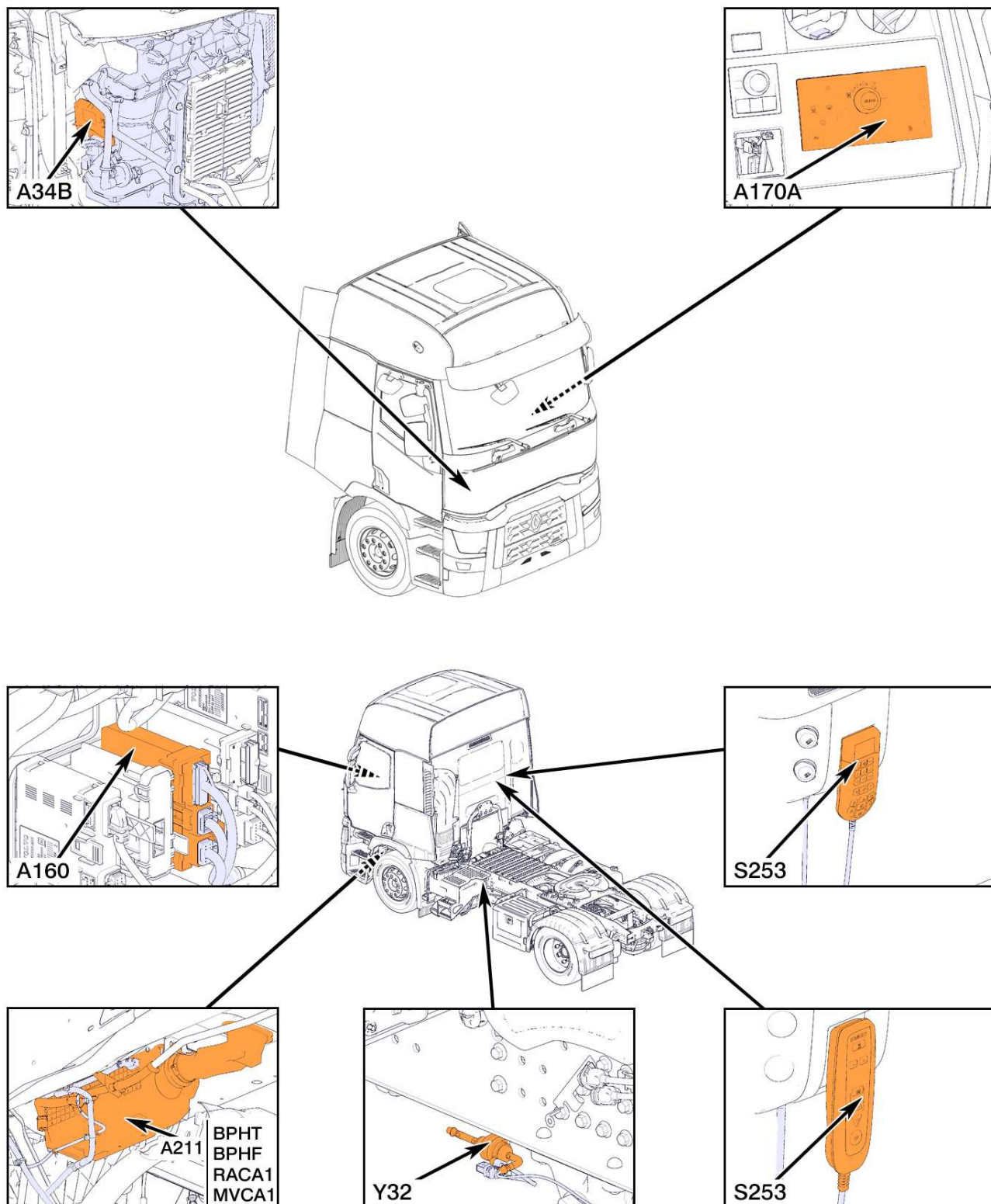
T3098733

Bodywork pre-equipment and fittings

Key to devices

Code	Function description	Diagram page No.
A36	Body builder pre-equipment management control unit (BBM)	CKC/JAC
BB1	Body builder pre-equipment connector no. 1	JAF
BB2	Body builder pre-equipment connector no. 2	JAF
BB3	Body builder pre-equipment connector no. 3	JAF
BBEC	Central electrical distribution box for body builder pre-equipment	JAF

Life on board – Air/air independent heating



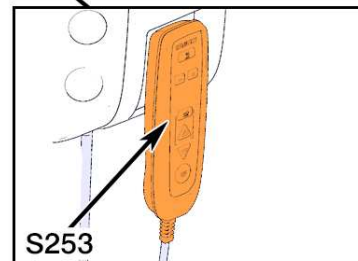
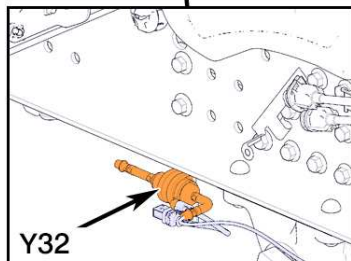
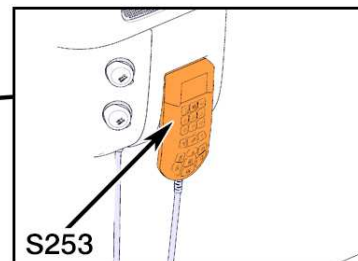
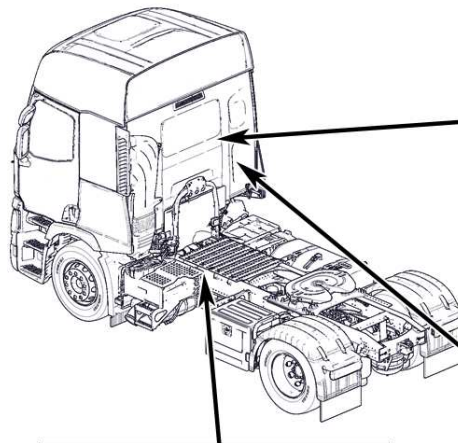
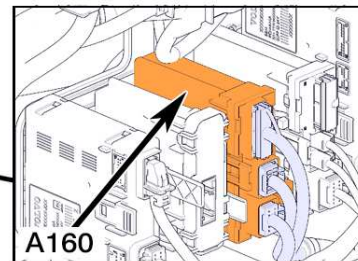
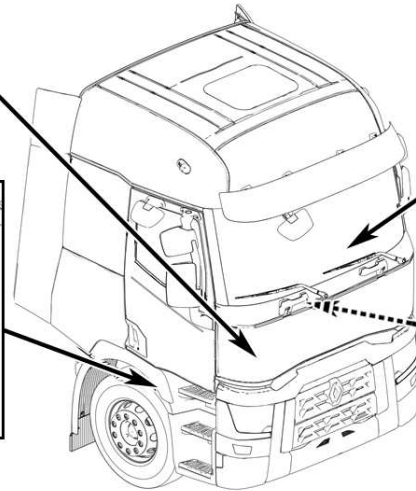
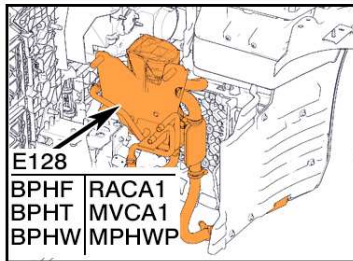
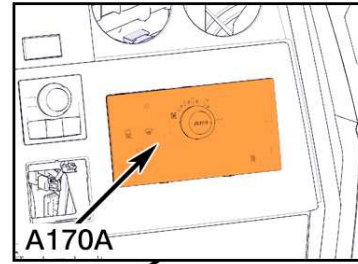
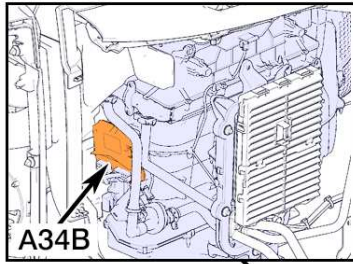
T3098734

Life on board – Air/air independent heating

Key to devices

Code	Function description	Diagram page No.
A34B	Air conditioning management control unit	GBP
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A170A	Cab air conditioning control panel	GBP
A211	Air/air independent heater	GB1
BPHF	Flame detector	GB1/GBA
BPHT	Overheating safety	GB1/GBA
MVCA1	Independent heating fan motor	GB1/GBA
RACA1	Independent heater start-up resistor	GB1/GBA
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
Y32	Fuel supply pump motor for independent heating	GB1/GBA

Life on board – Air/water independent heating



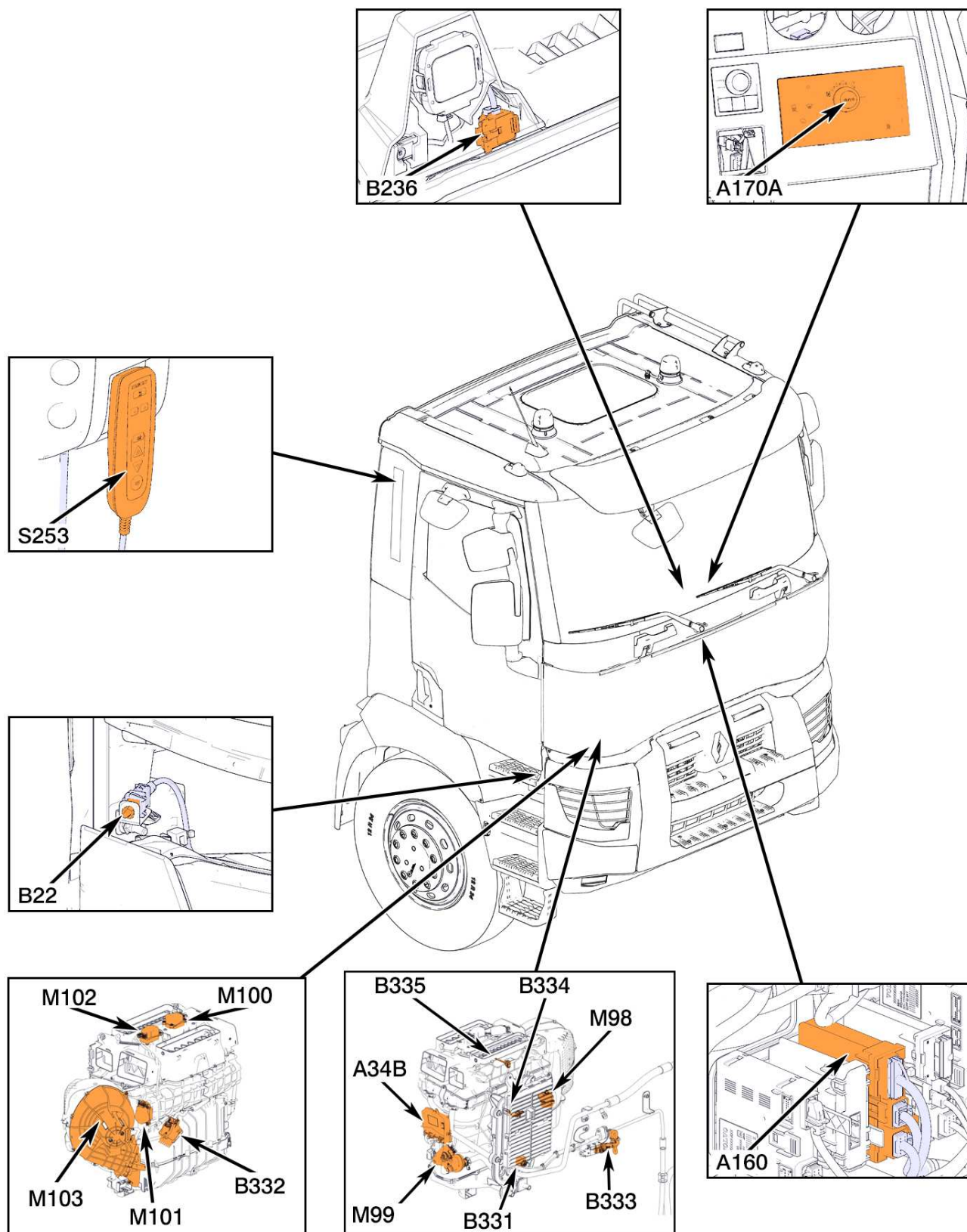
T3098735

Life on board – Air/water independent heating

Key to devices

Code	Function description	Diagram page No.
A34B	Air conditioning management control unit	GBP
A160	Cab information management control unit (CIOM)	DA6/EFB/GF1
A170A	Cab air conditioning control panel	GBP
BPHF	Flame detector	GB1/GBA
BPHT	Overheating safety	GB1/GBA
BPHW	Engine coolant temperature sensor	GBA
E128	Air/water independent heater	GBA
MPHWP	Independent heating water pump motor	GBA
MVCA1	Independent heating fan motor	GB1/GBA
RACA1	Independent heater start-up resistor	GB1/GBA
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
Y32	Fuel supply pump motor for independent heating	GB1/GBA

Life on board – Air conditioning



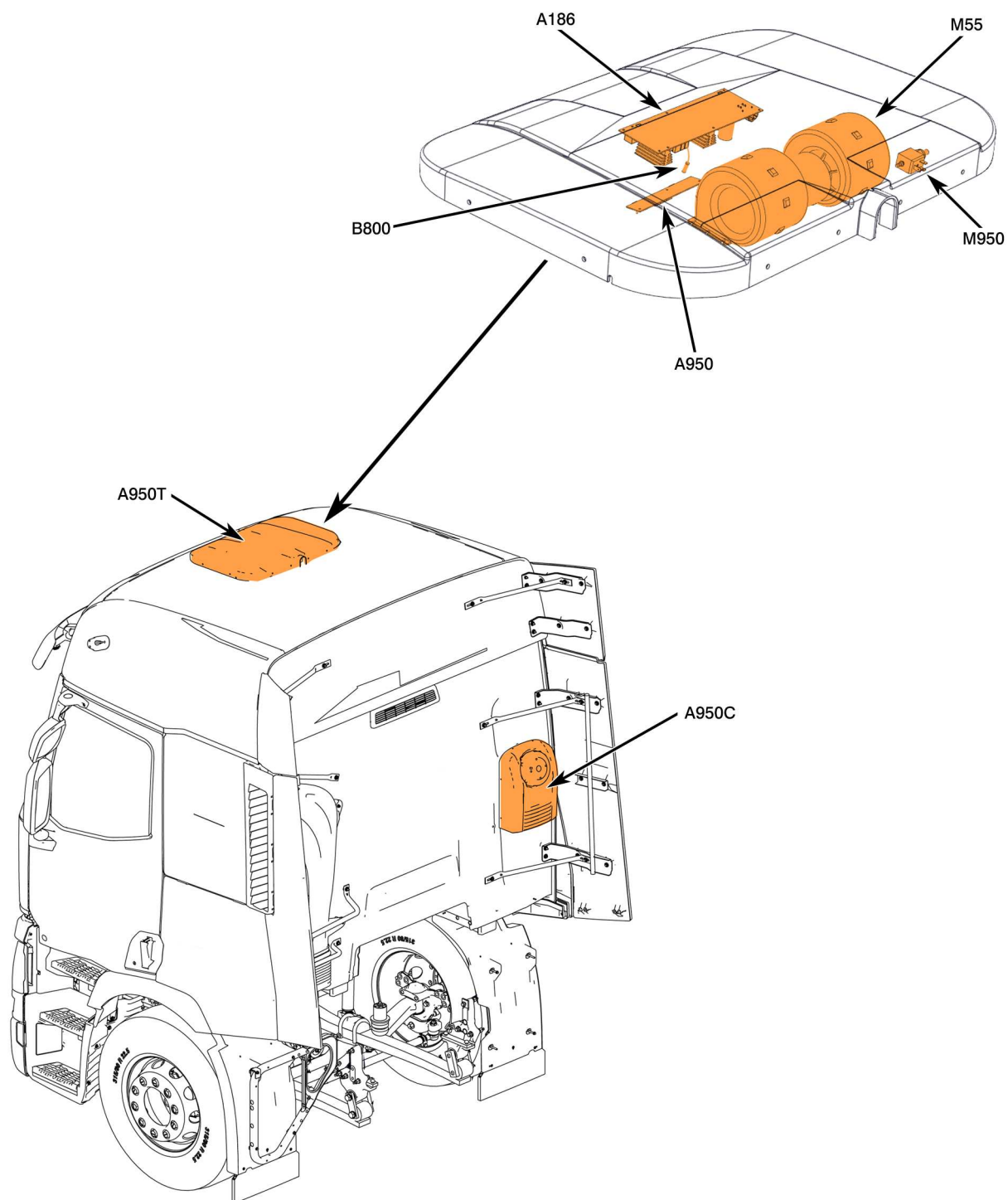
T3098736

Life on board – Air conditioning

Key to devices

Code	Function description	Diagram page No.
A34B	Air conditioning management control unit	GBP
A160	Cab information management control unit (CIOM)	DA6/EFB/GF1
A170A	Cab air conditioning control panel	GBP
B22	External temperature sensor	GBP
B236	Mist on windscreen sensor	GBP
B331	Air quality measuring sensor	GBP
B332	Air blower regulator	GBP
B333	Air conditioning gas pressure sensor	GBP
B334	Temperature sensor at evaporator output	GBP
B335	Temperature sensor at air conditioning unit output	GBP
M98	Air recirculation flap motor	GBP
M99	Engine coolant circulation motorised valve motor	GBP
M100	Flap motor for air distribution via central and footwell air vents	GBP
M101	Air mixing flap motor	GBP
M102	Windscreen air distribution flap motor	GBP
M103	Air conditioning air blower motor-driven fan	GBP
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1

Life on board - Night time air conditioning - SP950



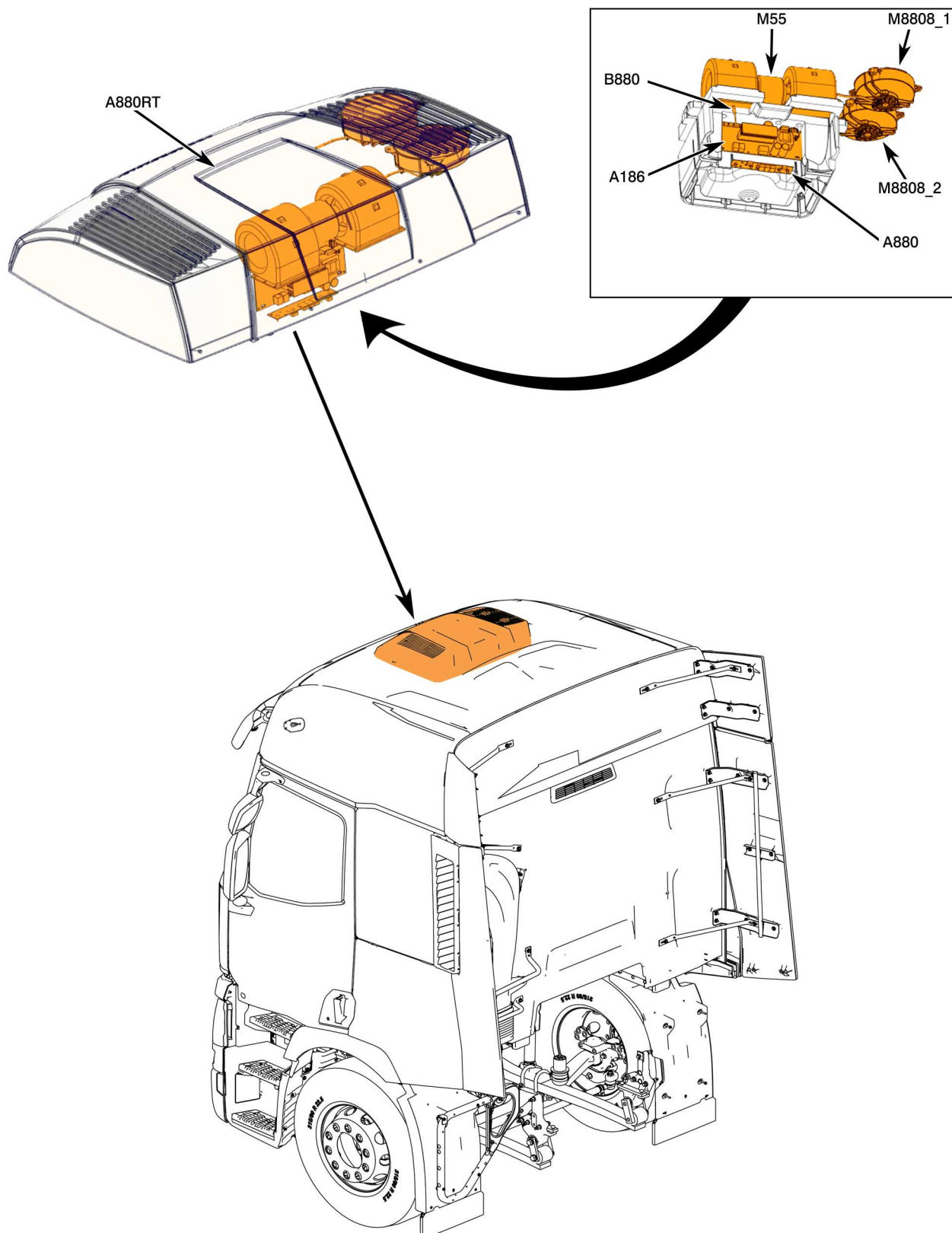
T3118405

Life on board - Night time air conditioning - SP950

Key to devices

Code	Function description	Diagram page No.
A186	Night time air conditioning ECU	GBB
A950	Night time air conditioning control panel	GBB
A950C	Night time air conditioning compressor assembly	GBB
A950T	Night time air conditioning equipment assembly	GBB
B800	Night time air conditioning temperature sensor	GBB
M55	Night time air conditioning evaporator motor-driven fan	GBB
M950	Night time air conditioning condenser pump motor	GBB

Life on board - Night time air conditioning - RT880



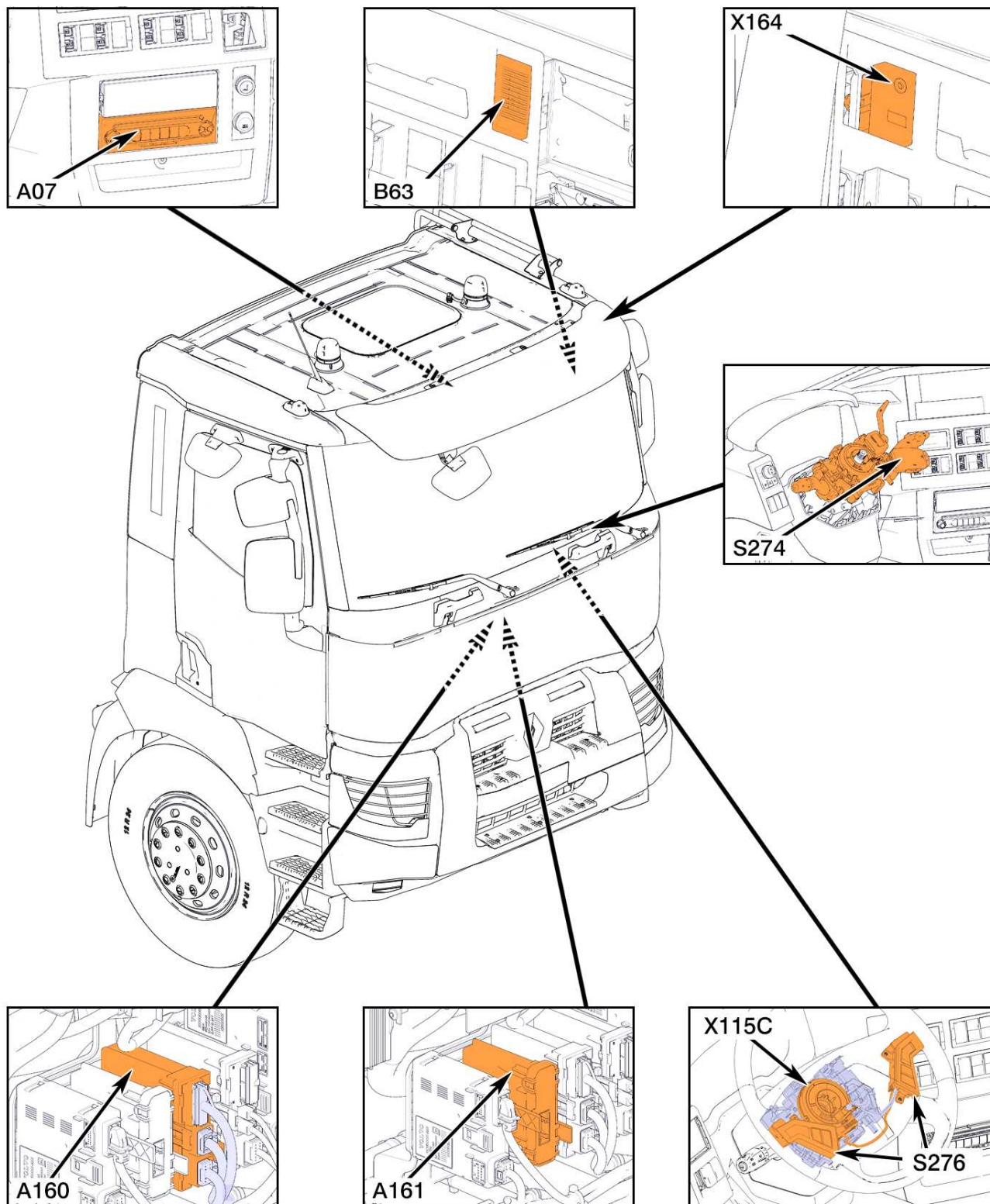
T3118406

Life on board - Night time air conditioning - RT880

Key to devices

Code	Function description	Diagram page No.
A186	Night time air conditioning ECU	GBC
A880	Night time air conditioning control panel	GBC
A880RT	Night time air conditioning equipment assembly	GBC
B800	Night time air conditioning temperature sensor	GBC
M55	Night time air conditioning evaporator motor-driven fan	GBC
M880_1	Night time air conditioning condenser motor-driven fan No. 1	GBC
M880_2	Night time air conditioning condenser motor-driven fan No. 2	GBC

Radio (1/2)



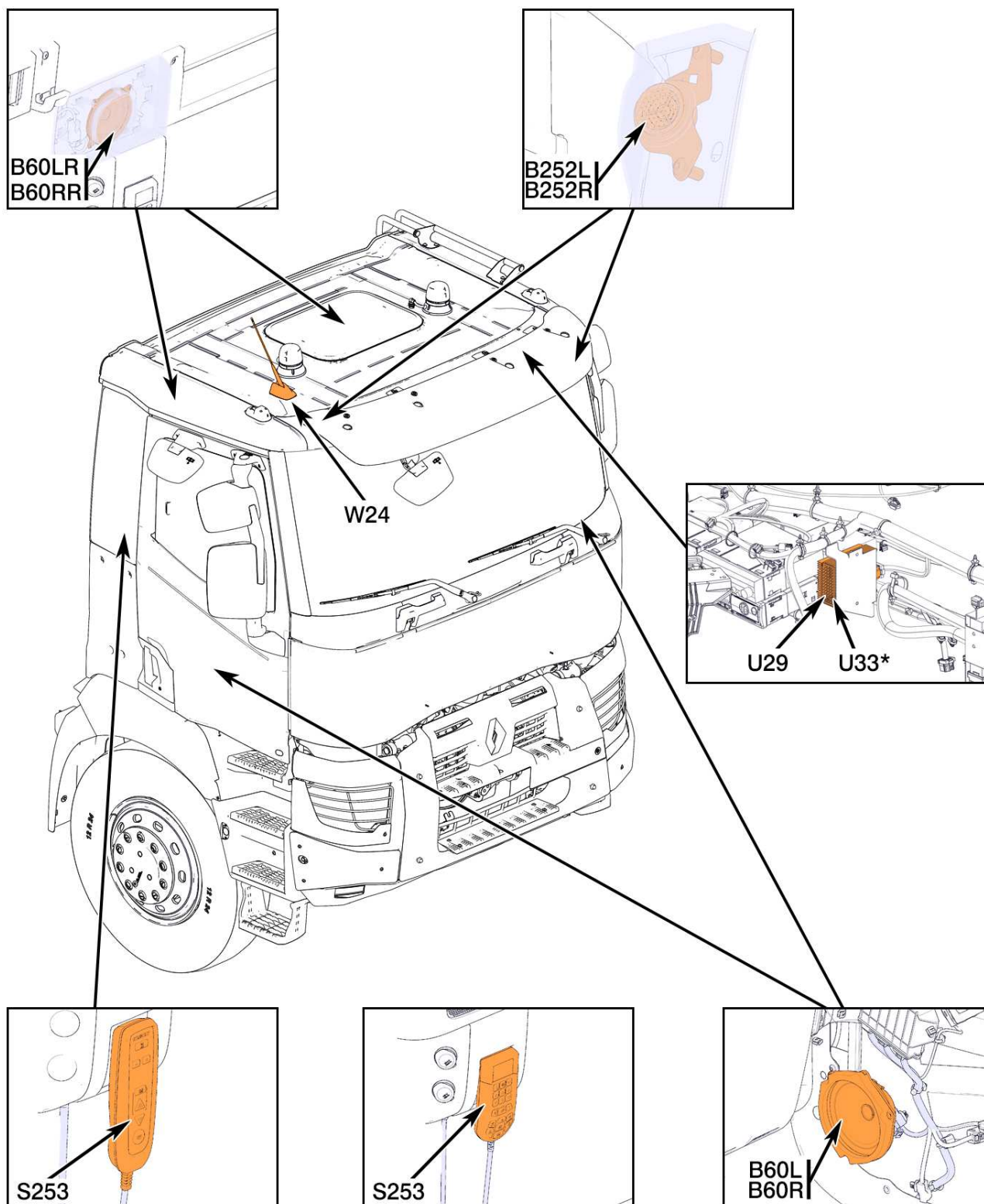
T3098737

Radio (1/2)

Key to devices

Code	Function description	Diagram page No.
A07	Radio set	GDH
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
B63	Microphone	GDH
S274	Steering column-mounted controls	GF2
S276	Steering wheel-mounted controls	GF2
X115C	Rotary switch under steering wheel	GF2
X164	USB and auxiliary audio connector	GDH

Radio (2/2)



T3122896

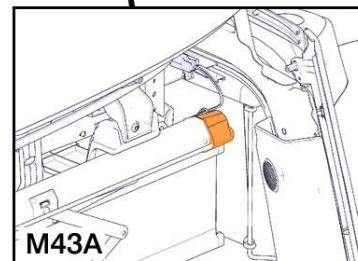
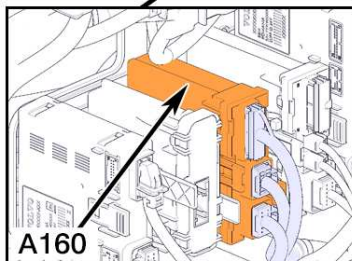
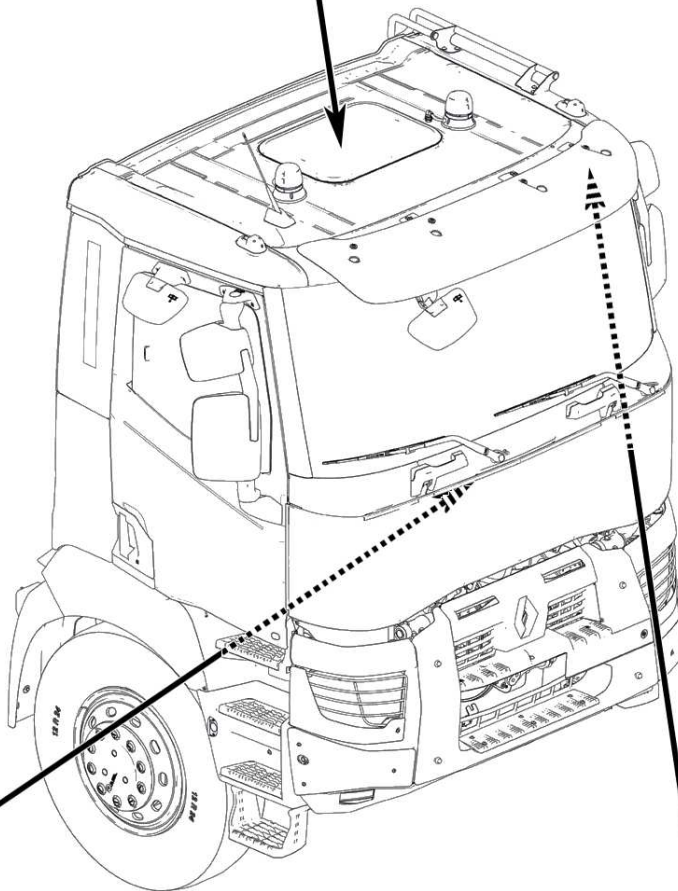
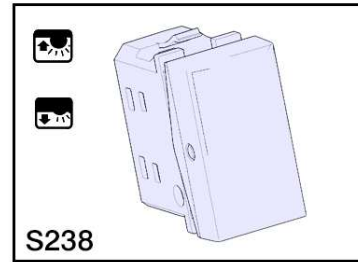
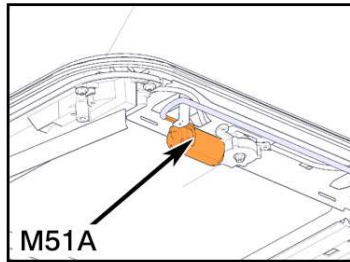
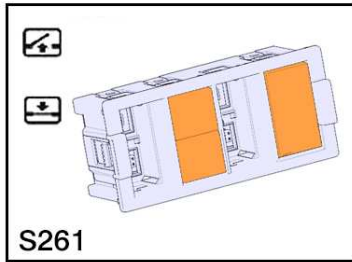
Radio (2/2)

Key to devices

Code	Function description	Diagram page No.
B60L	LH front loudspeaker	GDH
B60LR	Rear left-hand speaker	GDH
B60R	RH front loudspeaker	GDH
B60RR	Rear right-hand speaker	GDH
B252L	Tweeter speaker, left-hand side	GDH
B252R	Tweeter speaker, right-hand side	GDH
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
U29	24/12 V - 11 A voltage converter	GEA/GEB
U33	24/12 V - 20 A voltage converter	GEA
W24	Satellite antenna and radio set	CBT

* : for vehicles manufactured before **2017/03/12**

Life on board – Sun-roof and sun visor



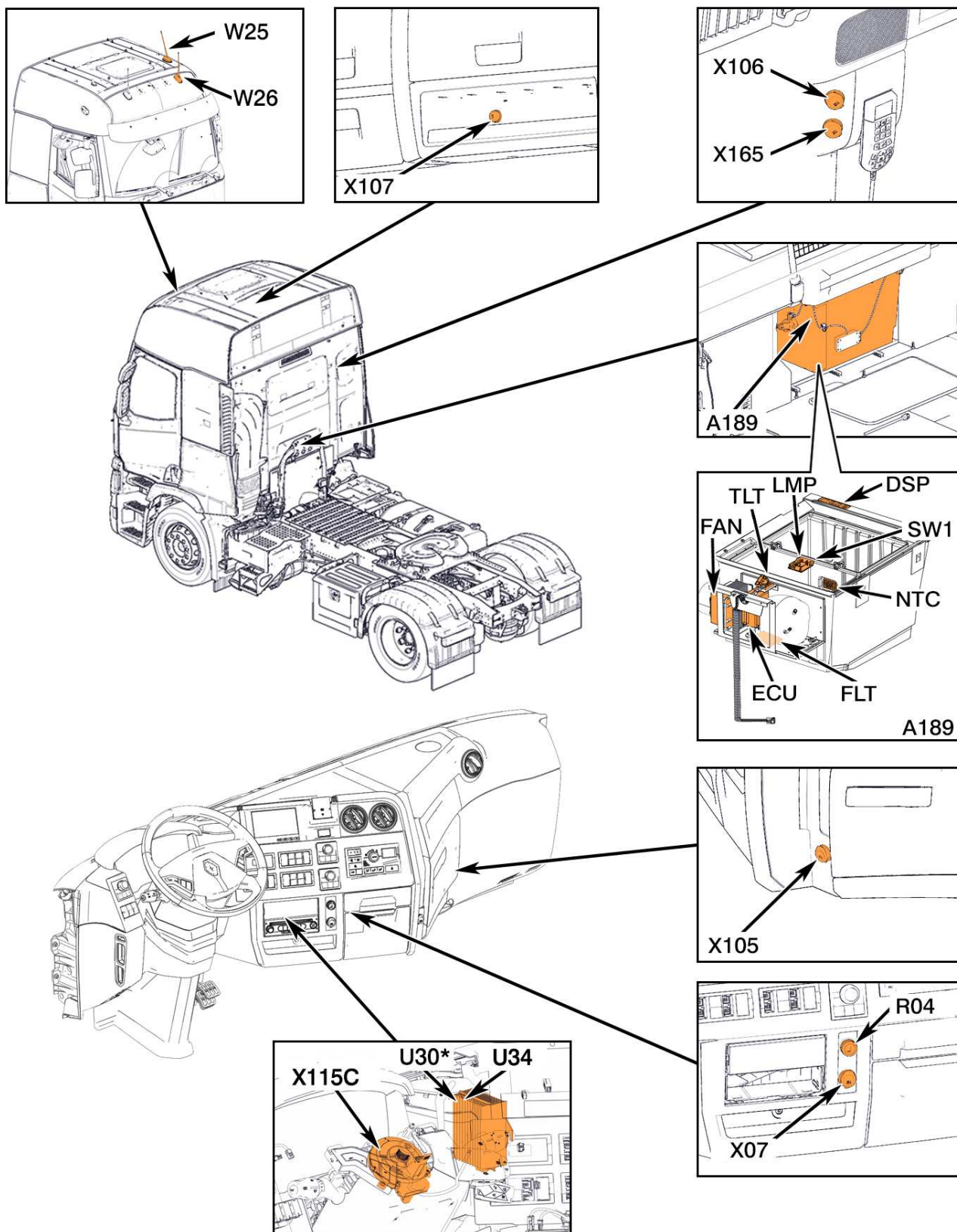
T3098739

Life on board – Sun-roof and sun visor

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
M43A	Front panel motor	GDA
M51A	Sunroof electric motor	GDA
S238	Passenger side front curtain control	GDA
S261	Repositionable control unit (group 5)	GF1

Life on board – Comfort accessories - Accessory sockets



T3135222

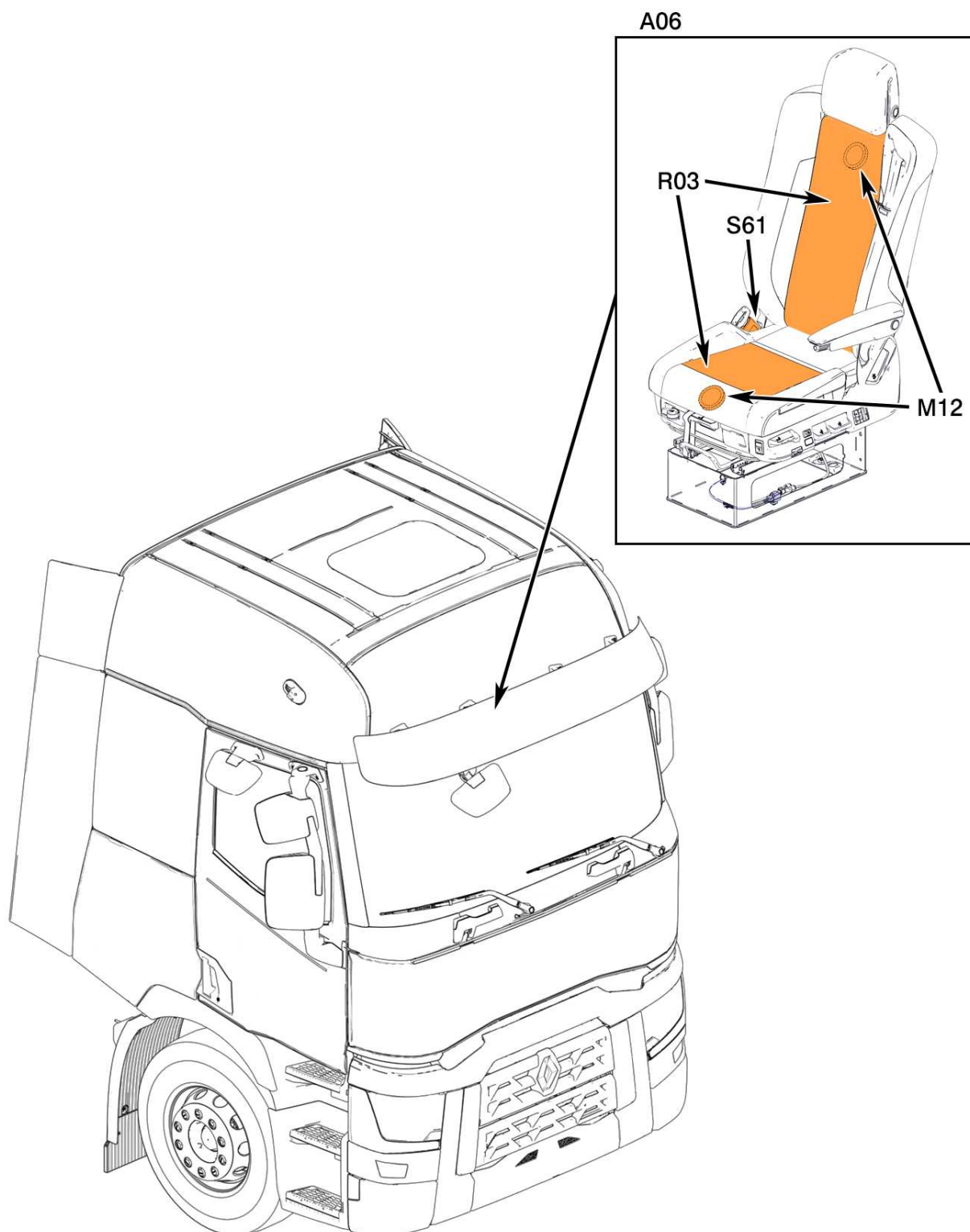
Life on board – Comfort accessories - Accessory sockets

Key to devices

Code	Function description	Diagram page No.
A189	Refrigerator	GEQ
DSP	Refrigerator setting screen	GEQ
ECU	Refrigerator ECU	GEQ
FAN	Refrigerator fan	GEQ
FLT	Refrigerator supply filter	GEQ
LMP	Refrigerator lamp	GEQ
NTC	Refrigerator temperature sensor	GEQ
SW1	Refrigerator lamp control	GEQ
TLT	Refrigerator tilt angle sensor	GEQ
R04	Cigar lighter	GEQ
U30	24/12 V - 20 A voltage converter	GEA
U34	24/12 V - 25 A voltage converter	GEA/GEB
W25	Television set antenna	GE2
W26	CB and GSM antenna	GEA/GEB
X07	12 volt power supply socket	GEA/GEB
X105	24 volt power supply socket	GEQ
X106	24 volt power supply socket	GEQ
X107	24 volt power supply socket	GEQ
X115C	Rotary switch under steering wheel	GF2
X165	12 Volts power supply socket on bunk	GEA/GEB

* : for vehicles manufactured before **2017/03/12**

Life on board - Heated driver's seat



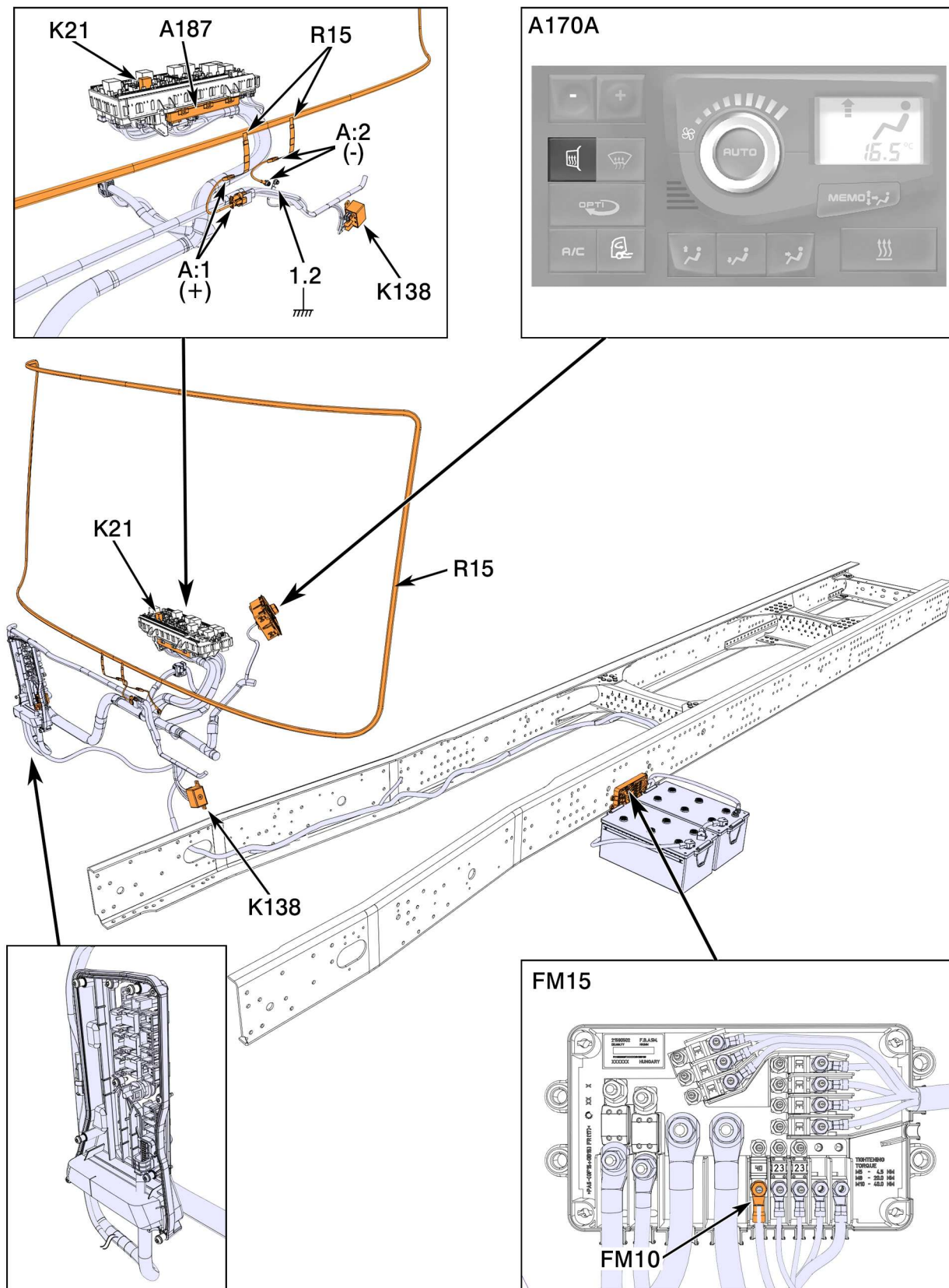
T3098727

Life on board - Heated driver's seat

Key to devices

Code	Function description	Diagram page No.
A06	Driver's heated seat unit	GC1
M12	Heated seat fan motor	GC1
R03	Driver's heated seat resistor	GC1
S61	Position sensor - driver's seat belt fastened	GC1

Life on board - Comfort accessories - Windscreen de-icing



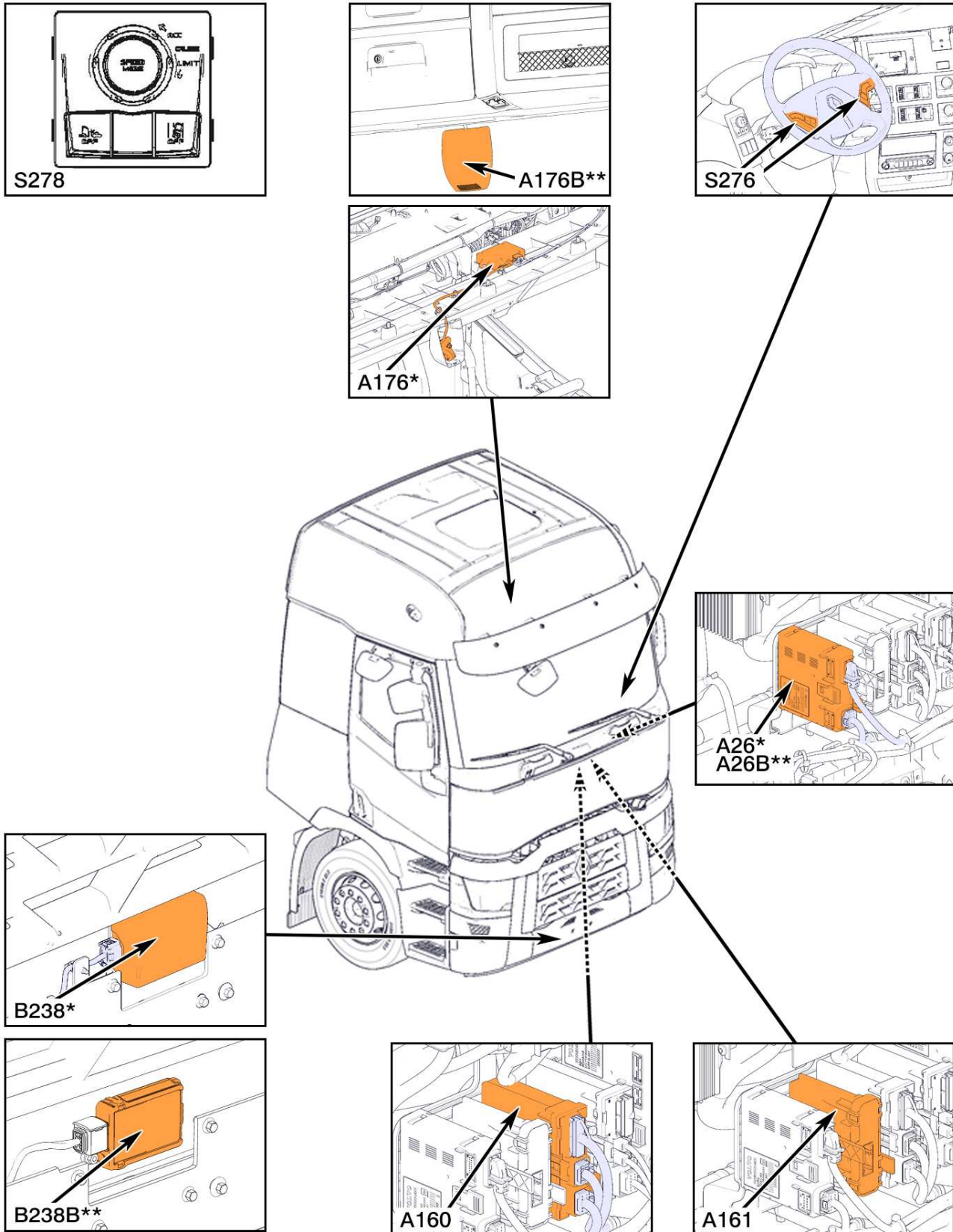
T3119129

Life on board - Comfort accessories - Windscreen de-icing

Key to devices

Code	Function description	Diagram page No.
A170A	Cab air conditioning control panel	GBP
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
FM10	Power fuse	BA2
FM15	Power fuse box	BA2
K138	Windscreen de-icing resistors power supply relay	GCB
K21	Electric rear-view mirror power supply relay	DA7/DA8
R15	Windscreen de-icing resistor	GCB

Driving assist



T3129570

Driving assist

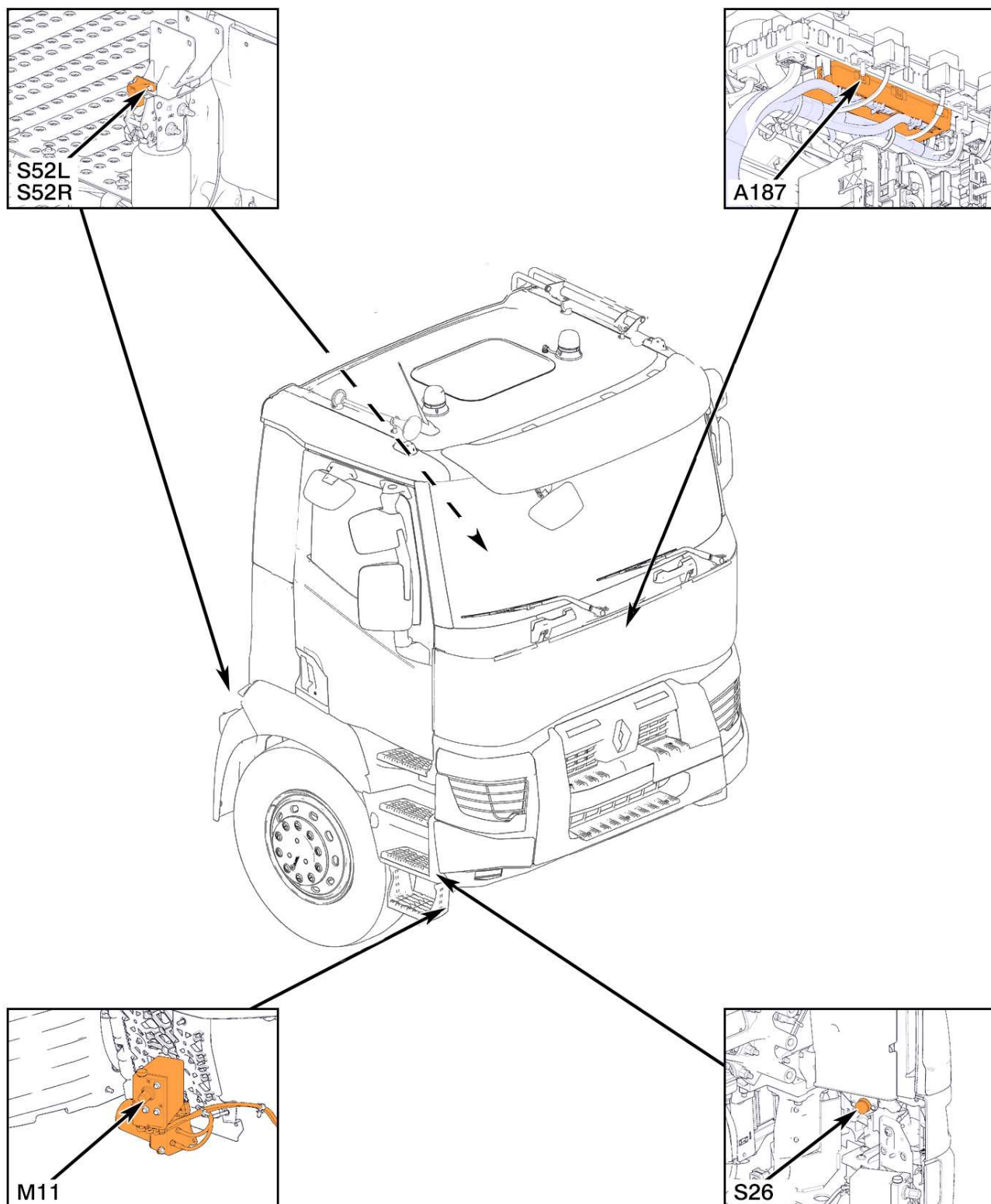
Key to devices

Code	Function description	Diagram page No.
A26	Driving assist management control unit (DACU)	FJK
A26B	Driving assist management control unit (DACU)	FJL
A160	Cab information management control unit (CIOM)	DA6/EFB/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A176	Camera unit plus lane position change and object detection sensors (LPOS)	FJK
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	FJL
B238	Object detection and distance radar sensor (FLS)	FJK
B238B	Object detection and distance radar sensor (FLS)	FJL
S276	Steering wheel-mounted controls	GF2
S278	Cruise control control assembly	GF1

* : for vehicles manufactured before **2018/06/04**

** : for vehicles manufactured after **2018/06/03**

Vehicle maintenance – Cab tilt



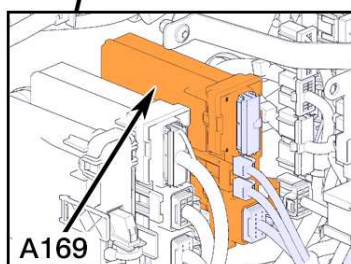
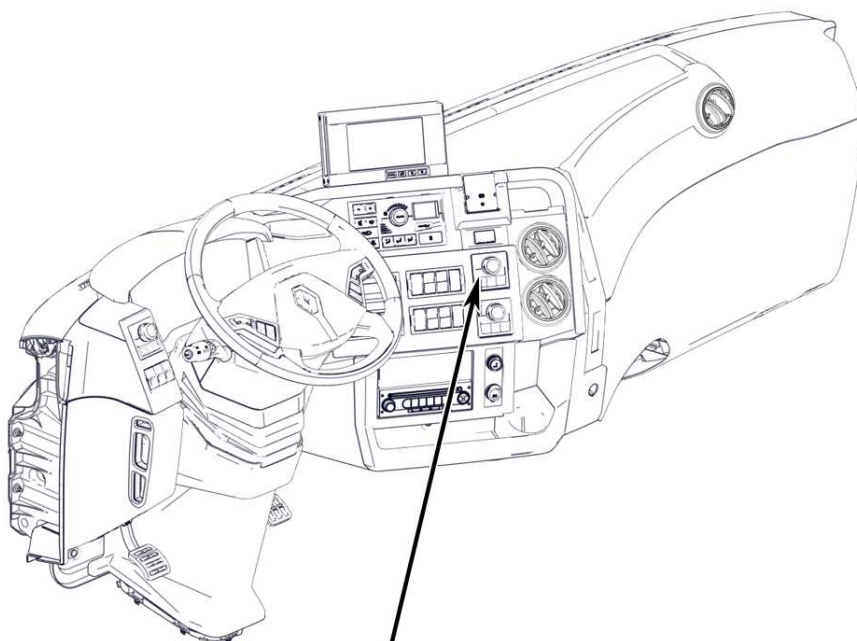
T3098741

Vehicle maintenance – Cab tilt

Key to devices

Code	Function description	Diagram page No.
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
M11	Cab tilt motor	HAA
S26	Cab tilt control	HAA
S52L	Left-hand position sensor - cab tilt safety feature	HAA
S52R	Right-hand position sensor - cab tilt safety feature	HAA

Safety management - Video surveillance



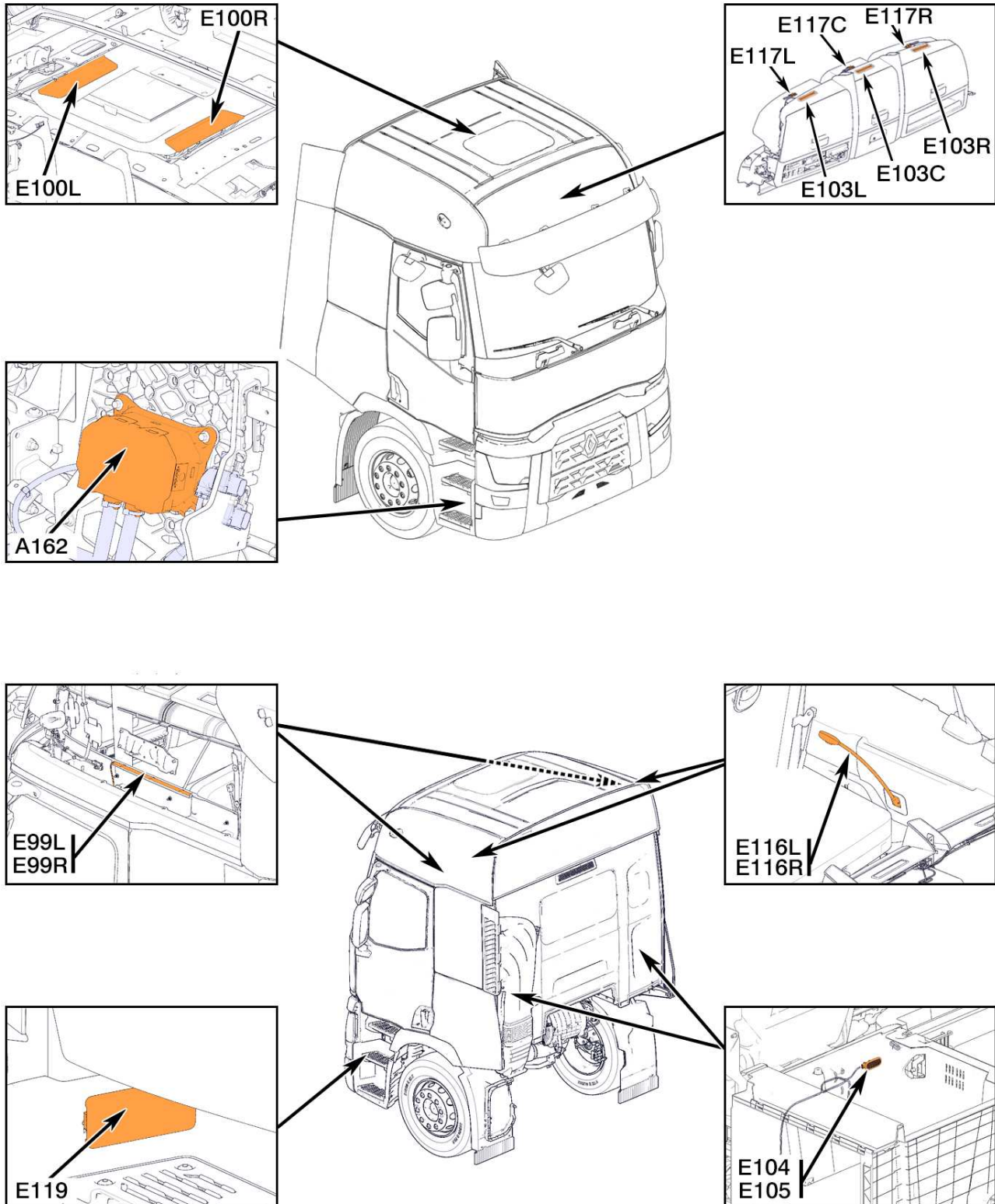
T3098742

Safety management - Video surveillance

Key to devices

Code	Function description	Diagram page No.
A169	Video control unit (VS)	DAE

Interior lighting management (1/2)



