

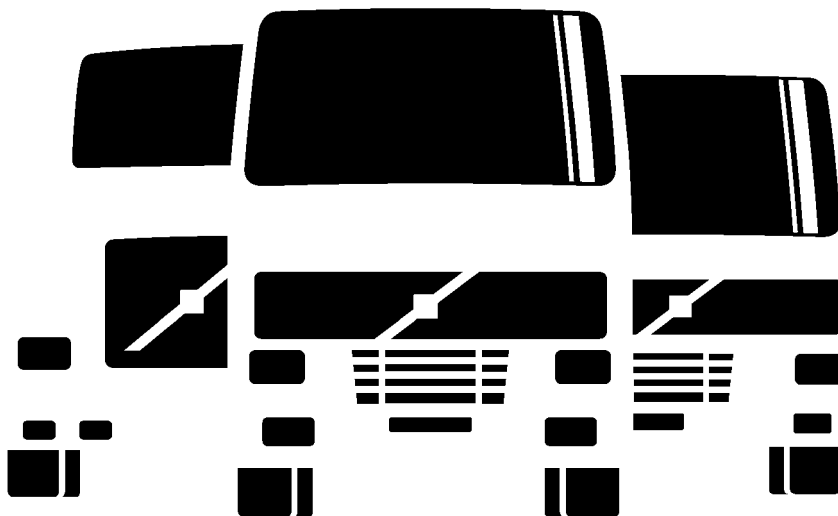
Service Manual Trucks

Group **37**

Release **02**

Wiring diagram

FM9, FM12, FH12 VERSION2



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to August 02.

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, supplementary service bulletins 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

The following information will be superseded by this manual:

SM Group 37 TSP 169444

Order number: TSP175664

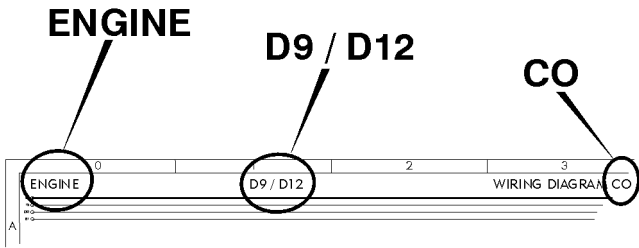
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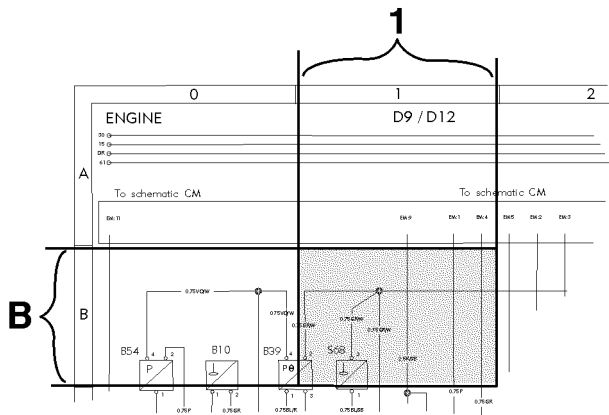
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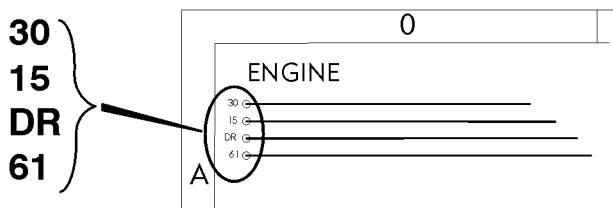
Example of wiring diagram



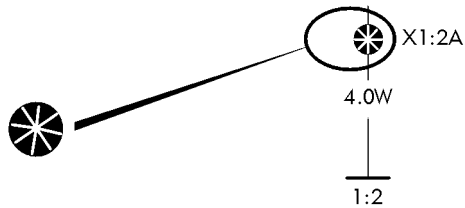
Component wiring diagram title, variant/subtitle and symbol.



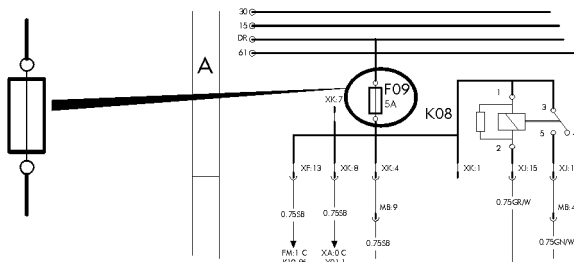
Coordinates (B 1).



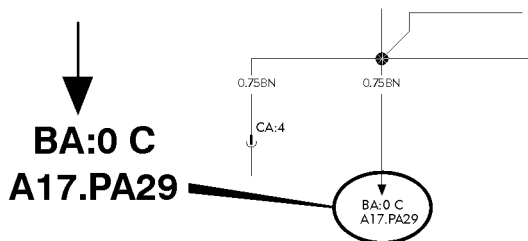
30 Voltage battery, kl.30.
15 Voltage with starter key in drive position, kl.15.
DR Voltage with starter key in drive position, preheat position and start position, kl.DR.
61 Voltage when alternator charges, kl.61.



Splice.



Fuse.

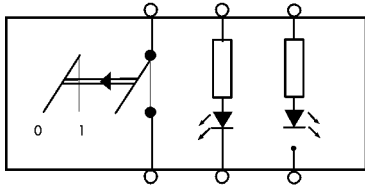
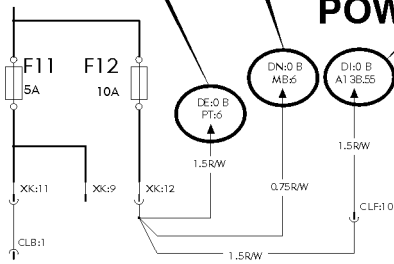


Reference arrow, for diagram BA, coordinates 0 C, component A17, connector PA pin 29.

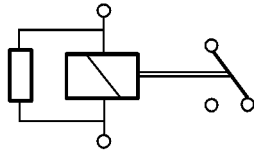
GEARTRONIC

I-SHIFT

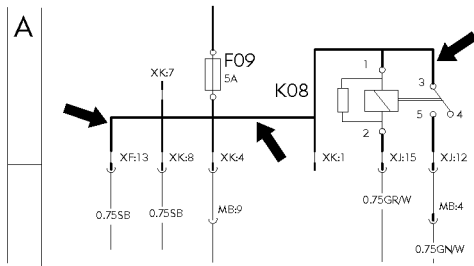
POWERTRONIC



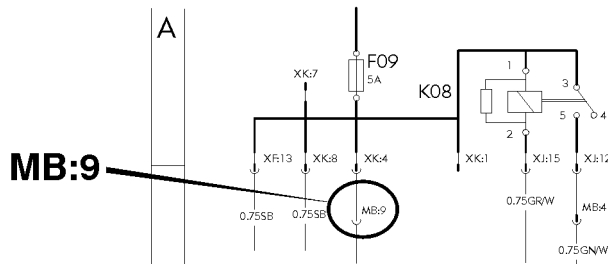
Switch.



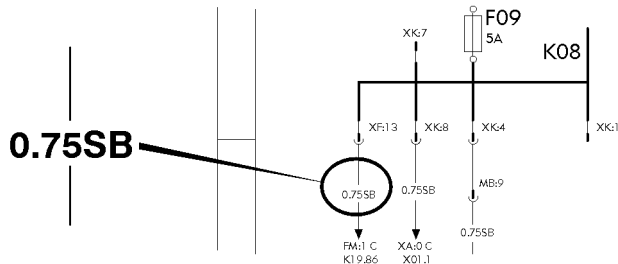
Relay.



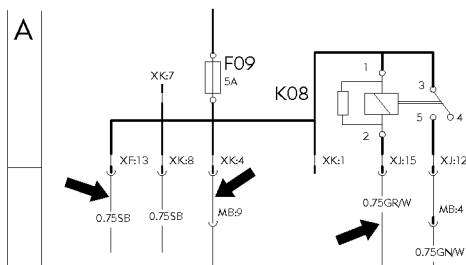
Conductor on circuit card.



Connector MB terminal 9.

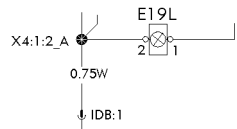


Wire area and colour.

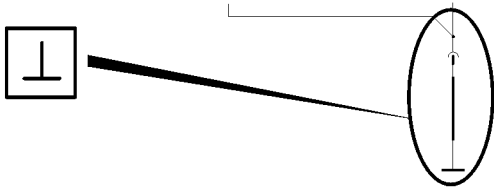


Thin lines, wires.

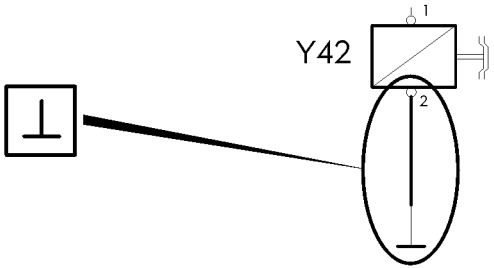
Earth connection point 4, earth connection 1 and wire 2.



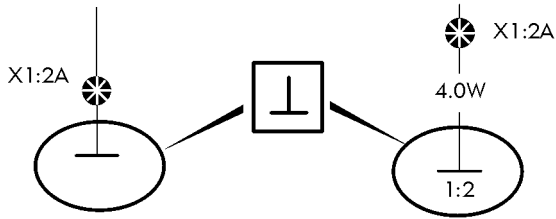
Earth connection to circuit card.



Earth connection without wire.



Same splice can be drawn on several diagrams. The wire from the splice to the earth connection point will only be drawn and coded on one diagram. On the other diagrams will only the earth connection point be written besides the splice.



Component wiring diagram index

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DI	Powertronic	page 22
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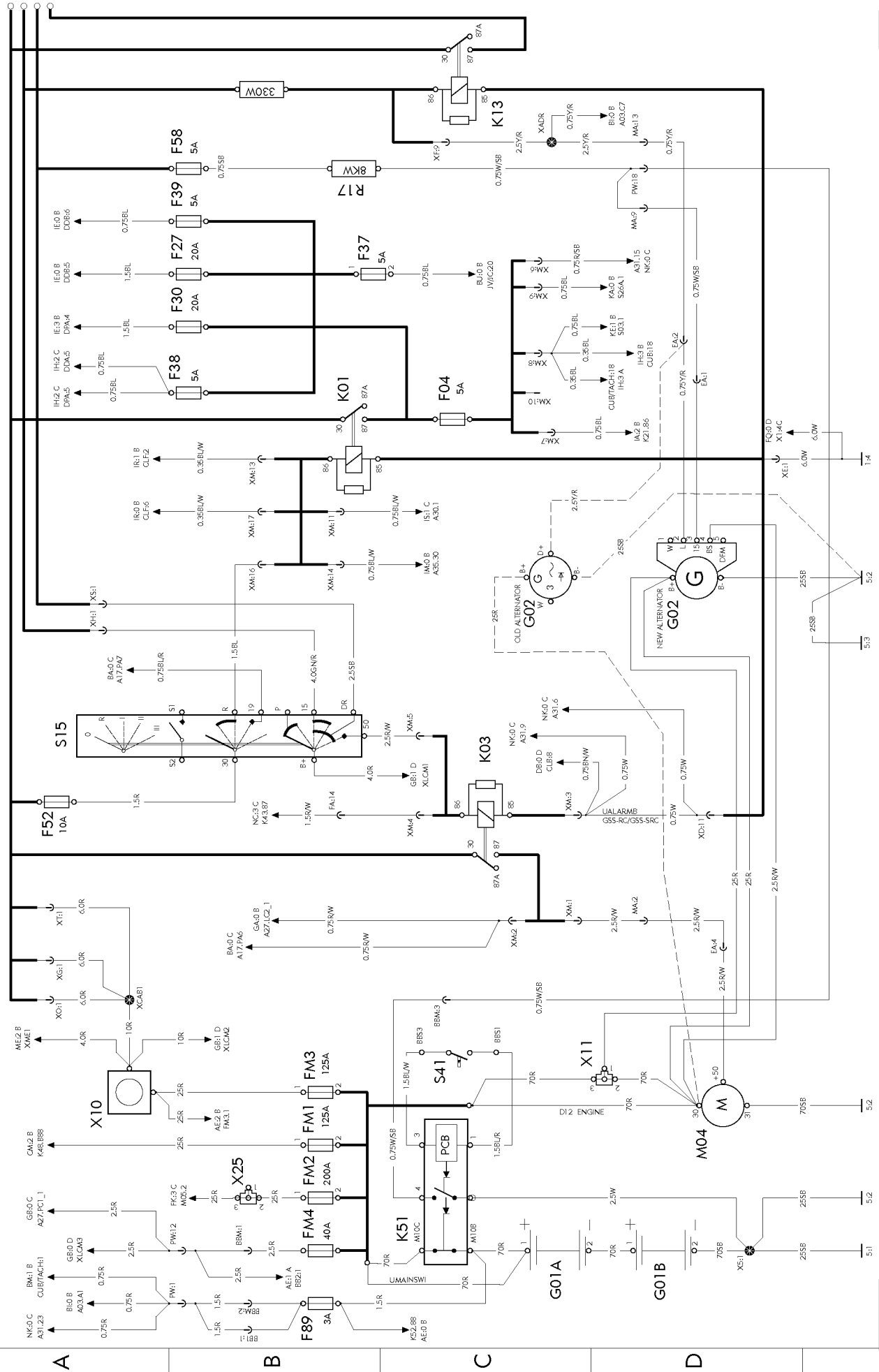
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Component wiring diagrams

WIRING DIAGRAM AA

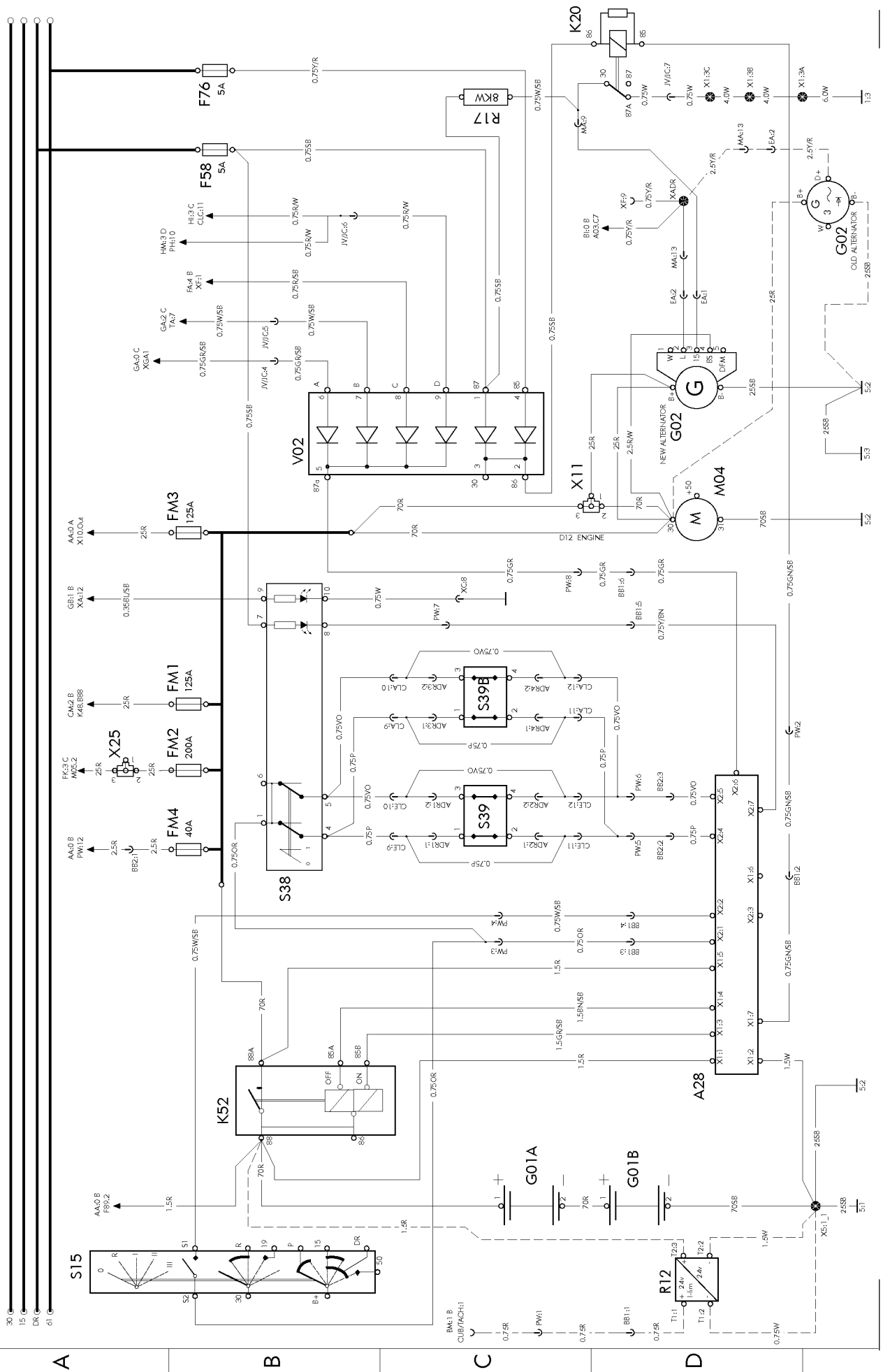
STARTING SYSTEM

POWER SUPPLY



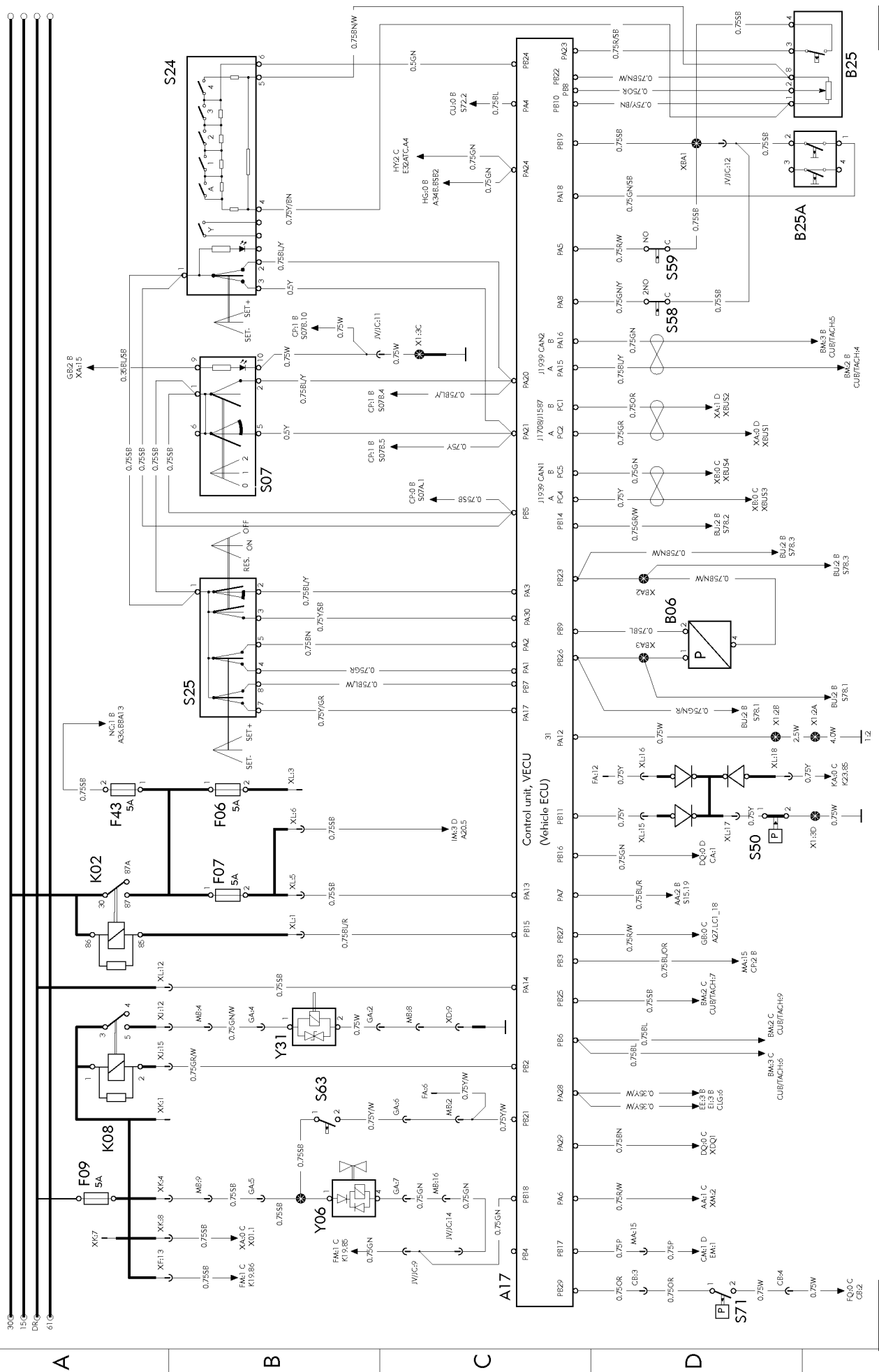
WIRING DIAGRAM AE

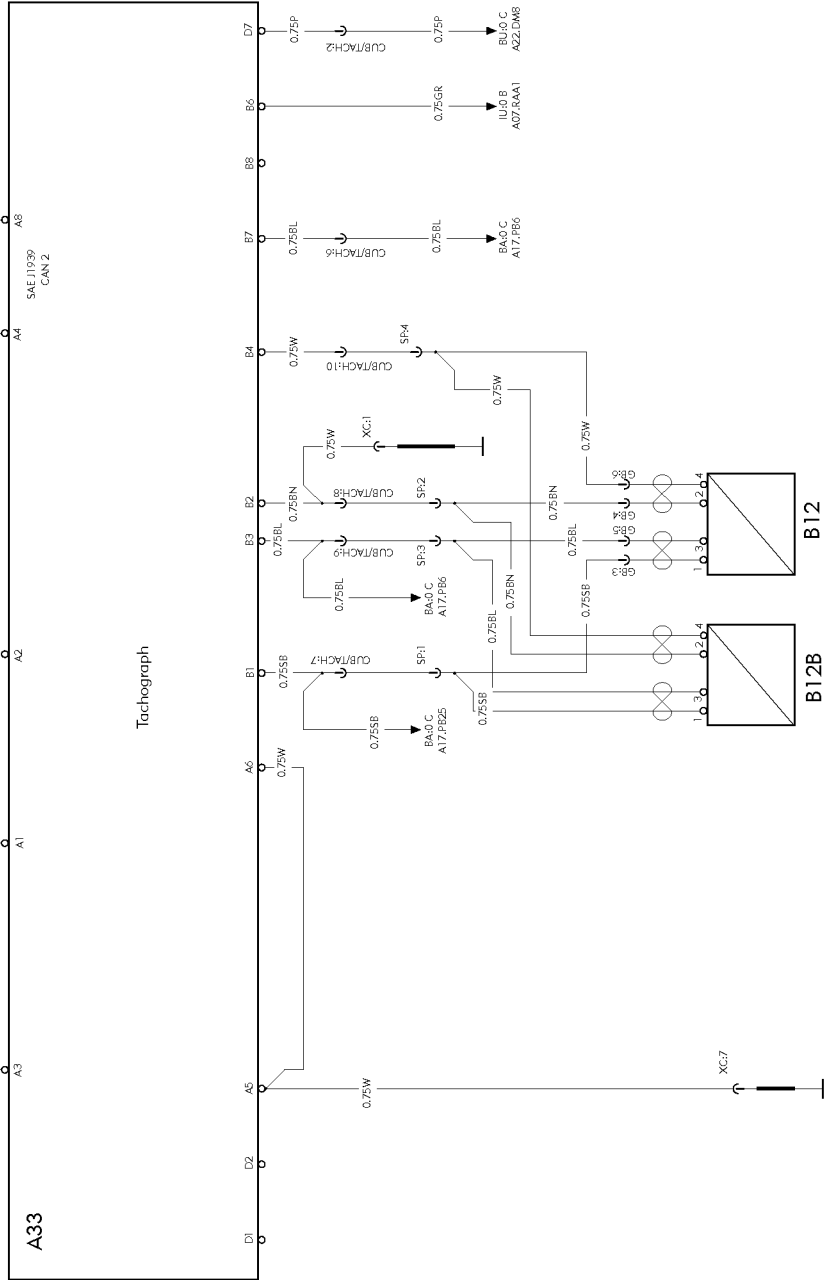
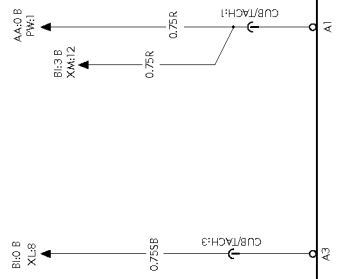
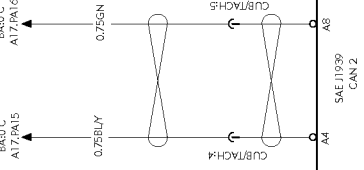
ADR, MAIN SWITCH



VEHICLE ECU

WIRING DIAGRAM BA

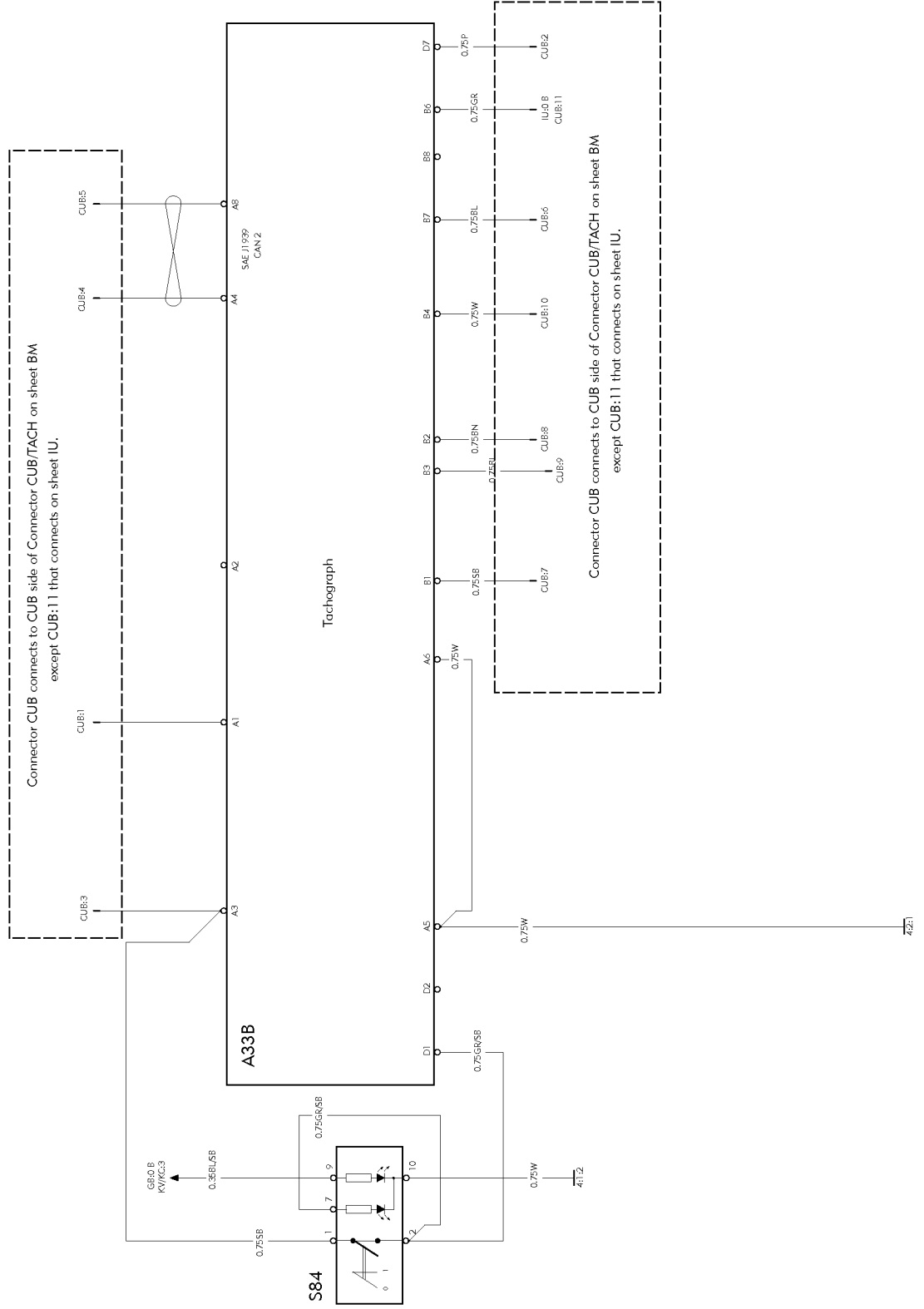
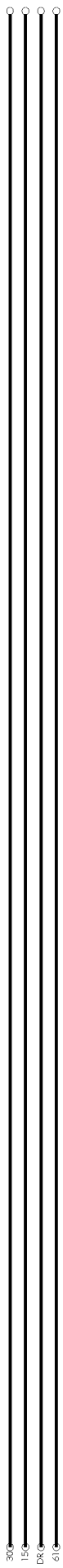




TACHOGRAPH

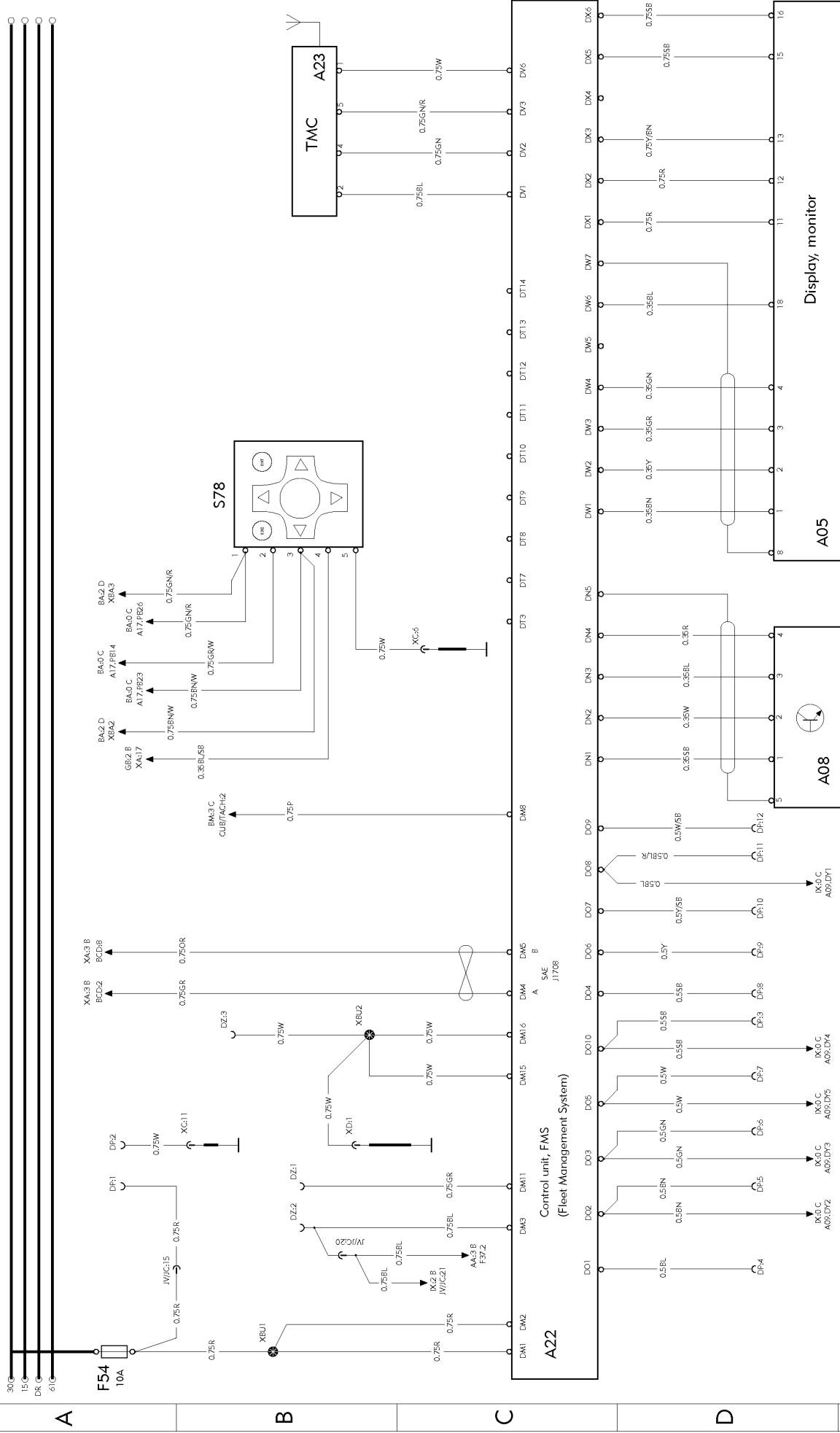
IN SHELF

WIRING DIAGRAM BN



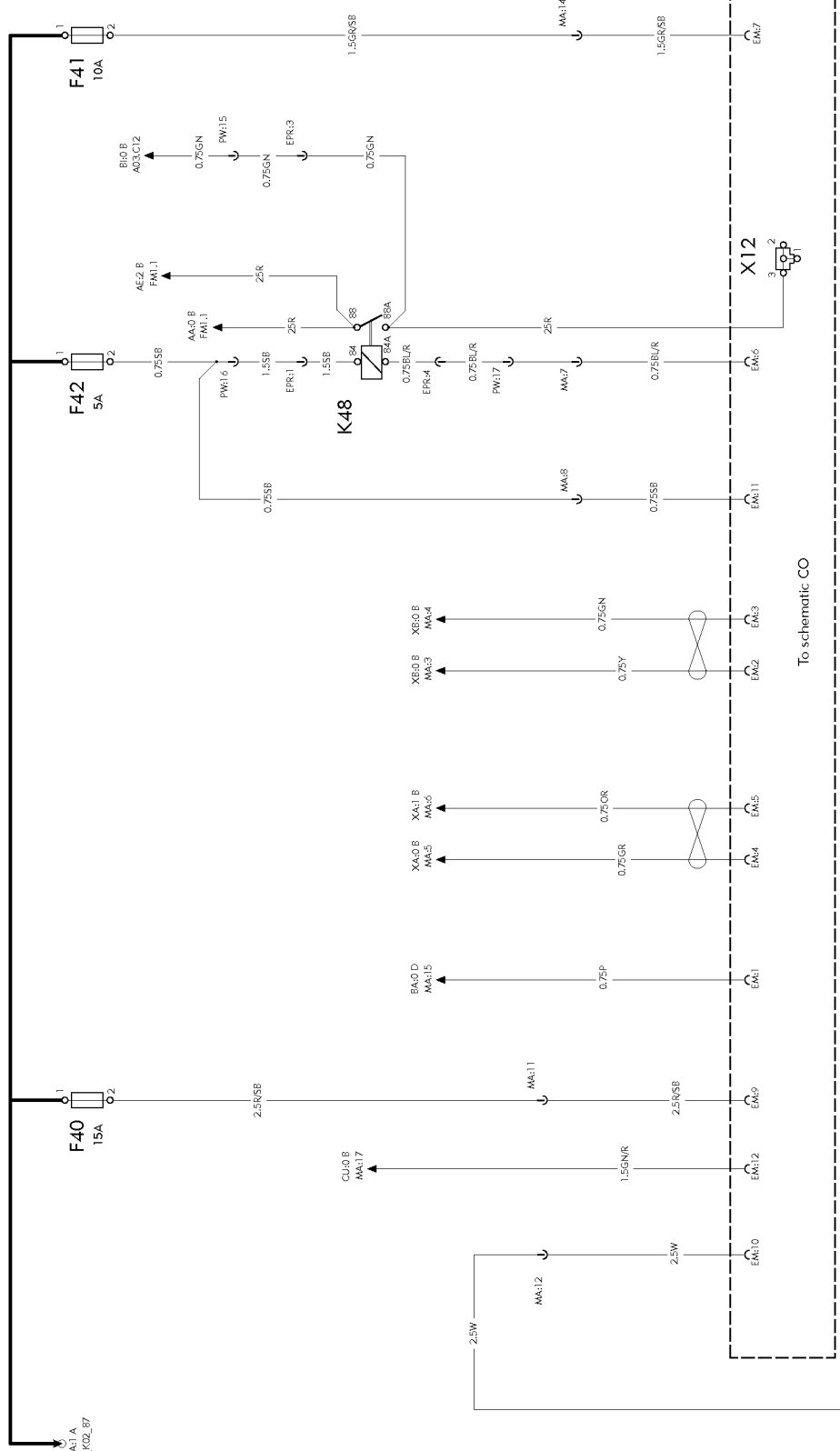
DYNAFLEET

WIRING DIAGRAM BU



WIRING DIAGRAM CM

ENGINE INTERFACE



To schematic CO

X12A

A

B

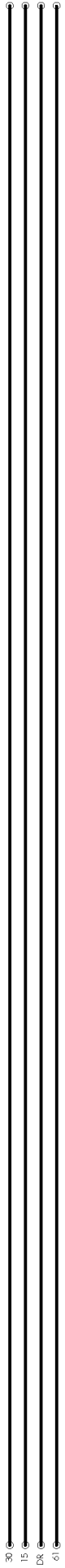
C

D

ENGINE

D9A / D12D

WIRING DIAGRAM CO



A

B

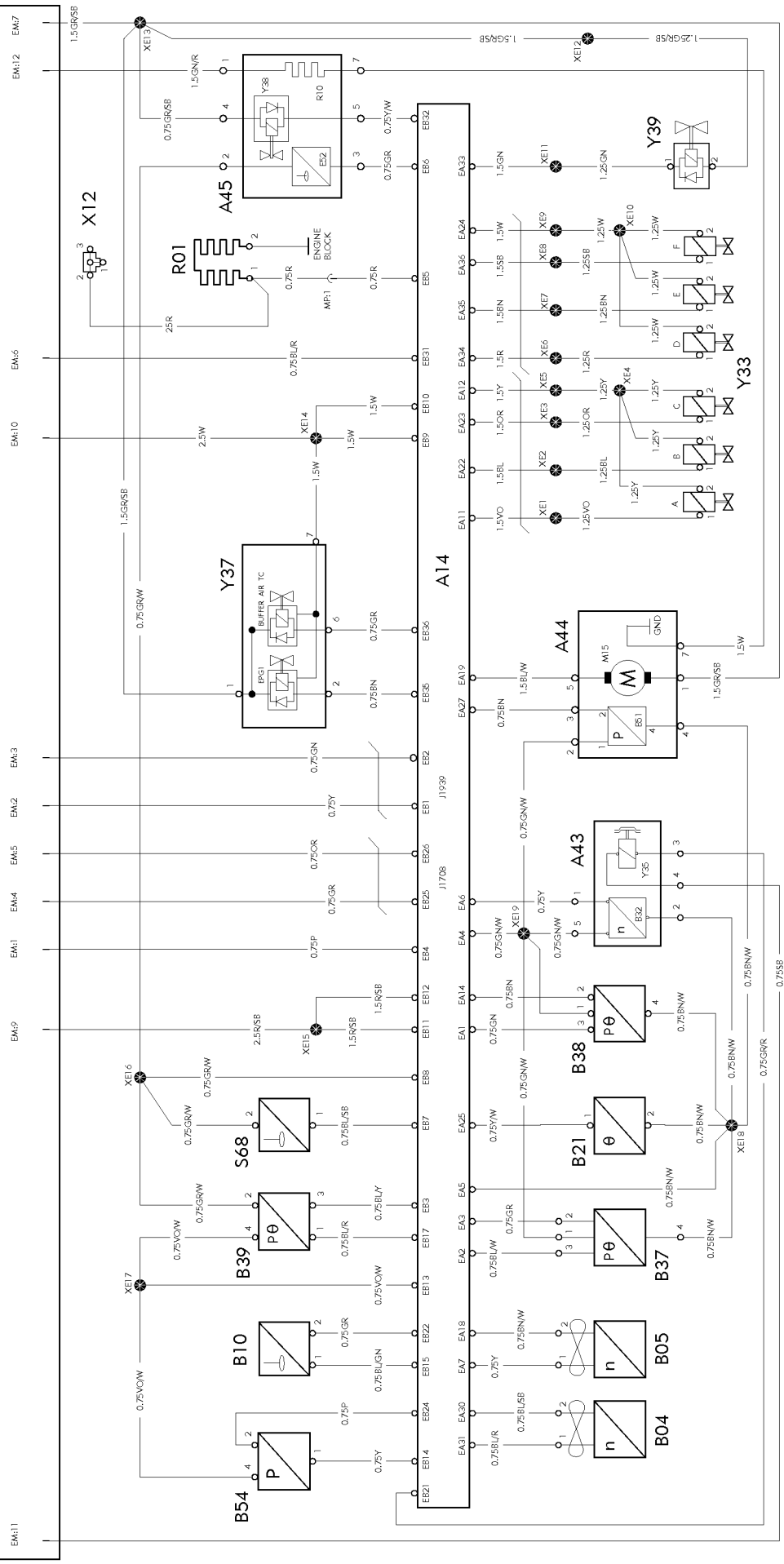
C

D

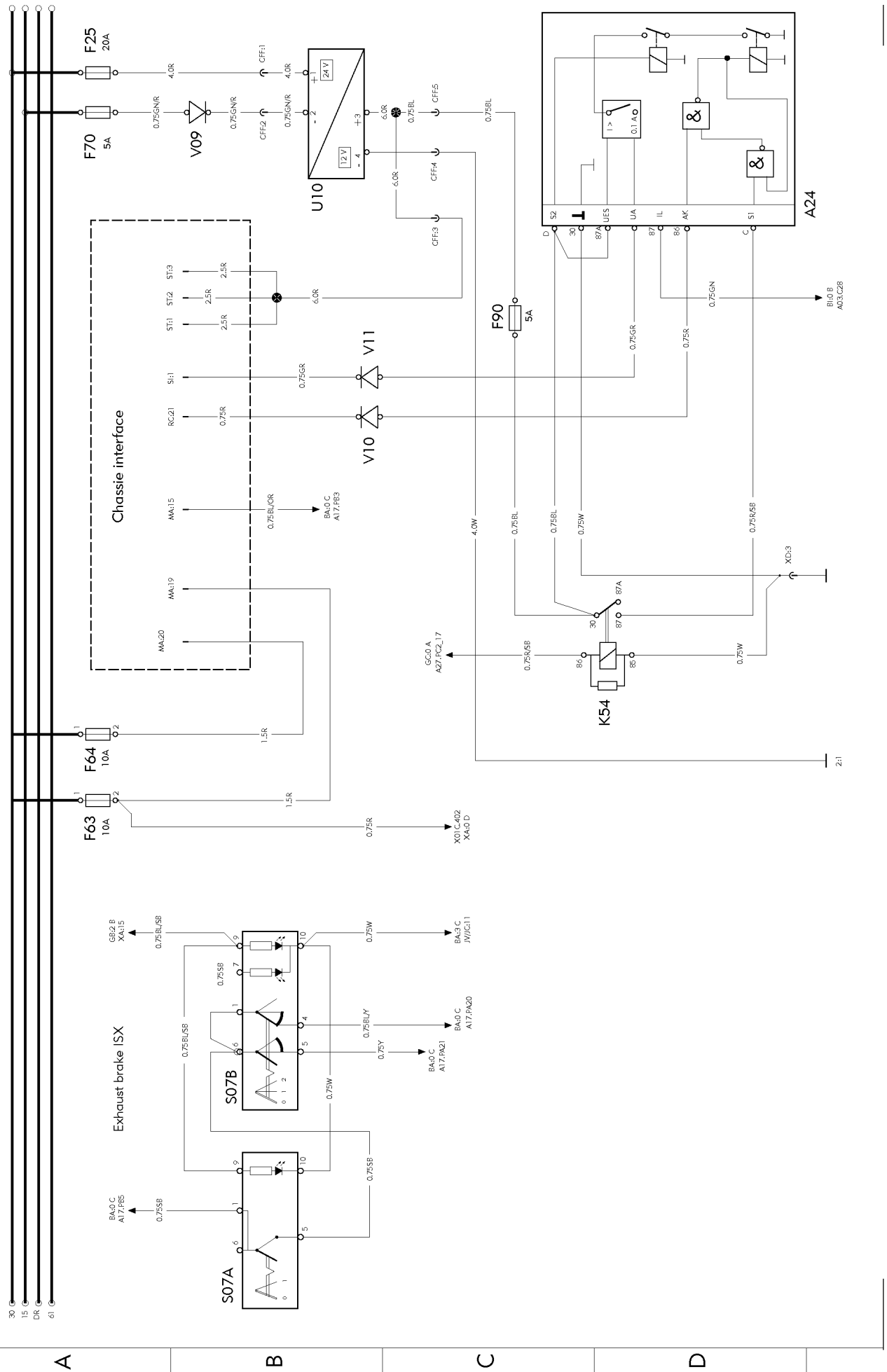
To schematic CM

To schematic CM

To schematic CM

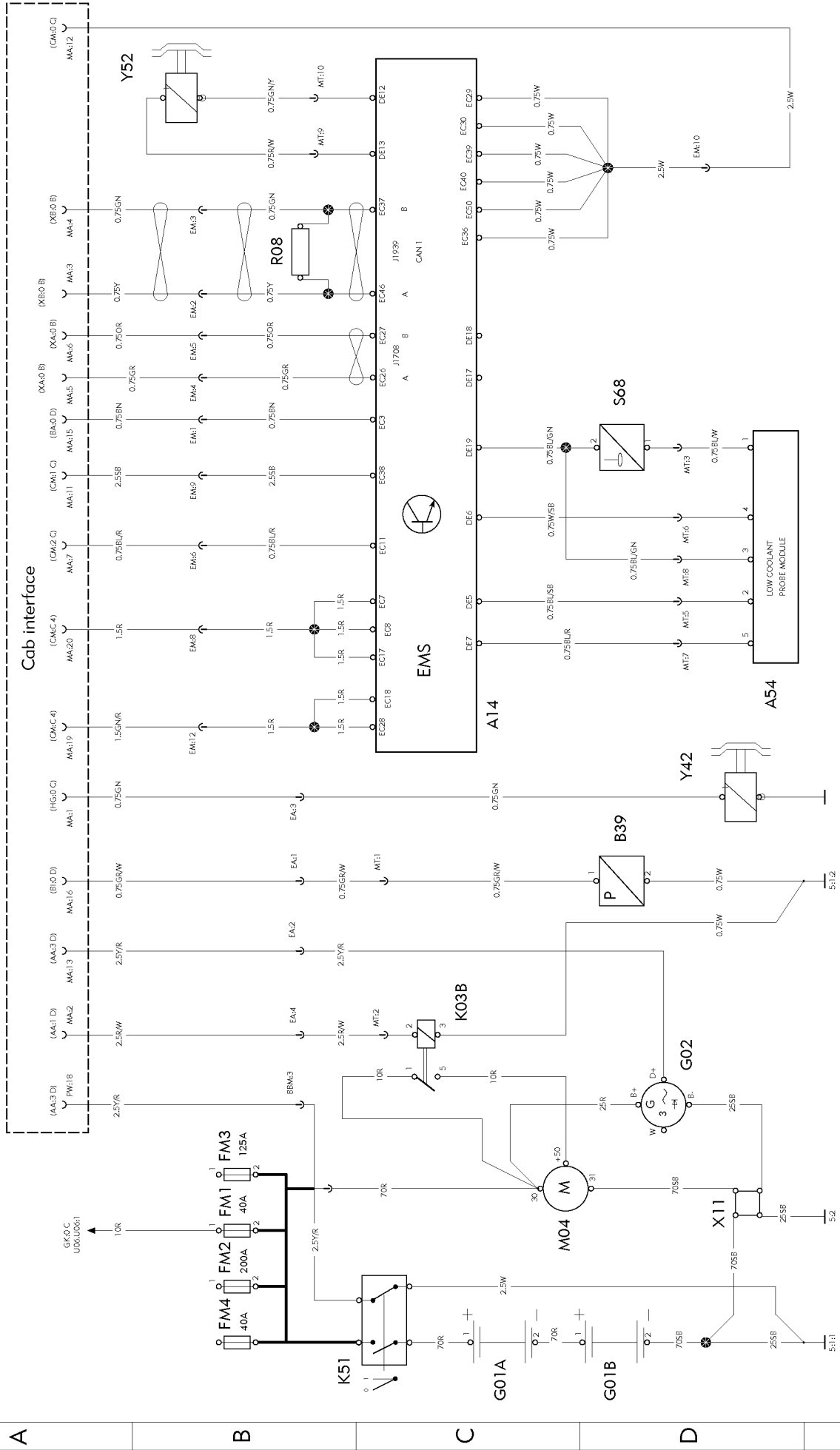


ISX FUNCTIONS (AUS ONLY) 12V TRAILER ABS CONVERTER WIRING DIAGRAM CP



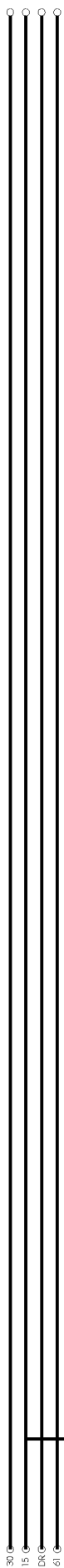
ENGINE ISX (AUS ONLY)

WIRING DIAGRAM CS

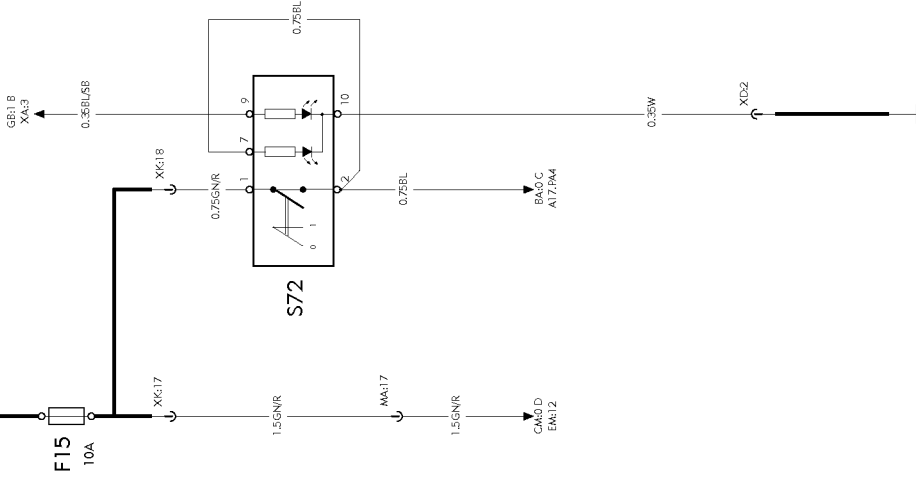


FUEL FILTER WATER DRAIN

WIRING DIAGRAM CU



A

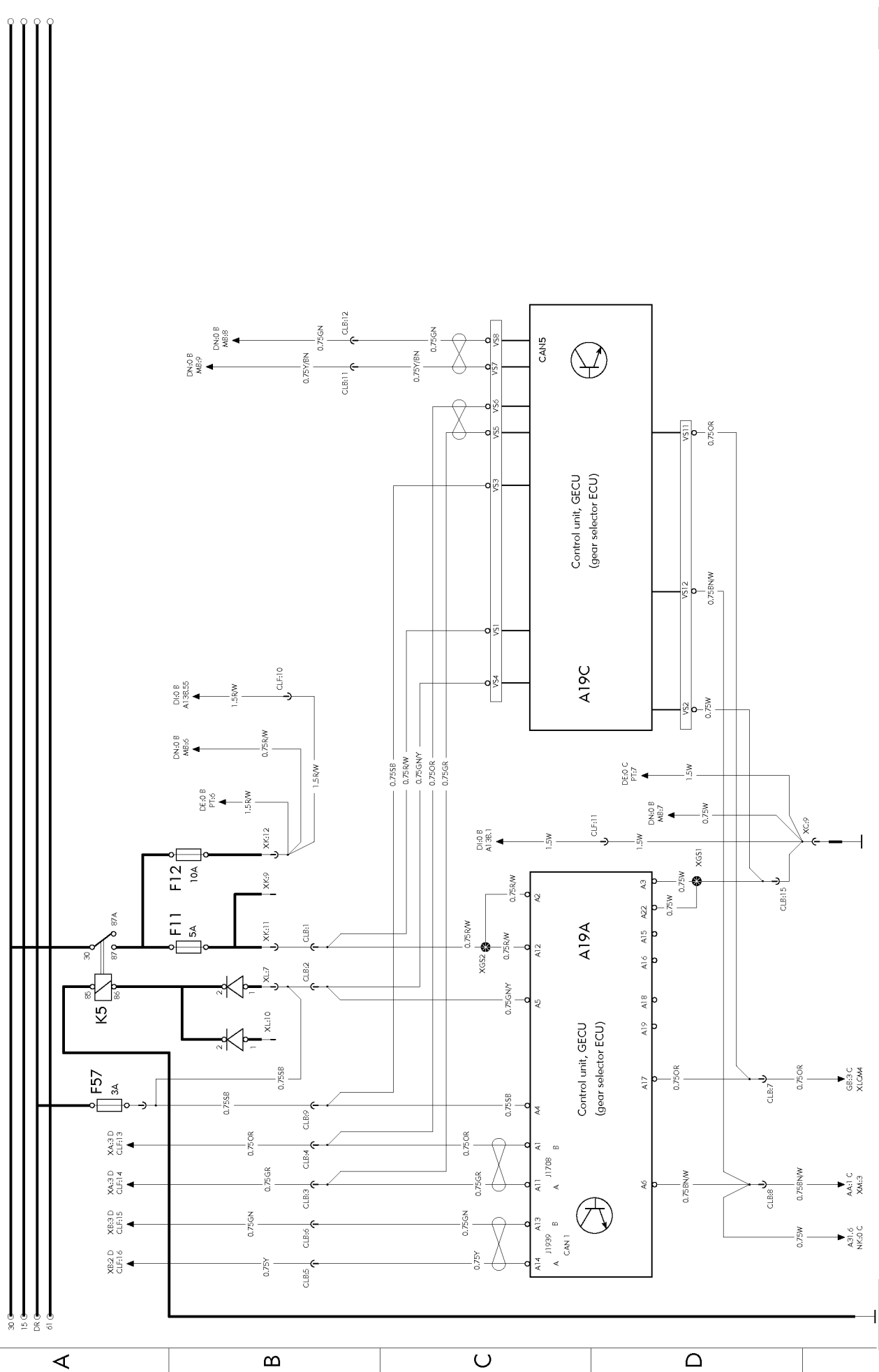


B

C

D

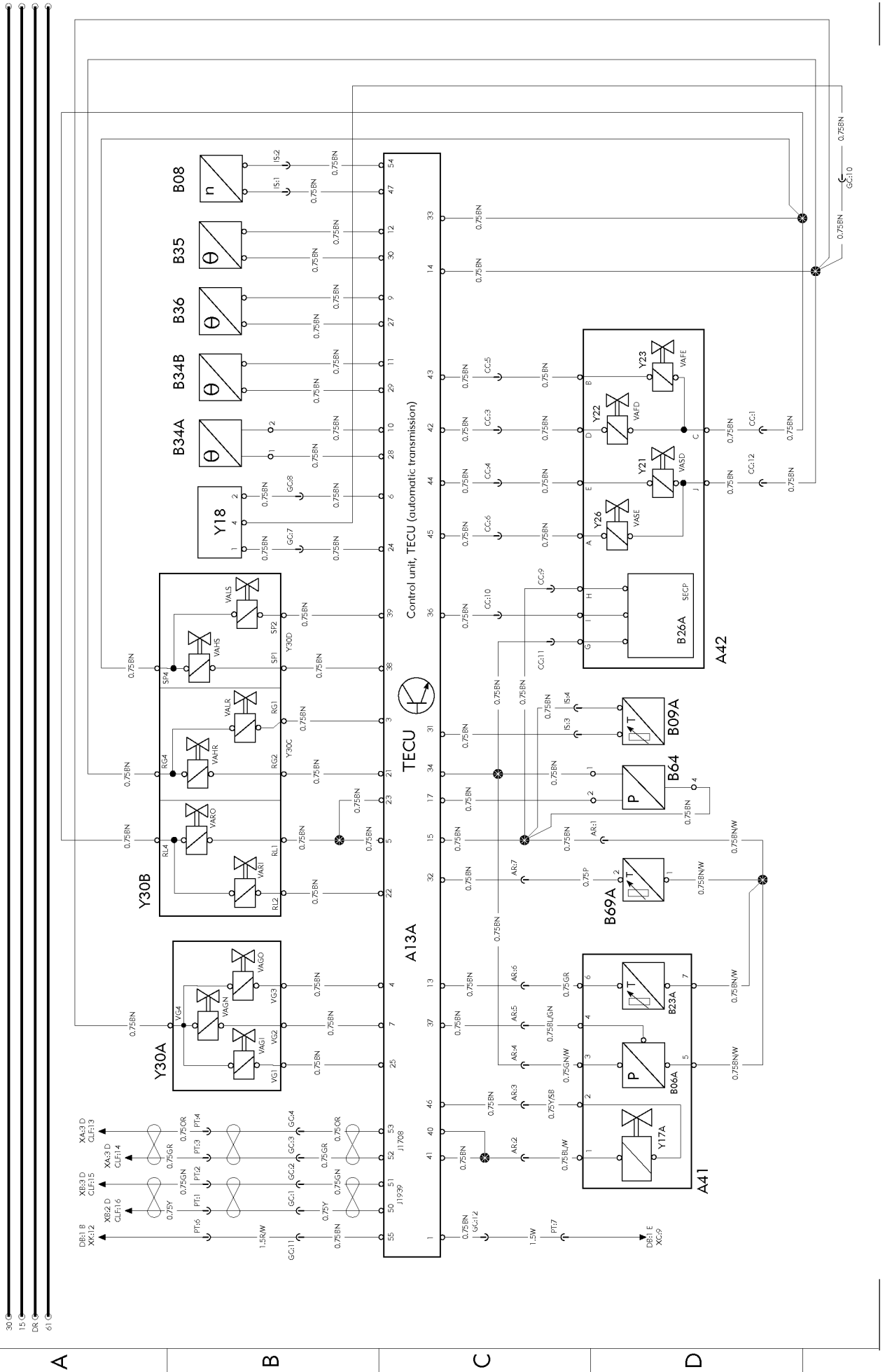
GEAR SELECTOR ECU WIRING DIAGRAM DB



WIRING DIAGRAM DE

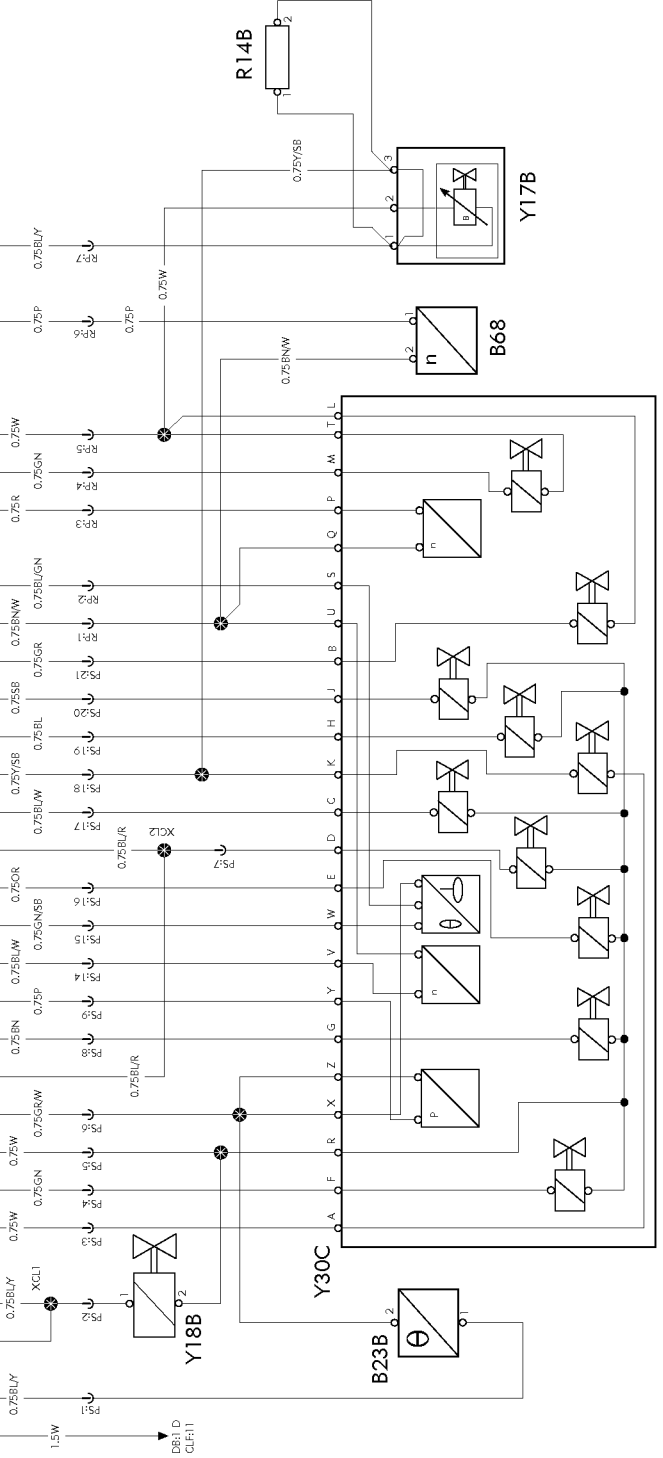
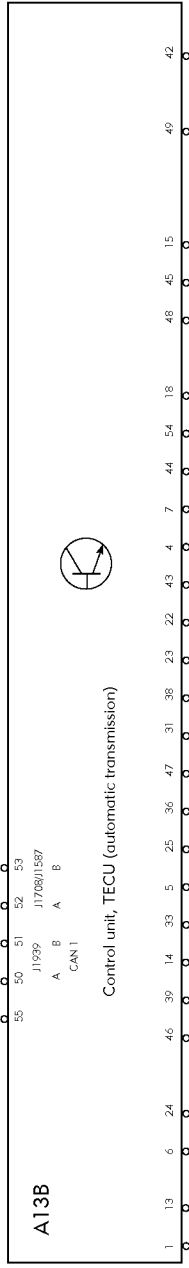
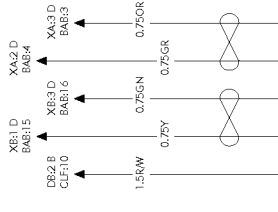
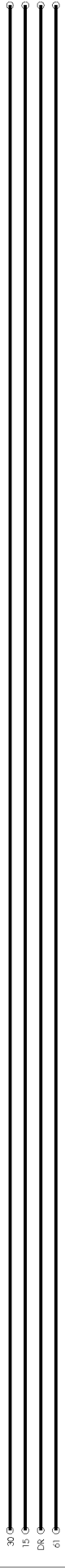
AUTOMATIC GEARSHIFT

GEARTRONIC



POWERTRONIC

WIRING DIAGRAM DI

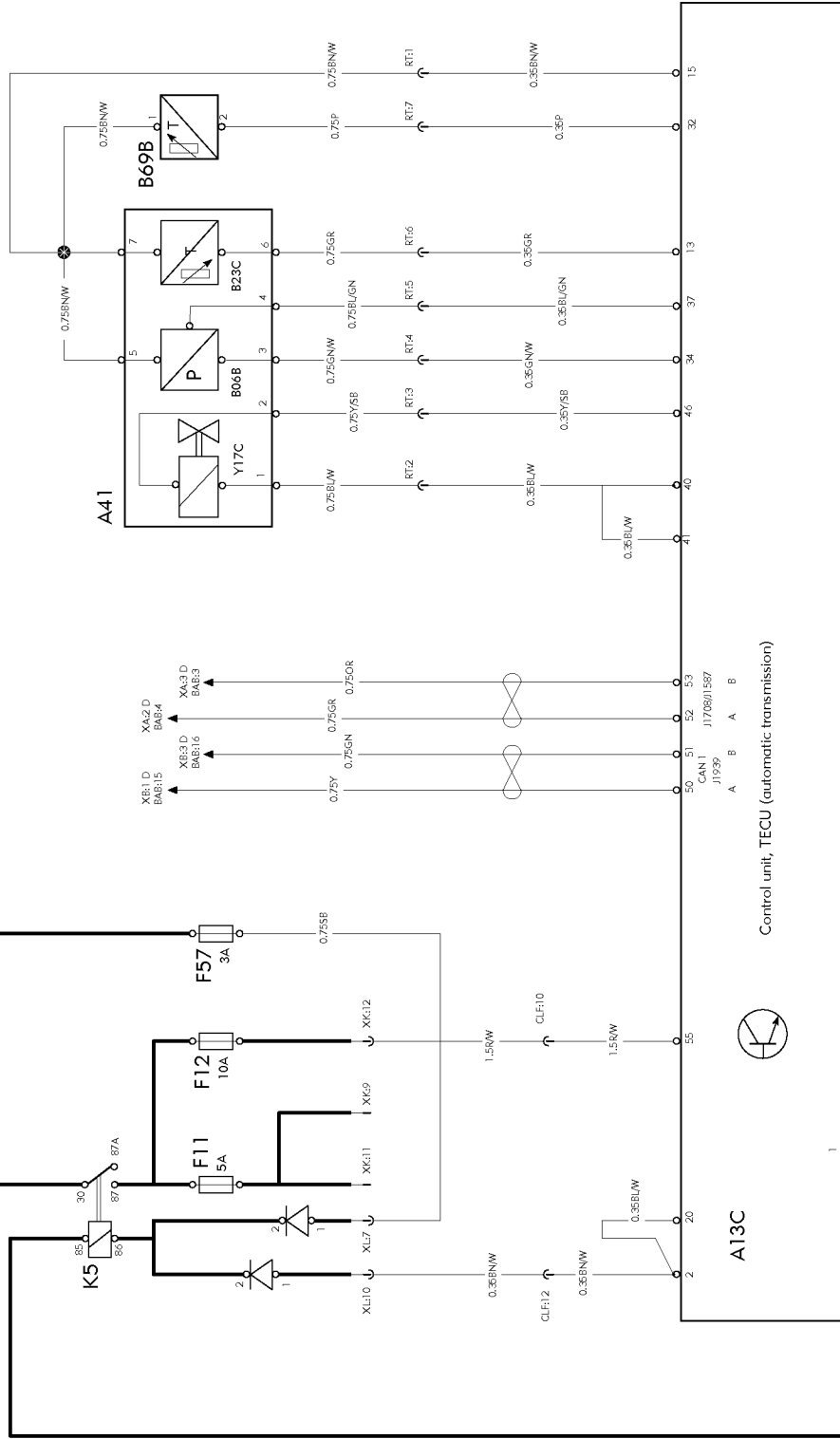


Control unit, TECU (automatic transmission)

