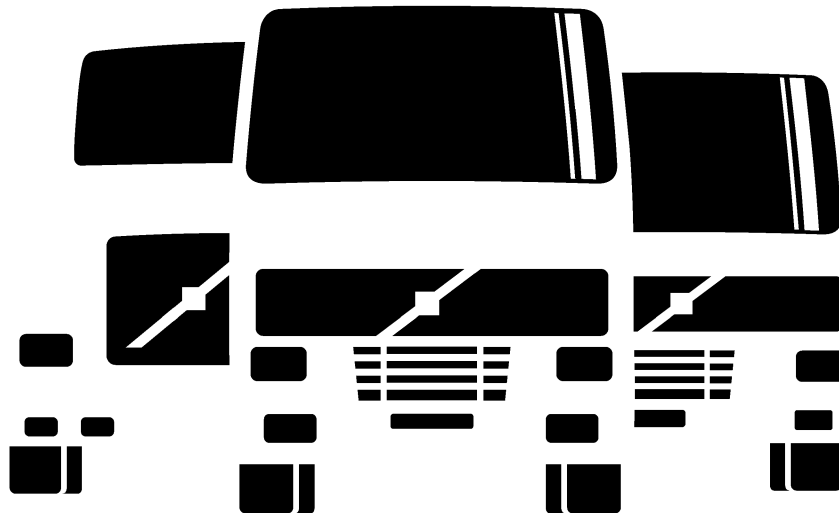


Service Manual Trucks

Group **37**
Release **01**

Wiring diagram
FM9, FM12, FH12, FH16, NH12 VERSION2
FM, FH CHID A610059–
FM, FH CHID B411901–



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to September 05.

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

The new edition of this manual will update the changes.

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

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

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

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

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

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

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

Volvo Truck Corporation

Göteborg, Sweden

Order number: 20037631

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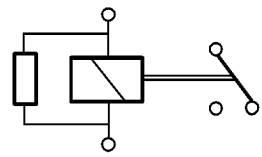
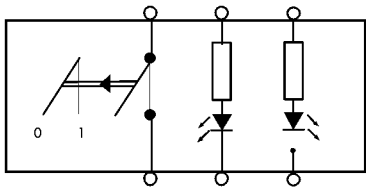
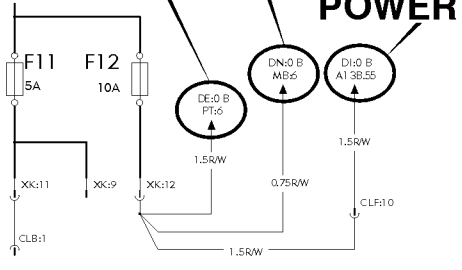
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ENG18353

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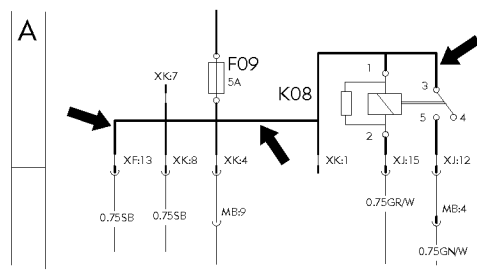
GEARTRONIC
I-SHIFT
POWERTRONIC



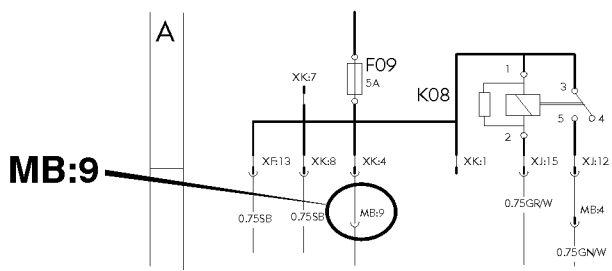
The maximum of variants are drawn, think about that all wires and components are not standard for all markets or vehicle models.

Switch.

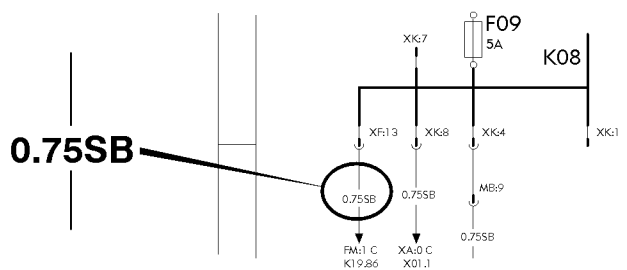
Relay.



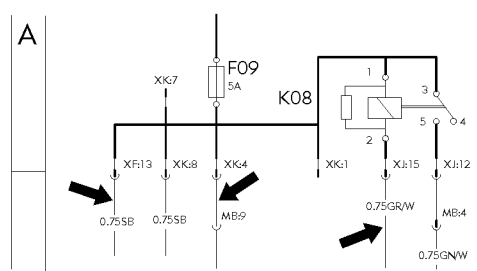
Conductor on circuit card.



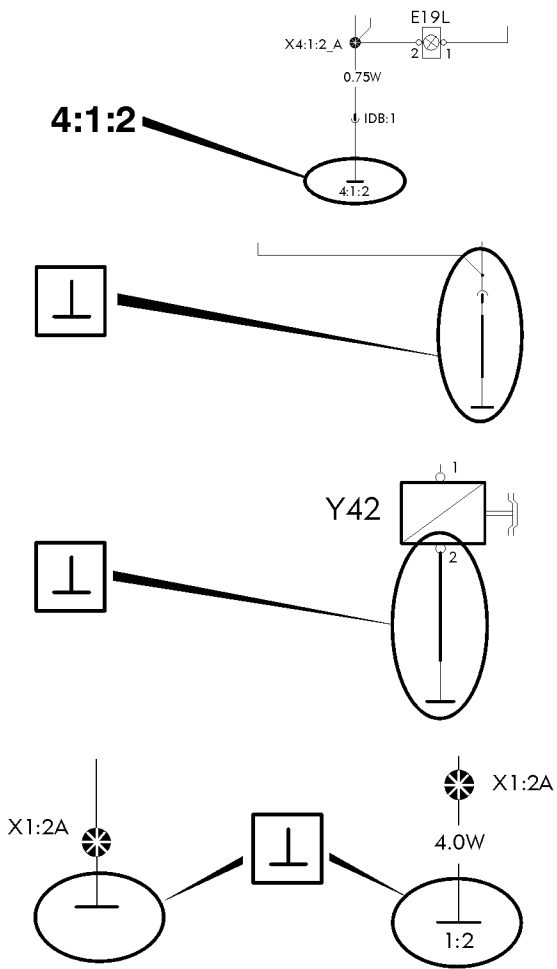
Connector MB terminal 9.



Wire area and colour.



Thin lines, wires.



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

Earth connection to circuit card.

Earth connection without wire.

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

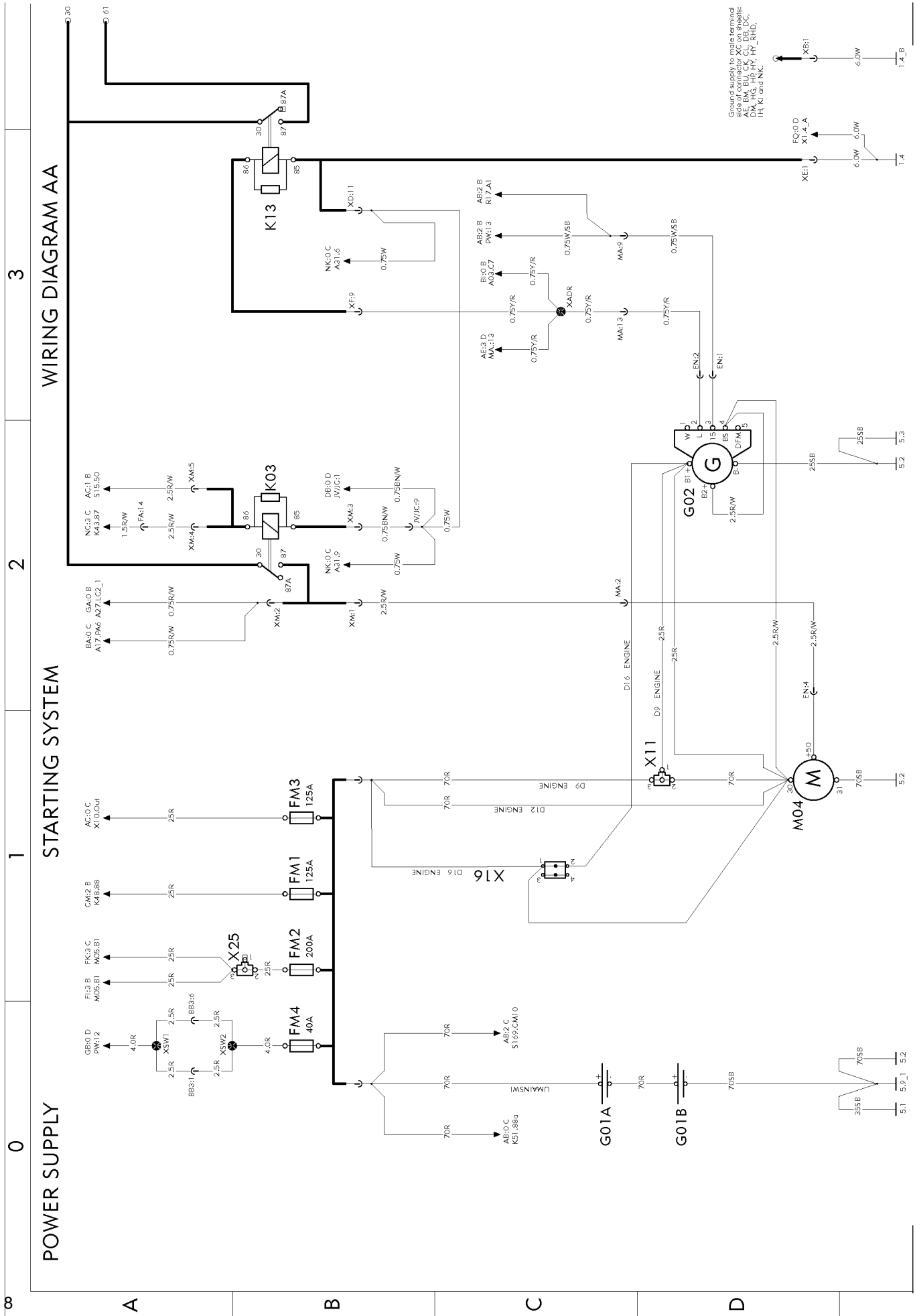
Component wiring diagram index

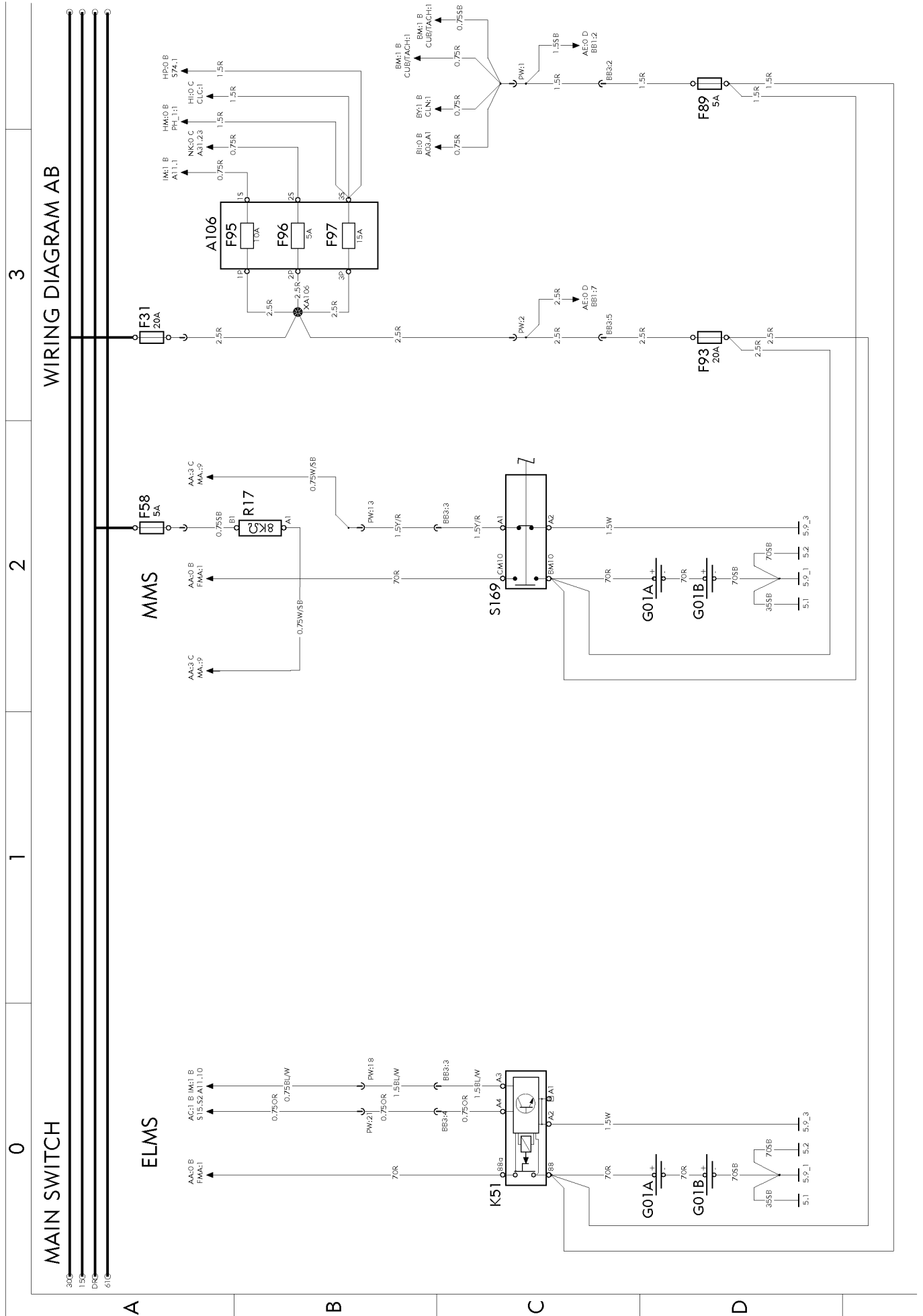
AA	Power supply, starting system	page 8
AB	Remote main switch	page 9
AC	Power distribution	page 10
AE	ADR, main switch	page 11
BA	Vehicle ECU	page 12
BE	ACC Adaptive cruise control	page 13
BI	Instrument cluster	page 14
BM	Tachograph in dash	page 15
BN	Tachograph in shelf	page 16
BU	Dynafleet	page 17
BX	FMS Gateway	page 18
BY	Volvo link (VERS-SAM)	page 19
CM	Engine interface	page 20
CO	Engine D9	page 21
	Engine D12	page 22
	Engine D16	page 23
CP	ISX functions, 12V trailer ABS converter (AUS only)	page 24
CS	Engine ISX (AUS only)	page 25
DB	Gear selector ECU (GEARTRONIC)	page 26
DC	Gear selector ECU (I-SHIFT/POWERTRONIC)	page 27
DE	Geartronic automatic gearshift	page 28
DI	Powertronic	page 29
DM	Retarder manual gearshift	page 30
DN	I-shift	page 31
DQ	Power take off	page 32
DU	Diff-lock	page 33
EE	ABS basic, D-version	page 34
EI	ABS/ASR D-version	page 35
EO	EBS ECU	page 36
EP	EBS modulators	page 37
FA	Air-suspension	page 38
FG	Load indikator	page 39
FI	Bogie lift A-ride	page 40
FK	Bogie lift A-ride with axle load limiter	page 41
FM	Axle lock, self steered axle	page 42
FO	Electronic steered axle	page 43
FP	Hydraulic steered axle	page 44

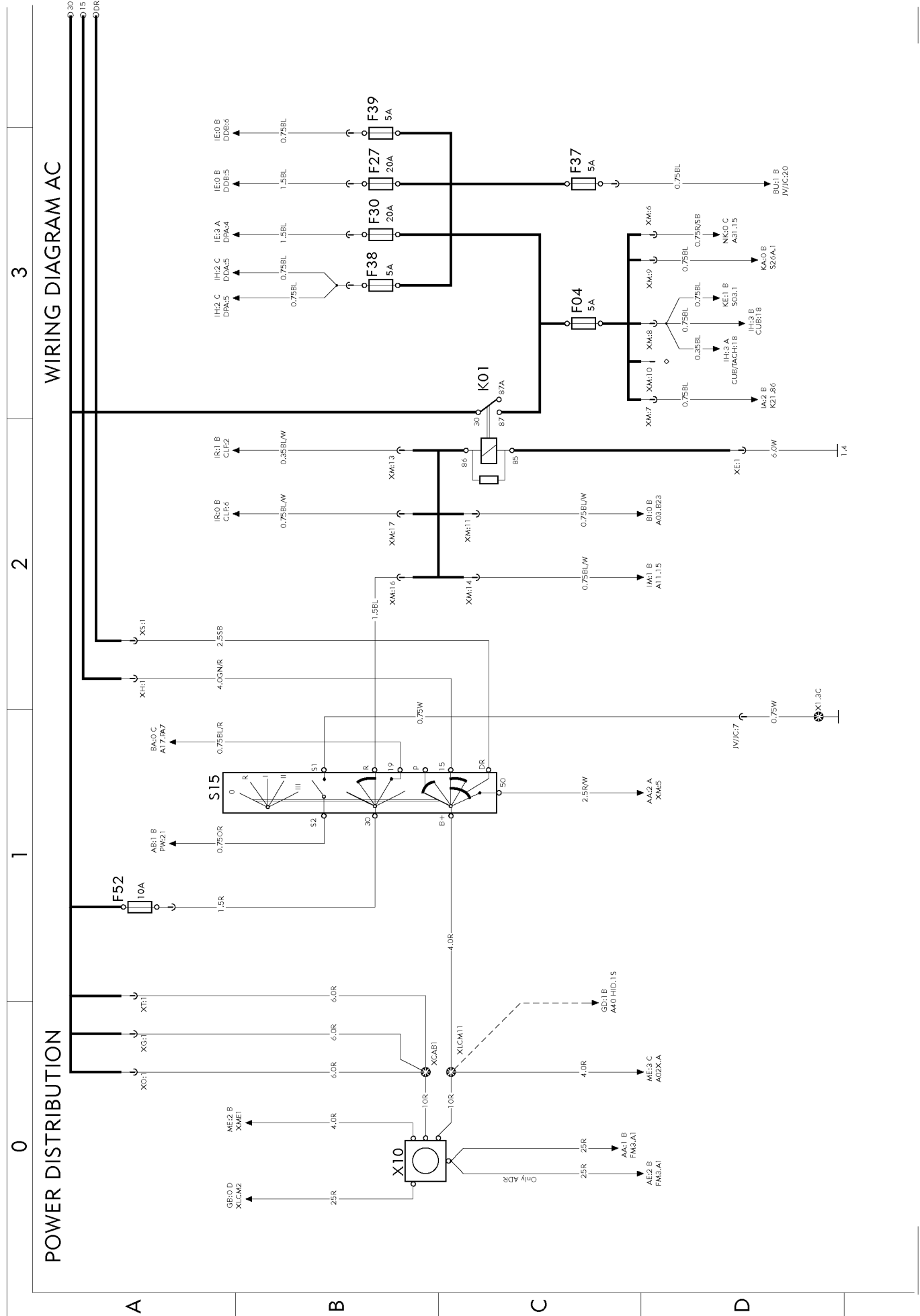
FQ	Air dryer	page 45
FU	Central lubrication system	page 46
GA	LCM head lights	page 47
GB	LCM trailer	page 48
GC	LCM rear lights	page 49
GD	HID lamps	page 50
GE	Rear lights overhang	page 51
GF	Rear lights, India/Korea	page 52
GG	Trailer connections, RIGID	page 53
GH	Trailer connections, TRACTOR	page 54
GI	LCM head lights (VERS-SAM TYPE-N)	page 55
GK	Trailer connections (AUS only)	page 56
GM	Wiper, washer	page 57
GQ	Horn	page 58
GU	Headlights adjust	page 59
HG	Climate unit, CU,-BAS,-MCC,-ECC	page 60
HI	Air heater	page 61
HM	Water heater	page 62
HP	Short stop cab heater	page 63
HY	Climat unit, CU,-HEAT,-ACMAN,-ACAUT.	page 64
HZ	Air cooler, Brazil	page 65
IA	El. heated/adj. seat	page 66
IE	El. heat/adj. mirrors, El. window winders	page 67
IF	Foldable mirror bracket	page 68
IH	Interior light	page 69
IM	Central locking, immobiliser	page 70
IQ	El. sunroof, cig. lighter, refrigerator	page 71
IR	12V power supply	page 72
IS	SWM, SRS. Air-bag	page 73
IU	Radio	page 74
IX	Integrated telephone	page 75
IZ	Backup camera	page 76
KA	Cab tilt	page 77
KE	Load light, 5:th wheel lamp	page 78
KI	Light sign	page 79
KM	Beacon warning light	page 80
ME	Extra fuse block, key switch relay	page 81
NA	Body builder (BB), auxsw-6 and swapbody	page 82

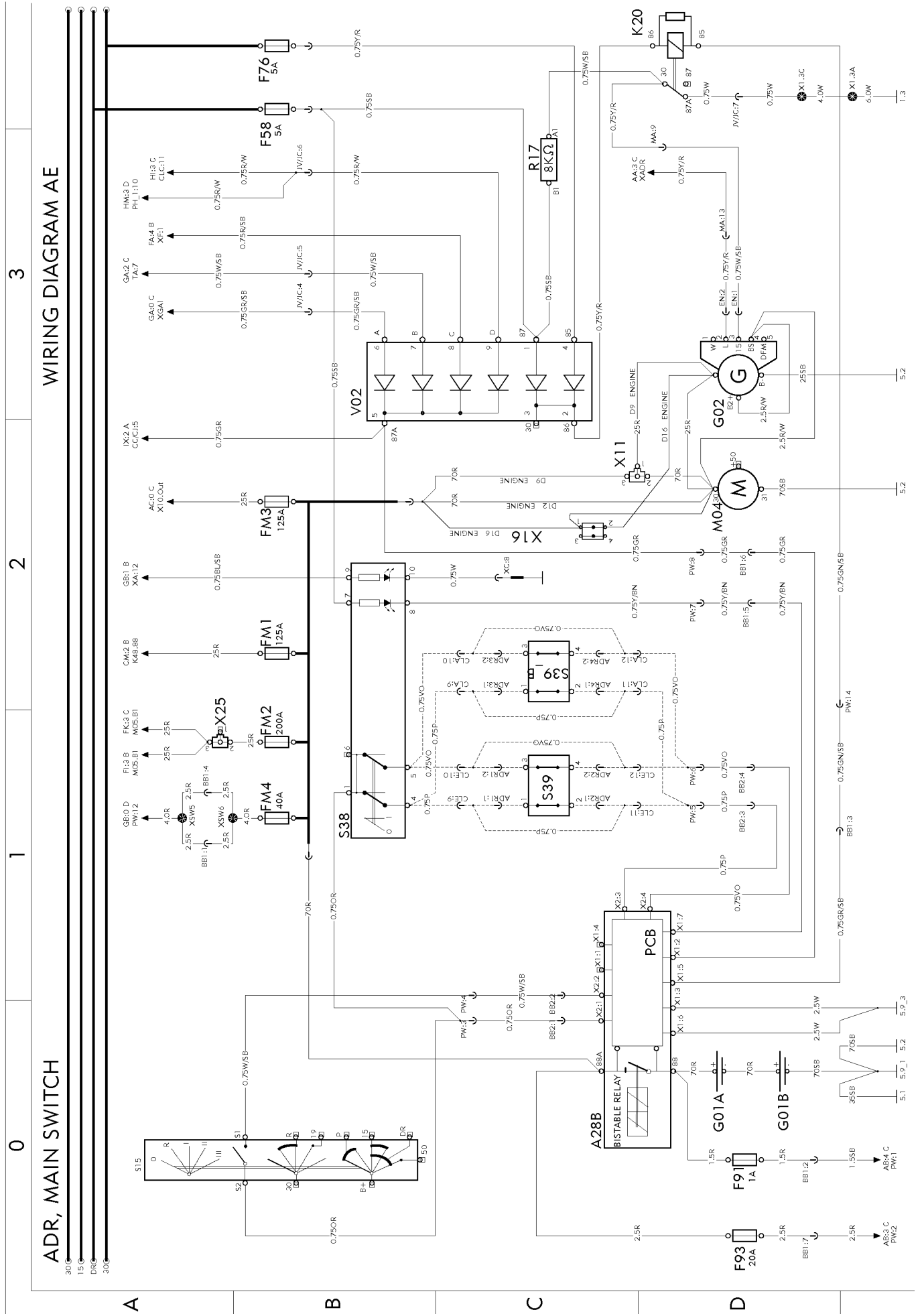
NC	Body builder (BB), ELCE-CK, BBM, PTO2	page 83
NI	Extra spotlamps front/roof, max 4x70W	page 84
NK	Burglar alarm	page 85
NU	Body builder (BB), DUAL-SPEED	page 86
OA	Tyre pressure monitoring (TPM)	page 87
XA	Bus J1708/J1587	page 88
XB	Bus J1939	page 89

Component wiring diagrams









WIRING DIAGRAM AE

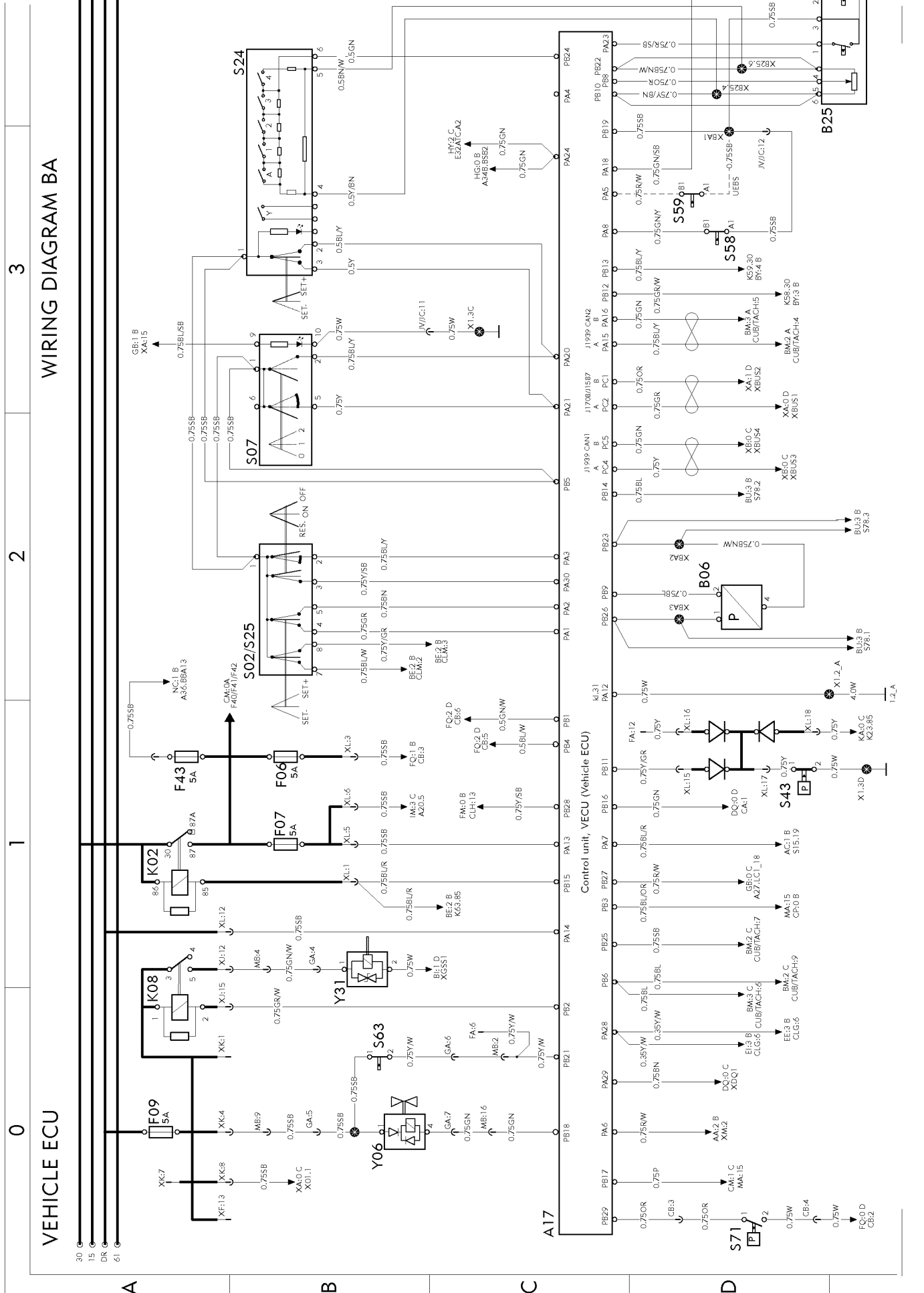
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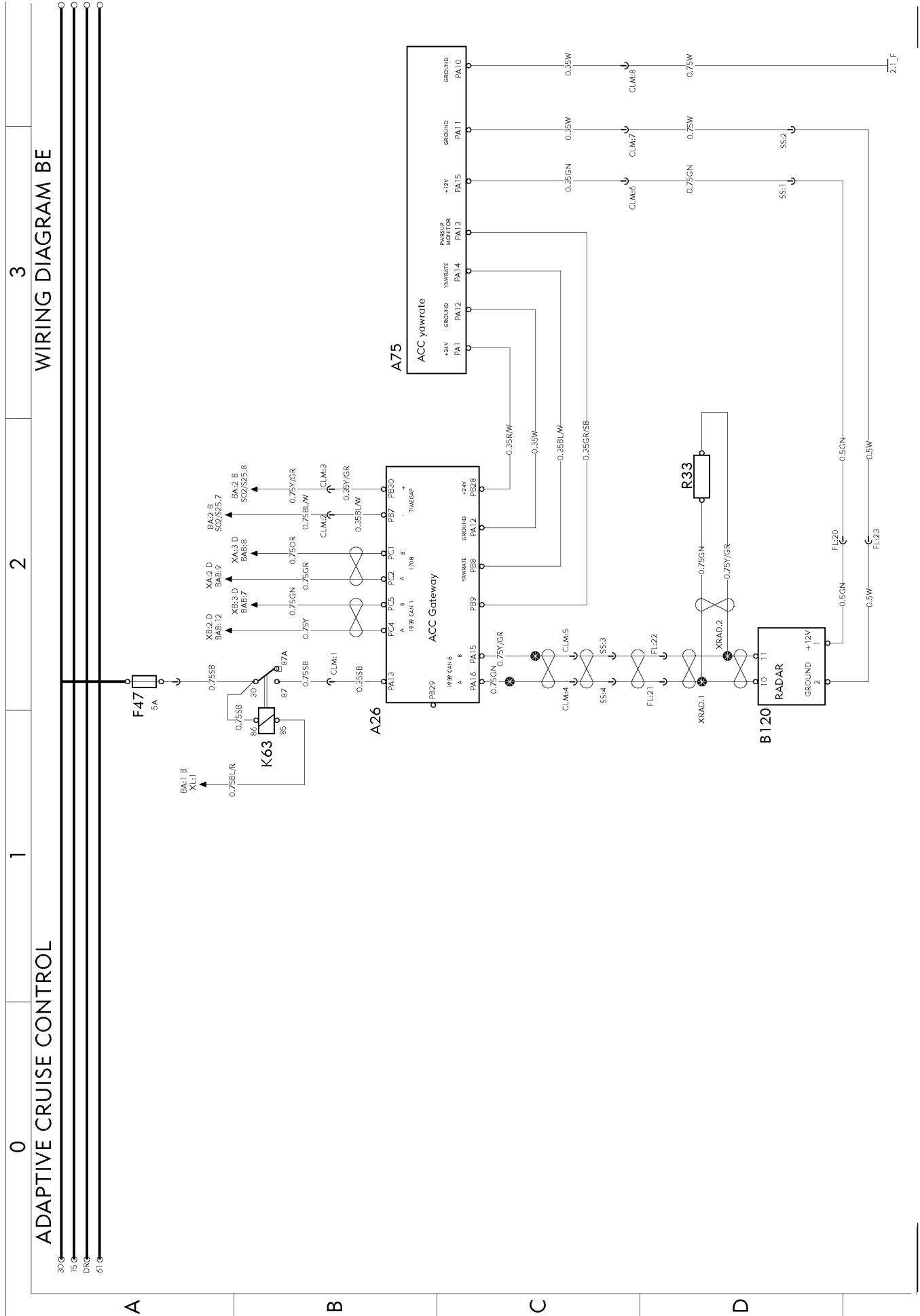
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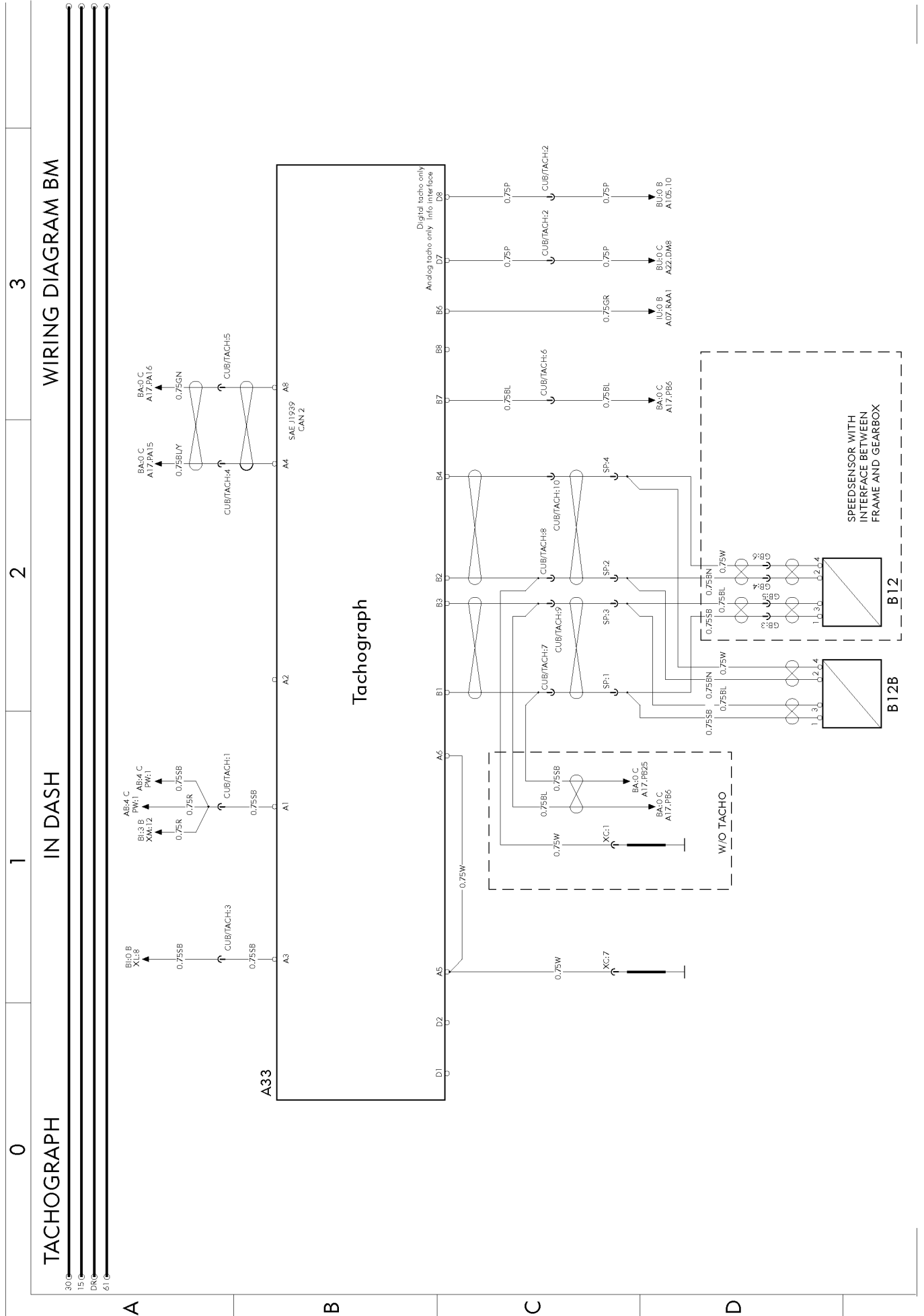
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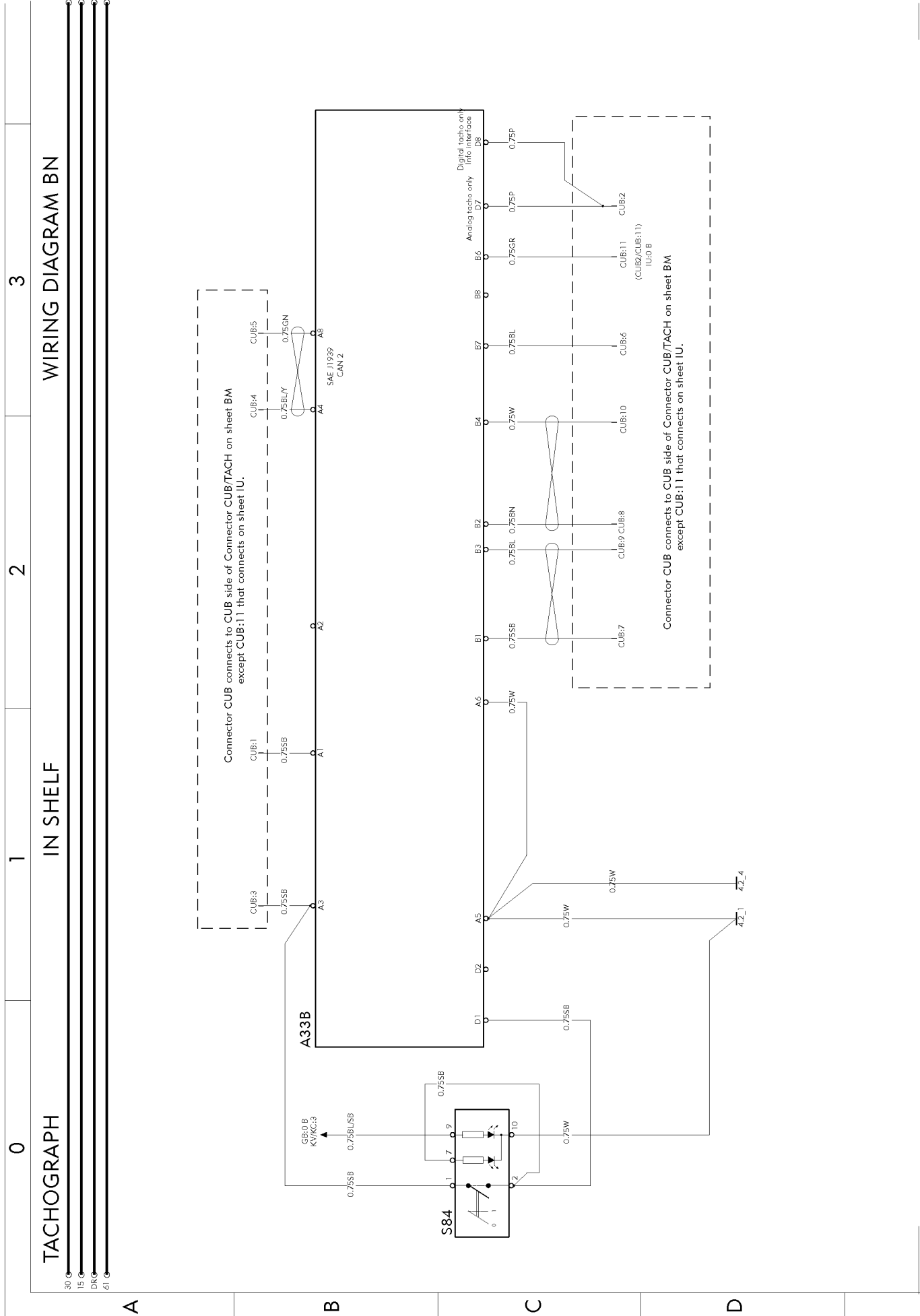
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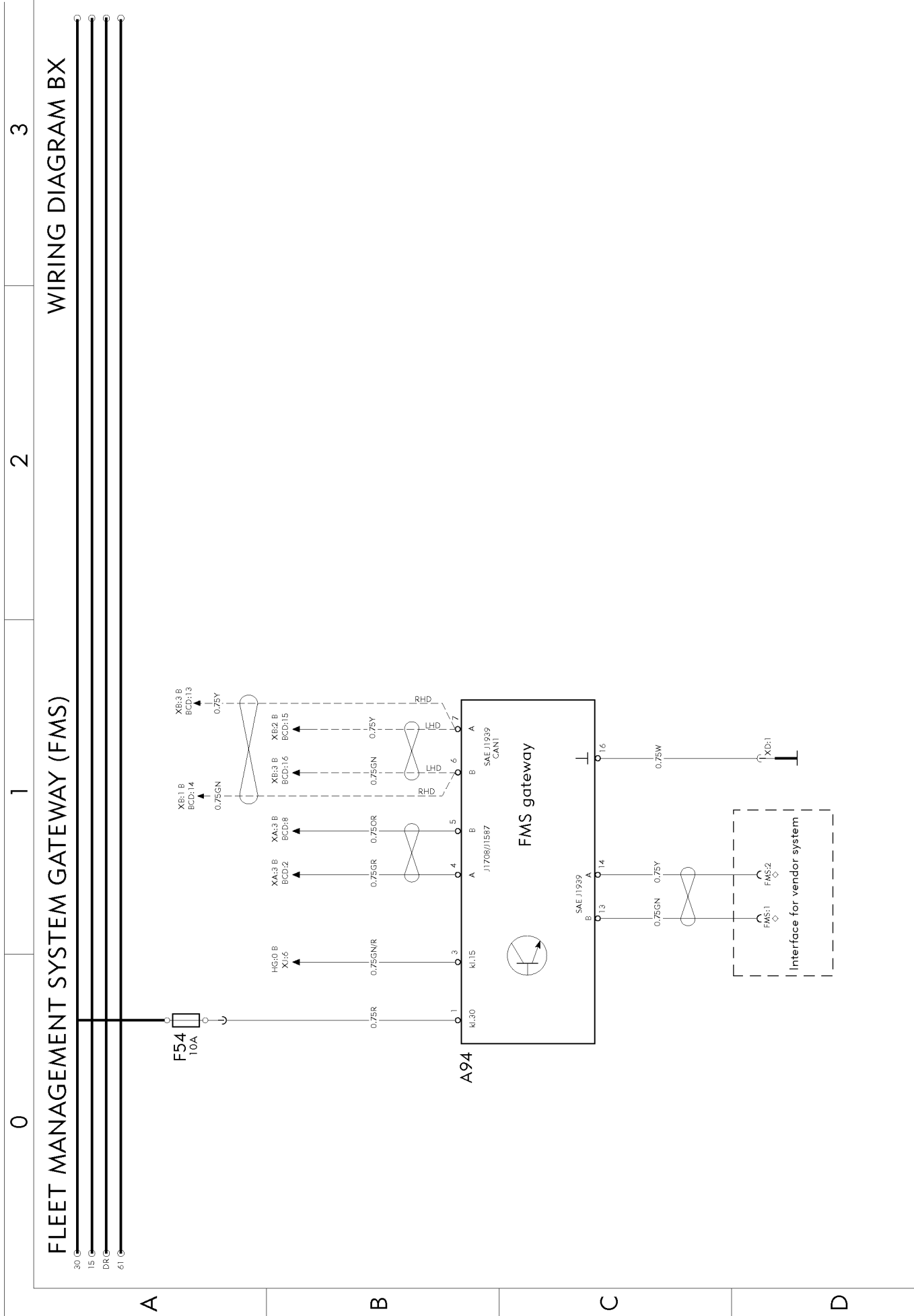
ADR, MAIN SWITCH

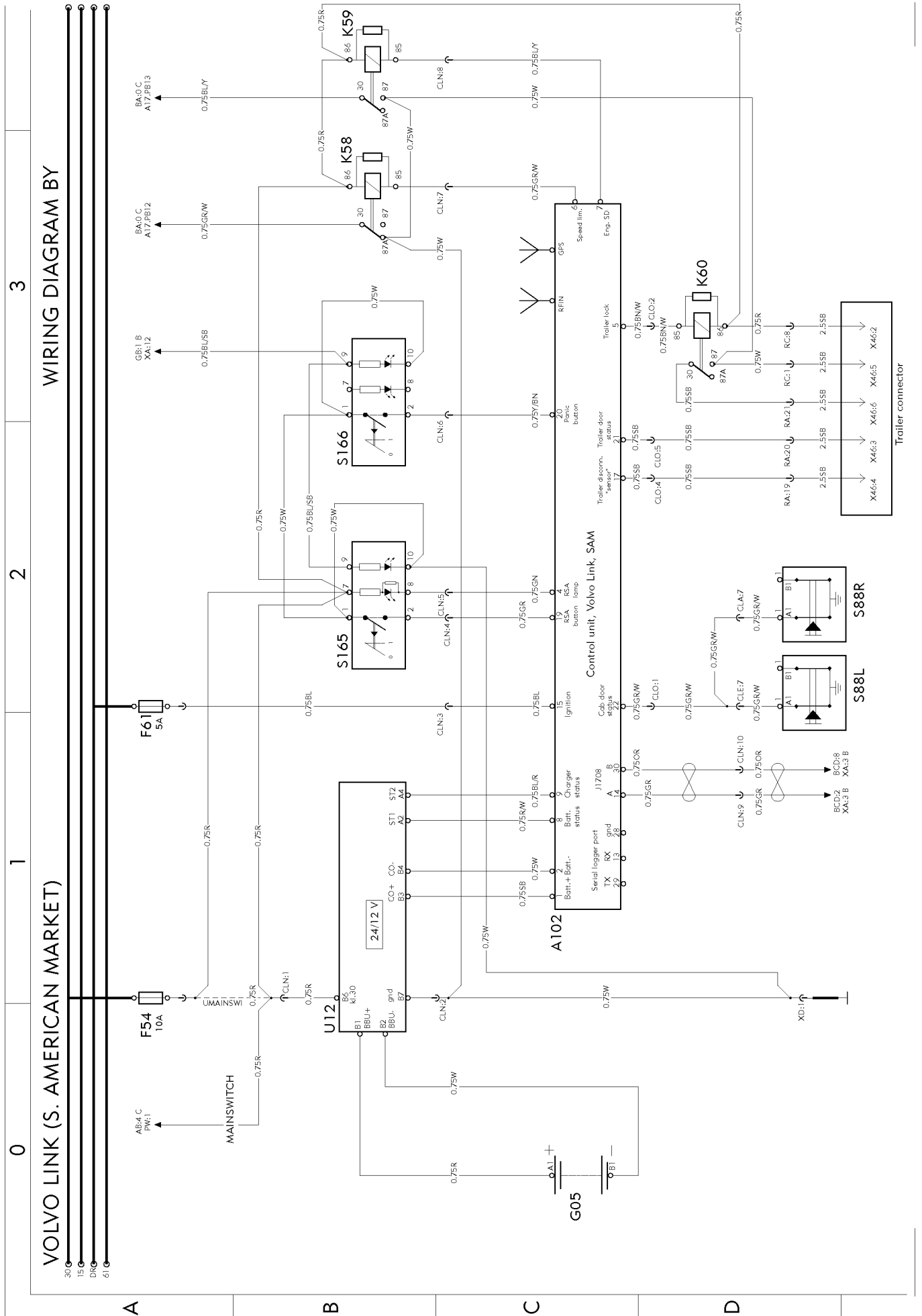


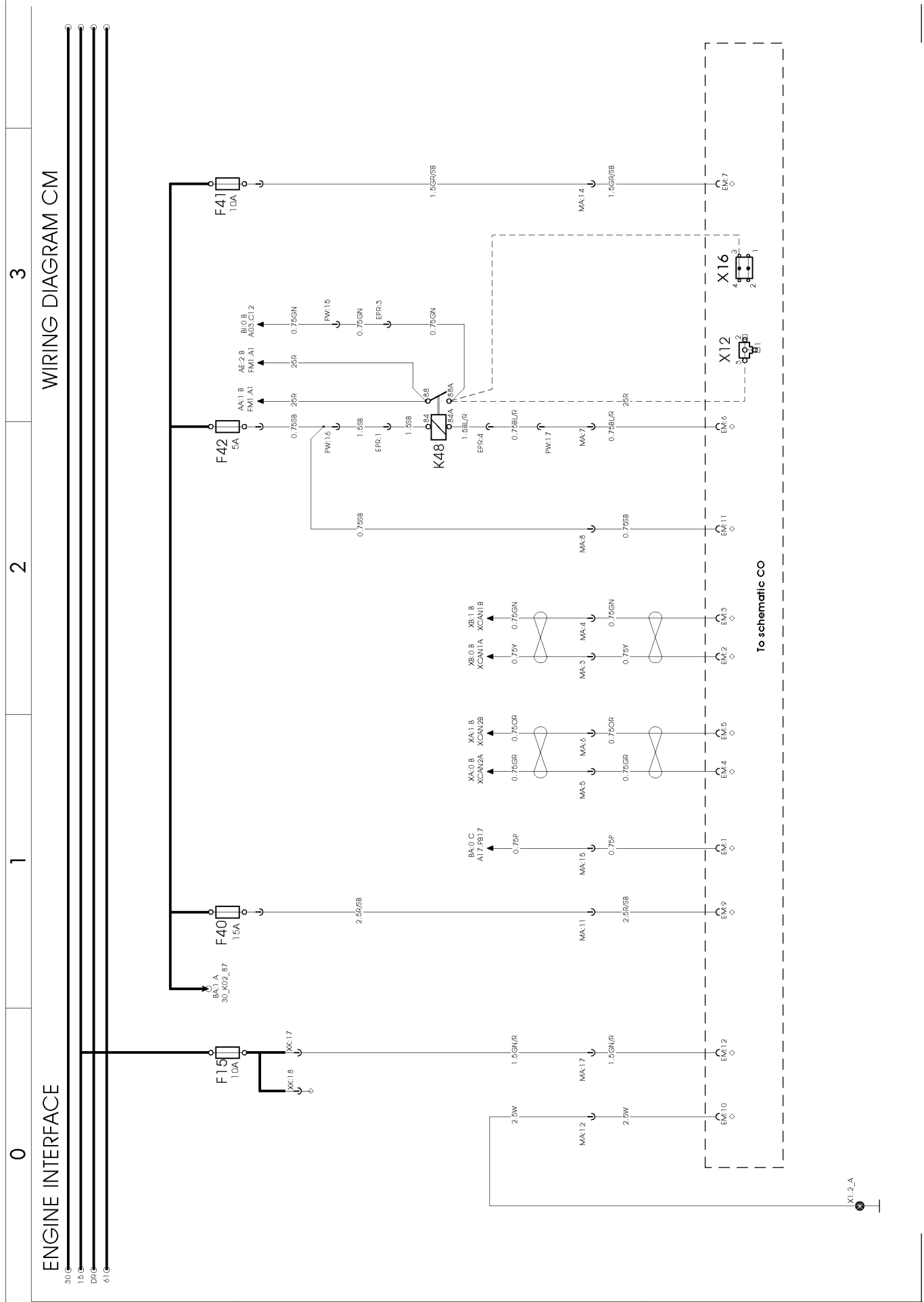


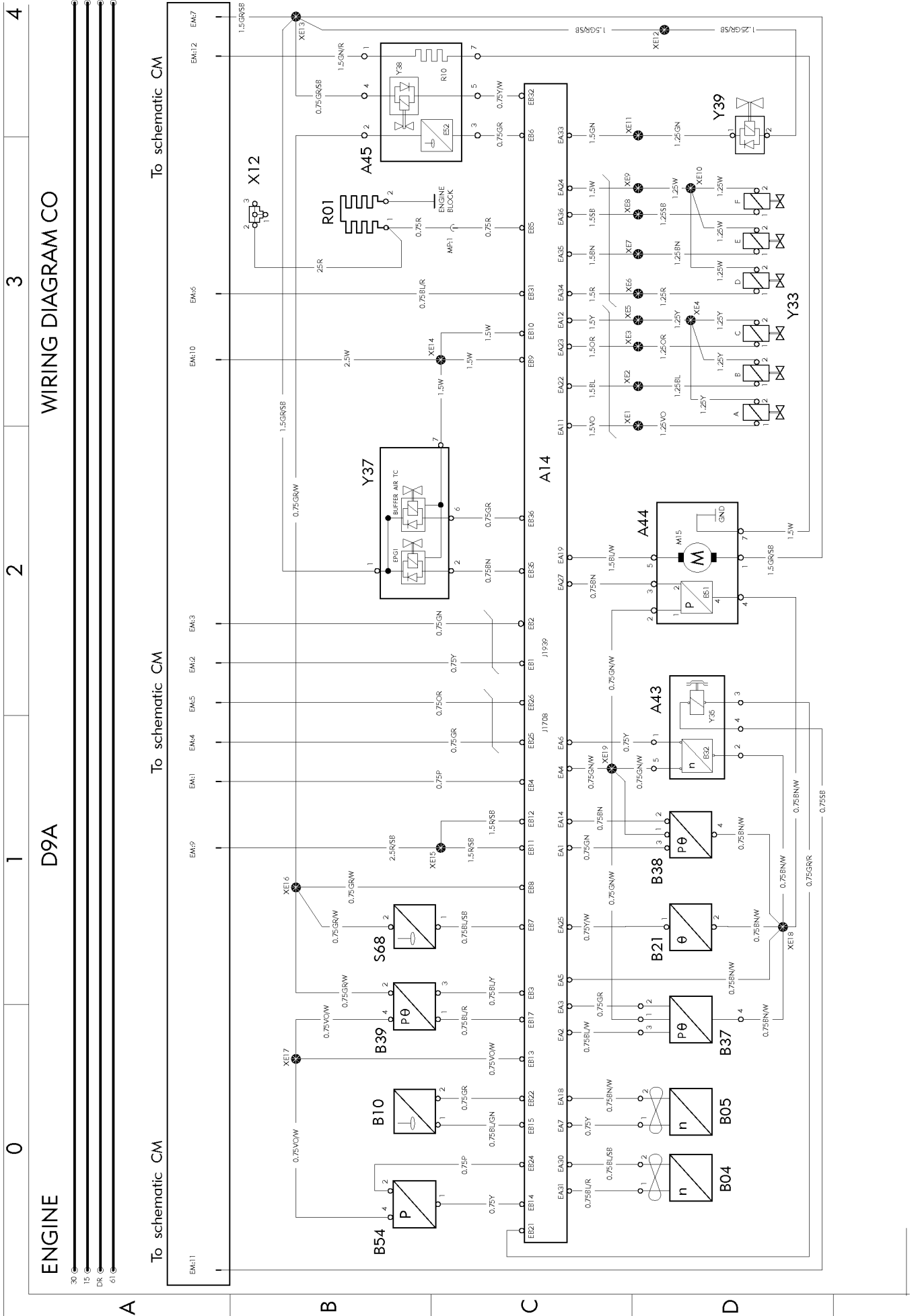


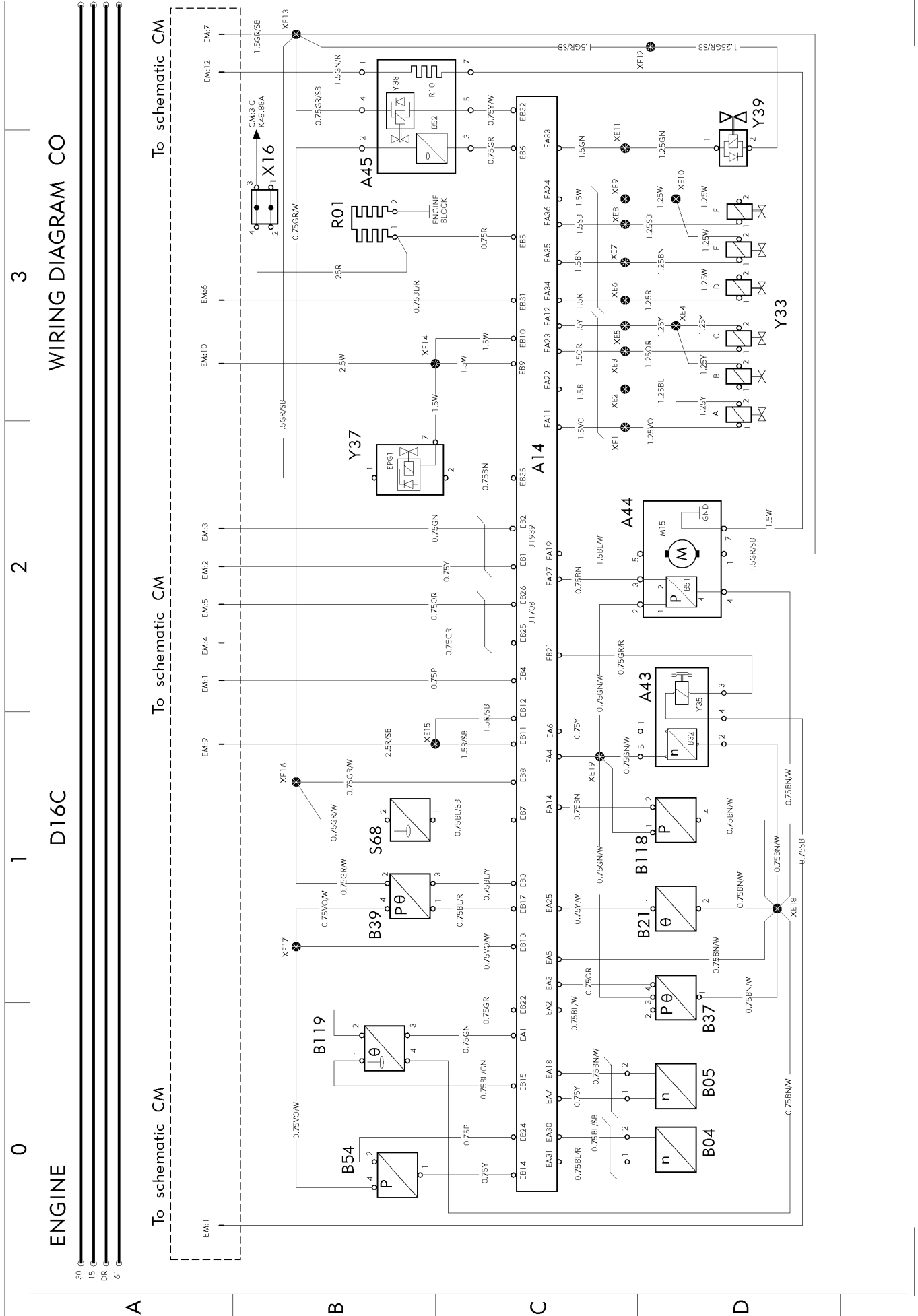


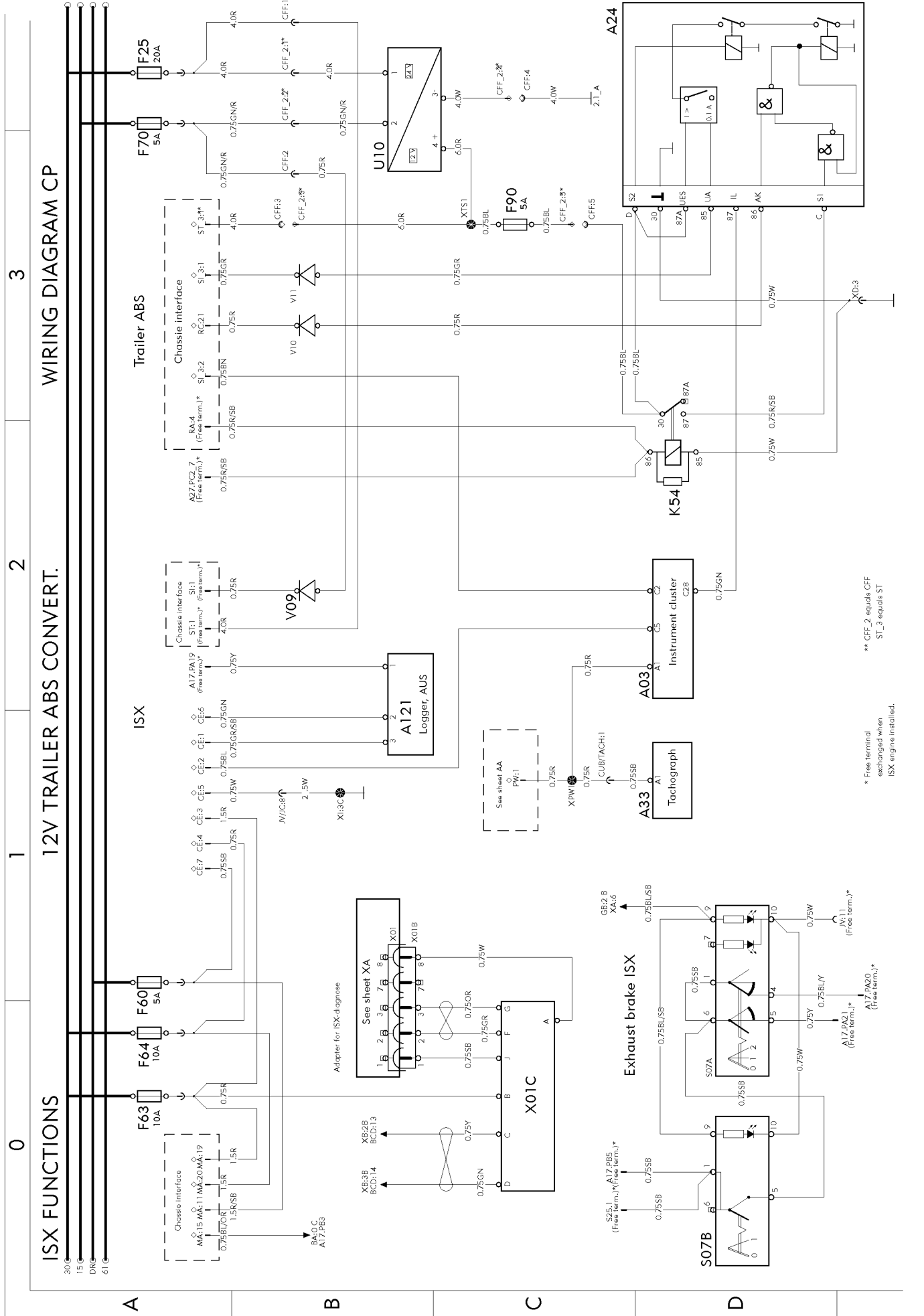




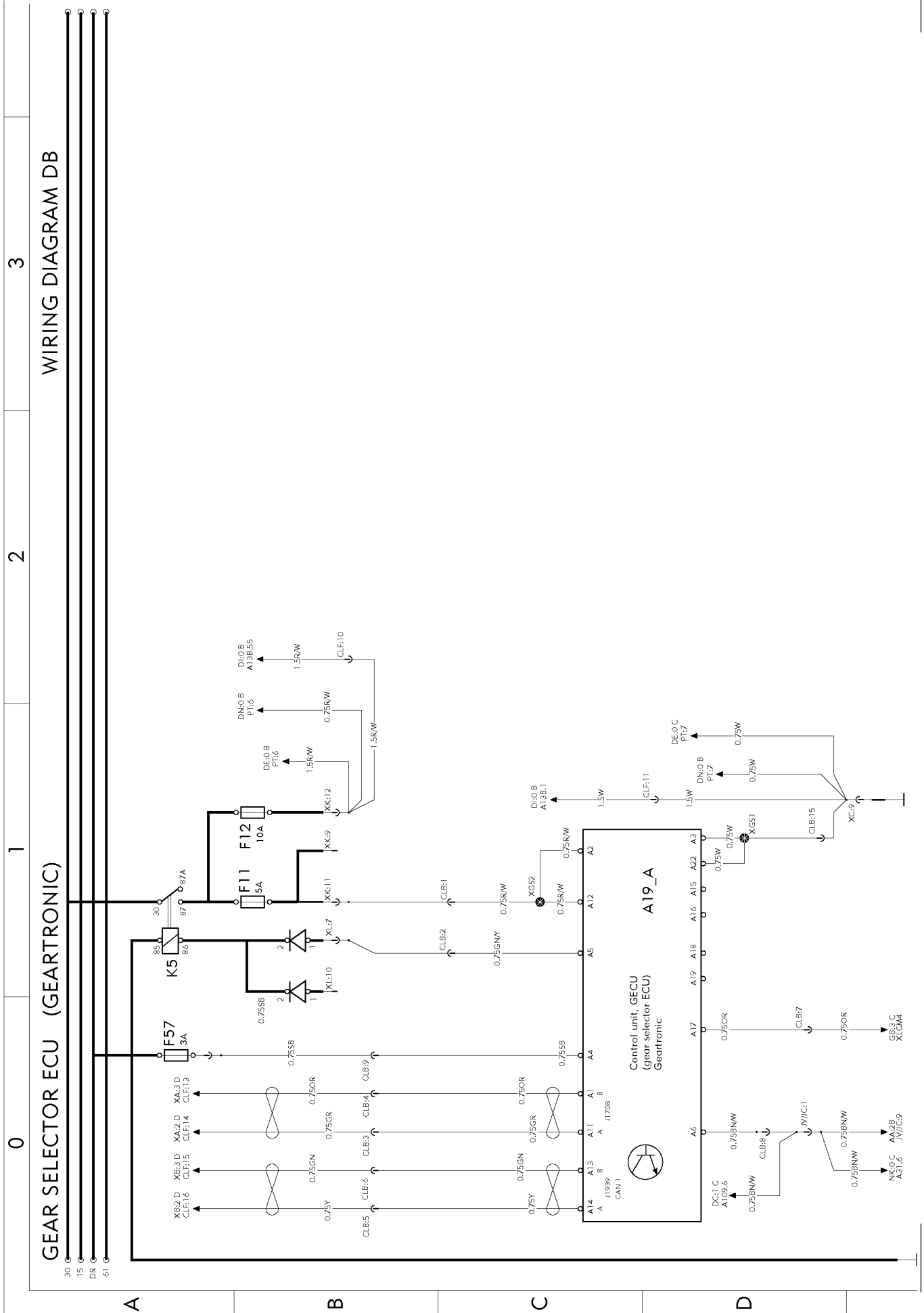


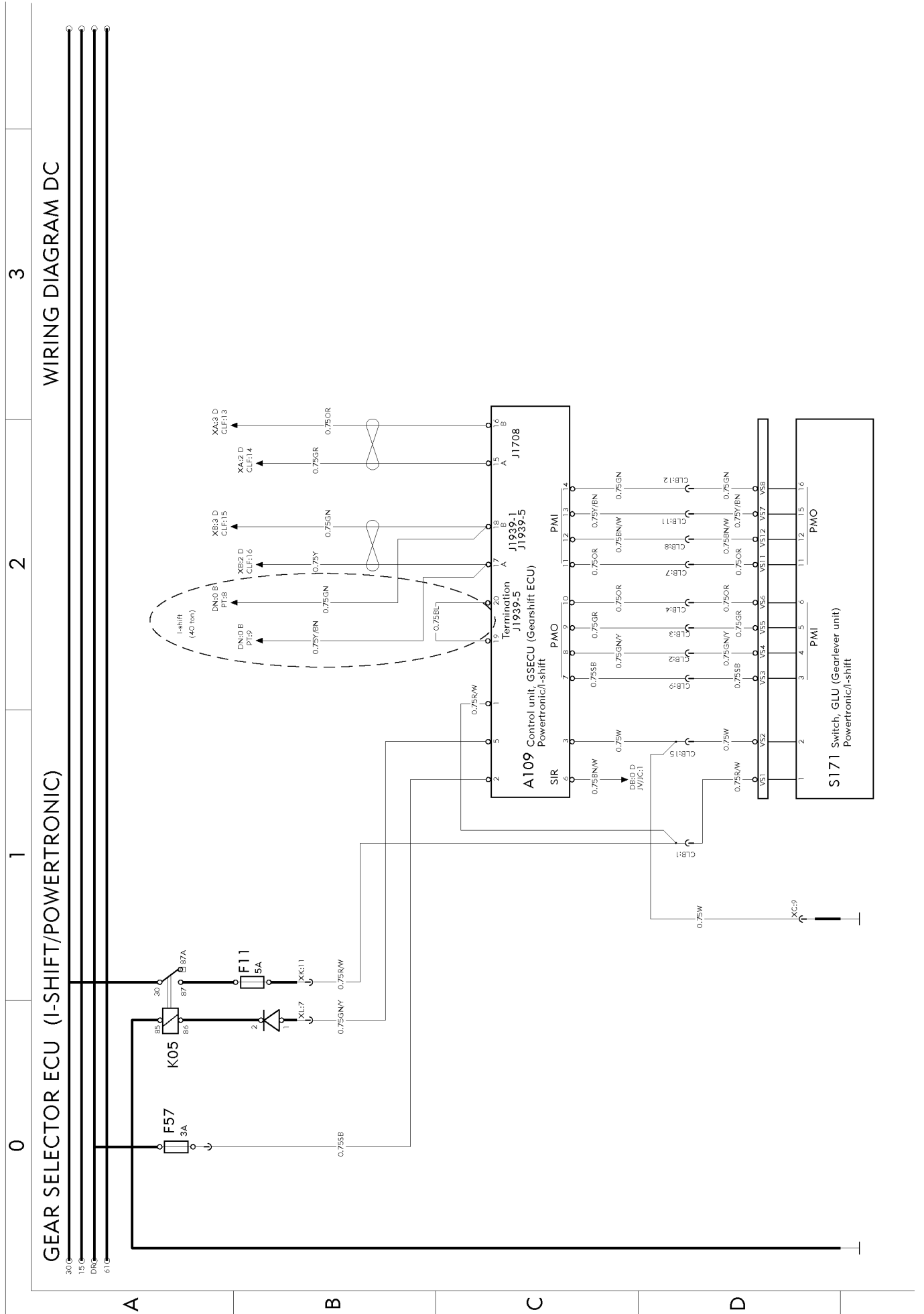


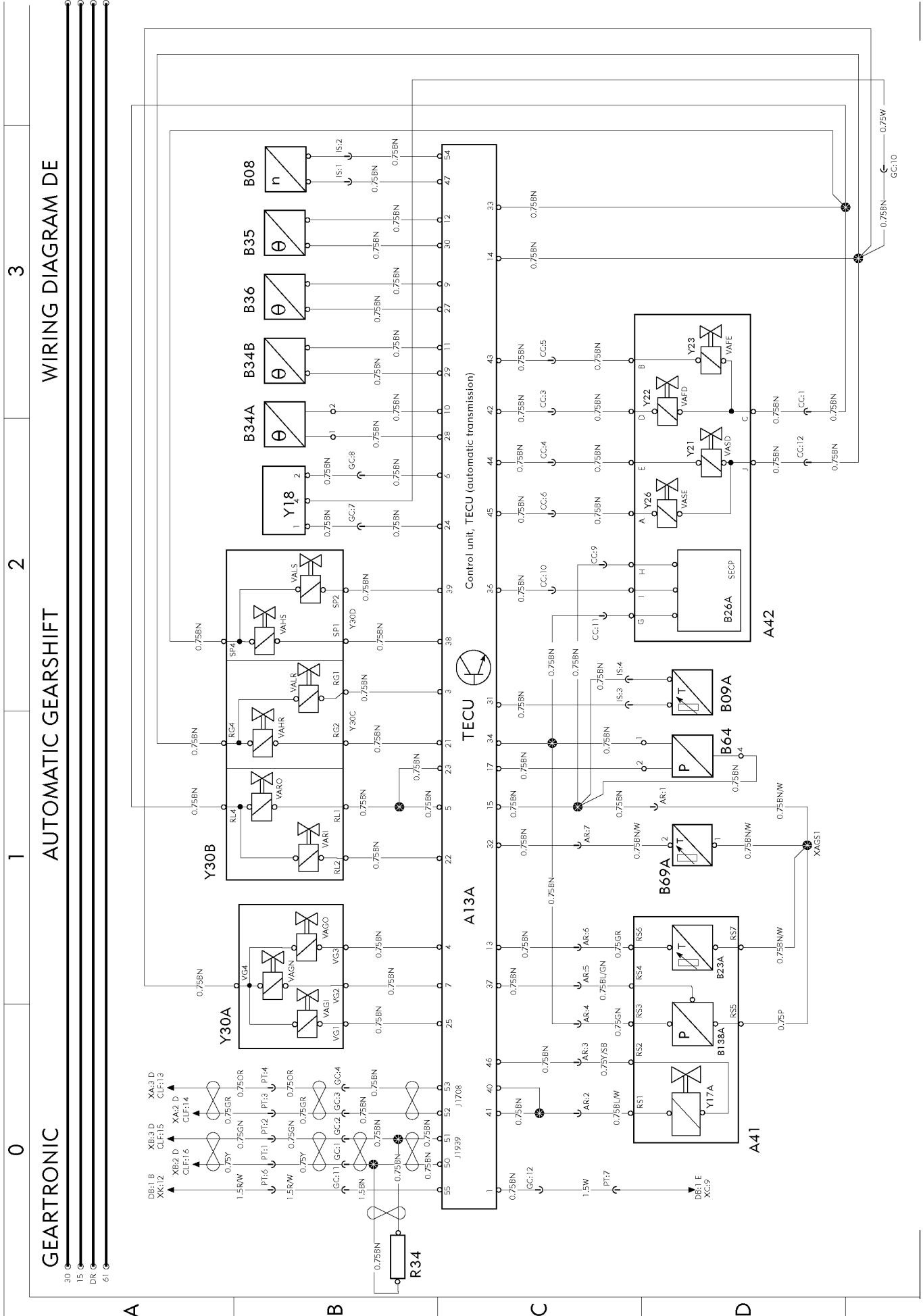




* Free terminal exchanged when ISX engine installed.
 ** CFF_2 equals CFF ST_3 equals ST



