

SERVICE INFORMATION

Volvo Truck Corporation



Wiring diagram

FM

CHID A749974-

CHID B664039-



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to July 13.

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

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

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

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

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

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

Volvo Truck Corporation
Göteborg, Sweden

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

Order number: 89062069

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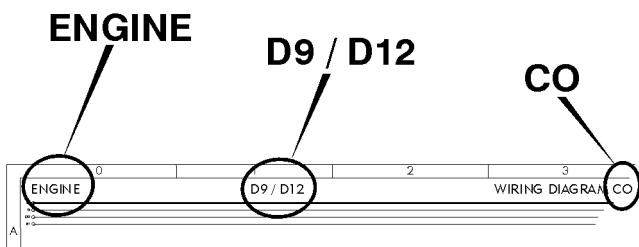
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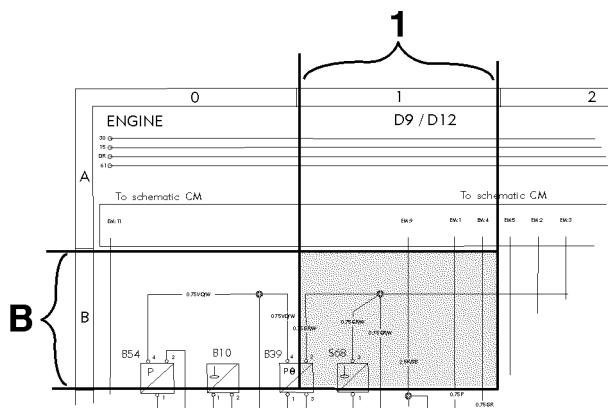
Example of wiring diagram

Component wiring diagram title, variant/subtitle and symbol.



T3016003

Coordinates (B 1).



T3016004

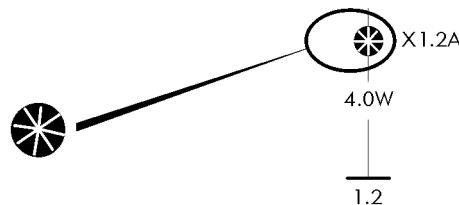
T3016037

30 Voltage battery, kl.30.

15 Voltage with starter key in drive position, kl.15.

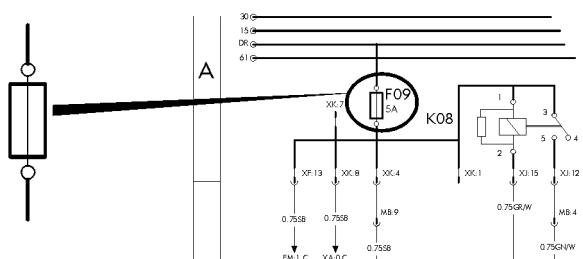
DR Voltage with starter key in drive position, preheat position and start position, kl.DR.

61 Voltage when alternator charges, kl.61.



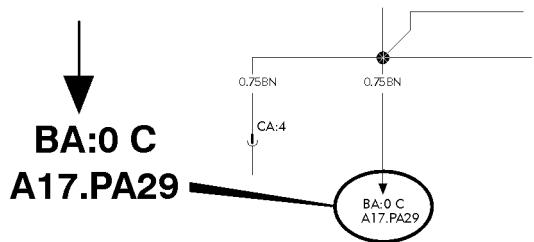
T3019437

Splice.



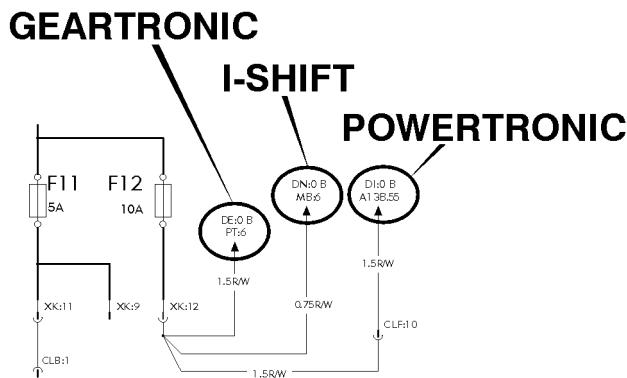
T3016006

Fuse.



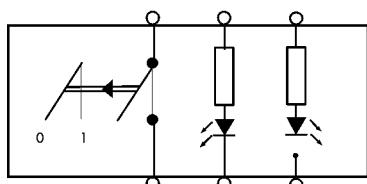
Reference arrow, for diagram BA, coordinates 0 C, component A17, connector PA pin 29.

T3016007

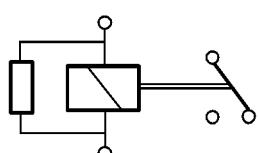


The maximum of variants are drawn, think about that all wires and components are not standard for all markets or vehicle models.

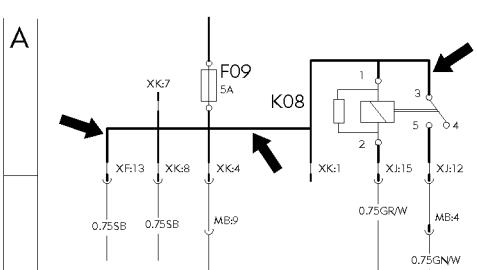
T3016008



T3016009

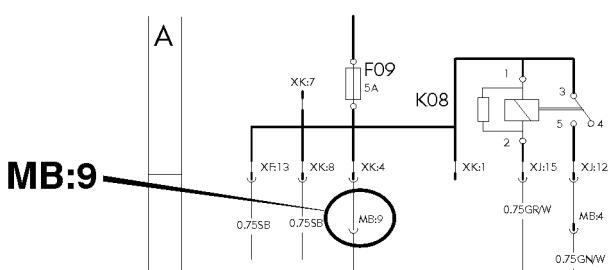


T3016010



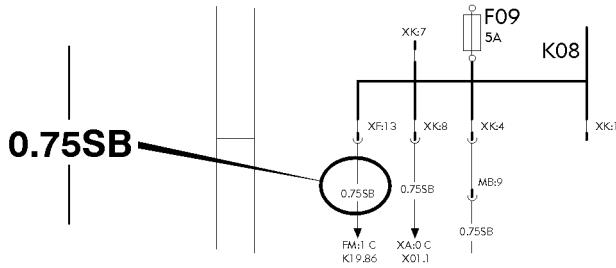
Conductor on circuit card.

T3016012

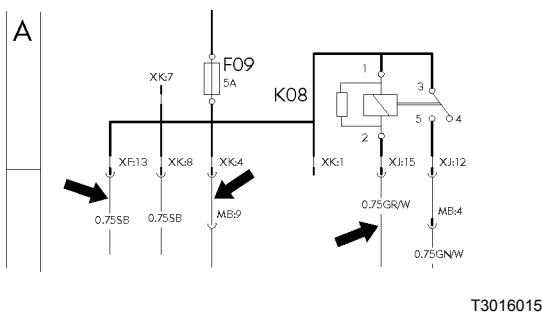


Connector MB terminal 9.

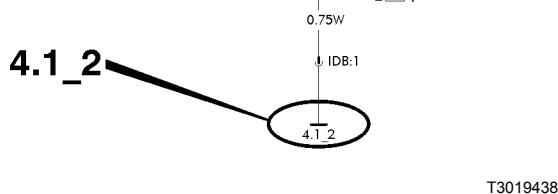
T3016013



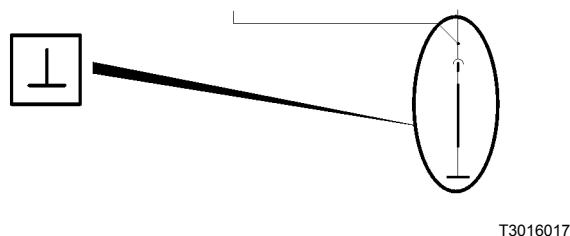
Wire area and colour.



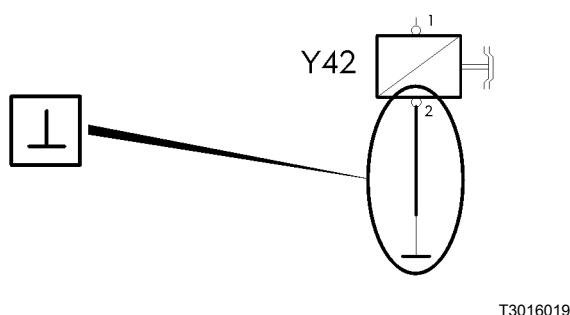
Thin lines, wires.



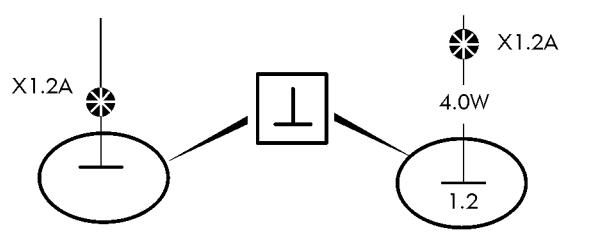
Earth connection point 4, earth connection 1 and wire 2.



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.

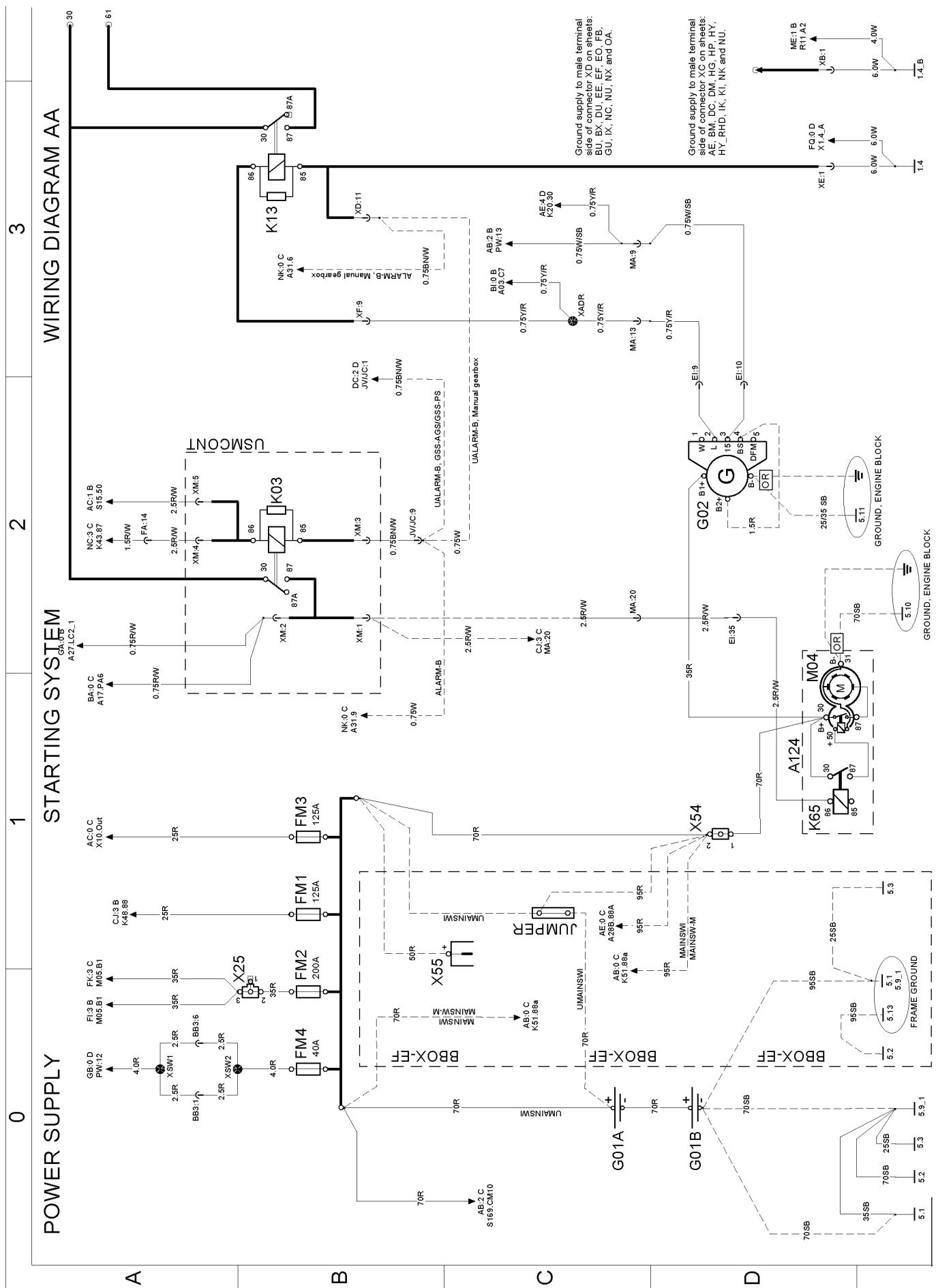
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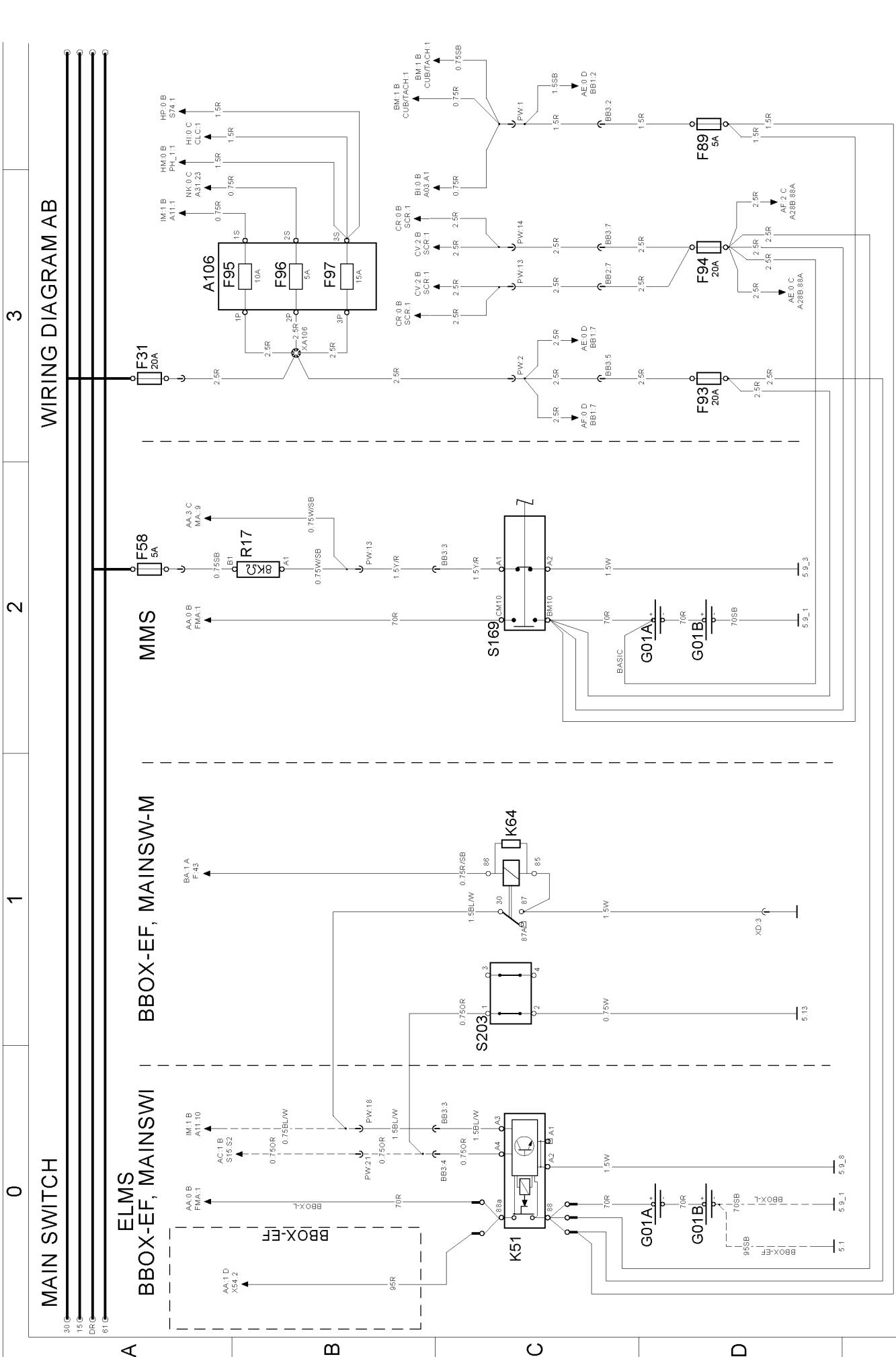
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Component wiring diagrams



MAIN SWITCH



POWER DISTRIBUTION

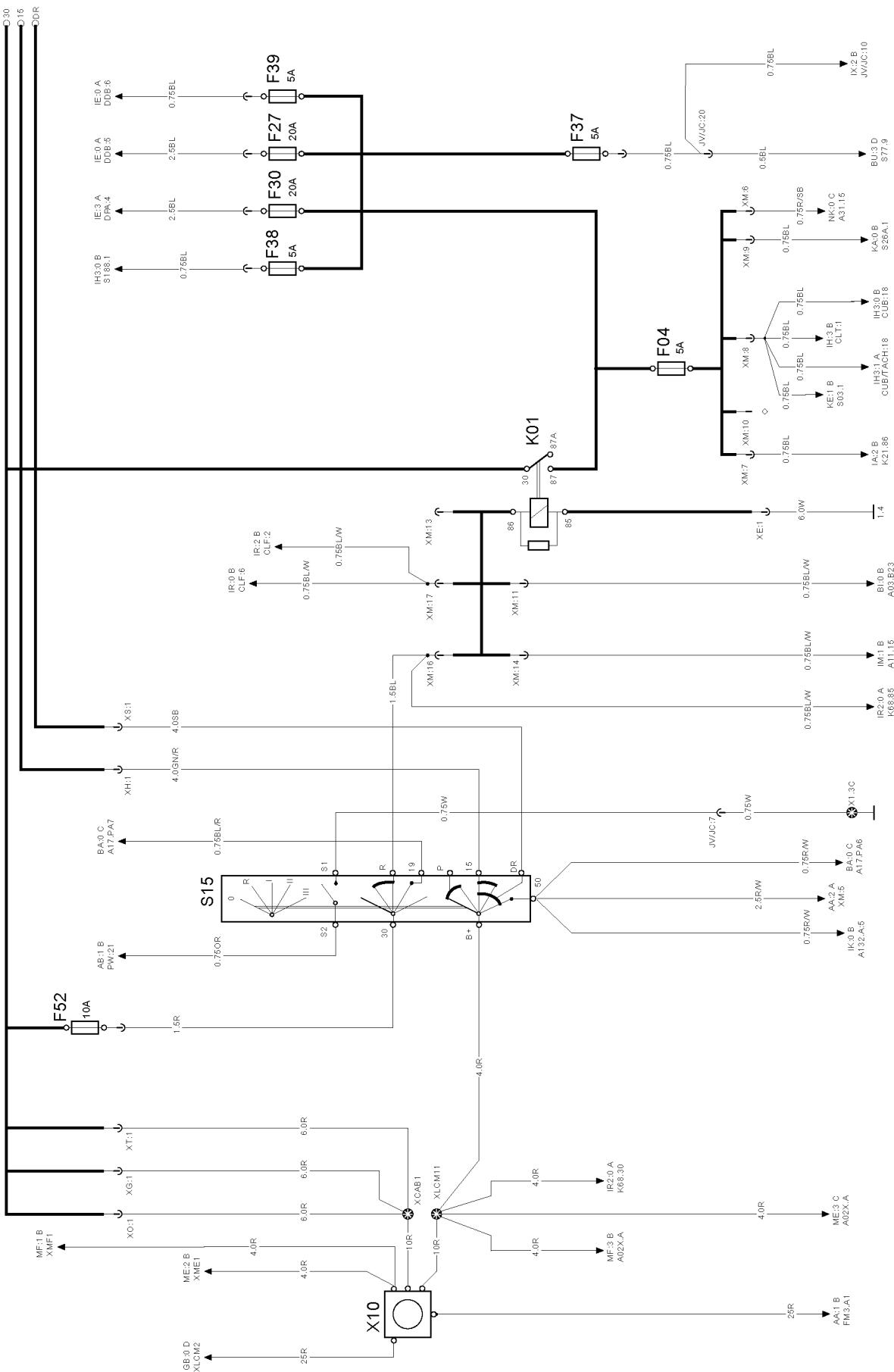
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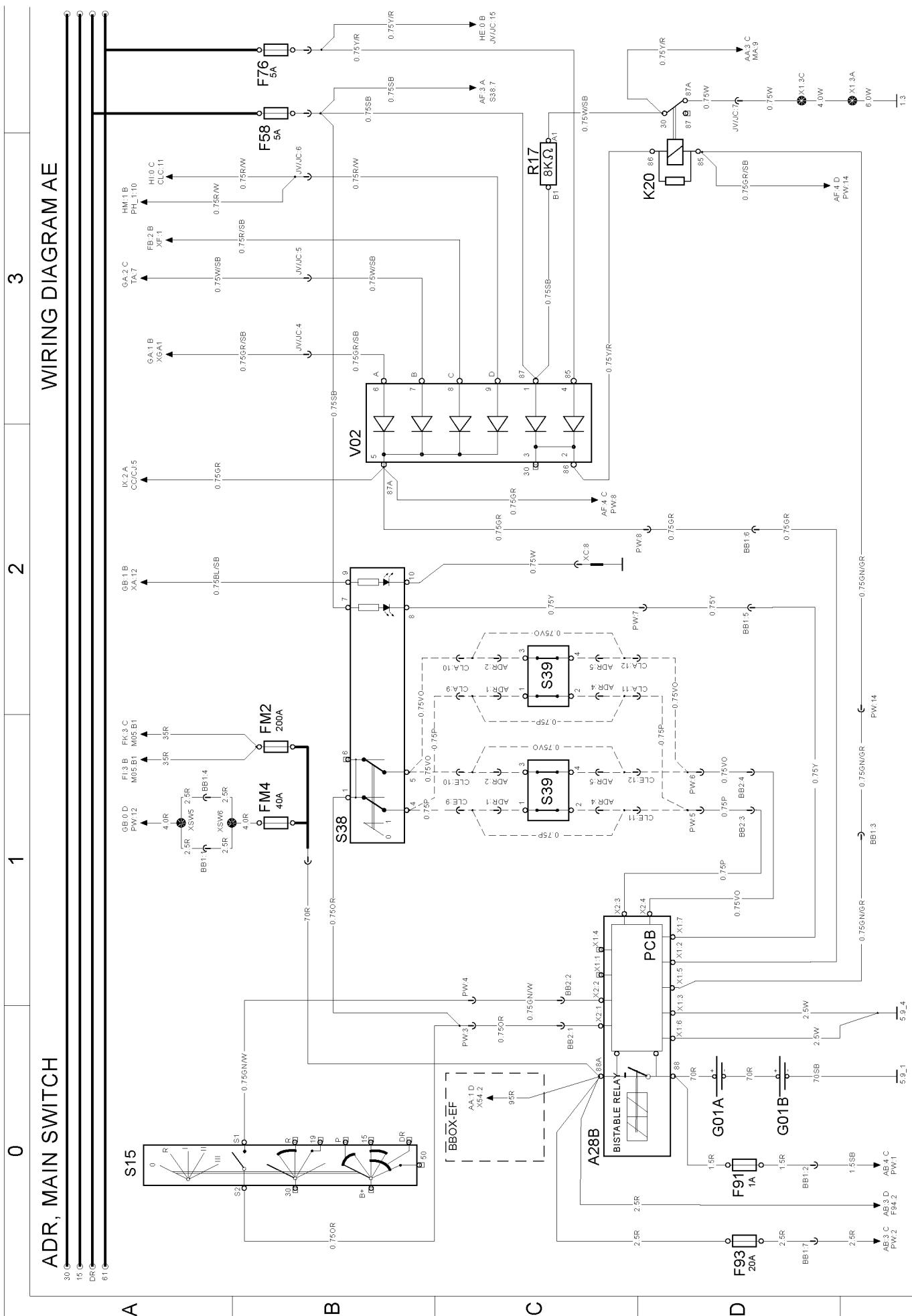
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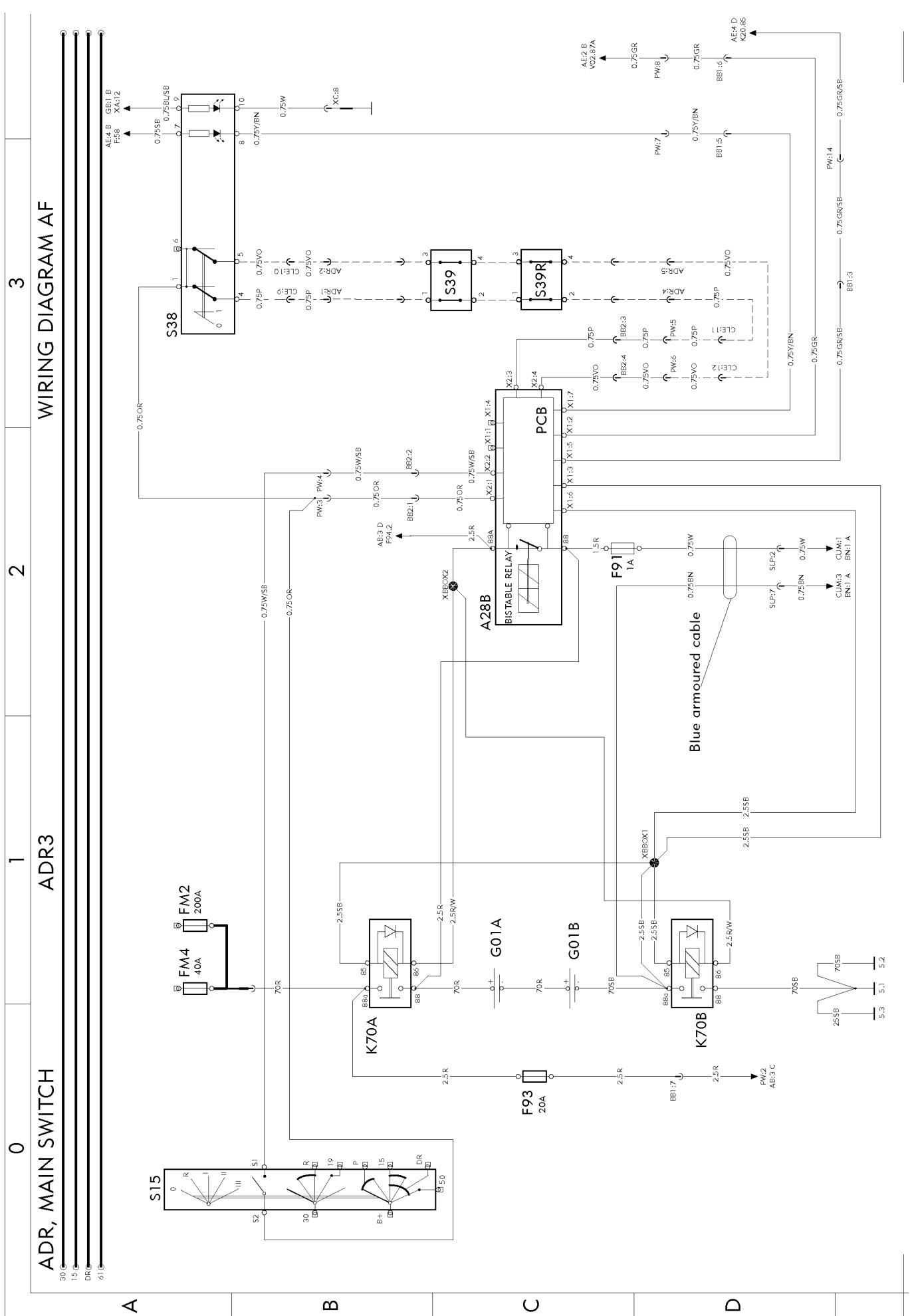
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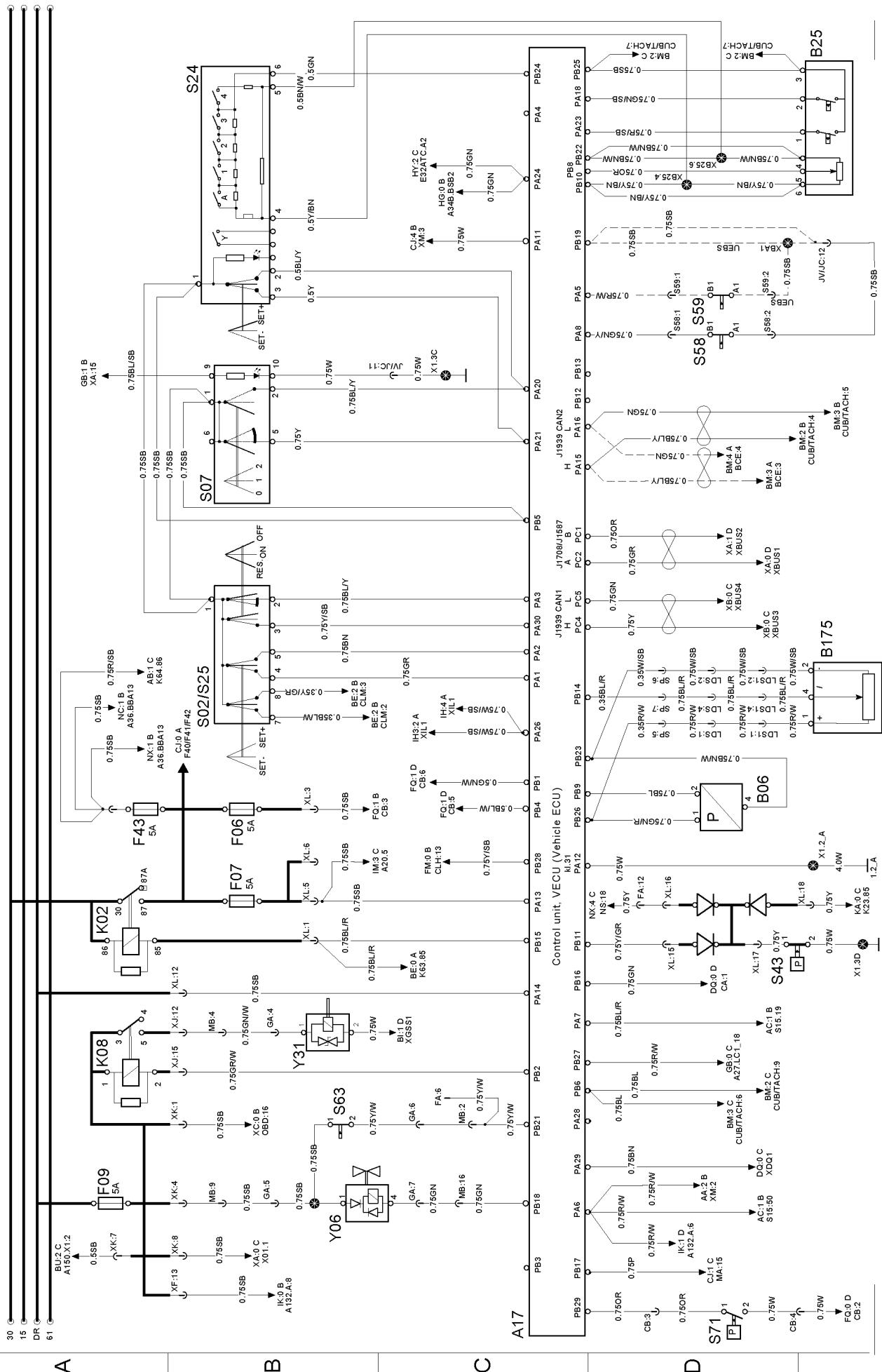
WIRING DIAGRAM AC

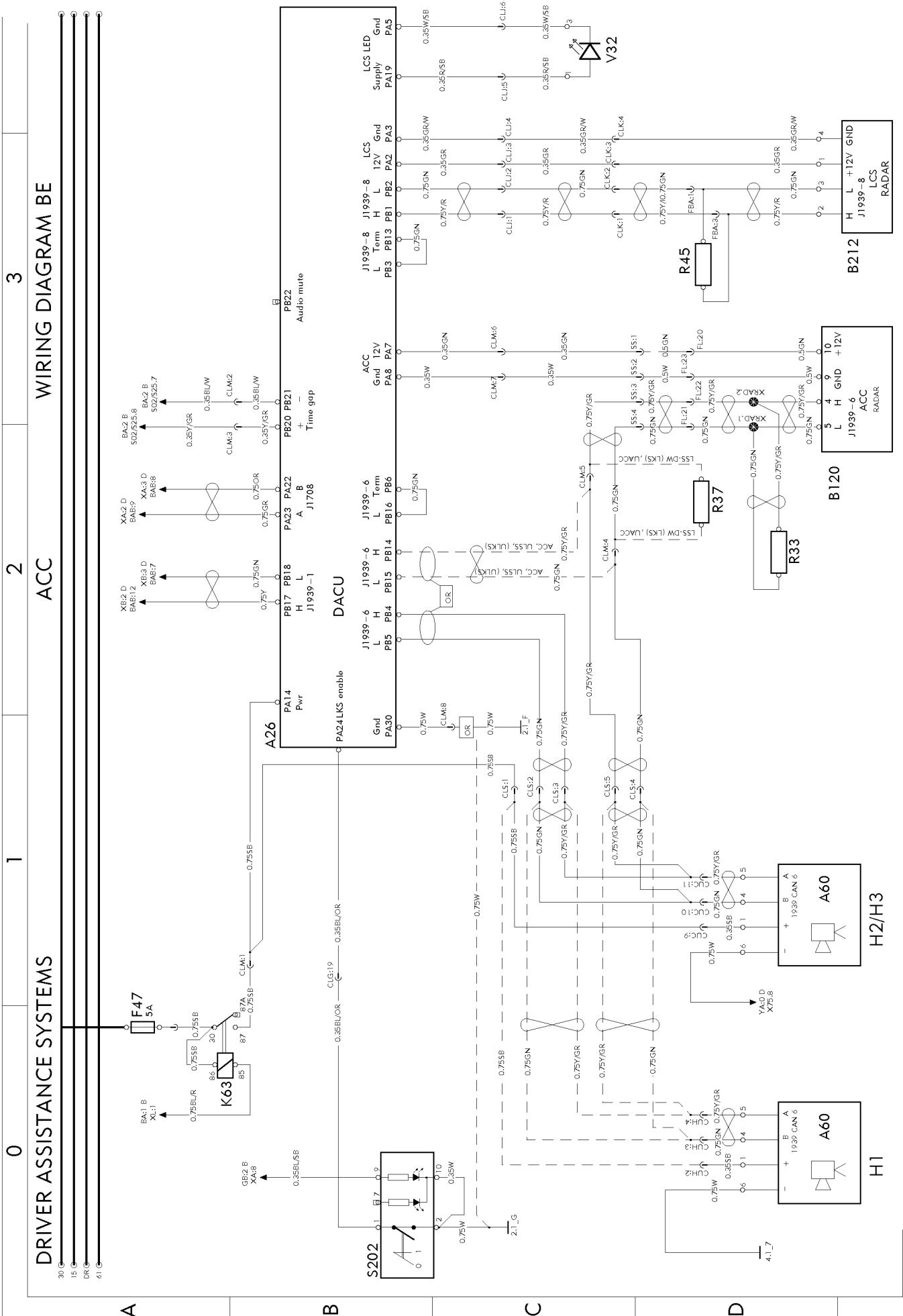






WIRING DIAGRAM BA

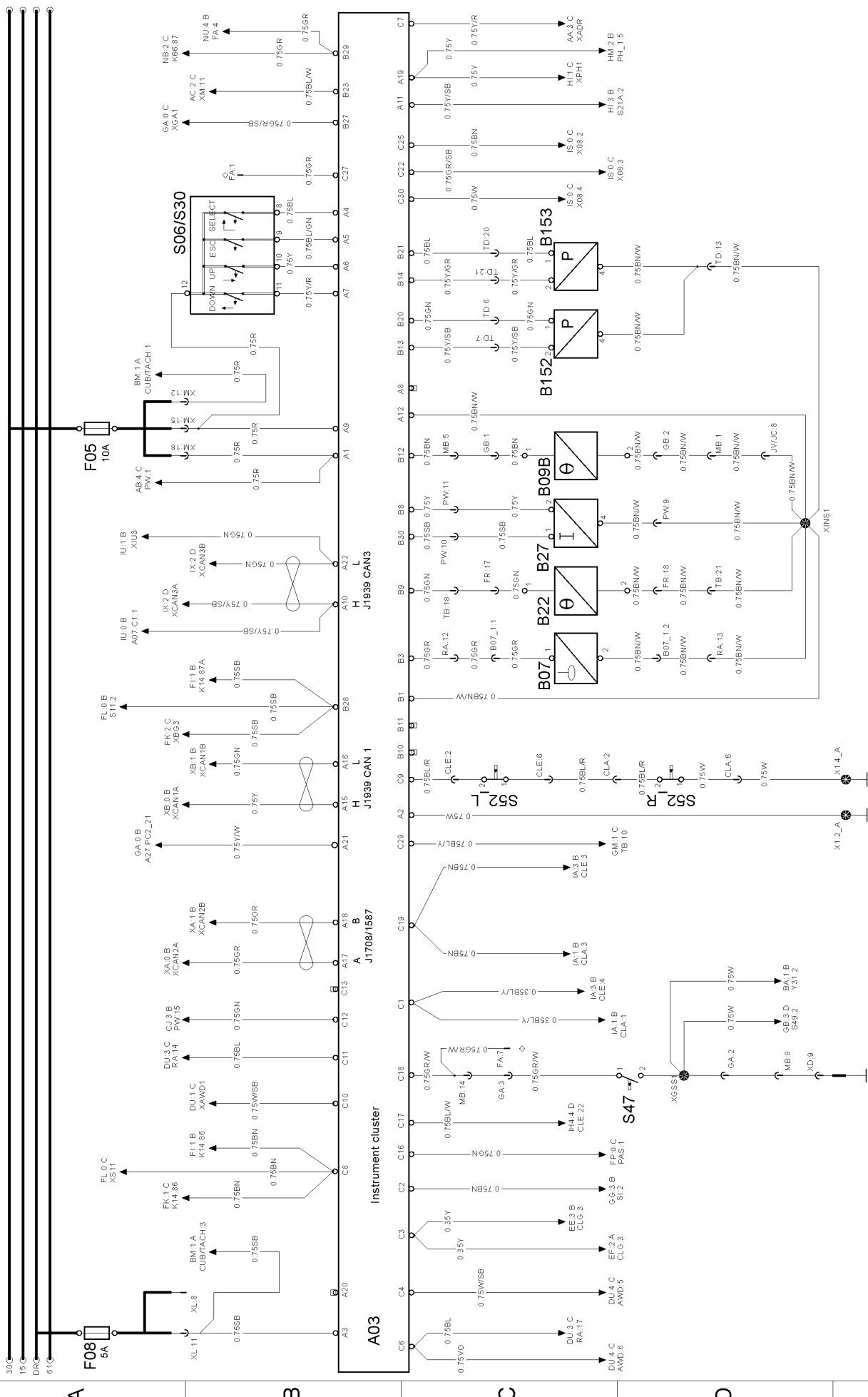


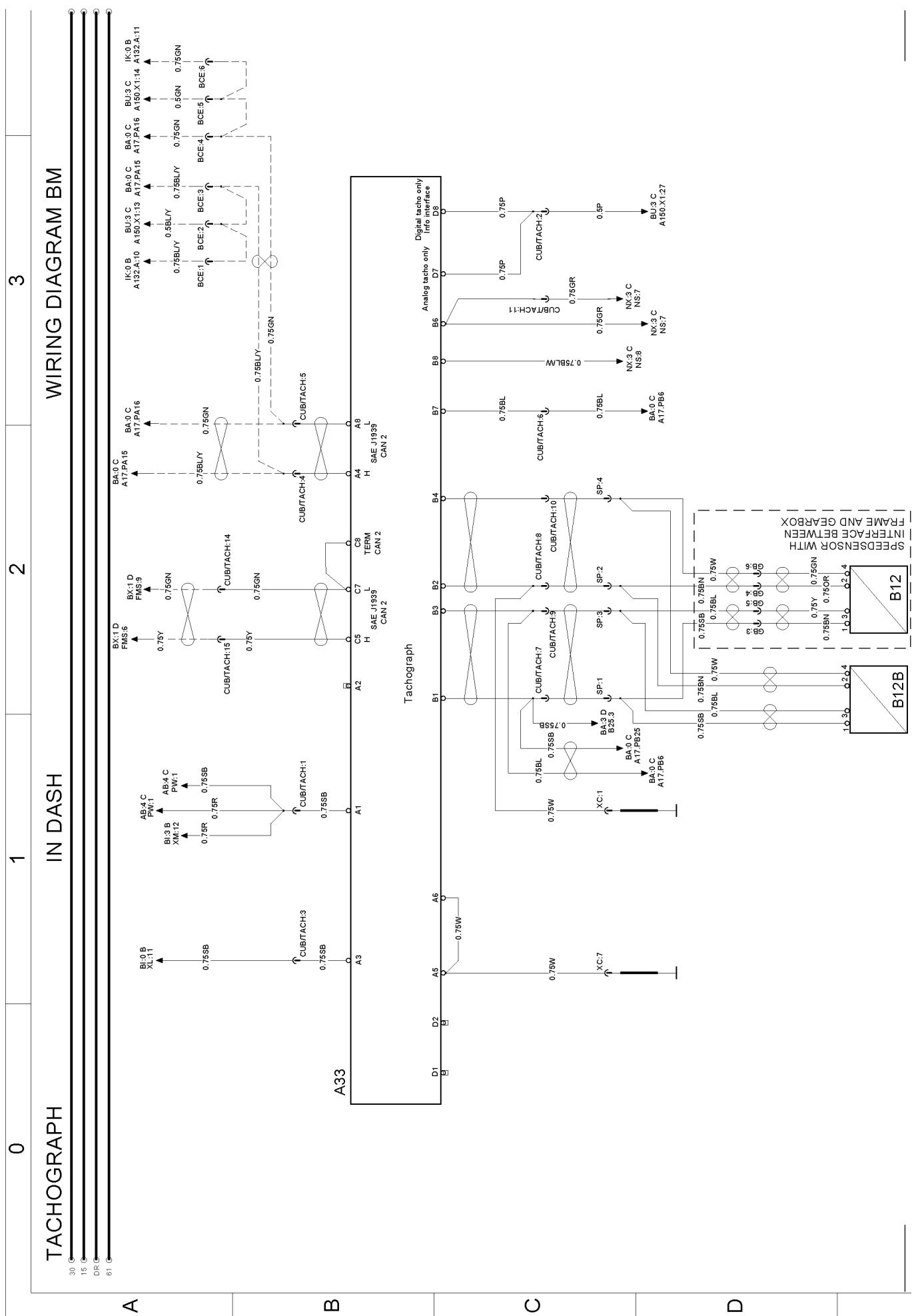


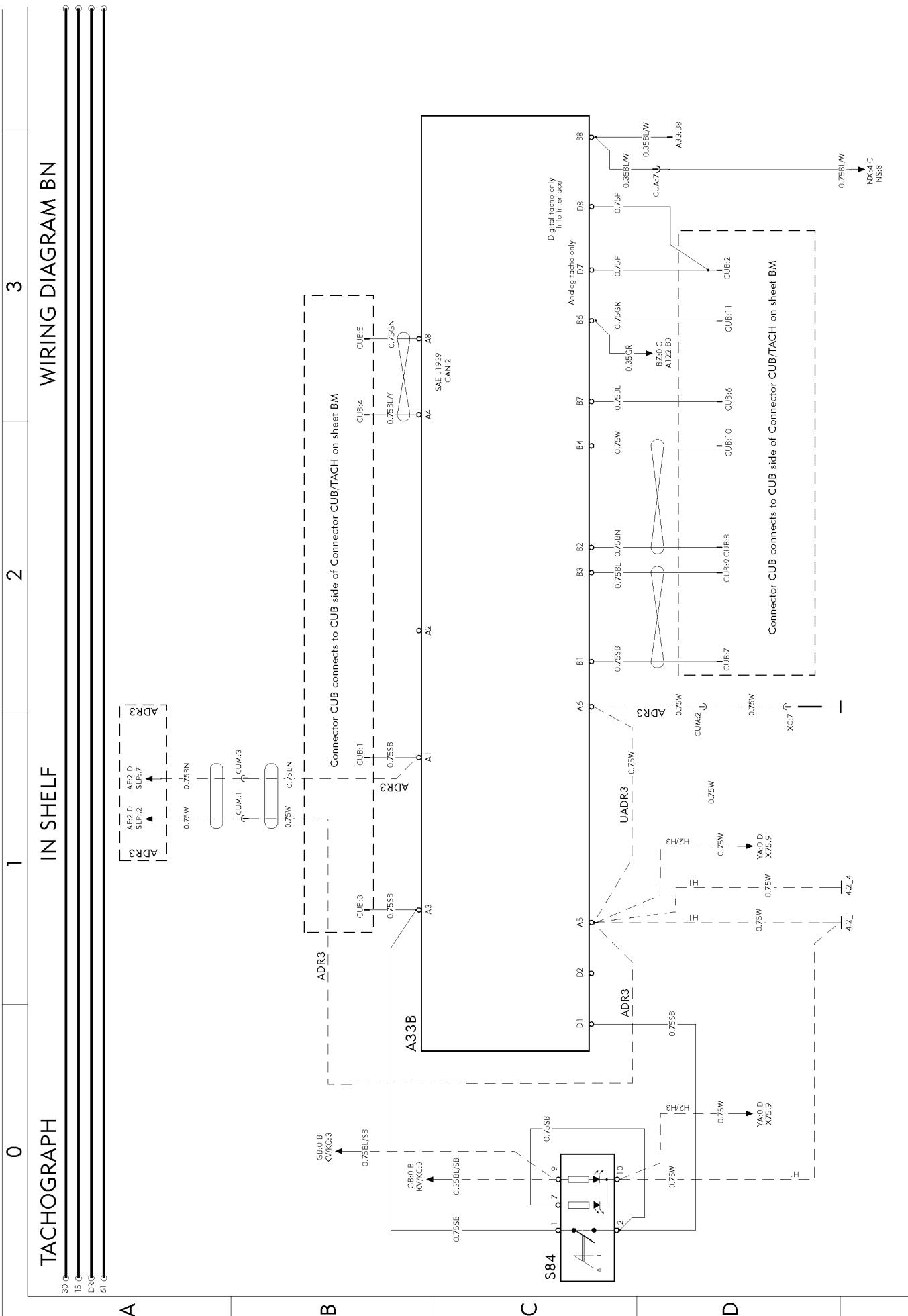
INSTRUMENT CLUSTER

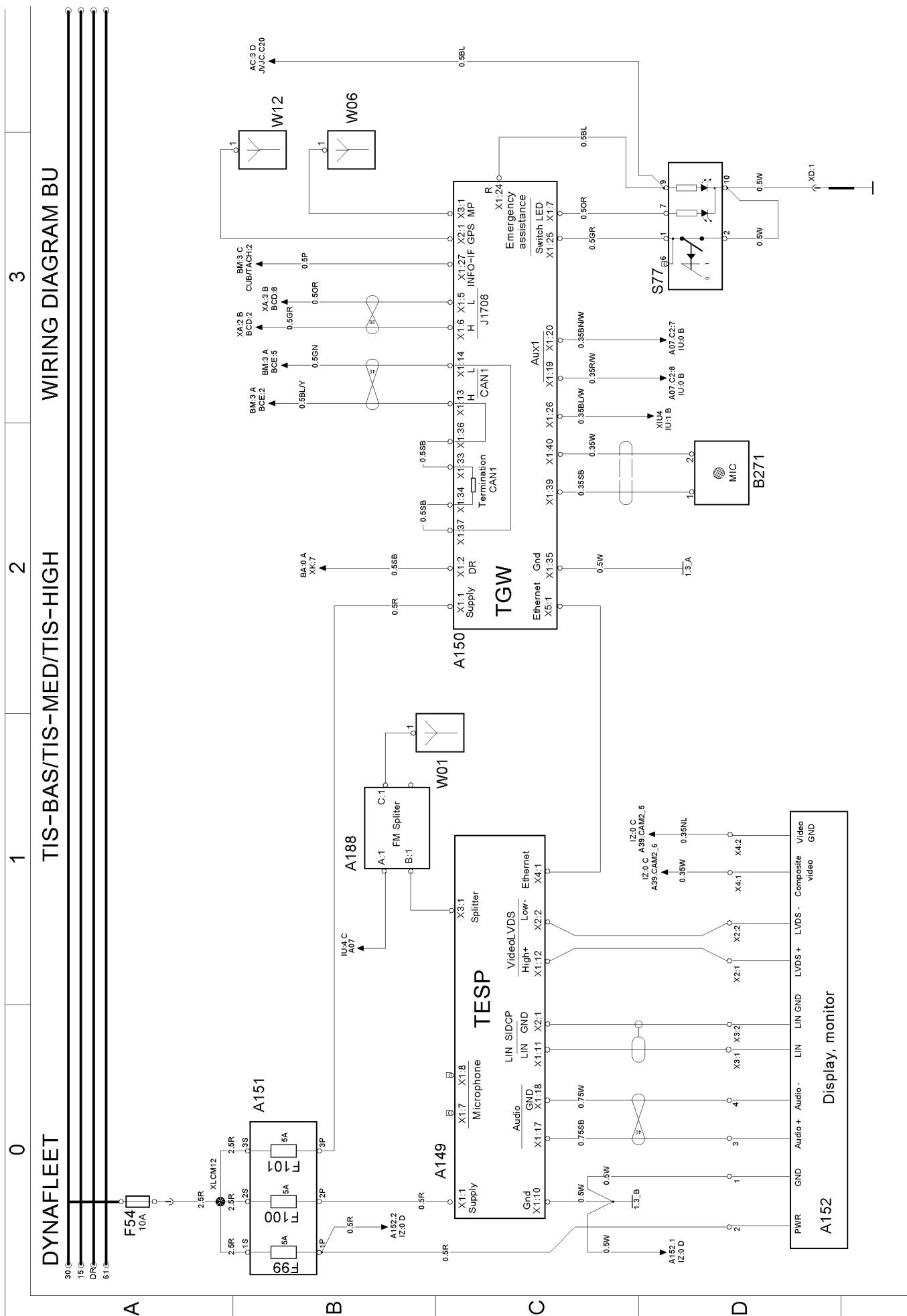
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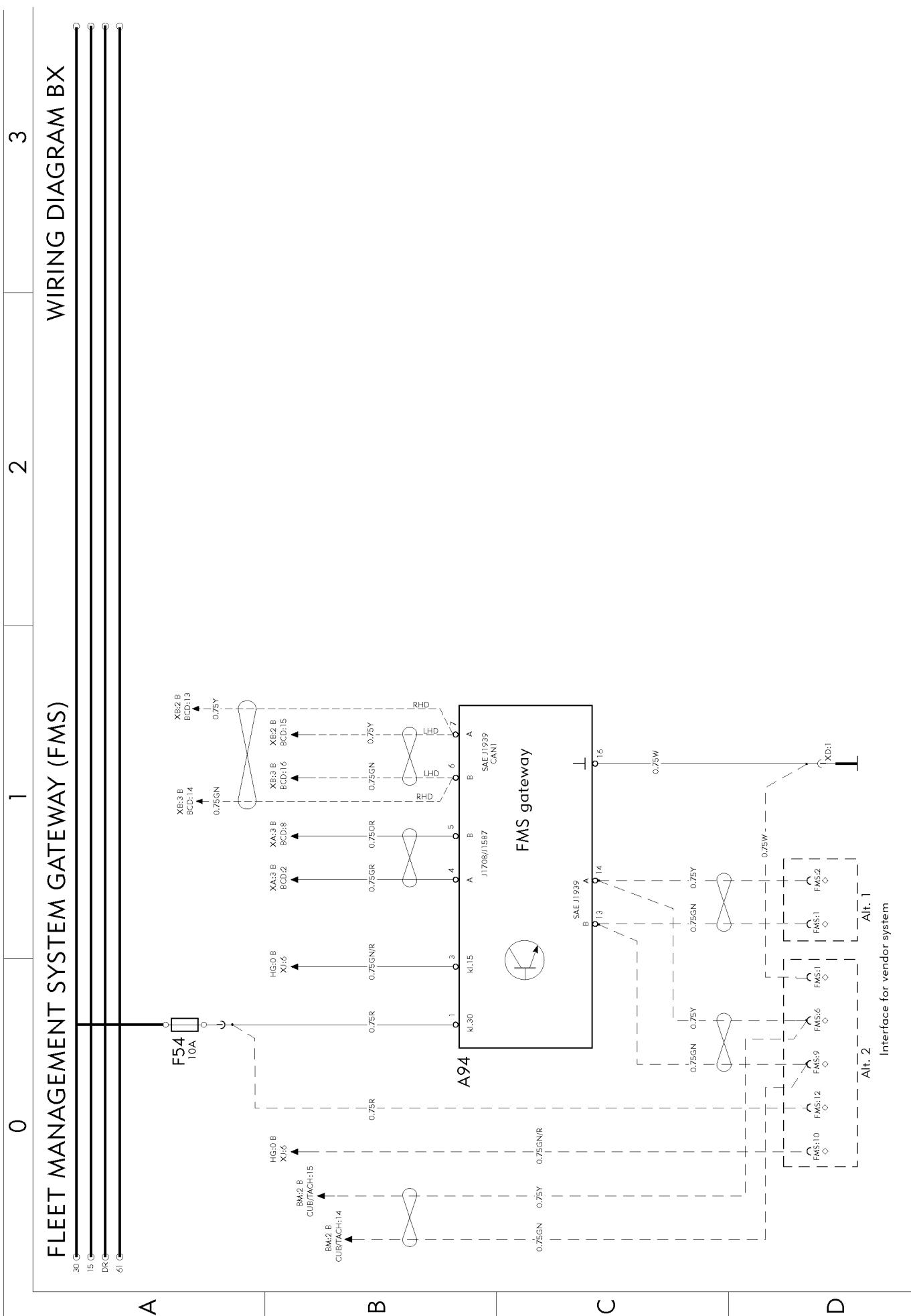
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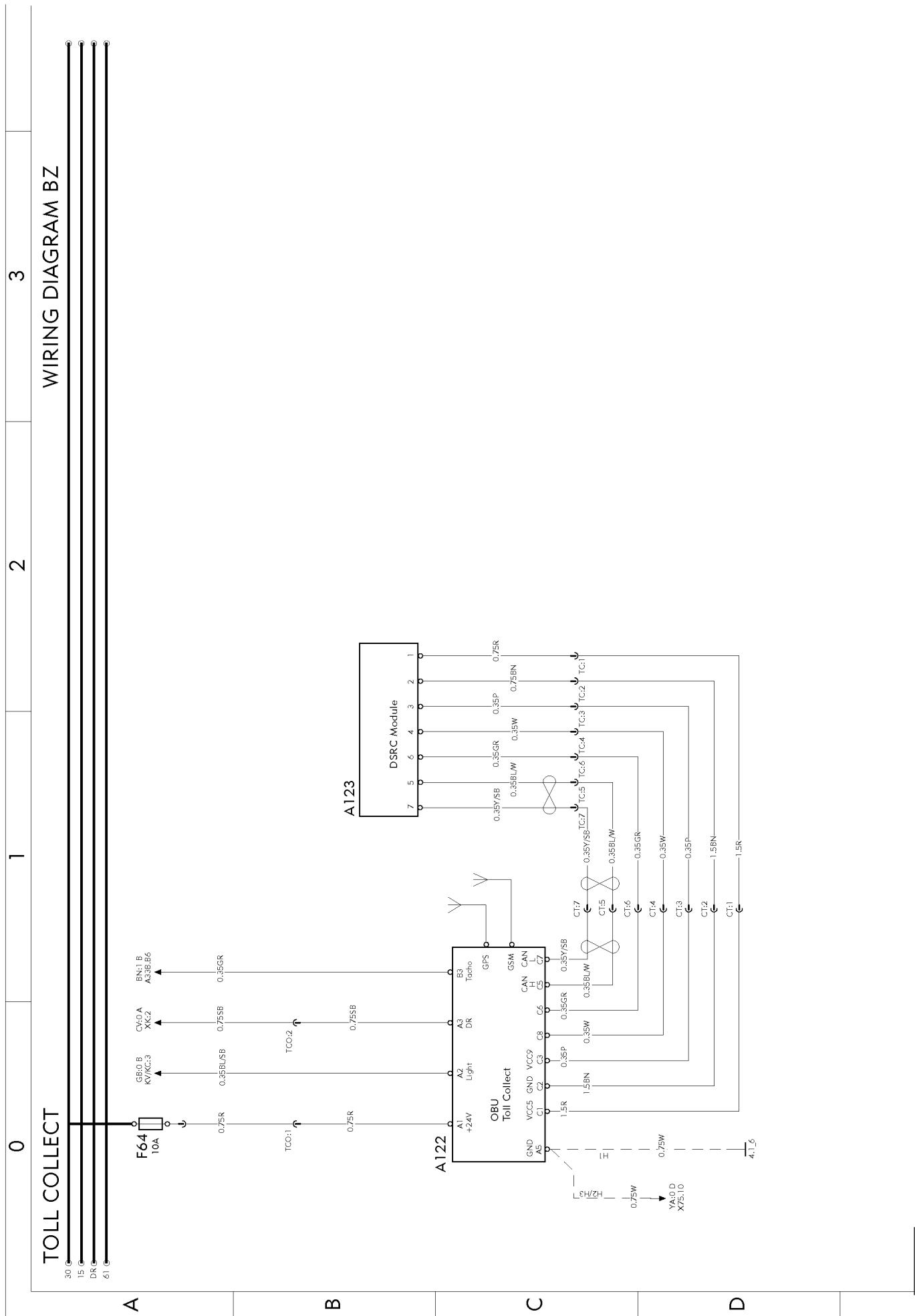


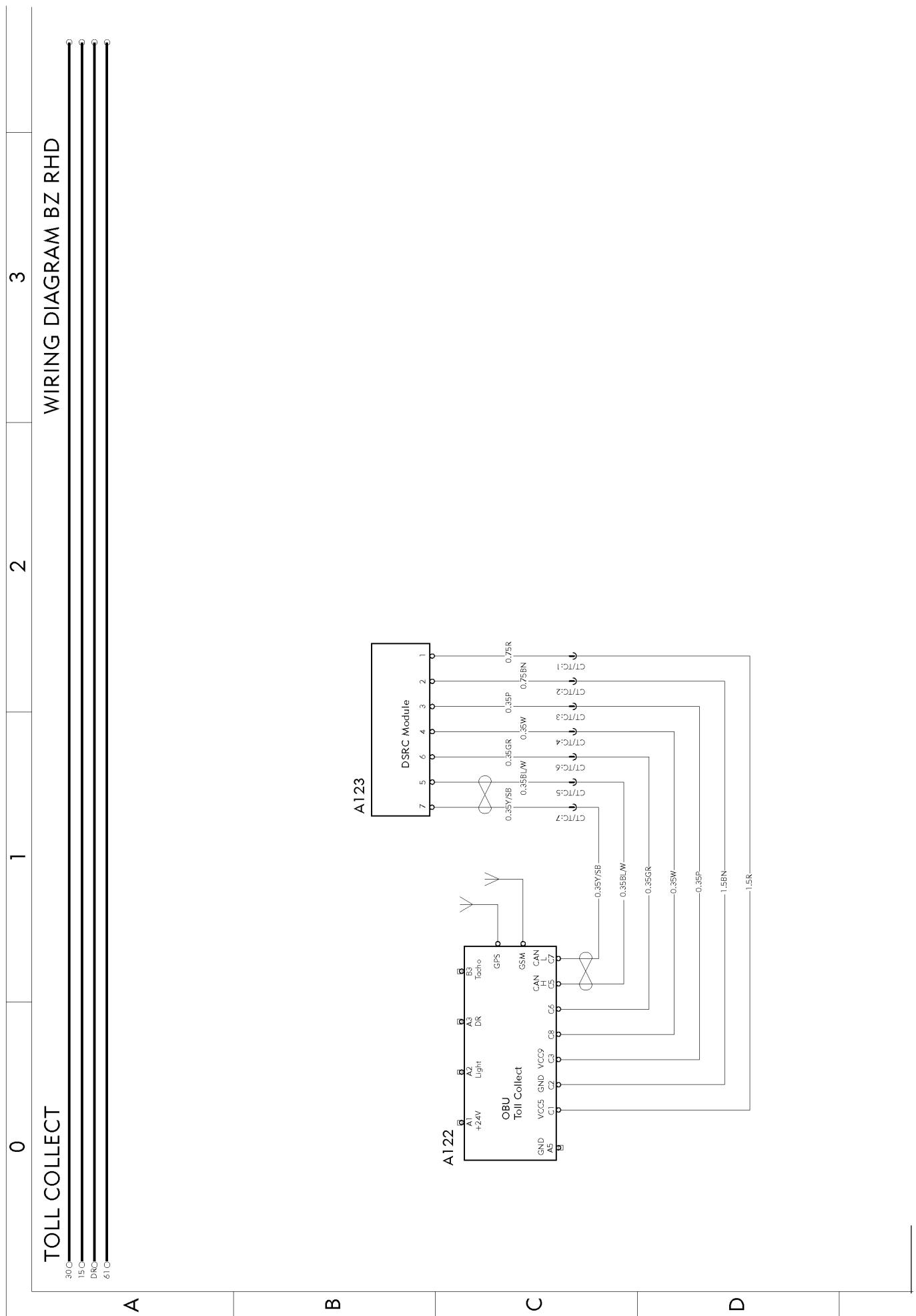












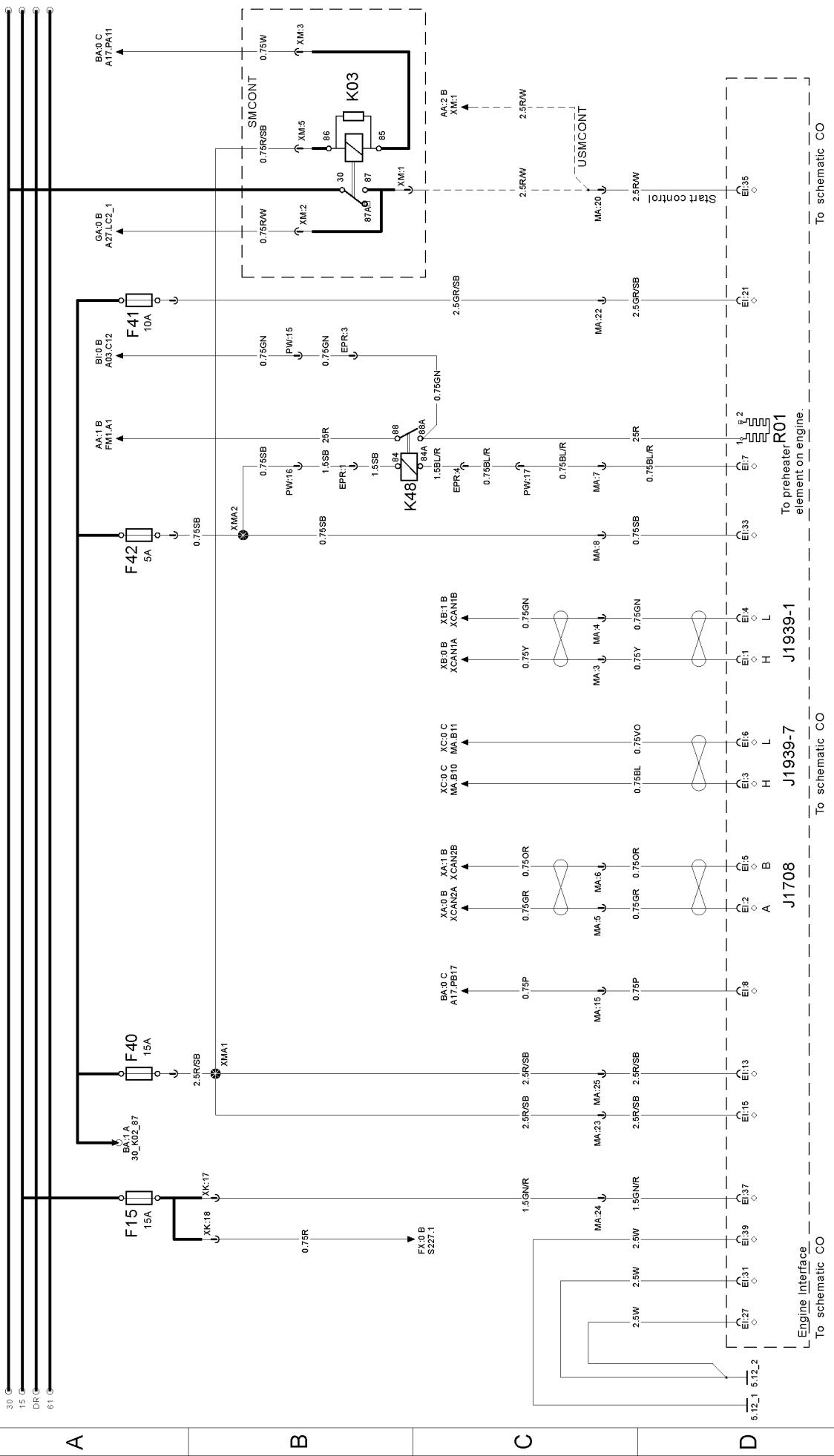
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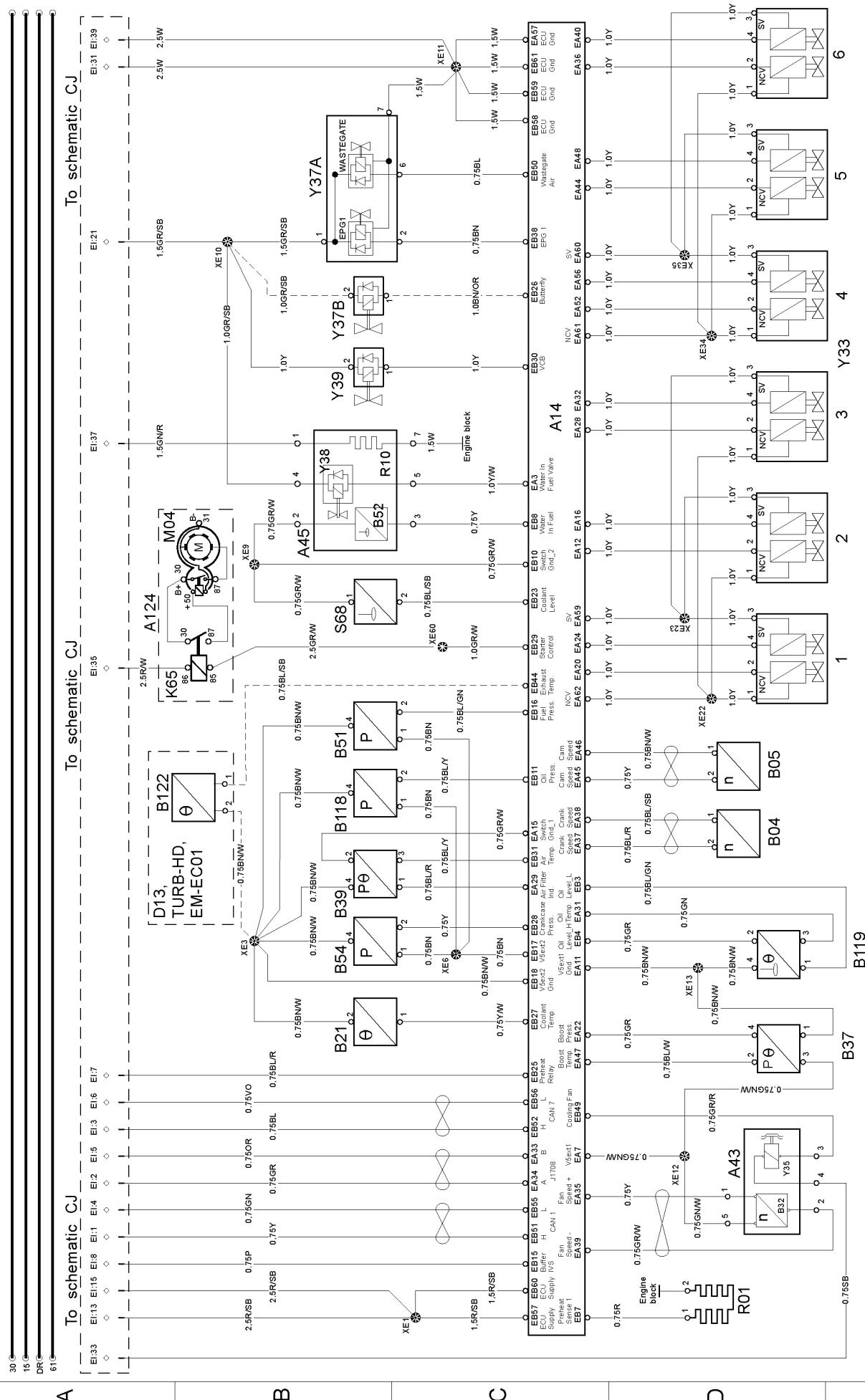
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ENGINE INTERFACE

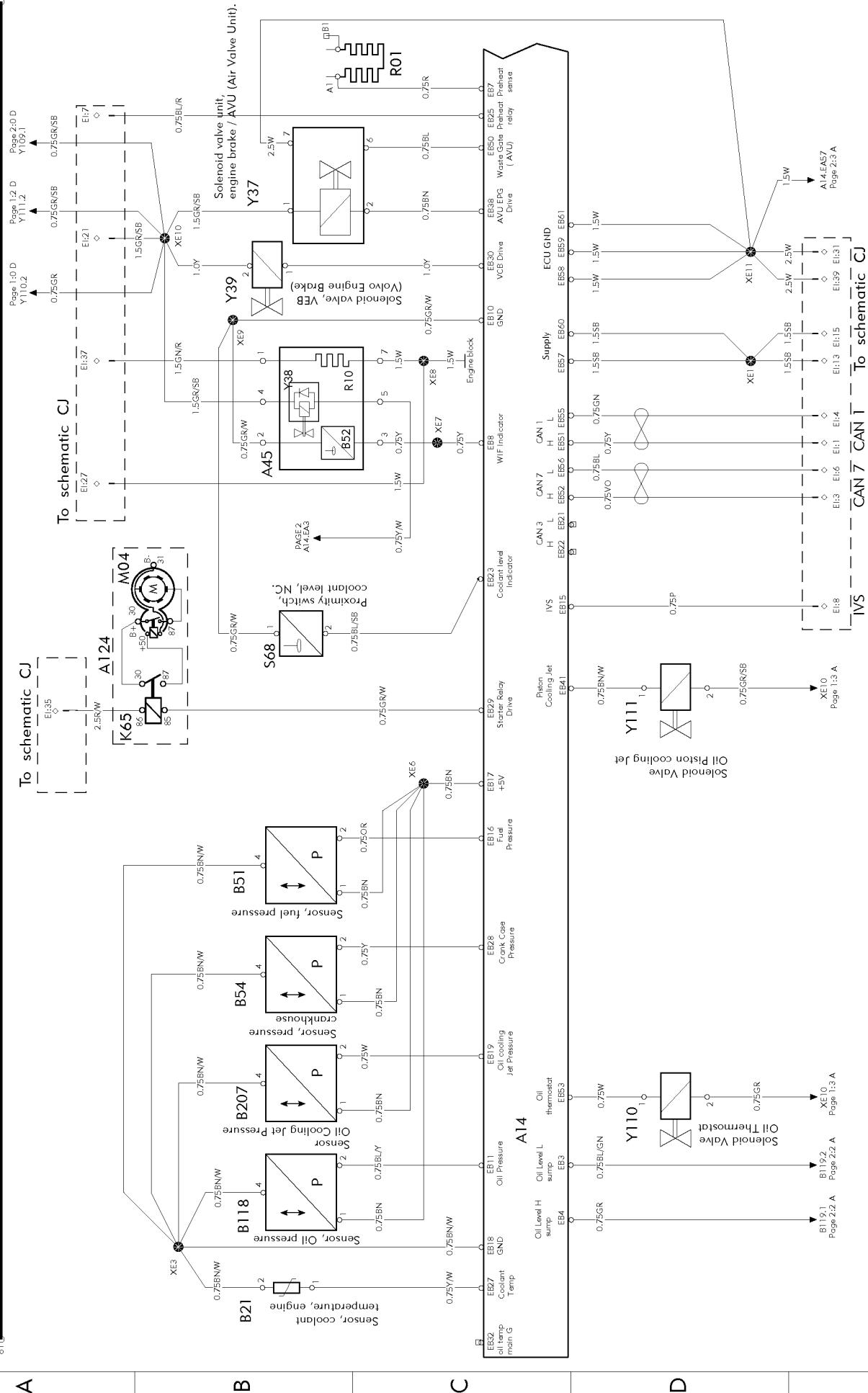
WIRING DIAGRAM CJ



WIRING DIAGRAM CO



WIRING DIAGRAM CO

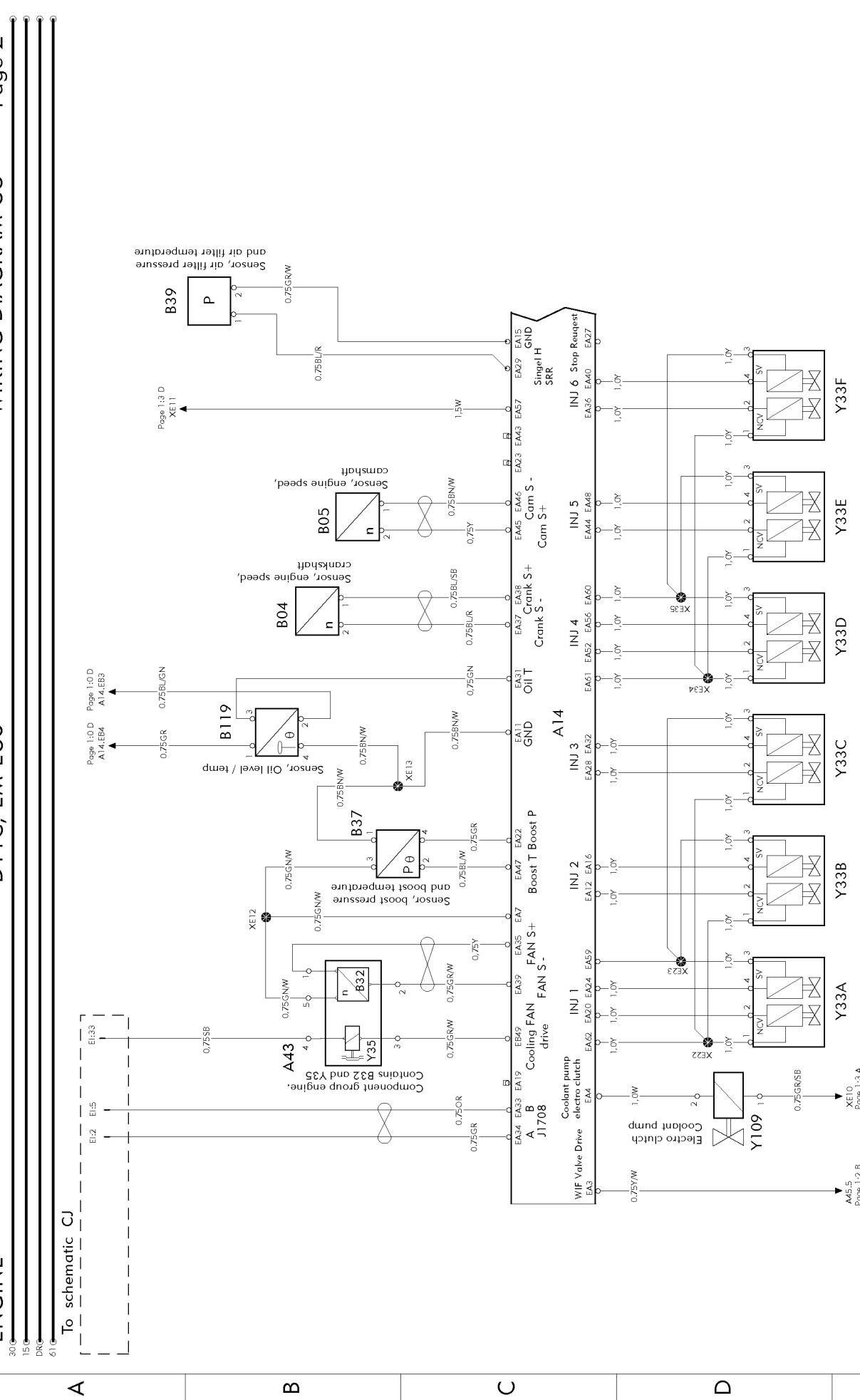


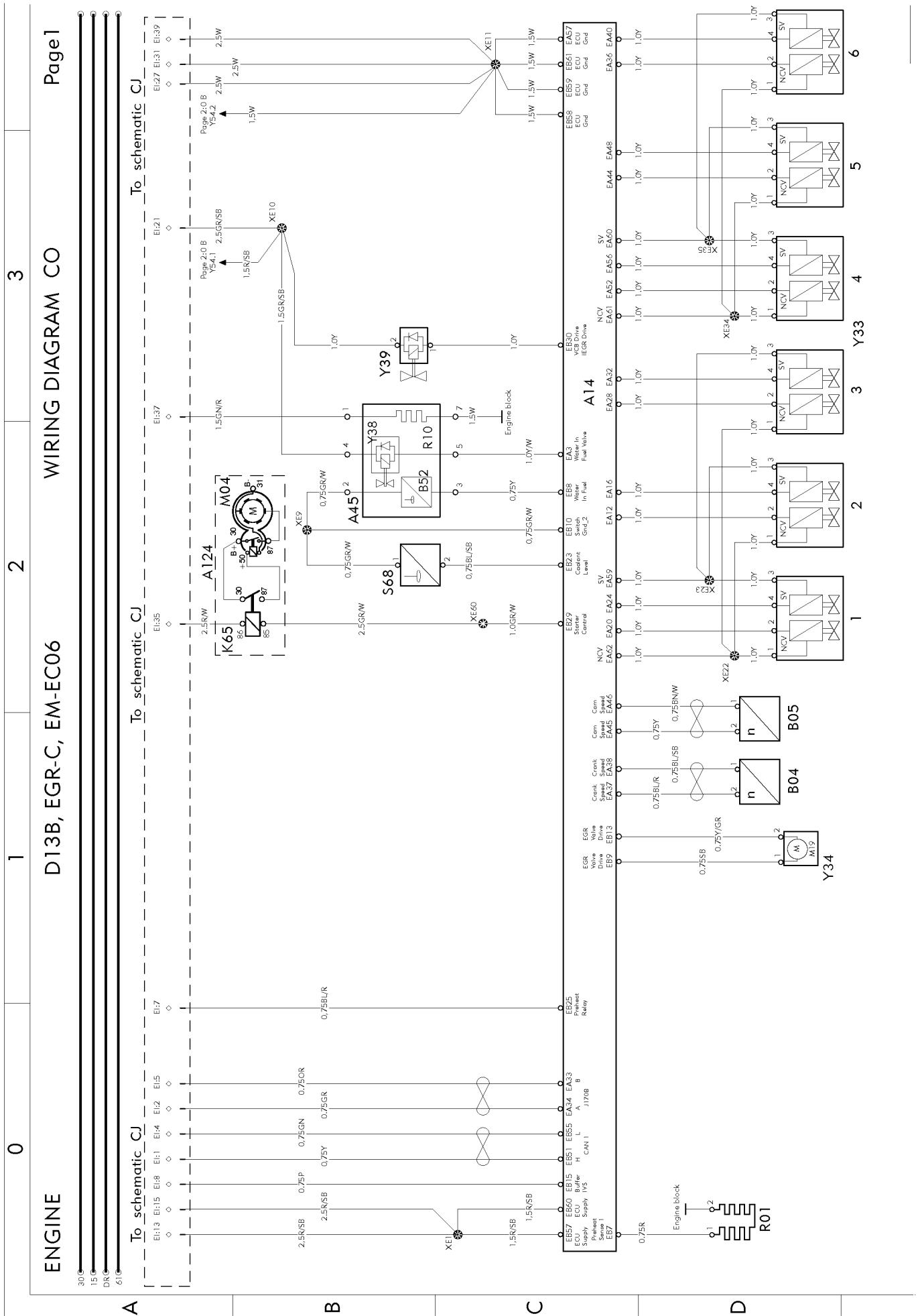
ENGINE

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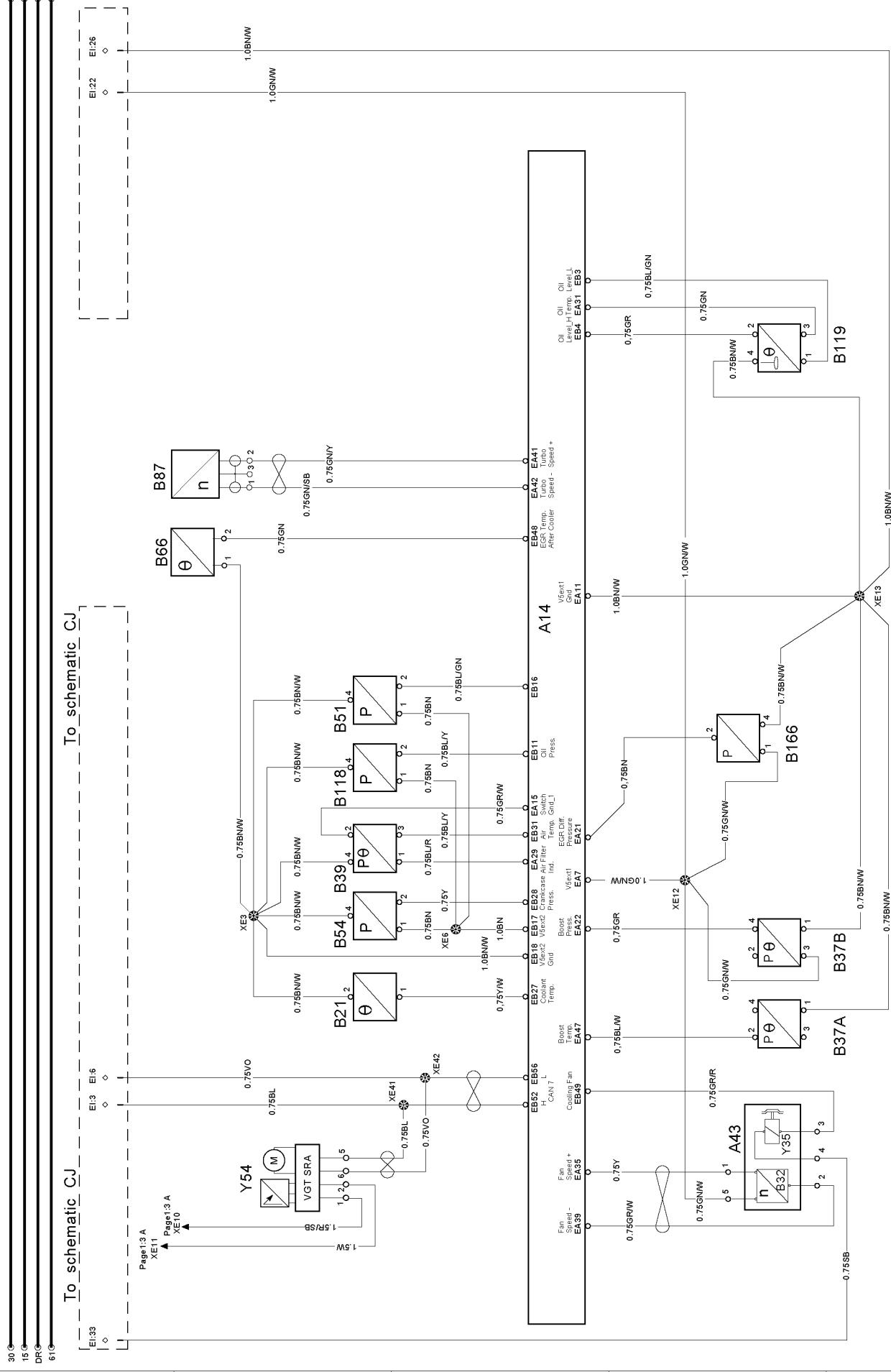
D11C, EM-EU5

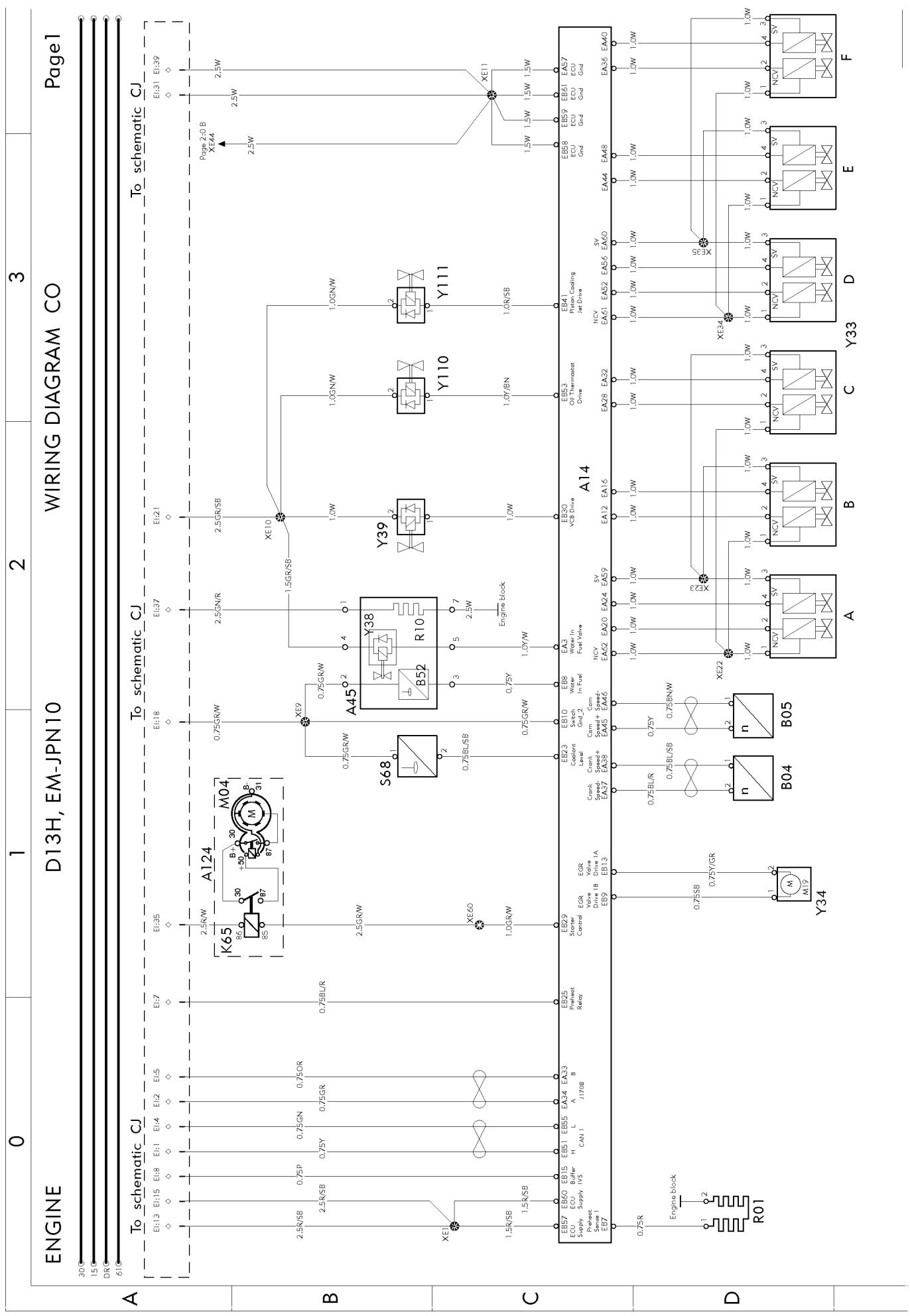
WIRING DIAGRAM CO
Page 2

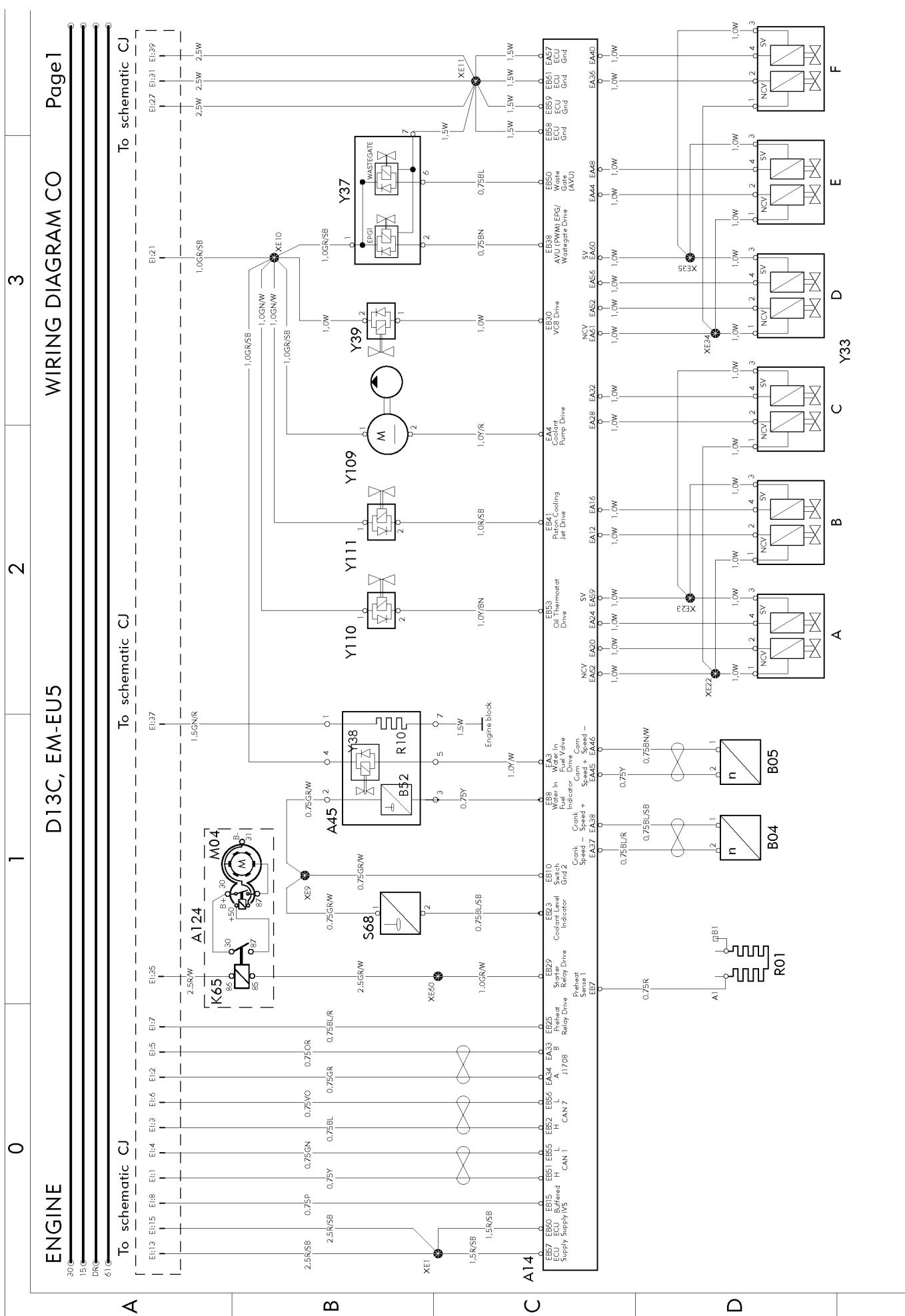


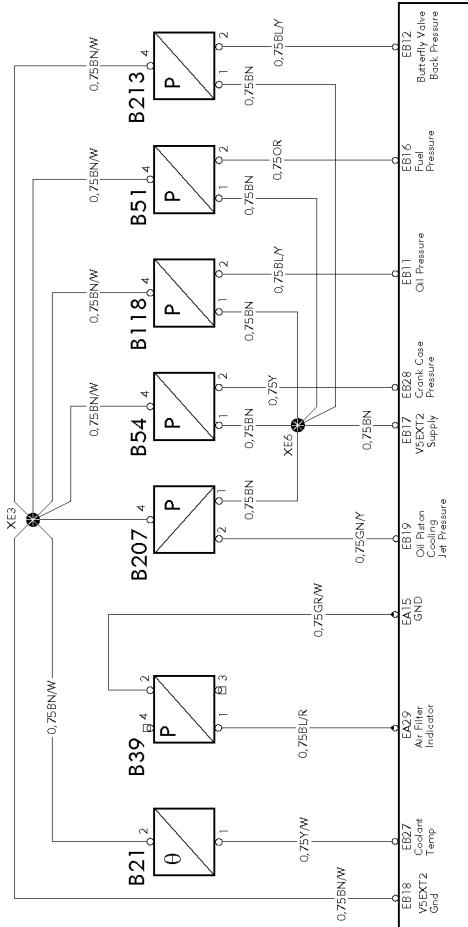
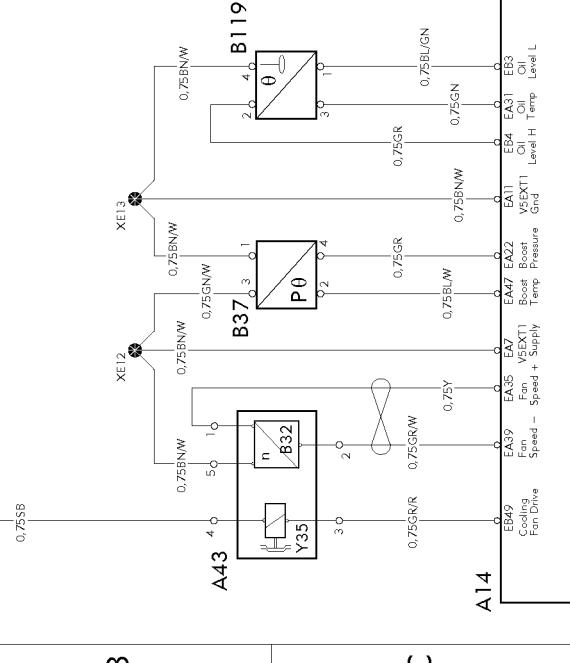


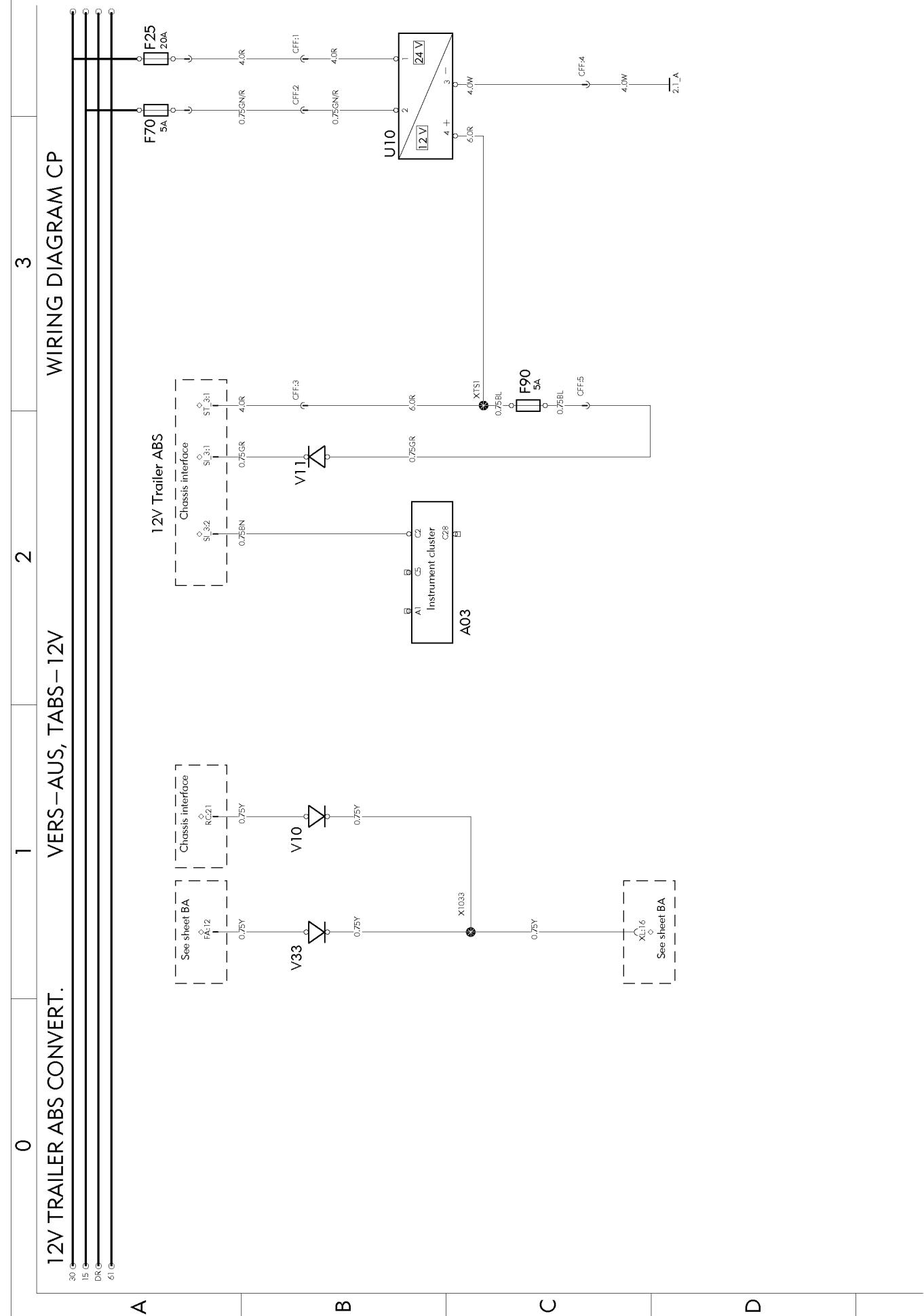
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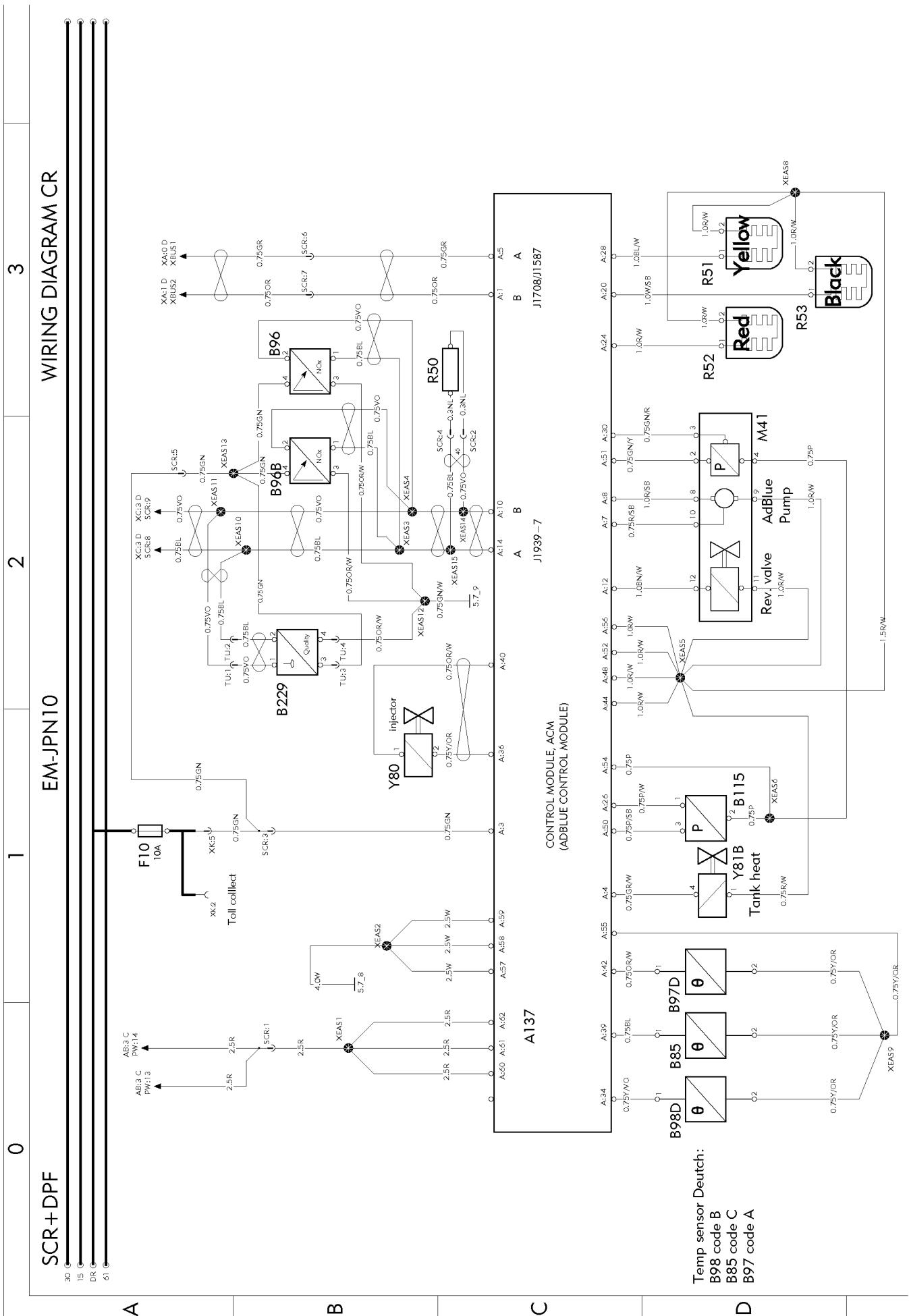


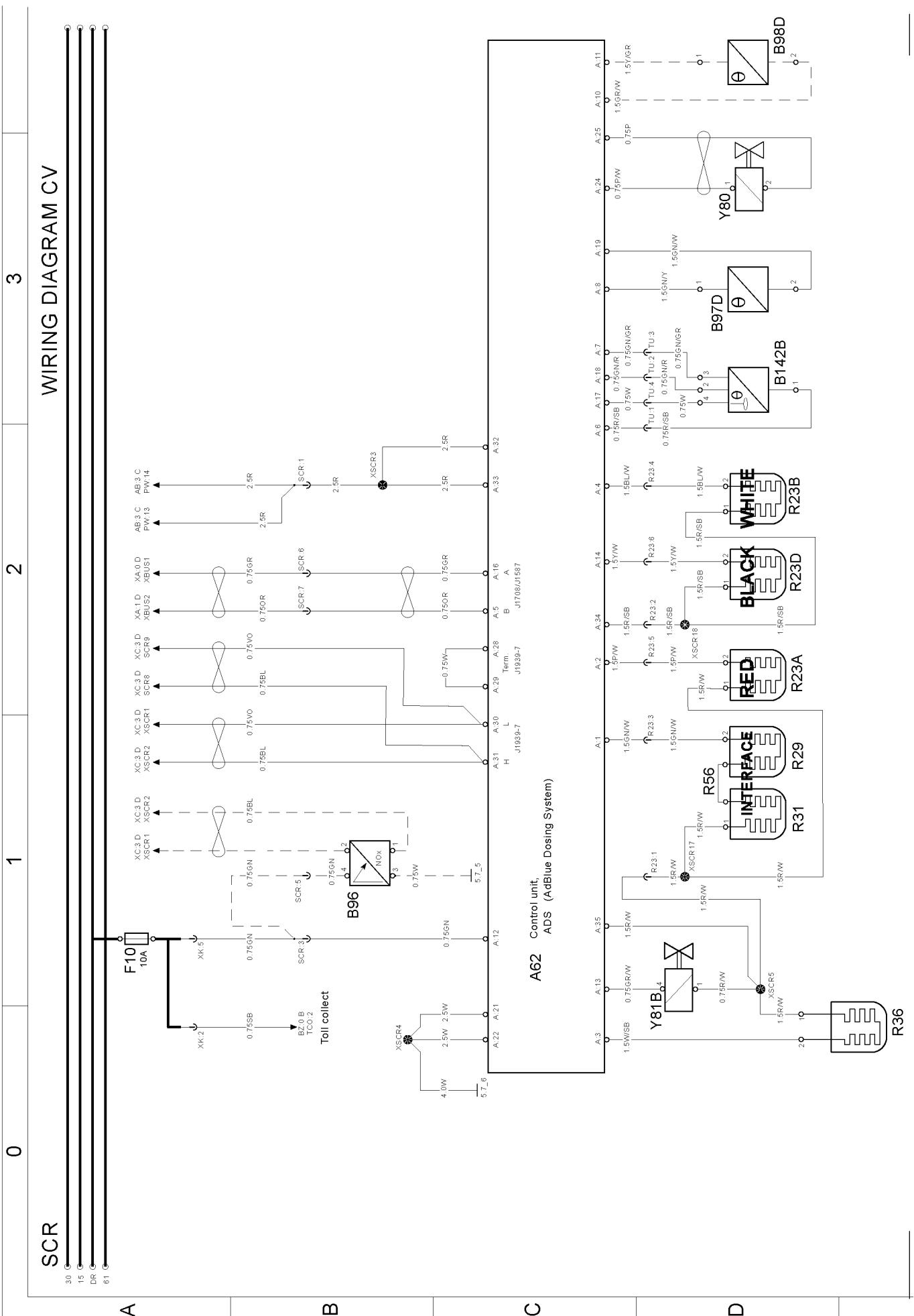


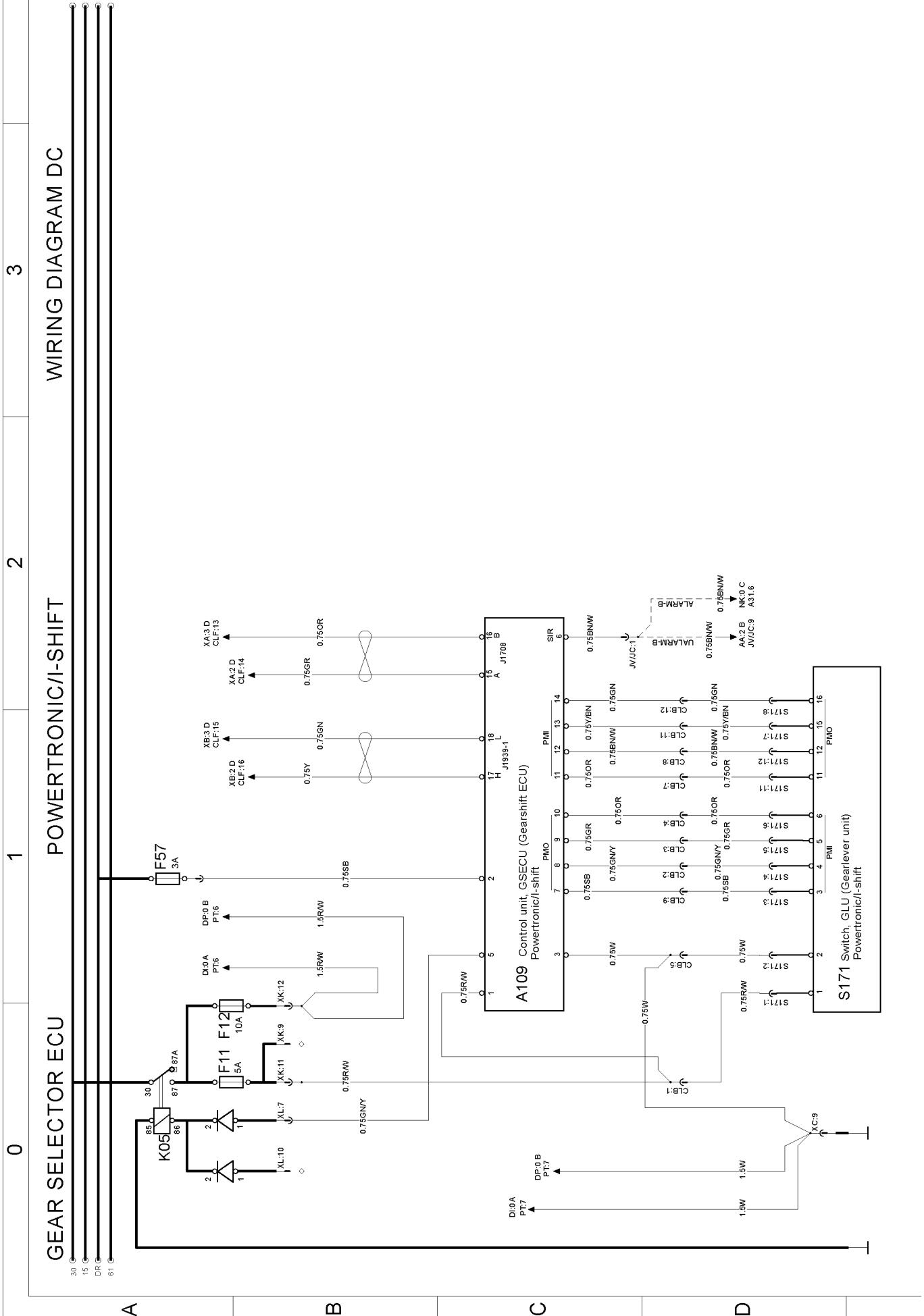












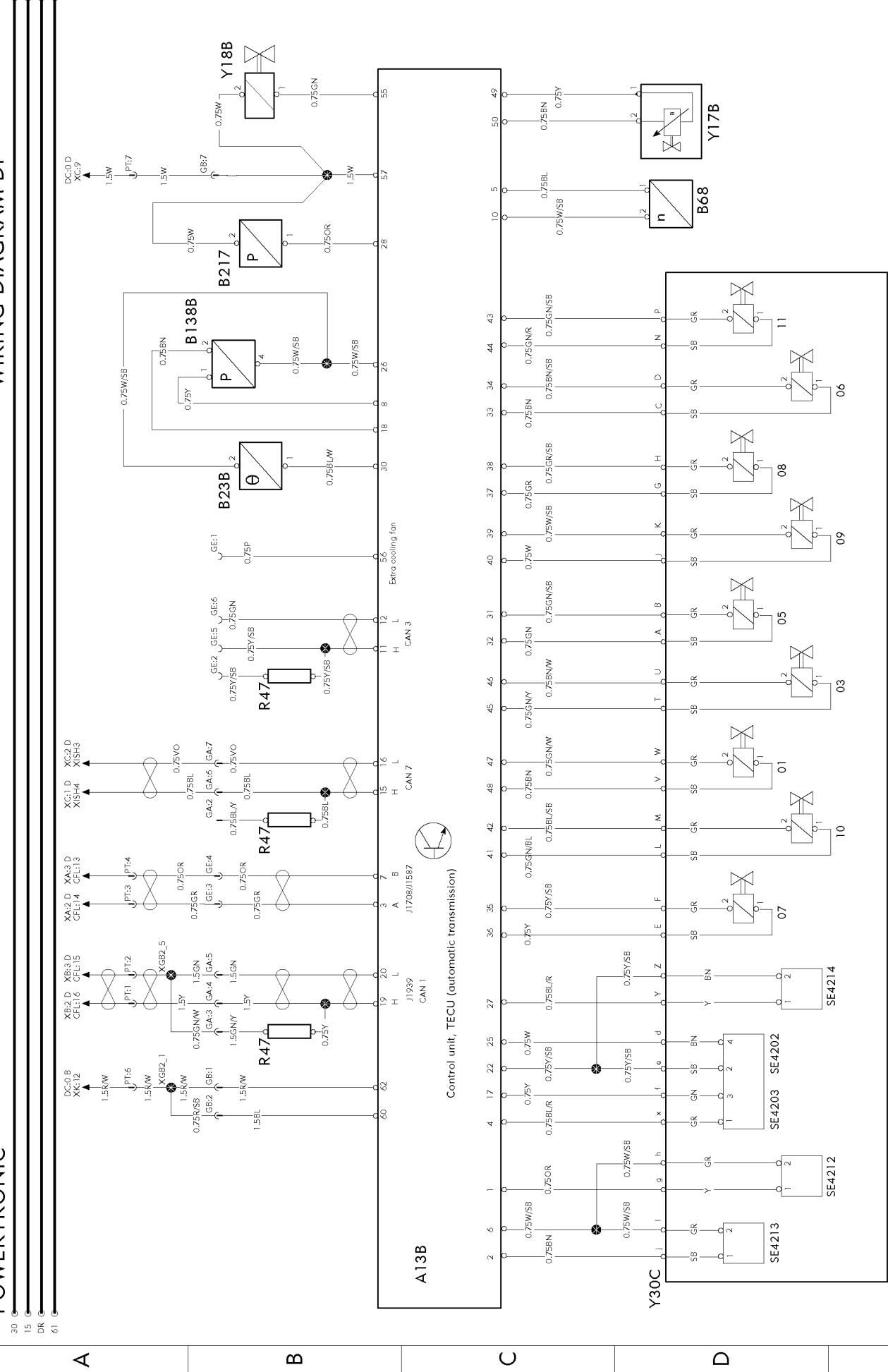
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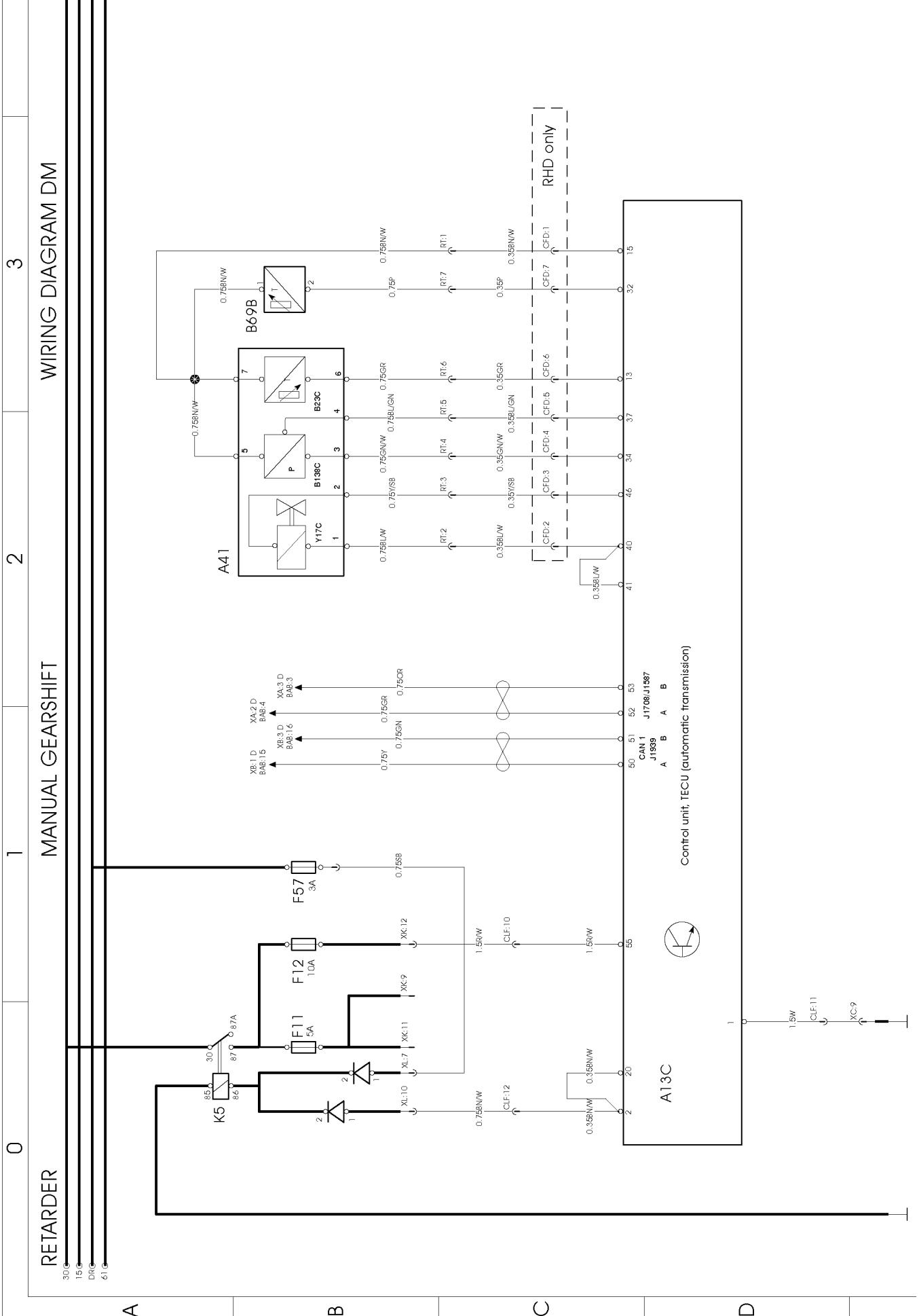
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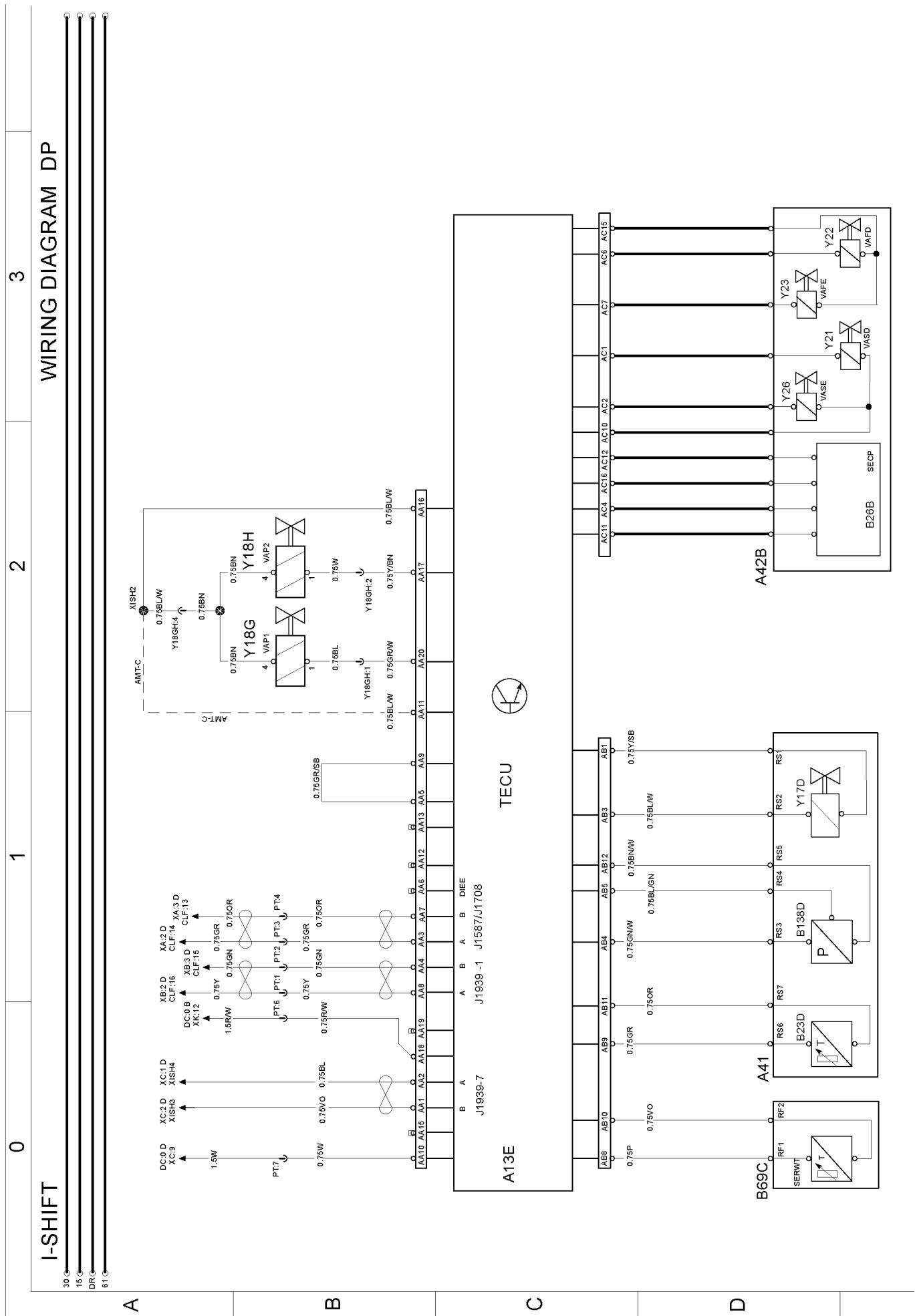
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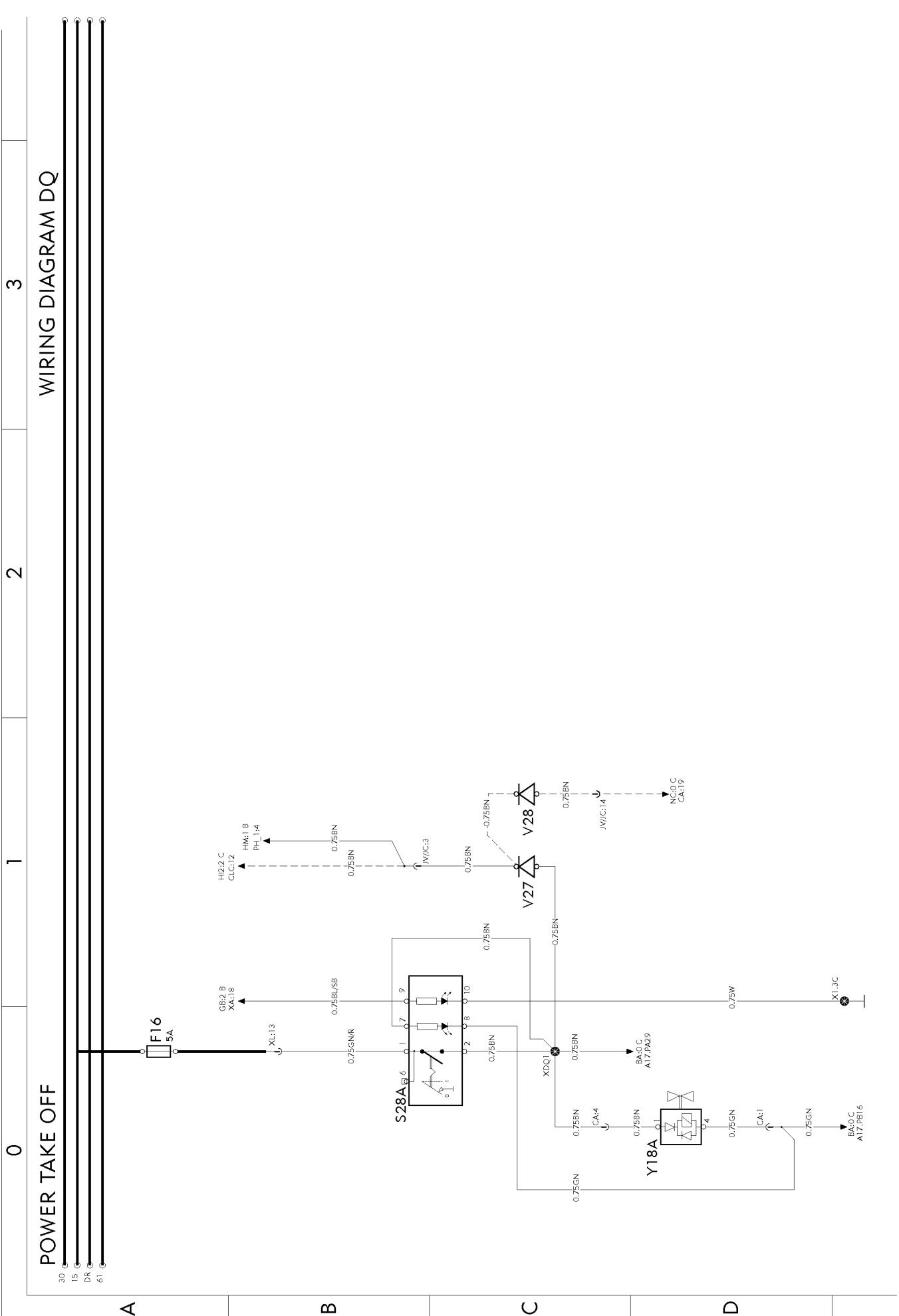
POWERTRONIC