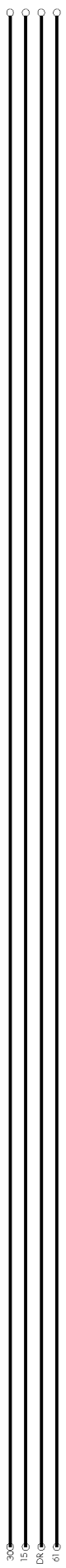
WIRING DIAGRAM DM

MANUAL GEARSHIFT

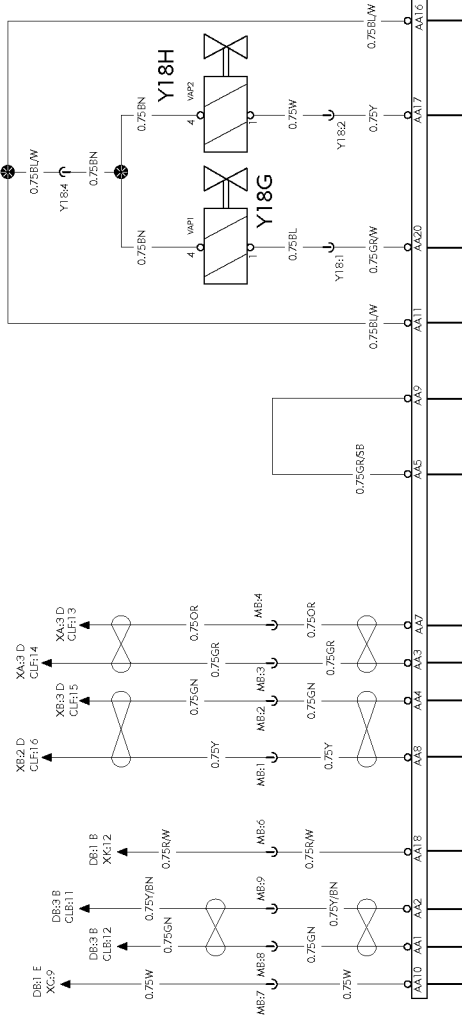
RETARDER



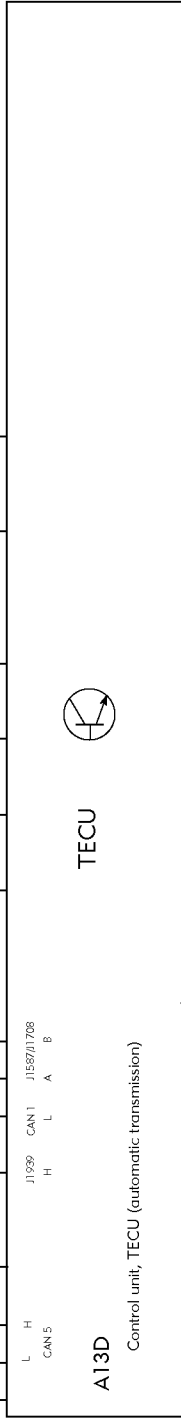
I-SHIFT WIRING DIAGRAM DN



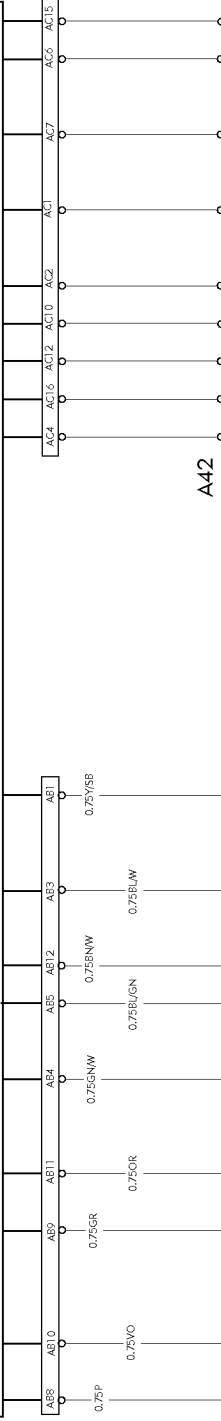
A



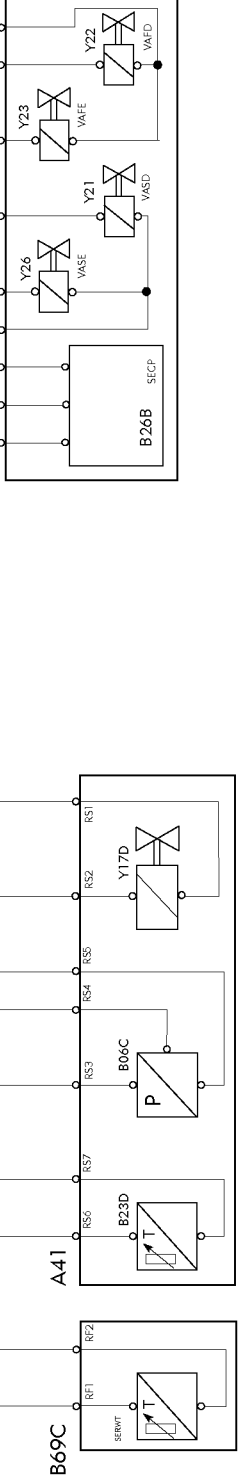
B



C



D



WIRING DIAGRAM DQ

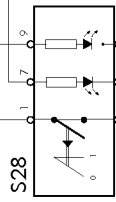
POWER TAKE OFF



A

F16
5A

GR2 B
XA118
XLJ13
GR2 C
CLC12
HMA1 B
PH4



B

Y18A

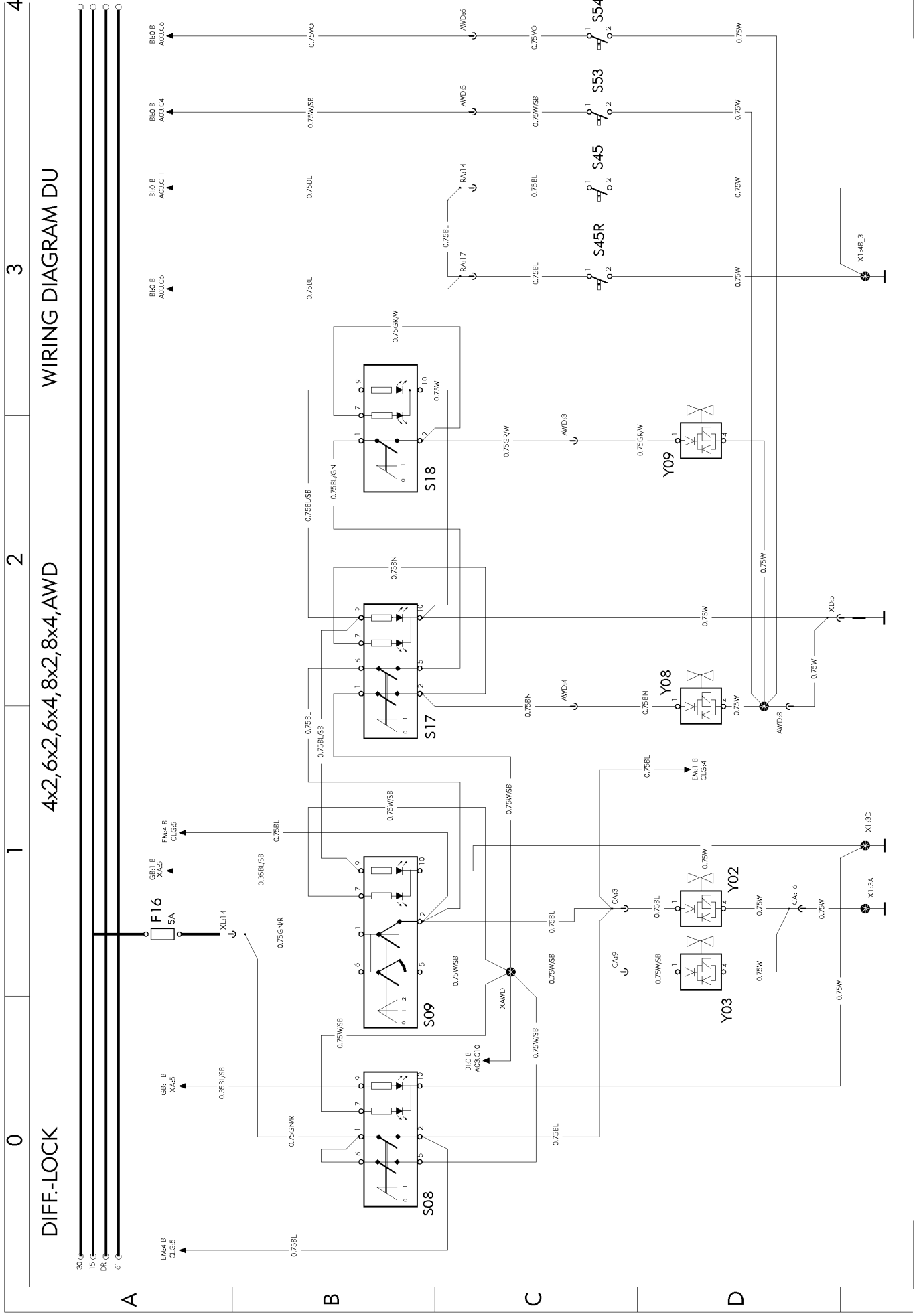
XDC1



X13C

C

D



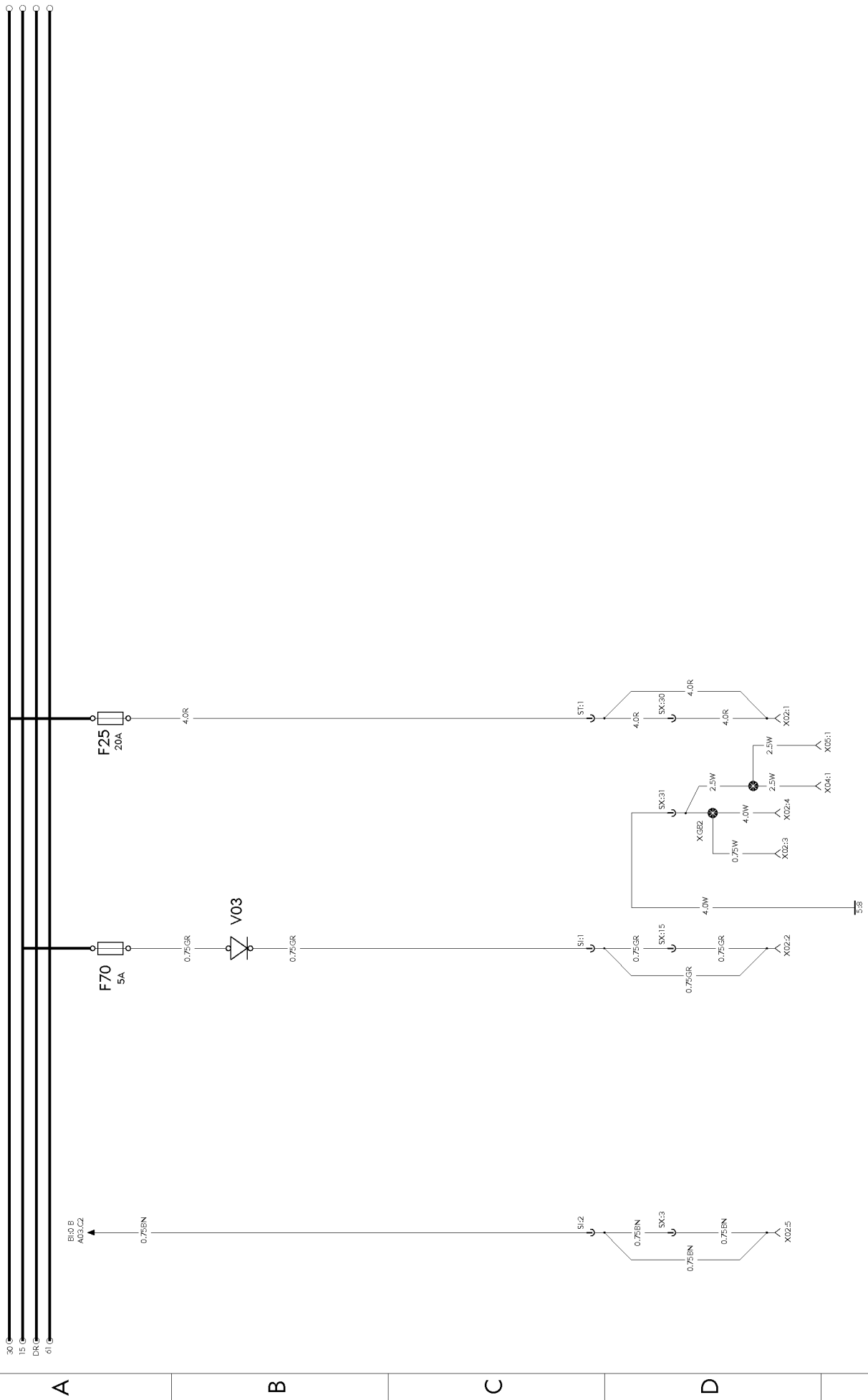
WIRING DIAGRAM DU

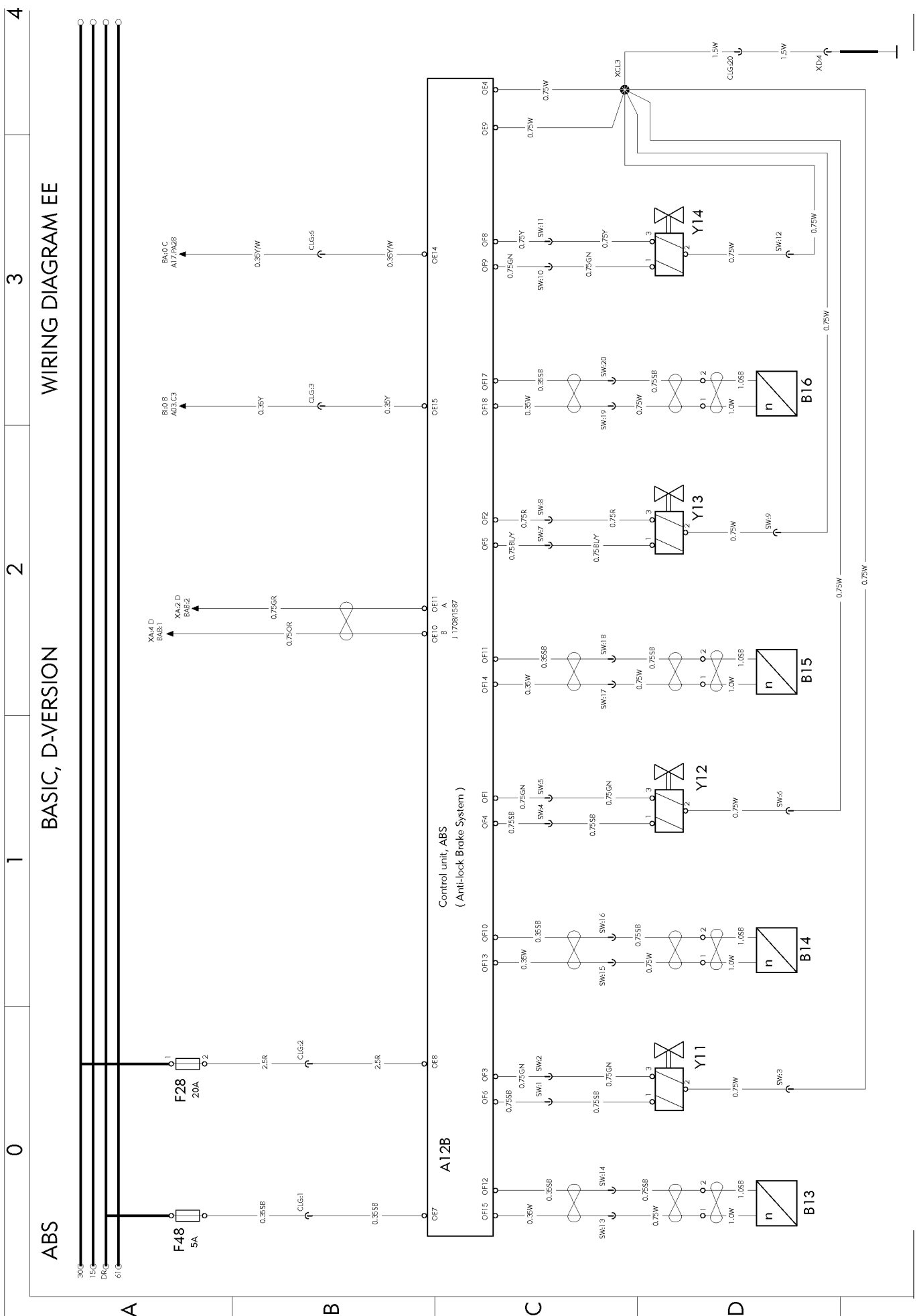
4x2, 6x2, 6x4, 8x2, 8x4, AWD

DIFF-LOCK

TRAILER ABS/EBS SUPPLY

WIRING DIAGRAM EC



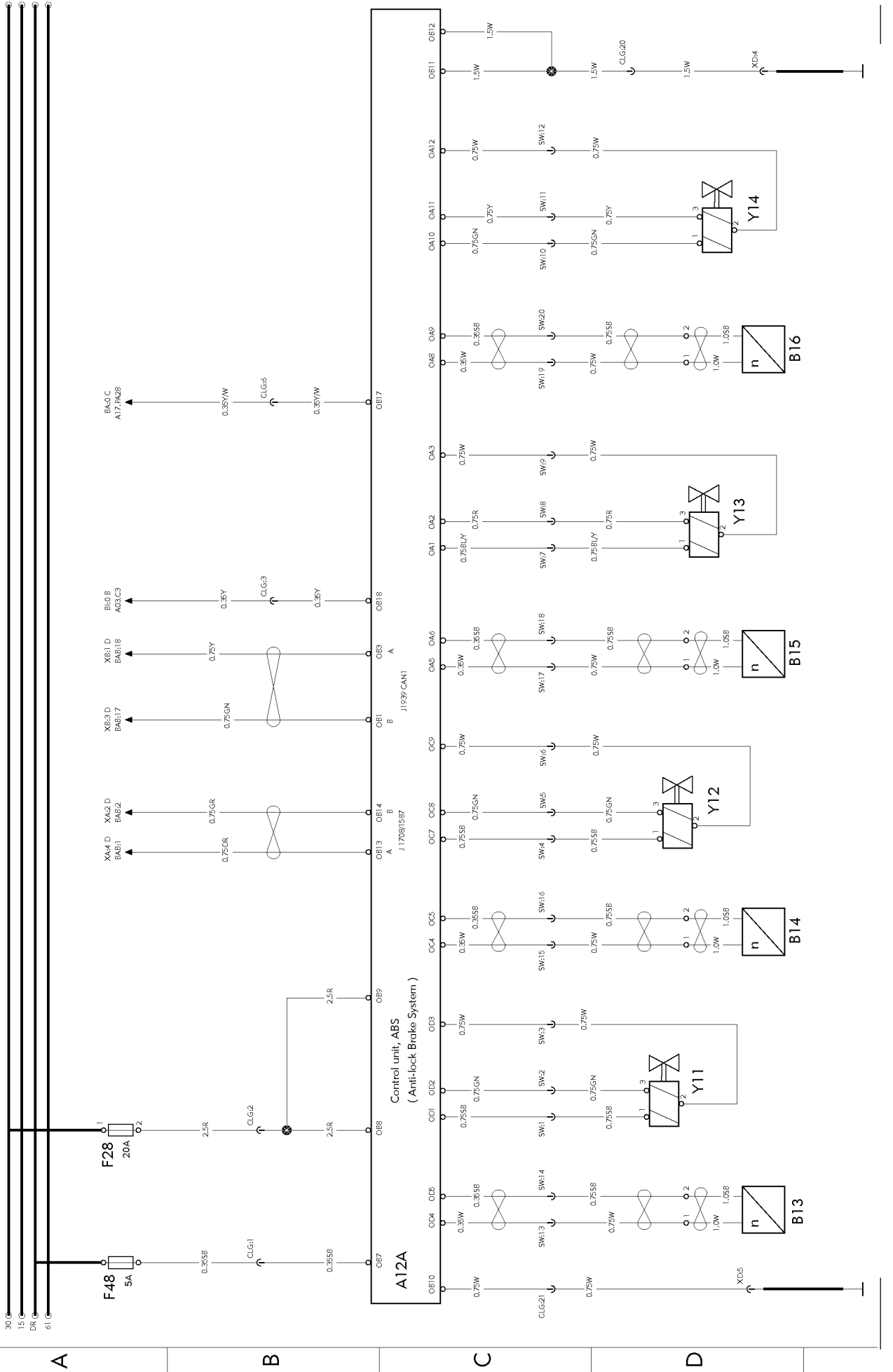


BASIC, D-VERSION WIRING DIAGRAM EE

WIRING DIAGRAM EI

D-VERSION

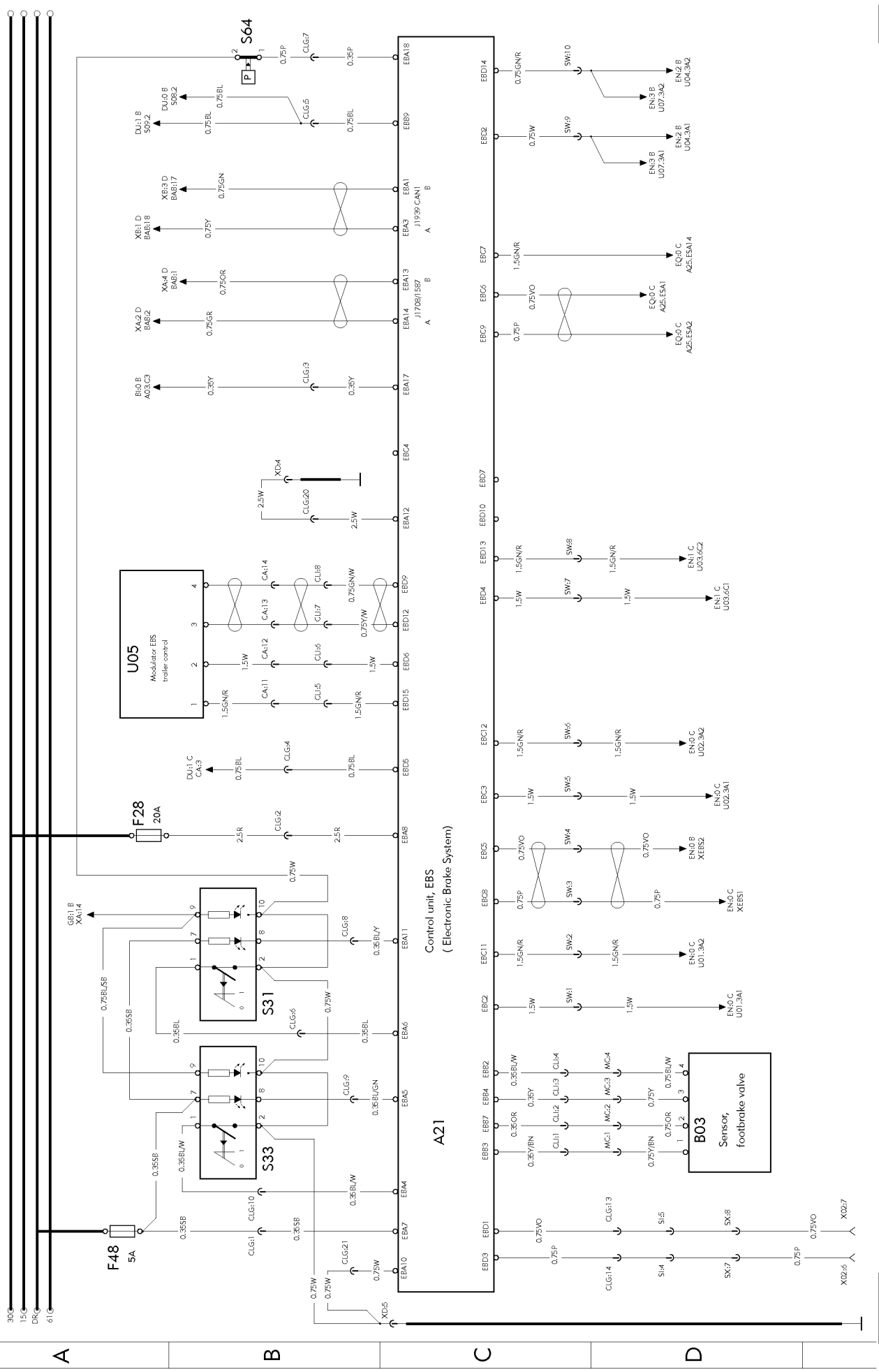
ABS/ASR



WIRING DIAGRAM EM

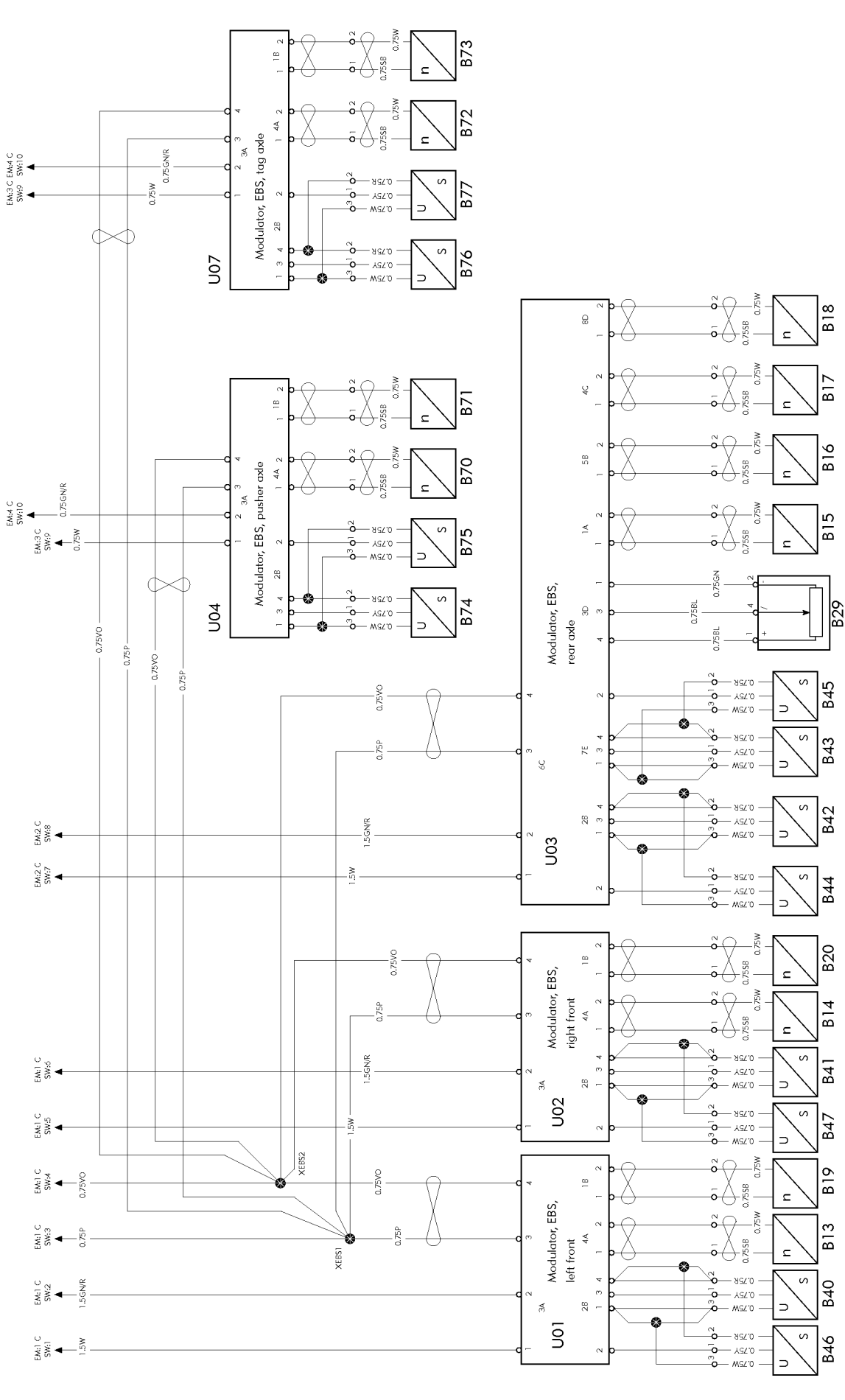
ECU

EBS



MODULATORS WIRING DIAGRAM EN

EBS



ESP

WIRING DIAGRAM EQ



A

EMAG/C
AZ1,LEBC7
1.5GNIR

EMAG/C
AZ1,LEBC9
0.75P

EMAG/C
AZ1,LEBC6
0.75VO

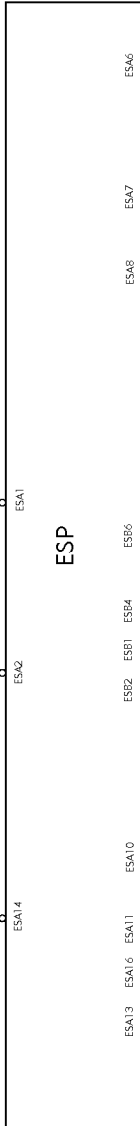


ESA1

ESA2

B

A25



ESA13 ESA16 ESA11
0.75BL 0.75GR 0.75GNIR
0.75GR 0.75GR

ESA10
0.75W
0.5W

ESA2 ESBI ESBI4
0.75BL 0.75GR 0.75GNIR

ESB2
0.75BL 0.75GR 0.75GNIR

ESB4
0.75BL 0.75GR 0.75GNIR

ESB6
0.75W

ESB7
0.75W

ESB8
0.75W

ESB9
0.75W

ESB10
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ESB11
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ESB12
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ESB109
0.75W

ESB110
0.75W

ESB111
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ESB112
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ESB113
0.75W

ESB114
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ESB115
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ESB116
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ESB117
0.75W

ESB118
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ESB119
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ESB120
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ESB121
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ESB122
0.75W

ESB123
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ESB124
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ESB125
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ESB126
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ESB127
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ESB128
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ESB129
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ESB130
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ESB131
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ESB132
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ESB133
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ESB134
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ESB135
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ESB136
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ESB137
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ESB138
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ESB139
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ESB140
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ESB141
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ESB142
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ESB143
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ESB144
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ESB145
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ESB146
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ESB147
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ESB148
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ESB149
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ESB150
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ESB151
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ESB152
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ESB153
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ESB154
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ESB169
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ESB171
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ESB172
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ESB173
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ESB174
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ESB175
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ESB176
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ESB177
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ESB178
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ESB179
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ESB180
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ESB181
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ESB182
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ESB183
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ESB185
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ESB186
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ESB187
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ESB188
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ESB189
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ESB190
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ESB191
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ESB192
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ESB195
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ESB196
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ESB197
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ESB198
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ESB199
0.75W

ESB200
0.75W

ESB201
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ESB202
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ESB203
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ESB204
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ESB205
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ESB206
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ESB207
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ESB208
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ESB209
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ESB210
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ESB211
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ESB212
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ESB213
0.75W

ESB214
0.75W

ESB215
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ESB216
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ESB217
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ESB218
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ESB219
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ESB220
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ESB221
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ESB222
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ESB223
0.75W

ESB224
0.75W

ESB225
0.75W

ESB226
0.75W

ESB227
0.75W

ESB228
0.75W

ESB229
0.75W

ESB230
0.75W

ESB231
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ESB232
0.75W

ESB233
0.75W

ESB234
0.75W

ESB235
0.75W

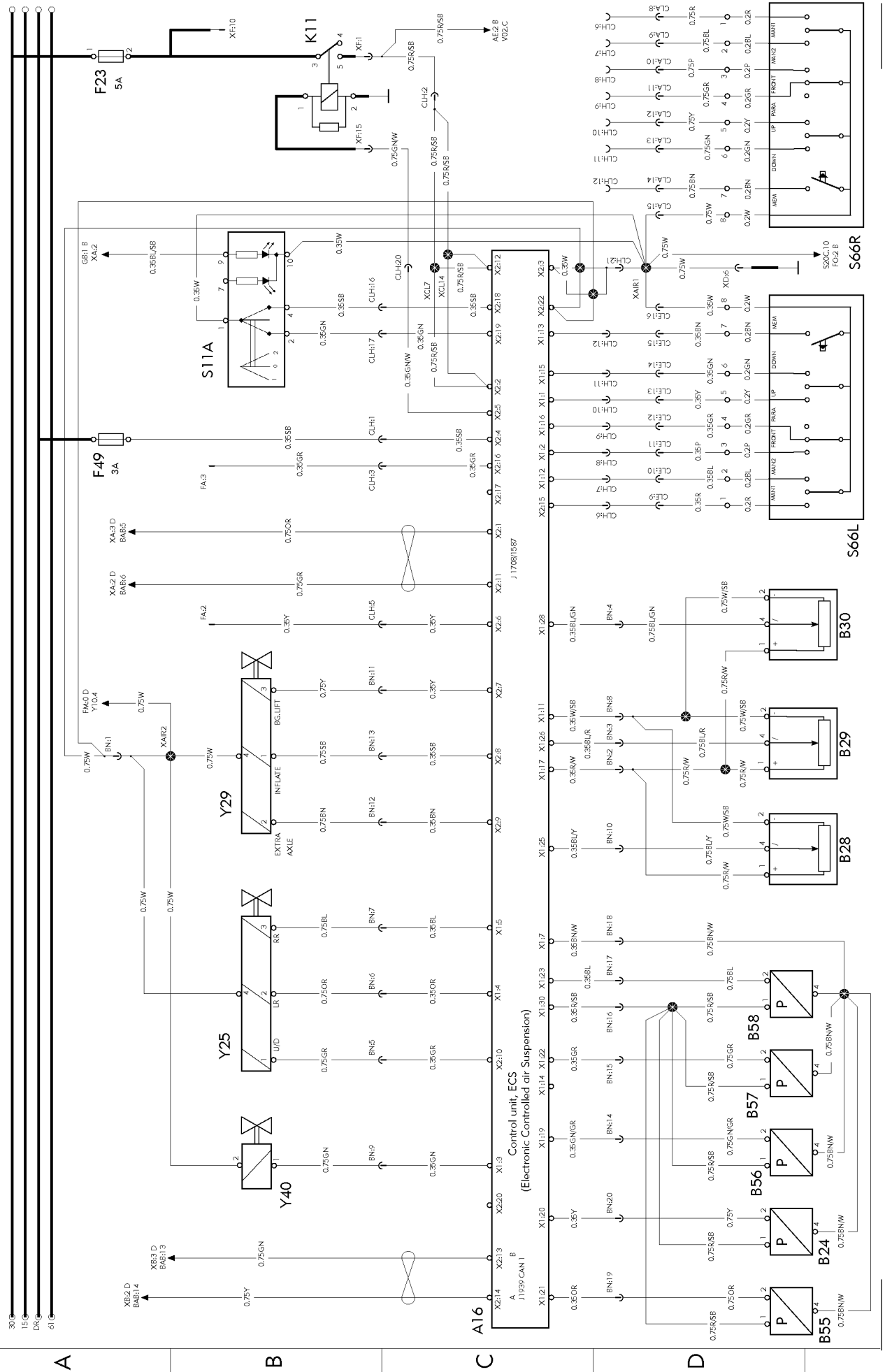
ESB236
0.75W

ESB237
0.75W

ESB238
0.75W

AIR-SUSPENSION

WIRING DIAGRAM FA

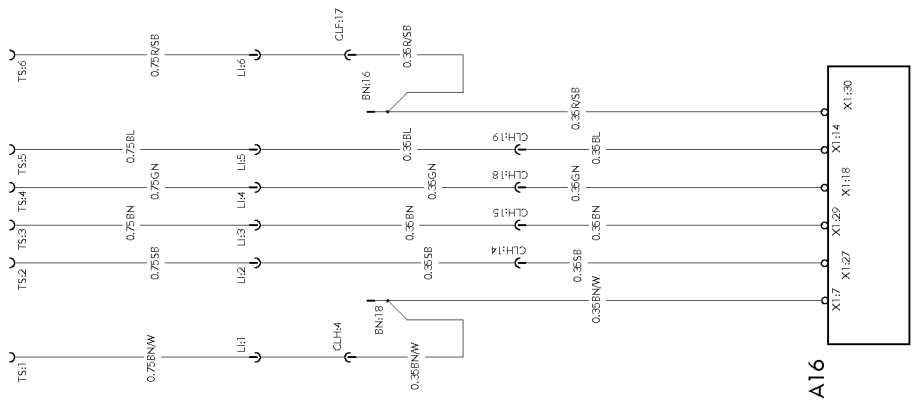


LOAD INDICATOR

WIRING DIAGRAM FG



A



B

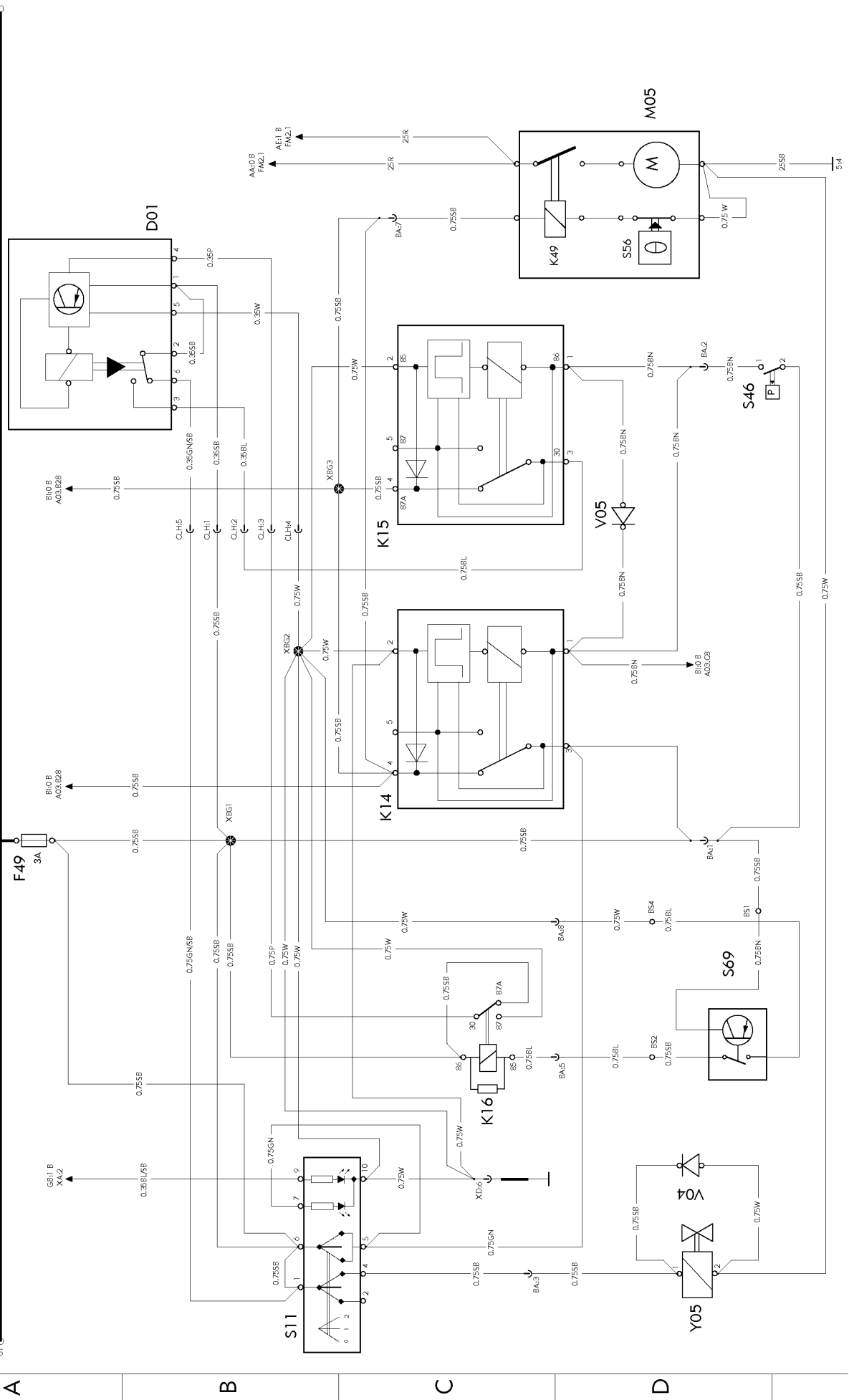
C

D

BOGIE LIFT

A-RIDE

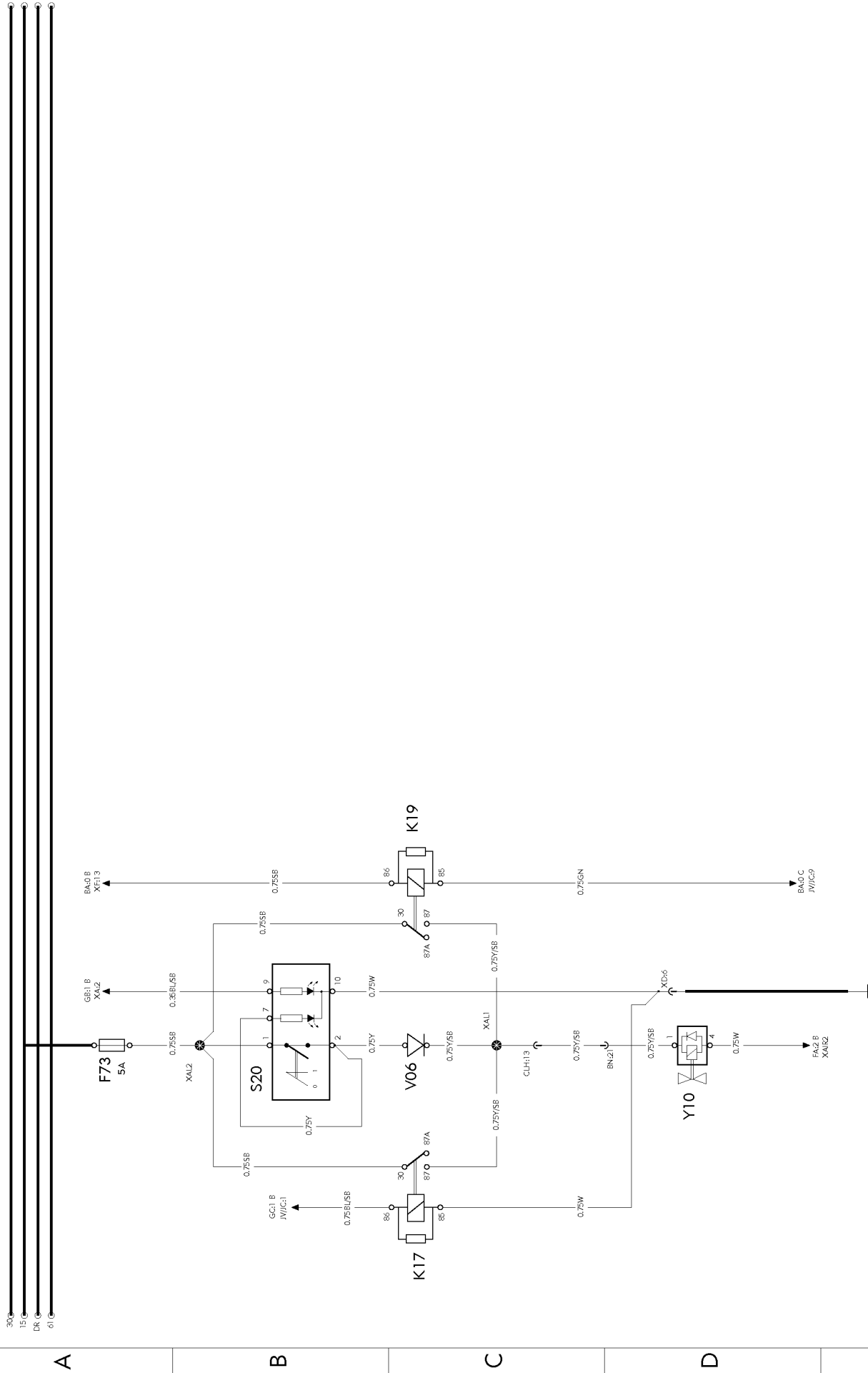
WIRING DIAGRAM FK



AXLE LOCK

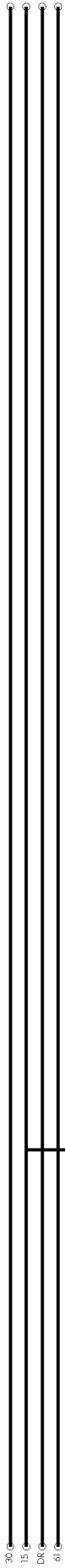
SELF STEERED AXLE

WIRING DIAGRAM FM



WIRING DIAGRAM FP

HYDRAULIC STEERED AXLE

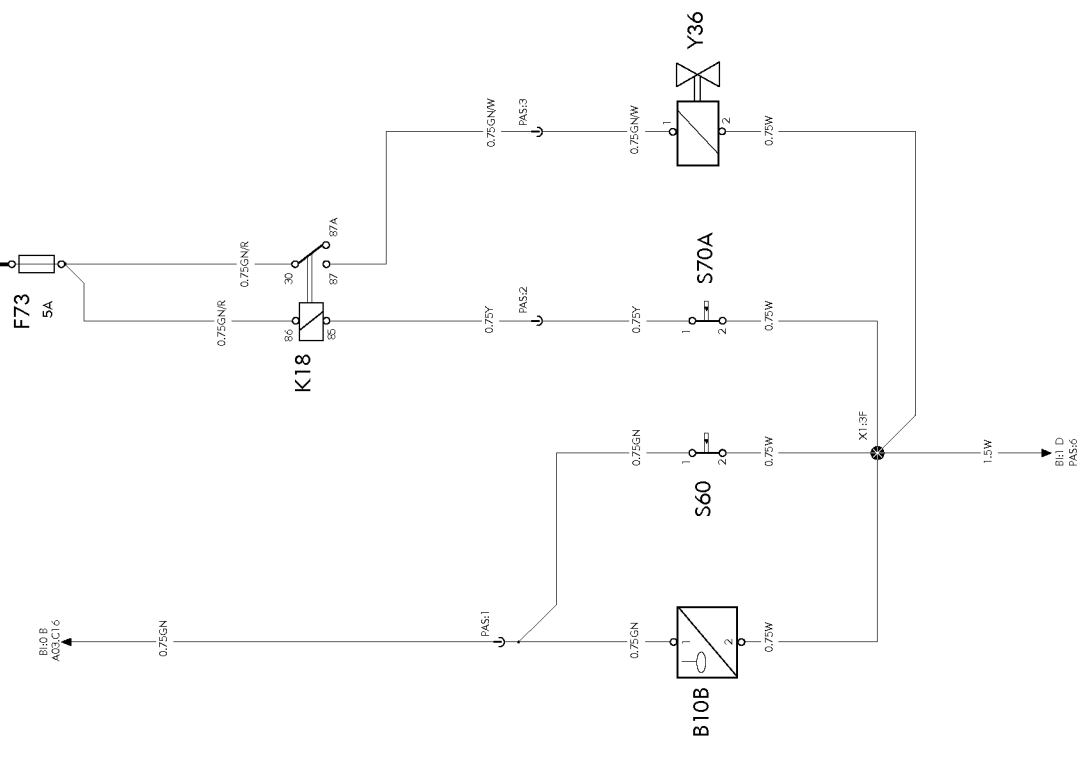


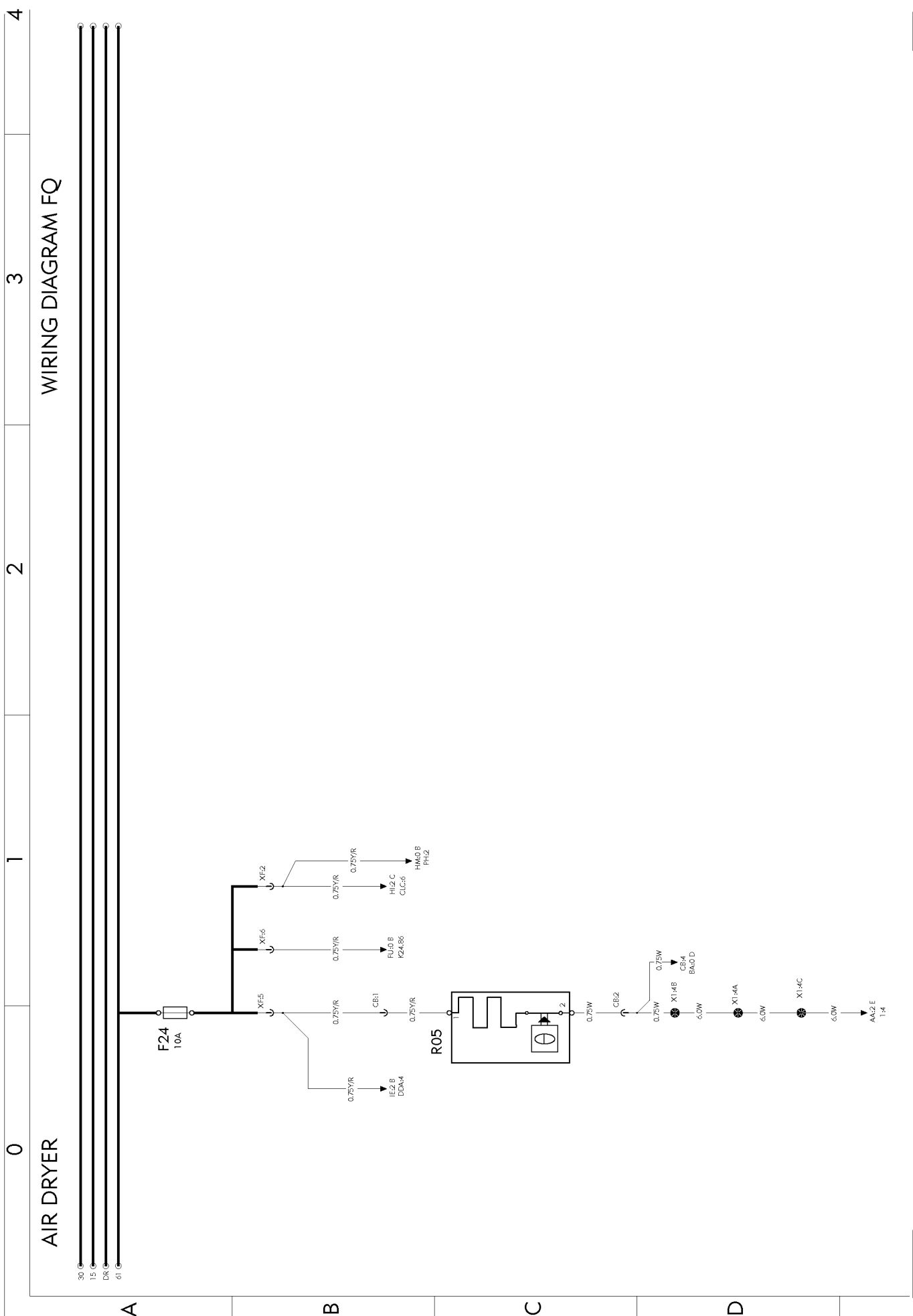
A

B

C

D





WIRING DIAGRAM FQ

AIR DRYER

A

B

C

D

4

3

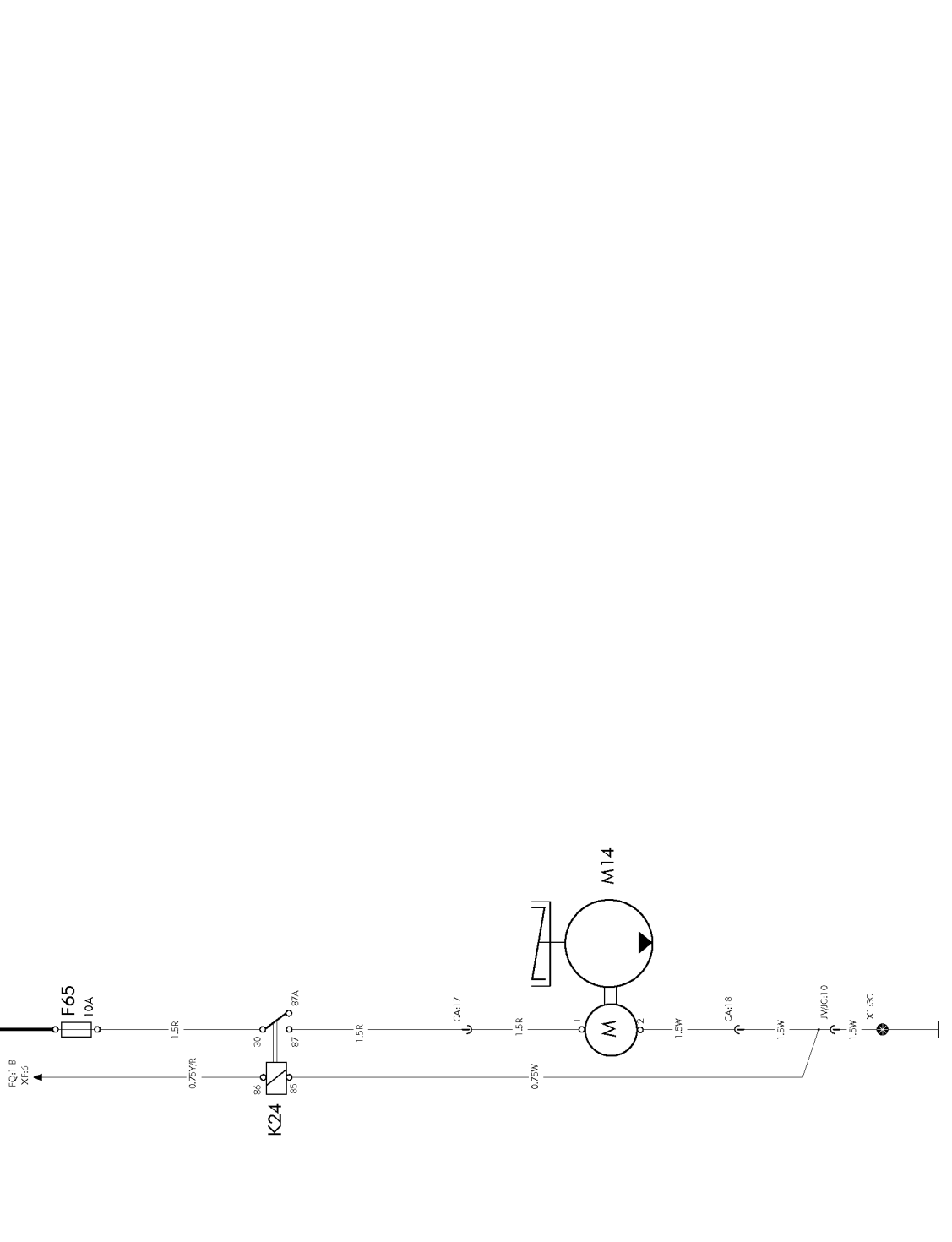
2

1

0

WIRING DIAGRAM FU

CENTRAL LUBRICATION SYSTEM



A

B

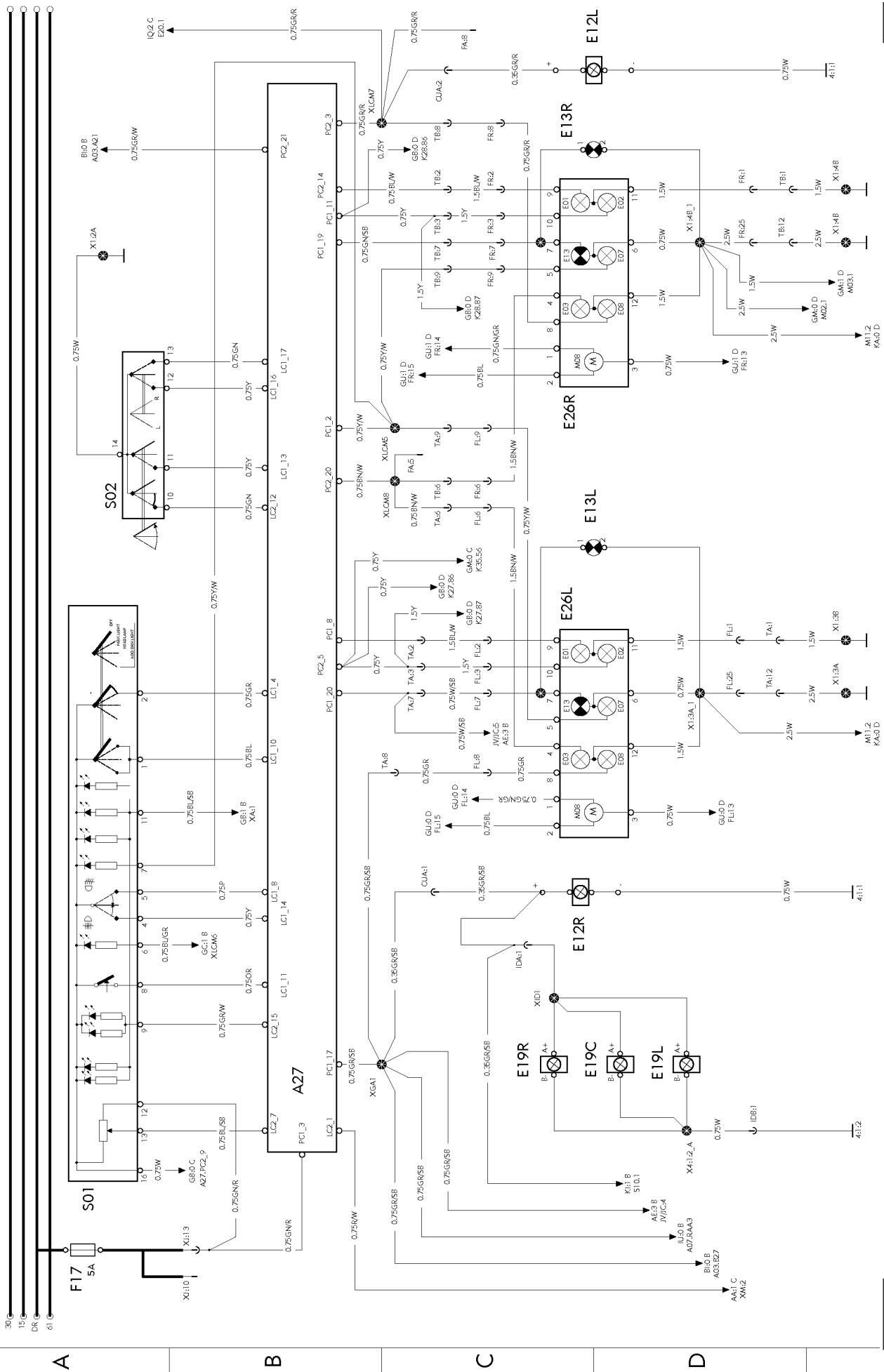
C

D

LCM

HEADLIGHTS

WIRING DIAGRAM GA



LCM

REAR LIGHTS

WIRING DIAGRAM GC

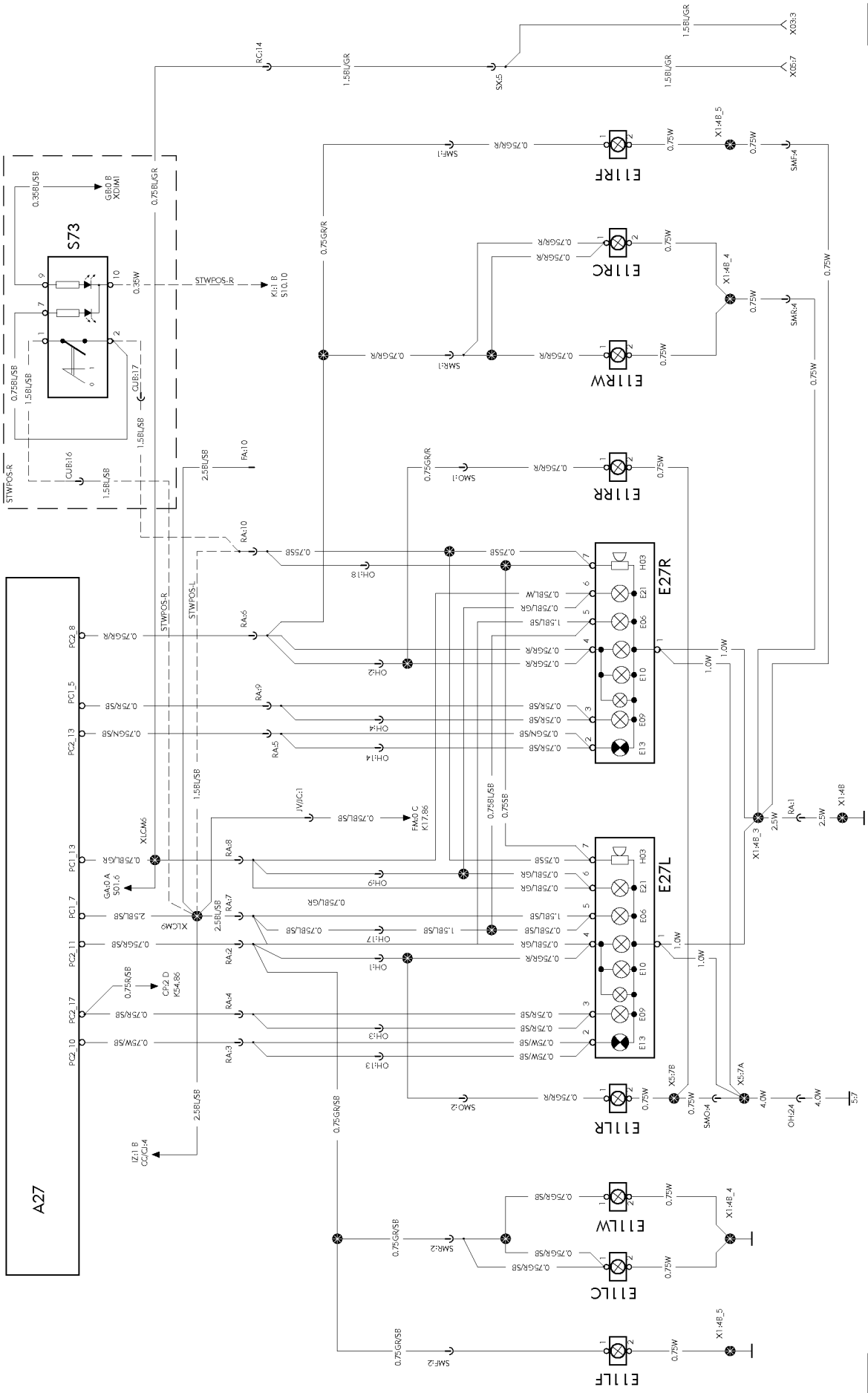
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3

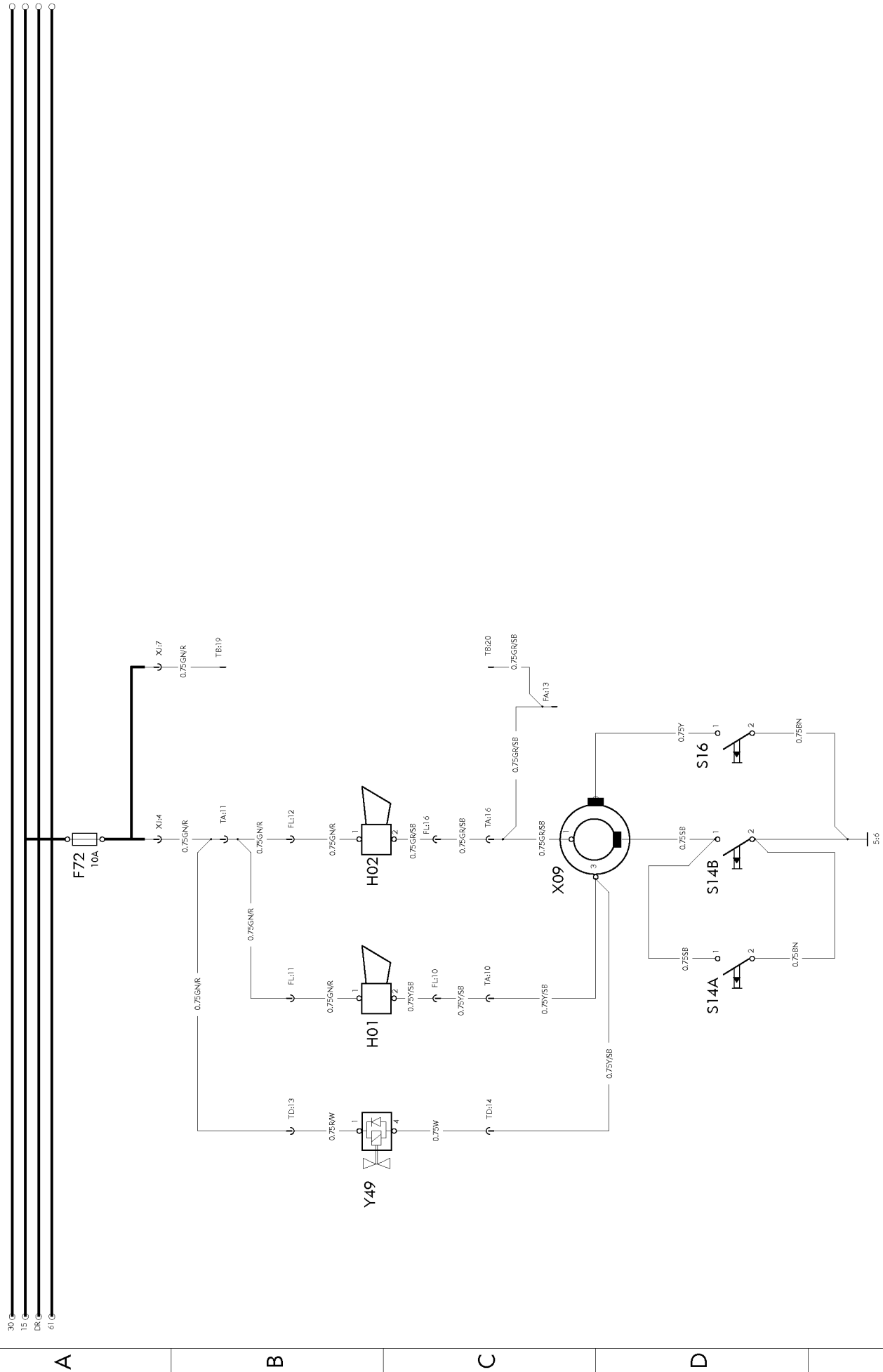
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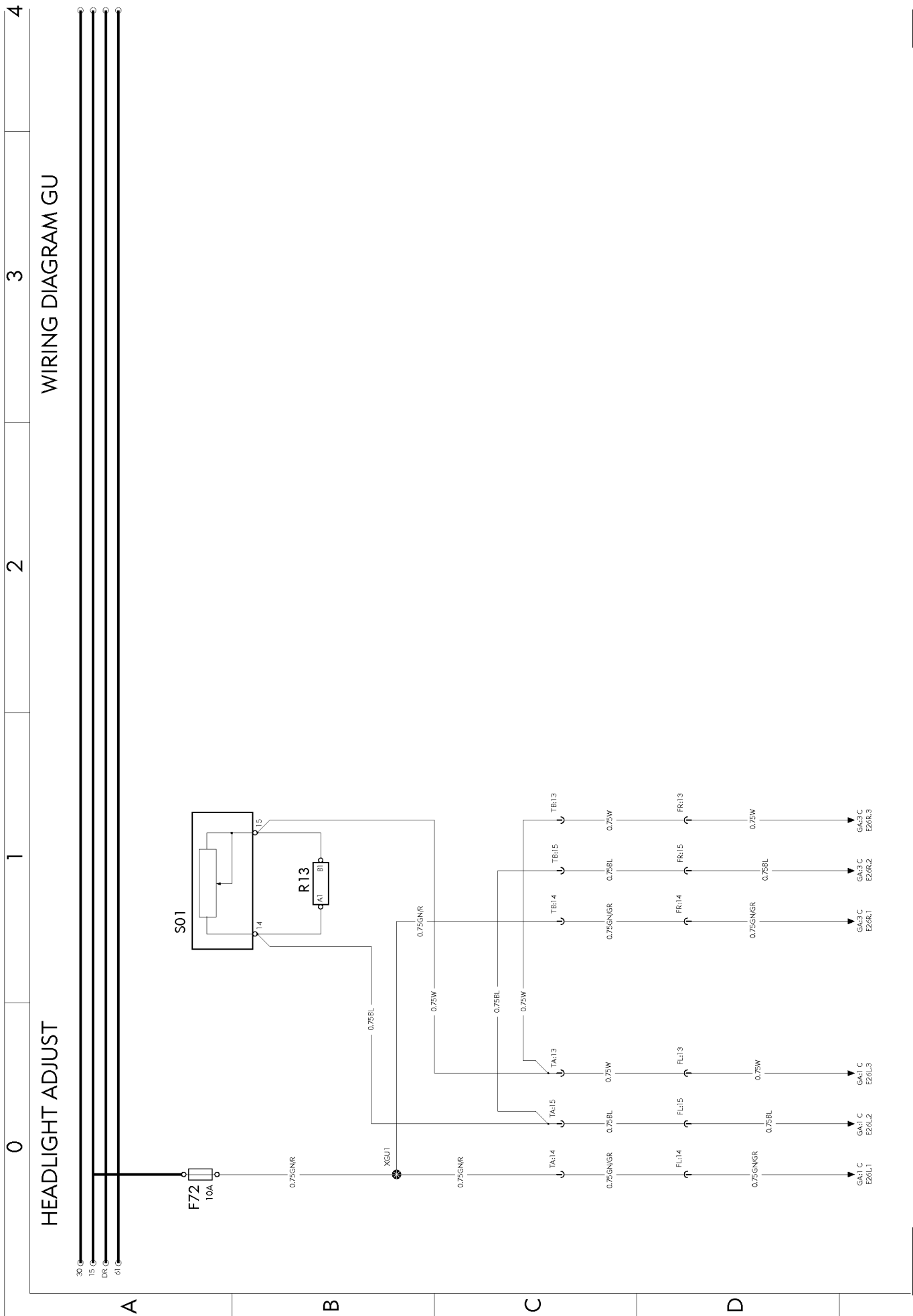
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0



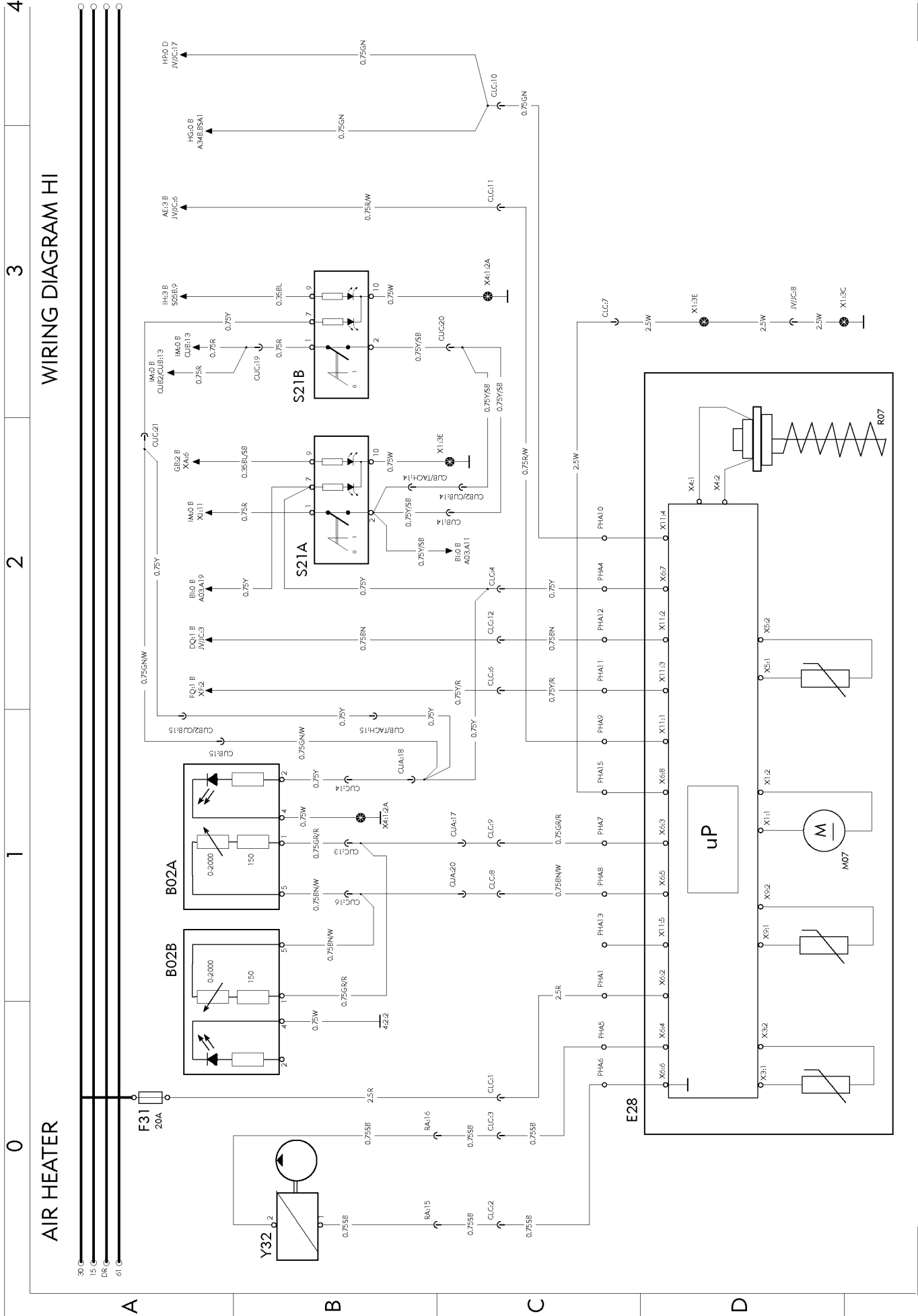
HORN WIRING DIAGRAM GQ





WIRING DIAGRAM GU

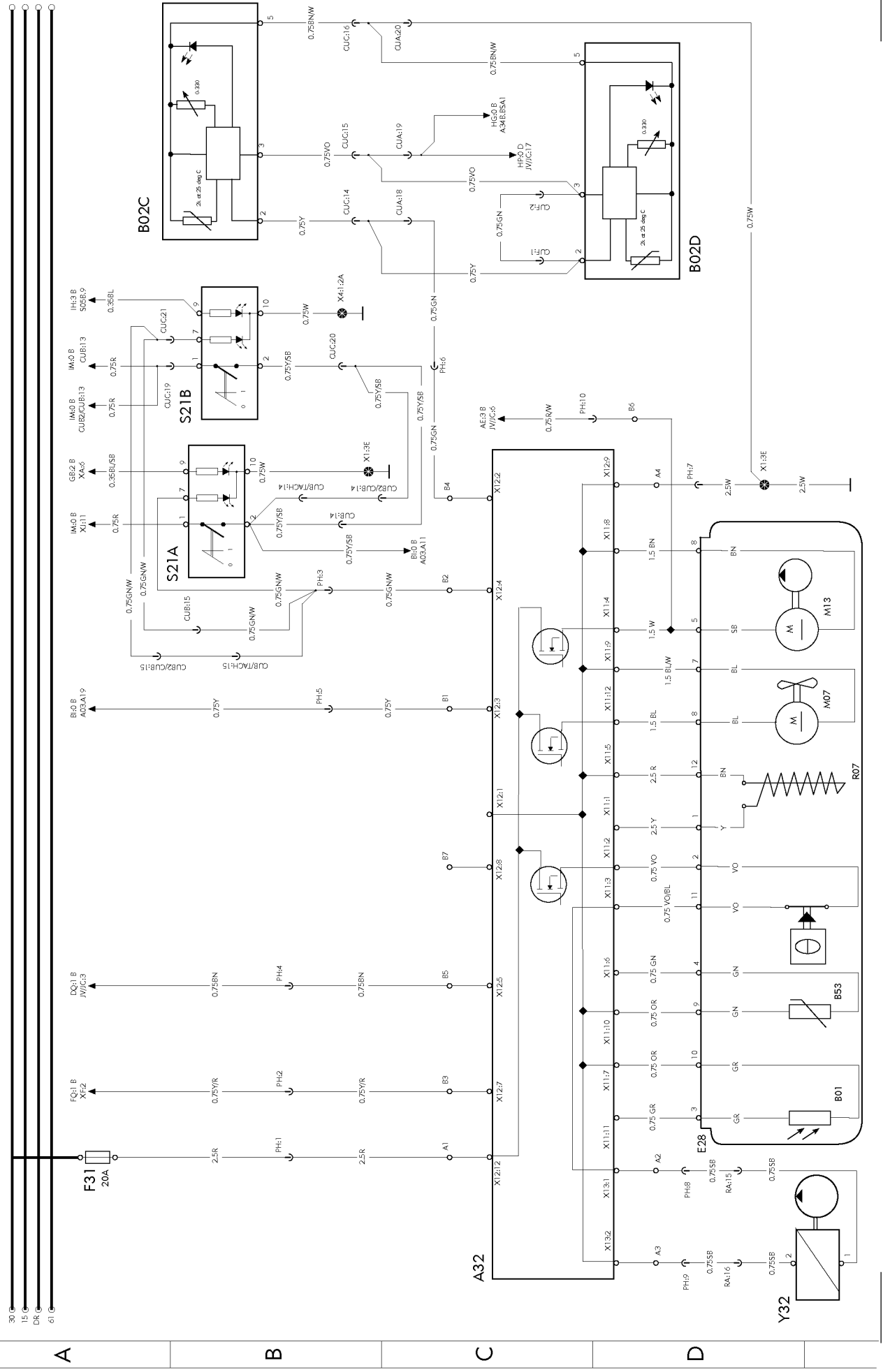
HEADLIGHT ADJUST



0 1 2 3 4

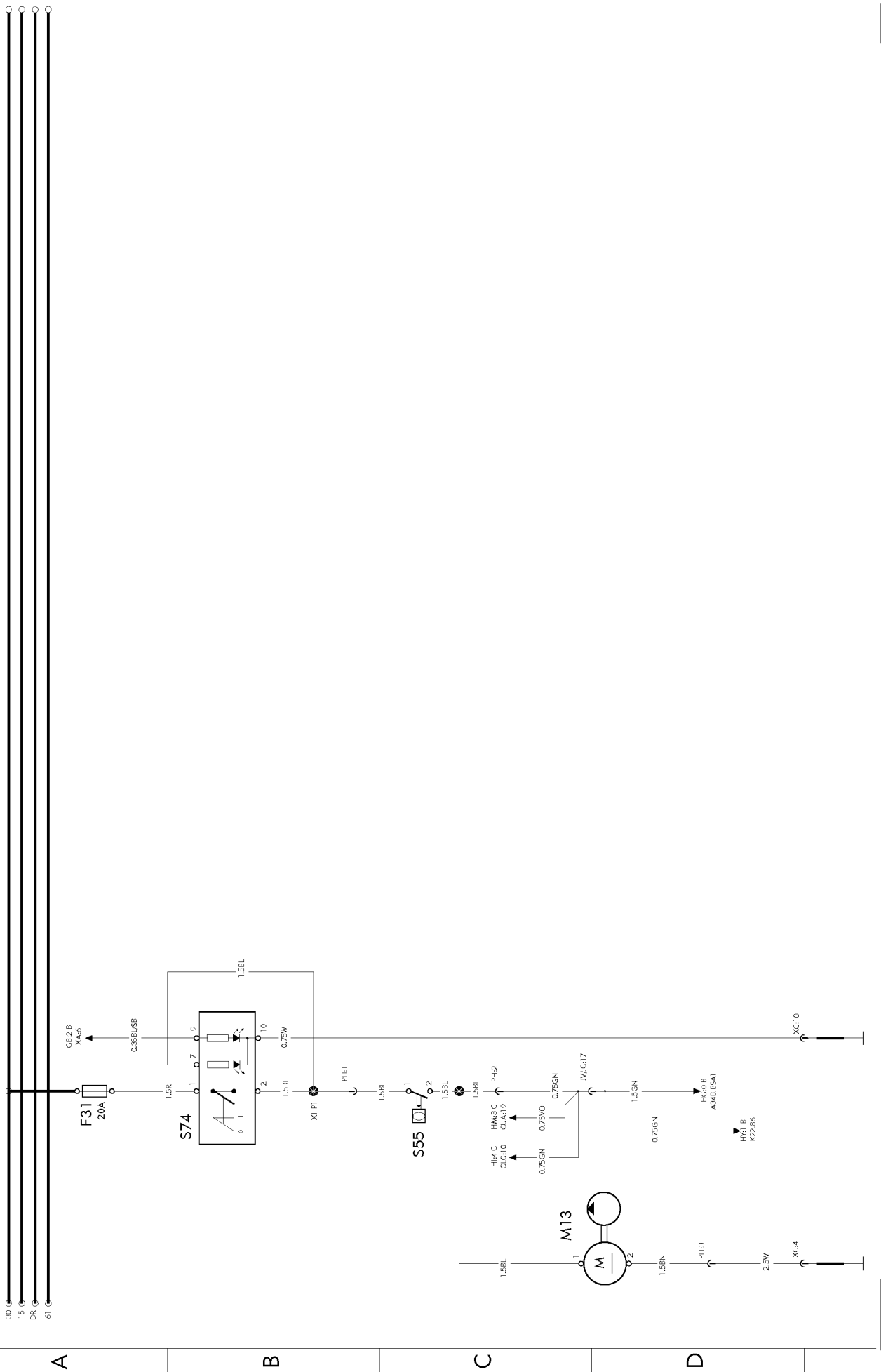
WIRING DIAGRAM HM

WATER HEATER

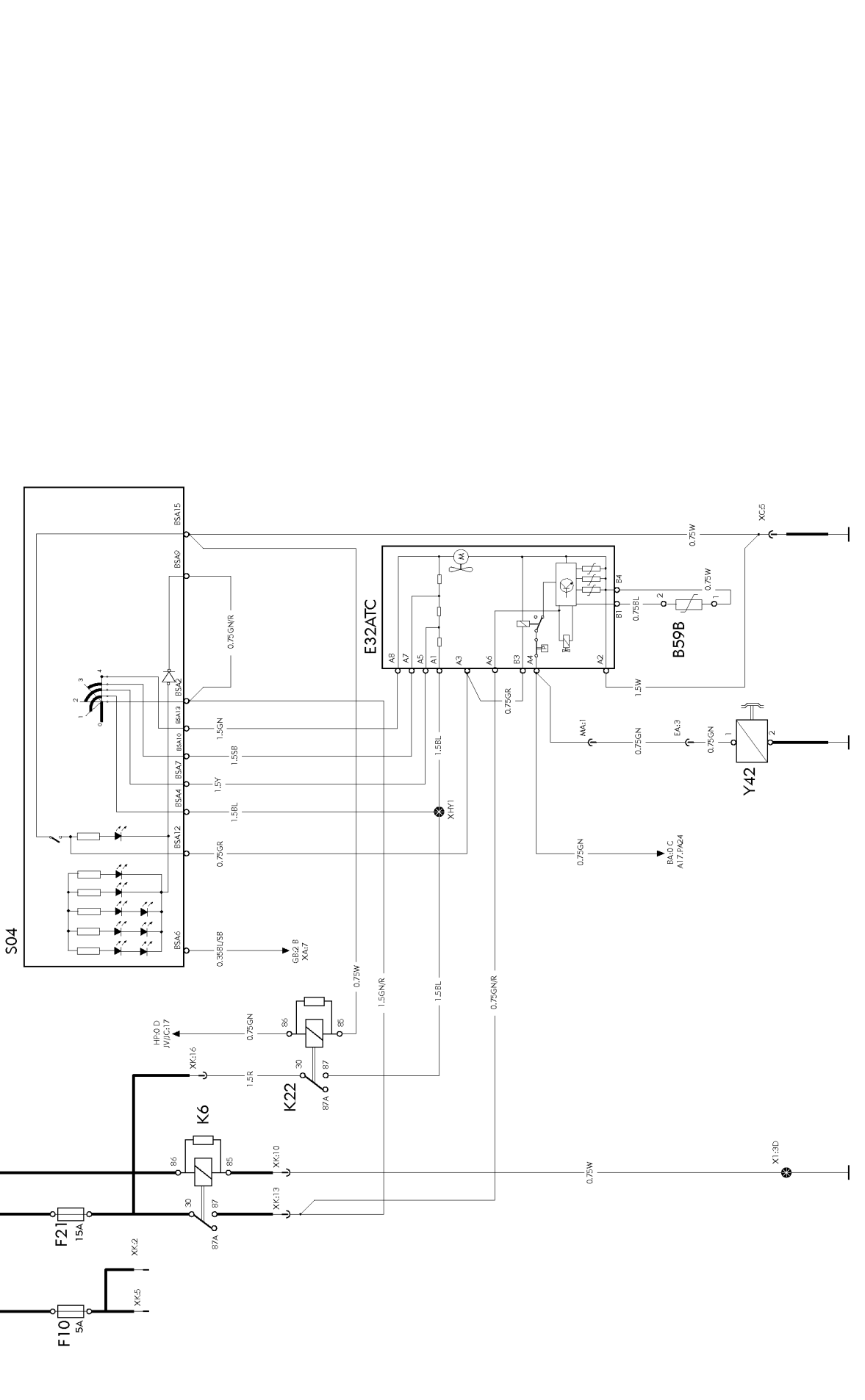


SHORT STOP CAB HEATER

WIRING DIAGRAM HP

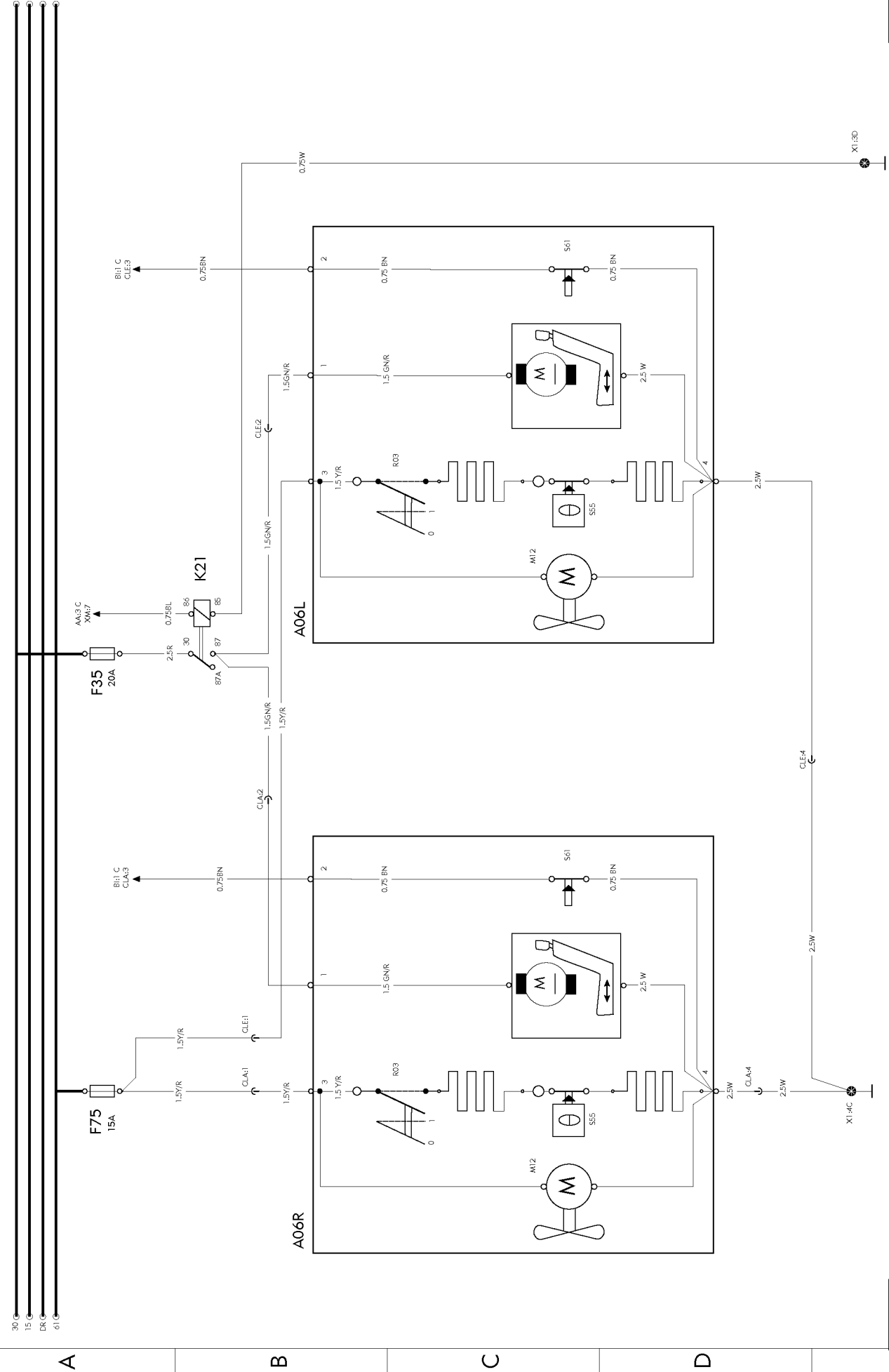


CU, -HEAT, -ACMAN, -ACAUT WIRING DIAGRAM HY



EL. HEATED/ADJ. SEAT

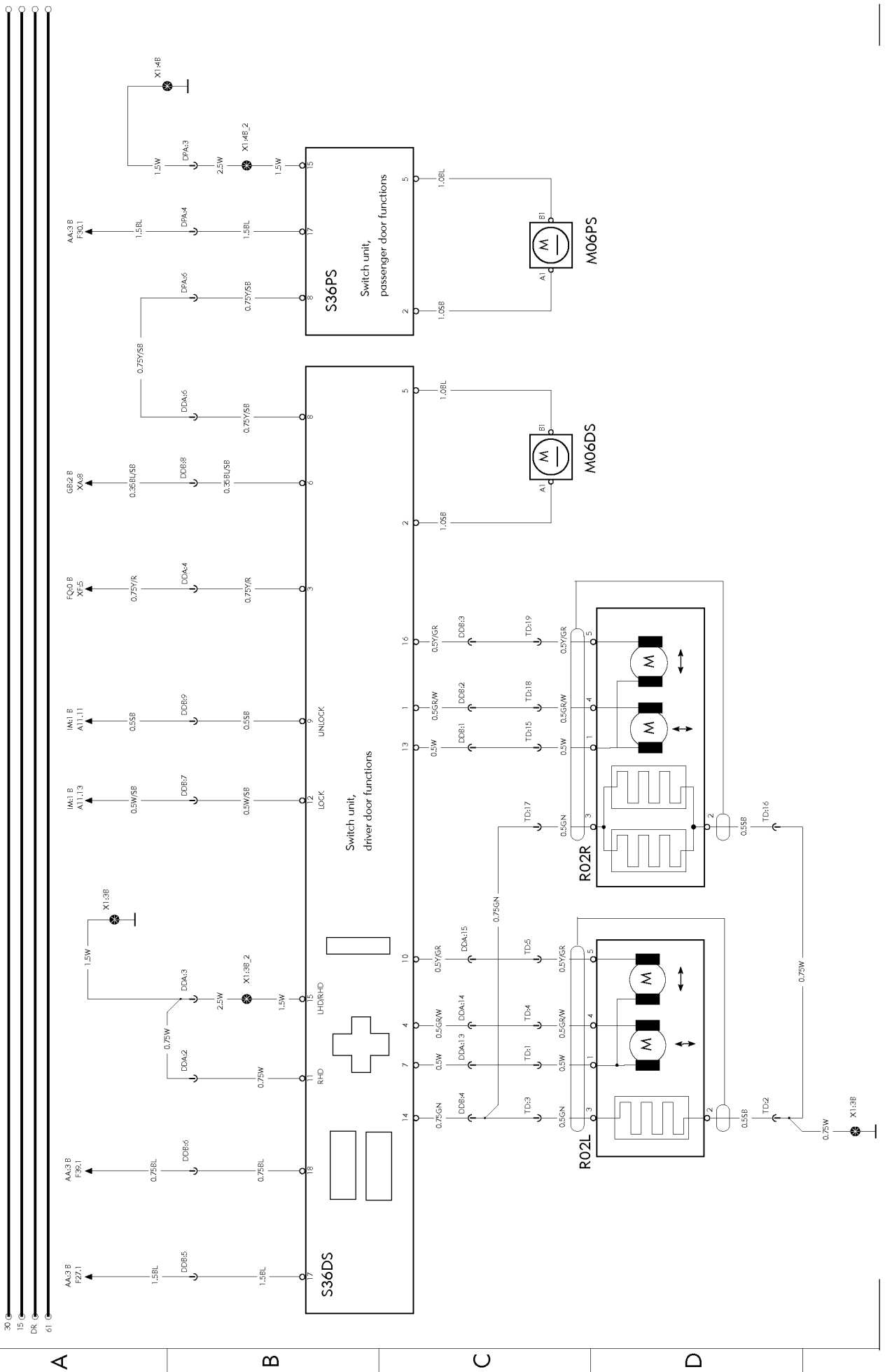
WIRING DIAGRAM IA



EL. HEAT/ADJ. MIRRORS

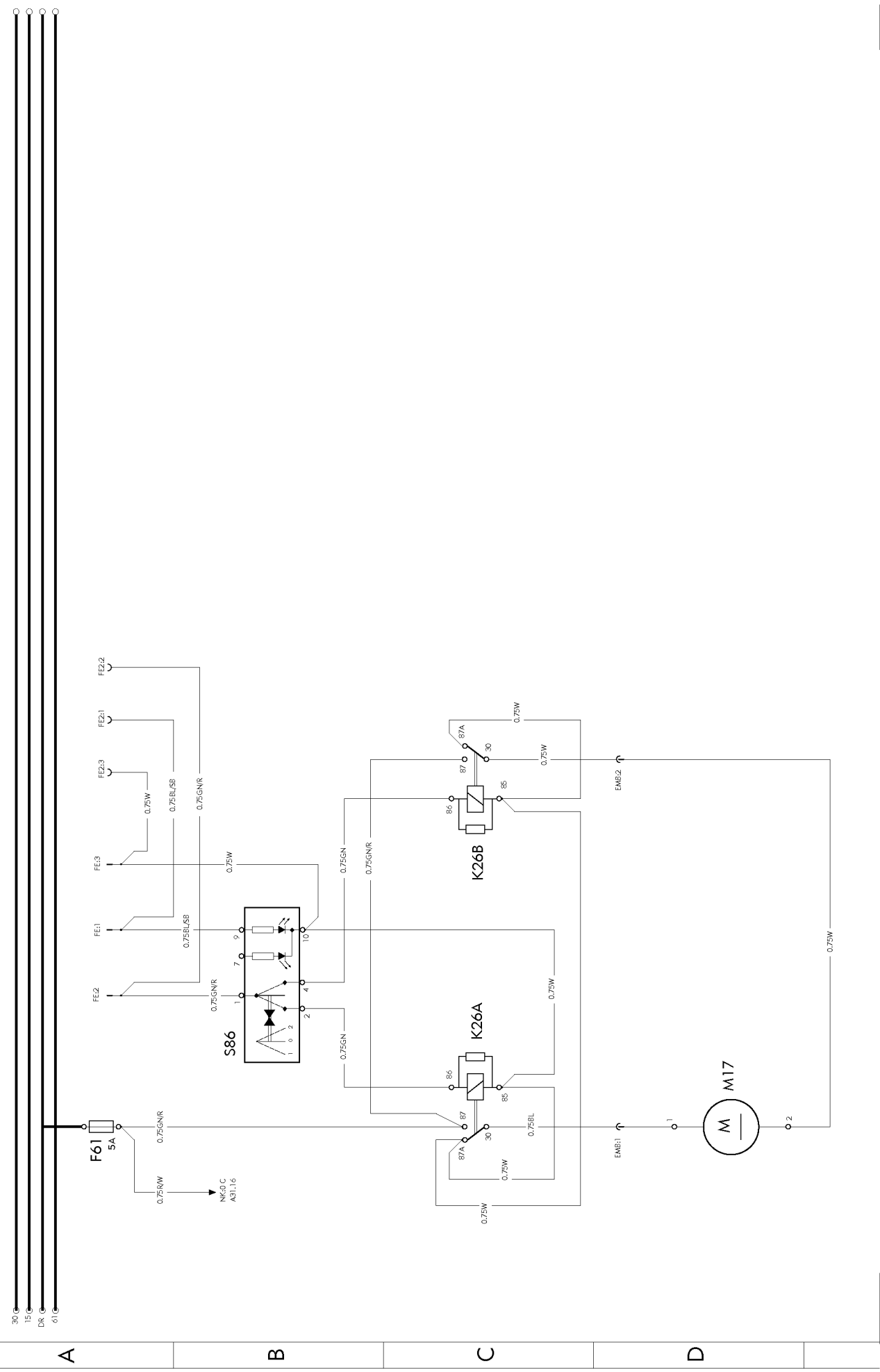
EL. WINDOW WINDERS

WIRING DIAGRAM IE



0 1 2 3 4

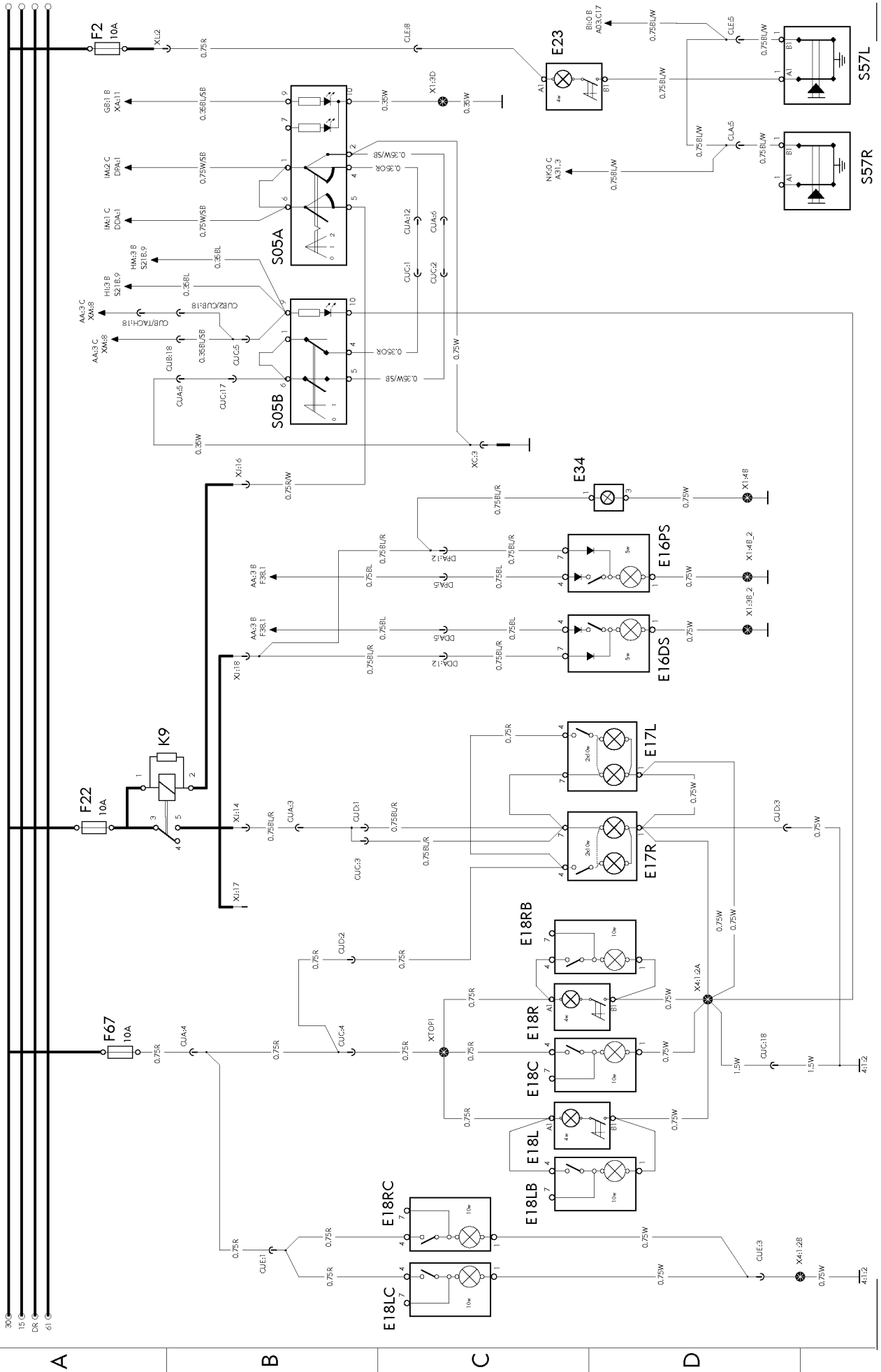
FOLDABLE MIRROR BRACKET WIRING DIAGRAM IF