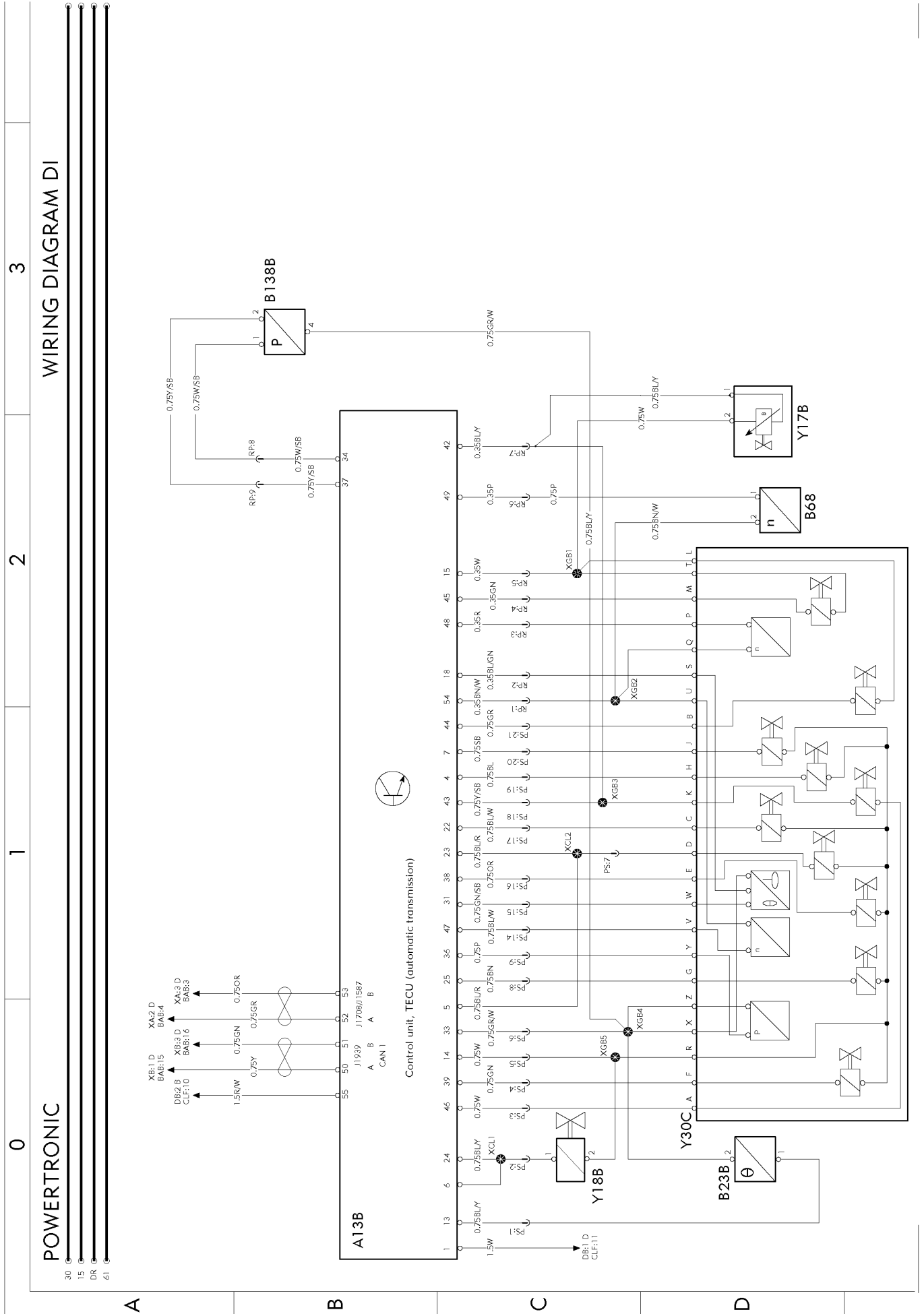


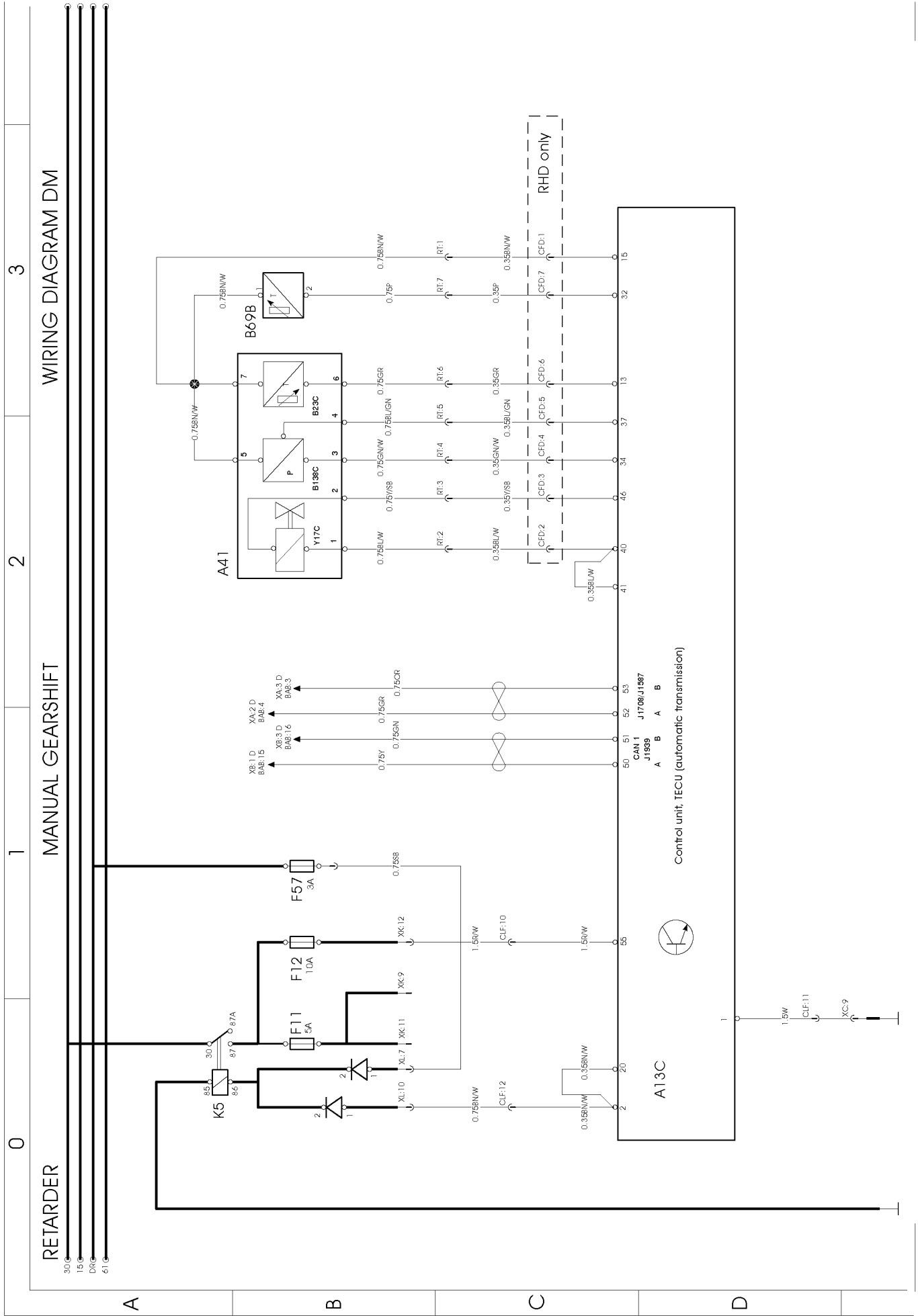


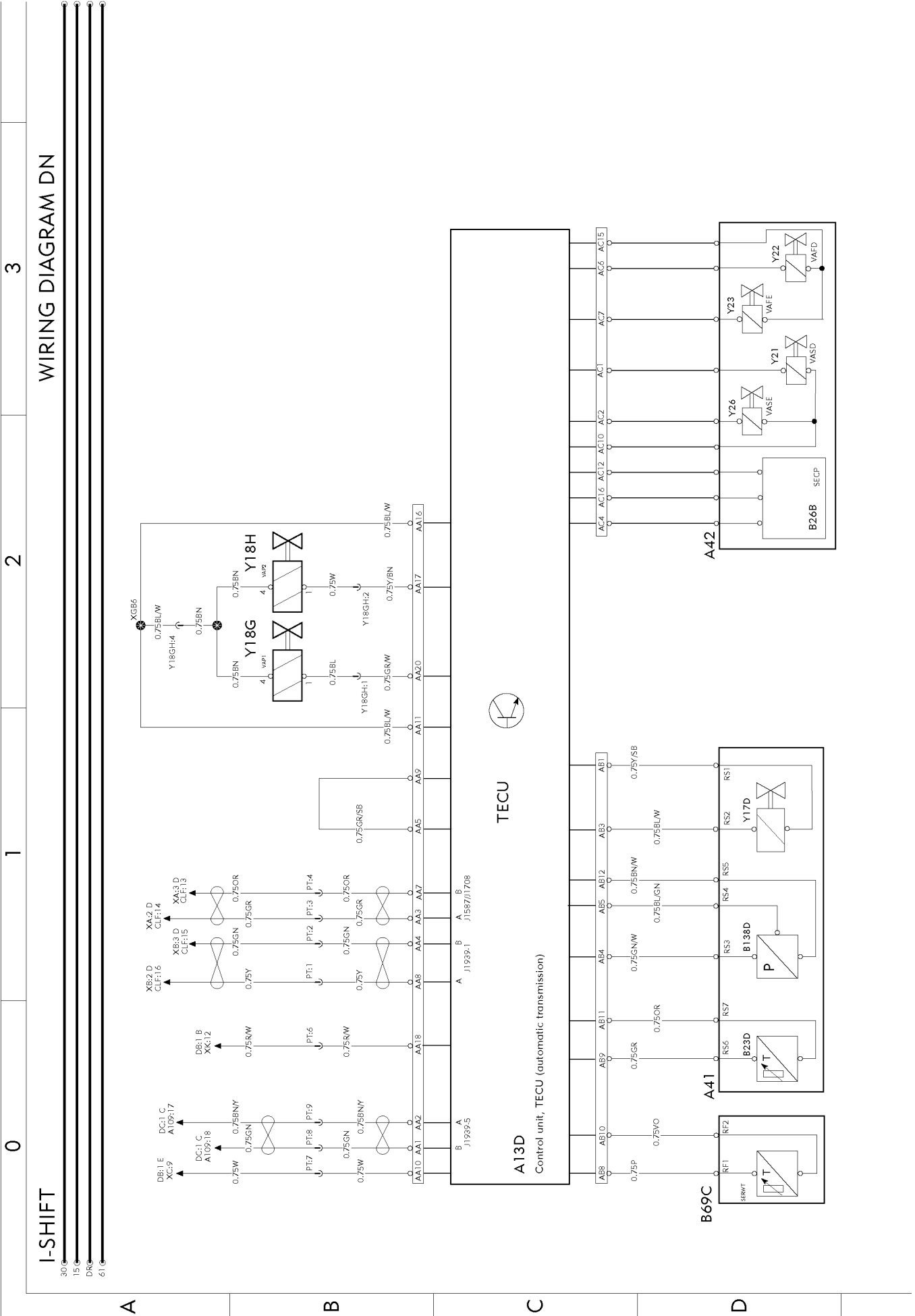
WIRING DIAGRAM DE

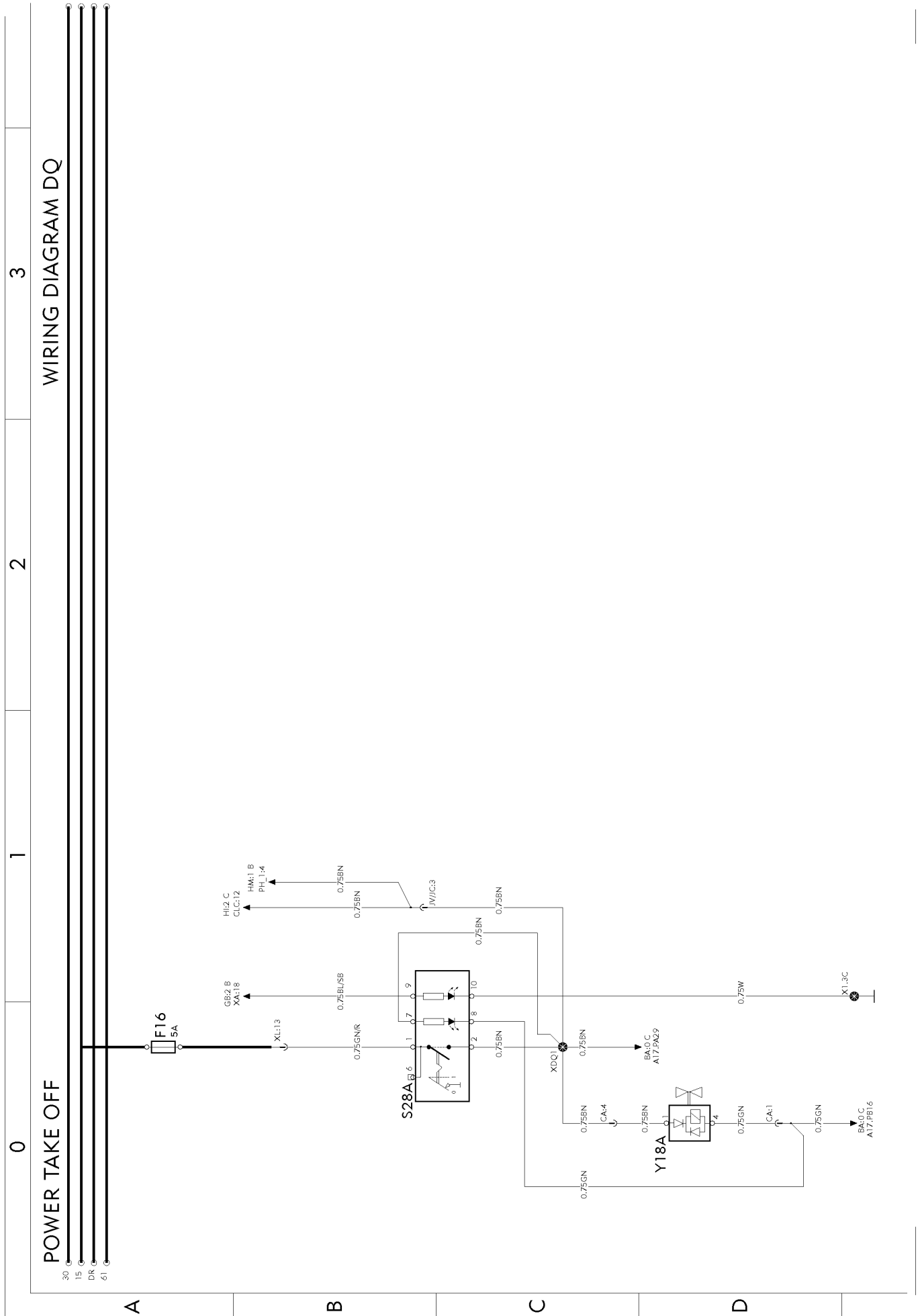
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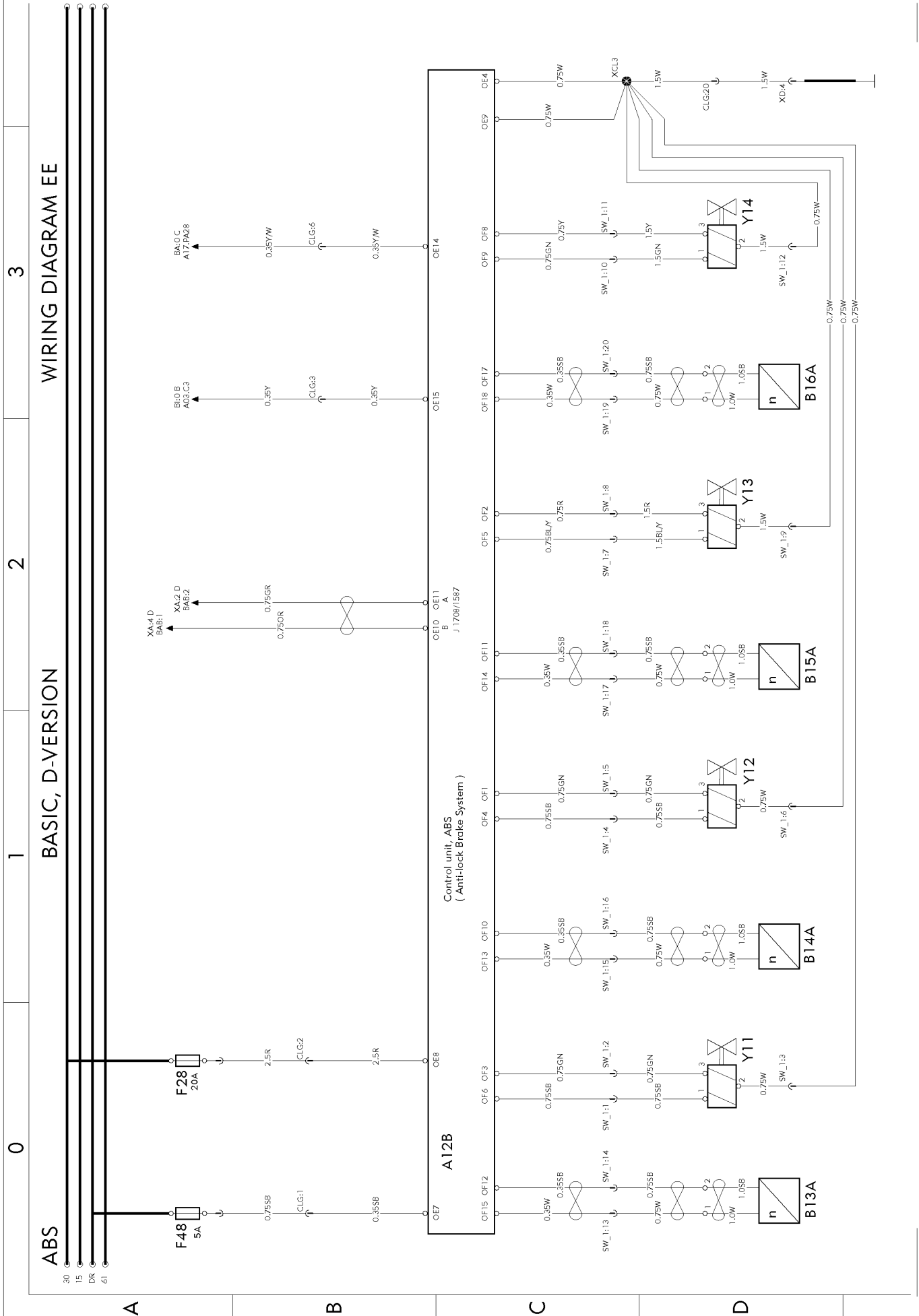
GEARTRONIC