POWER TAKE OFF

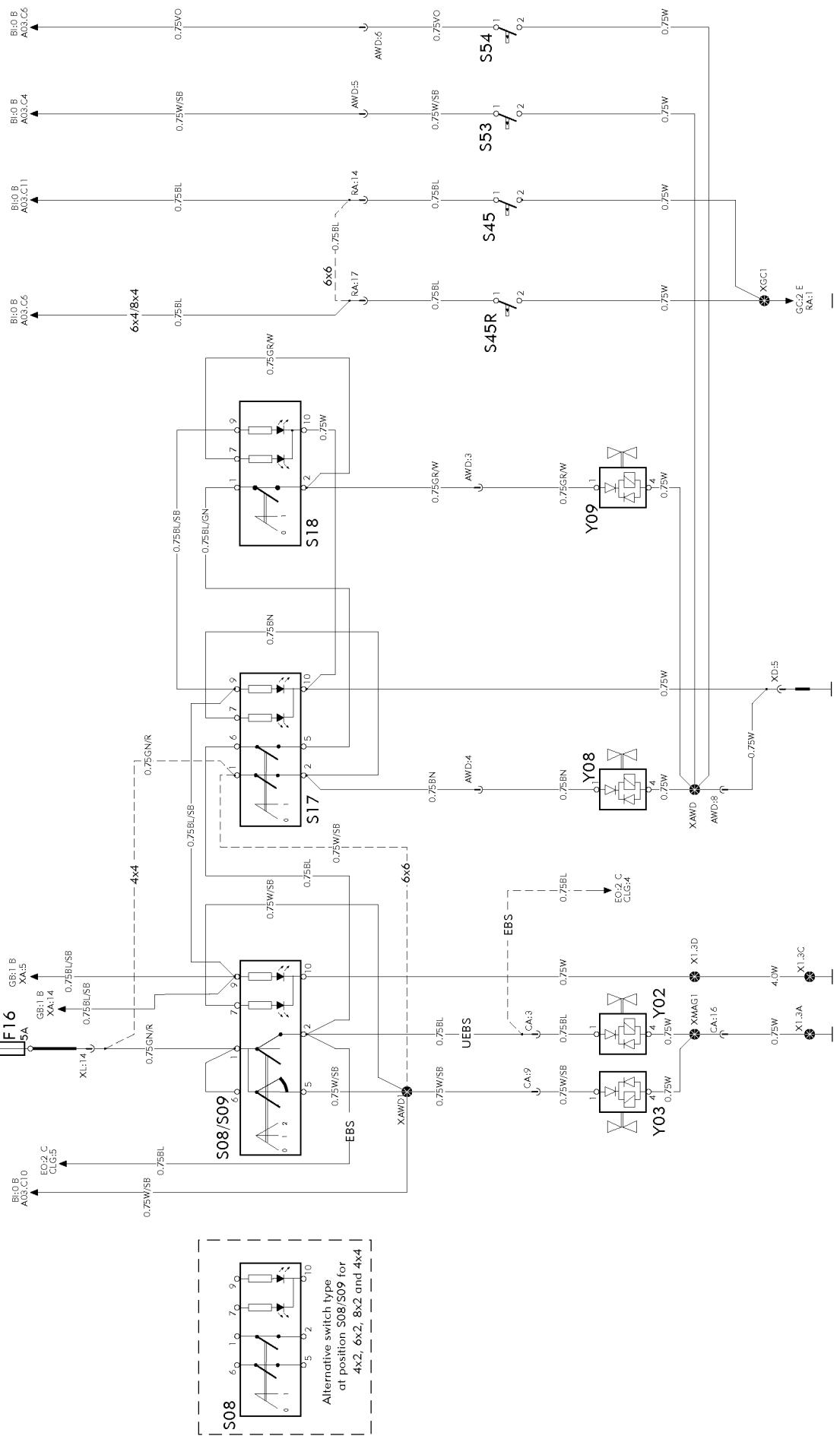


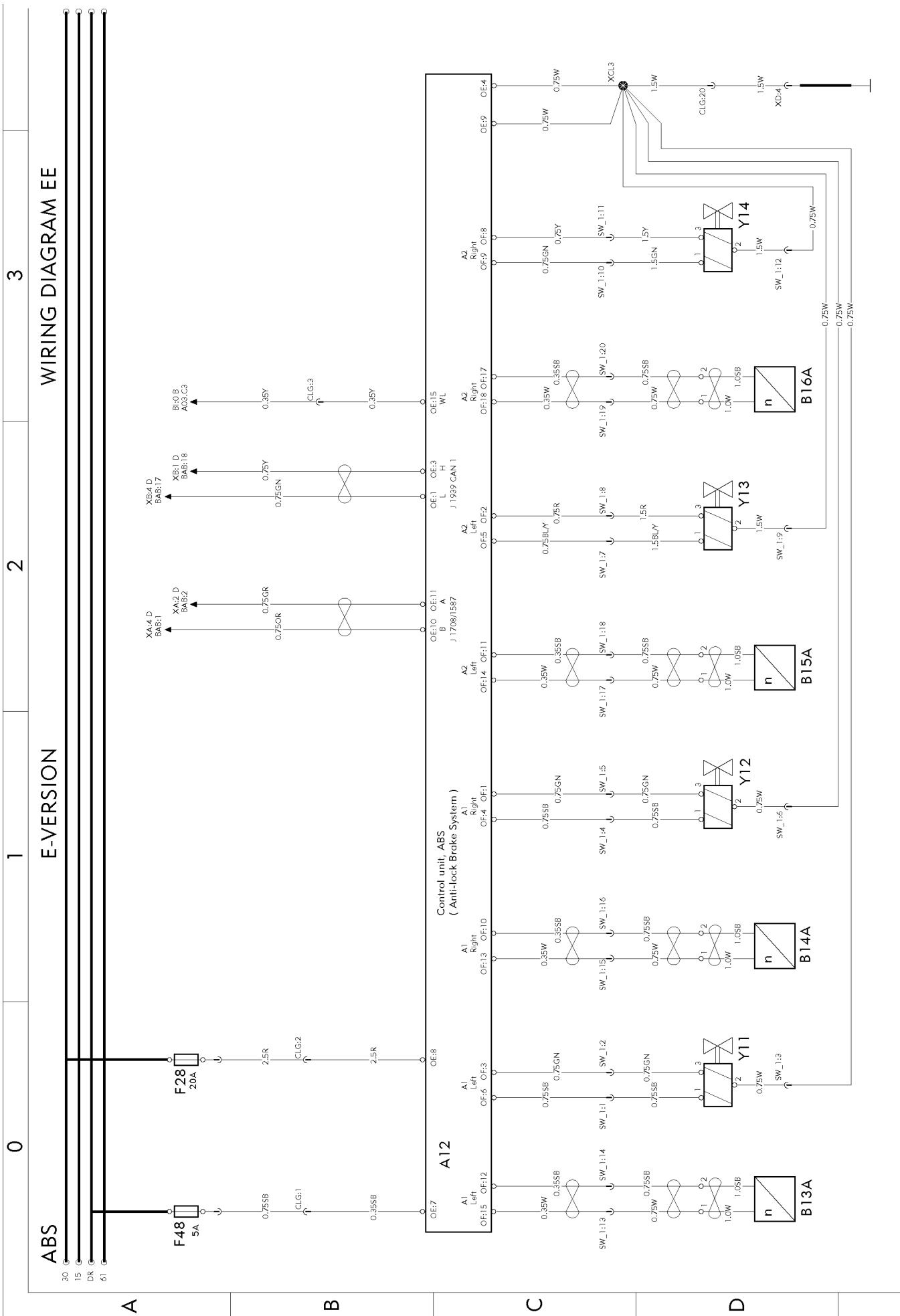
DIFF.-LOCK

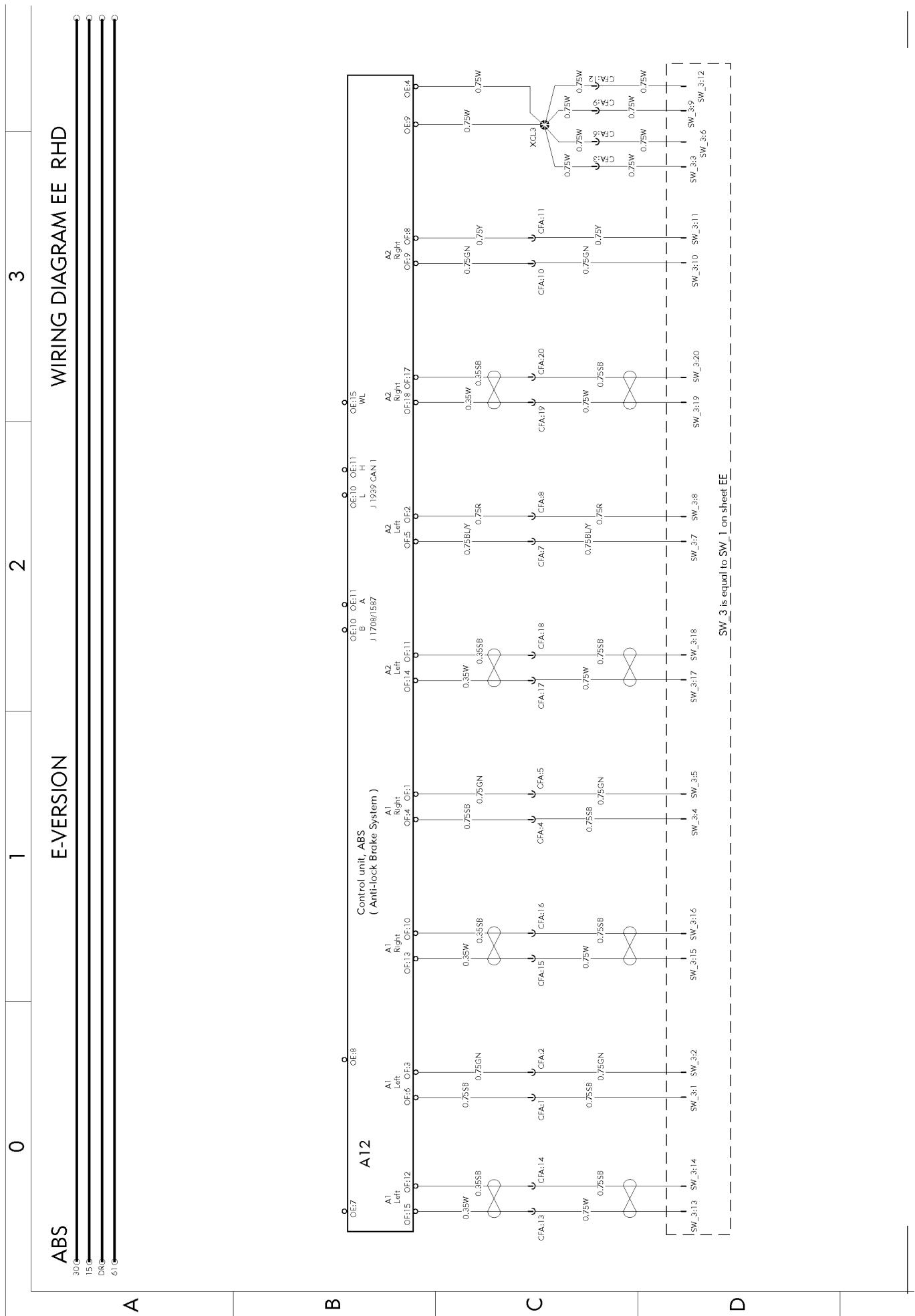
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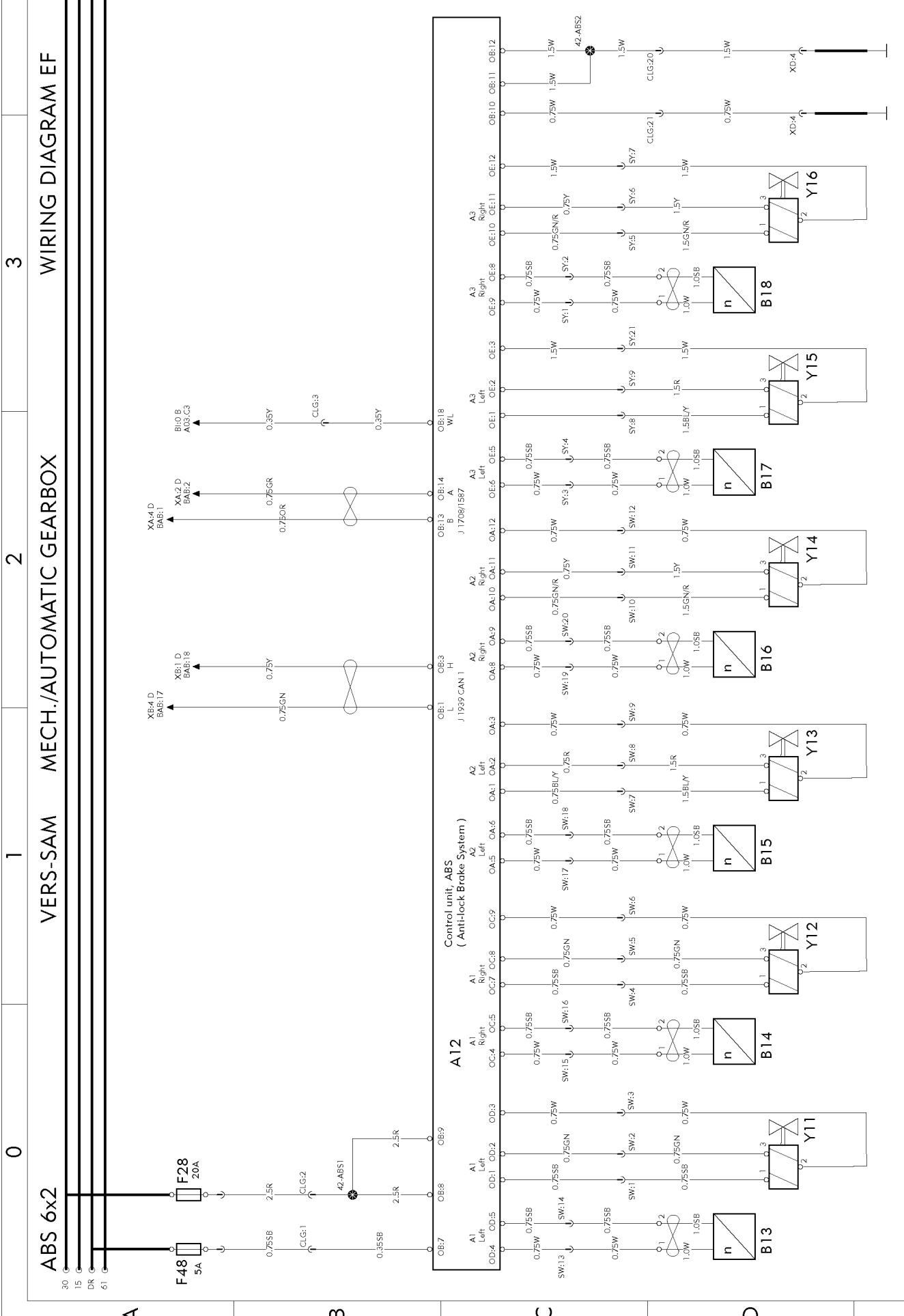
4x2, 6x2, 6x4, 8x2, 8x4, AWD

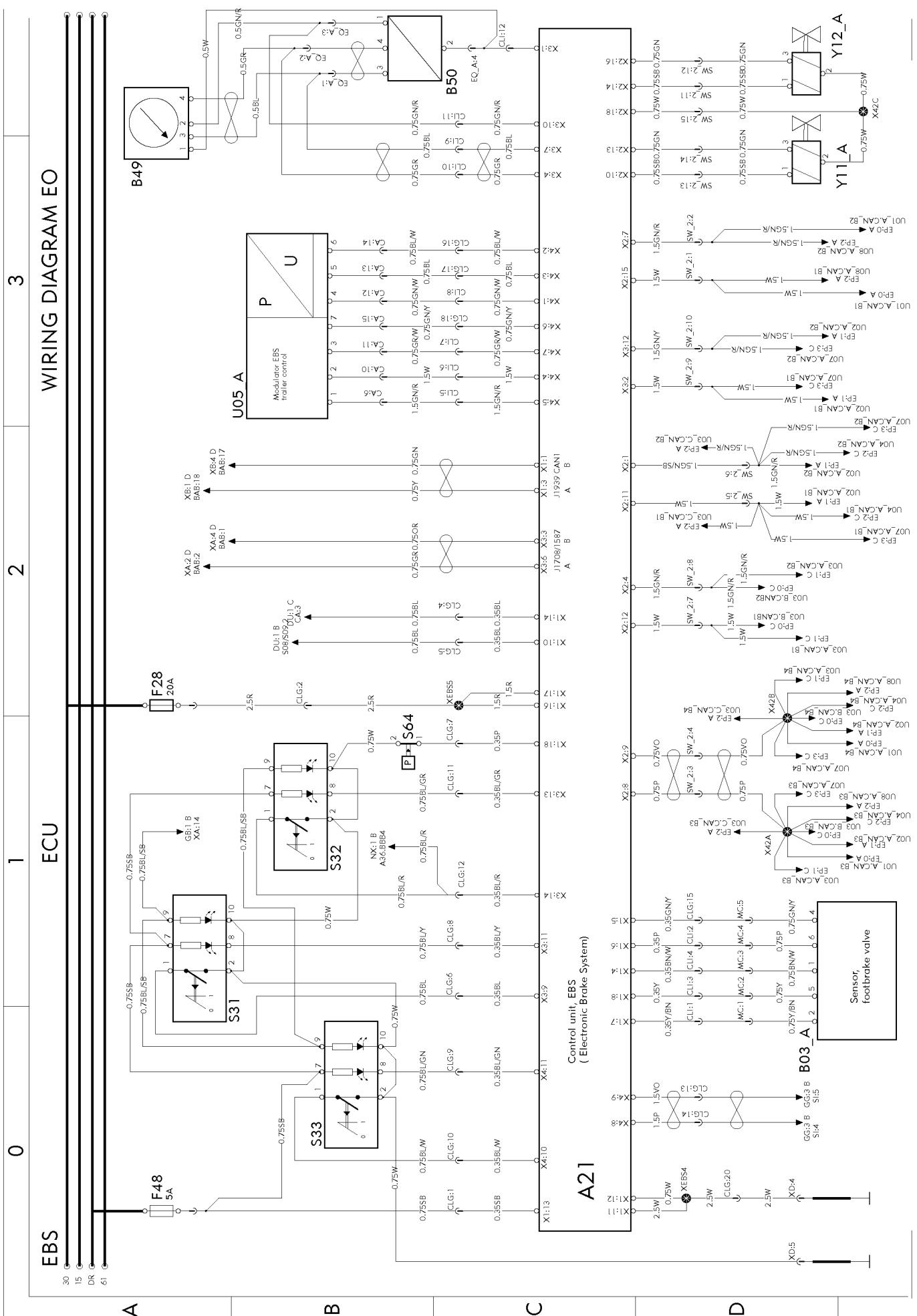
WIRING DIAGRAM DU

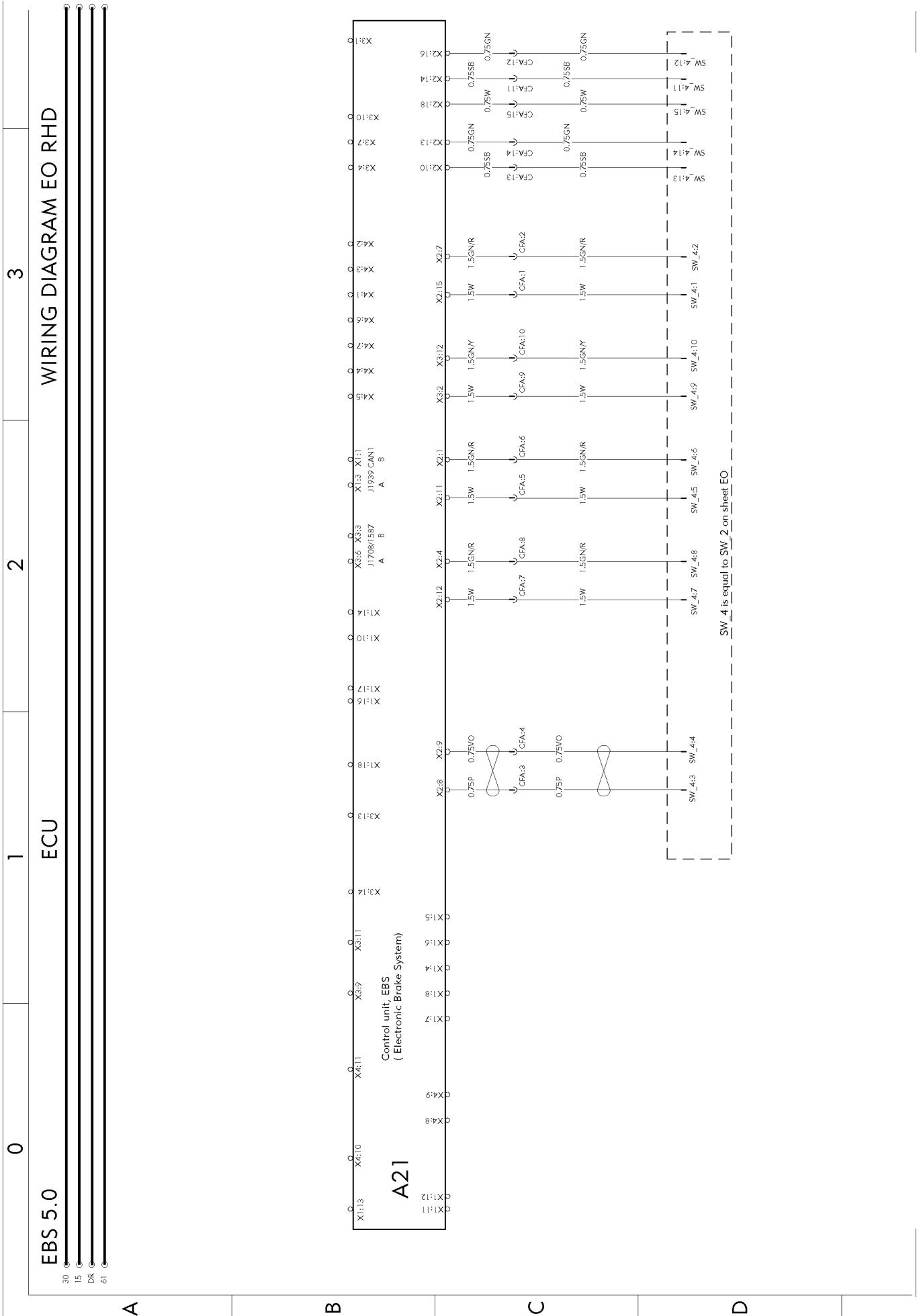


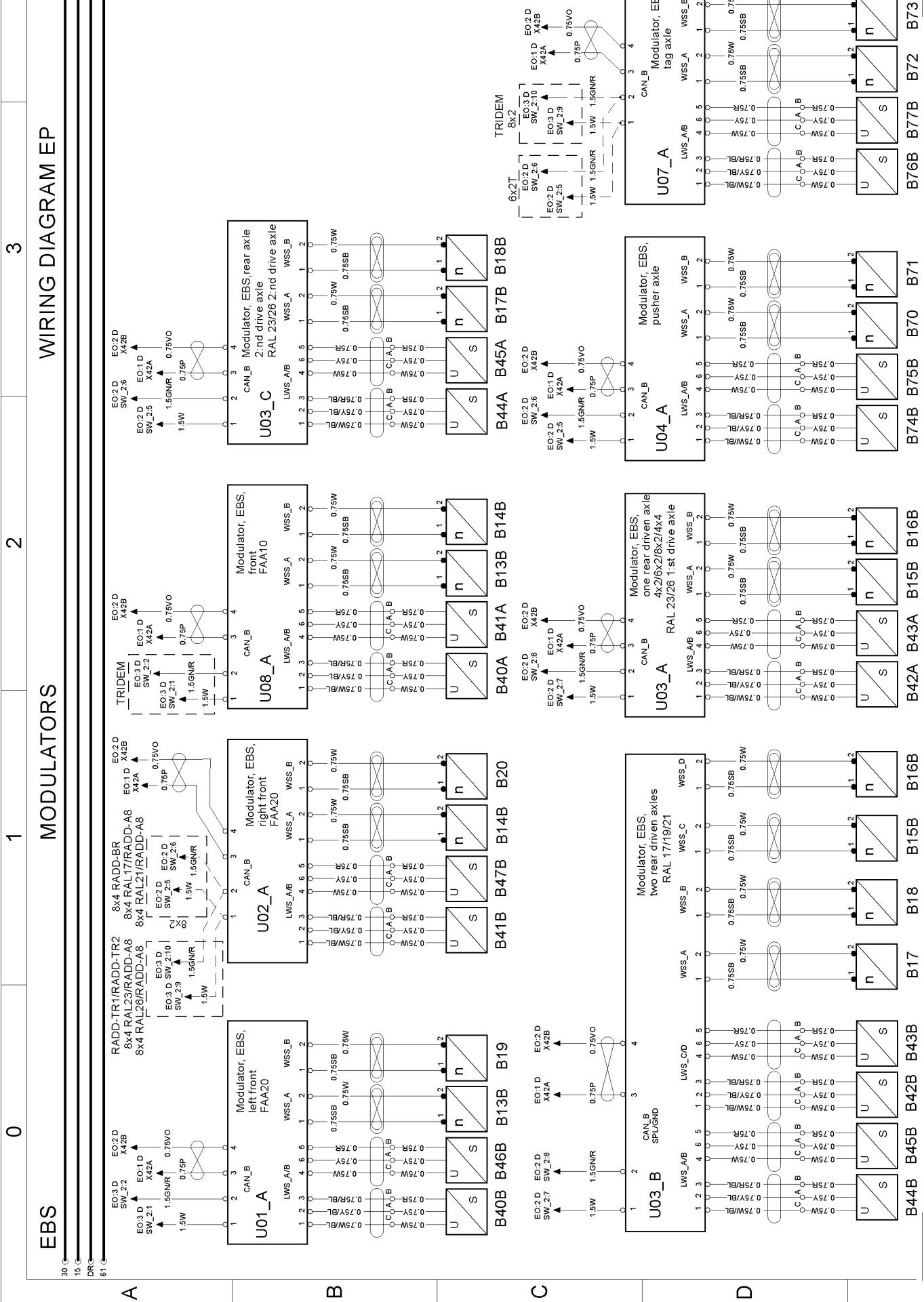












AIR SUSPENSION

XB:1 D XB:3 D
BAB:14 BAB:13

A

WIRING DIAGRAM FA

3

2

1

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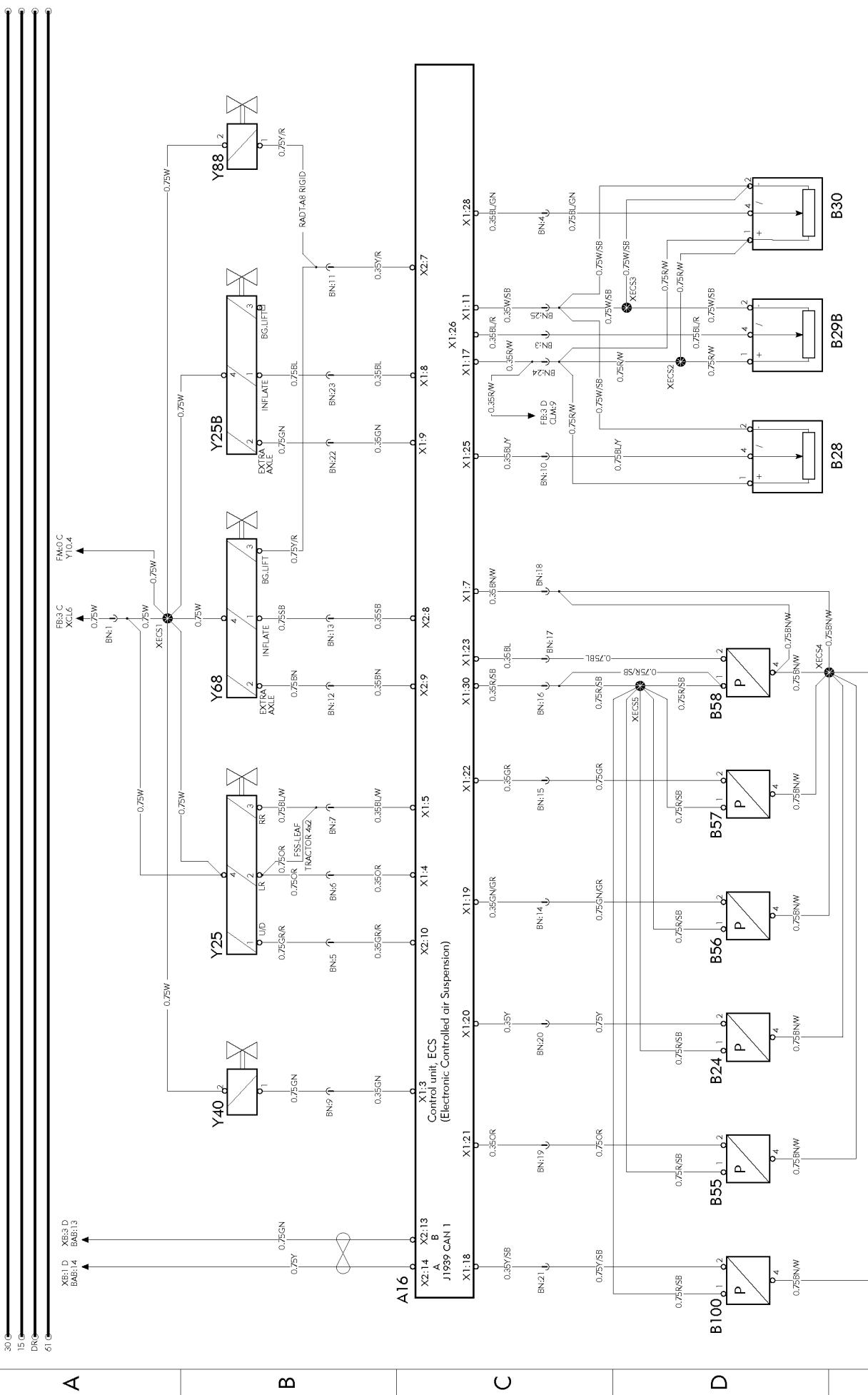
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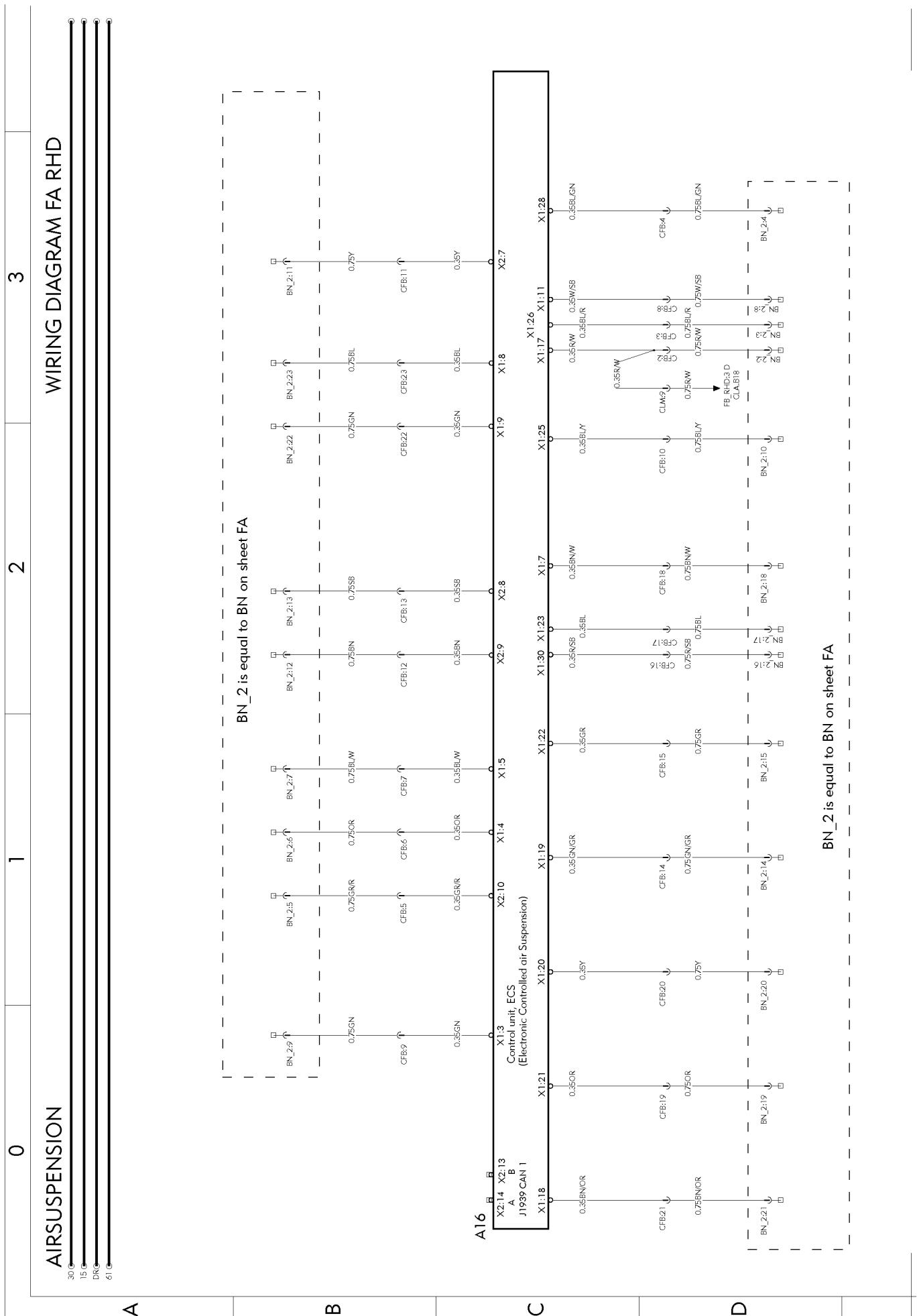
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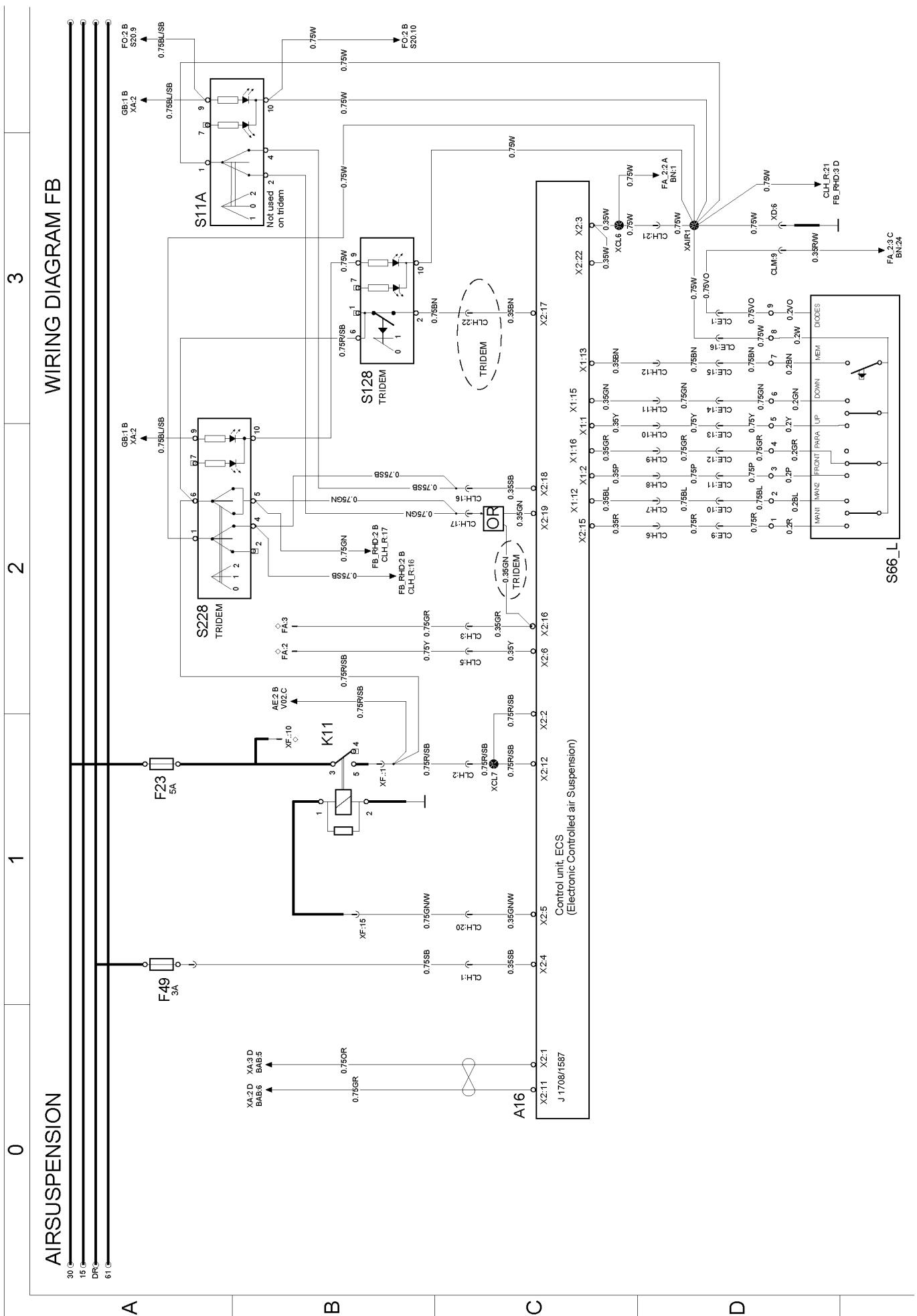
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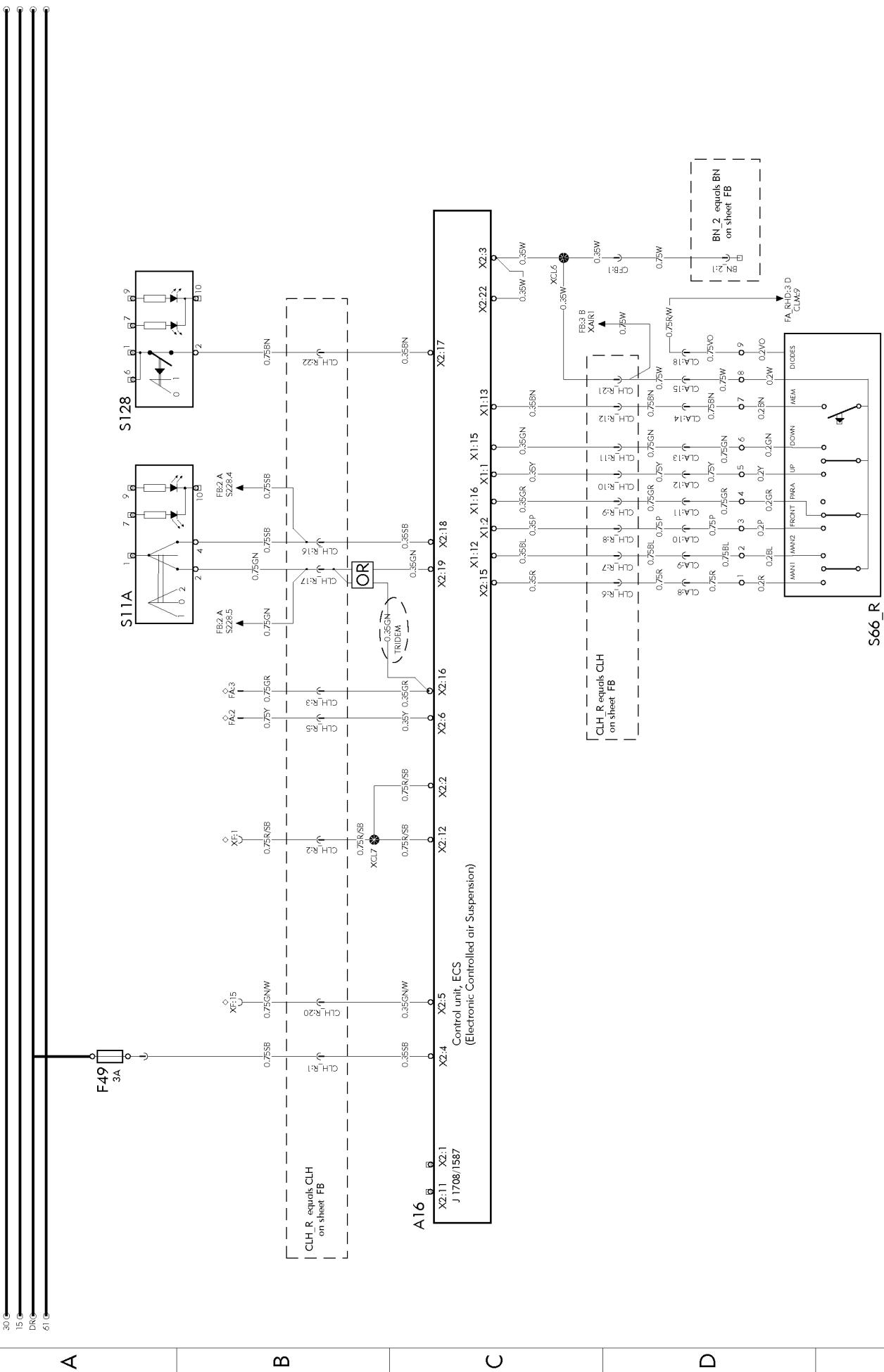
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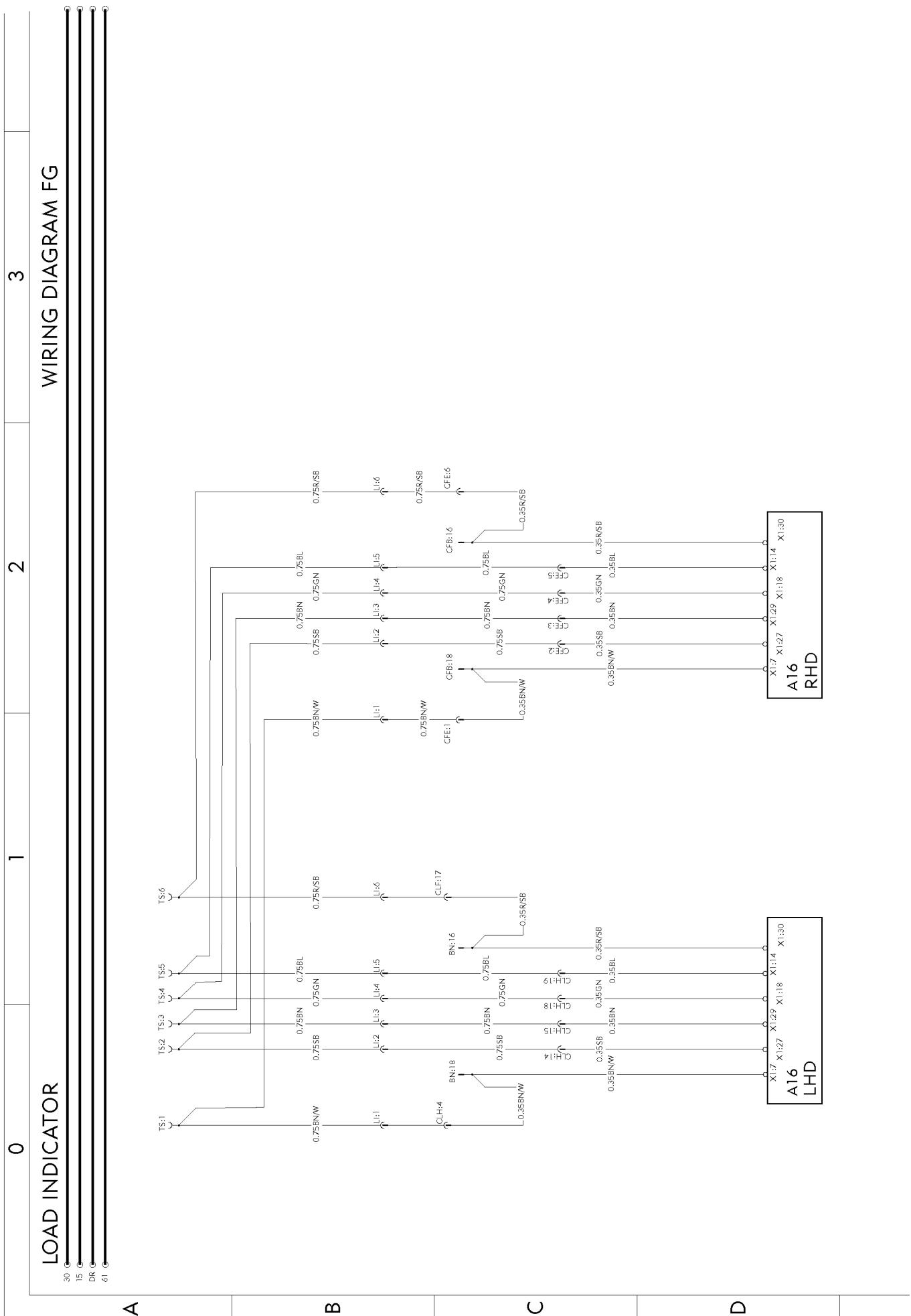
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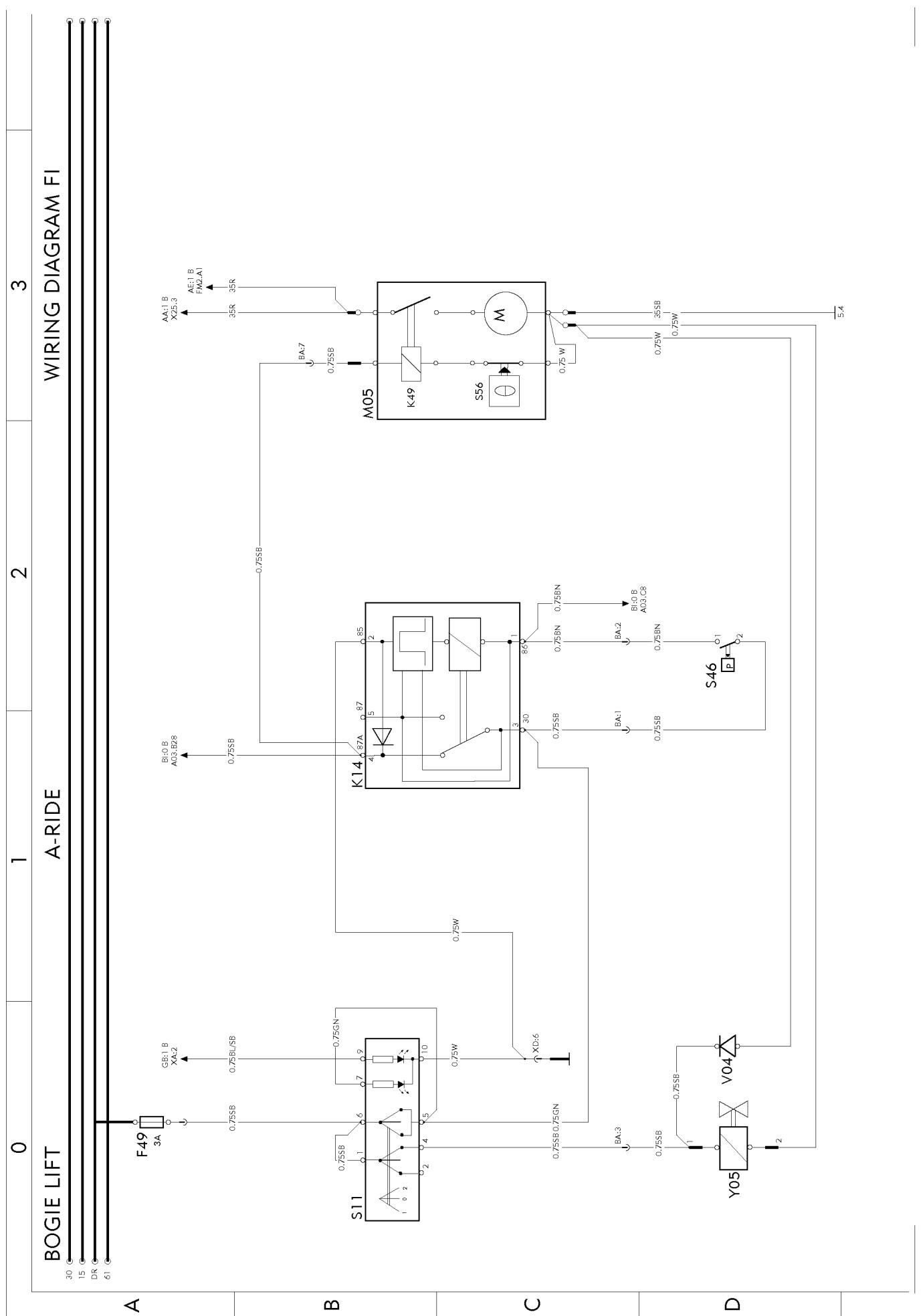
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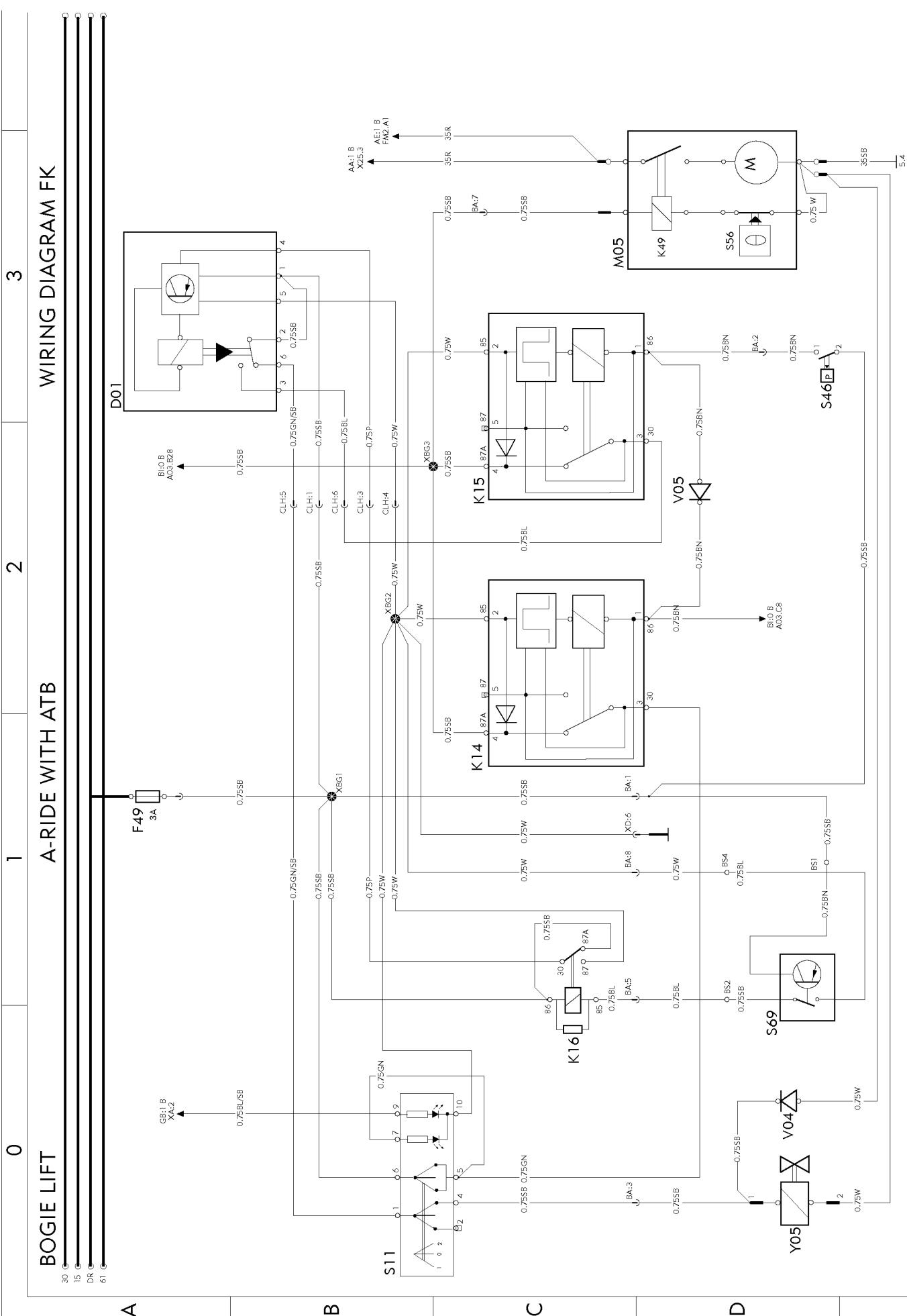
AIR SUSPENSION

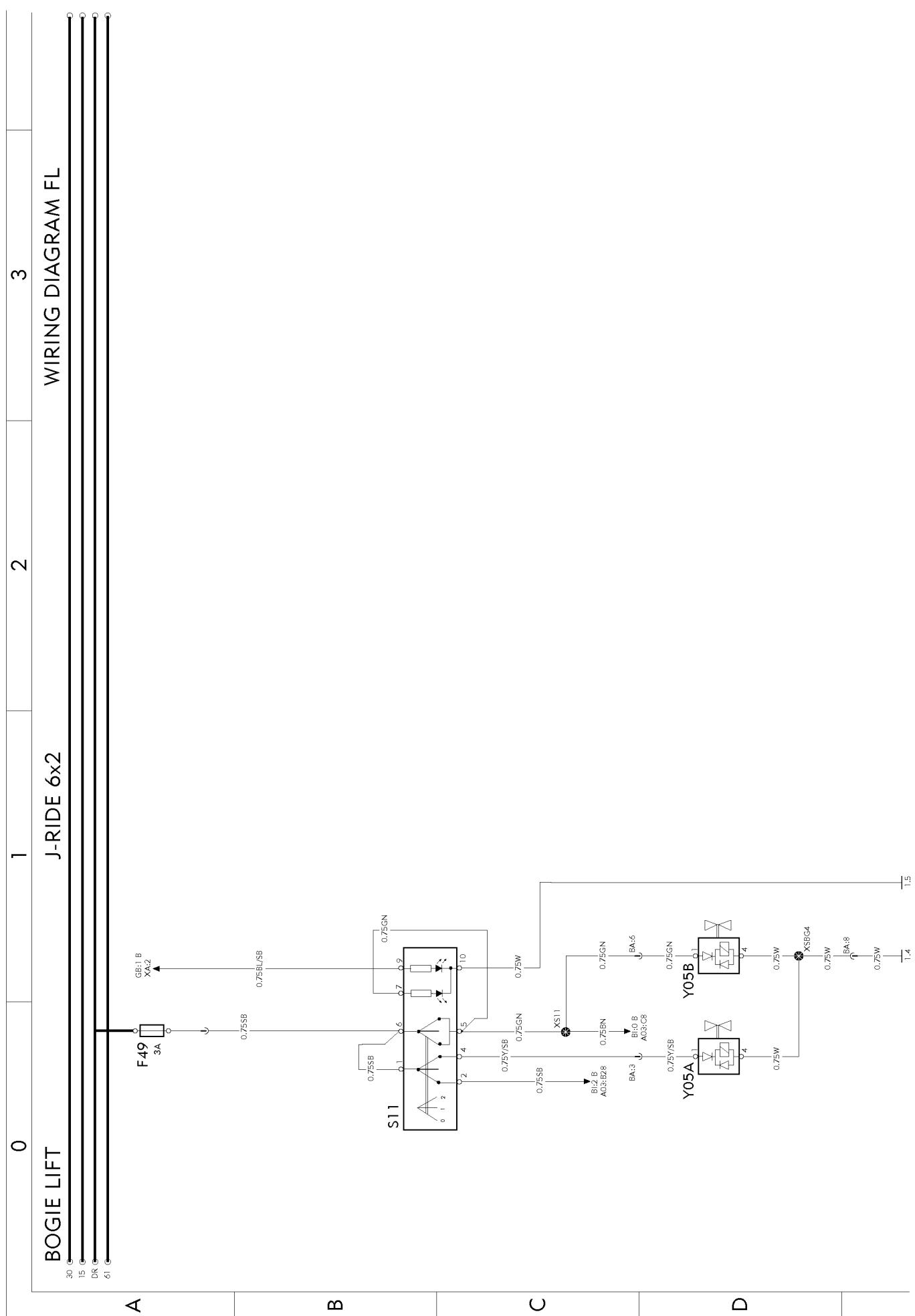
WIRING DIAGRAM FB RHD

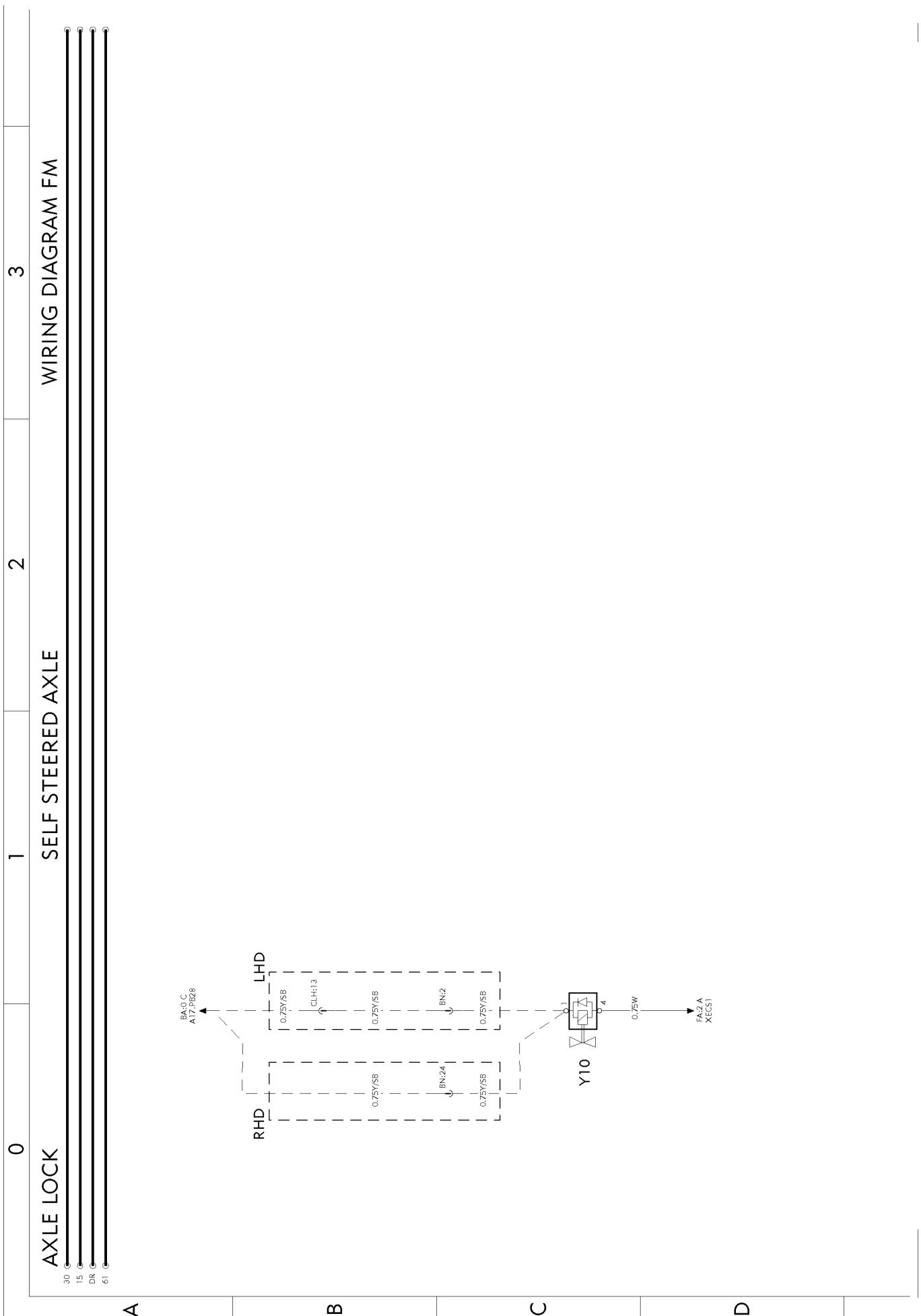












ELECTRONIC STEERED AXLE

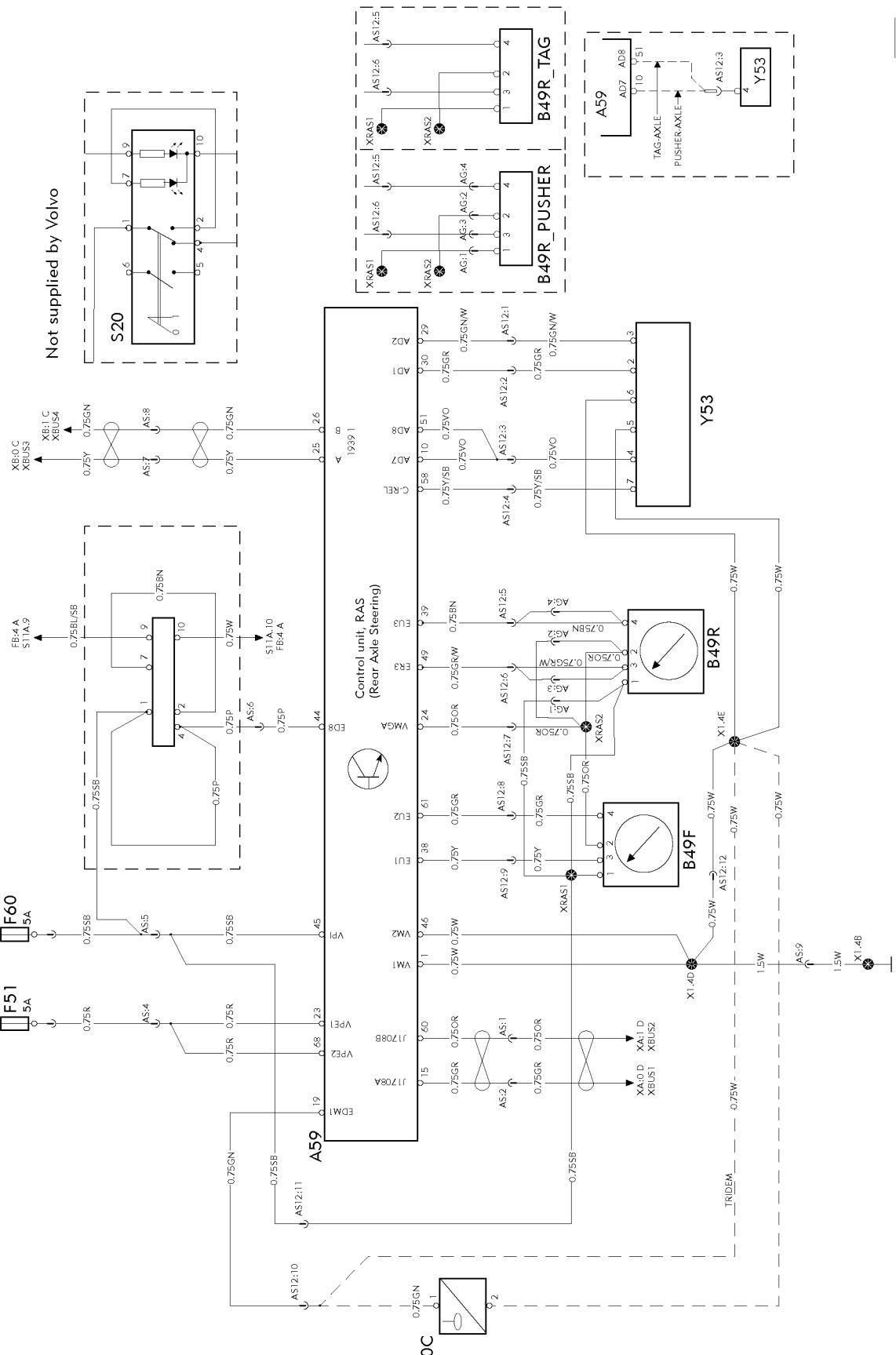
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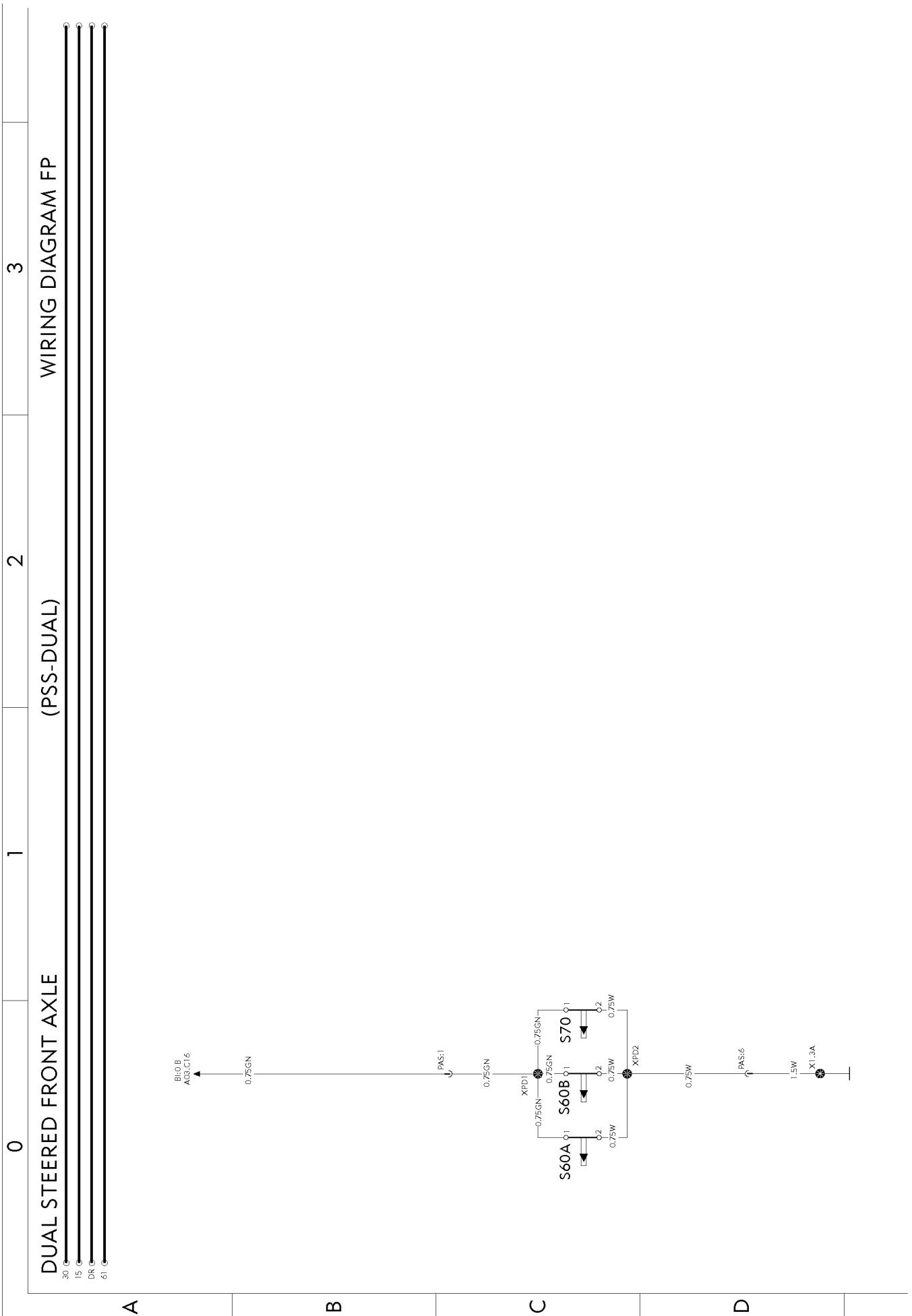
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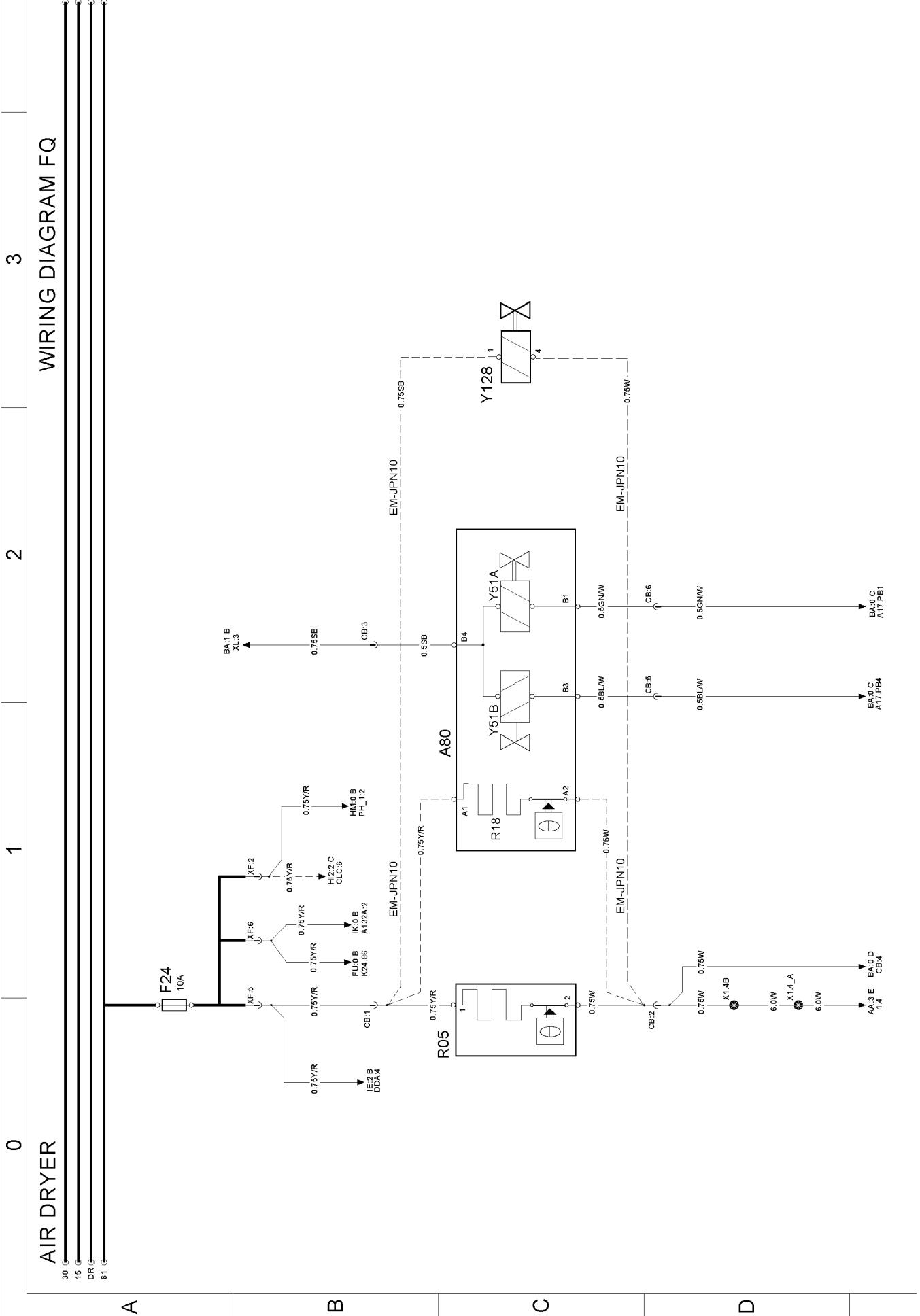
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3

WIRING DIAGRAM FO







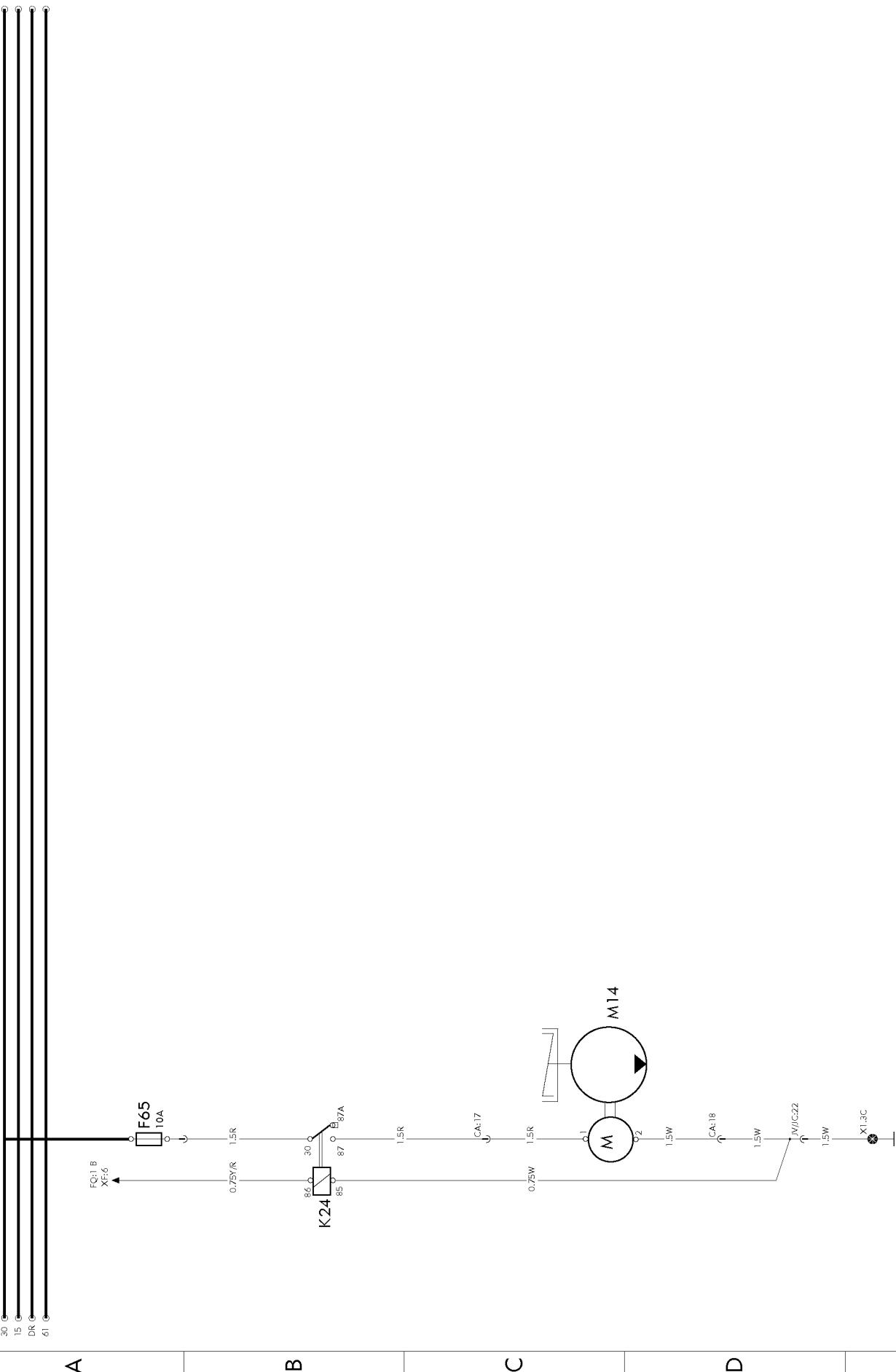
CENTRAL LUBRICATION SYSTEM

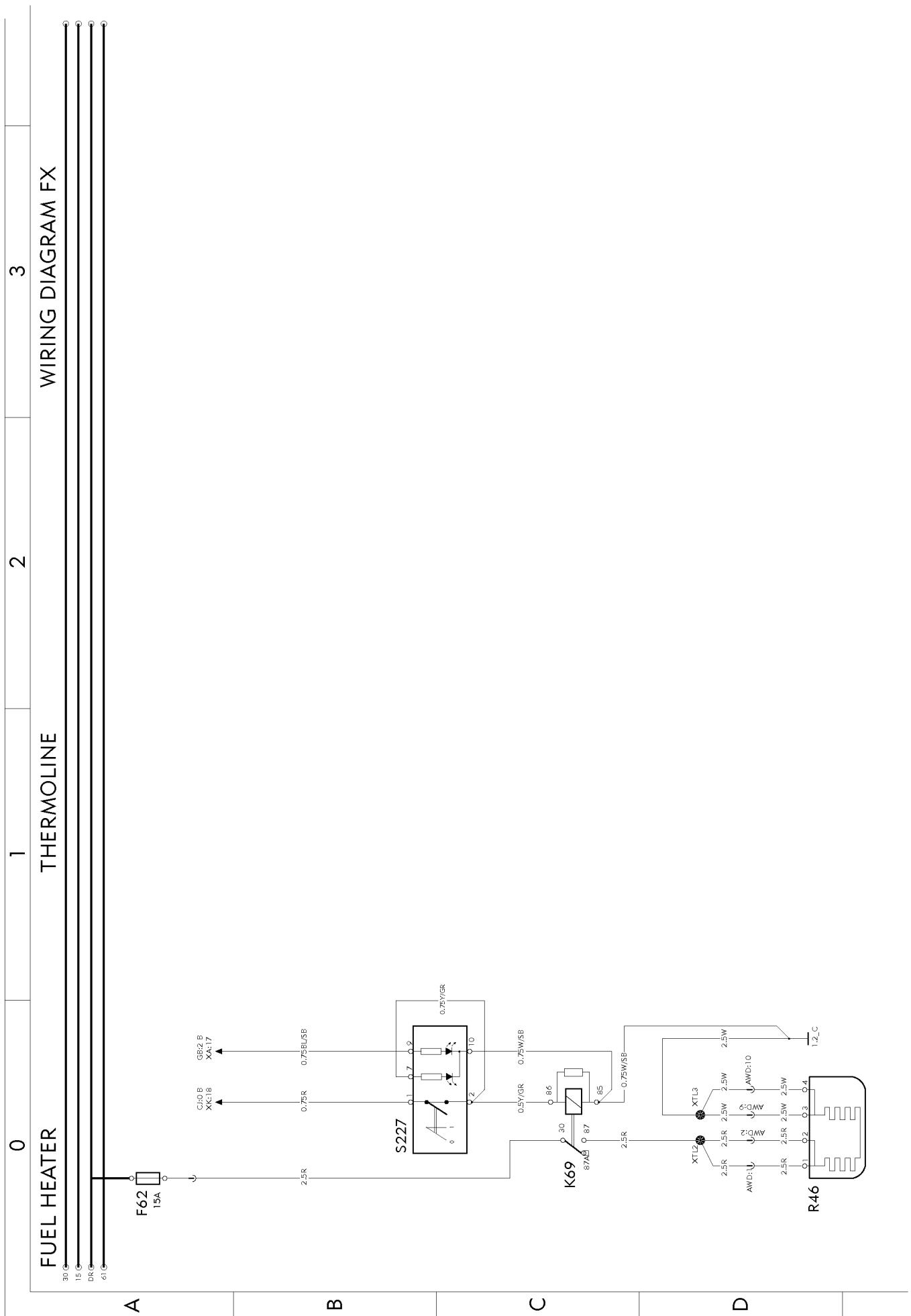
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WIRING DIAGRAM FU

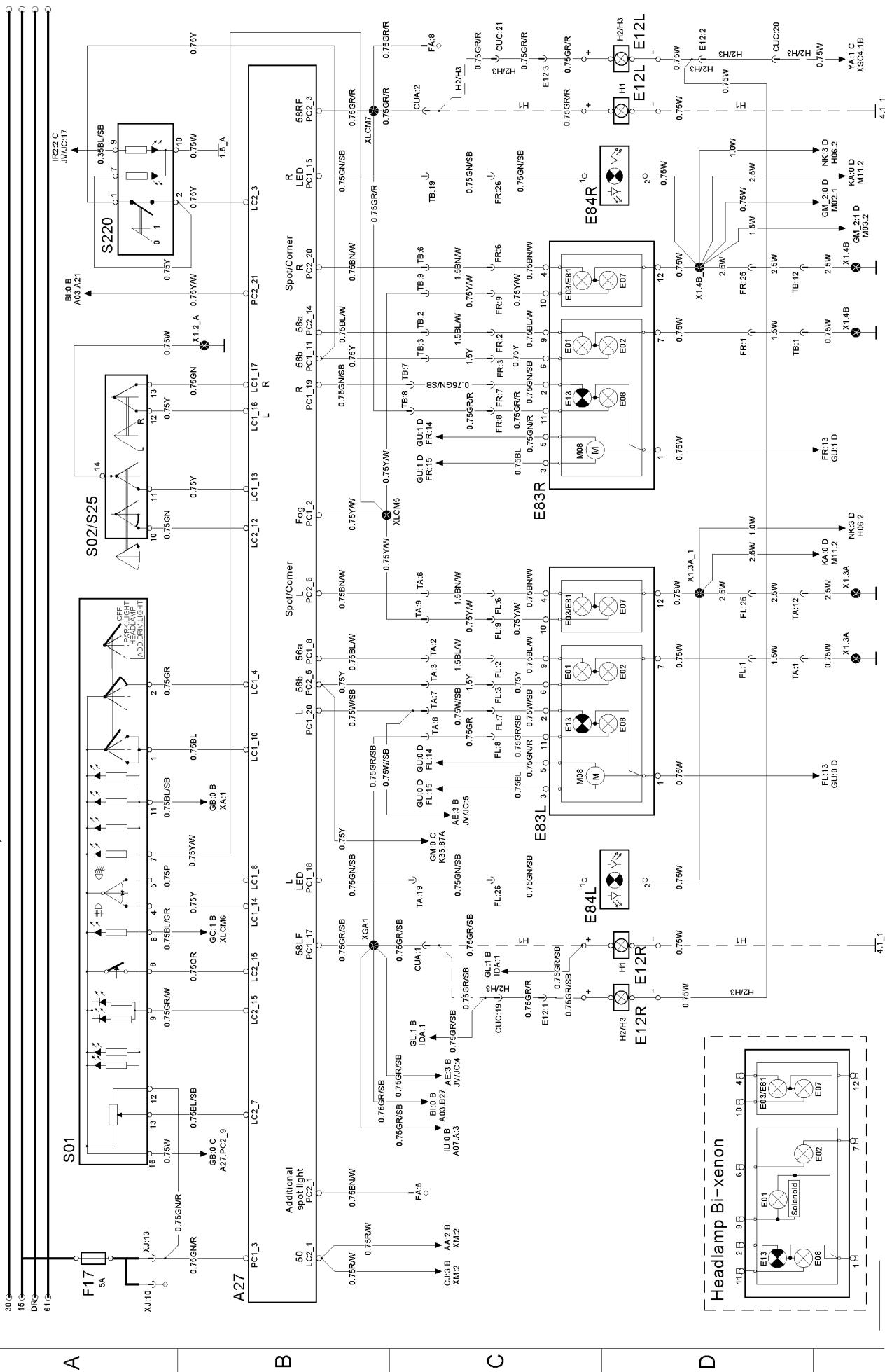
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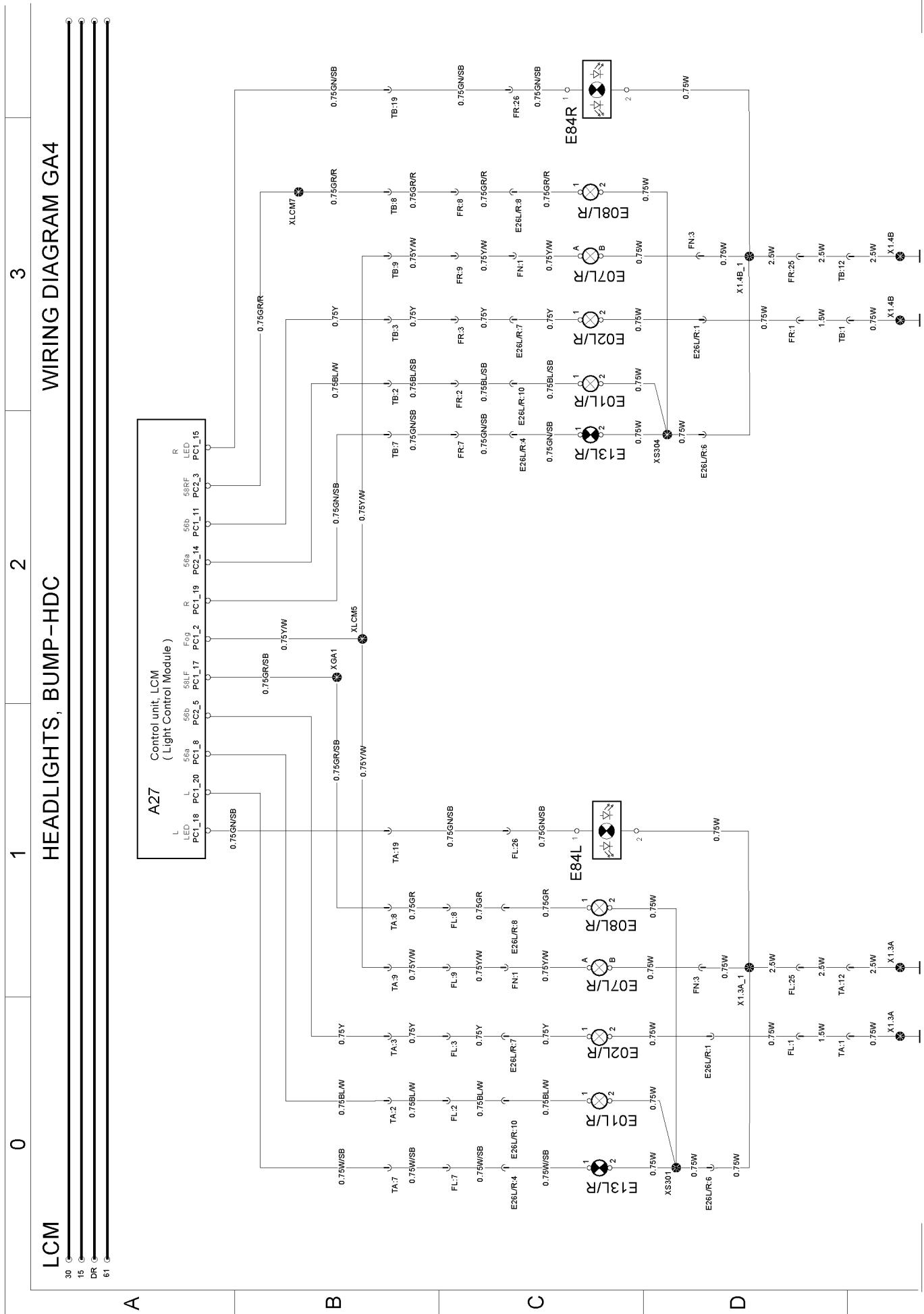
1





WIRING DIAGRAM GA HEADLIGHT, BUMP-S / BUMP-P / BUMP-SC





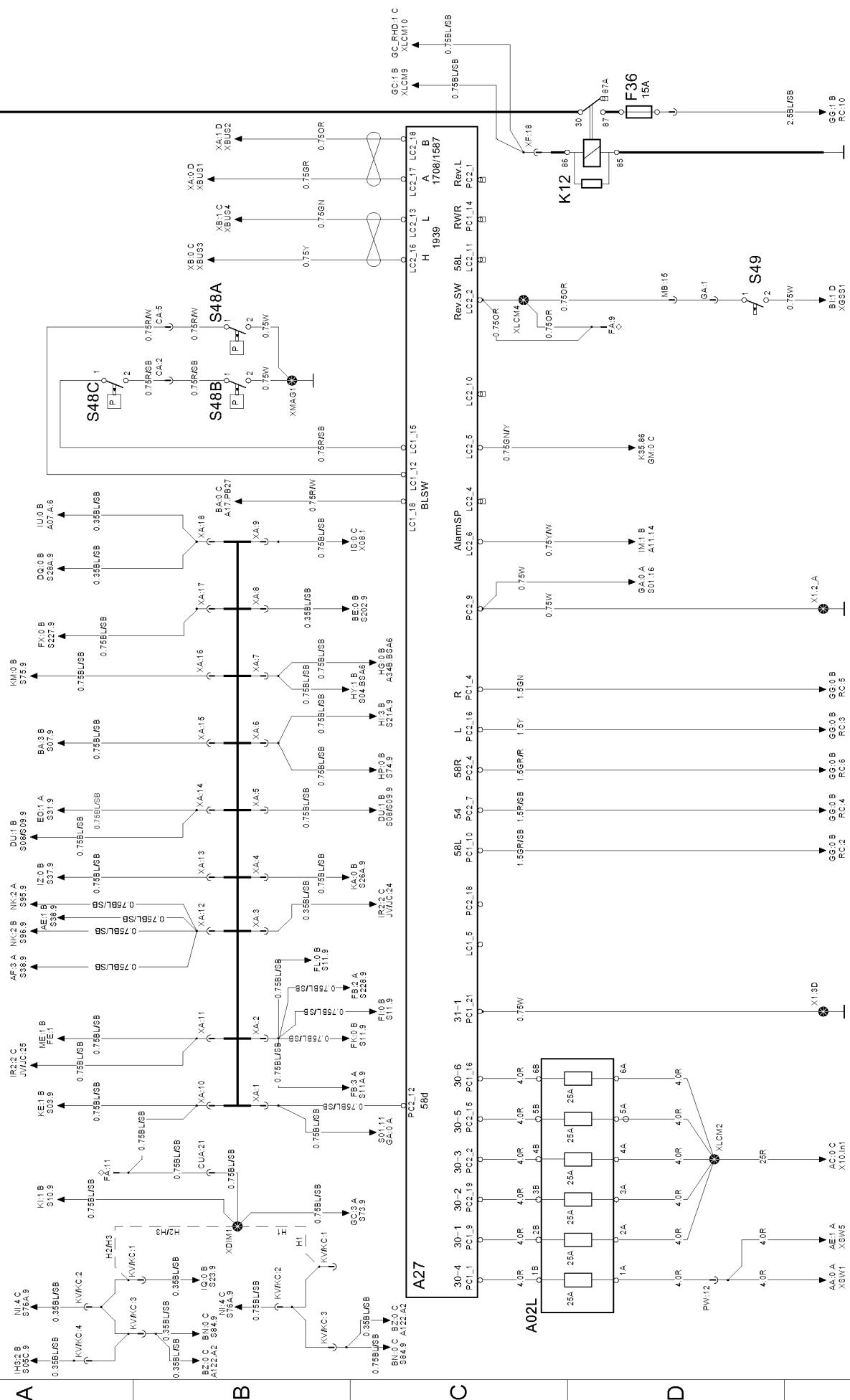
TRAILER

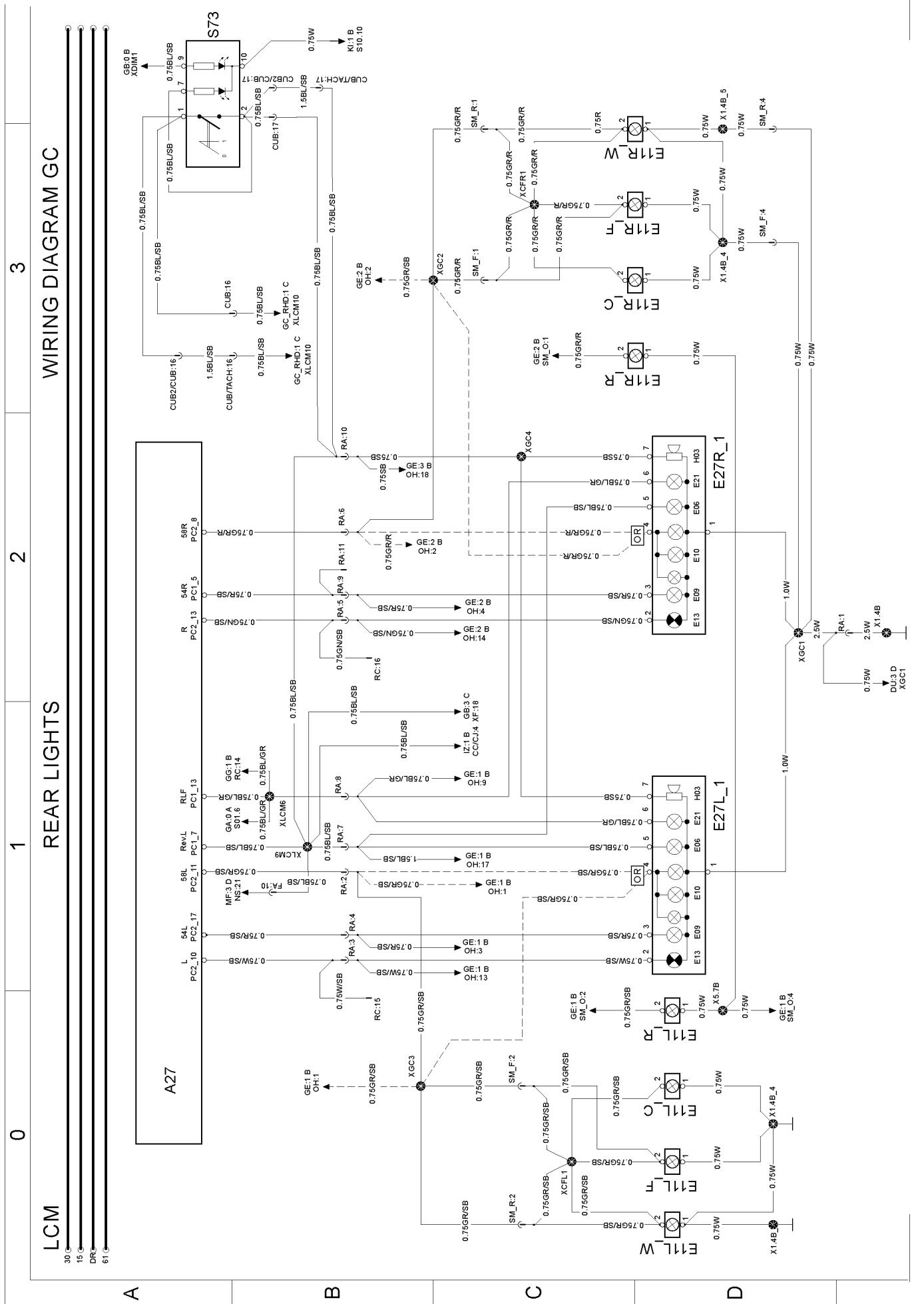
WIRING DIAGRAM GB

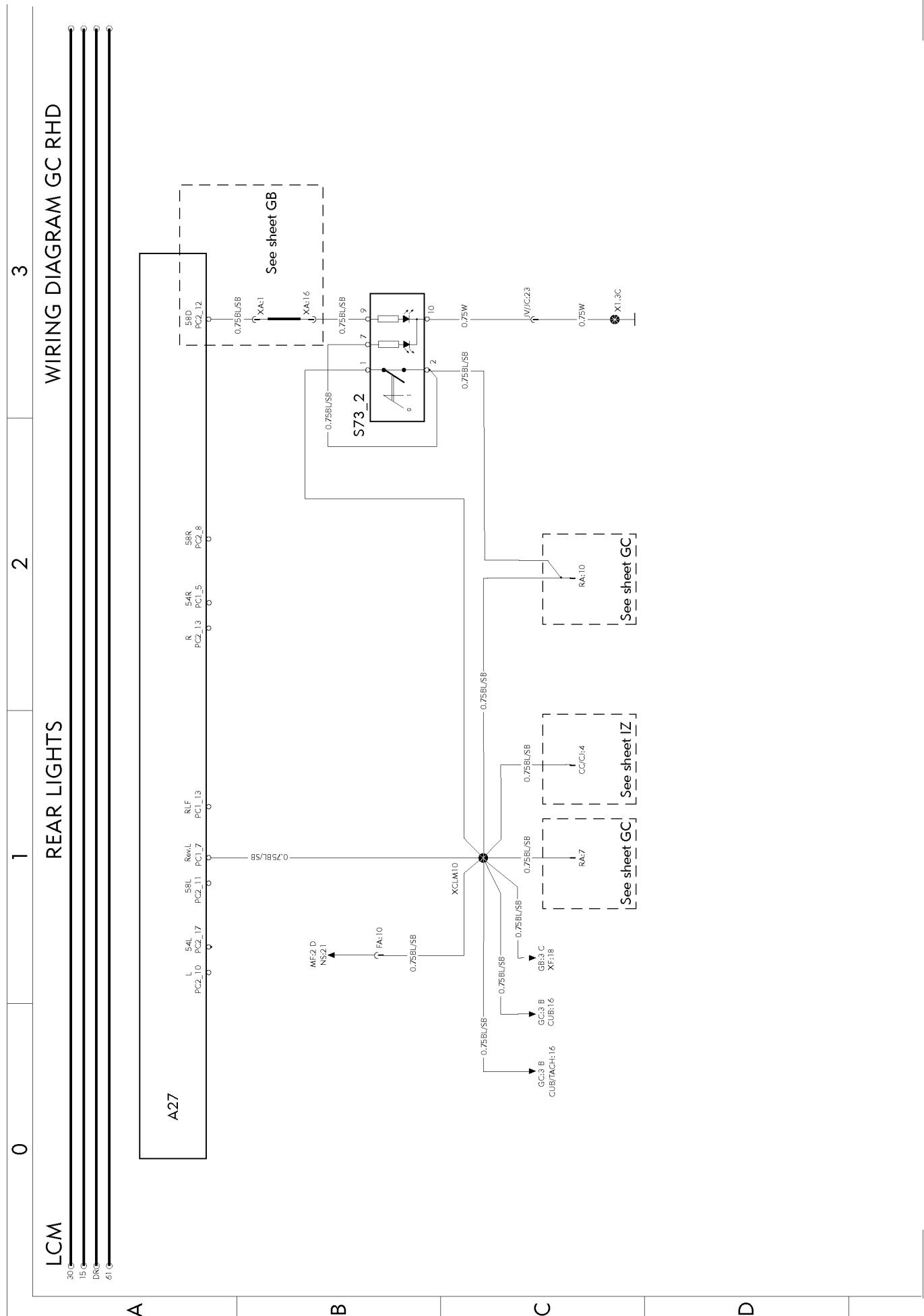
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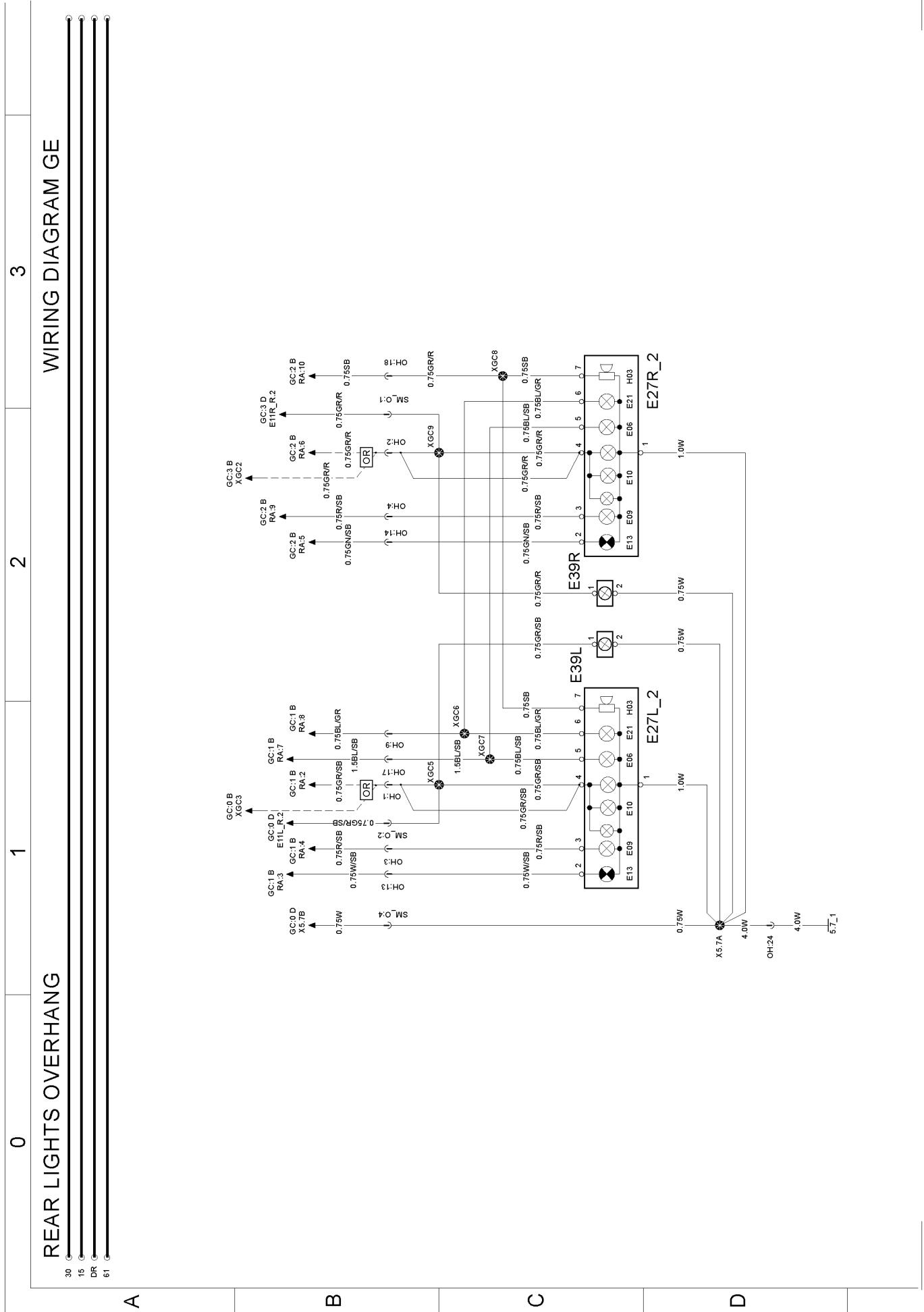
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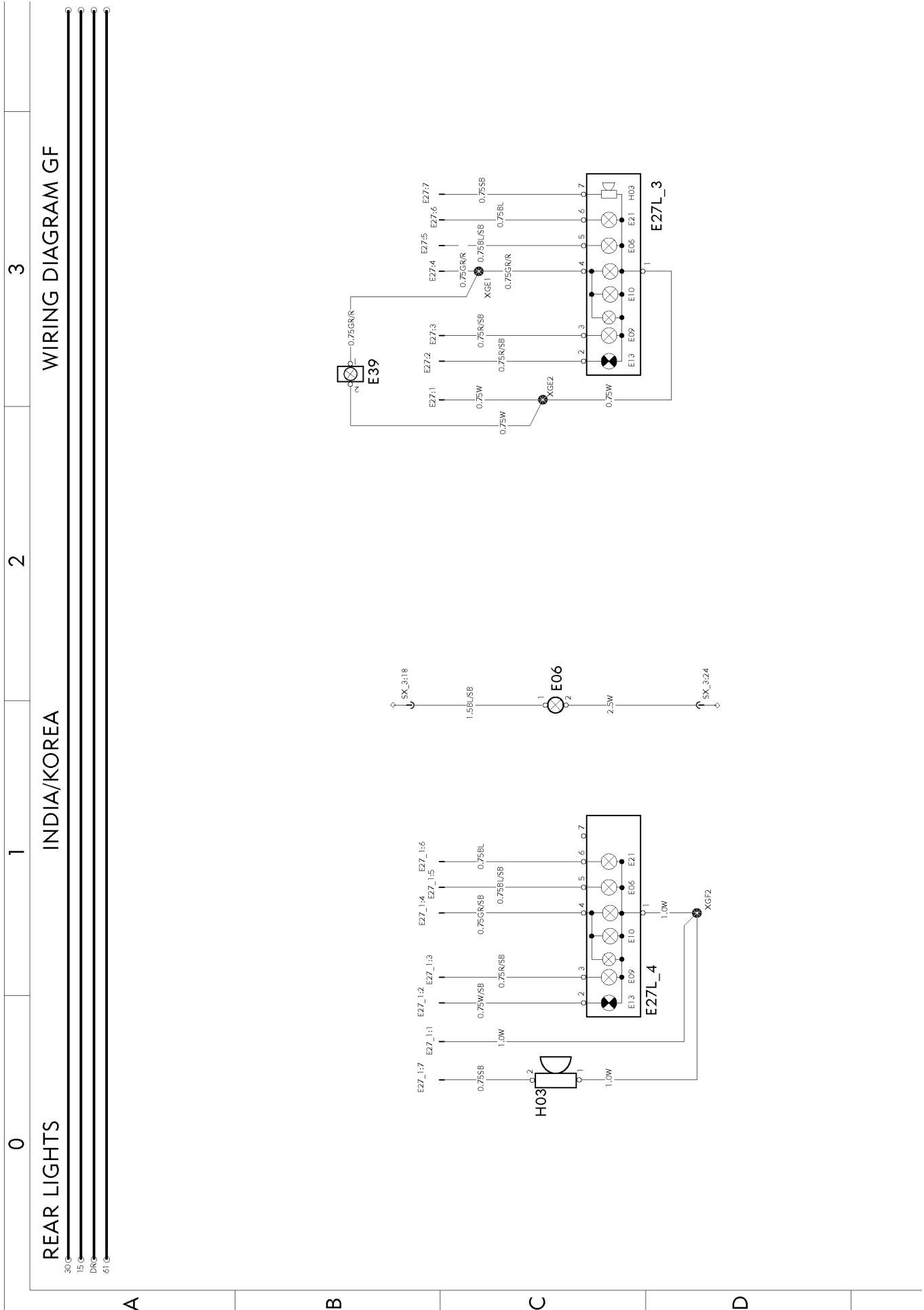
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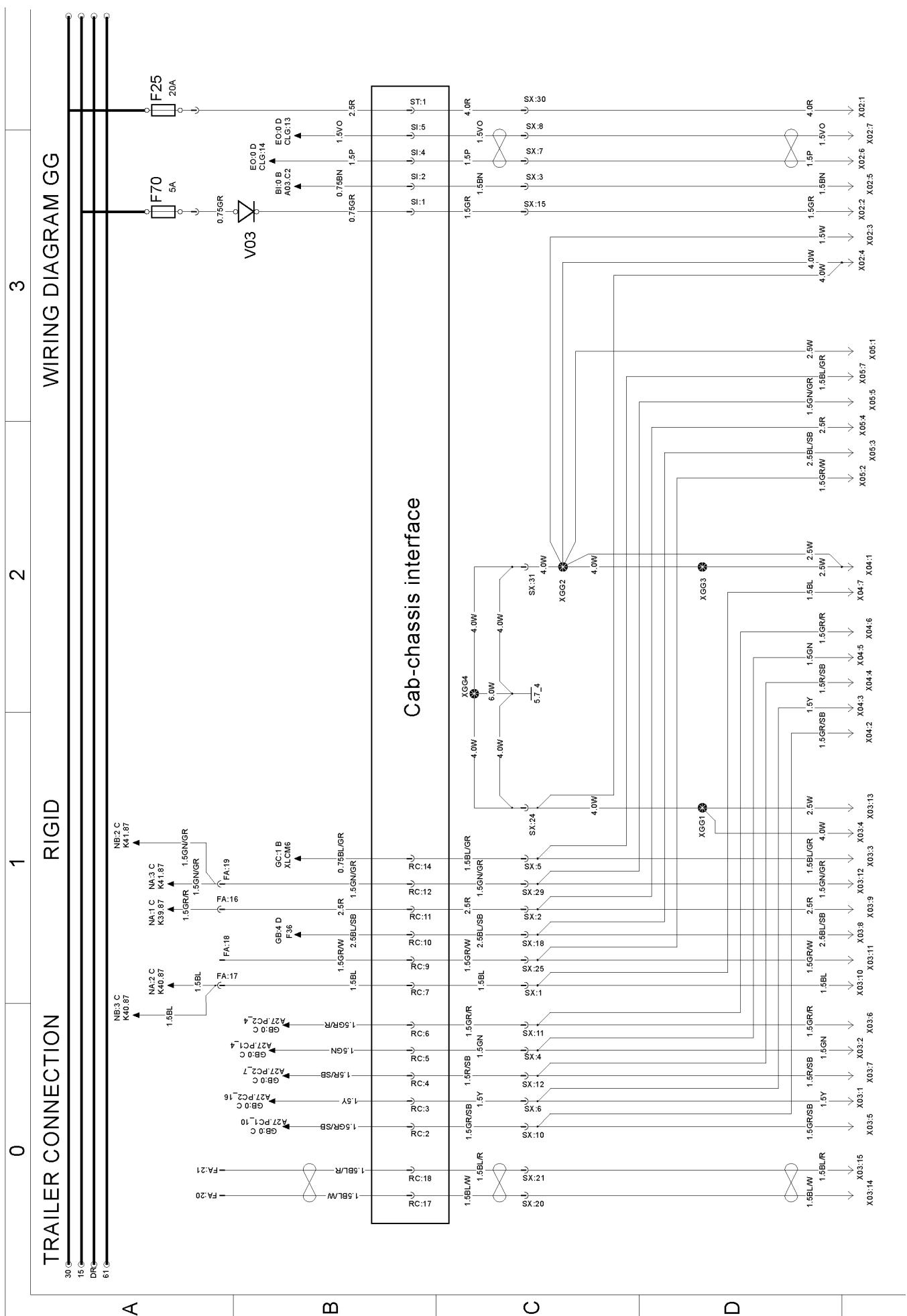












TRAILER CONNECTION

0 1 2 3

18
DIRC
6

See cab-chassis interface sheet:

The diagram illustrates the wiring connections between three main modules: KE, GG, and E05.

- KE (Trailer Connection):** Located at the top left, it has four vertical lines labeled 0.75BL, 0.75W, 1.5BL/GR, and 1.5BUR. The 1.5BUR line connects to the 1.5BUR line of the GG module. The 0.75W line connects to the 0.75W line of the GG module. The 1.5BL/GR line connects to the 1.5BL/GR line of the GG module. The 0.75BL line connects to the 0.75BL line of the GG module.
- GG (Cab-Chassis Interface):** Located in the center, it contains several groups of wires:
 - Top Group:** RC2:18, RC2:17, RC2:16, RC2:15, RC2:14, RC2:11, RC2:10, RC2:9, RC2:8, RC2:7, RC2:6, RC2:5, RC2:4, RC2:3, RC2:2, RC2:1, RC2:12, RC2:19, RC2:20, RC2:21, RC2:22, RC2:23, RC2:24, RC2:25, RC2:26, RC2:27, RC2:28, RC2:29, RC2:30, RC2:31, RC2:32, RC2:33, RC2:34, RC2:35, RC2:36, RC2:37.
 - Middle Group:** ST2:1, ST2:2, ST2:3, ST2:4, ST2:5, ST2:6, ST2:7, ST2:8, ST2:9, ST2:10, ST2:11, ST2:12, ST2:13, ST2:14, ST2:15, ST2:16, ST2:17, ST2:18, ST2:19, ST2:20, ST2:21, ST2:22, ST2:23, ST2:24, ST2:25, ST2:26, ST2:27.
 - Bottom Group:** X03_2:1, X03_2:2, X03_2:3, X03_2:4, X03_2:5, X03_2:6, X03_2:7, X03_2:8, X03_2:9, X03_2:10, X03_2:11, X03_2:12, X03_2:13, X03_2:14, X03_2:15, X04_2:1, X04_2:2, X04_2:3, X04_2:4, X04_2:5, X04_2:6, X04_2:7, X02_2:1, X02_2:2, X02_2:3, X02_2:4, X02_2:5, X02_2:6, X02_2:7.
- E05 (Power Source):** Located at the bottom right, it shows a power source with two output lines: 1.5VCO and 1.5VOC.

TRAILER CONNECTIONS (AUS ONLY)

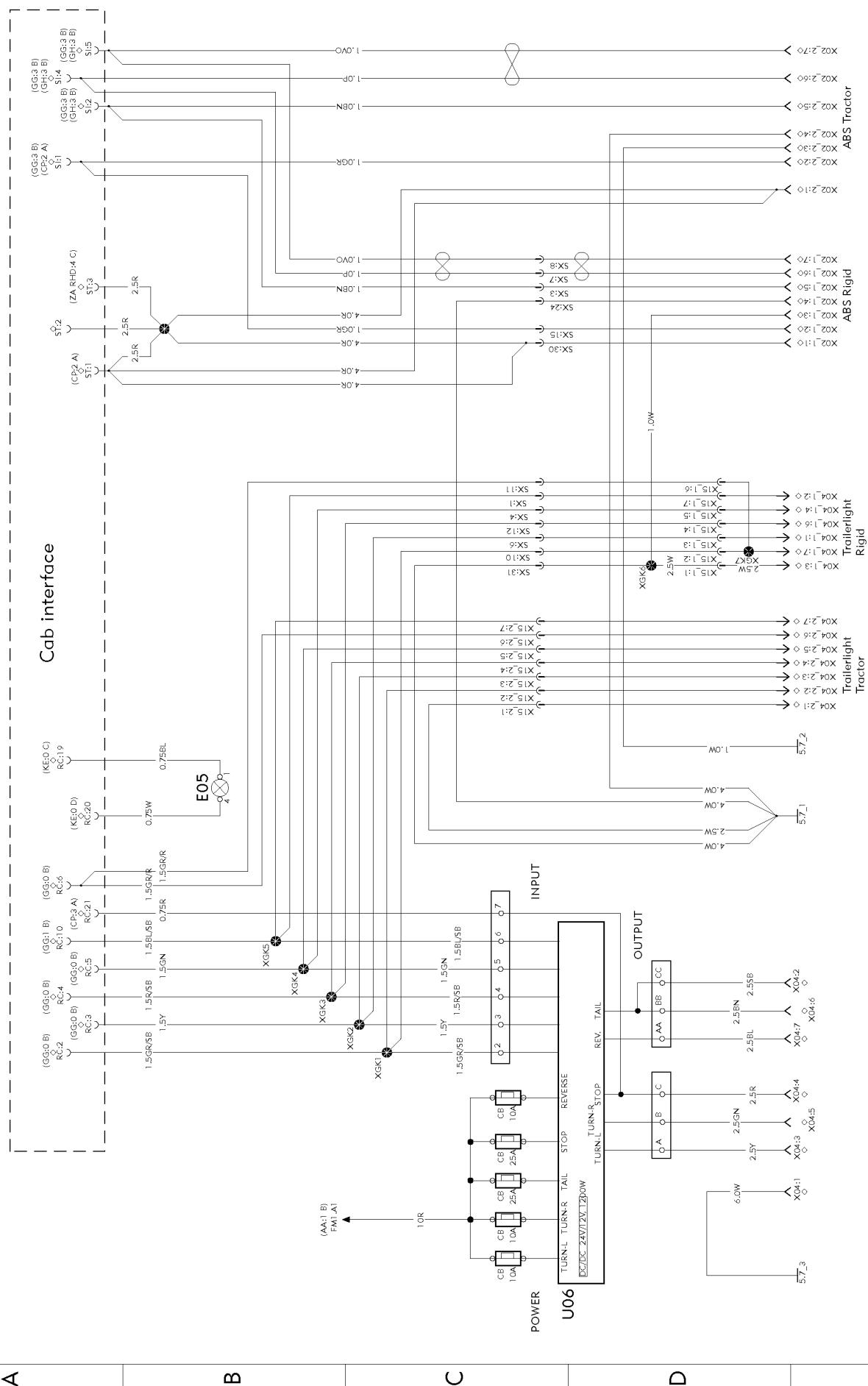
○

1

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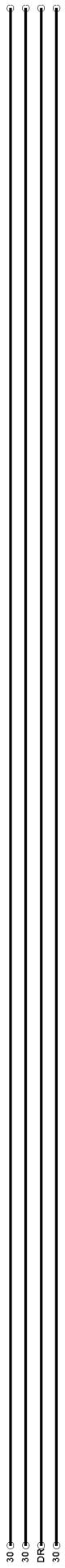
WIRING DIAGRAM GK



IDENTIFICATION LAMPS

0 1 2 3

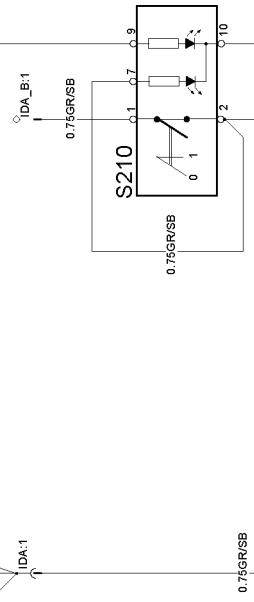
WIRING DIAGRAM GL



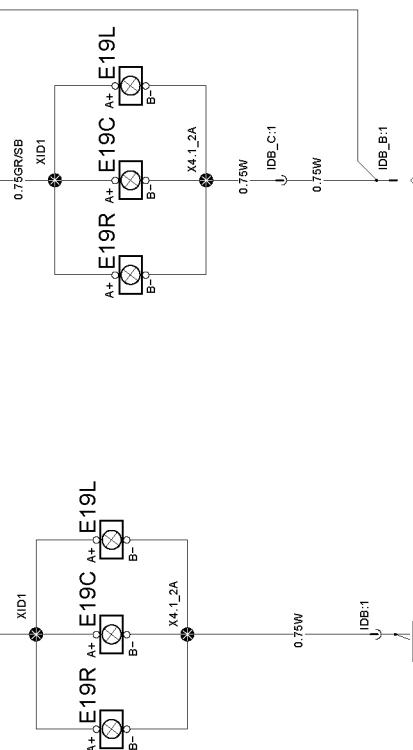
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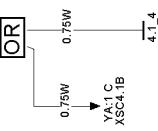
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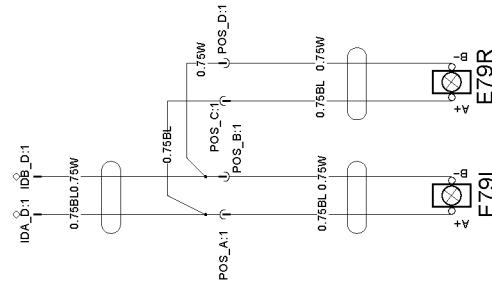
C