0 1 2 3 4

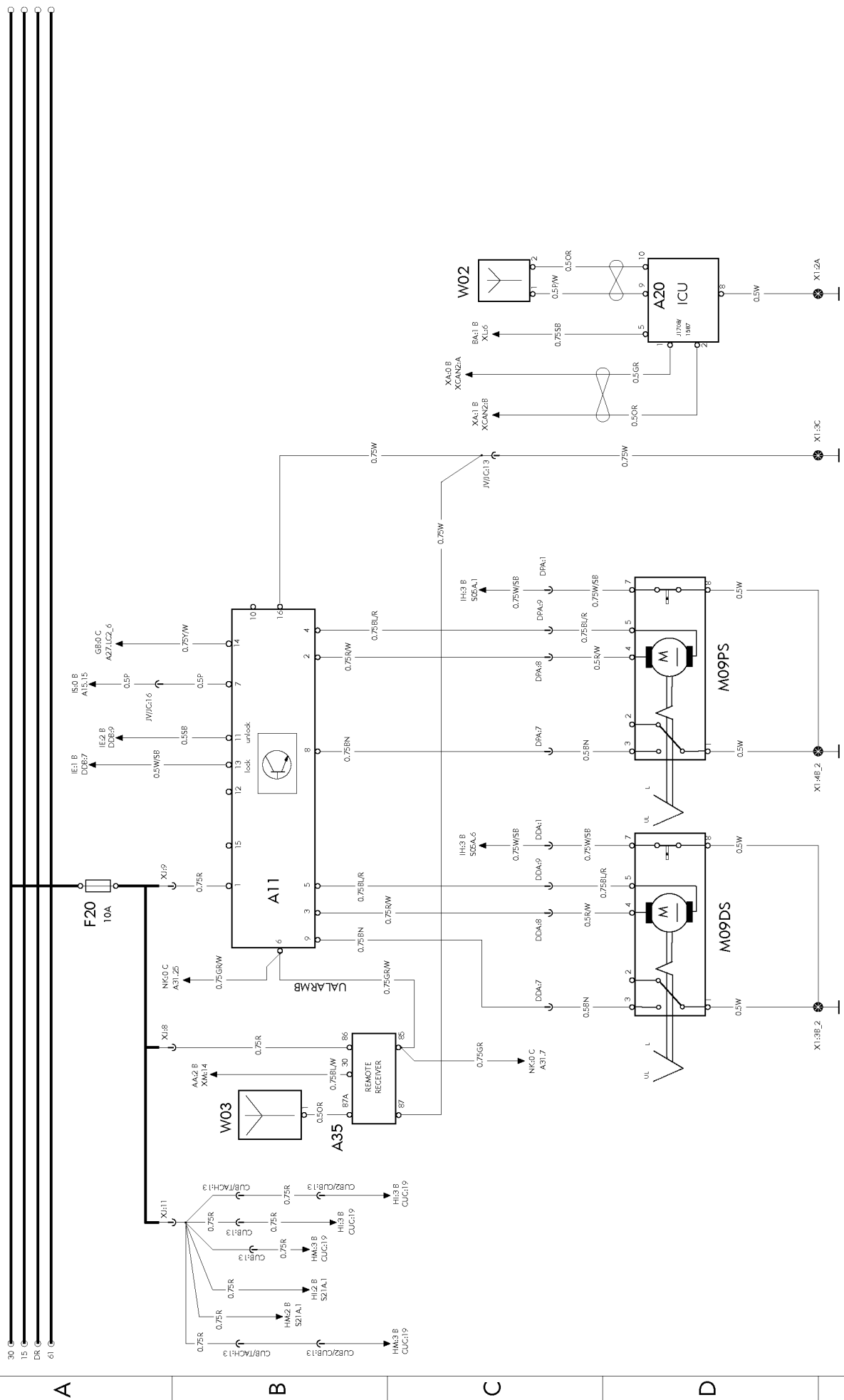
INTERIOR LIGHT

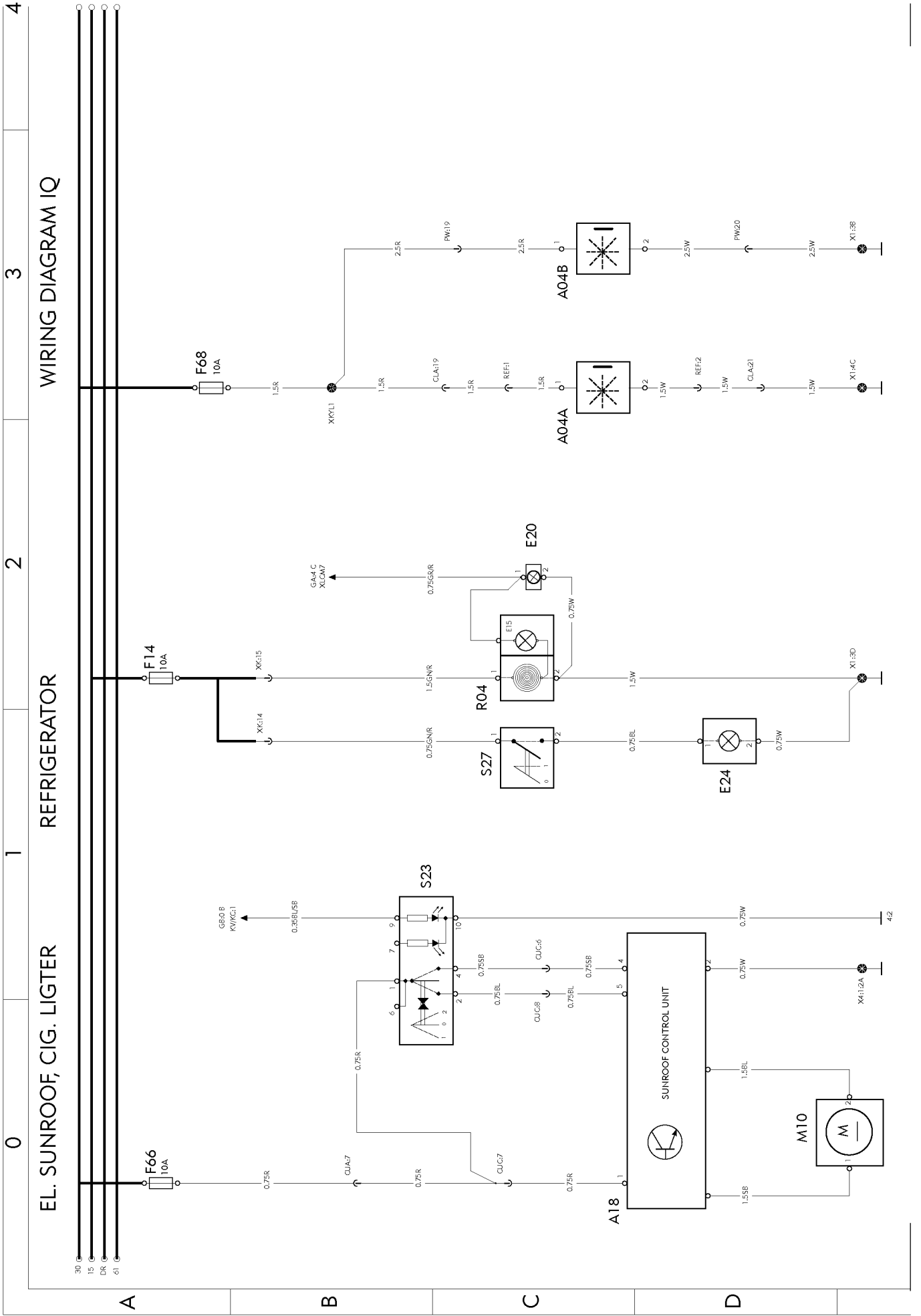
WIRING DIAGRAM IH

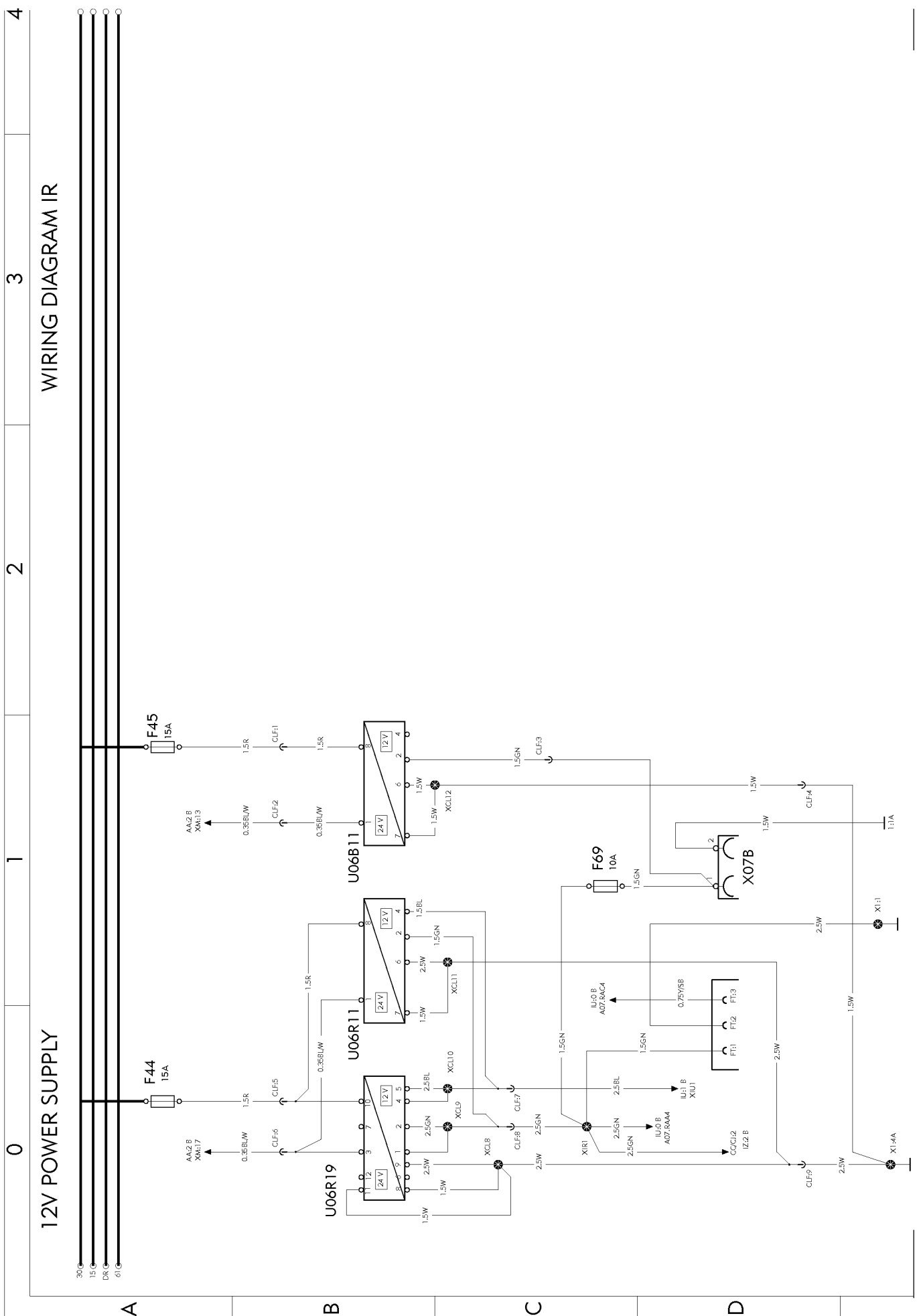


CENTRAL LOCKING, IMMOBILISER

WIRING DIAGRAM IM







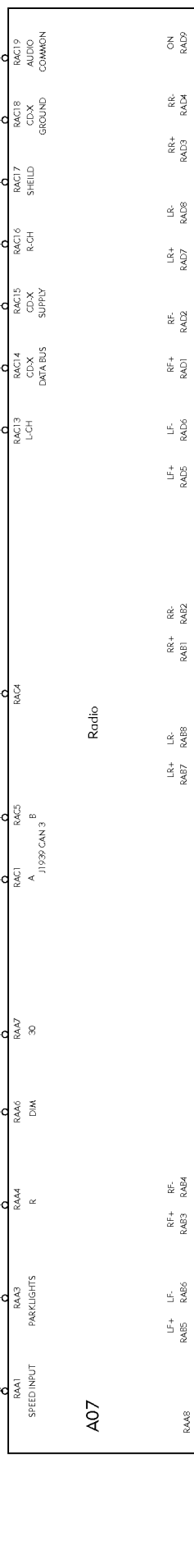
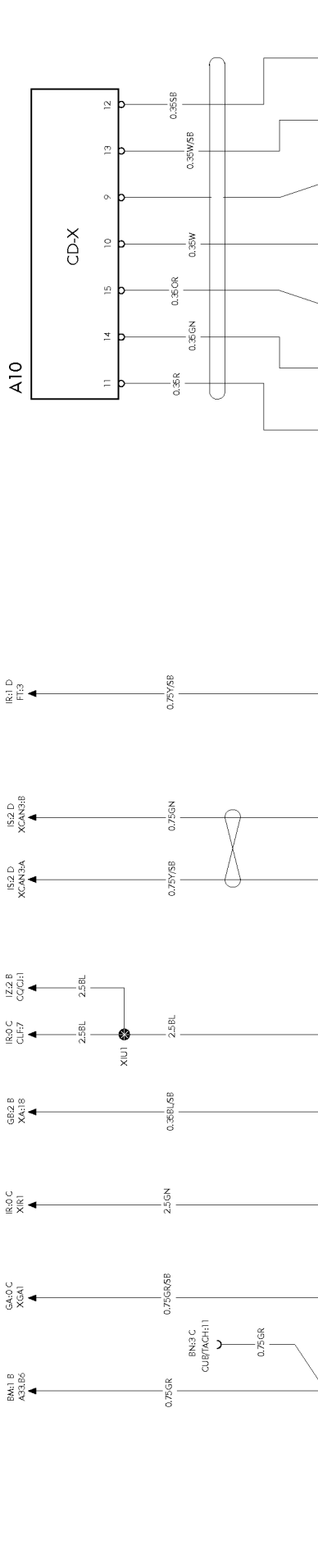
12V POWER SUPPLY

WIRING DIAGRAM IR

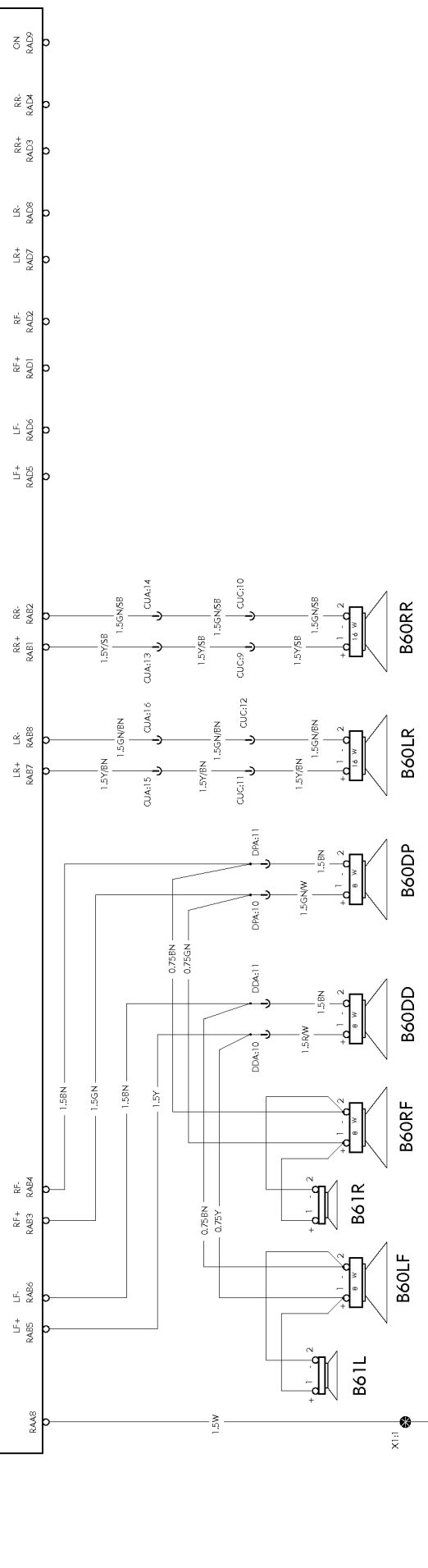
	0	1	2	3	4
A					
B					
C					
D					

RADIO

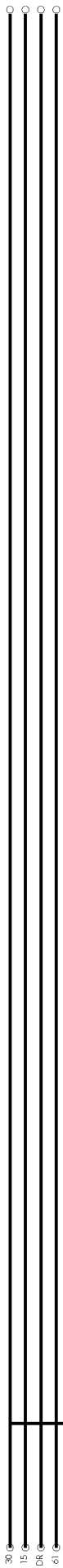
WIRING DIAGRAM IU



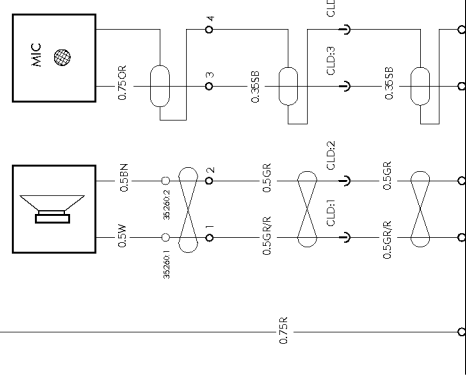
Radio



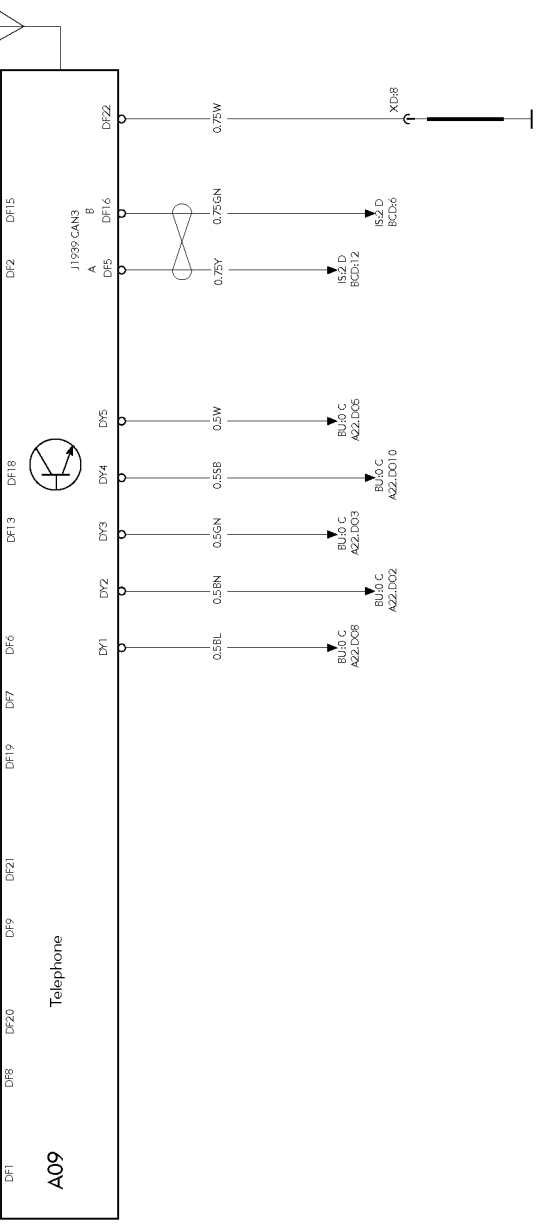
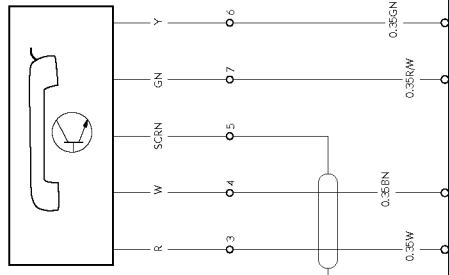
INTEGRATED TELEPHONE WIRING DIAGRAM IX

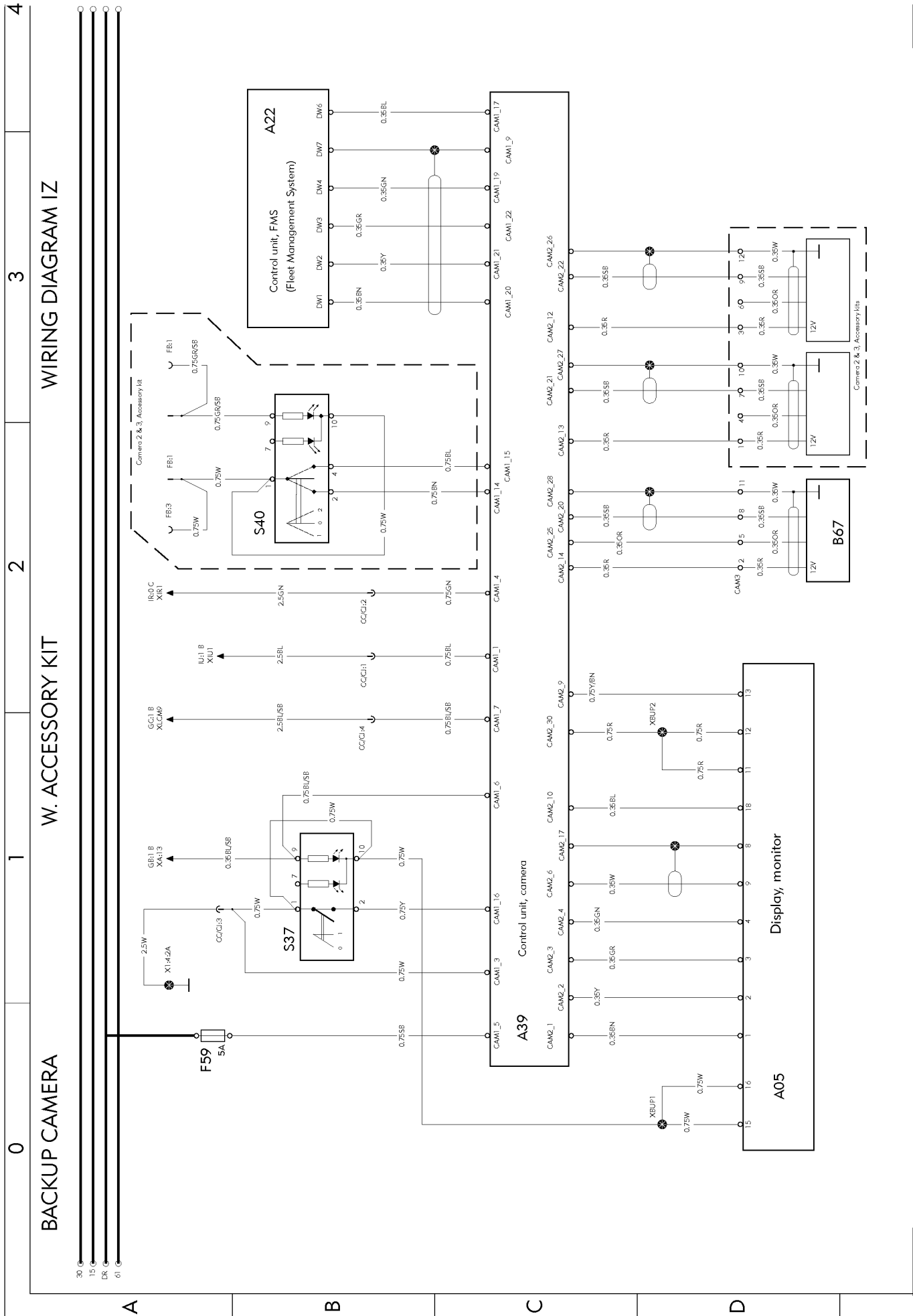


B80



A29

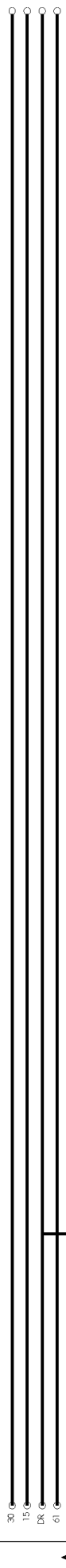




BACKUP CAMERA

W. ACCESSORY KIT

WIRING DIAGRAM IZ



A

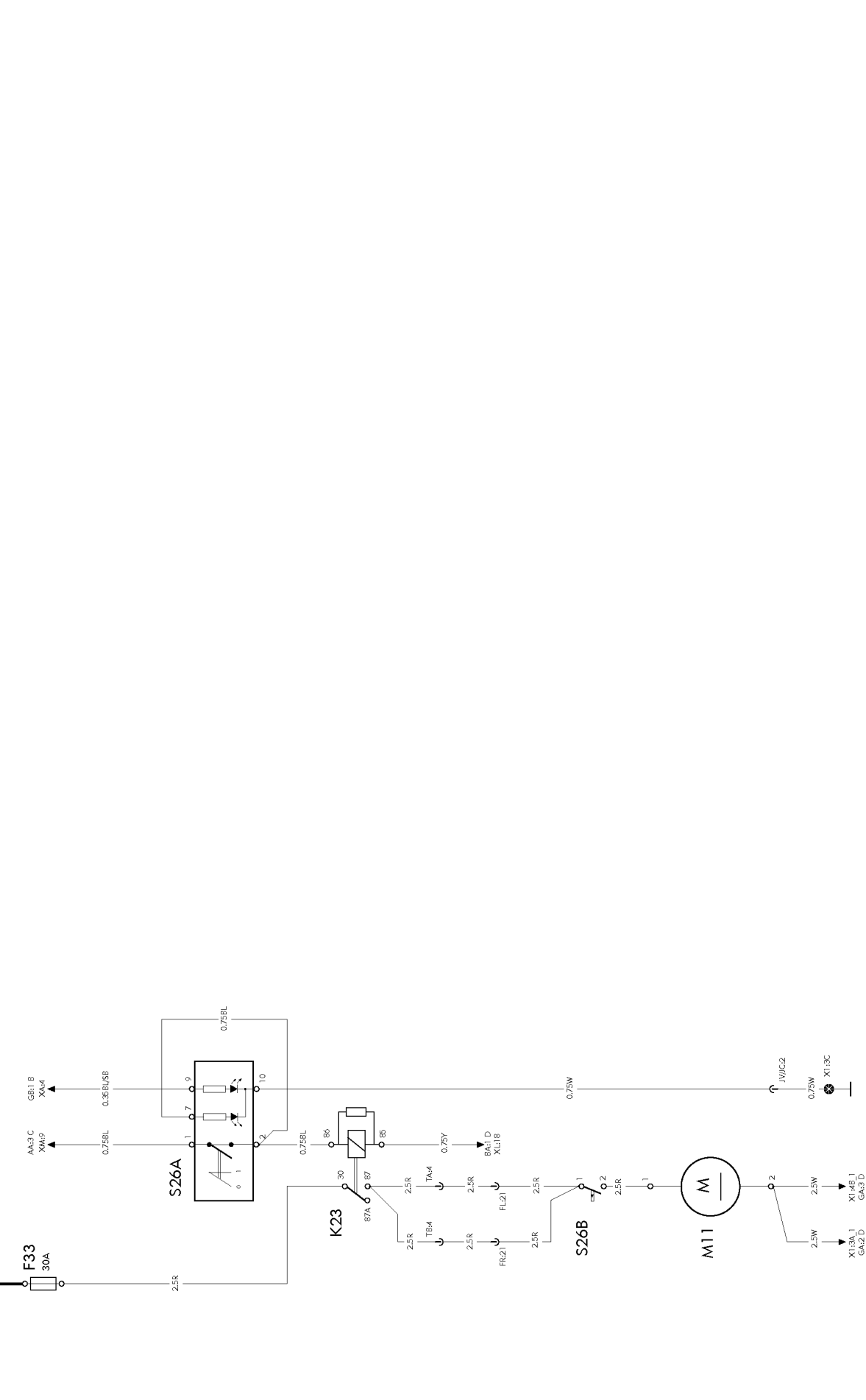
B

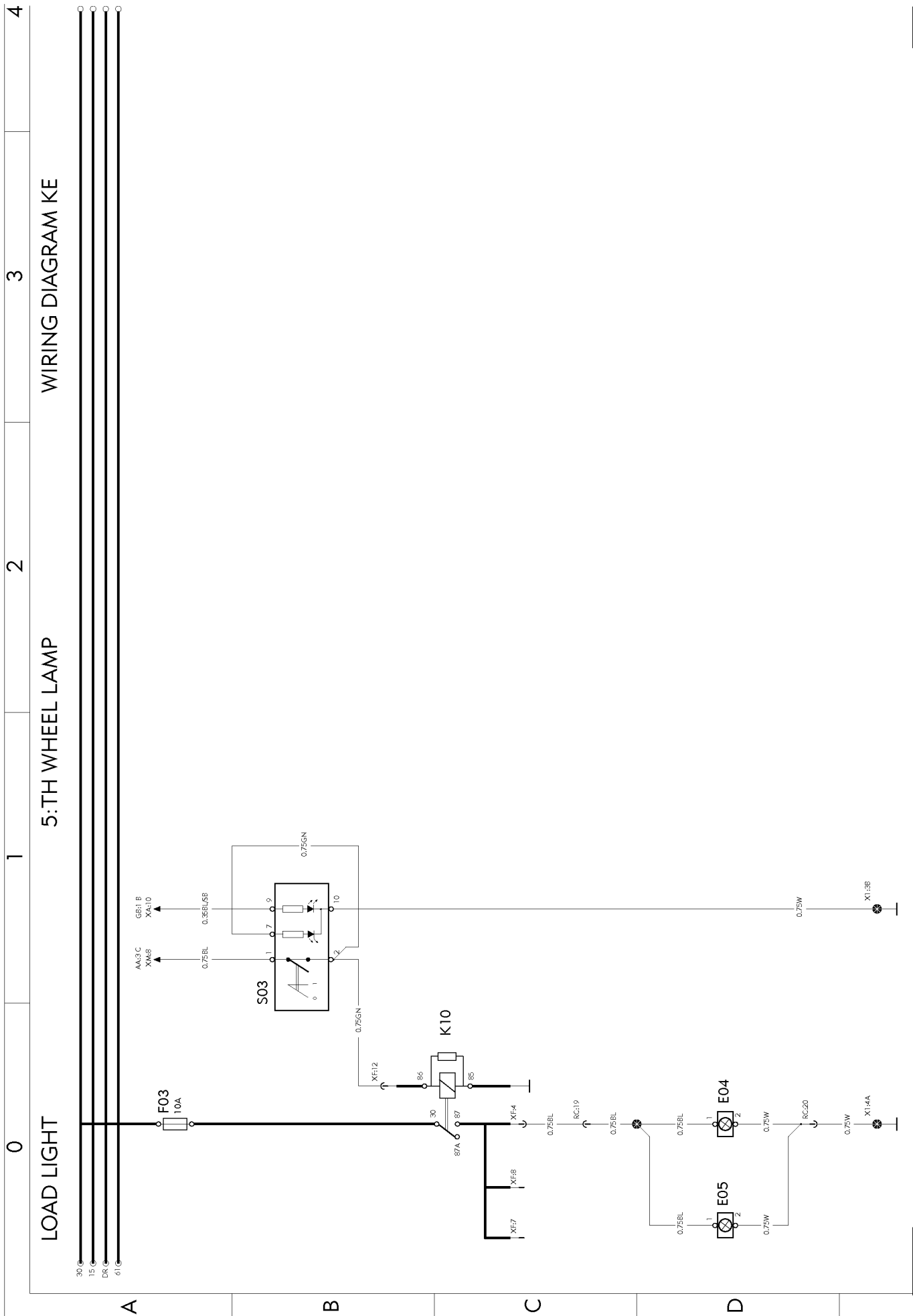
C

D

0 1 2 3 4

CAB TILT WIRING DIAGRAM KA

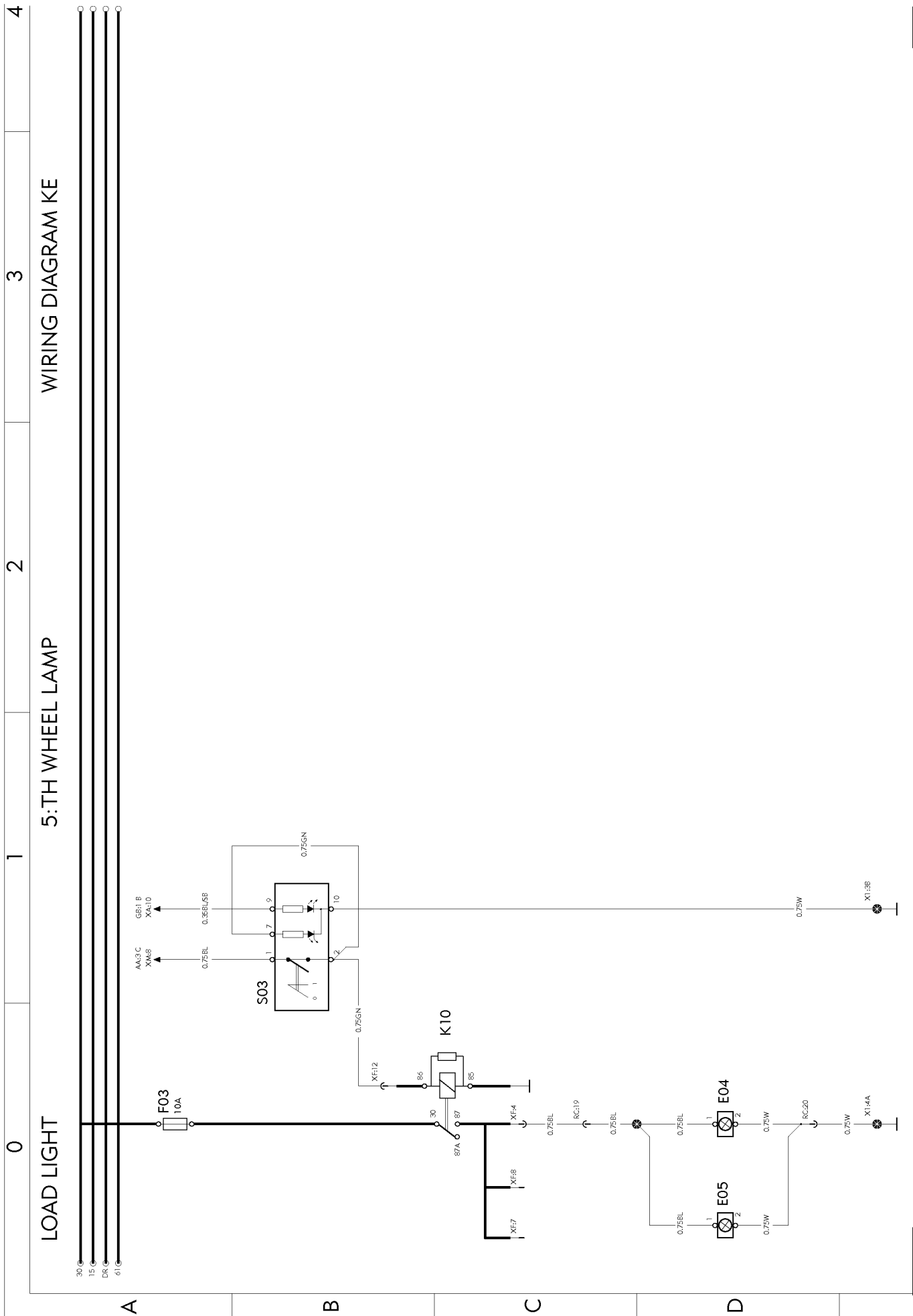




LOAD LIGHT

5:TH WHEEL LAMP

WIRING DIAGRAM KE



LOAD LIGHT

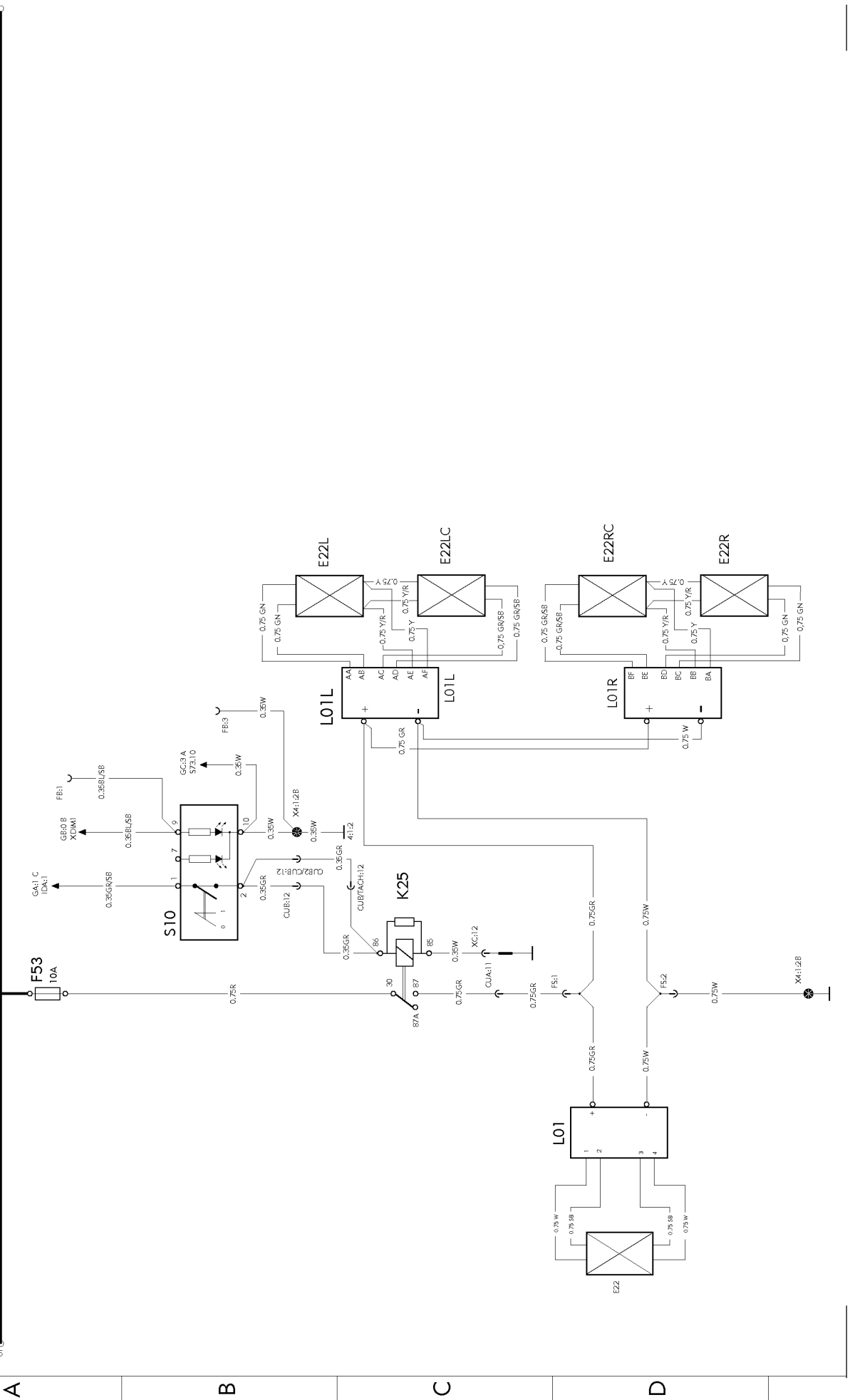
5:TH WHEEL LAMP

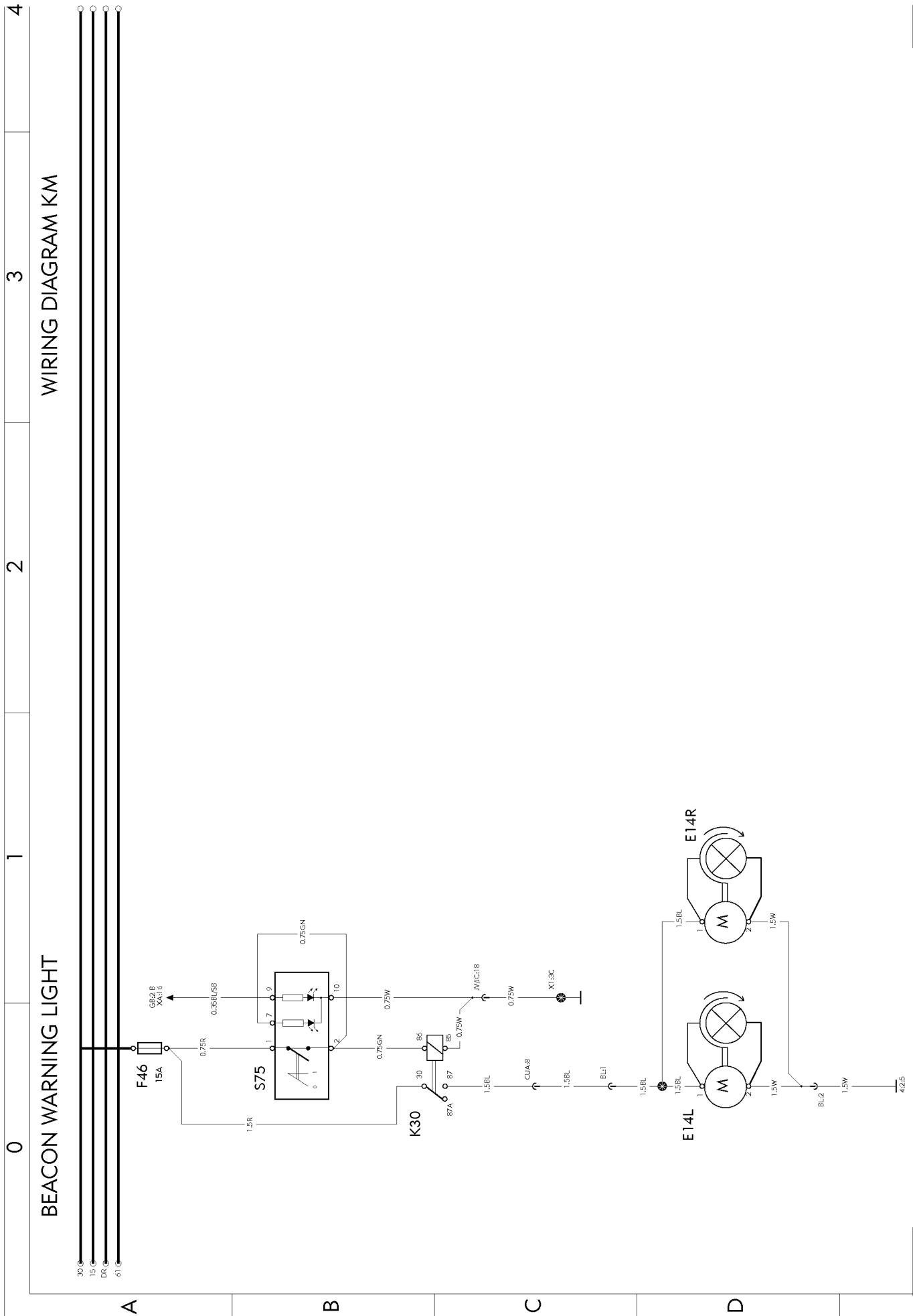
WIRING DIAGRAM KE

0 1 2 3 4

LIGHT SIGN

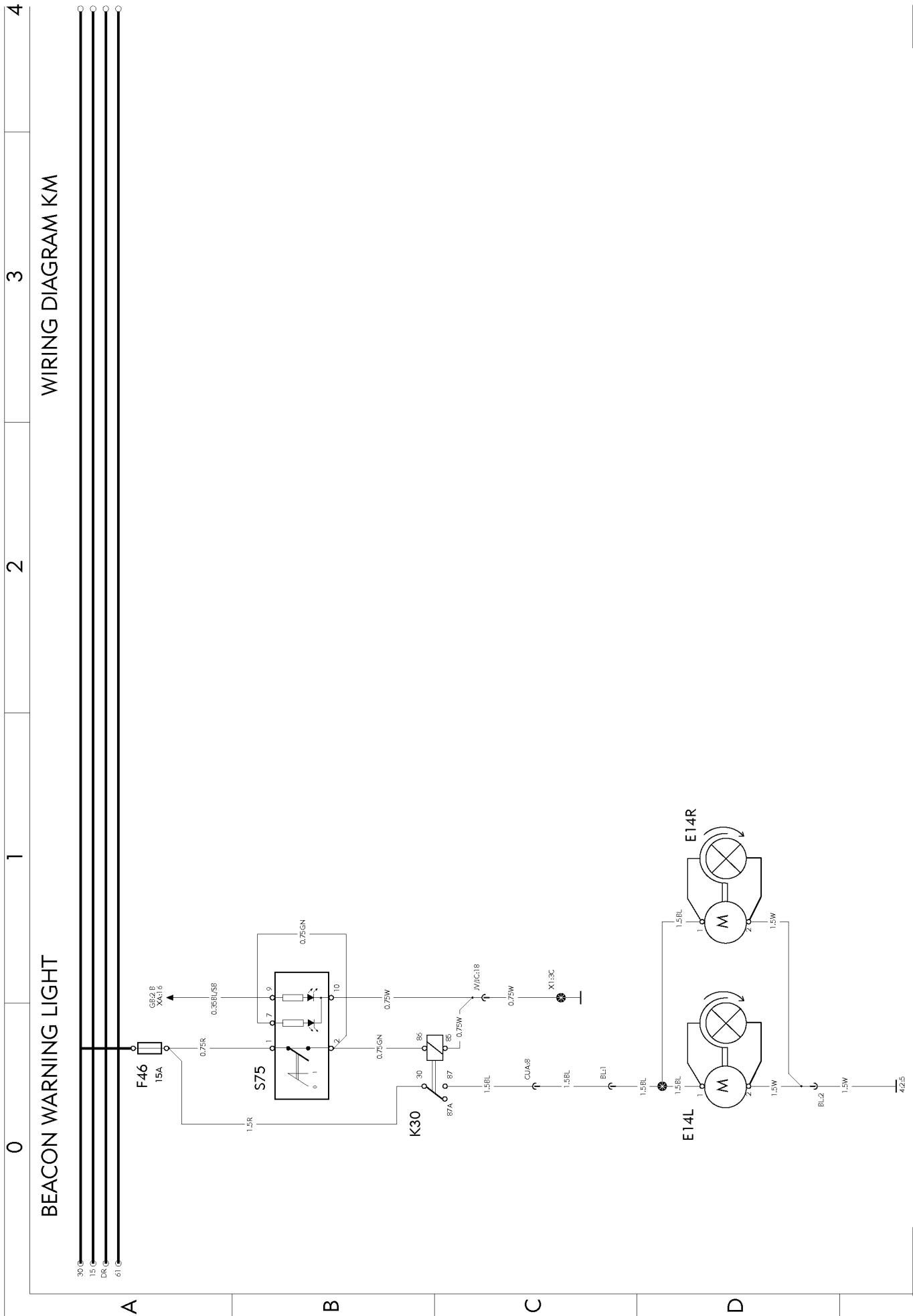
WIRING DIAGRAM KI





BEACON WARNING LIGHT

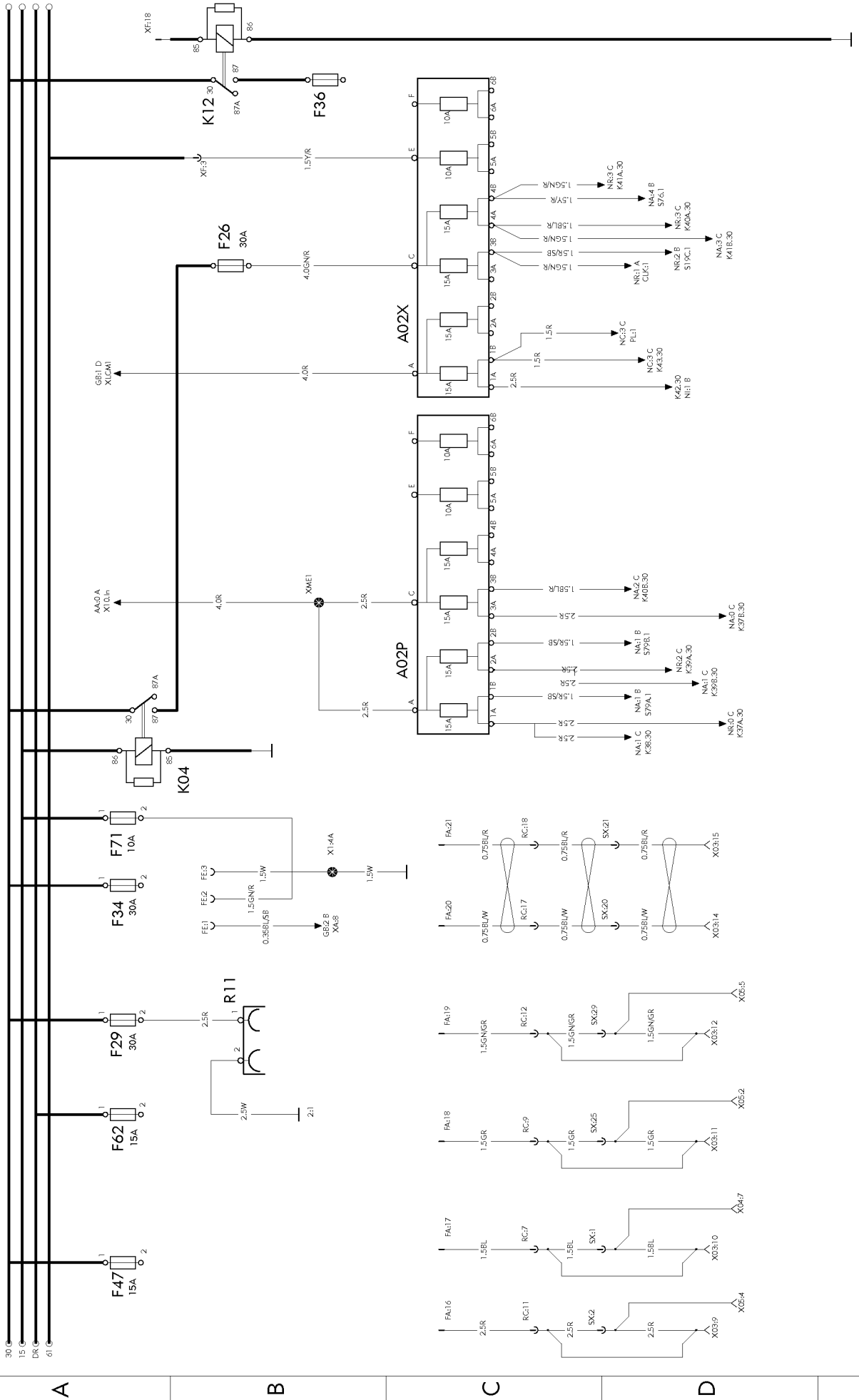
WIRING DIAGRAM KM



EXTRA FUSE BLOCK

KEY SWITCH RELAY

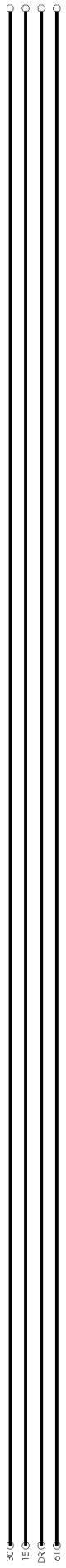
WIRING DIAGRAM ME



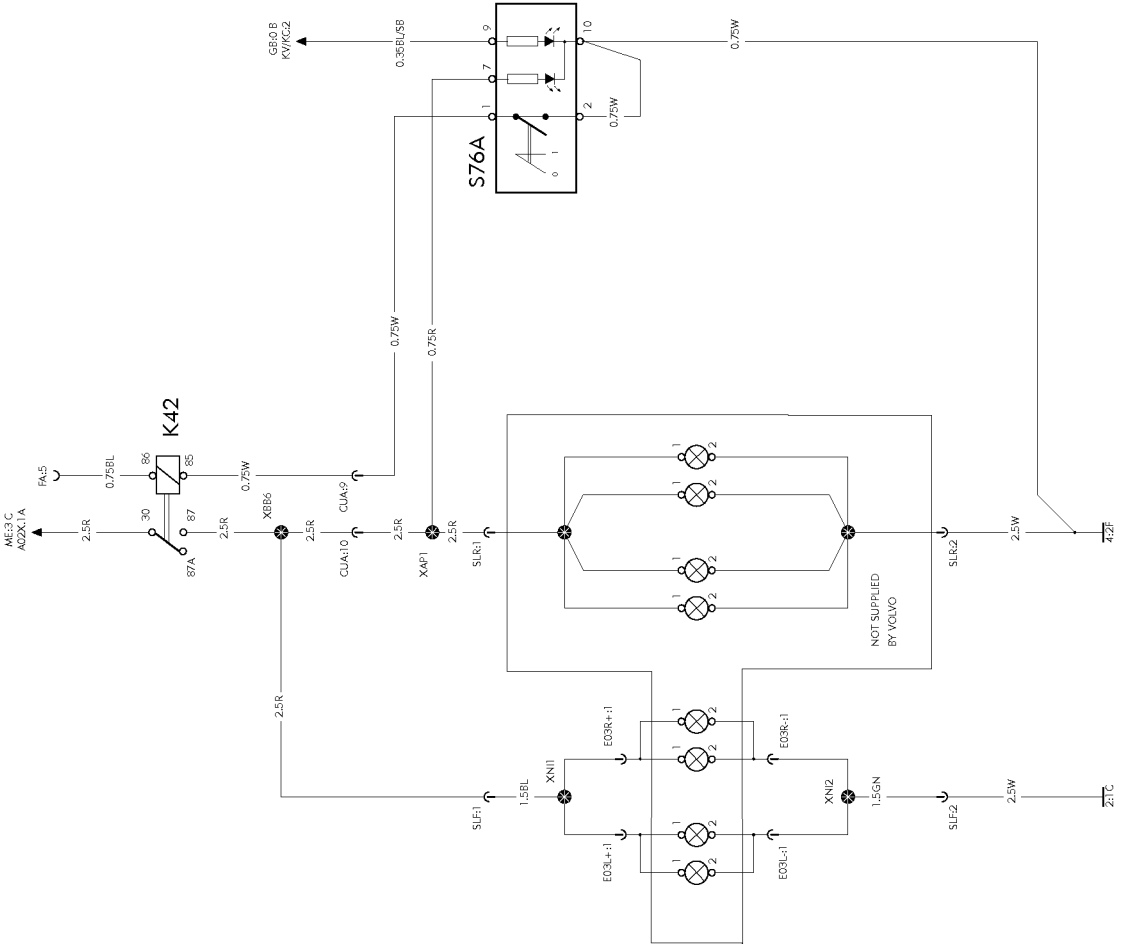
EXTRA SPOTLAMPS

FRONT/ROOF, MAX 4X70W

WIRING DIAGRAM NI



A



B

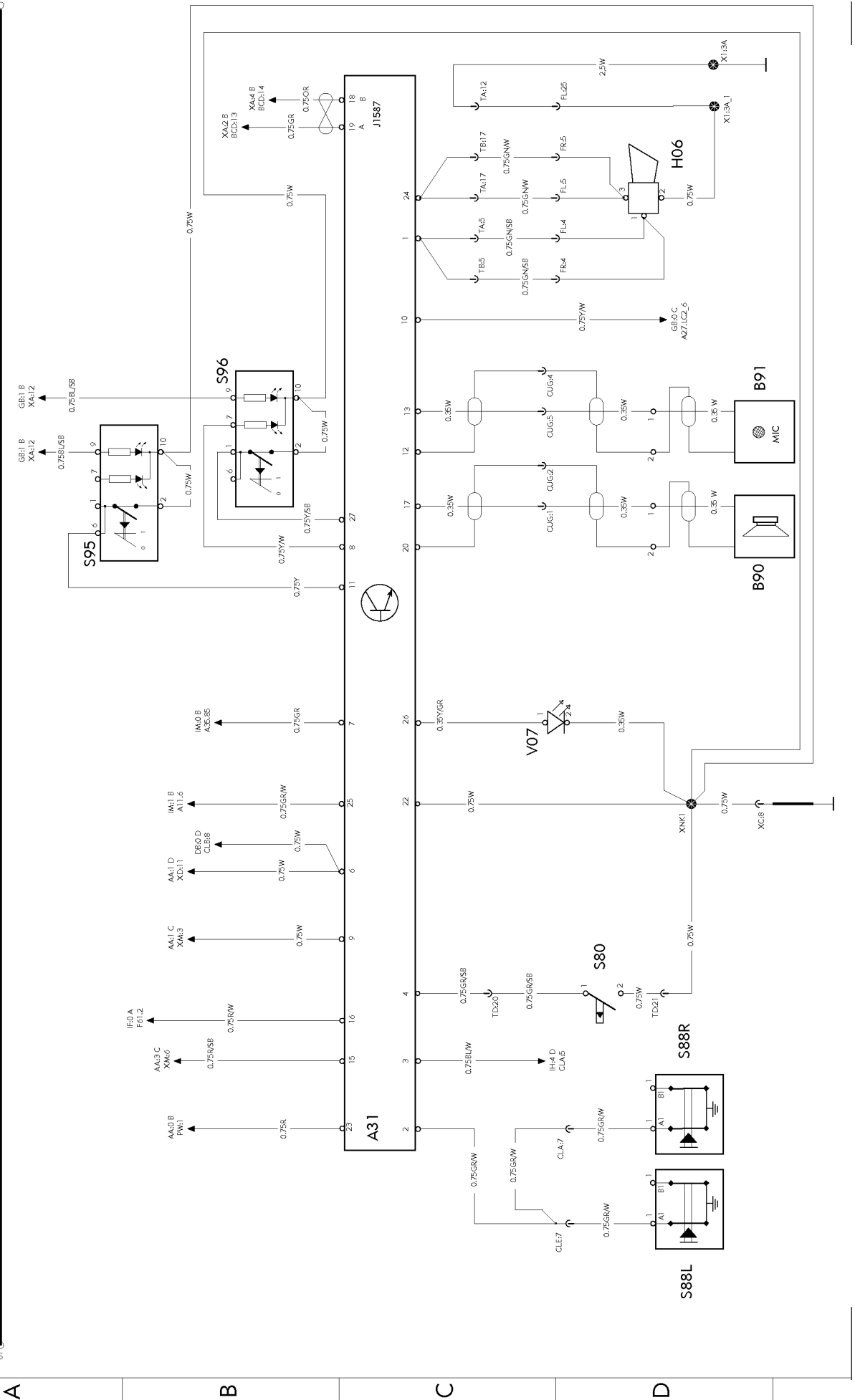
C

D

0 1 2 3 4

BURGLAR ALARM

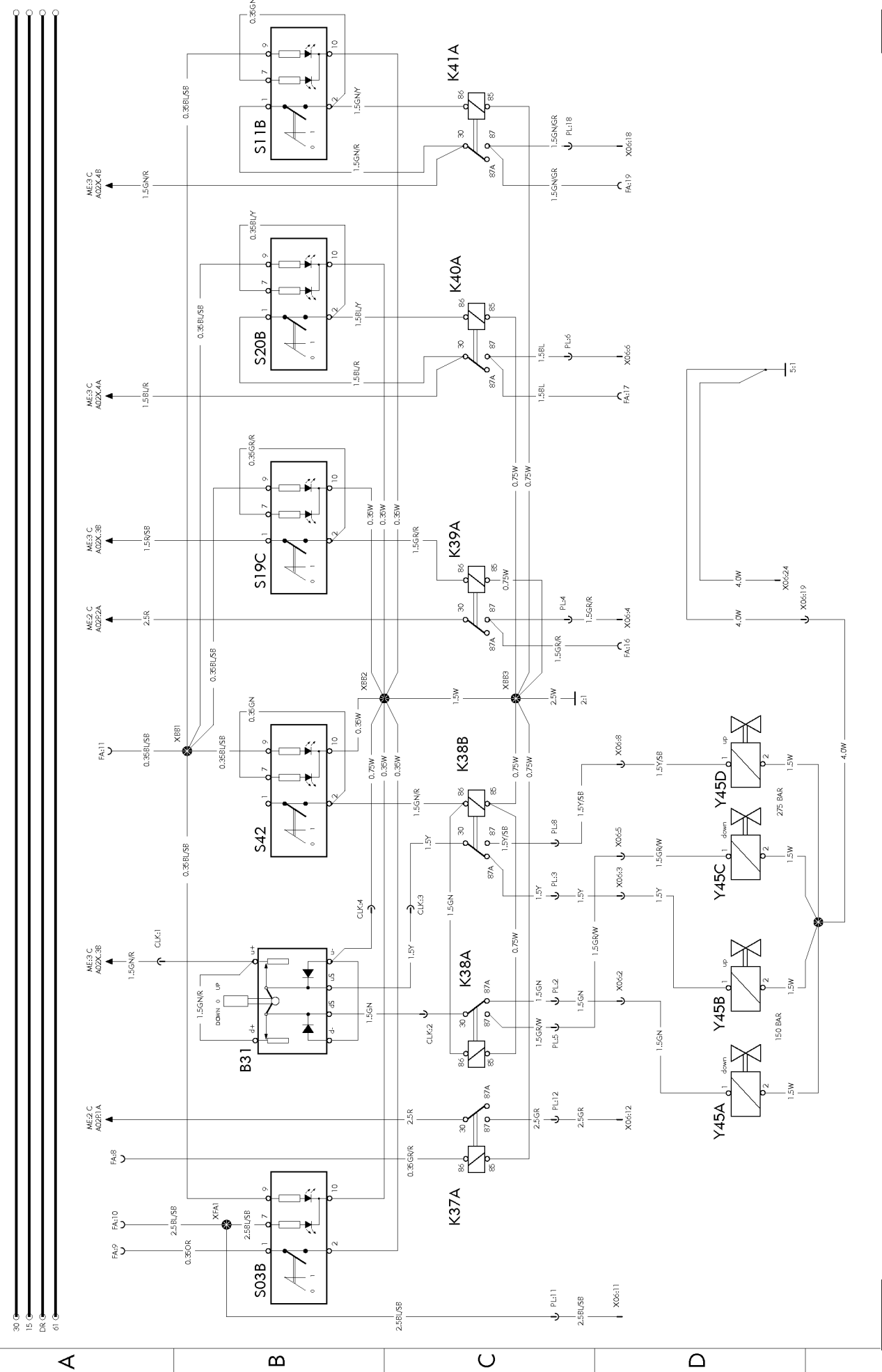
WIRING DIAGRAM NK



BODY BUILDER (BB)

TIPPER TRACTOR "HYDRKIT"

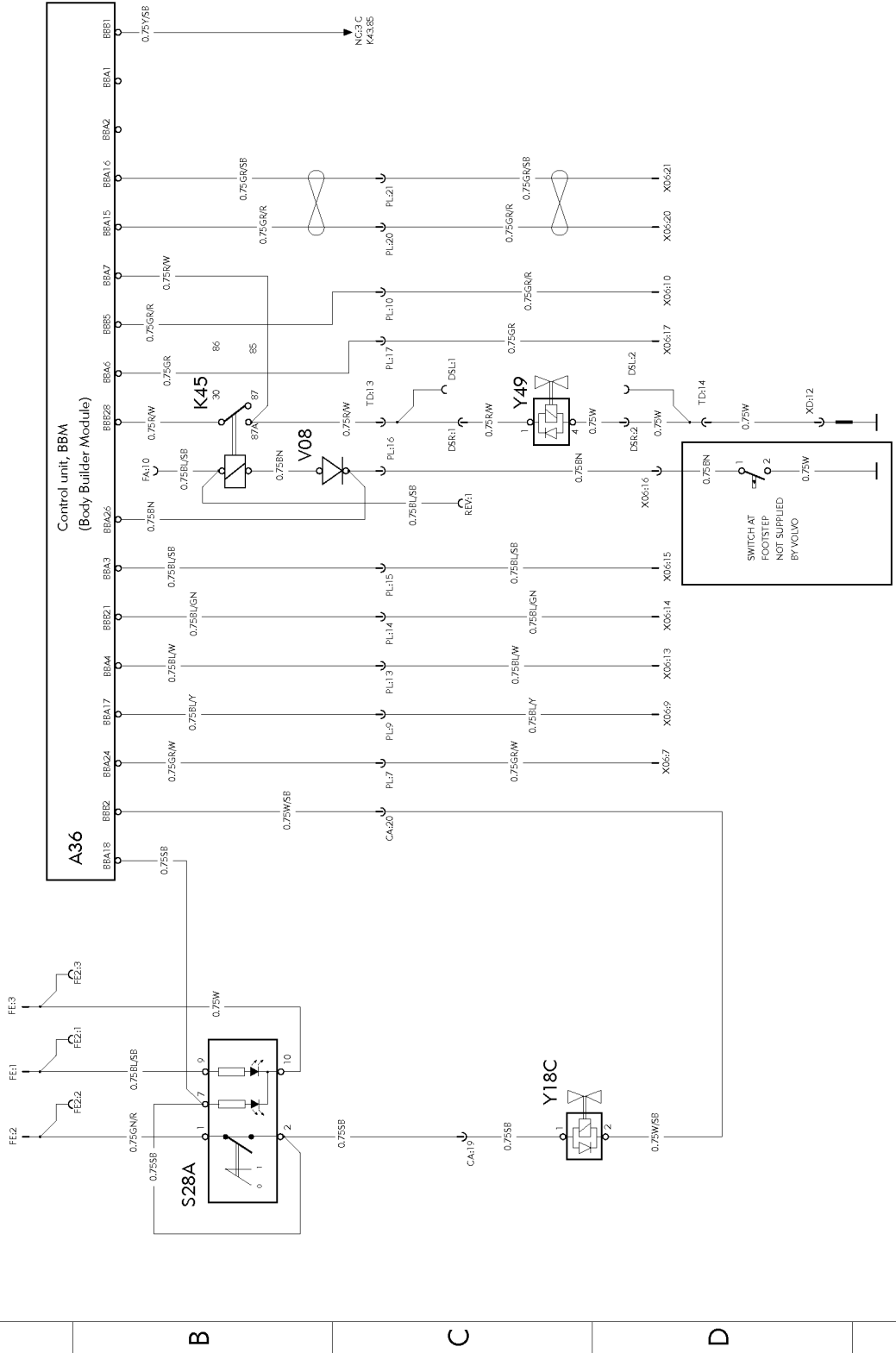
WIRING DIAGRAM NR

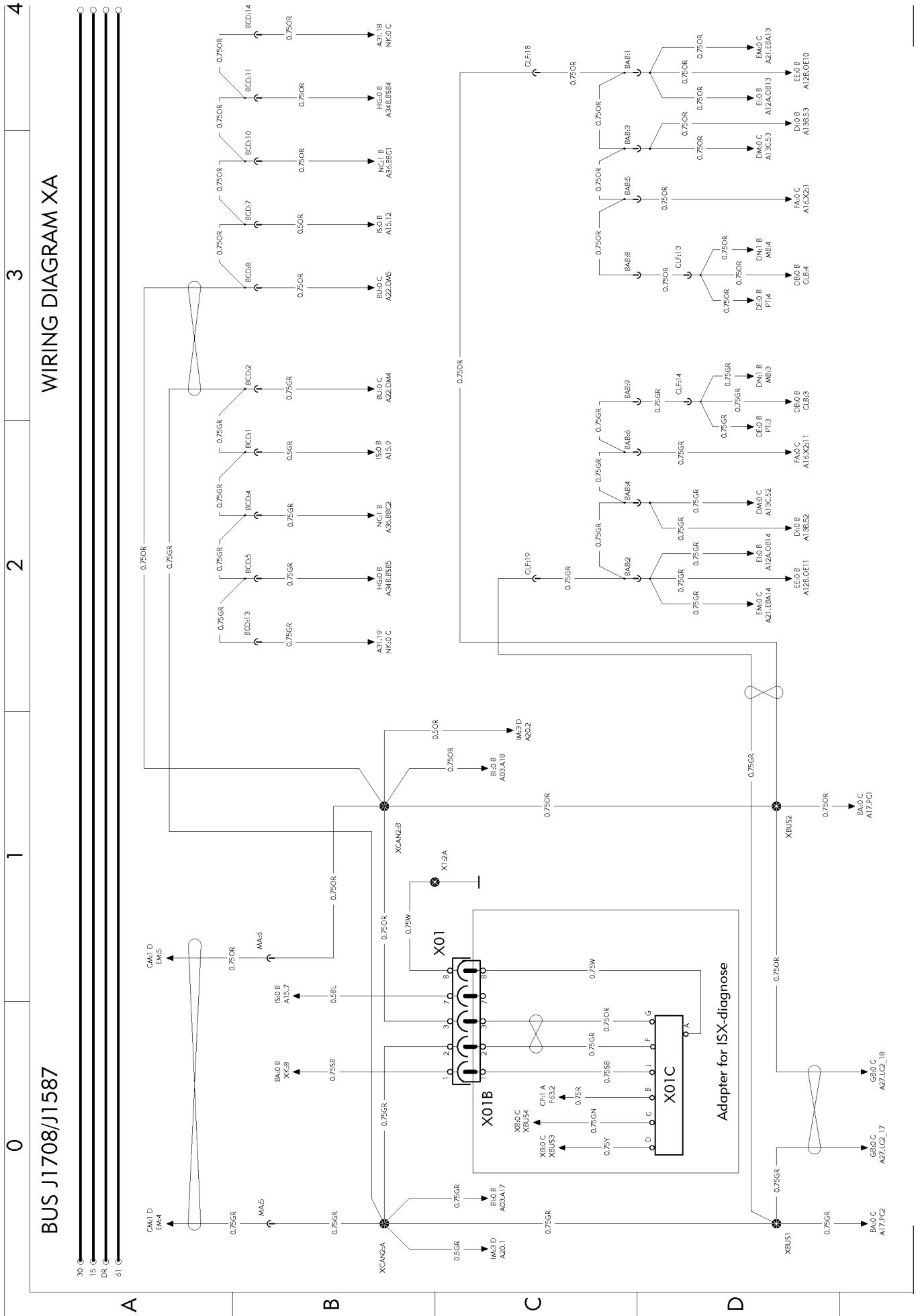


BODY BUILDER (BB)

DUAL SPEED

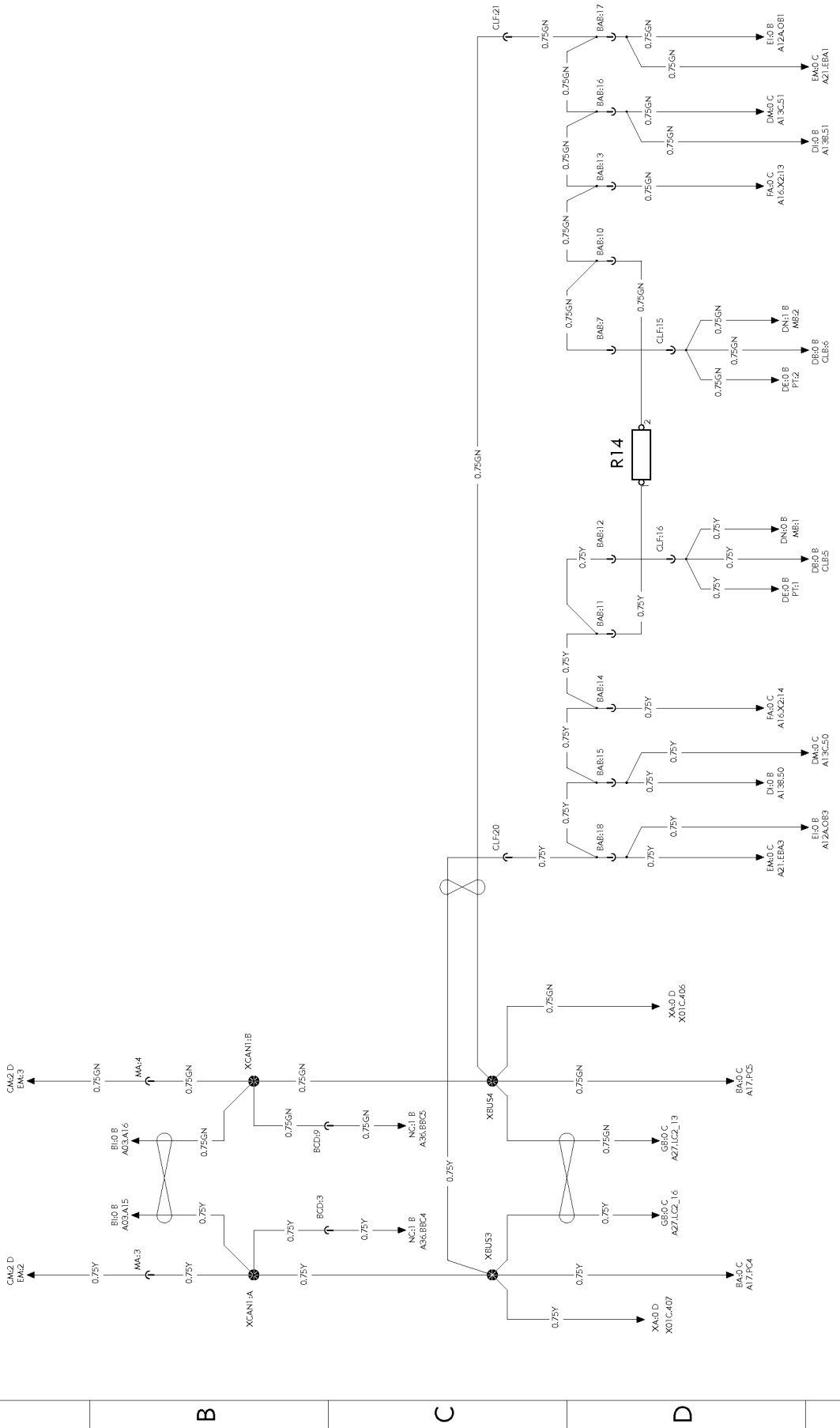
WIRING DIAGRAM NU





WIRING DIAGRAM XB

BUS J1939



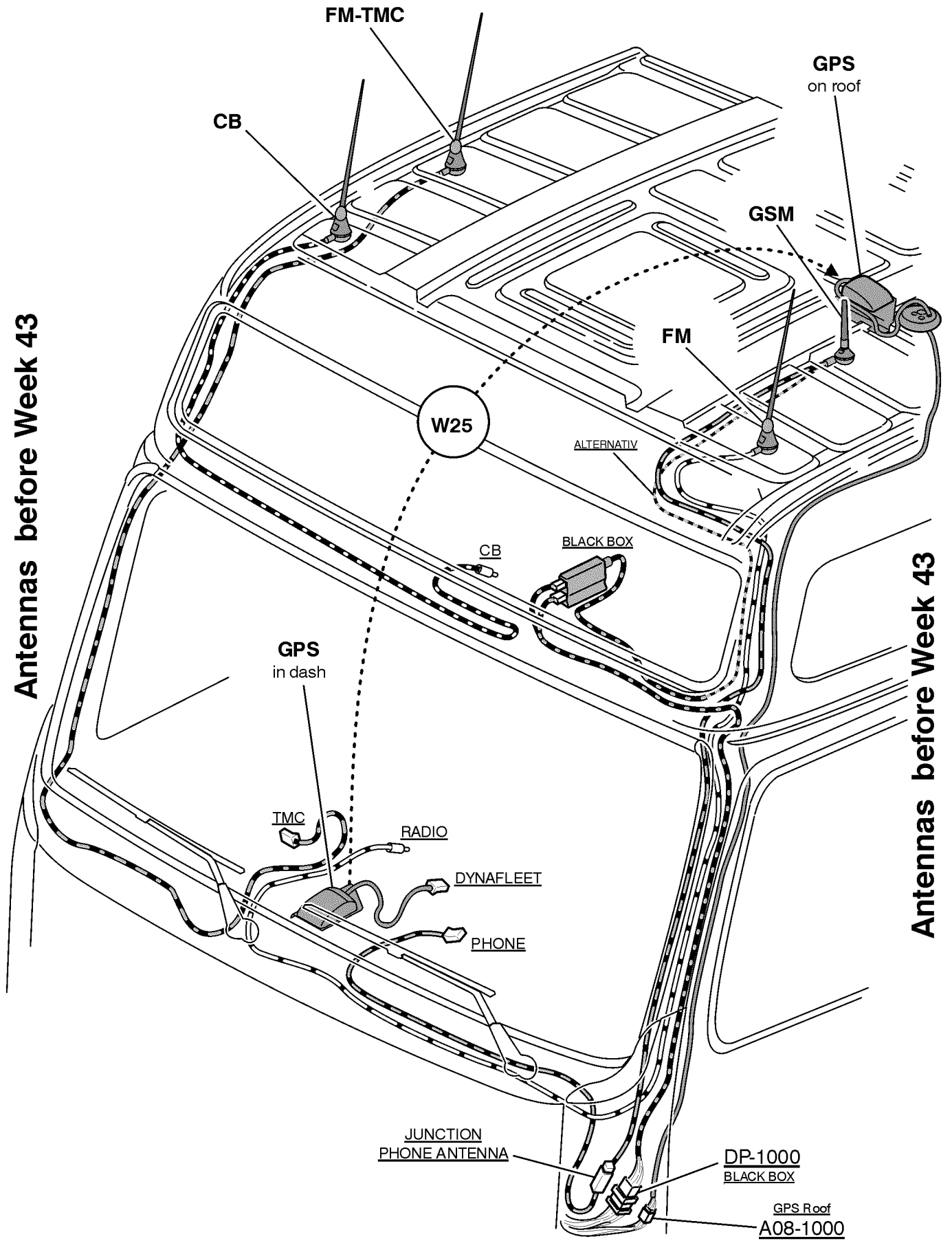
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Illustrations