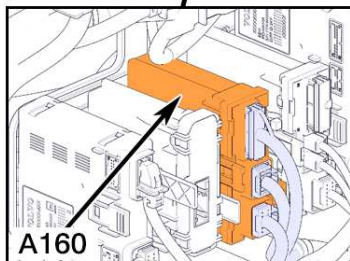
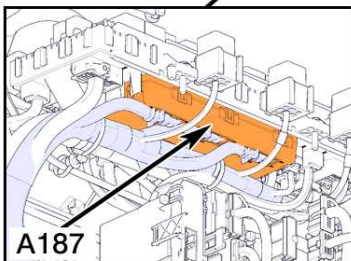
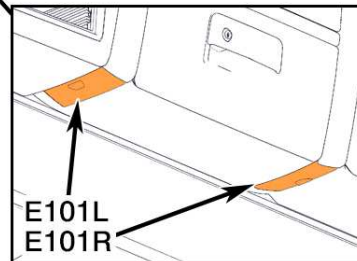
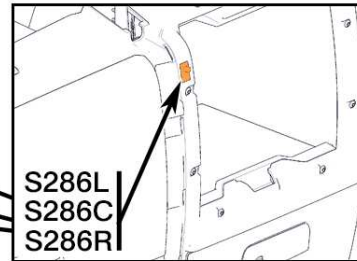
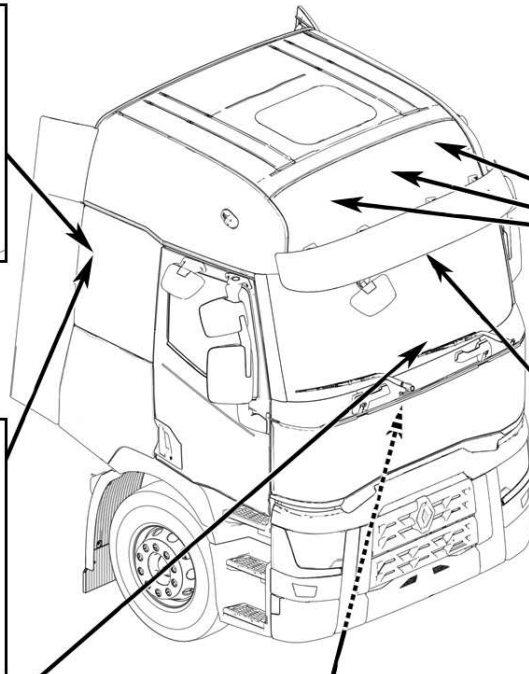
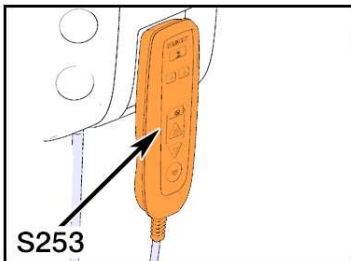
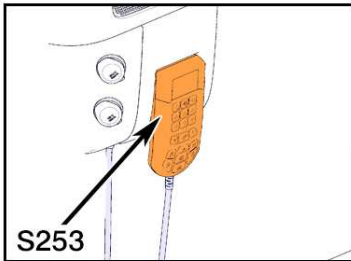
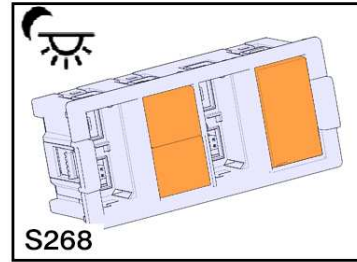
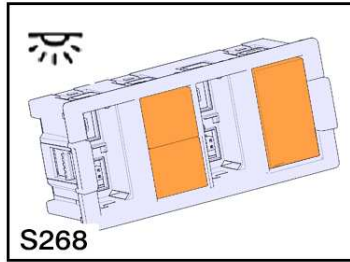
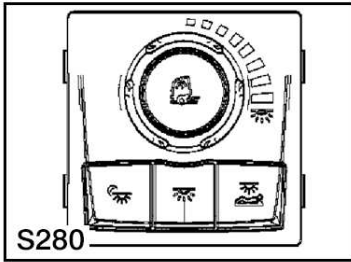
T3098744

Interior lighting management (1/2)

Key to devices

Code	Function description	Diagram page No.
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/GBP
E99L	Left-hand side bunk lighting lamp	GA1
E99R	Right-hand side bunk lighting lamp	GA1
E100L	Lighting unit, left-hand cabin light (environment)	GA1
E100R	Lighting unit, right-hand cabin light (environment)	GA1
E103C	Centre console light (ambiance)	GA1
E103L	Left-hand console light (ambiance)	GA1
E103R	Right-hand console light (ambiance)	GA1
E104	Light for storage compartment under bunk no. 1	GA1
E105	Light for storage compartment under bunk no. 2	GA1
E116L	Directional reading light, left-hand side	GA1
E116R	Directional reading light, right-hand side	GA1
E117C	Light for storage compartment in centre console	GA1
E117L	Light for storage compartment in left-hand console	GA1
E117R	Light for storage compartment in right-hand console	GA1
E119	Driver's side stepwell lighting lamp	GA1

Interior lighting management (2/2)



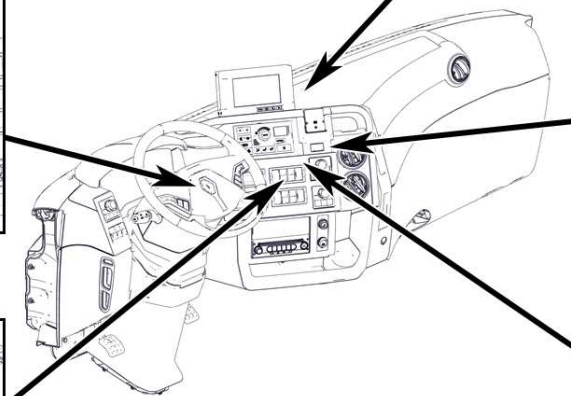
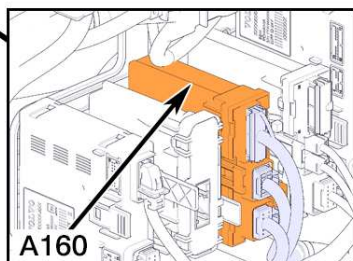
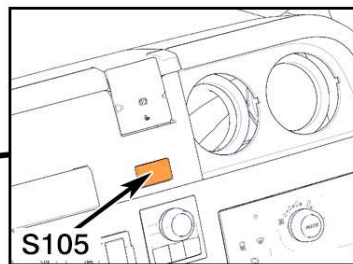
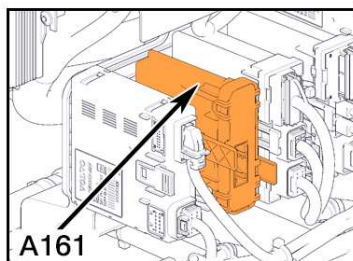
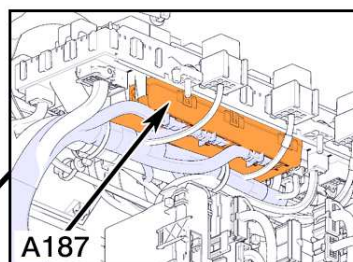
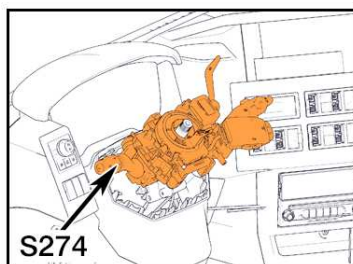
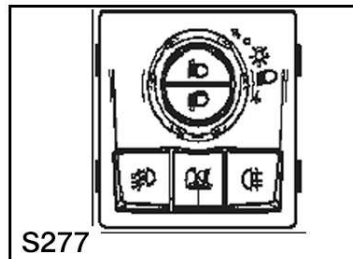
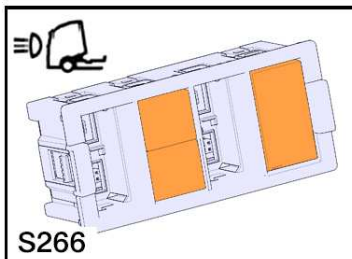
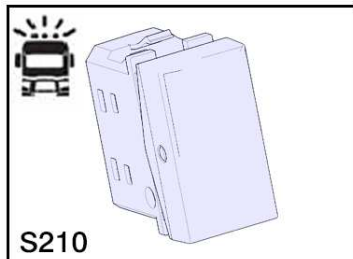
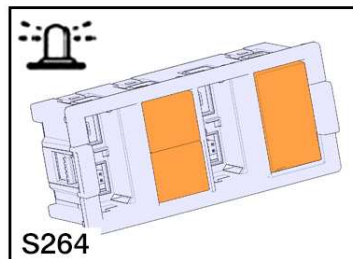
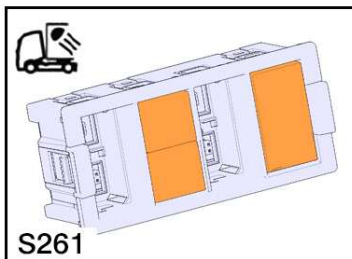
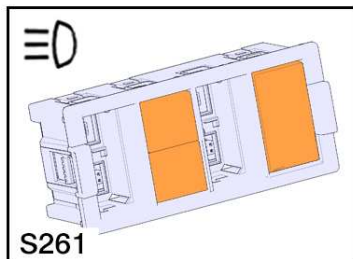
T3098746

Interior lighting management (2/2)

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
E101L	Reading light, left-hand side	GA1
E101R	Reading light, right-hand side	GA1
S253	Onboard equipment auxiliaries management remote control (LECM)	GF1
S268	Repositionable control unit (group 3)	GF1
S280	Cab lighting control	GF1
S286C	Centre console lighting contact	GA1
S286L	Left-hand console lighting contact	GA1
S286R	Right-hand console lighting contact	GA1

External lighting management (1/4)



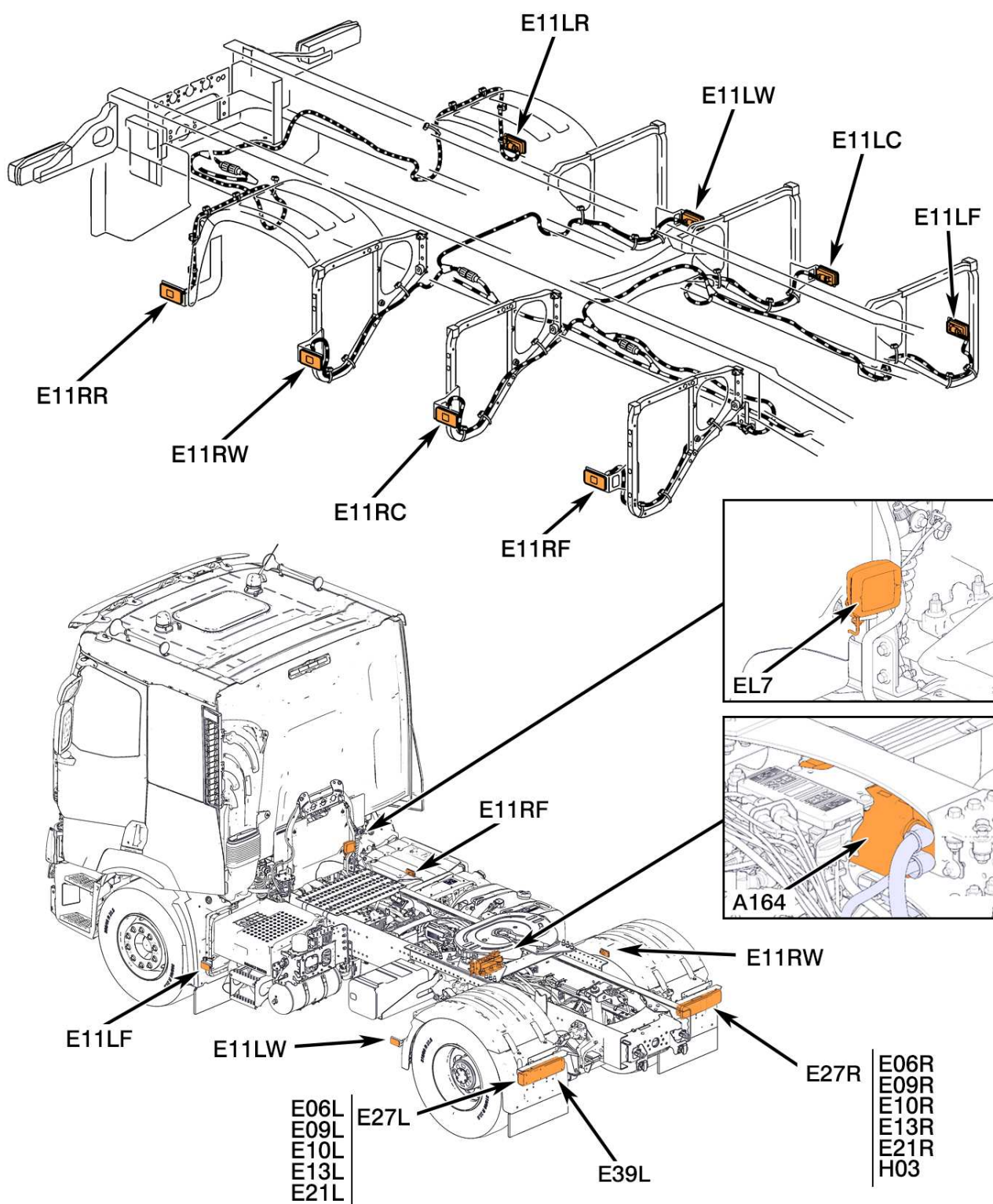
T3098751

External lighting management (1/4)

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
S105	Hazard lights control	CA3
S210	Identification lights on roof control	EBJ
S261	Repositionable control unit (group 5)	GF1
S264	Repositionable control unit (group 1)	GF1
S266	Repositionable control unit (group 2)	GF1
S274	Steering column-mounted controls	GF2
S277	External lighting control unit	GF1

External lighting management (2/4)



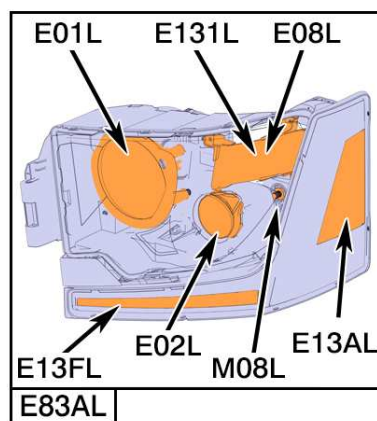
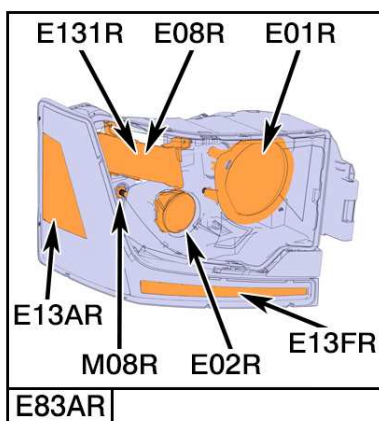
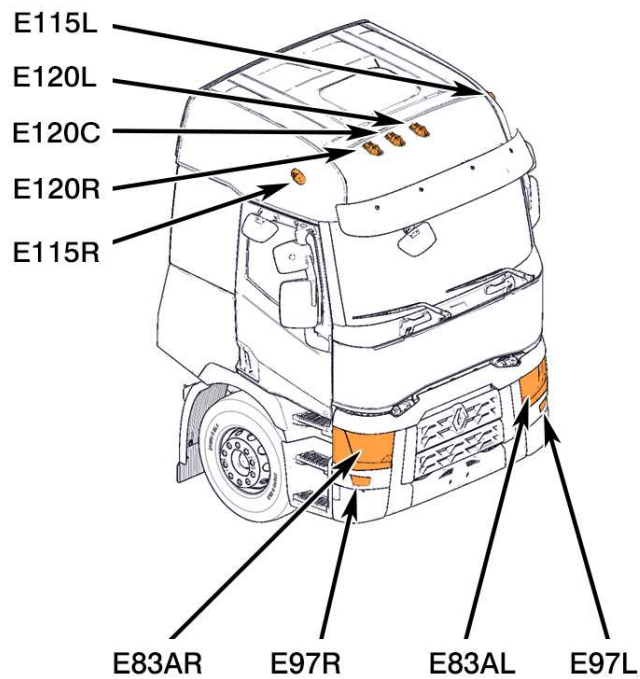
T3098752

External lighting management (2/4)

Key to devices

Code	Function description	Diagram page No.
A164	Rear chassis area information management control unit (RCIOM)	CDU/CF3/CGA/CGM/CK1/ EAA/EBH/HBD/HBE/HBF
E06L	Left-hand reverse lamp	EAA
E06R	Right-hand reverse lamp	EAA
E09L	Left-hand brake light	EAA
E09R	Right-hand brake light	EAA
E10L	Left-hand rear parking lamp	EAA
E10R	Right-hand rear parking lamp	EAA
E11LC	Side parking lamp - left-hand centre	EBH
E11LF	Side parking lamp - left-hand front	EBH
E11LR	Side parking lamp - left-hand rear	EBH
E11LW	Side parking lamp - left-hand rear wheel	EBH
E11RC	Side parking lamp - right-hand centre	EBH
E11RF	Side parking lamp - right-hand front	EBH
E11RR	Side parking lamp - right-hand rear	EBH
E11RW	Side parking lamp - rear right-hand wheel	EBH
E13L	Left-hand rear direction indicator lamp	EAA
E13R	Right-hand rear direction indicator lamp	EAA
E21L	Left-hand fog light	EAA
E21R	Right-hand fog light	EAA
E27L	Left-hand tail lights unit	EAA
E27R	Right-hand tail lights unit	EAA
E39L	Registration plate left-hand side lighting lamp	EAA
EL7	Trailer hitch area spotlight	JAE
H03	Reversing audible warning	EAA

External lighting management (3/4)



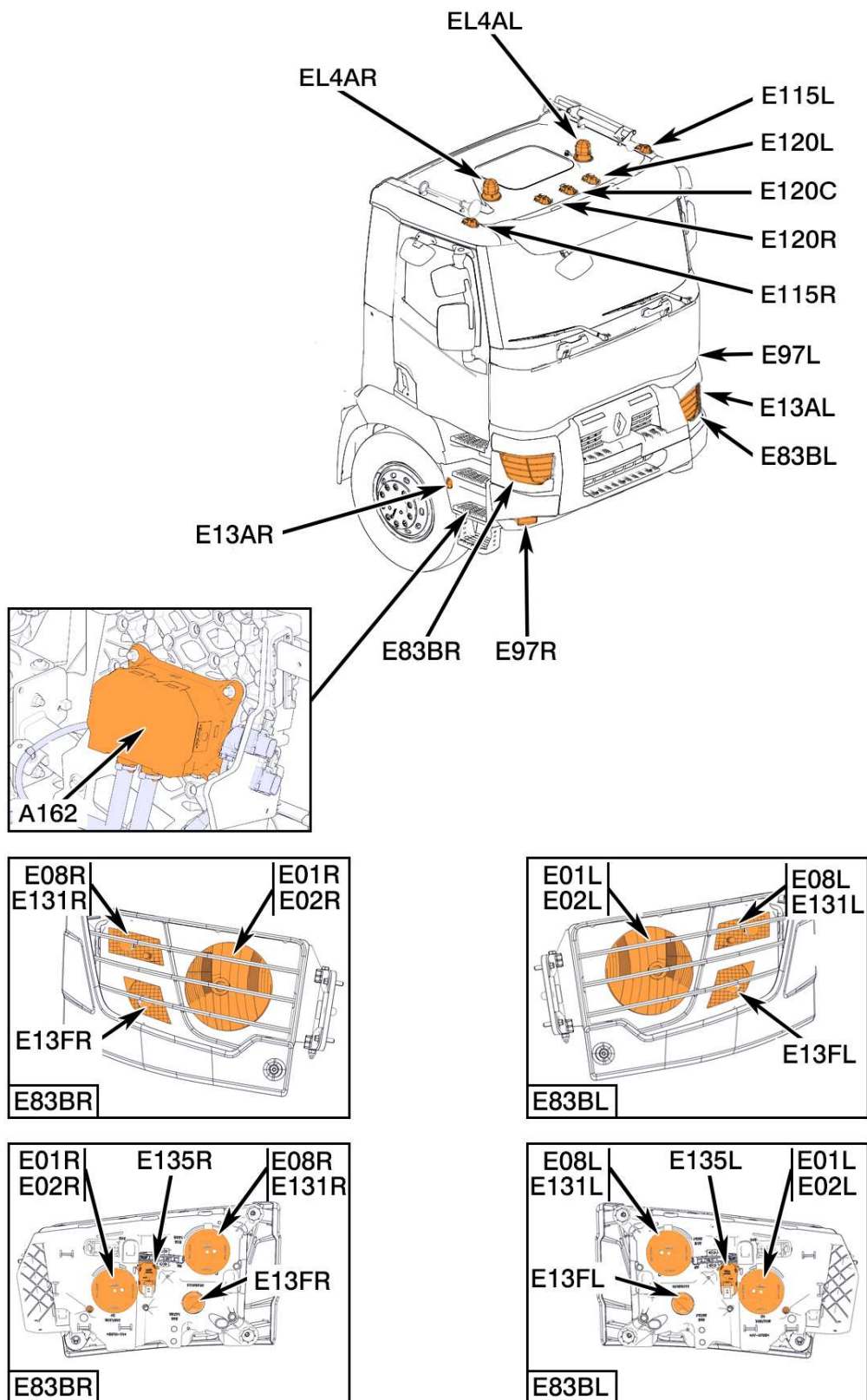
T3098753

External lighting management (3/4)

Key to devices

Code	Function description	Diagram page No.
E01L	Left-hand main beam headlamp	EA2/EA3
E01R	Right-hand main beam headlamp	EA2/EA3
E02L	Left-hand dipped beam headlamp	EA2/EA3
E02R	Right-hand dipped beam headlamp	EA2/EA3
E08L	Left-hand front parking lamp	EA2/EA3
E08R	Right-hand front parking lamp	EA2/EA3
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E13FL	Left-hand front direction indicator lamp	EA2/EA3
E13FR	Right-hand front direction indicator lamp	EA2/EA3
E83AL	LH light unit	EA2
E83AR	RH light unit	EA2
E97L	Fog driving light, LH	EA2/EA3
E97R	Fog driving light, RH	EA2/EA3
E115L	Left-hand marker light	EBJ
E115R	Right-hand marker light	EBJ
E120C	Central identification light on the roof	EBJ
E120L	Left-hand identification light on the roof	EBJ
E120R	Right-hand identification light on the roof	EBJ
E131L	Daytime running light - left-hand side	EA2/EA3
E131R	Daytime running light - right-hand side	EA2/EA3
M08L	Left-hand headlamp height adjustment motor	EA2
M08R	Right-hand headlamp height adjustment motor	EA2

External lighting management (4/4)



T3100035

External lighting management (4/4)

Key to devices

Code	Function description	Diagram page No.
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/GBP
E01L	Left-hand main beam headlamp	EA2/EA3
E01R	Right-hand main beam headlamp	EA2/EA3
E02L	Left-hand dipped beam headlamp	EA2/EA3
E02R	Right-hand dipped beam headlamp	EA2/EA3
E08L	Left-hand front parking lamp	EA2/EA3
E08R	Right-hand front parking lamp	EA2/EA3
E13AL	Left-hand side direction indicator light	EA2/EA3
E13AR	Right-hand side direction indicator light	EA2/EA3
E13FL	Left-hand front direction indicator lamp	EA2/EA3
E13FR	Right-hand front direction indicator lamp	EA2/EA3
E83BL	Left-hand headlamp insert	EA3
E83BR	Right-hand headlamp insert	EA3
E97L	Fog driving light, LH	EA2/EA3
E97R	Fog driving light, RH	EA2/EA3
E115L	Left-hand marker light	EBJ
E115R	Right-hand marker light	EBJ
E120C	Central identification light on the roof	EBJ
E120L	Left-hand identification light on the roof	EBJ
E120R	Right-hand identification light on the roof	EBJ
E131L	Daytime running light - left-hand side	EA2/EA3
E131R	Daytime running light - right-hand side	EA2/EA3
E135L	Left-hand headlamp height adjustment motor	EA3
E135R	Right-hand headlamp height adjustment motor	EA3
EL4AL	Left-hand rotary beacon on roof	JAG
EL4AR	Right-hand rotary beacon on roof	JAG

Lighting and Signalling - Horn



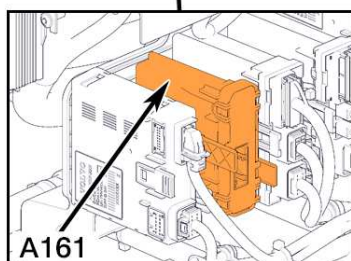
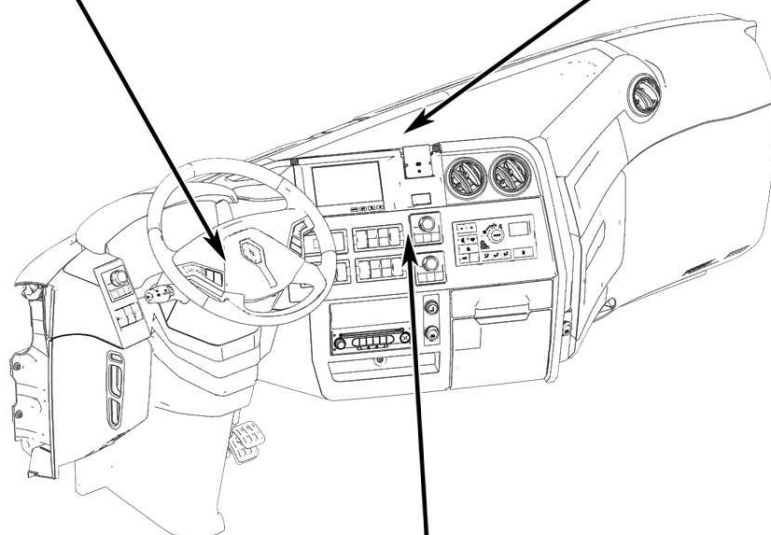
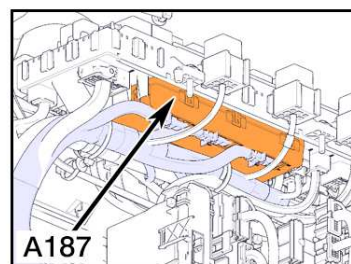
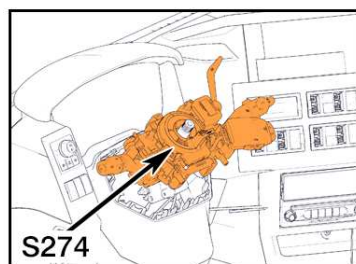
T3098758

Lighting and Signalling - Horn

Key to devices

Code	Function description	Diagram page No.
A160	Cab information management control unit (CIOM)	DA6/EFG/GF1
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/GBP
H09	Electric horn	EFG
S274	Steering column-mounted controls	GF2
Y72	Air horn	EFG

Washing and wiping of windows (1/2)



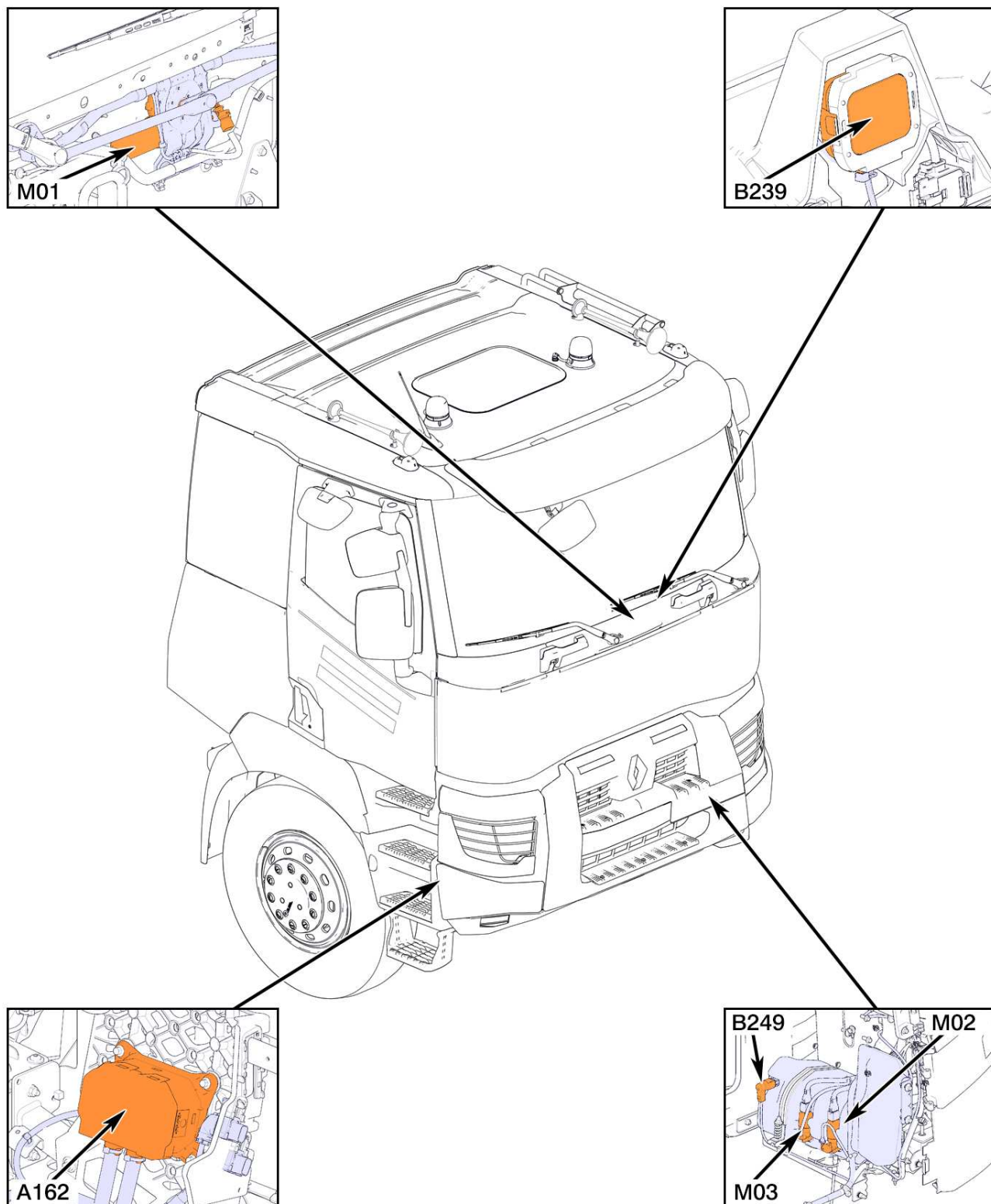
T3101471

Washing and wiping of windows (1/2)

Key to devices

Code	Function description	Diagram page No.
A161	Man/machine interface management control unit (HMIIOM)	CAK/GF2
A187	Main vehicle management control unit (VMCU)	BA3/BB1/C1K/C1L/CA3/CB1/ CBK/CD5/DA7/DA8/EBJ/FA1/ GA1/GC1/GDA/GEA/GEB/ GEQ/HAA/JAD/JAF/JAG
S274	Steering column-mounted controls	GF2

Washing and wiping of windows (2/2)



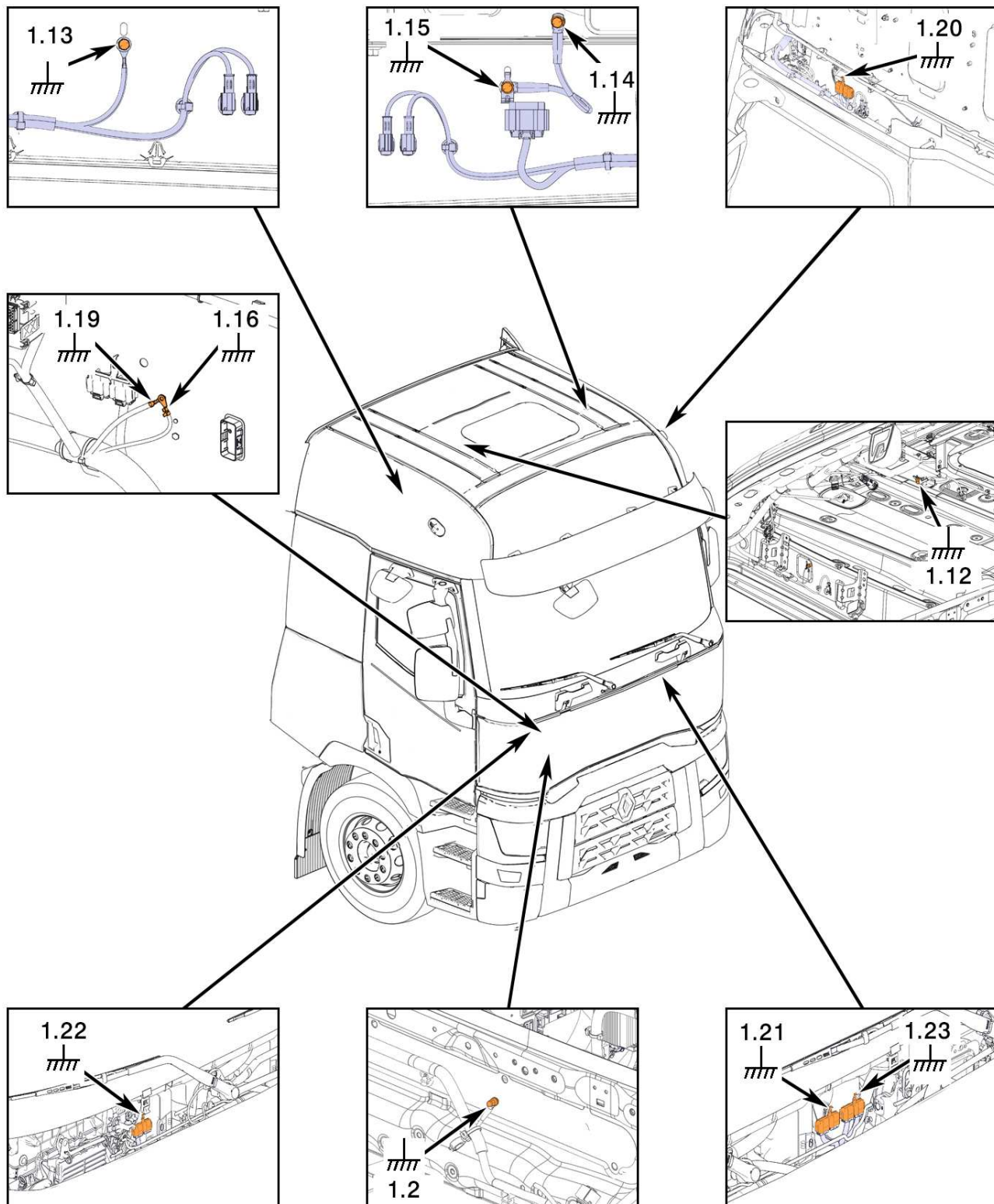
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Washing and wiping of windows (2/2)

Key to devices

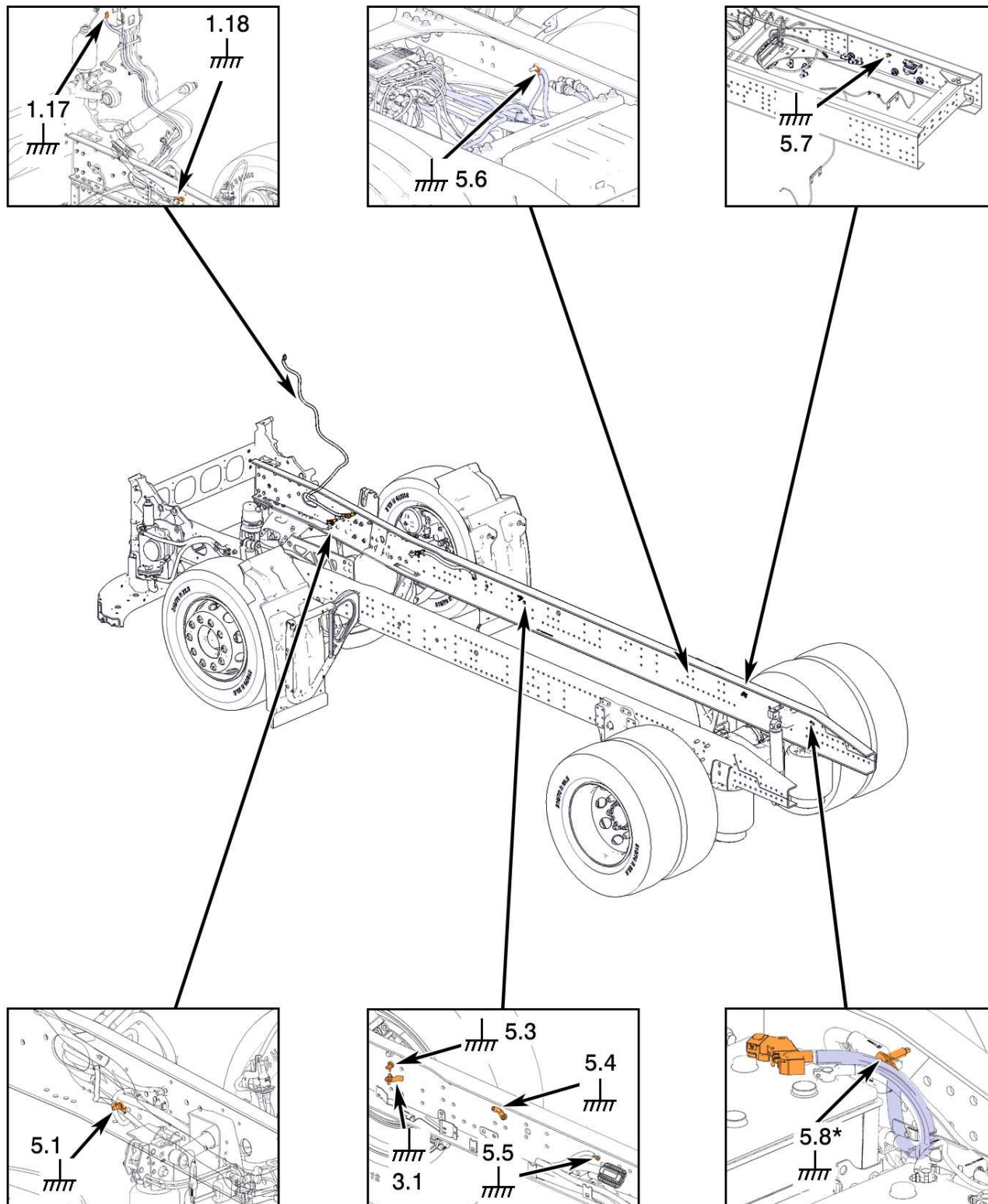
Code	Function description	Diagram page No.
A162	Front chassis area information management control unit (FCIOM)	EA2/EA3/EFG/FA1/GA1/GBP
B239	Rain and light detection sensor assembly	FA1
B249	Screen wash level sensor	FA1
M01	Windscreen wiper motor	FA1
M02	Windscreen washer pump motor	FA1
M03	Headlamp washer pump motor	FA1

Cab earth



T3098762

Chassis earth

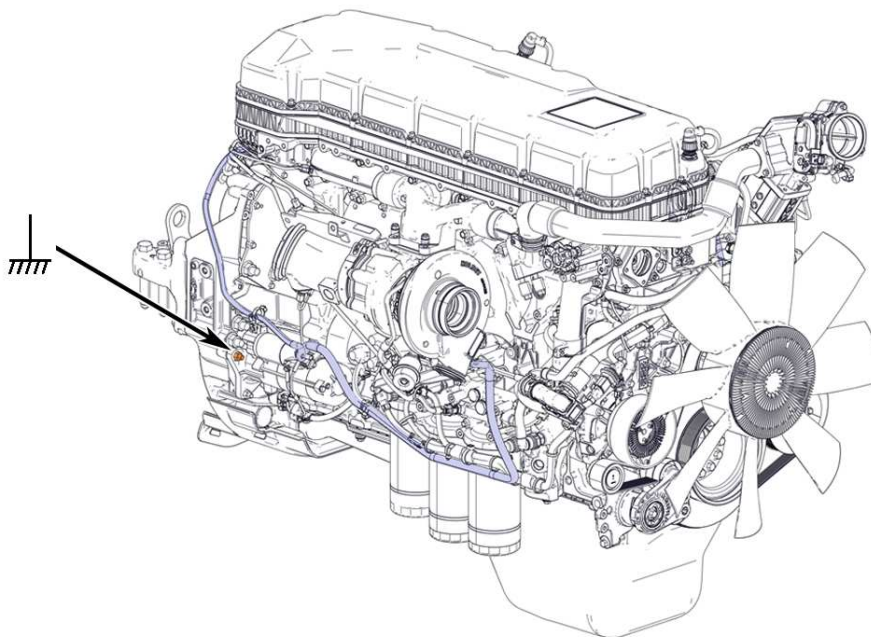
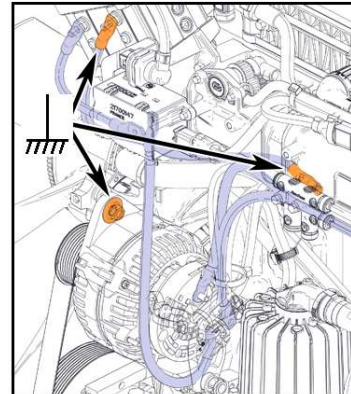
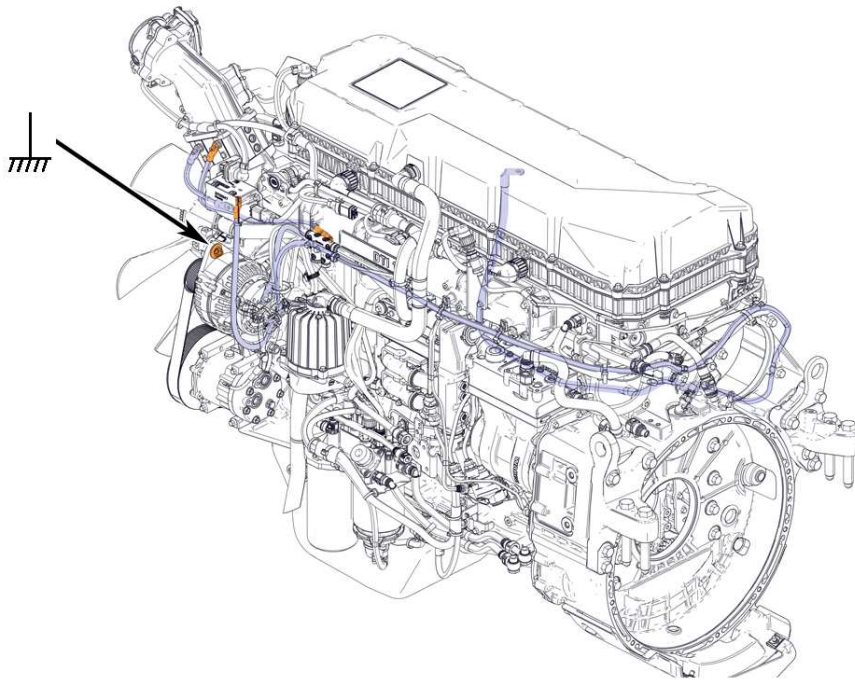


T3098763

Chassis earth

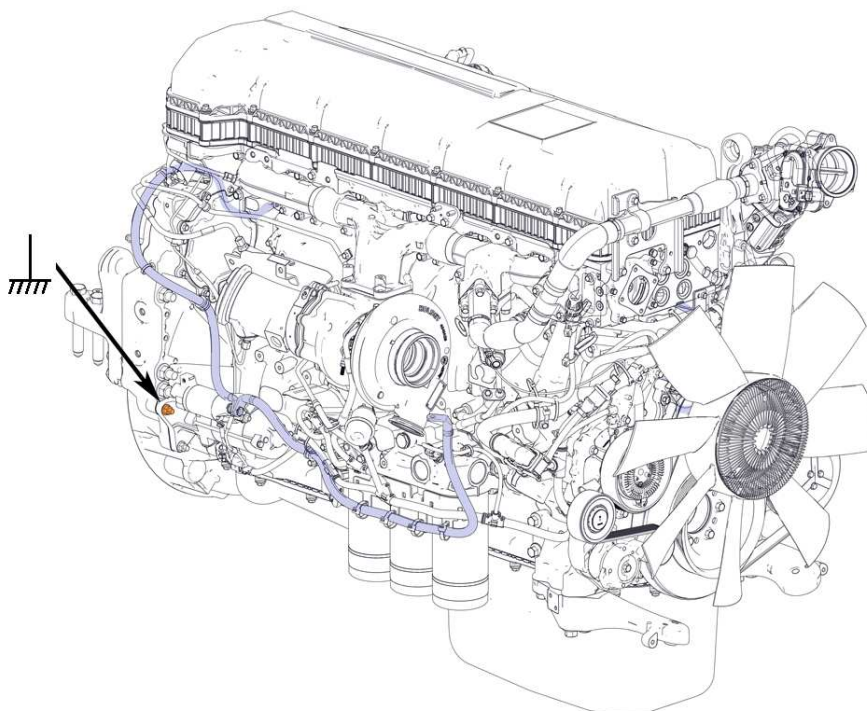
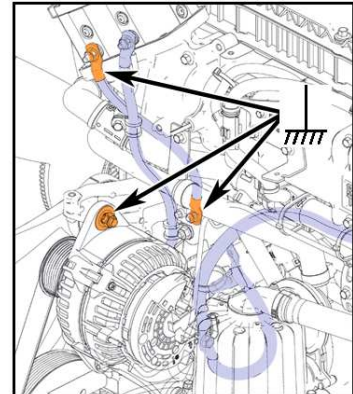
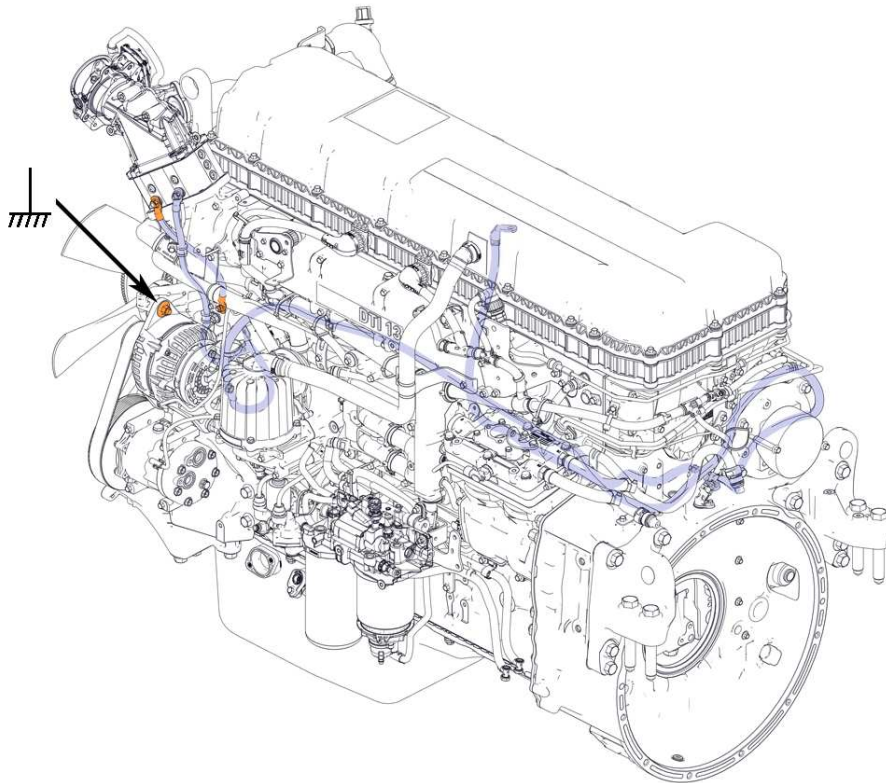
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11-litre engine earths



T3098827

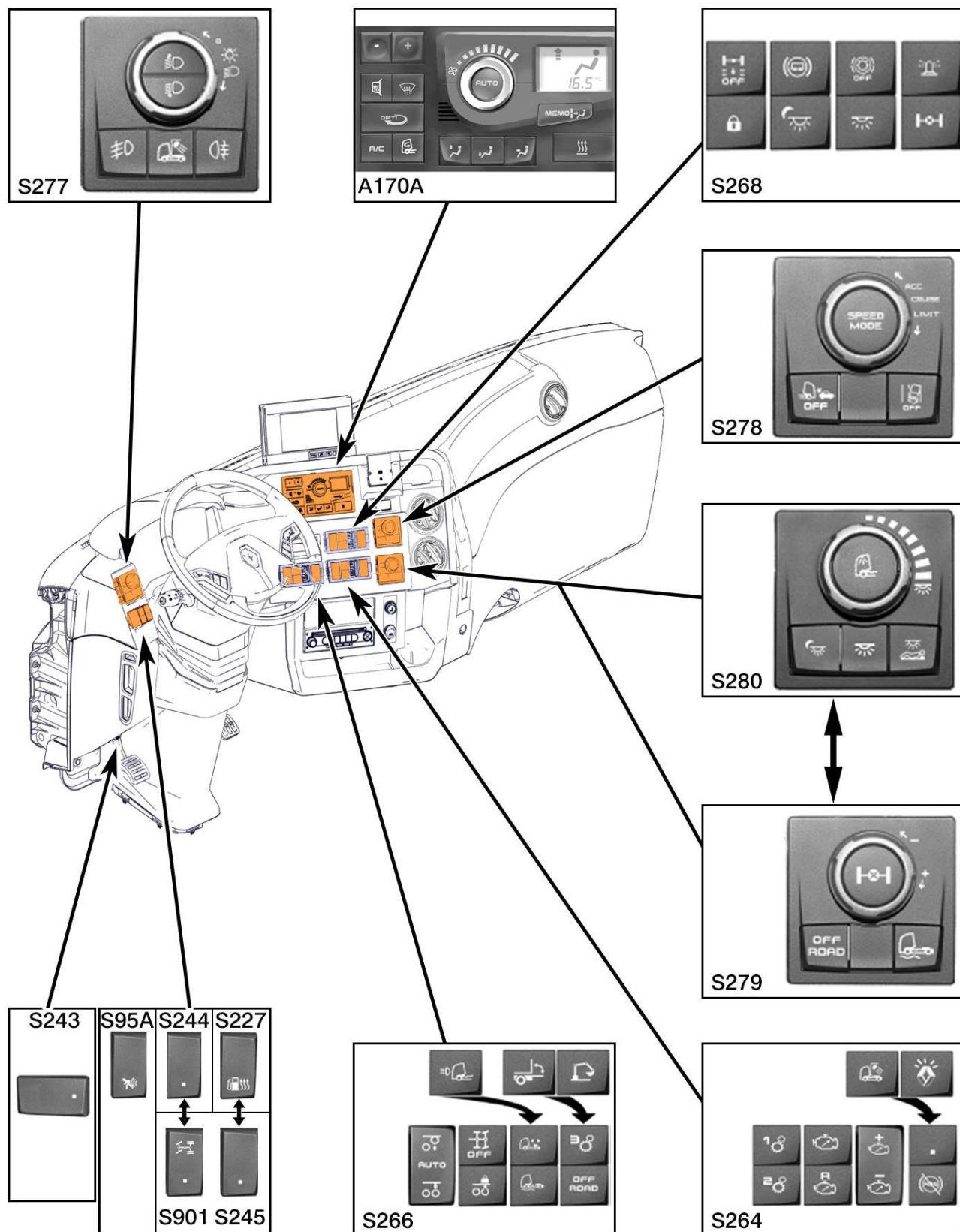
13-litre engine earths



T3098767

LAYOUT OF CONTROLS

Layout of switches on dashboard



T3120361

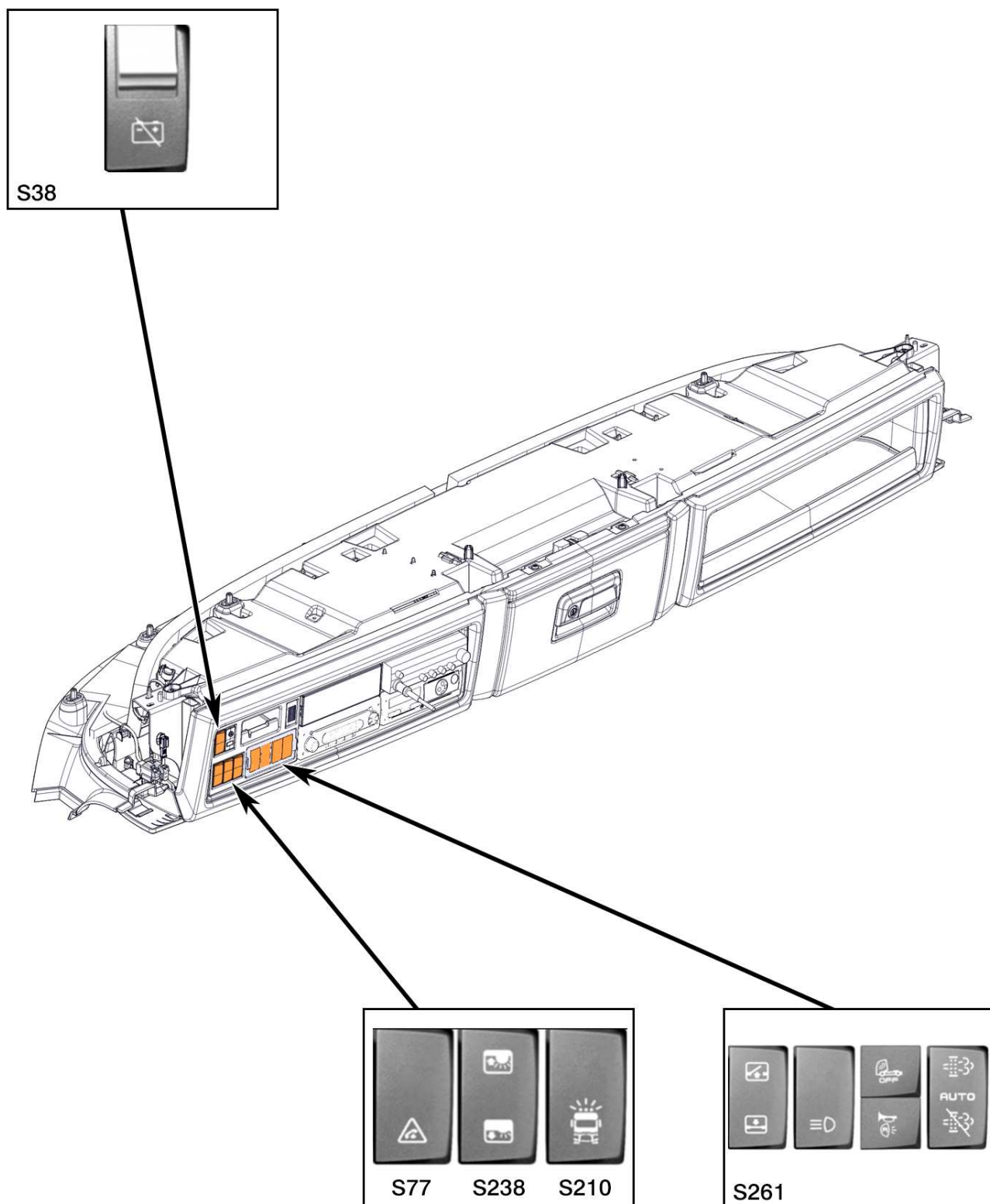
Layout of switches on dashboard

Key to devices

Code	Function description	Diagram page No.
S95A	Alarm panic button control	DAA
S227	Fuel heating control	CCL
S243	Body builder pre-equipment control no. 1	JAF
S244	Body builder pre-equipment control no. 2	JAF
S245	Body builder pre-equipment control no. 3	JAF
S264	Repositionable control unit (group 1)	GF1
S266	Repositionable control unit (group 2)	GF1
S268	Repositionable control unit (group 3)	GF1
S277	External lighting control unit	GF1
S278	Cruise control control assembly	GF1
S279	Differential lock selector control unit	GF1
S280	Cab lighting control	GF1
S901	OptiTrack system on/off control	CDV

Note: The **S264 - S266 - S268 - S261** switch panel and the switches it comprises are interchangeable. The locations shown in the manual are the switches installed as standard.

Layout of switches on overhead ledge



T3098703

Layout of switches on overhead ledge

Key to devices

Code	Function description	Diagram page No.
S38	Vehicle emergency stop control	BA3
S77	Emergency call control	CBT
S210	Identification lights on roof control	EBJ
S238	Passenger side front curtain control	GDA
S261	Repositionable control unit (group 5)	GF1

Note: The **S264 - S266 - S268 - S261** switch panel and the switches it comprises are interchangeable. The locations shown in the manual are the switches installed as standard.

