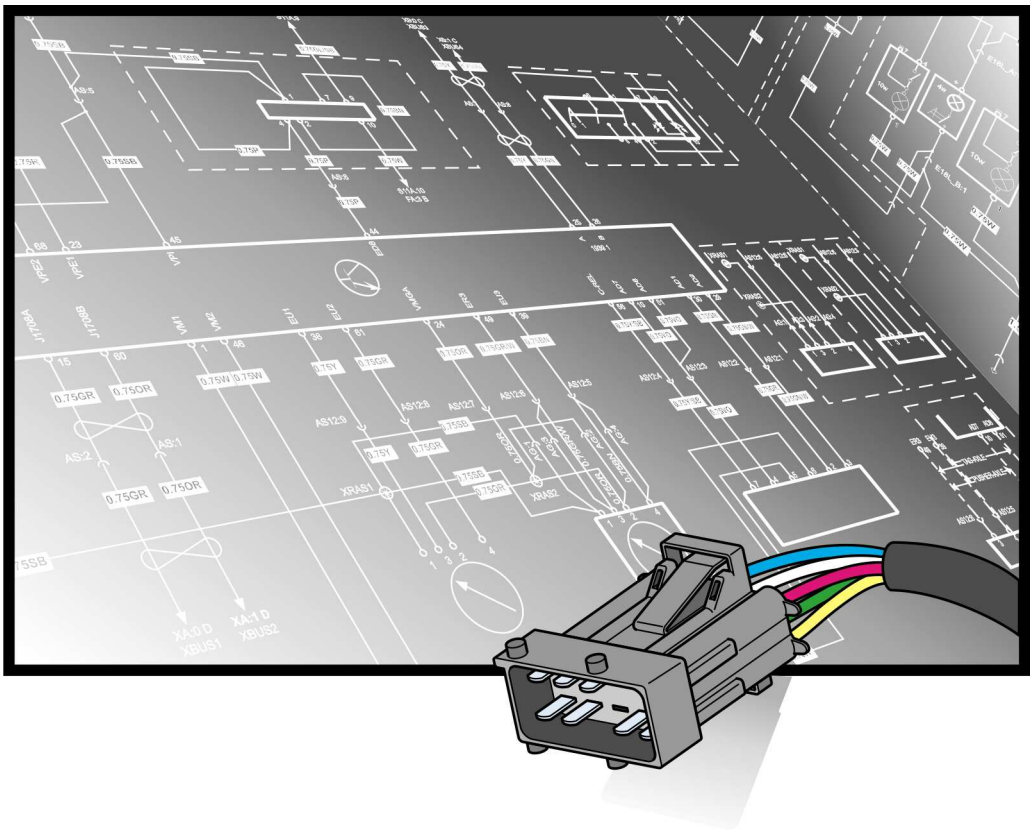
SERVICE INFORMATION

Volvo Truck Corporation

Wiring diagram

FL (3)

CHID Z103447–



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to June 2015.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is judged to have a significant bearing on this manual, an updated version of this manual will be issued to cover the changes.

The new edition of this manual will update the changes.

In service procedures where the title incorporates an operation number, this is a reference to V. S.T. (Volvo Standard Times).

Service procedures which do not include an operation number in the title are for general information and no reference is made to V.S.T.

The following levels of observations, cautions and warnings are used in this Service Documentation:

Note: Indicates a procedure, practice, or condition that must be followed in order to have the vehicle or component function in the manner intended.

Caution: Indicates an unsafe practice where damage to the product could occur.

Warning: Indicates an unsafe practice where personal injury or severe damage to the product could occur.

Danger: Indicates an unsafe practice where serious personal injury or death could occur.

Volvo Truck Corporation
Göteborg, Sweden

Note: Check always the latest information at the “Wiring diagrams-site”.

Order number: 89208694

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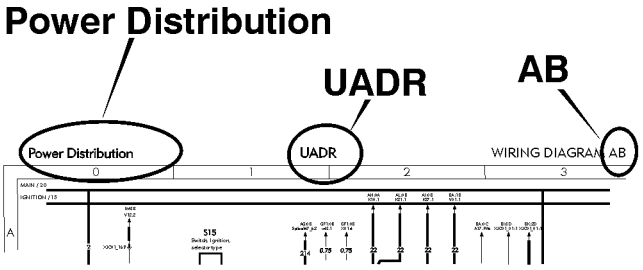
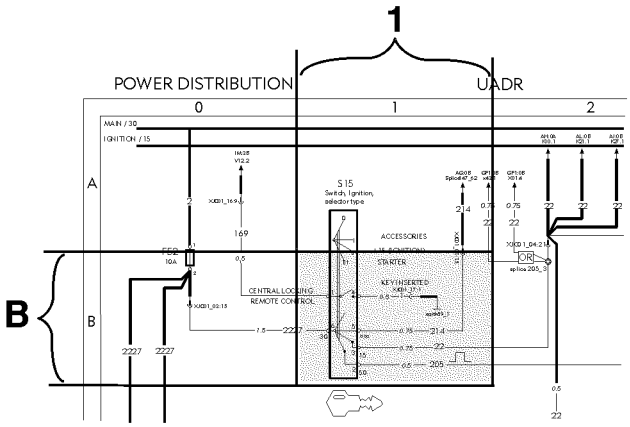
Example of wiring diagram



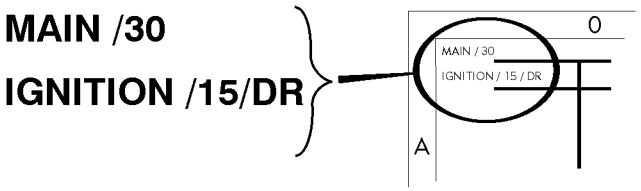
T3020162

Component wiring diagram title, variant/subtitle and symbol.



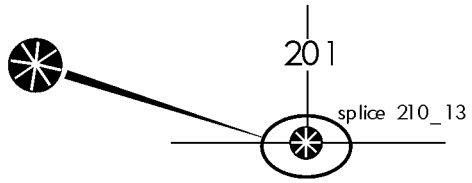
T3020163

Coordinates (B 1).



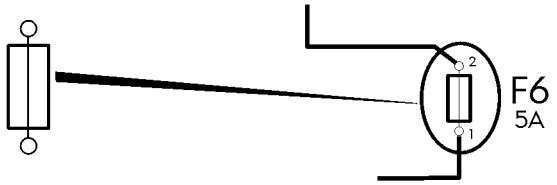
T3020164

30 Voltage battery, kl.30.
15 Voltage with starter key in drive position and start position, kl.15/kl.DR.



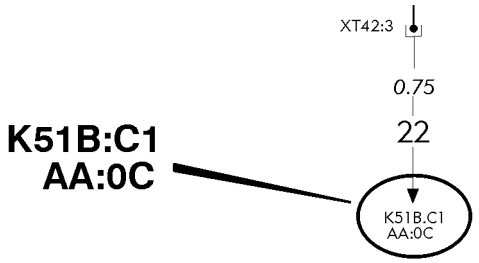
T3018668

Splice.



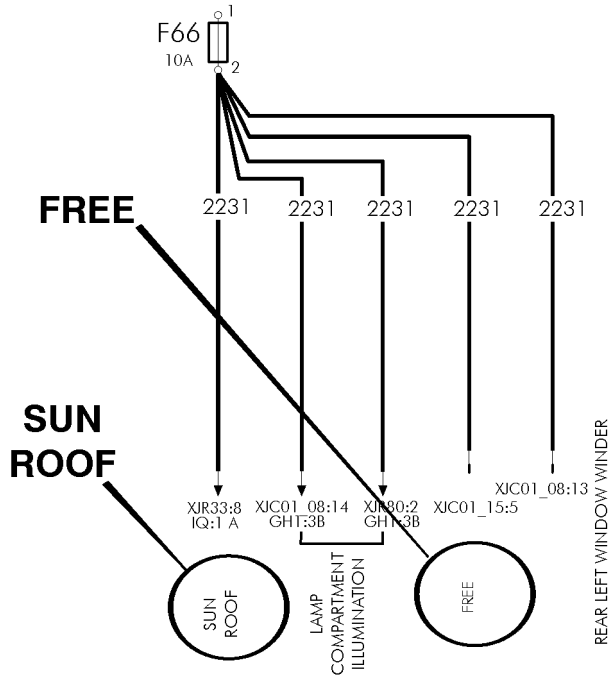
T3018669

Fuse.



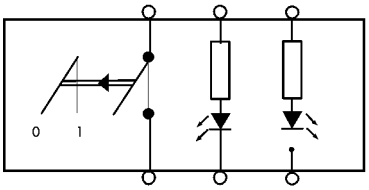
T3018670

Reference arrow, for diagram AA, coordinates 0 C, component K51B, connector C pin 1.



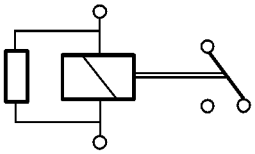
T3018671

The maximum of variants are drawn, think about that all wires and components are not standard for all markets or vehicle models.



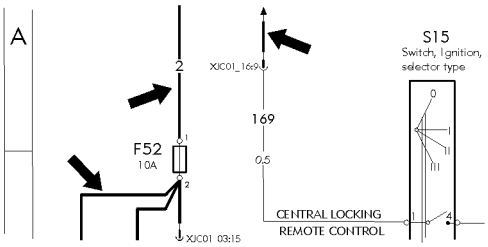
T3016009

Switch.



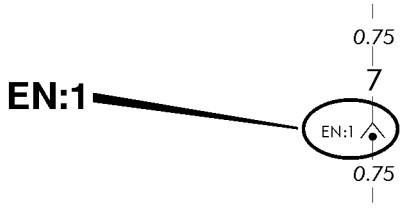
T3016010

Relay.



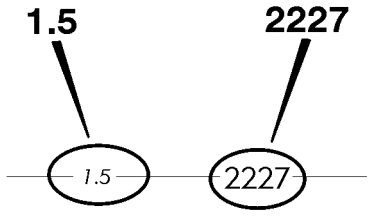
T3018674

Conductor on circuit card.



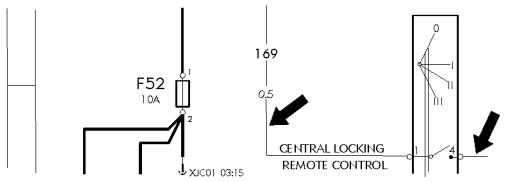
T3018675

Connector EN terminal 1.



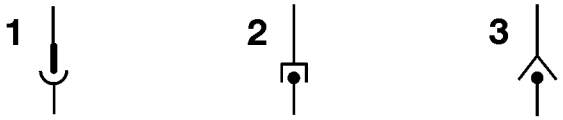
T3018676

Wire area and wire number.



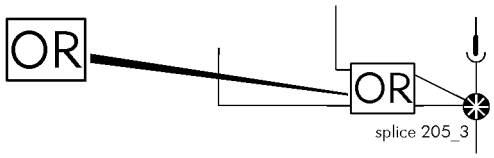
T3018677

Thin lines, wires.



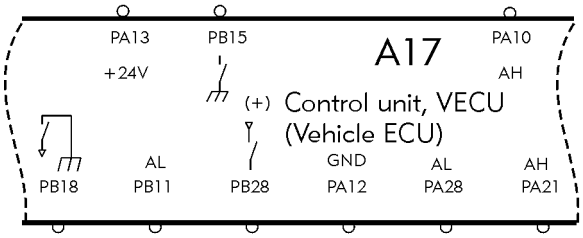
T3018689

Connector.
1 EJB connectors.
2 Pass through connector chassis-cab.
3 Others.



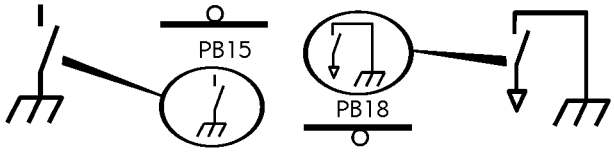
T3018680

"**OR**"It is an exclusive OR (only one possibility) between the different solutions due to the configuration of the vehicle.



T3018681

Electronic Control unit.
The inputs/outputs of ECUs are symbolized in the way described below:

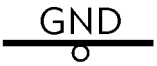


T3020030

2 alternative of digital output low (set to the ground).

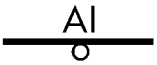
Digital output high (set to 24V, 5V...).

T3018683



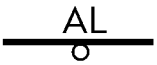
Ground of ECU.

T3018684



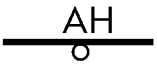
Analog input.

T3018685



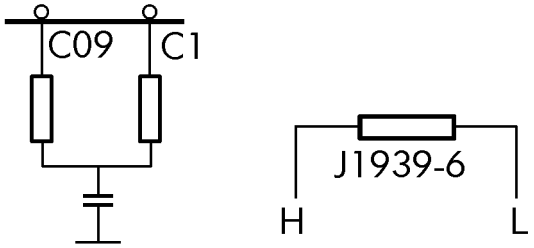
Active low.

T3018686



Active high.

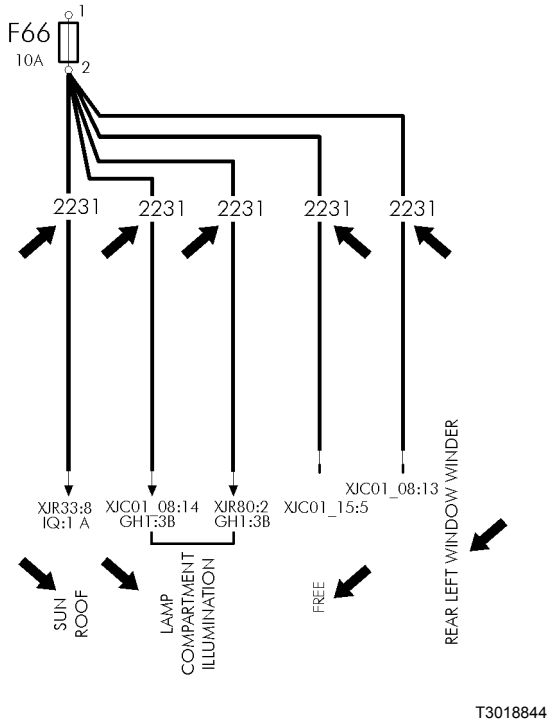
T3018687



Ending resistance of communication bus CAN (120 Ω)

T3018688

Wire number



Wire equipotential: Equipotential is a wire propriety which characterize a signal flowing a wire (same signal = same equipotential). Several wires could have the same equipotential.

The first digit of the number	Family
1	Ground and negative supply
2	Positive supply
3	Signal
4	Comfort accessories
5	Security accessories
6	Lighting
7	Instrumentation
8	Body builder
9	Free
0	Electronic/Data link

Starting switch

Switch logic diagram.

Terminal	Key in position								
	Key inserted	—	“0”	—	“I”	—	“II”	—	“III”
Key inserted									
Off									
Accessories (pos. 5)									
+15/DR									
50									

Component wiring diagram index

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AF	Accessories power supply, UADR	“ ”, page 14
AG	Accessories power supply	“ ”, page 15
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AJ	Power supply	“ ”, page 18
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AL	Main power supply	“ ”, page 20
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BA1	Vehicle ECU	“ ”, page 23
BK	Instrument cluster	“ ”, page 24
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IA	Heated seat / buzzer belt / cigar lighter	“ ”, page 69
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IF2	Heated adjustable mirror RHD	“ ”, page 71
IM	Central locking, immobiliser	“ ”, page 72
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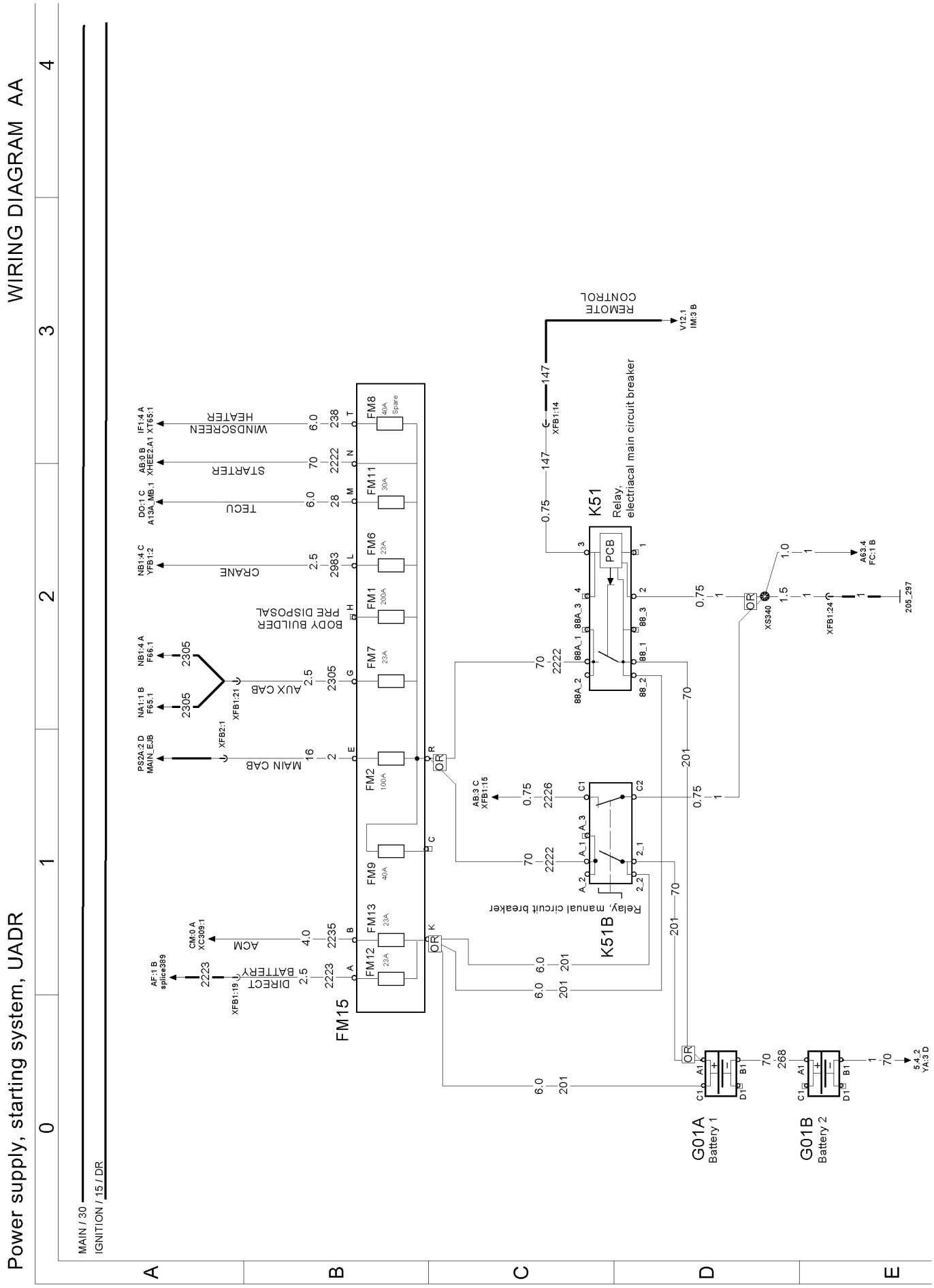
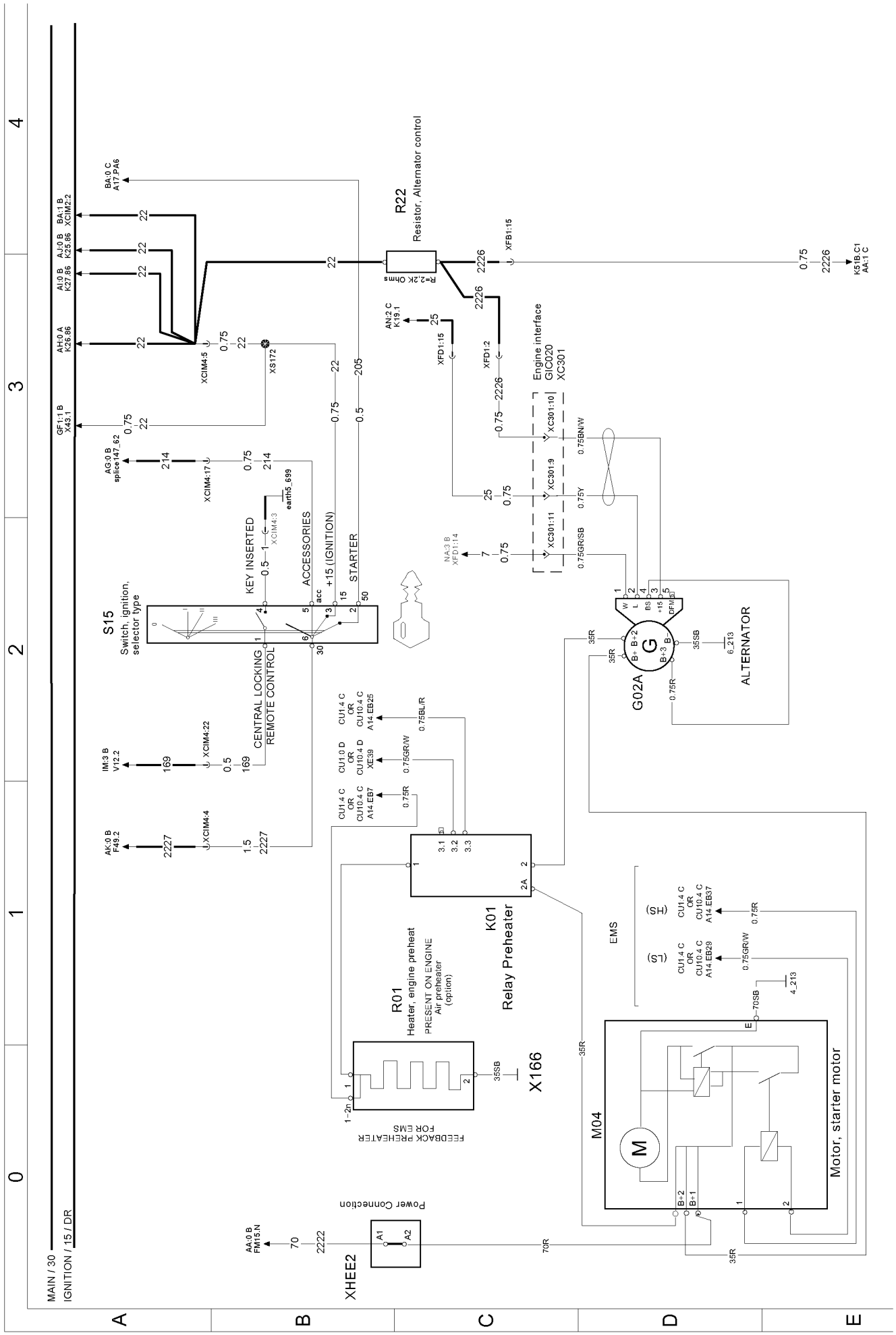
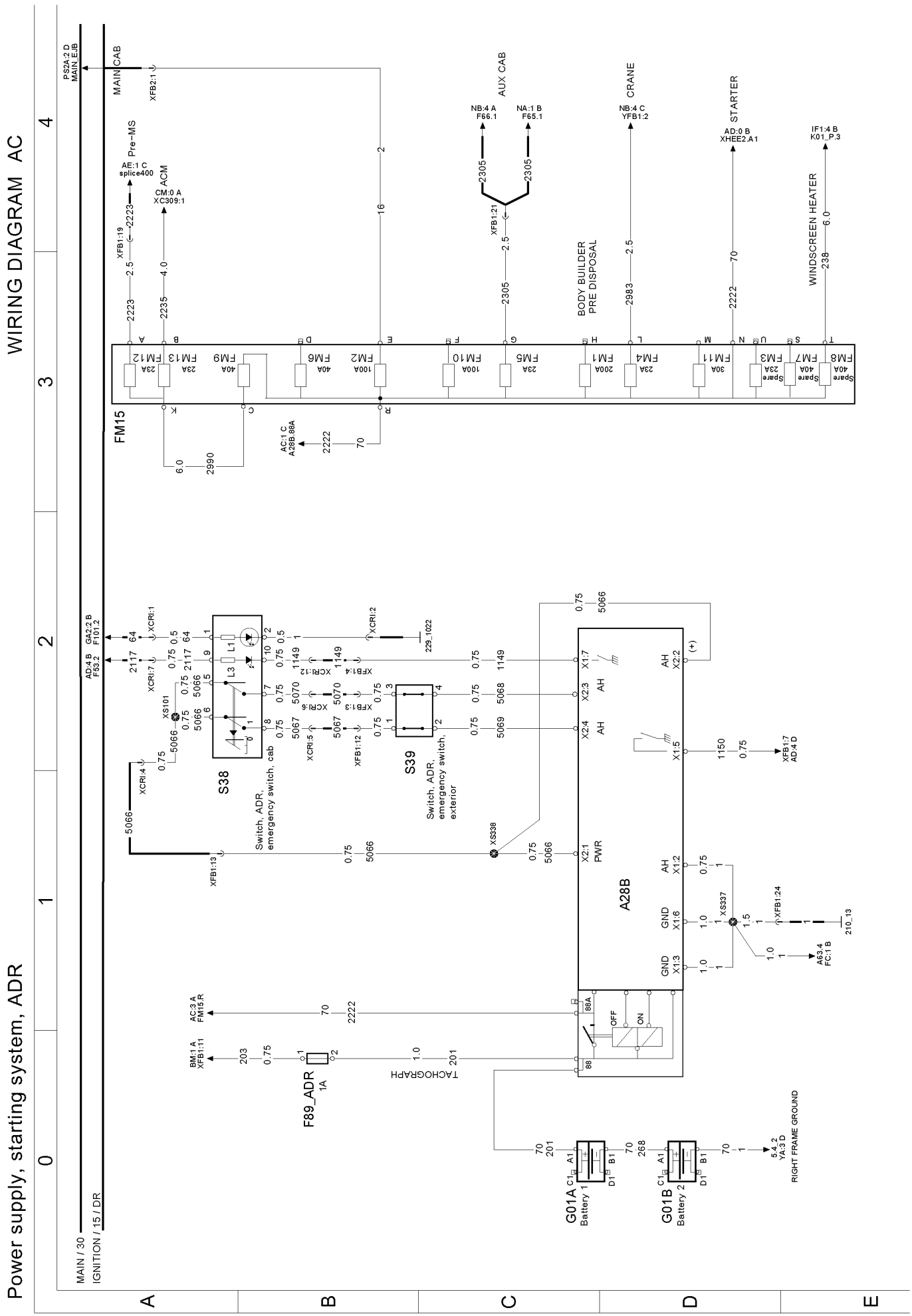
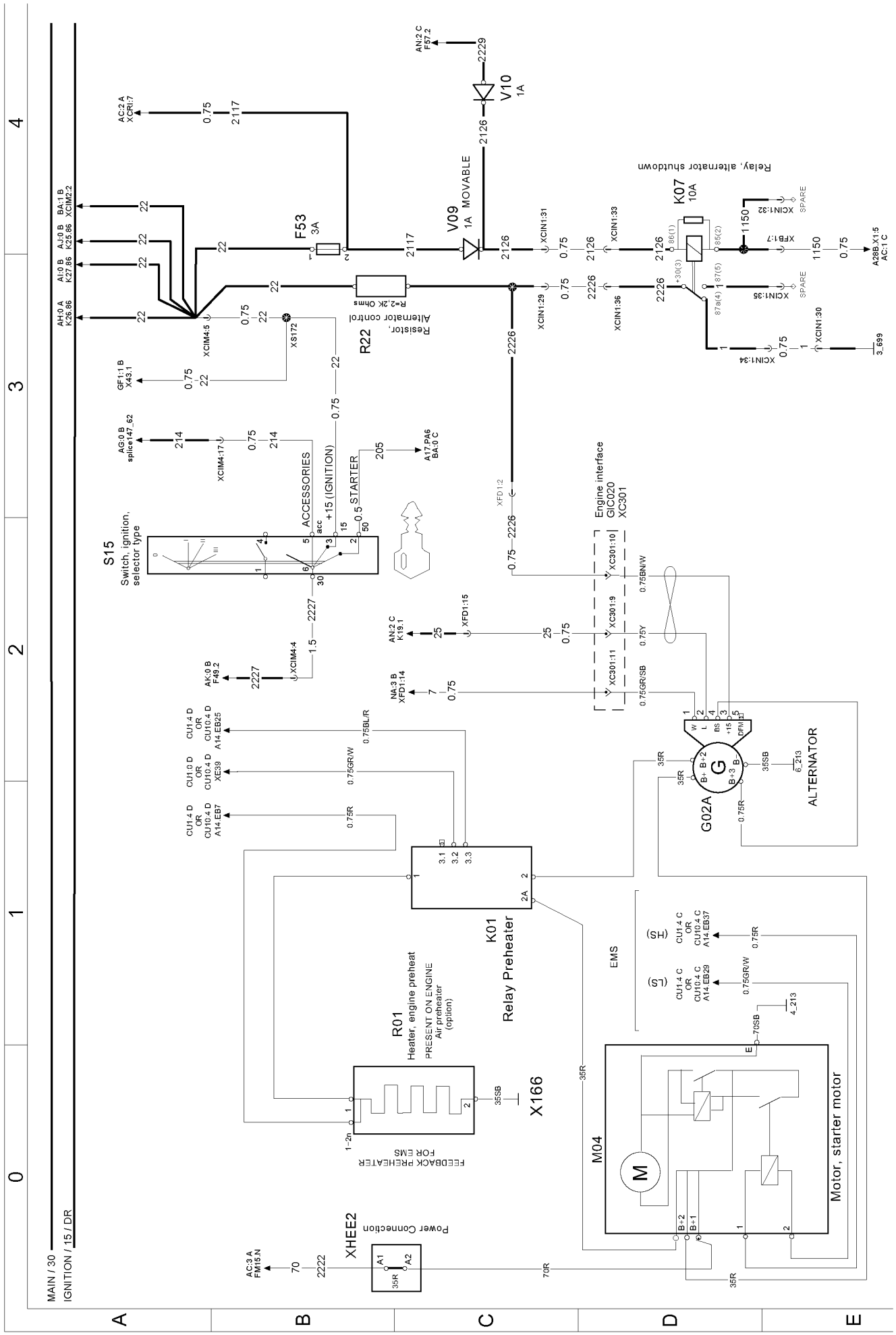
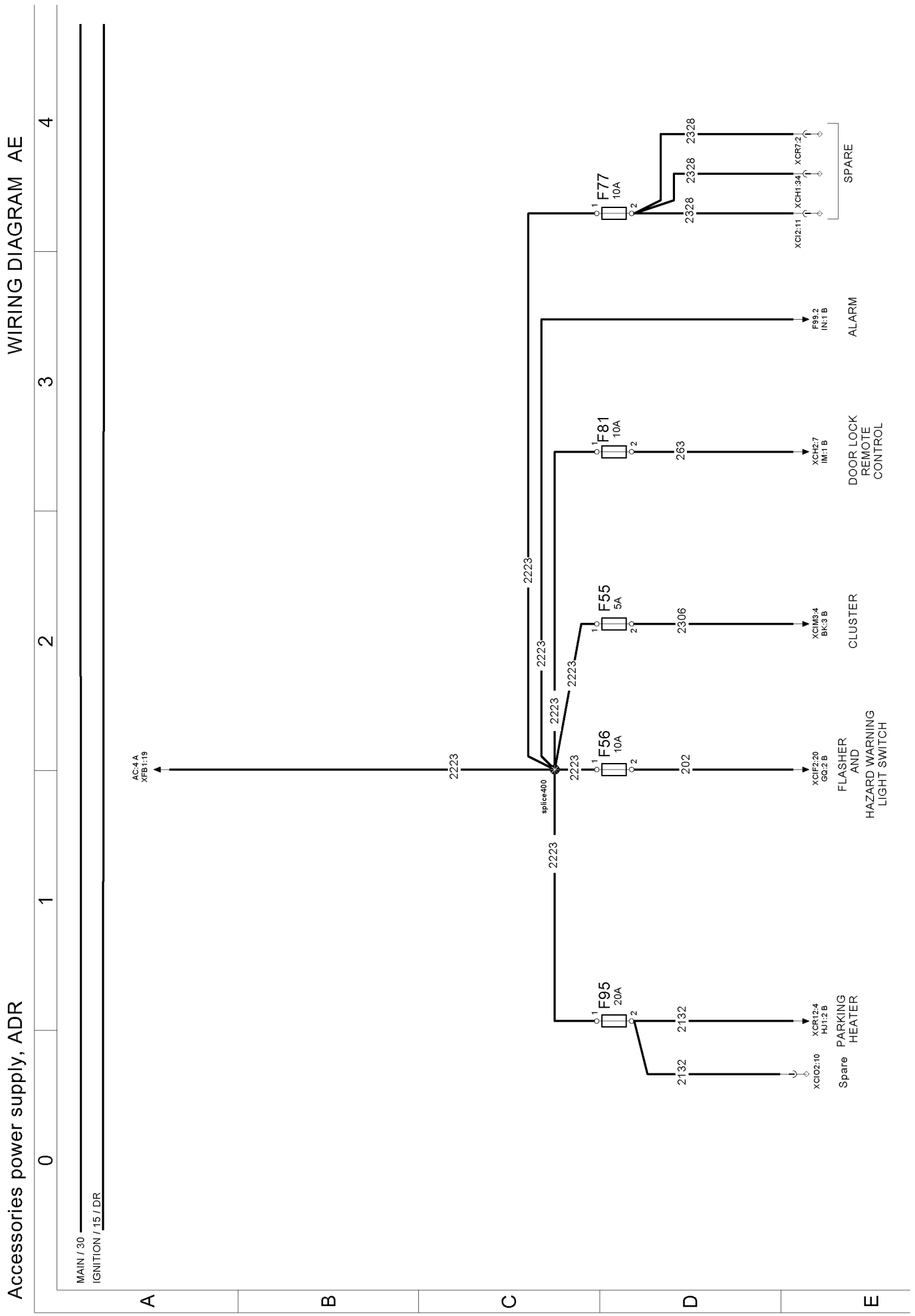
XE	BackBone2	“ ”, page 93
YA	Chassis grounding	“ ”, page 94
YB	Chassis grounding	“ ”, page 95

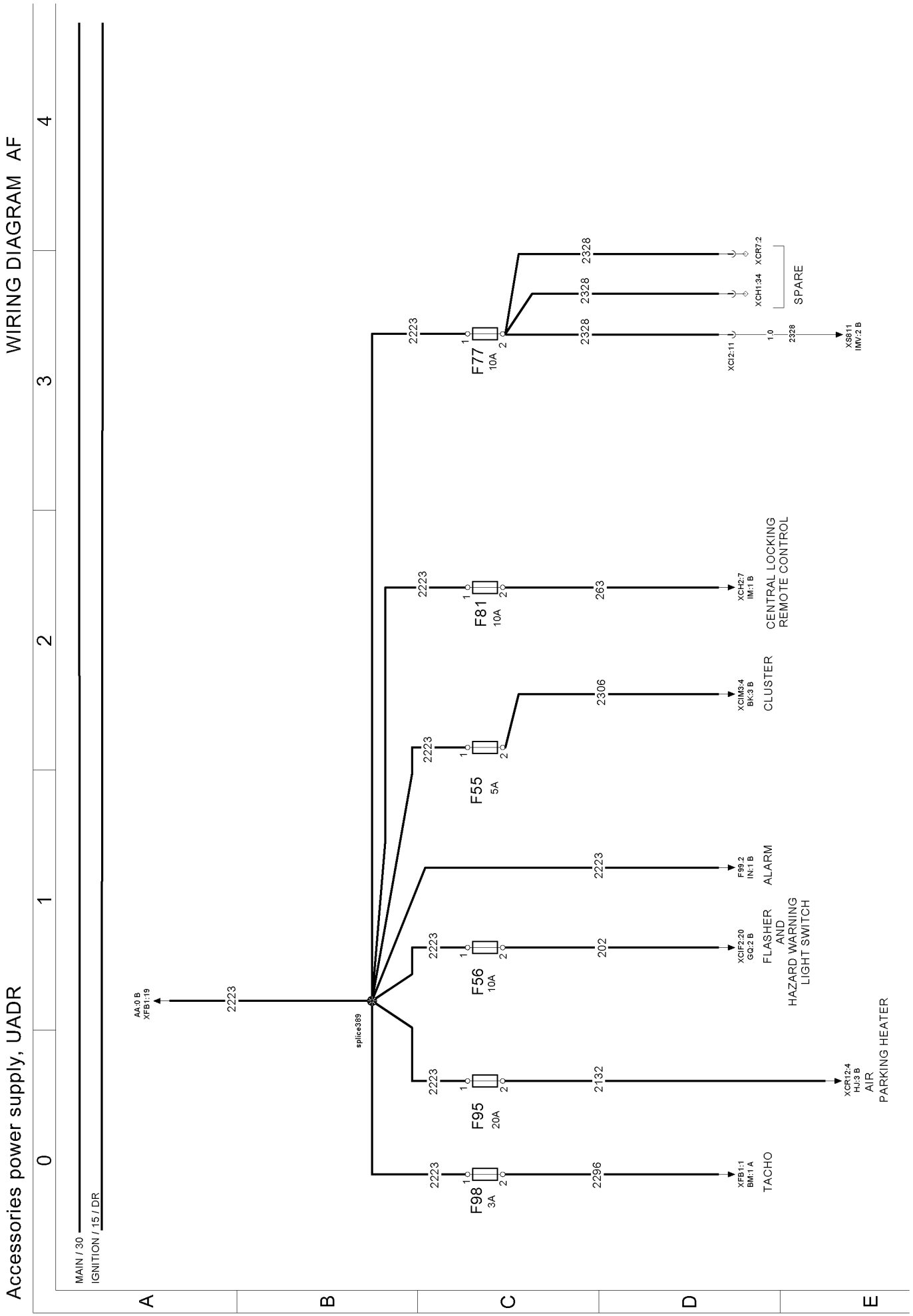

WIRING DIAGRAM AA
Power supply, starting system, UADR
MAIN / 30
IGNITION / 15 / DR
FM15
FM12
FM13
FM9
FM2
FM7
FM1
FM6
FM11
FM8
MAIN CAB
AUX CAB
BODY BUILDER PRE DISPOSAL
CRANE
TECU
STARTER
WINDSCREEN HEATER
DIRECT BATTERY
ACM
K51
Relay, electriacal main circuit breaker
K51B
Relay, manual circuit breaker
REMOTE CONTROL
G01A Battery 1
G01B Battery 2

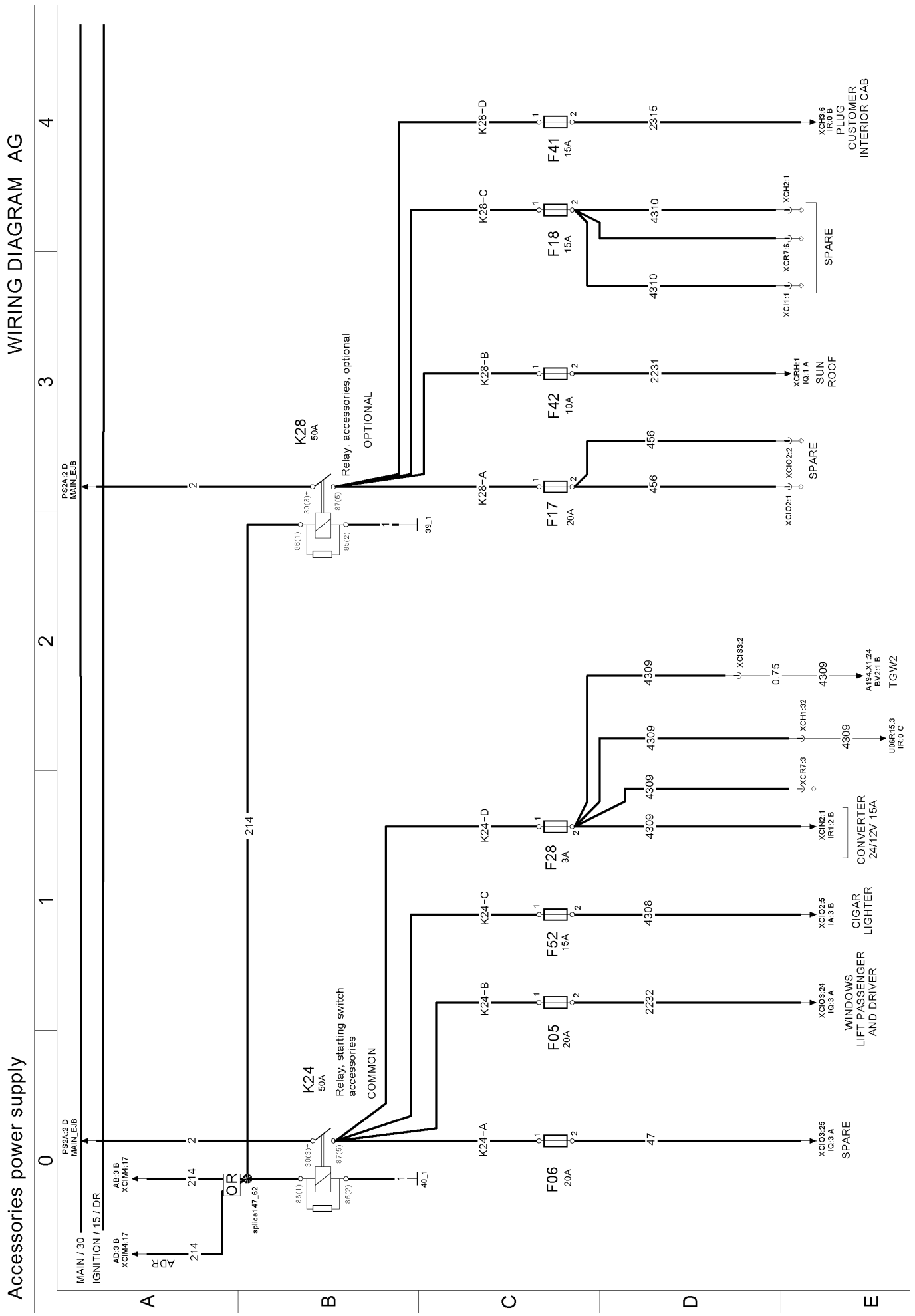

MAIN / 30
IGNITION / 15 / DR
S15
Switch, ignition, selector type
KEY INSERTED
ACCESSORIES
+15 (IGNITION)
STARTER
CENTRAL LOCKING REMOTE CONTROL
R22
Resistor, Alternator control
R=2.2K Ohms
Engine interface
GIC020
XC301
G02A
ALTERNATOR
K01
Relay Preheater
R01
Heater, engine preheat
PRESENT ON ENGINE
Air preheater
(option)
FEEDBACK PREHEATER FOR EMS
X166
EMS
(HS)
(LS)
M04
Motor, starter motor
Power Connection
XHEE2


WIRING DIAGRAM AC
Power supply, starting system, ADR
MAIN / 30
IGNITION / 15 / DR
MAIN CAB
Pre-MS
ACM
AUX CAB
CRANE
STARTER
WINDSCREEN HEATER
BODY BUILDER PRE DISPOSAL
FM15
S38
Switch, ADR, emergency switch, cab
S39
Switch, ADR, emergency switch, exterior
A28B
F89_ADR
TACHOGRAPH
G01A Battery 1
G01B Battery 2
RIGHT FRAME GROUND

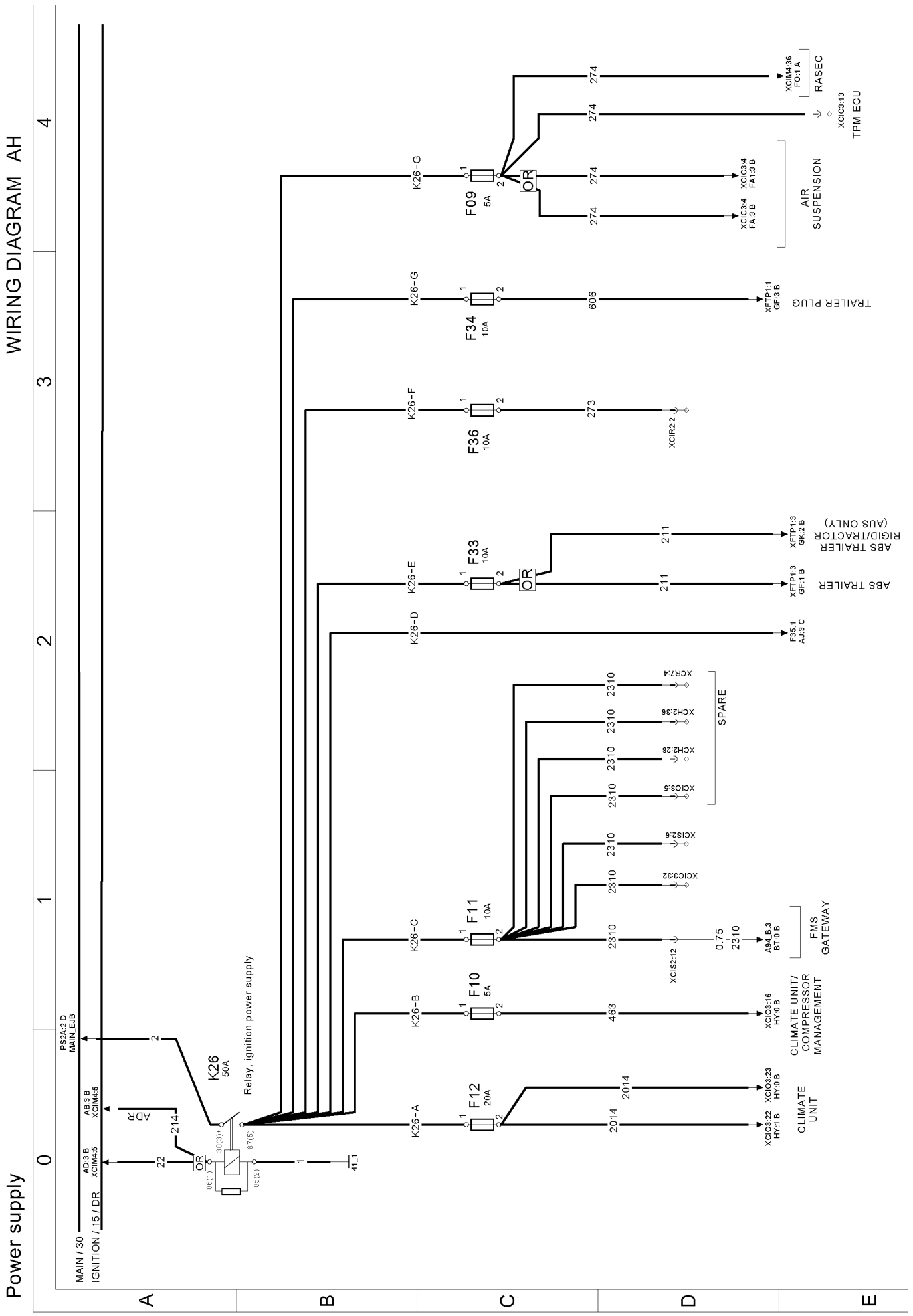

MAIN / 30
IGNITION / 15 / DR
F53
3A
V09
1A MOVABLE
V10
1A
K07
10A
Relay, alternator shutdown
R22
Resistor, Alternator control
R=2,2K Ohms
S15
Switch, ignition, selector type
ACCESSORIES
+15 (IGNITION)
STARTER
Engine interface
GIC020
XC301
G02A
ALTERNATOR
K01
Relay Preheater
R01
Heater, engine preheat
PRESENT ON ENGINE
Air preheater
(option)
FEEDBACK PREHEATER
FOR EMS
X166
EMS
(HS)
(LS)
M04
Motor, starter motor
XHEE2
Power Connection


Accessories power supply, ADR
WIRING DIAGRAM AE
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
AC:4 A
XFB1:19
2223
splice400
F95
20A
2132
2132
XCI2:10
XCR12:4
HJ1:2 B
Spare
PARKING
HEATER
F56
10A
202
XCIF2:20
GQ:2 B
FLASHER
AND
HAZARD WARNING
LIGHT SWITCH
F55
5A
2306
XCIM3:4
BK:3 B
CLUSTER
F81
10A
263
XCH2:7
IM:1 B
DOOR LOCK
REMOTE
CONTROL
F99.2
IN:1 B
ALARM
F77
10A
2328
2328
2328
XCI2:11
XCH1:34
XCR7:2
SPARE
T3080817

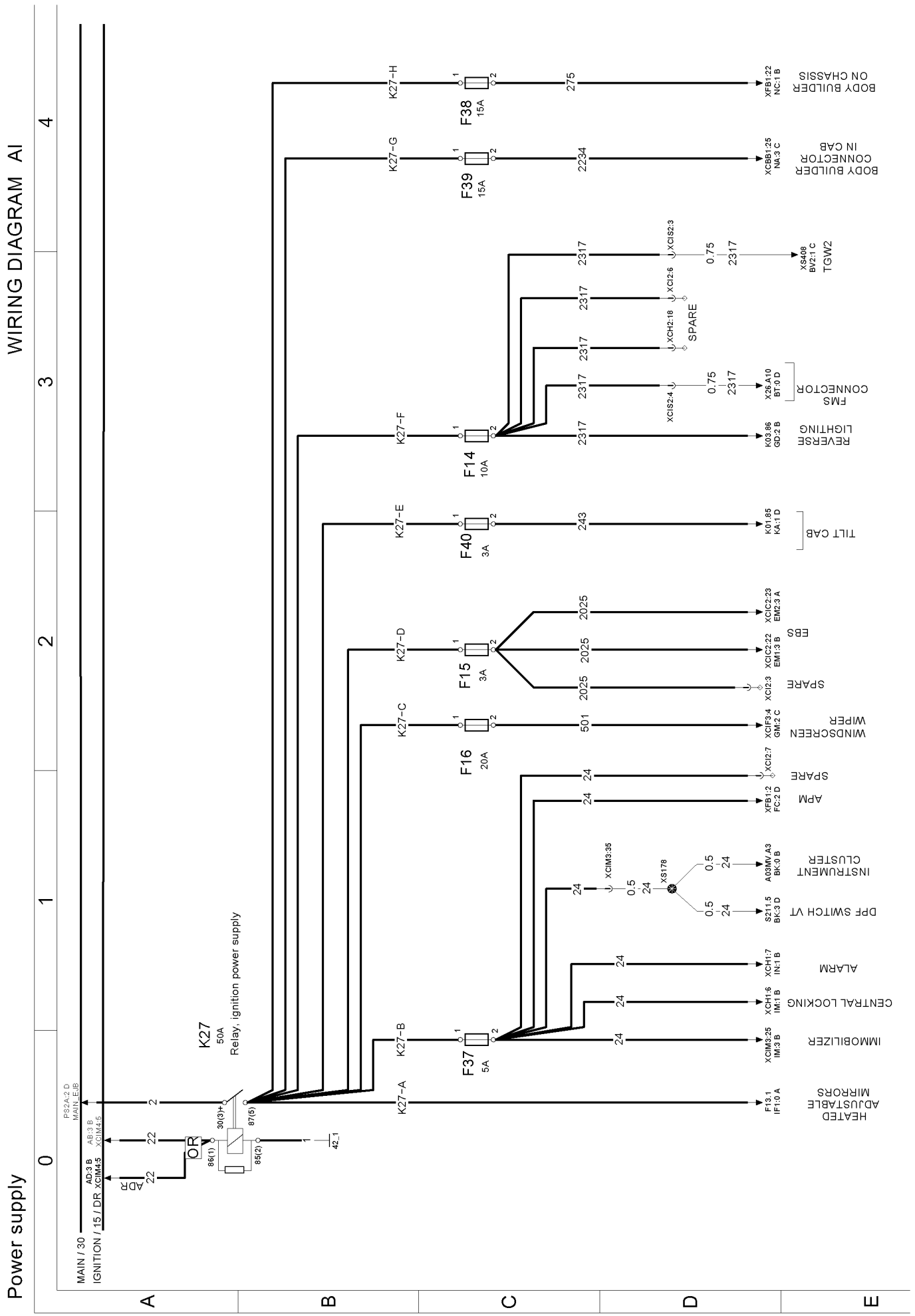

Accessories power supply, UADR
WIRING DIAGRAM AF
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
AA:0 B
XFB1:19
2223
splice389
F98
3A
F95
20A
F56
10A
F55
5A
F81
10A
F77
10A
2296
2132
202
2223
2306
263
2328
XFB1:1
BM:1 A
TACHO
XCR12:4
HJ:3 B
AIR
PARKING HEATER
XCIF2:20
GQ:2 B
FLASHER
AND
HAZARD WARNING
LIGHT SWITCH
F99:2
IN:1 B
ALARM
XCIM3:4
BK:3 B
CLUSTER
XCH2:7
IM:1 B
CENTRAL LOCKING
REMOTE CONTROL
XCI2:11
XCH1:34
XCR7:2
SPARE
1.0
XS811
IMV:2 B
T3089921


Accessories power supply
WIRING DIAGRAM AG
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D
MAIN_E:B
AB:3 B
XCIM4:17
AD:3 B
XCIM4:17
ADR
214
OR
splice147_62
K24
50A
Relay, starting switch
accessories
COMMON
K28
50A
Relay, accessories, optional
OPTIONAL
86(1)
30(3)+
87(5)
85(2)
40_1
39_1
K24-A
K24-B
K24-C
K24-D
K28-A
K28-B
K28-C
K28-D
F06
20A
F05
20A
F52
15A
F28
3A
F17
20A
F42
10A
F18
15A
F41
15A
47
2232
4308
4309
456
2231
4310
2315
XCIO3:25
IQ:3 A
SPARE
XCIO3:24
IQ:3 A
WINDOWS
LIFT PASSENGER
AND DRIVER
XCIO2:5
IA:3 B
CIGAR
LIGHTER
XCIN2:1
IR1:2 B
XCR7:3
XCH1:32
XCIS3:2
0.75
A194:X1:24
BV2:1 B
TGW2
U06R15:3
IR:0 C
CONVERTER
24/12V 15A
XCIO2:1
XCIO2:2
SPARE
XCRH:1
IQ:1 A
SUN
ROOF
XCI1:1
XCR7:6
XCH2:1
SPARE
XCH3:6
IR:0 B
PLUG
CUSTOMER
INTERIOR CAB
0
1
2
3
4
A
B
C
D
E

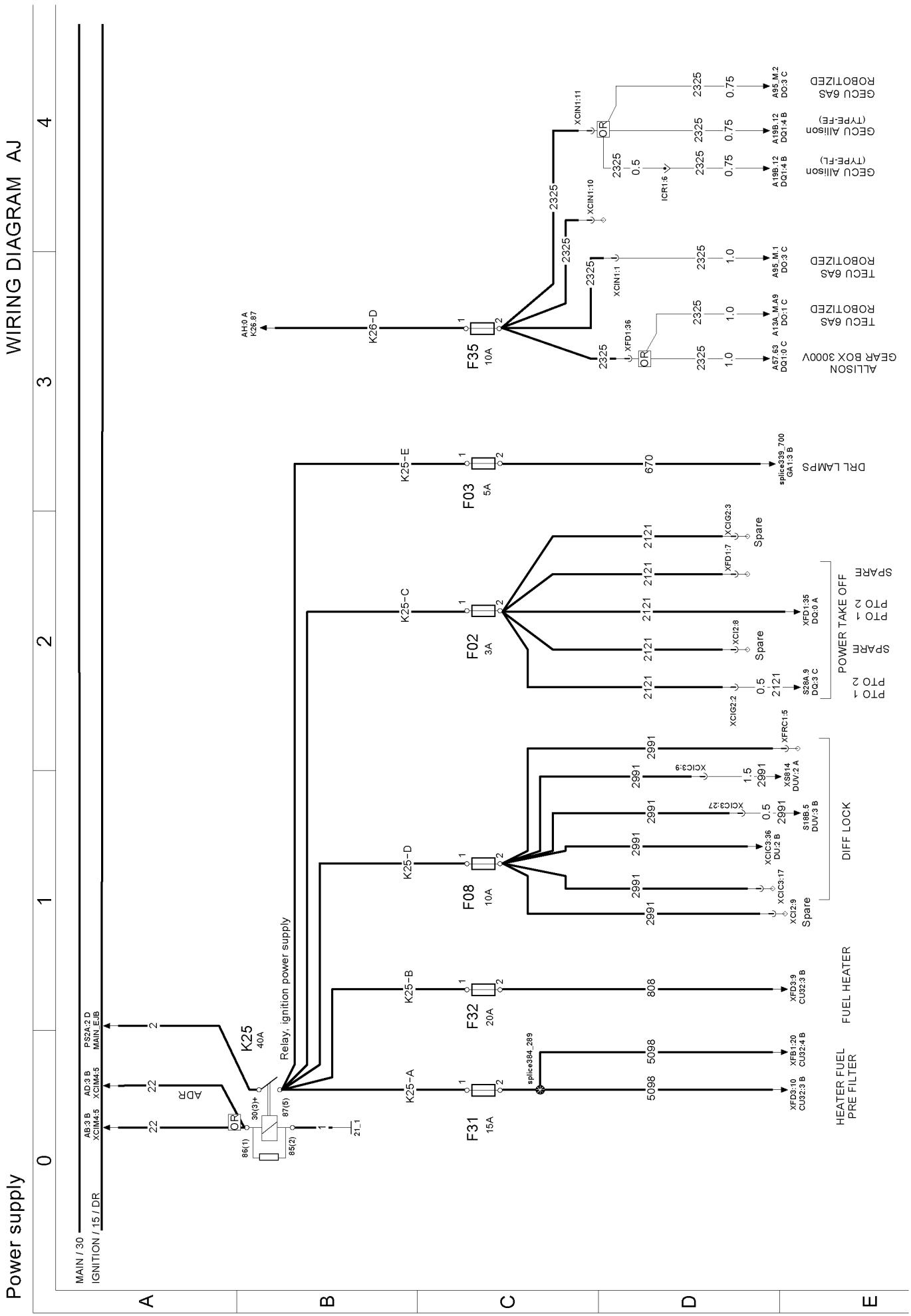
T3093203


WIRING DIAGRAM AH
Power supply
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D
MAIN_EIB
AB:3 B
XCIM4:5
AD:3 B
XCIM4:5
ADR
214
22
2
1
41_1
K26
50A
Relay, ignition power supply
86(1)
85(2)
30(3)+
87(5)
OR
K26-A
K26-B
K26-C
K26-D
K26-E
K26-F
K26-G
F12
20A
F10
5A
F11
10A
F33
10A
F36
10A
F34
10A
F09
5A
2014
463
2310
0.75
XCIS2:12
XCIC3:32
XCIS2:6
XCIO3:5
XCH2:26
XCH2:36
XCR7:4
SPARE
XCIO3:22
HY:1 B
XCIO3:23
HY:0 B
CLIMATE UNIT
XCIO3:16
HY:0 B
CLIMATE UNIT/
COMPRESSOR
MANAGEMENT
A94:B.3
BT:0 B
FMS
GATEWAY
F35.1
AJ:3 C
XFTP1:3
GF:1 B
ABS TRAILER
XFTP1:3
GK:2 B
ABS TRAILER
RIGID/TRACTOR
(AUS ONLY)
211
XCIR2:2
273
XFTP1:1
GF:3 B
TRAILER PLUG
606
XCIC3:4
FA:3 B
XCIC3:4
FA:1:3 B
AIR
SUSPENSION
274
XCIM4:36
FO:1 A
RASEC
XCIC3:13
TPM ECU
A
B
C
D
E
0
1
2
3
4

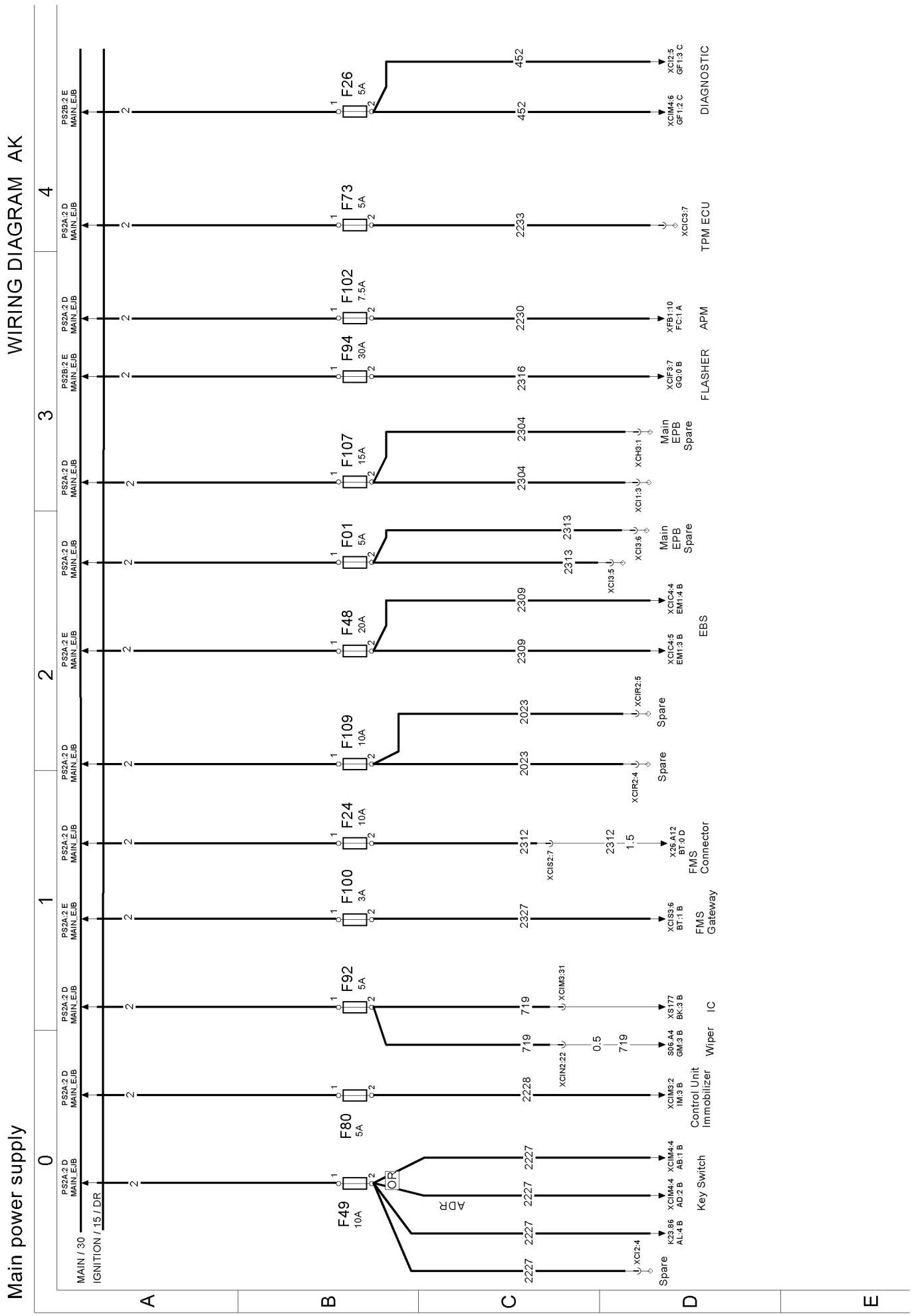
T3086176


WIRING DIAGRAM AI
Power supply
MAIN / 30
IGNITION / 15 / DR
K27
50A
Relay, ignition power supply
F37
5A
F16
20A
F15
3A
F40
3A
F14
10A
F39
15A
F38
15A
HEATED ADJUSTABLE MIRRORS
IMMOBILIZER
CENTRAL LOCKING
ALARM
DPF SWITCH VT
INSTRUMENT CLUSTER
APM
SPARE
WINDSCREEN WIPER
EBS
TILT CAB
REVERSE LIGHTING
FMS CONNECTOR
TGW2
BODY BUILDER CONNECTOR IN CAB
BODY BUILDER ON CHASSIS

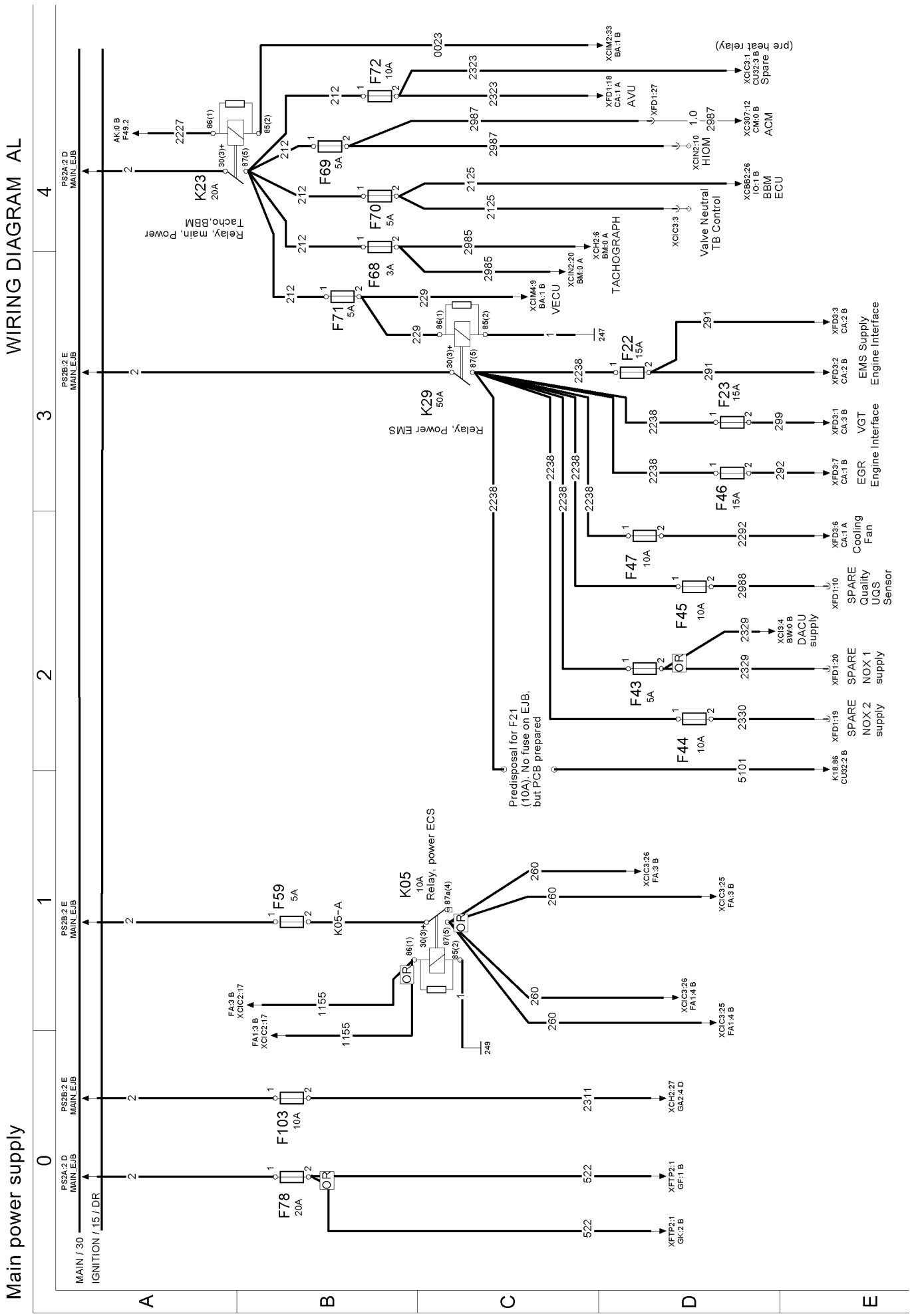
T3093221


WIRING DIAGRAM AJ
Power supply
MAIN / 30
IGNITION / 15 / DR
K25
40A
Relay, ignition power supply
ADR
F31
15A
F32
20A
F08
10A
F02
3A
F03
5A
F35
10A
HEATER FUEL PRE FILTER
FUEL HEATER
DIFF LOCK
POWER TAKE OFF
SPARE
PTO 1
PTO 2
DRL LAMPS
ALLISON GEAR BOX 3000V
TECU 6AS ROBOTIZED
GECU Allison (TYPE-FL)
GECU Allison (TYPE-FE)
GECU 6AS ROBOTIZED
Spare

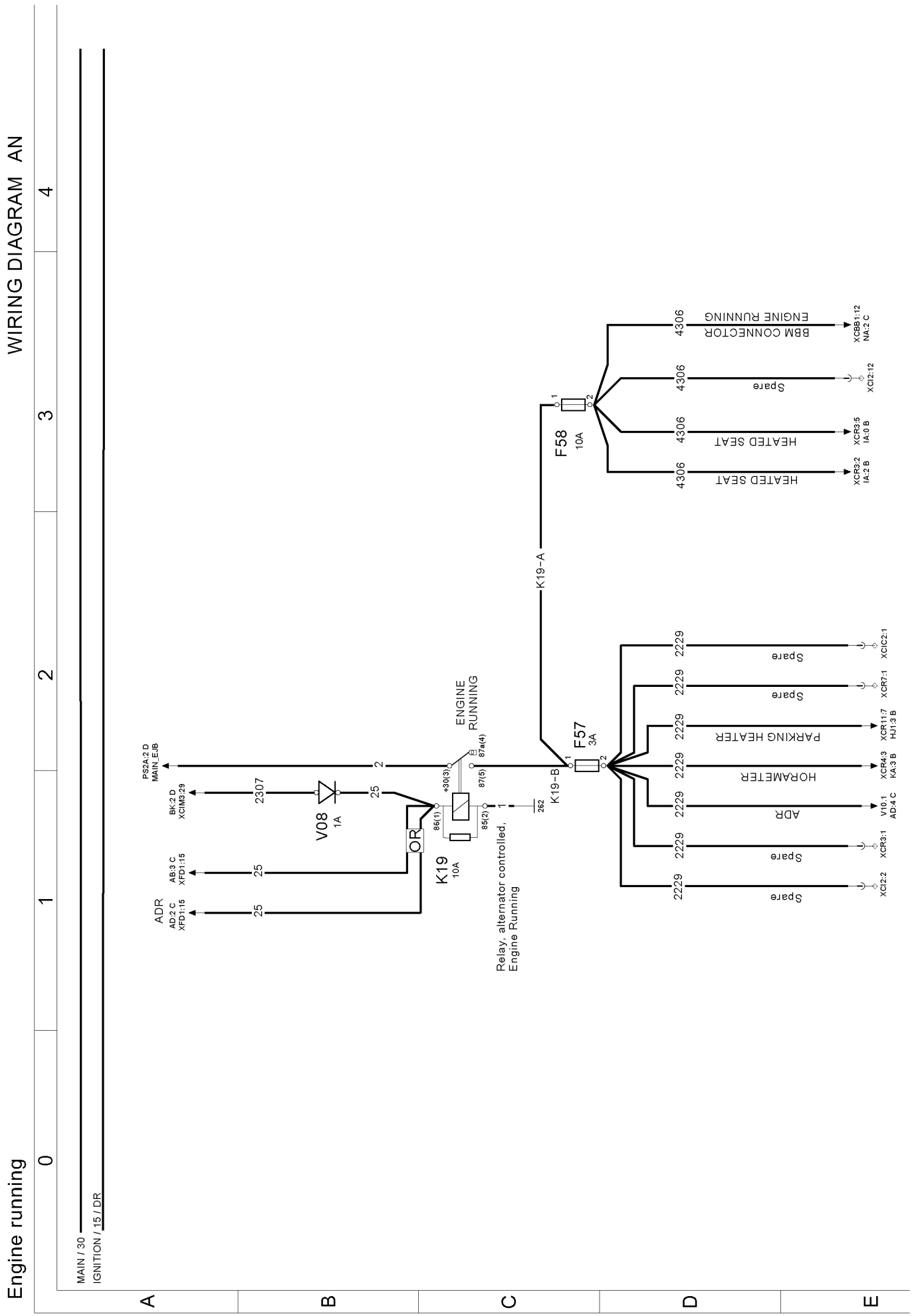
T3097253


WIRING DIAGRAM AK
Main power supply
MAIN / 30
IGNITION / 15 / DR
F49 10A
F80 5A
F92 5A
F100 3A
F24 10A
F109 10A
F48 20A
F01 5A
F107 15A
F94 30A
F102 7.5A
F73 5A
F26 5A
Key Switch
Control Unit Immobilizer
Wiper IC
FMS Gateway
FMS Connector
Spare
EBS
Main EPB Spare
FLASHER
APM
TPM ECU
DIAGNOSTIC

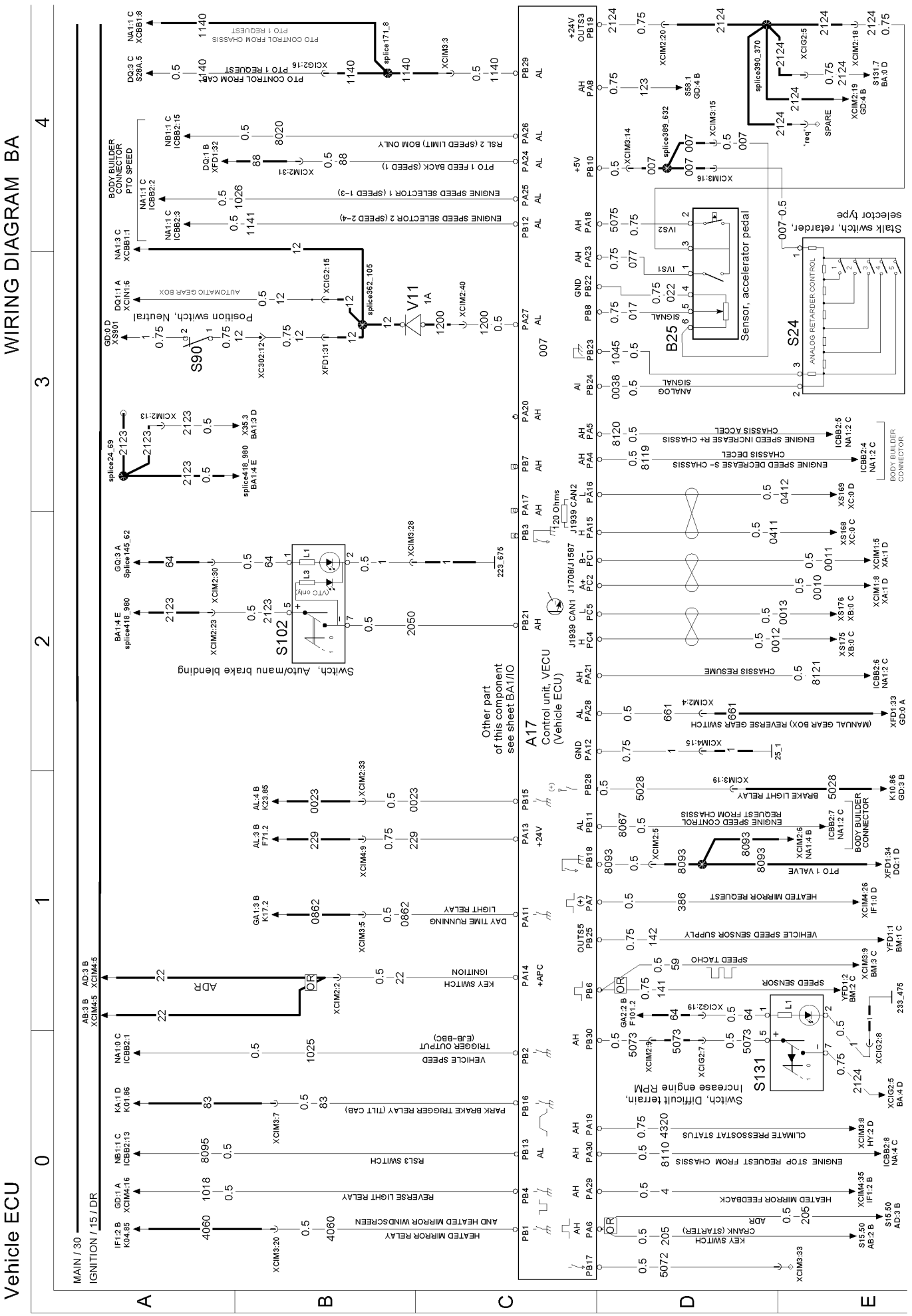
T3084174


WIRING DIAGRAM AL
Main power supply
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D MAIN_EJB
PS2B:2 E MAIN_EJB
F78 20A
F103 10A
F59 5A
K05 10A Relay, power ECS
K05-A
K23 20A Relay, main, Power Tacho,BBM
K29 50A Relay, Power EMS
F71 5A
F68 3A
F70 5A
F69 5A
F72 10A
F22 15A
F23 15A
F46 15A
F47 10A
F45 10A
F43 5A
F44 10A
Predisposal for F21 (10A). No fuse on EJB, but PCB prepared
VECU
TACHOGRAPH
Valve Neutral TB Control
HIOM
AVU
ACM
BBM ECU
Spare
(pre heat relay)
EMS Supply Engine Interface
VGT Engine Interface
EGR Engine Interface
Cooling Fan
SPARE Quality UQS Sensor
DACU supply
SPARE NOX 1 supply
SPARE NOX 2 supply

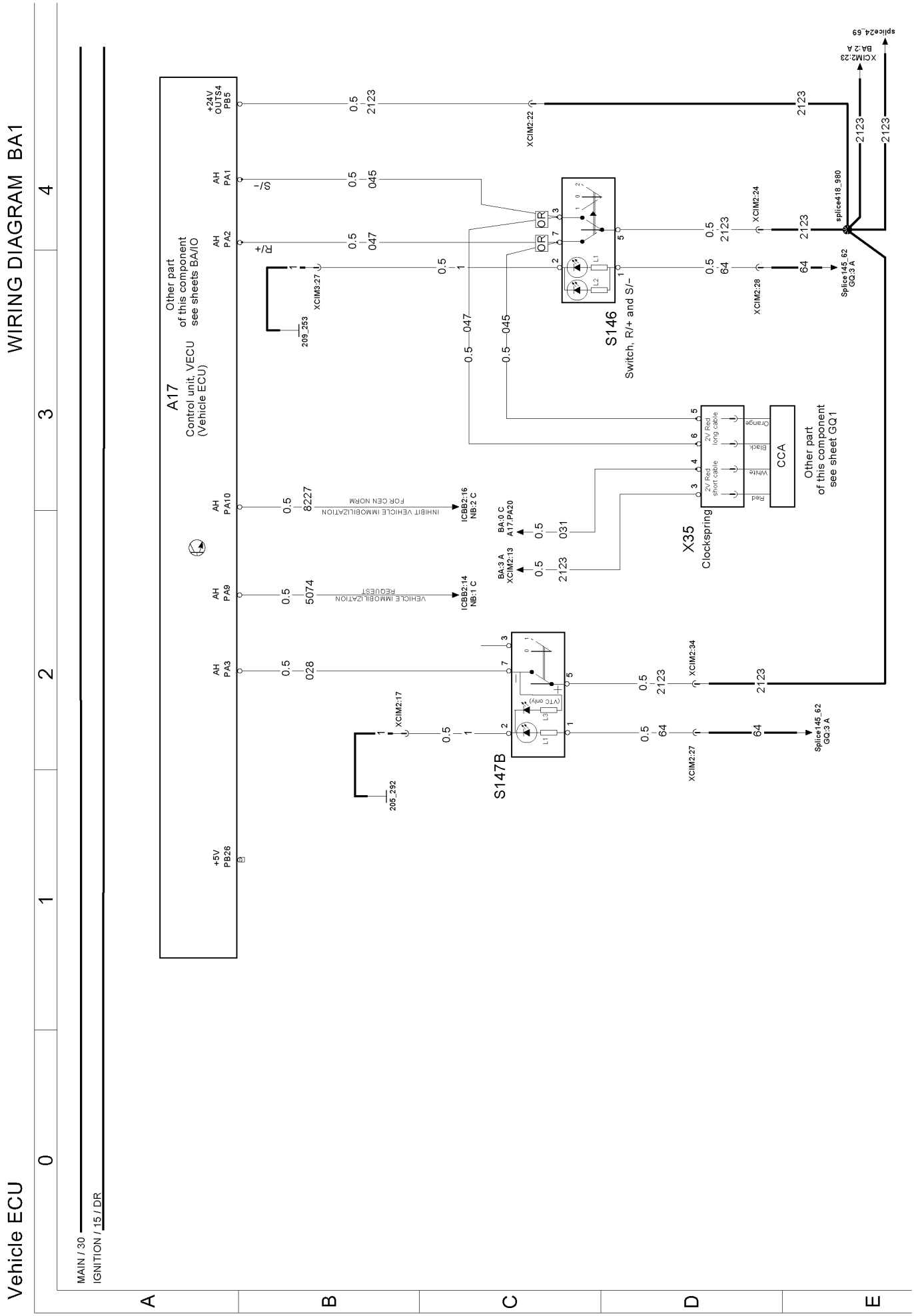
T3098622


WIRING DIAGRAM AN
Engine running
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
ADR
AD:2 C
XFD1:15
25
AB:3 C
XFD1:15
25
BK:2 D
XCIM3:29
2307
PS2A:2 D
MAIN_E.IB
2
V08
1A
25
OR
K19
10A
86(1)
85(2)
+30(3)
87(5)
87a(4)
ENGINE
RUNNING
1
262
Relay, alternator controlled,
Engine Running
K19-B
K19-A
F57
3A
F58
10A
2229
Spare
XCI2:2
2229
Spare
XCR3:1
2229
ADR
V10.1
AD:4 C
2229
HORAMETER
XCR4:3
KA:3 B
2229
PARKING HEATER
XCR11:7
HJ1:3 B
2229
Spare
XCR7:1
2229
Spare
XCIC2:1
4306
HEATED SEAT
XCR3:2
IA:2 B
4306
HEATED SEAT
XCR3:5
IA:0 B
4306
Spare
XCI2:12
4306
BBM CONNECTOR
ENGINE RUNNING
XCBB1:12
NA:2 C

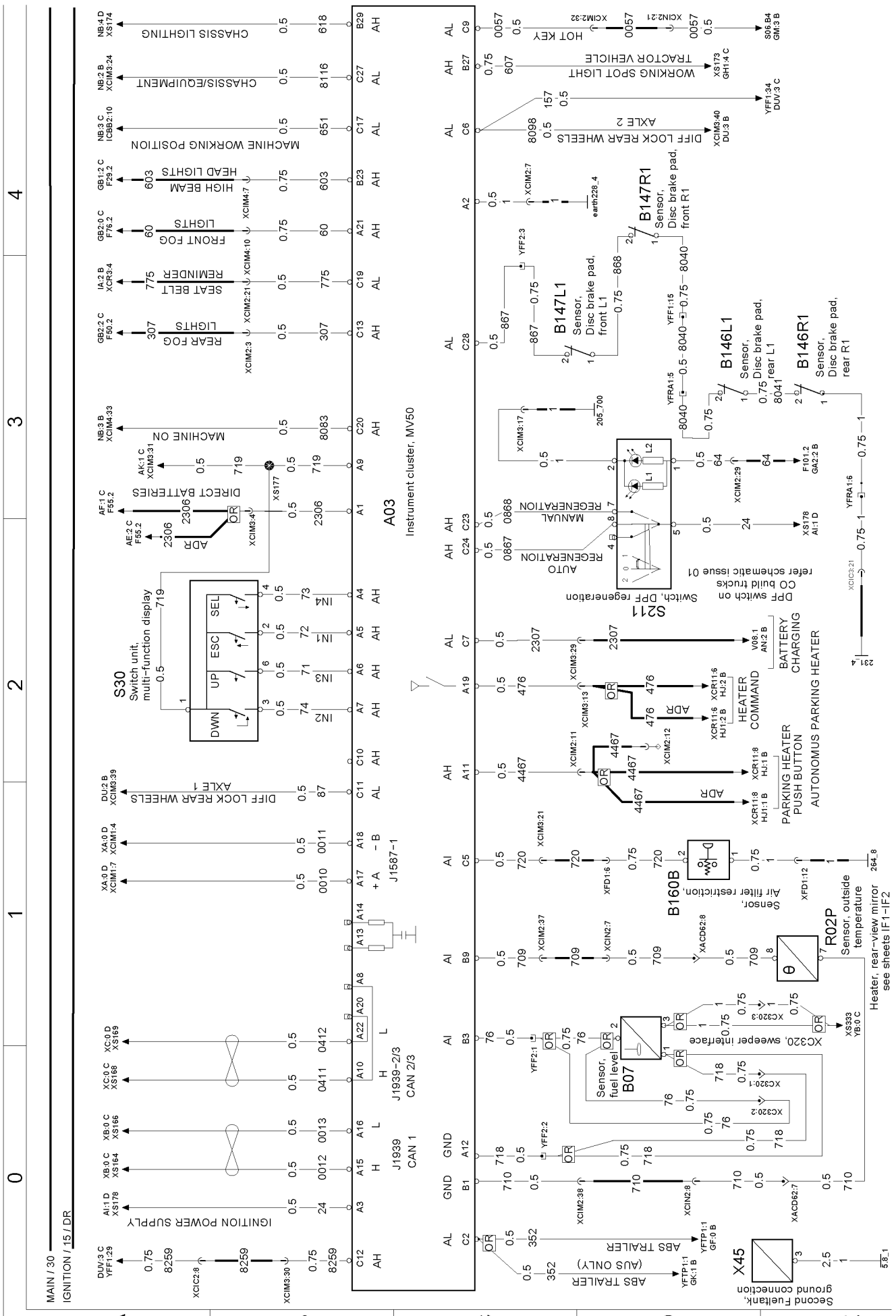
T3080825

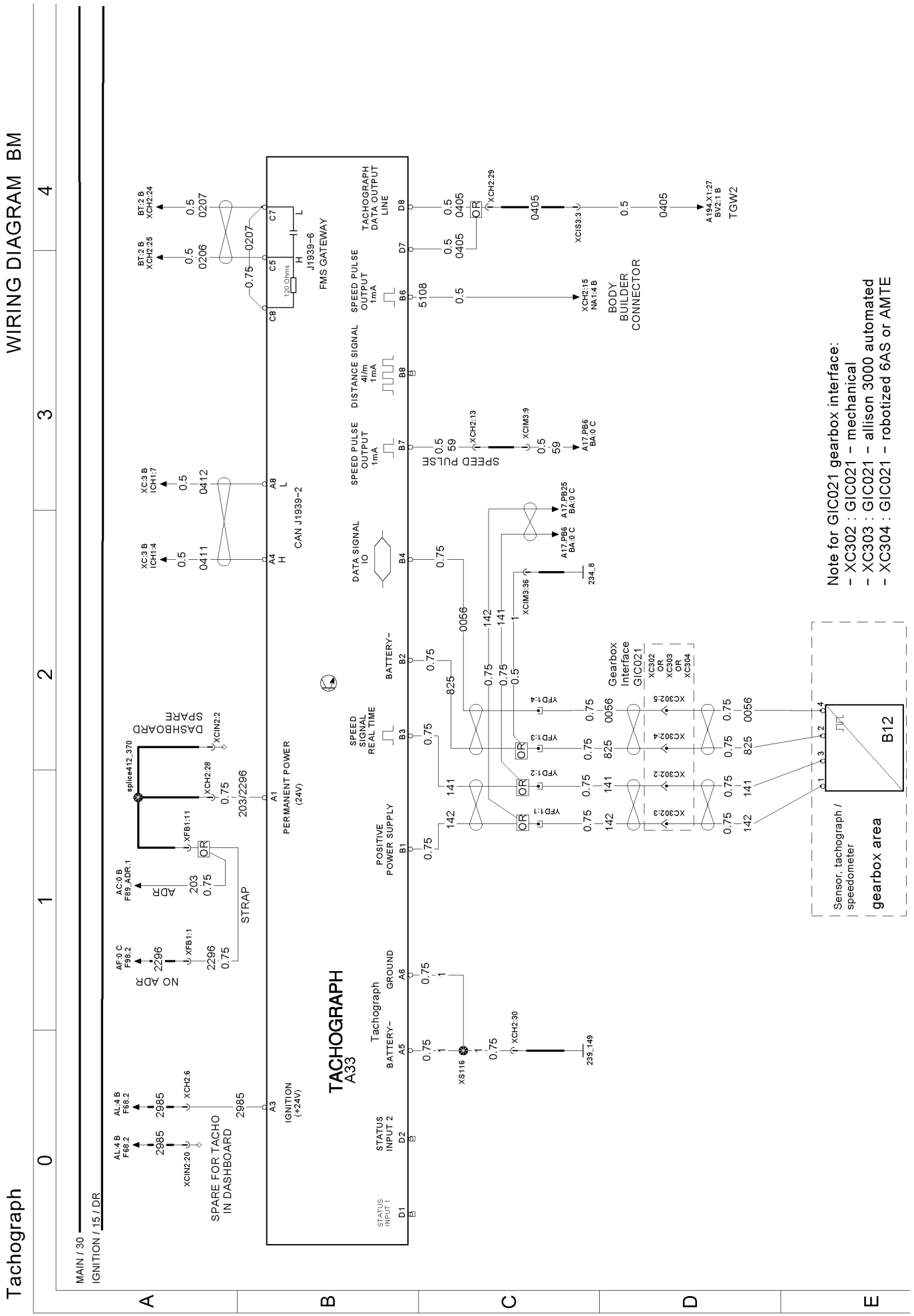

MAIN / 30
IGNITION / 15 / DR
HEATED MIRROR RELAY AND HEATED MIRROR WINDSCREEN
REVERSE LIGHT RELAY
RSL3 SWITCH
PARK BRAKE TRIGGER RELAY (TILT CAB)
VEHICLE SPEED TRIGGER OUTPUT (EJB-BBC)
KEY SWITCH IGNITION
ADR
DAY TIME RUNNING LIGHT RELAY
Switch, Auto/manu brake blending
S102
Other part of this component see sheet BA1/IO
A17 Control unit, VECU (Vehicle ECU)
Position switch, Neutral
S90
V11
PTO CONTROL FROM CHASSIS
PTO 1 REQUEST
ENGINE SPEED SELECTOR 2 (SPEED 2-4)
ENGINE SPEED SELECTOR 1 (SPEED 1-3)
PTO 1 FEED BACK (SPEED 1)
RSL 2 (SPEED LIMIT) BOM ONLY
BODY BUILDER CONNECTOR PTO SPEED
AUTOMATIC GEAR BOX
Switch, Difficult terrain, increase engine RPM
S131
SPEED SENSOR
SPEED TACHO
VEHICLE SPEED SENSOR SUPPLY
HEATED MIRROR REQUEST
PTO 1 VALVE
ENGINE SPEED CONTROL REQUEST FROM CHASSIS
BRAKE LIGHT RELAY
(MANUAL GEAR BOX) REVERSE GEAR SWITCH
CHASSIS RESUME
ENGINE SPEED DECREASE S- CHASSIS
ENGINE SPEED INCREASE R+ CHASSIS
CHASSIS DECEL
CHASSIS ACCEL
ENGINE STOP REQUEST FROM CHASSIS
CLIMATE PRESSOSTAT STATUS
HEATED MIRROR FEEDBACK
KEY SWITCH CRANK (STARTER)
ADR
Sensor, accelerator pedal
B25
Stalk switch, retarder, selector type
S24
ANALOG RETARDER CONTROL
SPARE
BODY BUILDER CONNECTOR
J1939 CAN1 J1708/J1587 J1939 CAN2
120 Ohms

T3080826

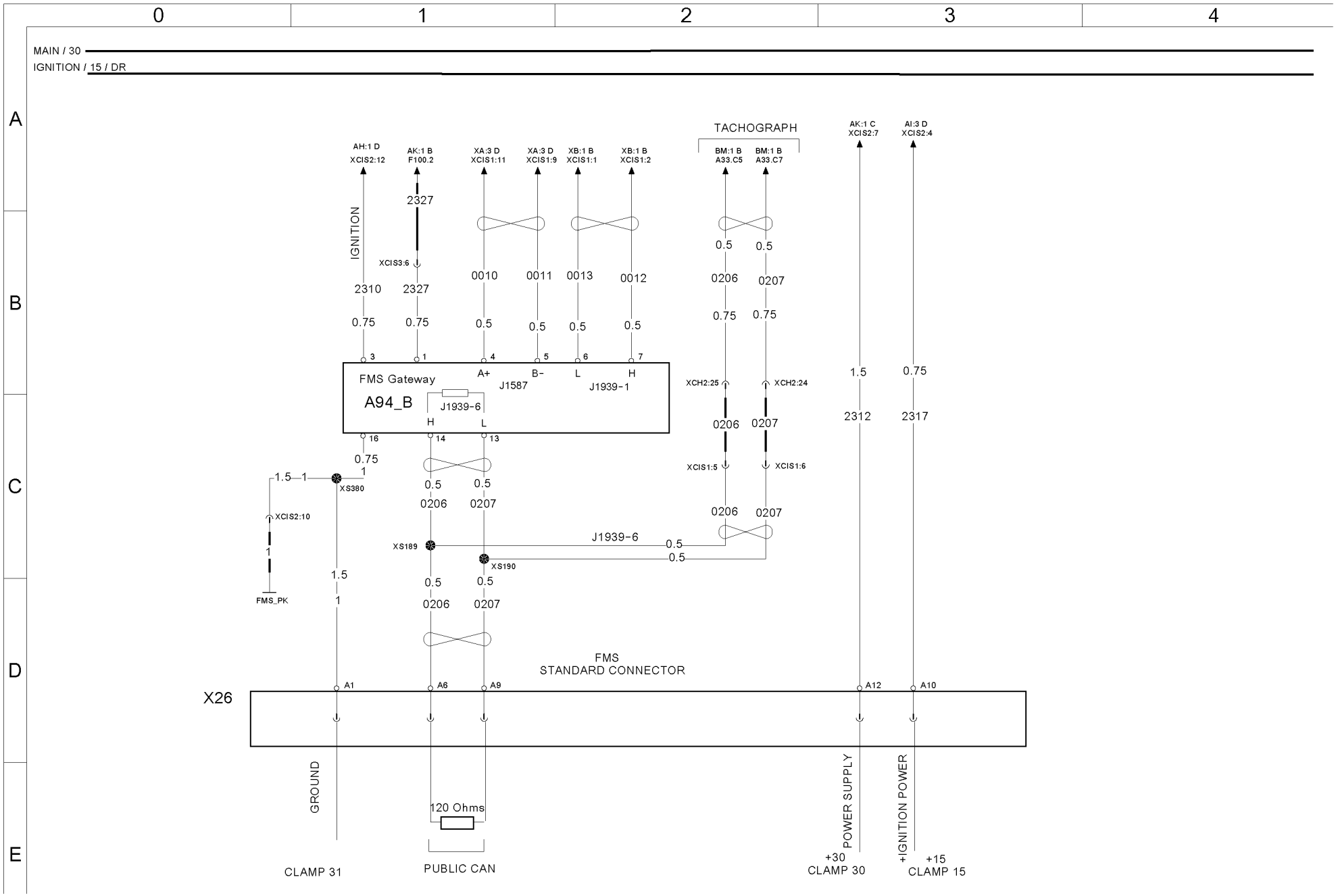

Vehicle ECU
WIRING DIAGRAM BA1
MAIN / 30
IGNITION / 15 / DR
A17
Control unit, VECU
(Vehicle ECU)
Other part
of this component
see sheets BA/IO
+24V
OUTS4
PB5
AH
PA1
AH
PA2
AH
PA10
AH
PA9
AH
PA3
+5V
PB26
S/–
R/+
INHIBIT VEHICLE IMMOBILIZATION
FOR CEN NORM
VEHICLE IMMOBILIZATION
REQUEST
ICBB2:16
NB:2 C
ICBB2:14
NB:1 C
BA:0 C
A17:PA20
BA:3 A
XCIM2:13
XCIM2:22
XCIM3:27
209_253
XCIM2:17
205_292
S147B
(VTC only)
S146
Switch, R/+ and S/–
OR
XCIM2:24
XCIM2:28
XCIM2:34
XCIM2:27
Splice145_62
GQ:3 A
splice418_980
XCIM2:23
BA:2 A
splice24_59
X35
Clockspring
2V Red
short cable
2V Red
long cable
Orange
Black
White
Red
CCA
Other part
of this component
see sheet GQ1
A
B
C
D
E

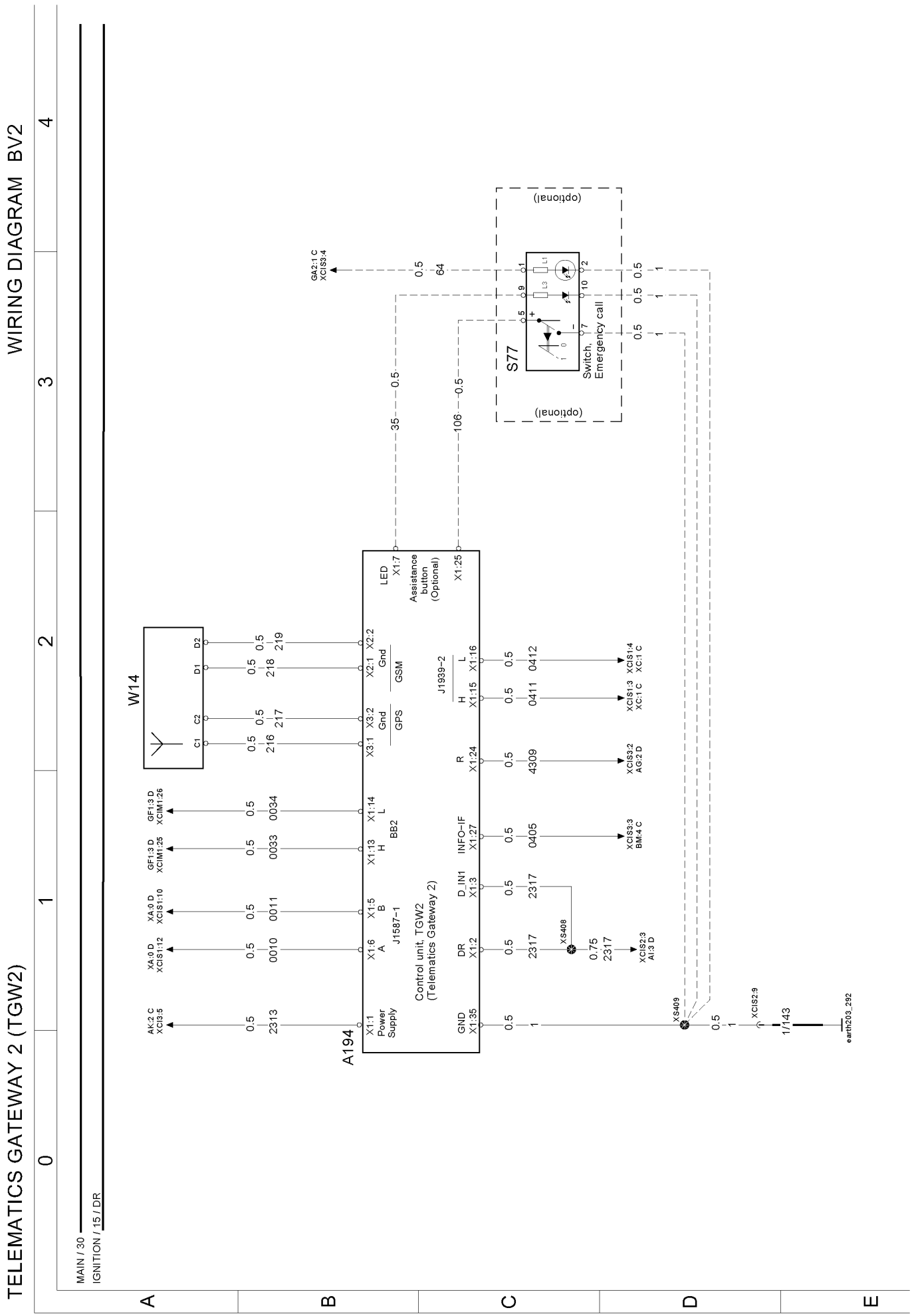
T3080827


MAIN / 30
IGNITION / 15 / DR
IGNITION POWER SUPPLY
CHASSIS LIGHTING
CHASSIS/EQUIPMENT
MACHINE WORKING POSITION
HIGH BEAM
HEAD LIGHTS
FRONT FOG
LIGHTS
SEAT BELT
REMINDER
REAR FOG
LIGHTS
MACHINE ON
DIRECT BATTERIES
ADR
DIFF LOCK REAR WHEELS
AXLE 1
S30
Switch unit,
multi-function display
DWN
UP
ESC
SEL
A03
Instrument cluster, MV50
J1587-1
J1939-2/3
CAN 2/3
J1939
CAN 1
HOT KEY
WORKING SPOT LIGHT
TRACTOR VEHICLE
DIFF LOCK REAR WHEELS
AXLE 2
B147L1
Sensor,
Disc brake pad,
front L1
B147R1
Sensor,
Disc brake pad,
front R1
B146L1
Sensor,
Disc brake pad,
rear L1
B146R1
Sensor,
Disc brake pad,
rear R1
S211
Switch, DPF regeneration
DPF switch on
CO build trucks
refer schematic issue 01
AUTO
REGENERATION
MANUAL
REGENERATION
BATTERY
CHARGING
HEATER
COMMAND
PARKING HEATER
PUSH BUTTON
AUTONOMUS PARKING HEATER
B160B
Sensor,
Air filter restriction
R02P
Sensor, outside
temperature
Heater, rear-view mirror
see sheets IF1-IF2
B07
Sensor,
fuel level
XC320, sweeper interface
ABS TRAILER
(AUS ONLY)
ABS TRAILER
X45
Second Fueltank,
ground connection