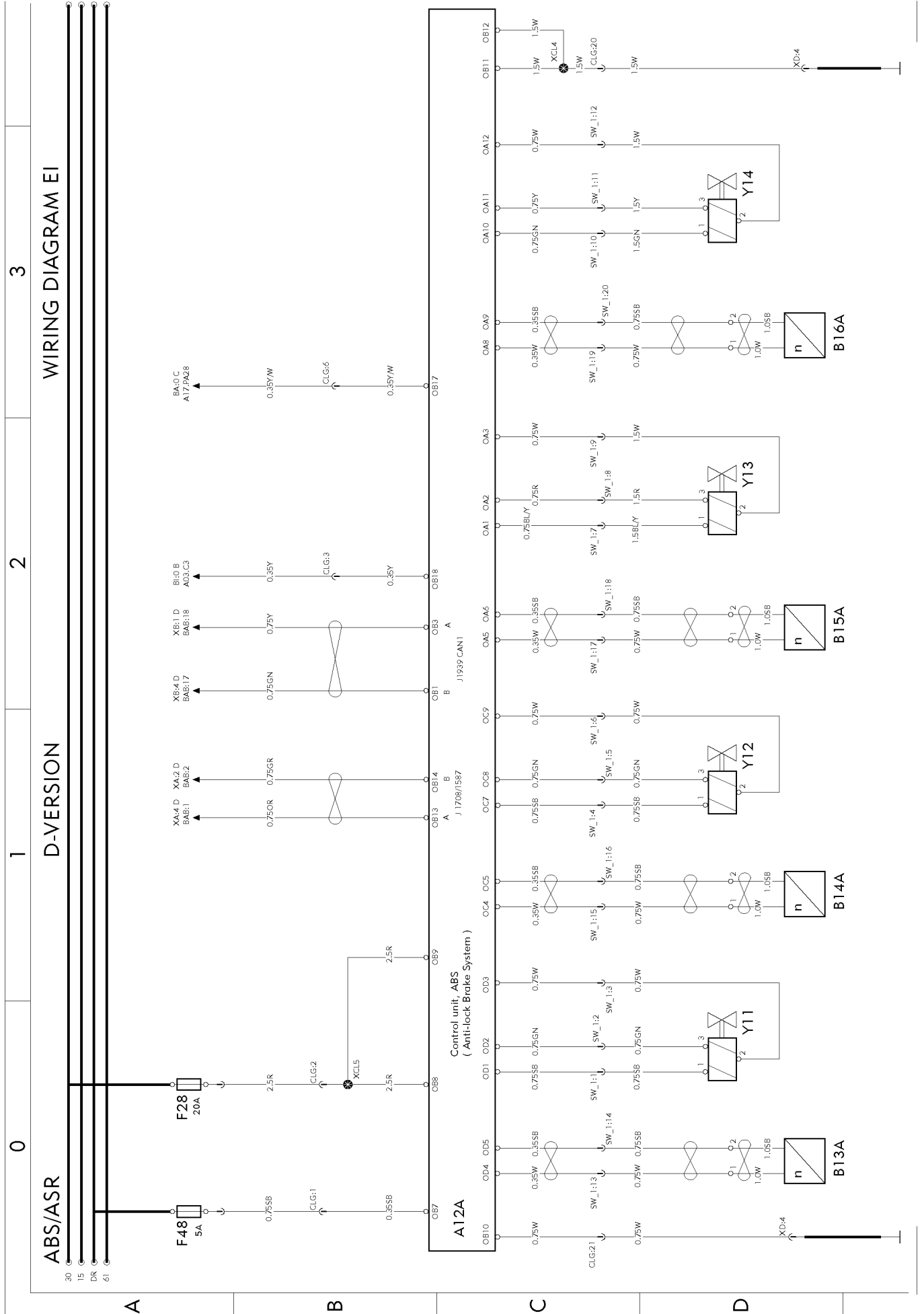


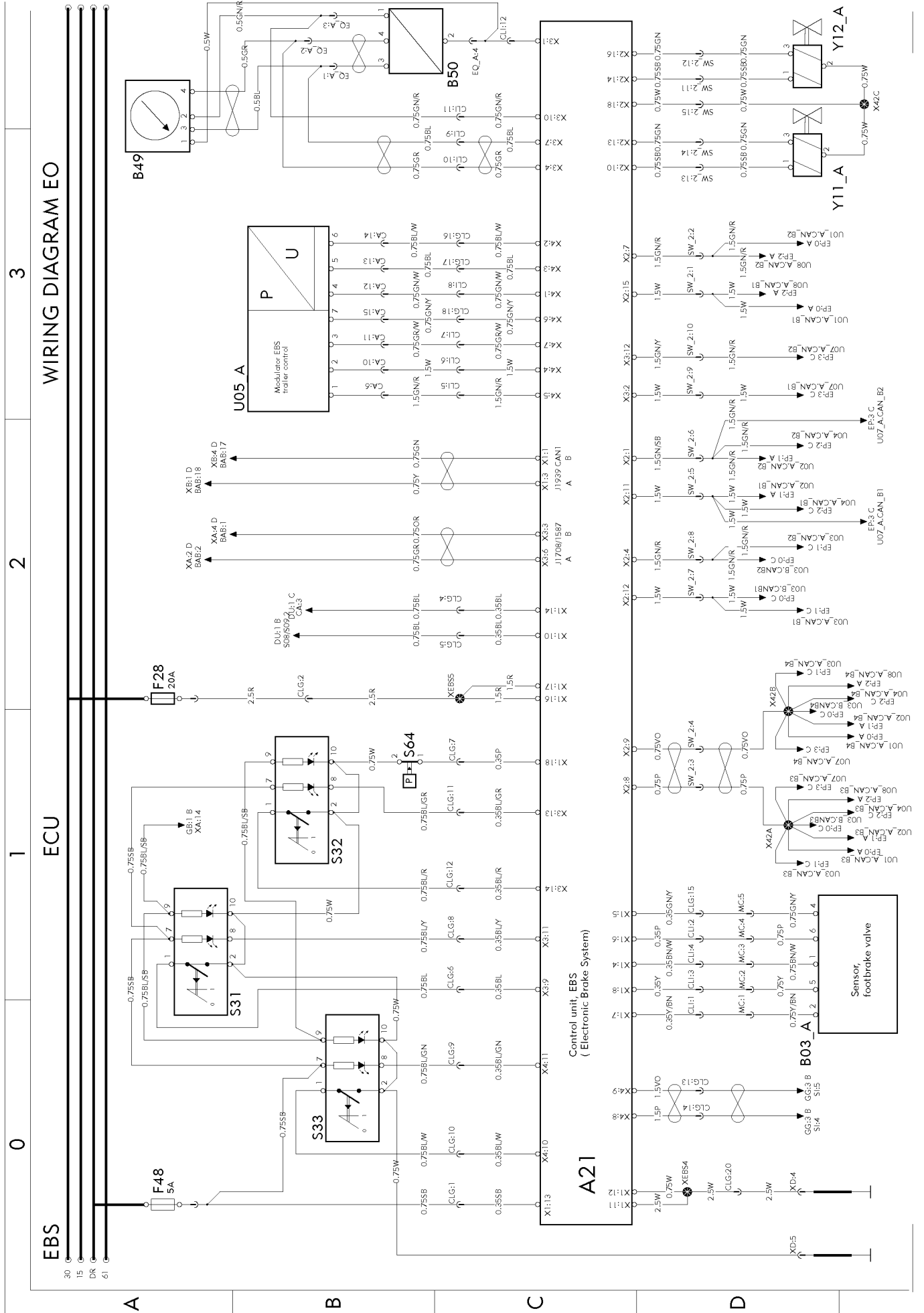


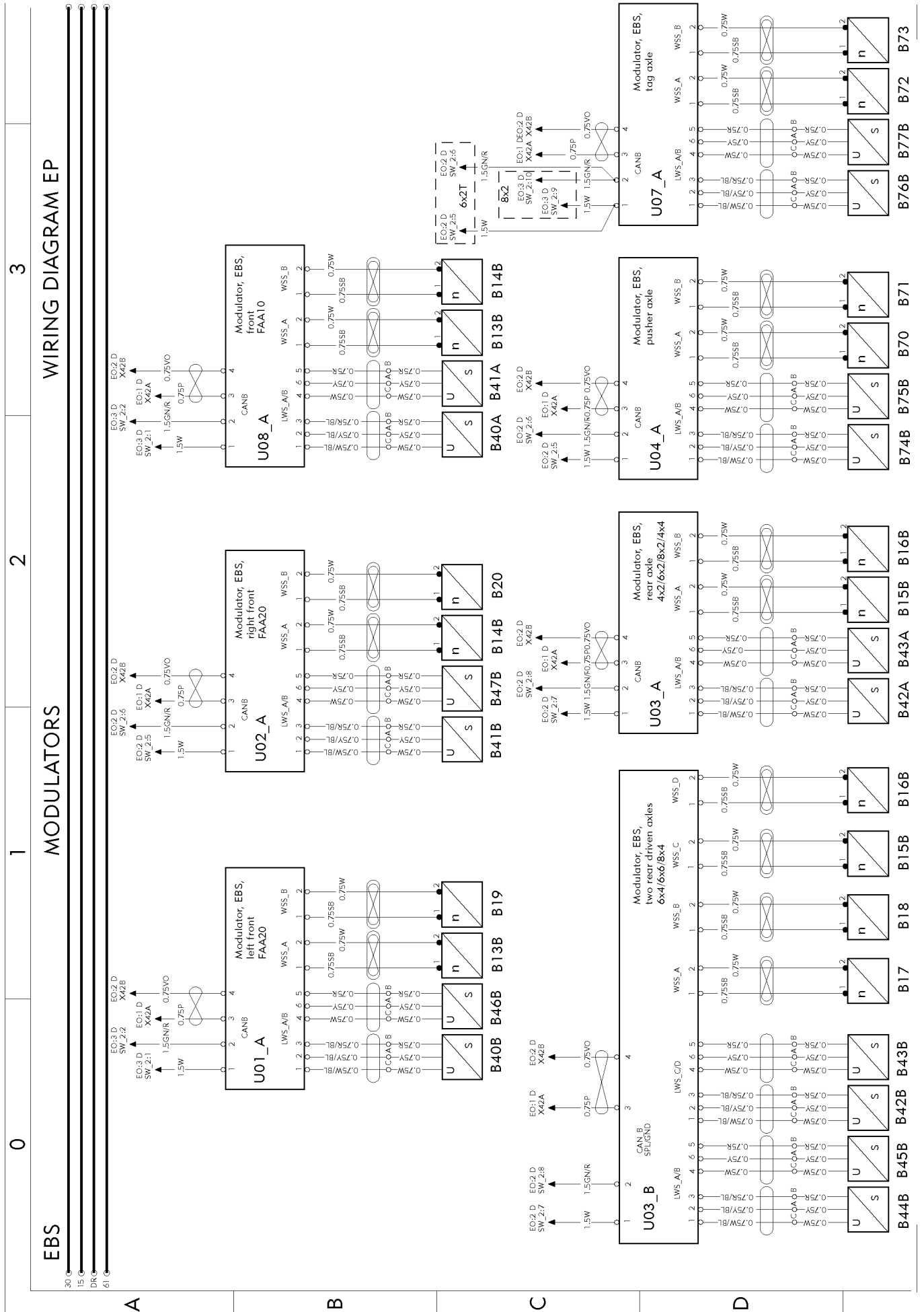


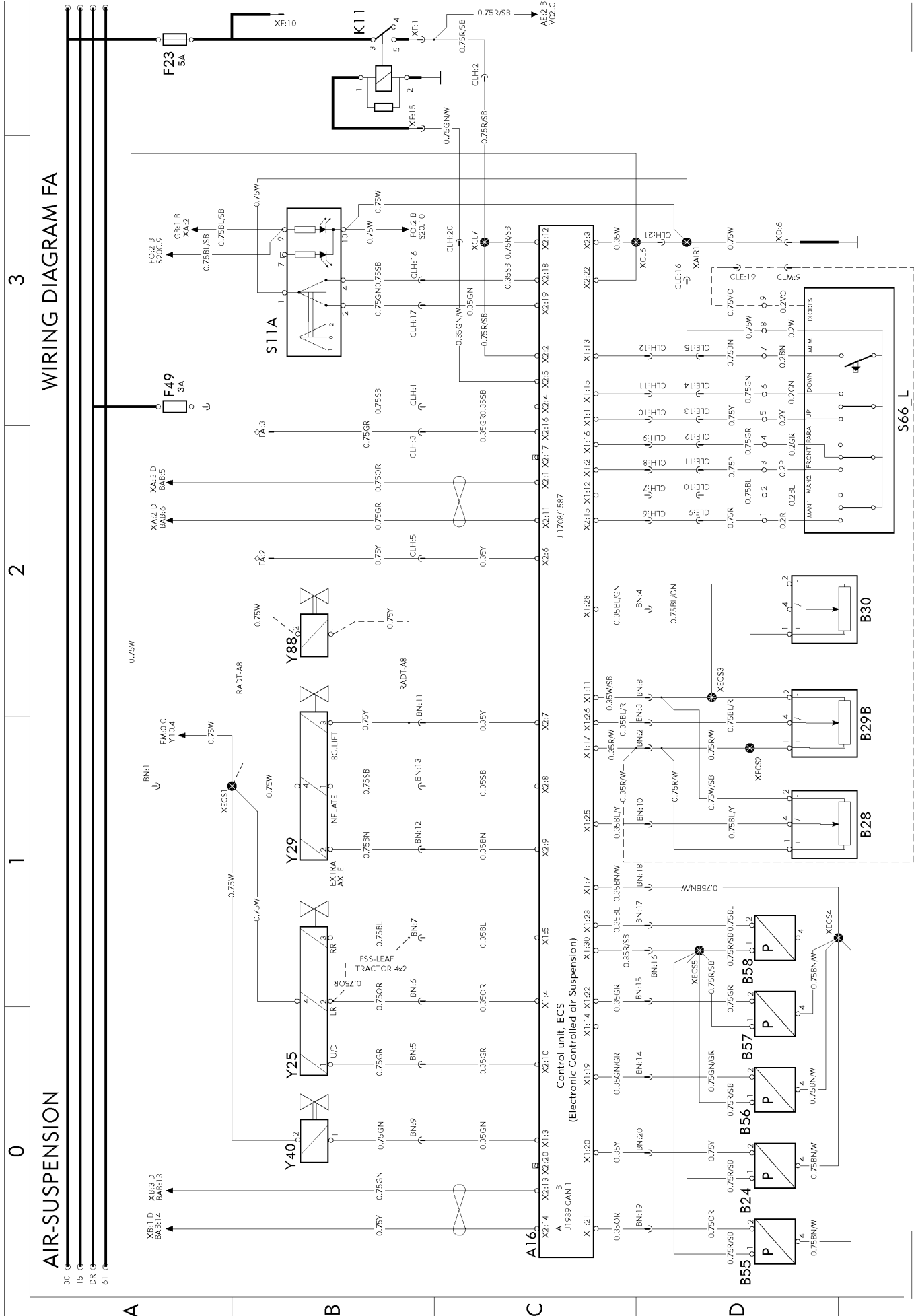


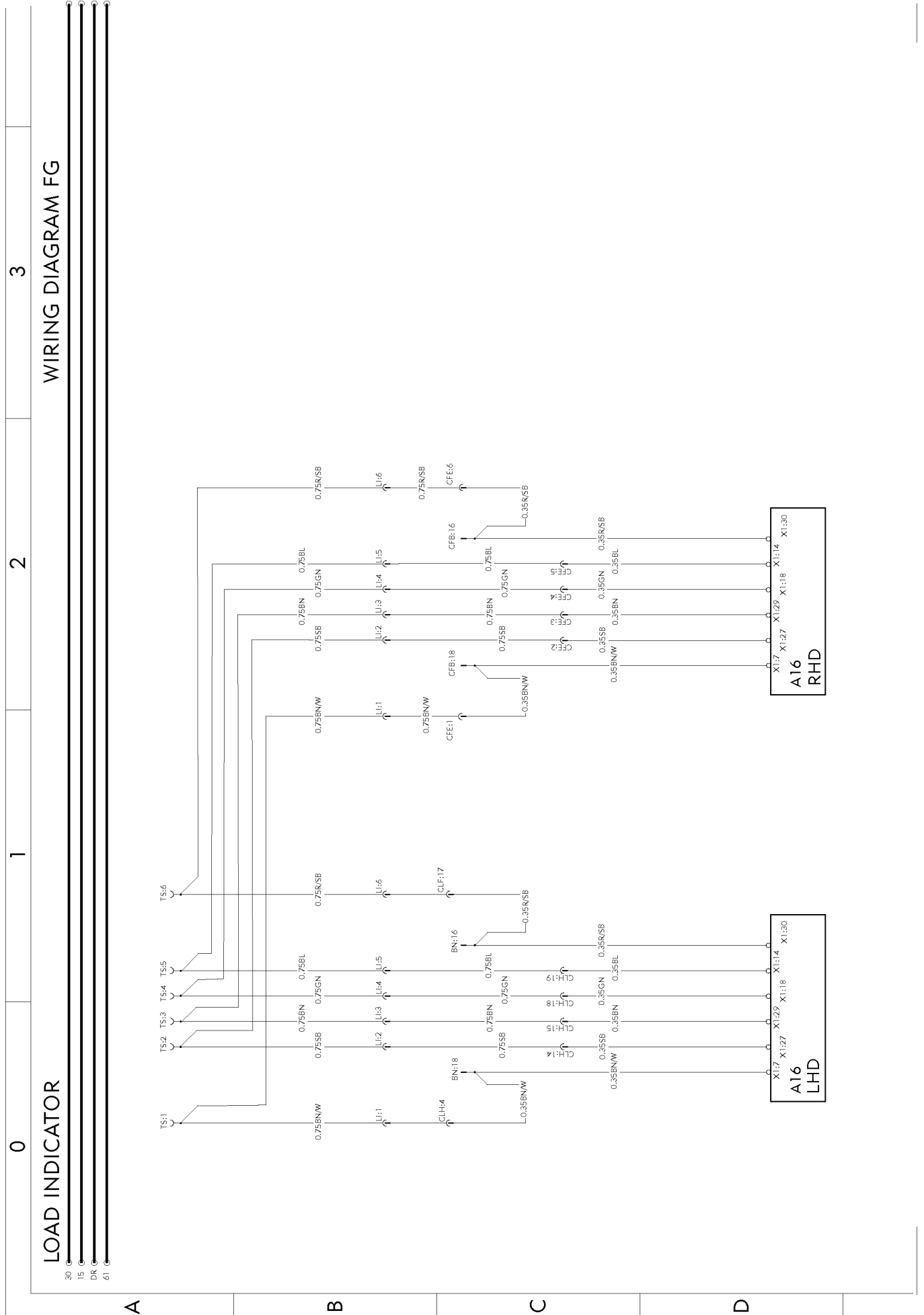


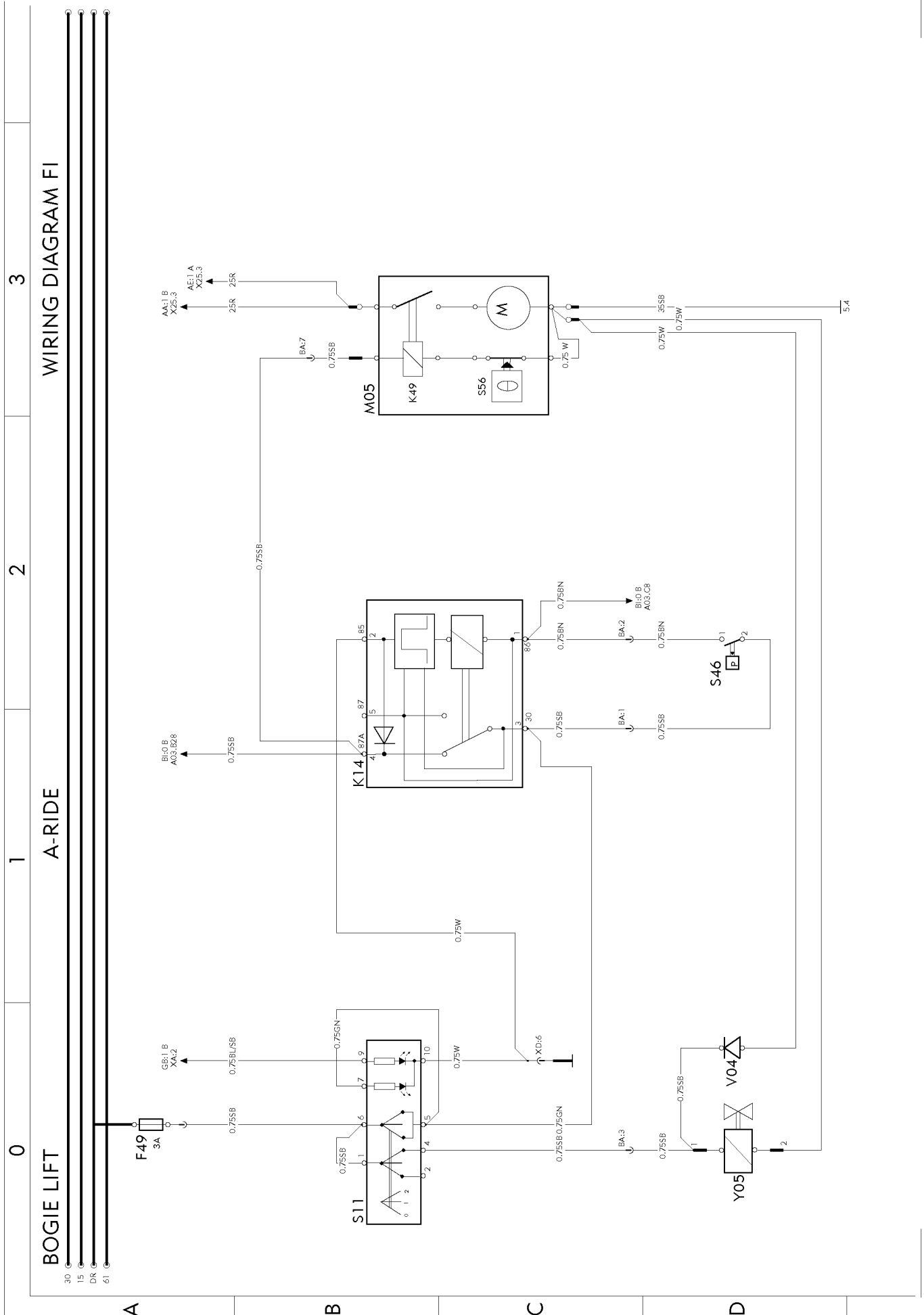


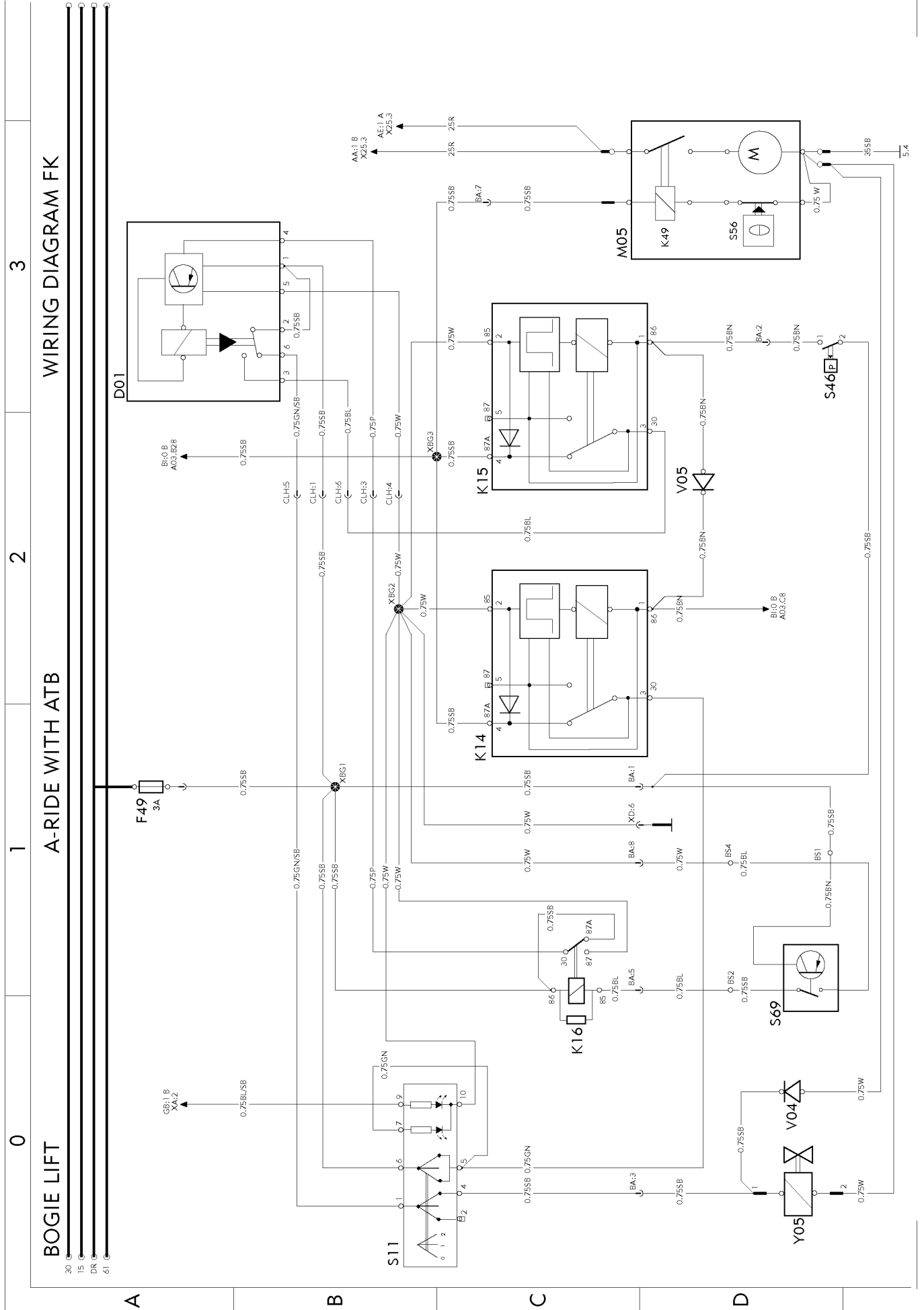


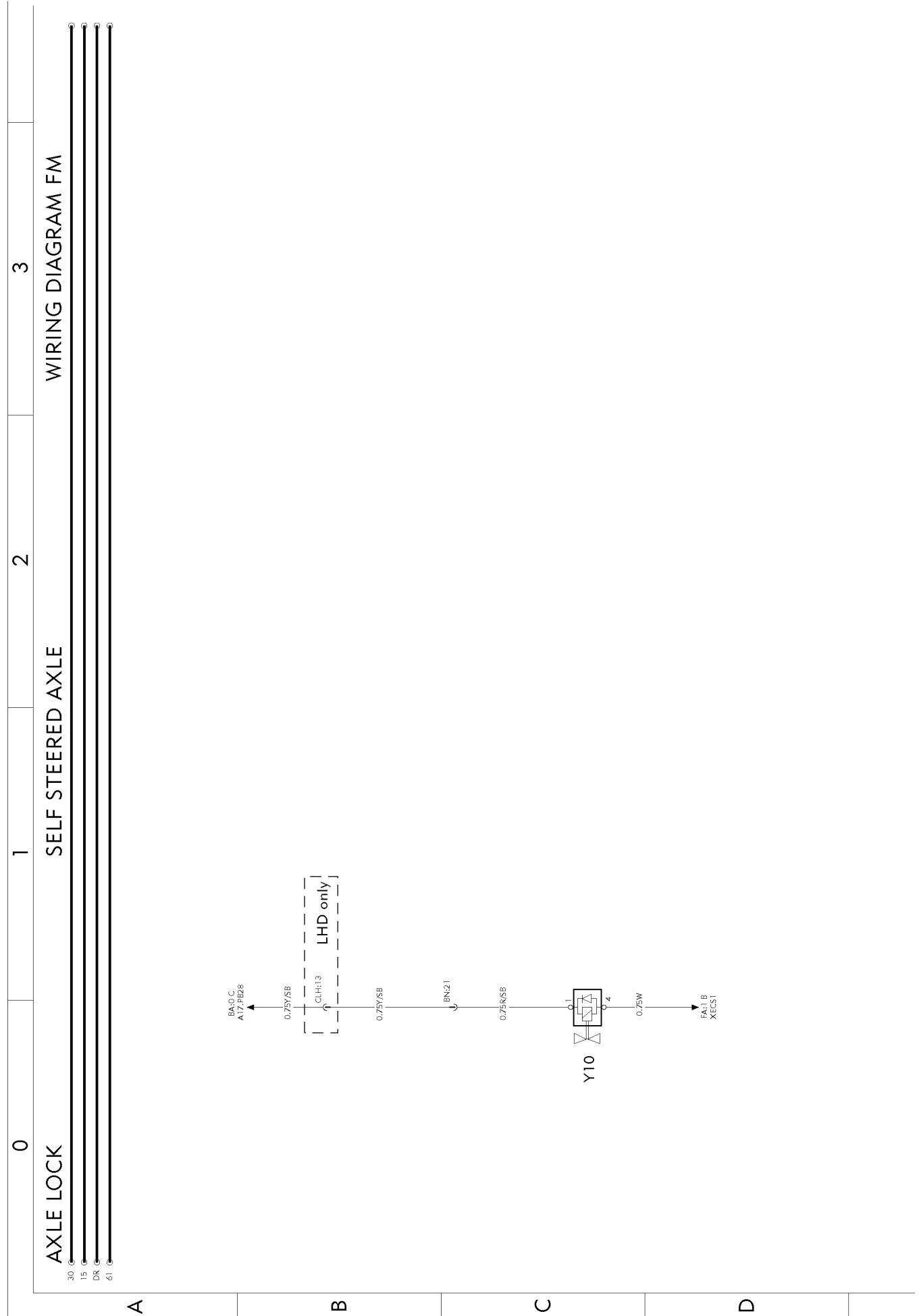


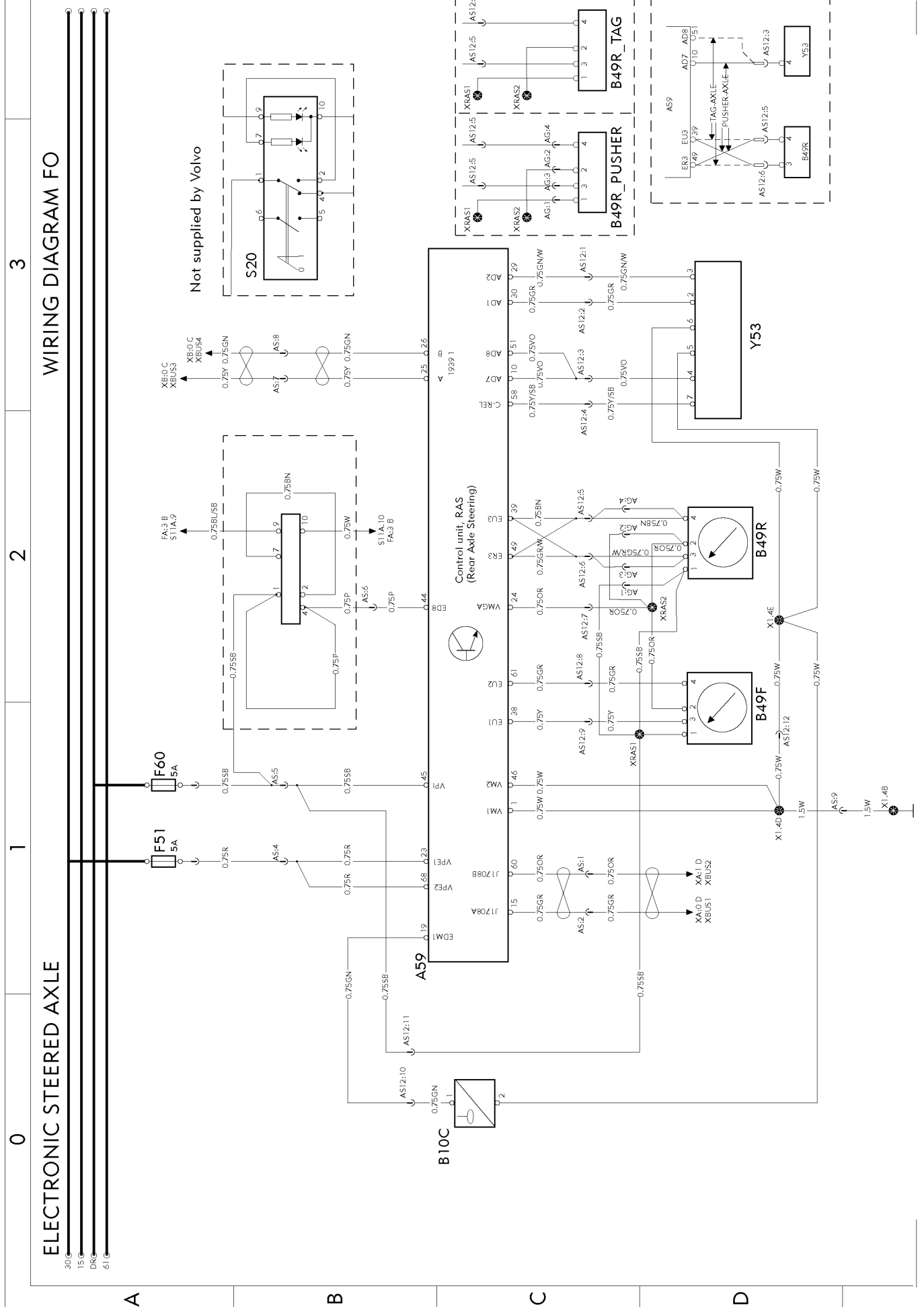


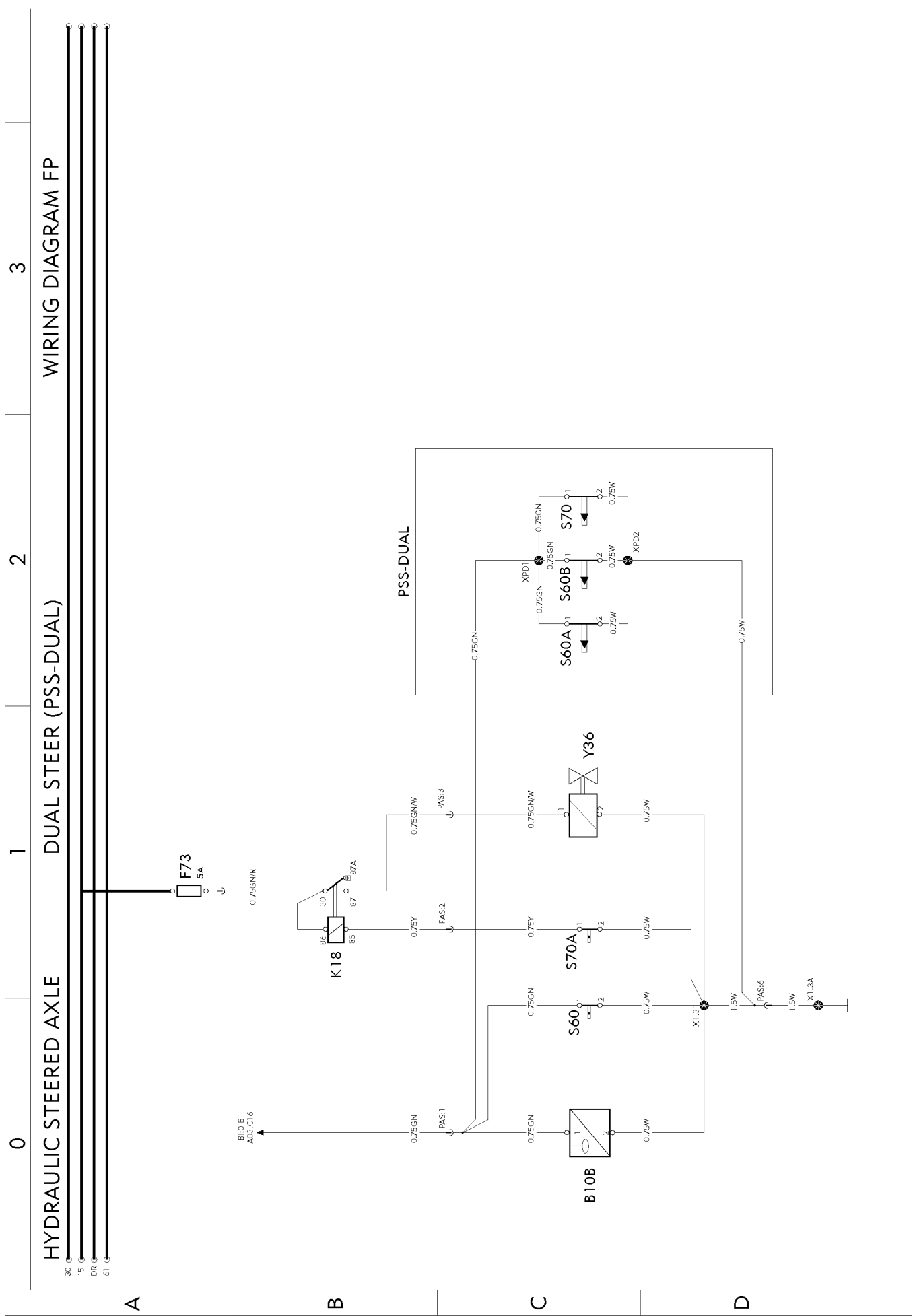


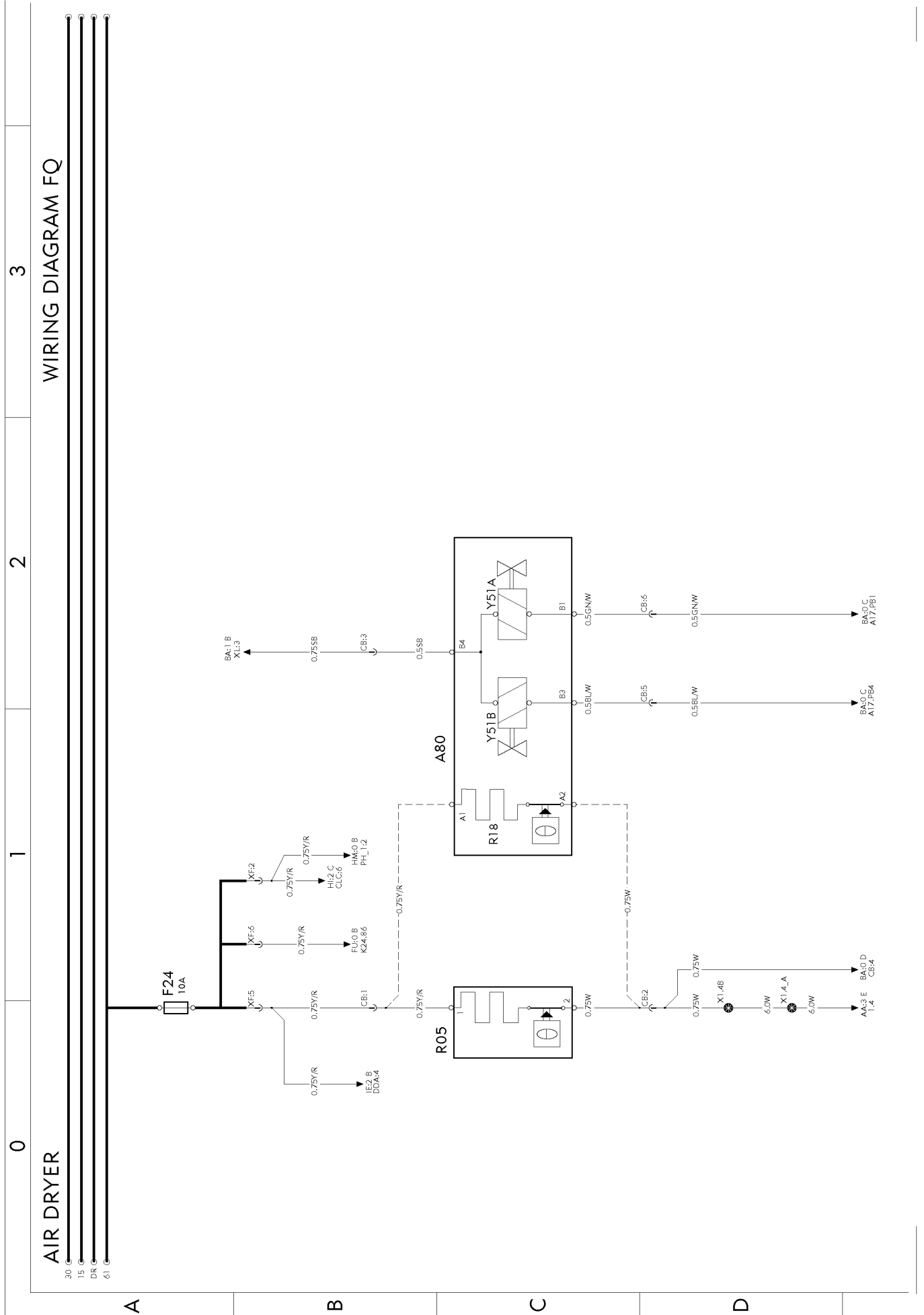


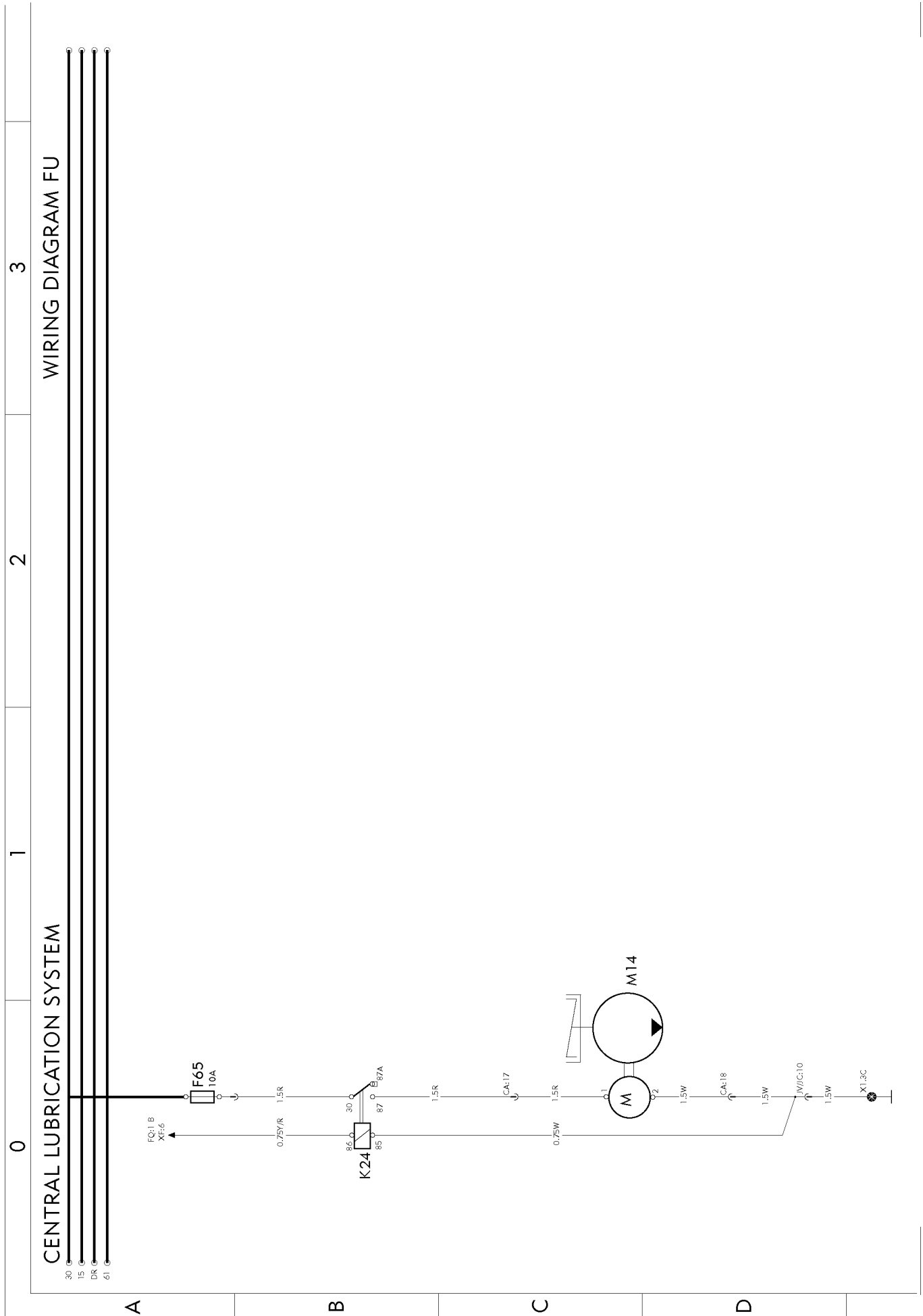


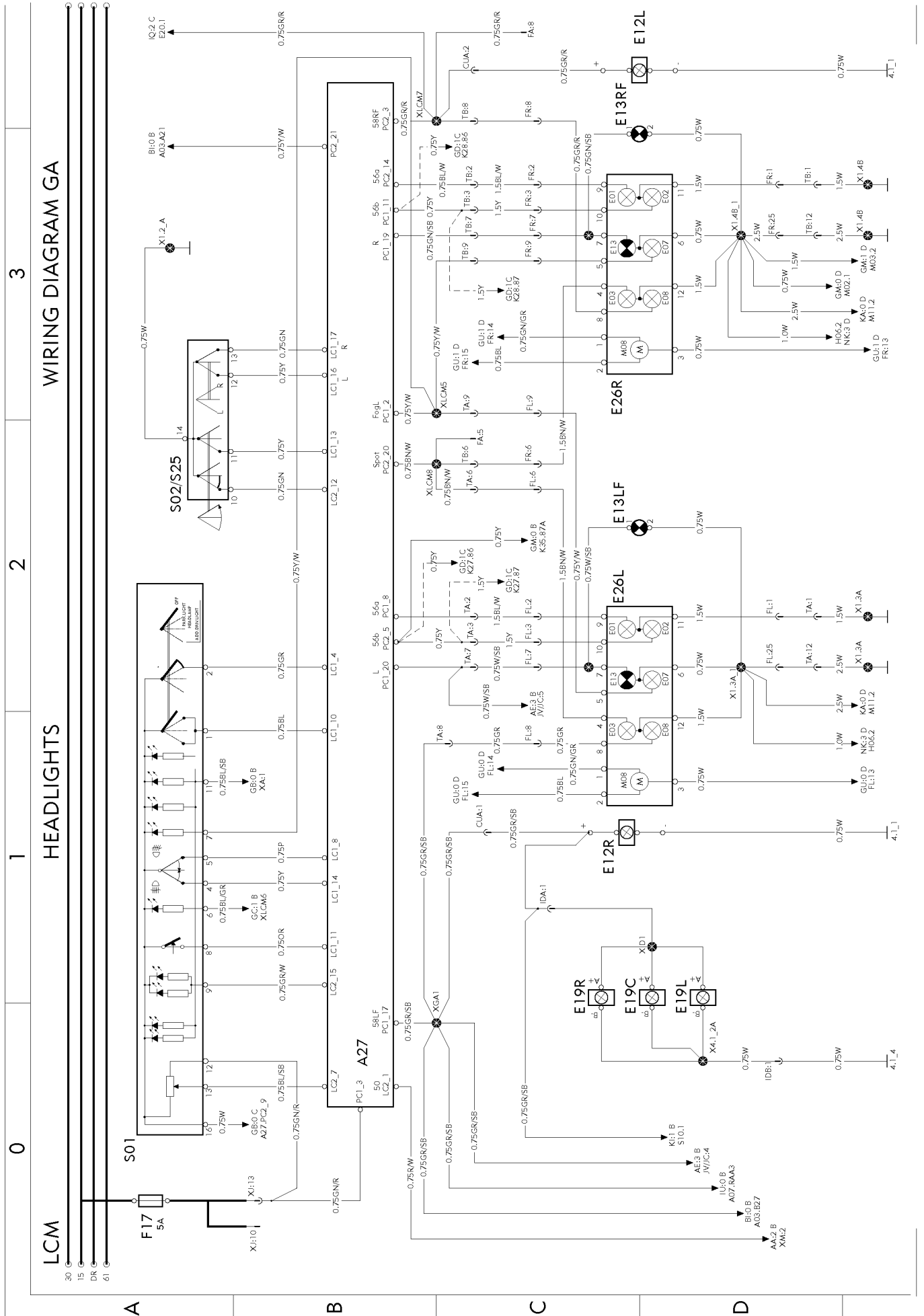


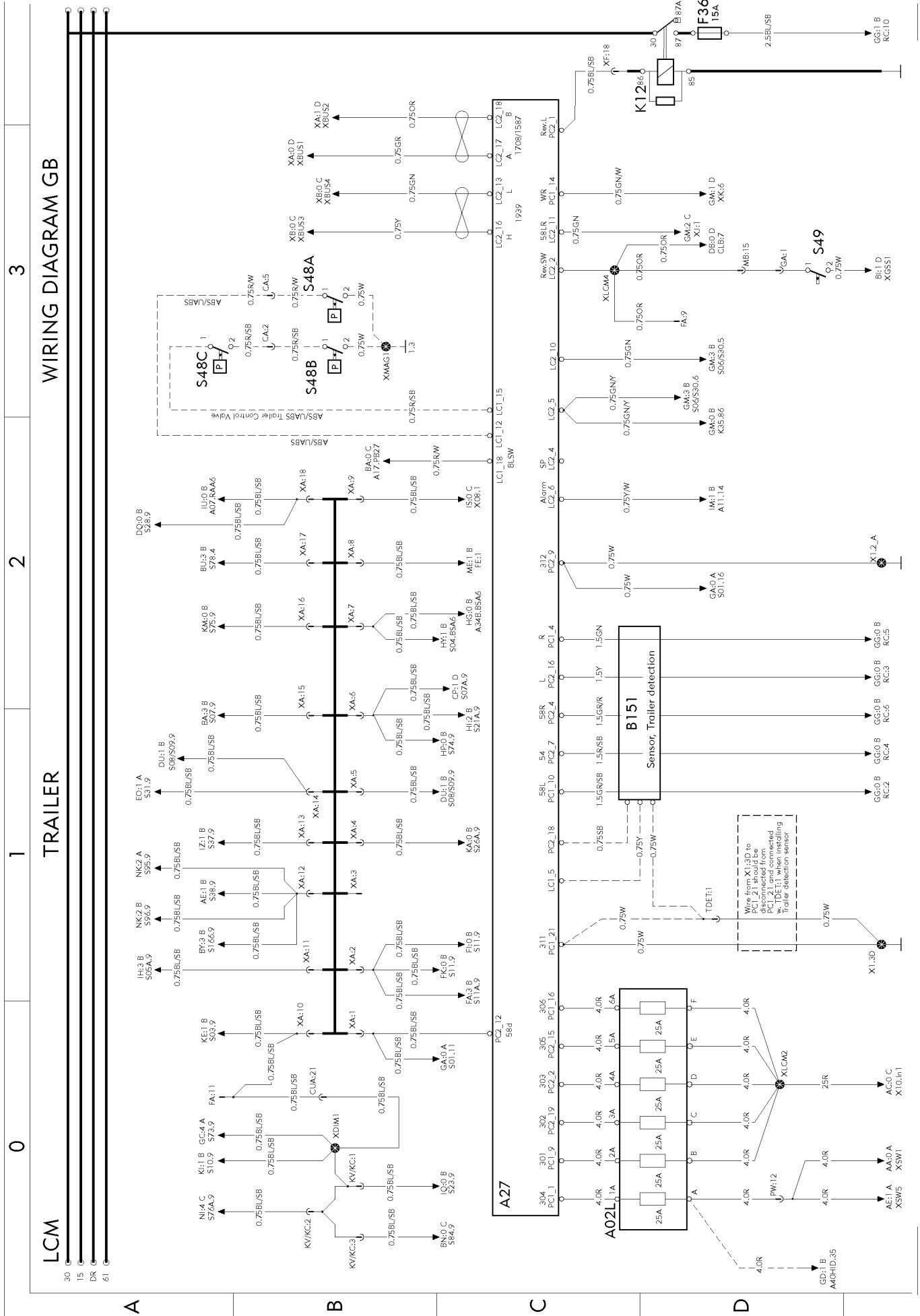








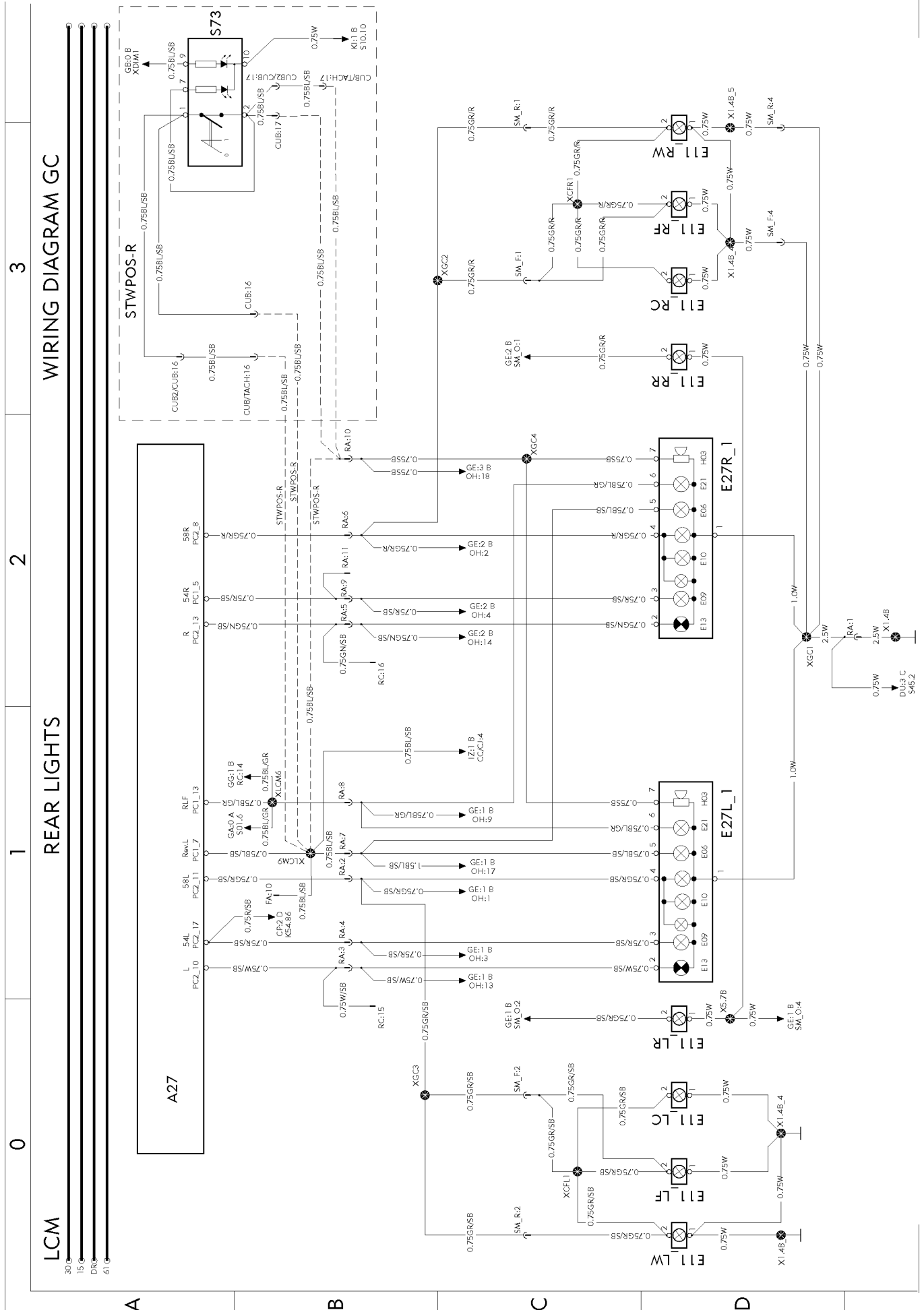


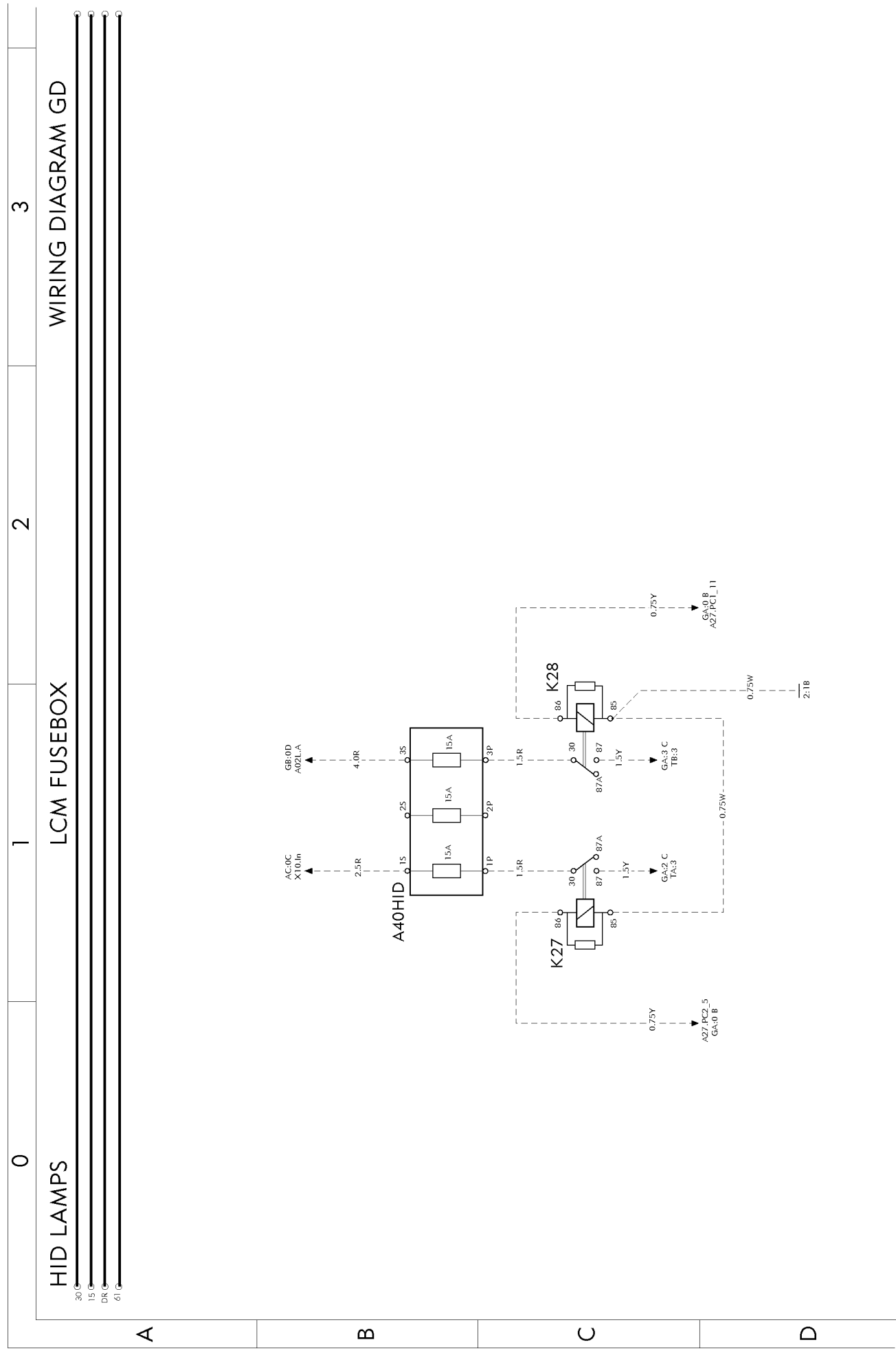


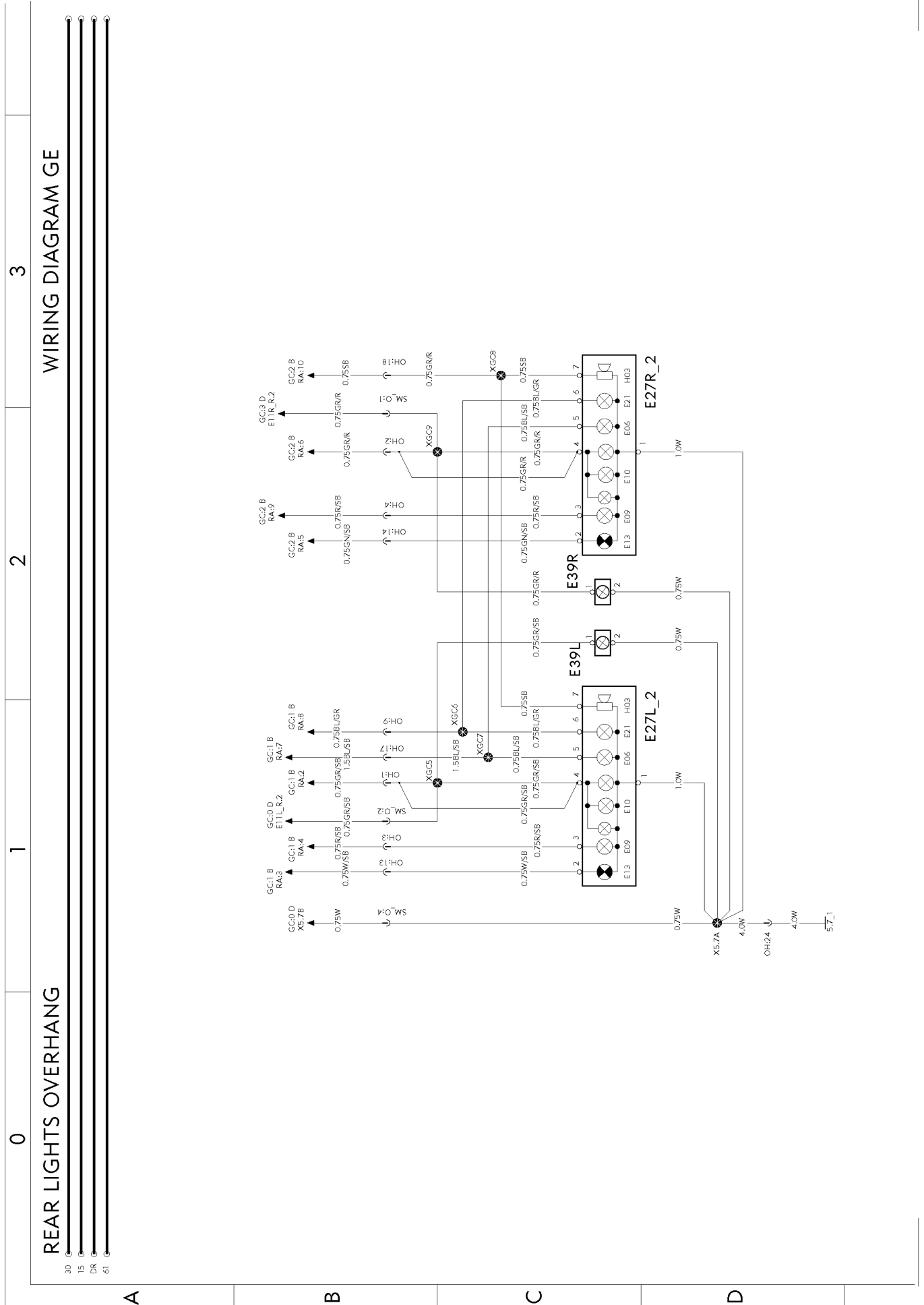
WIRING DIAGRAM GB

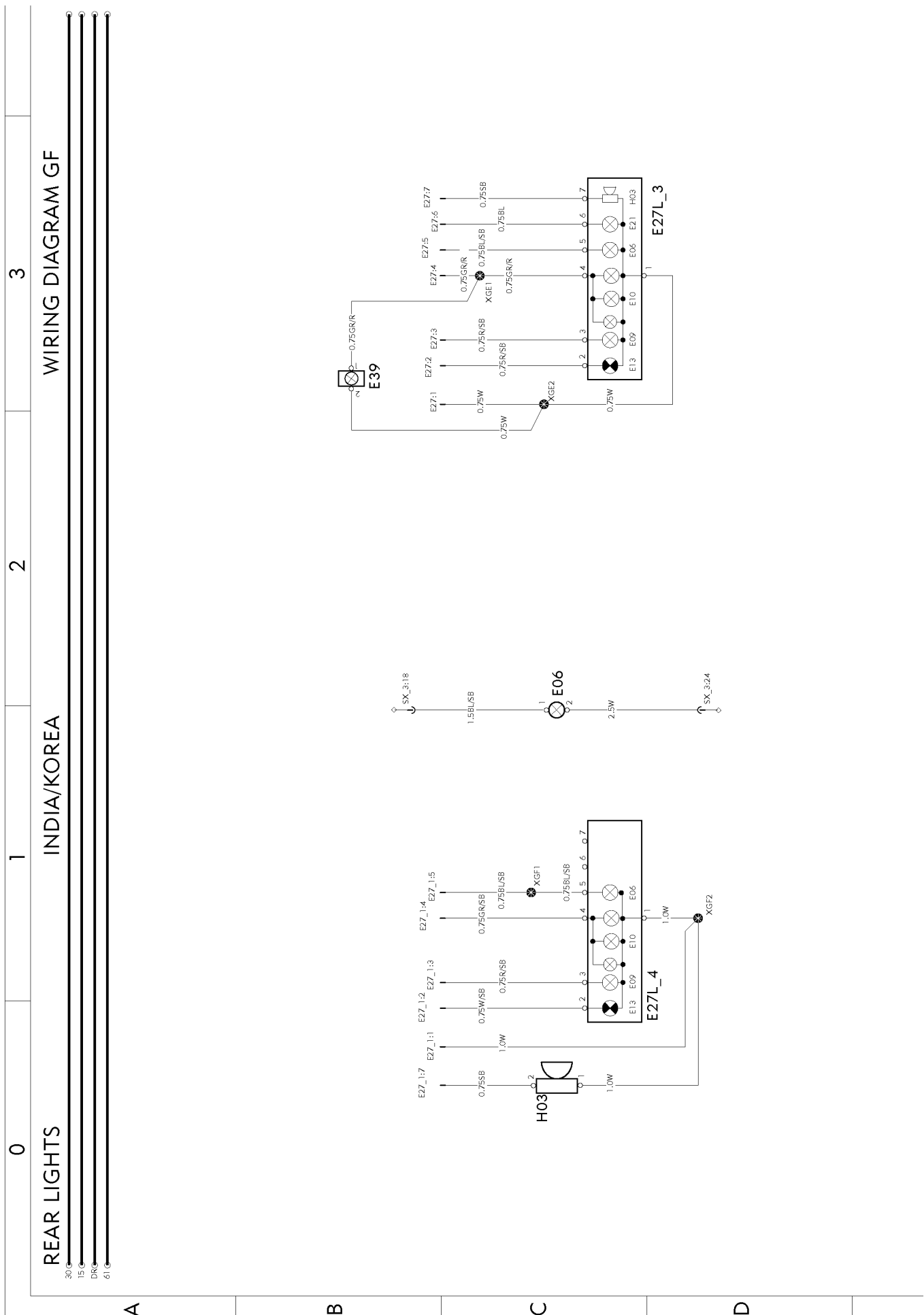
TRAILER

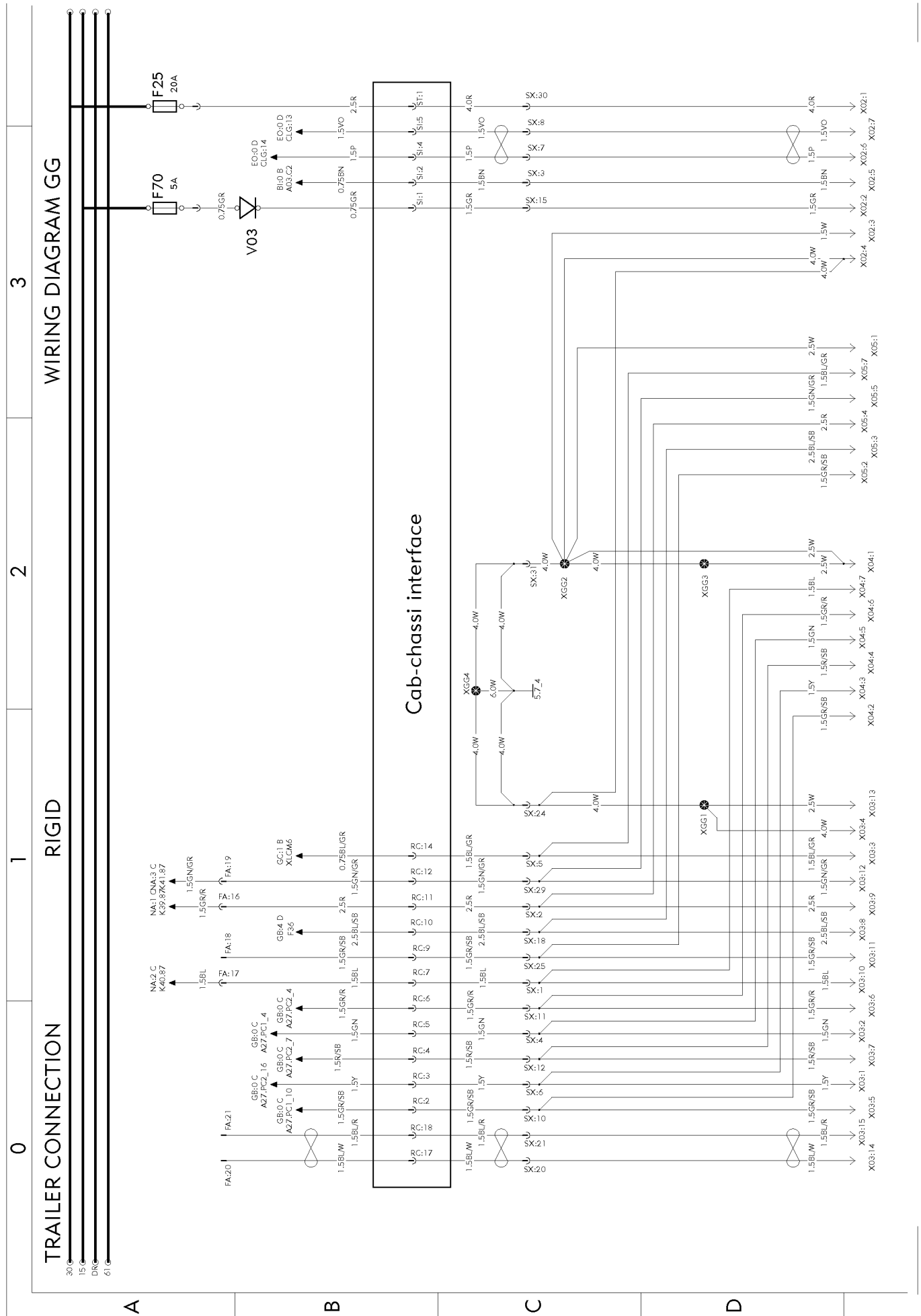
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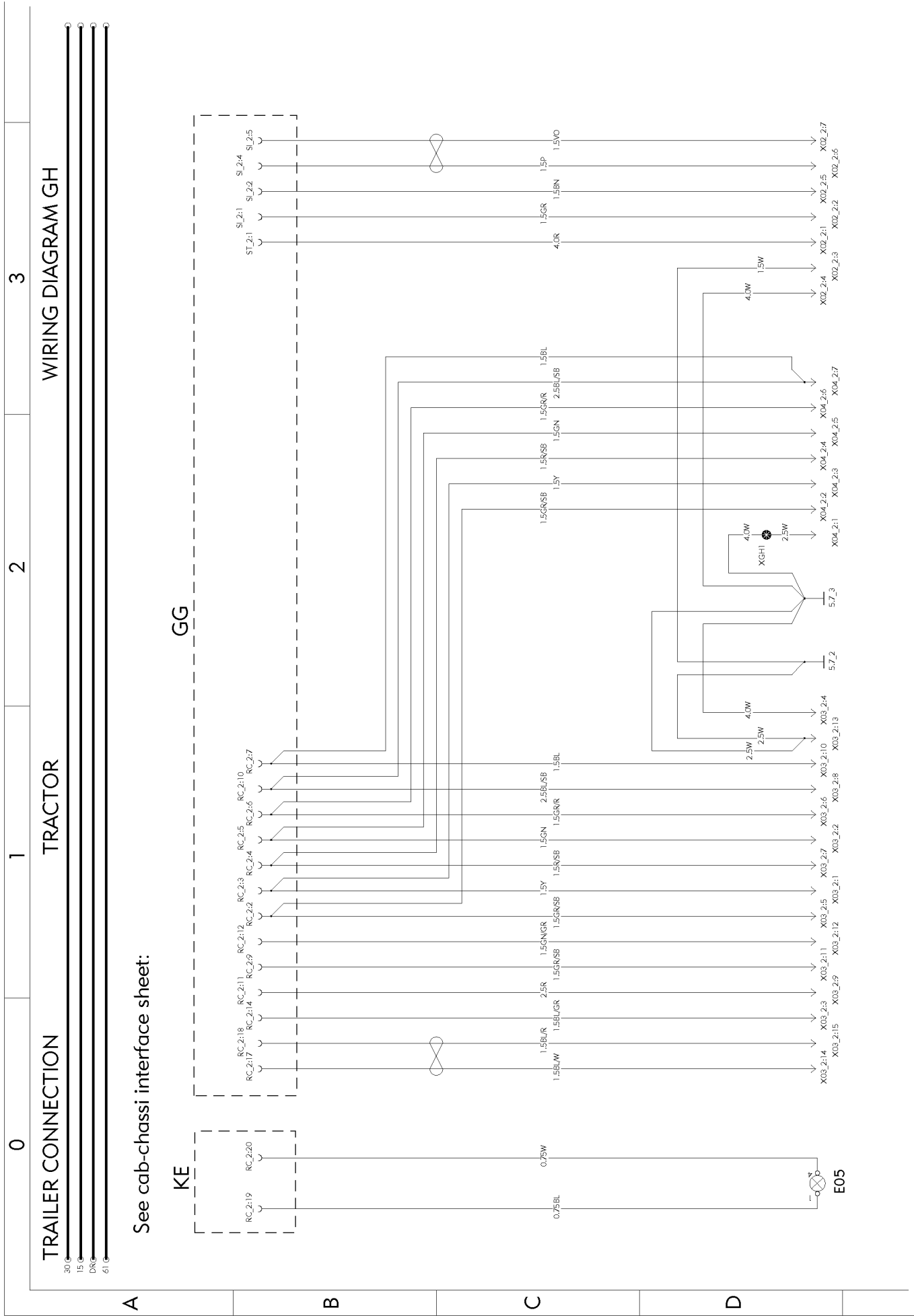




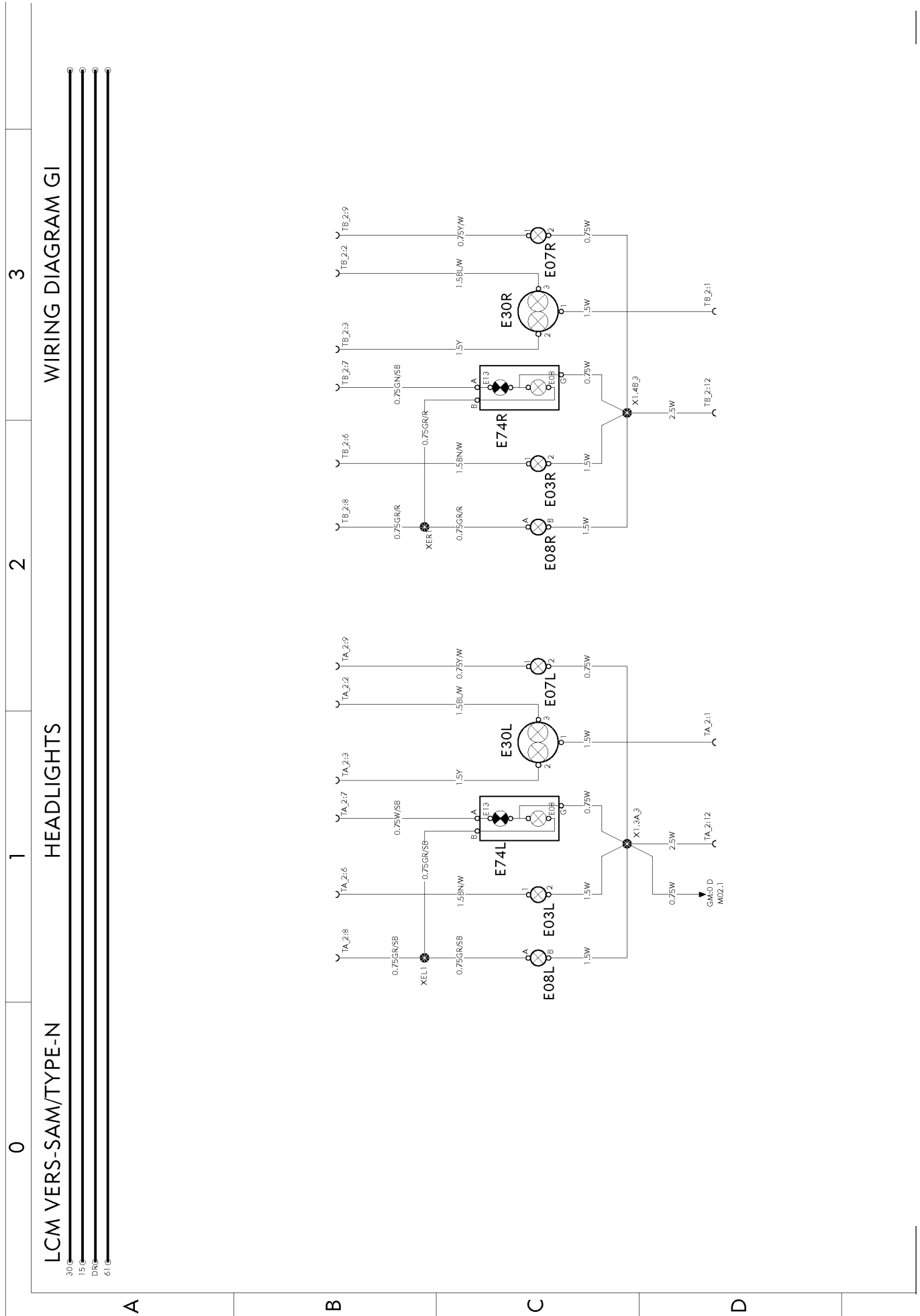


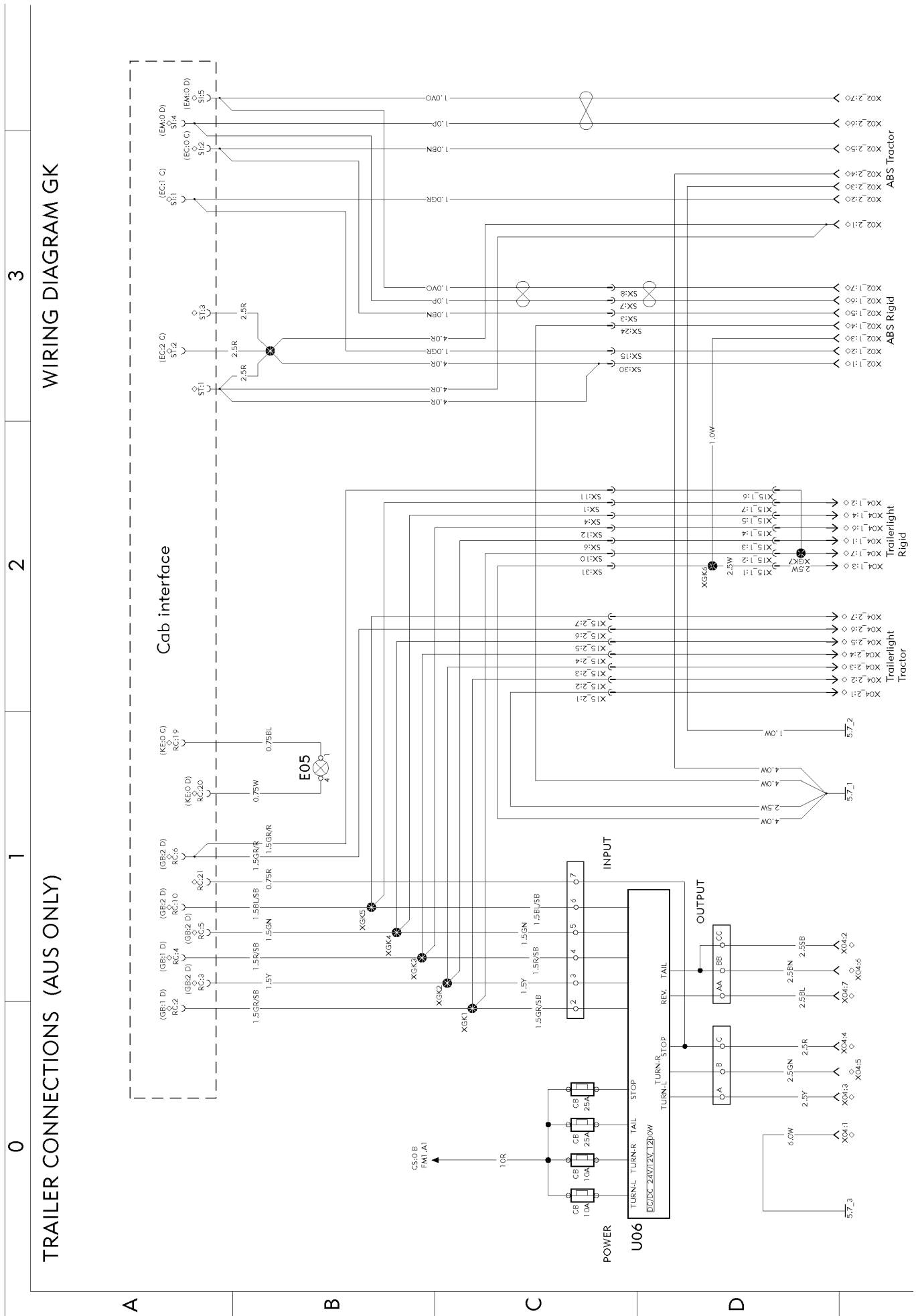


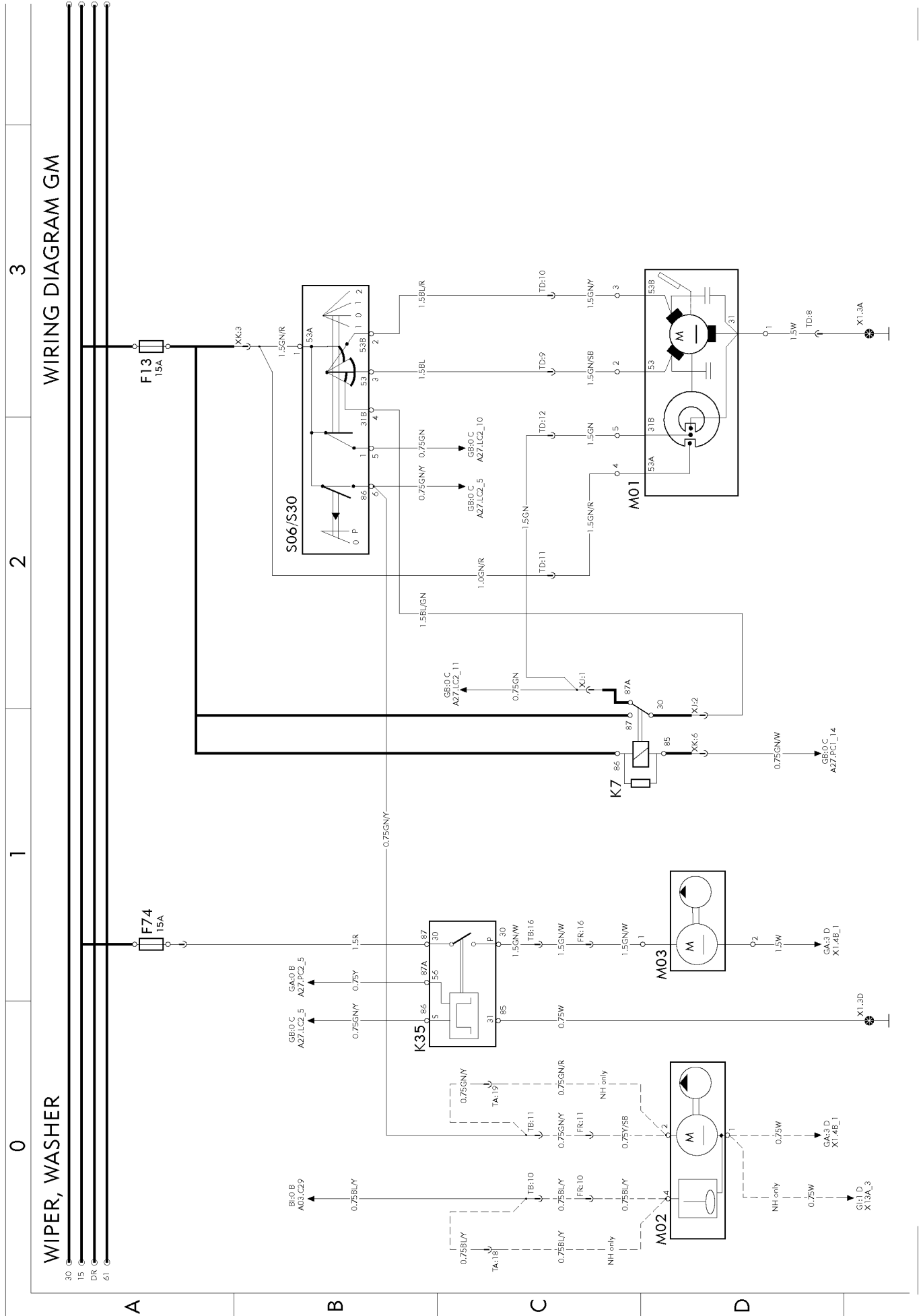


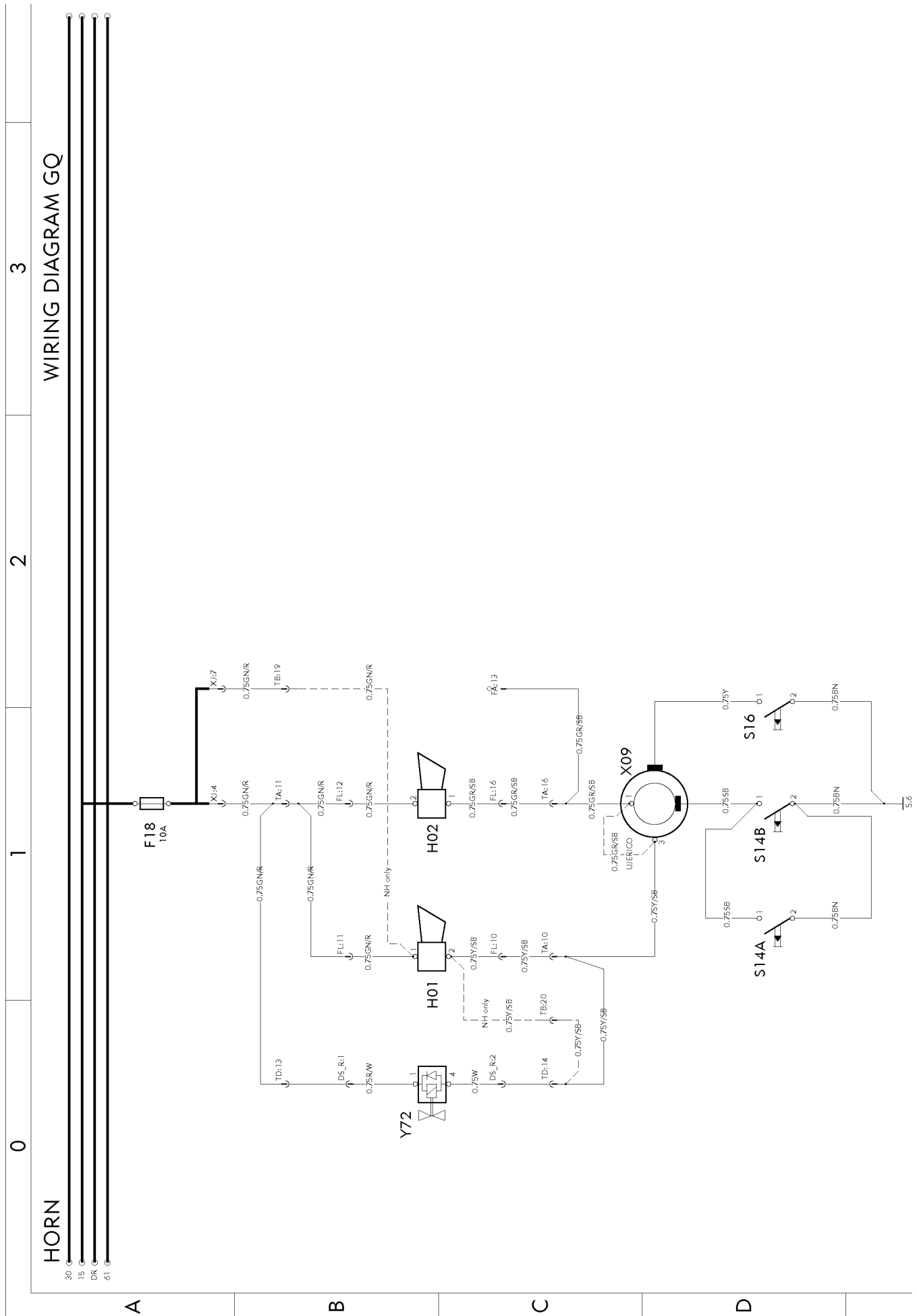


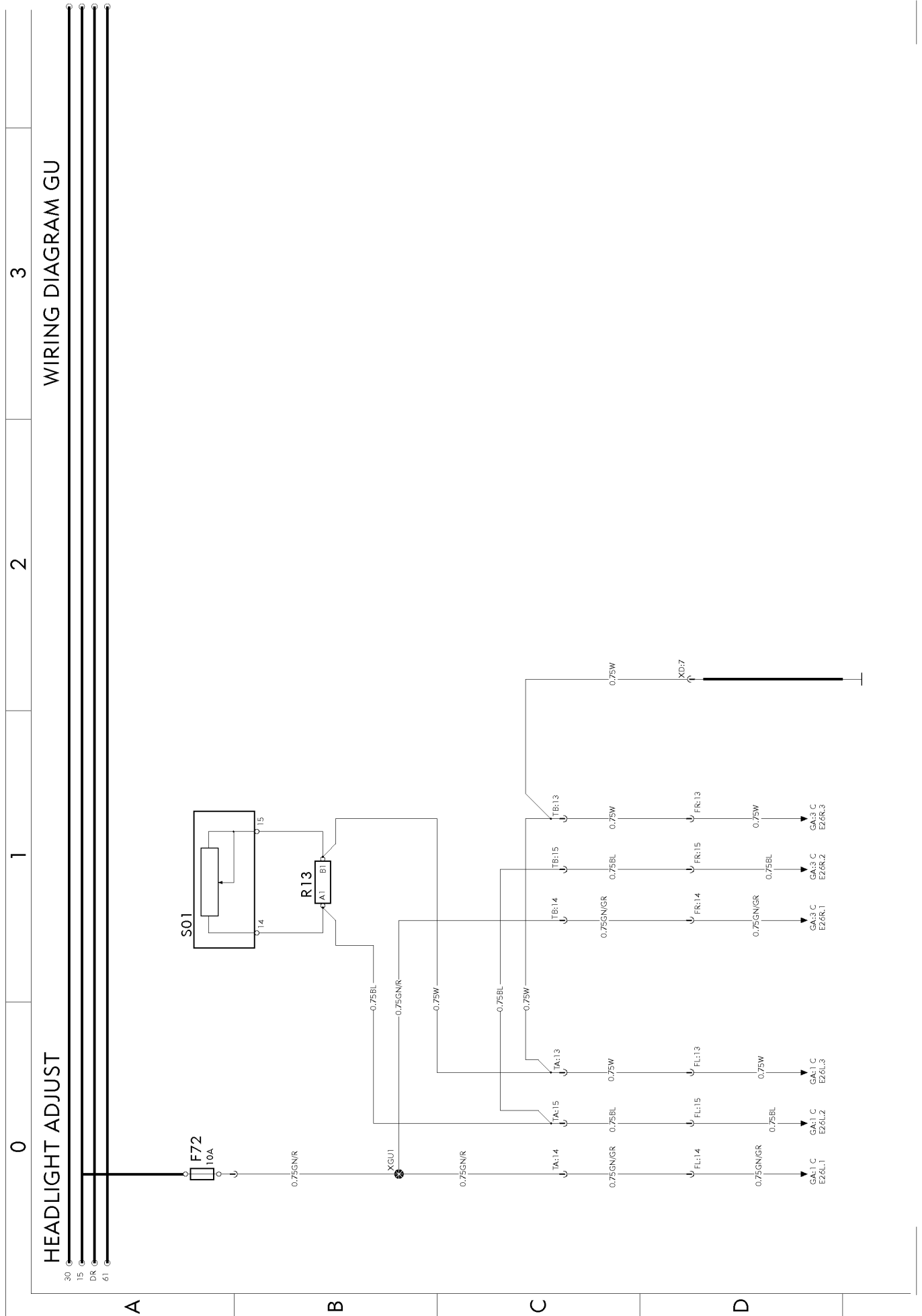
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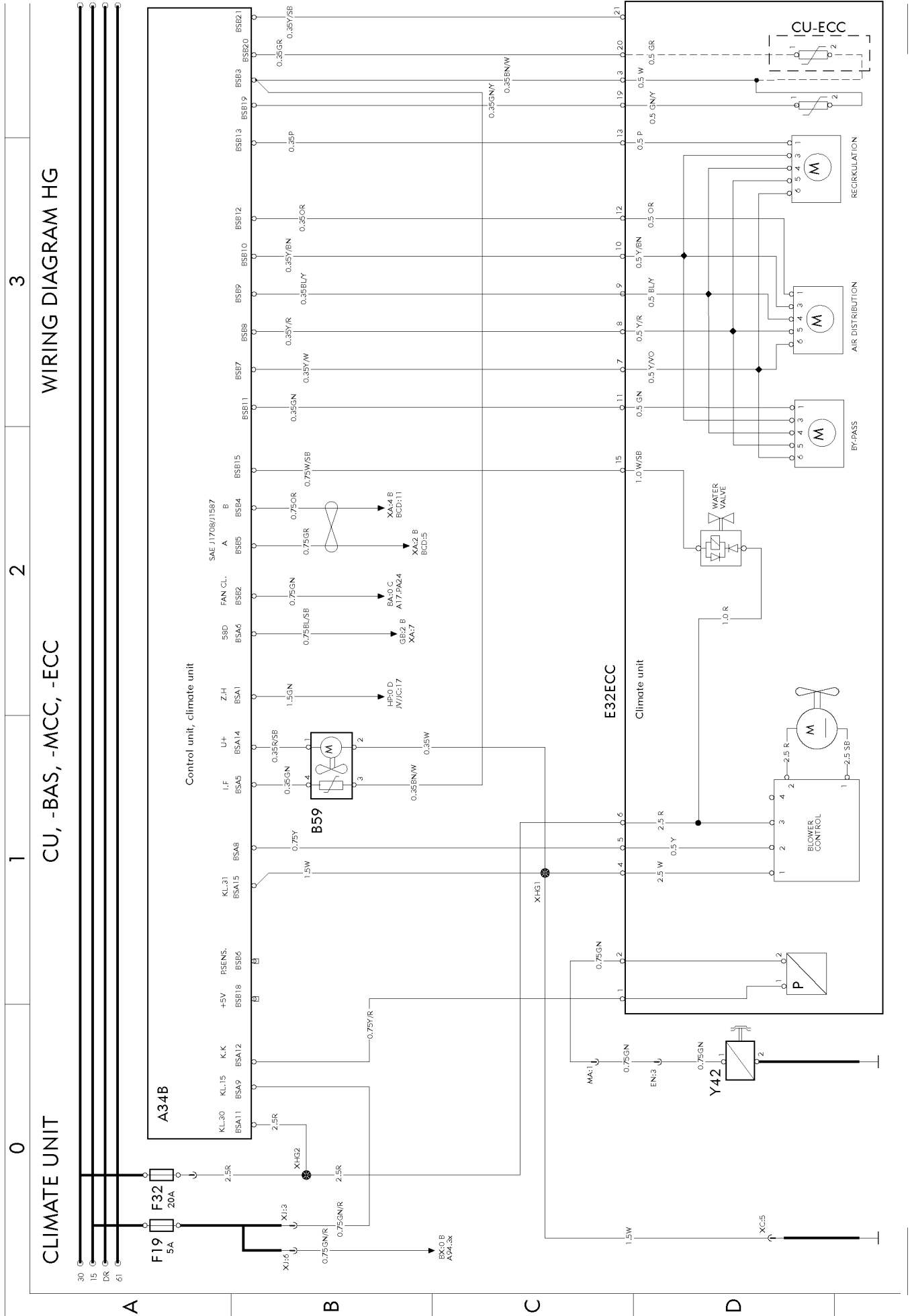


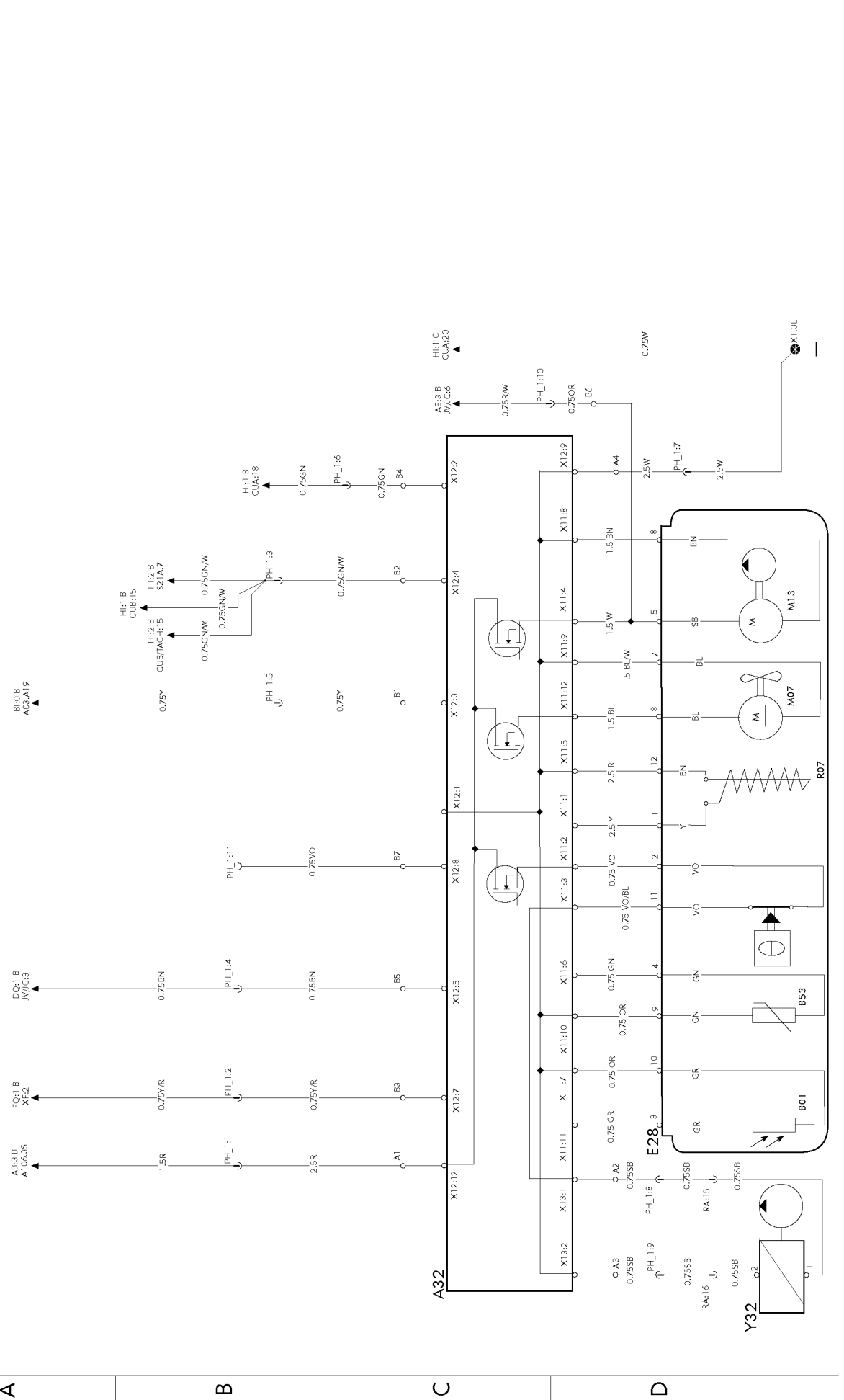
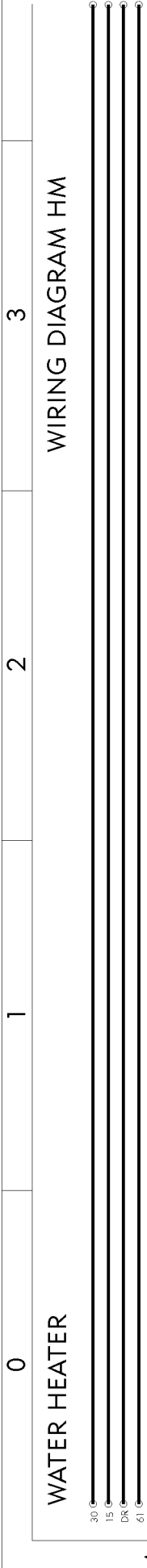