ELECTRICAL DISTRIBUTION

Electrical distribution - Contents

Table of fuses on electrical distribution box

See page 514

Table of relays on electrical distribution box

See page 520

Table of fuses outside electrical distribution box

See page 525

Table of fuses for the OptiTrack system

See page 527

Table of relays outside electrical distribution box

See page 529

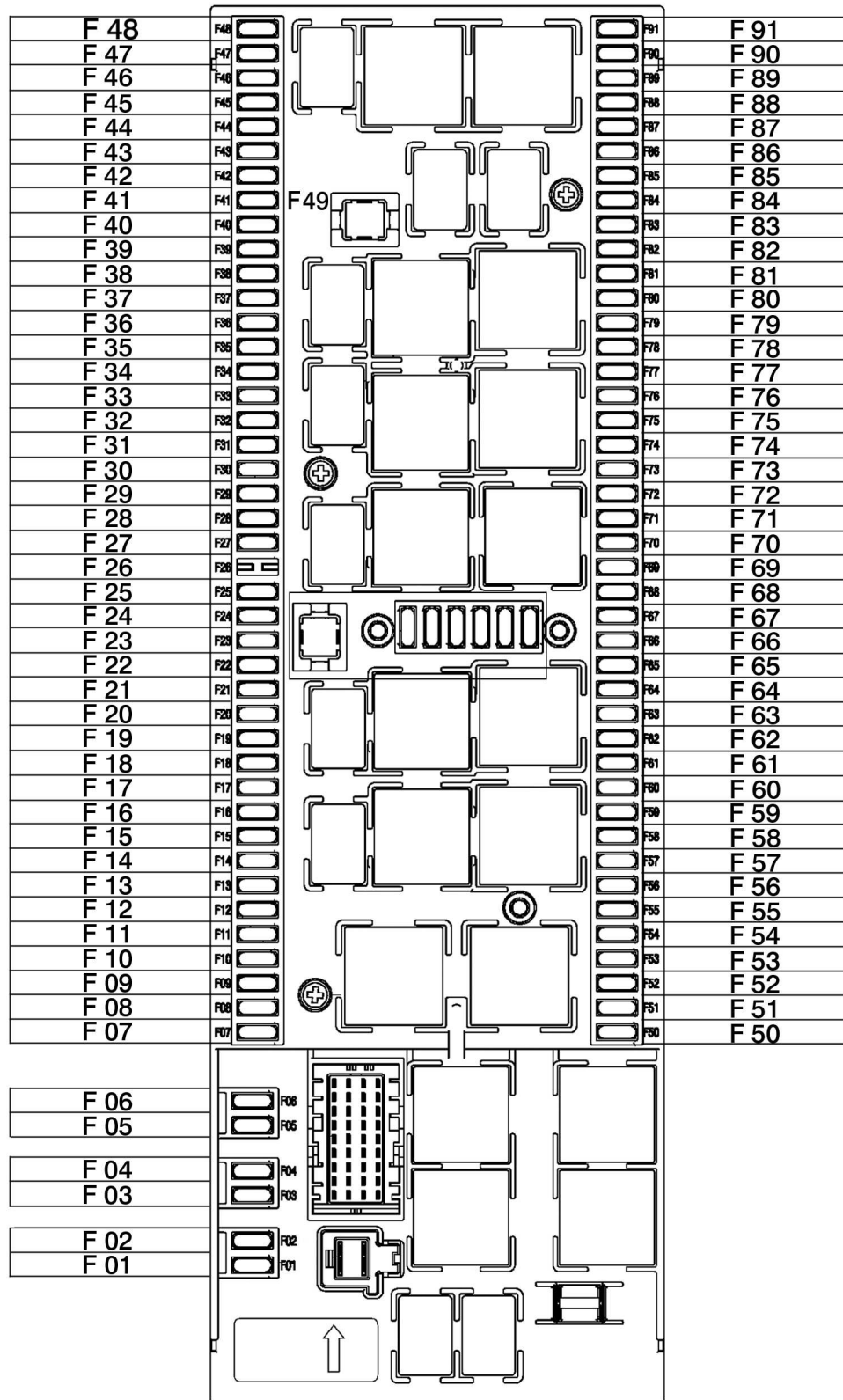
Electrical distribution box - Face A connectors

See page 531

Electrical distribution box - Face B connectors

See page 535

Table of fuses on electrical distribution box



T3100070

Table of fuses on electrical distribution box

Key to devices

Fuse	Int. (A)	Folio (Fuse)	Code	Function description	Folio (Code)
F01	10	GEA/GEB	X07	12 volt power supply socket	GEA/GEB
F02	-	-	-	Fuse not used	-
F03	10	GEA/GEB	A48	Television set	GE2
F03	10	GEA/GEB	X163	Docking station for mobile telephones	GEA/GEB
F03	10	GEA/GEB	XALD09	Available power supply (Telephone pre-equipment)	GEA/GEB
F03	10	GEB	A07	Radio set	GDH
F04	15	JAF	X03	15-pin trailer socket	HBD/HBE/HBF
F04	15	JAF	X03A	15-pin trailer socket	HBD/HBE/HBF
F04	15	JAF	X03_2	15-pin trailer socket, dual use	HBF
F04	15	JAF	X03B	15-pin trailer socket, dual use	HBF
F04	15	JAF	X05	Trailer connection (7-pin type 24 S)	HBD
F04	15	JAF	X05A	Trailer connection (7-pin type 24 S)	HBD
F05	15	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
F06	5	JAF	BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
F07	30	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
F07	30	JAF	M901	OptiTrack system oil cooling fan	CDV
F07	30	JAF	X03	15-pin trailer socket	HBD/HBE/HBF
F07	30	JAF	X03A	15-pin trailer socket	HBD/HBE/HBF
F07	30	JAF	X03_2	15-pin trailer socket, dual use	HBF
F07	30	JAF	X03B	15-pin trailer socket, dual use	HBF
F07	30	JAF	X05	Trailer connection (7-pin type 24 S)	HBD
F07	30	JAF	X05A	Trailer connection (7-pin type 24 S)	HBD
F08	20	JAF	A937	OptiTrack system management ECU	CDV
F08	20	JAF	BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
F09	-	-	-	Fuse not used	-
F10	15	GEQ	X107	24 volt power supply socket	GEQ
F11	15	JAG	XALD01	Available power supply (additional external lighting on roof)	JAG
F11	15	JAG	XALD02	Available power supply (additional front panel external lighting)	JAG
F12	15	JAG	EL4AL	Left-hand rotary beacon on roof	JAG
F12	15	JAG	EL4AR	Right-hand rotary beacon on roof	JAG
F13	15	GC1	A06	Driver's heated seat unit	GC1
F13	15	GC1	D03	Vehicle hour meter	HAA

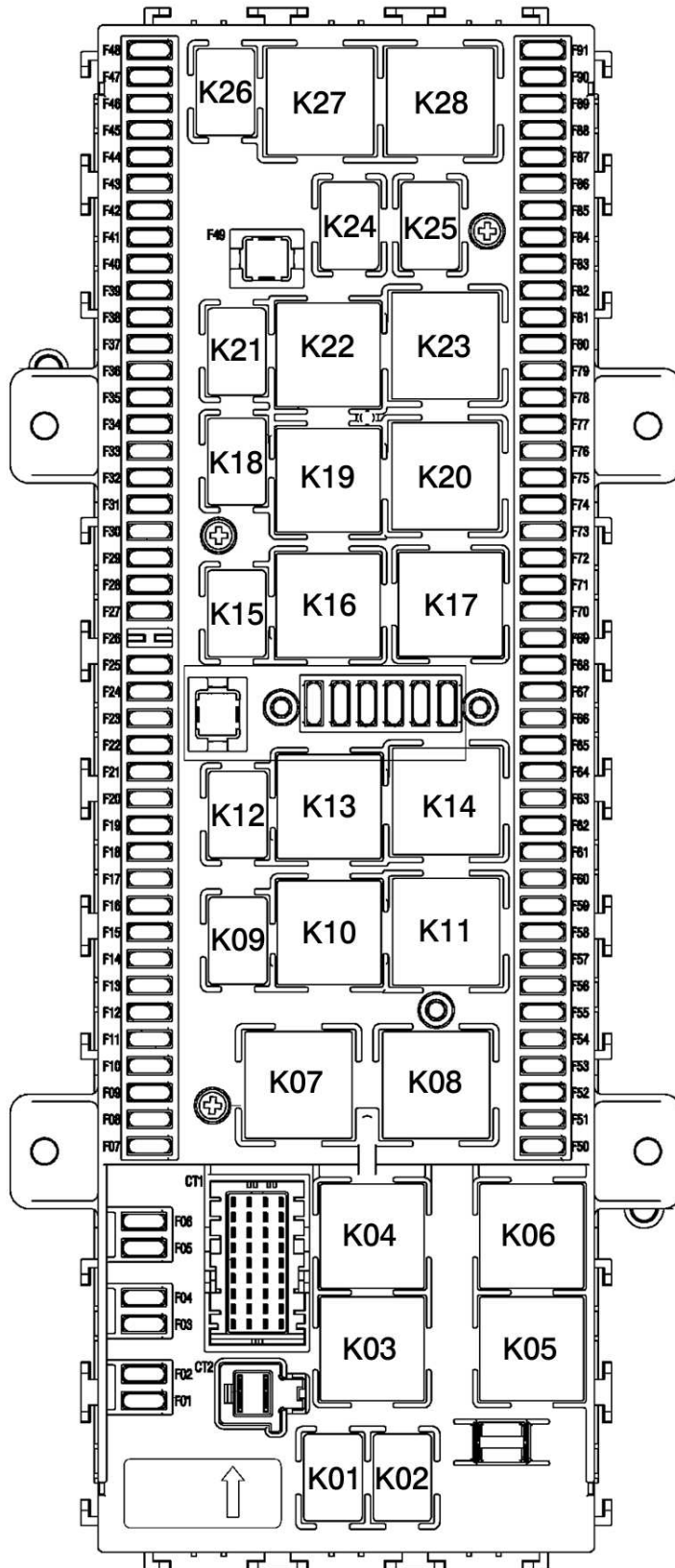
F13	15	GC1	K94B	Television inhibitor relay	GE2
F13	15	GC1	M12	Heated seat fan motor	GC1
F13	15	GC1	R03	Driver's heated seat resistor	GC1
F14	-	-	-	Fuse not used	-
F15	10	JAG	XALD01	Available power supply (additional external lighting on roof)	JAG
F15	10	JAG	XALD02	Available power supply (additional front panel external lighting)	JAG
F16	-	-	-	Fuse not used	-
F17	-	-	-	Fuse not used	-
F18	3	CAK	A161	Man/machine interface management control unit (HMI/OM)	CAK
F19	15	JAC	A36	Body builder pre-equipment management control unit (BBM)	JAC
F20	20	DA8	A165R	Right-hand door information management control unit (DDM/PDM)	DA8
F20	20	DA8	M44R	Right-hand front door window lift motor with anti-pinch system	DA8
F21	3	CAK	A03A	Main information display	CAK
F22	5	GDA	M43A	Front panel motor	GDA
F23	3	CB1	A33	Tachograph	CB1
F24	3	CAK	A03A	Main information display	CAK
F25	3	CBK	A122	Remote payment system management control unit	CBK
F26	-	-	-	Fuse not used	-
F27	10	CA3	A187	Main vehicle management control unit (VMCU)	CA3
F28	20	CA3	A187	Main vehicle management control unit (VMCU)	CA3
F29	10	DA8	K138	Windscreen de-icing resistors power supply relay	GCB
F29	10	DA8	R02AR	Electric rear-view mirror, right-hand side	DA8
F30	10	DA7	R02AL	Electric rear-view mirror, left-hand side	DA7
F31	5	FJK	A26	Driving assist management control unit (DACU)	FJK
F31	5	FJL	A26B	Driving assist management control unit (DACU)	FJL
F32	10	CKL	A177	Air production management control unit (APM)	CKL
F33	-	-	-	Fuse not used	-
F34	5	JAG	EL3	Working area spotlight	JAG
F35	-	-	-	Fuse not used	-
F35	-	-	-	Fuse not used	-
F37	20	CF3	A21	Electronic braking system control unit (EBS)	CF3
F38	20	GBP	A34B	Air conditioning management control unit	GBP
F38	20	GBP	B332	Air blower regulator	GBP
F39	20	CCL	R46	Fuel heating resistor	CCL
F40	3	CB1	A33	Tachograph	CB1
F41	15	C1K	A14	Engine electronic control unit (EECU)	C1A/C1S
F41	15	C1L	A14	Engine electronic control unit (EECU)	C1C/C1U/ C1X

F42	15	C1K	A43	Engine fan speed regulator unit	C1B/C1R
F42	15	C1L	A43	Engine fan speed regulator unit	C1T
F42	15	C1L	M15	Electric fuel priming pump	C1T/C1U/ C1X
F42	15	C1L	Y109	Water pump electromagnetic clutch	C1T/C1U/ C1X
F42	15	C1L	Y111	Piston cooling solenoid valve	C1U/C1X
F43	10	C1K	A182	Diesel fuel primary filter dryer and heater unit	C1K
F43	10	C1K	A45	Fuel heating unit	C1A/C1S
F44	10	C1K	A45	Fuel heating unit	C1A/C1S
F44	10	C1K	Y37	Solenoid valve assembly for exhaust braking	C1A/C1S
F44	10	C1K	Y39	VTC engine brake solenoid valve	C1A/C1S
F44	10	C1K	Y109	Water pump electromagnetic clutch	C1S
F44	10	C1K	Y110	Oil cooling solenoid valve	C1A/C1S
F44	10	C1K	Y111	Piston cooling solenoid valve	C1A/C1S
F44	10	C1L	Y37	Solenoid valve assembly for exhaust braking	C1U/C1X
F44	10	C1L	Y39	VTC engine brake solenoid valve	C1C/C1U/ C1X
F44	10	C1L	Y110	Oil cooling solenoid valve	C1C/C1U/ C1X
F44	10	C1L	Y151	Solenoid valve assembly for exhaust braking	C1C
F45	30	HAA	M11	Cab tilt motor	HAA
F46	20	HBD/HBE/ HBF	X02	7-pin ABS/EBS trailer socket	HBD/HBE/ HBF
F46	20	HBD/HBE/ HBF	X02A	7-pin ABS/EBS trailer socket	HBD/HBE/ HBF
F46	20	HBD/HBE/ HBF	X02_2	7-pin ABS/EBS trailer socket, dual use	HBF
F46	20	HBD/HBE/ HBF	X02B	7-pin ABS/EBS trailer socket, dual use	HBF
F47	-	-	-	Fuse not used	-
F48	30	GBB/GBC	A186	Night time air conditioning ECU	GBB/GBC
F49	50	GEQ	A937	OptiTrack system management ECU	CDV
F49	50	GEQ	R55	Microwave oven	GEQ
F50	30	GEQ	R11	Electric coffee maker	GEQ
F51	20	FA1	K05	Windscreen wiper motor power supply relay	FA1
F51	20	FA1	K06	Wiper motor high or low speed selector relay	FA1
F51	20	FA1	M01	Windscreen wiper motor	FA1
F52	15	GDA	K03	Sunroof motor power supply relay no. 1	GDA
F52	15	GDA	K04	Sunroof motor power supply relay no. 2	GDA
F52	15	GDA	M51A	Sunroof electric motor	GDA
F53	5	DAE	A169	Video control unit (VS)	DAE
F54	-	-	-	Fuse not used	-
F55	3	DAA	A31	Vehicle anti-theft system ECU (AECU)	DAA

F56	10	GEA/GEB	XALD05	Available power supply (console accessories)	GEA/GEB
F57	10	GA1	E101L	Reading light, left-hand side	GA1
F57	10	GA1	E101R	Reading light, right-hand side	GA1
F57	10	GA1	E104	Light for storage compartment under bunk no. 1	GA1
F57	10	GA1	E105	Light for storage compartment under bunk no. 2	GA1
F57	10	GA1	E116L	Directional reading light, left-hand side	GA1
F57	10	GA1	E116R	Directional reading light, right-hand side	GA1
F57	10	GA1	E117C	Light for storage compartment in centre console	GA1
F57	10	GA1	E117L	Light for storage compartment in left-hand console	GA1
F57	10	GA1	E117R	Light for storage compartment in right-hand console	GA1
F58	15	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
F59	15	GEA	U29	24/12 V - 11 A voltage converter	GEA
F59	15	GEA	U33	24/12 V - 20 A voltage converter	GEA
F60	15	GEA	U30	24/12 V - 20 A voltage converter	GEA
F60	15	GEA/GEB	U34	24/12 V - 25 A voltage converter	GEA/GEB
F61	20	DA7	A165L	Left-hand door information management control unit (DDM/PDM)	DA7
F61	20	DA7	M44L	Left-hand front door window lift motor with anti-pinch system	DA7
F62	5	CA3	X43	Vehicle diagnostic socket (OBD)	CA3
F63	10	DA6	A160	Cab information management control unit (CIOM)	DA6
F64	15	GEQ	X105	24 volt power supply socket	GEQ
F65	15	GEQ	X106	24 volt power supply socket	GEQ
F66	3	CBT	A125	On-board management system interface control unit	CBT
F66	3	CBT	A175	Additional telematics management control unit (TESP)	CBT
F67	15	GEQ	R04	Cigar lighter	GEQ
F68	15	JAD	A187	Main vehicle management control unit (VMCU)	JAD
F69	15	GB1	A211	Air/air independent heater	GB1
F69	15	GBA	E128	Air/water independent heater	GBA
F70	20	CD5	A13A	Automated manual transmission management control unit	CD5
F70	20	CD5	A13B	Automated manual transmission management control unit	CD5
F71	15	FA1	M03	Headlamp washer pump motor	FA1
F72	-	-	-	Fuse not used	-
F73	30	JAF	B24A	Lift-up axle air spring air pressure sensor	CKC
F73	30	JAF	BBEC2A	Central electrical distribution box for body builder pre-equipment connector no. 2	JAF
F73	30	JAF	BOIL	Controlled axle oil reservoir level sensor	CKC
F73	30	JAF	BTP	Controlled axle oil temperature sensor	CKC
F74	20	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
F74	20	JAF	ASHO	OptiTrack hydraulic system information display	CDV

F74	20	JAF	B905	OptiTrack system diagnostic socket	CDV
F74	20	JAF	K902	OptiTrack system after ignition current supply relay no. 1	CDV
F74	20	JAF	K903	OptiTrack system after ignition current supply relay no. 2	CDV
F75	10	GEQ	A189	Refrigerator	GEQ
F75	10	GEQ	K02	Cooling unit power supply relay	GEQ
F76	15	JAG	BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
F76	15	JAG	X03	15-pin trailer socket	HBD/HBE/HBF
F76	15	JAG	X03A	15-pin trailer socket	HBD/HBE/HBF
F76	15	JAG	X03_2	15-pin trailer socket, dual use	HBF
F76	15	JAG	X03B	15-pin trailer socket, dual use	HBF
F76	15	JAG	X05	Trailer connection (7-pin type 24 S)	HBD
F76	15	JAG	X05A	Trailer connection (7-pin type 24 S)	HBD
F77	-	-	-	Fuse not used	-
F78	-	-	-	Fuse not used	-
F79	-	-	-	Fuse not used	-
F80	-	-	-	Fuse not used	-
F81	5	CG1	A213	Tyre Pressure Monitoring System (TPMS) information display	CG1
F82	-	-	-	Fuse not used	-
F83	-	-	-	Fuse not used	-
F84	-	-	-	Fuse not used	-
F85	3	CBK	X26	Onboard management pre-arrangement (ECU)	CBK
F86	-	-	-	Fuse not used	-
F87	-	-	-	Fuse not used	-
F88	5	GEQ	A132	Vehicle immobiliser alcolock control unit	DAK
F88	5	GBB/GBC/GEQ	K95	Cab master power supply control relay	GBB/GBC/GEQ
F89	-	-	-	Fuse not used	-
F90	-	-	-	Fuse not used	-
F91	10	CBK	X26	Onboard management pre-arrangement (ECU)	CBK

Table of relays on electrical distribution box



T3100071

Table of relays on electrical distribution box

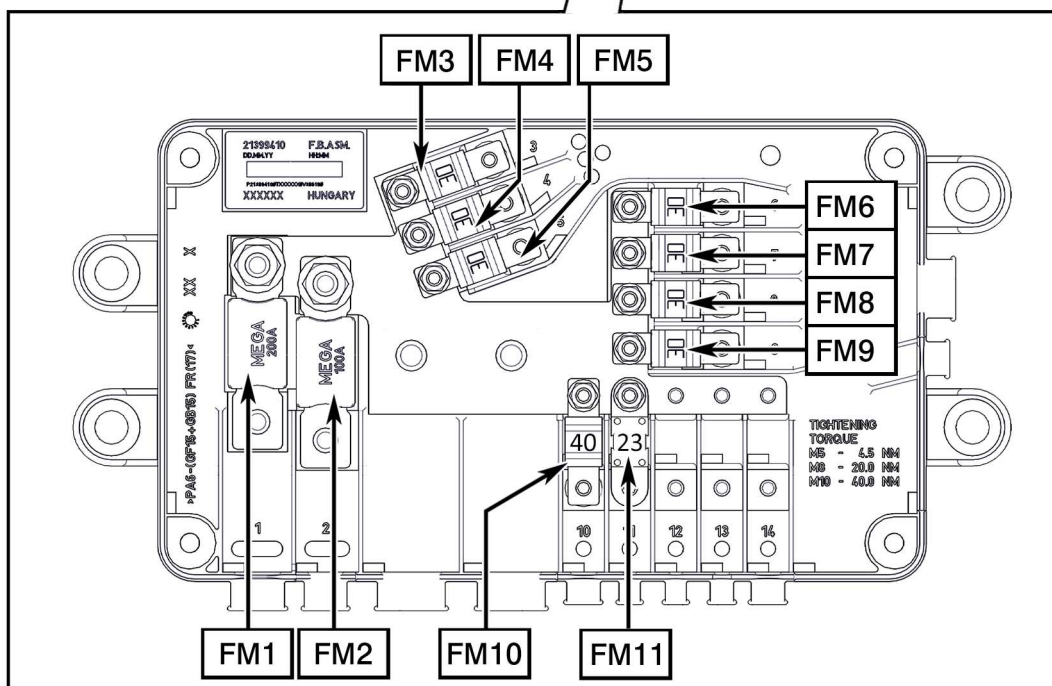
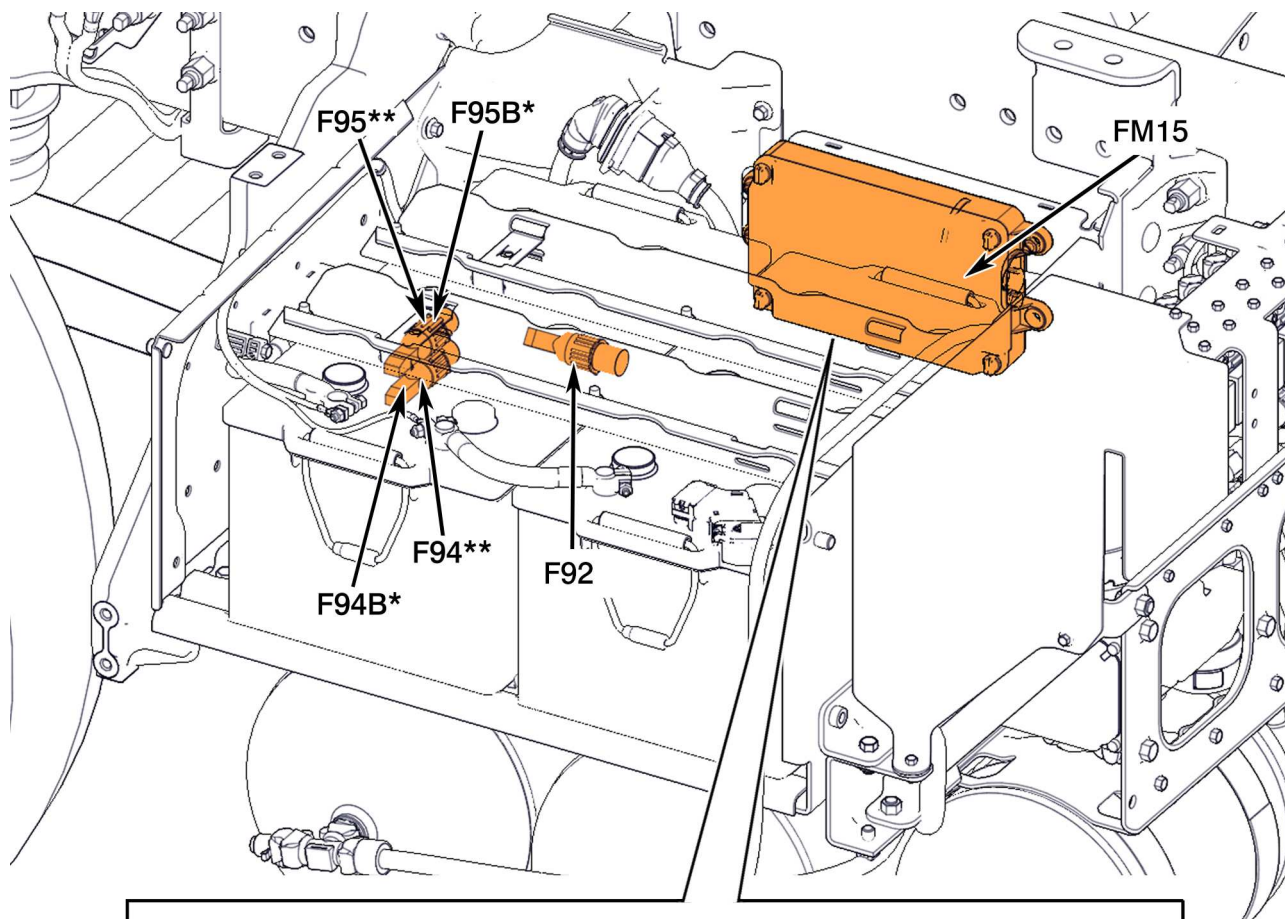
Key to devices

Relay	Int. (A)	Folio (Relay)	Code	Function description	Folio (Code)
K01	-	-	-	Relay not used	-
K02	10	GEQ	A189	Refrigerator	GEQ
K03	20	GDA	M51A	Sunroof electric motor	GDA
K04	20	GDA	M51A	Sunroof electric motor	GDA
K05	20	FA1	M01	Windscreen wiper motor	FA1
K06	20	FA1	M01	Windscreen wiper motor	FA1
K07	40	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
K07	40	JAF	A937	OptiTrack system management ECU	CDV
K07	40	JAF	BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
K07	40	JAF	M901	OptiTrack system oil cooling fan	CDV
K07	40	JAF	X03	15-pin trailer socket	HBD/HBE/HBF
K07	40	JAF	X03A	15-pin trailer socket	HBD/HBE/HBF
K07	40	JAF	X03_2	15-pin trailer socket, dual use	HBF
K07	40	JAF	X03B	15-pin trailer socket, dual use	HBF
K07	40	JAF	X05	Trailer connection (7-pin type 24 S)	HBD
K07	40	JAF	X05A	Trailer connection (7-pin type 24 S)	HBD
K08	40	GEQ	R11	Electric coffee maker	GEQ
K09	10	GC1	A06	Driver's heated seat unit	GC1
K09	10	GC1	D03	Vehicle hour meter	HAA
K09	10	GC1	K94B	Television inhibitor relay	GE2
K09	10	GC1	M12	Heated seat fan motor	GC1
K09	10	GC1	R03	Driver's heated seat resistor	GC1
K10	20	JAG	XALD01	Available power supply (additional external lighting on roof)	JAG
K10	20	JAG	XALD02	Available power supply (additional front panel external lighting)	JAG
K11	40	GEA/GEB	BB3	Body builder pre-equipment connector no. 3	JAF
K11	40	GEA/GEB	E101L	Reading light, left-hand side	GA1
K11	40	GEA/GEB	E101R	Reading light, right-hand side	GA1
K11	40	GEA/GEB	E104	Light for storage compartment under bunk no. 1	GA1
K11	40	GEA/GEB	E105	Light for storage compartment under bunk no. 2	GA1
K11	40	GEA/GEB	E116L	Directional reading light, left-hand side	GA1
K11	40	GEA/GEB	E116R	Directional reading light, right-hand side	GA1
K11	40	GEA/GEB	E117C	Light for storage compartment in centre console	GA1
K11	40	GEA/GEB	E117L	Light for storage compartment in left-hand console	GA1
K11	40	GEA/GEB	E117R	Light for storage compartment in right-hand console	GA1

K11	40	GEA	U29	24/12 V - 11 A voltage converter	GEA
K11	40	GEA	U30	24/12 V - 20 A voltage converter	GEA
K11	40	GEA	U33	24/12 V - 20 A voltage converter	GEA
K11	40	GEA/GEB	U34	24/12 V - 25 A voltage converter	GEA/GEB
K11	40	GEA/GEB	XALD05	Available power supply (console accessories)	GEA/GEB
K12	10	JAG	XALD01	Available power supply (additional external lighting on roof)	JAG
K12	10	JAG	XALD02	Available power supply (additional front panel external lighting)	JAG
K13	20	JAG	EL4AL	Left-hand rotary beacon on roof	JAG
K13	20	JAG	EL4AR	Right-hand rotary beacon on roof	JAG
K13	20	JAG	XALD01	Available power supply (additional external lighting on roof)	JAG
K14	40	GEQ	A132	Vehicle immobiliser alcolock control unit	DAK
K14	40	GEQ	K95	Cab master power supply control relay	GEQ
K14	40	GEQ	R04	Cigar lighter	GEQ
K14	40	GEQ	X105	24 volt power supply socket	GEQ
K14	40	GEQ	X106	24 volt power supply socket	GEQ
K14	40	GEQ	X107	24 volt power supply socket	GEQ
K14	40	GEQ	XALD12	Available power supply (breathalyser pre-equipment)	DAK
K15	-	-	-	Relay not used	-
K16	20	FA1	M03	Headlamp washer pump motor	FA1
K17	20	CD5	A13A	Automated manual transmission management control unit	CD5
K17	20	CD5	A13B	Automated manual transmission management control unit	CD5
K18	-	-	-	Relay not used	-
K19	20	JAG	BBEC1A	Central electrical distribution box for body builder pre-equipment connector no. 1	JAF
K19	20	JAG	X03	15-pin trailer socket	HBD/HBE/HBF
K19	20	JAG	X03A	15-pin trailer socket	HBD/HBE/HBF
K19	20	JAG	X03_2	15-pin trailer socket, dual use	HBF
K19	20	JAG	X03B	15-pin trailer socket, dual use	HBF
K19	20	JAG	X05	Trailer connection (7-pin type 24 S)	HBD
K19	20	JAG	X05A	Trailer connection (7-pin type 24 S)	HBD
K20	40	JAF	A937	OptiTrack system management ECU	CDV
K20	40	JAF	ASHO	OptiTrack hydraulic system information display	CDV
K20	40	JAF	B24A	Lift-up axle air spring air pressure sensor	CKC
K20	40	JAF	B905	OptiTrack system diagnostic socket	CDV
K20	40	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
K20	40	JAF	BBEC2A	Central electrical distribution box for body builder pre-equipment connector no. 2	JAF

K20	40	JAF	BOIL	Controlled axle oil reservoir level sensor	CKC
K20	40	JAF	BTP	Controlled axle oil temperature sensor	CKC
K20	40	JAF	K902	OptiTrack system after ignition current supply relay no. 1	CDV
K20	40	JAF	K903	OptiTrack system after ignition current supply relay no. 2	CDV
K21	10	DA7/DA8	R02AL	Electric rear-view mirror, left-hand side	DA7
K21	10	DA7/DA8	R02AR	Electric rear-view mirror, right-hand side	DA8
K22	20	CBK	A213	Tyre Pressure Monitoring System (TPMS) information display	CG1
K22	20	CBK	X26	Onboard management pre-arrangement (ECU)	CBK
K23	-	-	-	Relay not used	-
K24	-	-	-	Relay not used	-
K25	-	-	-	Relay not used	-
K26	-	-	-	Relay not used	-
K27	40	C1K	A14	Engine electronic control unit (EECU)	C1A/C1S
K27	40	C1L	A14	Engine electronic control unit (EECU)	C1C/C1U/ C1X
K27	40	C1K/C1L	A33	Tachograph	CB1
K27	40	C1K	A43	Engine fan speed regulator unit	C1B/C1R
K27	40	C1L	A43	Engine fan speed regulator unit	C1T
K27	40	C1L	M15	Electric fuel priming pump	C1T/C1U/ C1X
K27	40	C1L	Y109	Water pump electromagnetic clutch	C1T/C1U/ C1X
K27	40	C1L	Y111	Piston cooling solenoid valve	C1U/C1X
K27	40	C1K	A182	Diesel fuel primary filter dryer and heater unit	C1K
K27	40	C1K	A45	Fuel heating unit	C1A/C1S
K27	40	C1K	Y37	Solenoid valve assembly for exhaust braking	C1A/C1S
K27	40	C1K	Y38	Dryer bleed solenoid valve	C1A/C1S
K27	40	C1K	Y39	VTC engine brake solenoid valve	C1A/C1S
K27	40	C1K	Y109	Water pump electromagnetic clutch	C1S
K27	40	C1K	Y110	Oil cooling solenoid valve	C1A/C1S
K27	40	C1K	Y111	Piston cooling solenoid valve	C1A/C1S
K27	40	C1L	Y37	Solenoid valve assembly for exhaust braking	C1U/C1X
K27	40	C1L	Y39	VTC engine brake solenoid valve	C1C/C1U/ C1X
K27	40	C1L	Y110	Oil cooling solenoid valve	C1C/C1U/ C1X
K27	40	C1L	Y151	Solenoid valve assembly for exhaust braking	C1C
K28	40	HAA	M11	Cab tilt motor	HAA

Table of fuses outside electrical distribution box



T3127428

Table of fuses outside electrical distribution box

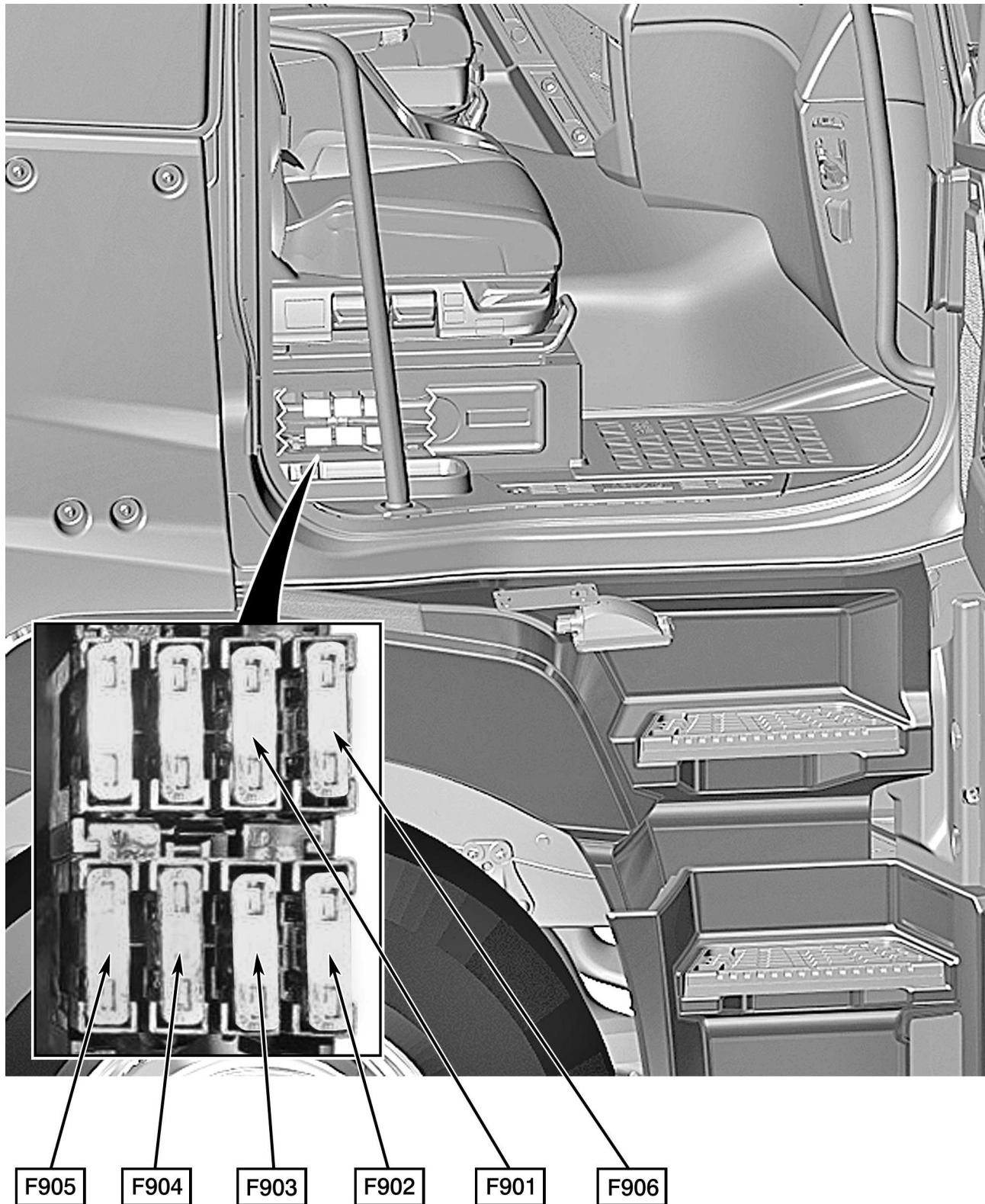
Key to devices

Fuse	Int. (A)	Folio (Fuse)	Code	Function description	Folio (Code)
F92	1	BA3	A33	Tachograph	CB1
F94	1	BA2	B250	24 V DC battery charge status sensor	BA2
F94B	1	BA2	B250	24 V DC battery charge status sensor	BA2
F95	1	BA2	B250	24 V DC battery charge status sensor	BA2
F95B	1	BA2	B250	24 V DC battery charge status sensor	BA2
FM1	200	BA2	M05	Axle lift hydraulic pump motor	CK1
FM2	100	BA2	A01	Electrical distribution box in cab	-
FM3	30	BA2	A162	Front chassis area information management control unit (FCIOM)	EA2/EA3
FM4	30	BA2	A163	Central chassis area information management control unit (CCIOM)	BAH
FM5	30	BA2	A164	Rear chassis area information management control unit (RCIOM)	EAA
FM6	30	BA2	A162	Front chassis area information management control unit (FCIOM)	EA2/EA3
FM7	30	BA2	A163	Central chassis area information management control unit (CCIOM)	BAH
FM8	30	BA2	A164	Rear chassis area information management control unit (RCIOM)	EAA
FM9	-	-	-	Fuse not used	-
FM10	40	BA2	R15	Windscreen de-icing resistor	GCB
FM11	23	BA2	A174	Exhaust gas after-treatment control module (ACM)	C2E
FM11	23	BA2	A174B	Exhaust gas after-treatment control module (ACM)	C2C
-	-	-	FM15	Power fuse box	BA2

* : without **ADR** equipment

** : with **ADR** equipment

Table of fuses for the OptiTrack system



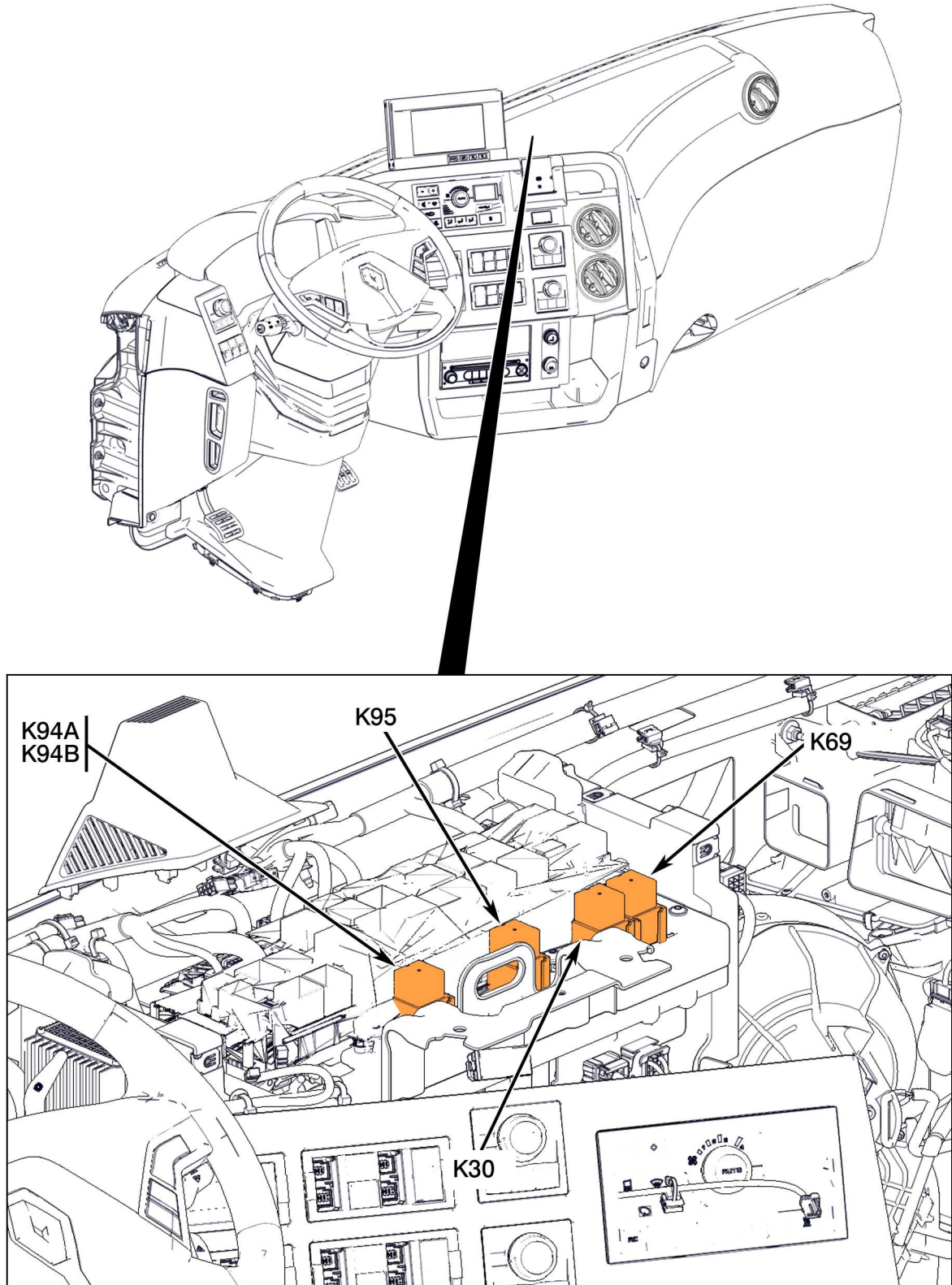
T3100139

Table of fuses for the OptiTrack system

Key to devices

Fuse	Int. (A)	Folio (Fuse)	Code	Function description	Folio (Code)
F901	5	CDV	ASHO	OptiTrack hydraulic system information display	CDV
F902	15	CDV	A937	OptiTrack system management ECU	CDV
F903	15	CDV	A937	OptiTrack system management ECU	CDV
F904	20	CDV	A937	OptiTrack system management ECU	CDV
F905	20	CDV	A937	OptiTrack system management ECU	CDV
F906	3	CDV	K902	OptiTrack system after ignition current supply relay no. 1	CDV
F906	3	CDV	K903	OptiTrack system after ignition current supply relay no. 2	CDV

Table of relays outside electrical distribution box



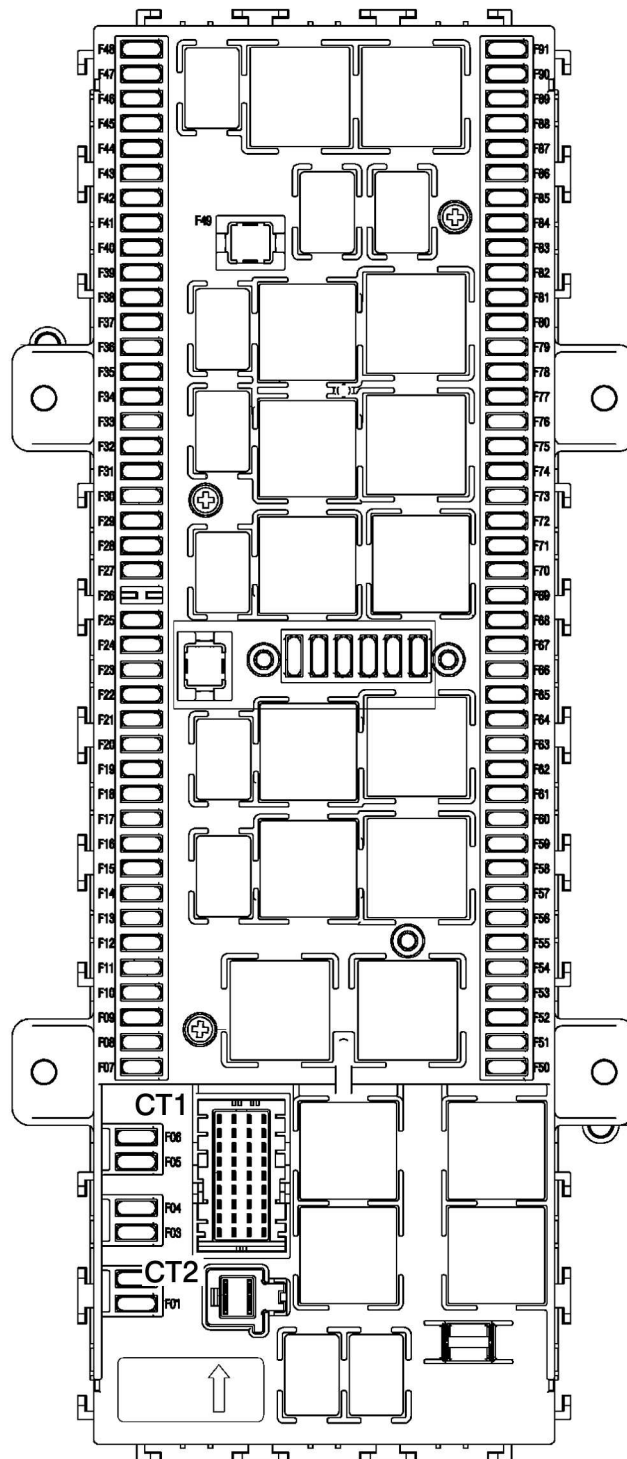
T3100087

Table of relays outside electrical distribution box

Key to devices

Relay	Int. (A)	Folio (Relay)	Code	Function description	Folio (Code)
K30	20	JAF	BB3	Body builder pre-equipment connector no. 3	JAF
K69	20	CCL	R46	Fuel heating resistor	CCL
K69	20	CCL	S227	Fuel heating control	CCL
K94A	10	JAG	EL3	Working area spotlight	JAG
K94B	10	GE2	A48	Television set	GE2
K95	40	GBB/GBC/ GEQ	A186	Night time air conditioning ECU	GBB/GBC
K95	40	GBB/GBC/ GEQ	R55	Microwave oven	GEQ

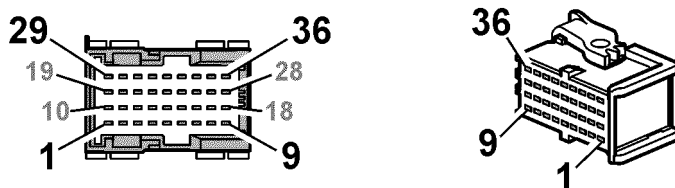
Electrical distribution box - Face A connectors



T3100140

Electrical distribution box - Face A connectors

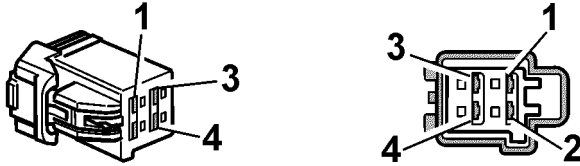
A01.CT1



T3102974

Pin No.	Designation	Polarity No.	Diagram page No.
1	24V/12V transformers wake-up electrical information	4014	GEA/GEB
2	Vehicle general earth	1	BA3
3	Sun-roof motor control	4158	GDA
4	Sun-roof motor control	4157	GDA
5	Tachograph power supply (+24V)	2157	CB1
6	Power supply, night illumination of controls	6000	BA3
7	Pre-equipped power supply in overhead ledge (+24V)	4017	GEA/GEB
10	Key in "Start" position	2138	CB1
11	Vehicle general earth	1	CBT
12	Vehicle general earth	1	CBT
13	Start-up request from vehicle engine	2020	CBK
14	Start-up request from vehicle engine	2020	BA3
15	Power supply, upper area ambient lighting lamps	6006	GA1
16	Power supply, night illumination of controls	6000	BA3
17	Power supply, reading lamps and storage lighting lamps	6008	GA1
18	Vehicle speed for vehicle management ECU (VMCU)	2137	CB1
19	Vehicle general earth	1	GEA/GEB
21	Vehicle general earth	1	GDA
22	Power supply, optional lighting	8062	JAG
24	Power supply, night illumination of controls	6000	GDA
25	Power supply, bunk side lighting lamps	6007	GA1
26	Passenger side front curtain controls power supply	2101	GDA
28	Protected power supply for television, DVD player and telephone (+12V)	4012	GEA/GEB
34	Power supply, remote payment management ECU (+24V)	2041	CBK
35	Power supply, courtesy lights	6011	GA1
36	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG

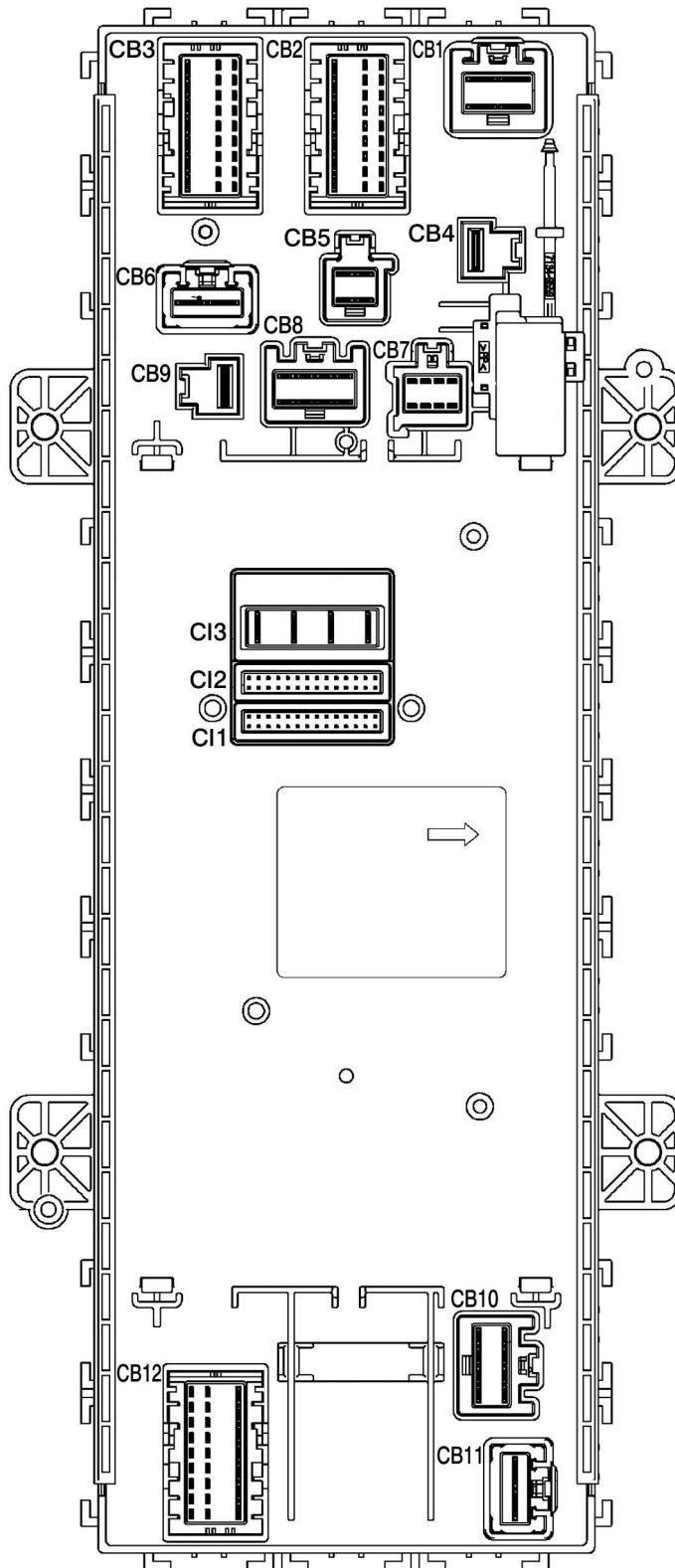
A01.CT2



T3102975

Pin No.	Designation	Polarity No.	Diagram page No.
1	Protected power supply for 24V socket (+24V)	4008	GEQ
2	Power supply, 24V/12V 20A transformer in overhead ledge	4011	GEA/GEB
4	Power supply before fuse for television, DVD player and telephone (+12V)	4161	GEA/GEB

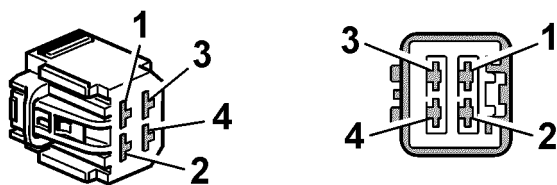
Electrical distribution box - Face B connectors



T3100141

Electrical distribution box - Face B connectors

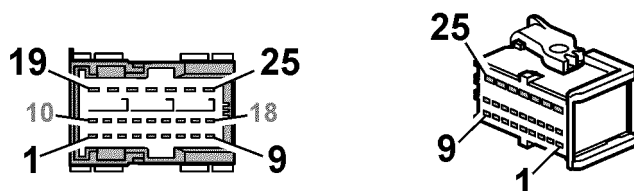
A01.CB1



T3102976

Pin No.	Designation	Polarity No.	Diagram page No.
3	Power supply, cab tilt pump motor	2131	HAA
4	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD/HBE/HBF

A01.CB2

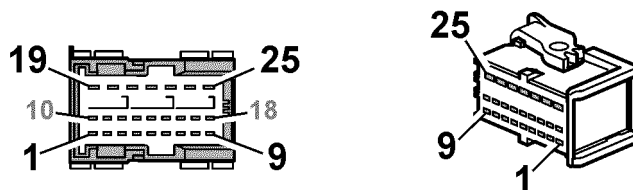


T3102977

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, windscreen wiper motor in high speed	2104	FA1
2	Windscreen wiper position	0151	FA1
3	Power supply, air production management ECU (APM) (+24V)	2086	CKL
5	Power supply, work light	8066	JAG
7	Power supply for trailer socket (+24V)	8017	JAF
8	Power supply for bodybuilder pre-equipment central distribution box	8042	JAF
9	Fuel filter heating resistor power supply	2047	C1K/C1L
10	Power supply, windscreen wiper motor in low speed	2103	FA1
11	Trailer lighting power supply (+24 V)	8020	JAG
16	Vehicle alcolock immobiliser ECU and microwave oven power supply (+24 V)	2039	DAK
17	Vehicle alcolock immobiliser ECU and microwave oven power supply (+24 V)	2039	GEQ
18	Engine ECU power supply (EECU) (+24V)	2046	C1K/C1L
19	Power supply, braking management ECU (EBS) (+24V)	2055	CF3
20	Power supply, air conditioning system (HVAC) (+24V)	2108	GBP
21	Power supply after fuse, fuel heating resistor	2114	CCL
22	Engine ECU power supply (EECU) (+24V)	2044	C1K/C1L

23	Engine ECU power supply (EECU) (+24V)	2045	C1K/C1L
24	After ignition power supply for bodybuilder pre-equipment central distribution box	8043	JAF
25	Power supply, headlamp washer pump motor	2105	FA1

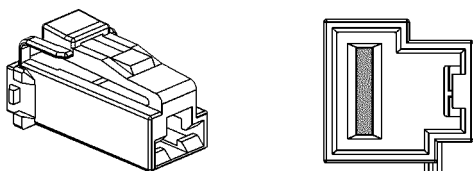
A01.CB3



T3102977

Pin No.	Designation	Polarity No.	Diagram page No.
1	Refrigerator power supply	4004	GEQ
5	Power supply, driving assistance management ECU (DACU) (+24V)	2121	FJK
6	Power supply, telematics management ECUs (+24V)	2040	CBT
10	Tyre Pressure Monitoring System (TPMS) information display power supply	2127	CG1
12	Main power supply (+24V), video management ECU (VS)	2091	DAE
15	Available power supply (+24V) after ignition for telematics pre-equipment	2043	CBK
18	Available power supply (+24V) direct for telematics pre-equipment	2042	CBK

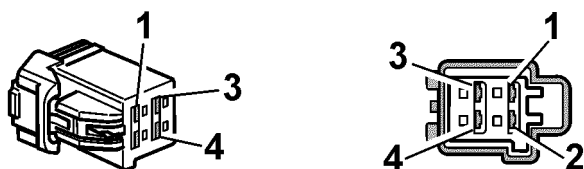
A01.CB4



T3102979

Pin No.	Designation	Polarity No.	Diagram page No.
1	Microwave oven power supply (+24V)	4009	GEQ

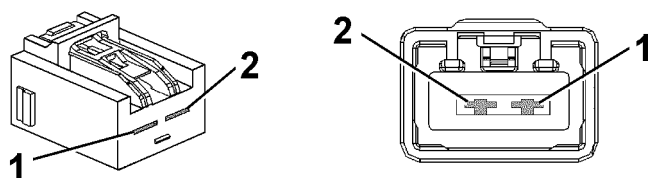
A01.CB5



T3102975

Pin No.	Designation	Polarity No.	Diagram page No.
2	Power supply for bodybuilder pre-equipment central distribution box	8025	JAF
4	Trailer lighting power supply (+24 V)	8020	JAG

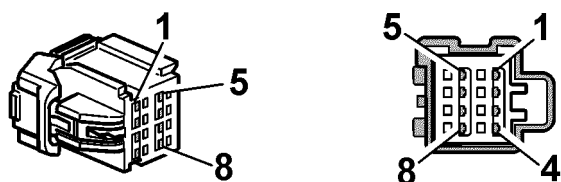
A01.CB6



T3102981

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply for bodybuilder pre-equipment central distribution box	8027	JAF

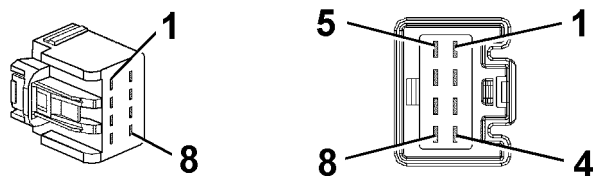
A01.CB7



T3102982

Pin No.	Designation	Polarity No.	Diagram page No.
8	Cab tilt control	2139	HAA

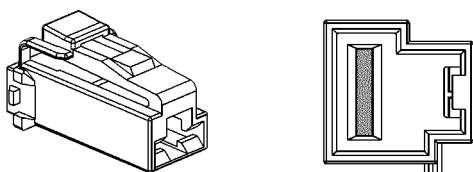
A01.CB8



T3102983

Pin No.	Designation	Polarity No.	Diagram page No.
3	Power supply, independent heating device	2110	GB1
6	Power supply, independent heating device	2110	GBA
8	Gearbox management ECU power supply (TECU) (+24V)	2024	CD5

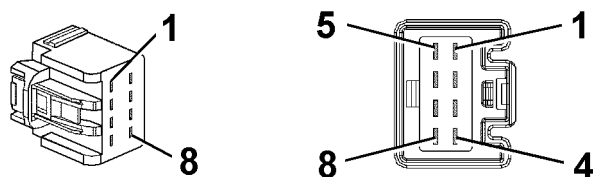
A01.CB9



T3102979

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	CBT/GEA/GEB

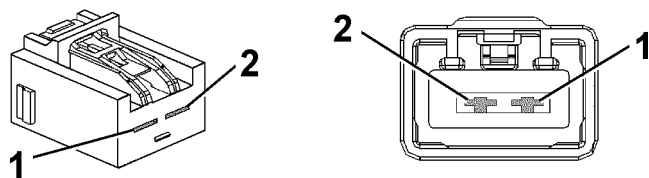
A01.CB10



T3102983

Pin No.	Designation	Polarity No.	Diagram page No.
3	Power supply before fuse for 12V socket on dashboard (+12V)	4162	GEA/GEB
4	Protected power supply for 24V socket (+24V)	4006	GEQ
8	Bodybuilder pre-equipment ECU power supply	2130	JAC

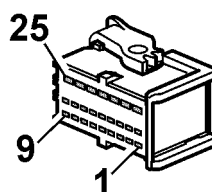
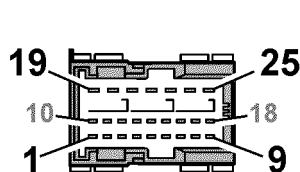
A01.CB11



T3102981

Pin No.	Designation	Polarity No.	Diagram page No.
1	Electric coffee maker power supply (+24V)	4002	GEQ

A01.CB12

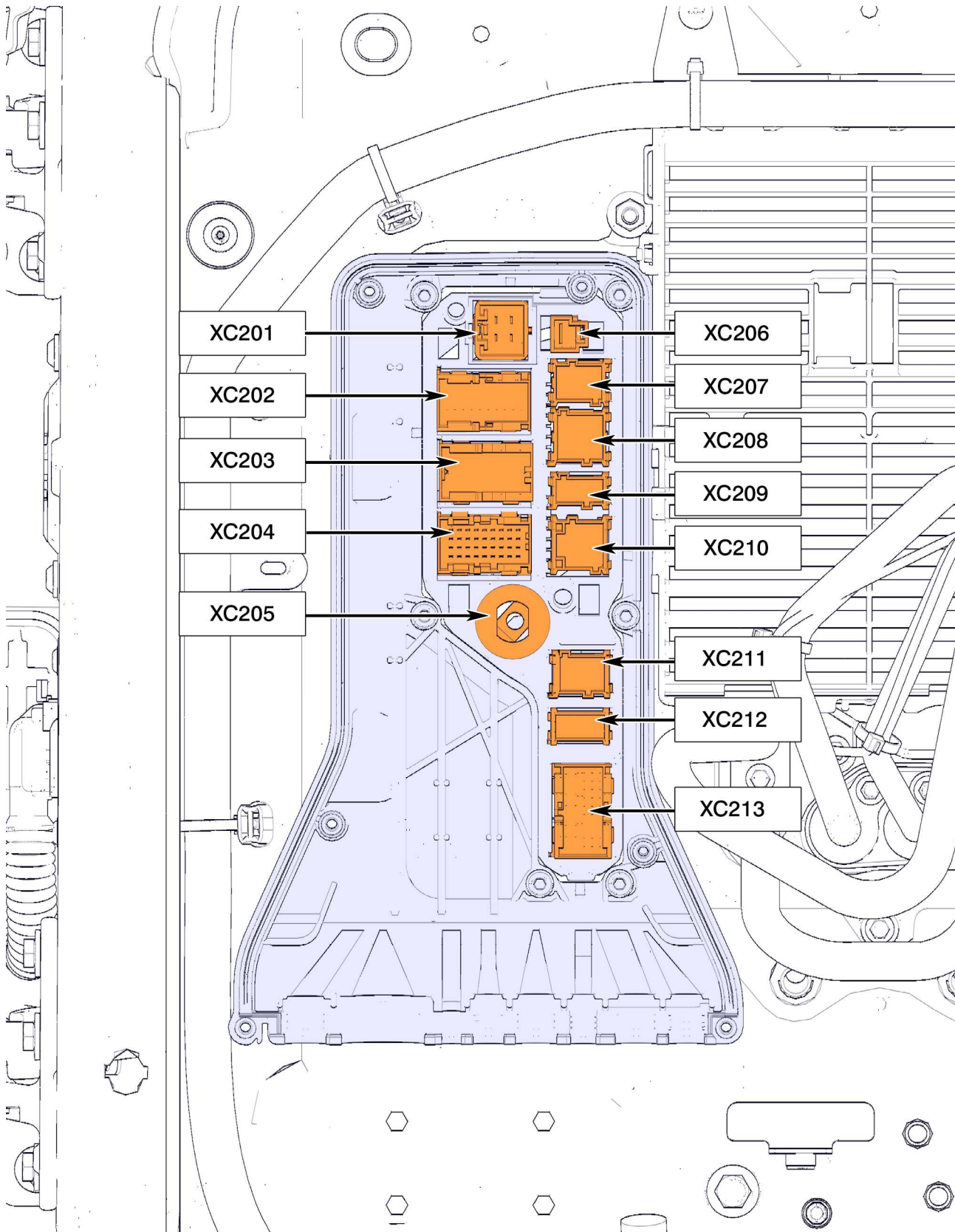


T3102977

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply to hour meter, seats and vehicle alcolock immobiliser ECU engine running electrical signal	2038	GC1
3	Power supply, cab electrical information management ECU (CIOM) (+24V)	2036	DA6
4	Power supply, OBD diagnostic socket (+24V)	2120	CA3
5	Power supply, human/machine interface management ECU (HMIOM) (+24V)	2027	CAK
6	Power supply, reading lamps and storage lighting lamps	6008	GA1
8	Protected power supply for television, DVD player and telephone (+12V)	4012	GEA/GEB
9	Power supply for bodybuilder pre-equipment controls (+24V)	8023	JAF
10	Power supply to hour meter, seats and vehicle alcolock immobiliser ECU engine running electrical signal	2038	GC1
11	Power supply, vehicle anti-theft system ECU (AECU) (+24V)	2128	DAA
12	Main power supply to main information display	2028	CAK
13	Main power supply, main and secondary information displays (SID)	2029	CAK
16	Power supply, RH rear-view mirror defrosting resistors	2095	DA7/DA8
17	Power supply, LH rear-view mirror defrosting resistors	2093	DA7/DA8
18	Fuse-protected power supply for socket (+12V) installed on the dashboard	4015	GEA/GEB
19	Power supply, anti-pinch sensor and LH door information management ECU	2092	DA7
20	Power supply, anti-pinch sensor and RH door information management ECU	2094	DA8
21	Power supply, 24V/12V transformer (+24V)	4163	GEA/GEB
23	Protected power supply for 24V socket (+24V)	4005	GEQ
24	Cigar lighter power supply	4007	GEQ

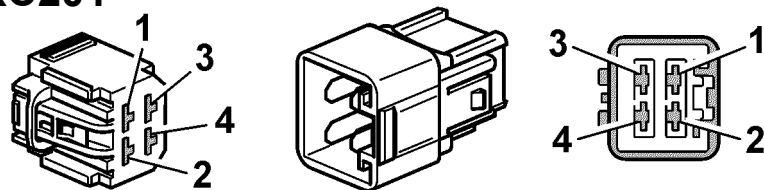
CHASSIS — CAB/BULKHEAD GROMMET CONNECTION

Chassis-cab/bulkhead grommet connection



T3100144

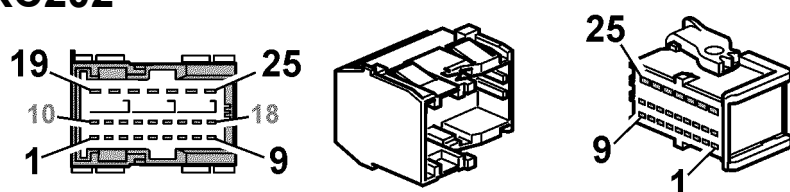
XC201



T3080327

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD
2	Power supply, cab tilt pump motor	2131	HAA

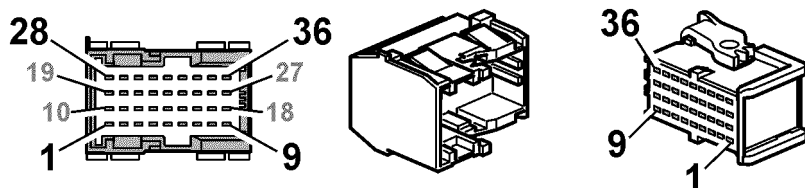
XC202



T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	Bodybuilder pre-equipment - terminal No. 1, connector No. 1	8046	JAF
2	Bodybuilder pre-equipment - terminal No. 2, connector No. 1	8047	JAF
3	Bodybuilder pre-equipment - terminal No. 3, connector No. 1	8048	JAF
4	Bodybuilder pre-equipment - terminal No. 4, connector No. 1	8049	JAF
5	Bodybuilder pre-equipment - terminal No. 5, connector No. 1	8050	JAF
6	Bodybuilder pre-equipment - terminal No. 6, connector No. 1	8051	JAF
7	Bodybuilder pre-equipment - terminal No. 7, connector No. 1	8052	JAF
10	Bodybuilder pre-equipment - terminal No. 1, connector No. 2	8032	JAF
11	Bodybuilder pre-equipment - terminal No. 2, connector No. 2	8033	JAF
12	Bodybuilder pre-equipment - terminal No. 3, connector No. 2	8034	JAF
13	Bodybuilder pre-equipment - terminal No. 4, connector No. 2	8035	JAF
15	Independent heating Inhibition	0156	JAF
19	Bodybuilder pre-equipment - terminal No. 5, connector No. 2	8036	JAF
20	Bodybuilder pre-equipment - terminal No. 6, connector No. 2	8037	JAF
21	Bodybuilder pre-equipment - terminal No. 7, connector No. 2	8038	JAF
22	Power supply for bodybuilder pre-equipment central distribution box	8042	JAF
23	After ignition power supply for bodybuilder pre-equipment central distribution box	8043	JAF
24	Tail lift authorisation power supply/crane power supply	8031	JAF
25	Bodybuilder pre-equipment feedback	8045	JAF

