

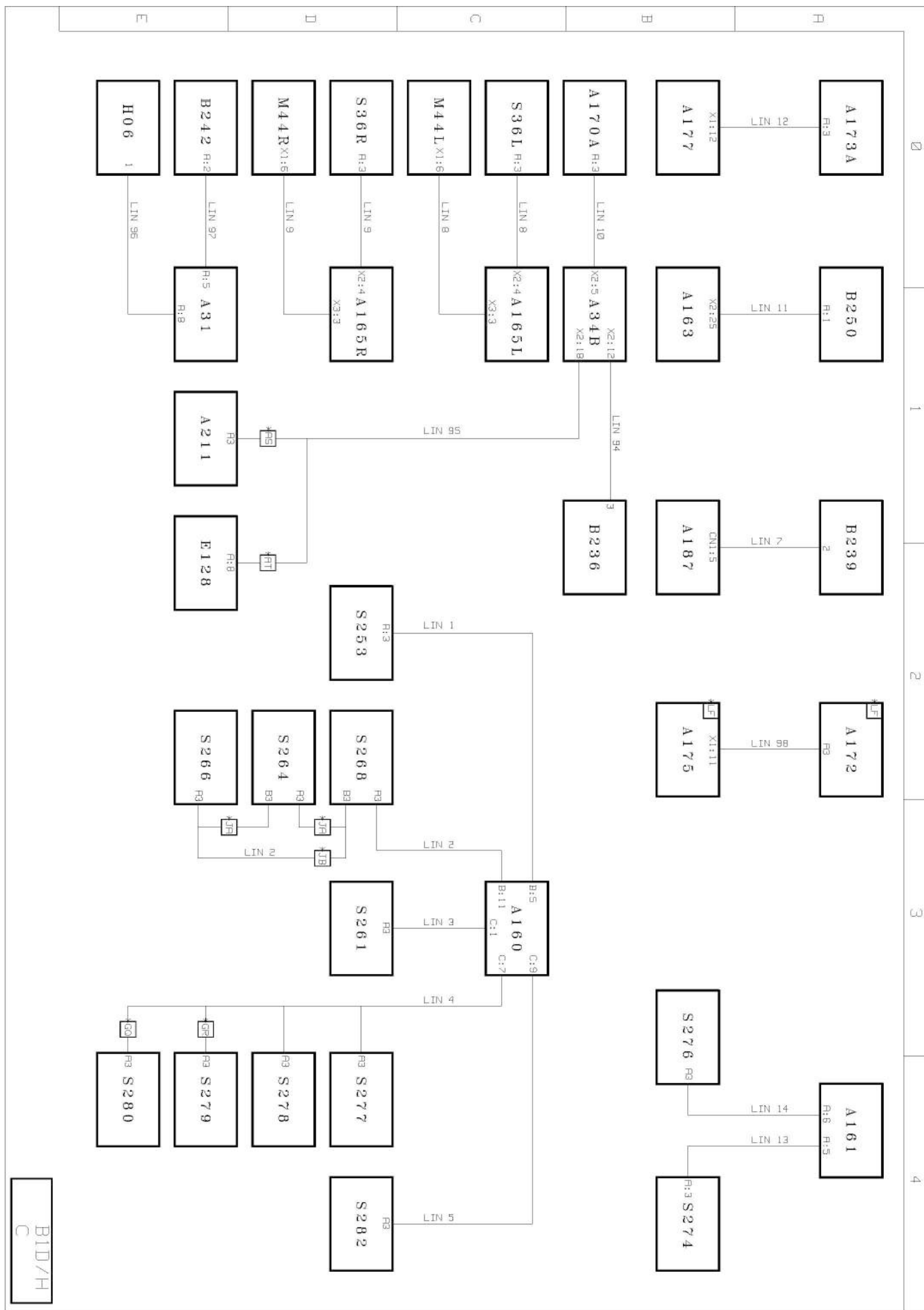
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# Communication bus architecture - LIN BUS architecture