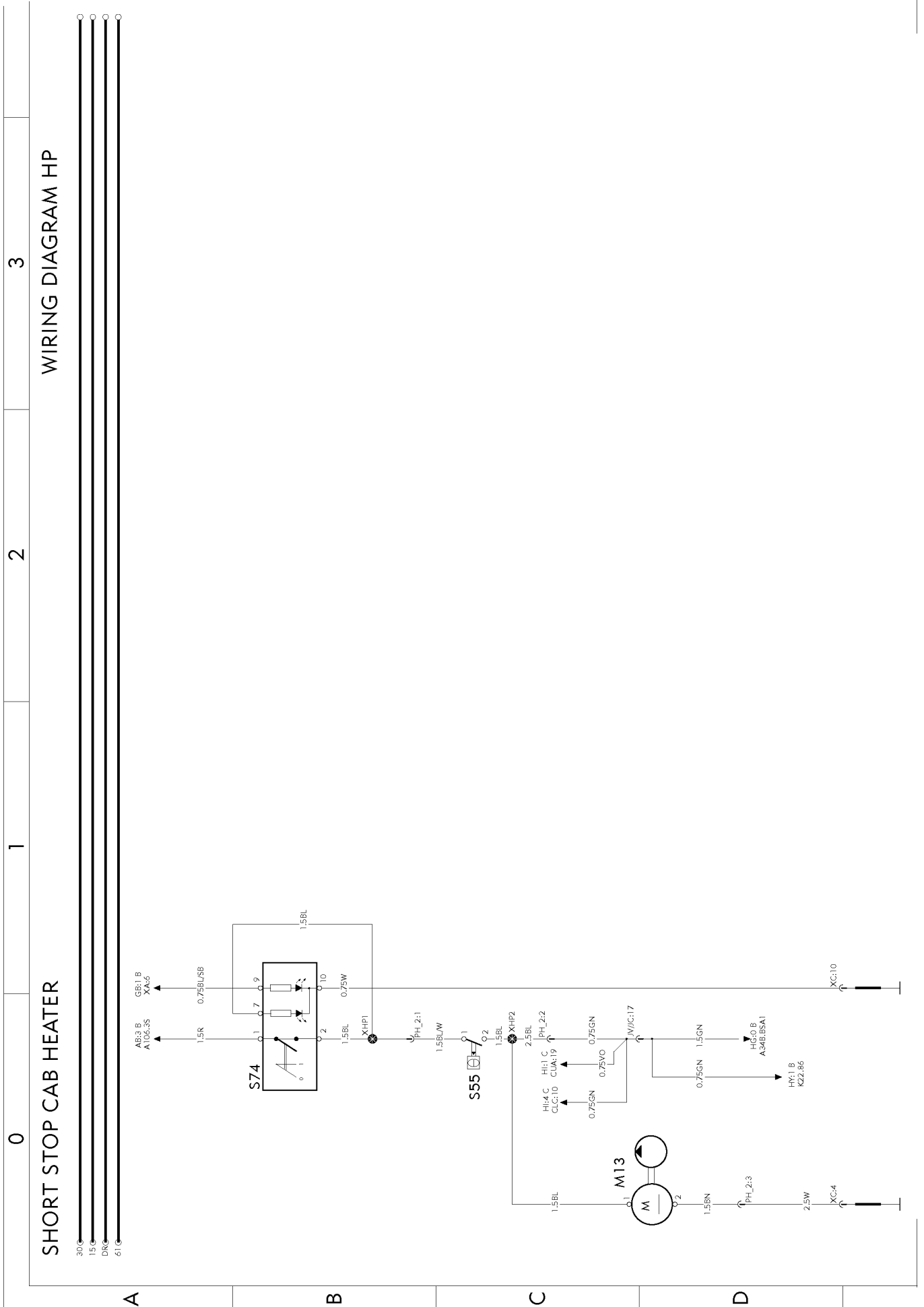


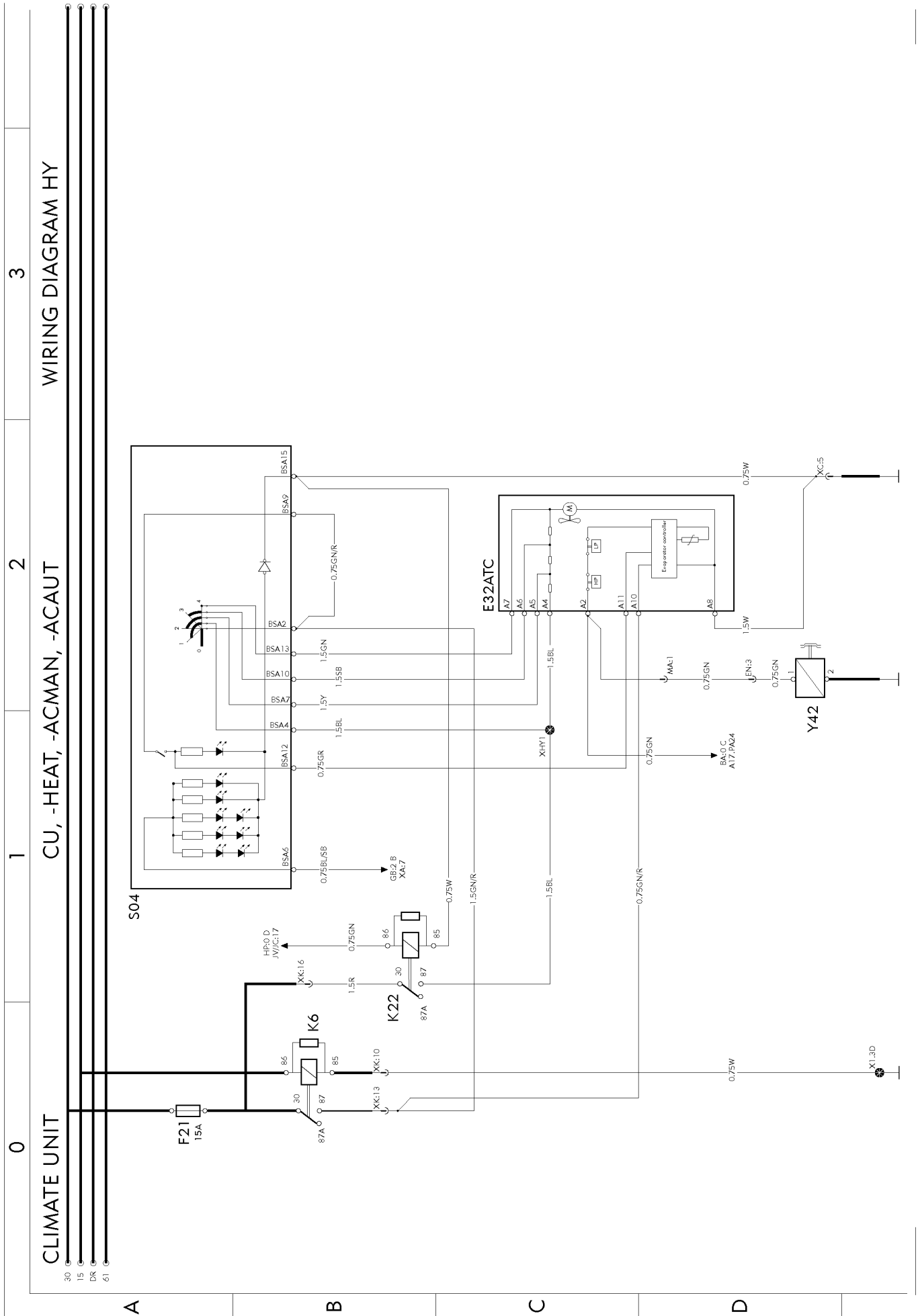


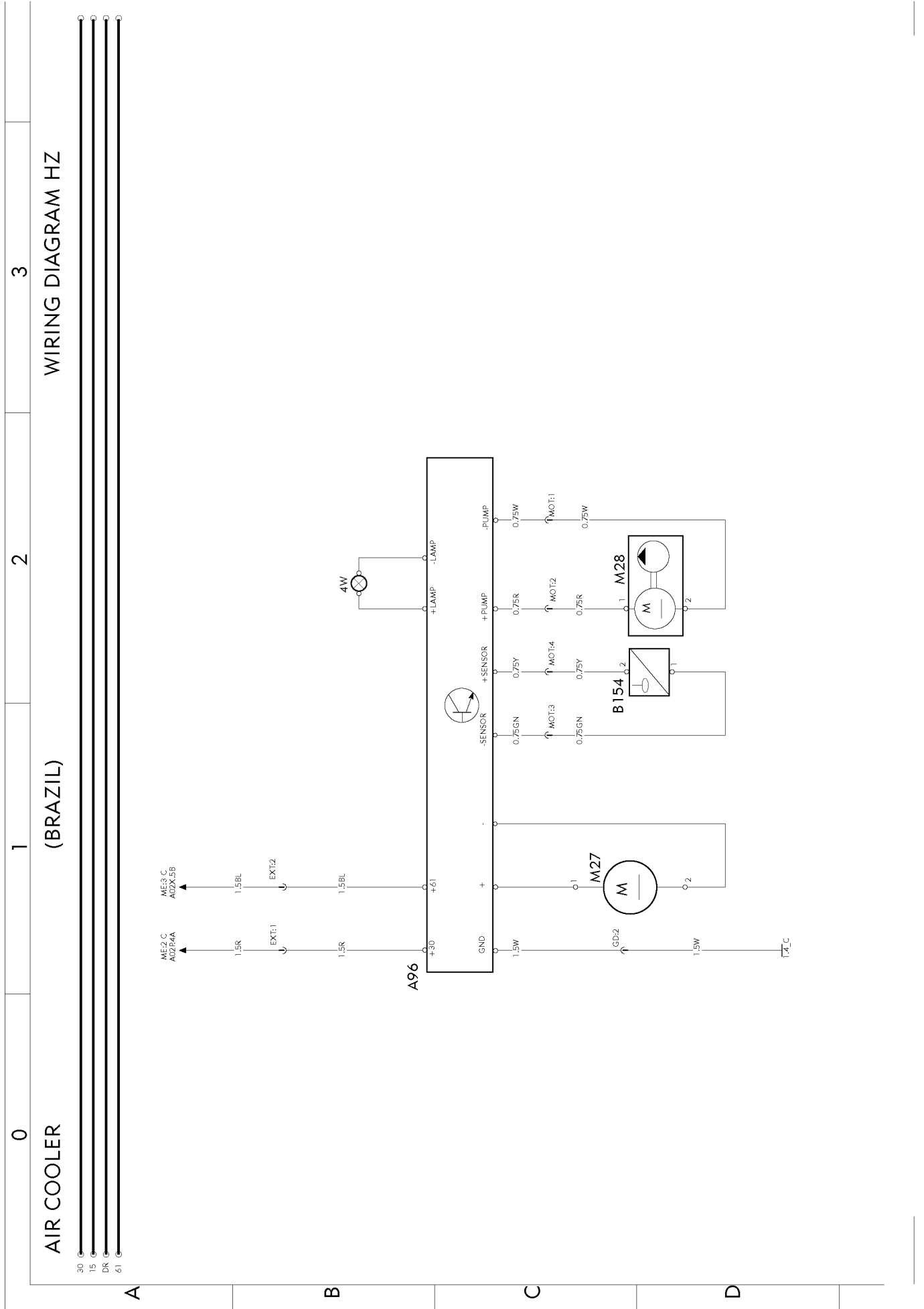


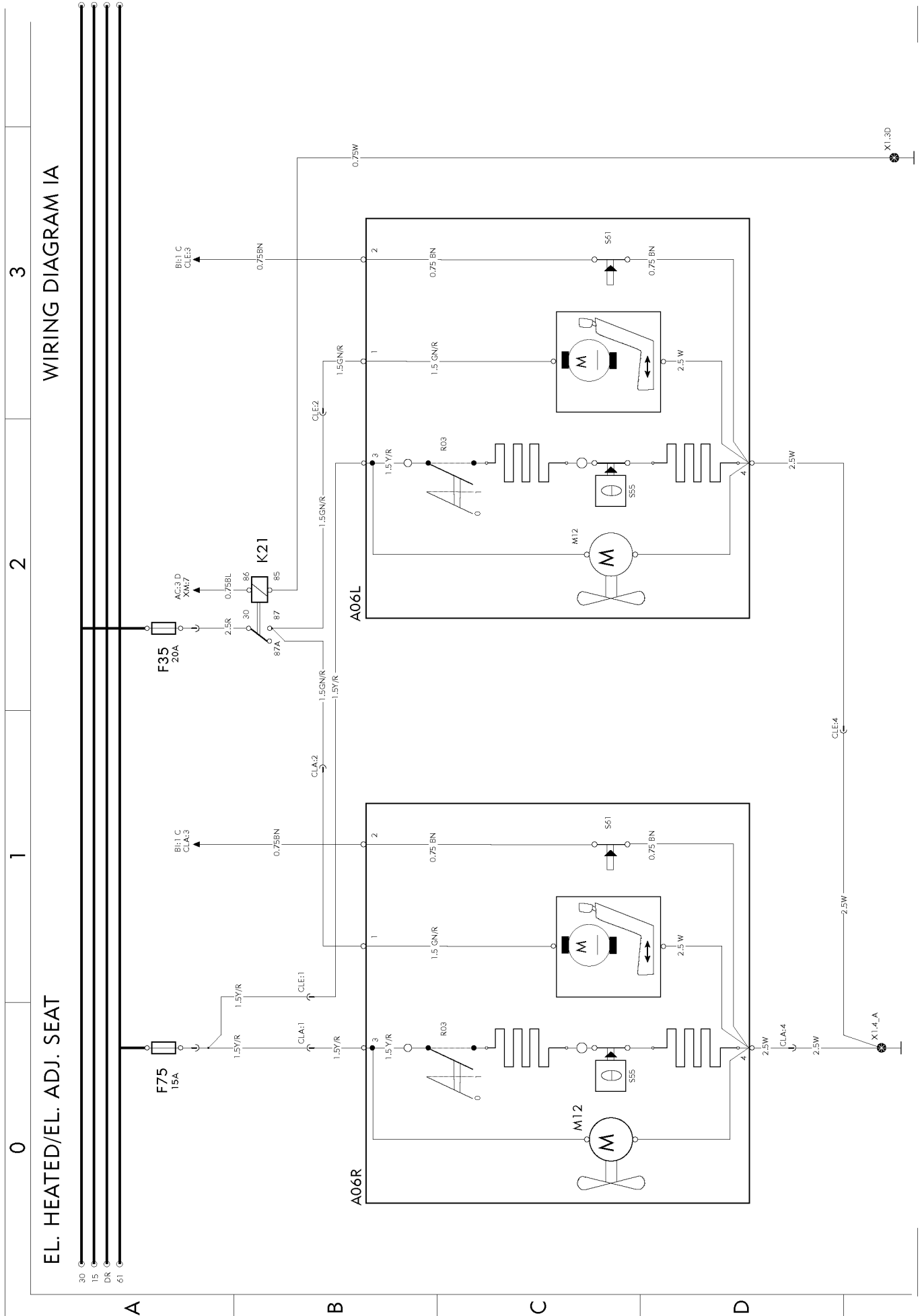


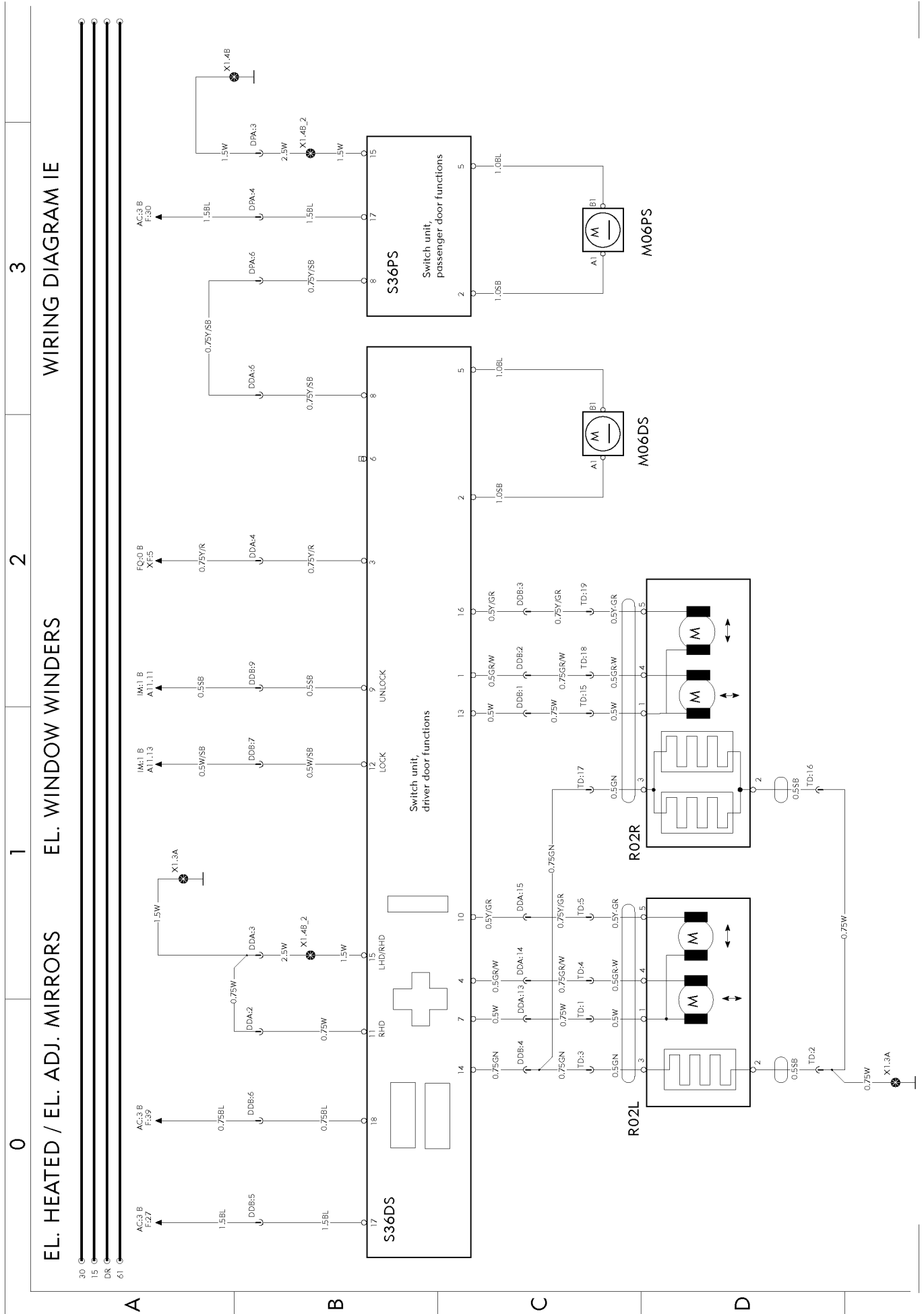


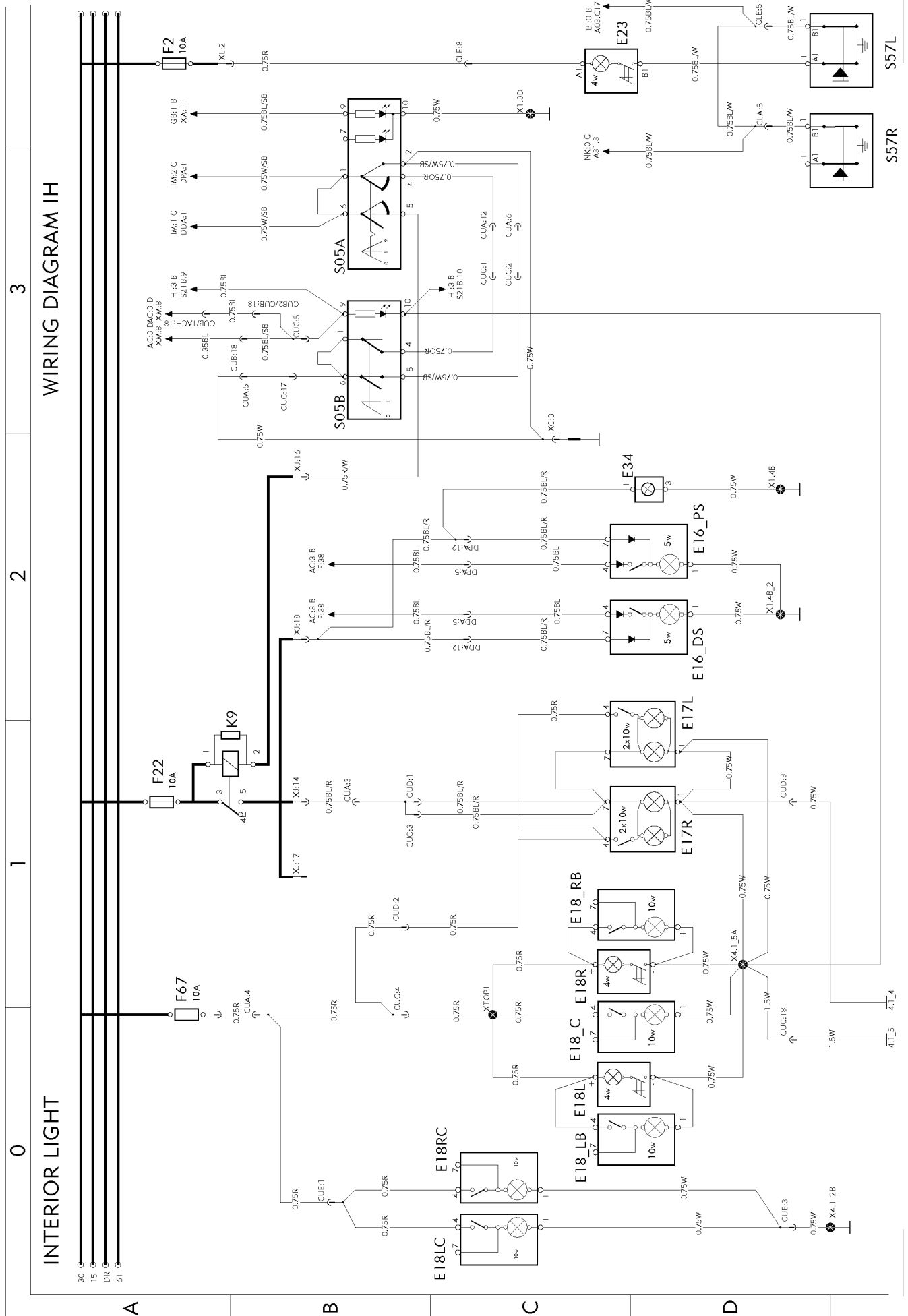


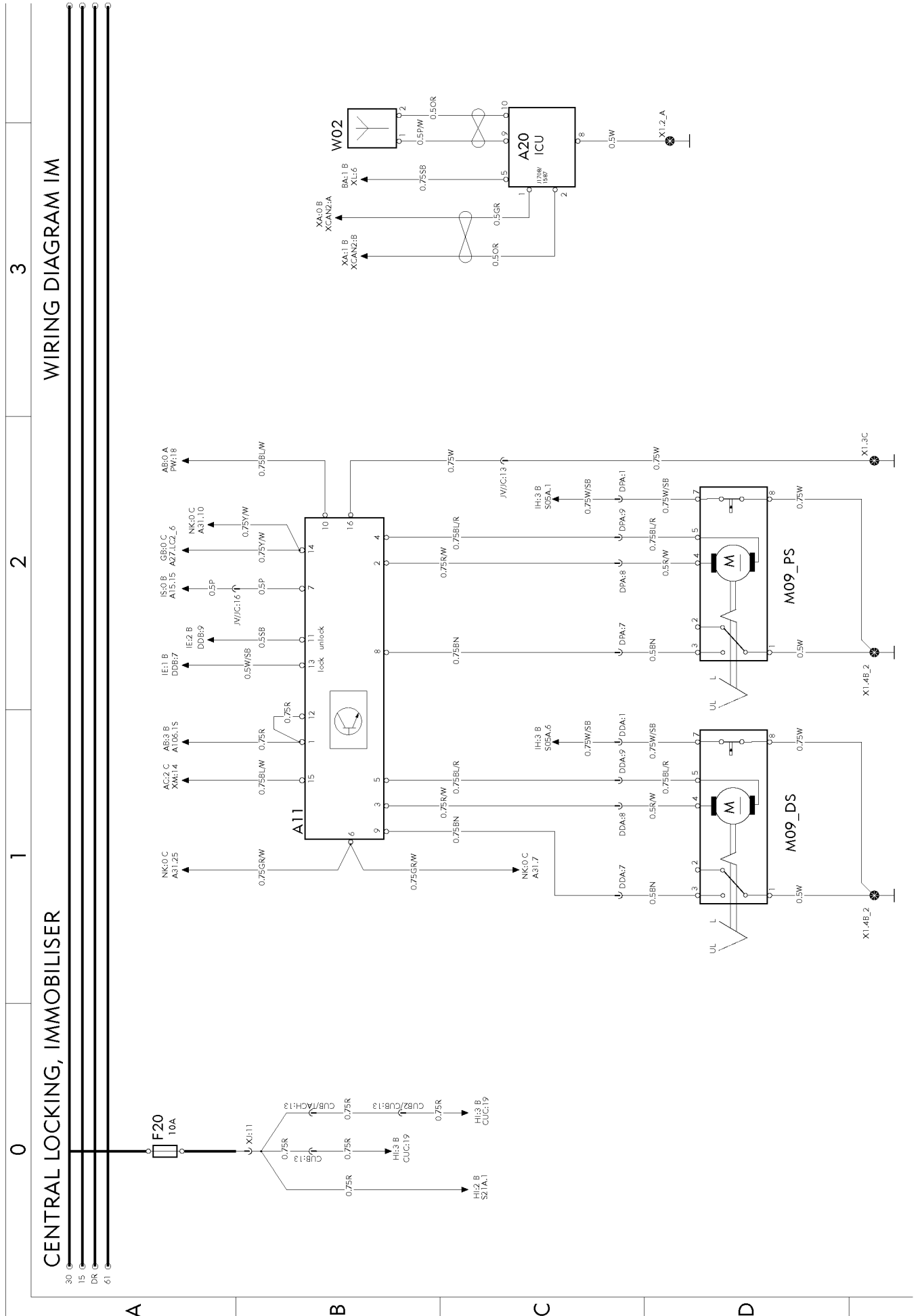


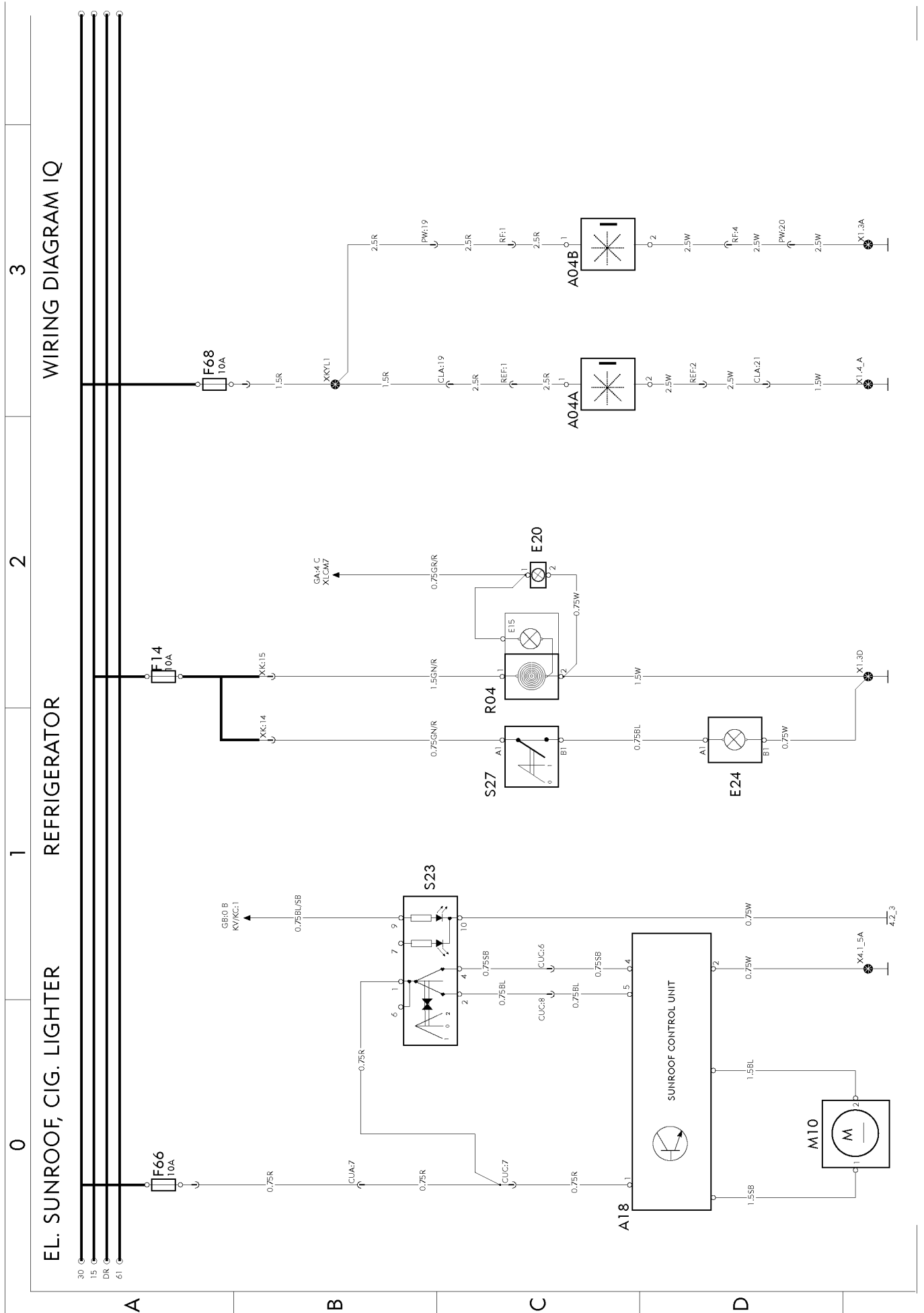


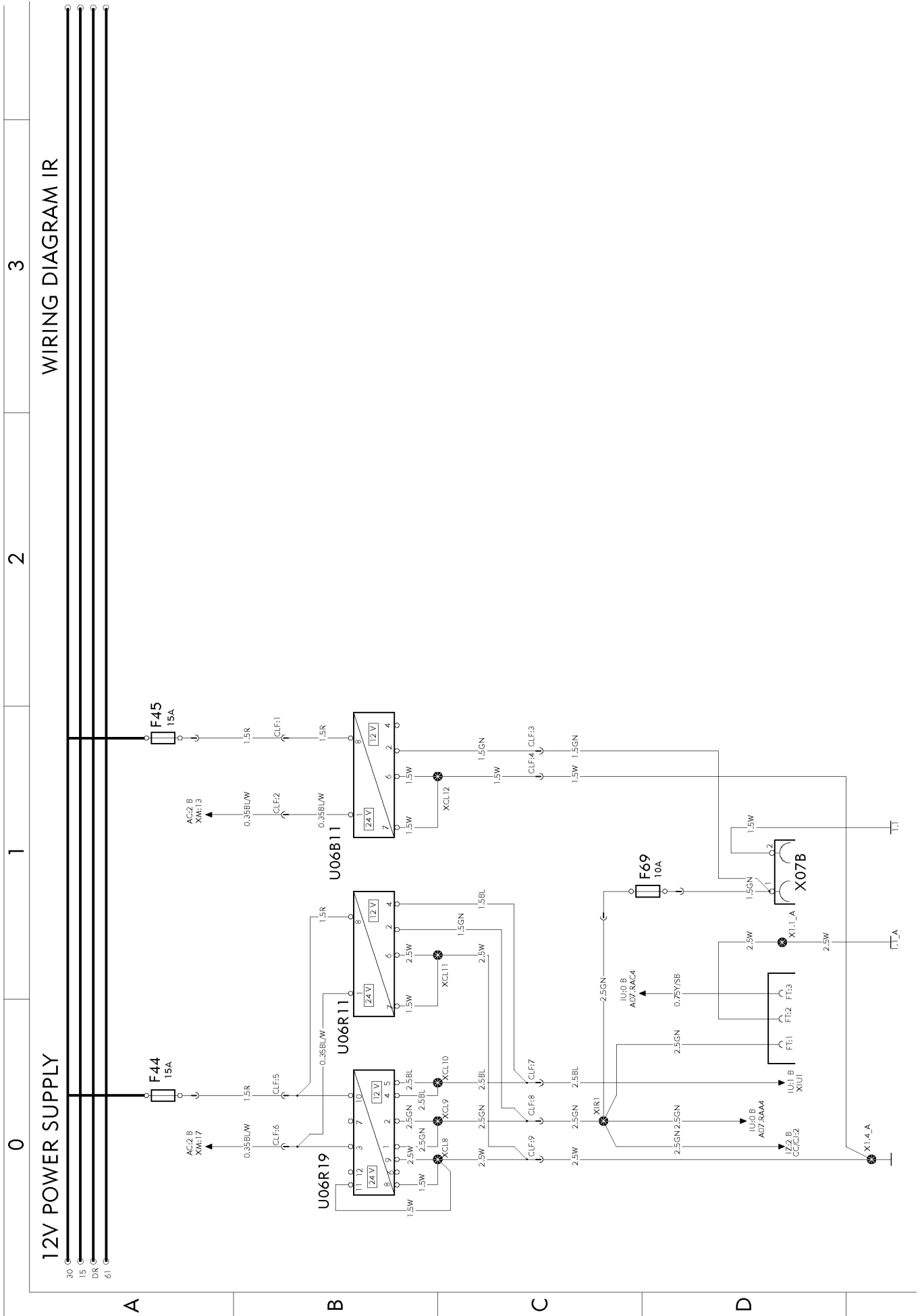


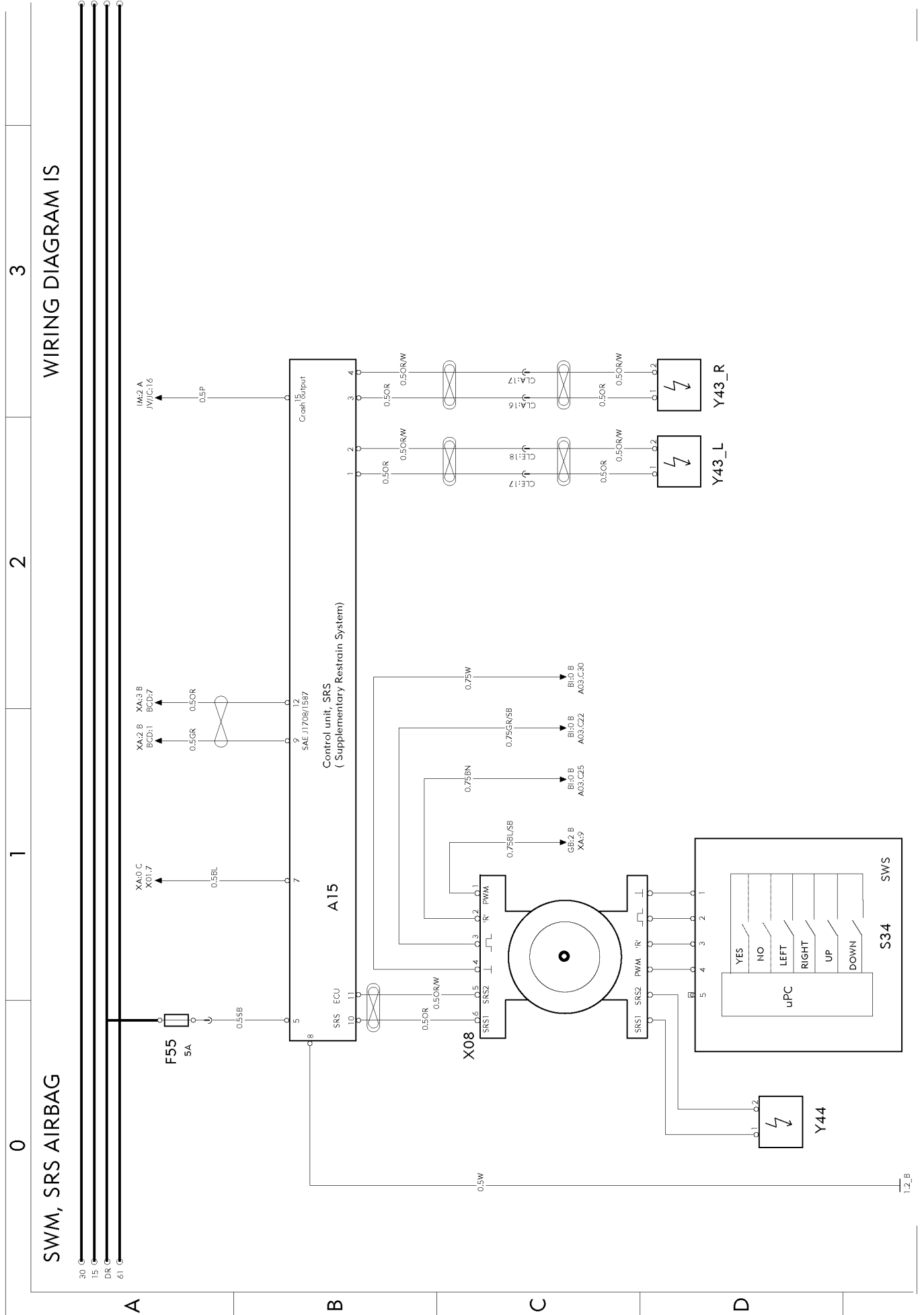


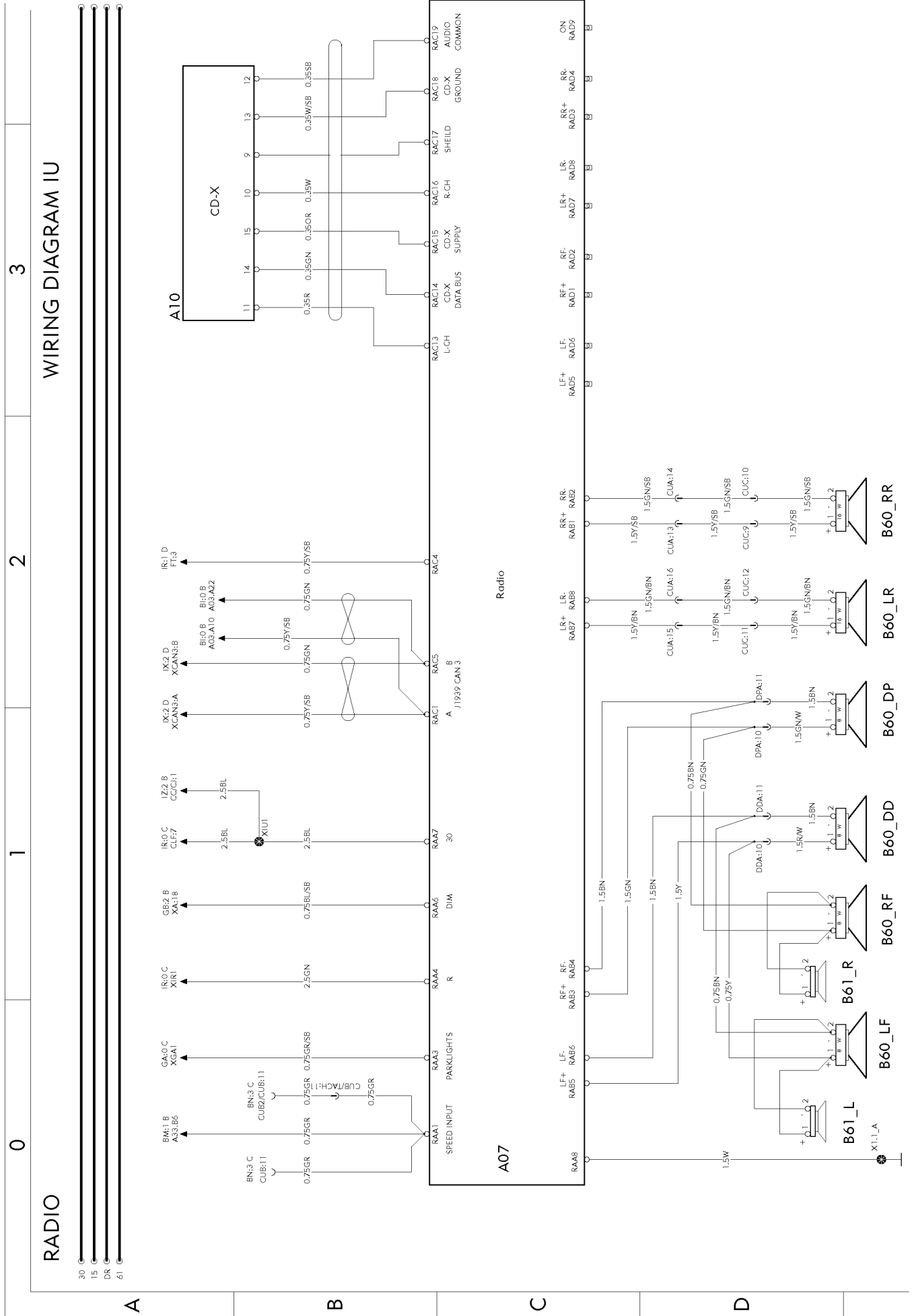


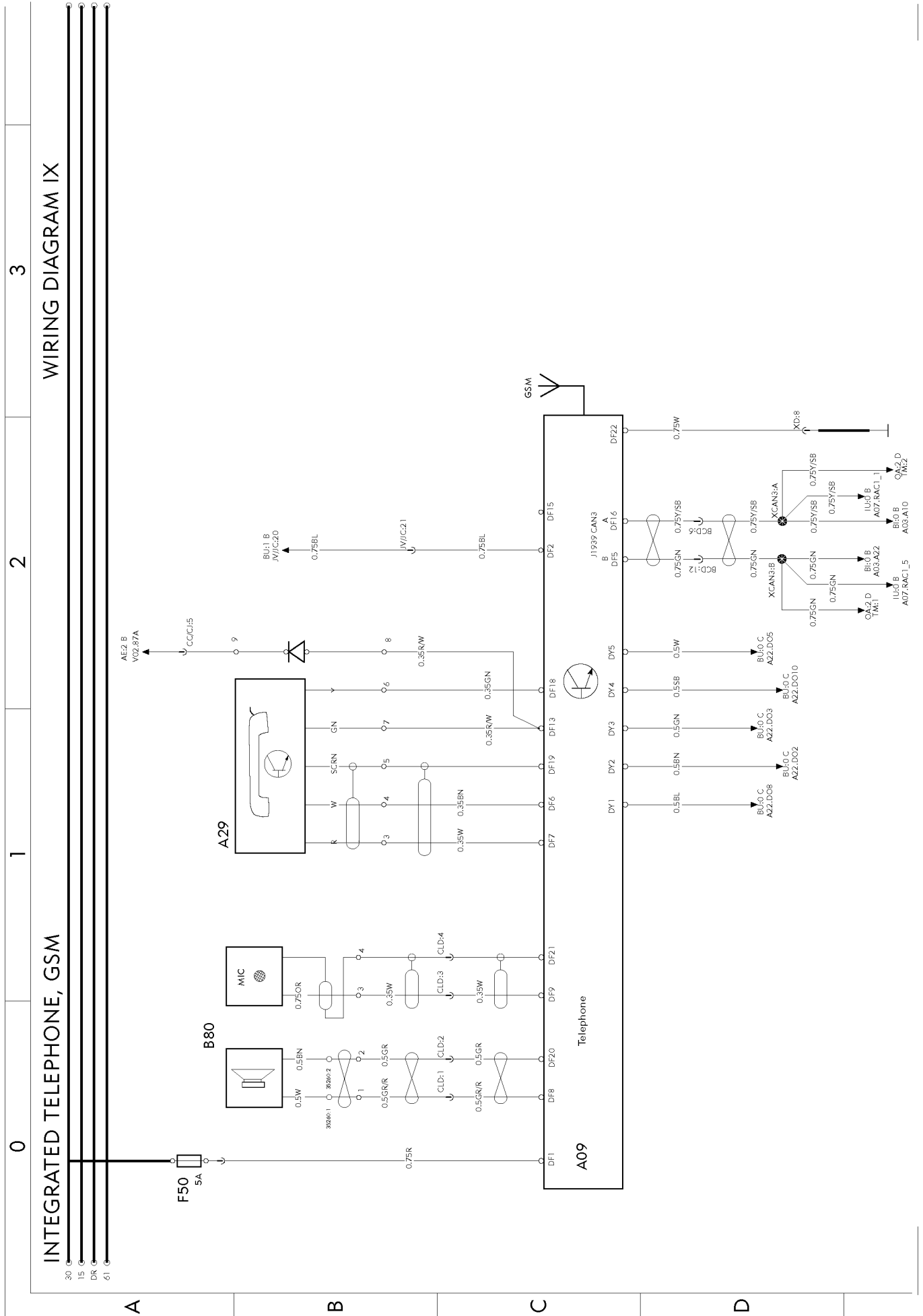


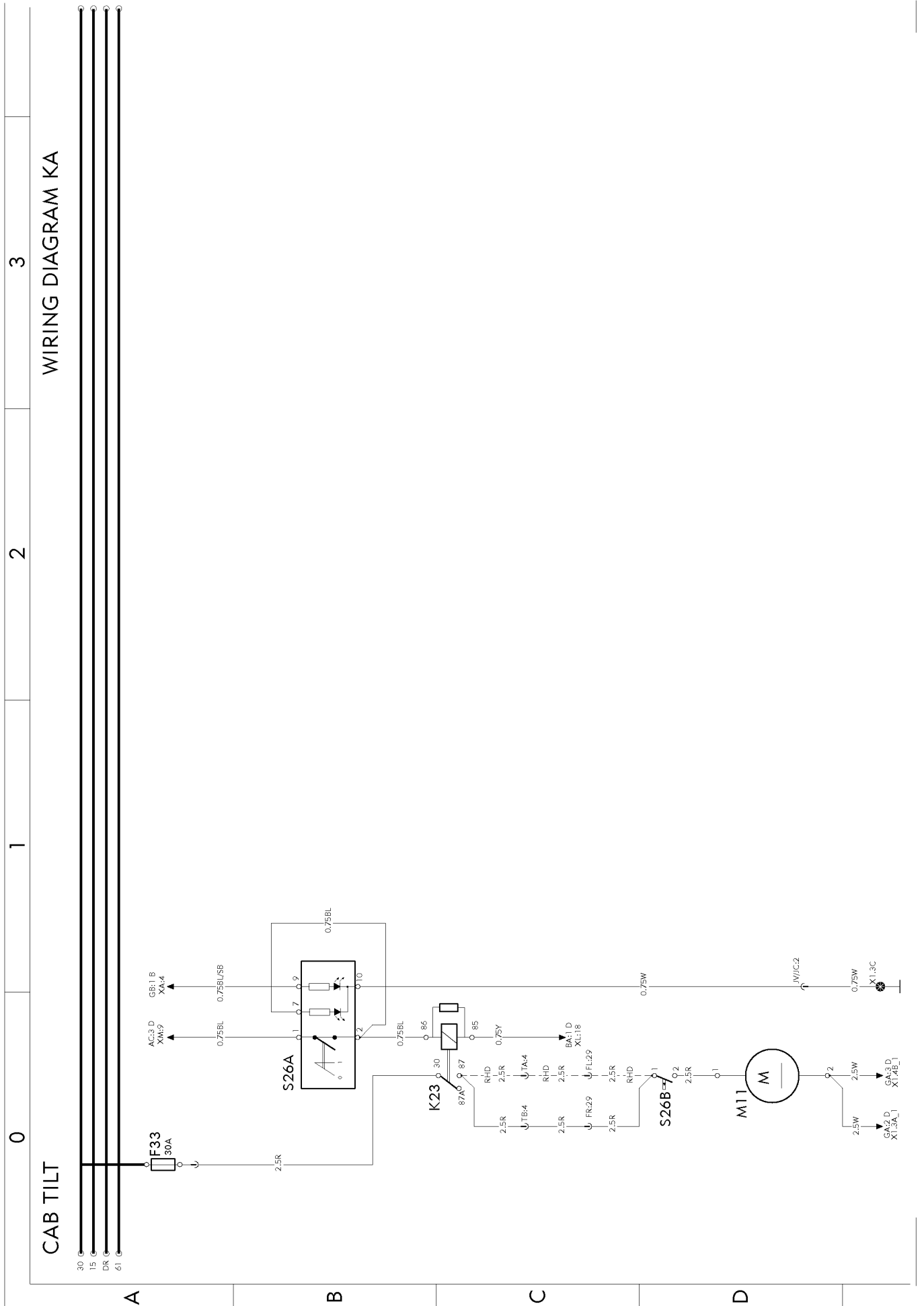


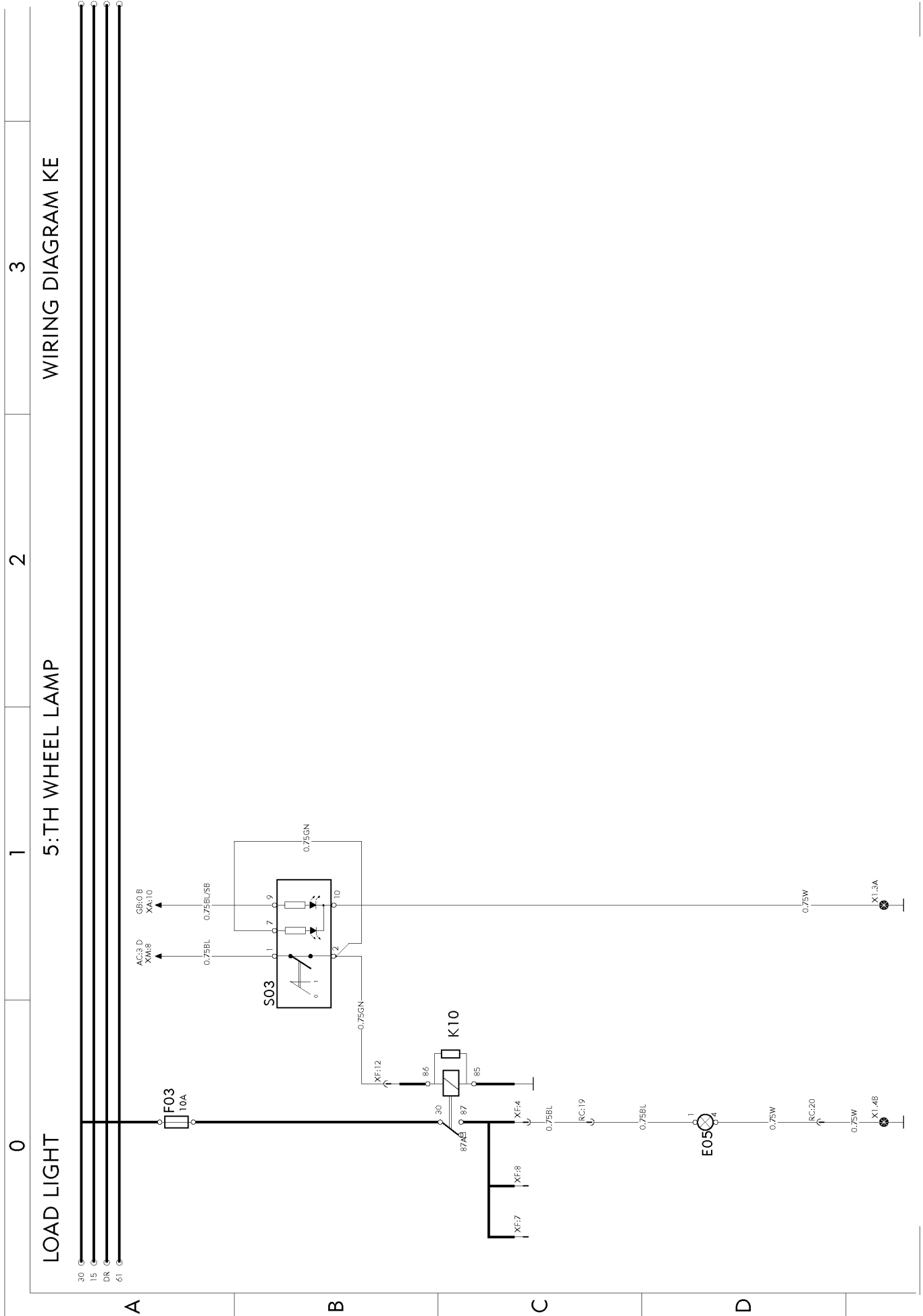


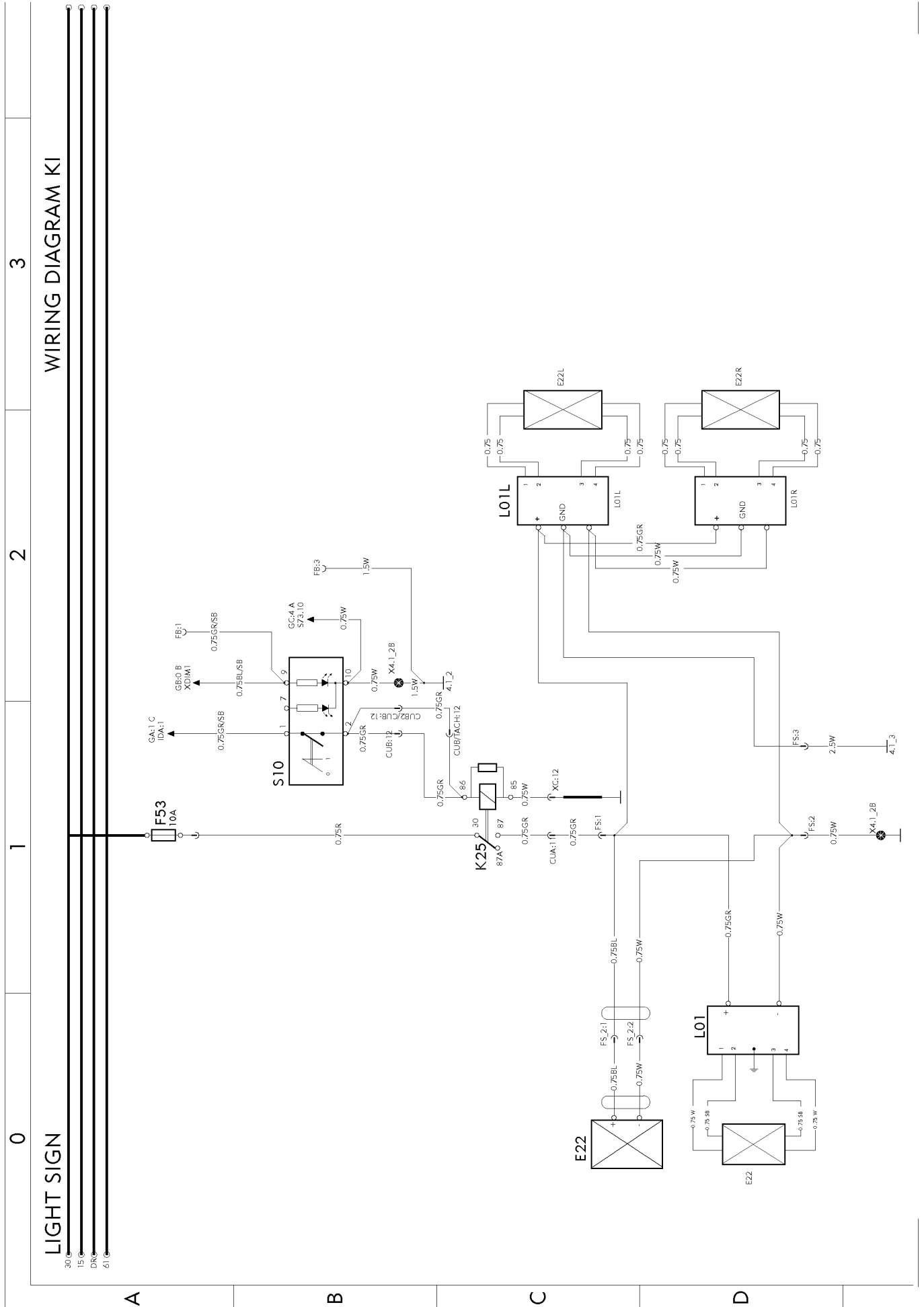


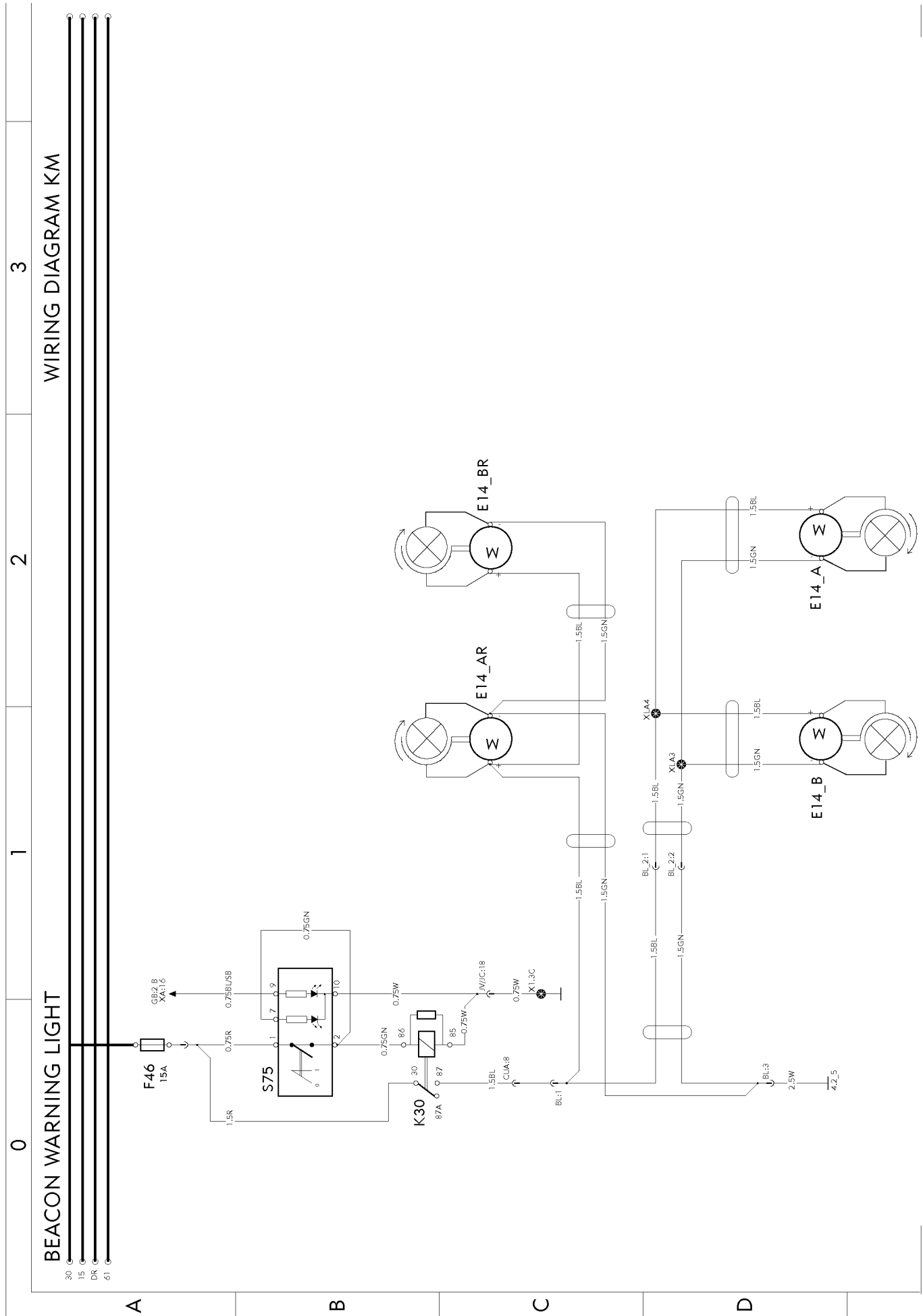


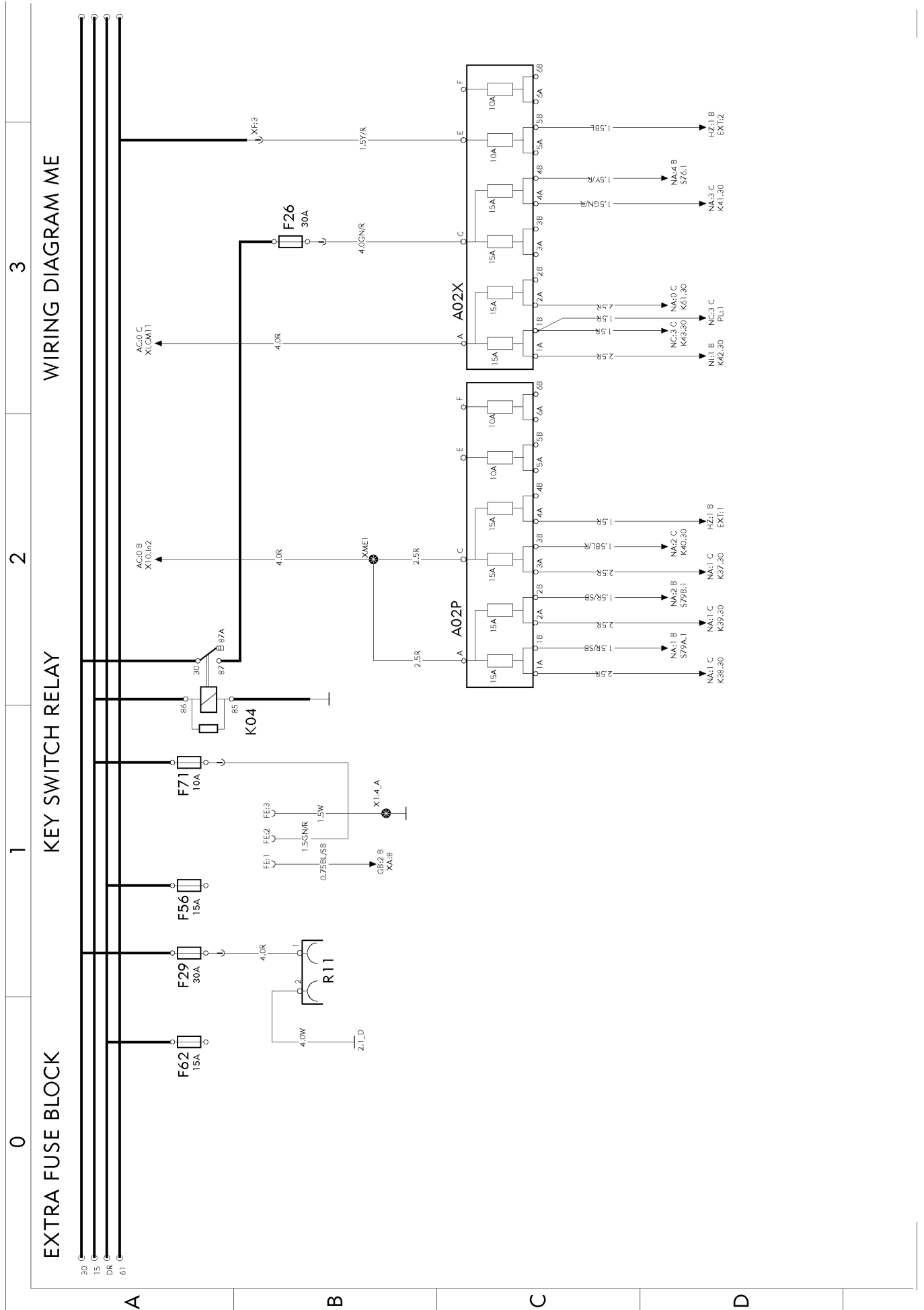


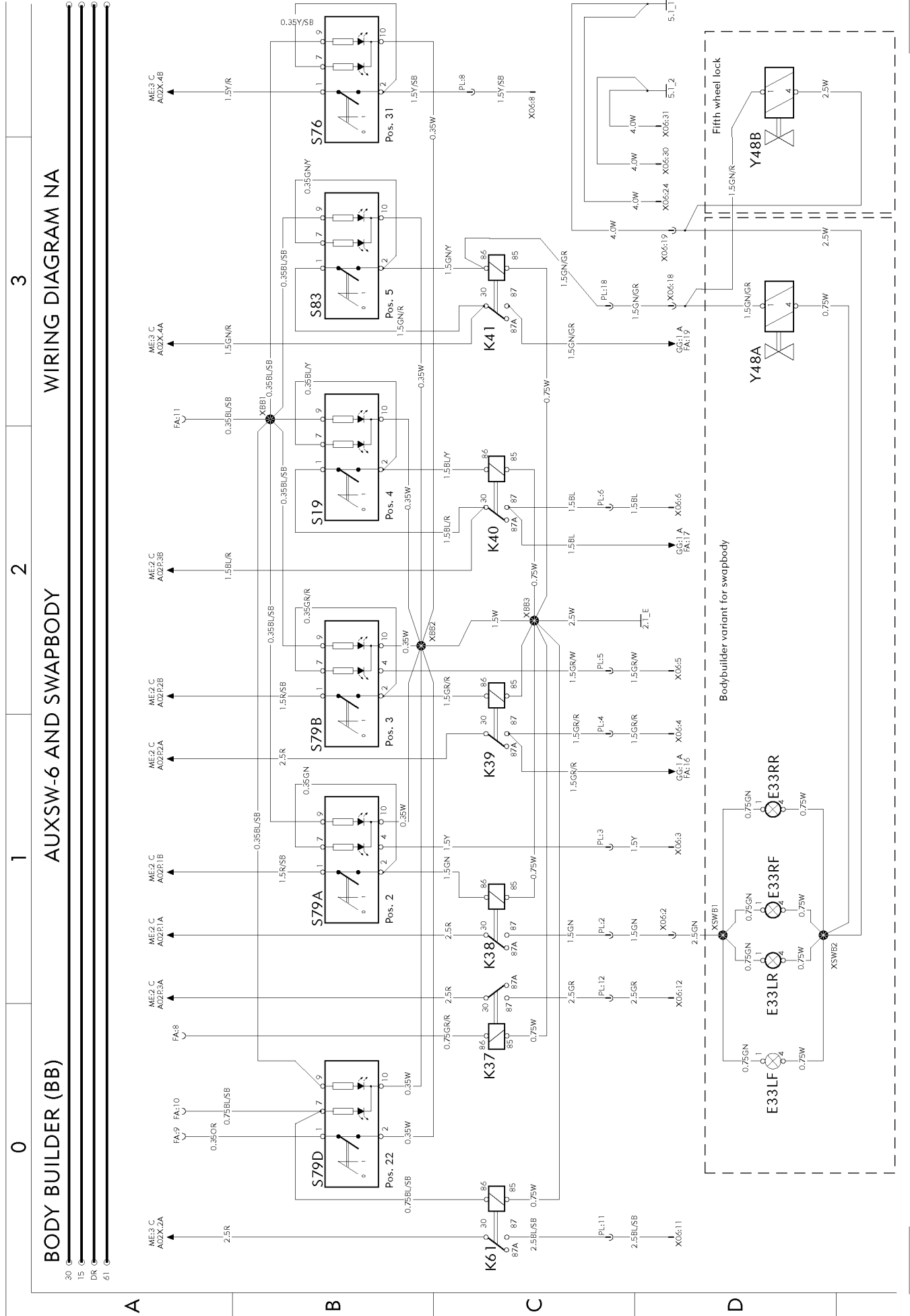


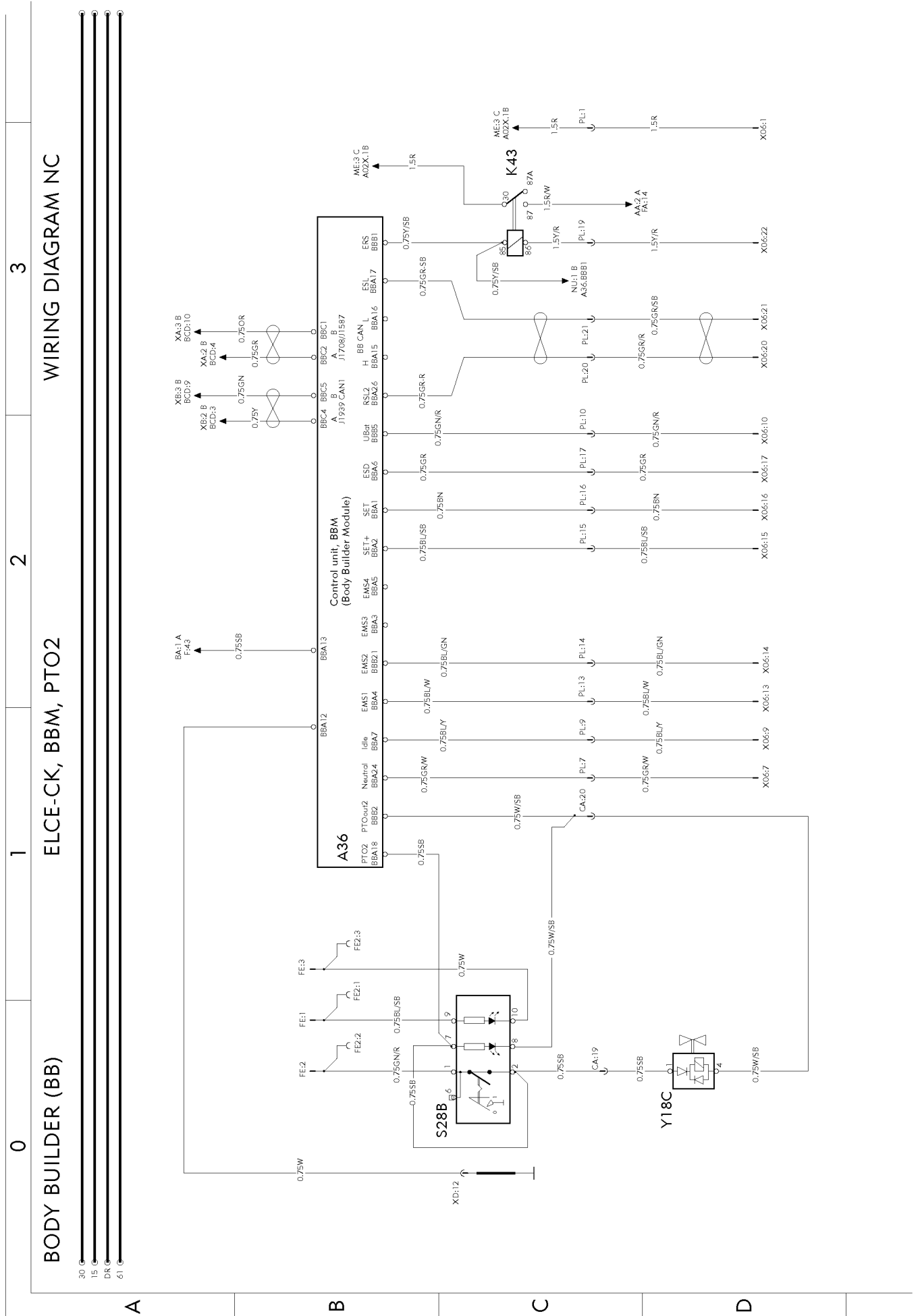


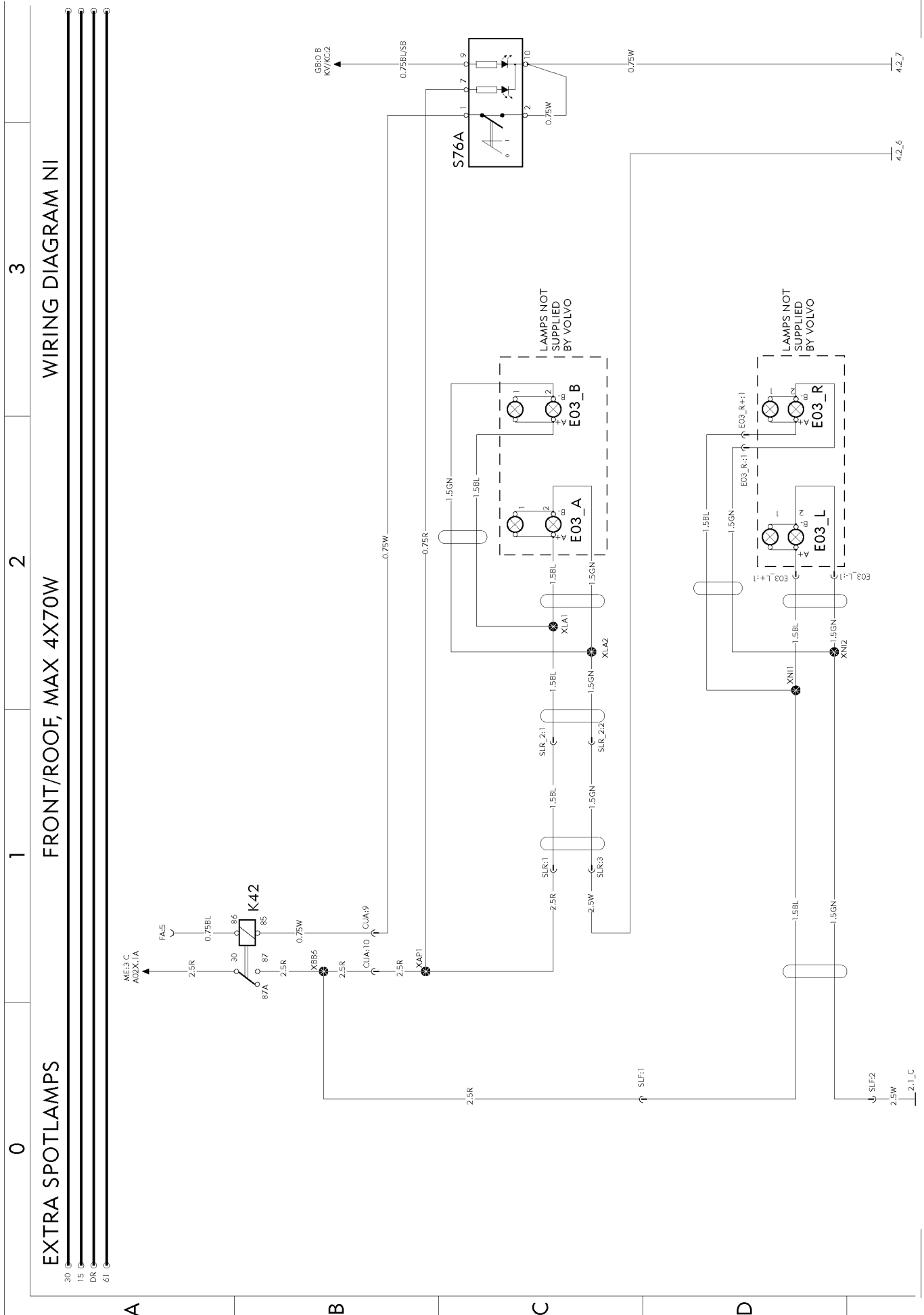


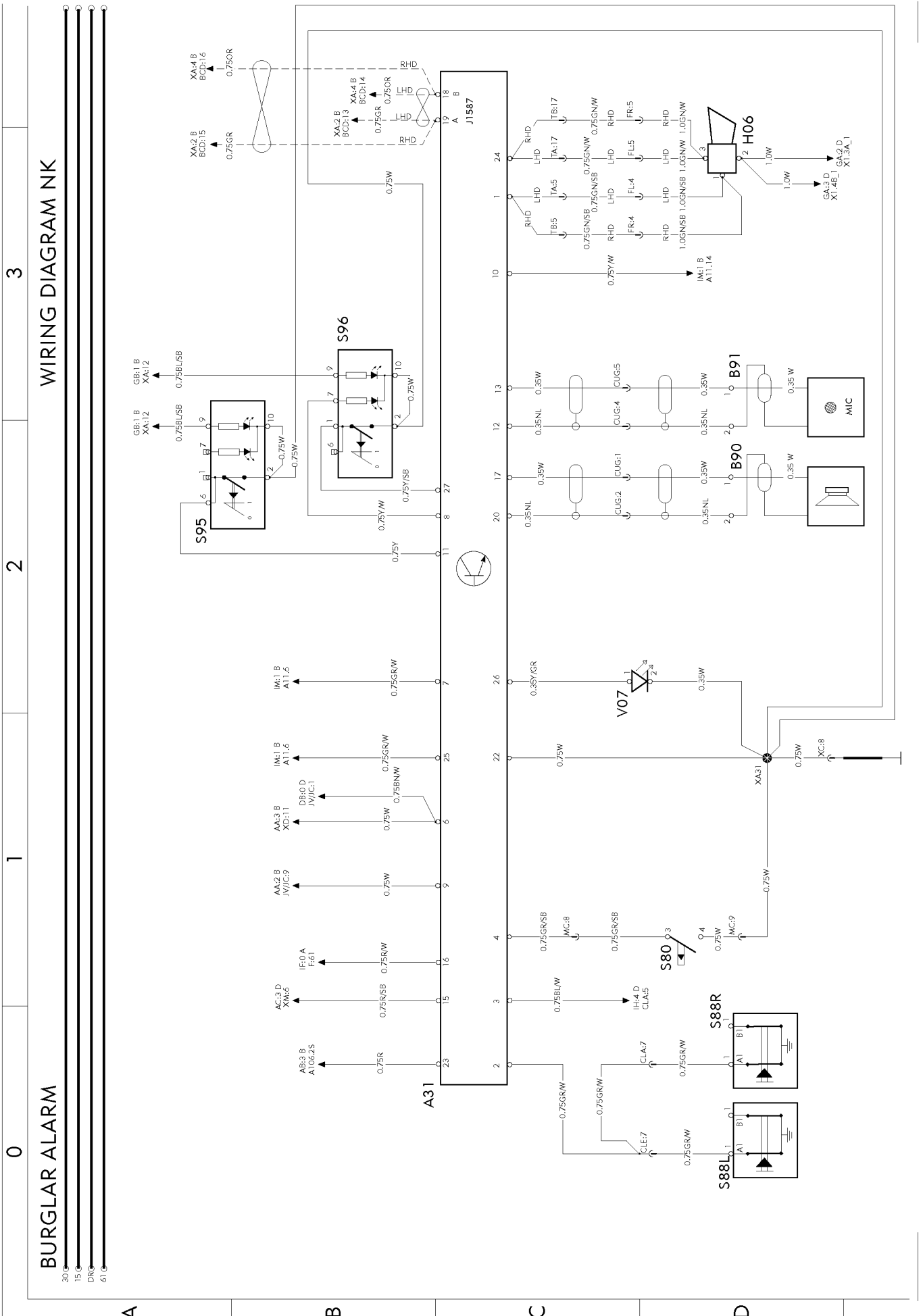


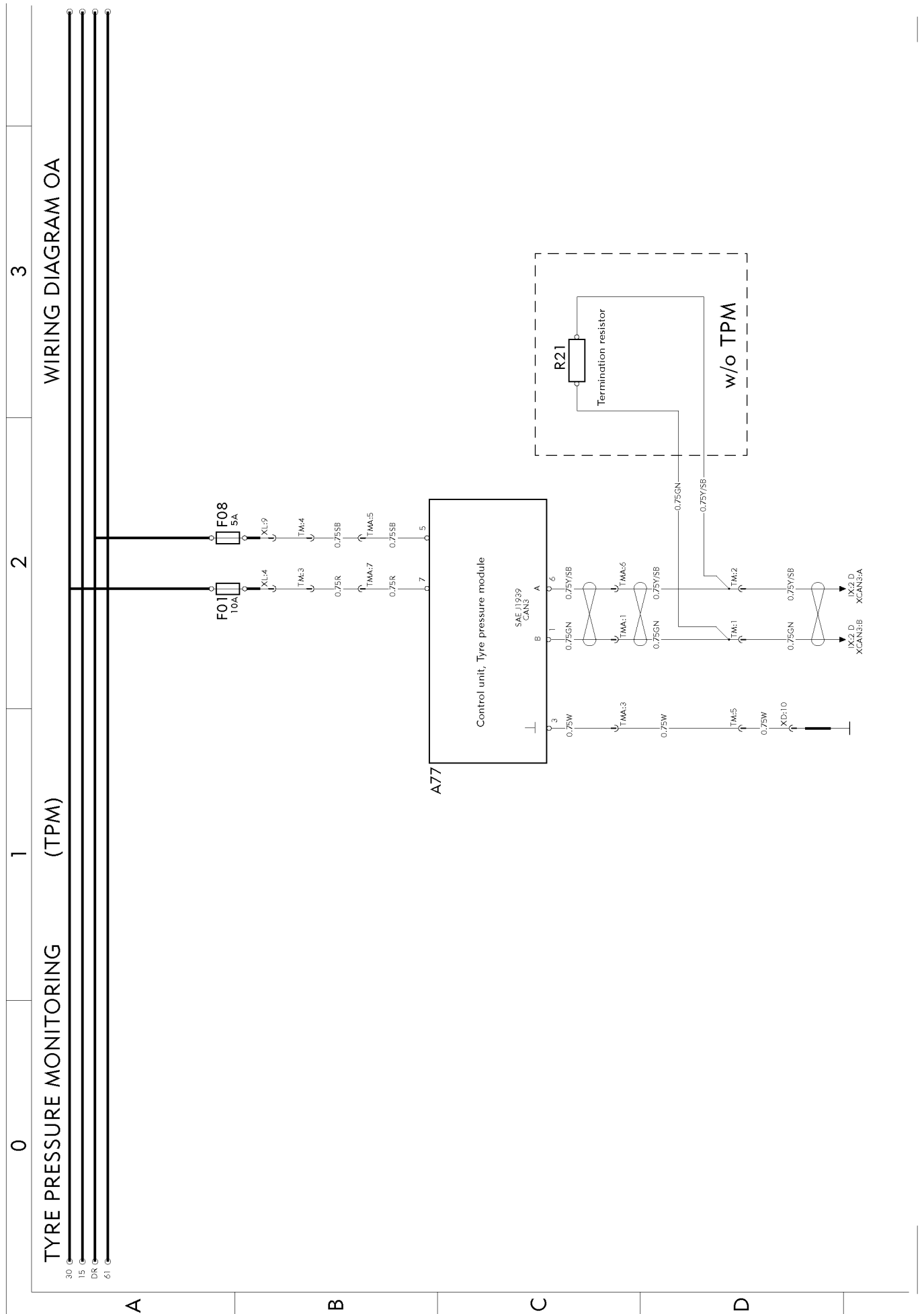


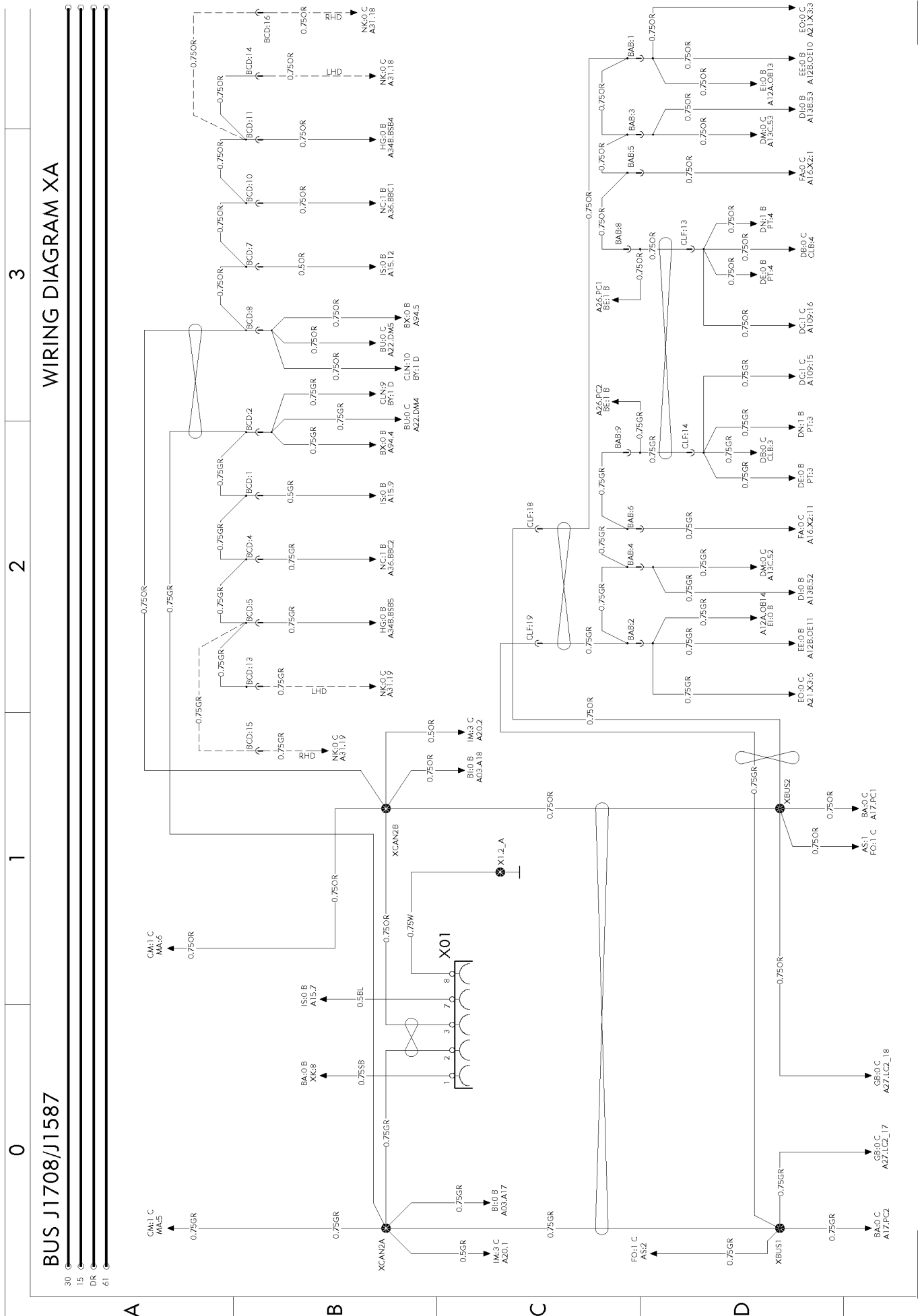


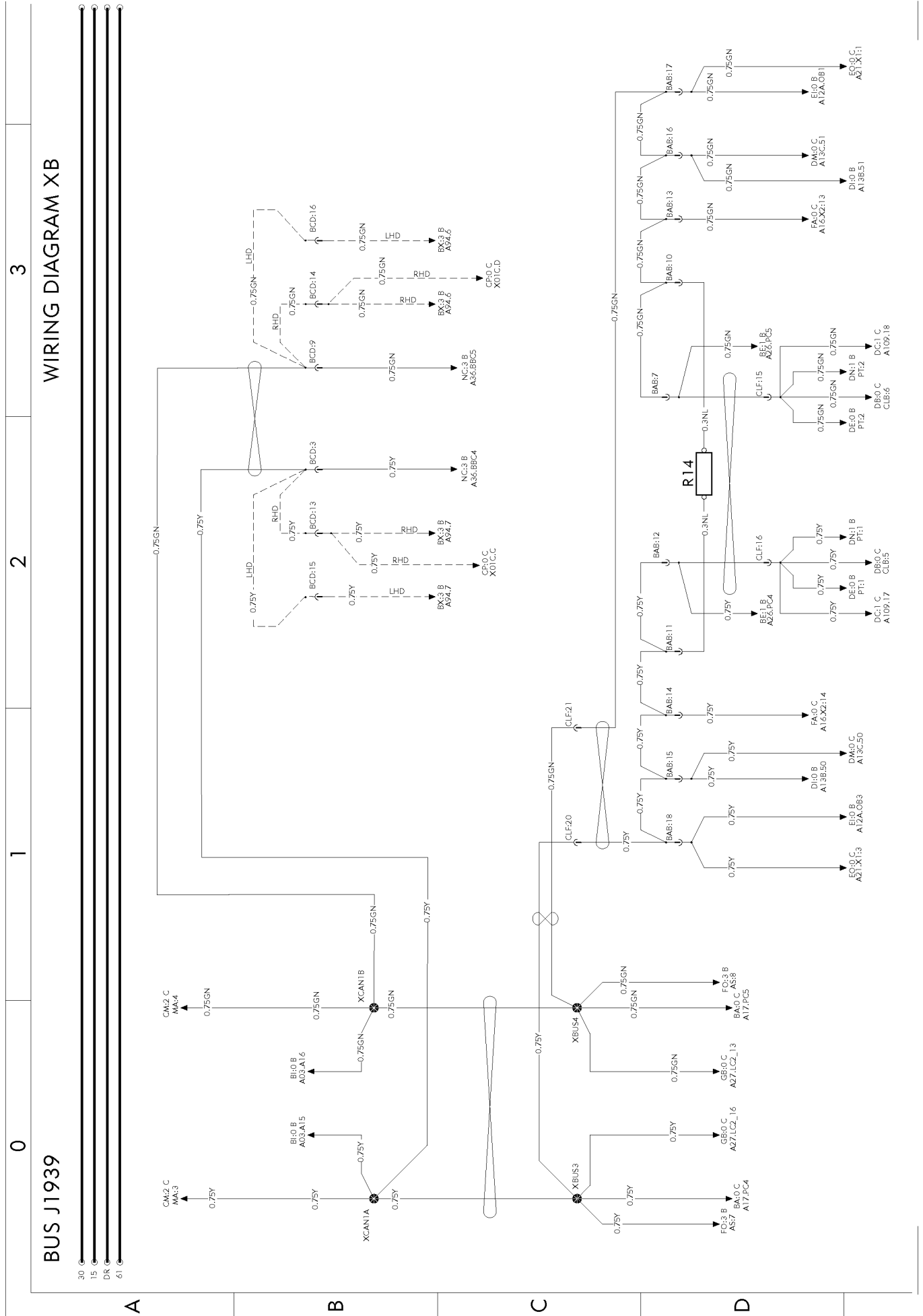








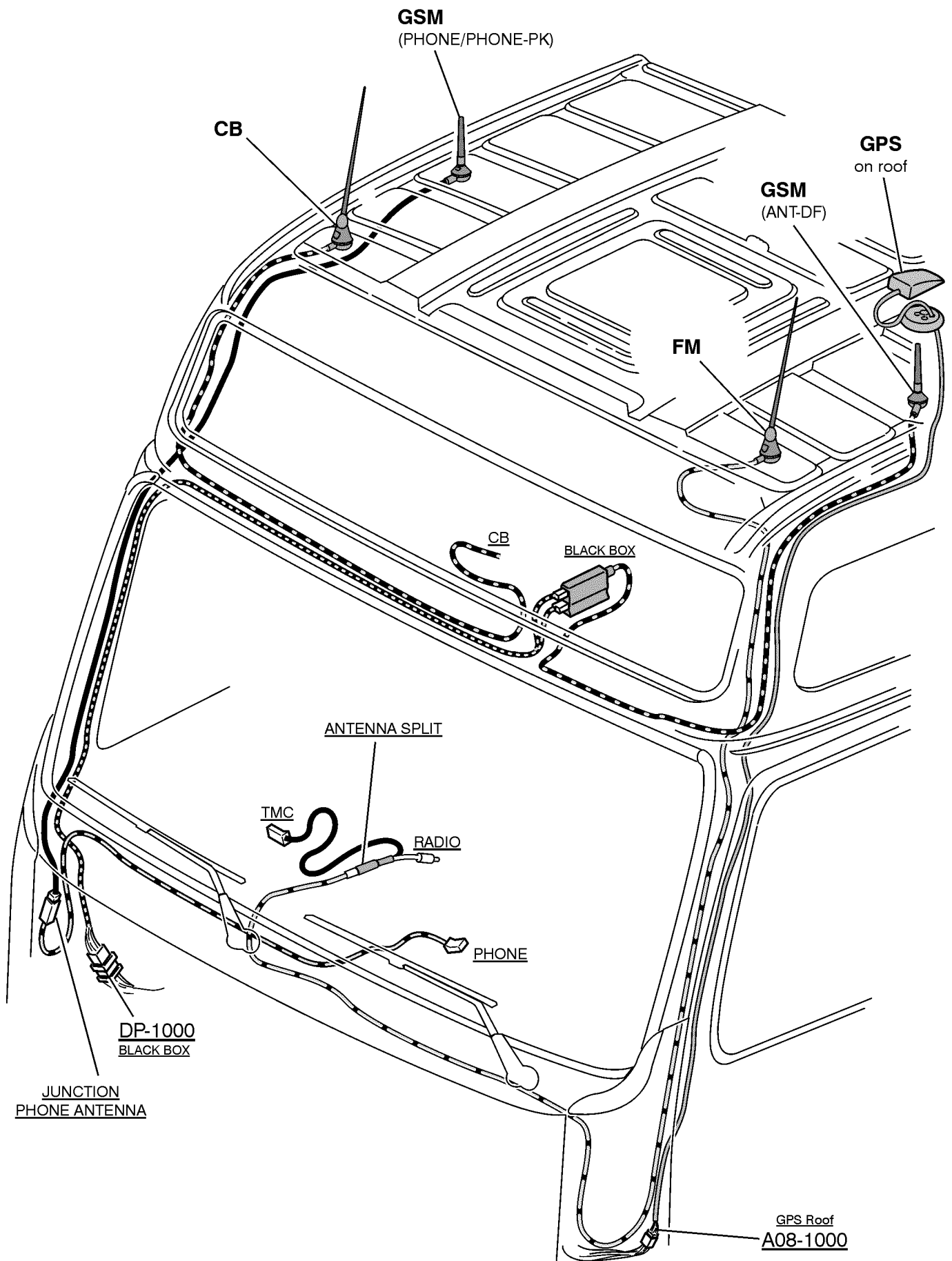


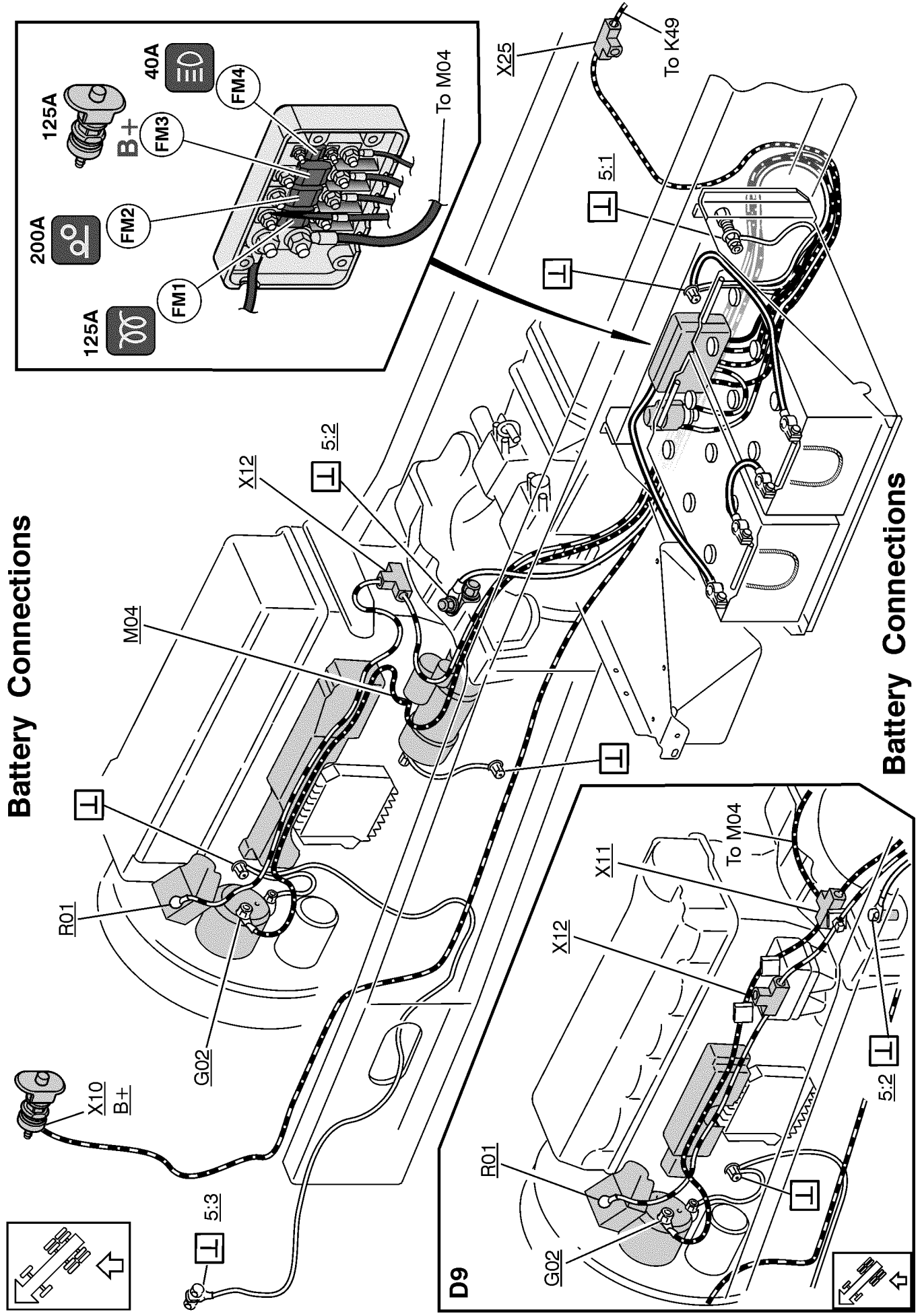