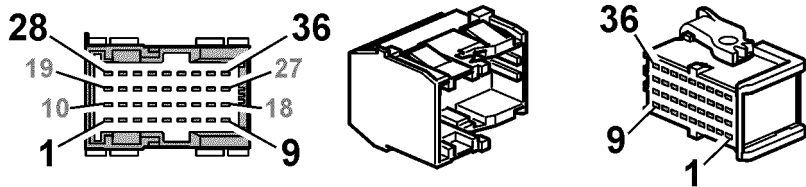
XC203



T3080545

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main 1939 CAN bus signal (+)	7004	WA5
2	Main 1939 CAN bus signal (-)	7005	WA5
5	2284 CAN bus signal for chassis (+)	7000	WAA
6	2284 CAN bus signal for chassis (-)	7001	WAA
7	Wheel steer angle sensor signal (+)	7052	CF3
8	Wheel steer angle sensor signal (-)	7053	CF3
9	Brake pedal signal No. 1	0068	CF3
10	LIN bus signal, electric parking brake control (-)	7056	CKL
11	LIN bus signal, electric parking brake control (+)	7055	CKL
12	LIN bus power supply, electric parking brake control	7054	CKL
13	LIN bus power supply for independent heating control (+12V)	7058	GB1
14	LIN bus for independent heating control	7057	GB1
15	Power supply, chassis lateral acceleration sensor and wheel steer angle sensor	2142	CF3
16	Wheel steer angle sensor earth	1022	CF3
17	Brake pedal position sensor earth	1017	CF3
18	Brake pedal signal No. 2	0069	CF3
19	Speed sensor power supply	2031	CB1
20	Actual vehicle speed	0012	CB1
21	Speed sensor electronic earth from the vehicle management ECU (VMCU)	1070	CB1
22	Speed sensor "input/output" signal	2032	CB1
25	Power supply, brake pedal position sensor	2056	CF3
26	Start-up request from vehicle engine	2020	CA3
27	Hazard lights activated	3000	CA3
29	Air conditioning compressor clutch solenoid valve control	0152	GBP
33	Fuel supply pump earth for independent heating	1048	GB1
34	Fuel supply pump control for independent heating	2111	GB1
35	Power supply, air production management ECU (APM) (+24V)	2086	CKL
36	Power supply, independent heating device	2110	GB1

XC204



T3080545

Pin No.	Designation	Polarity No.	Diagram page No.
1	Bus signal, safety aid No. 2 (+)	7073	FJK/FJL
2	Bus signal, safety aid No. 2 (-)	7074	FJK/FJL
3	Cab tilt control	2139	HAA
4	Cab tilt authorisation	0018	HAA
10	Power supply, object detection and distance measurement sensors (FLS)	2126	FJK/FJL
11	Object detection and distance measurement sensor earth (FLS)	1054	FJL
19	LIN bus power supply, alarm siren (+)	5020	DAA
20	LIN bus signal, alarm siren	5022	DAA
21	LIN bus earth, alarm siren (-)	5021	DAA

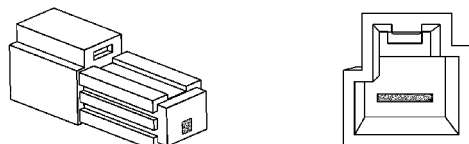
XC205



T3102978

Pin No.	Designation	Polarity No.	Diagram page No.
-	Protected power supply, distribution box inside the cab (+24V direct battery)	4000	BA2

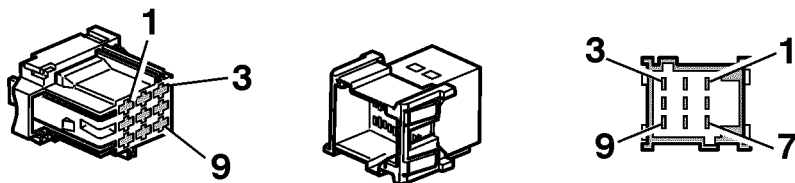
XC206



T3102985

Pin No.	Designation	Polarity No.	Diagram page No.
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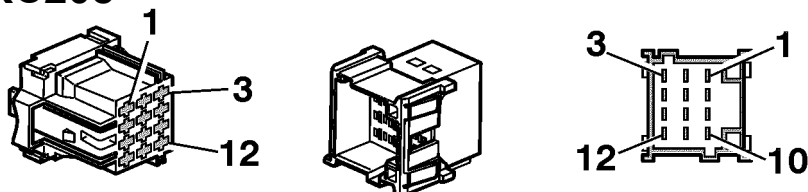
XC207



T3019929

Pin No.	Designation	Polarity No.	Diagram page No.
1	Tachograph power supply (with ADR)	2022	CB1
3	ADR master switch cut-off control	0005	BA3
4	ADR master switch cut-off control	0007	BA3
5	ADR master switch cut-off control	0006	BA3
6	ADR master switch cut-off control	0008	BA3

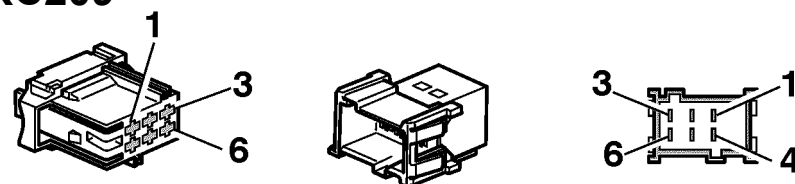
XC208



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
5	Gearbox management ECU power supply (TECU) (+24V)	2024	CD5
8	Power supply, fuel heating resistor	2115	CCL

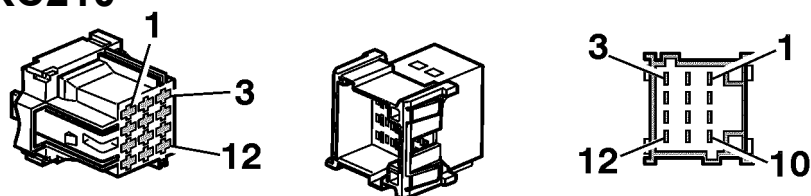
XC209



T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
2	Vehicle general earth	1	JAG
3	Vehicle general earth	1	JAG
5	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG
6	Power supply, optional lighting	8062	JAG

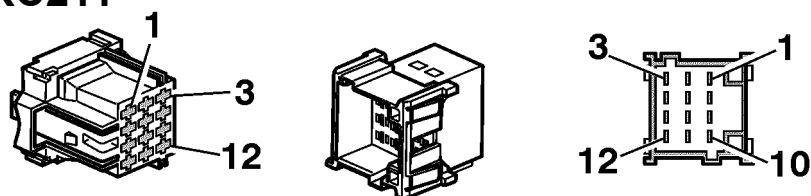
XC210



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
1	Engine ECU power supply (EECU) (+24V)	2044	C1K/C1L
2	Engine ECU power supply (EECU) (+24V)	2045	C1K/C1L
3	Engine ECU power supply (EECU) (+24V)	2046	C1K/C1L
4	Engine ECU power supply (EECU) (+24V)	2044	C1K/C1L
5	Power supply for trailer socket (+24V)	8017	HBD/HBE/HBF
6	Fuel filter heating resistor power supply	2047	C1K/C1L
7	Bodybuilder pre-equipment on trailer connector or starting assistance information (+) signal	8019	HBD/HBE/HBF
8	Trailer lighting power supply (+24 V)	8020	HBD/HBE/HBF
9	Main 2284 CAN bus signal (+)	7006	WA6
10	Power supply, braking management ECU (EBS) (+24V)	2055	CF3
11	Bodybuilder pre-equipment on trailer connector or steered rear axle information (-) signal	8018	HBD/HBE/HBF
12	Main 2284 CAN bus signal (-)	7007	WA6

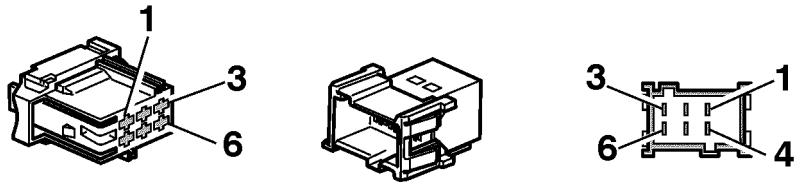
XC211



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, work light	8067	JAG
2	ADR master switch cut-off control	0006	BA3
3	ADR master switch cut-off control	0006	BA3
4	Vehicle general earth	1	JAG
5	ADR master switch cut-off control	0007	BA3
6	ADR master switch cut-off control	0007	BA3
7	Electrical connection between the cab right-hand and left-hand position sensors	0017	HAA
8	Electronic earth	1070	HAA

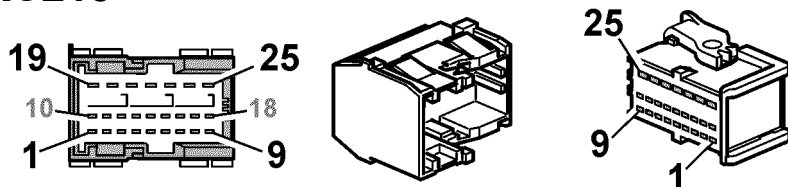
XC212



T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
-	Not used	-	-

XC213

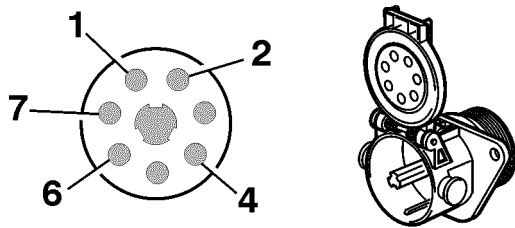


T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, independent heating device	2110	GB1
2	Power supply, windscreen wiper motor in high speed	2104	FA1
3	Independent heating Inhibition	0156	GB1
4	Cab tilted	0016	HAA
5	Fuel supply pump control for independent heating	2111	GB1
6	Power supply, brake pedal position sensor	2056	CF3
7	Brake pedal signal No. 1	0068	CF3
8	Vehicle general earth	1	GB1
9	LIN bus for passenger compartment air conditioning control panel	7057	GB1
10	Power supply, windscreen wiper motor in low speed	2103	FA1
11	Windscreen wiper position	0151	FA1
13	Electrical connection between the cab right-hand and left-hand position sensors	0017	HAA
14	Fuel supply pump earth for independent heating	1048	GB1
15	Brake pedal position sensor earth	1017	CF3
16	Brake pedal signal No. 2	0069	CF3
18	Passenger compartment air conditioning control panel LIN bus power supply (+12 V)	7058	GB1
28	Power supply, headlamp washer pump motor	2105	FA1

TRAILER CONNECTIONS

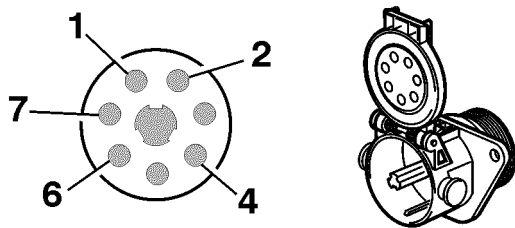
X02 EBS 7-pin trailer socket



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD/HBE/HBF
2	Key in "Ignition position" for trailer socket	0160	HBD/HBE/HBF
3	Vehicle general earth	1	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Trailer lamps inspection	0161	HBD/HBE/HBF
6	EBS CAN bus signal, trailer socket (+)	7083	HBD/HBE/HBF
7	EBS CAN bus signal, trailer socket (-)	7084	HBD/HBE/HBF

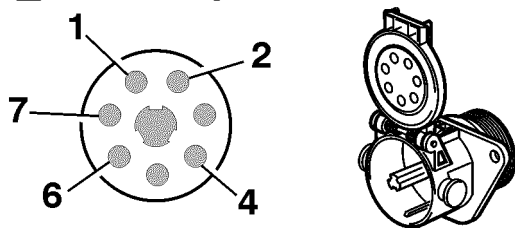
X02A EBS 7-pin trailer socket



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD/HBE/HBF
2	Key in "Ignition position" for trailer socket	0160	HBD/HBE/HBF
3	Vehicle general earth	1	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Trailer lamps inspection	0161	HBD/HBE/HBF
6	EBS CAN bus signal, trailer socket (+)	7083	HBD/HBE/HBF
7	EBS CAN bus signal, trailer socket (-)	7084	HBD/HBE/HBF

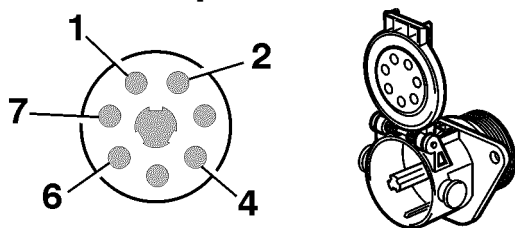
X02_2 EBS 7-pin trailer socket



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD/HBE/HBF
2	Key in "Ignition position" for trailer socket	0160	HBD/HBE/HBF
3	Vehicle general earth	1	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Trailer lamps inspection	0161	HBD/HBE/HBF
6	EBS CAN bus signal, trailer socket (+)	7083	HBD/HBE/HBF
7	EBS CAN bus signal, trailer socket (-)	7084	HBD/HBE/HBF

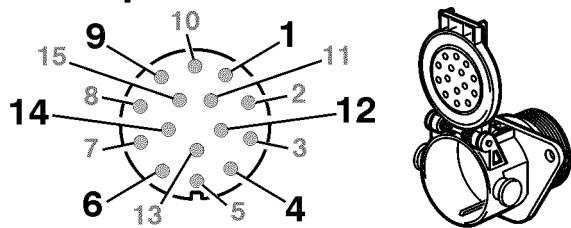
X02B EBS 7-pin trailer socket



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD/HBE/HBF
2	Key in "Ignition position" for trailer socket	0160	HBD/HBE/HBF
3	Vehicle general earth	1	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Trailer lamps inspection	0161	HBD/HBE/HBF
6	EBS CAN bus signal, trailer socket (+)	7083	HBD/HBE/HBF
7	EBS CAN bus signal, trailer socket (-)	7084	HBD/HBE/HBF

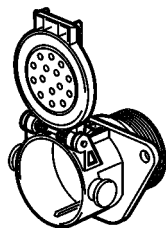
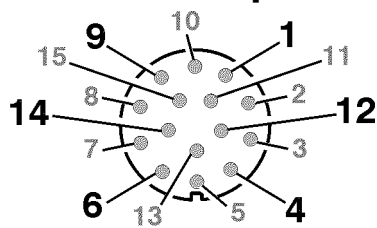
X03 15-pin trailer socket



T3019933

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, trailer LH direction indicator lights	3050	HBD/HBE/HBF
2	Power supply, trailer RH direction indicator lights	3051	HBD/HBE/HBF
3	Power supply, trailer fog lights	3055	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Power supply, trailer LH position lights	3052	HBD/HBE/HBF
6	Power supply, trailer RH position lights	3053	HBD/HBE/HBF
7	Power supply, trailer stop lights	3054	HBD/HBE/HBF
8	Power supply, trailer reversing lights	3056	HBD/HBE/HBF
9	Power supply for trailer socket (+24V)	8017	HBD/HBE/HBF
10	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8018	HBD/HBE/HBF
11	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8019	HBD/HBE/HBF
12	Trailer lighting power supply (+24 V)	8020	HBD/HBE/HBF
13	Vehicle general earth	1	HBD/HBE/HBF

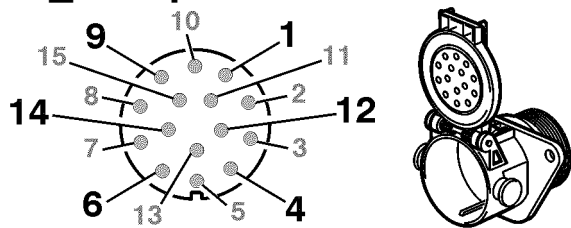
X03A EBS 15-pin trailer socket



T3019933

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, trailer LH direction indicator lights	3050	HBD/HBE/HBF
2	Power supply, trailer RH direction indicator lights	3051	HBD/HBE/HBF
3	Power supply, trailer fog lights	3055	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Power supply, trailer LH position lights	3052	HBD/HBE/HBF
6	Power supply, trailer RH position lights	3053	HBD/HBE/HBF
7	Power supply, trailer stop lights	3054	HBD/HBE/HBF
8	Power supply, trailer reversing lights	3056	HBD/HBE/HBF
9	Power supply for trailer socket (+24V)	8017	HBD/HBE/HBF
10	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8018	HBD/HBE/HBF
11	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8019	HBD/HBE/HBF
12	Trailer lighting power supply (+24 V)	8020	HBD/HBE/HBF
13	Vehicle general earth	1	HBD/HBE/HBF

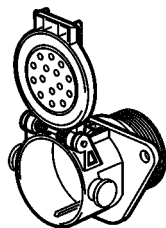
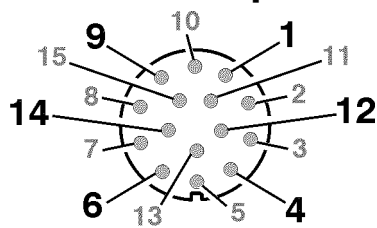
X03_2 15-pin trailer socket



T3019933

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, trailer LH direction indicator lights	3050	HBD/HBE/HBF
2	Power supply, trailer RH direction indicator lights	3051	HBD/HBE/HBF
3	Power supply, trailer fog lights	3055	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Power supply, trailer LH position lights	3052	HBD/HBE/HBF
6	Power supply, trailer RH position lights	3053	HBD/HBE/HBF
7	Power supply, trailer stop lights	3054	HBD/HBE/HBF
8	Power supply, trailer reversing lights	3056	HBD/HBE/HBF
9	Power supply for trailer socket (+24V)	8017	HBD/HBE/HBF
10	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8018	HBD/HBE/HBF
11	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8019	HBD/HBE/HBF
12	Trailer lighting power supply (+24 V)	8020	HBD/HBE/HBF
13	Vehicle general earth	1	HBD/HBE/HBF

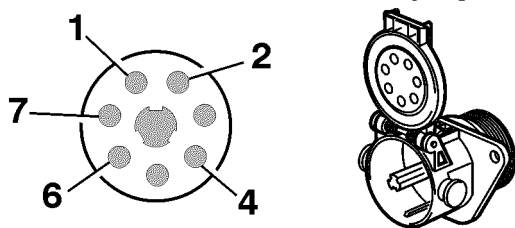
X03B EBS 15-pin trailer socket



T3019933

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, trailer LH direction indicator lights	3050	HBD/HBE/HBF
2	Power supply, trailer RH direction indicator lights	3051	HBD/HBE/HBF
3	Power supply, trailer fog lights	3055	HBD/HBE/HBF
4	Vehicle general earth	1	HBD/HBE/HBF
5	Power supply, trailer LH position lights	3052	HBD/HBE/HBF
6	Power supply, trailer RH position lights	3053	HBD/HBE/HBF
7	Power supply, trailer stop lights	3054	HBD/HBE/HBF
8	Power supply, trailer reversing lights	3056	HBD/HBE/HBF
9	Power supply for trailer socket (+24V)	8017	HBD/HBE/HBF
10	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8018	HBD/HBE/HBF
11	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8019	HBD/HBE/HBF
12	Trailer lighting power supply (+24 V)	8020	HBD/HBE/HBF
13	Vehicle general earth	1	HBD/HBE/HBF

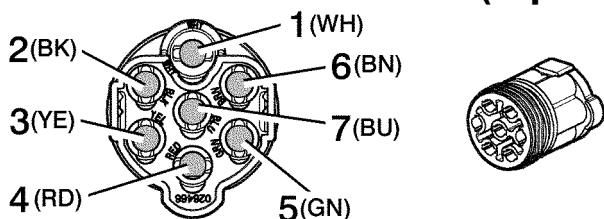
X04 Trailer connection (7-pin type 24 N)



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	HBD
2	Power supply, trailer LH position lights	3052	HBD
3	Power supply, trailer LH direction indicator lights	3050	HBD
4	Power supply, trailer stop lights	3054	HBD
5	Power supply, trailer RH direction indicator lights	3051	HBD
6	Power supply, trailer LH position lights	3053	HBD
7	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8018	HBD

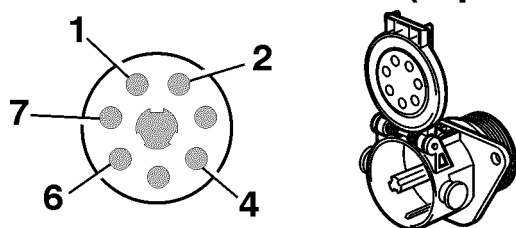
X04A Trailer connection (7-pin type 24 N)



T3124674

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	HBD
2	Power supply, trailer LH position lights	3052	HBD
3	Power supply, trailer LH direction indicator lights	3050	HBD
4	Power supply, trailer stop lights	3054	HBD
5	Power supply, trailer RH direction indicator lights	3051	HBD
6	Power supply, trailer LH position lights	3053	HBD
7	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8018	HBD

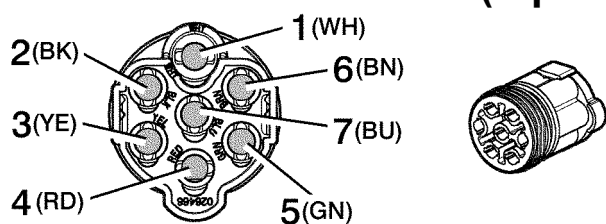
X05 Trailer connection (7-pin type 24 S)



T3019932

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	HBD
2	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8019	HBD
3	Power supply, trailer reversing lights	3056	HBD
4	Power supply for trailer socket (+24V)	8017	HBD
5	Trailer lighting power supply (+24 V)	8020	HBD
7	Power supply, trailer fog lights	3055	HBD

X05A Trailer connection (7-pin type 24 S)



T3124674

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	HBD
2	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8019	HBD
3	Power supply, trailer reversing lights	3056	HBD
4	Power supply for trailer socket (+24V)	8017	HBD
5	Trailer lighting power supply (+24 V)	8020	HBD
7	Power supply, trailer fog lights	3055	HBD

AVAILABLE POWER SUPPLIES

Available power supplies

All electrical connections must be provided on the power supplies supplied by **RENAULT TRUCKS**.

It is prohibited to create an electrical take-off point on the various wiring harnesses.

It is mandatory to use and adapt type-approved connectors and harnesses distributed by **RENAULT TRUCKS**.

The cross section of the cables must be suitable for the intended use. **RENAULT TRUCKS** recommends using 7 amps per **mm²** when calculating the cross section of the conductor material.

Comply with the circuit protections recommended by **RENAULT TRUCKS**.



CAUTION

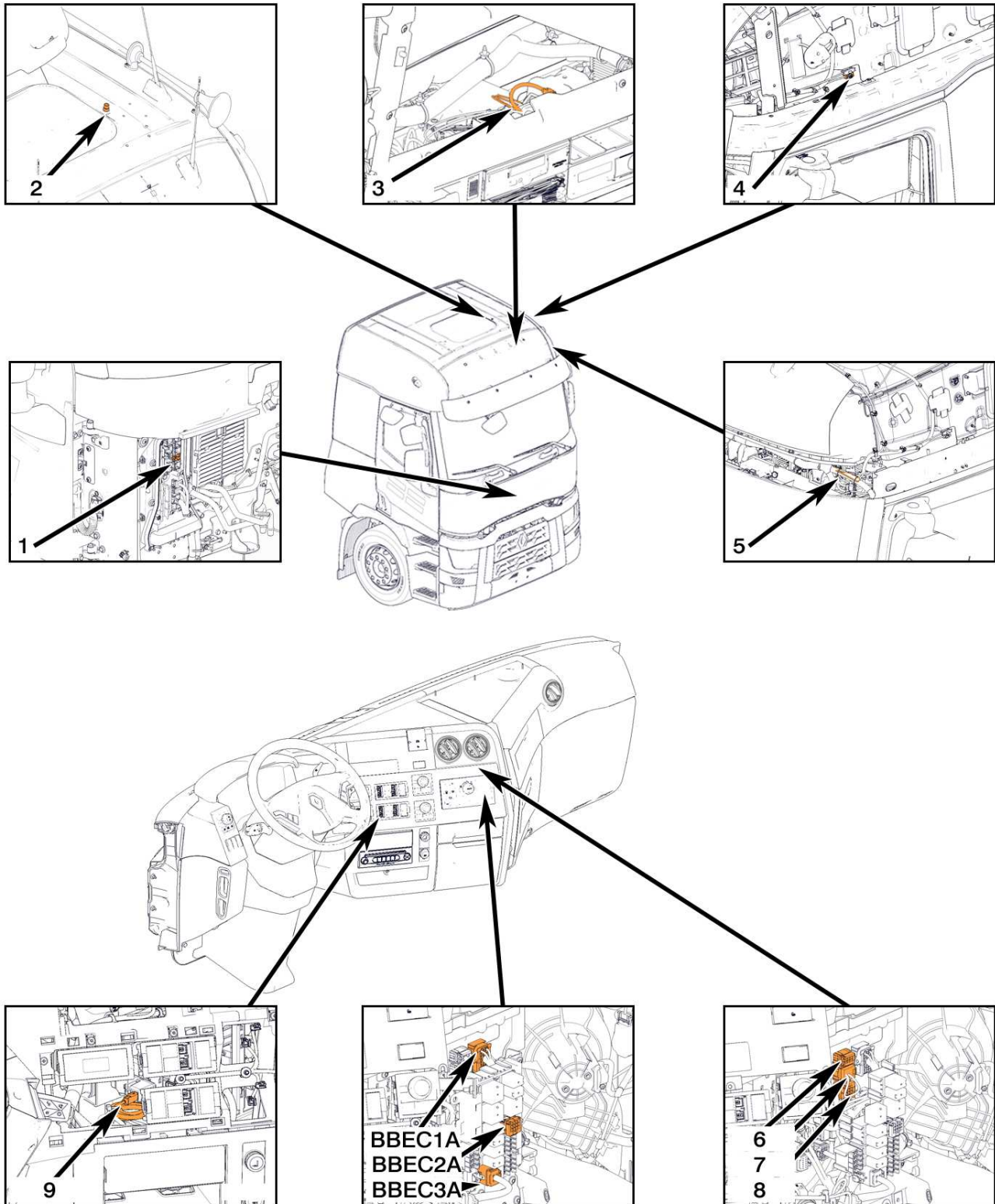
It is prohibited to change the fuse rating



CAUTION

There is a significant risk of destroying the ECUs if electrical loads without integrated protection are used.

Available power supplies inside the cab



T3100198

Location 1

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (vehicle earth)	1	-	-
Available power supply (supplementary lighting lamp on the front)	8062	F11	15
Available power supply (exterior logo lighting lamp)	8064	F15	10

Note:

The available power supply at location 1 corresponds to connector **XC209**.

Location 2

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (supplementary lighting lamp on roof)	8062	F11	15
Available power supply (rotating beacon light)	8063	F12	15
Available power supply (sign lighting lamp on roof)	8064	F15	10

Note:

The available power supply at location 2 corresponds to connector **XC184**.

Location 3

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (+ CB)	4016	-	10
Available power supply (- CB)	1069	-	10
C.B antenna cable pre-arrangement	4164	-	-

Note:

The available power supply at location 3 corresponds to cut wires.

Location 4

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (television set -)	1069	-	10
Available power supply (television set +)	4012	-	5

Note:

*The available power supply at location 4 corresponds to connector **XC178**.*

Location 5

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (console accessories)	4017	F56	10

Note:

The available power supply at location 5 corresponds to cut wires.

Location 6

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (CAN BUS J2284 high level)	7008	-	3
Available power supply (CAN BUS J2284 low level)	7009	-	3
Available power supply (Video control unit)	2091	F53	5

Note:

*The available power supply at location 6 corresponds to connector **XC181**.*

Location 7

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (vehicle earth)	0022	-	3
Available power supply (vehicle starting)	0022	-	3
Available power supply (after ignition)	2020	-	3
Available power supply (engine running)	2038	-	7
Available power supply (CAN BUS J2284 high level)	7026	-	3
Available power supply (CAN BUS J2284 low level)	7027	-	3

Note:

The available power supply at location 7 corresponds to connector **XC191**.

Location 8

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (camera unit plus object detection and lane change sensors)	2122	-	3
Available power supply (CAN BUS J1939 high level)	7004	-	5
Available power supply (CAN BUS J1939 low level)	7005	-	5
Available power supply (CAN BUS J2284 high level)	7006	-	5
Available power supply (CAN BUS J2284 low level)	7007	-	5
Available power supply (CAN BUS J2284 high level)	7026	-	3
Available power supply (CAN BUS J2284 low level)	7027	-	3
Available power supply (CAN BUS J2284 high level)	7073	-	5
Available power supply (CAN BUS J2284 low level)	7074	-	5
Available power supply (driving assist management control unit)	2121	F31	5

Note:

The available power supply at location 8 corresponds to connector **XC189**.

Location 9

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (radiotelephone -)	1069	-	10

Telephone set antenna	4179	-	-
Available power supply (radiotelephone +)	4012	F03	10

Note:

The available power supply at location 9 corresponds to cut wires.

Location BBEC1A

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (trailer loading alarm)	0159	-	5
Available power supply (engine running or neutral or parking brake signal)	8000	-	5
Available power supply (block of repositionable controls)	8002	-	5
Available power supply (tail lift or crane control)	8004	-	5
Available power supply (block of repositionable controls)	8083	-	5
Available power supply (body builder equipment control)	8084	-	3
Available power supply (body builder equipment control)	8085	-	3
Available power supply (body builder equipment control)	8086	-	3
Available power supply (tail lift information)	8045	-	5
Available power supply (additional trailer lighting)	8020	F76	15

Location BBEC2A

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (vehicle earth)	1	-	-
Available power supply	8025	F08	20
Available power supply (vehicle starting)	8027	F73	30

Location **BBEC3A****Equipment key**

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply	8032	-	10
Available power supply	8033	-	10
Available power supply	8034	-	10
Available power supply	8035	-	10
Available power supply	8036	-	17
Available power supply	8037	-	17
Available power supply	8038	-	17
Available power supply	8046	-	10
Available power supply	8047	-	10
Available power supply	8048	-	10
Available power supply	8049	-	10
Available power supply	8050	-	10
Available power supply	8051	-	10
Available power supply	8052	-	10

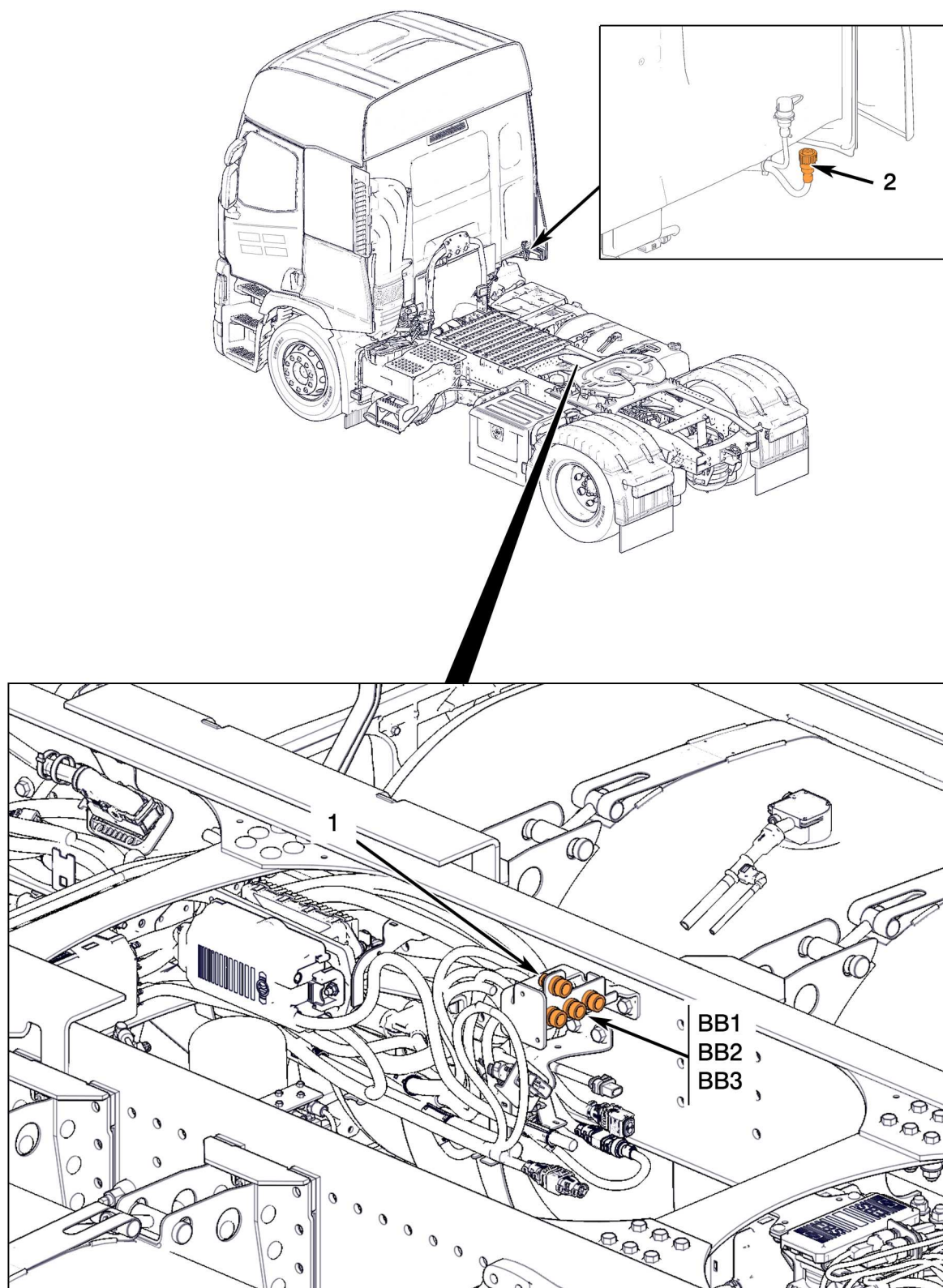
Note:

A feed-through for the body builder harness is provided for this purpose on the chassis-cab connection.

**DANGER**

It is forbidden to use the other connectors present on the chassis-cab connector.

Power supplies available on chassis



T3100199

Location 1

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (vehicle earth)	1	-	-
Power supply, rear position lights	3066	-	5
Power supply, front position lights	3017	-	5

Note:

Location **BB1** The available power supply at location 1 corresponds to connector **XC351**.

Location 2

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (working area spotlamp)	8067	F34	5

Note:

The available power supply at location 2 corresponds to connector **XC198**.

Location **BB1**

Equipment key

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply	8046	-	10
Available power supply	8047	-	10
Available power supply	8048	-	10
Available power supply	8049	-	10
Available power supply	8050	-	10
Available power supply	8051	-	10
Available power supply	8045	-	5

Location **BB2****Equipment key**

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply	8032	-	10
Available power supply	8033	-	10
Available power supply	8034	-	10
Available power supply	8035	-	10
Available power supply	8036	-	17
Available power supply	8037	-	17
Available power supply	8038	-	17

Location **BB3****Equipment key**

Function description	No. Polarity	Conn. marking	Rating (A)
Available power supply (vehicle earth)	1	-	-
Available power supply (vehicle earth)	1	-	-
Available power supply (independent heating deactivation)	0156	-	5
Available power supply	8042	-	10
Available power supply (tail lift information)	8045	-	5
Available power supply (power supply to tail lift or crane)	8031	F58	15
Available power supply (after ignition)	8043	F74	20

WIRING HARNESSES

Summary of harness routings

Electrical distribution wiring harness routing

See page 577

Main CAN bus wiring harness routing J1939

See page 579

Information display wiring harness routing

See page 581

Tachograph wiring harness routing

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11-litre engine harness routing - Euro III

See page 585

11-litre engine harness routing - Euro V

See page 589

11-litre engine harness routing - Euro VI

See page 593

13-litre engine harness routing - Euro III

See page 597

13-litre engine harness routing - Euro V

See page 601

13-litre engine harness routing – Euro VI - Phase 1 (OBDEP-A)

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13-litre engine harness routing – Euro VI - Phase 2 (OBDEP-C)

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Urea supply system wiring harness routing, Euro V

See page 613

Urea supply system wiring harness routing, Euro VI

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Telematics management system wiring harness routing

See page 617

Mechanical gearbox wiring harness routing

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Euro V automated manual transmission wiring harness routing

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Euro VI automated manual transmission wiring harness routing

See page 625

EBS equipment wiring harness routing

See page 627

Suspension wiring harness routing

See page 629

Door harness routing (For vehicles manufactured before 2017/06/05)

See page 631

Door harness routing (For vehicles manufactured after 2017/06/04)

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Alarm wiring harness routing

See page 635

Air conditioning wiring harness routing

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Audio system harness routing (For vehicles manufactured before 2017/06/05)

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Audio system harness routing (For vehicles manufactured after 2017/06/04)

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Accessories wiring harness routing

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Windscreen de-icing harness routing

See page 646

Routing of driving assist harness (before 04/06/2018)

See page 648

Routing of driving assist harness (after 03/06/2018) (1/2)

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Routing of driving assist wiring harness (after 03/06/2018) (2/2)

See page 652

Cab tilt wiring harness routing

See page 654

Cab interior lighting wiring harness routing

See page 656

Cab external lighting wiring harness routing

See page 658

Routing of the exterior lighting wiring harness on the chassis - With main beam headlights

See page 660

Routing of the exterior lighting wiring harness on the chassis - With on-site headlights

See page 662

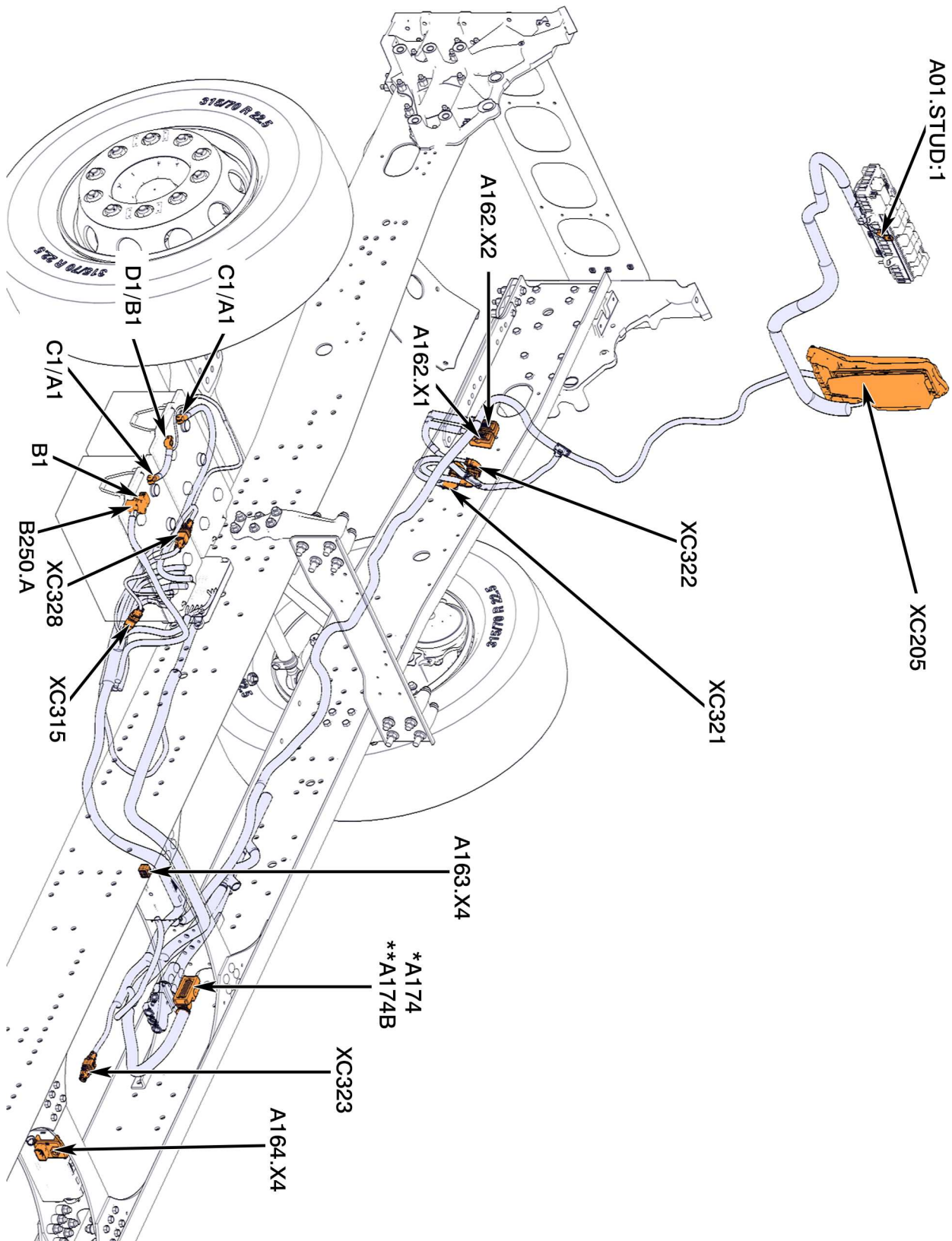
Windscreen wiper and windscreen washer wiring harness routing

See page 664

Controls wiring harness routing

See page 666

Electrical distribution wiring harness routing



T3099247

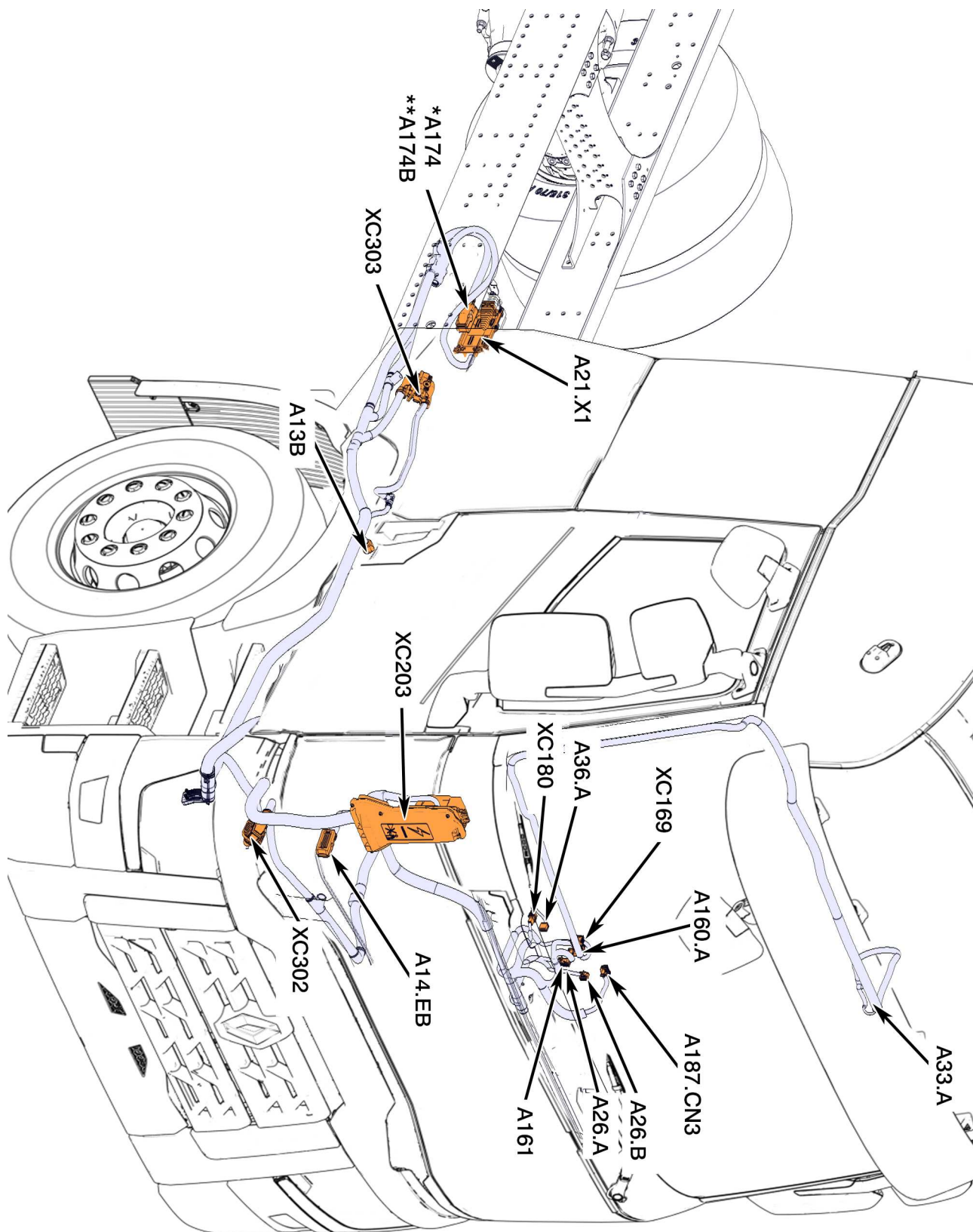
Electrical distribution wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.STUD:1	NL	1
A162	Front chassis area information management control unit (FCIOM)	A162.X1	BK	29
A162	Front chassis area information management control unit (FCIOM)	A162.X2	GY	29
A163	Central chassis area information management control unit (CCIOM)	A163.X4	BK	2
A164	Rear chassis area information management control unit (RCIOM)	A164.X4	BK	2
A174	Exhaust gas after-treatment control module (ACM)	A174	BK	62
A174B	Exhaust gas after-treatment control module (ACM)	A174B	GY	62
B250	24 V DC battery charge status sensor	B250.A	BK	3
G01A	12 V DC battery No. 1	A1	-	-
G01A	12 V DC battery No. 1	B1	-	-
G01A	12 V DC battery No. 1	C1	-	-
G01A	12 V DC battery No. 1	D1	-	-
G01B	12 V DC battery No. 2	A1	-	-
G01B	12 V DC battery No. 2	B1	-	-
G01B	12 V DC battery No. 2	C1	-	-
XC205	Plug-in connector between the dashboard harness and the +24 volts power supply harness	XC205	NL	1
XC315	Plug-in connector between the chassis front harness and the battery box harness	XC315	BK	4
XC321	Plug-in connector between the bumper harness and the power fuse box power supplies harness	XC321	BK	2
XC322	Plug-in connector between the bumper harness and the power fuse box power supplies harness	XC322	GY	2
XC323	Plug-in connector between the chassis central harness and the power fuse box power supplies harness	XC323	BK	2
XC328	Plug-in connector between the harness for the ADR equipment adaptation on the chassis and the ADR equipment harness on the chassis	XC328	BK	16

* : vehicles compliant with **Euro V** standards

** : vehicles compliant with **Euro VI** standards

Main CAN bus wiring harness routing J1939



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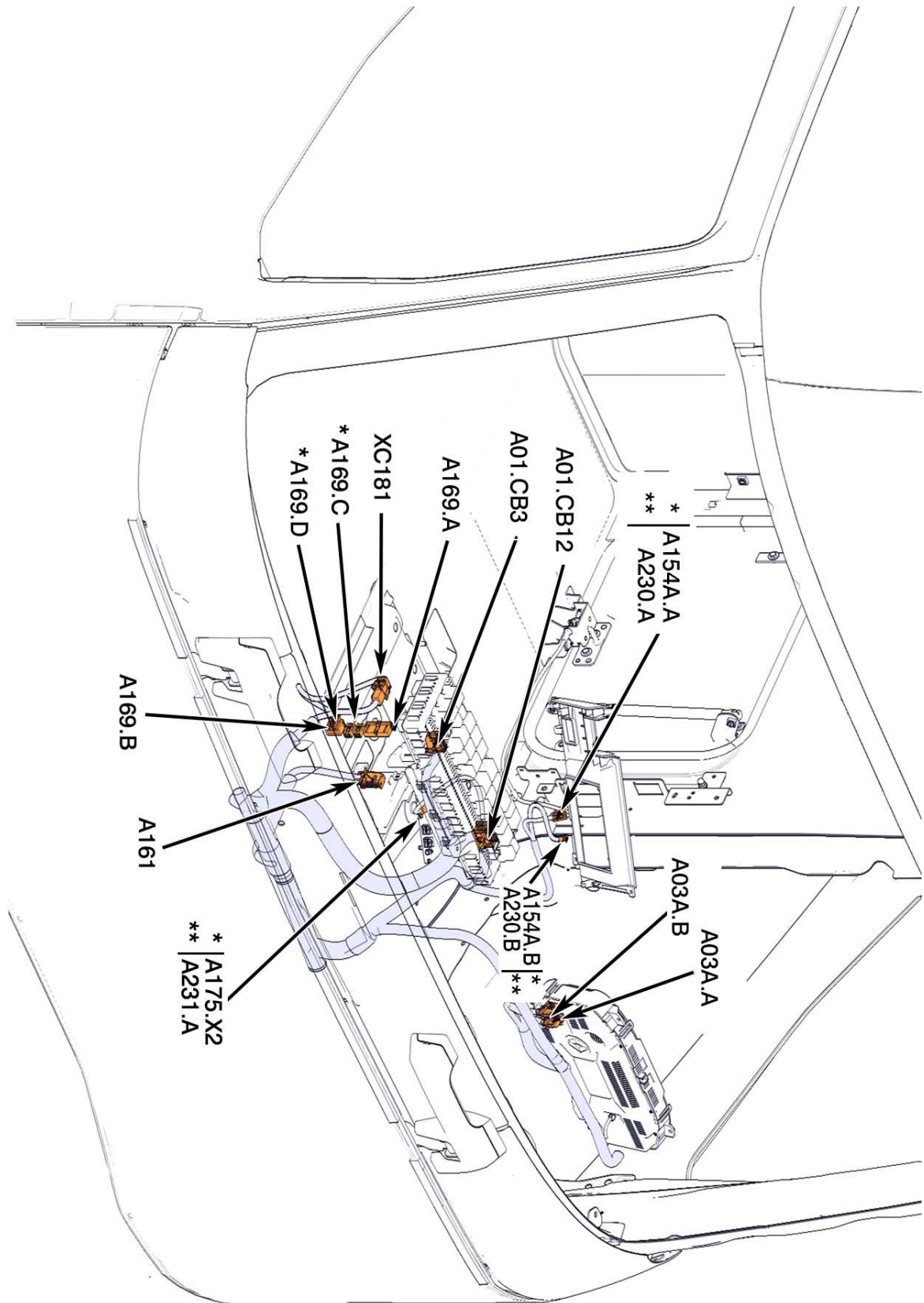
Main CAN bus wiring harness routing J1939

Code	Function description	Connector	Colour	No. of pins
A13A	Automated manual transmission management control unit	A13A.A	-	-
A13B	Automated manual transmission management control unit	A13B.A	-	-
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A21	Electronic braking system control unit (EBS)	A21.X1	BK	16
A26	Driving assist management control unit (DACU)	A26.A	GY	12
A26	Driving assist management control unit (DACU)	A26.B	BK	18
A33	Tachograph	A33.A	WH	8
A36	Body builder pre-equipment management control unit (BBM)	A36.A	GN	12
A160	Cab information management control unit (CIOM)	A160.A	GN	30
A161	Man/machine interface management control unit (HMIIOM)	A161	BK	26
A174	Exhaust gas after-treatment control module (ACM)	A174	GY	62
A174B	Exhaust gas after-treatment control module (ACM)	A174B	GY	62
A187	Main vehicle management control unit (VMCU)	A187.CN3	BK	26
XC169	Plug-in connector between dashboard harness and console harness	XC169	BK	25
XC180	Plug-in connector between the dashboard harness and the body builder pre-equipment management control unit harness	XC180	BU	6
XC203	Plug-in connector between dashboard harness and chassis front harness	XC203	BN	36
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39

* : vehicles compliant with **Euro V** standards

** : vehicles compliant with **Euro VI** standards

Information display wiring harness routing



T3130647

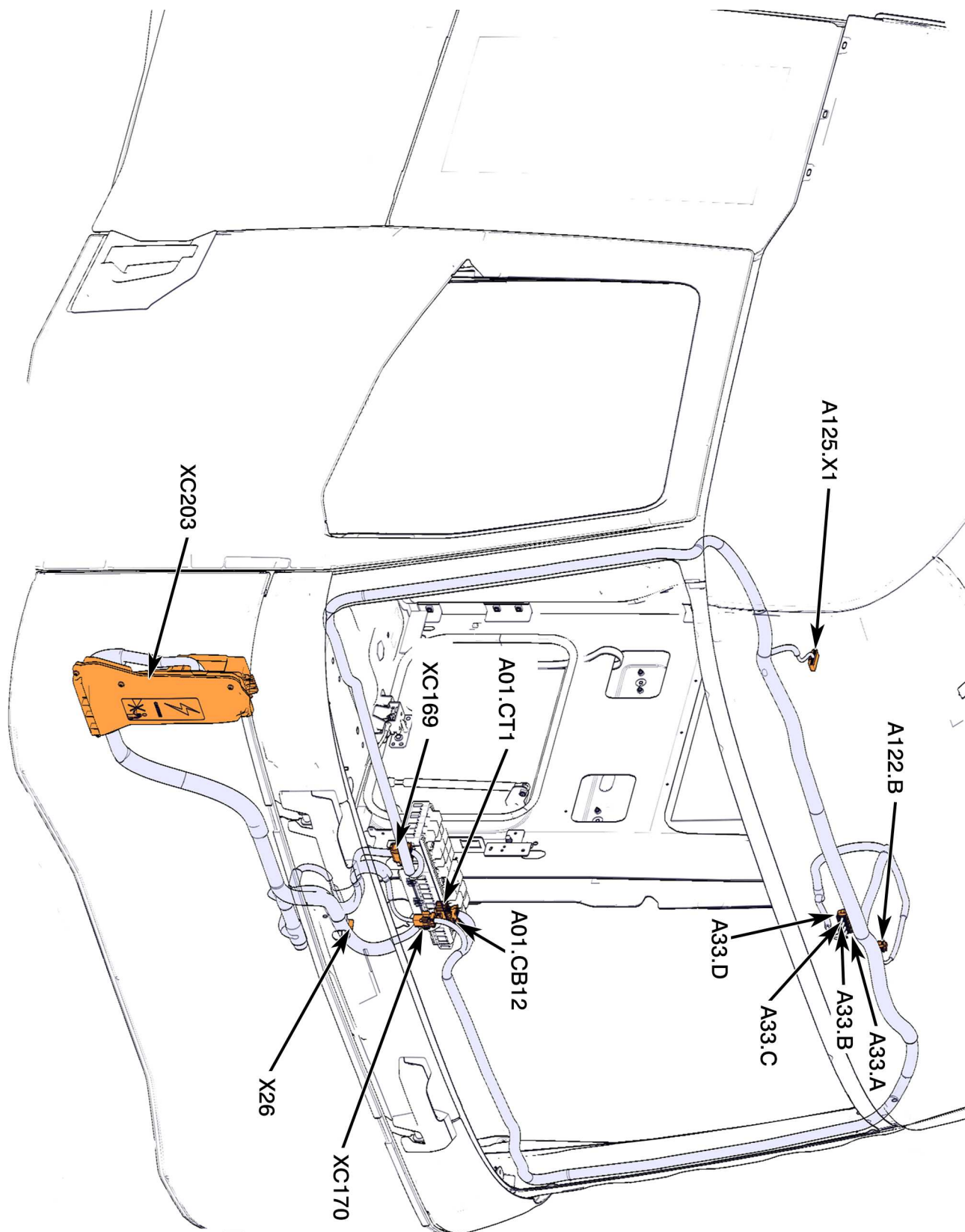
Information display wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB3_p1	NL	7
A01	Electrical distribution box in cab	A01.CB3_p2	BK	18
A01	Electrical distribution box in cab	A01.CB12_p1	NL	7
A01	Electrical distribution box in cab	A01.CB12p2	BK	18
A03A	Main information display	A03A.A	BK	12
A03A	Main information display	A03A.B	BK	12
A154	Video display	A154A.A	-	2
A154	Video display	A154A.B	BK	6
A161	Man/machine interface management control unit (HMI/OM)	A161	BK	26
A169	Video control unit (VS)	A169.A	-	-
A169	Video control unit (VS)	A169.B	-	-
A169	Video control unit (VS)	A169.C	-	-
A169	Video control unit (VS)	A169.D	-	-
A175	Additional telematics management control unit (TESP)	A175.X2	-	2
A230	Touch screen secondary information display (SID)	A230.A	-	-
A230	Touch screen secondary information display (SID)	A230.B	-	-
A231	Service and entertainment module (SEM)	A231.A	BK	16
XC181	Plug-in connector between the dashboard harness and the video control unit harness	XC181	BU	6

* : vehicles manufactured before **10/09/2018**

** : vehicles manufactured after **09/09/2018**

Tachograph wiring harness routing

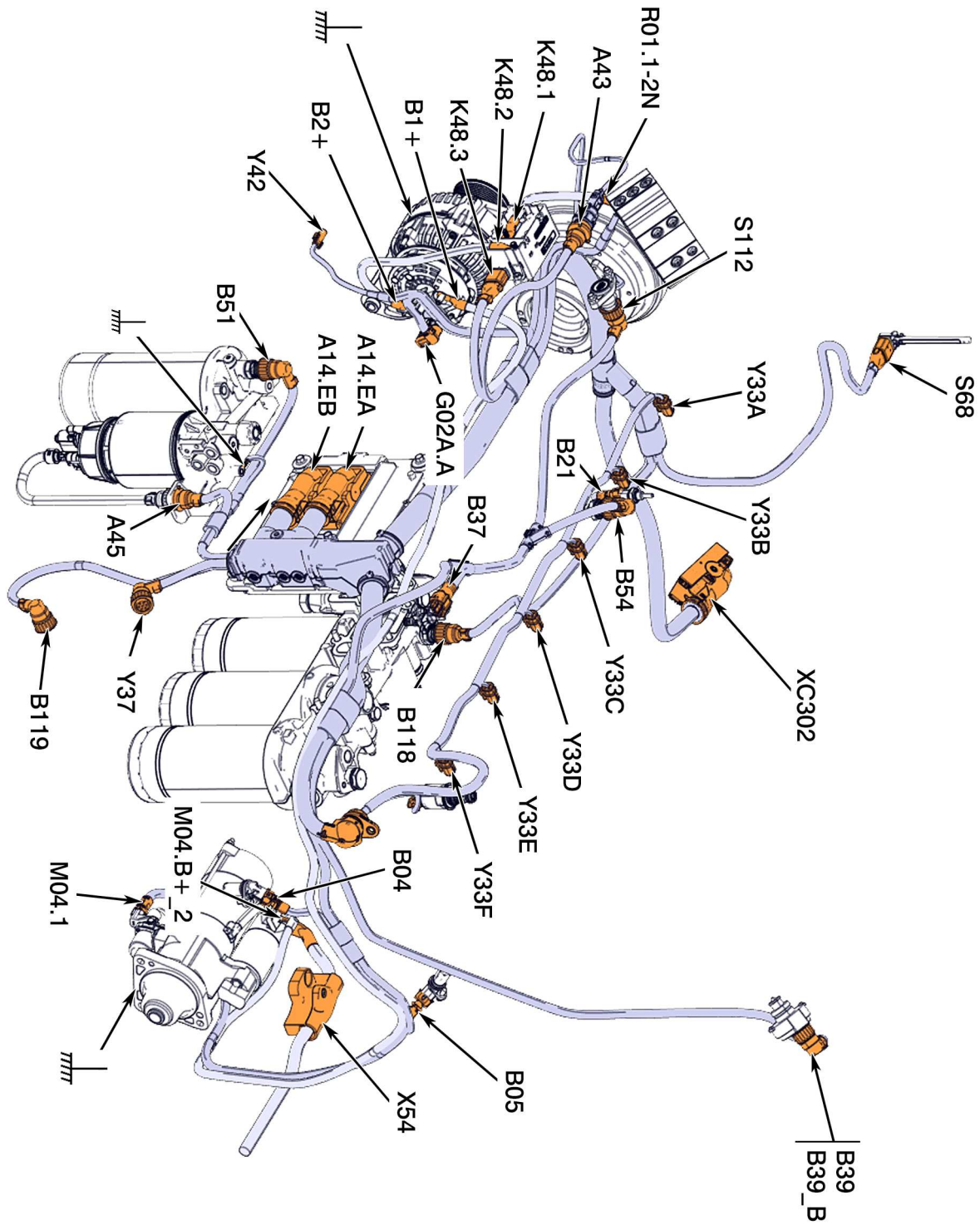


T3099252

Tachograph wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_P1	NL	7
A01	Electrical distribution box in cab	A01.CB12_P2	BK	18
A01	Electrical distribution box in cab	A01.CT1_P1	BK	18
A01	Electrical distribution box in cab	A01.CT1_P2	BK	9
A01	Electrical distribution box in cab	A01.CT1_P3	NL	9
A33	Tachograph	A33.A	WH	8
A33	Tachograph	A33.B	YE	8
A33	Tachograph	A33.C	RD	8
A33	Tachograph	A33.D	BN	8
A122	Remote payment system management control unit	A122.B	YE	8
A125	On-board management system interface control unit	A125.X1	GY	40
X26	Onboard management pre-arrangement (ECU)	X26	GN	12
XC169	Plug-in connector between dashboard harness and console harness	XC16 9_p1	NL	7
XC169	Plug-in connector between dashboard harness and console harness	XC169_p2	BK	18
XC170	Plug-in connector between dashboard harness and console harness	XC170	VT	12
XC203	Plug-in connector between dashboard harness and chassis front harness	XC203	BN	36