D



India, position lights roof rear



T3059897

IDENTIFICATION LAMP

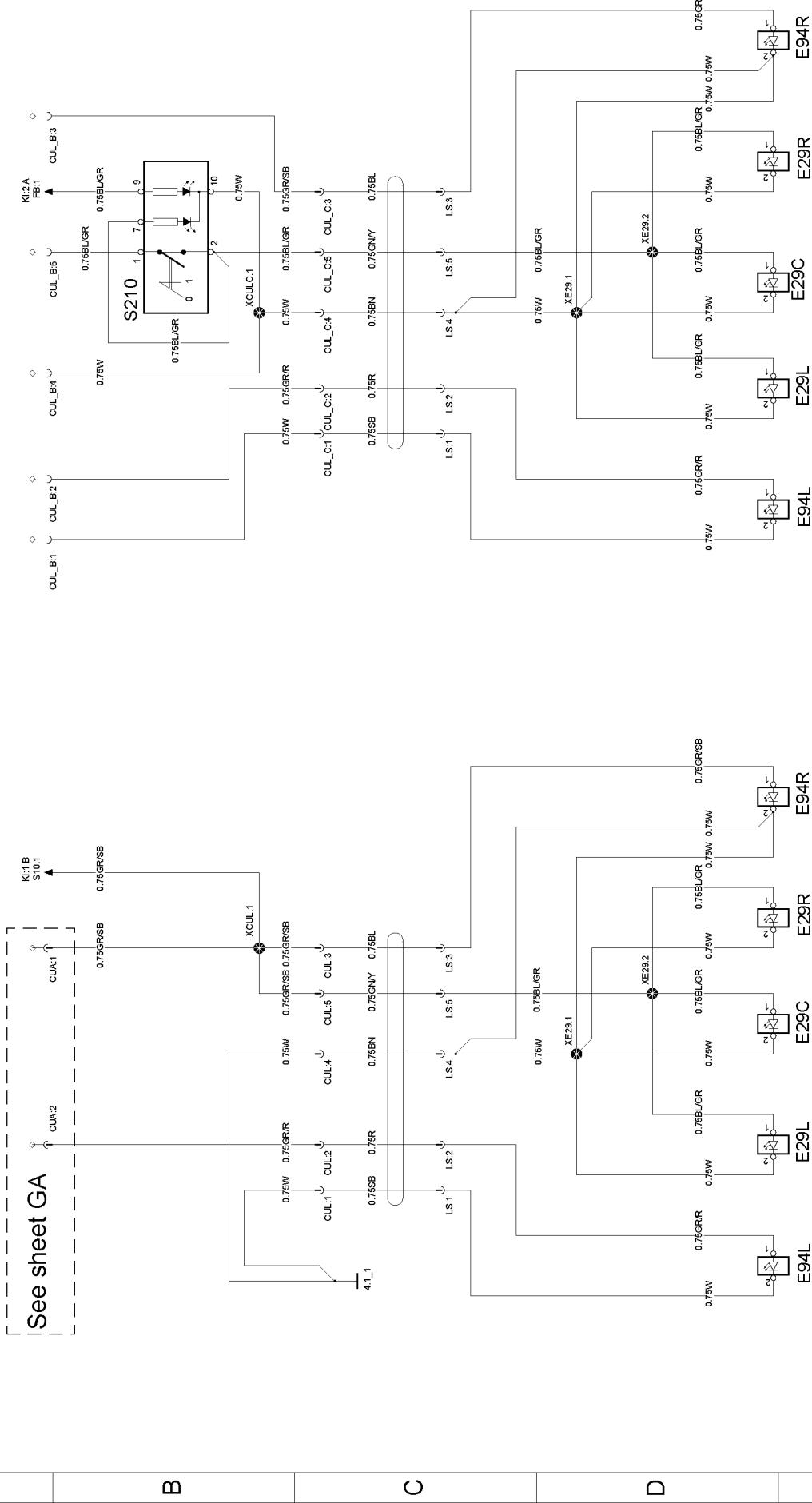
30 C
30 C
DR
61 C

SUNVISOR H1

See sheet GA

0 1 2 3

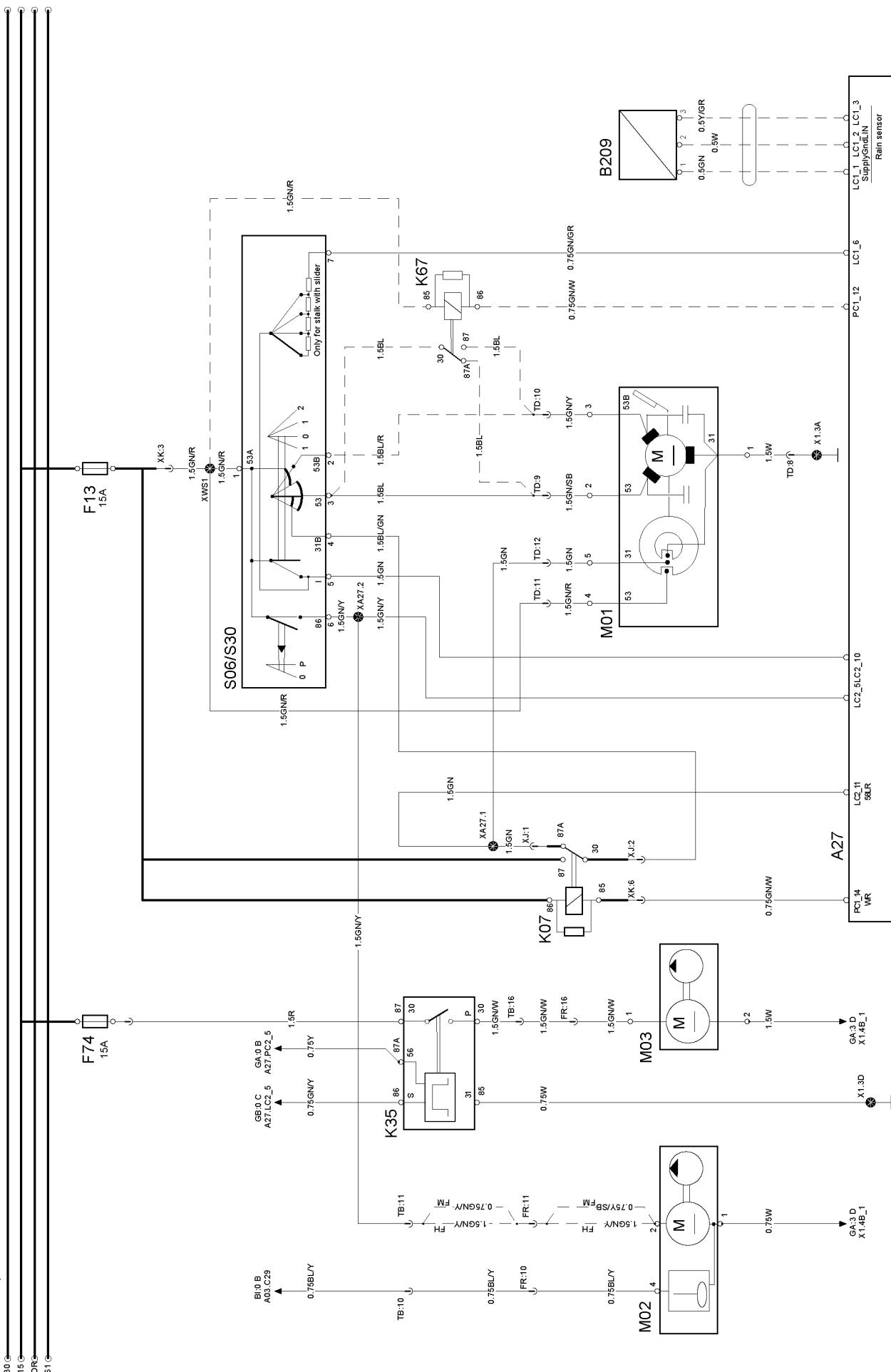
WIRING DIAGRAM GL2

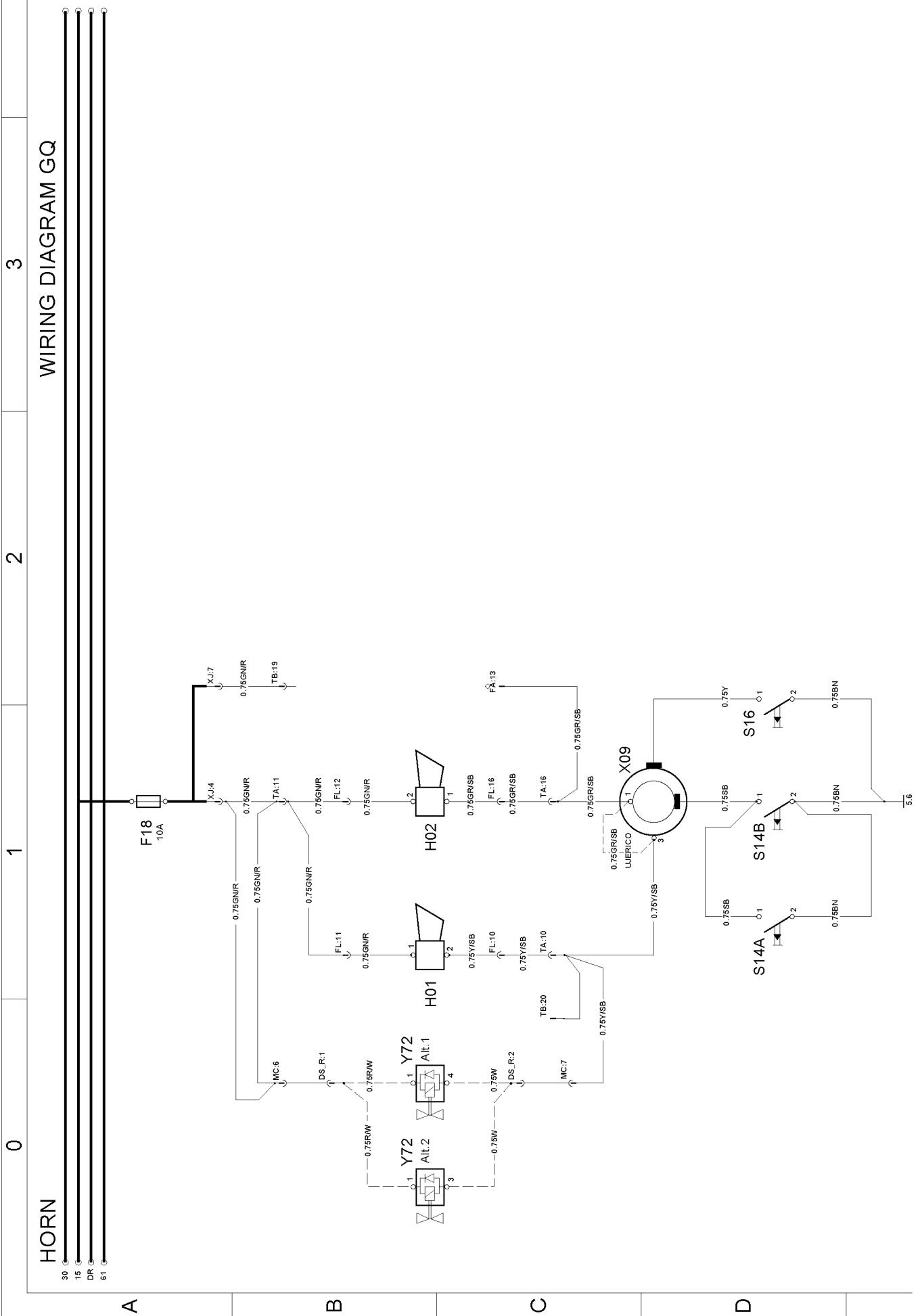


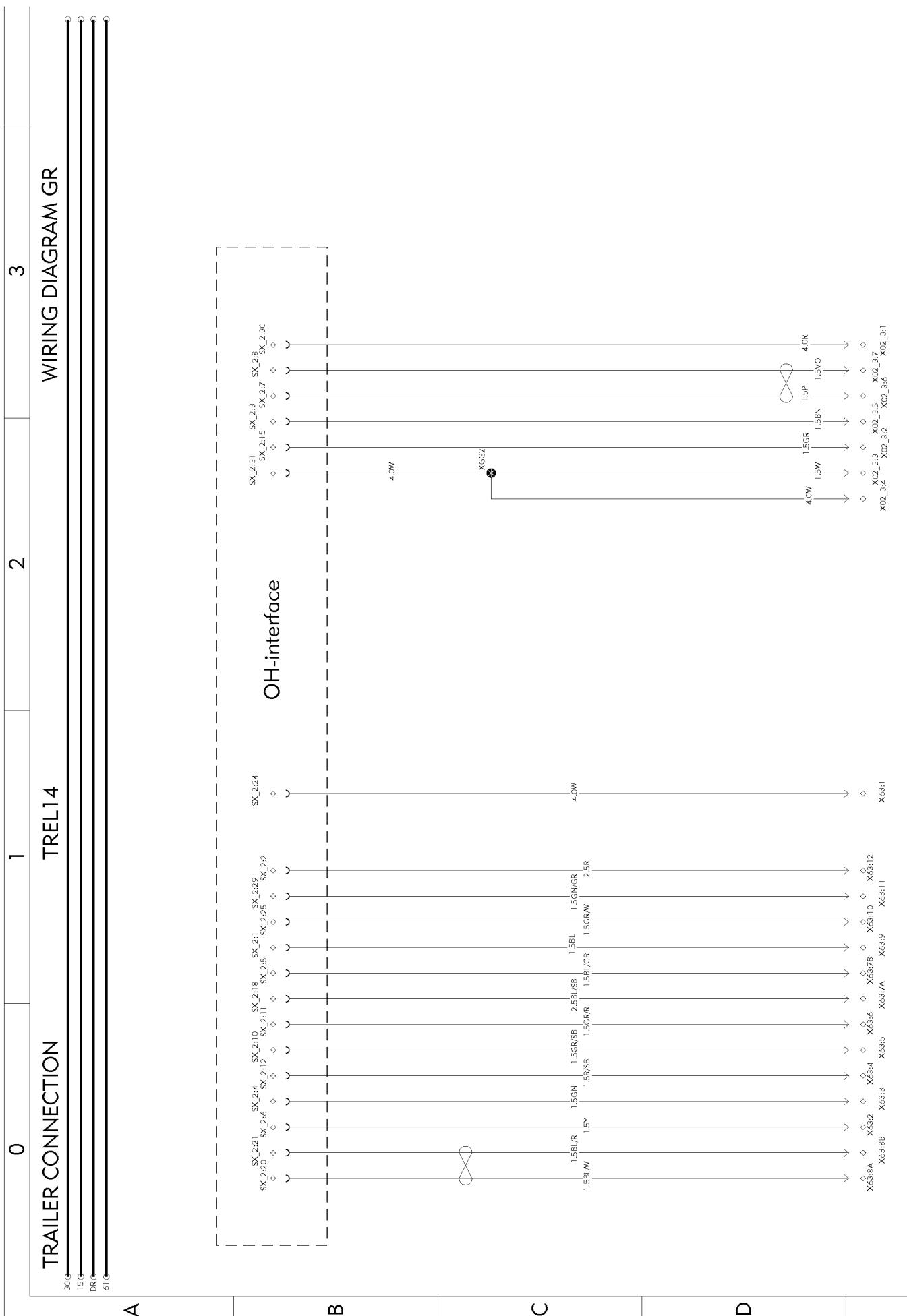
WIPER RAINSENSOR

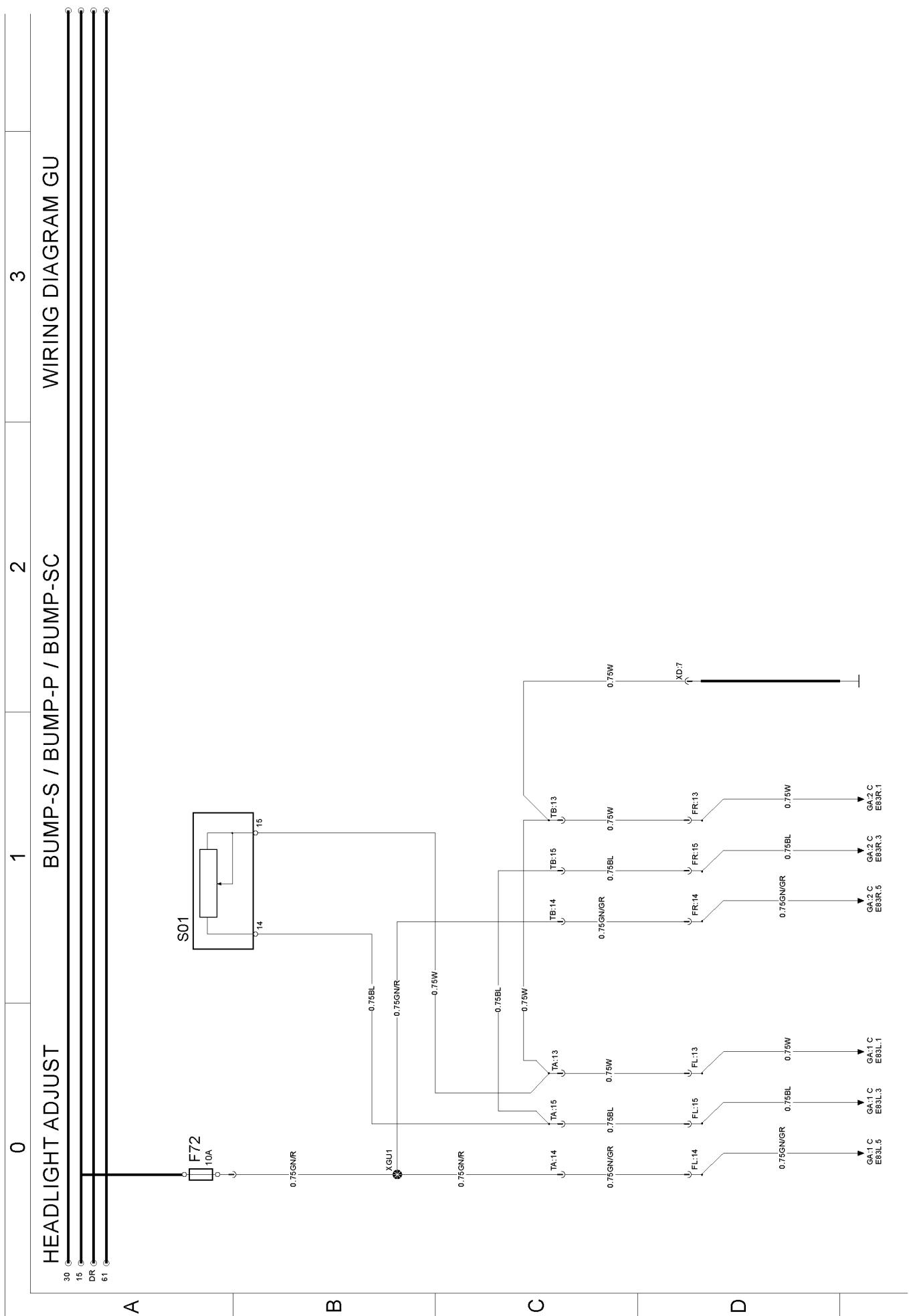
30 C

WIRING DIAGRAM GM









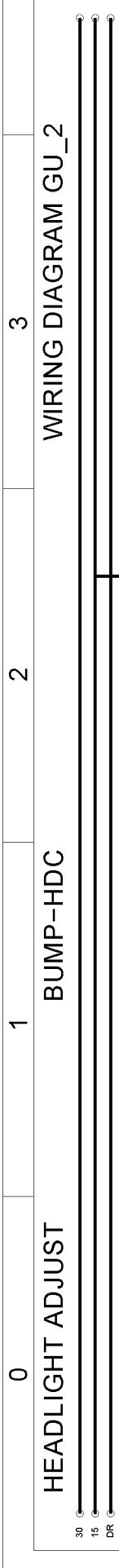
HEADLIGHT ADJUST

2

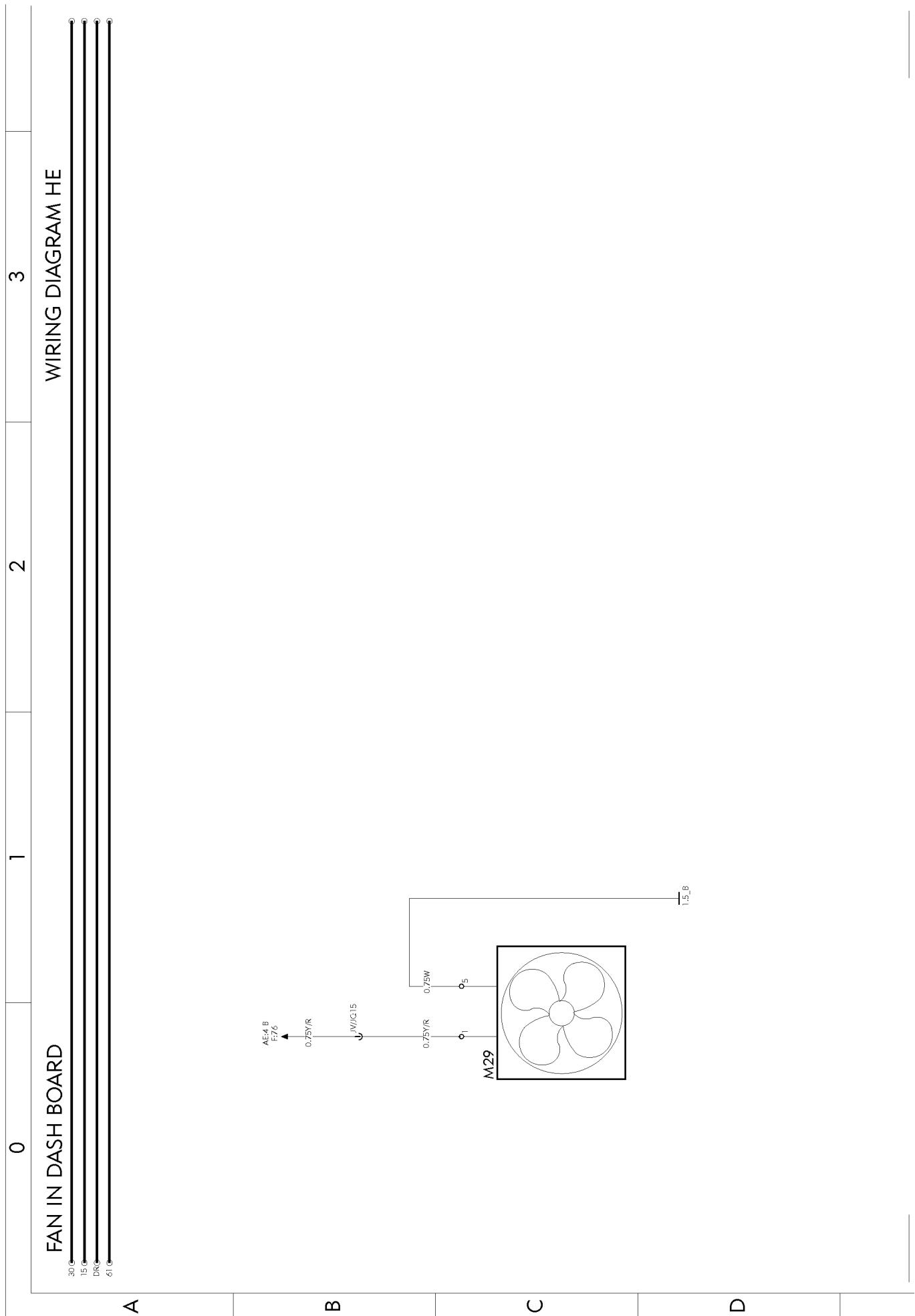
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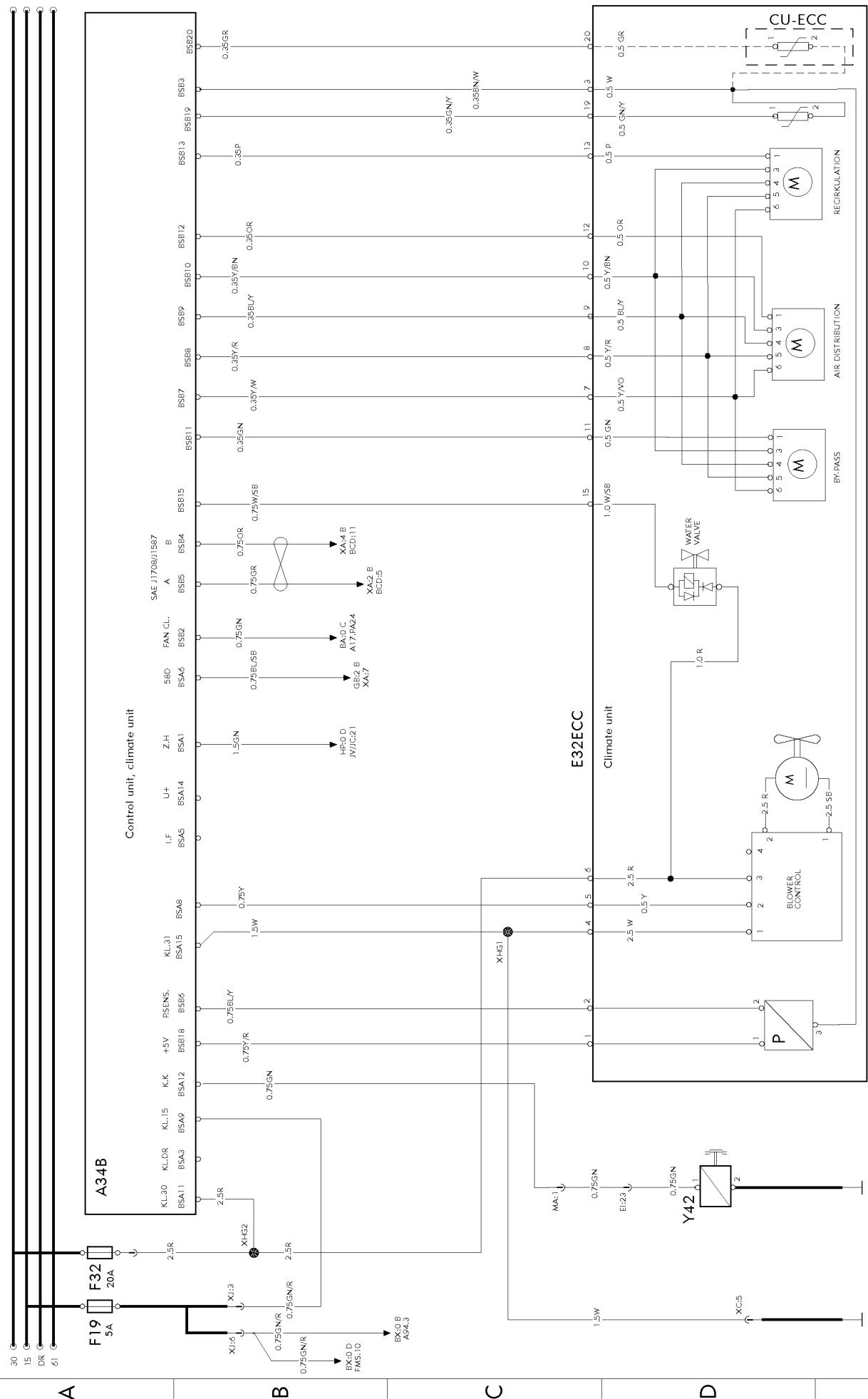
BUMP-HDC

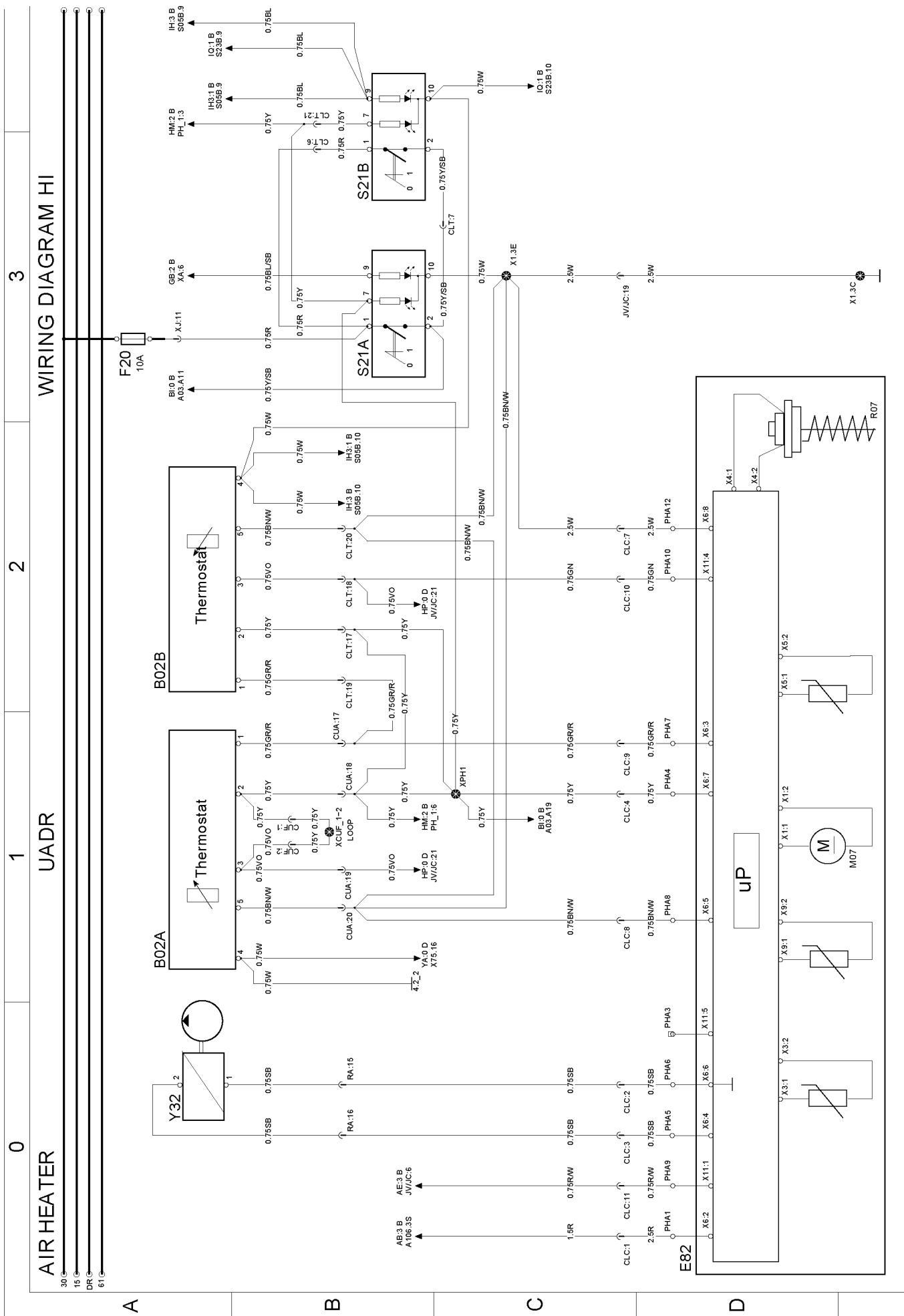
WIRING DIAGRAM GU_2

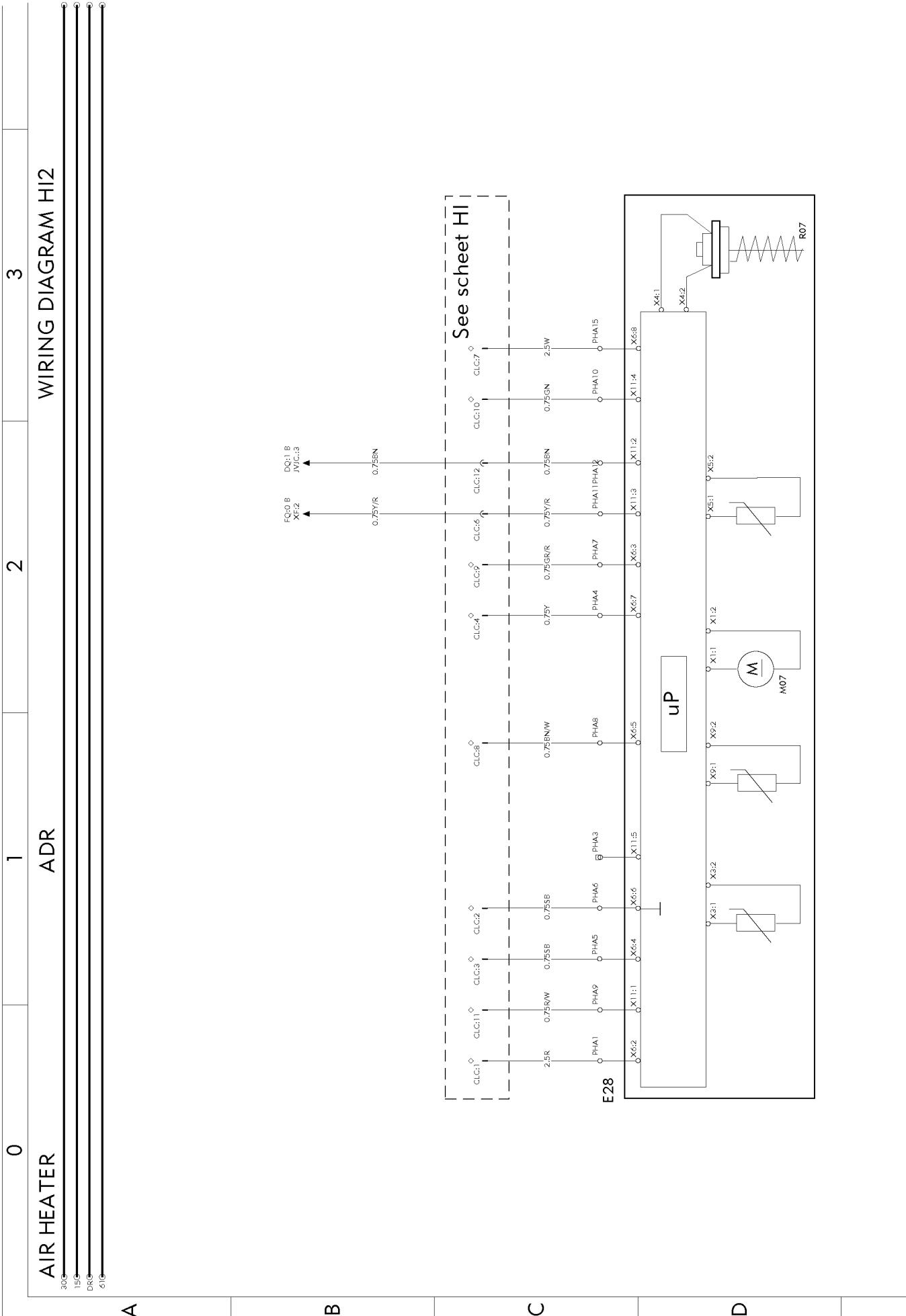


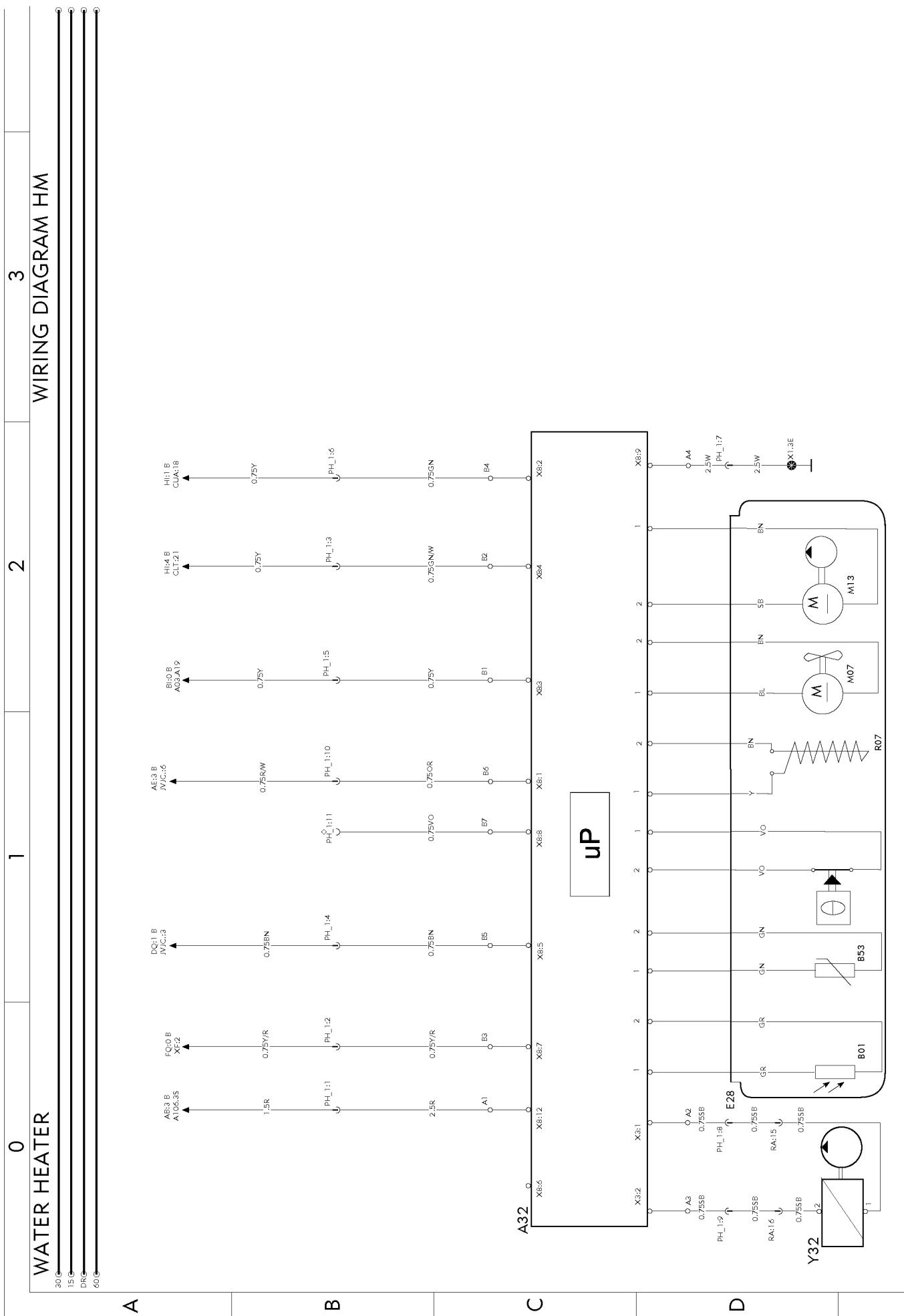
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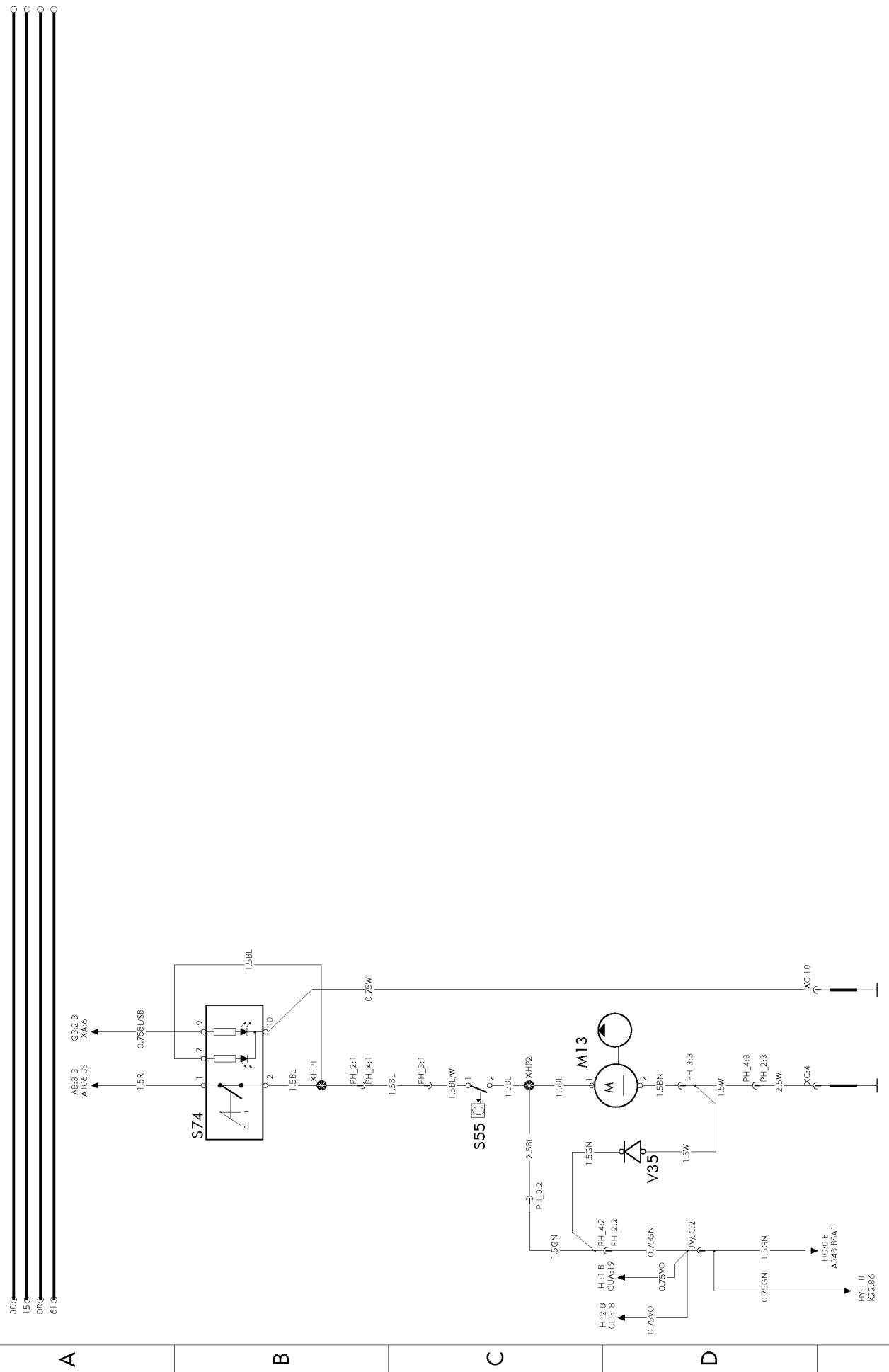


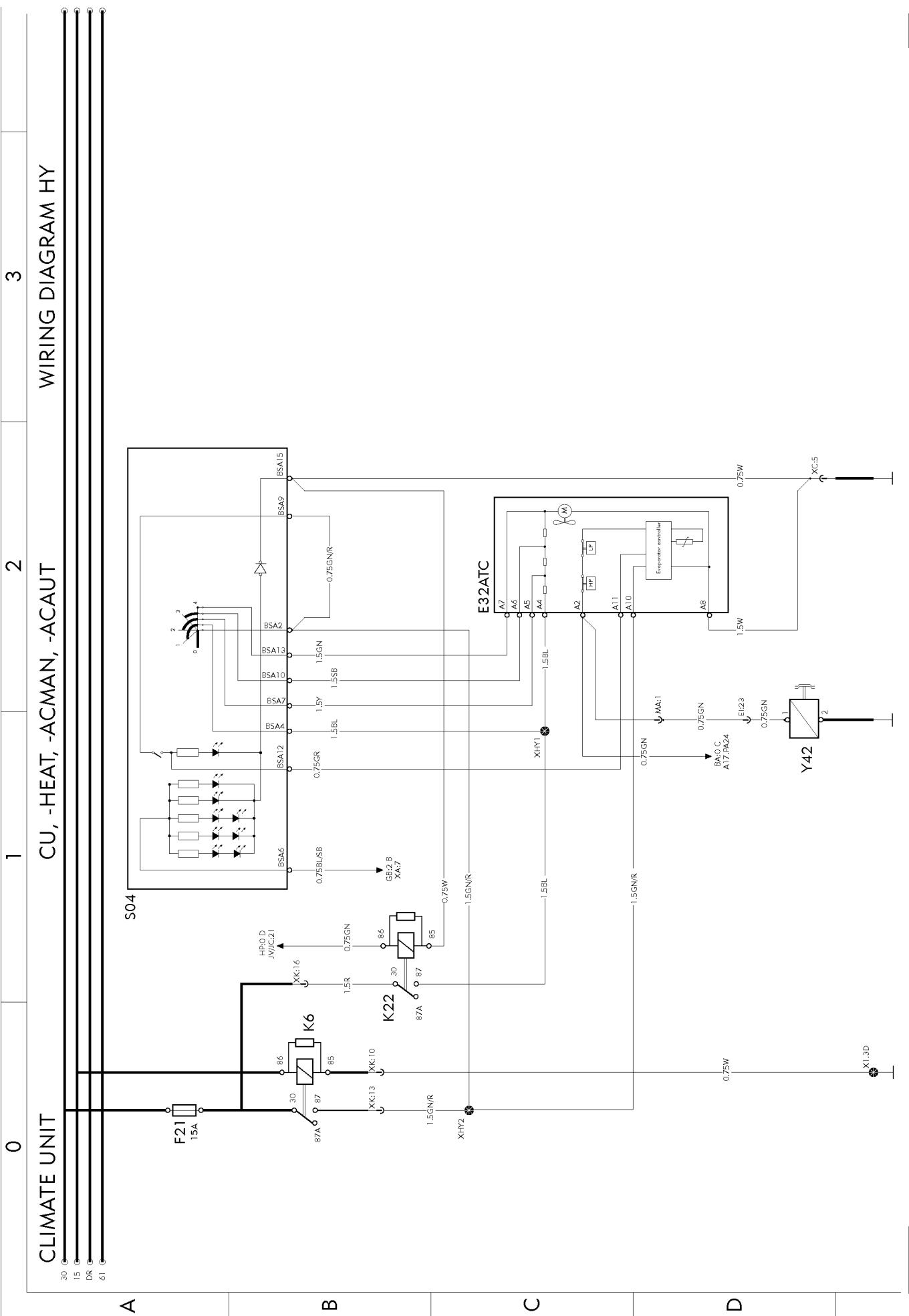


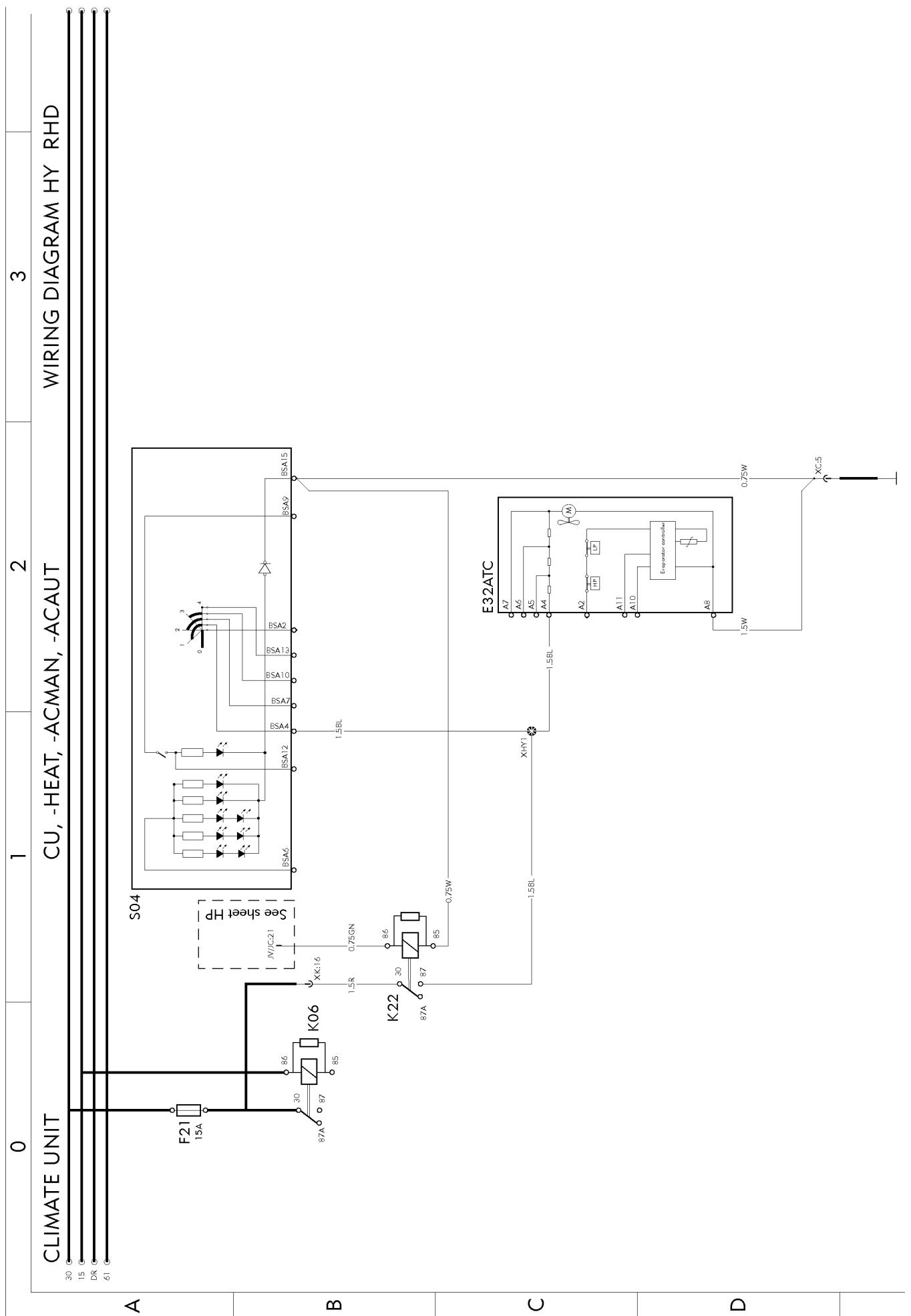
SHORT STOP CAB HEATER

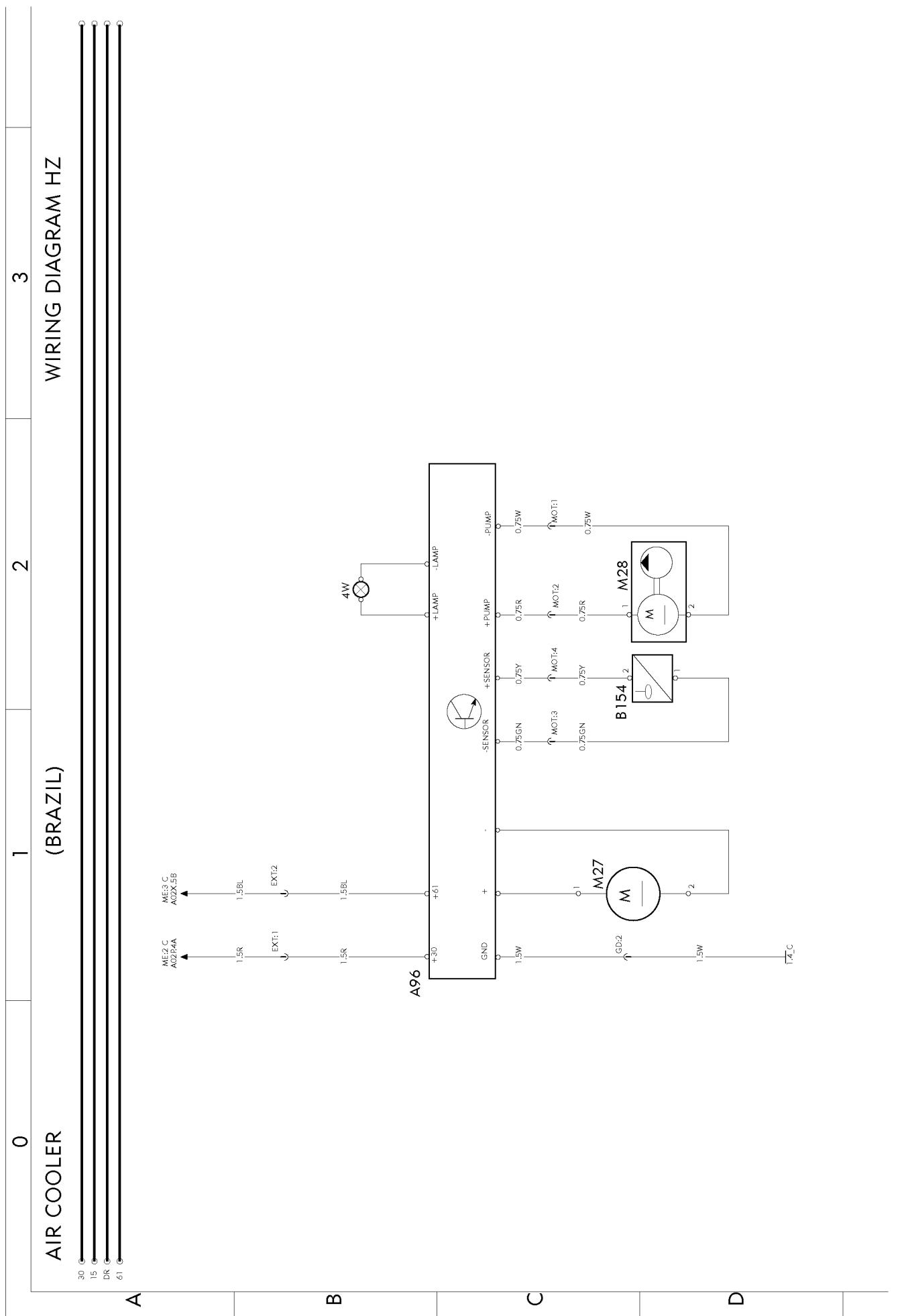
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WIRING DIAGRAM HP

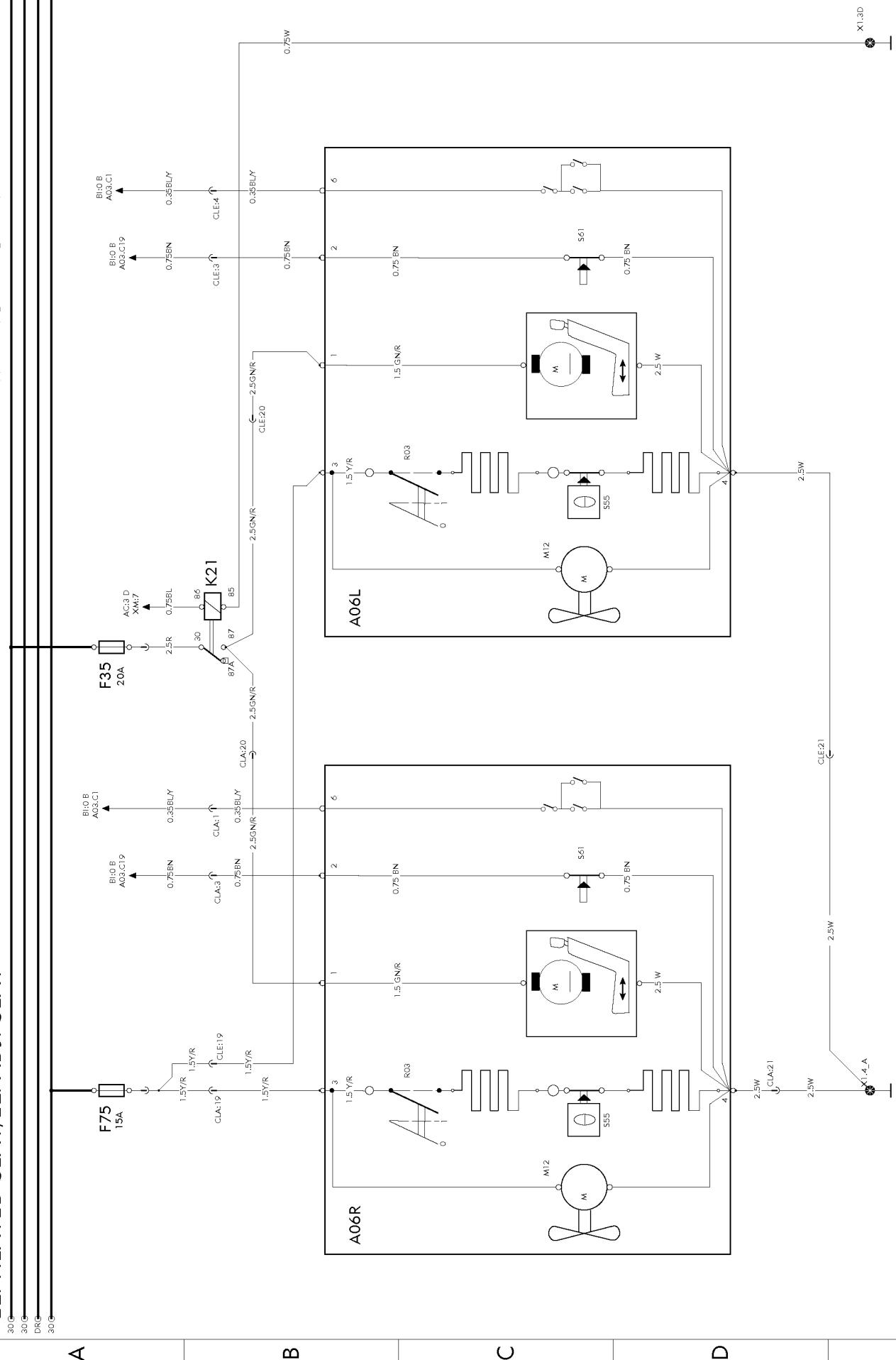


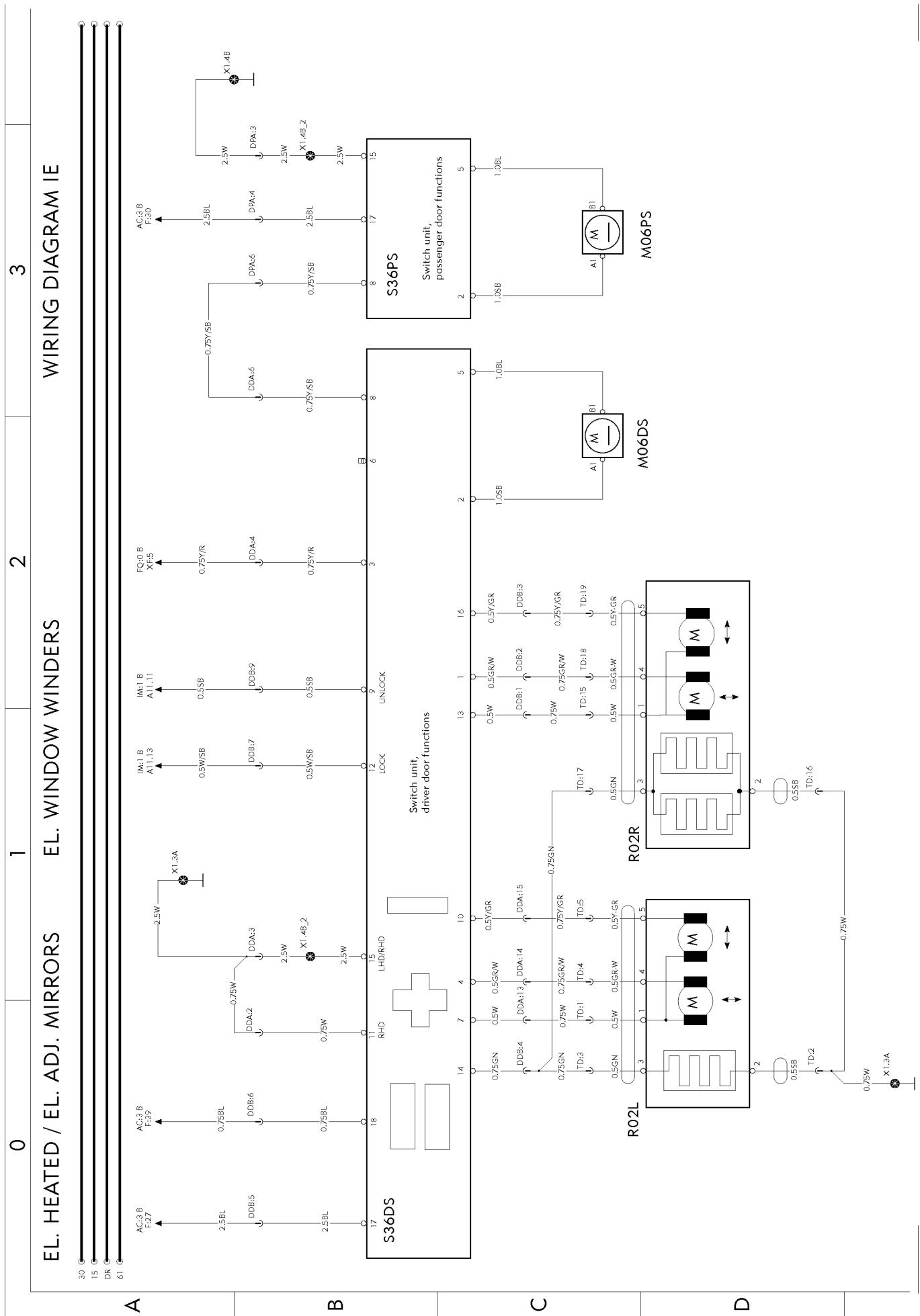






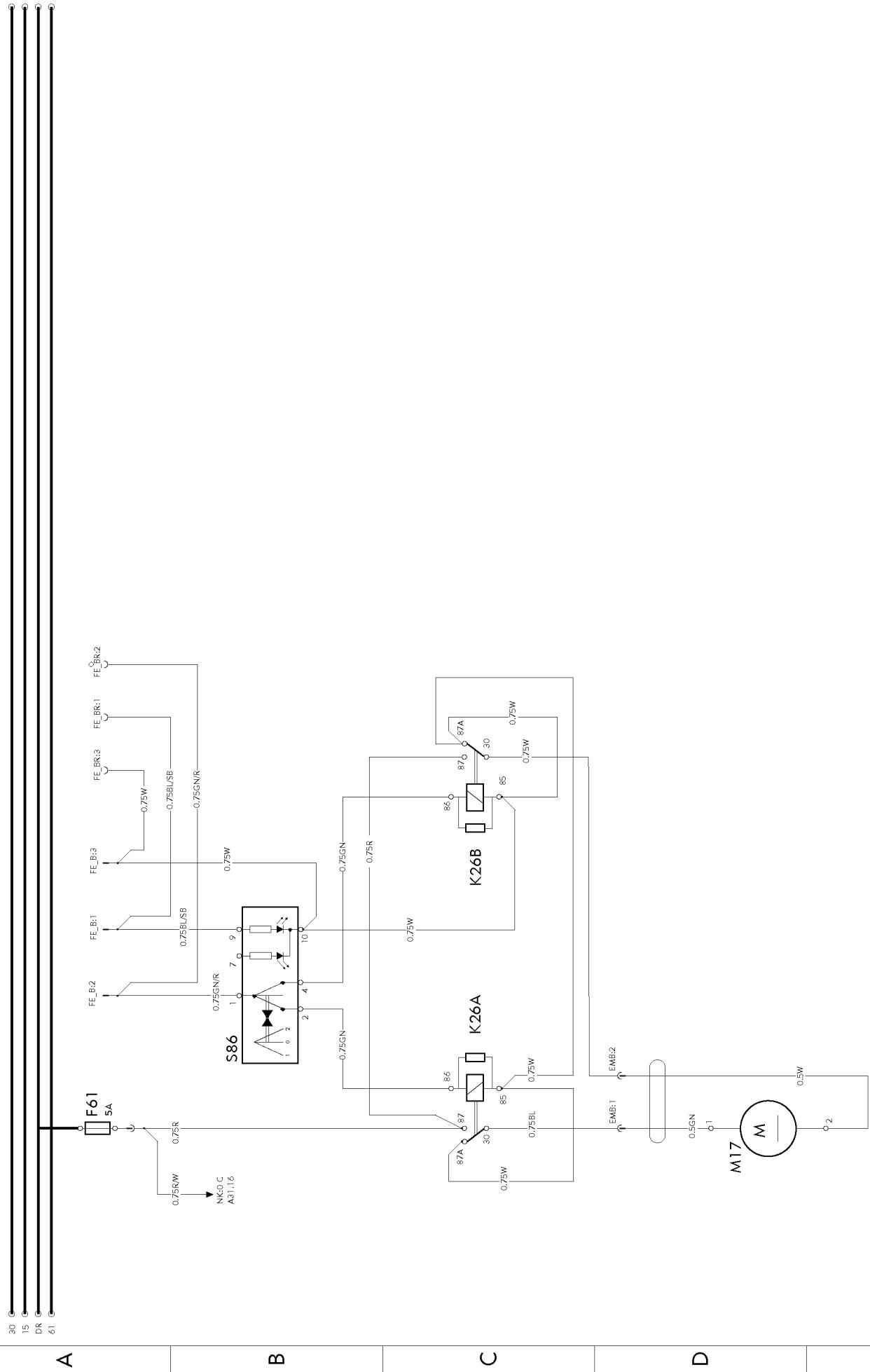
EL. HEATED SEAT/EL. ADJ. SEAT





FOLDABLE MIRROR BRACKET, JAPAN

WIRING DIAGRAM IF



INTERIOR LIGHT

105

Numbers according to cabs concept.

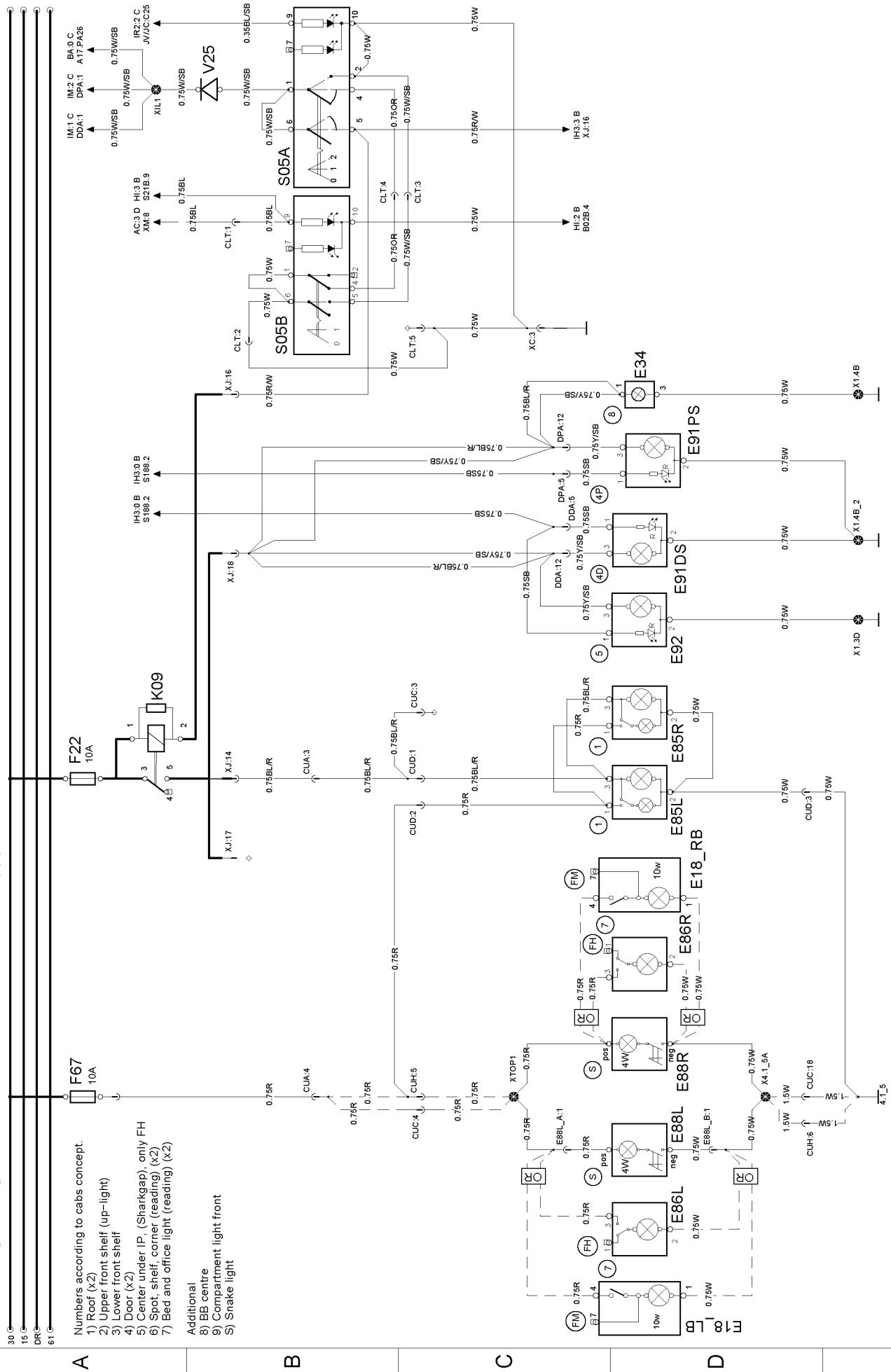
- 1) Roof (x2)
- 2) Upper front shelf (up-light)
- 3) Lower front shelf
- 4) Door (x2)
- 5) Center under IP. (Sharkgap), only
- 6) Spot, shelf, corner (reading) (x2)
- 7) Bed and office light (reading) (x2)

Additional
 8) BB centre
 9) Compartment light front
 S) Snake light

工

A

WIRING DIAGRAM IH



INTERIOR LIGHT

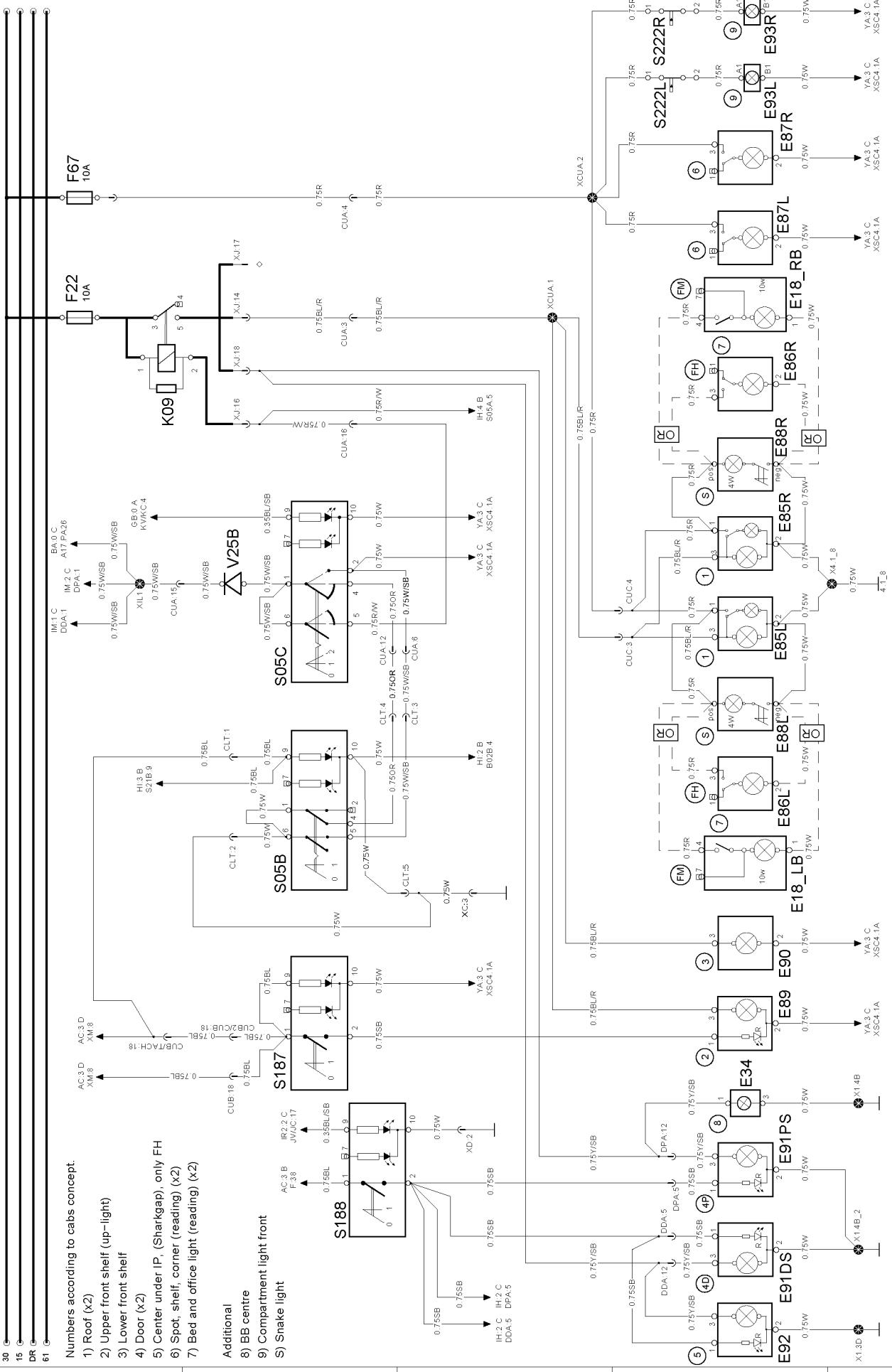
INTERIOR LIGHT

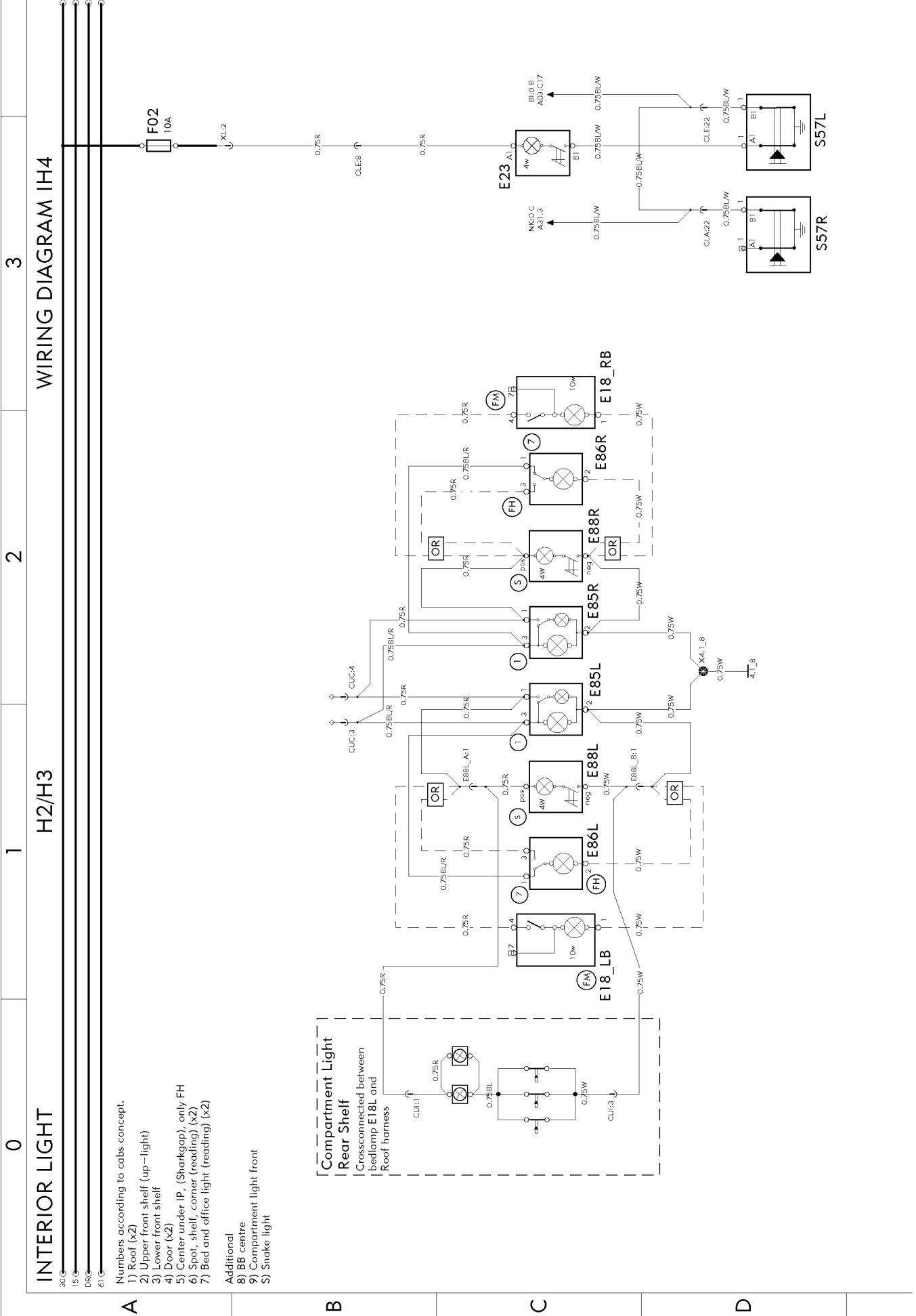
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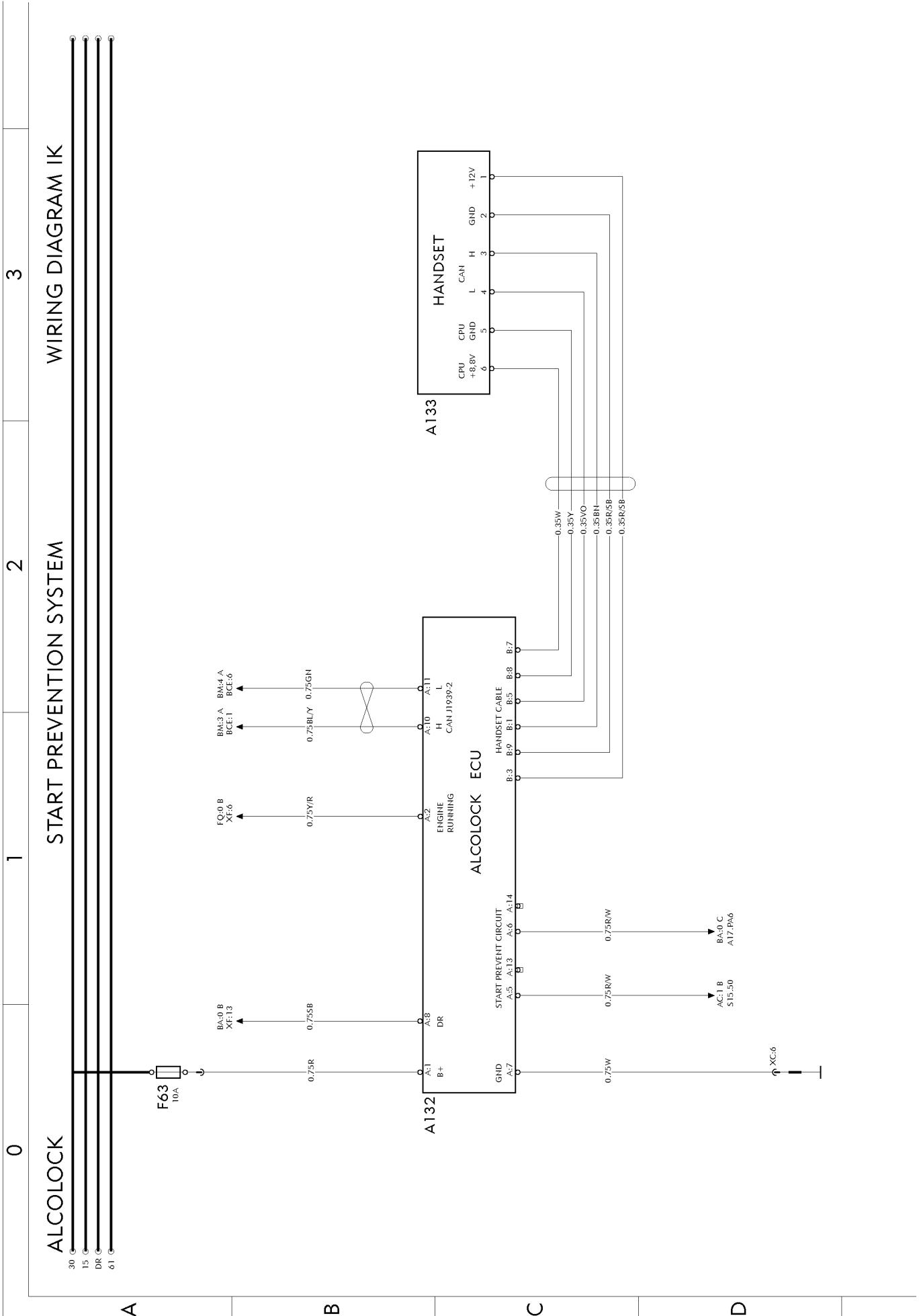
[NL]-NL/[NL]-BAS

3

WIRING DIAGRAM IH3







CENTRAL LOCKING, IMMOBILISER

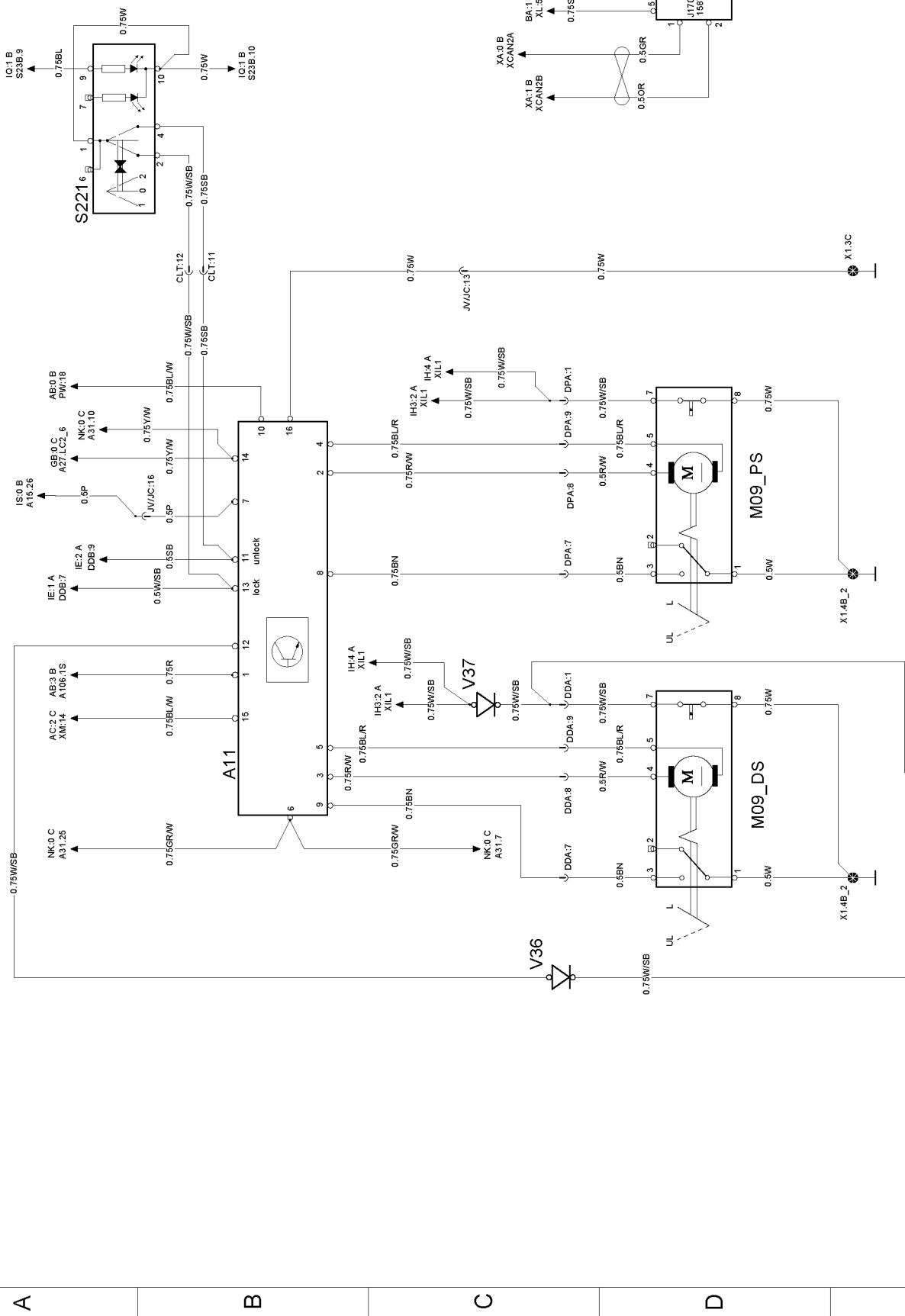
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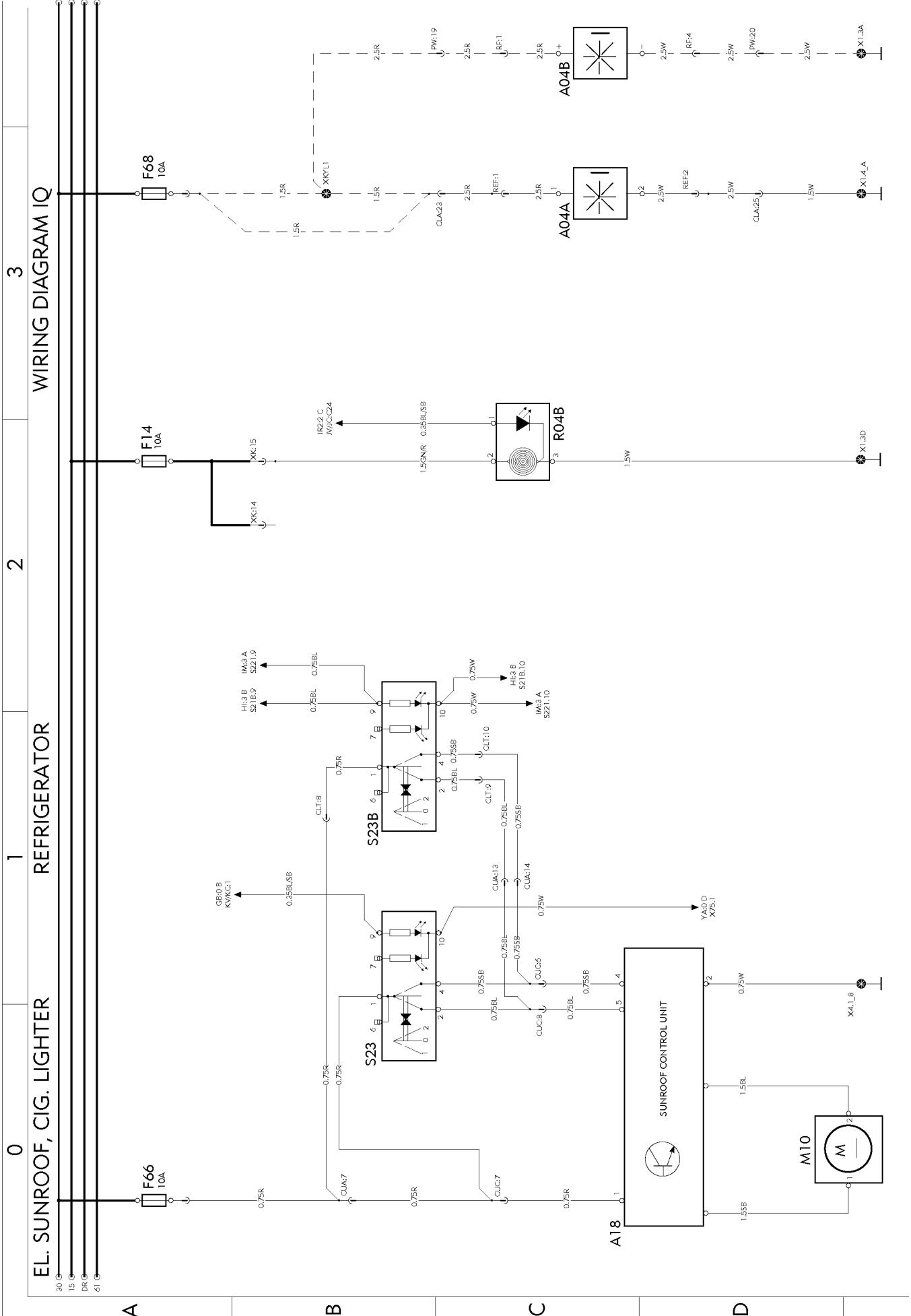
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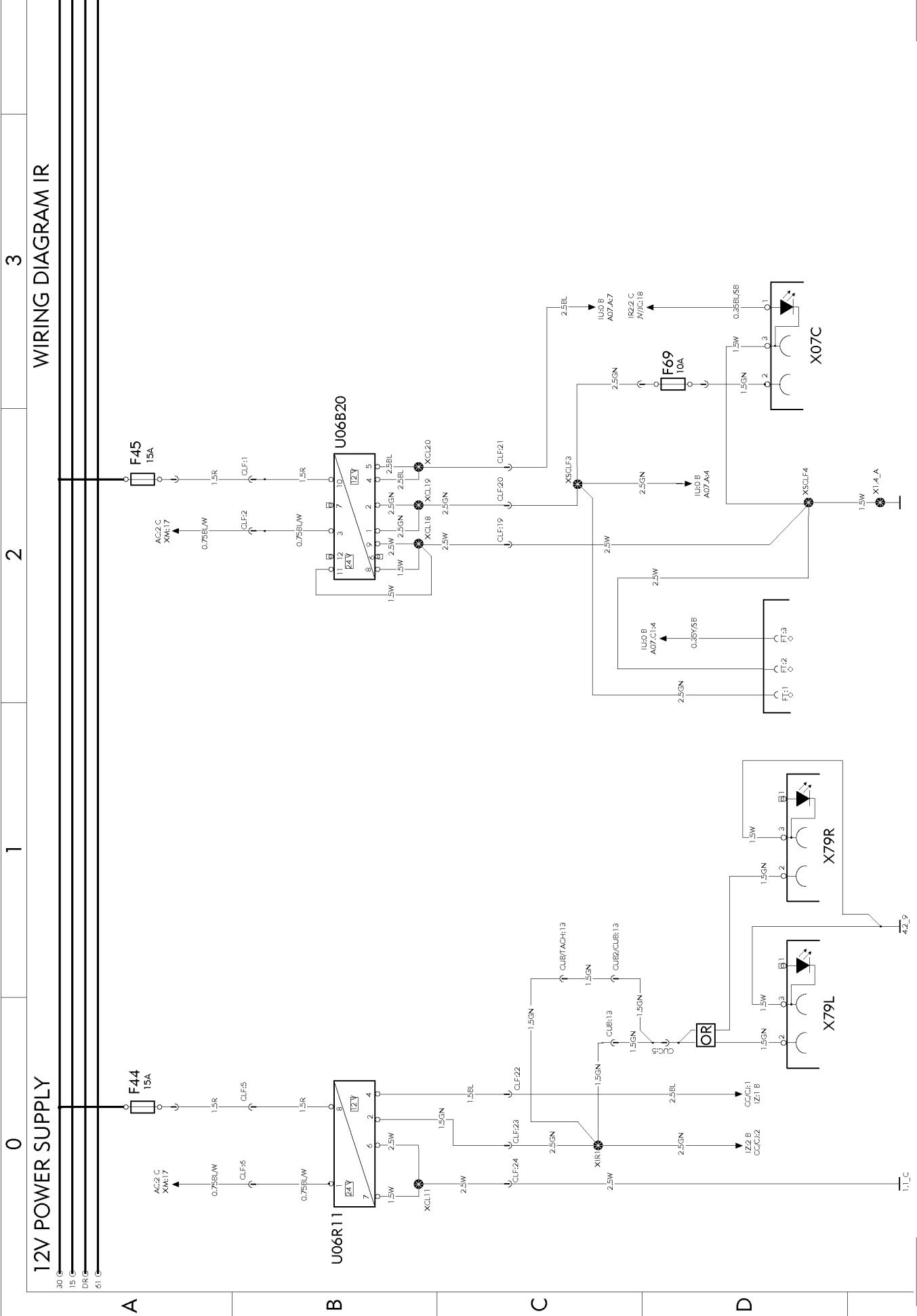
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3

WIRING DIAGRAM IM





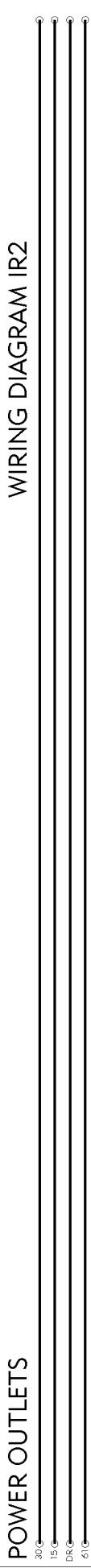


POWER OUTLETS

2

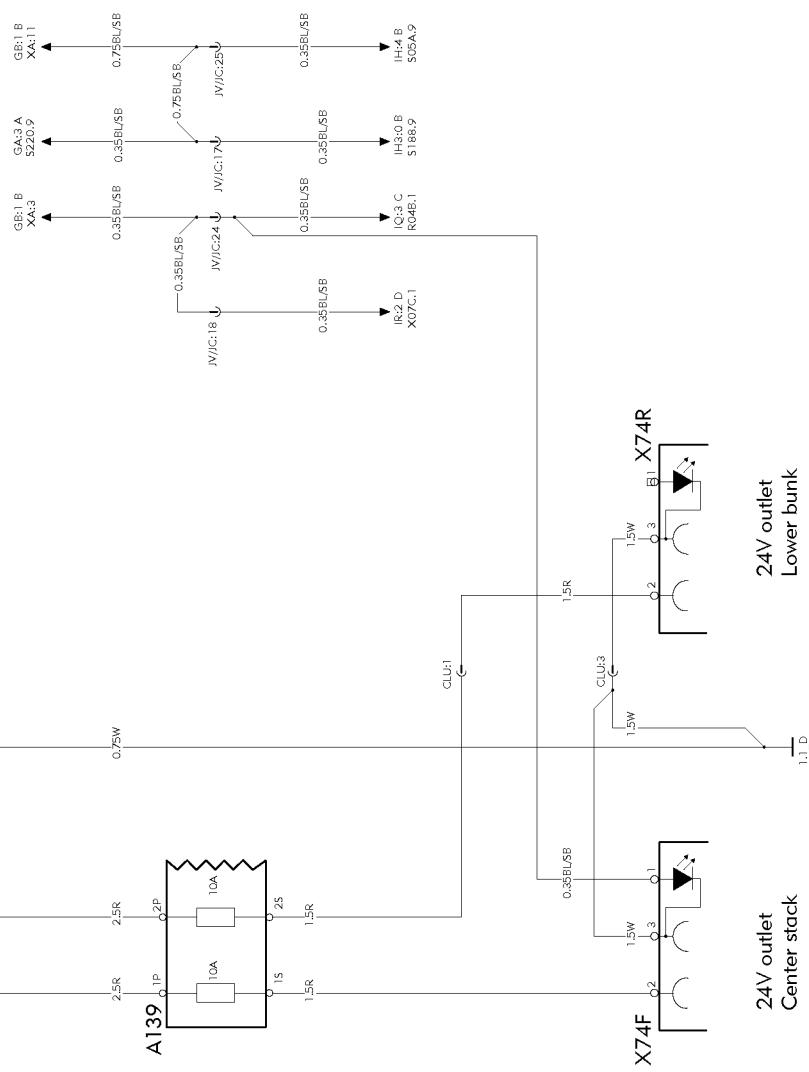
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3



WIRING DIAGRAM IR2

3

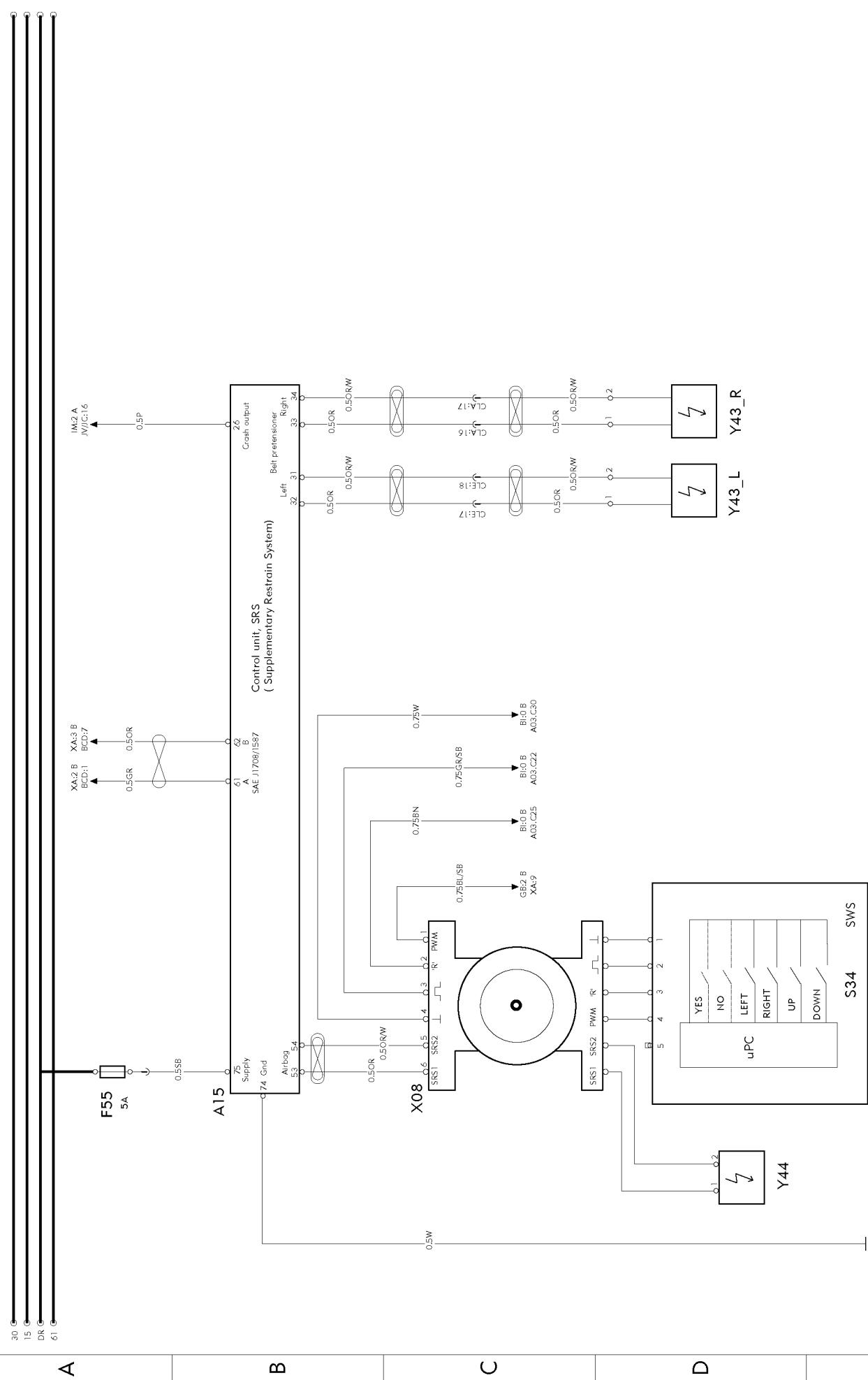


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SRS AIRBAG

3

WIRING DIAGRAM IS



0

2

3

AUDIO



A

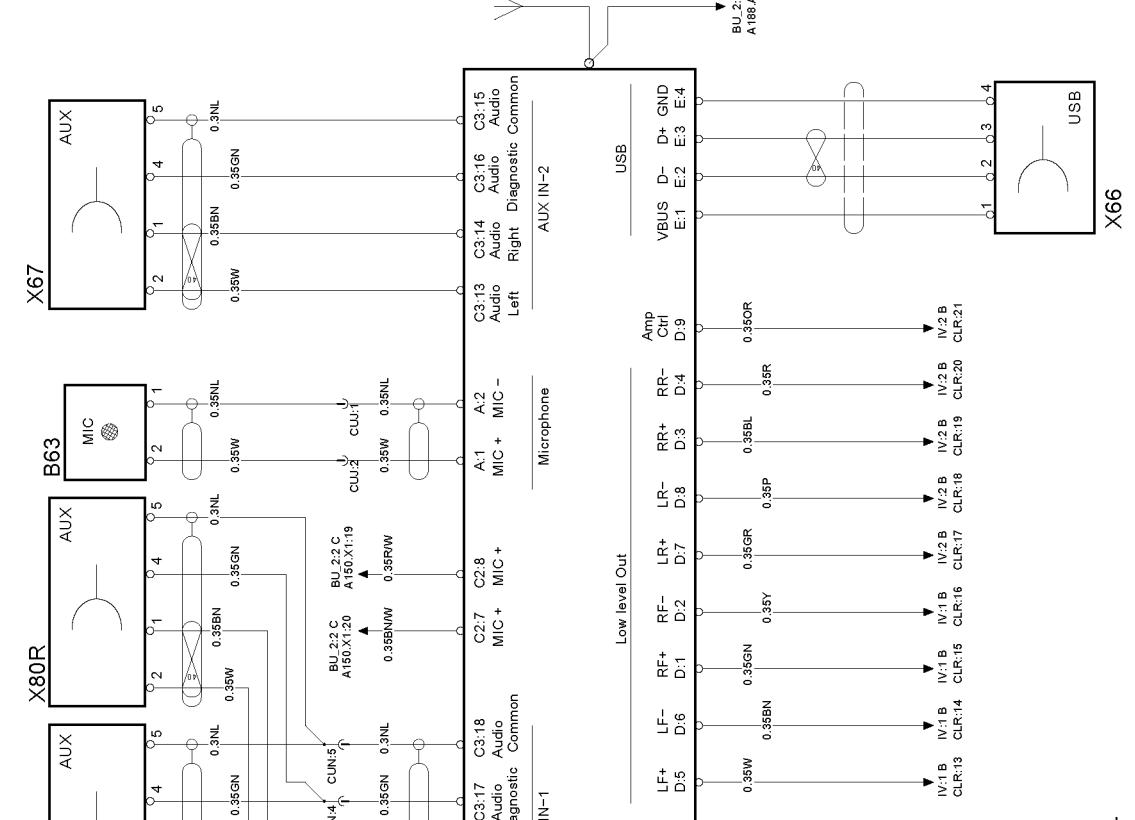
B

C

WIRING DIAGRAM IU

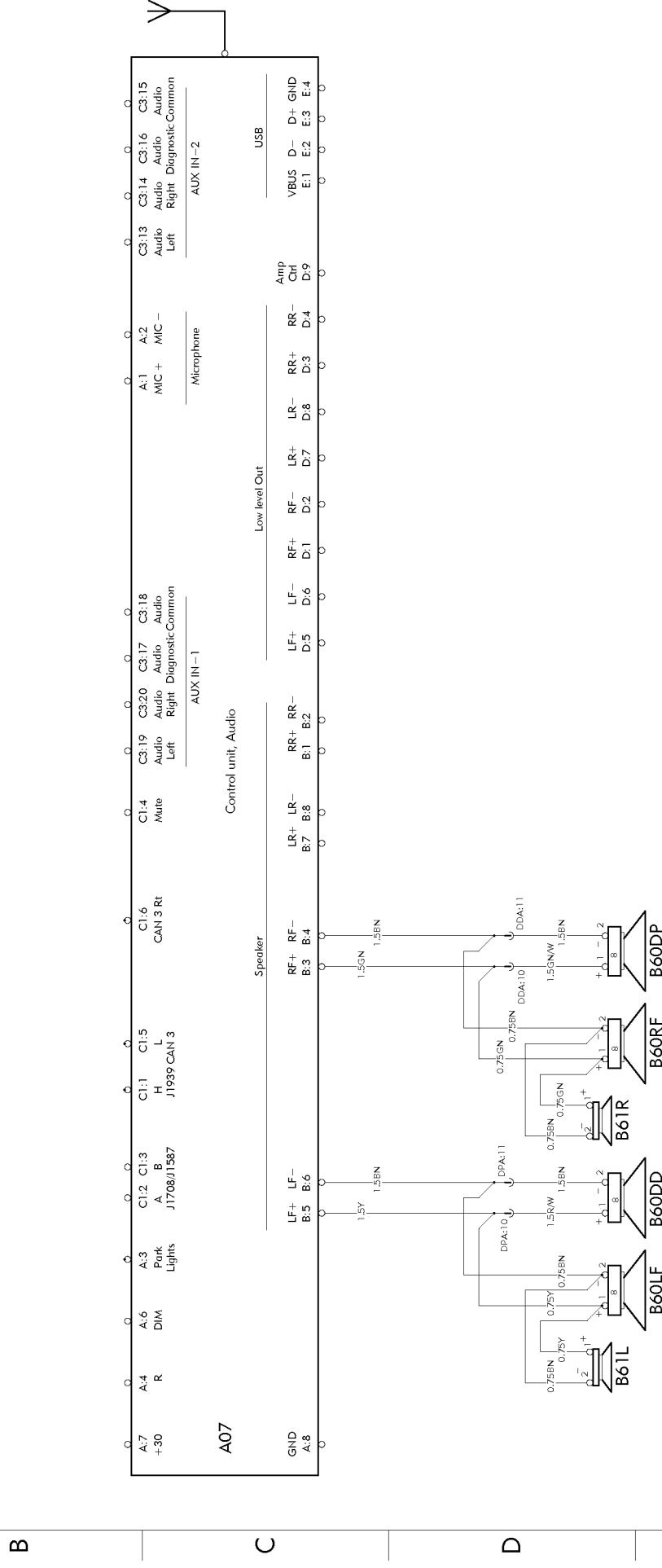
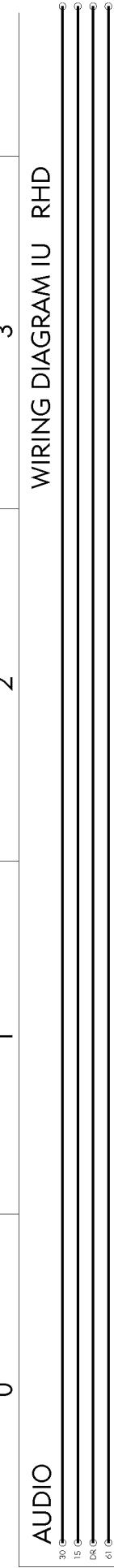
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3

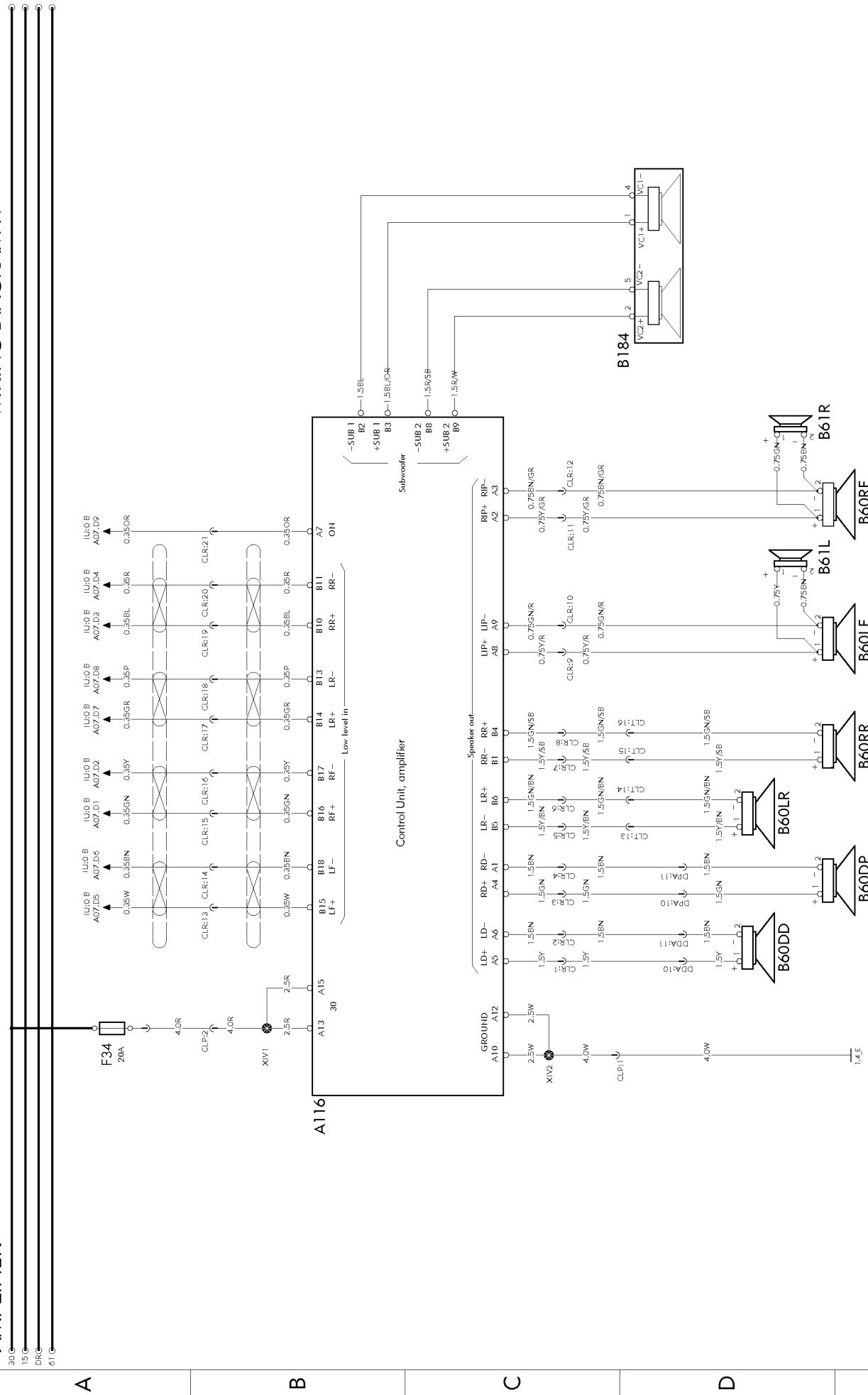


1.1A

T3075464



AMPLIFIER



INTEGRATED TELEPHONE, GSM

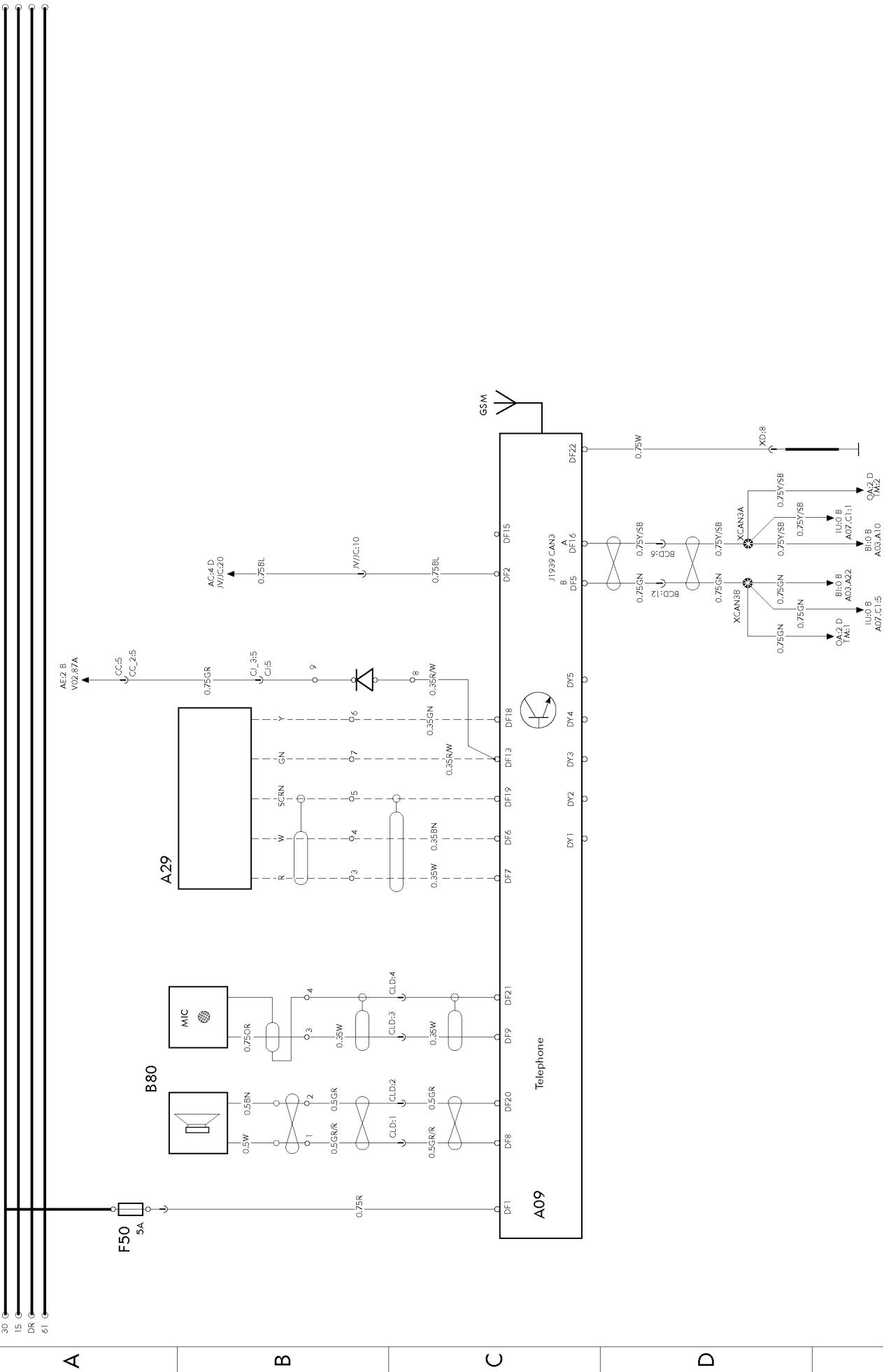
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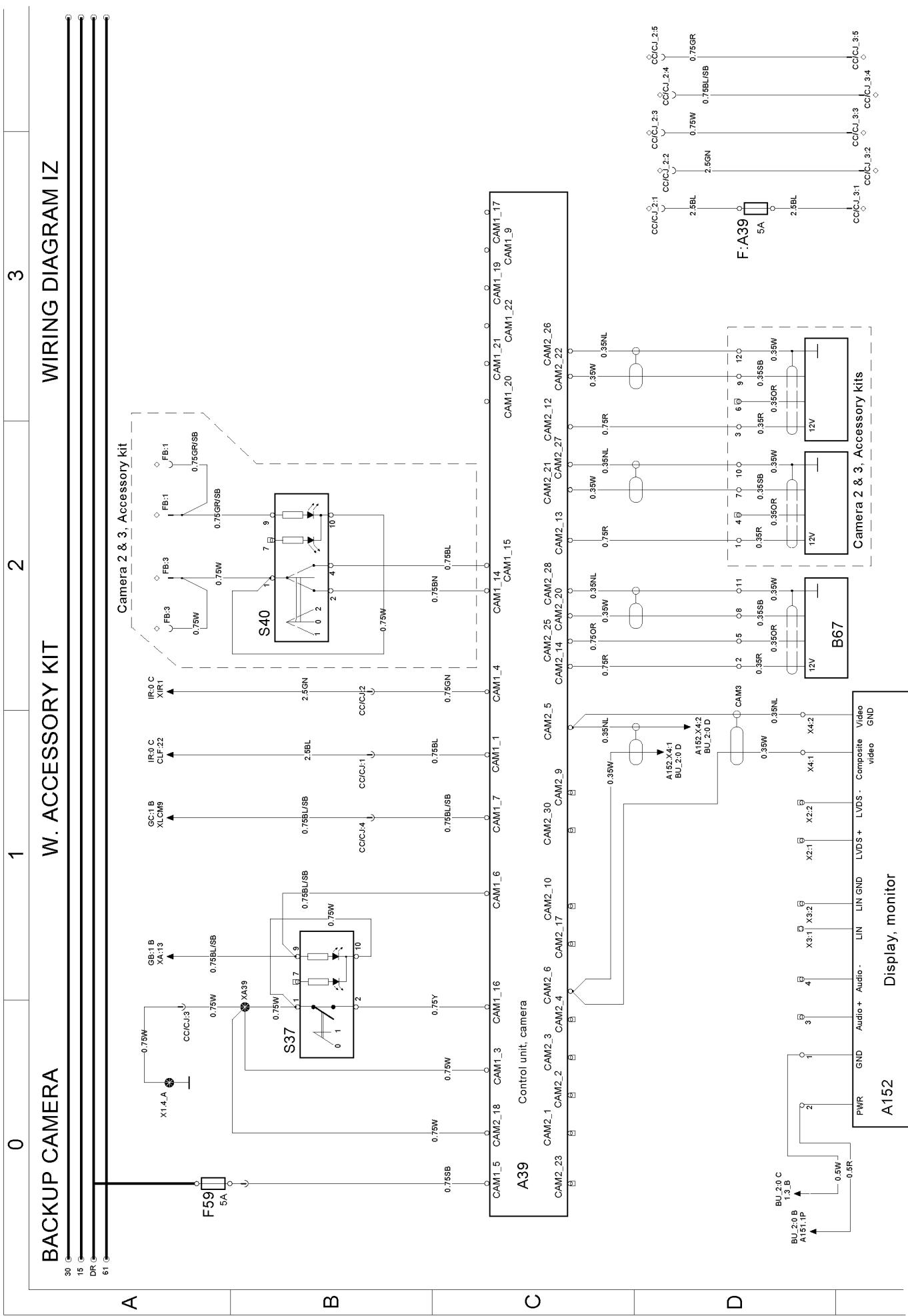
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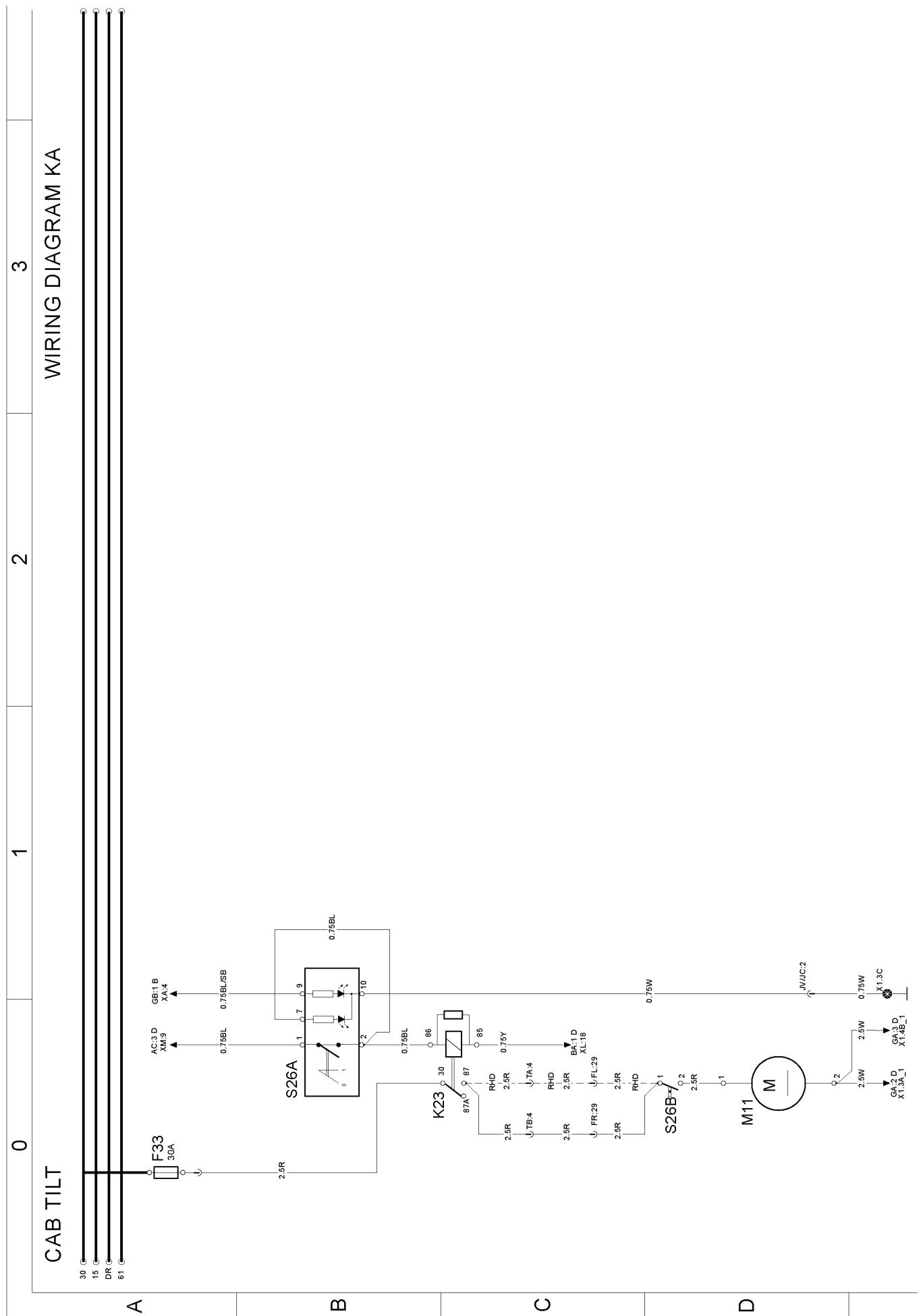
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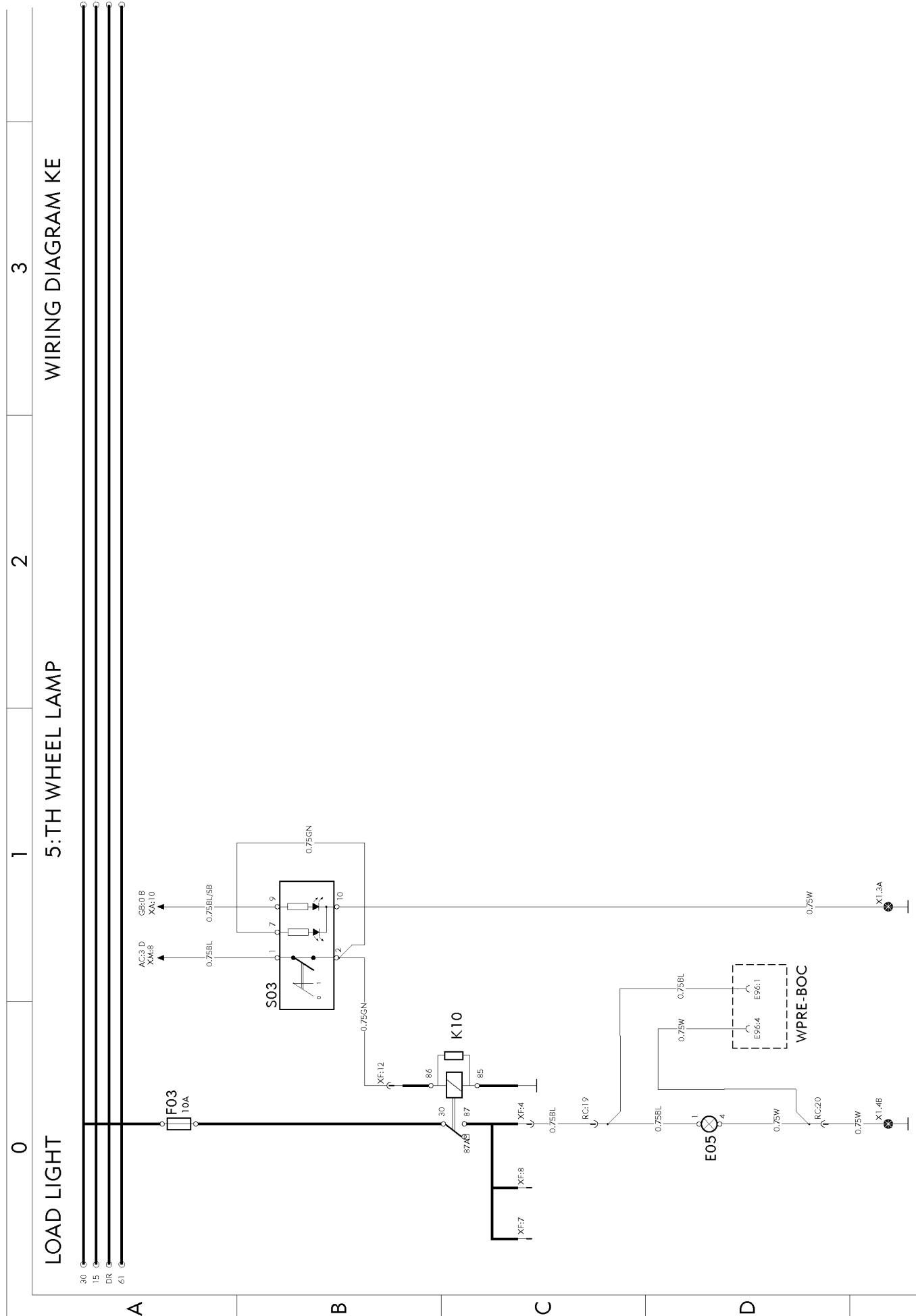
33

WIRING DIAGRAM IX









LIGHT SIGN

30
15
DR
61

0 1 2

3

WIRING DIAGRAM KI

A

3

B

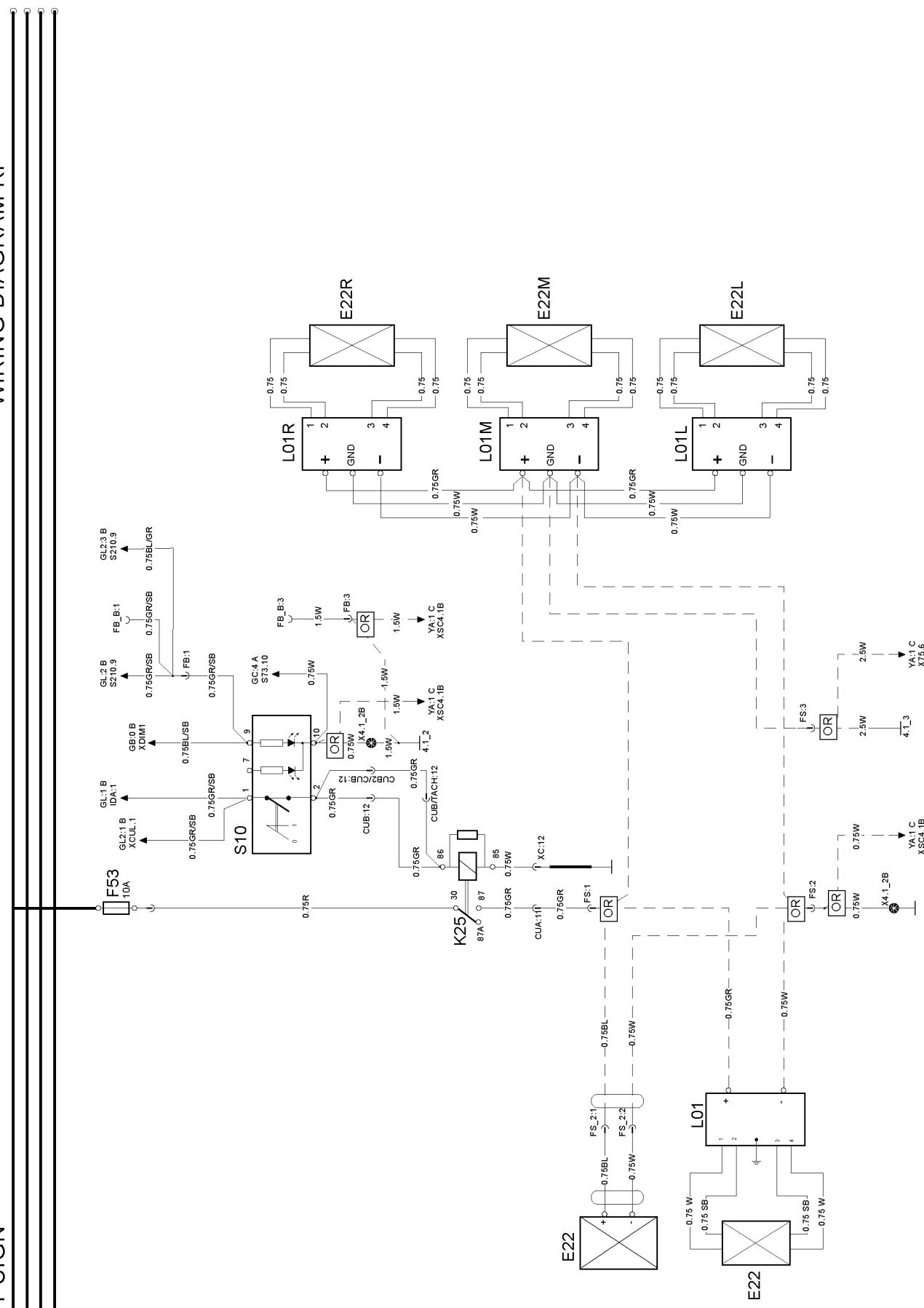
2

C

1

D

0



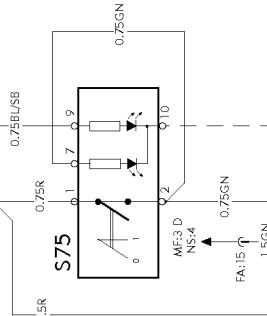
BEACON WARNING LIGHT

0 1 2 3

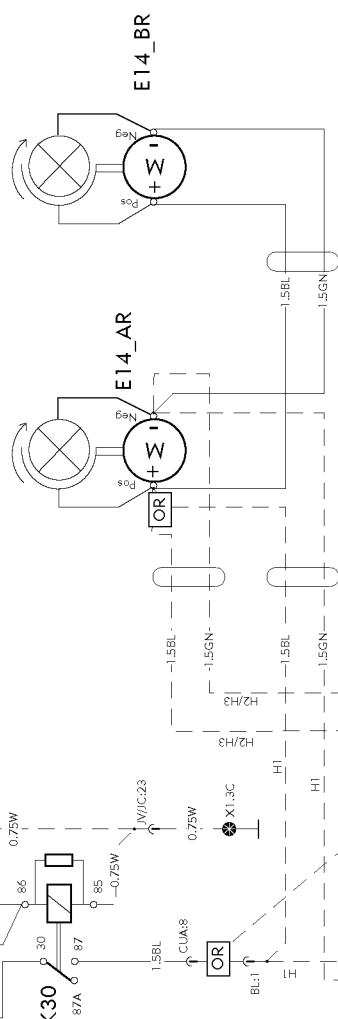
WIRING DIAGRAM KM



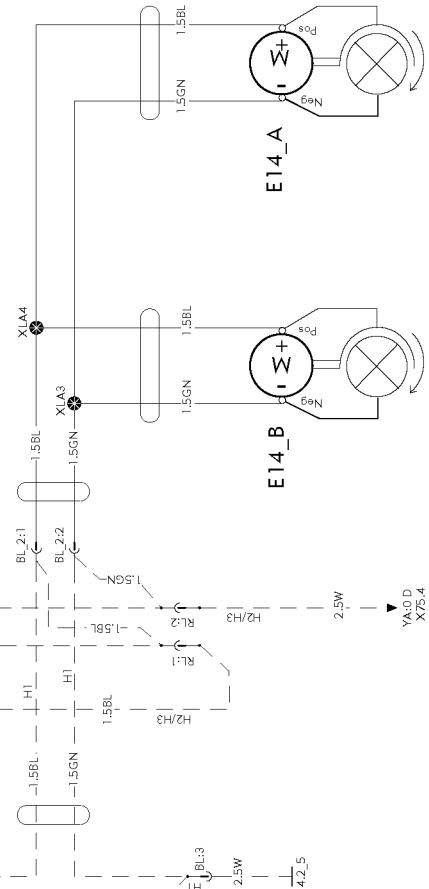
A



B

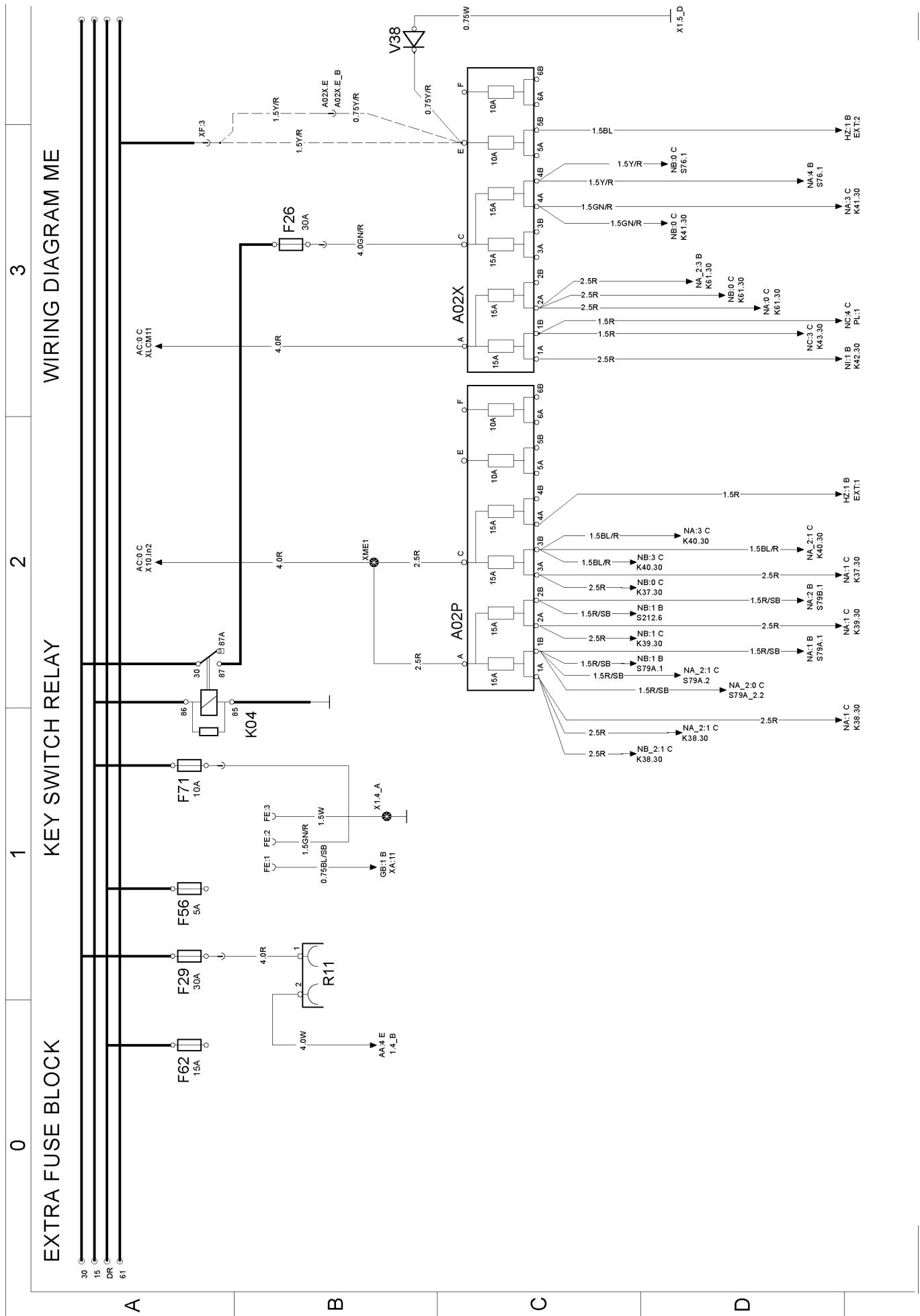


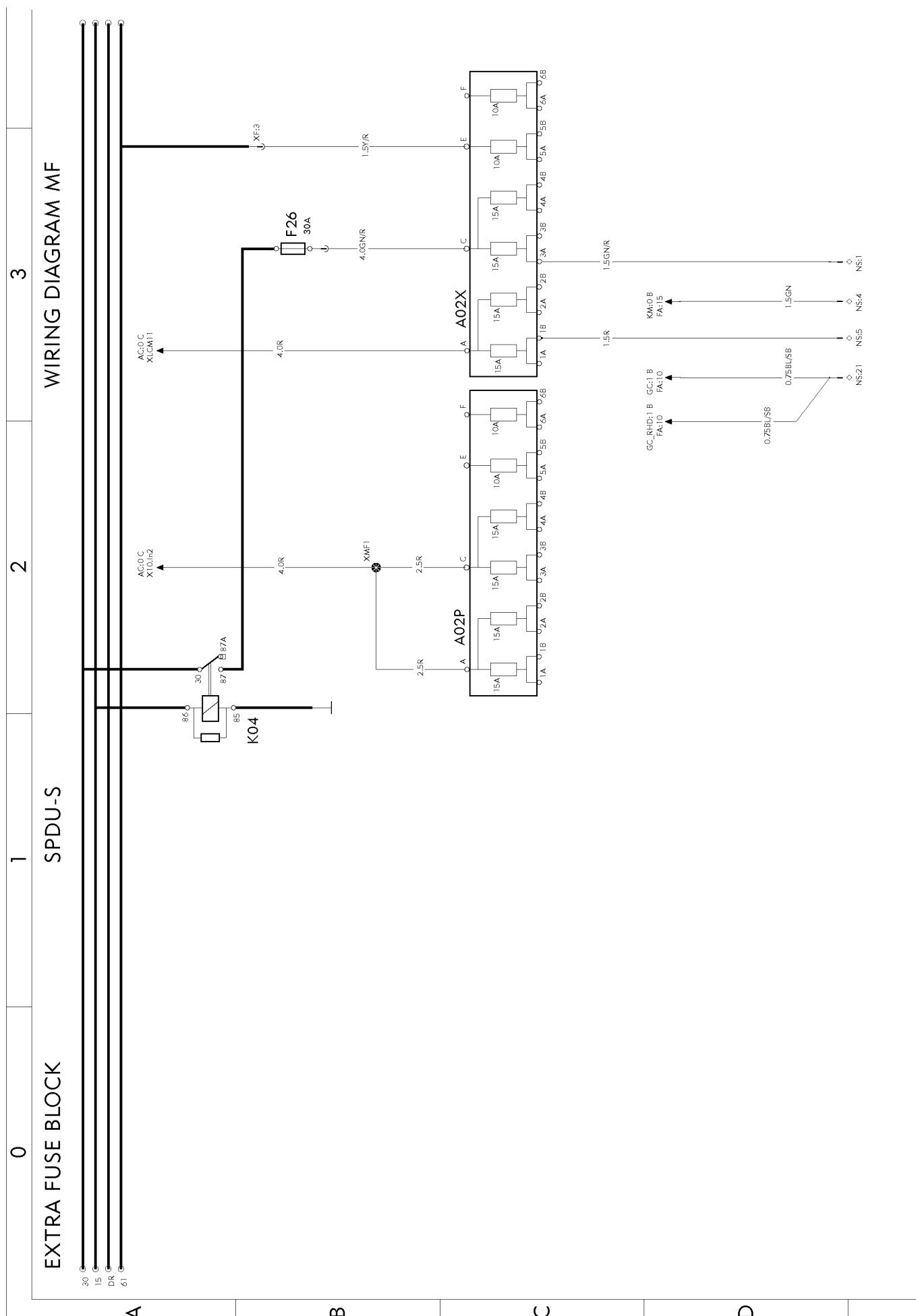
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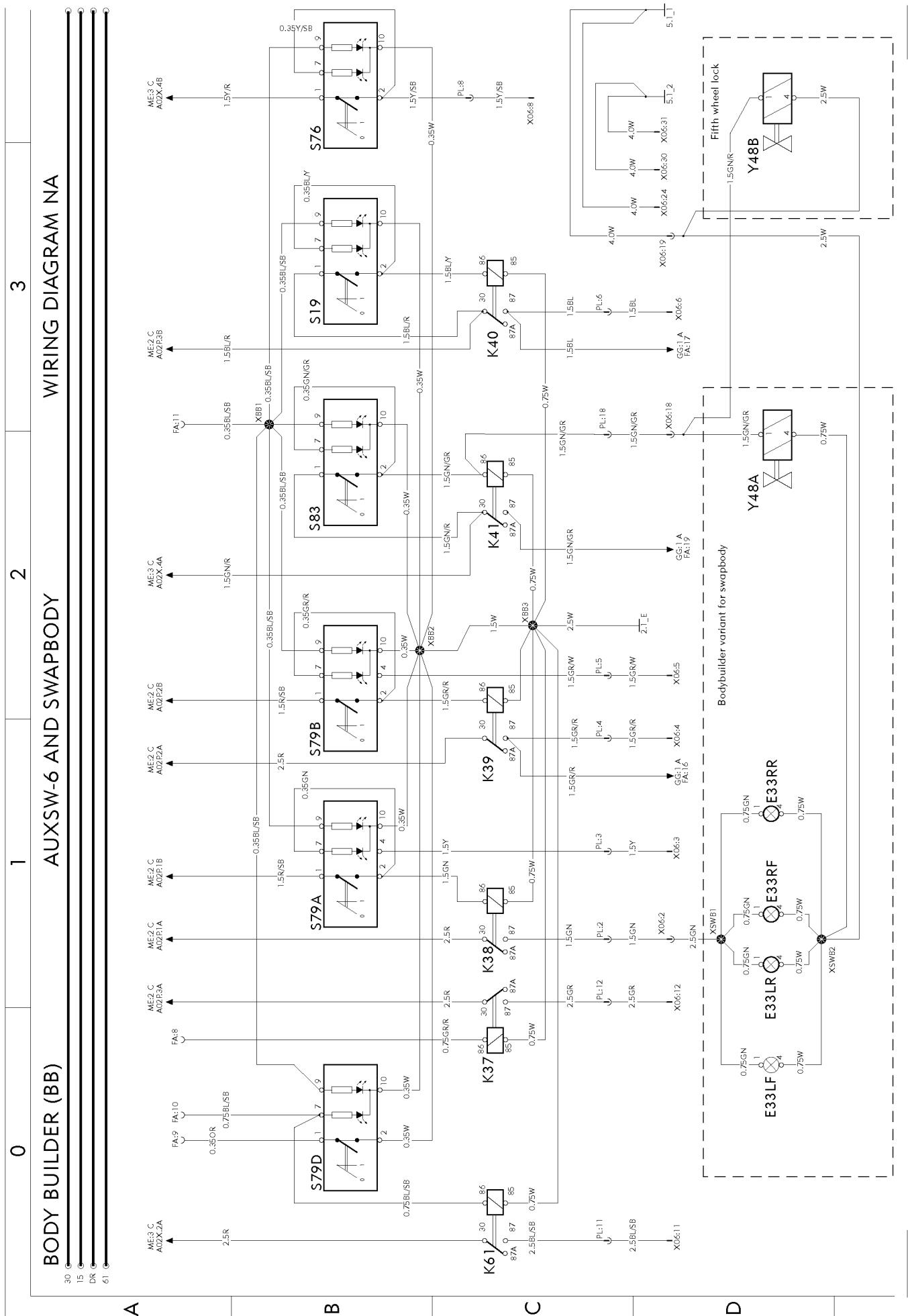