# 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

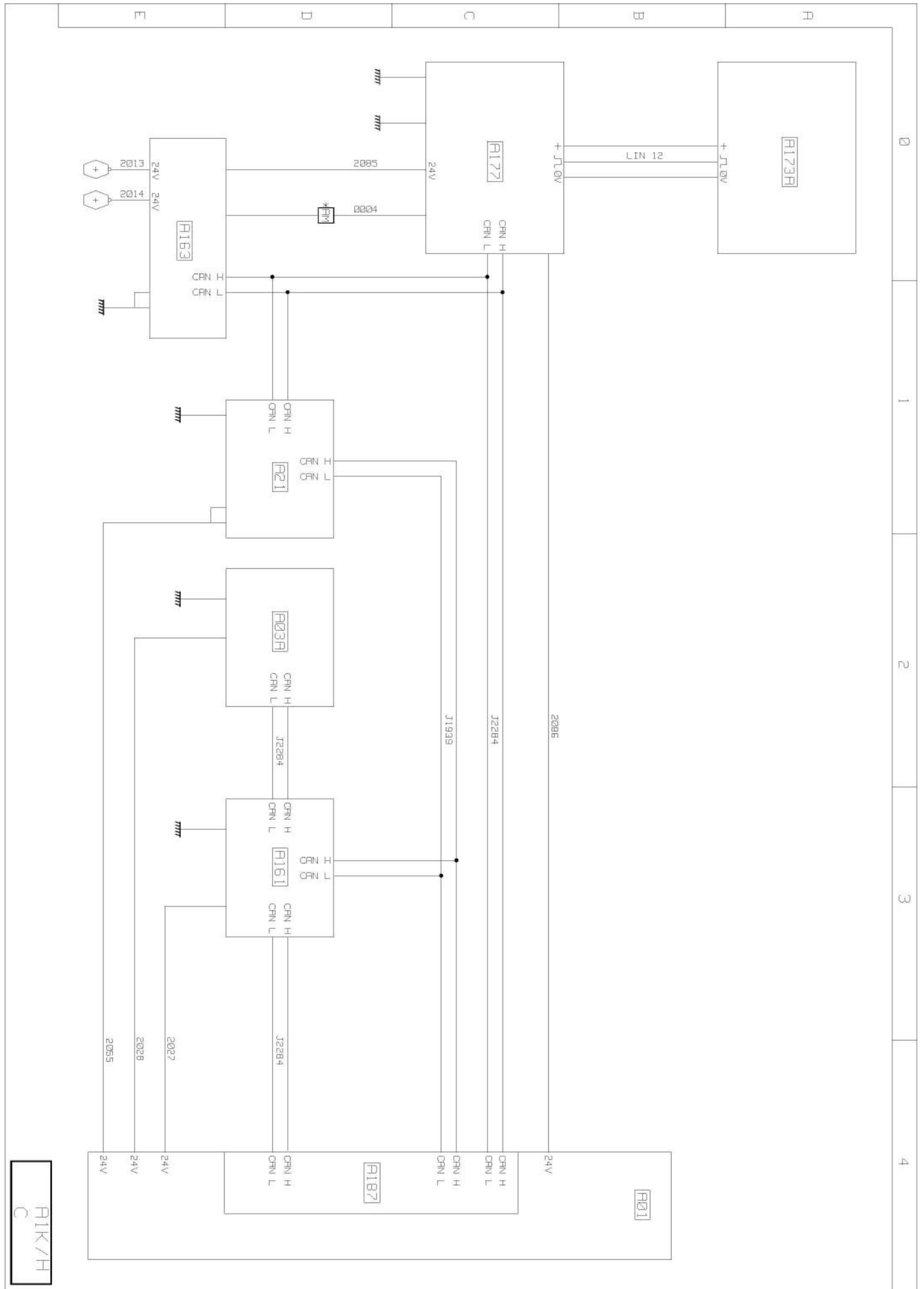
# Shared function - Euro VI anti-pollution