11-litre engine harness routing - Euro III

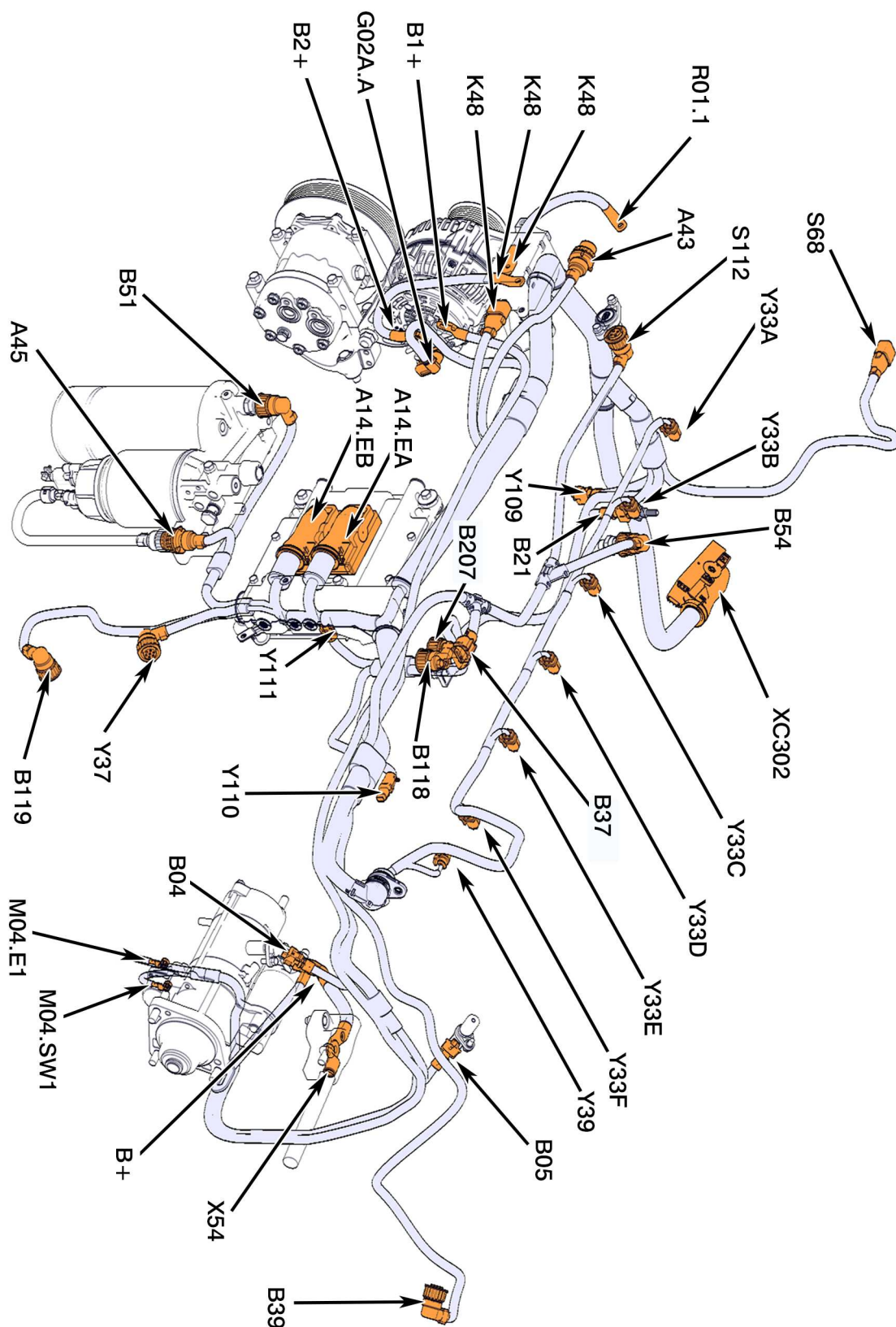


T3116561

11-litre engine harness routing - Euro III

Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	BK	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	2
B51	Engine boost pressure sensor	B51	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
G02	Alternator	B1+	-	1
G02	Alternator	B2+	GR	1
G02	Alternator	G02A.A	SB	4
K48	Intake air preheating power supply relay	K48.3	SB	3
K48	Intake air preheating power supply relay	K48.1	-	1
K48	Intake air preheating power supply relay	K48..2	-	1
M04	Starter	B+_2	-	1
M04	Starter	M04.1	GR	2
R01	Intake air preheating resistor	R01.1–2N	-	1
S68	Engine coolant level sensor	S68	SB	2
S112	Engine shut down control	S112	SB	4
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
Y33A	No. 1 cylinder injector solenoid valve	Y33A	-	4
Y33B	No. 2 cylinder injector solenoid valve	Y33B	-	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	-	4
Y33D	No. 4 cylinder injector solenoid valve	Y33D	-	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	-	4
Y33F	No. 6 cylinder injector solenoid valve	Y33F	-	4
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7
Y39	VTC engine brake solenoid valve	Y39	-	2
Y42	Air conditioning compressor electric clutch	Y42	-	6

11-litre engine harness routing - Euro V



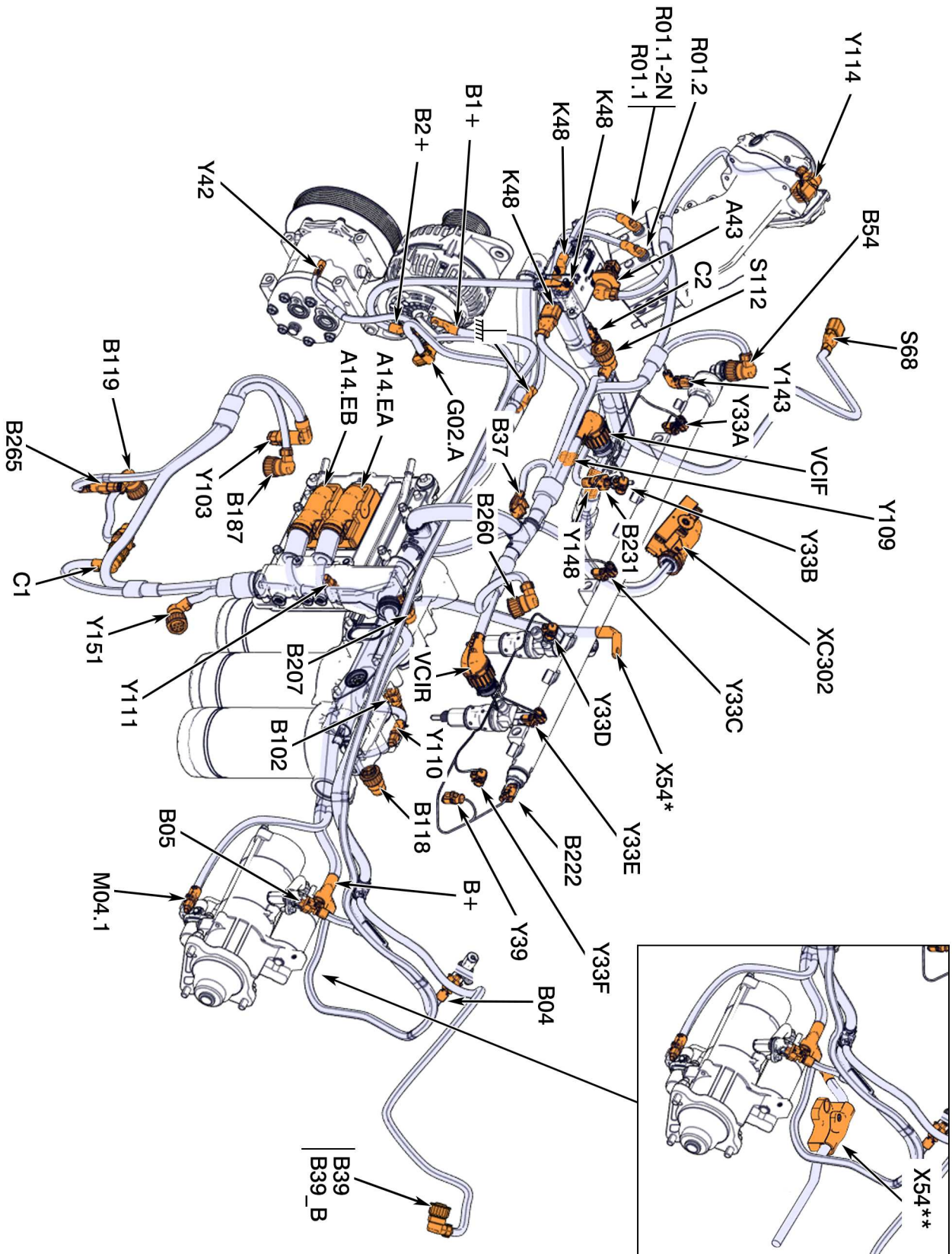
T3116470

11-litre engine harness routing - Euro V

Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	BK	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	2
B51	Engine boost pressure sensor	B51	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
B207	Piston cooling oil pressure sensor	B207	SB	4
G02	Alternator	B1+	-	1
G02	Alternator	B2+	GR	1
G02	Alternator	G02A.A	SB	4
K48	Intake air preheating power supply relay	K48.3	SB	3
K48	Intake air preheating power supply relay	K48.B1	-	1
K48	Intake air preheating power supply relay	K48.C1	-	1
M04	Starter	B+	-	1
M04	Starter	M04.E1	GR	2
M04	Starter	M04.S W1	GR	2
R01	Intake air preheating resistor	R01.1	-	1
S68	Engine coolant level sensor	S68	SB	2
S112	Engine shut down control	S112	SB	4
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
Y33A	No. 1 cylinder injector solenoid valve	Y33A	-	4
Y33B	No. 2 cylinder injector solenoid valve	Y33B	-	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	-	4
Y33D	No. 4 cylinder injector solenoid valve	Y33D	-	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	-	4
Y33F	No. 6 cylinder injector solenoid valve	Y33F	-	4
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7

Y39	VTC engine brake solenoid valve	Y39	-	2
Y109	Water pump electromagnetic clutch	Y109	SB	2
Y110	Oil cooling solenoid valve	Y110	GR	2
Y111	Piston cooling solenoid valve	Y111	GR	2

11-litre engine harness routing - Euro VI



T3116471

11-litre engine harness routing - Euro VI

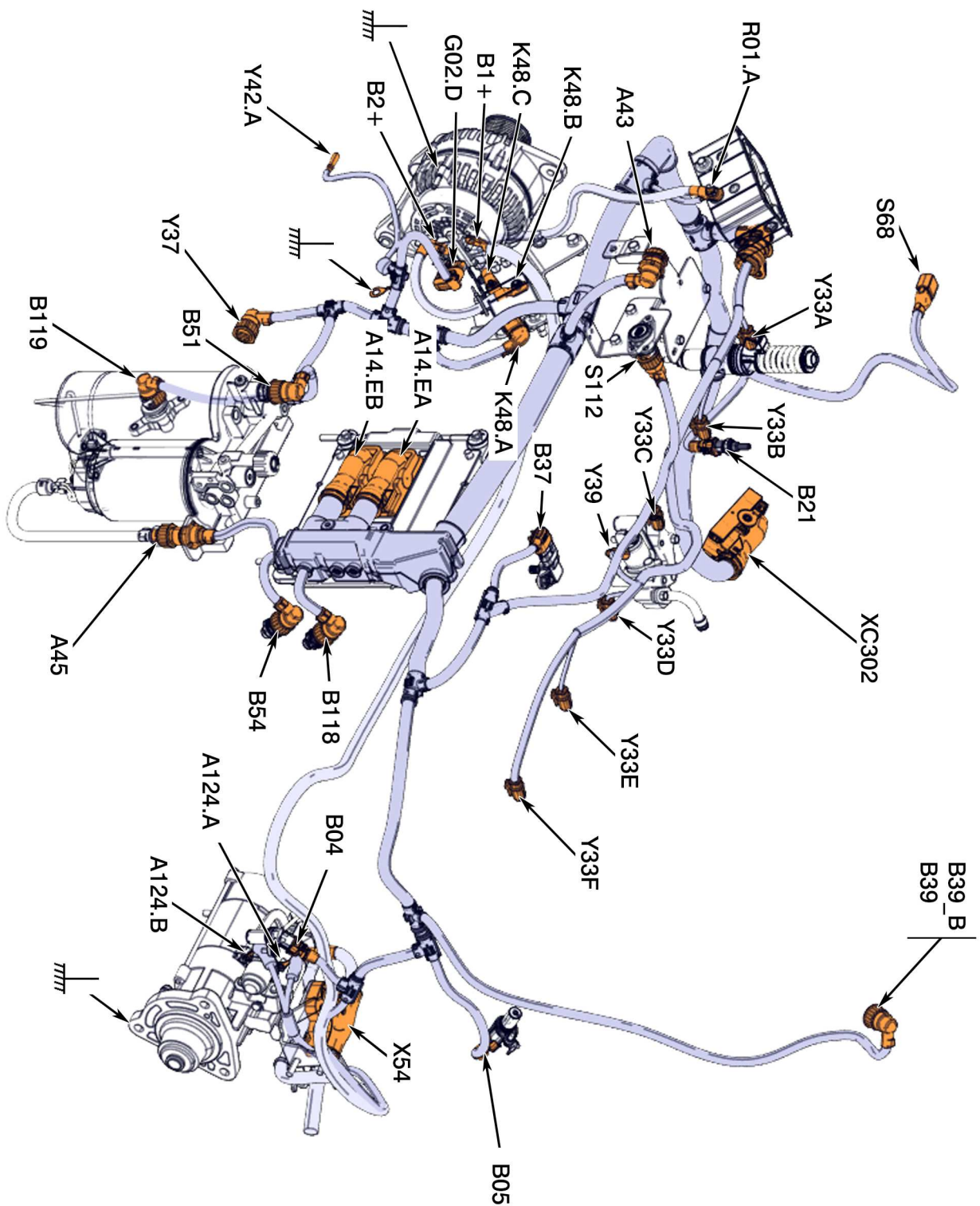
Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	BK	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	2
B54	Pressure sensor inside engine block	B54	SB	4
B102	Oil temperature sensor on oil filter holder	B102	SB	2
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
B187	Diesel fuel pressure sensor for exhaust injector	B187	SB	4
B207	Piston cooling oil pressure sensor	B207	SB	4
B222	Rail fuel high pressure sensor	B222	—	3
B231	Engine coolant circuit temperature sensor	B231	SB	2
B260	Exhaust back-pressure sensor	B260	SB	4
B265	Fuel heating unit	B265	GR	4
C1	Connector between the engine wiring harness and the engine oil level and temperature sensor	C1	SB	4
C2	Connector between the engine wiring harness and the engine coolant circuit temperature sensor	C2	GR	2
G02	Alternator	B+	-	1
G02	Alternator	B2+	GR	1
G02	Alternator	G02.A	SB	4
K48	Intake air preheating power supply relay	K48.1	SB	4
K48	Intake air preheating power supply relay	K48.2	-	1
K48	Intake air preheating power supply relay	K48.3	-	1
M04	Starter	B+	-	1
M04	Starter	M04.1	GR	2
R01	Intake air preheating resistor	R01.1	-	1
R01	Intake air preheating resistor	R01.1–2N	-	1
R01	Intake air preheating resistor	R01.2	-	1
S68	Engine coolant level sensor	S68	SB	2
S112	Engine shut down control	S112	SB	2
VCI	Plug-in connector between engine harness and injectors harness	VCIF	SB	14
VCI2	Plug-in connector between engine harness and injectors harness	VCIR	SB	14

X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
Y33A	No. 1 cylinder injector solenoid valve	Y33A	-	2
Y33B	No. 2 cylinder injector solenoid valve	Y33B	-	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	-	2
Y33D	No. 4 cylinder injector solenoid valve	Y33D	-	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	-	2
Y33F	No. 6 cylinder injector solenoid valve	Y33F	-	4
Y39	VTC engine brake solenoid valve	Y39	-	2
Y42	Air conditioning compressor electric clutch	Y42	-	1
Y103	Exhaust injector solenoid valve	Y103	SB	6
Y109	Water pump electromagnetic clutch	Y109	SB	2
Y110	Oil cooling solenoid valve	Y110	GR	2
Y111	Piston cooling solenoid valve	Y111	GR	2
Y114	Air flow regulation solenoid valve	Y114	SB	6
Y143	Rail high pressure regulation solenoid valve	Y143	-	2
Y148	Exhaust gas recirculation solenoid valve	Y148	GR	3
Y151	Solenoid valve assembly for exhaust braking	Y151	SB	7

* : for vehicles manufactured before **30/11/2014**

** : for vehicles manufactured after **01/12/2014**

13-litre engine harness routing - Euro III

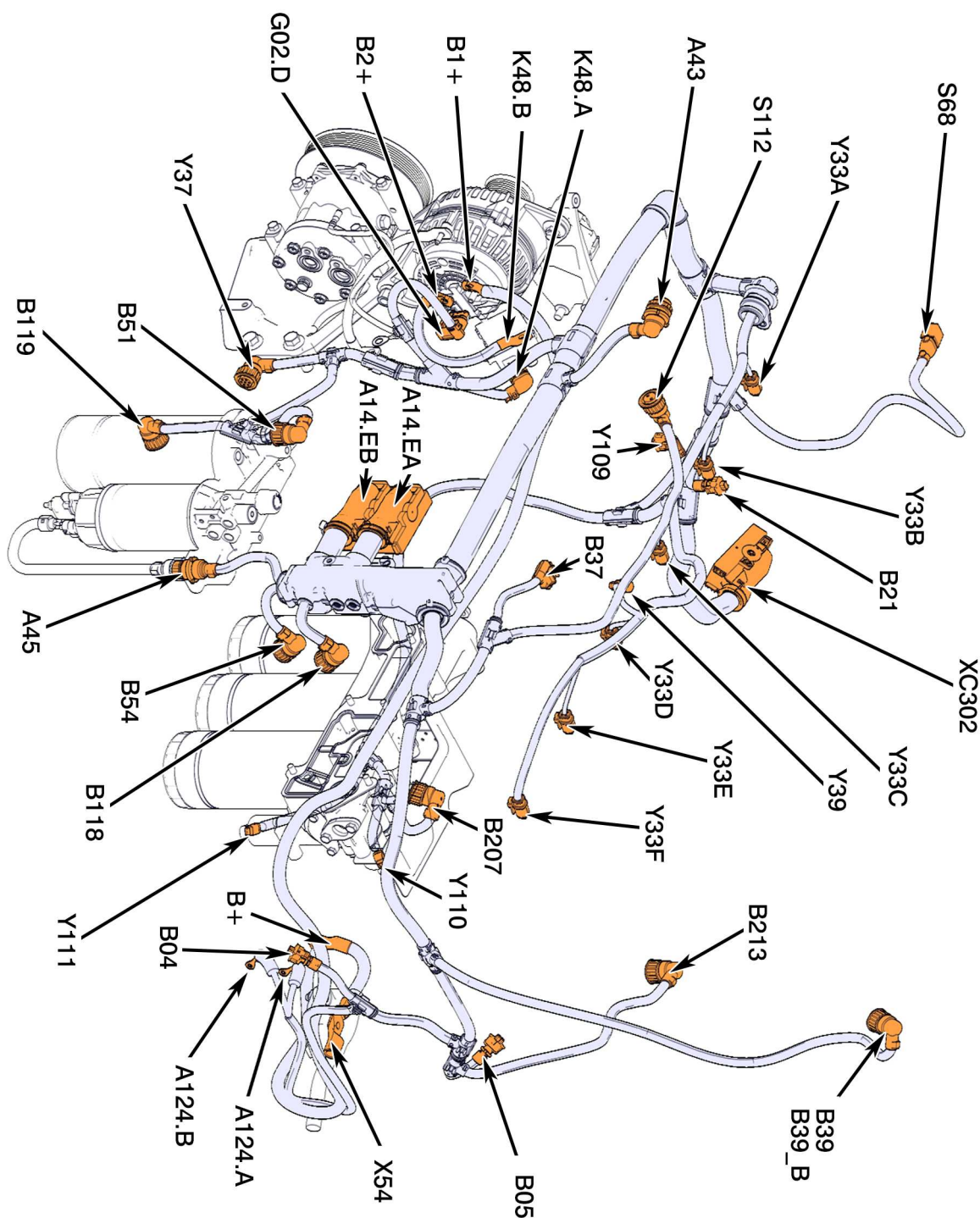


T3116562

13-litre engine harness routing - Euro III

Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	BK	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
A124	Starter motor assembly	A124. A	NA	1
A124	Starter motor assembly	A124. B	NA	1
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	2
B51	Engine boost pressure sensor	B51	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
G02	Alternator	B1+	-	-
G02	Alternator	B2+	-	-
G02	Alternator	G02.D	GR	5
K48	Intake air preheating power supply relay	K48.A	SB	3
K48	Intake air preheating power supply relay	K48.B1	-	1
K48	Intake air preheating power supply relay	K48.C	NA	1
R01	Intake air preheating resistor	R01.A	-	1
S68	Engine coolant level sensor	S68	SB	2
S112	Engine shut down control	S112	SB	2
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	32
Y33A	No. 1 cylinder injector solenoid valve	Y33A	SB	4
Y33B	No. 2 cylinder injector solenoid valve	Y33B	SB	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	SB	4
Y33D	No. 4 cylinder injector solenoid valve	Y33D	SB	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	SB	4
Y33F	No. 6 cylinder injector solenoid valve	Y33F	SB	4
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7
Y39	VTC engine brake solenoid valve	Y39	SB	2
Y42	Air conditioning compressor electric clutch	Y42.A	SB	1

13-litre engine harness routing - Euro V



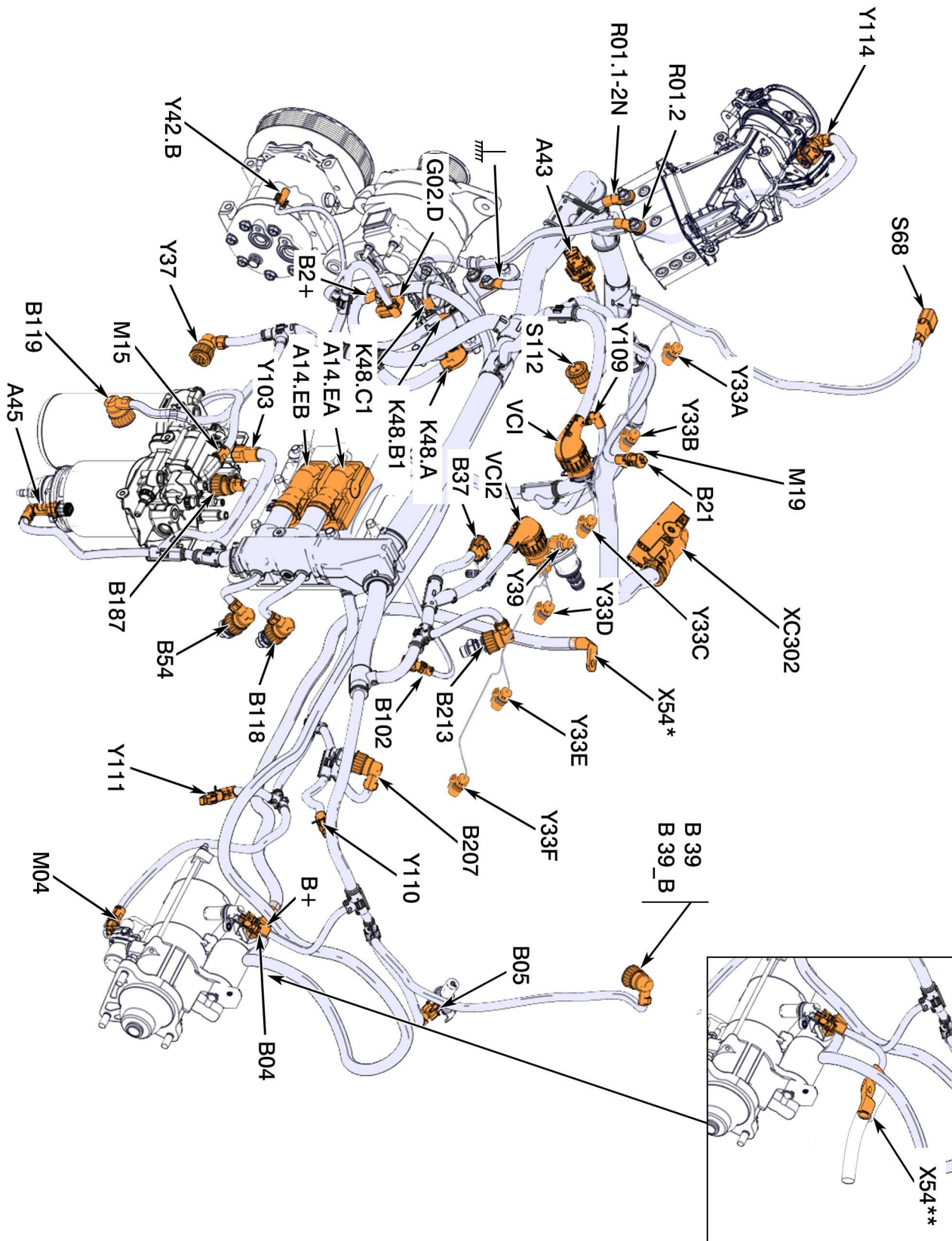
T3116262

13-litre engine harness routing - Euro V

Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	BK	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
A124	Starter motor assembly	A124. A	NA	1
A124	Starter motor assembly	A124. B	NA	1
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	2
B51	Engine boost pressure sensor	B51	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
B207	Piston cooling oil pressure sensor	B207	SB	4
B213	Exhaust back-pressure sensor	B213	SB	4
G02	Alternator	B1+	-	-
G02	Alternator	B2+	-	-
G02	Alternator	G02.D	GR	5
K48	Intake air preheating power supply relay	K48.A	SB	3
K48	Intake air preheating power supply relay	K48.B	-	1
S68	Engine coolant level sensor	S68	SB	2
S112	Engine shut down control	S112	SB	2
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	32
Y33A	No. 1 cylinder injector solenoid valve	Y33A	SB	4
Y33B	No. 2 cylinder injector solenoid valve	Y33B	SB	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	SB	4
Y33D	No. 4 cylinder injector solenoid valve	Y33D	SB	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	SB	4
Y33F	No. 6 cylinder injector solenoid valve	Y33F	SB	4
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7
Y39	VTC engine brake solenoid valve	Y39	SB	2
Y109	Water pump electromagnetic clutch	Y109	SB	2

Y110	Oil cooling solenoid valve	Y110	GR	2
Y111	Piston cooling solenoid valve	Y111	GR	2

13-litre engine harness routing – Euro VI - Phase 1 (OBDEP-A)



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13-litre engine harness routing – Euro VI - Phase 1 (OBDEP-A)

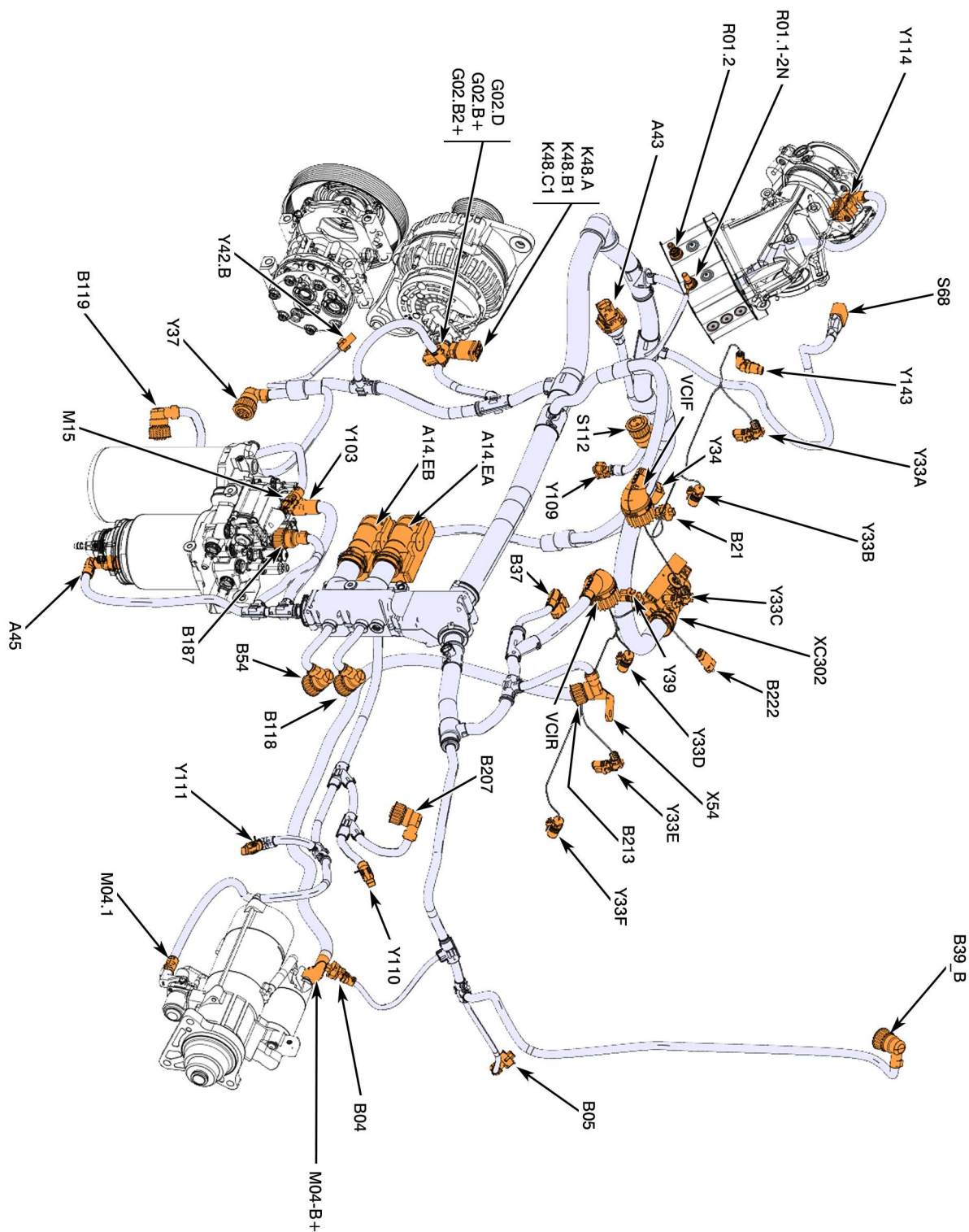
Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	SB	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39	Air filter pressure and temperature sensor	B39	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B102	Oil temperature sensor on oil filter holder	B102	SB	2
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
B187	Diesel fuel pressure sensor for exhaust injector	B187	SB	4
B207	Piston cooling oil pressure sensor	B207	SB	4
B213	Exhaust back-pressure sensor	B213	SB	4
G02	Alternator	B2+	-	1
G02	Alternator	G02.D	GR	5
K48	Intake air preheating power supply relay	K48.A	SB	3
K48	Intake air preheating power supply relay	K48.B1	-	1
K48	Intake air preheating power supply relay	K48.C1	-	1
M04	Starter	B+	-	1
M04	Starter	M04	GR	2
M15	Electric fuel priming pump	M15	GR	2
M19	Exhaust gas recirculation solenoid valve	M19	GR	2
R01	Intake air preheating resistor	R01.1–2N	-	1
R01	Intake air preheating resistor	R01.2	-	1
S68	Engine coolant level sensor	S68	SB	3
S112	Engine shut down control	S112	SB	4
VCI	Plug-in connector between engine harness and injectors harness	VCI	SB	12
VCI2	Plug-in connector between engine harness and injectors harness	VCI2	SB	14
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	32
Y33A	No. 1 cylinder injector solenoid valve	Y33A	-	2
Y33B	No. 2 cylinder injector solenoid valve	Y33B	-	4

Y33C	No. 3 cylinder injector solenoid valve	Y33C	-	2
Y33D	No. 4 cylinder injector solenoid valve	Y33D	-	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	-	2
Y33F	No. 6 cylinder injector solenoid valve	Y33F	-	4
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7
Y39	VTC engine brake solenoid valve	Y39	-	2
Y42	Air conditioning compressor electric clutch	Y42.B	SB	1
Y103	Exhaust injector solenoid valve	Y103	SB	6
Y109	Water pump electromagnetic clutch	Y109	SB	2
Y110	Oil cooling solenoid valve	Y110	SB	2
Y111	Piston cooling solenoid valve	Y111	SB	2
Y114	Air flow regulation solenoid valve	Y114	SB	6

* : for vehicles manufactured before **30/11/2014**

** : for vehicles manufactured after **01/12/2014**

13-litre engine harness routing – Euro VI - Phase 2 (OBDEP-C)



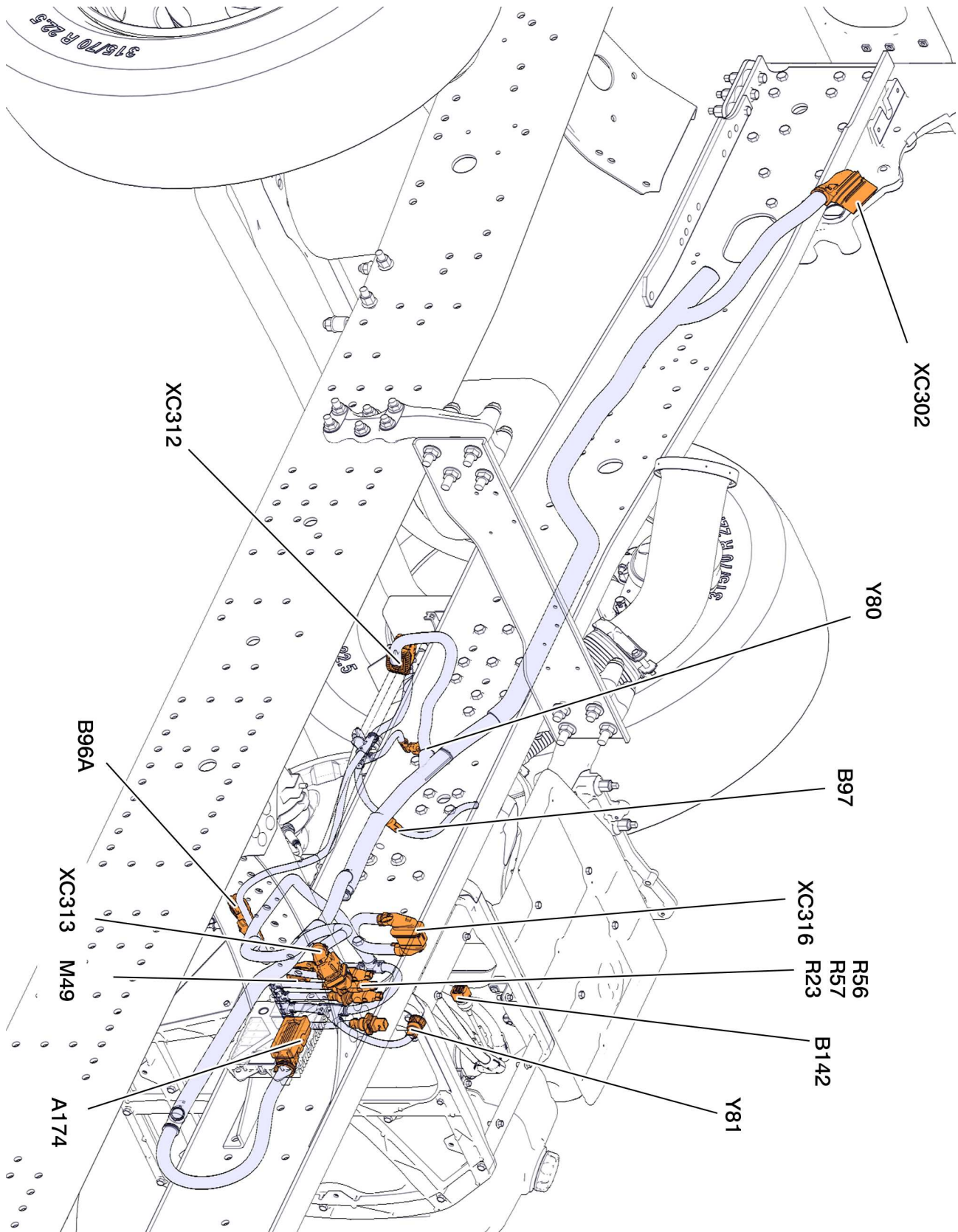
T3129682

13-litre engine harness routing – Euro VI - Phase 2 (OBDEP-C)

Code	Function description	Connector	Colour	No. of pins
A14	Engine electronic control unit (EECU)	A14.EA	SB	62
A14	Engine electronic control unit (EECU)	A14.EB	GR	62
A43	Engine fan speed regulator unit	A43	SB	6
A45	Fuel heating unit	A45	GR	4
B04	Engine speed sensor on engine flywheel	B04	SB	2
B05	Engine speed sensor on camshaft	B05	SB	2
B21	Engine coolant circuit temperature sensor	B21	SB	2
B37	Turbocharging circuit air pressure and temperature sensors assembly	B37	SB	4
B39_B	Air filter pressure sensor	B39_B	SB	4
B54	Pressure sensor inside engine block	B54	SB	4
B118	Engine oil pressure sensor	B118	SB	4
B119	Engine oil level and temperature sensor assembly	B119	SB	4
B187	Diesel fuel pressure sensor for exhaust injector	B187	SB	4
B207	Piston cooling oil pressure sensor	B207	SB	4
B213	Exhaust back-pressure sensor	B213	SB	4
B222	Rail fuel high pressure sensor	B222	-	3
G02	Alternator	G02.B+	-	1
G02	Alternator	G02.B2+	-	1
G02	Alternator	G02.D	GR	5
K48	Intake air preheating power supply relay	K48.A	SB	3
K48	Intake air preheating power supply relay	K48.B1	-	1
K48	Intake air preheating power supply relay	K48.C1	-	1
M04	Starter	M04-B+	-	1
M04	Starter	M04.1	GR	2
M15	Electric fuel priming pump	M15	GR	2
R01	Intake air preheating resistor	R01.1–2N	-	1
R01	Intake air preheating resistor	R01.2	-	1
S68	Engine coolant level sensor	S68	SB	3
S112	Engine shut down control	S112	SB	4
VCIF	Plug-in connector between engine harness and injectors harness	VCIF	SB	12
VCIR	Plug-in connector between engine harness and injectors harness	VCIR	SB	44
X54	Starter power supply lead intermediate connector	X54	-	1
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	32
Y33A	No. 1 cylinder injector solenoid valve	Y33A	-	2
Y33B	No. 2 cylinder injector solenoid valve	Y33B	-	4
Y33C	No. 3 cylinder injector solenoid valve	Y33C	-	2

Y33D	No. 4 cylinder injector solenoid valve	Y33D	-	4
Y33E	No. 5 cylinder injector solenoid valve	Y33E	-	2
Y33F	No. 6 cylinder injector solenoid valve	Y33F	-	4
Y34	Exhaust gas recirculation solenoid valve	Y34	GY	3
Y37	Solenoid valve assembly for exhaust braking	Y37	SB	7
Y39	VTC engine brake solenoid valve	Y39	-	2
Y42	Air conditioning compressor electric clutch	Y42.B	SB	1
Y103	Exhaust injector solenoid valve	Y103	SB	6
Y109	Water pump electromagnetic clutch	Y109	SB	2
Y110	Oil cooling solenoid valve	Y110	SB	2
Y111	Piston cooling solenoid valve	Y111	SB	2
Y114	Air flow regulation solenoid valve	Y114	SB	6
Y143	Rail high pressure regulation solenoid valve	Y143	SB	2

Urea supply system wiring harness routing, Euro V

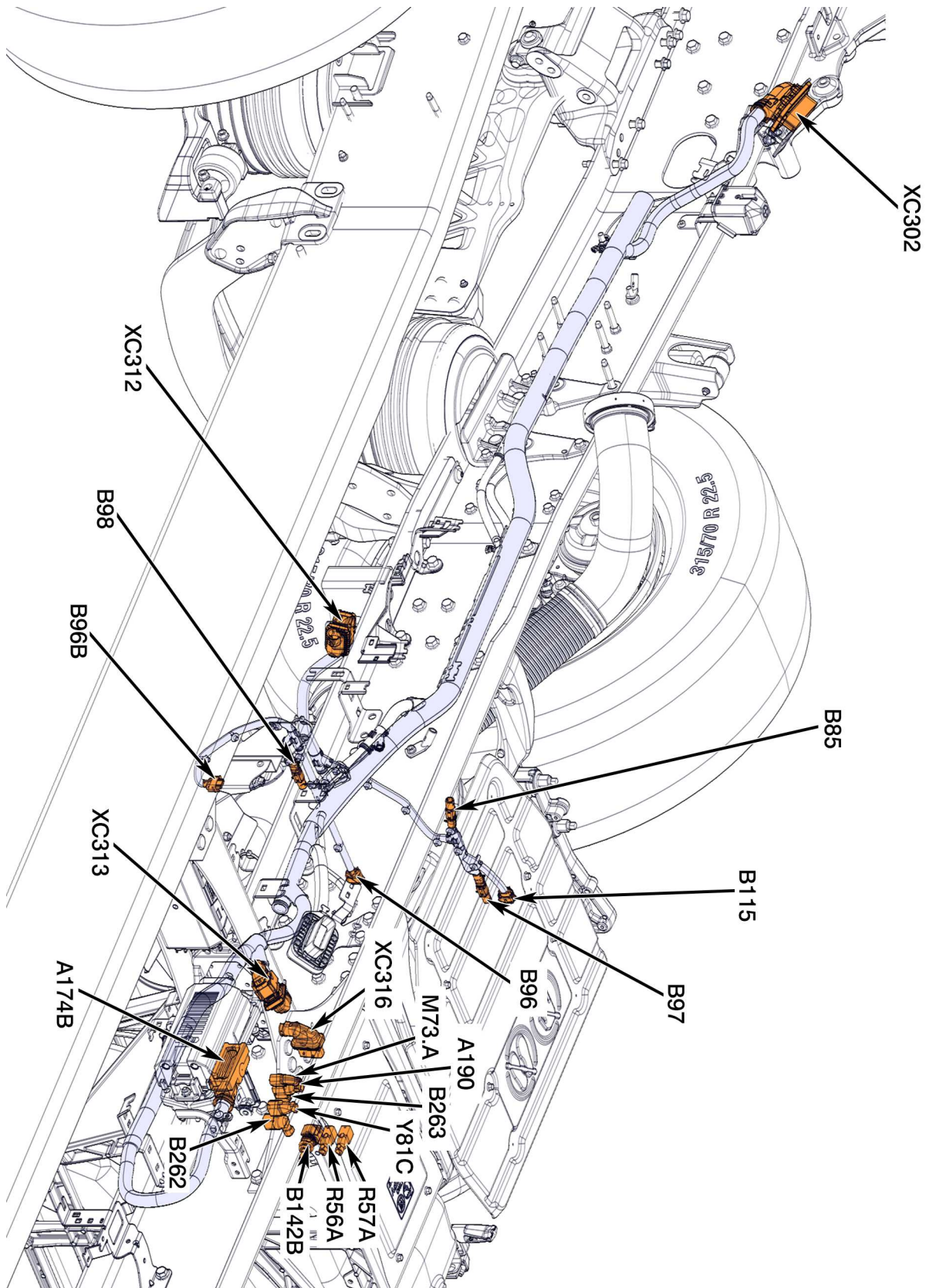


T3099256

Urea supply system wiring harness routing, Euro V

Code	Function description	Connector	Colour	No. of pins
A174	Exhaust gas after-treatment control module (ACM)	A174	GY	62
B96A	Nitrogen oxide concentration sensor upstream of catalytic converter	B96A	SB	4
B97	Exhaust gas temperature sensor upstream of catalytic converter	B97	GR	2
B142	Urea tank temperature and level sensor assembly	B142	BK	4
M49	Urea supply pump module assembly	M49	GY	12
R23	Urea heating resistor (on the circuit between the injector and the tank, red hose)	R23	BK	2
R56	Urea heating resistor (on the circuit between the tank and the pump module, white hose)	R56	GN	2
R57	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	R57	GN	2
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
XC312	Plug-in connector between the chassis front harness and the catalytic converter harness	XC312	BK	21
XC313	Plug-in connector between the chassis front harness and the urea supply management harness extension	XC313	BK	21
XC316	Plug-in connector between the urea supply management harness extension and the urea supply management harness	XC316	BK	16
Y80	Urea supply metering solenoid valve	Y80	SB	2
Y81	Cooling solenoid valve for the urea	Y81	BK	4

Urea supply system wiring harness routing, Euro VI

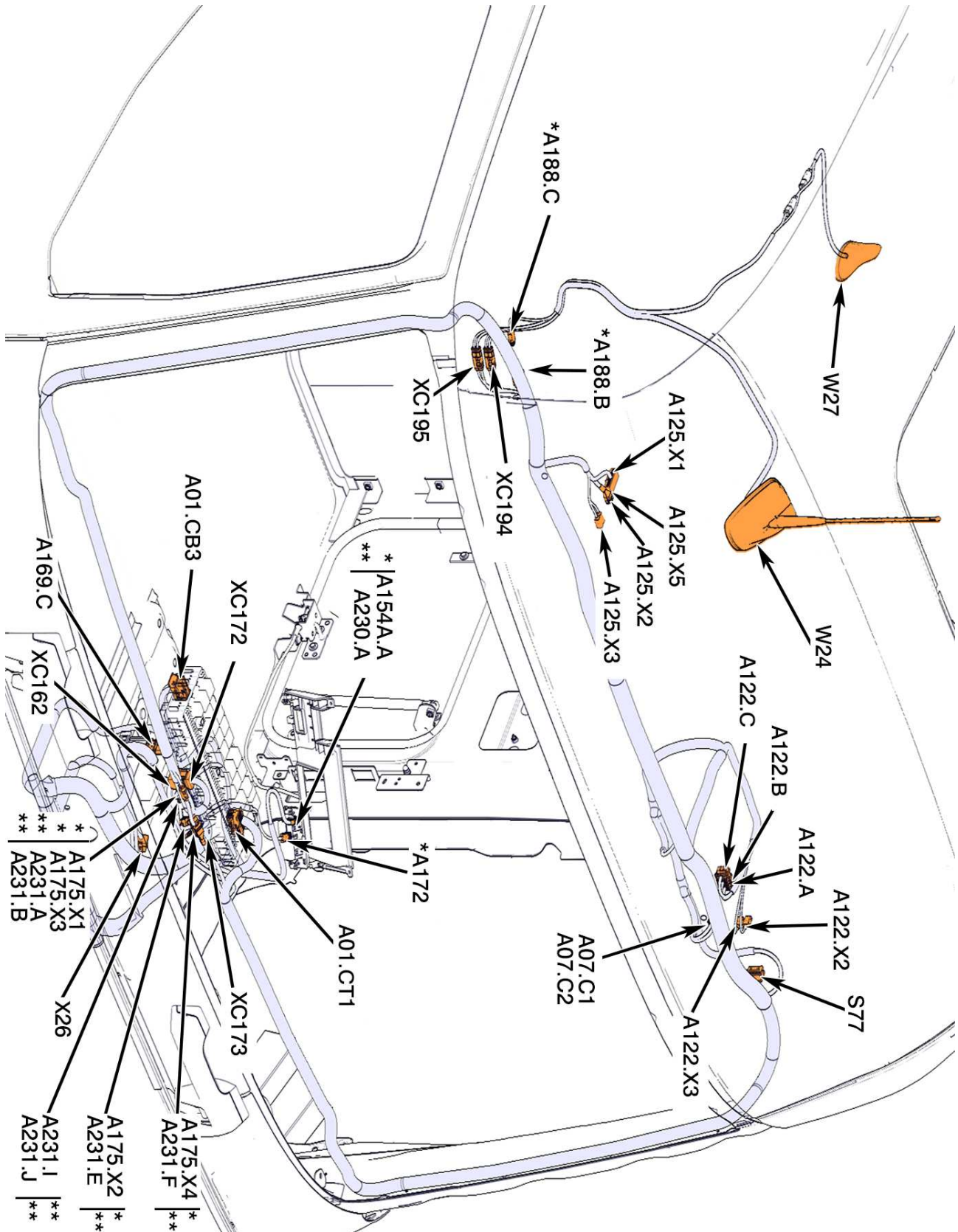


T3099255

Urea supply system wiring harness routing, Euro VI

Code	Function description	Connector	Colour	No. of pins
A174B	Exhaust gas after-treatment control module (ACM)	A174B	GY	62
A190	Air control solenoid and urea temperature sensor assembly	A190	GY	4
B85	Exhaust gas temperature sensor upstream of particulate filter	B85	GR	2
B96	Nitrogen oxide concentration sensor	B96	GR	4
B96B	Nitrogen oxide concentration sensor downstream of catalytic converter	B96B	GR	4
B97	Exhaust gas temperature sensor upstream of catalytic converter	B97	GR	2
B98	Exhaust gas temperature sensor downstream of catalytic converter	B98	GR	2
B115	Exhaust gases relative pressure sensor in the particulate filter	B115	SB	3
B142B	Urea tank temperature and level sensor assembly	B142B	BK	4
B262	Urea pressure sensor	B262	BK	2
B263	Air pressure sensor inside the urea tank	B263	GN	3
M73	Urea supply metering pump	M73.A	BU	2
R56A	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	R56A	BK	2
R57A	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	R57A	GN	2
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
XC312	Plug-in connector between the chassis front harness and the catalytic converter harness	XC312	BK	21
XC313	Plug-in connector between the chassis front harness and the urea supply management harness extension	XC313	BK	21
XC316	Plug-in connector between the urea supply management harness extension and the urea supply management harness	XC316	BK	16
Y81C	Cooling solenoid valve for the urea	Y81C	GY	2

Telematics management system wiring harness routing



T3130643

Telematics management system wiring harness routing

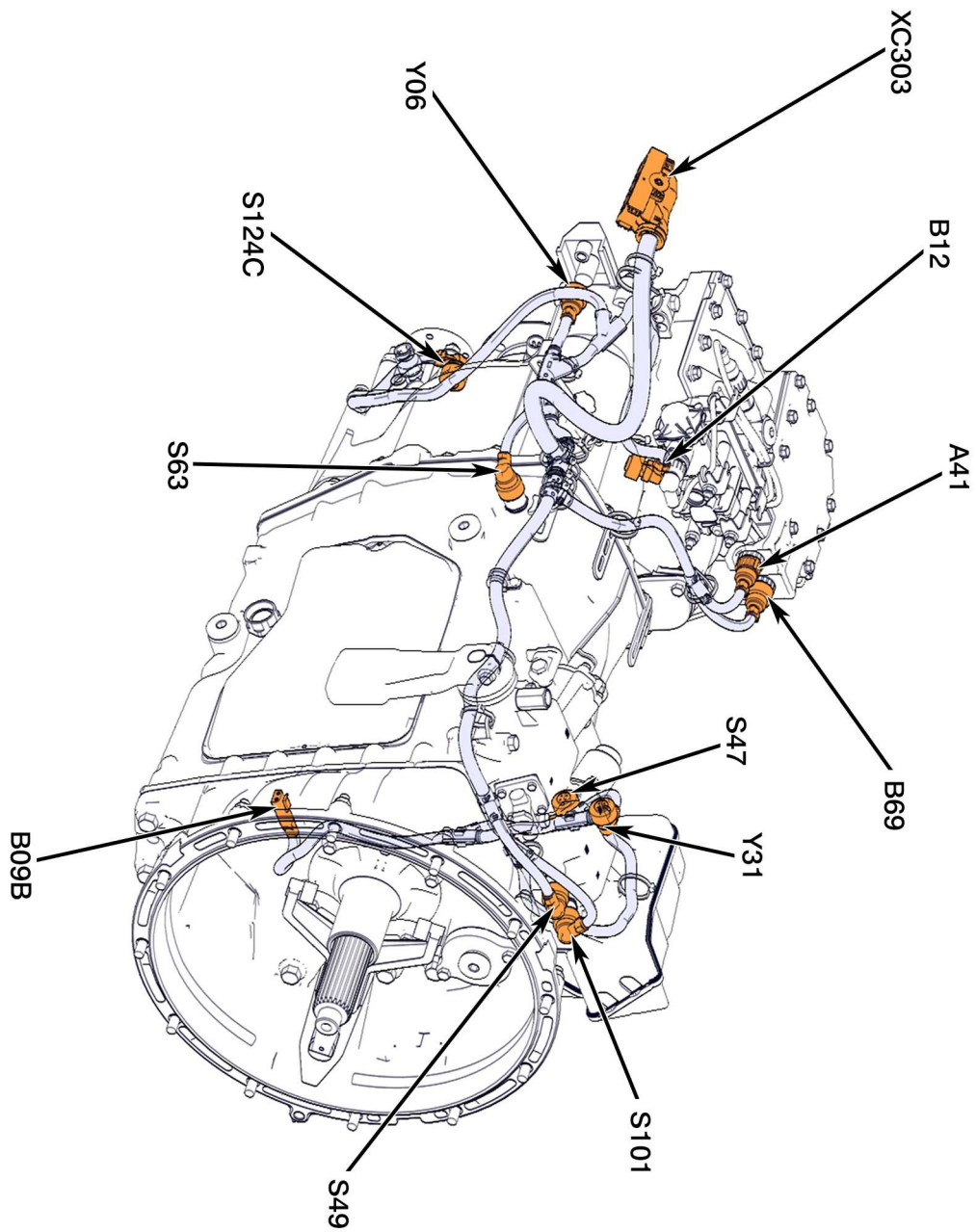
Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB3_p1	NL	7
A01	Electrical distribution box in cab	A01.CB3_p2	BK	18
A01	Electrical distribution box in cab	A01.CT1_p1	BK	18
A01	Electrical distribution box in cab	A01.CT1_p2	BK	9
A01	Electrical distribution box in cab	A01.CT1_p3	NL	9
A07	Radio set	A07.C1	Y	6
A07	Radio set	A07.C2	GN	6
A122	Remote payment system management control unit	A122.A	WH	8
A122	Remote payment system management control unit	A122.B	YE	8
A122	Remote payment system management control unit	A122.C	RD	8
A122	Remote payment system management control unit	A122.X2	NA	2
A122	Remote payment system management control unit	A122.X3	NA	2
A125	On-board management system interface control unit	A125.X1	GY	40
A125	On-board management system interface control unit	A125.X2	NA	2
A125	On-board management system interface control unit	A125.X3	NA	2
A125	On-board management system interface control unit	A125.X5	NA	10
A154	Video display	A154A.A	NA	2
A169	Video control unit (VS)	A169.C	-	-
A172	Infra-red receiver for interconnection between the keypad and the navigation functions management control unit	A172	BK	6
A175	Additional telematics management control unit (TESP)	A175.X1	BK	18
A175	Additional telematics management control unit (TESP)	A175.X2	NA	2
A175	Additional telematics management control unit (TESP)	A175.X3	NA	2
A175	Additional telematics management control unit (TESP)	A175.X4	NA	10
A188	FM signal distributor	A188.B	-	-
A188	FM signal distributor	A188.C	-	-
A230	Touch screen secondary information display (SID)	A230.A	-	-
A231	Service and entertainment module (SEM)	A231.A	BK	16
A231	Service and entertainment module (SEM)	A231.B	BK	12
A231	Service and entertainment module (SEM)	A231.E	BK	1
A231	Service and entertainment module (SEM)	A231.F	BK	1
A231	Service and entertainment module (SEM)	A231.I	BK	1
A231	Service and entertainment module (SEM)	A231.J	BK	1
S77	Emergency call control	S77	BK	10
W24	Satellite antenna and radio set	W27	-	-
W27	GPS antenna	W24	-	-

XC162	Plug-in connector between the FM signal distributor and the supplementary telematics management control unit	XC162	NA	2
XC172	Plug-in connector between dashboard harness and console harness	XC172	GN	12
XC173	Plug-in connector between the onboard management system interface control unit and the supplementary telematics management control unit	XC173	NA	10
XC194	Plug-in connector between satellite antennas and the remote payment system management control unit	XC194	NA	2
XC195	Plug-in connector between satellite antennas and the remote payment system management control unit	XC195	NA	2
X26	Onboard management pre-arrangement (ECU)	X26	GN	12

* : vehicles manufactured before **10/09/2018**

** : vehicles manufactured after **09/09/2018**

Mechanical gearbox wiring harness routing

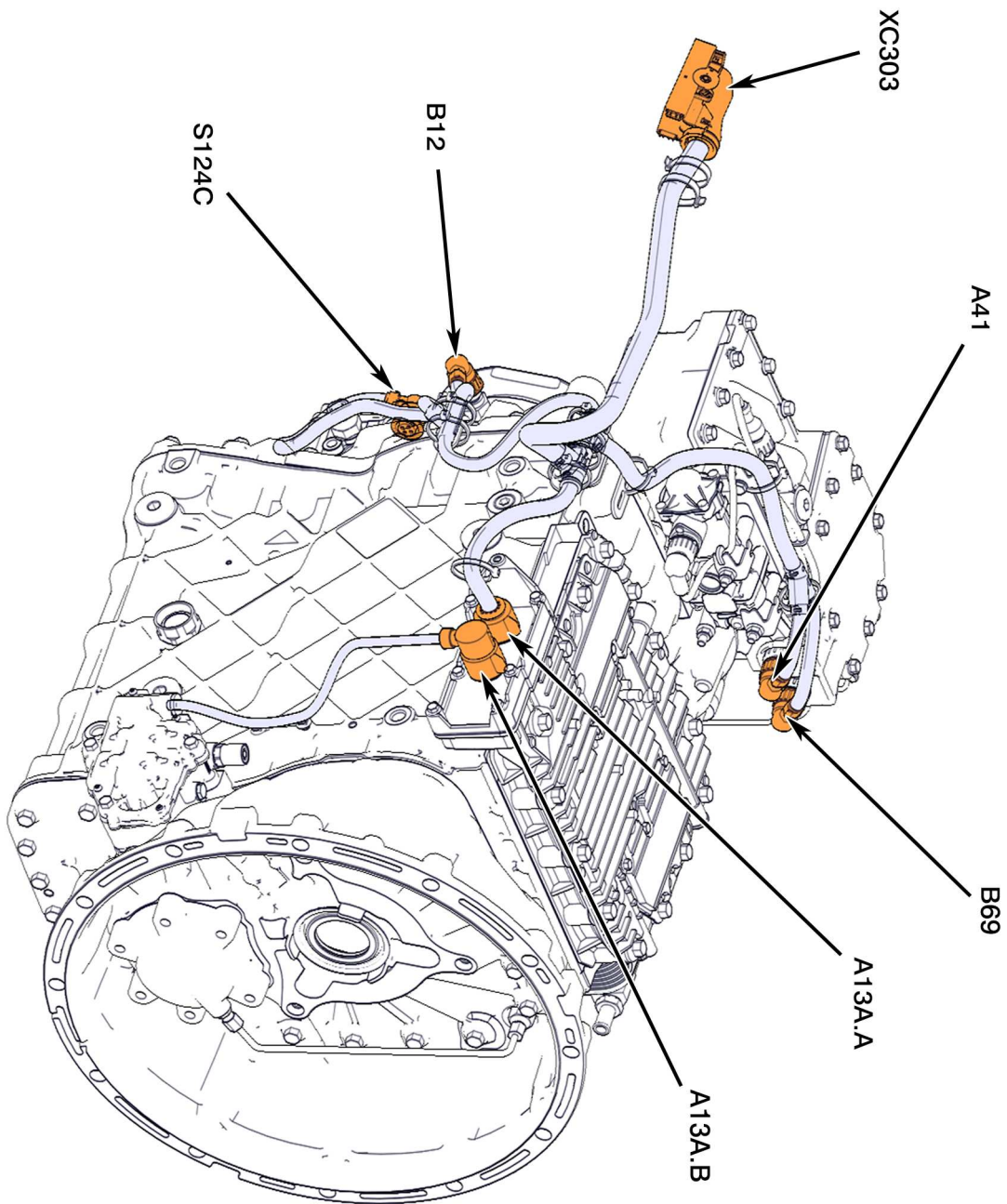


T3102411

Mechanical gearbox wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A41	Retarder equipment unit	A41	R	7
B09B	Gearbox oil temperature sensor	B09B	SB	2
B12	Tachograph vehicle speed sensor	B12	SB	4
B69	Retarder coolant temperature sensor	B69	SB	4
S47	Position sensor - low speed range engaged	S47	SB	4
S49	Position sensor - reverse gear engaged	S49	SB	4
S63	Position sensor - low speed range engaged	S63	SB	4
S101	Position sensor - gear selector in neutral	S101	SB	4
S124C	Power take-off no. 1 position sensor	S124C	SB	4
Y06	Range change locking solenoid valve	Y06	SB	4
Y31	First gear locking solenoid valve	Y31	SB	4
XC303	Plug-in connector between the chassis front harness and the gearbox harness	XC303	GN	39

Automated manual transmission wiring harness routing, Euro V

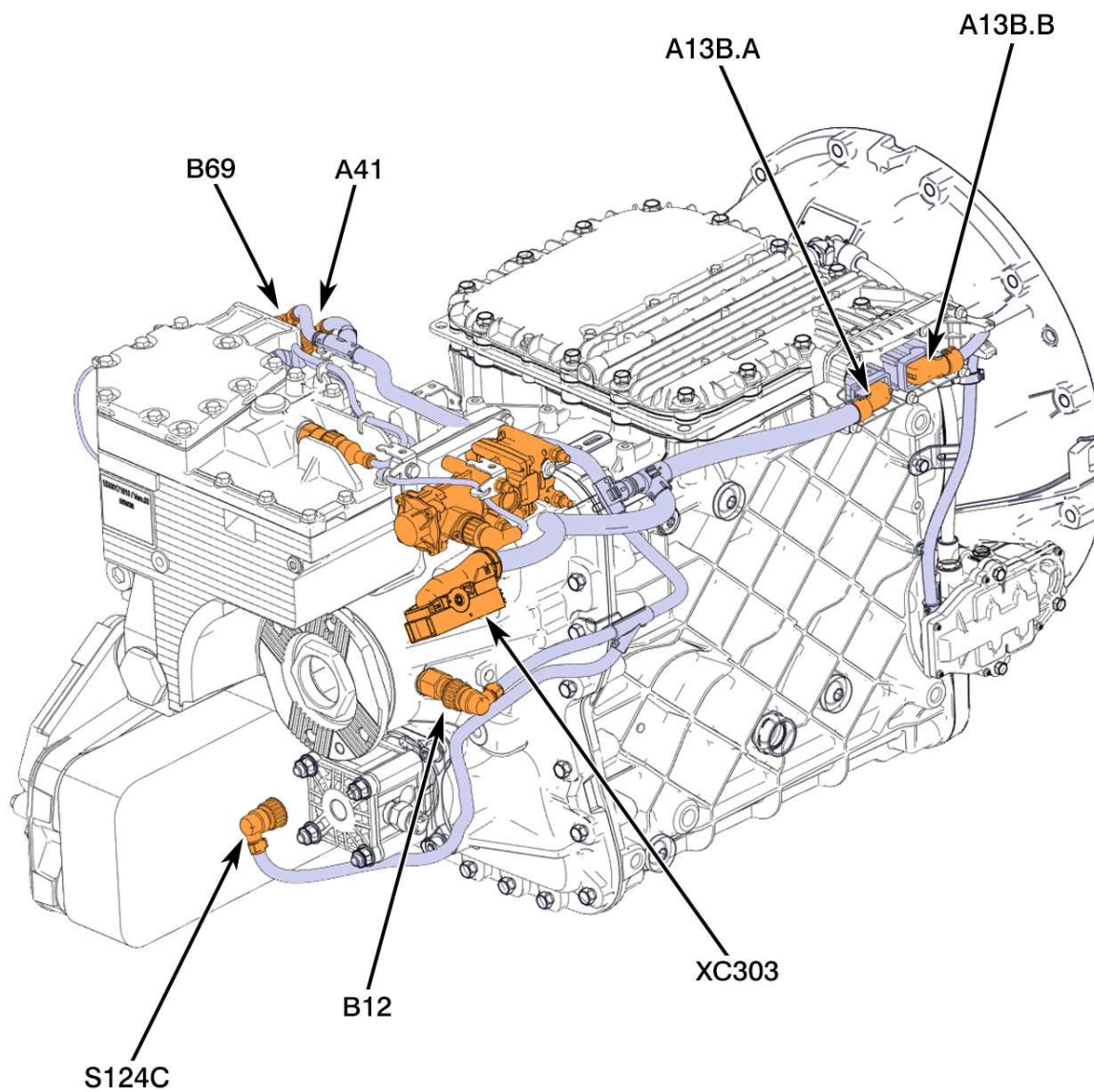


T3099259

Automated manual transmission wiring harness routing, Euro V

Code	Function description	Connector	Colour	No. of pins
A13A	Automated manual transmission management control unit	A13A.A	-	-
A13B	Automated manual transmission management control unit	A13A.B	-	-
A41	Retarder equipment unit	A41	R	7
B12	Tachograph vehicle speed sensor	B12	SB	4
B69	Retarder coolant temperature sensor	B69	SB	4
S124C	Power take-off no. 1 position sensor	S124C	SB	4
XC303	Plug-in connector between the chassis front harness and the gearbox harness	XC303	GN	39