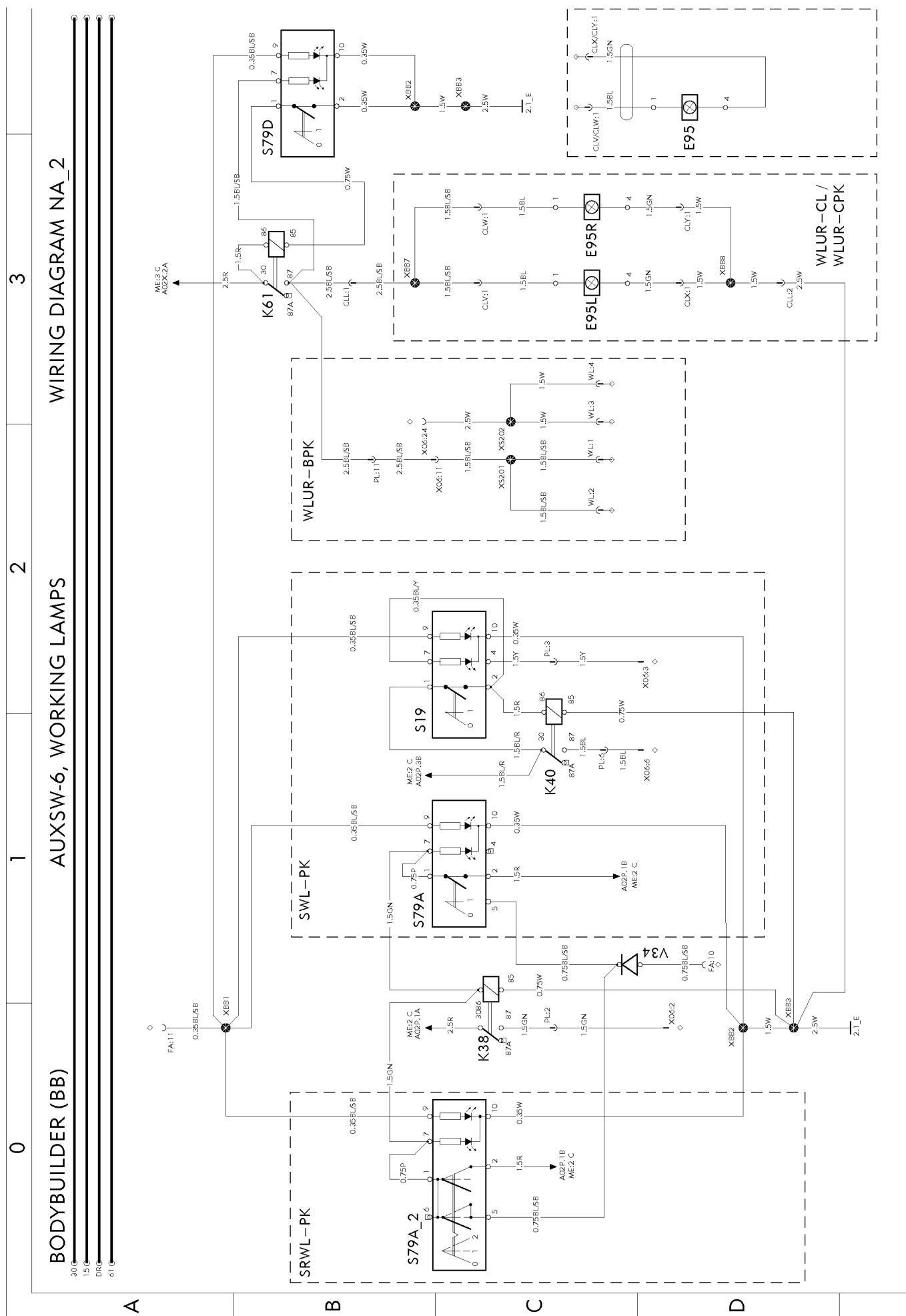
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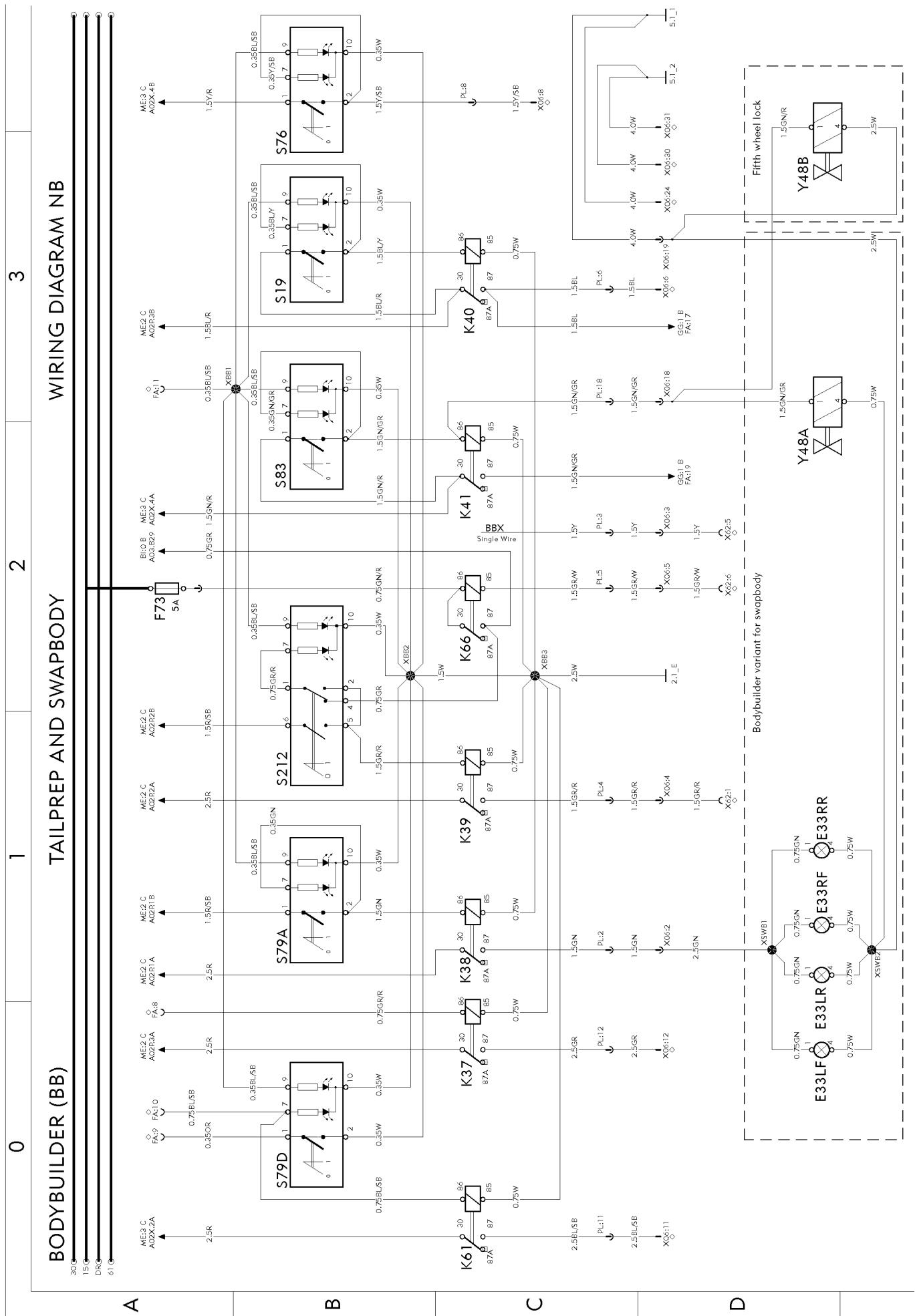
T3021487

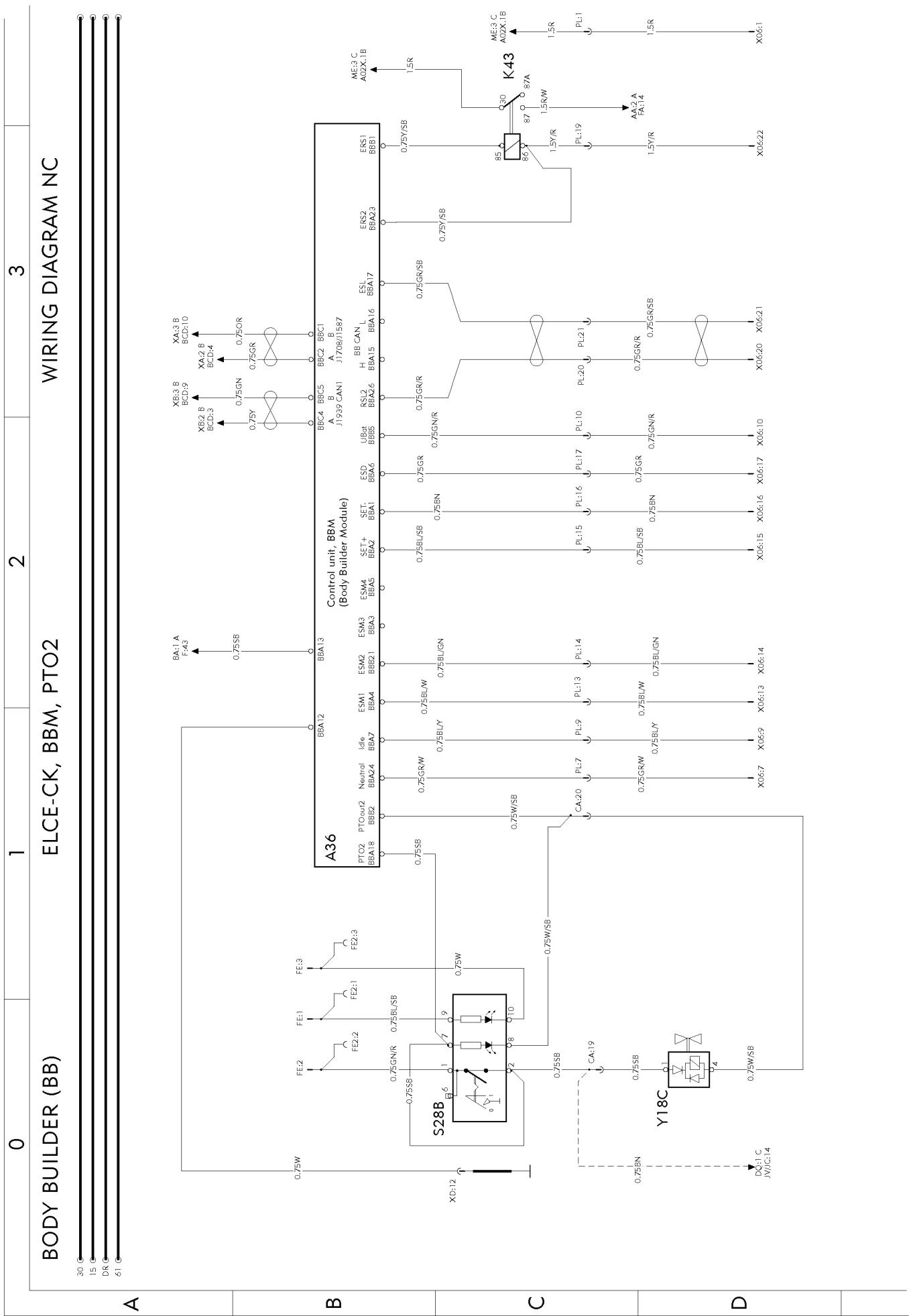


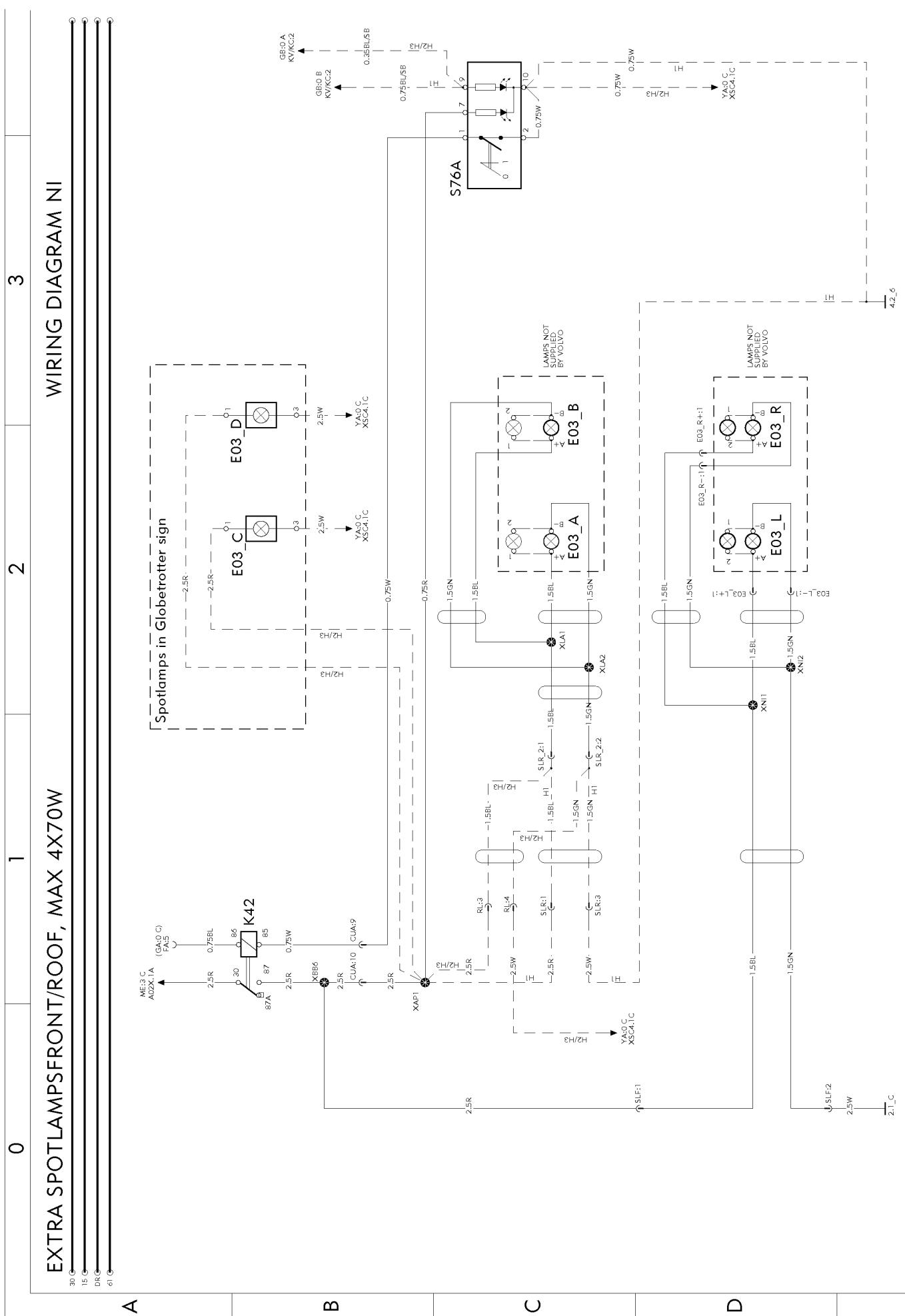










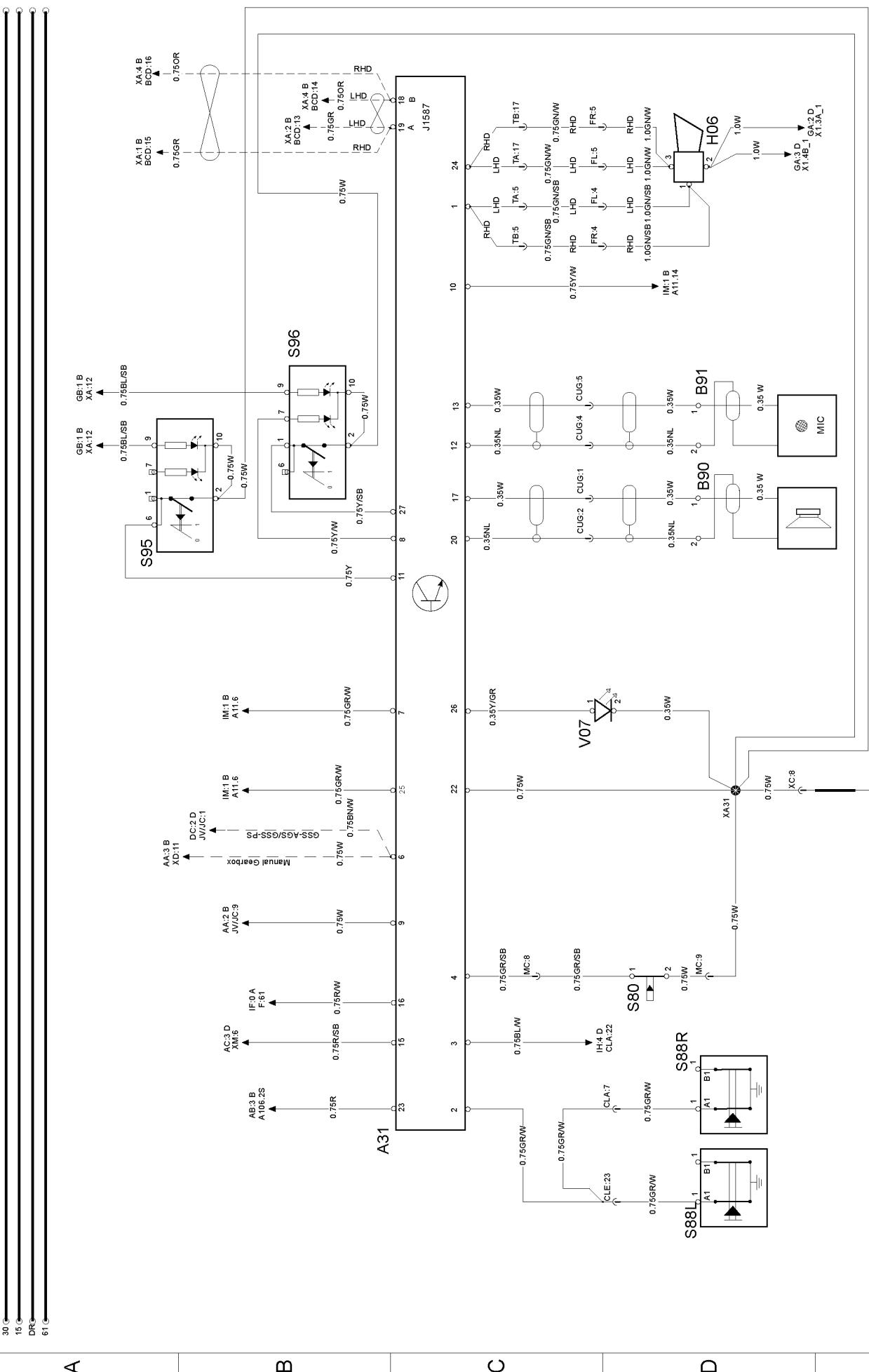


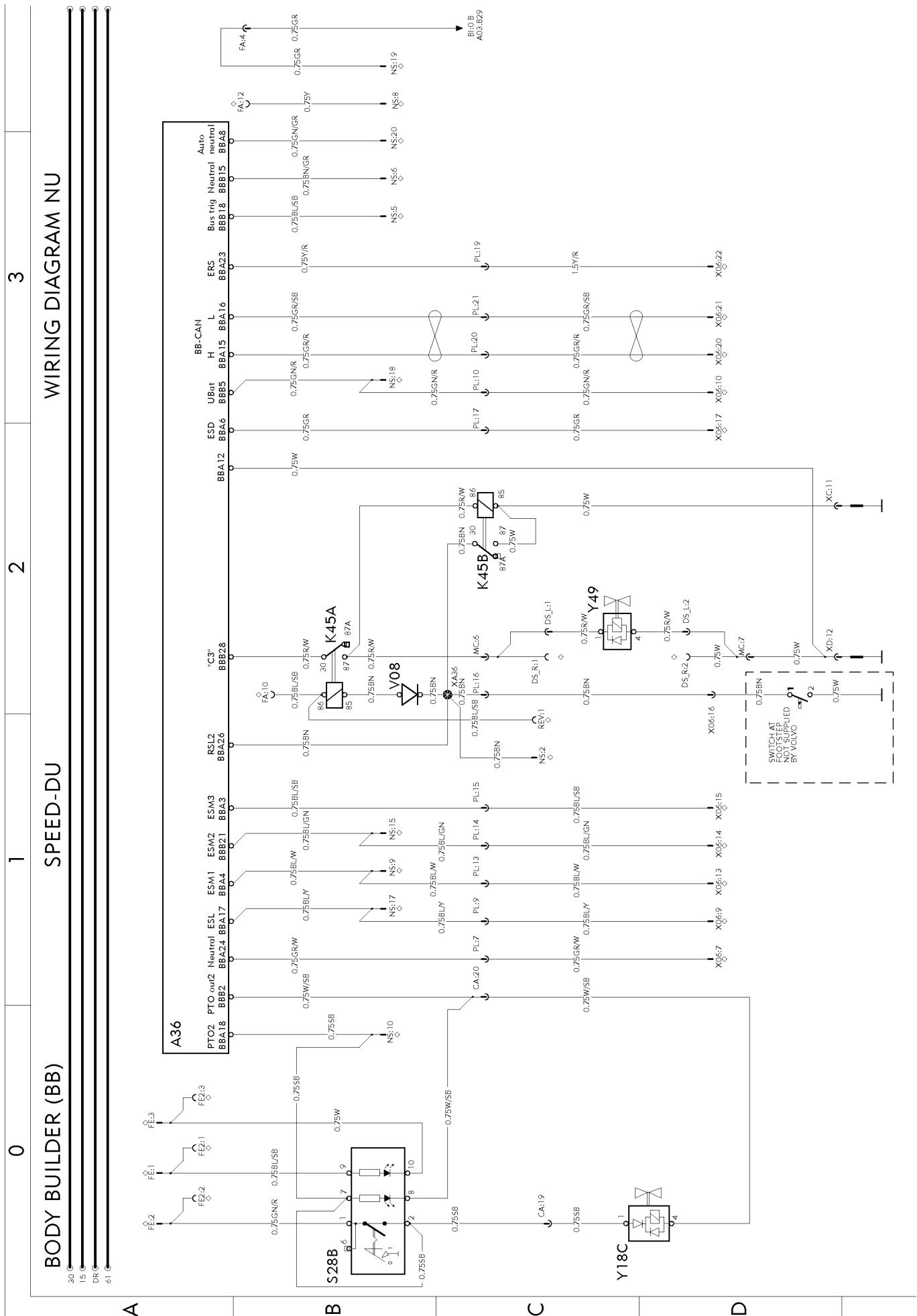
BURGLAR ALARM

Page 114 (298)

WIRING DIAGRAM NK

2





BODY BUILDER (BB)

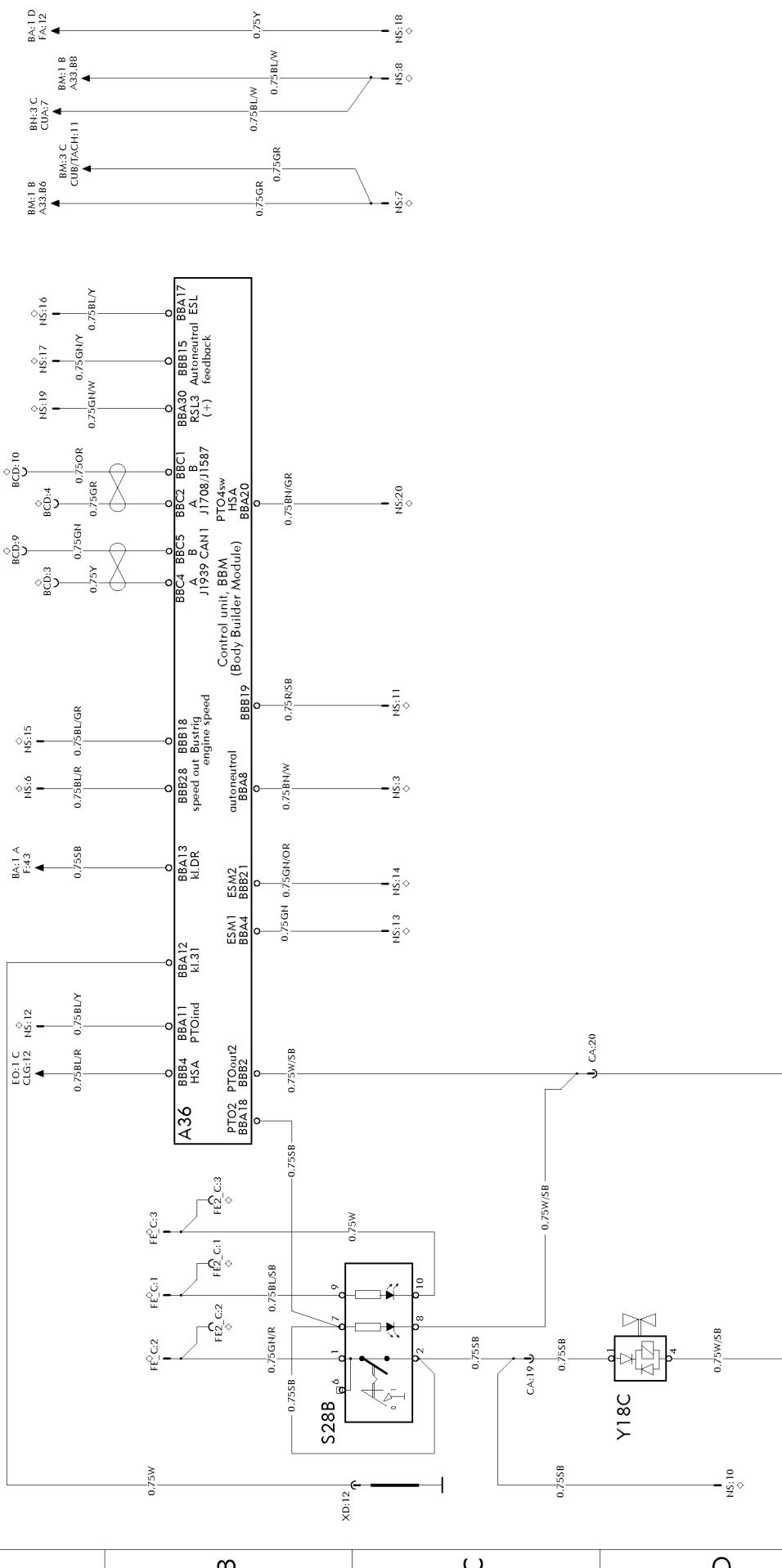
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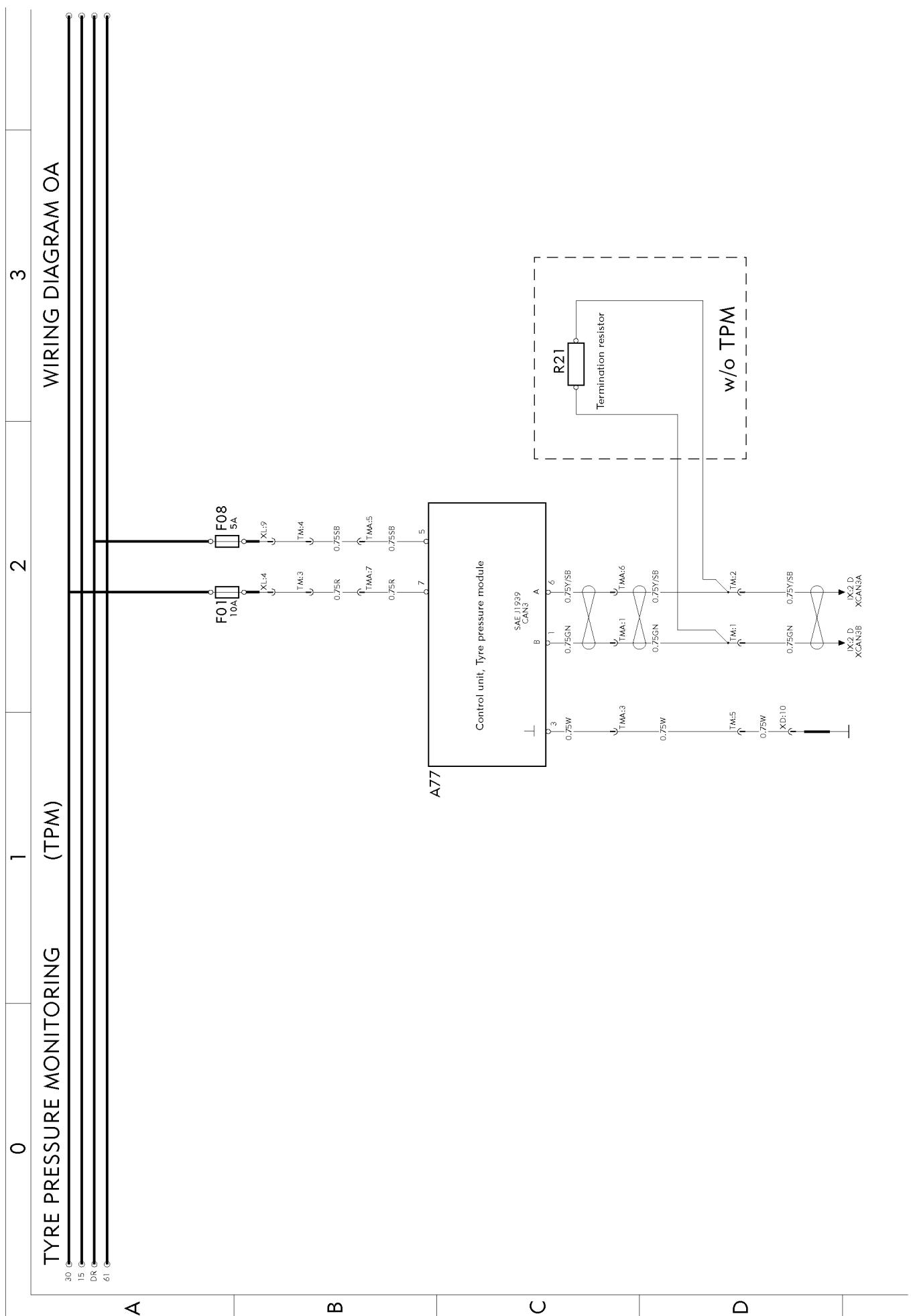
SPDU-S

3

WIRING DIAGRAM NX

卷之三



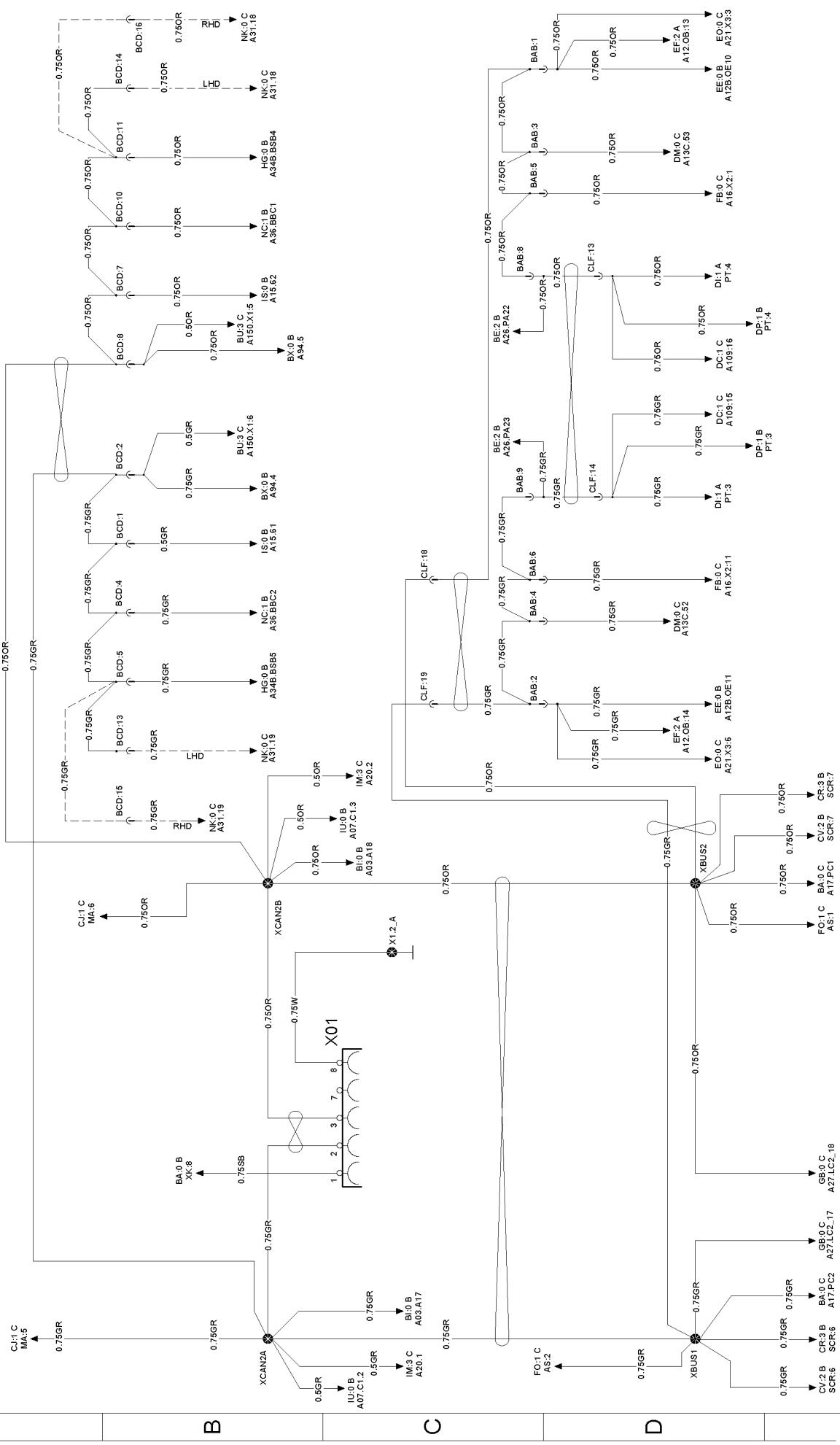


A

CJ1:1 C
MA:5

DR

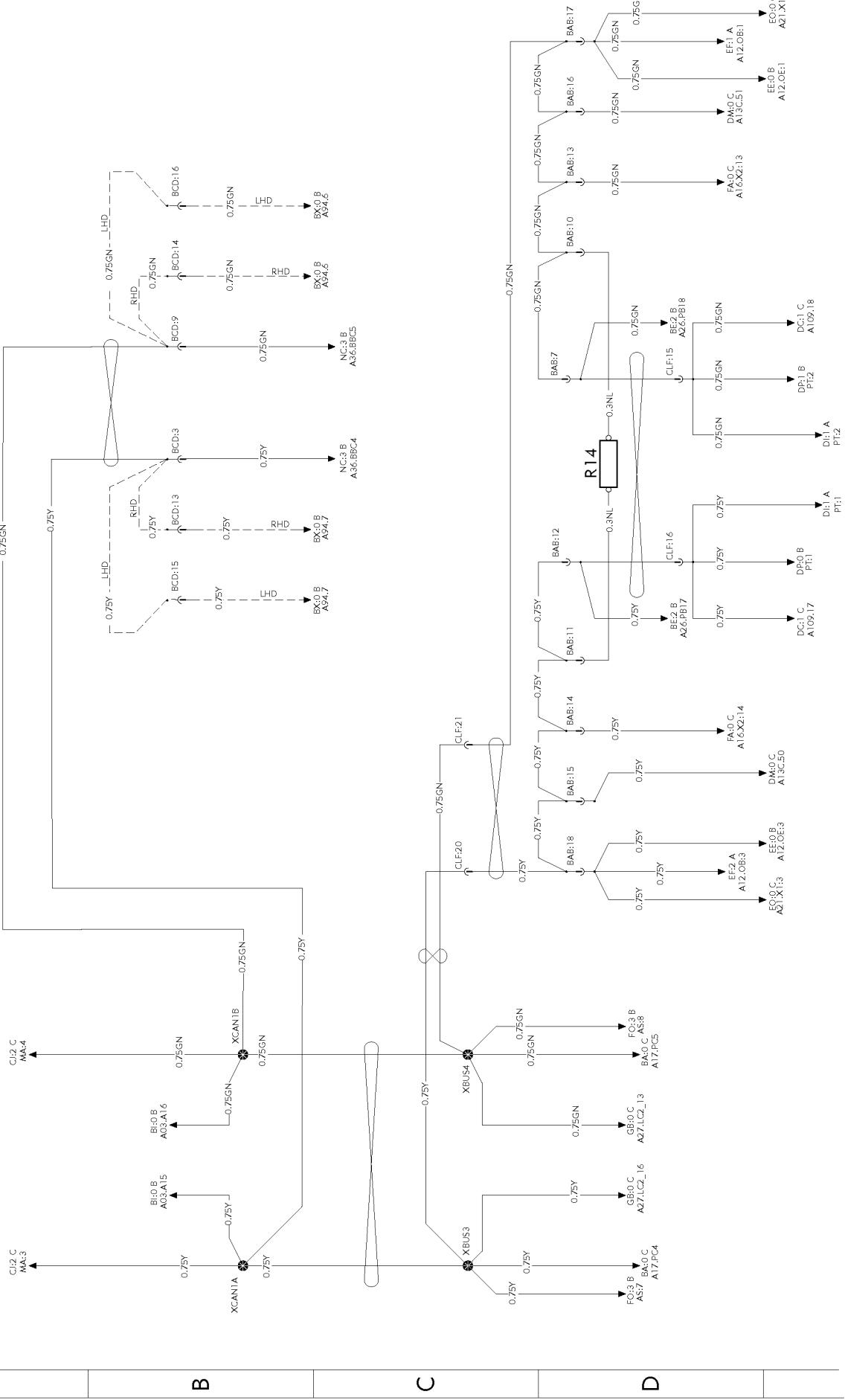
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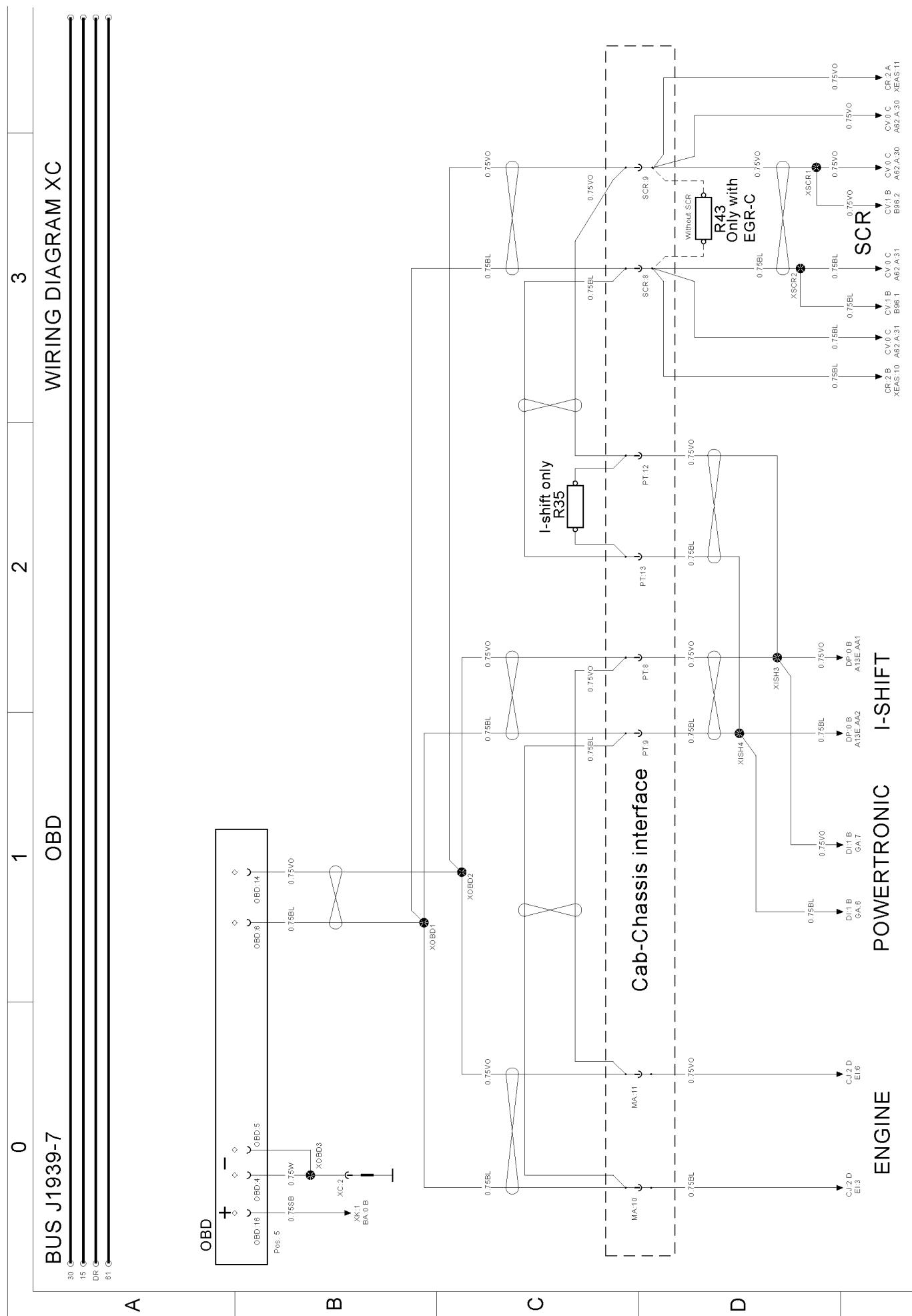


0
BUS J1939

Wiring diagram

WIRING DIAGRAM XB





GROUND CONNECTOR

3

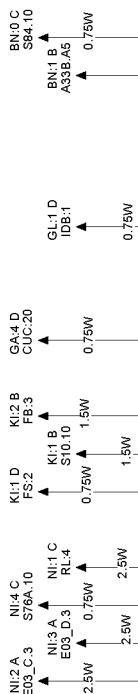
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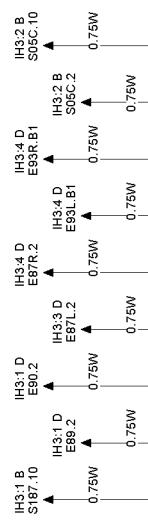
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WIRING DIAGRAM YA

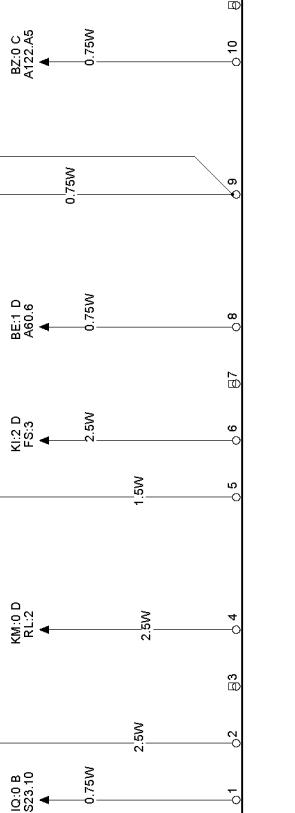
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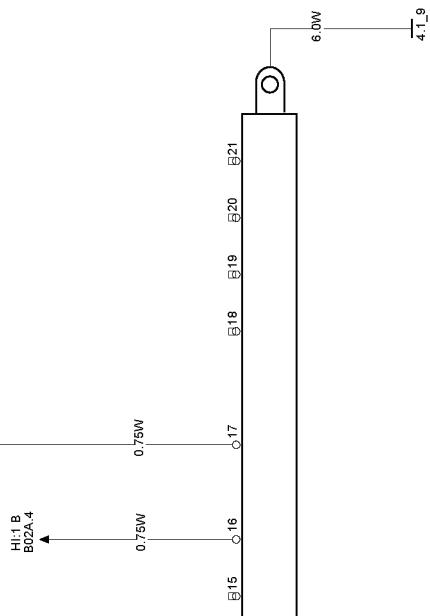
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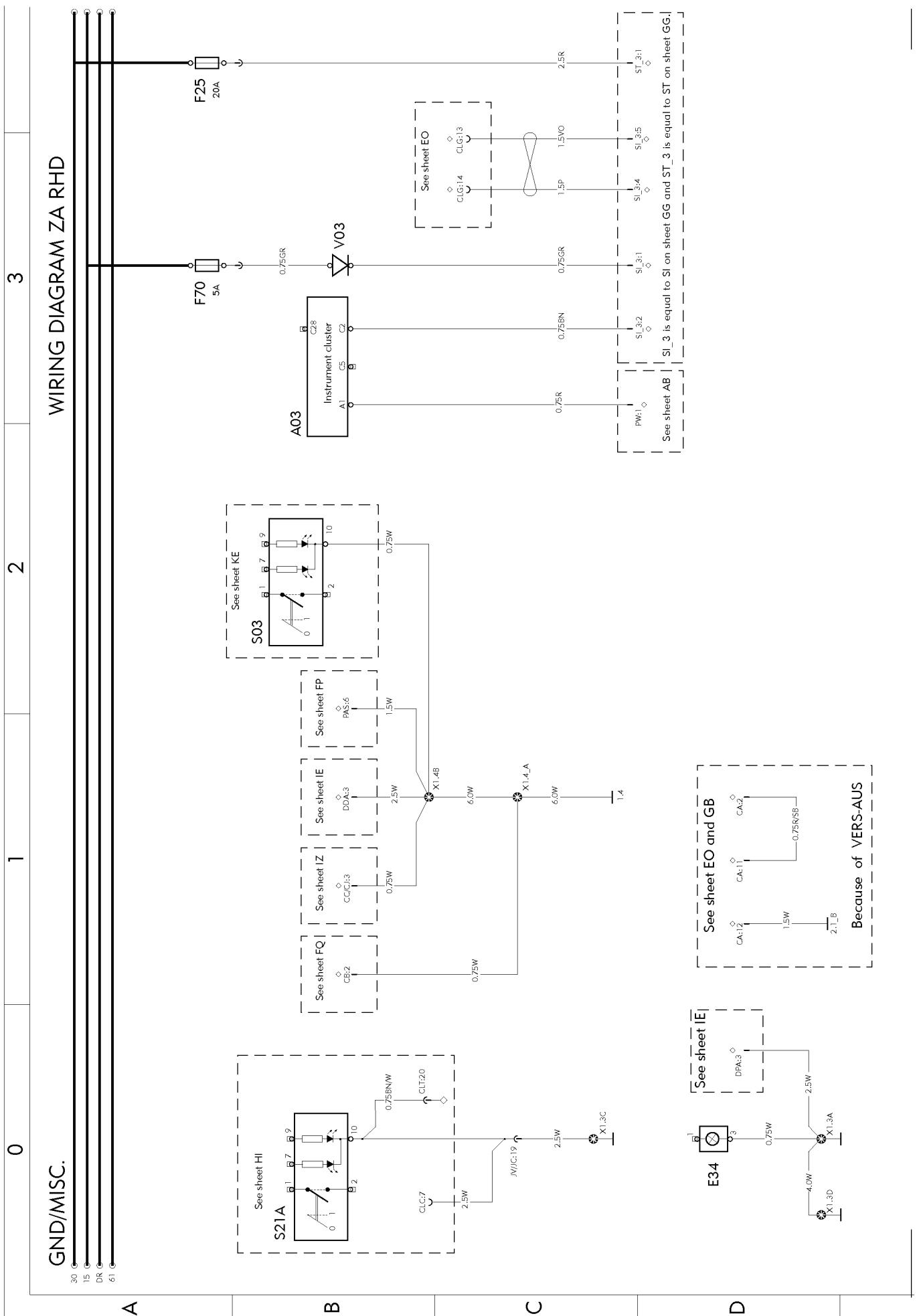


C



D



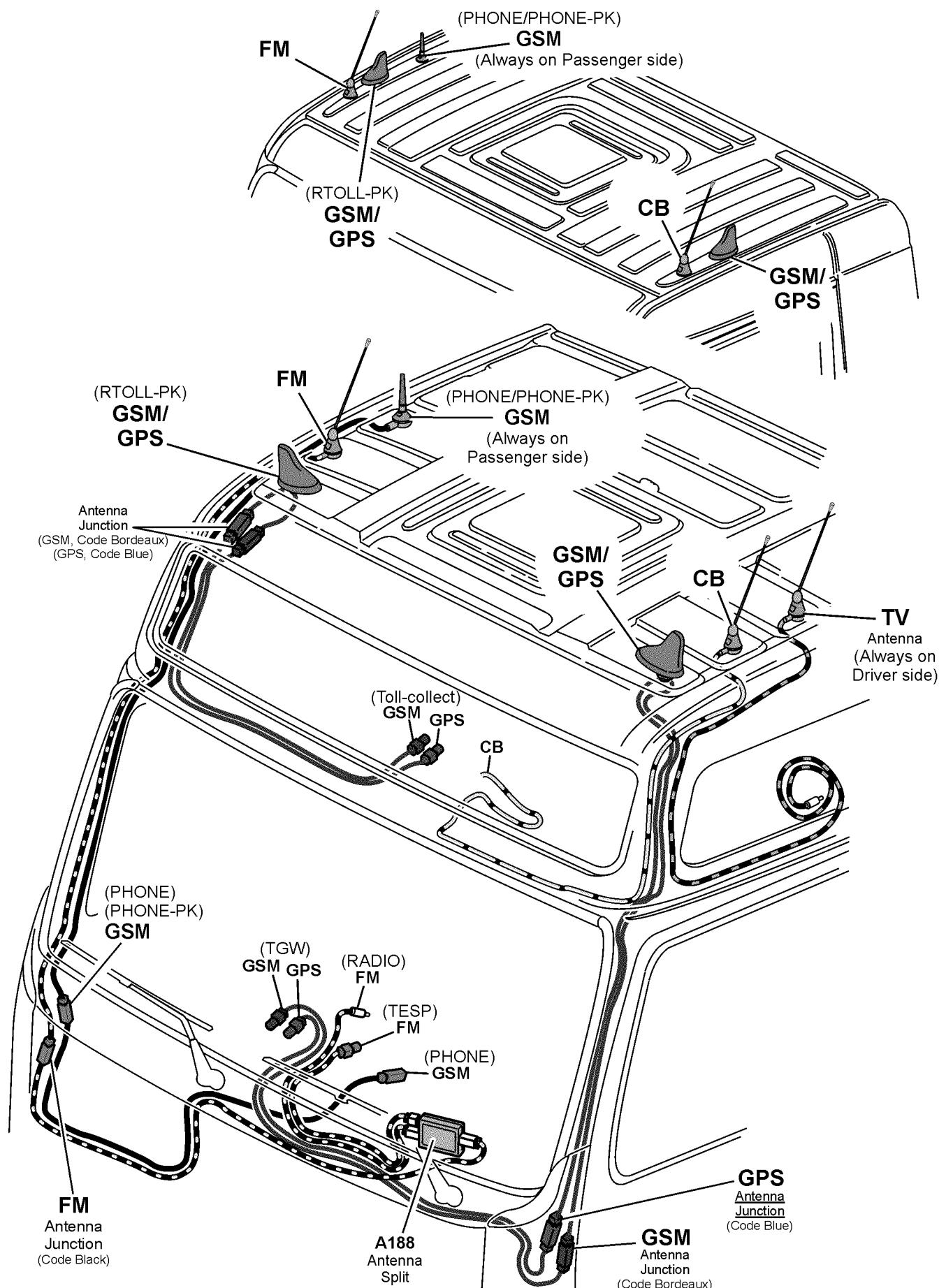


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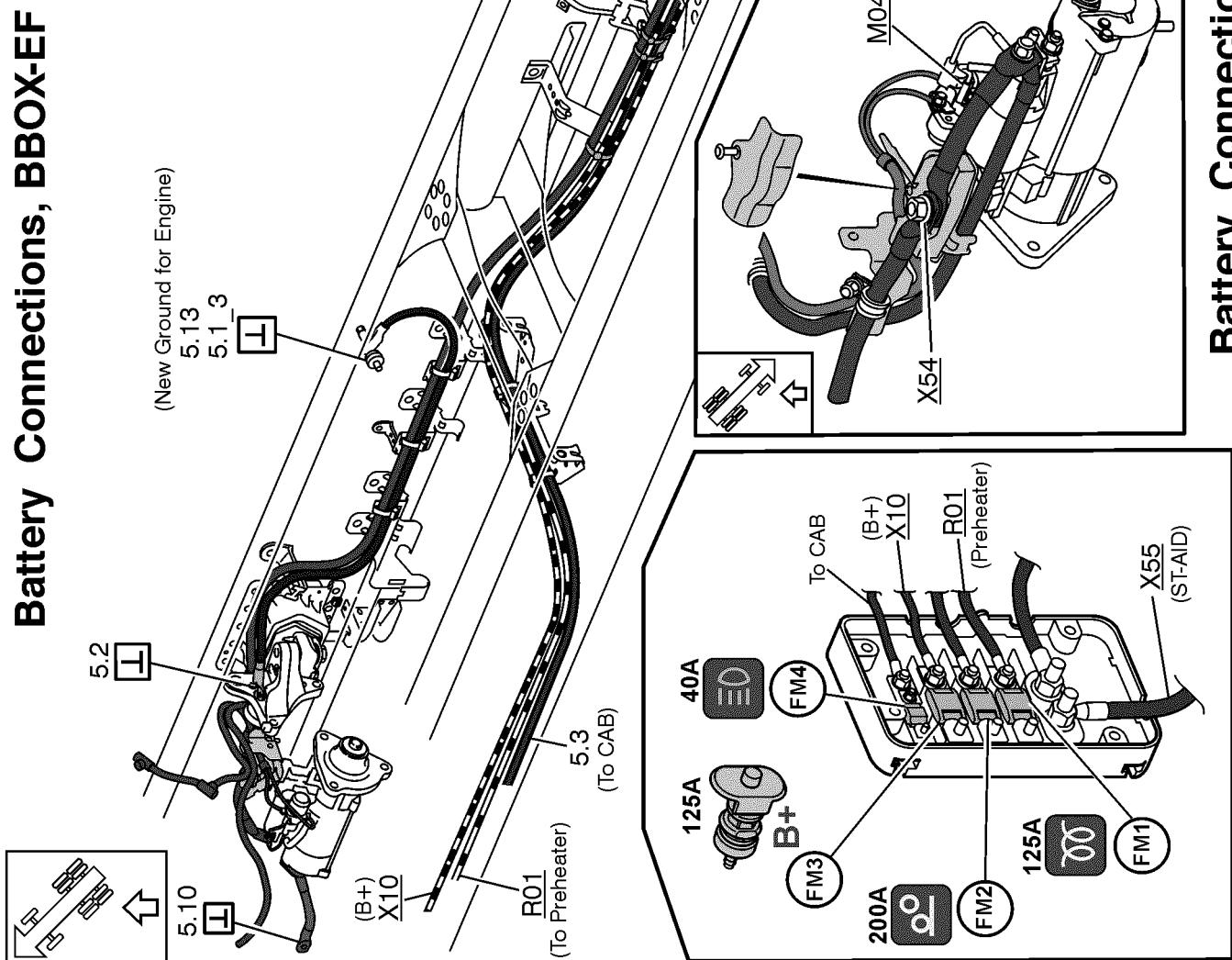
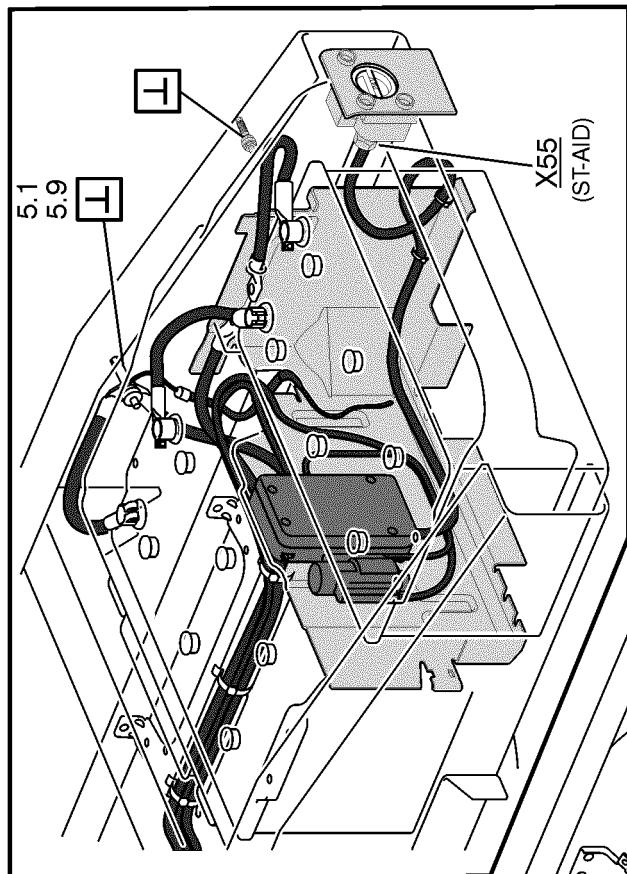
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Illustrations

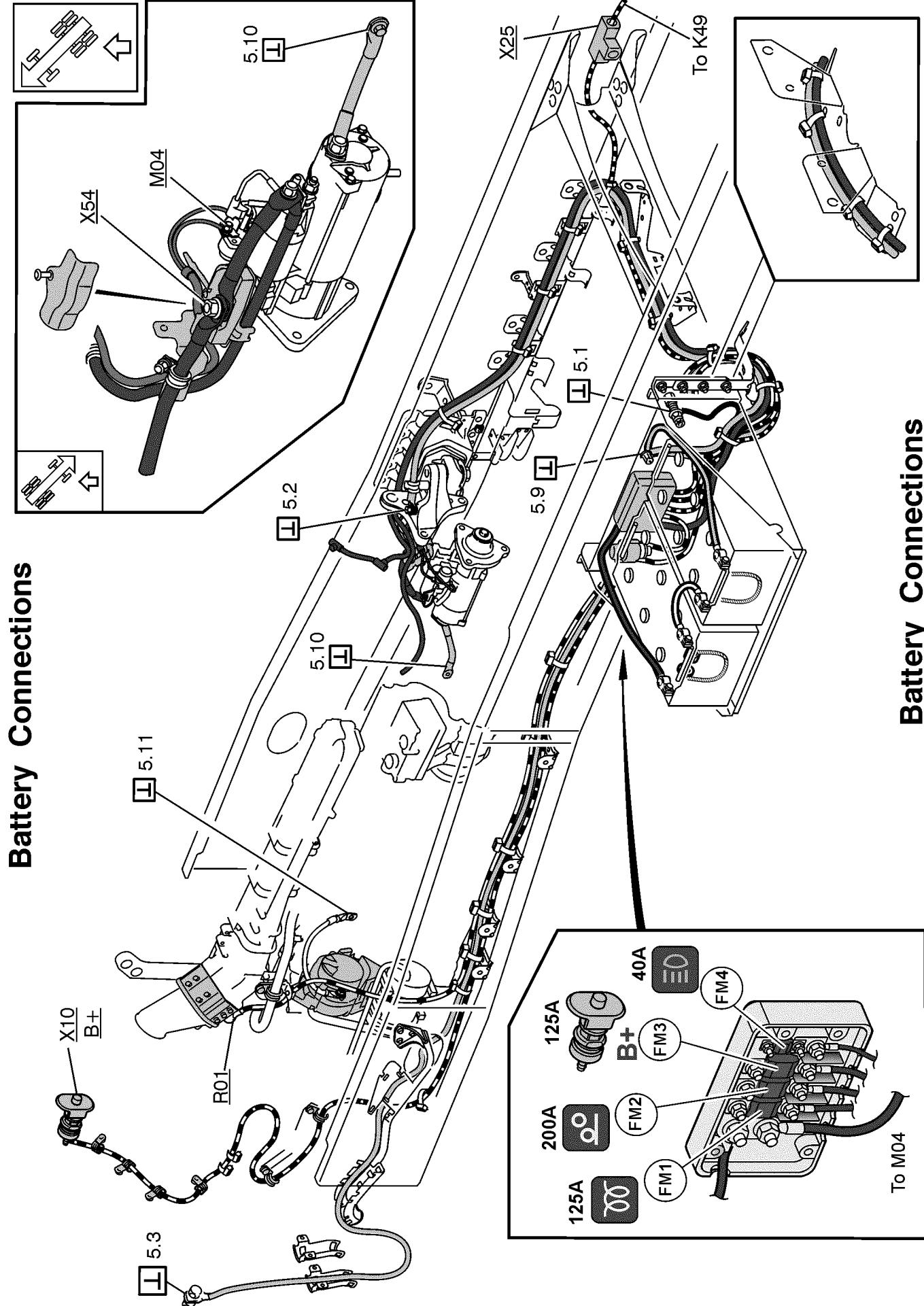


T3075452

Battery Connections, BBOX-EF



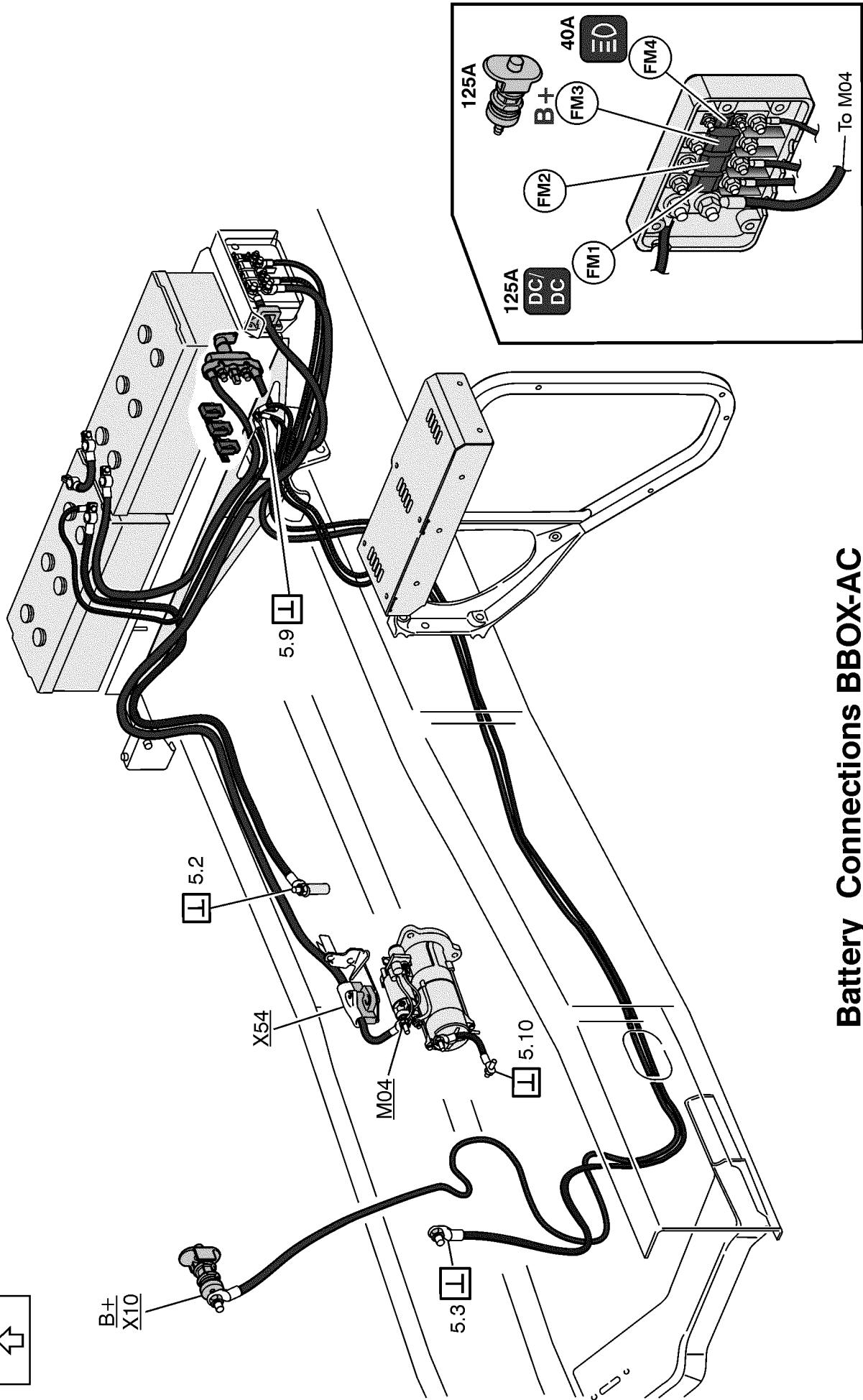
Battery Connections, BBOX-EF



Battery Connections

T3021554

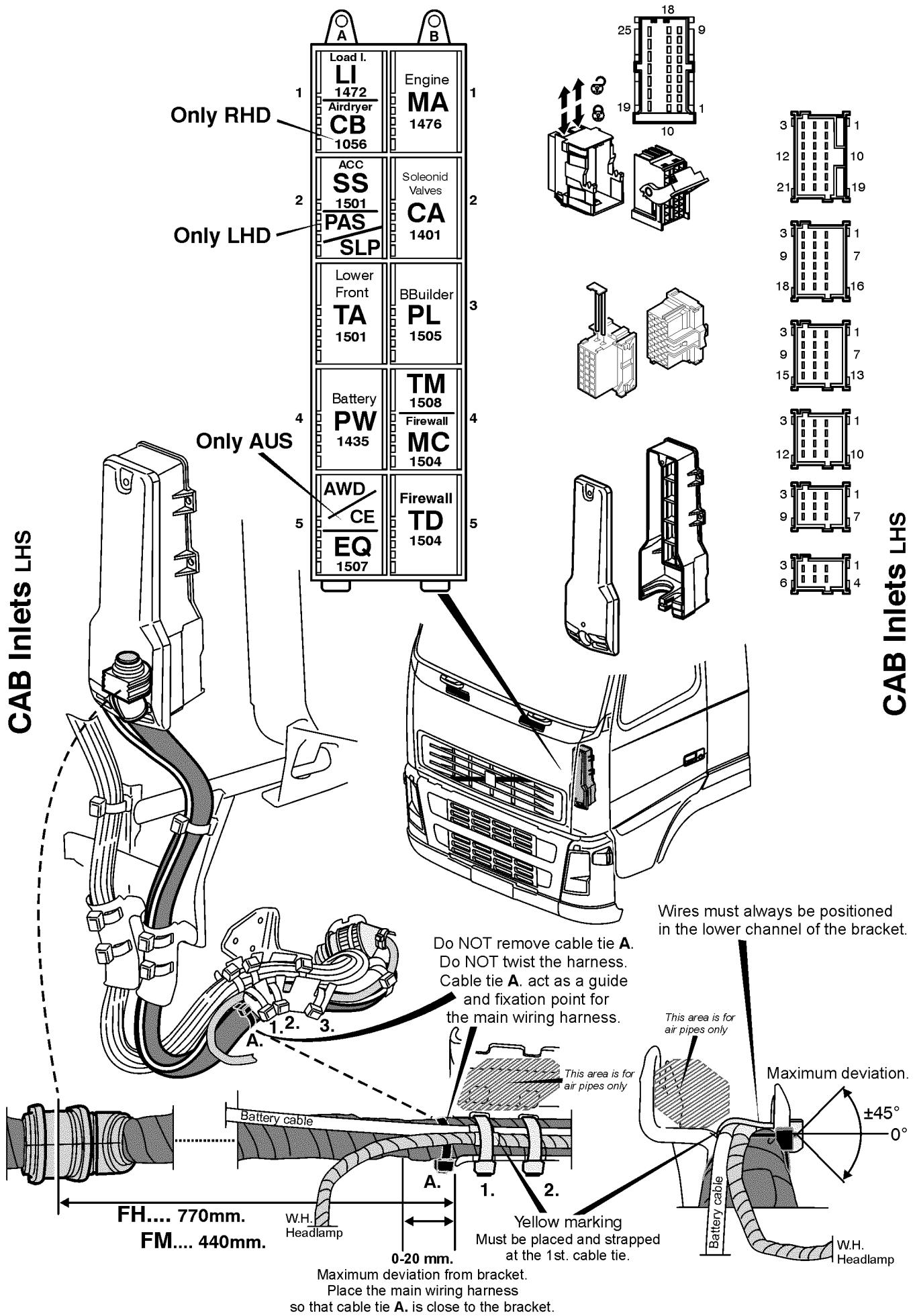
Battery Connections BBOX-AC



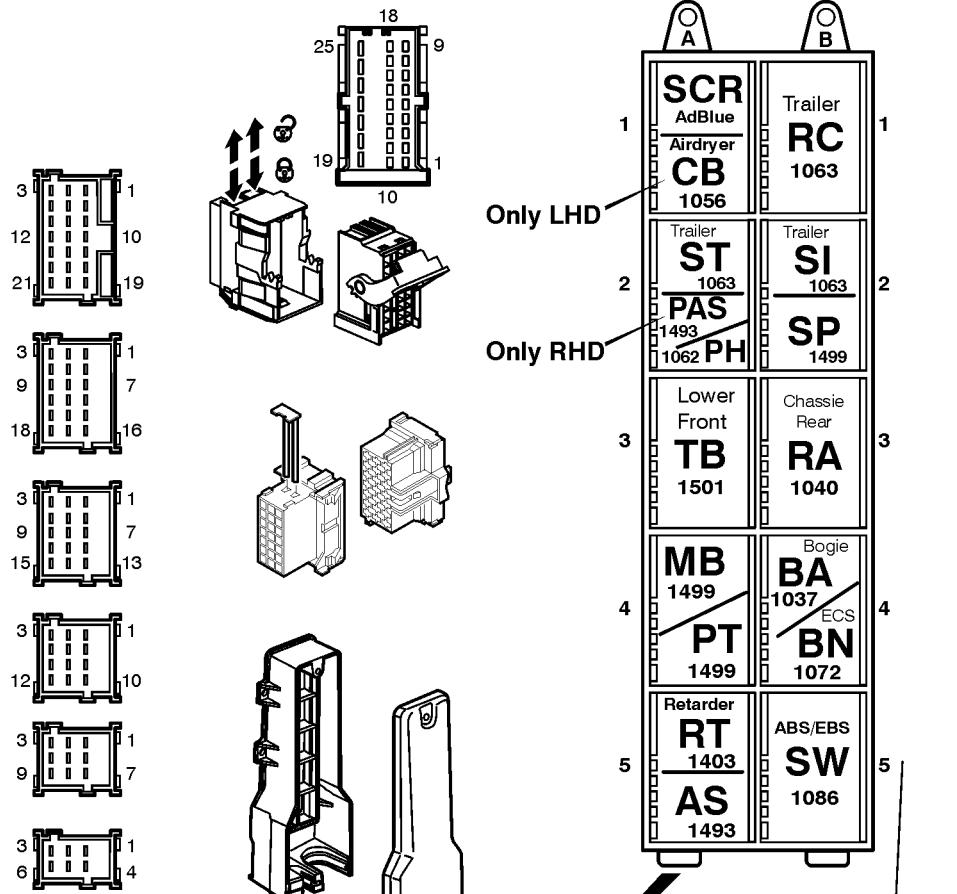
Battery Connections BBOX-AC

T3020632

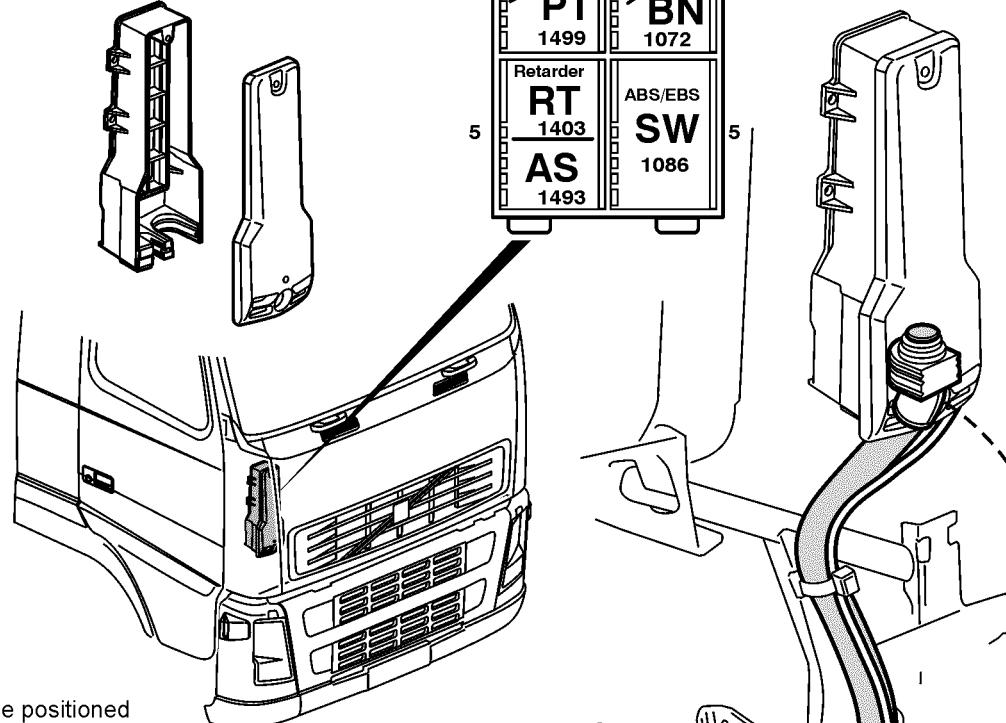
CAB Inlets LHS



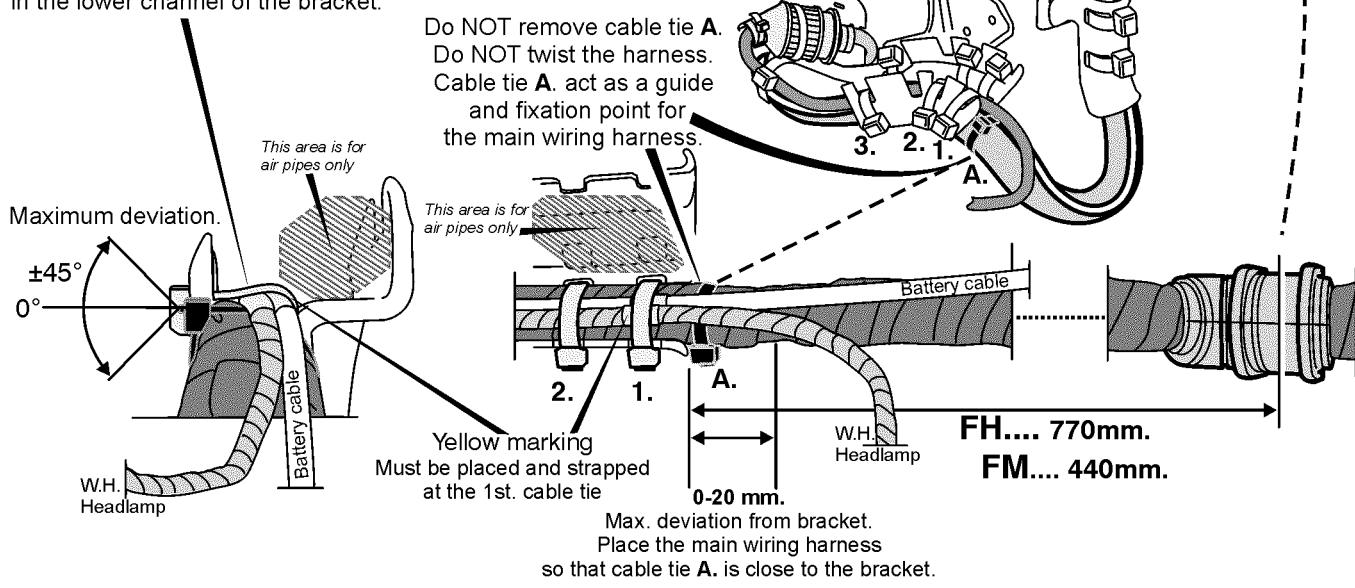
CAB Inlets RHS



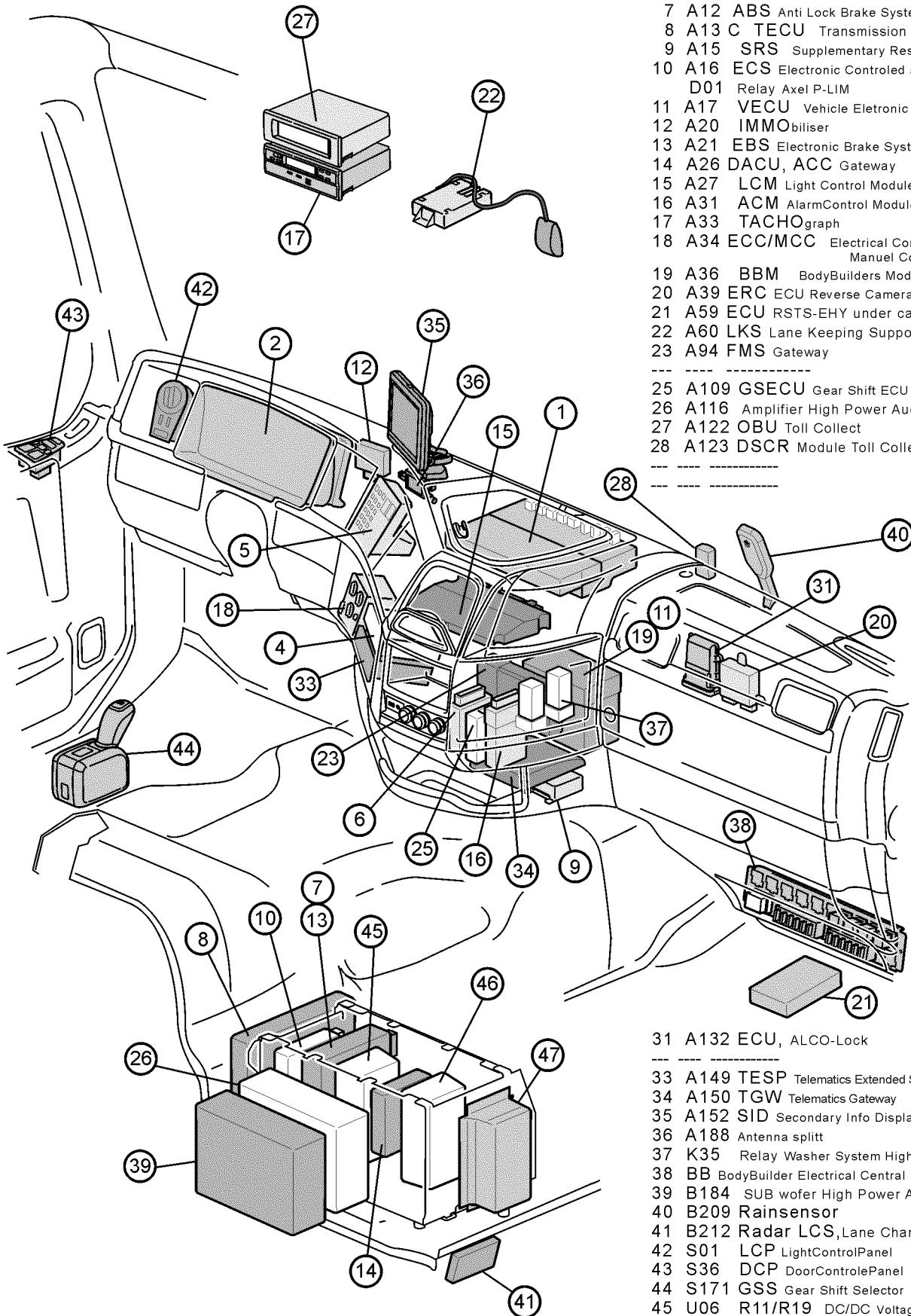
CAB Inlets RHS



Wires must always be positioned in the lower channel of the bracket.



T3060169



- 1 A01 FRC Fuse and RelayCenter
 2 A03 Instrument Cluster

 4 A07 Radio
 5 A09 Telephone
 6 A11 CLU Door Central Locking Unit
 7 A12 ABS Anti Lock Brake System
 8 A13 C TECU Transmission ECU Retarder
 9 A15 SRS Supplementary Restrain System
 10 A16 ECS Electronic Controlled air Suspension
 D01 Relay Axel P-LIM
 11 A17 VECU Vehicle Eletronic Control Unite
 12 A20 IMMOobiliser
 13 A21 EBS Electronic Brake System
 14 A26 DACU, ACC Gateway
 15 A27 LCM Light Control Module
 16 A31 ACM AlarmControl Module
 17 A33 TACHOgraph
 18 A34 ECC/MCC Electrical Controlled Climate/ Manuela Controlled Climate
 19 A36 BBM BodyBuilders Module
 20 A39 ERC ECU Reverse Camera
 21 A59 ECU RSTS-EHY under cab floor
 22 A60 LKS Lane Keeping Support System
 23 A94 FMS Gateway

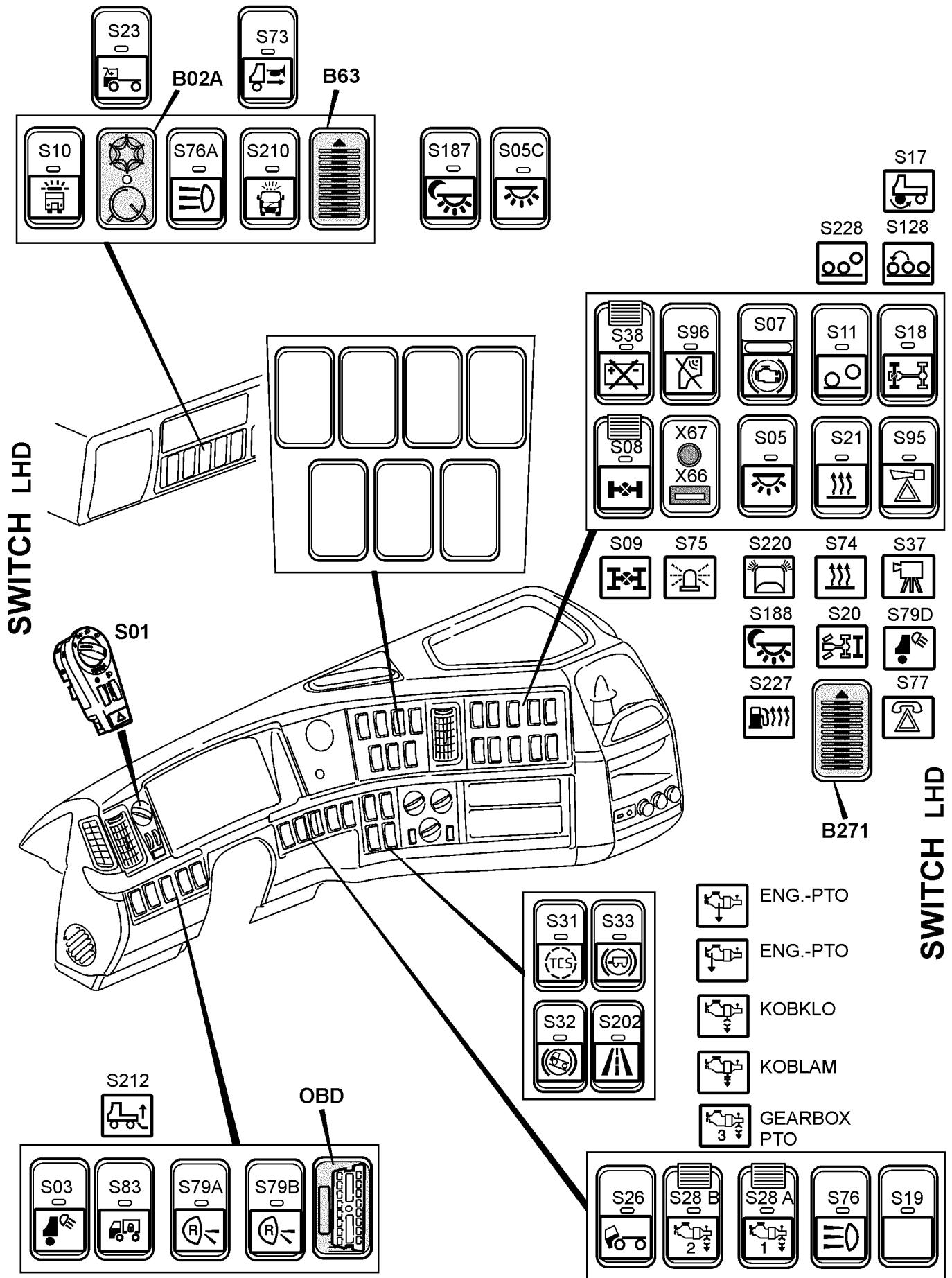
 25 A109 GSECU Gear Shift ECU
 26 A116 Amplifier High Power Audio
 27 A122 OBU Toll Collect
 28 A123 DSCR Module Toll Collect

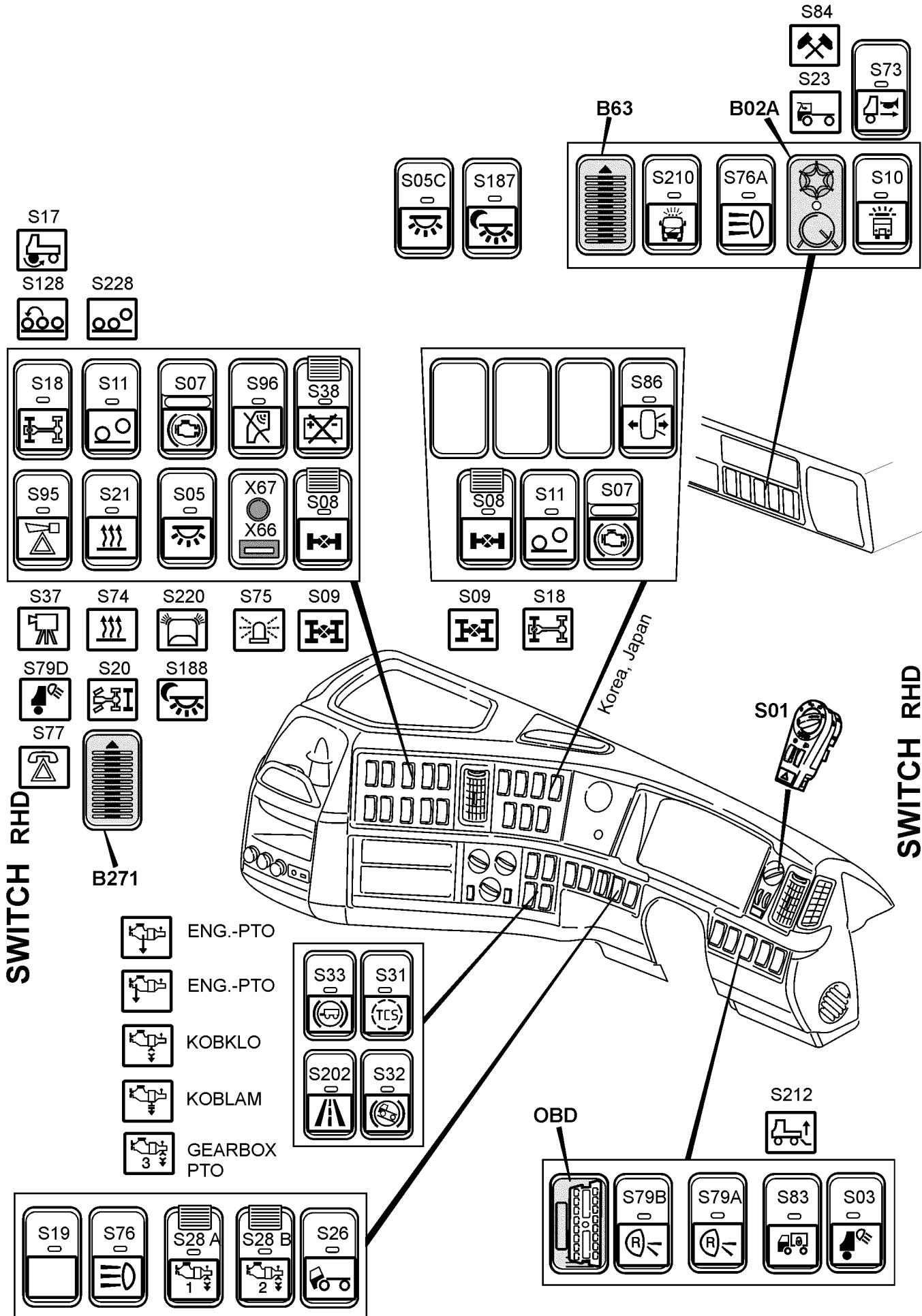
 31 A132 ECU, ALCO-Lock

 33 A149 TESP Telematics Extended Service Platform
 34 A150 TGW Telematics Gateway
 35 A152 SID Secondary Info Display
 36 A188 Antenna split
 37 K35 Relay Washer System High Pressure
 38 BB BodyBuilder Electrical Central
 39 B184 SUB wofer High Power Audio
 40 B209 Rainsensor
 41 B212 Radar LCS,Lane Changing Support
 42 S01 LCP LightControlPanel
 43 S36 DCP DoorControlePanel
 44 S171 GSS Gear Shift Selector
 45 U06 R11/R19 DC/DC Voltage Converter
 46 U06 B11 DC/DC Voltage Converter
 47 U10 DC/DC Voltage Converter ABS Australia

Cross index component number-MID number

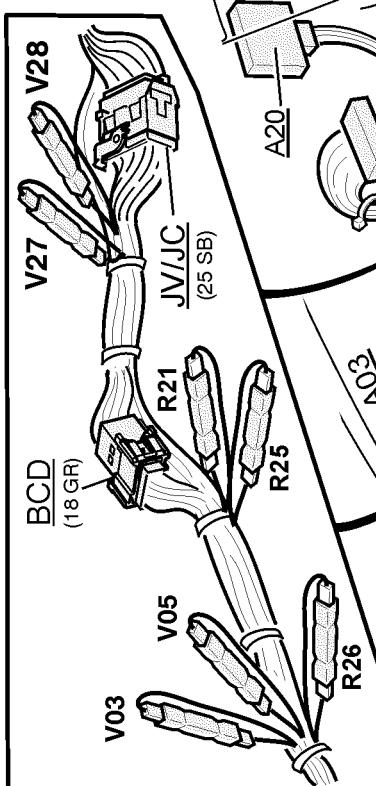
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A03 Instrument cluster	MID 140
A07 Radio	MID 206
A09 Telephone	MID 231
A12 Control unit ABS (Anti-lock Brake System)	MID 136
A13B Control unit TECU (Automatic transmission)	MID 130
A13C Control unit Retarder	MID 222
A13E Control unit TECU (Automatic transmission)	MID 130
A14 Control unit EMS (Engine Management System)	MID 128
A15 Control unit SRS (Supplementary Restraint System)	MID 232
A16 Control unit ECS (Electronic Controlled air Suspension)	MID 150
A17 Control unit VECU (Vehicle ECU)	MID 144
A20 Control unit Immobiliser	MID 163
A21 Control unit EBS (Electronic Brake System)	MID 136
A26 Control unit DACU	MID 238
A27 Control unit LCM (Light Control Module)	MID 216
A31 Control unit burglar alarm	MID 214
A33 Tachograph	MID 220
A34 Control unit climate unit	MID 146
A36 Control unit BBM (Body Builder Module)	MID 249
A59 Control unit RAS (Rear Axle Steering)	MID 184
A60 Control unit LKS (Lane Keeping Support System)	MID 248
A77 Control unit TPM (Tyre pressure monitoring)	MID 166
A94 Control unit FMS Gateway (Fleet Management System)	MID 179
A109 Control unit GSECU (Gearshift ECU)	MID 223
A125 Control unit TGW (Telematics Gateway)	MID 141
A126 Control unit TTU (Telematics Terminal Unit)	MID 203
B120 Radar ACC (Adaptive Cruise Control)	MID 219
B212 Radar LCS (Lane Change Support)	MID 204



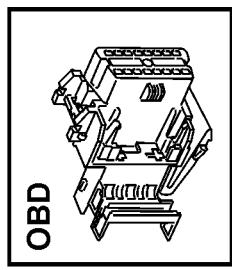
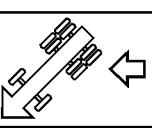
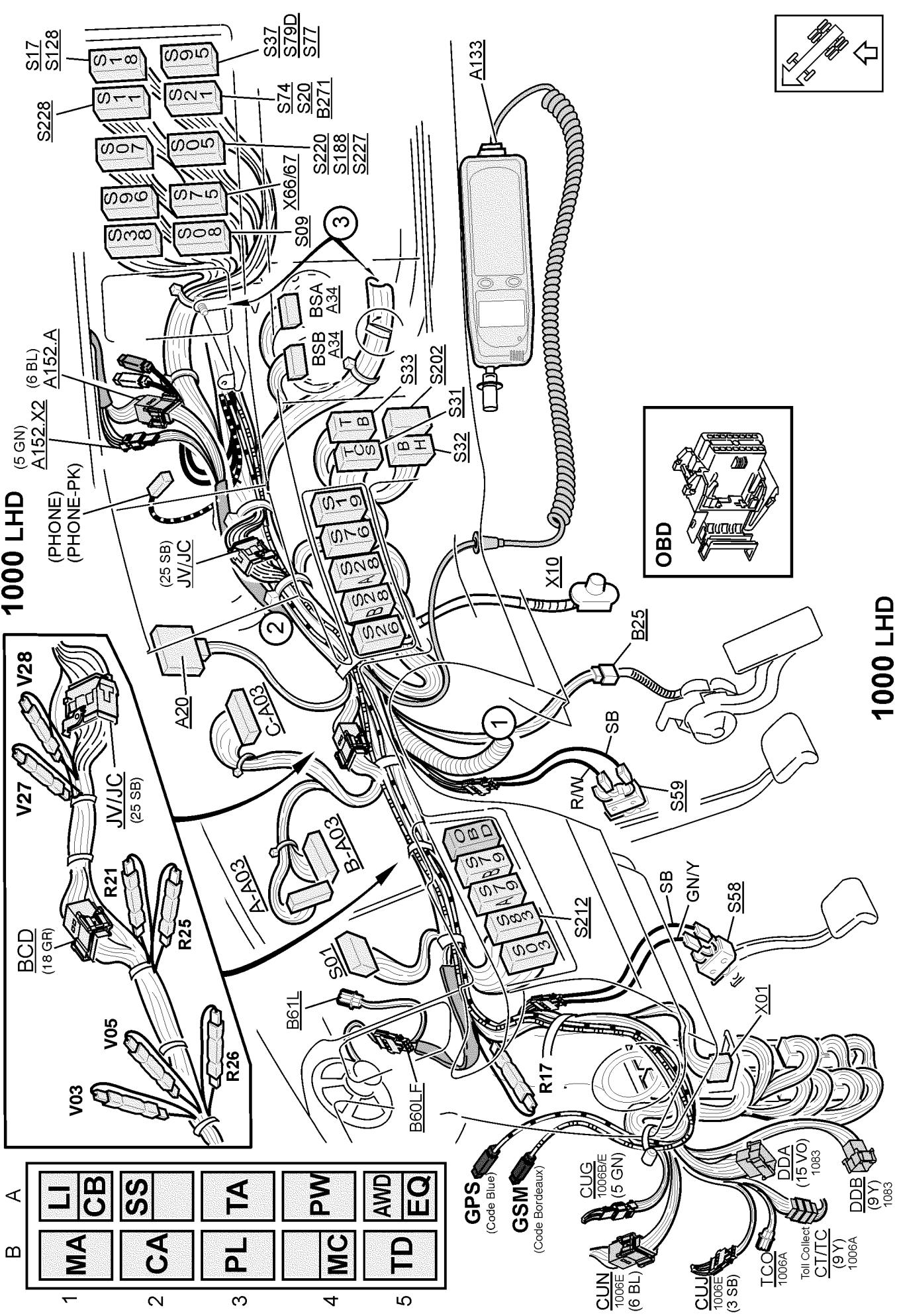


T3075972

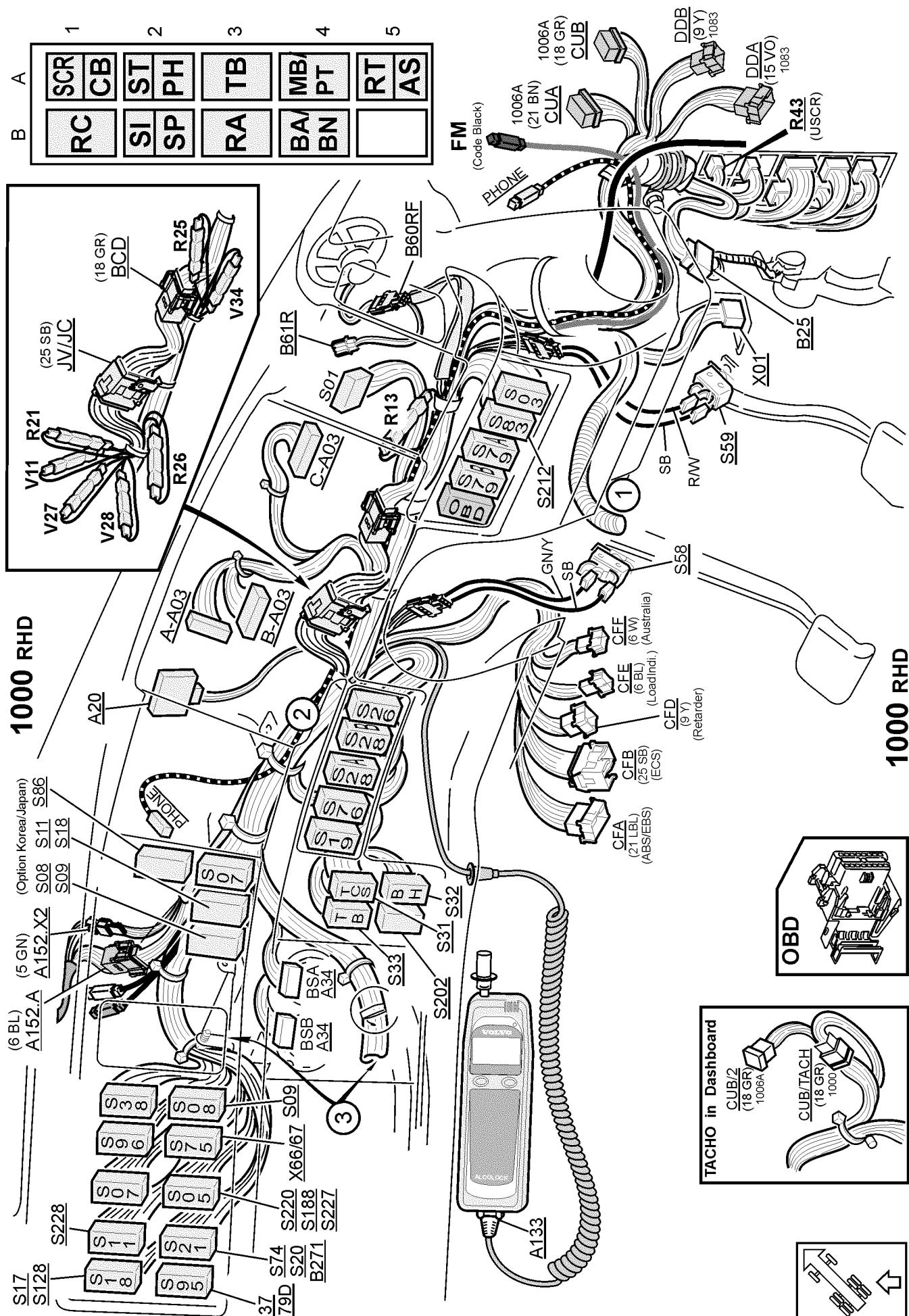
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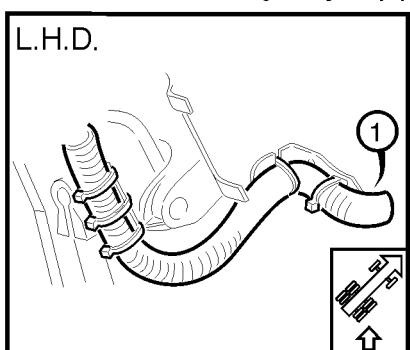
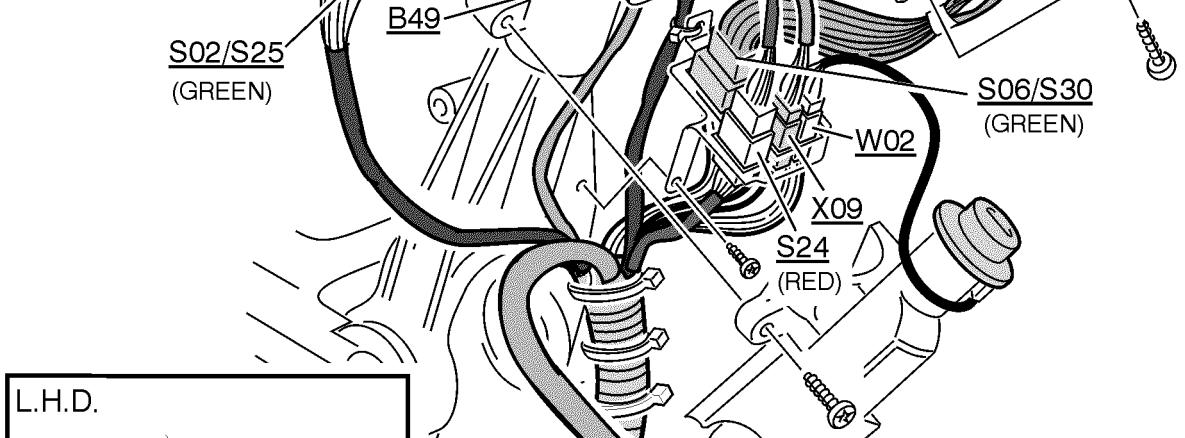
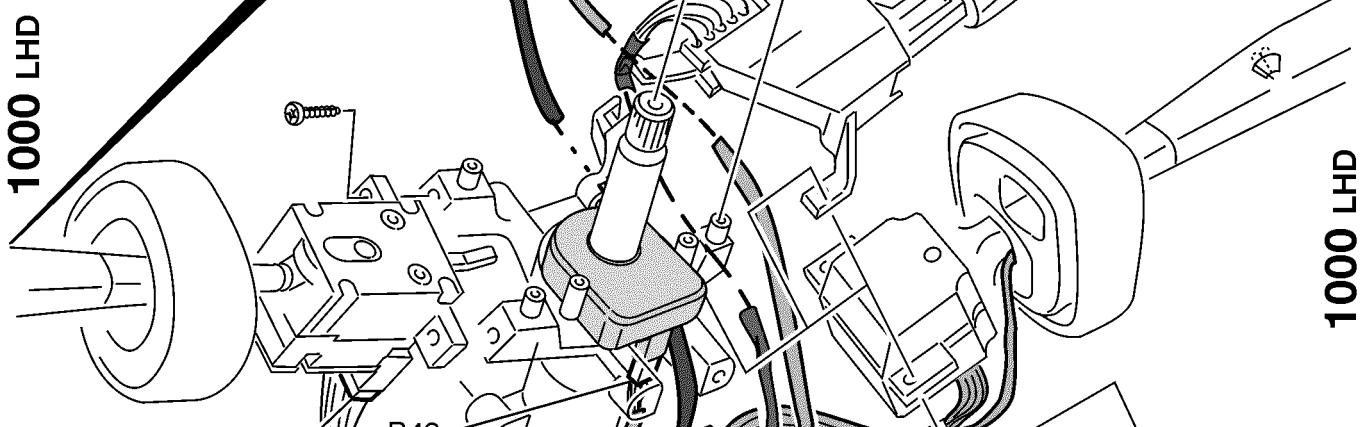
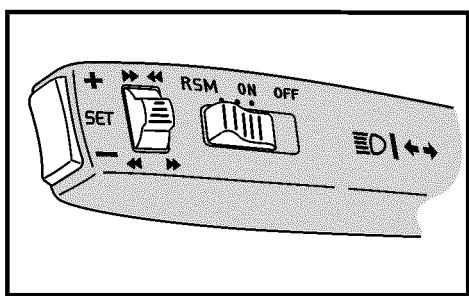
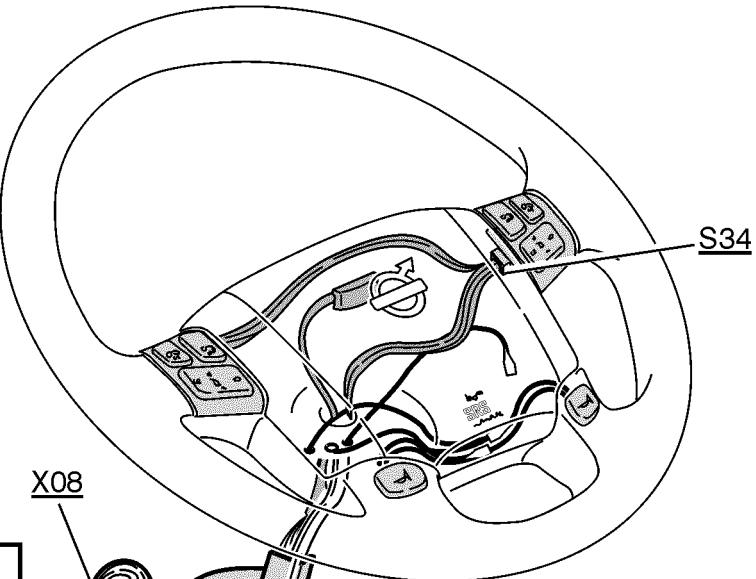
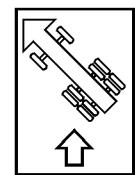
A	LI	CB	SS	TA	PW	AWD	EQ
B	MA	CA	PL	MC	TD		
1							
2							
3							
4							
5							



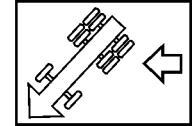
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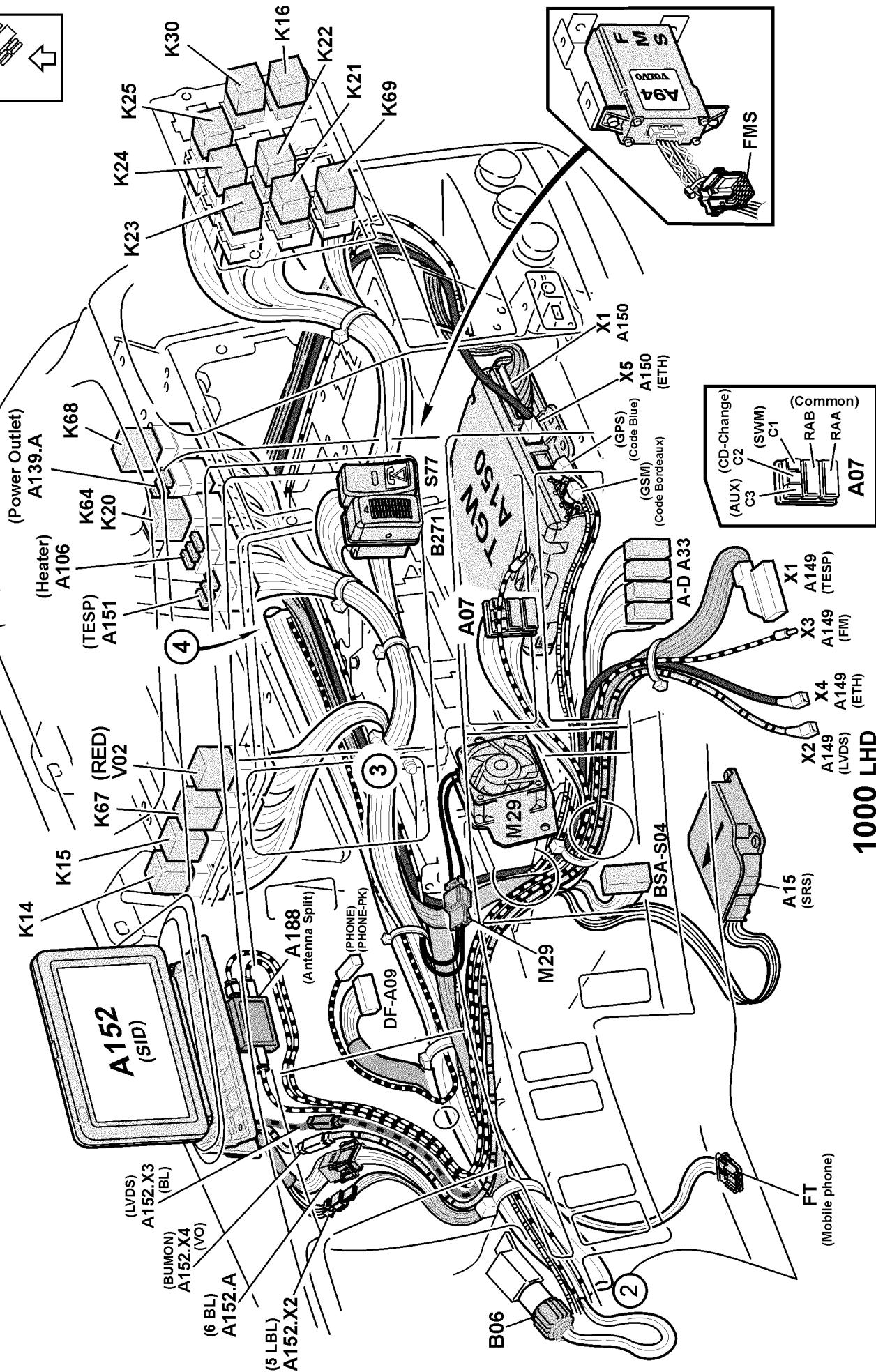
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T3059935

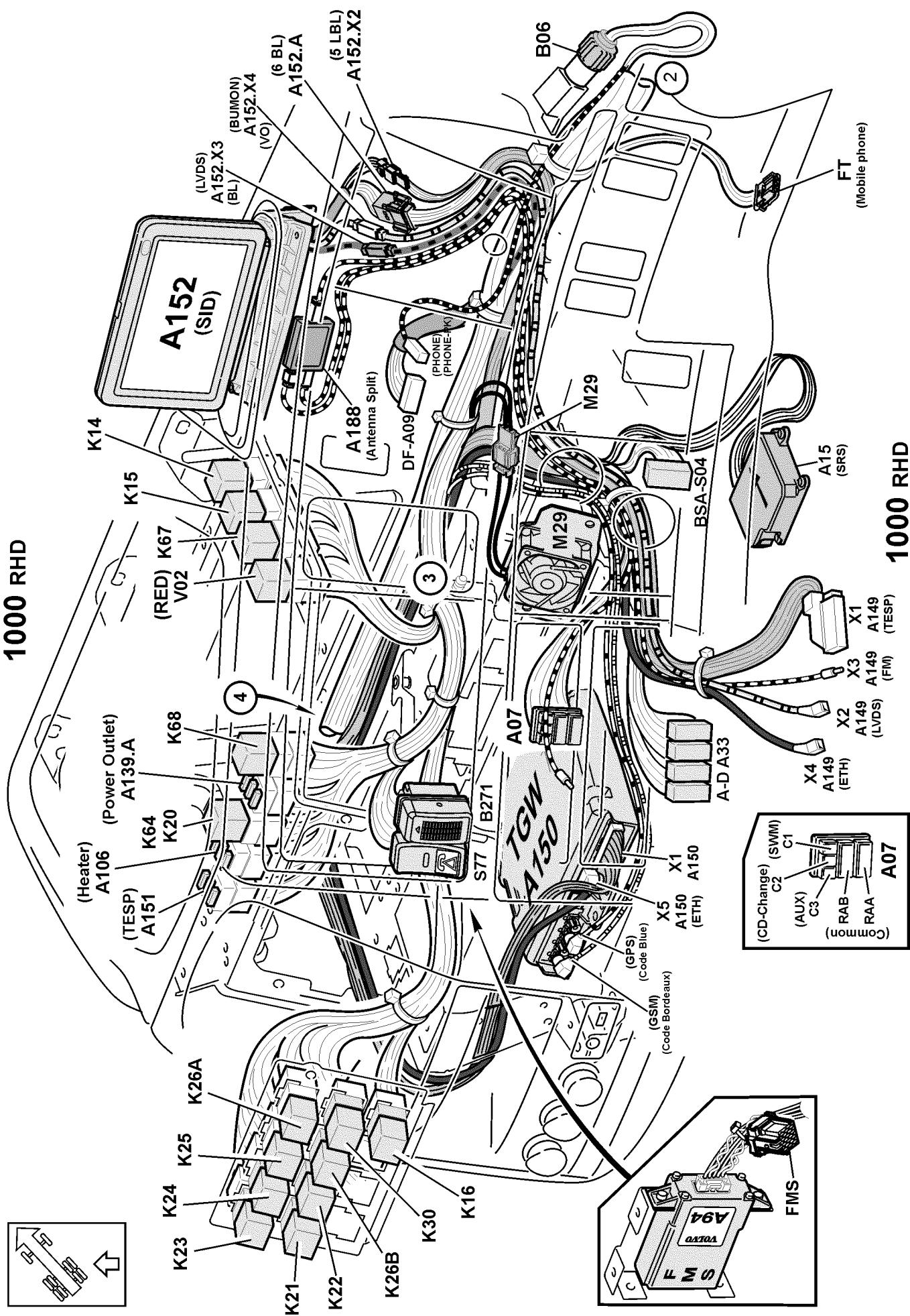


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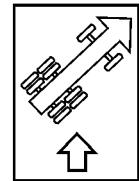


T3075458

1000 RHD



T3075459

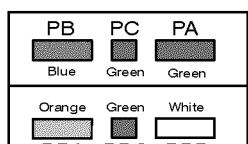


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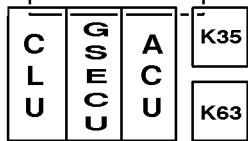
PC2 LC2 LC1 PC1

LCM
A27

A02L



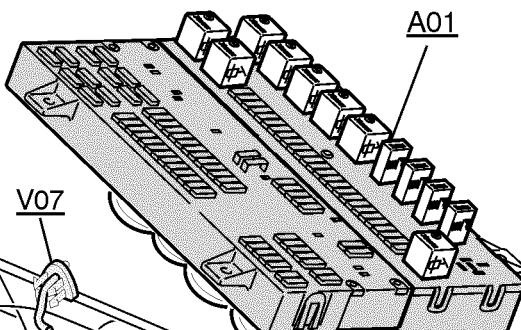
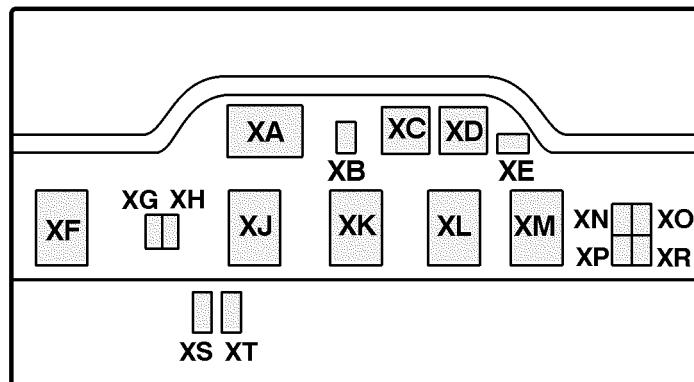
FMS A94



(16 LBL) (22 GN) (30 GN)

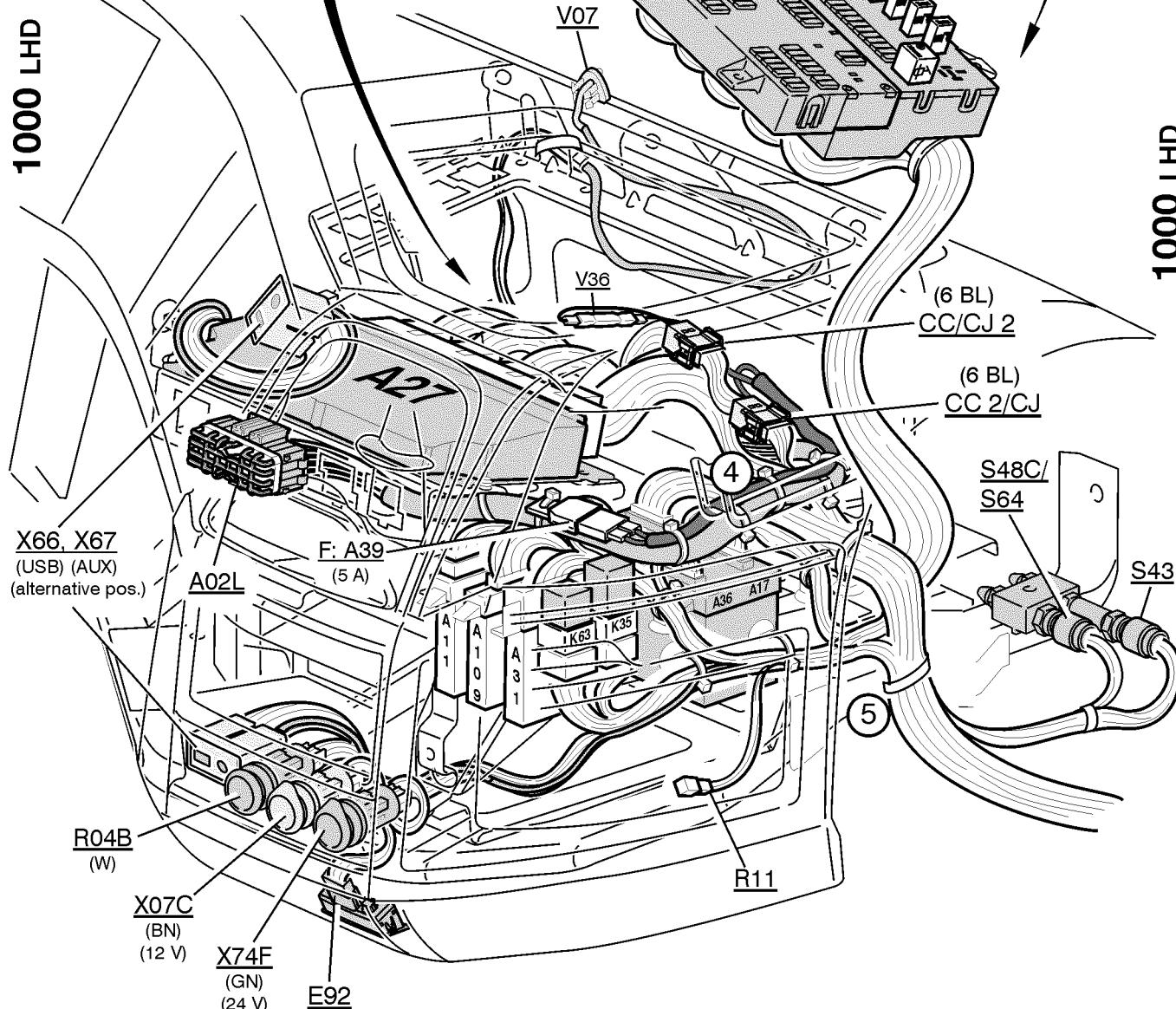
A17
VECU

A36
BBM

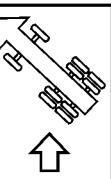
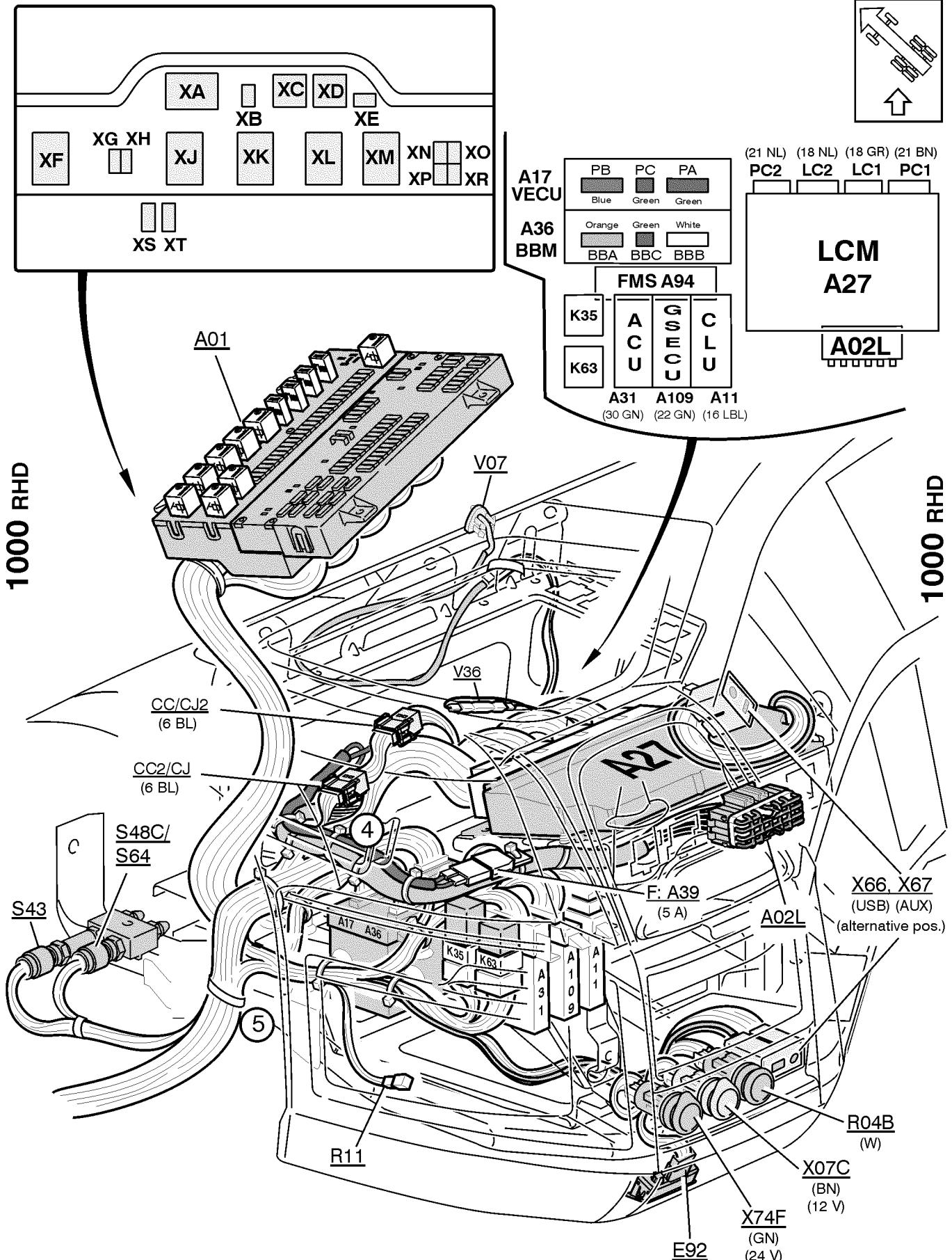


1000 LHD

1000 LHD



T3059938



**LCM
A27**

A02L

1000 RHD

**X66, X67
(USB) (AUX)**

(alternative pos.)