## Key to devices

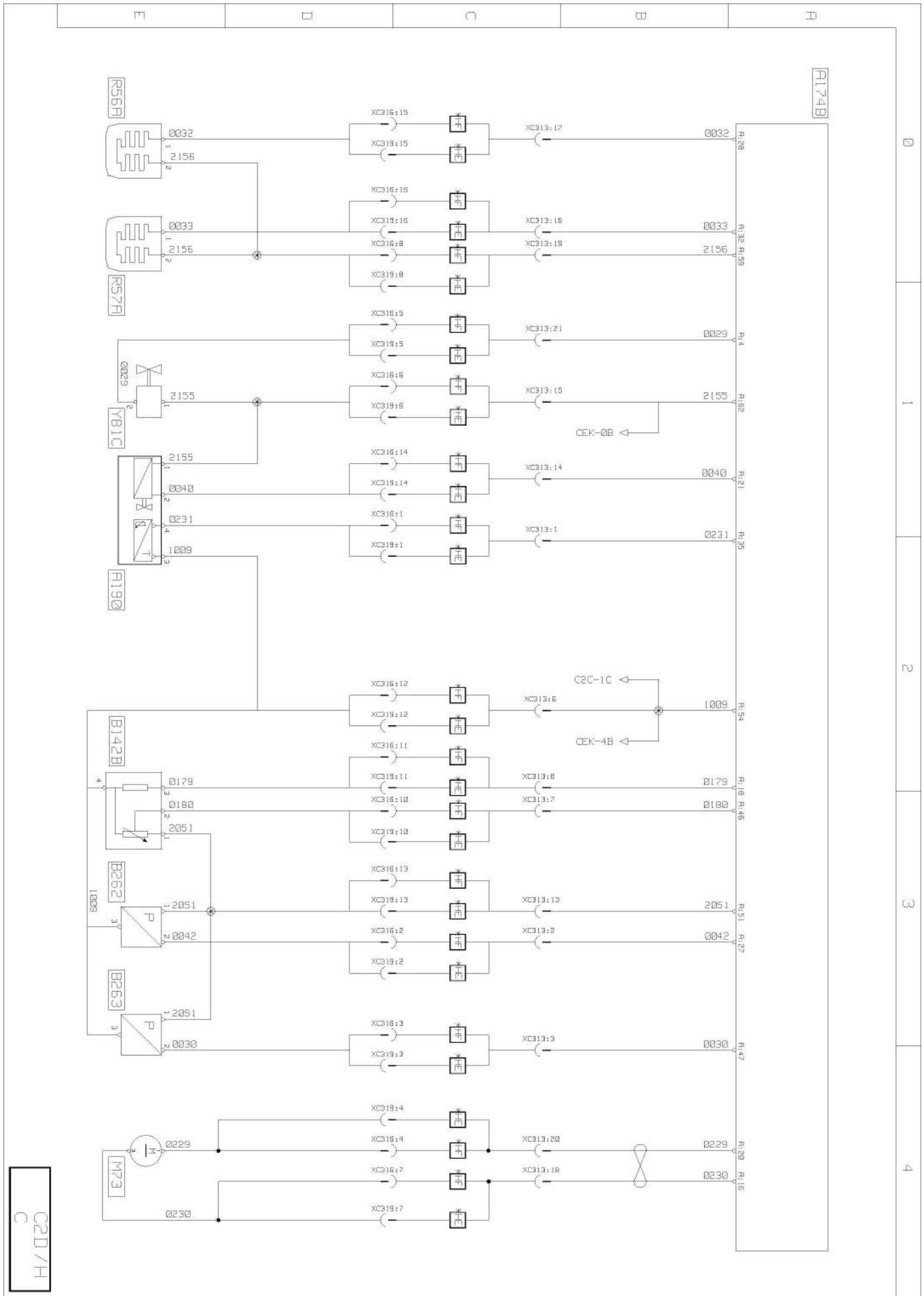
Code	Function description	Diagram page No.
<b>A01</b>	Electrical distribution box in cab	-
<b>A13B</b>	Automated manual transmission management control unit	CD5
<b>A14</b>	Engine electronic control unit (EECU)	C1A/C1B/C1C/C1D/C1G/ C1R/C1S/C1T/C1U/C1X
<b>A174B</b>	Exhaust gas after-treatment control module (ACM)	C2C/C2D/CEK
<b>A187</b>	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
<b>A190</b>	Air control solenoid and urea temperature sensor assembly	C2D
<b>B96</b>	Nitrogen oxide concentration sensor	C2C
<b>B96B</b>	Nitrogen oxide concentration sensor downstream of catalytic converter	C2C
<b>B142B</b>	Urea tank temperature and level sensor assembly	C2D/C2F
<b>B262</b>	Urea pressure sensor	C2D
<b>B263</b>	Air pressure sensor inside the urea tank	C2D
<b>M73</b>	Urea supply metering pump	C2D
<b>R56A</b>	Urea heating resistor (on the circuit between the tank and the pump module, yellow hose)	C2D
<b>R57A</b>	Urea heating resistor (on the circuit between the pump module and the injector, black hose)	C2D
<b>Y81C</b>	Cooling solenoid valve for the urea	C2D