Automated manual transmission wiring harness routing, Euro VI

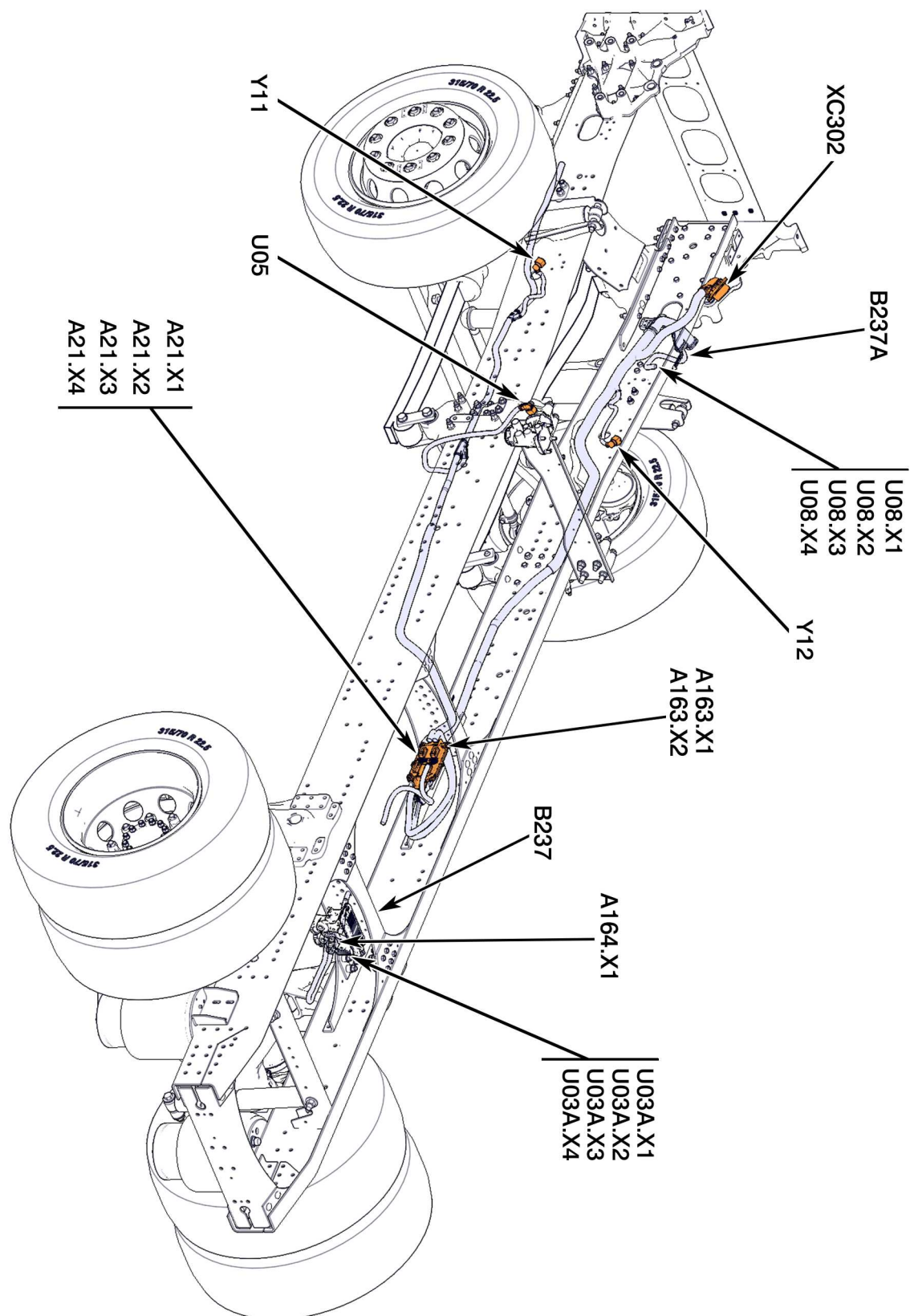


T3099258

Automated manual transmission wiring harness routing, Euro VI

Code	Function description	Connector	Colour	No. of pins
A13B	Automated manual transmission management control unit	A13B.A	-	-
A13B	Automated manual transmission management control unit	A13B.B	-	-
A41	Retarder equipment unit	A41	R	7
B12	Tachograph vehicle speed sensor	B12	SB	4
B69	Retarder coolant temperature sensor	B69	SB	4
S124C	Power take-off no. 1 position sensor	S124C	SB	4
XC303	Plug-in connector between the chassis front harness and the gearbox harness	XC303	GN	39

EBS equipment wiring harness routing

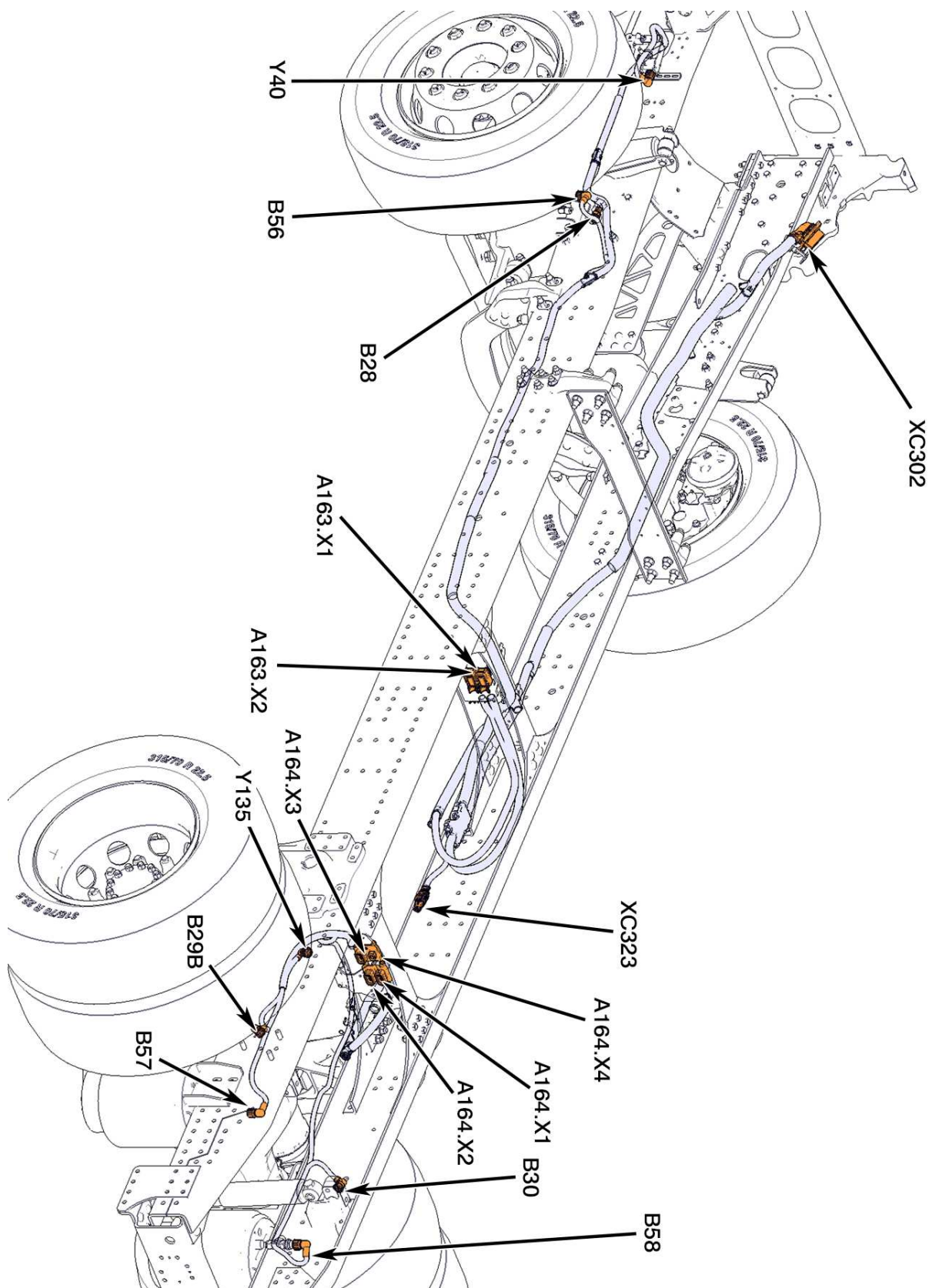


T3122235

EBS equipment wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A21	Electronic braking system control unit (EBS)	A21.X1	BK	16
A21	Electronic braking system control unit (EBS)	A21.X2	GY	18
A21	Electronic braking system control unit (EBS)	A21.X3	BK	18
A21	Electronic braking system control unit (EBS)	A21.X4	BK	12
A163	Central chassis area information management control unit (CCIOM)	A163	BK	89
A164	Rear chassis area information management control unit (RCIOM)	A164	BK	89
B237	Service brake pressure sensor	B237	BK	3
B237A	Service brake pressure sensor	B237A	BK	3
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	U03A.X1	BK	4
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	U03A.X2	BK	6
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	U03A.X3	BK	2
U03A	Braking assistance modulator (drive axle no. 1) (EBS)	U03A.X4	BK	2
U05	Trailer braking assistance modulator (EBS)	U05	BK	7
U08	Braking assistance modulator (front axle) (EBS)	U08.X1	BK	4
U08	Braking assistance modulator (front axle) (EBS)	U08.X2	BK	6
U08	Braking assistance modulator (front axle) (EBS)	U08.X3	BK	2
U08	Braking assistance modulator (front axle) (EBS)	U08.X4	BK	2
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
Y11	Left-hand front wheel ABS solenoid valve	Y11	BK	3
Y12	Right-hand front wheel ABS solenoid valve	Y12	BK	3

Suspension wiring harness routing

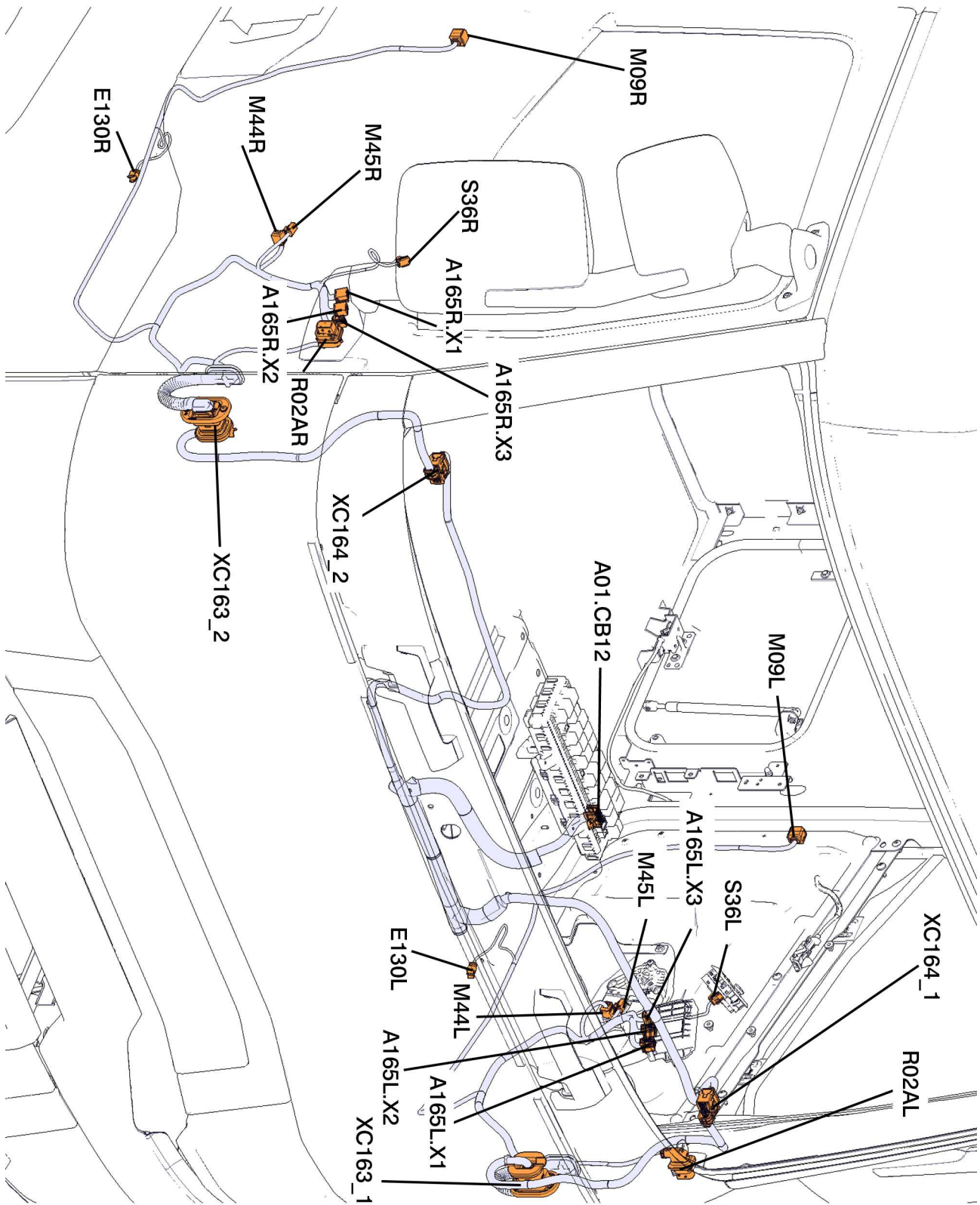


T3099261

Suspension wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A163	Central chassis area information management control unit (CCIOM)	A163.X1	BK	29
A163	Central chassis area information management control unit (CCIOM)	A163.X2	GY	18
A164	Rear chassis area information management control unit (RCIOM)	A164.X1	BK	29
A164	Rear chassis area information management control unit (RCIOM)	A164.X2	GY	29
A164	Rear chassis area information management control unit (RCIOM)	A164.X3	BU	29
A164	Rear chassis area information management control unit (RCIOM)	A164.X4	BK	2
B28	Front axle suspension position sensor	B28	BK	4
B29B	Rear drive axle suspension left-hand position sensor	B29B	BK	4
B30	Rear drive axle suspension right-hand position sensor	B30	BK	4
B56	Sensor for air pressure in front axle suspension air spring	B56	BK	4
B57	Sensor for air pressure in left-hand suspension air spring (rear drive axle no. 1)	B57	BK	4
B58	Sensor for air pressure in right-hand suspension air spring (rear drive axle no. 1)	B58	BK	4
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
XC323	Plug-in connector between the chassis central harness and the power fuse box power supplies harness	XC323	BK	2
Y40	Front suspension solenoid valve	Y40	BK	4
Y135	Rear axle suspension control solenoid valve assembly	Y135	BK	4

Door harness routing (For vehicles manufactured before 2017/06/05)

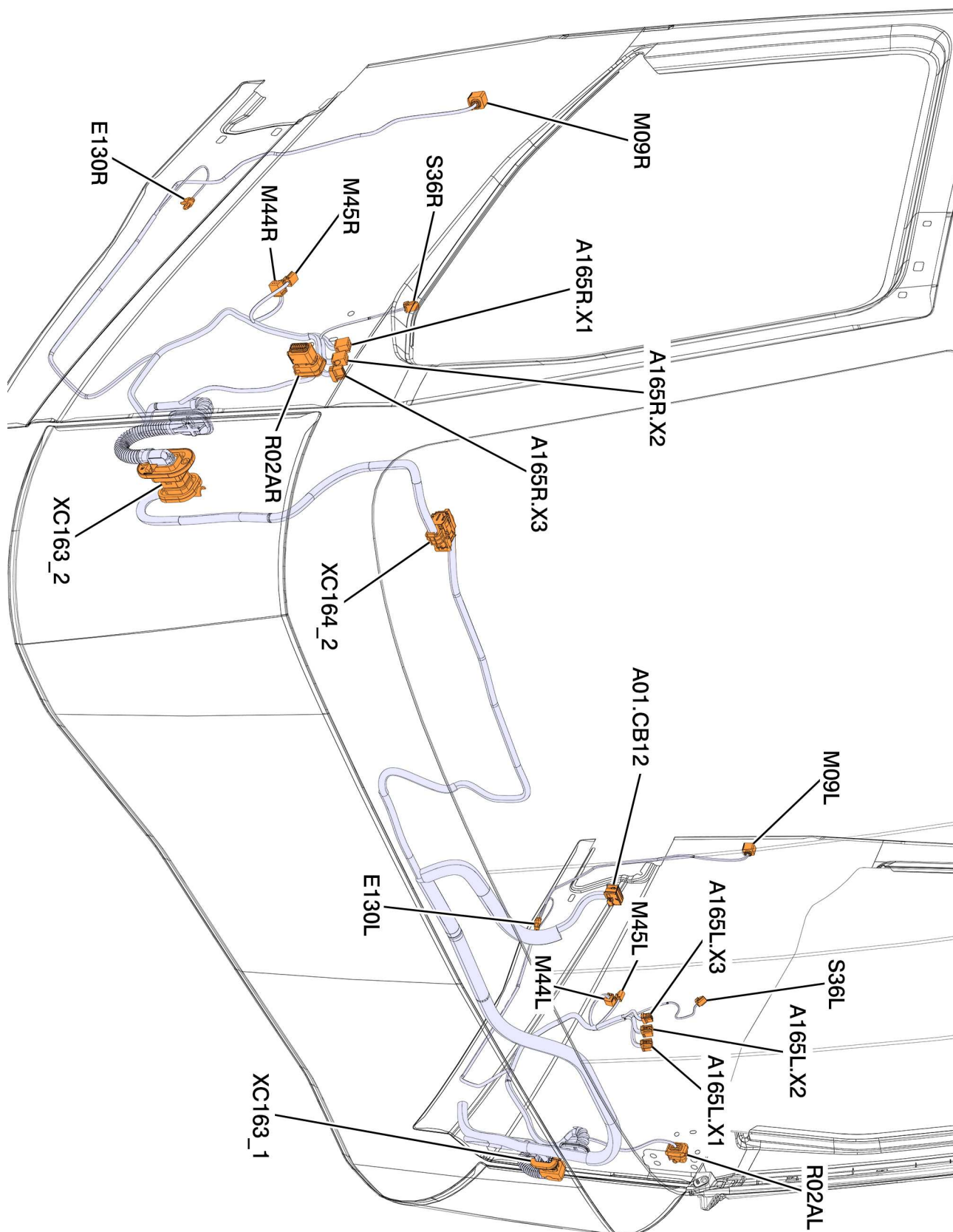


T3099262

Door harness routing (For vehicles manufactured before 2017/06/05)

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_p 1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p 2	BK	18
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X1	GN	12
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X2	GY	12
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X3	GY	6
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X1	GN	12
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X2	GY	12
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X3	GY	6
E130L	Left-hand door edge illumination light	E130L	BK	2
E130R	Right-hand door edge illumination light	E130R	BK	2
M09L	Left-hand front door locking system assembly	M09L	BK	6
M09R	Right-hand front door locking system assembly	M09R	BK	6
M44L	Left-hand front door window lift motor with anti-pinch system	M44L	GY	6
M44R	Right-hand front door window lift motor with anti-pinch system	M44R	GY	6
M45L	Left-hand front door window lift motor	M45L	GY	2
M45R	Right-hand front door window lift motor	M45R	GY	2
R02AL	Electric rear-view mirror, left-hand side	R02AL	BK	12
R02A-R	Electric rear-view mirror, right-hand side	R02AR	BK	12
S36L	Control for left-hand front window lift motor	S36L	GY	3
S36R	Control for right-hand front window lift motor	S36R	GY	3
X-C163_1	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_1	BK	18
X-C163_2	Plug-in connector between the right-hand door harness extension and the right-hand door harness	XC163_2	BK	18
X-C164_1	Plug-in connector between the dashboard harnesses and the left-hand door extension harness	XC164_1	BK	25
X-C164_2	Plug-in connector between the dashboard harnesses and the right-hand door extension harness	XC164_2	BK	25

Door harness routing (For vehicles manufactured after 2017/06/04)

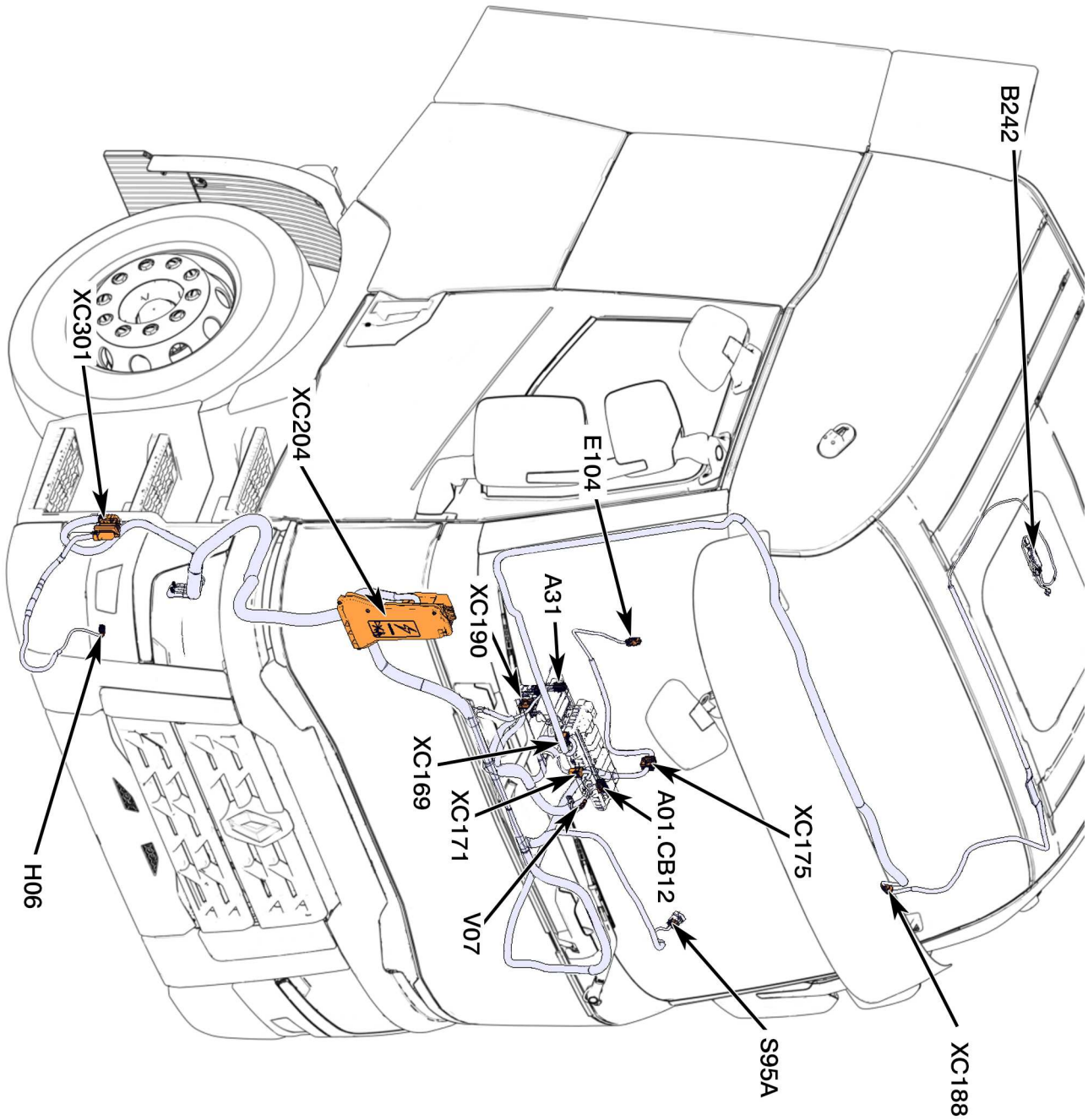


T3123328

Door harness routing (For vehicles manufactured after 2017/06/04)

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_p 1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p 2	BK	18
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X1	GN	12
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X2	GY	12
A165L	Left-hand door information management control unit (DDM/PDM)	A165L.X3	GY	6
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X1	GN	12
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X2	GY	12
A165R	Right-hand door information management control unit (DDM/PDM)	A165R.X3	GY	6
E130L	Left-hand door edge illumination light	E130L	BK	2
E130R	Right-hand door edge illumination light	E130R	BK	2
M09L	Left-hand front door locking system assembly	M09L	BK	6
M09R	Right-hand front door locking system assembly	M09R	BK	6
M44L	Left-hand front door window lift motor with anti-pinch system	M44L	GY	6
M44R	Right-hand front door window lift motor with anti-pinch system	M44R	GY	6
M45L	Left-hand front door window lift motor	M45L	GY	2
M45R	Right-hand front door window lift motor	M45R	GY	2
R02AL	Electric rear-view mirror, left-hand side	R02AL	BK	12
R02A-R	Electric rear-view mirror, right-hand side	R02AR	BK	12
S36L	Control for left-hand front window lift motor	S36L	GY	3
S36R	Control for right-hand front window lift motor	S36R	GY	3
X-C163_1	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_1	BK	18
X-C163_2	Plug-in connector between the right-hand door harness extension and the right-hand door harness	XC163_2	BK	18
X-C164_2	Plug-in connector between the dashboard harnesses and the right-hand door extension harness	XC164_2	BK	25

Alarm wiring harness routing

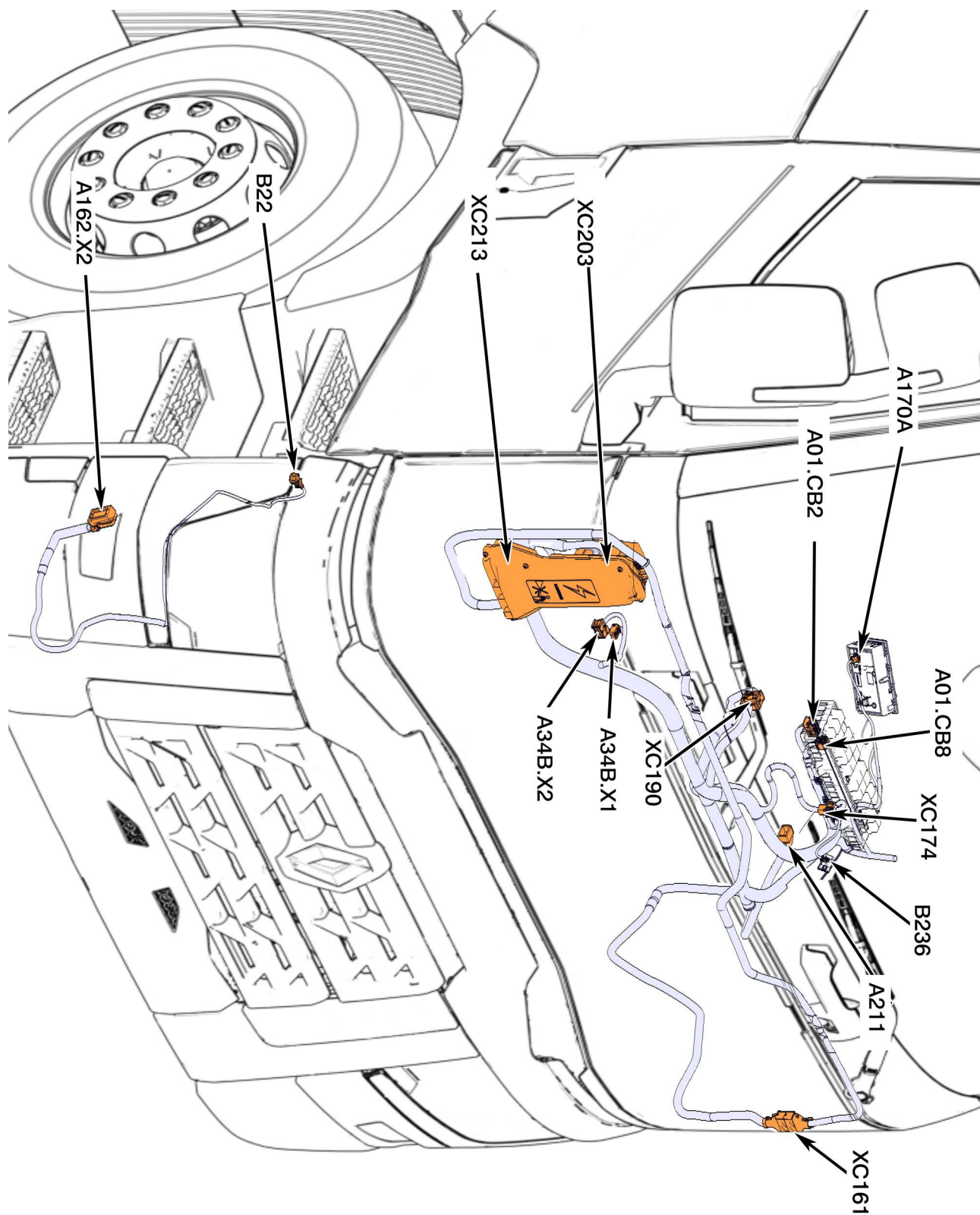


T3099330

Alarm wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_p1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p2	BK	18
A31	Vehicle anti-theft system ECU (AECU)	A31	BN	21
B242	Ultrasound decoder for anti-intrusion protection (UIP)	B242	BK	4
E104	Light for storage compartment under bunk no. 1	E104	GY	4
H06	Horn - alarm siren	H06	BK	3
S95A	Alarm panic button control	S95A	BK	10
V07	Vehicle alarm signalling diode	V07	BK	3
XC169	Plug-in connector between dashboard harness and console harness	XC169	BK	25
XC171	Plug-in connector between dashboard harness and console harness	XC171	YE	9
XC175	Plug-in connector between the dashboard harness and the floor harness	XC175_p1	NL	7
XC175	Plug-in connector between the dashboard harness and the floor harness	XC175_p2	BK	18
XC188	Plug-in connector between the console harness and the harness under the roof	XC188	GY	12
XC190	Plug-in connector between two dashboard harnesses	XC190_p1	BK	18
XC190	Plug-in connector between two dashboard harnesses	XC190_p2	BK	9
XC190	Plug-in connector between two dashboard harnesses	XC190_p3	NL	9
XC204	Plug-in connector between dashboard harness and chassis front harness	XC204	VT	36
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26

Air conditioning wiring harness routing

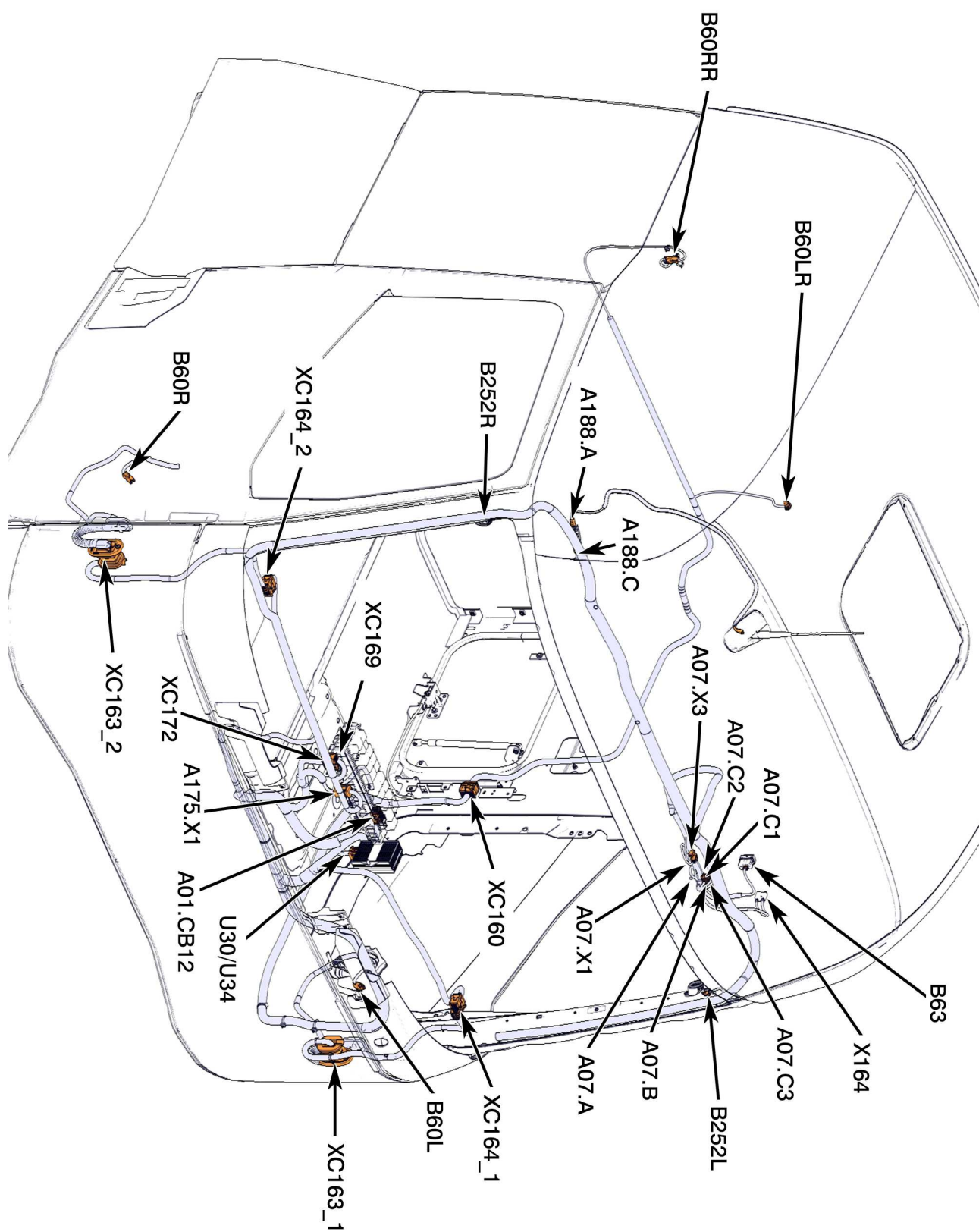


T3099333

Air conditioning wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB2_p1	NL	7
A01	Electrical distribution box in cab	A01.CB2_p2	BK	18
A01	Electrical distribution box in cab	A01.CB8	GY	8
A34B	Air conditioning management control unit	A34B.X1	GY	2
A34B	Air conditioning management control unit	A34B.X2	BK	18
A162	Front chassis area information management control unit (FCIOM)	A162.X2	GY	29
A170A	Cab air conditioning control panel	A170A	YE	3
A211	Air/air independent heater	A211	BK	10
B22	External temperature sensor	B22	BK	2
B236	Mist on windscreen sensor	B236	BK	3
XC161	Plug-in connector between the front end harness and the under-floor harness on the left-hand side	XC161	BK	16
XC174	Plug-in connector between dashboard harness and console harness	XC174	BU	9
XC190	Plug-in connector between two dashboard harnesses	XC190_p1	BK	18
XC190	Plug-in connector between two dashboard harnesses	XC190_p2	BK	9
XC190	Plug-in connector between two dashboard harnesses	XC190_p3	NL	9
XC203	Plug-in connector between dashboard harness and chassis front harness	XC203	BN	36
XC213	Plug-in connector between dashboard harness and front end harness	XC213	BK	25

Audio system harness routing (For vehicles manufactured before 2017/06/05)

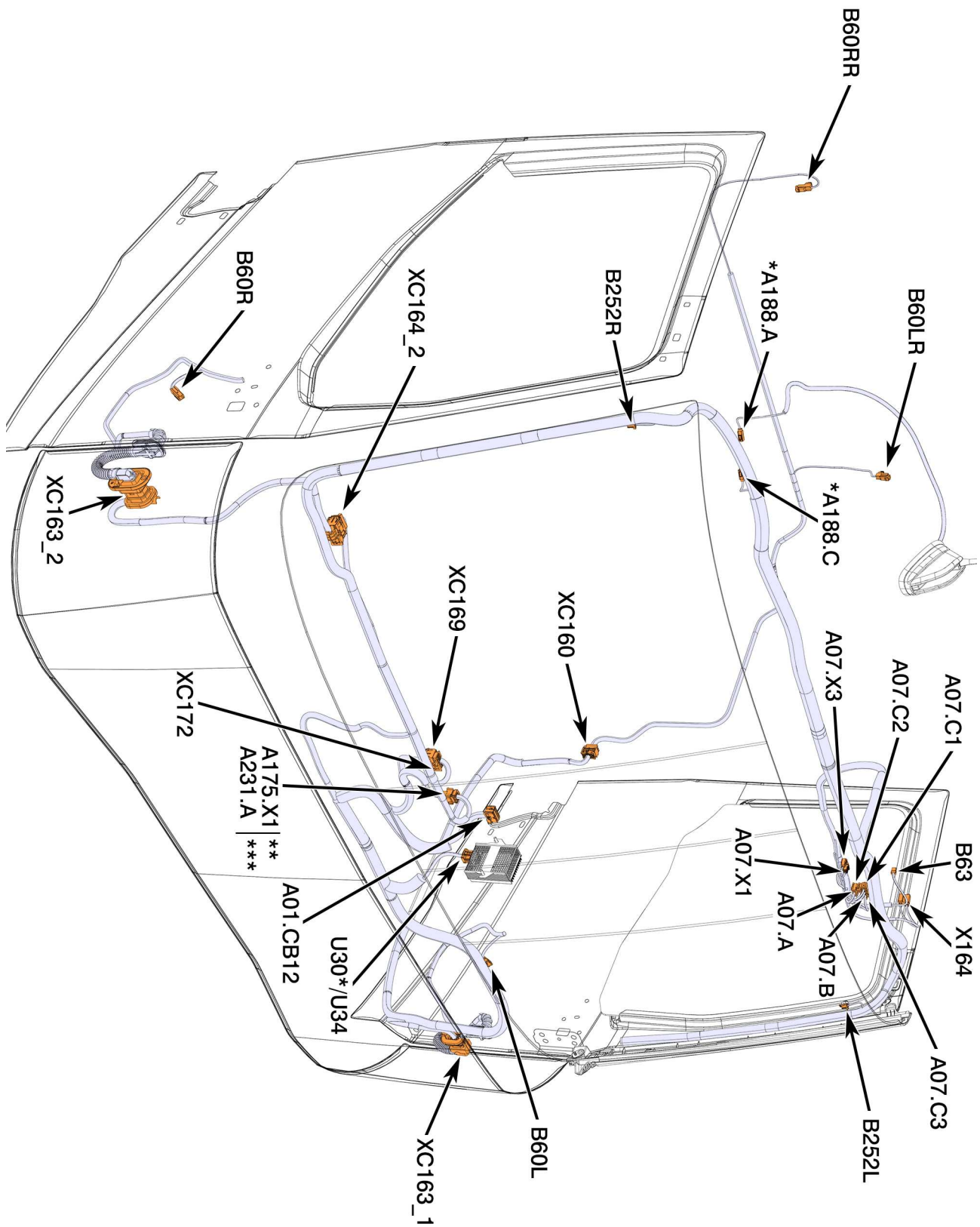


T3120907

Audio system harness routing (For vehicles manufactured before 2017/06/05)

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.C B12_P1	NL	7
A01	Electrical distribution box in cab	A01.C B12_P2	BK	18
A07	Electrical distribution box in cab	A07.A	GY	8
A07	Radio set	A07.B	BN	8
A07	Radio set	A07.C1	YE	6
A07	Radio set	A07.C2	GN	6
A07	Radio set	A07.C3	BU	8
A07	Radio set	A07.X1	-	10
A07	Radio set	A07.X3	-	2
A175	Additional telematics management control unit (TESP)	A175.X1	BK	18
A188	FM signal distributor	A188.A	NA	2
A188	FM signal distributor	A188.C	NA	2
B60L	LH front loudspeaker	B60L	GY	2
B60LR	Rear left-hand speaker	B60LR	GY	2
B60R	RH front loudspeaker	B60R	GY	2
B60RR	Rear right-hand speaker	B60RR	GY	2
B63	Microphone	B63	BK	4
B252L	Tweeter speaker, left-hand side	B252L	BK	3
B252R	Tweeter speaker, right-hand side	B252 R	BK	3
U30	24/12 V - 20 A voltage converter	U30	GN	12
U34	24/12 V - 25 A voltage converter	U34	VT	15
XC160	Plug-in connector between the dashboard harness and the rear panel harness	X160	GU	25
XC163	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_1	BK	18
XC163	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_2	BK	18
X164	USB and auxiliary audio connector	X164	-	-
XC164_1	Plug-in connector between the dashboard harnesses and the left-hand door extension harness	XC164_1	BK	25
XC164_2	Plug-in connector between the dashboard harnesses and the right-hand door extension harness	XC164_2	BK	25
XC169	Plug-in connector between dashboard harness and console harness	XC169_p1	NL	7
XC169	Plug-in connector between dashboard harness and console harness	XC169_p2	BK	18
XC172	Plug-in connector between dashboard harness and console harness	XC172	GN	12

Audio system harness routing (For vehicles manufactured after 2017/06/04)



T3130646

Audio system harness routing (For vehicles manufactured after 2017/06/04)

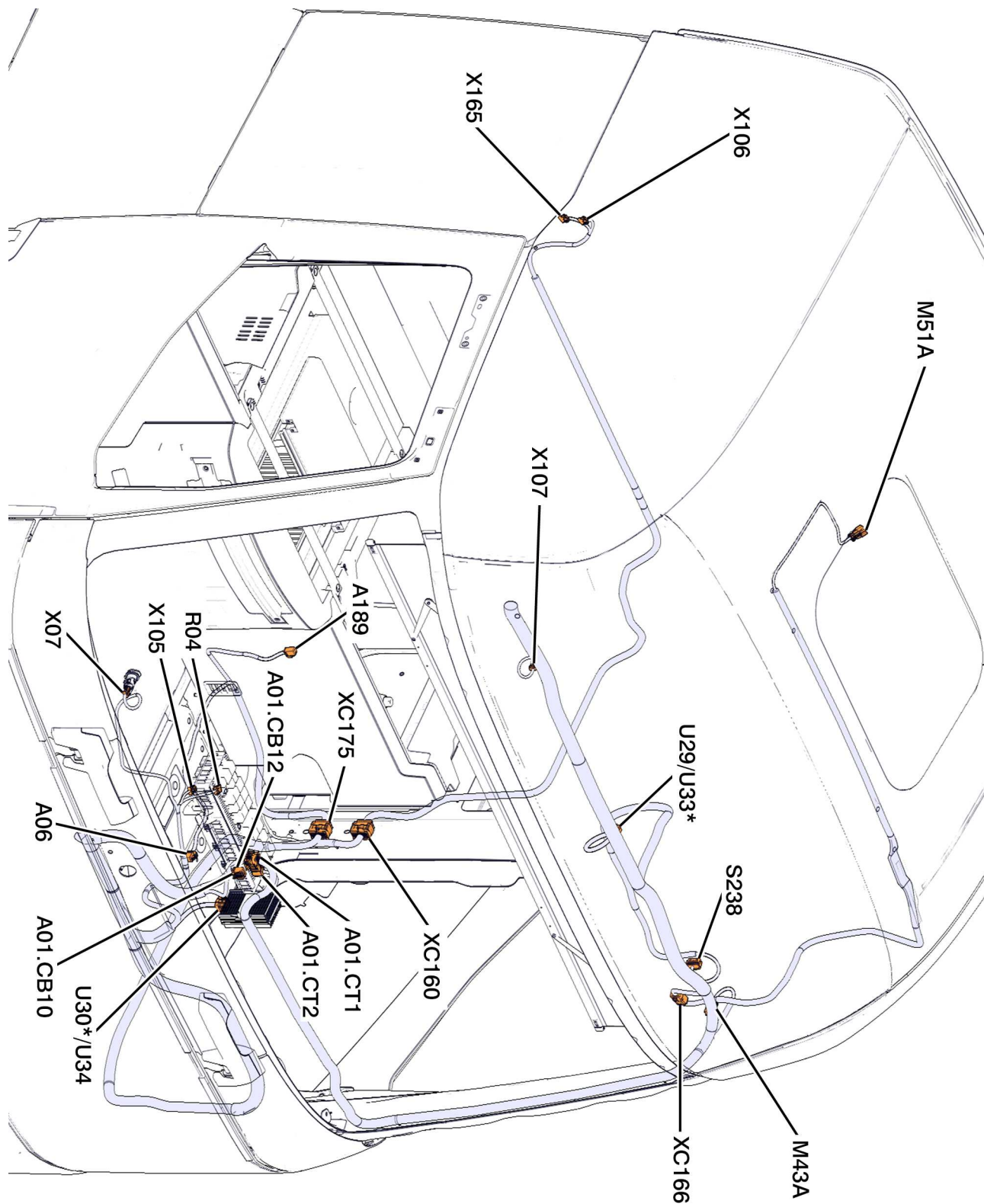
Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.C B12_P1	NL	7
A01	Electrical distribution box in cab	A01.C B12_P2	BK	18
A07	Electrical distribution box in cab	A07.A	GY	8
A07	Radio set	A07.B	BN	8
A07	Radio set	A07.C1	YE	6
A07	Radio set	A07.C2	GN	6
A07	Radio set	A07.C3	BU	8
A07	Radio set	A07.X1	-	10
A07	Radio set	A07.X3	-	2
A175	Additional telematics management control unit (TESP)	A175.X1	BK	18
A188	FM signal distributor	A188.A	NA	2
A188	FM signal distributor	A188.C	NA	2
A231	Service and entertainment module (SEM)	A231.A	BK	16
B60L	LH front loudspeaker	B60L	GY	2
B60LR	Rear left-hand speaker	B60LR	GY	2
B60R	RH front loudspeaker	B60R	GY	2
B60RR	Rear right-hand speaker	B60RR	GY	2
B63	Microphone	B63	BK	4
B252L	Tweeter speaker, left-hand side	B252L	BK	3
B252R	Tweeter speaker, right-hand side	B252 R	BK	3
U30	24/12 V - 20 A voltage converter	U30	GN	12
U34	24/12 V - 25 A voltage converter	U34	VT	15
XC160	Plug-in connector between the dashboard harness and the rear panel harness	X160	GU	25
XC163	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_1	BK	18
XC163	Plug-in connector between the left-hand door harness extension and the left-hand door harness	XC163_2	BK	18
X164	USB and auxiliary audio connector	X164	-	-
XC164_2	Plug-in connector between the dashboard harnesses and the right-hand door extension harness	XC164_2	BK	25
XC169	Plug-in connector between dashboard harness and console harness	XC169_p1	NL	7
XC169	Plug-in connector between dashboard harness and console harness	XC169_p2	BK	18
XC172	Plug-in connector between dashboard harness and console harness	XC172	GN	12

* : for vehicles manufactured before **2017/03/12**

** : for vehicles manufactured before **2018/09/10**

*** : for vehicles manufactured after **2018/09/09**

Accessories wiring harness routing



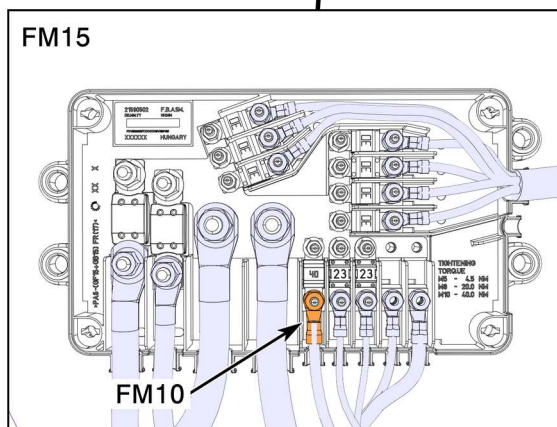
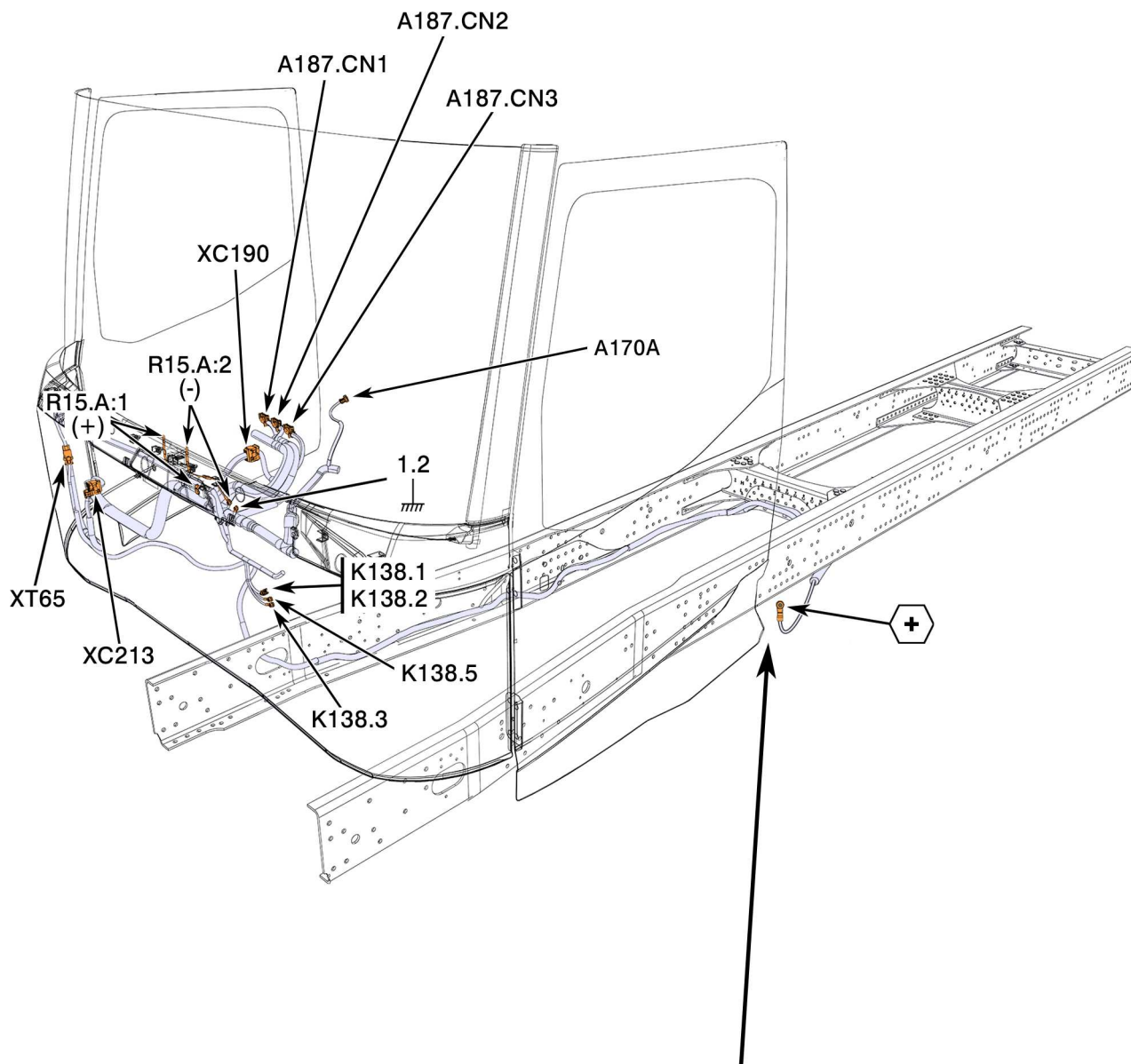
T3120916

Accessories wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB10	GY	8
A01	Electrical distribution box in cab	A01.CB12_p1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p2	BK	18
A01	Electrical distribution box in cab	A01.CT1_p1	BK	18
A01	Electrical distribution box in cab	A01.CT1_p2	BK	9
A01	Electrical distribution box in cab	A01.CT1_p3	NL	9
A01	Electrical distribution box in cab	A01.CT2	GY	4
A06	Driver's heated seat unit	A06	BK	4
A189	Refrigerator	A189	GY	4
M43A	Front panel motor	M43A	GY	2
M51A	Sunroof electric motor	M51A	GY	2
R04	Cigar lighter	R04	WH	3
S238	Passenger side front curtain control	S238	BK	10
U29	24/12 V - 11 A voltage converter	U29	BK	8
U30	24/12 V - 20 A voltage converter	U30	GN	12
U33	24/12 V - 20 A voltage converter	U33	GN	12
U34	24/12 V - 25 A voltage converter	U34	VT	15
X07	12 volt power supply socket	X07	BN	3
X105	24 volt power supply socket	X105	GN	3
X106	24 volt power supply socket	X106	GN	3
X107	24 volt power supply socket	X107	GN	3
X165	12 Volts power supply socket on bunk	X165	YE	3
XC160	Plug-in connector between the dashboard harness and the rear panel harness	XC160	GY	25
XC166	Plug-in connector between the console harness and the harness under the roof	XC166	GY	12
XC175	Plug-in connector between the dashboard harness and the floor harness	XC175	BK	25

* : for vehicles manufactured before **2017/03/12**

Windscreen de-icing harness routing

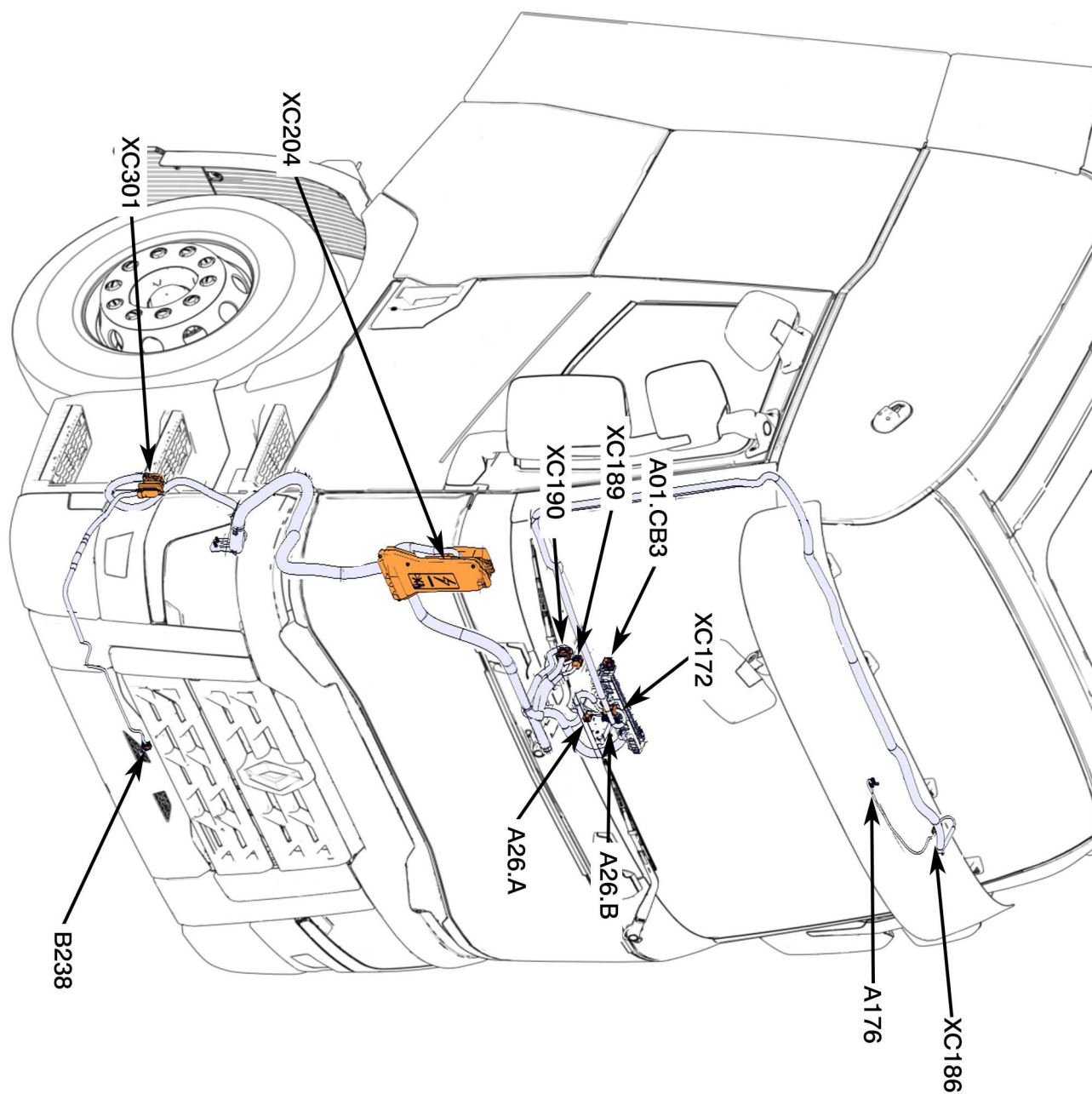


T3119318

Windscreen de-icing harness routing

Code	Function description	Connector	Colour	No. of pins
A170A	Cab air conditioning control panel	A170A	YE	3
A187	Main vehicle management control unit (VMCU)	A187.CN1	BK	26
A187	Main vehicle management control unit (VMCU)	A187.CN2	BK	26
A187	Main vehicle management control unit (VMCU)	A187.CN3	BK	26
FM15	Power fuse box	-	-	-
K138	Windscreen de-icing resistors power supply relay	K138.1	-	1
K138	Windscreen de-icing resistors power supply relay	K138.2	-	1
K138	Windscreen de-icing resistors power supply relay	K138.3	-	1
K138	Windscreen de-icing resistors power supply relay	K138.5	-	1
R15	Windscreen de-icing resistor	R15.A:1	BK	1
R15	Windscreen de-icing resistor	R15.A:2	-	1
XC190	Plug-in connector between two dashboard harnesses	XC190_p1	BK	18
XC190	Plug-in connector between two dashboard harnesses	XC190_p2	BK	9
XC190	Plug-in connector between two dashboard harnesses	XC190_p3	NL	9
XC213	Plug-in connector between dashboard harness and front end harness	XC213	BK	25
XT65	Plug-in connector between battery box connection harness to cab and windscreen de-icing resistors power supply relay	XT65	BK	2

Routing of driving assist harness (before 04/06/2018)

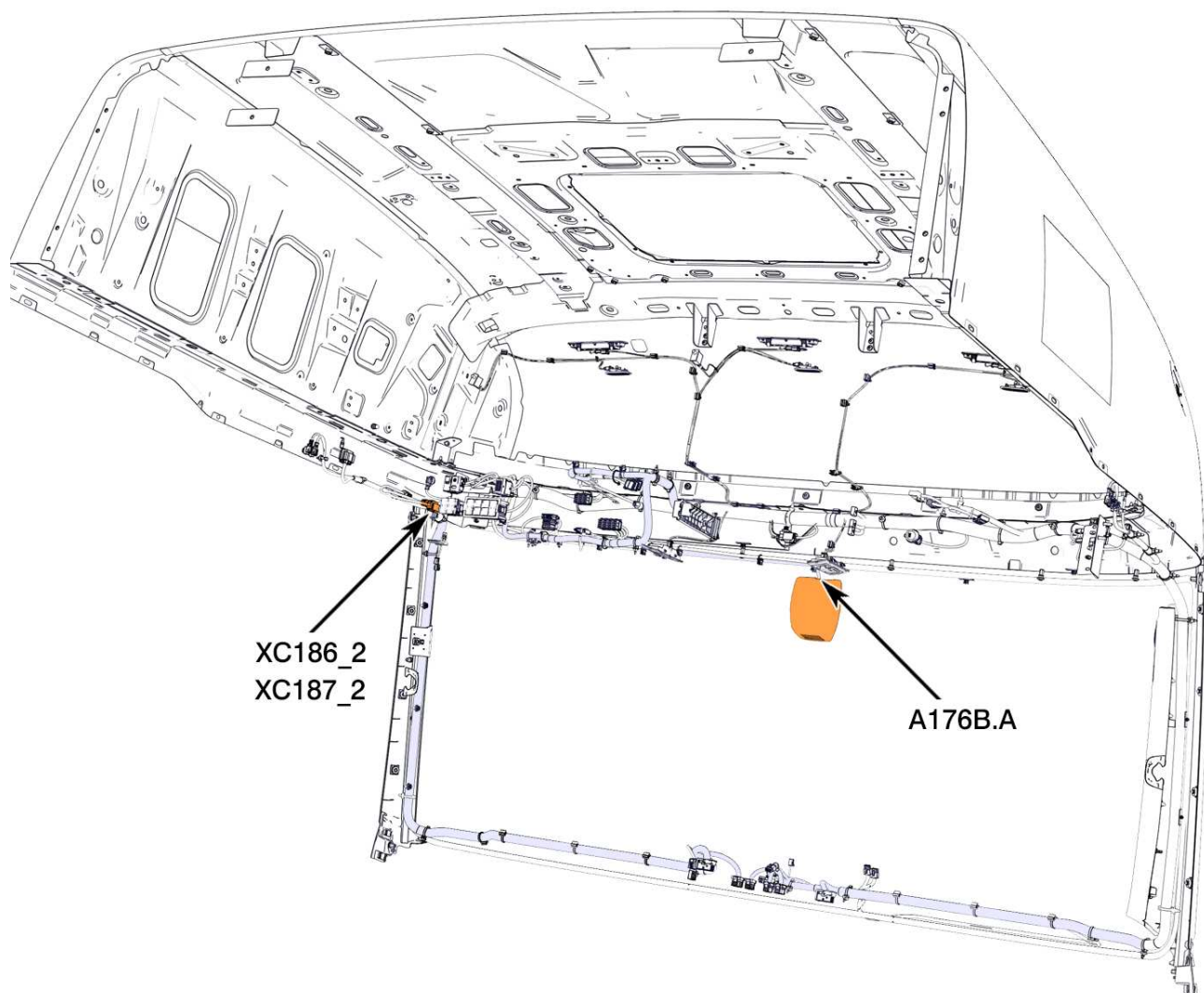


T3102193

Routing of driving assist harness (before 04/06/2018)

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB3_p1	NL	7
A01	Electrical distribution box in cab	A01.CB3_p2	BK	18
A26	Driving assist management control unit (DACU)	A26.A	GY	12
A26	Driving assist management control unit (DACU)	A26.B	BK	18
A176	Camera unit plus lane position change and object detection sensors (LPOS)	A176	BK	12
B238	Object detection and distance radar sensor (FLS)	B238	BK	8
XC172	Plug-in connector between dashboard harness and console harness	XC172	GN	12
XC186	Plug-in connector between the console harness and the lane change and object detection camera harness	XC186	GY	4
XC189	Plug-in connector between the dashboard harness and the driving assist management control unit harness	XC189	BU	12
XC190	Plug-in connector between two dashboard harnesses	XC190_p1	BK	18
XC190	Plug-in connector between two dashboard harnesses	XC190_p2	BK	9
XC190	Plug-in connector between two dashboard harnesses	XC190_p3	NL	9
XC204	Plug-in connector between dashboard harness and chassis front harness	XC204	VY	36
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26