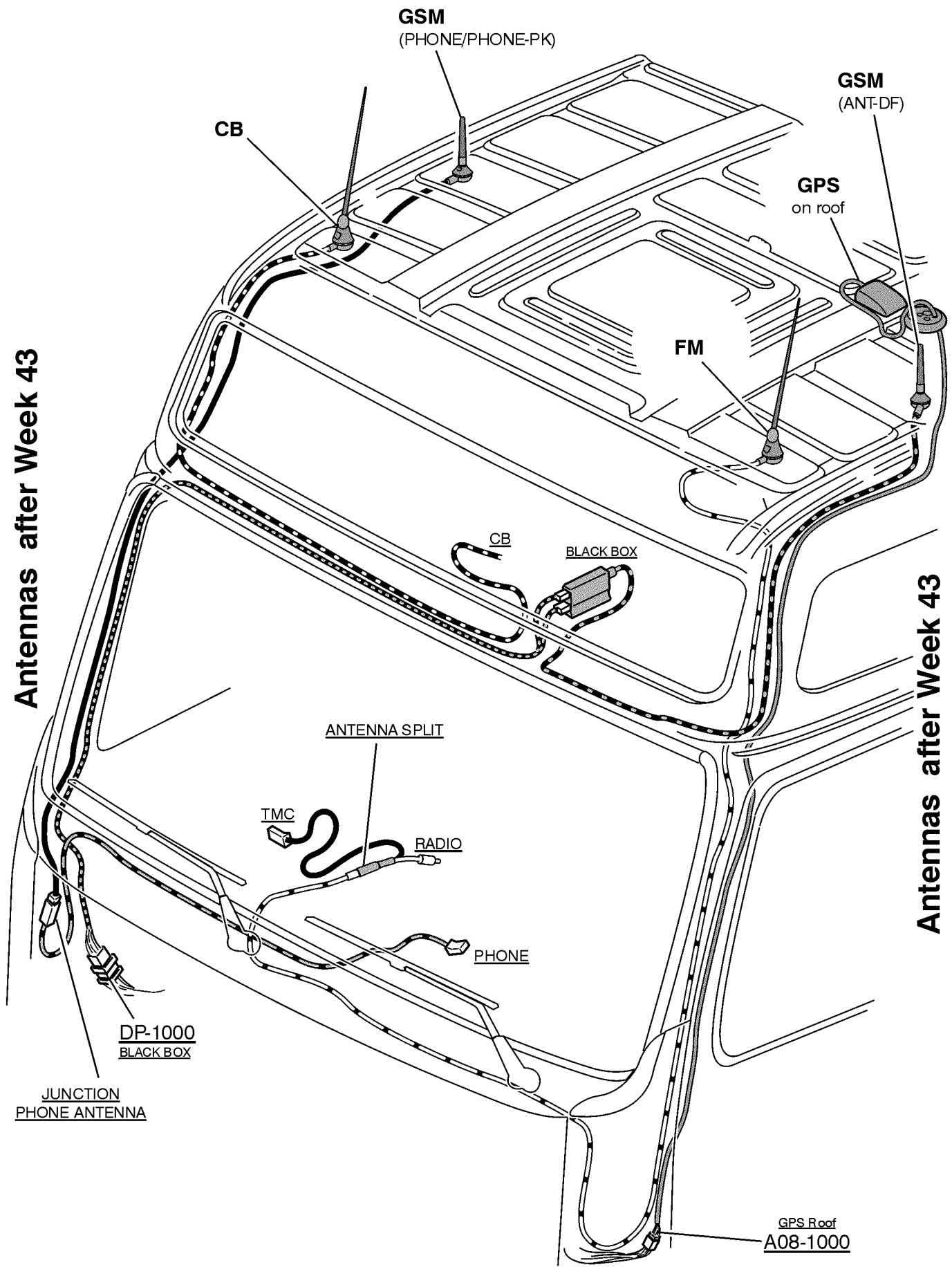
Antennas before Week 43

Antennas before Week 43



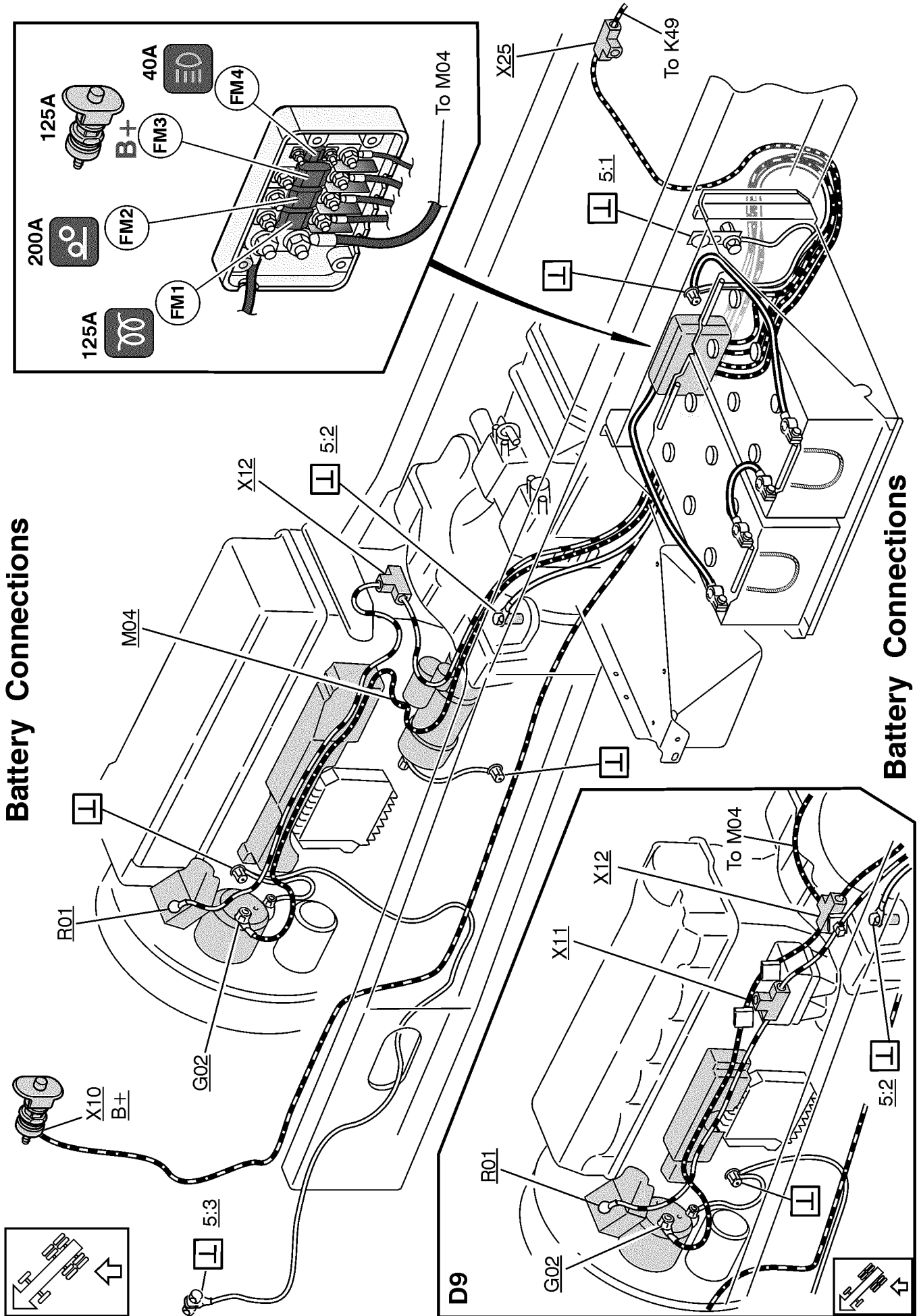
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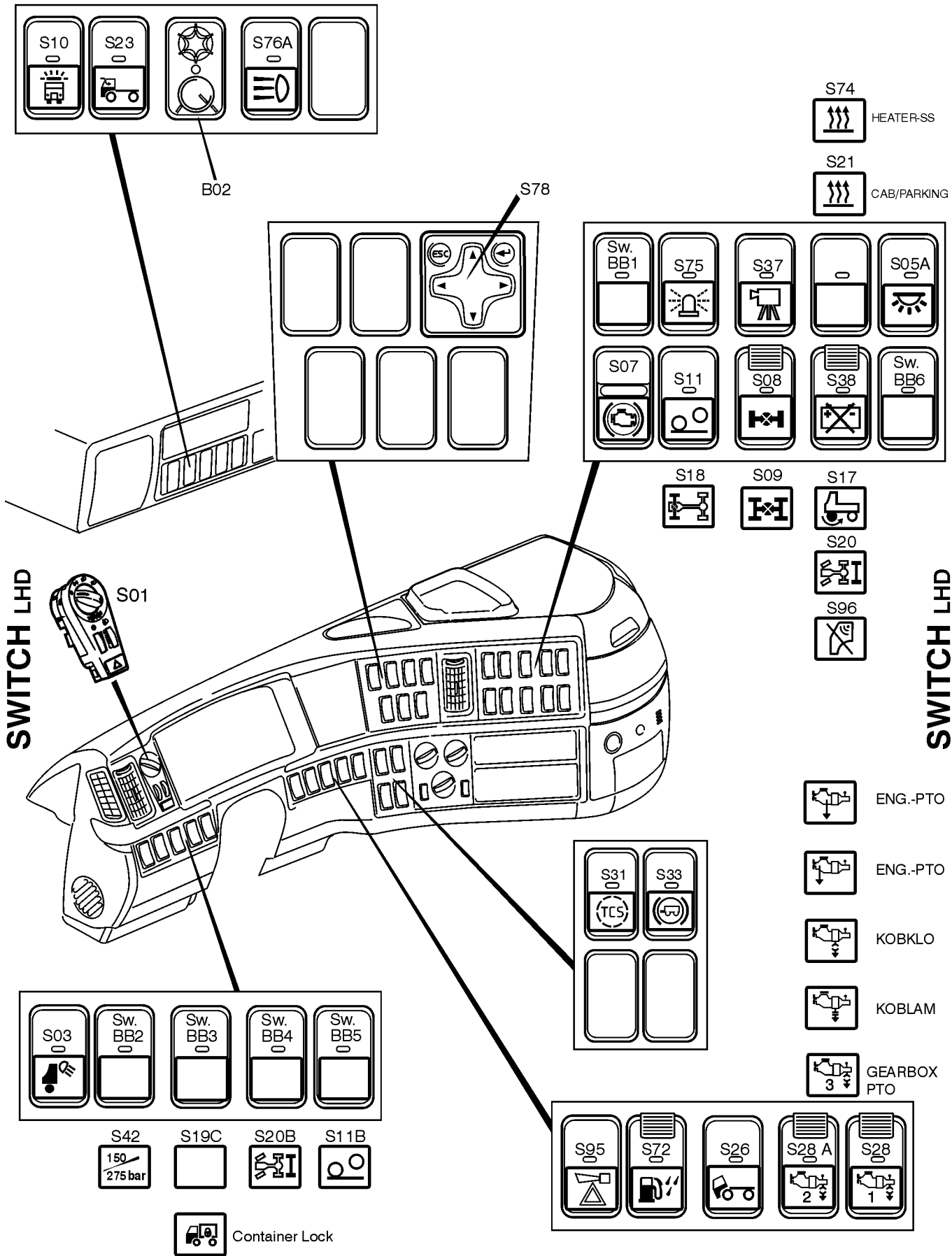
Antennas after Week 43



Antennas after Week 43

Battery Connections

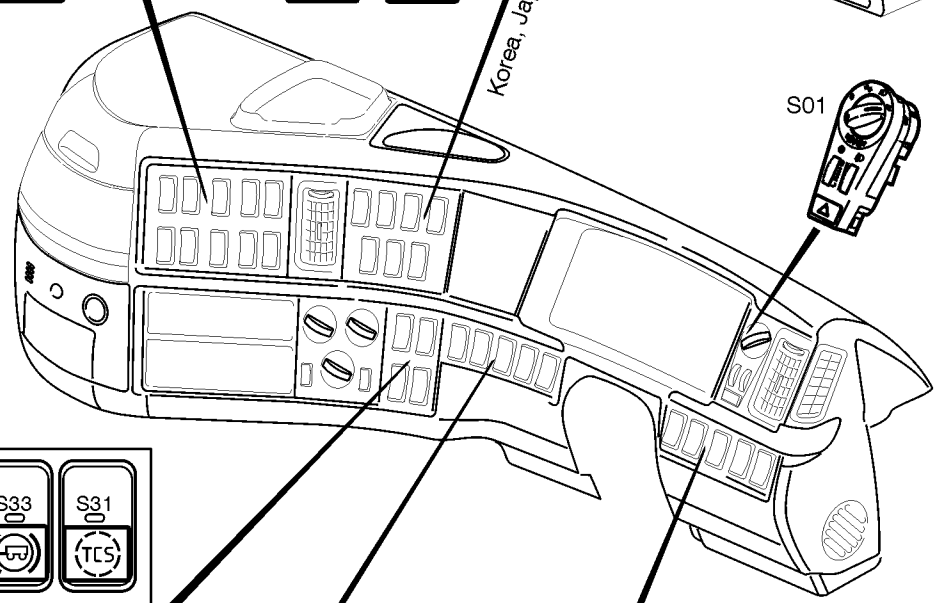
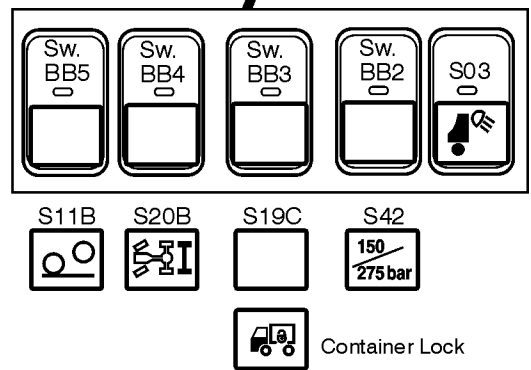
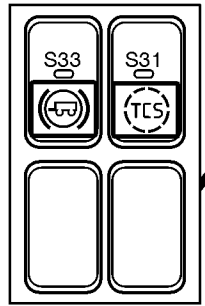
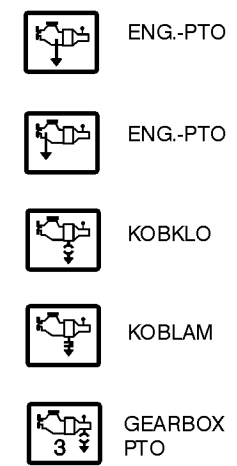
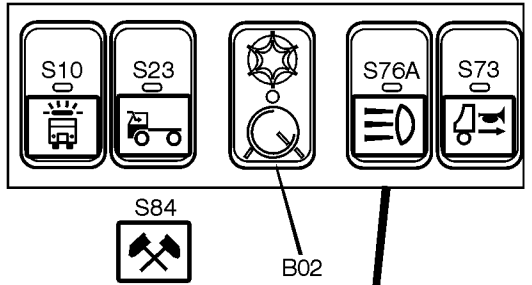
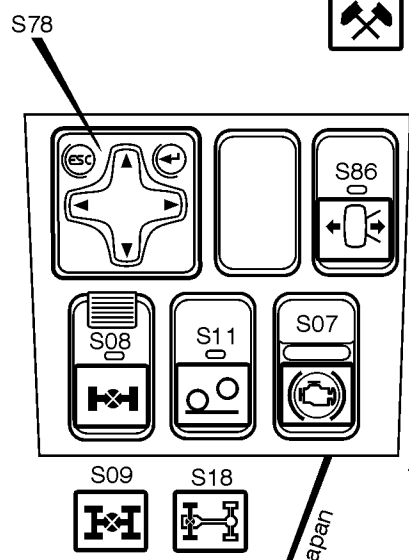
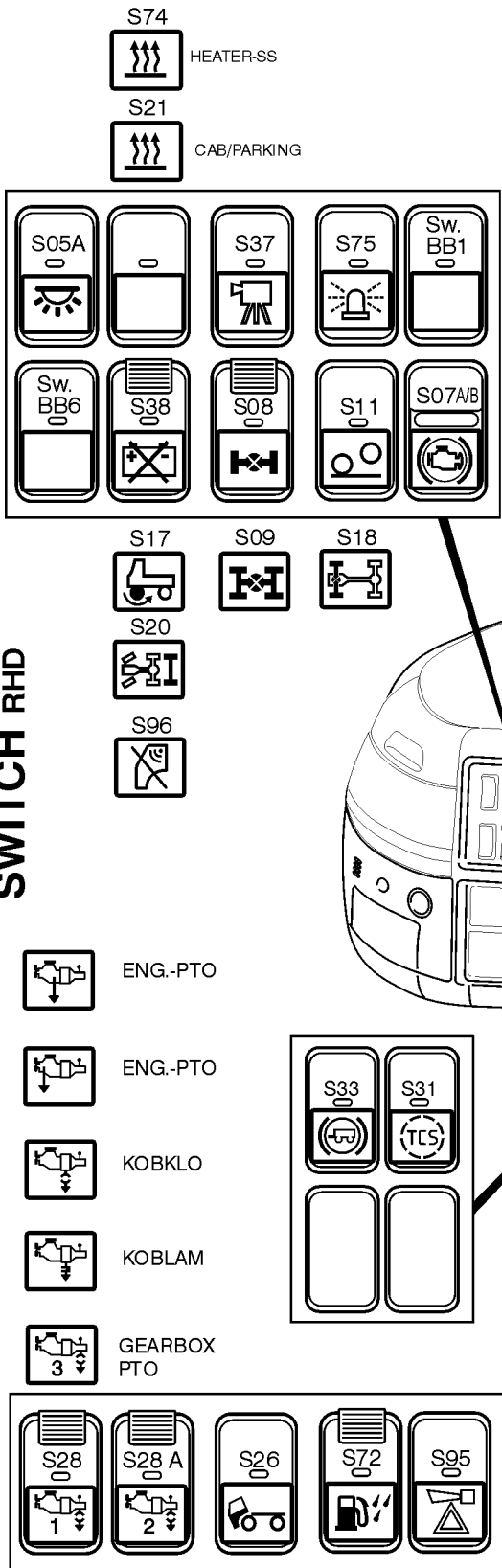


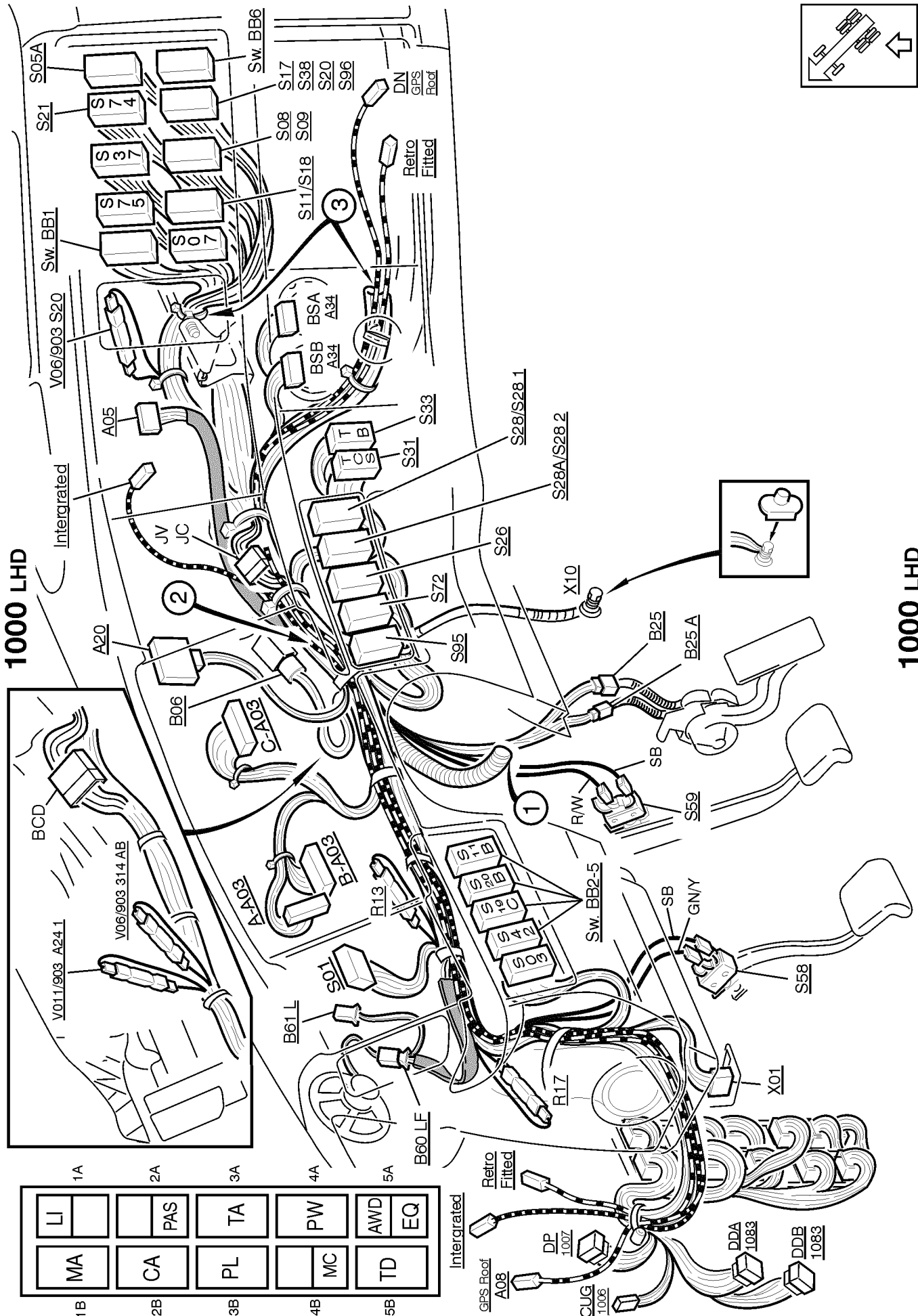


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SWITCH RHD

SWITCH RHD



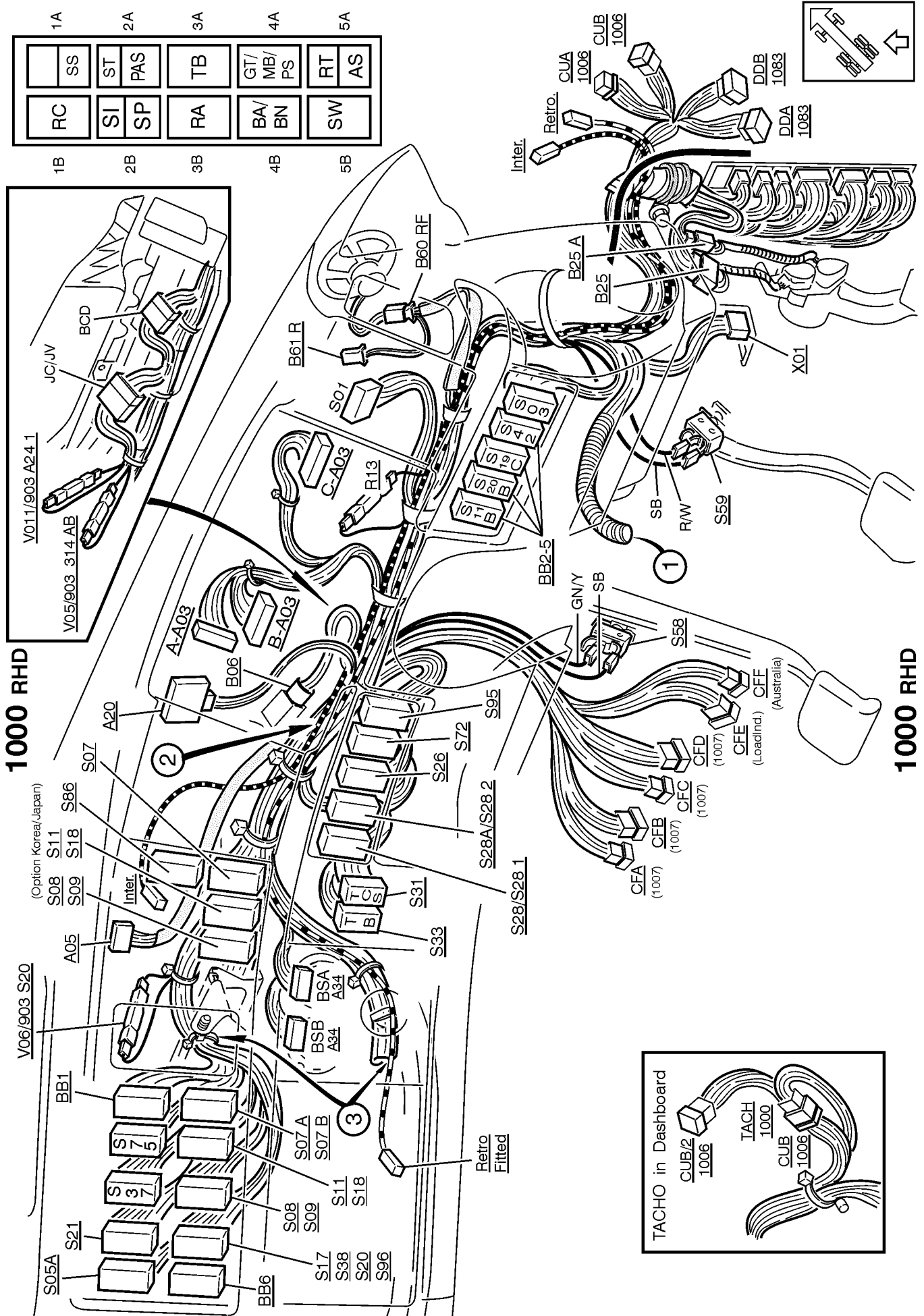


1000 LHD

1000 LHD

1A	2A	3A	4A	5A
LI	PAS	TA	PW	AWD
MA	CA	PL	MC	TD
1B	2B	3B	4B	5B
				EQ

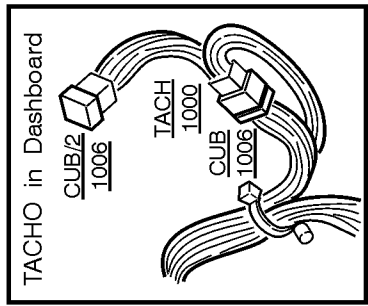
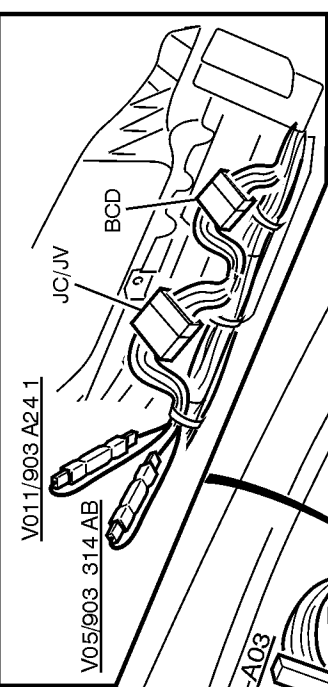
1000 RHD

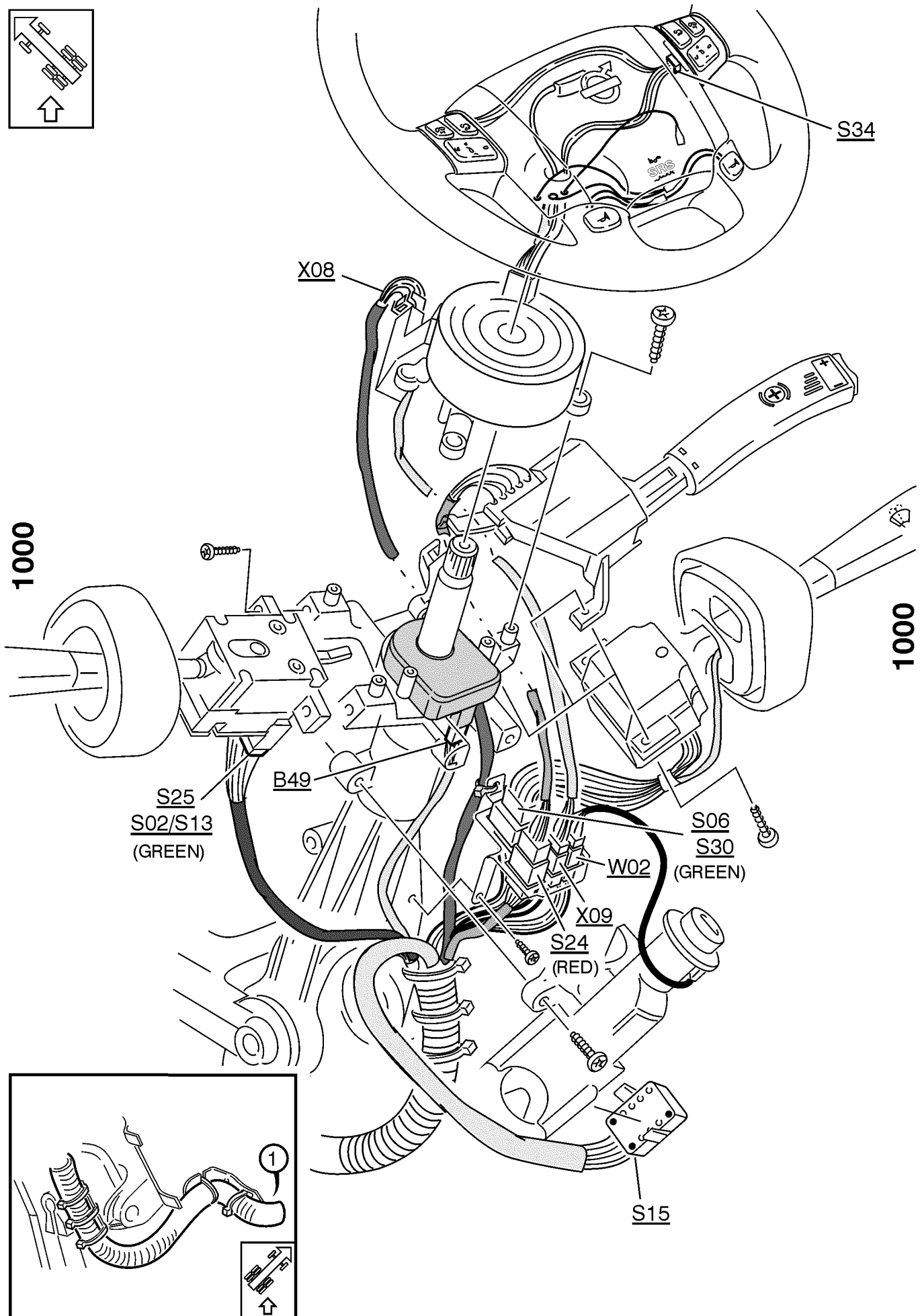
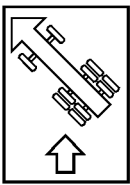


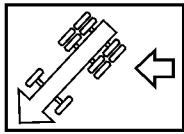
V011/903 A24 1
V05/903 314 AB

V06/903 S20

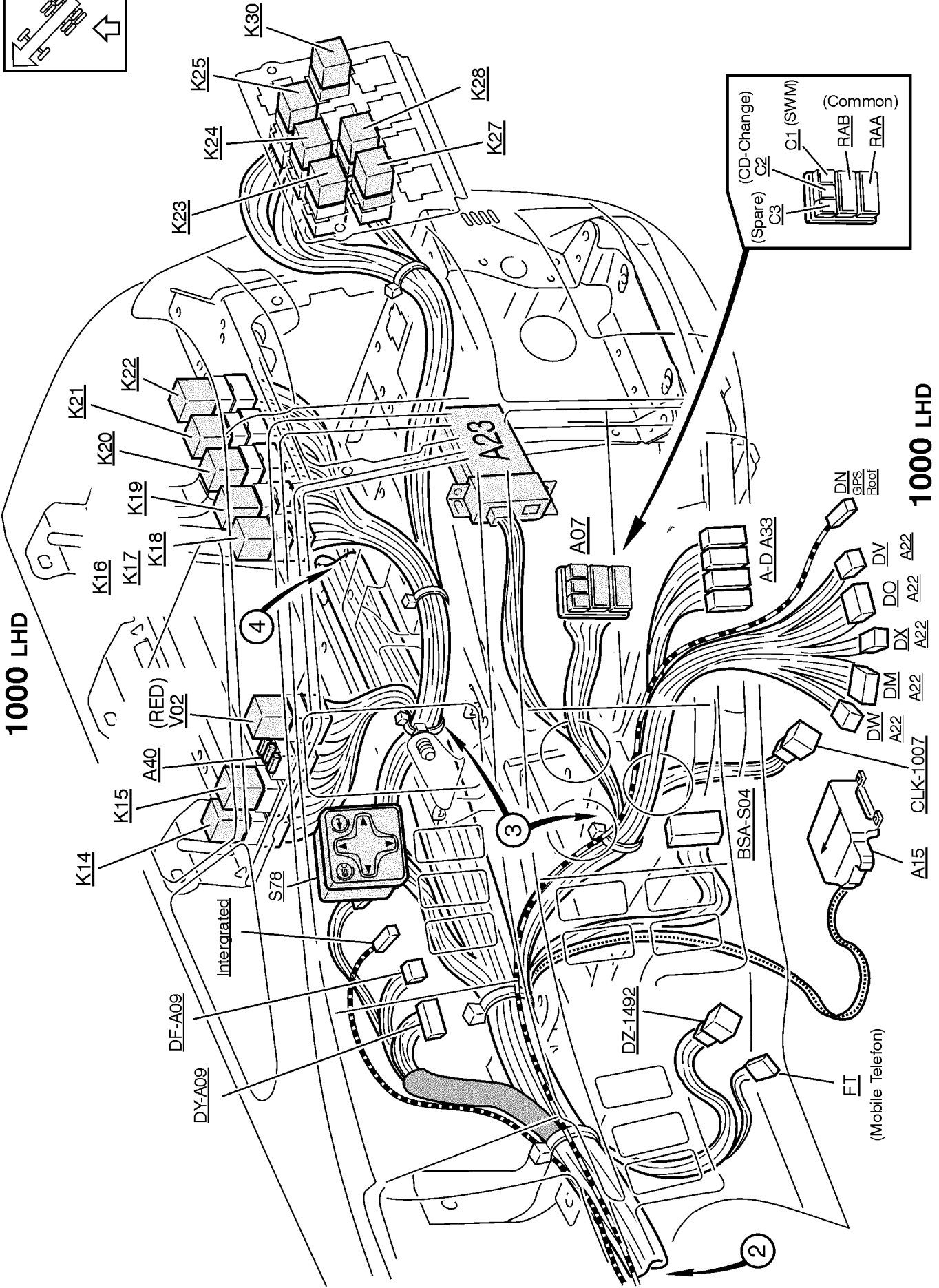
(Option Korea/Japan)
S08 S11 S18 S86



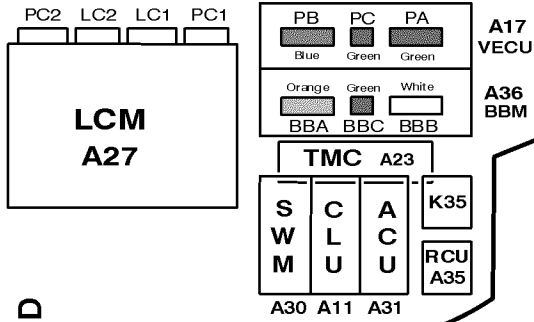
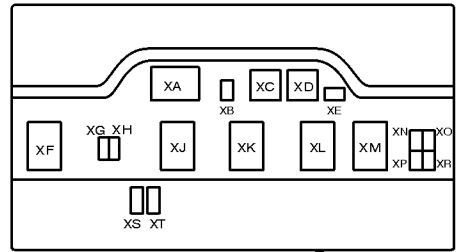
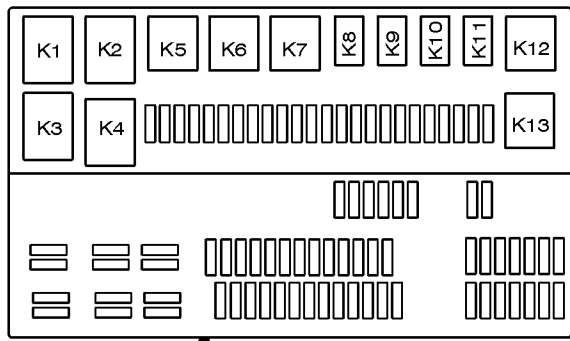
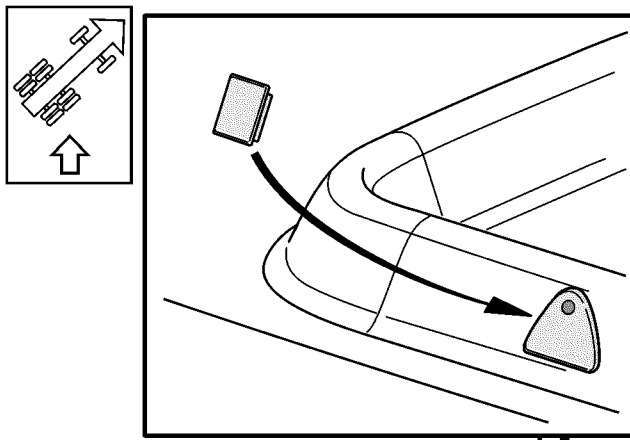




1000 LHD

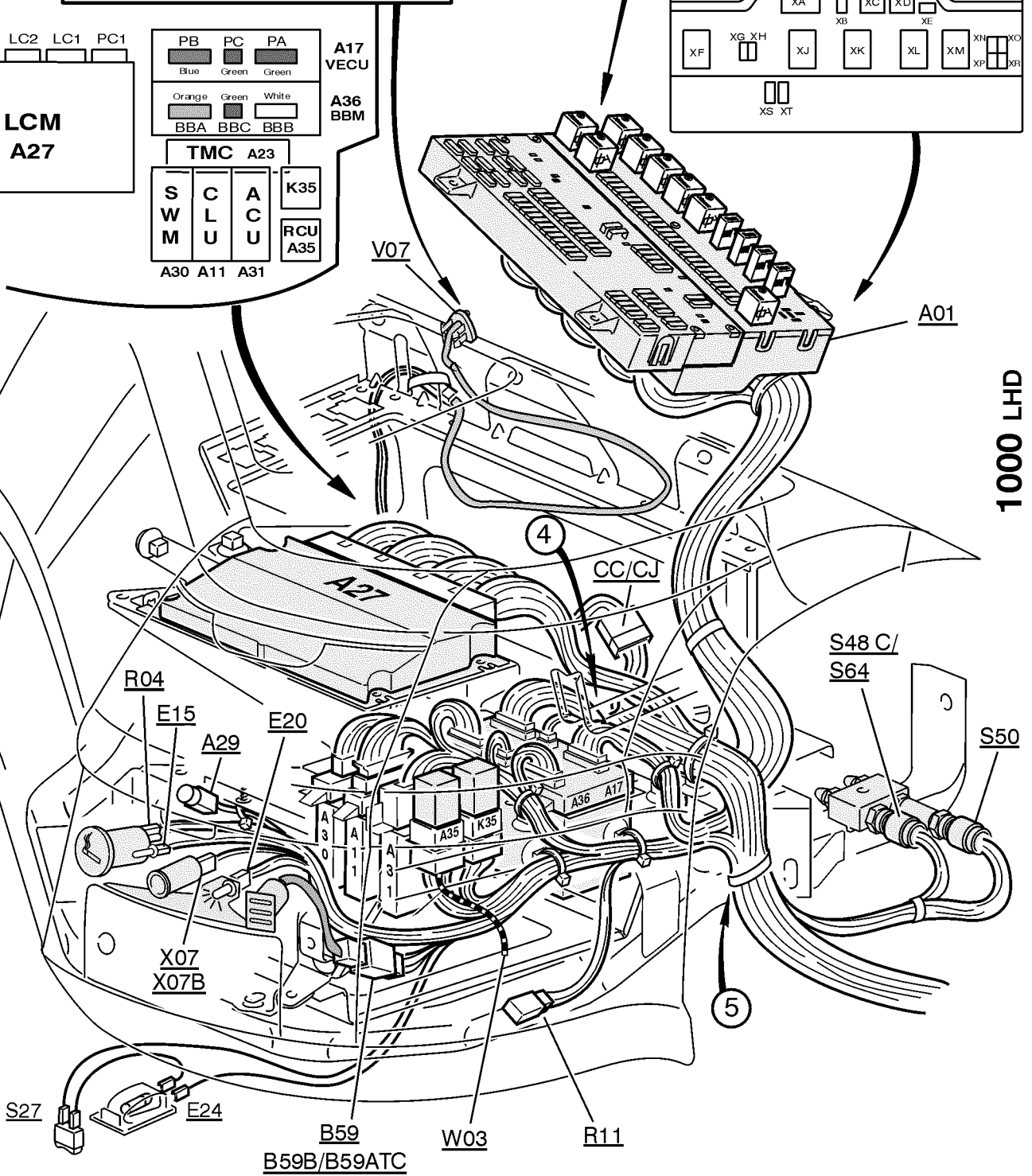


1000 LHD

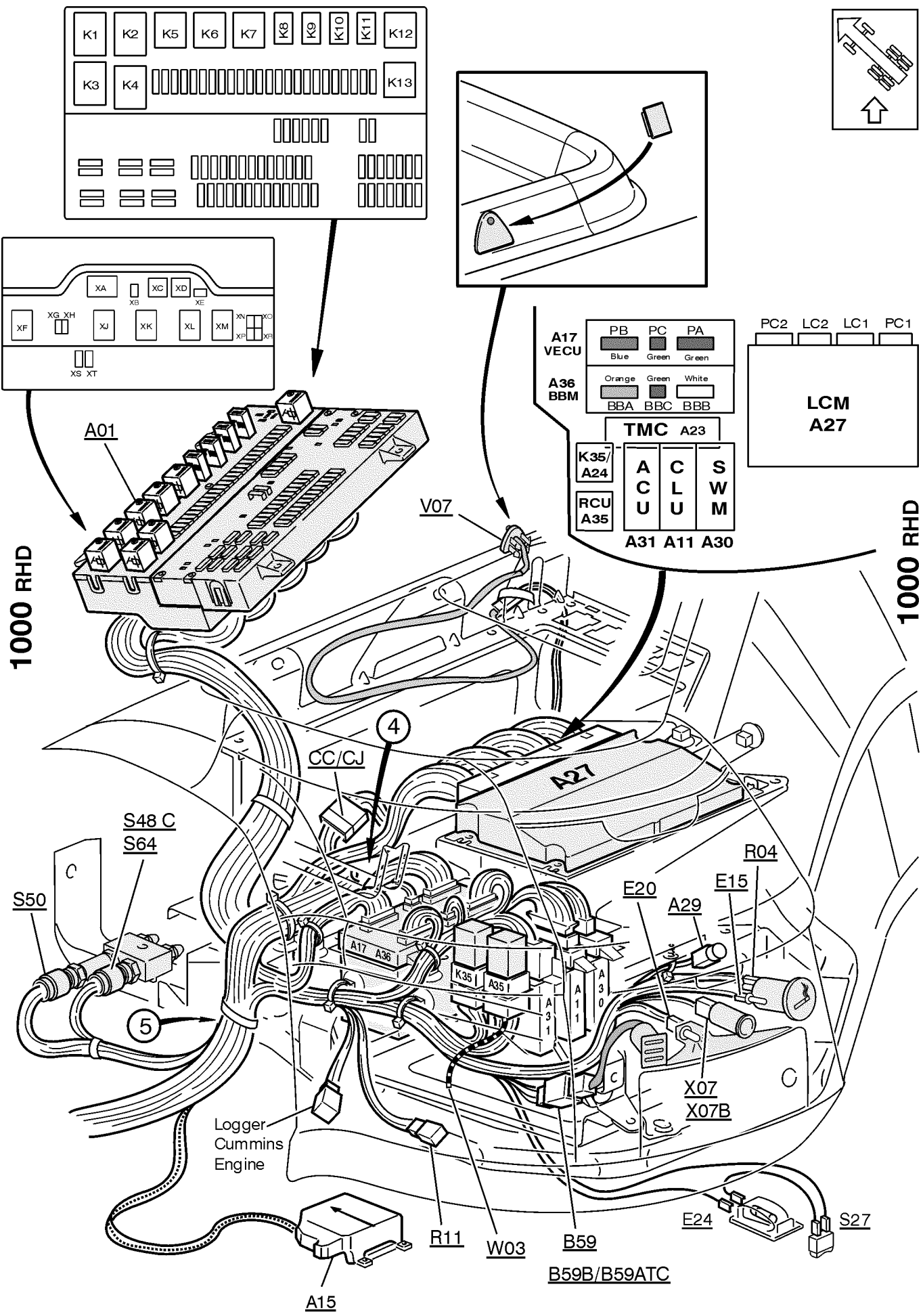


1000 LHD

1000 LHD

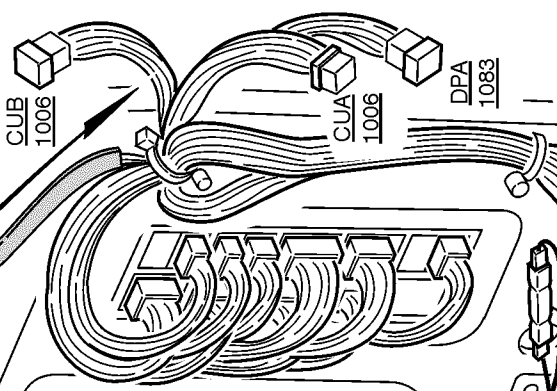
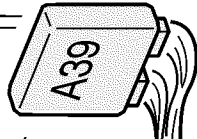
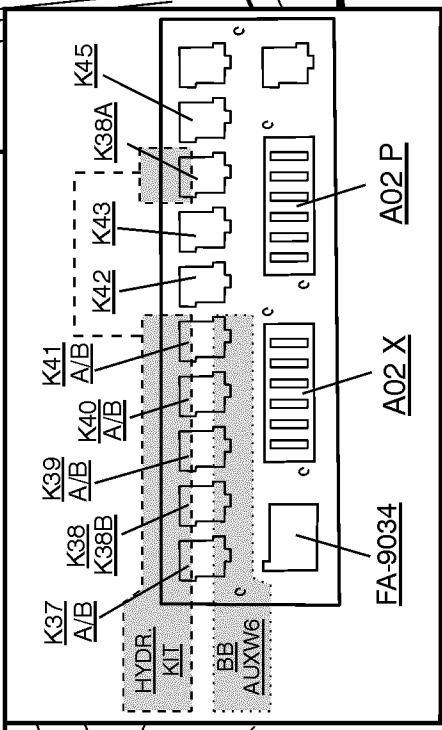
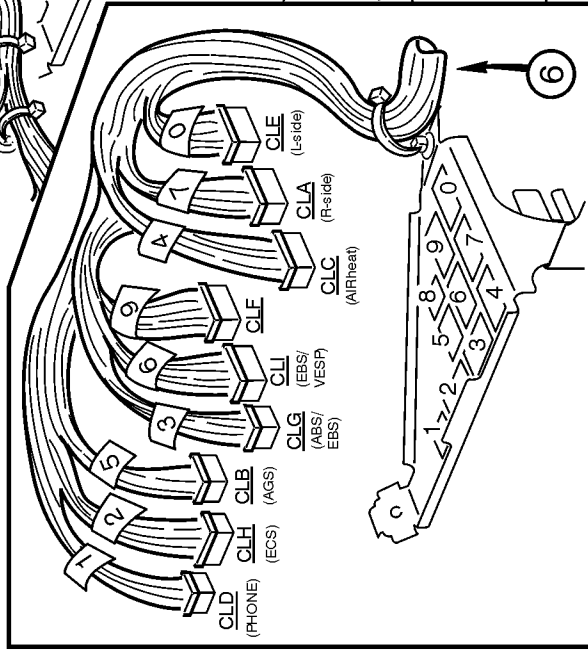
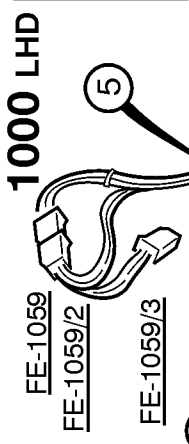
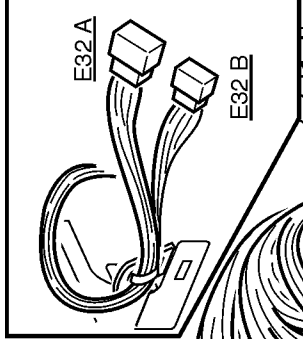
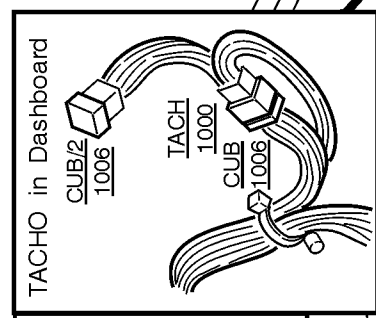


B59/B59ATC



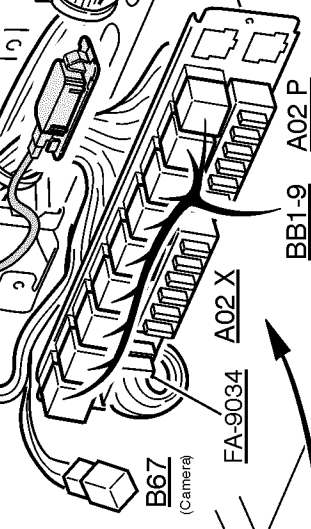
1A	2A	3A	4A	5A
RC	SI	RA	BA	
CB	ST	TB	GT/MB	AS
PH	SP			

1B	2B	3B	4B	5B

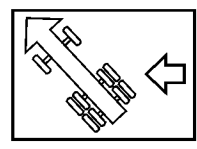


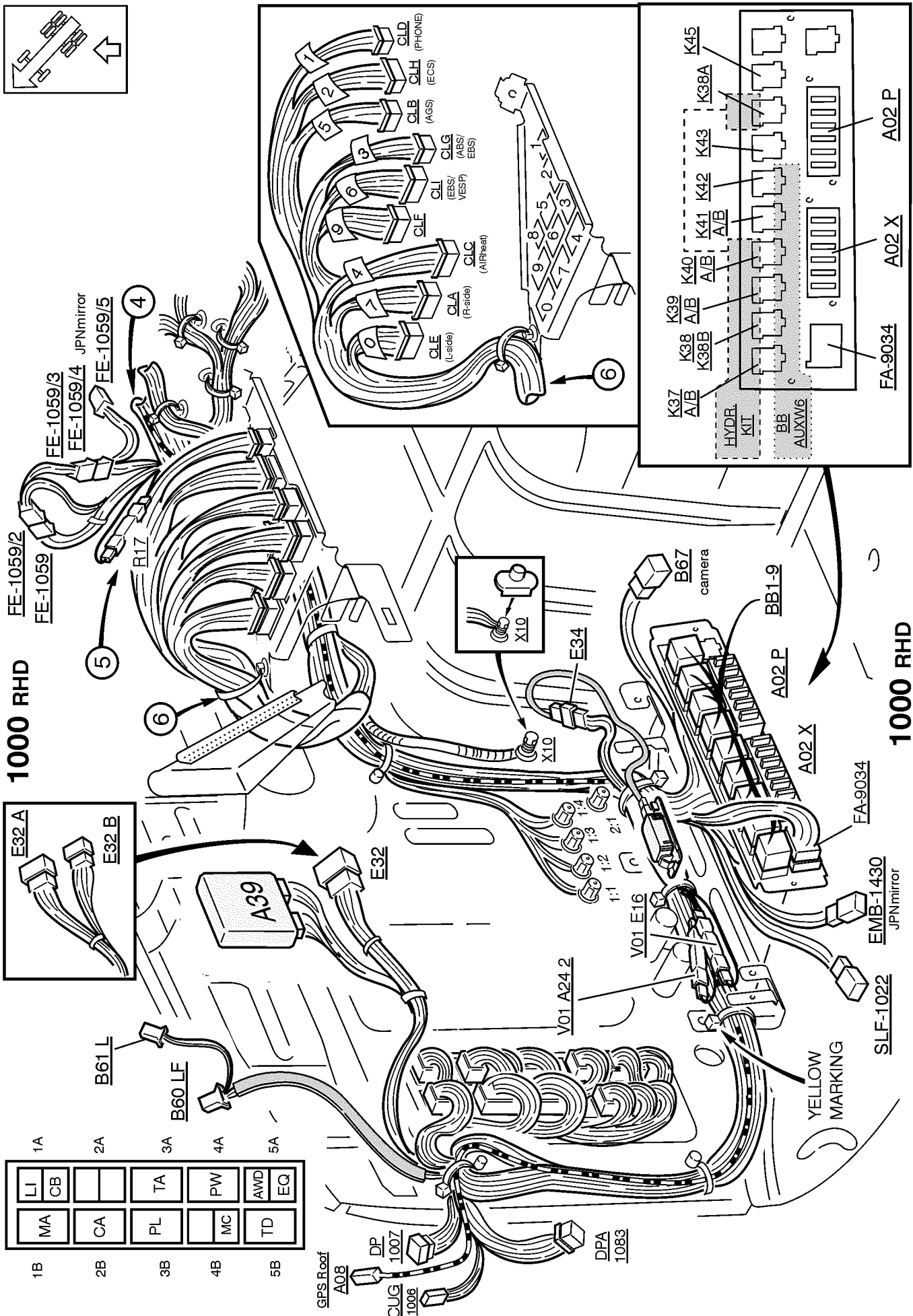
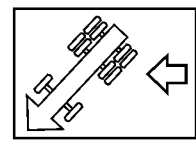
YELLOW MARKING

SLF-1022



1000 LHD



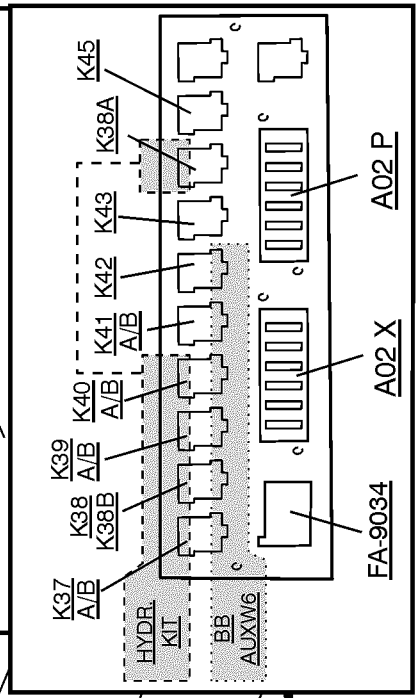


1A	LI	CB		TA	PW	AWD	EQ
2A	MA	CA	PL	MC	TD		
3A							
4A							
5A							
1B							
2B							
3B							
4B							
5B							

1000 RHD

1000 RHD

FE-1059/2
FE-1059
FE-1059/3
FE-1059/4 JPNmirror
FE-1059/5

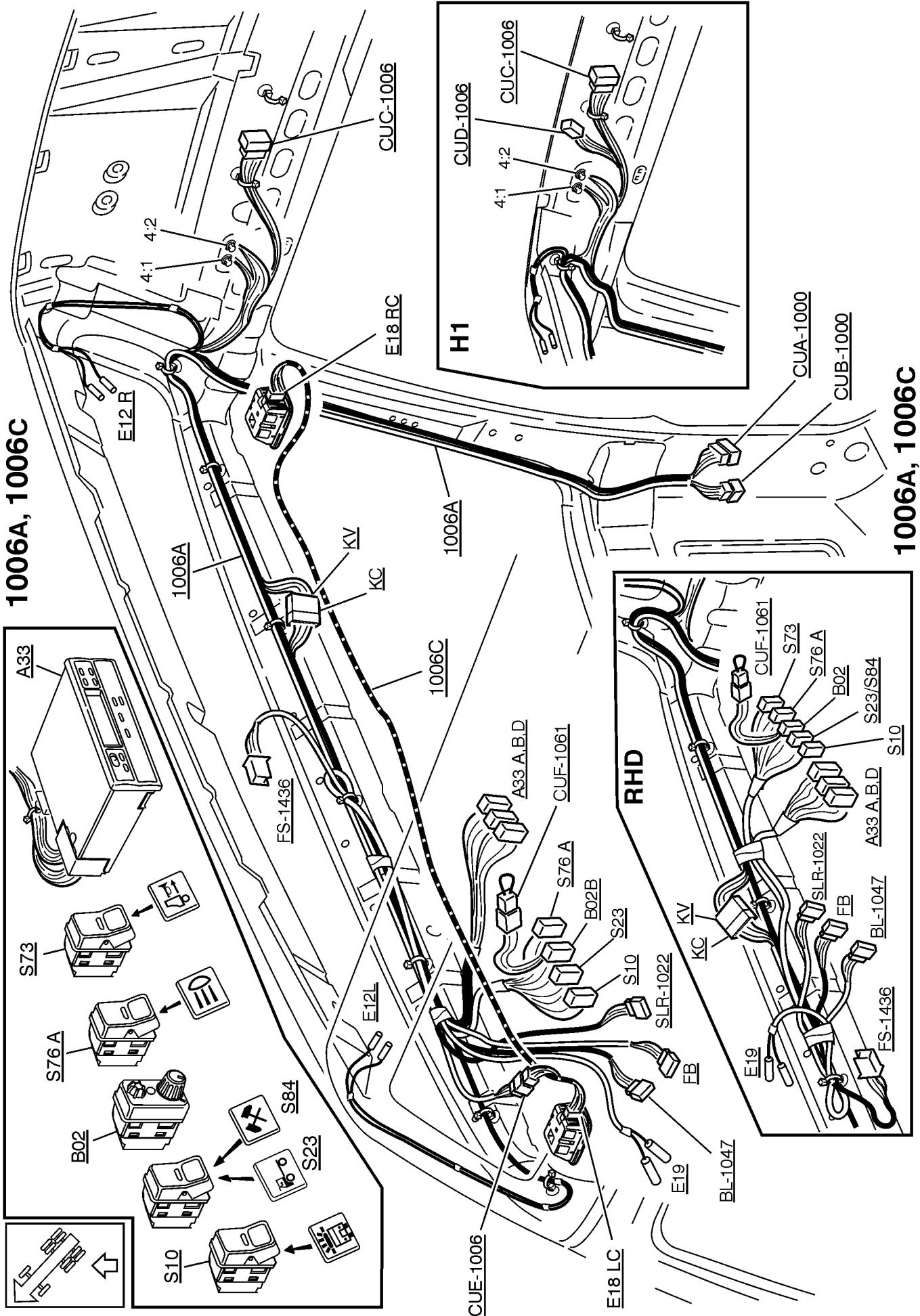


GPS Roof
A08

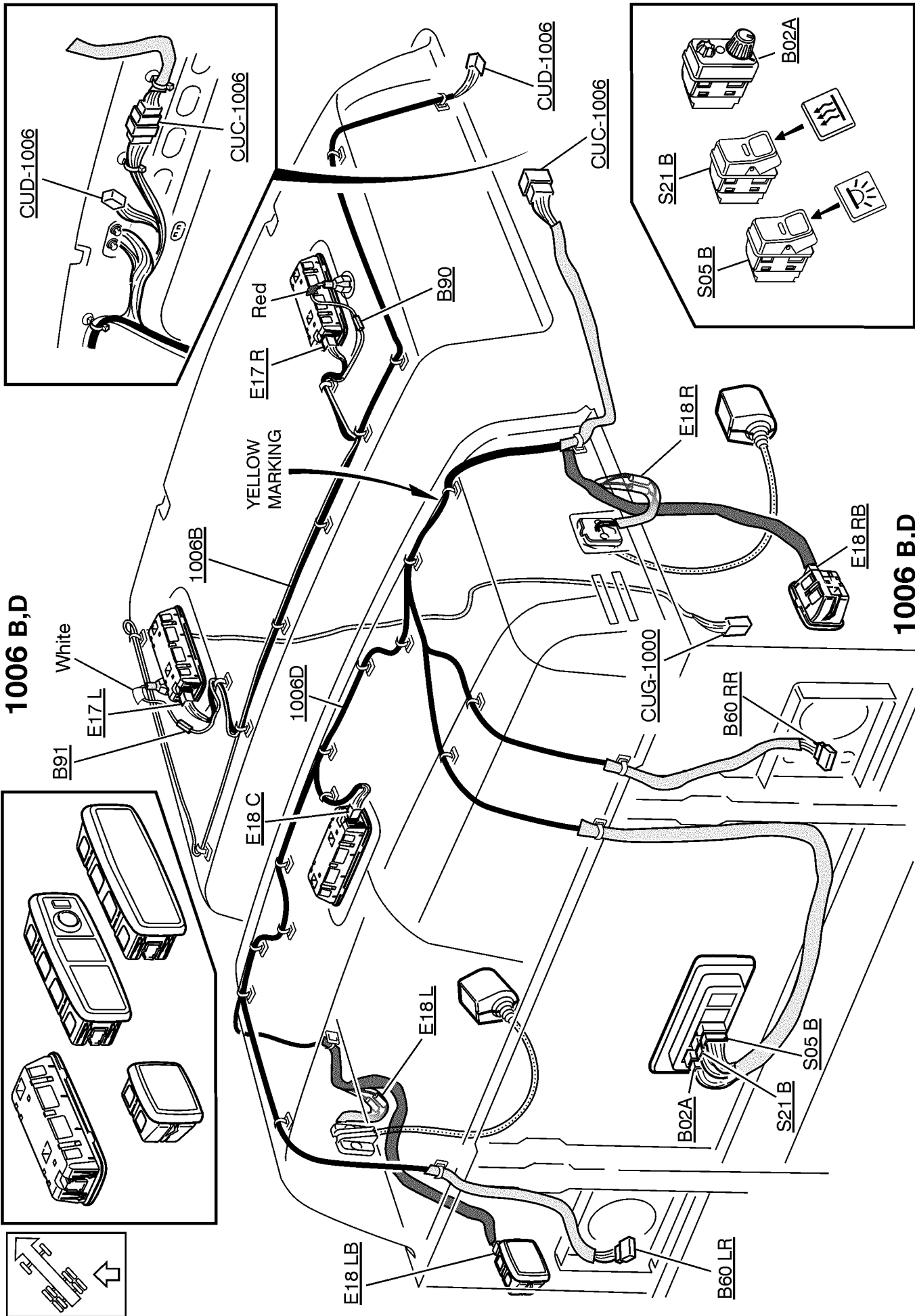
CUG
1006

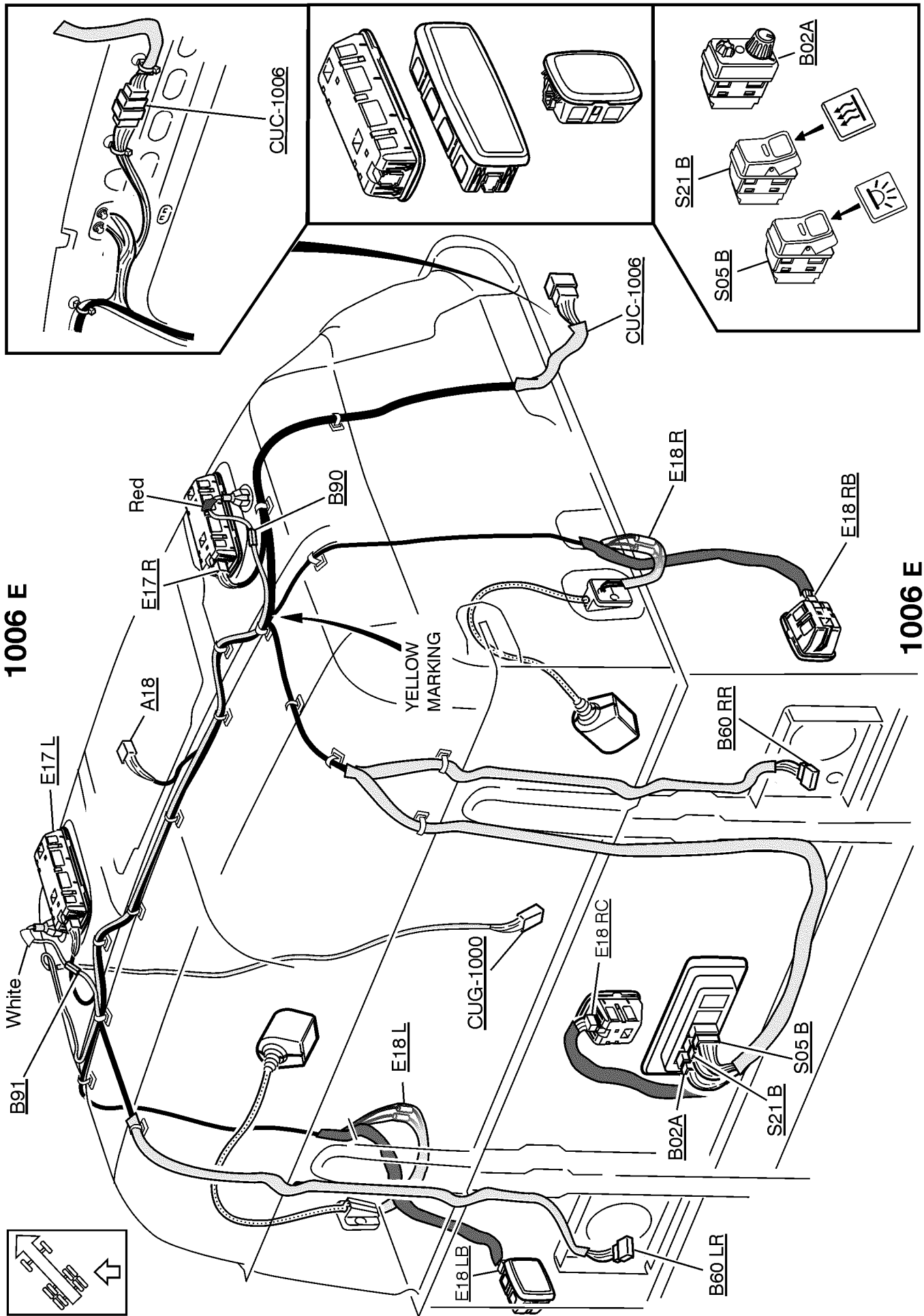
DP
1007
DPA
1083

1006A, 1006C



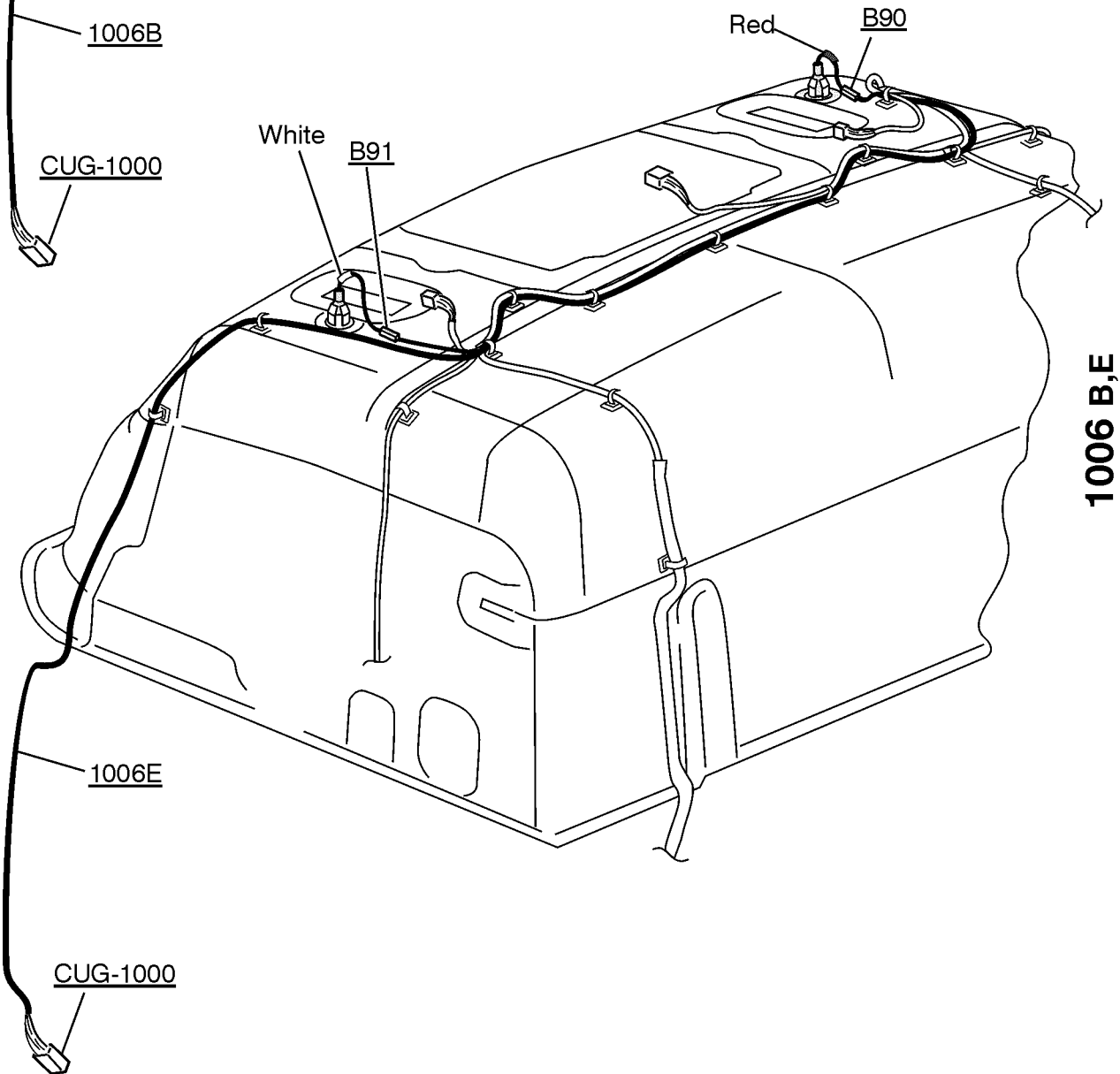
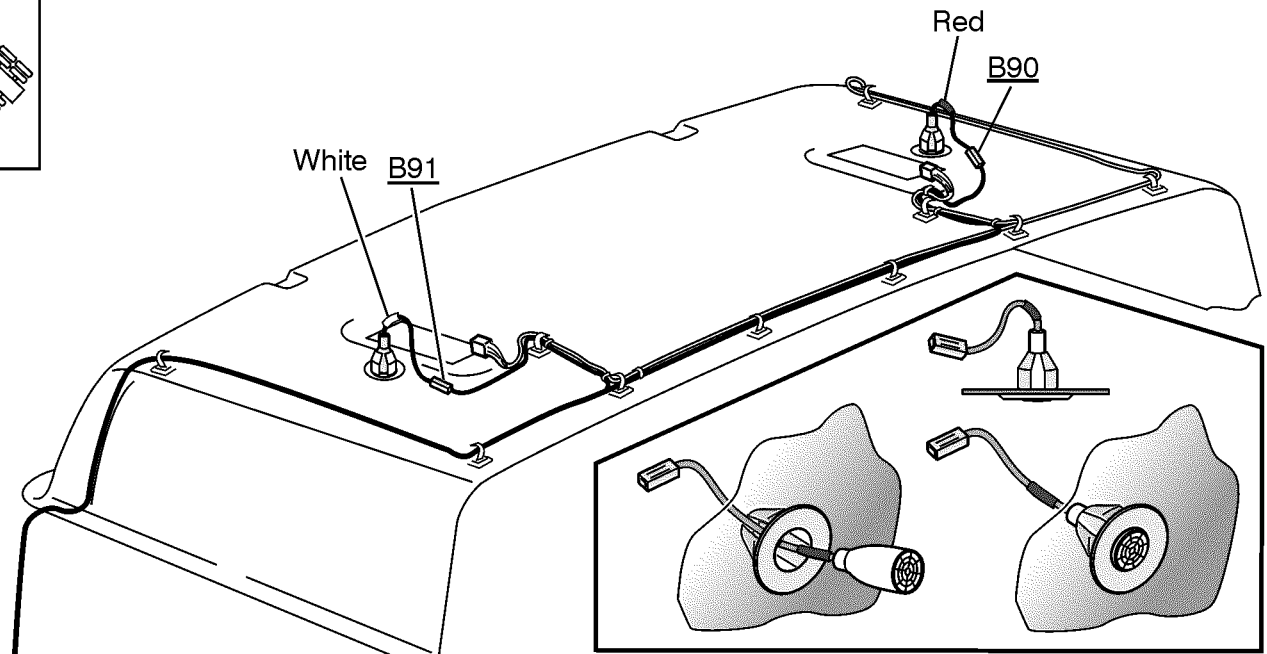
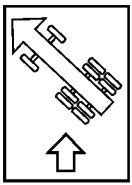
1006A, 1006C

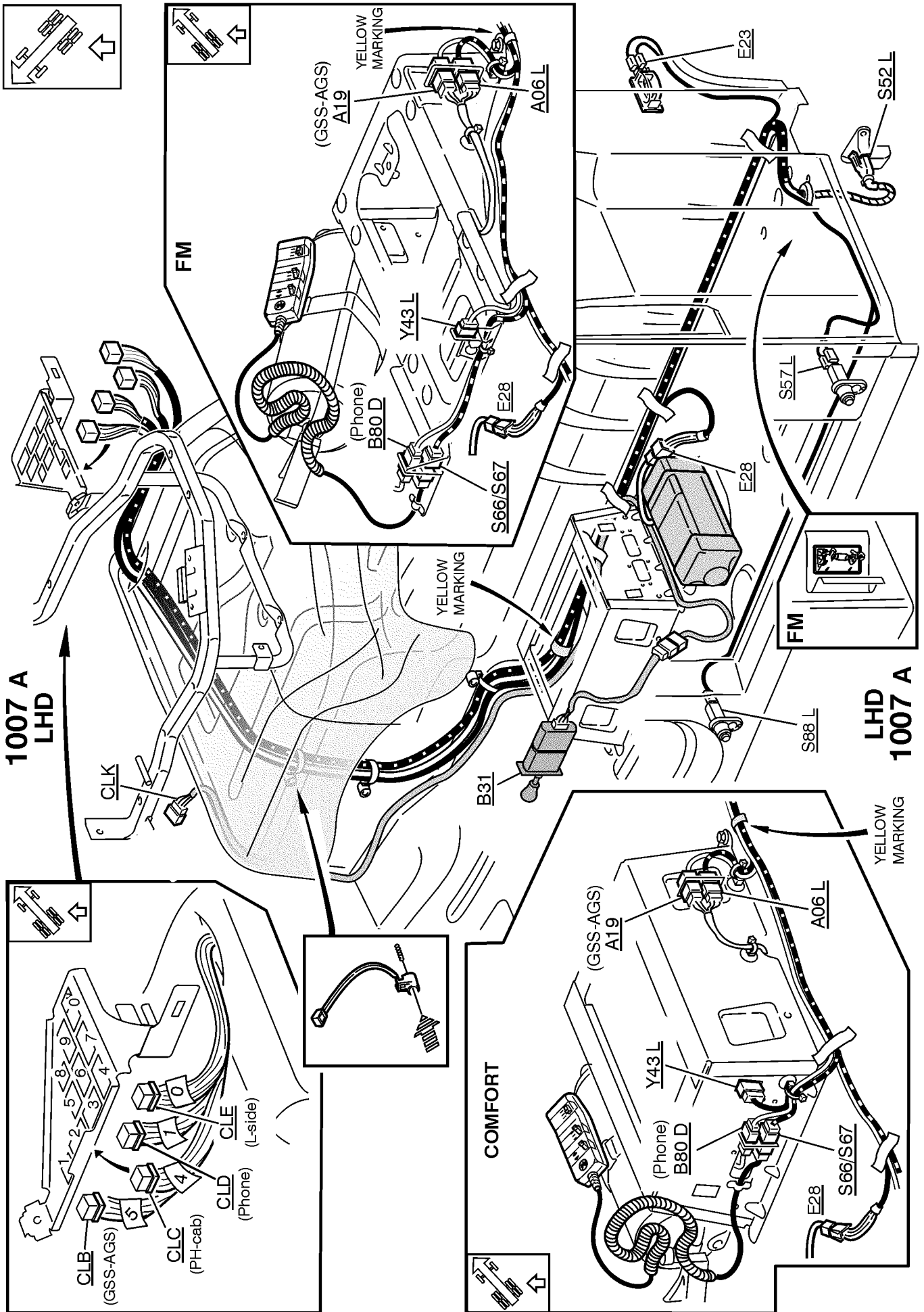


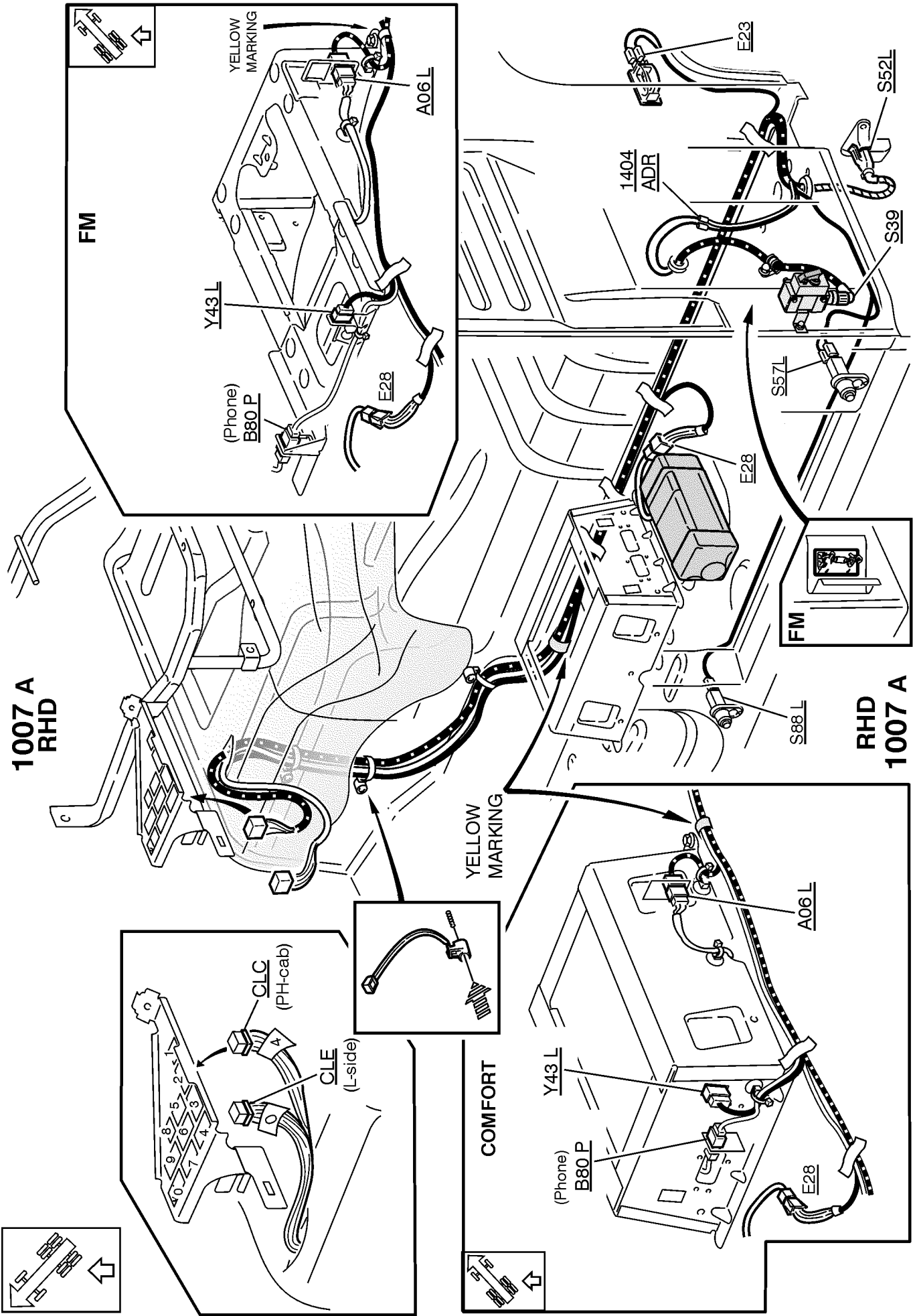


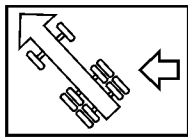
1006 E

1006 E

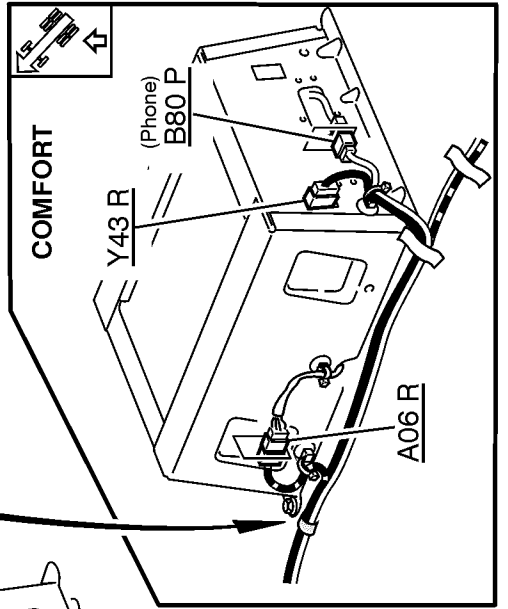
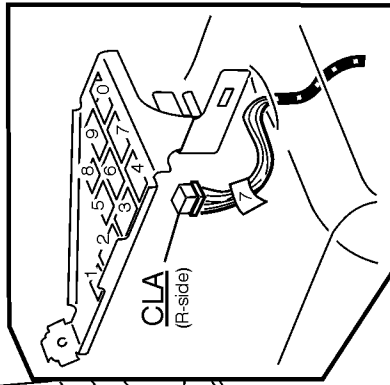
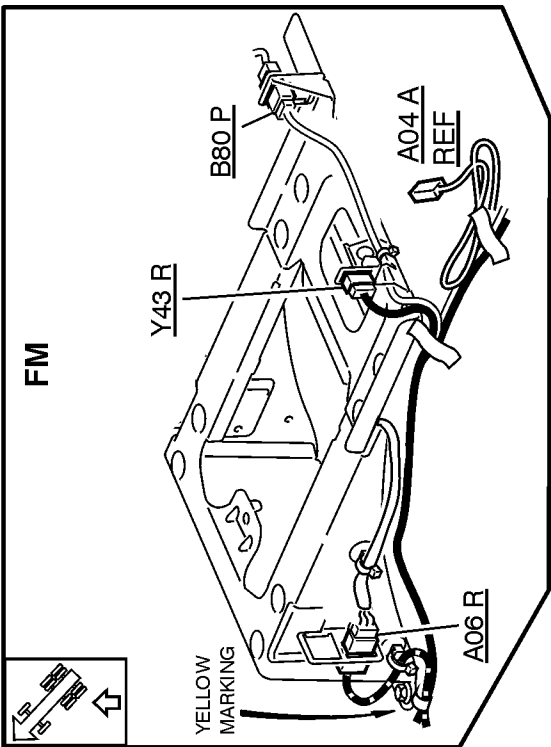