**R04B
(W)**

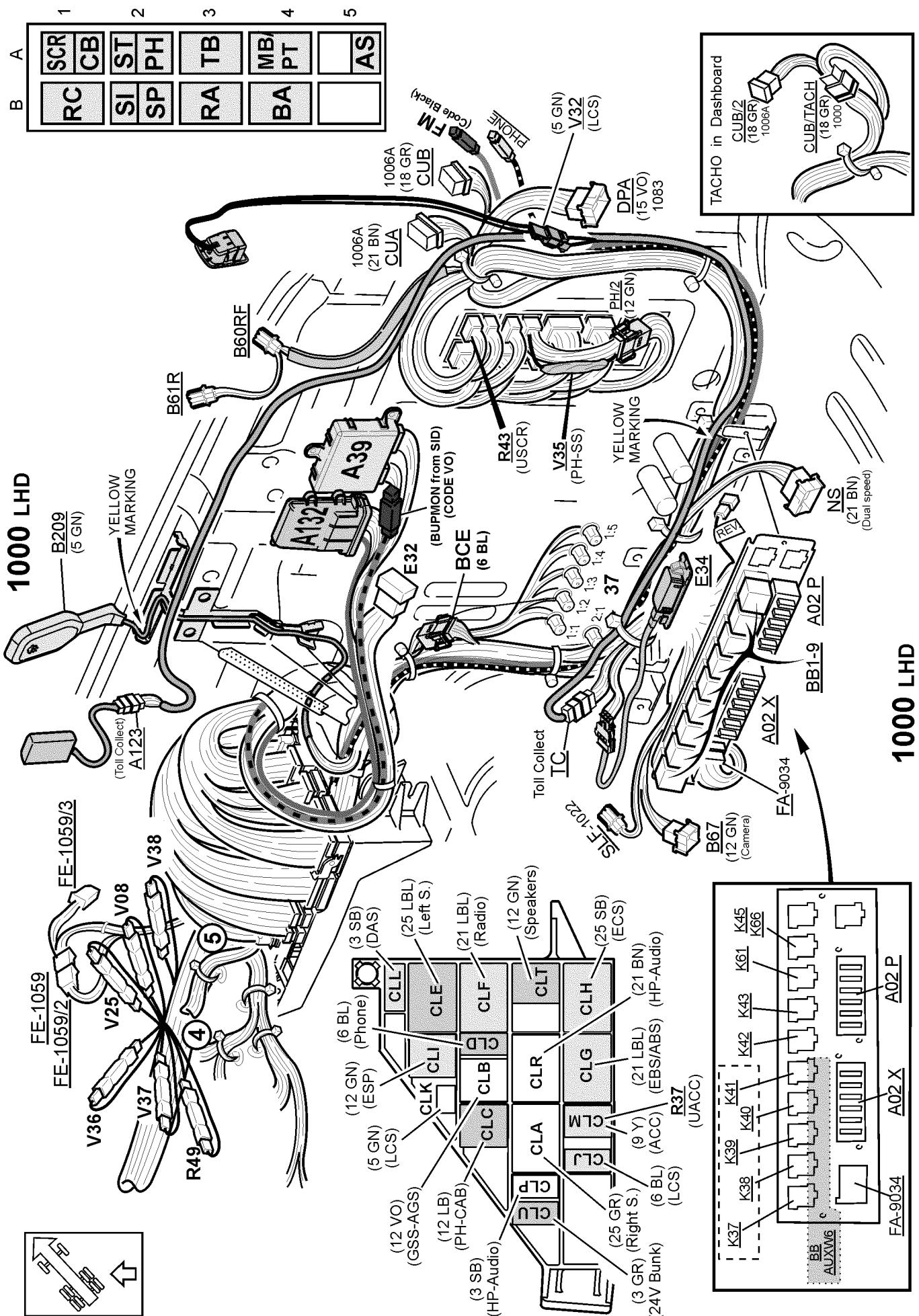
**X07C
(BN)**

(12 V)

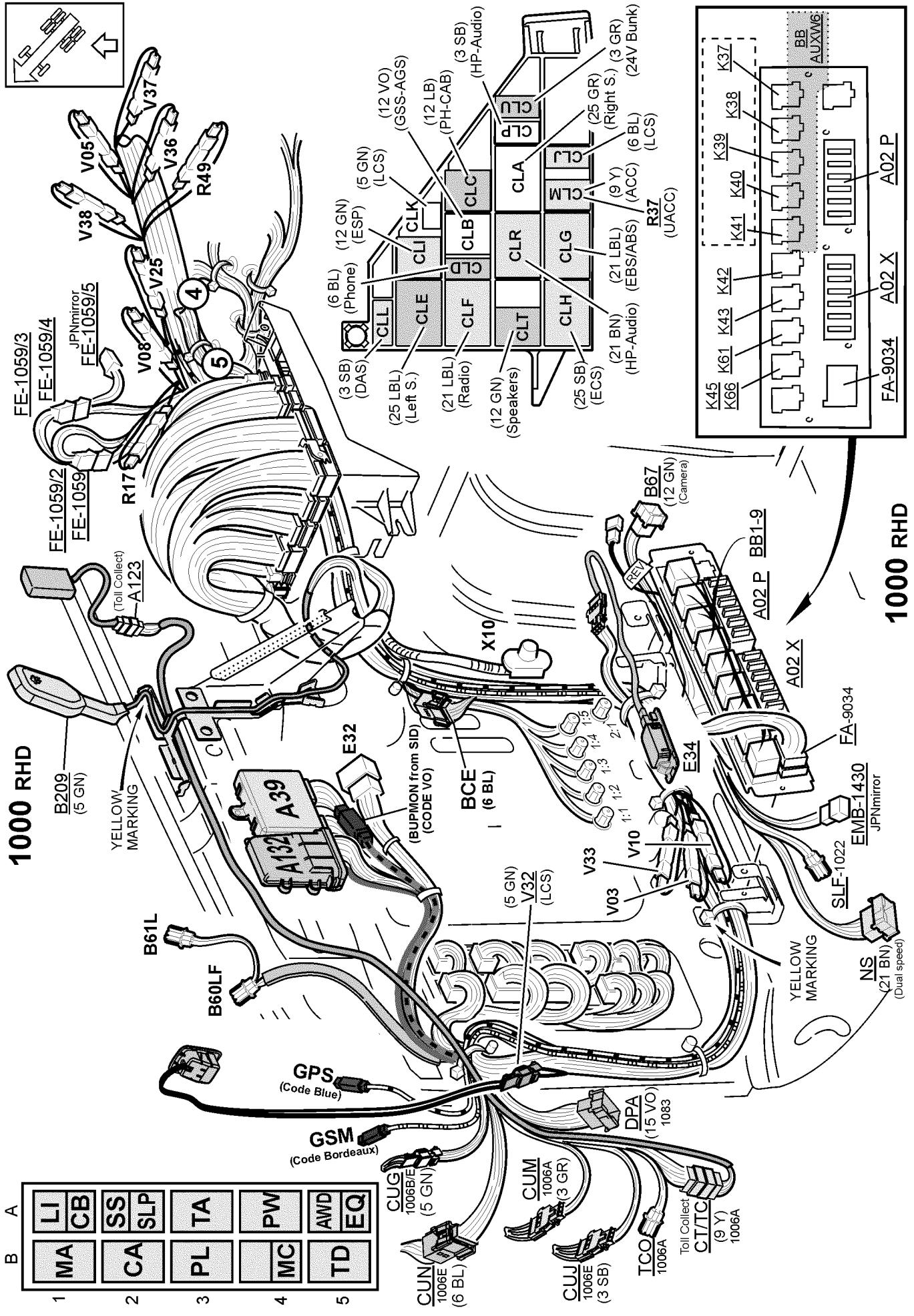
**X74F
(GN)**

(24 V)

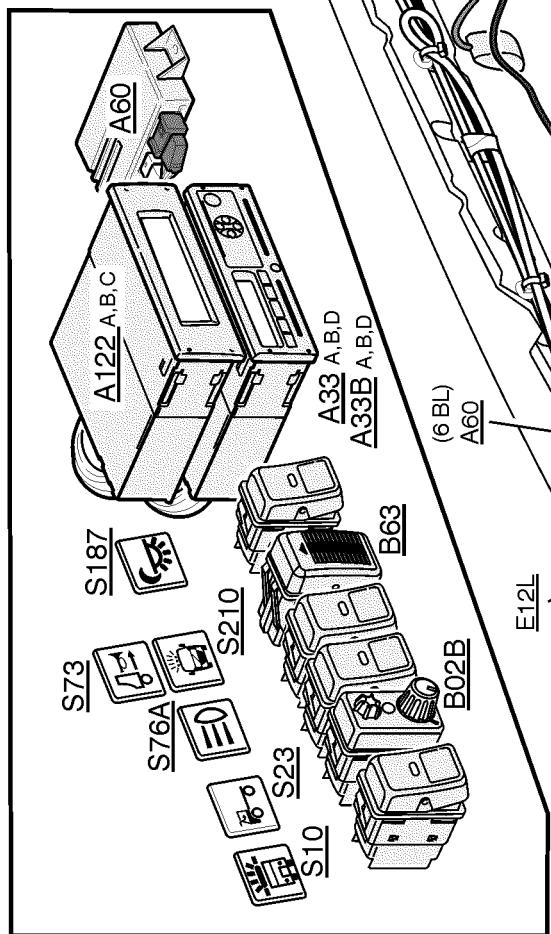
T3059939



T3075823



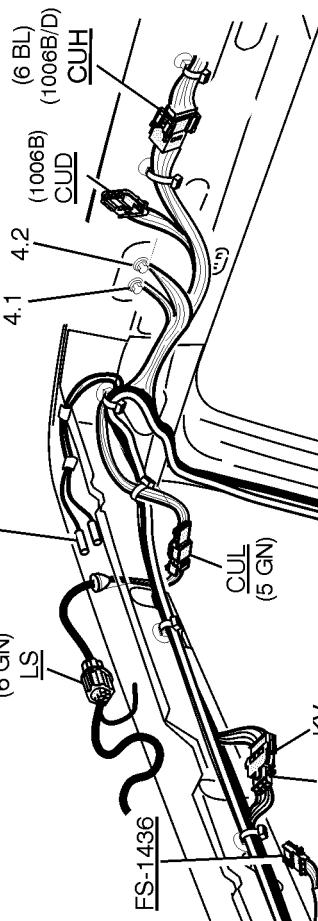
1006A, H1



E12 R

(6 GN)
LS

CUL
(5 GN)



1006A

A60

A122 A,B,C
A33 A,B,D
A33B A,B,D

CUF-1061

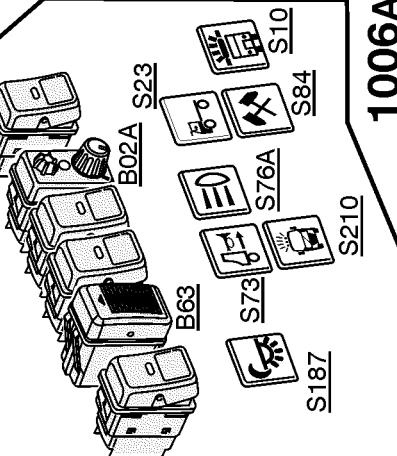
IDAC
IDB C

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SLR-1022
FB-1059

A33.B8

CUA-1000
(21 BN)

CUB-1000
(18 GR)

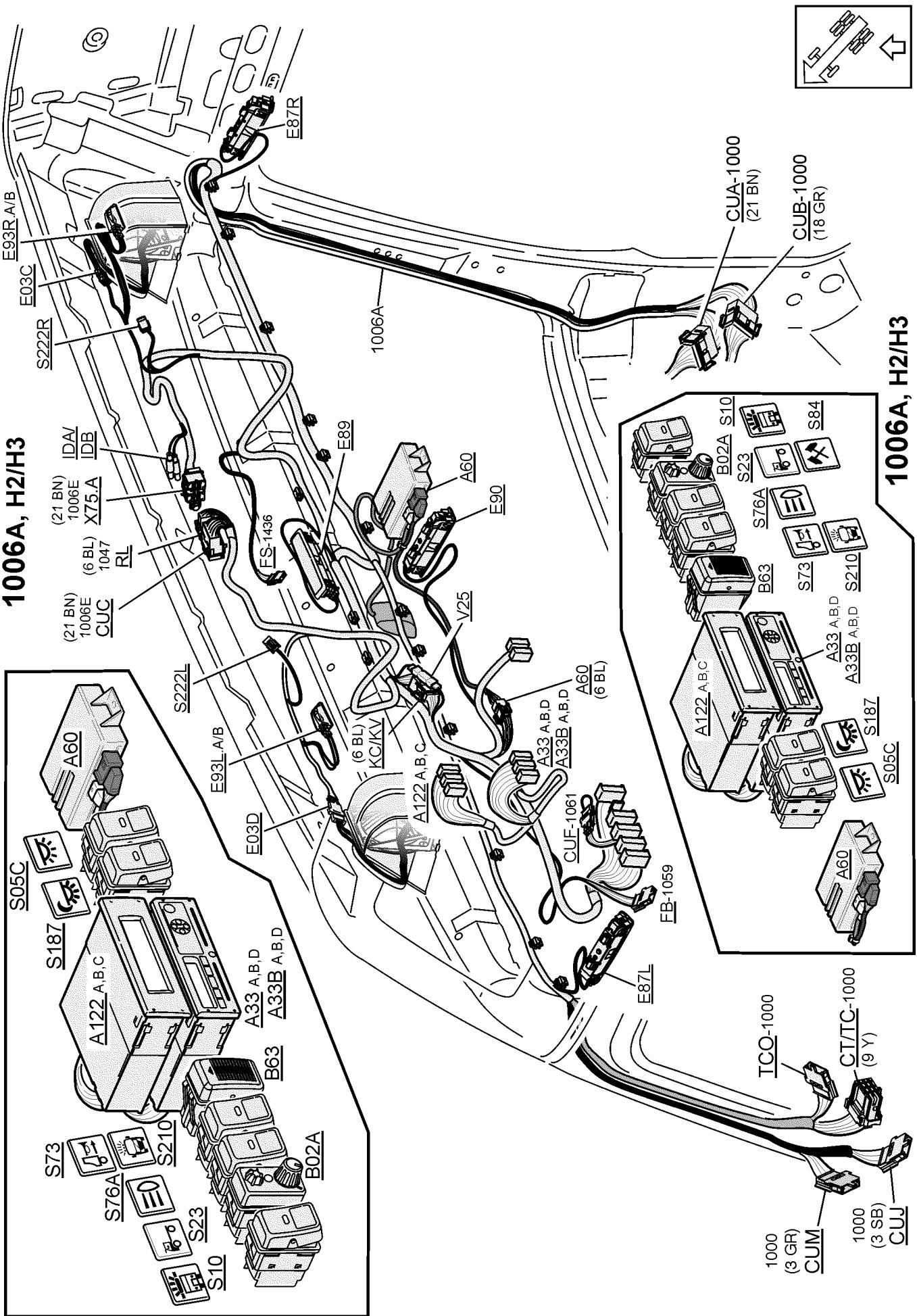


RHD

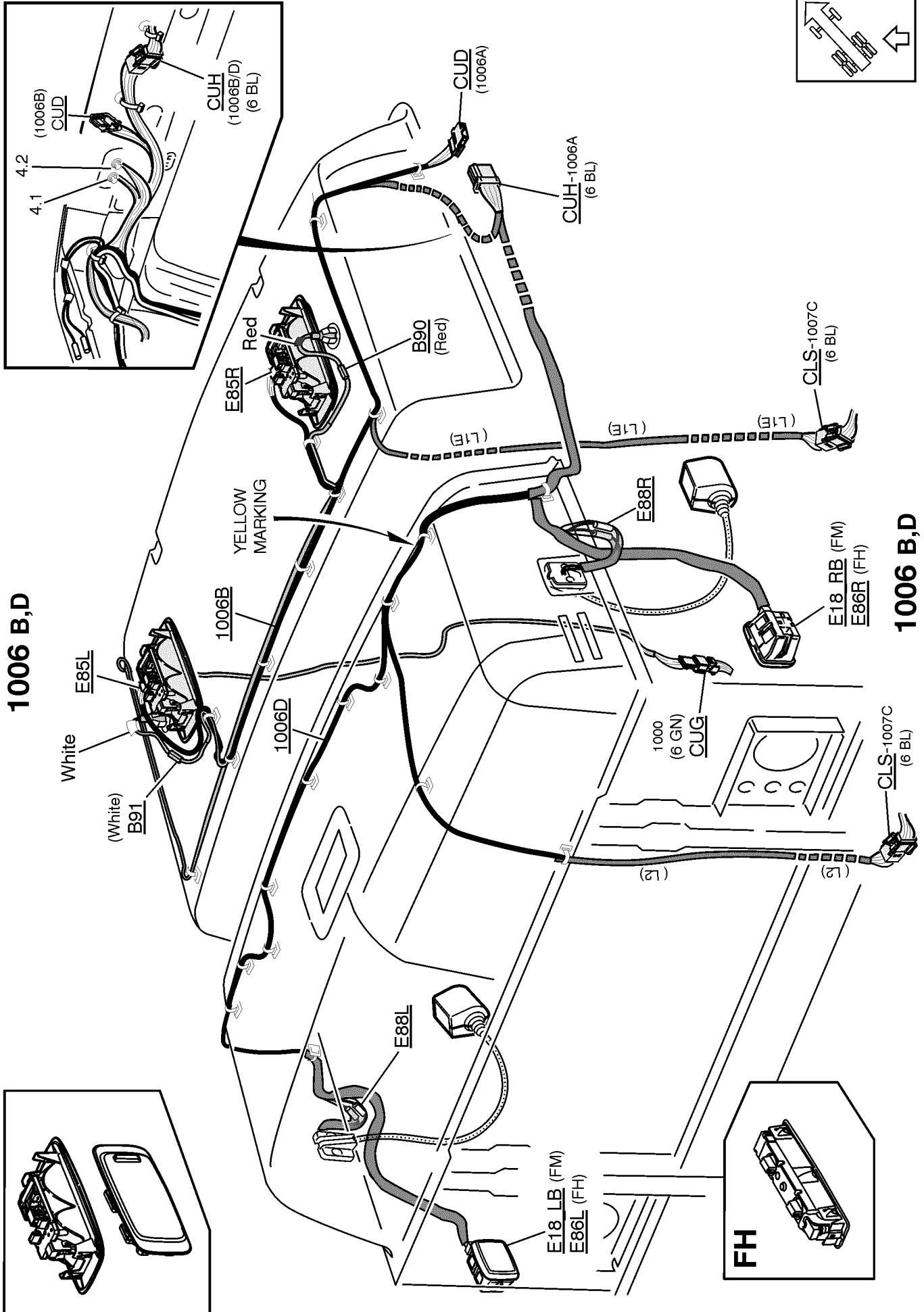
1000
(3 GR)
CUM
CT/TC-1000
(9 Y)
CUJ-1000
(3 SB)

1006A, H1

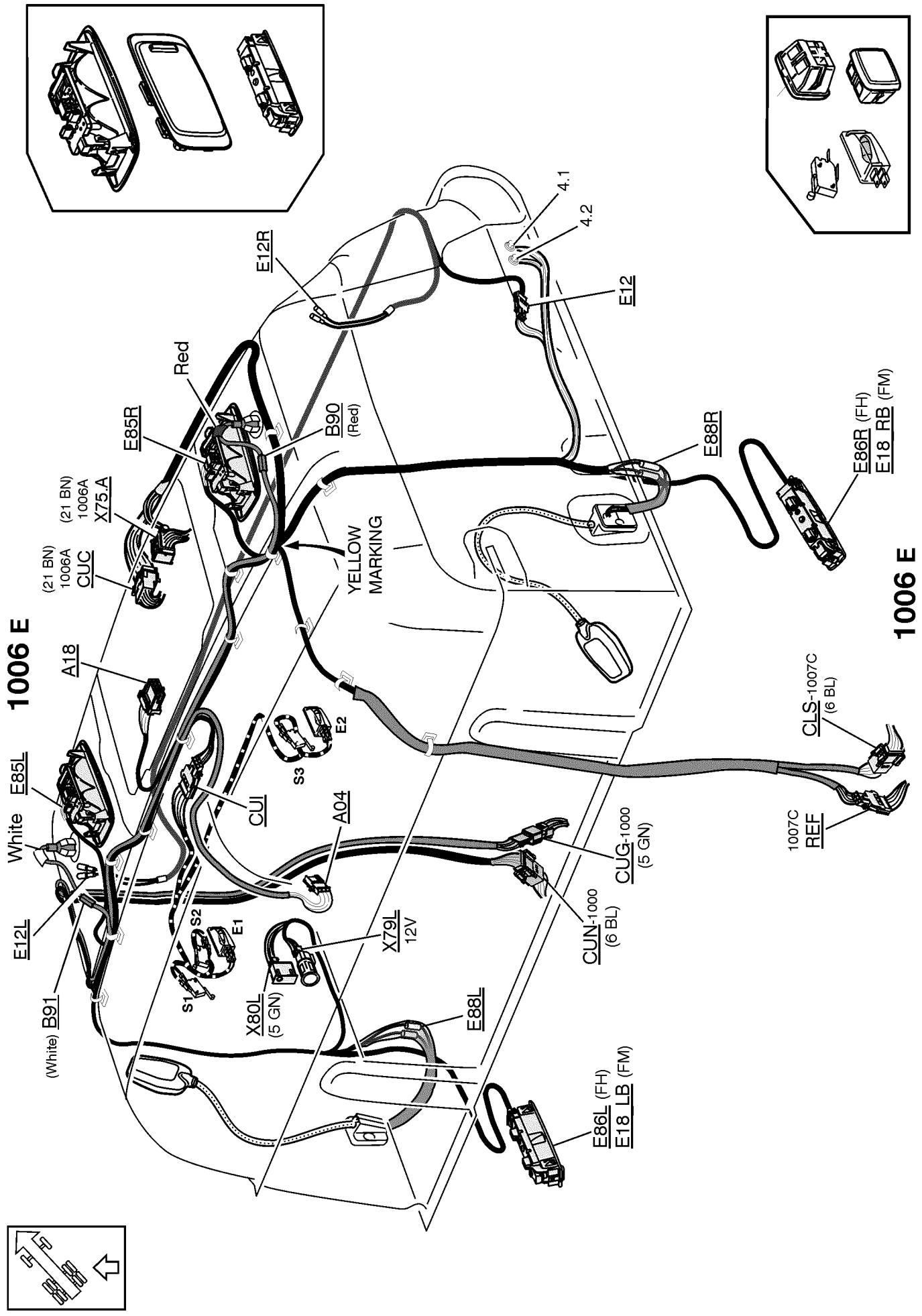
1006A, H2/H3

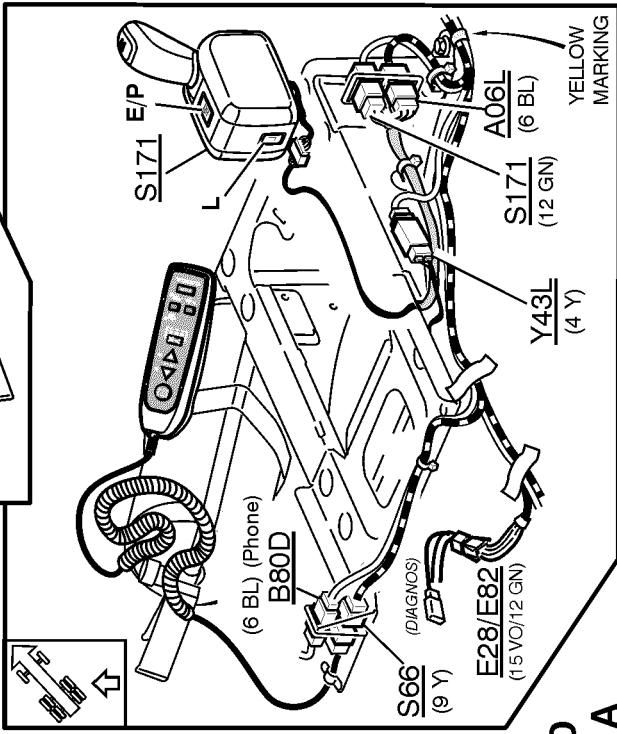
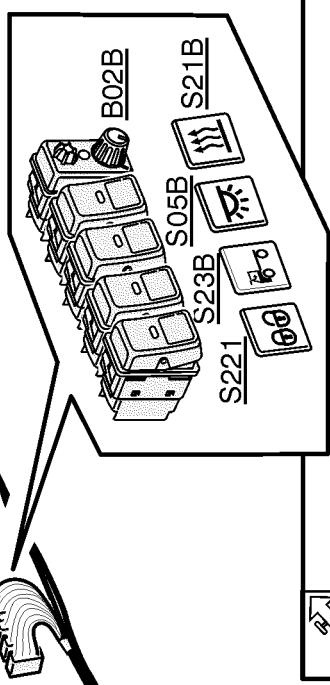
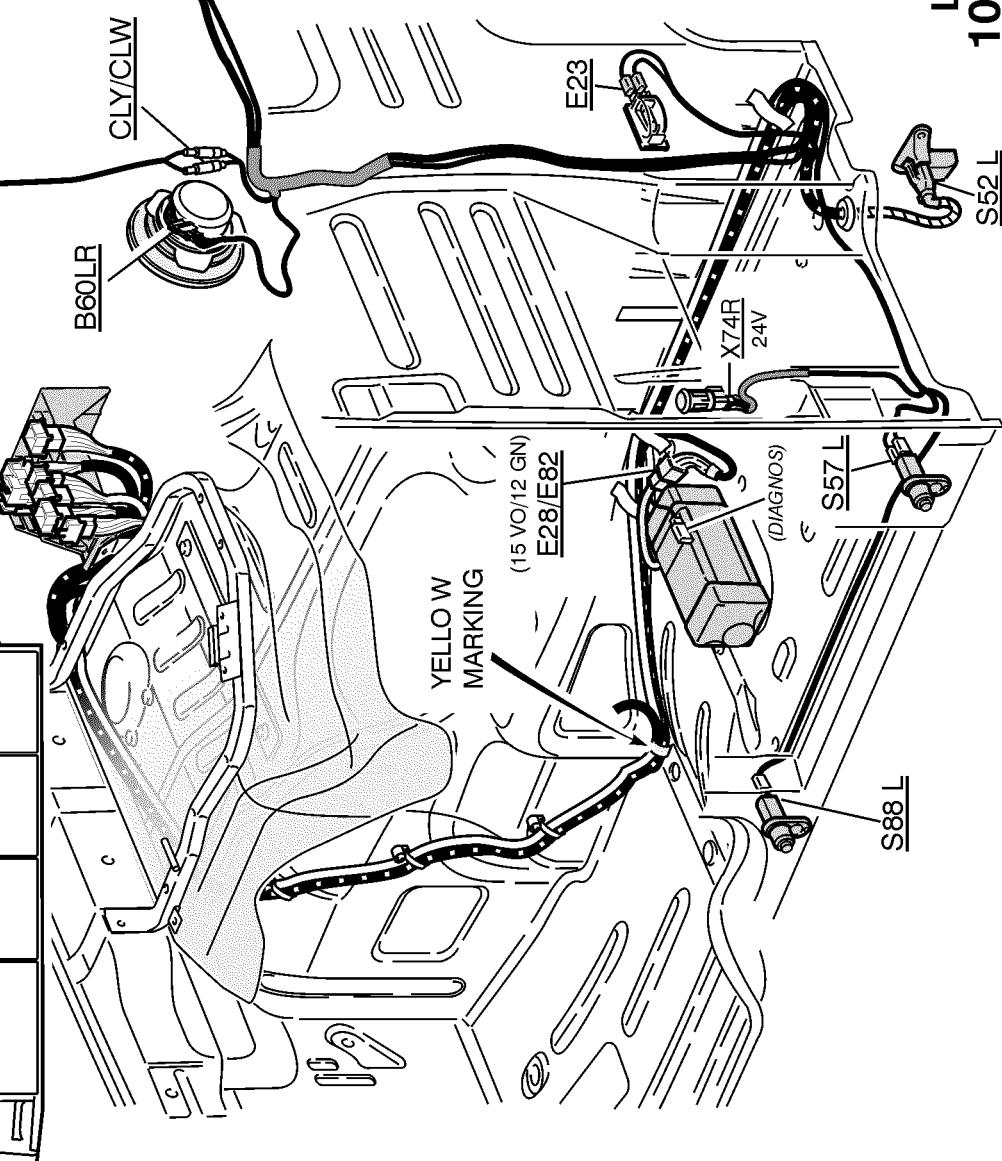
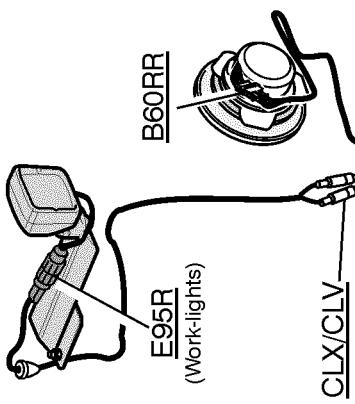
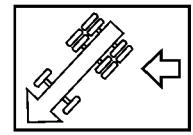


T3059941



T3021569

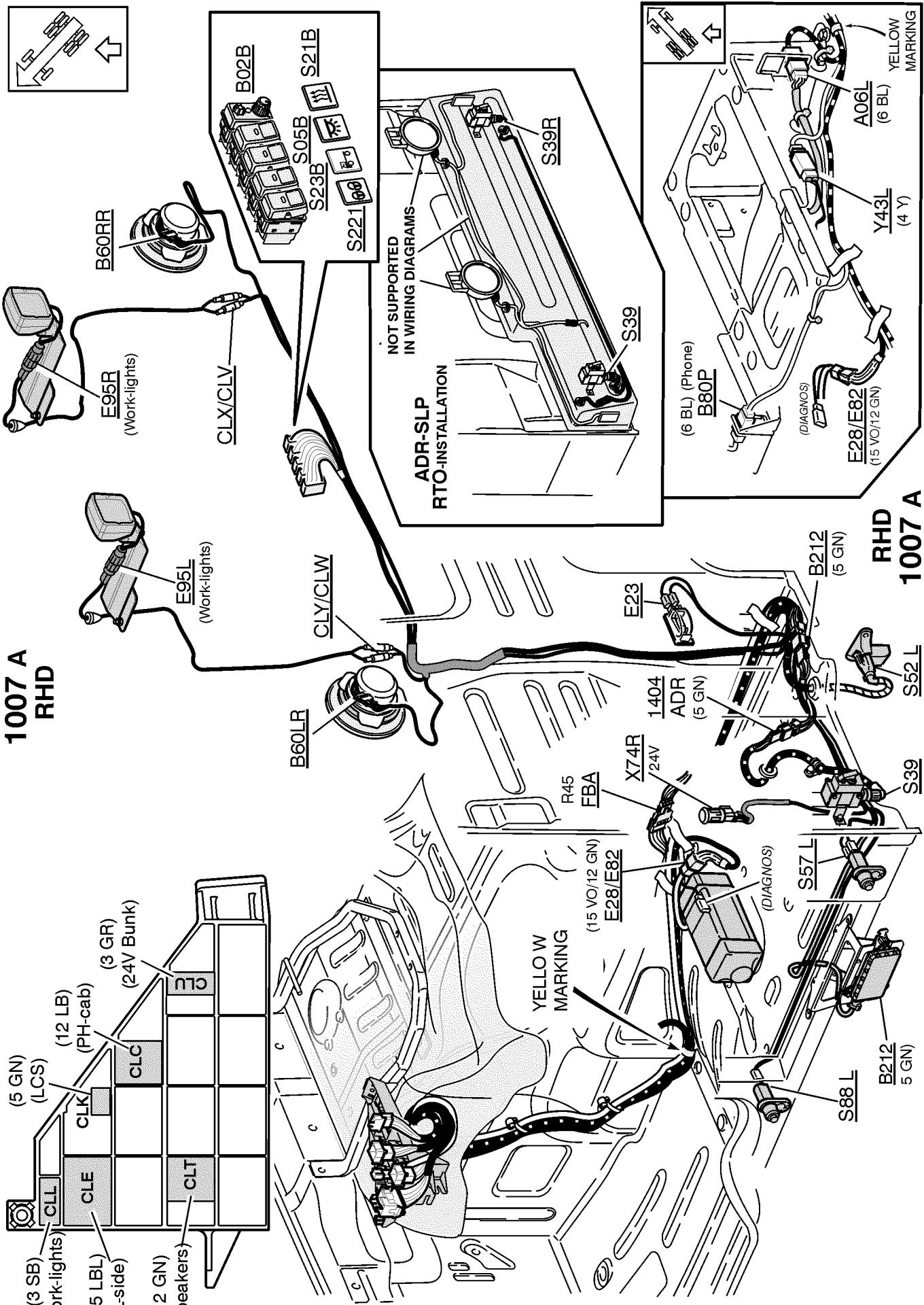
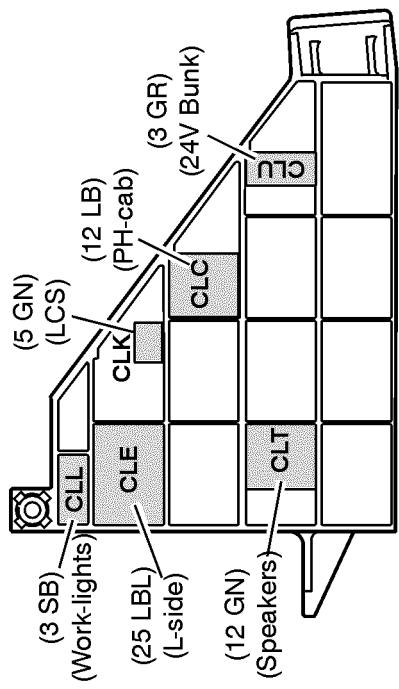




**1007 A
LHD**

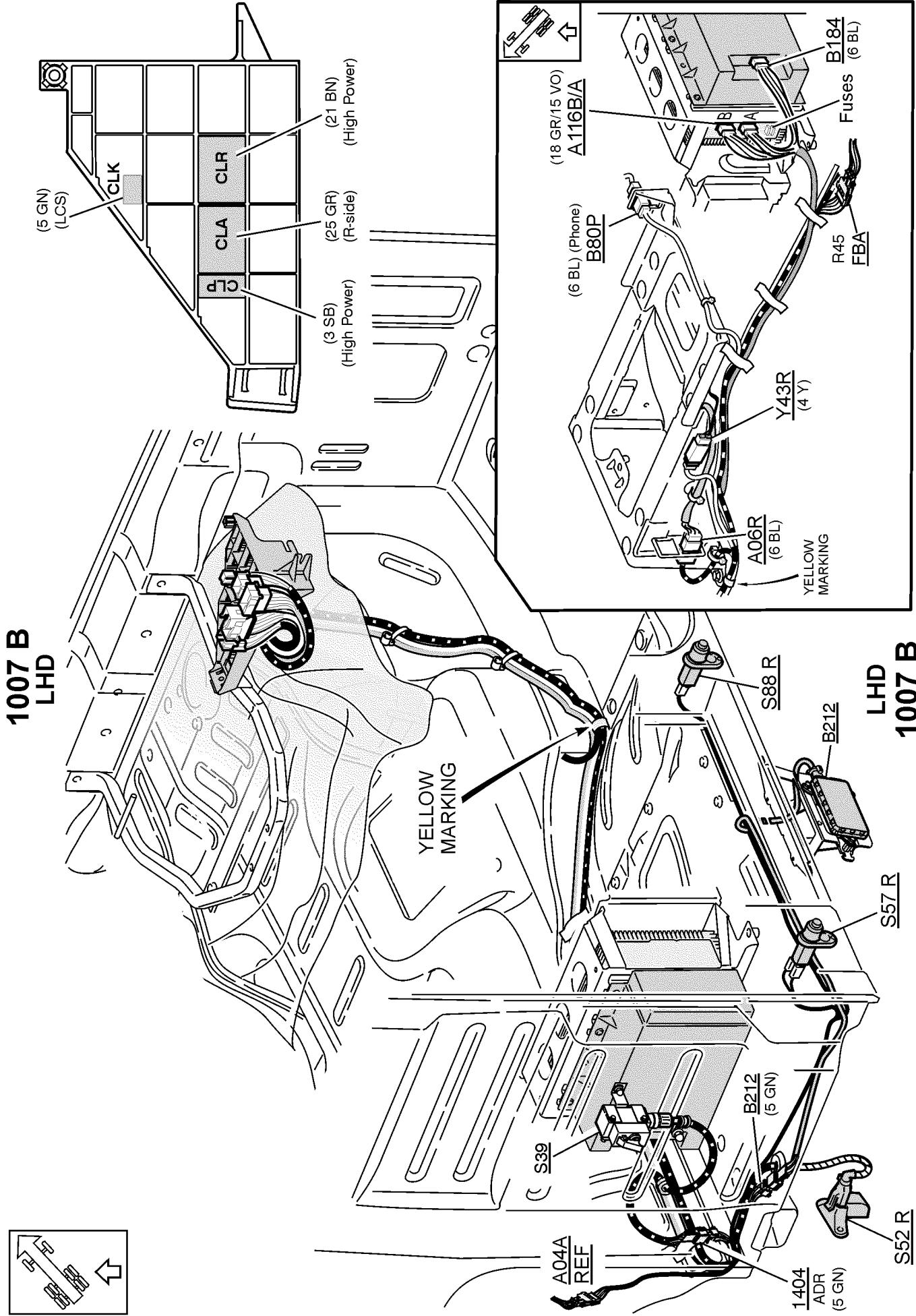
**LHD
1007 A**

1007 A RHD



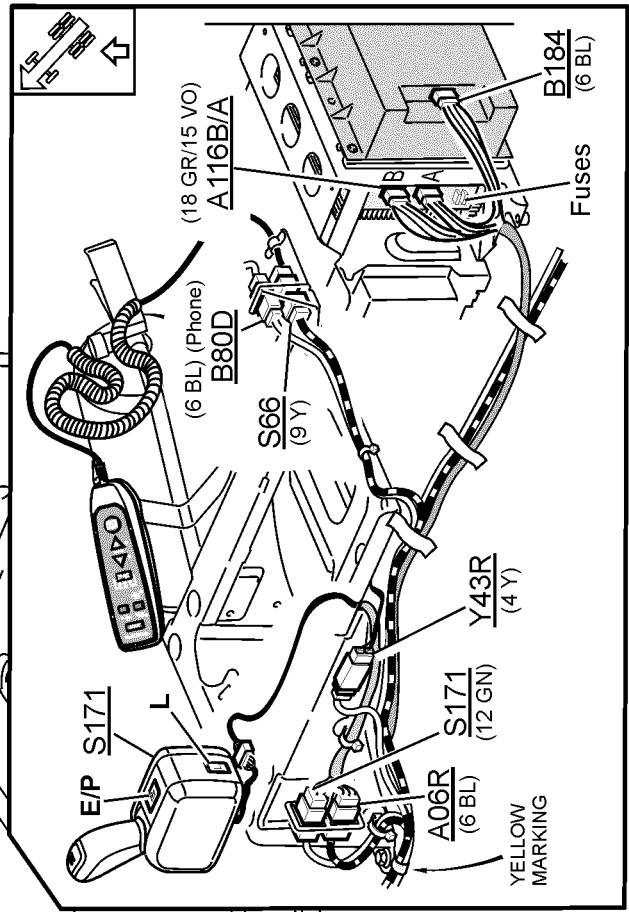
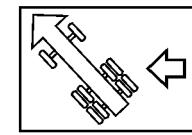
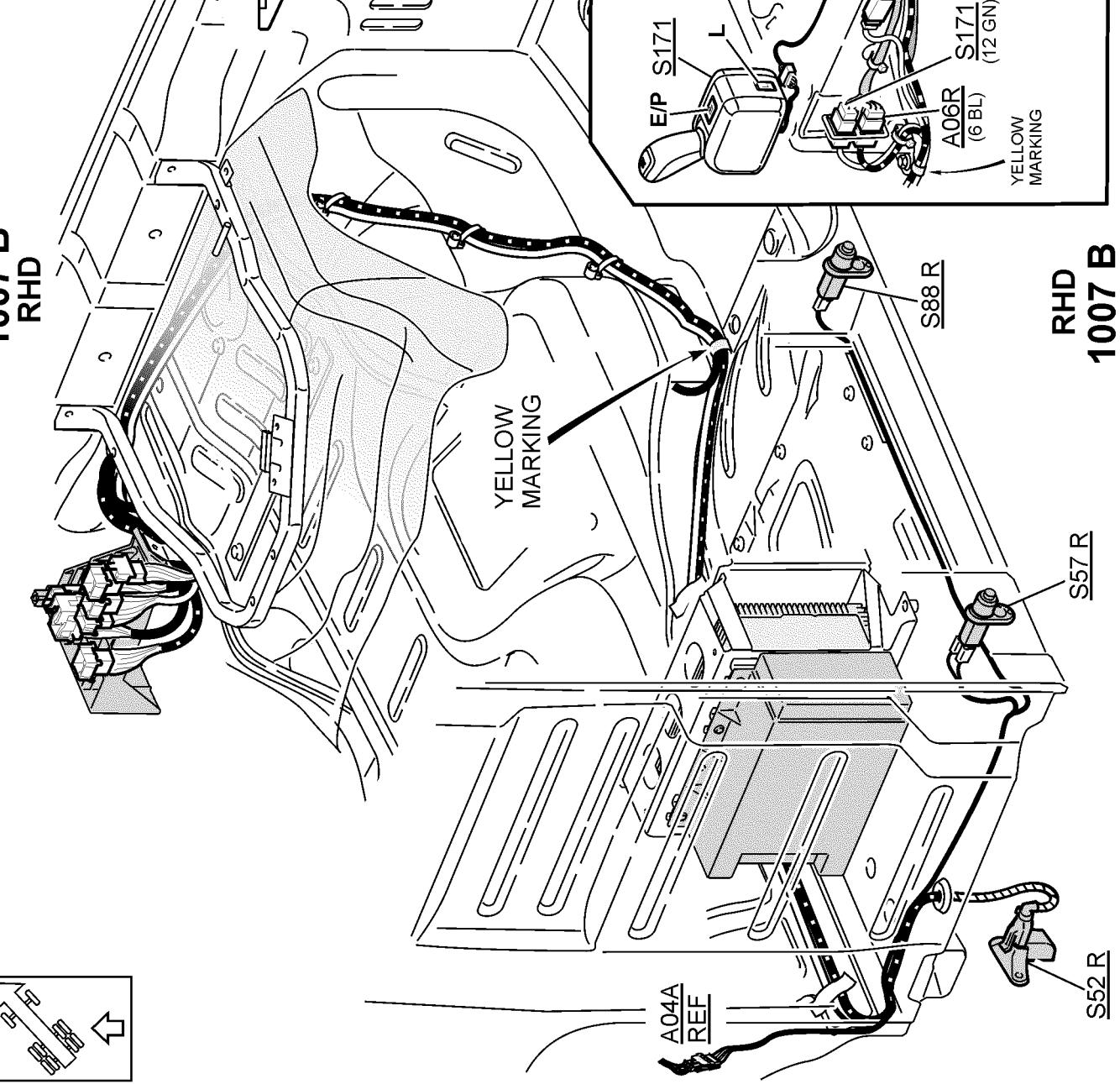
T3057080

1007 B
LHD

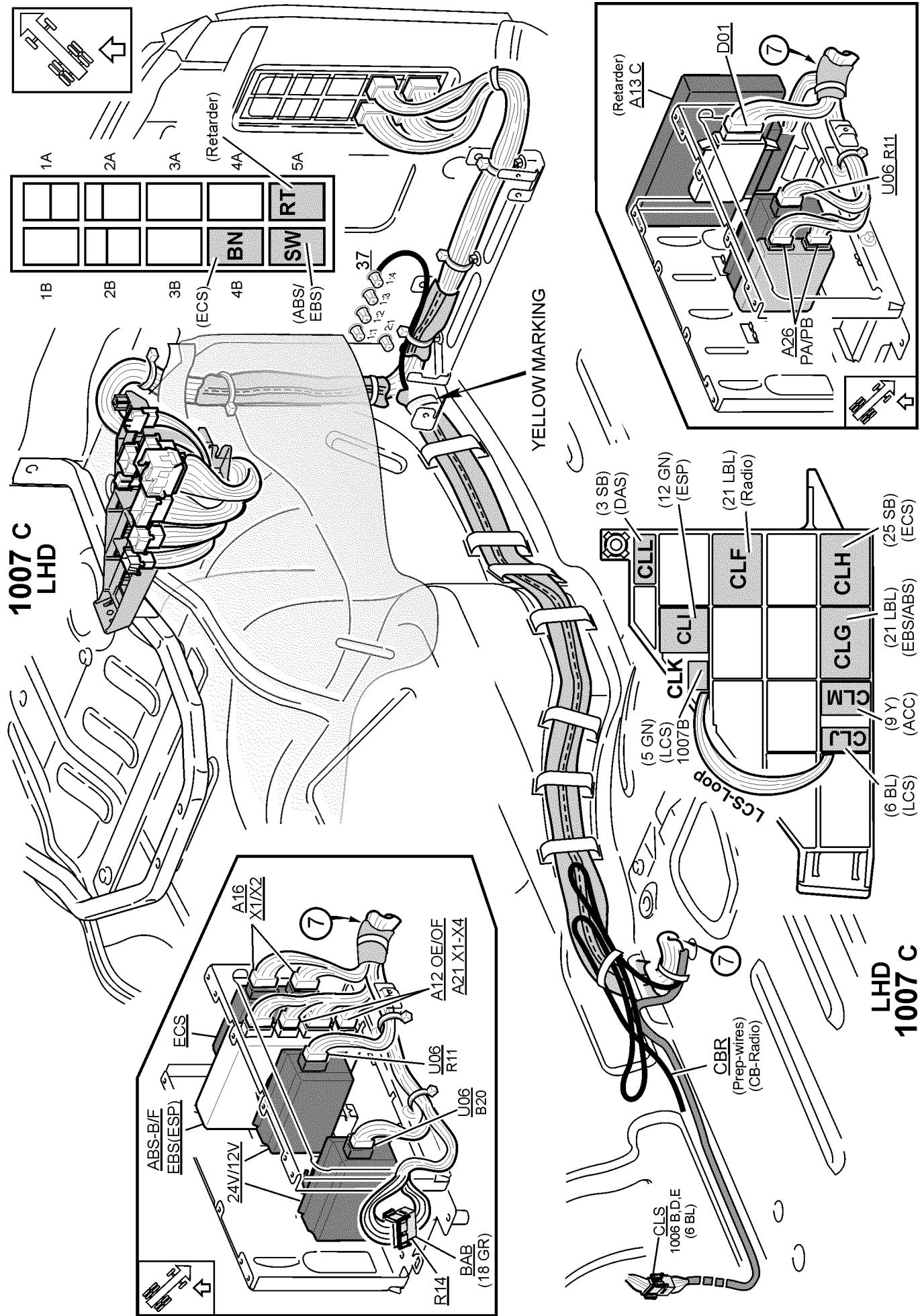


T3060692

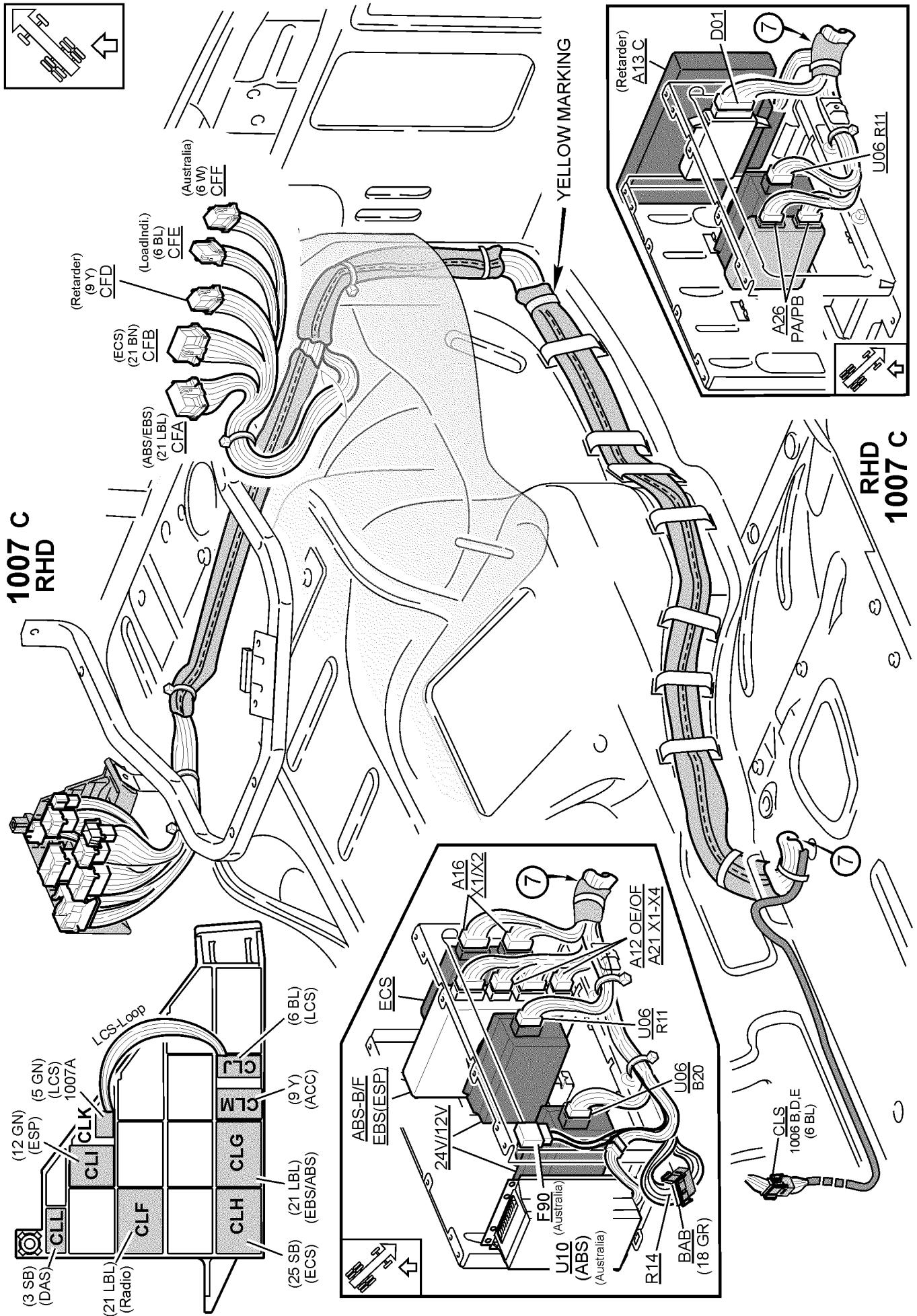
1007 B
RHD

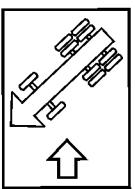


T3057743

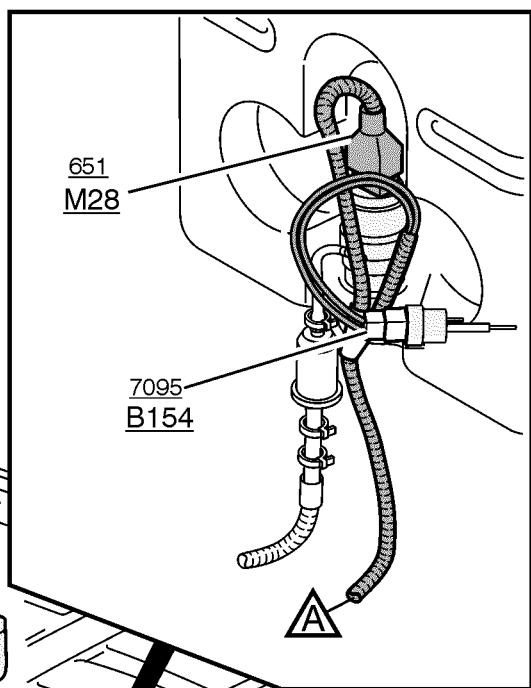
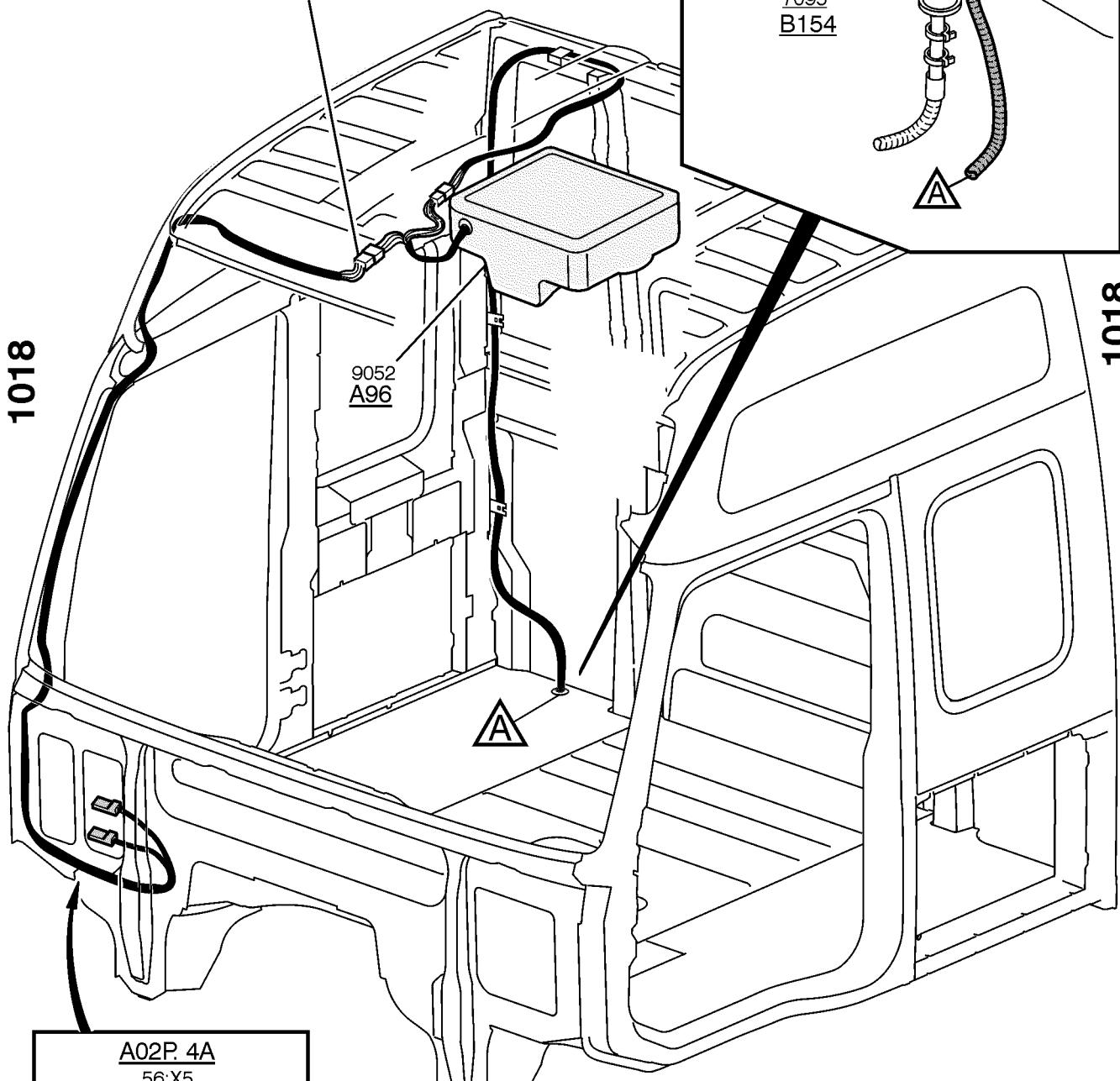


T3068226



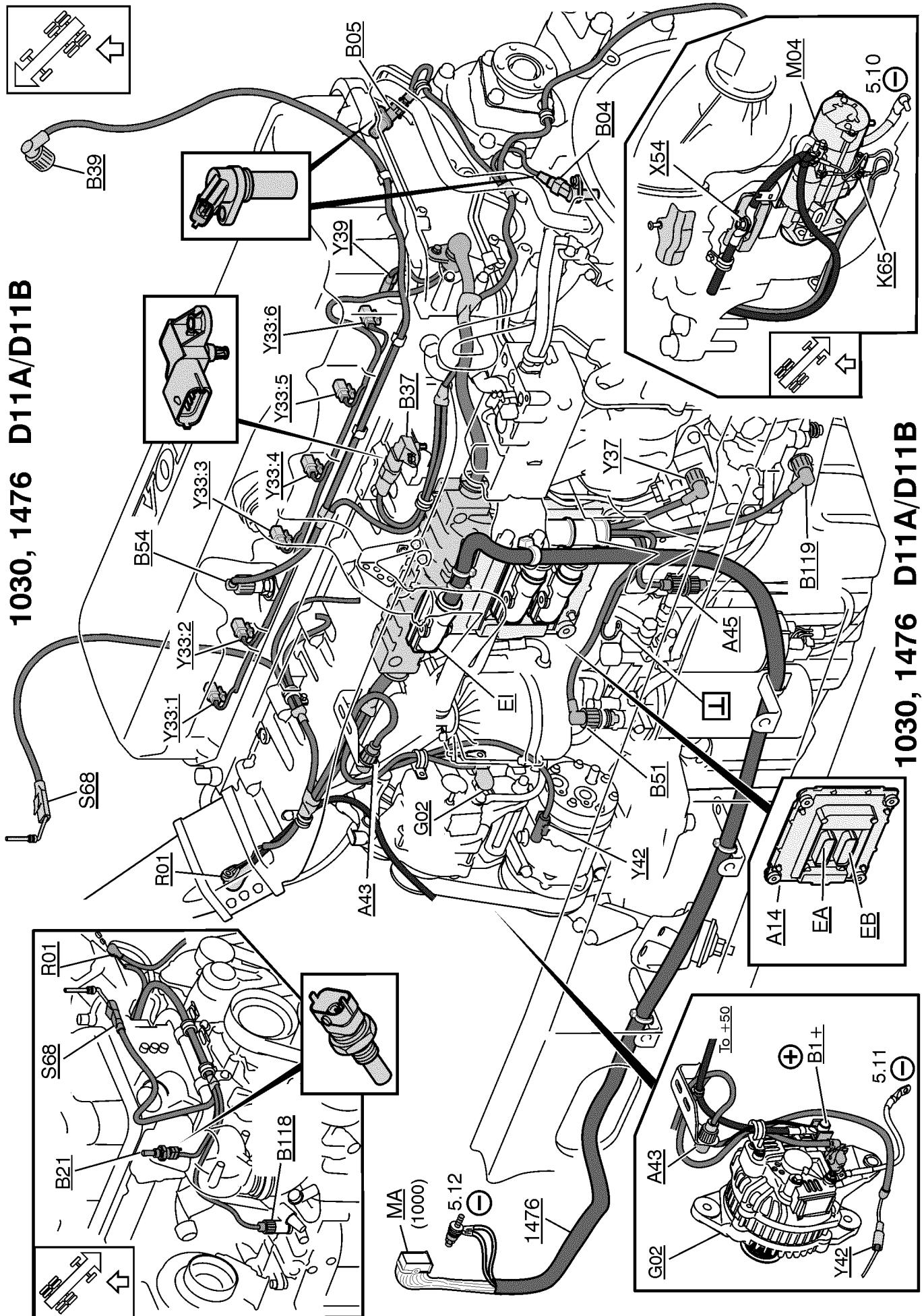


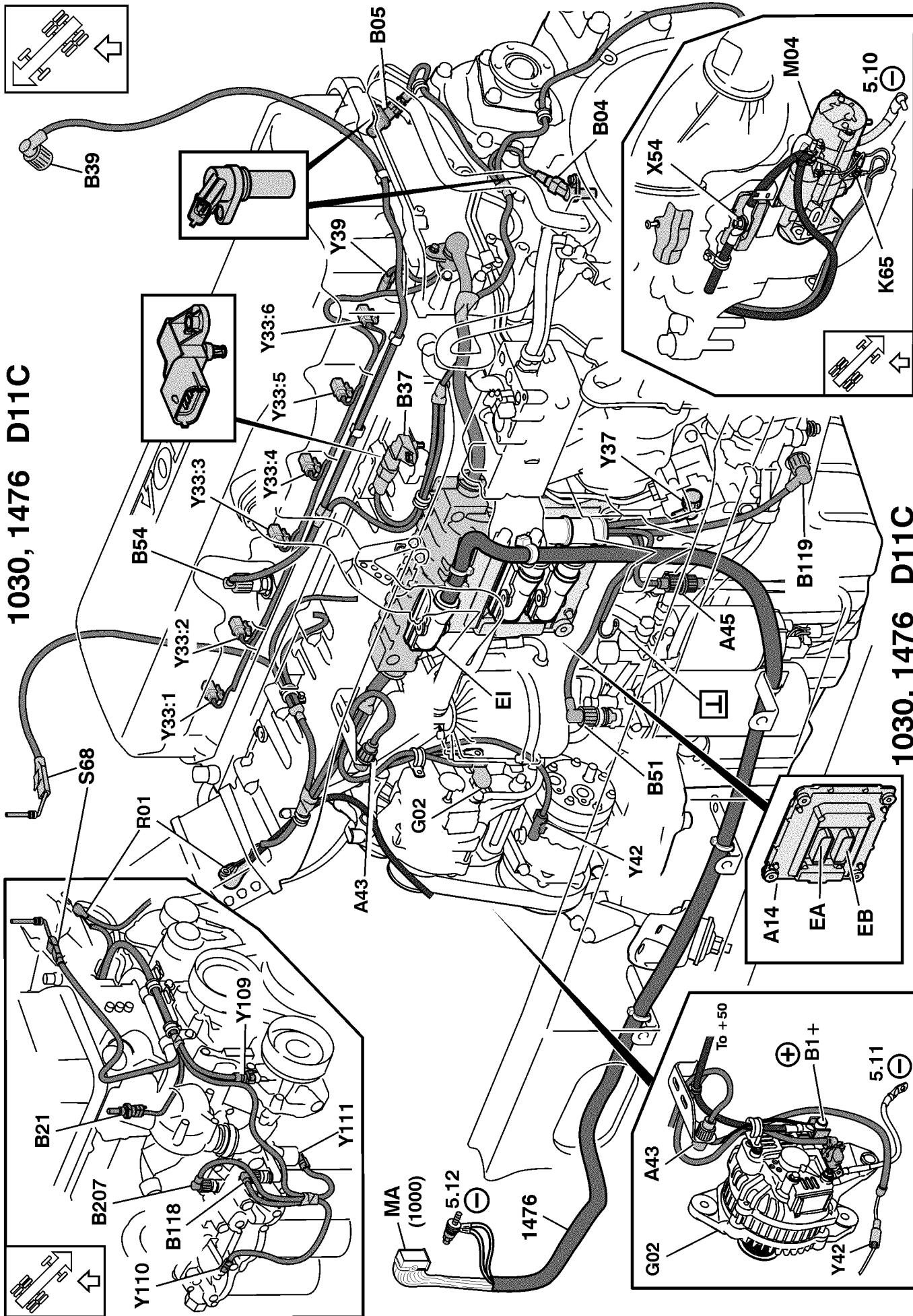
1018



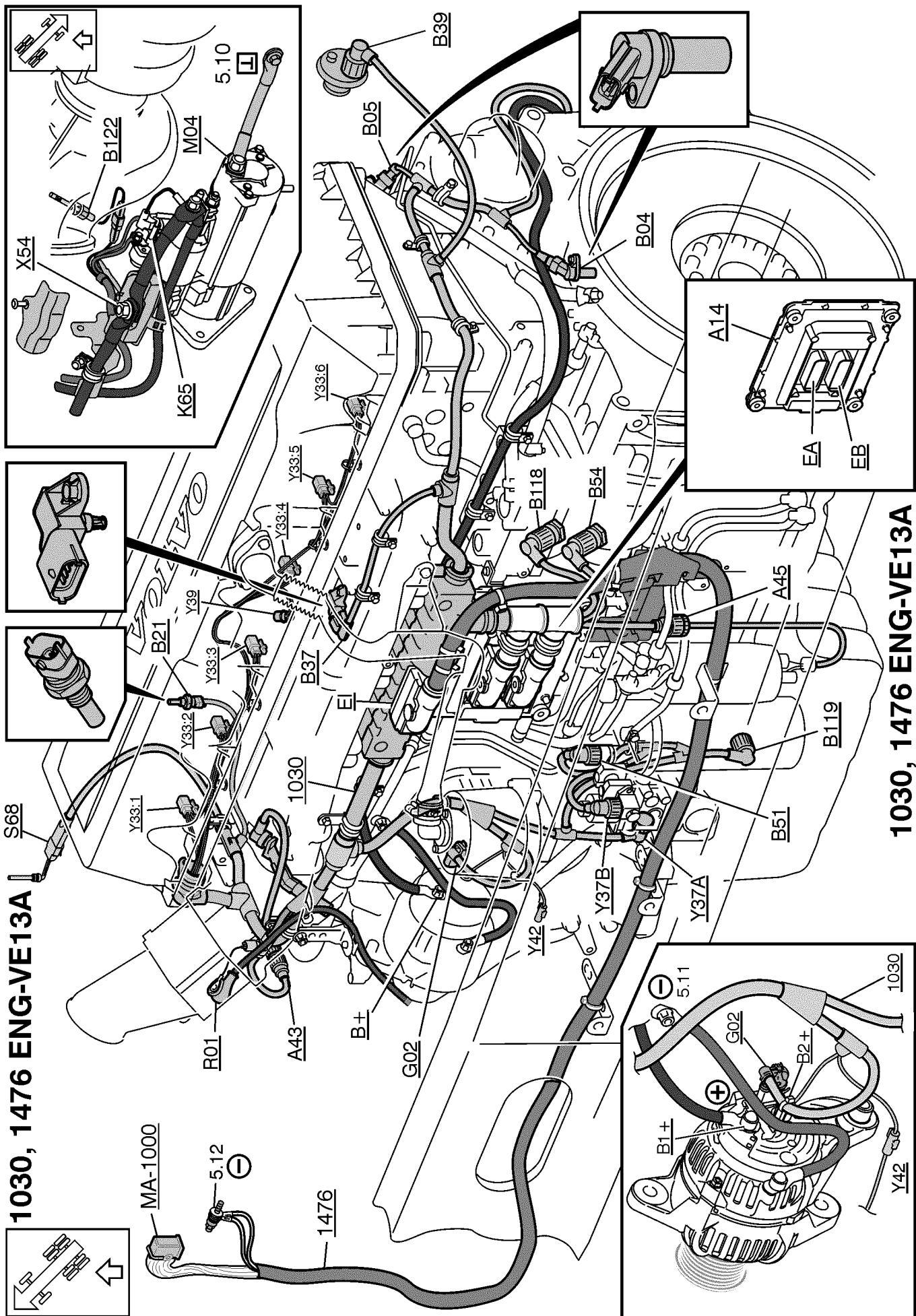
1018

1030, 1476 D11A/D11B

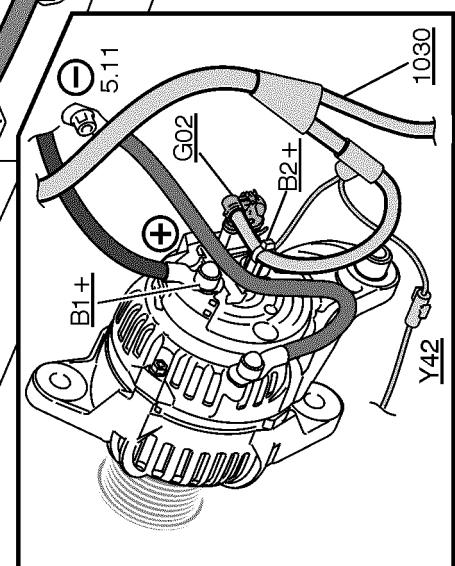
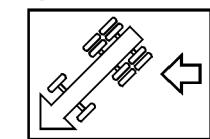
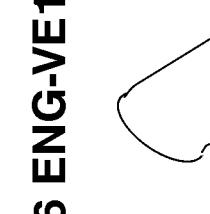
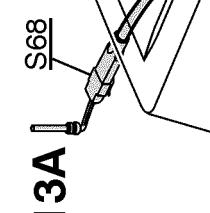
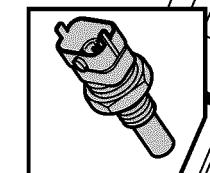
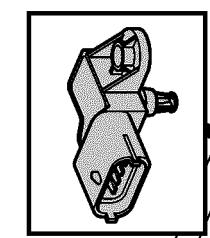
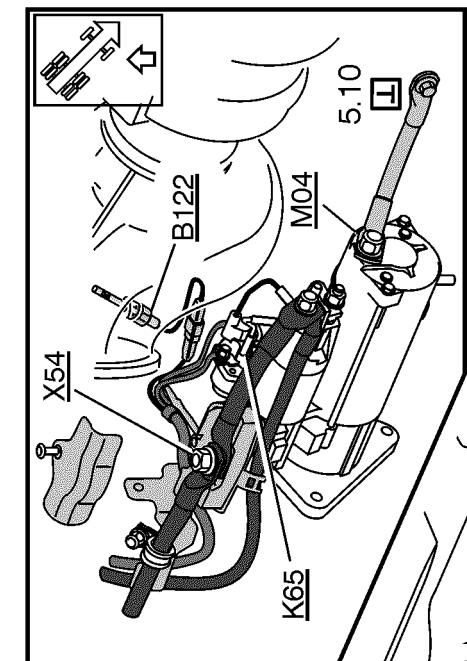
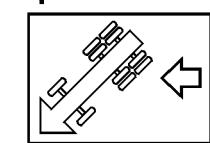




T3068221



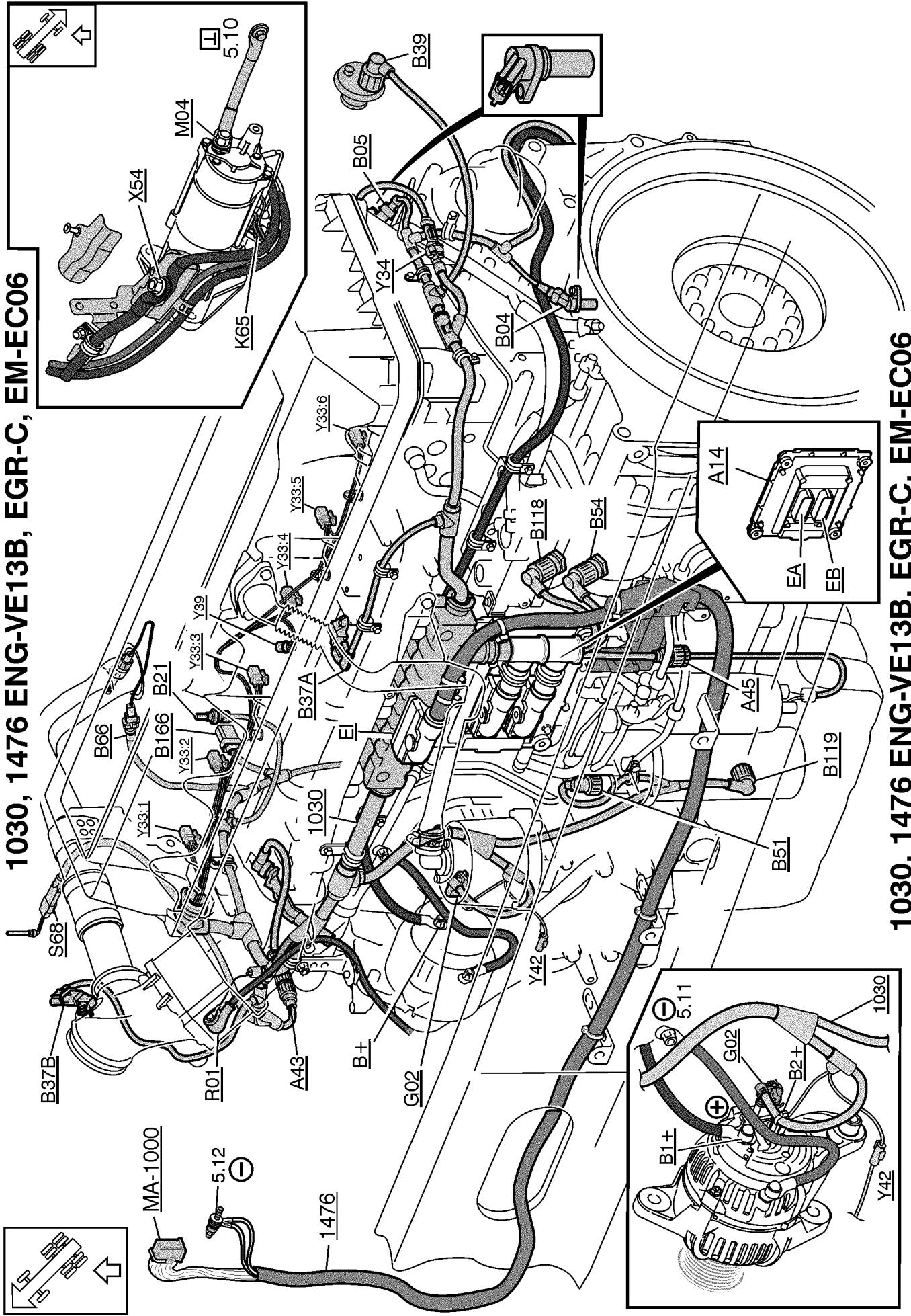
1030, 1476 ENG-VE13A



1030, 1476 ENG-VE13A

T3029517

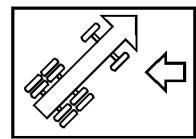
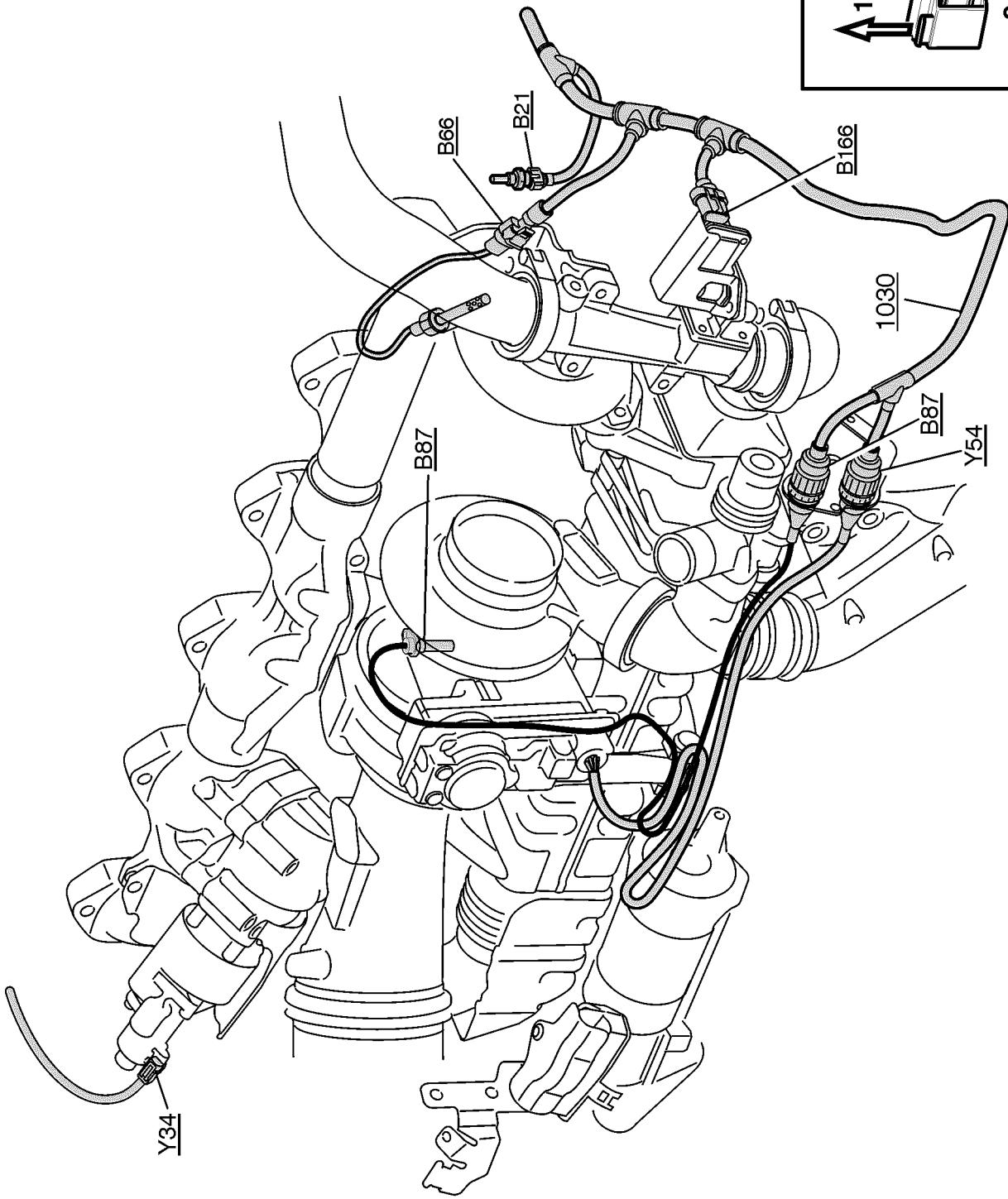
1030, 1476 ENG-VE13B, EGR-C, EM-EC06



1030, 1476 ENG-VE13B, EGR-C, EM-EC06

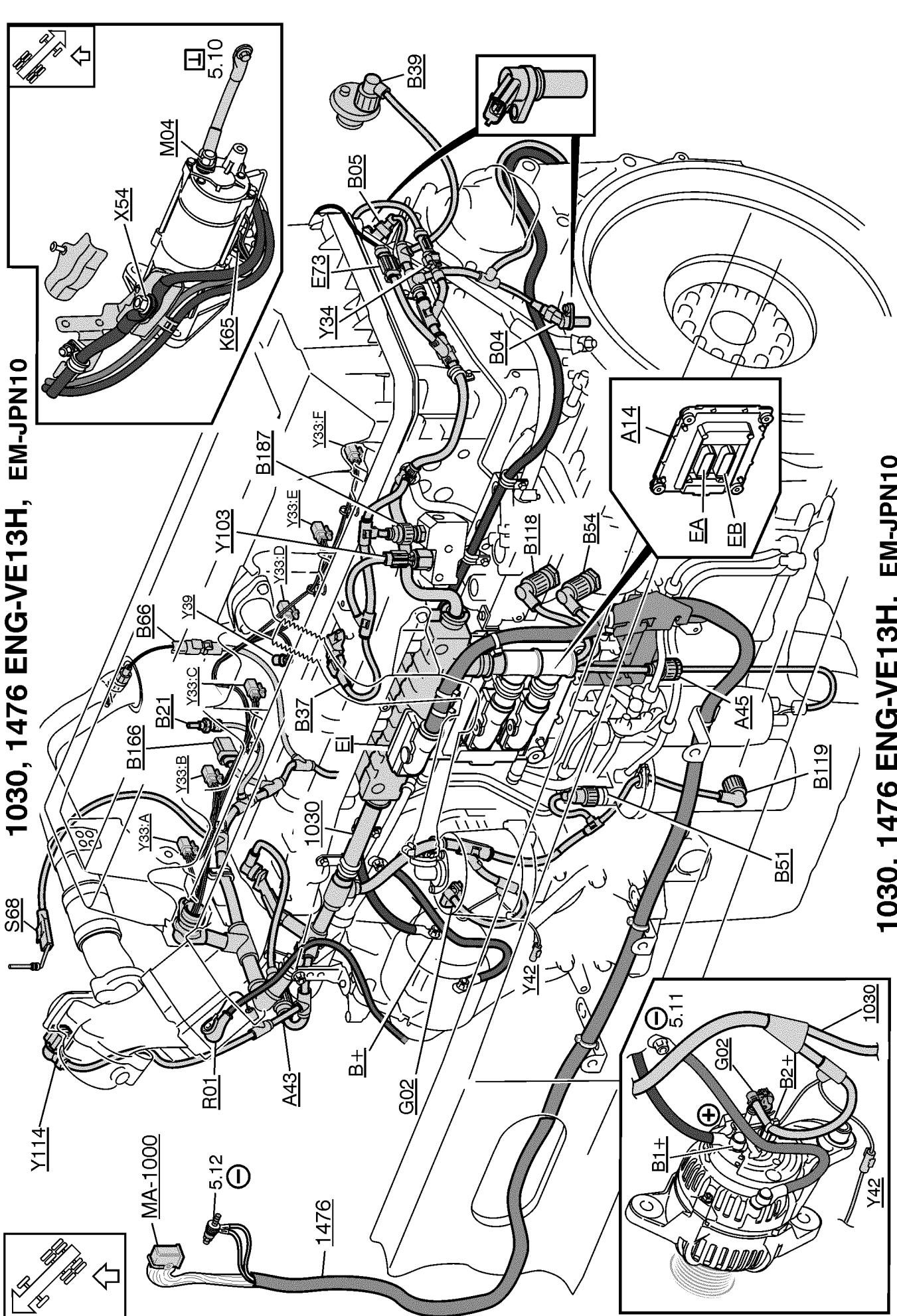
T3029518

1030 ENG-VE13B, EGR-C, EM-EC06



1030 ENG-VE13B, EGR-C, EM-EC06

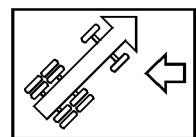
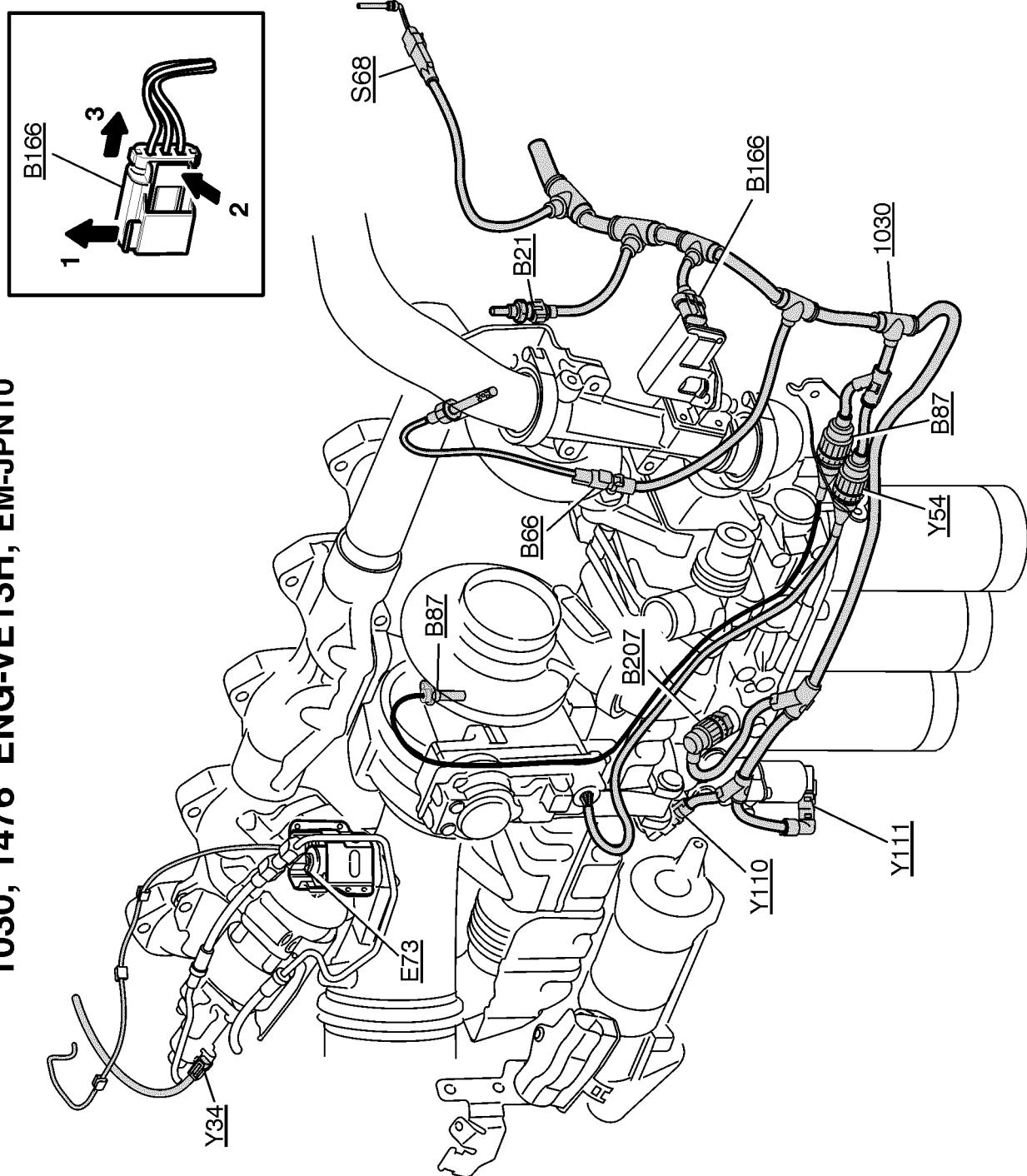
T3020564



1030, 1476 ENG-VE13H, EM-JPN10

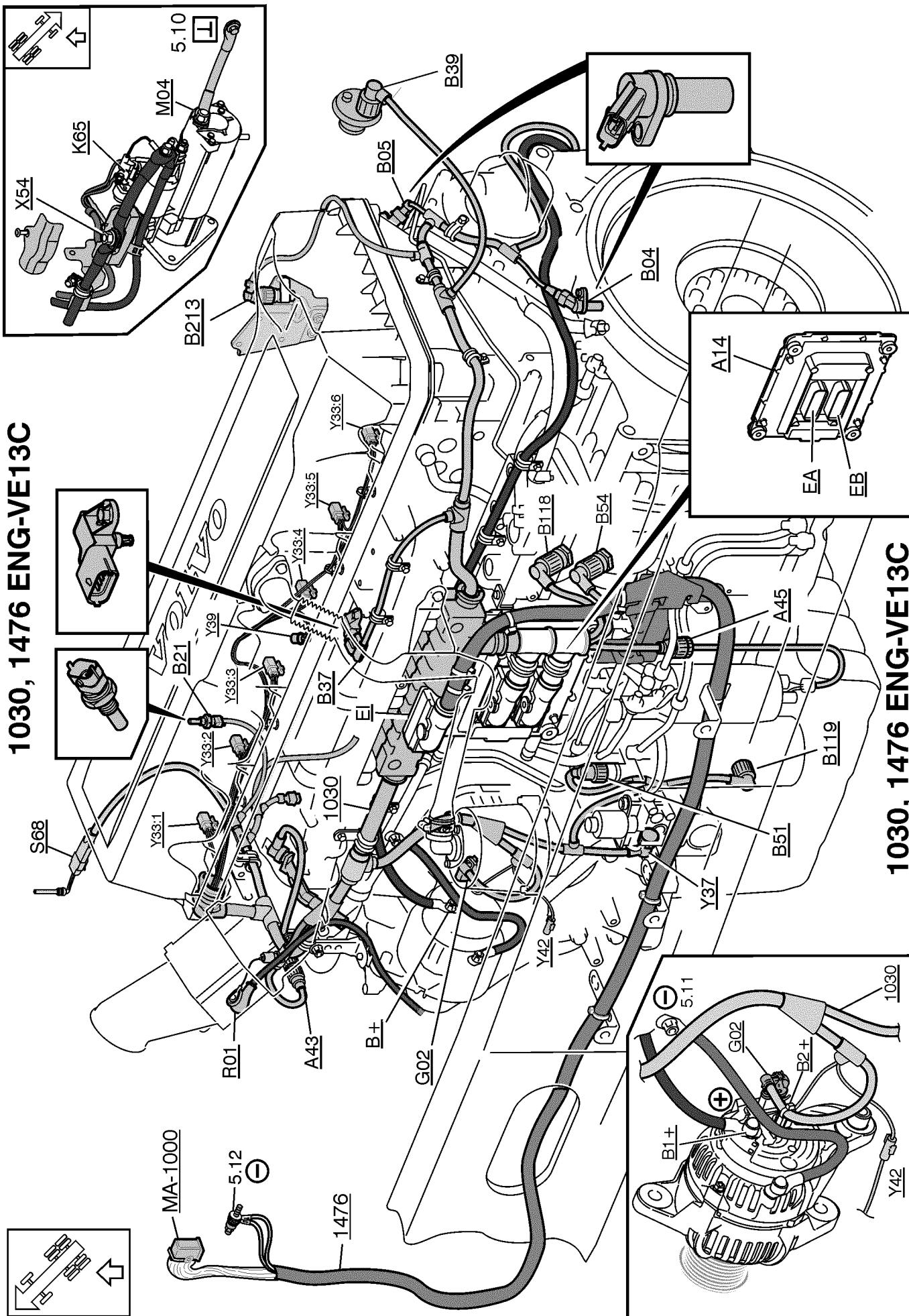
T3056932

1030, 1476 ENG-VE13H, EM-JPN10



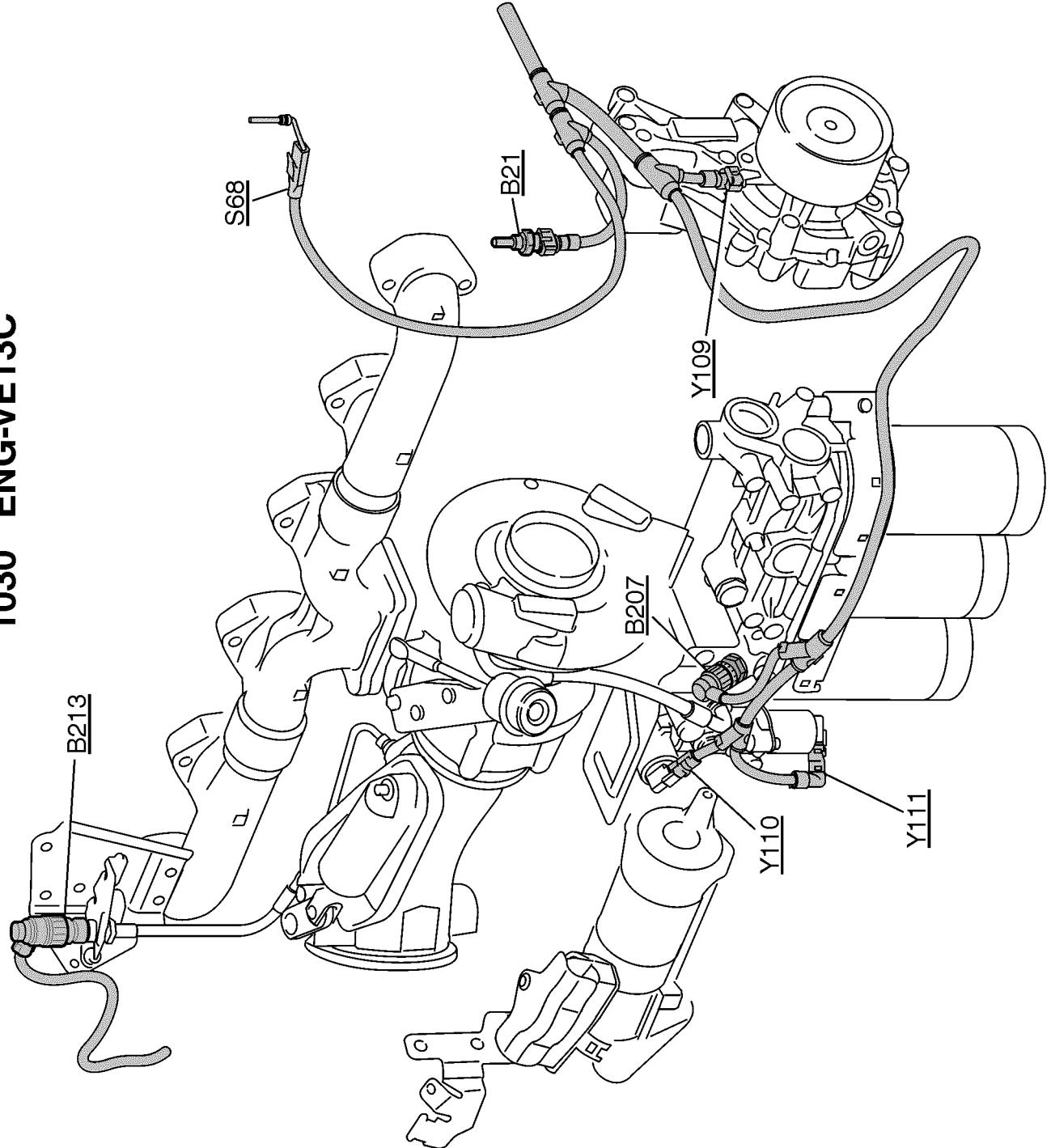
1030, 1476 ENG-VE13H, EM-JPN10

T3056933

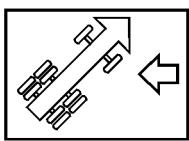


T3029520

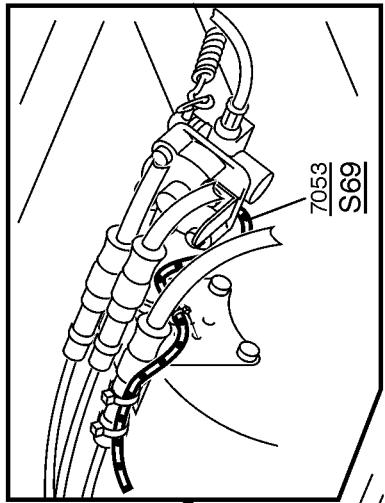
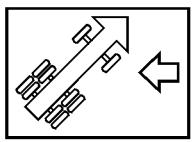
1030 ENG-VE13C



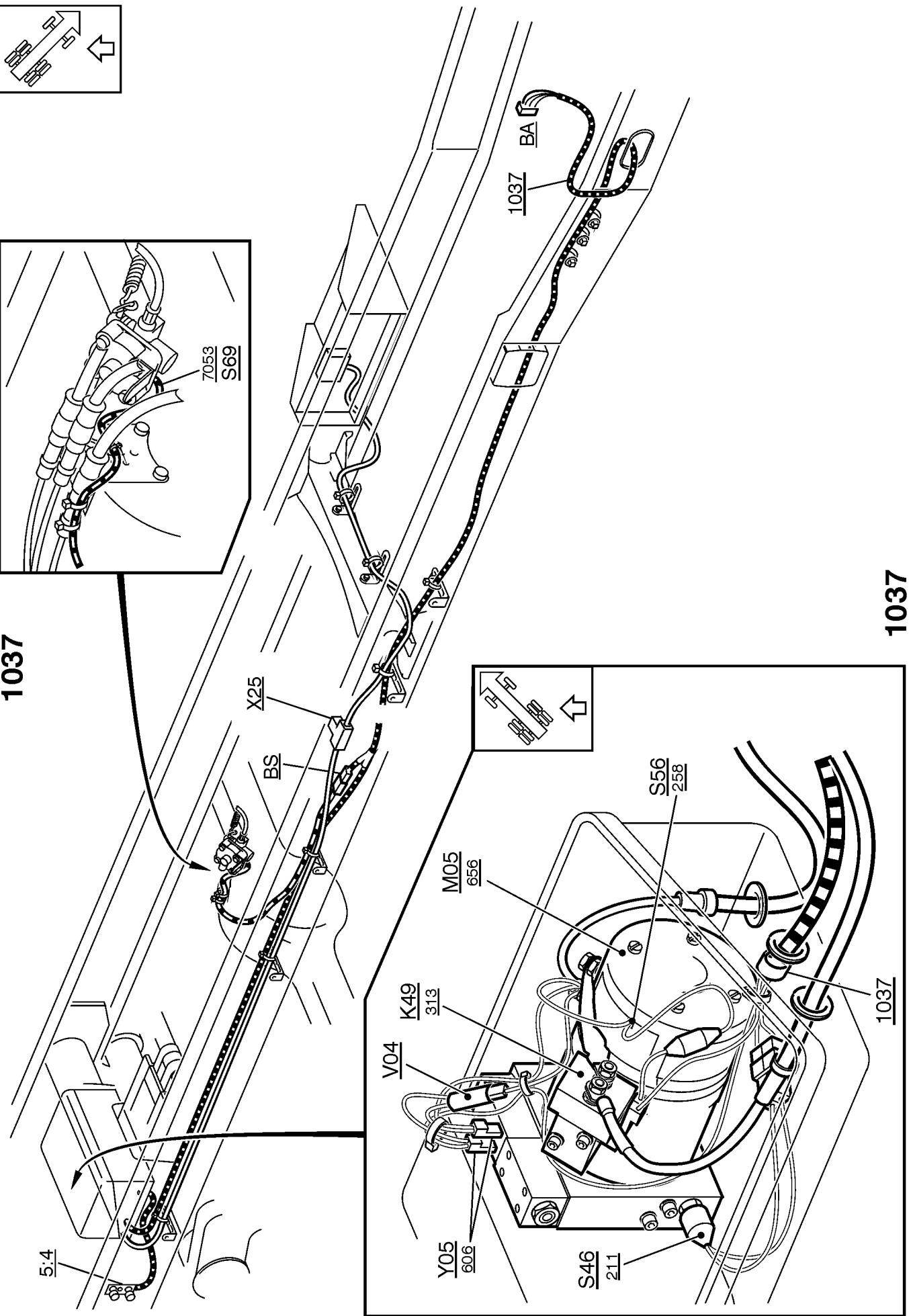
1030 ENG-VE13C



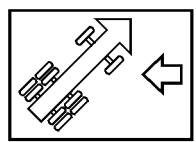
T3029521



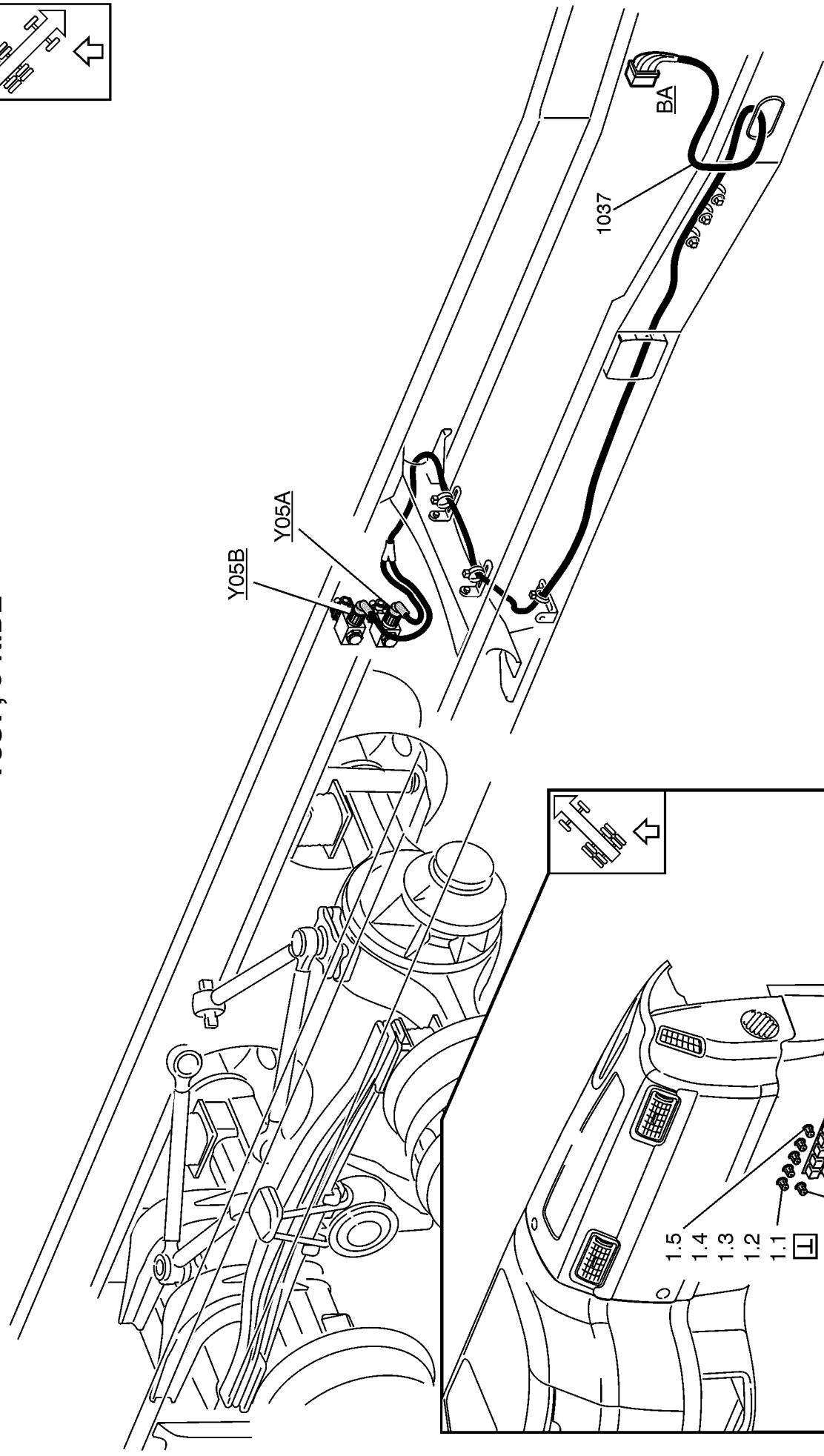
1037



T3016415



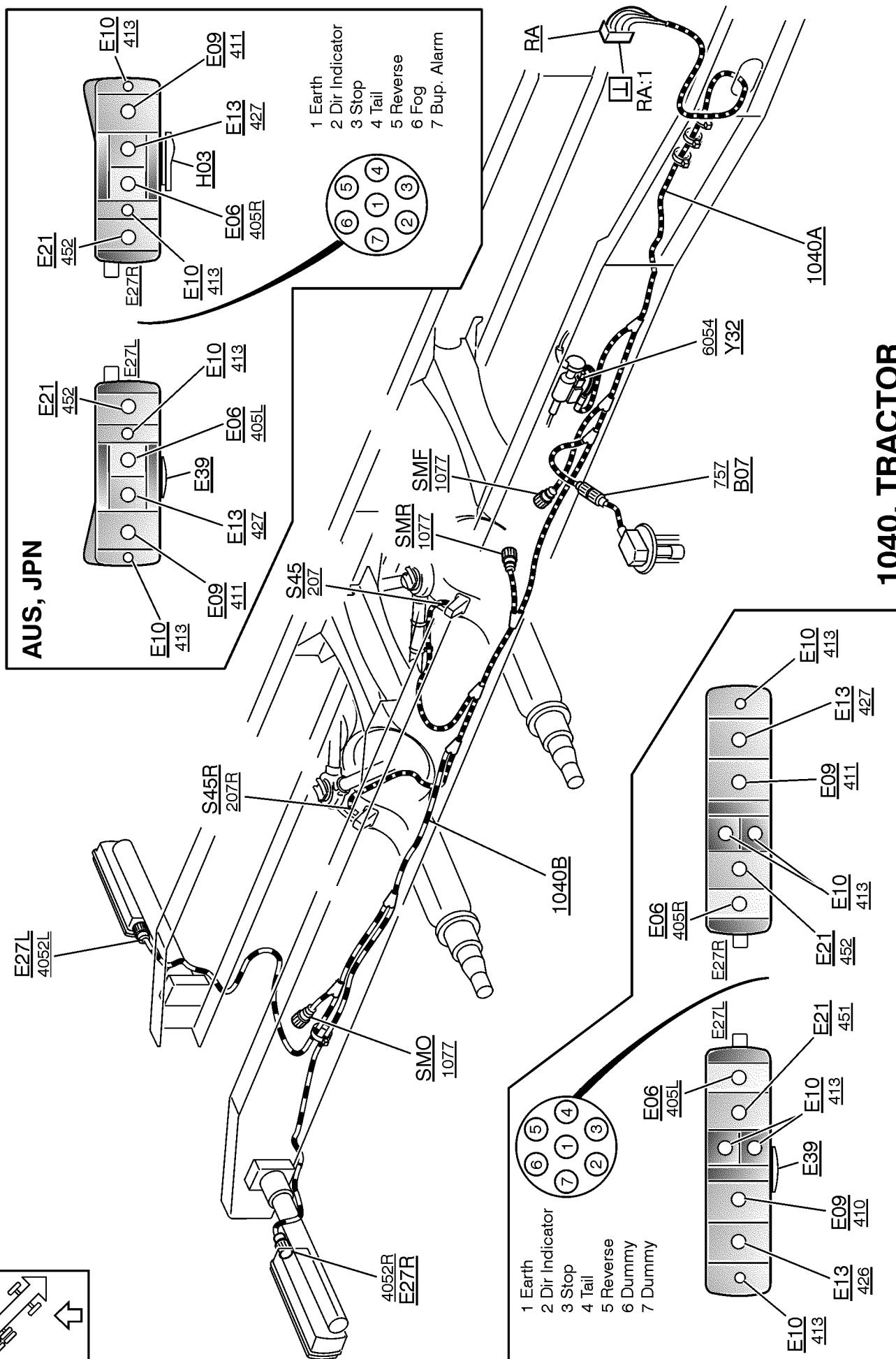
1037, J-RIDE



1037, J-RIDE

T3021578

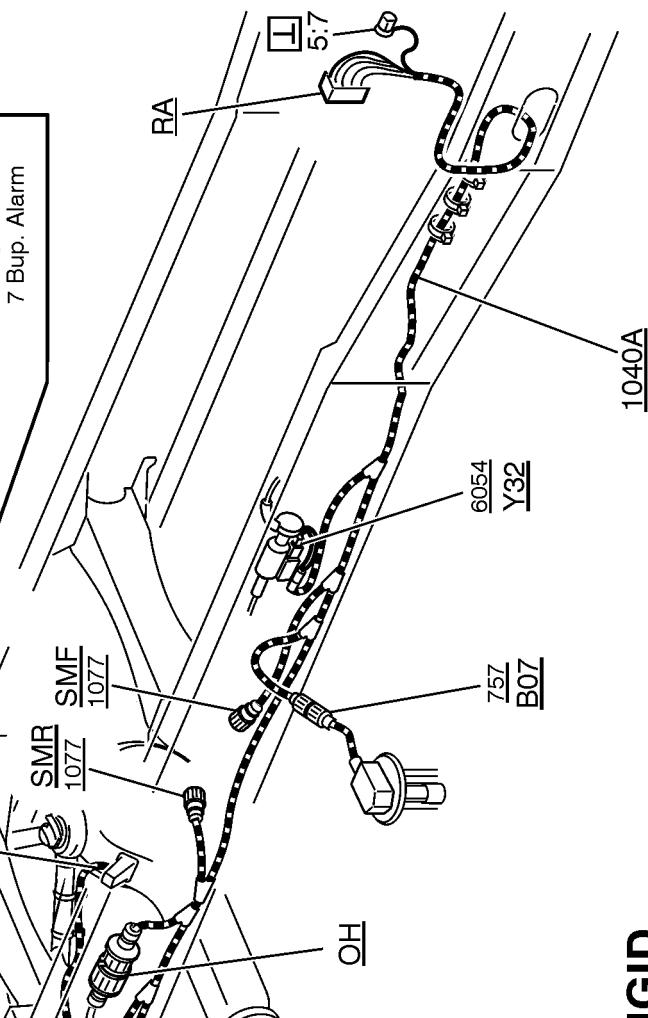
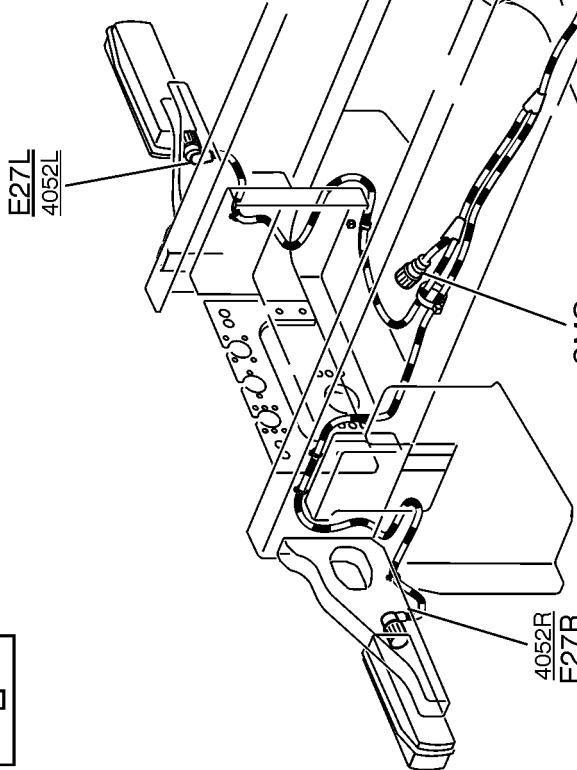
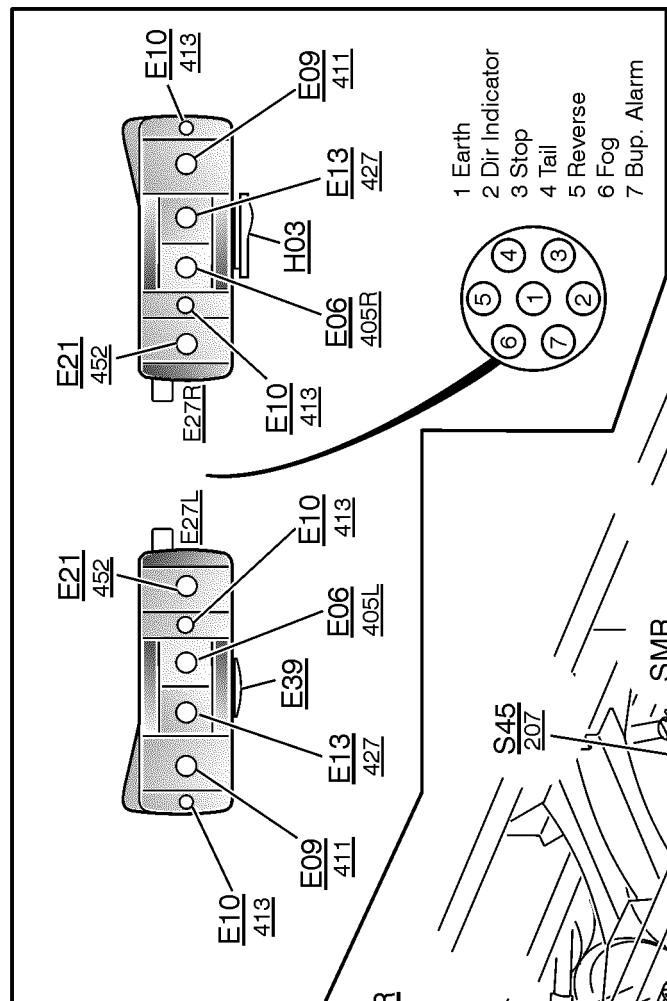
1040, TRACTOR



1040, TRACTOR

T3017727

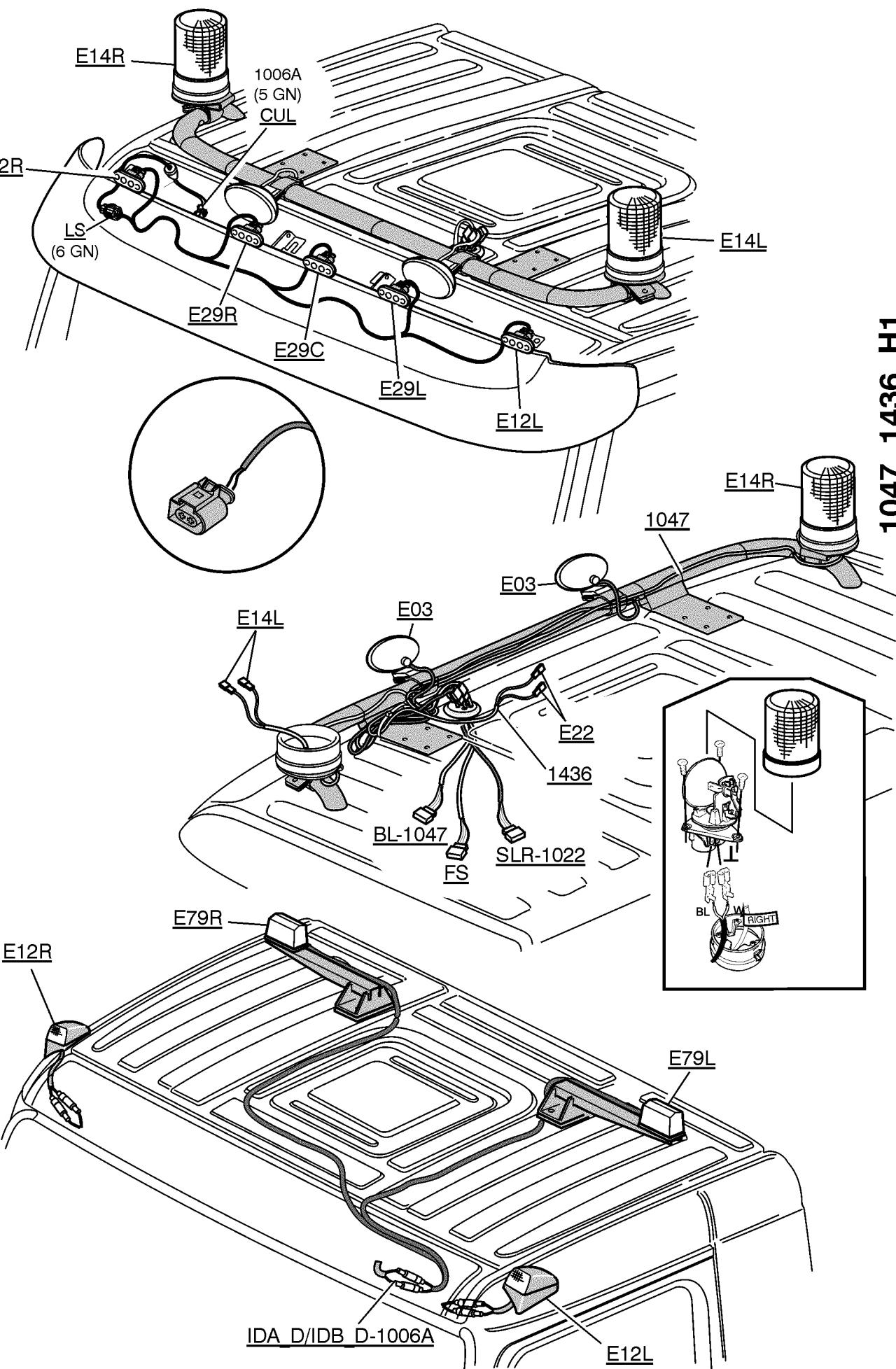
1040, RIGID



1040, RIGID

T3017728

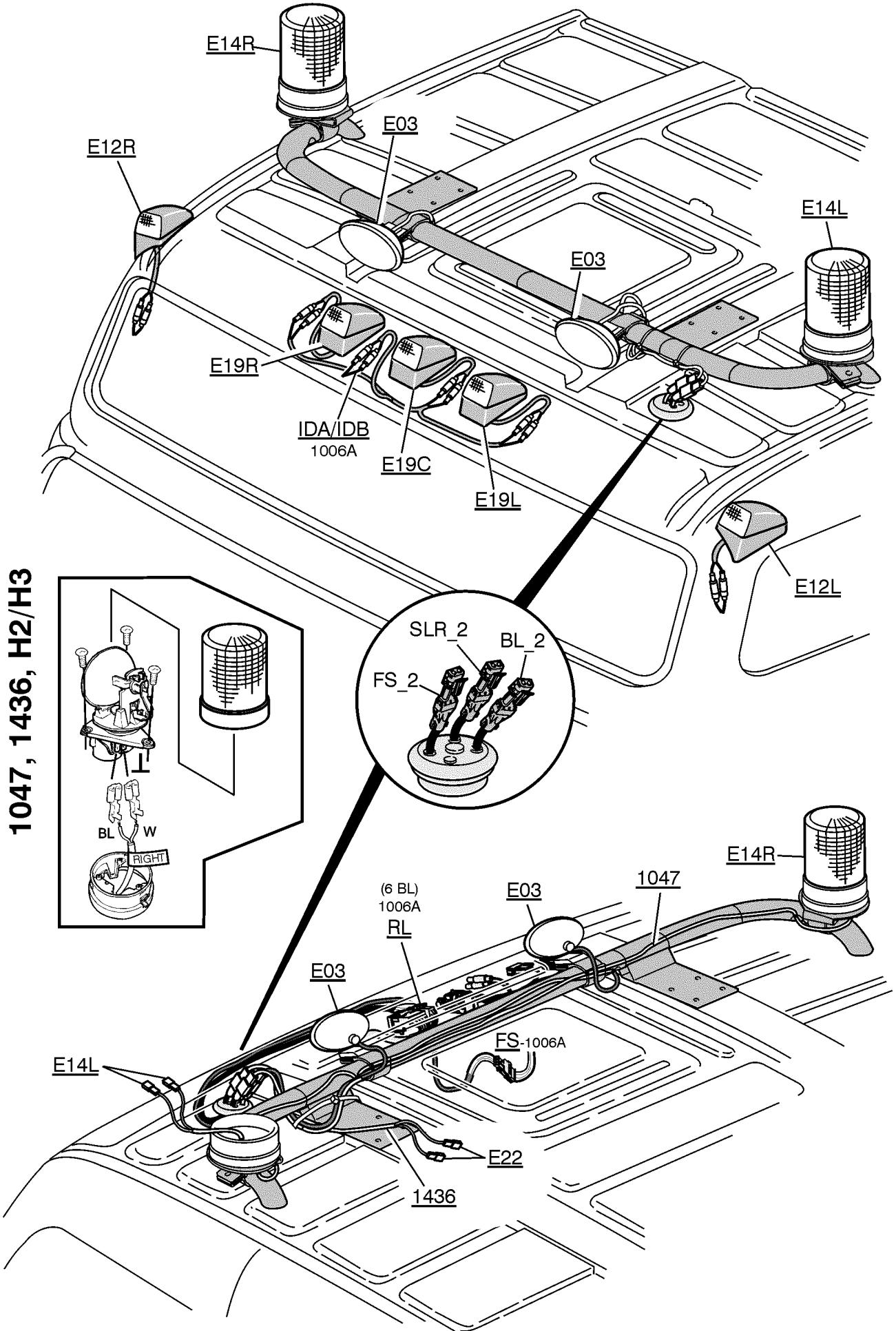
1047, 1436, H1



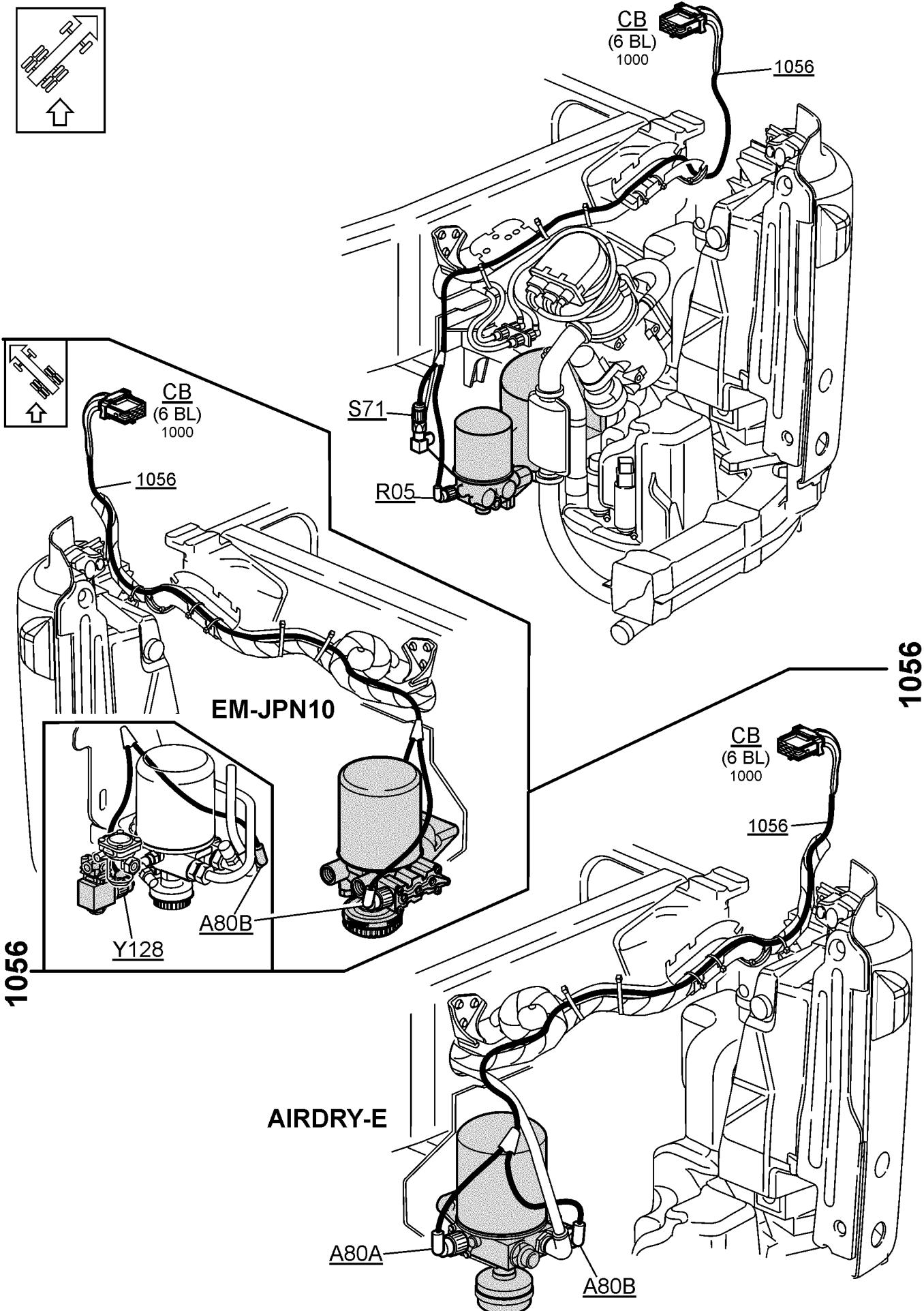
1047, 1436, H1

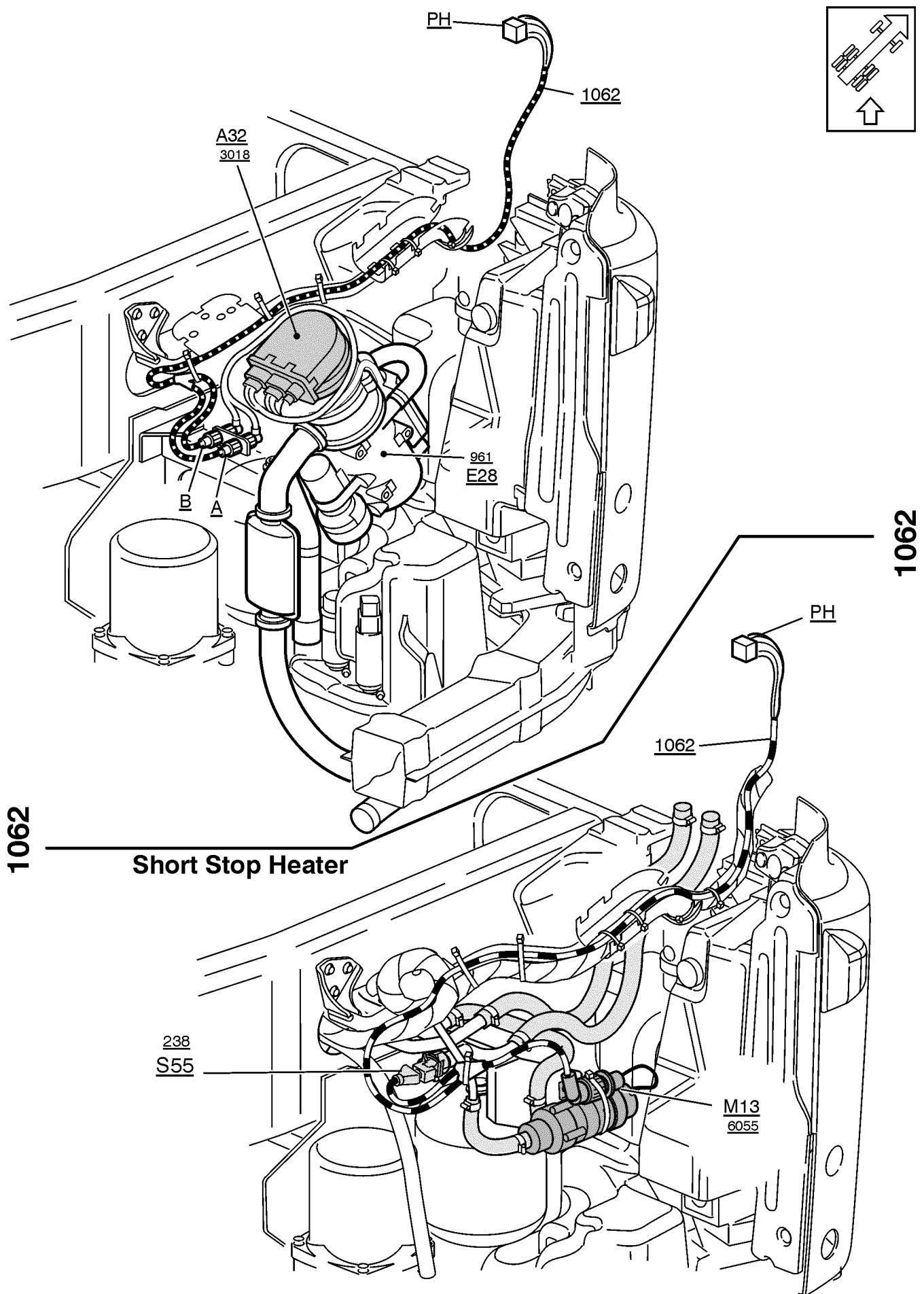
T3021579

1047, 1436, H2/H3



1047, 1436, H2/H3



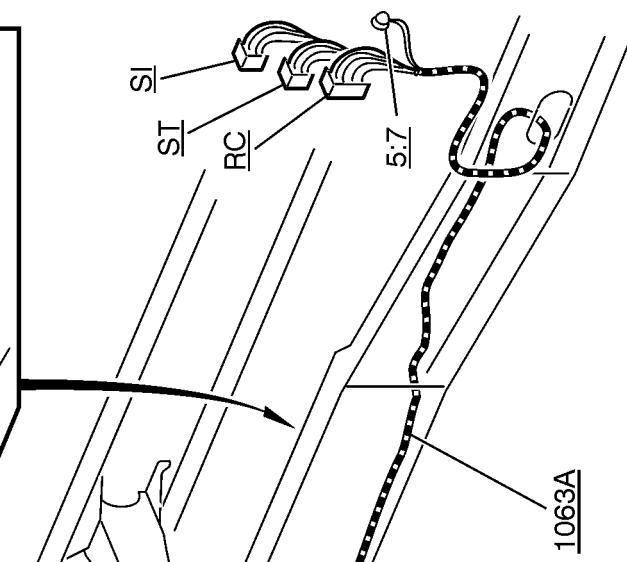
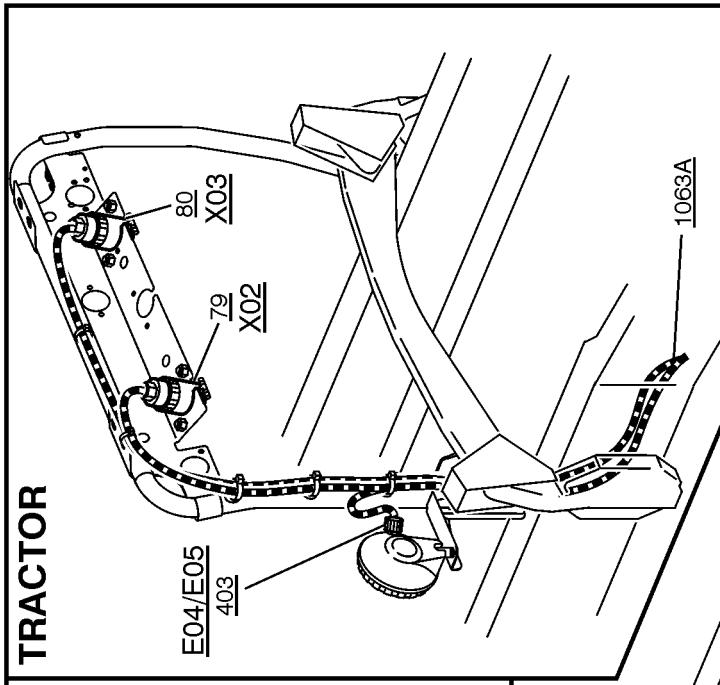


1063

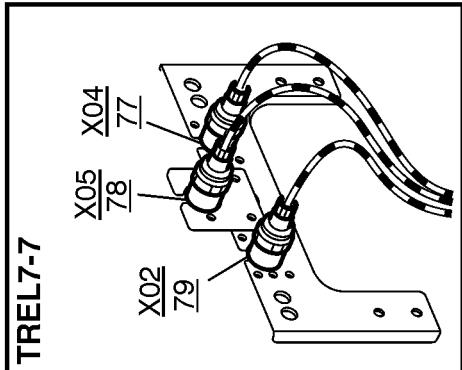
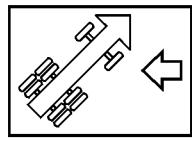
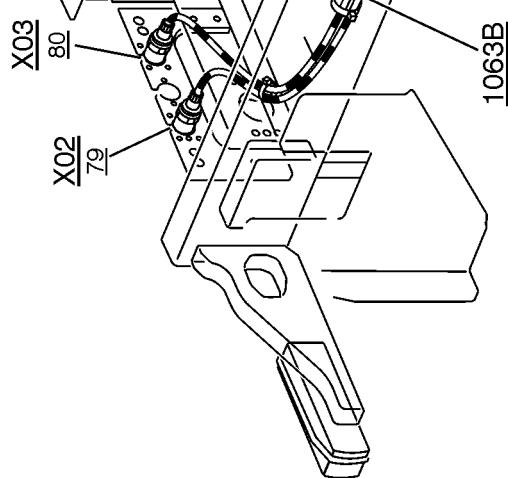
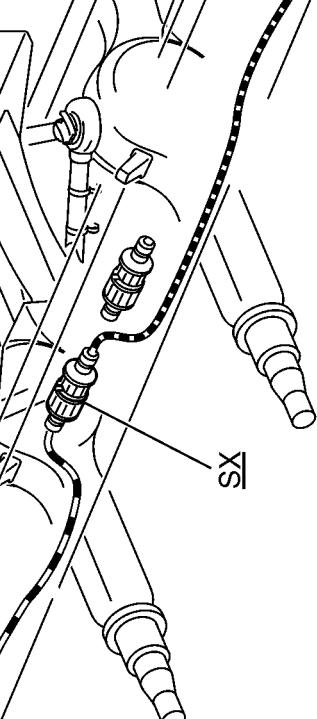
T