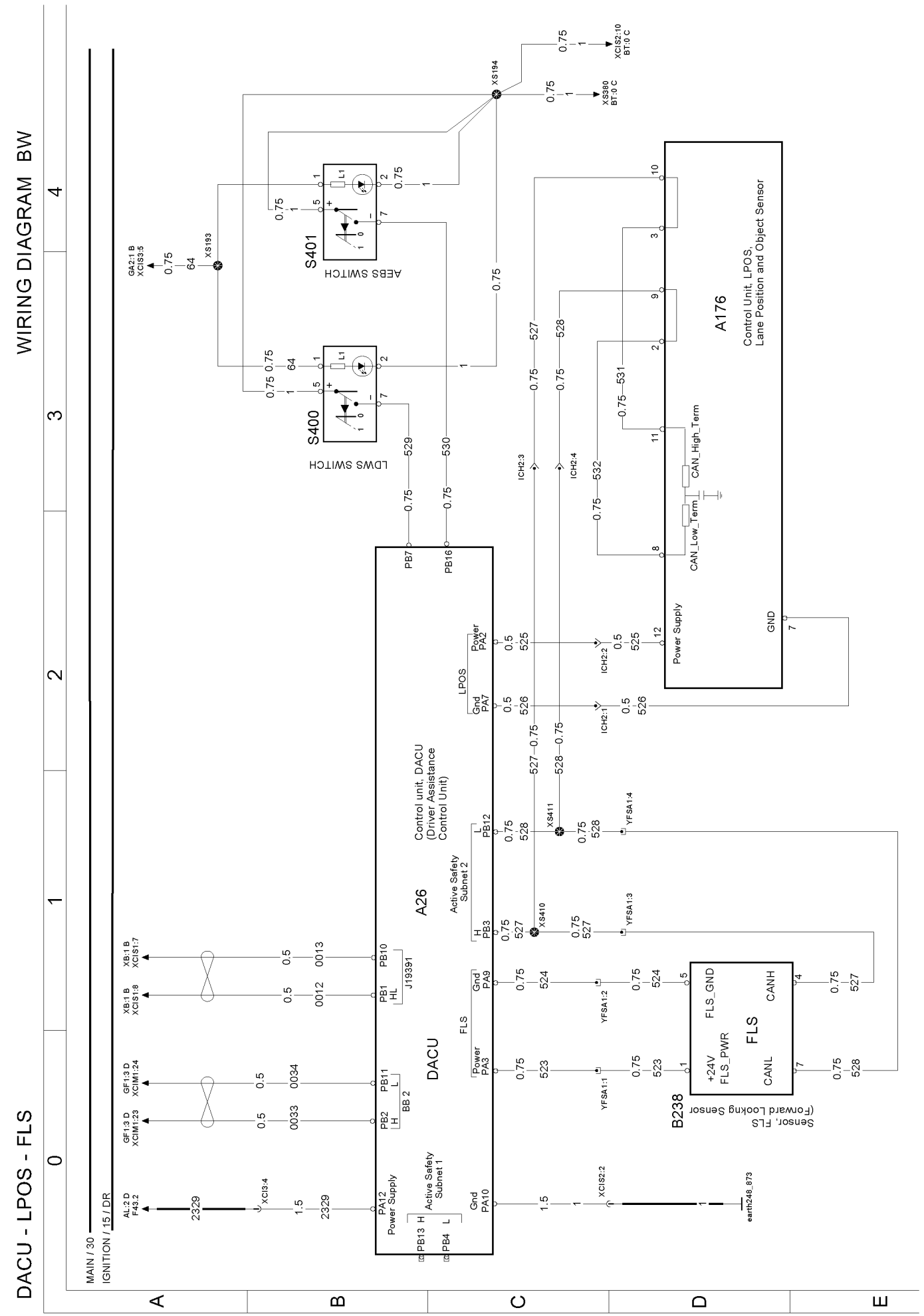

WIRING DIAGRAM BM
Tachograph
MAIN / 30
IGNITION / 15 / DR
TACHOGRAPH
A33
STATUS INPUT 1
STATUS INPUT 2
Tachograph
BATTERY-
GROUND
IGNITION (+24V)
PERMANENT POWER (24V)
POSITIVE POWER SUPPLY
SPEED SIGNAL REAL TIME
BATTERY-
DATA SIGNAL IO
SPEED PULSE OUTPUT 1mA
DISTANCE SIGNAL 4l/m 1mA
SPEED PULSE OUTPUT 1mA
TACHOGRAPH DATA OUTPUT LINE
CAN J1939-2
J1939-6
FMS GATEWAY
120.0ohms
SPEED PULSE
BODY BUILDER CONNECTOR
TGW2
SPARE FOR TACHO IN DASHBOARD
NO ADR
ADR
STRAP
DASHBOARD SPARE
splice412_370
Gearbox Interface GIC021
XC302 OR XC303 OR XC304
Sensor, tachograph / speedometer
gearbox area
B12
Note for GIC021 gearbox interface:
- XC302 : GIC021 - mechanical
- XC303 : GIC021 - allison 3000 automated
- XC304 : GIC021 - robotized 6AS or AMTE

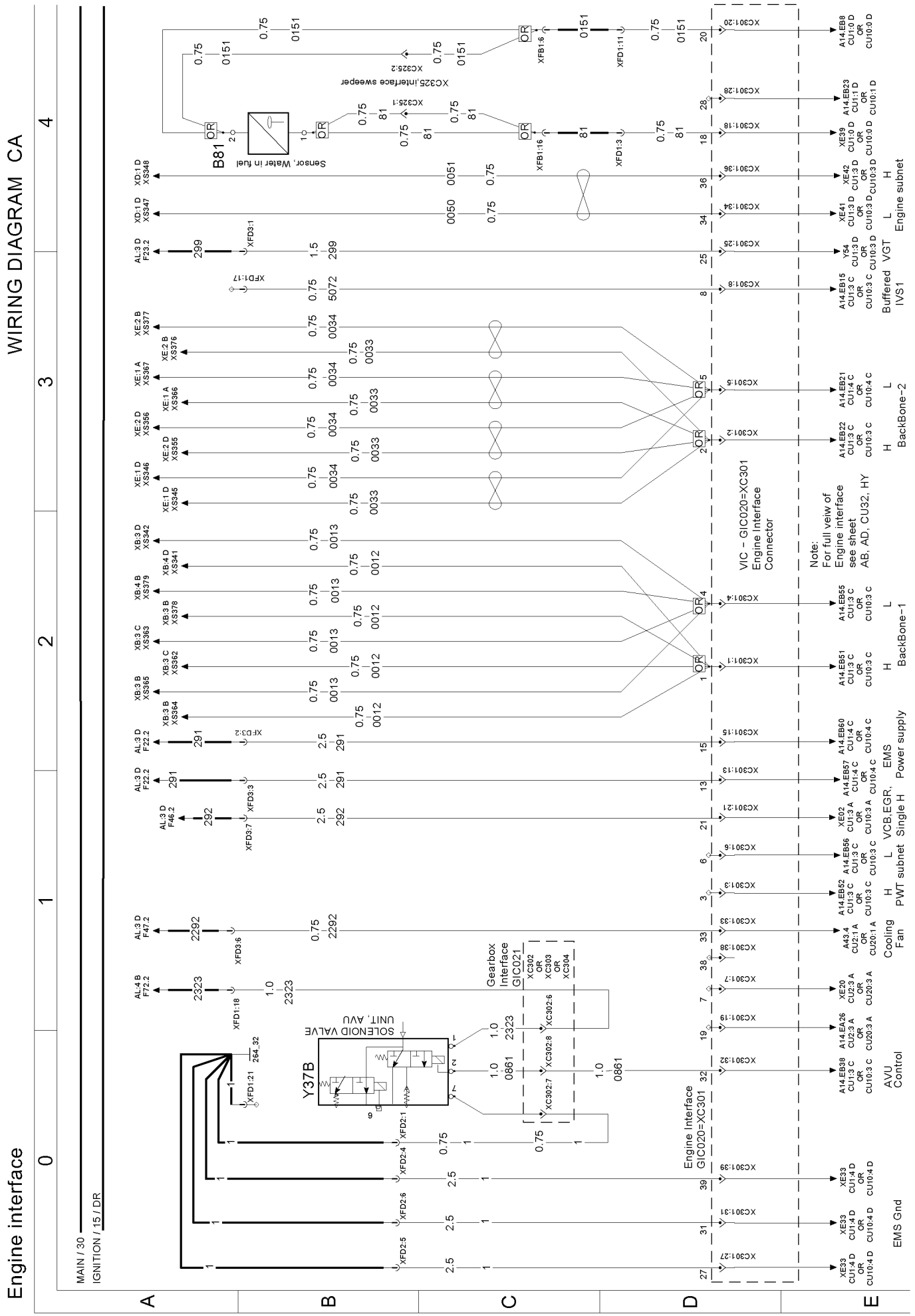
T3093208


0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
TACHOGRAPH
AH:1 D XCIS2:12
AK:1 B F100.2
XA:3 D XCIS1:11
XA:3 D XCIS1:9
XB:1 B XCIS1:1
XB:1 B XCIS1:2
BM:1 B A33.C5
BM:1 B A33.C7
AK:1 C XCIS2:7
AI:3 D XCIS2:4
IGNITION
2327
XCIS3:6
2310
2327
0010
0011
0013
0012
0.5
0206
0207
0.75
1.5
2312
2317
FMS Gateway
A94_B
J1939-6
A+
B-
L
H
J1587
J1939-1
XCH2:25
XCH2:24
XCIS1:5
XCIS1:6
XS380
XCIS2:10
FMS_PK
XS189
XS190
J1939-6
X26
FMS
STANDARD CONNECTOR
A1
A6
A9
A12
A10
GROUND
120 Ohms
POWER SUPPLY
+IGNITION POWER
CLAMP 31
PUBLIC CAN
+30
CLAMP 30
+15
CLAMP 15

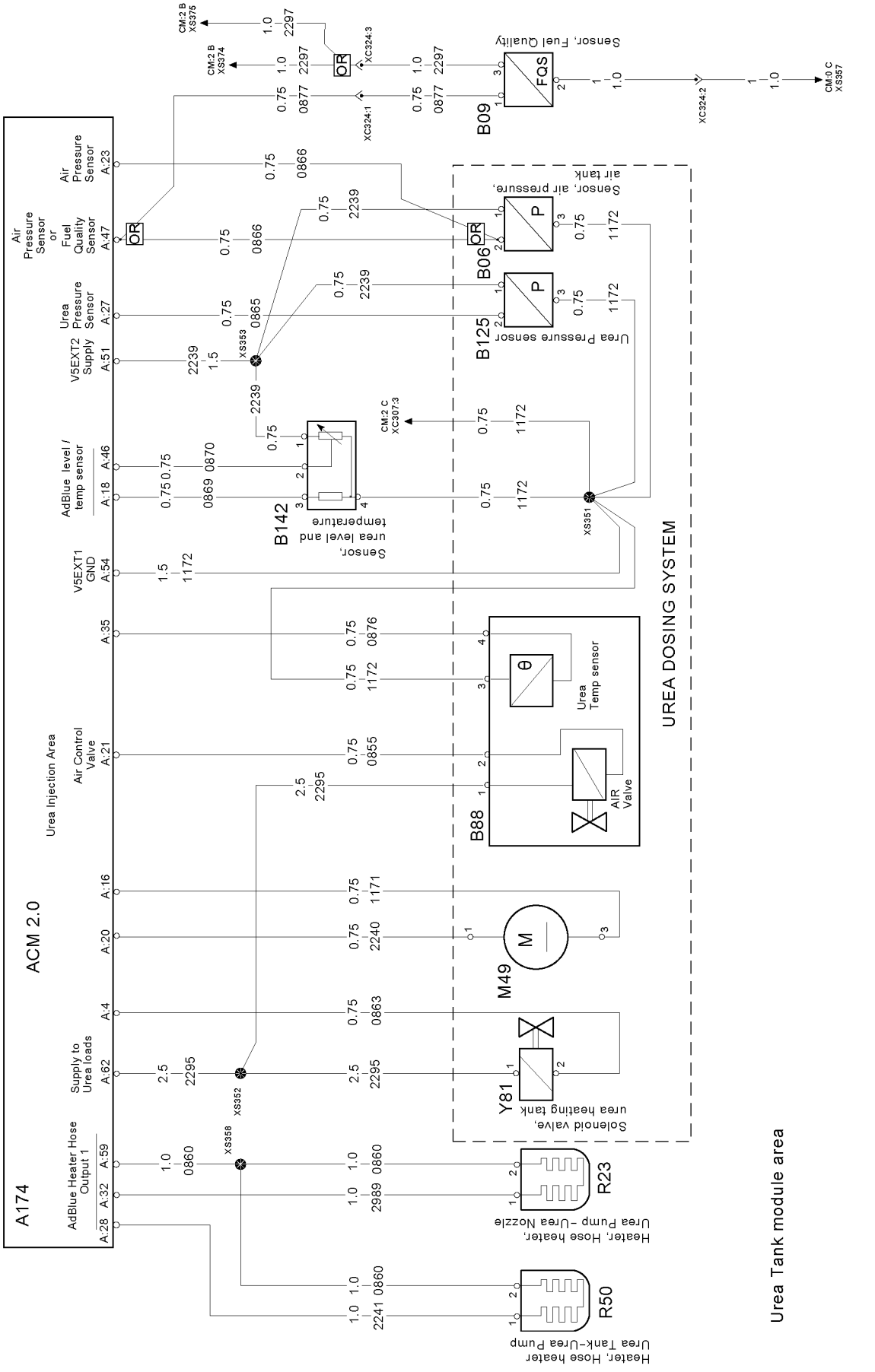

TELEMATICS GATEWAY 2 (TGW2)
WIRING DIAGRAM BV2
MAIN / 30
IGNITION / 15 / DR
W14
A194
Control unit, TGW2
(Telematics Gateway 2)
J1587-1
J1939-2
BB2
S77
Switch,
Emergency call
(optional)
(optional)
Assistance
button
(Optional)
LED
X1:7
X1:25
X1:1
Power
Supply
X1:6
A
X1:5
B
X1:13
H
X1:14
L
X3:1
Gnd
X3:2
GPS
X2:1
Gnd
X2:2
GSM
GND
X1:35
DR
X1:2
D_IN1
X1:3
INFO-IF
X1:27
R
X1:24
H
X1:15
L
X1:16
AK:2 C
XCIS:5
XA:0 D
XCIS1:12
XA:0 D
XCIS1:10
GF1:3 D
XCIM1:25
GF1:3 D
XCIM1:26
GA2:1 C
XCIS3:4
XCIS3:3
BM:4 C
XCIS3:2
AG:2 D
XCIS2:3
AI:3 D
XCIS1:3
XC:1 C
XCIS1:4
XC:1 C
XS408
XS409
XCIS2:9
1/143
earth203_292

DACU - LPOS - FLS



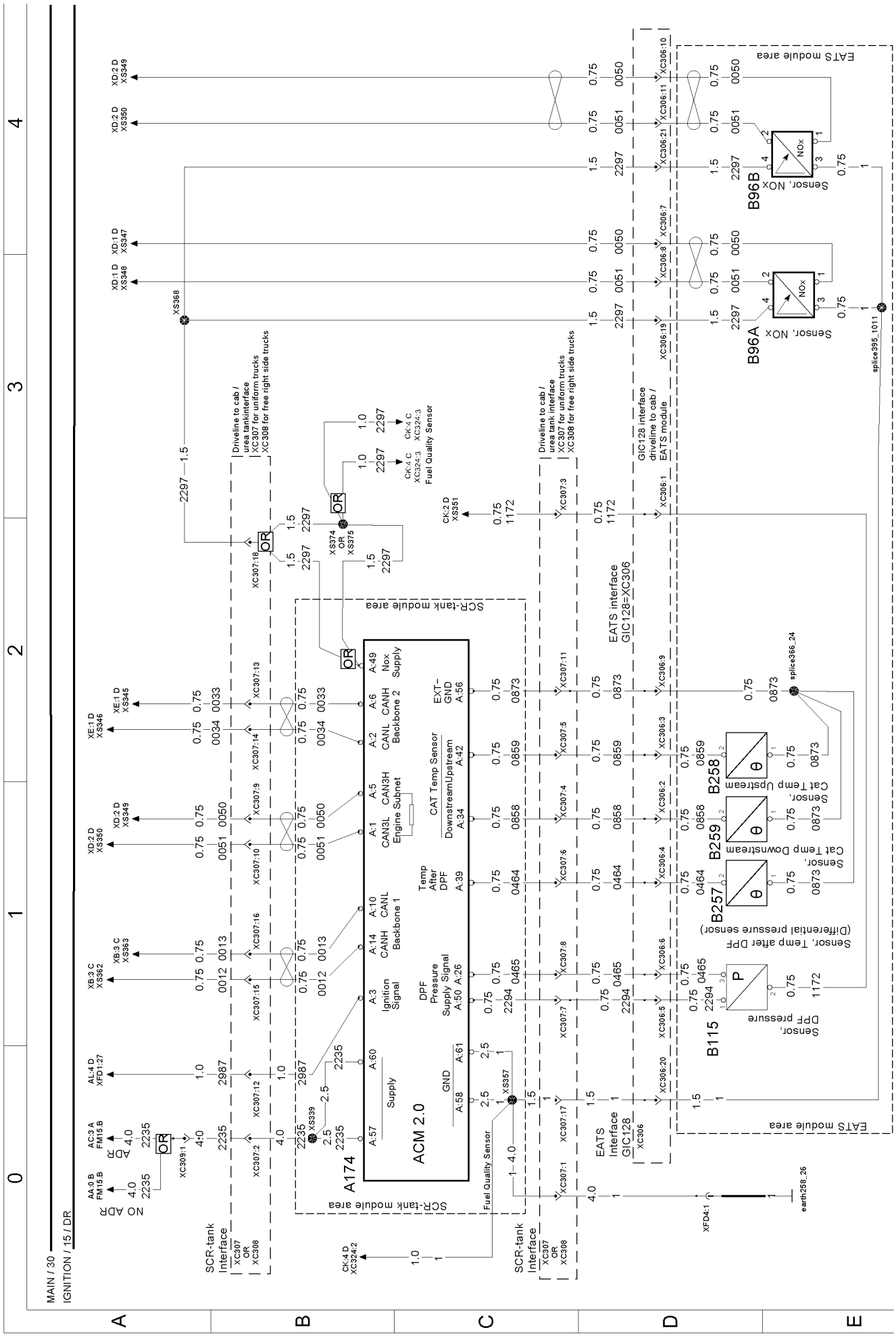

Engine interface
WIRING DIAGRAM CA
MAIN / 30
IGNITION / 15 / DR
Sensor, Water in fuel
B81
XC325,Interface sweeper
SOLENOID VALVE UNIT, AVU
Y37B
Gearbox Interface GIC021
Engine Interface GIC020=XC301
VIC – GIC020=XC301 Engine Interface Connector
Note: For full veiw of Engine interface see sheet AB, AD, CU32, HY
Buffered IVS1
VGT
Engine subnet
BackBone-2
BackBone-1
EMS Power supply
VCB,EGR, Single H
PWT subnet
Cooling Fan
AVU Control
EMS Gnd

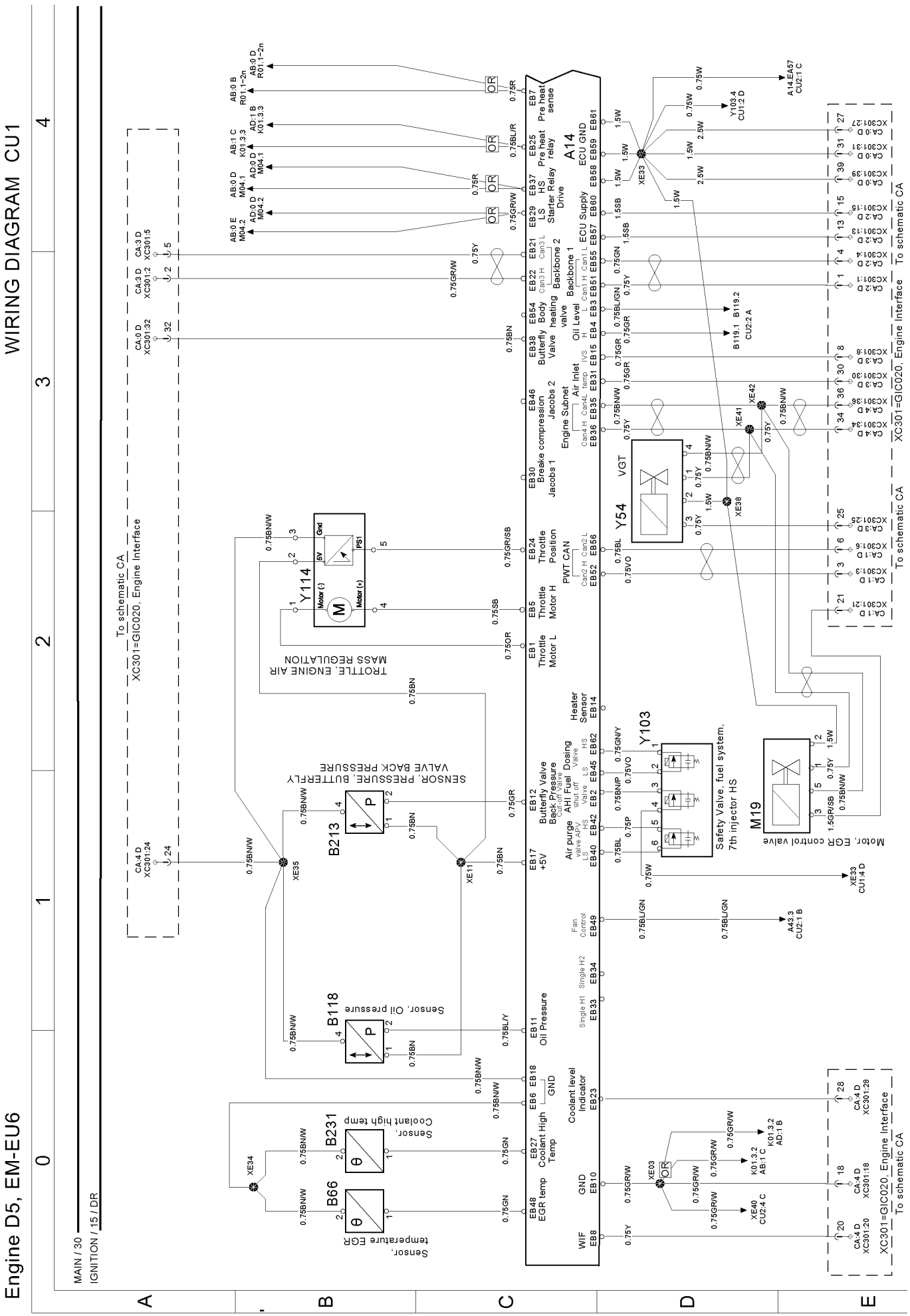
T3098491



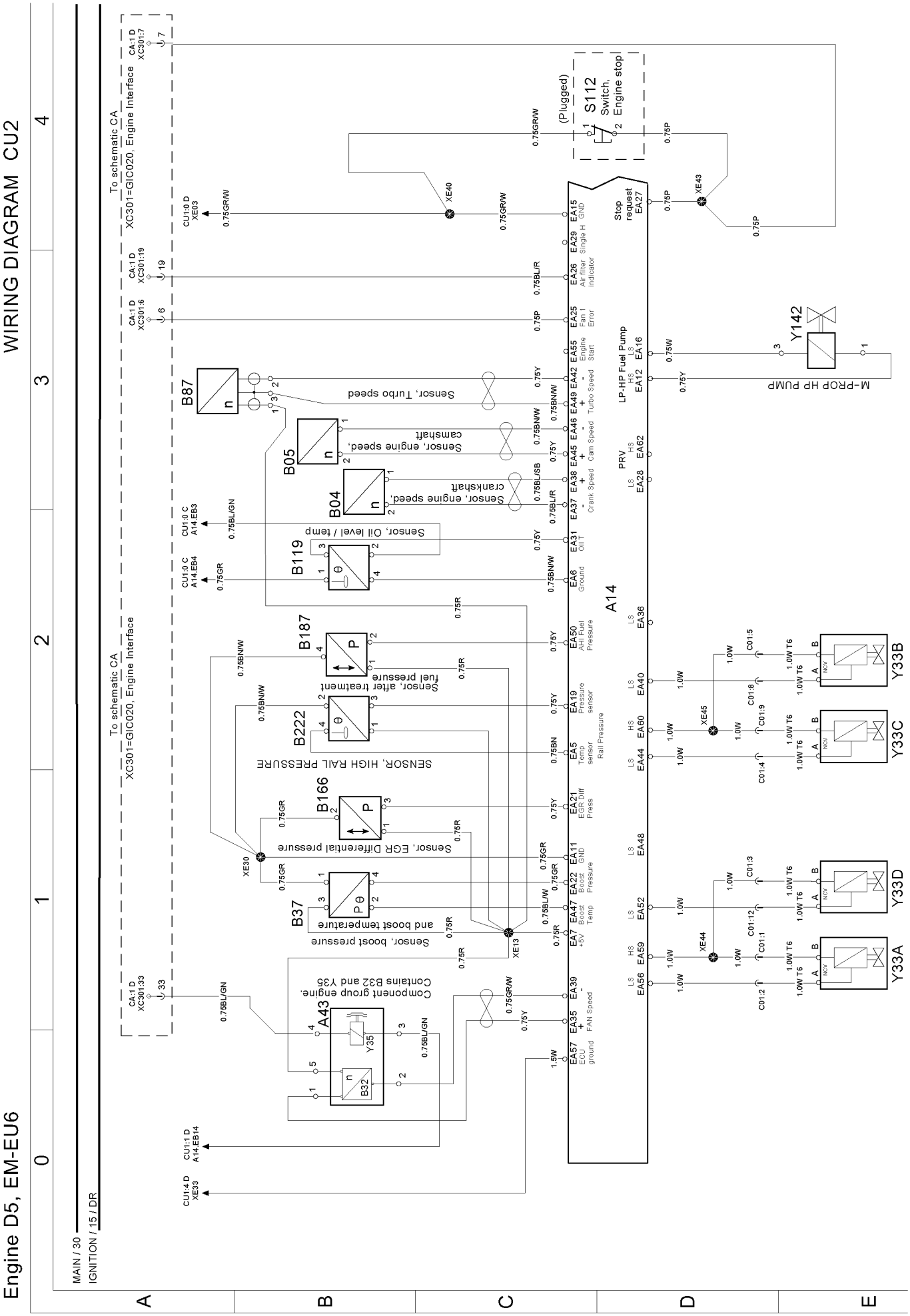
MAIN / 30
IGNITION / 15 / DR

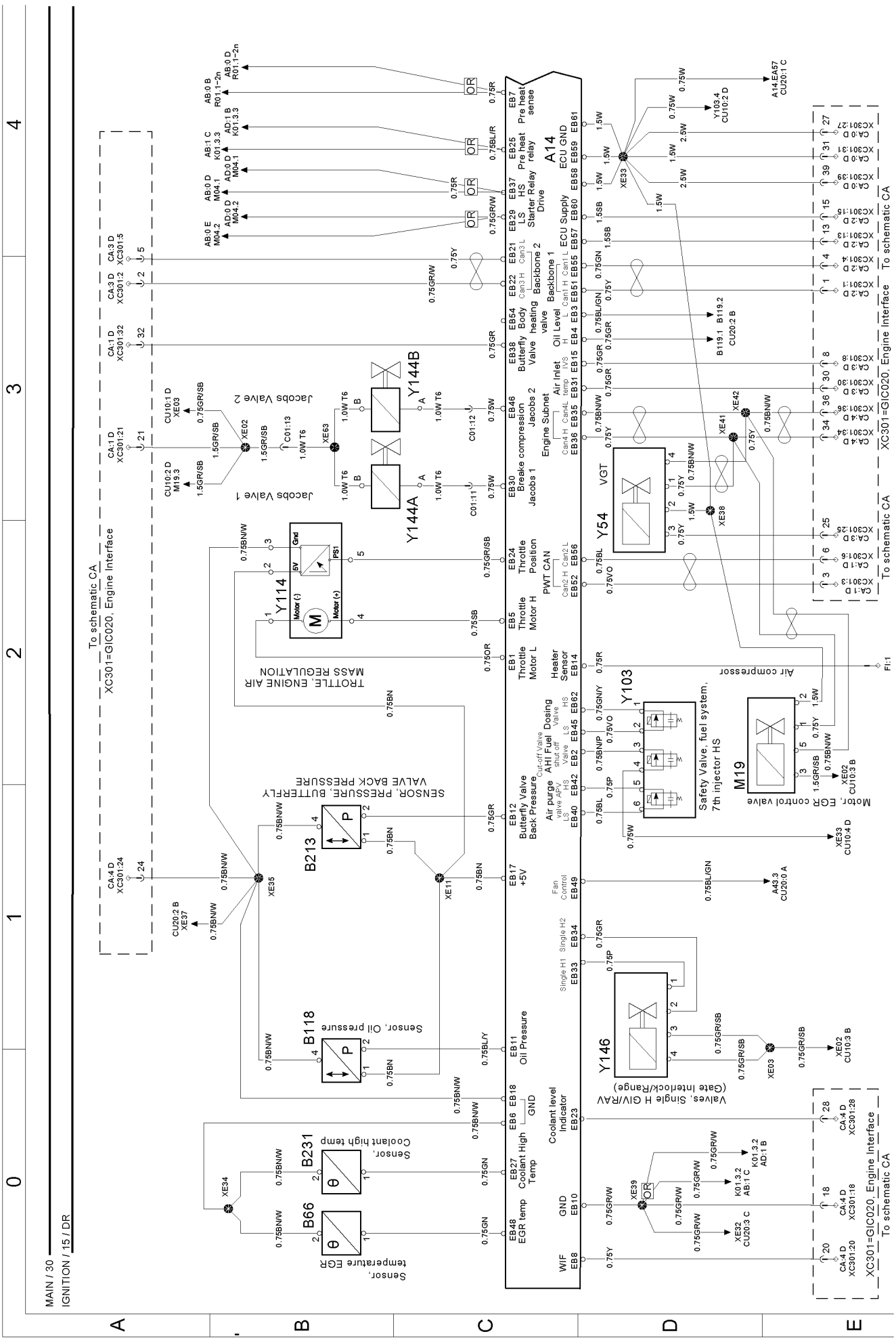
T3087447


MAIN / 30
IGNITION / 15 / DR
ACM 2.0
A174
SCR-tank module area
EATS module area
SCR-tank Interface
EATS Interface GIC128
EATS interface GIC128=XC306
Driveline to cab / urea tankinterface XC307 for uniform trucks XC308 for free right side trucks
GIC128 interface driveline to cab / EATS module
Fuel Quality Sensor
B96A
B96B
Sensor, NOx
B257
B258
B259
B115
Sensor, Cat Temp Upstream
Sensor, Cat Temp Downstream
Sensor, Temp after DPF (Differential pressure sensor)
Sensor, DPF pressure
CAT Temp Sensor
DownstreamUpstream
Temp After DPF
DPF Pressure Supply Signal
Ignition Signal
Engine Subnet
Backbone 1
Backbone 2
Nox Supply
EXT-GND
Supply
GND
NO ADR
ADR
OR
XS368
XS374 OR XS375
XS339
XS357
XS351
XFD4:1
earth258_26
splice395_1011
splice366_24


MAIN / 30
IGNITION / 15 / DR
A14
ECU GND
Y54
VGT
Y103
Safety Valve, fuel system, 7th injector HS
M19
Motor, EGR control valve
Y114
TROTTLE, ENGINE AIR MASS REGULATION
B213
SENSOR, PRESSURE, BUTTERFLY VALVE BACK PRESSURE
B118
Sensor, Oil pressure
B231
Sensor, Coolant high temp
B66
Sensor, temperature EGR
To schematic CA
XC301=GIC020, Engine Interface

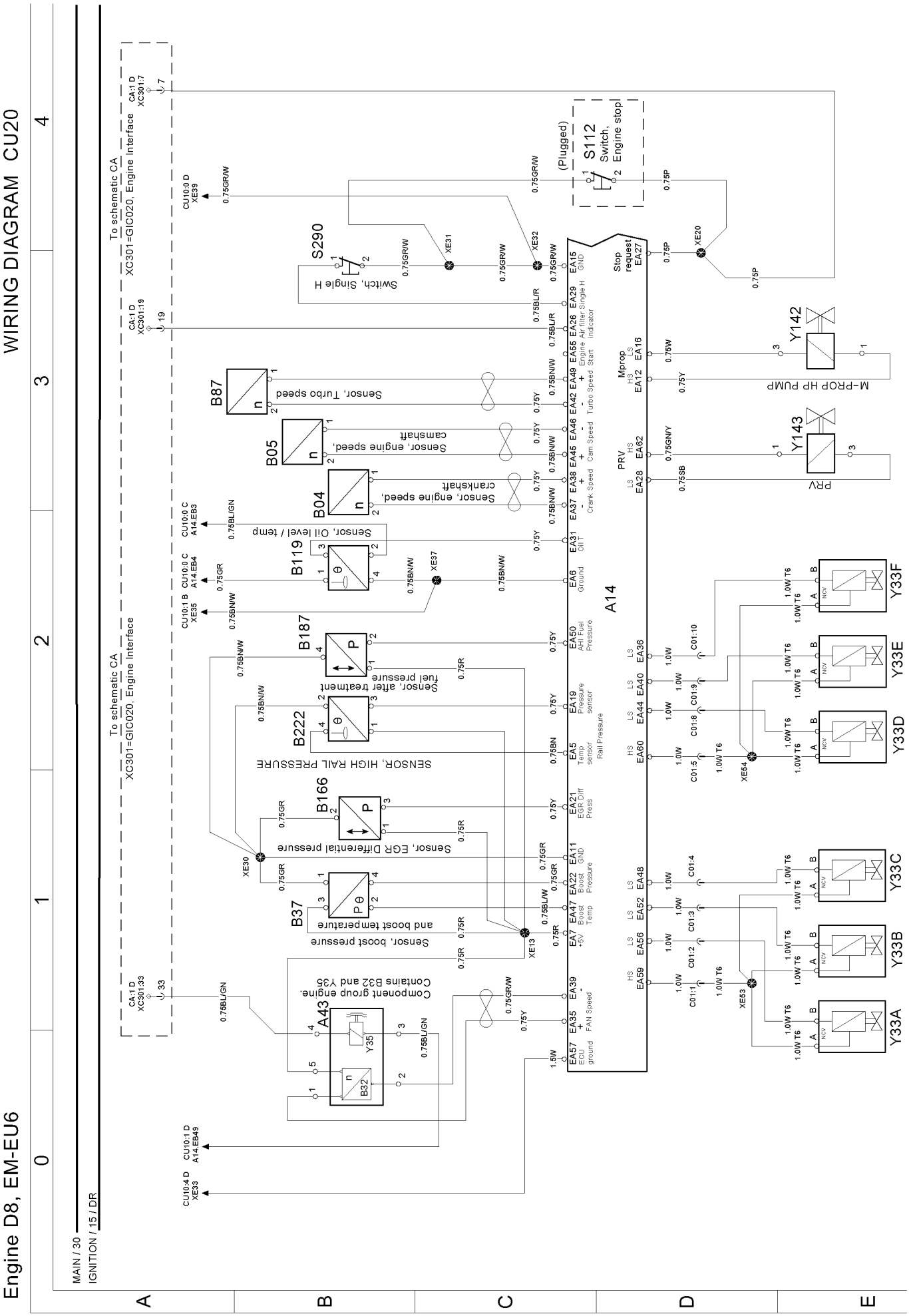
WIRING DIAGRAM CU2

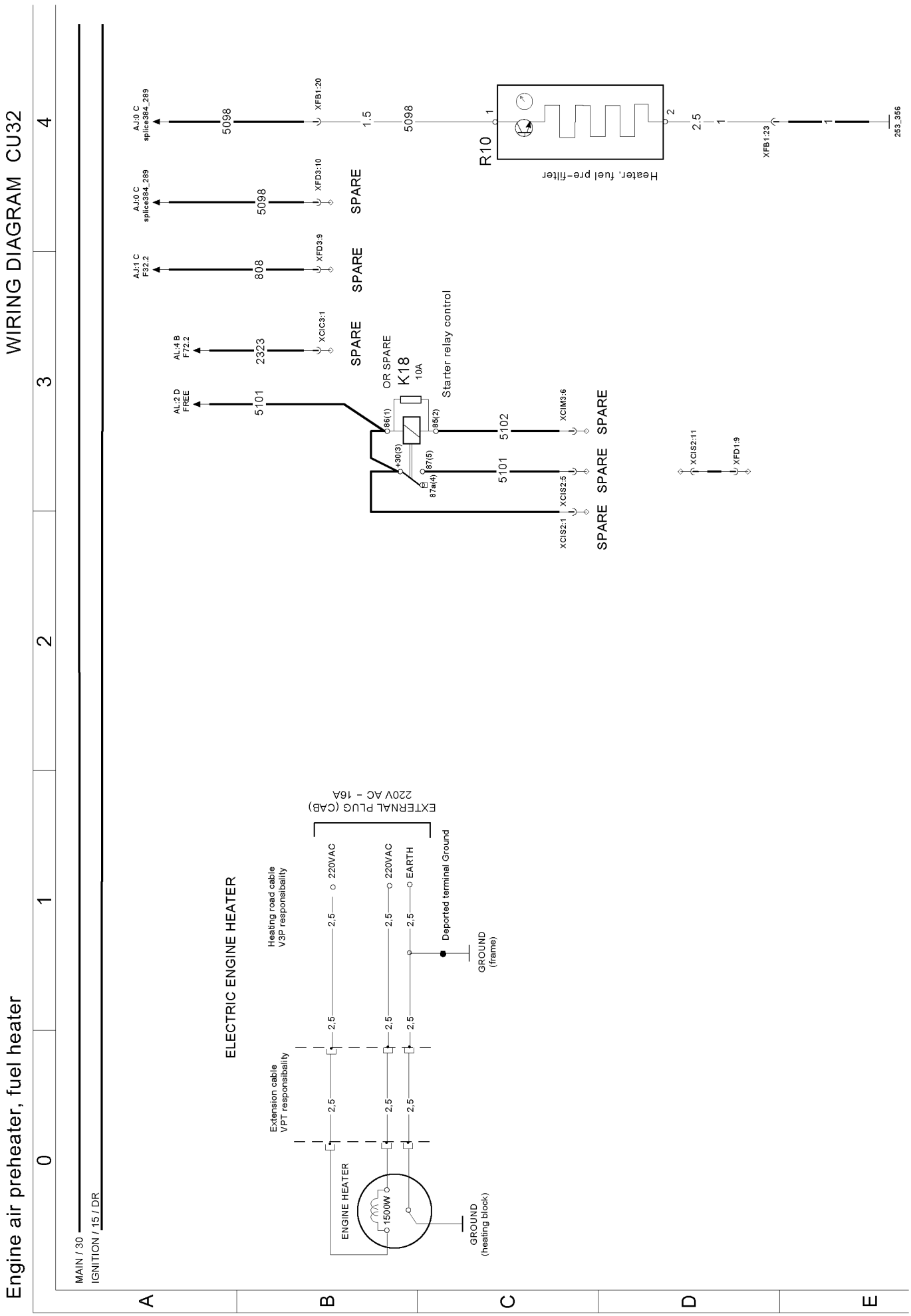



MAIN / 30
IGNITION / 15 / DR
A14
ECU GND
Y144A
Y144B
Jacobs Valve 1
Jacobs Valve 2
Y114
TROTTLE, ENGINE AIR MASS REGULATION
B213
SENSOR, PRESSURE, BUTTERFLY VALVE BACK PRESSURE
B118
Sensor, Oil pressure
B231
Sensor, Coolant high temp
B66
Sensor, temperature EGR
Y54
VGT
Y103
Safety Valve, fuel system, 7th injector HS
M19
EGR control valve
Motor, EGR
Air compressor
Y146
Valves, Single H GIV/RAV (Gate Interlock/Range)
To schematic CA
XC301=GIC020, Engine Interface

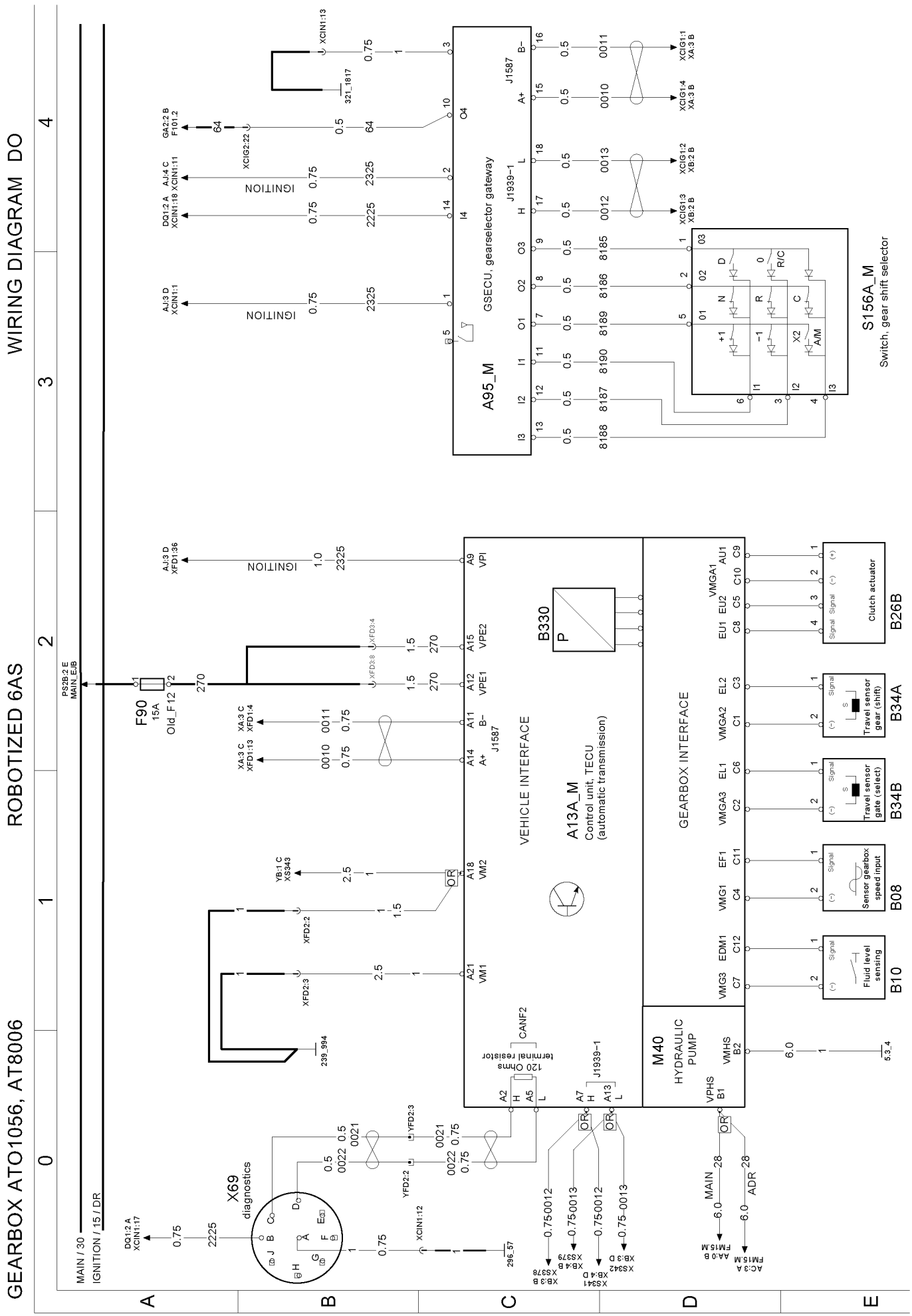
T3084187

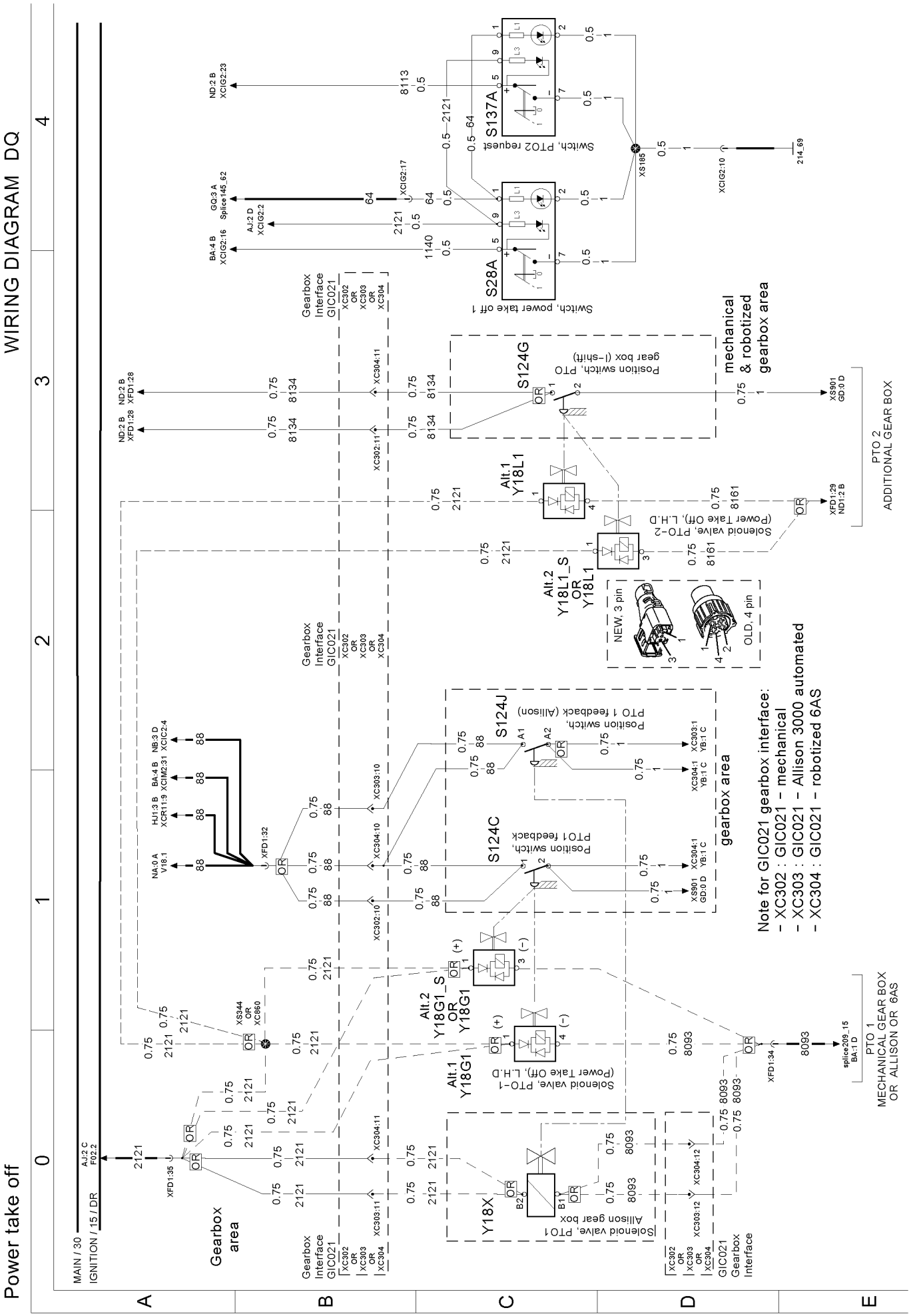
WIRING DIAGRAM CU20



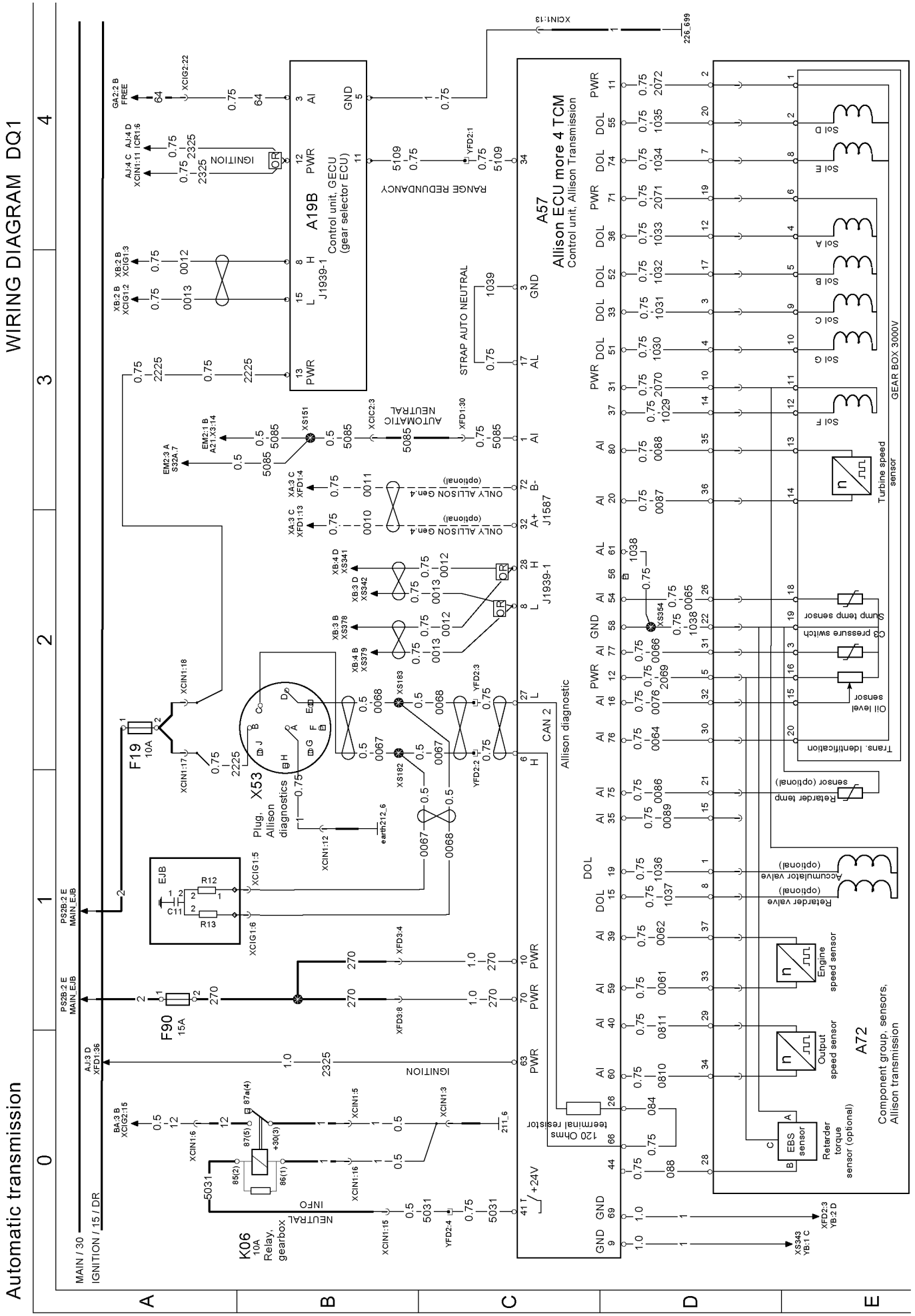

Engine air preheater, fuel heater
WIRING DIAGRAM CU32
MAIN / 30
IGNITION / 15 / DR
0
1
2
3
4
A
B
C
D
E
AL:2 D
FREE
AL:4 B
F72.2
AJ:1 C
F32.2
AJ:0 C
splice384_289
AJ:0 C
splice384_289
5101
2323
808
5098
5098
XCIC3:1
XFD3:9
XFD3:10
XFB1:20
SPARE
SPARE
SPARE
1.5
5098
R10
Heater, fuel pre-filter
2.5
XFB1:23
253_356
OR SPARE
K18
10A
Starter relay control
86(1)
85(2)
+30(3)
87(5)
87a(4)
5102
5101
XCIM3:6
XCIS2:5
XCIS2:1
SPARE
SPARE
SPARE
XCIS2:11
XFD1:9
ELECTRIC ENGINE HEATER
Extension cable
VPT responsibality
Heating road cable
V3P responsibality
ENGINE HEATER
1500W
2,5
220VAC
220VAC
EARTH
Deported terminal Ground
GROUND
(frame)
GROUND
(heating block)
EXTERNAL PLUG (CAB)
220V AC - 16A

T3084189


GEARBOX ATO1056, AT8006
ROBOTIZED 6AS
WIRING DIAGRAM DO
MAIN / 30
IGNITION / 15 / DR
F90
15A
Old_F12
A95_M
GSECU, gearselector gateway
J1939-1
J1587
IGNITION
S156A_M
Switch, gear shift selector
VEHICLE INTERFACE
A13A_M
Control unit, TECU
(automatic transmission)
B330
GEARBOX INTERFACE
M40
HYDRAULIC
PUMP
X69
diagnostics
120 Ohms
terminal resistor
CANF2
Clutch actuator
B26B
Travel sensor
gear (shift)
B34A
Travel sensor
gate (select)
B34B
Sensor gearbox
speed input
B08
Fluid level
sensing
B10
MAIN
ADR

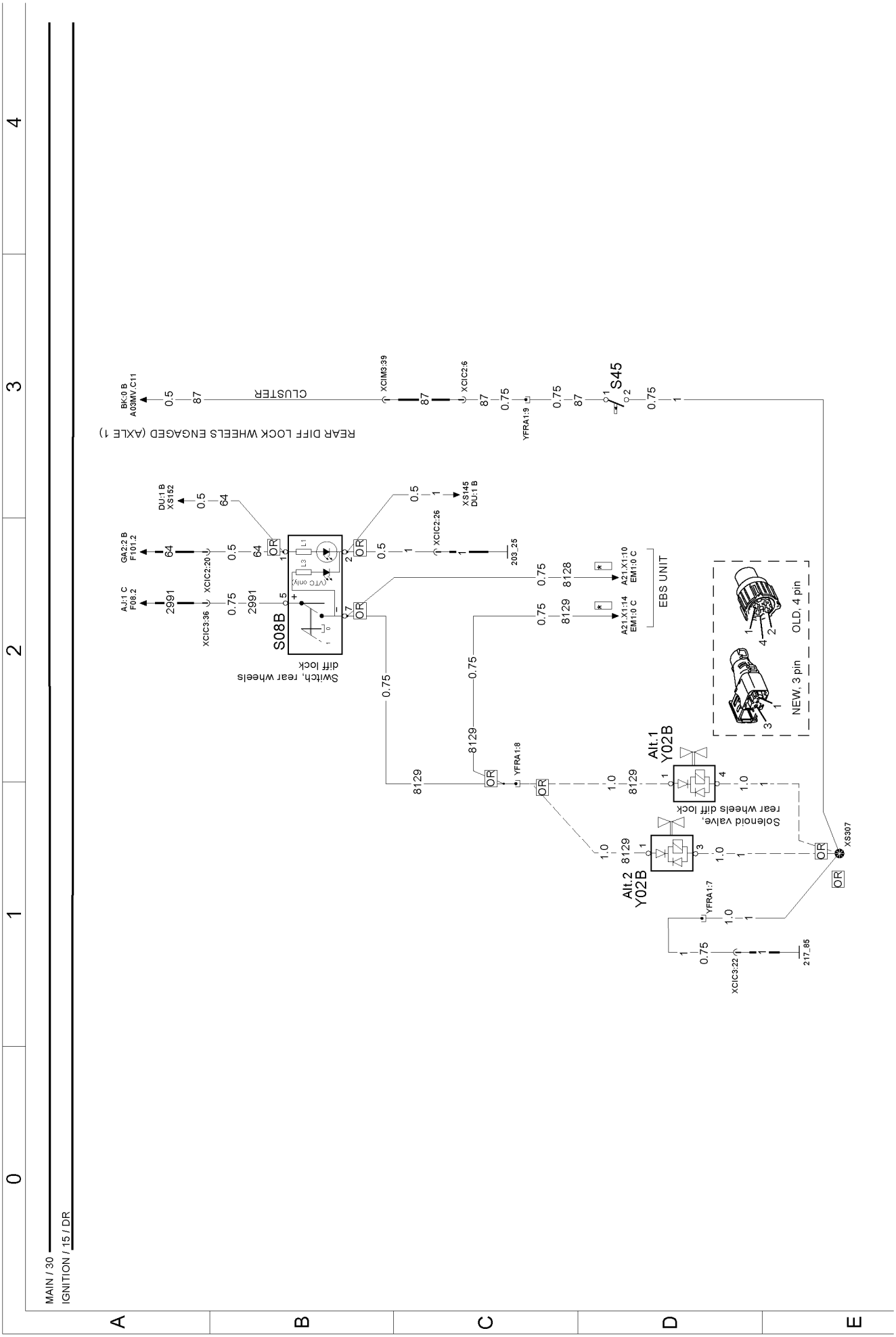

Power take off
MAIN / 30
IGNITION / 15 / DR
Gearbox area
Gearbox Interface GIC021
Switch, power take off 1
S28A
Switch, PTO2 request
S137A
Position switch, PTO gear box (I-shift)
S124G
mechanical & robotized gearbox area
Alt.1 Y18L1
Solenoid valve, PTO-2 (Power Take Off), L.H.D
Alt.2 Y18L1_S OR Y18L1
NEW, 3 pin
OLD, 4 pin
PTO 2 ADDITIONAL GEAR BOX
Position switch, PTO 1 feedback (Allison)
S124J
Position switch, PTO1 feedback
S124C
gearbox area
Note for GIC021 gearbox interface:
- XC302 : GIC021 - mechanical
- XC303 : GIC021 - Allison 3000 automated
- XC304 : GIC021 - robotized 6AS
Alt.2 Y18G1_S OR Y18G1
Alt.1 Y18G1
Solenoid valve, PTO-1 (Power Take Off), L.H.D
Y18X
Solenoid valve, PTO1 Allison gear box
PTO 1 MECHANICAL GEAR BOX OR ALLISON OR 6AS

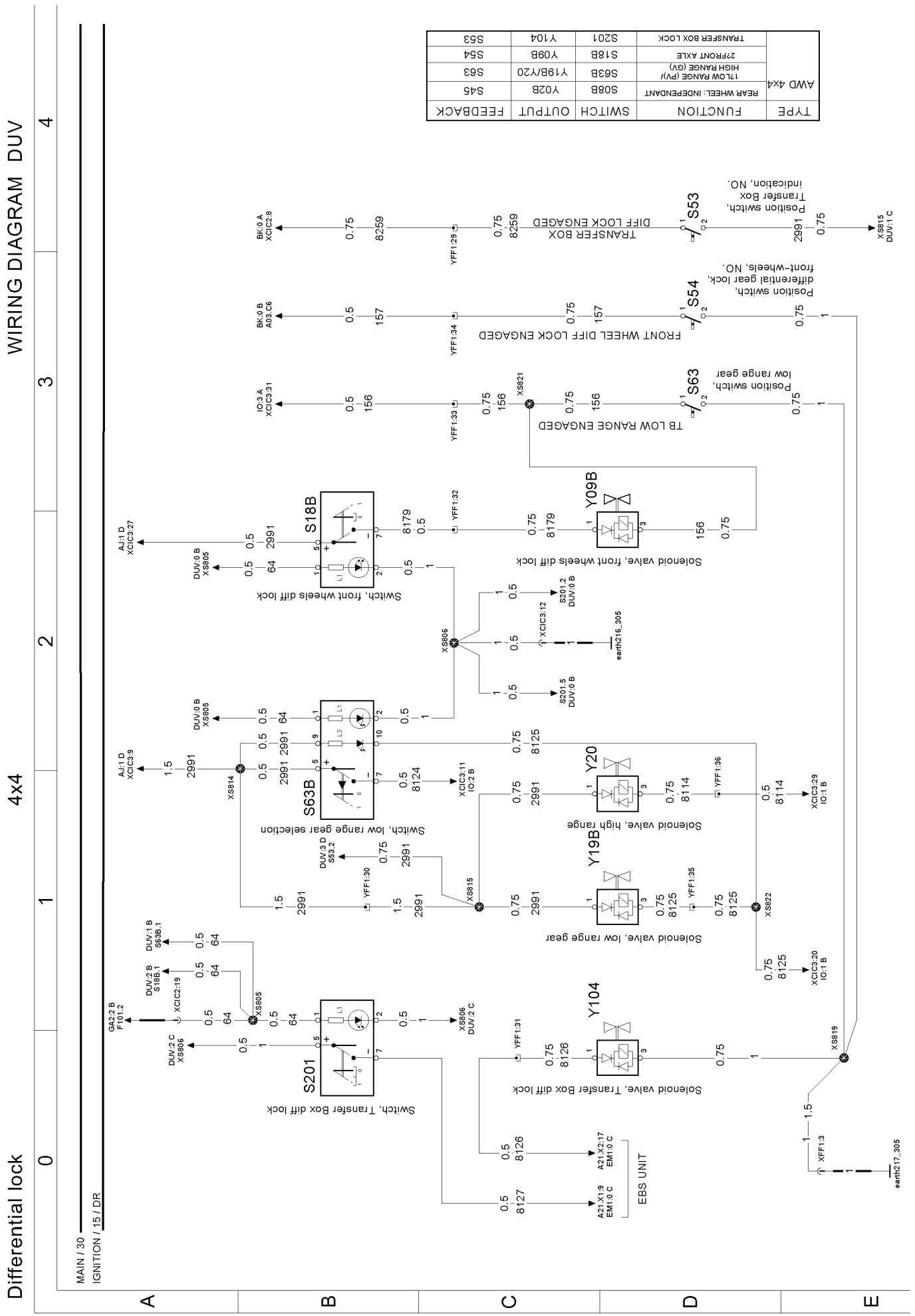
T3098489


WIRING DIAGRAM DQ1
Automatic transmission
A19B
Control unit, GECU
(gear selector ECU)
J1939-1
A57
Allison ECU more 4 TCM
Control unit, Allison Transmission
A72
Component group, sensors,
Allison transmission
F19
10A
F90
15A
K06
10A
Relay,
gearbox
X53
Plug,
Allison
diagnostics
EJB
R12
R13
C11
MAIN / 30
IGNITION / 15 / DR
IGNITION
RANGE REDUNDANCY
STRAP AUTO NEUTRAL
AUTOMATIC
NEUTRAL
ONLY ALLISON Gen 4
(optional)
CAN 2
Allison diagnostic
120 Ohms
terminal resistor
+24V
NEUTRAL
INFO
Sol D
Sol E
Sol A
Sol B
Sol C
Sol G
Sol F
GEAR BOX 3000V
Turbine speed
sensor
Sump temp sensor
Oil pressure switch
Oil level
sensor
Trans. Identification
Retarder temp
sensor (optional)
Accumulator valve
(optional)
Retarder valve
(optional)
Engine
speed sensor
Output
speed sensor
EBS
sensor
Retarder
torque
sensor (optional)
A
B
C
D
E
0
1
2
3
4

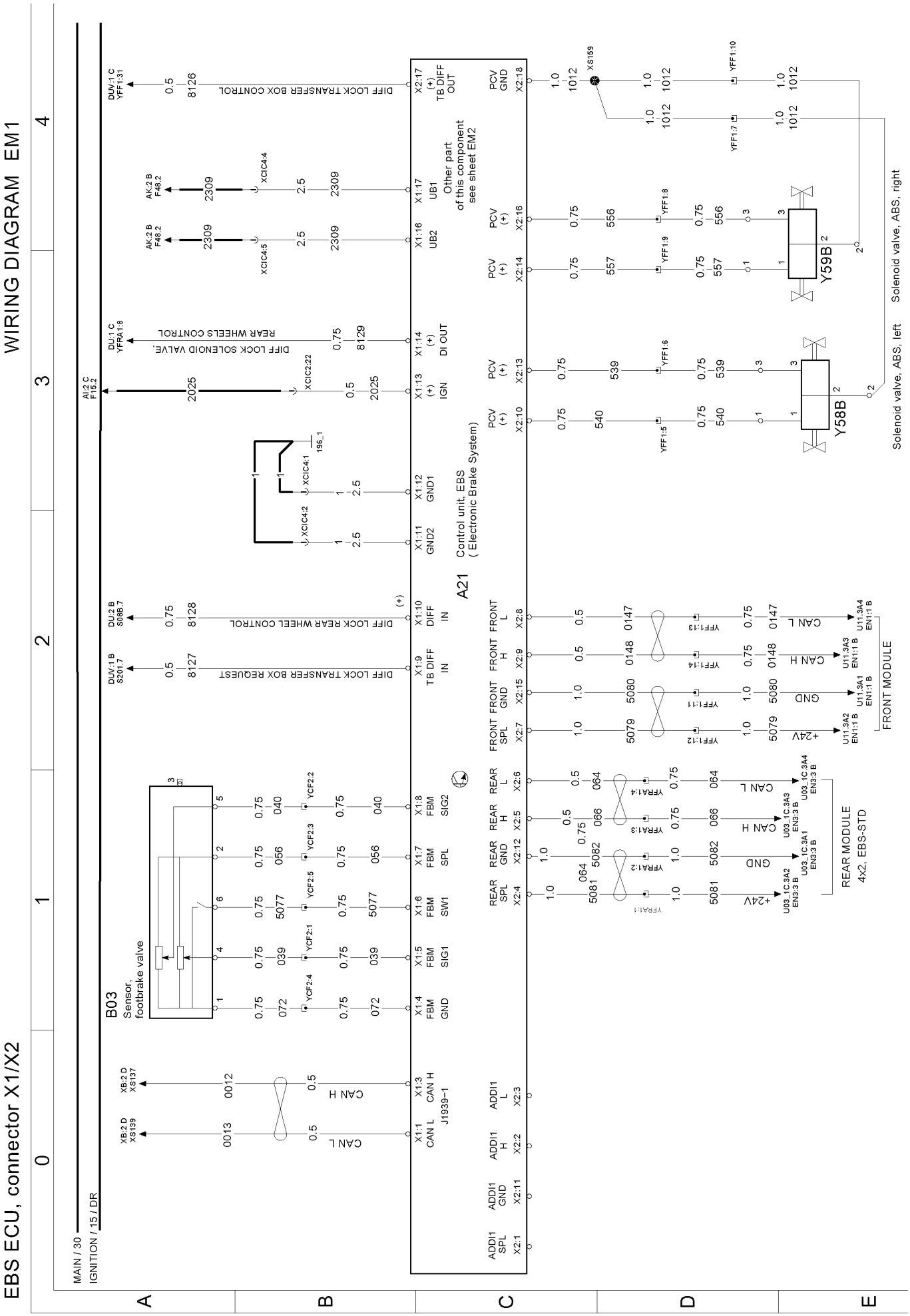
T3091961

Differential lock

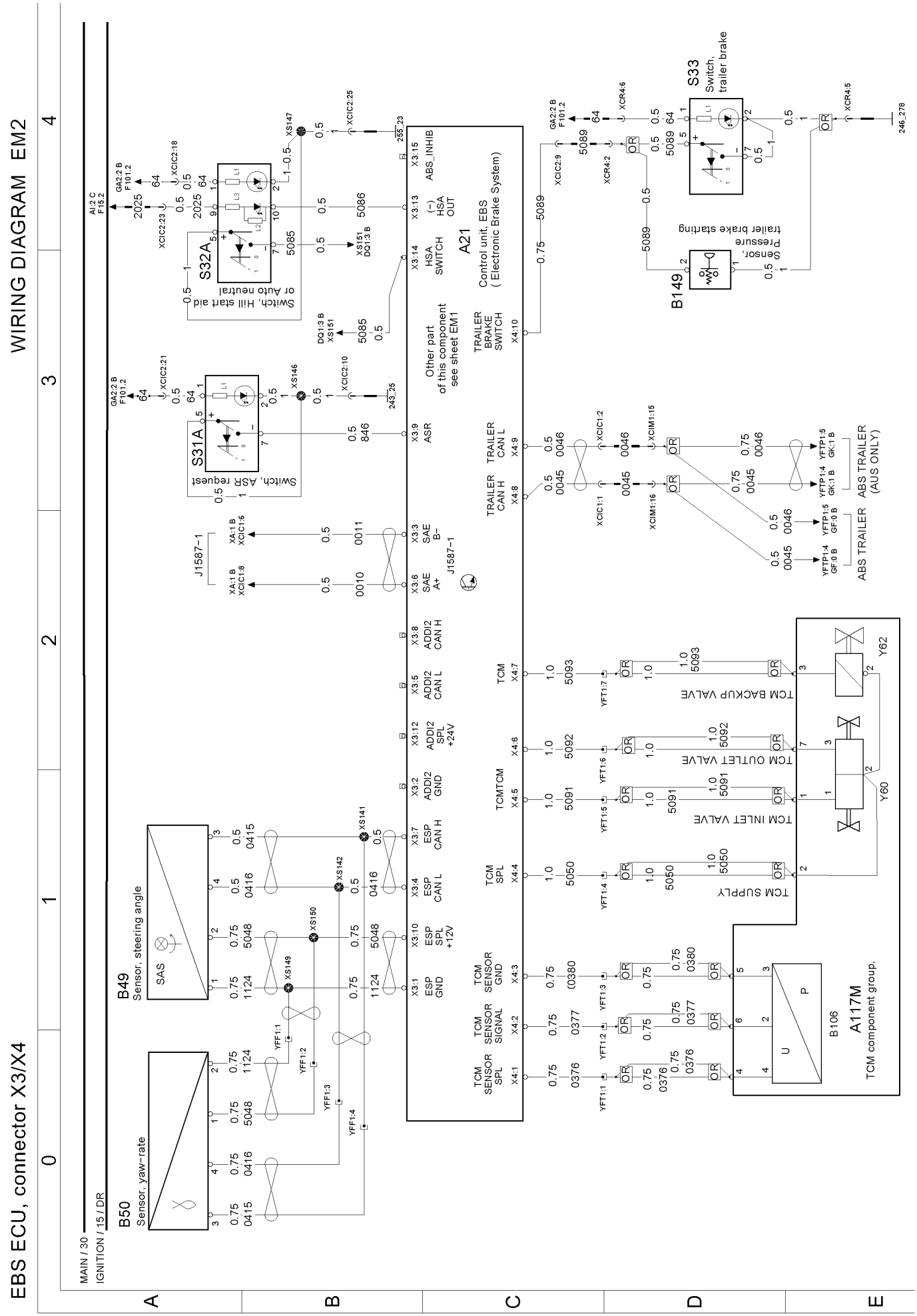


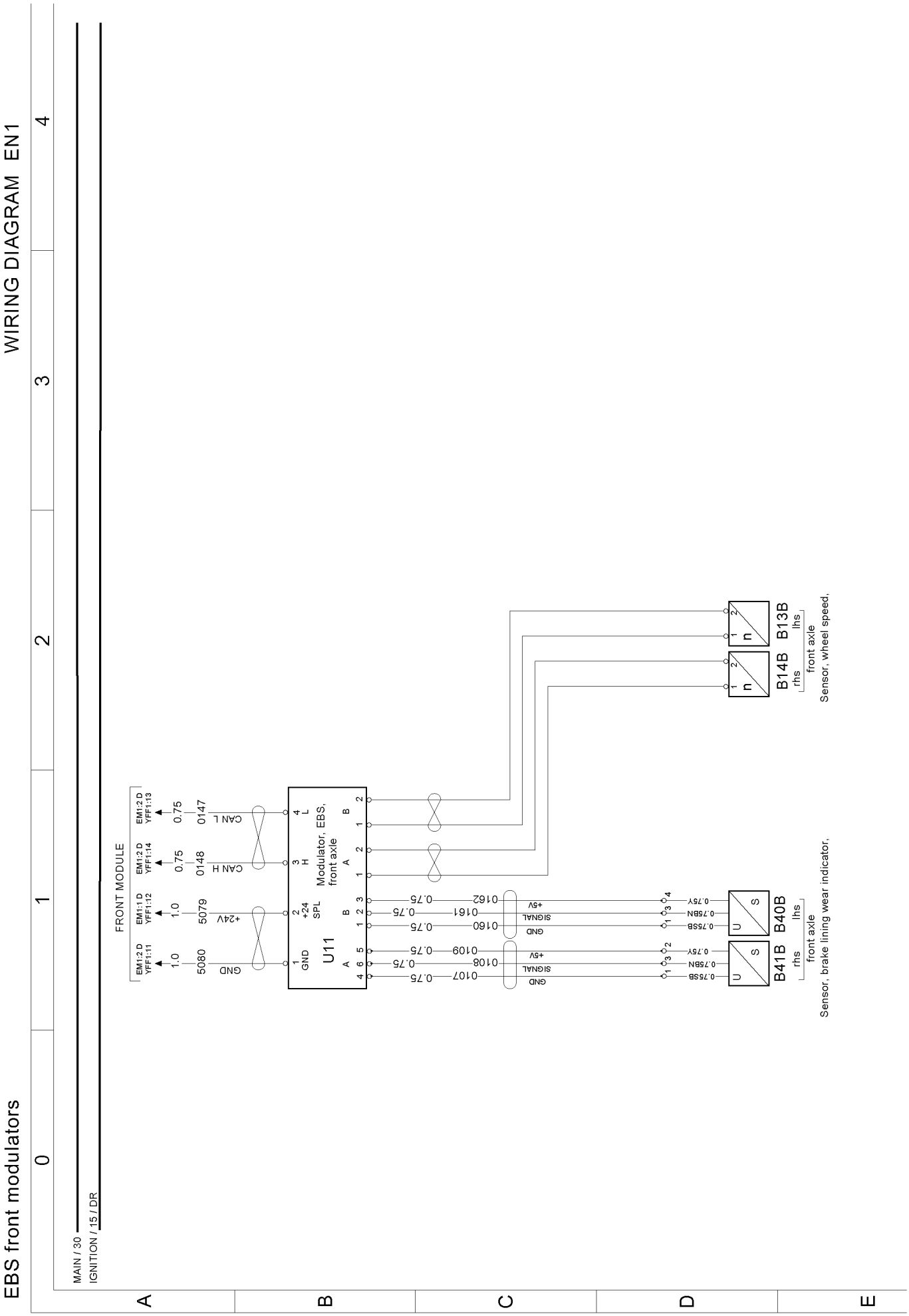


TYPE	FUNCTION	SWITCH	OUTPUT	FEEDBACK
AWD 4x4	REAR WHEEL: INDEPENDANT	S08B	Y02B	S45
	1?LOW RANGE (PV)/ HIGH RANGE (GV)	S63B	Y19B/Y20	S63
	2?FRONT AXLE	S18B	Y09B	S54
	TRANSFER BOX LOCK	S201	Y104	S53

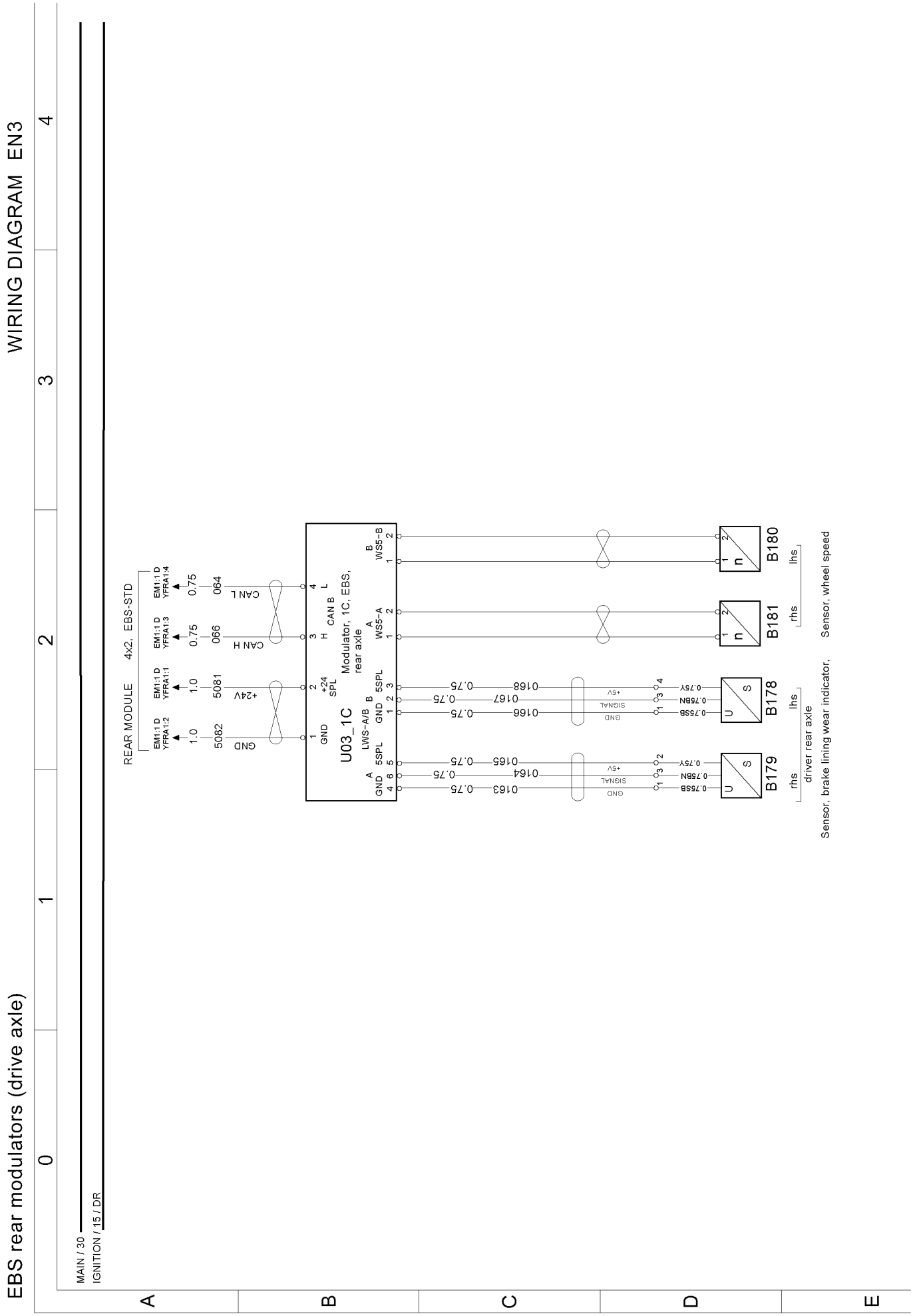

MAIN / 30
IGNITION / 15 / DR
B03
Sensor, footbrake valve
A21
Control unit, EBS
(Electronic Brake System)
DIFF LOCK TRANSFER BOX REQUEST
DIFF LOCK REAR WHEEL CONTROL
DIFF LOCK SOLENOID VALVE, REAR WHEELS CONTROL
DIFF LOCK TRANSFER BOX CONTROL
Other part of this component see sheet EM2
CAN L
CAN H
J1939-1
REAR MODULE
4x2, EBS-STD
FRONT MODULE
Y58B
Y59B
Solenoid valve, ABS, left
Solenoid valve, ABS, right

T3097256

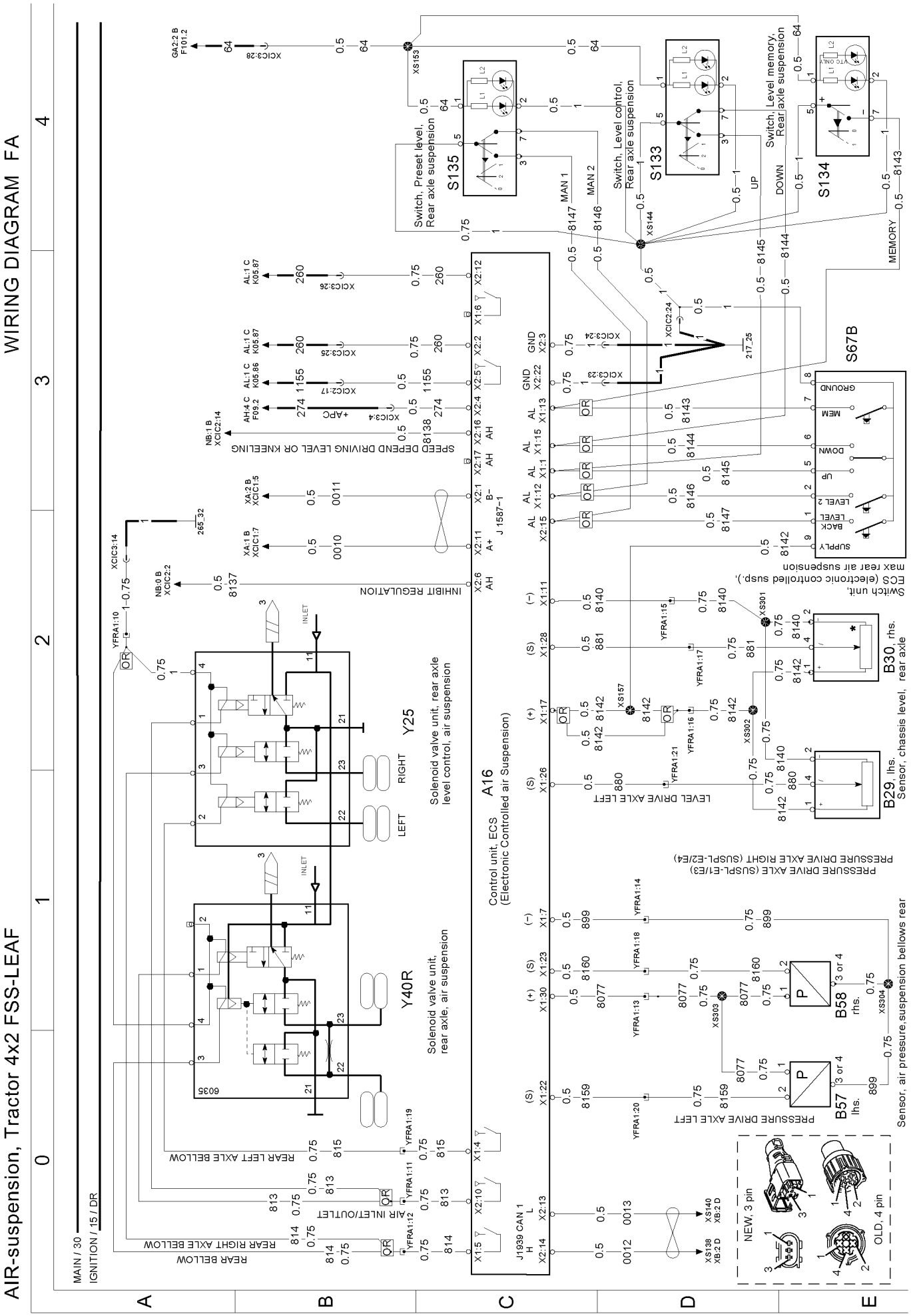

EBS ECU, connector X3/X4
WIRING DIAGRAM EM2
MAIN / 30
IGNITION / 15 / DR
B50
Sensor, yaw-rate
B49
Sensor, steering angle
SAS
S31A
Switch, ASR request
S32A
Switch, Hill start aid or Auto neutral
A21
Control unit, EBS (Electronic Brake System)
Other part of this component see sheet EM1
TRAILER BRAKE SWITCH
TRAILER CAN H
TRAILER CAN L
ABS TRAILER (AUS ONLY)
ABS TRAILER
B149
Sensor, trailer brake starting Pressure
S33
Switch, trailer brake
TCM SUPPLY
TCM INLET VALVE
TCM OUTLET VALVE
TCM BACKUP VALVE
Y60
Y62
B106
A117M
TCM component group.


0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
FRONT MODULE
EM1:2 D YFF1:11
EM1:1 D YFF1:12
EM1:2 D YFF1:14
EM1:2 D YFF1:13
1.0
1.0
0.75
0.75
5080
5079
0148
0147
GND
+24V
CAN H
CAN L
1 GND
2 +24 SPL
3 H
4 L
U11
Modulator, EBS, front axle
A
B
0.75
0162
0161
0160
0109
0108
0107
GND
SIGNAL
+5V
0.75SB
0.75BN
0.75Y
B41B
B40B
B14B
B13B
rhs
lhs
front axle
Sensor, brake lining wear indicator,
Sensor, wheel speed,
A
B
C
D
E

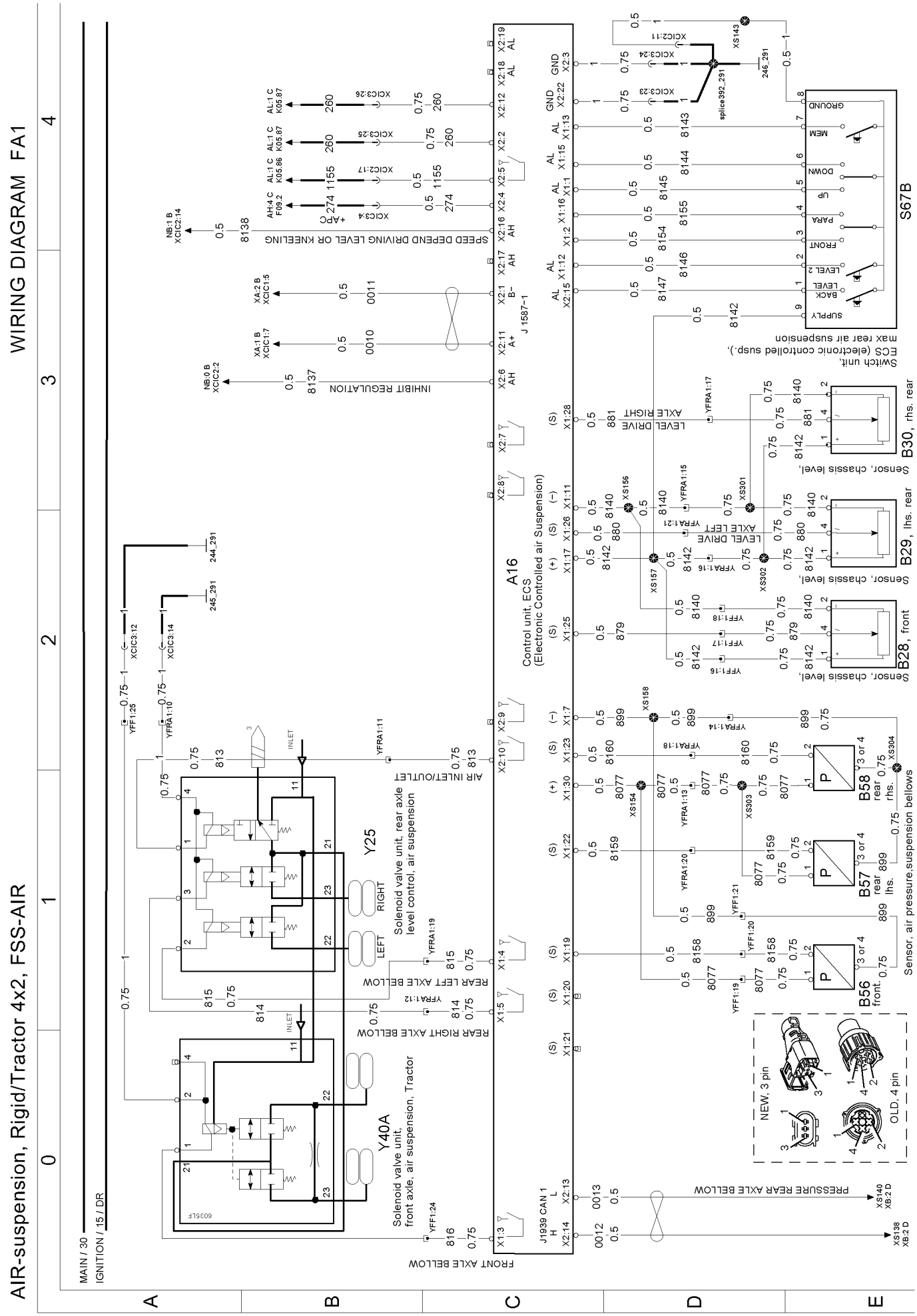
T3080853

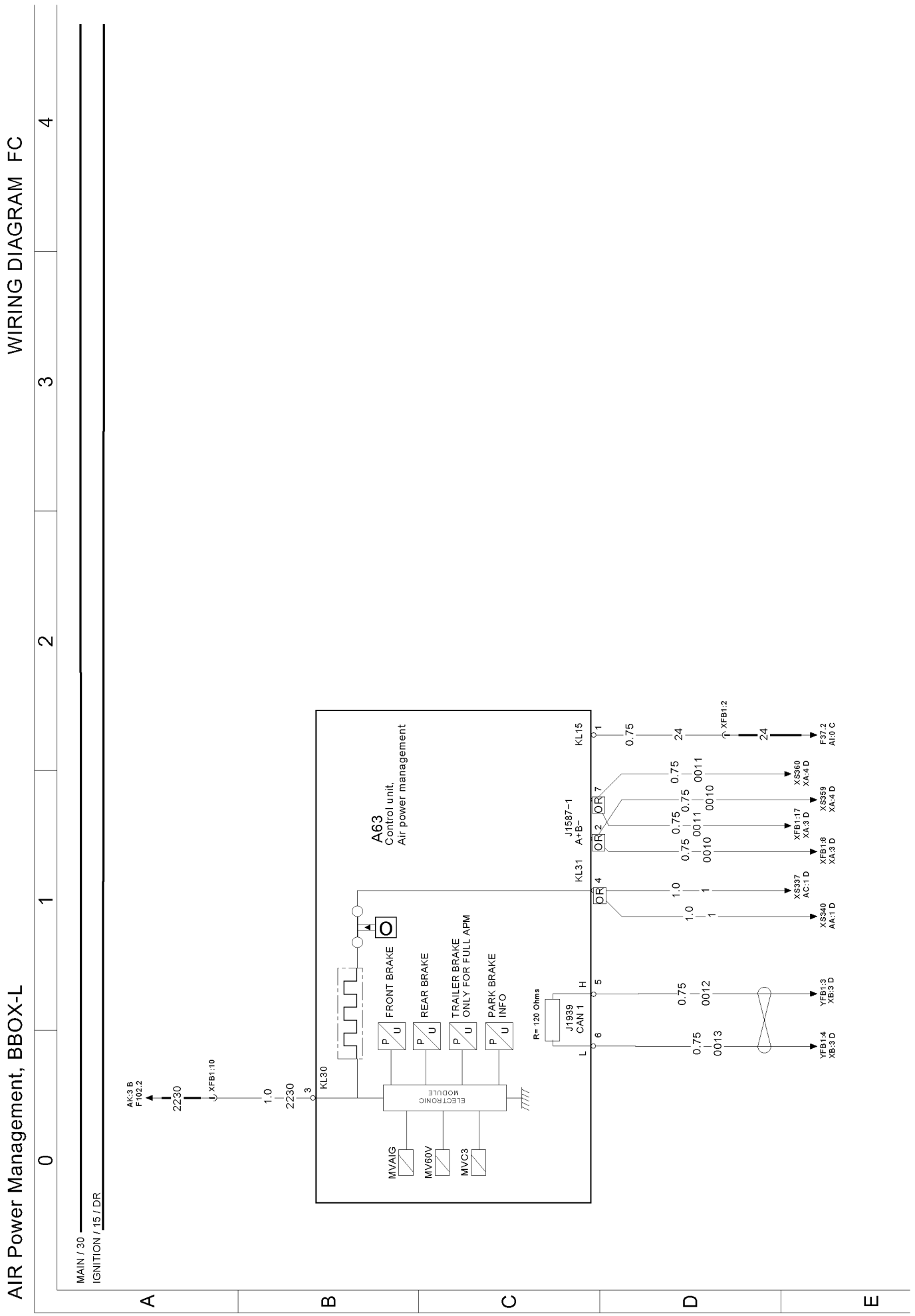

0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
REAR MODULE
4x2, EBS-STD
EM1:1 D YFRA1:2
EM1:1 D YFRA1:1
EM1:1 D YFRA1:3
EM1:1 D YFRA1:4
1,0
1,0
0,75
0,75
5082
5081
066
064
GND
+24V
CAN H
CAN L
U03_1C
Modulator, 1C, EBS, rear axle
GND
+24 SPL
H
CAN B
L
LWS-A/B
A
B
5SPL
GND
WS5-A
WS5-B
0163
0164
0165
0166
0167
0168
0,75
SIGNAL
+5V
0,75SB
0,75BN
0,75Y
B179
B178
B181
B180
rhs
lhs
driver rear axle
Sensor, brake lining wear indicator,
Sensor, wheel speed
A
B
C
D
E

T3084847

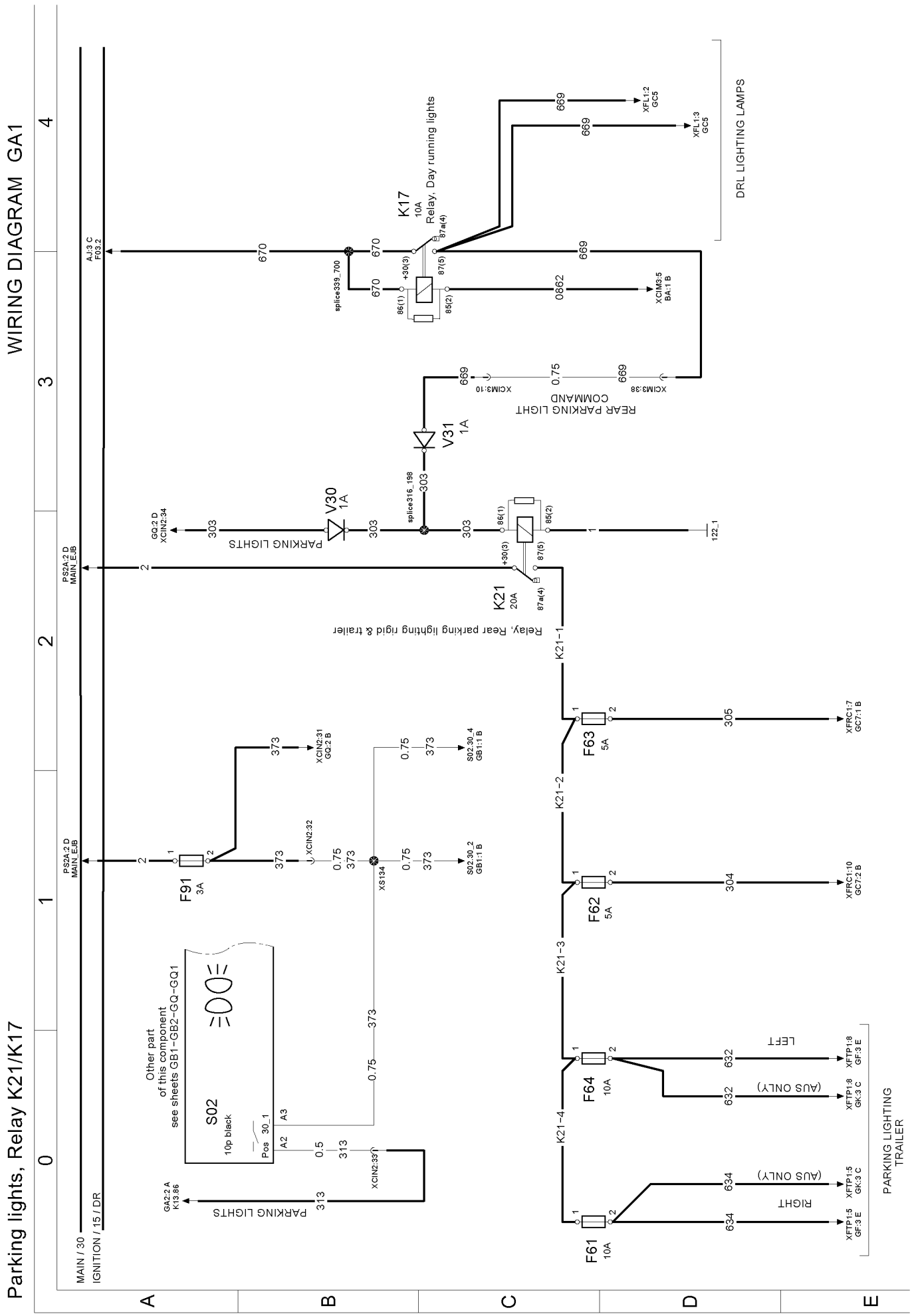

MAIN / 30
IGNITION / 15 / DR
Switch, Preset level, Rear axle suspension
S135
Switch, Level control, Rear axle suspension
S133
Switch, Level memory, Rear axle suspension
S134
S67B
Switch unit, ECS (electronic controlled susp.), max rear air suspension
SPEED DEPEND DRIVING LEVEL OR KNEELING
INHIBIT REGULATION
Y25
Solenoid valve unit, rear axle level control, air suspension
Y40R
Solenoid valve unit, rear axle, air suspension
A16
Control unit, ECS (Electronic Controlled air Suspension)
LEVEL DRIVE AXLE LEFT
PRESSURE DRIVE AXLE RIGHT (SUSPL-E2/E4)
PRESSURE DRIVE AXLE (SUSPL-E1/E3)
PRESSURE DRIVE AXLE LEFT
B30 rhs. rear axle
B29 lhs. Sensor, chassis level, rear axle
B58 rhs.
B57 lhs.
Sensor, air pressure,suspension bellows rear
REAR LEFT AXLE BELLOW
REAR RIGHT AXLE BELLOW
REAR BELLOW
AIR INLET/OUTLET
NEW, 3 pin
OLD, 4 pin

T3098319

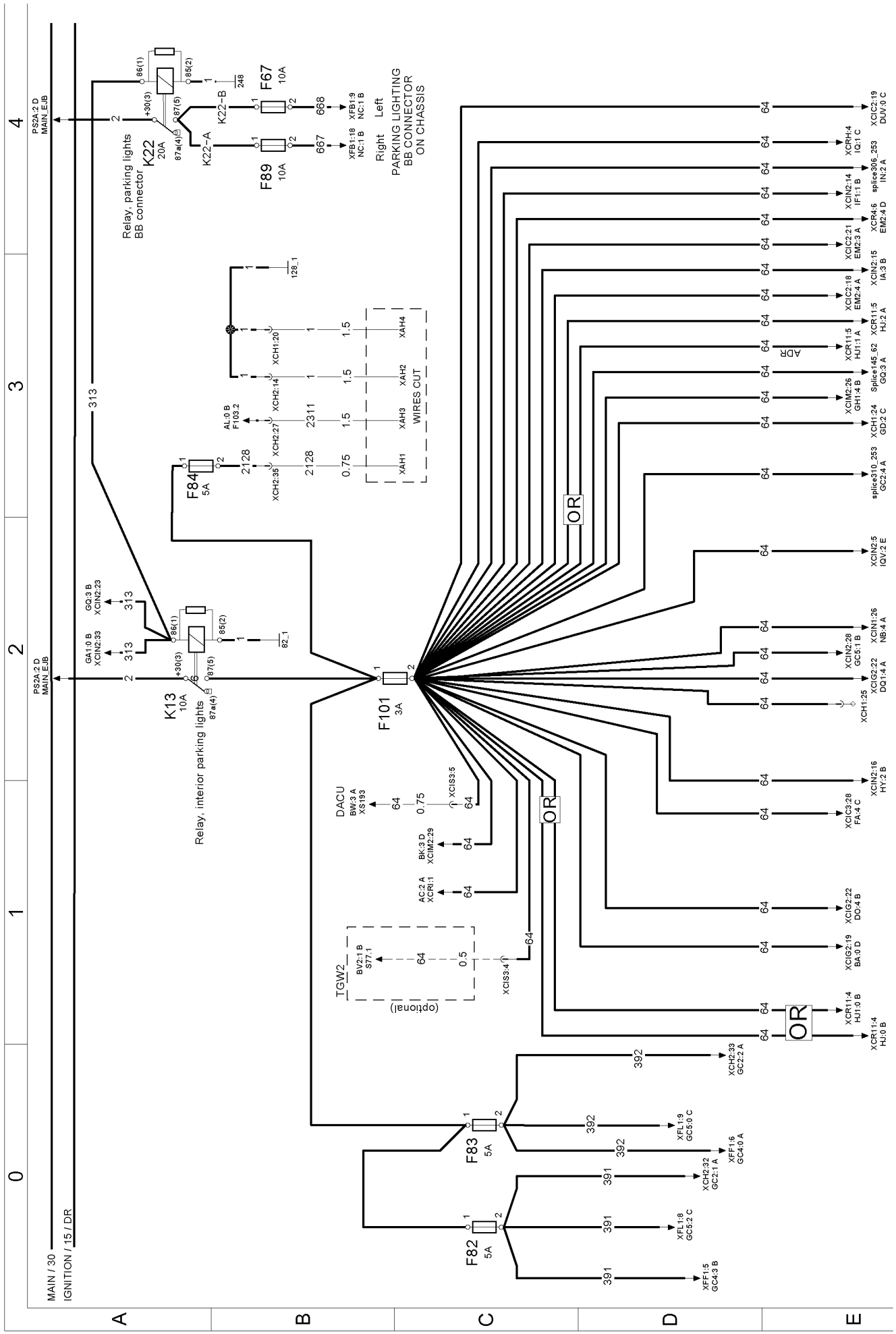

AIR-suspension, Rigid/Tractor 4x2, FSS-AIR
WIRING DIAGRAM FA1
MAIN / 30
IGNITION / 15 / DR
A16
Control unit, ECS
(Electronic Controlled air Suspension)
Y25
Solenoid valve unit, rear axle
level control, air suspension
Y40A
Solenoid valve unit,
front axle, air suspension, Tractor
FRONT AXLE BELLOW
REAR RIGHT AXLE BELLOW
REAR LEFT AXLE BELLOW
AIR INLET/OUTLET
INHIBIT REGULATION
SPEED DEPEND DRIVING LEVEL OR KNEELING
J 1587-1
J1939 CAN 1
PRESSURE REAR AXLE BELLOW
LEVEL DRIVE AXLE RIGHT
LEVEL DRIVE AXLE LEFT
S67B
Switch unit,
ECS (electronic controlled susp.),
max rear air suspension
B28, front
B29, lhs. rear
B30, rhs. rear
Sensor, chassis level,
B56 front.
B57 rear lhs.
B58 rear rhs.
Sensor, air pressure,suspension bellows
NEW, 3 pin
OLD, 4 pin