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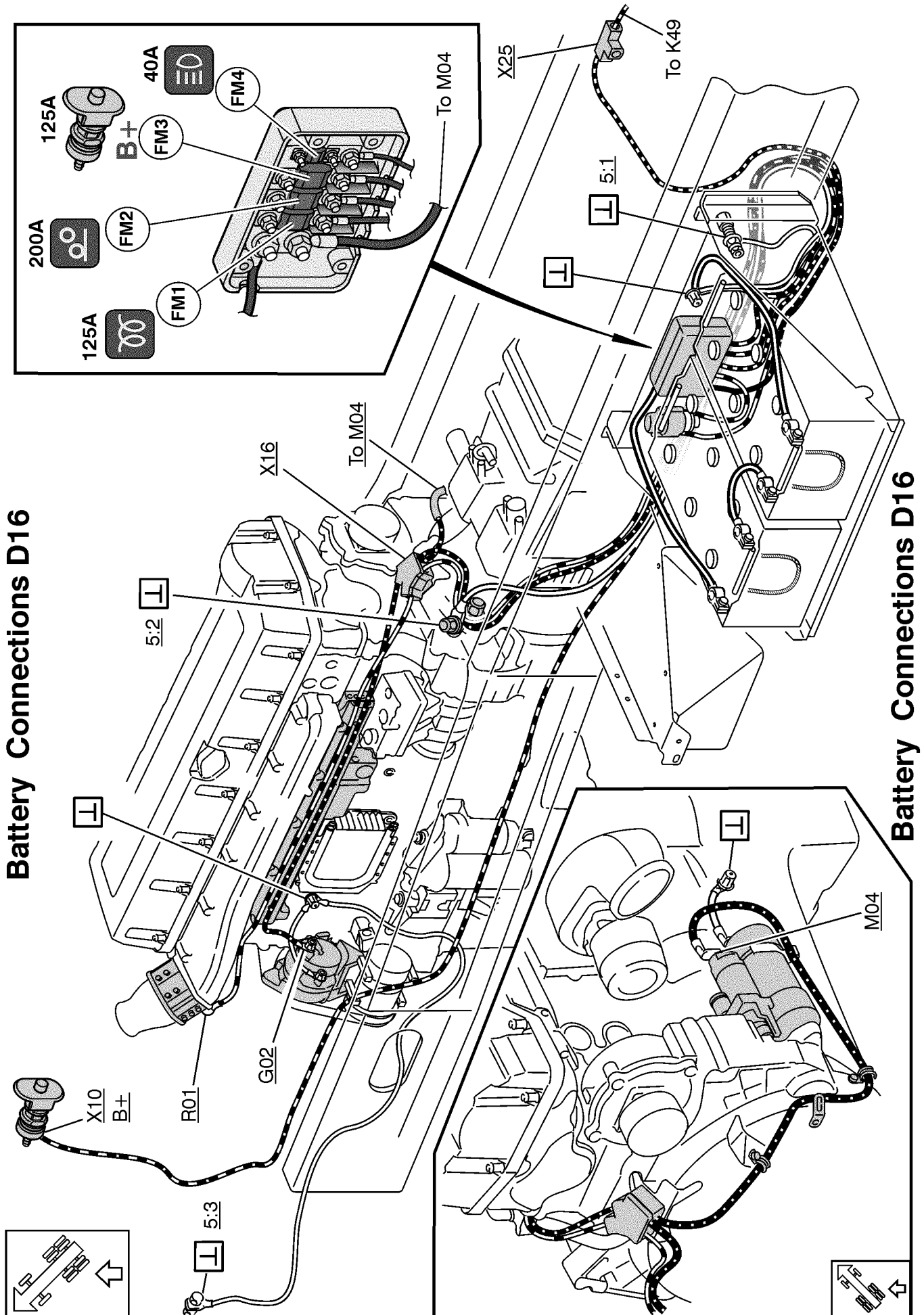
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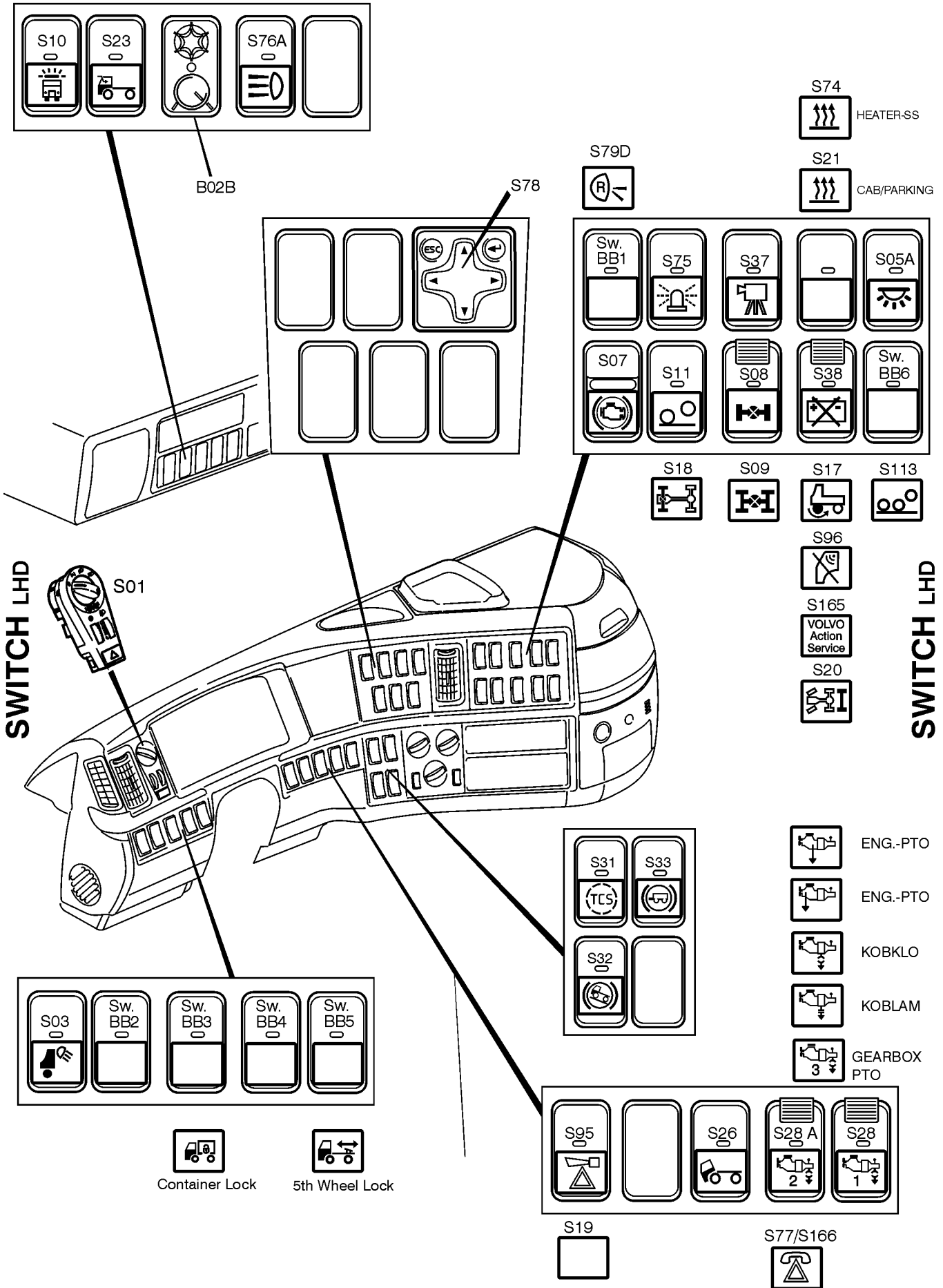


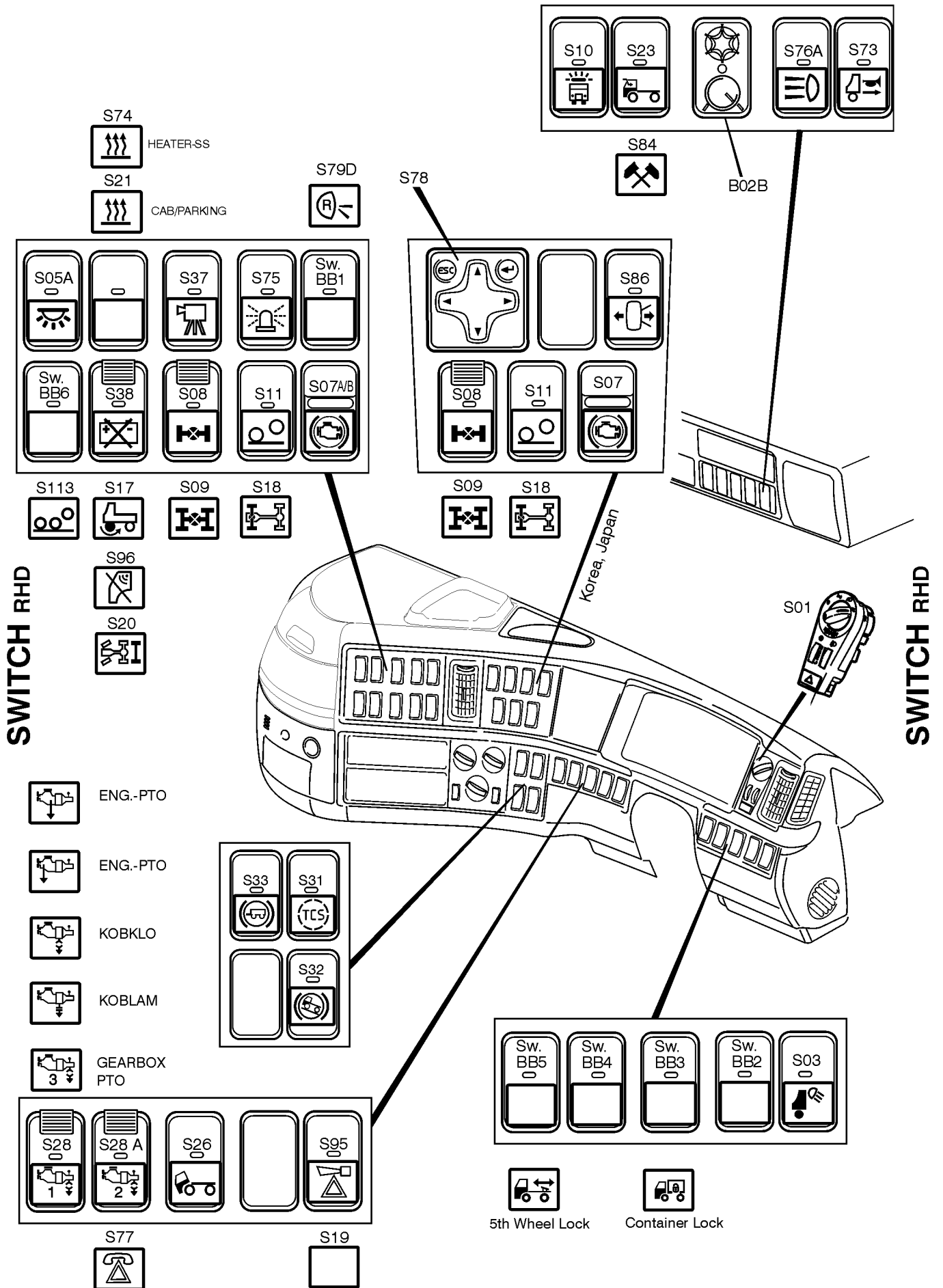


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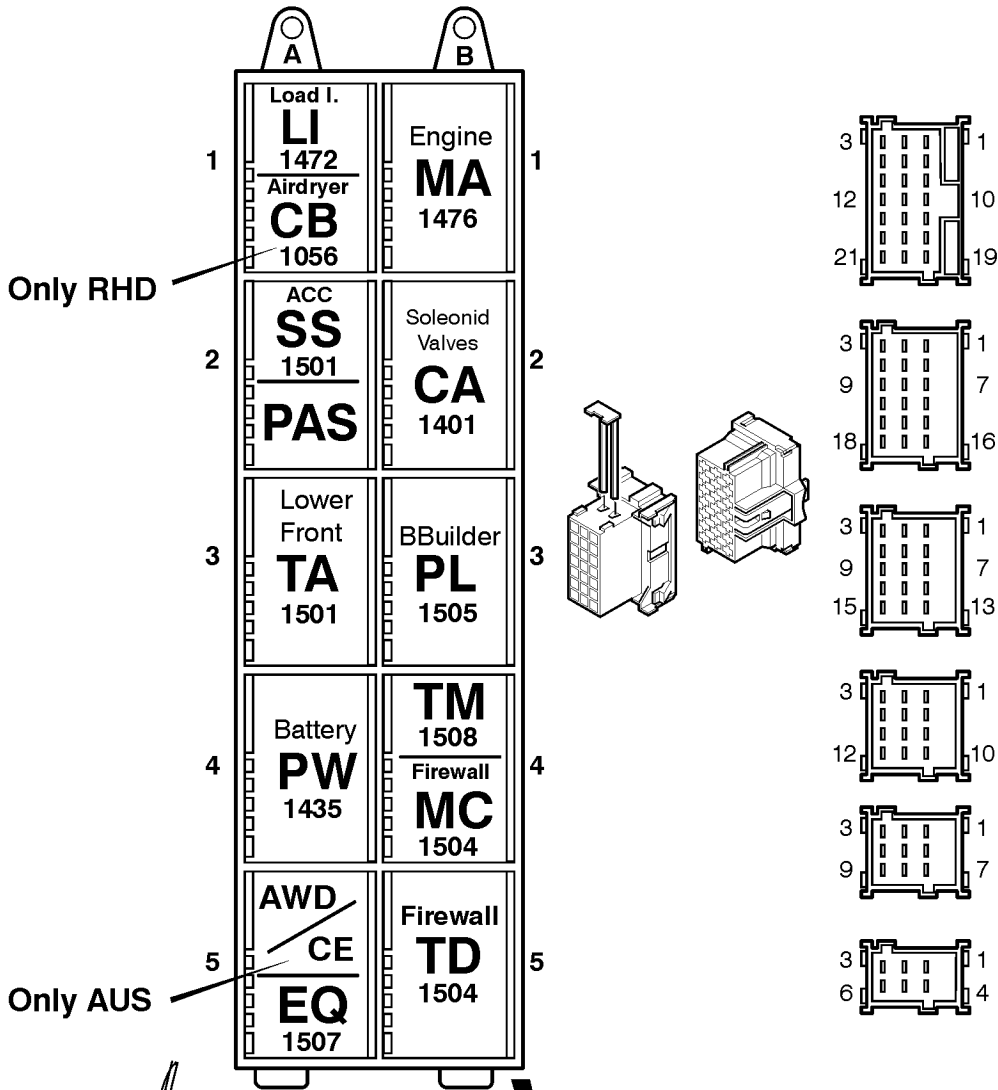


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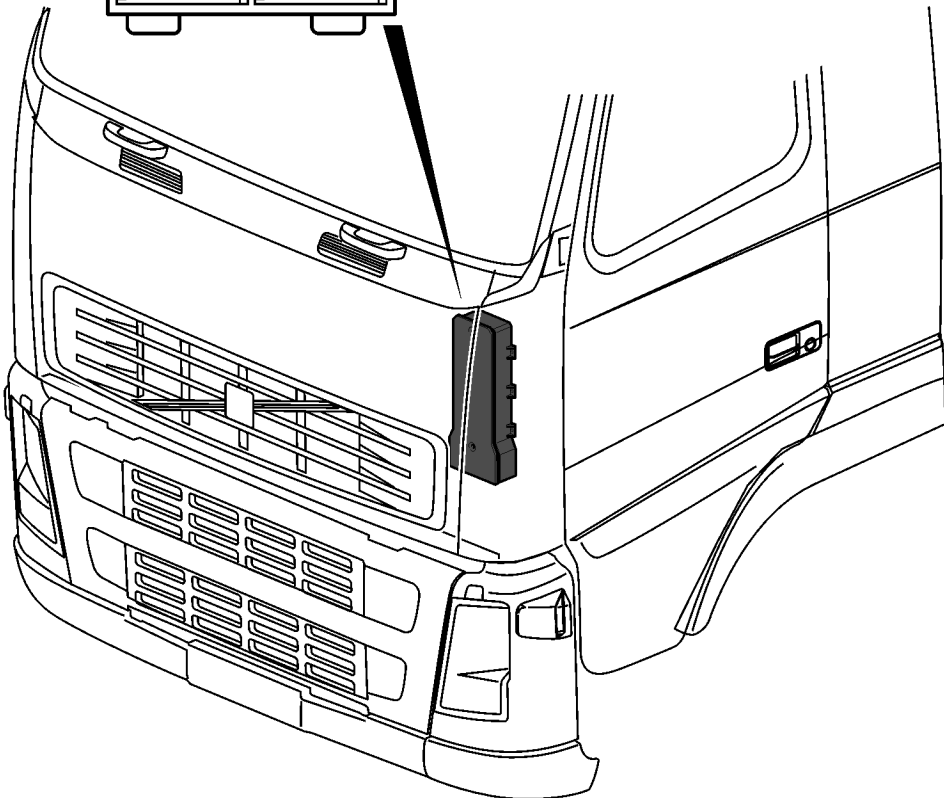




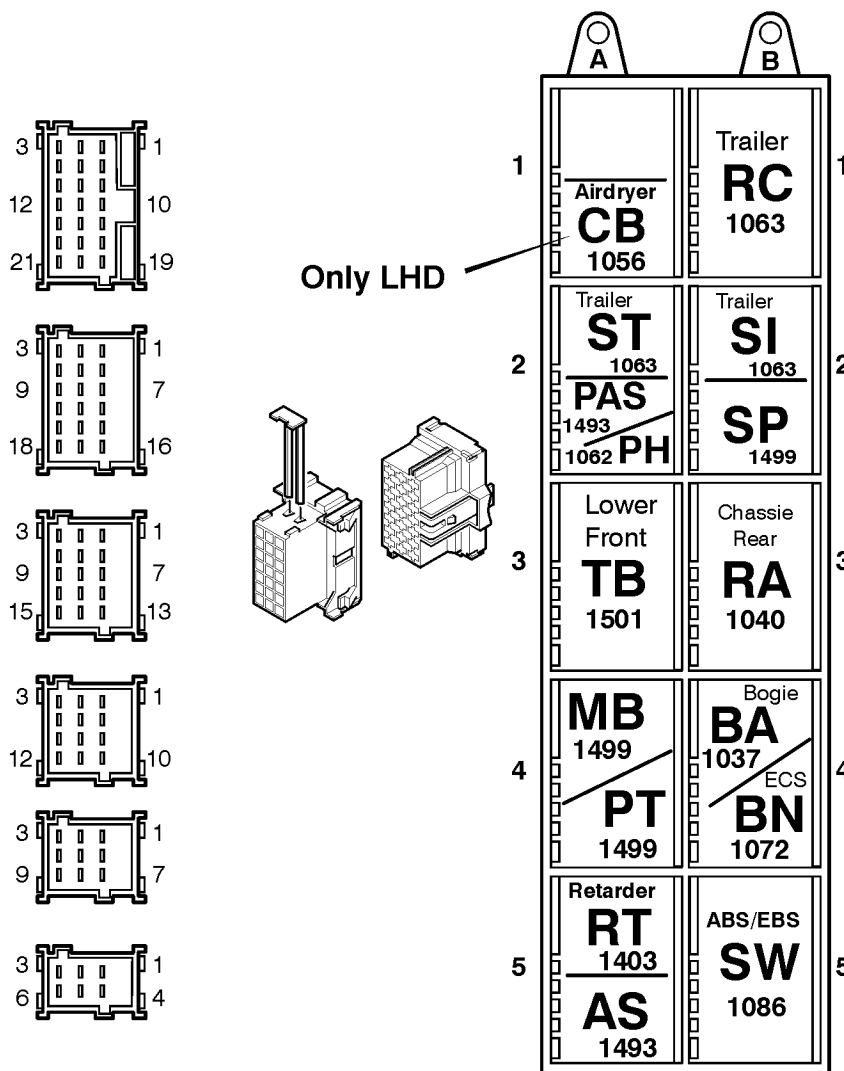
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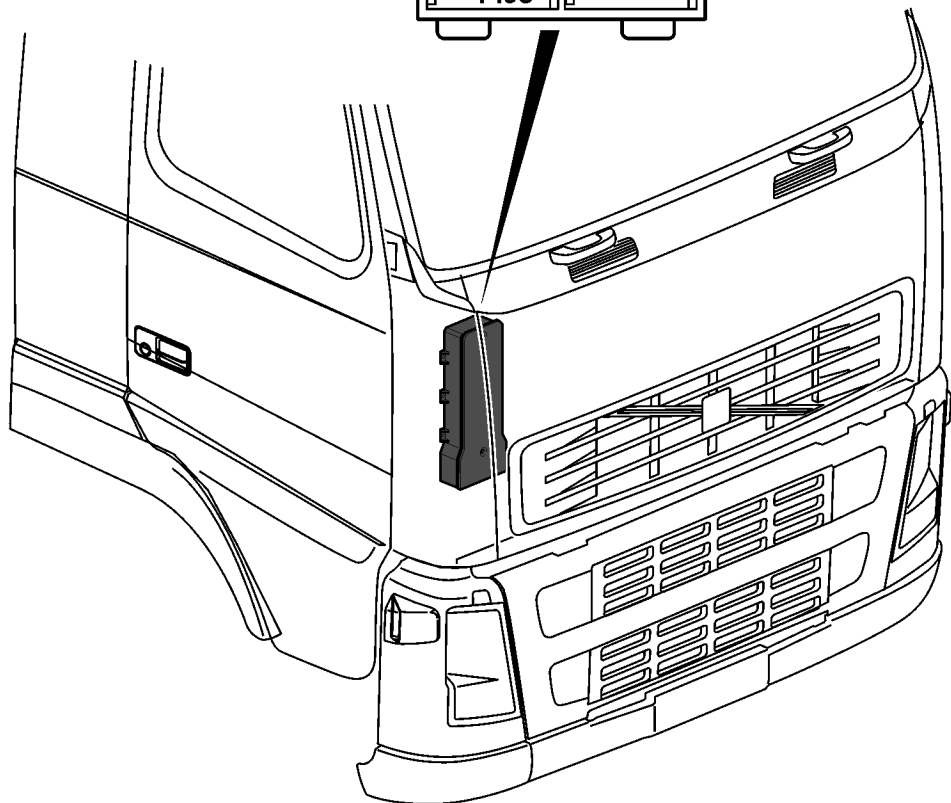
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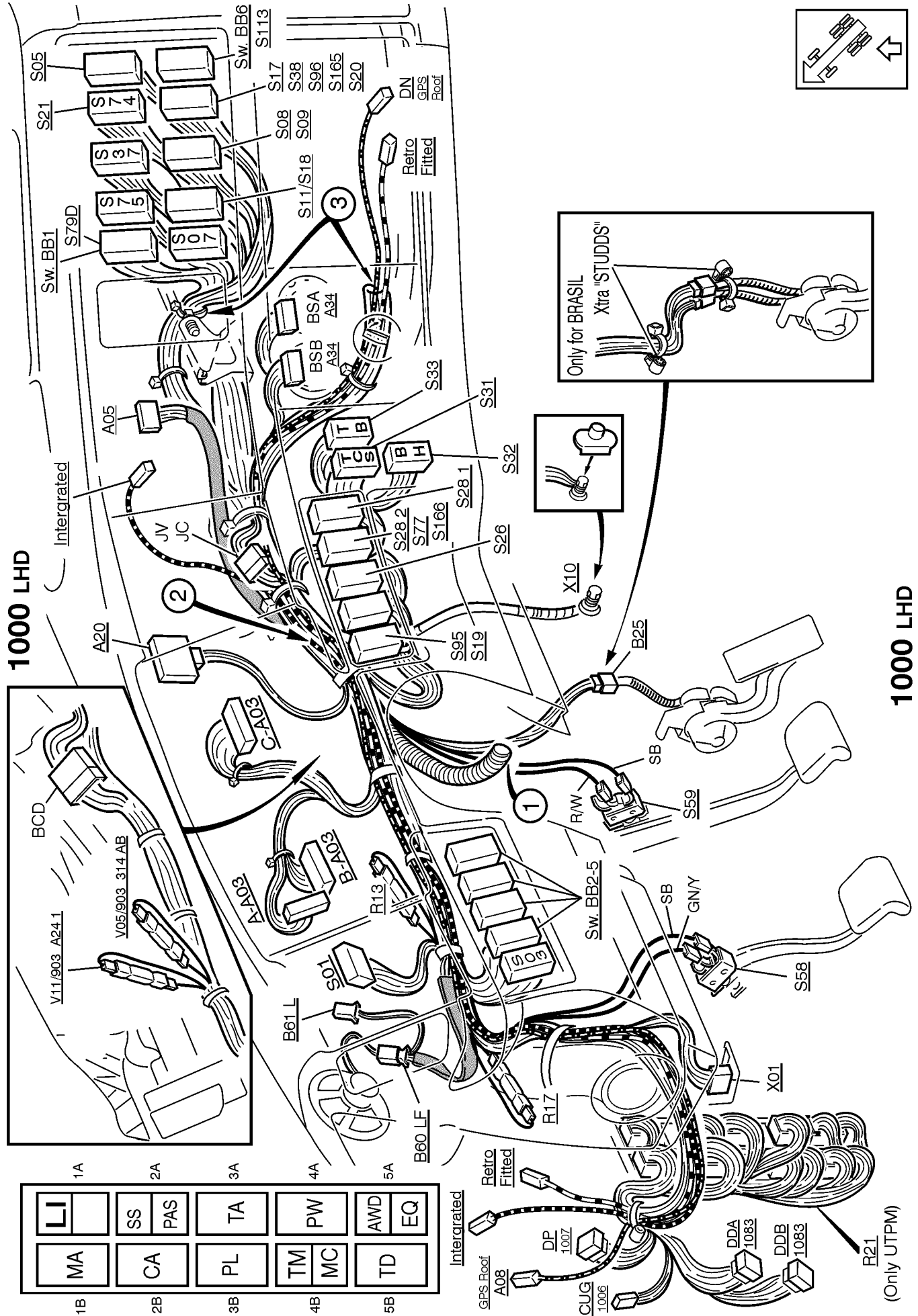


CAB Inlets RHS



CAB Inlets RHS

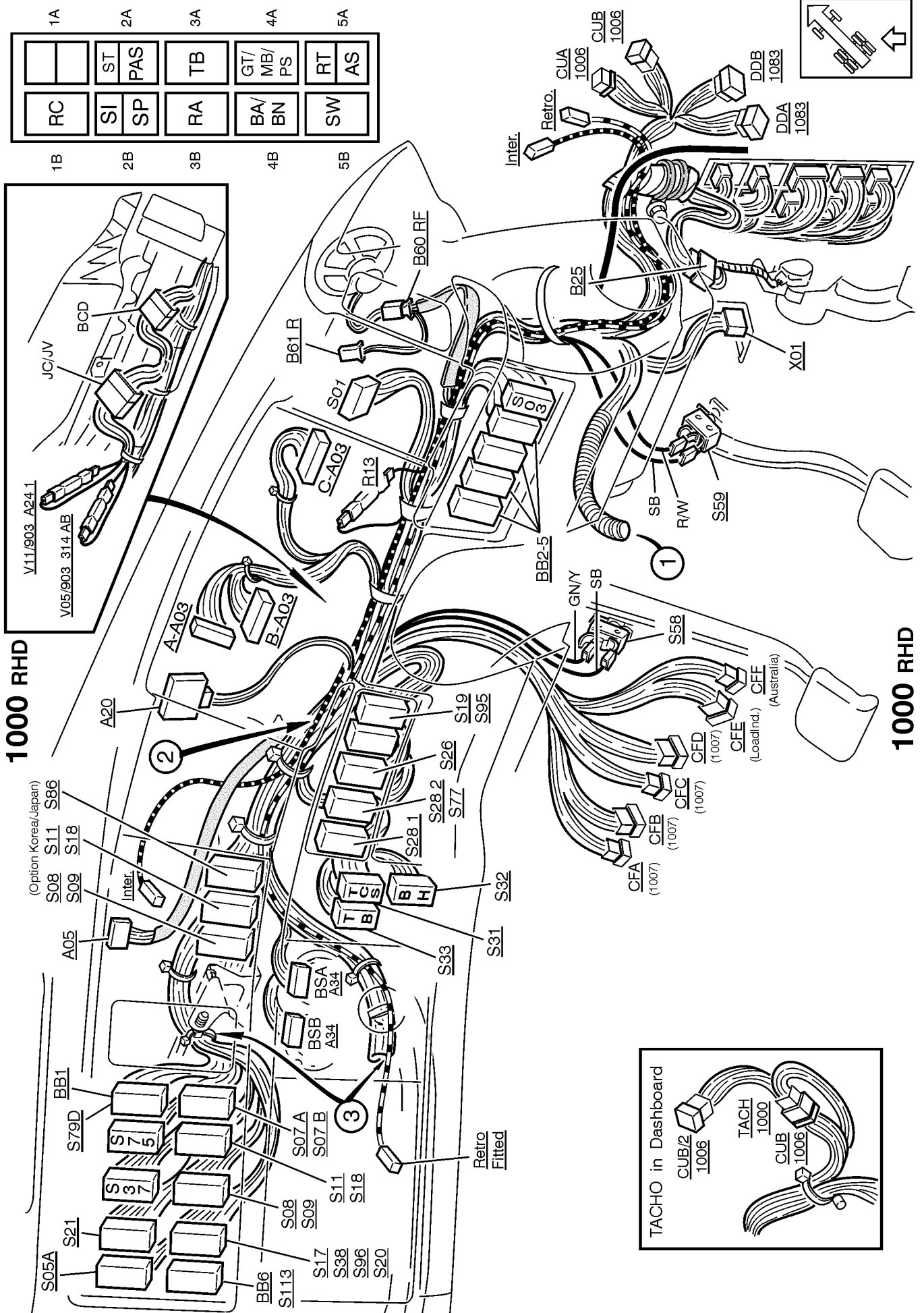


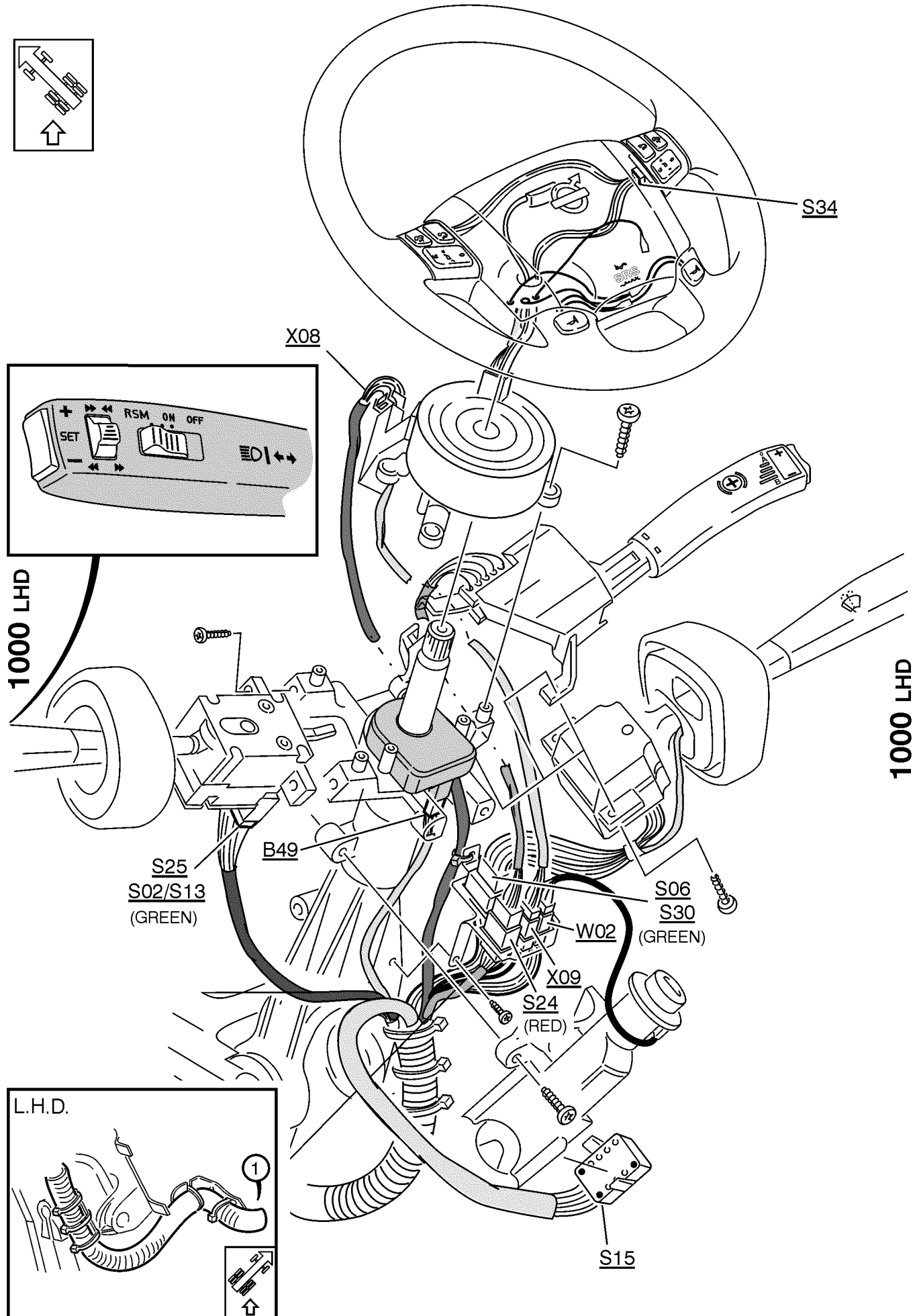


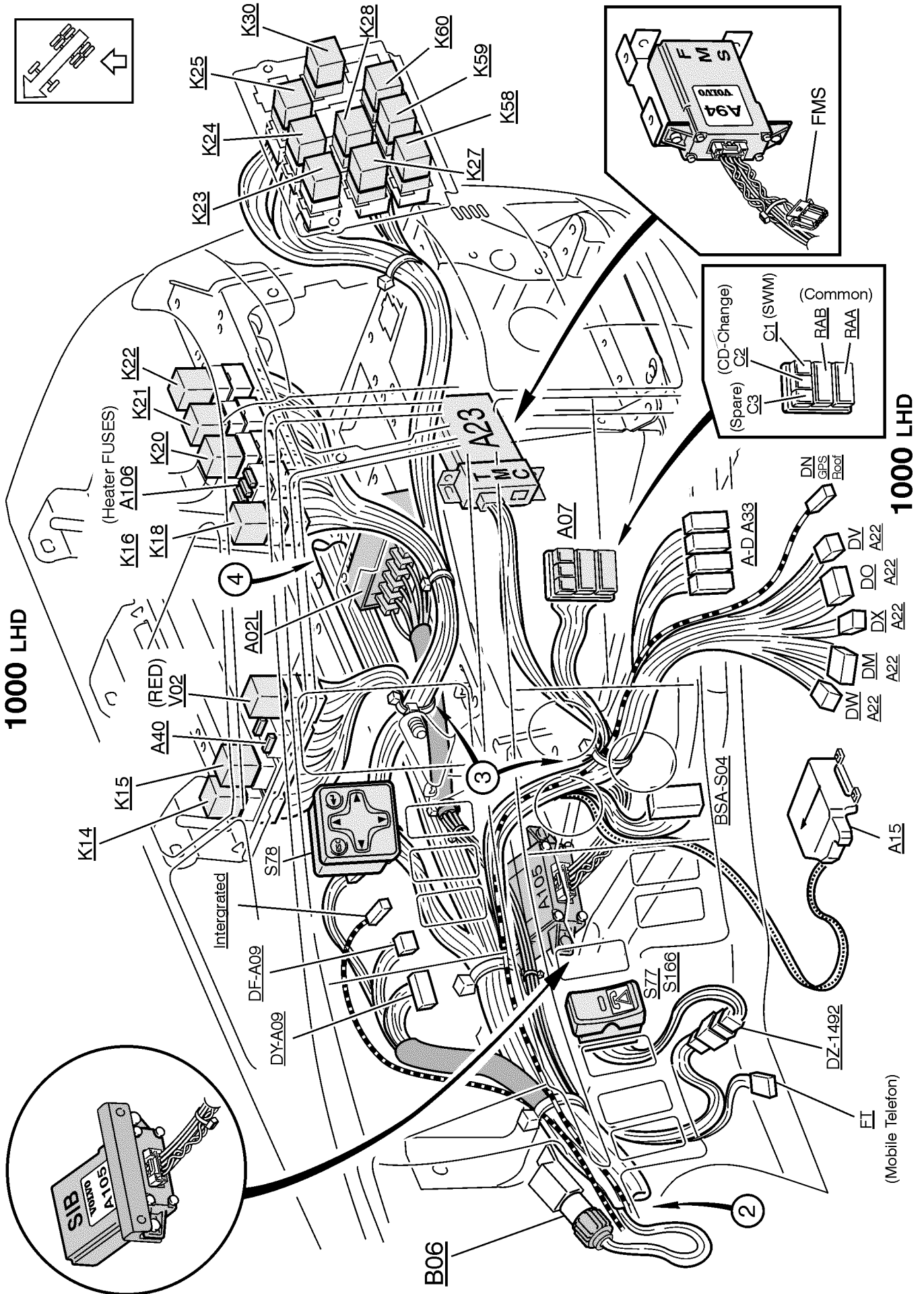
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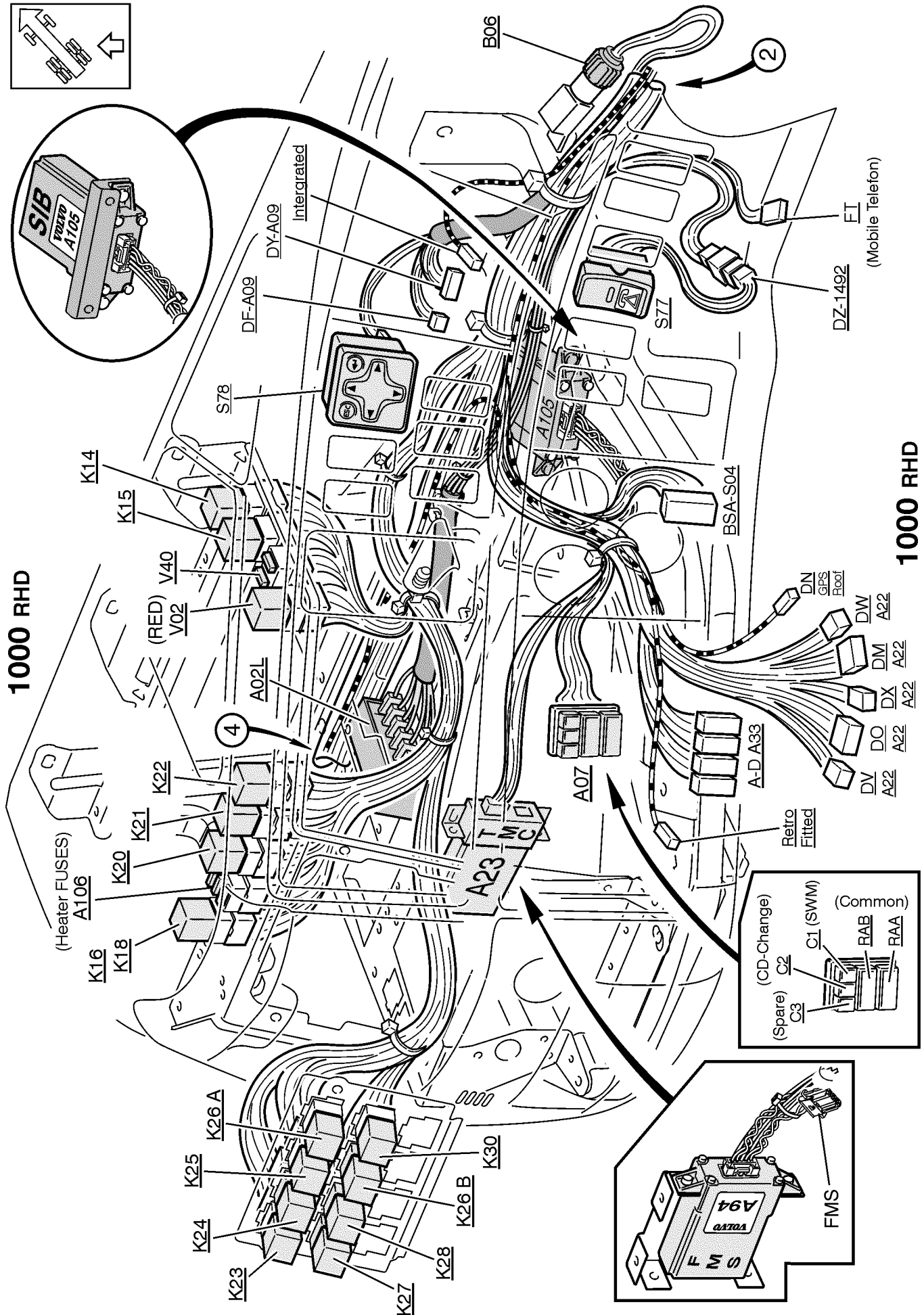
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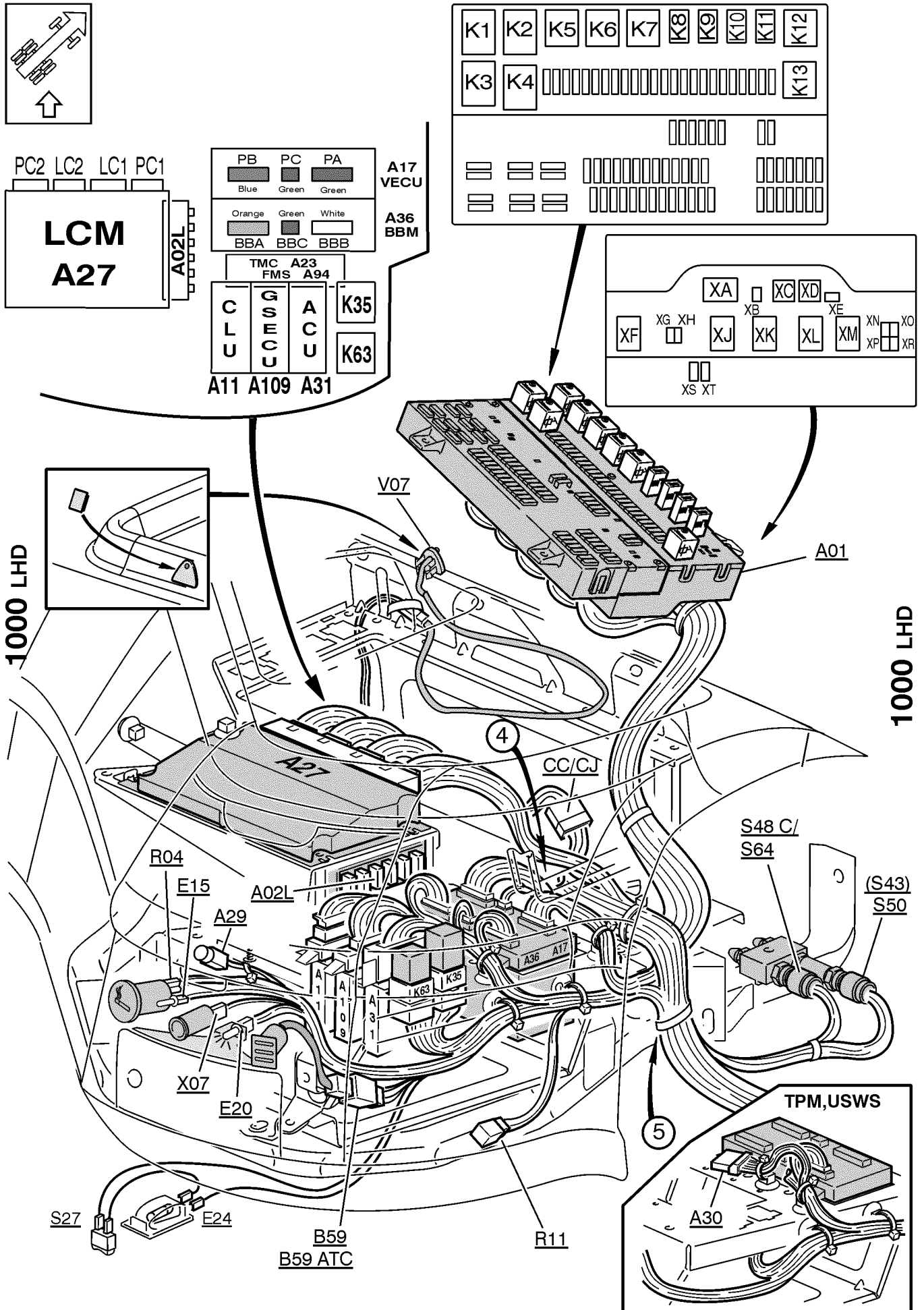
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2A	MA	CA	PL	TM	MC	TD	
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4A							
5A							
1B							
2B							
3B							
4B							
5B							