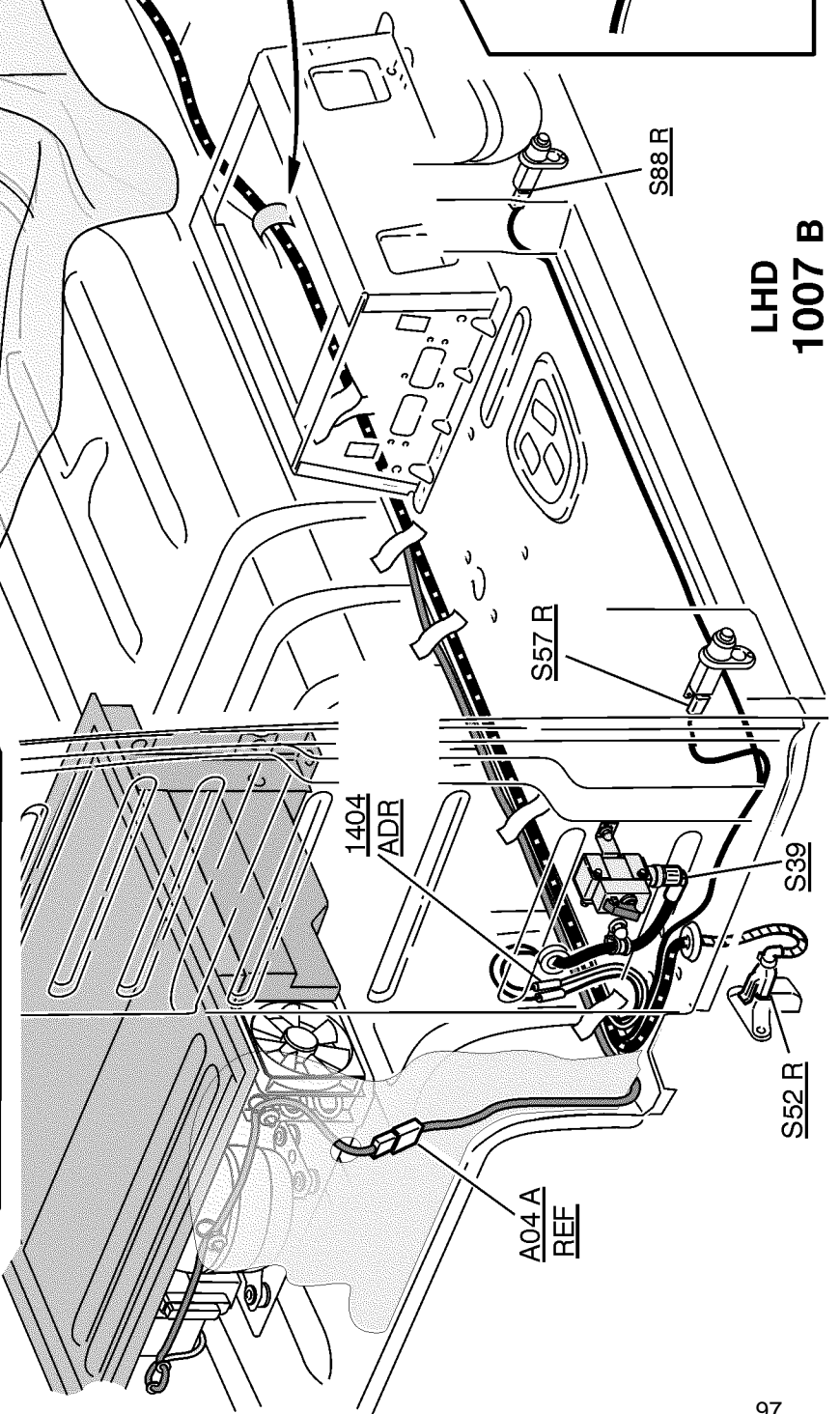




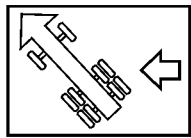
1007 B
LHD



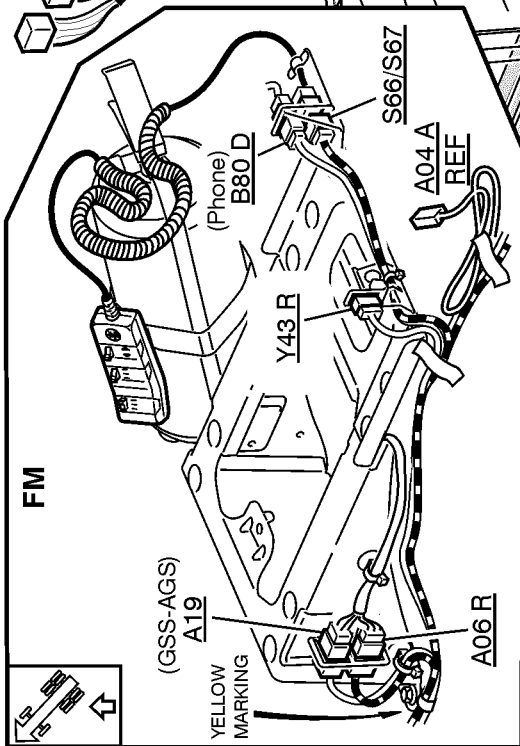
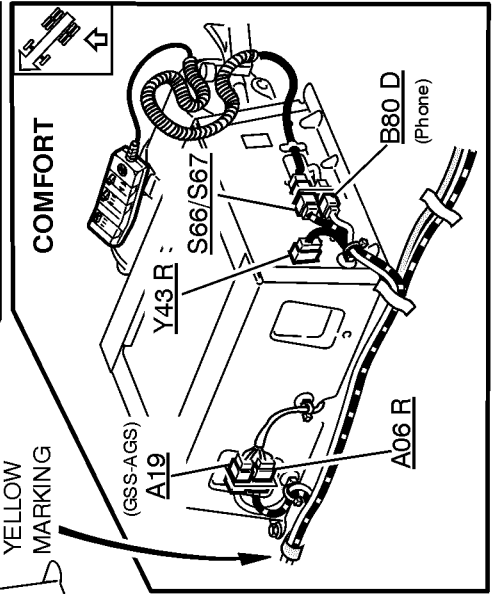
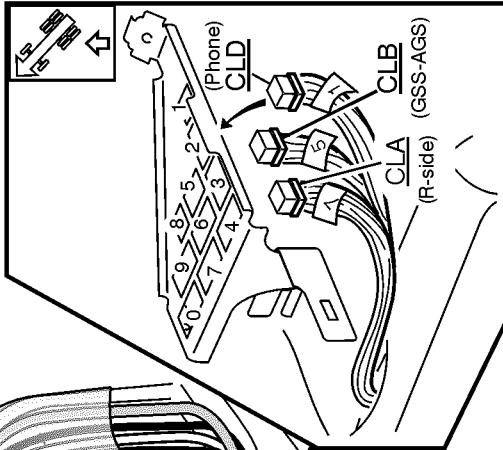
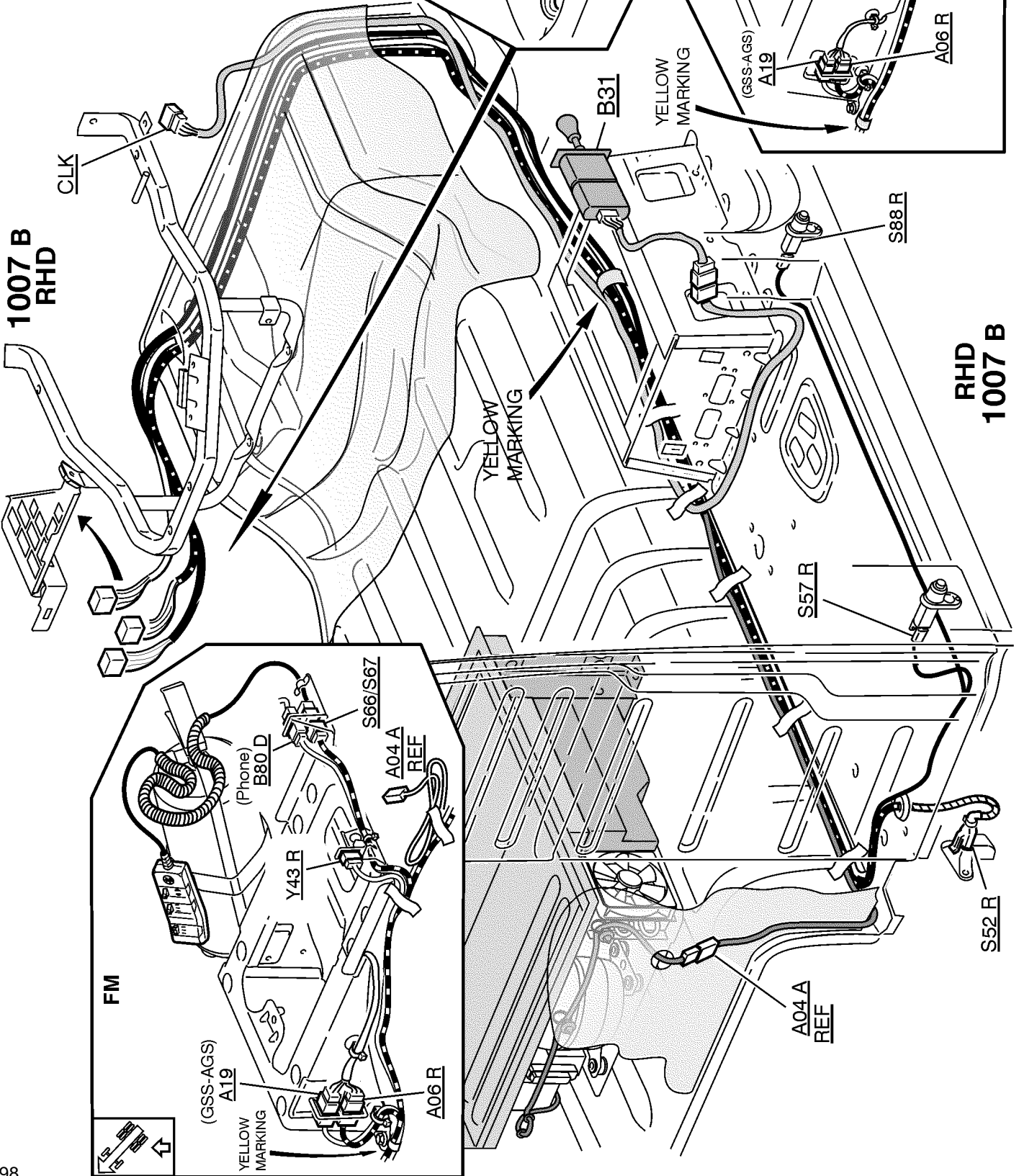
YELLOW MARKING

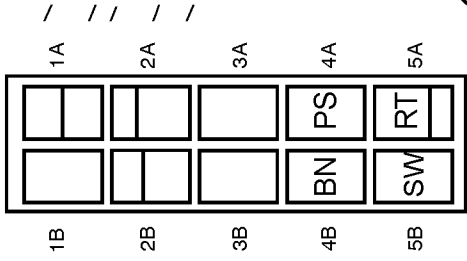
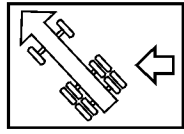


LHD
1007 B

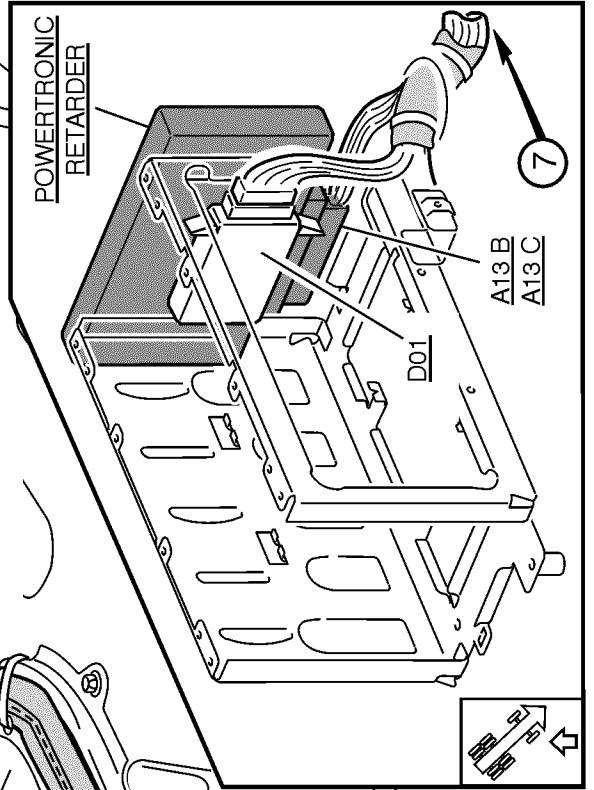
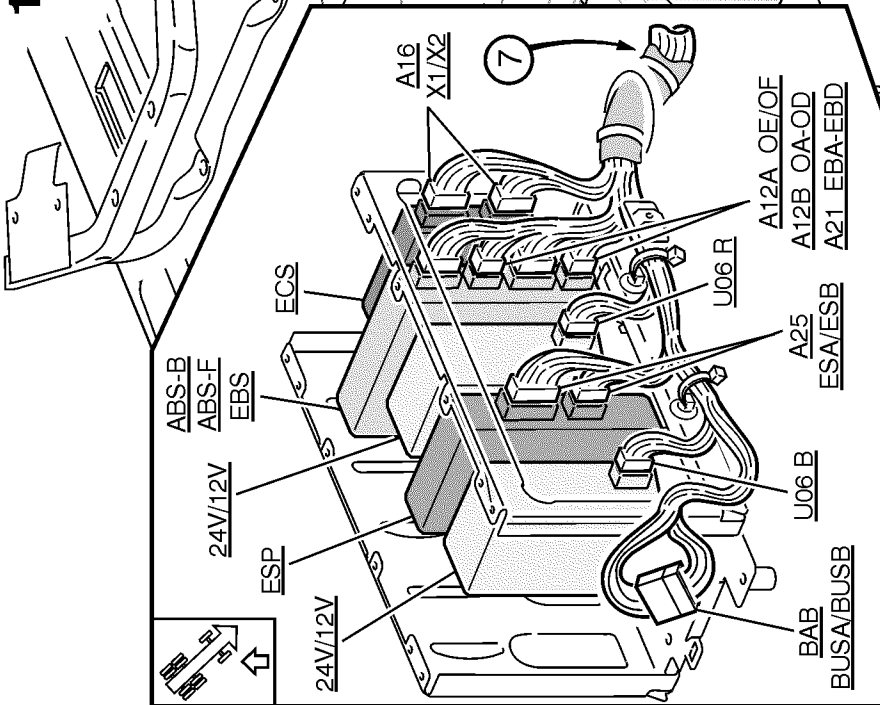


**1007 B
RHD**

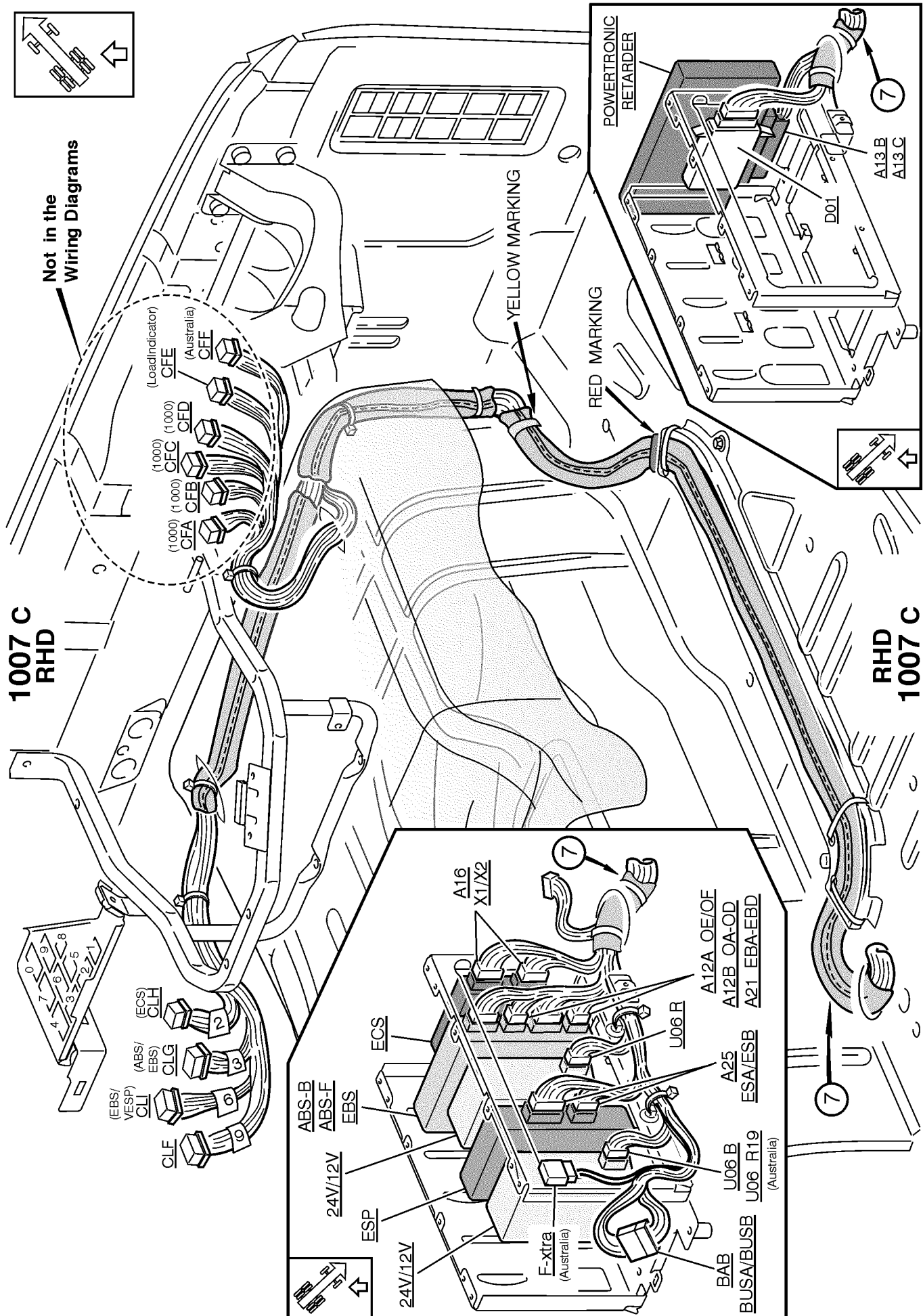


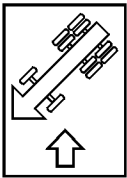


1007 C
LHD

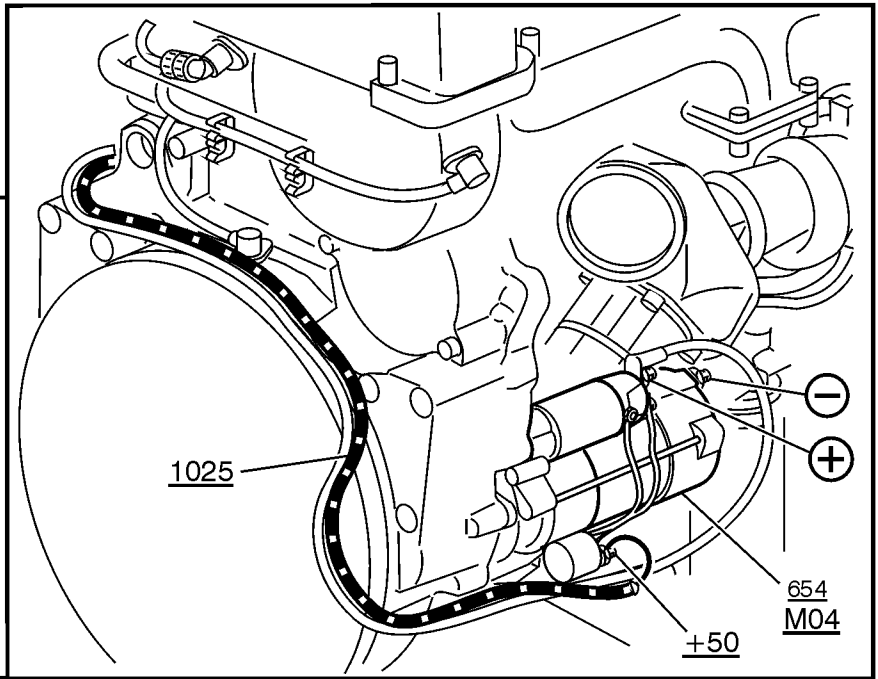
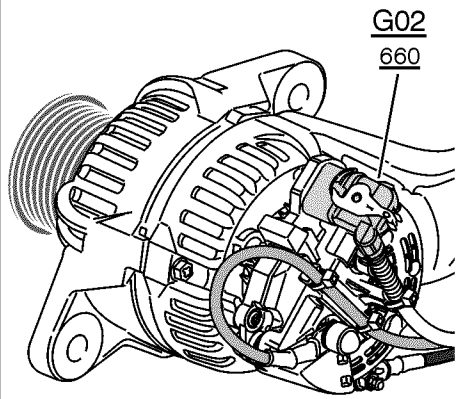


LHD
1007 C

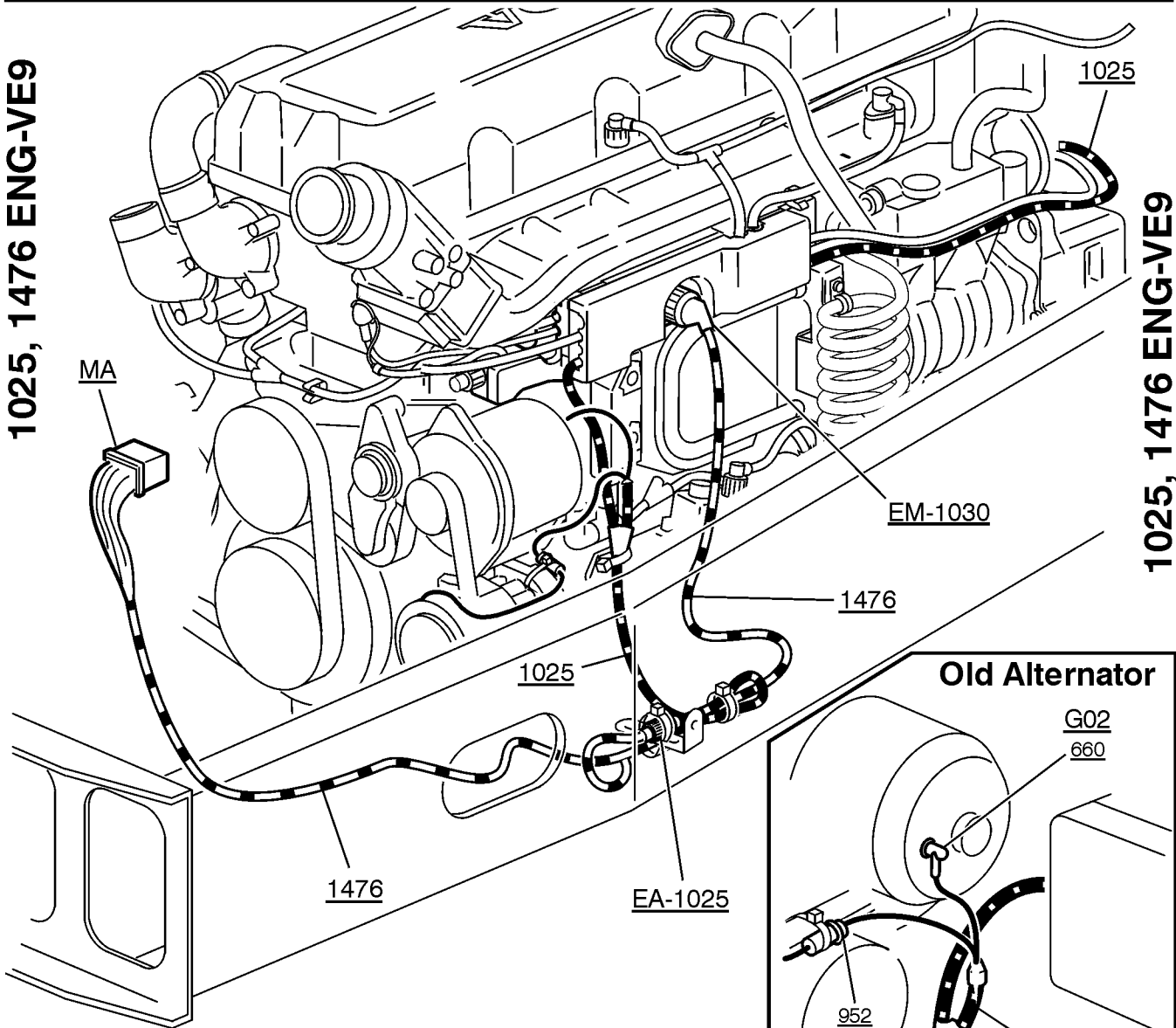




New Alternator

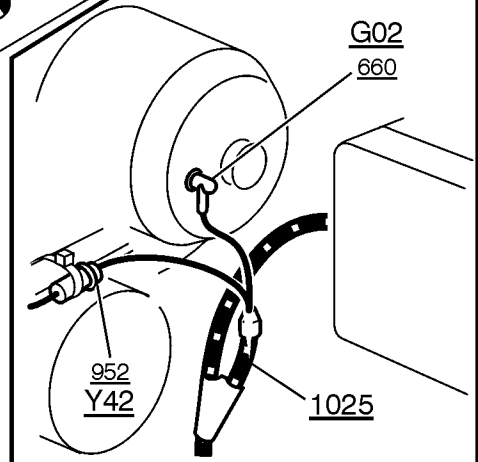


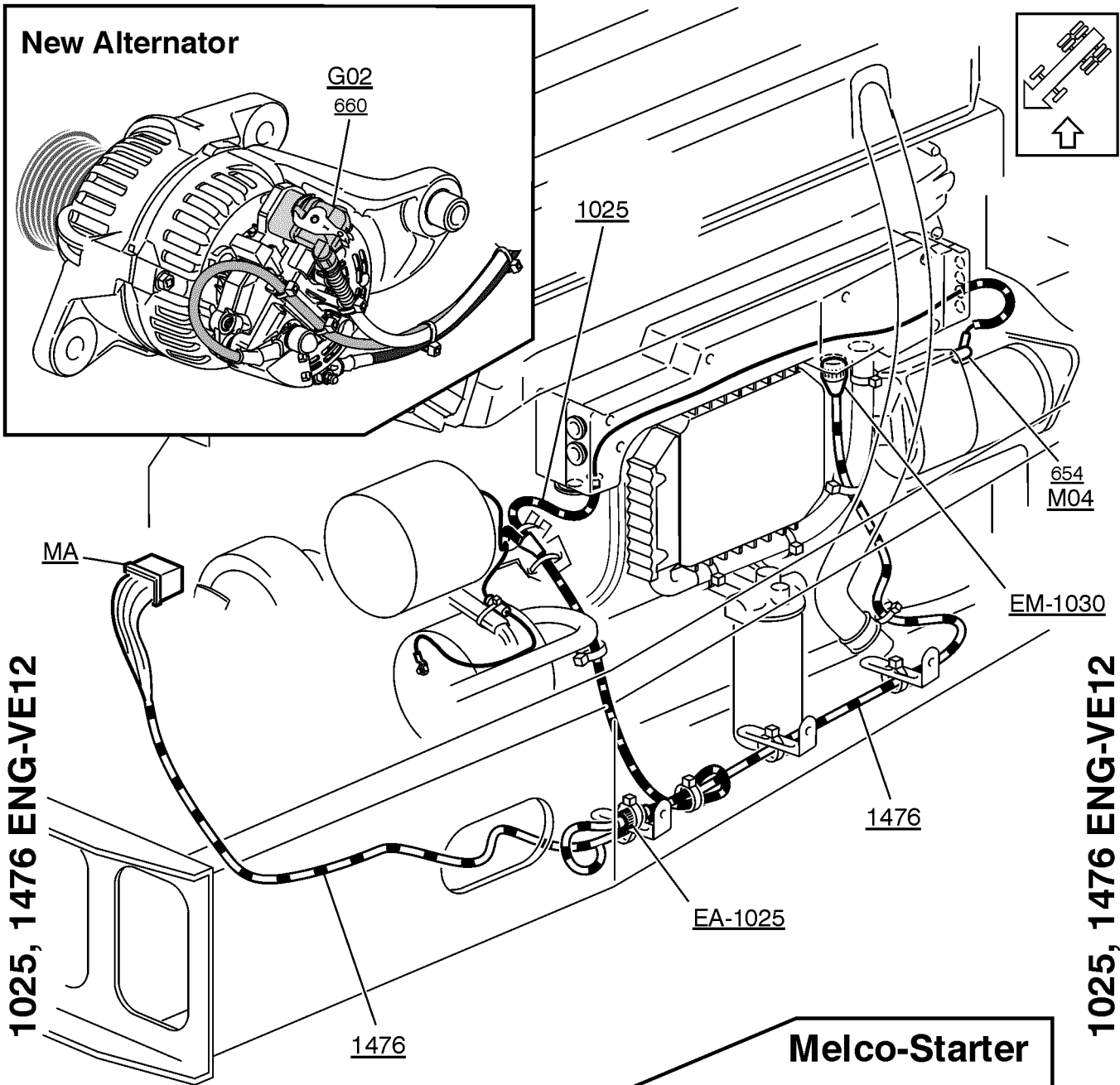
1025, 1476 ENG-VE9



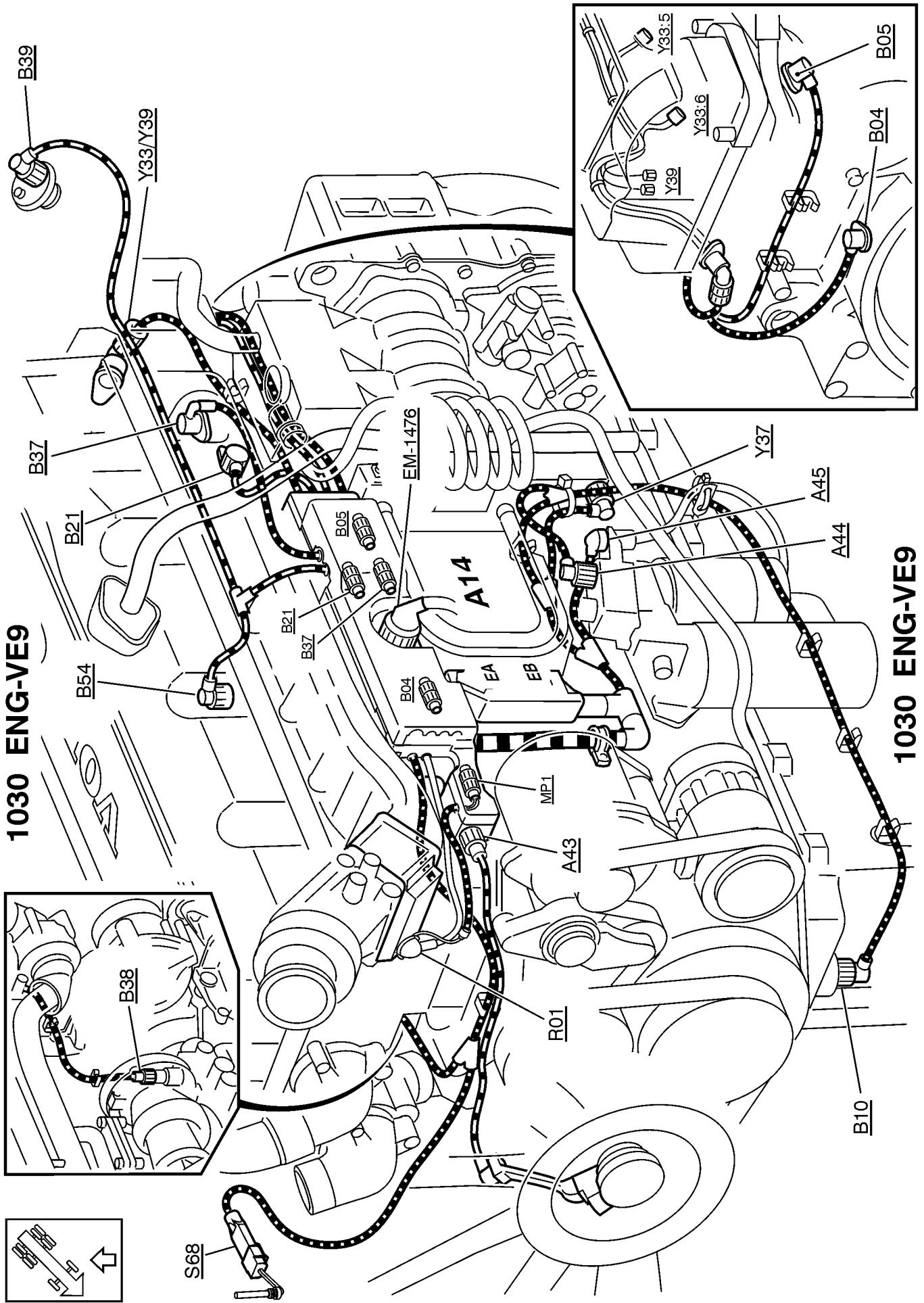
1025, 1476 ENG-VE9

Old Alternator





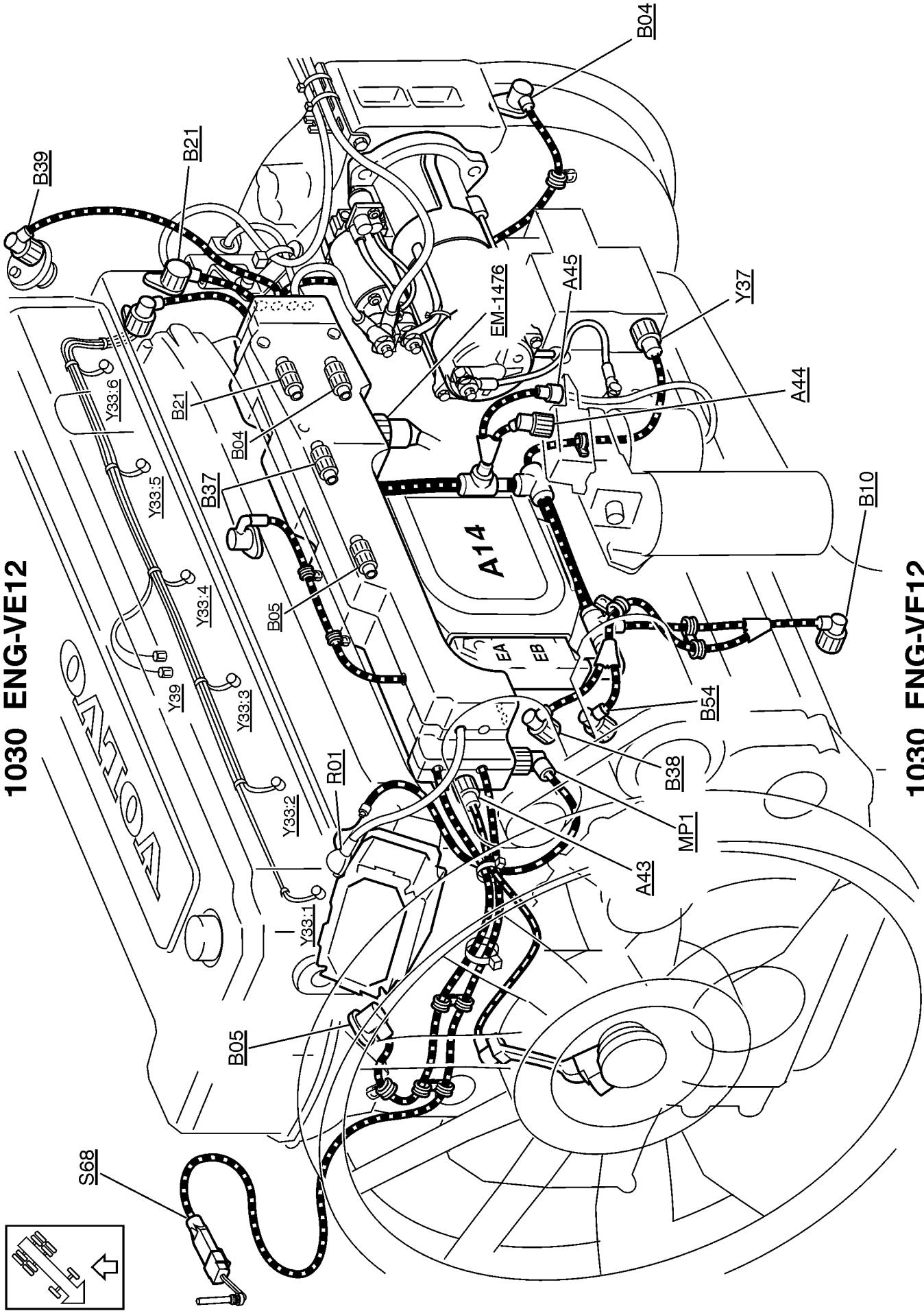
1030 ENG-VE9

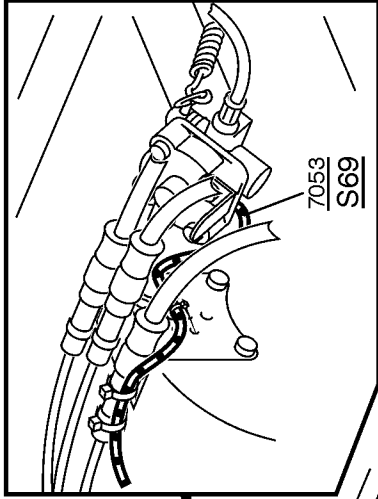
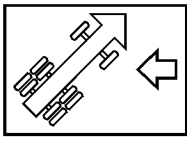


1030 ENG-VE9

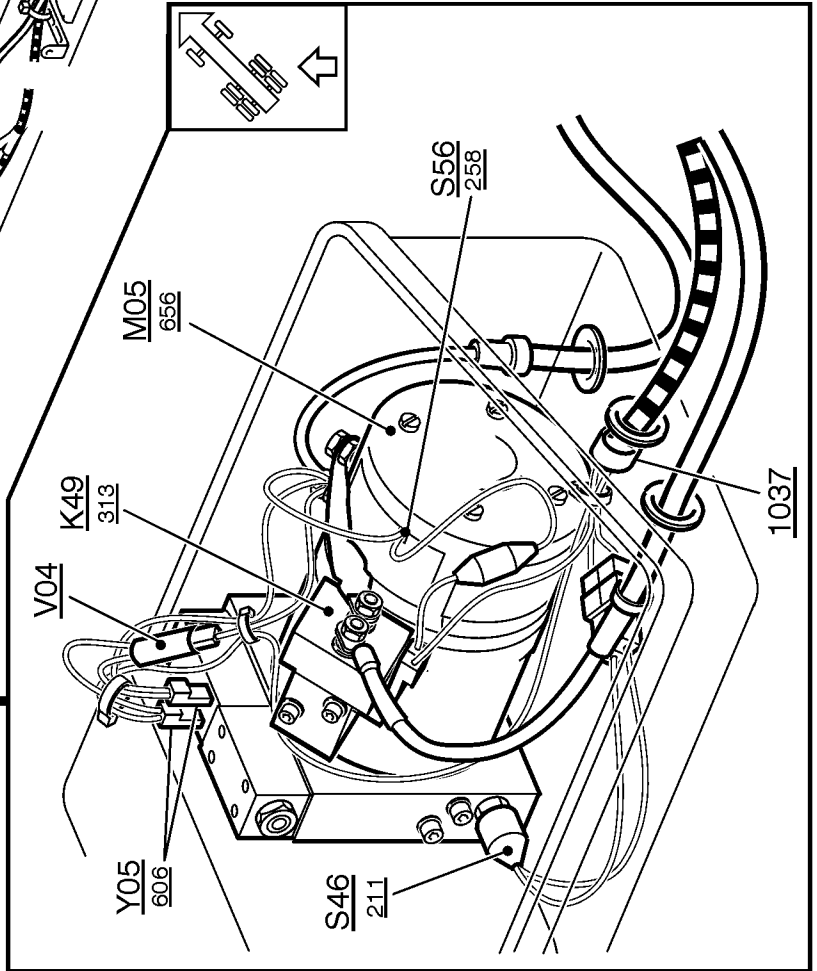
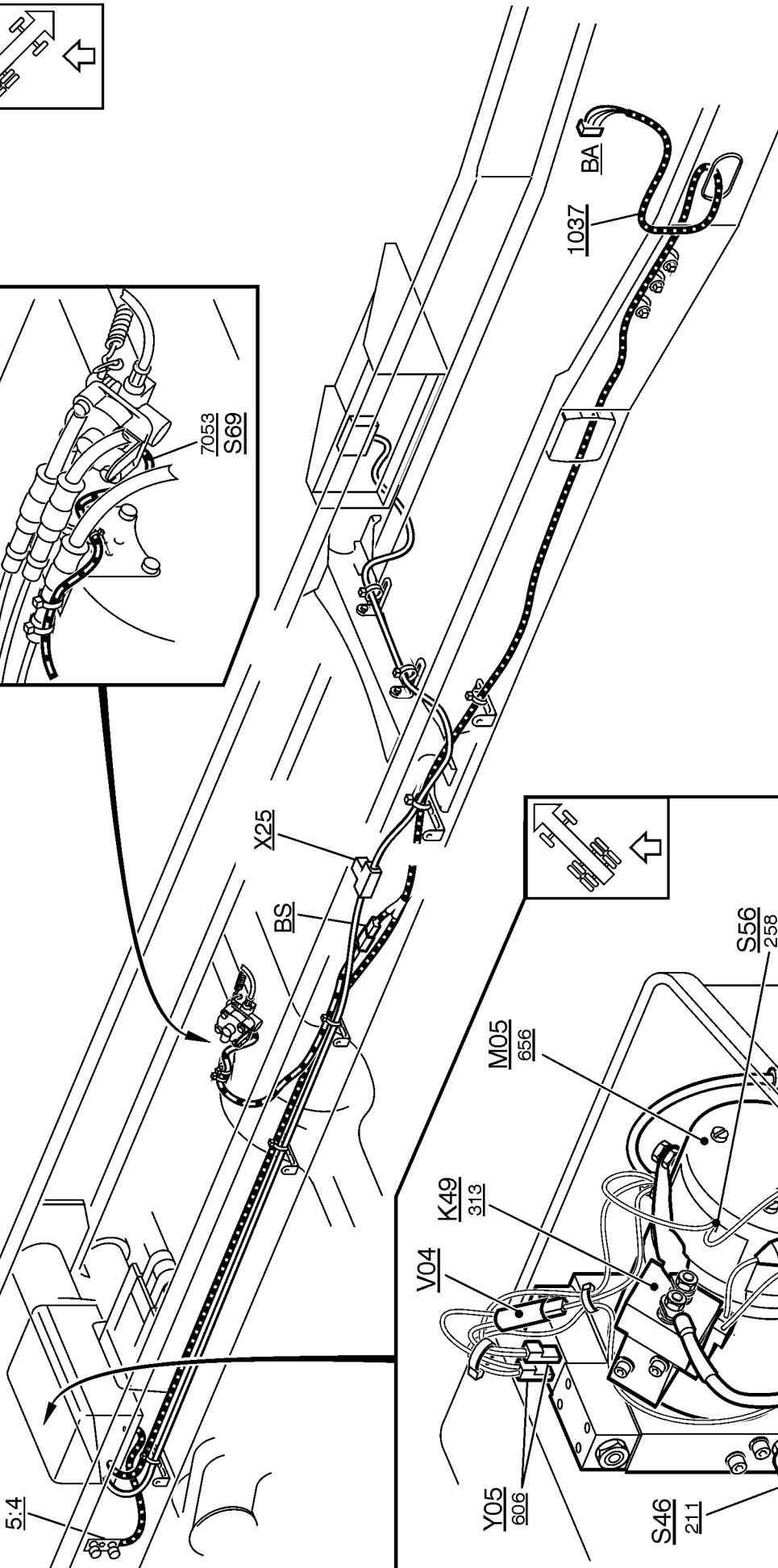
1030 ENG-VE12

1030 ENG-VE12

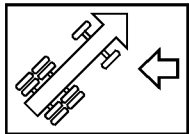




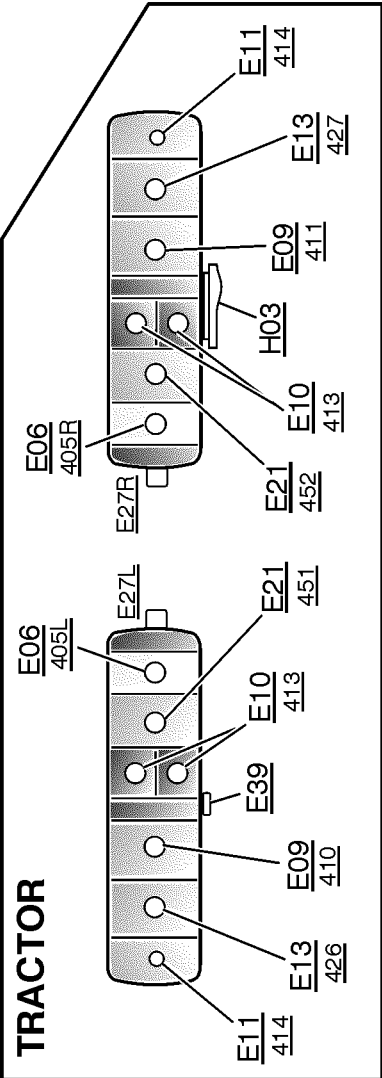
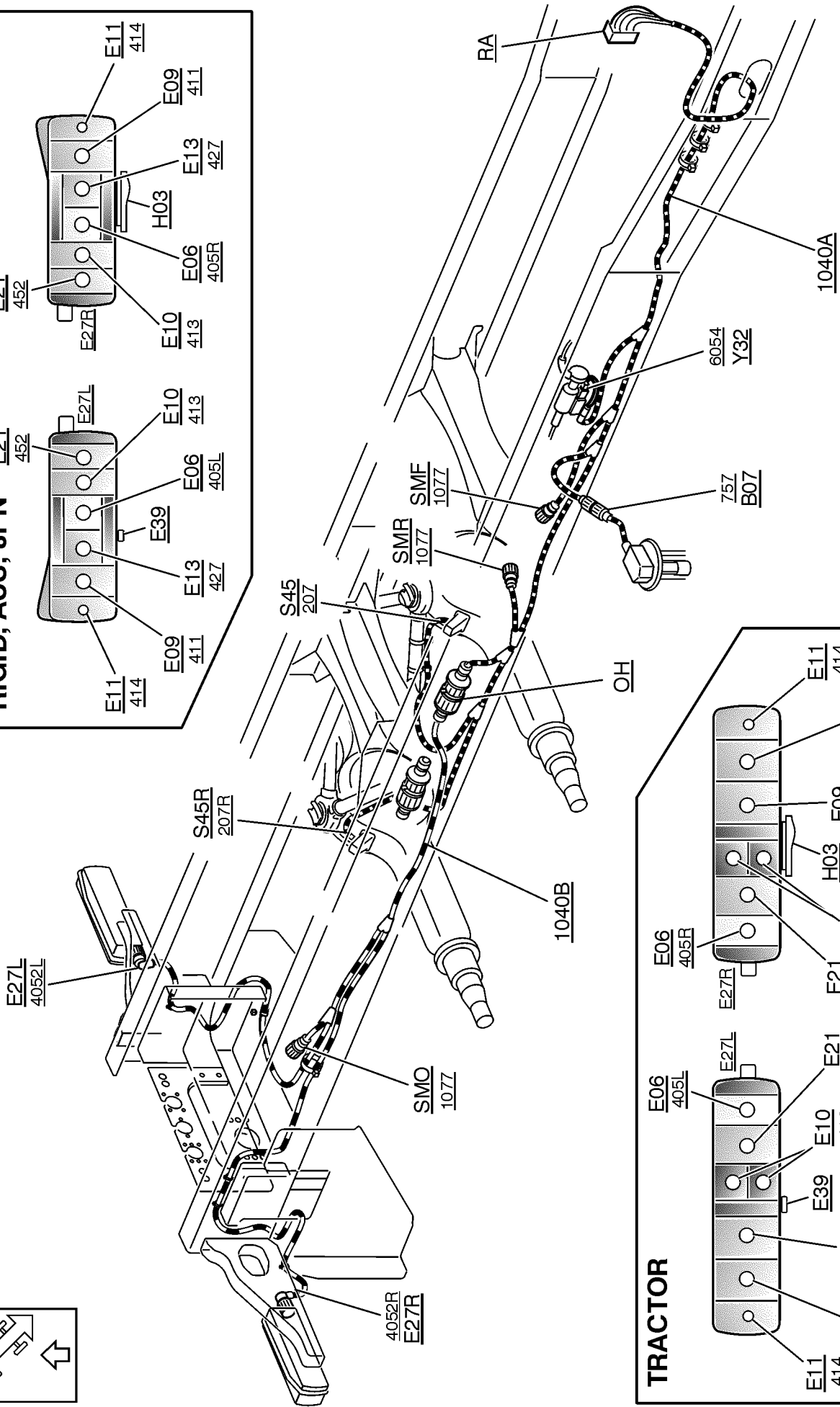
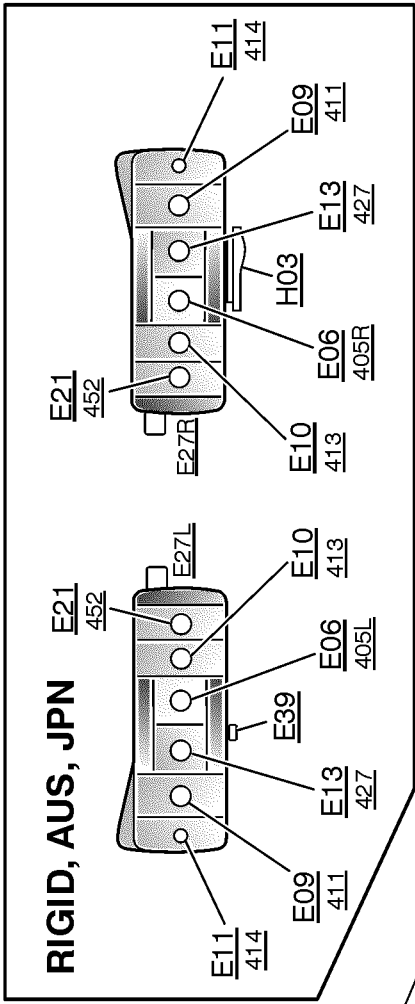
1037



1037



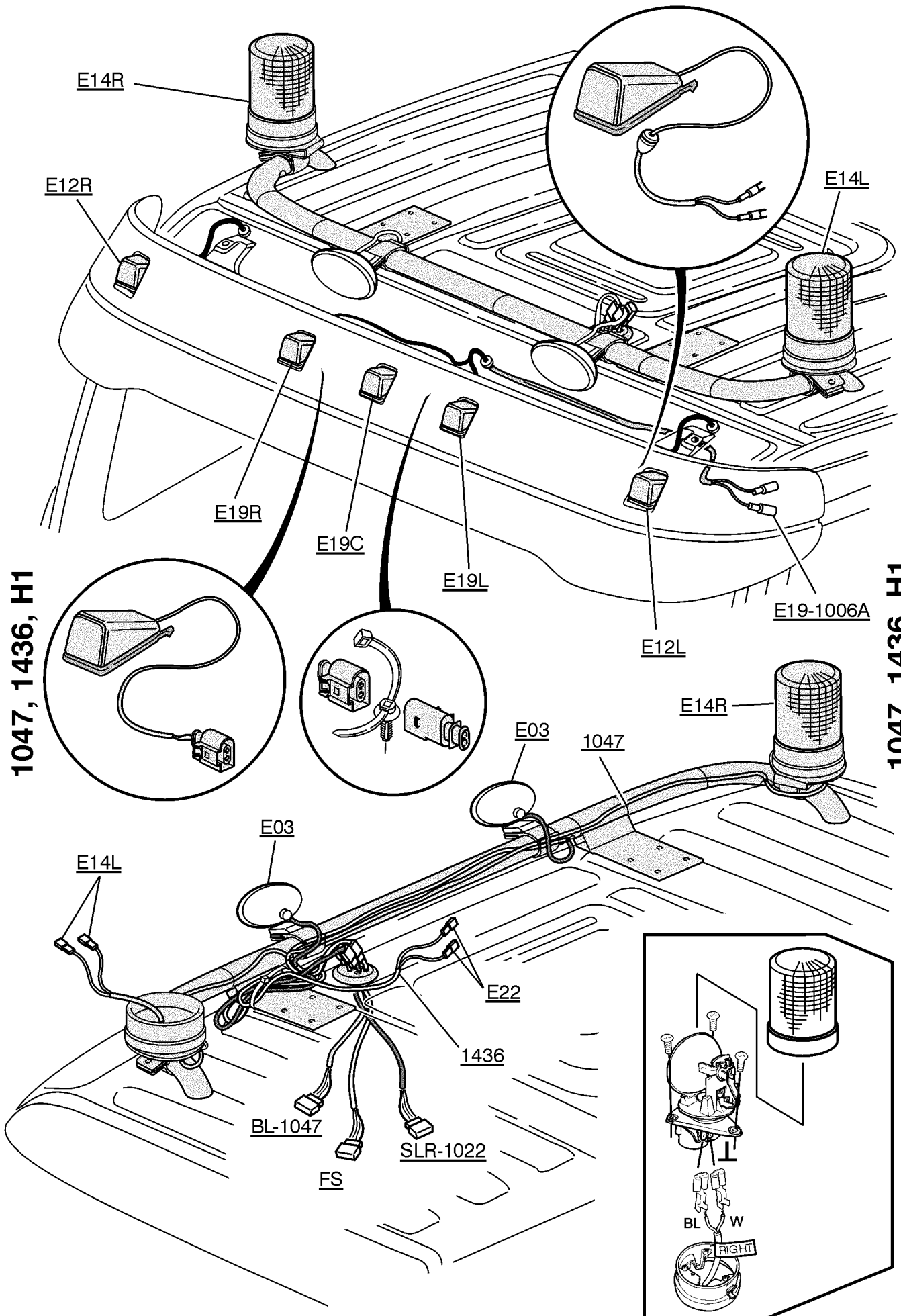
1040



1040

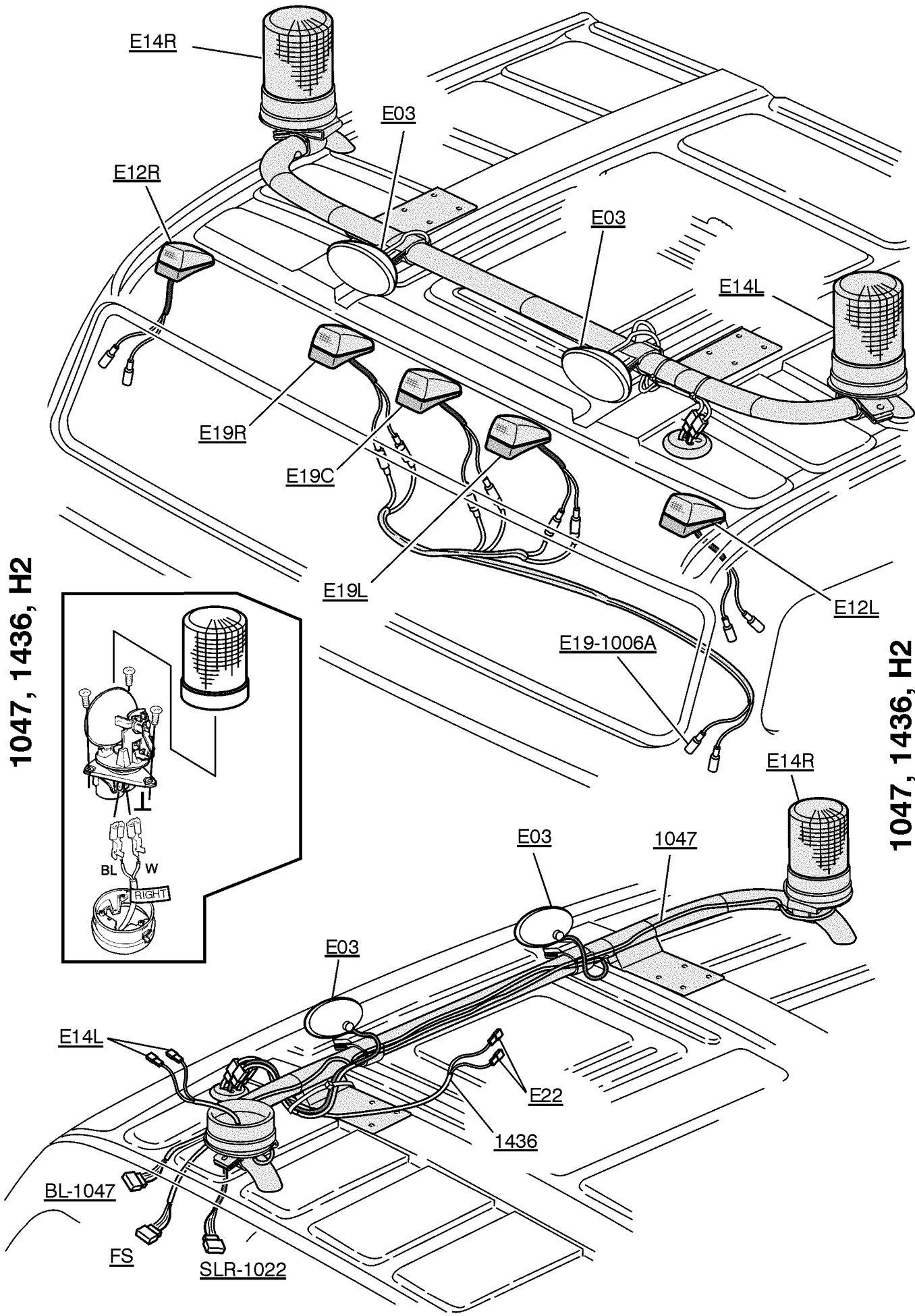
1047, 1436, H1

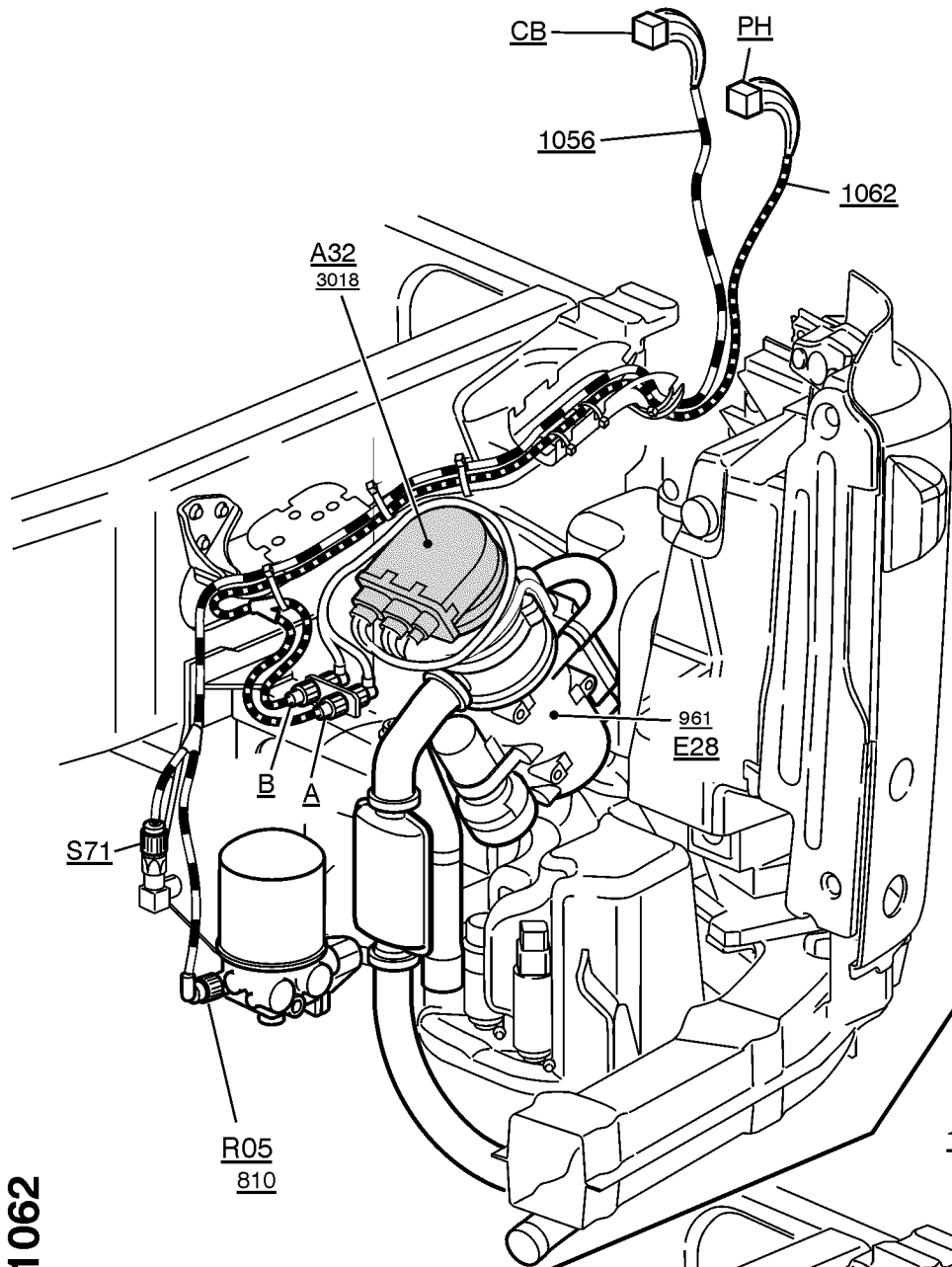
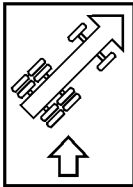
1047, 1436, H1



1047, 1436, H2

1047, 1436, H2

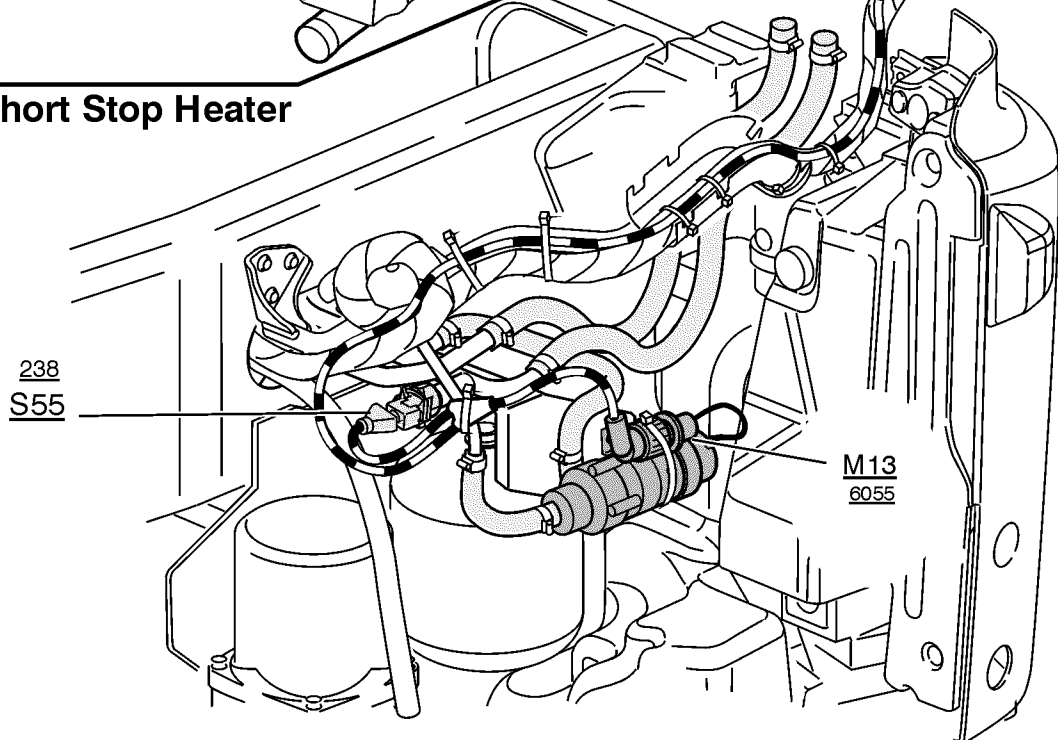




Short Stop Heater

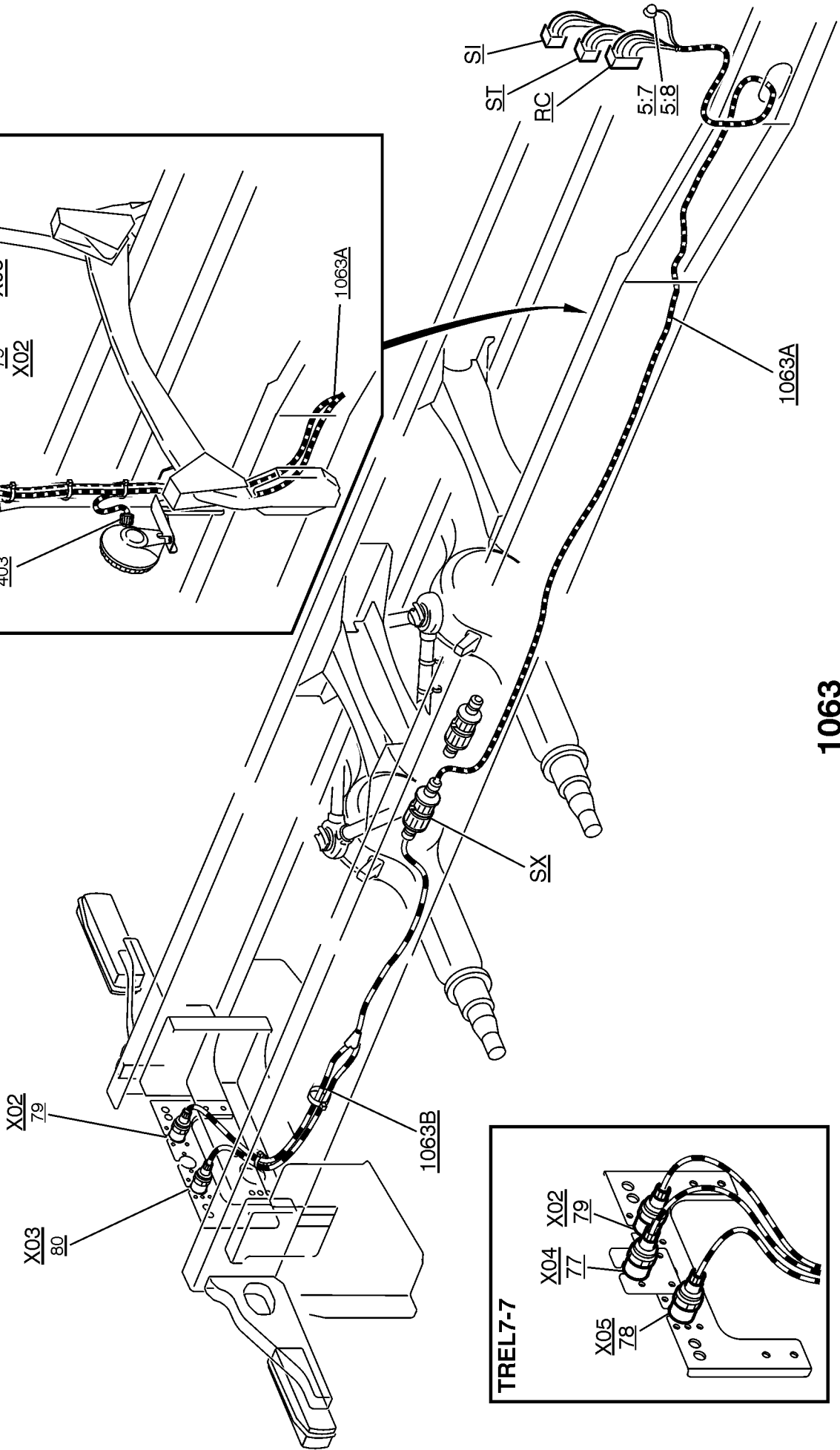
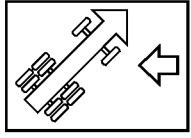
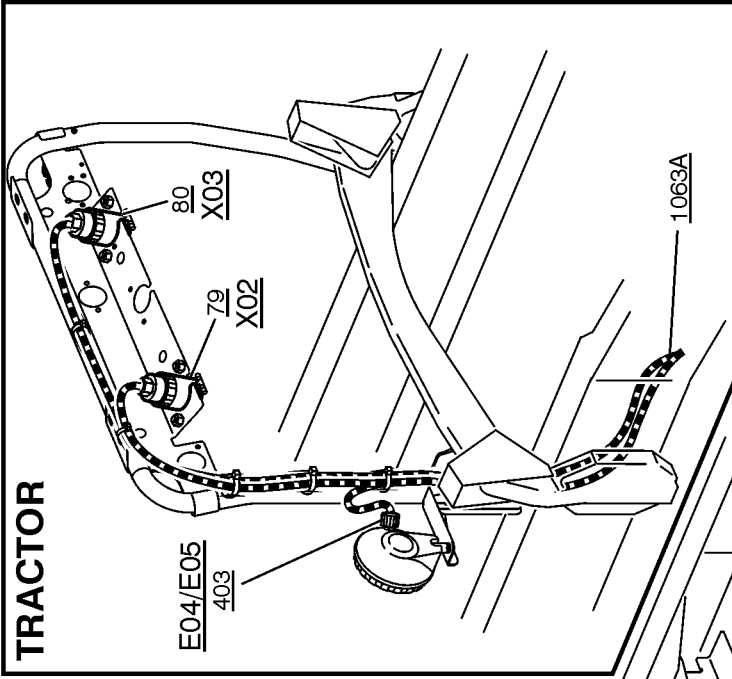
1056, 1062

1056, 1062

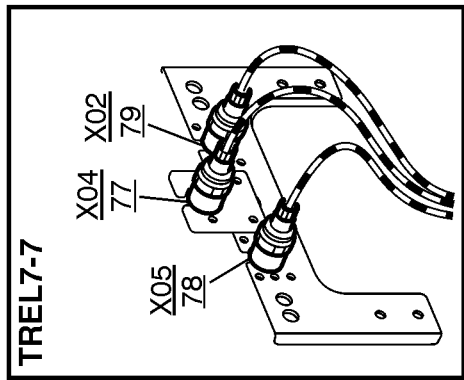


1063

TRACTOR

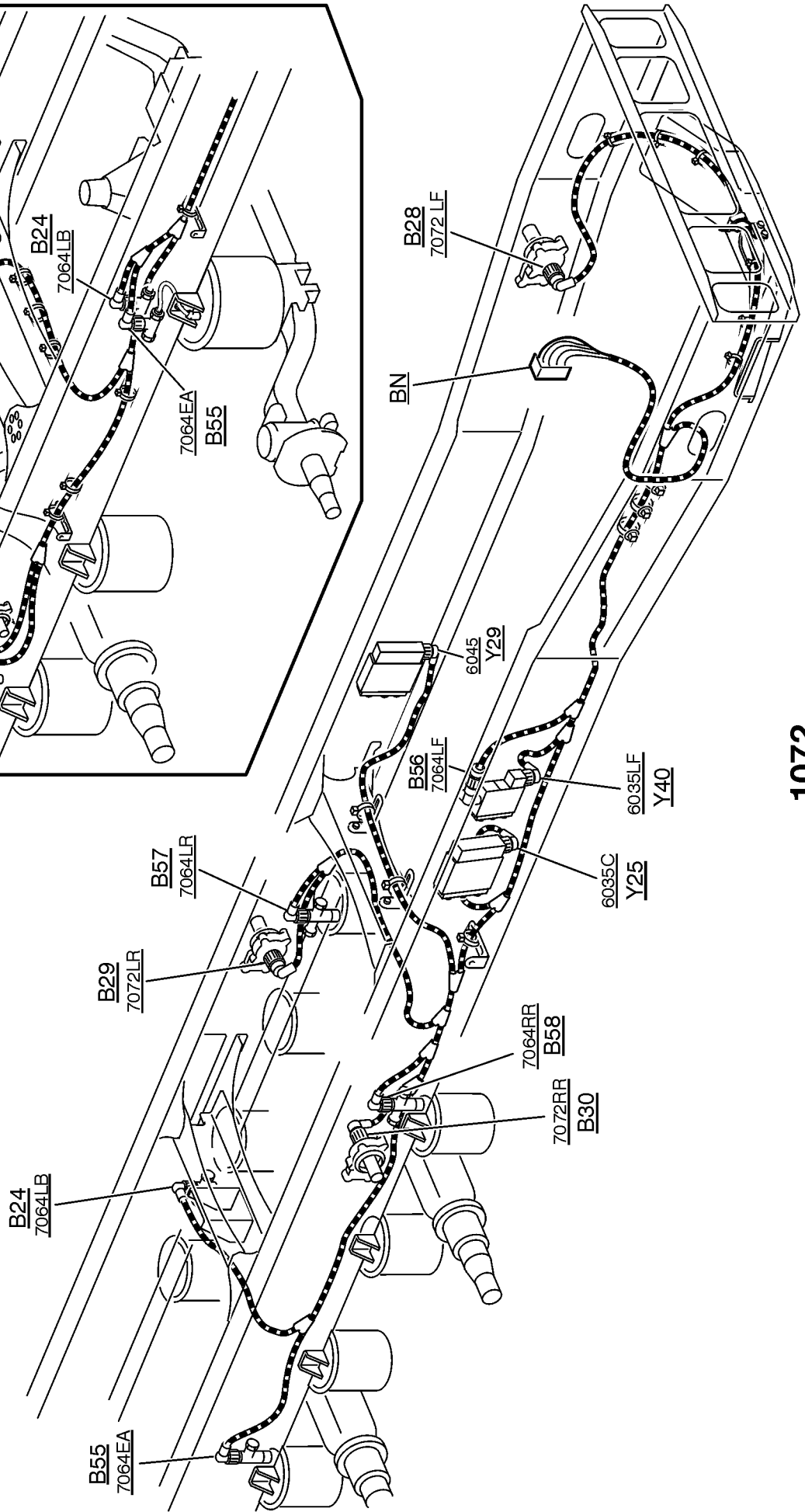
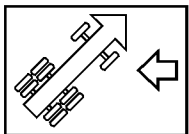
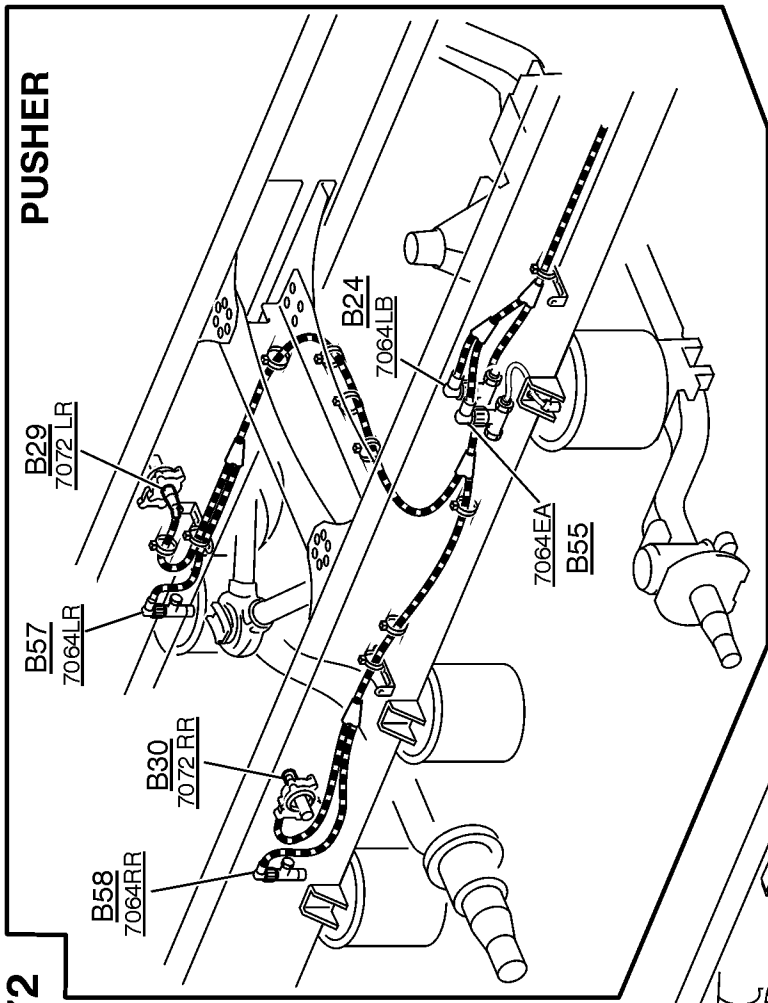