ABS/TREL14

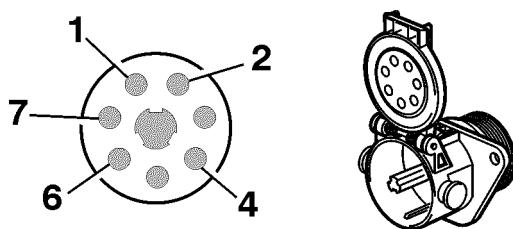
TRACTOR



1063



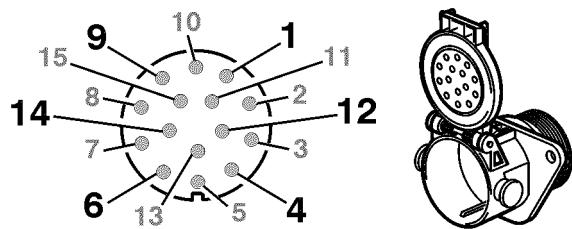
X02



T3019932

Pin no:	Circuit function	Colour	Diagram
1	Power supply kl. 30	OR	GG:4 E/ GH:3 D/ GK:3 E/ GR:3 E
2	Power supply kl. 15	GR	GG:3 E/ GH:3 D/ GK:3 E/ GR:2 E
3	Ground	W	GG:3 E/ GH:3 D/ GK:3 E/ GR:2 E
4	Ground	W	GG:3 E/ GH:3 D/ GK:3 E/ GR:2 E
5	ABS trailer status	BN	GG:3 E/ GH:3 D/ GK:3 E/ GR:3 E
6	Trailer CAN bus A	P	GG:3 E/ GH:3 D/ GK:4 E/ GR:3 E
7	Trailer CAN bus B	VO	GG:3 E/ GH:3 D/ GK:4 E/ GR:3 E

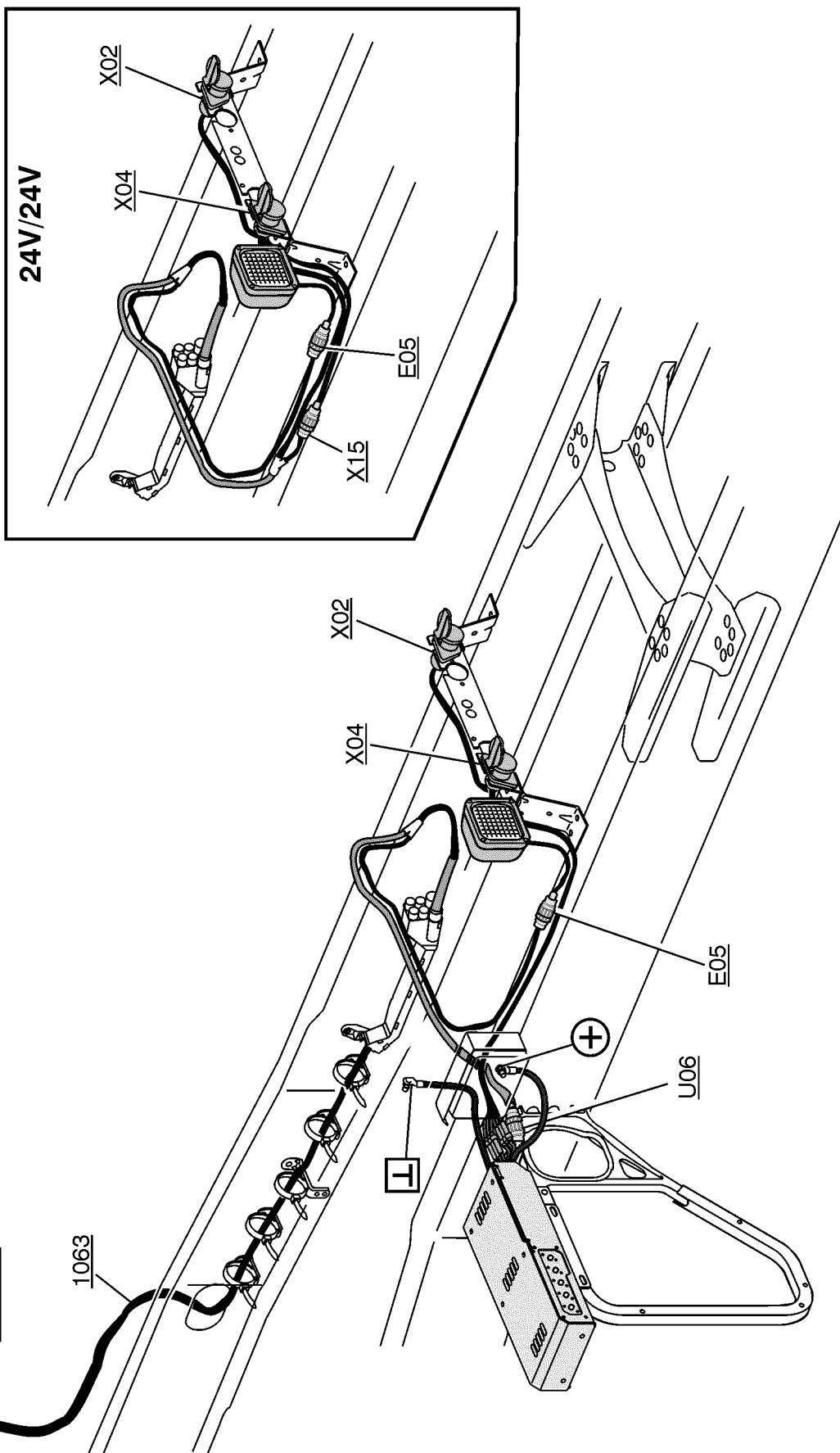
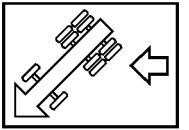
X03



T3019933

Pin no:	Circuit function	Colour	Diagram
1	Direction indicator left, trailer	Y	GG:0 E/ GH:1 D
2	Direction indicator right, trailer	GN	GG:0 E/ GH:1 D
3	Rear fog lights, trailer	BL/GR	GG:1 E/ GH:0 D
4	Ground	W	GG:1 E/ GH:1 D
5	Parking lights left, trailer	GR/SB	GG:0 E/ GH:1 D
6	Parking lights right, trailer	GR/R	GG:0 E/ GH:1 D
7	Brake lights, trailer	R/SB	GG:0 E/ GH:1 D
8	Reverse lights, trailer	BL/SB	GG:0 E/ GH:1 D
9	Body builder preparation	R	GG:1 E/ GH:1 D
10	Body builder preparation	BL	GG:1 E/ GH:1 D
11	Body builder preparation	GR/SB	GG:1 E/ GH:1 D
12	Body builder preparation	GN/GR	GG:1 E/ GH:1 D
13	Ground	W	GG:0 E/ GH:1 D
14	Body builder preparation	BL/W	GG:0 E/ GH:0 D
15	Body builder preparation	BL/R	GG:0 E/ GH:0 D

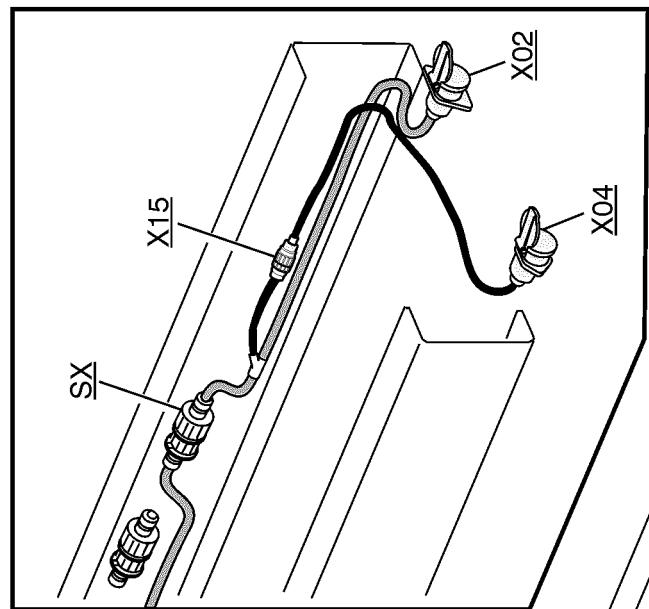
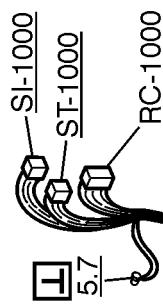
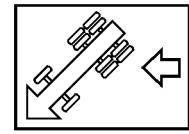
1063, Australia



1063, Australia

T3020631

1063, Australia

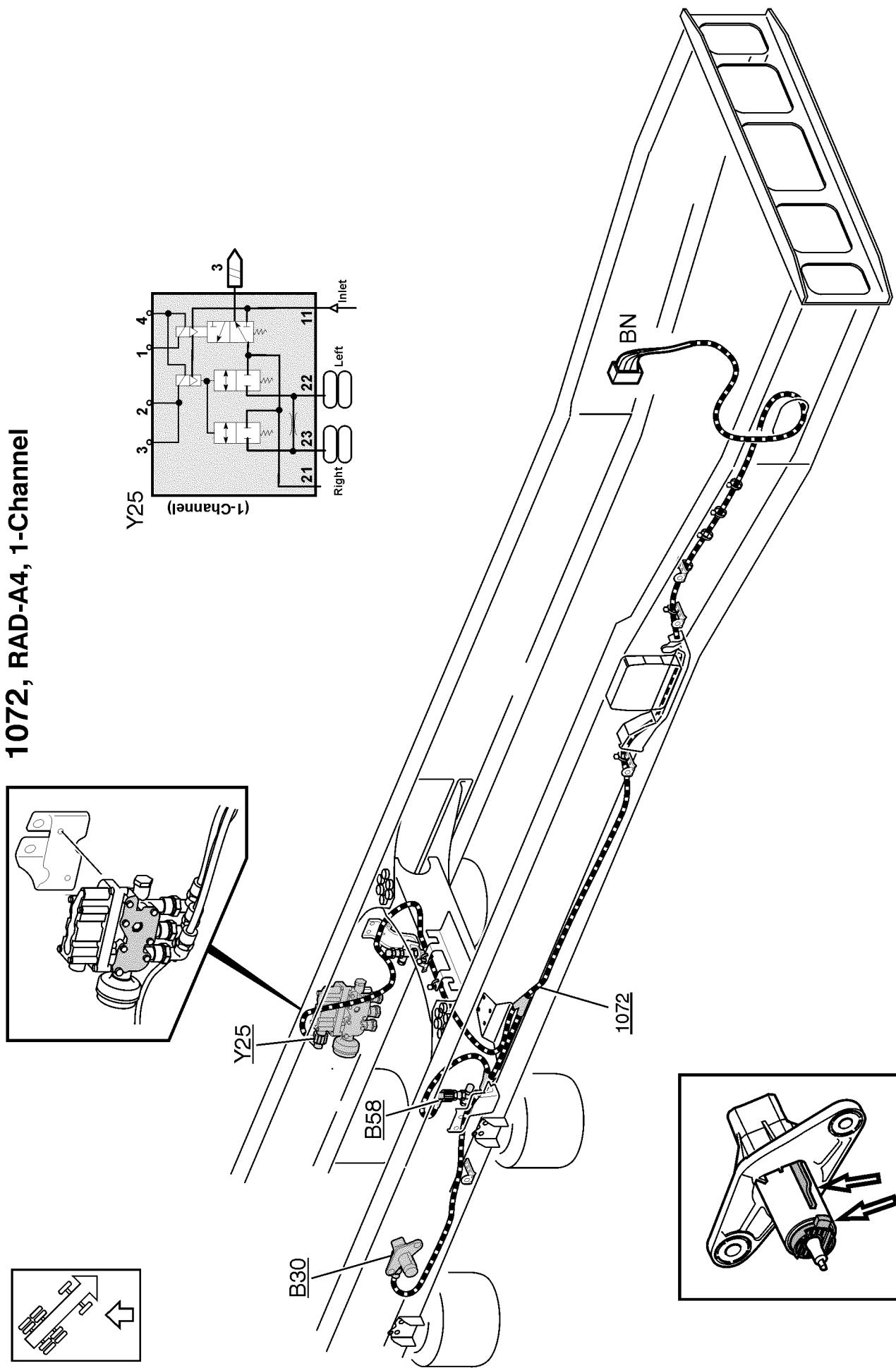


1063, Australia



T3020569

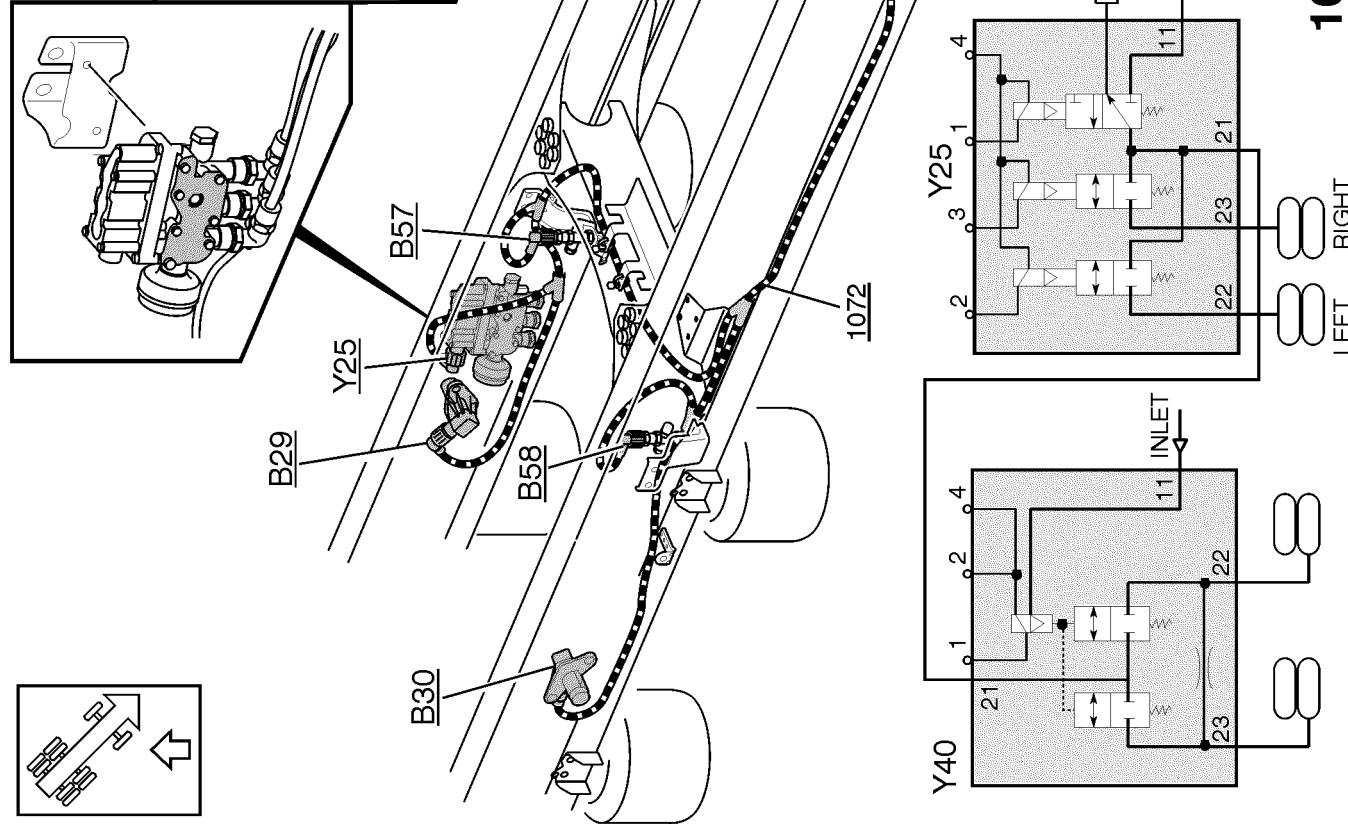
1072, RAD-A4, 1-Channel



1072, RAD-A4, 1-Channel

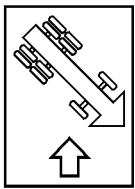
T3081940

1072, RAD-A4, 2-Channel

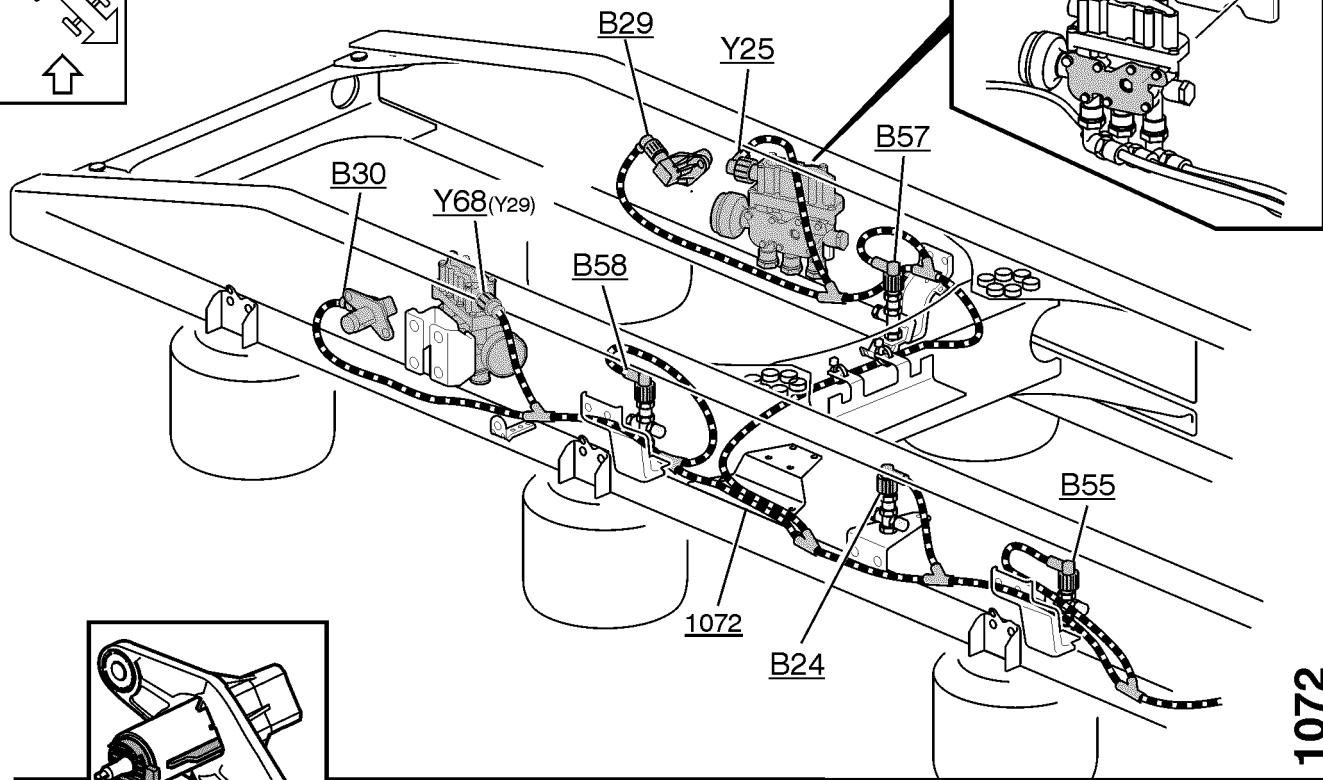


1072, RAD-A4, 2-Channel

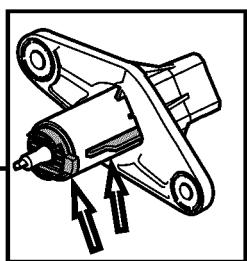
T3020571



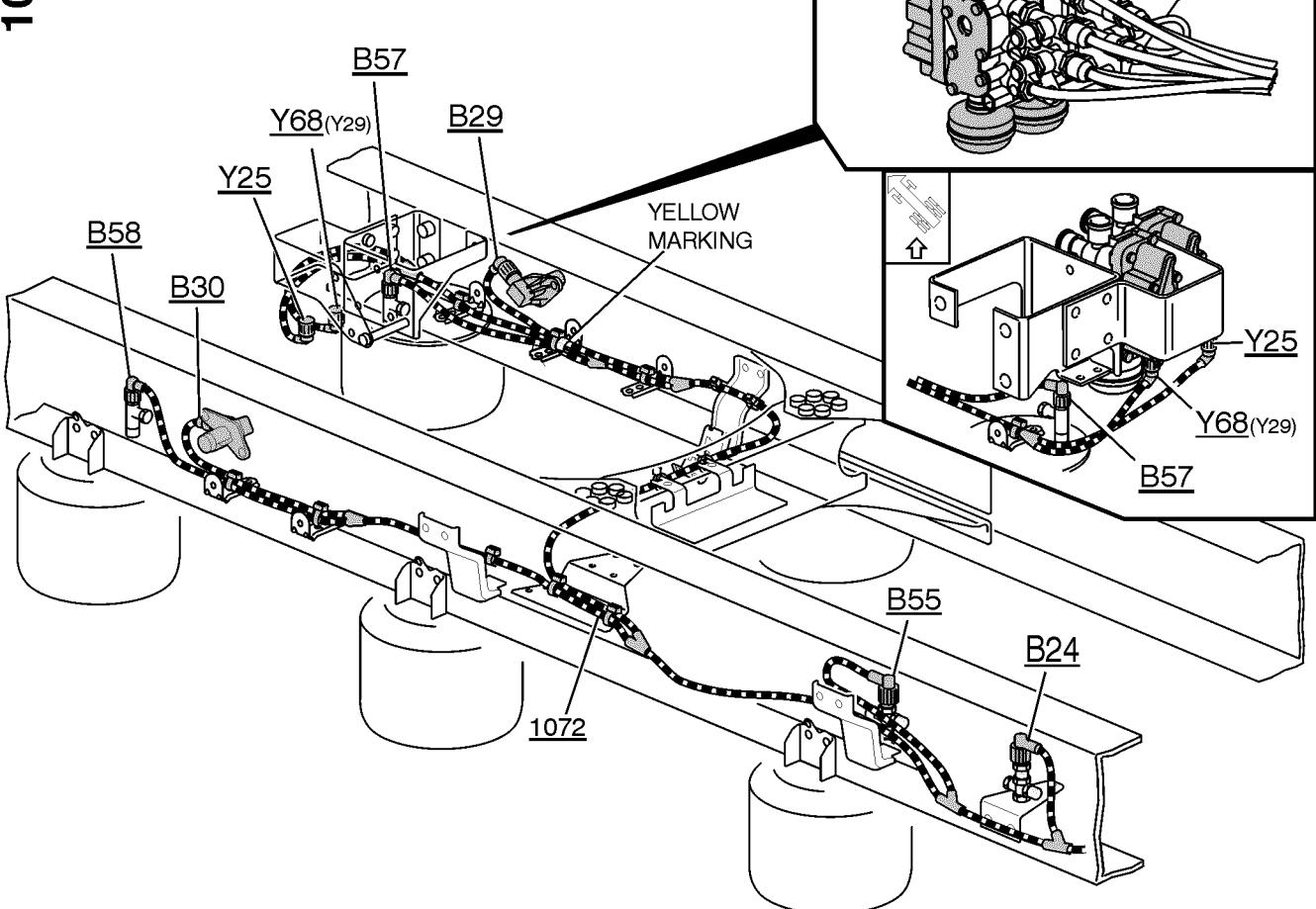
Pusher, TRACTOR



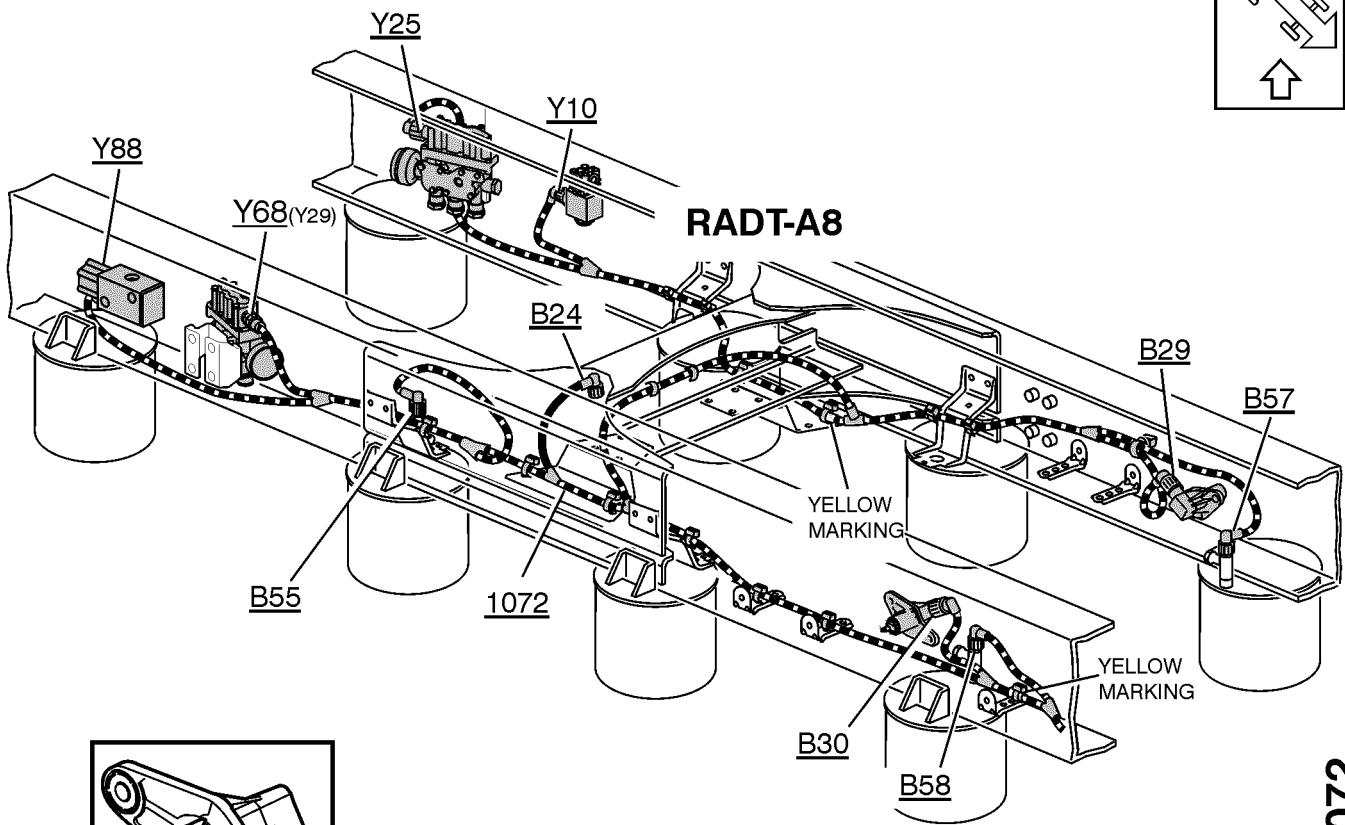
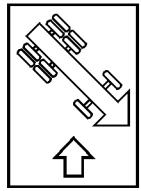
1072



Pusher, RIGID

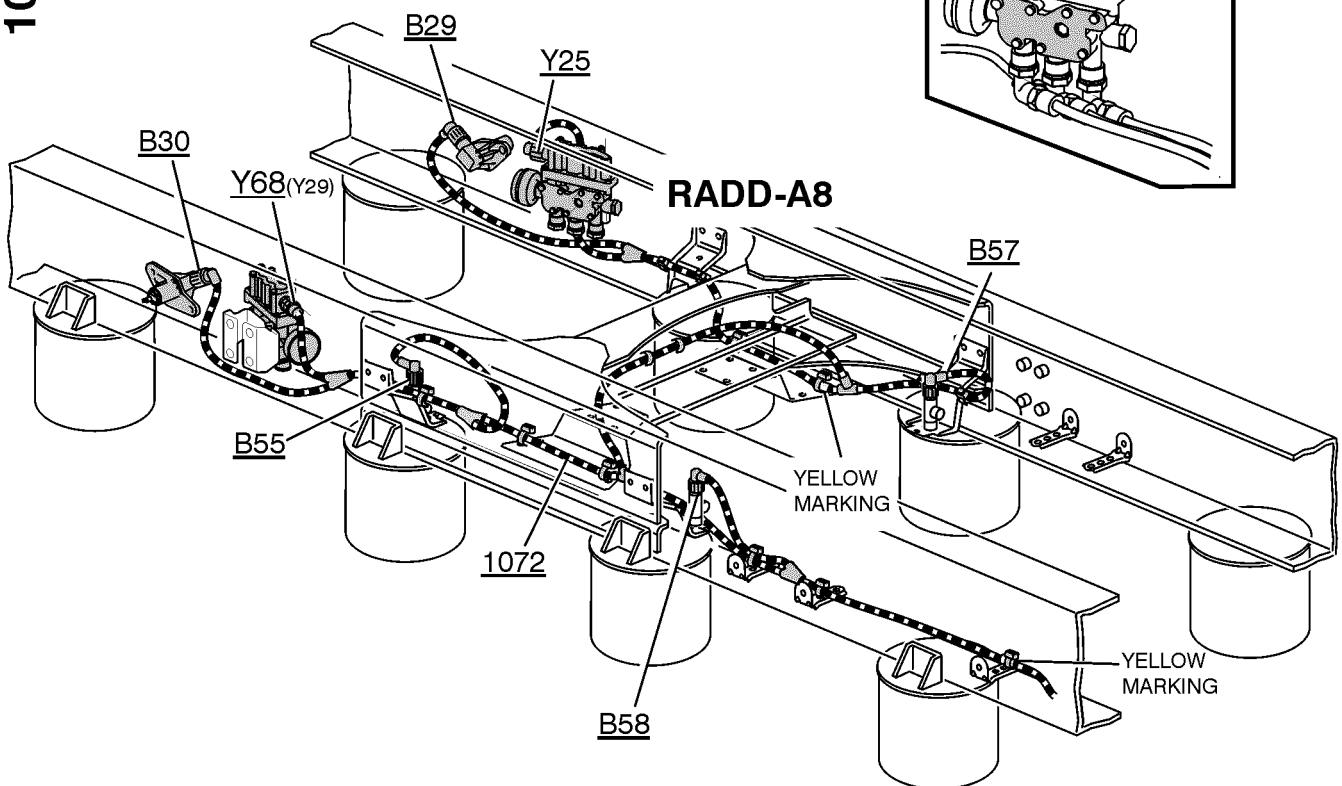


T3022032



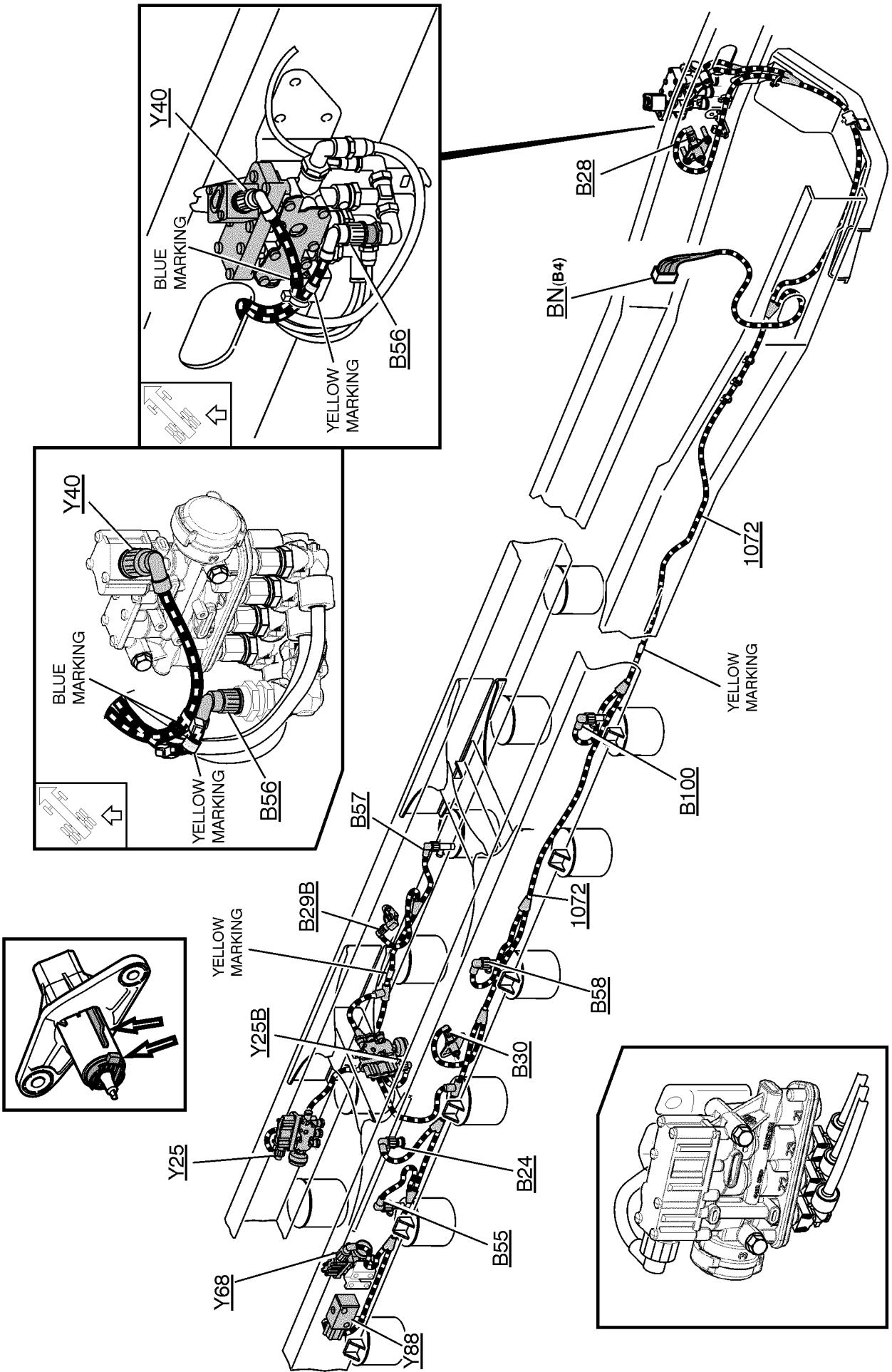
1072

1072



T3022033

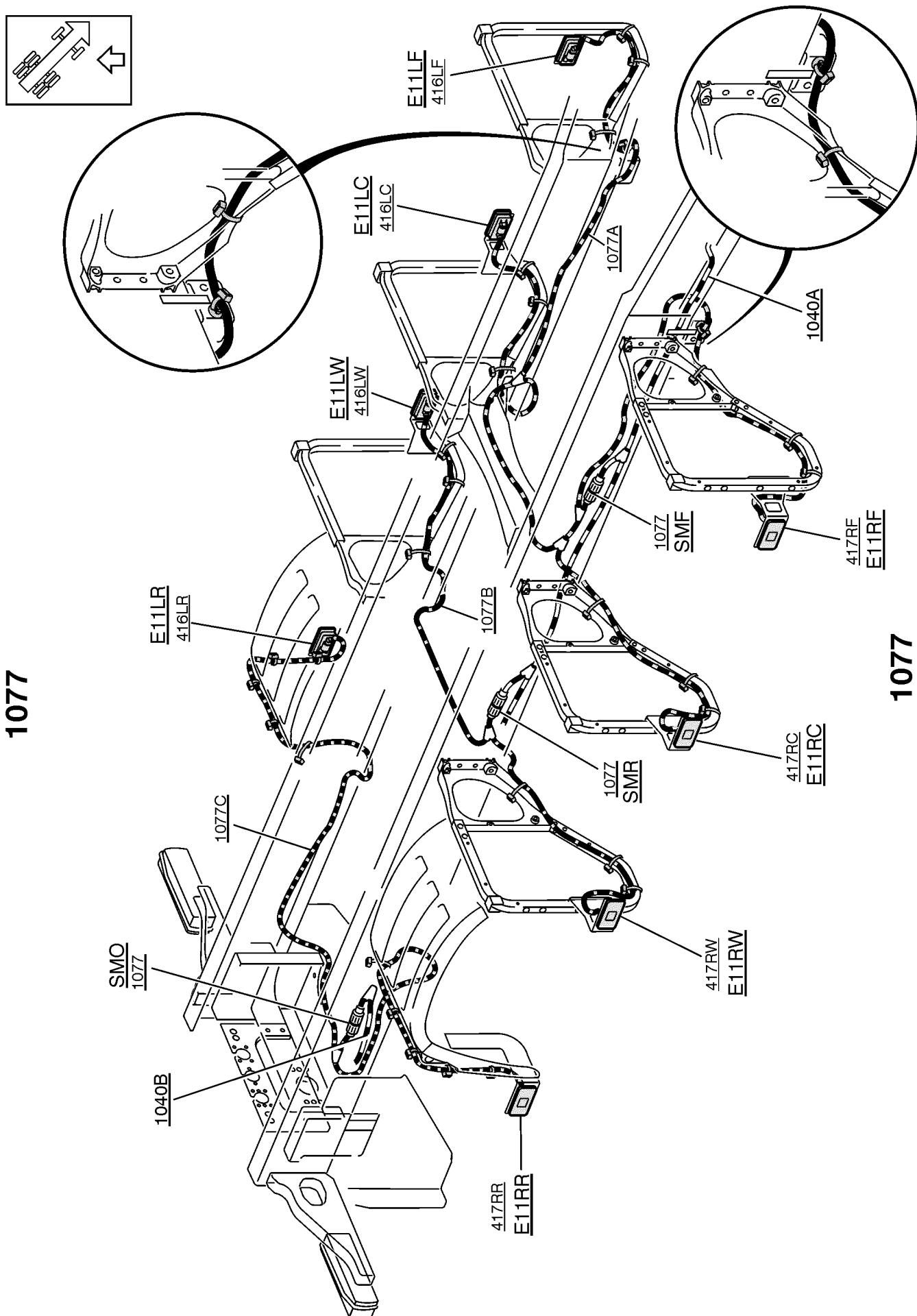
1072, TRIDEM



T3029525

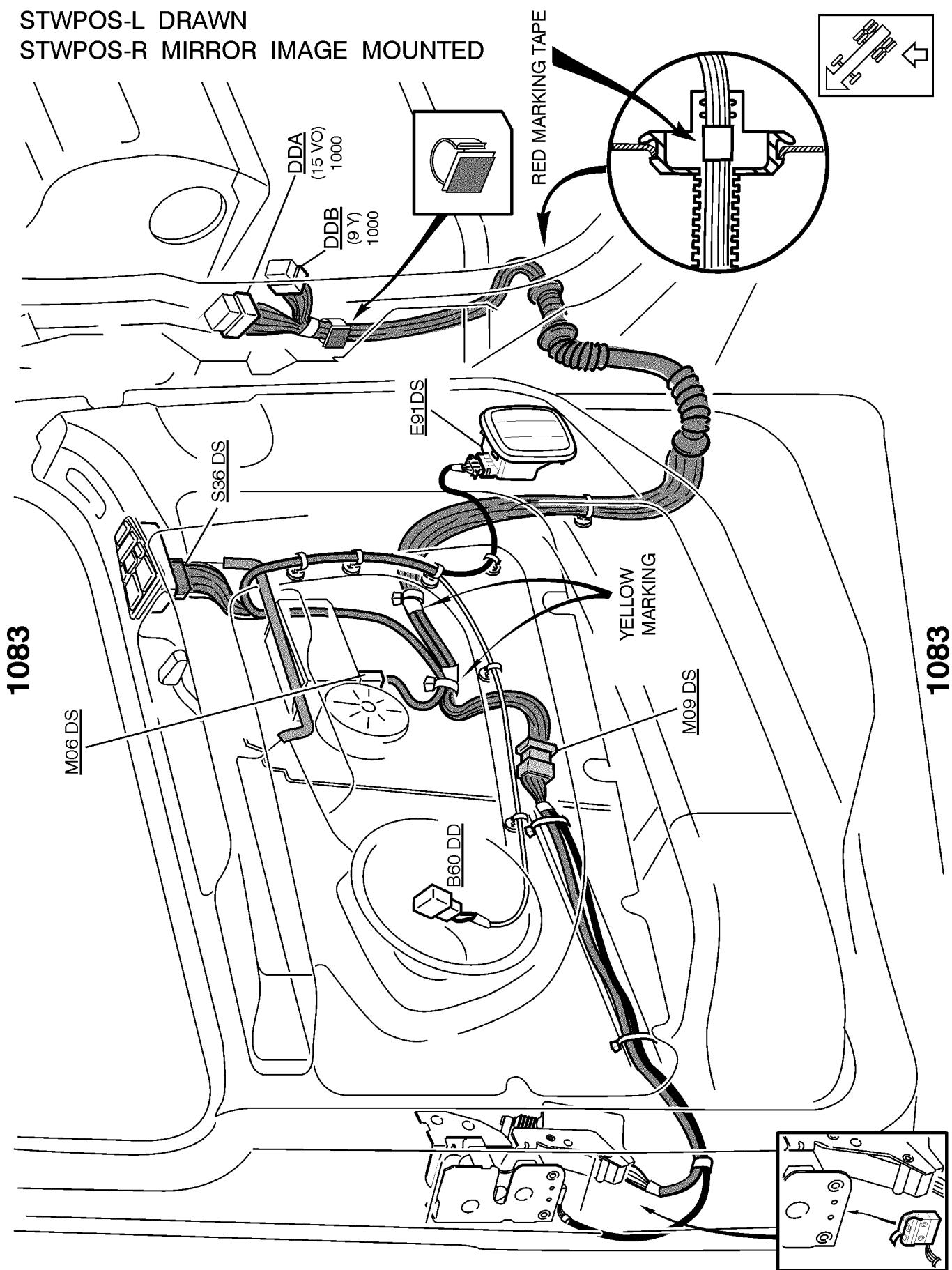
1077

1077

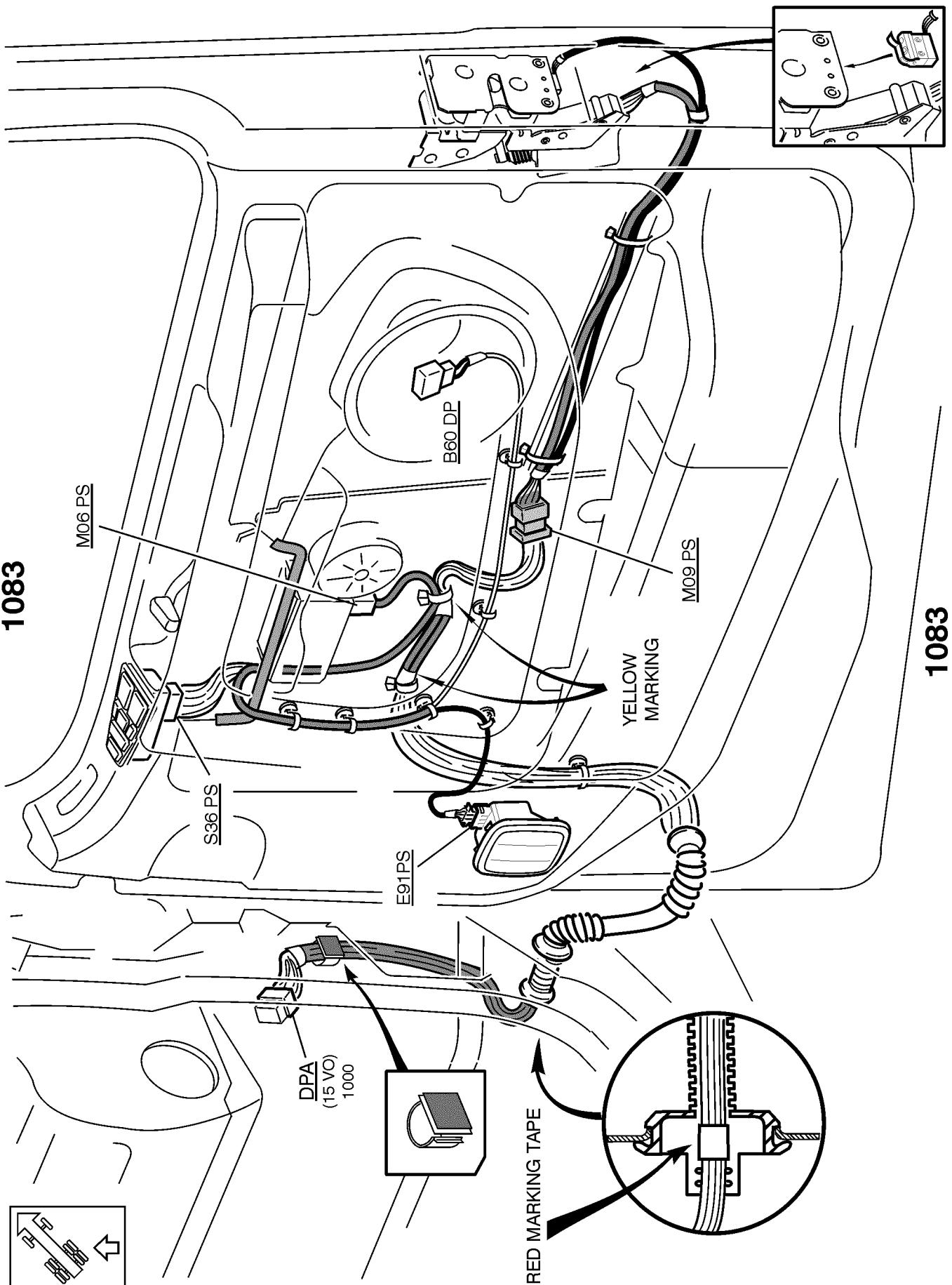


T3019291

STWPOS-L DRAWN
STWPOS-R MIRROR IMAGE MOUNTED

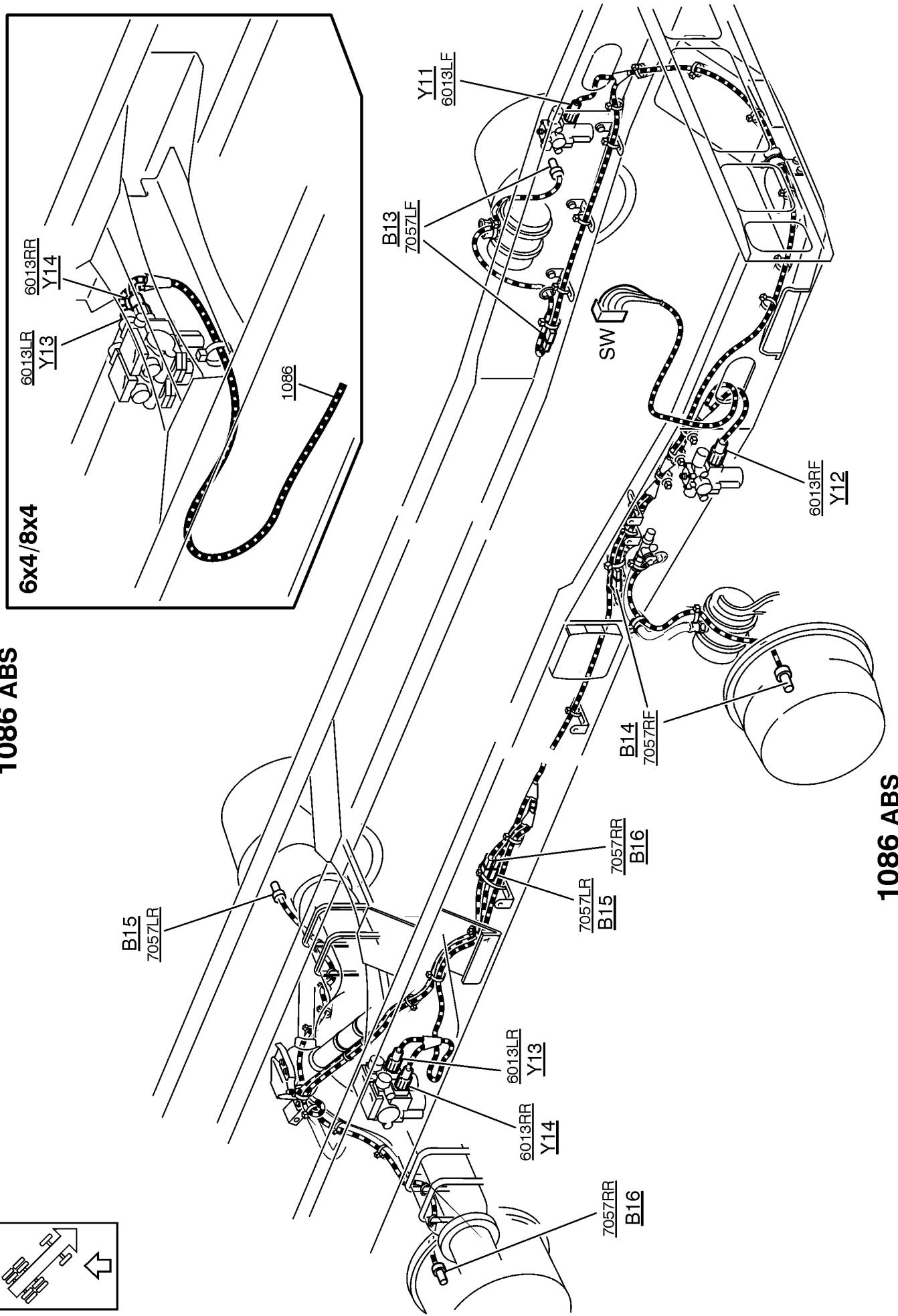


STWPOS-L DRAWN
STWPOS-R MIRROR IMAGE MOUNTED

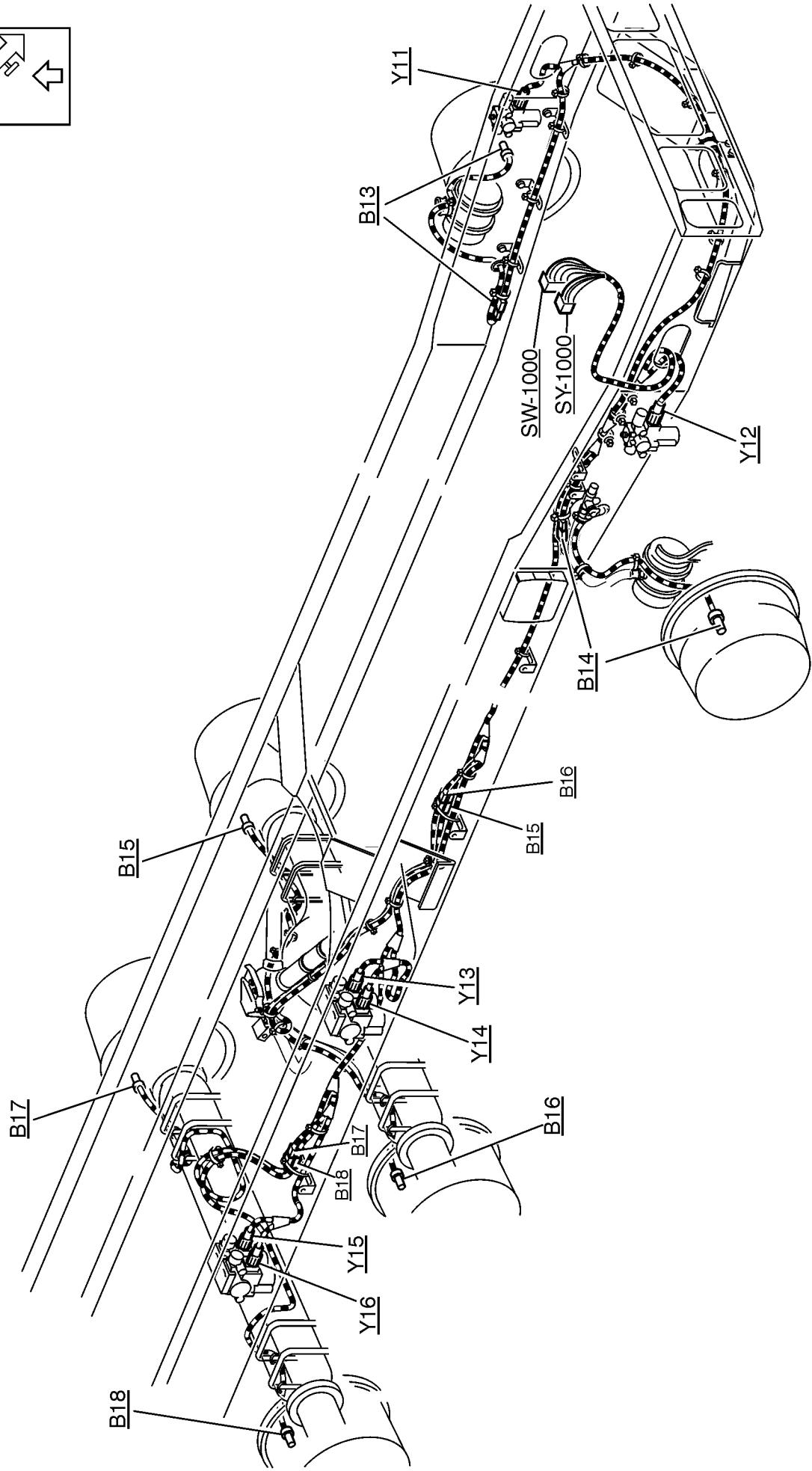
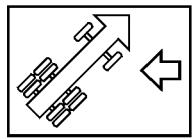


T3021655

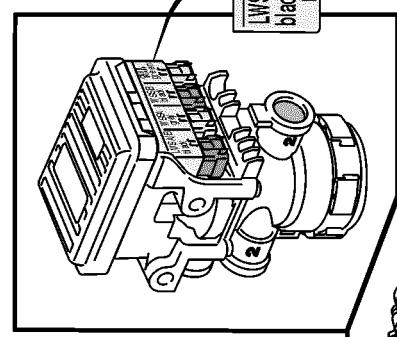
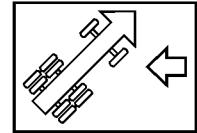
1086 ABS



1086 ABS, 6x2, VERS-SAM



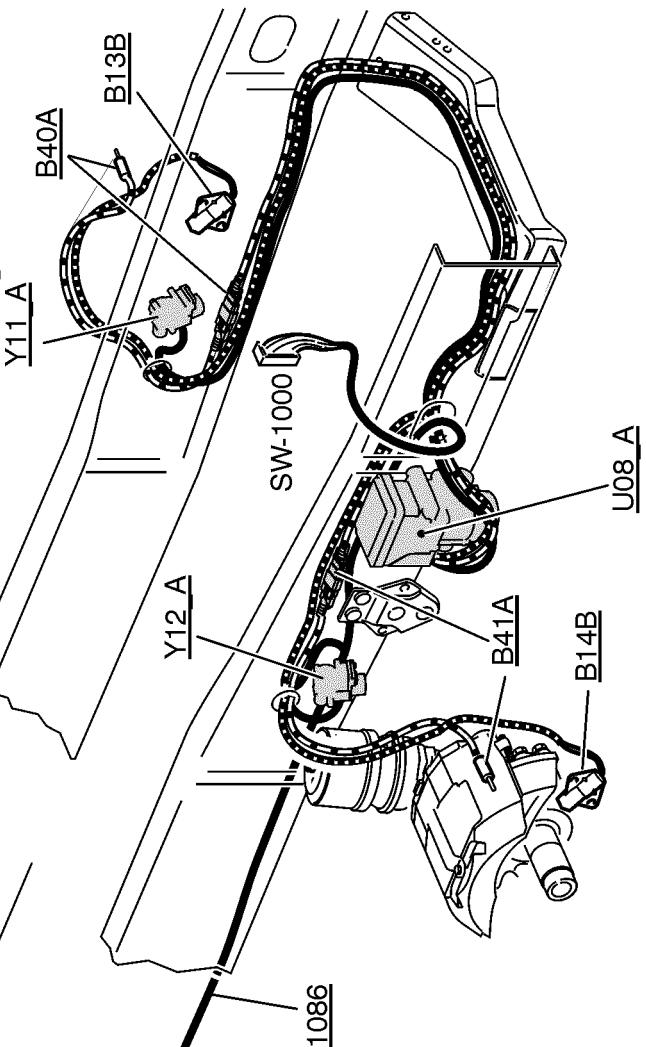
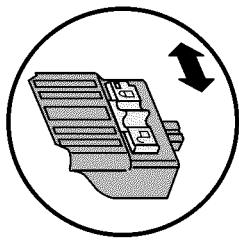
T3020574



1086 EBS, RAD-A4

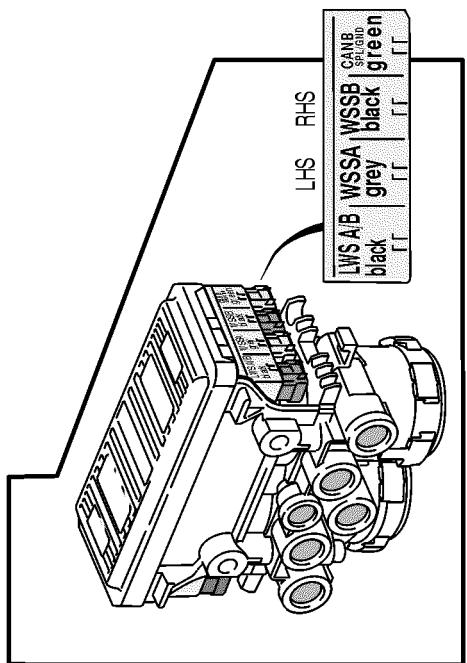
LWS A/B	WSSA	WSSB	CANB	CANB
black	grey	black	green	green
TT	TT	TT	TT	TT

LWS A/B	WSSA	WSSB	CANB	CANB
black	grey	black	green	green
TT	TT	TT	TT	TT



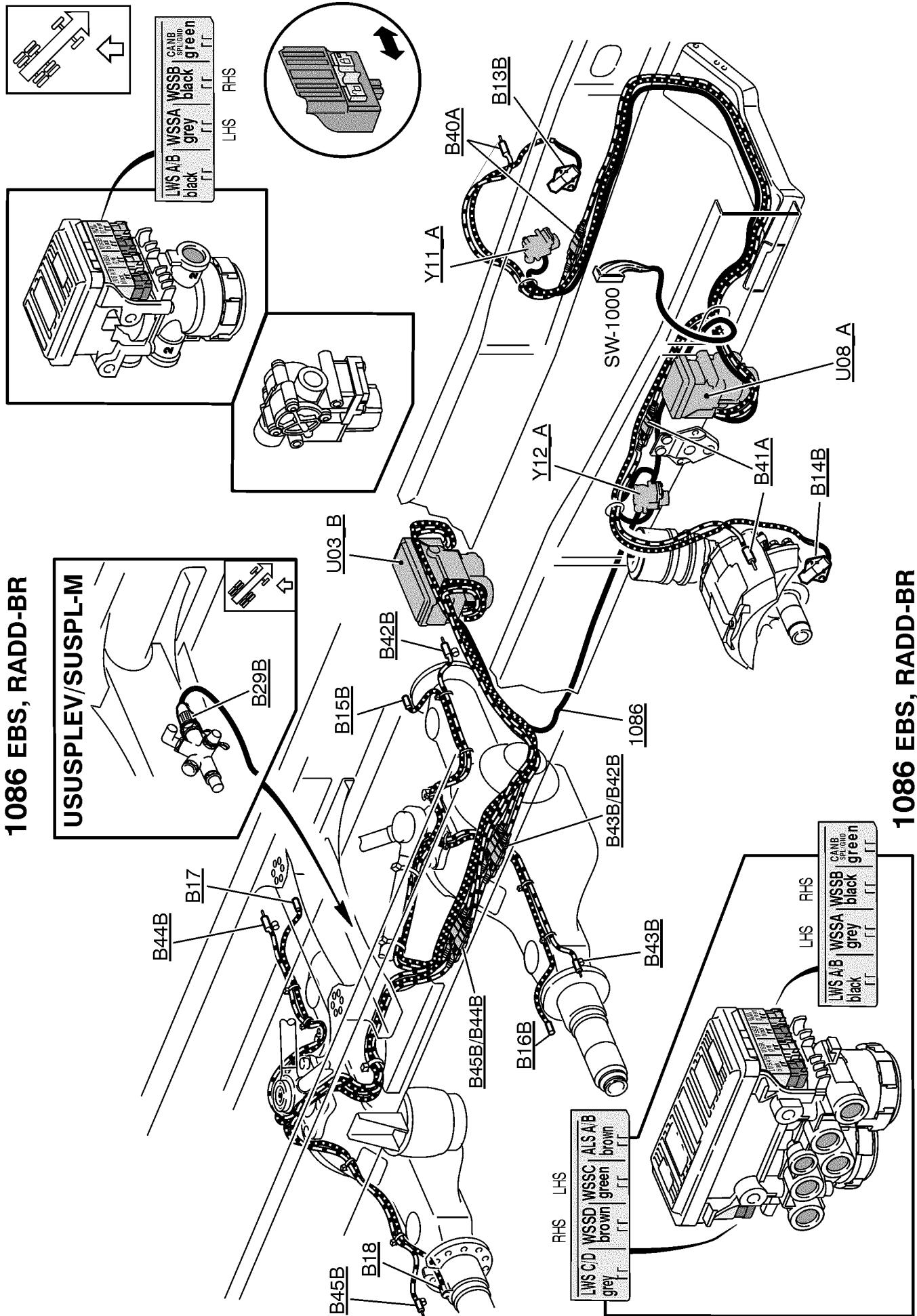
1086 EBS, RAD-A4

LWS A/B	WSSA	WSSB	CANB	CANB
black	grey	black	green	green
TT	TT	TT	TT	TT



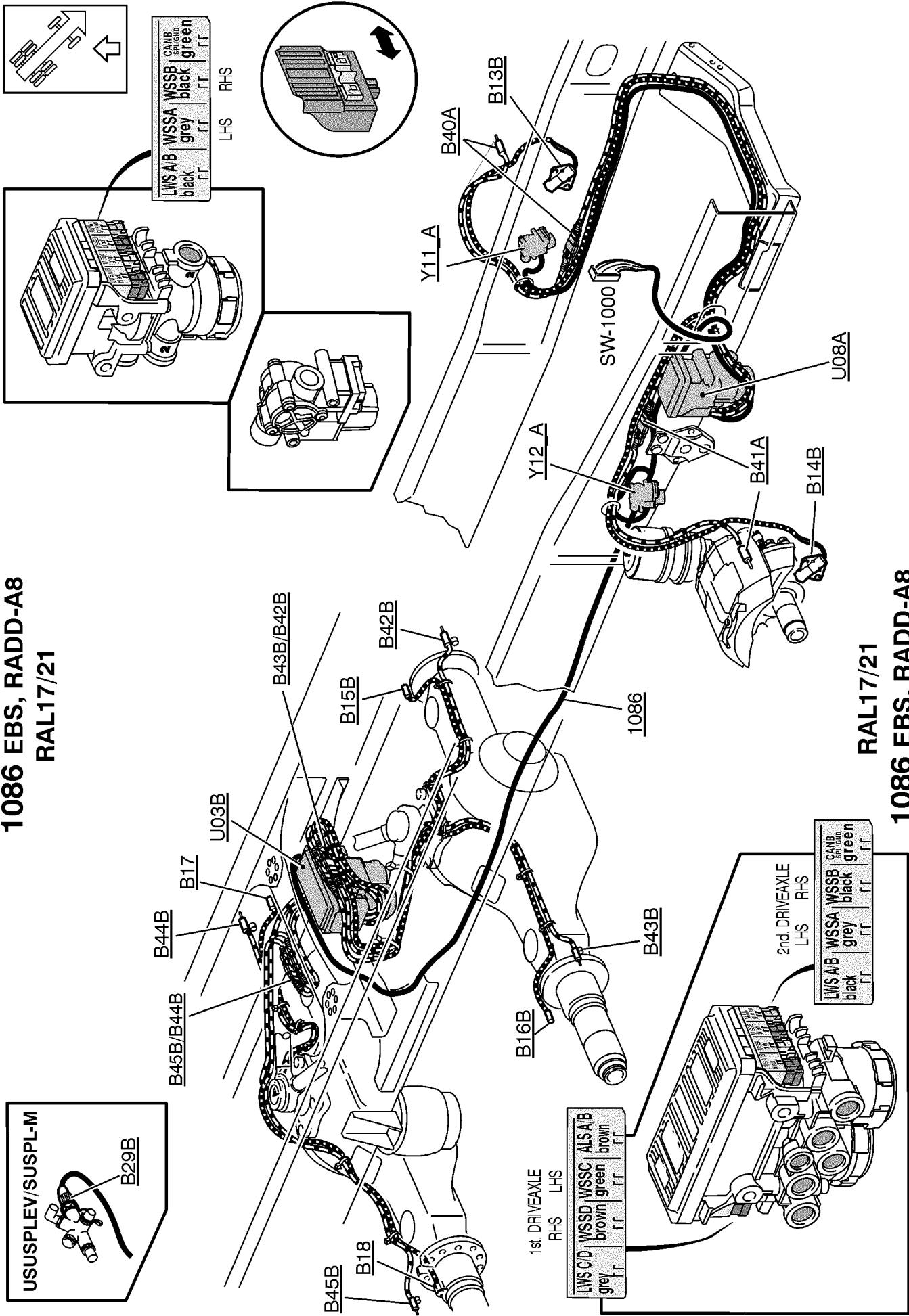
T3059945

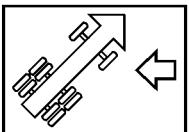
1086 EBS, RADD-BR



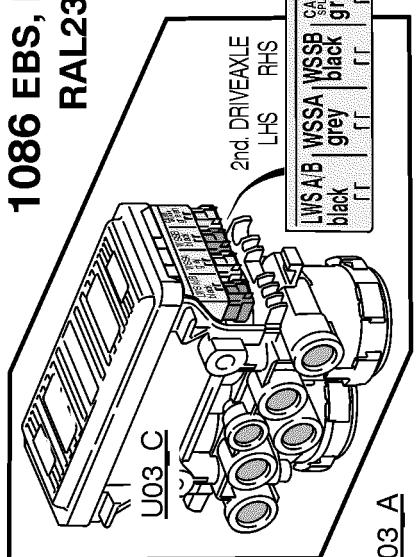
T3021656

1086 EBS, RADD-A8
RAL17/21

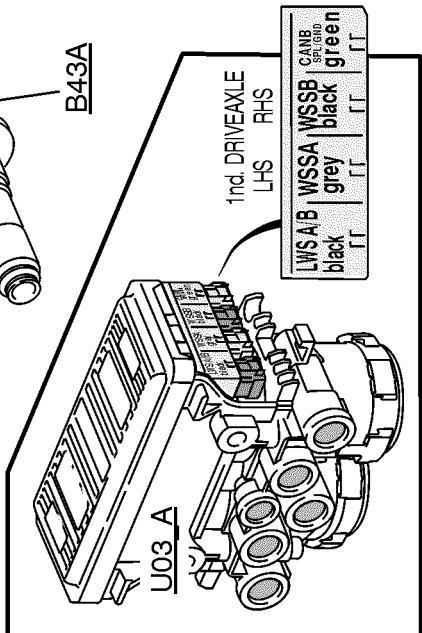
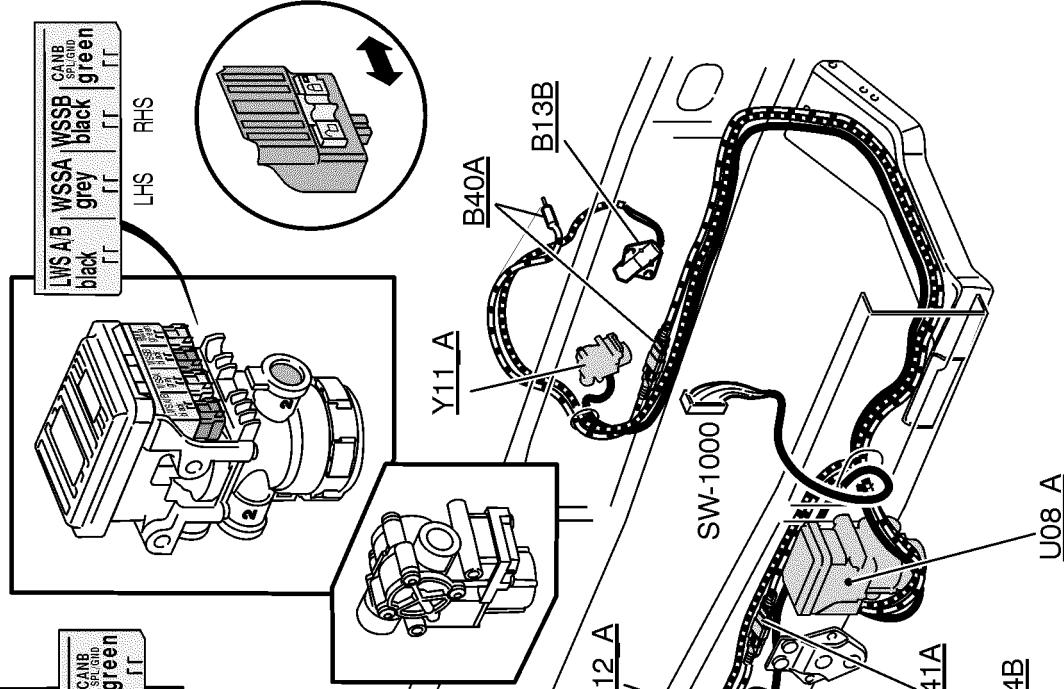




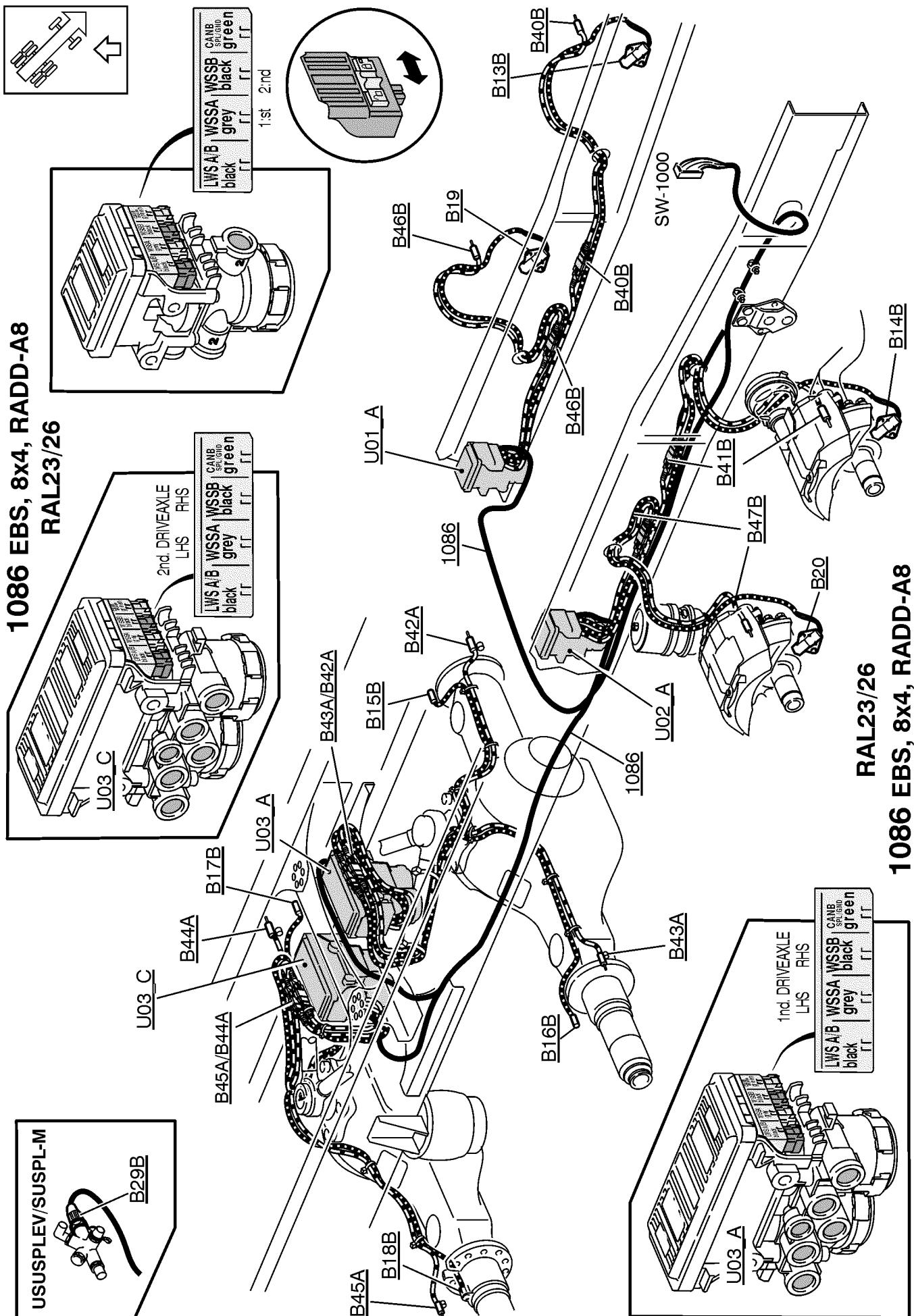
1086 EBS, RADD-A8
RAL23/26



1086 EBS, RADD-A8
RAL23/26



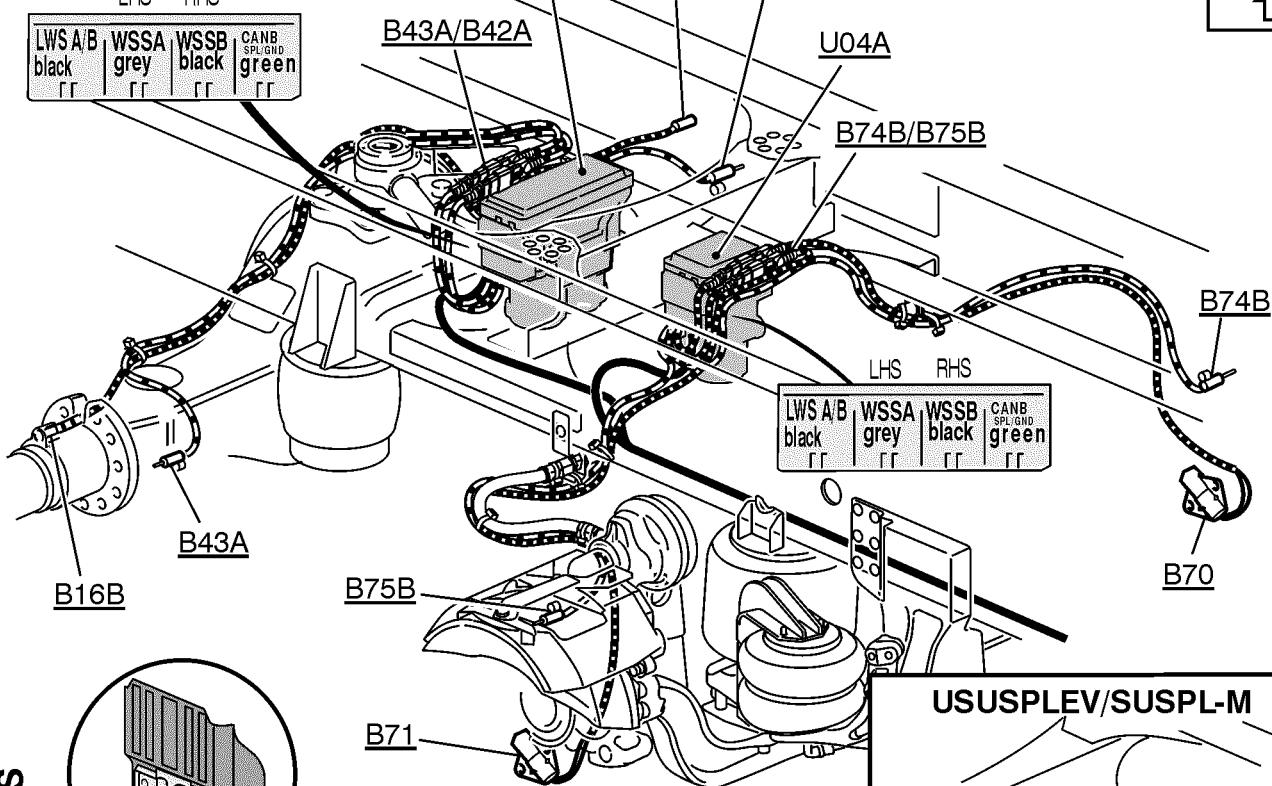
T3059946



T3059947

PUSHER

LHS	RHS
LWS A/B black WSSA grey WSSB black CANB SPL/GND green	

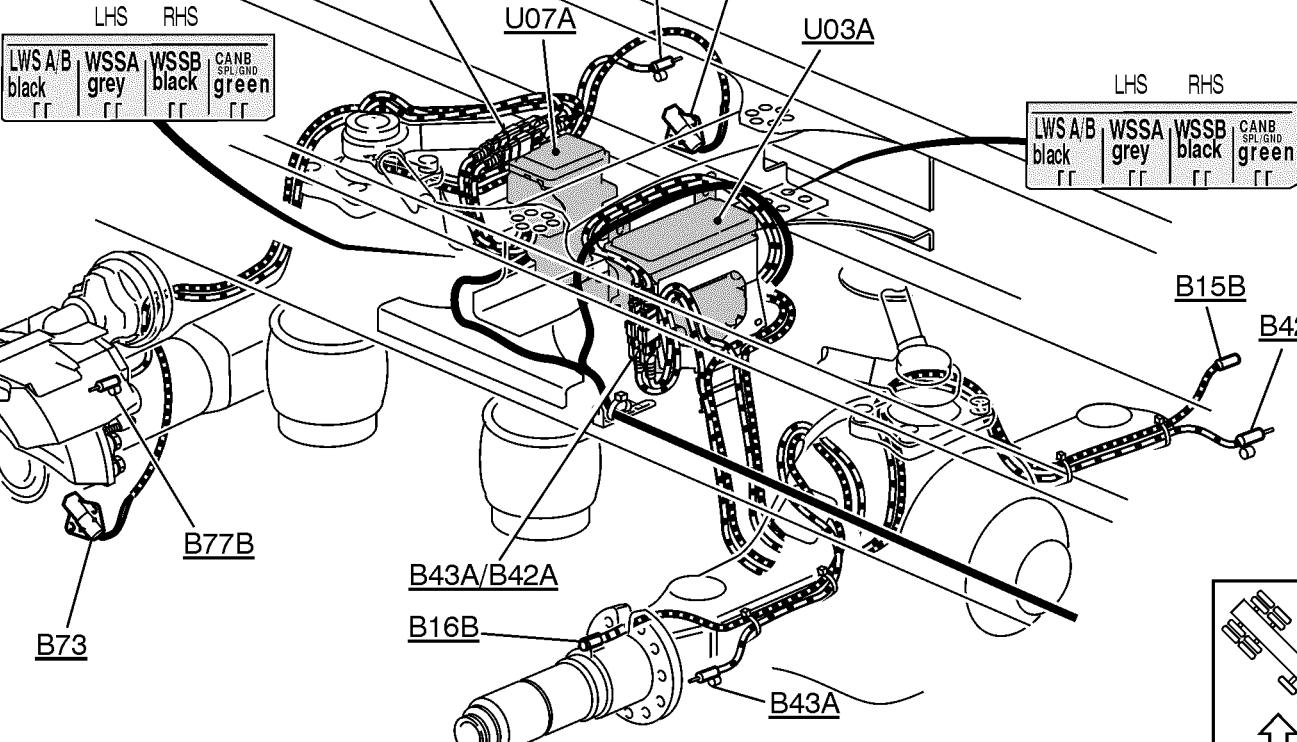


1086 EBS

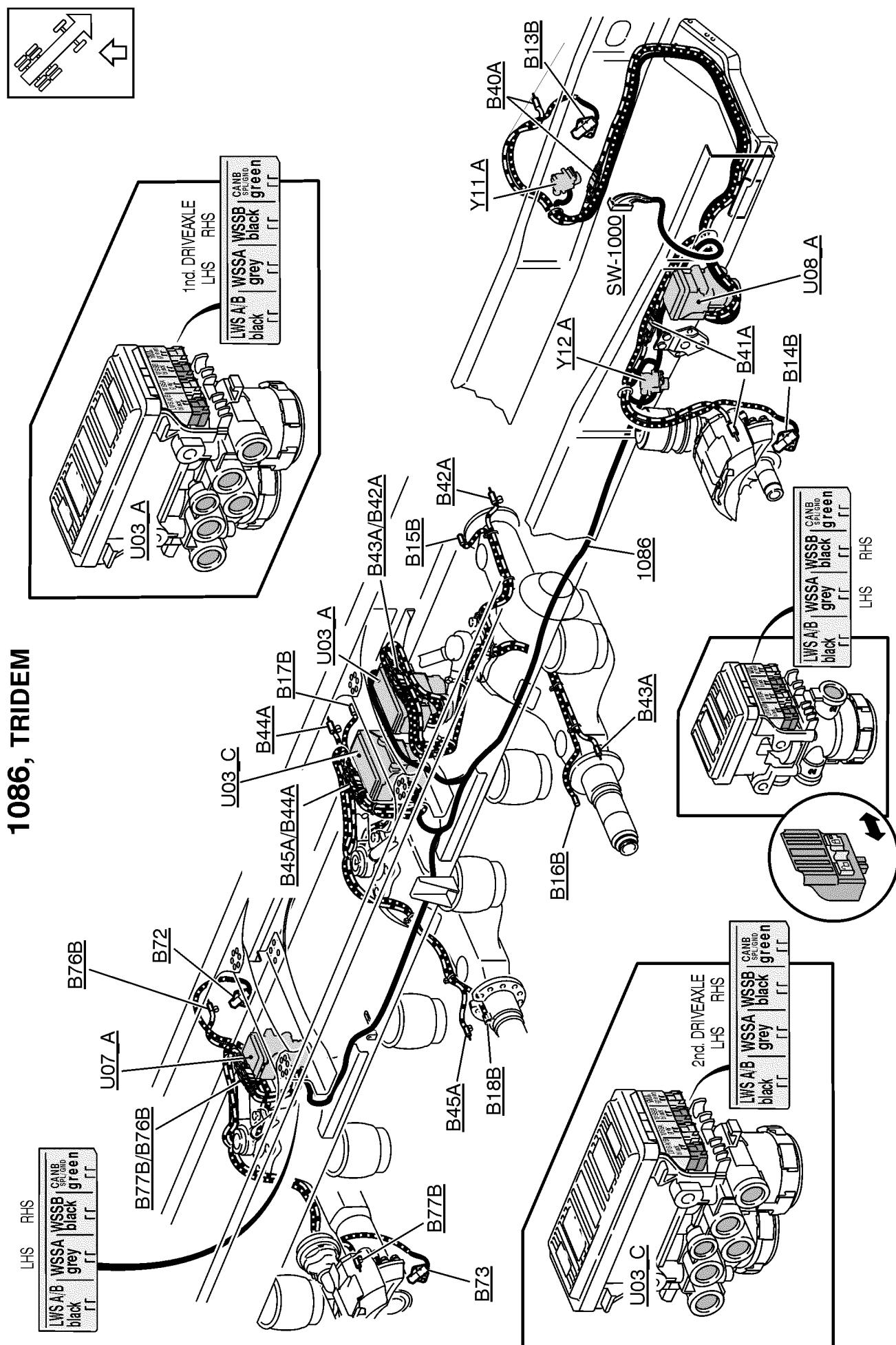
1086 EBS

PUSHER

LHS	RHS
LWS A/B black WSSA grey WSSB black CANB SPL/GND green	

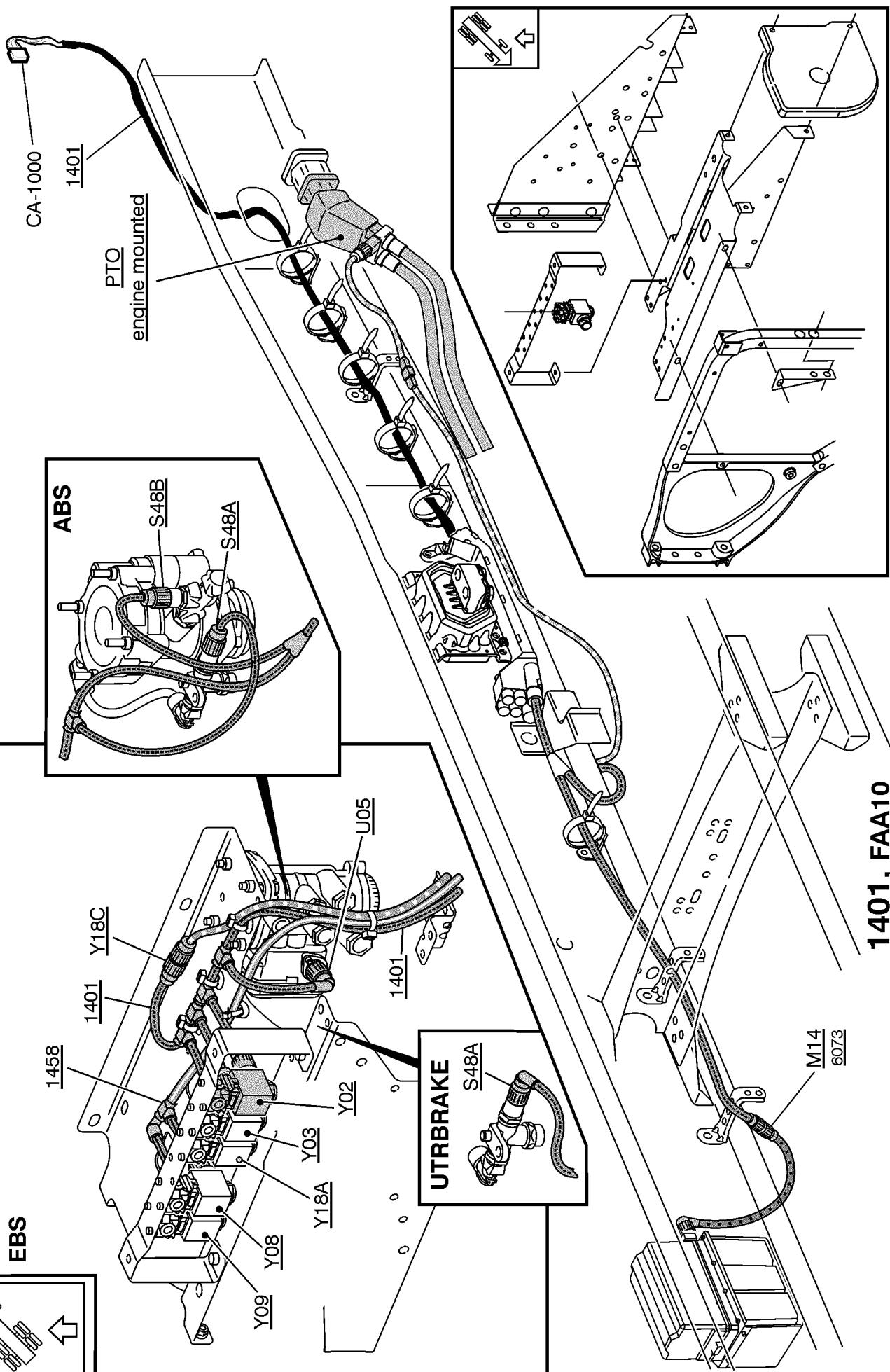


T3021584



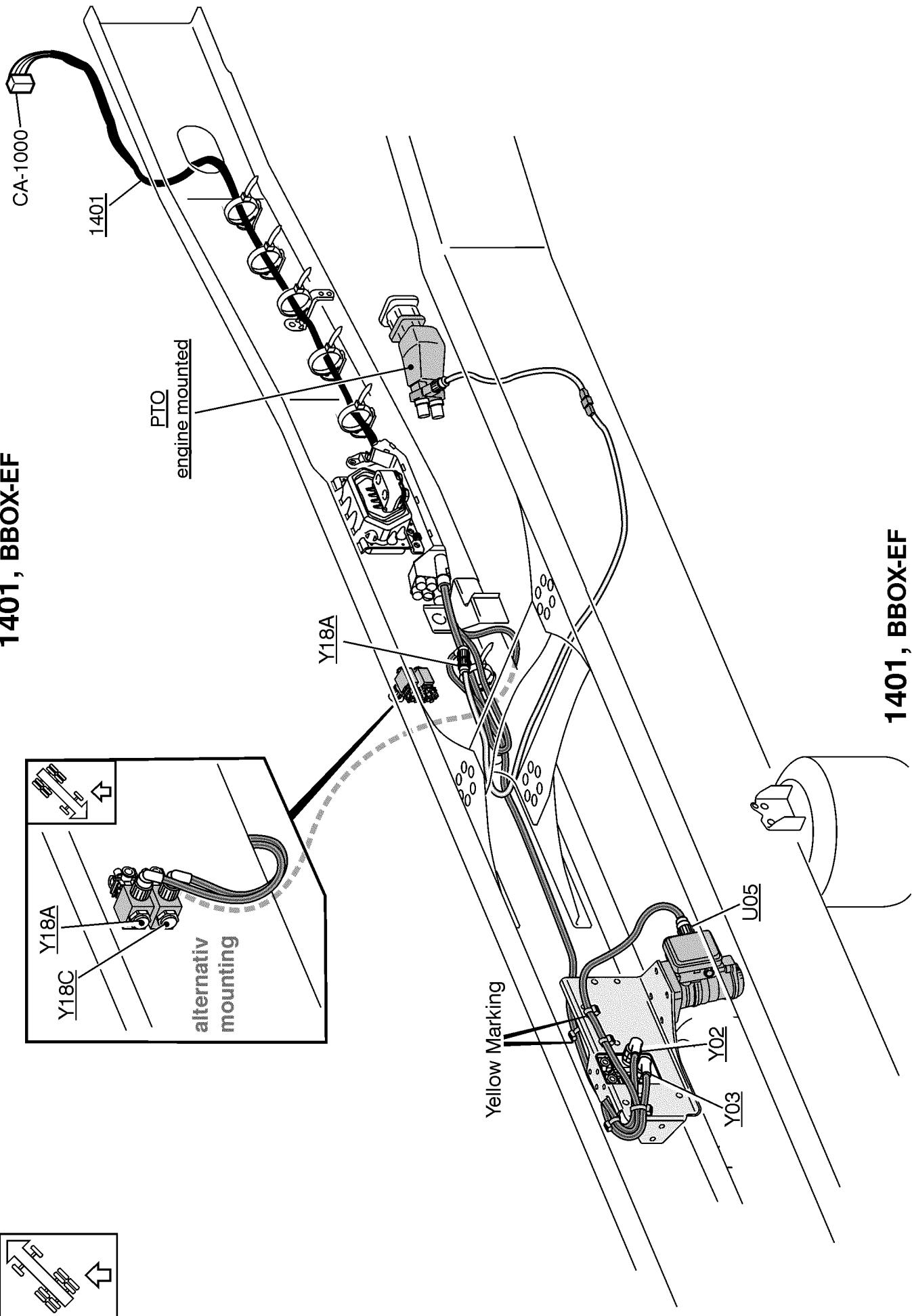
T3059948

1401, FAA10



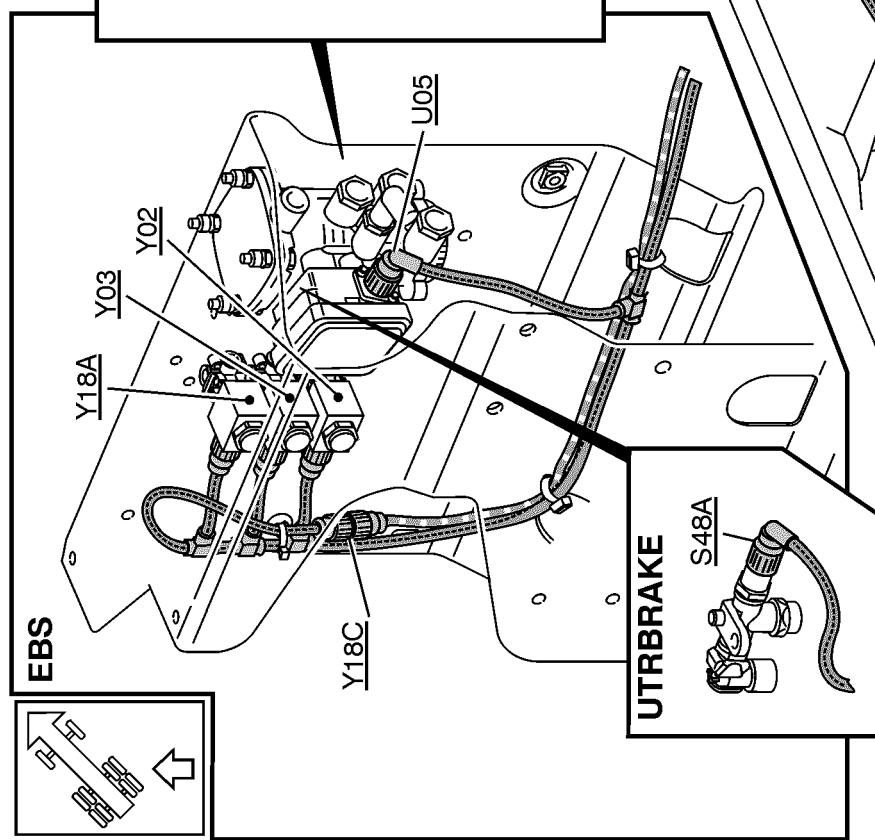
T3029527

1401, BBOX-EF

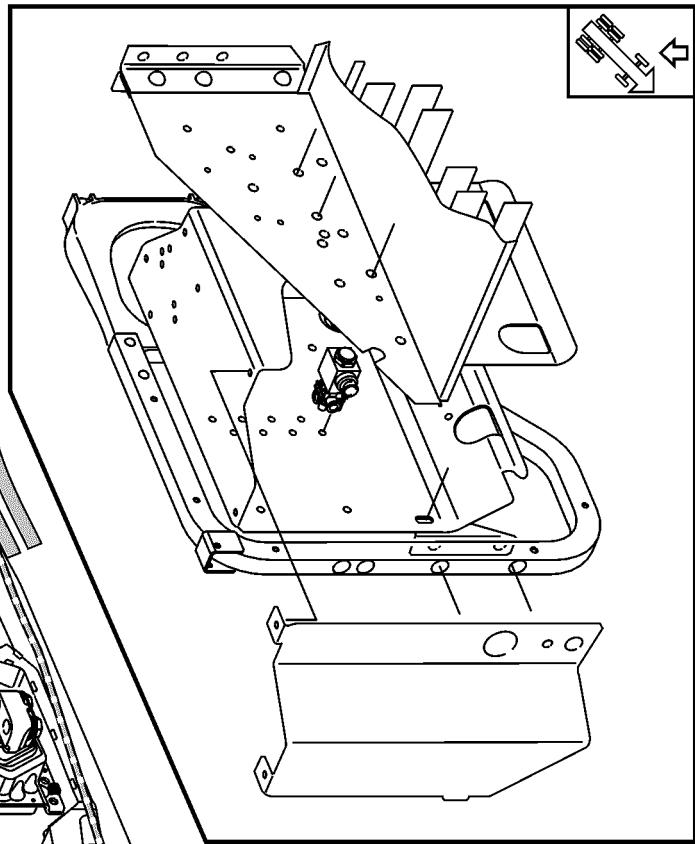


T3021585

1401, FAA20

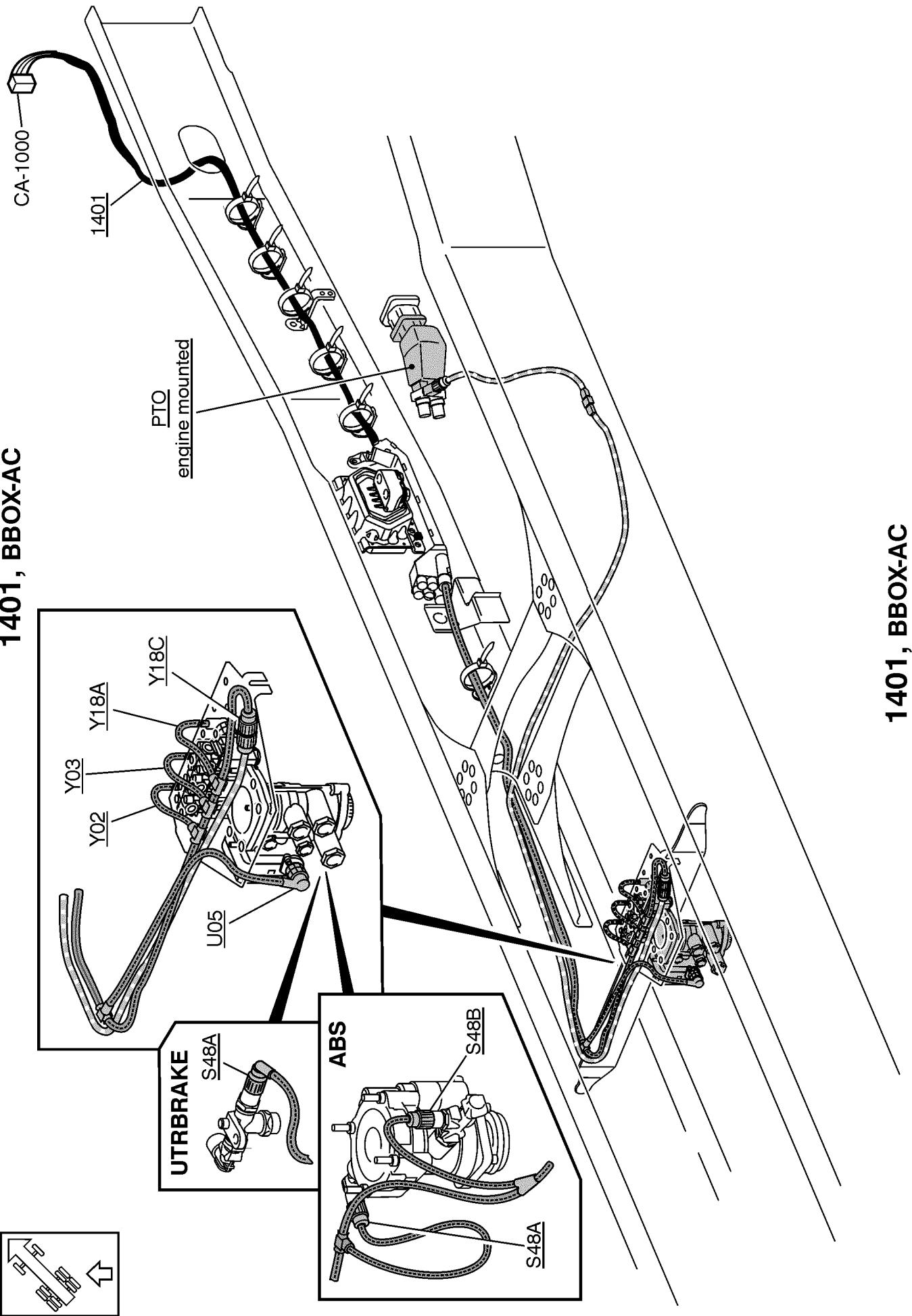


1401, FAA20

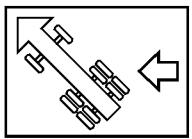


T3029528

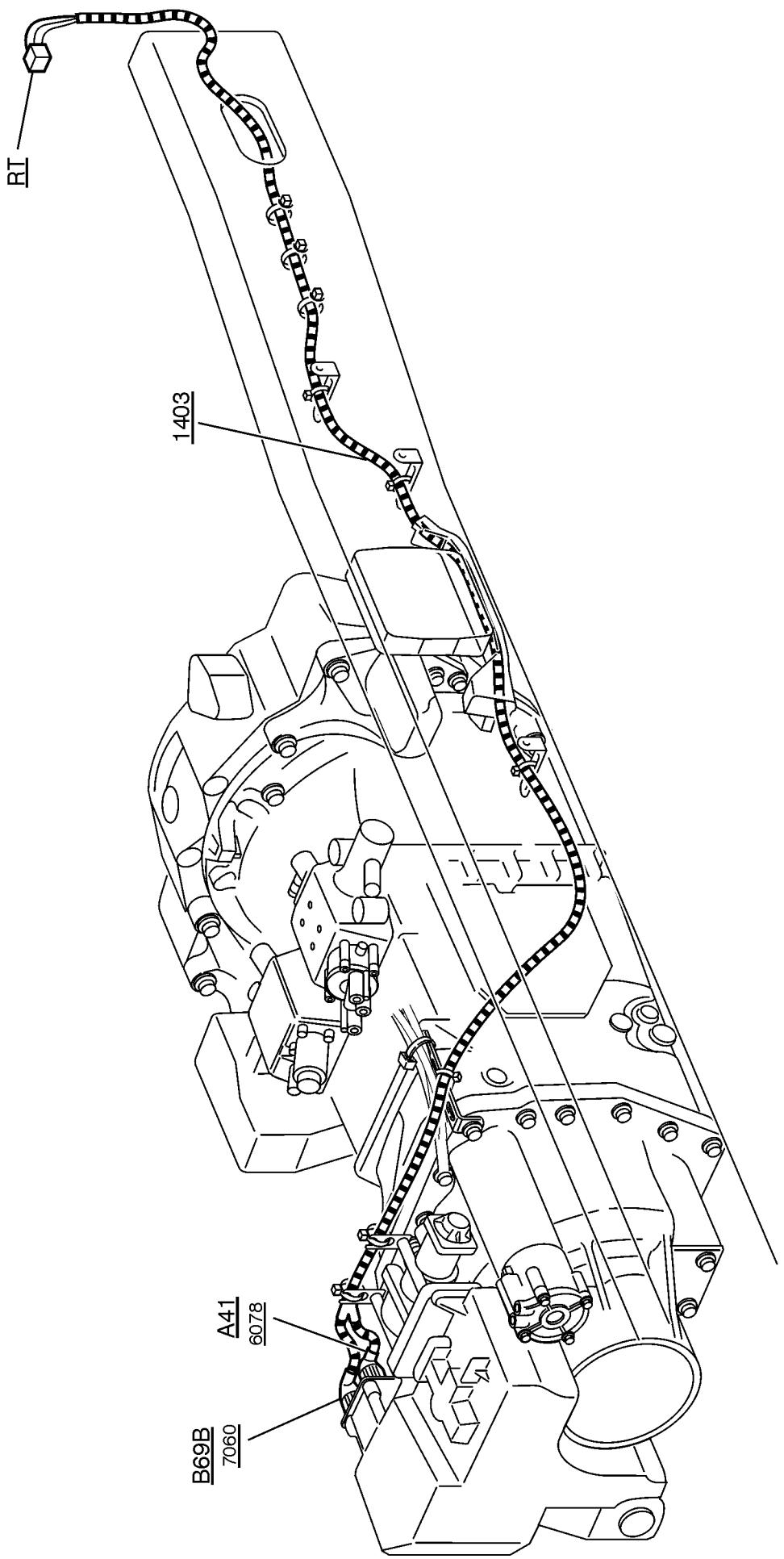
1401, BBOX-AC



T3029529



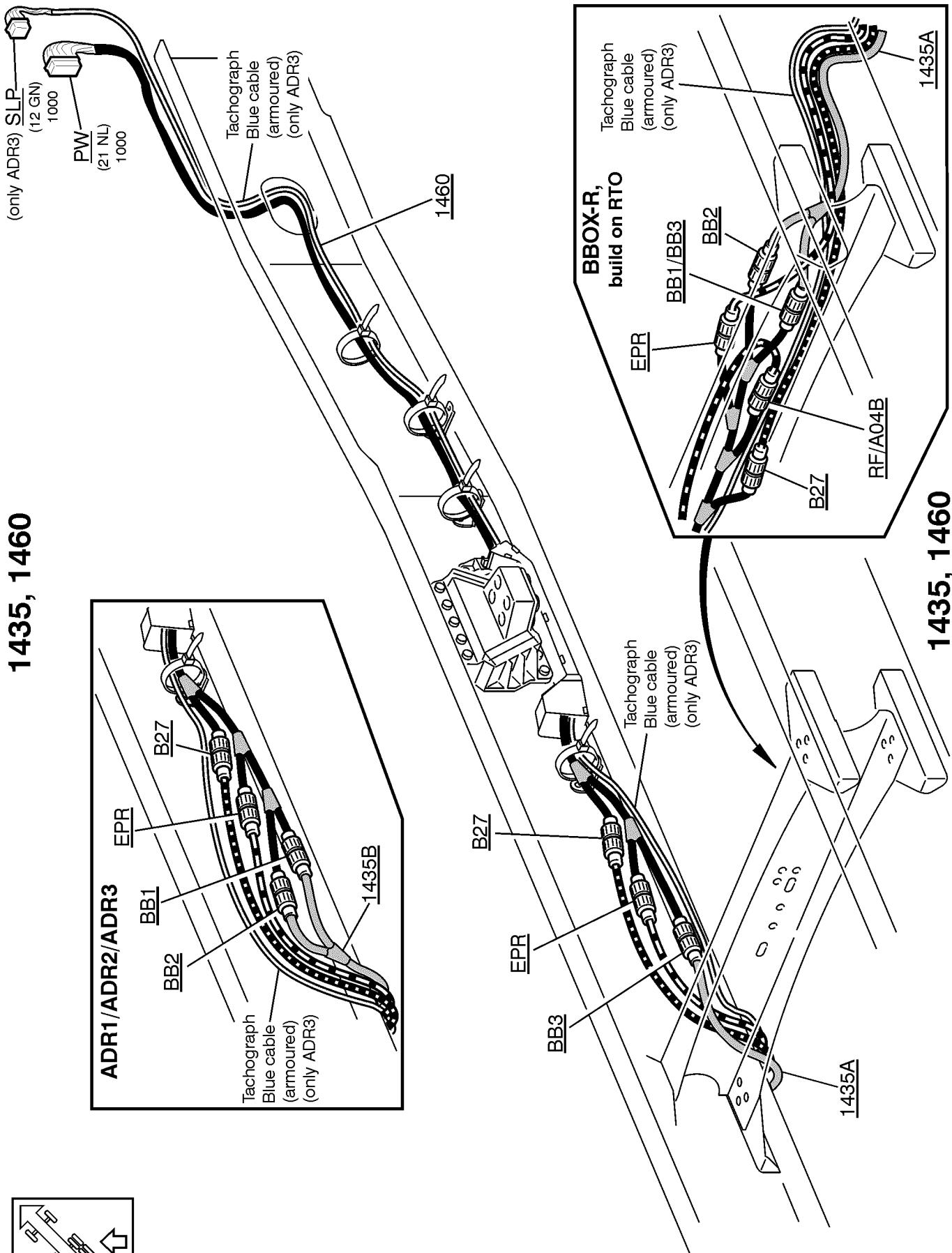
1403



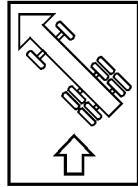
1403

T3015884

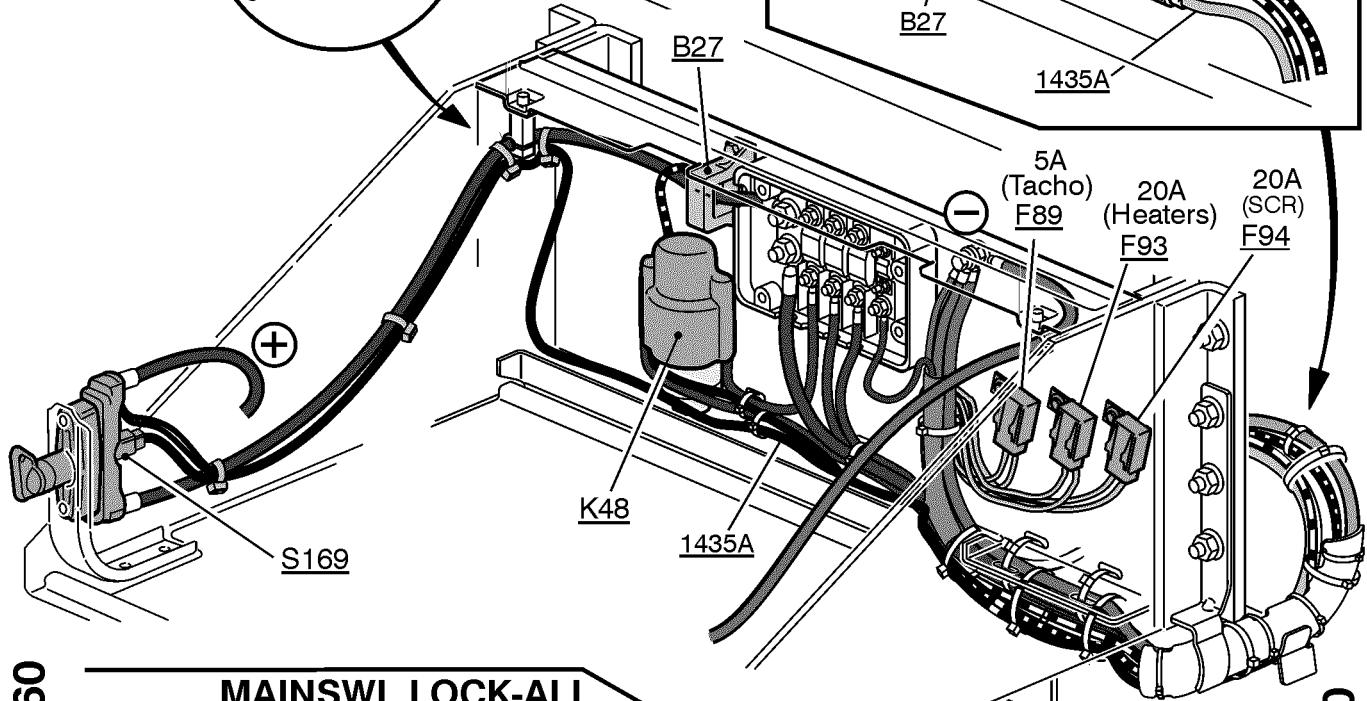
1435, 1460



T3022036



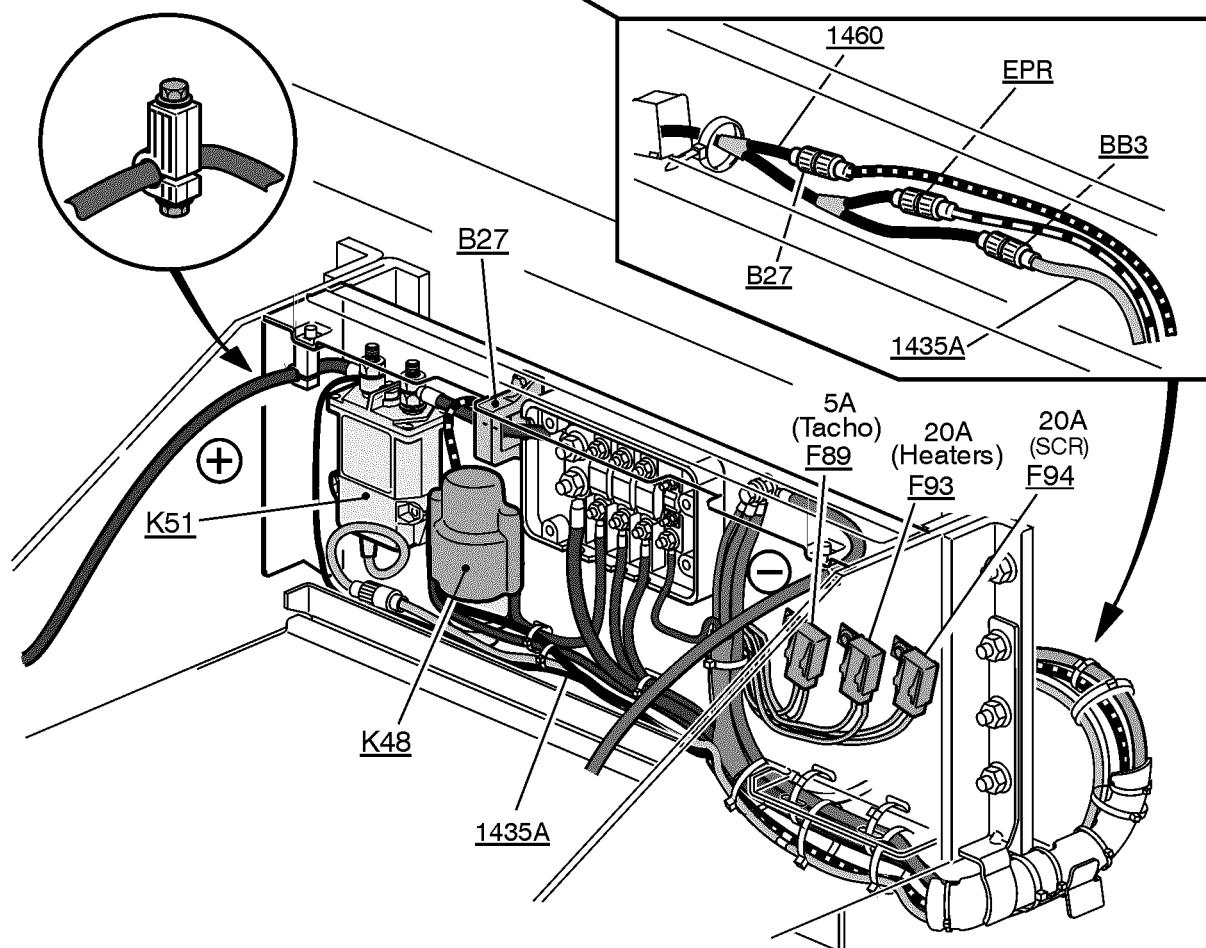
**UADR
Not for LOCK-ALL**



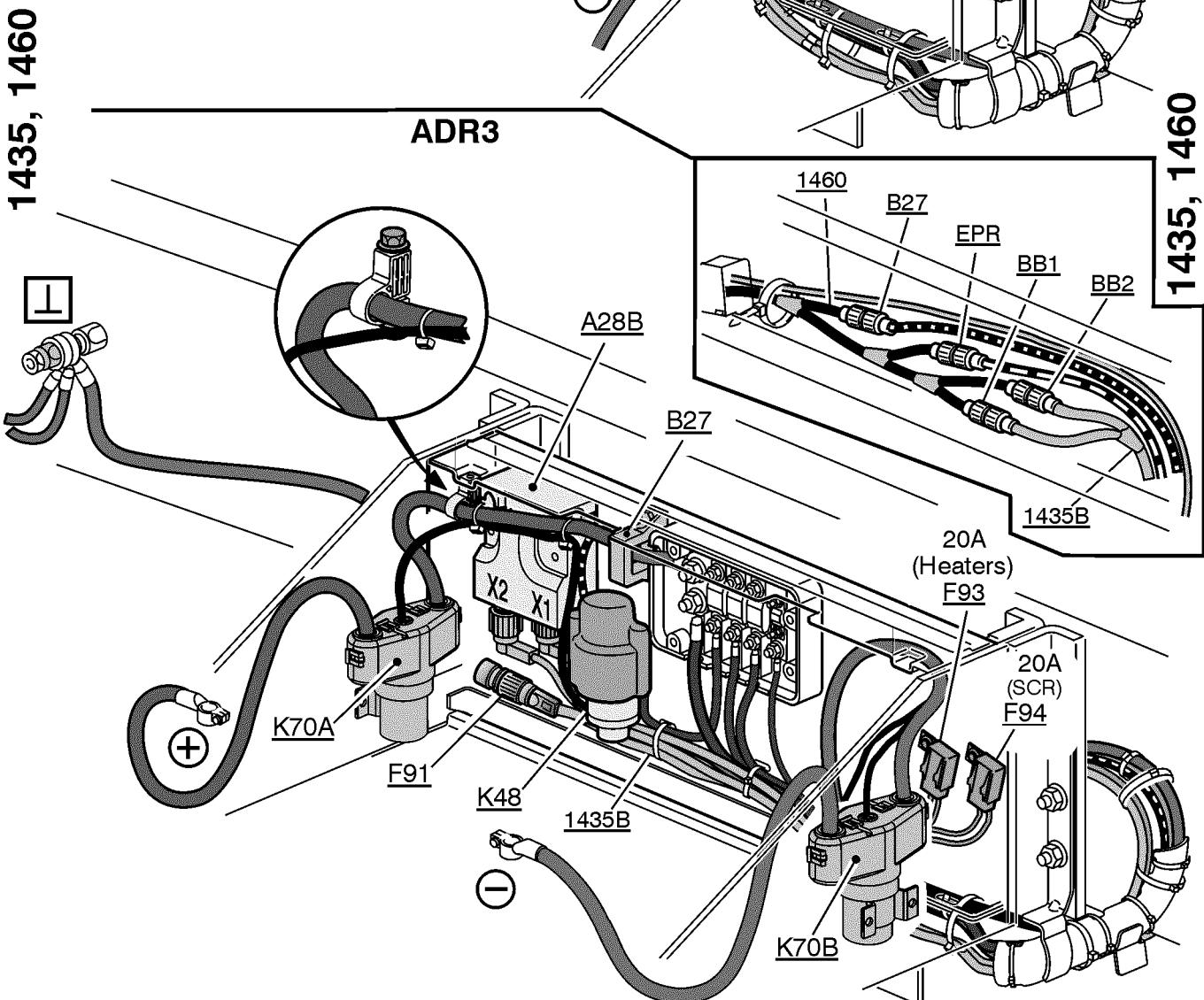
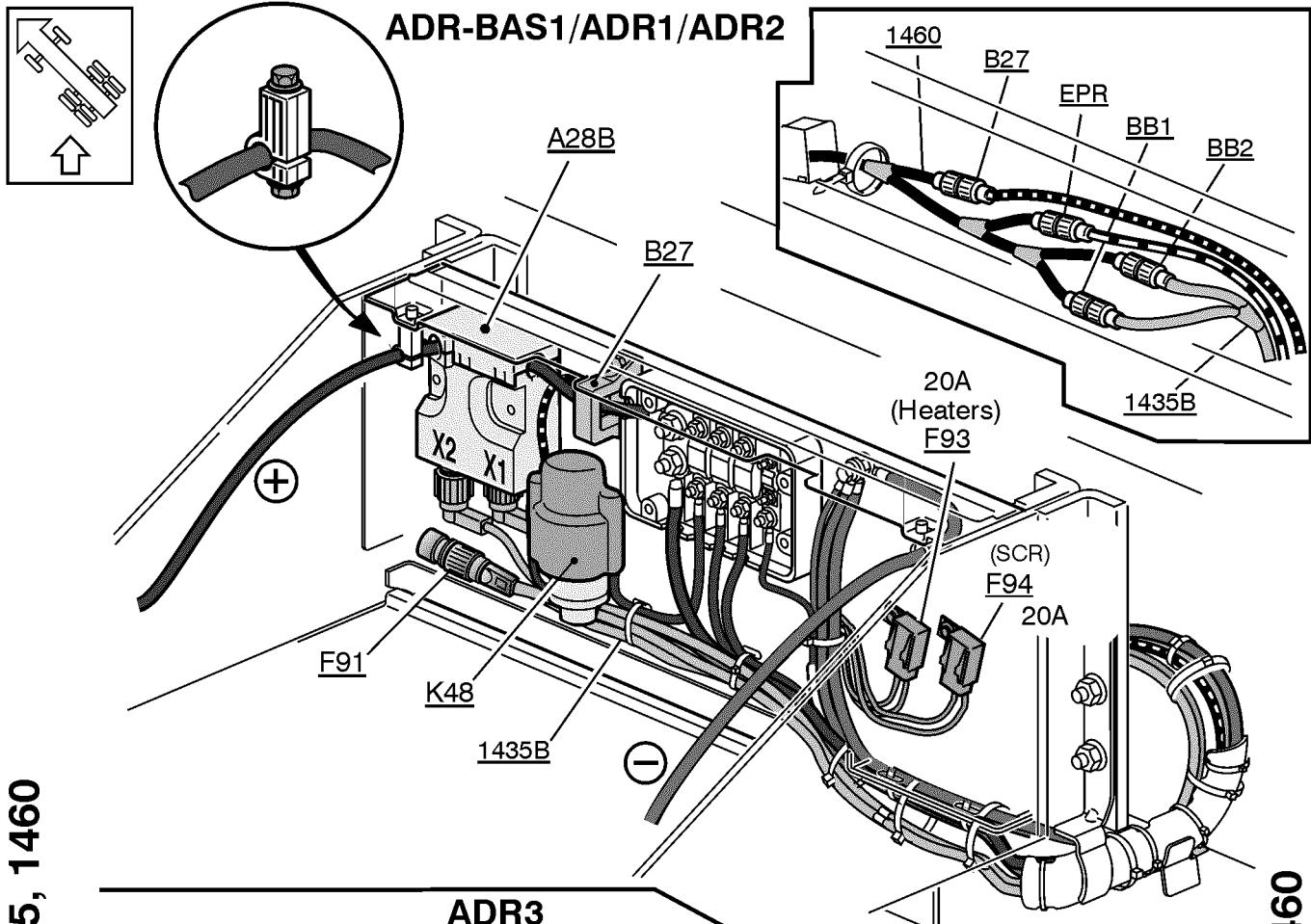
1435, 1460