0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
AK:3 B
F102.2
2230
XFB1:10
1.0
2230
3
KL30
A63
Control unit,
Air power management
ELECTRONIC MODULE
MVAIG
MV60V
MVC3
P
U
FRONT BRAKE
REAR BRAKE
TRAILER BRAKE
ONLY FOR FULL APM
PARK BRAKE
INFO
R= 120 Ohms
J1939
CAN 1
L
H
5
6
0.75
0012
0013
YFB1:4
XB:3 D
YFB1:3
XB:3 D
KL31
4
OR
1.0
1
XS337
AC:1 D
XS340
AA:1 D
J1587-1
A+B-
2
7
0.75
0010
0011
XFB1:8
XA:3 D
XFB1:17
XA:3 D
XS359
XA:4 D
XS360
XA:4 D
KL15
1
24
XFB1:2
F37:2
AI:0 C

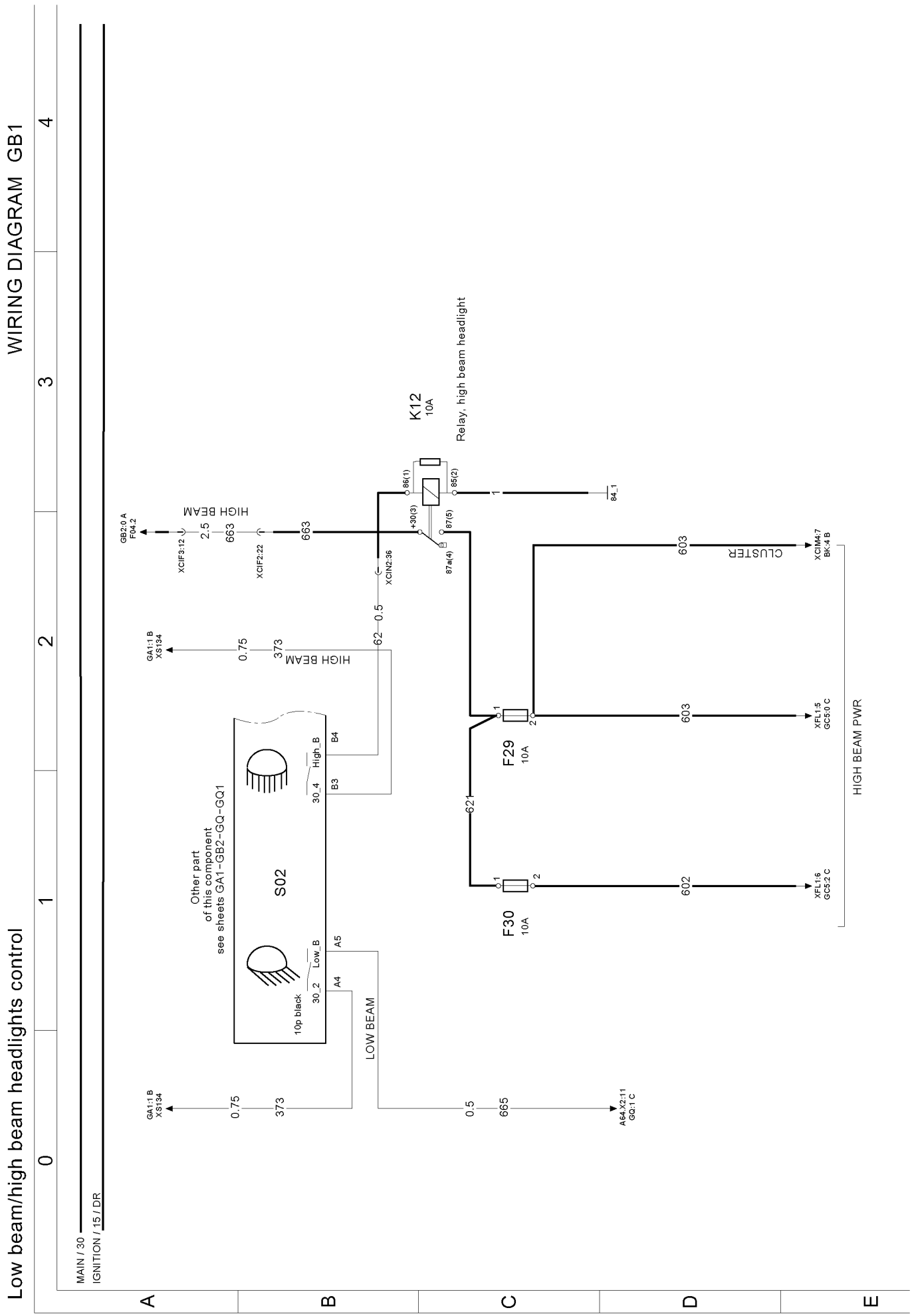
T3084200


WIRING DIAGRAM GA1
Parking lights, Relay K21/K17
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D MAIN_EJB
A-I:3 C F03:2
GA2:2 A K13:86
GQ:2 D XCIN2:34
PARKING LIGHTS
F91 3A
S02 10p black
Other part of this component see sheets GB1-GB2-GQ-GQ1
Pos 30_1
A2
A3
XCIN2:33
XCIN2:32
XCIN2:31 GQ:2 B
XS134
S02.30_2 GB1:1 B
S02.30_4 GB1:1 B
splice339_700
splice316_198
V30 1A
V31 1A
K17 10A Relay, Day running lights
K21 20A Relay, Rear parking lighting rigid & trailer
86(1)
85(2)
+30(3)
87(5)
87a(4)
XCIM3:10
XCIM3:38
REAR PARKING LIGHT COMMAND
XCIM3:5 BA:1 B
XFL1:2 GC5
XFL1:3 GC5
DRL LIGHTING LAMPS
122_1
K21-1
K21-2
K21-3
K21-4
F63 5A
F62 5A
F64 10A
F61 10A
XFRC1:7 GC7:1 B
XFRC1:10 GC7:2 B
LEFT
RIGHT
(AUS ONLY)
XFTP1:8 GF:3 E
XFTP1:8 GK:3 C
XFTP1:5 GK:3 C
XFTP1:5 GF:3 E
PARKING LIGHTING TRAILER
T3084201

Parking lights, Relay K13/K22

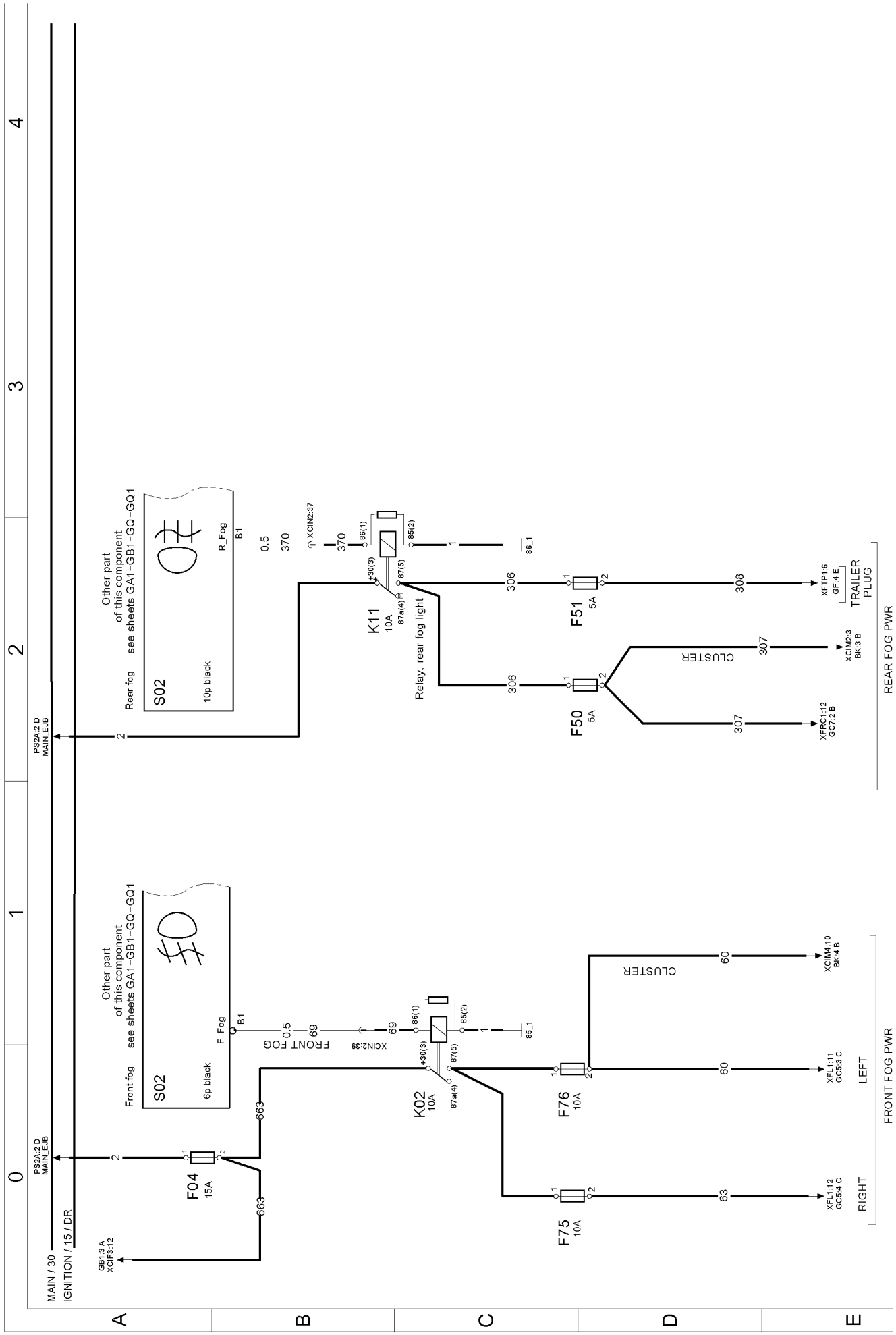


T3098617

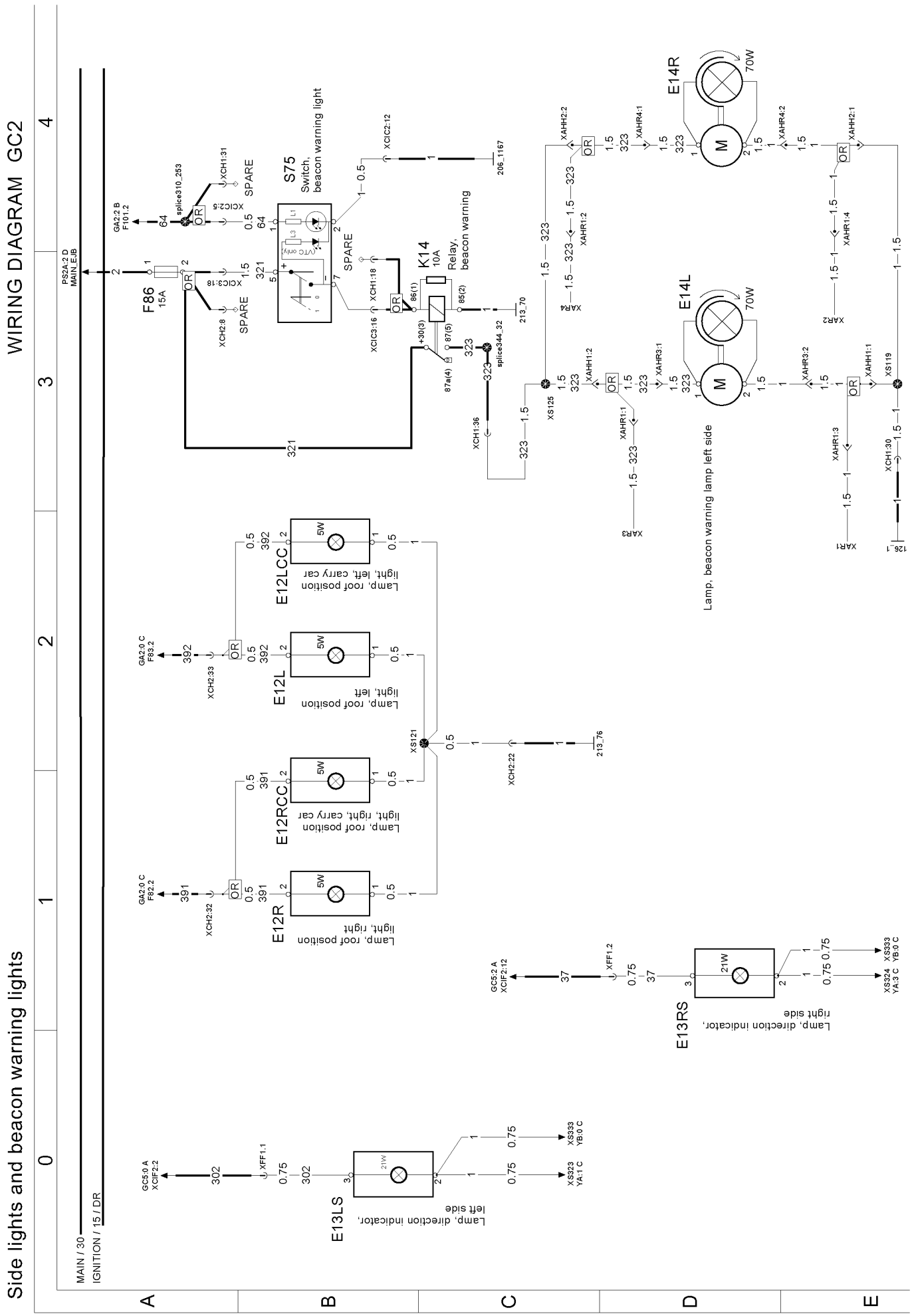

WIRING DIAGRAM GB1
Low beam/high beam headlights control
MAIN / 30
IGNITION / 15 / DR
HIGH BEAM
GB2:0 A
F04:2
XCIF3:12
2.5
663
XCIF2:22
663
XCIN2:36
0.5
62
K12
10A
Relay, high beam headlight
86(1)
85(2)
+30(3)
87(5)
87a(4)
1
84_1
603
CLUSTER
XCIM4:7
BK:4 B
GA1:1 B
XS134
0.75
373
HIGH BEAM
F29
10A
603
XFL1:5
GC5:0 C
HIGH BEAM PWR
621
F30
10A
602
XFL1:6
GC5:2 C
Other part
of this component
see sheets GA1-GB2-GQ-GQ1
S02
10p black
High_B
Low_B
30_4
30_2
B4
B3
A5
A4
LOW BEAM
GA1:1 B
XS134
0.75
373
0.5
665
A64.X2:11
GQ:1 C

T3080864

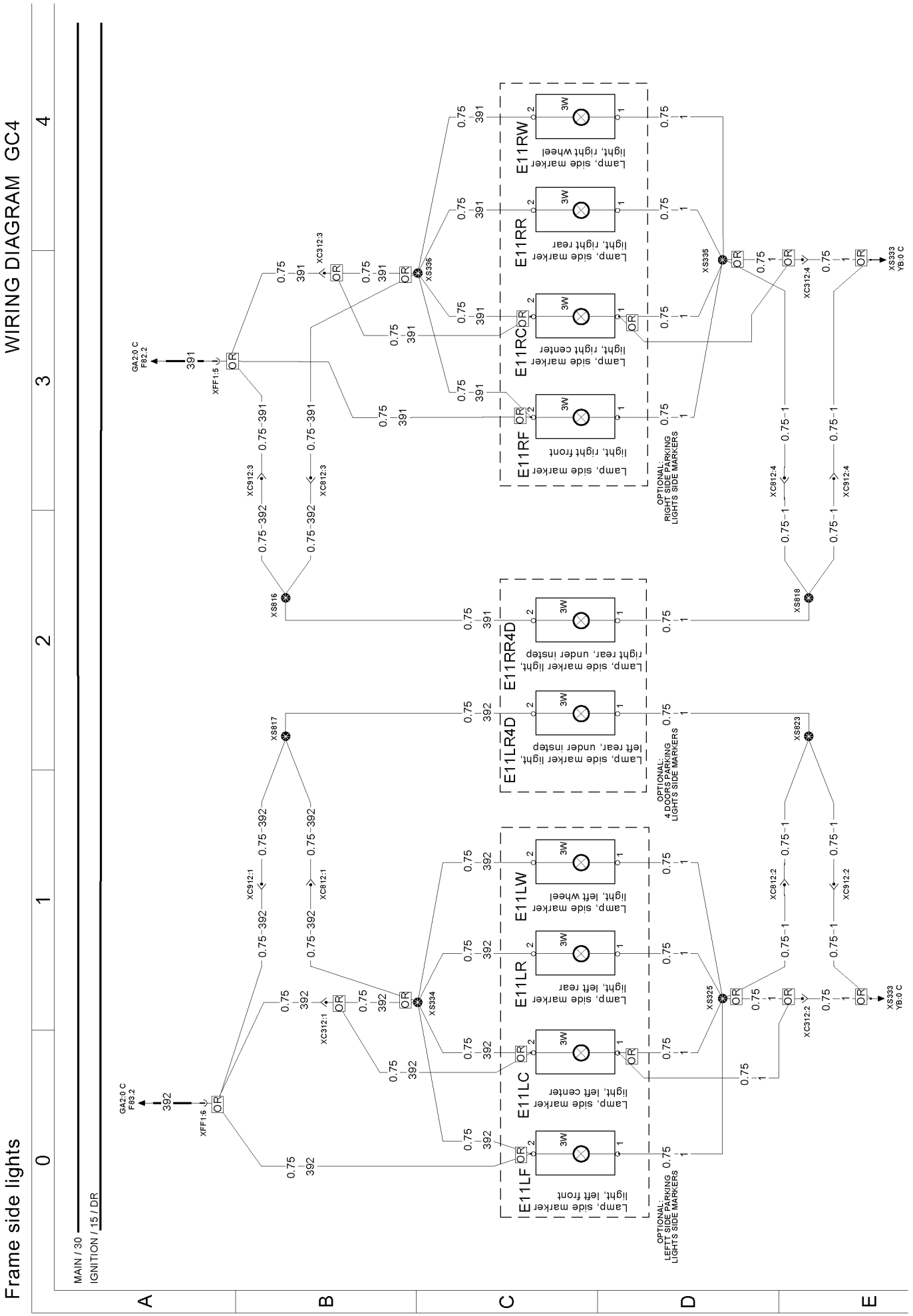
Fog lights control



T3093363

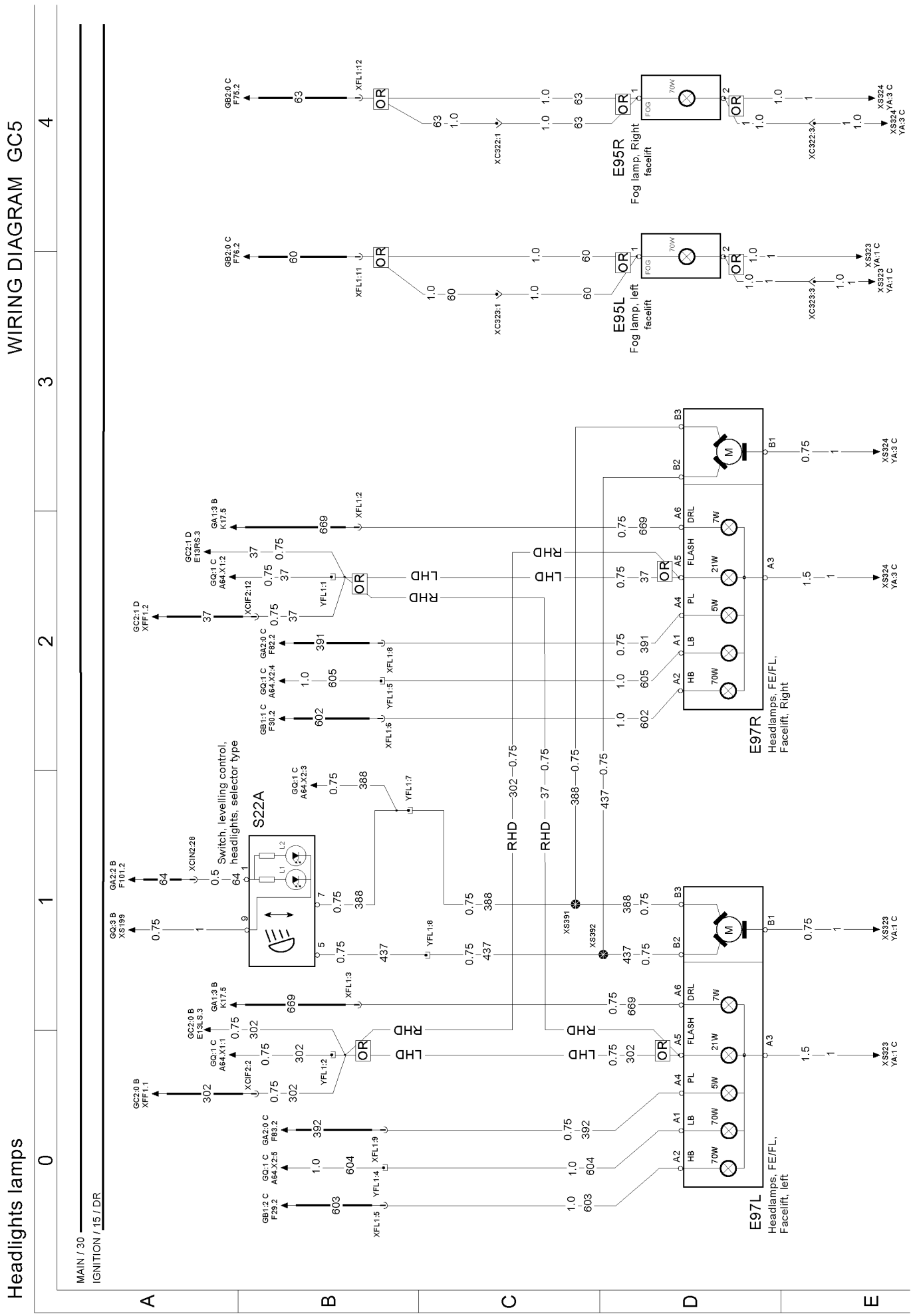

WIRING DIAGRAM GC2
Side lights and beacon warning lights
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D
MAIN E:B
F86
15A
GA2:2 B
F101.2
splice310_253
XCIC2:8
XCIC3:18
XCH2:8
SPARE
XCH1:31
S75
Switch,
beacon warning light
XCIC2:12
206_1167
K14
10A
Relay,
beacon warning
XCH1:18
XCIC3:16
213_70
splice344_32
XCH1:36
XS125
XAHH2:2
XAHR4:1
XAHR1:2
XAHR4
XAHR3
XAHH1:2
XAHR1:1
XAHR3:1
E14R
E14L
70W
Lamp, beacon warning lamp left side
XAHR4:2
XAHH2:1
XAHR1:4
XAHR2
XAHR3:2
XAHH1:1
XAHR1:3
XAHR1
XS119
XCH1:30
126_1
GA2:0 C
F83.2
XCH2:33
E12L
Lamp, roof position
light, left
E12LCC
Lamp, roof position
light, left, carry car
XS121
XCH2:22
213_76
GA2:0 C
F82.2
XCH2:32
E12R
Lamp, roof position
light, right
E12RCC
Lamp, roof position
light, right, carry car
GC5:2 A
XCIF2:12
XFF1.2
E13RS
Lamp, direction indicator,
right side
XS324
YA:3 C
XS333
YB:0 C
GC5:0 A
XCIF2:2
XFF1.1
E13LS
Lamp, direction indicator,
left side
XS323
YA:1 C
XS333
YB:0 C

T3086343


MAIN / 30
IGNITION / 15 / DR
0
1
2
3
4
A
B
C
D
E
GA2:0 C
F83.2
392
XFF1:6
OR
0.75
392
XC912:1
XC812:1
XC312:1
XS817
XS334
XS816
XS336
XS325
XS823
XS818
XS335
XC312:2
XC912:2
XC812:2
XC812:4
XC912:4
XC312:4
XS333
YB:0 C
E11LF
E11LC
E11LR
E11LW
E11LR4D
E11RR4D
E11RF
E11RC
E11RR
E11RW
Lamp, side marker light, left front
Lamp, side marker light, left center
Lamp, side marker light, left rear
Lamp, side marker light, left wheel
Lamp, side marker light, left rear, under instep
Lamp, side marker light, right rear, under instep
Lamp, side marker light, right front
Lamp, side marker light, right center
Lamp, side marker light, right rear
Lamp, side marker light, right wheel
3W
OPTIONAL:
LEFT SIDE PARKING
LIGHTS SIDE MARKERS
OPTIONAL:
4 DOORS PARKING
LIGHTS SIDE MARKERS
OPTIONAL:
RIGHT SIDE PARKING
LIGHTS SIDE MARKERS
GA2:0 C
F82.2
391
XFF1:5
XC912:3
XC812:3
XC312:3

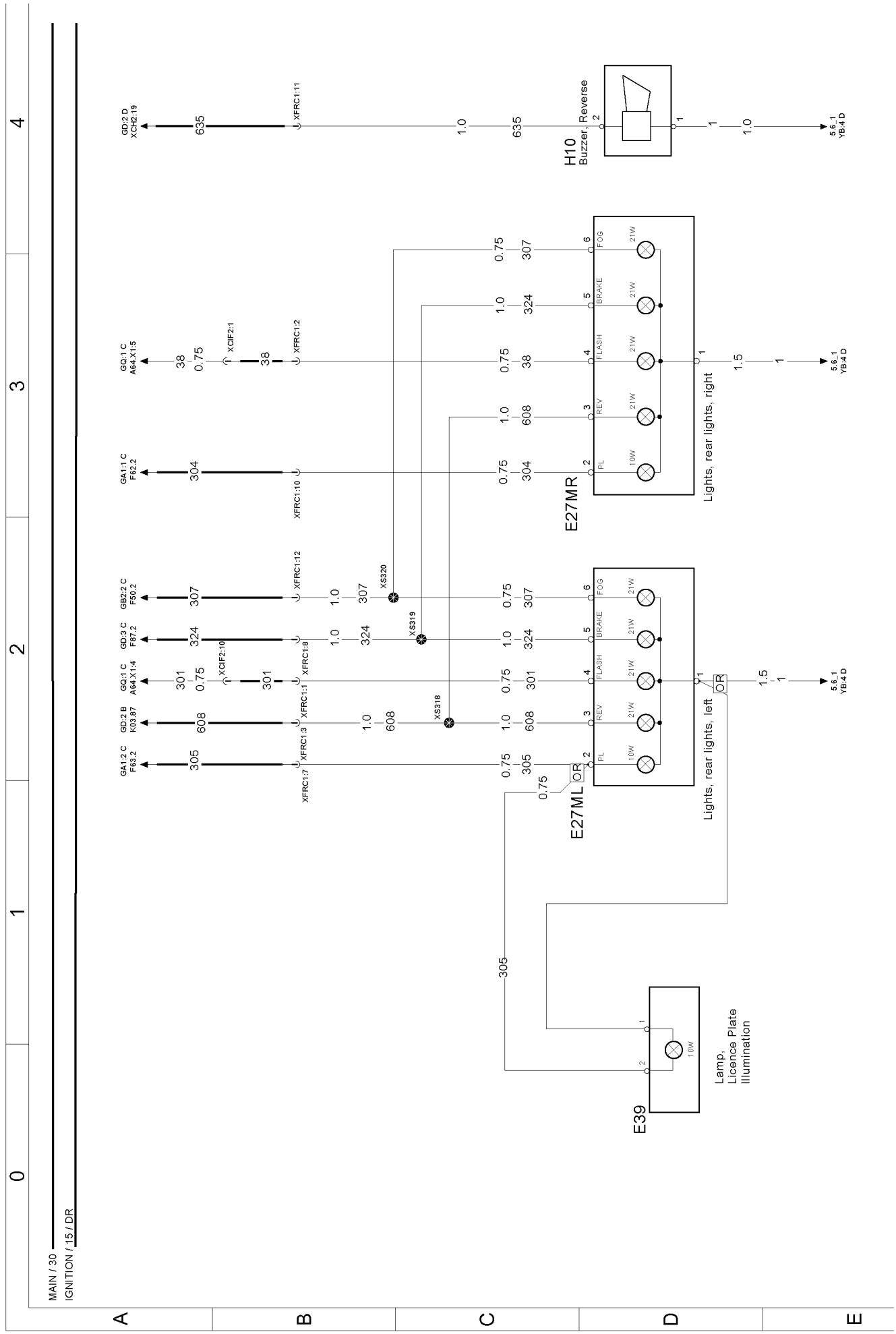
T3089924

Headlights lamps

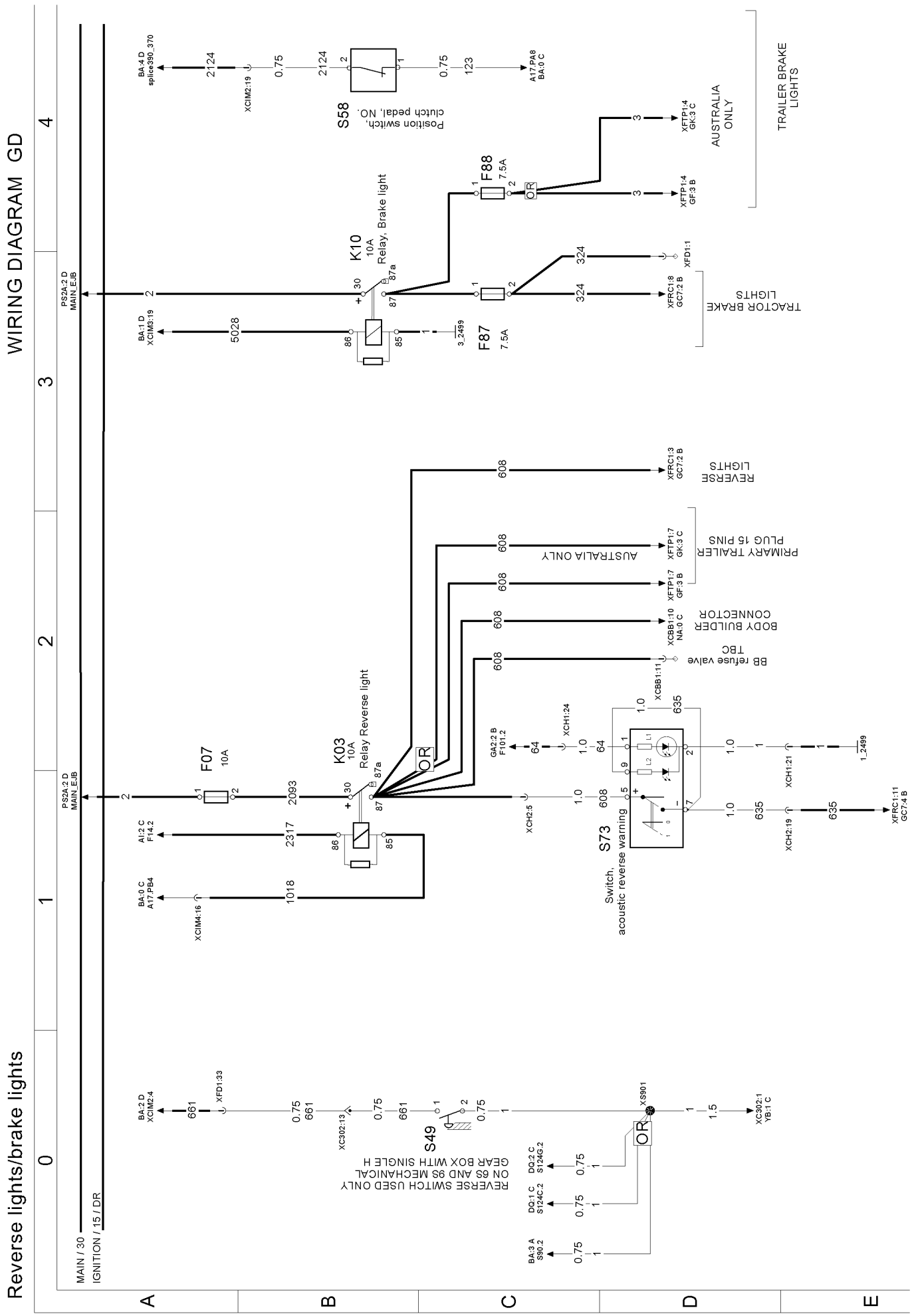


T3086342

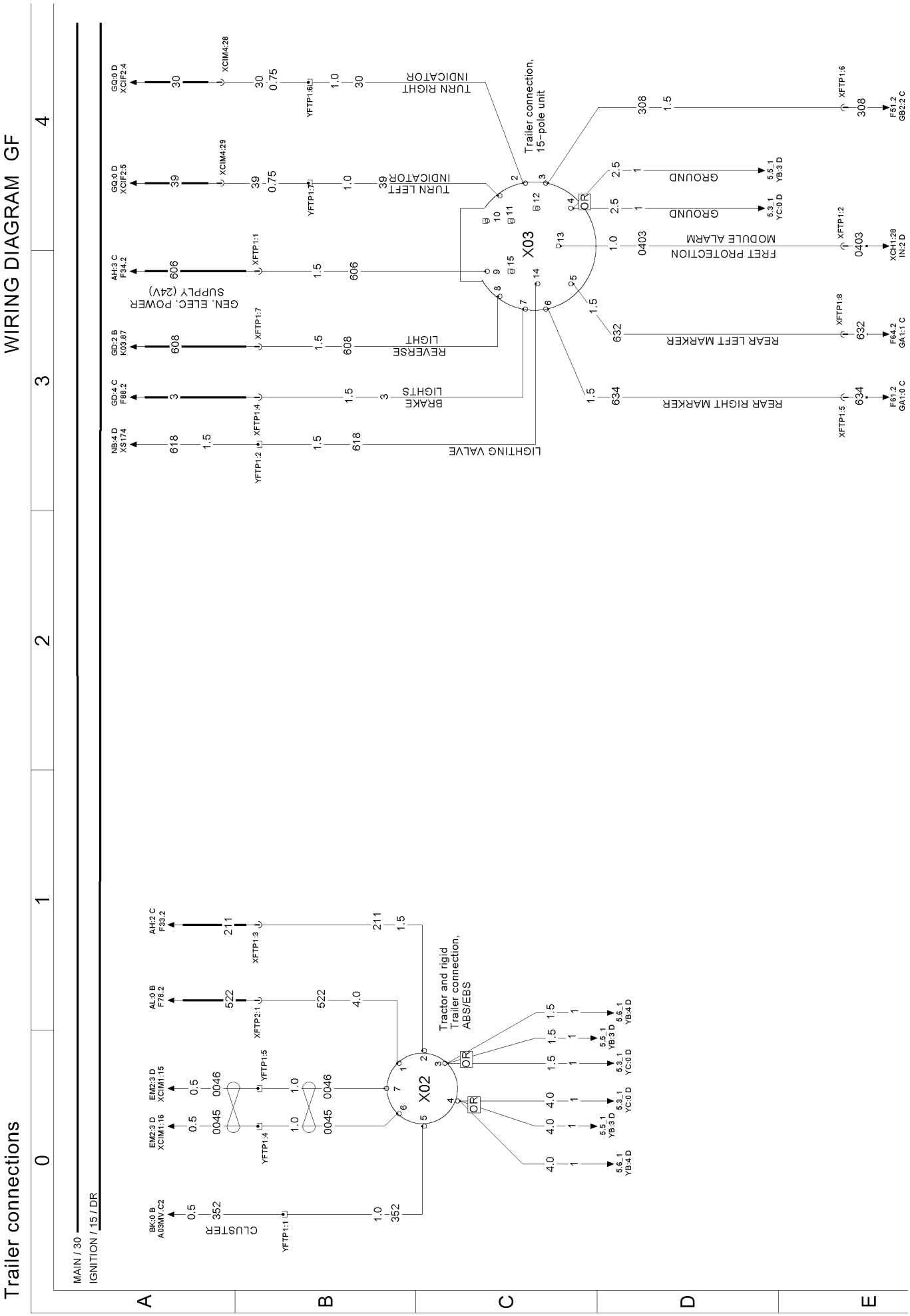
WIRING DIAGRAM GC7

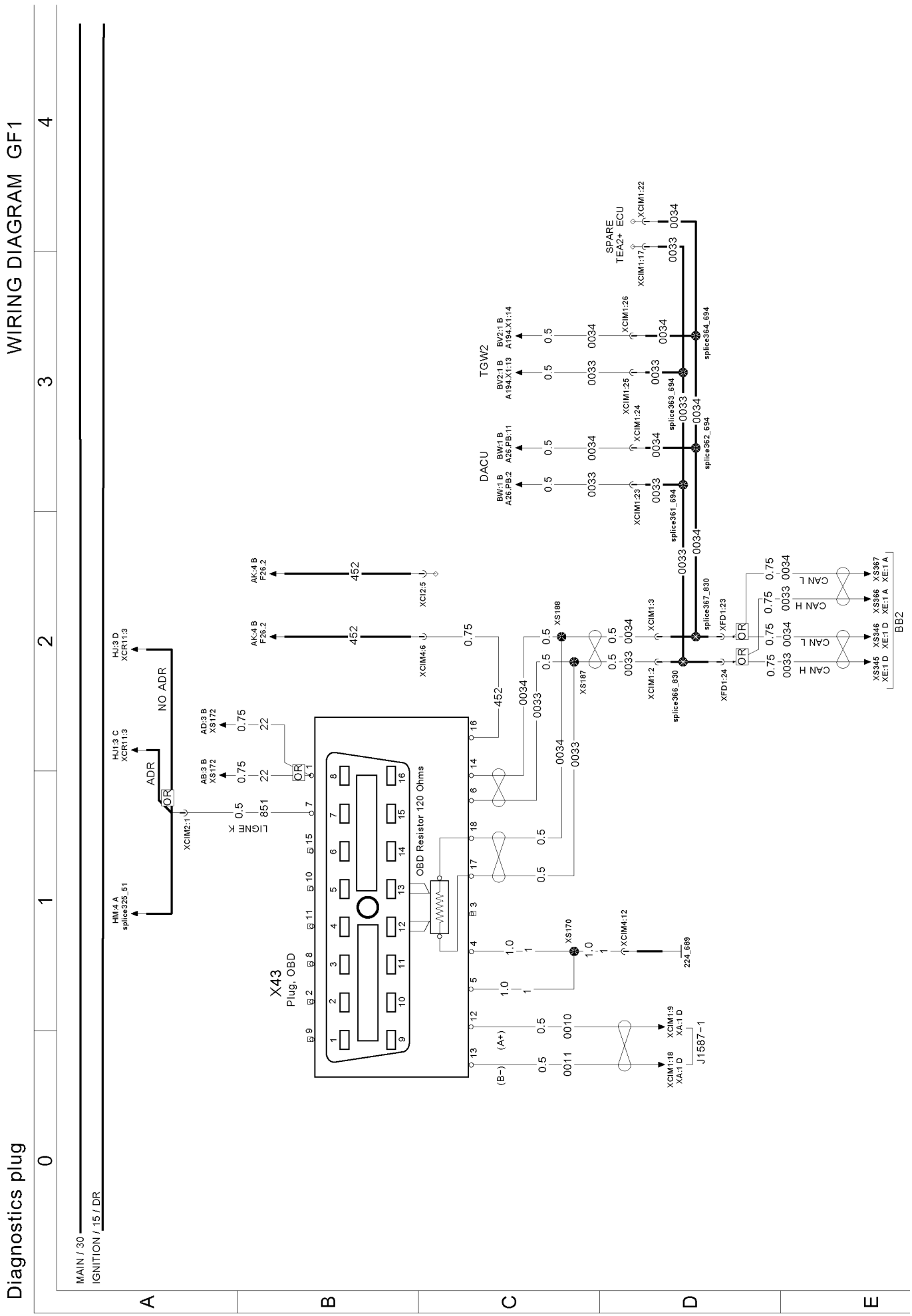


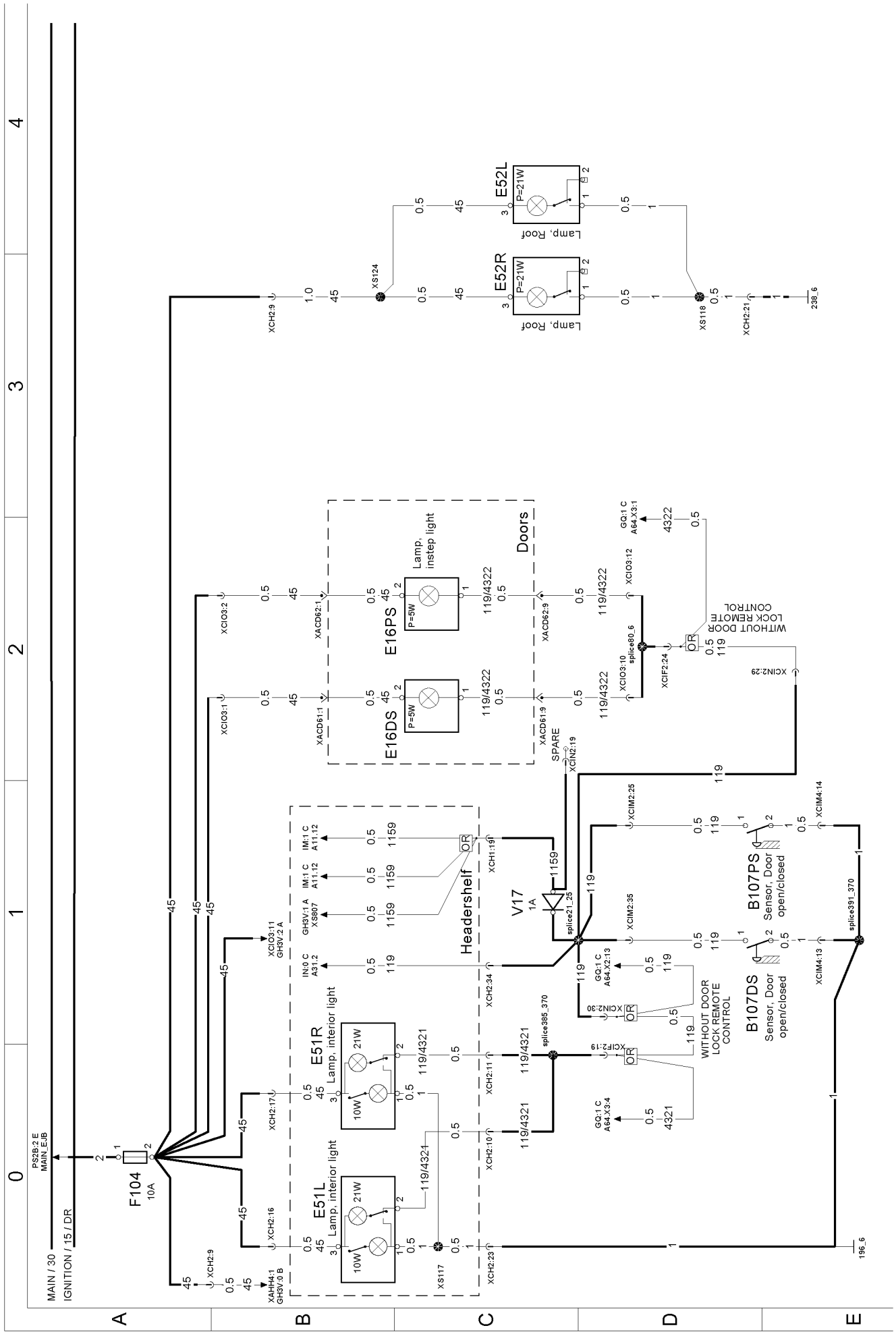
T3084848

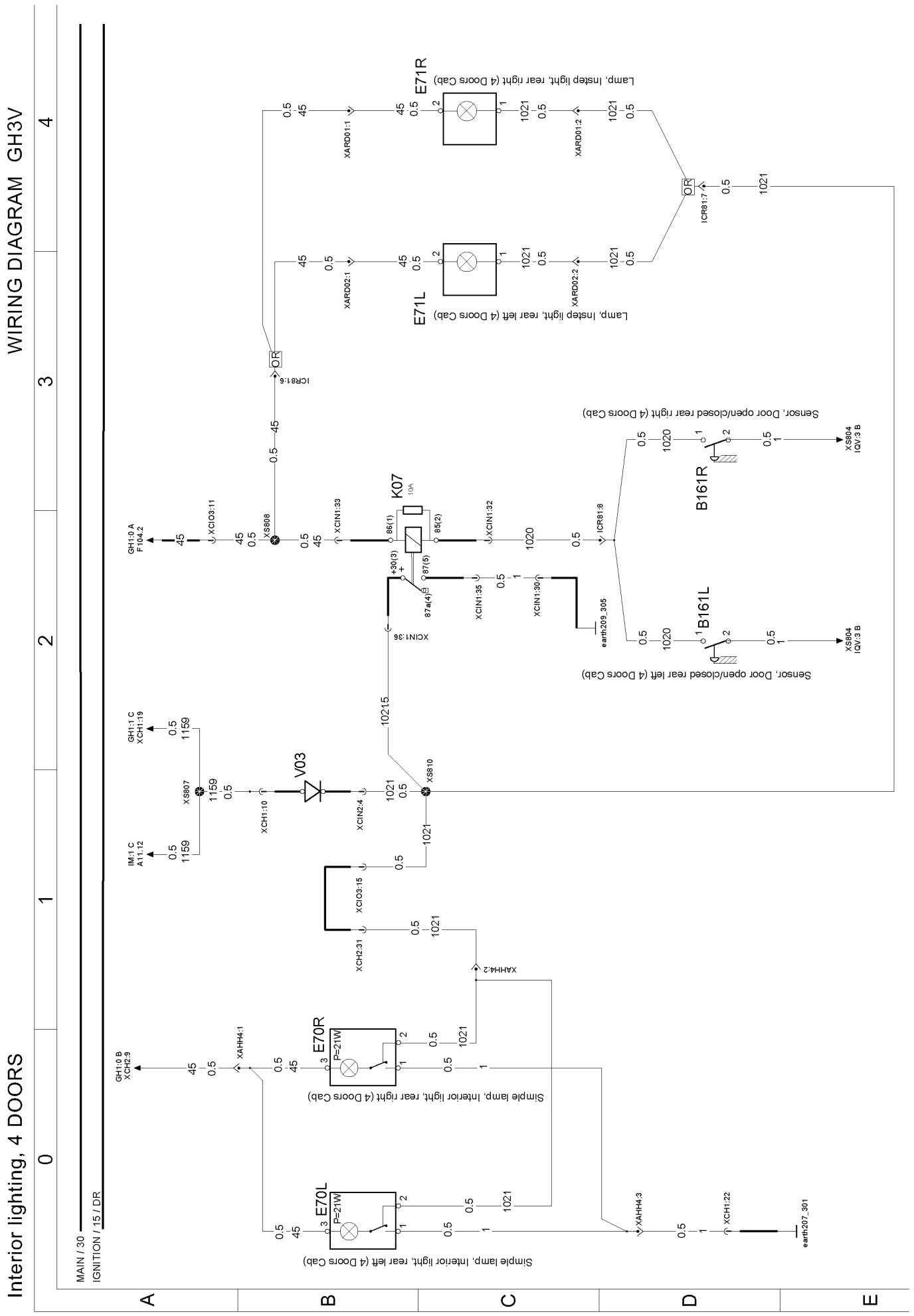

WIRING DIAGRAM GD
Reverse lights/brake lights
MAIN / 30
IGNITION / 15 / DR
PS2A:2 D MAIN_E3B
BA:2 D XCIM2:4
XFD1:33
661
0.75
XC302:13
S49
REVERSE SWITCH USED ONLY ON 6S AND 9S MECHANICAL GEAR BOX WITH SINGLE H
DQ:2 C S124G:2
DQ:1 C S124C:2
BA:3 A S90:2
XS901
XC302:1 YB:1 C
1.5
BA:0 C A17.PB4
XCIM4:16
1018
AI:2 C F14.2
2317
F07
10A
2093
K03
10A
Relay Reverse light
87a
OR
XCH2:5
GA2:2 B F101:2
64
XCH1:24
1.0
608
S73
Switch, acoustic reverse warning
635
XCH2:19
XCH1:21
1_2499
XFRC1:11 GC7:4 B
XCBB1:11
BB refuse valve
TBC
XCBB1:10 NA:10 C
BODY BUILDER CONNECTOR
XFTP1:7 GF:3 B
XFTP1:7 GK:3 C
AUSTRALIA ONLY
PRIMARY TRAILER PLUG 15 PINS
XFRC1:3 GC7:2 B
REVERSE LIGHTS
BA:1 D XCIM3:19
5028
K10
10A
Relay, Brake light
3_2499
F87
7.5A
F88
7.5A
324
XFD1:1
XFRC1:8 GC7:2 B
TRACTOR BRAKE LIGHTS
XFTP1:4 GF:3 B
XFTP1:4 GK:3 C
AUSTRALIA ONLY
TRAILER BRAKE LIGHTS
BA:4 D splice390_370
2124
XCIM2:19
S58
Position switch, clutch pedal, NO.
123
A17.PA8 BA:0 C
A
B
C
D
E
0
1
2
3
4

T3086178

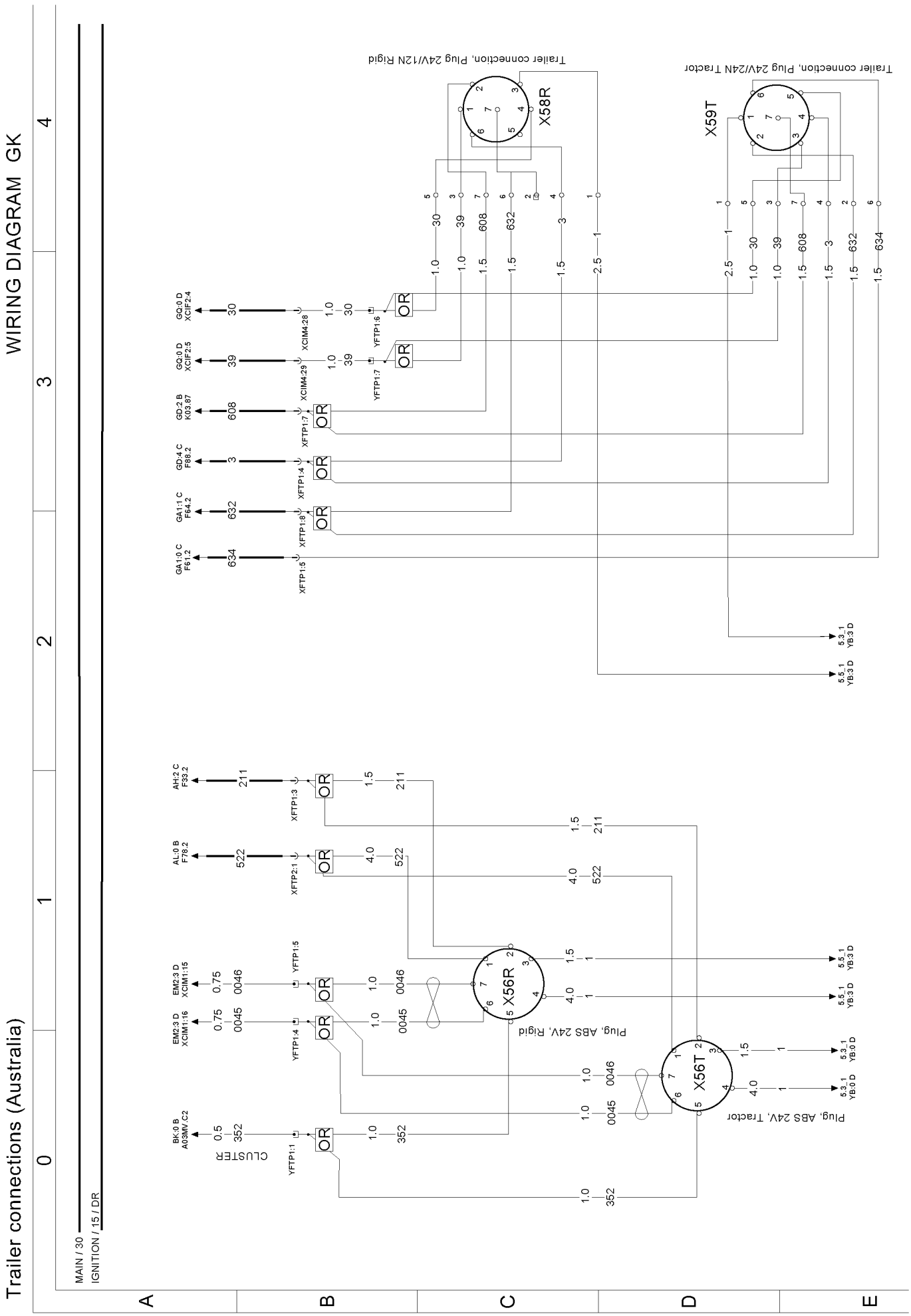

WIRING DIAGRAM GF
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
BK:0 B A03MV.C2
EM2:3 D XCIM1:16
EM2:3 D XCIM1:15
AL:0 B F78.2
AH:2 C F33.2
CLUSTER
YFTP1:1
YFTP1:4
YFTP1:5
XFTP2:1
XFTP1:3
X02
Tractor and rigid
Trailer connection,
ABS/EBS
OR
5.6.1 YB:4 D
5.5.1 YB:3 D
5.3.1 YC:0 D
NB:4 D XS174
GD:4 C F88.2
GD:2 B K03.87
AH:3 C F34.2
GQ:0 D XCIF2:5
GQ:0 D XCIF2:4
GEN. ELEC. POWER
SUPPLY (24V)
XFTP1:2
XFTP1:4
XFTP1:7
XFTP1:1
YFTP1:2
YFTP1:7
YFTP1:6
XCIM4:29
XCIM4:28
LIGHTING VALVE
BRAKE
LIGHTS
REVERSE
LIGHT
TURN LEFT
INDICATOR
TURN RIGHT
INDICATOR
X03
Trailer connection,
15-pole unit
REAR RIGHT MARKER
REAR LEFT MARKER
FRET PROTECTION
MODULE ALARM
GROUND
GROUND
XFTP1:5
XFTP1:8
XFTP1:2
XFTP1:6
F61.2 GA1:0 C
F64.2 GA1:1 C
XCH1:28 IN:2 D
F61.2 GB2:2 C


WIRING DIAGRAM GF1
Diagnostics plug
MAIN / 30
IGNITION / 15 / DR
X43
Plug, OBD
OBD Resistor 120 Ohms
LIGNE K
ADR
NO ADR
OR
DACU
TGW2
SPARE
TEA2+ ECU
CAN H
CAN L
BB2
J1587-1
splice361_694
splice362_694
splice363_694
splice364_694
splice366_830
splice367_830
splice325_51
224_689

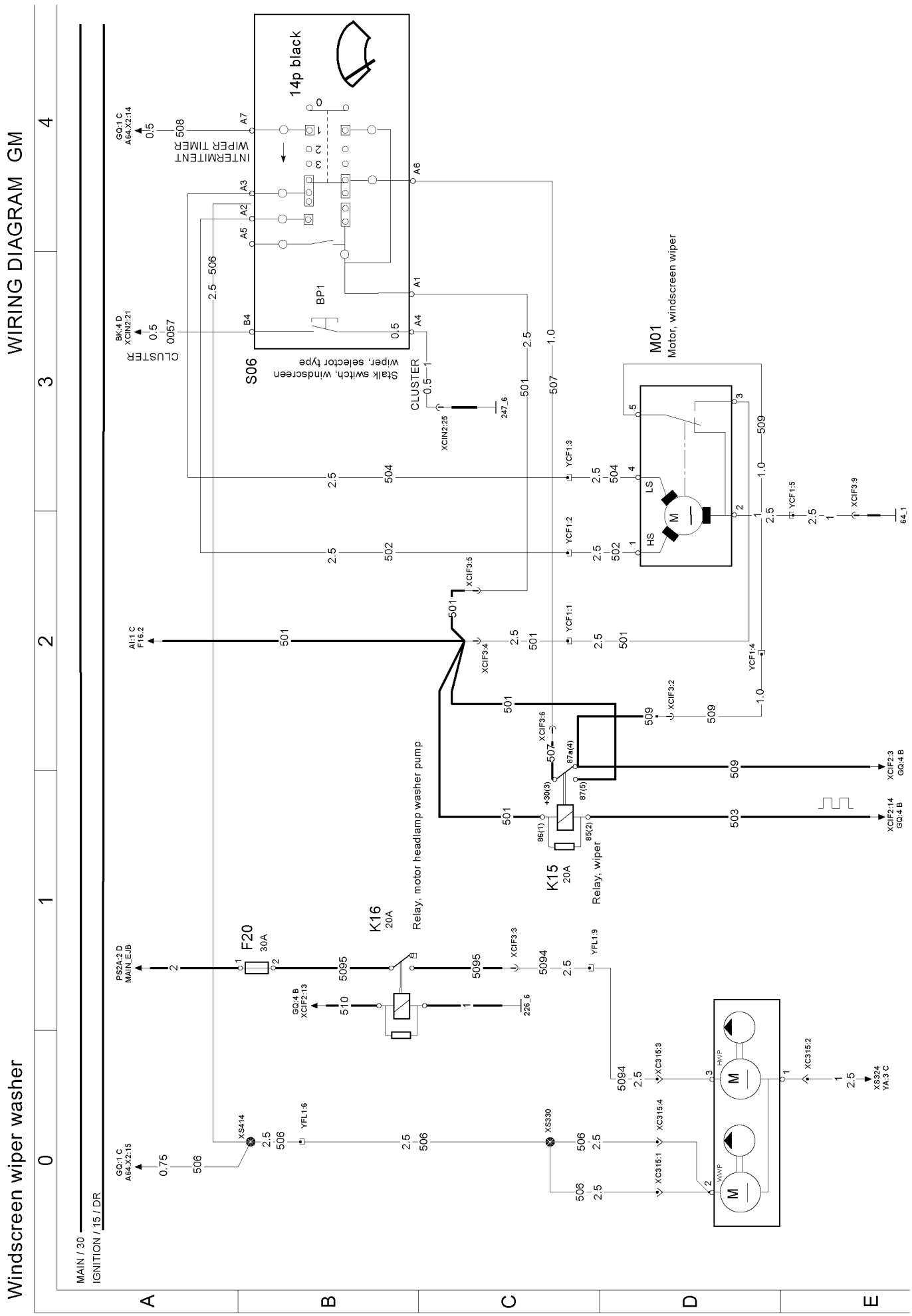

MAIN / 30
IGNITION / 15 / DR
PS2B:2 E
MAIN_EJB
F104
10A
E51L
Lamp, interior light
E51R
Lamp, interior light
Headershelf
V17
1A
E16DS
E16PS
Lamp, instep light
Doors
SPARE
WITHOUT DOOR LOCK REMOTE CONTROL
B107DS
Sensor, Door open/closed
B107PS
Sensor, Door open/closed
E52R
Lamp, Roof
E52L
Lamp, Roof
XS124
XS118
XS117
XCH2:9
XCH2:21
238_6
196_6
splice391_370
splice385_370
splice21_25
splice80_6

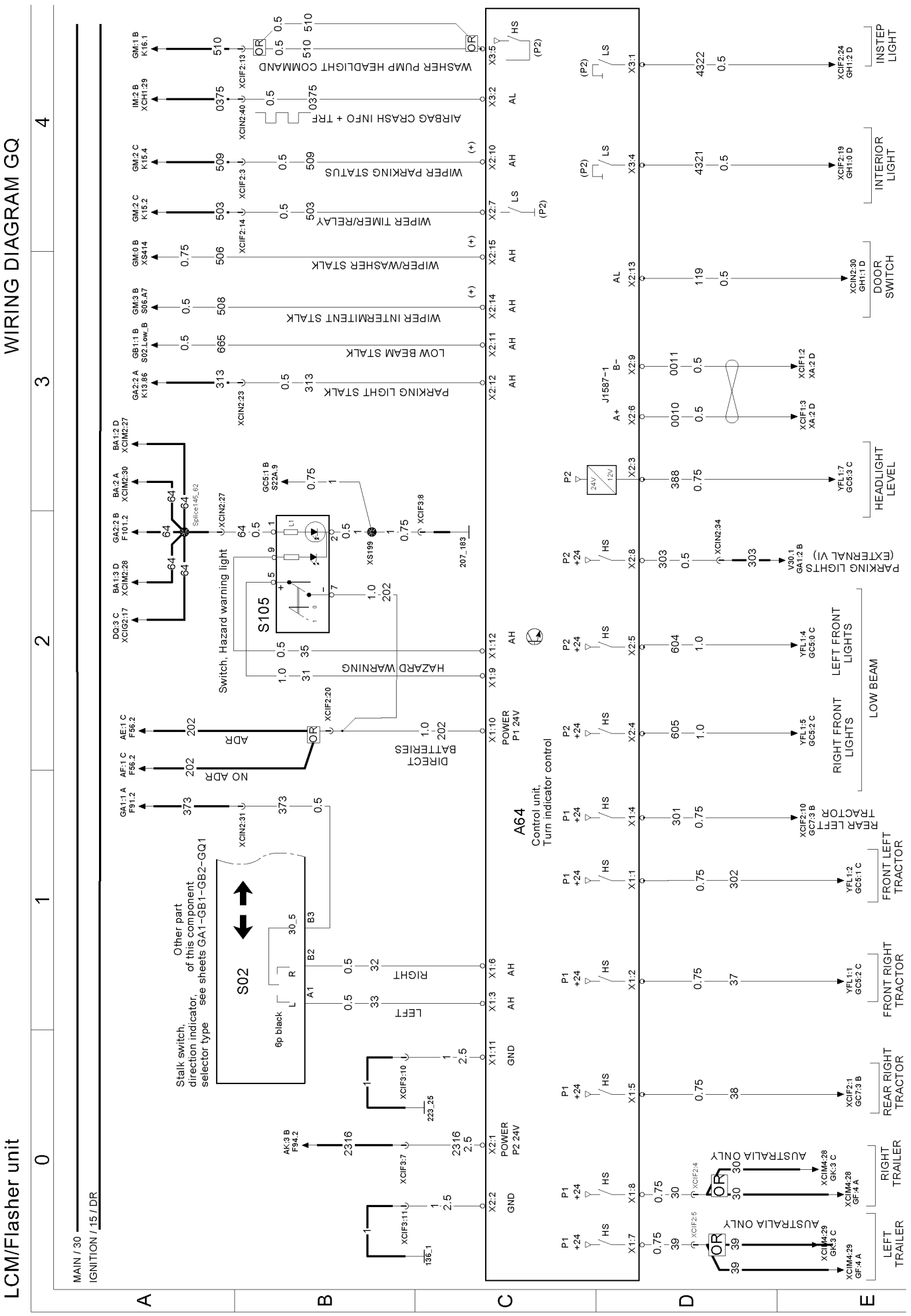

WIRING DIAGRAM GH3V
Interior lighting, 4 DOORS
MAIN / 30
IGNITION / 15 / DR
Lamp, Instep light, rear right (4 Doors Cab)
E71R
Lamp, Instep light, rear left (4 Doors Cab)
E71L
Sensor, Door open/closed rear right (4 Doors Cab)
B161R
Sensor, Door open/closed rear left (4 Doors Cab)
B161L
K07
10A
V03
Simple lamp, Interior light, rear right (4 Doors Cab)
E70R
P=21W
Simple lamp, Interior light, rear left (4 Doors Cab)
E70L
P=21W
GH1:0 A
F104.2
GH1:0 B
XCH2:9
GH1:1 C
XCH1:19
IM:1 C
A11.12
XS804
IQV:3 B
earth209_305
earth207_301
XS808
XS807
XS810
XCIO3:11
XCIN1:33
XCIN1:32
XCIN1:35
XCIN1:30
XCIN1:36
XCH1:10
XCIN2:4
XCIO3:15
XCH2:31
XAHH4:2
XAHH4:1
XAHH4:3
XCH1:22
XARD01:1
XARD01:2
XARD02:1
XARD02:2
ICR81:6
ICR81:7
ICR81:8
OR
86(1)
85(2)
87(5)
87a(4)
+30(3)
0
1
2
3
4
A
B
C
D
E

T3089927

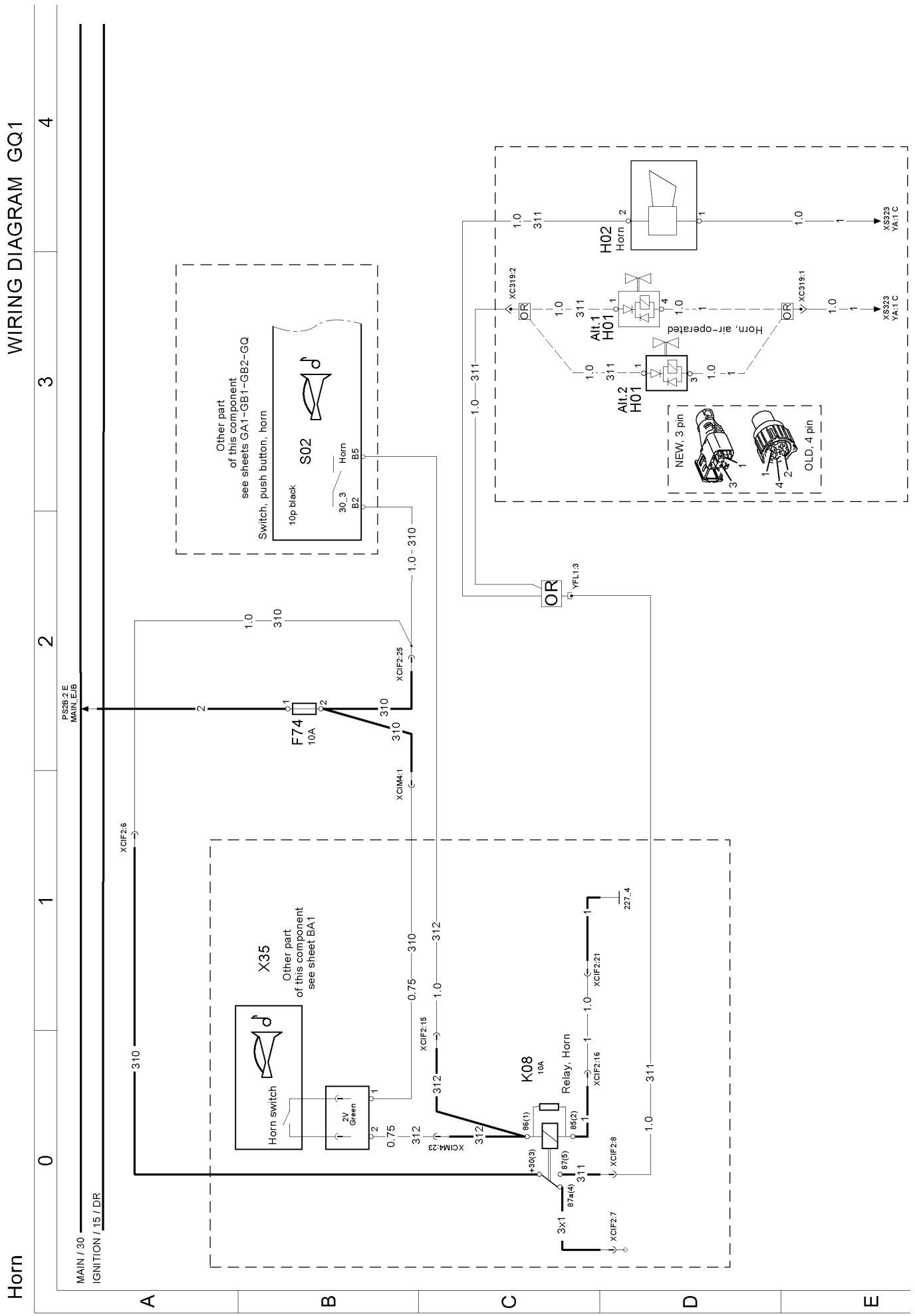

Trailer connections (Australia)
WIRING DIAGRAM GK
MAIN / 30
IGNITION / 15 / DR
Trailer connection, Plug 24V/12N Rigid
Trailer connection, Plug 24V/24N Tractor
X58R
X59T
X56R
X56T
Plug, ABS 24V, Rigid
Plug, ABS 24V, Tractor
CLUSTER
OR
GQ:0 D XCIF2:4
GQ:0 D XCIF2:5
GD:2 B K03:87
GD:4 C F88.2
GA1:1 C F64.2
GA1:0 C F61.2
AH:2 C F33.2
AI:-0 B F78.2
EM2:3 D XCIM1:15
EM2:3 D XCIM1:16
BK:0 B A03MV.C2
XCIM4:28
XCIM4:29
XFTP1:7
XFTP1:4
XFTP1:8
XFTP1:5
XFTP1:3
XFTP2:1
YFTP1:5
YFTP1:4
YFTP1:1
YFTP1:6
YFTP1:7
5.3_1 YB:3 D
5.5_1 YB:3 D
5.3_1 YB:0 D

T3080915

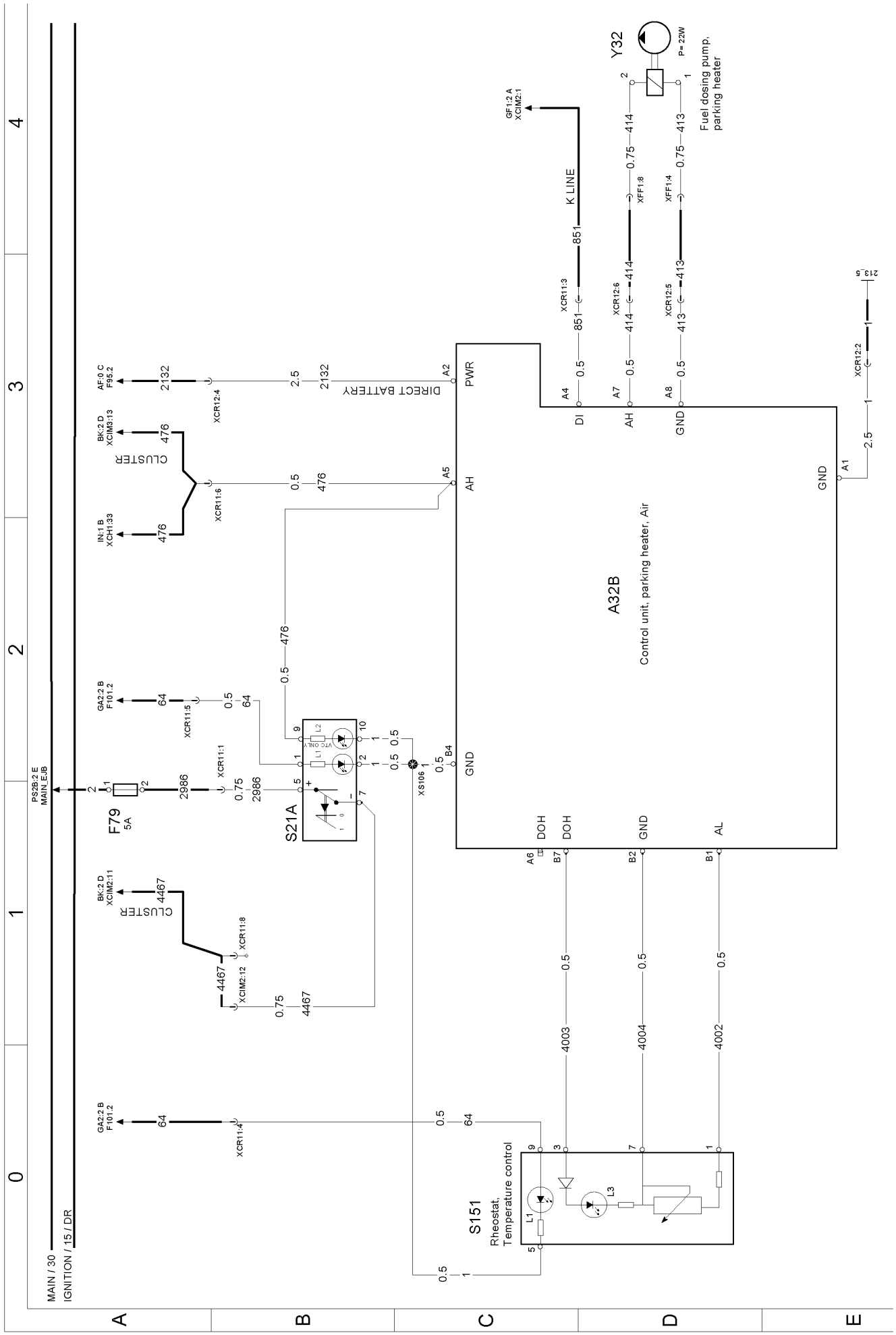

WIRING DIAGRAM GM
Windscreen wiper washer
MAIN / 30
IGNITION / 15 / DR
S06
Stalk switch, windscreen wiper, selector type
14p black
INTERMITENT WIPER TIMER
BP1
CLUSTER
M01
Motor, windscreen wiper
LS
HS
K15
20A
Relay, wiper
K16
20A
Relay, motor headlamp washer pump
F20
30A
HWP
WWP


MAIN / 30
IGNITION / 15 / DR
Stalk switch, direction indicator, selector type
Other part of this component see sheets GA1–GB1–GB2–GQ1
S02
6p black
S105
Switch, Hazard warning light
A64
Control unit, Turn indicator control
WASHER PUMP HEADLIGHT COMMAND
AIRBAG CRASH INFO + TRF
WIPER PARKING STATUS
WIPER TIMER/RELAY
WIPER/WASHER STALK
WIPER INTERMITENT STALK
LOW BEAM STALK
PARKING LIGHT STALK
HAZARD WARNING
NO ADR
ADR
DIRECT BATTERIES
RIGHT
LEFT
POWER P1 24V
POWER P2 24V
GND
PARKING LIGHTS (EXTERNAL VI)
LEFT FRONT LIGHTS
RIGHT FRONT LIGHTS
LOW BEAM
REAR LEFT TRACTOR
FRONT LEFT TRACTOR
FRONT RIGHT TRACTOR
REAR RIGHT TRACTOR
RIGHT TRAILER
LEFT TRAILER
AUSTRALIA ONLY
HEADLIGHT LEVEL
DOOR SWITCH
INTERIOR LIGHT
INSTEP LIGHT

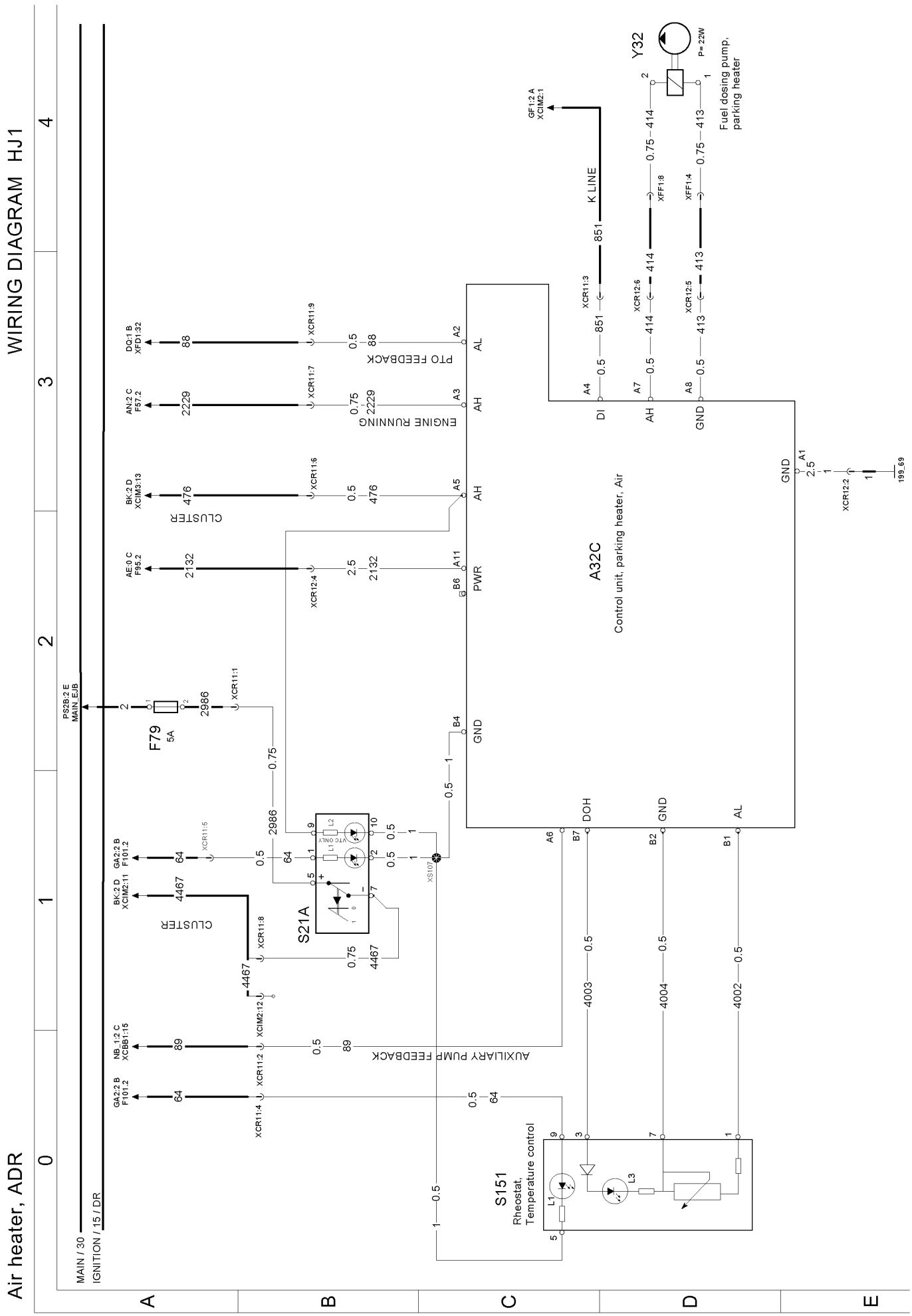
T3084216


WIRING DIAGRAM GQ1
Horn
MAIN / 30
IGNITION / 15 / DR
P52B:2 E
MAIN_E:B
Other part
of this component
see sheets GA1-GB1-GB2-GQ
Switch, push button, horn
S02
10p black
30_3
Horn
B5
B2
F74
10A
XCIF2:25
XCIM4:1
XCIF2:6
X35
Other part
of this component
see sheet BA1
Horn switch
2V
Green
XCIM4:23
XCIF2:15
K08
10A
Relay, Horn
86(1)
85(2)
+30(3)
87(5)
87a(4)
3x1
XCIF2:21
XCIF2:16
XCIF2:8
XCIF2:7
227_4
OR
YFL1:3
H02
Horn
XS323
YA:1 C
XC319:2
XC319:1
Alt.1
H01
Alt.2
H01
Horn, air-operated
NEW, 3 pin
OLD, 4 pin

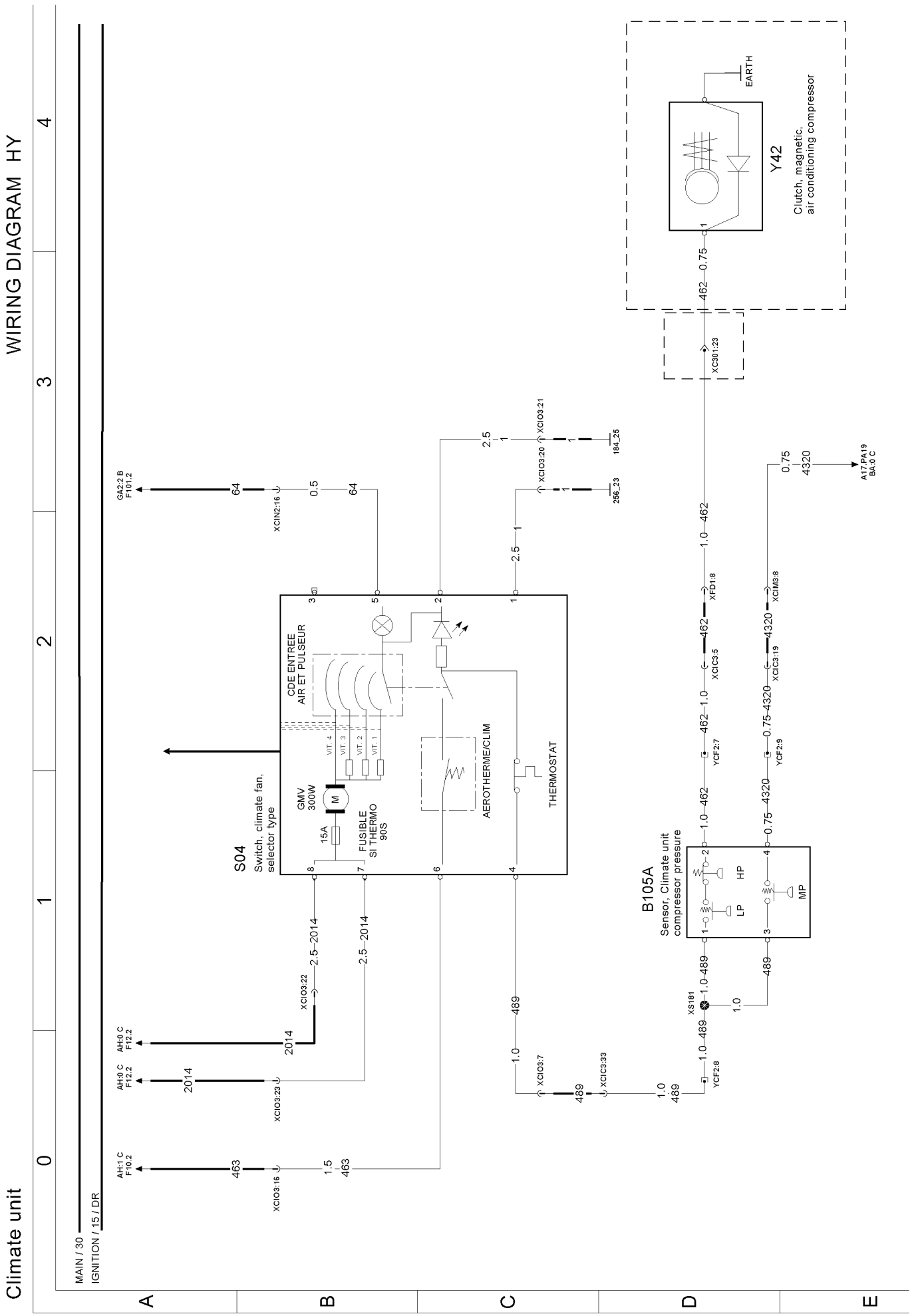
T3098321

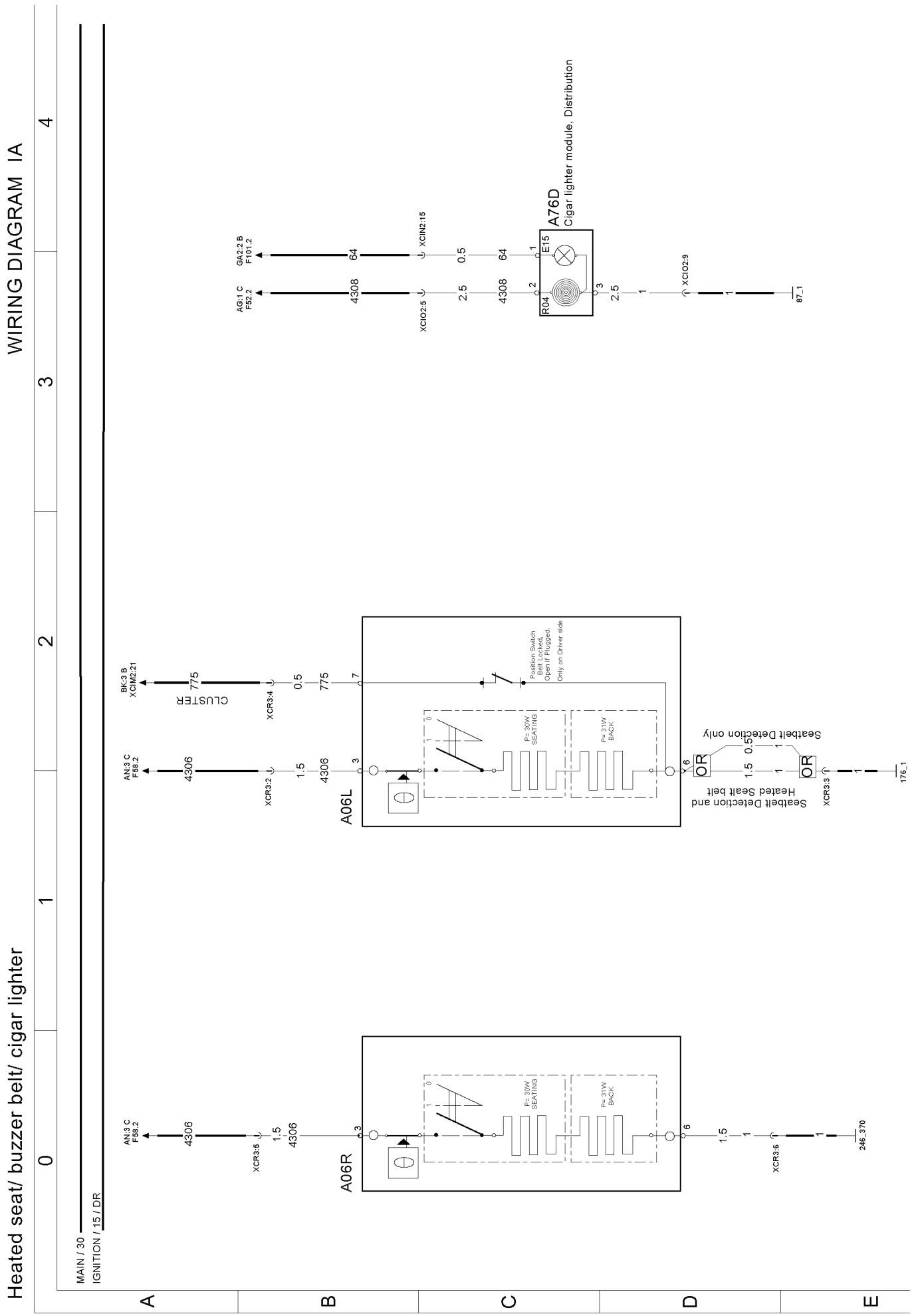

MAIN / 30
IGNITION / 15 / DR
PS2B:2 E
MAIN_E.IB
F79
5A
S21A
S151
Rheostat,
Temperature control
A32B
Control unit, parking heater, Air
PWR
AH
GND
DI
DOH
AL
DIRECT BATTERY
K LINE
CLUSTER
Y32
P= 22W
Fuel dosing pump,
parking heater
AF:0 C
F95.2
BK:2 D
XCIM3:13
IN:1 B
XCH1:33
BK:2 D
XCIM2:11
GA2:2 B
F101.2
GF1:2 A
XCIM2:1
XCR12:4
XCR11:6
XCR11:5
XCR11:1
XCR11:8
XCIM2:12
XCR11:4
XCR11:3
XCR12:6
XCR12:5
XFF1:8
XFF1:4
XCR12:2
XS106
2132
476
64
2986
4467
851
414
413
4003
4004
4002
0.5
0.75
2.5
A0
A1
A2
A4
A5
A6
A7
A8
B1
B2
B4
B7
L1
L2
L3
VTC ONLY
0
1
2
3
4
A
B
C
D
E

T3084218


WIRING DIAGRAM HJ1
Air heater, ADR
MAIN / 30
IGNITION / 15 / DR
PS2B:2 E
MAIN_EJB
F79
5A
A32C
Control unit, parking heater, Air
S21A
S151
Rheostat,
Temperature control
Y32
P= 22W
Fuel dosing pump,
parking heater
K LINE
GF1:2 A
XCIM2:1
PTO FEEDBACK
ENGINE RUNNING
CLUSTER
AUXILIARY PUMP FEEDBACK
DQ:1 B
XFD1:32
AN:2 C
F57.2
BK:2 D
XCIM3:13
AE:0 C
F95.2
BK:2 D
XCIM2:11
GA2:2 B
F101.2
NB:1:2 C
XCBB1:15
DI
AH
GND
AL
PWR
DOH
199_69

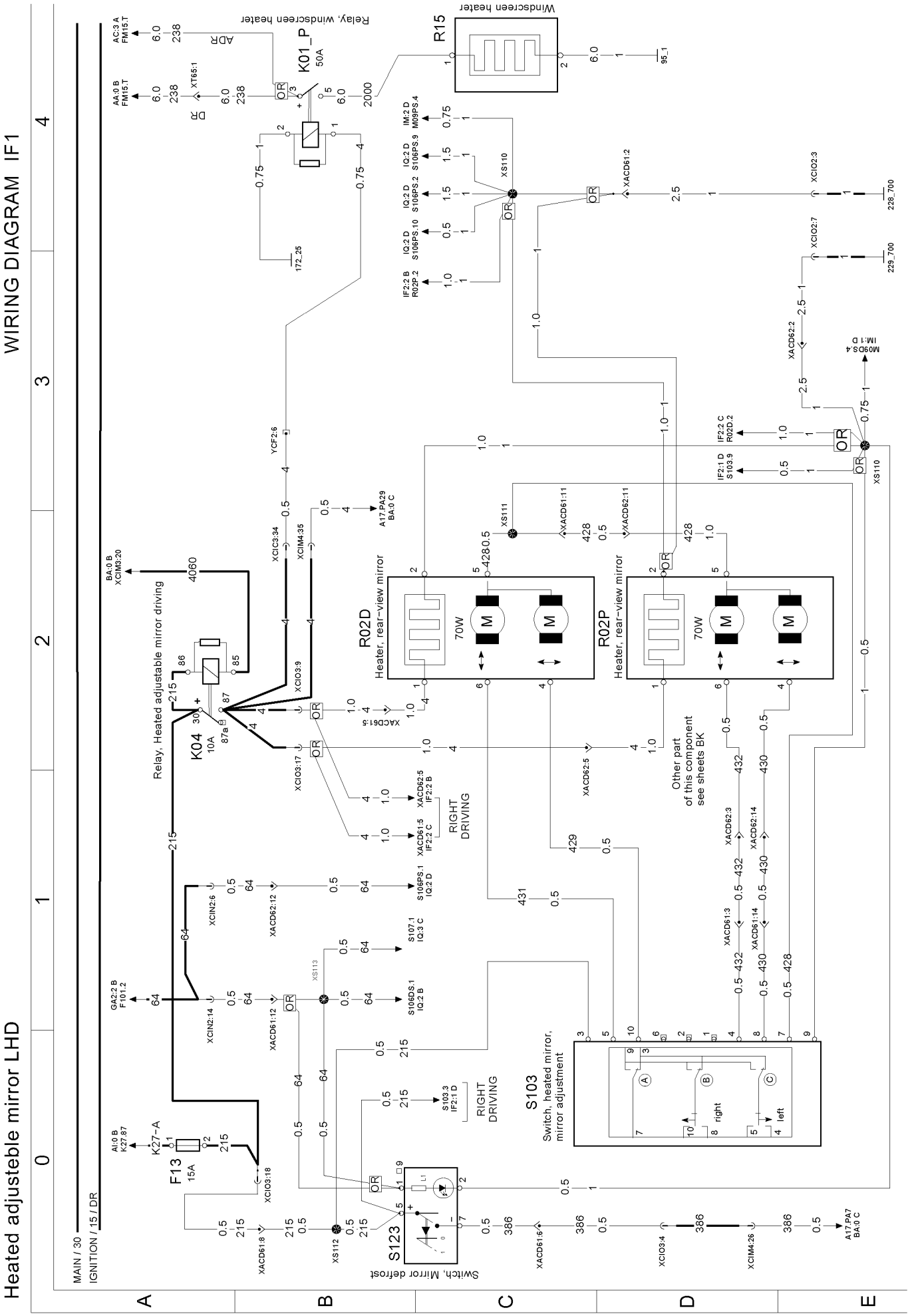
T3084219


MAIN / 30
IGNITION / 15 / DR
S04
Switch, climate fan, selector type
CDE ENTREE AIR ET PULSEUR
GMV 300W
15A
FUSIBLE SI THERMO 90S
AEROTHERME/CLIM
THERMOSTAT
B105A
Sensor, Climate unit compressor pressure
LP
HP
MP
Y42
Clutch, magnetic, air conditioning compressor
EARTH
GA2:2 B F101:2
AH:0 C F12.2
AH:1 C F10.2
A17 PA19 BA:0 C
XCIN2:16
XCIO3:16
XCIO3:23
XCIO3:22
XCIO3:7
XCIO3:20
XCIO3:21
XCIC3:33
XCIC3:5
XCIC3:19
XCIM3:8
XFD1:8
XC301:23
XS181
YCF2:7
YCF2:9
YCF2:8
184_25
256_23

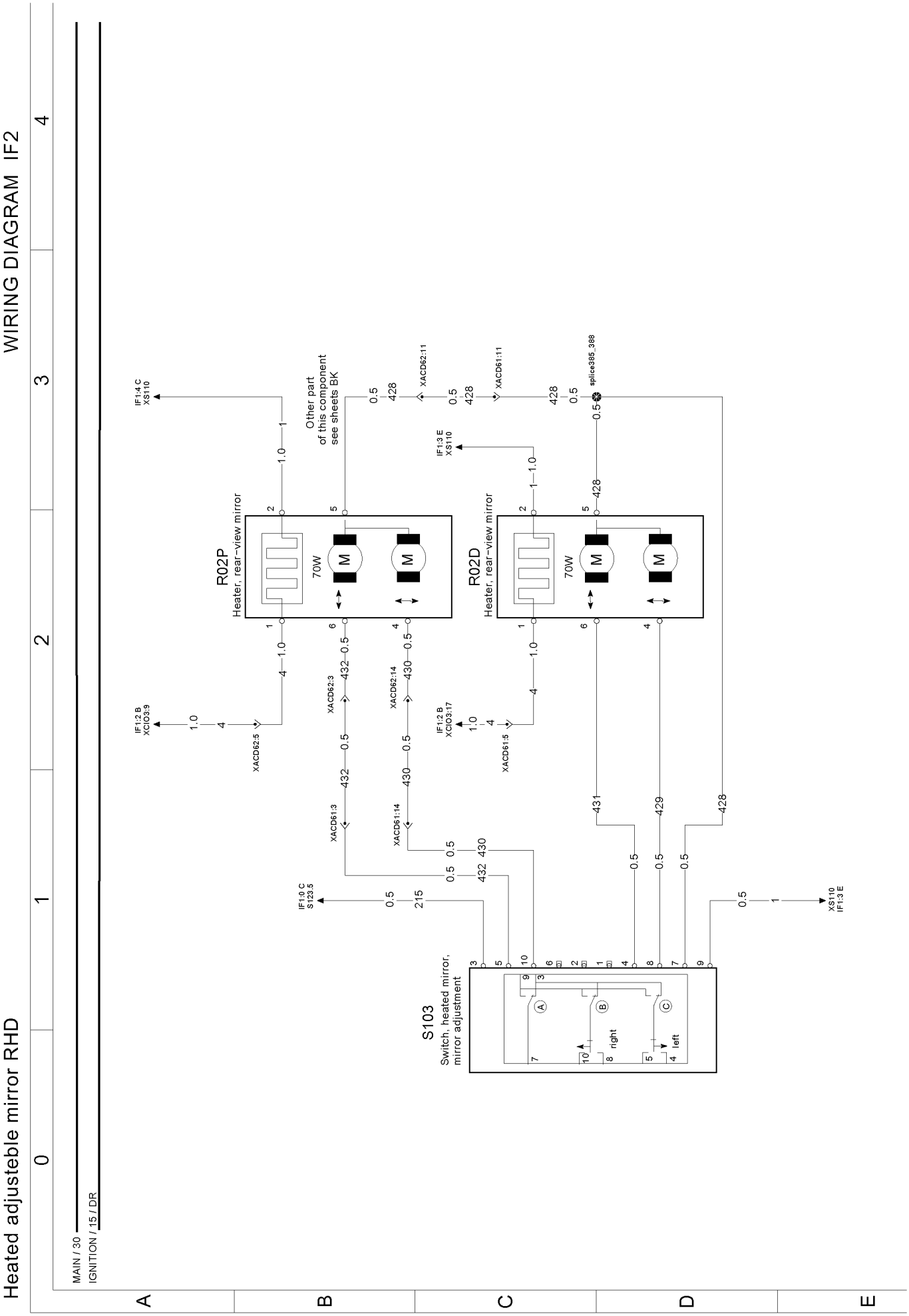

Heated seat/ buzzer belt/ cigar lighter
WIRING DIAGRAM IA
0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
A
B
C
D
E
AN:3 C
F58.2
4306
XCR3:5
1.5
4306
A06R
P= 30W
SEATING
P= 31W
BACK
1.5
XCR3:6
246_370
AN:3 C
F58.2
4306
XCR3:2
1.5
4306
A06L
BK:3 B
XCIM2:21
775
CLUSTER
XCR3:4
0.5
775
Position Switch
Belt Locked,
Open if Plugged.
Only on Driver side
Seatbelt Detection and
Heated Seat belt
Seatbelt Detection only
OR
OR
XCR3:3
176_1
AG:1 C
F52.2
4308
XCIO2:5
2.5
4308
GA2:2 B
F101.2
64
XCIN2:15
0.5
64
R04
E15
A76D
Cigar lighter module, Distribution
2.5
XCIO2:9
87_1