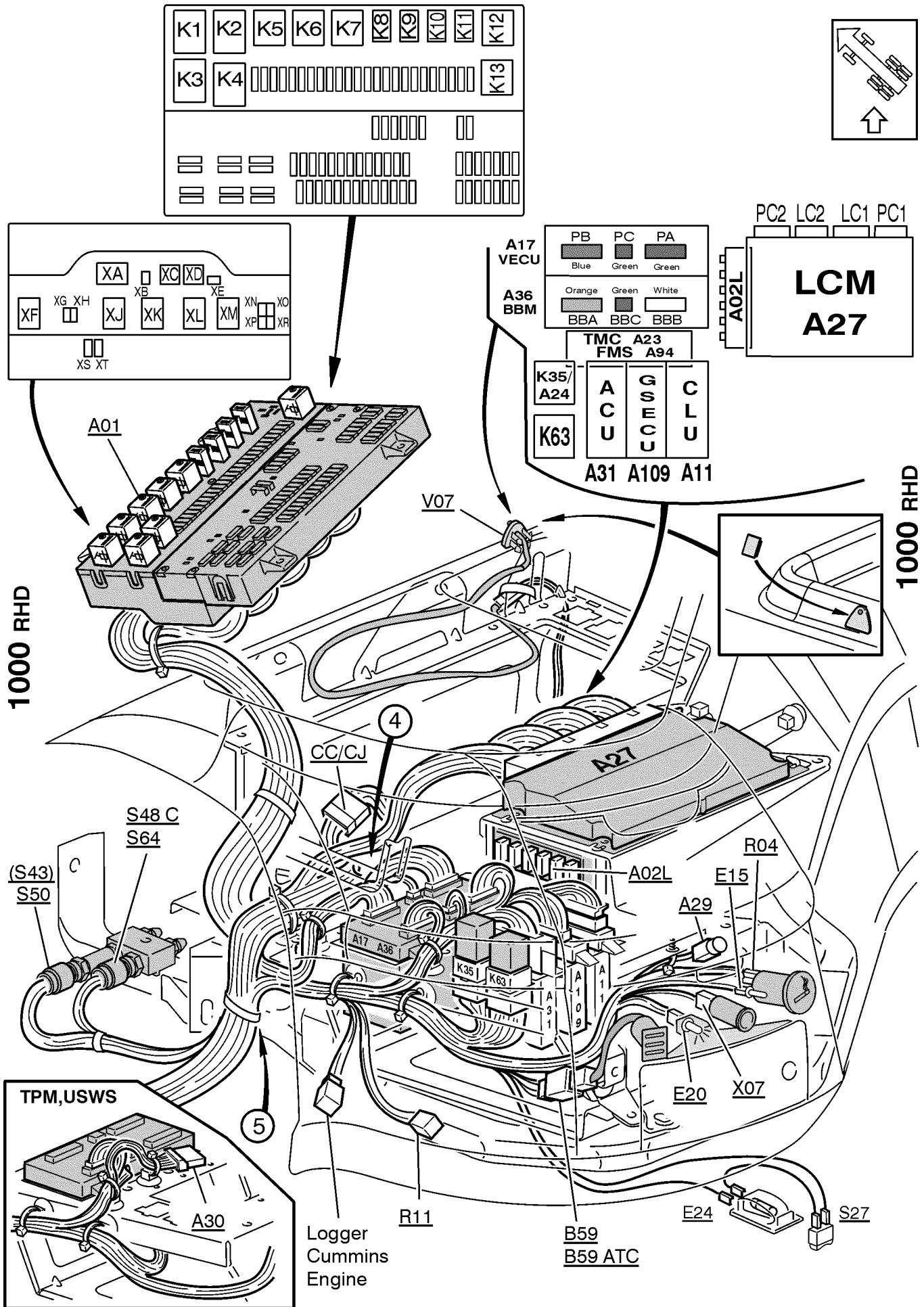


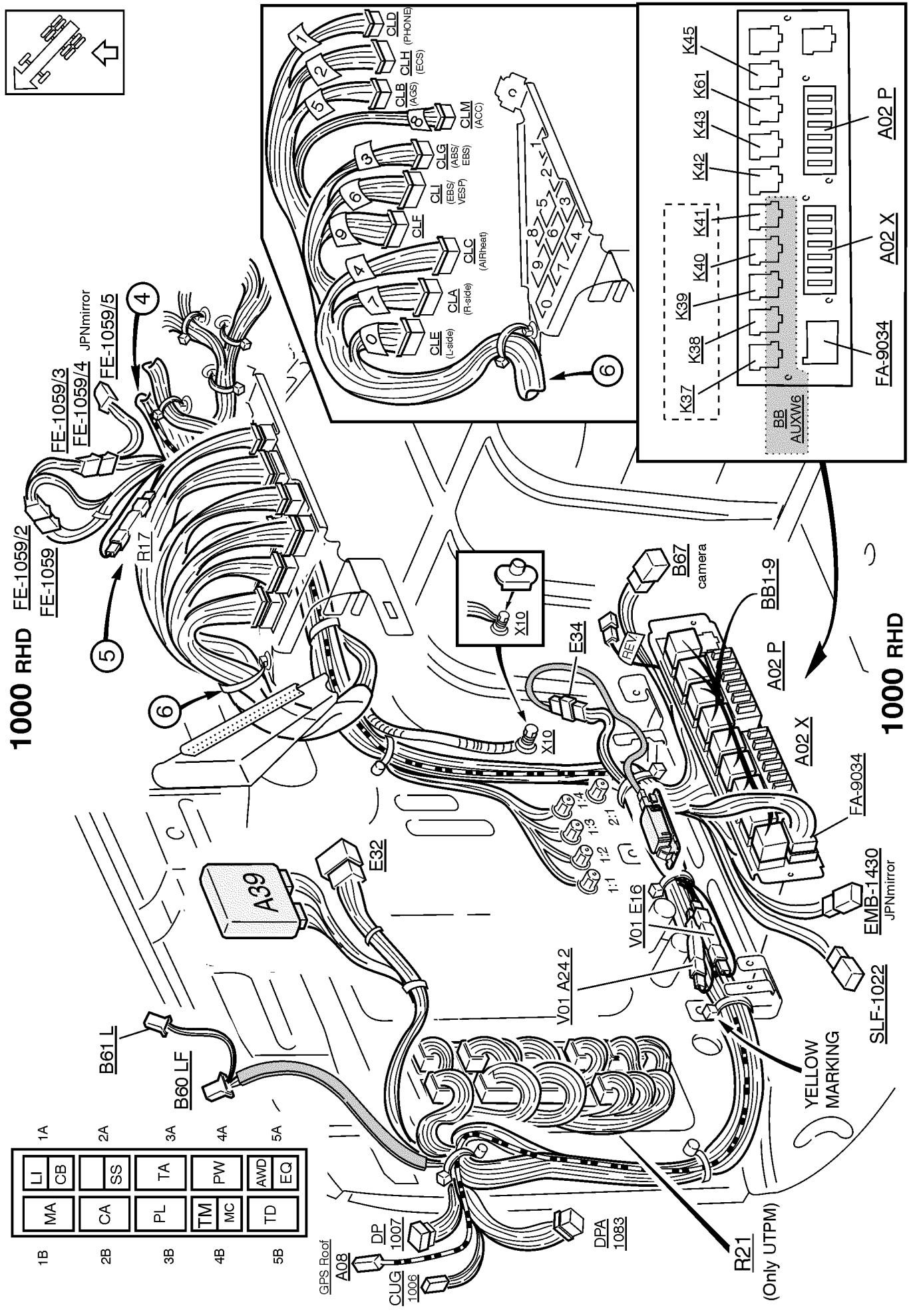




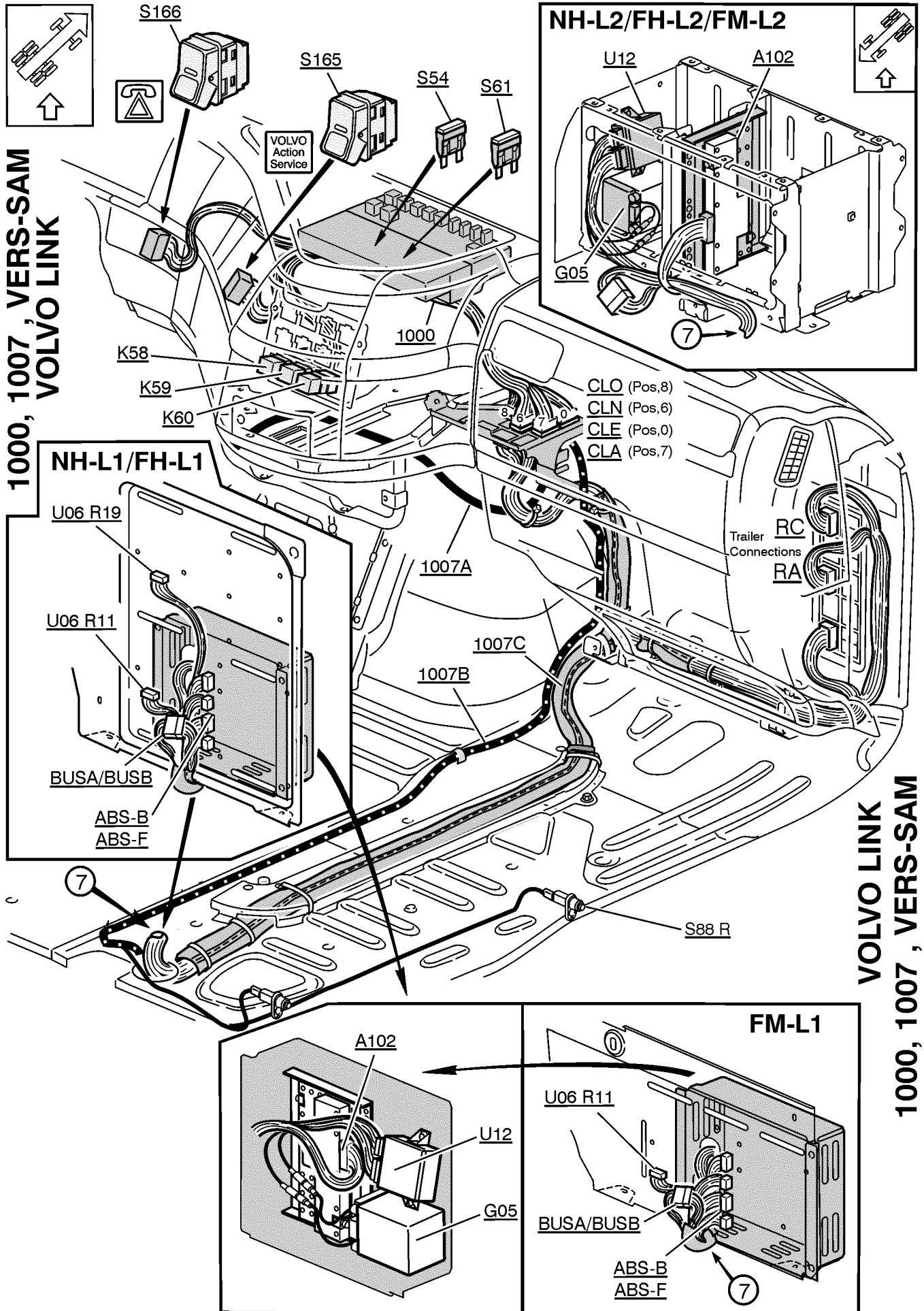




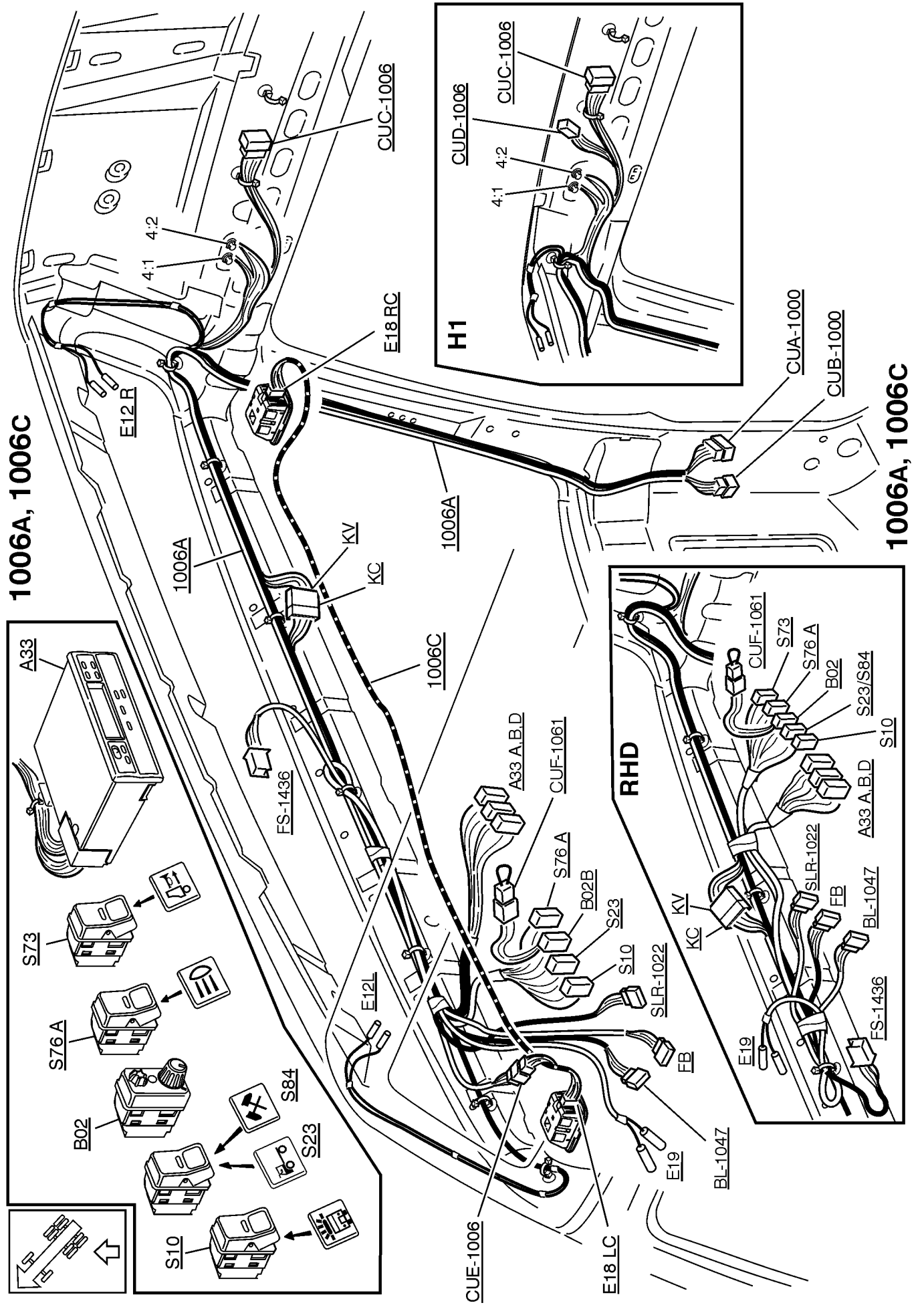


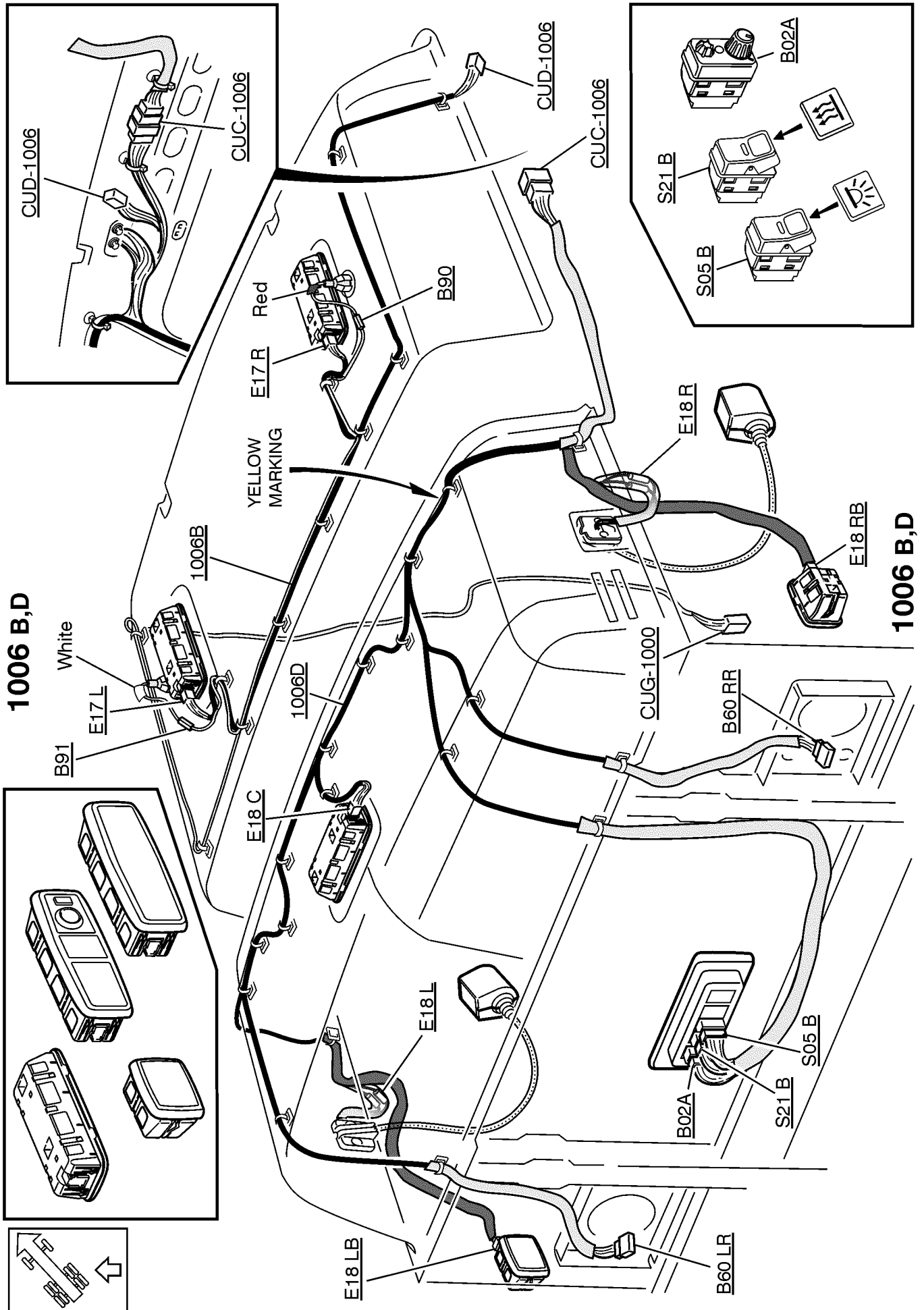


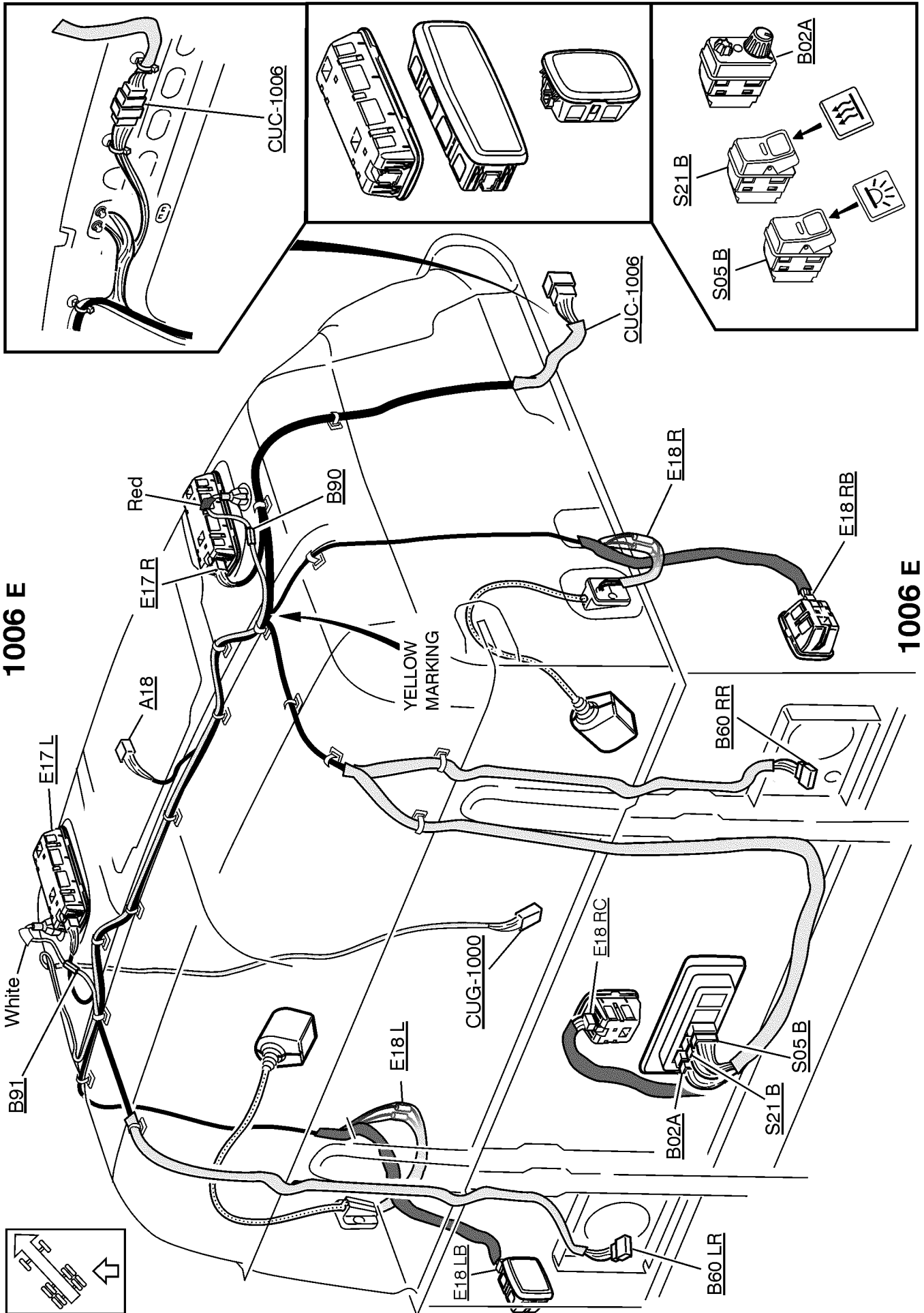
1A	LI	CB	SS	TA	PW	AWD	EQ
2A	MA	CA	PL	TM	MC	TD	
3A							
4A							
5A							
1B							
2B							
3B							
4B							
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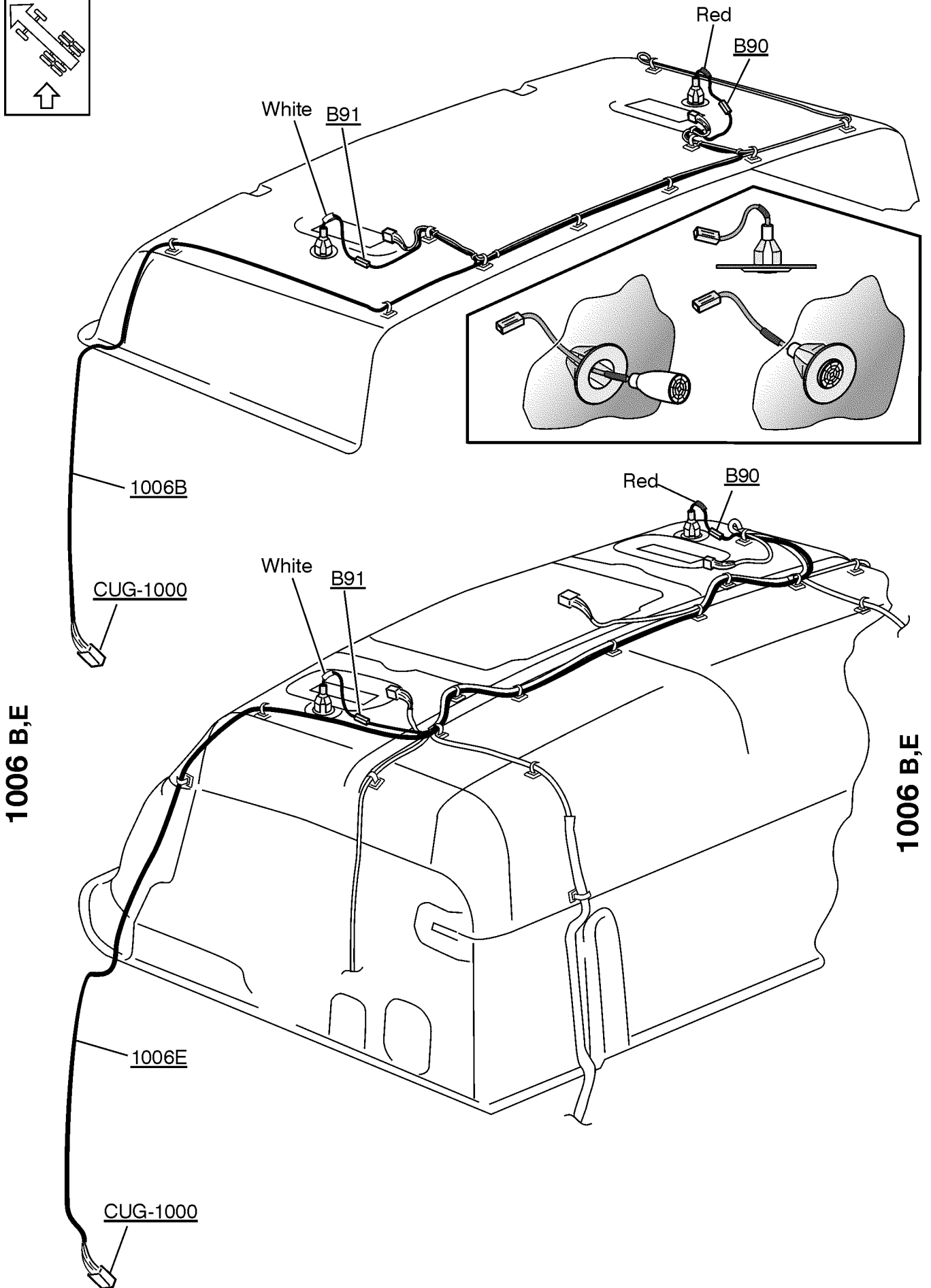
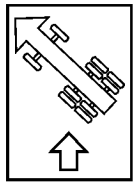


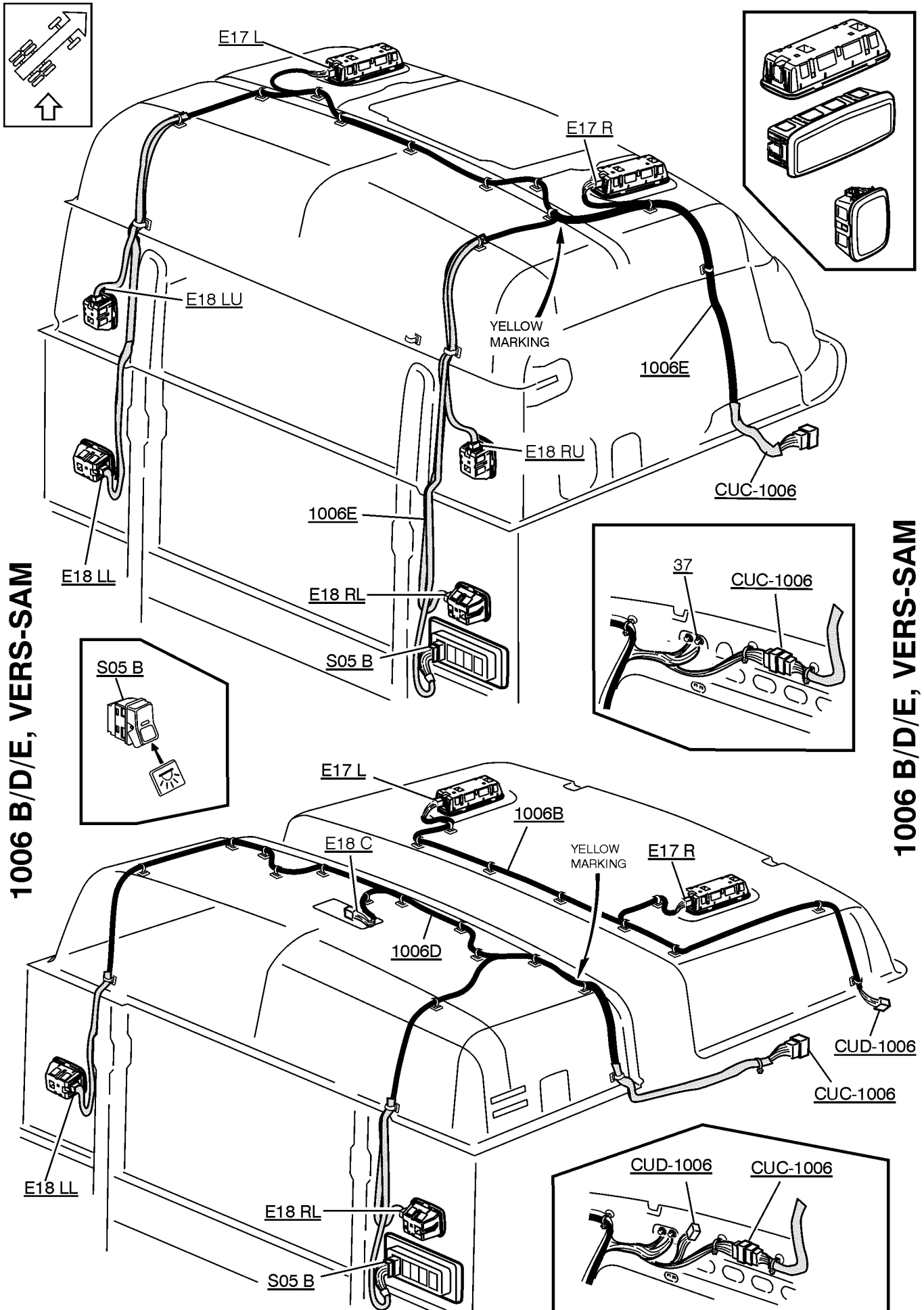
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1000, 1007, VERS-SAM**

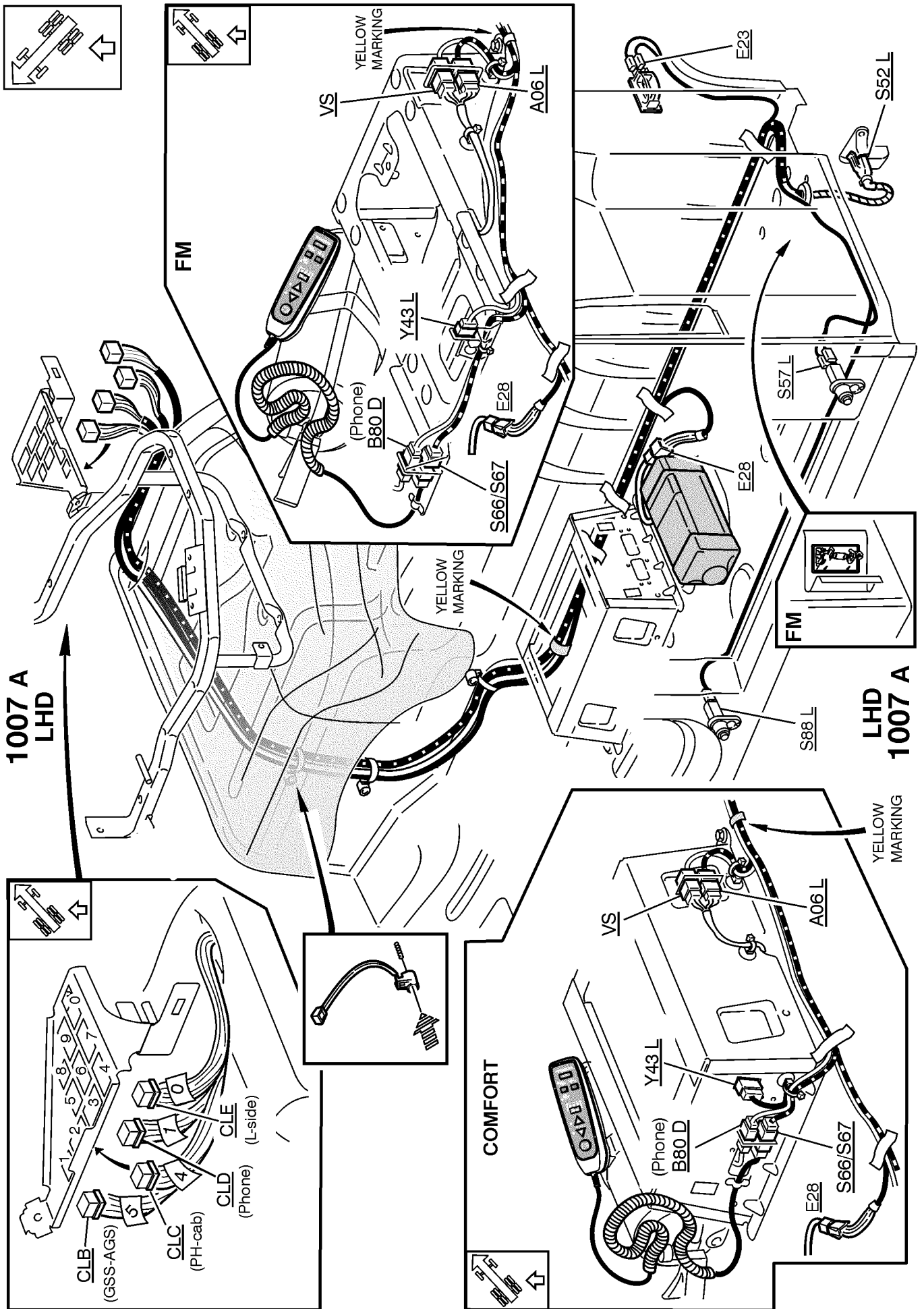


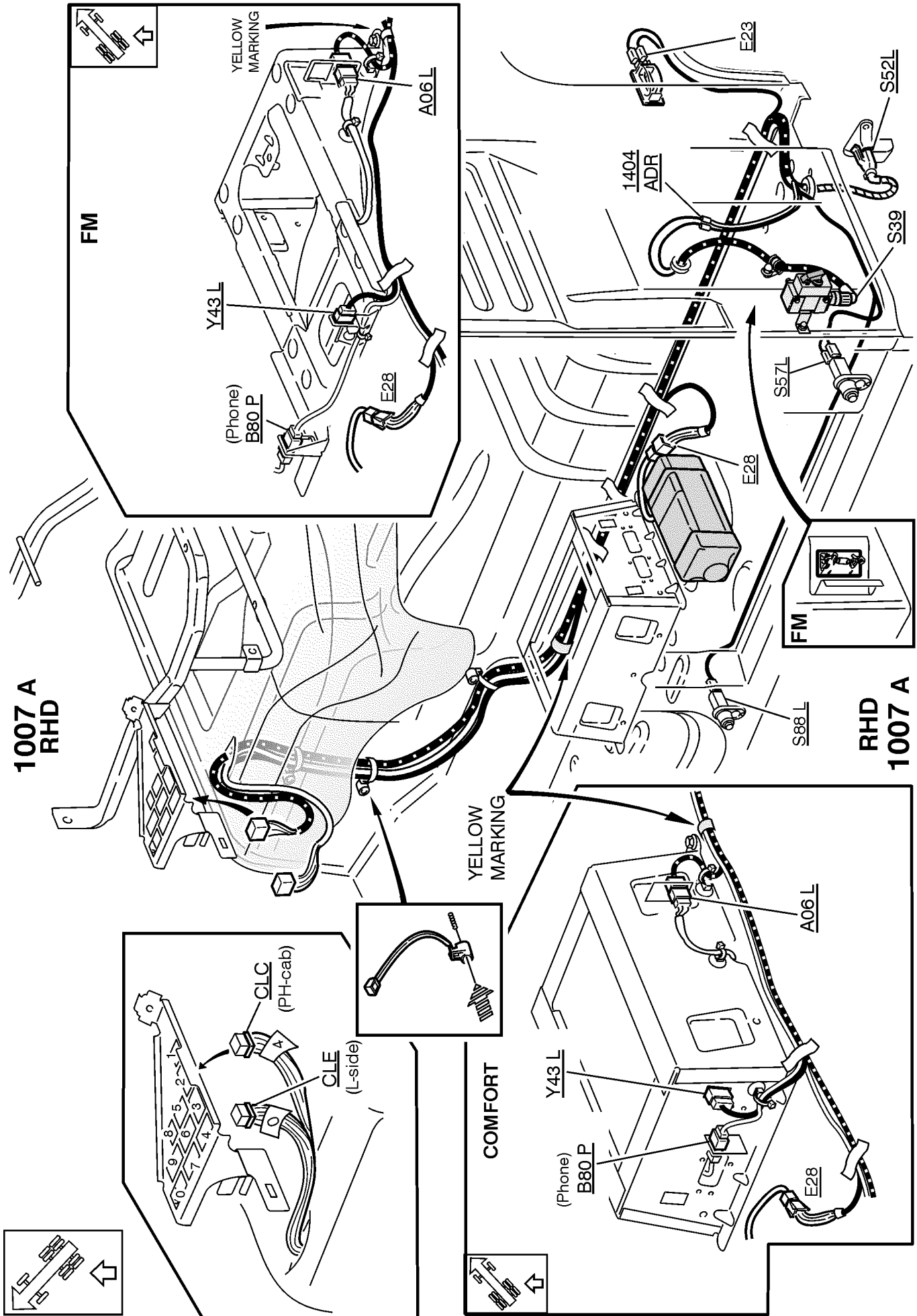


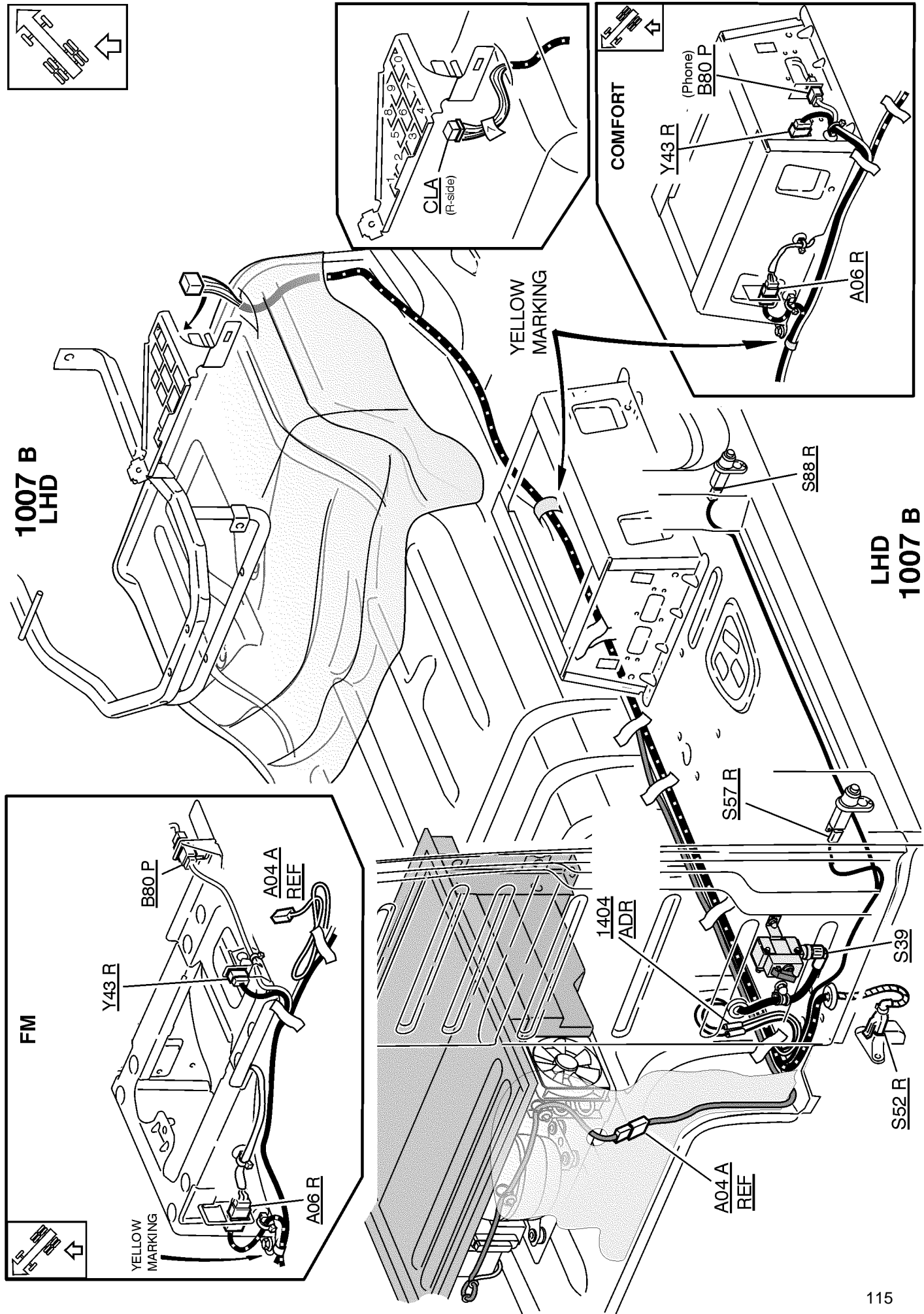


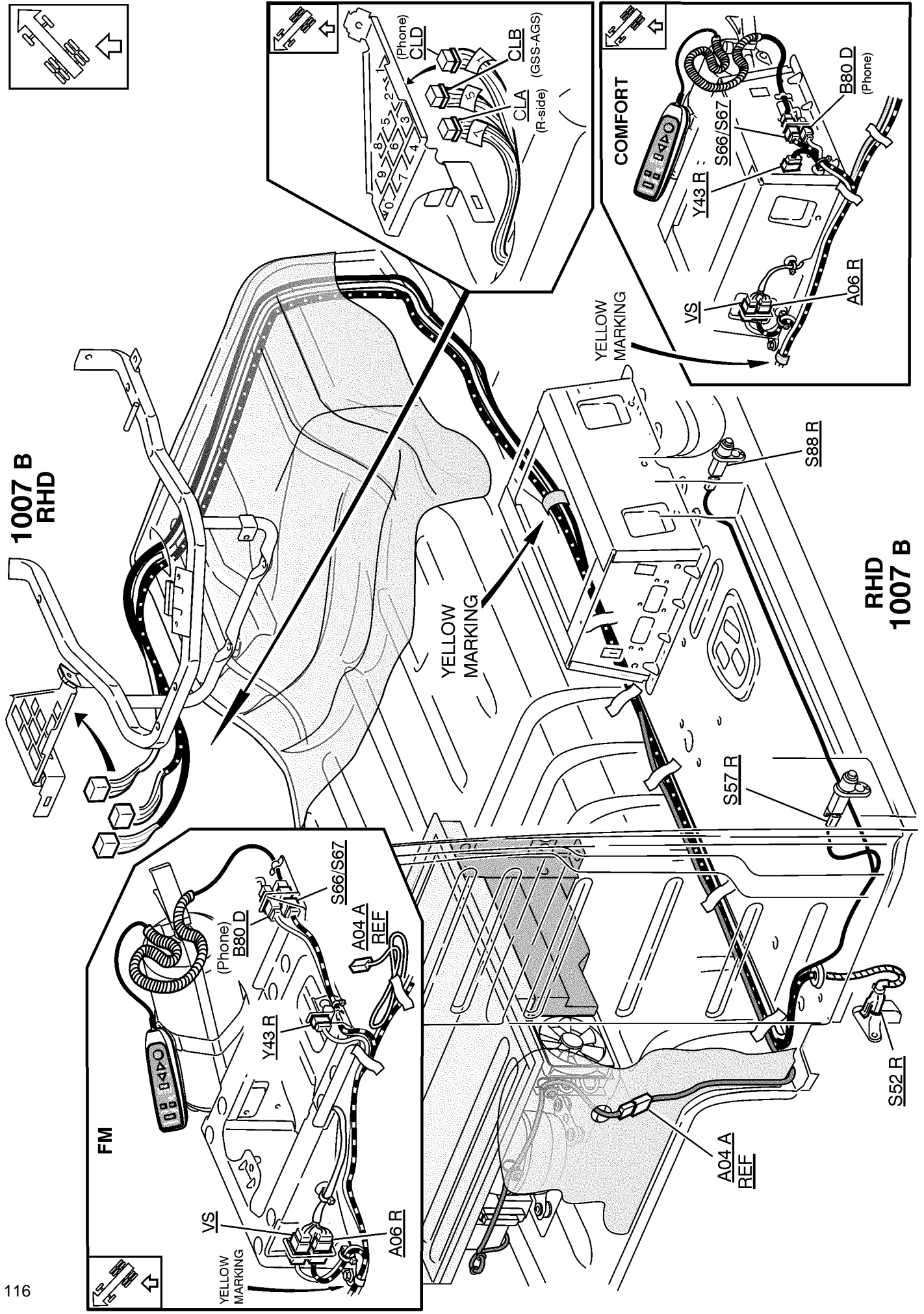


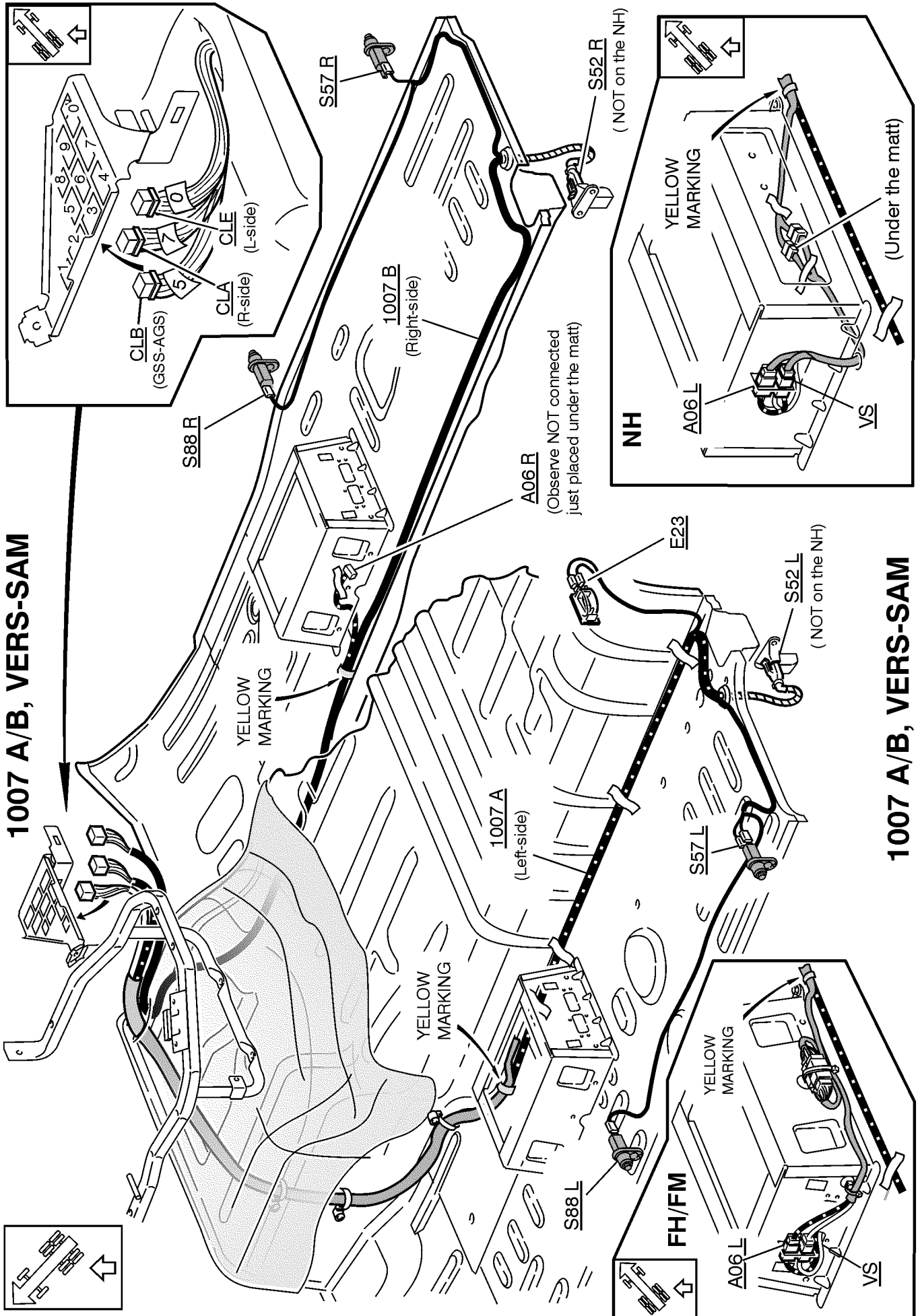


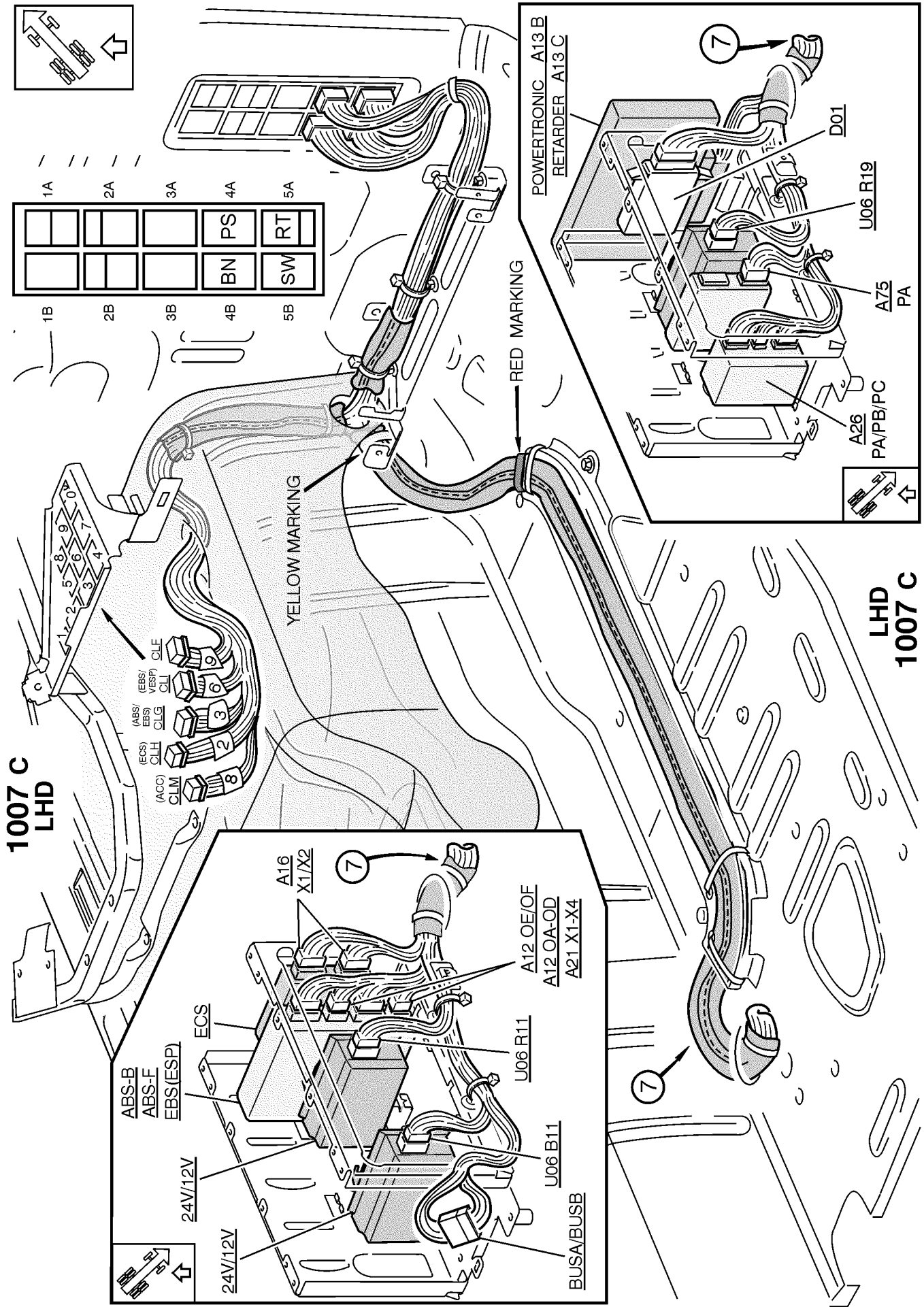


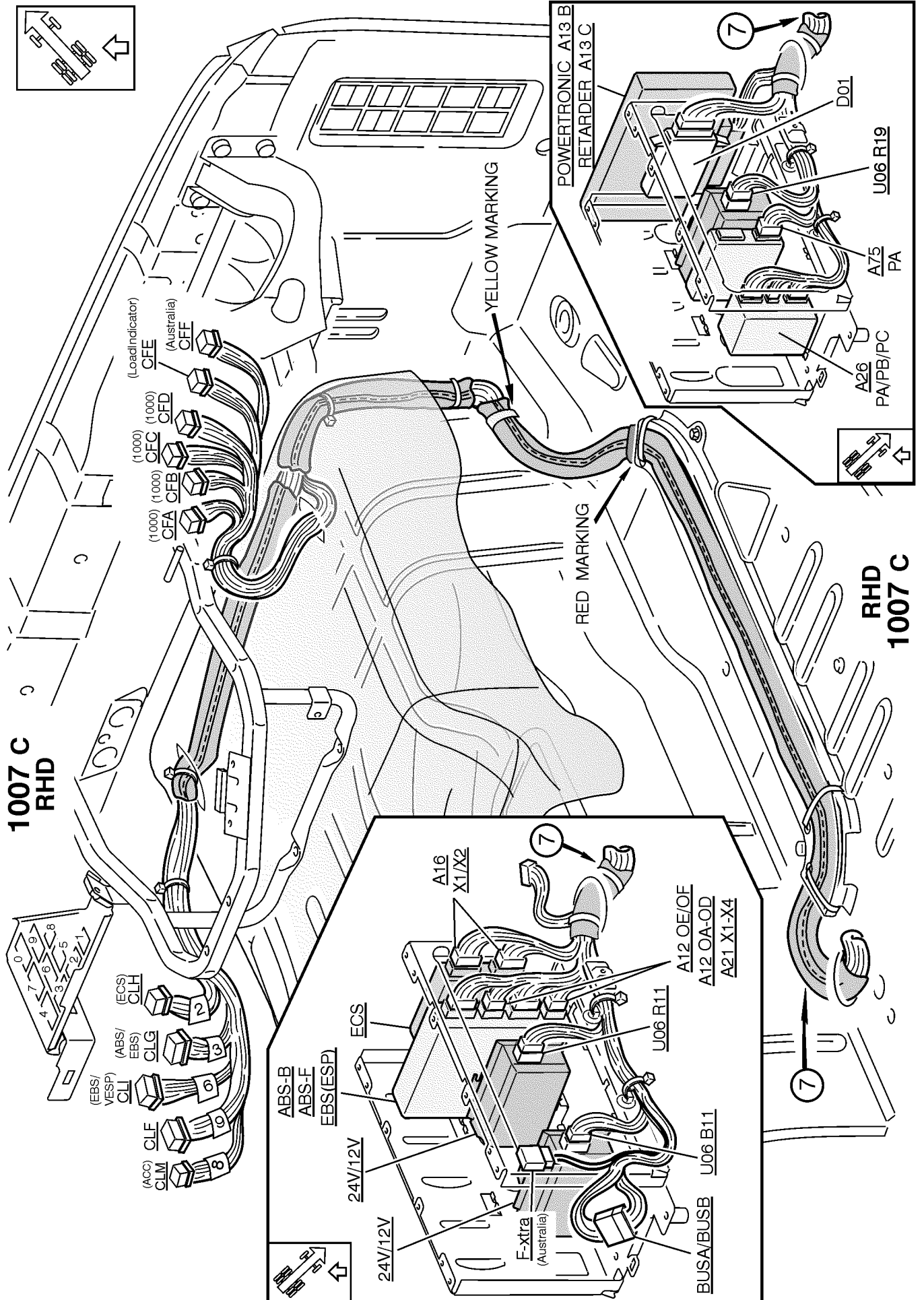






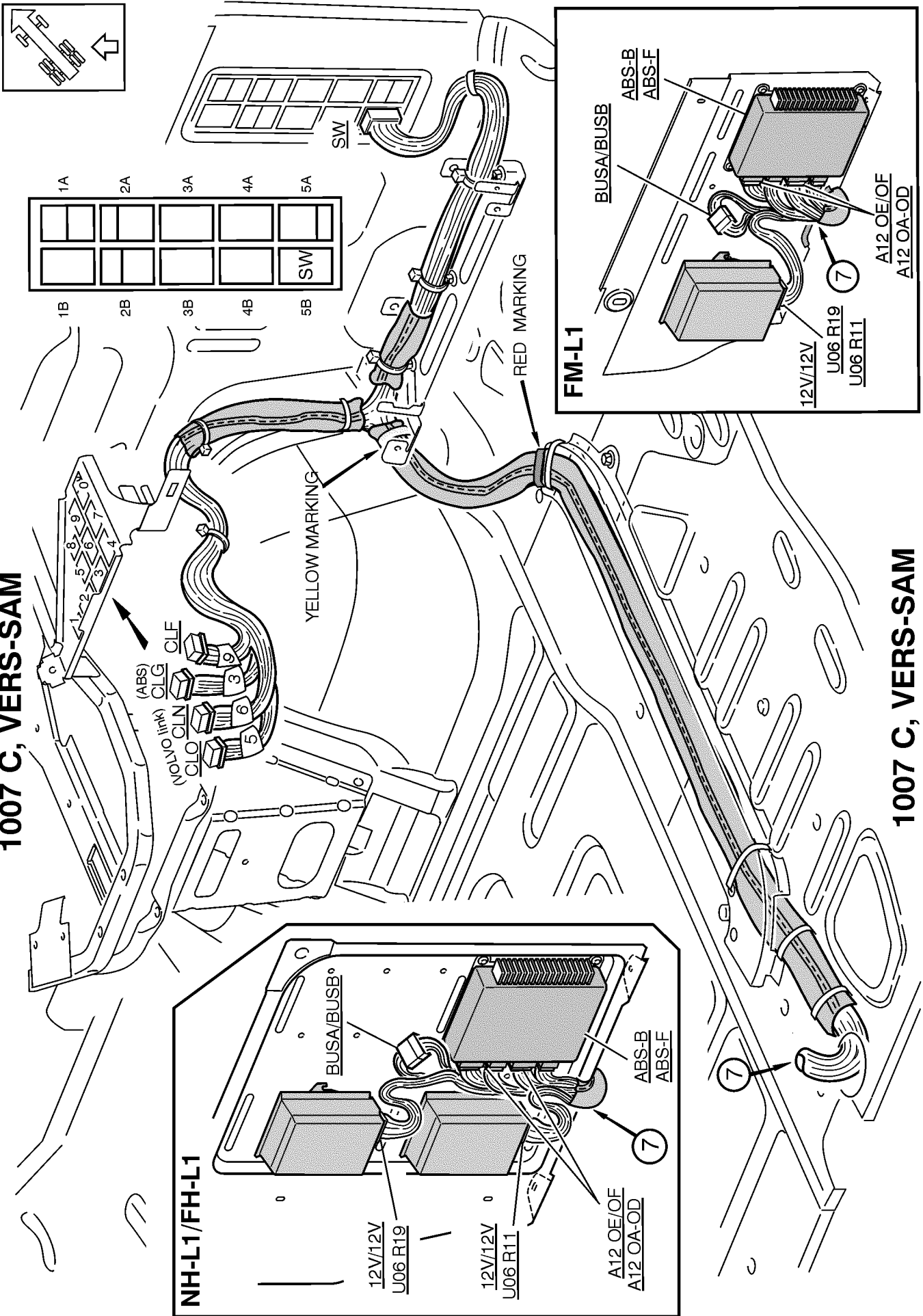


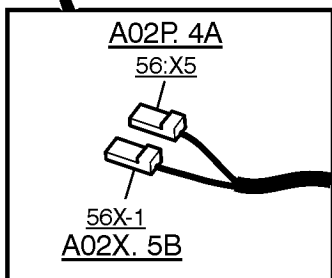
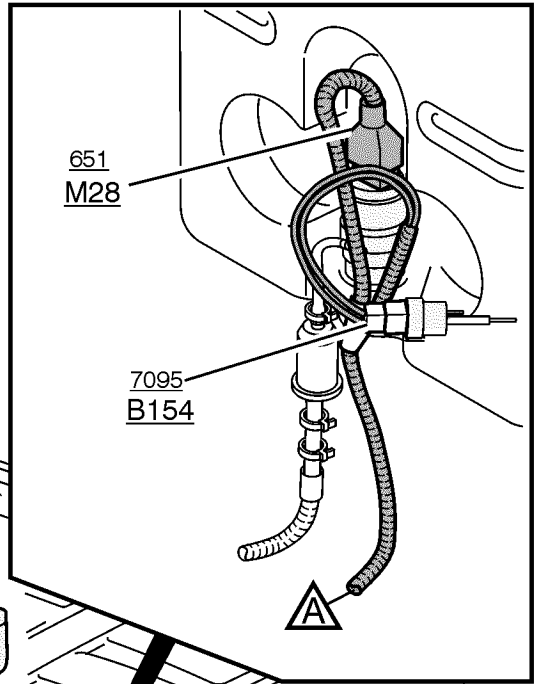
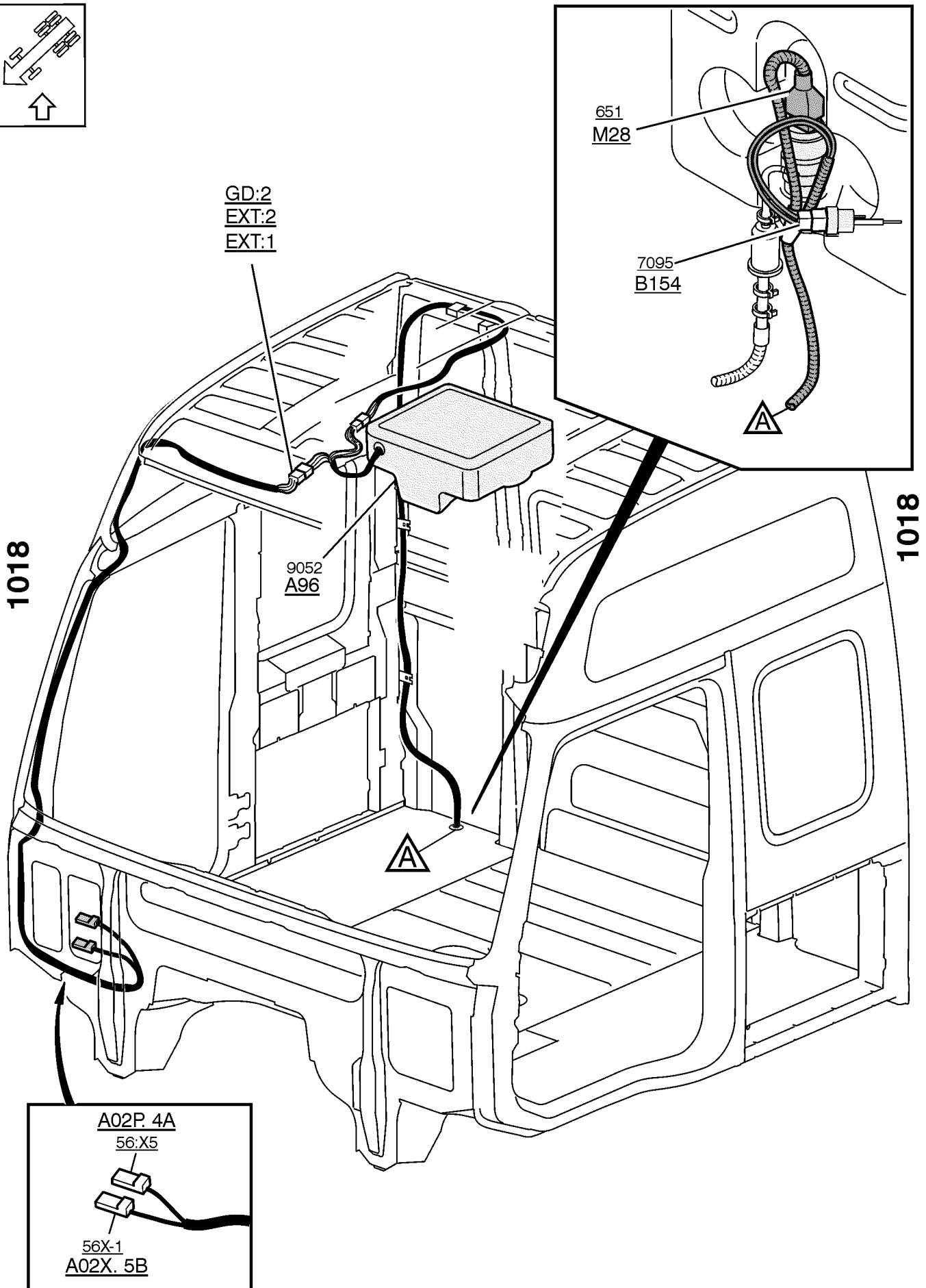
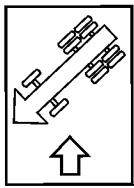


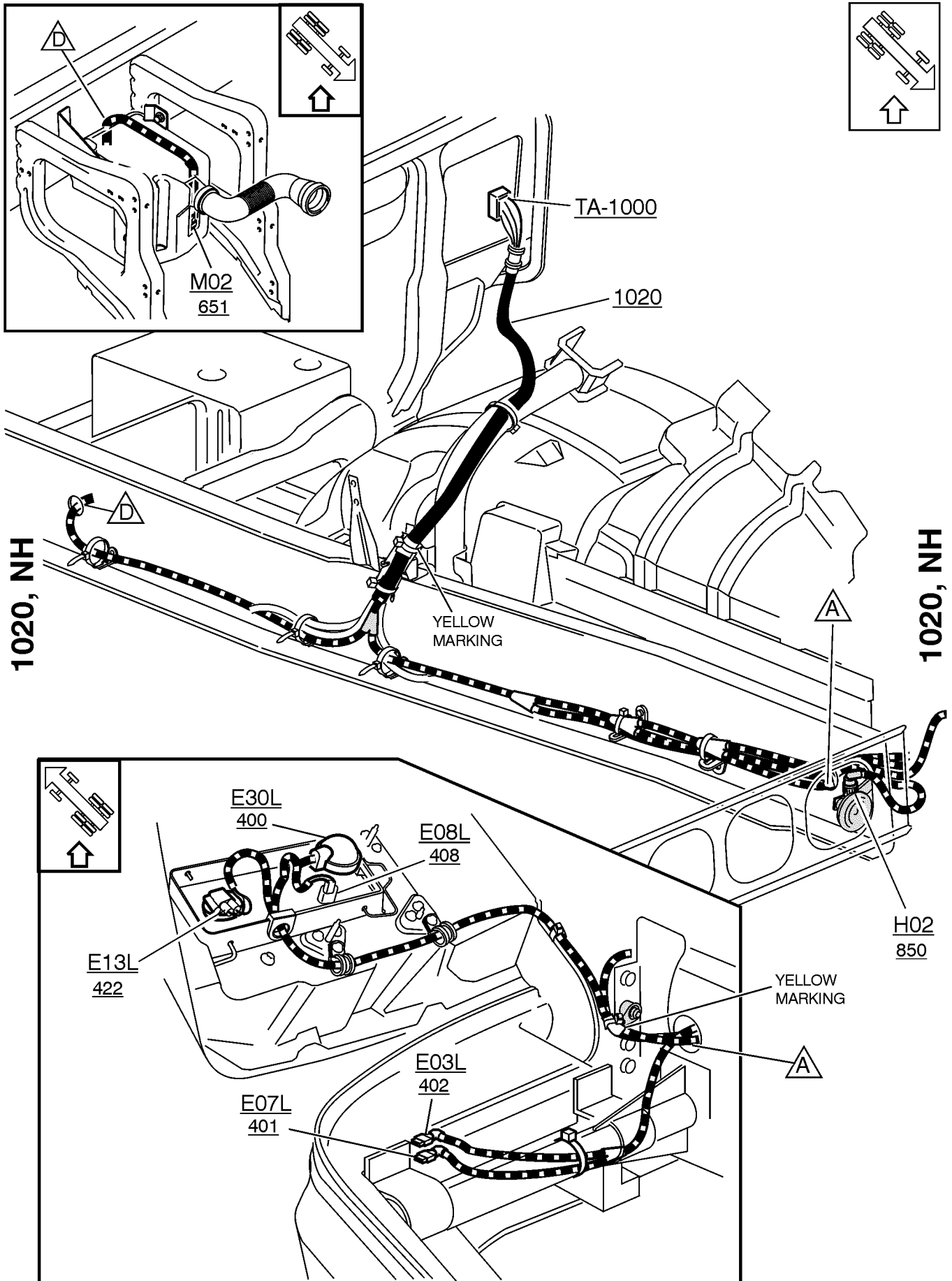


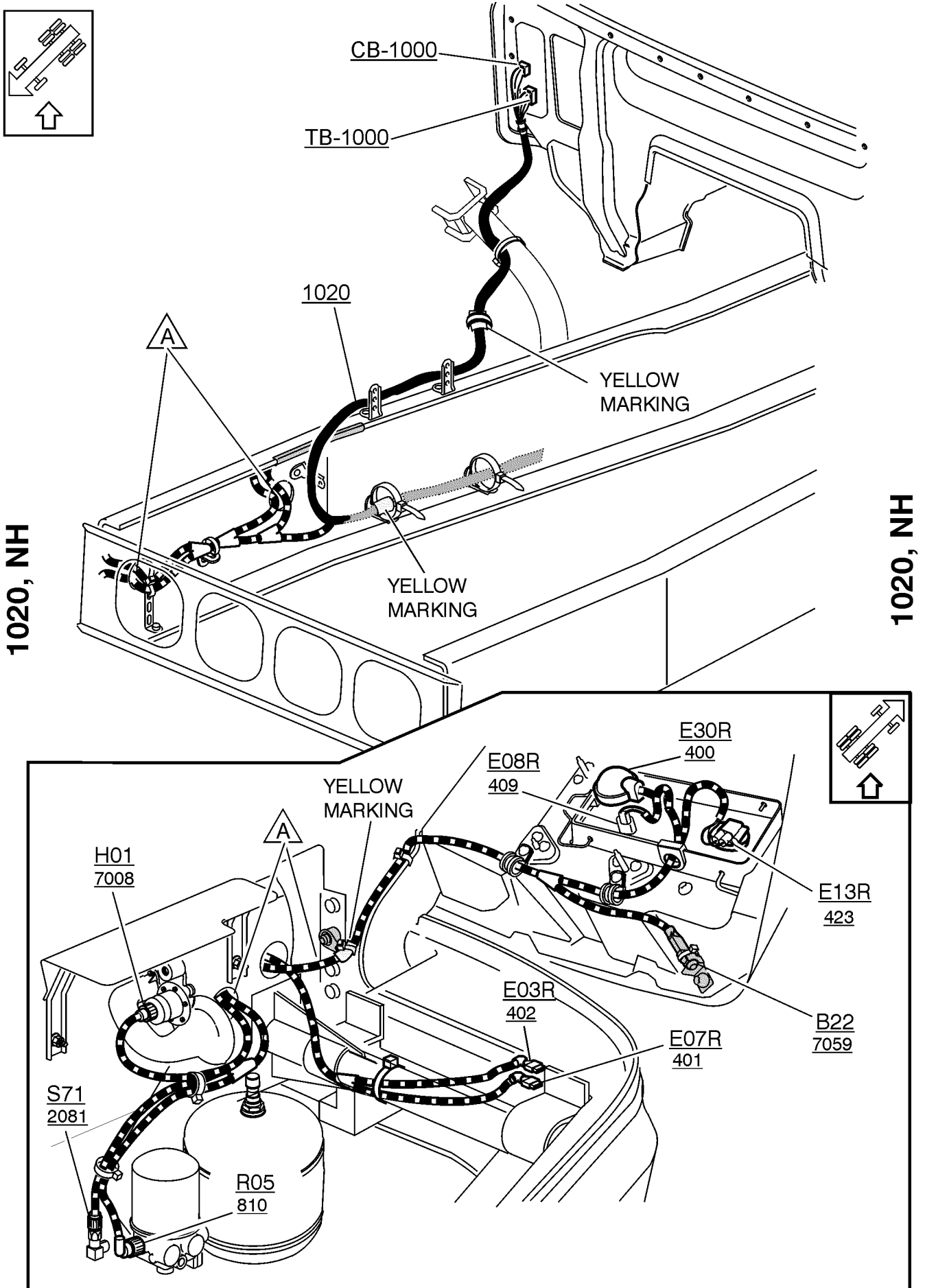
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1007 C, VERS-SAM