MAINSWI, LOCK-ALL

1435, 1460

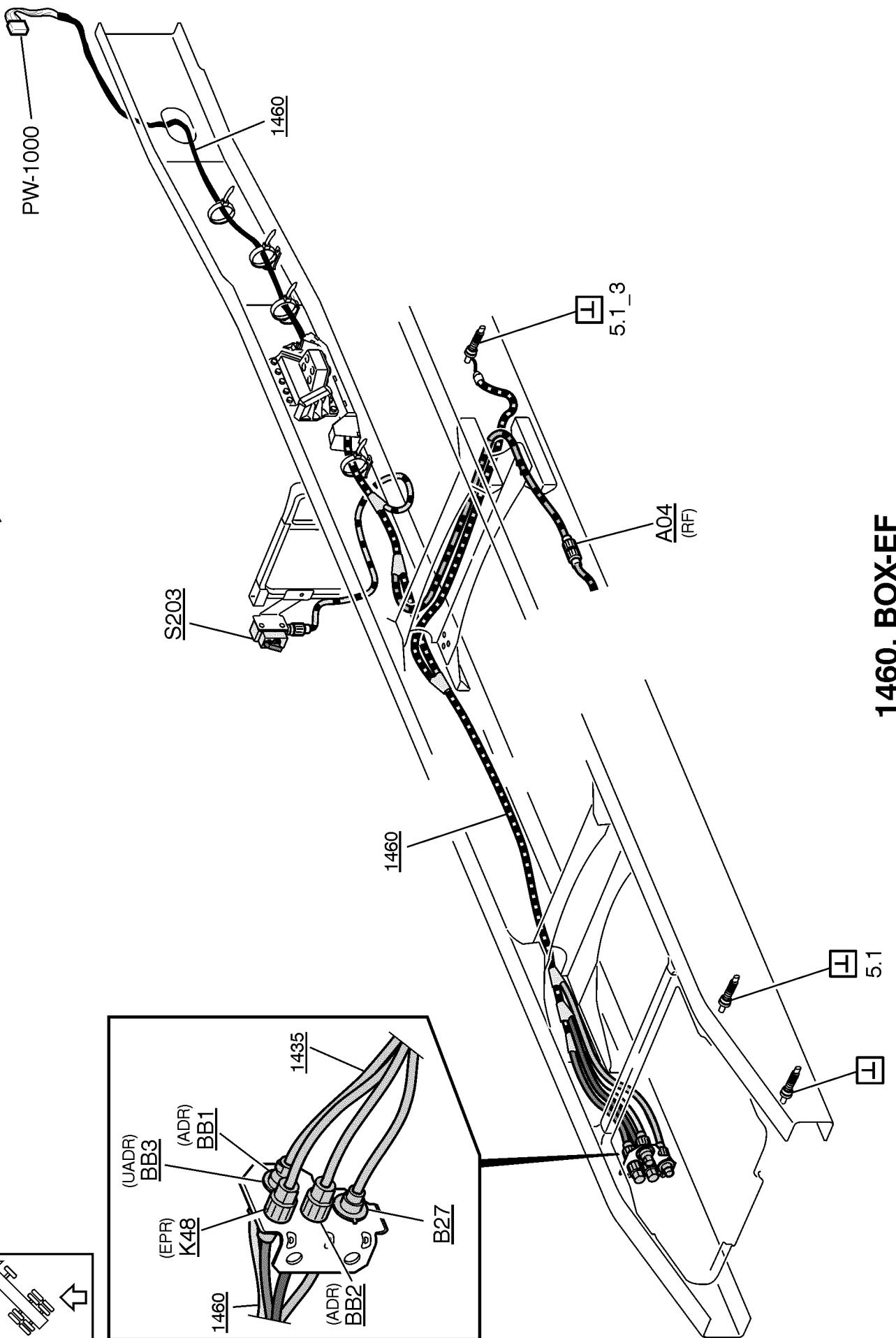


T3022037

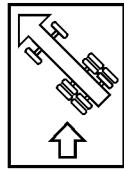


T3022038

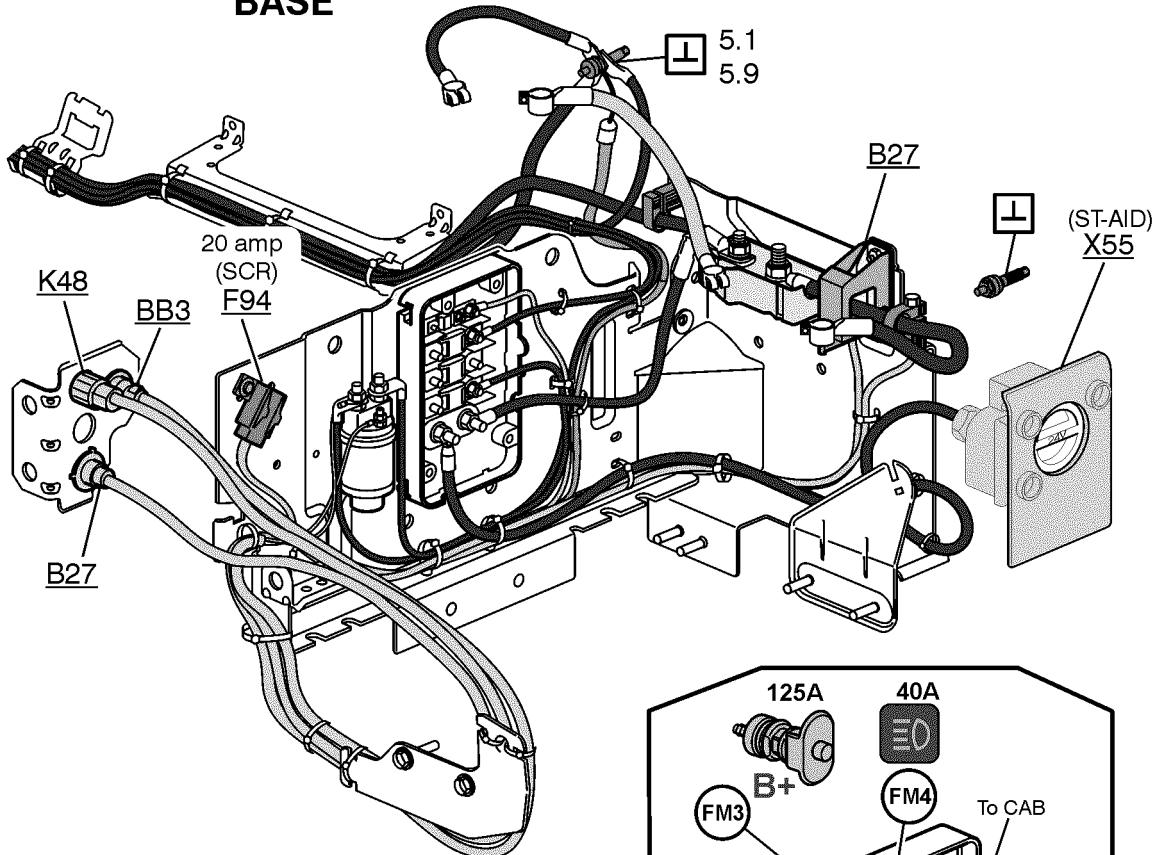
1460, BOX-EF



T3068087

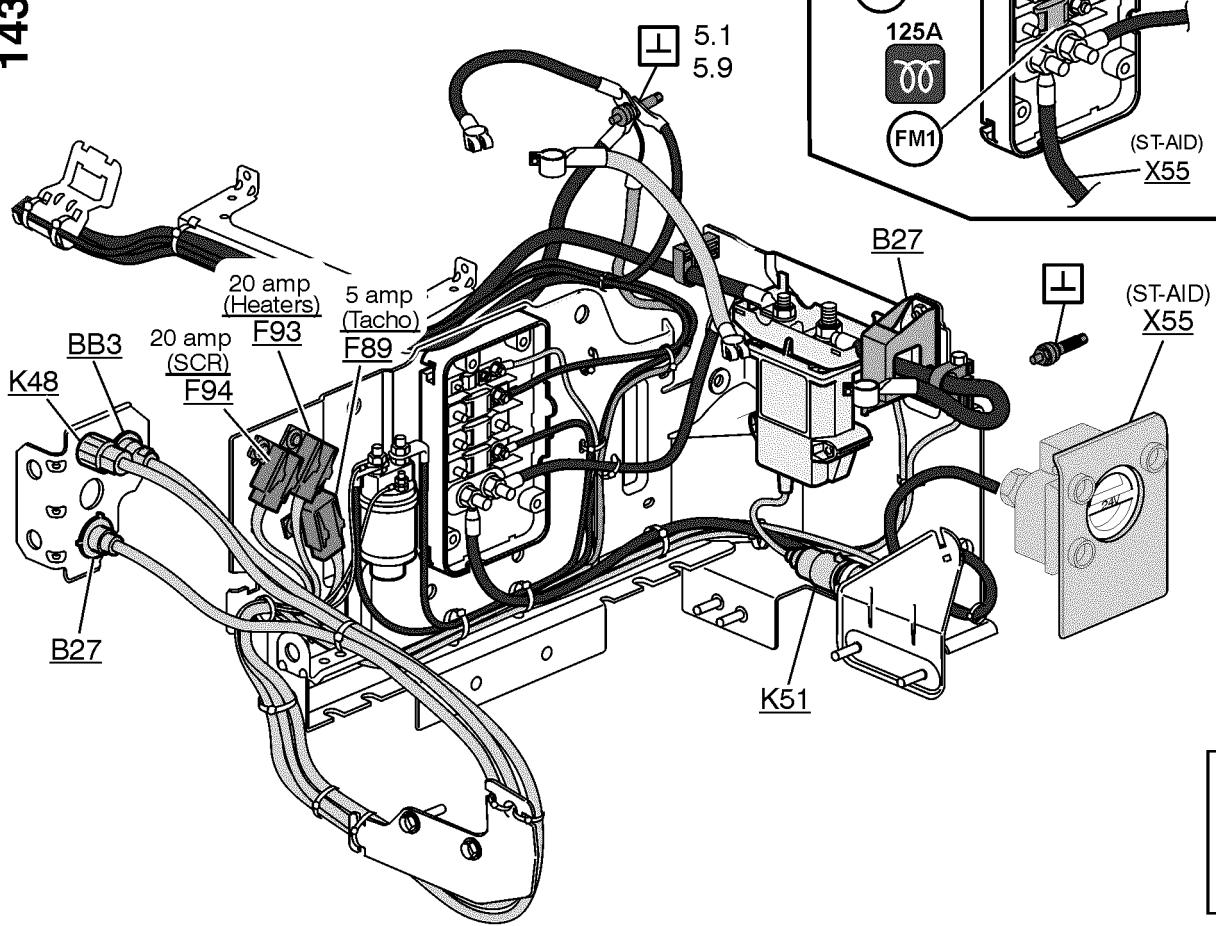


BASE



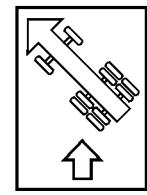
1435, BBOX-EF

LOCK-ALL

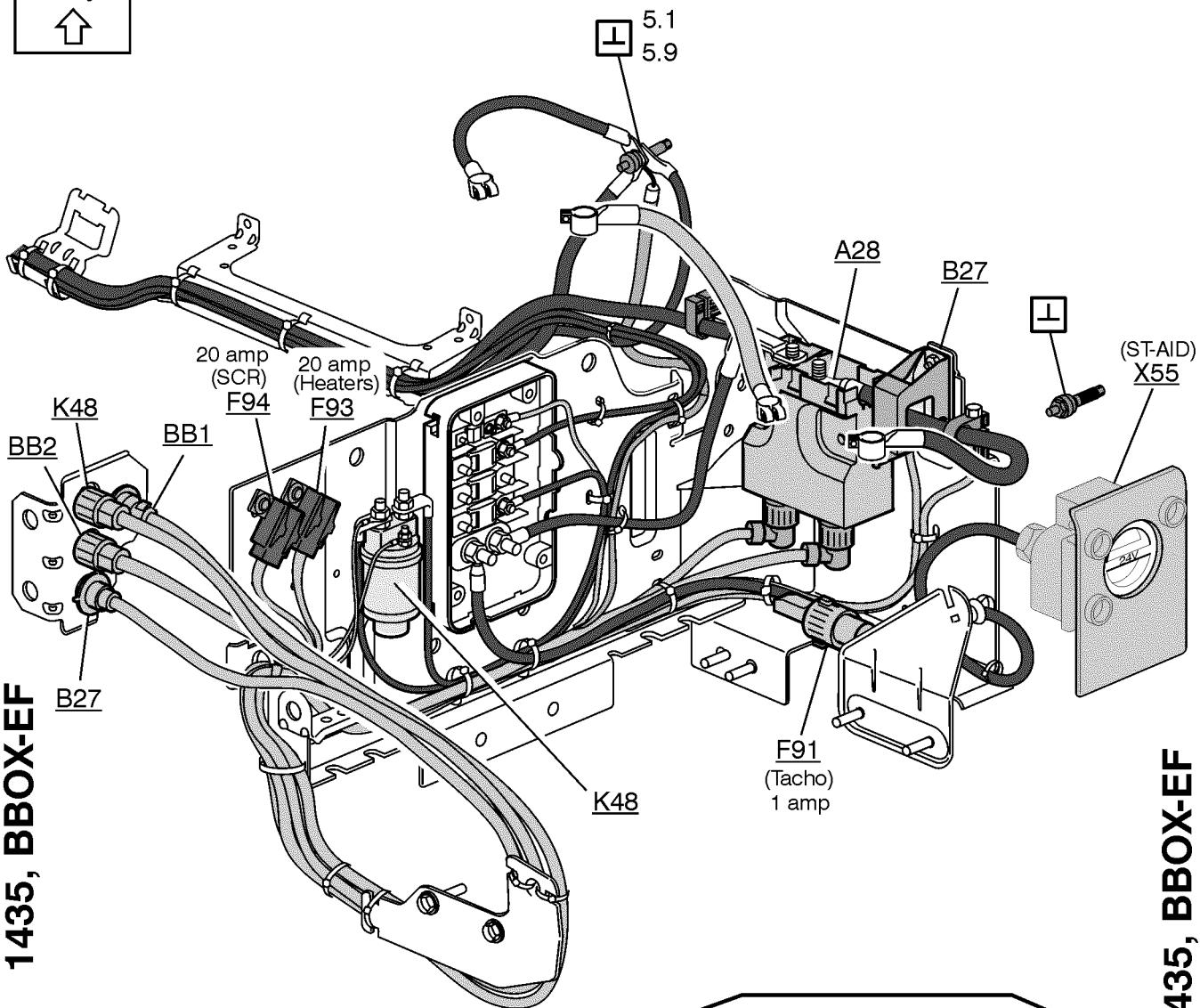


1435, BBOX-EF

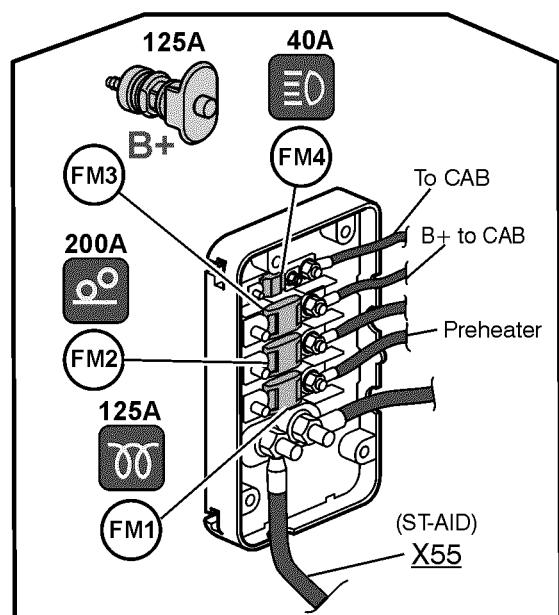
1435, BBOX-EF



ADR

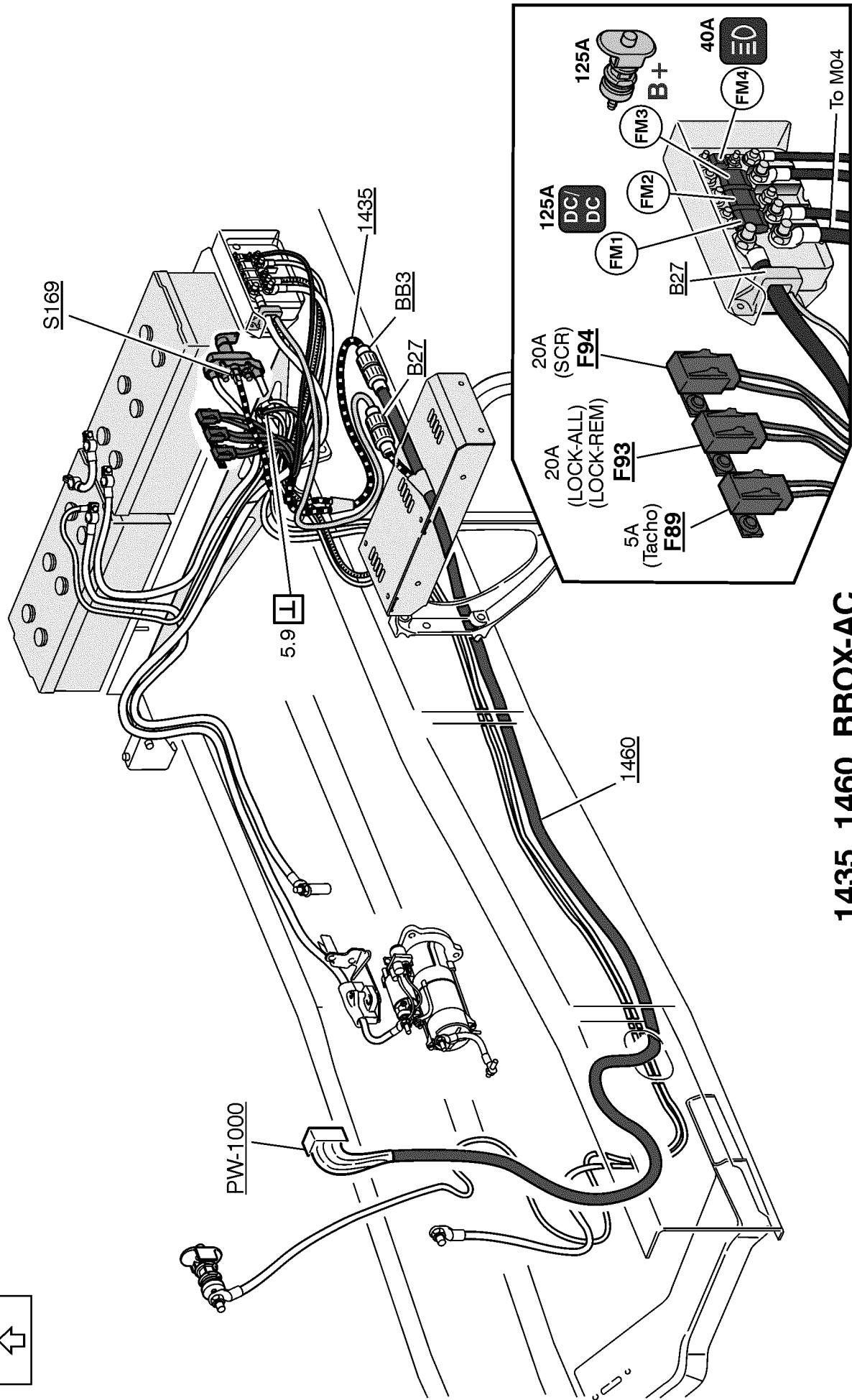


1435, BBOX-EF

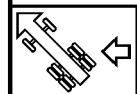
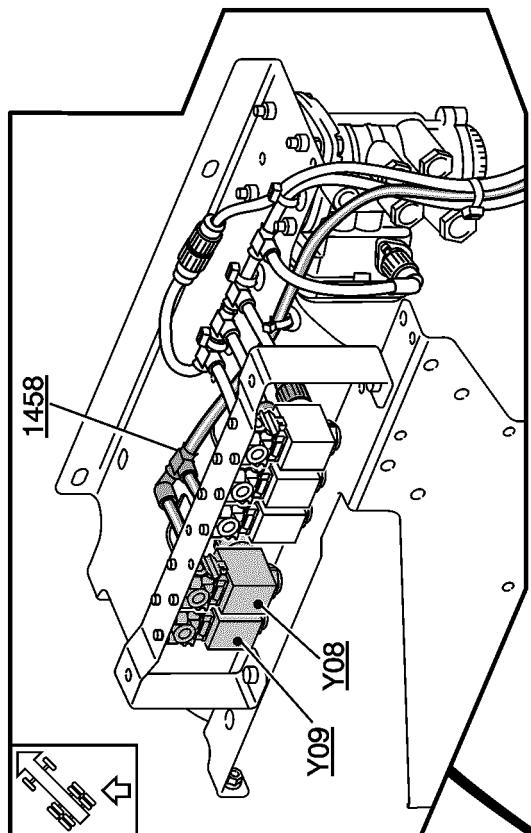
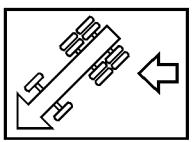


T3068088

1435, 1460, BBOX-AC



T3020633



1458

AWD
(12 GN)
1000



1458

(Thermoline)
R46

S53

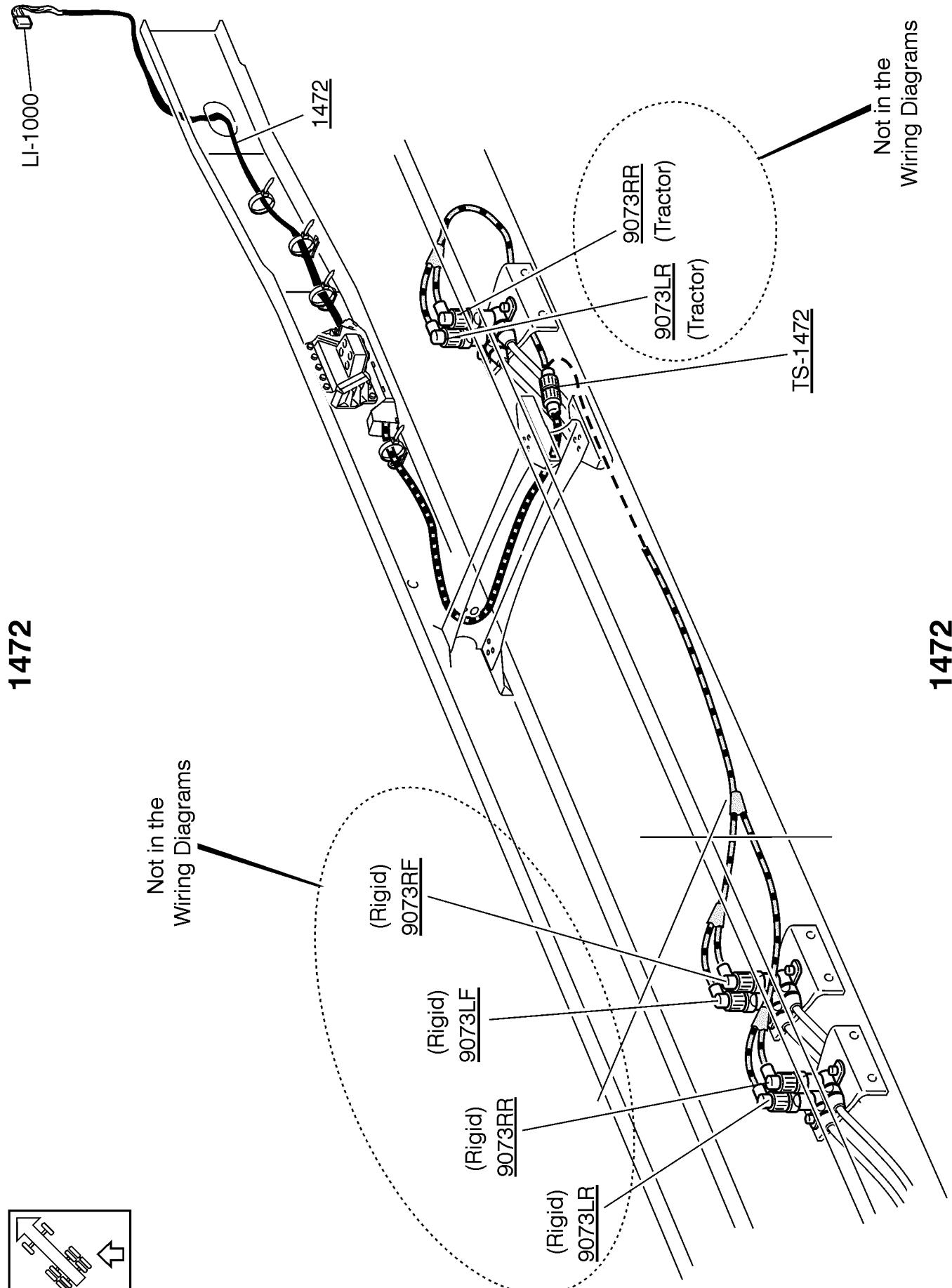
Y08

Y09

S54

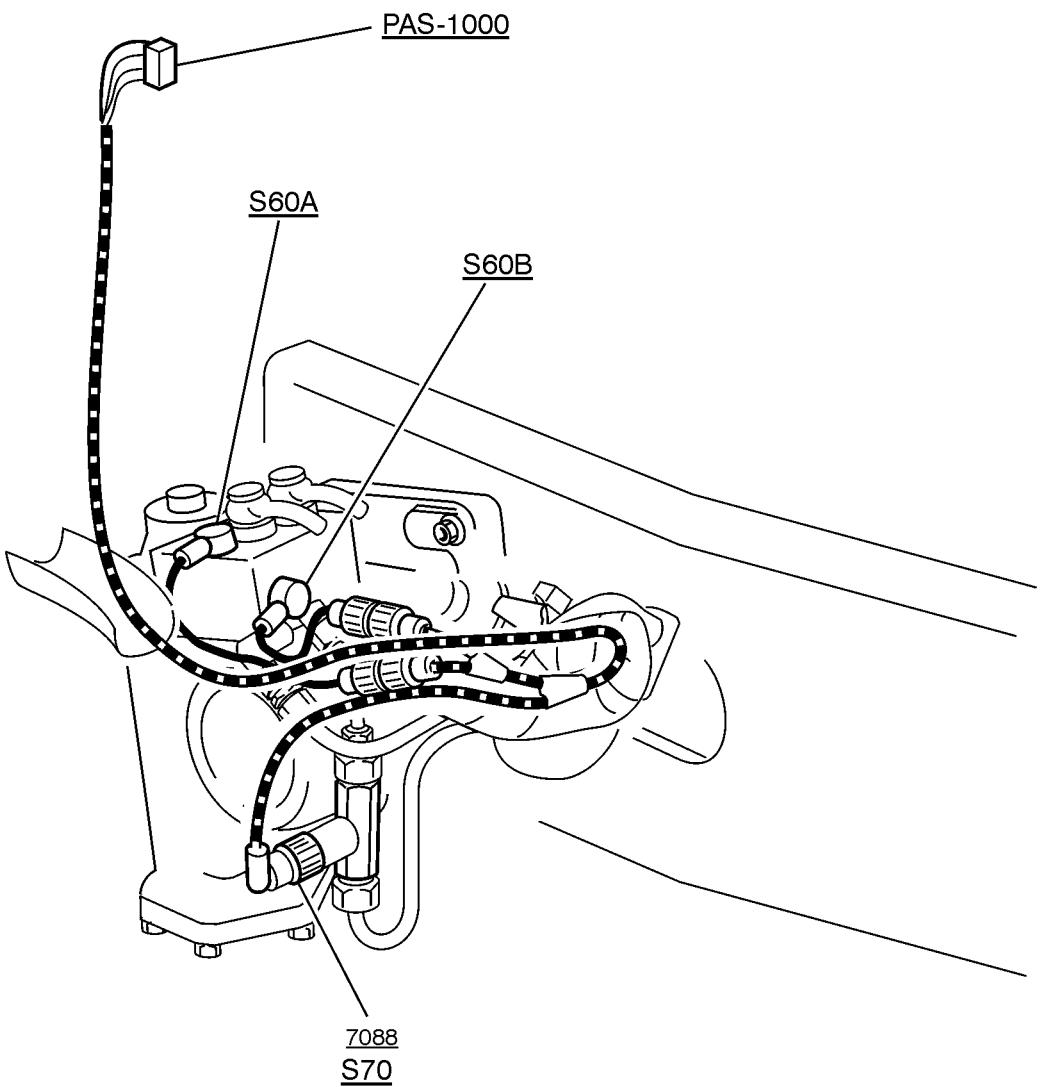
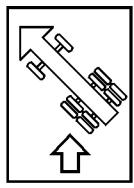
1458

T3022039



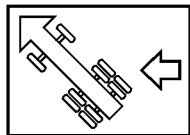
T3016441

1493 LHD, PSS-DUAL

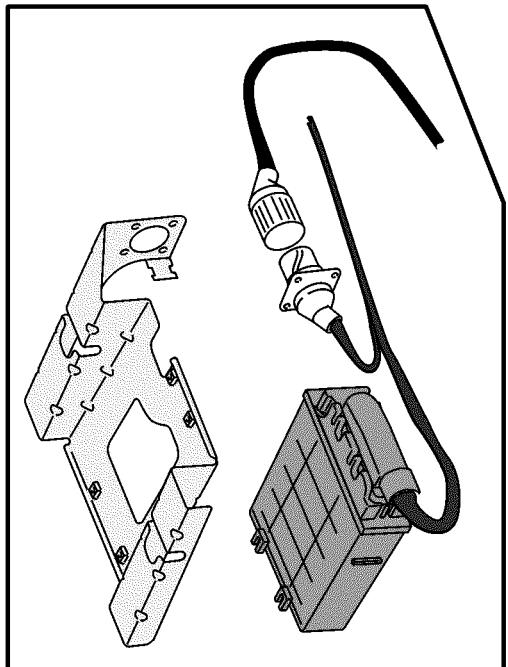


1493 LHD, PSS-DUAL

T3019023



1493 A/B, RSTS-EHY, RAPD-A6



1000
(9 V)
AS

1493-B

A59

AS12

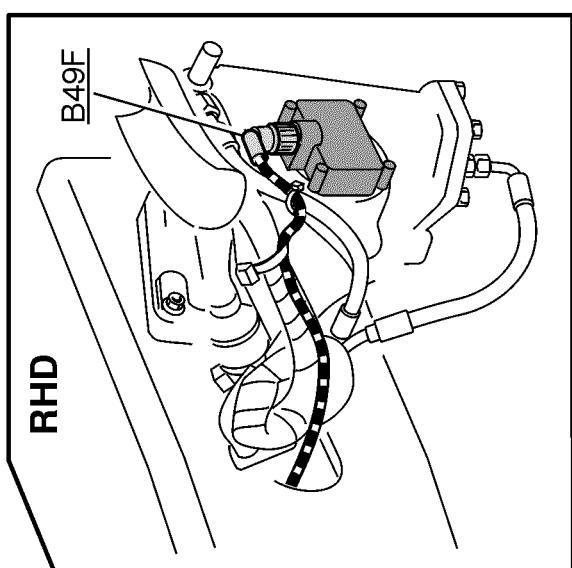
B49F

B10C

Y53

1493-A

B49R

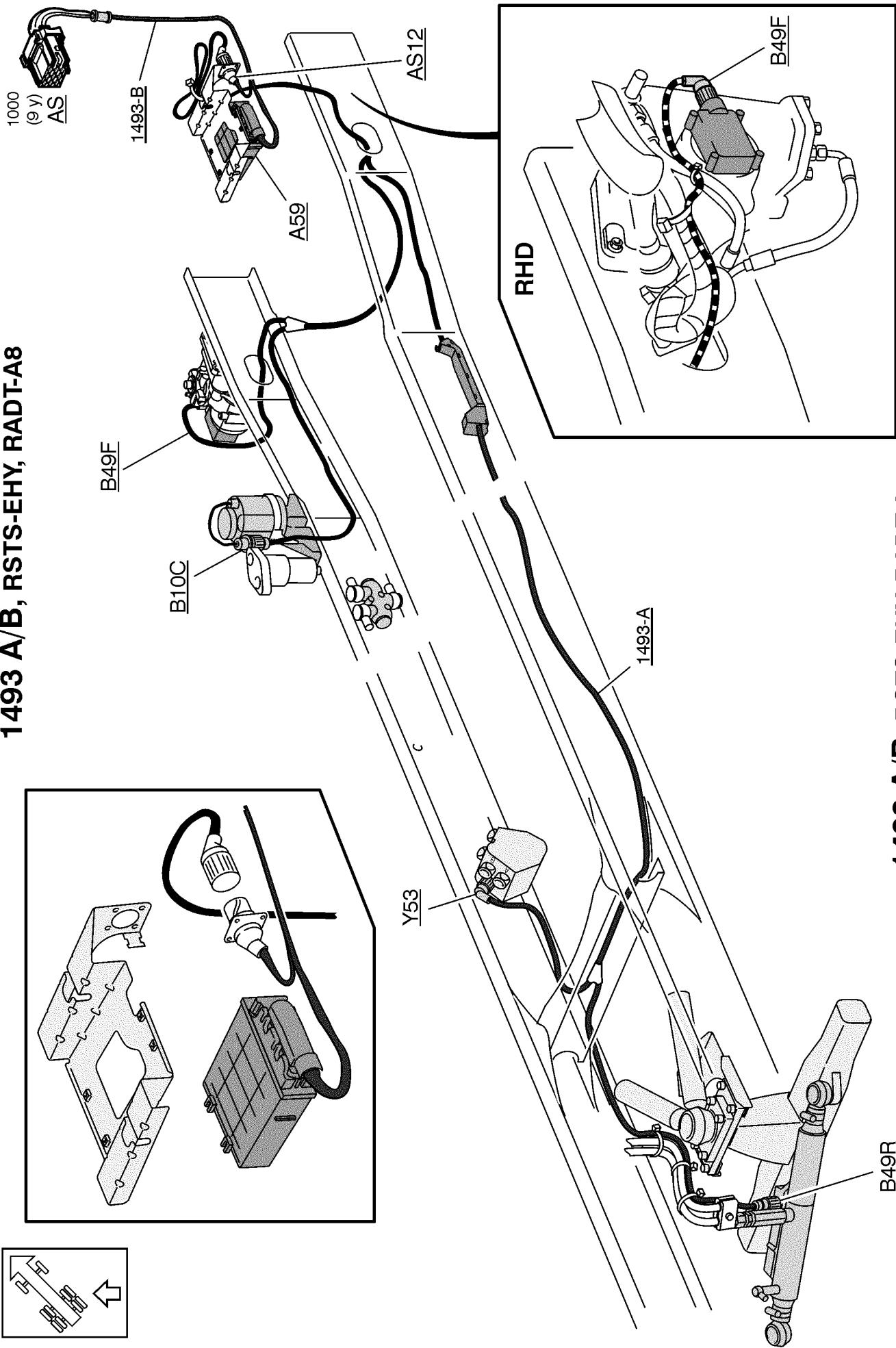


RHD

B49F

1493 A/B, RSTS-EHY, RAPD-A6

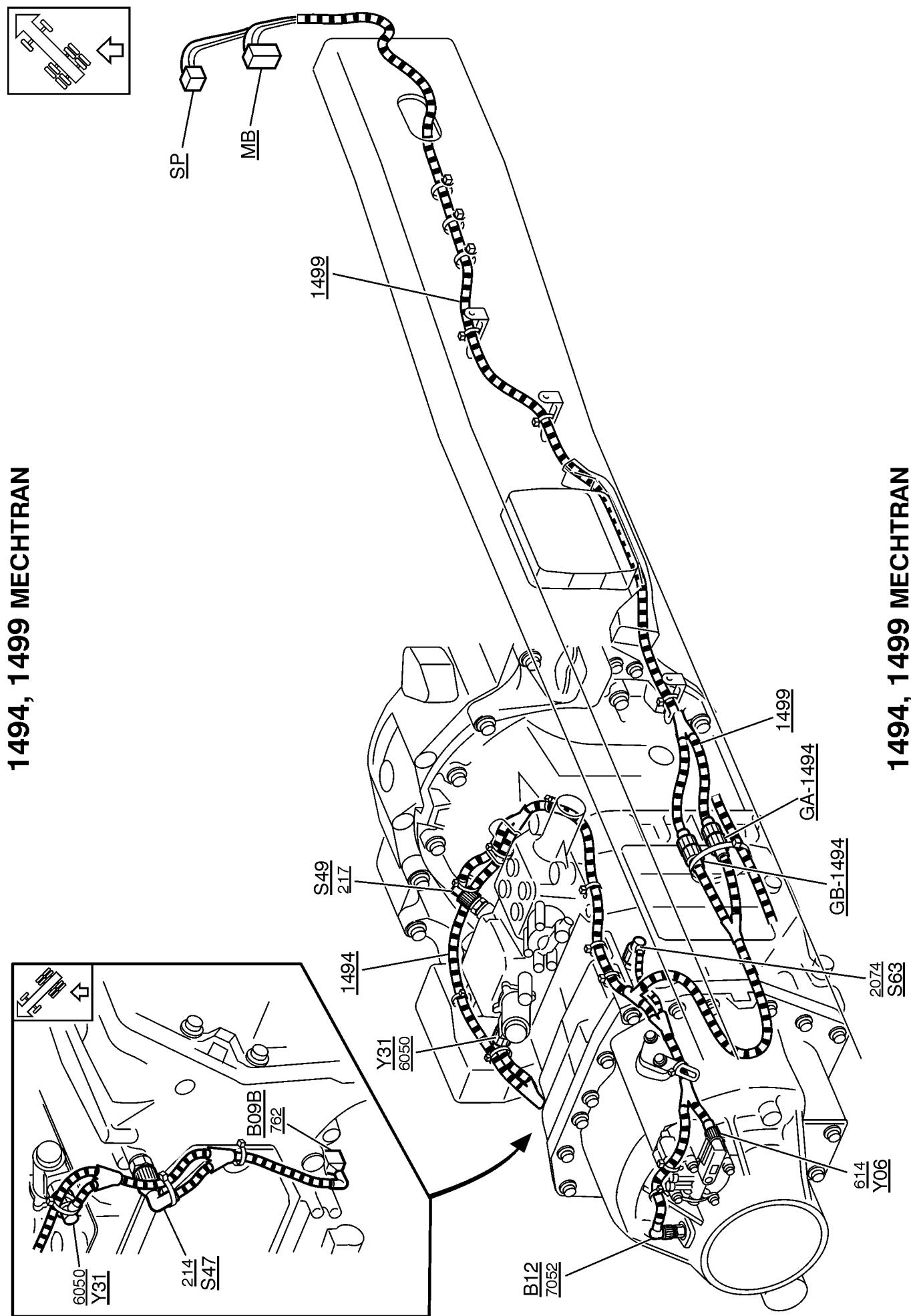
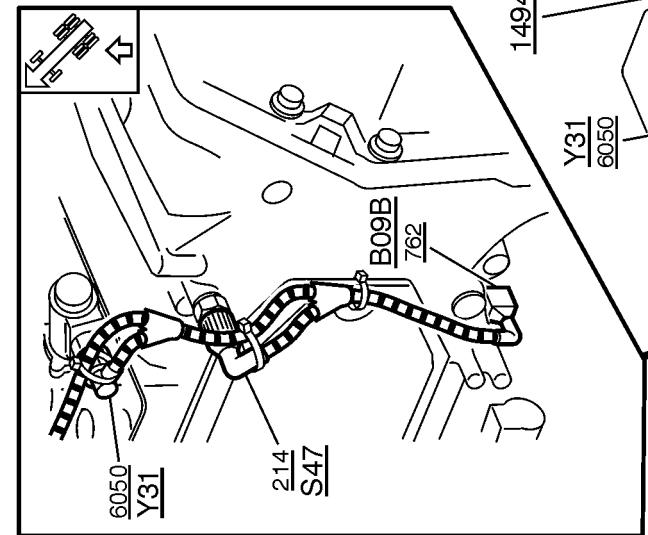
1493 A/B, RSTS-EHY, RADT-A8



1493 A/B, RSTS-EHY, RADT-A8

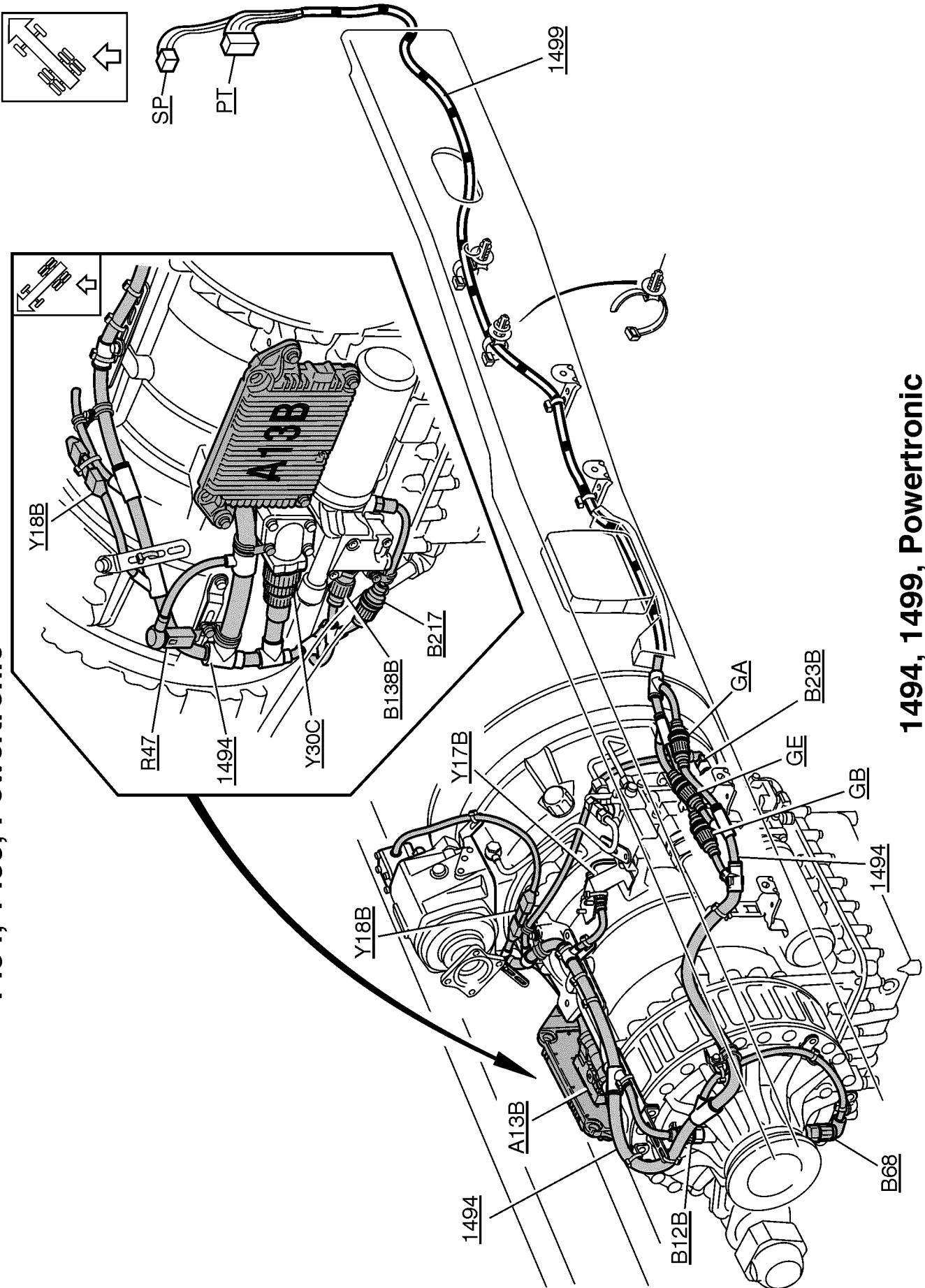
T3059950

1494, 1499 MECHTRAN

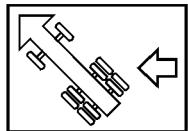


1494, 1499 MECHTRAN

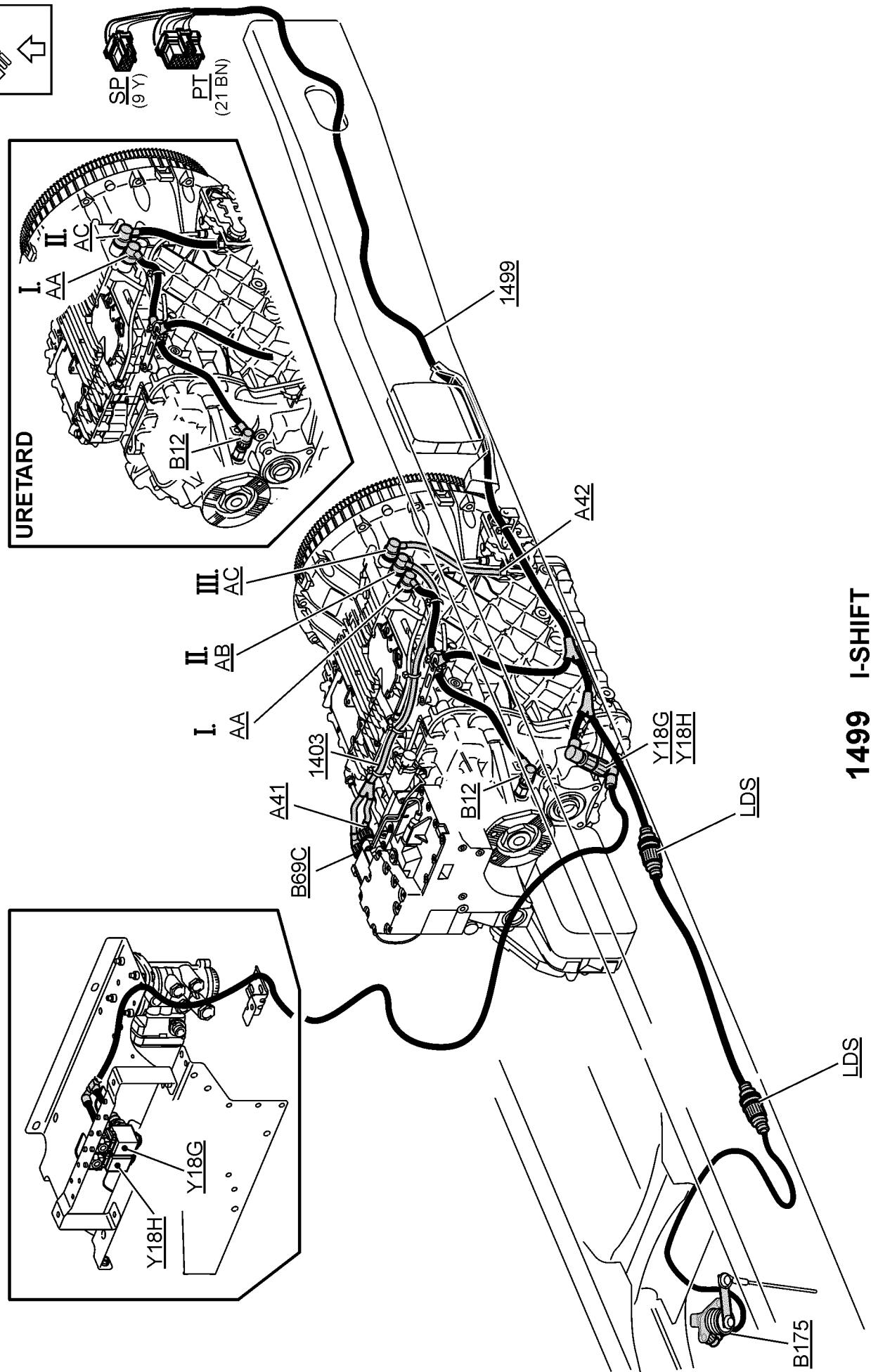
1494, 1499, Powertronic



T3028810

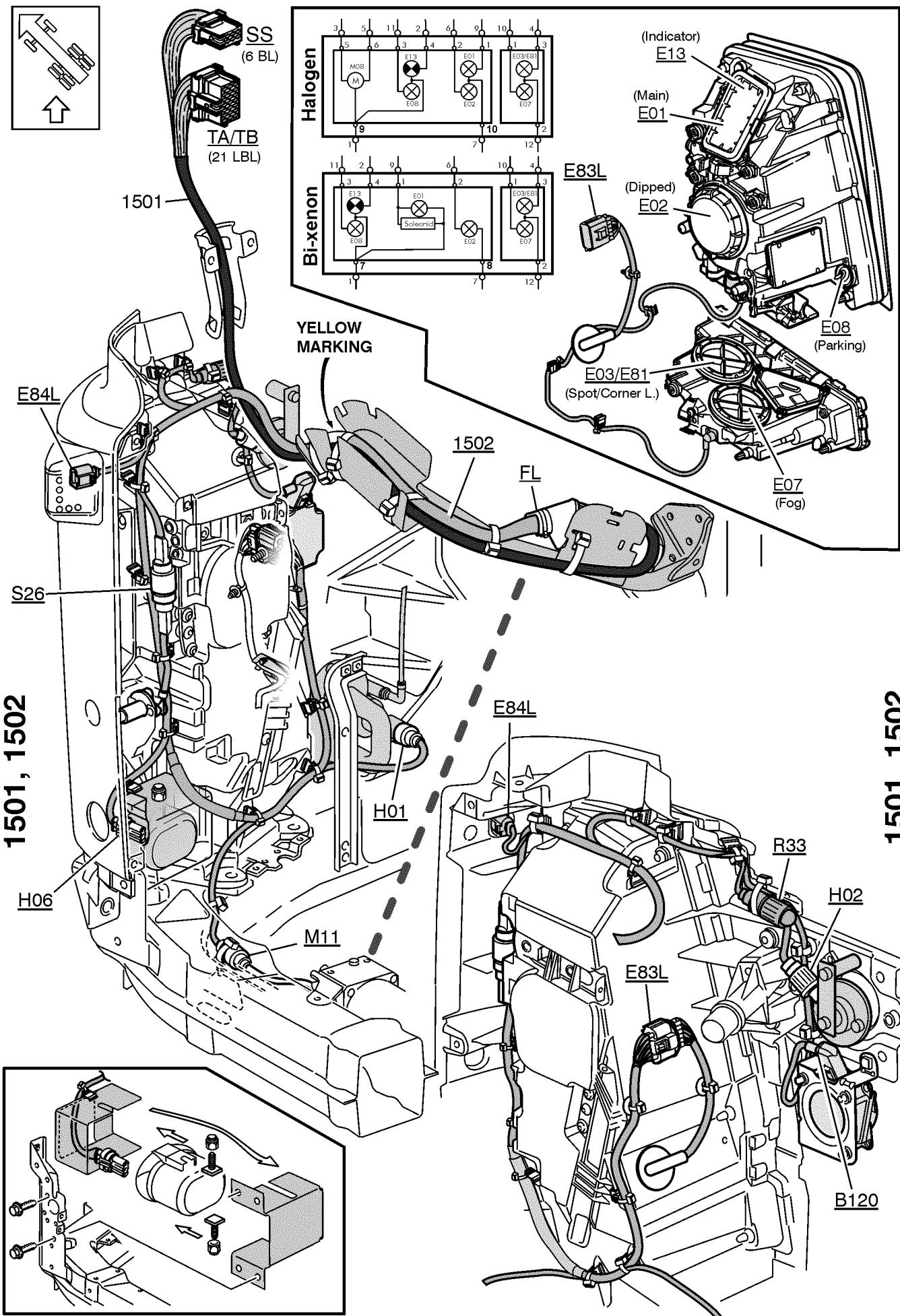


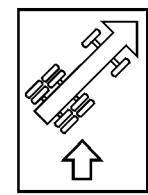
1499 I-SHIFT



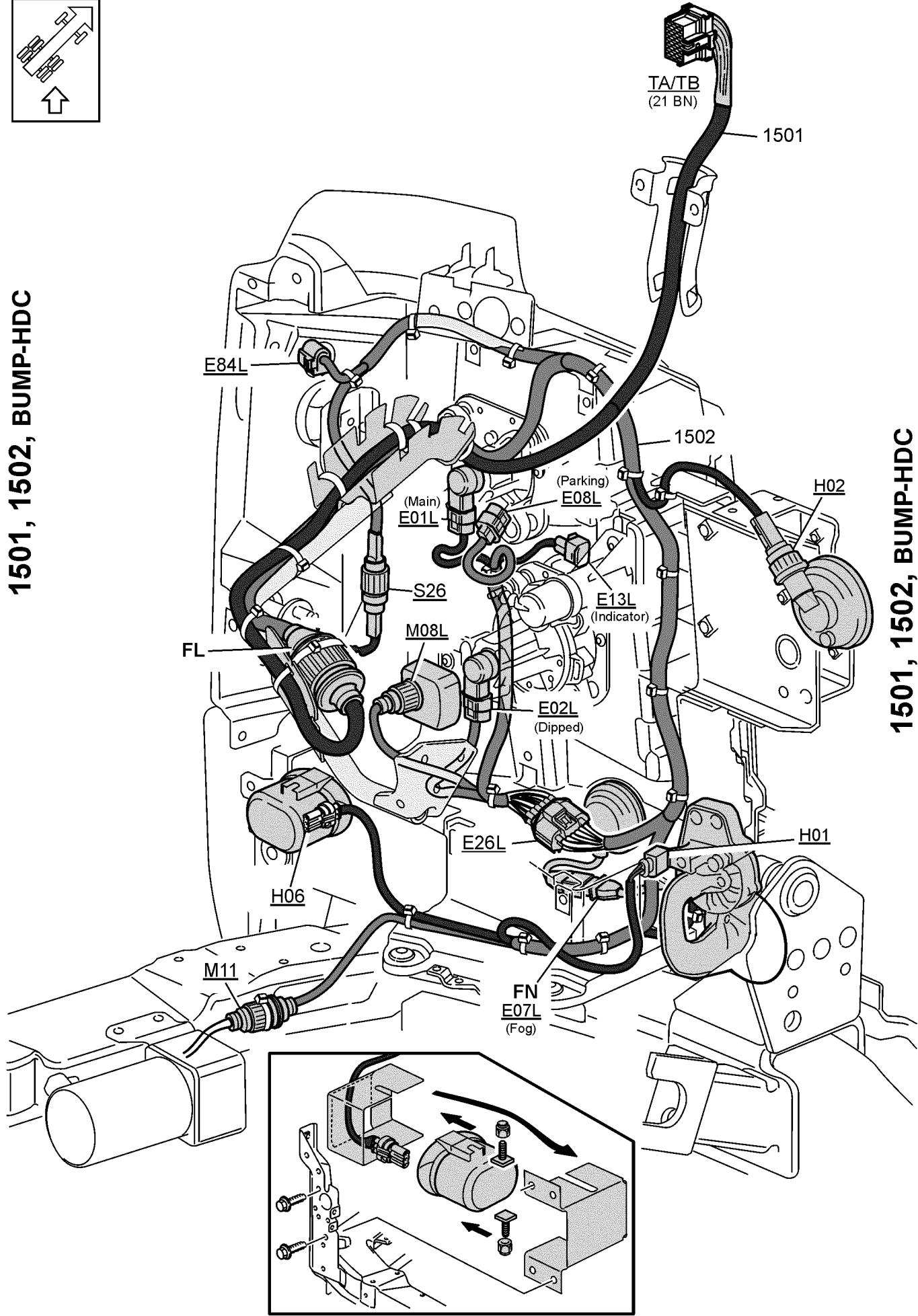
1499 I-SHIFT

T3058383



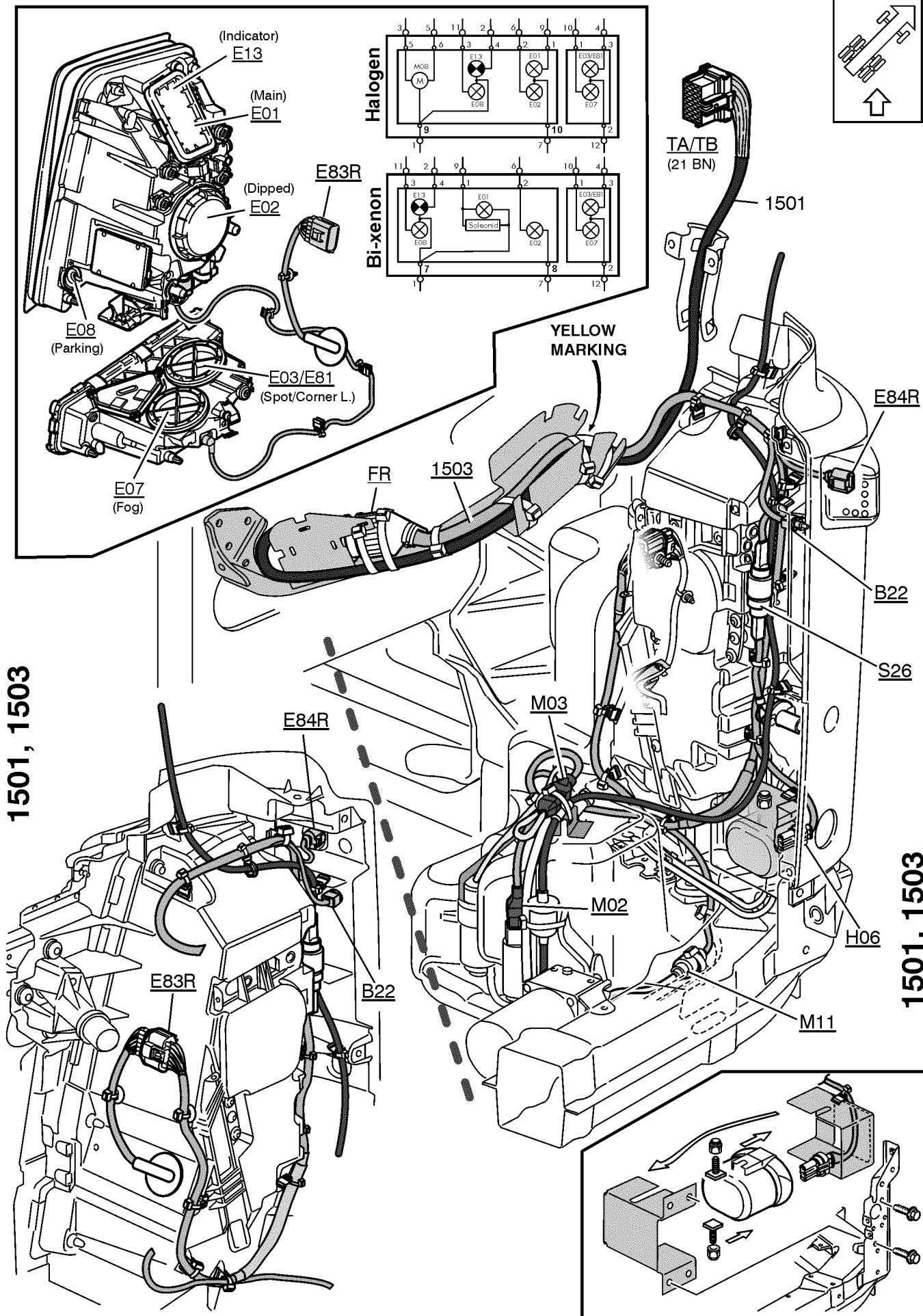


1501, 1502, BUMP-HDC

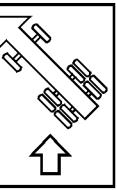
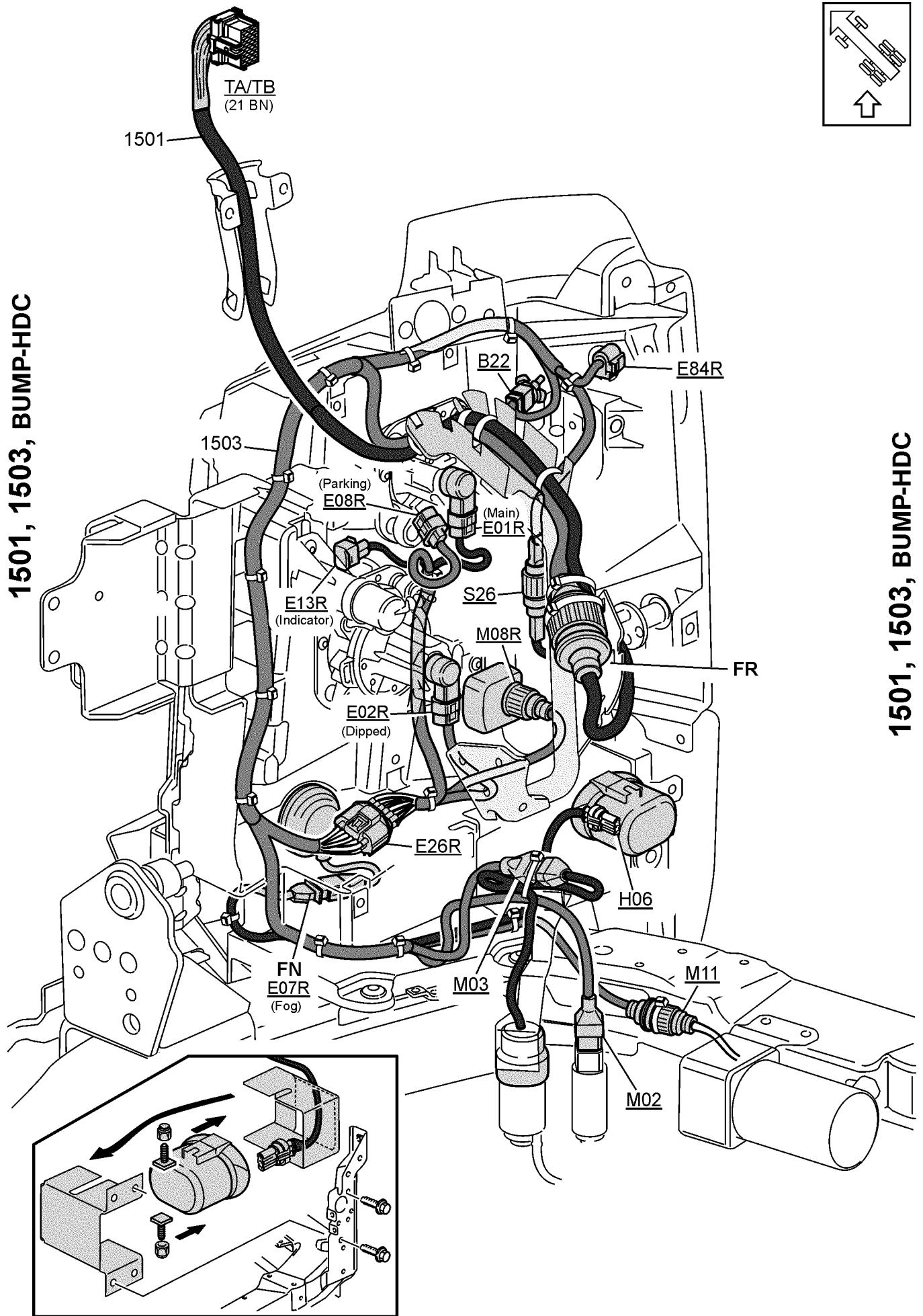


1501, 1502, BUMP-HDC

T3057744

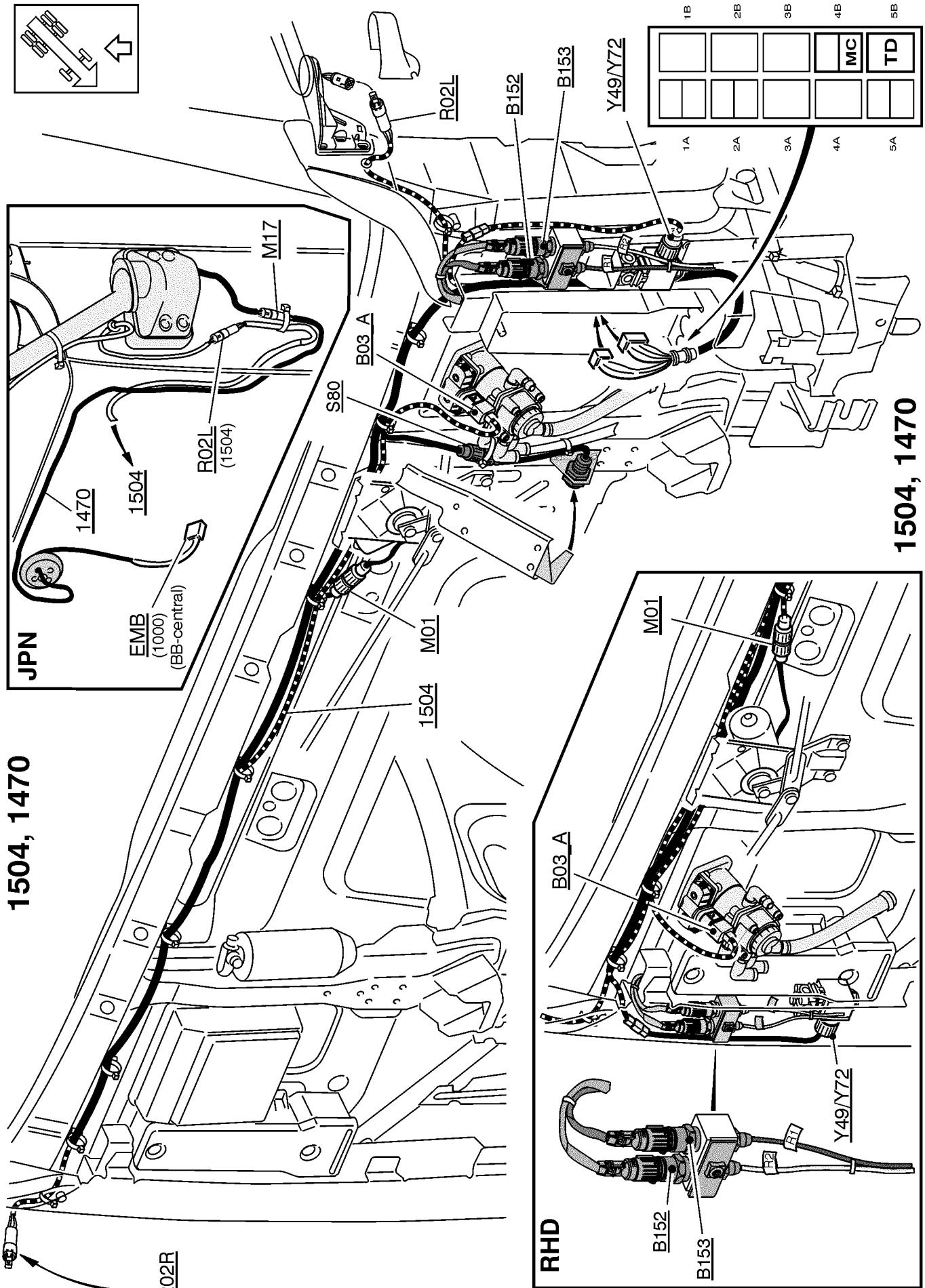


1501, 1503, BUMP-HDC



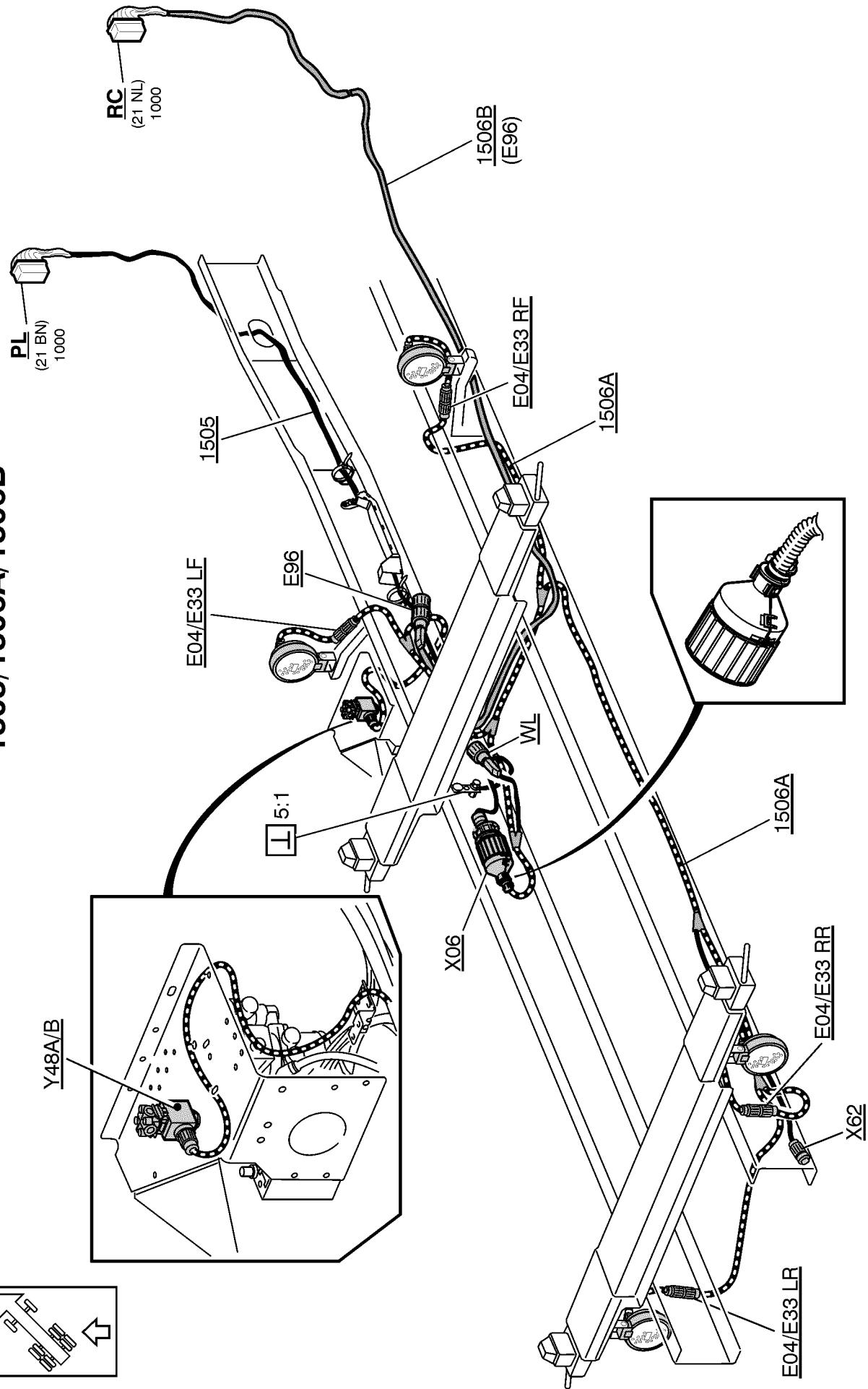
1501, 1503, BUMP-HDC

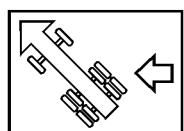
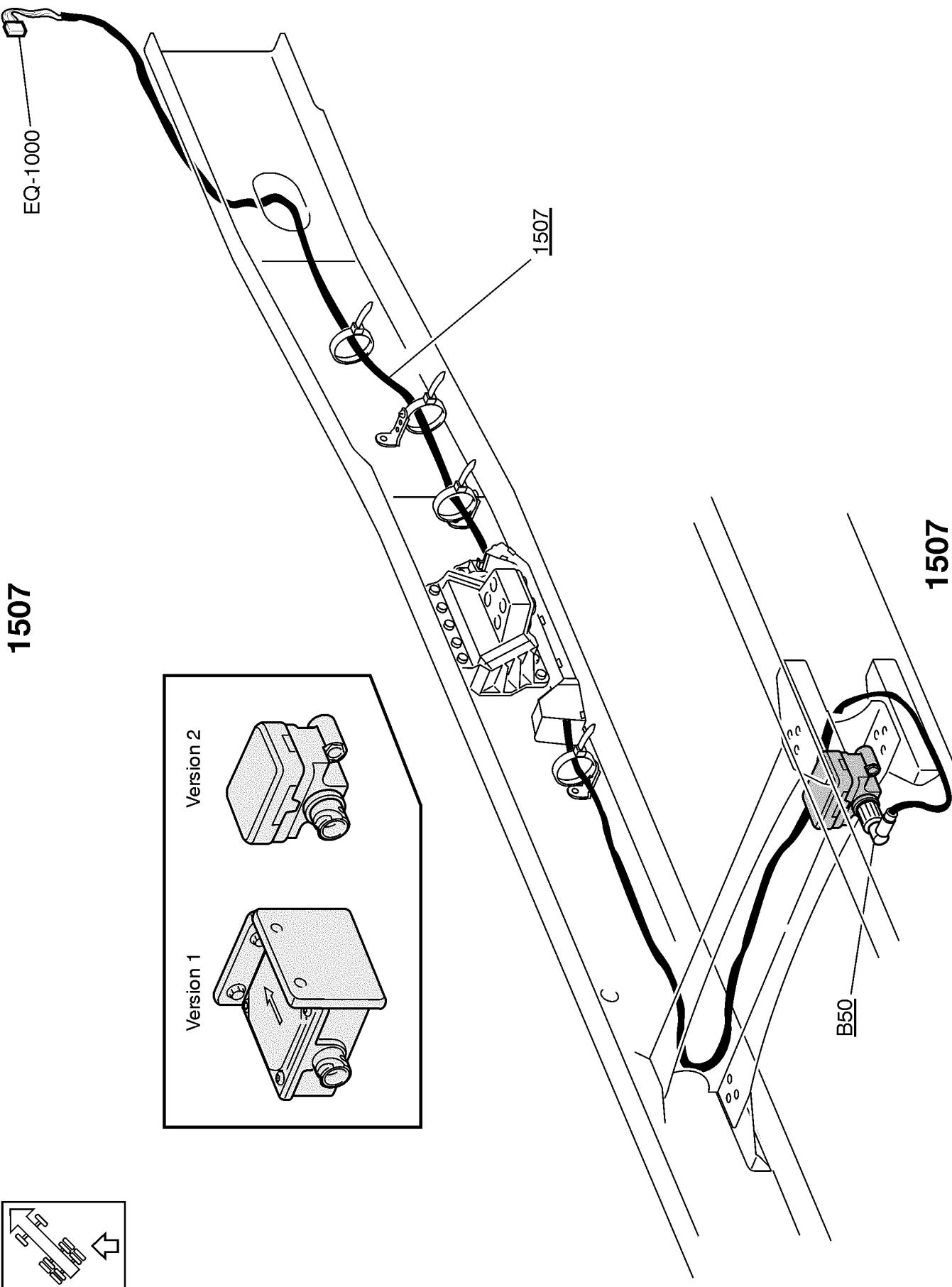
T3057745

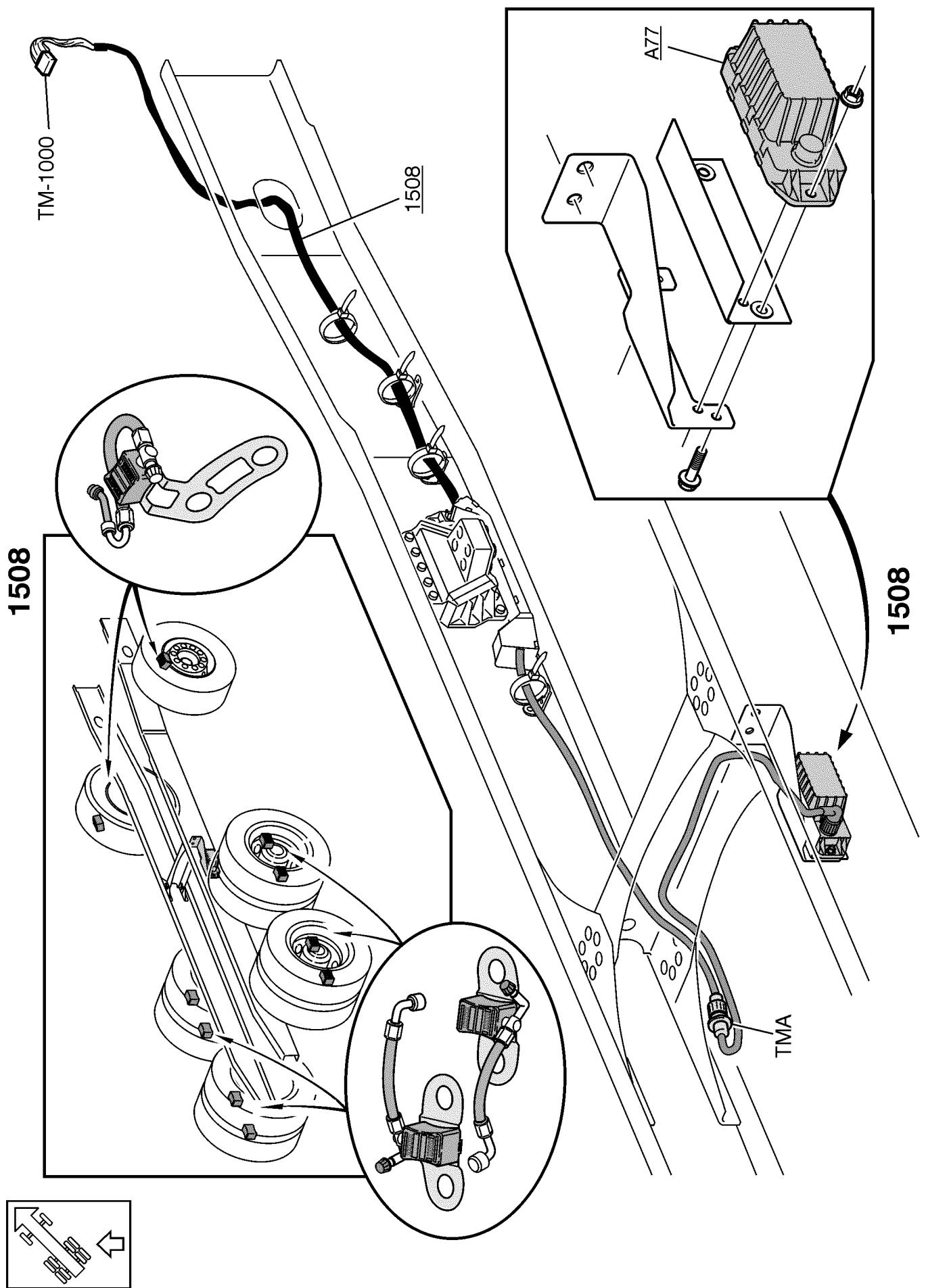


T3059953

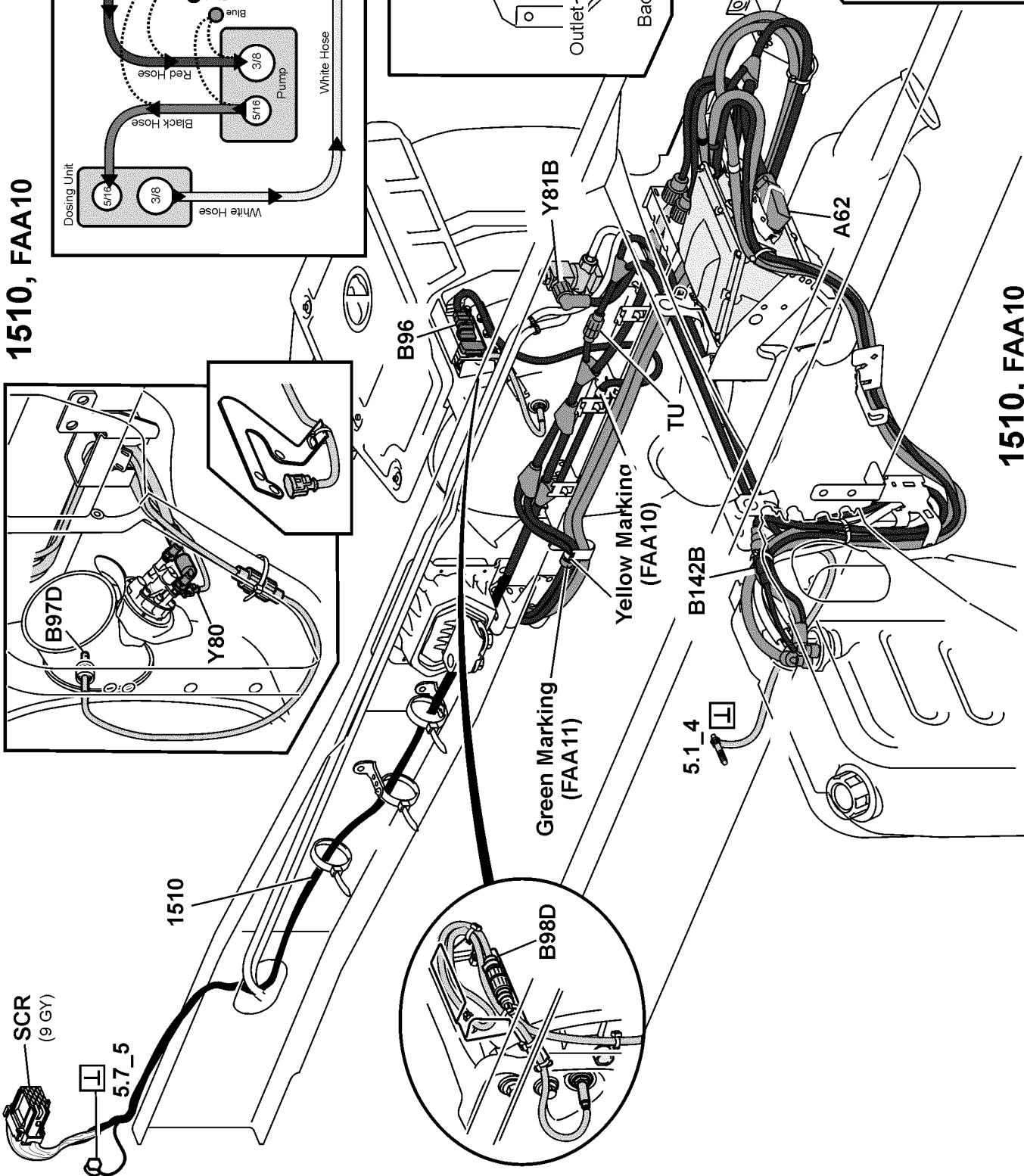
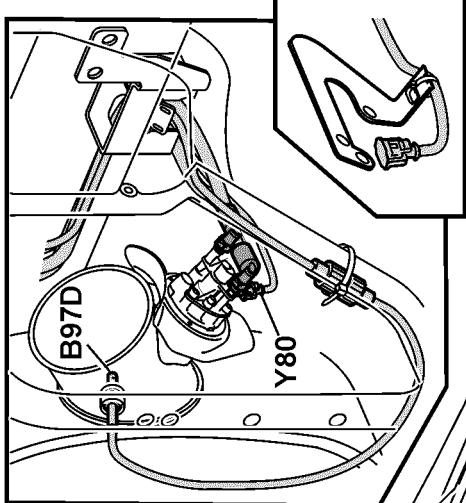
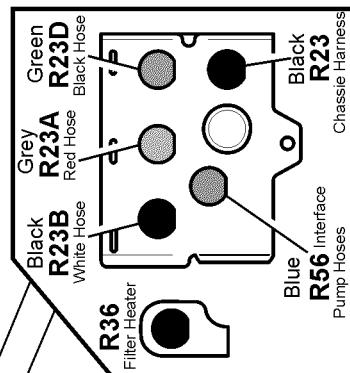
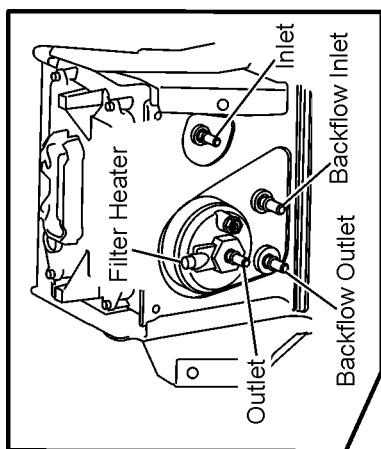
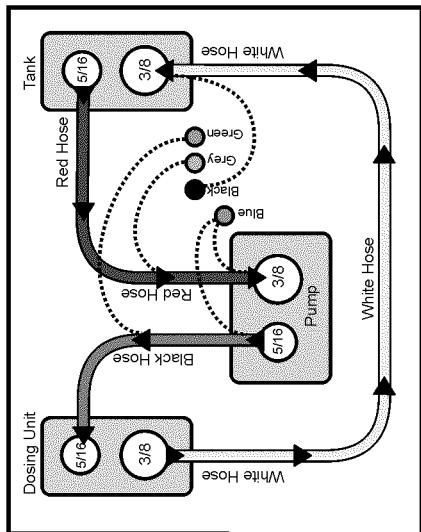
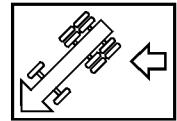
1505/1506A/1506B



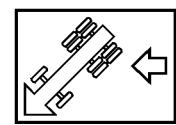




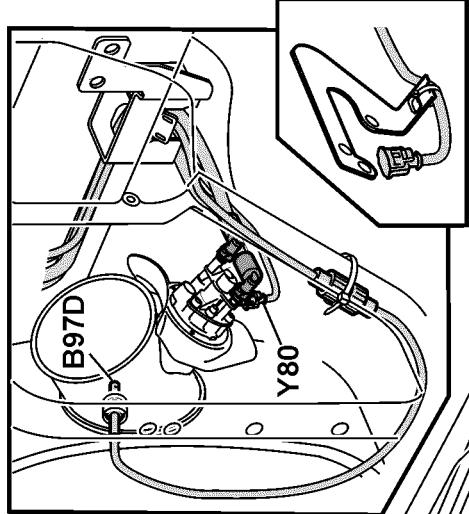
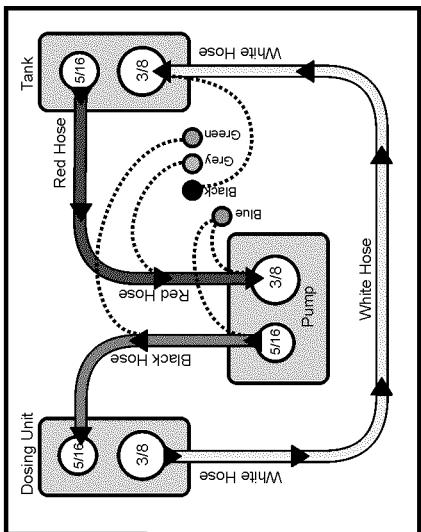
T3019297



T3071635



1510, FAA20

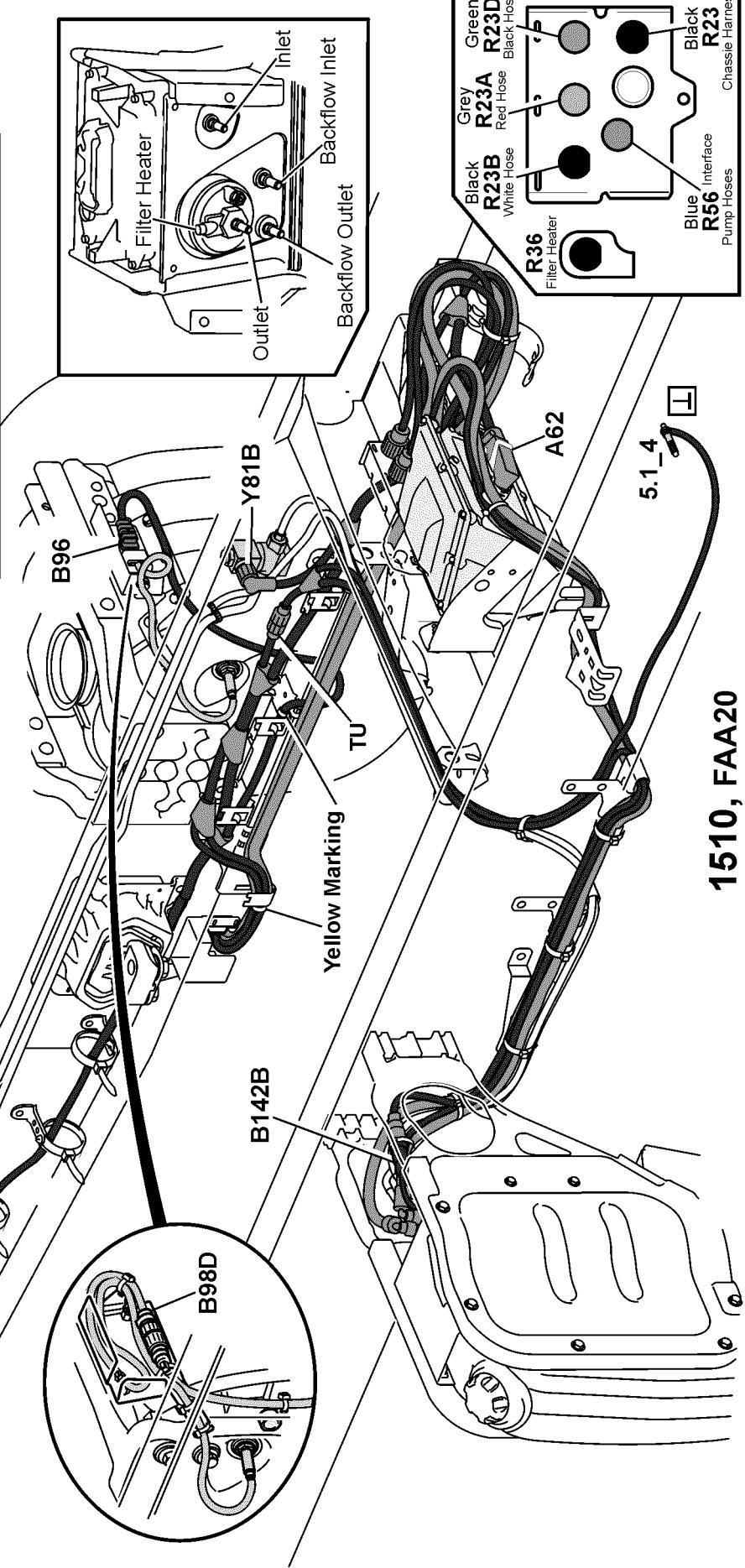


SCR

(9 GY)

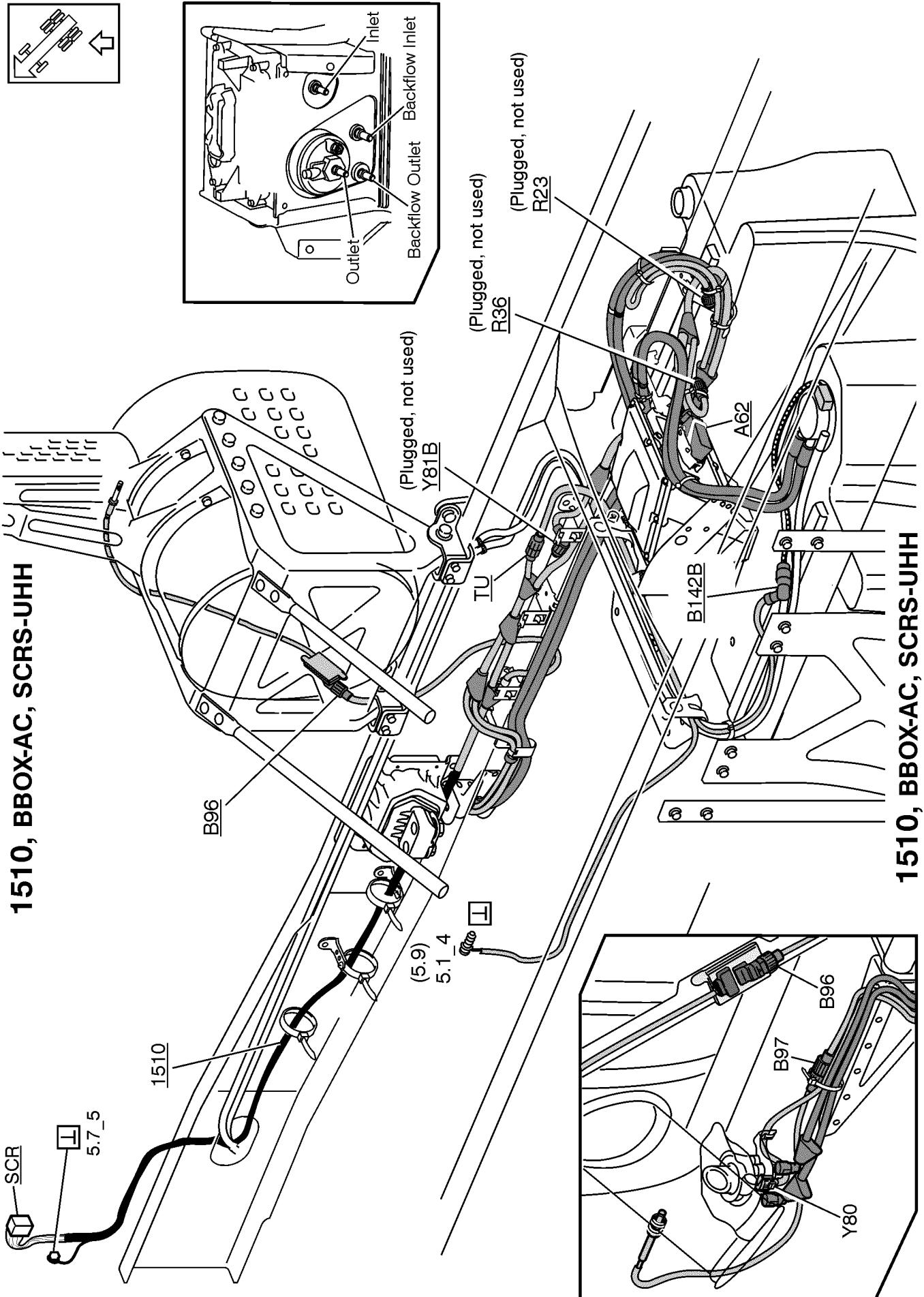
5.7_5

1510

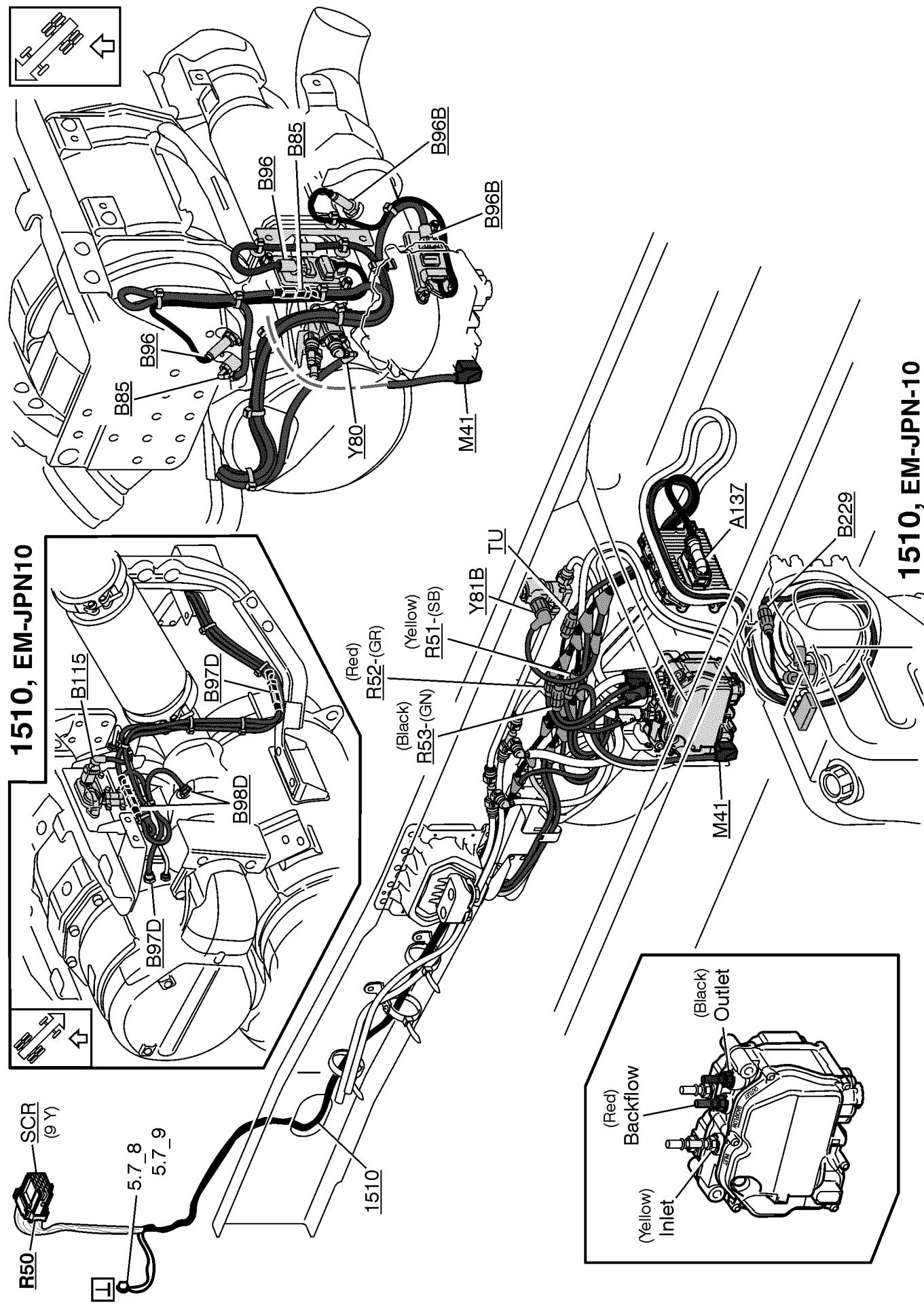


T3071671

1510, BBOX-AC, SCRS-UHH



T3020635



T3056934

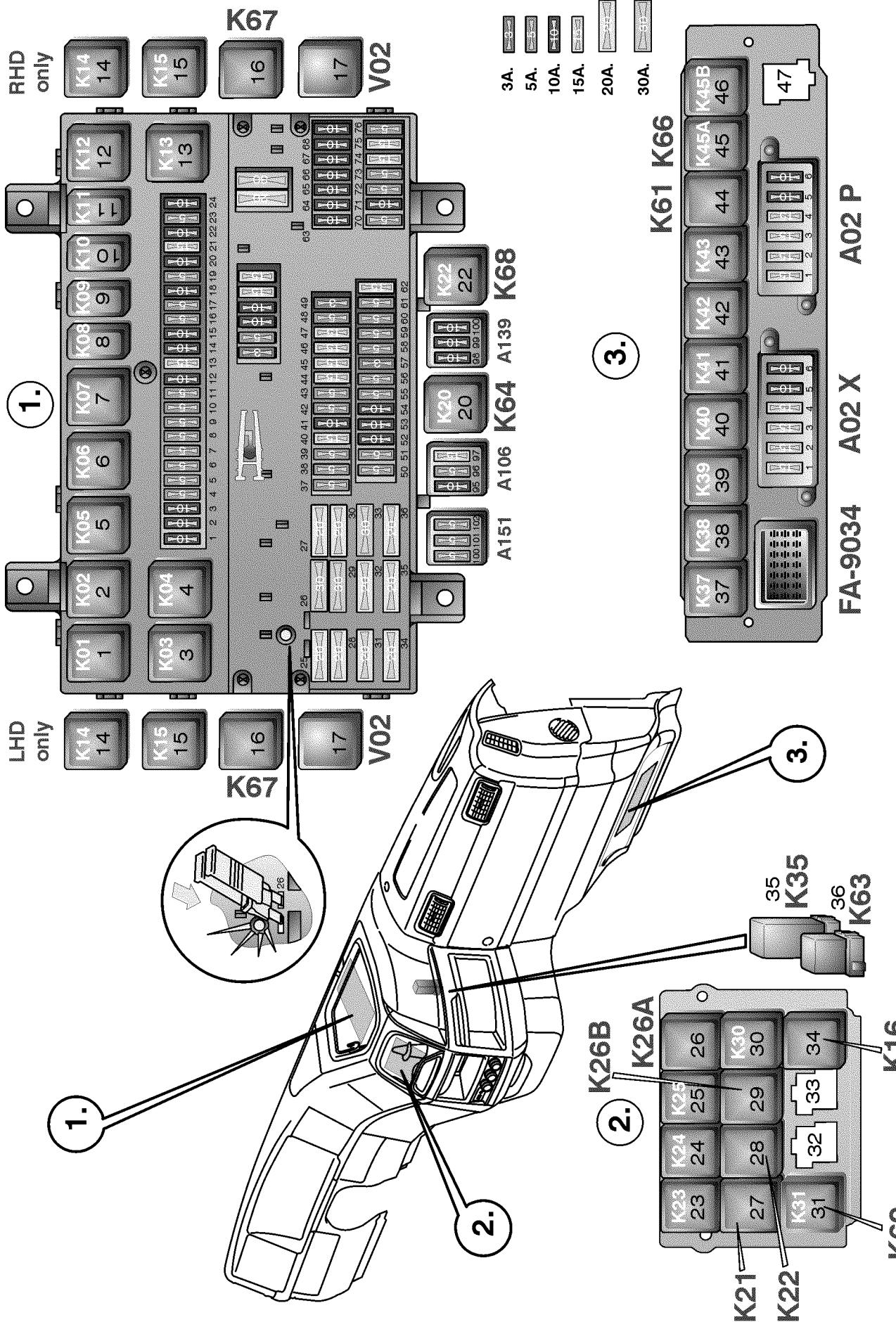
Fuses

F01	TPM (Tyre pressure Monitoring)	(OA:2 A)
F02	Luggage compartment lamp	(IH4:3 A)
F03	Loadlight, 5:th wheel lamp	(KE:0 A)
F04	Adj. seat, cab tilt, load- / 5th wheel lamp, interior light.....	(AC:3 D)
F05	Instrumentation, (kl.30)	(BI:3 A)
F06	Air dryer.....	(BA:1 B)
F07	Vehicle ECU, immobiliser	(BA:1 B)
F08	Instrumentation, TPM (Tyre Pressure Monitoring), Tachograph	(BI:0 A/ OA:2 A)
F09	Range-, area-inhibitors, Dynafleet.....	(BA:0 A)
F10	NOx sensor, Road toll system	(CR:1 A/ CV:1 A)
F11	Gear selector ECU	(DC:0 A/ DM:0 B)
F12	Transmission ECU/retarder	(DC:0 A/ DM:1 B)
F13	Windscreen wiper	(GM:2 A)
F14	Cigarette lighter, centre section storage lamp	(IQ:2 A)
F15	Water separator heater and water in fuel drain.....	(CJ:0 A)
F16	Differential lock, power take off.....	(DQ:0 A/ DU:1 A)
F17	LCM control.....	(GA:0 A)
F18	Horn, solenoid valve for air horn	(GQ:1 A)
F19	Climate unit, FMS gateway.....	(HG:0 A)
F20	Parking heater control.....	(HI:3 A)
F21	Fan, climate unit.....	(HY:0 A/ HY RHD:0 A)
F22	Interior lamps	(IH:1 A/ IH3:3 A)
F23	Air suspension	(FB:1 A)
F24	Air dryer, parking heater ADR, el. heated mirrors.....	(FQ:0 A)
F25	Supply ABS/EBS trailer	(CP:4 A/ GG:4 A/ ZA RHD:4 A)
F26	Body builder fuse box	(ME:3 B/ MF:3 B)
F27	El. window winder lhs, el. heated mirrors	(AC:3 B)
F28	Supply ABS/EBS truck.....	(EE:0 A/ EF:0 A/ EO:2 A)
F29	Coffee machine.....	(ME:1 A)
F30	El. window winder, rhs	(AC:3 B)
F31	Main fuse for fuses 95–97.....	(AB:3 A)

F32	Climate unit	(HG:0 A)
F33	El. cab tilt.....	(KA:0 A)
F34	High power amplifier.....	(IV:1 A)
F35	El. adjustable seat.....	(IA:2 A)
F36	Reverse lamp circuit trailer	(GB:4 D)
F37	Telephone, Dynafleet.....	(AC:3 C)
F38	Instep lamps.....	(AC:3 B)
F39	El. adjustable rear view mirrors.....	(AC:3 B)
F40	Engine ECU	(CJ:1 A)
F41	Engine solenoid valves	(CJ:3 A)
F42	Cooling fan clutch, engine preheating relay	(CJ:2 A)
F43	BBM (body builder module), Man. main switch BBOX-EF	(BA:1 A)
F44	Voltage converter 1, radio, rear view camera	(IR:0 A)
F45	Voltage converter 2, 12 Volt outlet.....	(IR:2 A)
F46	Beacon warning light.....	(KM:0 A)
F47	ACC.....	(BE:0 A)
F48	ABS/EBS.....	(EE:0 A/ EF:0 A/ EO:0 A)
F49	Air suspension/A-ride/J-ride.....	(FB:1 A/ FB RHD:0 A/ FI:0 A/ FK:1 A/ FL:0 A)
F50	Telephone	(IX:0 A)
F51	Hydraulic steered axle	(FO:1 A)
F52	Functions in key position "R", engine preheating	(AC:1 A)
F53	Light sign.....	(KI:1 A)
F54	Dynafleet, FMS gateway.....	(BU:0 A/ BX:0 A)
F55	SRS airbag, safety belt tensioner	(IS:0 A)
F56	Free.....	(ME:1 A)
F57	Gear selector ECU/retarder.....	(DC:1 A/ DM:1 B)
F58	Alternator control, ADR battery main switch.....	(AB:2 A/ AE:4 B)
F59	Rear view camera	(IZ:0 A)
F60	Hydraulic steered axle	(FO:1 A)
F61	Foldable rear view mirror arm, Japan, burglar alarm, Volvo link	(IF:0 A)
F62	Fuel heater, thermoline	(FX:0 A/ ME:0 A)
F63	Alcolock system	(IK:0 A)
F64	Road toll system	(BZ:0 A)
F65	Central lubrication system	(FU:0 A)

F66	Roof hatch.....	(IQ:0 A)
F67	Reading lamps, bedlamps	(IH:0 A/ IH3:3 A)
F68	Refrigerator.....	(IQ:3 A)
F69	12-volt outlet.....	(IR:2 C)
F70	Supply ABS/EBS trailer, (kl.15).....	(CP:3 A/ GG:3 A/ ZA RHD:3 A)
F71	Extra equipment.....	(ME:1 A)
F72	Headlamp level regulation system.....	(GU:0 A/ GU_2:2 A)
F73	Tail lift indication.....	(NB:2 A)
F74	Headlamp high-pressure washer.....	(GM:1 A)
F75	El. heated seat and el. ventilated seat.....	(IA:0 A)
F76	ADR, D+ short circuit relay, dashboard fan.....	(AE:4 B)
F89	Tachograph	(AB:4 D) (1435)
F90	12V converter, ABS trailer/info-module(1007C)	(CP:3 C)
F91	Tachograph, ADR	(AE:0 D/ AF:2 C) (1435)
F93	Main fuse for fuses 95–97.....	(AB:3 D/ AE:0 D/ AF:0 C) (1435)
F94	AdBlue system.....	(AB:3 D) (1435)
F95	Central door lock.....	(AB:3 B)
F96	Burglar alarm.....	(AB:3 B)
F97	Parking heater.....	(AB:3 B)
F:A39	Fuse in wiring harness (1000).....	(IZ:1 B)
FM1	Fuse, main, preheating	(AA:1 B)
FM2	Fuse, main, bogie lift/extra equipment.....	(AA:1 B/ AE:1 B/ AF:1 A)
FM3	Fuse, main, cab and chassis	(AA:1 B)
FM4	Fuse, main, LCM (Light Control Module) partly	(AA:0 B/ AE:1 B/ AF:1 A)

Relays



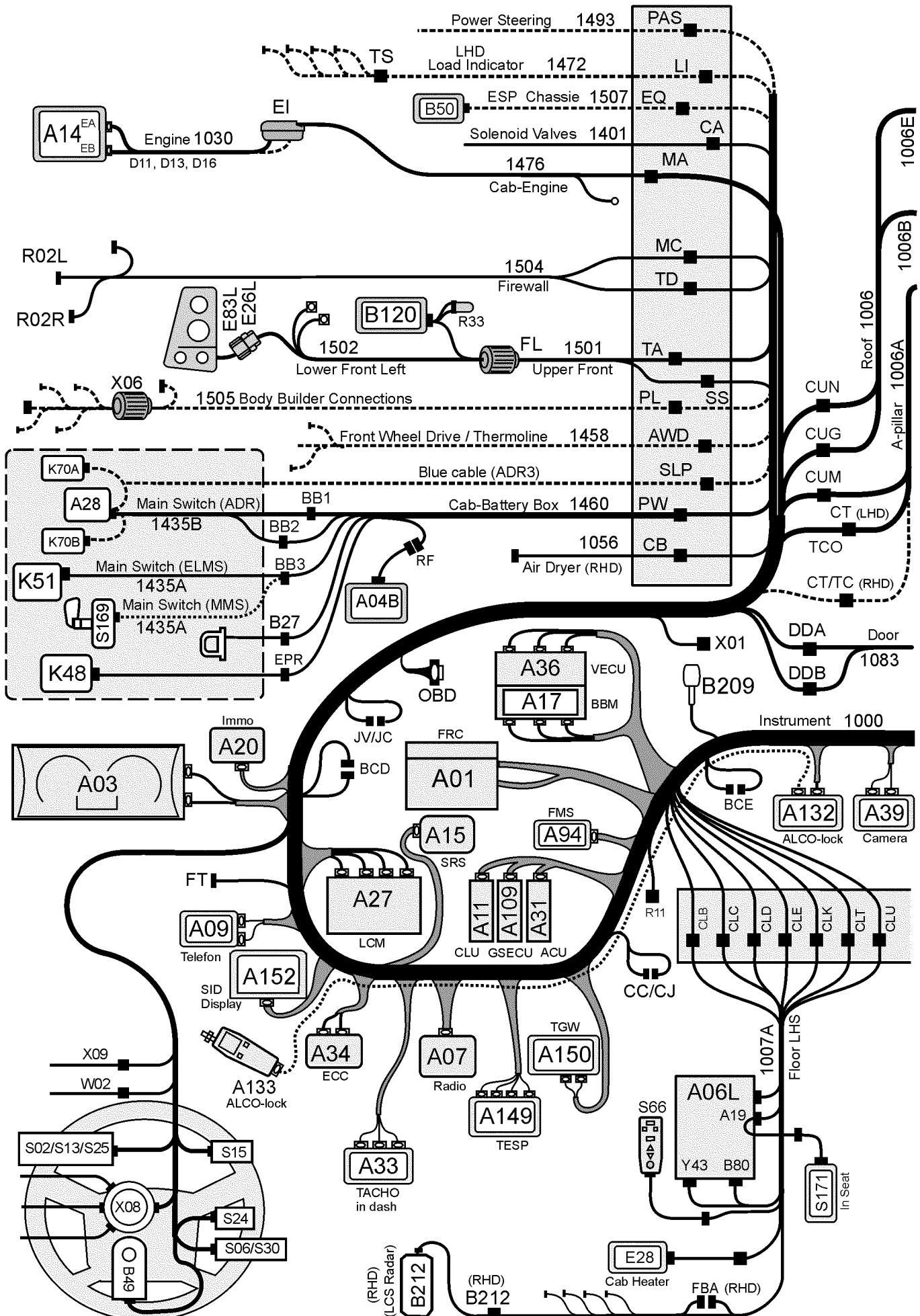
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K01	Relay, starting switch, radio position.....	(AC:3 C)
K02	Relay, EMS (Engine Management System).....	(BA:1 A)
K03	Relay, starter motor	(AA:2 B/ CJ:4 B)
K04	Relay, body builder fuse box (kl.15).....	(ME:2 A/ MF:1 A)
K05	Relay, I-shift/Powertronic/Retarder.....	(DC:0 A/ DM:0 A)
K06	Relay, fan climate unit	(HY:0 B/ HY RHD:0 B)
K07	Relay, intermittent wiper	(GM:1 C)
K08	Relay, gearbox area inhibitor.....	(BA:1 A)
K09	Relay, interior lamps.....	(IH:2 A/ IH3:3 A)
K10	Relay, fifth wheel-, working-light	(KE:0 C)
K11	Relay, air suspension	(FB:1 B)
K12	Relay, reverse light, trailer.....	(GB:4 D)
K13	Relay, alternator controlled.....	(AA:4 B)
K14	Time delay relay, bogie lift, A-ride	(FI:1 B/ FK:1 C)
K15	Time delay relay, bogie lift, A-ride, with axle load limiter.....	(FK:2 C)
K16	Relay, bogie lift, A-ride, with axle load limiter.....	(FK:1 C)
K20	Relay, D+ short-circuit, (ADR-trucks only)	(AE:4 D)
K21	Relay, el. adjustable seat	(IA:2 B)
K22	Relay, climate fan, 1:st speed (by parking heater).....	(HY:1 B/ HY RHD:0 B)
K23	Relay, cab tilt	(KA:0 C)
K24	Relay, central lubrication	(FU:0 B)
K25	Relay, light sign	(KI:1 C)
K26A	Relay, foldable rear view mirror arm, Japan.....	(IF:0 C)
K26B	Relay, foldable rear view mirror arm, Japan.....	(IF:1 C)
K30	Relay, beacon warning light	(KM:0 B)
K35	Relay, headlamp high pressure wash	(GM:0 B)
K37	Relay, parking light	(NA:1 C/ NB:0 C)
K38	Relay, body builder preparation, swapbody lamps	(NA:1 C/ NA_2:1 C/ NB:1 C)
K39	Relay, body builder preparation, plough light, spotlights.....	(NA:1 C/ NB:1 C)
K40	Relay, body builder preparation	(NA:3 C/ NA_2:2 C/ NB:3 C)
K41	Relay, body builder preparation, swapbody	(NA:2 C/ NB:2 C)

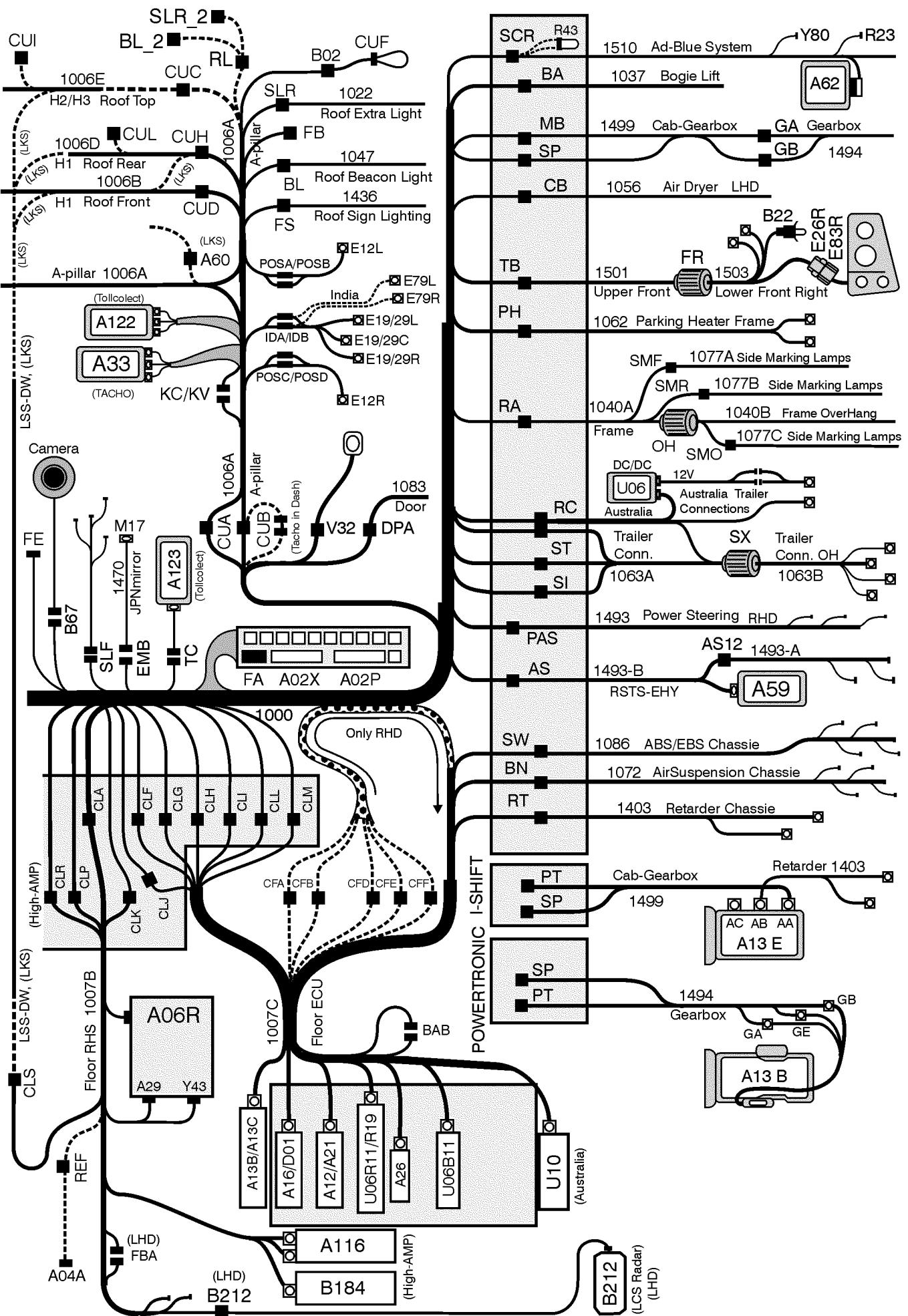
K42	Relay, body builder preparation, spotlights	(NI:1 B)
K43	Relay, body builder preparation, external start.....	(NC:3 C)
K45A	Relay, body builder preparation, dual speed.....	(NU:2 B)
K45B	Relay, body builder preparation, dual speed.....	(NU:2 C)
K48	Power relay, engine preheating.....	(CJ:3 B)
K49	Power relay, bogie lift motor	(FI:3 B/ FK:3 D)
K51	Power relay, battery main switch.....	(AB:0 C)
K61	Relay, auxiliary reverse light, truck.....	(NA:0 C/ NA_2:3 B/ NB:0 C)
K63	Relay, ACC Adaptive cruise control	(BE:0 B)
K64	Relay, man. main switch BBOX-EF.....	(AB:1 C)
K65	Power relay, starter motor pre-relay.....	(AA:1 D/ CO:2 B)
K66	Relay, tail lift indication	(NB:2 C)
K67	Relay, rainsensor, high speed wiper	(GM:3 C)
K68	Relay, 24V, outlet.....	(IR2:1 A)
K69	Relay, fuel heater, thermoline.....	(FX:0 C)
K70A	Relay, ADR/SLP.....	(AF:0 B)
K70B	Relay, ADR/SLP	(AF:0 D)

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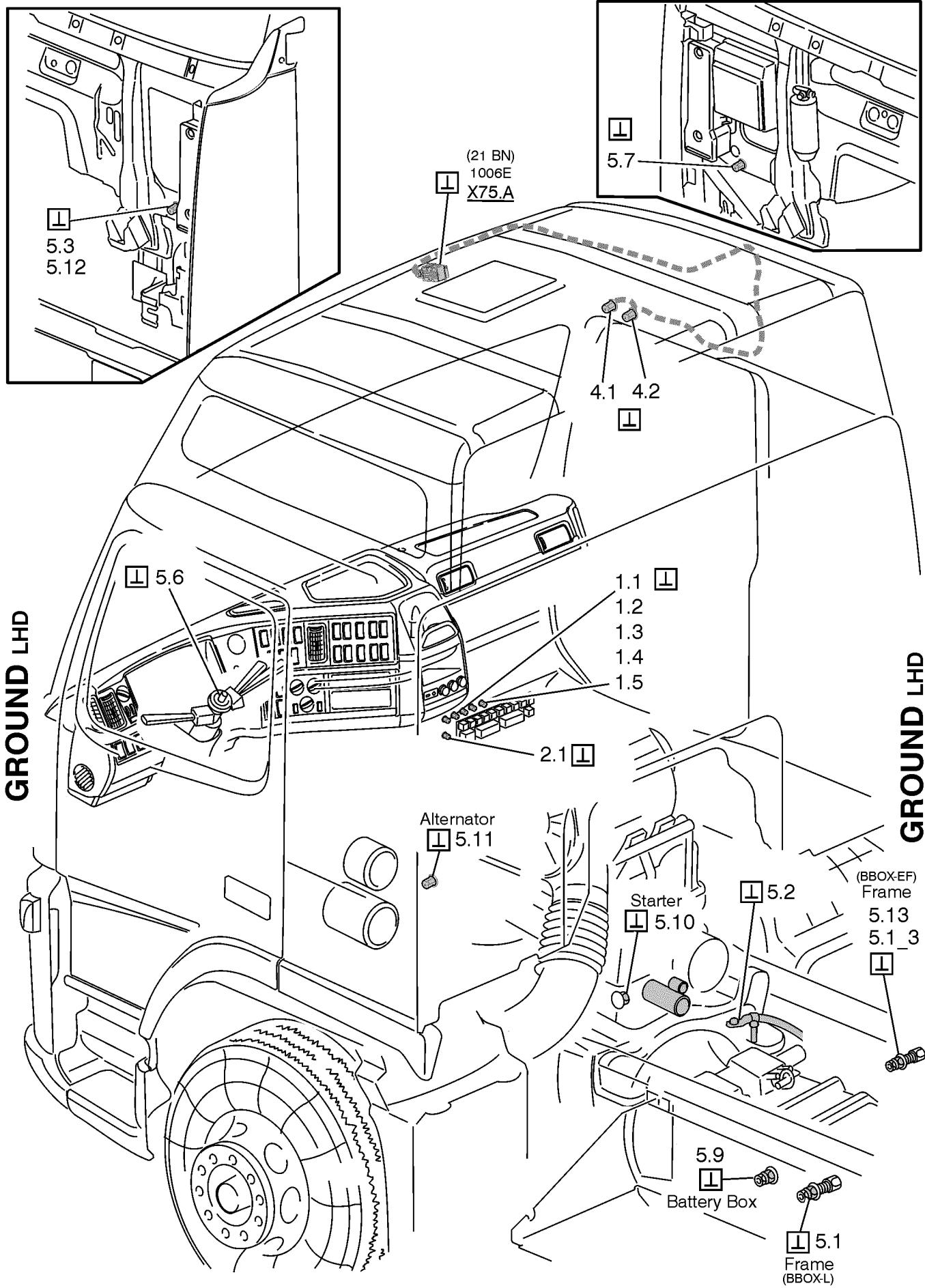


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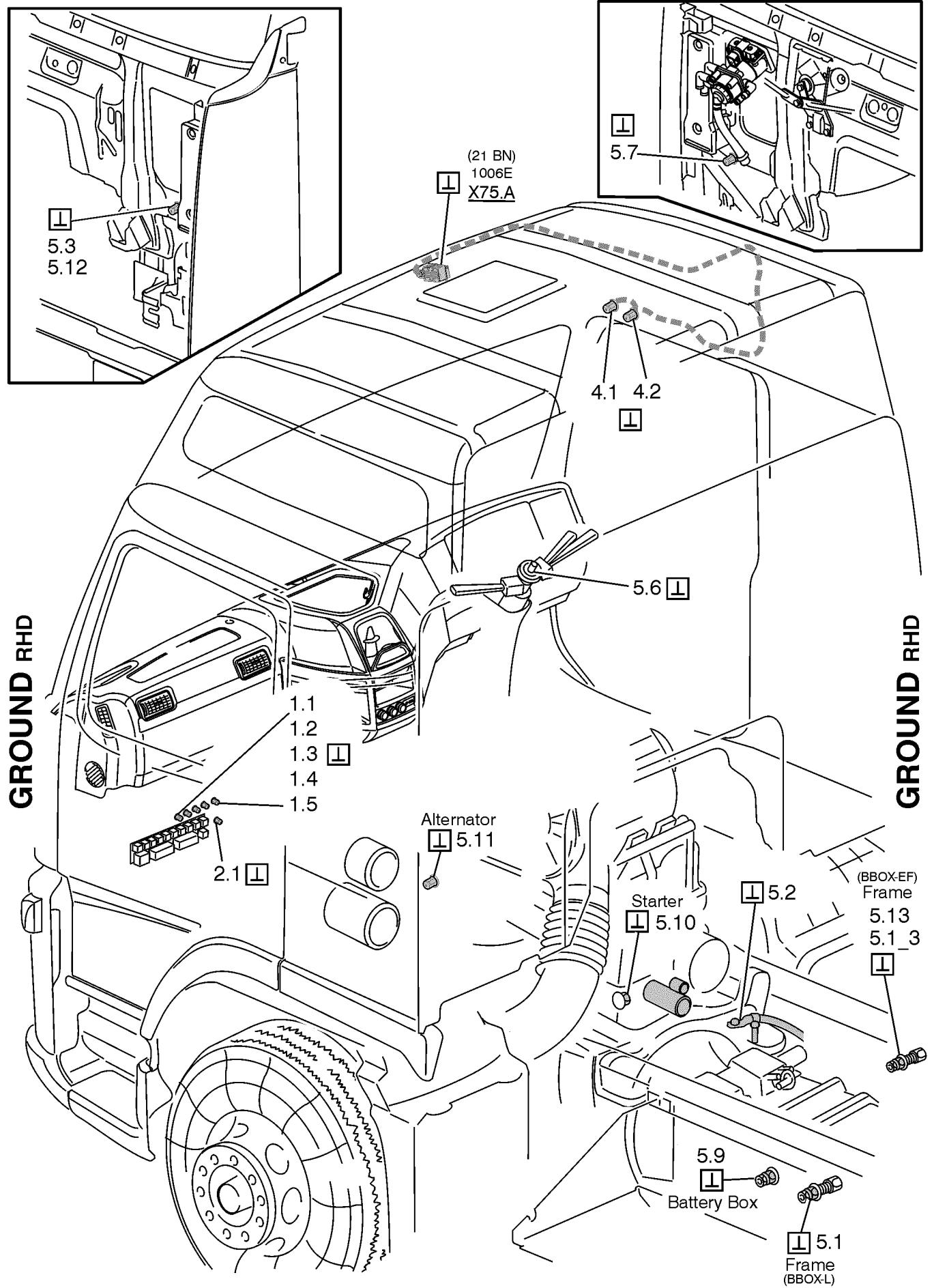


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Ground connections



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List of ground connections

1.1_A	(IU:0 E)	2.1_F	(BE:1 C)
1.1_C	(IR:0 E)	2.1_G	(BE:0 C)
1.1_D	(IR2:1 E)	4.1_1	(GA:1 E)
1.2_A	(BA:1 E)	4.1_1	(GA:4 E)
1.2_B	(IS:0 E)	4.1_1	(GL2:0 C)
1.2_C	(FX:0 D)	4.1_2	(KI:2 C)
1.3	(AE:4 E)	4.1_3	(KI:2 E)
1.3_A	(BU:2 D)	4.1_4	(GL:1 D)
1.3_B	(BU:0 C)	4.1_5	(IH:0 E)
1.4	(AA:3 E)	4.1_6	(BZ:0 D)
1.4	(AC:2 D)	4.1_7	(BE:0 D)
1.4	(FL:1 E)	4.1_8	(IH3:2 E)
1.4	(ZA RHD:1 C)	4.1_8	(IH4:2 D)
1.4_B	(AA:4 E)	4.1_9	(YA:4 E)
1.4_C	(HZ:1 D)	4.2_1	(BN:1 D)
1.4_E	(IV:1 E)	4.2_2	(HI:1 B)
1.5	(FL:1 E)	4.2_4	(BN:1 D)
1.5_A	(HE:1 D)	4.2_5	(KM:0 D)
1.5_B	(GA:3 B)	4.2_6	(NI:3 E)
X1.5_D	(ME:4 D)	4.2_9	(IR:1 E)
2.1_A	(CP:4 D)	5.1	(AA:0 E)
2.1_B	(ZA RHD:1 D)	5.1	(AB:0 E)
2.1_C	(NI:0 E)	5.1	(AF:1 E)
2.1_E	(NA:2 D)	5.10	(AA:1 E)
2.1_E	(NA_2:1 E)	5.11	(AA:2 E)
2.1_E	(NA_2:4 C)	5.1_1	(NA:4 D)
2.1_E	(NB:2 D)	5.1_1	(NB:4 D)

5.1_2	(NA:4 D)	5.9_3	(AB:2 D)
5.1_2	(NB:4 D)	5.9_4	(AE:0 E)
5.12_1	(CJ:0 D)	5.9_8	(AB:0 D)
5.12_2	(CJ:0 D)		
5.13	(AA:0 D)		
5.13	(AB:1 D)		
5.2	(AA:0 E)		
5.2	(AF:1 E)		
5.3	(AA:0 E)		
5.3	(AF:0 E)		
5.4	(FI:3 D)		
5.4	(FK:3 E)		
5.6	(GQ:1 E)		
5.7_1	(GE:1 D)		
5.7_1	(GK:1 D)		
5.7_2	(GH:2 D)		
5.7_2	(GK:1 D)		
5.7_3	(GH:2 D)		
5.7_3	(GK:0 D)		
5.7_4	(GG:2 C)		
5.7_5	(CV:1 C)		
5.7_6	(CV:0 C)		
5.7_8	(CR:1 B)		
5.7_9	(CR:2 C)		
5.9_1	(AA:0 E)		
5.9_1	(AB:0 D)		
5.9_1	(AB:2 D)		
5.9_1	(AE:0 E)		

List of connectors

A02X.E	(ME:4 B)	AS12:3	(FO:3 C)
ADR:1	(AE:1 C)	AS12:4	(FO:3 C)
ADR:1	(AE:2 C)	AS12:5	(FO:2 C)
ADR:1	(AF:3 B)	AS12:6	(FO:2 C)
ADR:2	(AE:1 C)	AS12:7	(FO:2 C)
ADR:2	(AE:2 C)	AS12:8	(FO:2 C)
ADR:2	(AF:3 B)	AS12:9	(FO:1 C)
ADR:4	(AE:1 C)	AS12:10	(FO:0 B)
ADR:4	(AE:2 C)	AS12:11	(FO:0 B)
ADR:4	(AF:3 D)	AS12:12	(FO:1 D)
ADR:5	(AE:1 C)	AWD:1	(FX:0 D)
ADR:5	(AE:2 C)	AWD:2	(FX:0 D)
ADR:5	(AF:3 D)	AWD:3	(DU:2 C)
AG:1	(FO:3 C)	AWD:4	(DU:2 C)
AG:2	(FO:3 C)	AWD:5	(DU:4 C)
AG:3	(FO:3 C)	AWD:6	(DU:4 C)
AG:4	(FO:3 C)	AWD:8	(DU:2 D)
AS:1	(FO:1 C)	AWD:9	(FX:0 D)
AS:2	(FO:1 C)	AWD:10	(FX:0 D)
AS:4	(FO:1 B)	B07_1:1	(BI:2 C)
AS:5	(FO:1 B)	B07_1:2	(BI:2 D)
AS:6	(FO:2 B)	BA:1	(FI:1 C)
AS:7	(FO:3 B)	BA:1	(FK:1 D)
AS:8	(FO:3 B)	BA:2	(FI:2 C)
AS:9	(FO:1 E)	BA:2	(FK:3 D)
AS12:1	(FO:3 C)	BA:3	(FI:0 C)
AS12:2	(FO:3 C)	BA:3	(FK:0 D)

BA:3	(FL:0 C)	BB1:3	(AF:3 E)
BA:5	(FK:1 D)	BB1:4	(AE:1 A)
BA:6	(FL:0 C)	BB1:5	(AE:2 D)
BA:7	(FI:3 B)	BB1:5	(AF:3 D)
BA:7	(FK:3 C)	BB1:6	(AE:2 D)
BA:8	(FK:1 D)	BB1:6	(AF:4 D)
BA:8	(FL:0 D)	BB1:7	(AE:0 D)
BAB:1	(XA:4 D)	BB1:7	(AF:0 D)
BAB:2	(XA:2 D)	BB2:1	(AE:0 C)
BAB:3	(XA:3 D)	BB2:1	(AF:2 B)
BAB:4	(XA:2 D)	BB2:2	(AE:1 C)
BAB:5	(XA:3 D)	BB2:2	(AF:2 B)
BAB:6	(XA:2 D)	BB2:3	(AE:1 D)
BAB:7	(XB:3 D)	BB2:3	(AF:3 C)
BAB:8	(XA:3 C)	BB2:4	(AE:1 D)
BAB:9	(XA:2 C)	BB2:4	(AF:3 C)
BAB:10	(XB:3 D)	BB2:7	(AB:3 C)
BAB:11	(XB:2 D)	BB3:1	(AA:0 A)
BAB:12	(XB:2 D)	BB3:2	(AB:4 C)
BAB:13	(XB:3 D)	BB3:3	(AB:0 B)
BAB:14	(XB:1 D)	BB3:3	(AB:2 C)
BAB:15	(XB:1 D)	BB3:4	(AB:0 B)
BAB:16	(XB:3 D)	BB3:5	(AB:3 C)
BAB:17	(XB:4 D)	BB3:6	(AA:0 A)
BAB:18	(XB:1 D)	BB3:7	(AB:3 C)
BB1:1	(AE:1 A)	BCD:1	(XA:2 B)
BB1:2	(AE:0 D)	BCD:2	(XA:3 B)
BB1:3	(AE:1 E)	BCD:3	(NX:2 A)

BCD:3	(XB:2 B)	BL:3	(KM:0 D)
BCD:4	(NX:2 A)	BL_2:1	(KM:1 D)
BCD:4	(XA:2 B)	BL_2:2	(KM:1 D)
BCD:5	(XA:2 B)	BN:1	(FA:2 A)
BCD:6	(IX:2 D)	BN:2	(FM:1 C)
BCD:7	(XA:3 B)	BN:3	(FA:3 C)
BCD:8	(XA:3 B)	BN:4	(FA:3 C)
BCD:9	(NX:2 A)	BN:5	(FA:1 B)
BCD:9	(XB:3 B)	BN:6	(FA:1 B)
BCD:10	(NX:3 A)	BN:7	(FA:1 B)
BCD:10	(XA:3 B)	BN:9	(FA:0 B)
BCD:11	(XA:4 B)	BN:10	(FA:2 C)
BCD:12	(IX:2 D)	BN:11	(FA:3 B)
BCD:13	(XA:2 B)	BN:12	(FA:2 B)
BCD:13	(XB:2 B)	BN:13	(FA:2 B)
BCD:14	(XA:4 B)	BN:14	(FA:1 C)
BCD:14	(XB:3 B)	BN:15	(FA:1 C)
BCD:15	(XA:1 B)	BN:16	(FA:2 C)
BCD:15	(XB:2 B)	BN:16	(FG:1 C)
BCD:16	(XA:4 B)	BN:17	(FA:2 C)
BCD:16	(XB:3 B)	BN:18	(FA:2 C)
BCE:1	(BM:3 A)	BN:18	(FG:0 C)
BCE:2	(BM:3 A)	BN:19	(FA:0 C)
BCE:3	(BM:3 A)	BN:20	(FA:1 C)
BCE:4	(BM:4 A)	BN:21	(FA:0 C)
BCE:5	(BM:4 A)	BN:22	(FA:2 B)
BCE:6	(BM:4 A)	BN:23	(FA:3 B)
BL:1	(KM:0 C)	BN:24	(FA:3 C)