1063

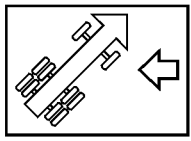


1072

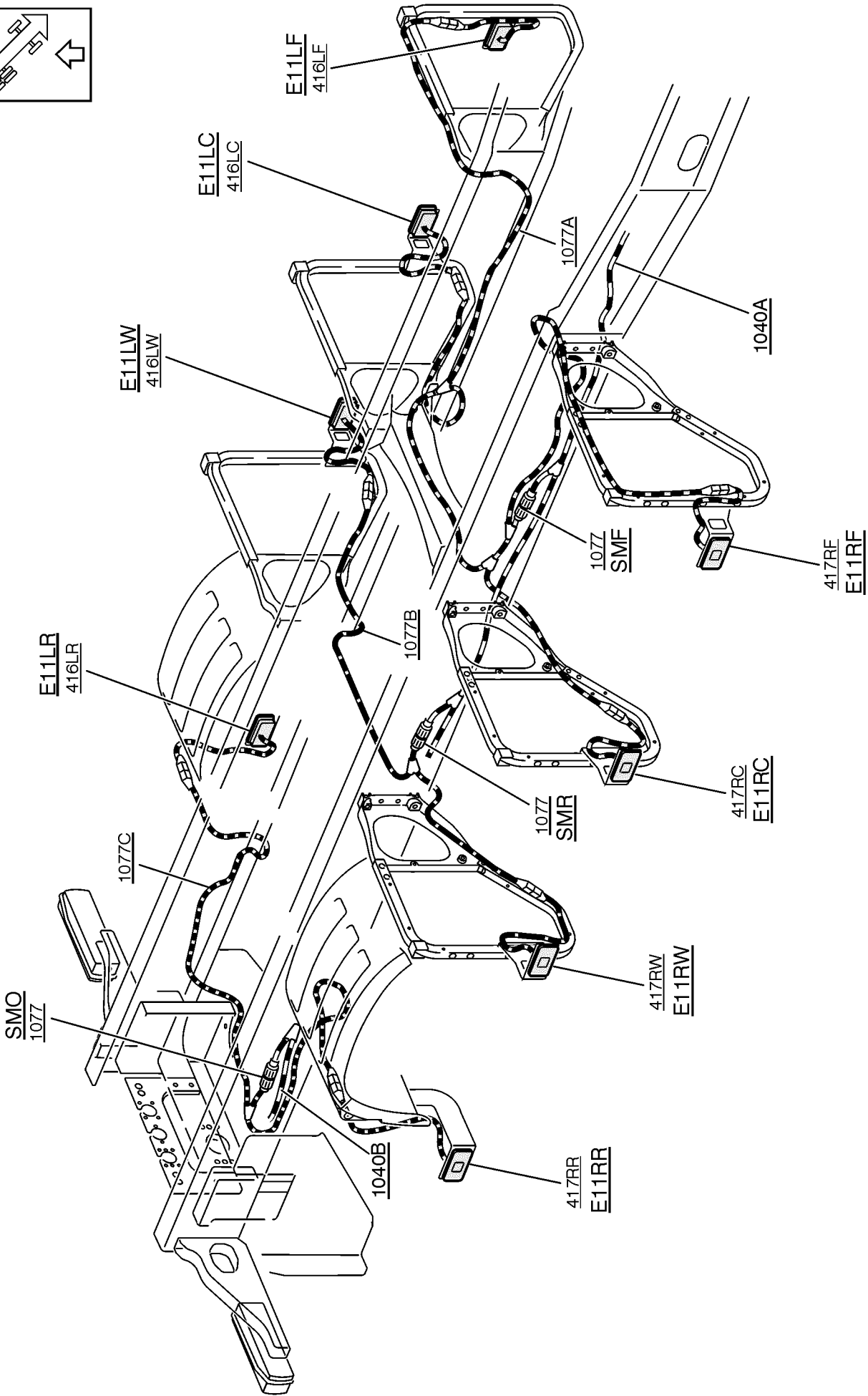
PUSHER



1072

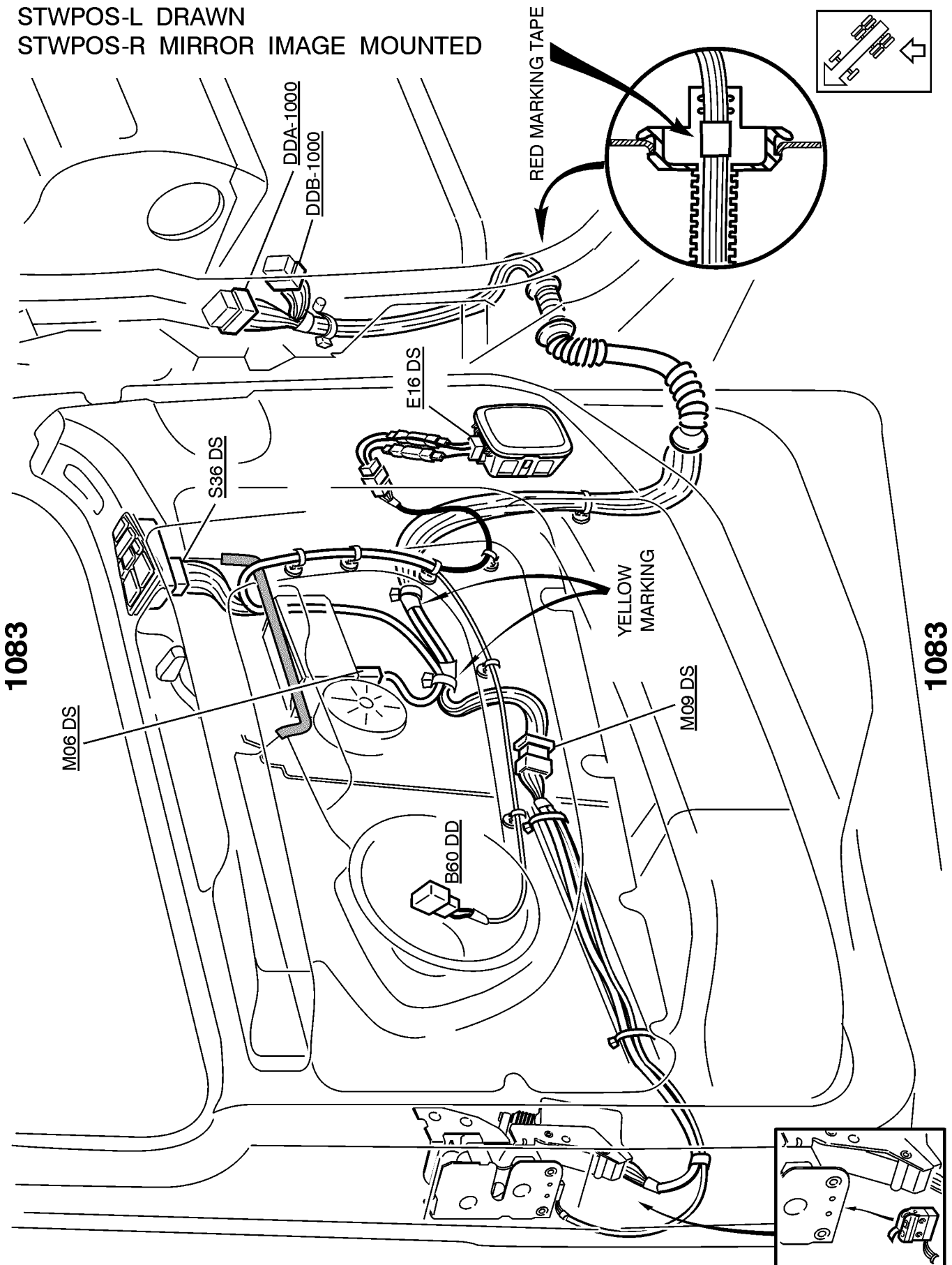


1077

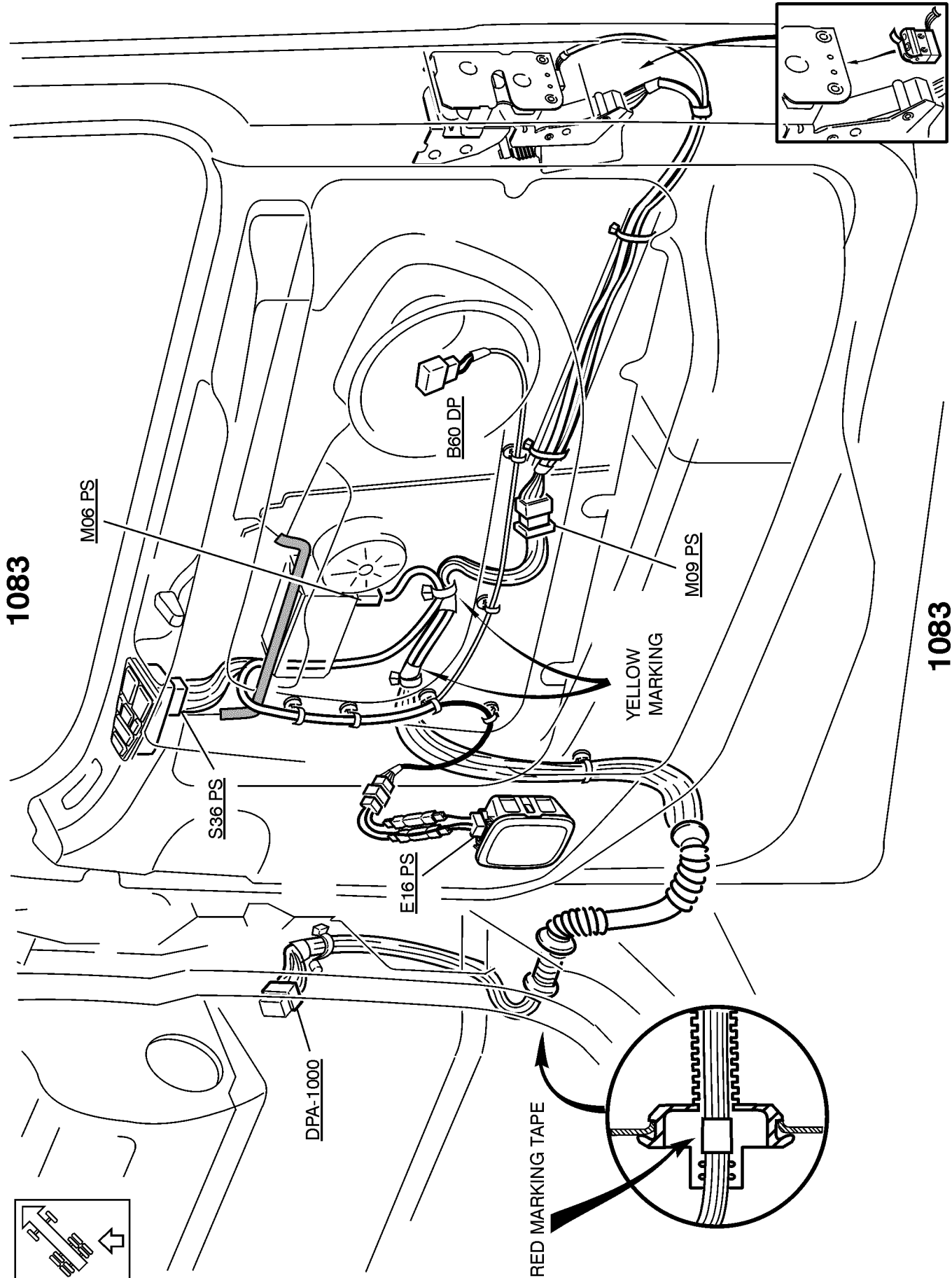


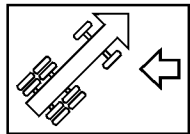
1077

STWPOS-L DRAWN
STWPOS-R MIRROR IMAGE MOUNTED



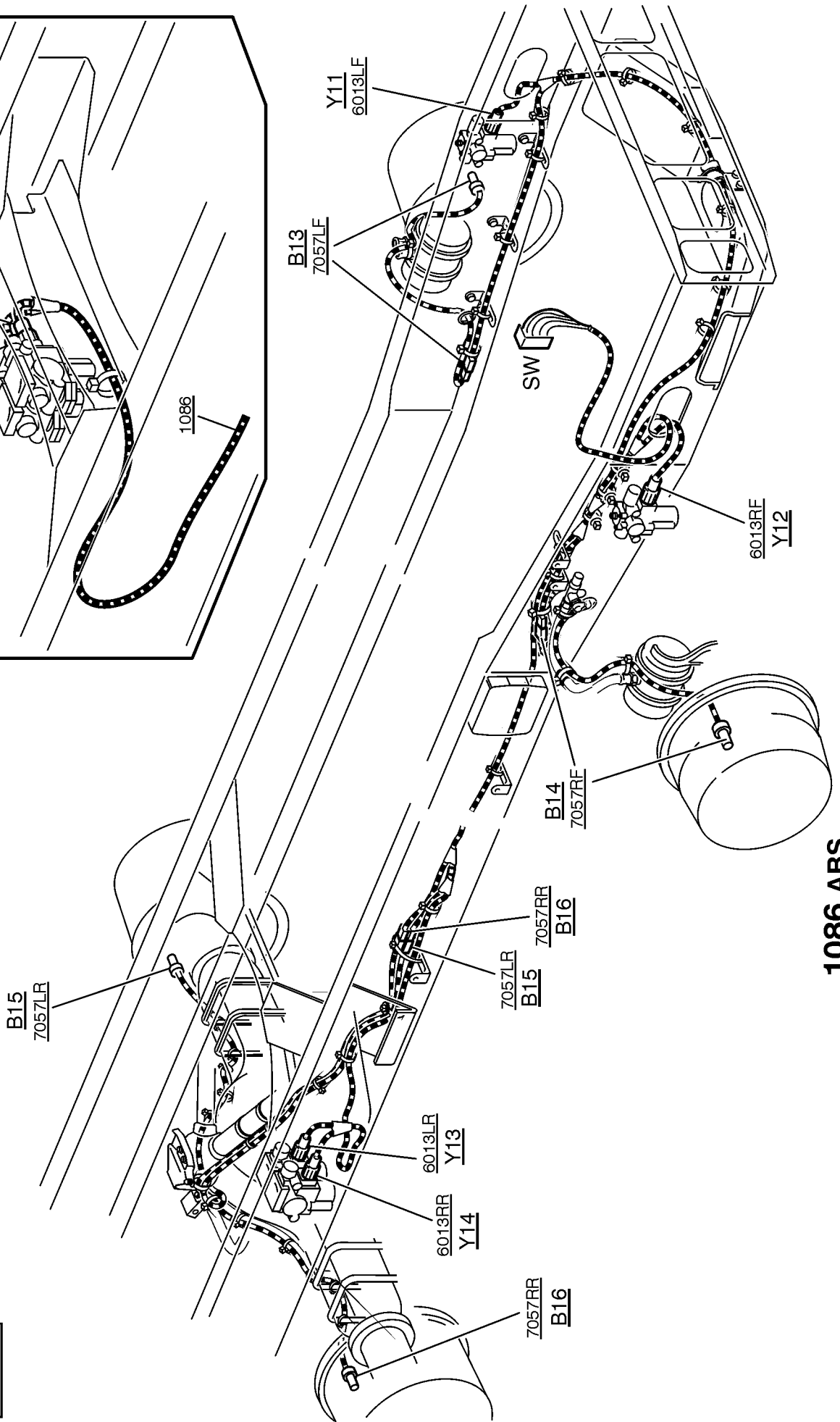
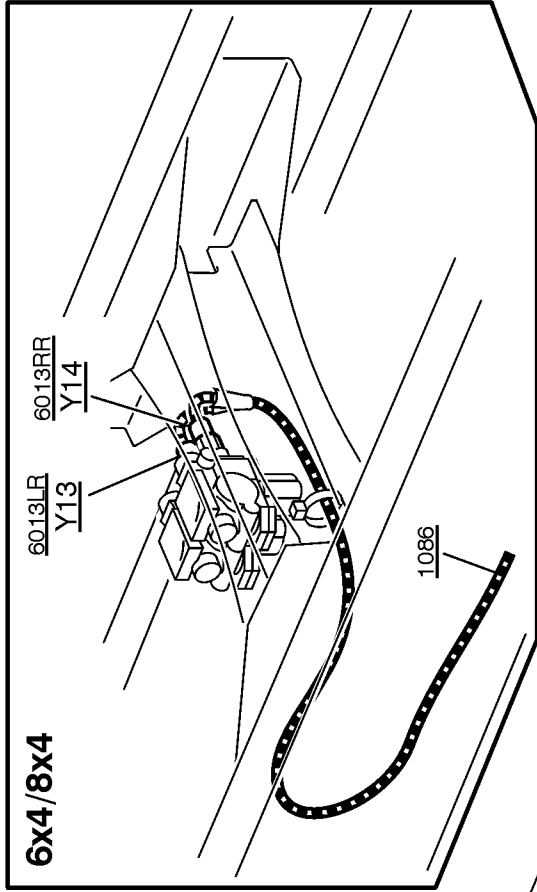
STWPOS-L DRAWN
STWPOS-R MIRROR IMAGE MOUNTED

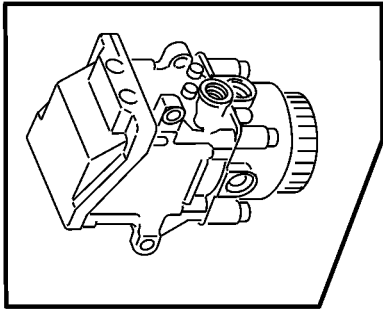
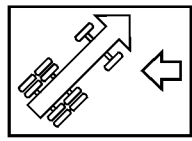




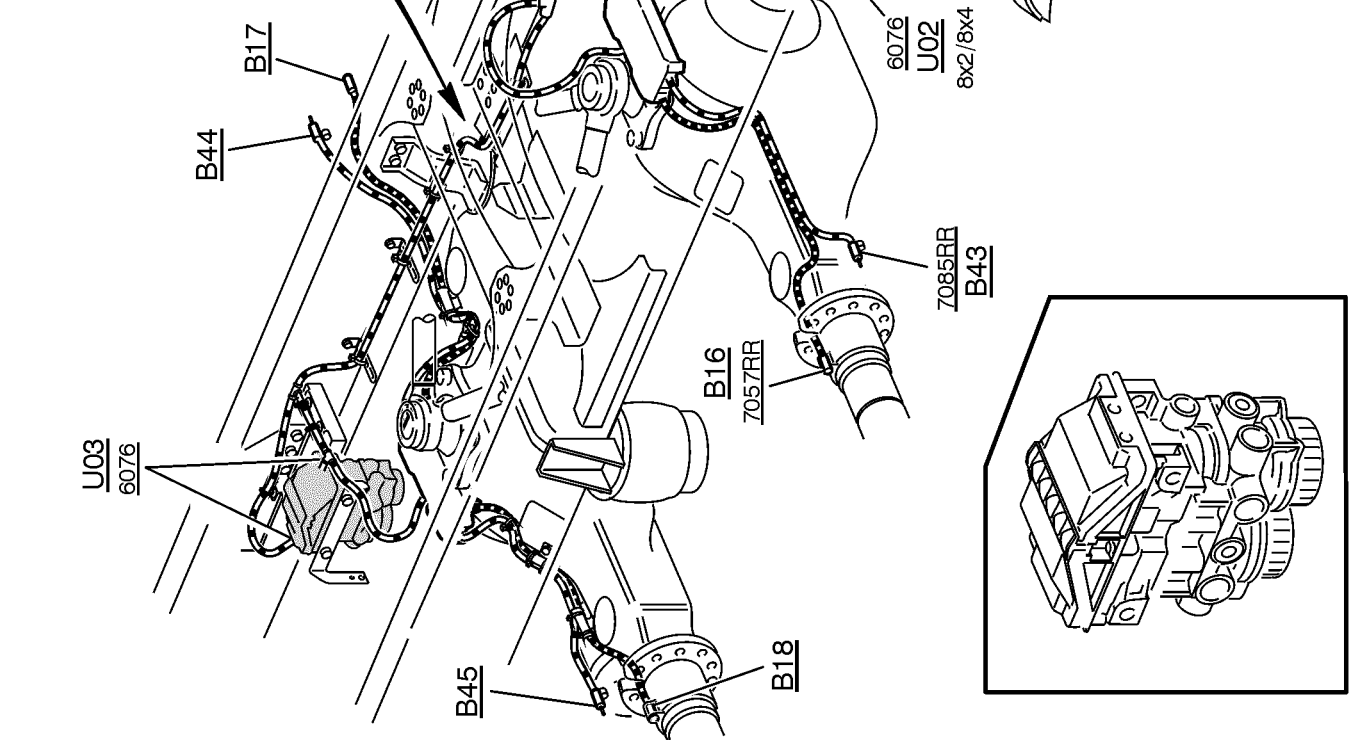
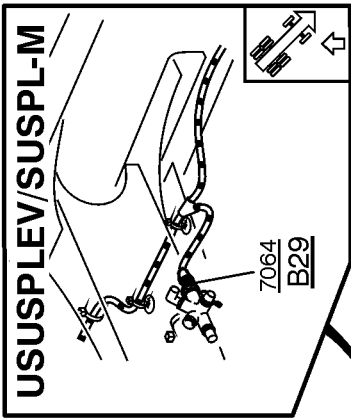
1086 ABS

6x4/8x4

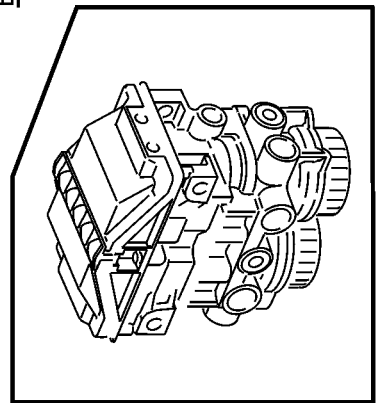




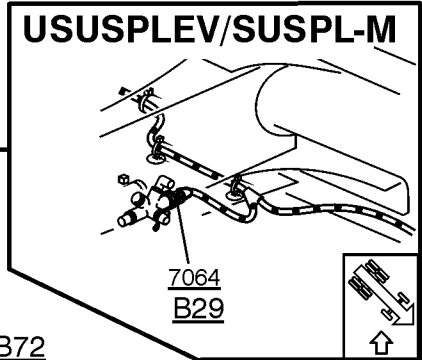
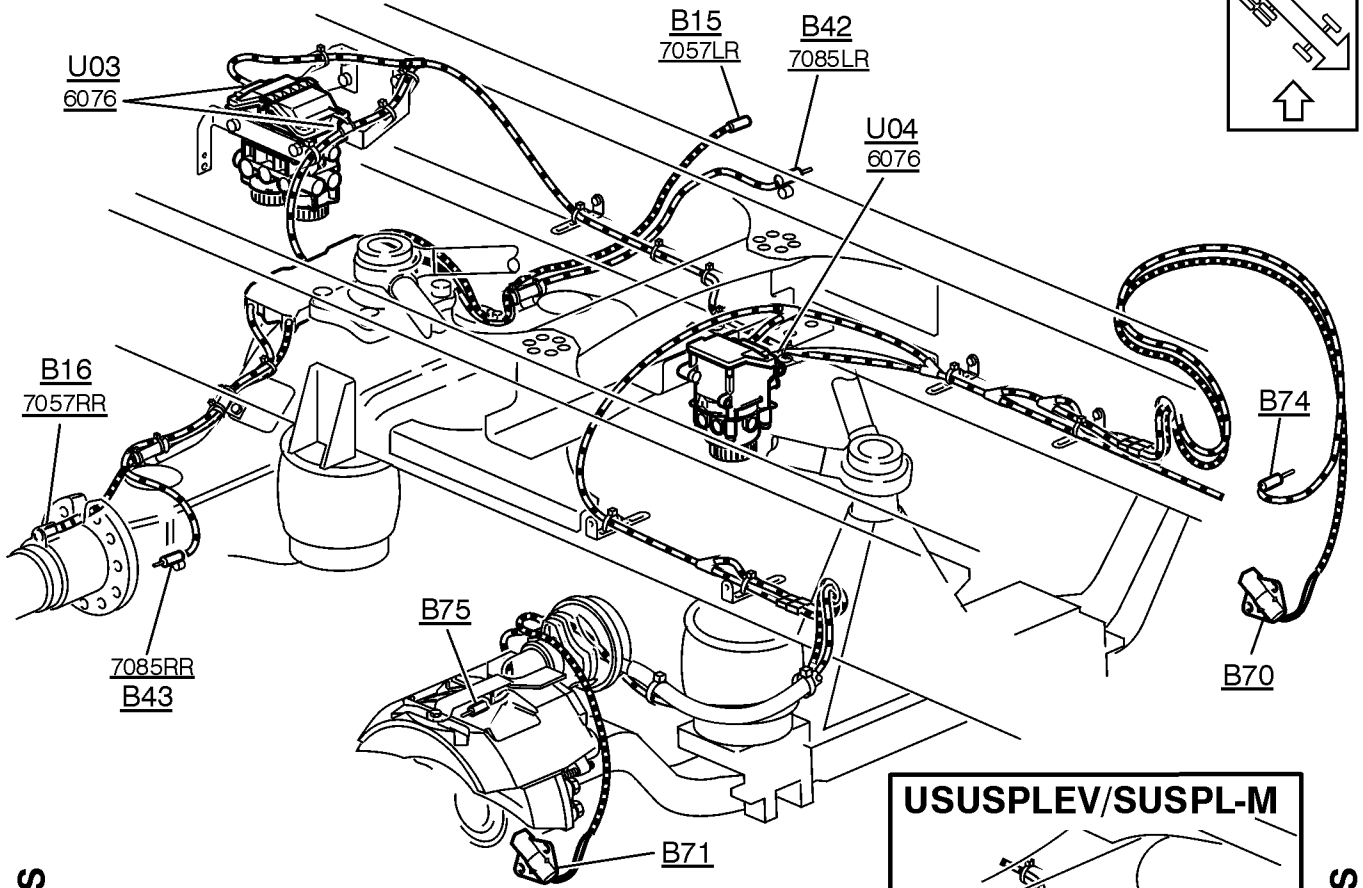
1086 EBS



1086 EBS



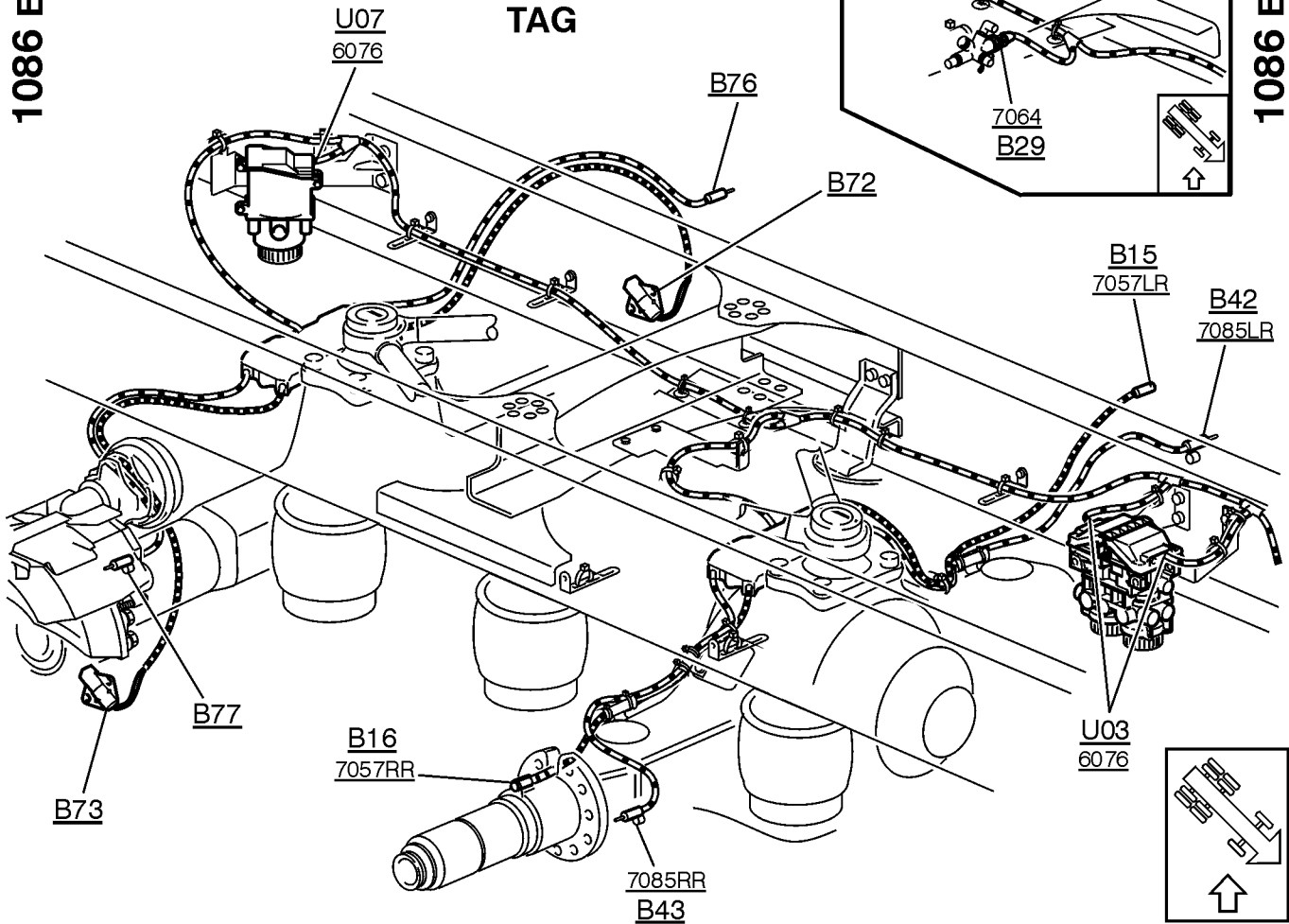
PUSHER

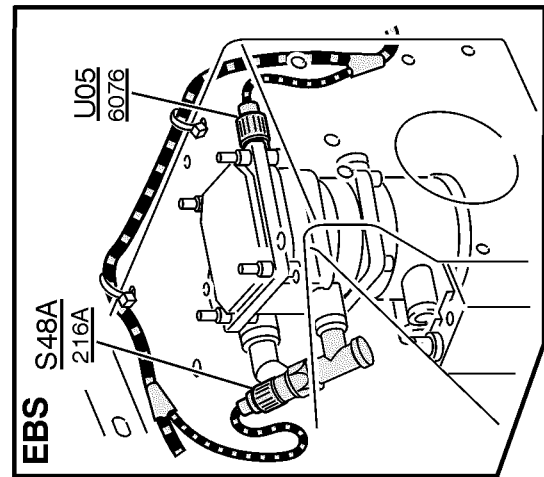
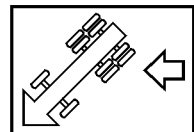


1086 EBS

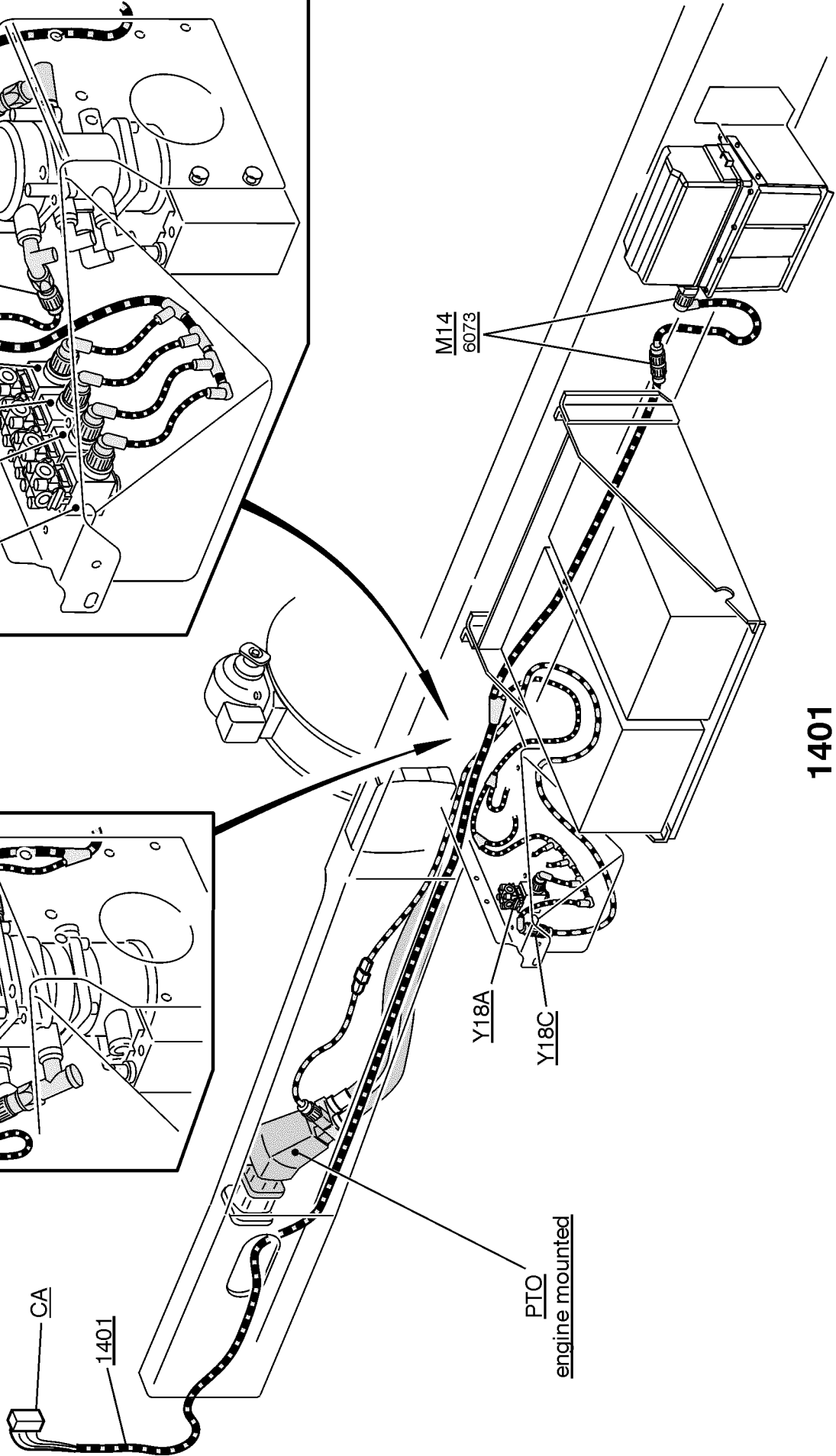
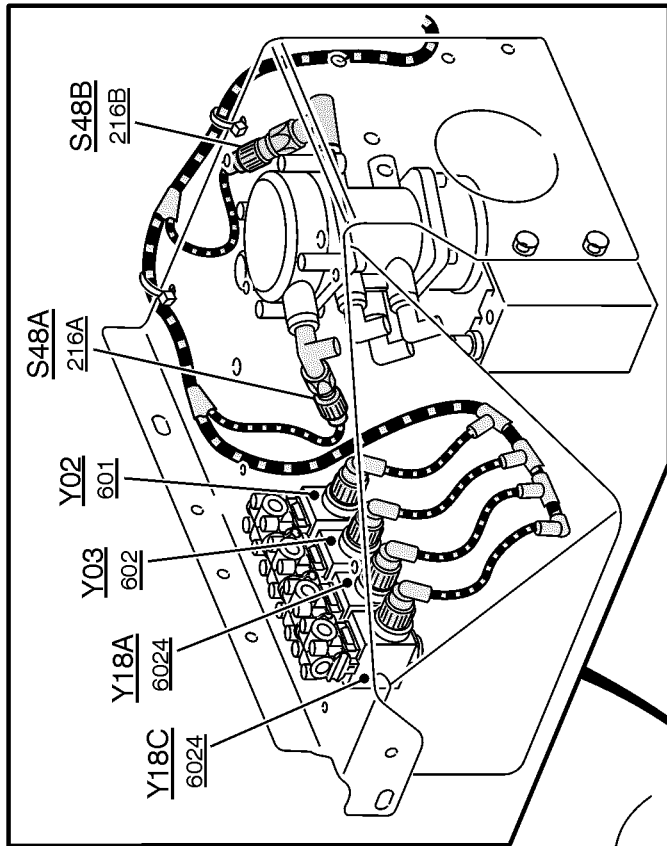
1086 EBS

TAG

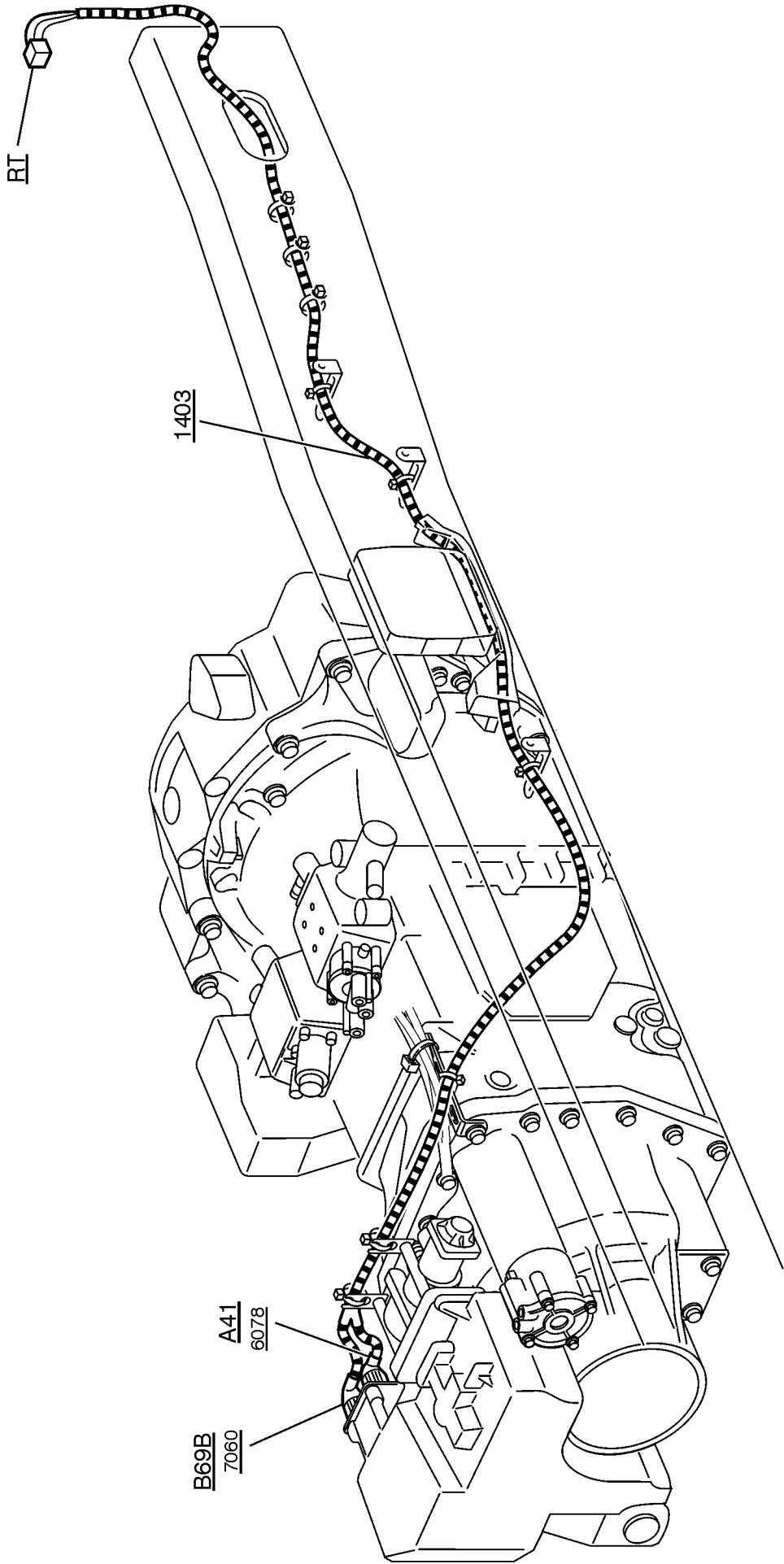
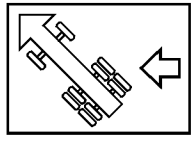




1401



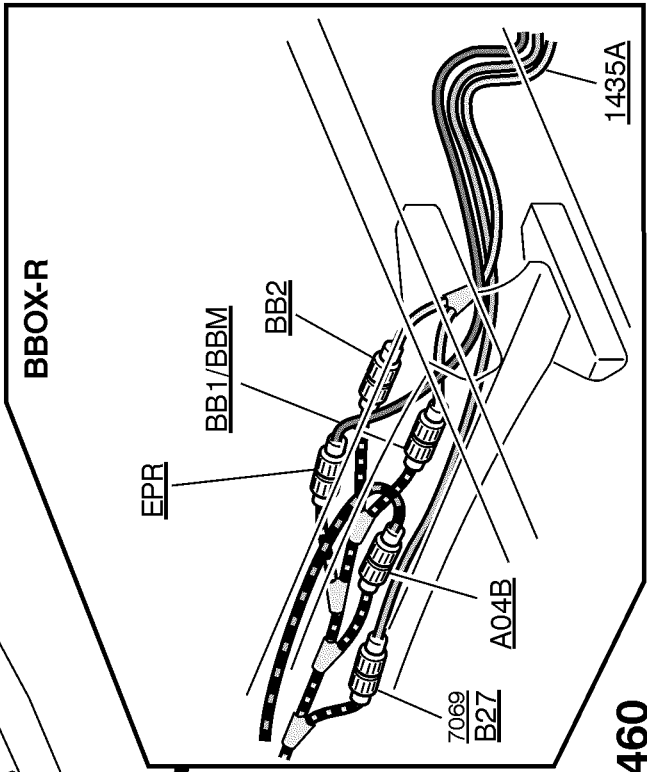
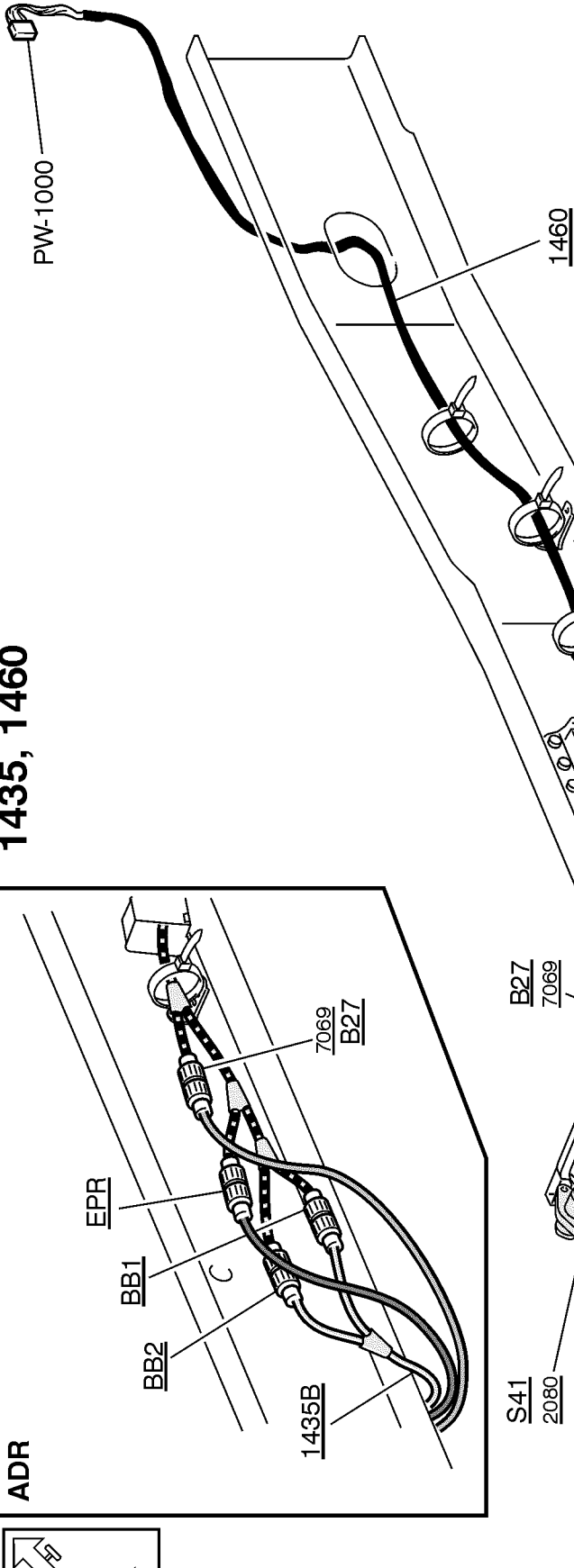
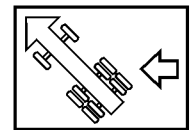
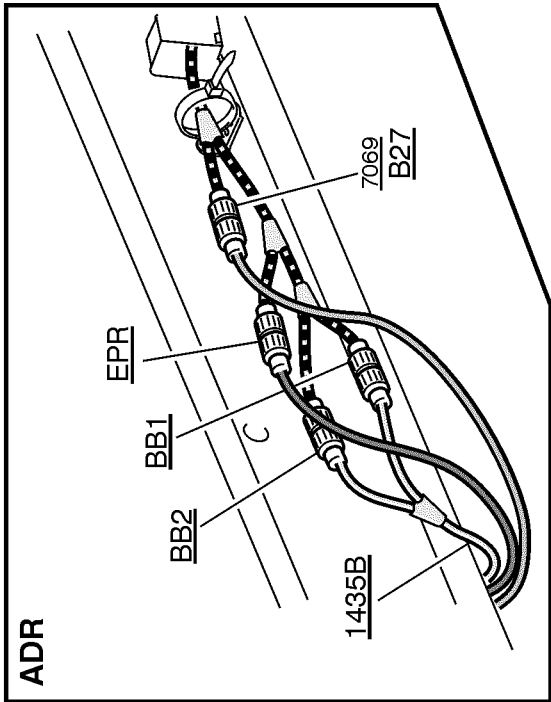
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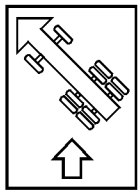
1403

1403

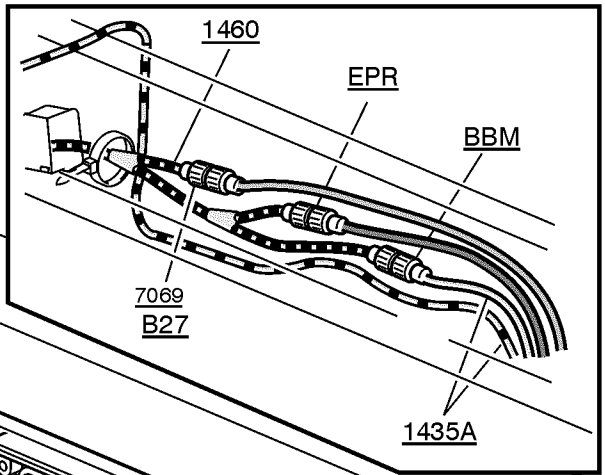
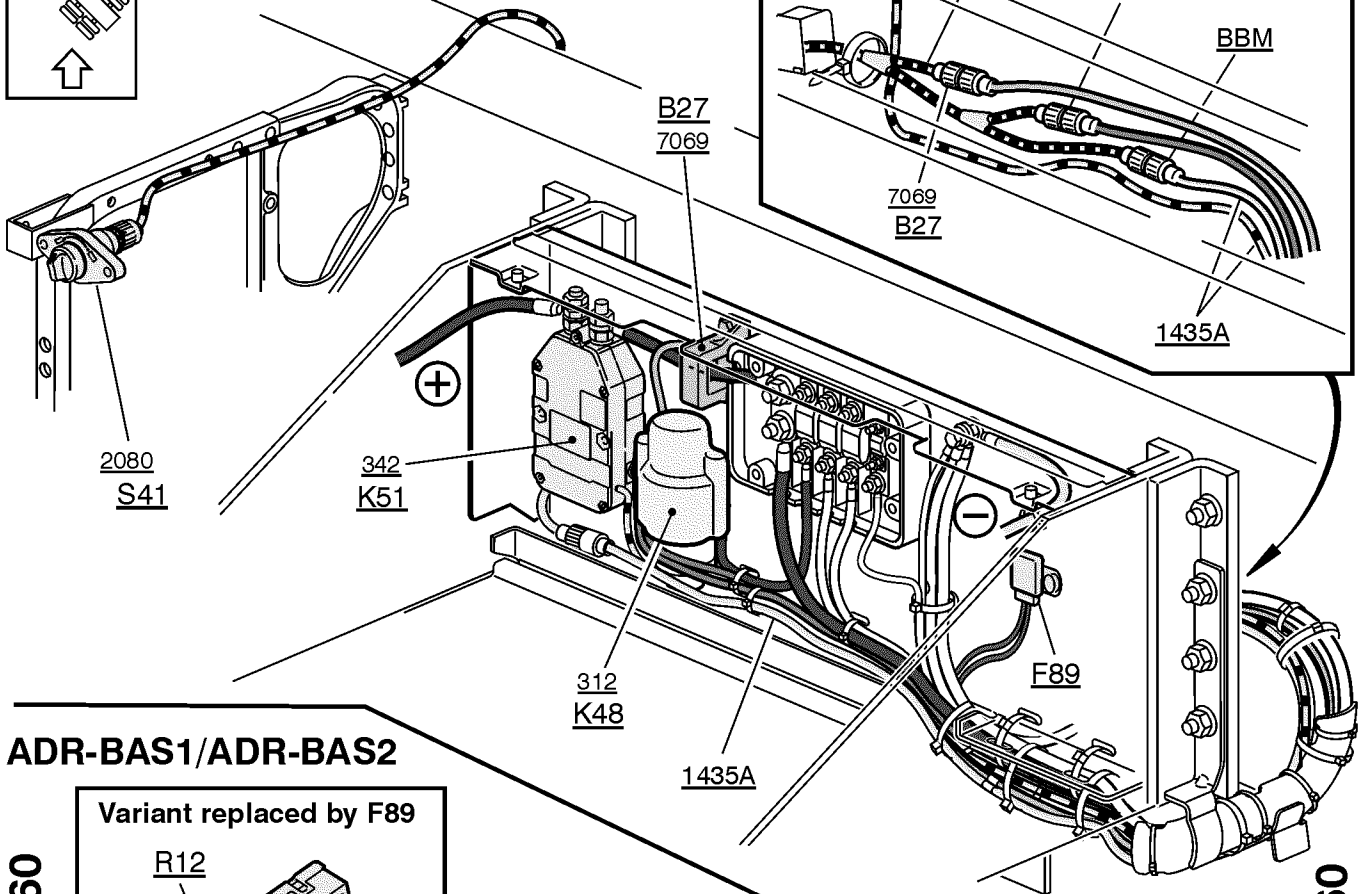
1435, 1460



1435, 1460

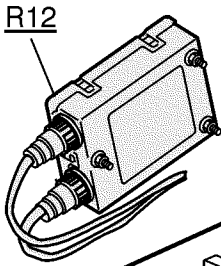


**UADR
MainSwitch**



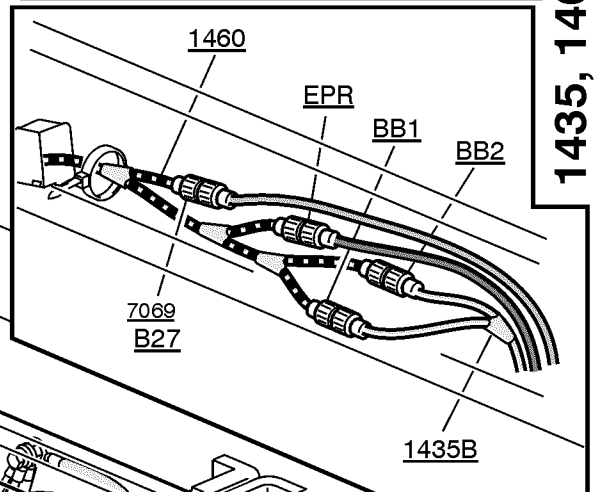
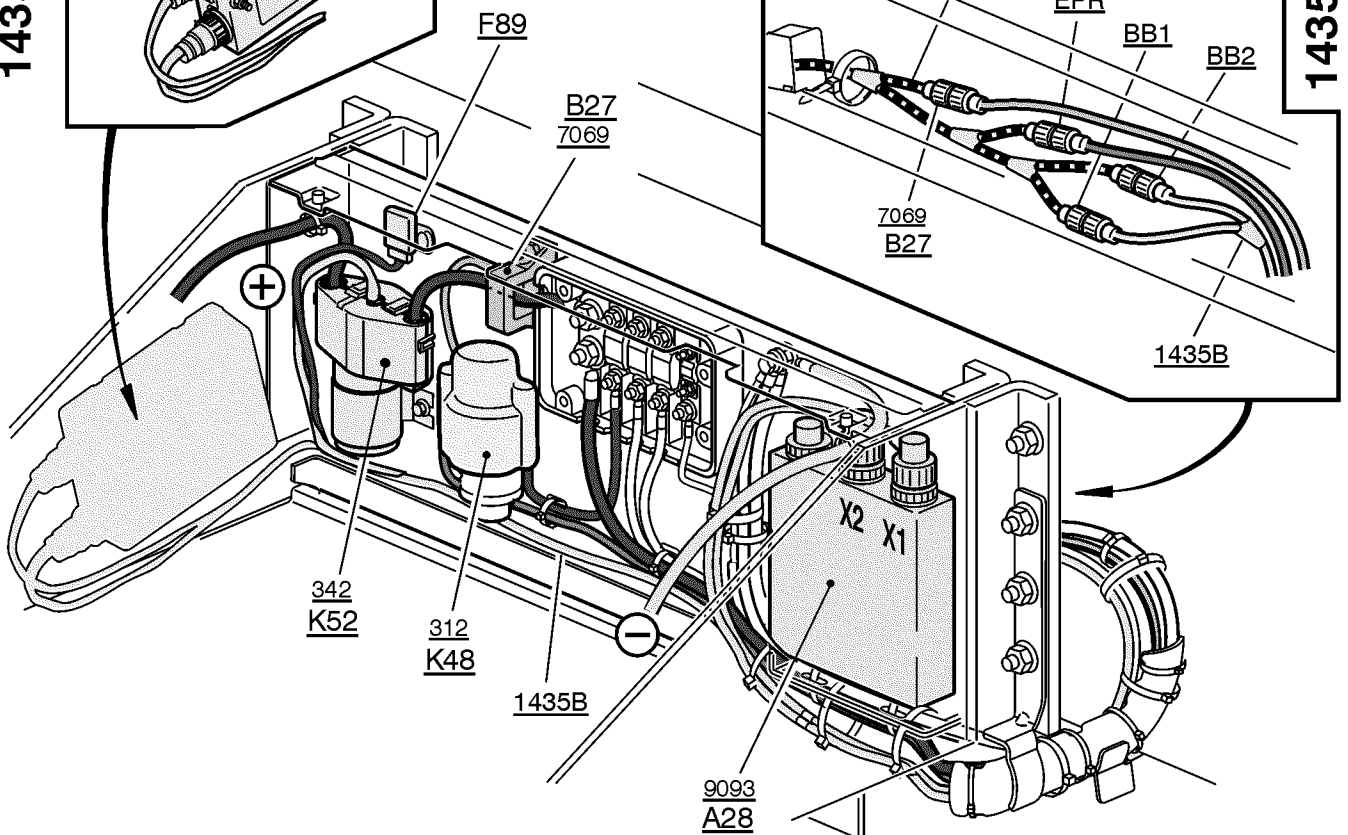
ADR-BAS1/ADR-BAS2

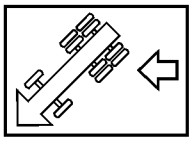
Variant replaced by F89



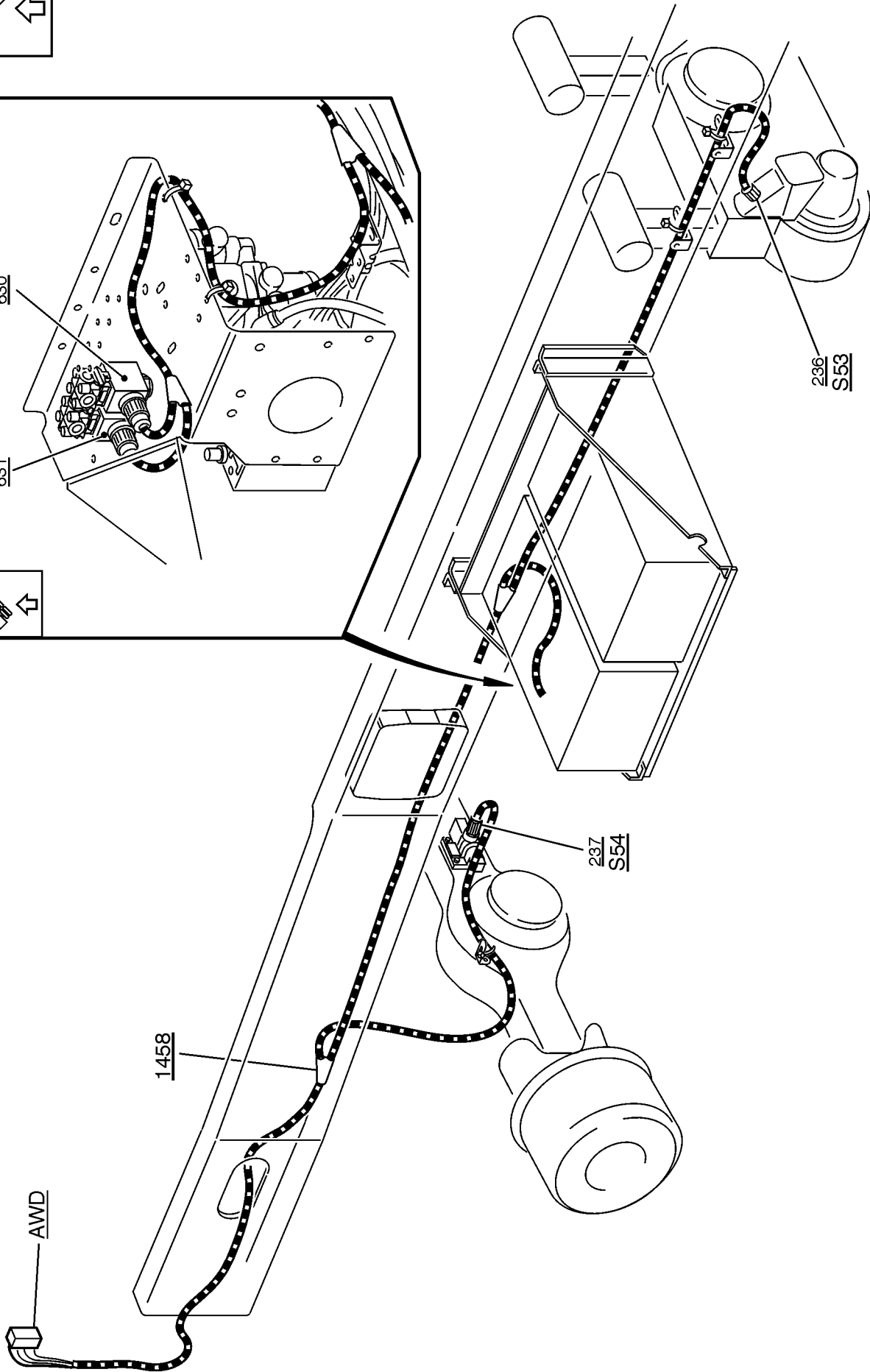
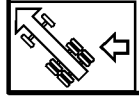
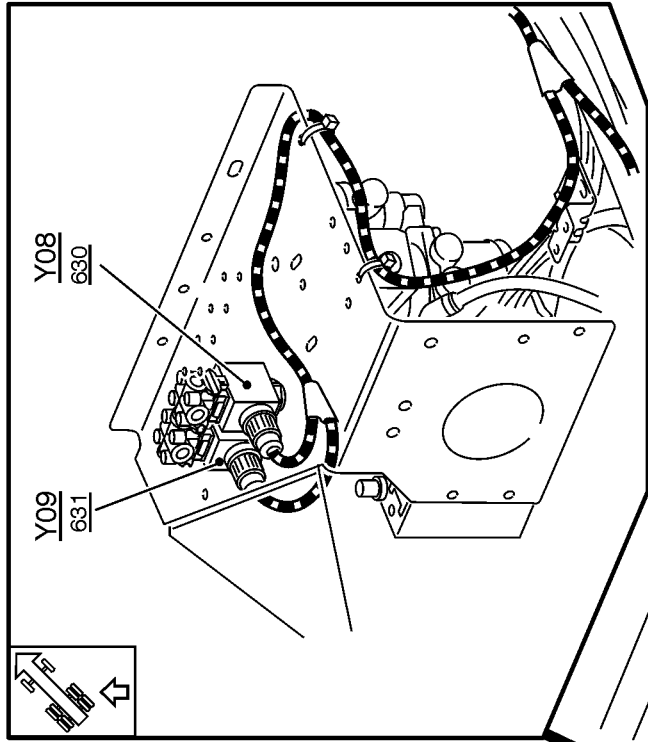
1435, 1460

1435, 1460

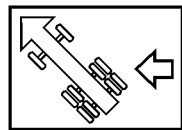




1458

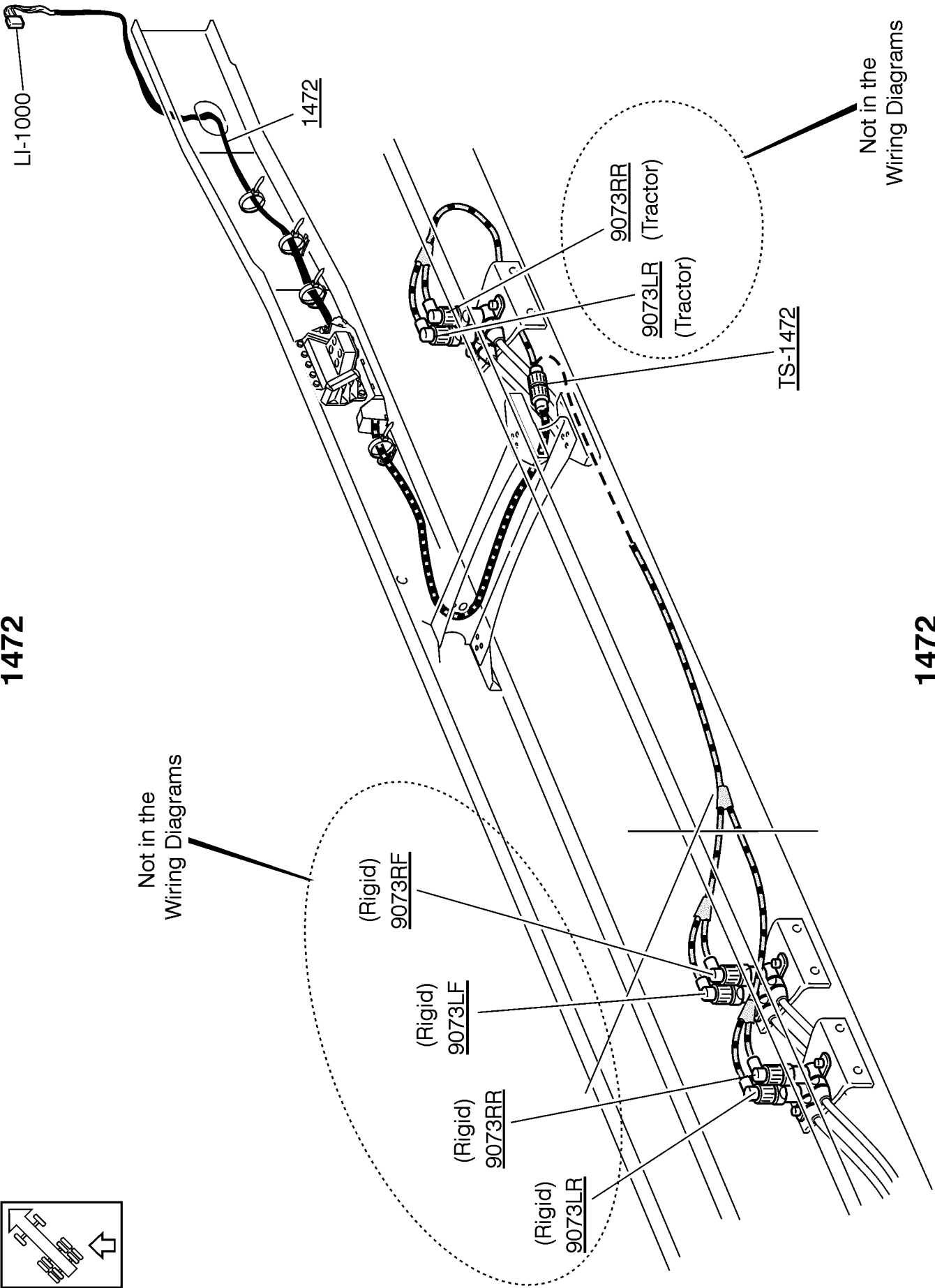


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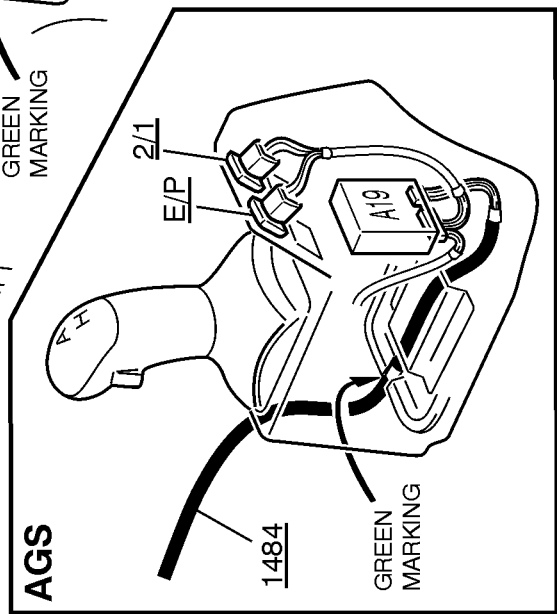
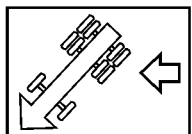
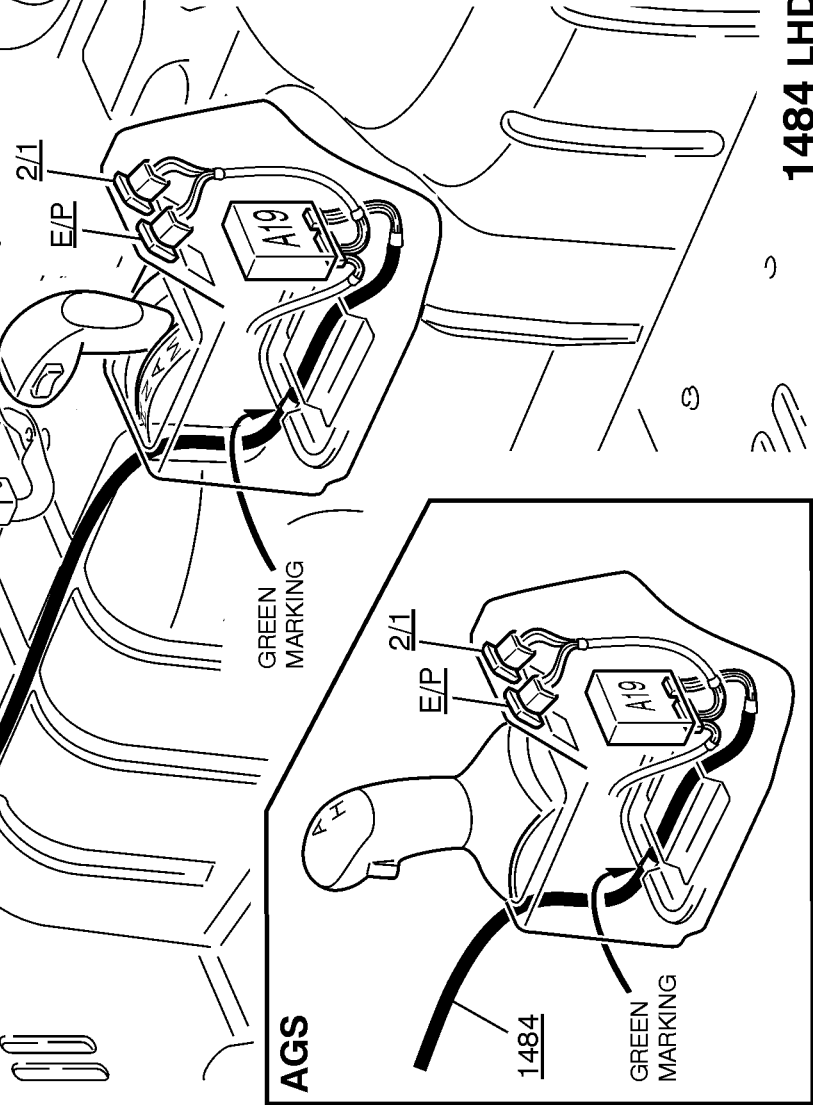
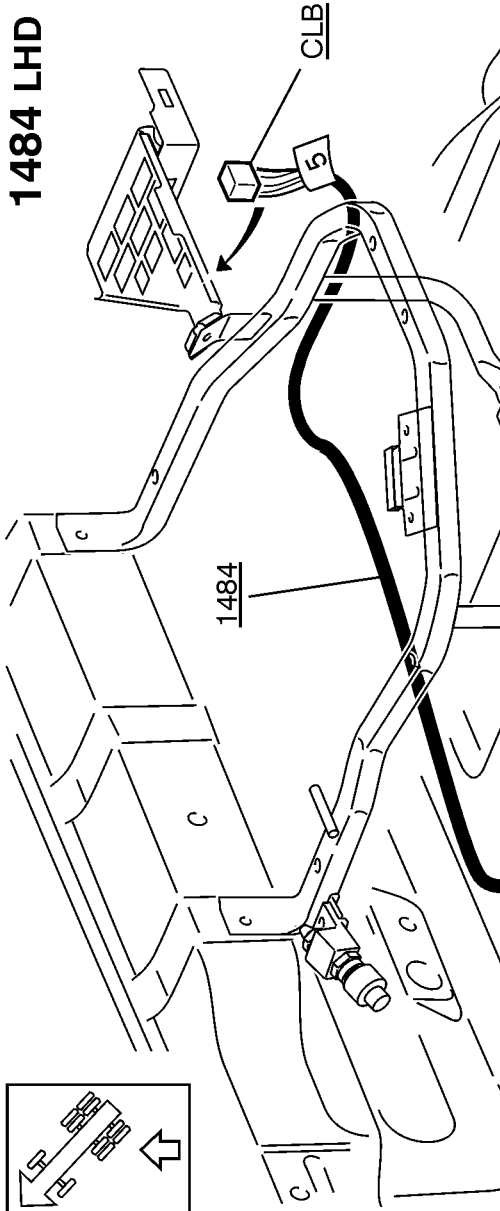
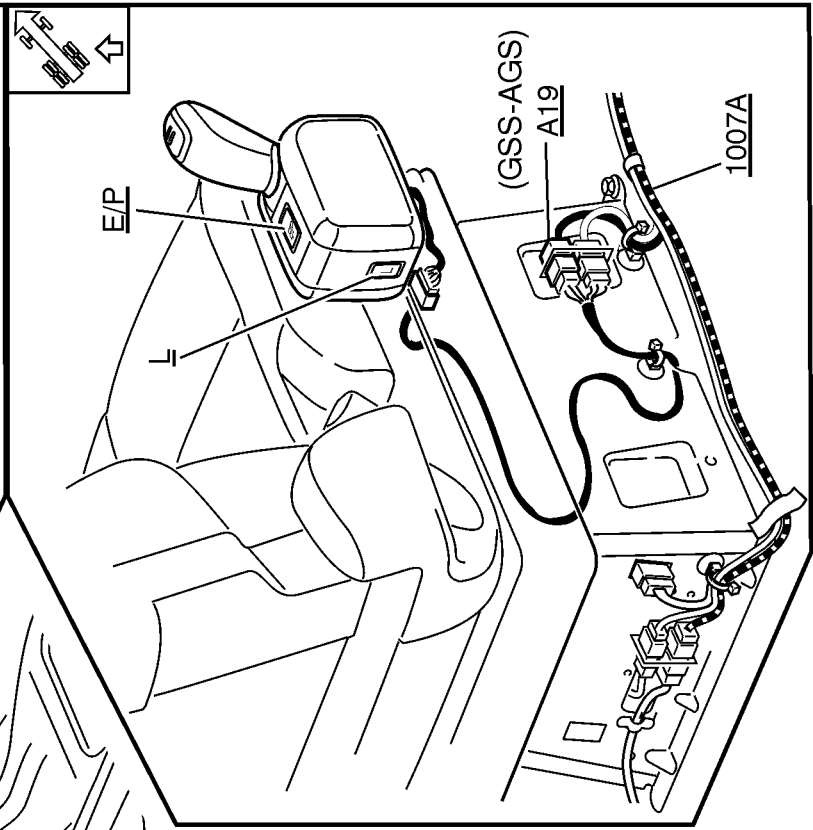
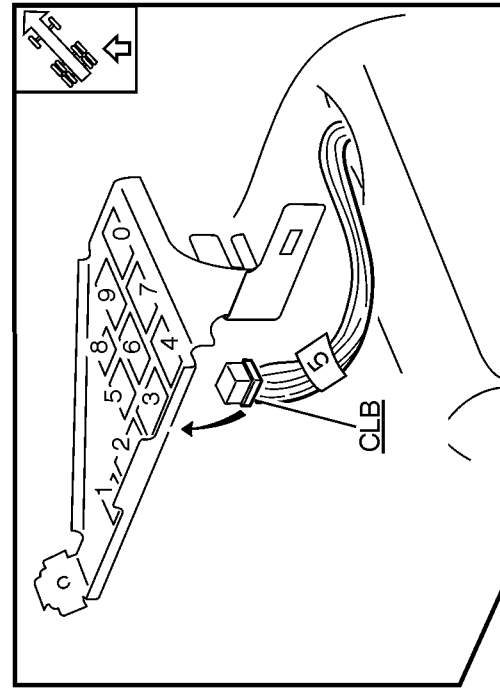
1472