T3080923

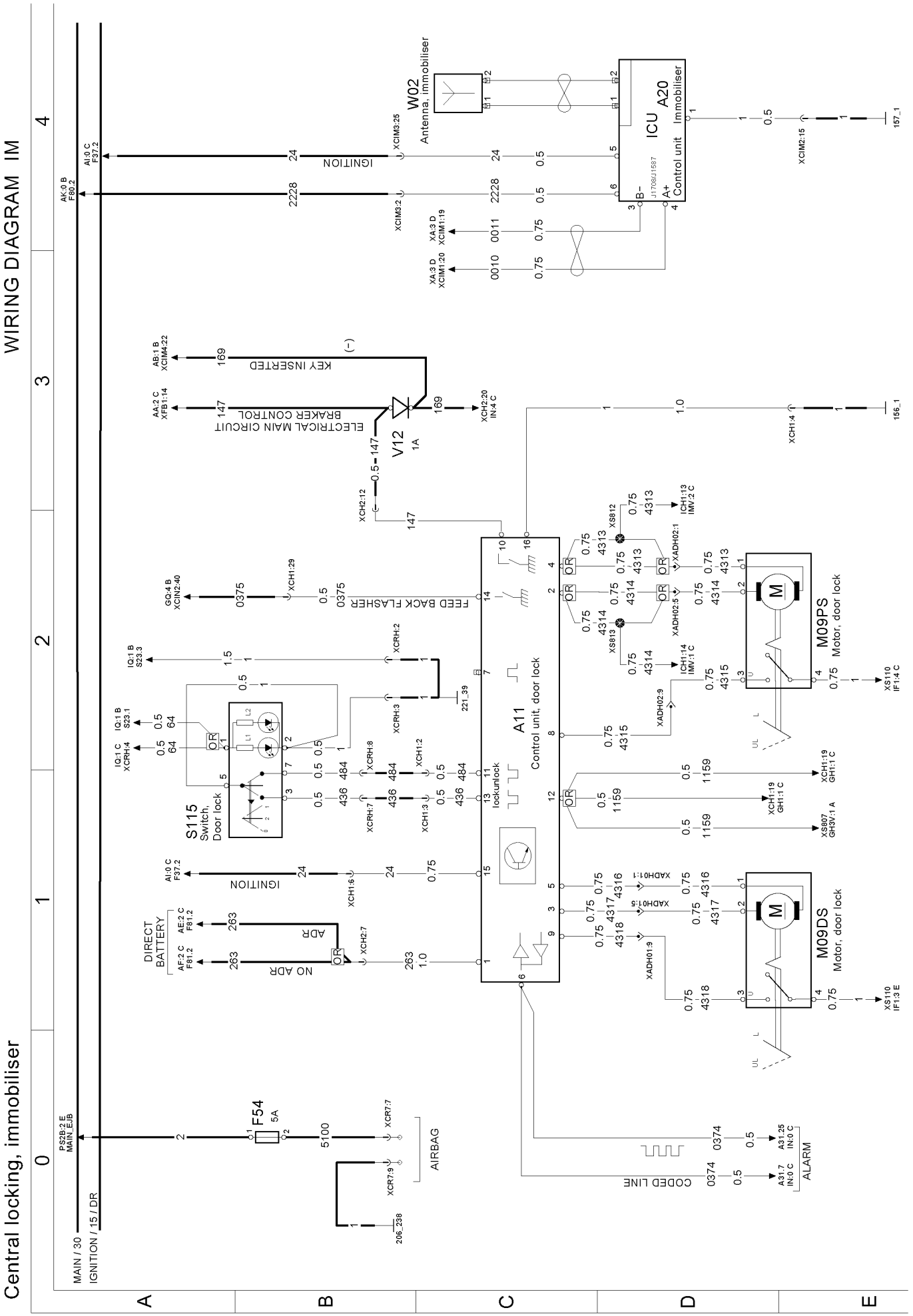
Heated adjusteble mirror LHD



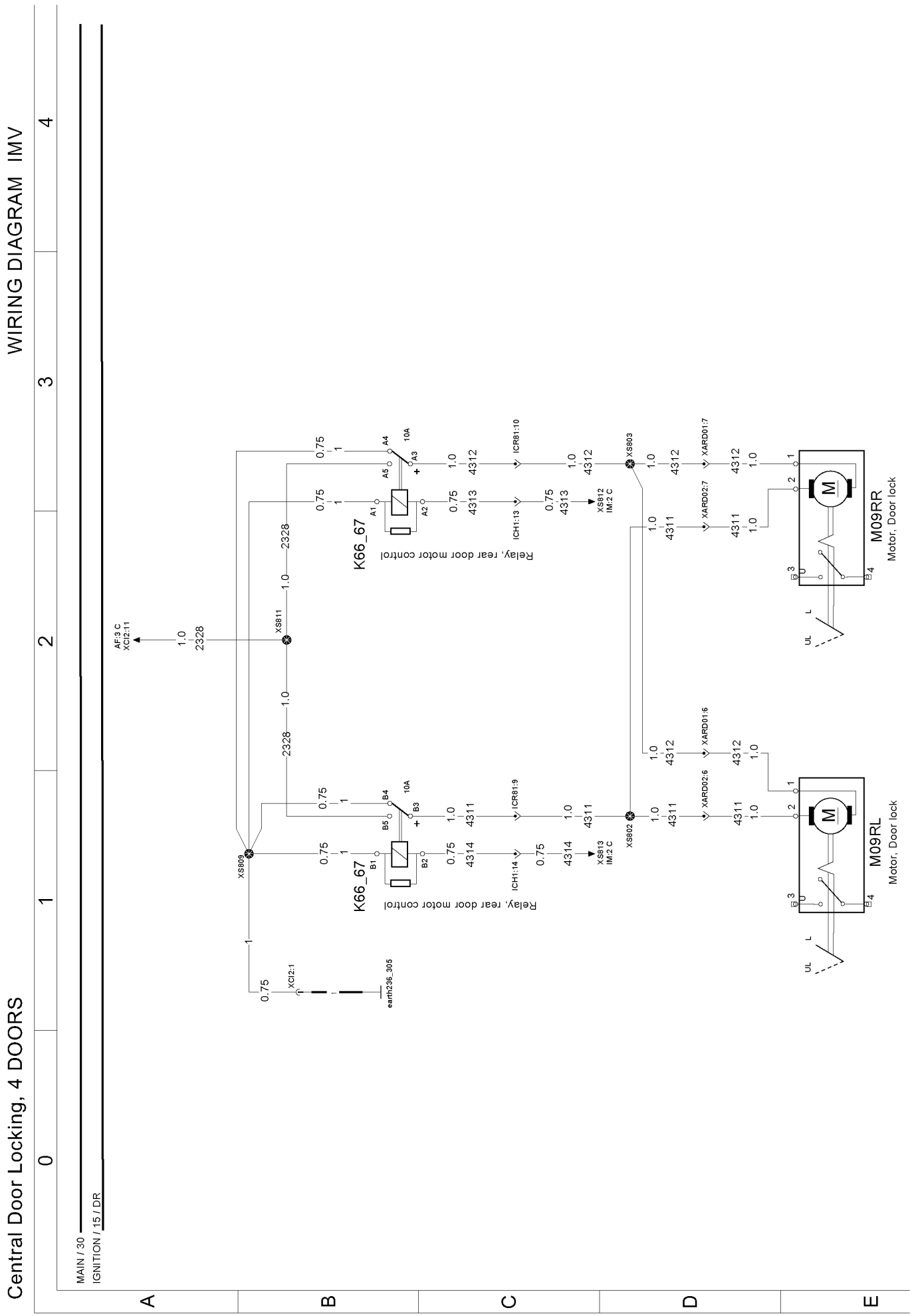
Heated adjusteble mirror RHD



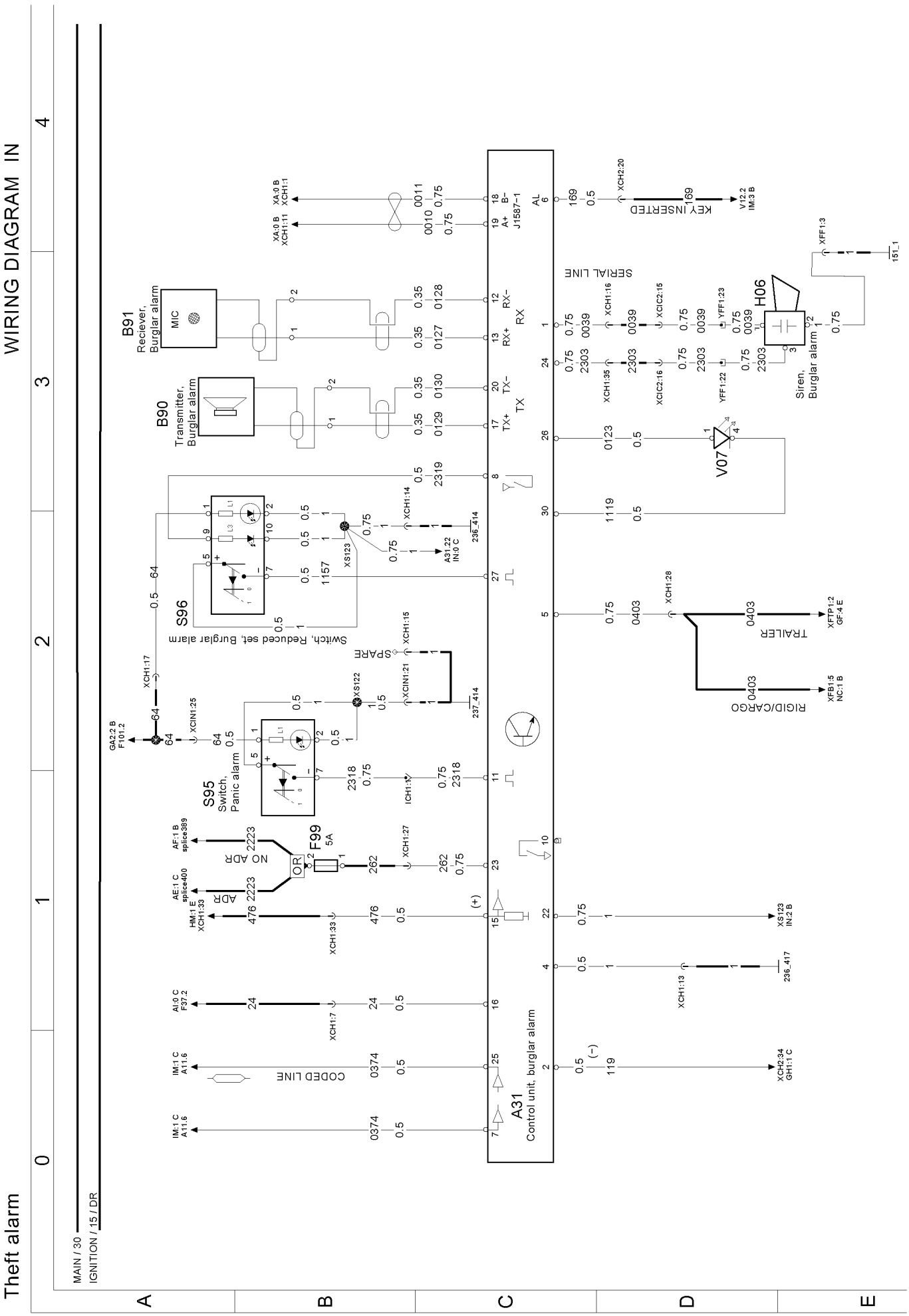
T3080925

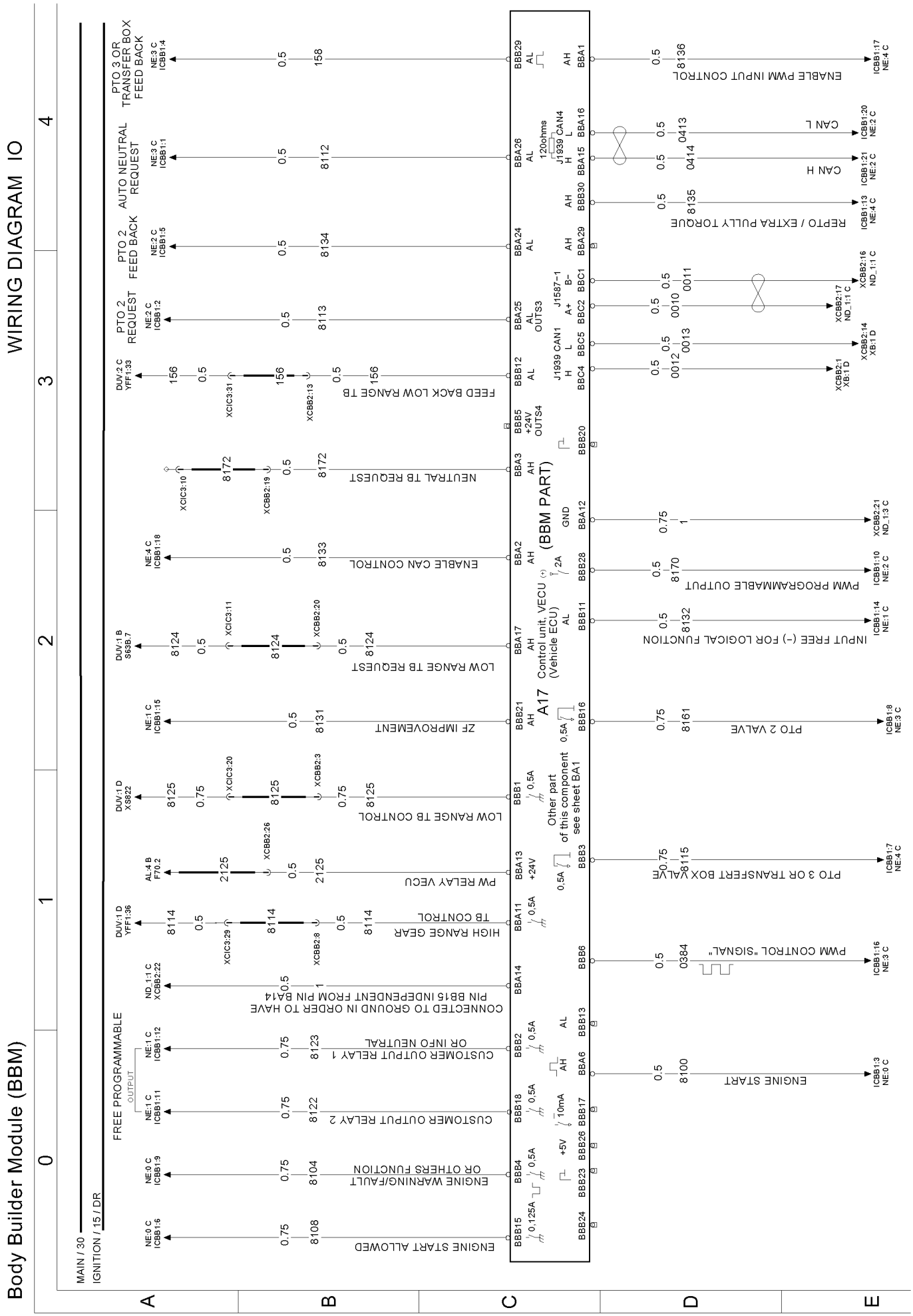

W02
Antenna, immobiliser
ICU
A20
Immobiliser
Control unit
IGNITION
KEY INSERTED
ELECTRICAL MAIN CIRCUIT
BRAKER CONTROL
V12
1A
FEED BACK FLASHER
A11
Control unit, door lock
lockunlock
S115
Switch,
Door lock
DIRECT
BATTERY
NO ADR
ADR
M09PS
Motor, door lock
M09DS
Motor, door lock
F54
5A
AIRBAG
CODED LINE
ALARM
MAIN / 30
IGNITION / 15 / DR

T3089928

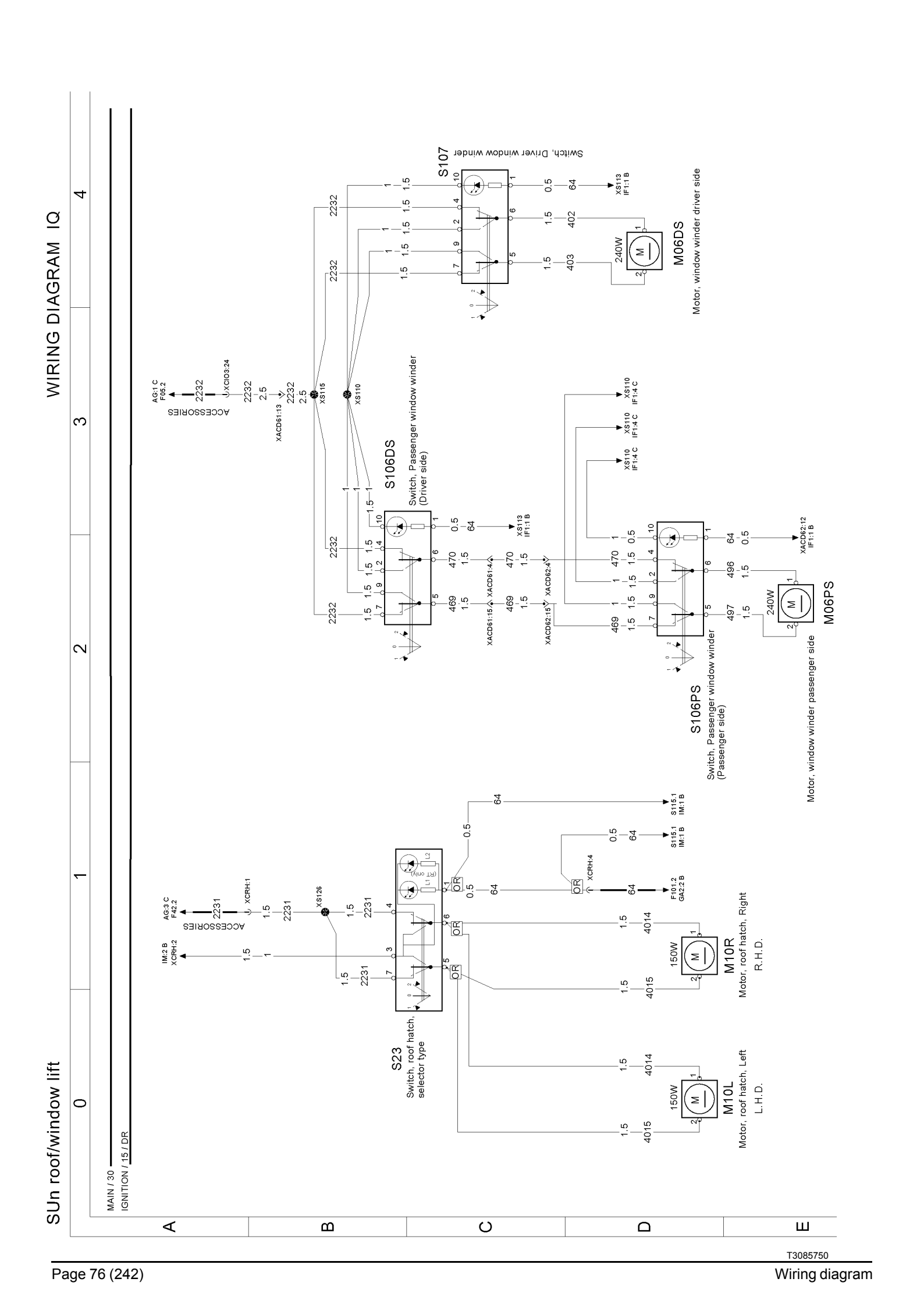

Central Door Locking, 4 DOORS
WIRING DIAGRAM IMV
MAIN / 30
IGNITION / 15 / DR
AF:3 C
XCI2:11
XS811
XS809
XCI2:1
earth236_305
K66_67
Relay, rear door motor control
A1
A2
A3
A4
A5
10A
B1
B2
B3
B4
B5
ICH1:13
ICR81:10
ICH1:14
ICR81:9
XS812
IM:2 C
XS813
IM:2 C
XS803
XS802
XARD02:7
XARD01:7
XARD02:6
XARD01:6
M09RR
Motor, Door lock
M09RL
Motor, Door lock
UL
L
M
2328
4312
4313
4311
4314

T3089929

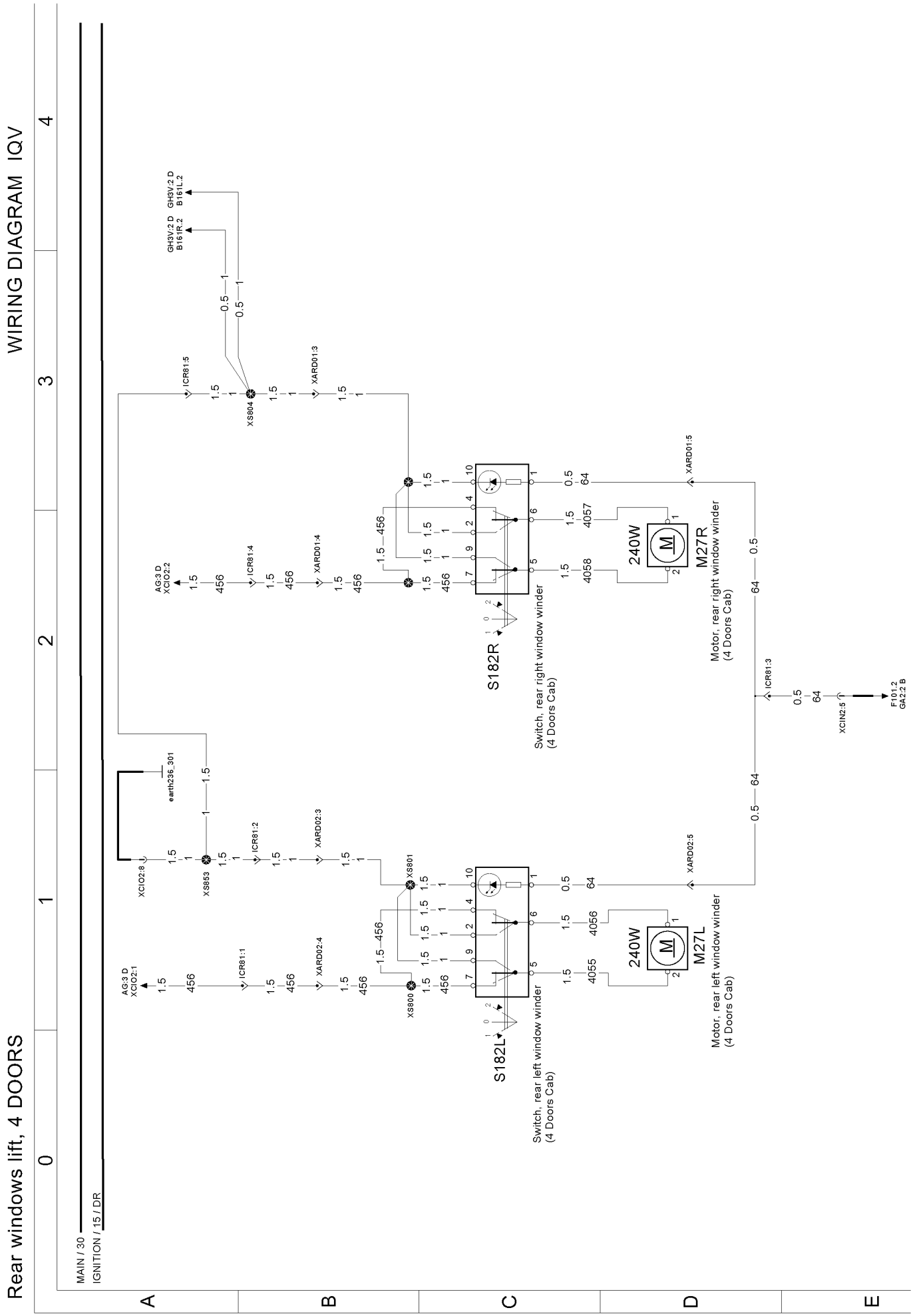

WIRING DIAGRAM IN
MAIN / 30
IGNITION / 15 / DR
B91
Reciever, Burglar alarm
MIC
B90
Transmitter, Burglar alarm
S96
Switch, Reduced set, Burglar alarm
S95
Switch, Panic alarm
F99
5A
NO ADR
ADR
OR
SPARE
CODED LINE
A31
Control unit, burglar alarm
RX
TX
SERIAL LINE
KEY INSERTED
H06
Siren, Burglar alarm
V07
TRAILER
RIGID/CARGO

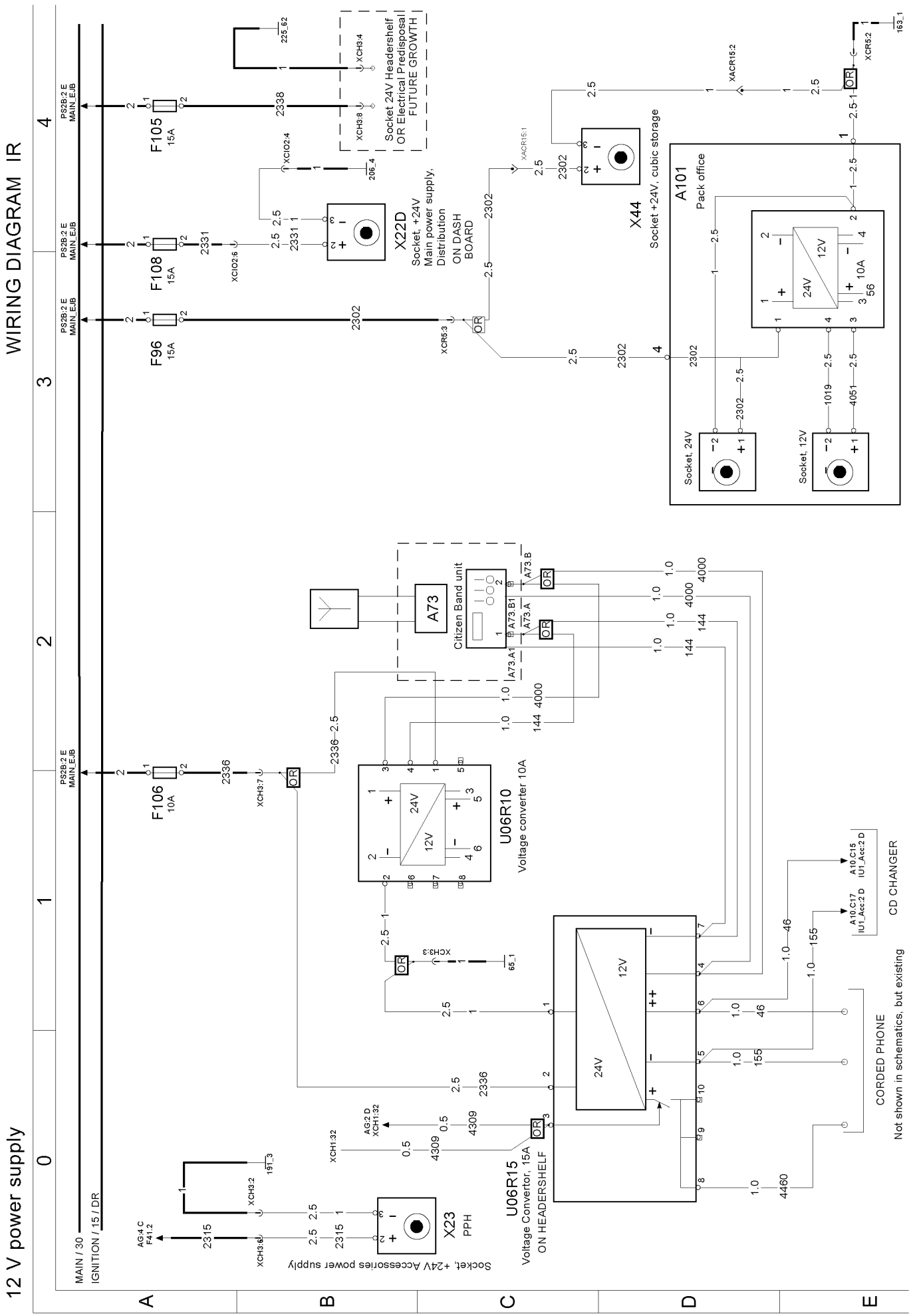

MAIN / 30
IGNITION / 15 / DR
FREE PROGRAMMABLE OUTPUT
ENGINE START ALLOWED
ENGINE WARNING/FAULT OR OTHERS FUNCTION
CUSTOMER OUTPUT RELAY 2
CUSTOMER OUTPUT RELAY 1 OR INFO NEUTRAL
CONNECTED TO GROUND IN ORDER TO HAVE PIN BB15 INDEPENDENT FROM PIN BA14
HIGH RANGE GEAR TB CONTROL
PW RELAY VECU
LOW RANGE TB CONTROL
ZF IMPROVEMENT
LOW RANGE TB REQUEST
ENABLE CAN CONTROL
NEUTRAL TB REQUEST
FEED BACK LOW RANGE TB
PTO 2 REQUEST
PTO 2 FEED BACK
AUTO NEUTRAL REQUEST
PTO 3 OR TRANSFER BOX FEED BACK
A17
Control unit, VECU (Vehicle ECU)
(BBM PART)
Other part of this component see sheet BA1
ENGINE START
PWM CONTROL "SIGNAL"
PTO 3 OR TRANSFERT BOX VALVE
PTO 2 VALVE
INPUT FREE (-) FOR LOGICAL FUNCTION
PWM PROGRAMMABLE OUTPUT
REPTO / EXTRA PULLY TORQUE
CAN H
CAN L
ENABLE PWM INPUT CONTROL
J1939 CAN1
J1587-1
J1939 CAN4
120ohms

T3097258

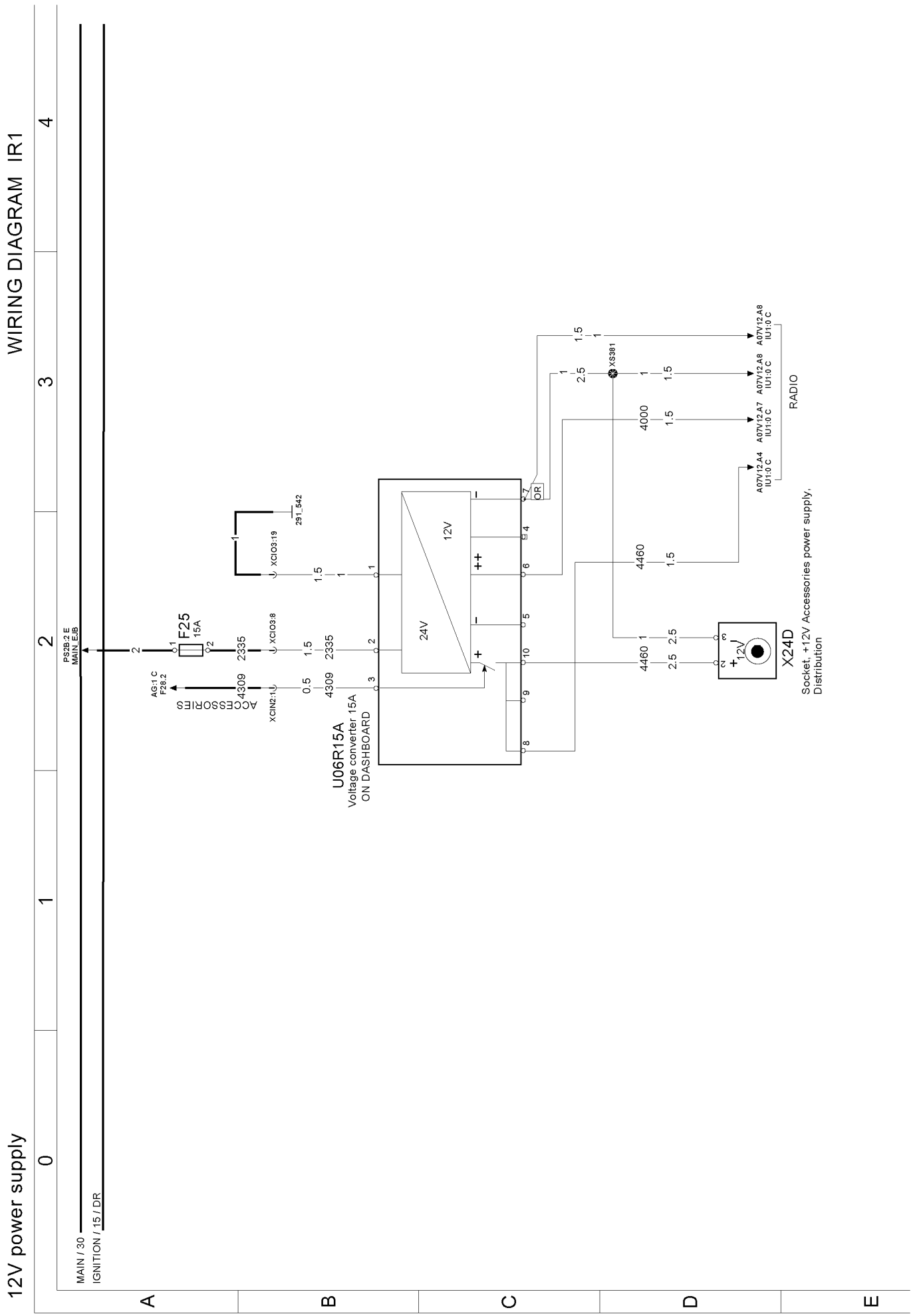

0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
A
B
C
D
E
S107
Switch, Driver window winder
M06DS
Motor, window winder driver side
S106DS
Switch, Passenger window winder
(Driver side)
S106PS
Switch, Passenger window winder
(Passenger side)
M06PS
Motor, window winder passenger side
S23
Switch, roof hatch,
selector type
M10R
Motor, roof hatch, Right
R.H.D.
M10L
Motor, roof hatch, Left
L.H.D.
ACCESSORIES
240W
150W
XS113
IF1:1 B
XS110
IF1:4 C
XACD62:12
IF1:1 B
S115.1
IM:1 B
F101.2
GA2:2 B
XCRH:4
XCRH:1
XS126
XS115
XS110
XACD61:13
XCIO3:24
XACD61:15
XACD61:4
XACD62:15
XACD62:4
AG:1 C
F05:2
AG:3 C
F42:2
IM:2 B
XCRH:2
T3085750

Rear windows lift, 4 DOORS

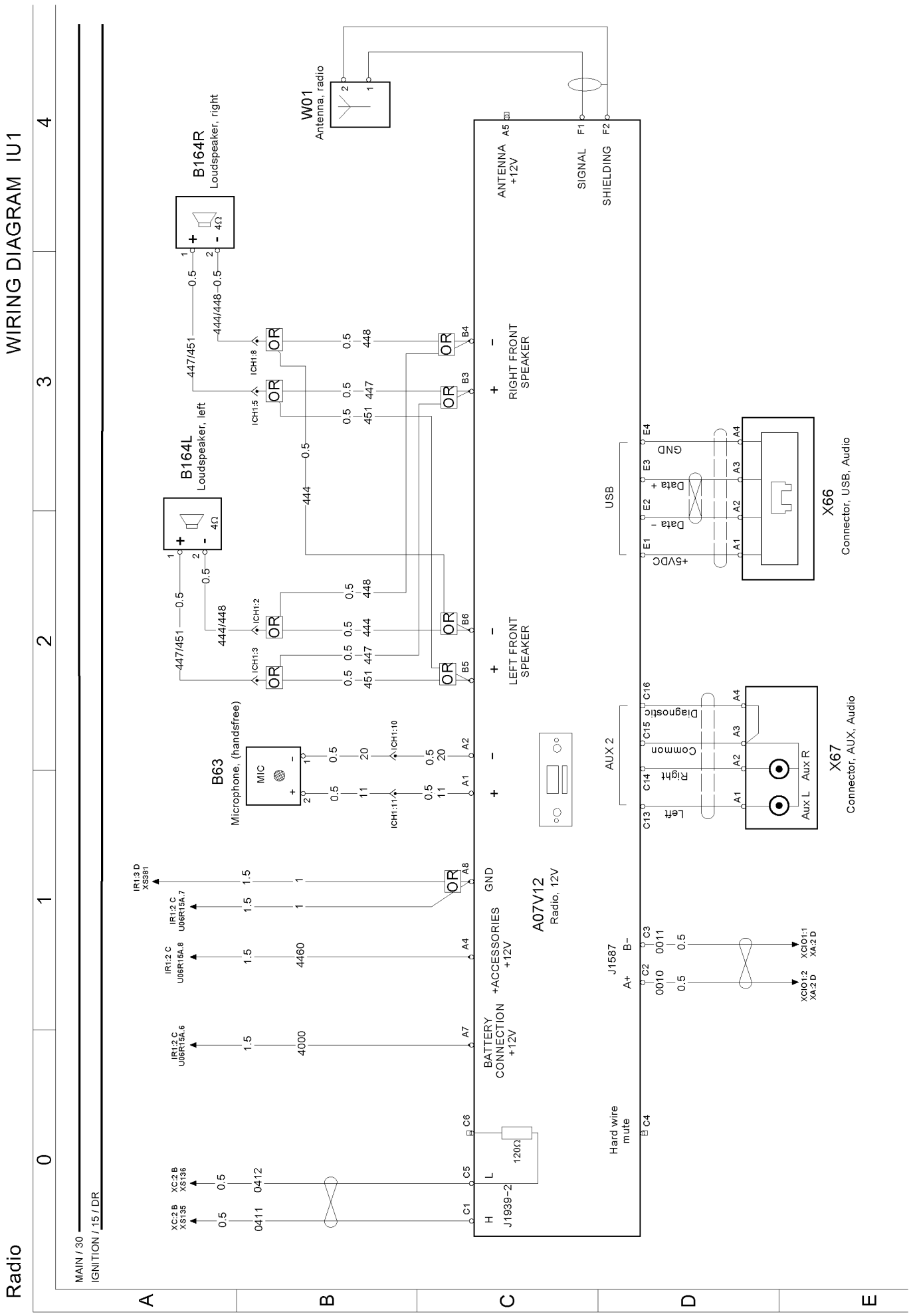



WIRING DIAGRAM IR
12 V power supply
MAIN / 30
IGNITION / 15 / DR
F96
15A
F108
15A
F105
15A
F106
10A
X22D
Socket, +24V
Main power supply,
Distribution
ON DASH
BOARD
Socket 24V Headershelf
OR Electrical Predisposal
FUTURE GROWTH
X44
Socket +24V, cubic storage
A101
Pack office
Socket, 24V
Socket, 12V
A73
Citizen Band unit
U06R10
Voltage converter 10A
U06R15
Voltage Convertor, 15A
ON HEADERSHELF
X23
PPH
Socket, +24V Accessories power supply
CD CHANGER
CORDED PHONE
Not shown in schematics, but existing

T3080930


12V power supply
WIRING DIAGRAM IR1
MAIN / 30
IGNITION / 15 / DR
PS2B:2 E
MAIN_EJB
F25
15A
AG:1 C
F28:2
ACCESSORIES
XCIN2:1
XCIO3:8
XCIO3:19
2335
4309
0.5
1.5
291_542
U06R15A
Voltage converter 15A
ON DASHBOARD
24V
12V
OR
XS381
4000
4460
2.5
A07V12 A4
IU1:0 C
A07V12 A7
IU1:0 C
A07V12 A8
IU1:0 C
RADIO
X24D
Socket, +12V Accessories power supply,
Distribution

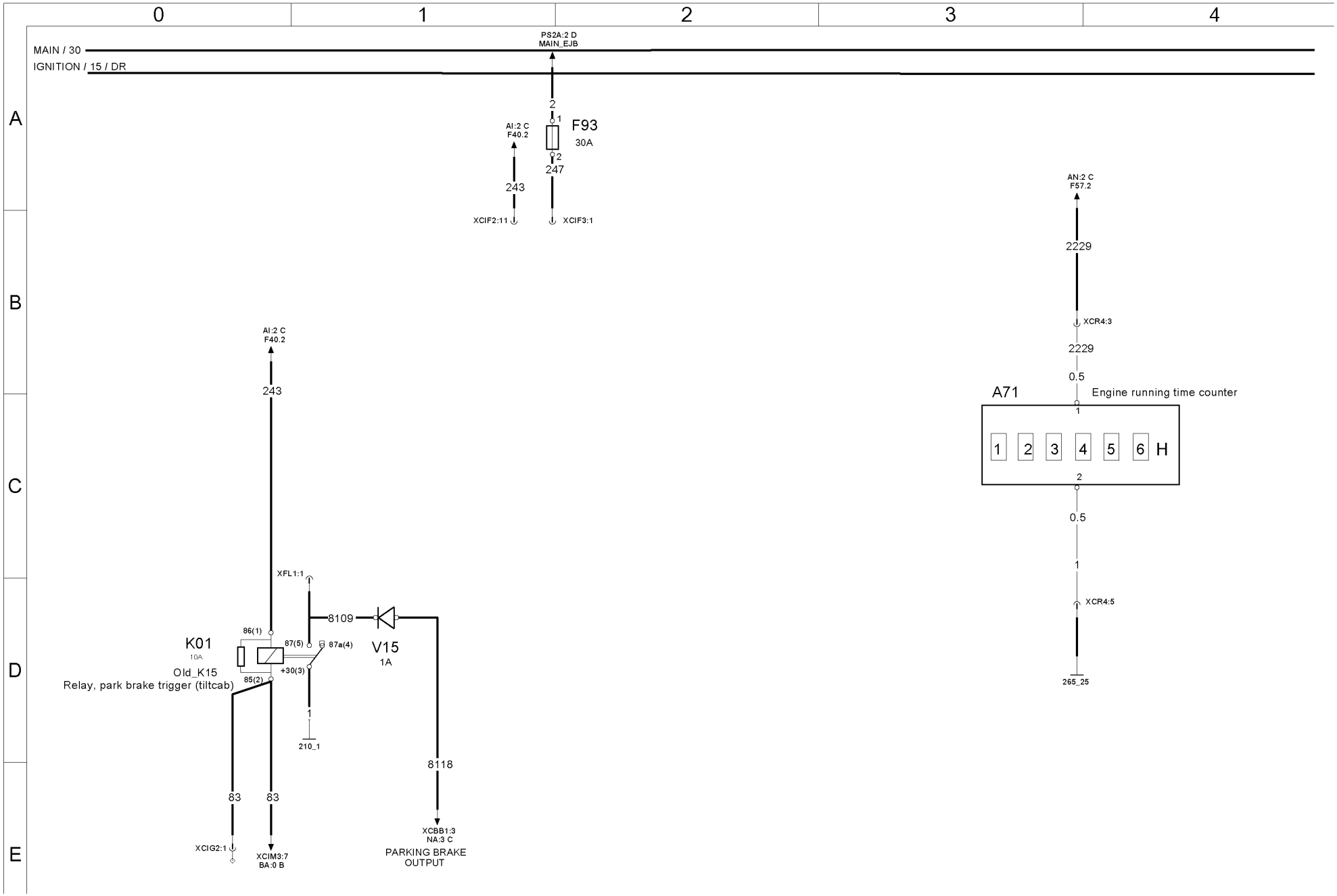
T3080931

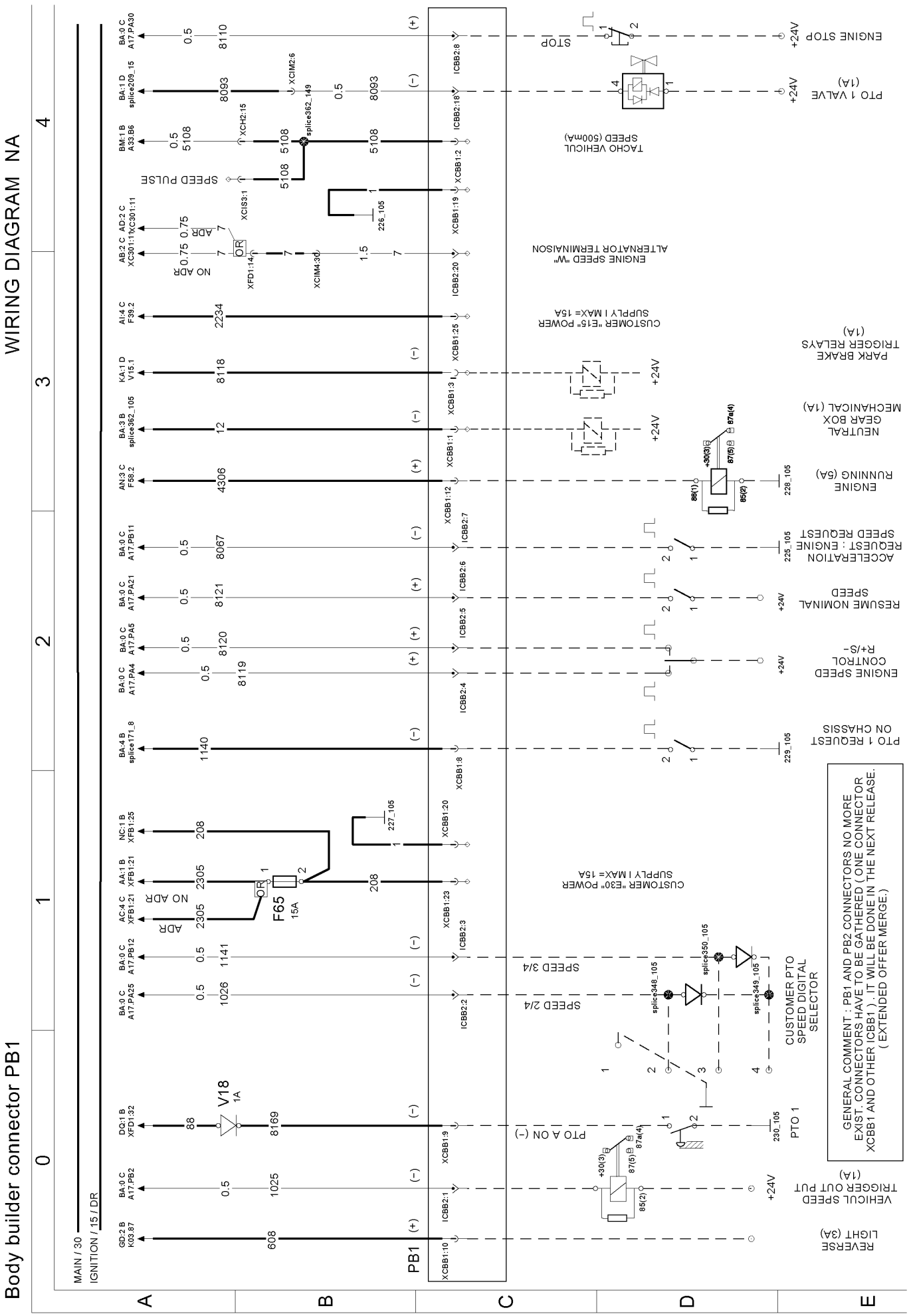

WIRING DIAGRAM IU1
Radio
MAIN / 30
IGNITION / 15 / DR
W01
Antenna, radio
B164R
Loudspeaker, right
B164L
Loudspeaker, left
B63
Microphone, (handsfree)
MIC
A07V12
Radio, 12V
ANTENNA +12V
SIGNAL
SHIELDING
RIGHT FRONT SPEAKER
LEFT FRONT SPEAKER
+ACCESSORIES +12V
BATTERY CONNECTION +12V
GND
J1939-2
120Ω
Hard wire mute
J1587
USB
+5VDC
Data -
Data +
GND
X66
Connector, USB, Audio
AUX 2
Left
Right
Common
Diagnostic
Aux L
Aux R
X67
Connector, AUX, Audio
IR1:3 D XS381
IR1:2 C U06R15A.7
IR1:2 C U06R15A.8
IR1:2 C U06R15A.6
XC:2 B XS136
XC:2 B XS135
XCIO1:2 XA:2 D
XCIO1:1 XA:2 D
OR
A
B
C
D
E
0
1
2
3
4

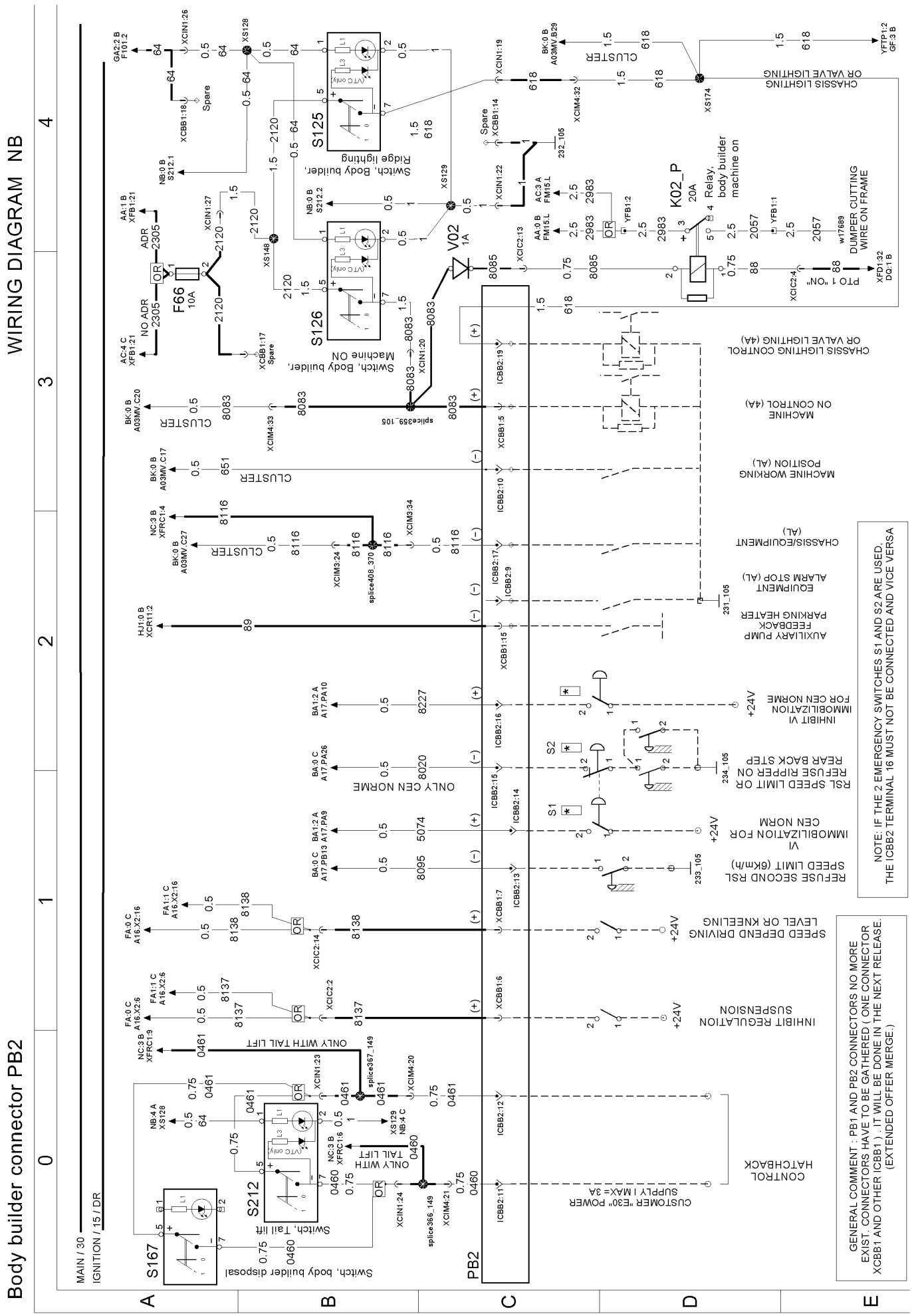
T3080933

Cab tilt and brake body builder output/timecounter

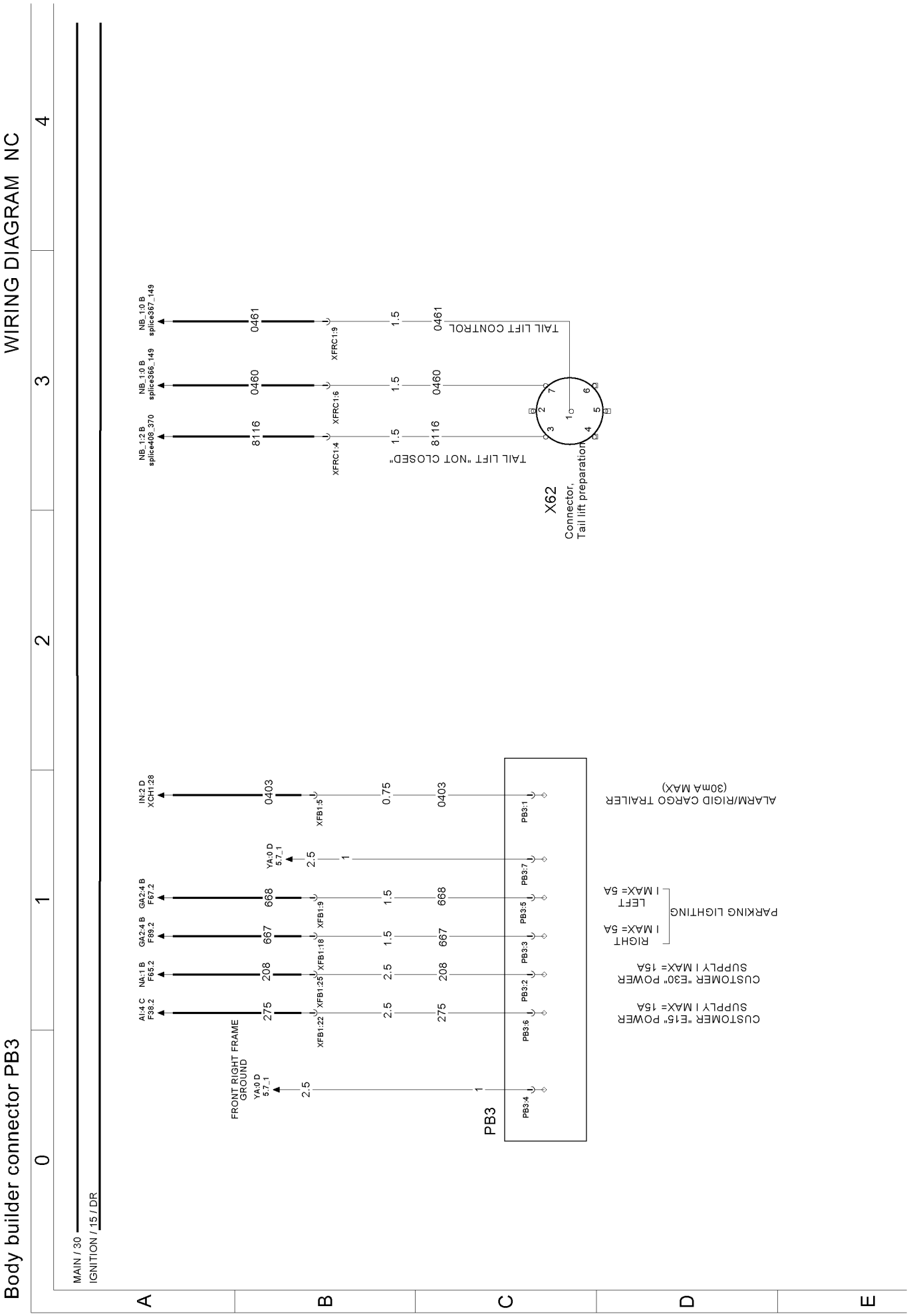
WIRING DIAGRAM KA



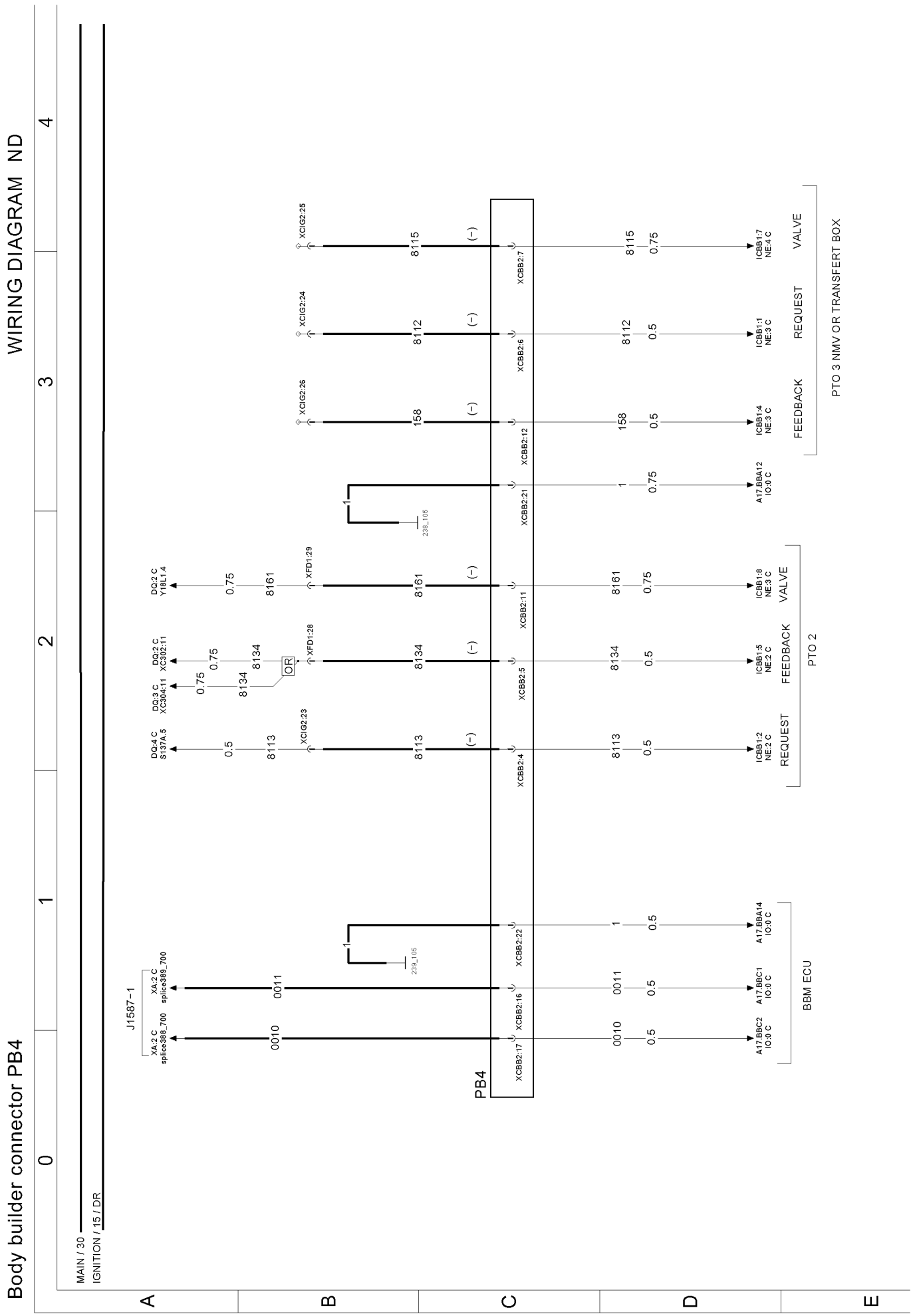

WIRING DIAGRAM NA
Body builder connector PB1
MAIN / 30
IGNITION / 15 / DR
PB1
REVERSE LIGHT (3A)
VEHICUL SPEED TRIGGER OUT PUT (1A)
PTO 1
CUSTOMER PTO SPEED DIGITAL SELECTOR
PTO A ON (-)
SPEED 3/4
SPEED 2/4
CUSTOMER "E30" POWER SUPPLY I MAX= 15A
F65
15A
V18
1A
NO ADR
ADR
PTO 1 REQUEST ON CHASSIS
ENGINE SPEED CONTROL R+/S-
RESUME NOMINAL SPEED
ACCELERATION REQUEST : ENGINE SPEED REQUEST
ENGINE RUNNING (5A)
NEUTRAL GEAR BOX MECHANICAL (1A)
PARK BRAKE TRIGGER RELAYS (1A)
CUSTOMER "E15" POWER SUPPLY I MAX= 15A
ENGINE SPEED "W" ALTERNATOR TERMINAISON
TACHO VEHICUL SPEED (500mA)
SPEED PULSE
PTO 1 VALVE (1A)
ENGINE STOP
STOP
+24V
GENERAL COMMENT : PB1 AND PB2 CONNECTORS NO MORE EXIST. CONNECTORS HAVE TO BE GATHERED (ONE CONNECTOR XCBB1 AND OTHER ICBB1). IT WILL BE DONE IN THE NEXT RELEASE. (EXTENDED OFFER MERGE.)
T3084231


WIRING DIAGRAM NB
Body builder connector PB2
MAIN / 30
IGNITION / 15 / DR
S167
Switch, body builder disposal
S212
Switch, Tail lift
S126
Switch, Body builder, Machine ON
S125
Switch, Body builder, Ridge lighting
F66
10A
V02
1A
K02_P
20A
Relay, body builder machine on
PB2
CUSTOMER "E30" POWER SUPPLY I MAX= 3A
CONTROL HATCHBACK
INHIBIT REGULATION SUSPENSION
SPEED DEPEND DRIVING LEVEL OR KNEELING
REFUSE SECOND RSL SPEED LIMIT (6Km/h)
INHIBIT VI IMMOBILIZATION FOR CEN NORM
RSL SPEED LIMIT OR REFUSE RIPPER ON REAR BACK STEP
INHIBIT VI IMMOBILIZATION FOR CEN NORME
AUXILARY PUMP FEEDBACK PARKING HEATER
EQUIPMENT ALARM STOP (AL)
CHASSIS/EQUIPMENT (AL)
MACHINE WORKING POSITION (AL)
MACHINE ON CONTROL (4A)
CHASSIS LIGHTING CONTROL OR VALVE LIGHTING (4A)
CHASSIS LIGHTING OR VALVE LIGHTING
DUMPER CUTTING WIRE ON FRAME
PTO 1 "ON"
ONLY WITH TAIL LIFT
ONLY CEN NORME
CLUSTER
NOTE: IF THE 2 EMERGENCY SWITCHES S1 AND S2 ARE USED, THE ICBB2 TERMINAL 16 MUST NOT BE CONNECTED AND VICE VERSA
GENERAL COMMENT : PB1 AND PB2 CONNECTORS NO MORE EXIST. CONNECTORS HAVE TO BE GATHERED (ONE CONNECTOR XCBB1 AND OTHER ICBB1). IT WILL BE DONE IN THE NEXT RELEASE. (EXTENDED OFFER MERGE.)

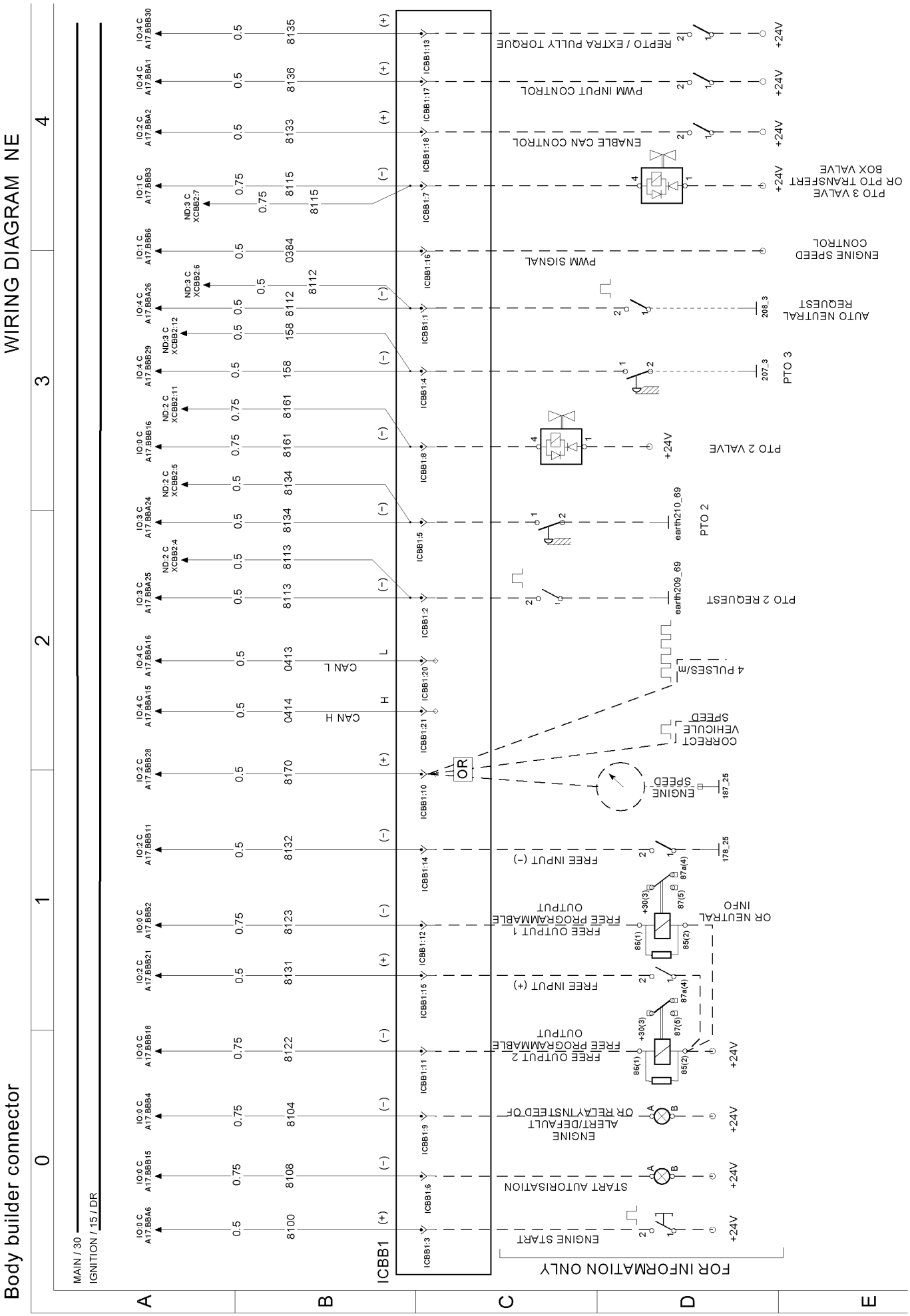
T3086180

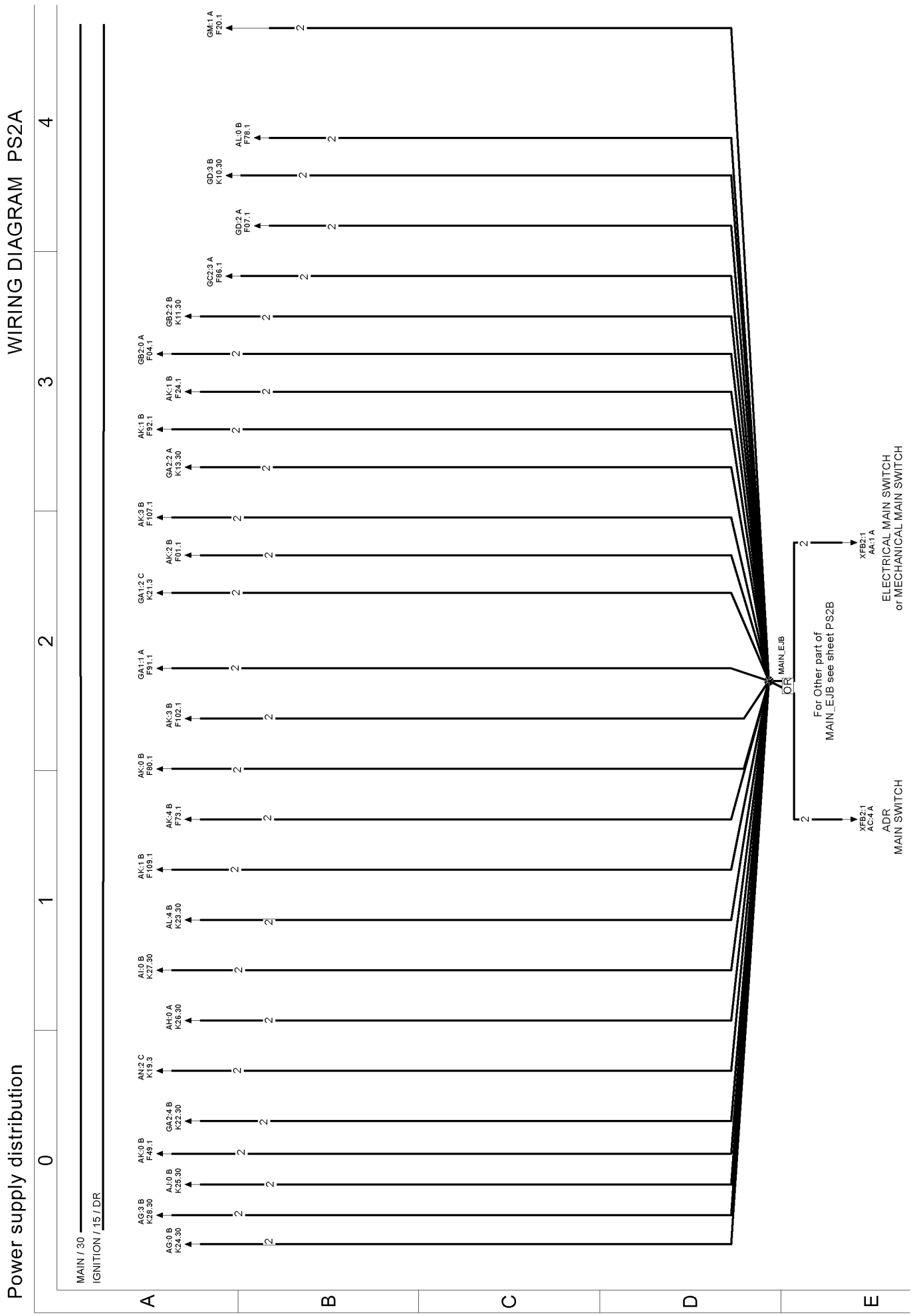

0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
A
B
C
D
E
AI:4 C F38.2
NA:1 B F65.2
GA2:4 B F89.2
GA2:4 B F67.2
IN:2 D XCH1:28
NB_1:2 B splice408_370
NB_1:0 B splice366_149
NB_1:0 B splice367_149
FRONT RIGHT FRAME GROUND
YA:0 D 5.7_1
275
208
667
668
0403
8116
0460
0461
2.5
1
XFB1:22
XFB1:25
XFB1:18
XFB1:9
XFB1:5
XFRC1:4
XFRC1:6
XFRC1:9
0.75
TAIL LIFT "NOT CLOSED"
TAIL LIFT CONTROL
X62
Connector,
Tail lift preparation
PB3
PB3:4
PB3:6
PB3:2
PB3:3
PB3:5
PB3:7
PB3:1
CUSTOMER "E15" POWER
SUPPLY I MAX= 15A
CUSTOMER "E30" POWER
SUPPLY I MAX= 15A
PARKING LIGHTING
RIGHT
I MAX= 5A
LEFT
I MAX= 5A
ALARM/RIGID CARGO TRAILER
(30mA MAX)

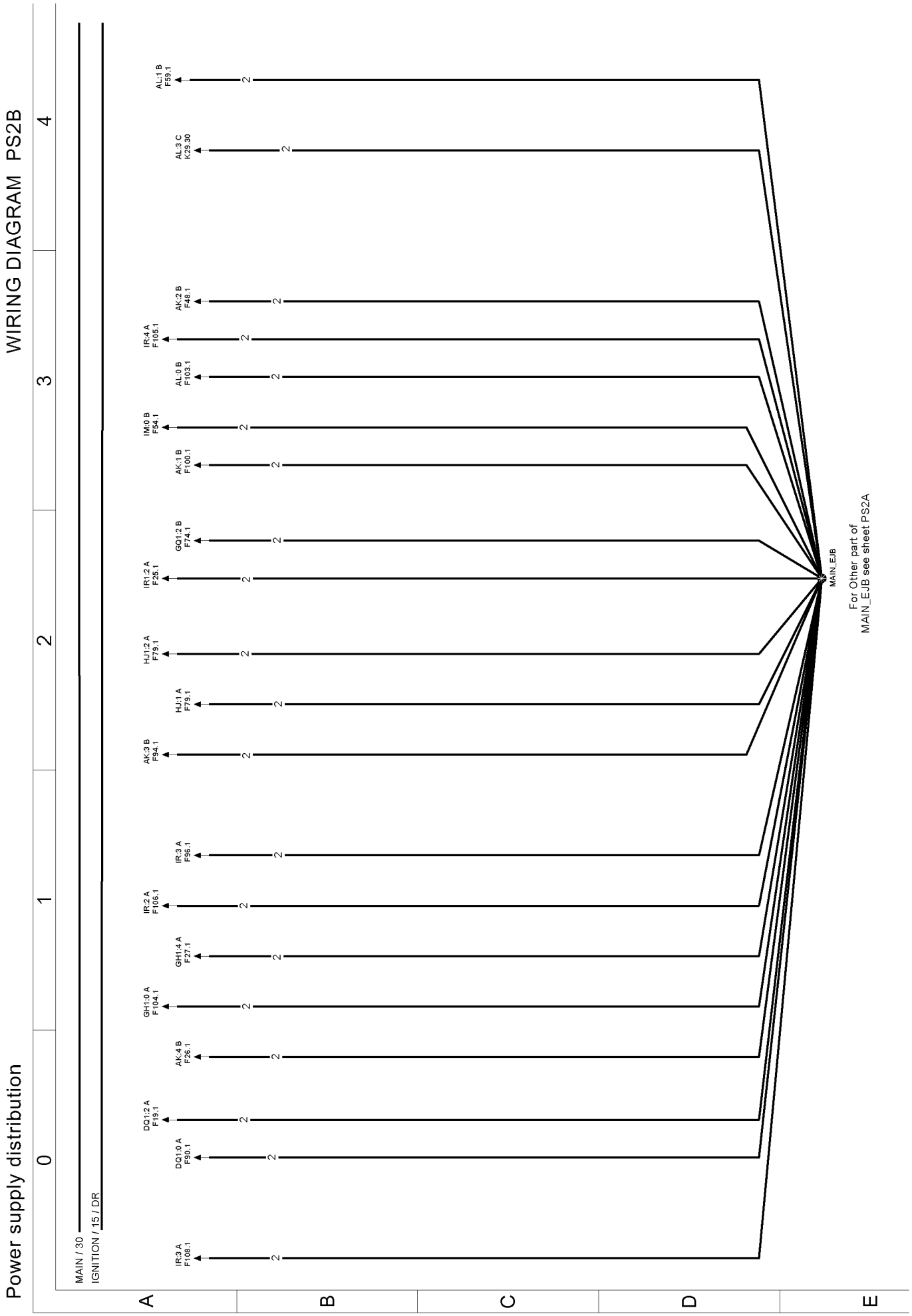
T3080939


WIRING DIAGRAM ND
Body builder connector PB4
0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
A
B
C
D
E
J1587-1
XA:2 C splice388_700
XA:2 C splice389_700
0010
0011
239_105
XCB2:17
XCB2:16
XCB2:22
A17.BBC2 IO:0 C
A17.BBC1 IO:0 C
A17.BBA14 IO:0 C
BBM ECU
PB4
DQ:4 C S137A.5
DQ:3 C XC304:11
DQ:2 C XC302:11
DQ:2 C Y18L1.4
0.5
0.75
8113
8134
8161
XCIG2:23
XFD1:28
XFD1:29
OR
XCB2:4
XCB2:5
XCB2:11
ICBB1:2 NE:2 C
ICBB1:5 NE:2 C
ICBB1:8 NE:3 C
REQUEST
FEEDBACK
VALVE
PTO 2
238_105
XCIG2:26
XCIG2:24
XCIG2:25
158
8112
8115
XCB2:12
XCB2:6
XCB2:7
A17.BBA12 IO:0 C
ICBB1:4 NE:3 C
ICBB1:1 NE:3 C
ICBB1:7 NE:4 C
FEEDBACK
REQUEST
VALVE
PTO 3 NMV OR TRANSFERT BOX

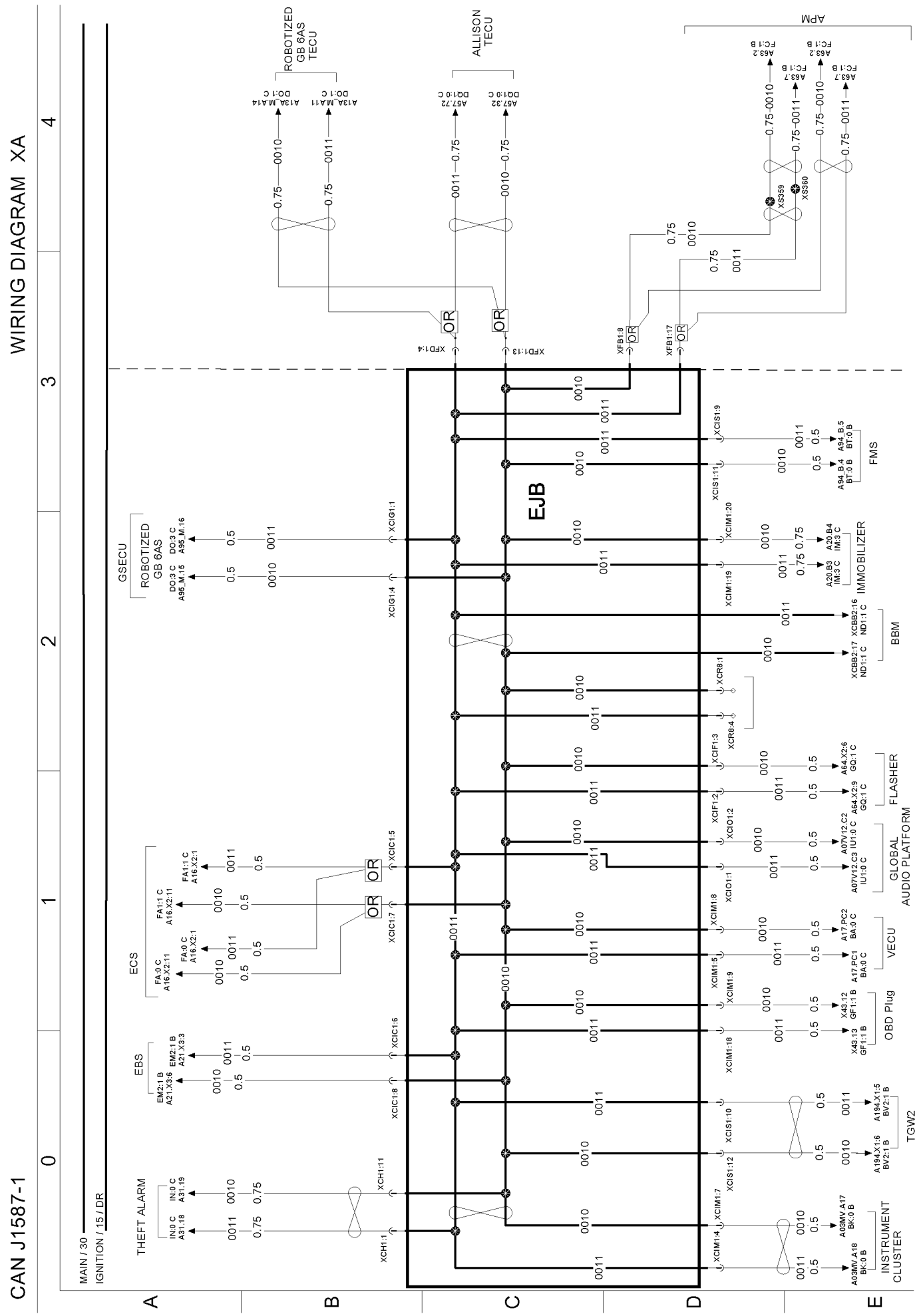
T3084234


0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
ICBB1
FOR INFORMATION ONLY
ENGINE START
START AUTORISATION
ENGINE ALERT/DEFAULT OR REACTIVATED OF
FREE OUTPUT 2 FREE PROGRAMMABLE OUTPUT
FREE INPUT (+)
FREE OUTPUT 1 FREE PROGRAMMABLE OUTPUT
FREE INPUT (-)
OR NEUTRAL INFO
ENGINE SPEED
CORRECT VEHICULE SPEED
4 PULSES/m
PTO 2 REQUEST
PTO 2
PTO 2 VALVE
PTO 3
AUTO NEUTRAL REQUEST
ENGINE SPEED CONTROL
PTO 3 VALVE OR PTO TRANSFERT BOX VALVE
ENABLE CAN CONTROL
PWM INPUT CONTROL
REPTO / EXTRA PULLY TORQUE
PWM SIGNAL
CAN H
CAN L
OR
+24V

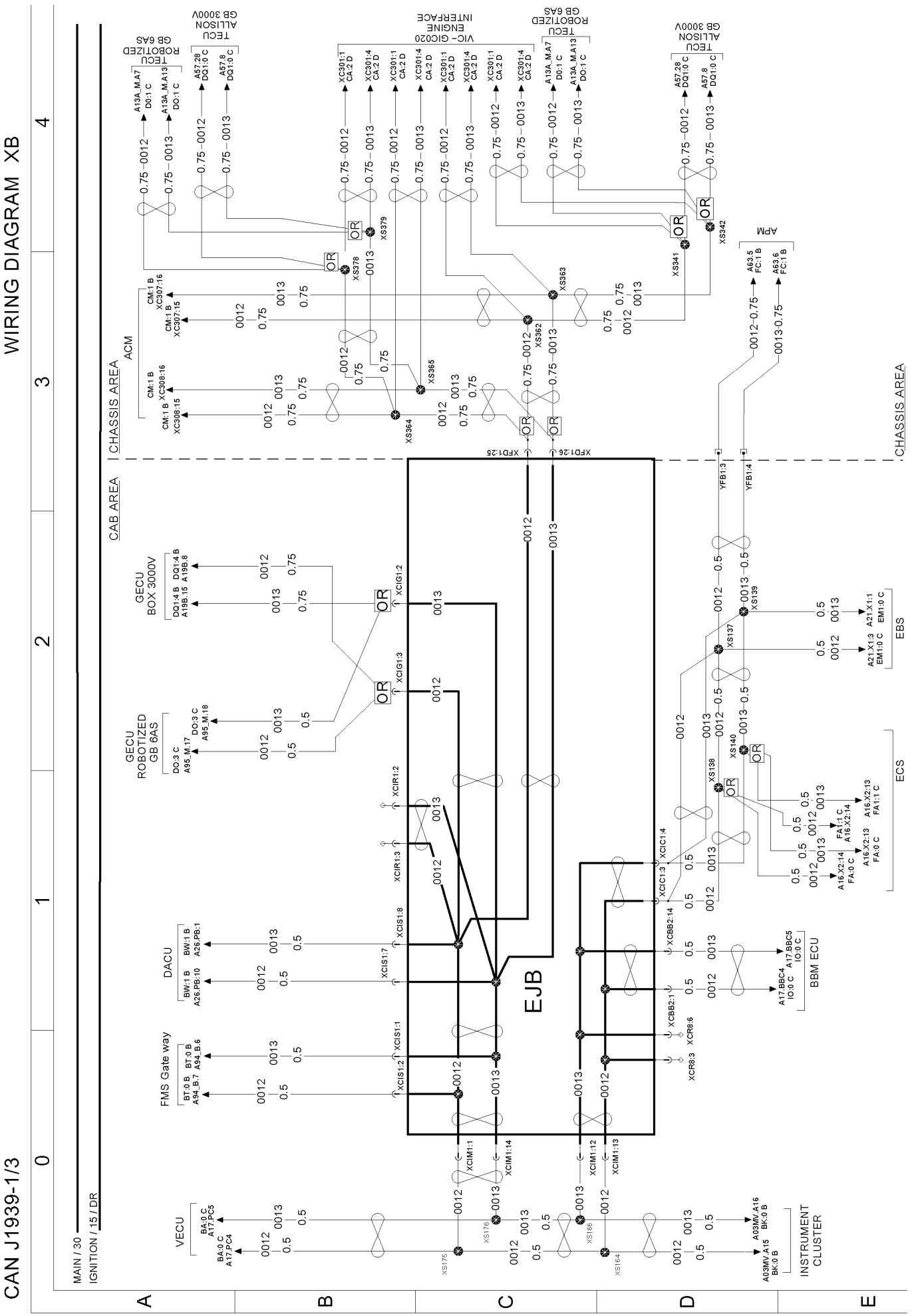

WIRING DIAGRAM PS2A
Power supply distribution
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
AG:3 B K28.30
AG:0 B K24.30
AJ:0 B K25.30
AK:0 B F49.1
GA2:4 B K22.30
AN:2 C K19.3
AH:0 A K26.30
AI:0 B K27.30
AL:4 B K23.30
AK:1 B F109.1
AK:4 B F73.1
AK:0 B F80.1
AK:3 B F102.1
GA1:1 A F91.1
GA1:2 C K21.3
AK:2 B F01.1
AK:3 B F107.1
GA2:2 A K13.30
AK:1 B F92.1
AK:1 B F24.1
GB2:0 A F04.1
GB2:2 B K11.30
GC2:3 A F86.1
GD:2 A F07.1
GD:3 B K10.30
AL:0 B F78.1
GM:1 A F20.1
MAIN_EJB
OR
For Other part of
MAIN_EJB see sheet PS2B
XFB2:1 AA:1 A
ELECTRICAL MAIN SWITCH
or MECHANICAL MAIN SWITCH
XFB2:1 AC:4 A
ADR
MAIN SWITCH
T3084236

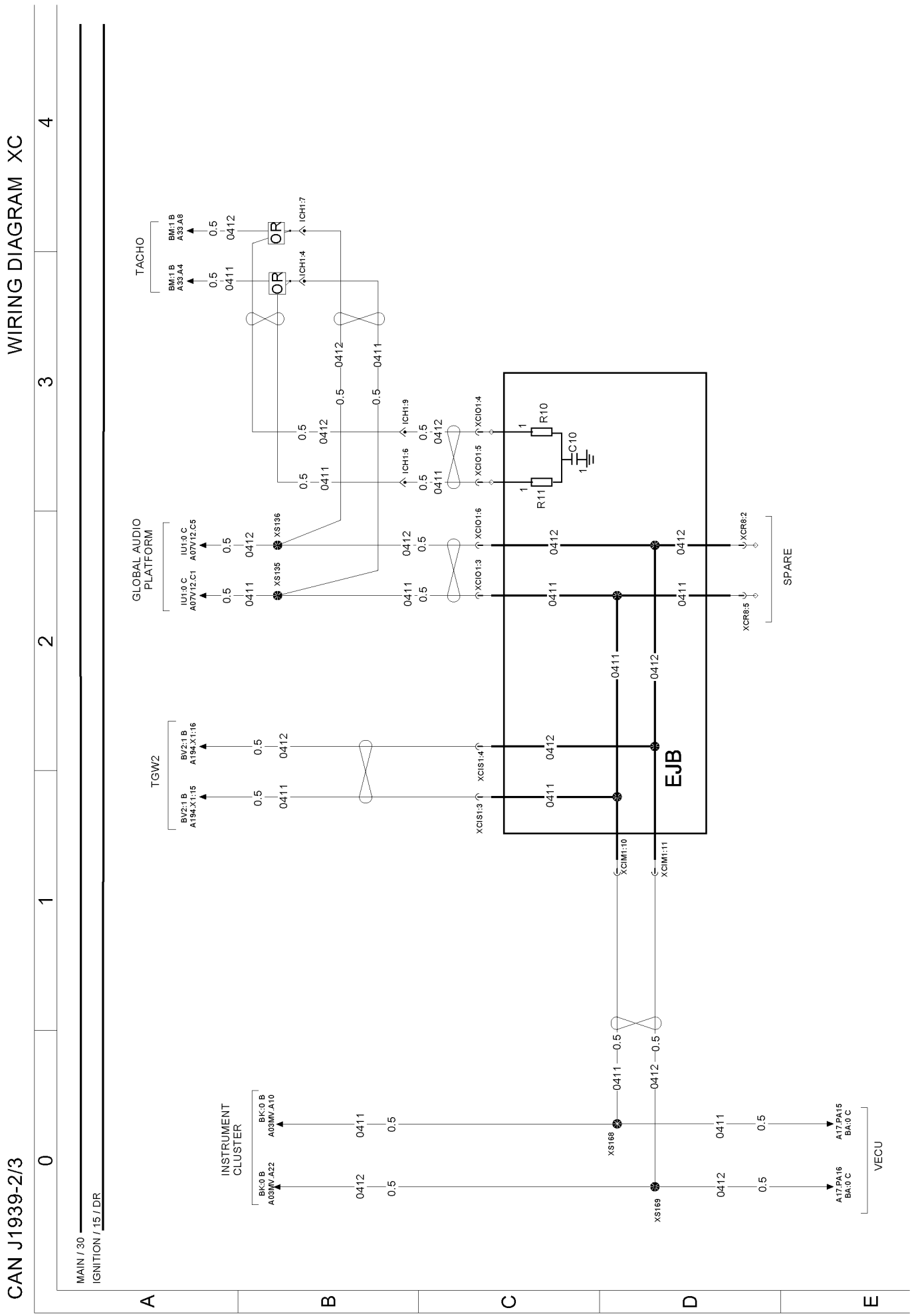

WIRING DIAGRAM PS2B
Power supply distribution
0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
IR:3 A F108.1
DQ:0 A F90.1
DQ:2 A F19.1
AK:4 B F26.1
GH:0 A F104.1
GH:4 A F27.1
IR:2 A F106.1
IR:3 A F96.1
AK:3 B F94.1
HJ:1 A F79.1
HJ:2 A F79.1
IR:2 A F25.1
GQ:2 B F74.1
AK:1 B F100.1
IM:0 B F54.1
AL:0 B F103.1
IR:4 A F105.1
AK:2 B F48.1
AL:3 C K29.30
AL:1 B F59.1
2
MAIN_EJB
For Other part of
MAIN_EJB see sheet PS2A

T3084237

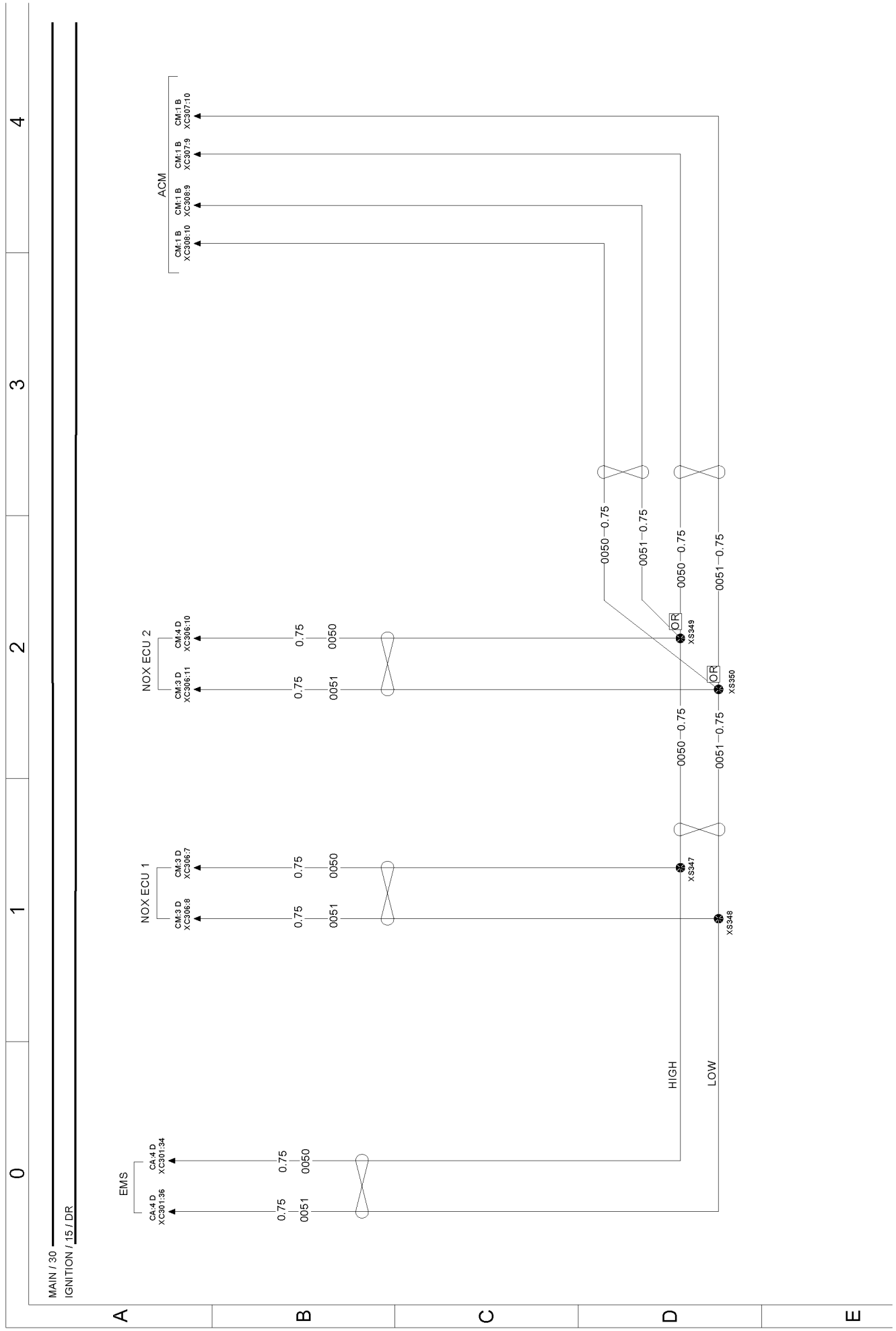

CAN J1587-1
WIRING DIAGRAM XA
MAIN / 30
IGNITION / 15 / DR
THEFT ALARM
EBS
ECS
GSECU
ROBOTIZED GB 6AS
ROBOTIZED GB 6AS TECU
ALLISON TECU
APM
EJB
FMS
IMMOBILIZER
BBM
FLASHER
GLOBAL AUDIO PLATFORM
VECU
OBD Plug
TGW2
INSTRUMENT CLUSTER
OR

T3093226

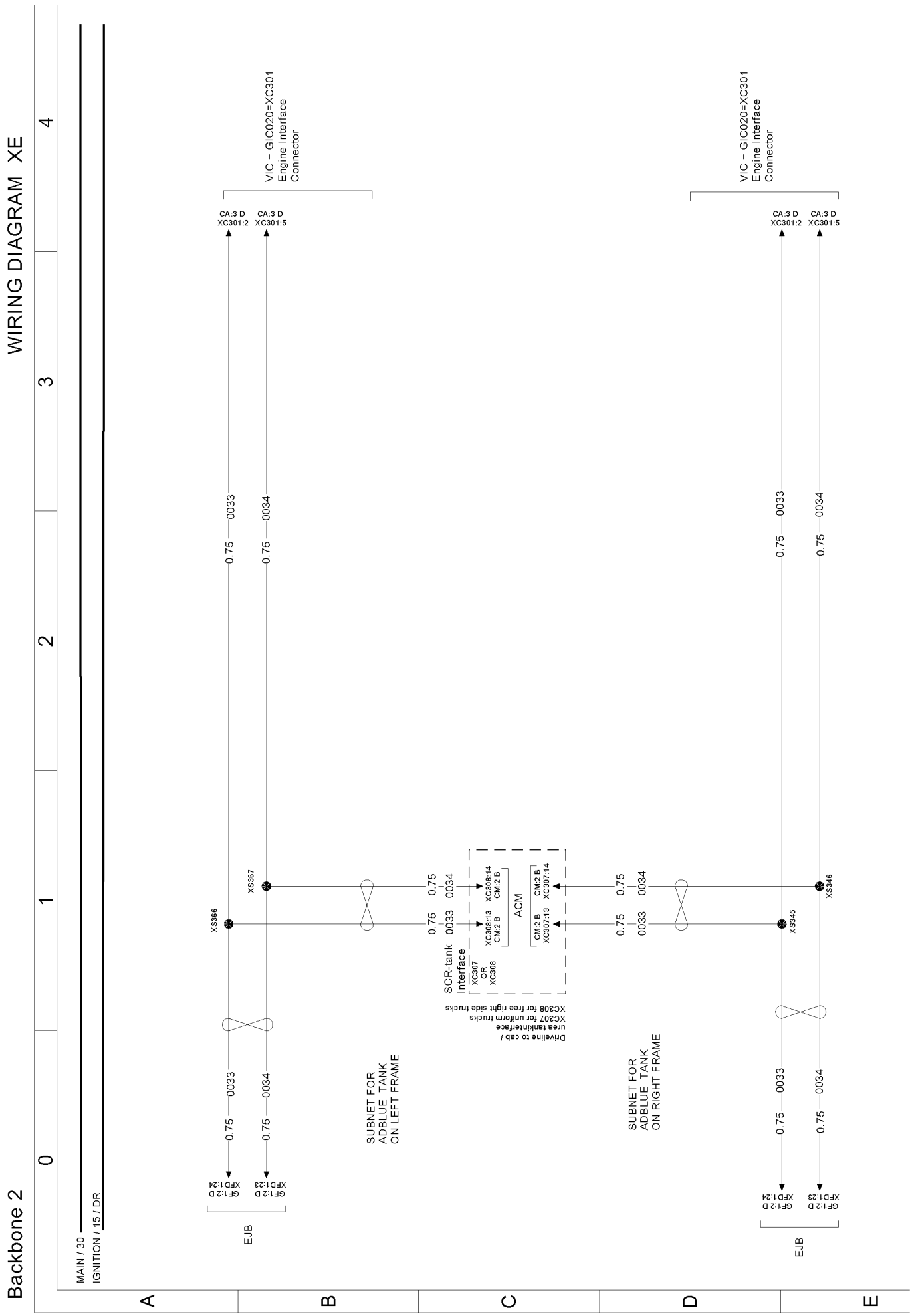

MAIN / 30
IGNITION / 15 / DR
CHASSIS AREA
CAB AREA
ACM
TECU ROBOTIZED GB 6AS
TECU ALLISON GB 3000V
VIC- GIC020 ENGINE INTERFACE
APM
GECU BOX 3000V
GECU ROBOTIZED GB 6AS
DACU
FMS Gate way
VECU
EJB
EBS
ECS
BBM ECU
INSTRUMENT CLUSTER


CAN J1939-2/3
WIRING DIAGRAM XC
MAIN / 30
IGNITION / 15 / DR
TACHO
BM:1 B A33.A4
BM:1 B A33.A8
OR
ICH1:4
ICH1:7
GLOBAL AUDIO PLATFORM
IU1:0 C A07V12.C1
IU1:0 C A07V12.C5
XS135
XS136
ICH1:6
ICH1:9
XCIO1:3
XCIO1:4
XCIO1:5
XCIO1:6
R10
R11
C10
TGW2
BV2:1 B A194.X1:15
BV2:1 B A194.X1:16
XCIS1:3
XCIS1:4
EJB
XCIM1:10
XCIM1:11
XCR8:2
XCR8:5
SPARE
INSTRUMENT CLUSTER
BK:0 B A03MV.A22
BK:0 B A03MV.A10
XS168
XS169
A17.PA15 BA:0 C
A17.PA16 BA:0 C
VECU
0411
0412
0.5