Routing of driving assist harness (after 03/06/2018) (1/2)

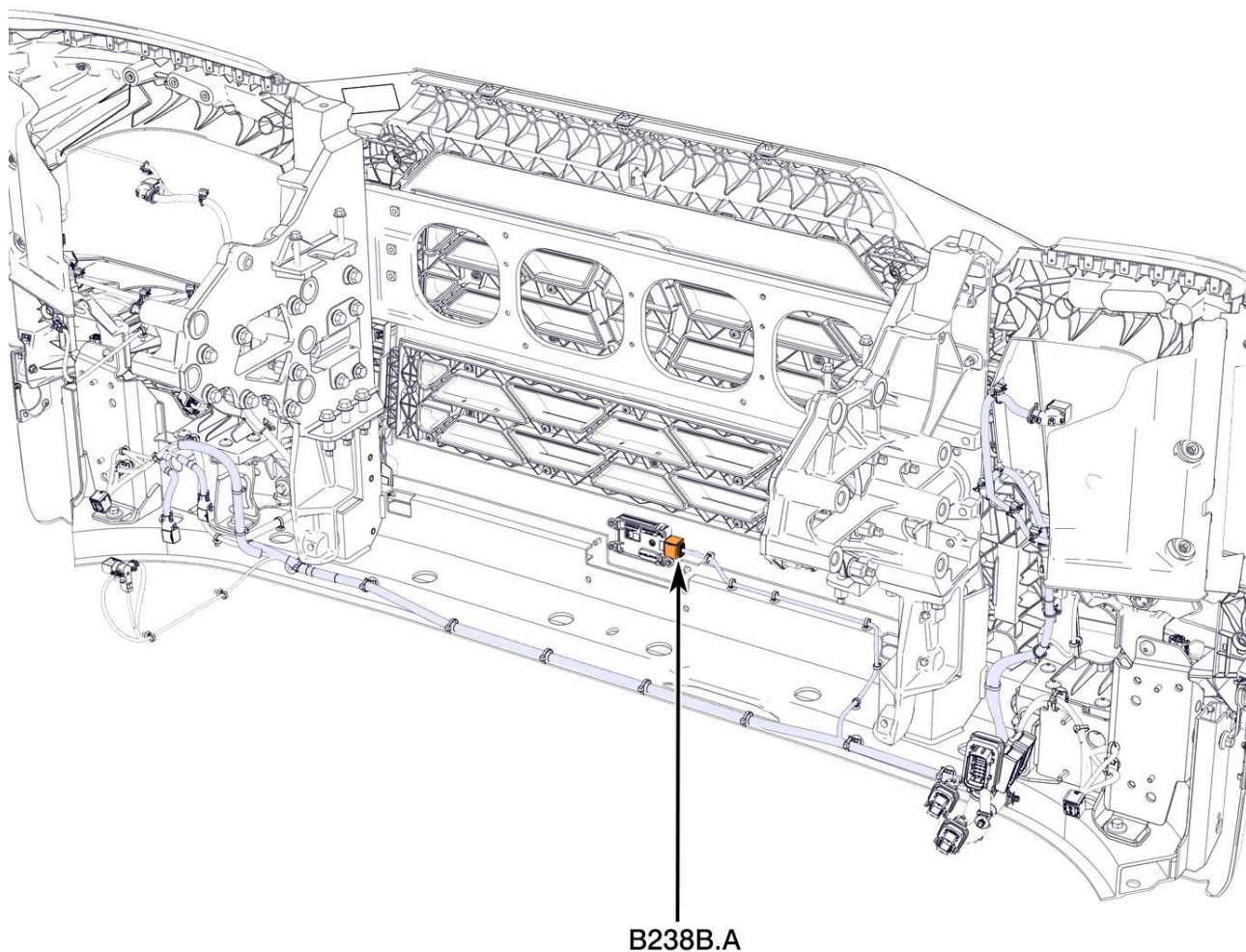


T3131186

Routing of driving assist harness (after 03/06/2018) (1/2)

Code	Function description	Connector	Colour	No. of pins
A176B	Camera unit plus lane position change and object detection sensors (LPOS)	A176B.A	BK	12
XC186_2	Plug-in connector between the console harness and the lane change and object detection camera harness	XC186_2	GY	6
XC187_2	Plug-in connector between the console harness and the lane change and object detection camera harness	XC187_2	GY	6

Routing of driving assist wiring harness (after 03/06/2018) (2/2)

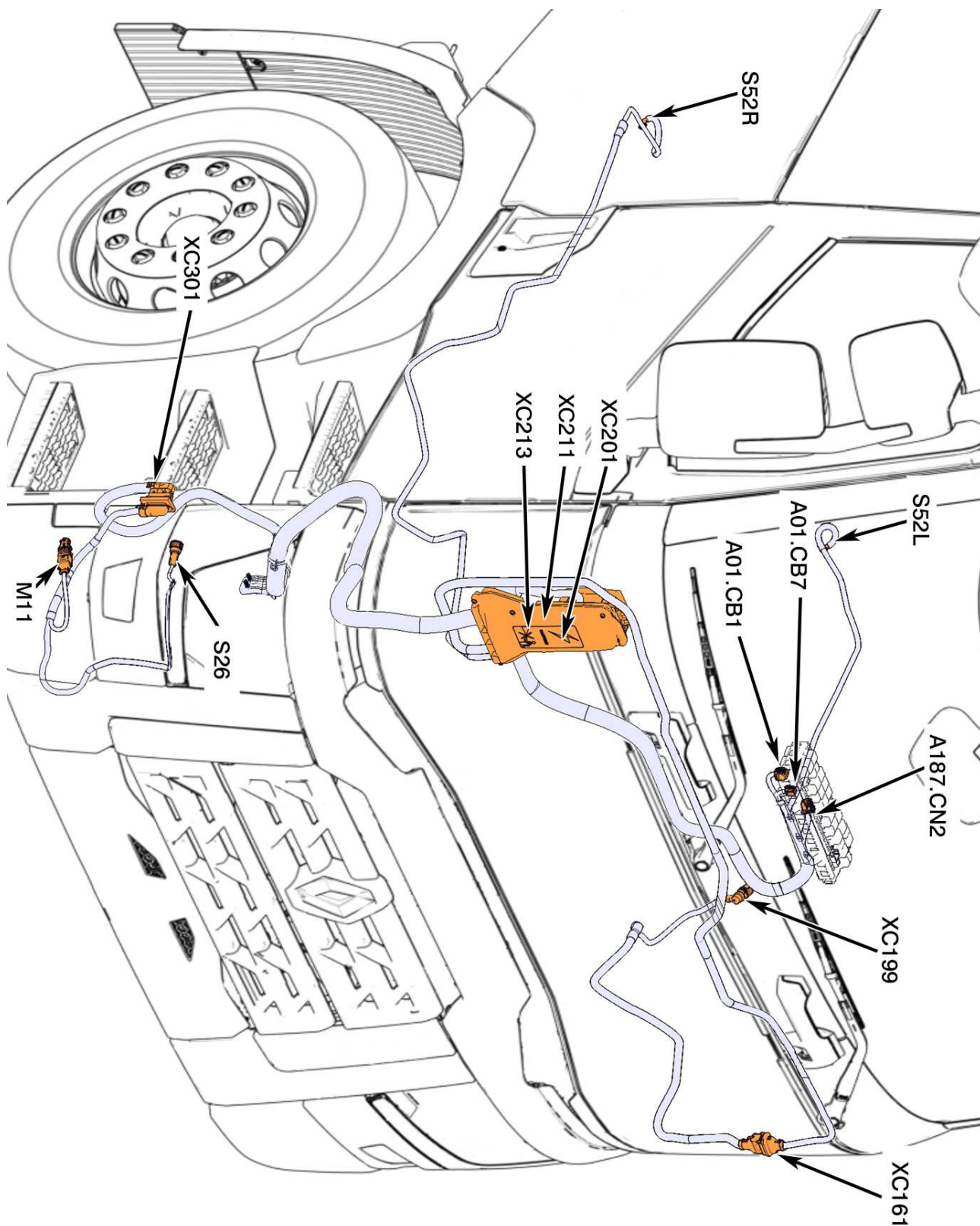


T3129572

Routing of driving assist wiring harness (after 03/06/2018) (2/2)

Code	Function description	Connector	Colour	No. of pins
B238B	Object detection and distance radar sensor (FLS)	B238B.A	BK	8

Cab tilt wiring harness routing

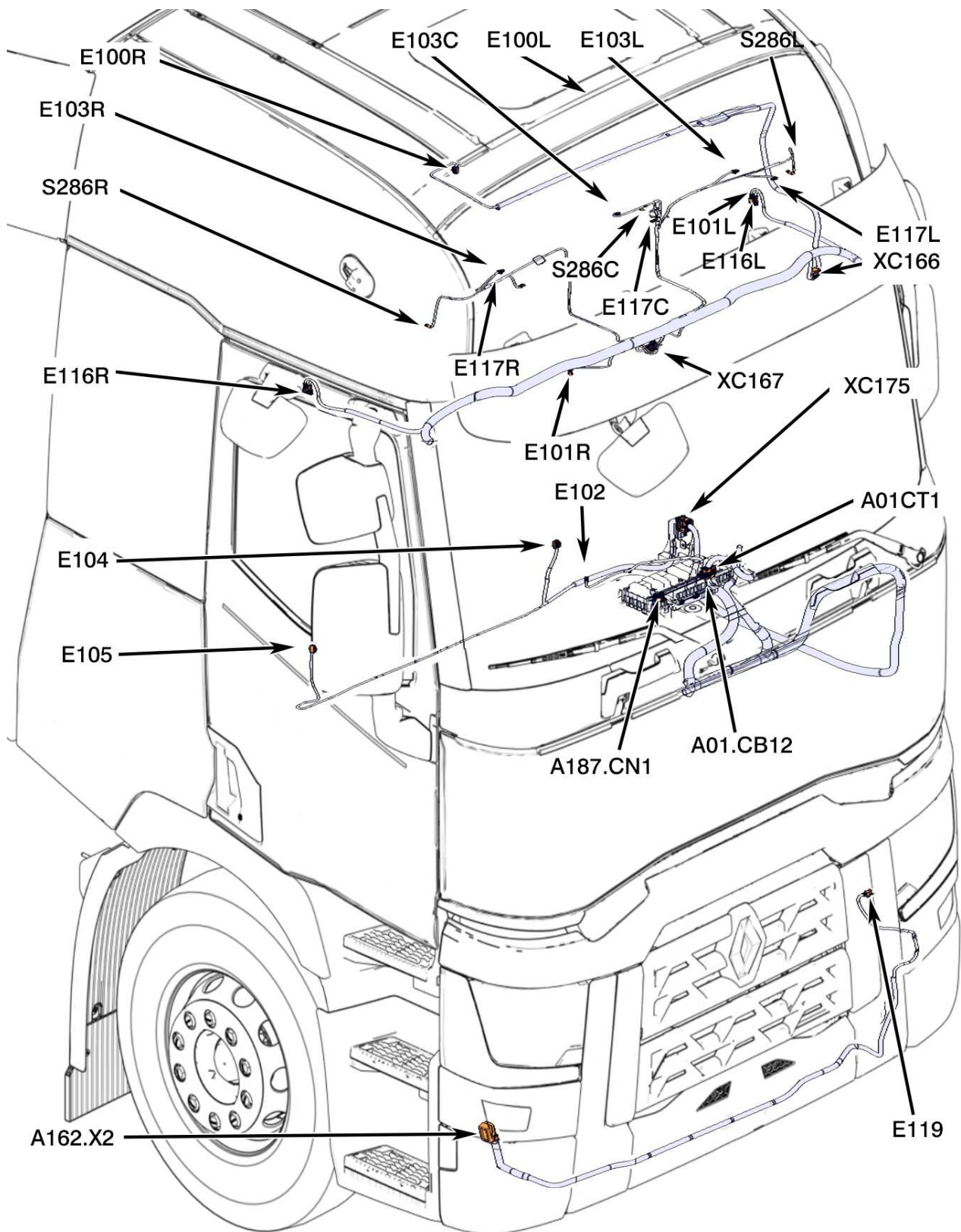


T3099336

Cab tilt wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB1	GY	4
A01	Electrical distribution box in cab	A01.CB7	BK	8
A187	Main vehicle management control unit (VMCU)	A187.CN2	BK	26
M11	Cab tilt motor	M11	BK	2
S26	Cab tilt control	S26	BK	2
S52L	Left-hand position sensor - cab tilt safety feature	S52L	BK	2
S52R	Right-hand position sensor - cab tilt safety feature	S52R	BK	2
XC161	Plug-in connector between the front end harness and the under-floor harness on the left-hand side	XC161	BK	16
XC199	Plug-in connector between two under-floor harnesses on the right-hand side	XC199	BK	3
XC201	Plug-in connector between dashboard harness and chassis front harness	XC201	GY	4
XC211	Plug-in connector between the dashboard harness and the under-floor harness on the right-hand side	XC211	NL	9
XC213	Plug-in connector between dashboard harness and front end harness	XC213	BK	25
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26

Cab interior lighting wiring harness routing

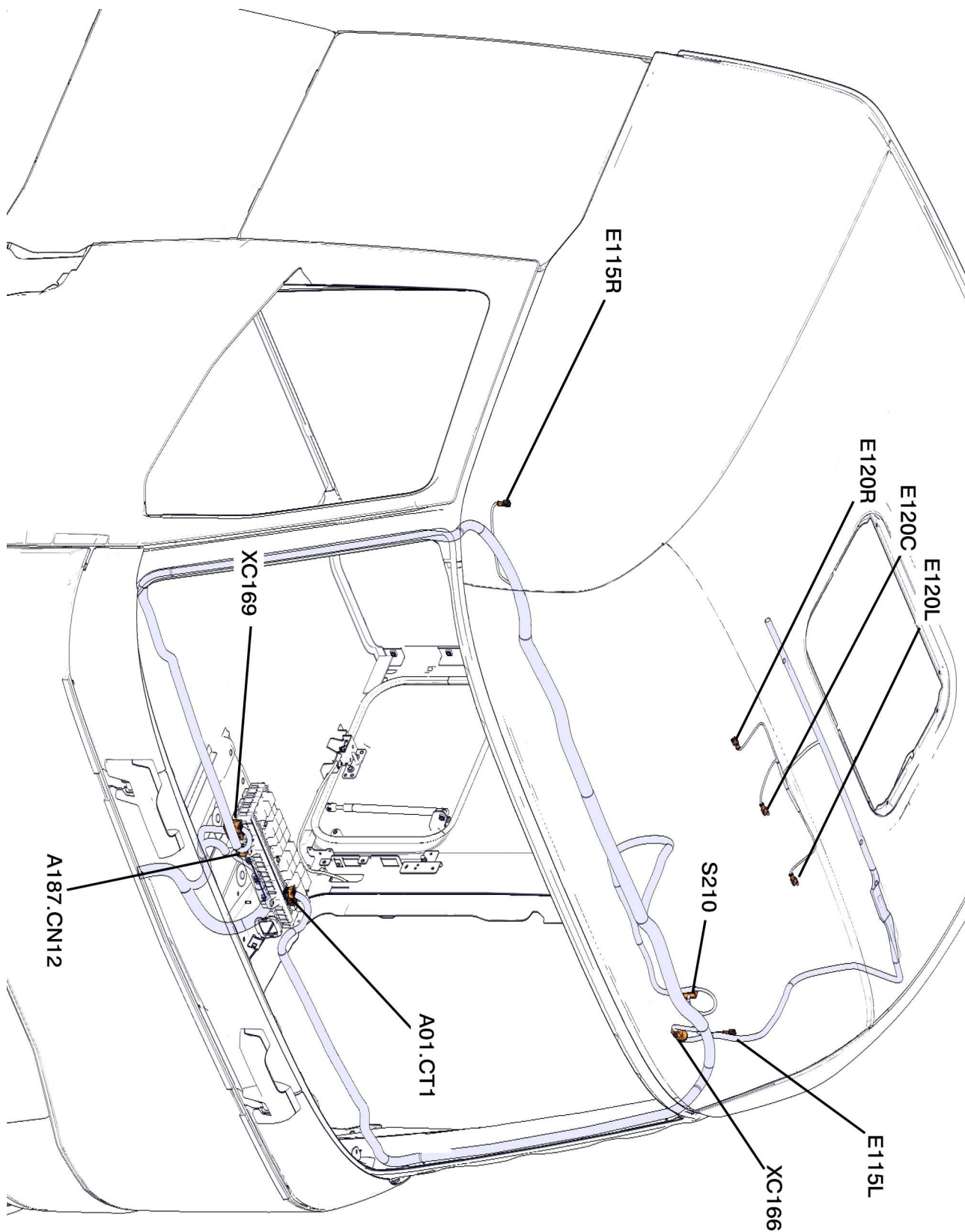


T3102191

Cab interior lighting wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_p1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p2	BK	18
A01	Electrical distribution box in cab	A01.CT1_p1	BK	18
A01	Electrical distribution box in cab	A01.CT1_p2	BK	9
A01	Electrical distribution box in cab	A01.CT1_p3	NL	9
A162	Front chassis area information management control unit (FCIOM)	A162.X2	GY	29
A187	Main vehicle management control unit (VMCU)	A187.CN1	BK	26
E100L	Lighting unit, left-hand cabin light (environment)	E100L	GY	2
E100R	Lighting unit, right-hand cabin light (environment)	E100R	GY	2
E101L	Reading light, left-hand side	E101L	-	-
E101R	Reading light, right-hand side	E101R		
E102	Instrument panel lighting (ambiance)	E102	BK	3
E103C	Centre console light (ambiance)	E103C	-	-
E103L	Left-hand console light (ambiance)	E103L	-	-
E103R	Right-hand console light (ambiance)	E103R	-	-
E104	Light for storage compartment under bunk no. 1	E104	GY	4
E105	Light for storage compartment under bunk no. 2	E105	GY	2
E116L	Directional reading light, left-hand side	E116L	BK	3
E116R	Directional reading light, right-hand side	E116R	BK	3
E117C	Light for storage compartment in centre console	E117C	-	-
E117L	Light for storage compartment in left-hand console	E117L	-	-
E117R	Light for storage compartment in right-hand console	E117R	-	-
E119	Driver's side stepwell lighting lamp	E119	-	-
S286C	Centre console lighting contact	S286C	-	-
S286L	Left-hand console lighting contact	S286L	-	-
S286R	Right-hand console lighting contact	S286R	-	-
XC166	Plug-in connector between the console harness and the harness under the roof	XC166	GY	12
XC167	Plug-in connector between the console harness and the cab interior lamps harness	XC167	GY	4
XC175	Plug-in connector between the dashboard harness and the floor harness	XC175_p1	NL	7
XC175	Plug-in connector between the dashboard harness and the floor harness	XC175_p2	BK	18

Cab external lighting wiring harness routing

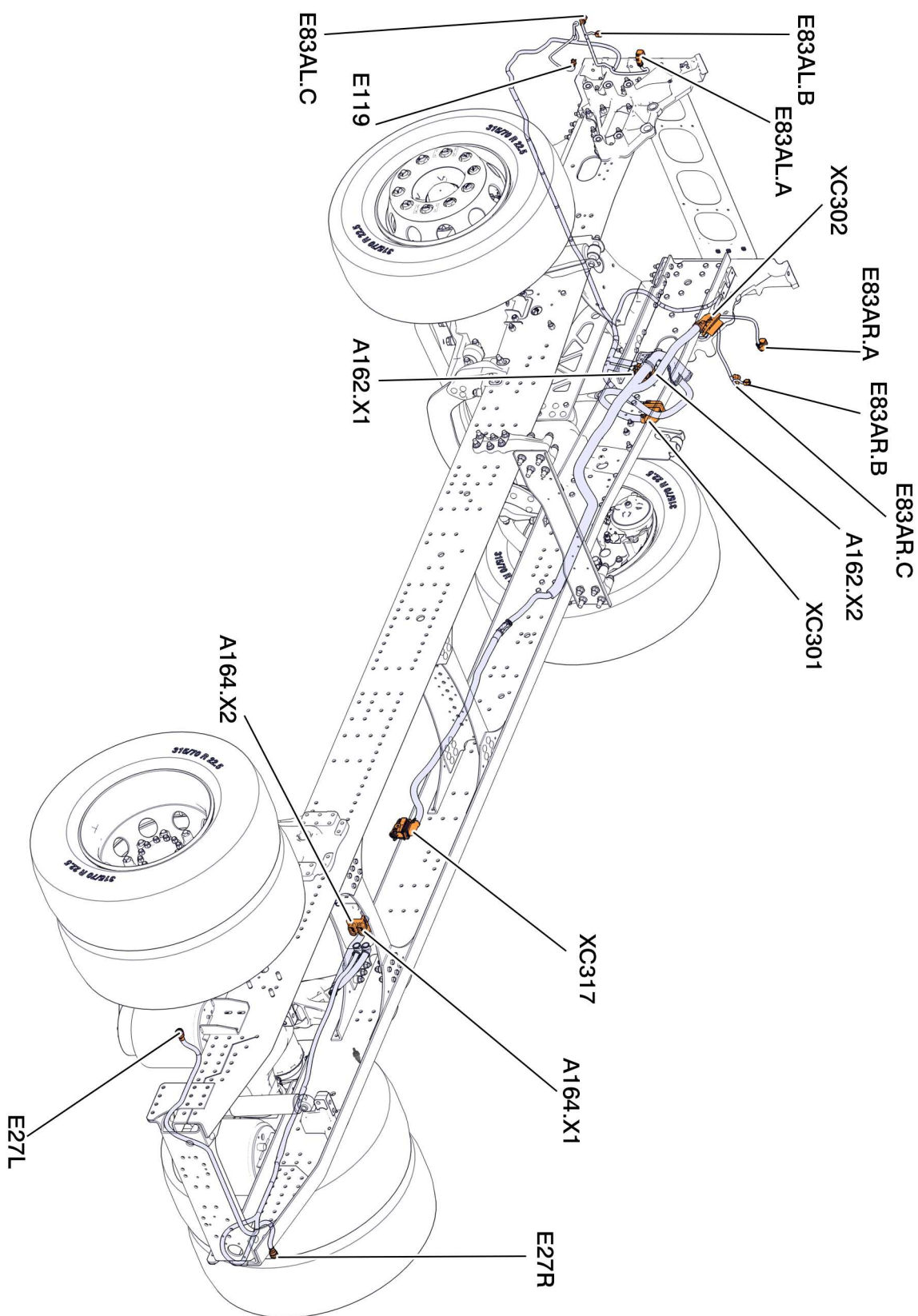


T3099273

Cab external lighting wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CT1_p1	BK	18
A01	Electrical distribution box in cab	A01.CT1_p2	BK	9
A01	Electrical distribution box in cab	A01.CT1_p3	NL	9
A187	Main vehicle management control unit (VMCU)	A187. CN12	GY	8
E115L	Left-hand marker light	E115L	BK	3
E115R	Right-hand marker light	E115R	BK	3
E120C	Central identification light on the roof	E120C	BK	3
E120L	Left-hand identification light on the roof	E120L	BK	3
E120R	Right-hand identification light on the roof	E120R	BK	3
S210	Identification lights on roof control	S210	BK	10
XC166	Plug-in connector between the console harness and the harness under the roof	XC166	GY	12
XC169	Plug-in connector between dashboard harness and console harness	XC169	NL/BK	25

Routing of the exterior lighting wiring harness on the chassis - With main beam headlights

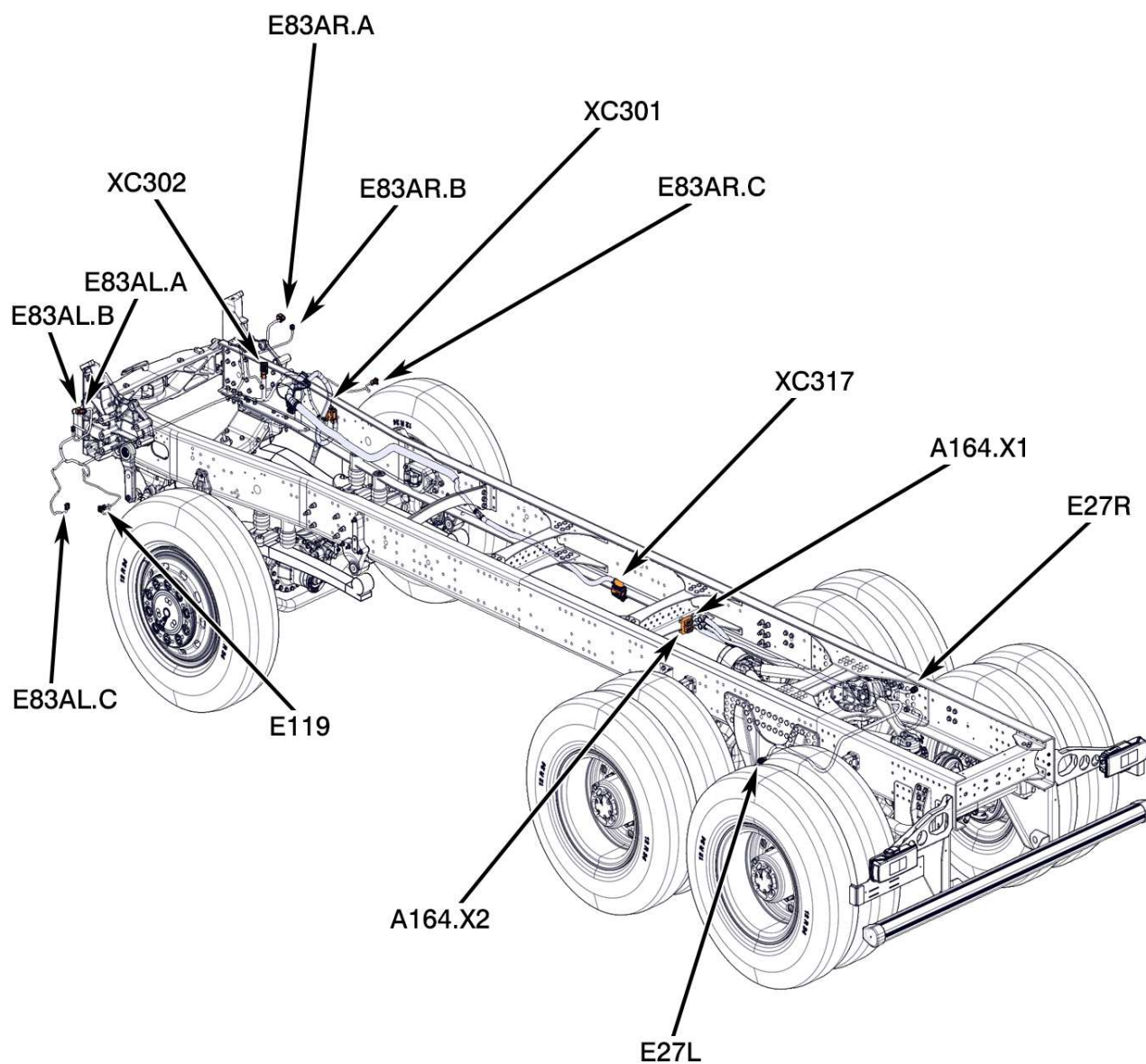


T3099274

Routing of the exterior lighting wiring harness on the chassis - With main beam headlights

Code	Function description	Connector	Colour	No. of pins
A162	Front chassis area information management control unit (FCIOM)	A162.X1	BK	29
A162	Front chassis area information management control unit (FCIOM)	A162.X2	GY	29
A164	Rear chassis area information management control unit (RCIOM)	A164.X1	BK	2
A164	Rear chassis area information management control unit (RCIOM)	A164.X2	GY	29
E27L	Left-hand tail lights unit	E27L	BK	7
E27R	Right-hand tail lights unit	E27R	BK	7
E83AL	LH light unit	E83AL.A	BK	8
E83AL	LH light unit	E83AL.B	BK	60
E83AL	LH light unit	E83AL.C	BK	6
E83A-R	RH light unit	E83AR.A	BK	8
E83A-R	RH light unit	E83AR.B	BK	60
E83A-R	RH light unit	E83AR.C	BK	6
E119	Driver's side stepwell lighting lamp	E119	BK	2
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
XC317	Plug-in connector between the chassis front harness and the chassis central harness	XC317	BK	26

Routing of the exterior lighting wiring harness on the chassis - With on-site headlights

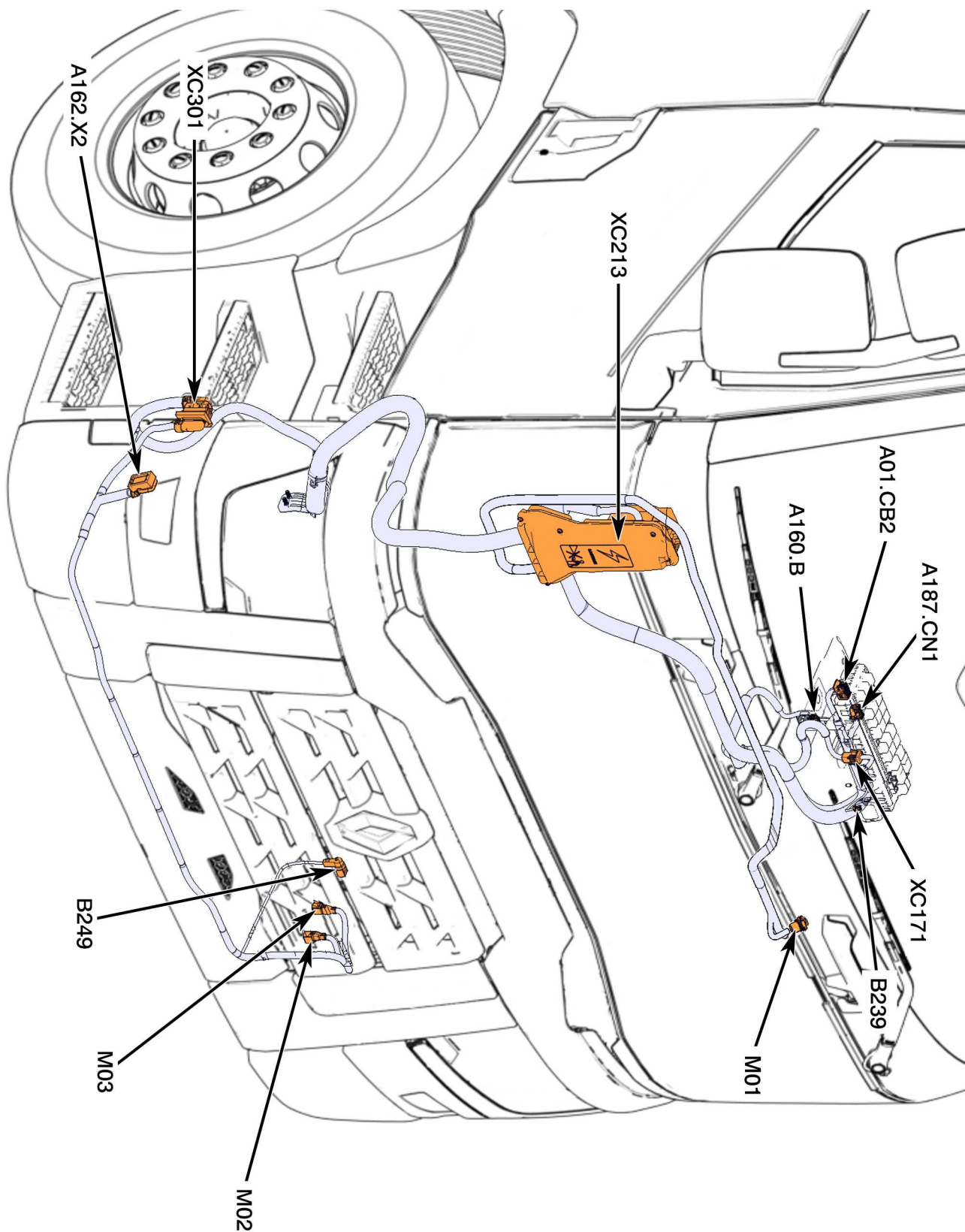


T3100786

Routing of the exterior lighting wiring harness on the chassis - With on-site headlights

Code	Function description	Connector	Colour	No. of pins
A164	Rear chassis area information management control unit (RCIOM)	A164.X1	BK	2
A164	Rear chassis area information management control unit (RCIOM)	A164.X2	GY	29
E27L	Left-hand tail lights unit	E27L	BK	7
E27R	Right-hand tail lights unit	E27R	BK	7
E83AL	LH light unit	E83AL.A	BK	8
E83AL	LH light unit	E83AL.B	BK	60
E83AL	LH light unit	E83AL.C	BK	6
E83A-R	RH light unit	E83AR.A	BK	8
E83A-R	RH light unit	E83AR.B	BK	60
E83A-R	RH light unit	E83AR.C	BK	6
E119	Driver's side stepwell lighting lamp	E119	BK	2
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26
XC302	Plug-in connector between the chassis front harness and the engine harness	XC302	GN	39
XC317	Plug-in connector between the chassis front harness and the chassis central harness	XC317	BK	26

Windscreen wiper and windscreen washer wiring harness routing

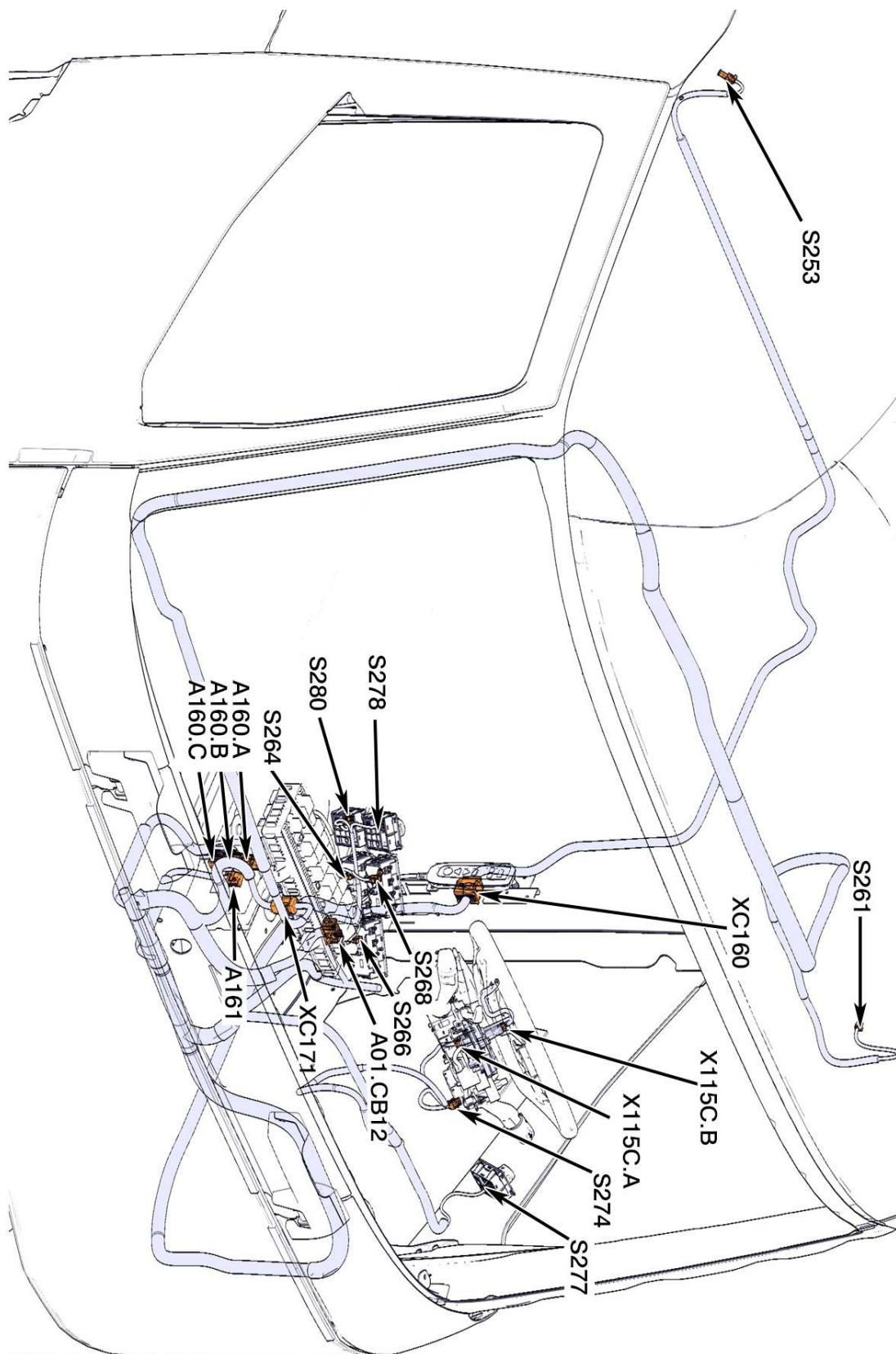


T3102192

Windscreen wiper and windscreen washer wiring harness routing

Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.C B2_p1	NL	7
A01	Electrical distribution box in cab	A01.C B2_p2	BK	18
A160	Cab information management control unit (CIOM)	A160. B	GN	12
A162	Front chassis area information management control unit (FCIOM)	A162. X2	GY	29
A187	Main vehicle management control unit (VMCU)	A187. CN1	BK	26
B239	Rain and light detection sensor assembly	B239	WH	3
B249	Screen wash level sensor	B249	GY	2
M01	Windscreen wiper motor	M01	BK	4
M02	Windscreen washer pump motor	M02	BK	2
M03	Headlamp washer pump motor	M03	BU	2
XC171	Plug-in connector between dashboard harness and console harness	XC171	YE	9
XC213	Plug-in connector between dashboard harness and front end harness	XC213	BK	25
XC301	Plug-in connector between the chassis front harness and the bumper harness	XC301	BK	26

Controls wiring harness routing



T3099276

Controls wiring harness routing

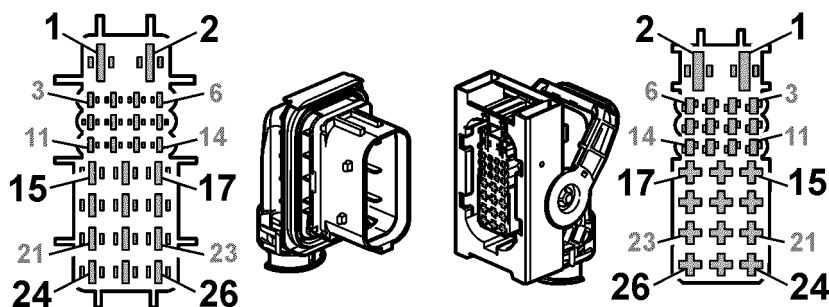
Code	Function description	Connector	Colour	No. of pins
A01	Electrical distribution box in cab	A01.CB12_p1	NL	7
A01	Electrical distribution box in cab	A01.CB12_p2	BK	18
A160	Cab information management control unit (CIOM)	A160.A	GN	30
A160	Cab information management control unit (CIOM)	A160.B	GN	12
A160	Cab information management control unit (CIOM)	A160.C	GY	12
A161	Man/machine interface management control unit (HMIIOM)	A161	BK	26
S253	Onboard equipment auxiliaries management remote control (LECM)	S253	BK	3
S261	Repositionable control unit (group 5)	S261	BK	3
S264	Repositionable control unit (group 1)	S264	BK	3
S266	Repositionable control unit (group 2)	S266	BK	3
S268	Repositionable control unit (group 3)	S268	BK	3
S274	Steering column-mounted controls	S274	BK	6
S277	External lighting control unit	S277	BU	3
S278	Cruise control control assembly	S278	BU	3
S280	Cab lighting control	S280	BU	3
X115C	Rotary switch under steering wheel	X115C.A	BK	6
X115C	Rotary switch under steering wheel	X115C.B	BN	6
XC160	Plug-in connector between the dashboard harness and the rear panel harness	XC160_p1	NL	7
XC160	Plug-in connector between the dashboard harness and the rear panel harness	XC160_p2	BK	18
XC170	Plug-in connector between dashboard harness and console harness	XC171	YE	9

CAB INTER-CONNECTORS

Cab inter-connectors - Contents

BBEC1A	See page 671	XC175	See page 684
BBEC2A	See page 671	XC176	See page 685
BBEC3A	See page 672	XC177	See page 685
XC110	See page 672	XC178	See page 685
XC136	See page 673	XC180	See page 686
XC138	See page 673	XC181	See page 686
XC146	See page 673	XC183	See page 687
XC148	See page 674	XC184	See page 687
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XC162	See page 676	XC188	See page 689
XC163_1	See page 676	XC189	See page 690
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XC170	See page 682	XC215	See page 694
XC171	See page 682	XC216	See page 694
XC172	See page 683		
XC173	See page 683		
XC174	See page 684		

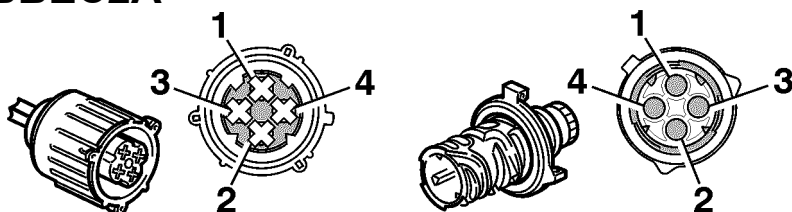
BBEC1A



T3071132

Pin No.	Designation	Polarity No.	Diagram page No.
1	Bodybuilder control pre-equipment with interchangeable switch No. 1	8083	JAF
2	Interchangeable bodybuilder control pre-equipment No. 2	8002	JAF
3	Interchangeable bodybuilder control pre-equipment No. 3	8004	JAF
4	Power train (engine running/gearbox in neutral/park brake)	8000	JAF
5	Bodybuilder pre-equipment feedback	8045	JAF
7	Control No. 1 pre-equipment for bodybuilders	8084	JAF
8	Control No. 2 pre-equipment for bodybuilders	8085	JAF
9	Control No. 3 pre-equipment for bodybuilders	8086	JAF
10	Trailer lighting power supply (+24 V)	8020	JAF
11	Freight protection alarm coded digital input	0159	JAF

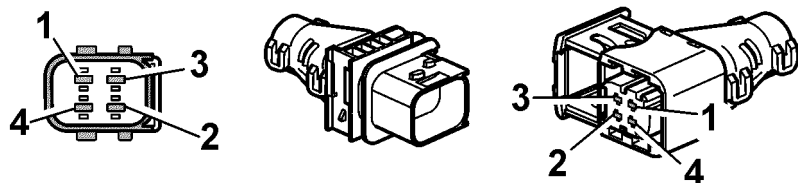
BBEC2A



T3019922

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply for bodybuilder pre-equipment central distribution box	8027	JAF
2	Power supply for bodybuilder pre-equipment central distribution box	8025	JAF
3	Vehicle general earth	1	JAF
4	Vehicle general earth	1	JAF

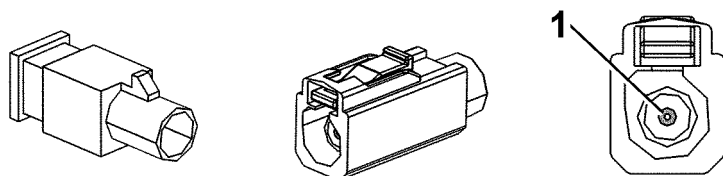
BBEC3A



T3071144

Pin No.	Designation	Polarity No.	Diagram page No.
1	Bodybuilder pre-equipment - terminal No. 1, connector No. 1	8046	JAF
2	Bodybuilder pre-equipment - terminal No. 2, connector No. 1	8047	JAF
3	Bodybuilder pre-equipment - terminal No. 3, connector No. 1	8048	JAF
4	Bodybuilder pre-equipment - terminal No. 4, connector No. 1	8049	JAF
5	Bodybuilder pre-equipment - terminal No. 5, connector No. 1	8050	JAF
6	Bodybuilder pre-equipment - terminal No. 6, connector No. 1	8051	JAF
7	Bodybuilder pre-equipment - terminal No. 7, connector No. 1	8052	JAF
10	Bodybuilder pre-equipment - terminal No. 1, connector No. 2	8032	JAF
11	Bodybuilder pre-equipment - terminal No. 2, connector No. 2	8033	JAF
12	Bodybuilder pre-equipment - terminal No. 3, connector No. 2	8034	JAF
13	Bodybuilder pre-equipment - terminal No. 4, connector No. 2	8035	JAF
19	Bodybuilder pre-equipment - terminal No. 5, connector No. 2	8036	JAF
20	Bodybuilder pre-equipment - terminal No. 6, connector No. 2	8037	JAF
21	Bodybuilder pre-equipment - terminal No. 7, connector No. 2	8038	JAF

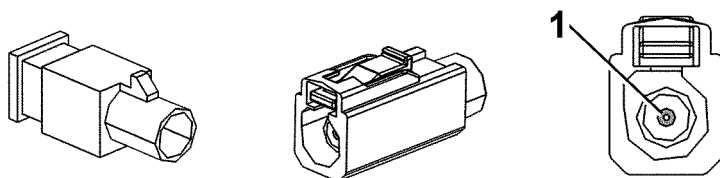
XC110



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	CB signal for fleet management	4183	GEA/GEB

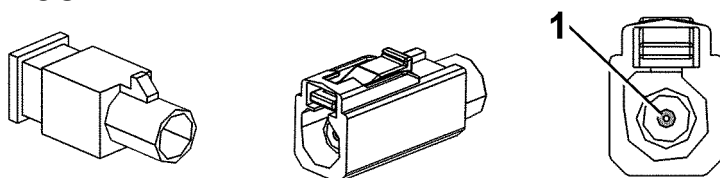
XC136



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GPS signal for fleet management	4171	CBT
2	GSM signal for fleet management	4170	CBT

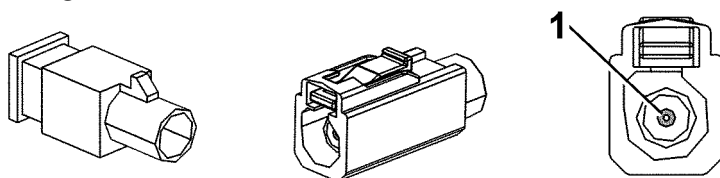
XC138



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GPS signal for fleet management	4171	CBT
2	GSM signal for fleet management	4170	CBT

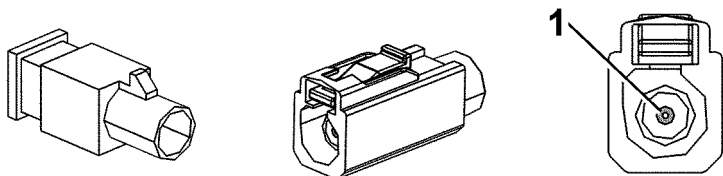
XC146



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	CB signal for fleet management	4183	GEA/GEB

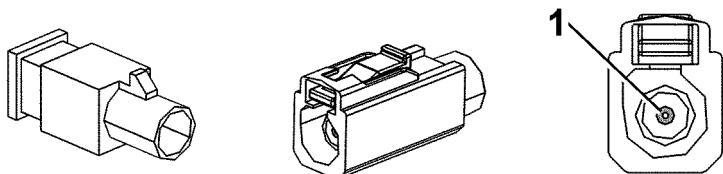
XC148



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	CB signal for fleet management	4183	GEA/GEB

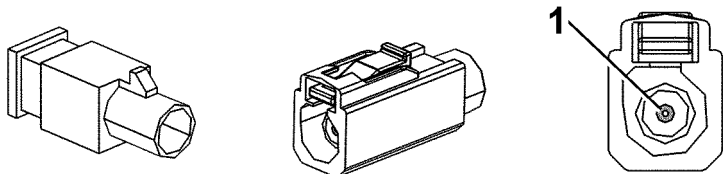
XC156



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GSM/3G/4G signal for fleet management	4179	GEA/GEB

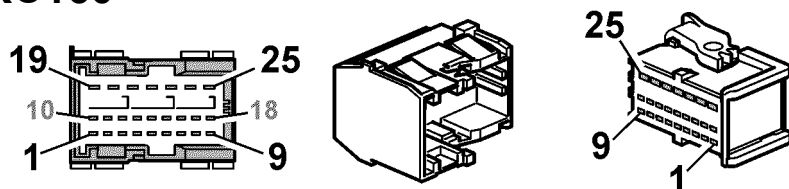
XC158



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GSM/3G/4G signal for fleet management	4179	GEA/GEB

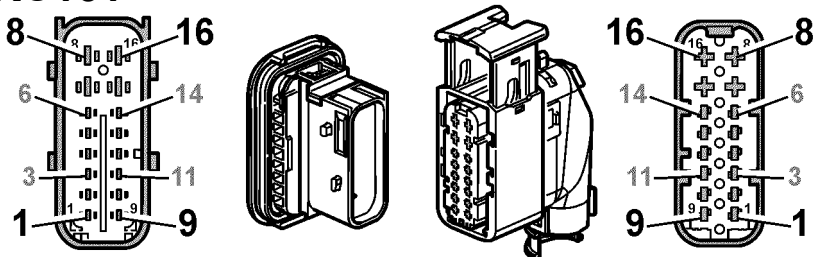
XC160



T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	24V/12V transformer earth	1069	GEA/GEB
2	Signal after amplification for LH rear loudspeaker (+)	4037	GDH
3	Signal after amplification for RH rear loudspeaker (-)	4040	GDH
8	LIN 1 bus earth, remote control for living environment auxiliaries	7107	GF1
9	LIN bus power supply via cab electrical information management ECU (CIOM)	7085	GF1
10	Fuse-protected power supply for socket (+12V) installed towards the bunk	4018	GEA/GEB
11	Signal after amplification for LH rear loudspeaker (-)	4038	GDH
12	Signal after amplification for RH rear loudspeaker (+)	4039	GDH
17	LIN bus 1 signal - remote control for living environment auxiliaries (LECP)	7106	GF1
19	Protected power supply for 24V socket (+24V)	4006	GEQ
20	Vehicle general earth	1	GEQ

XC161

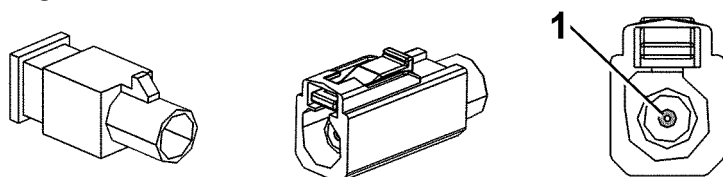


T3071129

Pin No.	Designation	Polarity No.	Diagram page No.
1	LIN bus for independent heating control	7057	GB1
2	LIN bus power supply for independent heating control (+12V)	7058	GB1
4	Electrical connection between the cab right-hand and left-hand position sensors	0017	HAA
5	Fuel supply pump earth for independent heating	1048	GB1
7	Vehicle general earth	1	GB1
10	Independent heating Inhibition	0156	GB1
12	Cab tilted	0016	HAA

13	Fuel supply pump control for independent heating	2111	GB1
15	Power supply, independent heating device	2110	GB1

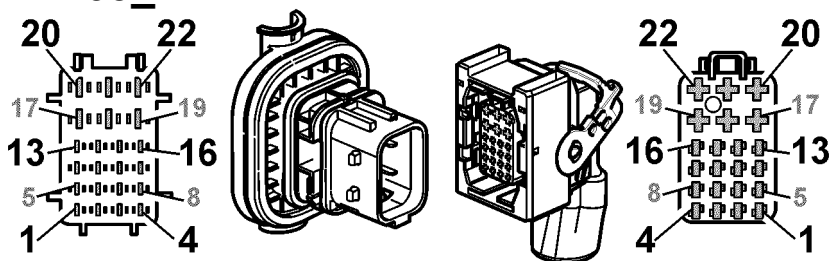
XC162



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	FM signal between the distributor and the telematics management ECU (TESP)	4168	CBT

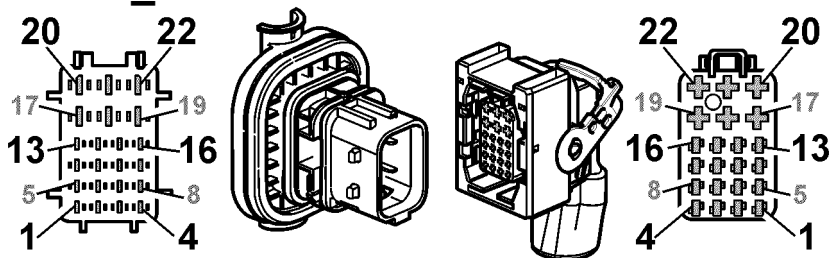
XC163_1



T3071142

Pin No.	Designation	Polarity No.	Diagram page No.
3	2284 CAN bus signal for cab safety electrical information (+)	7081	DA7
4	2284 CAN bus signal for cab safety electrical information (-)	7082	DA7
9	Power supply, LH rear-view mirror defrosting resistors	2093	DA7
18	Signal after amplification for LH front loudspeaker (+)	4033	GDH
19	Signal after amplification for LH front loudspeaker (-)	4034	GDH
20	Power supply, anti-pinch sensor and LH door information management ECU	2092	DA7
22	Vehicle general earth	1	DA7

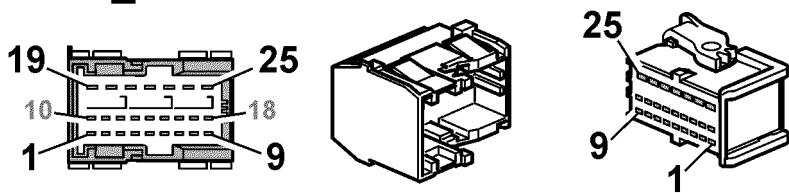
XC163_2



T3071142

Pin No.	Designation	Polarity No.	Diagram page No.
3	2284 CAN bus signal for cab safety electrical information (+)	7081	DA8
4	2284 CAN bus signal for cab safety electrical information (-)	7082	DA8
9	Power supply, RH rear-view mirror defrosting resistors	2095	DA8
18	Signal after amplification for RH front loudspeaker (+)	4035	GDH
19	Signal after amplification for RH front loudspeaker (-)	4036	GDH
20	Power supply, anti-pinch sensor and RH door information management ECU	2094	DA8
22	Vehicle general earth	1	DA8

XC164_1

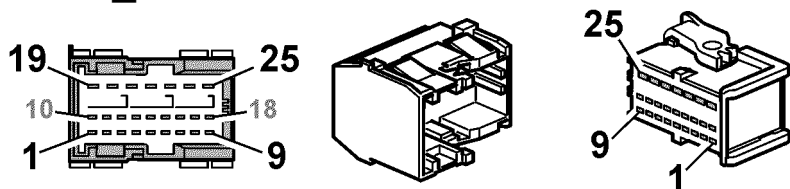


T3071131

For vehicles manufactured before 2017/06/05

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, LH rear-view mirror defrosting resistors	2093	DA7
3	Signal after amplification for LH front loudspeaker (-)	4034	GDH
6	2284 CAN bus signal for cab safety electrical information (+)	7081	DA7
12	Signal after amplification for LH front loudspeaker (+)	4033	GDH
15	2284 CAN bus signal for cab safety electrical information (-)	7082	DA7
19	Power supply, anti-pinch sensor and LH door information management ECU	2092	DA7
20	Vehicle general earth	1	DA7

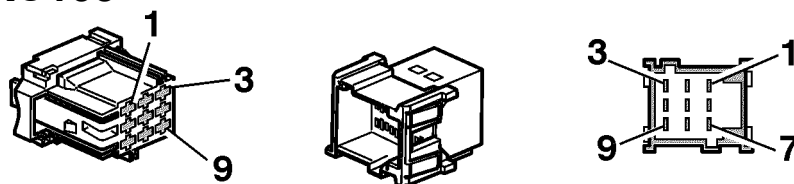
XC164_2



T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, RH rear-view mirror defrosting resistors	2095	DA8
3	Signal after amplification for RH front loudspeaker (-)	4036	GDH
6	2284 CAN bus signal for cab safety electrical information (+)	7081	DA8
12	Signal after amplification for RH front loudspeaker (+)	4035	GDH
15	2284 CAN bus signal for cab safety electrical information (-)	7082	DA8
19	Power supply, anti-pinch sensor and RH door information management ECU	2094	DA8
20	Vehicle general earth	1	DA8

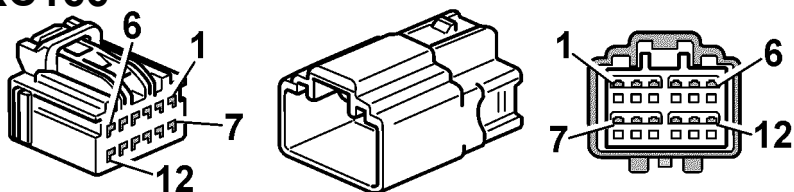
XC165



T3019929

Pin No.	Designation	Polarity No.	Diagram page No.
1	Control No. 1 pre-equipment for bodybuilders	8084	JAF
2	Tail lift or crane power supply relay control	8004	JAF
3	Bodybuilder pre-equipment feedback	8045	JAF
4	Control No. 2 pre-equipment for bodybuilders	8085	JAF
5	Work light control relay	8007	JAG
6	2284 CAN bus signal for cab safety electrical information (+)	7081	DAA
7	Control No. 3 pre-equipment for bodybuilders	8086	JAF
8	Freight protection alarm coded digital input	0159	JAF
9	2284 CAN bus signal for cab safety electrical information (-)	7082	DAA

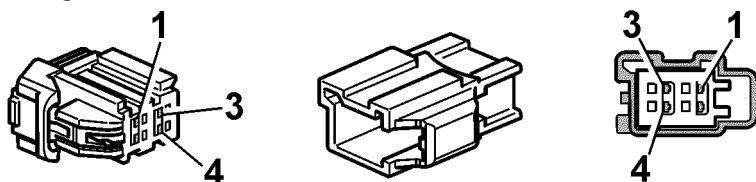
XC166



T3071127

Pin No.	Designation	Polarity No.	Diagram page No.
1	Protected power supply for television, DVD player and telephone (+12V)	4012	GE2
2	Sun-roof motor control	4157	GDA
3	Power supply, rotating beacons	8063	JAG
4	Power supply, courtesy lights	6011	GA1
5	Identification lamps lighting control	3048	EBJ
6	LIN bus signal, alarm ultrasonic emitter and receivers	5024	DAA
7	Power supply (+12 V) for accessories (CB, TV, telephone, etc.)	1069	GE2
8	Sun-roof motor control	4158	GDA
9	Power supply, optional lighting	8062	JAG
10	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG
11	LIN bus power supply, alarm ultrasonic emitter and receivers (+)	5023	DAA
12	LIN bus earth, alarm ultrasonic emitter and receivers (-)	5025	DAA

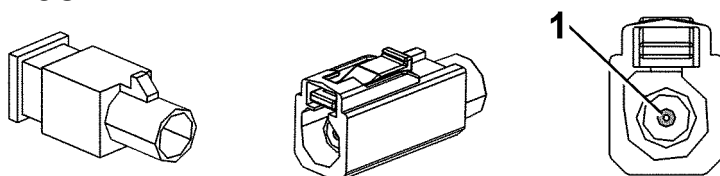
XC167



T3071138

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, reading lamps and storage lighting lamps	6008	GA1
2	Power supply, reading lamps and storage lighting lamps	6008	GA1
3	Vehicle general earth	1	GA1
4	Power supply, upper area ambient lighting lamps	6006	GA1

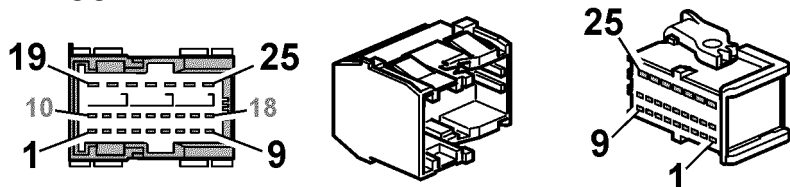
XC168



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GSM/3G/4G signal for fleet management	4179	GEA/GEB

XC169

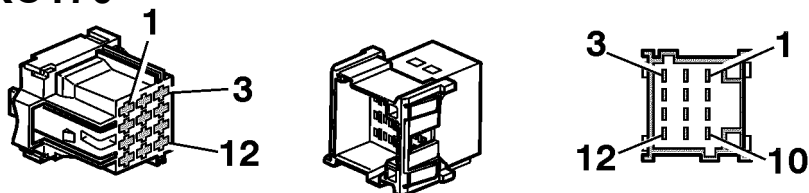


T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	TV/DVD power supply (+ 12 V)	1069	GEA
1	Bus signal, safety aid No. 3 (+)	7140	FJL
2	CAN bus signal on bodybuilder pre-equipment (+)	7014	CB1
3	Main 1939 CAN bus signal (+)	7004	WA5
4	Main 1939 CAN bus signal (+)	7004	WA5
5	2284 CAN bus signal, human/machine interface (+)	7008	WAB
6	LIN bus earth, alarm ultrasonic emitter and receivers (-)	5025	DAA
7	Power supply, identification lamps lighting circuit	3047	EBJ
7	Signal after amplification for LH rear loudspeaker (+)	4037	GDH
8	Signal after amplification for LH rear loudspeaker (+)	4037	GDH
8	BUS signal, safety aid No. 3 (-)	7141	FJL
9	Signal after amplification for RH rear loudspeaker (+)	4039	GDH
9	Bus signal, safety aid No. 2 (-)	7073	FJL
10	Telephone signal to mute radio	4189	GDH/GEA/GEB
10	Bus signal, safety aid No. 2 (-)	7074	FJL
11	CAN bus signal on bodybuilder pre-equipment (-)	7015	CB1
12	Main 1939 CAN bus signal (-)	7005	WA5
13	Main 1939 CAN bus signal (-)	7005	WA5
14	2284 CAN bus signal, human/machine interface (-)	7009	WAB
15	LIN bus signal, alarm ultrasonic emitter and receivers	5024	DAA
16	LIN bus power supply, alarm ultrasonic emitter and receivers (+)	5023	DAA
17	Signal after amplification for LH rear loudspeaker (-)	4038	GDH
17	Power supply, camera unit plus object detection and lane change sensors (LPOS)	1052	FJL
18	Signal after amplification for RH rear loudspeaker (-)	4040	GDH
18	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJL
19	Radio power supply (+24V)	4013	GDH

20	Signal after amplification for LH front loudspeaker (+)	4033	GDH
21	Signal after amplification for LH front loudspeaker (-)	4034	GDH
22	Signal after amplification for RH front loudspeaker (+)	4035	GDH
23	Signal after amplification for RH front loudspeaker (-)	4036	GDH
24	Accessories power supply (+12V)	4167	GDH
25	Vehicle speed for remote payment system management ECU	0009	GEA/GEB