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



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



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

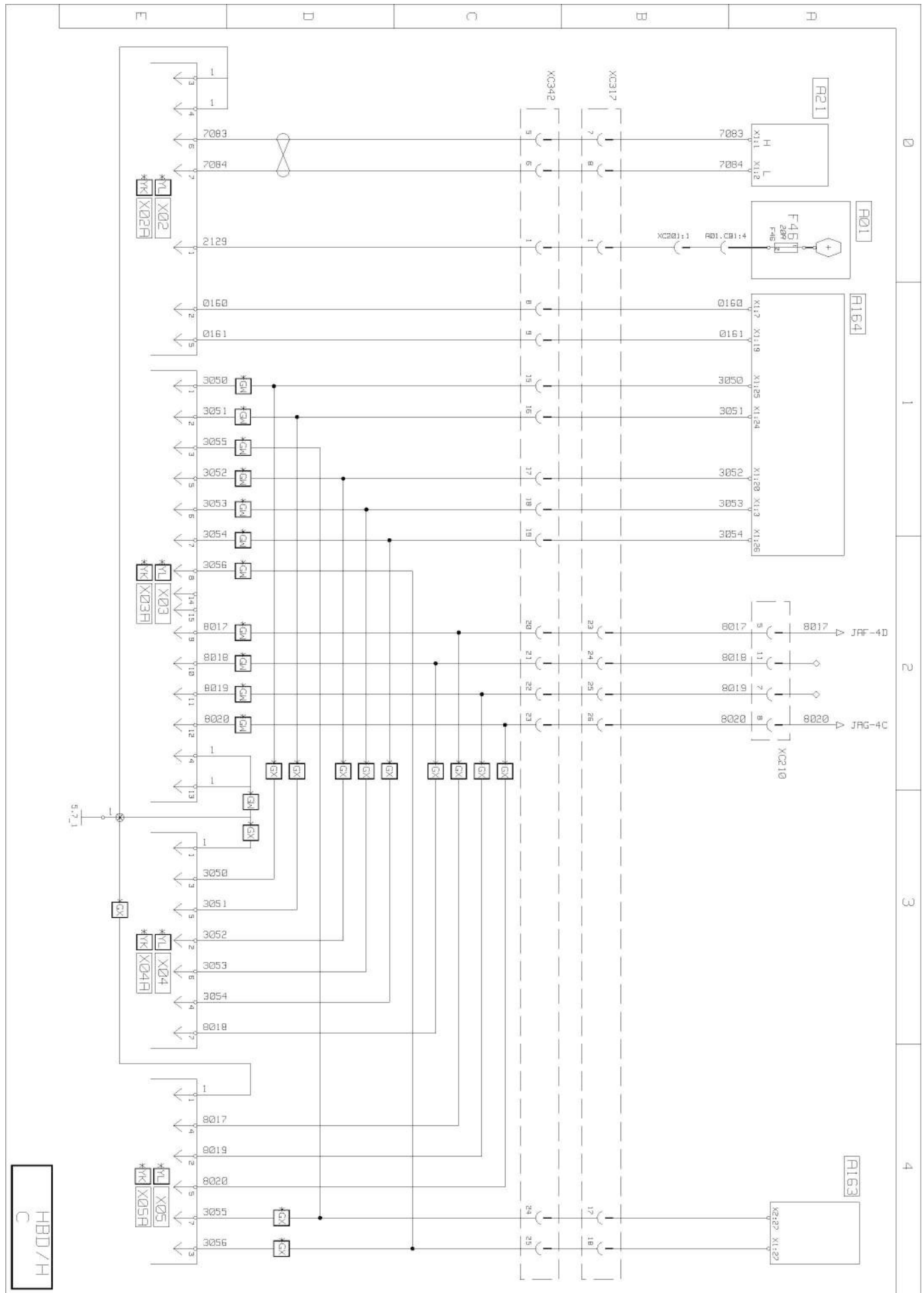
## Key to devices

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

# Trailer connections - Rigid trailer sockets



HBD/H  
C