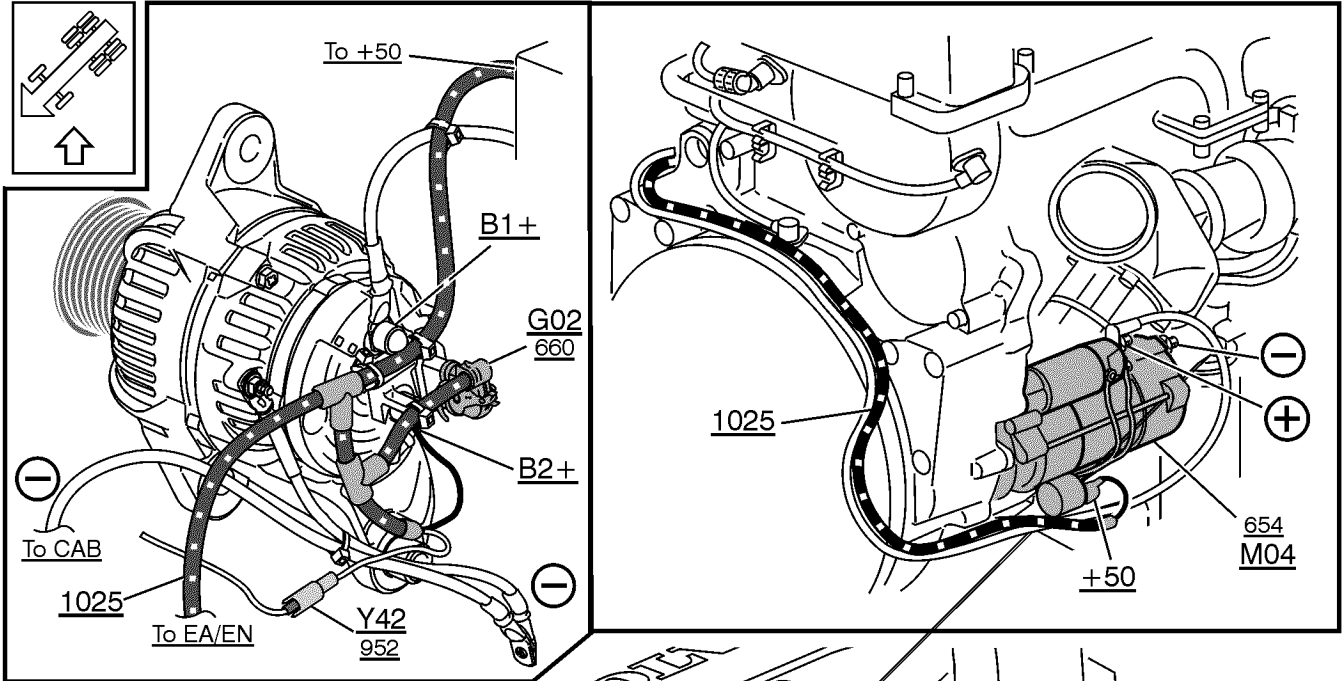




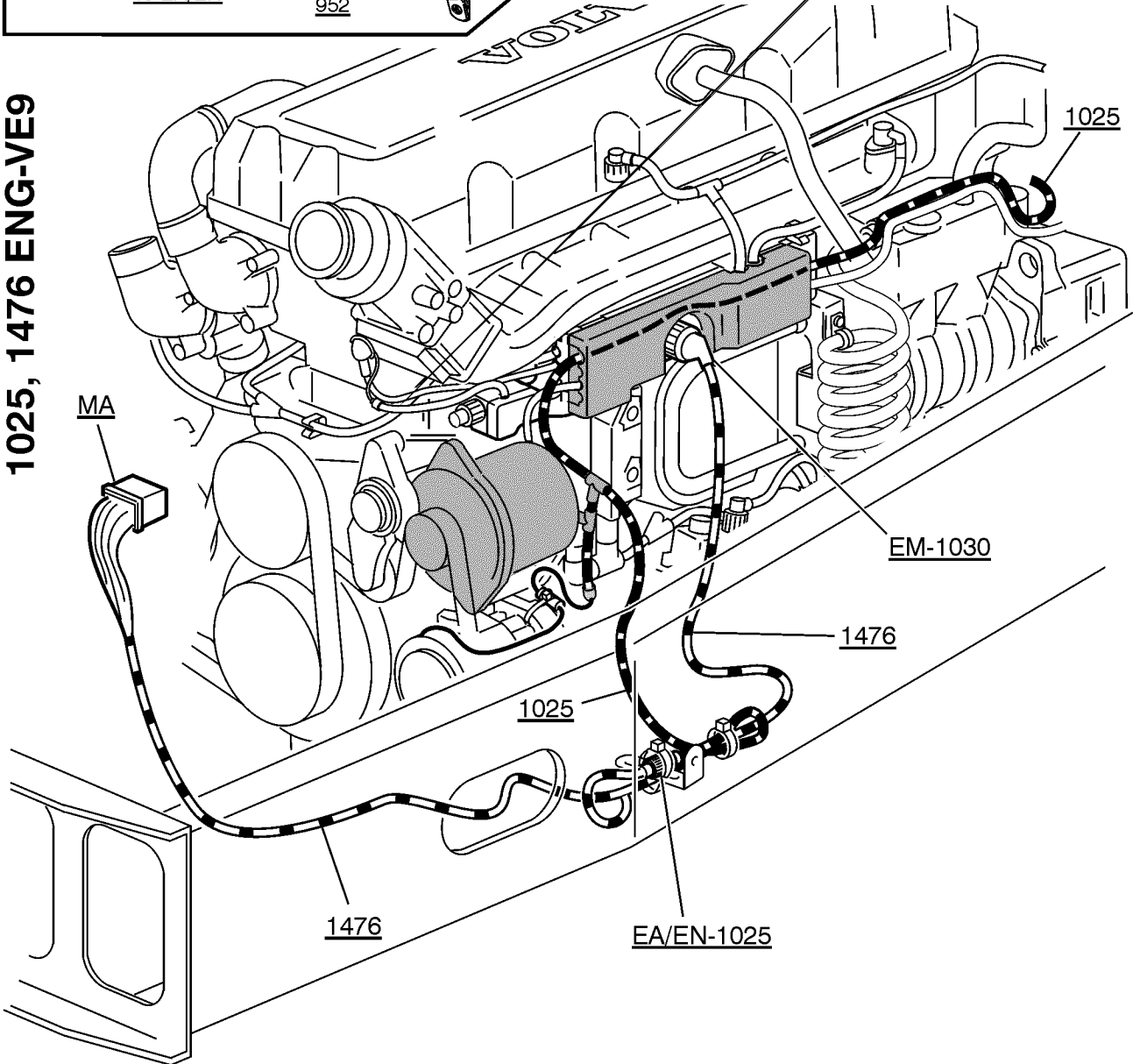


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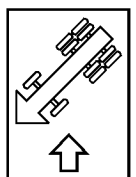
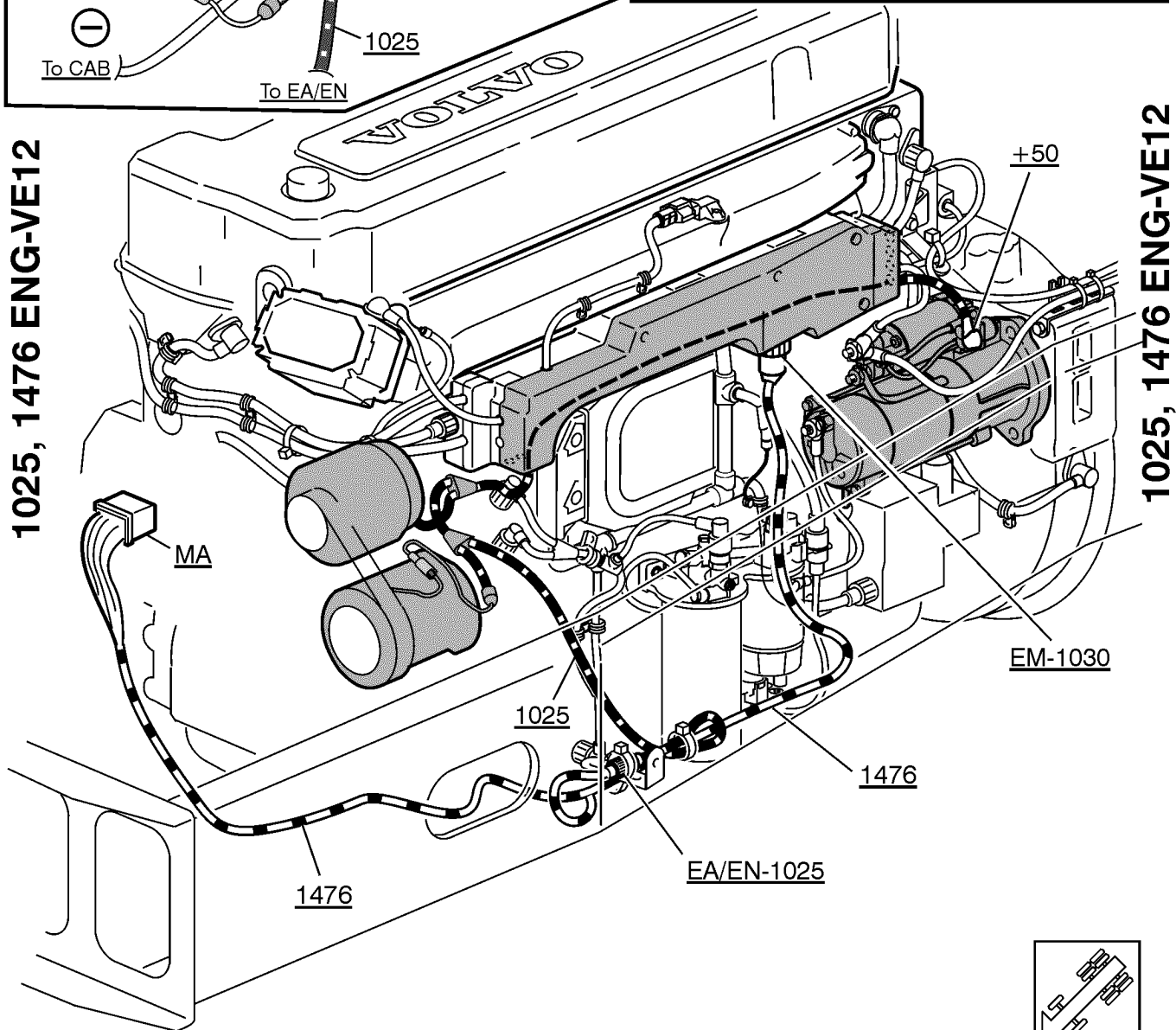
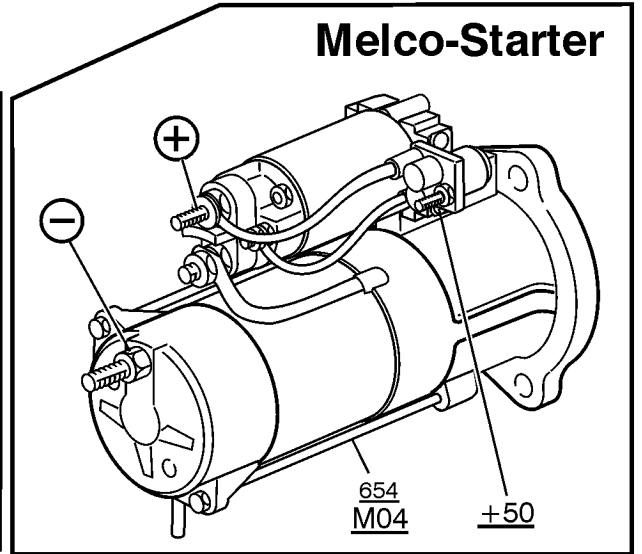
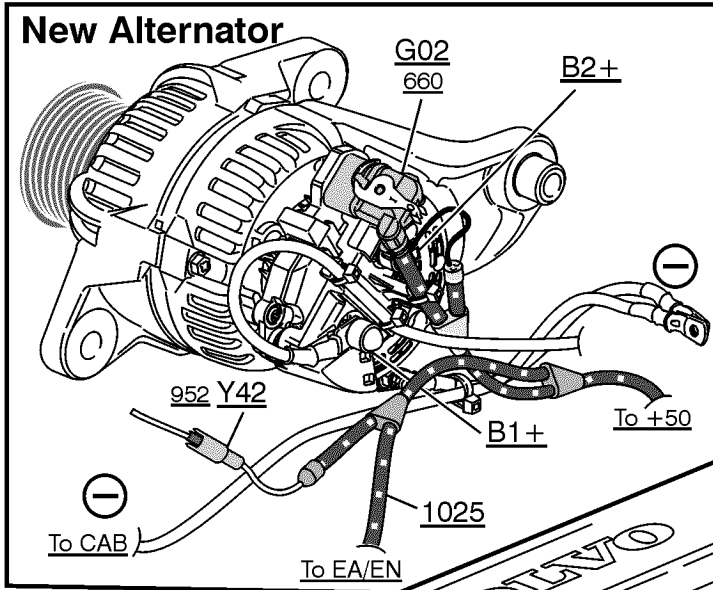
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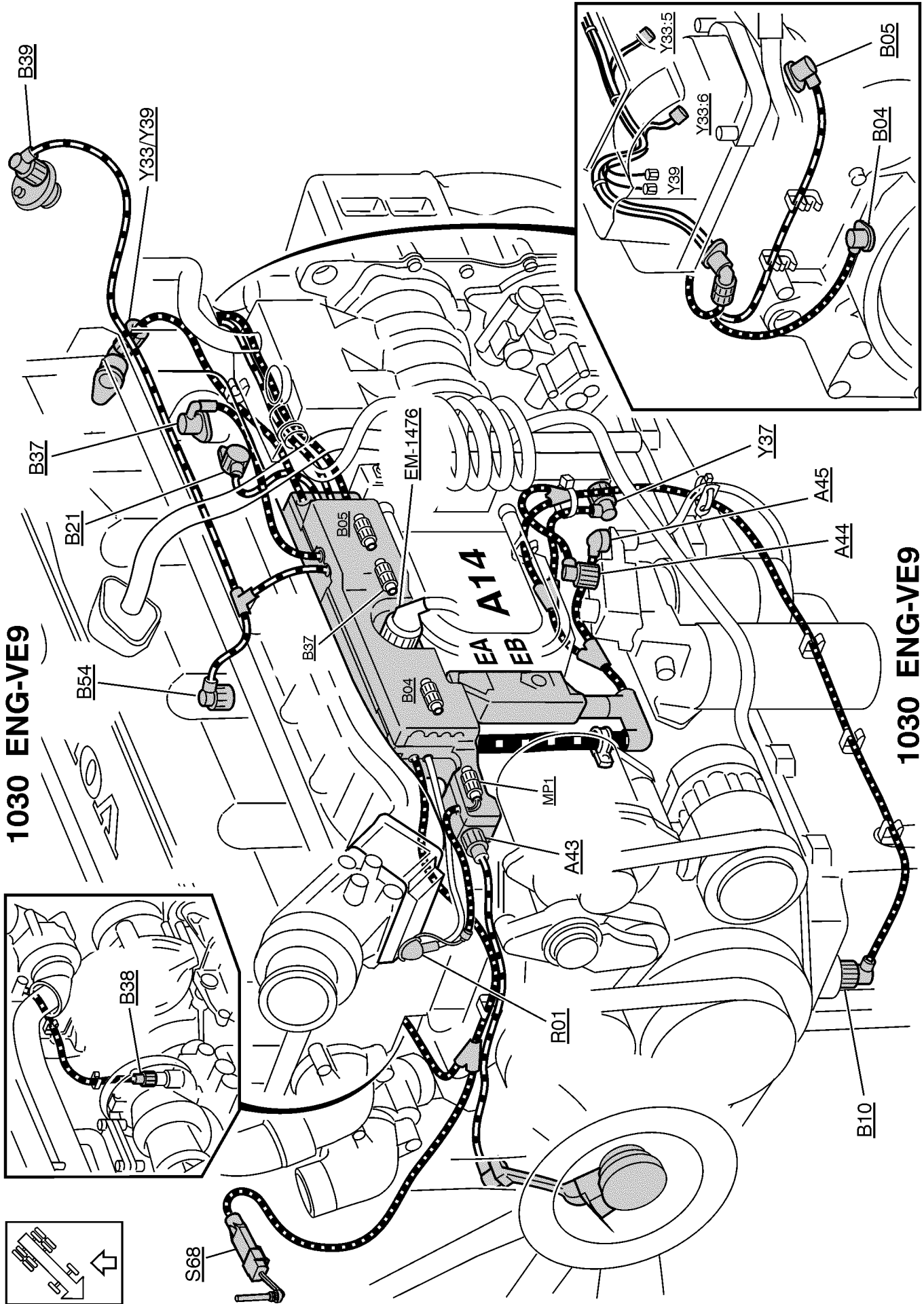


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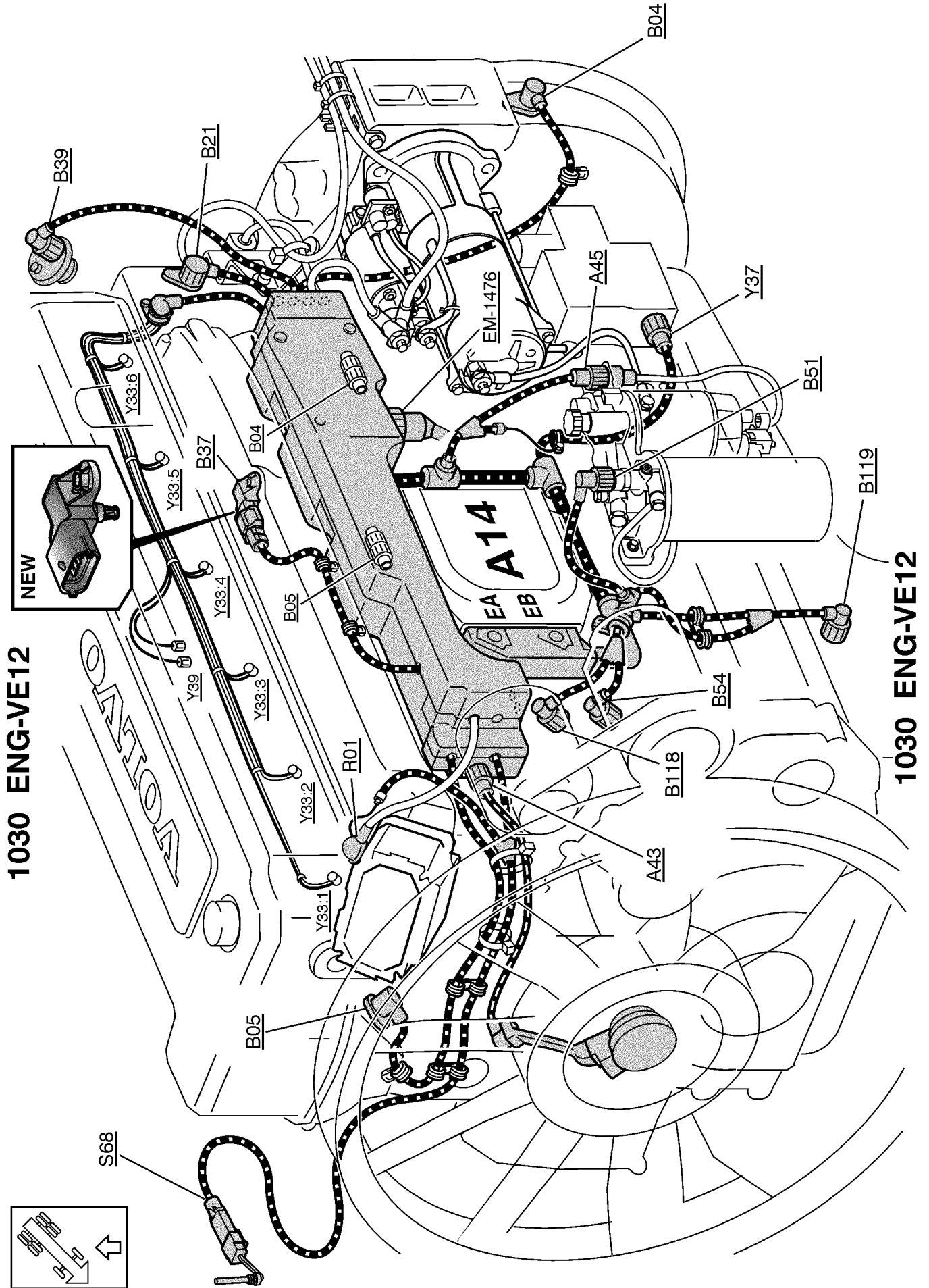
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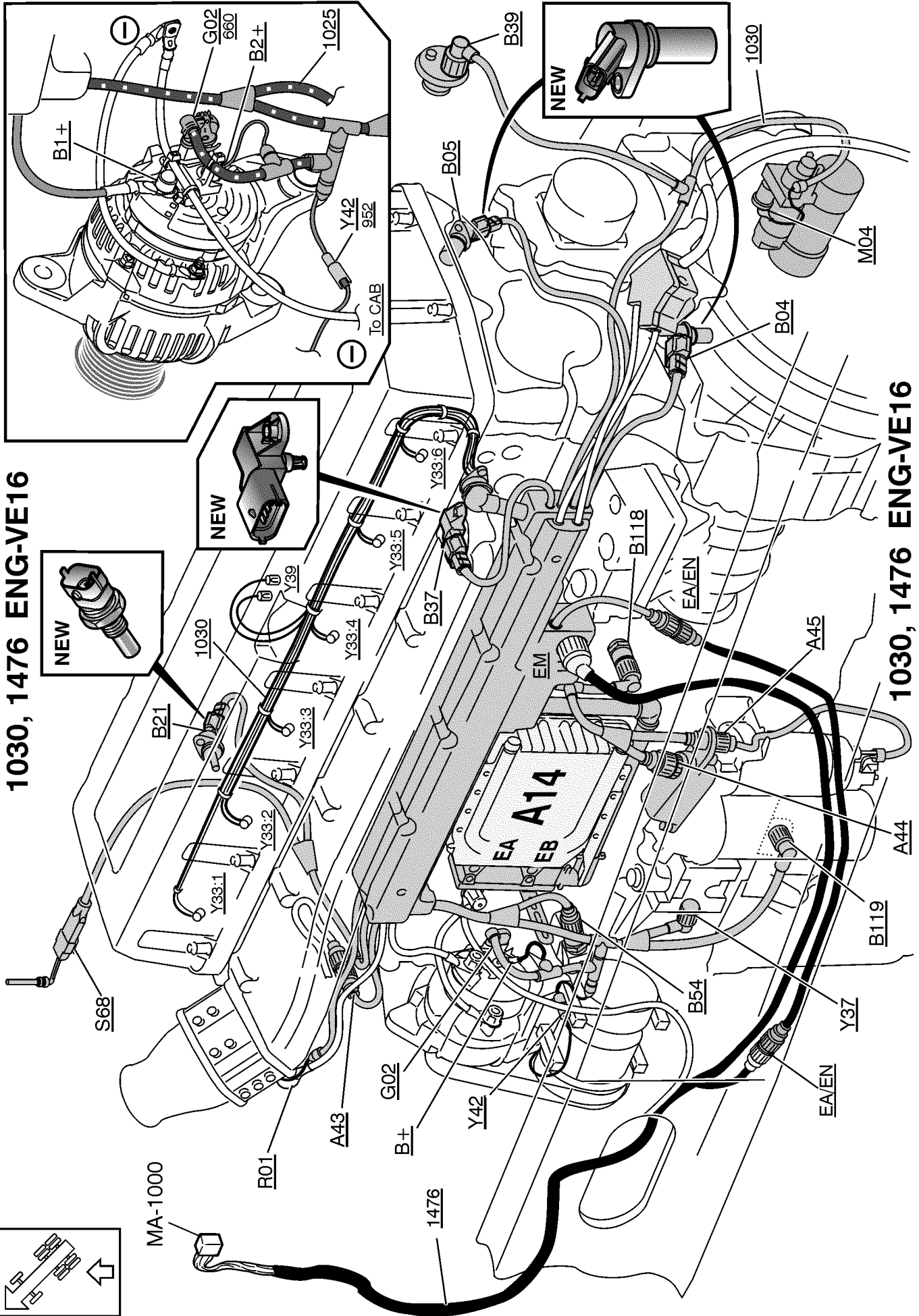
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1030 ENG-VE9



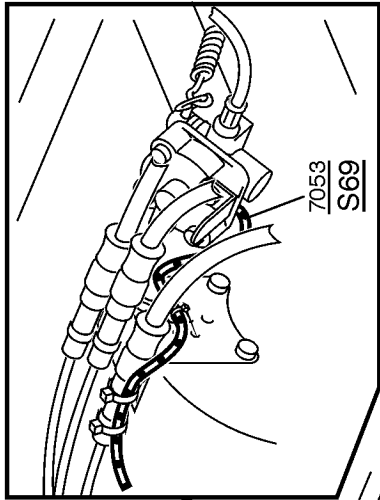
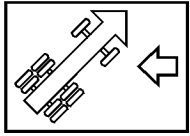
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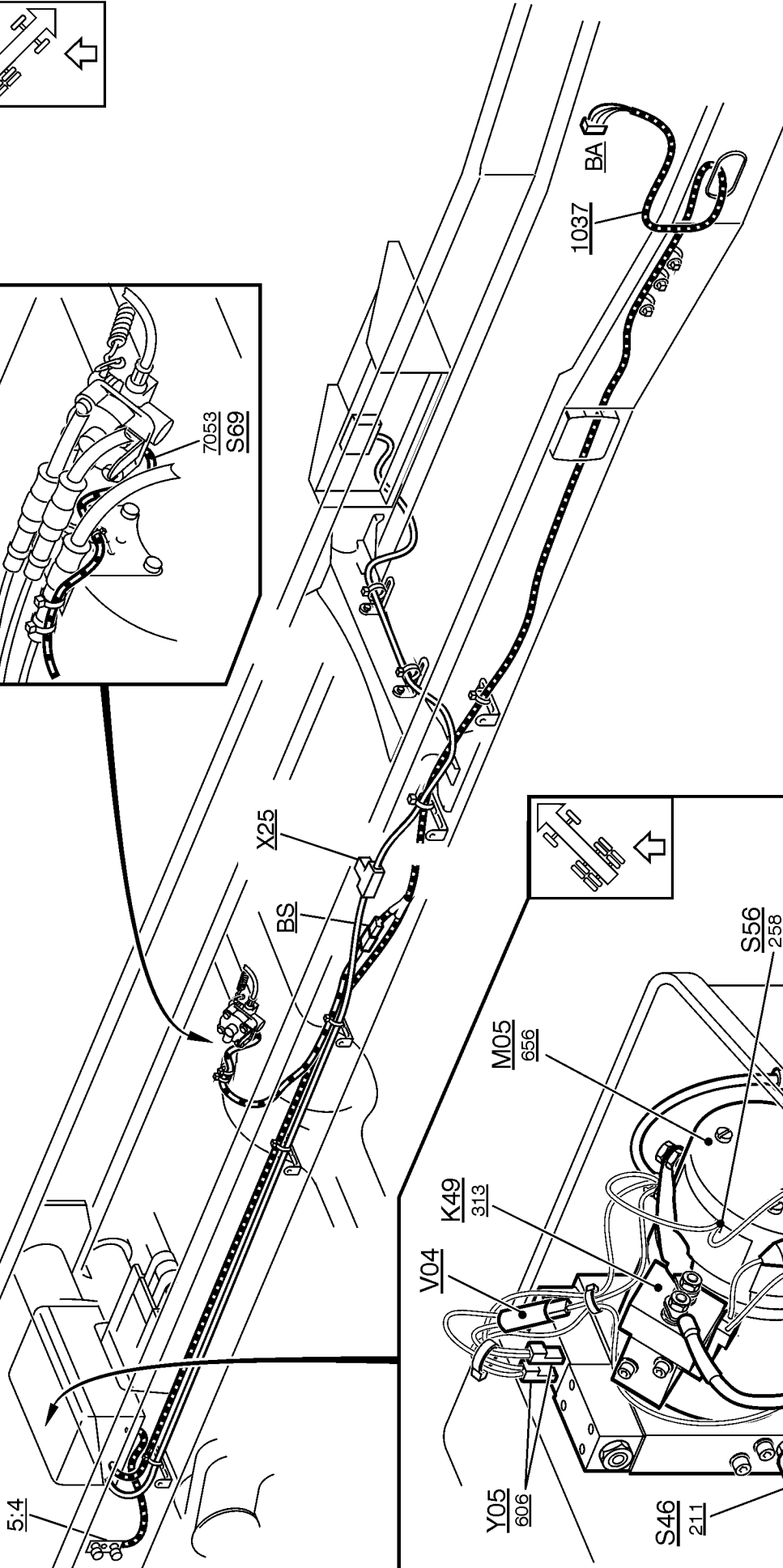


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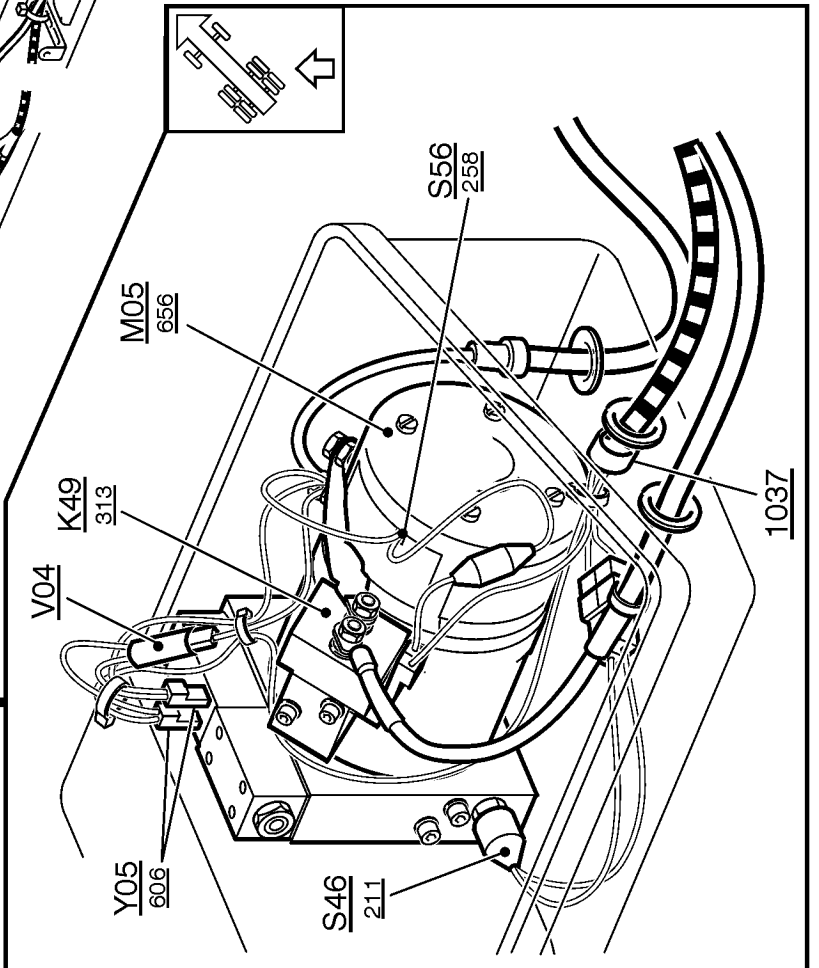
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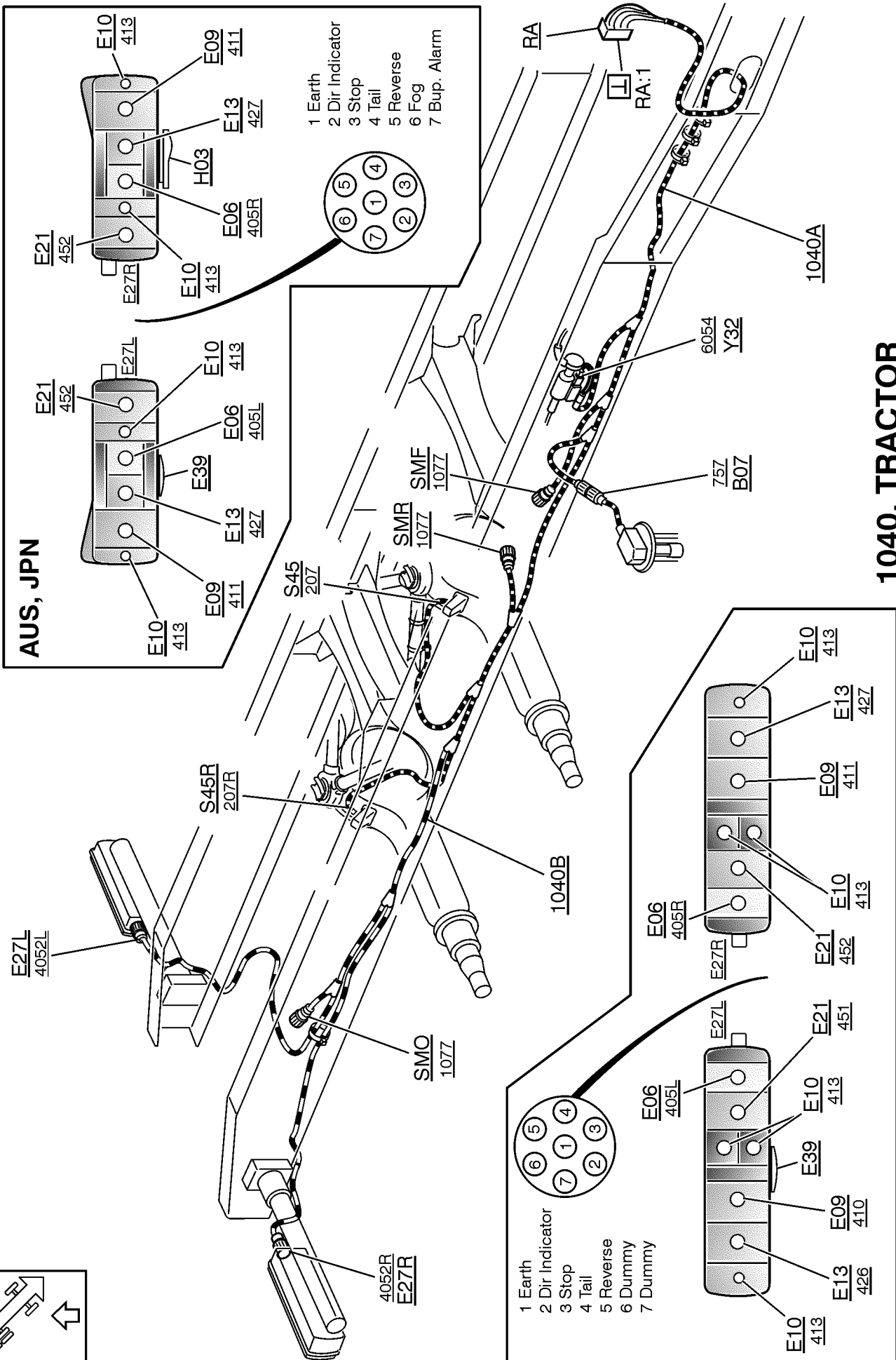
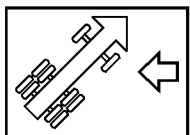


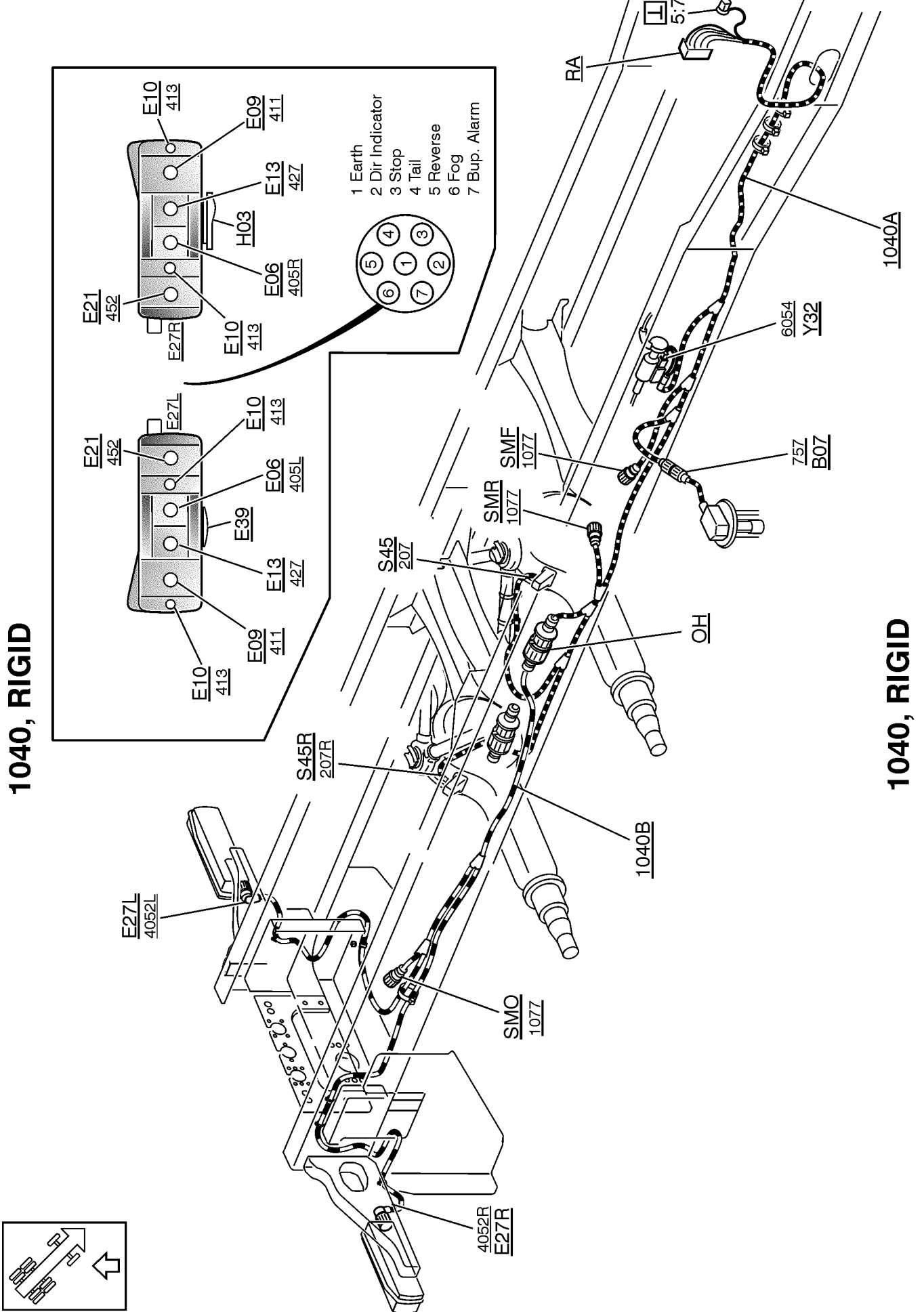
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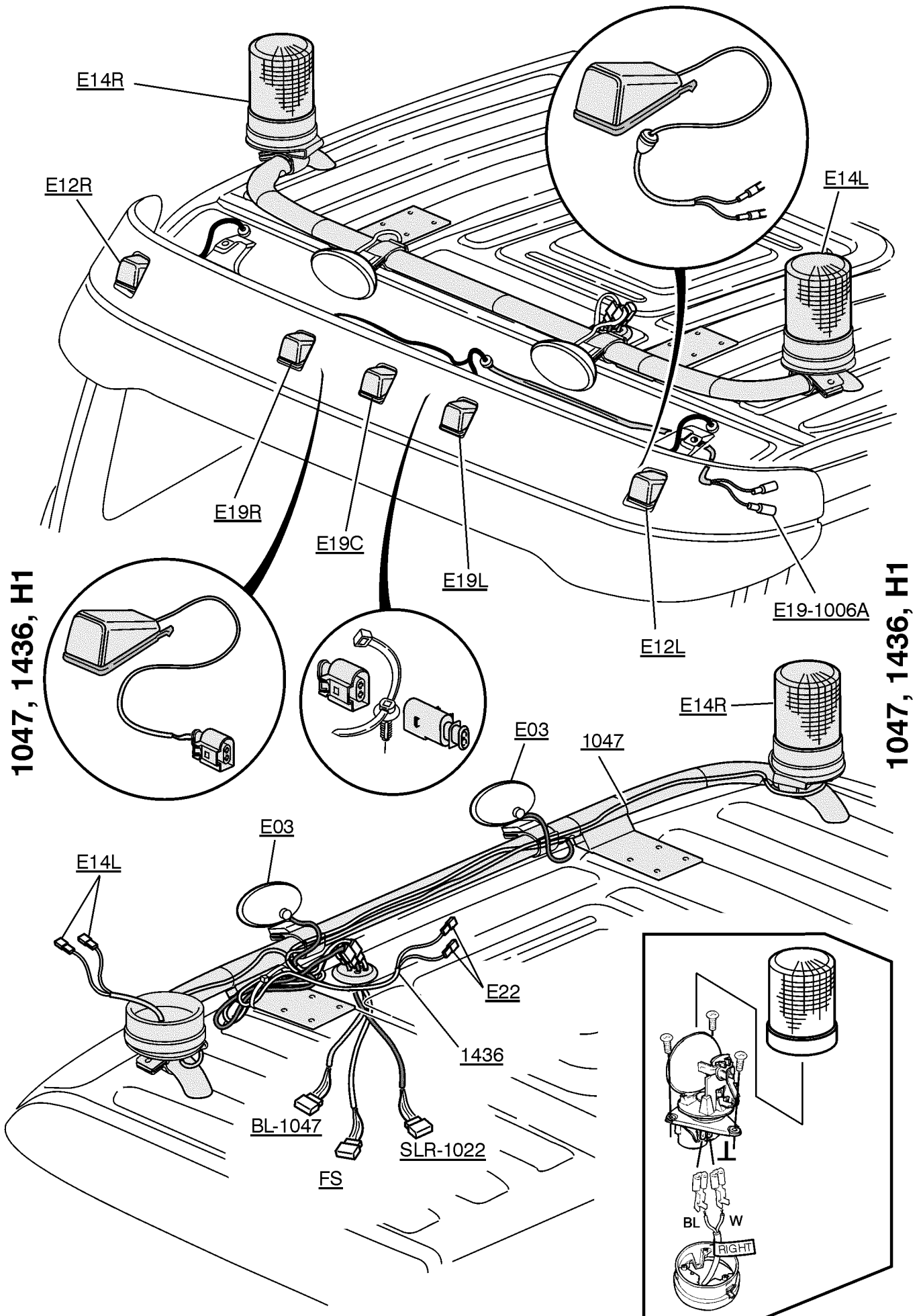


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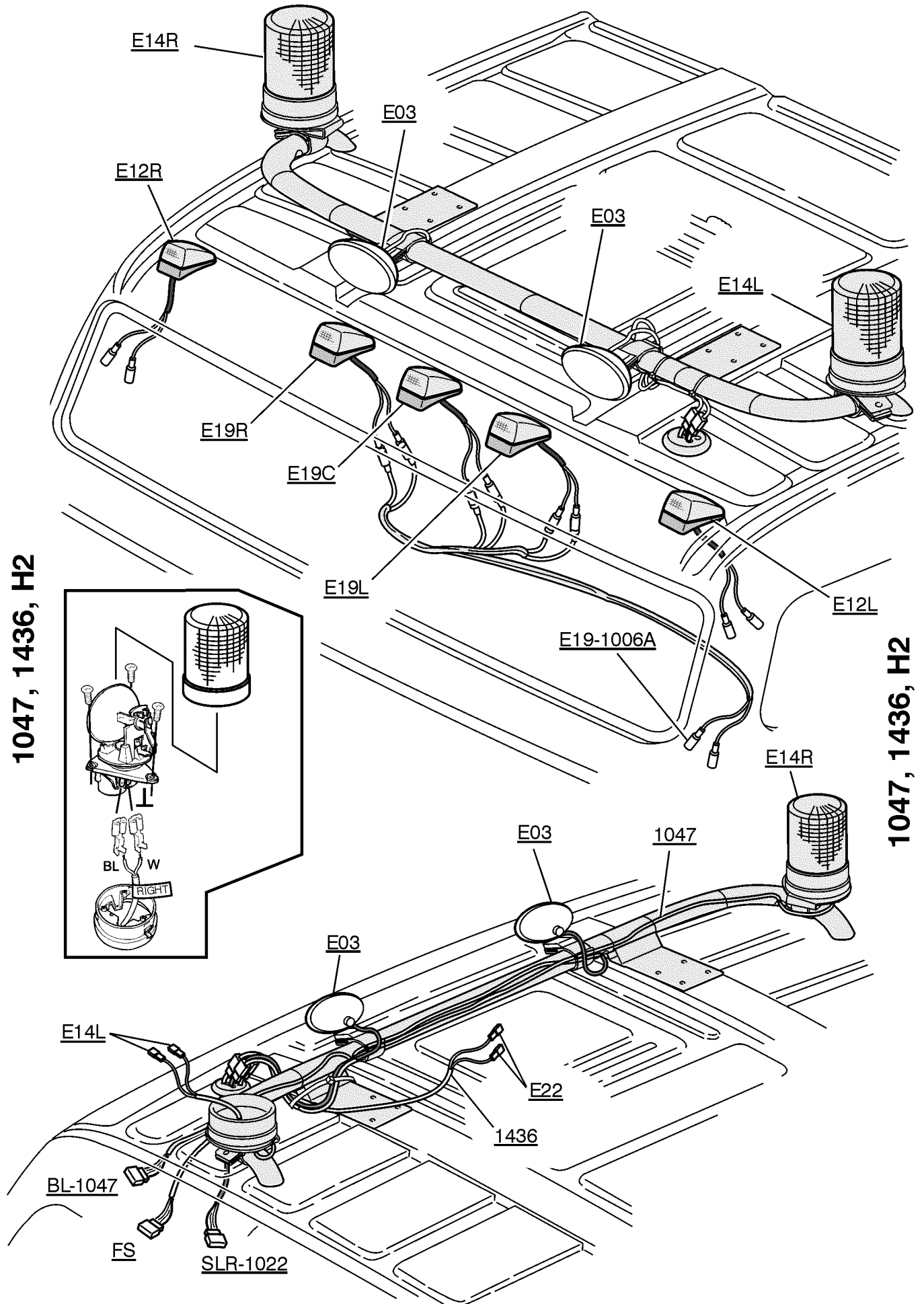




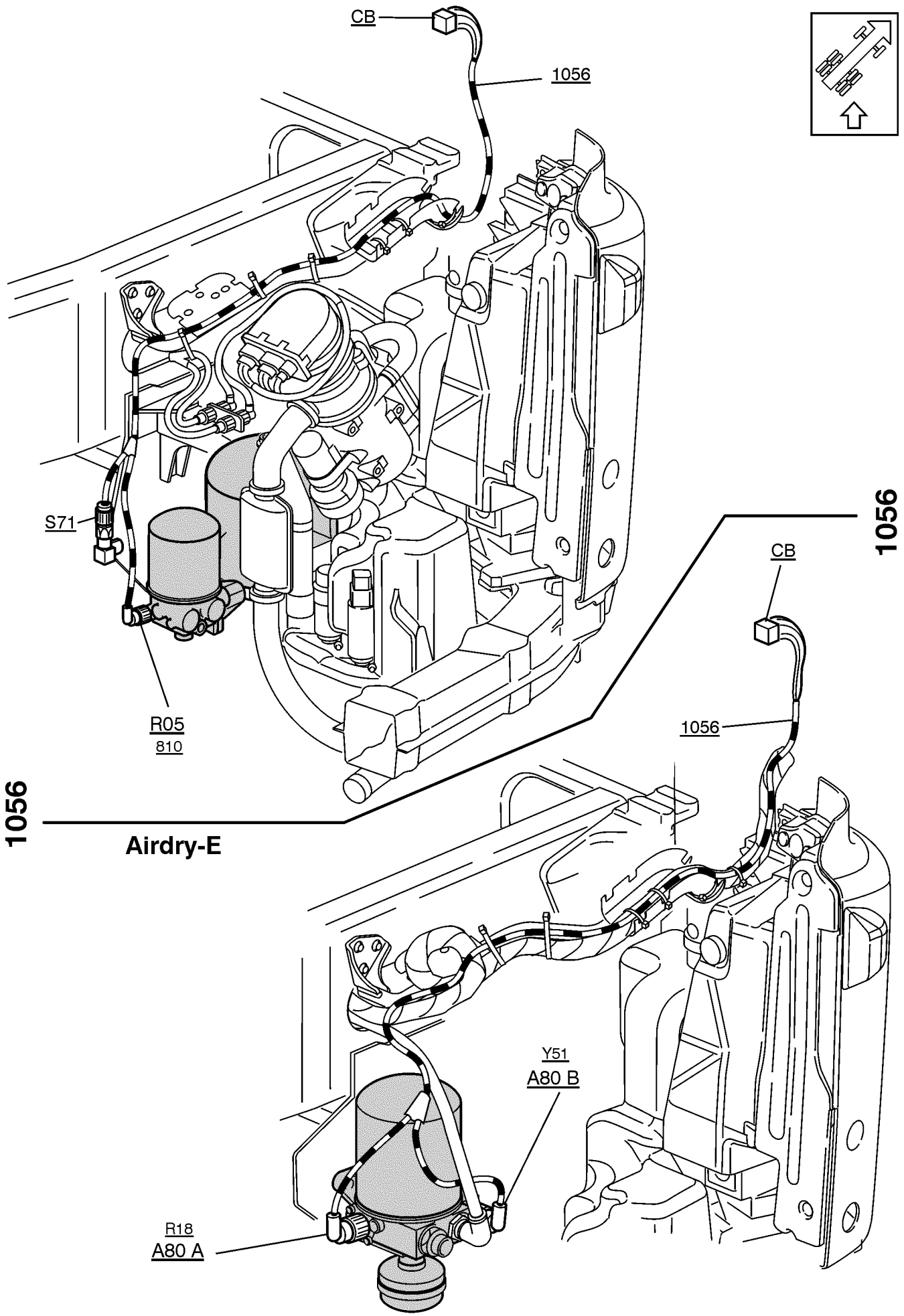


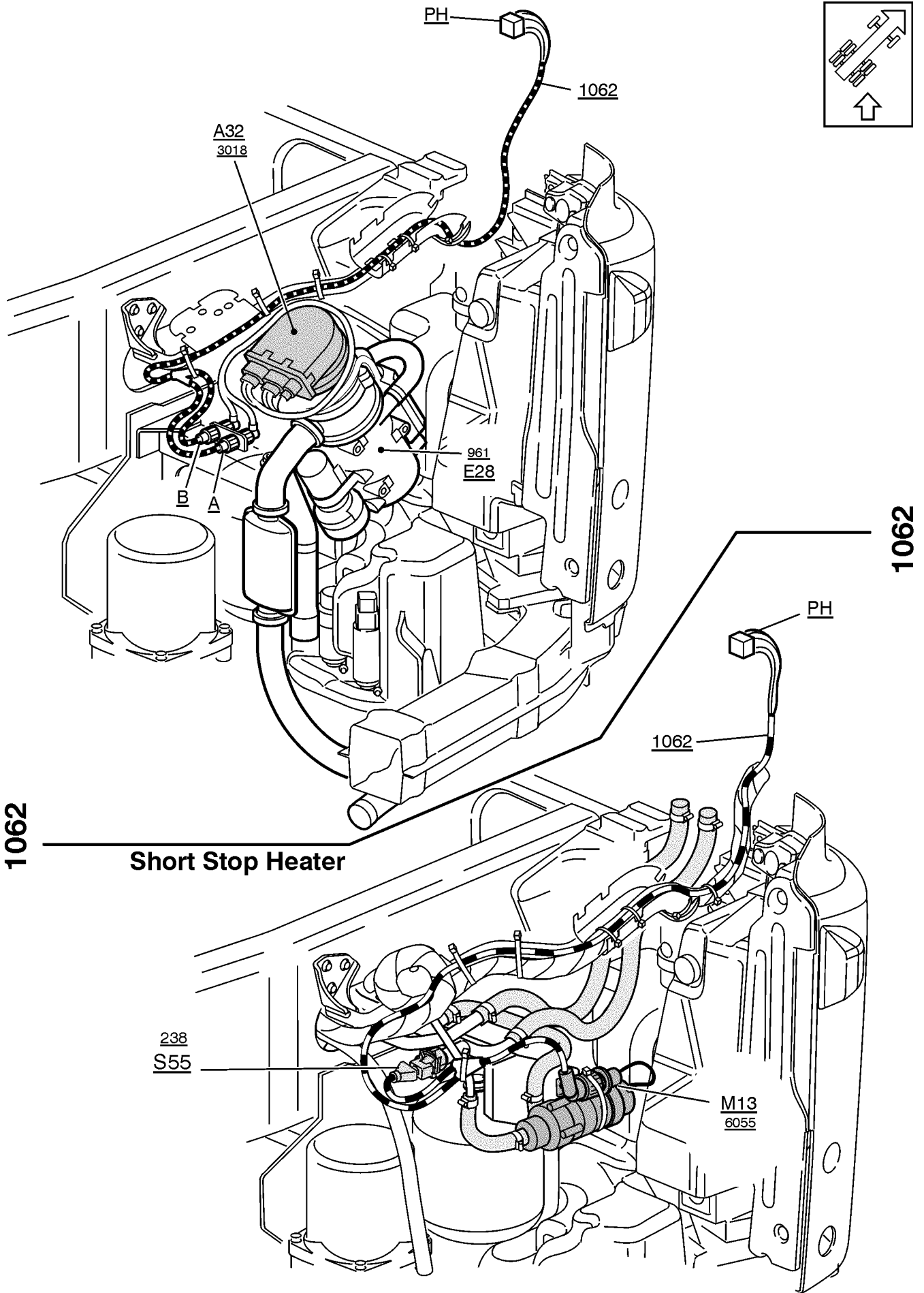
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1047, 1436, H1



1047, 1436, H2

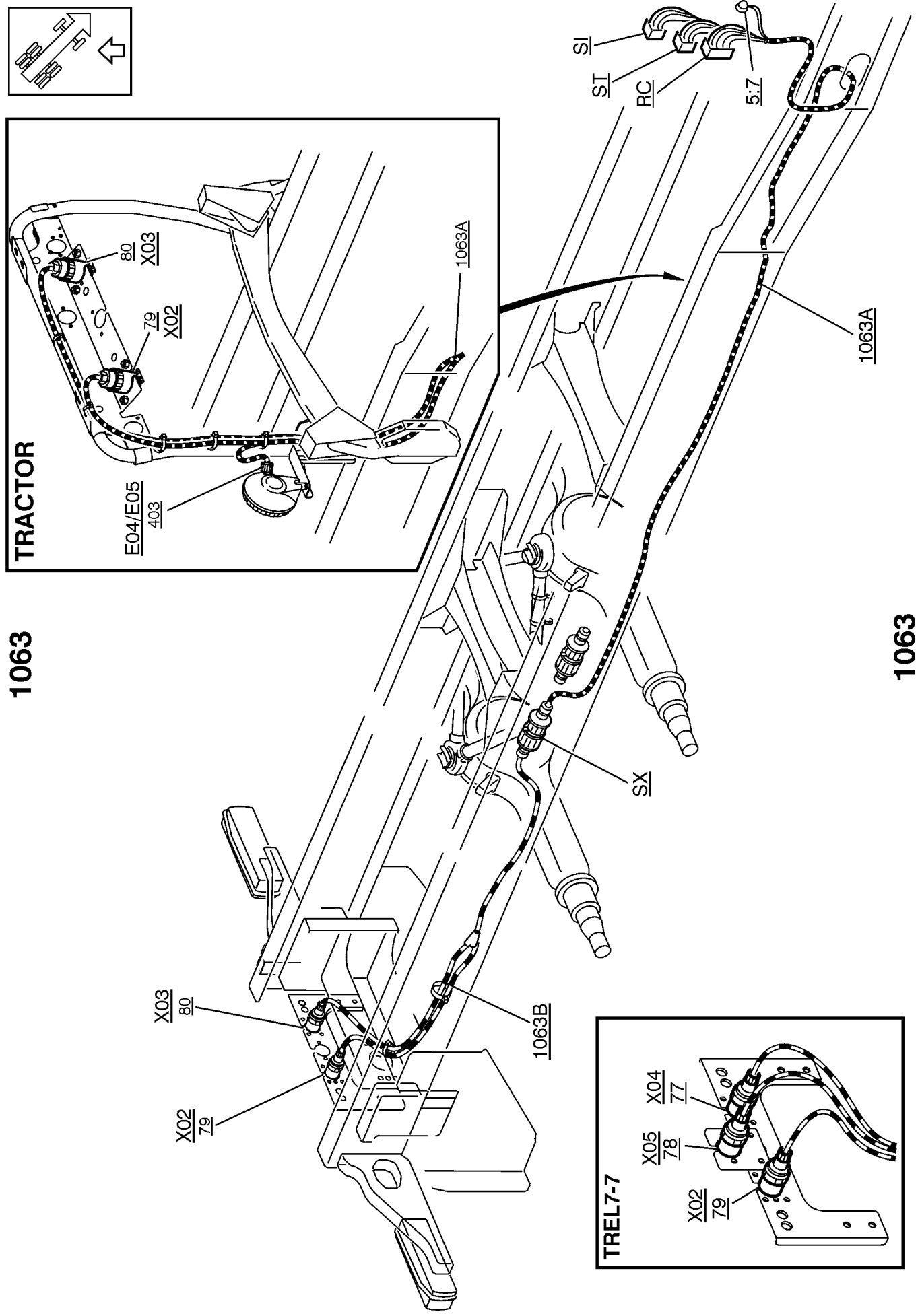


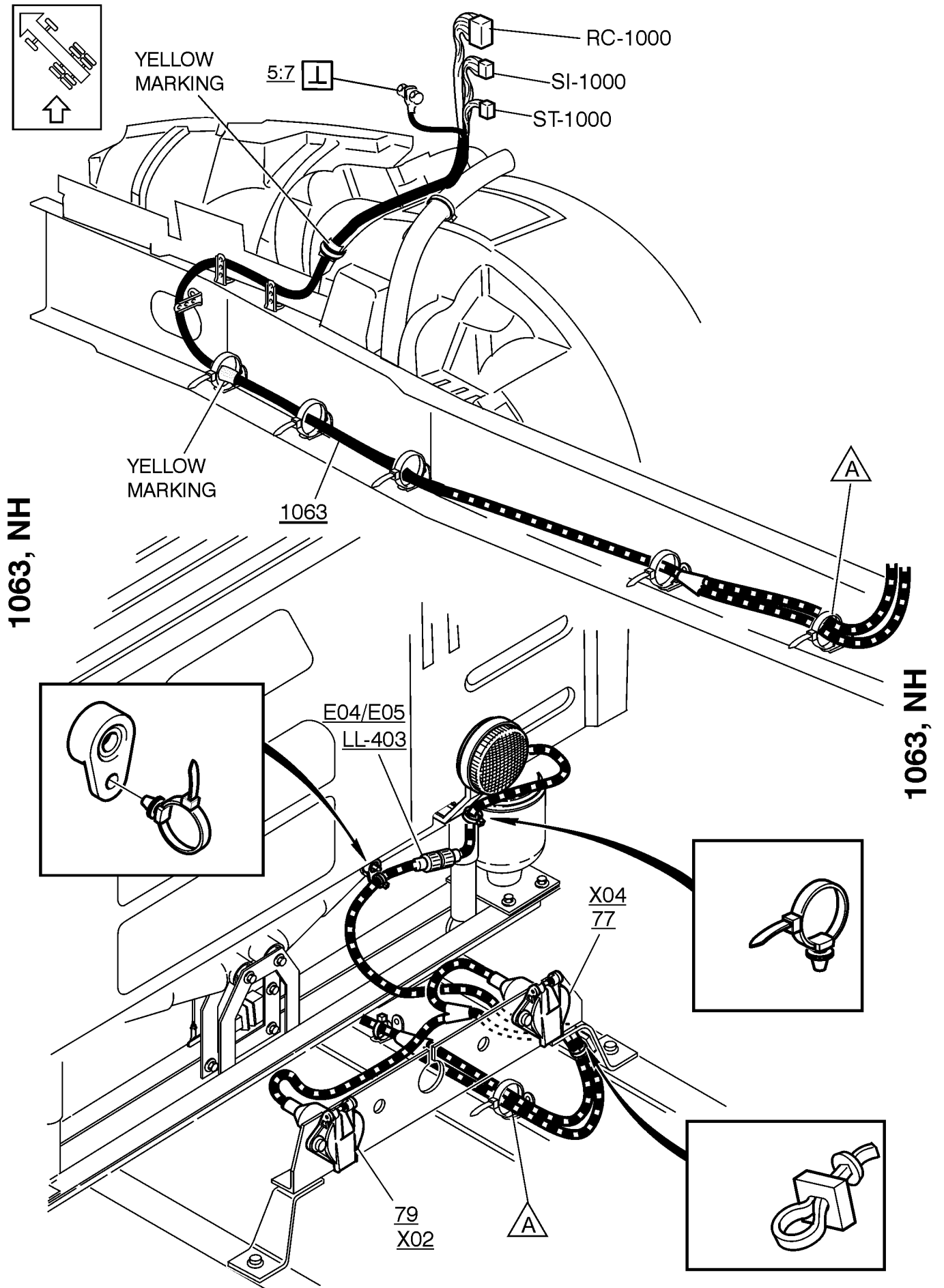


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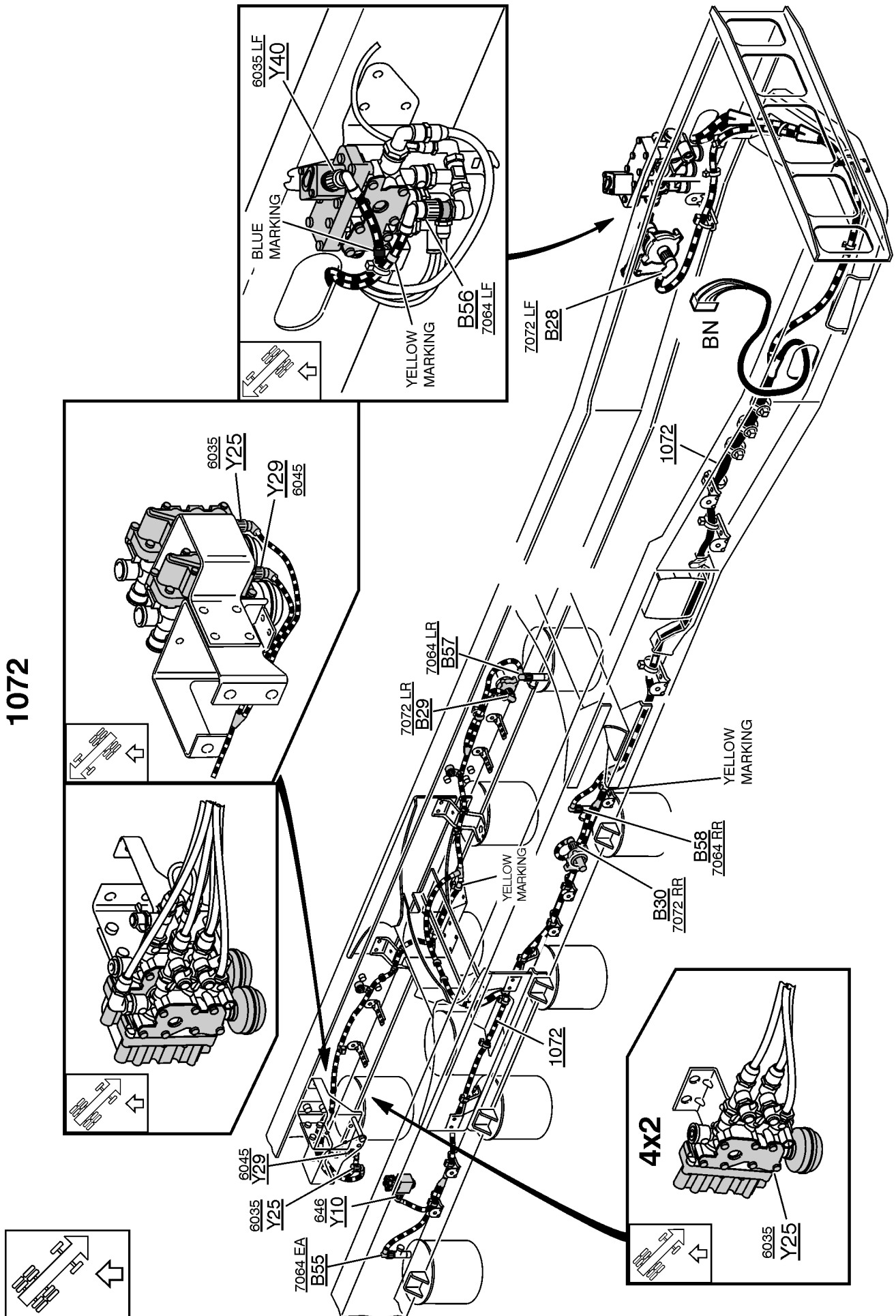
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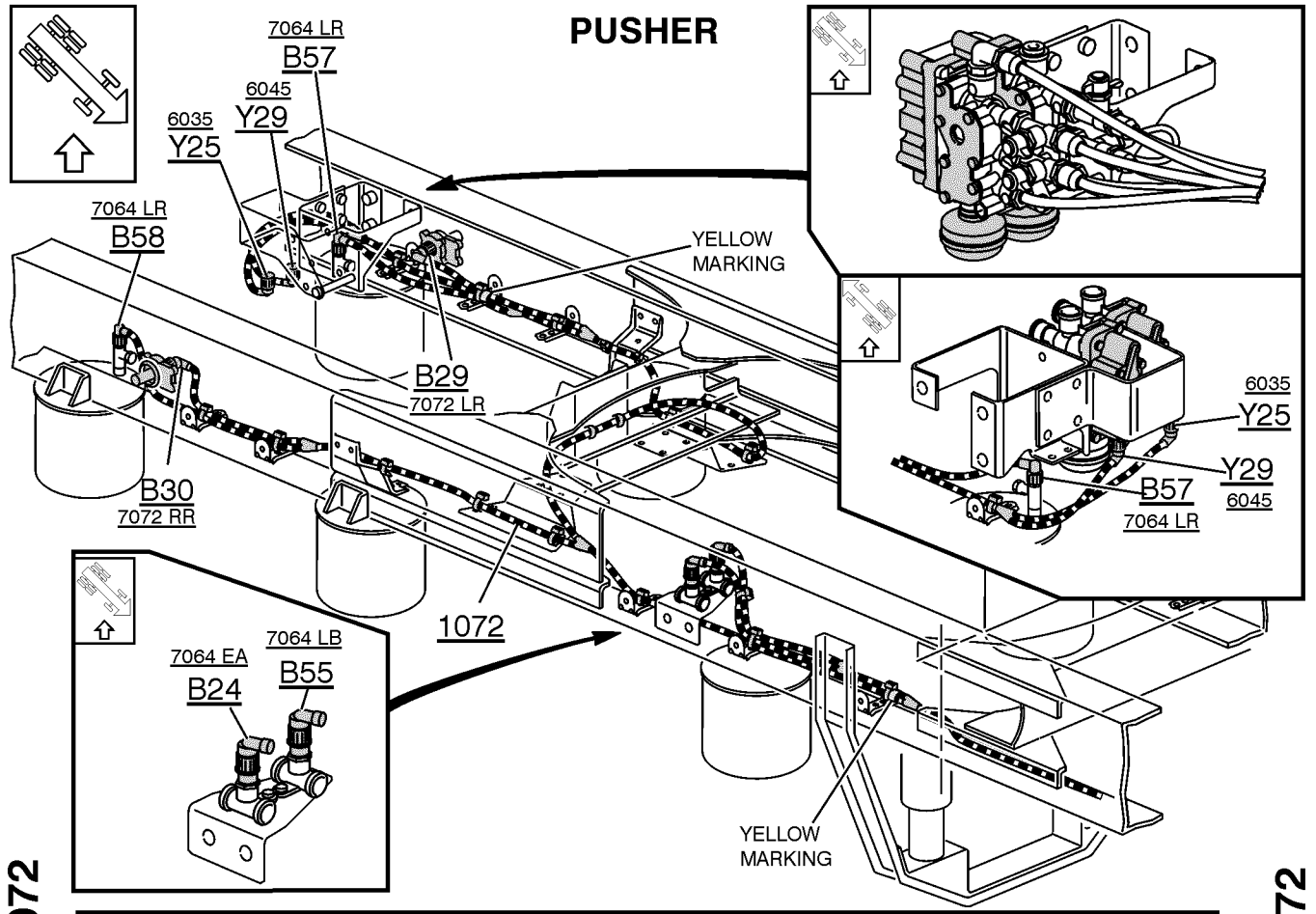




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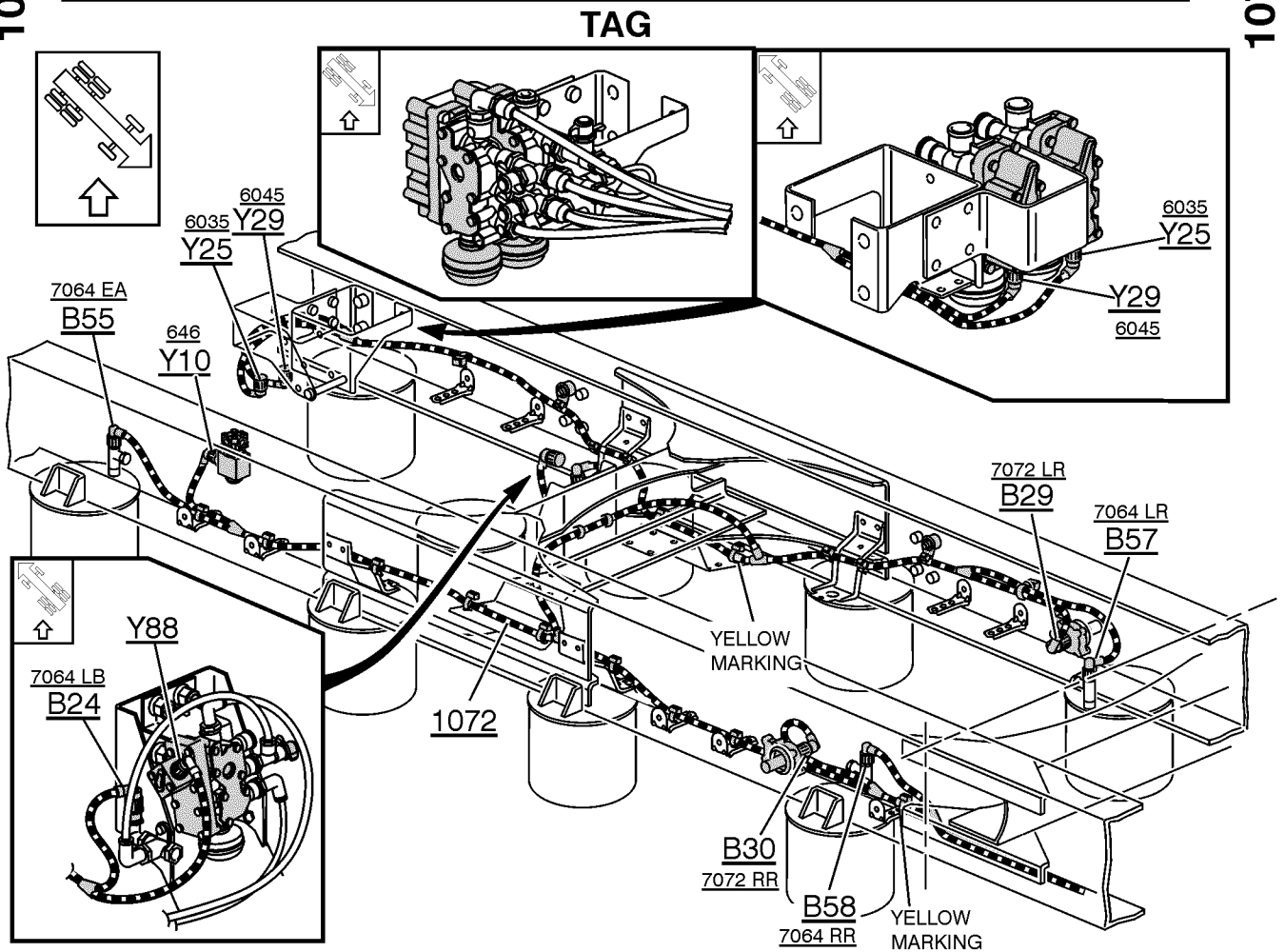
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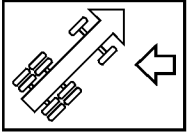