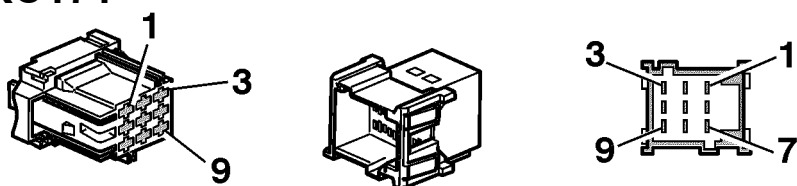
XC170



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
1	Protected power supply for television, DVD player and telephone (+12V)	4012	GE2
5	Speed sensor power supply	2031	CB1
6	Electronic earth from vehicle management ECU (VMCU)	1070	CB1
7	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG
8	Actual vehicle speed	0012	CB1
9	Speed sensor "input/output" signal	2032	CB1
10	Power supply, optional lighting	8062	JAG

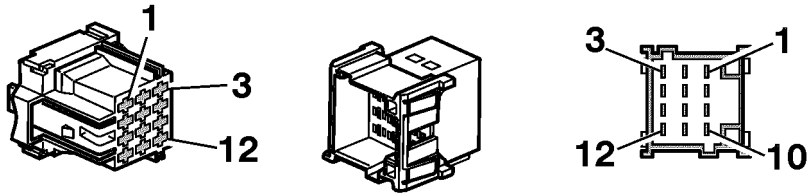
XC171



T3019929

Pin No.	Designation	Polarity No.	Diagram page No.
1	LIN bus power supply via cab electrical information management ECU (CIOM)	7085	GF1
2	Vehicle under alarm	5019	DAA
3	LIN bus power supply via cab electrical information management ECU (CIOM)	7085	FA1
4	TV/DVD power supply (+ 12 V)	4016	GEB
6	Electronic earth from vehicle management ECU (VMCU)	1070	FA1
7	LIN bus 3 signal - repositionable control panels No. 5	7102	GF1
8	Power supply (+12 V) for accessories (CB, TV, telephone, etc.)	1069	GEB
9	LIN bus power supply, rain sensor (+)	7017	FA1

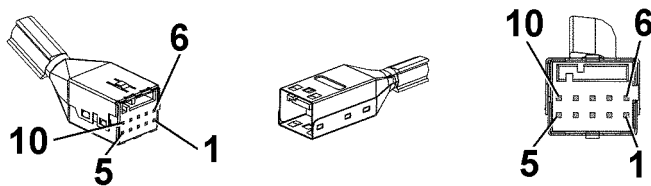
XC172



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
1	Signal after amplification for RH rear loudspeaker (-)	4040	GDH
2	Signal after amplification for RH rear loudspeaker (+)	4039	GDH
3	Signal after amplification for LH rear loudspeaker (-)	4038	GDH
4	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJL
4	Signal after amplification for LH rear loudspeaker (+)	4037	GDH
5	Bus signal, safety aid No. 2 (+)	7073	FJK/FJL
6	Audio signal from telematics management ECU (TESP) (+)	4025	CBT
7	Camera unit and lane change detector assembly earth (LPOS)	1052	FJL
8	Bus signal, safety aid No. 2 (-)	7074	FJK/FJL
8	2284 CAN bus signal, human/machine interface (+)	7008	DAE
9	Audio signal from telematics management ECU (TESP) (-)	4026	CBT
9	2284 CAN bus signal, human/machine interface (-)	7009	DAE
10	Bus signal, safety aid No. 3 (+)	7140	FJL
11	BUS signal, safety aid No. 3 (-)	7141	FJL

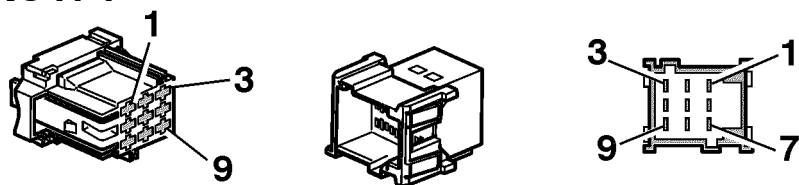
XC173



T3102984

Pin No.	Designation	Polarity No.	Diagram page No.
	Ethernet connection cable between the supplementary telematics management ECU (TESP) and the on-board management system interface ECU (TGW)	4169	CBT

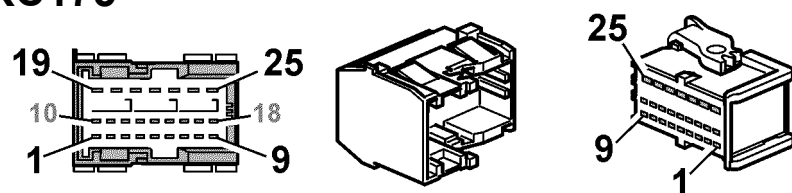
XC174



T3019929

Pin No.	Designation	Polarity No.	Diagram page No.
1	ADR master switch cut-off control	0005	BA3
2	ADR master switch cut-off control	0007	BA3
3	LIN bus power supply for independent heating control (+12V)	7058	GBP
5	ADR master switch cut-off control	0006	BA3
6	LIN bus earth, windscreen demisting sensor (-)	7065	GBP
7	Tachograph power supply (with ADR)	2022	CB1
8	ADR master switch cut-off control	0008	BA3
9	LIN bus for independent heating control	7057	GBP

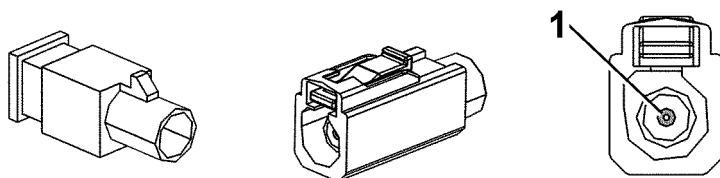
XC175



T3071131

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	GEQ
3	Seat belt fastened	5005	GC1
4	Vehicle general earth	1	GA1
8	LIN bus power supply via cab electrical information management ECU (CIOM)	7085	GF1
9	LIN bus 5 earth - air suspension controls (RCECS) (-)	7099	GF1
10	Refrigerator power supply	4004	GEQ
12	Power supply to hour meter, seats and vehicle alcolock immobiliser ECU engine running electrical signal	2038	GC1
13	Power supply, reading lamps and storage lighting lamps	6008	GA1
17	Position of storage locker door under bunk No. 1	5027	GA1
18	LIN bus 5 - air suspension controls (RCECS)	7098	GF1
19	Vehicle general earth	1	GC1

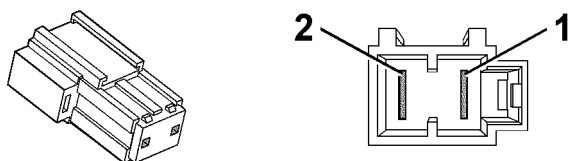
XC176



T3102980

Pin No.	Designation	Polarity No.	Diagram page No.
1	GSM/3G/4G signal for fleet management	4179	GEA/GEB

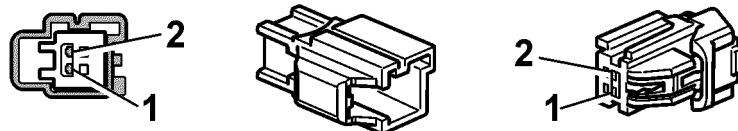
XC177



T3102990

Pin No.	Designation	Polarity No.	Diagram page No.
1	Microwave oven power supply (+24V)	4009	GEQ

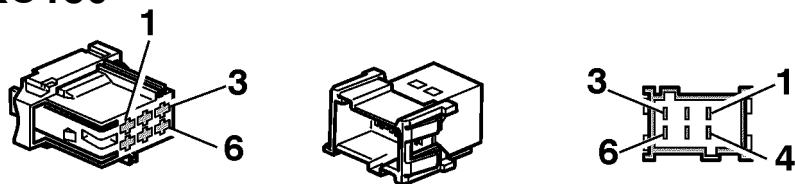
XC178



T3071136

Pin No.	Designation	Polarity No.	Diagram page No.
1	Protected power supply for television, DVD player and telephone (+12V)	4012	GE2
2	Power supply (+12 V) for accessories (CB, TV, telephone, etc.)	1069	GE2

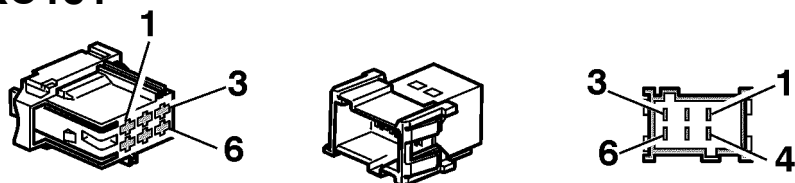
XC180



T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
1	Bodybuilder pre-equipment management (BBM) ECU power supply (+ 24 V)	2130	JAC
2	Main 2284 CAN bus signal (+)	7006	JAC
3	Main 1939 CAN bus signal (+)	7004	JAC
4	Vehicle general earth	1	JAC
5	Main 2284 CAN bus signal (-)	7007	JAC
6	Main 1939 CAN bus signal (-)	7005	JAC

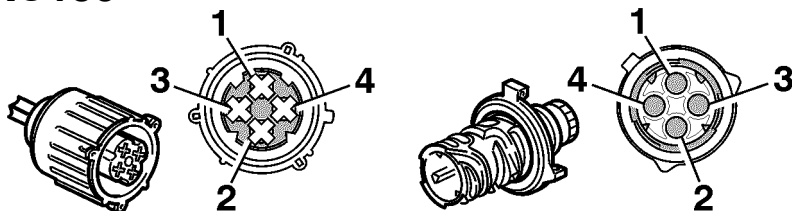
XC181



T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main power supply (+24V), video management ECU (VS)	2091	DAE
3	2284 CAN bus signal, human/machine interface (+)	7008	DAE
4	Vehicle general earth	1	DAE
6	2284 CAN bus signal, human/machine interface (-)	7009	DAE

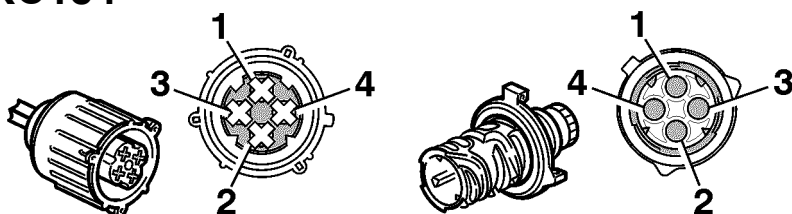
XC183



T3019922

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, rotating beacons	8063	JAG
2	Vehicle general earth	1	JAG

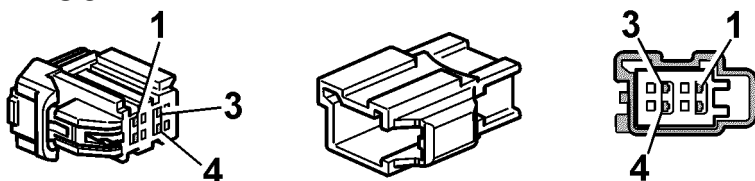
XC184



T3019922

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, rotating beacons	8063	JAG
2	Vehicle general earth	1	JAG
3	Power supply, optional lighting	8062	JAG
4	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG

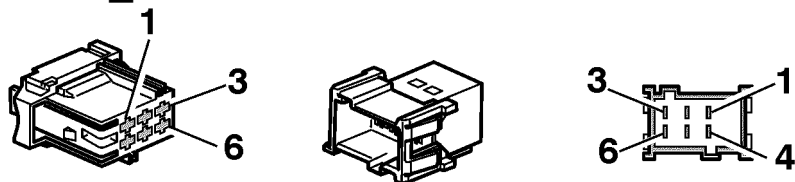
XC186



T3071138

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJK
2	Camera unit and lane change detector assembly earth (LPOS)	1052	FJK
3	Bus signal, safety aid No. 2 (+)	7073	FJK
4	Bus signal, safety aid No. 2 (-)	7074	FJK

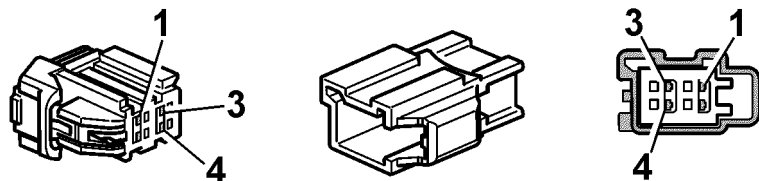
XC186_2



T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJL
2	Camera unit and lane change detector assembly earth (LPOS)	1052	FJL
3	Bus signal, safety aid No. 2 (+)	7073	FJL
4	Bus signal, safety aid No. 2 (-)	7074	FJL
5	Bus signal, safety aid No. 3 (+)	7140	FJL
6	BUS signal, safety aid No. 3 (-)	7141	FJL

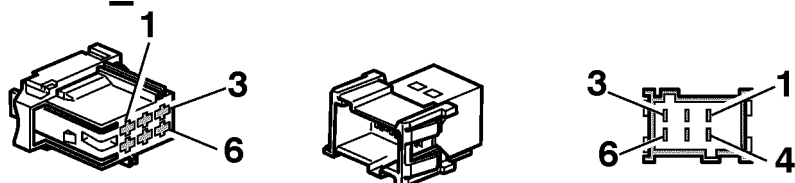
XC187



T3071138

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJK
2	Camera unit and lane change detector assembly earth (LPOS)	1052	FJK
3	Bus signal, safety aid No. 2 (+)	7073	FJK
4	Bus signal, safety aid No. 2 (-)	7074	FJK

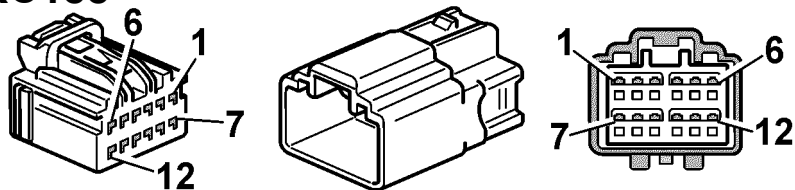
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T3019918

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJL
2	Camera unit and lane change detector assembly earth (LPOS)	1052	FJL
3	Bus signal, safety aid No. 2 (+)	7073	FJL
4	Bus signal, safety aid No. 2 (-)	7074	FJL
5	Bus signal, safety aid No. 3 (+)	7140	FJL
6	BUS signal, safety aid No. 3 (-)	7141	FJL

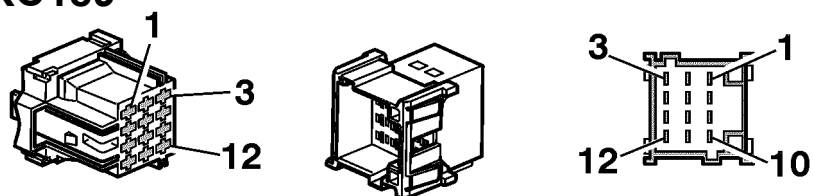
XC188



T3071127

Pin No.	Designation	Polarity No.	Diagram page No.
1	Protected power supply for television, DVD player and telephone (+12V)	4012	GE2
2	Sun-roof motor control	4157	GDA
3	Power supply, rotating beacons	8063	JAG
4	Power supply, courtesy lights	6011	GA1
5	Identification lamps lighting control	3048	EBJ
6	LIN bus signal, alarm ultrasonic emitter and receivers	5024	DAA
7	Power supply (+12 V) for accessories (CB, TV, telephone, etc.)	1069	GE2
8	Sun-roof motor control	4158	GDA
9	Power supply, optional lighting	8062	JAG
10	Power supply, auxiliary lighting (logos, roof signalling, etc.)	8064	JAG
11	LIN bus power supply, alarm ultrasonic emitter and receivers (+)	5023	DAA
12	LIN bus earth, alarm ultrasonic emitter and receivers (-)	5025	DAA

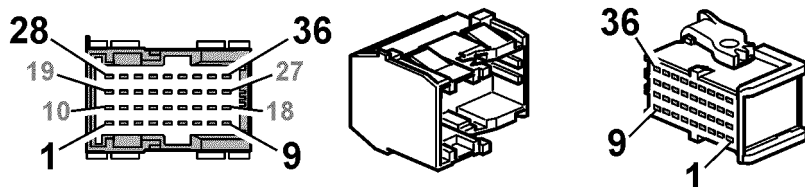
XC189



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, driving assistance management ECU (DACU) (+24V)	2121	FJK/FJL
2	Bus No. 1 signal, safety aid (+)	7026	FJK/FJL
3	Power supply, camera unit plus object detection and lane change sensors (LPOS)	2122	FJK/FJL
4	Vehicle general earth	1	FJK/FJL
5	Bus No. 1 signal, safety aid (-)	7027	FJK/FJL
6	Camera unit and lane change detector assembly earth (LPOS)	1052	FJK/FJL
7	Main CAN BUS 1939 signal (+)/BUS signal, safety aid No.2 (+)	7004/7073	FJK/FJL
8	Main 2284 CAN bus signal (+)	7006	FJK/FJL
9	Bus signal, safety aid No. 2 (+)	7073	FJK/FJL
10	Main CAN BUS 1939 signal (-)/BUS signal, safety aid No.2 (-)	7005/7074	FJK/FJL
11	Main 2284 CAN bus signal (-)	7007	FJK/FJL
12	Bus signal, safety aid No. 2 (-)	7074	FJK/FJL

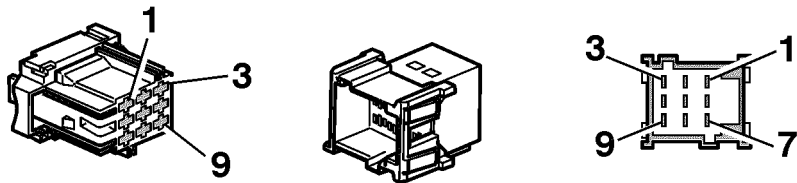
XC190



T3080545

Pin No.	Designation	Polarity No.	Diagram page No.
1	Object detection and distance measurement sensor earth (FLS)	1054	FJL
2	Bodybuilder pre-equipment feedback	8045	JAF
3	Communication bus signal - management of electrical information from the cab (+)	7022	DA6
4	LIN bus power supply for independent heating control (+12V)	7058	GBP
5	LIN bus power supply, electric parking brake control	7054	CKL
6	Power supply, chassis lateral acceleration sensor and wheel steer angle sensor	2142	CF3
7	Power supply, object detection and distance measurement sensors (FLS)	2126	FJK/FJL
8	LIN bus power supply, alarm siren (+)	5020	DAA
9	Vehicle alcolock immobiliser ECU and microwave oven power supply (+24 V)	2039	DAK
12	Communication bus signal - management of electrical information from the cab (-)	7023	DA6
13	LIN bus earth for independent heating control (-)	7059	GBP
14	LIN bus signal, electric parking brake control (-)	7056	CKL
15	Wheel steer angle sensor earth	1022	CF3
17	LIN bus earth, alarm siren (-)	5021	DAA
18	Microwave oven relay power supply	2039	GEQ
21	Main 1939 CAN bus signal (+)	7004	WA5
22	LIN bus for independent heating control	7057	GBP
23	LIN bus signal, electric parking brake control (+)	7055	CKL
24	Wheel steer angle sensor signal (+)	7052	CF3
25	Bus signal, safety aid No. 2 (+)	7073	FJK/FJL
26	LIN bus signal, alarm siren	5022	DAA
30	Main 1939 CAN bus signal (-)	7005	WA5
31	Main 2284 CAN bus signal (+)	7006	WA6
32	Main 2284 CAN bus signal (-)	7007	WA6
33	Wheel steer angle sensor signal (-)	7053	CF3
34	Bus signal, safety aid No. 2 (-)	7074	FJK/FJL

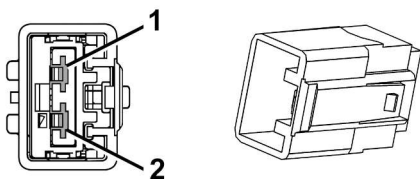
XC191



T3019929

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle alcolock immobiliser ECU and microwave oven power supply (+24 V)	2039	DAK
2	Key in "Start" position	0022	DAK
3	Bus No. 1 signal, safety aid (+)	7026	DAK
4	Vehicle general earth	1	DAK
5	Key in "Start" position	0022	DAK
6	Bus No. 1 signal, safety aid (-)	7027	DAK
7	Power supply to hour meter, seats and vehicle alcolock immobiliser ECU engine running electrical signal	2038	DAK
8	Start-up request from vehicle engine	2020	DAK

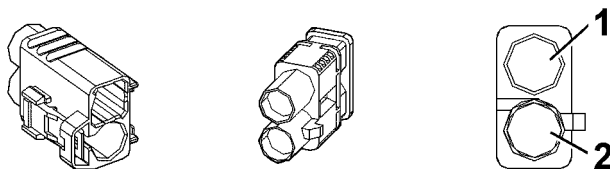
XC193



T3105938

Pin No.	Designation	Polarity No.	Diagram page No.
1	Electric coffee maker power supply (+24V)	4002	GEQ

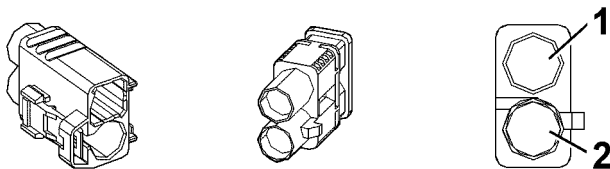
XC194



T3103207

Pin No.	Designation	Polarity No.	Diagram page No.
1	GPS antenna shielding for fleet management	4173	CBK
2	GSM antenna for fleet management	4172	CBK

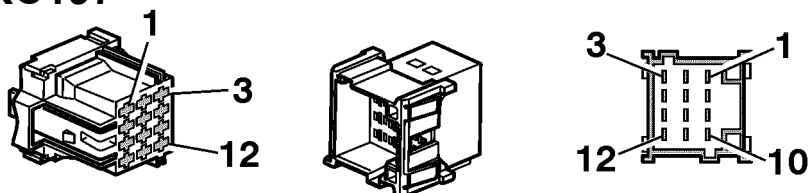
XC195



T3103207

Pin No.	Designation	Polarity No.	Diagram page No.
1	GPS antenna shielding for fleet management	4173	CBK
2	GSM antenna for fleet management	4172	CBK

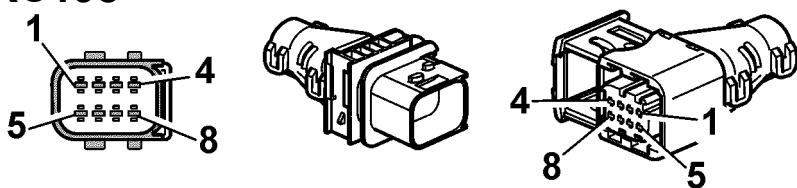
XC197



T3019801

Pin No.	Designation	Polarity No.	Diagram page No.
4	Power supply, work light	8066	JAG
5	Power supply after relay for bodybuilder pre-equipment	8031	JAF
6	Power supply after fuse, fuel heating resistor	2114	CCL
7	Power supply, work light	8067	JAG
9	Fuel heating resistor and control backlighting power supply	2115	CCL
12	Start-up request from vehicle engine	2020	CA3

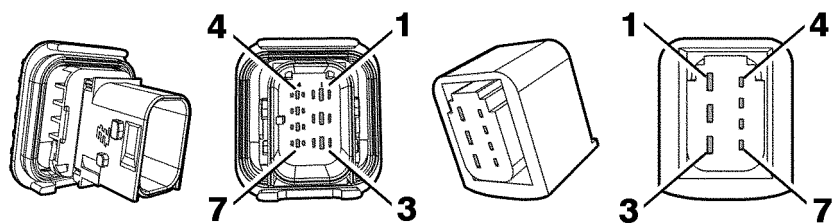
XC198



T3071145

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	JAG
2	Power supply, work light	8067	JAG

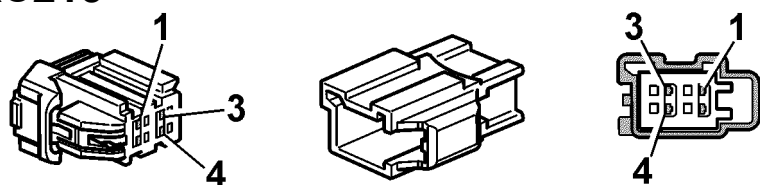
XC214



T3123894

Pin No.	Designation	Polarity No.	Diagram page No.
1	Touch screen SID backlighting	4218	GDI

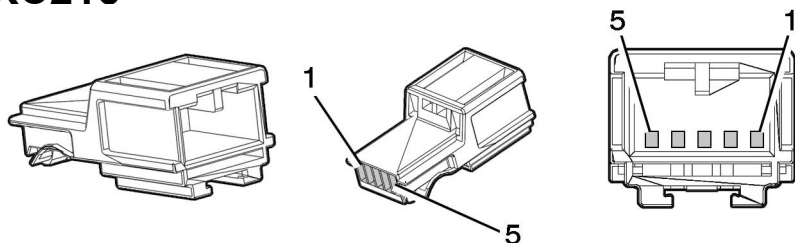
XC215



T3071138

Pin No.	Designation	Polarity No.	Diagram page No.
1	LVDS signal	4175	GDI

XC216



T3131154

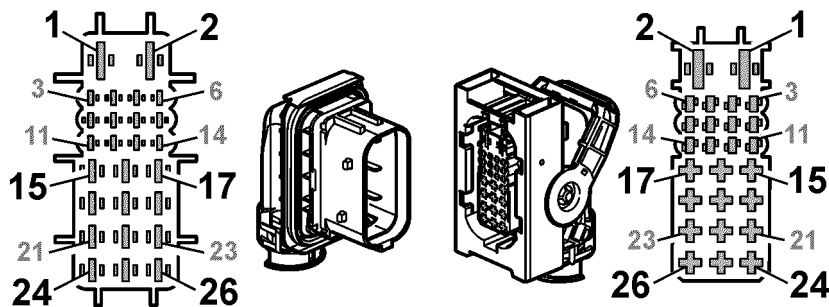
Pin No.	Designation	Polarity No.	Diagram page No.
1	Video camera signal	4073	GDI
2	Vehicle general earth	4076	GDI
3	Vehicle general earth	4076	GDI

CHASSIS INTERCONNECTORS

Chassis inter-connectors - Contents

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XC302	See page 700
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XC342	See page 718
XC351	See page 719
XC355	See page 719
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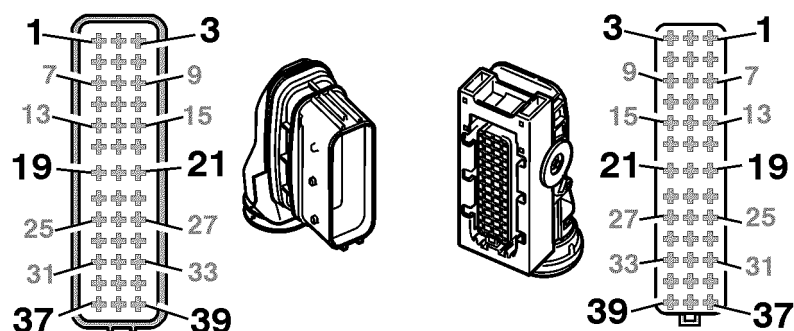
XC301



T3071132

Pin No.	Designation	Polarity No.	Diagram page No.
1	Vehicle general earth	1	EA2/EA3
3	Bus signal, safety aid No. 2 (+)	7073	FJK
3	Bus signal, safety aid No. 3 (+)	7140	FJL
4	Bus signal, safety aid No. 2 (-)	7074	FJK
4	BUS signal, safety aid No. 3 (-)	7141	FJL
5	Power supply, object detection and distance measurement sensors (FLS)	2126	FJK/FJL
6	Vehicle general earth	1	FJK
6	Object detection and distance measurement sensor earth (FLS)	1054	FJL
8	LIN bus power supply, alarm siren (+)	5020	DAA
9	LIN bus signal, alarm siren	5022	DAA
10	LIN bus earth, alarm siren (-)	5021	DAA
11	2284 CAN bus signal for chassis (+)	7000	WAA
12	2284 CAN bus signal for chassis (-)	7001	WAA
13	Start-up request from vehicle engine	2020	CA3
14	Hazard lights activated	3000	CA3
15	Vehicle general earth	1	EA2/EA3

XC302



T3019924

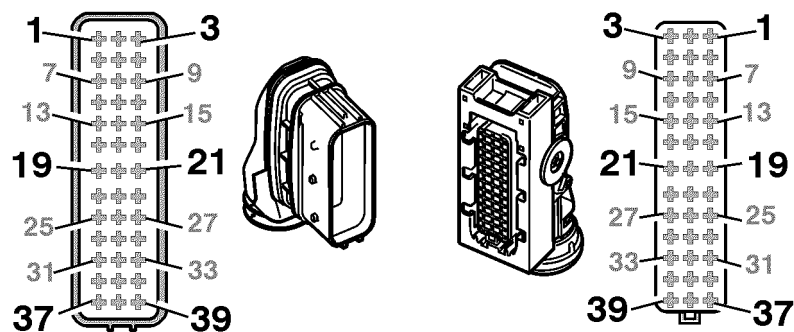
Euro III and Euro V

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main 1939 CAN bus signal (+)	7004	C1K
2	Main 2284 CAN bus signal (+)	7006	C1K
3	Engine CAN bus signal (+)	7036	C1K
4	Main 1939 CAN bus signal (-)	7005	C1K
5	Main 2284 CAN bus signal (-)	7007	C1K
6	Engine CAN bus signal (-)	7037	C1K
9	Alternator "L" terminal signal	0003	BA2
10	Alternator control (PWM)	0002	BA2
13	Engine ECU power supply (EECU) (+24V)	2044	C1K
15	Engine ECU power supply (EECU) (+24V)	2044	C1K
18	Low-level electrical signal - water present in fuel	2141	C1K
20	High-level electrical signal - water present in fuel	2140	C1K
21	Engine ECU power supply (EECU) (+24V)	2046	C1K
27	Vehicle general earth	1	C1K
31	Vehicle general earth	1	C1K
33	Engine ECU power supply (EECU) (+24V)	2045	C1K
34	Engine CAN bus signal (+)	7038	C1K
36	Engine CAN bus signal (-)	7039	C1K
37	Fuel filter heating resistor power supply	2047	C1K
39	Vehicle general earth	1	C1K

Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main 1939 CAN bus signal (+)	7004	C1L
2	Main 2284 CAN bus signal (+)	7006	C1L
3	Gearbox CAN bus signal (+)	7128	C1L
4	Main 1939 CAN bus signal (-)	7005	C1L
5	Main 2284 CAN bus signal (-)	7007	C1L
6	Gearbox CAN bus signal (-)	7129	C1L
9	Alternator "L" terminal signal	0003	BA2
10	Alternator control (PWM)	0002	BA2
13	Engine ECU power supply (EECU) (+24V)	2044	C1L
15	Engine ECU power supply (EECU) (+24V)	2044	C1L
21	Engine ECU power supply (EECU) (+24V)	2046	C1L
27	Vehicle general earth	1	C1L
31	Vehicle general earth	1	C1L
33	Engine ECU power supply (EECU) (+24V)	2045	C1L
34	Engine CAN bus signal (+)	7038	C1L
36	Engine CAN bus signal (-)	7039	C1L
37	Fuel filter heating resistor power supply	2047	C1L
39	Vehicle general earth	1	C1L

XC303



T3019924

Automated manual transmission - Euro III and Euro V

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main 1939 CAN bus signal (+)	7004	CD5
2	Main 2284 CAN bus signal (+)	7006	CD5
3	Engine CAN bus signal (+)/Gearbox CAN bus signal (+)	7036	CD5
4	Main 1939 CAN bus signal (-)	7005	CD5
5	Main 2284 CAN bus signal (-)	7007	CD5
6	Engine CAN bus signal (-)/Gearbox CAN bus signal (-)	7037	CD5
7	Electronic earth from vehicle management ECU (VMCU)	1070	CB1
8	Main 2284 CAN bus signal (+)	7006	CD5
10	Main 2284 CAN bus signal (-)	7007	CD5
12	Retarder air pressure	0044	CEK
13	Gearbox management ECU power supply	2024	CD5
15	Urea supply tank temperature and level sensors assembly power supply	2050	CEK
16	Speed sensor "input/output" signal	2032	CA3
21	Urea supply system sensors earth	1009	CEK
23	Retarder solenoid valve control	0043	CEK
24	Actual vehicle speed	0012	CB1
26	Speed sensor power supply	2031	CB1
27	Exhaust gas temperature sensor earth	1010	CEK
28	Retarder oil temperature	0045	CEK
29	Retarder coolant temperature	0046	CEK
31	Vehicle general earth	1	CD5
34	Power take-off No. 1 engaged	0166	CD5
35	Urea supply after-treatment system actuator power supply	2052	CEK
39	Vehicle general earth	1	CD5

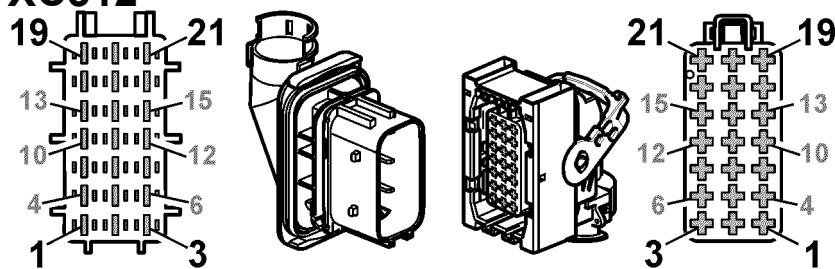
Automated manual transmission - Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Main 1939 CAN bus signal (+)	7004	CD5
2	Main 2284 CAN bus signal (+)	7006	CD5
3	Engine CAN bus signal (+)/Gearbox CAN bus signal (+)	7128	CD5
4	Main 1939 CAN bus signal (-)	7005	CD5
5	Main 2284 CAN bus signal (-)	7007	CD5
6	Engine CAN bus signal (-)/Gearbox CAN bus signal (-)	7129	CD5
7	Electronic earth from vehicle management ECU (VMCU)	1070	CB1
8	Main 2284 CAN bus signal (+)	7006	CD5
10	Main 2284 CAN bus signal (-)	7007	CD5
12	Retarder air pressure	0044	CEK
13	Gearbox management ECU power supply	2024	CD5
15	Urea supply tank temperature and level sensors assembly power supply	2050	CEK
16	Speed sensor "input/output" signal	2032	CB1
21	Urea supply system sensors earth	1009	CEK
23	Retarder solenoid valve control	0043	CEK
24	Actual vehicle speed	0012	CB1
26	Speed sensor power supply	2031	CB1
27	Exhaust gas temperature sensor earth	1010	CEK
28	Retarder oil temperature	0045	CEK
29	Retarder coolant temperature	0046	CEK
31	Vehicle general earth	1	CD5
34	Power take-off No. 1 engaged	0166	CD5
35	Urea supply after-treatment system actuator power supply	2052	CEK
39	Vehicle general earth	1	CD5

Manual gearbox

Pin No.	Designation	Polarity No.	Diagram page No.
9	First gear locking solenoid valve control	0053	CD9
17	Range splitter locking solenoid valve control	0052	CD9
19	Gearbox in "Reverse" position	0050	CD9
20	Gearbox in "Low speed" position	0049	CD9
22	Gearbox in "Low range" position	0051	CD9
31	Vehicle general earth	1	CD5
33	Gearbox oil temperature sensor earth	1011	CD9
34	Power take-off No. 1 engaged	0166	CD5
38	Gearbox in "Neutral" position	0048	CD9

XC312



T3071130

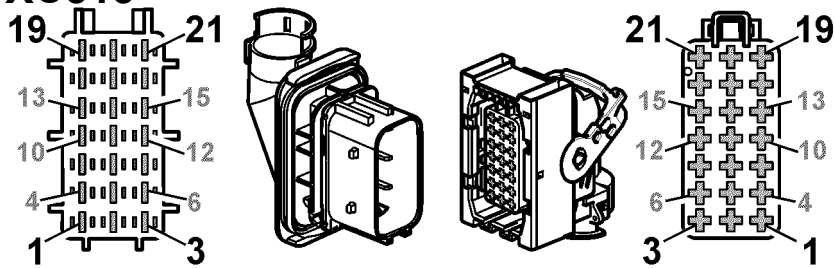
Euro III and Euro V

Pin No.	Designation	Polarity No.	Diagram page No.
1	Exhaust gas temperature sensor earth	1010	C2E
3	Temperature upstream of catalytic converter	0037	C2E
7	Engine CAN bus signal (+)/Engine CAN bus signal (+)	7036	C2E
8	Engine CAN bus signal (-)/Engine CAN bus signal (-)	7037	C2E
10	Engine CAN bus signal (+)/Engine CAN bus signal (+)	7036	C2E
11	Engine CAN bus signal (-)/Engine CAN bus signal (-)	7037	C2E
16	Urea supply metering solenoid valve control (- signal)	0035	C2E
17	Urea supply metering solenoid valve control (+ signal)	0034	C2E
19	Power supply, nitrogen oxide sensor	2048	C2E
20	Vehicle general earth	1	C2E

Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Exhaust gas temperature sensor earth	1010	C2C
2	Temperature upstream of catalytic converter	0038	C2C
3	Temperature upstream of catalytic converter	0037	C2C
4	Temperature at particulate filter outlet	0039	C2C
5	Urea supply tank temperature and level sensors assembly power supply	2050	C2C
6	Pressure in particulate filter	0036	C2C
7	Engine CAN bus signal (+)/Engine CAN bus signal (+)	7038	C2C
8	Engine CAN bus signal (-)/Engine CAN bus signal (-)	7039	C2C
9	Urea supply system sensors earth	1009	C2C
10	Engine CAN bus signal (+)/Engine CAN bus signal (+)	7038	C2C
11	Engine CAN bus signal (-)/Engine CAN bus signal (-)	7039	C2C
19	Power supply, nitrogen oxide sensor	2161	C2C
20	Vehicle general earth	1	C2C
21	Power supply, nitrogen oxide sensor	2161	C2C

XC313



T3071130

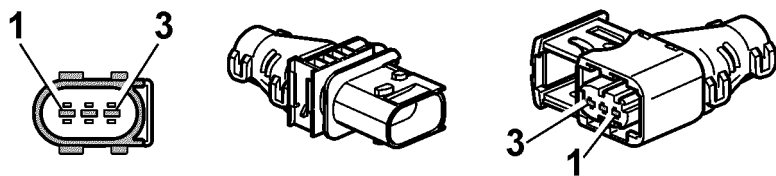
Euro III and Euro V

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply temperature/Urea supply circuit pressure sensor power supply	2051	C2F
2	Urea supply circuit pressure	0042	C2F
3	Exhaust gas temperature sensor earth	1010	C2F
6	Urea supply system sensors earth	1009	C2F
7	Urea supply level	0180	C2F
8	Urea supply temperature	0179	C2F
9	Urea supply tank temperature and level sensors assembly power supply	2050	C2F
13	Urea supply circuit pressure	0030	C2F
14	Urea supply management air temperature control	0178	C2F
15	Urea supply circuit pump control	0040	C2F
16	Urea supply circuit heater power supply (black resistor)	0033	C2F
17	Urea supply circuit heater power supply (white resistor)	0032	C2F
18	Urea supply circuit heater power supply (red resistor)	0031	C2F
19	Urea supply after-treatment system actuator power supply	2052	C2F
21	Urea supply heating solenoid valve control inside the tank	0029	C2F

Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply temperature/Urea supply circuit pressure sensor power supply	0231	C2D
2	Urea supply circuit pressure	0042	C2D
3	Urea supply circuit pressure	0030	C2D
6	Urea supply system sensors earth	1009	C2D
7	Urea supply level	0180	C2D
8	Urea supply temperature	0179	C2D
13	Urea supply circuit vacuum sensor power supply	2051	C2D
14	Urea supply circuit pump control	0040	C2D
15	Urea supply circuit pressurisation power supply	2155	C2D
16	Urea supply circuit heater power supply (black resistor)	0033	C2D
17	Urea supply circuit heater power supply (yellow resistor)	0032	C2D
18	Low level electrical signal - urea supply metering pump pilot control	0230	C2D
19	Urea supply circuit heating resistor power supply	2156	C2D
20	High level electrical signal - urea supply metering pump pilot control	0229	C2D
21	Urea supply heating solenoid valve control inside the tank	0029	C2D

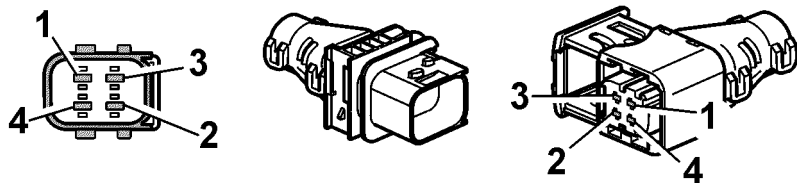
XC314



T3071121

Pin No.	Designation	Polarity No.	Diagram page No.
1	Fuel level	0054	CDU
3	Fuel level sensor earth	1012	CDU

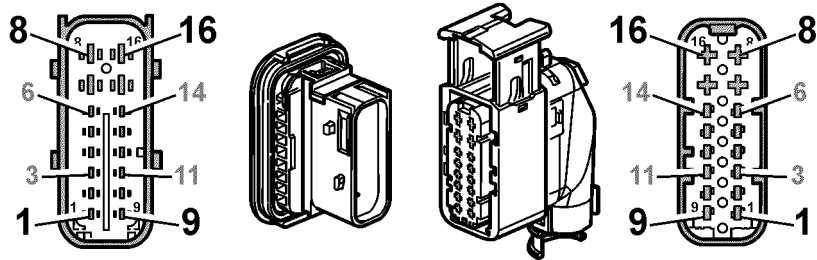
XC315



T3071144

Pin No.	Designation	Polarity No.	Diagram page No.
1	LIN bus signal, battery state sensor	7127	BA2
2	Urea supply after-treatment management ECU power supply (ACM) (+ 24 V)	2019	BA2
3	Position of ADR master switch	0004	BAH
4	Vehicle general earth	1	BAH

XC316



T3071129

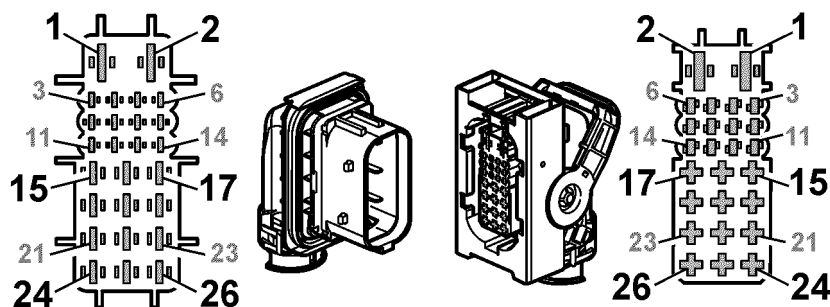
Euro III and Euro V

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply circuit pressure sensor power supply	2051	C2F
2	Urea supply circuit pressure	0042	C2F
3	Exhaust gas temperature sensor earth	1010	C2F
5	Urea supply heating solenoid valve control inside the tank	0029	C2F
6	Urea supply circuit pump control	0040	C2F
7	Urea supply circuit heater power supply (red resistor)	0031	C2F
8	Urea supply after-treatment system actuator power supply	2052	C2F
9	Urea supply tank temperature and level sensors assembly power supply	2050	C2F
10	Urea supply level	0180	C2F
11	Urea supply temperature	0179	C2F
12	Urea supply system sensors earth	1009	C2F
13	Urea supply circuit pressure	0030	C2F
14	Urea supply management air temperature control	0178	C2F
15	Urea supply circuit heater power supply (white resistor)	0032	C2F
16	Urea supply circuit heater power supply (black resistor)	0033	C2F

Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply temperature	0231	C2D
2	Urea supply circuit pressure	0042	C2D
3	Urea supply circuit pressure	0030	C2D
4	High level electrical signal - urea supply metering pump pilot control	0229	C2D
5	Urea supply heating solenoid valve control inside the tank	0029	C2D
6	Urea supply circuit pressurisation power supply	0040	C2D
7	Low level electrical signal - urea supply metering pump pilot control	0230	C2D
8	Urea supply circuit heating resistor power supply	2156	C2D
10	Urea supply level	0180	C2D
11	Urea supply temperature	0179	C2D
12	Urea supply system sensors earth	1009	C2D
13	Urea supply circuit pressure sensor power supply	2051	C2D
14	Urea supply circuit pump control	0040	C2D
15	Urea supply circuit heater power supply (yellow resistor)	0032	C2D
16	Urea supply circuit heater power supply (black resistor)	0033	C2D

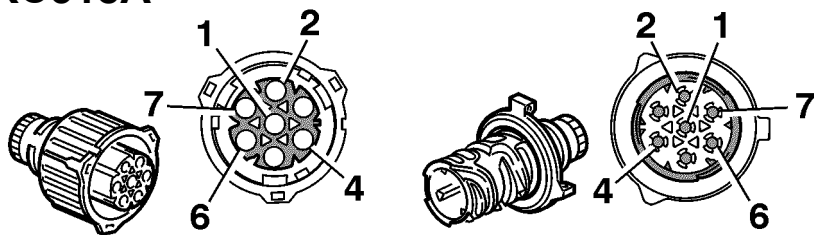
XC317



T3071132

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD
5	Rear wheel differential lock solenoid valve control	0062	CDU
7	Trailer EBS CAN bus signal (+)/Key in "Ignition" position for trailer socket	7083/0160	HBD/HBE
8	Trailer socket EBS CAN bus signal (-)/Trailer lights control	7084/0161	HBD/HBE
11	2284 CAN bus signal for chassis (+)	7000	EAA
12	2284 CAN bus signal for chassis (-)	7001	EAA
13	Start-up request from vehicle engine	2020	EAA
14	Hazard lights activated	3000	EAA
15	Vehicle general earth	1	EAA
16	Vehicle general earth	1	EAA
17	Power supply, trailer LH direction indicator lights	3050	HBE
18	Power supply, trailer RH direction indicator lights	3051	HBE
19	Power supply, trailer LH position lights	3052	HBE
20	Power supply, trailer RH position lights	3053	HBE
21	Power supply, trailer stop lights	3054	HBE
22	Lubrication system power supply	2026	JAE
23	Trailer socket power supply (+24 V)/Automatic fifth wheel position (sensor No.1)	8017/0162	HBD/JAE
24	Starting assistance information signal (-) or bodybuilder pre-equipment on the trailer socket/Automatic fifth wheel position (sensor No.2)	8018/0163	HBD/JAE
25	Rear steered axle information signal (+) or bodybuilder pre-equipment on the trailer socket/Automatic fifth wheel position (sensor No.3)	8019/0164	HBD/JAE
26	Trailer lighting power supply (+24 V)/Automatic fifth wheel sensor electronic earth	8020/1056	HBD/JAE

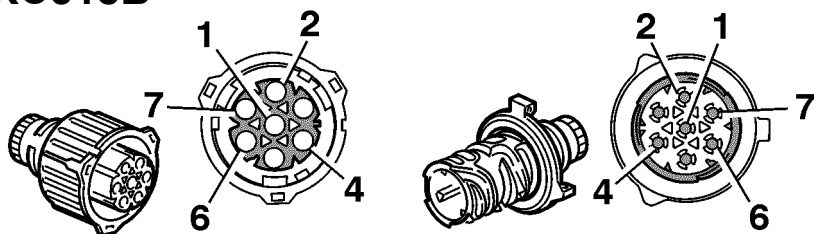
XC318A



T3020295

Pin No.	Designation	Polarity No.	Diagram page No.
4	Power supply, coupling area lighting spotlight	8068	JAE
7	Vehicle general earth	1	JAE

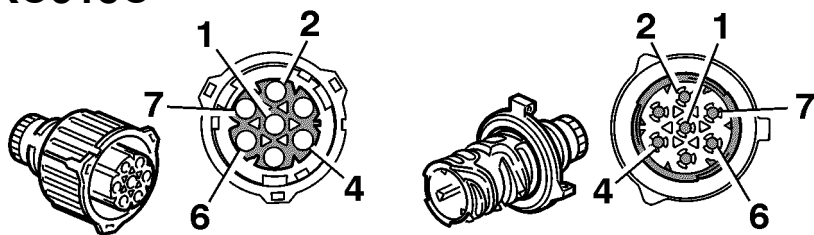
XC318B



T3020295

Pin No.	Designation	Polarity No.	Diagram page No.
4	Power supply, coupling area lighting spotlight	8068	JAE
7	Vehicle general earth	1	JAE

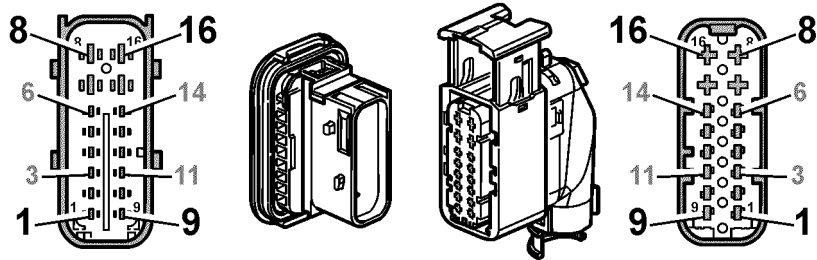
XC318C



T3020295

Pin No.	Designation	Polarity No.	Diagram page No.
4	Power supply, coupling area lighting spotlight	8068	JAE
7	Vehicle general earth	1	JAE

XC319



T3071129

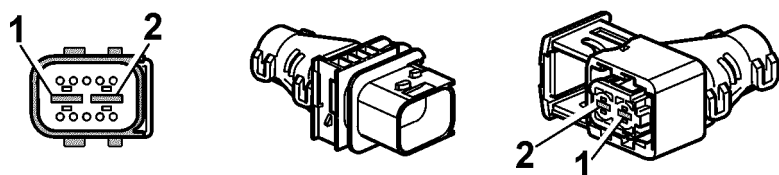
Euro III and Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply circuit pressure sensor power supply	2051	C2F
2	Urea supply circuit pressure	0042	C2F
3	Exhaust gas temperature sensor earth	1010	C2F
5	Urea supply heating solenoid valve control inside the tank	0029	C2F
6	Urea supply circuit pump control	0040	C2F
7	Urea supply circuit heater power supply (red resistor)	0031	C2F
8	Urea supply after-treatment system actuator power supply	2052	C2F
9	Urea supply tank temperature and level sensors assembly power supply	2050	C2F
10	Urea supply level	0180	C2F
11	Urea supply temperature	0179	C2F
12	Urea supply system sensors earth	1009	C2F
13	Urea supply circuit pressure	0030	C2F
14	Urea supply management air temperature control	0178	C2F
15	Urea supply circuit heater power supply (yellow resistor)	0032	C2F
16	Urea supply circuit heater power supply (black resistor)	0033	C2F

Euro VI

Pin No.	Designation	Polarity No.	Diagram page No.
1	Urea supply temperature	0231	C2D
2	Urea supply circuit pressure	0042	C2D
3	Urea supply circuit pressure	0030	C2D
4	High level electrical signal - urea supply metering pump pilot control	0229	C2D
5	Urea supply heating solenoid valve control inside the tank	0029	C2D
6	Urea supply circuit pressurisation power supply	0040	C2D
7	Low level electrical signal - urea supply metering pump pilot control	0230	C2D
8	Urea supply circuit heating resistor power supply	2156	C2D
10	Urea supply level	0180	C2D
11	Urea supply temperature	0179	C2D
12	Urea supply system sensors earth	1009	C2D
13	Urea supply circuit pressure sensor power supply	2051	C2D
14	Urea supply circuit pump control	0040	C2D
15	Urea supply circuit heater power supply	0032	C2D
16	Urea supply circuit heater power supply (black resistor)	0033	C2D

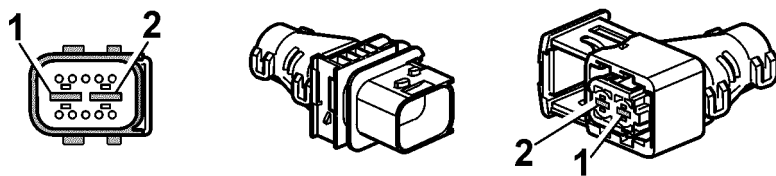
XC321



T3071143

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, front chassis area electrical information management ECU (FCIOM) (+24V)	2015	BA2
2	Vehicle general earth	1	EA2/EA3

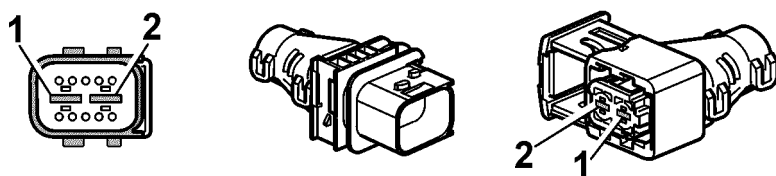
XC322



T3071143

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, front chassis area electrical information management ECU (FCIOM) (+24V)	2016	BA2
2	Vehicle general earth	1	EA2/EA3/HAA

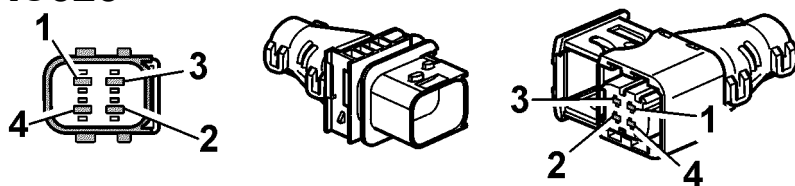
XC323



T3071143

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, rear chassis area electrical information management ECU (RCIOM) (+24V)	2017	EAA
2	Power supply, rear chassis area electrical information management ECU (RCIOM) (+24V)	2018	EAA

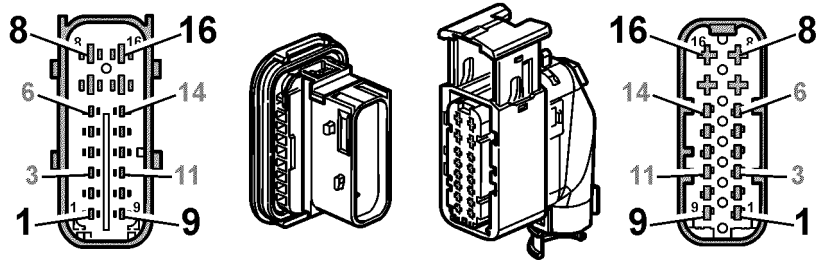
XC325



T3071144

Pin No.	Designation	Polarity No.	Diagram page No.
1	LIN bus signal, battery state sensor	7127	BA2
2	Urea supply after-treatment management ECU power supply (ACM) (+ 24 V)	2019	BA2

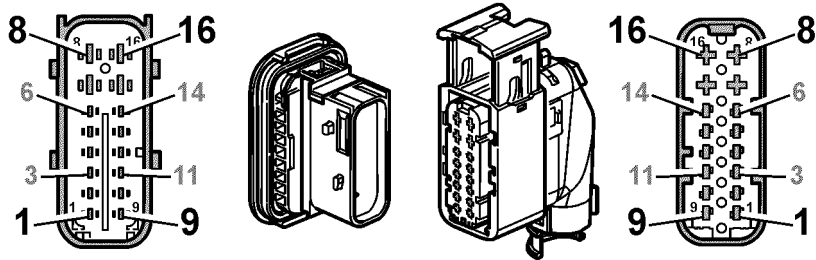
XC327



T3071129

Pin No.	Designation	Polarity No.	Diagram page No.
1	Tachograph power supply (with ADR)	2022	BA3
2	Position of ADR master switch	0004	BA3
4	ADR master switch cut-off control	0008	BA3
5	ADR master switch cut-off control	0005	BA3
6	ADR master switch cut-off control	0006	BA3
7	Vehicle general earth	1	BA3
8	Vehicle general earth	1	BA3
9	LIN bus signal, battery state sensor	7127	BA2
10	ADR master switch cut-off control	0005	BA3
15	Urea supply after-treatment management ECU power supply (ACM) (+ 24 V)	2019	BA2

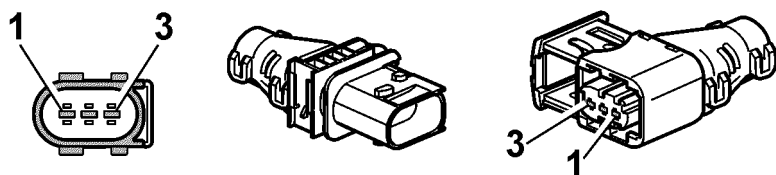
XC328



T3071129

Pin No.	Designation	Polarity No.	Diagram page No.
1	Tachograph power supply (with ADR)	2022	BA3
4	ADR master switch cut-off control	0008	BA3
5	ADR master switch cut-off control	0007	BA3
6	ADR master switch cut-off control	0006	BA3
7	Vehicle general earth	1	BA3
8	Vehicle general earth	1	BA3
10	ADR master switch cut-off control	0005	BA3

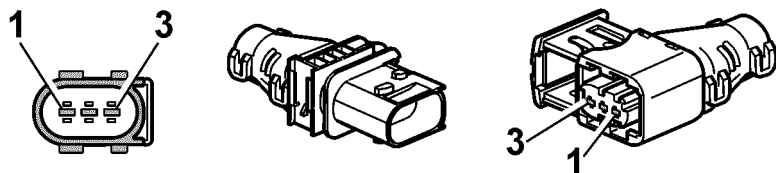
XC330



T3071121

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, front position lights	3017	EBH
3	Vehicle general earth	1	EBH

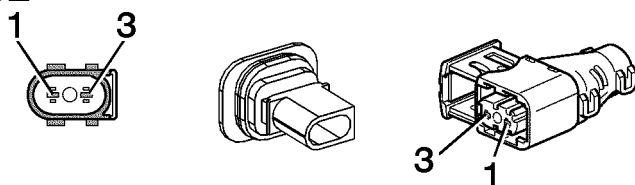
XC331



T3071121

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, rear position lights	3066	EBH
3	Vehicle general earth	1	EBH

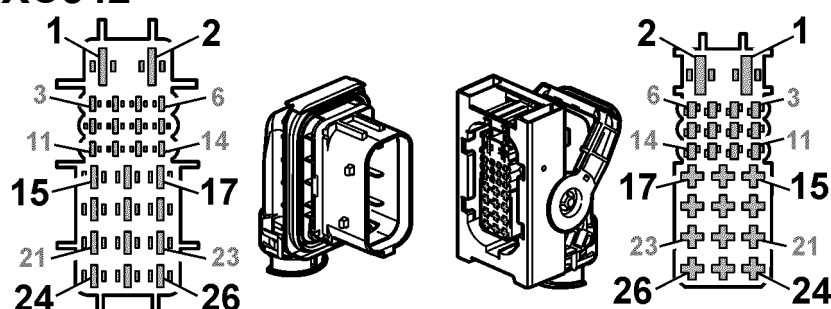
XC332



T3102986

Pin No.	Designation	Polarity No.	Diagram page No.
1	Brake pad wear sensors series interconnection	0113	CFR
3	Brake pad wear sensor assembly	0119	CFR

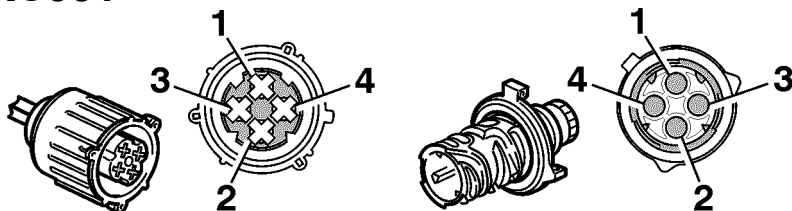
XC342



T3071132

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, ABS/EBS trailer socket (+24V)	2129	HBD
5	EBS CAN bus signal, trailer socket (+)	7083	HBD
6	EBS CAN bus signal, trailer socket (-)	7084	HBD
8	Key in "Ignition position" for trailer socket	0160	HBD
9	Trailer lamps inspection	0161	HBD
15	Power supply, trailer LH direction indicator lights	3050	HBD
16	Power supply, trailer RH direction indicator lights	3051	HBD
17	Power supply, trailer LH position lights	3052	HBD
18	Power supply, trailer RH position lights	3053	HBD
19	Power supply, trailer stop lights	3054	HBD
20	Power supply for trailer socket (+24V)	8017	HBD
21	Bodybuilder pre-equipment on trailer connector or starting assistance information (-) signal	8018	HBD
22	Bodybuilder pre-equipment on trailer connector or steered rear axle information (+) signal	8019	HBD
23	Trailer lighting power supply (+24 V)	8020	HBD
24	Power supply, trailer fog lights	3055	HBD
25	Power supply, trailer reversing lights	3056	HBD

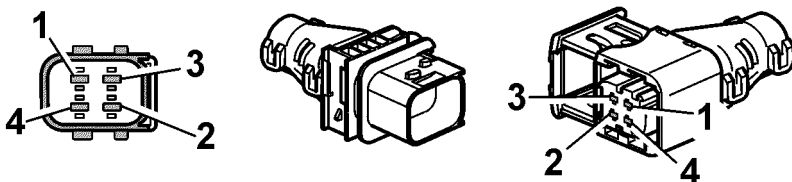
XC351



T3019922

Pin No.	Designation	Polarity No.	Diagram page No.
1	Power supply, front position lights	3017	EBH
2	Power supply, rear position lights	3066	EBH
3	Vehicle general earth	1	EBH
4	Vehicle general earth	1	EBH

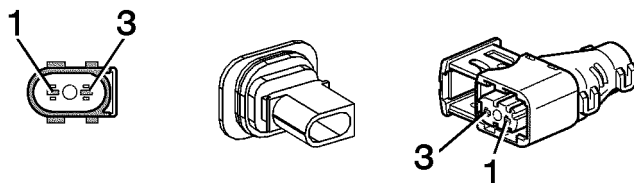
XC355



T3071144

Pin No.	Designation	Polarity No.	Diagram page No.
1	LIN bus signal, battery state sensor	7127	BA2
2	Urea supply after-treatment management ECU power supply (ACM) (+ 24 V)	2019	BA2
3	Position of ADR master switch	0004	BAH

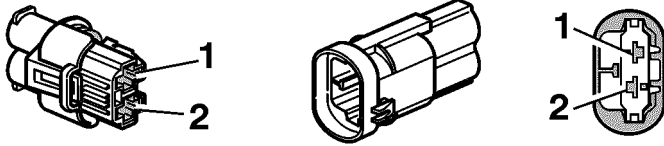
XC357



T3102986

Pin No.	Designation	Polarity No.	Diagram page No.
1	Electronic earth, brake pad wear sensor assembly	1035	CFR
3	Brake pad wear sensors series interconnection	0113	CFR

XT65



T3019931

Pin No.	Designation	Polarity No.	Diagram page No.
1	Direct power supply (+) after storage batteries (windscreen de-icing)	2268	BA2
2	-	-	-



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