# 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

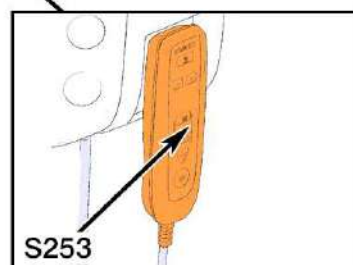
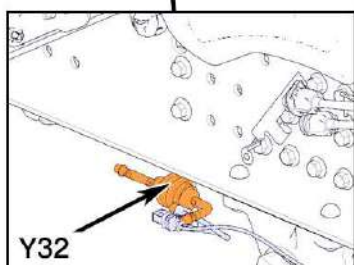
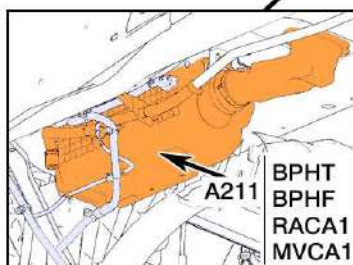
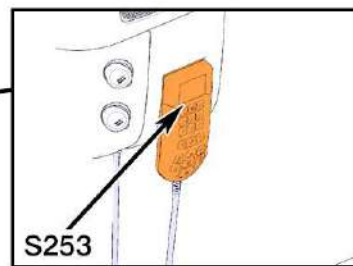
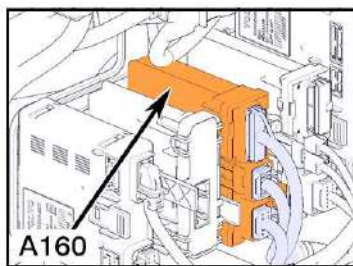
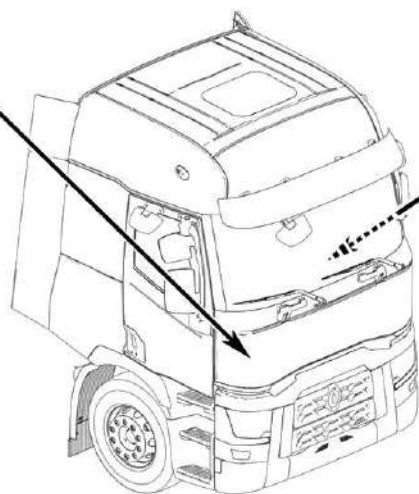
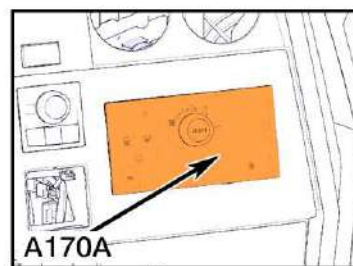
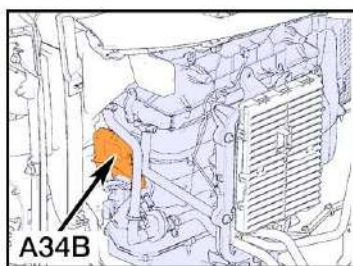
**YK** : for vehicles manufactured after **2017/03/12**