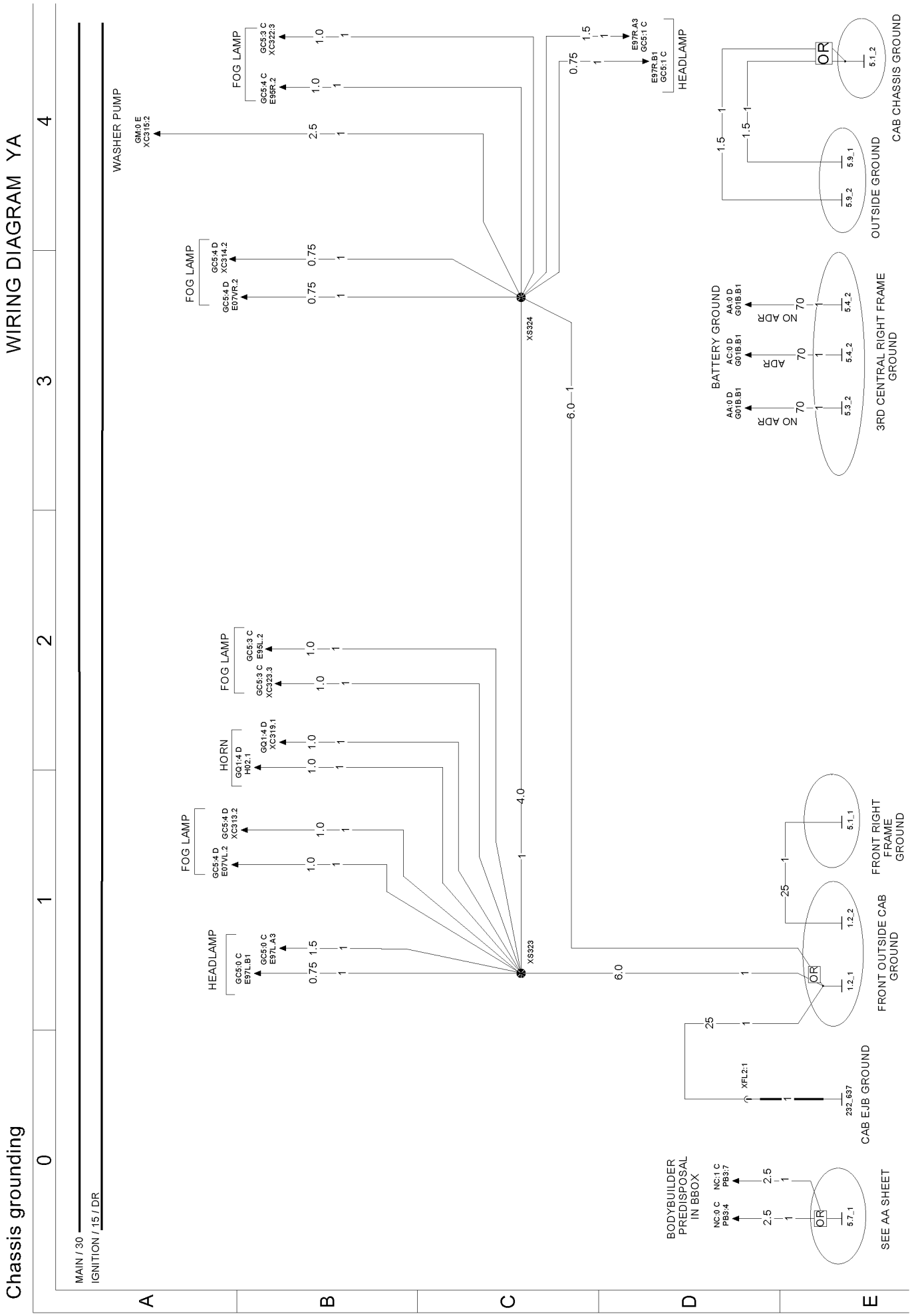
T3093216

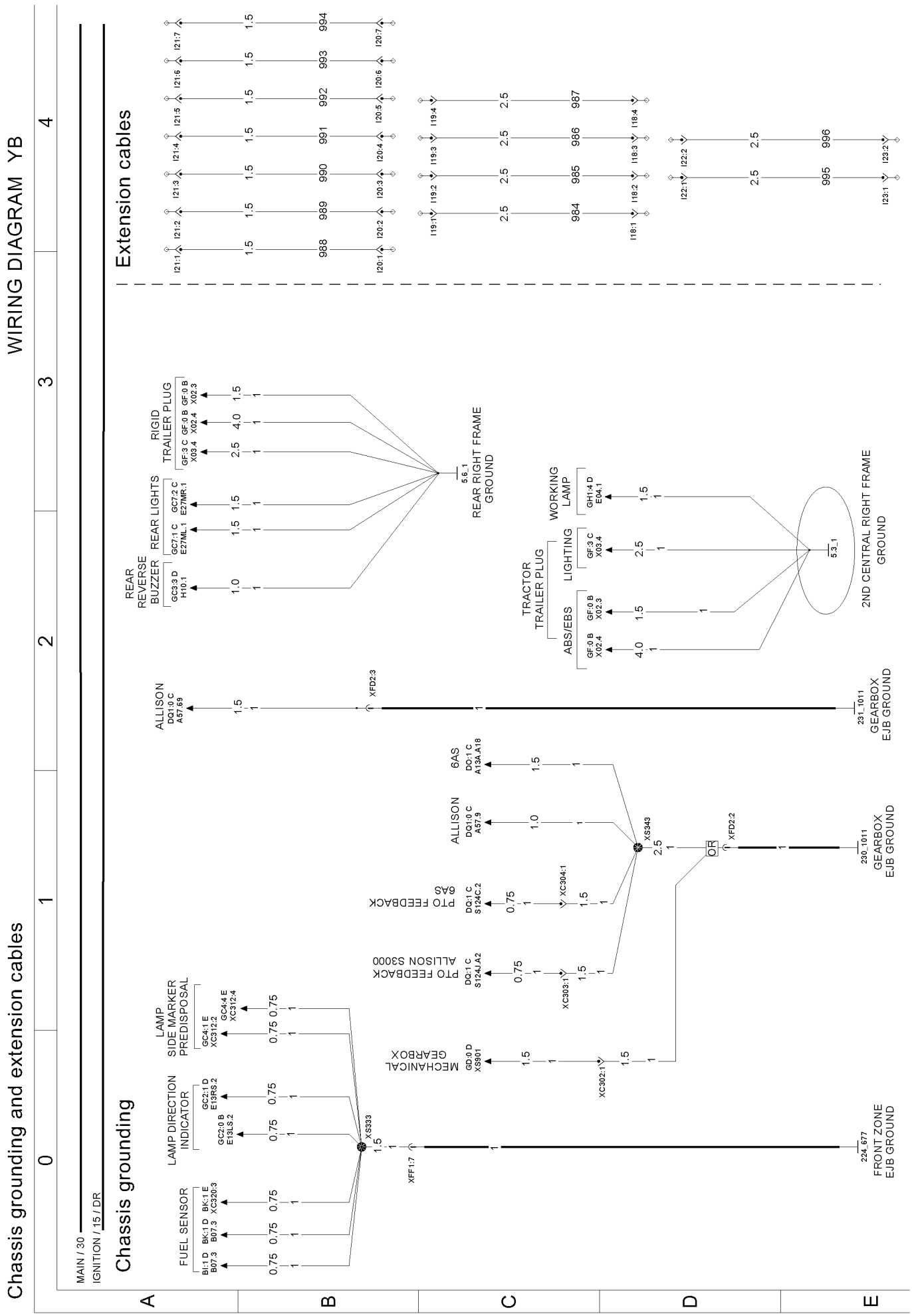

0
1
2
3
4
A
B
C
D
E
MAIN / 30
IGNITION / 15 / DR
EMS
CA:4 D XC301:36
CA:4 D XC301:34
0.75
0051
0050
NOX ECU 1
CM:3 D XC306:8
CM:3 D XC306:7
NOX ECU 2
CM:3 D XC306:11
CM:4 D XC306:10
ACM
CM:1 B XC308:10
CM:1 B XC308:9
CM:1 B XC307:9
CM:1 B XC307:10
HIGH
LOW
OR
XS347
XS348
XS349
XS350

T3080947


WIRING DIAGRAM XE
Backbone 2
MAIN / 30
IGNITION / 15 / DR
VIC – GIC020=XC301
Engine Interface
Connector
CA:3 D
XC301:2
CA:3 D
XC301:5
0.75
0033
0034
XS366
XS367
XS345
XS346
SUBNET FOR
ADBLUE TANK
ON LEFT FRAME
SUBNET FOR
ADBLUE TANK
ON RIGHT FRAME
SCR-tank
Interface
XC307
OR
XC308
XC308:13
CM:2 B
XC308:14
CM:2 B
ACM
CM:2 B
XC307:13
CM:2 B
XC307:14
Driveline to cab /
urea tankinterface
XC307 for uniform trucks
XC308 for free right side trucks
GF1:2 D
XFD1:24
GF1:2 D
XFD1:23
EJB

T3084242


Chassis grounding
WIRING DIAGRAM YA
0
1
2
3
4
MAIN / 30
IGNITION / 15 / DR
WASHER PUMP
GM:0 E
XC315:2
FOG LAMP
GC5:4 C
E95R.2
GC5:3 C
XC322:3
FOG LAMP
GC5:4 D
XC314.2
GC5:4 D
E07VR.2
HEADLAMP
GC5:1 C
E97R.A3
E97R.B1
XS324
FOG LAMP
GC5:3 C
E95L.2
GC5:3 C
XC323.3
HORN
GQ1:4 D
XC319.1
GQ1:4 D
H02:1
FOG LAMP
GC5:4 D
XC313.2
GC5:4 D
E07VL.2
HEADLAMP
GC5:0 C
E97L.A3
GC5:0 C
E97L.B1
XS323
BATTERY GROUND
AA:0 D
G01B.B1
AC:0 D
G01B.B1
AA:0 D
G01B.B1
NO ADR
ADR
NO ADR
3RD CENTRAL RIGHT FRAME GROUND
OUTSIDE GROUND
CAB CHASSIS GROUND
FRONT RIGHT FRAME GROUND
FRONT OUTSIDE CAB GROUND
CAB EJB GROUND
XFL2:1
BODYBUILDER PREDISPOSAL IN BBOX
NC:0 C
PB3.4
NC:1 C
PB3.7
SEE AA SHEET
A
B
C
D
E
T3084243


MAIN / 30
IGNITION / 15 / DR
Chassis grounding
Extension cables
FUEL SENSOR
LAMP DIRECTION INDICATOR
LAMP SIDE MARKER PREDISPOSAL
MECHANICAL GEARBOX
PTO FEEDBACK ALLISON S3000
PTO FEEDBACK 6AS
ALLISON
6AS
ALLISON
REAR REVERSE BUZZER
REAR LIGHTS
RIGID TRAILER PLUG
TRACTOR TRAILER PLUG
ABS/EBS
LIGHTING
WORKING LAMP
REAR RIGHT FRAME GROUND
2ND CENTRAL RIGHT FRAME GROUND
GEARBOX EJB GROUND
FRONT ZONE EJB GROUND
XS333
XS343
XFF1:7
XFD2:3
XFD2:2
XC302:1
XC303:1
XC304:1
OR

T3084850

Illustrations index

-	Antenna	“ ”, page 97
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-	Switches	“ ”, page 104
1000	Wiring harness, instruments	“ ”, page 106
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1007	Wiring harness, floor	“ ”, page 115
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1047	Wiring harness, roof beacon light	“ ”, page 130
1057	Wiring harness, chassis	“ ”, page 131
		“ ”, page 141
1063	Wiring harness, trailer connections	“ ”, page 126
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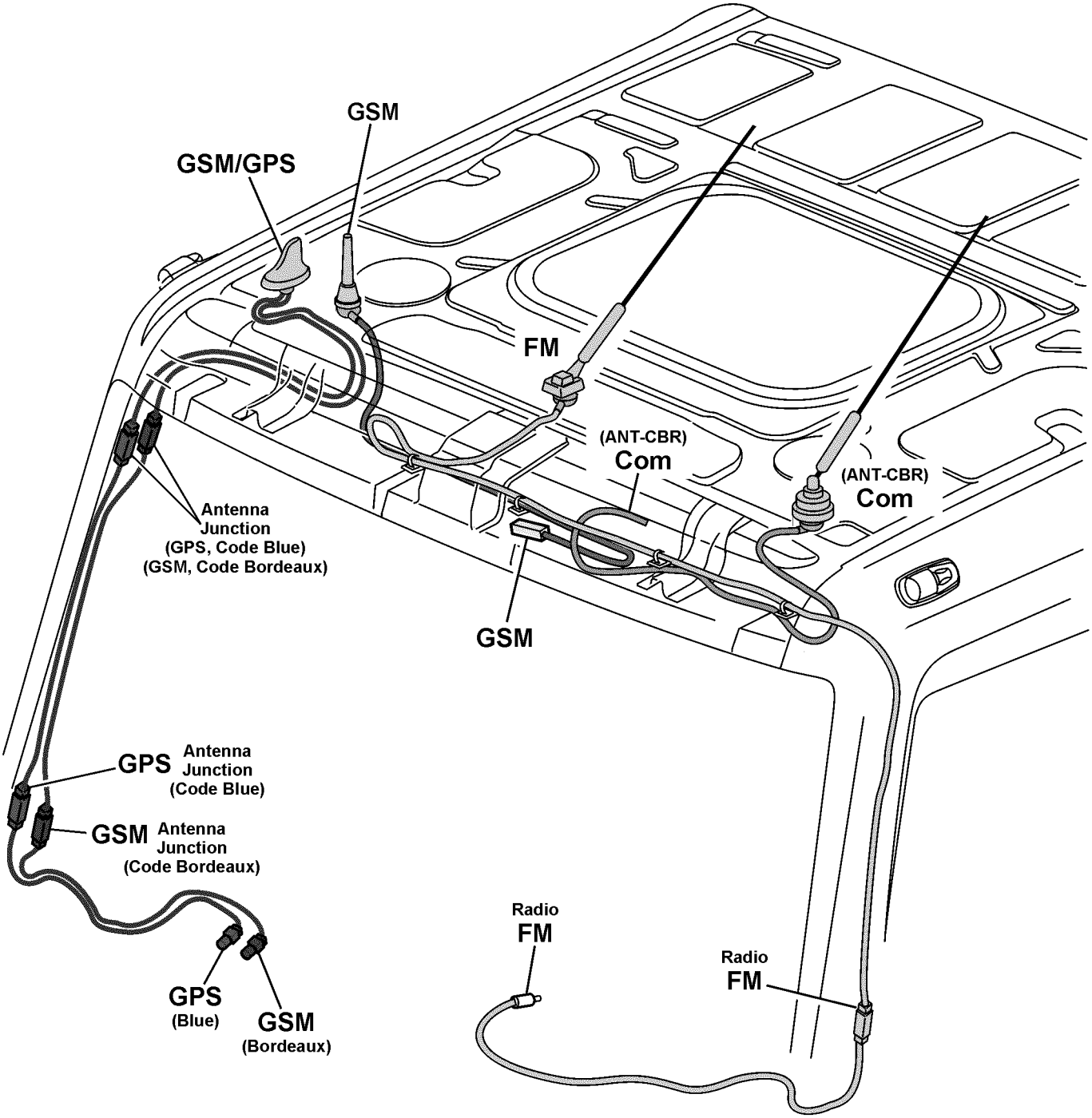
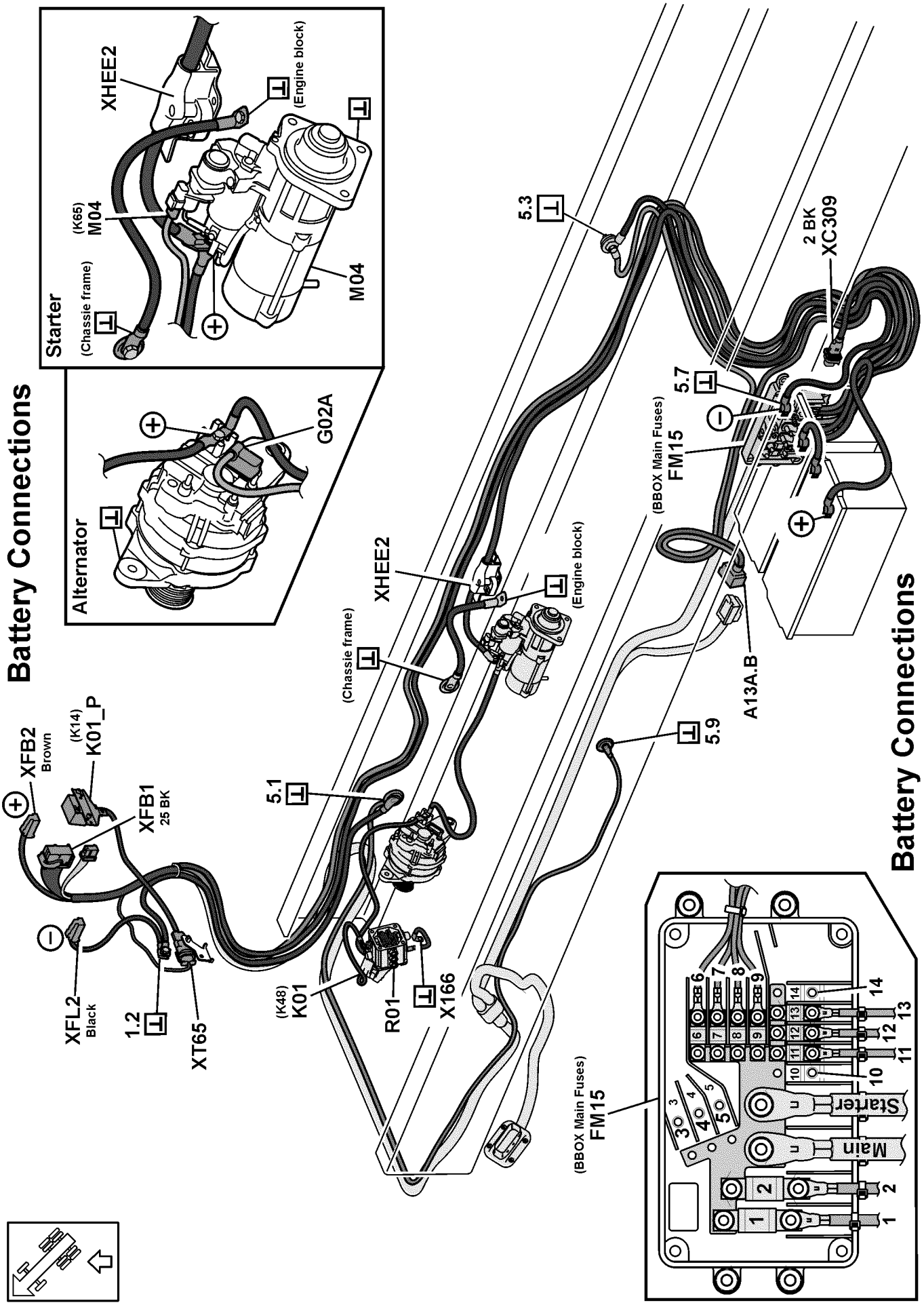
1460	Wiring harness, cab-battery box	“ ”, page 137
1494	Wiring harness, gearbox	“ ”, page 141
1501	Wiring harness, upper front	“ ”, page 144

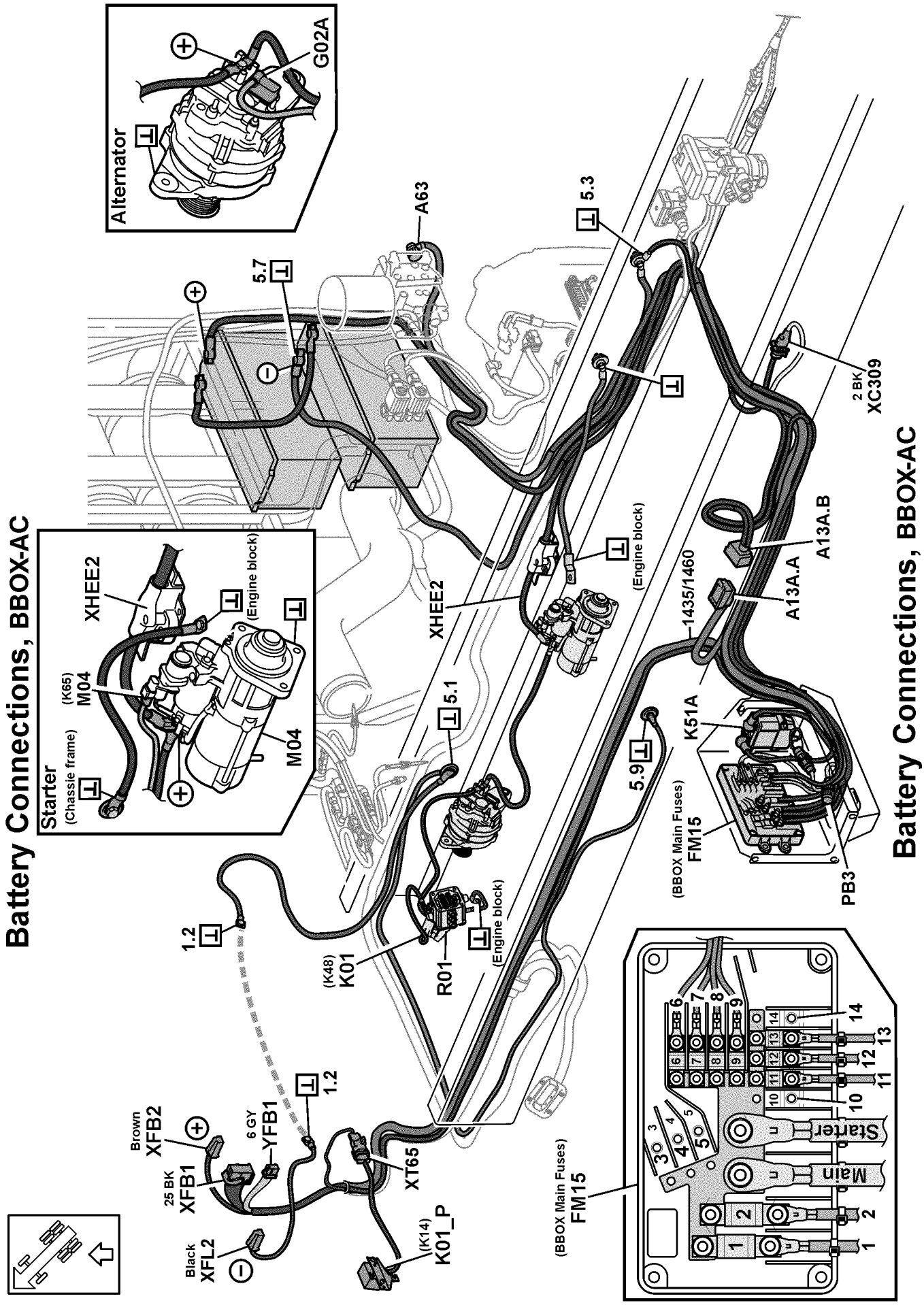
Illustrations

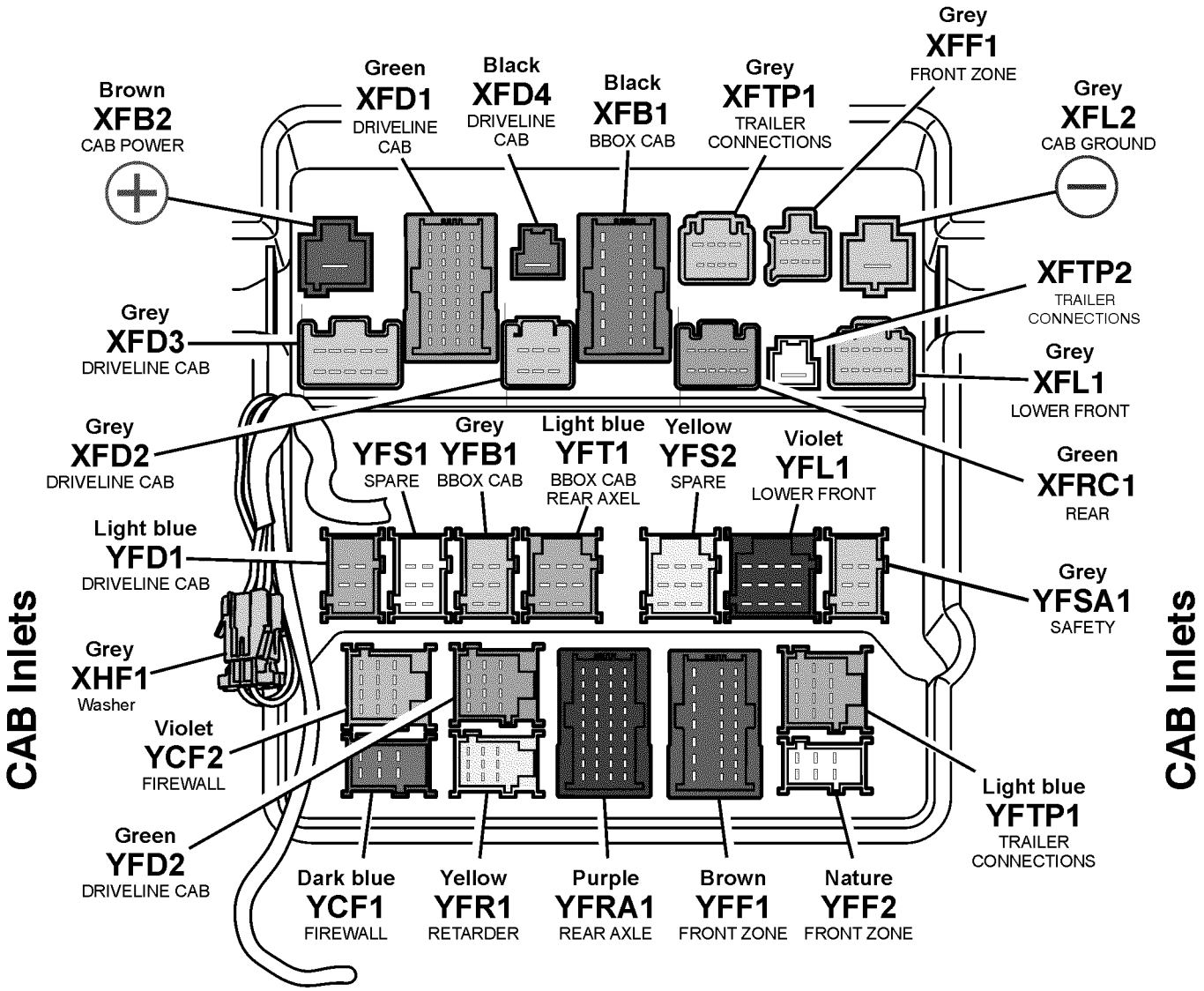


T3094029

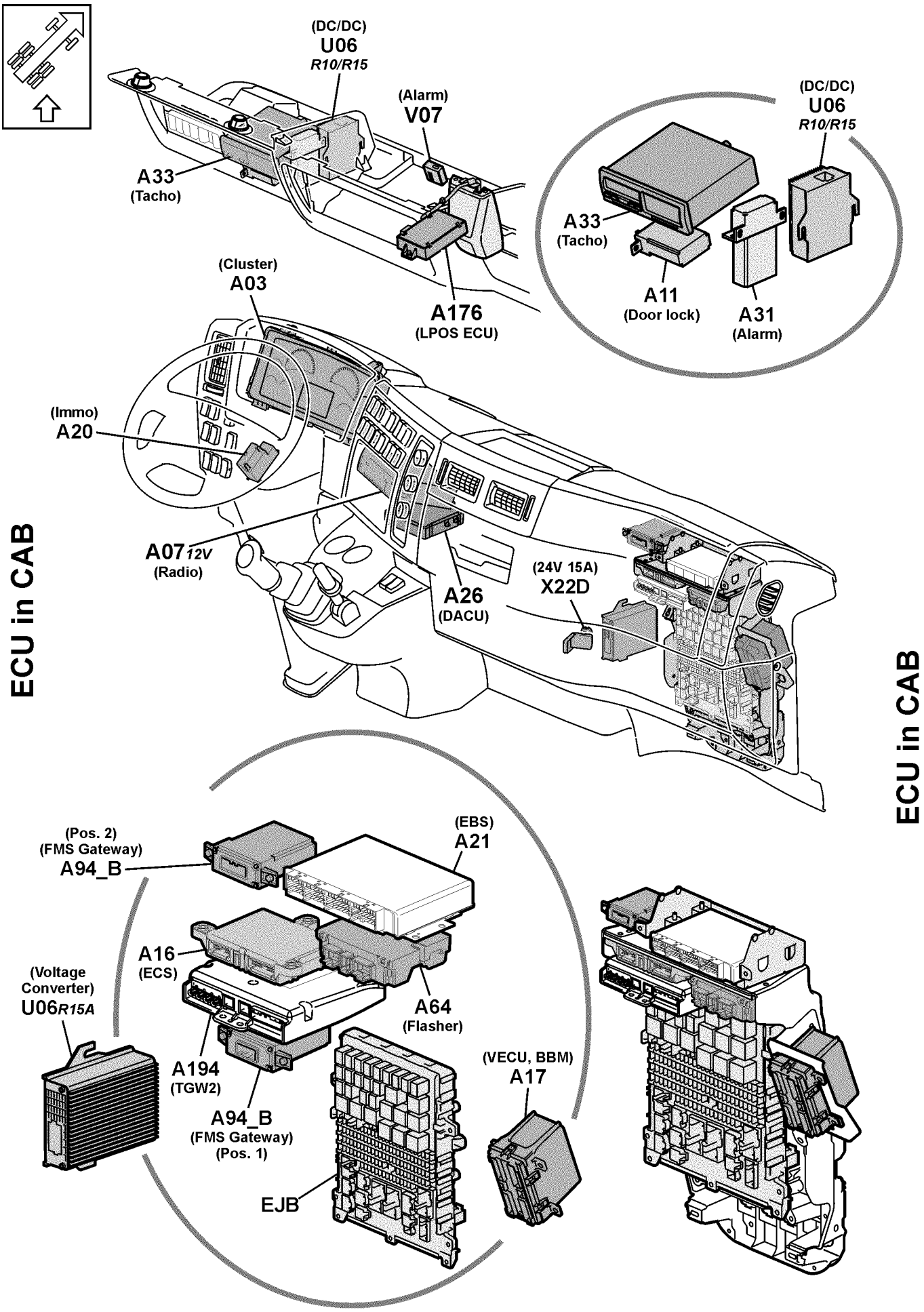

Battery Connections
Starter
(Chassie frame)
(K65)
M04
XHEE2
(Engine block)
M04
Alternator
G02A
XFB2
Brown
(K14)
K01_P
XFB1
25 BK
XFL2
Black
1.2
XT65
5.1
(K48)
K01
R01
X166
(Chassie frame)
XHEE2
(Engine block)
5.3
5.7
(BBOX Main Fuses)
FM15
2 BK
XC309
A13A.B
5.9
Battery Connections
(BBOX Main Fuses)
FM15
Starter
Main
1
2
3
4
5
6
7
8
9
10
11
12
13
14

T3084652

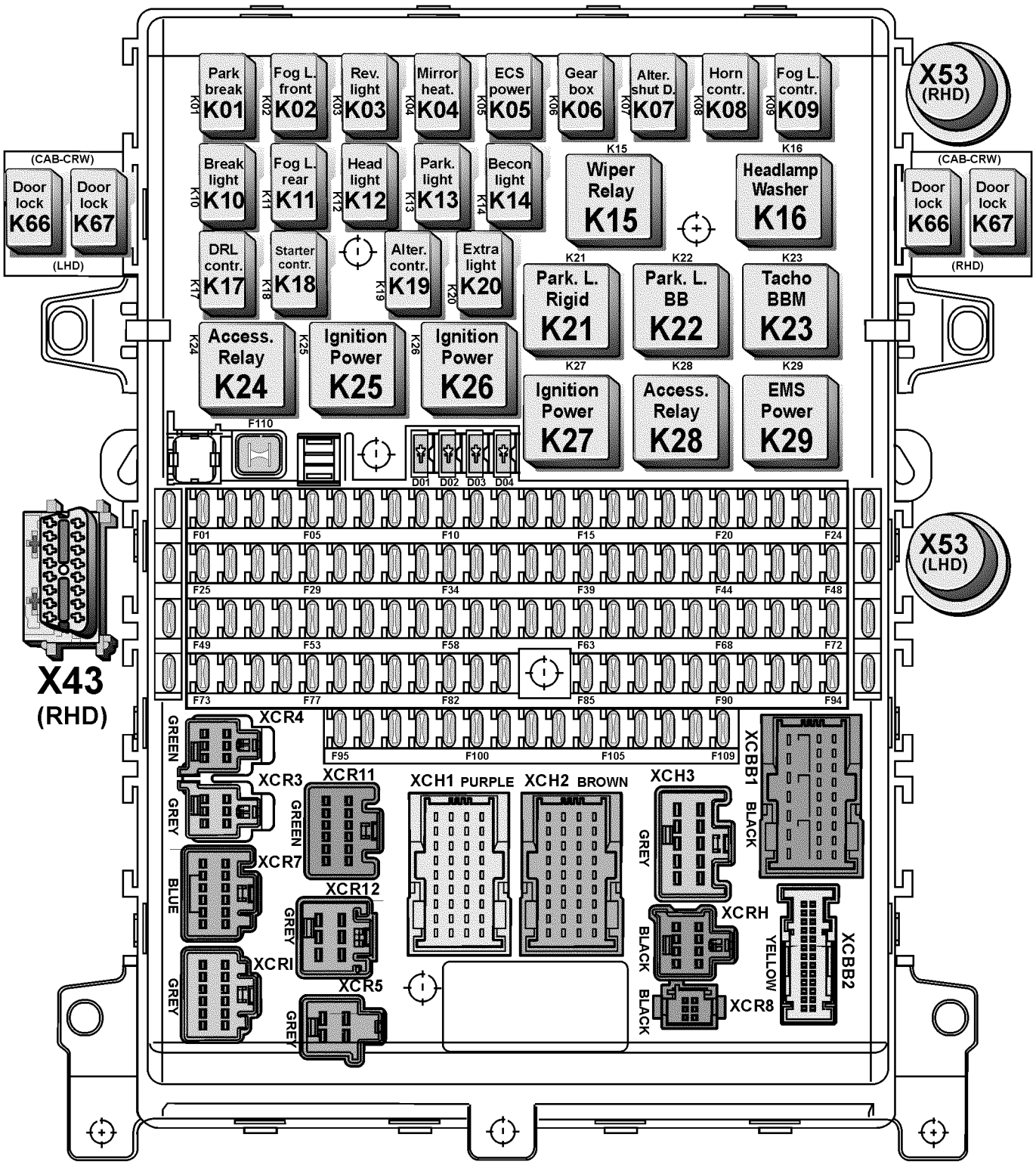

Battery Connections, BBOX-AC
Alternator
G02A
Starter
(Chassie frame)
(K65)
M04
XHEE2
(Engine block)
M04
5.7
A63
5.3
XHEE2
(Engine block)
5.1
(K48)
K01
R01
(Engine block)
1.2
1.2
Brown
XFB2
25 BK
XFB1
6 GY
YFB1
Black
XFL2
XT65
(K14)
K01_P
(BBOX Main Fuses)
FM15
5.9
1435/1460
A13A.A
A13A.B
2 BK
XC309
K51A
(BBOX Main Fuses)
FM15
PB3
Battery Connections, BBOX-AC
Starter
Main
T3102198


Brown
XFB2
CAB POWER
Green
XFD1
DRIVELINE CAB
Black
XFD4
DRIVELINE CAB
Black
XFB1
BBOX CAB
Grey
XFTP1
TRAILER CONNECTIONS
Grey
XFF1
FRONT ZONE
Grey
XFL2
CAB GROUND
XFTP2
TRAILER CONNECTIONS
Grey
XFD3
DRIVELINE CAB
Grey
XFL1
LOWER FRONT
Grey
XFD2
DRIVELINE CAB
Grey
YFS1
SPARE
Grey
YFB1
BBOX CAB
Light blue
YFT1
BBOX CAB REAR AXEL
Yellow
YFS2
SPARE
Violet
YFL1
LOWER FRONT
Green
XFRC1
REAR
Light blue
YFD1
DRIVELINE CAB
Grey
YFSA1
SAFETY
Grey
XHF1
Washer
Violet
YCF2
FIREWALL
Green
YFD2
DRIVELINE CAB
Light blue
YFTP1
TRAILER CONNECTIONS
Dark blue
YCF1
FIREWALL
Yellow
YFR1
RETARDER
Purple
YFRA1
REAR AXLE
Brown
YFF1
FRONT ZONE
Nature
YFF2
FRONT ZONE
CAB Inlets
CAB Inlets

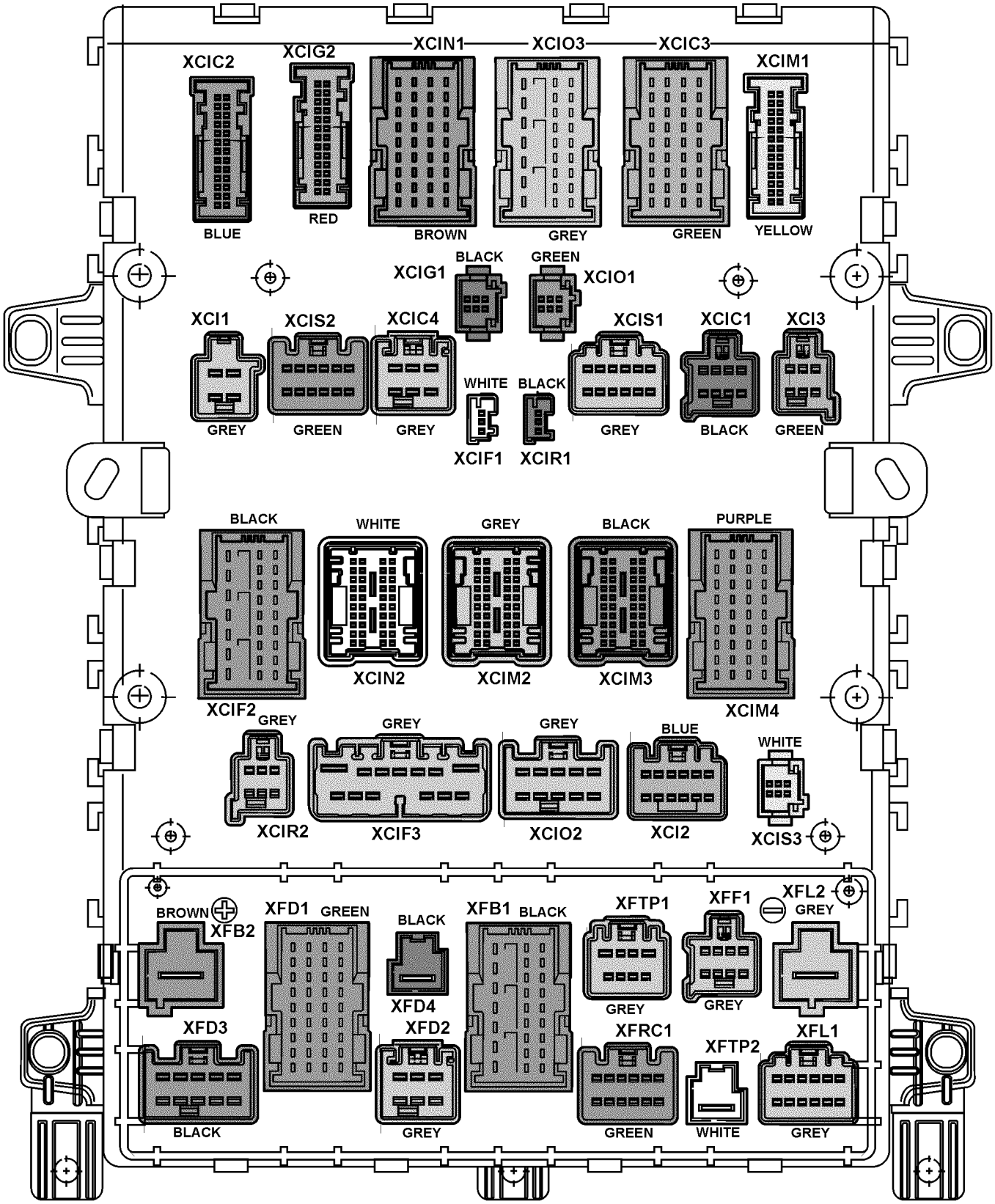
T3084653


(DC/DC)
U06
R10/R15
(Alarm)
V07
A33
(Tacho)
A176
(LPOS ECU)
(DC/DC)
U06
R10/R15
A33
(Tacho)
A11
(Door lock)
A31
(Alarm)
(Cluster)
A03
(Immo)
A20
A07 12V
(Radio)
A26
(DACU)
(24V 15A)
X22D
ECU in CAB
ECU in CAB
(Pos. 2)
(FMS Gateway)
A94_B
(EBS)
A21
A16
(ECS)
(Voltage
Converter)
U06R15A
A64
(Flasher)
A194
(TGW2)
A94_B
(FMS Gateway)
(Pos. 1)
(VECU, BBM)
A17
EJB

T3101549


Park break K01
Fog L. front K02
Rev. light K03
Mirror heat. K04
ECS power K05
Gear box K06
Alter. shut D. K07
Horn contr. K08
Fog L. contr. K09
X53 (RHD)
(CAB-CRW)
Door lock K66
Door lock K67
(LHD)
Break light K10
Fog L. rear K11
Head light K12
Park. light K13
Becon light K14
Wiper Relay K15
Headlamp Washer K16
DRL contr. K17
Starter contr. K18
Alter. contr. K19
Extra light K20
Park. L. Rigid K21
Park. L. BB K22
Tacho BBM K23
Access. Relay K24
Ignition Power K25
Ignition Power K26
Ignition Power K27
Access. Relay K28
EMS Power K29
F110
D01 D02 D03 D04
X53 (LHD)
X43 (RHD)
XCR4
GREEN
XCR3
GREY
XCR11
GREEN
XCH1 PURPLE
XCH2 BROWN
XCH3
GREY
XCBB1
BLACK
XCR7
BLUE
XCR12
GREY
XCRH
BLACK
YELLOW
XCBB2
XCRI
GREY
XCR5
GREY
XCR8
BLACK

T3091048


XCIN1
XCIO3
XCIC3
XCIC2
XCIG2
XCIM1
BLUE
RED
BROWN
GREY
GREEN
YELLOW
BLACK
GREEN
XCIG1
XCIO1
XCI1
XCIS2
XCIC4
XCIS1
XCIC1
XCI3
WHITE
BLACK
GREY
GREEN
GREY
GREY
BLACK
GREEN
XCIF1
XCIR1
BLACK
WHITE
GREY
BLACK
PURPLE
XCIF2
XCIN2
XCIM2
XCIM3
XCIM4
GREY
GREY
GREY
BLUE
WHITE
XCIR2
XCIF3
XCIO2
XCI2
XCIS3
BROWN
XFB2
XFD1
GREEN
BLACK
XFD4
XFB1
BLACK
XFTP1
XFF1
XFL2
GREY
GREY
GREY
XFD3
XFD2
XFRC1
XFTP2
XFL1
BLACK
GREY
GREEN
WHITE
GREY
T3084569

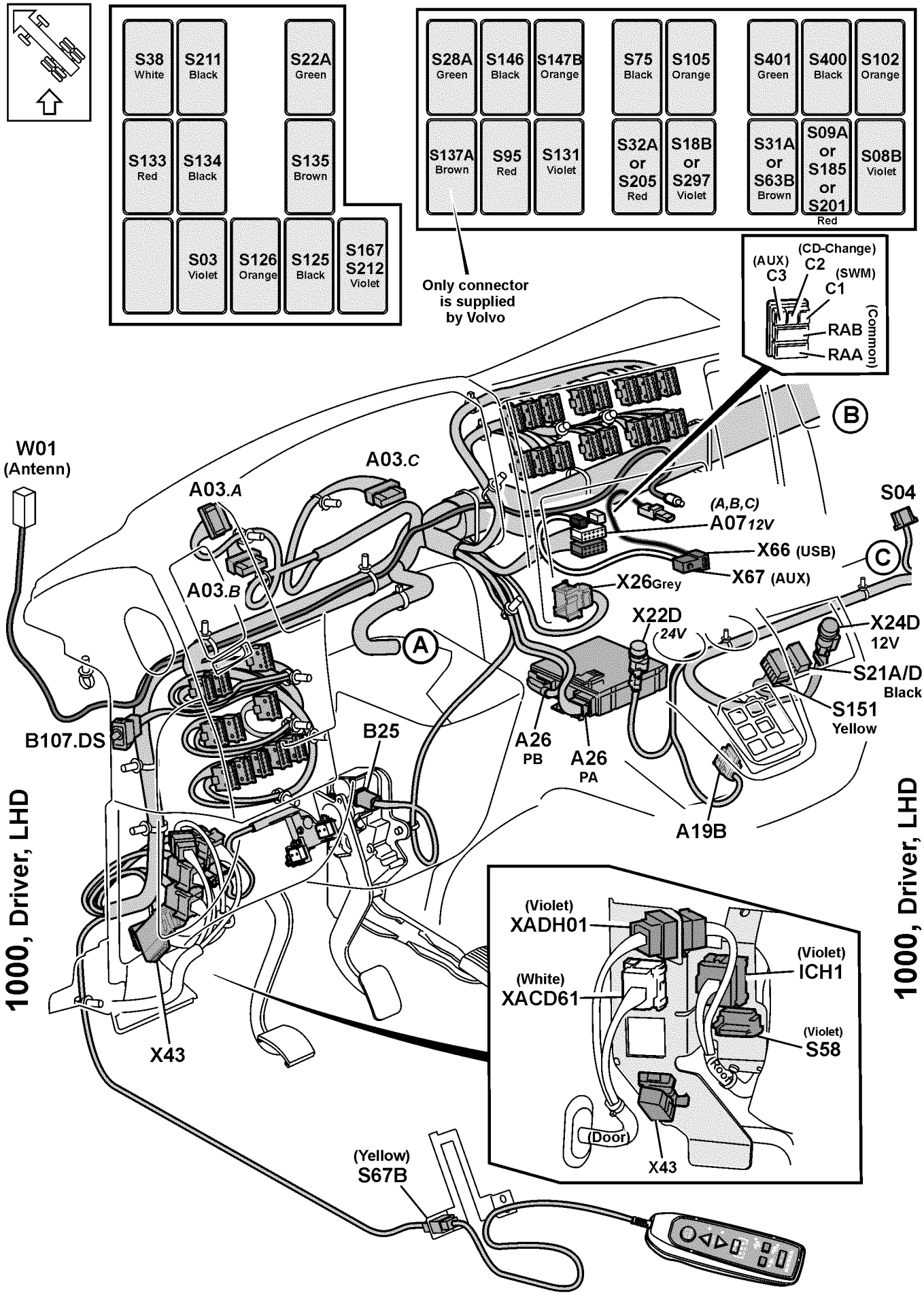
Switches

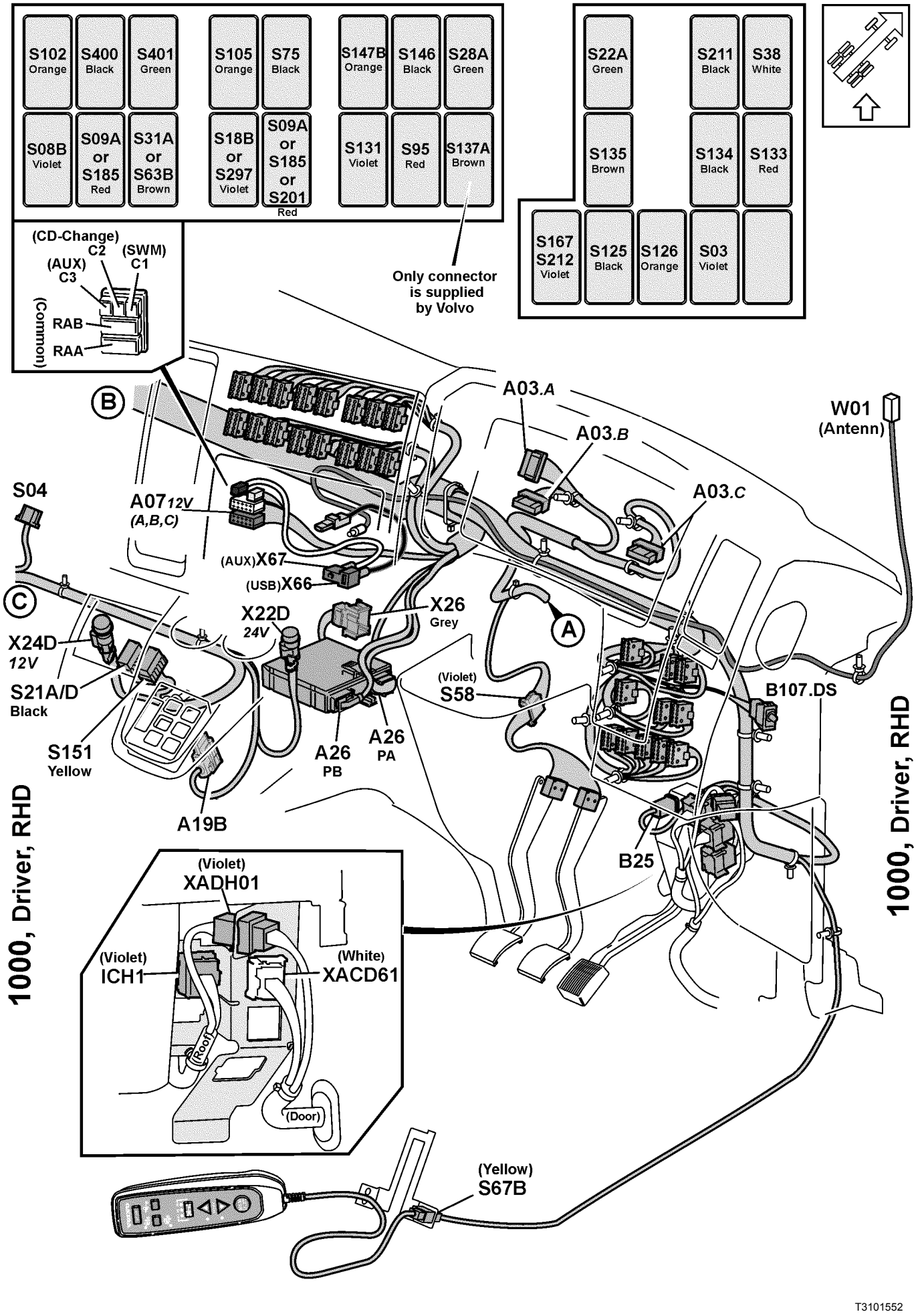
Violet **S03** Work lamps loading lamps	Orange **S08A** Differential lock rear axle	Violet **S18B** Differential lock front wheels	Orange **S21A** Parking heater	Green **S22** Levelling control Headlights	Red **S23** Roof hatch
White **S28A** Power take off 1	White **S31A** Traction control	Black **S32A** Hill start aid	Brown **S33** Trailer brake	White **S38** ADR, Emergency switch	Brown **S63B** Low range gear selection
Brown **S73** Reverse warning	Black **S75** Beacon, warning light		Blue **S95** Panic alarm	White **S96** Alarm reduce set	Black **S102** Retarder, auto/manu
Orange **S105** Hazard warning light	White **S106DS** Window winder Driver side	White **S106PS** Window winder Passenger side	Violet **S107** Window winder Passenger side	Black **S115** Door lock	Orange **S123** Mirror defrost
Black **S125** Body Builder ridge lighting	Orange **S126** Body Builder machine ON	Violet **S131** Difficult terrain increase engine RPM	Red **S133** Air suspension level control	Black **S134** Air suspension memorized recall	Brown **S135** Air suspension UP/DOWN
Brown **S137A** Power take off 2	Black **S146** Temporary RSL	Orange **S147B** RPM regulation	Yellow **S151** Rheostat, Temperature	Violet **S167** Body Builder	Red **S201** Differential lock Transfer box
Black **S205** Auto neutral	Black **S211** Regeneration	Violet **S212** Tail lift	Violet **S297** Performance mode	Black **S400** LDWS OFF	Green **S401** AEBS OFF

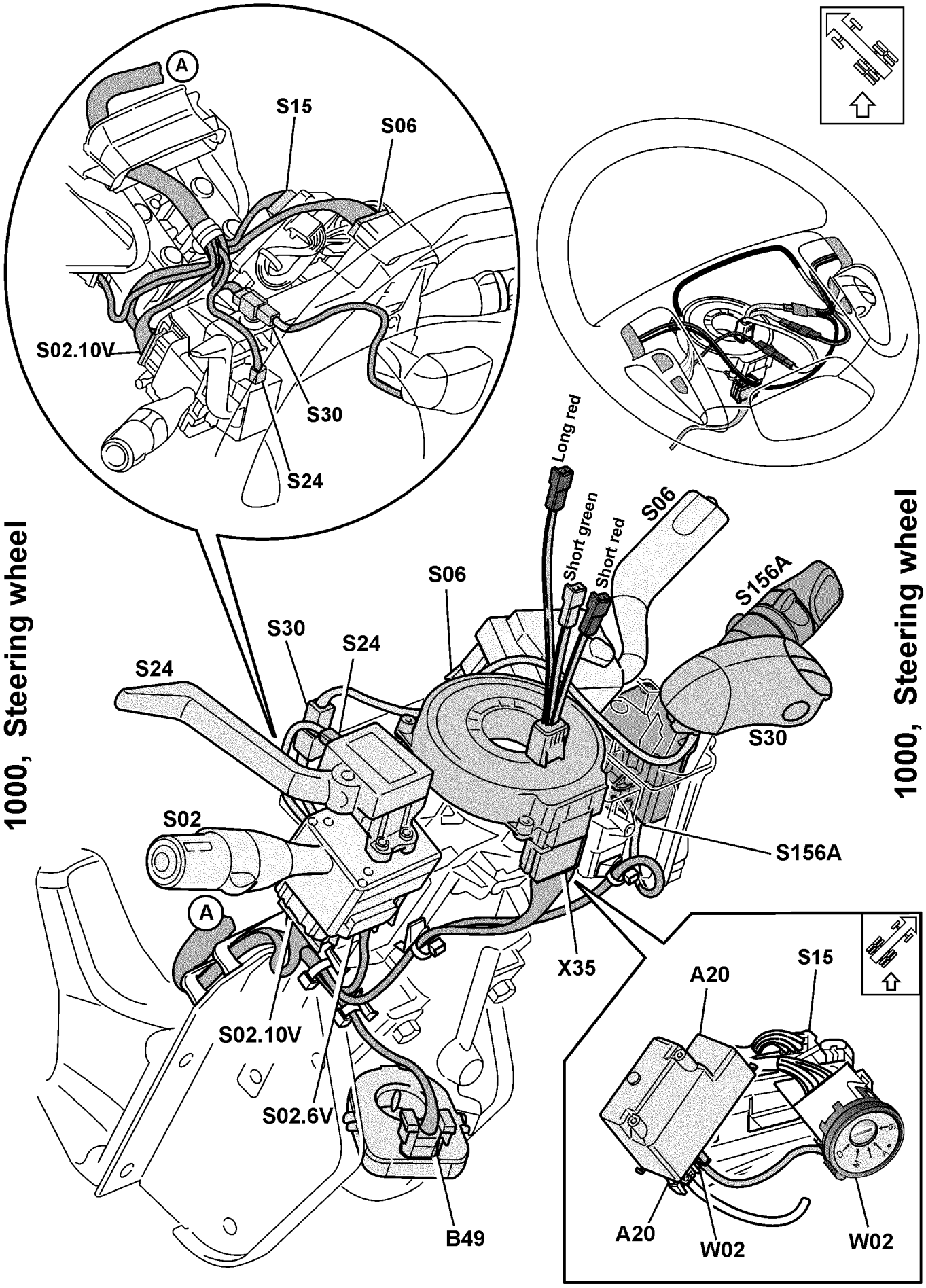
Switches

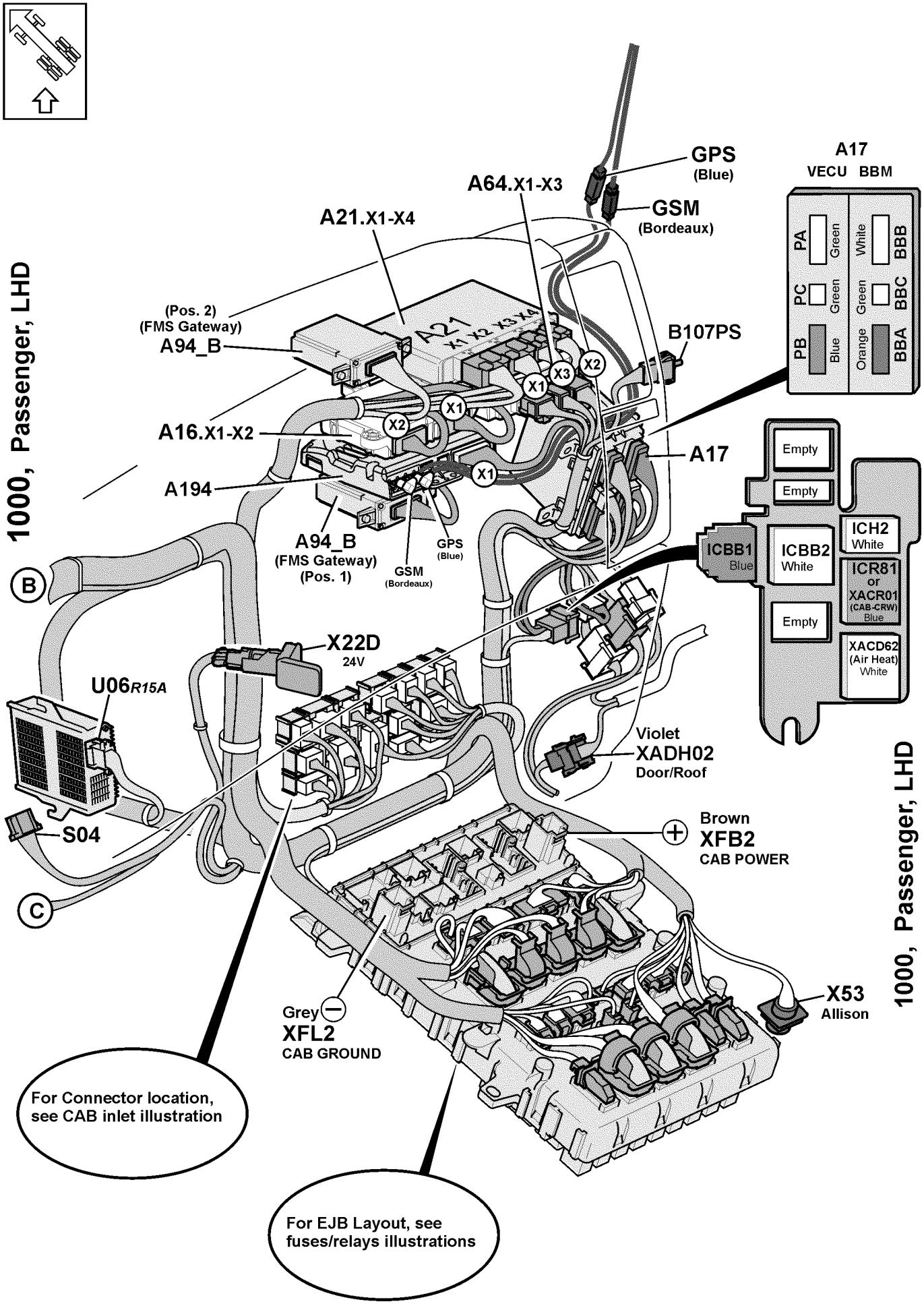
T3101550

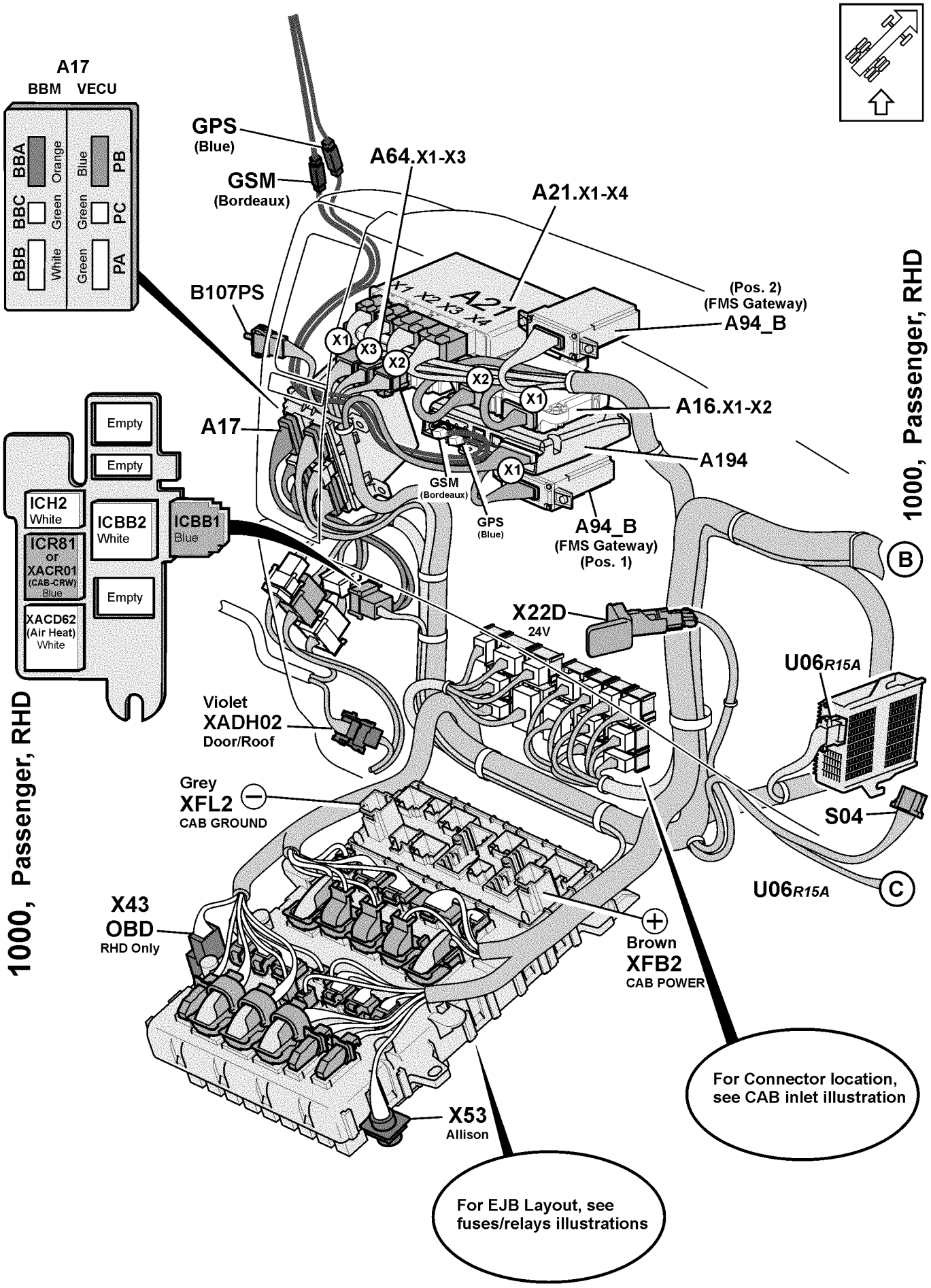
Component number	Description
S03	Work lamps loading lamps
S08A	Differential lock rear axle
S18B	Differential lock front wheels
S21A	Parking heater
S22	Levelling control headlights
S23	Roof hatch
S28A	Power take off 1
S31A	Traction control
S32A	Hill start aid
S33	Trailer brake
S38	ADR Emergency switch
S63B	Low ranger gear selection
S73	Reverse warning
S75	Beacon warning light
S95	Panic alarm
S96	Alarm reduce set
S102	Retarder auto/manu
S105	Hazard warning light
S106DS	Window winder driver side
S106PS	Window winder passenger side
S107	Window winder passenger side
S115	Door lock
S123	Mirror defrost
S125	Body builder ridge lighting
S126	Body builder machine on
S131	Difficult terrain increase engine RPM
S133	Air suspension level control
S134	Air suspension memorized recall
S135	Air suspension UP/DOWN
S137A	Power take off 2
S146	Temporary RSL
S147	RPM regulation
S151	Rheostat, Temperature
S167	Body Builder
S201	Differential lock Transfer box
S205	Auto neutral
S211	Regeneration
S212	Tail lift
S297	Performance mode
S400	LDWS OFF
S401	AEBS OFF

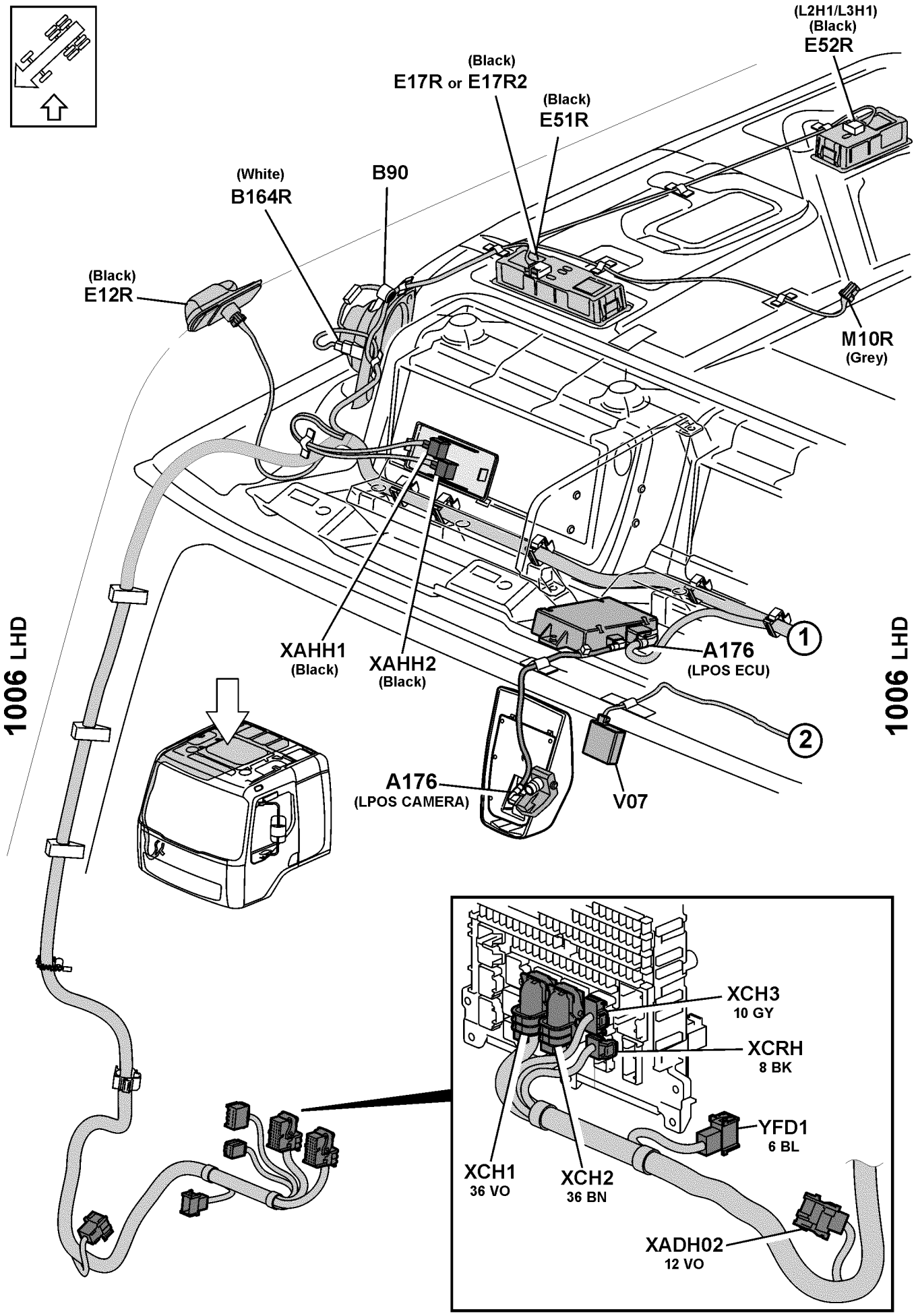

S38 White
S211 Black
S22A Green
S133 Red
S134 Black
S135 Brown
S03 Violet
S126 Orange
S125 Black
S167 S212 Violet
S28A Green
S146 Black
S147B Orange
S75 Black
S105 Orange
S401 Green
S400 Black
S102 Orange
S137A Brown
S95 Red
S131 Violet
S32A or S205 Red
S18B or S297 Violet
S31A or S63B Brown
S09A or S185 or S201 Red
S08B Violet
Only connector is supplied by Volvo
(AUX) C3
(CD-Change) C2
(SWM) C1
RAB
RAA
(Common)
B
W01 (Antenn)
A03.A
A03.C
A03.B
A
(A,B,C) A07 12V
X66 (USB)
X67 (AUX)
X26 Grey
S04
C
X22D 24V
X24D 12V
S21A/D Black
S151 Yellow
B107.DS
B25
A26 PB
A26 PA
A19B
1000, Driver, LHD
1000, Driver, LHD
(Violet) XADH01
(White) XACD61
(Violet) ICH1
(Violet) S58
(Roof)
(Door)
X43
X43
(Yellow) S67B
T3101551


S102 Orange
S400 Black
S401 Green
S105 Orange
S75 Black
S147B Orange
S146 Black
S28A Green
S08B Violet
S09A or S185 Red
S31A or S63B Brown
S18B or S297 Violet
S09A or S185 or S201 Red
S131 Violet
S95 Red
S137A Brown
S22A Green
S211 Black
S38 White
S135 Brown
S134 Black
S133 Red
S167 S212 Violet
S125 Black
S126 Orange
S03 Violet
(CD-Change) C2
(SWM) C1
(AUX) C3
(Common)
RAB
RAA
Only connector is supplied by Volvo
B
A03.A
A03.B
A03.C
W01 (Antenn)
S04
A07 12V (A,B,C)
(AUX)X67
(USB)X66
C
X22D 24V
X26 Grey
A
X24D 12V
S21A/D Black
(Violet) S58
B107.DS
S151 Yellow
A26 PB
A26 PA
A19B
B25
1000, Driver, RHD
1000, Driver, RHD
(Violet) XADH01
(Violet) ICH1
(White) XACD61
(Roof)
(Door)
(Yellow) S67B
T3101552

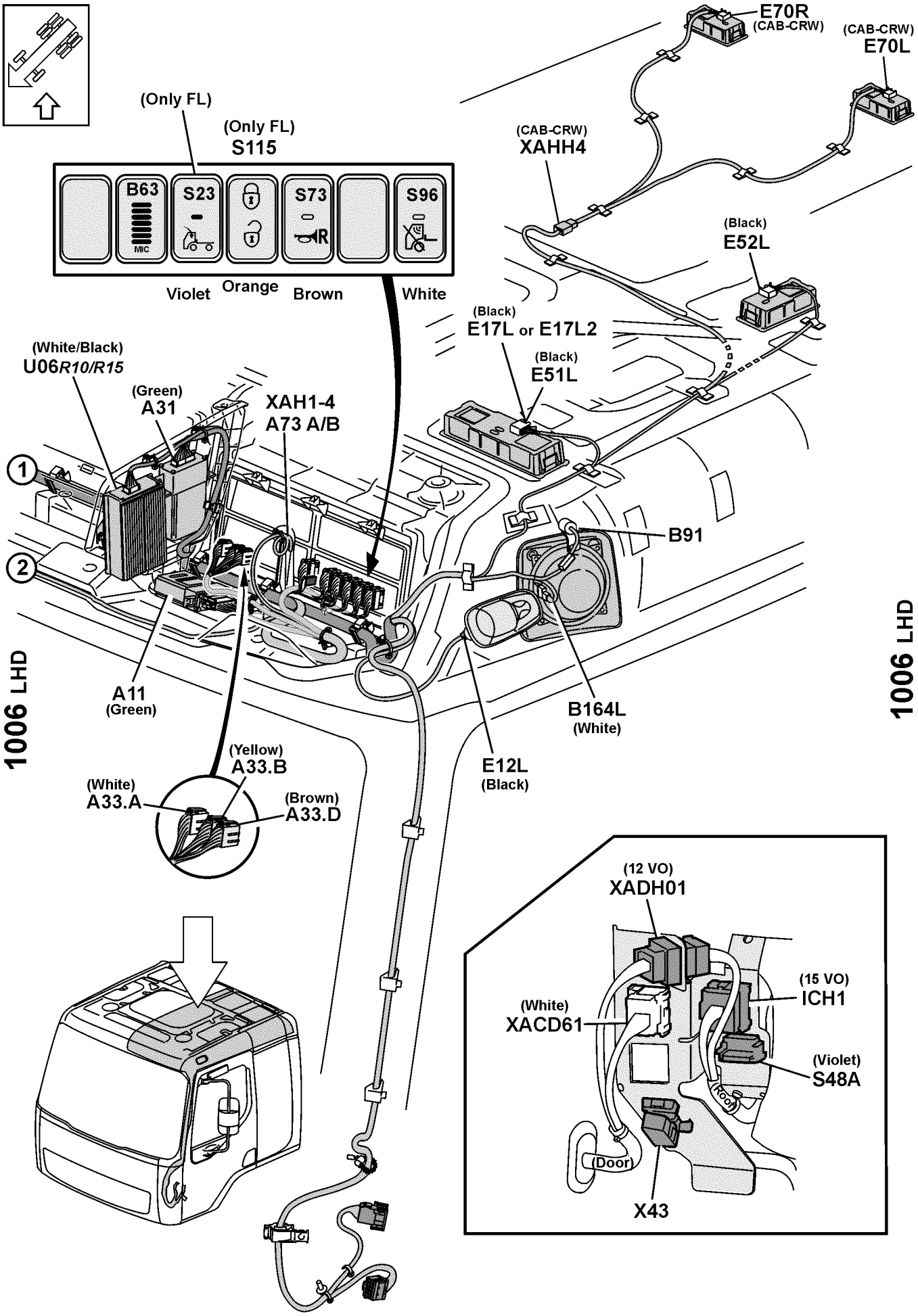

1000, Steering wheel
A
S15
S06
S02.10V
S30
S24
Long red
Short green
Short red
S06
S06
S156A
S30
S24
S30
S24
S02
S156A
A
X35
S02.10V
S02.6V
B49
A20
S15
A20
W02
W02
T3085712

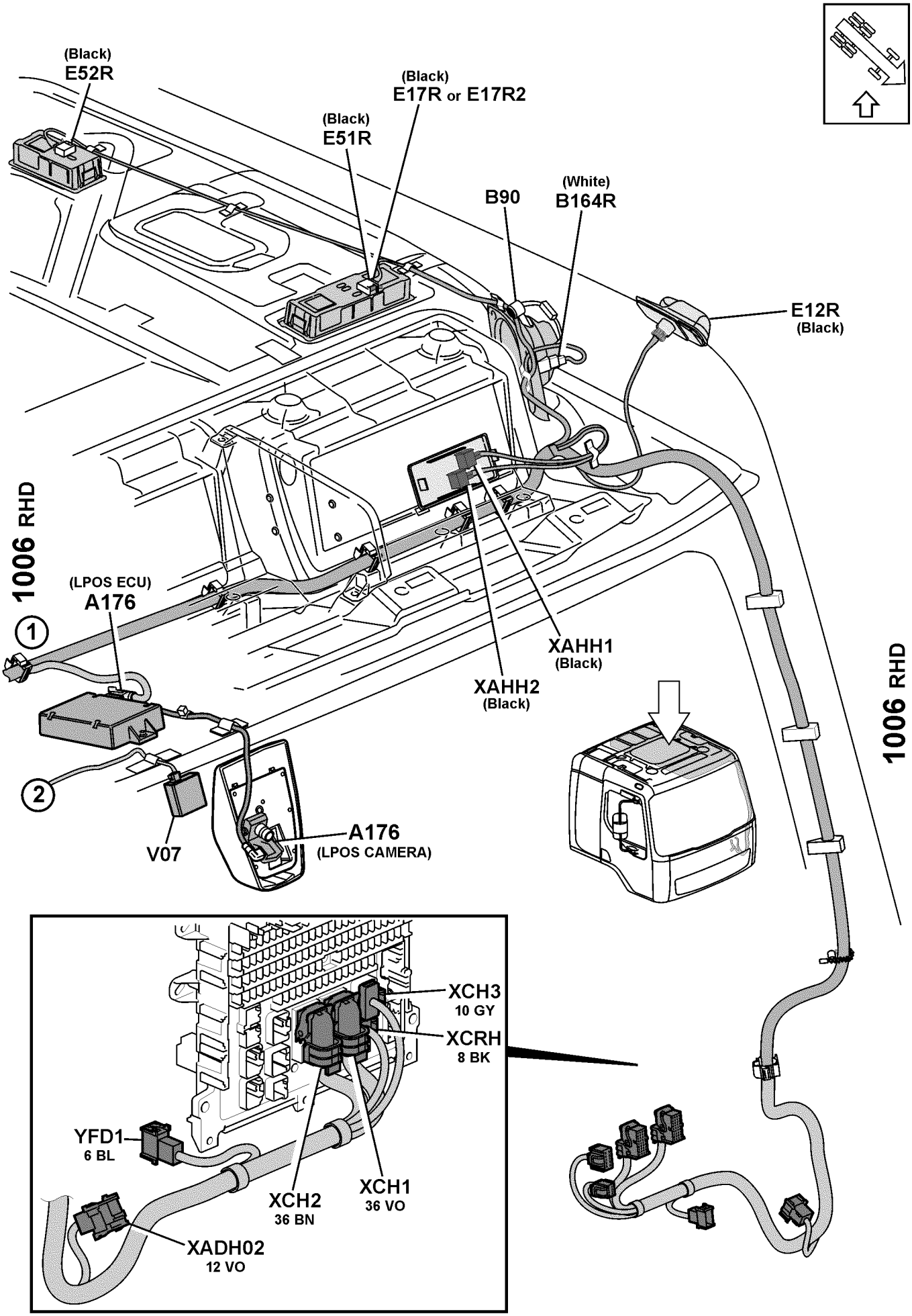

1000, Passenger, LHD
GPS
(Blue)
GSM
(Bordeaux)
A64.X1-X3
A21.X1-X4
(Pos. 2)
(FMS Gateway)
A94_B
A16.X1-X2
A194
A94_B
(FMS Gateway)
(Pos. 1)
GPS
(Blue)
GSM
(Bordeaux)
B107PS
A17
VECU BBM
PA Green
PC Green
PB Blue
White BBB
Green BBC
Orange BBA
Empty
Empty
ICBB1 Blue
ICBB2 White
ICH2 White
ICR81 or XACR01 (CAB-CRW) Blue
Empty
XACD62 (Air Heat) White
X22D
24V
U06R15A
S04
Violet
XADH02
Door/Roof
Brown
XFB2
CAB POWER
Grey
XFL2
CAB GROUND
X53
Allison
1000, Passenger, LHD
For Connector location, see CAB inlet illustration
For EJB Layout, see fuses/relays illustrations
T3094051


A17
BBM VECU
BBA Orange
BBC Green
BBB White
Blue PB
Green PC
Green PA
GPS
(Blue)
GSM
(Bordeaux)
A64.X1-X3
A21.X1-X4
B107PS
(Pos. 2)
(FMS Gateway)
A94_B
A16.X1-X2
A194
A17
Empty
Empty
ICH2
White
ICBB2
White
ICBB1
Blue
ICR81
or
XACR01
(CAB-CRW)
Blue
Empty
XACD62
(Air Heat)
White
GSM
(Bordeaux)
GPS
(Blue)
A94_B
(FMS Gateway)
(Pos. 1)
1000, Passenger, RHD
B
X22D
24V
U06R15A
Violet
XADH02
Door/Roof
Grey
XFL2
CAB GROUND
S04
U06R15A
C
X43
OBD
RHD Only
Brown
XFB2
CAB POWER
1000, Passenger, RHD
For Connector location, see CAB inlet illustration
X53
Allison
For EJB Layout, see fuses/relays illustrations
T3094052

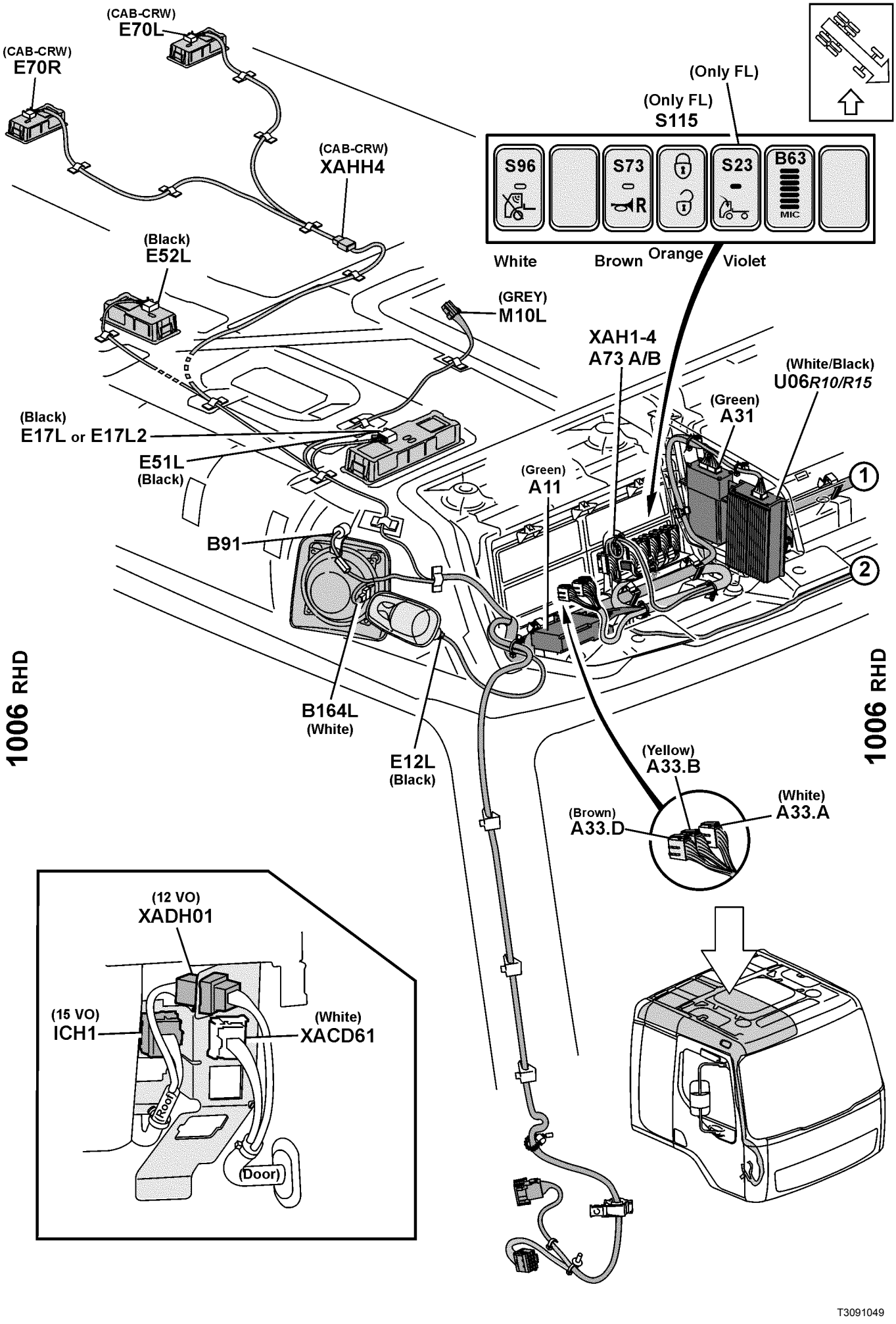

(L2H1/L3H1)
(Black)
E52R
(Black)
E17R or E17R2
(Black)
E51R
(White)
B164R
B90
(Black)
E12R
M10R
(Grey)
1006 LHD
XAHH1
(Black)
XAHH2
(Black)
A176
(LPOS ECU)
1
2
A176
(LPOS CAMERA)
V07
1006 LHD
XCH3
10 GY
XCRH
8 BK
YFD1
6 BL
XCH1
36 VO
XCH2
36 BN
XADH02
12 VO

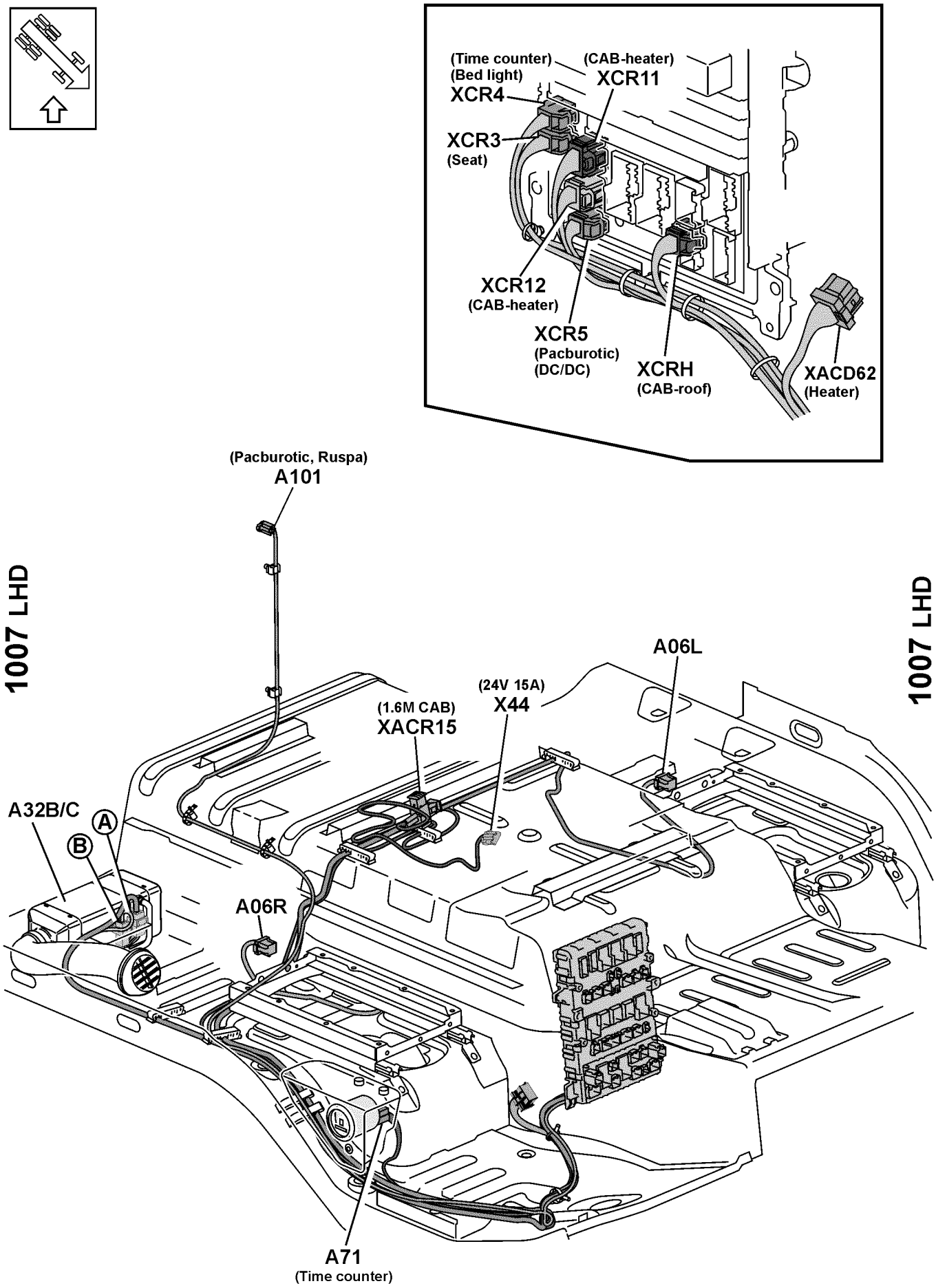
T3101541


E70R
(CAB-CRW)
(CAB-CRW)
E70L
(Only FL)
(Only FL)
S115
B63
S23
S73
S96
MIC
R
L
Violet
Orange
Brown
White
(CAB-CRW)
XAHH4
(Black)
E52L
(Black)
E17L or E17L2
(Black)
E51L
(White/Black)
U06R10/R15
(Green)
A31
XAH1-4
A73 A/B
1
2
B91
1006 LHD
1006 LHD
A11
(Green)
B164L
(White)
E12L
(Black)
(Yellow)
A33.B
(White)
A33.A
(Brown)
A33.D
(12 VO)
XADH01
(15 VO)
ICH1
(White)
XACD61
(Violet)
S48A
(Roof)
(Door)
X43
T3091054

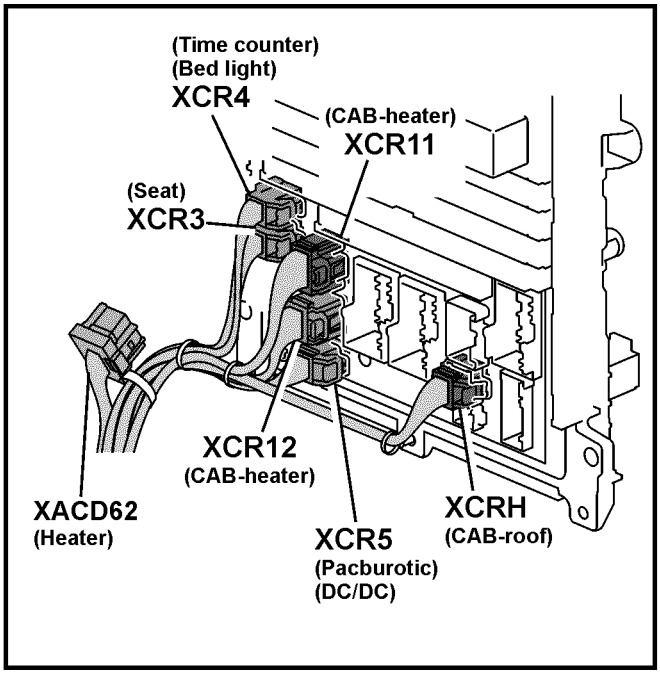

(Black)
E52R
(Black)
E17R or E17R2
(Black)
E51R
B90
(White)
B164R
E12R
(Black)
1006 RHD
(LPOS ECU)
A176
1
XAHH1
(Black)
XAHH2
(Black)
1006 RHD
2
V07
A176
(LPOS CAMERA)
XCH3
10 GY
XCRH
8 BK
YFD1
6 BL
XCH2
36 BN
XCH1
36 VO
XADH02
12 VO

T3101542


(CAB-CRW)
E70L
(CAB-CRW)
E70R
(CAB-CRW)
XAHH4
(Only FL)
(Only FL)
S115
S96
S73
R
S23
B63
MIC
White
Brown
Orange
Violet
(Black)
E52L
(GREY)
M10L
XAH1-4
A73 A/B
(White/Black)
U06R10/R15
(Green)
A31
(Black)
E17L or E17L2
E51L
(Black)
(Green)
A11
1
2
B91
1006 RHD
1006 RHD
B164L
(White)
E12L
(Black)
(Yellow)
A33.B
(White)
A33.A
(Brown)
A33.D
(12 VO)
XADH01
(15 VO)
ICH1
(White)
XACD61
(Roof)
(Door)
T3091049


(Time counter)
(Bed light)
XCR4
(CAB-heater)
XCR11
XCR3
(Seat)
XCR12
(CAB-heater)
XCR5
(Pacburotic)
(DC/DC)
XCRH
(CAB-roof)
XACD62
(Heater)
(Pacburotic, Ruspa)
A101
1007 LHD
1007 LHD
A06L
(24V 15A)
X44
(1.6M CAB)
XACR15
A32B/C
A
B
A06R
A71
(Time counter)

T3084661



1007 RHD

(Pacburotic, Ruspa)
A101

(1.6M CAB)
XACR15

A06L

(Time counter)
A71

A32B/C

A

B

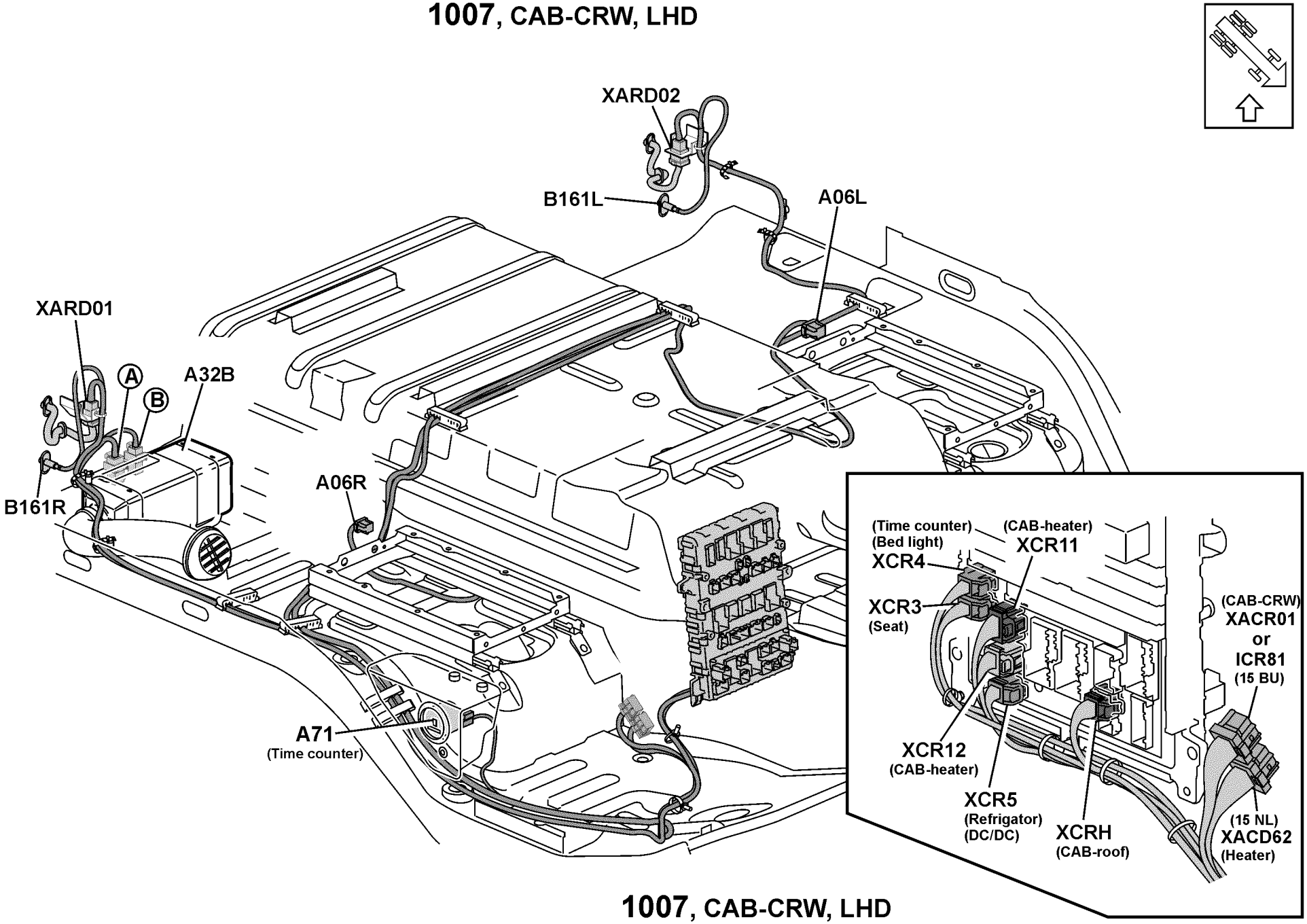
A06R

X44
(24V 15A)

1007 RHD

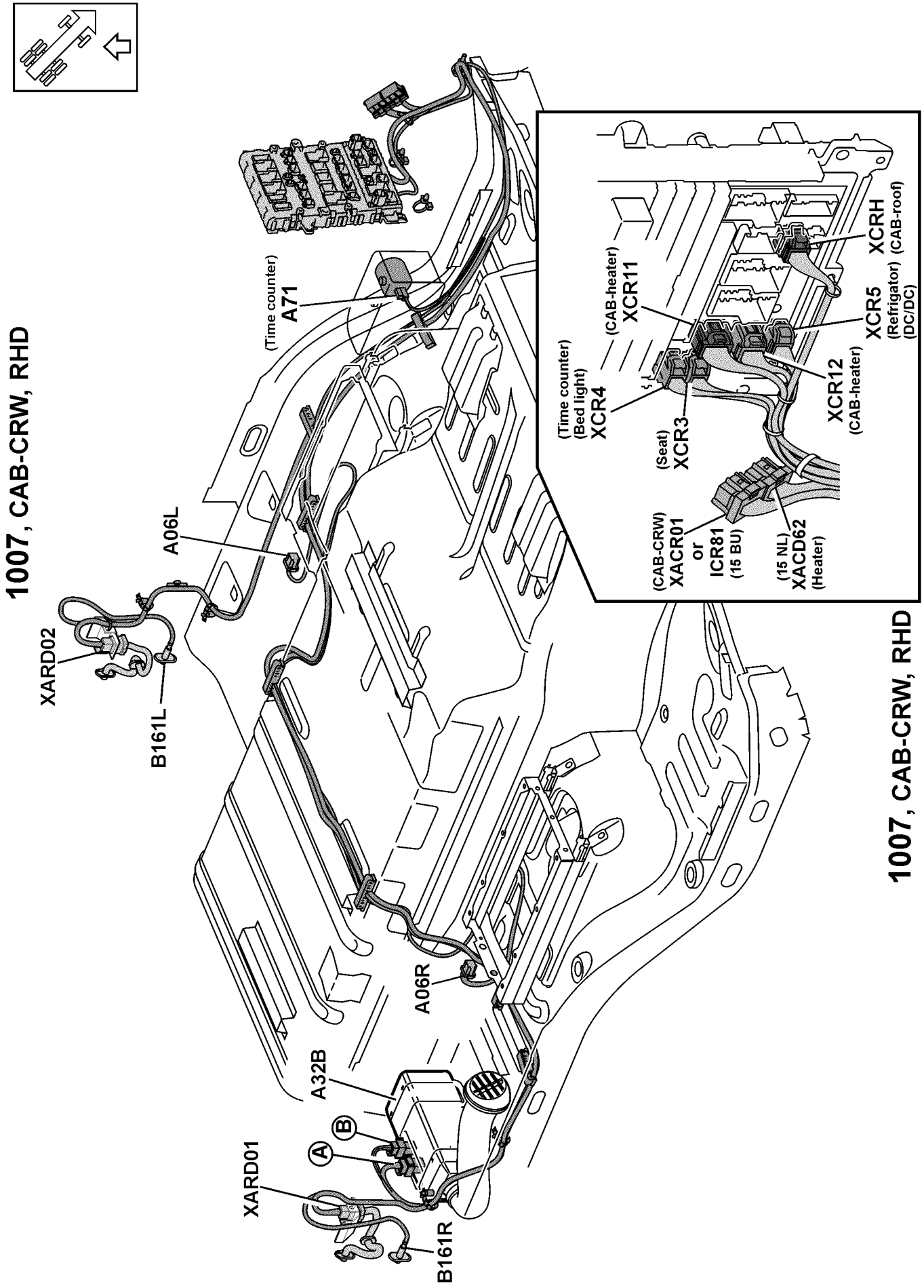
T3084662

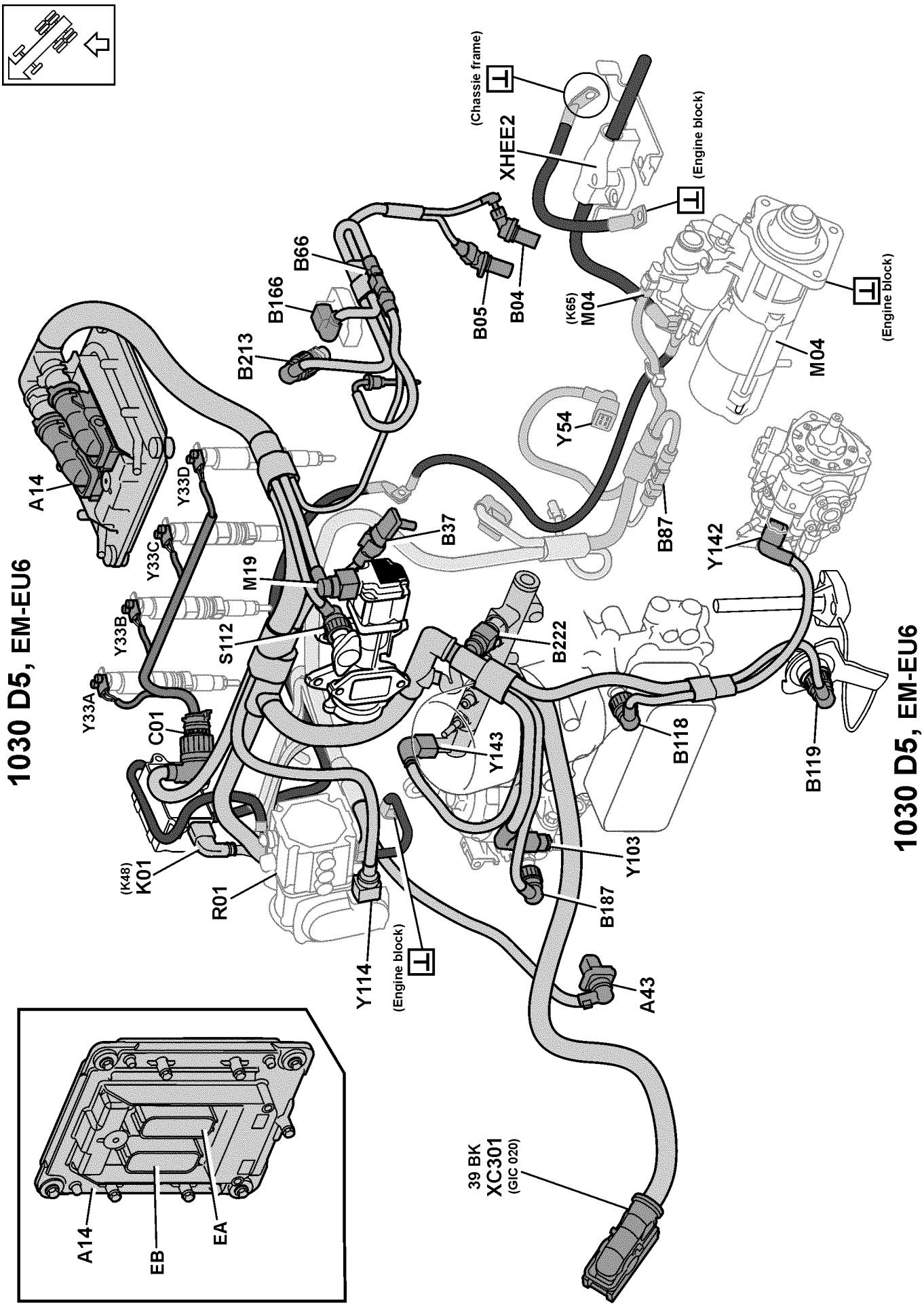
1007, CAB-CRW, LHD



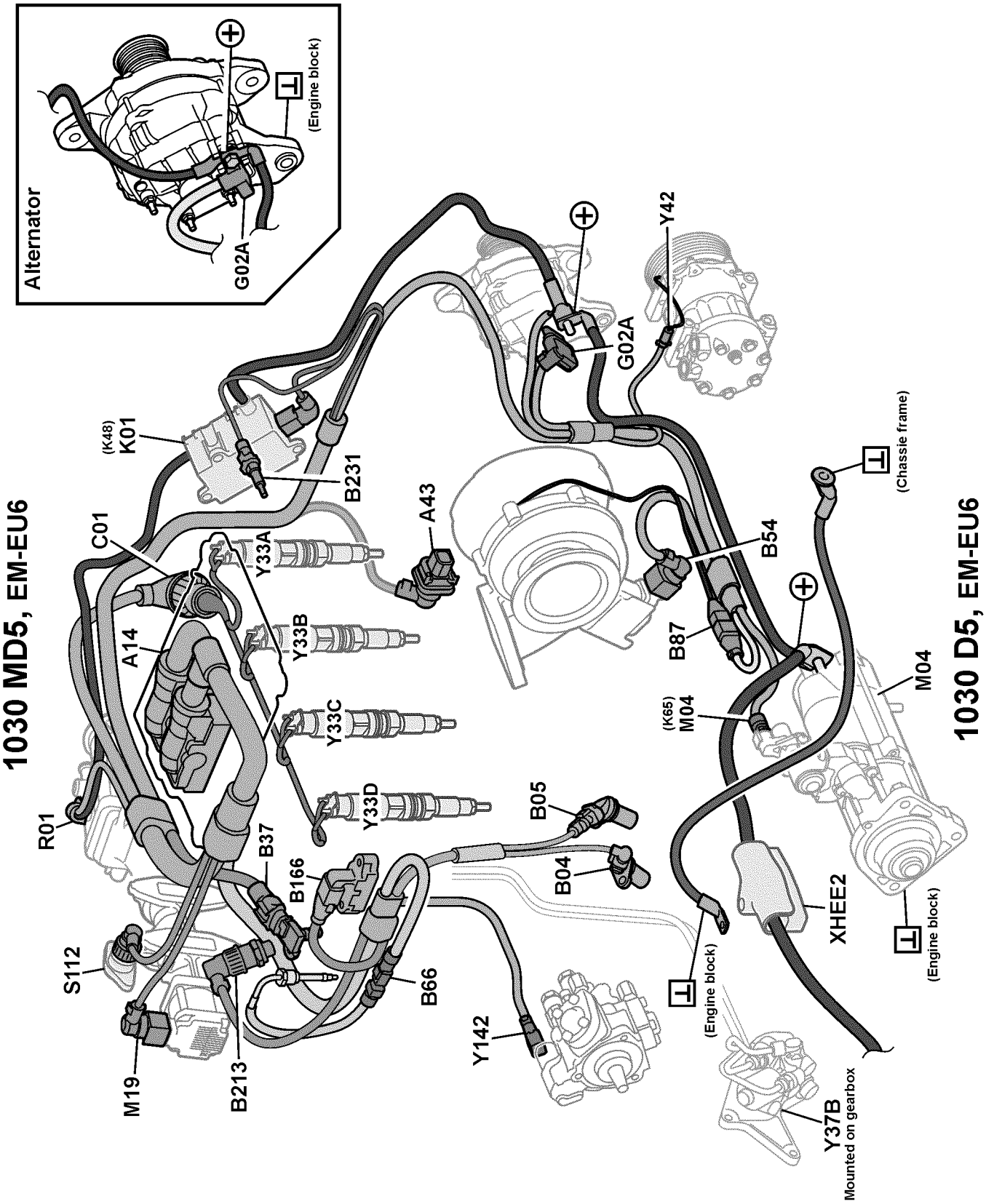
1007, CAB-CRW, LHD

T3091059

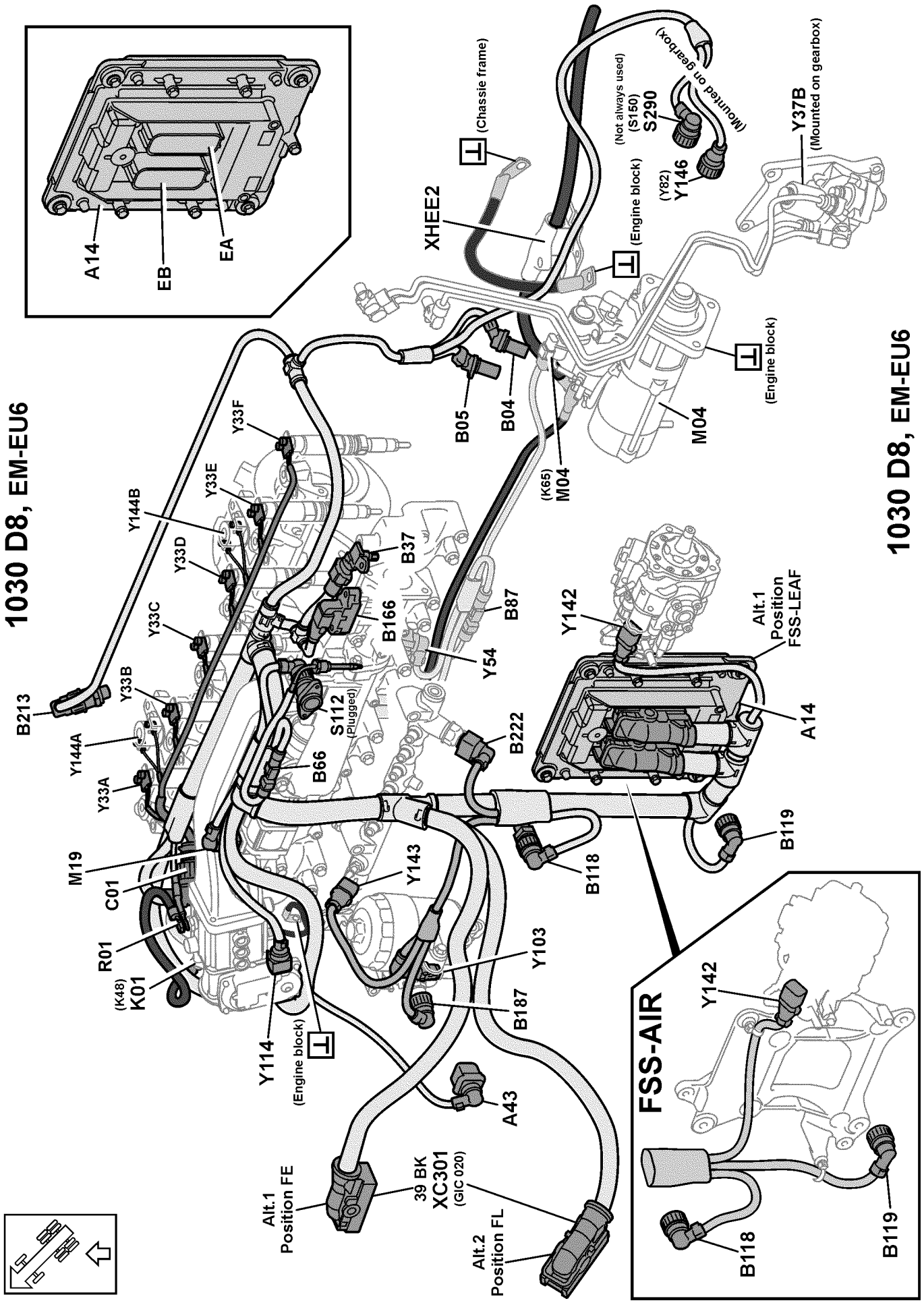

1007, CAB-CRW, RHD
XARD02
B161L
A06L
(Time counter)
A71
A32B
A
B
XARD01
B161R
A06R
(Time counter)
(Bed light)
XCR4
(CAB-heater)
XCR11
(Seat)
XCR3
XCRH
(CAB-roof)
XCR5
(Refrigator)
(DC/DC)
XCR12
(CAB-heater)
(CAB-CRW)
XACR01
or
ICR81
(15 BU)
(15 NL)
XACD62
(Heater)
1007, CAB-CRW, RHD
T3091060