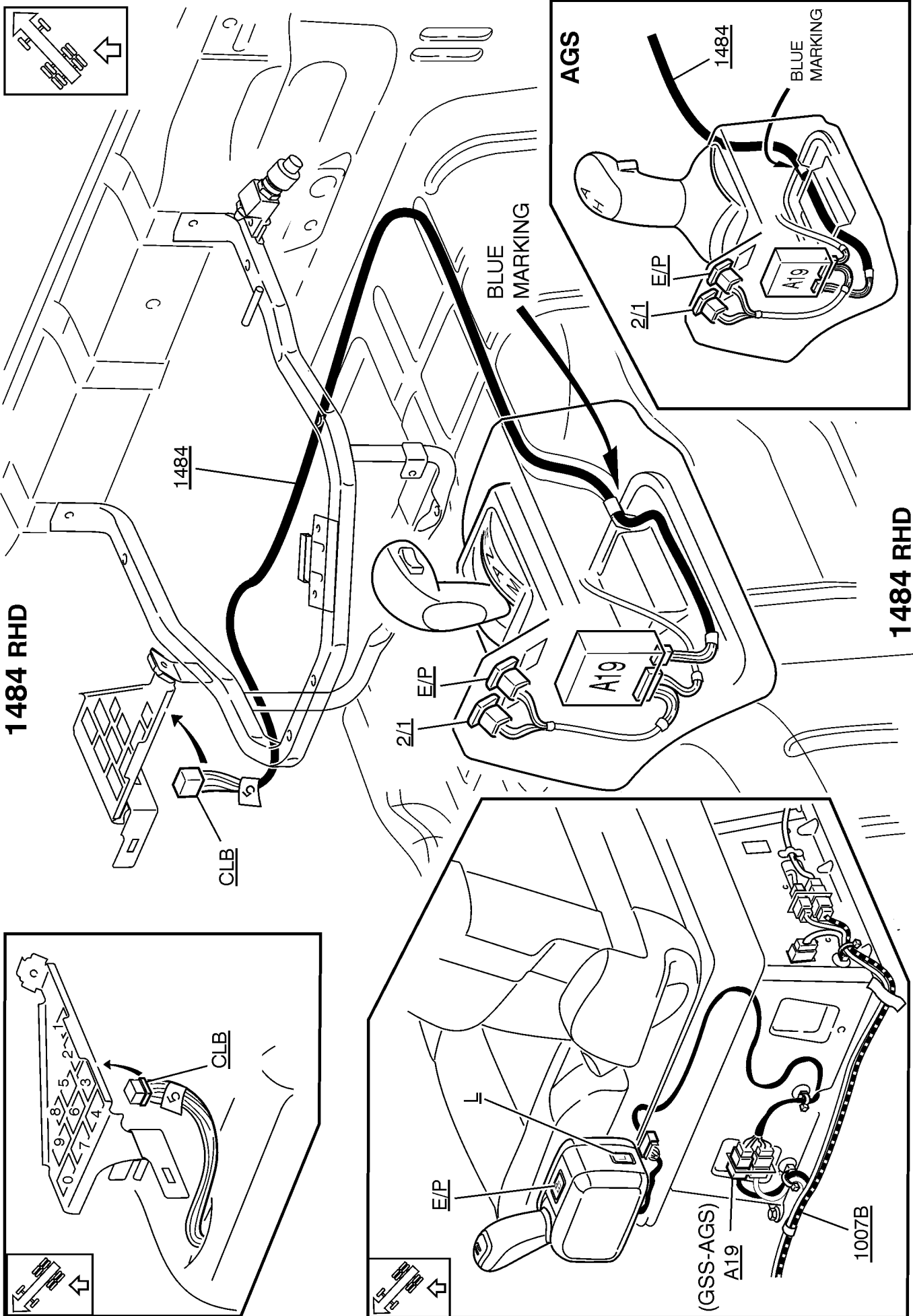
Not in the
Wiring Diagrams



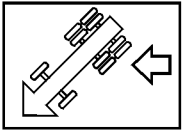
Not in the
Wiring Diagrams

1472

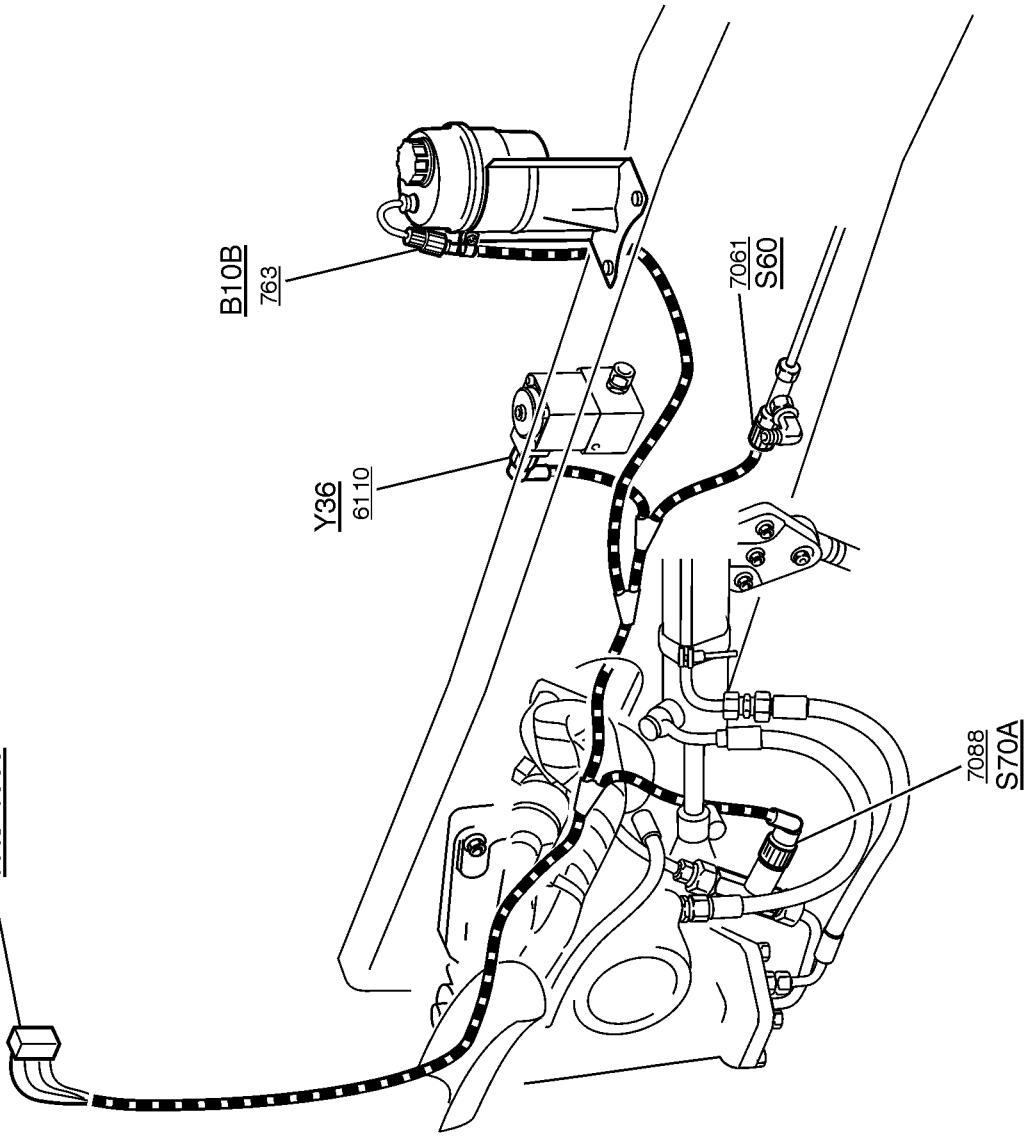




1493 LHD



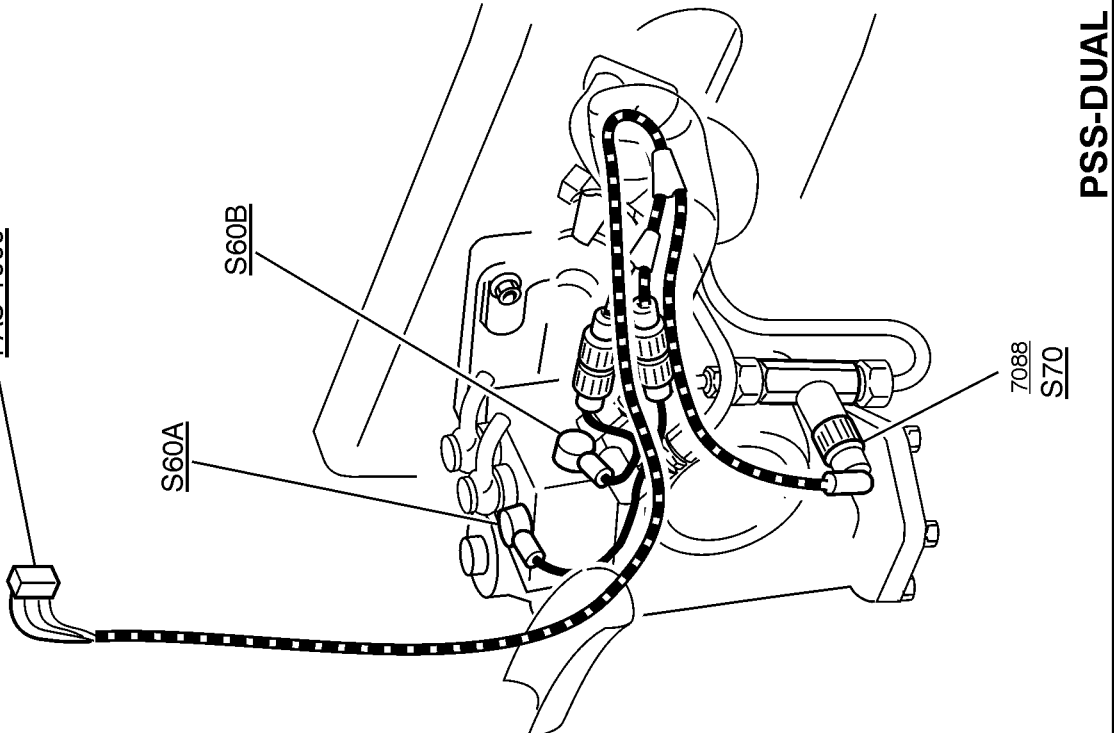
PAS-1000



1493 LHD

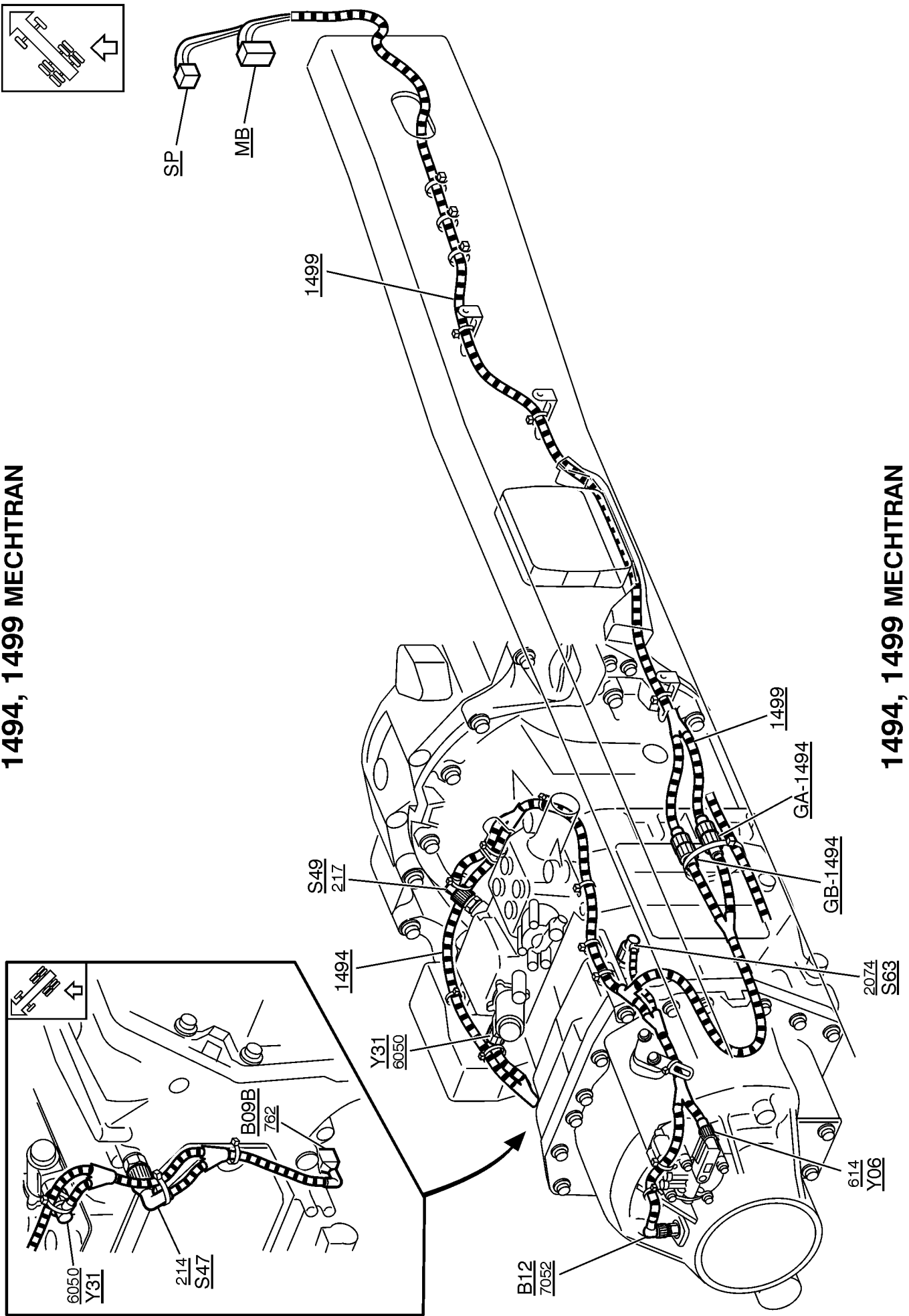
PSS-DUAL

PAS-1000



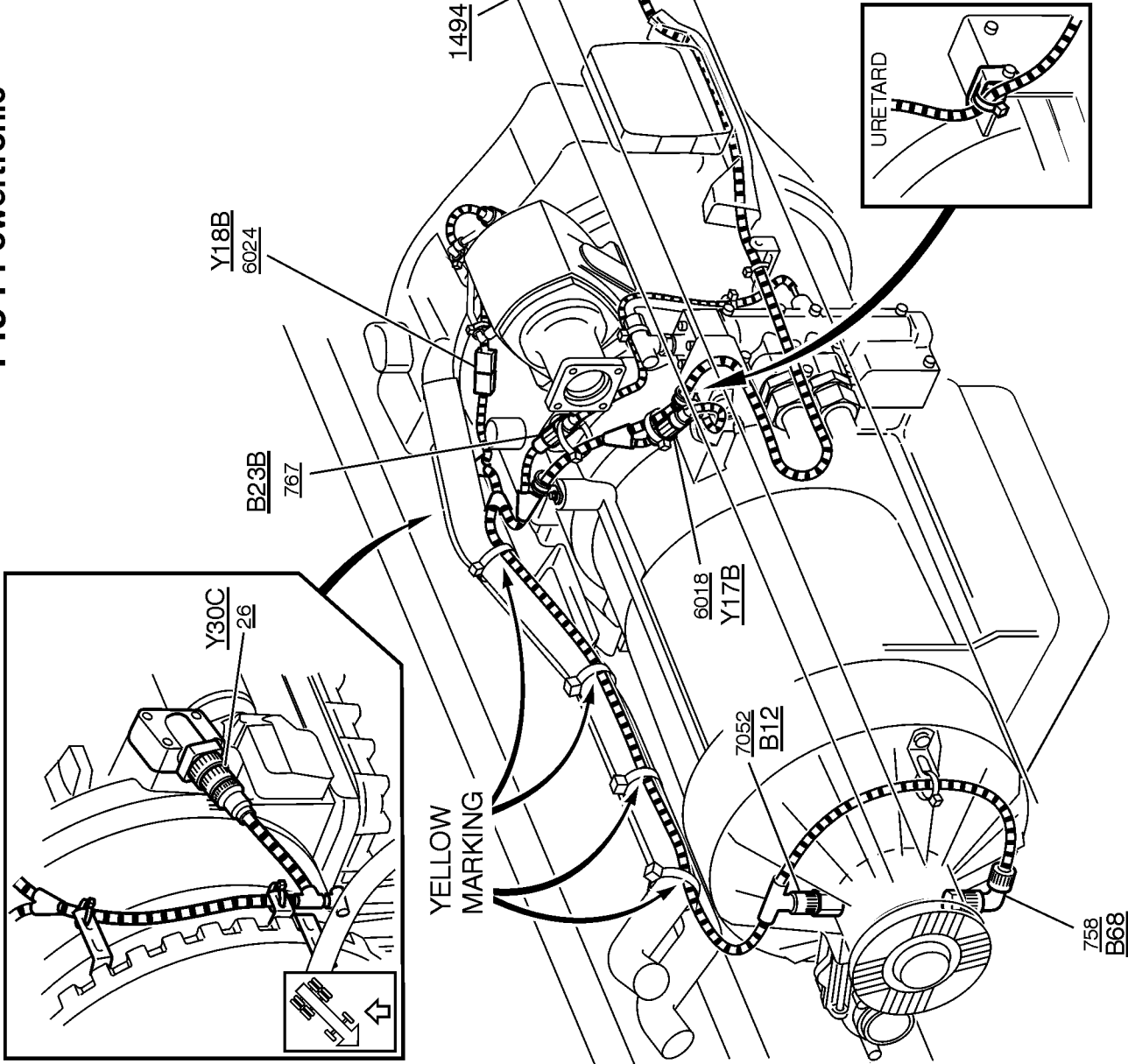
PSS-DUAL

1494, 1499 MECHTRAN



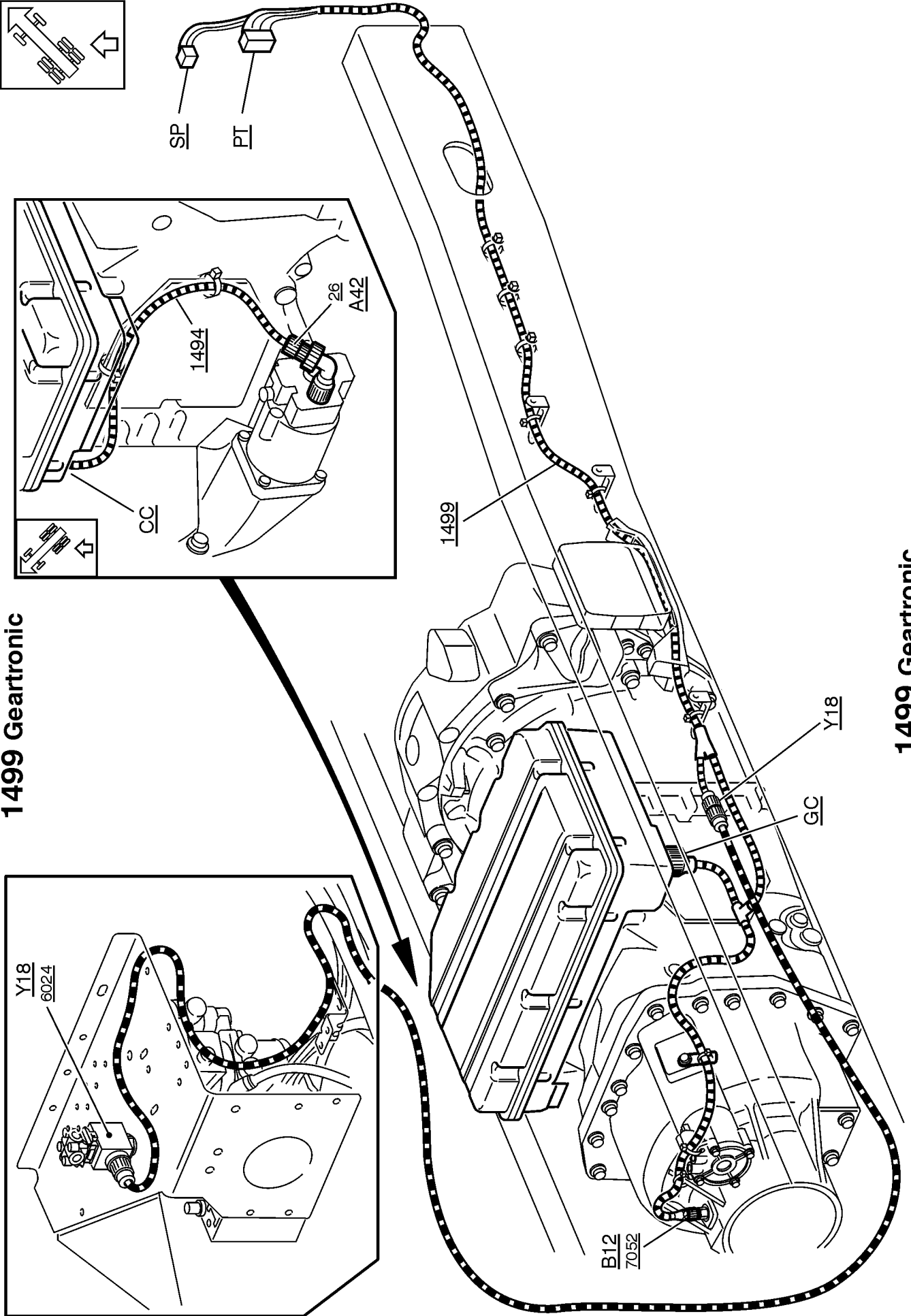
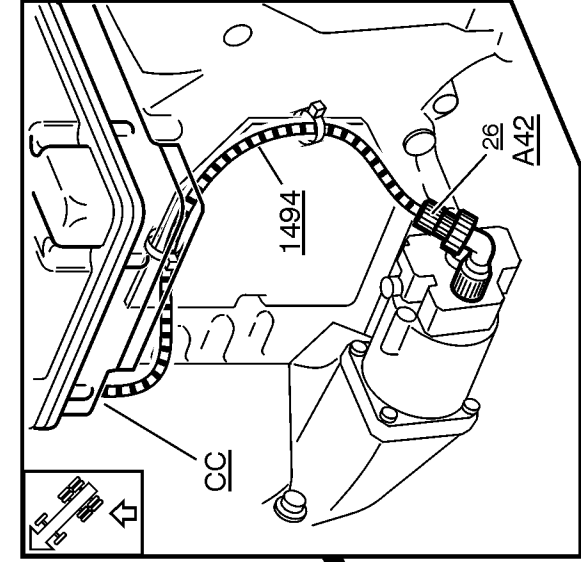
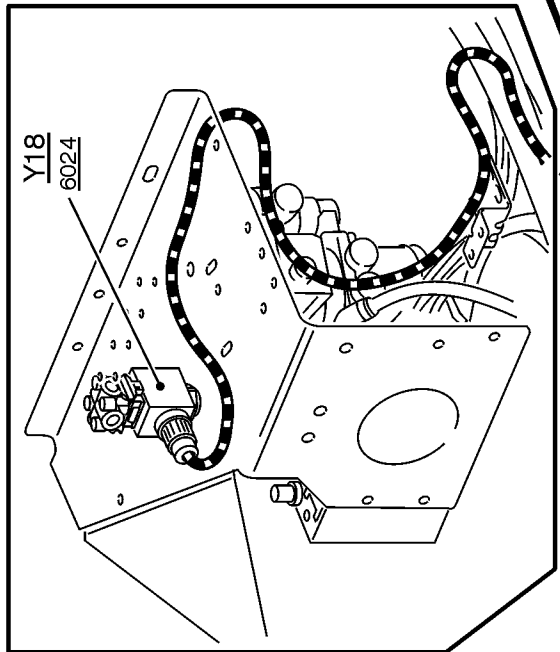
1494, 1499 MECHTRAN

1494 Powertronic

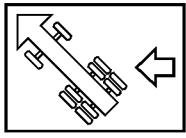


1494 Powertronic

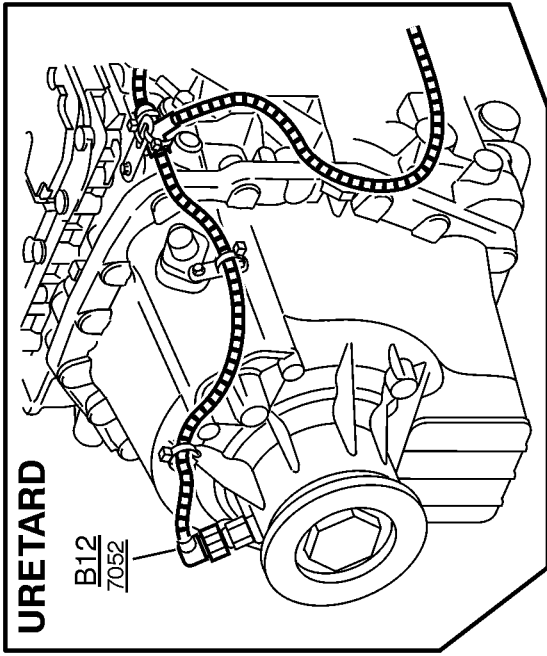
1499 Geartronic



1499 Geartronic



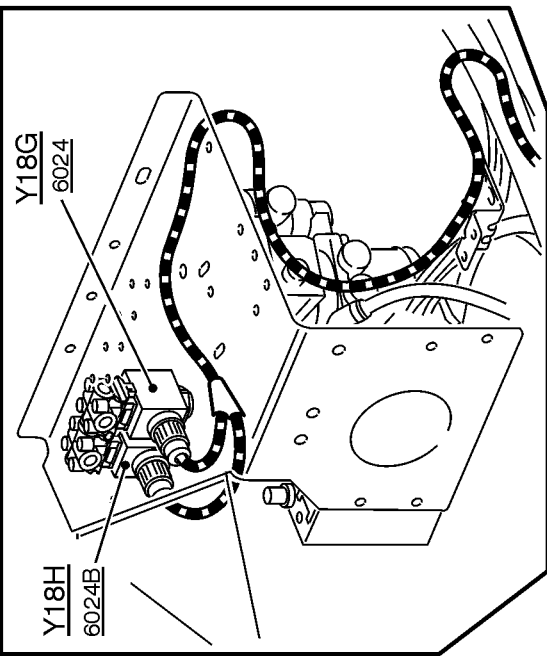
SP
MB



URETARD

B12
7052

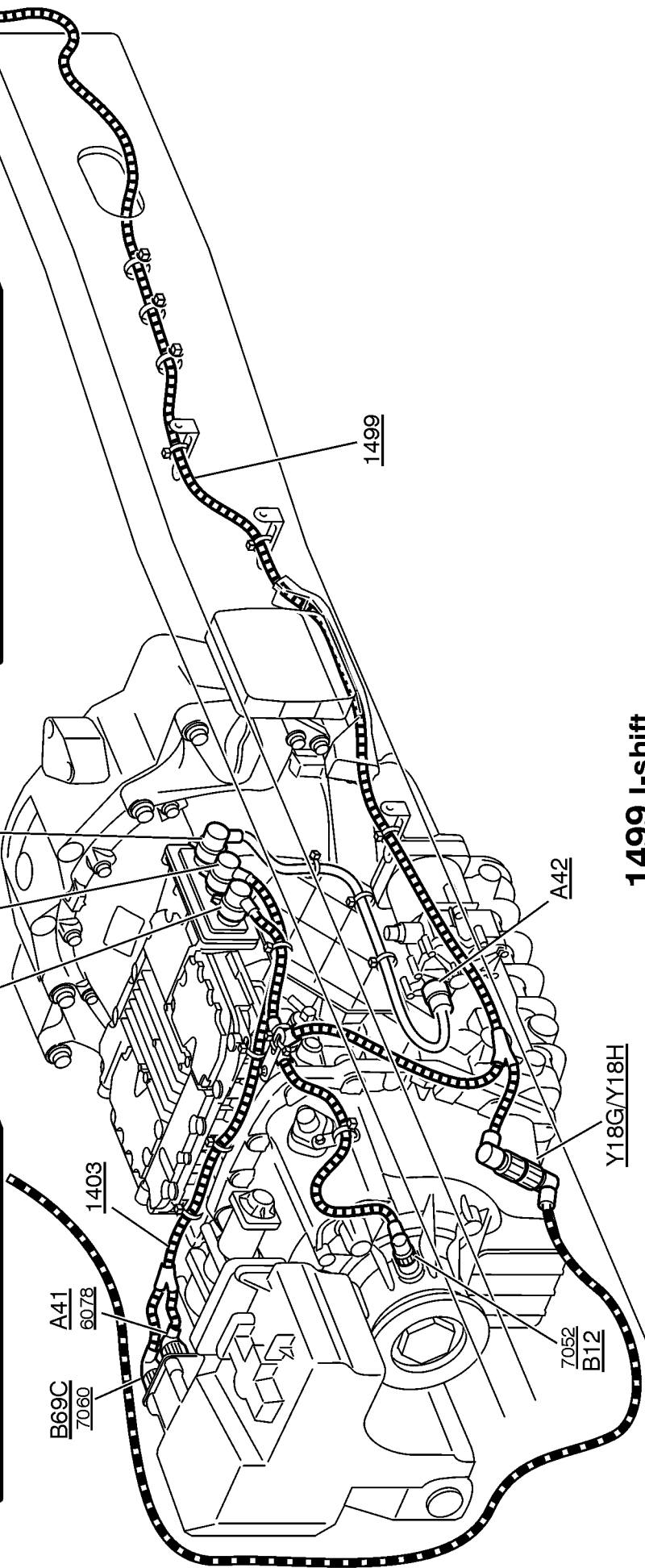
1499 I-shift



Y18G
6024

Y18H
6024B

AA
AB
AC



B69C
7060

A41
6078

1403

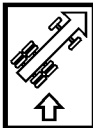
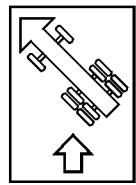
1499

7052
B12

Y18G/Y18H

A42

1499 I-shift



TA/TB

1501

YELLOW MARKING

H02

E13L

FL

YELLOW MARKING

S26

1502

1501, 1502

H01

1501, 1502

H06

E26L

M11

(Main)
E01

(Parking)
E08

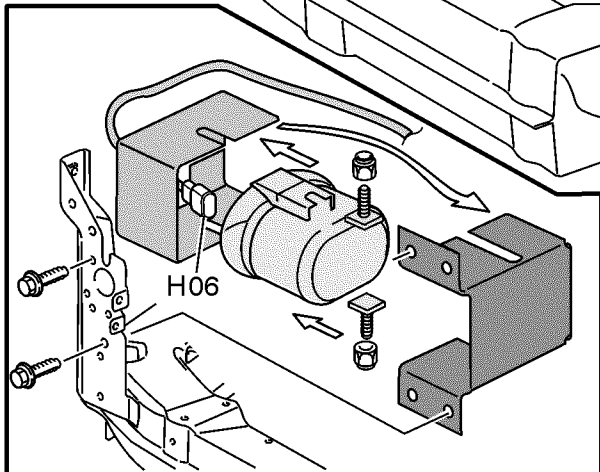
(Dipped)
E02

(Adjust)
M08

(Fog)
E07

E13F
(Direction)

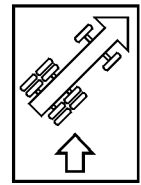
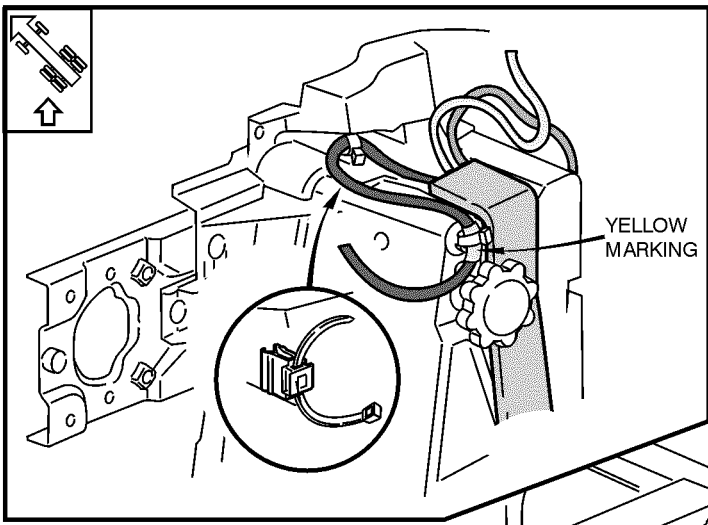
E03
(Spot)



H06

1501, 1503

1501, 1503



TATB

1501

FR

E13R

YELLOW MARKING

1503

S26

M03

H06

E26R

M11

(Main)
E01

(Parking)
E08

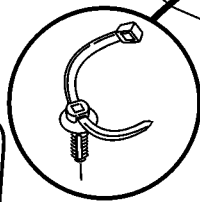
(Dipped)
E02

(Adjust)
M08

(Fog)
E07

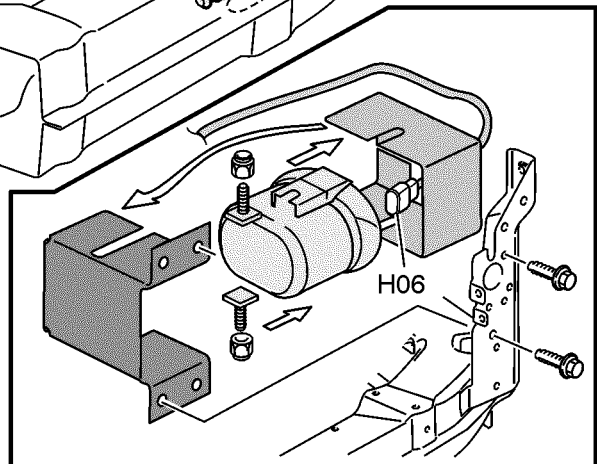
M02

B22

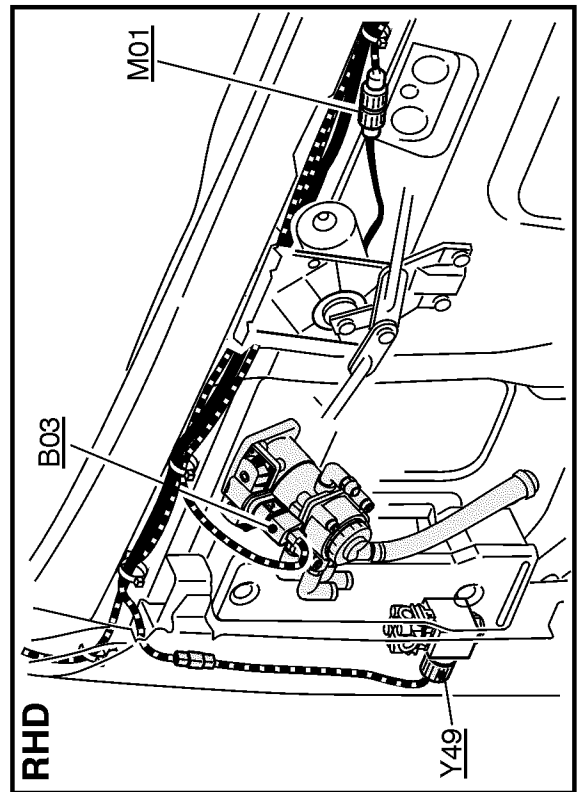
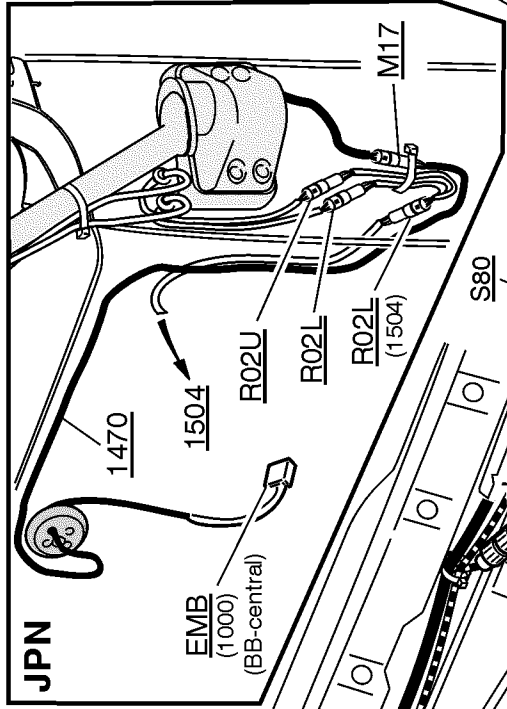
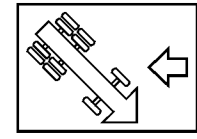
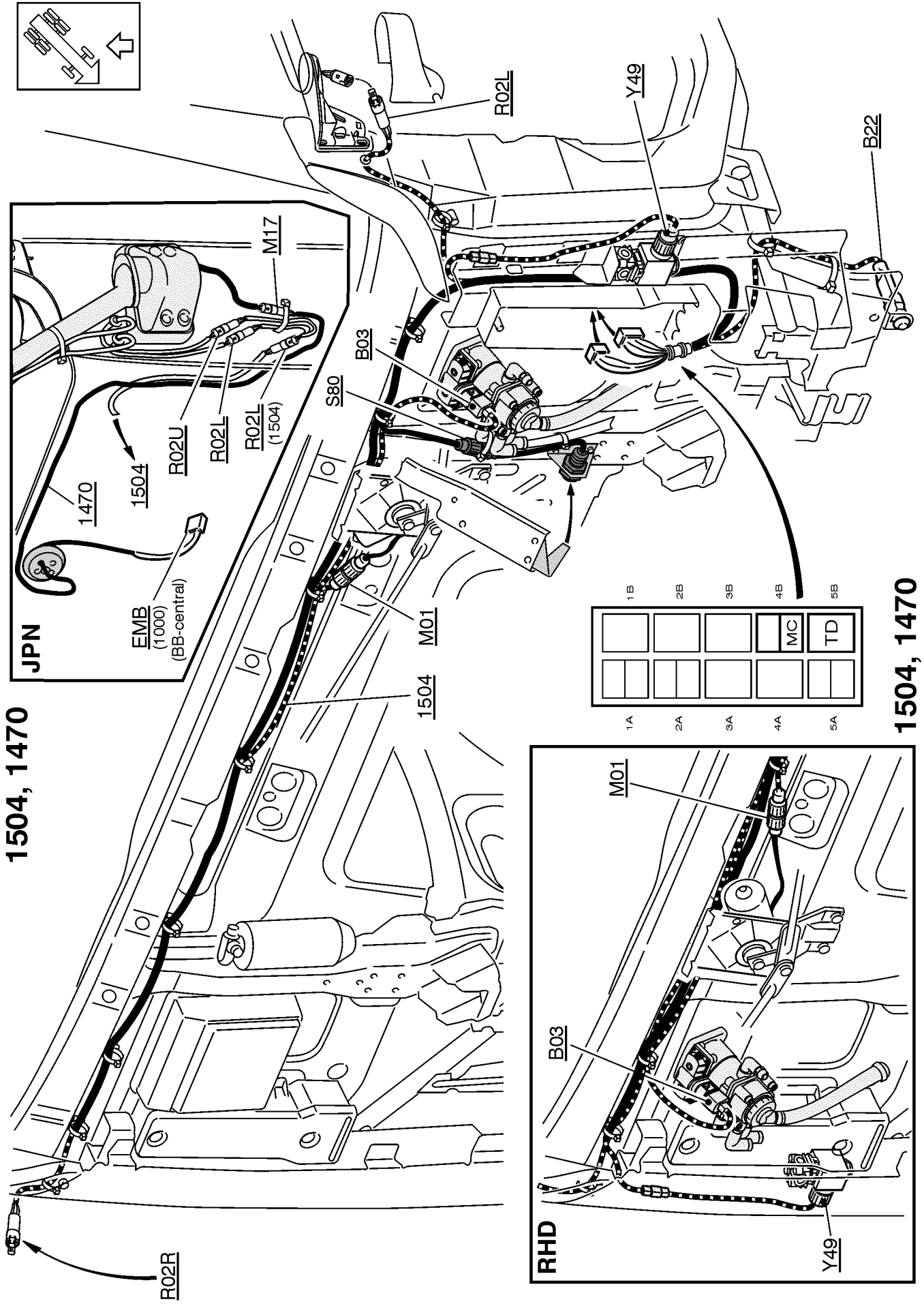


(Direction)
E13F

(Spot)
E03



1504, 1470

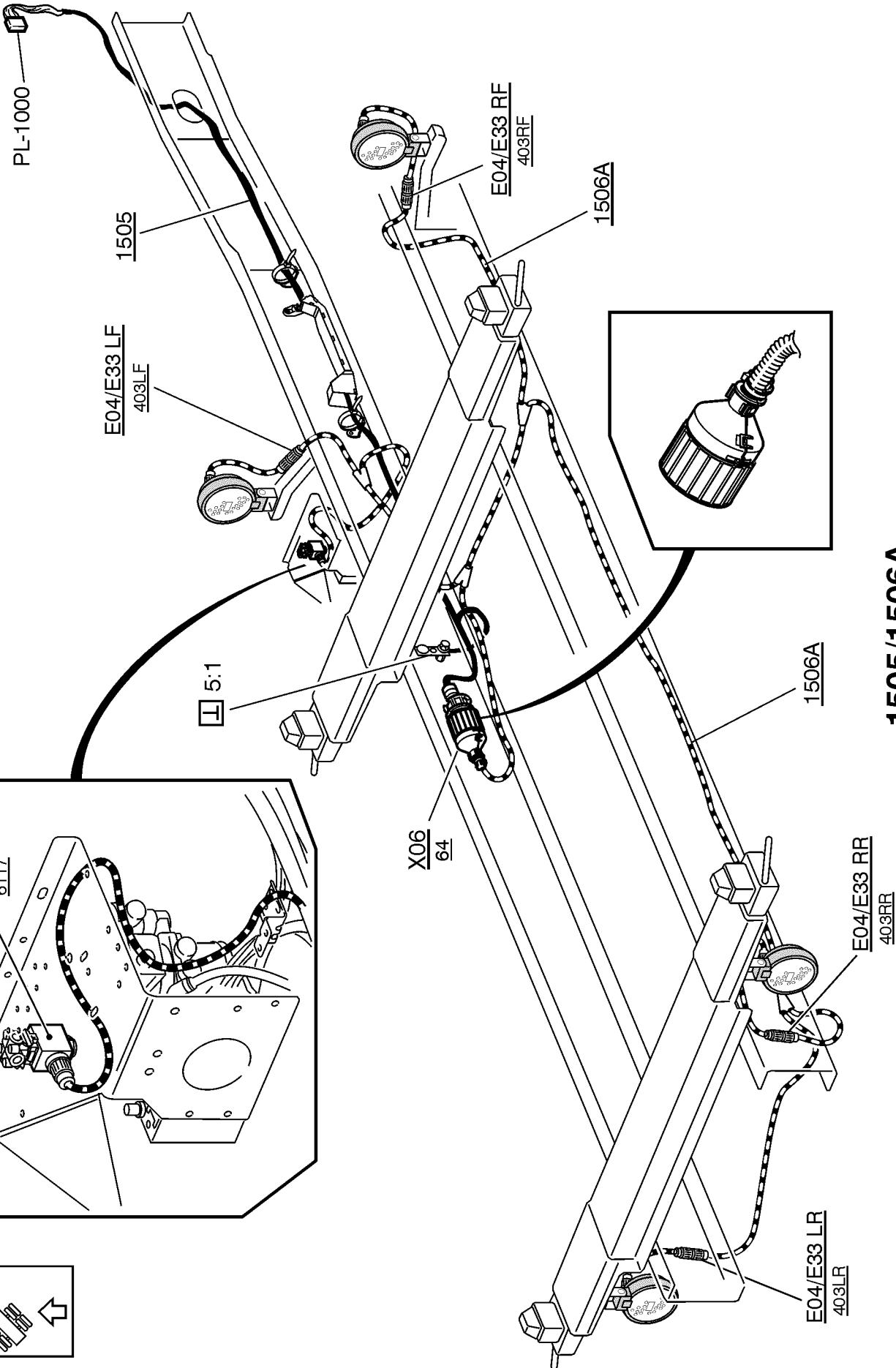
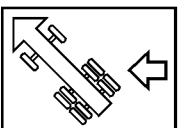
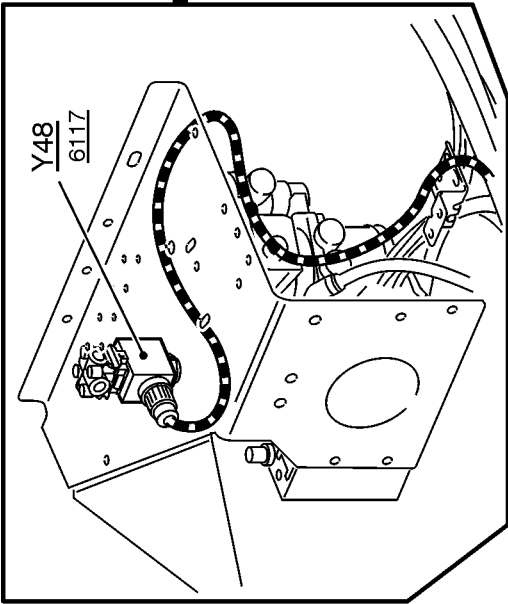


1A	2A	3A	4A	5A
1B	2B	3B	4B	5B
			MC	TD

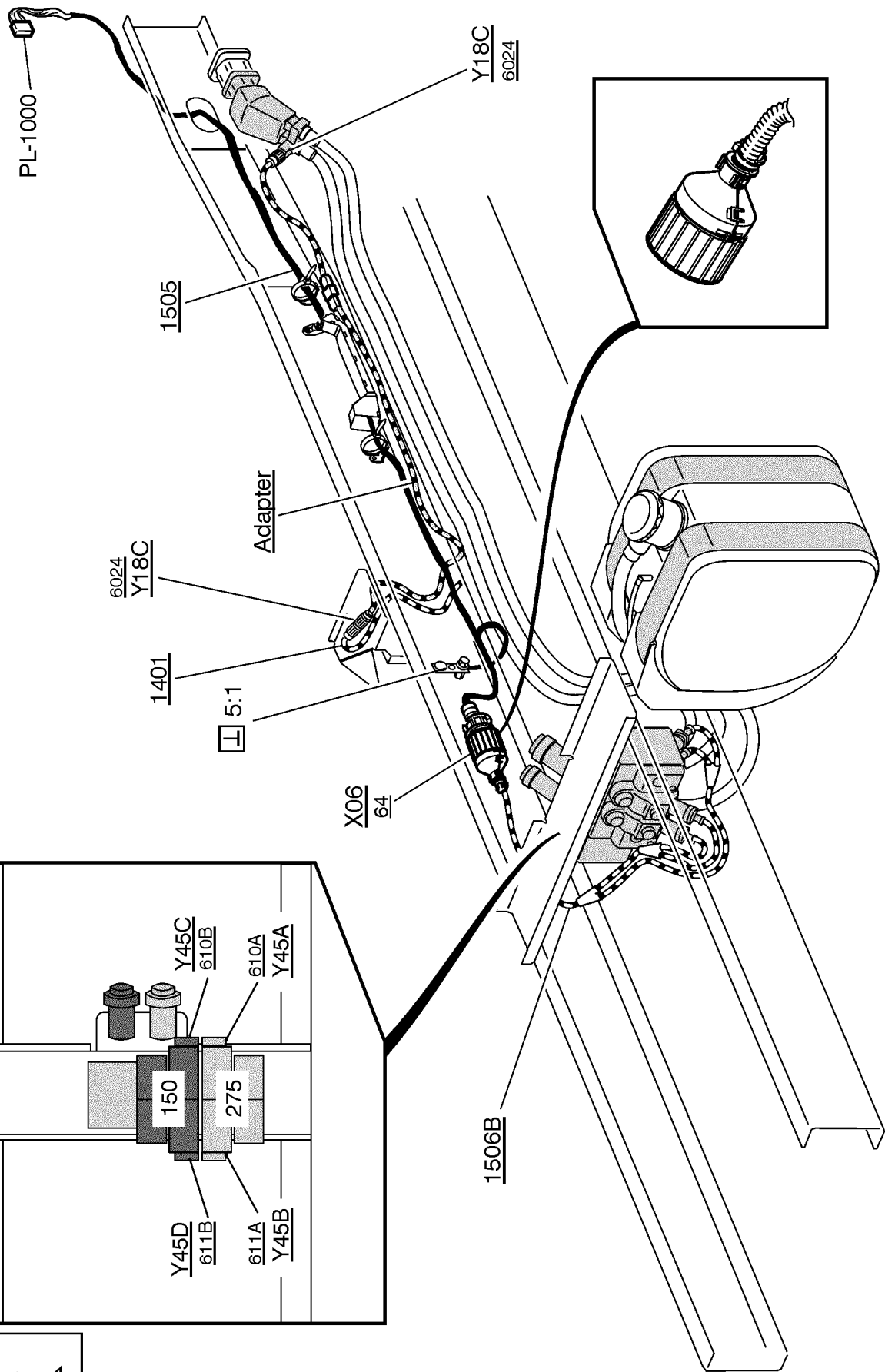
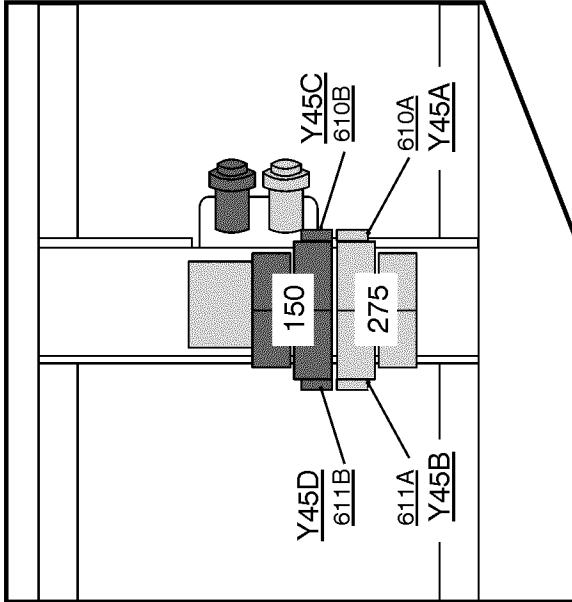
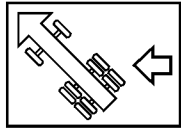
1504, 1470

1505/1506A

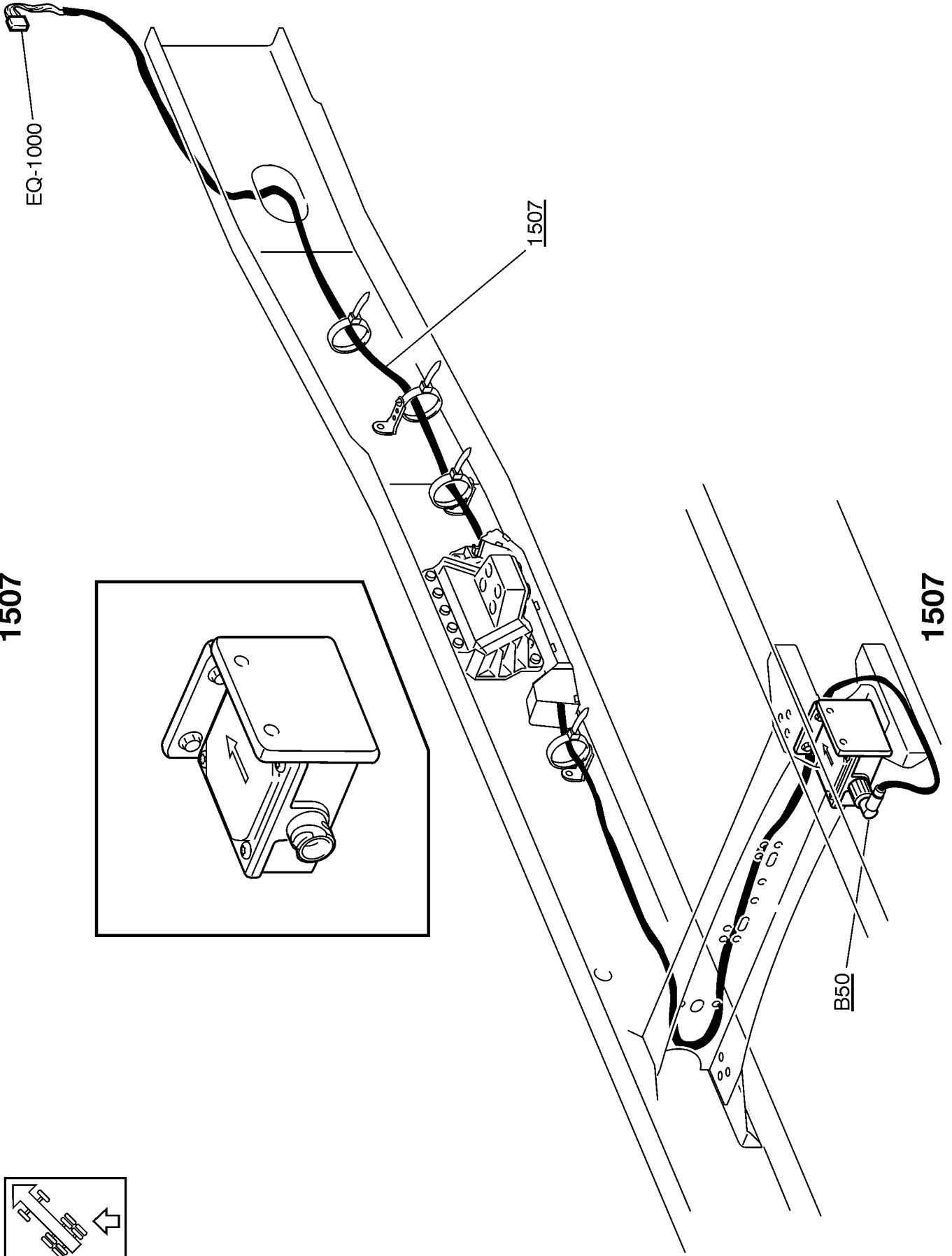
1505/1506A



1505/1506B



1505/1506B

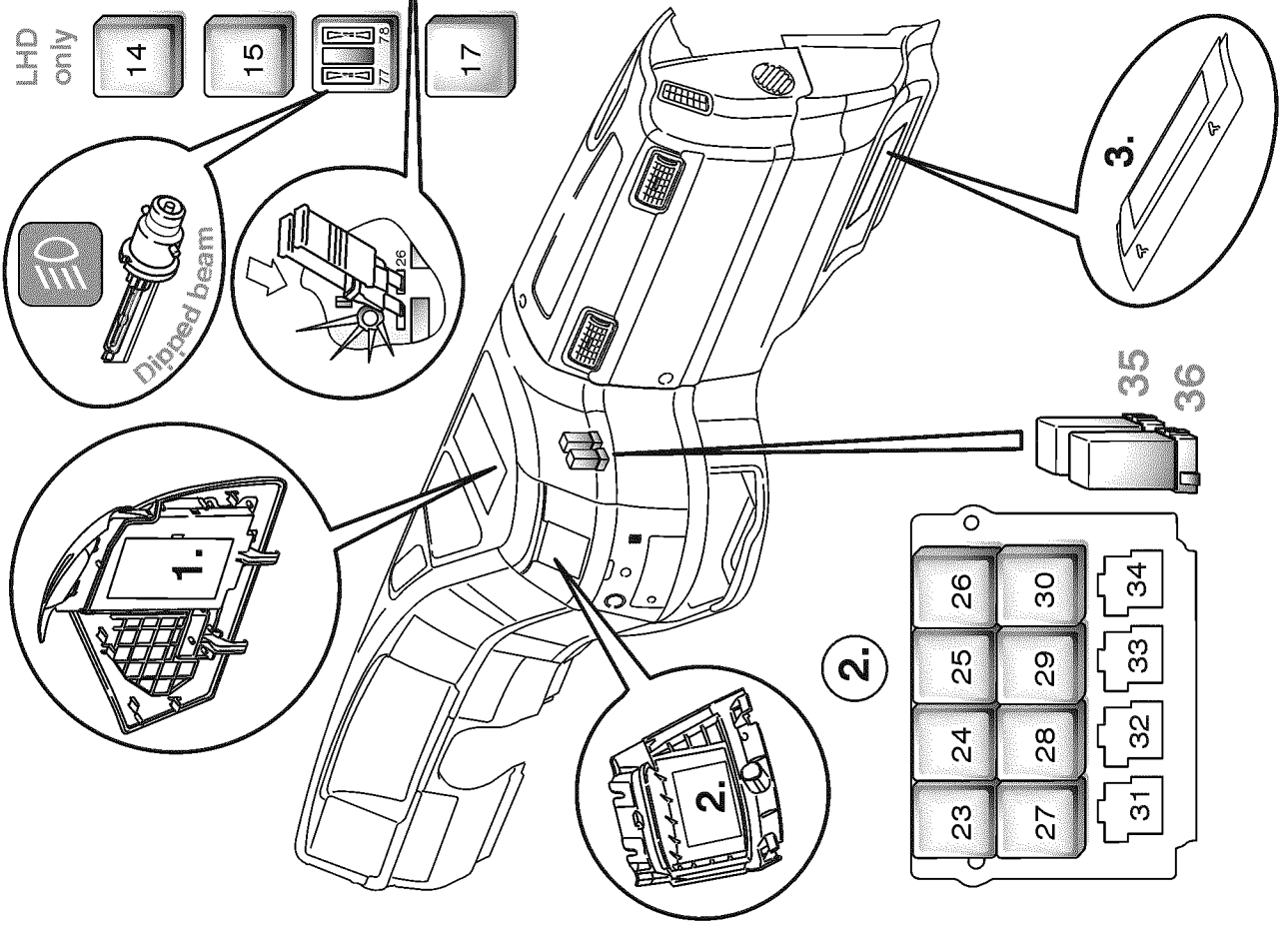
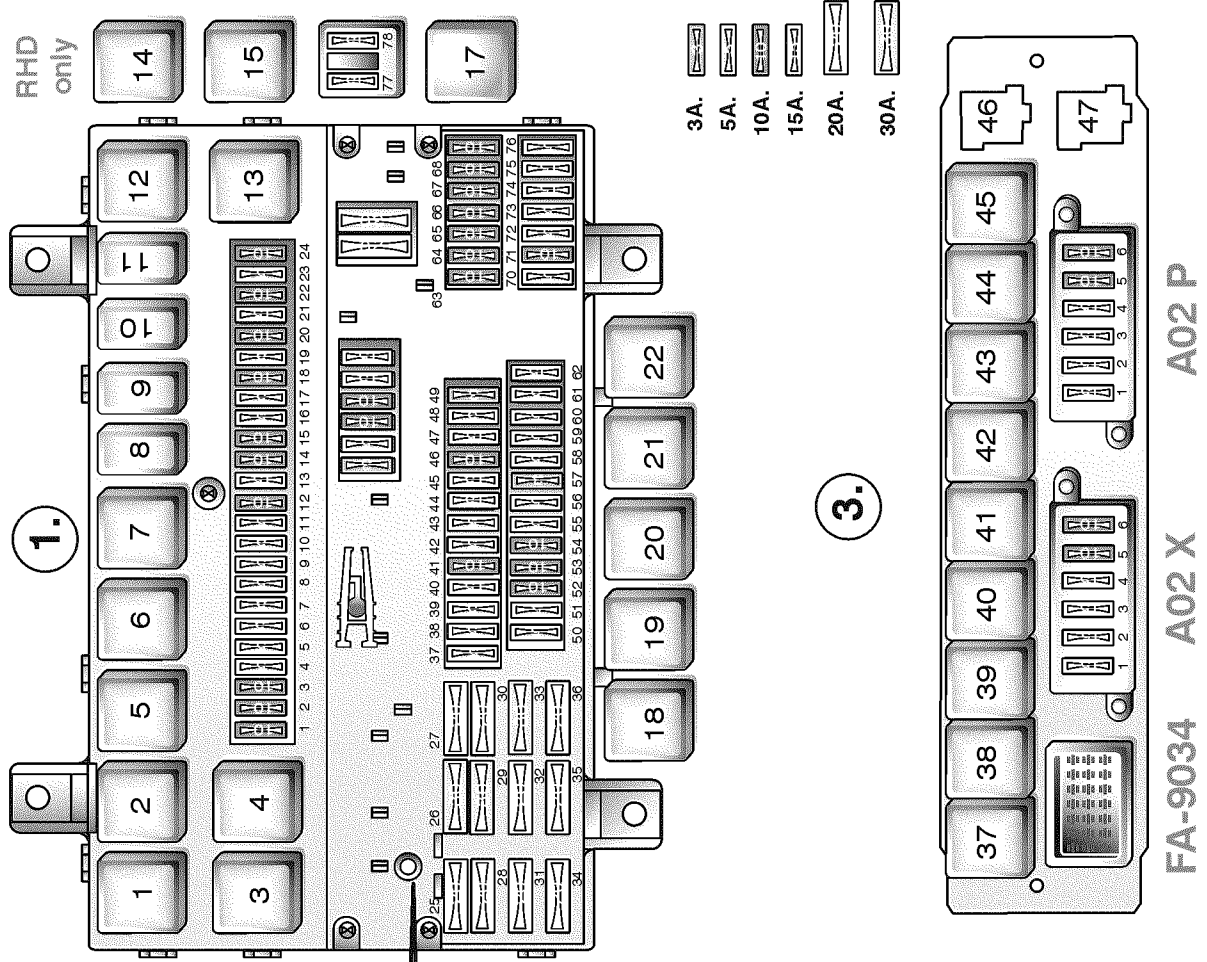


Fuses

F2	Luggage compartment illumination	(IH:4 A)	F34	Free	(ME:1 A)
F3	Loadlight, 5:th wheel lamp ..	(KE:0 A)	F35	El. adjustable seat	(IA:2 A)
F4	Key switch, radiopos.	(AA:3 C)	F36	Free	(ME:4 B)
F5	Instrumentation, (kl.30)	(BI:3 A)	F37	Dynafleet	(AA:3 B)
F6	Free	(BA:1 B)	F38	Instep lamps	(AA:3 B)
F7	Vehicle ECU, immobiliser	(BA:1 B)	F39	El. adjustable rearview mirrors ...	(AA:3 B)
F8	Instrumentation, (kl.DR)	(BI:0 A)	F40	Engine ECU	(CM:1 A)
F9	Range-, area-inhibitors	(BA:0 A)	F41	Engine solenoid valves, el. fuel pump	(CM:3 A)
F10	Free	(HY:0 A)	F42	Engine preheating relay, cooling fan clutch	(CM:2 A)
F11	Gearselector ECU	(DB:1 B/ DM:0 B)	F43	BBM (body builder module)	(BA:1 A)
F12	Transmission ECU	(DB:1 B/ DM:1 B)	F44	Voltage converter for radio	(IR:0 A)
F13	Windscreen wiper	(GM:3 A)	F45	Supplementary voltage converter	(IR:1 A)
F14	Cigarette lighter, centre section storage lamp	(IQ:2 A)	F46	Beacon warning light	(KM:0 A)
F15	Water separator, heater and water drain	(CU:0 A)	F47	Free	(ME:0 A)
F16	Differential lock, power take off	(DQ:0 A/ DU:1 A)	F48	ABS/EBS, EBS switches	(EE:0 A/ EI:0 A/ EM:0 A)
F17	LCM control	(GA:0 A)	F49	Air suspension/A-ride/tag axle ...	(FA:3 A/ FK:1 A)
F19	Climate unit	(HG:0 A)	F50	Telephone	(IX:0 A)
F20	Central door lock	(IM:1 A)	F52	Control circuit engine preheating, radio position relay	(AA:1 A)
F21	Fan, climate unit	(HY:0 A)	F53	Light sign	(KI:1 A)
F22	Interior lamps	(IH:1 A)	F54	Dynafleet	(BU:0 A)
F23	Air suspension	(FA:4 A)	F55	SRS airbag, safety belt tensioner	(IS:0 A)
F24	El. heated airdryer, parking heater ADR/TRS	(FQ:0 A)	F57	Gear selector ECU	(DB:0 A/ DM:1 B)
F25	Supply ABS/EBS trailer	(EC:2 A/ CP:4 A)	F58	ADR/TRS, D+ short circuit relay	(AA:3 B/ AE:4 B)
F26	Bodybuilder fusebox	(ME:3 B)	F59	Rear view camera	(IZ:0 A)
F27	El. window winder lhs, el. heated mirrors	(AA:3 B)	F61	Foldable rearview mirror arm, Japan, burglar alarm	(IF:0 A)
F28	Supply ABS/EBS truck	(EE:0 A/ EI:0 A/ EM:1 A)	F62	Free	(ME:0 A)
F29	Coffee maker	(ME:1 A)	F63	Free/ISX-functions (AUS only) ...	(CP:1 A)
F30	El. window winder, rhs	(AA:3 B)	F64	Free/ISX-functions (AUS only) ...	(CP:2 A)
F31	Parking heater	(HI:0 A/ HM:0 A/ HP:0 A)	F65	Central lubrication system	(FU:0 A)
F32	ECC climate unit	(HG:0 A)	F66	Roof hatch	(IQ:0 A)
F33	El. cab tilt	(KA:0 A)	F67	Reading lamps, bedlamps	(IH:0 A)
			F68	Refrigerator	(IQ:3 A)
			F69	12-volt outlet	(IR:1 C)

F70	Trailer ABS/EBS, (kl. 15)	(EC:1 A/ CP:4 A)	F90	12V converter, ABS trailer/info- module	(CP:3 C)
F71	Extra equipment	(ME:1 A)	FM1	Fuse, main, preheating	(AA:0 B/ AE:2 B)
F72	Headlamp level regulation sys- tem	(GQ:1 A/ GU:0 A)	FM2	Fuse, main, bogie lift/extra equip- ment	(AA:0 B/ AE:1 B)
F73	Hydraulic steered axle	(FM:0 A/ FP:1 A)	FM3	Fuse, main, cab and chassis	(AA:0 B/ AE:2 B)
F74	Headlamp high-pressure washer	(GM:1 A)	FM4	Fuse, main, light, back-up	(AA:0 B/ AE:1 B)
F75	El. heated seat	(IA:0 A)			
F76	ADR/TRS, D+ short circuit relay	(AE:4 B)			
F89	Tachograph	(AA:0 B) (1435)			

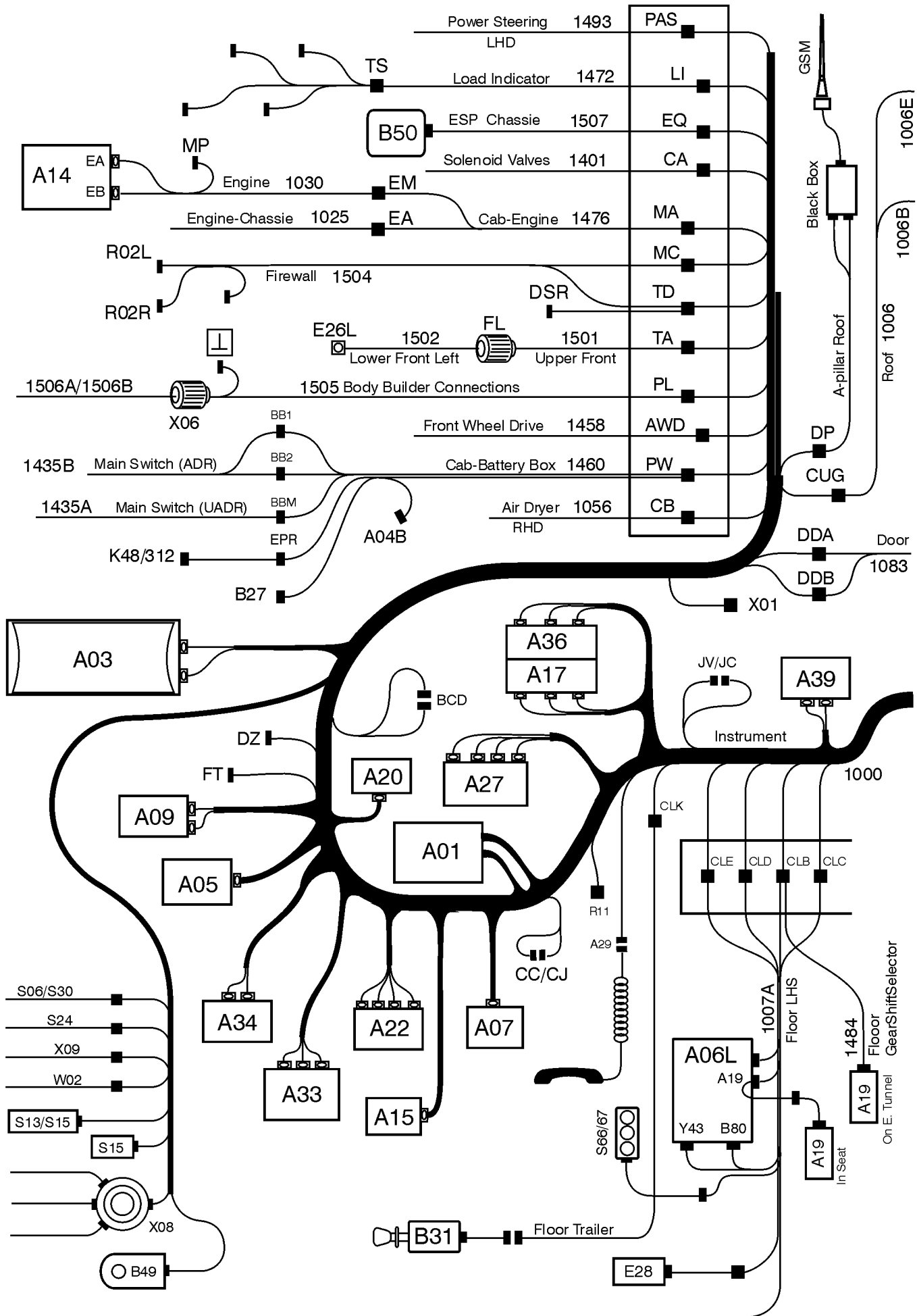
Relays

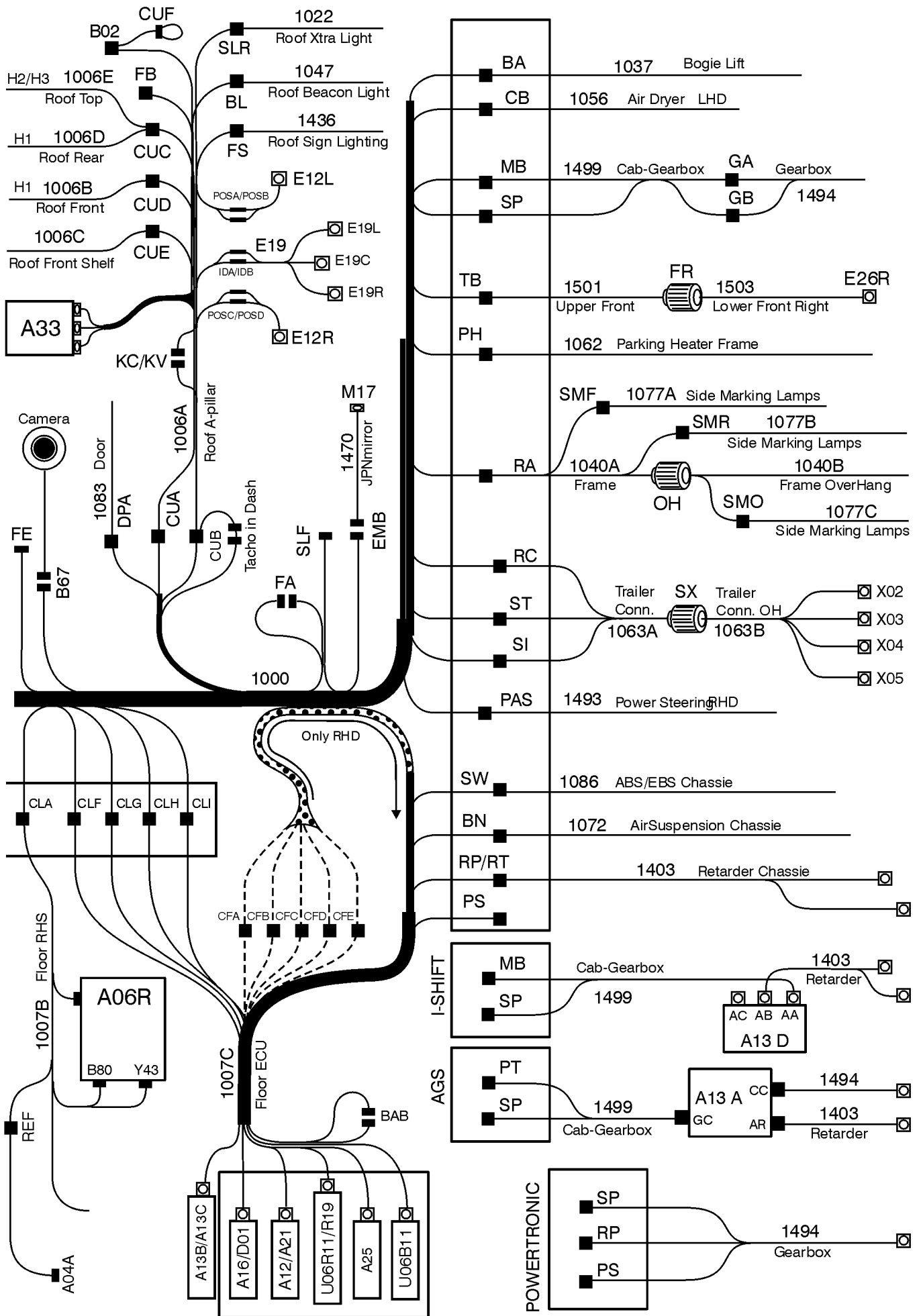


K1	Relay, starting switch, radio position	(AA:3 B)	K26B	Relay, foldable rearview mirror arm, Japan	(IF:1 C)
K2	Relay, EMS (Engine Management System)	(BA:1 A)	K27	Relay, gas discharge lamp, dipped beam, lhs	(GB:0 D)
K3	Relay, starter motor	(AA:1 C)	K28	Relay, gas discharge lamp, dipped beam, rhs	(GB:0 D)
K3B	Relay, starter motor, Cummins ...	(CS:1 C)	K30	Relay, beacon warning light	(KM:0 B)
K4	Relay, bodybuilder fuse box (kl.15)	(ME:2 A)	K35	Relay, headlamp high pressure wash	(GM:0 C)
K5	Relay, automatic transmission	(DB:1 A/ DM:0 A)	K37A	Relay, parking light	(NR:0 C)
K6	Relay, fan climate unit	(HY:0 B)	K37B	Relay, parking light	(NA:0 C)
K7	Relay, intermittent wiper	(GM:1 C)	K38	Relay, pressure selection, tipper trailer	(NA:1 C)
K8	Relay, gearbox area inhibitor	(BA:1 A)	K38A	Relay, pressure selection, tipper trailer	(NR:1 C)
K9	Relay, interior lamps	(IH:1 A)	K38B	Relay, pressure selection, tipper trailer	(NR:1 C)
K10	Relay, fifth wheel-, working-light	(KE:0 C)	K39A	Relay, prepared wirings for bodybuilder (auxsw-6) A	(NA:1 C)
K11	Relay, air suspension	(FA:4 B)	K39B	Relay, prepared wirings for bodybuilder (auxsw-6) A	(NA:1 C)
K12	Not used	(ME:4 B)	K40A	Relay, prepared wirings for bodybuilder (auxsw-6) B	(NR:3 C)
K13	Relay, alternator controled	(AA:4 C)	K40B	Relay, prepared wirings for bodybuilder (auxsw-6) B	(NA:2 C)
K14	Time delay relay, bogie lift, A-ride	(FK:1 C)	K41A	Relay, prepared wirings for bodybuilder (auxsw-6) C	(NR:3 C)
K15	Time delay relay, bogie lift, A-ride, with axle load limiter	(FK:2 C)	K41B	Relay, prepared wirings for bodybuilder (auxsw-6) C	(NA:3 C)
K16	Relay, bogie lift, A-ride, with axle load limiter	(FK:1 C)	K42	Relay, spotlights	(NI:1 B)
K17	Relay, 3:rd axle lock, self steered axle	(FM:0 C)	K43	Relay, external engine start	(NC:3 C)
K18	Relay, hydraulic steered axle	(FP:1 B)	K45	Relay, prepared wirings for bodybuilder	(NU:2 B)
K19	Relay, 3:rd axle lock, self steered axle	(FM:1 C)	K48	Power relay, engine preheating ..	(CM:2 B)
K20	Relay, D+ short-circuit, (ADR-trucks only)	(AE:4 D)	K51	Power relay, battery main switch	(AA:0 C/ CS:0 C)
K21	Relay, el. adjustable seat	(IA:2 B)	K52	Power relay, ADR battery main switch	(AE:0 B)
K22	Relay, climate fan, 1:st speed (by parking heater)	(HY:1 B)	K54	Relay, 12V ABS Trailer	(CP:2 D)
K23	Relay, cab tilt	(KA:0 C)			
K24	Relay, central lubrication	(FU:0 B)			
K25	Relay, light sign	(KI:1 C)			
K26A	Relay, foldable rearview mirror arm, Japan	(IF:0 C)			

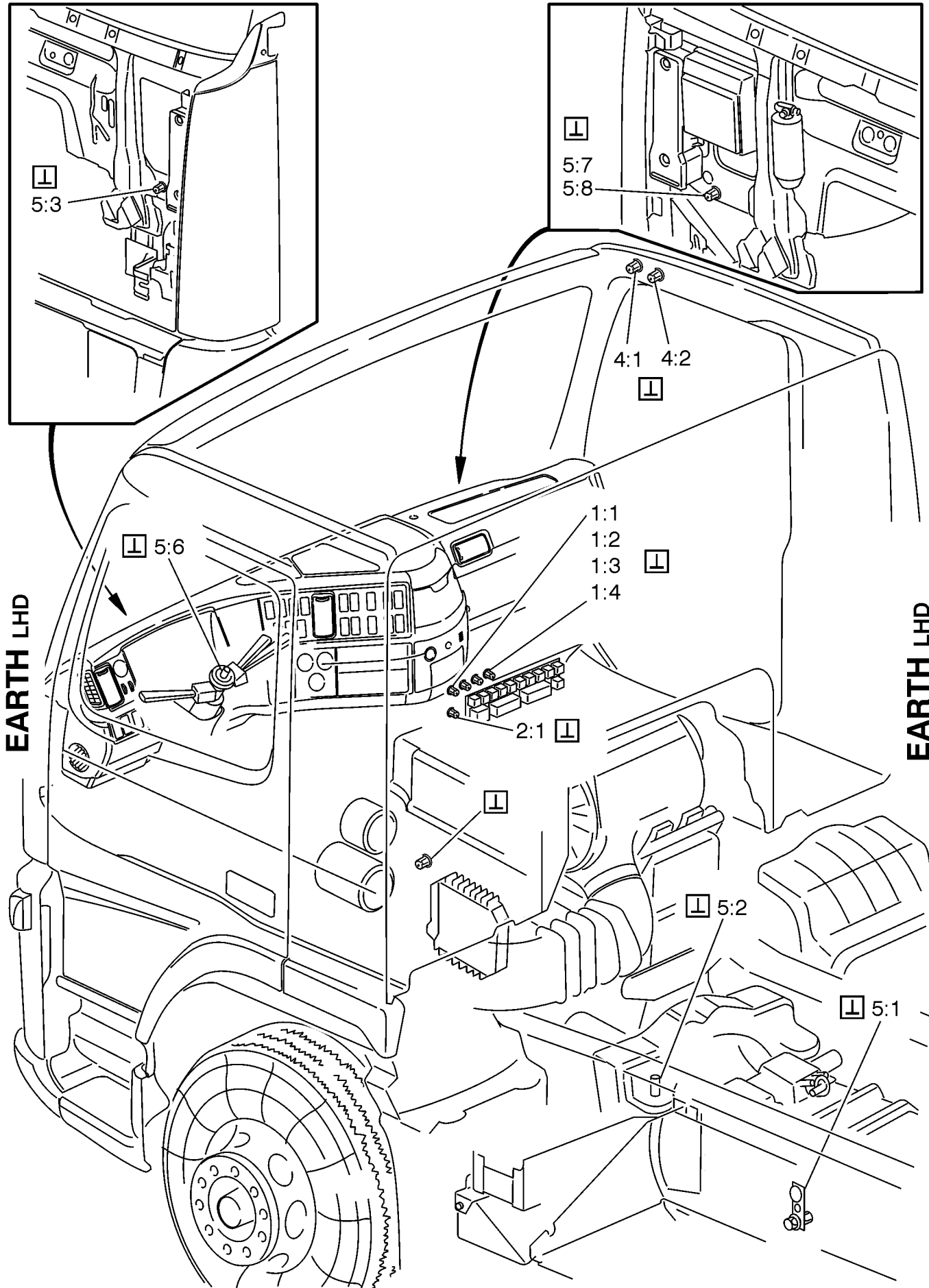
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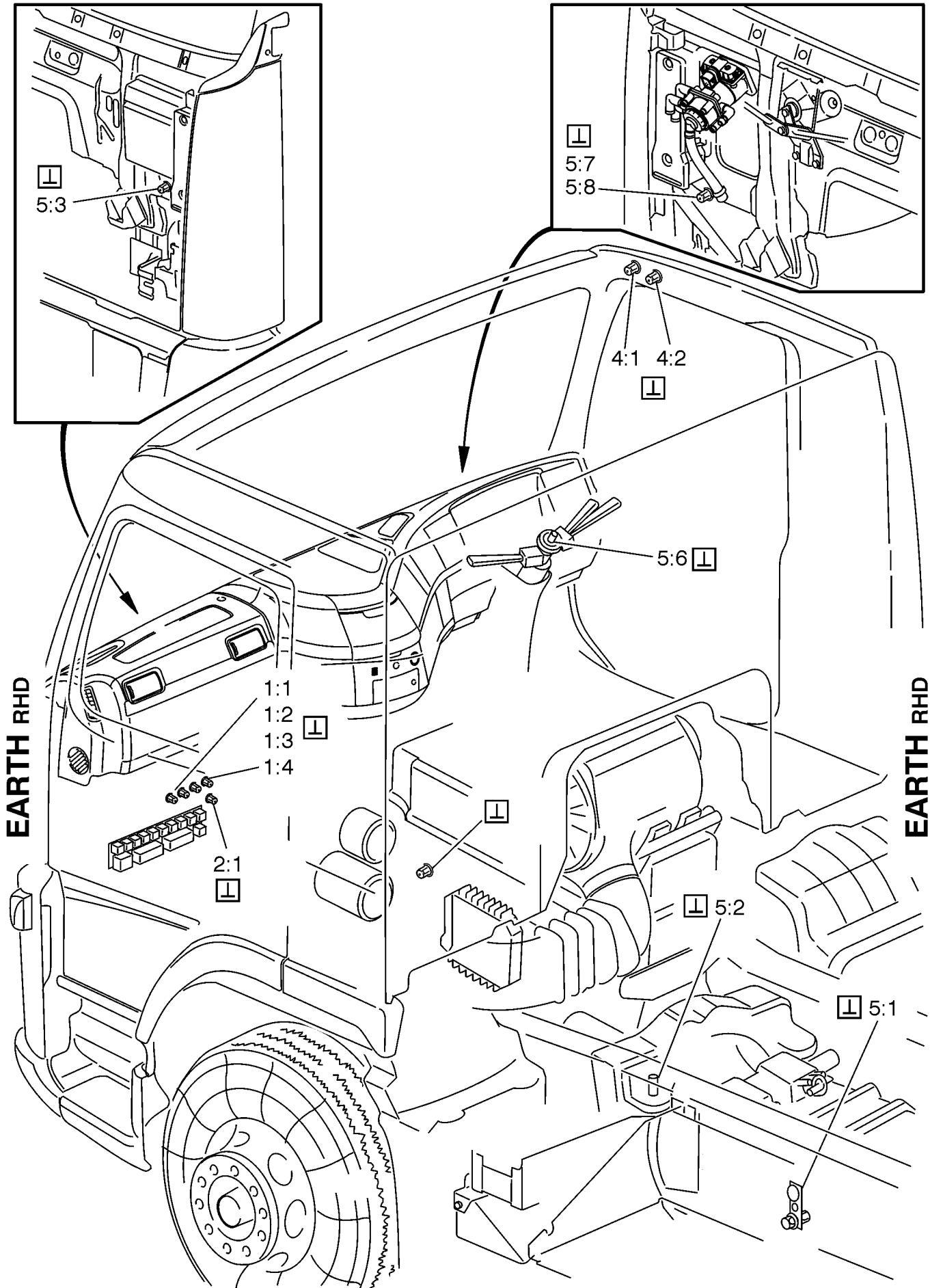
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Earth connections





T3016381

List of earth connections

1:2	(BA:2 E)	4:1:2	(GA:0 E)	5:2	(AA:2 E)
1:3	(AE:4 E)	4:1:2	(IH:0 E)	5:2	(AE:2 E)
1:4	(AA:2 E)	4:1:2	(KI:1 B)	5:2	(AE:3 E)
2:1	(CP:1 E)	4:2	(IQ:1 E)	5:3	(AA:2 D)
2:1	(ME:0 B)	4:2:2	(HI:0 B)	5:4	(FK:3 E)
2:1	(NA:2 C)	4:2:5	(KM:0 E)	5:6	(GQ:1 E)
2:1	(NR:2 C)	4:1F	(NI:1 E)	5:7	(GB:3 E)
2:1B	(GB:0 E)	5:1	(AA:0 E)	5:7	(GC:1 E)
2:1C	(NI:0 E)	5:1	(NA:4 D)	5:8	(EC:1 E)
4:1:1	(GA:1 E)	5:1	(NR:3 D)		
4:1:1	(GA:4 E)	5:2	(AA:0 E)		
4:1:2	(BN:0 C)				

List of connectors

ADR1:1	(AE:1 C)	BCD:10	(XA:3 B)	CFF:2	(CP:4 B)
ADR1:2	(AE:1 C)	BCD:11	(XA:4 B)	CFF:3	(CP:3 C)
ADR2:1	(AE:1 C)	BCD:12	(IS:2 D)	CFF:4	(CP:3 C)
ADR2:2	(AE:2 C)	BCD:13	(XA:2 B)	CFF:5	(CP:4 C)
ADR3:1	(AE:1 C)	BCD:14	(XA:4 B)	CLA:1	(IA:0 B)
ADR3:2	(AE:2 C)	BL:1	(KM:0 C)	CLA:2	(IA:1 B)
ADR4:1	(AE:2 C)	BL:2	(KM:0 D)	CLA:3	(BI:1 C)
ADR4:2	(AE:2 C)	BN:1	(FA:2 A)	CLA:4	(IA:0 D)
AR:1	(DE:1 D)	BN:2	(FA:1 D)	CLA:5	(IH:4 D)
AR:2	(DE:0 C)	BN:3	(FA:2 D)	CLA:6	(BI:3 D)
AR:3	(DE:0 C)	BN:4	(FA:2 D)	CLA:7	(NK:0 D)
AR:4	(DE:0 C)	BN:5	(FA:1 C)	CLA:8	(FA:4 D)
AR:5	(DE:1 C)	BN:6	(FA:1 C)	CLA:9	(AE:2 C)
AR:6	(DE:1 C)	BN:7	(FA:1 C)	CLA:9	(FA:4 D)
AR:7	(DE:1 C)	BN:8	(FA:2 D)	CLA:10	(AE:2 C)
AWD:3	(DU:2 C)	BN:9	(FA:0 C)	CLA:10	(FA:4 D)
AWD:4	(DU:2 C)	BN:10	(FA:1 D)	CLA:11	(AE:2 C)
AWD:5	(DU:4 C)	BN:11	(FA:2 C)	CLA:11	(FA:4 D)
AWD:6	(DU:4 C)	BN:12	(FA:1 C)	CLA:12	(AE:2 C)
AWD:8	(DU:2 D)	BN:13	(FA:2 C)	CLA:12	(FA:4 D)
BA:1	(FK:1 D)	BN:14	(FA:0 D)	CLA:13	(FA:4 D)
BA:2	(FK:3 D)	BN:15	(FA:1 D)	CLA:14	(FA:3 D)
BA:3	(FK:0 C)	BN:16	(FA:1 D)	CLA:15	(FA:3 D)
BA:5	(FK:1 D)	BN:16	(FG:1 C)	CLA:16	(IS:3 C)
BA:7	(FK:3 C)	BN:17	(FA:1 D)	CLA:17	(IS:3 C)
BA:8	(FK:1 D)	BN:18	(FA:1 D)	CLA:19	(IQ:3 C)
BAB:1	(XA:4 D)	BN:18	(FG:0 C)	CLA:20	(BI:3 D)
BAB:2	(XA:2 D)	BN:19	(FA:0 D)	CLA:21	(IQ:3 D)
BAB:3	(XA:3 D)	BN:20	(FA:0 D)	CLB:1	(DB:1 B)
BAB:4	(XA:2 D)	BN:21	(FM:0 D)	CLB:2	(DB:1 B)
BAB:5	(XA:3 D)	CA:1	(DQ:0 D)	CLB:3	(DB:0 B)
BAB:6	(XA:2 D)	CA:2	(GB:3 B)	CLB:4	(DB:0 B)
BAB:7	(XB:3 D)	CA:3	(DU:1 C)	CLB:5	(DB:0 B)
BAB:8	(XA:3 D)	CA:4	(DQ:0 C)	CLB:6	(DB:0 B)
BAB:9	(XA:3 D)	CA:5	(GB:3 B)	CLB:7	(DB:0 D)
BAB:10	(XB:3 D)	CA:9	(DU:1 C)	CLB:8	(DB:0 D)
BAB:11	(XB:2 D)	CA:11	(EM:2 B)	CLB:9	(DB:0 B)
BAB:12	(XB:2 D)	CA:12	(EM:2 B)	CLB:11	(DB:3 B)
BAB:13	(XB:3 D)	CA:13	(EM:2 B)	CLB:12	(DB:3 B)
BAB:14	(XB:2 D)	CA:14	(EM:2 B)	CLB:15	(DB:1 D)
BAB:15	(XB:1 D)	CA:16	(DU:1 D)	CLC:1	(HI:0 C)
BAB:16	(XB:3 D)	CA:17	(FU:0 C)	CLC:2	(HI:0 C)
BAB:17	(XB:3 D)	CA:18	(FU:0 D)	CLC:3	(HI:0 C)
BAB:18	(XB:1 D)	CA:19	(NC:0 C)	CLC:4	(HI:2 C)
BB1:1	(AA:0 B)	CA:19	(NU:0 C)	CLC:6	(HI:2 C)
BB1:2	(AE:1 D)	CA:20	(NC:1 C)	CLC:7	(HI:3 C)
BB1:3	(AE:1 D)	CA:20	(NU:1 C)	CLC:8	(HI:1 C)
BB1:4	(AE:1 D)	CB:1	(FQ:0 B)	CLC:9	(HI:1 C)
BB1:5	(AE:2 D)	CB:2	(FQ:0 C)	CLC:10	(HI:4 C)
BB1:6	(AE:2 D)	CB:3	(BA:0 D)	CLC:11	(HI:3 C)
BB2:1	(AE:1 A)	CB:4	(BA:0 D)	CLC:12	(HI:2 C)
BB2:2	(AE:1 D)	CC/CJ:1	(IZ:2 B)	CLD:1	(IX:0 C)
BB2:3	(AE:1 D)	CC/CJ:2	(IZ:2 B)	CLD:2	(IX:0 C)
BBM:1	(AA:0 B)	CC/CJ:3	(IZ:1 A)	CLD:3	(IX:1 C)
BBM:2	(AA:0 B)	CC/CJ:4	(IZ:1 B)	CLD:4	(IX:1 C)
BBM:3	(AA:1 C)	CC:1	(DE:3 D)	CLE:1	(IA:1 B)
BCD:1	(XA:2 B)	CC:3	(DE:3 C)	CLE:2	(IA:3 B)
BCD:2	(XA:3 B)	CC:4	(DE:2 C)	CLE:3	(BI:1 C)
BCD:3	(XB:0 C)	CC:5	(DE:3 C)	CLE:4	(IA:1 E)
BCD:4	(XA:2 B)	CC:6	(DE:2 C)	CLE:5	(IH:4 D)
BCD:5	(XA:2 B)	CC:9	(DE:2 C)	CLE:6	(BI:3 C)
BCD:6	(IS:2 D)	CC:10	(DE:2 C)	CLE:7	(NK:0 D)
BCD:7	(XA:3 B)	CC:11	(DE:2 C)	CLE:8	(IH:4 C)
BCD:8	(XA:3 B)	CC:12	(DE:2 D)	CLE:9	(AE:1 C)
BCD:9	(XB:0 C)	CFF:1	(CP:4 B)	CLE:9	(FA:2 D)