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



Direct after battery power supply.

# Life on board – Air/air independent heating



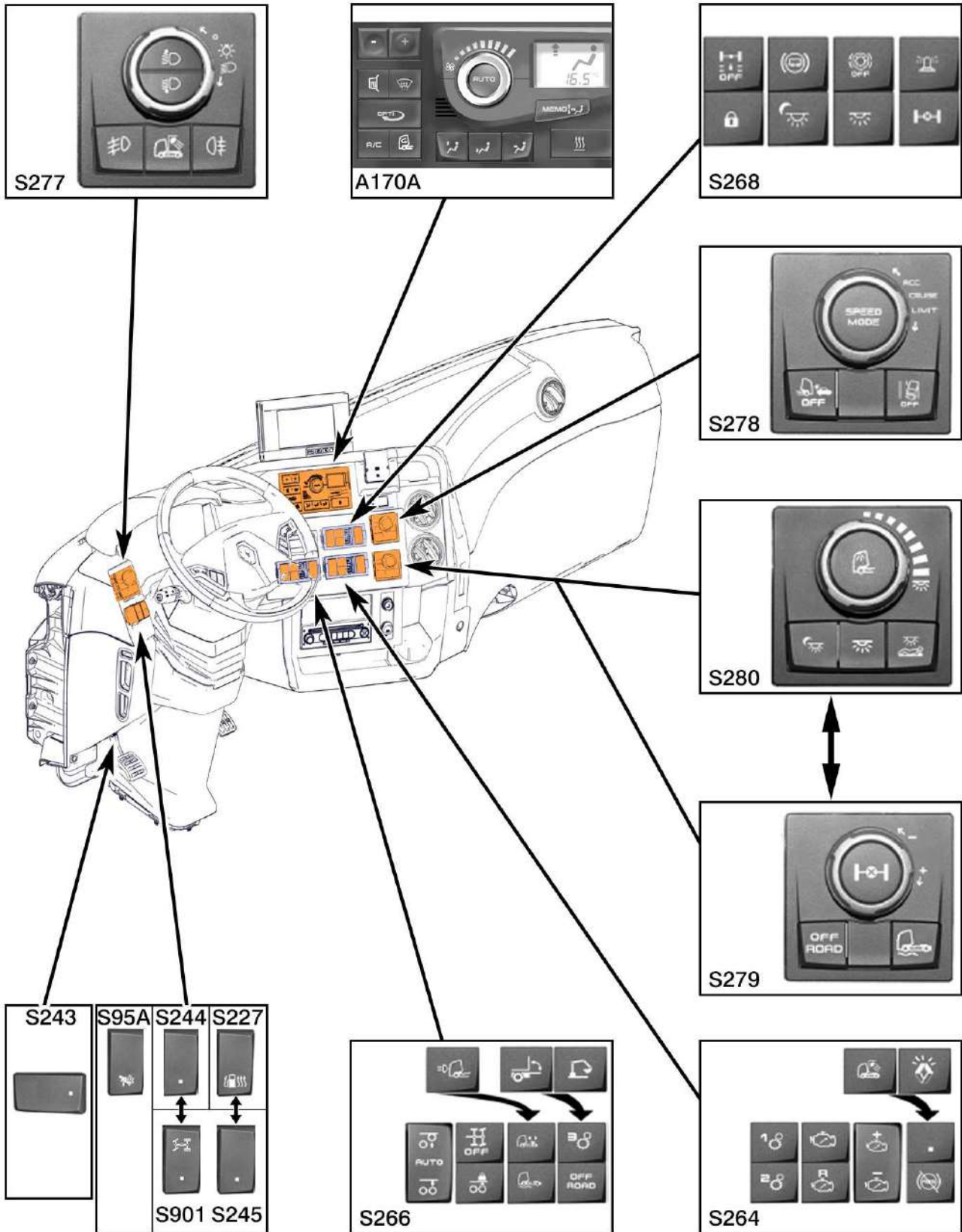
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# Life on board – Air conditioning