1030 D5, EM-EU6
A14
Y33D
Y33C
Y33B
Y33A
C01
(K48)
K01
R01
M19
S112
B37
B166
B66
B213
B05
B04
(Chassie frame)
XHEE2
(Engine block)
(K65)
M04
Y54
B87
Y142
B222
Y143
B118
B119
Y103
B187
A43
Y114
(Engine block)
39 BK
XC301
(GIC 020)
A14
EB
EA
1030 D5, EM-EU6

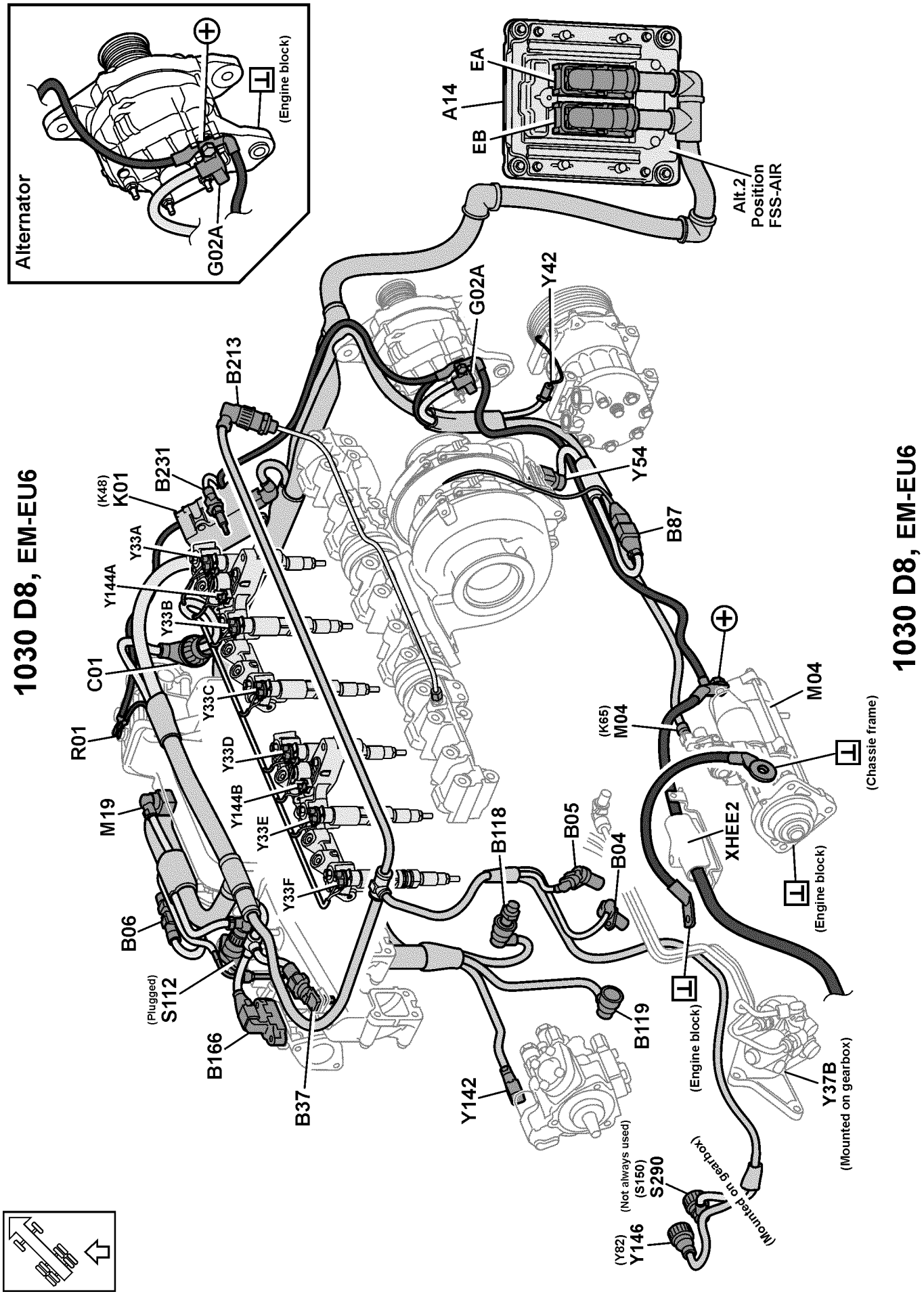
T3084676

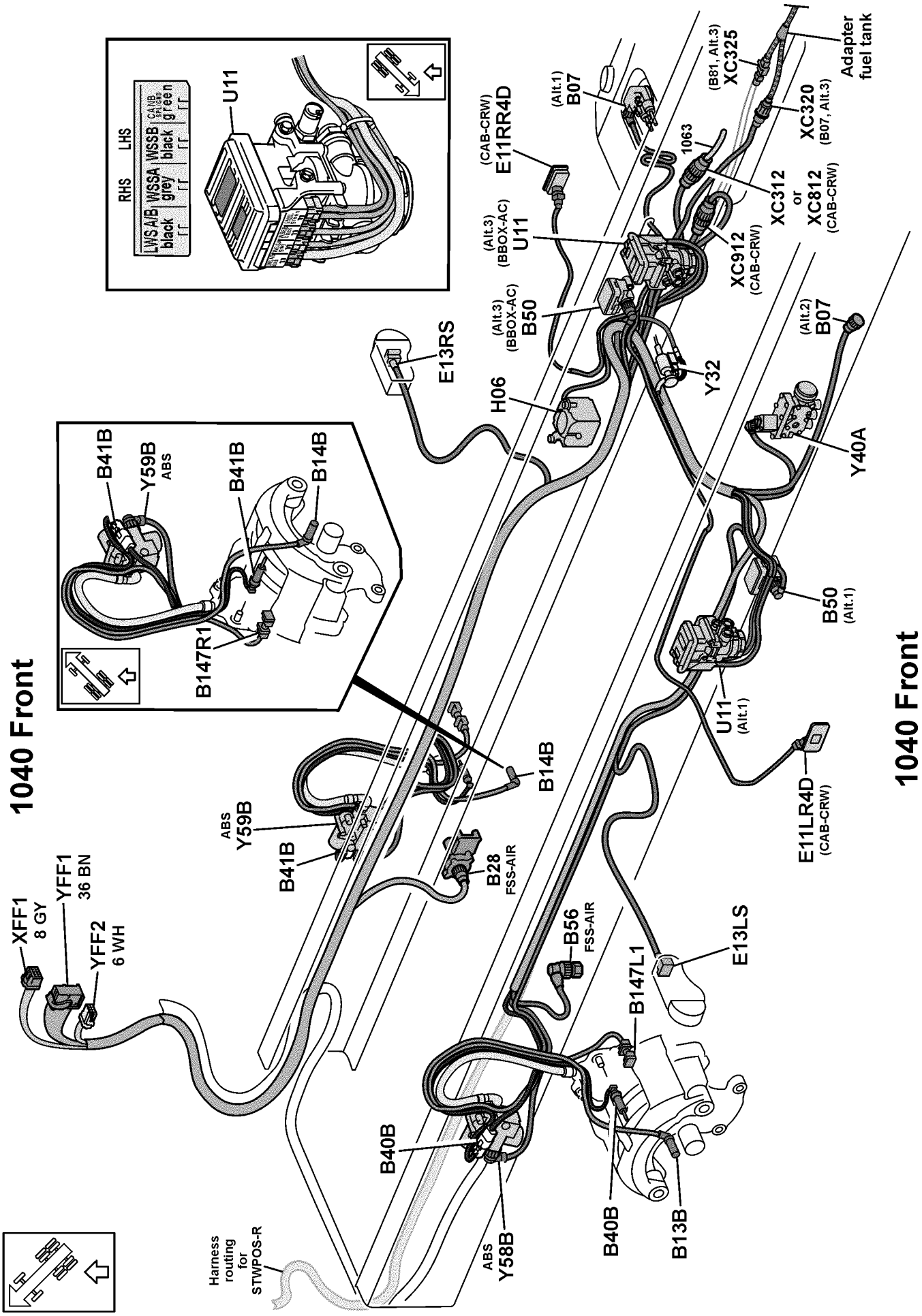

1030 MD5, EM-EU6
1030 D5, EM-EU6
Alternator
G02A
(Engine block)
(K48)
K01
C01
A14
R01
S112
M19
B213
B37
B166
B66
Y33A
Y33B
Y33C
Y33D
B231
A43
Y142
B05
B04
G02A
Y42
B54
B87
(K65)
M04
M04
XHEE2
(Engine block)
(Chassie frame)
(Engine block)
Y37B
Mounted on gearbox

T3084677

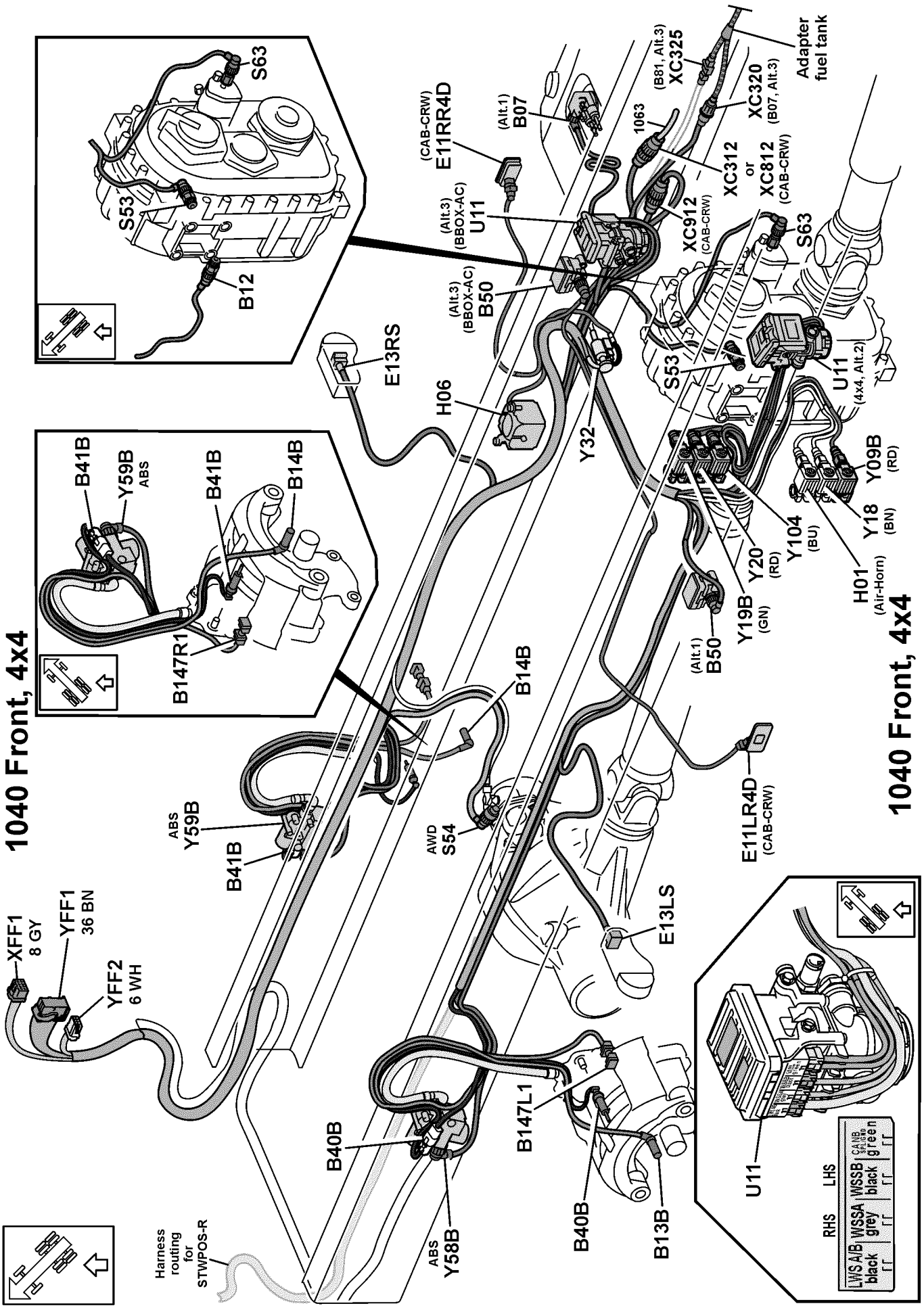

1030 D8, EM-EU6
A14
EB
EA
XHEE2
(Chassie frame)
(Engine block)
(Not always used)
(S150)
S290
(Mounted on gearbox)
(Y82)
Y146
Y37B
(Mounted on gearbox)
B05
B04
(K65)
M04
M04
(Engine block)
Y33F
Y33E
Y144B
Y33D
Y33C
Y33B
Y144A
Y33A
B213
M19
C01
R01
(K48)
K01
B37
B166
B87
Y54
S112
(Plugged)
B66
B222
Y142
Alt.1
Position
FSS-LEAF
A14
B119
B118
Y143
Y103
B187
Y114
(Engine block)
A43
Alt.1
Position FE
39 BK
XC301
(GIC 020)
Alt.2
Position FL
FSS-AIR
Y142
B118
B119
1030 D8, EM-EU6

T3084602

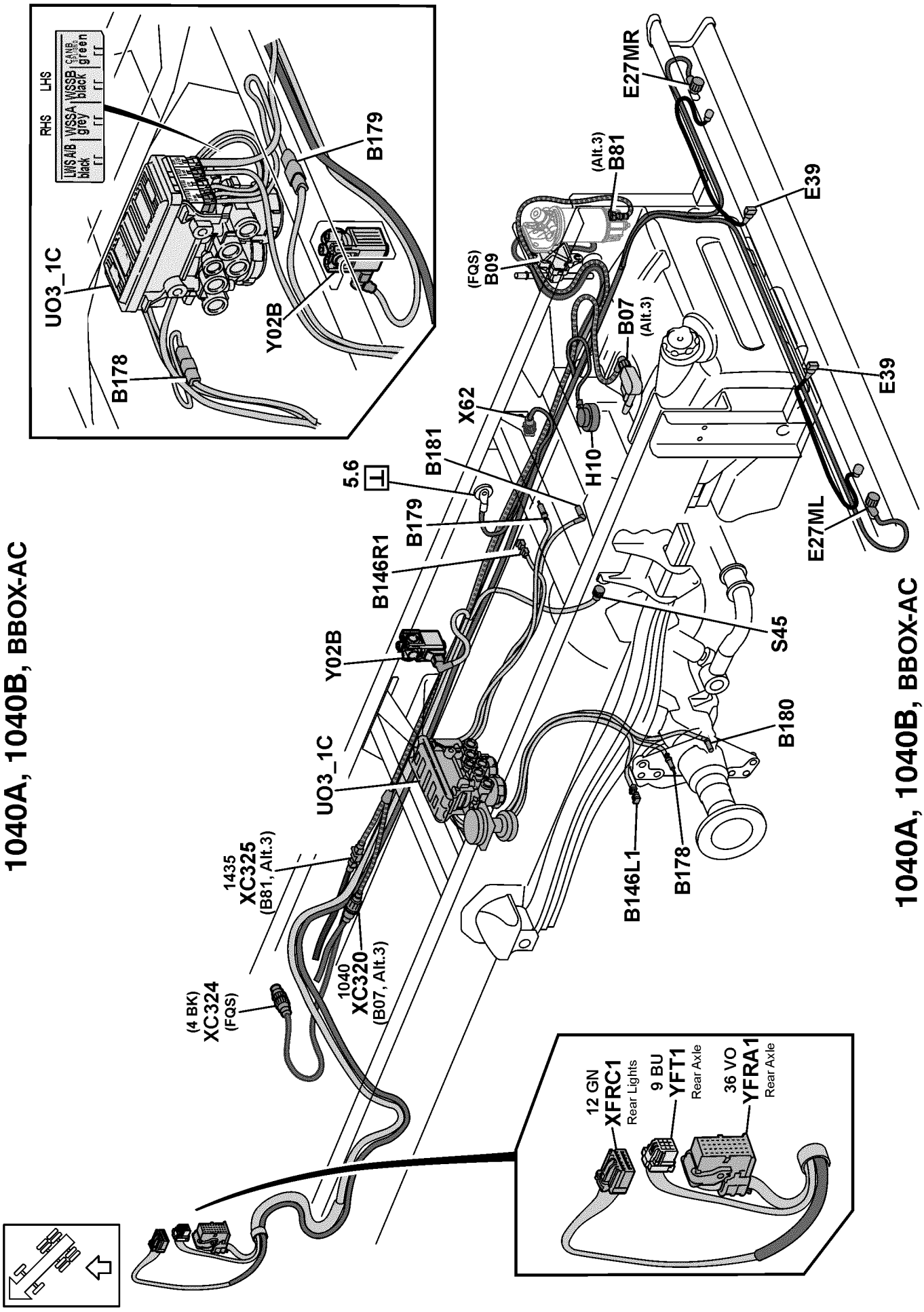

1030 D8, EM-EU6
Alternator
G02A
(Engine block)
A14
EA
EB
Alt.2
Position
FSS-AIR
G02A
Y42
B213
B231
(K48)
K01
Y33A
Y144A
Y33B
C01
Y33C
R01
Y33D
Y144B
Y33E
Y33F
M19
B06
(Plugged)
S112
B166
B37
Y54
B87
M04
(K65)
M04
(Chassis frame)
XHEE2
(Engine block)
B118
B05
B04
B119
Y142
(Engine block)
Y37B
(Mounted on gearbox)
(Not always used)
(S150)
S290
(Mounted on gearbox)
(Y82)
Y146
1030 D8, EM-EU6
T3084611

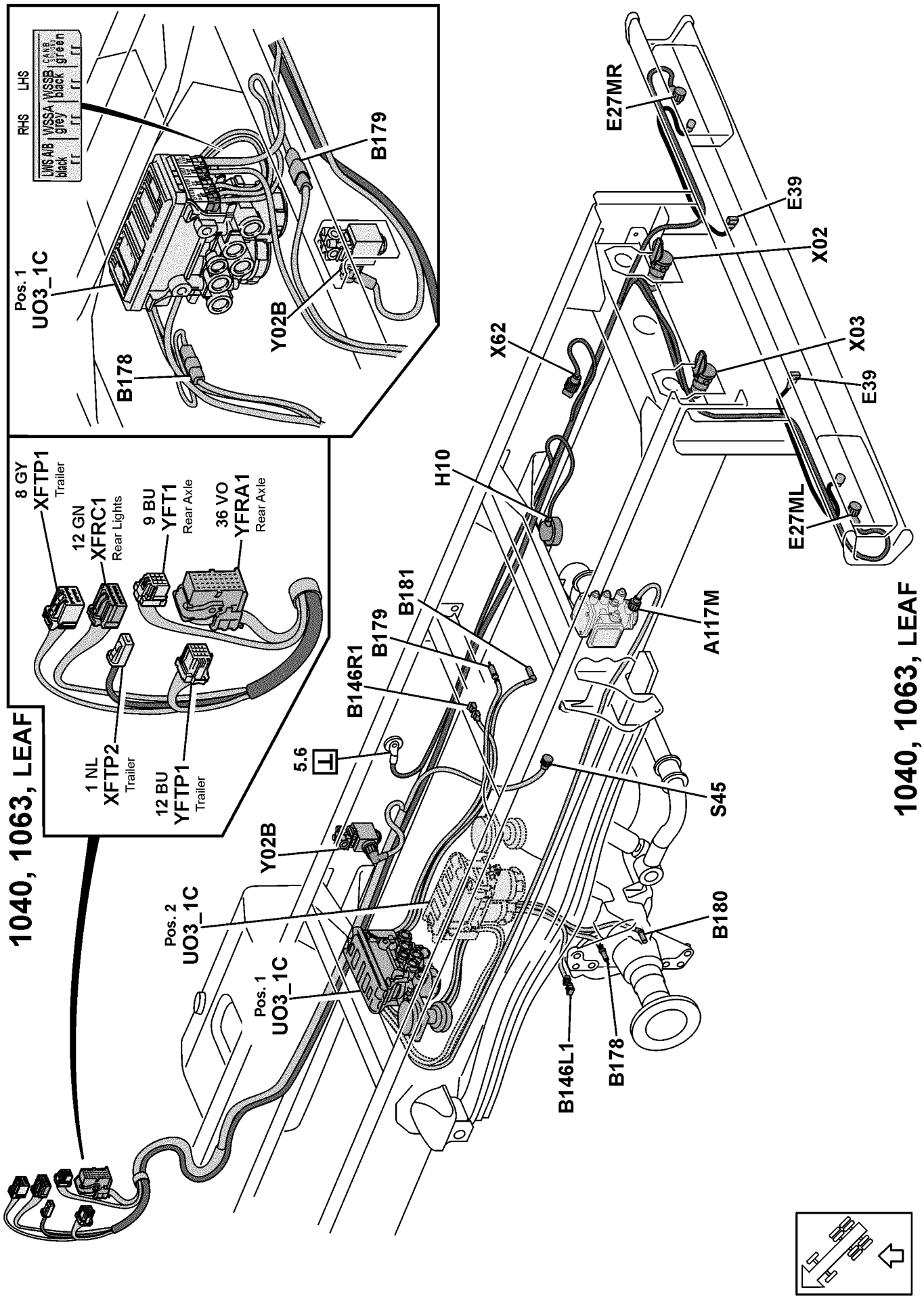

1040 Front
RHS
LHS
LWSA/B black
WSSA grey
WSSB black
CAN B SPEED green
U11
B41B
Y59B ABS
B41B
B14B
B147R1
E13RS
H06
(CAB-CRW) E11RR4D
(Alt.1) B07
(B81, Alt.3) XC325
Adapter fuel tank
XC320 (B07, Alt.3)
1063
XC312 or XC812 (CAB-CRW)
(Alt.3) (BBOX-AC) U11
XC912 (CAB-CRW)
(Alt.3) (BBOX-AC) B50
Y32
(Alt.2) B07
Y40A
B50 (Alt.1)
U11 (Alt.1)
E11LR4D (CAB-CRW)
B14B
ABS Y59B
B41B
B28 FSS-AIR
B56 FSS-AIR
B147L1
E13LS
XFF1 8 GY
YFF1 36 BN
YFF2 6 WH
B40B
ABS Y58B
B40B
B13B
Harness routing for STWPOS-R
1040 Front

T3102201

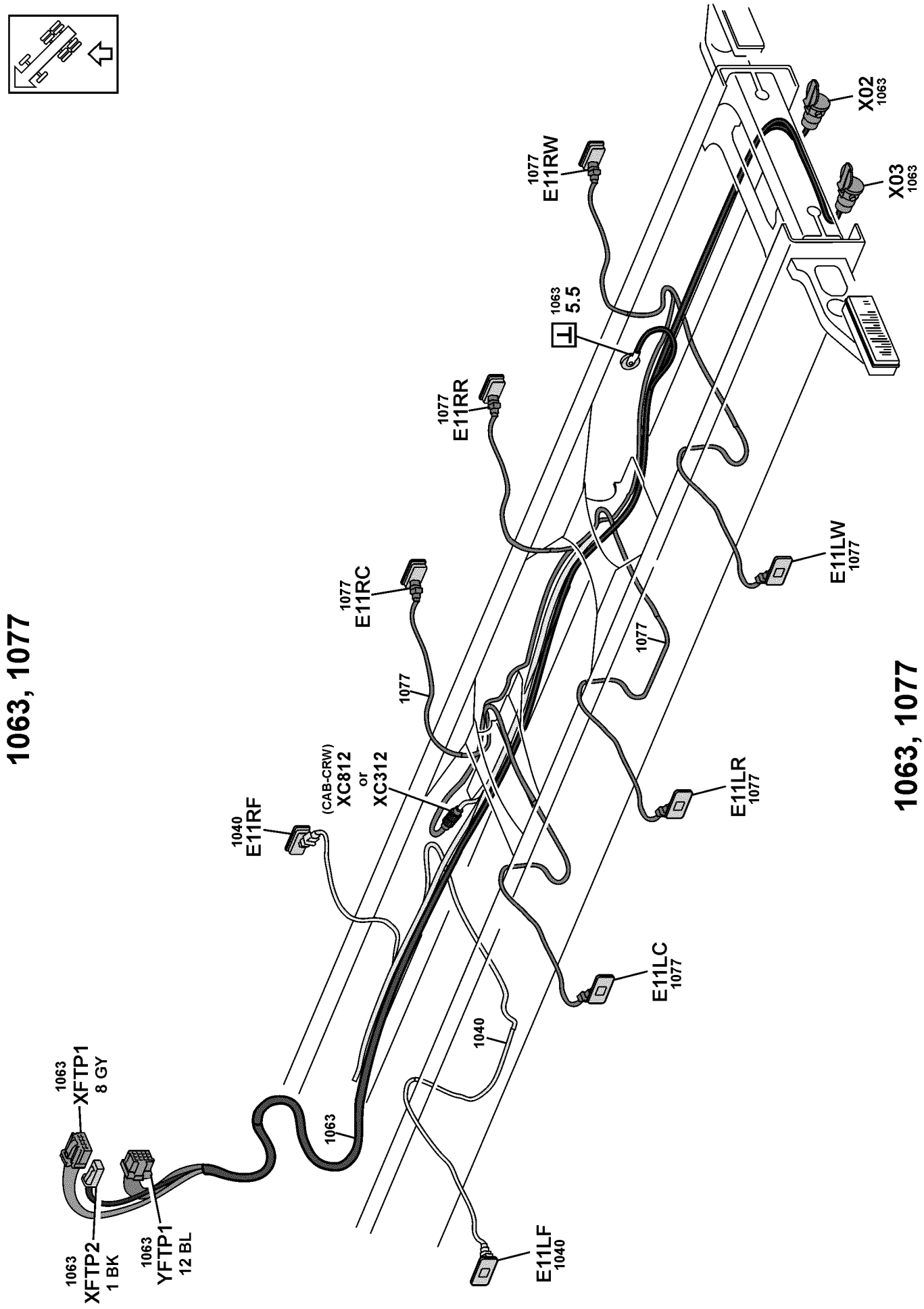

1040 Front, 4x4
S63
S53
B12
B41B
Y59B
ABS
B41B
B14B
B147R1
E13RS
H06
(CAB-CRW)
E11RR4D
(Alt.1)
B07
(Alt.3)
(BBOX-AC)
U11
(Alt.3)
(BBOX-AC)
B50
1063
(B81, Alt.3)
XC325
XC320
(B07, Alt.3)
Adapter
fuel tank
XC312
or
XC812
(CAB-CRW)
XC912
(CAB-CRW)
S63
S53
U11
(4x4, Alt.2)
Y32
Y09B
(RD)
Y18
(BN)
Y104
(BU)
Y20
(RD)
H01
(Air-Horn)
Y19B
(GN)
(Alt.1)
B50
B14B
ABS
Y59B
B41B
AWD
S54
E11LR4D
(CAB-CRW)
1040 Front, 4x4
XFF1
8 GY
YFF1
36 BN
YFF2
6 WH
E13LS
B40B
B147L1
B40B
B13B
ABS
Y58B
Harness
routing
for
STWPOS-R
U11
RHS
LHS
LWSA/B
black
WSSA
grey
WSSB
black
CANB
Spl.cab
green

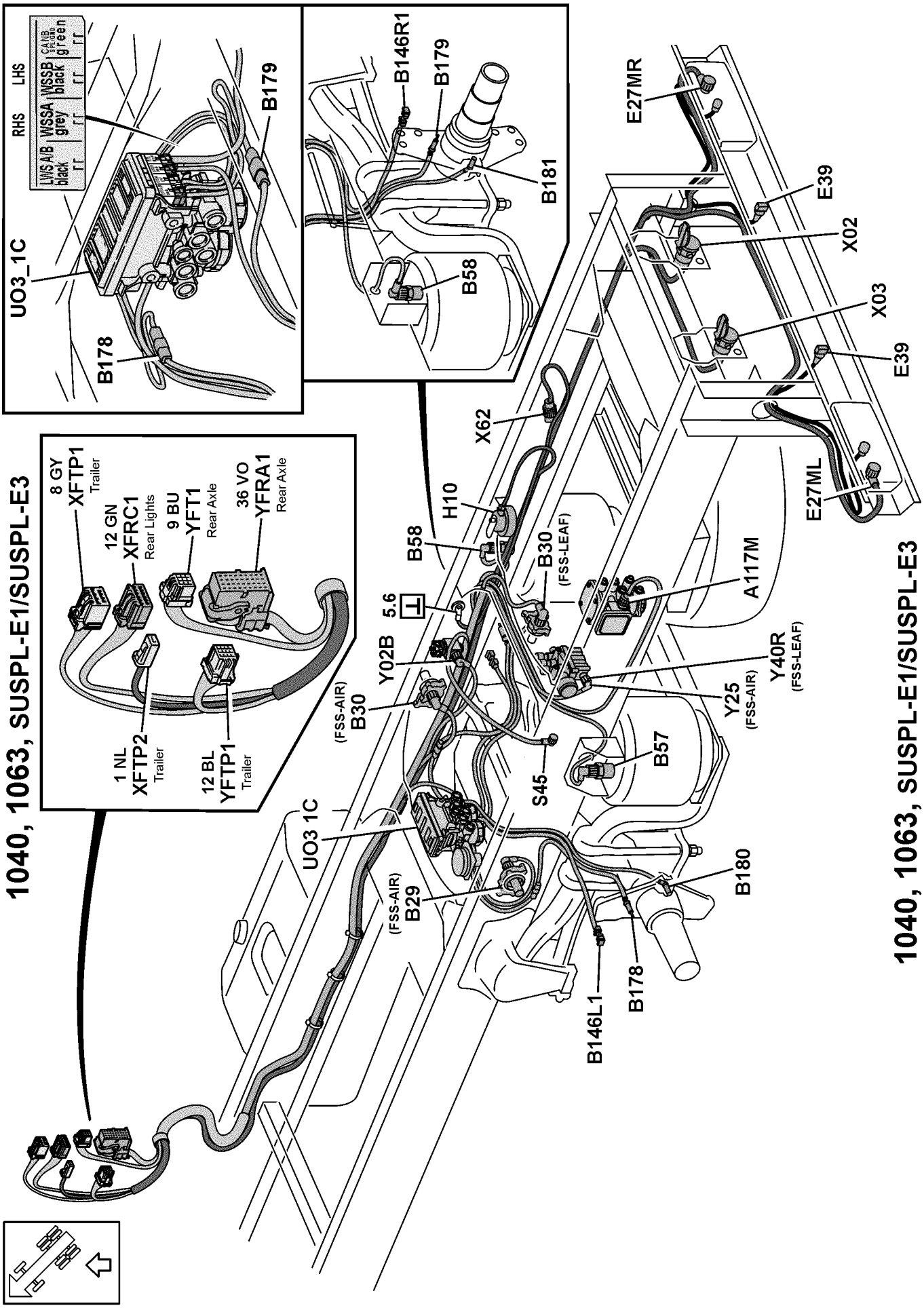
T3102203


1040A, 1040B, BBOX-AC
RHS
LHS
LW/S A/B black
W/SSA grey
W/SSB black
CANB CAN-Bus green
UO3_1C
B178
Y02B
B179
E27MR
(Alt.3) B81
E39
(FQS) B09
B07 (Alt.3)
X62
H10
B181
5.6
B179
B146R1
Y02B
UO3_1C
S45
B180
E27ML
B146L1
B178
1435 XC325 (B81, Alt.3)
1040 XC320 (B07, Alt.3)
(4 BK) XC324 (FQS)
12 GN XFRC1 Rear Lights
9 BU YFT1 Rear Axle
36 VO YFRA1 Rear Axle
1040A, 1040B, BBOX-AC
T3102204

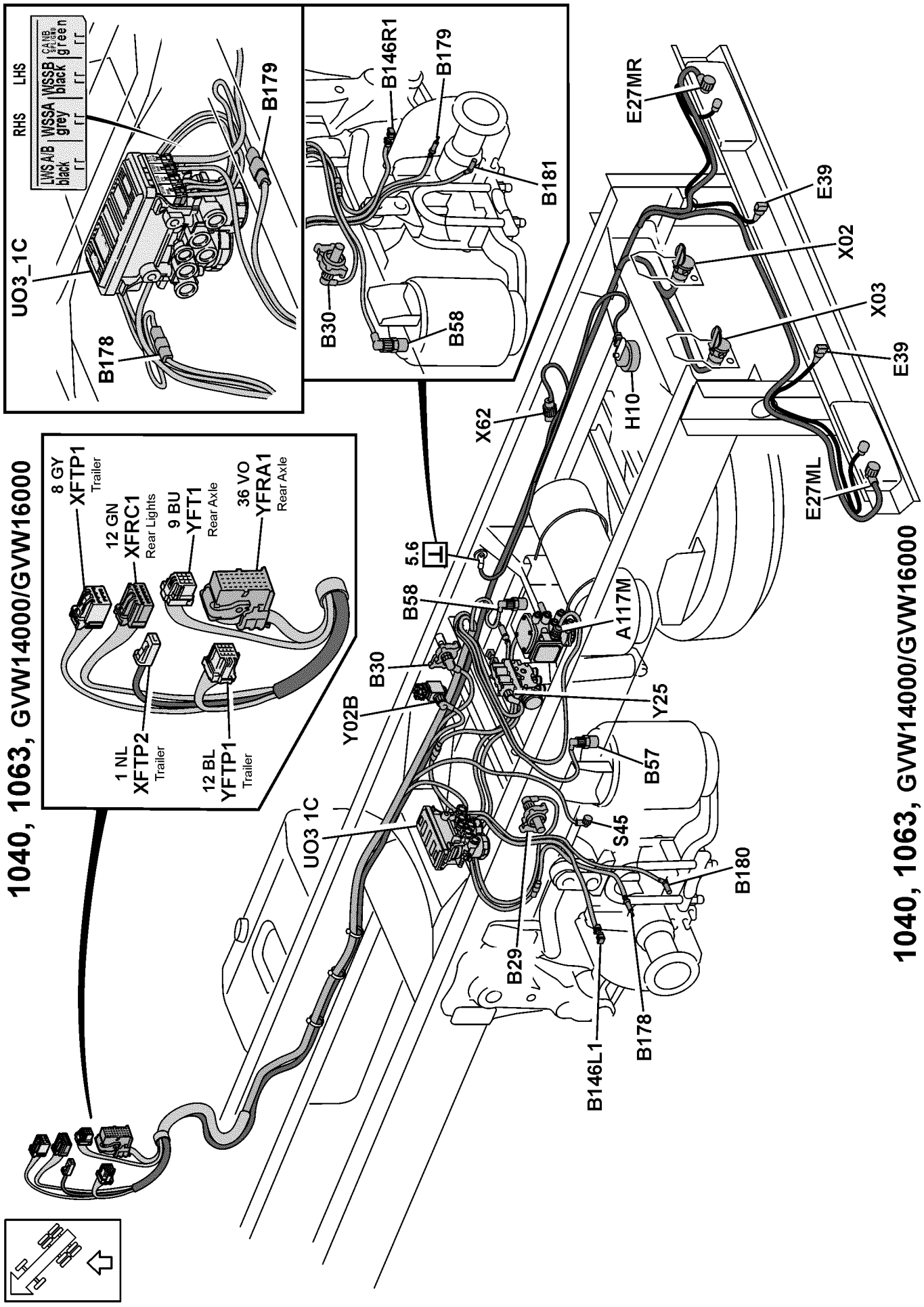

1040, 1063, LEAF
RHS LHS
LWS A/B black
WSSA grey
WSSB black
CANB green
Pos. 1
UO3_1C
B178
Y02B
B179
8 GY
XFTP1
Trailer
12 GN
XFRC1
Rear Lights
9 BU
YFT1
Rear Axle
36 VO
YFRA1
Rear Axle
1 NL
XFTP2
Trailer
12 BU
YFTP1
Trailer
Pos. 2
UO3_1C
Pos. 1
UO3_1C
Y02B
5.6
B146R1
B179
B181
H10
X62
E27MR
E39
X02
X03
E39
E27ML
A117M
S45
B180
B146L1
B178
1040, 1063, LEAF

T3098283

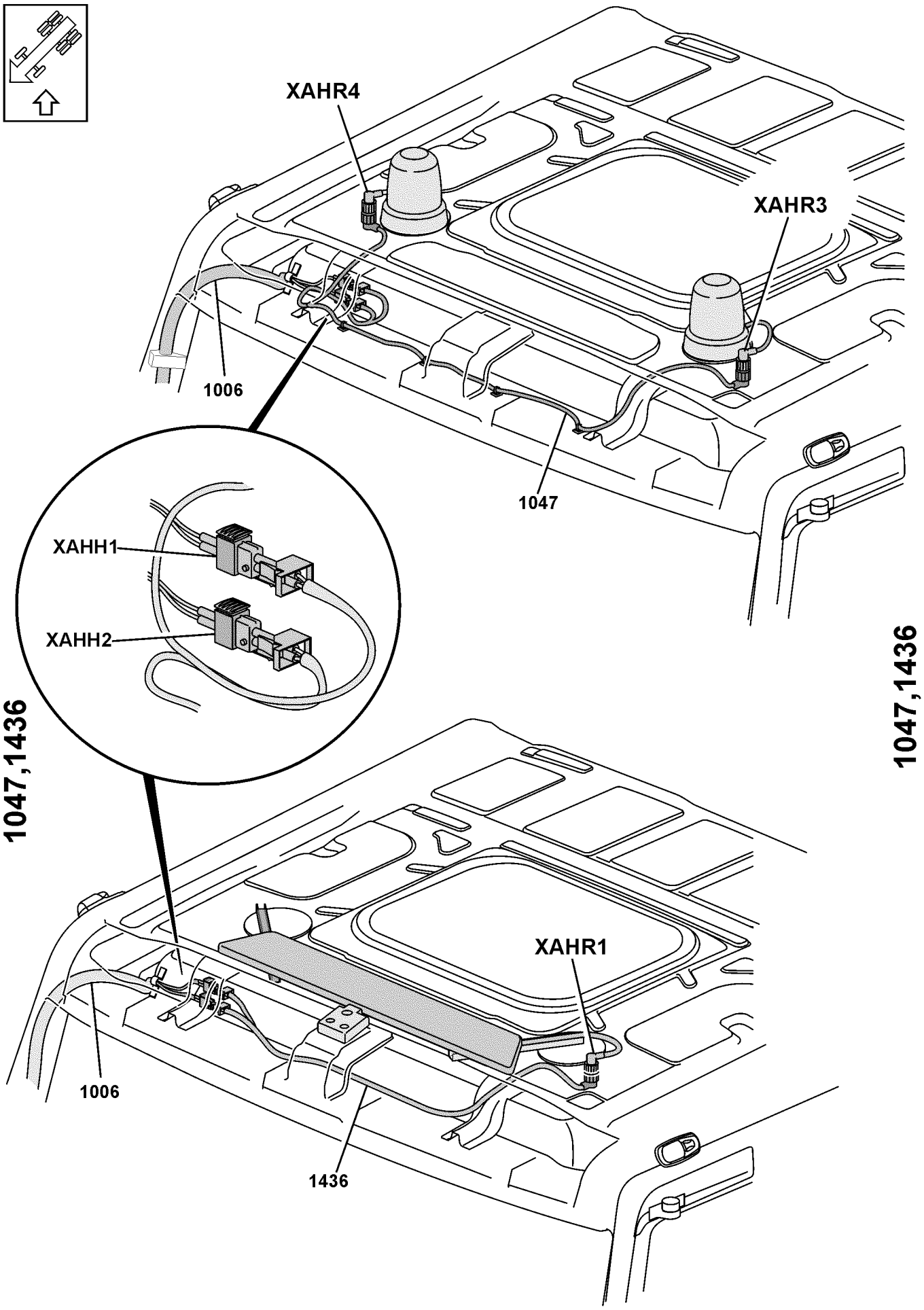

1063, 1077
1063
XFTP1
8 GY
1063
XFTP2
1 BK
1063
YFTP1
12 BL
1063
1040
E11RF
(CAB-CRW)
XC812
or
XC312
1077
1077
E11RC
1077
E11RR
1063
5.5
1077
E11RW
X02
1063
X03
1063
1077
E11LW
1077
1077
E11LR
1077
E11LC
1040
E11LF
1063, 1077
T3098284

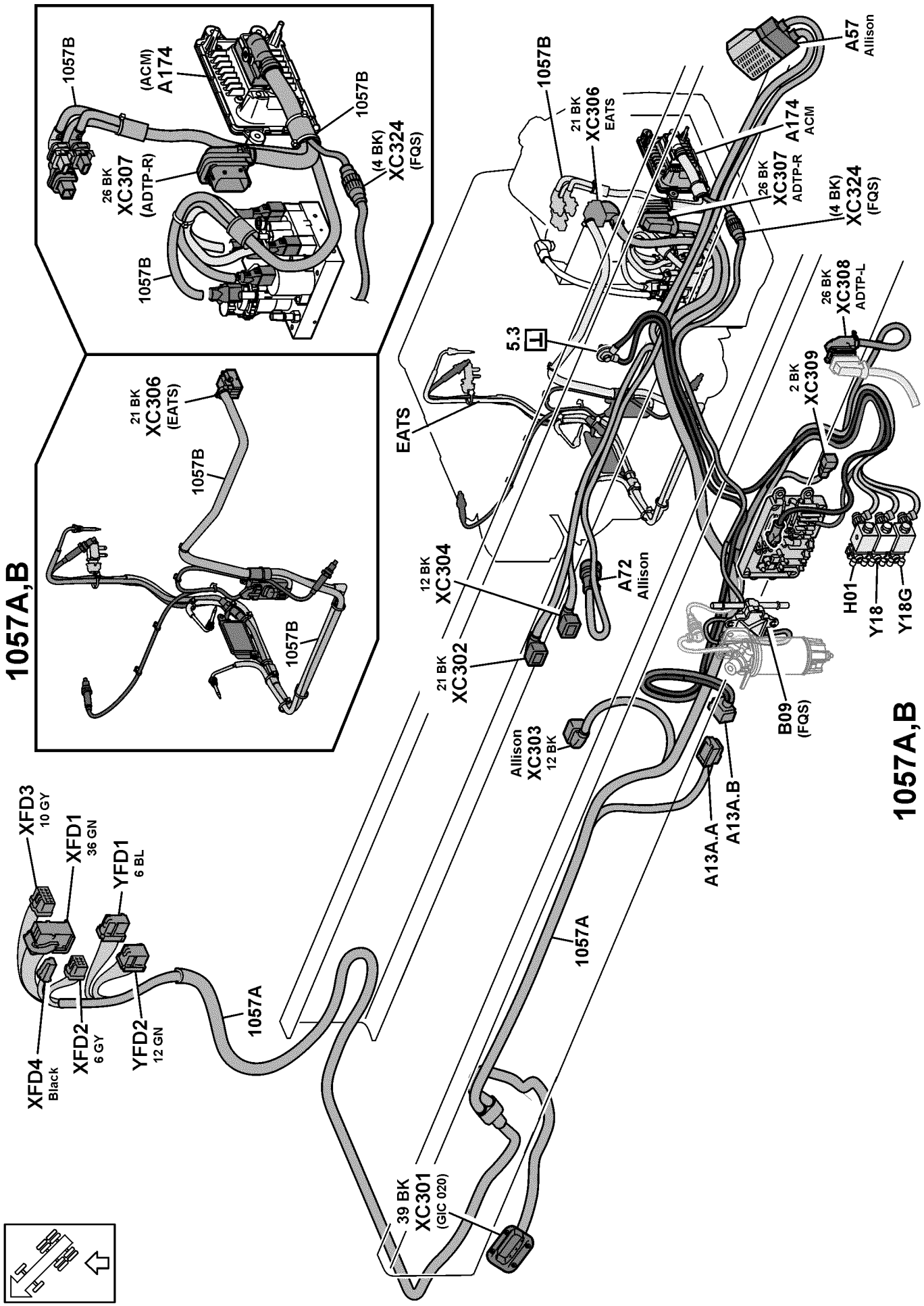

1040, 1063, SUSPL-E1/SUSPL-E3
8 GY
XFTP1
Trailer
12 GN
XFRC1
Rear Lights
9 BU
YFT1
Rear Axle
36 VO
YFRA1
Rear Axle
1 NL
XFTP2
Trailer
12 BL
YFTP1
Trailer
UO3_1C
B178
B179
RHS
LHS
LWS A/B
black
WSSA
grey
WSSB
black
CA NB
green
B146R1
B179
B181
B58
E27MR
E39
X02
X03
E39
E27ML
X62
H10
B58
B30
(FSS-LEAF)
A117M
5.6
Y02B
Y40R
(FSS-LEAF)
Y25
(FSS-AIR)
B30
(FSS-AIR)
B57
S45
UO3 1C
B29
(FSS-AIR)
B180
B146L1
B178
1040, 1063, SUSPL-E1/SUSPL-E3

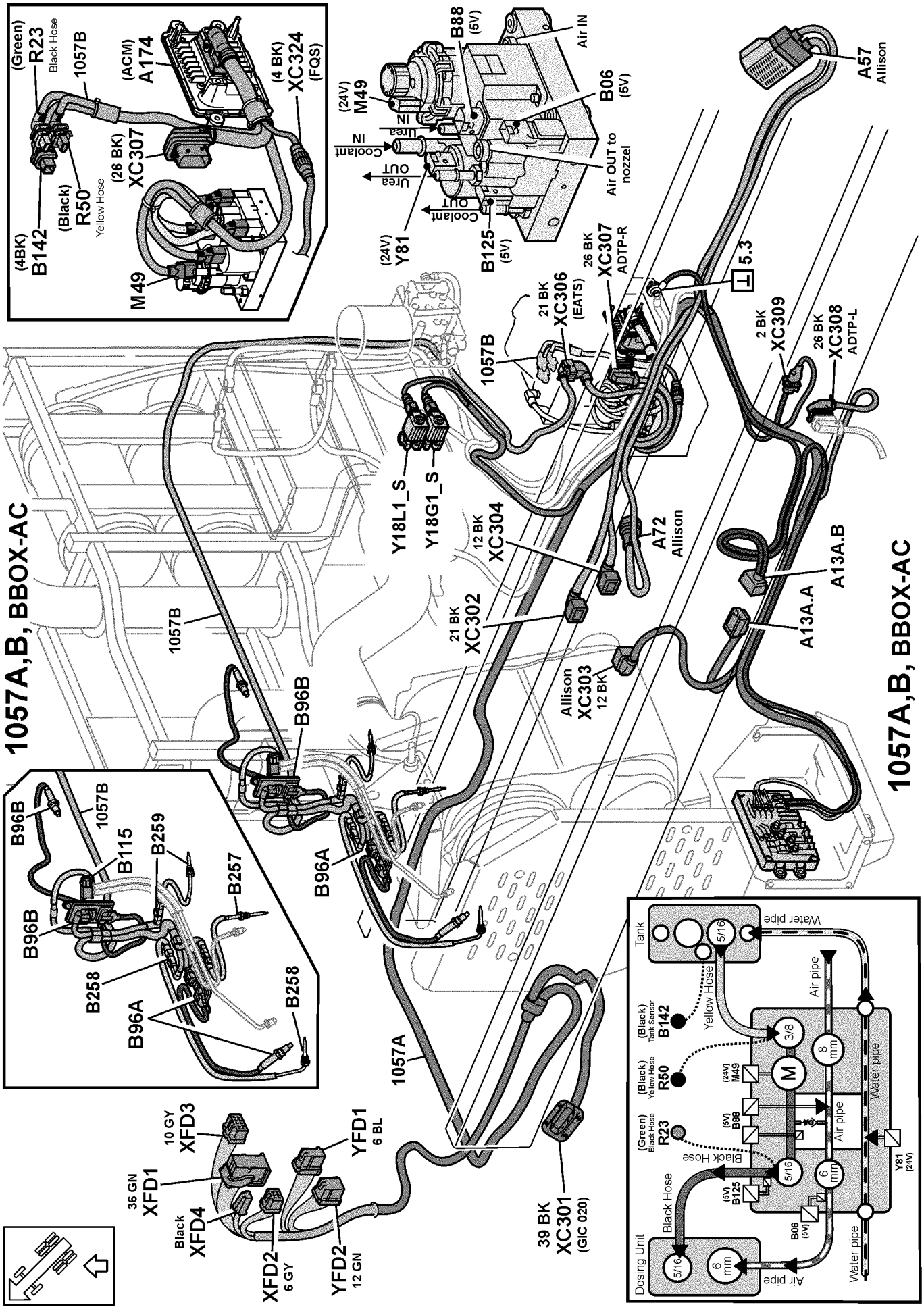
T3092724

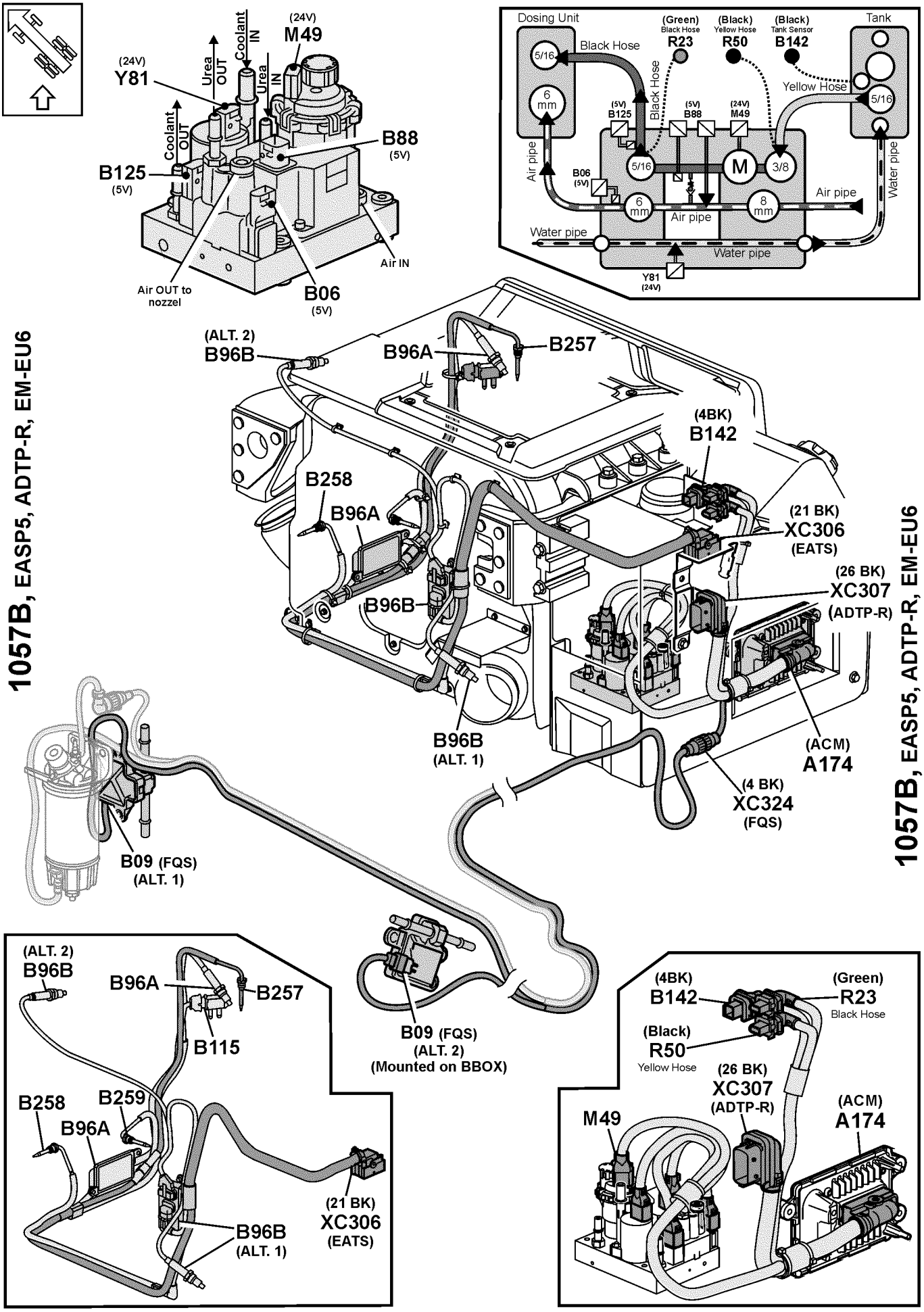

1040, 1063, GVW14000/GVW16000
UO3_1C
RHS
LHS
LWS A/B black
WSSA grey
WSSB black
CANB green
B178
B179
B146R1
B179
B181
B30
B58
8 GY
XFTP1
Trailer
12 GN
XFRC1
Rear Lights
9 BU
YFT1
Rear Axle
36 VO
YFRA1
Rear Axle
1 NL
XFTP2
Trailer
12 BL
YFTP1
Trailer
E27MR
E39
X02
X03
E39
E27ML
H10
X62
5.6
B58
A117M
B30
Y02B
Y25
B57
UO3 1C
S45
B180
B29
B146L1
B178
1040, 1063, GVW14000/GVW16000

T3092725

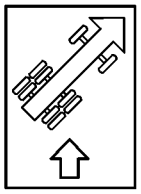

XAHR4
XAHR3
1006
1047
XAHH1
XAHH2
1047,1436
1047,1436
XAHR1
1006
1436
T3084617

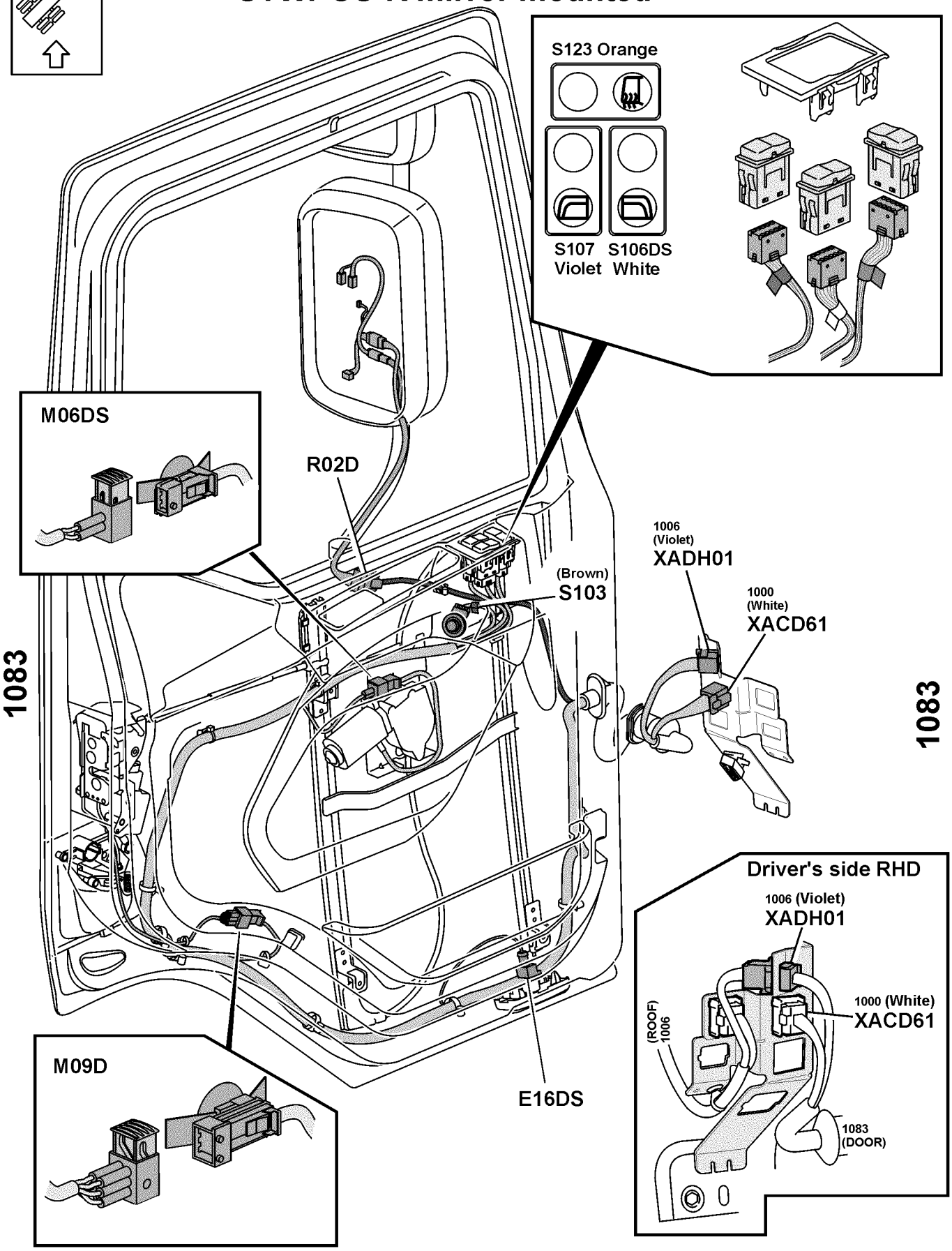

1057A,B
1057B
(ACM)
A174
26 BK
XC307
(ADTP-R)
(4 BK)
XC324
(FQS)
21 BK
XC306
(EATS)
EATS
5.3
21 BK
XC306
EATS
A57
Allison
A174
ACM
26 BK
XC307
ADTP-R
26 BK
XC308
ADTP-L
2 BK
XC309
12 BK
XC304
21 BK
XC302
A72
Allison
Allison
XC303
12 BK
H01
Y18
Y18G
B09
(FQS)
A13A.A
A13A.B
1057A
XFD3
10 GY
XFD1
36 GN
YFD1
6 BL
XFD4
Black
XFD2
6 GY
YFD2
12 GN
39 BK
XC301
(GIC 020)
T3091052


1057A,B, BBOX-AC
(Green) R23 Black Hose
1057B
(ACM) A174
(4 BK) XC324 (FQS)
(4BK) B142
(Black) R50 Yellow Hose
(26 BK) XC307
M49
(24V) M49
B88 (5V)
Air IN
B06 (5V)
Air OUT to nozzel
Coolant IN
Urea IN
Urea OUT
Coolant OUT
(24V) Y81
B125 (5V)
26 BK XC307 ADTP-R
21 BK XC306 (EATS)
5.3
2 BK XC309
26 BK XC308 ADTP-L
A57 Allison
Y18L1_S
Y18G1_S
12 BK XC304
A72 Allison
21 BK XC302
Allison XC303 12 BK
A13A.B
A13A.A
B96B
B96A
B115
B259
B257
B258
1057A
39 BK XC301 (GIC 020)
10 GY XFD3
36 GN XFD1
Black XFD4
XFD2 6 GY
YFD2 12 GN
YFD1 6 BL
Dosing Unit
Tank
Water pipe
Air pipe
Yellow Hose
Black Hose
(Black) Tank Sensor B142
(Black) Yellow Hose R50
(Green) Black Hose R23
(24V) M49
(5V) B88
(5V) B125
B06 (5V)
Y81 (24V)
5/16
6 mm
8 mm
3/8
M
T3102200


1057B, EASP5, ADTP-R, EM-EU6
(24V)
Y81
Urea OUT
Coolant IN
(24V)
M49
Urea IN
Coolant OUT
B88
(5V)
B125
(5V)
Air OUT to nozzel
B06
(5V)
Air IN
Dosing Unit
Tank
(Green)
Black Hose
R23
(Black)
Yellow Hose
R50
(Black)
Tank Sensor
B142
Black Hose
Yellow Hose
5/16
6 mm
(5V)
B125
(5V)
B88
(24V)
M49
Air pipe
B06
(5V)
M
3/8
8 mm
Water pipe
Y81
(24V)
(ALT. 2)
B96B
B96A
B257
(4BK)
B142
B258
B96A
(21 BK)
XC306
(EATS)
(26 BK)
XC307
(ADTP-R)
B96B
B96B
(ALT. 1)
(ACM)
A174
(4 BK)
XC324
(FQS)
B09 (FQS)
(ALT. 1)
B09 (FQS)
(ALT. 2)
(Mounted on BBOX)
(ALT. 2)
B96B
B96A
B257
B115
B258
B259
B96A
(21 BK)
XC306
(EATS)
B96B
(ALT. 1)
(4BK)
B142
(Green)
R23
Black Hose
(Black)
R50
Yellow Hose
(26 BK)
XC307
(ADTP-R)
(ACM)
A174
M49
T3102202

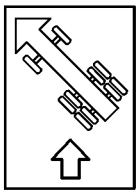
STWPOS-L Drawn
STWPOS-R mirror mounted

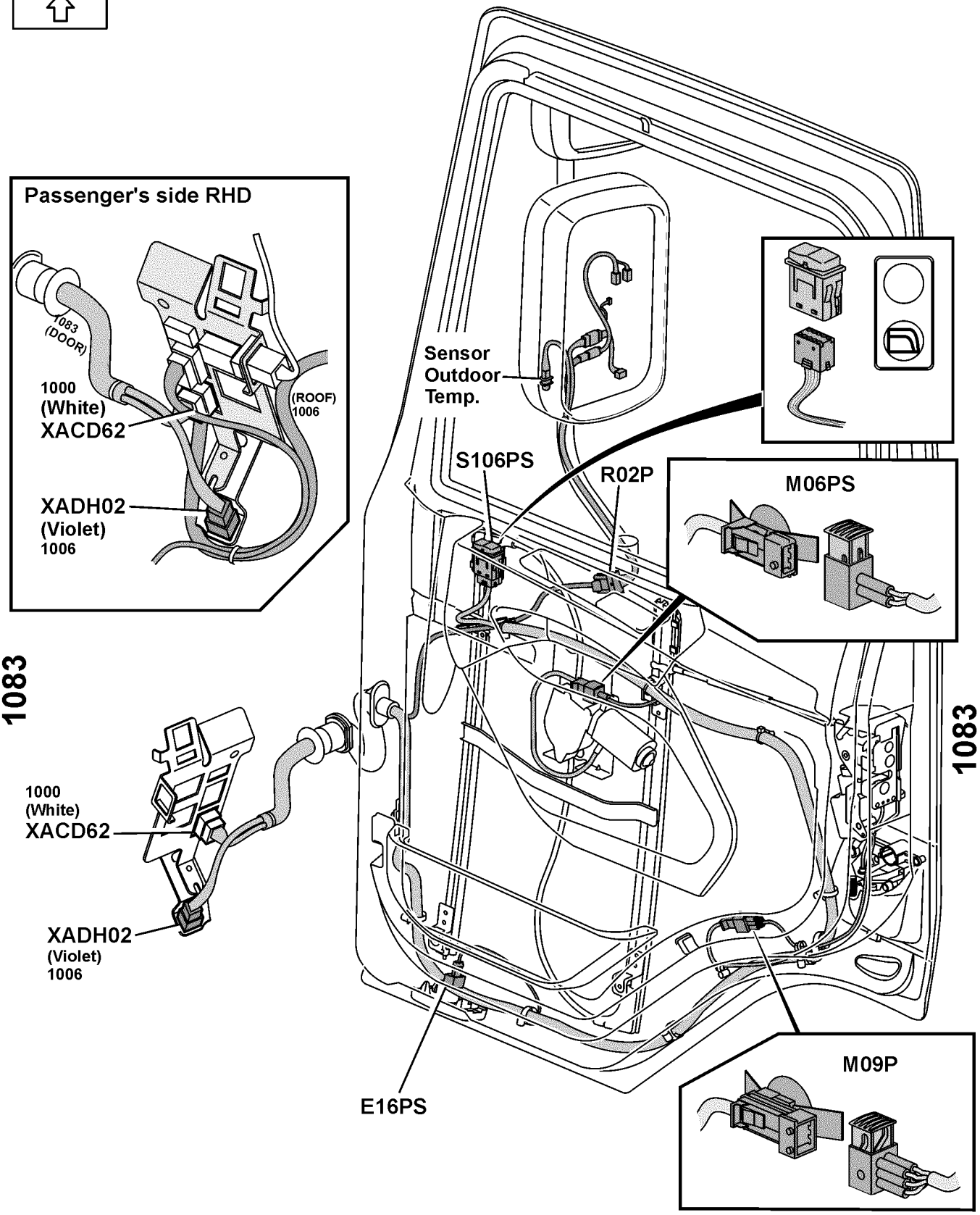




T3085713

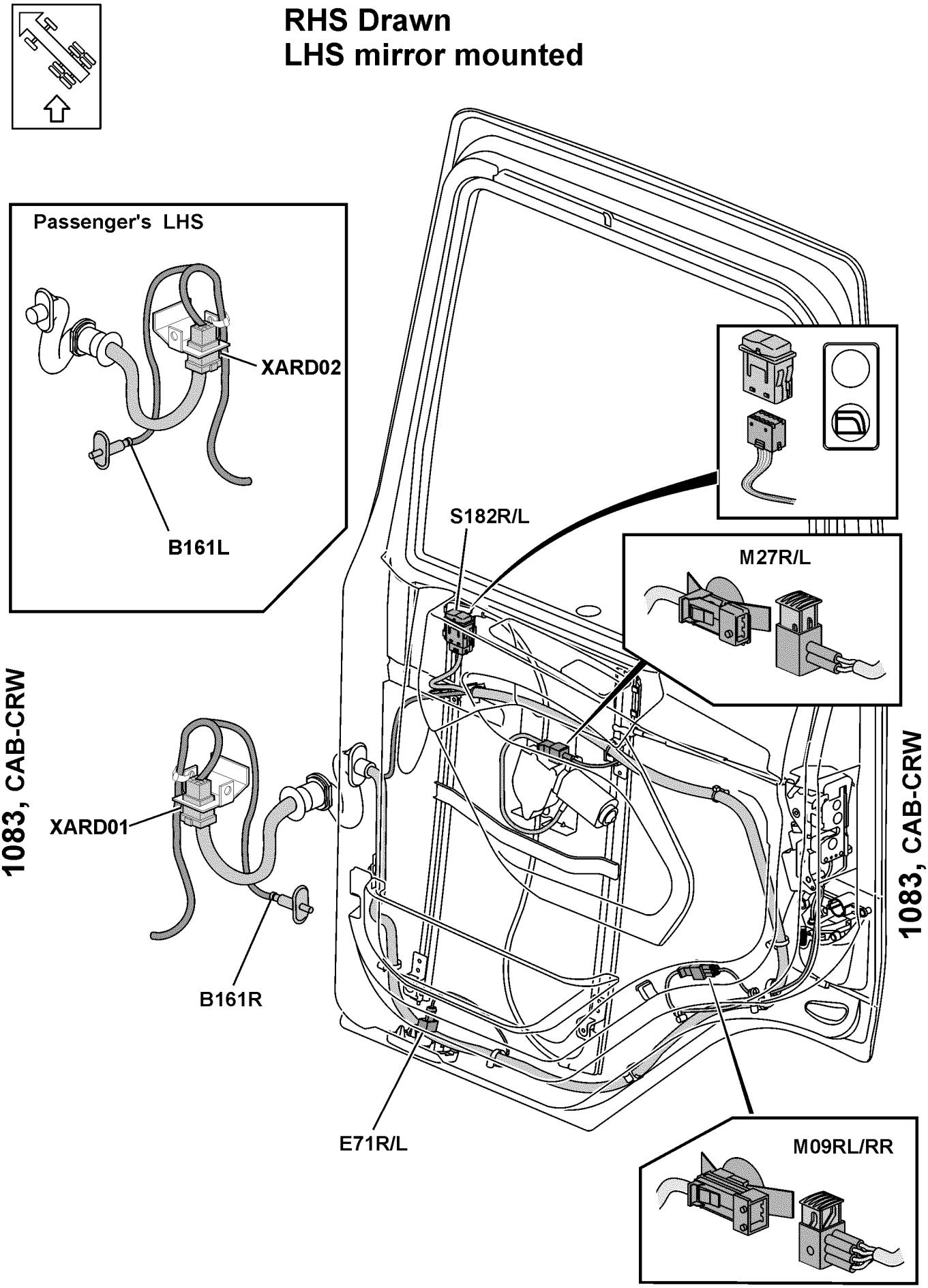
STWPOS-L Drawn
STWPOS-R mirror mounted



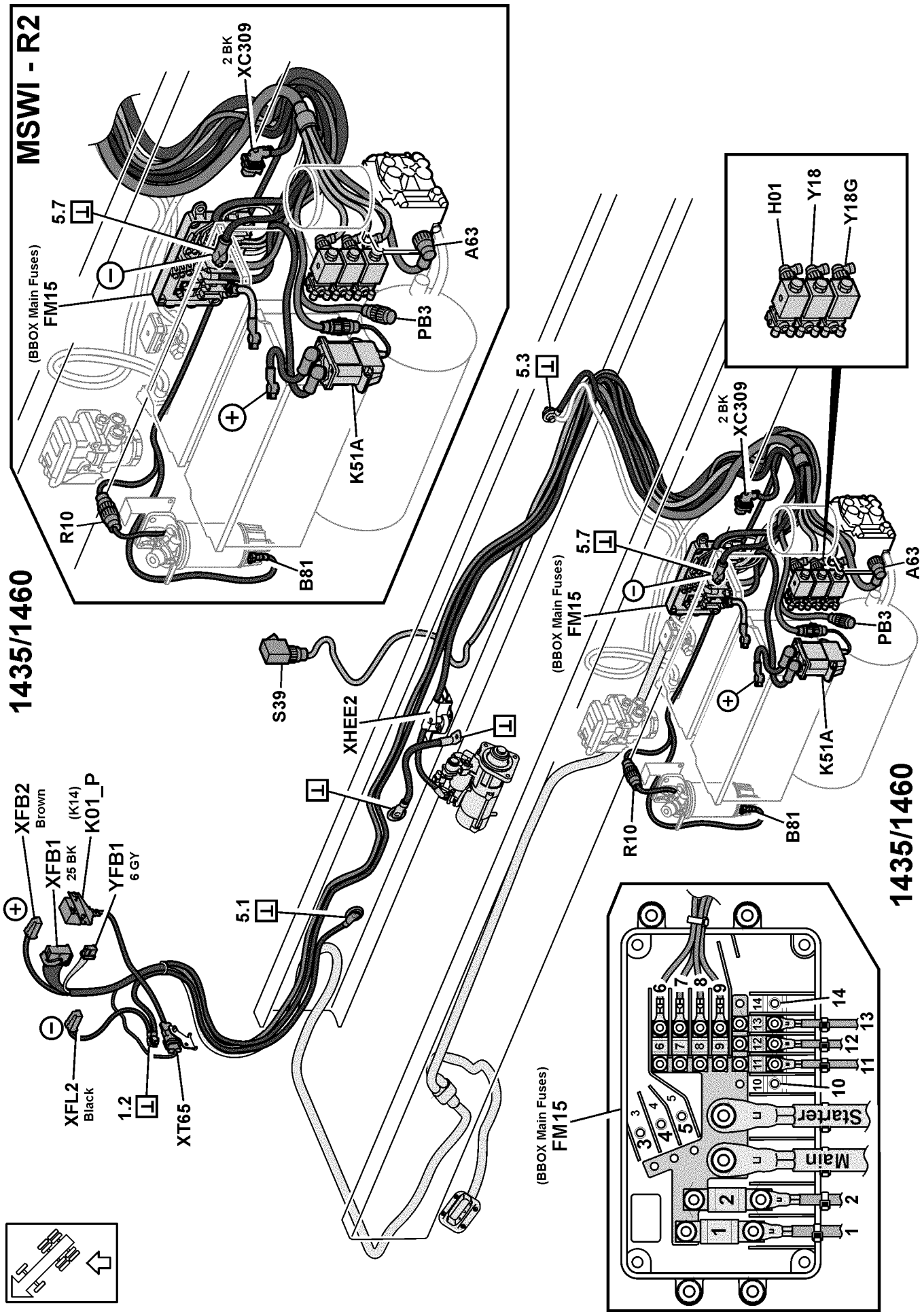


T3085721

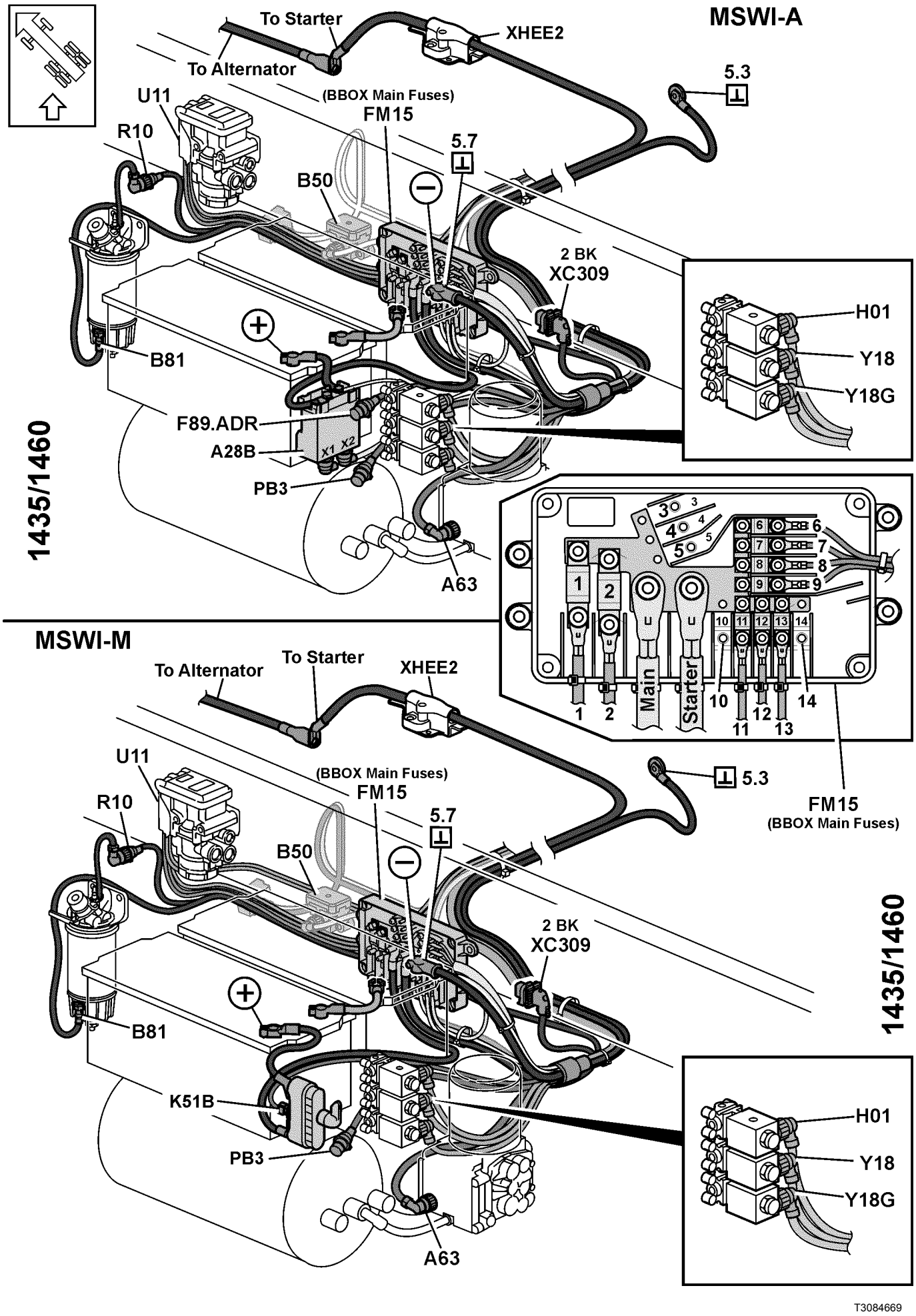
RHS Drawn
LHS mirror mounted

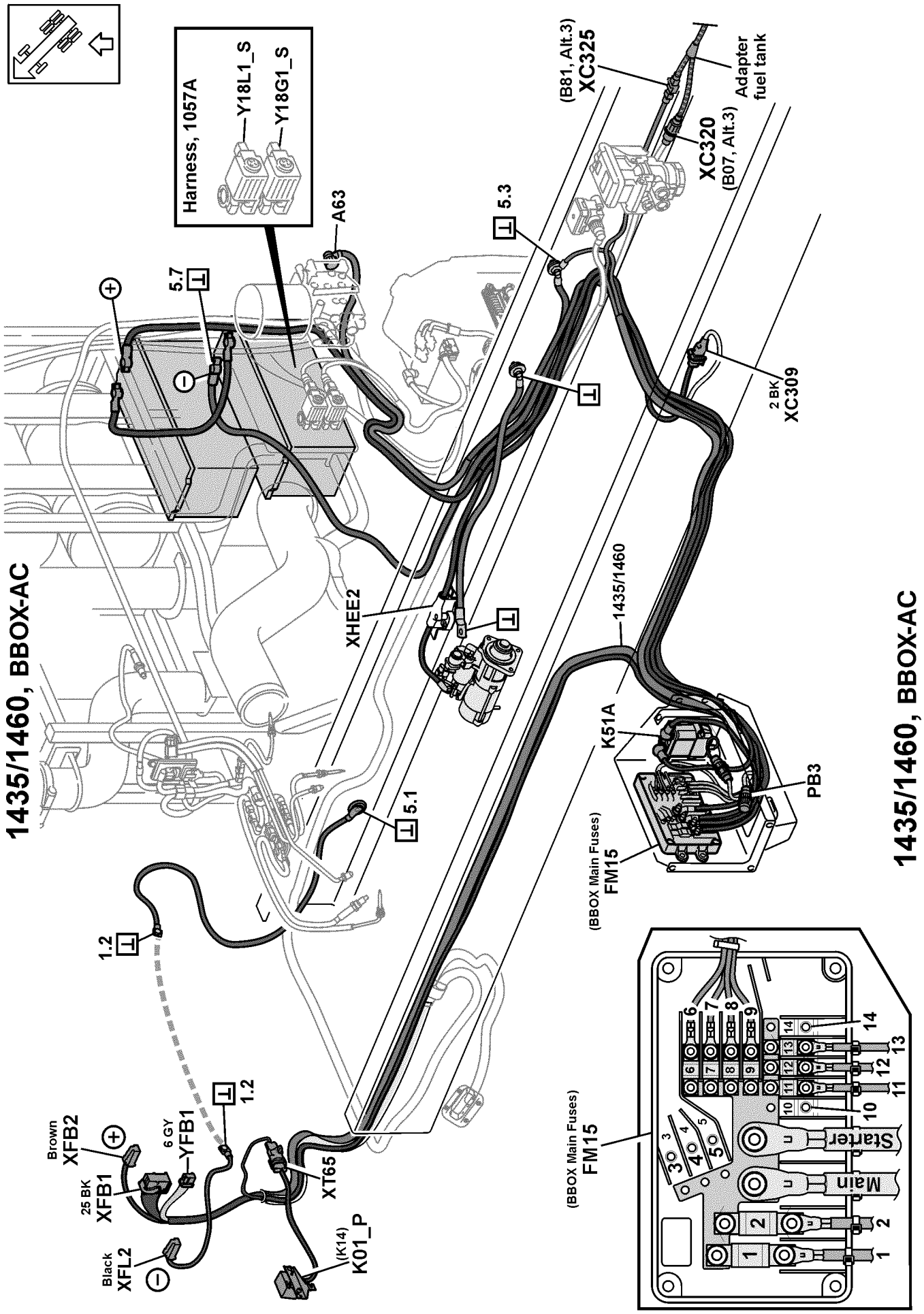


T3091047

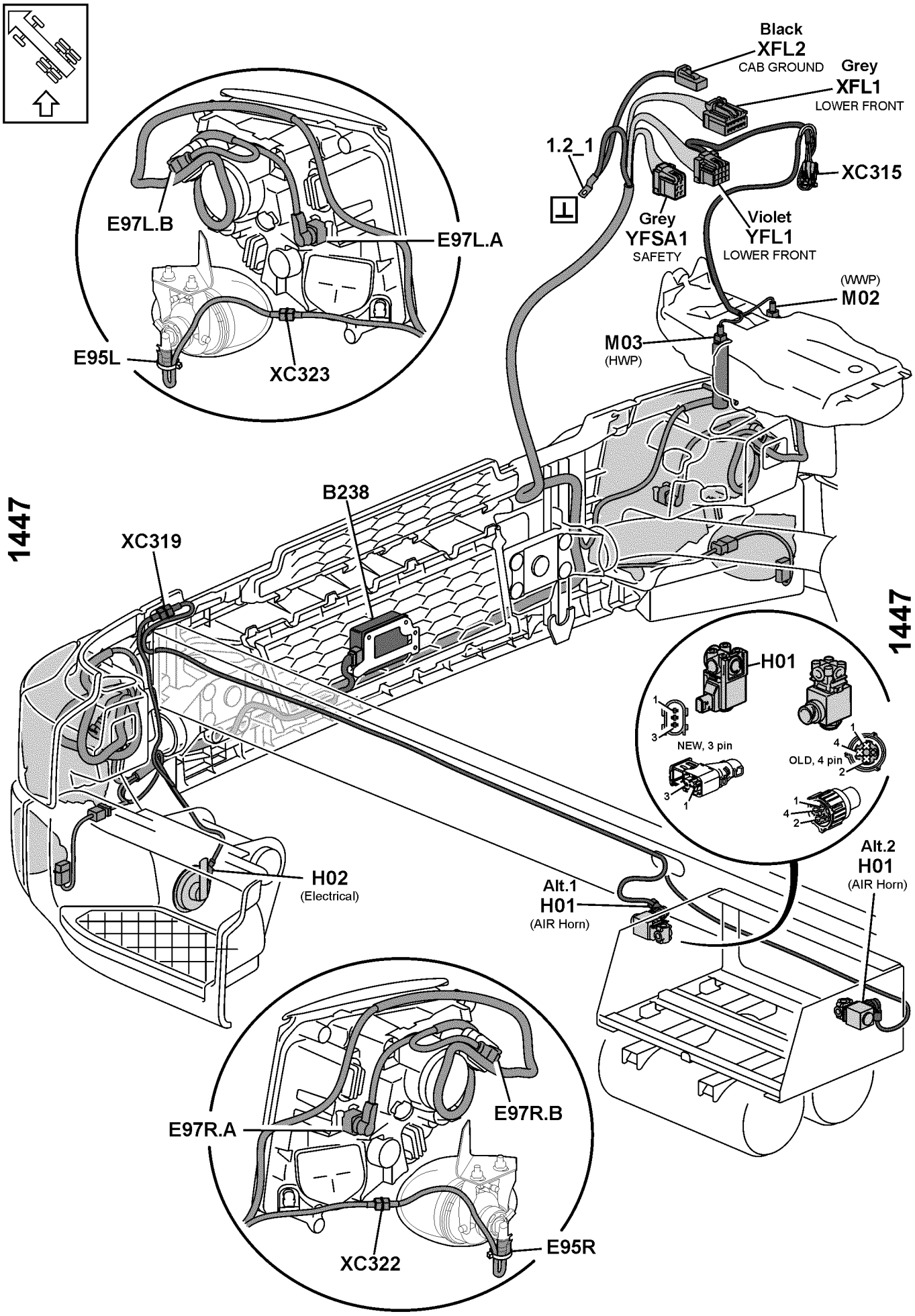

MSWI - R2
1435/1460
(BBOX Main Fuses)
FM15
5.7
2 BK
XC309
A63
PB3
K51A
R10
B81
5.3
H01
Y18
Y18G
S39
XHEE2
XFB2
Brown
XFB1
25 BK
(K14)
K01_P
YFB1
6 GY
5.1
XFL2
Black
1.2
XT65
Starter
Main
1435/1460

T3084668

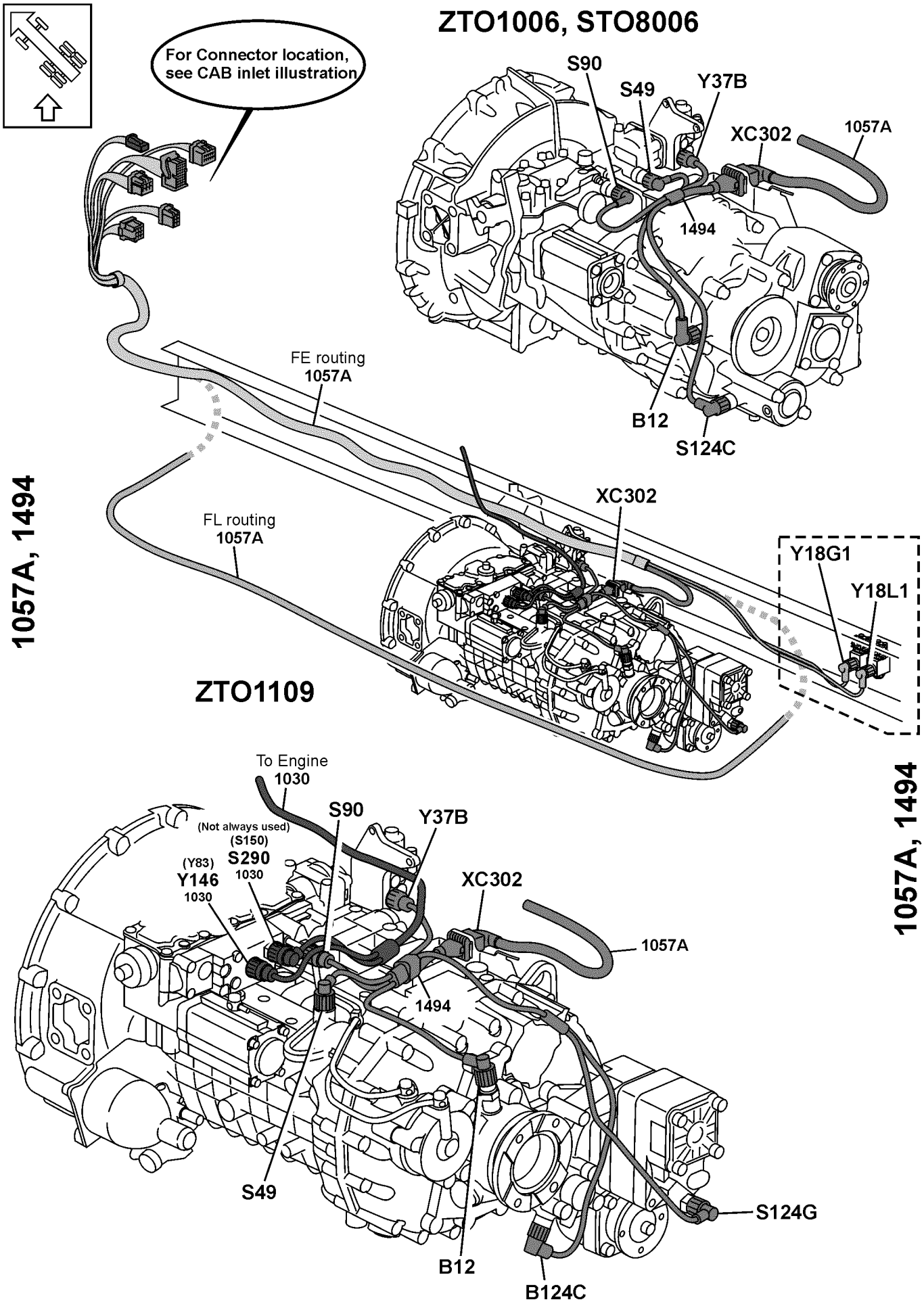

MSWI-A
To Starter
XHEE2
To Alternator
5.3
U11
(BBOX Main Fuses)
FM15
R10
5.7
B50
2 BK
XC309
H01
Y18
Y18G
B81
F89.ADR
A28B
X1
X2
PB3
1435/1460
A63
1
2
Main
Starter
10
11
12
13
14
3
4
5
6
7
8
9
MSWI-M
To Alternator
To Starter
XHEE2
U11
(BBOX Main Fuses)
FM15
5.3
FM15
(BBOX Main Fuses)
R10
5.7
B50
2 BK
XC309
1435/1460
B81
K51B
PB3
H01
Y18
Y18G
A63
T3084669


1435/1460, BBOX-AC
Harness, 1057A
Y18L1_S
Y18G1_S
A63
5.7
5.3
(B81, Alt.3)
XC325
Adapter fuel tank
XC320
(B07, Alt.3)
2 BK
XC309
XHEE2
1435/1460
K51A
PB3
(BBOX Main Fuses)
FM15
5.1
1.2
Brown
XFB2
25 BK
XFB1
6 GY
YFB1
Black
XFL2
XT65
(K14)
K01_P
Starter
Main
1435/1460, BBOX-AC

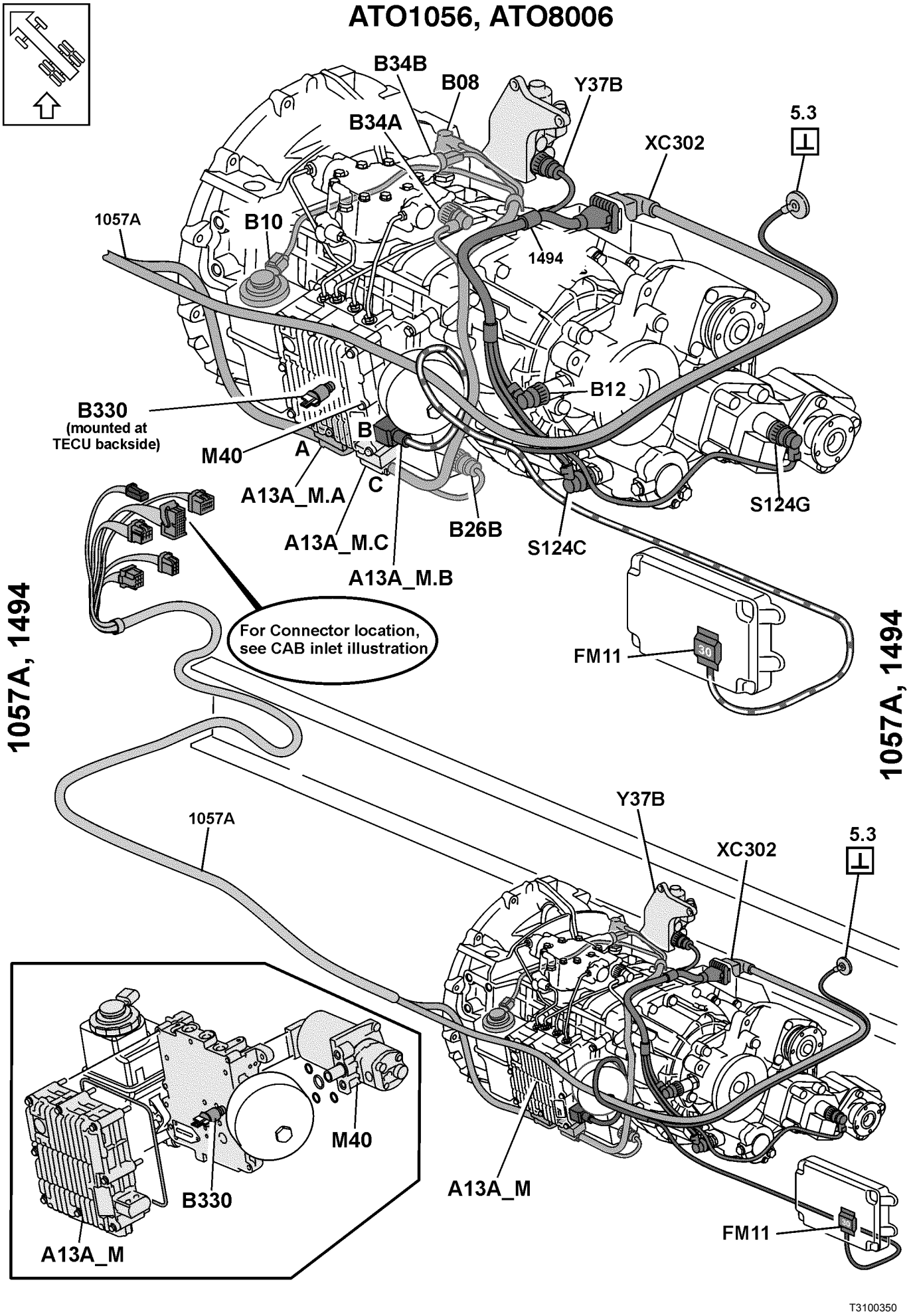
T3102199

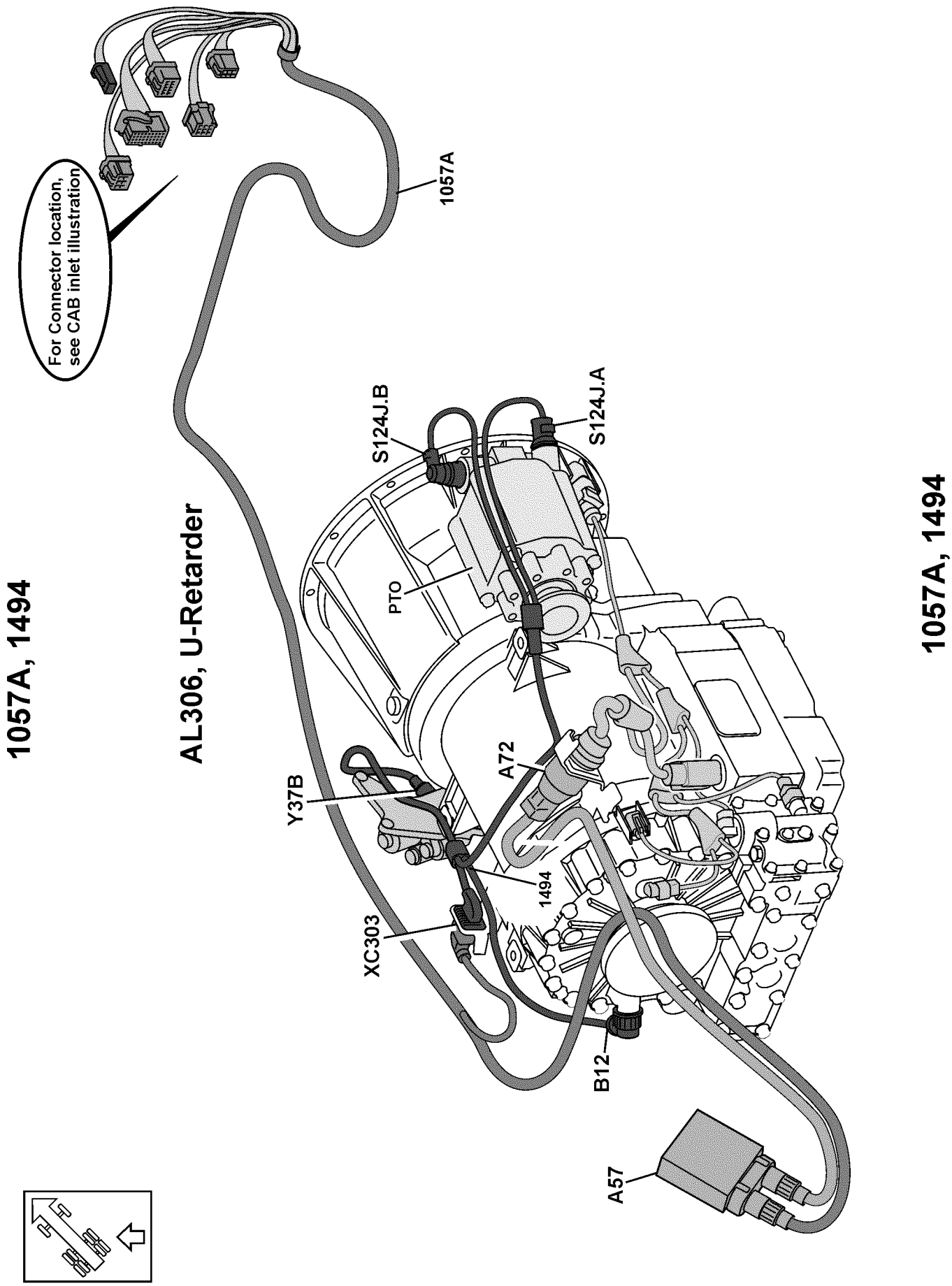

Black
XFL2
CAB GROUND
Grey
XFL1
LOWER FRONT
1.2_1
XC315
Grey
YFSA1
SAFETY
Violet
YFL1
LOWER FRONT
(WWP)
M02
M03
(HWP)
E97L.B
E97L.A
E95L
XC323
1447
B238
XC319
1447
H01
NEW, 3 pin
OLD, 4 pin
H02
(Electrical)
Alt.1
H01
(AIR Horn)
Alt.2
H01
(AIR Horn)
E97R.A
E97R.B
XC322
E95R