CLE:10	(AE:1 C)	CLH:1	(FK:2 B)	CUA:20	(HI:1 C)
CLE:10	(FA:2 D)	CLH:2	(FA:4 C)	CUA:20	(HM:4 C)
CLE:11	(AE:1 C)	CLH:2	(FK:2 B)	CUA:21	(GB:0 B)
CLE:11	(FA:3 D)	CLH:3	(FA:2 C)	CUB/TACH:1	(BM:1 B)
CLE:12	(AE:1 C)	CLH:3	(FK:2 B)	CUB/TACH:2	(BM:3 C)
CLE:12	(FA:3 D)	CLH:4	(FG:0 C)	CUB/TACH:3	(BM:1 B)
CLE:13	(FA:3 D)	CLH:4	(FK:2 B)	CUB/TACH:4	(BM:2 B)
CLE:14	(FA:3 D)	CLH:5	(FA:2 C)	CUB/TACH:5	(BM:3 B)
CLE:15	(FA:3 D)	CLH:5	(FK:2 B)	CUB/TACH:6	(BM:3 C)
CLE:16	(FA:3 D)	CLH:6	(FA:4 D)	CUB/TACH:7	(BM:2 C)
CLE:17	(IS:2 C)	CLH:6	(FA:2 D)	CUB/TACH:8	(BM:2 C)
CLE:18	(IS:2 C)	CLH:7	(FA:2 D)	CUB/TACH:9	(BM:2 C)
CLE:20	(BI:3 C)	CLH:7	(FA:4 D)	CUB/TACH:10	(BM:2 C)
CLF:1	(IR:1 B)	CLH:8	(FA:3 D)	CUB/TACH:11	(IU:0 B)
CLF:2	(IR:1 B)	CLH:8	(FA:4 D)	CUB/TACH:12	(KI:1 C)
CLF:3	(IR:1 C)	CLH:9	(FA:3 D)	CUB/TACH:13	(IM:0 B)
CLF:4	(IR:1 D)	CLH:9	(FA:4 D)	CUB/TACH:14	(HI:2 B)
CLF:5	(IR:0 B)	CLH:10	(FA:3 D)	CUB/TACH:14	(HM:2 B)
CLF:6	(IR:0 B)	CLH:10	(FA:4 D)	CUB/TACH:15	(HI:1 B)
CLF:7	(IR:0 C)	CLH:11	(FA:3 D)	CUB/TACH:15	(HM:2 B)
CLF:8	(IR:0 C)	CLH:11	(FA:4 D)	CUB/TACH:18	(IH:3 A)
CLF:9	(IR:0 D)	CLH:12	(FA:3 D)	CUB:1	(BN:1 A)
CLF:10	(DB:2 B)	CLH:13	(FM:0 C)	CUB:2	(BN:3 C)
CLF:10	(DM:1 C)	CLH:14	(FG:0 C)	CUB:3	(BN:1 A)
CLF:11	(DB:1 D)	CLH:15	(FG:0 C)	CUB:4	(BN:2 A)
CLF:11	(DM:0 D)	CLH:16	(FA:3 C)	CUB:5	(BN:3 A)
CLF:12	(DM:0 C)	CLH:17	(FA:3 C)	CUB:6	(BN:3 C)
CLF:13	(XA:3 D)	CLH:18	(FG:0 C)	CUB:7	(BN:2 C)
CLF:14	(XA:3 D)	CLH:19	(FG:1 C)	CUB:8	(BN:2 C)
CLF:15	(XB:3 D)	CLH:20	(FA:3 C)	CUB:9	(BN:2 C)
CLF:16	(XB:2 D)	CLH:21	(FA:3 D)	CUB:10	(BN:2 C)
CLF:17	(FG:1 C)	CLI:1	(EM:0 C)	CUB:11	(BN:3 C)
CLF:18	(XA:4 C)	CLI:2	(EM:0 C)	CUB:12	(KI:1 B)
CLF:19	(XA:2 C)	CLI:3	(EM:0 C)	CUB:13	(IM:0 B)
CLF:20	(XB:1 C)	CLI:4	(EM:0 C)	CUB:14	(HI:2 C)
CLF:21	(XB:3 C)	CLI:5	(EM:2 B)	CUB:14	(HM:2 B)
CLG:1	(EE:0 B)	CLI:6	(EM:2 B)	CUB:15	(HI:1 A)
CLG:1	(EI:0 B)	CLI:7	(EM:2 B)	CUB:15	(HM:2 B)
CLG:1	(EM:0 B)	CLI:8	(EM:2 B)	CUB:16	(GC:2 A)
CLG:2	(EE:0 B)	CLI:9	(EQ:1 C)	CUB:17	(GC:3 B)
CLG:2	(EI:0 B)	CLI:10	(EQ:1 C)	CUB:18	(IH:3 B)
CLG:2	(EM:0 B)	CLI:11	(EQ:1 C)	CUB2/CUB:11	(BN:3 C)
CLG:3	(EE:3 B)	CLI:12	(EQ:1 C)	CUB2/CUB:12	(KI:1 B)
CLG:3	(EI:2 B)	CLK:1	(NR:1 A)	CUB2/CUB:13	(IM:0 B)
CLG:3	(EM:3 B)	CLK:2	(NR:1 C)	CUB2/CUB:14	(HI:2 C)
CLG:4	(EM:1 B)	CLK:3	(NR:1 C)	CUB2/CUB:14	(HMI:2 C)
CLG:5	(EM:4 B)	CLK:4	(NR:1 B)	CUB2/CUB:15	(HI:1 A)
CLG:6	(EE:3 B)	CUA:1	(GA:1 C)	CUB2/CUB:15	(HM:2 A)
CLG:6	(EI:3 B)	CUA:2	(GA:4 C)	CUB2/CUB:18	(IH:3 B)
CLG:6	(EM:1 B)	CUA:3	(IH:1 B)	CUC:1	(IH:3 C)
CLG:7	(EM:4 B)	CUA:4	(IH:0 B)	CUC:2	(IH:3 C)
CLG:8	(EM:1 B)	CUA:5	(IH:3 B)	CUC:3	(IH:1 B)
CLG:9	(EM:0 B)	CUA:6	(IH:3 C)	CUC:4	(IH:0 B)
CLG:10	(EM:0 B)	CUA:7	(IQ:0 B)	CUC:5	(IH:3 B)
CLG:13	(EM:0 D)	CUA:8	(KM:0 C)	CUC:6	(IQ:1 C)
CLG:14	(EM:0 D)	CUA:9	(NI:1 B)	CUC:7	(IQ:0 C)
CLG:15	(EQ:0 D)	CUA:10	(NI:1 B)	CUC:8	(IQ:1 C)
CLG:16	(EQ:0 D)	CUA:11	(KI:1 C)	CUC:9	(IU:2 D)
CLG:17	(EQ:0 D)	CUA:12	(IH:3 C)	CUC:10	(IU:2 D)
CLG:18	(EQ:0 D)	CUA:13	(IU:2 D)	CUC:11	(IU:2 D)
CLG:19	(EQ:2 D)	CUA:14	(IU:2 D)	CUC:12	(IU:2 D)
CLG:20	(EE:4 D)	CUA:15	(IU:2 D)	CUC:13	(HI:1 B)
CLG:20	(EI:4 D)	CUA:16	(IU:2 D)	CUC:14	(HI:1 B)
CLG:20	(EM:2 B)	CUA:17	(HI:1 C)	CUC:14	(HM:3 B)
CLG:21	(EI:0 C)	CUA:18	(HI:1 B)	CUC:15	(HM:3 B)
CLG:21	(EM:0 B)	CUA:18	(HM:3 C)	CUC:16	(HI:1 B)
CLH:1	(FA:3 C)	CUA:19	(HM:3 C)	CUC:16	(HM:4 B)

CUC:17	(IH:3 B)	DSL:2	(NU:2 D)	FA:5	(NI:1 A)
CUC:18	(HI:0 D)	DSR:1	(NU:2 C)	FA:6	(BA:0 C)
CUC:19	(HI:3 B)	DSR:2	(NU:2 D)	FA:7	(BI:1 C)
CUC:19	(HMI:3 B)	DZ:1	(BU:0 B)	FA:8	(GA:4 C)
CUC:20	(HI:3 C)	DZ:2	(BU:0 B)	FA:8	(NA:0 A)
CUC:20	(HM:3 B)	DZ:3	(BU:1 B)	FA:8	(NR:0 A)
CUC:21	(HI:2 A)	E03L-:1	(NI:0 D)	FA:9	(GB:3 D)
CUC:21	(HM:3 B)	E03L+:1	(NI:0 C)	FA:9	(NA:0 A)
CUD:1	(IH:1 B)	E03R-:1	(NI:0 D)	FA:9	(NR:0 A)
CUD:2	(IH:1 B)	E03R+:1	(NI:0 C)	FA:10	(GC:2 B)
CUD:3	(IH:1 D)	EA:1	(AA:3 D)	FA:10	(NA:0 A)
CUE:1	(IH:0 B)	EA:1	(AE:3 D)	FA:10	(NR:0 A)
CUE:3	(IH:0 D)	EA:1	(CS:1 B)	FA:10	(NU:2 B)
CUF:1	(HM:3 C)	EA:2	(AA:3 D)	FA:11	(GB:0 A)
CUF:2	(HM:3 C)	EA:2	(AE:3 D)	FA:11	(NA:2 A)
CUG:1	(NK:2 C)	EA:2	(CS:1 B)	FA:11	(NR:1 A)
CUG:2	(NK:2 C)	EA:3	(CS:2 B)	FA:12	(BA:12 D)
CUG:4	(NK:3 C)	EA:3	(HG:0 D)	FA:13	(GQ:2 C)
CUG:5	(NK:3 C)	EA:3	(HY:2 D)	FA:14	(AA:1 B)
DDA:1	(IM:1 C)	EA:4	(AA:1 D)	FA:15	(GB:2 D)
DDA:2	(IE:0 B)	EA:4	(CS:1 B)	FA:16	(ME:0 C)
DDA:3	(IE:1 B)	EM:1	(CM:1 D)	FA:16	(NA:1 D)
DDA:4	(IE:2 B)	EM:1	(CO:1 B)	FA:16	(NR:2 D)
DDA:5	(IH:2 C)	EM:1	(CS:3 B)	FA:17	(ME:0 C)
DDA:6	(IE:3 B)	EM:2	(CM:2 D)	FA:17	(NA:2 D)
DDA:7	(IM:1 C)	EM:2	(CO:2 B)	FA:17	(NR:3 D)
DDA:8	(IM:1 C)	EM:2	(CS:3 B)	FA:18	(ME:0 C)
DDA:9	(IM:1 C)	EM:3	(CM:2 D)	FA:19	(ME:1 C)
DDA:10	(IU:1 D)	EM:3	(CO:2 B)	FA:19	(NA:3 D)
DDA:11	(IU:1 D)	EM:3	(CS:3 B)	FA:19	(NR:3 D)
DDA:12	(IH:2 C)	EM:4	(CM:1 D)	FA:20	(MA:1 C)
DDA:13	(IE:0 C)	EM:4	(CO:1 B)	FA:21	(MA:1 C)
DDA:14	(IE:1 C)	EM:4	(CS:3 B)	FB:1	(KI:1 A)
DDA:15	(IE:1 C)	EM:5	(CM:1 D)	FB:3	(IZ:2 A)
DDB:1	(IE:1 C)	EM:5	(CO:2 B)	FE:1	(IF:1 A)
DDB:2	(IE:2 C)	EM:5	(CS:3 B)	FE:1	(ME:1 B)
DDB:3	(IE:2 C)	EM:6	(CM:2 D)	FE:1	(NC:0 B)
DDB:4	(IE:0 C)	EM:6	(CO:3 B)	FE:1	(NU:0 A)
DDB:5	(IE:0 B)	EM:6	(CS:2 B)	FE:2	(IF:1 A)
DDB:6	(IE:0 B)	EM:7	(CM:3 D)	FE:2	(ME:1 B)
DDB:7	(IE:1 B)	EM:7	(CO:4 B)	FE:2	(NC:0 B)
DDB:8	(IE:2 B)	EM:8	(CS:2 B)	FE:2	(NU:0 A)
DDB:9	(IE:2 B)	EM:9	(CM:1 D)	FE:3	(IF:1 A)
DP:1	(BU:0 A)	EM:9	(CO:1 B)	FE:3	(ME:1 B)
DP:2	(BU:0 A)	EM:9	(CS:3 B)	FE:3	(NC:0 B)
DP:3	(BU:1 D)	EM:10	(CM:0 D)	FE:3	(NU:0 A)
DP:4	(BU:0 D)	EM:10	(CO:3 B)	FE2:1	(IF:2 A)
DP:5	(BU:0 D)	EM:10	(CS:3 D)	FE2:1	(NC:0 B)
DP:6	(BU:0 D)	EM:11	(CM:2 D)	FE2:1	(NU:0 B)
DP:7	(BU:1 D)	EM:11	(CO:0 B)	FE2:2	(IF:2 A)
DP:8	(BU:1 D)	EM:12	(CM:0 D)	FE2:2	(NC:0 B)
DP:9	(BU:1 D)	EM:12	(CO:4 B)	FE2:2	(NU:0 B)
DP:10	(BU:1 D)	EM:12	(CS:2 B)	FE2:3	(IF:1 A)
DP:11	(BU:1 D)	EMB:1	(IF:0 D)	FE2:3	(NC:0 B)
DP:12	(BU:1 D)	EMB:2	(IF:1 D)	FE2:3	(NU:0 B)
DPA:1	(IM:2 C)	EPR:1	(CM:2 B)	FL:1	(GA:2 D)
DPA:3	(IE:3 B)	EPR:3	(CM:3 B)	FL:2	(GA:2 C)
DPA:4	(IE:3 B)	EPR:4	(CM:2 C)	FL:3	(GA:2 C)
DPA:5	(IH:2 C)	EQ:1	(EQ:1 D)	FL:4	(NK:3 D)
DPA:6	(IE:3 B)	EQ:2	(EQ:1 D)	FL:5	(NK:3 D)
DPA:7	(IM:2 C)	EQ:3	(EQ:1 D)	FL:6	(GA:2 C)
DPA:8	(IM:2 C)	EQ:4	(EQ:1 D)	FL:7	(GA:2 C)
DPA:9	(IM:2 C)	FA:1	(BI:4 B)	FL:8	(GA:1 C)
DPA:10	(IU:1 D)	FA:2	(FA:2 B)	FL:9	(GA:3 C)
DPA:11	(IU:2 D)	FA:3	(FA:2 B)	FL:10	(GQ:1 C)
DPA:12	(IH:2 C)	FA:4	(GB:2 C)	FL:11	(GQ:1 B)
DSL:1	(NU:2 C)	FA:5	(GA:2 C)	FL:12	(GQ:1 B)

FL:13	(GU:0 D)	JV/JC:11	(BA:3 C)	MB:8	(BI:1 D)
FL:14	(GU:0 D)	JV/JC:12	(BA:3 D)	MB:8	(DN:0 B)
FL:15	(GU:0 D)	JV/JC:13	(IM:2 C)	MB:9	(BA:0 B)
FL:16	(GQ:1 C)	JV/JC:14	(BA:0 C)	MB:9	(DN:0 B)
FL:21	(KA:0 C)	JV/JC:15	(BU:0 B)	MB:14	(BI:1 C)
FL:25	(GA:2 D)	JV/JC:16	(IM:2 A)	MB:15	(GB:3 D)
FR:1	(GA:3 D)	JV/JC:17	(HP:0 D)	MB:16	(BA:0 C)
FR:2	(GA:3 C)	JV/JC:18	(KM:1 C)	MC:1	(EM:0 D)
FR:3	(GA:3 C)	JV/JC:19	(BI:2 D)	MC:2	(EM:0 D)
FR:4	(NK:3 D)	JV/JC:20	(BU:0 B)	MC:3	(EM:0 D)
FR:5	(NK:4 D)	JV/JC:21	(IX:2 B)	MC:4	(EM:0 D)
FR:6	(GA:2 C)	KV/KC:1	(GB:0 B)	MP:1	(CO:3 C)
FR:7	(GA:3 C)	KV/KC:2	(GB:0 B)	MT:1	(CS:1 C)
FR:8	(GA:4 C)	KV/KC:3	(GB:0 B)	MT:2	(CS:1 C)
FR:9	(GA:3 C)	LI:1	(FG:0 B)	MT:3	(CS:3 D)
FR:10	(GM:0 C)	LI:2	(FG:0 B)	MT:5	(CS:2 D)
FR:11	(GM:0 C)	LI:3	(FG:0 B)	MT:6	(CS:2 D)
FR:13	(GU:1 D)	LI:4	(FG:0 B)	MT:7	(CS:2 D)
FR:14	(GU:1 D)	LI:5	(FG:1 B)	MT:8	(CS:2 D)
FR:15	(GU:1 D)	LI:6	(FG:1 B)	MT:9	(CS:4 B)
FR:16	(GM:1 C)	MA:1	(CS:2 A)	MT:10	(CS:4 B)
FR:21	(KA:0 C)	MA:1	(HG:0 C)	OH:1	(GC:1 C)
FR:25	(GA:3 D)	MA:1	(HY:2 D)	OH:2	(GC:2 C)
FS:1	(KI:1 D)	MA:2	(AA:1 D)	OH:3	(GC:1 C)
FS:2	(KI:1 D)	MA:2	(CS:1 A)	OH:4	(GC:2 C)
FT:1	(IR:0 D)	MA:3	(CS:3 A)	OH:9	(GC:1 C)
FT:2	(IR:0 D)	MA:3	(XB:0 B)	OH:13	(GC:1 C)
FT:3	(IR:1 D)	MA:4	(CS:3 A)	OH:14	(GC:2 C)
GA:1	(GB:3 D)	MA:4	(XB:0 B)	OH:17	(GC:1 C)
GA:2	(BA:1 C)	MA:5	(CS:3 A)	OH:18	(GC:2 C)
GA:2	(BI:1 D)	MA:5	(XA:0 B)	OH:24	(GC:1 E)
GA:3	(BI:1 C)	MA:6	(CS:3 A)	PAS:1	(BI:1 C)
GA:4	(BA:1 B)	MA:6	(XA:1 B)	PAS:1	(FP:0 C)
GA:5	(BA:0 B)	MA:7	(CM:2 C)	PAS:2	(FP:1 C)
GA:6	(BA:0 C)	MA:7	(CS:2 A)	PAS:3	(FP:1 C)
GA:7	(BA:0 C)	MA:8	(CM:2 C)	PAS:6	(BI:1 D)
GB:1	(BI:2 C)	MA:9	(AA:3 D)	PH:1	(HM:0 B)
GB:2	(BI:2 D)	MA:9	(AE:3 D)	PH:1	(HP:0 B)
GB:3	(BM:2 D)	MA:11	(CM:1 C)	PH:2	(HM:0 B)
GB:4	(BM:2 D)	MA:11	(CS:3 A)	PH:2	(HP:0 C)
GB:5	(BM:2 D)	MA:12	(CM:0 C)	PH:3	(HM:2 B)
GB:6	(BM:2 D)	MA:12	(CS:4 A)	PH:3	(HP:0 D)
GC:1	(DE:0 B)	MA:13	(AA:3 D)	PH:4	(HM:1 B)
GC:2	(DE:0 B)	MA:13	(AE:4 C)	PH:5	(HM:2 B)
GC:3	(DE:0 B)	MA:13	(CS:1 A)	PH:6	(HM:3 C)
GC:4	(DE:0 B)	MA:14	(CM:3 C)	PH:7	(HM:2 D)
GC:7	(DE:2 B)	MA:15	(BA:0 D)	PH:8	(HM:0 D)
GC:8	(DE:2 B)	MA:15	(CP:2 B)	PH:9	(HM:0 D)
GC:10	(DE:3 E)	MA:15	(CS:3 A)	PH:10	(HM:3 D)
GC:11	(DE:0 B)	MA:16	(BI:0 D)	PL:1	(NC:3 C)
GC:12	(DE:0 C)	MA:16	(CS:1 A)	PL:2	(NA:1 C)
IDA:1	(GA:1 C)	MA:17	(CU:0 B)	PL:2	(NR:1 C)
IDB:1	(GA:0 D)	MA:19	(CP:2 B)	PL:3	(NA:1 C)
IS:1	(DE:3 B)	MA:19	(CS:2 B)	PL:3	(NR:1 C)
IS:2	(DE:3 B)	MA:20	(CP:2 B)	PL:4	(NA:1 C)
IS:3	(DE:2 C)	MA:20	(CS:2 A)	PL:4	(NR:2 C)
IS:4	(DE:2 C)	MB:1	(DN:0 B)	PL:5	(NA:1 C)
JV/JC:1	(GC:1 B)	MB:1	(BI:2 D)	PL:5	(NR:1 C)
JV/JC:2	(KA:1 D)	MB:2	(BA:0 C)	PL:6	(NA:2 C)
JV/JC:3	(DQ:1 B)	MB:2	(DN:1 B)	PL:6	(NR:3 C)
JV/JC:4	(AE:3 B)	MB:3	(DN:1 B)	PL:7	(NC:1 C)
JV/JC:5	(AE:3 B)	MB:4	(BA:1 B)	PL:7	(NU:1 C)
JV/JC:6	(AE:3 B)	MB:4	(DN:1 B)	PL:8	(NA:4 C)
JV/JC:7	(AE:3 D)	MB:5	(BI:2 C)	PL:8	(NR:1 C)
JV/JC:8	(HI:3 D)	MB:6	(DN:0 B)	PL:9	(NC:1 C)
JV/JC:9	(BA:0 C)	MB:7	(DN:0 B)	PL:9	(NU:1 C)
JV/JC:10	(FU:0 D)	MB:8	(BA:1 C)	PL:10	(NC:2 C)

PL:10	(NU:2 C)	PW:6	(AE:1 D)	RT:2	(DM:2 C)
PL:11	(NA:0 C)	PW:7	(AE:2 C)	RT:3	(DM:2 C)
PL:11	(NR:0 C)	PW:8	(AE:2 C)	RT:4	(DM:2 C)
PL:12	(NA:0 C)	PW:9	(BI:2 D)	RT:5	(DM:2 C)
PL:12	(NR:0 C)	PW:10	(BI:2 C)	RT:6	(DM:3 C)
PL:13	(NC:1 C)	PW:11	(BI:2 C)	RT:7	(DM:3 C)
PL:13	(NU:1 C)	PW:12	(AA:0 B)	SI:1	(CP:3 B)
PL:14	(NC:1 C)	PW:15	(CM:3 B)	SI:1	(EC:1 C)
PL:14	(NU:1 C)	PW:16	(CM:2 B)	SI:1	(GK:3 A)
PL:15	(NC:2 C)	PW:17	(CM:2 C)	SI:2	(EC:0 C)
PL:15	(NU:2 C)	PW:18	(AA:3 D)	SI:2	(GK:3 A)
PL:16	(NC:2 C)	PW:19	(IQ:3 C)	SI:4	(EM:0 D)
PL:16	(NU:2 C)	PW:20	(IQ:3 D)	SI:4	(GK:4 A)
PL:17	(NC:2 C)	RA:1	(GC:1 E)	SI:5	(EM:0 D)
PL:17	(NU:2 C)	RA:2	(GC:1 B)	SI:5	(GK:4 A)
PL:18	(NA:3 C)	RA:3	(GC:1 B)	SLF:1	(NI:0 C)
PL:18	(NR:3 C)	RA:4	(GC:1 B)	SLF:2	(NI:0 D)
PL:19	(NC:3 C)	RA:5	(GC:2 B)	SLR:1	(NI:1 C)
PL:20	(NC:2 C)	RA:6	(GC:2 B)	SLR:2	(NI:1 D)
PL:20	(NU:2 C)	RA:7	(GC:1 B)	SMF:1	(GC:3 C)
PL:21	(NC:3 C)	RA:8	(GC:1 B)	SMF:2	(GC:0 C)
PL:21	(NU:3 C)	RA:9	(GC:2 B)	SMF:4	(GC:3 E)
PS:1	(DI:0 C)	RA:10	(GC:2 B)	SMO:1	(GC:2 C)
PS:2	(DI:0 C)	RA:12	(BI:2 C)	SMO:2	(GC:1 C)
PS:3	(DI:0 C)	RA:13	(BI:2 D)	SMO:4	(GC:1 D)
PS:4	(DI:0 C)	RA:14	(DU:3 C)	SMR:1	(GC:3 C)
PS:5	(DI:0 C)	RA:15	(HI:0 C)	SMR:2	(GC:0 C)
PS:6	(DI:0 C)	RA:15	(HM:0 D)	SMR:4	(GC:3 E)
PS:7	(DI:1 C)	RA:16	(HI:0 C)	SP:1	(BM:2 D)
PS:8	(DI:1 C)	RA:16	(HM:0 D)	SP:2	(BM:2 D)
PS:9	(DI:1 C)	RA:17	(DU:3 C)	SP:3	(BM:2 D)
PS:14	(DI:1 C)	RC:2	(GB:1 D)	SP:4	(BM:2 C)
PS:15	(DI:1 C)	RC:2	(GK:0 A)	ST:1	(CP:3 B)
PS:16	(DI:1 C)	RC:3	(GB:2 D)	ST:1	(EC:2 C)
PS:17	(DI:1 C)	RC:3	(GK:1 A)	ST:1	(GK:3 A)
PS:18	(DI:1 C)	RC:4	(GB:1 D)	ST:2	(CP:3 B)
PS:19	(DI:1 C)	RC:4	(GK:1 A)	ST:3	(CP:3 B)
PS:20	(DI:1 C)	RC:5	(GB:2 D)	SW:1	(EE:0 C)
PS:21	(DI:1 C)	RC:5	(GK:1 A)	SW:1	(EI:0 C)
PS:1	(DI:0 C)	RC:6	(GB:2 D)	SW:1	(EM:1 C)
PS:2	(DI:0 C)	RC:6	(GK:1 A)	SW:2	(EE:0 C)
PS:3	(DI:0 C)	RC:7	(ME:0 C)	SW:2	(EI:0 C)
PS:4	(DI:0 C)	RC:9	(ME:0 C)	SW:2	(EM:1 C)
PS:5	(DI:0 C)	RC:10	(GB:2 D)	SW:3	(EE:0 D)
PS:6	(DI:0 C)	RC:10	(GK:1 A)	SW:3	(EI:1 C)
PS:7	(DI:1 C)	RC:11	(ME:0 C)	SW:3	(EM:1 C)
PS:8	(DI:1 C)	RC:12	(ME:1 C)	SW:4	(EE:1 C)
PS:9	(DI:1 C)	RC:14	(GC:4 B)	SW:4	(EI:1 C)
PS:14	(DI:1 C)	RC:17	(ME:1 C)	SW:4	(EM:1 C)
PS:15	(DI:1 C)	RC:18	(ME:1 C)	SW:5	(EE:1 C)
PS:16	(DI:1 C)	RC:19	(GK:1 A)	SW:5	(EI:1 C)
PS:17	(DI:1 C)	RC:19	(KE:0 C)	SW:5	(EM:1 C)
PS:18	(DI:1 C)	RC:20	(GK:1 A)	SW:6	(EE:1 D)
PS:19	(DI:1 C)	RC:20	(KE:0 D)	SW:6	(EI:1 C)
PS:20	(DI:1 C)	RC:21	(CP:3 B)	SW:6	(EM:1 C)
PS:21	(DI:1 C)	RC:21	(GK:1 A)	SW:7	(EE:2 C)
PT:1	(DE:0 B)	REF:1	(IQ:3 C)	SW:7	(EI:2 C)
PT:2	(DE:0 B)	REF:2	(IQ:3 D)	SW:7	(EM:2 C)
PT:3	(DE:0 B)	REV:1	(NU:2 C)	SW:8	(EE:2 C)
PT:4	(DE:0 B)	RP:1	(DI:2 C)	SW:8	(EI:2 C)
PT:6	(DE:0 B)	RP:2	(DI:2 C)	SW:8	(EM:2 C)
PT:7	(DE:0 C)	RP:3	(DI:2 C)	SW:9	(EE:2 D)
PW:1	(AA:0 B)	RP:4	(DI:2 C)	SW:9	(EI:2 C)
PW:2	(AE:2 D)	RP:5	(DI:2 C)	SW:9	(EM:3 C)
PW:3	(AE:1 C)	RP:6	(DI:2 C)	SW:10	(EE:3 C)
PW:4	(AE:1 C)	RP:7	(DI:2 C)	SW:10	(EI:3 C)
PW:5	(AE:1 D)	RT:1	(DM:3 C)	SW:10	(EM:4 C)

SW:11	(EE:3 C)	TA:15	(GU:0 C)	X03:5	(GB:1 E)
SW:11	(EI:3 C)	TA:16	(GQ:1 C)	X03:6	(GB:2 E)
SW:12	(EE:3 D)	TA:17	(NK:3 C)	X03:7	(GB:1 E)
SW:12	(EI:3 C)	TB:1	(GA:3 D)	X03:8	(GB:2 E)
SW:13	(EE:0 C)	TB:2	(GA:3 C)	X03:9	(ME:0 D)
SW:13	(EI:0 C)	TB:3	(GA:3 C)	X03:10	(ME:0 D)
SW:14	(EE:0 C)	TB:4	(KA:0 C)	X03:11	(ME:0 D)
SW:14	(EI:0 C)	TB:5	(NK:3 C)	X03:12	(ME:1 D)
SW:15	(EE:1 C)	TB:6	(GA:2 C)	X03:13	(GB:3 E)
SW:15	(EI:1 C)	TB:7	(GA:3 C)	X03:14	(ME:1 D)
SW:16	(EE:1 C)	TB:8	(GA:4 C)	X03:15	(ME:1 D)
SW:16	(EI:1 C)	TB:9	(GA:3 C)	X04:1	(EC:1 E)
SW:17	(EE:2 C)	TB:10	(GM:0 C)	X04:1	(GK:2 E)
SW:17	(EI:2 C)	TB:11	(GM:0 C)	X04:2	(GB:1 E)
SW:18	(EE:2 C)	TB:12	(GA:3 D)	X04:2	(GK:2 E)
SW:18	(EI:2 C)	TB:13	(GU:1 C)	X04:3	(GB:2 E)
SW:19	(EE:3 C)	TB:14	(GU:1 C)	X04:3	(GK:2 E)
SW:19	(EI:3 C)	TB:15	(GU:1 C)	X04:4	(GB:1 E)
SW:20	(EE:3 C)	TB:16	(GM:1 C)	X04:4	(GK:2 E)
SW:20	(EI:3 C)	TB:17	(NK:4 C)	X04:5	(GB:2 E)
SX:1	(GK:2 C)	TB:19	(GQ:2 B)	X04:5	(GK:2 E)
SX:1	(ME:0 D)	TB:20	(GQ:2 C)	X04:6	(GB:2 E)
SX:2	(ME:0 D)	TD:1	(IE:0 C)	X04:6	(GK:2 E)
SX:3	(EC:0 D)	TD:2	(IE:0 D)	X04:7	(GK:2 E)
SX:3	(GK:3 C)	TD:3	(IE:0 C)	X04:7	(ME:0 D)
SX:4	(GB:2 D)	TD:4	(IE:1 C)	X05:1	(EC:2 E)
SX:4	(GK:2 C)	TD:5	(IE:1 C)	X05:2	(ME:0 D)
SX:5	(GC:4 C)	TD:6	(BI:2 C)	X05:3	(GB:2 E)
SX:6	(GB:2 D)	TD:7	(BI:2 D)	X05:4	(ME:0 D)
SX:6	(GK:2 C)	TD:8	(GM:3 D)	X05:5	(ME:1 D)
SX:7	(EM:0 D)	TD:9	(GM:3 C)	X05:7	(GC:4 E)
SX:7	(GK:3 C)	TD:10	(GM:3 C)	X06:1	(NC:3 D)
SX:8	(EM:0 D)	TD:11	(GM:2 C)	X06:2	(NA:1 D)
SX:8	(GK:3 C)	TD:12	(GM:2 C)	X06:2	(NR:1 D)
SX:10	(GB:1 D)	TD:13	(GQ:0 B)	X06:3	(NA:1 D)
SX:10	(GK:2 C)	TD:13	(NU:2 C)	X06:3	(NR:1 D)
SX:11	(GB:2 D)	TD:14	(GQ:0 C)	X06:4	(NA:1 D)
SX:11	(GK:2 C)	TD:14	(NU:2 D)	X06:4	(NR:2 D)
SX:12	(GB:1 D)	TD:15	(IE:1 C)	X06:5	(NA:1 D)
SX:12	(GK:2 C)	TD:16	(IE:1 D)	X06:5	(NR:1 D)
SX:15	(EC:1 D)	TD:17	(IE:1 C)	X06:6	(NA:2 D)
SX:15	(GK:3 C)	TD:18	(IE:2 C)	X06:6	(NR:3 D)
SX:18	(GB:2 D)	TD:19	(IE:2 C)	X06:7	(NC:1 D)
SX:20	(ME:1 D)	TS:1	(FG:0 B)	X06:7	(NU:1 D)
SX:21	(ME:1 D)	TS:2	(FG:0 B)	X06:8	(NA:4 C)
SX:24	(GB:3 D)	TS:3	(FG:0 B)	X06:8	(NR:1 D)
SX:24	(GK:3 C)	TS:4	(FG:0 B)	X06:9	(NC:1 D)
SX:25	(ME:0 D)	TS:5	(FG:1 B)	X06:9	(NU:1 D)
SX:29	(ME:1 D)	TS:6	(FG:1 B)	X06:10	(NC:2 D)
SX:30	(EC:2 D)	X02:1	(EC:2 D)	X06:10	(NU:2 D)
SX:30	(GK:3 C)	X02:1	(GK:3 E)	X06:11	(NA:0 D)
SX:31	(EC:1 D)	X02:2	(EC:1 D)	X06:11	(NR:0 D)
SX:31	(GK:2 C)	X02:2	(GK:3 E)	X06:12	(NA:0 D)
TA:1	(GA:2 D)	X02:3	(EC:1 D)	X06:12	(NR:0 D)
TA:2	(GA:2 C)	X02:3	(GK:3 E)	X06:13	(NC:1 D)
TA:3	(GA:2 C)	X02:4	(EC:1 D)	X06:13	(NU:1 D)
TA:4	(KA:0 C)	X02:4	(GK:3 E)	X06:14	(NC:1 D)
TA:5	(NK:3 C)	X02:5	(EC:0 D)	X06:14	(NU:1 D)
TA:6	(GA:2 C)	X02:5	(GK:3 E)	X06:15	(NC:2 D)
TA:7	(GA:2 C)	X02:6	(EM:0 E)	X06:15	(NU:2 D)
TA:8	(GA:1 C)	X02:6	(GK:3 E)	X06:16	(NC:2 D)
TA:9	(GA:3 C)	X02:7	(EM:0 E)	X06:16	(NU:2 D)
TA:10	(GQ:1 C)	X02:7	(GK:3 E)	X06:17	(NC:2 D)
TA:11	(GQ:1 B)	X03:1	(GB:2 E)	X06:17	(NU:2 D)
TA:12	(GA:2 D)	X03:2	(GB:2 E)	X06:18	(NA:3 D)
TA:13	(GU:0 C)	X03:3	(GC:4 E)	X06:18	(NR:3 D)
TA:14	(GU:0 C)	X03:4	(GB:3 E)	X06:19	(NA:3 D)

X06:19	(NR:2 E)	XD:5	(EI:0 D)	XK:9	(DB:1 B)
X06:20	(NC:2 D)	XD:5	(EM:0 C)	XK:9	(DM:1 B)
X06:20	(NU:2 D)	XD:6	(FA:3 D)	XK:10	(HY:0 B)
X06:21	(NC:3 D)	XD:6	(FK:0 C)	XK:11	(DB:1 B)
X06:21	(NU:3 D)	XD:6	(FM:1 D)	XK:11	(DM:0 B)
X06:22	(NC:3 D)	XD:8	(IX:2 D)	XK:12	(DB:1 B)
X06:24	(NA:3 D)	XD:9	(BA:1 C)	XK:12	(DM:1 B)
X06:24	(NR:2 D)	XD:9	(BI:1 E)	XK:13	(HY:0 B)
X06:30	(NA:3 D)	XD:10	(IS:1 D)	XK:14	(IQ:1 B)
X06:31	(NA:4 D)	XD:11	(AA:1 D)	XK:15	(IQ:2 B)
X15:1	(GK:2 C)	XD:12	(NC:0 B)	XK:16	(HY:1 B)
X15:2	(GK:2 C)	XD:12	(NU:2 D)	XK:17	(CU:0 B)
X15:3	(GK:2 C)	XE:1	(AA:2 D)	XK:18	(CU:0 B)
X15:4	(GK:2 C)	XF:1	(FA:4 B)	XL:1	(BA:1 B)
X15:5	(GK:2 C)	XF:2	(FQ:1 B)	XL:2	(IH:4 B)
X15:6	(GK:2 C)	XF:3	(ME:3 B)	XL:3	(BA:1 B)
X15:7	(GK:2 C)	XF:4	(KE:0 C)	XL:5	(BA:1 B)
XA:1	(GB:1 B)	XF:5	(FQ:0 B)	XL:6	(BA:1 B)
XA:2	(GB:1 B)	XF:6	(FQ:1 B)	XL:7	(DB:0 B)
XA:3	(GB:1 B)	XF:7	(KE:0 C)	XL:7	(DM:0 B)
XA:4	(GB:1 B)	XF:8	(KE:0 C)	XL:8	(BI:0 B)
XA:5	(GB:1 B)	XF:9	(AA:3 C)	XL:9	(BI:0 B)
XA:6	(GB:2 B)	XF:9	(AE:3 D)	XL:10	(DB:1 B)
XA:7	(GB:2 B)	XF:10	(FA:4 B)	XL:10	(DM:0 B)
XA:8	(GB:2 B)	XF:12	(KE:0 B)	XL:11	(BI:0 B)
XA:9	(GB:2 B)	XF:13	(BA:0 B)	XL:12	(BA:1 B)
XA:10	(GB:1 B)	XF:15	(FA:4 B)	XL:13	(DQ:0 B)
XA:11	(GB:1 B)	XF:18	(ME:4 A)	XL:14	(DU:1 B)
XA:12	(GB:1 B)	XG:1	(AA:1 A)	XL:15	(BA:1 D)
XA:13	(GB:1 B)	XH:1	(AA:2 A)	XL:16	(BA:1 D)
XA:14	(GB:1 B)	XJ:1	(GM:2 C)	XL:17	(BA:1 D)
XA:15	(GB:2 B)	XJ:2	(GM:1 D)	XL:18	(BA:1 D)
XA:16	(GB:2 B)	XJ:3	(HG:0 B)	XM:1	(AA:1 C)
XA:17	(GB:2 B)	XJ:4	(GQ:1 A)	XM:2	(AA:1 C)
XA:18	(GB:2 B)	XJ:6	(HG:0 B)	XM:3	(AA:1 C)
XC:1	(BM:2 C)	XJ:7	(GQ:2 A)	XM:4	(AA:1 C)
XC:2	(IS:0 D)	XJ:8	(IM:1 B)	XM:5	(AA:2 C)
XC:3	(IH:2 C)	XJ:9	(IM:1 B)	XM:6	(AA:3 C)
XC:4	(HP:0 E)	XJ:10	(GA:0 B)	XM:7	(AA:3 C)
XC:5	(HG:0 D)	XJ:11	(IM:0 B)	XM:8	(AA:3 C)
XC:5	(HY:2 D)	XJ:12	(BA:1 B)	XM:9	(AA:3 C)
XC:6	(BU:2 C)	XJ:13	(GA:0 B)	XM:10	(AA:3 C)
XC:7	(BM:1 E)	XJ:14	(IH:1 B)	XM:11	(AA:2 B)
XC:8	(AE:2 C)	XJ:15	(BA:0 B)	XM:12	(BI:3 B)
XC:8	(NK:1 D)	XJ:16	(IH:2 B)	XM:13	(AA:2 B)
XC:9	(DB:1 E)	XJ:17	(IH:1 B)	XM:14	(AA:2 B)
XC:9	(DM:0 E)	XJ:18	(IH:2 B)	XM:15	(BI:3 B)
XC:10	(HP:1 E)	XK:1	(BA:0 B)	XM:16	(AA:2 B)
XC:11	(BU:0 B)	XK:2	(HY:0 B)	XM:17	(AA:2 B)
XC:12	(KI:1 C)	XK:3	(GM:3 B)	XM:18	(BI:3 B)
XD:1	(BU:0 B)	XK:4	(BA:0 B)	XO:1	(AA:1 A)
XD:2	(CU:1 D)	XK:5	(HY:0 B)	XS:1	(AA:2 A)
XD:4	(EE:4 D)	XK:6	(GM:1 D)	XT:1	(AA:1 A)
XD:4	(EI:4 D)	XK:7	(BA:0 A)		
XD:4	(EM:2 B)	XK:8	(BA:0 B)		
XD:5	(DU:2 E)				

List of components

A01	Fuse and Relay Centre (1000)	A33B	Tachograph (/BN:1 B) (1006)
A02P	Fuse holder, 6–fuses (ME:2 C) (1000)	A34B	Control unit, climate unit (HG:0 B) (1000)
A02x	Fuse holder, 6–fuses (ME:3 C) (1000)	A35	Control unit, remote receiver, door lock (IM:0 B) (1000)
A03	Instrument cluster (BI:0 B) (1000)		
A04A	Refrigerator (IQ:3 C) (1007B)	A36	Control unit, BBM (Body Builder Module) (NC:1 B/NU:1 B) (1000)
A04B	Refrigerator (IQ:3 C) (1460)		
A05	Display, FMS (Fleet Management System) (BU:2 D/IZ:0 D) (1000)	A39	Control unit, camera (IZ:0 C) (1000)
A06L	El. adjustable seat (IA:2 B) (1007A)	A40 HID	Fuse holder, 3–fuses (GB:0 D) (1000)
A06R	El. adjustable seat (IA:0 B) (1007B)	A41	Component group transmission. Contains B23, B06 and Y17 (DN:0 D/DE:0 C/DM:2 B) (1403/1499)
A07	Radio (IU:0 B) (1000)		
A08	Control unit, GPS receiver (Global Positioning System) (BU:2 D) (1000)	A42	Component group transmission. Contains B26, Y21, Y22, Y23 and Y26 (DN:2 D/DE:2 C) (1494/1499)
A09	Telephone (IX:0 C) (1000)		
A10	CD player (IU:3 B)	A43	Electric fan control (B32 fan speed sensor, Y35 visco clutch) (CO:1 D) (1030)
A11	Control unit, door lock (IM:1 B) (1000)		
A12A	Control unit, ABS (Anti-lock Brake System) (EI:0 B) (1007C)	A44	Fuel filter bracket (B51 fuel pressure sensor, M15 priming pump) (CO:2 D) (1030)
A12B	Control unit, ABS (Anti-lock Brake System) (EE:0 B) (1007C)	A45	Fuel pre filter (B52 water level sensor, R10 heater, Y38 water drain solenoid (CO:3 B) (1030)
A13A	Control unit, TECU (automatic transmission) (DE:0 C)	A54	Control unit, Coolant level (CS:2 D)
A13B	Control unit, TECU (automatic transmission) (DI:0 B) (1007C)	B02A	Thermostat, parking heater (HI:1 B) (1006A/1006E)
A13C	Control unit, TECU (automatic transmission) (DM:0 C) (1007C)	B02B	Thermostat, parking heater (HI:1 B) (1006A/1006E)
A13D	Control unit, TECU (automatic transmission) (DN:0 B)	B02C	Thermostat, parking heater (HM:3 B) (1006A/1006E)
A14	Control unit, EMS (Engine Management System) (CO:0 C/CS:2 C) (1030)	B02D	Thermostat, parking heater (HM:3 C) (1006A/1006E)
A15	Control unit, SRS (Supplementary Restrain System) (IS:0 B) (1000)	B03	Sensor, footbrake valve (EM:0 D) (1504)
A16	Control unit, ECS (Electronic Controlled air Suspension) (FA:0 C/FG:0 D) (1007C)	B04	Sensor, engine speed, crankshaft (CO:0 D) (1030)
A17	Control unit, VECU (Vehicle ECU) (BA:0 C) (1000)	B05	Sensor, engine speed, camshaft (CO:0 D) (1030)
A18	Control unit, roof hatch (IQ:0 C) (1006E)	B06	Sensor, air pressure, air tank (BA:2 D) (1000)
A19A	Control unit, GECU (gear selector ECU) (DB:1 C) (1007A/1007B/1484)	B06A	Sensor, air pressure, air tank (DE:0 D) (1000)
A19C	Control unit, GECU (gear selector ECU) (DB:2 C) (1007A/1007B/1484)	B07	Sensor, fuel level (BI:2 C) (1040)
A20	Control unit, Immobiliser (IM:3 D) (1000)	B08	Sensor, input shaft speed, gearbox (DE:3 B)
A21	Control unit, EBS (Electronic Brake System) (EM:0 C) (1007C)	B09A	Sensor, oil temperature, gearbox (DE:2 D)
A22	Control unit, FMS (Fleet Management System) (BU:0 C/IZ:3 B) (1000)	B09B	Sensor, oil temperature, gearbox (BI:2 C) (1494)
A23	Control unit, FMS, TMC (Traffic Message Channel) (BU:3 B) (1000)	B10	Sensor, oil level (CO:0 C) (1030)
A24	Control unit, information module trailer without ABS (CP:3 C) (1000)	B10B	Sensor, oil level (FP:0 C) (1493)
A25	Control unit, ESP (Electronic Stability Program) (EQ:0 C) (1007C)	B12	Sensor, tachograph/speedometer (BM:2 D) (1494)
A27	Control unit, LCM (Light Control Module) (GB:0 C/GC:0 A/GA:0 B) (1000)	B12B	Sensor, tachograph/speedometer (BM:2 D) (1494)
A28	Control unit, ADR/TRS battery main switch (AE:0 D) (1435B)	B13	Sensor, wheel speed, lhs. 1:st front axle (EI:0 D/EE:0 D/EN:0 D) (1086)
A29	Telephone handset, secrecy receiver (IX:1 B) (1000/1007A/1007B)	B14	Sensor, wheel speed, rhs. 1:st front axle (EI:1 D/EE:1 D/EN:1 D) (1086)
A30	Control unit, SWM (Steering Wheel Module) (IS:1 C) (1000)	B15	Sensor, wheel speed, lhs. 1:st driven rear axle (EI:2 D/EE:2 D/EN:2 D) (1086)
A31	Control unit, burglar alarm (NK:0 C) (1000)	B16	Sensor, wheel speed, rhs. 1:st driven rear axle (EI:3 D/EE:3 D/EN:2 D) (1086)
A32	Control unit, parking heater (HM:0 C) (1062)	B17	Sensor, wheel speed, lhs. 2:nd driven rear axle (EN:3 D) (1086)
A33	Tachograph (BM:1 B) (1000)	B18	Sensor, wheel speed, rhs. 2:nd driven rear axle (EN:3 D) (1086)
		B19	Sensor, wheel speed, lhs. 2:nd front axle (EN:0 D) (1086)
		B20	Sensor, wheel speed, rhs. 2:nd front axle (EN:1 D) (1086)
		B21	Sensor, coolant temperature, engine (CO:1 D) (1030)
		B22	Sensor, outdoor temperature (BI:2 C) (1504)
		B23A	Sensor, oil temperature, retarder (DE:1 D)
		B23B	Sensor, oil temperature, retarder (DI:0 D) (1494)

B24	Sensor, air pressure, bogie lift bellow (FA:0 D) (1072)	B69C	Sensor, coolant temperature, retarder (DN:0 D) (1403)
B25	Sensor, accelerator pedal (BA:4 D) (1000)	B70	Sensor, wheel speed, lhs., pusher axle (EN:2 C) (1086)
B25A	Sensor, accelerator pedal (BA:3 D) (1000)	B71	Sensor, wheel speed, rhs., pusher axle (EN:3 C) (1086)
B26A	Sensor, clutch position (DE:2 D)	B72	Sensor, wheel speed, lhs., tag axle (EN:3 C) (1086)
B27	Sensor, battery charging (BI:2 C) (1435A/1435B)	B73	Sensor, wheel speed, rhs., tag axle (EN:4 C) (1086)
B28	Sensor, chassi level, front axle (FA:1 D) (1072)	B74	Sensor, brake lining wear indicator, lhs., pusher axle (EN:2 C) (1086)
B29	Sensor, chassi level, lhs. rear axle (FA:1 D/EN:2 D) (1072)	B75	Sensor, brake lining wear indicator, rhs., pusher axle (EN:2 C) (1086)
B30	Sensor, chassi level, rhs. rear axle (FA:2 D) (1072)	B76	Sensor, brake lining wear indicator, lhs., tag axle (EN:3 C) (1086)
B31	Sensor, control lever unit, tipper (NR:1 B) (1007A/1007B)	B77	Sensor, brake lining wear indicator, rhs., tag axle (EN:3 C) (1086)
B34A	Sensor, gear position (DE:2 B)	B80	Handsfree, Loudspeaker, Microphone (IX:0 B)
B34B	Sensor, gear position (DE:3 B)	B90	Transmitter, movement sensor (NK:2 D) (1006B/1006E)
B35	Sensor, range gear position (DE:3 B)	B91	Receiver, movement sensor (NK:3 D) (1006B/1006E)
B36	Sensor, split gear position (DE:3 B)	D01	Time delay relay, bogie lift, axle load limiter (FK:3 B) (1007B)
B37	Sensor, boost pressure and boost temperature (CO:0 D) (1030)	E01	Lamp, full beams (GA:2 C/GA:3 C) (1502/1503)
B38	Sensor, oil pressure and oil temperature (CO:1 D) (1030)	E02	Lamp, dipped beams (GA:2 D/GA:3 D) (1502/1503)
B39	Sensor, air filter pressure and air filter temperature (CO:1 B/CS:1 D) (1030)	E03	Lamp, spot light (GA:1 C/GA:3 C) (1502/1503)
B40	Sensor, brake lining wear indicator, lhs. 1:st front axle (EN:0 D) (1086)	E04	Lamp, loading light (KE:0 D/GK:2 B) (1063)
B41	Sensor, brake lining wear indicator, rhs. 1:st front axle (EN:1 D) (1086)	E05	Lamp, 5:th wheel light (KE:0 D) (1063)
B42	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EN:1 D) (1086)	E06	Lamp, reversing light (GC:1 D/GC:2 D) (1040)
B43	Sensor, brake lining wear indicator, rhs. 1:st driven rear axle (EN:2 D) (1086)	E07	Lamp, fog light (GA:1 C/GA:3 C) (1502/1503)
B44	Sensor, brake lining wear indicator, lhs. 2:nd driven rear axle (EN:1 D) (1086)	E08	Lamp, parking light, front (GA:1 D/GA:3 D) (1502/1503)
B45	Sensor, brake lining wear indicator, rhs. 2:nd driven rear axle (EN:2 D) (1086)	E09	Lamp, brake light (GC:1 D/GC:2 D) (1040)
B46	Sensor, brake lining wear indicator, lhs. 2:nd front axle (EN:0 D) (1086)	E10	Lamp, tail light (GC:1 D/GC:2 D) (1040)
B47	Sensor, brake lining wear indicator, rhs. 2:nd front axle (EN:0 D) (1086)	E11LC	Lamp, side marker light (GC:0 D) (1077)
B49	Sensor, steering angle (EQ:0 D) (1000)	E11LF	Lamp, side marker light (GC:0 D) (1077)
B50	Sensor, yaw-rate (EQ:1 D) (1507)	E11LR	Lamp, side marker light (GC:1 D) (1077)
B54	Sensor, crank case pressure (CO:0 B) (1030)	E11LW	Lamp, side marker light (GC:0 D) (1077)
B55	Sensor, air pressure, suspension bellows, 3:th axle (FA:0 D) (1072)	E11RC	Lamp, side marker light (GC:3 D) (1077)
B56	Sensor, air pressure, suspension bellows, front axle (FA:0 D) (1072)	E11RF	Lamp, side marker light (GC:3 D) (1077)
B57	Sensor, air pressure, suspension bellows, lhs. rear (FA:0 D) (1072)	E11RR	Lamp, side marker light (GC:2 D) (1077)
B58	Sensor, air pressure, suspension bellows, rhs. rear (FA:1 D) (1072)	E11RW	Lamp, side marker light (GC:3 D) (1077)
B59	Sensor, indoor temperature (HG:1 B) (1000)	E12L	Lamp, roof position light (GA:4 C) (1006A)
B59B	Sensor, indoor temperature (HY:2 D) (1000)	E12R	Lamp, roof position light (GA:1 C) (1006A)
B60DD	Loudspeaker (IU:1 D) (1083)	E13	Lamp, direction indicator (GC:1 D/GC:2 D) (1040)
B60DP	Loudspeaker (IU:1 D) (1083)	E13F	Lamp, direction indicator (GA:2 C/GA:3 C) (1502/1503)
B60LF	Loudspeaker (IU:0 D) (1000)	E13L	Lamp, direction indicator (GA:2 C) (1502)
B60LR	Loudspeaker (IU:2 D) (1006D/1006E)	E13R	Lamp, direction indicator (GA:3 C) (1503)
B60RF	Loudspeaker (IU:1 D) (1000)	E14L	Lamp, beacon warning lamp (KM:0 D) (1047)
B60RR	Loudspeaker (IU:2 D) (1006D/1006E)	E14R	Lamp, beacon warning lamp (KM:1 D) (1047)
B61L	Loudspeaker, treble (IU:0 D) (1000)	E15	Lamp, cigarette lighter illumination (IQ:2 C) (1000)
B61R	Loudspeaker, treble (IU:1 D) (1000)	E16DS	Lamp, instep light (IH:2 C) (1083)
B64	Sensor, air pressure, valve unit gearbox (DE:1 D)	E16PS	Lamp, instep light (IH:2 C) (1083)
B67	Rear view camera (IZ:2 D) (1000)	E17L	Lamp, interior light (IH:1 C) (1006B/1006E)
B68	Sensor, output shaft speed, gearbox (DI:2 D) (1494)	E17R	Lamp, interior light (IH:1 C) (1006B/1006E)
B69A	Sensor, coolant temperature, retarder (DE:1 D)	E18C	Lamp, reading light (IH:0 C) (1006D)
B69B	Sensor, coolant temperature, retarder (DM:3 B) (1403)	E18L	Lamp, reading light (IH:0 C) (1006D/1006E)
		E18LB	Lamp, reading light (IH:0 C) (1006D/1006E)
		E18LC	Lamp, reading light (IH:0 C) (1006C/1006E)
		E18R	Lamp, reading light (IH:1 C) (1006D/1006E)
		E18RB	Lamp, reading light (IH:1 C) (1006D/1006E)
		E18RC	Lamp, reading light (IH:0 C) (1006C)

E19C	Lamp, identification light, roof (GA:0 D) (1006A/1436)	K22	Relay, climate fan, 1:st speed (by parking heater) (HY:1 B) (1000)
E19L	Lamp, identification light, roof (GA:0 D) (1006A/1436)	K23	Relay, cab tilt (KA:0 C) (1000)
E19R	Lamp, identification light, roof (GA:0 C) (1006A/1436)	K24	Relay, central lubrication (FU:0 B) (1000)
E20	Lamp, ashtray illumination (IQ:2 C) (1000)	K25	Relay, light sign (KI:1 C) (1000)
E21	Lamp, rear fog light (GC:1 D/GC:2 D) (1040)	K26A	Relay, foldable rearview mirror arm, Japan (IF:0 C) (1000)
E22	Lamp, roof sign illumination (KI:0 D) (1436)	K26B	Relay, foldable rearview mirror arm, Japan (IF:1 C) (1000)
E23	Lamp, luggage compartment illumination (IH:4 C) (1007A)	K27	Relay, gas discharge lamp, dipped beam, lhs (GB:0 D) (1000)
E24	Lamp, storage tray illumination (IQ:1 D) (1000)	K28	Relay, gas discharge lamp, dipped beam, rhs (GB:0 D) (1000)
E26L	Headlight module (GA:1 C) (1502)	K30	Relay, beacon warning light (KM:0 B) (1000)
E26R	Headlight module (GA:3 C) (1503)	K35	Relay, headlamp high pressure wash (GM:0 C) (1000)
E27L	Tail lamp module (GC:1 D) (1040)	K37A	Relay, parking light (NR:0 C)
E27R	Tail lamp module (GC:2 D) (1040)	K37B	Relay, parking light (NA:0 C)
E28	Parking heater (HI:0 C/HM:0 D) (1007A/1062)	K38	Relay, pressure selection, tipper trailer (NA:1 C)
E32ATC	Climate unit (HY:2 C) (1000)	K38A	Relay, pressure selection, tipper trailer (NR:1 C) (1000)
E32ECC	Climate unit (HG:1 C) (1000)	K38B	Relay, pressure selection, tipper trailer (NR:1 C) (1000)
E33LC	Lamp, additional load lamps (revers lamps) (NA:0 D) (1506A)	K39A	Relay, prepared wirings for body-builder (auxsw-6) A (NR:2 C)
E33LR	Lamp, additional load lamps (revers lamps) (NA:0 D) (1506A)	K39B	Relay, prepared wirings for body-builder (auxsw-6) A (NA:1 C)
E33RC	Lamp, additional load lamps (revers lamps) (NA:1 D) (1506A)	K40A	Relay, prepared wirings for body-builder (auxsw-6) B (NR:3 C)
E33RR	Lamp, additional load lamps (revers lamps) (NA:1 D) (1506A)	K40B	Relay, prepared wirings for body-builder (auxsw-6) B (NA:2 C)
E34	Lamp, bodybuilder-centre light (IH:2 D) (1000)	K41A	Relay, prepared wirings for body-builder (auxsw-6) C (NR:3 C)
G01A	Battery (AA:0 C/AE:0 C/CS:0 C)	K41B	Relay, prepared wirings for body-builder (auxsw-6) C (NA:3 C)
G01B	Battery (AA:0 D/AE:0 D/CS:0 D)	K42	Relay, spotlights (NI:1 B) (1000)
G02	Alternator (AA:2 D/AE:3 D/CS:1 D) (1025)	K43	Relay, external engine start (NC:3 C) (1000)
H01	Horn, air-operated (GQ:0 B) (1502)	K45	Relay, prepared wirings for body-builder (NU:2 B) (1000)
H02	Horn (GQ:1 B) (1502)	K48	Power relay, engine preheating (CM:2 B) (1435A/1435B)
H03	Reverse warner, acoustic (GC:1 D/GC:2 D) (1040)	K49	Power relay, bogie lift motor (FK:3 D) (1037)
H06	Siren (NK:3 D) (1502/1503)	K51	Power relay, battery main switch (AA:0 C/CS:0 C) (1435A)
K1	Relay, starting switch, radio position (AA:3 B) (1000)	K52	Power relay, ADR battery main switch (AE:0 B) (1435B)
K2	Relay, EMS (Engine Management System) (BA:1 A) (1000)	K54	Relay, 12V ABS Trailer (CP:2 D) (1435B)
K3	Relay, starter motor (AA:1 C) (1000)	L01	Reactor, light sign illumination (KI:0 D)
K3B	Relay, starter motor, Cummins (CS:1 C)	L01L	Reactor, light sign illumination (KI:2 C)
K4	Relay, bodybuilder fuse box (kl.15) (ME:2 A) (1000)	L01R	Reactor, light sign illumination (KI:2 D)
K5	Relay, automatic transmission (DB:1 A/DM:0 A) (1000)	M01	Motor, windscreen wiper (GM:2 C) (1504)
K6	Relay, fan climate unit (HY:0 B) (1000)	M02	Motor, windscreen washer pump (GM:0 D) (1503)
K7	Relay, intermittent wiper (GM:1 C) (1000)	M03	Motor, headlamp high pressure washer pump (GM:1 D) (1503)
K8	Relay, gearbox area inhibitor (BA:1 A) (1000)	M04	Motor, starter motor (AA:0 D/AE:2 D/CS:0 C) (1025)
K9	Relay, interior lamps (IH:1 A) (1000)	M05	Motor, hydraulic bogie lift pump unit (FK:3 C) (1037)
K10	Relay, fifth wheel-, working-light (KE:0 C) (1000)	M06DS	Motor, window winder (IE:2 C) (1083)
K11	Relay, air suspension (FA:4 B) (1000)	M06PS	Motor, window winder (IE:3 C) (1083)
K12	Not used (ME:4 B) (1000)	M08	Motor, levelling control, headlights (GA:1 C/GA:3 C) (1502/1503)
K13	Relay, alternator controled (AA:4 C) (1000)	M09DS	Motor, door lock (IM:1 D) (1083)
K14	Time delay relay, bogie lift, A-ride (FK:1 C) (1000)	M09PS	Motor, door lock (IM:2 D) (1083)
K15	Time delay relay, bogie lift, A-ride, with axle load limiter (FK:2 C) (1000)		
K16	Relay, bogie lift, A-ride, with axle load limiter (FK:1 C) (1000)		
K17	Relay, 3:rd axle lock, self steered axle (FM:0 C) (1000)		
K18	Relay, hydraulic steered axle (FP:1 B) (1000)		
K19	Relay, 3:rd axle lock, self steered axle (FM:1 C) (1000)		
K20	Relay, D+ short-circuit, (ADR-trucks only) (AE:4 D) (1000)		
K21	Relay, el. adjustable seat (IA:2 B) (1000)		

M10	Motor, roof hatch (IQ:0 E)	S28	Switch, power take off (DQ:0 B) (1000)
M11	Motor, cab tilt pump (KA:0 D) (1502/1503)	S28A	Switch, power take off (NC:0 B/NU:0 B) (1000)
M13	Motor, coolant pump, parking heater (HP:0 C) (1062)	S30	Switch unit, multi-function display (BI:3 C) (1000)
		S31	Switch, TCS (Traction Control System) (EM:1 B) (1000)
M14	Motor, central lubrication pump (FU:0 C) (1401)		
M17	Motor, foldable rearview mirror arm, Japan (IF:0 D) (1470)	S33	Switch, trailer brake (EM:0 B) (1000)
		S34	Switch unit, steering wheel push buttons (IS:1 D) (1000)
R01	Heater, engine preheat (CO:3 B) (1030)		
R02L	Heater, rear-view mirror (IE:0 D) (1504)	S36DS	Switch unit, door functions (IE:0 B) (1083)
R02R	Heater, rear-view mirror (IE:1 D) (1504)	S36PS	Switch unit, door functions (IE:3 B) (1083)
R04	Cigarette lighter (IQ:2 C) (1000)	S37	Switch, rear view camera, camera activation (IZ:1 B) (1000)
R05	Heater, air dryer (FQ:0 C) (1056)		
R08	Termination resistor, CAN-bus (XB:2 D/CS:3 B)	S38	Switch, ADR, emergency switch, cab (AE:1 B) (1000)
R11	Heater, coffee maker (ME:1 B) (1000)		
R12	Current limiter, tachograph (AE:0 D) (1435B)	S39	Switch, ADR, emergency switch, exterior (AE:1 C) (1007A/1007B)
R13	Resistor, LCP headlight adjust (GU:1 B) (1000)		
R14B	Termination resistor (DI:3 D)	S39B	Switch, ADR, emergency switch, exterior (AE:2 C)
R17	Resistor (AA:3 C/AE:3 D) (1000)	S40	Switch, rear view camera, camera selection (IZ:2 B)
S01	Switch, main lighting, selector type (GA:0 A/GU:1 B) (1000)	S41	Switch, battery main switch control (AA:0 C) (1435A)
S02	Stalk switch, full-/dipped beam, direction indicator (GA:2 B) (1000)	S42	Switch, pressure selector, power take off (NR:1 B) (1000)
S03	Switch, loading lamps/working lamps (KE:1 B) (1000)	S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)
S03B	Switch, loading lamps/working lamps (NR:0 B)	S45R	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)
S04	Switch unit, climate fan (HY:1 B) (1000)		
S05A	Switch, interior light, selector type (IH:3 B) (1000)	S46	Pressure switch, bogie lift indicator, NO. (FK:3 E) (1037)
S05B	Switch, interior light, selector type (IH:3 B) (1006D/1006E)	S47	Position switch, low split indicator, NO. (BI:1 D) (1494)
S06	Stalk switch, windscreen wiper, selector type (GM:3 B) (1000)	S48A	Pressure switch, brake light, NO. (GB:3 B) (1401)
S07	Switch, engine brake, selector type (BA:3 B) (1000)	S48B	Pressure switch, brake light, NO. (GB:3 B) (1401)
S07A	Switch, engine brake, selector type (CP:0 B) (1000)	S48C	Pressure switch, brake light, NO. (GB:3 A) (1000)
S07B	Switch, engine brake, selector type (CP:1 B) (1000)	S49	Position switch, reverse lamps, NO (GB:3 D) (1494)
S08	Switch, differential gear lock, rear wheels (DU:0 B) (1000)	S50	Pressure switch, exhaust pressure governor, NC. (BA:1 D) (1000)
S09	Switch, differential gear locks, inter axles and rear wheels, selector type (DU:1 B) (1000)	S52L	Proximity switch, cab lock, NO. (BI:3 C) (1007A)
S10	Switch, sign light, roof (KI:1 B) (1006A)	S52R	Proximity switch, cab lock, NO. (BI:3 D) (1007B)
S11	Switch, bogie lift, selector type (FK:0 B) (1000)	S53	Position switch, front-wheel drive indication, NO. (DU:4 C) (1458)
S11A	Switch, bogie lift, selector type (FA:3 B) (1000)		
S11B	Switch, bogie lift, selector type (NR:4 B) (1000)	S54	Position switch, differential gear lock, front-wheels, NO. (DU:4 C) (1458)
S14A	Switch, push button, horn (GQ:1 D)	S55	Thermal switch (HP:0 C) (1062)
S14B	Switch, push button, horn (GQ:1 D)	S56	Thermal switch, bogie lift, NC (FK:3 D) (1037)
S15	Switch, ignition, selector type (AA:2 B/AE:0 B) (1000)	S57L	Position switch, luggage compartment lighting, NC. (IH:4 D) (1007A)
S16	Switch, push button, air horn (GQ:21 D)	S57R	Position switch, luggage compartment lighting, NC. (IH:3 D) (1007B)
S17	Switch, front wheel drive (DU:2 B) (1000)		
S18	Switch, differential gear lock, front (DU:2 B) (1000)	S58	Position switch, clutch pedal, NO. (BA:3 D) (1000)
S19	Switch, extra (NA:2 B)	S59	Position switch, brake pedal, NO. (BA:3 D) (1000)
S19C	Switch, extra (NR:2 B) (1000)	S60	Pressure switch, oil, power steering, NC. (FP:0 C) (1493)
S20	Switch, 3:rd axle lock (FM:0 B) (1000)		
S20B	Switch, 3:rd axle lock (NR:3 B) (1000)	S60A	Pressure switch, oil, power steering, NC. (BI:0 D) (1493)
S21A	Switch, parking heater (HI:2 B/HM:2 B) (1000)	S60B	Pressure switch, oil, power steering, NC. (BI:1 D) (1493)
S21B	Switch, parking heater (HI:3 B/HM:3 B) (1006D/1006E)		
S23	Switch, roof hatch, selector type (IQ:0 B) (1006A)	S63	Position switch, low range gear (BA:0 B) (1494)
S24	Stalk switch, retarder, selector type (BA:3 B) (1000)	S64	Pressure switch, air pressure, parking brake tank, NC. (EM:4 B) (1000)
S25	Switch unit, cruise control (BA:2 B) (1000)		
S26A	Switch, cab tilt pump (KA:0 B) (1000)	S66L	Switch unit, ECS (electronic controlled susp.), full air suspension (FA:2 D) (1007A/1007B)
S26B	Switch, cab tilt pump (KA:0 D) (1502/1503)		
S27	Switch, storage tray illumination (IQ:1 C) (1000)		

S66R	Switch unit, ECS (electronic controlled susp.), full air suspension (FA:4 D) (1007A/1007B)	X07B	Socket, 12V (IR:1 D) (1000)
S68	Sensor, coolant level (CO:1 C/CS:3 D) (1030)	X08	Contact reel, air bag (IS:0 C) (1000)
S69	Proximity switch, bogie lift position, NO. (FK:1 D) (1037)	X09	Slip contact, horn (GQ:1 C) (1000)
S70	Position switch, flow sensor, power-steering, NC. (BI:1 D) (1493)	X10	B+ pass through, cab (AA:0 A) (1000)
S70A	Position switch, flow sensor, power-steering, NC. (FP:1 C) (1493)	X11	Power connector, engine (AA:0 D/AE:2 C/CS:0 D)
S71	Pressure switch, compressor charging, NO. (BA:0 D) (1056)	X12	Power connector (CO:3 B/CM:3 C)
S72	Switch, water separator draining (CU:0 B) (1000)	X14	B+ connector, Engine ISX (CS:1 B)
S73	Switch, acoustic reverse warning (GC:3 A) (1006A)	X25	Power connector, bogie lift/extra equipment (AA:0 B)
S74	Switch, short stop cab heater (HP:0 B) (1000)	Y02	Solenoid valve, differential lock, rear wheels (DU:1 D) (1401)
S75	Switch, beacon warning light (KM:0 B) (1000)	Y03	Solenoid valve, differential lock, inter axles, rear (DU:1 D) (1401)
S76	Switch, spotlights (NA:4 B)	Y05	Solenoid valve, bogie lift (FK:0 D) (1037)
S76A	Switch, spotlights (NI:2 C) (1006A)	Y06	Solenoid valve, range inhibitor (BA:0 B) (1494)
S78	Switch unit, TIS (Traffic Information System) (BU:2 B) (1000)	Y08	Solenoid valve, front-wheel drive (DU:2 D) (1458)
S79A	Switch, additional work lamps (revers lamps), manual turn on (NA:1 B)	Y09	Solenoid valve, differential lock, front axle (DU:2 D) (1458)
S79B	Switch, additional work lamps (revers lamps), manual turn on (NA:1 B)	Y10	Solenoid valve, 3:rd axle lock (FM:0 D)
S79D	Switch, additional work lamps (revers lamps), manual turn on (NA:01 B)	Y11	Solenoid valve unit, ABS, lhs. front (EE:0 D/EI:0 D) (1086)
S80	Position switch, front hatch (NK:1 D) (1504)	Y12	Solenoid valve unit, ABS, rhs. front (EE:1 D/EI:1 D) (1086)
S83	Switch, container lock (NA:3 B)	Y13	Solenoid valve unit, ABS, lhs. rear (EE:2 D/EI:2 D) (1086)
S84	Switch, tachograph mode (BN:0 C) (1006)	Y14	Solenoid valve unit, ABS, rhs. rear (EE:3 D/EI:3 D) (1086)
S86	Switch, foldable rearview mirror arm, Japan (IF:1 B) (1000)	Y17A	Solenoid valve, retarder (DE:0 D)
S88L	Position switch, door, NC (NK:0 D) (1007A)	Y17B	Solenoid valve, retarder (DI:2 D) (1494)
S88R	Position switch, door, NC (NK:0 D) (1007B)	Y18	Solenoid valve, PTO (Power Take Off) (DE:2 B) (1499)
S95	Switch, Panic alarm (NK:2 A) (1000)	Y18A	Solenoid valve, PTO (Power Take Off) (DQ:0 D) (1401)
S96	Switch, Reduced set, Alarm (NK:2 B) (1000)	Y18B	Solenoid valve, PTO (Power Take Off) (DI:0 C) (1494)
U01	Modulator, EBS, left front (EN:0 C) (1086)	Y18C	Solenoid valve, PTO (Power Take Off) (NC:0 D/NU:0 D)
U02	Modulator, EBS, right front (EN:0 C) (1086)	Y18G	Solenoid valve, PTO (Power Take Off) (DN:2 B) (1499)
U03	Modulator, EBS, rear axle (EN:1 C) (1086)	Y18H	Solenoid valve, PTO (Power Take Off) (DN:2 B) (1499)
U04	Modulator, EBS, pusher axle (EN:2 B) (1086)	Y21	Solenoid valve, slow clutch disengage (DE:2 D)
U05	Modulator, EBS, trailer (EM:2 B) (1401)	Y22	Solenoid valve, fast clutch disengage (DE:3 D)
U06	Voltage converter (CS:0 C)	Y23	Solenoid valve, fast clutch engage (DE:3 D)
U06B11	Voltage converter (IR:1 B) (1007C)	Y25	Solenoid valve unit, level control, air suspension (FA:1 B) (1072)
U06R11	Voltage converter (IR:1 B) (1007C)	Y26	Solenoid valve, slow clutch control (DE:2 D)
U06R19	Voltage converter (IR:0 B) (1007C)	Y29	Solenoid valve unit, trailing axle (FA:2 B) (1072)
U07	Modulator, EBS, tag axle (EN:3 B) (1086)	Y30A	Solenoid valve unit, gearbox (DE:0 B)
U10	Voltage converter, 12V ABS Trailer (CP:4 B)	Y30B	Solenoid valve unit, gearbox (DE:1 B)
V02	Diode module (AE:2 B) (1000)	Y30C	Solenoid valve unit, gearbox (DI:0 D) (1494)
V03	Diode (EC:1 B)	Y31	Solenoid valve, area inhibitor (BA:1 B) (1494)
V04	Diode (FK:0 D) (1037)	Y32	Fuel dosing pump, parking heater (HI:0 B/HM:0 D) (1040)
V05	Diode (FK:2 D)	Y33	Solenoid valve, UI (Unit Injectors) (CO:2 D) (1030)
V06	Diode (FM:0 C)	Y36	Solenoid valve, steerable axle (FP:1 C) (1493)
V07	LED, indicator, Alarm (NK:2 C) (1000)	Y37	Solenoid valve unit, AVU (CO:2 B) (1030)
V08	Diode (NU:2 B) (1000)	Y39	Solenoid valve, VCB (CO:3 D) (1030)
V09	Diode (CP:4 B)	Y40	Solenoid valve unit, front axle, air suspension (FA:0 B) (1072)
V10	Diode (CP:3 C)	Y42	Clutch, magnetic, air conditioning compressor (HG:0 D/HY:2 D/CS:2 D) (1025)
V11	Diode (CP:3 C)	Y43L	Seat belt tensioner, pyrotechnical (IS:2 D) (1007A)
W02	Antenna, immobiliser (IM:3 C) (1000)	Y43R	Seat belt tensioner, pyrotechnical (IS:3 D) (1007B)
W03	Antenna, remote door lock (IM:0 B) (1000)	Y44	Air-bag, pyrotechnical (IS:0 D)
X01	Connector, vehicle diagnostics (XA:0 C) (1000)		
X01B	Connector, vehicle diagnostics (XA:0 C)		
X01C	Connector, vehicle diagnostics (XA:0 D)		
X02	Trailer connection, ABS/EBS (1063)		
X03	Trailer connection, 15-pole unit (1063)		
X04	Trailer connection, 7-pole unit, 24 N (1063)		
X05	Trailer connection, 7-pole unit, 24 S (1063)		
X06	Connector, 31-pole, in lhs. frame side, for body builder preparations (1505)		

Y45A	Solenoid valve unit, tipper body (NR:0 D) (1506B)	Y49	Solenoid valve, parking brake (GQ:0 B/NU:2 C) (1504)
Y45B	Solenoid valve unit, tipper body (NR:1 D) (1506B)		
Y45C	Solenoid valve unit, tipper body (NR:1 D) (1506B)	Y52	Clutch, magnetic, engine fan (CS:4 B)
Y45D	Solenoid valve unit, tipper body (NR:1 D) (1506B)		
Y48	Solenoid valve, container lock (NA:3 D) (1506A)		

Abbreviations

ABS	Antilock brake system	LHS	Left hand side
ACU	Alarm control unit	LR	Left rear
ADR-BAS1	ADR adaption, 1 switch	MECHTRAN	Mechanical transmission
ADR-BAS2	ADR adaption, 2 switches	PA-HYDRS	Hydraulic steered pusher axle
ATC	Automatic temperature control	PCB	Printed circuit board
AUS	Australia	PH-CAB	Cab parking heater
AUXSW-6	Wiring for six auxiliary switches for body building	PH-ENGCA	Engine and cab parking heater
AWD	All wheel drive	PSS-DUAL	Power steering system dual
BBM	Body builder module	PTO	Power take off
BBOX-R	Battery box right hand side	RADT-AR	6x2, leaf spring (A-ride)
CLU	Central locking unit	RCU	Remote control unit
CU-ACAUT	Air condition, automatic	RF	Right front
CU-ACMAN	Air condition, manual	RHD	Right hand drive
CU-BAS	Basic version with stepper motor without air condition	RHS	Right hand side
CU-ECC	Electronic controlled climate control air condition	RIGID	Plattform or tipper truck
CU-HEAT	Heater unit	RR	Right rear
CU-MCC	Manual controlled climate control air condition	SI-GRAF	Tachograph
EBS	Electronic brake system	SI-GRAFR	Tachograph
ECS	Electronic controlled air suspension	SI-SPEED	Speedometer
ELCE-CK	Electrical complete kit for body builder	SPEED-DU	Dual speed limiter
ENG-VE9	Volvo engine 9 liter	SRS	Supplementary restrain system
ENG-VE12	Volvo engine 12 liter	STWPOS-L	Steering wheel position left hand side
ESP	Electronic stability program	STWPOS-R	Steering wheel position right right hand side
GECU	Gear selector electronic control unit	SUSPL-EC	Air suspension, electronic control system levelling device
GSS-AGS	Automatic gear shifting system	SUSPL-M	Air suspension, manual regulation levelling device
HL-BASIC	Basic headlamps	SWAPBODY	Swap body
HL-HID	High intensity discharged headlamps	SWM	Steering wheel module
HYDRKIT	Hydraulic kit	TA-HYDRS	Hydraulic steered tag axle
ISX	Engine variant (Australia only)	TECU	Transmission electronic control unit
LCM	Light control module	TMC	Traffic message channel
L1H1	Short cab	TRACTOR	Semi-trailer tractor
L2H1	Long cab	TREL7-7	Trailer connectors 2x7-unit
L2H2	Long high cab (Globetrotter)	UADR	Without ADR adaption
LF	Left front	URETARD	Without retarder
LHD	Left hand drive	USUSPLEV	Without air suspension levelling device
		VECU	Vehicle electronic control unit

Cable colour code

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: Y/R = Yellow/Red.

VOLVO

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