## Key to devices

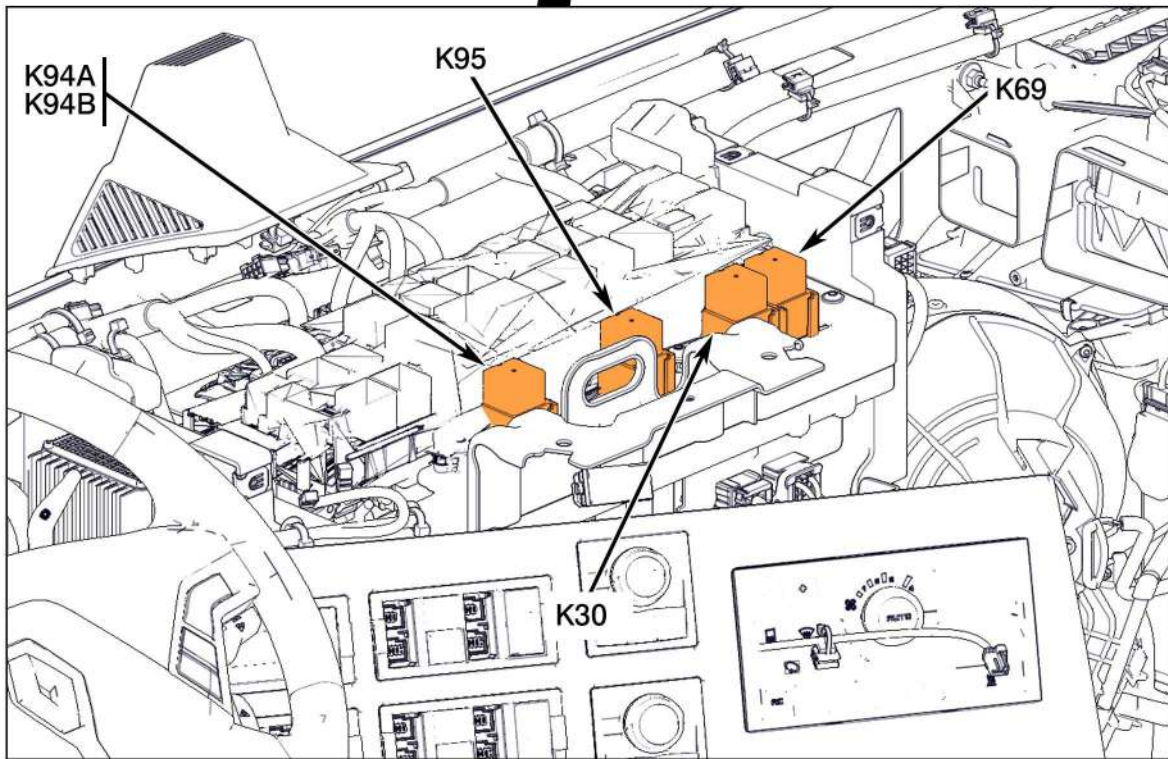
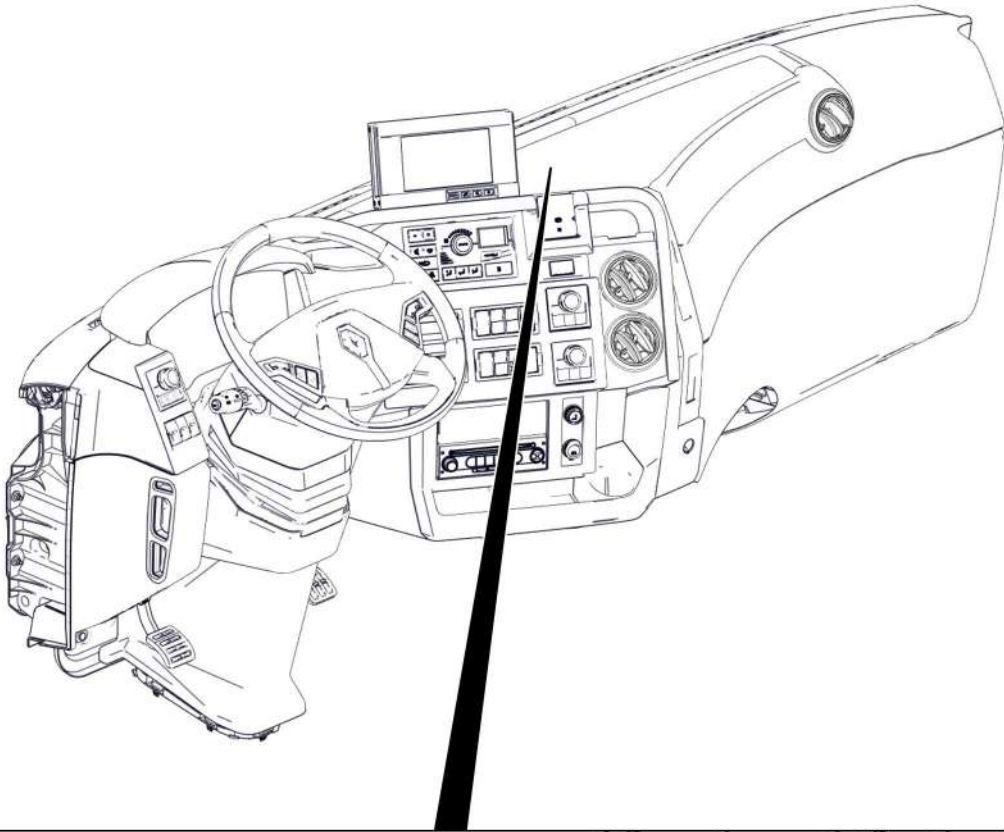
Code	Function description	Diagram page No.
<b>A34B</b>	Air conditioning management control unit	GBP
<b>A160</b>	Cab information management control unit (CIOM)	DA6/EFG/GF1
<b>A170A</b>	Cab air conditioning control panel	GBP
<b>B22</b>	External temperature sensor	GBP
<b>B236</b>	Mist on windscreen sensor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

# Layout of switches on dashboard



T3120361

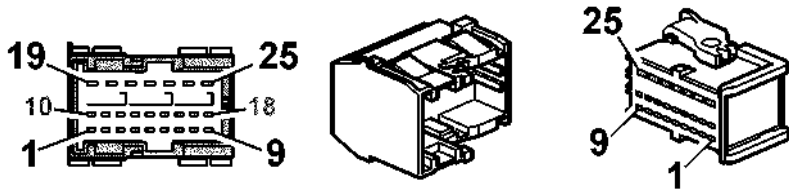
# Table of relays outside electrical distribution box



T310087



# 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

## 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