T3101553

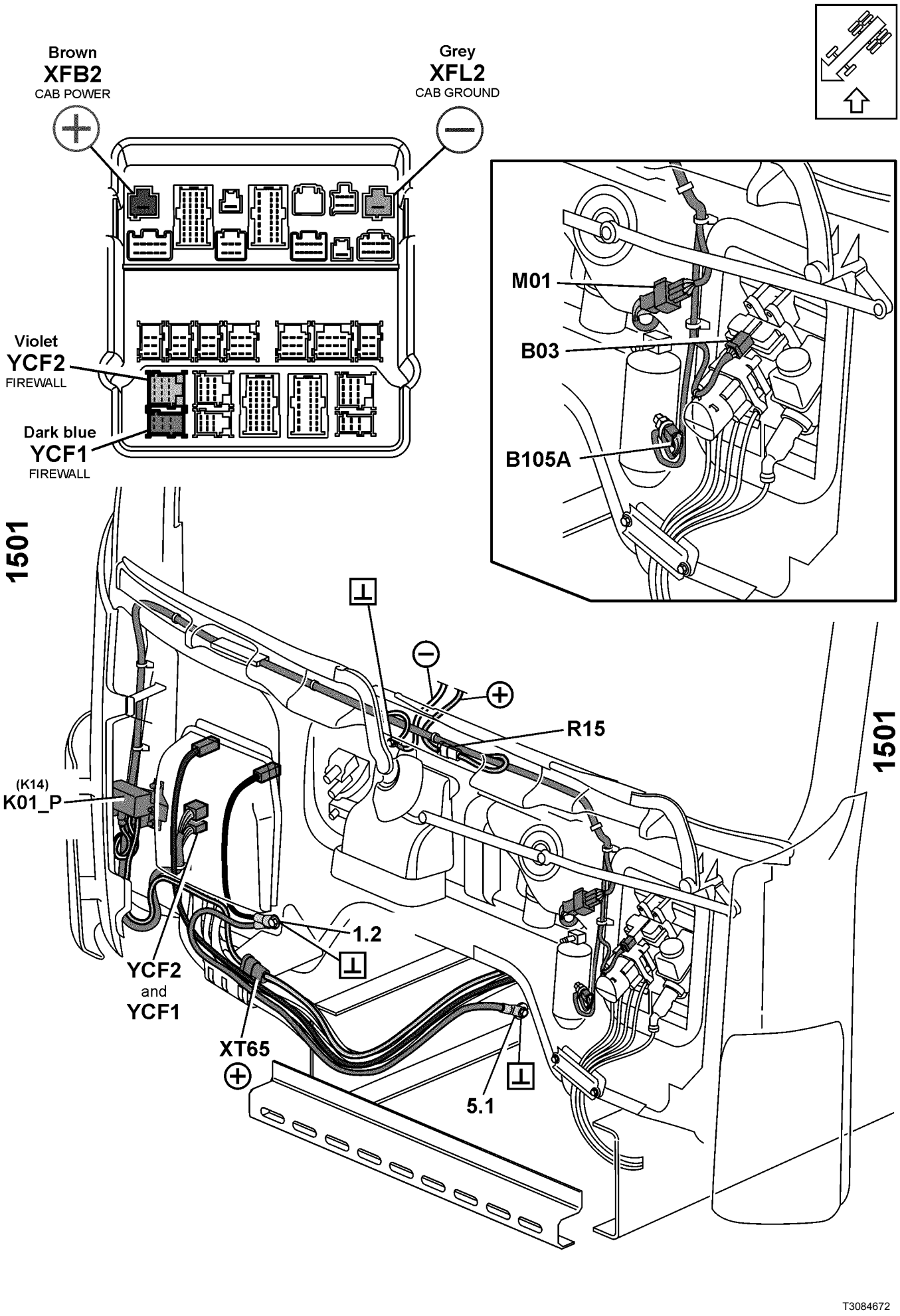

ZTO1006, STO8006
For Connector location, see CAB inlet illustration
S90
S49
Y37B
XC302
1057A
1494
B12
S124C
FE routing
1057A
FL routing
1057A
XC302
Y18G1
Y18L1
1057A, 1494
ZTO1109
To Engine
1030
S90
Y37B
(Not always used)
(S150)
S290
1030
(Y83)
Y146
1030
XC302
1057A
1494
S49
B12
B124C
S124G
1057A, 1494
T3084603

ATO1056, ATO8006

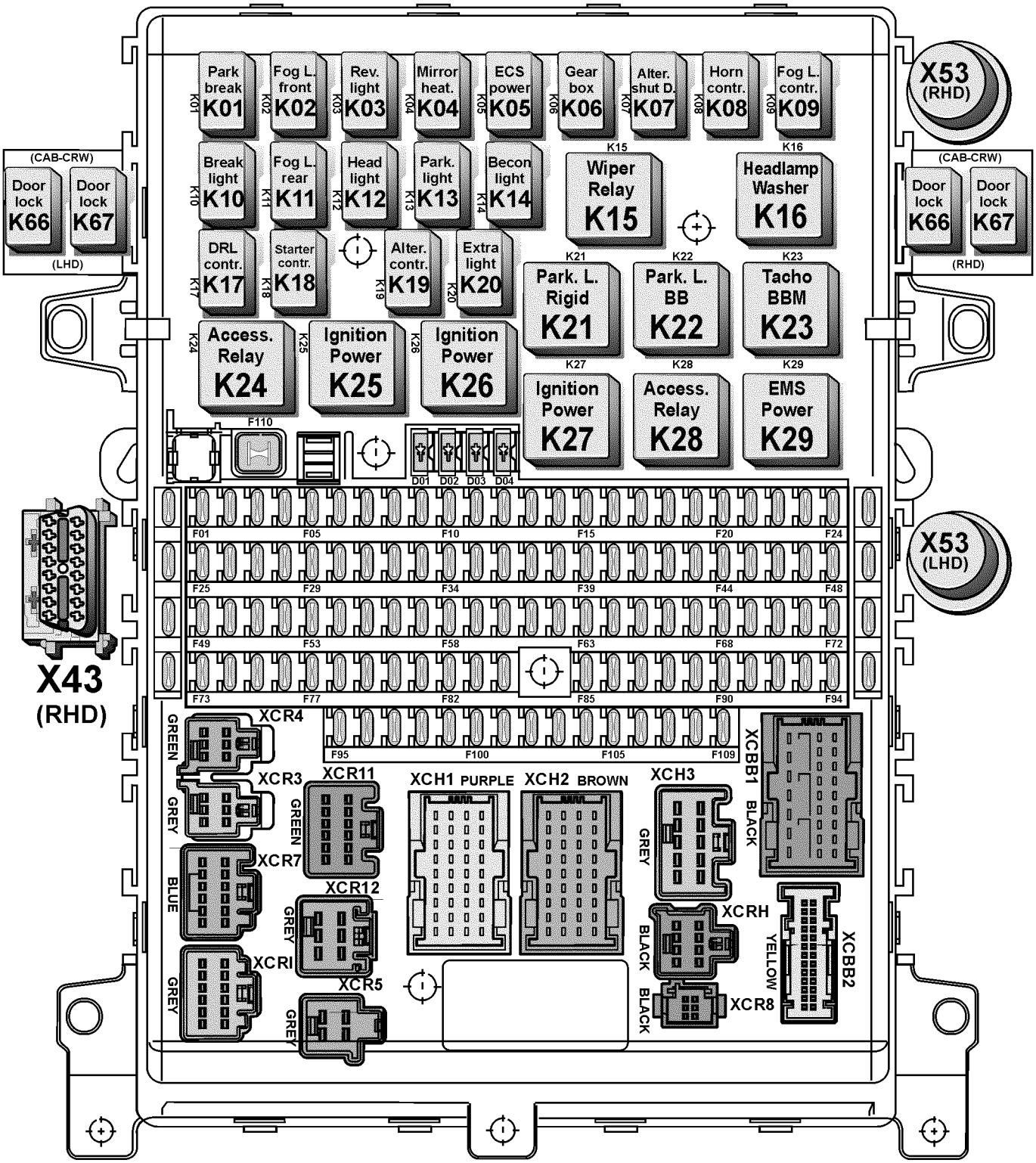



1057A, 1494
AL306, U-Retarder
For Connector location, see CAB inlet illustration
1057A
S124J.B
S124J.A
PTO
Y37B
A72
1494
XC303
B12
A57
1057A, 1494

T3084678


Brown
XFB2
CAB POWER
Grey
XFL2
CAB GROUND
Violet
YCF2
FIREWALL
Dark blue
YCF1
FIREWALL
M01
B03
B105A
1501
R15
(K14)
K01_P
1.2
YCF2
and
YCF1
XT65
5.1
1501
T3084672

Fuses

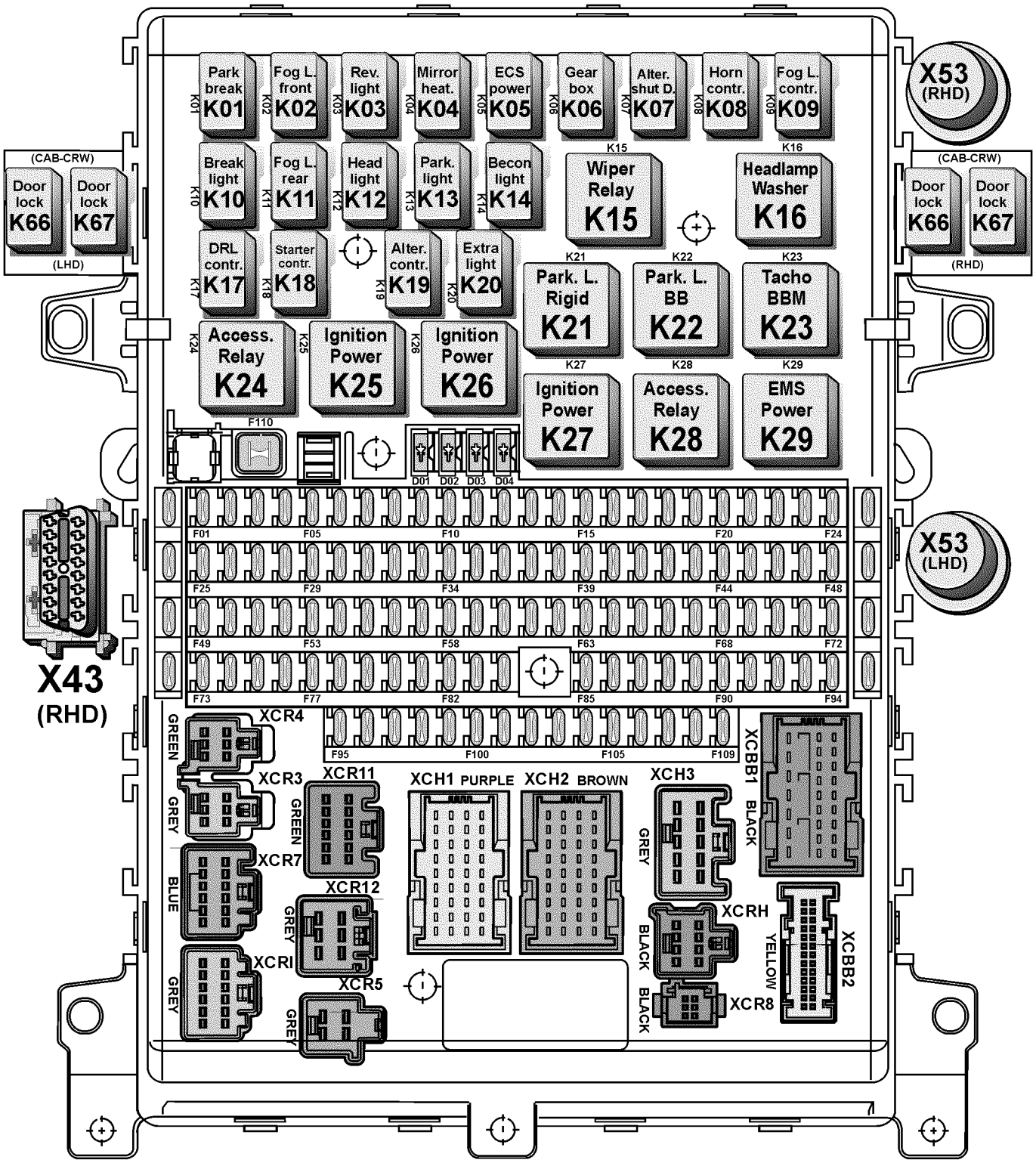


T3091048

F01	TGW2, TGW2 retrofit (pos. 1)	(AK:2 B)
F02	Power take off (pos. 2)	(AJ:2 C)
F03	DRL lamps (pos. 3)	(AJ:3 C)
F04	Front fog lights (pos. 4)	(GB2:0 A)
F05	Windows lift (pos. 5)	(AG:1 C)
F06	Not used (pos. 6)	(AG:0 C)
F07	Reverse lights (pos. 7)	(GD:2 A)
F08	Not used (pos. 8)	(AJ:1 C)
F09	Air suspension (pos. 9)	(AH:4 C)
F10	Climate unit / Compressor management (pos. 10)	(AH:1 C)
F11	FMS gateway (pos. 11)	(AH:1 C)
F12	Climat unit, cab control temp (pos. 12)	(AH:0 C)
F13	EI, adjustable rear view mirrors (pos. 13)	(IF1:0 A)
F14	FMS, reverse lighting (pos. 14)	(AI:2 C)
F15	EBS (pos. 15)	(AI:2 C)
F16	Windscreen wiper (pos. 16)	(AI:1 C)
F17	Not used (pos. 17)	(AG:3 C)
F18	Not used (pos. 18)	(AG:4 C)
F19	Allison diagnostics (pos. 19)	(DQ1:2 A)
F20	Motor headlamp washer pump (pos. 20)	(GM:1 B)
F21	Not used (pos. 21)	(AL:2 D)
F22	EMS supply engine interface (pos. 22)	(AL:3 D)
F23	VGT interface (pos. 23)	(AL:3 D)
F24	FMS connector (pos. 24)	(AK:1 B)
F25	Voltage converter 15A 24/12V (pos. 25)	(IR1:2 A)
F26	Diagnostic plug (pos. 26)	(AK:4 B)
F27	Interior lighting lamp, loading light (pos. 27)	(GH1:4 A)
F28	Converter 15A 24/12V (pos. 28)	(AG:1 C)
F29	Headlights, left front (pos. 29)	(GB1:2 C)
F30	Headlights, right front (pos. 30)	(GB1:1 C)
F31	Heater fuel, pre filter (pos. 31)	(AJ:0 C)
F32	Fuel heater (pos. 32)	(AJ:1 C)
F33	ABS trailer / ABS trailer rigid / ABS trailer tractor (pos. 33)	(AH:2 C)
F34	Trailer connection (pos. 34)	(AH:3 C)
F35	Allison Gear box 3000V, AMTE off road mode, Gecu Allison, Optidriver2 (pos. 35)	(AJ:3 C)
F36	Hydraulic ZF / Redundant line (pos. 36)	(AH:3 C)
F37	Immobilizer / Central locking / Alarm / DPF switch VT / Instrument cluster / APM (pos. 37)	(AI:0 C)
F38	Body builder (pos. 38)	(AI:4 C)
F39	Body builder connector on cab (pos. 39)	(AI:4 C)
F40	Cab tilt (pos. 40)	(AI:2 C)
F41	Plug customer interior cab (pos. 41)	(AG:4 C)
F42	Sun Roof (pos. 42)	(AG:3 C)
F43	Not used (pos. 43)	(AL:2 D)
F44	Not used (pos. 44)	(AL:2 D)
F45	Not used (pos. 45)	(AL:2 D)
F46	EGR engine (pos. 46)	(AL:3 D)
F47	Cooling fan (pos. 47)	(AL:3 D)
F48	EBS (pos. 48)	(AK:2 B)
F49	Key switch (pos. 49)	(AK:0 B)
F50	Rear fog lights (pos. 50)	(GB2:2 C)
F51	Rear fog trailer plug (pos. 51)	(GB2:2 C)
F52	Cigarette lighter (pos. 52)	(AG:1 C)
F53	ADR/TRS, D+ short circuit relay (pos. 53)	(AD:4 D)
F54	Airbag (pos. 54)	(IM:0 B)
F55	Instrument cluster (pos. 55)	(AE:2 C / AF:1 C)
F56	Flasher and hazard warning light switch (pos. 56)	(AE:1 C / AF:1 C)
F57	ADR, horameter, parking heater (pos. 57)	(AN:2 C)
F58	Heated seat, BBM connector engine running (pos. 58)	(AN:3 C)
F59	FMS, reverse lighting (pos. 59)	(AL:1 B)
F61	Parking lighting trailer right and right tractor (pos. 61)	(GA1:0 C)
F62	Parking light, right rear lights (pos. 62)	(GA1:1 C)
F63	Parking light, left rear lights (pos. 63)	(GA1:2 C)
F64	Parking lighting trailer left, left tractor and left rigid (pos. 64)	(GA1:1 C)
F65	Body builder connector (pos. 65)	(NA:1 B)

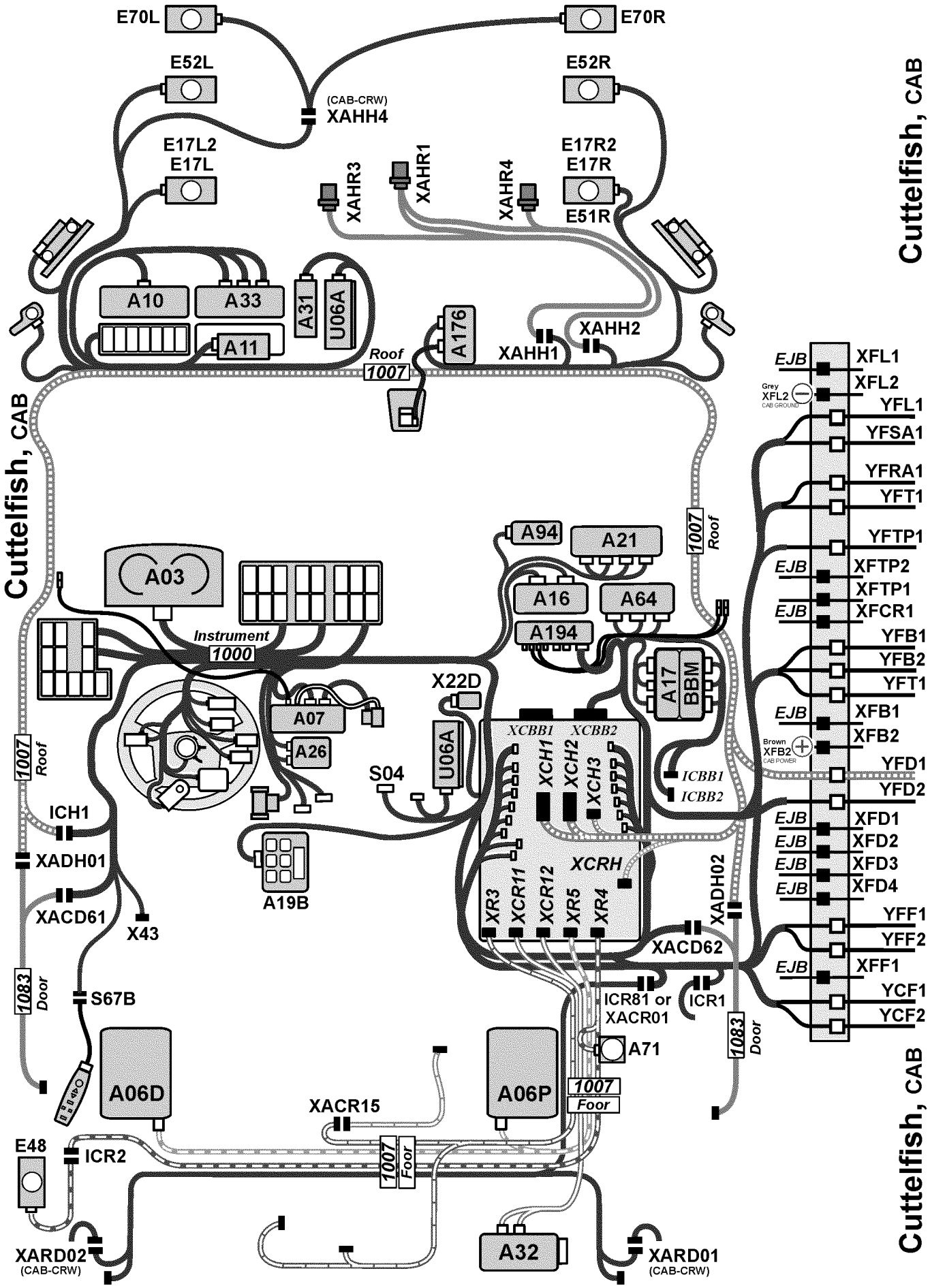
F66	Chassis lighting, machine control (pos. 66)	(NB:4 A)
F67	Parking lighting trailer / Body builder connector (left) (pos. 67)	(GA2:4 B)
F68	Tachograph (pos. 68)	(AL:3 B)
F69	HIOM / ACM (pos. 69)	(AL:3 B)
F70	Valve neutral TB control / BBM ECU (pos. 70)	(AL:4 B)
F71	VECU (pos. 71)	(AL:3 B)
F72	AVU (pos. 72)	(AL:4 B)
F73	RASEC / TPM ECU (pos. 73)	(AK:4 B)
F74	Horn (pos. 74)	(GQ1:2 B)
F75	Front fog (right) (pos. 75)	(GB2:0 C)
F76	Front fog (left) (pos. 76)	(GB2:0 C)
F77	Not used (pos. 77)	(AE:3 C / AF:3 C)
F78	Trailer connections (pos. 78)	(AL:0 B)
F79	Air heater, UADR (pos. 79)	(HJ:1 A / HJ1:2 A)
F80	Control unit immobilizer (pos. 80)	(AK:0 B / AF:2 C)
F81	Door lock remote control (pos. 81)	(AE:2 C / AF:2 C)
F82	Frame side lights, headlights lamps, roof position light, right (pos. 82)	(GA2:0 C)
F83	Frame side lights, headlights lamps, roof position light, left (pos. 83)	(GA2:0 C)
F84	Parking light, customer gloves boxes (pos. 84)	(GA2:4 B)
F86	Beacon warning light (pos. 86)	(GC2:3 A)
F87	Tractor brake lights (pos. 87)	(GD:3 C)
F88	Trailer brake lights, Australia trailer brake lights rigid and tractor (pos. 88)	(GD:4 C)
F89	Parking lighting trailer / Body builder connector (right) (pos. 89)	(GA2:4 B)
F89_ ADR	Tachograph, ADR (pos. Battery box)	(AC:0 B)
F90	Automatic transmission (pos. 90)	(DQ1:0 A) / (DO:2 A)
F91	Stalk switch (pos. 91)	(GA1:1 A)
F92	Wiper IC (pos. 92)	(AK:1 B)
F93	Not used (pos. 93)	(KA:1 A)
F94	Flasher (pos. 94)	(AK:3 B)
F95	Parking heater / Air parking , water heater (pos. 95)	(AE:0 C / AF:0 C)
F96	Voltage converter (pos. 96)	(IR:3 A)
F98	Tachograph (pos. 98)	(AF:0 C)
F99	Control unit, burglar alarm (pos. 99)	(IN:1 B)
F100	FMS gateway (pos. 100)	(AK:1 B)
F101	Parking light (pos. 101)	(GA2:2 B)
F102	APM (pos. 102)	(AK:3 B)
F103	Parking light (pos. 103)	(AL:0 B)
F104	Interior lamps (pos. 104)	(H1:0 A)
F105	Headershelf Or Electrical predisposal (pos. 105)	(IR:4 A)
F106	Voltage converter (pos. 106)	(IR:2 A)
F107	Not used (pos. 107)	(AK:3 B)
F108	24V customer plug (pos. 108)	(IR:3 A)
F109	ZF hydraulic retarder (pos. 109)	(AK:1 B)
F-M15	Fuse group (pos. Battery Box)	(AA:0 B / AC:3 A)

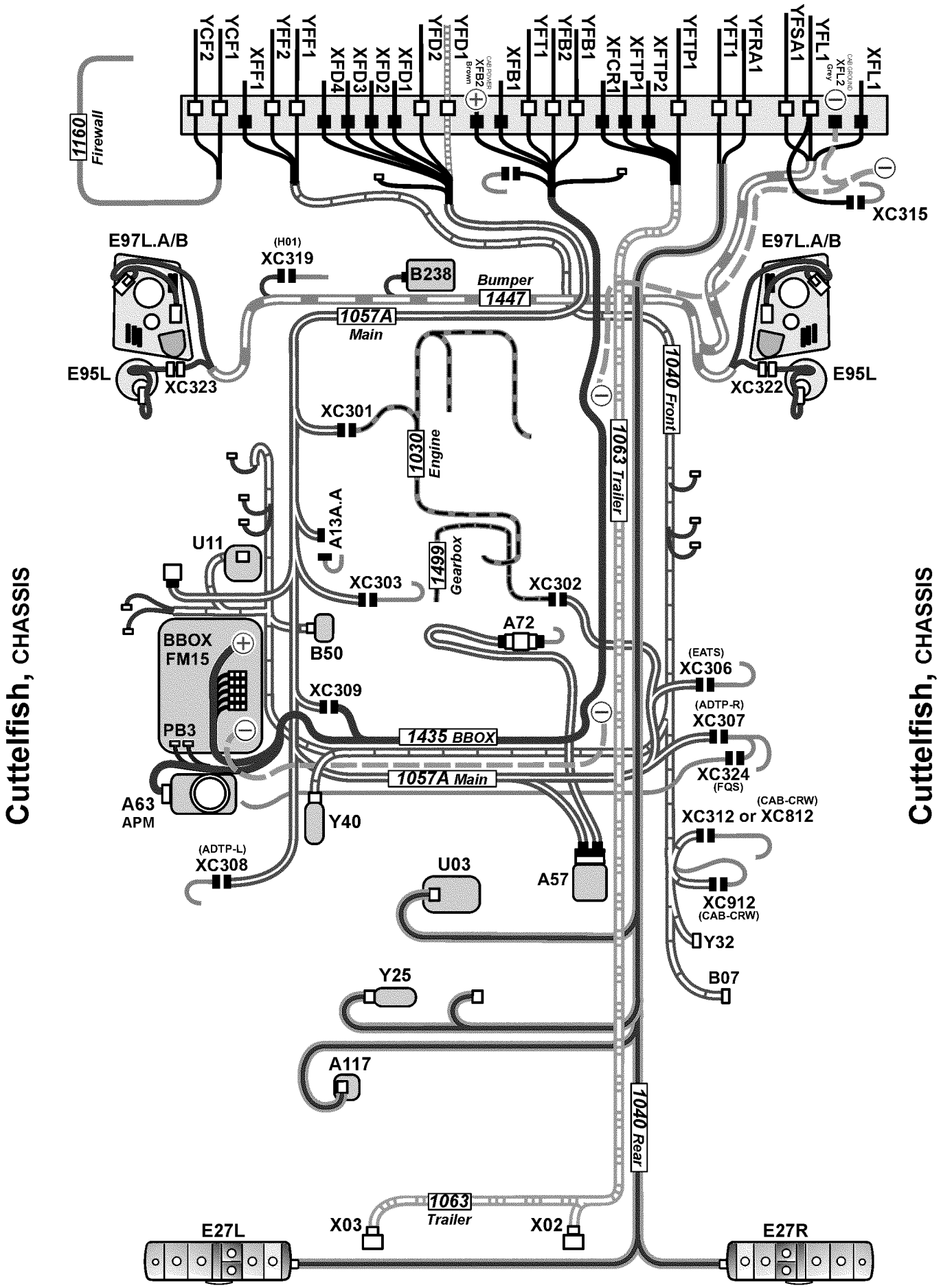
Relays


Park break K01
Fog L. front K02
Rev. light K03
Mirror heat. K04
ECS power K05
Gear box K06
Alter. shut D. K07
Horn contr. K08
Fog L. contr. K09
Break light K10
Fog L. rear K11
Head light K12
Park. light K13
Becon light K14
Wiper Relay K15
Headlamp Washer K16
DRL contr. K17
Starter contr. K18
Alter. contr. K19
Extra light K20
Park. L. Rigid K21
Park. L. BB K22
Tacho BBM K23
Access. Relay K24
Ignition Power K25
Ignition Power K26
Ignition Power K27
Access. Relay K28
EMS Power K29
(CAB-CRW)
Door lock K66
Door lock K67
(LHD)
(RHD)
X53 (RHD)
X53 (LHD)
X43 (RHD)
F110
D01 D02 D03 D04
XCR4
XCR3
XCR11
XCR7
XCR12
XCRI
XCR5
XCH1 PURPLE
XCH2 BROWN
XCH3
XCBB1
XCRH
XCR8
XCBB2
GREEN
GREY
BLUE
BLACK
YELLOW

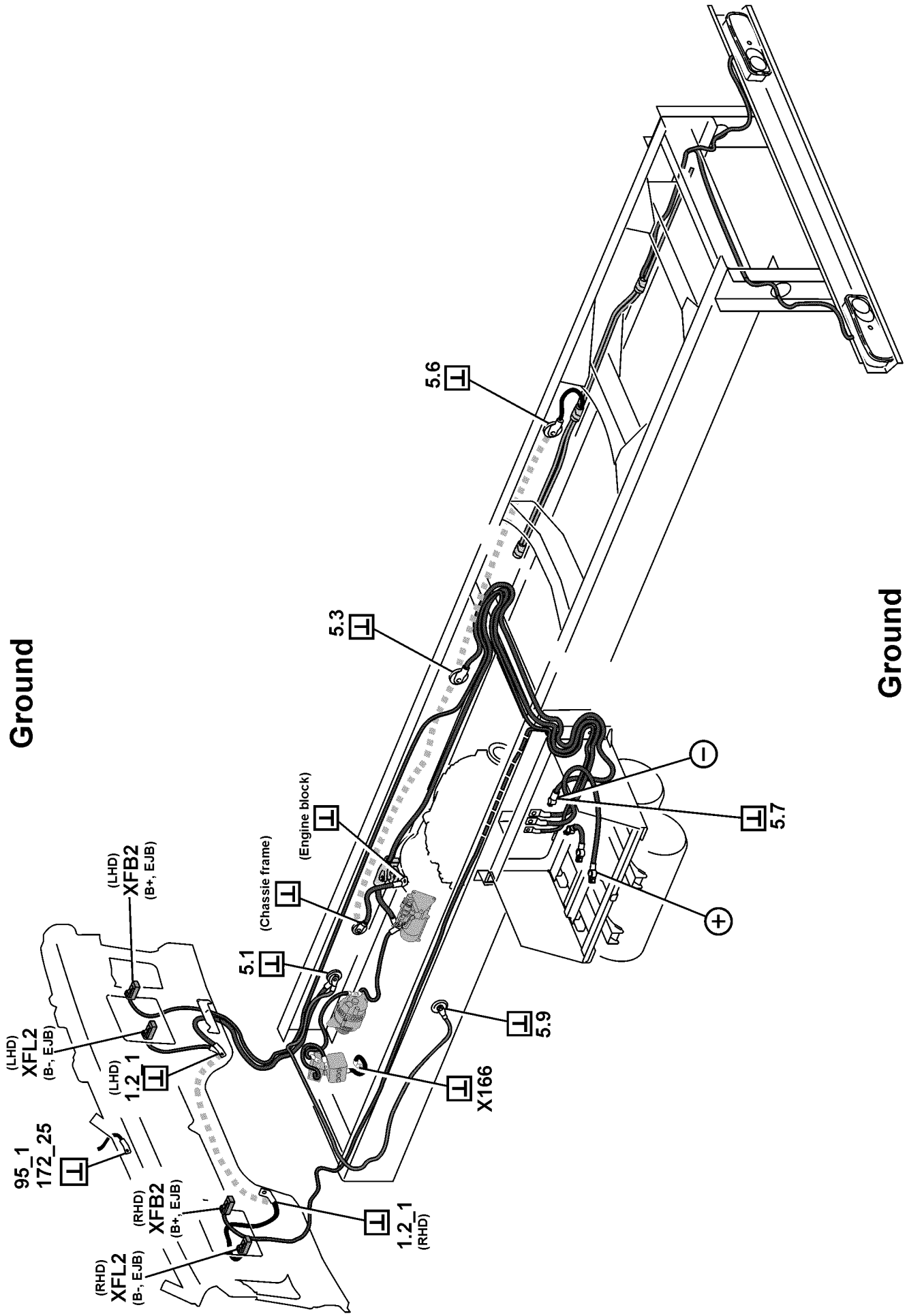
K01	Relay, Engine preheater (Engine)	(AB:1 C / AD:1 C)
K01	Relay, park brake trigger (tiltcab) (pos. 1)	(KA:0 D)
K01_P	Relay, windscreen heater (pos. Junction Box)	(IF1:4 B)
K02	Relay, front fog (pos. 2)	(GB2:0 C)
K02_P	Relay, body builder machine on (pos. Junction Box)	(NB:4 D)
K03	Relay, reverse light (pos. 3)	(GD:1 B)
K03_P	Relay, not used (pos. Junction Box)	(KA:1 B)
K04	Relay, heated adjustable mirror driving (pos. 4)	(IF1:2 B)
K05	Relay, power ECS (pos. 5)	(AL:1 C)
K06	Relay, gearbox (pos. 6)	(DQ1:1 B)
K07	Relay, alternator shutdown (pos. 7)	(AD:4 D)
K08	Relay, horn (pos. 8)	(GQ1:1 C)
K09	Relay, not used (pos. 9)	(GB2: 1 B)
K10	Relay, brake light (pos. 10)	(GD:3 B)
K11	Relay, rear fog light (pos. 11)	(GB2:2 B)
K12	Relay, high beam headlight (pos. 12)	(GB1:3 B)
K13	Relay, interior parking lights (pos. 13)	(GA2:2 A)
K14	Relay, beacon warning (pos. 14)	(GC2:3 B)
K15	Relay, wiper (pos. 15)	(GM:1 C)
K16	Relay, motor headlamp washer pump (pos. 16)	(GM:1 B)
K17	Relay, day running lights (pos. 17)	(GA1:3 B)
K18	Relay, starter control (pos. 18)	(CU32:3 B)
K19	Relay, alternator controlled, engine running (pos. 19)	(AN:2 C)
K21	Relay, rear parking lighting rigid & trailer (pos. 21)	(GA1:2 C)
K22	Relay, parking lights BB connector (pos. 22)	(GA2:4 B)
K23	Relay, main, power tachograph (pos. 23)	(AL:4 B)
K24	Relay, starting switch accessories (pos. 24)	(AG:0 B)
K25	Relay, ignition power supply (pos. 25)	(AJ:0 B)
K26	Relay, ignition power supply (pos. 26)	(AH:0 A)
K27	Relay, ignition power supply (pos. 27)	(AI:0 B)
K28	Relay, accessories, optional (pos. 28)	(AG:2 B)
K29	Relay, power EMS (pos 29)	(AL:3 C)
K50	Relay, horn (pos. Junction Box)	(GQ1:1 B)
K51	Relay, electrical main circuit breaker (pos. Junction Box)	(AA:1 C)
K51B	Relay, manual circuit breaker (pos. Junction Box)	(AA:1 C)
K66_67	Relay, door lock control	(IMV:2 B)

Wiring harness Layout




Cuttelfish, CHASSIS
YCF2
YCF1
XFF1
YFF2
YFF1
XFD4
XFD3
XFD2
XFD1
YFD2
YFD1
CAB POWER
XFB2
Brown
XFB1
YFT1
YFB2
YFB1
XFCR1
XFTP1
XFTP2
YFTP1
YFT1
YFRA1
YFSA1
YFL1
CAB GROUND
XFL2
Grey
XFL1
1160
Firewall
XC315
E97L.A/B
(H01)
XC319
B238
Bumper
1447
1057A
Main
E97L.A/B
E95L
XC323
XC322
E95L
XC301
1030
Engine
1063 Trailer
1040 Front
A13A.A
U11
1499
Gearbox
XC303
XC302
A72
BBOX
FM15
B50
PB3
(EATS)
XC306
XC309
(ADTP-R)
XC307
1435 BBOX
XC324
(FQS)
1057A Main
A63
APM
Y40
(CAB-CRW)
XC312 or XC812
(ADTP-L)
XC308
U03
A57
XC912
(CAB-CRW)
Y32
Y25
B07
A117
1040 Rear
1063
Trailer
X03
X02
E27L
E27R
Cuttelfish, CHASSIS
T3101555

Ground connections



T3084675

List of ground connections

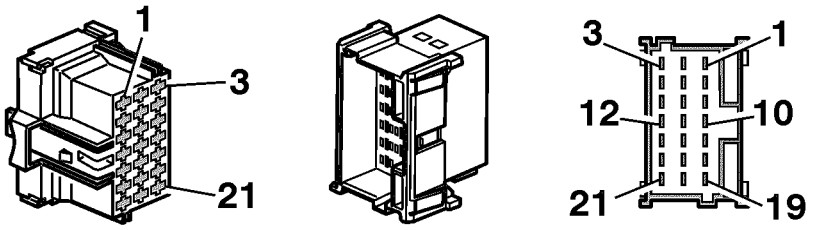
1.2_1	(YA:1 D) (front outside cab ground)	95_1	(IF1:4 D) (cab front under windscreen)
1.2_2	(YA:1 D) (front outside cab ground)	122_1	(GA1:2 D) (EJB)
5.1_1	(YA:1 D) (front right frame ground)	126_1	(GC2:3 E) (EJB)
5.1_2	(YA:4 D) (cab chassis ground)	128_1	(GA2:4 D) (EJB)
5.3_1	(YB:2 E) (2nd central right frame ground)	136_1	(GQ:0 B) (EJB)
5.3_4	(DO:0 E) (Hydraulic pump ground)	151_1	(IN:3 E) (EJB)
5.4_2	(YA:3 D) (2nd central right frame ground)	156_1	(IM:3 E) (EJB)
5.6_1	(YB:3 C) (rear right frame ground)	157_1	(IM:4 E) (EJB)
5.7_1	(YA:0 D) (predisposition)	163_1	(IR:4 E) (EJB)
5.9_1	(YA:4 D) (outside ground)	165_1	(IR:1 C) (EJB)
5.9_2	(YA:4 D) (outside ground)	172_25	(IF1:4 B) (cab front under windscreen)
1_2499	(GD:2 E) (EJB)	176_1	(IA:2 E) (EJB)
3_2499	(GD:3 C) (EJB)	178_25	(NE:1 D) (predisposition)
3_699	(AD: 3 E) (EJB)	184_25	(HY:3 C) (EJB)
4_213	(AB: 1E)&(AD:1 D) (engine ground)	187_1	(GH1:4 C) (EJB)
21_1	(AJ:0 B) (EJB)	187_25	(NE:2 D) (predisposition)
25_1	(BA:1 D) (EJB)	191_3	(IR:0 B) (EJB)
39_1	(AG:2 B) (EJB)	196_1	(EM1:3 B) (EJB)
40_1	(AG:0 B) (EJB)	196_6	(GH1:0 E) (EJB)
41_1	(AH:0 B) (EJB)	203_5	(DU:1 C) (EJB)
42_1	(AI:0 B) (EJB)	203_25	(DU:2 C) (EJB)
64_1	(GM:3 E) (EJB)	205_292	(BA1:2 B) (EJB)
82_1	(GA2:2 B) (EJB)	205_297	(AA:2 E) (EJB)
84_1	(GB1:3 C) (EJB)	205_700	(BK:3 D) (EJB)
85_1	(GB2:0 C) (EJB)	206_238	(IM:0 B) (EJB)
86_1	(GB2:2 C) (EJB)	206_1167	(GC2:4 C) (EJB)
87_1	(IA:3 D) (EJB)	206_4	(IR:4 B) (EJB)

207_3	(NE:3 D) (predisposition)
207_183	(GQ:3 C) (EJB)
207_23	(FC:3 E) (EJB)
208_3	(NE:3 D) (predisposition)
209_69	(NE:2 D) (predisposition)
209_253	(BA1:3 B) (EJB)
210_1	(KA:1 D) (EJB)
210_13	(AC:1 E) (EJB)
210_69	(NE:2 D) (predisposition)
211_6	(DQ1:1 C) (EJB)
212_6	(DQ1:2 B) (EJB)
213_70	(GC2:3 C) (EJB)
213_76	(GC2:2 C) (EJB)
214_69	(DQ:4 E) (EJB)
217_25	(FA:3 D) (EJB)
217_85	(DU:1 E) (EJB)
221_39	(IM:2 C) (EJB)
223_25	(GQ:0 B) (EJB)
223_675	(BA:2 C) (EJB)
224_677	(YB:0 D) (EJB)
224_689	(GF1:1 D) (EJB)
225_62	(IR:4 B) (EJB)
225_105	(NA:2 D) (predisposition)
226_6	(GM:1 C) (EJB)
226_105	(NA:4 B) (EJB)
226_699	(DQ1:4 C) (EJB)
227_4	(GQ1:1 C) (EJB)
227_105	(NA:1 B) (EJB)
228_4	(BK:4 D) (EJB)
228_105	(NA:2 D) (predisposition)
228_700	(IF1:4 E) (EJB)
229_105	(NA:1 C) (predisposition)
229_700	(IF1:3 E) (EJB)
229_1022	(AC:2 C) (EJB)
230_105	(NA:0 D) (predisposition)
230_1011	(YB:1 D) (EJB)
231_4	(BK:2 E) (EJB)
231_105	(NB:2 D) (predisposition)
231_1011	(YB:2 D) (EJB)
232_105	(NB:4 C) (EJB)
232_637	(YA:0 D) (EJB)
_105	(NB:1 D) (predisposition)
233_475	(BA:0 E) (EJB)
234_8	(BM:2 C) (EJB)
235_25	(IU:3 D) (EJB)
236_414	(IN:2 C) (EJB)
236_417	(IN:1 D) (EJB)
237_414	(IN:2 C) (EJB)
238_6	(GH1:3 D) (EJB)
238_105	(ND:2 B) (EJB)
239_105	(ND:1 B) (EJB)
239_149	(BM:1 C) (EJB)
239_994	(DO:0 B) (EJB)
243_25	(EM2:3 B) (EJB)
244_291	(FA1:2 A) (EJB)
245_291	(FA1:2 A) (EJB)

245_370	(GH1:3 D) (EJB)
246_278	(EM2:4 E) (EJB)
246_291	(FA1:4 D) (EJB)
246_370	(IA:0 E) (EJB)
247_6	(GM:3 C) (EJB)
248	(GA2:4 B) (EJB)
253_356	(CU32:4 D) (EJB)
255_23	(EM2:4 B) (EJB)
256_23	(HY:2 C) (EJB)
258_26	(CM:0 D) (EJB)
262	(AN2 C) (EJB)
264_8	(BK:1 E) (EJB)
264_32	(CA:A 0) (EJB)
265_25	(KA:3 D) (EJB)
265_32	(FA:2 A) (EJB)
291_542	(IR1:3 B) (EJB)
296_57	(DO:0 C) (EJB)
321_1817	(DO:4 B) (EJB)
FMS_PK	(BT:0 C) (EJB)

List of connectors

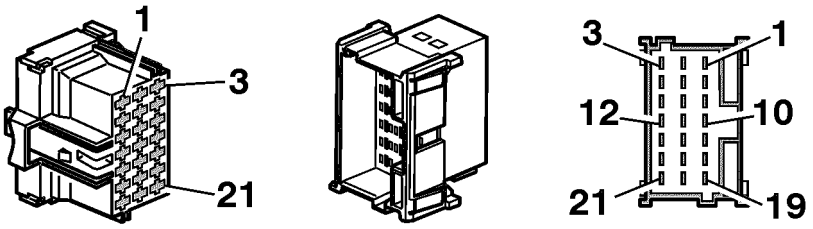
ICBB1



T3019799

Pin no:	Circuit function	Wiring no:	Diagram
1	PTO 3 request	8112	NE:3 C
2	PTO 2 request	8113	NE:2 C
3	Engine start	8100	NE:0 C
4	PTO 3 feedback	158	NE:3 C
5	PTO 2 feedback	8134	NE:2 C
6	Engine start allowed	8108	NE:0 C
7	PTO 3 valve	8115	NE:4 C
8	PTO 2 valve	8161	NE:3 C
9	Engine warning / faults or other function	8104	NE:0 C
10	PWM programmable output	8170	NE:1 C
11	Free output 1	8122	NE:1 C
12	Free output 2	8123	NE:1 C
13	Enable REPTO/EXTRA pulley torque	8135	NE:4 C
14	Input free (-) for logical function	8132	NE:1 C
15	Input free (-) for logical function	8131	NE:1 C
16	Engine speed control PWM signal	0384	NE:3 C
17	Enable PWM input control	8136	NE:4 C
18	Enable CAN control	8133	NE:4 C
20	Can low for body builder	0413	NE:2 C
21	Can high for body builder	0414	NE:2 C

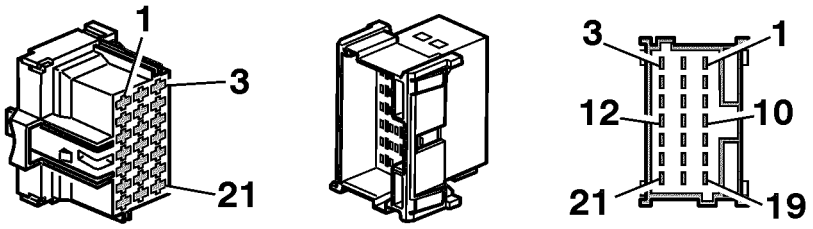
ICBB2



T3019799

Pin no:	Circuit function	Wiring no:	Diagram
1	Vehicle speed trigger output	1025	NA:0 C
2	Switch engine speed 1	1026	NA:1 C
3	Switch engine speed 2	1141	NA:1 C
4	Engine speed control decrease	8119	NA:2 C
5	Engine speed control increase	8120	NA:2 C
6	Return to normal speed	8121	NA:2 C
7	Engine speed control request form chassis	8067	NA:2 C
8	Engine stop request from chassis	8110	NA:4 C
9	Engine warning / faults or other function	8104	NE:0 C
10	Machine working position	651	NB:3 C
11	Bodybuilder predisposition switch	0460	NB:0 C
12	Bodybuilder predisposition switch	0461	NB:0 C
13	RSL 3 (speed limit)	8095	NB:1 C
14	Emergency switch	5074	NB:1 C
15	RSL 2 (speed limit)	8020	NB:1 C
16	Inhibit vehicle immobilization	8227	NB:2 C
17	Chassis / equipement	8116	NB:2 C
18	PTO 1 valve	8093	NA:4 C
19	Chassis lighting or valve lighting	618	NB:3 C
20	Engine speed “W” alternator termination	7	NA:3 C

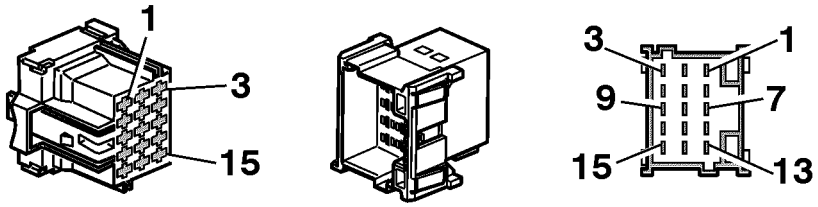
ICH1



T3019799

Pin no:	Circuit function	Wiring no:	Diagram
1	Panic alarm activation	2318	IN:2 B
2	Radio left loudspeaker (-)	444 / 448	IU1:2 B
3	Radio left loudspeaker (+)	447 / 451	IU1:2 B
4	BUS J1939 CAN 2 (+)	0411	XC:2 B
5	Radio left loudspeaker (+)	447 / 451	IU1:3 B
6	BUS J1939 CAN 2 (+)	0411	XC:2 B
7	BUS J1939 CAN 2 (-)	0412	XC:2 B
8	Radio left loudspeaker (-)	444 / 448	IU1:3 B
9	BUS J1939 CAN 2 (-)	0412	XC:3 B
10	Micro ground	20	IU1:2 B
11	Micro power supply	11	IU1:2 B
13	Passenger door lock/unlock motor ctrl	4313	IMV:2 C
14	Passenger door lock/unlock motor ctrl	4314	IMV:1 C

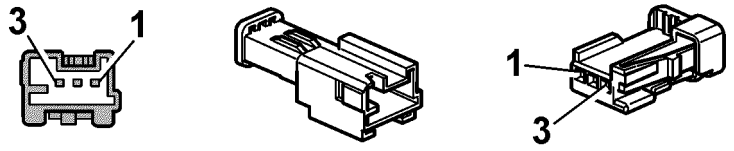
ICR1



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
6	Power supply kl. 15	2325	AJ:4 D
7	Power supply kl. 30	2225	DQ1:3 A
8	Dashboard illumination power supply	64	DQ1:4 A
9	J1939 CAN-1 bus high	0012	XB:2 A
10	J1939 CAN-1 bus low	0013	XB:2 A
11	Range redundancy	5109	DQ1:4 B
12	Ground	1	DQ1:4 C

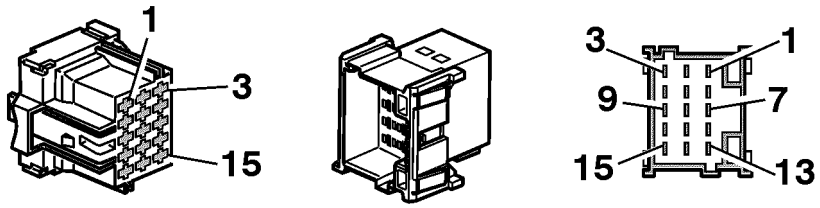
ICR2



T3071135

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH1:3 B
2	Ground	1	GH1:3 C

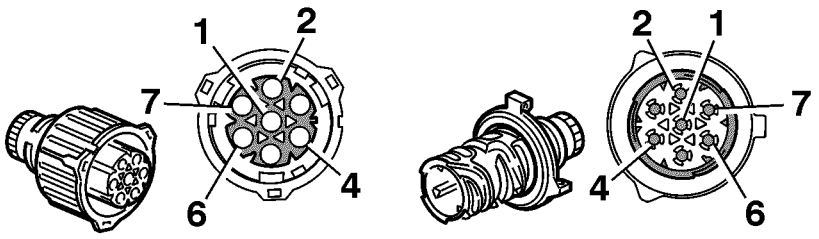
ICR81



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
1	Accessories Pw Supply	456	IQV:1 B
2	Ground	1	IQV:1 B
3	Dashboard & driver control illumination power supply	64	IQV:2 D
4	Accessories Pw Supply	456	IQV:2 B
5	Ground	1	IQV:3 B
6	Power supply kl. 30	45	GH3V:3 B
7	Rear interior lighting (4 doors cab) control	1021	GH3V:4 D
8	Rear door switch control	1020	GH3V:2 C
9	Rear door lock/unlock motor ctrl	4311	GH3V:2 C
10	Rear door lock/unlock motor ctrl	4312	IMV:3 C

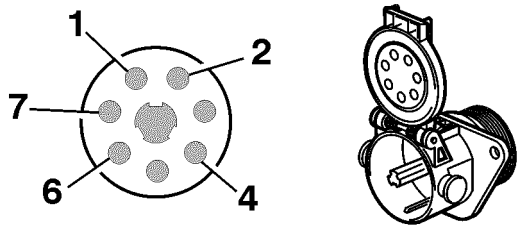
PB3



T3020295

Pin no:	Circuit function	Wiring no:	Diagram
1	Coded line alarm trailer connection freight	0403	NC:2 C
2	Power supply kl. 30	208	NC:2 C
3	Rear left marker	667	NC:2 C
4	Ground	1	NC:1 C
5	Rear right marker	668	NC:2 C
6	Power supply kl. 15	275	NC:2 C
7	Ground	1	NC:2 C

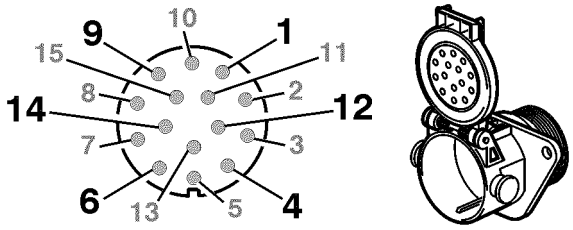
X02



T3019932

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	522	GF:0 B
2	Power supply kl. 15	211	GF:0 B
3	Ground	1	GF:0 B
4	Ground	1	GF:0 B
5	ABS trailer state	352	GF:0 B
6	Trailer CAN bus: H line	0045	GF:0 B
7	Trailer CAN bus: L line	0046	GF:0 B

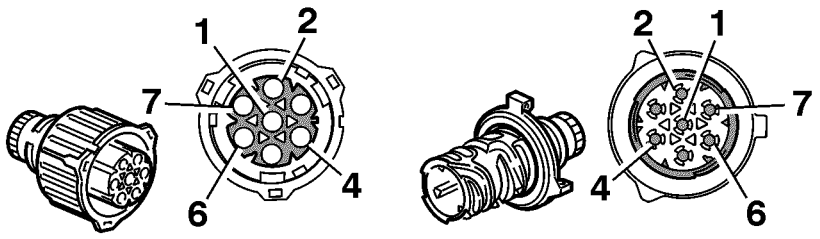
X03



T3019933

Pin no:	Circuit function	Wiring no:	Diagram
1	Trailer turn left indicator	39	GF:3 C
2	Trailer turn right indicator	30	GF:3 C
3	Rear fog lights power supply	308	GF:3 C
4	Ground	1	GF:3 C
5	Rear left marker	632	GF:3 C
6	Rear right marker	634	GF:3 C
7	Brake lights power supply	3	GF:3 C
8	Reverse lights ON-OFF, and power supply	608	GF:3 C
9	Power supply kl.15	606	GF:3 C
13	Coded line alarm trailer connection freight	0403	GF:3 C
14	Chassis lighting or valve lighting	618	GF:3 C

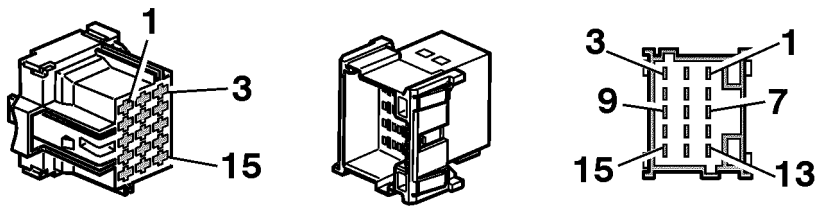
X62



T3020295

Pin no:	Circuit function	Wiring no:	Diagram
1	Bodybuilder predisposition switch	0461	NC:3 C
3	Chassis/equipment	8116	NC:3 C
7	Bodybuilder predisposition switch	0460	NC:3 C

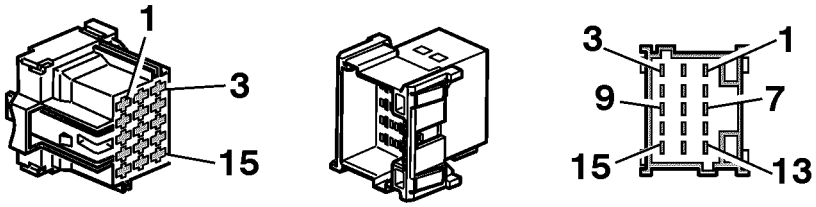
XACD61



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH1:2 B
2	Ground	1	IF1:4 D
3	Adjustable mirror motors control	432	IF1:1 D / IF2:2 B
4	Passenger window lift control	470	IQ:2 C
5	Heated mirror power supply. Windscreen heater relay control	4	IF1:2 B / /IF2:2 C
6	Heated mirror request	386	IF1:0 C
8	Power supply kl. 15	215	IF1:0 B
9	Front door switch control / instep lights control	119 / 4322	GH1:2 C
11	Adjustable mirror motor control	428	IF1:2 C / IF2:3 C
12	Dashboard illumination power supply	64	IF1:1 B
13	Power supply kl. 15	2232	IQ:3 B
14	Adjustable mirror motor control	430	IF1:1 D / IF2:2 C
15	Passenger window lift control	469	IQ:2 C

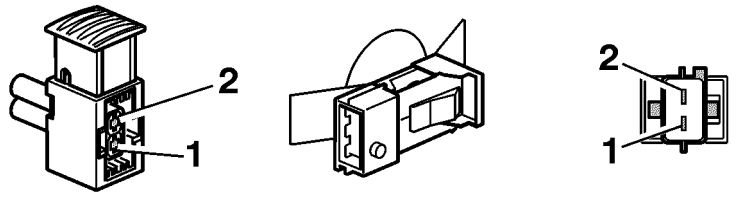
XACD62



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH1:2 B
2	Ground	1	IF1:3 E
3	Adjustable mirror motors control	432	IF1:2 D / IF2:2 B
4	Passenger window lift control	470	IQ:2 C
5	Heated mirror power supply. Windscreen heater relay control	4	IF1:2 D / IF2:2 B
7	Outside temperature sensor (-)	710	BK:0 E
8	Outside temperature sensor (+)	709	BK:1 D
9	Front door switch control / instep lights control	119 / 4322	GH1:2 C
11	Adjustable mirror motor control	428	IF1:2 D / IF2:3 C
12	Dashboard illumination power supply	64	IF1:1 B
14	Adjustable mirror motor control	430	IF1:1 D / IF2:2 C
15	Passenger window lift control	469	IQ:2 C

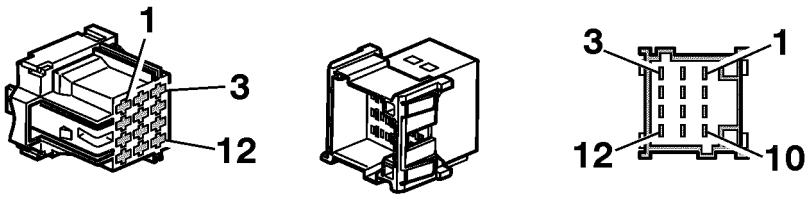
XACR15



T3019920

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	IR:4 C
2	Power supply kl. 30	2302	IR:4 D

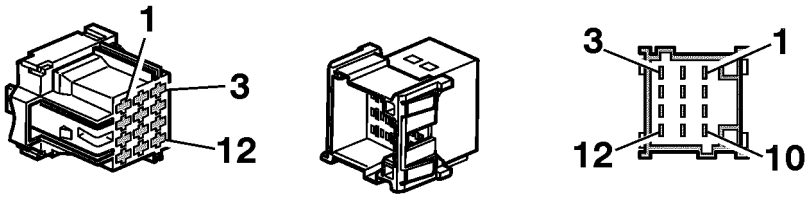
XADH01



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	Driver door lock / unlock motor control	4316	IM:1 D
5	Driver door lock / unlock motor control	4317	IM:1 D
9	Driver door unlock indication	4318	IM:1 D

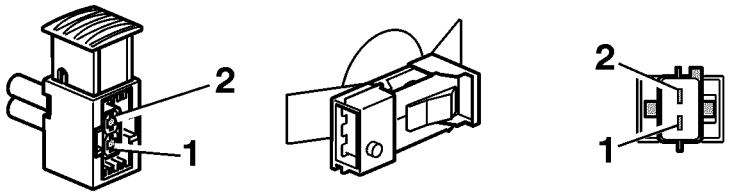
XADH02



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	Passenger door lock / unlock motor control	4313	IM:2 D
5	Passenger door lock / unlock motor control	4314	IM:2 D
9	Passenger door unlock indication	4315	IM:2 D

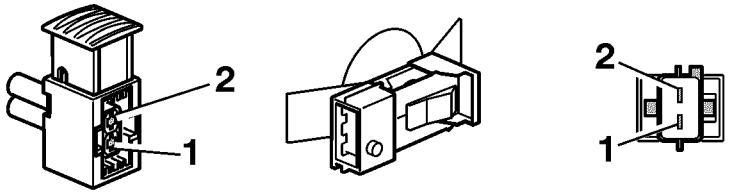
XAHH1



T3019920

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	GC2:3 E
2	Beacon warnings lamps power supply	323	GC2:3 D

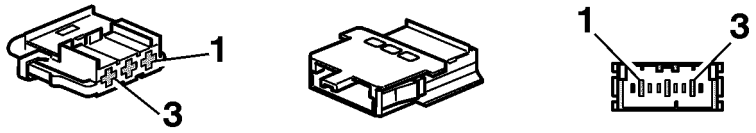
XAHH2



T3019920

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	GC2:4 E
2	Beacon warnings lamps power supply	323	GC2:4 C

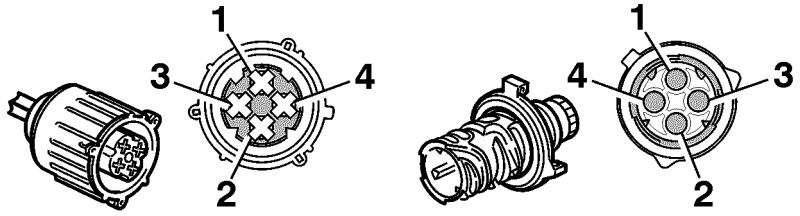
XAHH4



T3019921

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH3V:0 A
2	Rear interior lighting (4 doors cab) control	1021	GH3V:1 C
3	Beacon warnings lamps power supply	1	GH3V:0 D

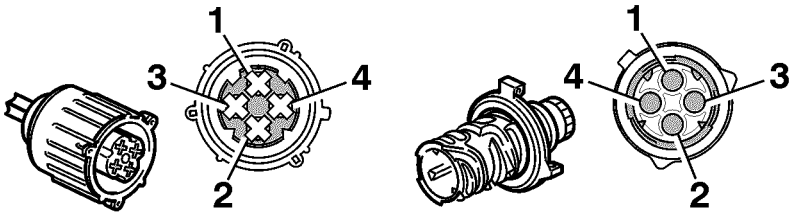
XAHR1



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Beacon warnings lamps power supply	323	GC2:3 D
2	Beacon warnings lamps power supply	323	GC2:4 C
3	Ground	1	GC2:3 E
4	Ground	1	GC2:3 E

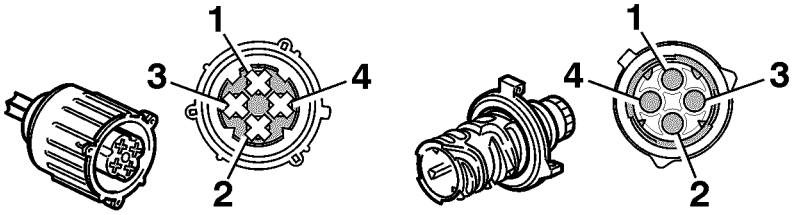
XAHR3



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Beacon warnings lamps power supply	323	GC2:3 D
2	Ground	1	GC2:3 E

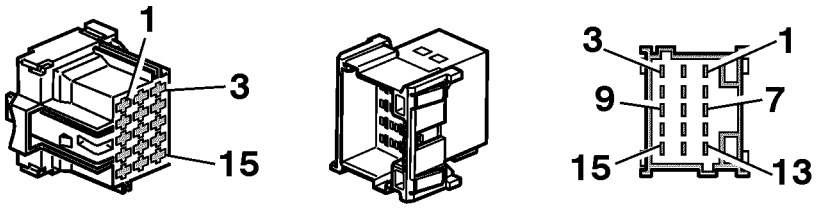
XAHR4



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Beacon warnings lamps power supply	323	GC2:4 D
2	Ground	1	GC2:4 D

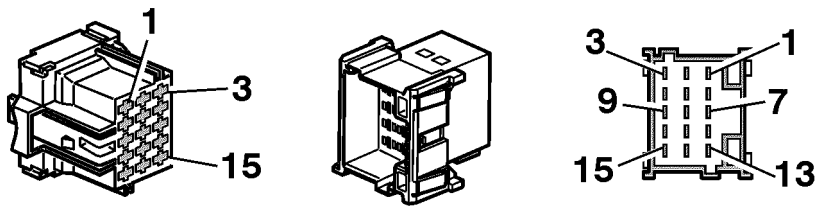
XARD01



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH3V:4 B
2	Rear interior lighting (4 doors cab) control	1021	GH3V:4 C
3	Ground	1	IQV:3 B
4	Accessories Pw Supply	456	IQV:2 B
5	Dashboard & driver control illumination power supply	64	IQV:3 D
6	Rear door lock/unlock Motor ctrl	4311	IMV:1 D
7	Rear door lock/unlock Motor ctrl	4311	IMV:2 D

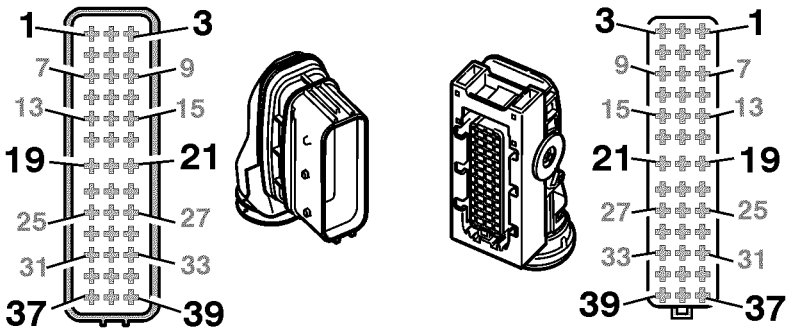
XARD02



T3019800

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH3V:3 B
2	Rear interior lighting (4 doors cab) control	1021	GH3V:3 C
3	Ground	1	IQV:1 B
4	Accessories Pw Supply	456	IQV:1 B
5	Dashboard & driver control illumination power supply	64	IQV:1 D
6	Rear door lock/unlock Motor ctrl	4311	IMV:1 D
7	Rear door lock/unlock Motor ctrl	4311	IMV:2 D

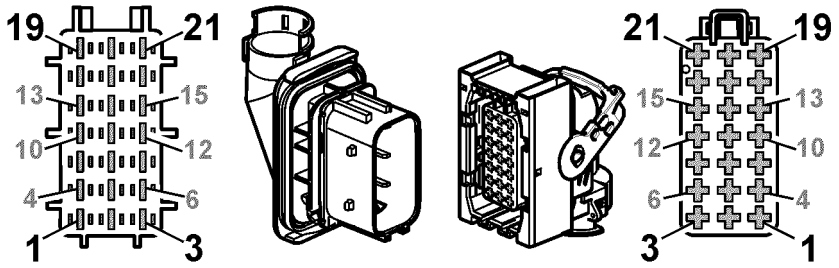
XC301



T3019924

Pin no:	Circuit function	Wiring no:	Diagram
1	Neutral gear box information	12	CA:2 D
2	Backbone 2 bus high	0033	CA:3 D
3	PWT subnet high for Volvo AMT-D	0040	CA:1 D
4	J1939 CAN-1 bus low	0013	CA:2 D
5	Backbone 2 bus low	0034	CA:3 D
6	PWT subnet low for Volvo AMT-D	0041	CA:1 D
8	Idle validation switch	5072	CA:3 D
9	Alternator engine running / generating current	25	AD:2 C
10	ADR alternator relay control	2226	AD:2 C
11	Engine speed “W” alternator termination	7	AD:2 C
13	Power supply after relay K29	291	CA:2 D
15	Power supply after relay K29	291	CA:2 D
18	Engine water level	81	CA:4 D
19	Air filter restriction	720	CA:0 D
20	Engine water level signal	0151	CA:4 D
21	Power supply after relay K29	292	CA:1 D
23	Climate compressor power supply	462	HY:3 D
24	Climate compressor power supply	462	HY:3 D
25	Power supply kl. 30	299	CA: 3 D
27	Ground	1	CA:0 D
28	Engine coolant level	82	CA:4 D
31	Ground	1	CA:0 D
32	Air valve unit command	0861	CA:0 D
33	Cooling fan power supply	2292	CA:1 D
34	Engine subnet high (Euro6)	0050	CA:4 D
36	Engine subnet low (Euro6)	0051	CA:4 D
38	Not used	-	CA:0 D
39	Ground	1	CA:0 D

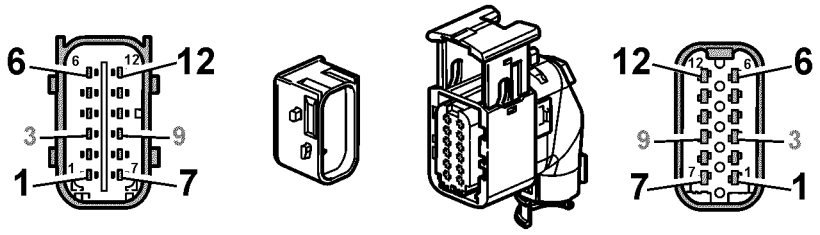
XC302



T3071130

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	YB:1 C
2	Speed signal real time	141	BM:1 D
3	Tachograph speed sensor supply	142	BM:1 D
4	Ground	825	BM:1 D
5	Tachograph data signal	0056	BM:1 D
6	Power supply after relay K23	2323	CA:1 B
7	Ground	1	CA:0 B
8	Air valve unit command	0861	CA:0 C
10	PTO 1 feedback speed 1	88	DQ:1 B
11	PTO 2 feedback	8134	DQ:2 B
12	Neutral gearbox information	12	BA:3 B
13	Manual gearbox reverse gear switch	661	GD:1 B

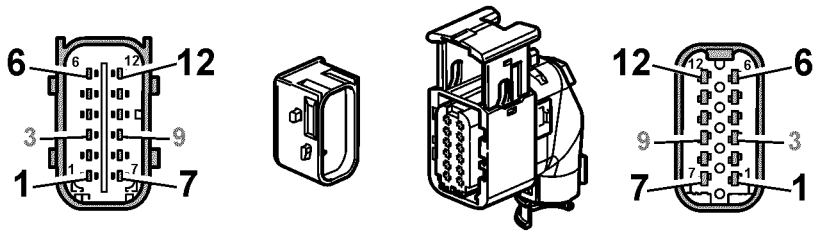
XC303



T3084562

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	2121	YB:1 C
2	Speed signal real time	141	BM:2 D
3	Tachograph speed sensor supply	142	BM:2 D
4	Ground	825	BM:2 D
5	Tachograph data signal	0056	BM:2 D
6	Power supply after relay K23	2323	CA:0 B
7	Ground	1	CA:0 B
8	Air valve unit command	0861	CA:1 C
10	PTO 1 feedback speed 1	88	DQ:1 B
11	Power supply kl. 15	2121	DQ:0 B
12	PTO 1 valve	8093	DQ:0 D

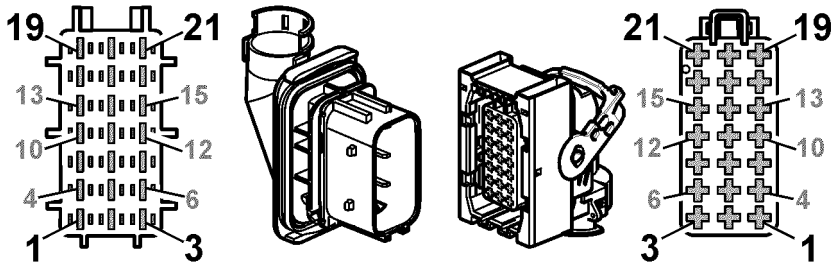
XC304



T3084562

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	YB:1 C
2	Speed signal real time	141	BM:2 D
3	Tachograph speed sensor supply	142	BM:2 D
4	Ground	825	BM:2 D
5	Tachograph data signal	0056	BM:2 D
6	Power supply after relay K23	2323	CA:1 B
7	Ground	1	CA:0 B
8	Air valve unit command	0861	CA:1 C
10	PTO 1 feedback speed 1	88	DQ:1 B
11	Power supply kl. 15	2121	DQ:0 B
11	PTO 2 feeback	8134	DQ:3 B
12	PTO 1 valve	8093	DQ:0 B

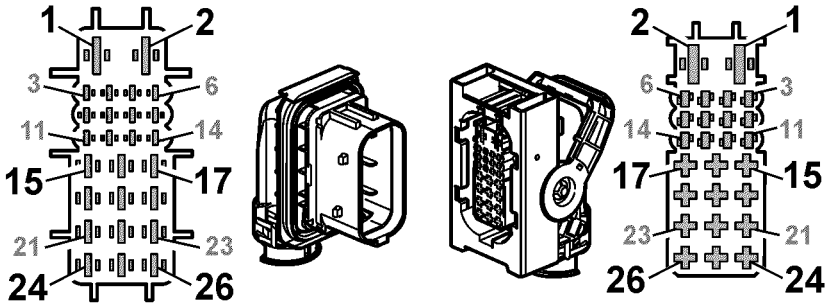
XC306



T3071130

Pin no:	Circuit function	Wiring no:	Diagram
1	ACM ground actuator	1172	CM:2 D
2	CAT downstream temp sensor	0858	CM:1 D
3	CAT upstream temp sensor	0859	CM:1 D
4	DPF temperature sensor	0464	CM:1 D
5	DPF pressure sensors PW supply	2294	CM:1 D
6	DPF pressure sensor	0465	CM:1 D
7	Engine subnet high (Euro6)	0050	CM:3 D
8	Engine sbnet low (Euro6)	0051	CM:3 D
9	ACM external ground	0873	CM:2 D
10	Engine subnet high (Euro6)	0050	CM:4 D
11	Engine sbnet low (Euro6)	0051	CM:3 D
19	NOX sensors power supply	2297	CM:3 D
20	Ground	1	CM:0 D
21	NOX sensors power supply	2297	CM:3 D

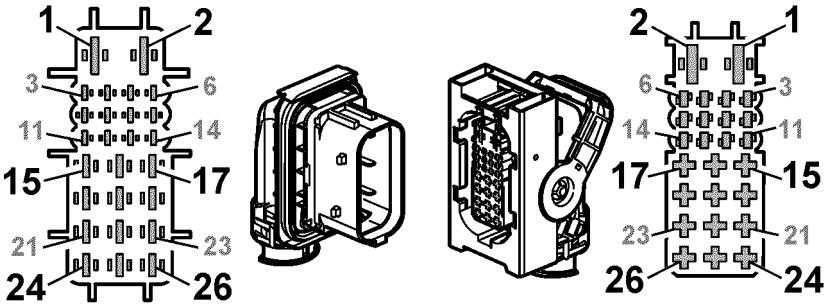
XC307



T3071132

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	CM:0 C
2	ACM power supply, direct battery / Main (ADR)	2235	CM:0 B
3	ACM ground actuator	1172	CM:2 C
4	CAT downstream temp sensor	0858	CM:1 C
5	CAT upstream temp sensor	0859	CM:1 C
6	DPF temperature sensor	0464	CM:1 C
7	DPF pressure sensors PW supply	2294	CM:1 C
8	DPF pressure sensor	0465	CM:1 C
9	Engine subnet high (Euro6)	0050	CM:1 B
10	Engine subnet low (Euro6)	0051	CM:1 B
11	ACM external ground	0873	CM:2 C
12	PW supply after VECU PW relays	2987	CM:0 B
13	Backbone 2 bus high	0033	CM:2 B
14	Backbone 2 bus low	0034	CM:2 B
15	J1939 CAN-1 Bus high	0012	CM:1 B
16	J1939 CAN-1 Bus low	0013	CM:1 B
17	Ground	1	CM:0 C
18	NOX sensors power supply	2297	CM:2 B

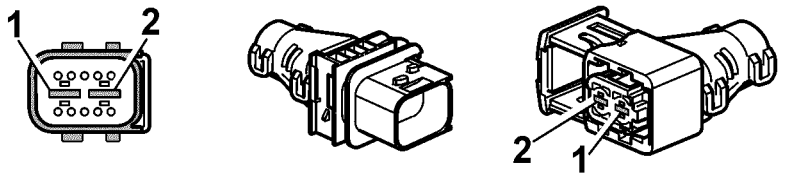
XC308



T3071132

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	CM:0 C
2	ACM power supply, direct battery / Main (ADR)	2235	CM:0 B
3	ACM ground actuator	1172	CM:2 C
4	CAT downstream temp sensor	0858	CM:1 C
5	CAT upstream temp sensor	0859	CM:1 C
6	DPF temperature sensor	0464	CM:1 C
7	DPF pressure sensors PW supply	2294	CM:1 C
8	DPF pressure sensor	0465	CM:1 C
9	Engine subnet high (Euro6)	0050	CM:1 B
10	Engine subnet low (Euro6)	0051	CM:1 B
11	ACM external ground	0873	CM:2 C
12	PW supply after VECU PW relays	2987	CM:0 B
13	Backbone 2 bus high	0033	CM:2 B
14	Backbone 2 bus low	0034	CM:2 B
15	J1939 CAN-1 Bus high	0012	CM:1 B
16	J1939 CAN-1 Bus low	0013	CM:1 B
17	Ground	1	CM:0 C
18	NOX sensors power supply	2297	CM:2 B

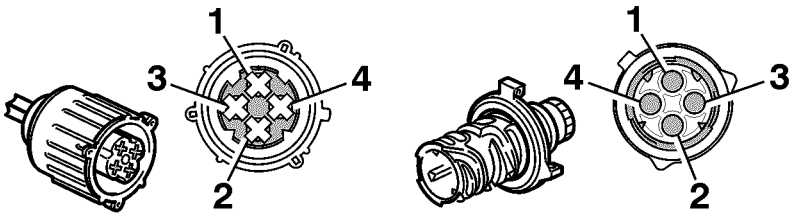
XC309



T3071143

Pin no:	Circuit function	Wiring no:	Diagram
1	ACM power supply. direct battery / Main (ADR)	2235	CM:0 A

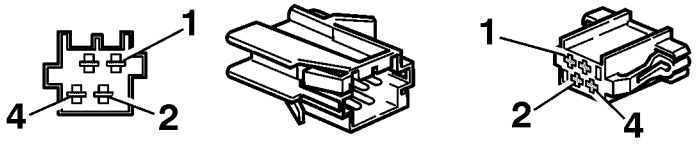
XC312



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Front parking lights left side	392	GC4:1 B
2	Ground	1	GC4:1 E
3	Front parking lights right side	391	GC4:3 B
4	Ground	1	GC4:4 E

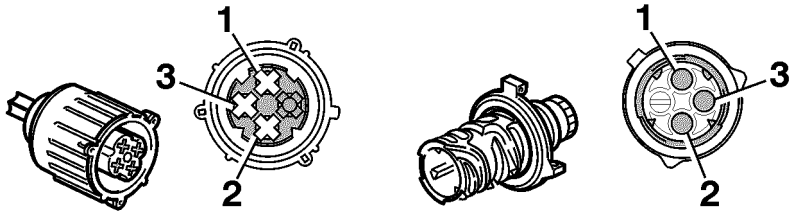
XC315



T3019923

Pin no:	Circuit function	Wiring no:	Diagram
1	Windscreen washer pump supply and head lamp washer pump request	506	GM4:0 D
2	Ground	1	GM4:0 E
3	Power Supply headlamp washer pump	5094	GM4:0 D
4	Windscreen washer pump supply and head lamp washer pump request	506	GM4:0 D

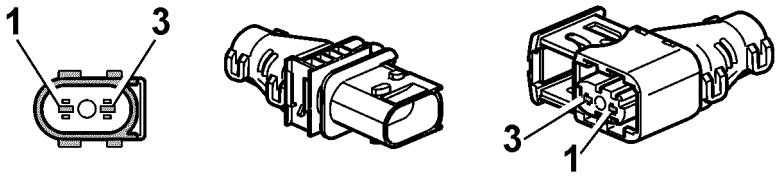
XC320



T3019925

Pin no:	Circuit function	Wiring no:	Diagram
1	Fuel level sensor (-)	718	BK:0 D
2	Fuel level sensor (+)	76	BK:0 D
3	Ground	1	BK:0 D

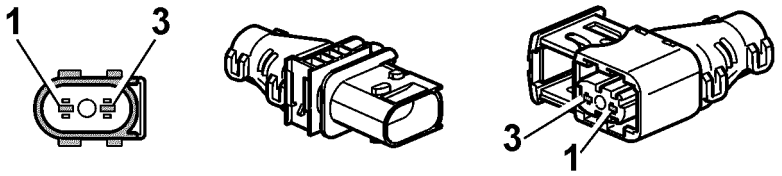
XC322



T3071119

Pin no:	Circuit function	Wiring no:	Diagram
1	Front fog light ON-OFF	63	GC5:3 B
3	Ground	1	GC5:3 C

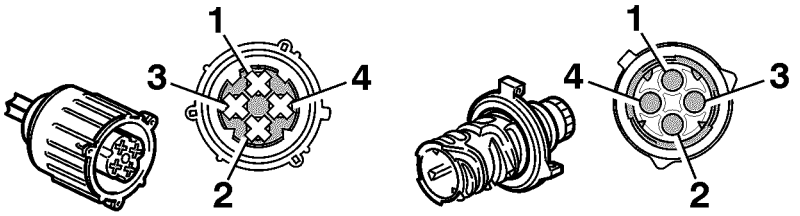
XC323



T3071119

Pin no:	Circuit function	Wiring no:	Diagram
1	Front fog light power supply	60	GC5:3 B
3	Ground	1	GC5:3 C

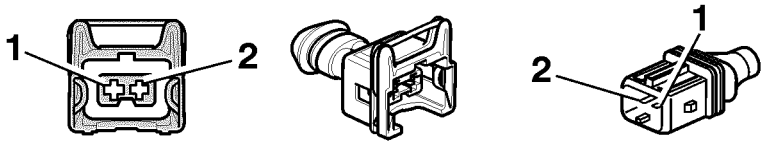
XC324



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Fuel quality sensor	0877	CK:4 C
2	Ground	1	CK:4 D
3	NOX sensors power supply	2297	CK:4 C

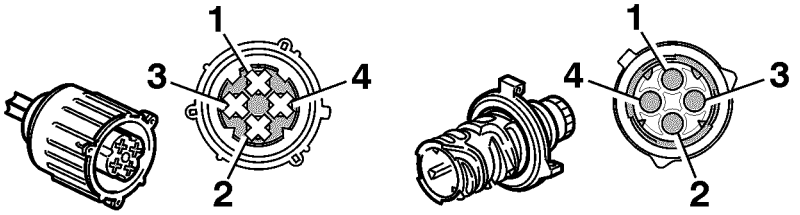
XC325



T3019926

Pin no:	Circuit function	Wiring no:	Diagram
1	Engine water level	81	CA:4 B
2	Engine water level signal	0151	CA:4 B

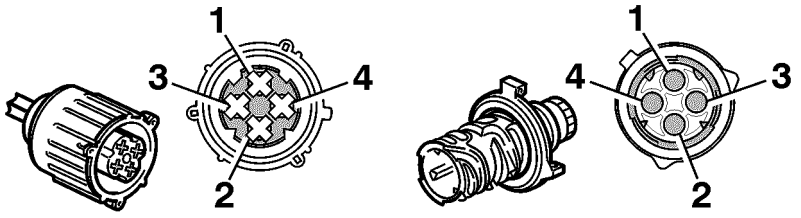
XC812



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Front parking lights right side	392	GC4:1 B
2	Ground	1	GC4:1 E
3	Front parking lights left side	391	GC4:3 B
4	Ground	1	GC4:3 E

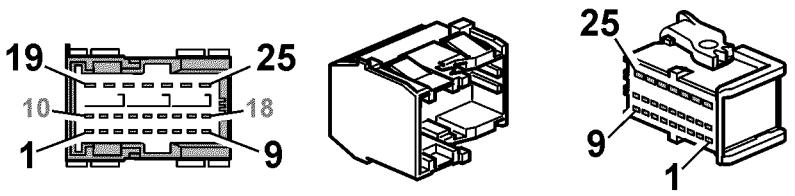
XC912



T3019922

Pin no:	Circuit function	Wiring no:	Diagram
1	Front parking lights right side	392	GC4:1 B
2	Ground	1	GC4:1 E
3	Front parking lights left side	391	GC4:3 B
4	Ground	1	GC4:3 E

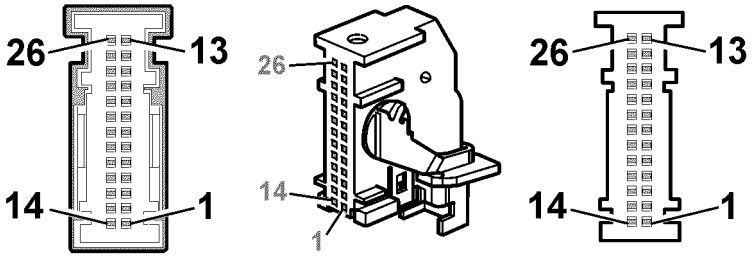
XCBB1



T3071131

Pin no:	Circuit function	Wiring no:	Diagram
1	Neutral gear box information	12	NA:3 C
2	Tachograph speed pulse to body builder	5108	NA:4 C
3	Parking brake engaged	8118	NA:3 C
5	Machine on	8083	NB:3 C
6	Air suspension inhibit regulation	8137	NB:0 C
7	Body builder level chassis control	8138	NB_1 C
8	PTO 1 request on chassis	1140	NA:1 C
9	PTO 1 ON information	8169	NA:0 C
10	Reverse lights ON-OFF, and power supply	608	NA:0 C
11	Reverse lights ON-OFF, and power supply	608	GD:2 D
12	Power supply (alternator information, engine running)	4306	NA:2 C
14	Ground	1	NB:4 C
15	Auxiliary pump feedback	89	NB:2 C
17	Power supply kl. 30	2120	NB:4 A
18	Dashboard illumination power supply	64	NB:4 A
19	Ground	1	NA:4 C
20	Ground	1	NA:1 C
23	Power supply kl. 30	208	NA:1 C
25	Power supply kl. 15	2234	NA:3 C

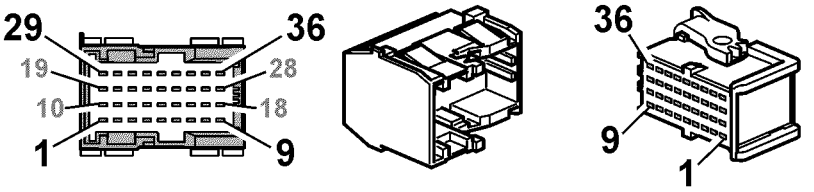
XCBB2



T3084563

Pin no:	Circuit function	Wiring no:	Diagram
1	J1939 CAN-1 bus high	0012	XB:1 D
3	Low range transfer box control	8125	IO:1 B
4	PTO 2 request	8113	ND:2 C
5	PTO 2 feedback	8134	ND:2 C
6	PTO 3 request	8112	ND:3 C
7	PTO 3 valve	8115	ND:3 C
8	High range gear TB control	8114	IO:1 B
11	PTO 2 valve control	8161	ND:2 C
12	PTO 3 feedback	158	ND:3 C
13	Feed back low range TB	156	IO:3 B
14	J1939 CAN-1 bus low	0013	XB:1 D
16	Bus J1587–1 diagnostic line (B-)	0011	ND:1 C
17	Bus J1587–1 diagnostic line (A+)	0010	ND:1 C
19	Neutral TB request	8172	IO:2 B
20	Low range transfer box request	8124	IO:2 B
21	Ground	1	ND:3 C
22	Ground	1	ND:1 C
26	Power supply kl. 15	2125	IO:1 B

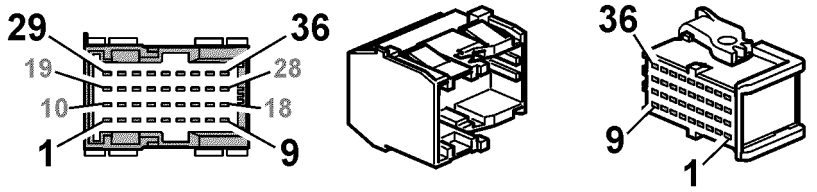
XCH1



T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Bus J1587–1 diagnostic line (B-)	0011	XA:0 B
2	Unlock door request	484	IM:1 B
3	Lock door request	436	IM:1 B
4	Ground	1	IM:3 D
6	Power supply kl. 15	24	IM:1 B
7	Power supply kl. 15	24	IN:1 B
10	Door switch sig.	1159	GH3V:1 A
11	Bus J1587–1 diagnostic Line (B-)	0010	XA:0 B
13	Ground	1	IN:1 D
14	Ground	1	IN:2 B
15	Ground	1	IN:2 B
16	Trailer turn left indicator	39	IN:3 C
17	Dashboard illumination power supply	64	IN:2 A
18	Beacon warning lamps control	322	GC2:3 B
19	Door sensor signal	1159	GH1:1 C
20	Ground	1	GA2:4 D
21	Ground	1	GH1:3 D
22	Ground	1	GH3V:0 D
24	Dashboard illumination power supply	64	GD:2 C
25	Dashboard illumination power supply	64	GA2:2 E
27	Alarm PW supply	262	IN:1 B
28	Coded line alarm trailer connection freight	0403	IN:2 D
29	Indicator signal to LCM	0375	IM:2 B
30	Ground	1	GC2:3 E
31	Dashboard illumination power supply	64	GC2:4 A
32	Power supply kl. 15	4309	AG:2 D
33	Cab heater control	476	IN:1 B
34	Direct battery	2328	AE:3 D / AF:3 D
35	Alarm siren power supply	2303	IN:3 C
36	GC2:3 C	323	GC2:3 C

XCH2

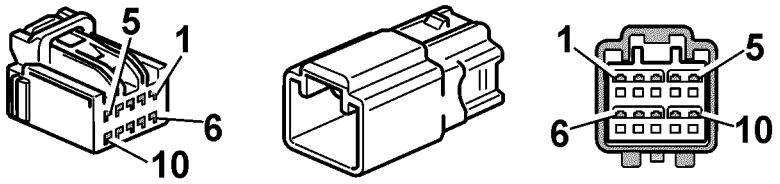


T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	AG:4 D
2	Sun-roof motor control	4015	IQ:1 C
4	Sun-roof motor control	4014	IQ:1 C
5	Reverse lights ON-OFF, and power supply	608	GD:2 C
6	PW supply after VECU PW relays	2985	BM:0 A
7	Power supply kl. 30	263	IM:1 B
8	Power supply kl. 30	321	GC2:3 A
9	Power supply kl. 30	45	GH1:0 B
10	Front door switch control / instep lights control	119 / 4321	GH1:0 C
11	Front door switch control / instep lights control	119 / 4321	GH1:0 C
12	Main switch command	147	IM:2 B
13	Tachograph speed pulse	59	BM:3 C
14	Ground	1	GA2:4 D
15	Tachograph speed pulse to body builder	5108	NA:4 B
16	Power supply kl. 30	45	GH1:0 B
17	Power supply kl. 30	45	GH1:0 B
18	Power supply kl. 15	2317	AI:3 D
19	Reverse lights buzzer	635	GD:2 D
20	Key inserted	169	IN:4 C
21	Ground	1	GH1:3 D
22	Ground	1	GC2:2 C
23	Ground	1	GH1:0 C
24	Low level J1939–6 CAN	0207	XCH2:24
25	Power supply kl. 15	2310	BT:2 B
26	Power supply kl. 15	2310	AH:2 D
27	Power supply kl. 30	2311	GA2:4 D
28	Direct battery	203 / 2296	BM:1 A
29	Tachograph data to TGW2	0405	AH:4 C
30	Ground	1	BM:1 C
31	Rear interior lighting (4 doors cab) control	1021	GH3V:1 B
32	Front parking lights right side	391	GC2:1 A
33	Front parking lights left side	392	GC2:2 A
34	Front door switch control / instep lights control	119	GH1:1 C

35	Parking light	2128	GA2:4 D
36	Power supply kl. 15	2310	AH:2 D

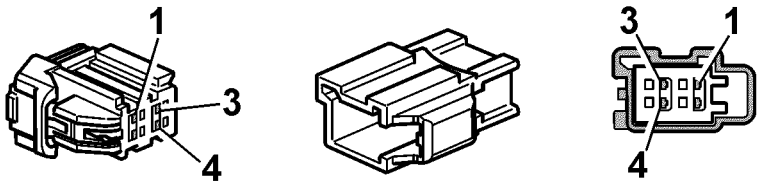
XCH3



T3084564

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	2304	AK:3 D
2	Ground	1	IR:0 B
3	Ground	1	IR:1 C
4	Ground	1	IR:4 B
6	Power supply kl.15	2315	IR:0 B
7	Power supply kl. 30	2336	IR:2 B
8	Power supply kl. 30	2338	IR:4 B

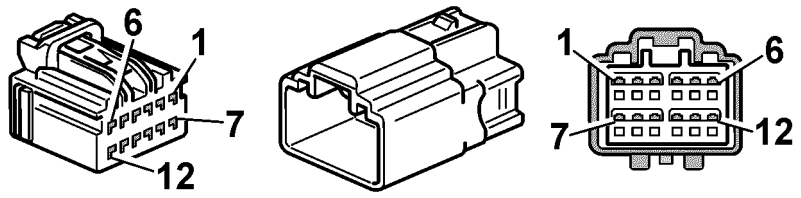
XCI1



T3071138

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	4310	AG:3 D
3	Power supply kl. 30	2304	AK:3 D

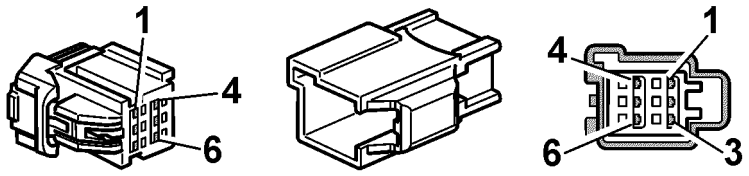
XCI2



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	IMV:1 B
2	Engine running power supply	2229	AN:1 E
4	Power supply kl. 30	2227	AK:0 D
5	Power supply kl. 30	452	GF1:3 B
6	Power supply kl. 15	2317	AI:3 D
8	Power supply kl. 15	2121	AJ:2 D
9	Ignition	2991	AJ:1 D
11	Direct battery	2328	AE:3 D / AF:3 D
12	Power supply (alternator information, engine running)	4306	AN:3 E

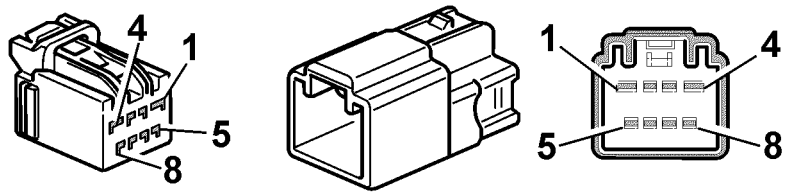
XCI3



T3071123

Pin no:	Circuit function	Wiring no:	Diagram
3	Power supply kl. 30	2313	AK:2 C
5	Power supply kl. 30	2313	AK:2 C
6	Power supply kl. 30	2313	AK:3 D

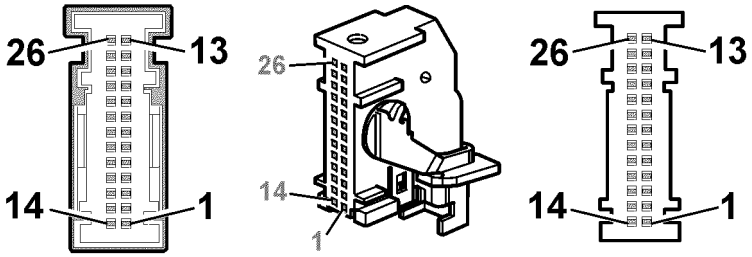
XCIC1



T3084565

Pin no:	Circuit function	Wiring no:	Diagram
1	Trailer CAN bus: H line	0045	EM2:3 C
2	railer CAN bus: L line	0046	EM2:3 C
3	J1939 CAN-1 bus high	0012	XB:1 D
4	J1939 CAN-1 bus low	0013	XB:2 D
5	Bus J1587–1 Diagnostic Line (B-)	0011	XA:2 B
6	Bus J1587–1 Diagnostic Line (B-)	0011	XA:1 B
7	Bus J1587–1 Diagnostic Line (A-)	0010	XA:1 B
8	Bus J1587–1 Diagnostic Line (A-)	0010	XA:1 B

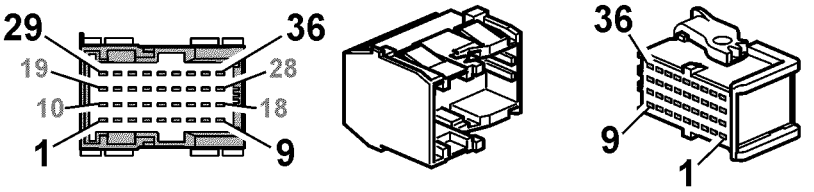
XCIC2



T3084563

Pin no:	Circuit function	Wiring no:	Diagram
1	Engine running power supply	2229	AN:2 E
2	Air suspension inhibit regulation	8137	NB:1 B
3	EBS brake hold enable	5085	DQ1:3 B
4	PTO 1 feedback speed 1	88	NB:4 C
5	Dashboard illumination power supply	64	GC2:4 A
6	Diff lock rear wheels axle 1	87	DU:2 C
8	Transfer box diff lock engaged	8259	BK:O B
9	EBS trailer brake switch	5089	EM2:4 C
10	Ground	1	EM2:3 B
12	Ground	1	GC2:4 B
13	Machine on	8085	NB:3 C
14	Body builder level chassis control	8138	NB:1 B
15	Trailer turn left indicator	39	IN:3 D
16	Alarm siren power supply	2303	IN:3 D
17	Air suspension relay control	1155	FA:3 B / FA1:3 B
18	Dashboard illumination power supply	64	EM2:4 A
19	Dashboard illumination power supply	64	DUV:0 A
20	Dashboard illumination power supply	64	DU:1 A / DU:2 B
21	Dashboard illumination power supply	64	EM2:3 A
22	Power supply kl. 15	2025	EM1:3 B
23	Power supply kl. 15	2025	EM2:3 A
24	Ground	1	FA:3 D
25	Ground	1	EM2:4 B
26	Ground	1	DU:1 B / DU:2 C