BN:24	(FM:0 C)	CA:1	(DQ:0 D)
BN:25	(FA:3 C)	CA:2	(GB:3 B)
BN_2:1	(FB RHD:3 D)	CA:2	(ZA RHD:1 D)
BN_2:2	(FA RHD:3 D)	CA:3	(DU:1 C)
BN_2:3	(FA RHD:3 D)	CA:4	(DQ:0 C)
BN_2:4	(FA RHD:3 D)	CA:5	(GB:3 B)
BN_2:5	(FA RHD:1 B)	CA:6	(EO:3 B)
BN_2:6	(FA RHD:1 B)	CA:9	(DU:1 C)
BN_2:7	(FA RHD:1 B)	CA:10	(EO:3 B)
BN_2:8	(FA RHD:3 D)	CA:11	(EO:3 B)
BN_2:9	(FA RHD:0 B)	CA:11	(ZA RHD:1 D)
BN_2:10	(FA RHD:2 D)	CA:12	(EO:3 B)
BN_2:11	(FA RHD:3 B)	CA:12	(ZA RHD:1 D)
BN_2:12	(FA RHD:2 B)	CA:13	(EO:3 B)
BN_2:13	(FA RHD:2 B)	CA:14	(EO:3 B)
BN_2:14	(FA RHD:1 D)	CA:15	(EO:3 B)
BN_2:15	(FA RHD:1 D)	CA:16	(DU:1 D)
BN_2:16	(FA RHD:2 D)	CA:17	(FU:0 C)
BN_2:17	(FA RHD:2 D)	CA:18	(FU:0 D)
BN_2:18	(FA RHD:2 D)	CA:19	(NC:0 C)
BN_2:19	(FA RHD:0 D)	CA:19	(NU:0 C)
BN_2:20	(FA RHD:1 D)	CA:19	(NX:0 C)
BN_2:21	(FA RHD:0 D)	CA:20	(NC:1 C)
BN_2:22	(FA RHD:3 B)	CA:20	(NU:1 C)
BN_2:23	(FA RHD:3 B)	CA:20	(NX:1 C)
BS:1	(FK:1 D)	CB:1	(FQ:0 B)
BS:2	(FK:0 D)	CB:2	(FQ:0 D)
BS:4	(FK:1 D)	CB:2	(ZA RHD:1 B)

CB:3	(BA:0 D)	CFA:1	(EO RHD:3 C)
CB:3	(FQ:2 B)	CFA:2	(EE RHD:0 C)
CB:4	(BA:0 D)	CFA:2	(EO RHD:3 C)
CB:5	(FQ:2 D)	CFA:3	(EE RHD:3 C)
CB:6	(FQ:2 D)	CFA:3	(EO RHD:1 C)
CC:1	(IZ:1 B)	CFA:4	(EE RHD:1 C)
CC:2	(IZ:1 B)	CFA:4	(EO RHD:1 C)
CC:3	(IZ:1 B)	CFA:5	(EE RHD:1 C)
CC:4	(IZ:1 B)	CFA:5	(EO RHD:2 C)
CC:5	(IX:2 A)	CFA:6	(EE RHD:3 C)
CC_2:1	(IZ:1 B)	CFA:6	(EO RHD:2 C)
CC_2:2	(IZ:1 B)	CFA:7	(EE RHD:2 C)
CC_2:3	(IZ:1 B)	CFA:7	(EO RHD:2 C)
CC_2:4	(IZ:1 B)	CFA:8	(EE RHD:2 C)
CC_2:5	(IX:2 A)	CFA:8	(EO RHD:2 C)
CC/CJ:3	(ZA RHD:1 B)	CFA:9	(EE RHD:4 C)
CC/CJ:4	(GC RHD:1 C)	CFA:9	(EO RHD:3 C)
CJ:1	(IZ:1 B)	CFA:10	(EE RHD:3 C)
CJ:2	(IZ:1 B)	CFA:10	(EO RHD:3 C)
CJ:3	(IZ:1 B)	CFA:11	(EE RHD:3 C)
CJ:4	(IZ:1 B)	CFA:11	(EO RHD:4 C)
CJ:5	(IX:2 B)	CFA:12	(EE RHD:4 C)
CJ_3:1	(IZ:1 B)	CFA:12	(EO RHD:4 C)
CJ_3:2	(IZ:1 B)	CFA:13	(EE RHD:0 C)
CJ_3:3	(IZ:1 B)	CFA:13	(EO RHD:3 C)
CJ_3:4	(IZ:1 B)	CFA:14	(EE RHD:0 C)
CJ_3:5	(IX:2 B)	CFA:14	(EO RHD:3 C)
CFA:1	(EE RHD:0 C)	CFA:15	(EE RHD:1 C)

CFA:15	(EO RHD:4 C)	CFB:21	(FA RHD:0 D)
CFA:16	(EE RHD:1 C)	CFB:22	(FA RHD:3 B)
CFA:17	(EE RHD:2 C)	CFB:23	(FA RHD:3 B)
CFA:18	(EE RHD:2 C)	CFD:1	(DM:3 C)
CFA:19	(EE RHD:3 C)	CFD:2	(DM:2 C)
CFA:20	(EE RHD:3 C)	CFD:3	(DM:2 C)
CFB:1	(FB RHD:3 C)	CFD:4	(DM:2 C)
CFB:2	(FA RHD:3 D)	CFD:5	(DM:2 C)
CFB:3	(FA RHD:3 D)	CFD:6	(DM:3 C)
CFB:4	(FA RHD:3 D)	CFD:7	(DM:3 C)
CFB:5	(FA RHD:1 B)	CFE:1	(FG:1 C)
CFB:6	(FA RHD:1 B)	CFE:2	(FG:2 C)
CFB:7	(FA RHD:1 B)	CFE:3	(FG:2 C)
CFB:8	(FA RHD:3 D)	CFE:4	(FG:2 C)
CFB:9	(FA RHD:0 B)	CFE:5	(FG:2 C)
CFB:10	(FA RHD:2 D)	CFE:6	(FG:2 C)
CFB:11	(FA RHD:3 B)	CFF:1	(CP:4 B)
CFB:12	(FA RHD:2 B)	CFF:2	(CP:4 B)
CFB:13	(FA RHD:2 B)	CFF:3	(CP:3 B)
CFB:14	(FA RHD:1 D)	CFF:4	(CP:4 C)
CFB:15	(FA RHD:1 D)	CFF:5	(CP:3 C)
CFB:16	(FG:2 C)	CLA:1	(IA:1 B)
CFB:16	(FA RHD:2 D)	CLA:2	(BI:1 C)
CFB:17	(FA RHD:2 D)	CLA:3	(IA:1 B)
CFB:18	(FG:2 C)	CLA:6	(BI:1 D)
CFB:18	(FA RHD:2 D)	CLA:7	(NK:0 D)
CFB:19	(FA RHD:0 D)	CLA:8	(FB RHD:2 D)
CFB:20	(FA RHD:1 D)	CLA:9	(AE:2 C)

CLA:9	(FB RHD:2 D)	CLB:12	(DC:2 D)
CLA:10	(AE:2 C)	CLC:1	(HI:0 C)
CLA:10	(FB RHD:2 D)	CLC:1	(HI2:0 C)
CLA:11	(AE:2 C)	CLC:2	(HI:0 C)
CLA:11	(FB RHD:2 D)	CLC:2	(HI2:1 C)
CLA:12	(AE:2 C)	CLC:3	(HI:0 C)
CLA:12	(FB RHD:2 D)	CLC:3	(HI2:1 C)
CLA:13	(FB RHD:2 D)	CLC:4	(HI:1 C)
CLA:14	(FB RHD:3 D)	CLC:4	(HI2:2 C)
CLA:15	(FB RHD:3 D)	CLC:6	(HI2:2 C)
CLA:16	(IS:3 C)	CLC:7	(HI:2 C)
CLA:17	(IS:3 C)	CLC:7	(HI2:3 C)
CLA:18	(FB RHD:3 D)	CLC:7	(ZA RHD:0 B)
CLA:19	(IA:0 B)	CLC:8	(HI:1 C)
CLA:20	(IA:1 B)	CLC:8	(HI2:1 C)
CLA:21	(IA:0 D)	CLC:9	(HI:1 C)
CLA:22	(IH4:3 D)	CLC:9	(HI2:2 C)
CLA:23	(IQ:3 C)	CLC:10	(HI:2 C)
CLA:25	(IQ:3 D)	CLC:10	(HI2:3 C)
CLB:1	(DC:0 D)	CLC:11	(HI:0 C)
CLB:2	(DC:1 D)	CLC:11	(HI2:0 C)
CLB:3	(DC:1 D)	CLC:12	(HI2:2 C)
CLB:4	(DC:1 D)	CLD:1	(IX:0 C)
CLB:5	(DC:1 D)	CLD:2	(IX:0 C)
CLB:7	(DC:1 D)	CLD:3	(IX:1 C)
CLB:8	(DC:1 D)	CLD:4	(IX:1 C)
CLB:9	(DC:1 D)	CLE:1	(FB:3 D)
CLB:11	(DC:1 D)	CLE:2	(BI:1 C)

CLE:3	(IA:3 B)	CLF:2	(IR:2 B)
CLE:4	(IA:3 B)	CLF:5	(IR:0 B)
CLE:6	(BI:1 C)	CLF:6	(IR:0 B)
CLE:8	(IH4:3 B)	CLF:10	(DM:1 C)
CLE:9	(AE:1 C)	CLF:11	(DM:0 D)
CLE:9	(AF:3 B)	CLF:12	(DM:0 C)
CLE:9	(FB:2 D)	CLF:13	(XA:3 D)
CLE:10	(AE:1 C)	CLF:14	(XA:2 D)
CLE:10	(AF:3 B)	CLF:15	(XB:3 D)
CLE:10	(FB:2 D)	CLF:16	(XB:2 D)
CLE:11	(AE:1 C)	CLF:17	(FG:1 C)
CLE:11	(AF:3 D)	CLF:18	(XA:2 C)
CLE:11	(FB:2 D)	CLF:19	(IR:2 C)
CLE:12	(AE:1 C)	CLF:19	(XA:2 C)
CLE:12	(AF:3 D)	CLF:20	(IR:2 C)
CLE:12	(FB:2 D)	CLF:20	(XB:1 C)
CLE:13	(FB:3 D)	CLF:21	(IR:2 C)
CLE:14	(FB:3 D)	CLF:21	(XB:1 C)
CLE:15	(FB:3 D)	CLF:22	(IR:0 C)
CLE:16	(FB:3 D)	CLF:23	(IR:0 C)
CLE:17	(IS:2 C)	CLF:24	(IR:0 C)
CLE:18	(IS:2 C)	CLG:1	(EE:0 B)
CLE:19	(IA:0 B)	CLG:1	(EF:0 B)
CLE:20	(IA:2 B)	CLG:1	(EO:0 C)
CLE:21	(IA:1 D)	CLG:2	(EE:0 B)
CLE:22	(IH4:4 D)	CLG:2	(EF:0 B)
CLE:23	(NK:0 D)	CLG:2	(EO:2 B)
CLF:1	(IR:2 B)	CLG:3	(EE:3 B)

CLG:3	(EF:2 B)	CLH:4	(FG:0 C)
CLG:4	(EO:2 C)	CLH:4	(FK:2 B)
CLG:5	(EO:2 C)	CLH:5	(FB:2 C)
CLG:6	(EO:1 C)	CLH:5	(FK:2 B)
CLG:7	(EO:1 C)	CLH:6	(FB:2 D)
CLG:8	(EO:1 C)	CLH:6	(FK:2 B)
CLG:9	(EO:0 C)	CLH:7	(FB:2 D)
CLG:10	(EO:0 C)	CLH:8	(FB:2 D)
CLG:11	(EO:1 C)	CLH:9	(FB:2 D)
CLG:12	(EO:1 C)	CLH:10	(FB:3 D)
CLG:13	(EO:0 D)	CLH:11	(FB:3 D)
CLG:13	(ZA RHD:3 C)	CLH:12	(FB:3 D)
CLG:14	(EO:0 D)	CLH:13	(FM:0 B)
CLG:14	(ZA RHD:3 C)	CLH:14	(FG:0 C)
CLG:15	(EO:1 D)	CLH:15	(FG:0 C)
CLG:16	(EO:3 C)	CLH:16	(FB:2 C)
CLG:17	(EO:3 C)	CLH:17	(FB:2 C)
CLG:18	(EO:3 C)	CLH:18	(FG:1 C)
CLG:19	(BE:1 B)	CLH:19	(FG:1 C)
CLG:20	(EE:4 D)	CLH:20	(FB:1 C)
CLG:20	(EF:4 C)	CLH:21	(FB:3 D)
CLG:20	(EO:0 D)	CLH:22	(FB:3 C)
CLG:21	(EF:4 C)	CLH_R:1	(FB RHD:0 B)
CLH:1	(FB:1 C)	CLH_R:2	(FB RHD:1 B)
CLH:1	(FK:2 B)	CLH_R:3	(FB RHD:2 B)
CLH:2	(FB:1 C)	CLH_R:5	(FB RHD:2 B)
CLH:3	(FB:2 C)	CLH_R:6	(FB RHD:2 C)
CLH:3	(FK:2 B)	CLH_R:7	(FB RHD:2 C)

CLH_R:8	(FB RHD:2 C)	CLK:1	(BE:3 C)
CLH_R:9	(FB RHD:2 C)	CLK:2	(BE:3 C)
CLH_R:10	(FB RHD:2 C)	CLK:3	(BE:3 C)
CLH_R:11	(FB RHD:2 C)	CLK:4	(BE:3 C)
CLH_R:12	(FB RHD:3 C)	CLL:1	(NA_2:3 B)
CLH_R:16	(FB RHD:2 B)	CLL:2	(NA_2:3 D)
CLH_R:17	(FB RHD:2 B)	CLM:1	(BE:1 B)
CLH_R:20	(FB RHD:1 B)	CLM:2	(BE:3 B)
CLH_R:21	(FB RHD:3 C)	CLM:3	(BE:2 B)
CLH_R:22	(FB RHD:3 B)	CLM:4	(BE:2 C)
CLI:1	(EO:0 D)	CLM:5	(BE:2 C)
CLI:2	(EO:1 D)	CLM:6	(BE:3 C)
CLI:3	(EO:1 D)	CLM:7	(BE:3 C)
CLI:4	(EO:1 D)	CLM:8	(BE:1 C)
CLI:5	(EO:3 C)	CLM:9	(FA RHD:3 D)
CLI:6	(EO:3 C)	CLM:9	(FB:3 D)
CLI:7	(EO:3.C)	CLP:1	(IV:1 C)
CLI:8	(EO:3 C)	CLP:2	(IV:1 B)
CLI:9	(EO:3 C)	CLR:1	(IV:1 C)
CLI:10	(EO:3 C)	CLR:2	(IV:1 C)
CLI:11	(EO:4 C)	CLR:3	(IV:1 C)
CLI:12	(EO:4 C)	CLR:4	(IV:1 C)
CLJ:1	(BE:3 C)	CLR:5	(IV:1 C)
CLJ:2	(BE:3 C)	CLR:6	(IV:1 C)
CLJ:3	(BE:3 C)	CLR:7	(IV:1 C)
CLJ:4	(BE:3 C)	CLR:8	(IV:2 C)
CLJ:5	(BE:4 C)	CLR:9	(IV:2 C)
CLJ:6	(BE:4 C)	CLR:10	(IV:2 C)

CLR:11	(IV:2 C)	CLT:9	(IQ:1 C)
CLR:12	(IV:2 C)	CLT:10	(IQ:1 C)
CLR:13	(IV:1 B)	CLT:11	(IM:3 B)
CLR:14	(IV:1 B)	CLT:12	(IM:3 B)
CLR:15	(IV:1 B)	CLT:13	(IU:1 D)
CLR:16	(IV:1 B)	CLT:13	(IV:1 D)
CLR:17	(IV:2 B)	CLT:14	(IU:2 D)
CLR:18	(IV:2 B)	CLT:14	(IV:1 D)
CLR:19	(IV:2 B)	CLT:15	(IU:2 D)
CLR:20	(IV:2 B)	CLT:15	(IV:2 D)
CLR:21	(IV:2 B)	CLT:16	(IU:2 D)
CLS:1	(BE:1 C)	CLT:16	(IV:2 D)
CLS:2	(BE:1 C)	CLT:17	(HI:2 B)
CLS:3	(BE:1 C)	CLT:18	(HI:2 B)
CLS:4	(BE:1 C)	CLT:19	(HI:2 B)
CLS:5	(BE:1 C)	CLT:20	(HI:2 B)
CLT:1	(IH:3 B)	CLT:20	(ZA RHD:0 B)
CLT:1	(IH3:2 B)	CLT:21	(HI:4 B)
CLT:2	(IH:3 B)	CLU:1	(IR2:1 C)
CLT:2	(IH3:1 B)	CLU:3	(IR2:1 D)
CLT:3	(IH:3 C)	CLV/CLW:1	(NA_2:4 C)
CLT:3	(IH3:2 C)	CLV:1	(NA_2:3 C)
CLT:4	(IH:3 C)	CLW:1	(NA_2:3 C)
CLT:4	(IH3:2 B)	CLX:1	(NA_2:3 D)
CLT:5	(IH:3 C)	CLX/CLY:1	(NA_2:4 C)
CLT:6	(HI:3 B)	CLY:1	(NA_2:3 D)
CLT:7	(HI:3 B)	CT:1	(BZ:1 D)
CLT:8	(IQ:1 B)	CT:2	(BZ:1 D)

CT:3	(BZ:1 D)	CUA:13	(IQ:1 C)
CT:4	(BZ:1 D)	CUA:14	(IQ:1 C)
CT:5	(BZ:1 C)	CUA:15	(IH3:2 A)
CT:6	(BZ:1 C)	CUA:16	(IH3:3 B)
CT:7	(BZ:1 C)	CUA:17	(HI:1 B)
CT/TC:1	(BZ RHD:2 C)	CUA:18	(HI:1 B)
CT/TC:2	(BZ RHD:2 C)	CUA:19	(HI:1 B)
CT/TC:3	(BZ RHD:1 C)	CUA:20	(HI:1 B)
CT/TC:4	(BZ RHD:1 C)	CUA:21	(GB:0 B)
CT/TC:5	(BZ RHD:1 C)	CUB:1	(BN:1 B)
CT/TC:6	(BZ RHD:1 C)	CUB:2	(BN:3 D)
CT/TC:7	(BZ RHD:1 C)	CUB:3	(BN:1 B)
CUA:1	(GA:1 C)	CUB:4	(BN:3 B)
CUA:1	(GL2:1 A)	CUB:5	(BN:3 B)
CUA:2	(GA:4 C)	CUB:6	(BN:3 D)
CUA:2	(GL2:0 A)	CUB:7	(BN:2 D)
CUA:3	(IH:1 B)	CUB:8	(BN:2 D)
CUA:3	(IH3:3 B)	CUB:9	(BN:2 D)
CUA:4	(IH:0 B)	CUB:10	(BN:2 D)
CUA:4	(IH3:3 B)	CUB:11	(BN:3 D)
CUA:6	(IH3:2 C)	CUB:12	(KI:1 B)
CUA:7	(BN:3 C)	CUB:13	(IR:0 C)
CUA:7	(IQ:0 B)	CUB:16	(GC:3 A)
CUA:8	(KM:0 C)	CUB:17	(GC:3 B)
CUA:9	(NI:1 B)	CUB2/ CUB:12	(KI:1 B)
CUA:10	(NI:1 B)	CUB2/ CUB:13	(IR:1 C)
CUA:11	(KI:1 C)	CUB2/ CUB:16	(GC:3 A)
CUA:12	(IH3:2 B)		

CUB2/ CUB:17	(GC:4 B)	CUC:6	(IQ:1 C)
CUB/TACH:1	(BM:1 A)	CUC:7	(IQ:0 C)
CUB/TACH:2	(BM:3 C)	CUC:8	(IQ:0 C)
CUB/TACH:3	(BM:1 A)	CUC:9	(BE:1 D)
CUB/TACH:4	(BM:2 B)	CUC:10	(BE:1 D)
CUB/TACH:5	(BM:3 B)	CUC:11	(BE:1 D)
CUB/TACH:6	(BM:3 C)	CUC:18	(IH:0 D)
CUB/TACH:7	(BM:2 C)	CUC:19	(GA:1 C)
CUB/TACH:8	(BM:2 C)	CUC:20	(GA:4 D)
CUB/TACH:9	(BM:2 C)	CUC:21	(GA:4 C)
CUB/ TACH:10	(BM:2 C)	CUD:1	(IH:1 C)
CUB/ TACH:11	(BM:3 C)	CUD:2	(IH:1 C)
CUB/ TACH:12	(KI:1 C)	CUF:1	(HI:1 B)
CUB/ TACH:13	(IR:1 C)	CUF:2	(HI:1 B)
CUB/ TACH:14	(BM:2 B)	CUG:1	(NK:2 C)
CUB/ TACH:15	(BM:2 B)	CUG:2	(NK:2 C)
CUB/ TACH:16	(GC:3 B)	CUG:4	(NK:2 C)
CUB/ TACH:17	(GC:4 B)	CUG:5	(NK:3 C)
CUC:3	(IH:2 C)	CUH:2	(BE:0 D)
CUC:3	(IH3:2 D)	CUH:3	(BE:0 D)
CUC:3	(IH4:1 B)	CUH:4	(BE:0 D)
CUC:4	(IH:0 C)	CUH:5	(IH:0 C)
CUC:4	(IH3:2 D)	CUH:6	(IH:0 D)
CUC:4	(IH4:2 B)	CUI:1	(IH4:0 B)
CUC:5	(IR:0 D)	CUI:3	(IH4:0 C)
		CUJ:1	(IU:3 B)
		CUJ:2	(IU:3 B)

CUL:1	(GL2:0 C)	DDA:5	(IH3:0 D)
CUL:2	(GL2:0 C)	DDA:6	(IE:3 B)
CUL:3	(GL2:1 C)	DDA:7	(IM:1 C)
CUL:4	(GL2:1 C)	DDA:8	(IM:1 C)
CUL:5	(GL2:1 C)	DDA:9	(IM:1 C)
CUL_B:1	(GL2:2 A)	DDA:10	(IU:0 D)
CUL_B:2	(GL2:2 A)	DDA:10	(IU RHD:1 D)
CUL_B:3	(GL2:3 A)	DDA:10	(IV:1 D)
CUL_B:4	(GL2:3 A)	DDA:11	(IU:1 D)
CUL_B:5	(GL2:3 A)	DDA:11	(IU RHD:1 D)
CUL_C:1	(GL2:2 C)	DDA:11	(IV:1 D)
CUL_C:2	(GL2:3 C)	DDA:12	(IH:2 C)
CUL_C:3	(GL2:3 C)	DDA:12	(IH3:0 D)
CUL_C:4	(GL2:3 C)	DDA:13	(IE:0 C)
CUL_C:5	(GL2:3 C)	DDA:14	(IE:1 C)
CUM:1	(BN:1 B)	DDA:15	(IE:1 C)
CUM:2	(BN:1 D)	DDB:1	(IE:1 C)
CUM:3	(BN:1 B)	DDB:2	(IE:2 C)
CUN:1	(IU:2 B)	DDB:3	(IE:2 C)
CUN:2	(IU:2 B)	DDB:4	(IE:0 C)
CUN:4	(IU:2 B)	DDB:5	(IE:0 B)
CUN:5	(IU:2 B)	DDB:6	(IE:0 B)
DDA:1	(IM:1 C)	DDB:7	(IE:1 B)
DDA:2	(IE:0 B)	DDB:9	(IE:2 B)
DDA:3	(IE:1 B)	DPA:1	(IM:2 C)
DDA:3	(ZA RHD:1 B)	DPA:3	(IE:3 B)
DDA:4	(IE:2 B)	DPA:3	(ZA RHD:0 D)
DDA:5	(IH:2 C)	DPA:4	(IE:3 B)

DPA:5	(IH:2 C)	E26L/R:1	(GA4:3 D)
DPA:5	(IH3:0 D)	E26L/R:3	(GU_2:3 D)
DPA:6	(IE:3 B)	E26L/R:4	(GA4:2 C)
DPA:7	(IM:2 C)	E26L/R:4	(GA4:0 C)
DPA:8	(IM:2 C)	E26L/R:6	(GA4:0 D)
DPA:9	(IM:2 C)	E26L/R:6	(GA4:2 D)
DPA:10	(IU:1 D)	E26L/R:7	(GA4:0 C)
DPA:10	(IU RHD:0 D)	E26L/R:7	(GA4:3 C)
DPA:10	(IV:1 D)	E26L/R:8	(GA4:1 C)
DPA:11	(IU:1 D)	E26L/R:8	(GA4:3 C)
DPA:11	(IU RHD:1 D)	E26L/R:9	(GU_2:2 D)
DPA:11	(IV:1 D)	E26L/R:9	(GU_2:3 D)
DPA:12	(IH:2 C)	E26L/R:10	(GA4:0 C)
DPA:12	(IH3:0 D)	E26L/R:10	(GA4:3 C)
DS_L:1	(NU:2 C)	E26L/R:11	(GU_2:2 D)
DS_L:2	(NU:2 D)	E26L/R:11	(GU_2:3 D)
DS_R:1	(GQ:0 B)	E27:1	(GF:3 C)
DS_R:1	(NU:2 C)	E27:2	(GF:3 C)
DS_R:2	(GQ:0 C)	E27:3	(GF:3 C)
DS_R:2	(NU:2 D)	E27:4	(GF:3 C)
E03_L:-1	(NI:2 D)	E27:5	(GF:3 C)
E03_L:+1	(NI:2 D)	E27:6	(GF:3 C)
E03_R:-1	(NI:2 D)	E27:7	(GF:3 C)
E03_R:+1	(NI:2 D)	E27_1:1	(GF:0 C)
E12:1	(GA:1 C)	E27_1:2	(GF:0 C)
E12:2	(GA:4 D)	E27_1:3	(GF:1 C)
E12:3	(GA:4 C)	E27_1:4	(GF:1 C)
E26L/R:1	(GA4:0 D)	E27_1:5	(GF:1 C)

E27_1:6	(GF:1 C)	EI:15	(CJ:0 D)
E27_1:7	(GF:0 C)	EI:15	(CO:0 A)
E88L_A:1	(IH:0 C)	EI:18	(CO:1 A)
E88L_A:1	(IH4:1 C)	EI:21	(CJ:3 D)
E88L_B:1	(IH:0 D)	EI:21	(CO:3 A)
E88L_B:1	(IH4:1 C)	EI:22	(CO:4 A)
E96:1	(KE:1 D)	EI:23	(HG:0 D)
E96:4	(KE:0 D)	EI:23	(HY:2 D)
EI:1	(CJ:2 D)	EI:25	(CO:1 A)
EI:1	(CO:0 A)	EI:26	(CO:4 D)
EI:2	(CJ:1 D)	EI:27	(CJ:0 D)
EI:2	(CO:0 A)	EI:27	(CO:4 D)
EI:3	(CJ:2 D)	EI:31	(CJ:0 D)
EI:3	(CO:0 A)	EI:31	(CO:4 A)
EI:4	(CJ:2 D)	EI:33	(CJ:2 D)
EI:4	(CO:0 A)	EI:33	(CO:0 A)
EI:5	(CJ:1 D)	EI:35	(AA:2 D)
EI:5	(CO:0 A)	EI:35	(CJ:3 D)
EI:6	(CJ:2 D)	EI:35	(CO:2 A)
EI:6	(CO:0 A)	EI:37	(CJ:0 D)
EI:7	(CJ:3 D)	EI:37	(CO:3 A)
EI:7	(CO:1 A)	EI:39	(CJ:0 D)
EI:8	(CJ:1 D)	EI:39	(CO:4 A)
EI:8	(CO:0 A)	EMB:1	(IF:0 D)
EI:9	(AA:3 D)	EMB:2	(IF:0 D)
EI:10	(AA:3 D)	EPR:1	(CJ:2 B)
EI:13	(CJ:1 D)	EPR:3	(CJ:3 B)
EI:13	(CO:0 A)	EPR:4	(CJ:2 C)

EQ_A:1	(EO:4 B)	FA:11	(GB:0 A)
EQ_A:2	(EO:4 B)	FA:11	(NA:3 A)
EQ_A:3	(EO:4 B)	FA:11	(NA_2:0 A)
EQ_A:4	(EO:4 C)	FA:11	(NB:3 A)
EXT:1	(HZ:1 B)	FA:12	(BA:1 D)
EXT:2	(HZ:1 B)	FA:12	(CP:1 A)
FA:1	(BI:3 B)	FA:12	(NU:4 B)
FA:2	(FB:2 B)	FA:13	(GQ:2 C)
FA:2	(FB RHD:2 B)	FA:14	(AA:2 A)
FA:3	(FB:2 B)	FA:15	(KM:0 B)
FA:3	(FB RHD:2 B)	FA:16	(GG:1 A)
FA:4	(NU:4 B)	FA:17	(GG:1 A)
FA:5	(GA:0 C)	FA:18	(GG:1 A)
FA:5	(NI:1 A)	FA:19	(GG:1 A)
FA:6	(BA:0 C)	FA:20	(GG:0 A)
FA:7	(BI:1 C)	FA:21	(GG:0 A)
FA:8	(GA:4 C)	FB:1	(IZ:2 A)
FA:8	(NA:0 A)	FB:1	(KI:2 A)
FA:8	(NB:0 A)	FB:3	(IZ:2 A)
FA:9	(GB:3 D)	FB:3	(KI:2 B)
FA:9	(NA:0 A)	FB_B:1	(KI:2 A)
FA:9	(NB:0 A)	FB_B:3	(KI:2 B)
FA:10	(GC:1 B)	FBA:1	(BE:3 D)
FA:10	(GC RHD:1 B)	FBA:3	(BE:3 D)
FA:10	(NA:0 A)	FE:1	(ME:1 B)
FA:10	(NA_2:1 D)	FE:1	(NC:0 B)
FA:10	(NB:0 A)	FE:1	(NU:0 A)
FA:10	(NU:2 B)	FE:2	(ME:1 B)

FE:2	(NC:0 B)	FL:4	(NK:3 D)
FE:2	(NU:0 A)	FL:5	(NK:3 D)
FE:3	(ME:1 B)	FL:6	(GA:2 C)
FE:3	(NC:1 B)	FL:7	(GA:2 C)
FE:3	(NU:0 A)	FL:7	(GA4:0 C)
FE_B:1	(IF:1 A)	FL:8	(GA:1 C)
FE_B:2	(IF:1 A)	FL:8	(GA4:1 C)
FE_B:3	(IF:1 A)	FL:9	(GA:2 C)
FE_BR:1	(IF:2 A)	FL:9	(GA4:1 C)
FE_BR:2	(IF:2 A)	FL:10	(GQ:1 C)
FE_BR:3	(IF:1 A)	FL:11	(GQ:1 B)
FE_C:1	(NX:0 B)	FL:12	(GQ:1 B)
FE_C:2	(NX:0 B)	FL:13	(GU:0 D)
FE_C:3	(NX:0 B)	FL:13	(GU_2:3 C)
FE2_C:1	(NX:0 B)	FL:14	(GU:0 D)
FE2_C:2	(NX:0 B)	FL:14	(GU_2:2 C)
FE2_C:3	(NX:0 B)	FL:15	(GU:0 D)
FE2:1	(NC:1 B)	FL:15	(GU_2:2 C)
FE2:1	(NU:0 A)	FL:16	(GQ:1 C)
FE2:2	(NC:0 B)	FL:20	(BE:3 D)
FE2:2	(NU:0 A)	FL:21	(BE:2 D)
FE2:3	(NC:1 B)	FL:22	(BE:3 D)
FE2:3	(NU:0 A)	FL:23	(BE:3 D)
FL:1	(GA:2 D/GA4:0 D)	FL:25	(GA:2 D/GA4:1 D)
FL:2	(GA:2 C)	FL:26	(GA:1 C)
FL:2	(GA4:0 C)	FL:26	(GA4:1 C)
FL:3	(GA:2 C)	FL:29	(KA:0 C)
FL:3	(GA4:0 C)	FMS:1	(BX:0 D)

FMS:1	(BX:1 D)	FR:14	(GU:1 D)
FMS:2	(BX:1 D)	FR:14	(GU_2:3 C)
FMS:6	(BX:0 D)	FR:15	(GU:1 D)
FMS:9	(BX:0 D)	FR:15	(GU_2:3 C)
FMS:10	(BX:0 D)	FR:16	(GM:1 C)
FMS:12	(BX:0 D)	FR:17	(BI:2 C)
FN:1	(GA4:1 C)	FR:18	(BI:2 D)
FN:1	(GA4:3 C)	FR:25	(GA:3 D/GA4:3 D)
FN:3	(GA4:1 D)	FR:26	(GA:3 C)
FN:3	(GA4:3 D)	FR:26	(GA4:4 C)
FR:1	(GA:3 D/GA4:3 D)	FR:29	(KA:0 C)
FR:2	(GA:3 C)	FS:1	(KI:1 C)
FR:2	(GA4:3 C)	FS:2	(KI:1 D)
FR:3	(GA:3 C)	FS:3	(KI:2 D)
FR:3	(GA4:3 C)	FS_2:1	(KI:0 C)
FR:4	(NK:3 D)	FS_2:2	(KI:0 D)
FR:5	(NK:4 D)	FT:1	(IR:2 D)
FR:6	(GA:3 C)	FT:2	(IR:2 D)
FR:7	(GA:3 C)	FT:3	(IR:2 D)
FR:7	(GA4:2 C)	GA:1	(GB:3 D)
FR:8	(GA:3 C)	GA:2	(BI:1 D)
FR:8	(GA4:3 C)	GA:2	(DI:1 B)
FR:9	(GA:3 C)	GA:3	(BI:1 C)
FR:9	(GA4:3 C)	GA:3	(DI:1 B)
FR:10	(GM:0 C)	GA:4	(BA:1 B)
FR:11	(GM:0 C)	GA:4	(DI:1 B)
FR:13	(GU:1 D)	GA:5	(BA:0 B)
FR:13	(GU_2:3 C)	GA:5	(DI:1 B)

GA:6	(BA:0 C)	JV/JC:1	(DC:2 C)
GA:6	(DI:1 B)	JV/JC:2	(KA:1 D)
GA:7	(BA:0 C)	JV/JC:3	(DQ:1 B)
GA:7	(DI:1 B)	JV/JC:4	(AE:3 B)
GB:1	(BI:2 C)	JV/JC:5	(AE:3 B)
GB:1	(DI:0 B)	JV/JC:6	(AE:3 B)
GB:2	(BI:2 D)	JV/JC:7	(AC:1 D)
GB:2	(DI:0 B)	JV/JC:7	(AE:4 D)
GB:3	(BM:2 D)	JV/JC:8	(BI:3 D)
GB:4	(BM:2 D)	JV/JC:9	(AA:2 B)
GB:5	(BM:2 D)	JV/JC:10	(IX:2 B)
GB:6	(BM:2 D)	JV/JC:11	(BA:3 C)
GB:7	(DI:3 B)	JV/JC:12	(BA:3 D)
GD:2	(HZ:1 C)	JV/JC:13	(IM:3 C)
GE:1	(DI:2 B)	JV/JC:14	(DQ:1 C)
GE:2	(DI:2 B)	JV/JC:15	(HE:0 B)
GE:3	(DI:1 B)	JV/JC:16	(IM:2 A)
GE:4	(DI:1 B)	JV/JC:17	(IR2:2 C)
GE:5	(DI:2 B)	JV/JC:18	(IR2:2 C)
GE:6	(DI:2 B)	JV/JC:19	(HI:3 C)
IDA:1	(GL:1 B)	JV/JC:19	(ZA RHD:0 C)
IDA_B:1	(GL:2 B)	JV/JC:20	(AC:3 D)
IDA_C:1	(GL:2 C)	JV/JC:21	(HP:0 D)
IDA_D:1	(GL:3 B)	JV/JC:21	(HY RHD:1 B)
IDB:1	(GL:1 D)	JV/JC:22	(FU:0 D)
IDB_B:1	(GL:2 D)	JV/JC:23	(GC RHD:3 C)
IDB_C:1	(GL:2 D)	JV/JC:23	(KM:1 C)
IDB_D:1	(GL:3 B)	JV/JC:24	(IR2:2 C)

JV/JC:25	(IR2:2 C)	MA:1	(HG:0 C)
KV/KC:1	(GB:0 B)	MA:1	(HY:1 D)
KV/KC:2	(GB:0 A)	MA:3	(CJ:2 C)
KV/KC:2	(GB:0 B)	MA:4	(CJ:2 C)
KV/KC:3	(GB:0 B)	MA:5	(CJ:1 C)
KV/KC:4	(GB:0 A)	MA:6	(CJ:1 C)
LDS:1	(BA:2 D)	MA:7	(CJ:2 C)
LDS:2	(BA:2 D)	MA:8	(CJ:2 C)
LDS:4	(BA:2 D)	MA:9	(AA:3 C)
LDS1:1	(BA:2 D)	MA:10	(XC:0 C)
LDS1:2	(BA:2 D)	MA:11	(XC:0 C)
LDS1:4	(BA:2 D)	MA:13	(AA:3 C)
LI:1	(FG:0 B)	MA:15	(CJ:1 C)
LI:2	(FG:0 B)	MA:20	(AA:2 C)
LI:3	(FG:0 B)	MA:20	(CJ:3 C)
LI:4	(FG:1 B)	MA:22	(CJ:3 C)
LI:5	(FG:1 B)	MA:23	(CJ:0 C)
LI:6	(FG:1 B)	MA:24	(CJ:0 C)
LS:1	(GL2:0 C)	MA:25	(CJ:1 C)
LS:1	(GL2:2 C)	MB:1	(BI:2 D)
LS:2	(GL2:0 C)	MB:2	(BA:0 C)
LS:2	(GL2:3 C)	MB:4	(BA:1 B)
LS:3	(GL2:1 C)	MB:5	(BI:2 C)
LS:3	(GL2:3 C)	MB:8	(BI:1 D)
LS:4	(GL2:1 C)	MB:9	(BA:0 B)
LS:4	(GL2:3 C)	MB:14	(BI:1 C)
LS:5	(GL2:1 C)	MB:15	(GB:3 D)
LS:5	(GL2:3 C)	MB:16	(BA:0 C)

MC:1	(EO:0 D)	NS:10	(NX:0 D)
MC:2	(EO:1 D)	NS:11	(NX:2 C)
MC:3	(EO:1 D)	NS:12	(NX:1 A)
MC:4	(EO:1 D)	NS:13	(NX:1 C)
MC:5	(EO:1 D)	NS:14	(NX:1 C)
MC:6	(GQ:0 B)	NS:15	(NU:1 B)
MC:6	(NU:2 C)	NS:15	(NX:2 A)
MC:7	(GQ:0 C)	NS:16	(NX:3 A)
MC:7	(NU:2 D)	NS:17	(NU:1 B)
MC:8	(NK:1 C)	NS:17	(NX:3 A)
MC:9	(NK:1 D)	NS:18	(NU:3 B)
MOT:1	(HZ:2 C)	NS:18	(NX:4 C)
MOT:2	(HZ:2 C)	NS:19	(NU:4 B)
MOT:3	(HZ:1 C)	NS:19	(NX:3 A)
MOT:4	(HZ:2 C)	NS:20	(NU:3 B)
NS:1	(MF:3 D)	NS:20	(NX:2 C)
NS:2	(NU:1 C)	NS:21	(MF:3 D)
NS:3	(NX:2 C)	OBD:4	(XC:0 B)
NS:4	(MF:3 D)	OBD:5	(XC:0 B)
NS:5	(MF:3 D)	OBD:6	(XC:1 B)
NS:5	(NU:3 B)	OBD:14	(XC:1 B)
NS:6	(NU:3 B)	OBD:16	(XC:0 B)
NS:6	(NX:2 A)	OH:1	(GE:1 B)
NS:7	(NX:3 C)	OH:2	(GE:2 B)
NS:8	(NU:4 B)	OH:3	(GE:1 B)
NS:8	(NX:4 C)	OH:4	(GE:2 B)
NS:9	(NU:1 B)	OH:9	(GE:1 B)
NS:10	(NU:0 B)	OH:13	(GE:1 B)

OH:14	(GE:2 B)	PHA:1	(HI2:0 C)
OH:17	(GE:1 B)	PHA:3	(HI:0 D)
OH:18	(GE:3 B)	PHA:3	(HI2:1 C)
OH:24	(GE:1 D)	PHA:4	(HI:1 D)
PAS:1	(FP:0 C)	PHA:4	(HI2:2 C)
PAS:6	(FP:0 D)	PHA:5	(HI:0 D)
PAS:6	(ZA RHD:1 B)	PHA:5	(HI2:1 C)
PH_1:1	(HM:0 B)	PHA:6	(HI:0 D)
PH_1:2	(HM:0 B)	PHA:6	(HI2:1 C)
PH_1:3	(HM:2 B)	PHA:7	(HI:1 D)
PH_1:4	(HM:1 B)	PHA:7	(HI2:2 C)
PH_1:5	(HM:2 B)	PHA:8	(HI:1 D)
PH_1:6	(HM:2 B)	PHA:8	(HI2:1 C)
PH_1:7	(HM:2 D)	PHA:9	(HI:0 D)
PH_1:8	(HM:0 D)	PHA:9	(HI2:0 C)
PH_1:9	(HM:0 D)	PHA:10	(HI:2 D)
PH_1:10	(HM:1 B)	PHA:10	(HI2:3 C)
PH_1:11	(HM:1 B)	PHA:11	(HI2:2 C)
PH_2:1	(HP:0 B)	PHA:12	(HI:2 D)
PH_2:2	(HP:0 D)	PHA:12	(HI2:2 C)
PH_2:3	(HP:0 D)	PHA:15	(HI2:3 C)
PH_3:1	(HP:0 C)	PL:1	(NC:4 C)
PH_3:2	(HP:0 C)	PL:2	(NA:1 C)
PH_3:3	(HP:0 D)	PL:2	(NA_2:0 C)
PH_4:1	(HP:0 B)	PL:2	(NB:1 C)
PH_4:2	(HP:0 C)	PL:3	(NA:1 C)
PH_4:3	(HP:0 D)	PL:3	(NA_2:2 C)
PHA:1	(HI:0 D)	PL:3	(NB:2 C)

PL:4	(NA:1 C)	PL:17	(NC:2 C)
PL:4	(NB:1 C)	PL:17	(NU:2 C)
PL:5	(NA:2 C)	PL:18	(NA:2 C)
PL:5	(NB:2 C)	PL:18	(NB:3 C)
PL:6	(NA:3 C)	PL:19	(NC:3 C)
PL:6	(NA_2:1 C)	PL:19	(NU:3 C)
PL:6	(NB:3 C)	PL:20	(NC:3 C)
PL:7	(NC:1 C)	PL:20	(NU:3 C)
PL:7	(NU:1 C)	PL:21	(NC:3 C)
PL:8	(NA:4 C)	PL:21	(NU:3 C)
PL:8	(NB:4 C)	POS_A:1	(GL:3 B)
PL:9	(NC:1 C)	POS_B:1	(GL:3 B)
PL:9	(NU:1 C)	POS_C:1	(GL:4 B)
PL:10	(NC:2 C)	POS_D:1	(GL:4 B)
PL:10	(NU:3 C)	PT:1	(DI:1 A)
PL:11	(NA:0 C)	PT:1	(DP:1 B)
PL:11	(NA_2:2 B)	PT:2	(DI:1 A)
PL:11	(NB:0 C)	PT:2	(DP:1 B)
PL:12	(NA:1 C)	PT:3	(DI:1 A)
PL:12	(NB:0 C)	PT:3	(DP:1 B)
PL:13	(NC:2 C)	PT:4	(DI:1 A)
PL:13	(NU:1 C)	PT:4	(DP:1 B)
PL:14	(NC:2 C)	PT:6	(DI:0 A)
PL:14	(NU:1 C)	PT:6	(DP:0 B)
PL:15	(NC:2 C)	PT:7	(DI:3 A)
PL:15	(NU:2 C)	PT:7	(DP:0 B)
PL:16	(NC:2 C)	PT:8	(XC:2 D)
PL:16	(NU:2 C)	PT:9	(XC:1 D)

PT:12	(XC:2 D)	PW:17	(CJ:2 C)
PT:13	(XC:2 D)	PW:18	(AB:0 B)
PW:1	(AB:4 C)	PW:19	(IQ:4 C)
PW:1	(ZA RHD:3 C)	PW:20	(IQ:4 D)
PW:2	(AB:3 C)	PW:21	(AB:0 B)
PW:3	(AE:0 C)	R23:1	(CV:1 D)
PW:3	(AF:2 B)	R23:2	(CV:2 D)
PW:4	(AE:1 C)	R23:3	(CV:1 D)
PW:4	(AF:2 B)	R23:4	(CV:2 D)
PW:5	(AE:1 D)	R23:5	(CV:1 D)
PW:5	(AF:3 D)	R23:6	(CV:2 D)
PW:6	(AE:1 D)	RA:1	(GC:2 E)
PW:6	(AF:3 D)	RA:2	(GC:1 B)
PW:7	(AE:2 D)	RA:3	(GC:1 B)
PW:7	(AF:3 D)	RA:4	(GC:1 B)
PW:8	(AE:2 D)	RA:5	(GC:2 B)
PW:8	(AF:4 D)	RA:6	(GC:2 B)
PW:9	(BI:2 D)	RA:7	(GC:1 B)
PW:10	(BI:2 C)	RA:7	(GC RHD:1 C)
PW:11	(BI:2 C)	RA:8	(GC:1 B)
PW:12	(GB:0 D)	RA:9	(GC:2 B)
PW:13	(AB:2 B)	RA:10	(GC:2 B)
PW:13	(AB:3 C)	RA:10	(GC RHD:2 C)
PW:14	(AB:3 C)	RA:11	(GC:2 B)
PW:14	(AE:2 D)	RA:12	(BI:2 C)
PW:14	(AF:3 D)	RA:13	(BI:2 D)
PW:15	(CJ:3 B)	RA:14	(DU:3 C)
PW:16	(CJ:2 B)	RA:15	(HI:0 B)

RA:15	(HM:0 D)	RC:20	(KE:0 D)
RA:16	(HI:0 B)	RC:21	(CP:1 A)
RA:16	(HM:0 D)	RC:21	(GK:1 A)
RA:17	(DU:3 C)	RC_2:2	(GH:1 B)
RC:2	(GG:0 B)	RC_2:3	(GH:1 B)
RC:2	(GK:0 A)	RC_2:4	(GH:1 B)
RC:3	(GG:0 B)	RC_2:5	(GH:1 B)
RC:3	(GK:1 A)	RC_2:6	(GH:1 B)
RC:4	(GG:0 B)	RC_2:7	(GH:1 B)
RC:4	(GK:1 A)	RC_2:9	(GH:1 B)
RC:5	(GG:0 B)	RC_2:10	(GH:1 B)
RC:5	(GK:1 A)	RC_2:11	(GH:1 B)
RC:6	(GG:0 B)	RC_2:12	(GH:1 B)
RC:6	(GK:1 A)	RC_2:14	(GH:0 B)
RC:7	(GG:1 B)	RC_2:17	(GH:0 B)
RC:9	(GG:1 B)	RC_2:18	(GH:0 B)
RC:10	(GG:1 B)	RC_2:19	(GH:0 B)
RC:10	(GK:1 A)	RC_2:20	(GH:0 B)
RC:11	(GG:1 B)	REF:1	(IQ:3 C)
RC:12	(GG:1 B)	REF:2	(IQ:3 D)
RC:14	(GG:1 B)	REV:1	(NU:2 C)
RC:15	(GC:0 B)	RF:1	(IQ:4 C)
RC:16	(GC:2 B)	RF:4	(IQ:4 D)
RC:17	(GG:0 B)	RL:1	(KM:1 D)
RC:18	(GG:0 B)	RL:2	(KM:1 D)
RC:19	(GK:1 A)	RL:3	(NI:1 C)
RC:19	(KE:0 C)	RL:4	(NI:1 C)
RC:20	(GK:1 A)	RT:1	(DM:3 C)

RT:2	(DM:2 C)	SCR:6	(CR:3 B)
RT:3	(DM:2 C)	SCR:6	(CV:2 B)
RT:4	(DM:2 C)	SCR:7	(CR:3 B)
RT:5	(DM:2 C)	SCR:7	(CV:2 B)
RT:6	(DM:3 C)	SCR:8	(XC:3 D)
RT:7	(DM:3 C)	SCR:9	(XC:3 D)
S58:1	(BA:3 D)	SI:1	(GG:3 B)
S58:2	(BA:3 D)	SI:1	(GK:3 A)
S59:1	(BA:3 D)	SI:2	(GG:3 B)
S59:2	(BA:3 D)	SI:2	(GK:3 A)
S171:1	(DC:1 D)	SI:4	(GG:3 B)
S171:2	(DC:1 D)	SI:4	(GK:4 A)
S171:3	(DC:1 D)	SI:5	(GG:3 B)
S171:4	(DC:1 D)	SI:5	(GK:4 A)
S171:5	(DC:1 D)	SI_2:1	(GH:3 B)
S171:6	(DC:1 D)	SI_2:2	(GH:3 B)
S171:7	(DC:1 D)	SI_2:4	(GH:3 B)
S171:8	(DC:2 D)	SI_2:5	(GH:3 B)
S171:11	(DC:1 D)	SI_3:1	(CP:2 A)
S171:12	(DC:1 D)	SI_3:1	(ZA RHD:3 C)
SCR:1	(CR:0 B)	SI_3:2	(CP:2 A)
SCR:1	(CV:2 B)	SI_3:2	(ZA RHD:3 C)
SCR:2	(CR:2 C)	SI_3:4	(ZA RHD:3 C)
SCR:3	(CR:1 B)	SI_3:5	(ZA RHD:3 C)
SCR:3	(CV:1 B)	SLF:1	(NI:0 D)
SCR:4	(CR:2 C)	SLF:2	(NI:0 D)
SCR:5	(CR:2 A)	SLP:2	(AF:2 D)
SCR:5	(CV:1 B)	SLP:7	(AF:2 D)

SLR:1	(NI:1 C)	ST:3	(GK:3 A)
SLR:3	(NI:1 C)	ST_3:1	(CP:3 A)
SLR_2:1	(NI:1 C)	ST_3:1	(ZA RHD:4 C)
SLR_2:2	(NI:1 C)	SW:1	(EF:0 C)
SM_F:1	(GC:3 C)	SW:2	(EF:0 C)
SM_F:2	(GC:0 C)	SW:3	(EF:0 C)
SM_F:4	(GC:3 D)	SW:4	(EF:1 C)
SM_O:1	(GE:2 B)	SW:5	(EF:1 C)
SM_O:2	(GE:1 B)	SW:6	(EF:1 C)
SM_O:4	(GE:1 B)	SW:7	(EF:1 C)
SM_R:1	(GC:3 C)	SW:8	(EF:1 C)
SM_R:2	(GC:0 C)	SW:9	(EF:1 C)
SM_R:4	(GC:3 D)	SW:10	(EF:2 C)
SP:1	(BM:2 C)	SW:11	(EF:2 C)
SP:2	(BM:2 C)	SW:12	(EF:2 C)
SP:3	(BM:2 C)	SW:13	(EF:0 C)
SP:4	(BM:2 C)	SW:14	(EF:0 C)
SP:5	(BA:2 D)	SW:15	(EF:0 C)
SP:6	(BA:2 D)	SW:16	(EF:0 C)
SP:7	(BA:2 D)	SW:17	(EF:1 C)
SS:1	(BE:3 D)	SW:18	(EF:1 C)
SS:2	(BE:3 D)	SW:19	(EF:2 C)
SS:3	(BE:3 D)	SW:20	(EF:2 C)
SS:4	(BE:3 D)	SW_1:1	(EE:0 C)
ST:1	(GG:4 B)	SW_1:2	(EE:0 C)
ST:1	(GK:3 A)	SW_1:3	(EE:0 D)
ST:2	(GK:3 A)	SW_1:4	(EE:1 C)
ST_2:1	(GH:3 B)	SW_1:5	(EE:1 C)

SW_1:6	(EE:1 D)	SW_2:14	(EO:3 D)
SW_1:7	(EE:2 C)	SW_2:15	(EO:4 D)
SW_1:8	(EE:2 C)	SW_3:1	(EE RHD:0 D)
SW_1:9	(EE:2 D)	SW_3:2	(EE RHD:0 D)
SW_1:10	(EE:3 C)	SW_3:3	(EE RHD:3 D)
SW_1:11	(EE:3 C)	SW_3:4	(EE RHD:1 D)
SW_1:12	(EE:3 D)	SW_3:5	(EE RHD:1 D)
SW_1:13	(EE:0 C)	SW_3:6	(EE RHD:3 D)
SW_1:14	(EE:0 C)	SW_3:7	(EE RHD:2 D)
SW_1:15	(EE:1 C)	SW_3:8	(EE RHD:2 D)
SW_1:16	(EE:1 C)	SW_3:9	(EE RHD:4 D)
SW_1:17	(EE:2 C)	SW_3:10	(EE RHD:3 D)
SW_1:18	(EE:2 C)	SW_3:11	(EE RHD:3 D)
SW_1:19	(EE:3 C)	SW_3:12	(EE RHD:4 D)
SW_1:20	(EE:3 C)	SW_3:13	(EE RHD:0 D)
SW_2:1	(EO:3 D)	SW_3:14	(EE RHD:0 D)
SW_2:2	(EO:3 D)	SW_3:15	(EE RHD:1 D)
SW_2:3	(EO:1 D)	SW_3:16	(EE RHD:1 D)
SW_2:4	(EO:1 D)	SW_3:17	(EE RHD:2 D)
SW_2:5	(EO:2 D)	SW_3:18	(EE RHD:2 D)
SW_2:6	(EO:2 D)	SW_3:19	(EE RHD:3 D)
SW_2:7	(EO:2 D)	SW_3:20	(EE RHD:3 D)
SW_2:8	(EO:2 D)	SW_4:1	(EO RHD:3 D)
SW_2:9	(EO:3 D)	SW_4:2	(EO RHD:3 D)
SW_2:10	(EO:3 D)	SW_4:3	(EO RHD:1 D)
SW_2:11	(EO:4 D)	SW_4:4	(EO RHD:1 D)
SW_2:12	(EO:4 D)	SW_4:5	(EO RHD:2 D)
SW_2:13	(EO:3 D)	SW_4:6	(EO RHD:2 D)

SW_4:7	(EO RHD:2 D)	SX:12	(GK:2 C)
SW_4:8	(EO RHD:2 D)	SX:15	(GG:3 C)
SW_4:9	(EO RHD:3 D)	SX:15	(GK:3 C)
SW_4:10	(EO RHD:3 D)	SX:18	(GG:1 C)
SW_4:11	(EO RHD:4 D)	SX:20	(GG:0 C)
SW_4:12	(EO RHD:4 D)	SX:21	(GG:0 C)
SW_4:13	(EO RHD:3 D)	SX:24	(GG:1 C)
SW_4:14	(EO RHD:3 D)	SX:24	(GK:3 C)
SW_4:15	(EO RHD:4 D)	SX:25	(GG:1 C)
SX:1	(GG:1 C)	SX:29	(GG:1 C)
SX:1	(GK:2 C)	SX:30	(GG:4 C)
SX:2	(GG:1 C)	SX:30	(GK:3 C)
SX:3	(GG:3 C)	SX:31	(GG:2 C)
SX:3	(GK:3 C)	SX:31	(GK:2 C)
SX:4	(GG:0 C)	SX_2:1	(GR:1 B)
SX:4	(GK:2 C)	SX_2:2	(GR:1 B)
SX:5	(GG:1 C)	SX_2:3	(GR:2 B)
SX:6	(GG:0 C)	SX_2:4	(GR:0 B)
SX:6	(GK:2 C)	SX_2:5	(GR:1 B)
SX:7	(GG:3 C)	SX_2:6	(GR:0 B)
SX:7	(GK:3 C)	SX_2:7	(GR:3 B)
SX:8	(GG:3 C)	SX_2:8	(GR:3 B)
SX:8	(GK:3 C)	SX_2:10	(GR:0 B)
SX:10	(GG:0 C)	SX_2:11	(GR:0 B)
SX:10	(GK:2 C)	SX_2:12	(GR:0 B)
SX:11	(GG:0 C)	SX_2:15	(GR:2 B)
SX:11	(GK:2 C)	SX_2:18	(GR:1 B)
SX:12	(GG:0 C)	SX_2:20	(GR:0 B)

SX_2:21	(GR:0 B)	TA:7	(GA4:0 B)
SX_2:24	(GR:1 B)	TA:8	(GA:1 C)
SX_2:25	(GR:1 B)	TA:8	(GA4:1 B)
SX_2:29	(GR:1 B)	TA:9	(GA:2 C)
SX_2:30	(GR:3 B)	TA:9	(GA4:1 B)
SX_2:31	(GR:2 B)	TA:10	(GQ:1 C)
SX_3:18	(GF:1 B)	TA:11	(GQ:1 B)
SX_3:24	(GF:1 D)	TA:12	(GA:2 D)
SY:1	(EF:3 C)	TA:12	(GA4:1 D)
SY:2	(EF:3 C)	TA:13	(GU:0 C)
SY:3	(EF:2 C)	TA:13	(GU_2:3 C)
SY:4	(EF:2 C)	TA:14	(GU:0 C)
SY:5	(EF:3 C)	TA:14	(GU_2:2 C)
SY:6	(EF:3 C)	TA:15	(GU:0 C)
SY:7	(EF:3 C)	TA:15	(GU_2:2 C)
SY:8	(EF:3 C)	TA:16	(GQ:1 C)
SY:9	(EF:3 C)	TA:17	(NK:3 C)
SY:21	(EF:3 C)	TA:19	(GA:1 C)
TA:1	(GA:2 D)	TA:19	(GA4:1 B)
TA:1	(GA4:0 D)	TB:1	(GA:3 D)
TA:2	(GA:2 C)	TB:1	(GA4:3 D)
TA:2	(GA4:0 B)	TB:2	(GA:3 C)
TA:3	(GA:2 C)	TB:2	(GA4:3 B)
TA:3	(GA4:0 B)	TB:3	(GA:3 C)
TA:4	(KA:0 C)	TB:3	(GA4:3 B)
TA:5	(NK:3 C)	TB:4	(KA:0 C)
TA:6	(GA:2 C)	TB:5	(NK:3 C)
TA:7	(GA:2 C)	TB:6	(GA:3 C)

TB:7	(GA:3 C)	TC:6	(BZ:1 C)
TB:7	(GA4:2 B)	TC:7	(BZ:1 C)
TB:8	(GA:3 C)	TCO:1	(BZ:0 B)
TB:8	(GA4:3 B)	TCO:2	(BZ:0 B)
TB:9	(GA:3 C)	TD:1	(IE:0 C)
TB:9	(GA4:3 B)	TD:2	(IE:0 D)
TB:10	(GM:0 C)	TD:3	(IE:0 C)
TB:11	(GM:0 C)	TD:4	(IE:1 C)
TB:12	(GA:3 D)	TD:5	(IE:1 C)
TB:12	(GA4:3 D)	TD:6	(BI:3 C)
TB:13	(GU:1 C)	TD:7	(BI:3 C)
TB:13	(GU_2:3 C)	TD:8	(GM:2 D)
TB:14	(GU:1 C)	TD:9	(GM:2 C)
TB:14	(GU_2:3 C)	TD:10	(GM:3 C)
TB:15	(GU:1 C)	TD:11	(GM:2 C)
TB:15	(GU_2:3 C)	TD:12	(GM:2 C)
TB:16	(GM:1 C)	TD:13	(BI:3 D)
TB:17	(NK:4 C)	TD:15	(IE:1 C)
TB:18	(BI:2 C)	TD:16	(IE:1 D)
TB:19	(GA:3 C)	TD:17	(IE:1 C)
TB:19	(GA4:4 B)	TD:18	(IE:2 C)
TB:20	(GQ:0 C)	TD:19	(IE:2 C)
TB:21	(BI:2 D)	TD:20	(BI:3 C)
TC:1	(BZ:2 C)	TD:21	(BI:3 C)
TC:2	(BZ:2 C)	TM:1	(OA:2 D)
TC:3	(BZ:2 C)	TM:2	(OA:2 D)
TC:4	(BZ:1 C)	TM:3	(OA:2 B)
TC:5	(BZ:1 C)	TM:4	(OA:2 B)

TM:5	(OA:1 D)	X02:5	(GG:3 E)
TMA:1	(OA:2 C)	X02:6	(GG:3 E)
TMA:3	(OA:1 C)	X02:7	(GG:3 E)
TMA:5	(OA:2 B)	X02_1:1	(GK:3 E)
TMA:6	(OA:2 C)	X02_1:2	(GK:3 E)
TMA:7	(OA:2 B)	X02_1:3	(GK:3 E)
TS:1	(FG:0 A)	X02_1:4	(GK:3 E)
TS:2	(FG:0 A)	X02_1:5	(GK:3 E)
TS:3	(FG:0 A)	X02_1:6	(GK:3 E)
TS:4	(FG:1 A)	X02_1:7	(GK:3 E)
TS:5	(FG:1 A)	X02_2:1	(GH:3 D)
TS:6	(FG:1 A)	X02_2:1	(GK:3 E)
TU:1	(CR:2 A)	X02_2:2	(GH:3 D)
TU:1	(CV:2 D)	X02_2:2	(GK:3 E)
TU:2	(CR:2 A)	X02_2:3	(GH:3 D)
TU:2	(CV:2 D)	X02_2:3	(GK:3 E)
TU:3	(CR:2 B)	X02_2:4	(GH:3 D)
TU:3	(CV:2 D)	X02_2:4	(GK:3 E)
TU:4	(CR:2 B)	X02_2:5	(GH:3 D)
TU:4	(CV:2 D)	X02_2:5	(GK:3 E)
WL:1	(NA_2:2 C)	X02_2:6	(GH:3 D)
WL:2	(NA_2:2 C)	X02_2:6	(GK:4 E)
WL:3	(NA_2:3 C)	X02_2:7	(GH:3 D)
WL:4	(NA_2:3 C)	X02_2:7	(GK:4 E)
X02:1	(GG:4 E)	X02_3:1	(GR:3 E)
X02:2	(GG:3 E)	X02_3:2	(GR:2 E)
X02:3	(GG:3 E)	X02_3:3	(GR:2 E)
X02:4	(GG:3 E)	X02_3:4	(GR:2 E)

X02_3:5	(GR:2 E)	X03_2:11	(GH:1 D)
X02_3:6	(GR:3 E)	X03_2:12	(GH:1 D)
X02_3:7	(GR:3 E)	X03_2:13	(GH:1 D)
X03:1	(GG:0 E)	X03_2:14	(GH:0 D)
X03:2	(GG:0 E)	X03_2:15	(GH:0 D)
X03:3	(GG:1 E)	X04:1	(GG:2 E)
X03:4	(GG:1 E)	X04:1	(GK:0 D)
X03:5	(GG:0 E)	X04:2	(GG:1 E)
X03:6	(GG:0 E)	X04:2	(GK:1 D)
X03:7	(GG:0 E)	X04:3	(GG:2 E)
X03:8	(GG:1 E)	X04:3	(GK:0 D)
X03:9	(GG:1 E)	X04:4	(GG:2 E)
X03:10	(GG:1 E)	X04:4	(GK:0 D)
X03:11	(GG:1 E)	X04:5	(GG:2 E)
X03:12	(GG:1 E)	X04:5	(GK:0 D)
X03:13	(GG:1 E)	X04:6	(GG:2 E)
X03:14	(GG:0 E)	X04:6	(GK:1 D)
X03:15	(GG:0 E)	X04:7	(GG:2 E)
X03_2:1	(GH:1 D)	X04:7	(GK:1 D)
X03_2:2	(GH:1 D)	X04_1:1	(GK:2 E)
X03_2:3	(GH:0 D)	X04_1:2	(GK:2 E)
X03_2:4	(GH:1 D)	X04_1:3	(GK:2 E)
X03_2:5	(GH:1 D)	X04_1:4	(GK:2 E)
X03_2:6	(GH:1 D)	X04_1:6	(GK:2 E)
X03_2:7	(GH:1 D)	X04_1:7	(GK:2 E)
X03_2:8	(GH:1 D)	X04_2:1	(GH:2 D)
X03_2:9	(GH:1 D)	X04_2:1	(GK:2 E)
X03_2:10	(GH:1 D)	X04_2:2	(GH:2 D)

X04_2:2	(GK:2 E)	X06:6	(NA:3 D)
X04_2:3	(GH:2 D)	X06:6	(NA_2:1 D)
X04_2:3	(GK:2 E)	X06:6	(NB:3 D)
X04_2:4	(GH:2 D)	X06:7	(NC:1 D)
X04_2:4	(GK:2 E)	X06:7	(NU:1 D)
X04_2:5	(GH:2 D)	X06:8	(NA:4 C)
X04_2:5	(GK:2 E)	X06:8	(NC:4 C)
X04_2:6	(GH:3 D)	X06:9	(NC:1 D)
X04_2:6	(GK:2 E)	X06:9	(NU:1 D)
X04_2:7	(GH:3 D)	X06:10	(NC:2 D)
X04_2:7	(GK:2 E)	X06:10	(NU:3 D)
X05:1	(GG:3 E)	X06:11	(NA:0 D)
X05:2	(GG:2 E)	X06:11	(NA_2:2 B)
X05:3	(GG:2 E)	X06:11	(NB:0 D)
X05:4	(GG:2 E)	X06:12	(NA:1 D)
X05:5	(GG:3 E)	X06:12	(NB:0 D)
X05:7	(GG:3 E)	X06:13	(NC:2 D)
X06:1	(NC:4 D)	X06:13	(NU:1 D)
X06:2	(NA:1 D)	X06:14	(NC:2 D)
X06:2	(NA_2:0 D)	X06:14	(NU:1 D)
X06:2	(NB:1 D)	X06:15	(NC:2 D)
X06:3	(NA:1 D)	X06:15	(NU:1 D)
X06:3	(NA_2:2 D)	X06:16	(NC:2 D)
X06:3	(NB:2 D)	X06:16	(NU:2 D)
X06:4	(NA:1 D)	X06:17	(NC:2 D)
X06:4	(NB:1 D)	X06:17	(NU:2 D)
X06:5	(NA:2 D)	X06:18	(NA:2 D)
X06:5	(NB:2 D)	X06:18	(NB:3 D)

X06:19	(NA:3 D)	X15_2:7	(GK:2 C)
X06:19	(NB:3 D)	X62:1	(NB:1 D)
X06:20	(NC:3 D)	X62:5	(NB:2 D)
X06:20	(NU:3 D)	X62:6	(NB:2 D)
X06:21	(NC:3 D)	X63:1	(GR:1 E)
X06:21	(NU:3 D)	X63:2	(GR:0 E)
X06:22	(NC:3 D)	X63:3	(GR:0 E)
X06:22	(NU:3 D)	X63:4	(GR:0 E)
X06:24	(NA:3 D)	X63:5	(GR:0 E)
X06:24	(NA_2:3 B)	X63:6	(GR:0 E)
X06:24	(NB:3 D)	X63:7A	(GR:0 E)
X06:30	(NA:3 D)	X63:7B	(GR:1 E)
X06:30	(NB:3 D)	X63:8A	(GR:0 E)
X06:31	(NA:4 D)	X63:8B	(GR:0 E)
X06:31	(NB:4 D)	X63:9	(GR:1 E)
X15_1:1	(GK:2 D)	X63:10	(GR:1 E)
X15_1:2	(GK:2 D)	X63:11	(GR:1 E)
X15_1:3	(GK:2 D)	X63:12	(GR:1 E)
X15_1:4	(GK:2 D)	XA:1	(GB:0 B)
X15_1:5	(GK:2 D)	XA:1	(GC RHD:3 B)
X15_1:6	(GK:2 D)	XA:2	(GB:1 B)
X15_1:7	(GK:2 D)	XA:3	(GB:1 B)
X15_2:1	(GK:2 C)	XA:4	(GB:1 B)
X15_2:2	(GK:2 C)	XA:5	(GB:1 B)
X15_2:3	(GK:2 C)	XA:6	(GB:2 B)
X15_2:4	(GK:2 C)	XA:7	(GB:2 B)
X15_2:5	(GK:2 C)	XA:8	(GB:2 B)
X15_2:6	(GK:2 C)	XA:9	(GB:2 B)

XA:10	(GB:0 B)	XC:12	(KI:1 C)
XA:11	(GB:1 B)	XD:1	(BU:1 C)
XA:12	(GB:1 B)	XD:1	(BU:3 D)
XA:13	(GB:1 B)	XD:1	(BX:1 D)
XA:14	(GB:1 B)	XD:2	(IH3:0 C)
XA:15	(GB:2 B)	XD:3	(AB:1 D)
XA:16	(GB:2 B)	XD:4	(EE:4 D)
XA:16	(GC RHD:3 B)	XD:4	(EF:4 D)
XA:17	(GB:2 B)	XD:4	(EO:0 D)
XA:18	(GB:2 B)	XD:5	(DU:2 E)
XB:1	(AA:4 D)	XD:5	(EO:0 D)
XC:1	(BM:1 C)	XD:6	(FB:3 D)
XC:2	(XC:0 B)	XD:6	(FI:0 C)
XC:3	(IH:3 C)	XD:6	(FK:1 D)
XC:4	(HP:0 E)	XD:7	(GU:2 D)
XC:5	(HG:0 D)	XD:7	(GU_2:4 C)
XC:5	(HY:2 D)	XD:8	(IX:2 D)
XC:5	(HY RHD:2 D)	XD:9	(BI:1 D)
XC:6	(IK:0 D)	XD:10	(OA:2 D)
XC:7	(BM:1 C)	XD:11	(AA:3 B)
XC:7	(BN:1 D)	XD:12	(NC:0 C)
XC:8	(AE:2 C)	XD:12	(NU:2 D)
XC:8	(AF:4 B)	XD:12	(NX:0 B)
XC:8	(NK:1 D)	XE:1	(AA:3 D)
XC:9	(DC:0 D)	XE:1	(AC:2 D)
XC:9	(DM:0 E)	XF:1	(FB:1 B)
XC:10	(HP:1 E)	XF:1	(FB RHD:1 B)
XC:11	(NU:2 D)	XF:2	(FQ:1 B)

XF:3	(ME:3 B)	XJ:15	(BA:0 B)
XF:3	(MF:3 B)	XJ:16	(IH:3 B)
XF:4	(KE:0 C)	XJ:16	(IH3:3 B)
XF:5	(FQ:0 B)	XJ:17	(IH:1 B)
XF:6	(FQ:1 B)	XJ:18	(IH:2 B)
XF:7	(KE:0 C)	XJ:18	(IH3:3 B)
XF:8	(KE:0 C)	XK:1	(BA:0 B)
XF:9	(AA:3 B)	XK:2	(CR:1 A)
XF:10	(FB:1 B)	XK:2	(CV:0 A)
XF:12	(KE:0 B)	XK:3	(GM:2 A)
XF:13	(BA:0 B)	XK:4	(BA:0 B)
XF:15	(FB RHD:1 B)	XK:5	(CR:1 A)
XF:15	(FB RHD:1 B)	XK:5	(CV:1 A)
XF:18	(GB:3 C)	XK:6	(GM:1 D)
XG:1	(AC:0 A)	XK:7	(BA:0 A)
XH:1	(AC:2 A)	XK:7	(DC:0 B)
XJ:1	(GM:1 C)	XK:8	(BA:0 B)
XJ:2	(GM:1 D)	XK:9	(DM:1 B)
XJ:3	(HG:0 B)	XK:10	(HY:0 B)
XJ:4	(GQ:1 A)	XK:11	(DC:0 B)
XJ:6	(HG:0 B)	XK:11	(DM:0 B)
XJ:7	(GQ:2 A)	XK:12	(DC:1 B)
XJ:10	(GA:0 A)	XK:12	(DM:1 B)
XJ:11	(HI:3 A)	XK:13	(HY:0 B)
XJ:12	(BA:1 B)	XK:15	(IQ:2 B)
XJ:13	(GA:0 A)	XK:16	(HY:1 B)
XJ:14	(IH:1 B)	XK:16	(HY RHD:1 B)
XJ:14	(IH3:3 B)	XK:17	(CJ:0 B)

XK:18	(CJ:0 B)	XM:5	(CJ:4 B)
XL:1	(BA:1 B)	XM:6	(AC:3 D)
XL:2	(IH4:3 A)	XM:7	(AC:3 D)
XL:3	(BA:1 B)	XM:8	(AC:3 D)
XL:4	(OA:2 B)	XM:9	(AC:3 D)
XL:5	(BA:1 B)	XM:10	(AC:3 D)
XL:6	(BA:1 B)	XM:11	(AC:2 C)
XL:7	(DM:0 B)	XM:12	(BI:3 B)
XL:8	(BI:0 B)	XM:13	(AC:2 B)
XL:9	(OA:2 B)	XM:14	(AC:2 C)
XL:10	(DM:0 B)	XM:15	(BI:3 B)
XL:11	(BI:0 B)	XM:16	(AC:2 B)
XL:12	(BA:1 B)	XM:17	(AC:2 B)
XL:13	(DQ:0 B)	XM:18	(BI:3 B)
XL:14	(DU:1 B)	XO:1	(AC:0 A)
XL:15	(BA:1 D)	XS:1	(AC:2 A)
XL:16	(BA:1 D)	XT:1	(AC:1 A)
XL:16	(CP:1 C)	Y18GH:1	(DP:2 B)
XL:17	(BA:1 D)	Y18GH:2	(DP:2 B)
XL:18	(BA:1 D)	Y18GH:4	(DP:2 A)
XM:1	(AA:2 B)		
XM:1	(CJ:3 B)		
XM:2	(AA:2 B)		
XM:2	(CJ:3 B)		
XM:3	(AA:2 B)		
XM:3	(CJ:4 B)		
XM:4	(AA:2 A)		
XM:5	(AA:2 A)		

List of components

A01	Fuse and Relay Centre (1000)	A18	Control unit, roof hatch (IQ:0 C) (1006E)
A02L	Fuse holder, 6-fuses (GB:0 C) (1000)	A20	Control unit, Immobiliser (IM:3 D) (1000)
A02P	Fuse holder, 6-fuses (ME:2 C/MF:2 C) (1000)	A21	Control unit, EBS (Electronic Brake System) (EO:0 C/EO RHD:0 B) (1007C)
A02X	Fuse holder, 6-fuses (ME:3 C/MF:3 C) (1000)	A26	Control unit, DACU (Driver Assistance Control Unit) (BE:1 B) (1007C)
A03	Instrument cluster (BI:0 B/CP:2 C/ZA RHD:2 B) (1000)	A27	Control unit, LCM (Light Control Module) (GA:0 B/GA4:1 A/GB:0 C/GC:0 A/GC RHD:0 A/GM:1 E) (1000)
A04A	Refrigerator (IQ:3 C) (1006E/1007B)	A28B	Control unit, ADR main switch, integrated power relay (AE:0 C/AF:2 C) (1435B)
A04B	Refrigerator (IQ:4 C) (1460)		
A06L	El. adjustable seat (IA:2 B) (1007A)	A29	Telephone handset, secrecy receiver (IX:1 B) (1000)
A06R	El. adjustable seat (IA:0 B) (1007B)	A31	Control unit, burglar alarm (NK:0 C) (1000)
A07	Radio (IU:0 C/IU RHD:0 C) (1000)		
A09	Telephone (IX:0 C) (1000)	A32	Control unit, parking heater (HM:0 C) (1062)
A11	Control unit, door lock (IM:1 B) (1000)	A33	Tachograph (BM:1 B) (1000)
A12	Control unit, ABS (Anti-lock Brake System) (EE:0 B/EE RHD:0 B/EF:0 C) (1007C)	A33B	Tachograph (BN:1 B) (1006A)
		A34B	Control unit, climate unit (HG:0 A) (1000)
A13B	Control unit, TECU (automatic transmission) (DI:0 C) (1494)	A36	Control unit, BBM (Body Builder Module) (NC:1 B/NU:1 A/NX:1 B) (1000)
A13C	Control unit, TECU (automatic transmission) (DM:0 C) (1007C)	A39	Control unit, camera (IZ:0 C) (1000)
A13E	Control unit, TECU (automatic transmission) (DP:0 C)	A41	Component group transmission. Contains B23D, B138D and Y17D (DM:2 B/DP:0 D) (1403/1499)
A14	Control unit, EMS (Engine Management System) (CO:2 C) (1030)	A42B	Component group transmission. Contains B26, Y21, Y22, Y23 and Y26B (DP:2 D) (1494/1499)
A15	Control unit, SRS (Supplementary Restraint System) (IS:0 B) (1000)	A43	Electric fan control (B32 fan speed sensor, Y35 visco clutch) (CO:0 D) (1030)
A16	Control unit, ECS (Electronic Controlled air Suspension) (FA:0 C/FA RHD:0 C/ FB:0 C/FB RHD:0 C/FG:0 D/FG:2 D/) (1007C)	A45	Fuel pre filter (B52 water level sensor, R10 heater, Y38 water drain solenoid) (CO:3 B) (1030)
A17	Control unit, VECU (Vehicle ECU) (BA:0 C) (1000)	A59	Control unit, RAS (Rear Axle Steering) (FO:1 B) (1493)

A60	Control unit, LDWS (Lane Departure Warning System) (BE:0 E) (1006A)	B02A	Thermostat, parking heater (HI:1 A) (1006A/1006E)
A62	Control unit, ADS (AdBlue Dosing System) (CV:1 C) (1510)	B02B	Thermostat, parking heater (HI:2 A) (1007A)
A77	Control unit, Tyre pressure monitoring (OA:1 B) (1508)	B03_A	Sensor, footbrake valve (EO:0 D) (1504)
A80	Airdryer, electronical controlled (FQ:1 C) (1056)	B04	Sensor, engine speed, crankshaft (CO:1 D) (1030)
A94	Control unit, FMS Gateway (Fleet Management System) (BX:0 B) (1000)	B05	Sensor, engine speed, camshaft (CO:1 D) (1030)
A96	Control unit, Roof cooler (HZ:1 B) (1018)	B06	Sensor, air pressure, air tank (BA:2 D) (1000)
A106	Fuse holder, 3-fuses, not mainswitch dependent (AB:3 B) (1000)	B07	Sensor, fuel level (BI:2 C) (1040)
A109	Control unit, GSECU (Gearshift ECU) (DC:1 C) (1000)	B09B	Sensor, oil temperature, gearbox (BI:2 C) (1494)
A116	Control unit, amplifier (IV:1 B) (1007B)	B10C	Sensor, oil level (FO:0 C) (1493)
A122	Control unit , toll collect OBU (BZ:0 C/BZ RHD:0 C) (1006A)	B12	Sensor, tachograph/speedometer (BM:2 D) (1494/1499)
A123	Control unit toll collect DSRC (BZ:1 B/BZ RHD:1 B) (1000)	B12B	Sensor, tachograph/speedometer (BM:1 D) (1494)
A124	Component group engine (K65 power relay, starter motor pre-relay M04 starter motor) (AA:1 D/CO:2 A)	B13	Sensor, wheel speed, lhs. 1:st front axle (EF:0 D) (1086)
		B13A	Sensor, wheel speed, lhs. 1:st front axle (EE:0 D) (1086)
A132	Control unit, alcolock (IK:0 B) (1000)	B13B	Sensor, wheel speed, lhs. 1:st front axle (EP:0 C/EP:2 C) (1086)
A133	Handset, alcolock (IK:3 C) (1000)		
A137	Control module, ACM (Adblue Control Module) (CR:0 C) (1510)	B14	Sensor, wheel speed, rhs. 1:st front axle (EF:0 D) (1086)
A139	Fuseholder, 3-fuses (IR2:0 B) (1000)	B14A	Sensor, wheel speed, rhs. 1:st front axle (EE:1 D) (1086)
A149	TESP Telematics Extended Service Platform (BU:0 C) (1000)	B14B	Sensor, wheel speed, rhs. 1:st front axle (EP:1 C/EP:2 C) (1086)
A150	TGW, Telematics Gateway (BU:2 C) (1000)	B15	Sensor, wheel speed, lhs. 1:st driven rear axle (EF:1 D) (1086)
A151	Fuse holder, 3-fuses, (BU:0 B) (1000)	B15A	Sensor, wheel speed, lhs. 1:st driven rear axle (EE:2 D) (1086)
A152	SID, Secondary Info Display (BU:0 D/IZ:0 E) (1000)	B15B	Sensor, wheel speed, lhs. 1:st driven rear axle (EP:1 E/EP:2 E) (1086)
A188	FM signal splitter (BU:1 B) (1000)		
B01	Sensor, flame, parking heater (HM:0 E)		

B16	Sensor, wheel speed, rhs. 1:st driven rear axle (EF:2 D) (1086)	B29B	Sensor, chassis level, lhs. rear axle (FA:3 D) (1072/1086)
B16A	Sensor, wheel speed, rhs. 1:st driven rear axle (EE:3 D) (1086)	B30	Sensor, chassis level, rhs. rear axle (FA:3 D) (1072)
B16B	Sensor, wheel speed, rhs. 1:st driven rear axle (EP:1 E/EP:2 E) (1086)	B32	Sensor, engine cooling fan speed (Included in A43) (CO:0 B)
B17	Sensor, wheel speed, lhs. 2:nd driven rear axle (EF:2 D) (1086)	B37	Sensor, boost pressure and boost temperature (CO:1 D) (1030)
B17	Sensor, wheel speed, lhs. 2:nd driven rear axle (EP:1 E) (1086)	B37A	Sensor, boost temperature (CO:1 D) (1030)
B17B	Sensor, wheel speed, lhs. 2:nd driven rear axle (EP:3 C) (1086)	B37B	Sensor, boost pressure (EGR Mixer position) (CO:1 D) (1030)
B18	Sensor, wheel speed, rhs. 2:nd driven rear axle (EF:3 D) (1086)	B39	Sensor, air filter pressure and air filter temperature (CO:1 B) (1030)
B18	Sensor, wheel speed, rhs. 2:nd driven rear axle (EP:1 E) (1086)	B40A	Sensor, brake lining wear indicator, lhs. 1:st front axle (EP:2 C) (1086)
B18B	Sensor, wheel speed, rhs. 2:nd driven rear axle (EP:3 C) (1086)	B40B	Sensor, brake lining wear indicator, lhs. 1:st front axle (EP:0 C) (1086)
B19	Sensor, wheel speed, lhs. 2:nd front axle (EP:0 C) (1086)	B41A	Sensor, brake lining wear indicator, rhs. 1:st front axle (EP:2 C) (1086)
B20	Sensor, wheel speed, rhs. 2:nd front axle (EP:1 C) (1086)	B41B	Sensor, brake lining wear indicator, rhs. 1:st front axle (EP:1 C) (1086)
B21	Sensor, coolant temperature, engine (CO:1 B) (1030)	B42A	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:2 E) (1086)
B22	Sensor, outdoor temperature (BI:2 C) (1503)	B42B	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:0 E) (1086)
B23B	Sensor, oil temperature, retarder (DI:2 B) (1494)	B43A	Sensor, brake lining wear indicator, rhs. 1:st driven rear axle (EP:2 E) (1086)
B23C	Sensor, oil temperature, retarder (DM:3 B)	B43B	Sensor, brake lining wear indicator, rhs. 1:st driven rear axle (EP:2 E) (1086)
B24	Sensor, air pressure, bogie lift bellow (FA:0 D) (1072)	B44A	Sensor, brake lining wear indicator, lhs. 2:nd driven rear axle (EP:2 C) (1086)
B25	Sensor, accelerator pedal (BA:4 D) (1000)	B44B	Sensor, brake lining wear indicator, lhs. 2:nd driven rear axle (EP:0 E) (1086)
B26B	Sensor, clutch position (DP:2 D)	B45A	Sensor, brake lining wear indicator, rhs. 2:nd driven rear axle (EP:3 C) (1086)
B27	Sensor, battery charging (BI:2 C) (1435A/1435B)	B45B	Sensor, brake lining wear indicator, rhs. 2:nd driven rear axle (EP:0 E) (1086)
B28	Sensor, chassis level, front axle (FA:2 D) (1072)		

B46B	Sensor, brake lining wear indicator, lhs. 2:nd front axle (EP:0 C) (1086)	B63	Microphone, (handsfree) (IU:3 A) (1006A)
B47B	Sensor, brake lining wear indicator, rhs. 2:nd front axle (EP:1 C) (1086)	B66	Sensor, temperature EGR (CO:2 B) (1030)
B49	Sensor, steering angle (EO:3 A) (1000)	B67	Rear view camera (IZ:2 D) (1000)
B49F	Sensor, steering angle (FO:1 D) (1493)	B68	Sensor, output shaft speed, gearbox (DI:3 D) (1494)
B49R	Sensor, steering angle (FO:2 D) (1493)	B69B	Sensor, coolant temperature, retarder (DM:3 B) (1403)
B50	Sensor, yaw-rate (EO:4 B) (1507)	B69C	Sensor, coolant temperature, retarder (DP:0 D) (1499)
B51	Sensor, fuel pressure (CO:2 B) (1030)	B70	Sensor, wheel speed, lhs., pusher axle (EP:3 E) (1086)
B52	Sensor, water level (CO:3 B)	B71	Sensor, wheel speed, rhs., pusher axle (EP:3 E) (1086)
B53	Sensor, temperature, parking heater (HM:1 E)	B72	Sensor, wheel speed, lhs., tag axle (EP:4 E) (1086)
B54	Sensor, crank case pressure (CO:1 B) (1030)	B73	Sensor, wheel speed, rhs., tag axle (EP:4 E) (1086)
B55	Sensor, air pressure, suspension bellows, 3:rd axle (FA:0 D) (1072)	B74B	Sensor, brake lining wear indicator, lhs., pusher axle (EP:2 E) (1086)
B56	Sensor, air pressure, suspension bellows, front axle (FA:1 D) (1072)	B75B	Sensor, brake lining wear indicator, rhs., pusher axle (EP:3 E) (1086)
B57	Sensor, air pressure, suspension bellows, lhs. rear (FA:1 D) (1072)	B76B	Sensor, brake lining wear indicator, lhs., tag axle (EP:3 E) (1086)
B60DD	Loudspeaker (IU:0 D/IU RHD:0 D/IV:1 D) (1083)	B77B	Sensor, brake lining wear indicator, rhs., tag axle (EP:3 E) (1086)
B60DP	Loudspeaker (IU:1 D/IU RHD:1 D/IV:1E) (1083)	B80	Handsfree, Loudspeaker, Microphone (IX:0 B) (1007A/1007B)
B60LF	Loudspeaker (IU:0 D/IU RHD:0 D/IV:2 E) (1000)	B85	Sensor, temp, downstream particle filter (CR:0 D) (1510)
B60LR	Loudspeaker (IU:1 D/IV:1 D) (1007A)	B87	Sensor, turbo speed (CO:2 B) (1030)
B60RF	Loudspeaker (IU:1 D/IU RHD:1 D/IV:2 E) (1000)	B90	Transmitter, movement sensor (NK:2 D) (1006B/1006E)
B60RR	Loudspeaker (IU:2 D/IV:2 E) (1007A)	B91	Receiver, movement sensor (NK:3 D) (1006B/1006E)
B61L	Loudspeaker, treble (IU:0 D/IU RHD:0 D/IV:2 D) (1000)	B96	Sensor, NOx (CAN based) (CR:3 B/CV:1 B) (1510)
B61R	Loudspeaker, treble (IU:1 D/IU RHD:1 D/IV:3 D) (1000)		

B96B	Sensor, NOx (CAN based) (CR:2 B) (1510)	B187	Sensor, after treatment fuel pressure (CO:3 B) (1030)
B97	Sensor, exhaust temp (before catalyst) (CV:3 D) (1510)	B207	Sensor, oil cooling jet pressure (CO:0 B) (1030)
B97D	Sensor, exhaust temp (before catalyst) (CR:1 D) (1510)	B209	Sensor, rainsensor (GM:3 D) (1000)
B98	Sensor, exhaust temp (after catalyst) (CV:3 D) (1510)	B212	Radar, LCS (Lane Change Support) (BE:3 E) (1007A/1007B)
B98D	Sensor, exhaust temp (after catalyst) (CR:0 D) (1510)	B213	Sensor, pressure, butterfly valve back-pressure (CO:4 B) (1030)
B100	Sensor, air pressure, suspension bellows, tridem (FA:0 D) (1072)	B217	Sensor, Diff. pressure (DI:3 B) (1494)
B115	Sensor, DPF pressure (CR:1 D) (1510)	B229	Sensor, Adblue level, temp, quality (CR:2 B) (1510)
B118	Sensor, oil pressure (CO:1 B) (1030)	B271	Microphone, TGW2 (BU:2 D) (1000)
B119	Sensor, oil level and oil temp (CO:1 D) (1030)	D01	Time delay relay, bogie lift, axle load limiter (FK:3 A) (1007C)
B120	Radar ACC, Adaptive Cruise Control (BE:2 D) (1502)	E01	Lamp, full beams (GA:2 C/GA:3 C) (1502/1503)
B122	Sensor, exhaust temp, engine mounted (CO:1 A) (1030)	E01L/R	Lamp, full beams (GA4:0 C/GA4:3 C)
B138B	Sensor, Control pressure retarder (DI:3 B) (1494)	E02	Lamp, dipped beams (GA:2 D/GA:3 D) (1502/1503)
B138C	Sensor, Control pressure retarder (DM:2 B)	E03	Lamp, dipped beams (GA4:0 C/GA4:3 C)
B142B	Sensor, AdBlue level and temperature (CV:2 D) (1510)	E03_A	Lamp, spot light (GA:2 C/GA:3 C) (1502/1503/1047)
B152	Sensor, brake airpressure, front (BI:3 C) (1504)	E03_B	Lamp, spot light (NI:2 C)
B153	Sensor, brake airpressure, rear (BI:3 C) (1504)	E03_L	Lamp, spot light (NI:2 D)
B154	Sensor, water level roof cooler (HZ:2 C) (1018)	E03_R	Lamp, spot light (NI:2 D)
B166	Sensor, EGR Differential pressure (Venturi) (CO:1 D) (1030)	E03_C	Lamp, spot light (NI:2 A) (1006A)
B166	Sensor, EGR Differential pressure (Venturi) (CO:1 D) (1030)	E03_D	Lamp, spot light (NI:3 A) (1006A)
B175	Sensor, chassis level, rear axle (BA:2 E) (1499)	E05	Lamp, 5:th wheel light (GH:0 D/GK:1 B/KE:0 D) (1063)
B184	Loudspeaker, subwoofer (IV:3 D) (1007B)	E06	Lamp, reversing light (GC:1 D/GC:2 D/GF:1 C) (1040)
B184	Loudspeaker, subwoofer (IV:3 D) (1007B)	E07	Lamp, fog light (GA:2 D/GA:3 D) (1502/1503)

E07L/R	Lamp, fog light (GA4:1 C/GA4:3 C)	E19C	Lamp, identification light, roof (GL:1 C/ GL:2 C) (1436)
E08	Lamp, parking light, front (GA:1 D/GA:3 D) (1502/1503)	E19L	Lamp, identification light, roof (GL:1 C/ GL:2 C) (1436)
E08L/R	Lamp, parking light, front (GA4:1 C/GA4:3 C)	E19R	Lamp, identification light, roof (GL:1 C/ GL:2 C) (1436)
E09	Lamp, brake light (GC:1 D/GC:2 D) (1040)	E21	Lamp, rear fog light (GC:1 D/GC:2 D) (1040)
E10	Lamp, tail light (GC:1 D/GC:2 D) (1040)	E22	Lamp, roof sign illumination (KI:0 C/ KI:0D) (1436)
E11L_C	Lamp, side marker light (GC:0 D) (1077)	E22L	Lamp, roof sign illumination (KI:3 D)
E11L_F	Lamp, side marker light (GC:0 D) (1077)	E22M	Lamp, roof sign illumination (KI:3 C)
E11L_R	Lamp, side marker light (GC:0 D) (1077)	E22R	Lamp, roof sign illumination (KI:3 B)
E11R_C	Lamp, side marker light (GC:3 D) (1077)	E23	Lamp, luggage compartment illumination (IH4:3 C) (1007A)
E11R_F	Lamp, side marker light (GC:3 D) (1077)	E27L_1	Tail lamp module (GC:1 D) (1040)
E11R_R	Lamp, side marker light (GC:3 D) (1077)	E27L_2	Tail lamp module (GE:1 C) (1040)
E11R_W	Lamp, side marker light (GC:3 D) (1077)	E27L_3	Tail lamp module (GF:3 C) (1040)
E12L	Lamp, roof position light (GA:4 D) (1006A/ 1006E/1436)	E27L_4	Tail lamp module (GF:0 C) (1040)
E12R	Lamp, roof position light (GA:1 D) (1006A/ 1006E/1436)	E27R_1	Tail lamp module (GC:2 D) (1040)
E13	Lamp, direction indicator (GA:2 C/GA:3 C/GC:1 D/GC:2 D) (1040/1502/1503)	E28	Parking heater, ADR (HI2:0 C/HM:0 D) (1007A/1062)
E13L/R	Lamp, direction indicator (GA:0 C/GA4:2 C)	E29C	Lamp, external speed indication (GL:0 C/ GL2:1 D/GL2:3 D) (1436)
E14_A	Lamp, beacon warning lamp (KM:2 D) (1047)	E29L	Lamp, external speed indication (GL:0 D/ GL2:0 D/GL2:3 D) (1436)
E14_AR	Lamp, beacon warning lamp (KM:1 C) (1047)	E29R	Lamp, external speed indication (GL2:1 D/GL2:3 D) (1436)
E14_B	Lamp, beacon warning lamp (KM:1 D) (1047)	E32ATC	Climate unit (HY:2 C/HY RHD:2 C) (1000)
E14_BR	Lamp, beacon warning lamp (KM:2 C) (1047)	E32ECC	Climate unit (HG:1 C) (1000)
E18_LB	Lamp, reading light (IH:0 D/IH3:1 D/IH4:1 C) (1006D/1006E)	E33LF	Lamp, additional load lamps (reverse lamps) (NA:0 D/NB:0 D) (1506A)
E18_RB	Lamp, reading light (IH:1 D/IH3:3 D/IH4:3 C) (1006D/1006E)	E33LR	Lamp, additional load lamps (reverse lamps) (NA:1 D/NB:1 D) (1506A)

E33RF	Lamp, additional load lamps (reverse lamps) (NA:1 D/NB:1 D) (1506A)	E87R	Lamp, interior light, reading light, front shelf (IH3:3 D) (1006A)
E33RR	Lamp, additional load lamps (reverse lamps) (NA:1 D/NB:1 D) (1506A)	E88L	Lamp, interior light, snake lamp (IH:0 D/ IH3:2 D/IH4:1 C) (1006D/1006E)
E34	Lamp, body builder centre light (IH:3 D/ IH3:0 D/ZA RHD:0 D) (1000)	E88R	Lamp, interior light, snake lamp (IH:1 D/ IH3:2 D/IH4:2 C) (1006D/1006E)
E39	Lamp, Licence Plate Illumination (GF:3 B) (1040)	E89	Lamp, interior light, overall storage, mid-section (IH3:1 D) (1006A)
E39L	Lamp, Licence Plate Illumination (GE:2 C) (1040)	E90	Lamp, interior light, map/reading light, midsection (IH3:1 D) (1006A)
E39R	Lamp, Licence Plate Illumination (GE:2 C) (1040)	E91DS	Lamp, interior light, door (IH:2 D/IH3:0 D) (1083)
E73	7th injector (CO:1 D) (1030)	E91PS	Lamp, interior light, door (IH:2 D/IH3:0 D) (1083)
E79L	Lamp, roof position light, rear, left (GL:3 C) (1436)	E92	Lamp, interior light, drawer/floor light (IH:2 D/IH3:0 D) (1000)
E79R	Lamp, roof position light, rear, right (GL:4 C) (1436)	E93L	Lamp, interior light, compartment light, front (IH3:4 D) (1006A)
E81	Lamp, static corner light (GA:2 C/GA:3 C) (1502/1503)	E93R	Lamp, interior light, compartment light, front (IH3:4 D) (1006A)
E82	Parking heater, UADR (HI:0 D) (1007A)	E94L	Lamp, position light, sunvisor (GL2:0 D/ GL2:2 D)
E83L	Headlight module (GA:1 C) (1502)	E94R	Lamp, position light, sunvisor (GL2:1 D/ GL2:4 D)
E83R	Headlight module (GA:2 C) (1503)	E95	Lamp, working, roof (NA_2:4 D)
E84L	Lamp, direction indicator, LED (GA:1 D/ GA4:1 C) (1502)	E95L	Lamp, working, roof (NA_2:3 C) (1007A)
E84R	Lamp, direction indicator, LED (GA:3 D/ GA4:4 C) (1503)	E95R	Lamp, working, roof (NA_2:3 C) (1007A)
E85L	Lamp, interior light, roof (IH:1 D/IH3:2 D/ IH4:2 C) (1006B/1006E)	G01A	Battery (AA:0 D/AB:1 D/AE:0 D/AF:1 C)
E85R	Lamp, interior light, roof (IH:2 D/IH3:2 D/ IH4:2 C) (1006B/1006E)	G01B	Battery (AA:0 D/AB:1 D/AE:0 D/AF:1 C)
E86L	Lamp, interior light, reading light, lower bunk (IH:0 D/IH3:1 D/IH4:1 C) (1006D/ 1006E)	G02	Alternator (AA:3 D) (1476)
E86R	Lamp, interior light, reading light, lower bunk (IH:1 D/IH3:3 D/IH4:2 C) (1006D/ 1006E)	H01	Horn, air-operated (GQ:1 B) (1502)
E87L	Lamp, interior light, reading light, front shelf (IH3:3 D) (1006A)	H02	Horn (GQ:1 B) (1502)
		H03	Reverse warner, acoustic (GC:1 D/GC:2 D/GF:0 C) (1040)
		H06	Siren (NK:3 D) (1502/1503)

K01	Relay, starting switch, radio position (AC:3 C) (1000)	K25	Relay, light sign (KI:1 C) (1000)
K02	Relay, EMS (Engine Management System) (BA:1 A) (1000)	K26A	Relay, foldable rear view mirror arm, Japan (IF:0 C) (1000)
K03	Relay, starter motor (AA:2 B/CJ:4 B) (1000)	K26B	Relay, foldable rear view mirror arm, Japan (IF:1 C) (1000)
K04	Relay, body builder fuse box (kl.15) (ME:2 A) (1000)	K30	Relay, beacon warning light (KM:0 B) (1000)
K05	Relay, I-shift/Powertronic/Retarder (DC:0 A/DM:0 A) (1000)	K35	Relay, headlamp high pressure wash (GM:0 B) (1000)
K06	Relay, fan climate unit (HY:0 B/HY RHD:0 B) (1000)	K37	Relay, parking light (NA:1 C/NB:0 C) (1000)
K07	Relay, intermittent wiper (GM:1 C) (1000)	K38	Relay, body builder preparation, pressure sel./switch 2/free (NA:1 C/NA_2:0 C/NB:1 C) (1000)
K08	Relay, gearbox area inhibitor (BA:1 A) (1000)	K39	Relay, body builder preparation, plough light, spotlights (NA:1 C/NB:1 C) (1000)
K09	Relay, interior lamps (IH:2 A/IH3:3 A) (1000)	K40	Relay, body builder preparation (NA:3 C/NA_2:1 C/NB:3 C) (1000)
K10	Relay, fifth wheel-, working-light (KE:0 C) (1000)	K41	Relay, body builder preparation, swap-body (NA:2 C/NB:2 C) (1000)
K11	Relay, air suspension (FB:1 B) (1000)	K42	Relay, body builder preparation, spotlights/free (NI:1 B) (1000)
K12	Relay, reverse light, trailer (GB:4 D) (1000)	K43	Relay, body builder preparation, external start/free (NC:3 C) (1000)
K13	Relay, alternator controlled (AA:4 B) (1000)	K45A	Relay, body builder preparation, dual speed (NU:2 B) (1000)
K14	Time delay relay, bogie lift, A-ride (FI:1 B/FK:1 C) (1000)	K45B	Relay, body builder preparation, dual speed (NU:2 C) (1000)
K15	Time delay relay, bogie lift, A-ride, with axle load limiter (FK:2 C) (1000)	K48	Power relay, engine preheating (CJ:3 C) (1435A/1435B)
K16	Relay, bogie lift, A-ride, with axle load limiter (FK:1 C) (1000)	K49	Power relay, bogie lift motor (FI:3 B/FK:3 D) (1037)
K20	Relay, D+ short-circuit, (ADR-trucks only) (AE:4 D) (1000)	K51	Power relay, battery main switch (AB:0 C/CS:0 C) (1435A)
K21	Relay, el. adjustable seat (IA:2 B) (1000)	K61	Relay, auxiliary revers light, truck (NA:0 C/NA_2:3 B/NB:0 C) (1000)
K22	Relay, climate fan, 1:st speed (by parking heater) (HY:1 B/HY RHD:1 B) (1000)	K63	Relay, ACC Adaptive cruise control (BE:1 B) (1000)
K23	Relay, cab tilt (KA:0 C) (1000)		
K24	Relay, central lubrication (FU:0 B) (1000)		

K64	Relay, man. main switch BBOX-EF (AB:1 C) (1000)	M09PS	Motor, door lock (IM:2 D) (1083)
K65	Power relay, starter motor pre-relay (AA:1 D/CO:2 B) (1030)	M10	Motor, roof hatch (IQ:0 D)
K66	Relay, tail lift indication (NB:2 C) (1000)	M11	Motor, cab tilt pump (KA:0 D) (1502/1503)
K67	Relay, rainsensor, high speed wiper (GM:3 C) (1000)	M12	Motor, seat fan (IA:0 C/IA:2 C)
K68	Relay, power outlets (IR2:1 A) (1000)	M13	Motor, coolant pump, parking heater (HM:2 E/HP:0 C) (1062)
K69	Relay, fuel heater, thermoline (FX:0 C) (1000)	M14	Motor, central lubrication pump (FU:0 C) (1401)
K70A	Relay, ADR/SLP (AF:0 B) (1435)	M17	Motor, foldable rear view mirror arm, Japan (IF:0 D) (1470)
K70B	Relay, ADR/SLP (AF:0 D) (1435)	M27	Motor, roof cooler fan (HZ:1 C)
L01	Reactor, light sign illumination (KI:0 D)	M28	Motor, washer, roof cooler (HZ:2 C) (1018)
L01L	Reactor, light sign illumination (KI:3 D)	M29	Motor, fan in dash board (HE:0 C) (1000)
L01M	Reactor, light sign illumination (KI:3 C)	M41	Motor, pump, Adblue (CR:2 D) (1510)
L01R	Reactor, light sign illumination (KI:3 B)	R01	Heater, engine preheat (CO:0 D) (1030)
M01	Motor, windscreen wiper (GM:2 C) (1504)	R02L	Heater, rear-view mirror (IE:0 D) (1504)
M02	Motor, windscreen washer pump (GM:0 D) (1503)	R02R	Heater, rear-view mirror (IE:1 D) (1504)
M03	Motor, headlamp high pressure washer pump (GM:1 D) (1503)	R03	Heater, seat (IA:0 C/IA:2 C)
M04	Motor, starter motor (AA:1 D/CO:2 A) (1476)	R04B	Cigarette lighter (IQ:3 C) (1000)
M05	Motor, hydraulic bogie lift pump unit (FI:3 B/FK:3 C) (1037)	R05	Heater, air dryer (FQ:0 C) (1056)
M06DS	Motor, window winder (IE:2 C) (1083)	R07	Glow plug, parking heater (HI:3 E/HI2:3 D/HM:1 E)
M06PS	Motor, window winder (IE:3 C) (1083)	R10	Heater, fuel pre filter (Included in A45) (CO:2 B)
M07	Motor, parking heater fan (HI:1 E/HI2:2 D/HM:2 E)	R11	Heater, coffee maker (ME:1 B) (1000)
M08	Motor, levelling control, headlights (GA:1 C/GA:2 C) (1502/1503)	R14	Termination resistor (XB:2 D) (1007C)
M08L/M08R	Motor, levelling control, headlights (GU_2:2 E/GU_2:3 E)	R17	Resistor (AB:2 B/AE:3 C) (1000)
		R18	Heater, electronic controlled air dryer (FQ:1 C)
M09DS	Motor, door lock (IM:1 D) (1083)	R21	Termination resistor (OA:3 C) (1000)
		R23A	Heater, AdBlue hose (CV:1 D) (1510)

R23B	Heater, AdBlue hose (CV:2 D) (1510)	S05B	Switch, interior light, selector type (IH:3 B/IH3:1 B) (1007A)
R23C	Heater, AdBlue hose (CV:2 D) (1510)	S05C	Switch, interior light, selector type (IH3:2 B) (1006A)
R23D	Heater, AdBlue hose (CV:1 D) (1510)		
R23J	Heater, AdBlue hose (CV:1 D) (1510)	S06	Stalk switch, windscreen wiper, selector type (BI:3 B/GM:2 B) (1000)
R25	Resistor (GU_2:3 B)	S07	Switch, engine brake, selector type (BA:3 B) (1000)
R26	Resistor (GU_2:4 B)		
R33	Termination resistor (BE:2 D) (1502)	S08	Switch, differential gear lock, rear wheels (DU:1 B) (1000)
R35	Termination resistor (XC:2 C)	S09	Switch, differential gear locks, inter axles and rear wheels, selector type (DU:1 B) (1000)
R36	Heater, AdBlue filter housing (CV:0 E) (1510)		
R37	Termination resistor, Can-bus (BE:2 D) (1000)	S10	Switch, sign light, roof (KI:1 B) (1006A)
R43	Termination resistor (XC:3 D) (1000)	S11	Switch, bogie lift, selector type (FI:0 B/FK:0 B/FL:0 B) (1000)
R45	Termination resistor (BE:3 D) (1007A/1007B)	S11A	Switch, bogie lift, selector type (FB:3 A/FA RHD:2 A) (1000)
R46	Heater, fuel hose, thermoline (FX:0 D) (1458)	S14A	Switch, push button, horn (GQ:1 D)
		S14B	Switch, push button, horn (GQ:1 D)
R47	Termination resistor (DI:1 B) (1494)	S15	Switch, starting (AC:1 B/AE:0 B/AF:0 A) (1000)
R49	Resistor (IU:1 A) (1000)		
R50	Termination resistor (CR:3 C)	S16	Switch, push button, air horn (GQ:2 D)
R51	Heater, hose, AdBlue (CR:3 D) (1510)	S17	Switch, front wheel drive (DU:2 B) (1000)
R52	Heater, hose, AdBlue (CR:3 D) (1510)	S18	Switch, differential gear lock, front (DU:2 B) (1000)
R53	Heater, hose, AdBlue (CR:3 D) (1510)	S19	Switch, extra (NA:3 B/NA_2:2 C/NB:3 B) (1000)
S01	Switch, main lighting, selector type (GA:0 A/GU:1 A/GU_2:4 B) (1000)	S20	Switch, 3:rd axle lock (FO:3 B) (1000)
S02	Stalk switch, full-/dipped beam, direction indicator (BA:2 B/GA:2 A) (1000)	S21A	Switch, parking heater (HI:3 B/ZA RHD:0 B) (1000)
S03	Switch, loading lamps/working lamps (KE:1 B/ZA RHD:2 B) (1000)	S21B	Switch, parking heater (HI:3 B) (1007A)
S04	Switch unit, climate fan (HY:1 A/HY RHD:1 A) (1000)	S23	Switch, roof hatch, selector type (IQ:0 B) (1006A)
S05A	Switch, interior light, selector type (IH:3 B) (1000)	S23B	Switch, roof hatch, selector type (IQ:1 B) (1007A)

S24	Stalk switch, retarder, selector type (BA:3 B) (1000)	S45R	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)
S25	Switch unit, cruise control (BA:2 B/GA:2 A) (1000)	S46	Pressure switch, bogie lift indicator, NO. (FI:2 D/FK:3 E) (1037)
S26A	Switch, cab tilt pump (KA:0 B) (1000)	S47	Position switch, low split indicator, NO. (BI:1 D) (1494)
S26B	Switch, cab tilt pump (KA:0 D) (1502/1503)	S48A	Pressure switch, brake light, NO. (ABS/UABS) (GB:3 B) (1401)
S28A	Switch, power take off (DQ:0 B) (1000)	S48B	Pressure switch, brake light, NO. (ABS/UABS trailer control valve) (GB:3 B) (1401)
S30	Switch unit, multi-function display (BI:3 B/GM:2 B) (1000)	S48C	Pressure switch, brake light, NO. (ABS/UABS trailer control valve) (GB:3 A) (1000)
S31	Switch, TCS (Traction Control System) (EO:1 A) (1000)	S49	Position switch, reverse lamps, NO (GB:3 D) (1494)
S32	Switch, brake hold (EO:1 B) (1000)	S52_L	Proximity switch, cab lock, NO. (BI:1 C) (1007A)
S33	Switch, trailer brake (EO:0 B) (1000)	S52_R	Proximity switch, cab lock, NO. (BI:1 D) (1007B)
S34	Switch unit, steering wheel push buttons (IS:1 D) (1000)	S53	Position switch, front-wheel drive indication, NO. (DU:4 C) (1458)
S36DS	Switch unit, door functions (IE:0 B) (1083)	S54	Position switch, differential gear lock, front-wheels, NO. (DU:4 C) (1458)
S36PS	Switch unit, door functions (IE:3 B) (1083)	S55	Thermal switch (HP:0 C/IA:0 C/IA:2 C) (1062)
S37	Switch, rear view camera, camera activation (IZ:1 B) (1000)	S56	Thermal switch, bogie lift, NC (FI:3 C/FK:3 D) (1037)
S38	Switch, ADR, emergency switch, cab (AE:1 B/AF:3 A) (1000)	S57L	Position switch, luggage compartment lighting, NC. (IH4:3 D) (1007A)
S39	Switch, ADR, emergency switch, exterior (AE:1 C/AF:3 C) (1007A)	S57R	Position switch, luggage compartment lighting, NC. (IH4:3 D) (1007B)
S39R	Switch, ADR, emergency switch, exterior (AF:3 C) (1007A)	S58	Position switch, clutch pedal, NO. (BA:3 D) (1000)
S40	Switch, rear view camera, camera selection (IZ:2 B)	S59	Position switch, brake pedal, NO. (BA:3 D) (1000)
S43	Pressure switch, parking brake indicator, NC. (BA:1 D) (1000)	S60A	Pressure switch, oil, power steering, NC. (FP:0 C) (1493)
S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)		

S60B	Pressure switch, oil, power steering, NC. (FP:0 C) (1493)	S79D	Switch, additional work lamps (reverse lamps), manual turn on (NA:0 B/NA_2:4 B/NB:0 B) (1000)
S61	Position switch, seat belt lock, NC. (IA:1 C/IA:3 C)	S80	Position switch, front hatch (NK:1 D) (1504)
S63	Position switch, low range gear (BA:0 B) (1494)	S83	Switch, container lock (NA:2 B/NB:2 B) (1000)
S64	Pressure switch, air pressure, parking brake tank, NC. (EO:1 B) (1000)	S84	Switch, tachograph mode (BN:0 C) (1006A)
S66_L	Switch unit, ECS (electronic controlled susp.), full air suspension (FB:2 E) (1007A)	S86	Switch, foldable rear view mirror arm, Japan (IF:1 B) (1000)
S66_R	Switch unit, ECS (electronic controlled susp.), full air suspension (FA RHD:2 E) (1007B)	S88L	Position switch, door, NC (NK:0 D) (1007A)
S68	Sensor, coolant level (CO:2 B) (1030)	S88R	Position switch, door, NC (NK:0 D) (1007B)
S69	Proximity switch, bogie lift position, NO. (FK:1 D) (1037)	S95	Switch, Panic alarm (NK:2 A) (1000)
S70	Position switch, flow sensor, power-steering, NC. (FP:0 C) (1493)	S96	Switch, Reduced set, Alarm (NK:2 B) (1000)
S71	Pressure switch, compressor charging, NO. (BA:0 D) (1056)	S128	Switch, Axle pressure divider (FB:3 B/FB RHD:3 A) (1000)
S73	Switch, acoustic reverse warning (GC:4 A) (1006A)	S169	Switch, battery main switch (AB:2 C) (1435)
S73_2	Switch, acoustic reverse warning (GC RHD:3 B) (1006A)	S171	Switch, GLU (Gearlever unit) (DC:1 D) (1007A/1007B)
S74	Switch, short stop cab heater (HP:0 B) (1000)	S187	Switch, night driving light roof (IH3:0 B) (1006A)
S75	Switch, beacon warning light (KM:0 B) (1000)	S188	Switch, night driving light dash (IH3:0 B) (1000)
S76	Switch, spotlights (NA:4 B/NB:4 B) (1000)	S202	Switch, LDWS (Lane Departure Warning System) (BE:0 B) (1000)
S76A	Switch, spotlights (NI:4 C) (1006A)	S203	Switch, BBOX-EF manual el/mek (AB:1 C) (1460)
S77	Switch, emergency call (BU:3 D) (1000)	S210	Switch, ID-lamps (GL:2 B/GL2:3 B) (1006A)
S79A	Switch, additional work lamps (reverse lamps), manual turn on (NA:1 B/NA_2:1 C/NB:1 B) (1000)	S212	Switch, tail lift (NB:1 B) (1000)
S79A_2	Switch, additional work lamps (reverse lamps), manual turn on (NA_2:0 C)	S220	Switch, static corner light (GA:3 A) (1000)
S79B	Switch, additional work lamps (reverse lamps), manual turn on (NA:2 B) (1000)	S221	Switch, door lock/unlock (IM:3 A) (1007A)

S222L	Switch, interior light, compartment light, front (IH3:4 D) (1006A)	V11	Diode (CP:2 B) (1000)
S222R	Switch, interior light, compartment light, front (IH3:4 D) (1006A)	V25	Diode (IH:4 B) (1000)
S227	Switch, fuel heater, thermoline (FX:0 B) (1000)	V27	Diode (DQ:1 C) (1000)
S228	Switch, tridem bogie control (FB:2 A) (1000)	V28	Diode (DQ:1 C) (1000)
U01_A	Modulator, EBS, left front (EP:0 B) (1086)	V32	LED, indicator, LCS (Lane Change Support) (BE:3 C) (1000)
U02_A	Modulator, EBS, right front (EP:1 B) (1086)	V33	Diode (CP:1 B)
		V34	Diode (NA_2:1 D)
U03_A	Modulator, EBS, rear axle (EP:2 D) (1086)	V35	Diode (HP:0 D) (1000)
U03_B	Modulator, EBS, rear axle (EP:0 D) (1086)	V36	Diode (IM:0 C) (1000)
		V37	Diode (IM:1 C)
U03_C	Modulator, EBS, rear axle (EP:2 B) (1086)	V38	Diode (ME:4 B)
U04_A	Modulator, EBS, pusher axle (EP:2 D) (1086)	W01	Antenna (BU:1 B)
		W02	Antenna, immobiliser (IM:3 C) (1000)
U05_A	Modulator, EBS, trailer (EO:3 B) (1401)	W06	Antenna (BU:3 B)
U06	Voltage converter (GK:0 D) (1063)	W12	Antenna (BU:3 B)
U06B20	Voltage converter (IR:2 B) (1007C)	X01	Connector, vehicle diagnostics (XA:0 C) (1000)
U06R11	Voltage converter (IR:0 B) (1007C)		
U07_A	Modulator, EBS, tag axle (EP:3 D) (1086)	X02	Trailer connection, ABS/EBS (1063)
U08_A	Modulator, EBS, front (EP:2 B) (1086)	X03	Trailer connection, 15-pole unit (1063)
U10	Voltage converter, 12V ABS Trailer (CP:3 B) (1007C)	X04	Trailer connection, 7-pole unit, 24 N (1063)
V02	Diode module (AE:2 B) (1000)	X05	Trailer connection, 7-pole unit, 24 S (1063)
V03	Diode (GG:3 B/ZA RHD:3 B) (1000)	X06	Connector, 31-pole, in lhs. frame side, for body builder preparations (1505)
V04	Diode (FI:0 D/FK:0 D) (1037)		
V05	Diode (FK:2 D) (1000)	X07C	Socket, 12V (IR:2 D) (1000)
V07	LED, indicator, Alarm (NK:2 C) (1000)	X08	Contact reel, air bag (IS:0 C) (1000)
V08	Diode (NU:2 B) (1000)	X09	Slip contact, horn (GQ:1 C) (1000)
V10	Diode (CP:1 B) (1000)	X10	B+ pass through, cab (AC:0 B) (1000)

X25	Power connector, bogie lift/extra equipment (AA:1 B) (1037)	Y11	Solenoid valve unit, ABS, lhs. front (EE:0 D/EF:0 D) (1086)
X54	Power connector, Engine (B+) (AA:1 D) (1030)	Y11_A	Solenoid valve unit, ABS, lhs. front (EO:3 D) (1086)
X55	Plug, start aid (AA:1 C) (1435)	Y12	Solenoid valve unit, ABS, rhs. front (EE:1 D/EF:1 D) (1086)
X63	Trailer connection, VBG 14 (1063)	Y12_A	Solenoid valve unit, ABS, rhs. front (EO:4 D) (1086)
X66	Connector, USB, Audio (IU:3 D) (1000)	Y13	Solenoid valve unit, ABS, lhs. rear (EE:2 D/EF:1 D) (1086)
X67	Connector, USB, AUX (IU:3 A) (1000)	Y14	Solenoid valve unit, ABS, rhs. rear (EE:3 D/EF:2 D) (1086)
X74F	Power outlet, 24V (IR2:0 D) (1000)	Y15	Solenoid valve unit, ABS, rhs. rear (EF:3 D) (1086)
X74R	Power outlet, 24V (IR2:1 D) (1007A)	Y16	Solenoid valve unit, ABS, rhs. rear (EF:3 D) (1086)
X75	Split connector, ground (YA:0 D) (1006A/1006E)	Y17B	Solenoid valve, retarder (DI:3 D) (1494)
X79L	Connector, 12V, TV preparation kit (IR:0 D) (1006E)	Y17C	Solenoid valve, retarder (DM:2 B)
X79R	Connector, 12V, TV preparation kit (IR:1 D)	Y18A	Solenoid valve, PTO (Power Take Off) (DQ:0 D) (1401)
X80L	Connector, AUX, Audio, TV preparation kit (IU:2 A) (1006E)	Y18B	Solenoid valve, PTO (Power Take Off) (DI:4 B) (1494)
X80R	Connector, AUX, Audio, TV preparation kit (IU:2 A)	Y18C	Solenoid valve, PTO (Power Take Off) (NC:0 D/NU:0 C/NX:0 D) (1401)
Y02	Solenoid valve, differential lock, rear wheels (DU:1 D) (1401)	Y18G	Solenoid valve, PTO (Power Take Off) (DP:2 B) (1499)
Y03	Solenoid valve, differential lock, inter axles, rear (DU:1 D/ZA RHD:3 B) (1401)	Y18H	Solenoid valve, PTO (Power Take Off) (DP:2 B) (1499)
Y05	Solenoid valve, bogie lift (FI:0 D/FK:0 D) (1037)	Y25	Solenoid valve unit, level control, air suspension (FA:1 B) (1072)
Y05A	Solenoid valve, bogie lift (FL:0 D) (1037)	Y25B	Solenoid valve unit, level control, air suspension (FA:2 B) (1072)
Y05B	Solenoid valve, bogie lift (FL:1 D) (1037)	Y30C	Solenoid valve unit, gearbox (DI:0 D) (1494)
Y06	Solenoid valve, range inhibitor (BA:0 B) (1494)	Y31	Solenoid valve, area inhibitor (BA:1 B) (1494)
Y08	Solenoid valve, front-wheel drive (DU:2 D) (1458)	Y32	Fuel dosing pump, parking heater (HI:0 A/HM:0 D) (1040)
Y09	Solenoid valve, differential lock, front axle (DU:2 D) (1458)		
Y10	Solenoid valve, 3:rd axle lock (FM:0 C) (1072)		

Y33	Solenoid valve, UI (Unit Injectors) (CO:3 D) (1030)	Y72	Solenoid valve, Airhorn (GQ:0 B) (1504)
Y34	Actuator, EGR system (Lisk) (CO:1 D) (1030)	Y80	Solenoid valve, AdBlue dosing unit (CR:1 B/CV:3 D) (1510)
Y35	Solenoid valve, engine cooling fan (Included in A43) (CO:0 B)	Y81B	Solenoid valve, AdBlue tank heating (CR:1 D/CV:0 D) (1510)
Y37	Solenoid valve unit, AVU (CO:3 B) (1030)	Y88	Solenoid valve, trailing axle, air suspension, bogie lift (FA:3 B) (1072)
Y37A	Solenoid valve unit, AVU (Air Valve Unit) (CO:3 B) (1030)	Y103	Safety valve, fuel system, ATI (CO:0 B) (1030)
Y37B	Solenoid valve unit, AVU (Butterfly) (CO:3 B) (1030)	Y109	Electro clutch, coolant pump (CO:1 D) (1030)
Y38	Solenoid valve, fuel water separator (Included in A45) (CO:3 B)	Y110	Solenoid valve, oil thermostat (CO:0 D) (1030)
Y39	Solenoid valve, VCB (CO:3 B) (1030)	Y111	Solenoid valve, oil piston cooling jet (CO:2 D) (1030)
Y40	Solenoid valve unit, front axle, air suspension (FA:0 B) (1072)	Y114	Throttle (CO:2 D) (1030)
Y42	Clutch, magnetic, air conditioning compressor (HG:0 D/HY:1 D) (1476)	Y128	Solenoid valve, air shut-off (FQ:3 C) (1056)
Y43L	Seat belt tensioner, pyrotechnical (IS:2 D) (1007A)		
Y43R	Seat belt tensioner, pyrotechnical (IS:3 D) (1007B)		
Y44	Air-bag, pyrotechnical (IS:0 D)		
Y48A	Solenoid valve, container lock (NA:2 D/ NB:2 D) (1506A)		
Y48B	Solenoid valve, fifth wheel lock (NA:4 D/ NB:3 D) (1506A)		
Y49	Solenoid valve, parking brake (NU:2 C) (1504)		
Y51A	Solenoid valve, regeneration (FQ:2 C)		
Y51B	Solenoid valve, compressor control (FQ:1 C)		
Y53	Control valve block , RAS (FO:3 D) (1493)		
Y54	Control module VGT (Variable Geometry Turbine) (CO:0 B) (1030)		
Y68	Solenoid valve, tridemaxle (FA:2 B) (1072)		

Abbreviations

ABS	Antilock brake system	ELCE-CK	Electrical complete kit for body builder
ACC.....	Adaptive cruise control	ELMS	Electrical main switch
ACU.....	Alarm control unit	EM-EC01	European community 2001 level EURO3
ADR-BAS1/ ADR1	ADR adaptation, 1 switch	EM-EC06	European community 2006 level EURO4
ADR2	ADR adaptation, 2 switches	EM-EU5	Engine emission control, EURO5
ADR3	ADR adaptation, 3 switches	EM-JPN10.....	Emission control Japan community 2010
AIRDRY-E	Electric airdryer	ENG-VE11	Volvo engine 11 litre
ATB	Axle load limiter	ENG-VE13	Volvo engine 13 litre
ATC	Automatic temperature control	EPG.....	Exhaust pressure governor
ATO2512C	Gearbox variant	ESP	Electronic stability program
AT2412C	Gearbox variant	FAA10	1 front axle, non driven
AT2512C	Gearbox variant	FAA20	2 front axle, non driven
AUS	Australia	FMS.....	Fleet management system
AUXSW-6.....	Wiring for six auxiliary switches for body building	FSS-LEAF.....	Leaf suspension, front
AWD.....	All wheel drive	GSS-AGS.....	Automatic gear shifting system (l-shift)
BBM	Body builder module	GSS-PS	Automatic transmission, automatic gear shifting system (Powertronic)
BBOX-AC.....	Battery box across framerails	GSS-RC	Range gear shifting, cable manoeuvred
BBOX-EF	Battery box end of frame	GSS-SRC.....	Split and range gear shifting, cable manoeuvred
BBOX-R	Battery box right hand side	INLI-BAS	Interior light, basic
BUMP-HDC.....	Bumper, heavy duty, construction	INLI-NL.....	Interior light, night light
BUMP-P	Bumper, plastic	JPN	Japan
BUMP-S	Bumper, steel	L	Left
BUMP-SC	Bumper, steel, construction	LCM.....	Light control module
CHH-LOW.....	Chassis height low	L1H1.....	Short cab
CLU	Central locking unit	L2H1.....	Long cab
CU-ACAUT	Air condition, automatic	L2H2.....	Long high cab (Globetrotter)
CU-ACMAN.....	Air condition, manual	LF	Left front
CU-BAS	Basic version with stepper motor without air condition	LHD	Left hand drive
CU-ECC	Electronic controlled climate control air condition	LHS	Left hand side
CU-HEAT	Heater unit	LKS	Lane keeping support
CU-MCC	Manual controlled climate control air condition	LOCK-ALL.....	Central door lock and cut off electricity of truck
DACU.....	Driver assistance control unit	LR.....	Left rear
DS	Driver side	LSS-DW	Lane support system departure warning
EBS	Electronic brake system		
ECS.....	Electronic controlled air suspension		
EGR-C	Exhaust gas regulation, cooled		

MAINSW-M	Mechanical main switch	TECU	Transmission electronic control unit
MAINSWI	Main switch	TIS-BAS	Transport information system, Logger and Positioning
MECHTRAN	Mechanical transmission	TIS-HIGH	Transport information system, Logg. Pos. and Adv. message system
MMS	Mechanical main switch	TIS-MED	Transport information system, Logg. Pos. and message
OBD	On Board Diagnostic	TMC	Traffic message channel
PH-CAB	Cab parking heater	TPM	Tyre pressure monitoring
PH-ENGCA	Engine and cab parking heater	TRACTOR	Semi-trailer tractor
PS	Passenger side	TREL7-7	Trailer connectors 2x7-pole unit
PSS-DUAL	Power steering system dual	TREL14	Trailer connectors 14-pole unit
PTO	Power take off	TURB-HD	Turbo heavy duty design
R	Right	UACC	Without adaptive cruise control
RAD-A4	4x2, air spring, 4bellows	UADR	Without ADR adaptation
RADD-A8	6x4, air spring, 8 bellows	UALARMB	Without alarm
RADT-A8	6x2, air spring, 8 bellows, tag axle	UJERICO	Without Jerico horn
RADT-AR	6x2, leaf spring (A-ride)	ULKS	Without lane keeping support
RAL23	Rear axle load 23 tonnes	ULSS	Without lane support system
RAL26	Rear axle load 26 tonnes	UMAINSWI	Without main switch
RF	Right front	URETARD	Without retarder
RHD	Right hand drive	USMCONT	Without starter motor control
RHS	Right hand side	USUSPLEV	Without air suspension levelling device
RIGID	Platform or tipper truck	UTPM	Without tyre pressure monitoring
RR	Right rear	UTRBRAKE	Without trailer brake valve
RSTS-EHY	Rear steering system, electrical controlled, hydraulic	VECU	Vehicle electronic control unit
SCR	Selective Catalyst Reduction	VERS-SAM	South American Version
SCRS-UHH	SCR system equipment, without heated hose	VT2412B	Gearbox variant
SI-GRAF	Tachograph	WLUR-BPK	Working lamp upper rear, body, prekit
SI-GRAFR	Tachograph	WLUR-CL	Working lamp upper rear, cab, lamp
SI-SPEED	Speedometer	WLUR-CPK	Working lamp upper rear, cab, prekit
SMCONT	Starter motor control	WPRE-BOC	Wire preparation back of cab incl. switch
SPDU-S	Dual speed limiter for side mounted	ZT1816	Gearbox variant (South America only)
SPEED-DU	Dual speed limiter		
SRS	Supplementary restraint system		
STWPOS-L	Steering wheel position left hand side		
STWPOS-R	Steering wheel position right hand side		
SUSPL-EC	Air suspension, electronic control system levelling device		
SUSPL-M	Air suspension, manual regulation levelling device		
SWAPBODY	Swap body		

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.

Feedback

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

In order to maintain the high standards of our service information, your opinions and experiences when using this information would be greatly appreciated.

If you have any comments or suggestions, use "Argus dealer" or send them to us using the email address below.

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