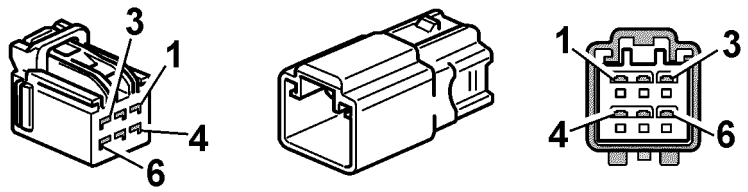
XCIC3



T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply after relay K23	2323	CU32:3 B
2	Diff lock rear wheel control	8129	DU:1 C
3	Power supply kl. 15	2125	AL:4 D
4	Power supply kl. 15	274	FA:3 B / FA1:3 B
5	Climate compressor power supply	462	HY:2 D
6	Diff lock rear inter axle feedback	86	DU:1 B
7	Power supply kl. 30	2233	AK:4 D
8	Ignition	2991	DU:1 A
9	Ignition	2991	AJ:1 D
10	Neutral TB request	8172	IO:2 A
11	Low range transfer box request	8124	IO:2 A
12	Ground	1	FA1:2 A / DUV:2 C
13	Power supply kl. 15	274	AH:4 D
14	Ground	1	FA:2 A / FA1:2 A
16	Beacon warnings lamps control	322	GC2:3 B
17	Ignition	2991	AJ:1 D
18	Power supply kl. 30	321	GC2:3 A
19	Clim pressostat status (MP)	4320	HY:2 D
20	Low range transfer box control	8125	IO:1 A
21	Ground	1	BK:2 E
22	Ground	1	DU:1 E
23	Ground	1	FA:3 C / FA1:4 D
24	Ground	1	FA:3 C / FA1:4 D
25	Power supply after relay air suspension	260	FA:3 B/ FA1:4 B
26	Power supply after relay air suspension	260	FA:3 B/ FA1:4 B
27	Ignition	2991	AJ:1 A
28	Dashboard illumination power supply	64	FA:4 C
29	High range gear TB control	8114	IO:1 A
31	Feed back low range TB	156	IO:3 A
32	Power supply kl.15	2310	AH:1 D
33	Climate compressor power supply before pressure sensor	489	HY:0 C
34	Heated mirror power supply. Windscreen heater relay control	4	IF1:2 B
36	Ignition	2991	DU:2 B

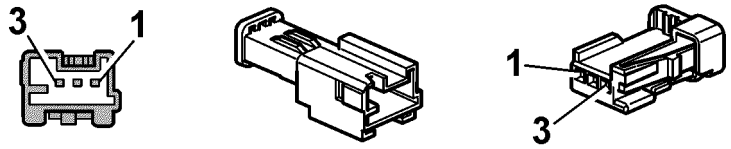
XCIC4



T3071147

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	EM1:3 B
2	Ground	1	EM1:2 B
4	Power supply kl. 30	2309	EM1:4 B
5	Power supply kl. 30	2309	EM1:3 B

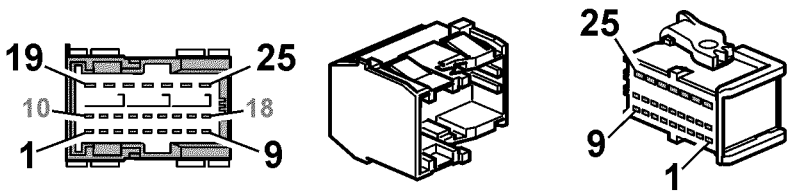
XCIF1



T3071135

Pin no:	Circuit function	Wiring no:	Diagram
2	Bus J1587–1 Diagnostic line (B-)	0011	XA:2 D
3	Bus J1587–1 Diagnostic line (A+)	0010	XA:2 D

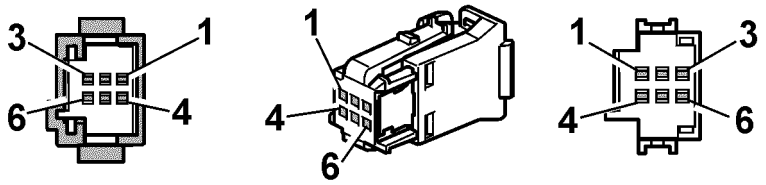
XCIF2



T3071131

Pin no:	Circuit function	Wiring no:	Diagram
1	Rear right turn indicator	38	GC7:3 B
3	Wiper parking status	509	GQ:4 B
4	Trailer turn right indicator	30	GQ:0 D
5	Trailer turn left indicator	39	GQ:0 D
6	Power supply kl. 30	310	GQ1:2 A
7	Power supply kl. 30	310	GQ1:0 C
8	Horn control	311	GQ1:0 C
10	Rear left turn indicator	301	GC7:2 B
11	Power supply kl. 15	243	KA:1 B
13	Washer pump head ligh ctrl	510	GQ:4 B
14	Intermittent wiper timer relay control	503	GQ:4 B
15	Horn relay control	312	GQ1:1 C
16	Ground	1	GQ1:1 C
19	Front door switch control / instep lights control	119 / 4321	GH1:0 D
20	Power supply kl. 30	202	GQ:2 B
21	Ground	1	GQ1:1 C
22	Power supply kl. 30	663	GB1:3 B
24	Front door switch control / instep lights control	119 / 4322	GH1:2 D
25	Power supply kl. 30	310	GQ1:2 B

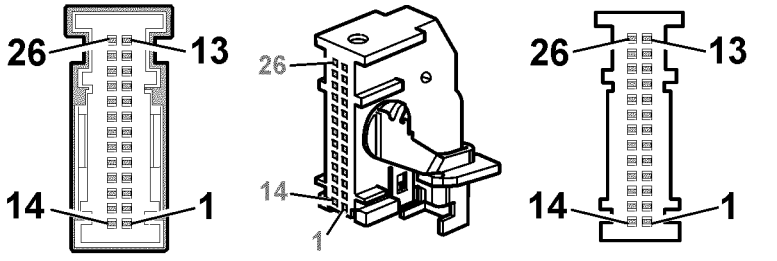
XCIG1



T3084560

Pin no:	Circuit function	Wiring no:	Diagram
1	Bus J1587–1 Diagnostic line (B-)	0011	XA:3 B
2	J1939 CAN-1 bus low	0013	XB:2 B
3	J1939 CAN-1 bus high	0012	XB:2 B
4	Bus J1587–1 diagnostic line (A+)	0010	XA:3 B

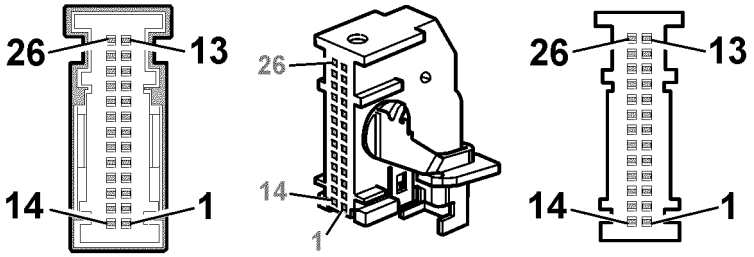
XCIG2



T3084563

Pin no:	Circuit function	Wiring no:	Diagram
1	Park brake trigger relay control	83	KA:0 E
2	Power supply kl. 15	2121	AJ:2 D
3	Power supply kl. 15	2121	AJ:2 D
5	Dashboard switch power supply from VECU	2124	BA:4 D
7	Muddy site mode request	5073	BA:0 D
8	Ground	1	BA:0 E
10	Ground	1	DQ:4 D
15	Neutral gearbox information	12	BA:3 B
16	PTO request on chassis	1140	BA:4 B
19	Dashboard illumination power supply	64	BA:0 D
22	Dashboard illumination power supply	64	DQ1:4 A / DO:4 B
23	PTO 2 request	8113	ND:2 B
24	PTO 3 request	8112	ND:3 B
25	PTO 3 valve	8115	ND:3 B
26	PTO 3 feeback	158	ND:3 B

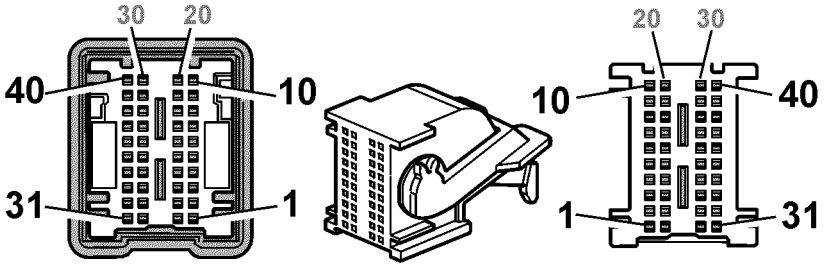
XCIM1



T3084563

Pin no:	Circuit function	Wiring no:	Diagram
1	J1939 CAN-1 bus high	0012	XB:0 C
2	Backbone 2 bus high	0033	GF1:2 D
3	Backbone 2 bus low	0034	GF1:2 D
4	Bus J1587–1 diagnostic line (B-)	0011	XA:0 D
5	Bus J1587–1 diagnostic line (B-)	0011	XA:1 D
7	Bus J1587–1 diagnostic line (A+)	0010	XA:0 D
8	Bus J1587–1 diagnostic line (A+)	0010	XA:1 D
9	Bus J1587–1 diagnostic line (A+)	0010	XA:1 D
10	Bus J1939 CAN 2 (+)	0411	XC:1 C
11	Bus J1939 CAN 2 (-)	0412	XC:1 C
12	J1939 CAN-1 bus low	0013	XB:0 C
13	J1939 CAN-1 bus high	0012	XB:0 D
14	J1939 CAN-1 bus low	0013	XB:0 C
15	Trailer CAN bus : L line	0046	EM2:3 D
16	Trailer CAN bus : H line	0045	EM2:3 D
17	Backbone 2 bus high	0033	GF1:4 D
18	Bus J1587–1 diagnostic line (B-)	0011	XA:1 D
19	Bus J1587–1 diagnostic line (B-)	0011	XA:3 D
20	Bus J1587–1 diagnostic line (A+)	0010	XA:3 D
22	Backbone 2 bus low	0034	GF1:4 D
23	Backbone 2 bus low	0034	GF1:3 D
24	Backbone 2 bus high	0033	GF1:3 D
25	Backbone 2 bus high	0033	GF1:3 D
26	Backbone 2 bus low	0034	GF1:3 D

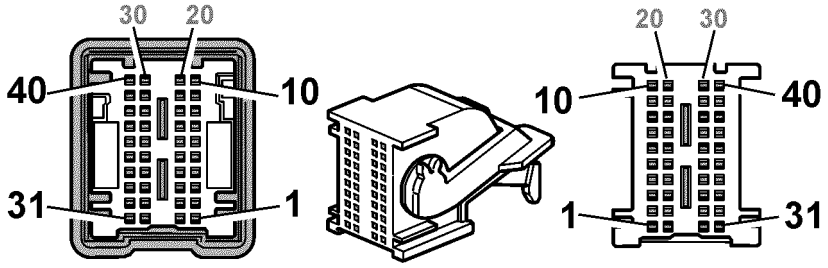
XCIM2



T3084558

Pin no:	Circuit function	Wiring no:	Diagram
1	K diagnostic line	851	GF1:2 A
2	Power supply kl. 15	22	BA:1 B
3	Rear fog lights power supply	307	BK:3 B
4	Manual gearbox information	661	BA:1 D
11	Parking heater push button request	4467	BK:2 D
12	Parking heater push button request	4467	BK:2 D / HJ:1 B / HJ1:1 B
13	Dashboard switch power supply from VECU	2123	BA:3 A
15	Ground	1	IM:4 D
17	Ground	1	BA1:2 B
18	Dashboard switch power supply from VECU	2124	BA:4 E
19	Dashboard switch power supply from VECU	2124	GD:4 B
20	Dashboard switch power supply from VECU	2124	BA:4 D
21	Seat belt reminder	775	BK:3 B
22	Dashboard switch power supply from VECU	2123	BA1:4 C
23	Dashboard switch power supply from VECU	2123	BA:2 A
24	Dashboard switch power supply from VECU	2123	BA1:4 D
25	Front door switch control / Instep lights control	119	GH1:1 D
26	Dashboard illumination power supply	64	GH1:4 B
27	Dashboard illumination power supply	64	BA1:2 D
28	Dashboard illumination power supply	64	BA1:4 D
29	Dashboard illumination power supply	64	BK:3 D
30	Dashboard illumination power supply	64	BA:2 A
31	PTO 1 feedback speed 1	88	BA:4 B
32	Select button BP1 or “HOT Key”	0057	BK:4 D
33	Relay EMS control	0023	BA:1 B
34	Dashboard switch power supply from VECU	2123	BA1:2 D
35	Front door switch control / instep lights control	119	GH1:1 D
37	Outside temperature sensor (+)	709	BK:1 C
38	Outside temperature sensor (-)	710	BK:0 D
40	Neutral gearbox information	12	BA:3 C

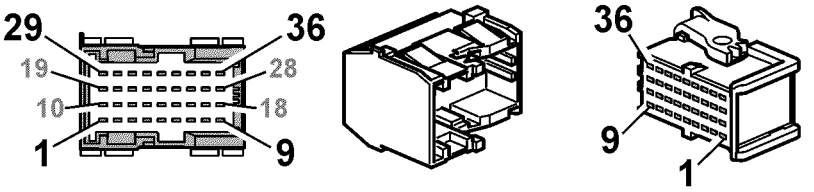
XCIM3



T3084558

Pin no:	Circuit function	Wiring no:	Diagram
2	Power supply kl. 30	2228	IM:3 B
3	PTO 1 request on chassis	1140	BA:4 B
4	Power supply kl. 30	2306	BK:3 A
5	DRL relay command	0862	BA:1 B
6	Starter relay control	5102	CU32:3 C
7	Park brake trigger relay control	83	BA:0 B
8	Clim pressostat status (MP)	4320	HY:2 D
9	Tachograph speed pulse	59	BM:3 C
10	Day running light	669	GA1:3 C
13	Cab heater control	476	BK:2 D
14	Accelerator pedal potentiometer supply	007	BA:3 C
15	Accelerator pedal potentiometer supply	007	BA:3 D
16	Accelerator pedal potentiometer supply	007	BA:3 D
17	Ground	1	BK:3 C
18	Ground	1	GH1:4 C
19	Brake light relay VECU control	5028	BA:1 D
20	Heated mirror ON / OFF	4060	BA:0 B
21	Air filter restriction	720	BK:1 C
24	Chassis / equipment	8116	NB:2 B
25	Power supply kl. 15	24	IM:3 B
27	Ground	1	BA1:3 B
28	Ground	1	BA:2 B
29	Battery charging information	2307	BK:2 D
31	Power supply kl. 30	719	AK:0 C
32	Transfer box diff lock engaged	8259	BK:0 B
33	Idle validation switch	5072	BA:0 D
34	Chassis / equipment	8116	NB:2 B
35	Power supply kl. 15	24	AI:1 D
36	Ground	1	BM:2 C
38	Day running light	669	GA1:3 D
39	Diff lock rear wheels axle 1	87	DU:2 B

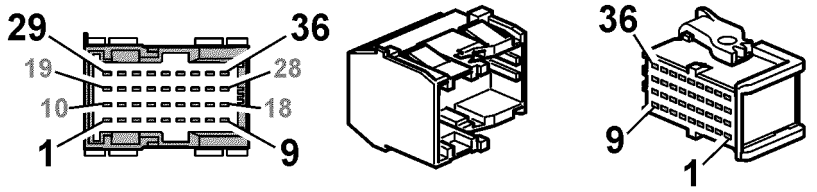
XCIM4



T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	310	GQ1:2 B
3	Ground	1	AB:2 B
4	Power supply kl. 30	2227	AB:1 A / AD:2 B
5	Power supply kl. 15	22	AB:3 A / AD:3 B
6	Power supply kl. 30	452	GF1:2 B
7	Left front high beam lights power supply	603	BK:4 B
8	Power supply kl. 30	666	GH1:4 B
9	Power supply kl. 15	229	BA:1 B
10	Front fog light power supply	60	BK:4 B
12	Ground	1	GF1:1 C
13	Ground	1	GH1:1 E
14	Accessories key position	214	GH1:1 E
15	Ground	1	
16	Reverse lights relay control	1018	GD:1 A
17	Accessories key position	214	AB:3 A / AD:3 B
20	Bodybuilder predisposition switch	0461	NB:0 B
21	Bodybuilder predisposition switch	0460	NB:0 B
22	Key inserted	169	AB:1 A
23	Horn relay control	312	GQ1:1 C
26	Heated mirror request	386	IF1:0 D
27	Diff lock rear inter axle feedback	86	DU:0 B
28	Trailer turn right indicator	30	GF:4 A / GK:3 C / GK1:3 C
29	Trailer turn right indicator	39	GF:4 A / GK:3 C / GK1:3 C
30	Engine speed “W” alternator termination	7	NA:3 B
32	Chassis lighting or valve lighting	618	NB:4 C
33	Machine ON	8083	NB:3 B
35	Heated mirror power supply. Windscreen heater relay control	4	IF1:2 B

XCIN1

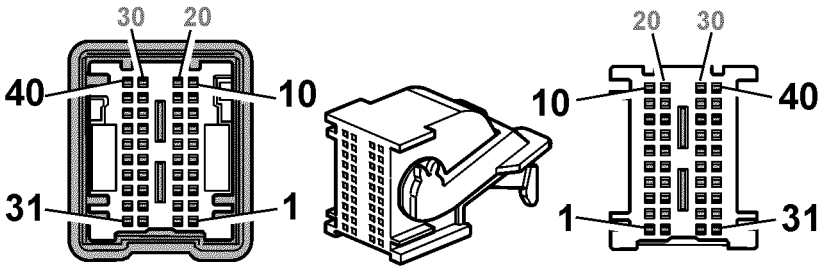


T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	2325	AJ:3 D
3	Ground	1	DQ1:1 B
5	Power supply kl. 30	270	DQ1:1 B
6	Power supply after optidriver 2 power supply relay / neutral gear box information	2127 / 12	DQ1:1 A
10	Power supply kl. 15	2325	AJ:3 C
11	Power supply kl. 15	2325	AJ:4 D
12	Ground	1	DQ1:2 B / DO:0 C
13	Ground	1	DQ1:4 C / DO:4 E
15	Optidriver 2 power supply relay control / allison relay control	2320 / 5031	DQ1:1 B
16	Ground	1	DQ1:1 B
17	Ground	1	DQ1:2 A
18	Power supply kl. 30	2225	DQ1:2 A
19	Chassis lighting or valve lighting	618	NB:4 C
20	Machine ON	8083	NB:3 B
21	Ground	1	IN:2 B
22	Ground	1	NB:4 C
23	Bodybuilder predisposition switch	0461	NB:0 B
24	Bodybuilder predisposition switch	0460	NB:0 B
25	Dashboard illumination power supply	64	IN:2 A
26	Dashboard illumination power supply	64	NB:4 A
27	Power supply kl. 30	2120	NB:4 B
28	Power supply kl. 15	4460	IR1:2 C
29	ADR alternator relay control	2226	AD:3 C
30	Ground	1	AD:3 E / GH3V:2 C
31	ADR alternator relay	2126	AD:4 C
32	ADR alternator relay control	1150	AD:4 D
32	Rear door switch control	1020	GH3V:2 C
33	Power supply kl. 30	45	GH3V:2 B
33	ADR alternator relay	2126	AD:4 C
34	Ground	1	AD:3 D
35	Ground	1	AD:3 D / GH3V:2 C

36	ADR alternator relay control	2226	AD:3 C
36	Rear interior lighting (4 doors cab) control	1021	GH3V:2 B

XCIN2

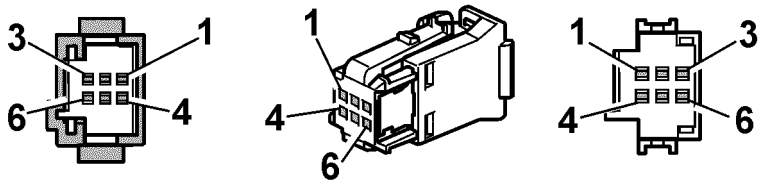


T3084558

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	4309	IR1:2 B
2	Direct battery	203 / 2296	BM:1 A
3	Docking station power supply	48	IR1:1 C
4	Rear interior lighting (4 doors cab) control	1021	GH3V:1 B
5	Dashboard & driver control illumination power supply	64	IQV:2 E
6	Dashboard illumination power supply	64	IF1:1 B
7	Outside temperature sensor (+)	709	BK:1 D
8	Outside temperature sensor (-)	710	BK:0 D
10	PW supply after VECU PW relays	2987	AL:4 D
14	Dashboard illumination power supply	64	IF1:1 B
15	Dashboard illumination power supply	64	IA:3 B
16	Dashboard illumination power supply	64	HY:2 B
19	Door switch signal	1159	GH1:1 C
20	PW supply after VECU PW relays	2985	BM:0 A
21	Select button BP1 or “HOT key”	0057	BK:4 D
22	Power supply kl. 30	719	AK:0 C
23	Parking lights control by stalk switch	313	GQ:3 B
25	Power supply kl. 30	719	GM:3 B
27	Dashboard illumination power supply	64	GQ:3 A
28	Dashboard illumination power supply	64	GC5:1 B
29	Front door switch control / instep lights control	119	GH1:2 E
30	Front door switch control / instep lights control	119	GH1:1 D
31	Power supply kl.30	373	GQ:2 B
32	Power supply kl.30	373	GA1:1 B
33	Parking lights control by stalk switch	313	GA1:0 B
34	Parking lights relay control	303	GQ:2 D
36	High beam lights relay control	62	GB1:3 B
37	Rear fog lights relay control	370	GB2:2 B

39	Front fog light control	69	GB2:0 B
40	Indicator signal to LCM	0375	GQ:4 B

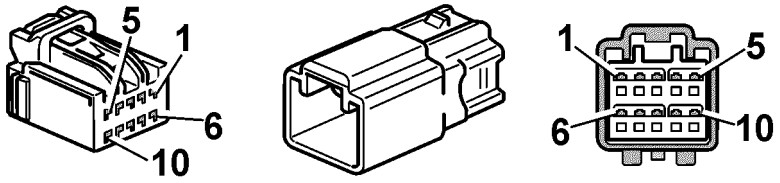
XCIO1



T3084560

Pin no:	Circuit function	Wiring no:	Diagram
1	Bus J1587–1 diagnostic line (B-)	0011	XA:2 D
2	Bus J1587–1 diagnostic line (A+)	0010	XA:2 D
3	BUS J1939 CAN 2 (+)	0411	XC:2 C
4	BUS J1939 CAN 2 (-)	0412	XC:2 C
5	BUS J1939 CAN 2 (+)	0411	XC:2 C
6	BUS J1939 CAN 2 (-)	0412	XC:2 C

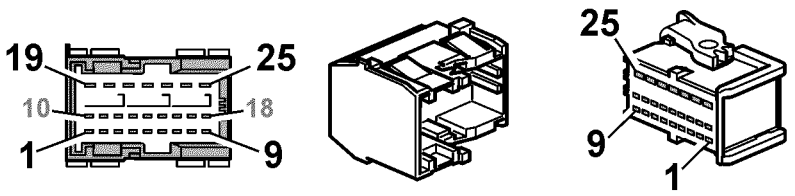
XCIO2



T3084564

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	456	AG:3 D
2	Power supply kl. 15	456	AG:3 D
3	Ground	1	IF1:4 E
4	Ground	1	IR:4 B
5	Power supply kl. 15	4308	IA:3 B
6	Power supply kl. 30	2331	IR:3 B
7	Ground	1	IF1:4 E
9	Ground	1	IA:3 D
10	Power supply for heater	2132	AE:0 D

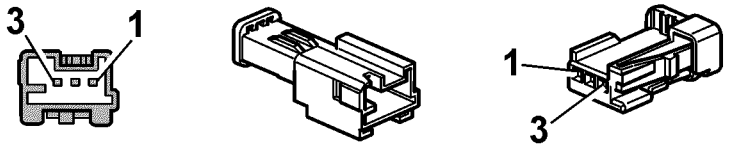
XCIO3



T3071131

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH1:2 B
2	Power supply kl. 30	45	GH1:2 B
4	Heated mirror request	386	IF1:0 D
5	Power supply kl. 15	2310	AH:2 D
7	Climate compressor power supply before pressure sensor	489	HY:0 C
8	Power supply kl. 30	2335	IR1:2 B
9	Heated mirror power supply. windscreen heater relay control	4	IF1:2 B
10	Front door switch control / instep lights control	119 / 4322	GH1:2 D
11	Power supply kl. 30	45	GH3V:3 A
12	Front door switch control / instep lights control	119 / 4322	GH1:2 D
15	Rear interior lighting (4 doors cab) control	1021	GH3V:1 B
16	Power supply kl. 15	463	HY:0 B
17	Heated mirror power supply. Windscreen heater relay control	4	IF1:2 B / IF2:2 C
18	Power supply kl. 15	215	IF1:0 B
19	Ground	1	IR1:2 B
20	Ground	1	HY:2 C
21	Ground	1	HY:2 C
22	Power supply kl. 15	2014	HY:1 B
23	Power supply kl. 15	2014	HY:0 B
24	Power supply kl. 15	2232	IQ:3 A

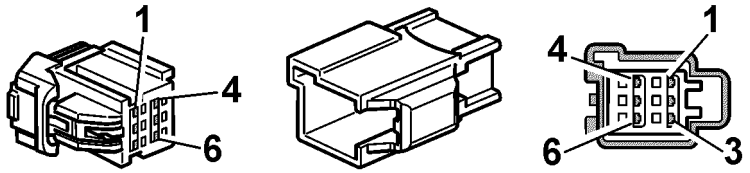
XCIR1



T3071135

Pin no:	Circuit function	Wiring no:	Diagram
2	J1939 CAN-1 bus low	0013	XB:1 B
4	J1939 CAN-1 bus high	0012	XB:1 B

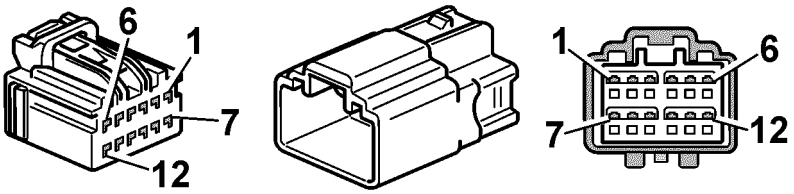
XCIR2



T3071123

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	273	AH:3 D
2	Power supply kl. 15	273	AH:3 D

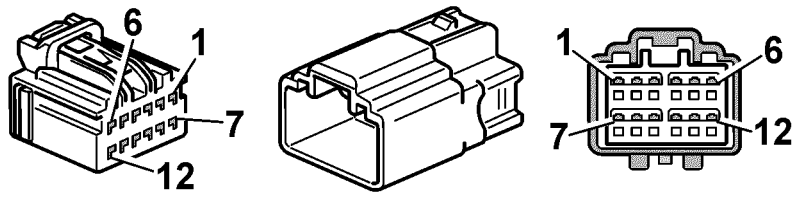
XCIS1



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	J1939 CAN-1 bus low	0013	XB:1 B
2	J1939 CAN-1 bus high	0012	XB:1 B
3	Bus J1939 CAN 2 (+)	0411	XC:1 C
4	Bus J1939 CAN 2 (-)	0412	XC:1 C
5	High level J1939–6 can	0206	BT:2 C
6	Low level J1939–6 can	0207	BT:2 C
7	J1939 CAN-1 bus high	0012	XB:1 B
8	J1939 CAN-1 bus low	0013	XB:1 B
9	Bus J1587–1 diagnostic line (B-)	0011	XA: 0 D
10	Bus J1587–1 diagnostic line (B-)	0011	XA:0 D
11	Bus J1587–1 diagnostic line (A+)	0010	XA:3 D
12	Bus J1587–1 diagnostic line (A+)	0010	XA:0 D

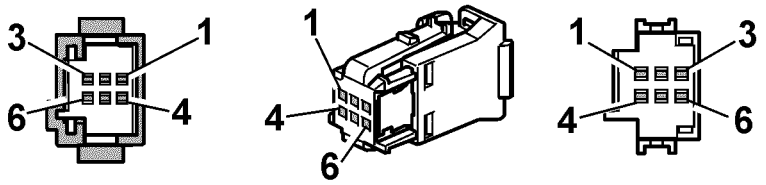
XCIS2



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply starter relay	5101	CU32:2 C
3	Power supply kl. 15	2317	AI:3 D
4	Power supply kl. 15	2317	AI:3 D
5	Power supply starter relay	5101	CU32:2 C
6	Power supply kl. 15	2310	AH:1 D
7	Power supply kl. 30	2312	AK:1 C
9	Ground	1	BV2:1 D
10	Ground	1	BT:0 C
12	Power supply kl. 15	2310	AH:1 D

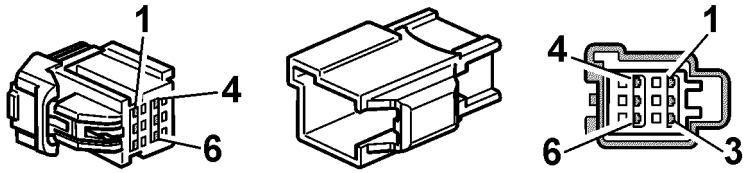
XCIS3



T3084560

Pin no:	Circuit function	Wiring no:	Diagram
1	Tachograph speed pulse to body builder	5108	NA:4 B
2	Power supply kl. 15	4309	AG:2 D
3	Tachograph data to TGW2	0405	BM:4 C
4	Dashboard illumination power supply	64	GA2:1 C
5	Dashboard illumination power supply	64	GA2:1 C
6	Power supply kl. 30	2327	BT:1 B

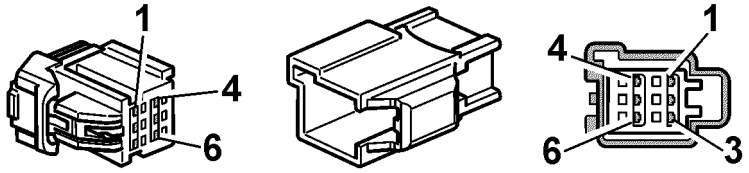
XCR3



T3071123

Pin no:	Circuit function	Wiring no:	Diagram
1	Engine running power supply	2229	AN:1 E
2	Power supply (alternator information, engine running)	4306	IA:2 B
3	Ground	1	IA:2 D
4	Seat belt reminder	775	IA:2 B
5	Power supply (alternator information, engine running)	4306	IA:0 B
6	Ground	1	IA:0 D

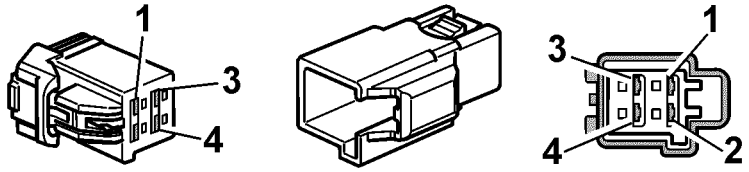
XCR4



T3071123

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	45	GH1:3 B
2	EBS trailer brake switch	5089	EM2:4 D
3	Engine running power supply	2229	KA:3 B
4	Ground	1	GH1:3 D
5	Ground	1	EM2:4 E / KA:3 C
6	Dashboard illumination power supply	64	EM2:4 D

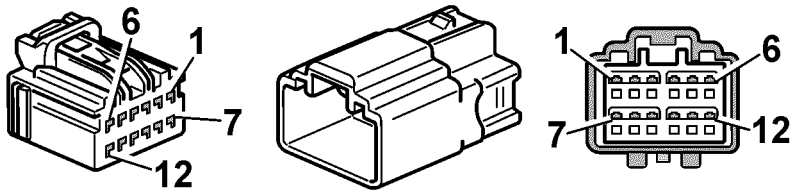
XCR5



T3084559

Pin no:	Circuit function	Wiring no:	Diagram
2	Ground	1	IR:4 E
3	Power supply kl. 30	2302	IR:3 C

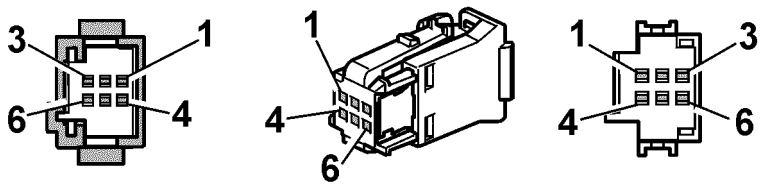
XCR7



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Engine running power supply	2229	AN:2 E
2	Direct battery	2328	AE:3 D
2	Direct battery	2328	AF:3 D
3	Power supply kl. 15	4309	AG:2 D
4	Power supply kl. 15	2310	AH:2 D
6	Power supply kl. 15	4310	AG:3 D
7	Power supply kl. 30	5100	IM:0 B
9	Ground	1	IM:0 B

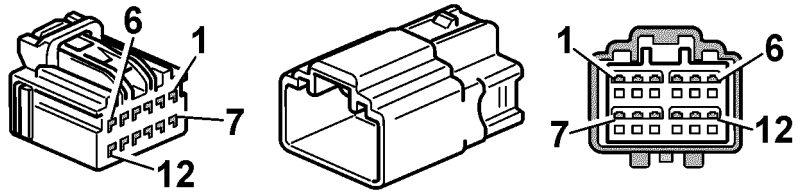
XCR8



T3084560

Pin no:	Circuit function	Wiring no:	Diagram
1	Bus J1587–1 diagnostic line (A+)	0010	XA:2 D
2	Bus J1939 CAN 2 (-)	0412	XC:2 D
3	J1939 CAN-1 bus high	0012	XB:1 D
4	Bus J1587–1 diagnostic line (B-)	0011	XA:2 D
5	Bus J1939 CAN-1 bus low	0411	XC:2 D
6	J1939 CAN-1 bus low	0013	XB:1 D

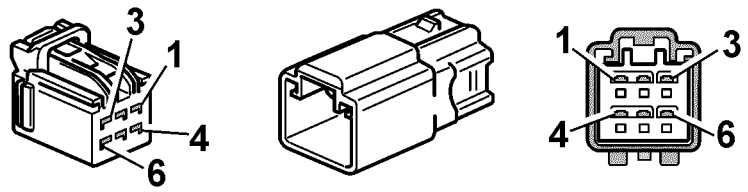
XCR11



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	2986	HJ:1 B / HJ1:2 B
2	Auxiliary pump feedback	89	HJ1:0 B
3	K diagnostic line	851	HJ:3 D / HJ1:3 B
4	Dashboard illumination power supply	64	HJ:0 B / HJ1:0 B
5	Dashboard illumination power supply	64	HJ:2 A / HJ1:1 A
6	Cab heater control	476	HJ:2 B / HJ1:2 B
7	Engine running power supply	2229	HJ1:3 B
8	Parking heater push button request	4467	HJ:1 B / HJ1:1 B
9	PTO 1 feedback speed 1	88	HJ1:3 B

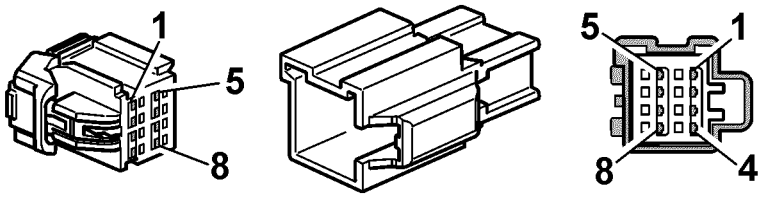
XCR12



T3071147

Pin no:	Circuit function	Wiring no:	Diagram
2	Ground	1	HJ:3 E / HJ1:3 E
4	Power supply for heater	2132	HJ:3 B / HJ1:2 B
5	Parking heater fuel dosing pump ground	413	HJ:3 D / HJ1:3 D
6	Parking heater fuel dosing pump control	414	HJ:3 D / HJ1:3 D

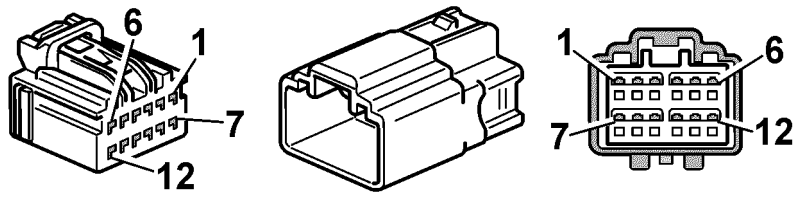
XCRH



T3071139

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	2231	IQ:1 A
2	Ground	1	IM:2 B
3	Ground	1	IM:2 B
4	Dashboard illumination power supply	64	IQ:1 C
5	Sun-roof motor control	4014	IQ:1 C
6	Sun-roof motor control	4015	IQ:1 C
7	Lock door request	436	IM:1 B
8	Unlock door request	484	IM:1 B

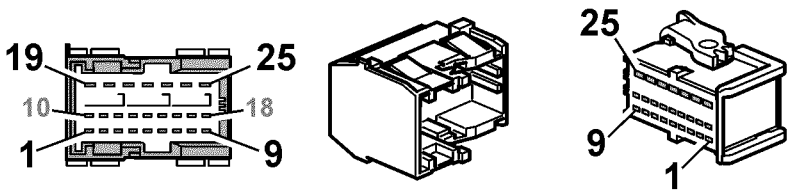
XCRI



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Dashboard illumination power supply	64	AC:2 A
2	ADR main switch led ground	1149	AC:2 B
4	Key inserted info	5066	AC:2 A
5	ADR main switch closing request	5067	AC:2 B
6	ADR main switch closing request	5070	AC:2 B
7	Power supply kl. 15	2117	AC:2 A
12	ADR main switch led ground	1149	AC:2 B

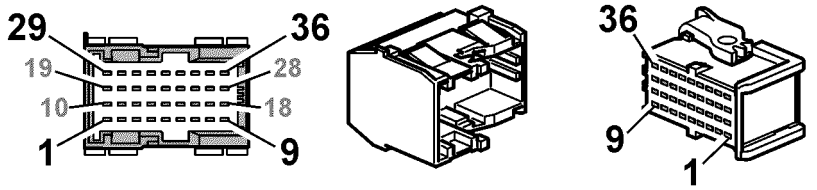
XFB1



T3071131

Pin no:	Circuit function	Wiring no:	Diagram
1	Direct battery	2296	BM:1 A
2	Auxiliary power supply. After main switch	2305	FC:2 D
3	ADR main switch closing request	5070	AC:2 B
4	ADR main switch led ground	1149	AC:2 B
5	Coded line alarm trailer connection freight	0403	NC:1 B
6	Engine water level signal	0151	CA:4 B
7	ADR alternator relay control	1150	AD:4 D
8	Bus J1587–1 diagnostic line (A+)	0010	XA:3 D
9	Rear left marker	668	NC:1 B
10	Power supply kl. 30	2230	FC:1 A
11	Direct battery	203 / 2296	BM:1 A
12	ADR main switch closing request	5070	AC:2 B
13	Key inserted info	5066	AC:1 A
14	Main switch command	147	AA:2 C
15	ADR alternator relay control	2226	AB:3 C
16	Engine water level	81	CA:4 B
17	Bus J1587–1 diagnostic line (B-)	0011	XA:3 D
18	Rear right marker	667	NC:1 B
19	Power supply kl. 30	2233	AA:0 A / AC:4 A
20	Power supply kl. 15	5098	CU32:4 B
21	Auxiliary power supply. After main switch	2305	AA:1 B / AC:4 C / NC:1 B
22	Power supply kl. 15	275	NC:1 B
23	Ground	1	CU32:4 D
24	Ground	1	AA:2 D / AC:1 E / FC:3 D
25	Power supply kl. 30	208	NC:1 B

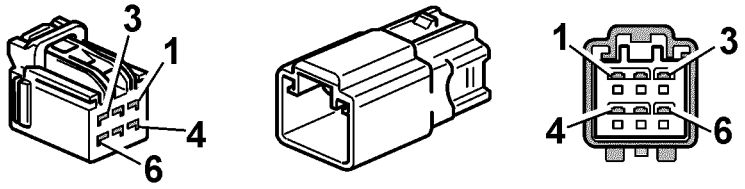
XFD1



T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	Brake lights power supply tractor	324	GD:3 D
2	ADR alternator relay control	2226	AB:3 C
3	Engine water level	81	CA:4 C
4	Bus J1587–1 diagnostic line (B-)	0011	XA:3 B
6	Air filter restriction	720	BK:1 D
7	Power supply kl. 15	2121	AJ:2 D
8	Climate compressor power supply	462	HY:2 D
10	PW supply after VECU PW relays	2988	AL:2 E
11	Engine water level signal	0151	CA:4 C
12	Ground	1	BK:1 E
13	Bus J1587–1 diagnostic line (A+)	0010	XA:3 C
14	Engine speed “W” alternator termination	7	NA:3 B
15	Alternator engine running: generating current	25	AB:3 C / AD:2 C
17	Idle validation switch	5072	CA:3 A
18	Power supply after relay K23	2323	CA:1 A
19	PW supply after VECU PW relays	2330	AL:2 E
20	Power supply after relay K29	2329	AL:2 E
21	Ground	1	CA:0 B
23	Backbone 2 bus low	0034	GF1:2 D
24	Backbone 2 bus high	0033	GF1:2 D
25	J1939 CAN-1 bus high	0012	XB:3 C
26	J1939 CAN-1 bus low	0013	XB:3 C
27	PW supply after VECU PW relays	2987	AL:4 D
28	PTO 2 feedback	8134	ND:2 B
29	PTO 2 valve	8161	ND:2 B
30	EBS brake hold enable	5085	DQ1:3 C
31	Neutral gearbox information	12	BA:3 B
32	PTO 1 feedback speed 1	88	DQ:1 B
33	Manual gearbox reverse gear switch	661	GD:0 A
34	PTO 1 valve	8093	DQ:0 D
35	Power supply kl. 15	2121	DQ:0 A
36	Power supply kl. 15	2325	AJ:3 D

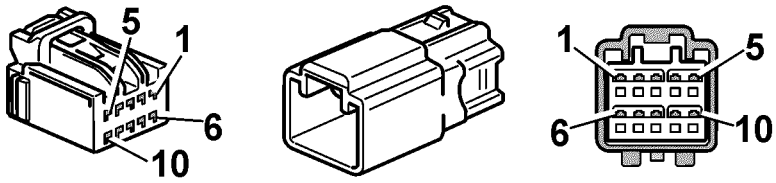
XFD2



T3071147

Pin no:	Circuit function	Wiring no:	Diagram
1	Ground	1	CA:0 B
2	Ground	1	YB:1 D / DO:1 B
3	Ground	1	YB:2 D / DO:1 B
4	Ground	1	CA:0 B
5	Ground	1	CA:0 B
6	Ground	1	CA:0 B

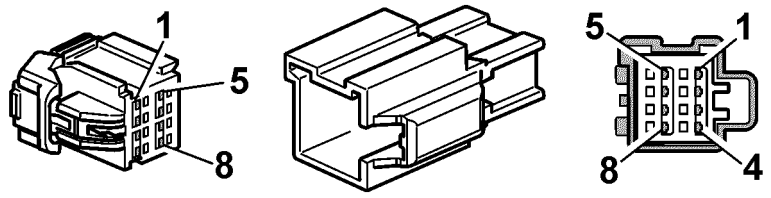
XFD3



T3084564

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30	299	CA:3 A
2	Power supply after relay K29	291	CA:2 A
3	Power supply after relay K29	291	CA:2 A
4	Power supply kl. 30	270	DQ1:0 B/ / DO:2 B
7	Power supply after relay K29	292	CA:1 A
8	Power supply kl. 30	270	DQ1:0 B / DO:2 B
9	Power supply kl. 15	808	CU32:3 B
10	Power supply kl. 15	5098	CU32:3 B

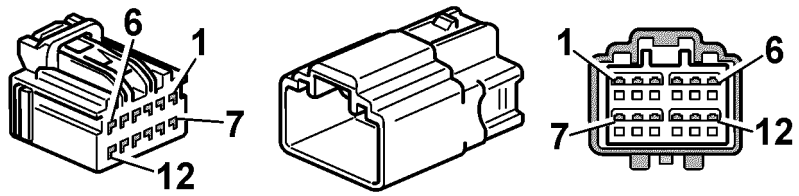
XFF1



T3071139

Pin no:	Circuit function	Wiring no:	Diagram
3	Ground	1	IN:3 E / DUV:0 E
4	Parking heater fuel dosing pump ground	413	HJ:4 D / HJ1:4 D
5	Front parking lights right side	391	GC4:3 B
6	Front parking lights left side	392	GC4:0 B
7	Ground	1	YB:0 D
8	Parking heater fuel dosing pump control	414	HJ:4 D / HJ1:4 D

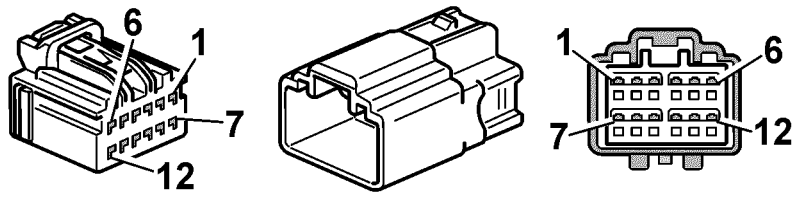
XFL1



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Relay park break trigger control	8109	KA:1 C
2	Day running light	669	GC5_New:2 B
3	Day running light	669	GC5_New:1 B
5	Left front high beam lights power supply	603	GC5:0 C
6	Right front high beam lights power supply	602	GC5:2 C
8	Front parking lights right side	391	GC5:2 C
9	Front parking lights left side	392	GC5:0 C
11	Front fog light power supply	60	GC5:3 C
12	Front fog ligh ON-OFF	63	GC5:4 C

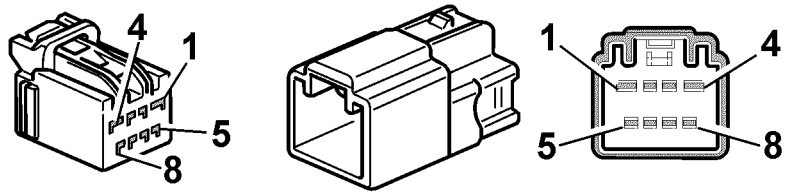
XFRC1



T3071127

Pin no:	Circuit function	Wiring no:	Diagram
1	Rear left turn indicator	301	GC7:2 B
2	Rear right turn indicator	38	GC7:3 B
3	Reverse lights ON-OFF, and power supply	608	GC7:2 B
4	Chassis/equipment	8116	NC:3 B
5	Ignition	2991	AJ:1 D
6	Bodybuilder predisposition switch	0460	NC:3 B
7	Parking lights left side	305	GC7:1 B
8	Brake lights power supply tractor	324	GC7:2 B
9	Bodybuilder predisposition switch	0461	NC:3 B
10	Parking lights right side	304	GC7:2 B
11	Reverse lights buzzer	635	GC7:4 B

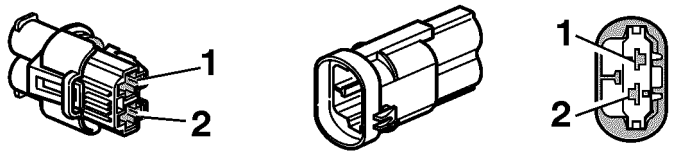
XFTP1



T3084565

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	606	GF:3 B
2	Coded line alarm trailer connection freight	0403	GF:4 D
3	Power supply kl. 15	211	GF:1 B / GK:2 B / GK1:1 B
4	Brake lights power supply	3	GF:3 B / GK:3 C / GK1:3 C
5	Rear right marker	634	GF:3 D / GK1:3 C
6	Rear fog lights PW supply	308	GF:4 D
7	Reverse lights ON-OFF, and power supply	608	GF:3 B / GK:3 C / GK1:3 C
8	Rear left marker	632	GF:1 B / GK:3 C / GK1:3 C

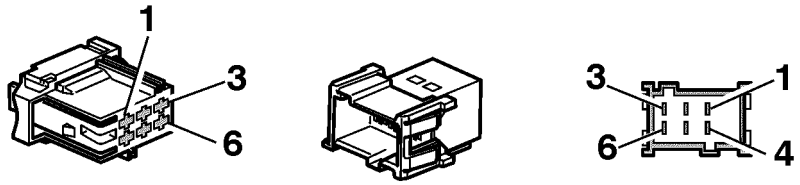
XT65



T3019931

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 30 for windscreen heater	238	IF1:4 A

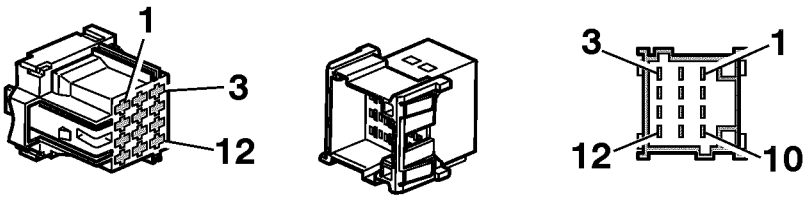
YCF1



T3019918

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply kl. 15	501	GM:2 C
2	High speed wiper motor power supply	502	GM:2 C
3	Low speed wiper motor power supply	504	GM:3 C
4	Rear fog ligghts power supply	307	GM:2 D
5	Ground	1	GM:3 D

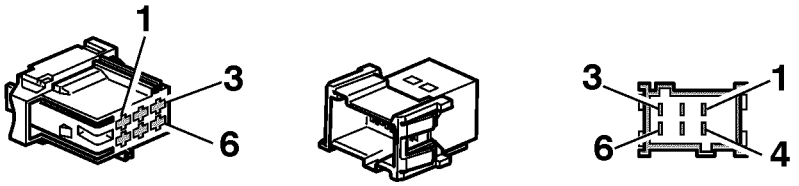
YCF2



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	EBS footbrake position	039	EM1:1 B
2	EBS footbrake valve	040	EM1:1 B
3	EBS footbrake sensor power supply	056	EM1:1 B
4	EBS footbrake valve ground	072	EM1:1 B
5	EBS footbrake sensor switch	5077	EM1:1 B
6	Heated mirror power supply. Windscreen heater relay control	4	IF1:3 B
7	Climate compressor power supply	462	HY:1 D
8	Climate compressor power supply before pressure sensor	489	HY:0 D
9	Clim pressostat status (MP)	4320	HY:1 D

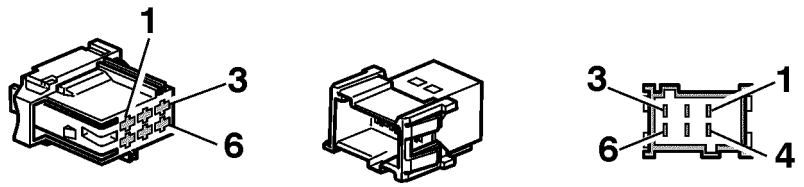
YFB1



T3019918

Pin no:	Circuit function	Wiring no:	Diagram
1	Power supply body builder on chassis	2057	NB:4 C
2	Bodybuilder power supply, machine ON	2983	NB:4 C
3	J1939 CAN-1 bus high	0012	XB:3 D
4	J1939 CAN-1 bus low	0013	XB:3 D

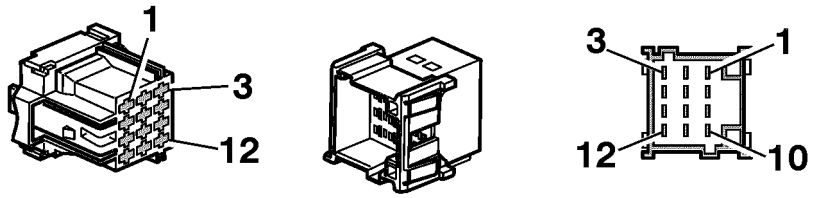
YFD1



T3019918

Pin no:	Circuit function	Wiring no:	Diagram
1	Tachograph speed sensor supply	142	BM:1 C
2	Speed signal real time	141	BM:2 C
3	Ground	825	BM:2 C
4	Tachograph data signal	0056	BM:2 C

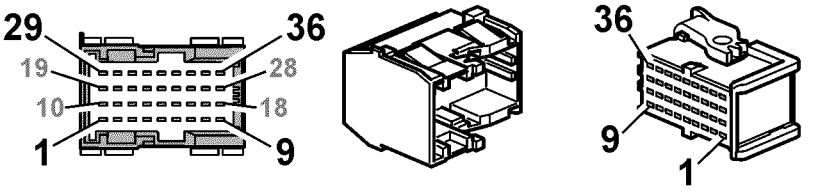
YFD2



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	Range redundancy	5109	DQ1:4 C
2	ZF CAN low	0022	DO:0 C
2	ZF CAN high	0021	DO:0 C
4	Allison relay control	5031	DQ1:1 B

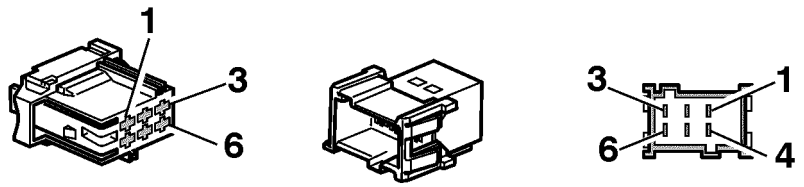
YFF1



T3071134

Pin no:	Circuit function	Wiring no:	Diagram
1	ESP sensor ground	1124	EM2:1 B
2	ESP sensor power supply	5048	EM2:1 B
3	EBS yaw-rate and steering angle dedicated CAN bus L line	0416	EM2:0 B
4	EBS yaw-rate and steering angle dedicated CAN bus H line	0415	EM2:0 B
5	EBS right outlet valve control	540	EM1:3 D
6	EBS right inlet valve control	539	EM1:3 D
7	EBS solenoid valve ground	1012	EM1:4 D
8	EBS left inlet valve control	556	EM1:4 D
9	EBS left outlet valve control	557	EM1:4 D
10	EBS solenoid valve ground	1012	EM1:4 D
11	EBS front module ground	5080	EM1:2 D
12	EBS front module +24V power supply	5079	EM1:1 D
13	EBS front module dedicated CAN L	0147	EM1:2 D
14	EBS front module dedicated CAN H	0148	EM1:2 D
15	Disc brake pad sensor	8040	BK:3 D
16	Chassis level rear axle sensor +	8142	FA1:2 D
17	Sensor chassis level front axle	879	FA1:2 D
18	Chassis level rear axle sensor -	8140	FA1:2 D
19	ECS pressure sensor power supply	8077	FA1:1 D
20	ECS rear left axle air pressure ground	8158	FA1:1 D
21	Air suspension pressure sensor ground	899	FA1:1 D
22	Alarm siren power supply	2303	IN:3 D
23	Burglar alarm control	0039	IN:3 D
24	Front axle bellow valve control	816	FA1:0 B
25	Ground	1	FA1:2 A
29	Transfer box diff lock engaged	8259	DUV:3 B
30	Ignition	2991	DUV:1 B
31	Diff lock transfer box control	8126	DUV:0 C
32	Front wheel drive diff lock control	8179	DUV:2 B
33	Feed back low range TB	156	DUV:2 B
34	Front wheels diff lock engaged	157	DUV:3 B
35	Low range transfer box control	8125	DUV:1 D
36	High range gear TB control	8114	DUV:1 D

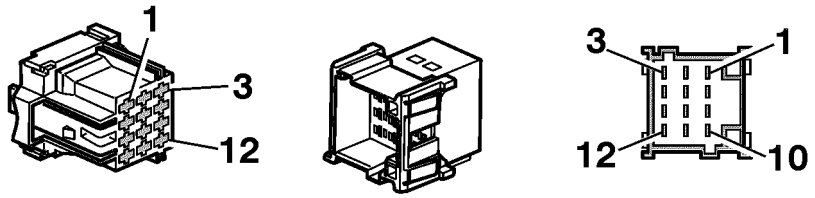
YFF2



T3019918

Pin no:	Circuit function	Wiring no:	Diagram
1	Fuel level sensor (+)	76	BK:1 C
2	Fuel level sensor (-)	718	BK:0 D
3	Disc brake pad sensor	867	BK:3 C

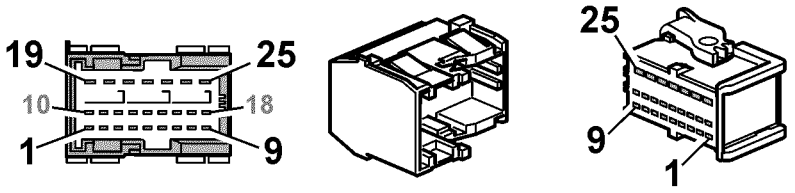
YFL1



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	Front / door right turn indicator	37	GC5:2 C
2	Front / door left turn indicator	302	GC5:1 C
3	Horn control	311	GQ1:3 C
4	Low beam lights ON-OFF control	604	GC5:0 C
5	Low beam lights ON-OFF control	605	GC5:2 C
6	Right front high beam lights power supply	602	GM:0 B
7	Front headlights angle control 12V power supply	388	GC5:3 C
8	Front headlights angle control	437	GC5:1 C
9	Power supply headlamp washer pump	5094	GM:1 C

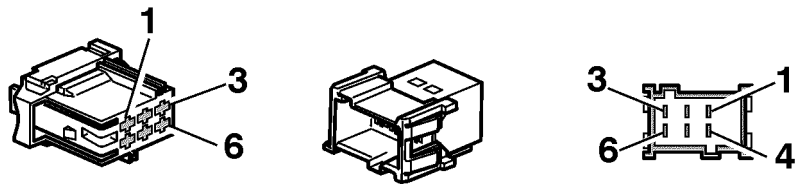
YFRA1



T3071131

Pin no:	Circuit function	Wiring no:	Diagram
1	EBS rear module +24V power supply	5081	EM1:0 D / EM1:1 D
2	EBS rear module ground	5082	EM1:0 D / EM1:1 D
3	EBS rear module dedicated CAN H	066	EM1:1 D / EM1:1 D
4	EBS rear module dedicated CAN L	064	EM1:1 D / EM1:1 D
5	Disc brake pad sensor	8040	BK:3 D
6	Disc brake pad sensor	8040	BK:3 E
7	Ground	1	DU:1 D
8	Diff lock rear wheel control	8129	DU:1 C
9	Diff lock rear wheels axle 1	87	DU:2 C
10	Ground	1	FA:2 A / FA1:2 A
11	Drive axle valve air inlet / outlet control	813	FA:0 B / FA1:1 B
12	Rear right axle bellow valve control	814	FA:0 B / FA1:1 B
13	ECS pressure sensors power supply	8077	FA:1 D / FA1:2 D
14	AIr suspension pressure sensor ground	899	FA:1 D / FA1:2 D
15	Chassis level rear axle sensor -	8140	FA:2 D / FA1:2 D
16	Chassis level rear axle sensor +	8142	FA:2 D / FA1:2 D
17	Sensor, chassis level, rhs, rear axle	881	FA:2 D / FA1:3 D
18	ECS rear right axle air pressure sensor	8160	FA:1 D / FA1:2 D
19	Rear left axle bellow valve control	815	FA:0 B / FA1:1 B
20	ECS rear right axle air pressure sensor	8159	FA:0 D / FA1:1 D
21	Sensor, chassis level, lhs, rear axle	880	FA:1 D / FA1:2 D
23	Diff, lock rear inter axle feedback	86	DU:0 C

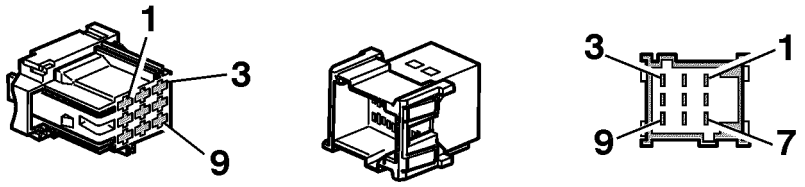
YFSA1



T3019918

Pin no:	Circuit function	Wiring no:	Diagram
1	Forward Looking Sensor +24v	523	BW:0 C
2	Forward Looking Sensor Ground	524	BW:1 C
3	Forward Looking Sensor CAN H	527	BW:1 D
4	Forward Looking Sensor CAN L	528	BW:1 D

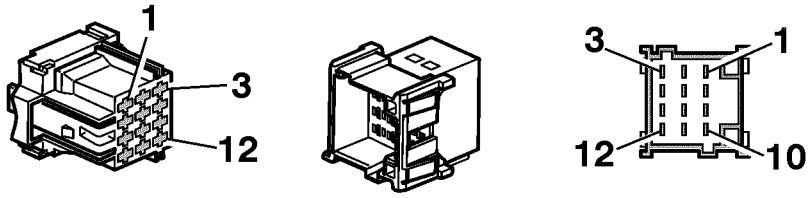
YFT1



T3019929

Pin no:	Circuit function	Wiring no:	Diagram
1	EBS trailer control module pressure sensor supply	0376	
2	EBS trailer control module pressure sensor signal	0377	
3	EBS trailer control module pressure sensor ground	0380	
4	EBS trailer control module power supply	5050	
5	EBS TMC inlet valve control	5091	
6	EBS TMC outlet valve control	5092	
7	EBS TMC backup valve control	5093	

YFTP1



T3019801

Pin no:	Circuit function	Wiring no:	Diagram
1	ABS trailer state	352	GF:0 B / GK:1 B / GK1:0 B
2	Chassis lighting or valve lighting	618	GF:3 B
3	Loading	607	GH1:4 C
4	Trailer CAN bus : H line	0045	GF:0 B / GK:1 B / GK1:1 B
5	Trailer CAN bus : L line	0046	GF:0 B / GK:1 B / GK1:1 B
6	Trailer turn right indicator	30	GF:4 B / GK:3 C / GK1:3 C
7	Trailer turn left indicator	39	GF:4 B / GK:3 C / GK1:3 C

List of wiring numbers

007	(BA:3 C)	0086	(DQ1:1 D)
0010	(XA:0 D)	0087	(DQ1:2 D)
0011	(XA:0 D)	0088	(DQ1:3 D)
0012	(XB:2 A)	0089	(DQ1:1 D)
0013	(XB:2 A)	017	(BA:3 D)
0023	(BA:1 B)	028	(BA1:2 A)
0033	(CM:2 B)	039	(EM1:1 B)
0034	(CM:2 B)	040	(EM1:1 B)
0038	(BA:3 D)	045	(BA1:4 A)
0039	(IN:3 D)	047	(BA1:4 A)
0040	(CA:1 D)	056	(EM1:1 B)
0041	(CA:1 D)	064	(EM1:1 D)
0045	(EM2:3 C)	066	(EM1:1 D)
0046	(EM2:3 C)	072	(EM1:1 B)
0050	(CM:1 B)	077	(BA:3 D)
0051	(CM:1 B)	084	(DQ1:0 D)
0056	(BM:2 C)	088	(DQ1:0 D)
0057	(BK:4 D)	0107	(EN1:1 B)
0061	(DQ1:1 D)	0108	(EN1:1 B)
0062	(DQ1:1 D)	0109	(EN1:1 B)
0064	(DQ1:2 D)	0123	(IN:3 B)
0065	(DQ1:2 D)	0127	(IN:3 C)
0066	(DQ1:2 D)	0128	(IN:3 C)
0067	(DQ1:2 C)	0129	(IN:3 C)
0068	(DQ1:2 C)	0130	(IN:3 C)
0076	(DQ1:2 D)	0147	(EM1:2 D)

0148	(EM1:2 D)	0405	(BM:4 C)
0149	(EM1:0 D)	0411	(XC:1 C)
0150	(EM1:0 D)	0412	(XC:1 C)
0151	(CA:4 C)	0413	(NE:2 C)
0160	(EN1:1 B)	0414	(NE:2 C)
0161	(EN1:1 B)	0415	(EM2:0 B)
0162	(EN1:1 B)	0416	(EM2:0 B)
0163	(EN3:0 C)	0460	(NB:0 C)
0164	(EN3:0 C)	0461	(NB:0 C)
0165	(EN3:0 C)	0464	(CM:1 C)
0166	(EN3:0 C)	0465	(CM:1 C)
0167	(EN3:0 C)	0810	(DQ1:0 D)
0168	(EN3:0 C)	0811	(DQ1:0 D)
0169	(EN3:0 C)	0855	(CK:2 B)
0170	(EN3:1 C)	0858	(CM:1 C)
0171	(EN3:1 C)	0859	(CM:1 C)
0172	(EN3:1 C)	0860	(CK:1 B)
0173	(EN3:1 C)	0861	(CA:1 C)
0174	(EN3:1 C)	0862	(BA:1 B)
0206	(BT:1 C)	0863	(CK:1 B)
0207	(BT:1 C)	0865	(CK:4 B)
0374	(IM:1 C)	0866	(CK:4 B)
0375	(GQ:4 B)	0867	(BK:2 C)
0376	(EM2:1 C)	0868	(BK:2 C)
0377	(EM2:1 C)	0869	(CK:3 B)
0380	(EM2:2 C)	0870	(CK:3 B)
0384	(NE:3 C)	0873	(CM:2 C)
0403	(IN:2 D)	0876	(CK:3 B)

1	(AA:2 C)	72	(BK:2 B)
2	(AA:1 A)	73	(BK:2 B)
3	(GD:4 C)	74	(BK:2 B)
4	(IF1:3 B)	76	(BK:1 C)
7	(NA: 3 B)	81	(CA:4 C)
11	(IU1: 2 B)	82	(CA:4 B)
12	(BA:3 B)	83	(KA:0 E)
20	(IU1:2 B)	86	(BK:2 B)
22	(AI:0 A)	87	(BK:1 B)
24	(AI:1 D)	88	(BA:4 B)
25	(AN:1 B)	89	(NB:2 C)
30	(GF:4 A)	119	(GH1:1 C)
31	(AC:0 E)	123	(BA:4 D)
35	(GQ:2 B)	141	(BA:1 C)
37	(GQ:1 D)	142	(BM:1 C)
38	(GQ:0 B)	144	(IR:1 B)
39	(IN:3 C)	147	(AA:2 C)
45	(GH1:2 B)	155	(IR:0 D)
46	(IR:1 D)	156	(IO:3 B)
47	(IQ:3 A)	158	(IO:4 B)
48	(IR1:1 C)	169	(AB:1 A)
59	(BA:1 C)	201	AA:0 C)
60	(GB2:0 C)	202	(GQ:2 B)
62	(GB2:1 A)	203	(BM:1 A)
63	(GB2:0 C)	205	(BA:0 D)
64	(GA2:2 B)	208	(NA:1 C)
69	(GB2:0 B)	211	(AH: 2 D)
71	(BK:2 B)	214	(AG:1 B)

215	(IF1:0 B)	323	(GC2:3 C)
229	(AL:1 C)	324	(GD:3 C)
238	(IF1:4 A)	352	(BK:0 C)
243	(KA:0 B)	370	(GB2:2 B)
247	(KA:1 B)	373	(GA1:1 B)
260	(AL:1 C)	386	(BA:1 D)
262	(IN:1 B)	388	(GQ:3 D)
263	(IM:1 B)	391	(GA2:0 C)
268	(AA:0 D)	392	(GA2:0 C)
270	(DO:2 C)	413	(HJ:3 D)
274	(AH:4 C)	414	(HJ:3 D)
275	(AI:4 C)	428	(IF1:1 D)
291	(AL:3 D)	429	(IF1:2 C)
292	(AL:3 D)	430	(IF1:1 D)
299	(AL:3 D)	431	(IF1:2 C)
301	(GQ:1 D)	432	(IF1:1 D)
302	(GQ:1 D)	436	(IM:1 B)
303	(GQ:2 D)	437	(GC5:1 C)
304	(GA1:1 D)	444	(IU:2 B)
305	(GA1:2 D)	447	(IU:3 B)
307	(GB2:2 D)	448	(IU:2 B)
308	(GB2:2 D)	451	(IU:3 B)
310	(GQ1:2 B)	452	(AK:4 C)
311	(GQ1:1 D)	456	(AG:3 D)
312	(GQ1:1 C)	462	(HY:3 D)
313	(GA2:2 A)	463	(HY:0 B)
321	(GC2:3 B)	469	(IQ:2 C)
322	(GC2:3 B)	470	(IQ:2 C)

476	(IN:1 C)	651	(BK:4 B)
484	(IM:1 B)	661	(BA:2 D)
489	(HY:0 D)	662	(GB1:3 B)
501	(GM:2 C)	663	(GB1:3 B)
502	(GM:2 C)	665	(GB1:1 C)
503	(GM:2 D)	666	(GH1:4 B)
504	(GM:2 C)	667	(GA2:4 B)
506	(GQ:4 B)	668	(GA2:4 B)
507	(GM:2 C)	669	(GA1:3 C)
508	(GM:4 A)	670	(AJ:3 C)
509	(GM:2 D)	709	(BK:1 D)
510	(GQ:1 B)	710	(BK:0 D)
522	(AL:0 C)	718	(BK:0 D)
539	(EM1:3 D)	719	(AK:1 C)
540	(EM1:3 D)	720	(BK:1 C)
556	(EM1:4 D)	775	(BK:3 B)
557	(EM1:4 D)	808	(AJ:1 D)
602	(GB1:1 C)	813	(FA:0 B)
603	(GB1:2 D)	814	(FA:0 B)
604	(GQ:2 D)	815	(FA:0 B)
605	(GQ:2 D)	816	(FA1:0 B)
606	(AH:3 C)	824	(CU20:3 D)
607	(BK:4 C)	825	(BM:2 C)
608	(GD:2 C)	842	(NB:2 B)
618	(NB:4 C)	846	(EM2:3 A)
632	(GA1:0 D)	851	(GF1:2 B)
634	(GA1:0 D)	867	(BK:3 C)
635	(GD:2 D)	879	(FA1:2 D)

880	(FA1:2 C)	1033	(DQ1:3 D)
881	(FA1:2 C)	1034	(DQ1:4 D)
899	(FA1:1 C)	1035	(DQ1:4 D)
984	(YC:3 B)	1119	(IN:3 D)
985	(YC:3 A)	1124	(EM2:1 B)
986	(YC:3 B)	1140	(BA:4 B)
987	(YC:3 A)	1141	(BA:4 B)
988	(YC:3 B)	1149	(AC:2 B)
989	(YC:4 A)	1150	(AC:2 D)
990	(YC:4 B)	1155	(AL:1 B)
991	(YC:4 A)	1157	(IN:2 B)
992	(YC:4 B)	1159	(IM:1 C)
993	(YC:4 A)	1171	(CK:2 B)
994	(YC:4 A)	1172	(CM:2 C)
995	(YC:3 D)	2000	(IF1:4 B)
996	(YC:3 C)	2014	(AH:0 D)
1012	(EM1:4 D)	2025	(EM1:3 B)
1018	(GD:1 A)	2057	(NB:4 D)
1025	(BA:0 B)	2069	(DQ1:2 D)
1026	(BA:4 A)	2070	(DQ1:3 D)
1029	(DQ1:3 D)	2071	(DQ1:4 D)
1036	(DQ1:1 D)	2072	(DQ1:4 D)
1037	(DQ1:1 D)	2093	(GD:1 B)
1038	(DQ1:2 D)	2117	(AC:2 A)
1045	(BA:3 D)	2120	(NB:4 A)
1030	(DQ1:3 D)	2121	(AJ:2 D)
1031	(DQ1:3 D)	2123	(BA1:4 D)
1032	(DQ1:3 D)	2124	(BA:4 D)

2125	(AL:4 C)	2305	(AA:1 B)
2126	(AD:4 C)	2306	(AE:2 C)
2128	(GA2:4 D)	2307	(BK:2 D)
2132	(AE:1 C)	2309	(AK:2 C)
2222	(AA:2 B)	2310	(AH:2 D)
2223	(AC:4 A)	2311	(AL:0 C)
2225	(DQ1:2 A)	2312	(AK:1 C)
2226	(AB:3 C)	2313	(AK:2 C)
2227	(AK:0 C)	2315	(AG:4 D)
2228	(AK:0 C)	2316	(AK:3 C)
2229	(AN:2 D)	2317	(AI:2 C)
2230	(AK:3 C)	2318	(IN:2 B)
2231	(AG:3 D)	2323	(AL:4 C)
2232	(AG:1 D)	2325	(AJ:4 D)
2233	(AK:4 C)	2327	(BT:1 B)
2234	(AI:4 C)	2328	(AE:3 C)
2235	(CM:0 B)	2329	(AL:2 D)
2239	(CK:3 B)	2330	(AL:2 D)
2240	(CK:2 B)	2331	(IR:3 B)
2241	(CK:1 B)	2335	(IR1:2 B)
2292	(AL:2 D)	2336	(IR:2 B)
2294	(CM:1 C)	2337	(IR:3 B)
2295	(CK:1 B)	2338	(IR:4 B)
2296	(AF:0 C)	2983	(AA:2 B)
2297	(CM:2 B)	2985	(AL:4 C)
2302	(IR:3 B)	2986	(HJ:1 B)
2303	(IN:3 D)	2987	(AL:4 C)
2304	(AK:3 C)	2988	(AL:2 D)

2989	(CK:1 B)	5066	(AC:2 A)
2991	(AJ:1 D)	5067	(AC:2 B)
4000	(IR:1 B)	5070	(AC:2 B)
4002	(HJ:0 D)	5072	(BA:0 D)
4003	(HJ:0 D)	5073	(BA:0 D)
4004	(HJ:O D)	5074	(BA1:2 B)
4014	(IQ:1 C)	5075	(BA:3 D)
4015	(IQ:1 C)	5077	(EM1:1 B)
4060	(BA:0 A)	5079	(EM1:1 B)
4306	(AN:3 D)	5080	(EM1:2 D)
4308	(AG:1 D)	5081	(EM1:0 D)
4309	(AG:2 D)	5082	(EM1:1 D)
4310	(AG:3 D)	5083	(EM1:0 D)
4313	(IM:2 D)	5084	(EM1:0 D)
4314	(IM:2 D)	5085	(EM1:3 B)
4315	(IM:2 D)	5086	(EM2:3 A)
4316	(IM:1 D)	5089	(EM2:4 C)
4317	(IM:1 D)	5091	(EM2:2 C)
4318	(IM:1 D)	5092	(EM2:2 C)
4320	(BA:0 D)	5093	(EM2:2 C)
4321	(BA:0 D)	5094	(GM:1 C)
4322	(GQ:4 D)	5095	(GM:1 C)
4460	(IU1:1 B)	5098	(AJ:0 D)
4467	(BK:2 C)	5100	(IM:0 B)
5028	(BA:1 D)	5101	(CU32:2 C)
5031	(DQ1:1 B)	5102	(CU32:3 C)
5048	(EM2:1 B)	5108	(BM:3 C)
5050	(EM2:1 C)	5109	(DQ1:4 B)

8020	(BA:4 B)	8129	(DU:1 C)
8040	(BK:3 D)	8131	(IO:2 B)
8067	(BA:1 C)	8132	(IO:2 D)
8077	(FA1:1 D)	8133	(IO:2 B)
8083	(BK:3 B)	8134	(IO:4 B)
8085	(NB:3 C)	8136	(IO:4 D)
8093	(BA:1 D)	8137	(NB:1 B)
8095	(BA:0 A)	8138	(NB:1 C)
8098	(BK:4 C)	8140	(FA1:2 D)
8100	(IO:0 D)	8142	(FA1:2 D)
8104	(IO:0 B)	8143	(FA:3 C)
8108	(IO:0 B)	8144	(FA:3 C)
8109	(KA:1 C)	8145	(FA:3 C)
8110	(BA:0 D)	8146	(FA:3 C)
8112	(IO:4 B)	8147	(FA:3 C)
8113	(IO:3 B)	8158	(FA1:1 D)
8114	(IO:1 A)	8159	(FA:0 D)
8115	(IO:1 D)	8160	(FA:1 D)
8116	(BK:4 B)	8161	(IO:2 D)
8118	(KA:1 D)	8169	(NA:0 C)
8119	(BA:2 D)	8170	(IO:2 D)
8120	(BA:2 D)	8172	(IO:2 B)
8121	(BA:2 D)	8185	(DO:3 C)
8122	(IO:0 B)	8186	(DO:3 C)
8123	(IO:0 B)	8187	(DO:3 C)
8124	(IO:2 B)	8188	(DO:3 C)
8125	(IO:2 B)	8189	(DO:3 C)
8128	(EM1:2 B)	8190	(DO:3 C)

8227	(BA1:3 B)
119/4322	(GH1:2 C)
203/2296	(BM:1 A)
444/448	(IU1:2 B)
447/451	(IU1:3 B)

List of components

A03	Instrument cluster, MV50 (BK:2 C)
A06L	El. adjustable seat (IA:2 C) (1007)
A06R	El. adjustable seat (IA:0 C) (1007)
A07V12	Radio, 12V (IU1:2 B) (1000)
A11	Control unit, door lock (IM:1 C) (1006)
A13A_M	Control unit, TECU (Automatic transmission) (DO:1 C) (1057)
A14	Control unit, EMS (Engine Management System) (CU1:2 C / CU2:2 C / CU10:2 C / CU20:2 C) (1030)
A16	Control unit, ECS (Electronic Controlled air Suspension) (FA:1 C / FA1:2 C) (1000)
A17	Control unit, VECU (Vehicle ECU) (BA1:3 A) (1000)
A19B	Control unit, GECU (gear selector ECU) (DQ1:3 B) (1000)
A20	Control unit, Immobiliser (IM:3 D) (1000)
A21	Control unit, EBS (Electronic Brake System) (EM1:2 C/EM2:2 B) (1000)
A28B	Control unit, ADR battery main switch (AC:1 D) (1434/1460)
A31	Control unit, burglar alarm (IN:2 C) (1006)
A32	Control unit, parking heater, Air (HJ:2 D) (1007)
A33	Tachograph (BM:2 B) (1006)
A43	Component group engine, (contains B32 and Y35) (CU2:0 B / CU20:0 B) (1030)
A57	Allison ECU more 4 TCM (DQ1:2 C) (1057)
A63	Control unit, APM (air power management) (FC:1 C) (1435/1460)
A64	Control unit, Turn indicator control (GQ:2 C) (1000)
A71	Engine running time counter (KA:3 C) (1007)
A72	Component group, sensors, Allison transmission (DQ1:2 D) (1057)
A73	Citizen Band unit (IR:2 C) (1006)
A76D	Cigarette lighter module, Distribution (IA:3 C)
A94_B	FMS Gateway, Fleet Management System (BT:1 B) (1000)
A95_M	GSECU, gear selector gateway (DO:3 C) (1000)
A101	Pack office (IR:3 D) (1007)
A117M	TCM component group (EM2:1 D) (1040/1063)
A174	ACM2.0 (CK:1 B / CM:1 B) (1057)
A194	Control unit, TGW2 (Telematic Gateway 2) (BV2:1 B) (1000)
B03	Sensor, footbrake valve (EM1:1 A) (1501)
B04	Sensor, engine speed, crankshaft (CU2:2 B / CU20:2 B) (1030)
B05	Sensor, engine speed, camshaft (CU2:3 B / CU20:3 B) (1030)
B06	Sensor, air pressure, air tank (CK:3 B) (1030)
B07	Sensor, fuel level (BK:1 D) (1040)
B08	Sensor gearbox speed input (DO:1 E) (1057/1494)
B09	Fuel Quality sensor (CK:4 D) (1057)
B10	Fluid level sensing(DO:1 E) (1057/1494)
B12	Sensor, tachograph / speedometer (BM:2 E) (1040/1057/1494)
B13B	Sensor, wheel speed, lhs. 1:st front axle (EN1:2 D) (1040)

B14B	Sensor, wheel speed, rhs. 1:st front axle (EN1:2 D) (1040)
B25	Sensor, accelerator pedal (BA:4 D) (1000)
B26B	Clutch actuator (DO:2 E) (1057/1494)(
B28	Sensor, chassi level, front axle (FA1:2 E) (1040)
B29	Sensor, chassis level, lhs. rear axle (FA:1 E / FA1:2 E) (1040/1063)
B30	Sensor, chassis level, rhs. rear axle (FA:2 E / FA1: 2 E) (1040/1063)
B34A	Travel sensor gate (shift) (DO:2 E) (1057/1494)
B34B	Travel sensor gate (select) (DO:1 E) (1057/1494)
B37	Sensor, boost pressure and boost temperature (CU2:1 B / CU20:1 B) (1030)
B40B	Sensor, brake lining wear indicator, lhs. 1:st front axle, (EN1:1 D) (1040)
B41B	Sensor, brake lining wear indicator, rhs. 1:st front axle (EN1:1 D) (1040)
B49	Sensor, steering angle (EM2:1 A) (1000)
B50	Sensor, yaw-rate (EM2:0 A) (1040/1435/1460)
B51	Sensor, fuel pressure (CU20:3 B) (1030)
B56	Sensor, air pressure, suspension bellows, front axle (FA1:1 D) (1040)
B57	Sensor, air pressure, suspension bellows, lhs. rear (FA:0 D / FA1:1 D) (1040/1063)
B58	Sensor, air pressure, suspension bellows, rhs. rear (FA:1 D / FA1:2 D) (1040/1063)
B63	Microphone, (handsfree) (IU1:2 B) (1006)
B66	Sensor, temperature EGR (CU1:0 B / CU10:0 B) (1030)
B81	Sensor, water in fuel (CA:4 B) (1435/1460)
B87	Sensor, turbo speed (CU2:3 B / CU20:3 B) (1030)
B88	Air valve, Urea temp sensor (CK:2 D) (1057)
B90	Transmitter, burglar alarm (IN:3 A) (1006)
B91	Receiver, burglar alarm (IN:3 A) (1006)
B96A	Sensor, NOx (CM:3 D) (1057)
B96B	Sensor, NOx (CM:3 D) (1057)
B105A	Sensor, Climate unit compressor pressure (HY:1 D) (1501)
B107DS	Sensor, Door open / closed (GH1:1 D) (1000)
B107PS	Sensor, Door open / closed (GH1:1 D) (1000)
B115	Sensor, DPF pressure (CM:1 D) (1057)
B118	Sensor, oil pressure (CU1:1 B / CU10:1 B) (1030)
B119	Sensor, oil level / temp (CU2:2 B / CU20:2 B) (1030)
B125	Urea Pressure sensor (CK:3 D) (1057)
B142	Sensor, urea level and temperature (CK:3 C) (1057)
B146L1	Sensor, Disc brake pad, rear L1 (BK:3 D) (1040/1063)
B146R1	Sensor, Disc brake pad, rear R1 (BK:3 E) (1040/1063)
B147L1	Sensor, Disc brake pad, front L1 (BK:3 D) (1040)
B147R1	Sensor, Disc brake pad, front R1 (BK:3 D) (1040)
B149	Sensor, pressure trailer brake starting (EM2:3 D)
B160B	Sensor, air filter restriction (BK:1 D)
B161L	Sensor, Door open / closed rear left (4Doors Cab) (GH3V: 2D) (1007)
B161R	Sensor, Door open / closed rear right (4Doors Cab) (GH3V: 2D) (1007/1083)
B164L	Loudspeaker, left (IU1:2 A) (1006)

B164R	Loudspeaker, right (IU1:3 A) (1006)
B166	Sensor, EGR differential pressure (CU2:1 B / CU20:1 B) (1030)
B178	Sensor, brake lining wear indicator, lhs, driver rear axle (EN3:3 D) (1040/1063)
B179	Sensor, brake lining wear indicator, rhs, driver rear axle (EN3:3 D) (1040/1063)
B180	Sensor, 4x2 vehicle and 2nd driven rear axle 6x4 vehicle (EN3:4 D) (1040/1063)
B181	Sensor, 4x2 vehicle and 2nd driven rear axle 6x4 vehicle (EN3:4 D) (1040/1063)
B187	Sensor, after treatment fuel pressure (CU2:2 B / CU20:2 B) (1030)
B213	Sensor, pressure, butterfly valve back pressure (CU1:2 B / CU10:2 B) (1030)
B222	Sensor, high rail pressure (CU2:2 B / CU20:2 B) (1030)
B231	Sensor, Coolant high temp (CU1:0 B / CU10:0 B) (1030)
B257	Sensor, Temp after DPF (differential pressure sensor) (CM:1 D) (1057)
B258	Sensor, cat temp downstream (CM:1 D) (1057)
B259	Sensor, cat temp upstream. (CM:1 D) (1057)
B330	Sensor, hydraulic pressure, ZF 6AS (DO:1 E) (1057/1494)
E11LC	Lamp, side marker light, left center (GC4:1 C) (1063/1077)
E11LF	Lamp, side marker light, left front (GC4:0 C) (1063/1077)
E11LR	Lamp, side marker light, left rear (GC4:1 C) (1063/1077)
E11LR4D	Lamp, side marker light, left rear under instep (4 Doors Cab) (GC4:1 C)(1040)
E11LW	Lamp, side marker light, left wheel (GC4:1 C) (1063/1077)
E11RC	Lamp, side marker light, right center (GC4:3 C) (1063/1077)
E11RF	Lamp, side marker light, right front (GC4:2 C) (1063/1077)
E11RR	Lamp, side marker light, right rear (GC4:3 C) (1063/1077)
E11LR4D	Lamp, side marker light, right rear, under instep (4 Doors Cab) (GC4:3 C)
E11RR4D	Lamp, side marker light, right rear, under instep (4 Doors Cab) (GC4:3 C)
E11RW	Lamp, side marker light, right wheel (GC4:3 C) (1063/1077)
E12L	Lamp, roof position light, left (GC2:2 B) (1006)
E12LCC	Lamp, roof position light, left, carry car (GC2:2 B) (1006)
E12R	Lamp, roof position light, right (GC2:1 B) (1006)
E12RCC	Lamp, roof position light, right carry car (GC2:2 B) (1006)
E13LS	Lamp, direction indicator, left side (GC2:0 B) (1040)
E13RS	Lamp, direction indicator, right side (GC2:1 D) (1040)
E14L	Lamp, beacon warning lamp, left side (GC2:3 D)
E14R	Lamp, beacon warning lamp, right side (GC2:4 D)
E16DS	Lamp, instep light (GH1:2 C) (1083)
E16PS	Lamp, instep light (GH1:2 C) (1083)
E27ML	Lights, rear lights, left (GC7:2 D) (1040/1063)
E27MR	Lights, rear lights, right (GC7:3 D) (1040/1063)
E39	Lamp, licence plate illumination (GC7:1 D) (1040/1063)
E51L	Lamp, interior light (GH1:0 B) (1006)
E51R	Lamp, interior light (GH1:0 B) (1006)
E52L	Lamp, roof (GH1:3 B) (1006)

E52R	Lamp, roof (GH1:3 B) (1006)
E70L	Simple lamp, Interior light, rear left (4 Doors Cab) (GH3V:0 B) (1006)
E70R	Simple lamp, Interior light, rear right (4 Doors Cab) (GH3V:0 B) (1006)
E71L	Lamp, Instep light, rear left (4 Doors Cab) (GH3V:3 C) (1083)
E71R	Lamp, Instep light, rear right (4 Doors Cab) (GH3V:3 C) (1083)
E95L	Lamp, fog lamp, left (GC5:3 D) (1447)
E95R	Lamp, fog lamp, right (GC5:4 D) (1447
E97L	Headlamps, FE, facelift, left (GC5:1 D) (1447)
E97R	Headlamps, FE, facelift, right (GC5:2 D) (1447)
G01A	Battery 1 (AA:0 D / AC:0 D)
G01B	Battery 2 (AA:0 D / AC:0 D)
G02A	Alternator (AB:2 D / AD:2 D) (1030)
H01	Horn,air operated (GQ1:4 D) (1040/1435/1447/1460)
H06	Siren, Burglar alarm (IN:3 D) (1040)
H10	Horn, electric (GC7:4 D) (1040/1063)
M01	Motor, windscreen wiper (GM:3 D) (1501)
M02	Motor, windscreen washer pump (GM:0 B) (1447)
M03	Motor, headlamp high pressure washer pump (GM:1 D) (1447)
M04	Motor, starter motor (AB:0 D / AD:0 D) (1030)
M06DS	Motor, window winder driver side (IQ:3 D) (1083)
M06PS	Motor, window winder passenger side (IQ:2 E) (1083)
M09DS	Motor, door lock (IM:1 D) (1083)
M09PS	Motor, door lock (IM:2 D) (1083)
M09RL	Motor, door lock (IMV:1 D) (1083)
M09RR	Motor, door lock (IMV:2 D) (1083)
M10L	Motor, roof hatch, left L.H.D (IQ:0 D) (1006)
M10R	Motor, roof hatch, right R.H.D(IQ:1 D) (1006)
M19	Motor, EGR control valve (CU1:2 D / CU10:2 D) (1030)
M27L	Motor, rear left window winder (4 Doors Cab) (IQV:1 D) (1083)
M27R	Motor, rear right window winder (4 Doors Cab) (IQV:2 D) (1083)
M49	Motor, urea dosing system(CK:1 D) (1057)
R01	Heater, engine preheat (AB:0 B / AD:0 B) (1030)
R02D	Heater, rear-view mirror (IF1:2 C / IF1:2 D / BK:1 E) (1083)
R10	Heater, fuel pre-filter (CU32:4 C) (1435/1460)
R15	Windscreen heater (IF1:4 C) (1501)
R22	Resistor, alternator control (AB:3 C / AD:3 C)
R23	heater, hose heater, urea pump - urea nozzle (CK:1 D) (1057)
R50	Heater, hose heater urea tank - urea pum-pheater, hose heater (CK:0 D) (1057)
S02	Stalk switch, full- / dipped beam, direction indicator (GA1:0 B / GB1:1 B / GB2:0 A / GB2:2 A / GQ:1 B / GQ1:3 B) (1000)
S04	Switch unit, climate fan, selector type (HY:1 B) (1000)
S06	Stalk switch, windscreen wiper, selector type (GM:3 B) (1000)
S08B	Switch, differential gear lock, rear wheels (DU:2 B) (1000)
S09A	Switch, differential gear locks, inter-axles and rear wheels, selector type (DU:1 B) (1000)

S15	Switch, starting (AB:2 B / AD:2 B) (1000)
S21A	Switch, parking heater (HJ:1 B / HJ1:1 B) (1000)
S22A	Switch, levelling control, headlights (GC5:1 B) (1000)
S23	Switch, roof hatch, selector type (IQ:1 B) (1006)
S24	Stalk switch, retarder, selector type (BA:3 D) (1000)
S28A	Switch, power take off 1 (DQ:3 C) (1000)
S30	Switch unit, multi-function display (BK:2 A) (1000)
S31A	Switch, ASR request (EM2:3 A) (1000)
S32A	Switch, Hill start aid (EM2:3 A) (1000)
S38	Switch, ADR, emergency switch, cab (AC:2 B) (1000)
S39	Switch, ADR, emergency switch, exterior (AC:2 B) (1435/1460)
S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040/1063)
S49	Position switch, reverse lamps, NO (GD:0 C) (1057/1494)
S53	Position switch, transfer box indication, NO. (DUV:3 D) (1040)
S54	Position switch, differential gear lock, front-wheels, NO. (DUV:3 D) (1040)
S58	Position switch, clutch pedal, NO (GD:4 B) (1000)
S67B	Switch unit, ECS (electronic controlled susp.), max rear air suspension (FA:2 E / FA1:3 E) (1000)
S73	Switch, acoustic reverse warning (GD:2 D) (1006)
S75	Switch, beacon warning light (GC2:3 B) (1000)
S90	Position switch, Neutral (BA:3 B) (1057/149)
S95	Switch, Panic alarm (IN:2 B) (1000)
S96	Switch, Reduced set, burglar alarm (IN:2 B) (1006)
S102	Switch, auto / manu brake blending (BA:2 B) (1000)
S103	Switch, heated mirror, mirror adjustment (IF1:0 D) (1083)
S105	Switch, hazard warning light (GQ:2 B)
S106DS	Switch, passenger window winder (IQ:2 B) (1083)
S106PS	Switch, passenger window winder (IQ:2 D) (1083)
S107	Switch, driver window winder (IQ:3 C) (1083)
S112	Switch, engine stop (CU2:4 C / CU20:4 C) (1030)
S115	Switch, door lock (IM:2 B) (1006)
S123	Switch, mirror defrost (IF1:0 C) (1083)
S124C	Position switch, PTO 1 feedback (DQ:1 C) (1057/1494)
S124G	Position switch, PTO gearbox (DQ:2 C) (1057/1494)
S124J	Position switch, PTO 1 feedback (Allison) (DQ:1 C) (1057/1494)
S125	Switch, body builder, ridge lighting (NB:4 B) (1000)
S126	Switch, body builder, machine on (NB:3 B) (1000)
S131	Switch, difficult terrain, increase engine RPM (BA:0 D) (1000)
S133	Switch, level control, rear axle suspension (FA:4 D) (1000)
S134	Switch, level memory, rear axle suspension (FA:4 E) (1000)
S135	Switch, present level, rear axle suspension (FA:4 C) (1000)
S137A	Switch, PTO 2 request (DQ:4 C) (1000)

S146	Switch, R/+ and S/- (BA1:4 C) (1000)
S147B	Switch, RPM regulation (BA1:2 C) (1000)
S151	Rheostat, temperature control (HJ:0 C/ HJ1:0 C) (1000)
S156A_M	Switch, gear shift selector (DO:3 D) (1000)
S167	Switch, body builder disposal (NB:0 A) (1000)
S182L	Switch,rear left window winder (4 Doors Cab) (IQV:1 C) (1083)
S182R	Switch,rear right window winder (4 Doors Cab) (IQV:2 C) (1083)
S211	Switch, DPF regeneration (BK:2 D) (1000)
S212	Switch, tail lift (NB:0 A) (1000)
S290	Switch, single H (CU2:3 B) (1030/1057/ 1494)
U03_1C	Modulator, EBS, rear axle (EN3:3 B) (1040/1063)
U06R10	Voltage converter 10A (IR:1 B) (1006)
U06R15	Voltage converter 15A (IR:1 D) (1006)
U06R15A	Voltage converter 15A (IR1:2 C) (1006)
U11	Modulator, EBS, front axle (EN1:1 B) (1040/1435/1460)
V02	Diode (NB:3 C)
V03	Diode (GH1:1 C)
V07	Diode, Alarm indicator (IN:3 D) (1006)
V08	Diode (AN:2 B)
V09	Diode (AD:3 C)
V10	Diode (AD:4 C)
V11	Diode (BA:3 B)
V12	Diode (IM:3 B)
V15	Diode (KA:1 D)
V17	Diode (GH1:1 C / GH3V:1 B)
V18	Diode (NA:0 B)
V30	Diode (GA1:3 B)
W01	Antenna, radio (IU:4 B) (1000)
W02	Antenna, immobiliser (IM:4 C) (1000)
W14	GPS satellite antenna (BV2:2 A) (1000)
X02	Tractor and rigid trailer connection, ABS / EBS (GF:0 B) (1040/1063)
X03	Trailer connection, 15–pole unit (GF:3 C) (1040/1063)
X22D	Socket, +24V main power supply, distri-bution (IR:3 B) (1000)
X23	Socket, +24V accessories power supply (IR:0 B)
X24D	Socket, +24V accessories power supply, distribution (IR1:2 D) (1000)
X26	Connector, fleet management (BT:1 D) (1000)
X35	Clockspring (BA1:3 D / GQ1:1 B) (1000)
X43	Plug, OBD (GF1:1 B) (1000/1006)
X44	Socket +24V, cubic storage (IR:4 C) (1007)
X45	Second fueltank ground connection (BK:0 D)
X53	Plug, Allison diagnostics (DQ1:2 B) (1000)
X56R	Plug, ABS 24V, Rigid (GK:1 C)
X56T	Plug, ABS 24V, Tractor (GK:0 D)
X58R	Trailer connection, Plug 24V/12N, Rigid (GK:4 C)
X59T	Trailer connection, Plug 24V/24N, Tractor (GK:4 E)
X62	Tail lift preparation (NC:3 C) (1040/1063)
X66	Connector, USB, Audio (IU1:2 E) (1000)

X67	Connector, AUX, Audio (IU1:1 E) (1000)
X69	Plug, ZF diagnostics (DO:1 B)
XHEE2	Power connection(AB:0 B / AD:0 B) (1030/1435/1460)
Y02B	Solenoid valve, differential lock, rear wheels (DU:1 C) (1040/1063)
Y09B	Solenoid valve, front wheels diff lock (DUV:2 C) (1040)
Y18G	Solenoid valve, PTO (Power Take Off) (DQ:1 C) (1057/1435/1460)
Y18X	Solenoid valve, PTO allison gear box (DQ:1 C)
Y18L1	Solenoid valve, PTO (Power Take Off) (DQ:2 C) (1057/1494)
Y19B	Solenoid valve, low range gear (DUV:1 C) (1040)
Y20	Solenoid valve, high range (DUV:1 C) (1040)
Y25	Solenoid valve unit, level control, air suspension (FA:0 B / FA1:1 B) (1040/1063)
Y32	Fuel dosing pump, parking heater (HJ:4 D/HJ1:4 D) (1040)
Y33A	Unit Injectors (CU2:1 E / CU20:1 E) (1030)
Y33B	Unit Injectors (CU2:1 E / CU20:2 E) (1030)
Y33C	Unit Injectors (CU2:1 E / CU20:2 E) (1030)
Y33D	Unit Injectors (CU2:1 E / CU20:1 E) (1030)
Y33E	Unit Injectors (CU2:1 E) (1030)
Y33F	Unit Injectors (CU2:1 E) (1030)
Y35	Solenoid valve, engine cooling fan (CU1:1 D)
Y37B	Solenoid valve unit, AVU (CA:1 B) (1030/1057/1494)
Y40A	Solenoid valve unit, front axle, air suspension (FA1:0 B) (1040)
Y40R	Solenoid valve unit, rear axle, air suspension (FA:0 B) (1040/1063)
Y42	Clutch, magnetic, air conditioning compressor (HY:4 D) (1030)
Y54	VGT (CU1:3 D / CU10:3 D) (1030)
Y58B	Solenoid valve, ABS, left (EM1:3 E) (1030/1040)
Y59B	Solenoid valve, ABS, right (EM1:4 D) (1040)
Y81	Solenoid valve, urea heating tank (CK:1 D) (1057)
Y103	Safety valve, fuel system, 7th injector HS (CU1:2 D / CU10:2 D) (1030)
Y104	Solenoid valve, transfer box diff lock (DUV:0 C) (1040)
Y114	Trottle, engine air mass regulation (CU1:2 B / CU10:2 B) (1030)
Y142	M-PROP HP PUMP (CU2:1 E / CU20:3 E) (1030)
Y143	PRV (CU2:1 E / CU20:3 B) (1030)
Y144A	Jacobs valve 1 (CU1:3 B) (1030)
Y144B	Jacobs valve 2 (CU1:3 B) (1030)
Y146	Valves, single H GIV/RAV (gate interlock / range) (CU1:1 D) (1030/1057/1494)

Abbreviations

ABS	Antilock brake system
ACU	Alarm control unit
ADR	ADR adaptation
AL306	Allison transmission 3000 series 6 speed
APM	Air pressure management
ASR	Anti slip regulation
AT2412D	Automated transmission 2400 Nm 12 speed
AUS	Australia
BBM	Body builder module
BBOX-L	Battery box left hand side
BBOX-R	Battery box right hand side
CLU	Central locking unit
DS	Driver side
EBS	Electronic brake system
ECS	Electronic controlled air suspension
ECU	Electronic control unit
EJB	Electrical junction box
ELCE-CK	Electrical complete kit for body builder
EM-EC01	European community 2001 level EURO3
EM-EC06	European community 2006 level EURO4
EMS	Engine management system
ENG-VE7	Volvo engine 7 litre
EPG	Exhaust pressure governor
ESS	Energy storage system
FMS	Fleet management system
FSS-AIR	Air suspension, front
FSS-LEAF	Leaf suspension, front
GSECU	Gear selector gateway
HIOM	Hybrid input output module
HPCU	Hybrid powertrain control unit
L	Left
LCM	Light control module
L1H1	Short cab
L2H1	Sleeper cab
L3H1	Long sleeper cab
LF	Left front
LHD	Left hand drive
LHS	Left hand side
LOCK-ALL	Central door lock and cut off electricity of truck
LR	Left rear
OBD	On board diagnostics
PEC	Power electronic converter
PS	Passenger side
PTO	Power take off
PWM	Pulse width modulated
R	Right
RASEC	Rear axle steering-system, electronic control
RF	Right front
RHD	Right hand drive
RHS	Right hand side
RIGID	Platform or tipper truck
RPM	Revolutions per minute
RR	Right rear
STO1309	Gearbox variant, 9 speed
STWPOS-L	Steering wheel position left hand side
STWPOS-R	Steering wheel position right hand side
SUSPL-EC	Air suspension, electronic control system levelling device
TECU	Transmission electronic control unit
TRACTOR	Semi-trailer tractor
TTYPE-R	Transport type, refuse
UADR	Without ADR adaptation
VECU	Vehicle electronic control unit
ZTO1006	Gearbox variant, 6 speed
ZTO1109	Gearbox variant, 9 speed

Cable colour code

Cable colour code (engine and transmission)

BL	Blue
BN	Brown
GN	Green
GR	Grey
OR	Orange
P	Pink
R	Red
SB	Black
VO	Violet
W	White
Y	Yellow

Note: If a wire have two colours, this is written out like the following example: YE/RD = Yellow/Red.

Feedback

One of our objectives is that workshop personnel should have access to correct and appropriate service manuals where it concerns fault tracing, repairs and maintenance of Volvo vehicles.
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