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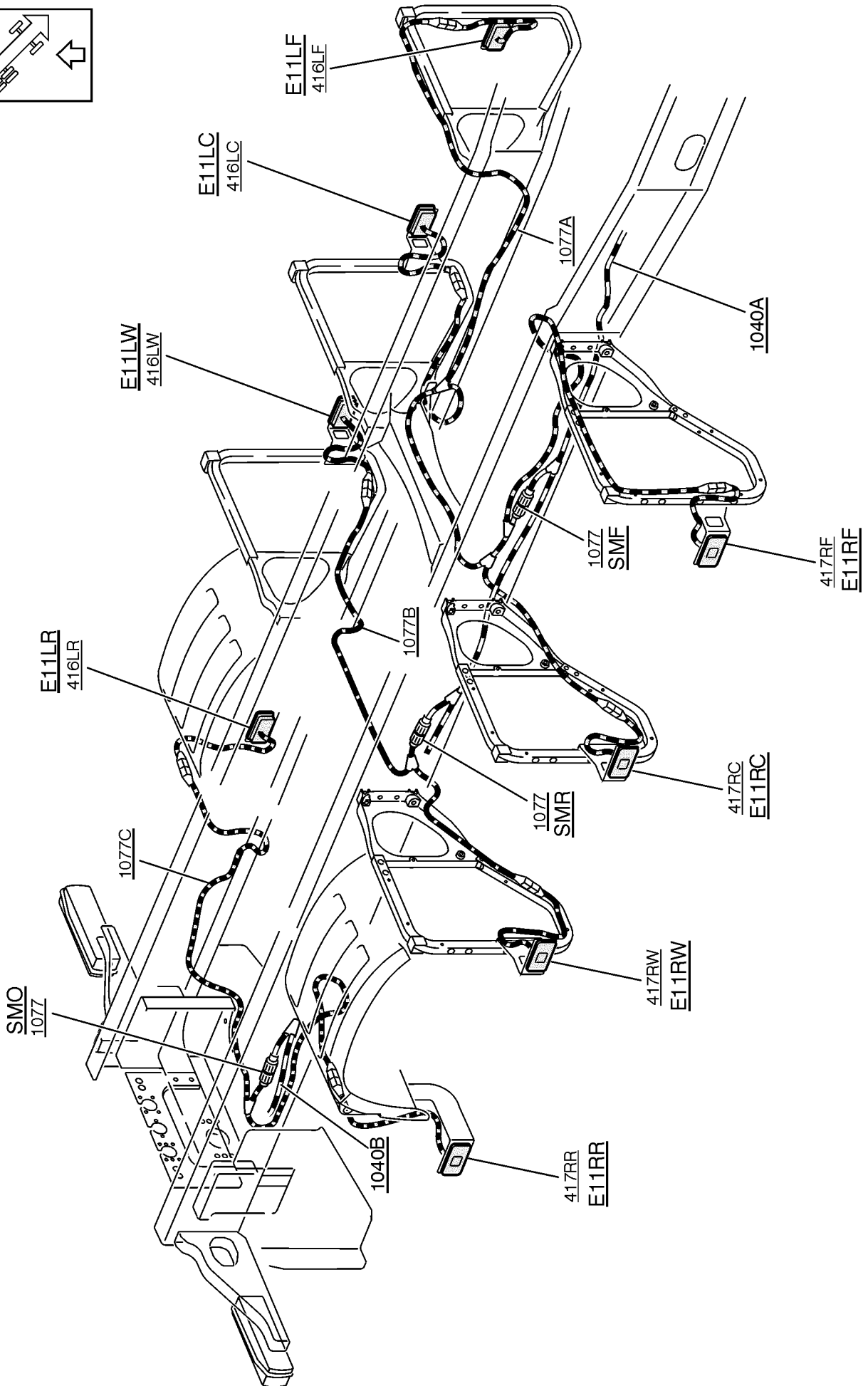
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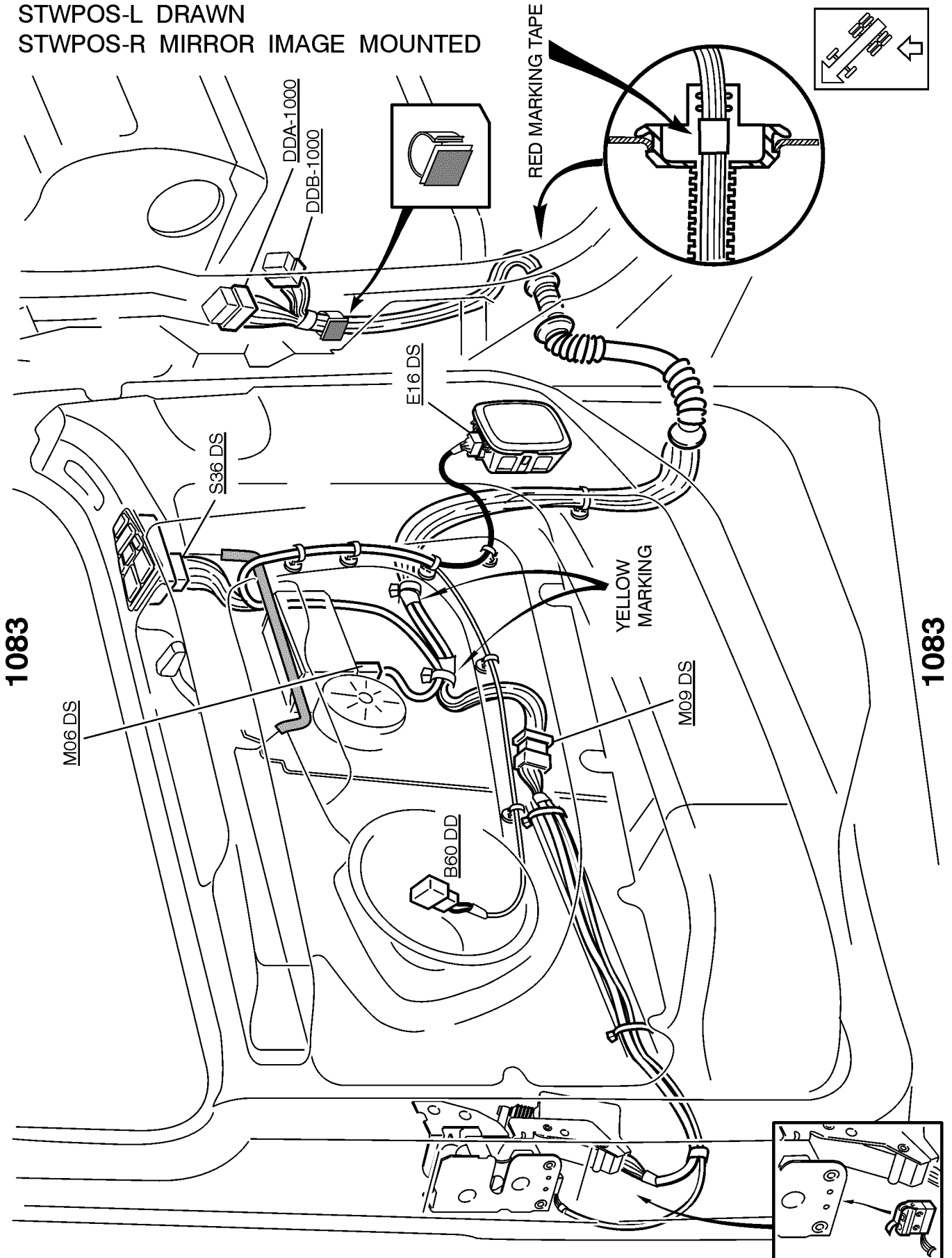


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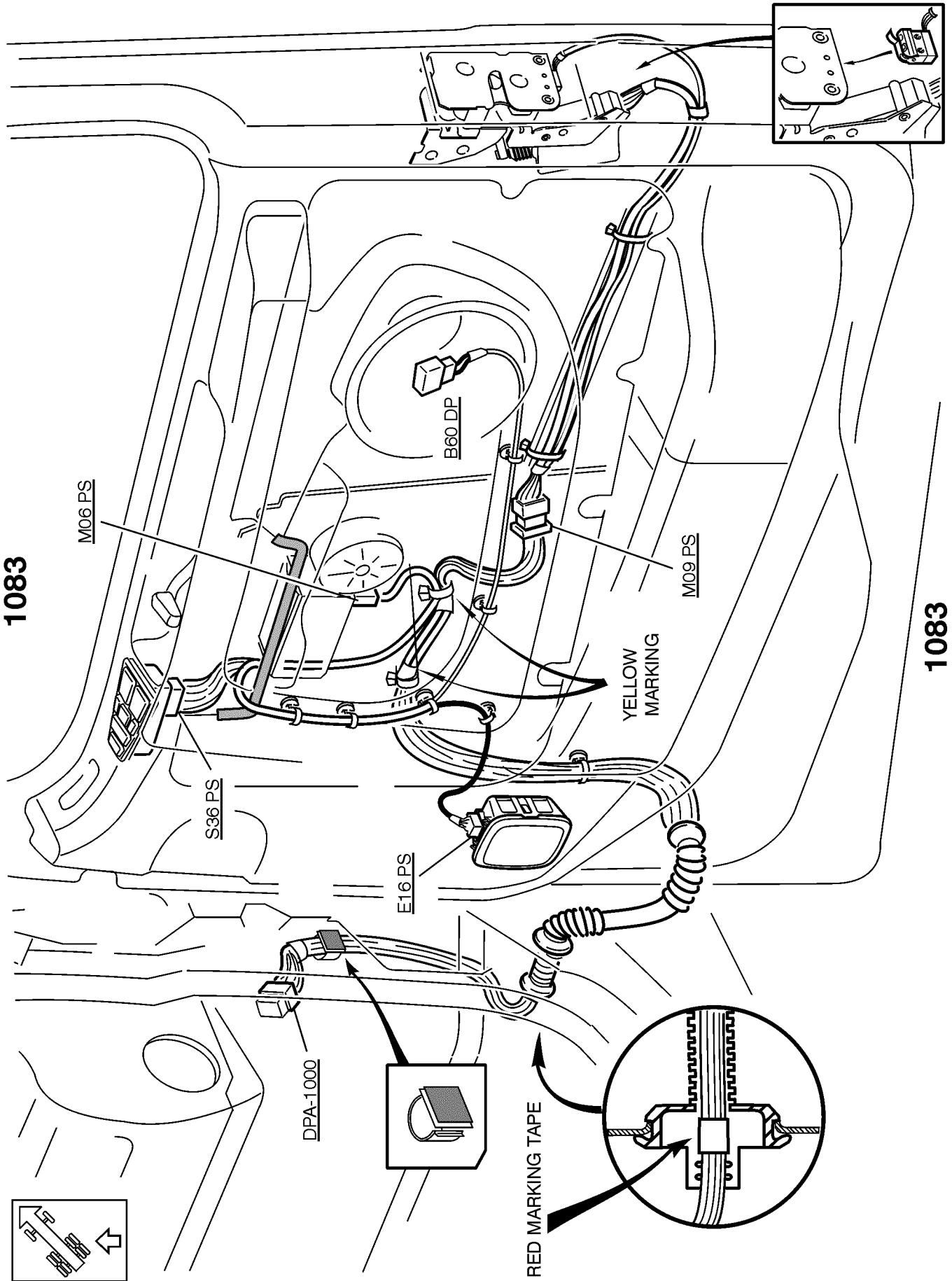
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STWPOS-R MIRROR IMAGE MOUNTED



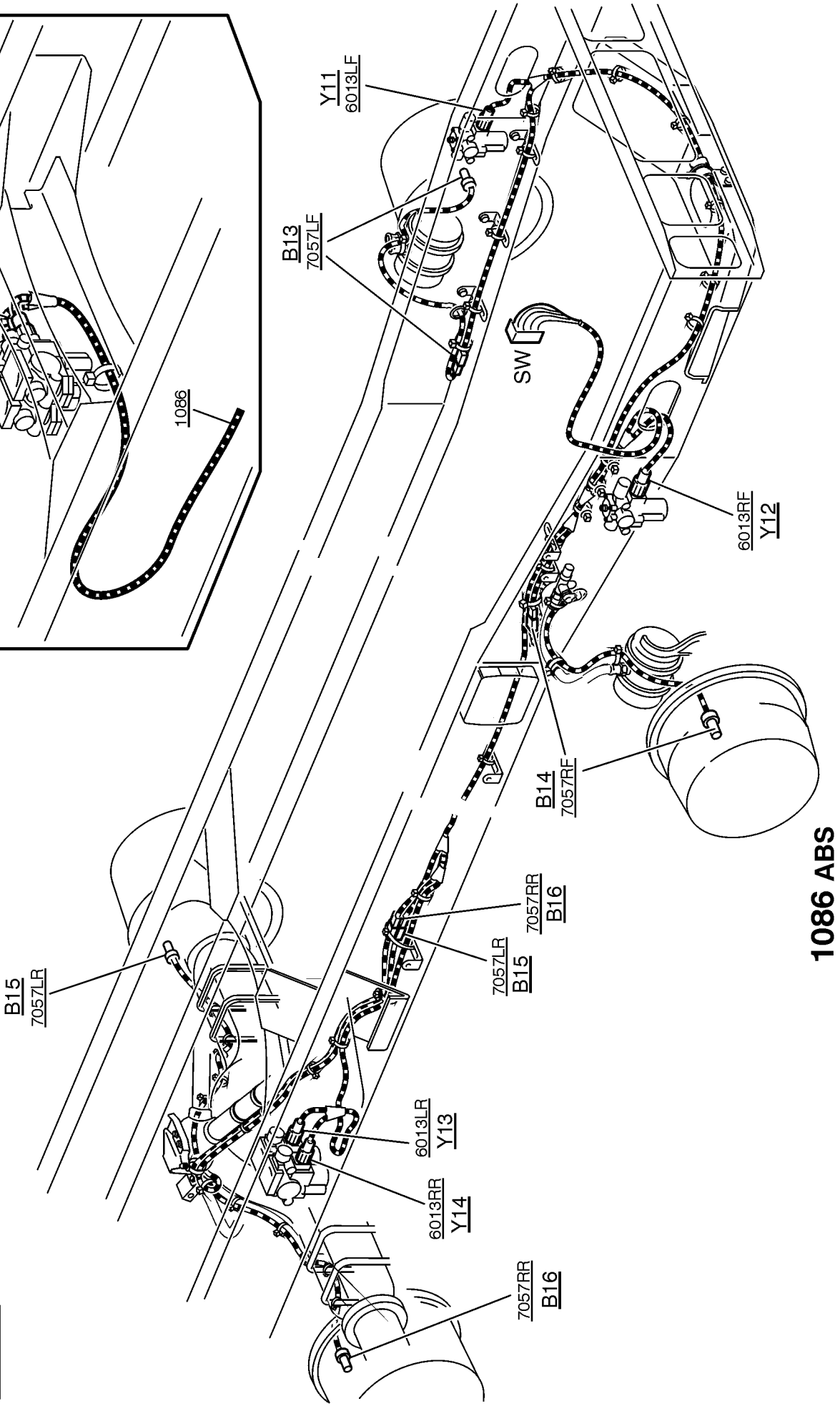
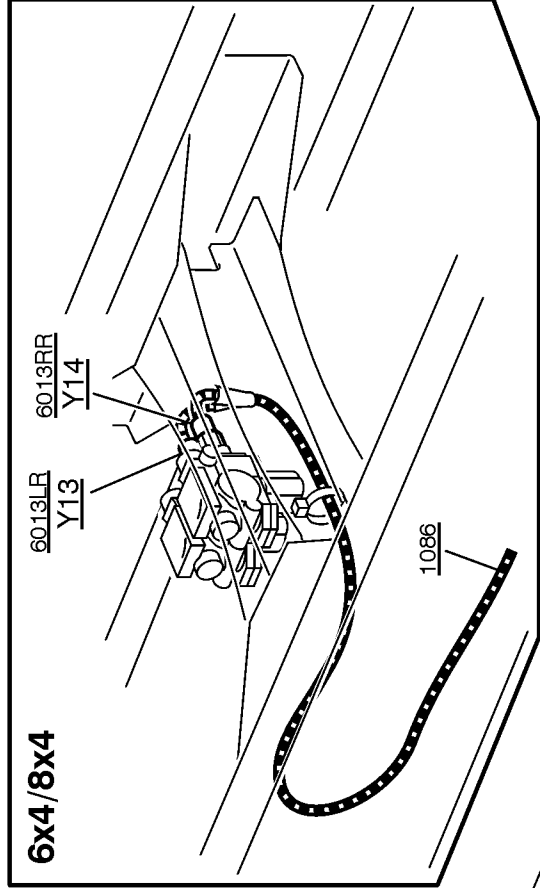
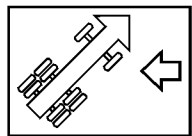
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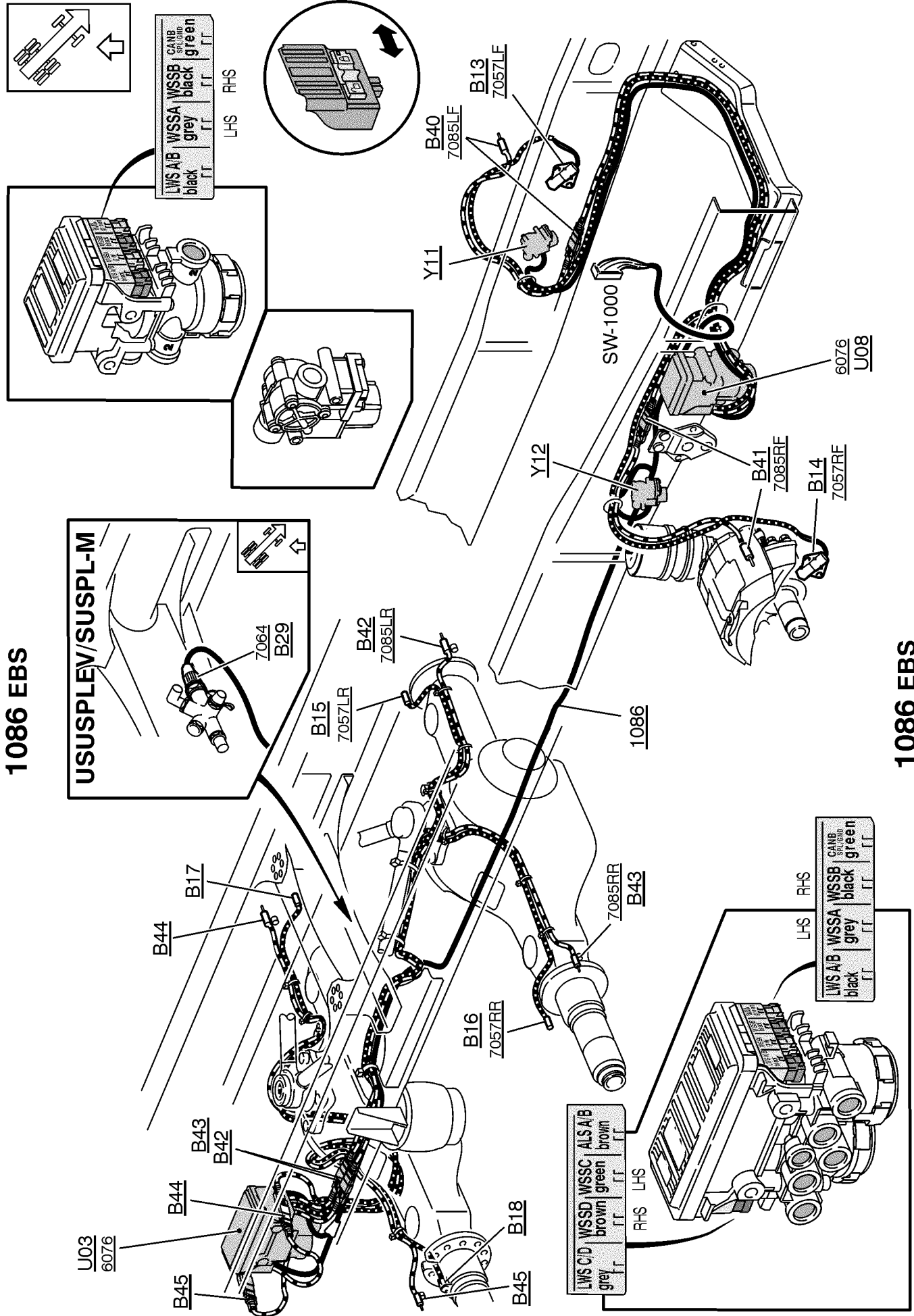
STWPOS-L DRAWN
STWPOS-R MIRROR IMAGE MOUNTED

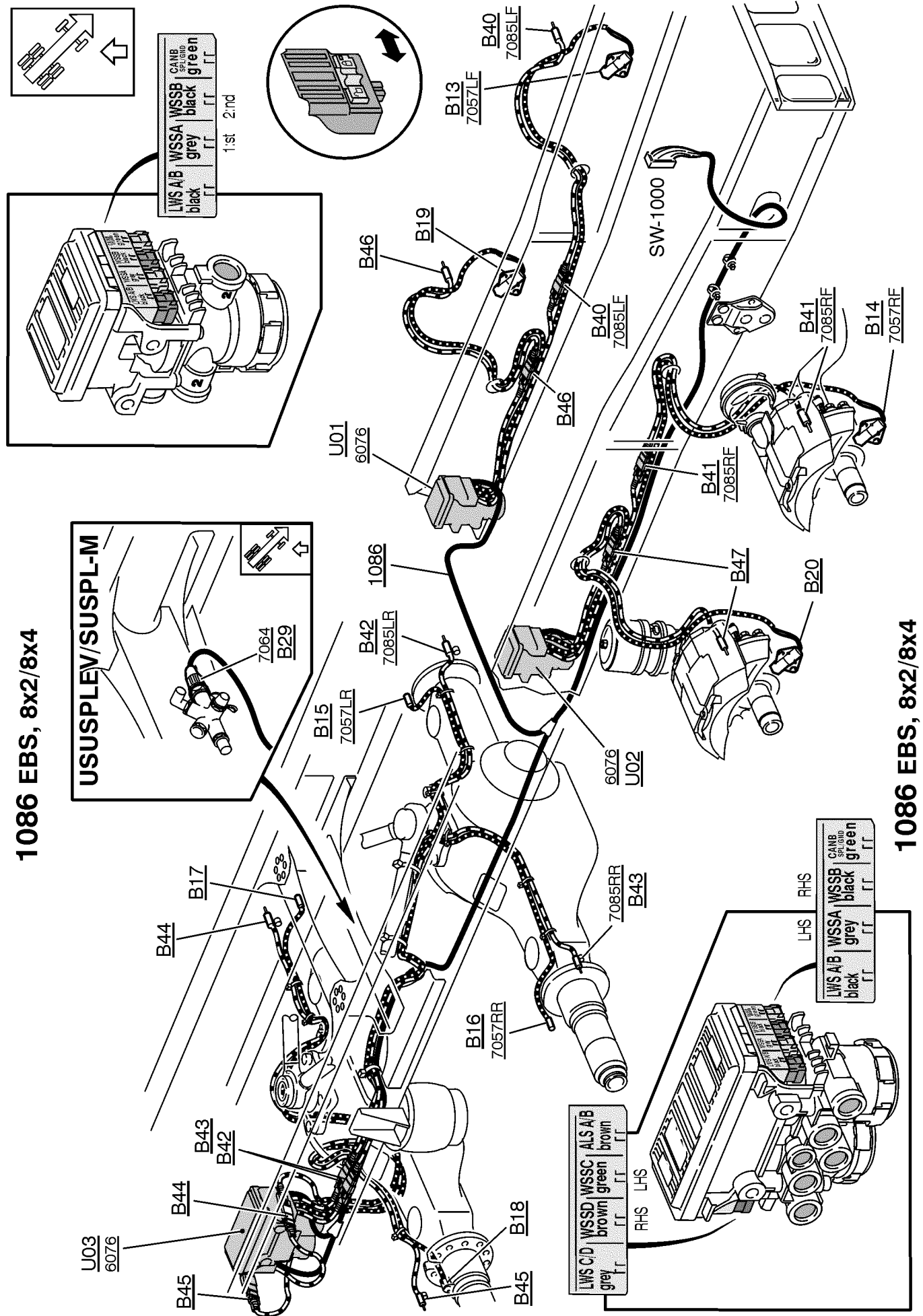


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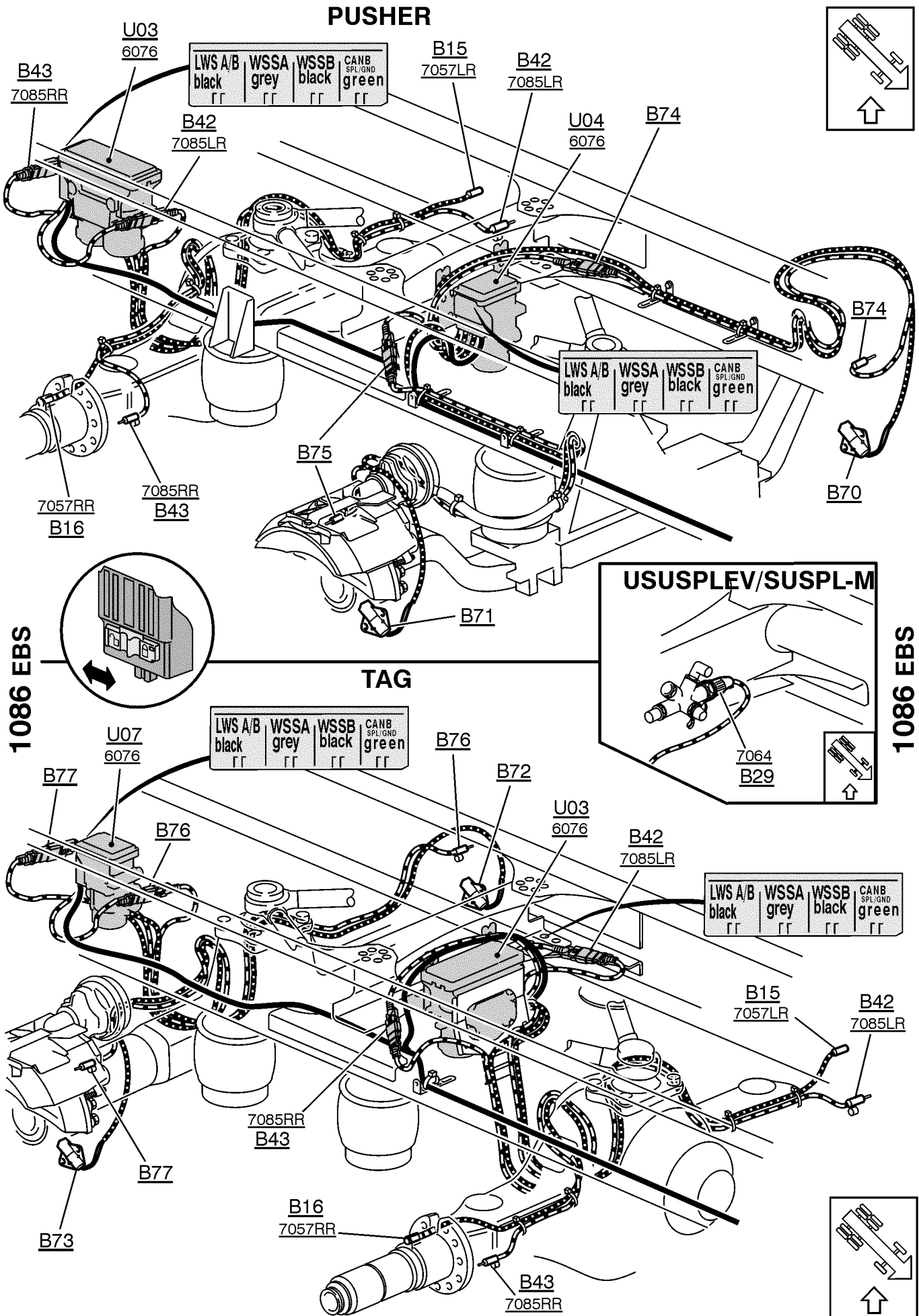
1086 ABS

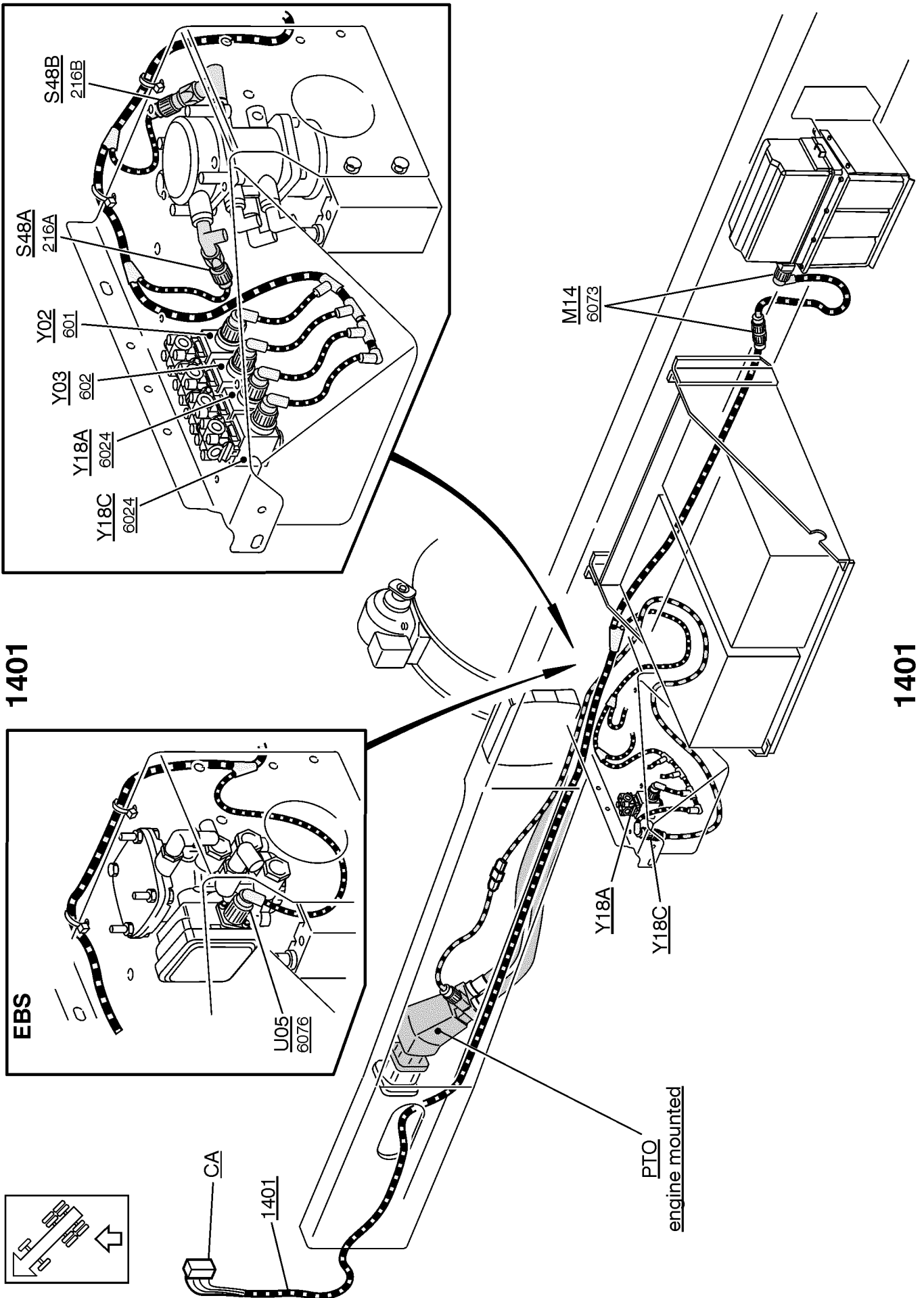


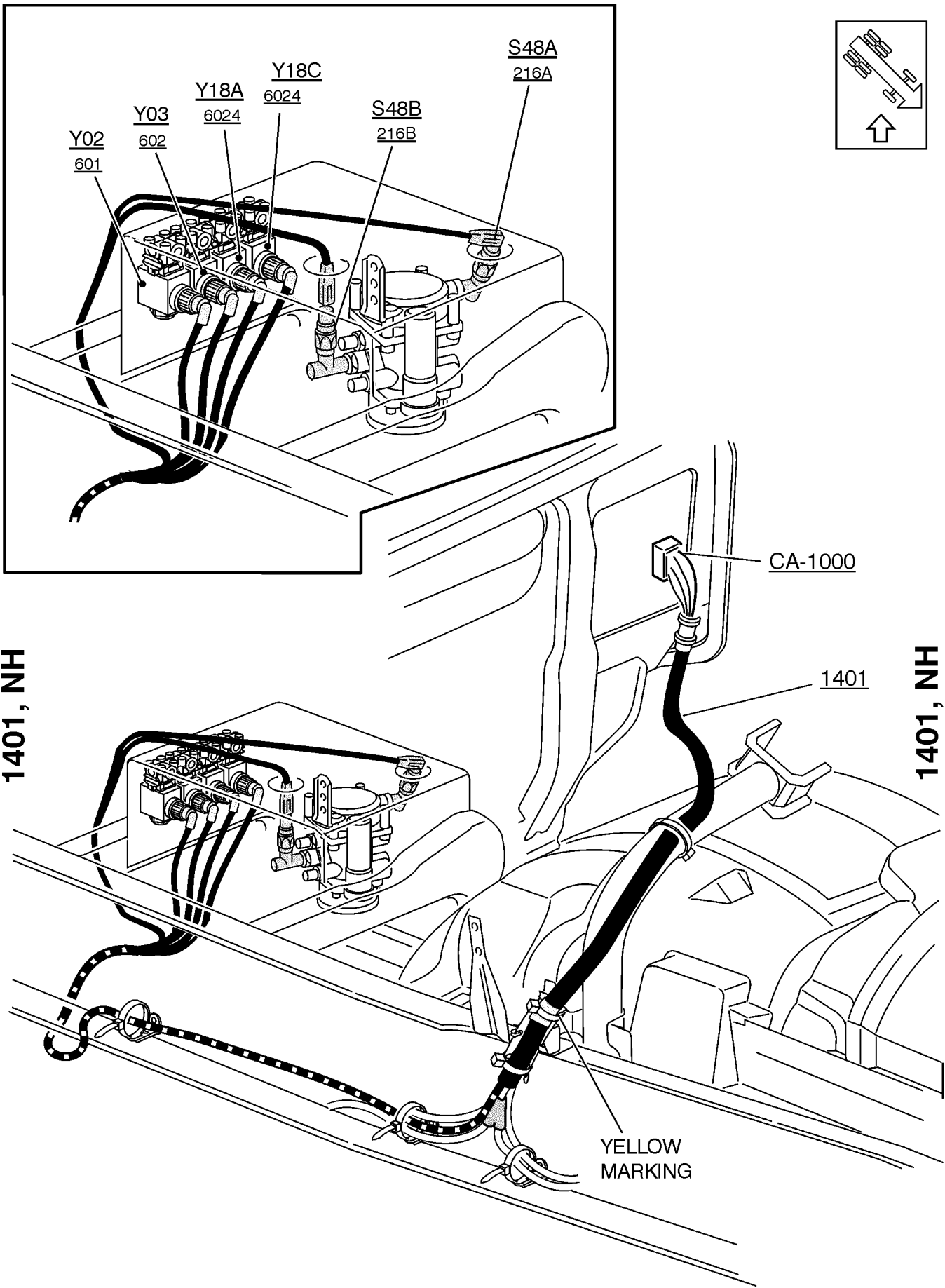


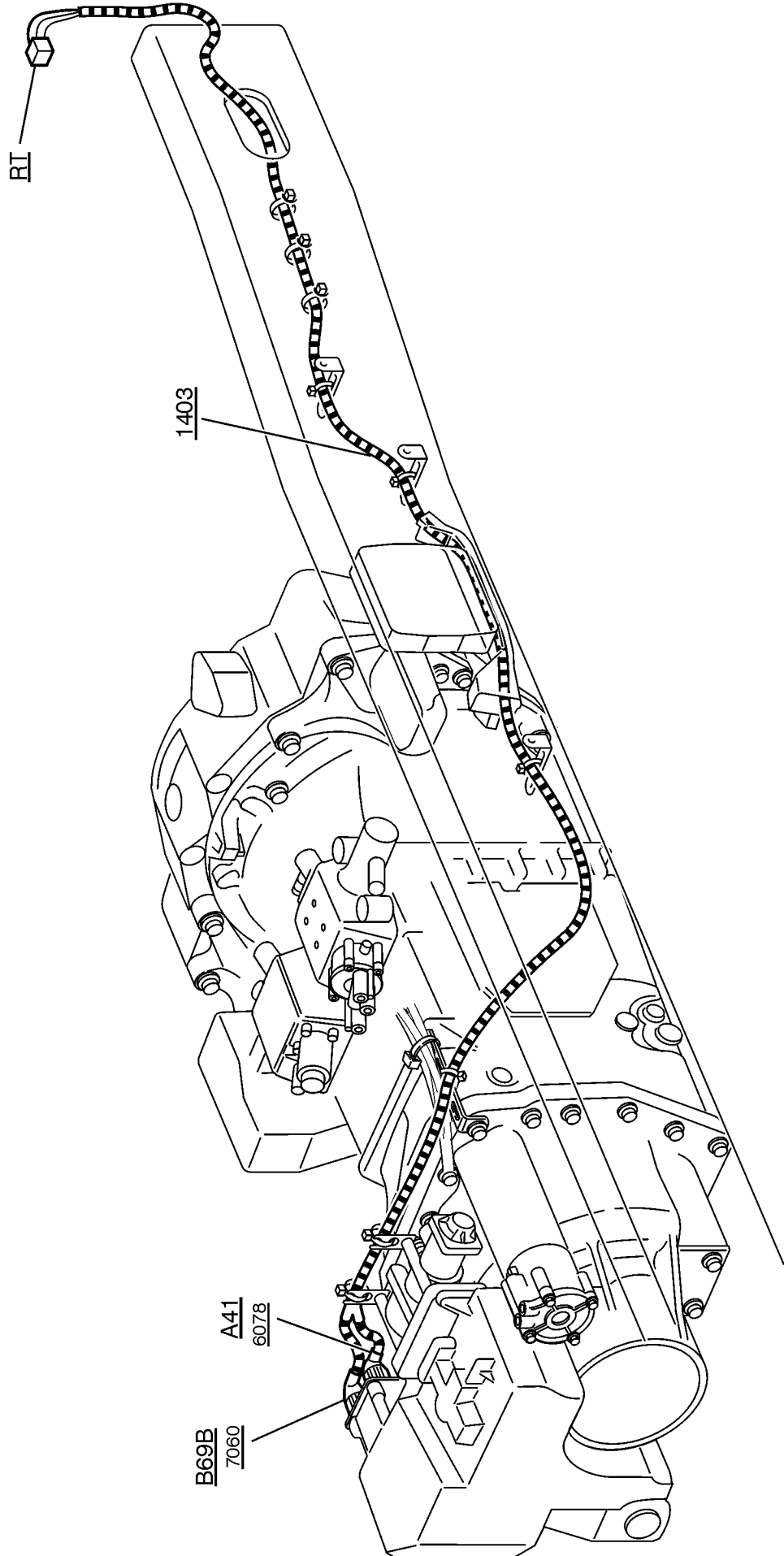
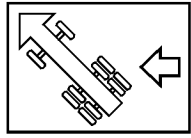
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1086 EBS, 8x2/8x4



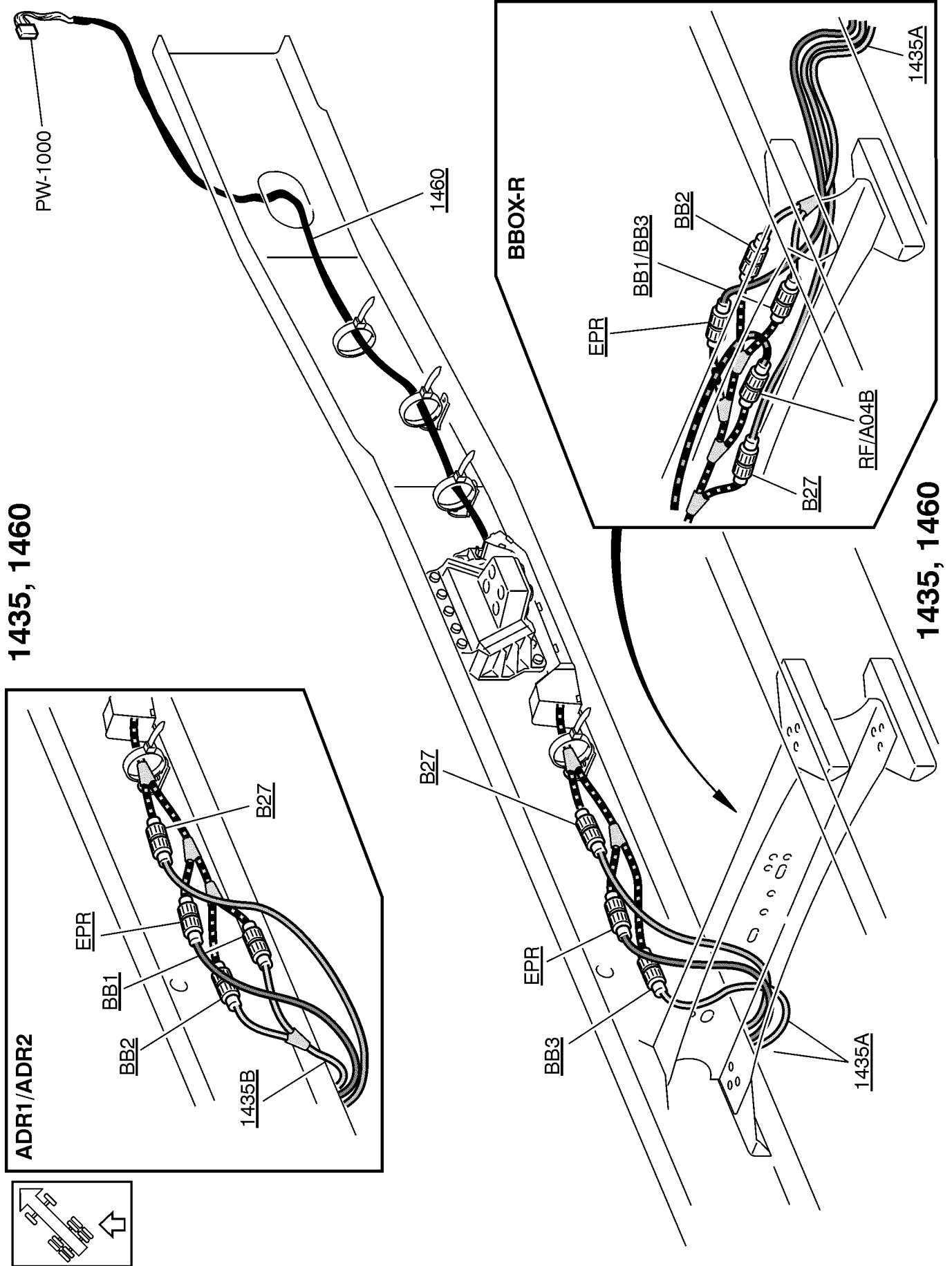






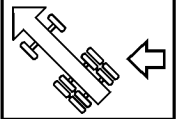
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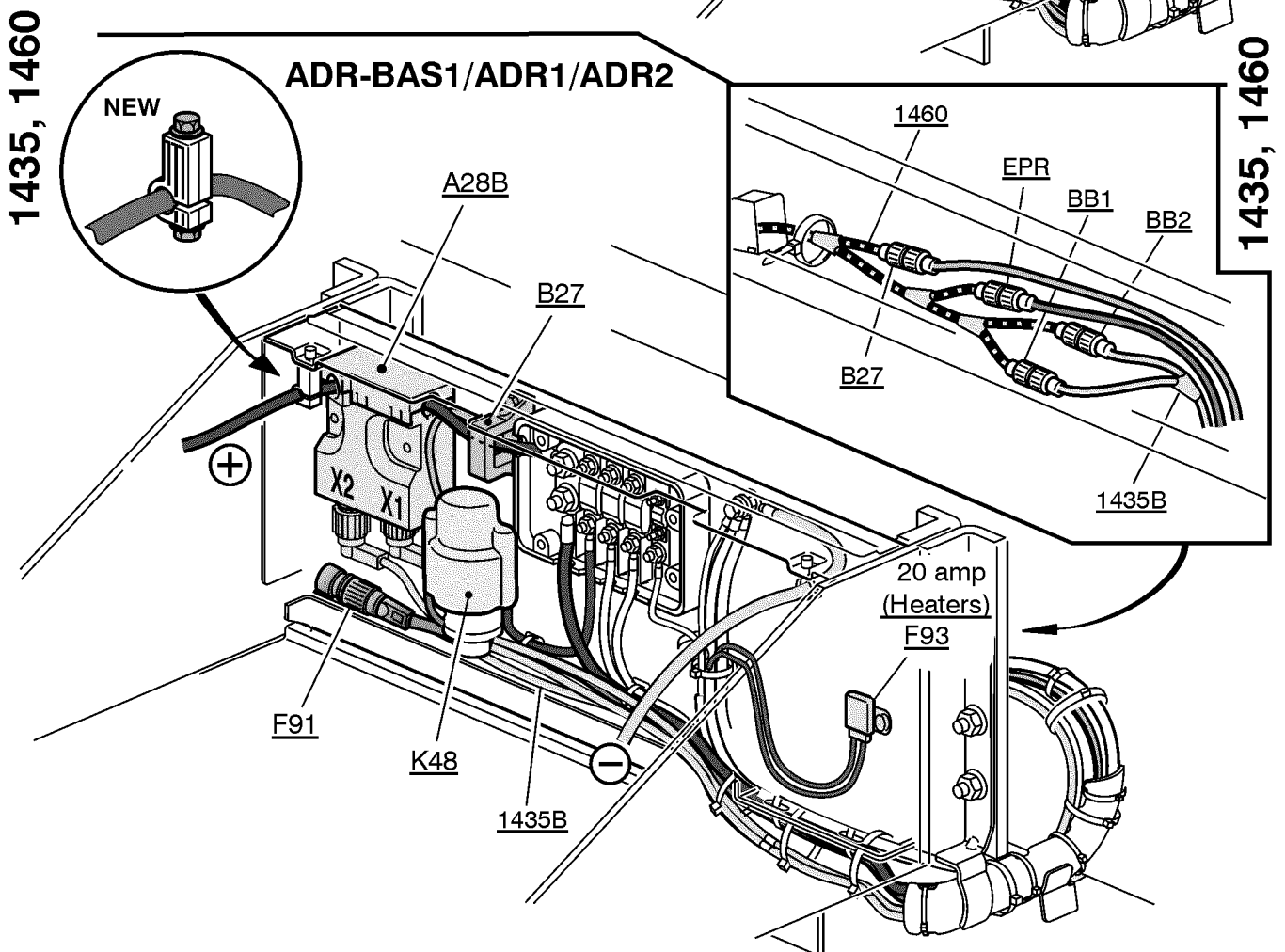
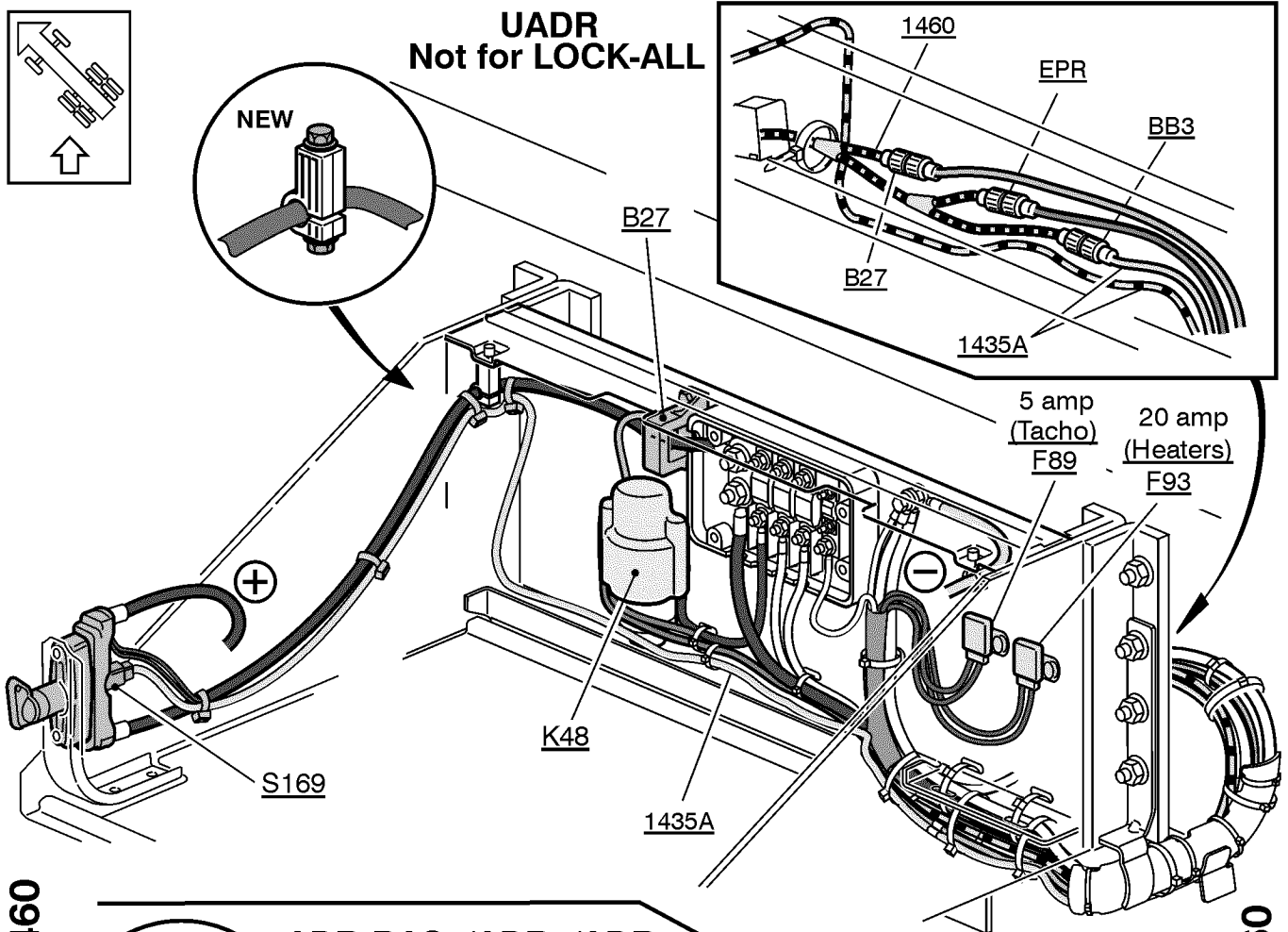
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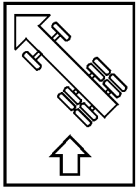


1435, 1460

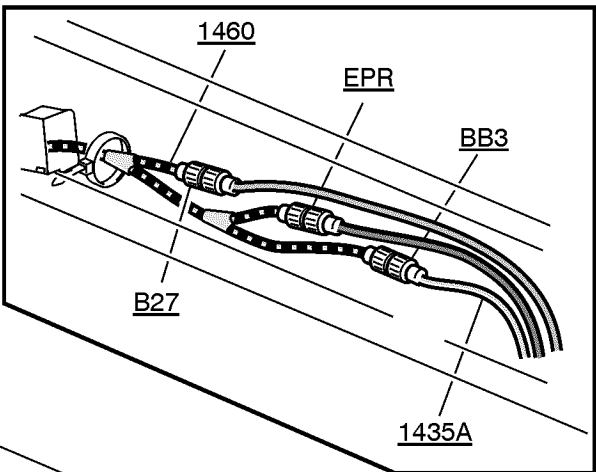
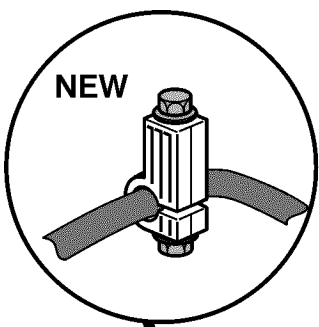
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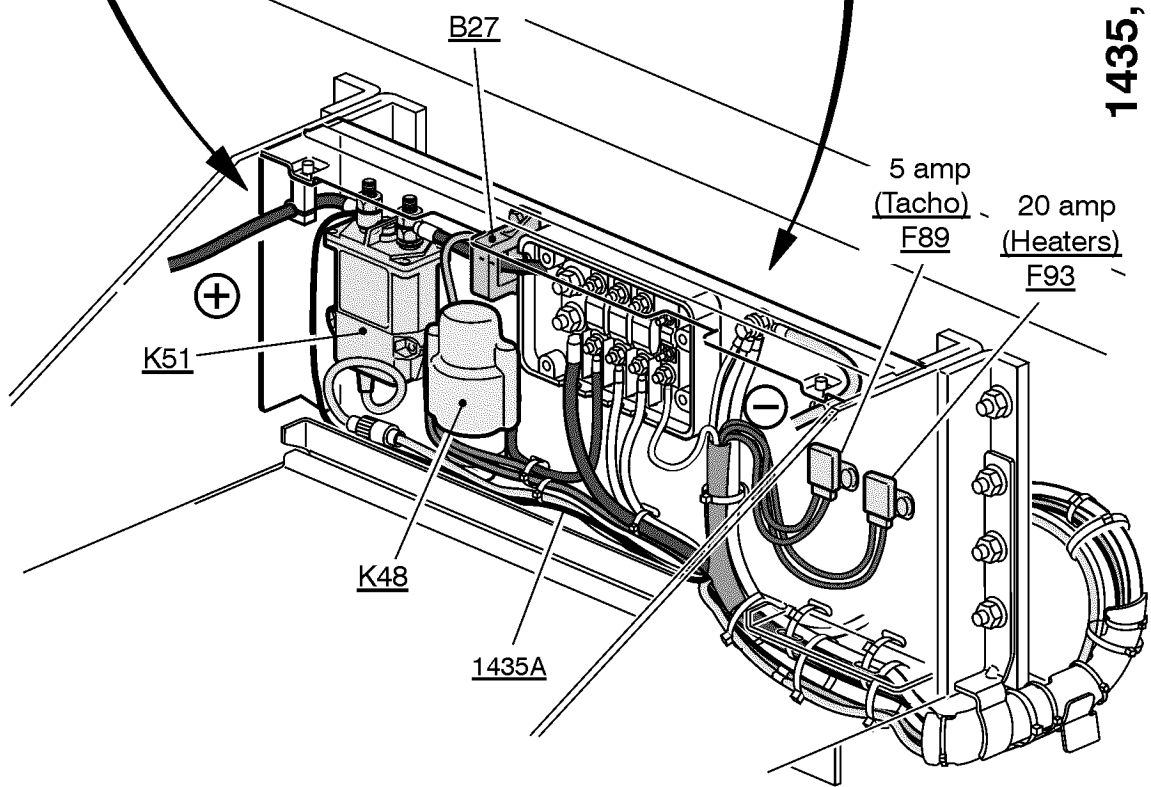


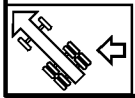
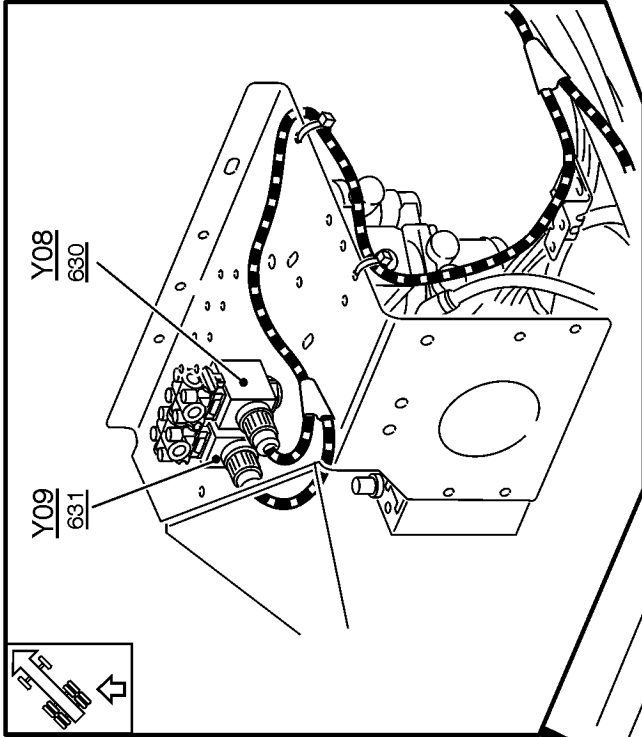
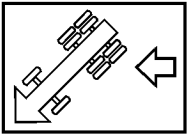
MAINSWI, LOCK-ALL



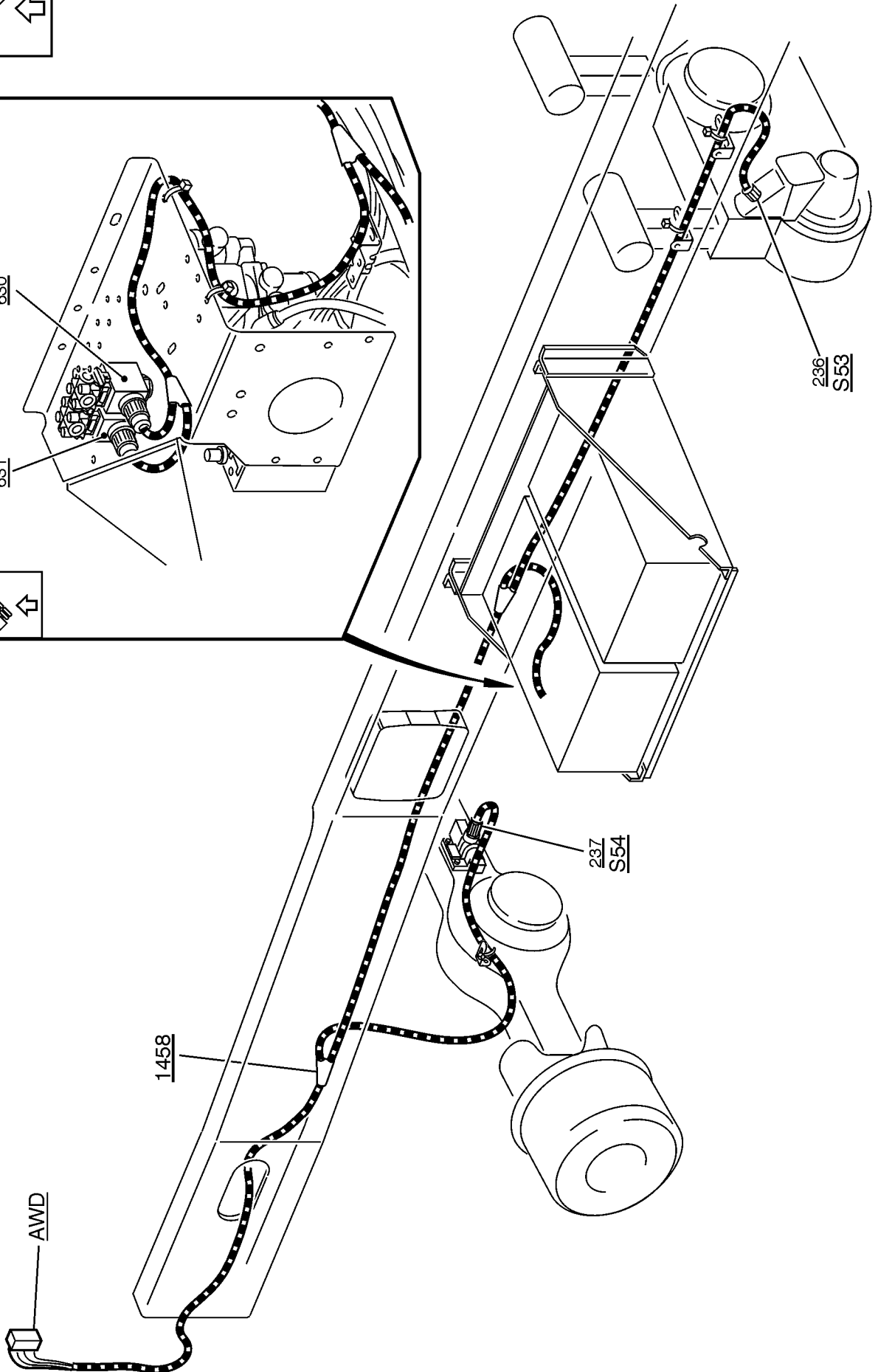
1435, 1460

1435, 1460

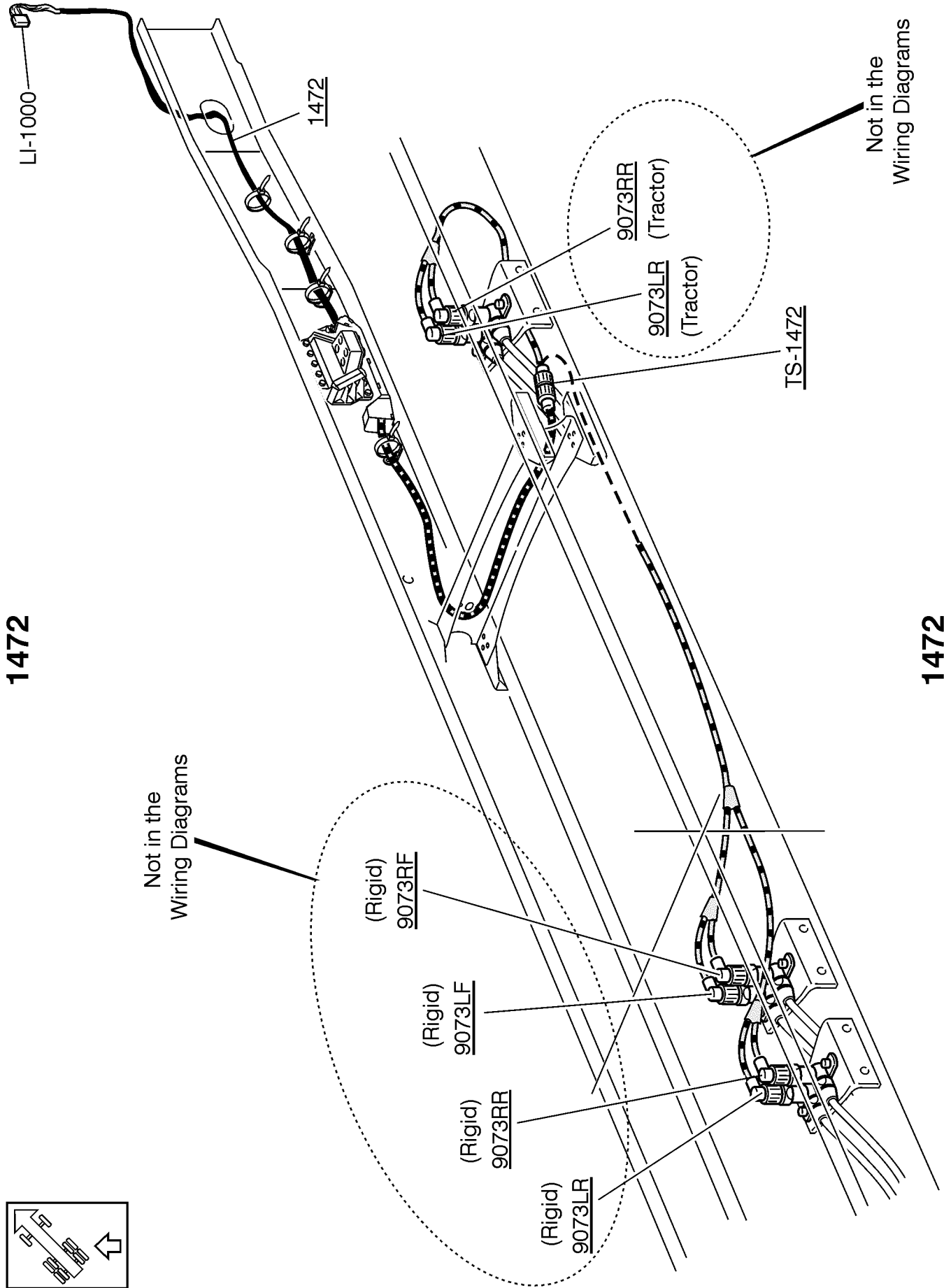




1458



1458

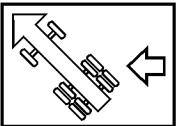


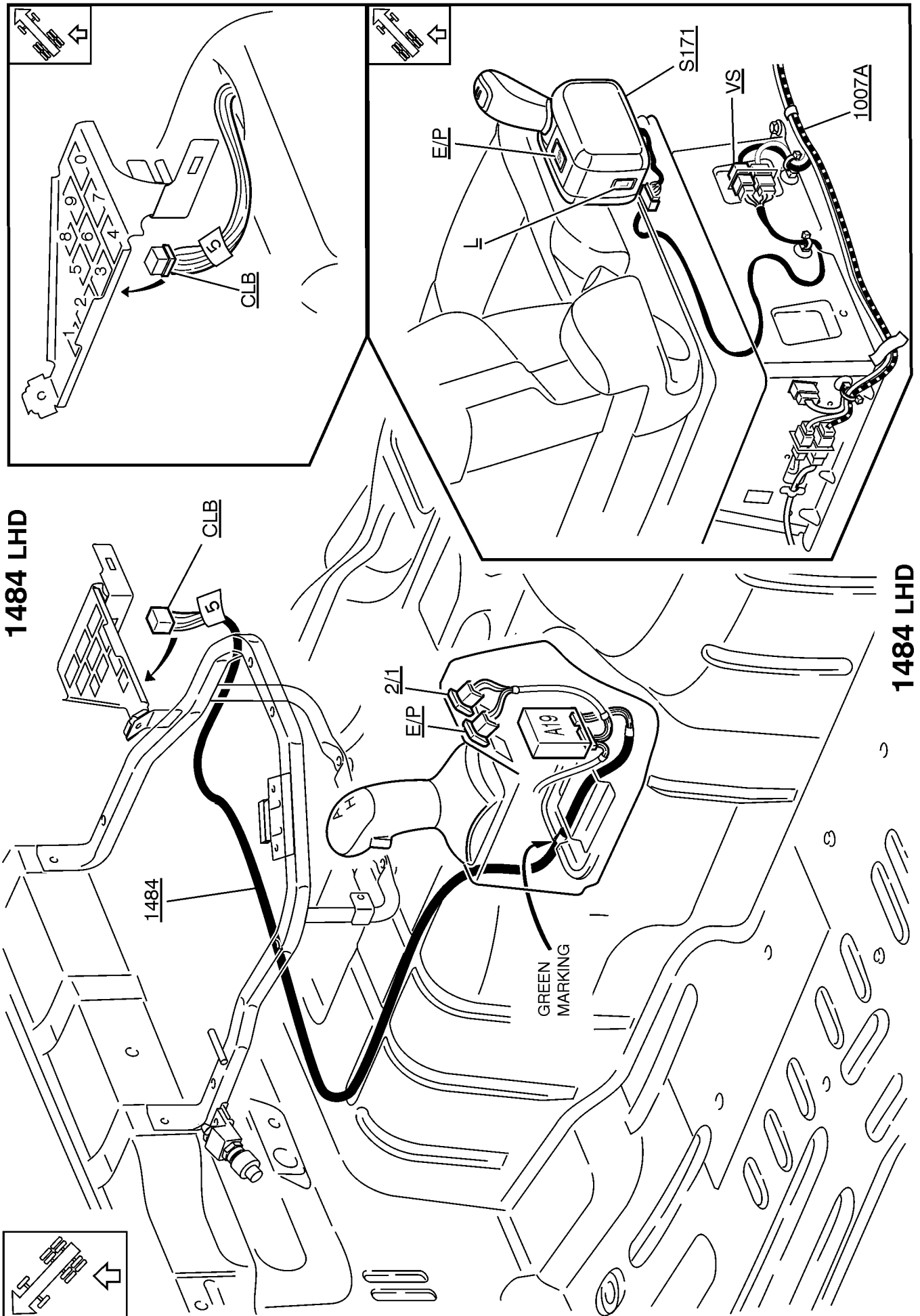
1472

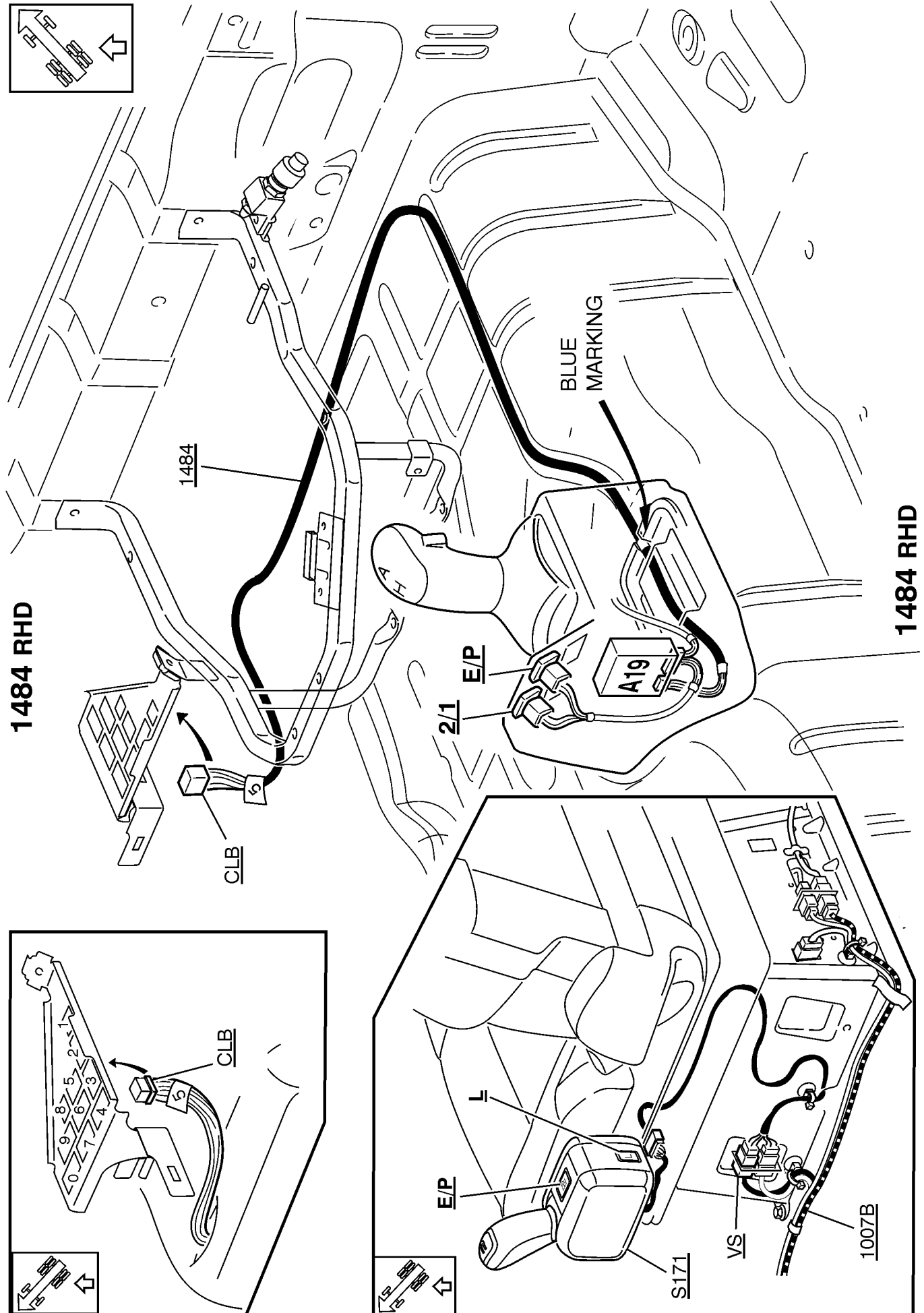
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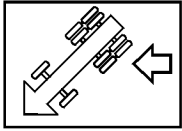
Not in the
Wiring Diagrams

Not in the
Wiring Diagrams

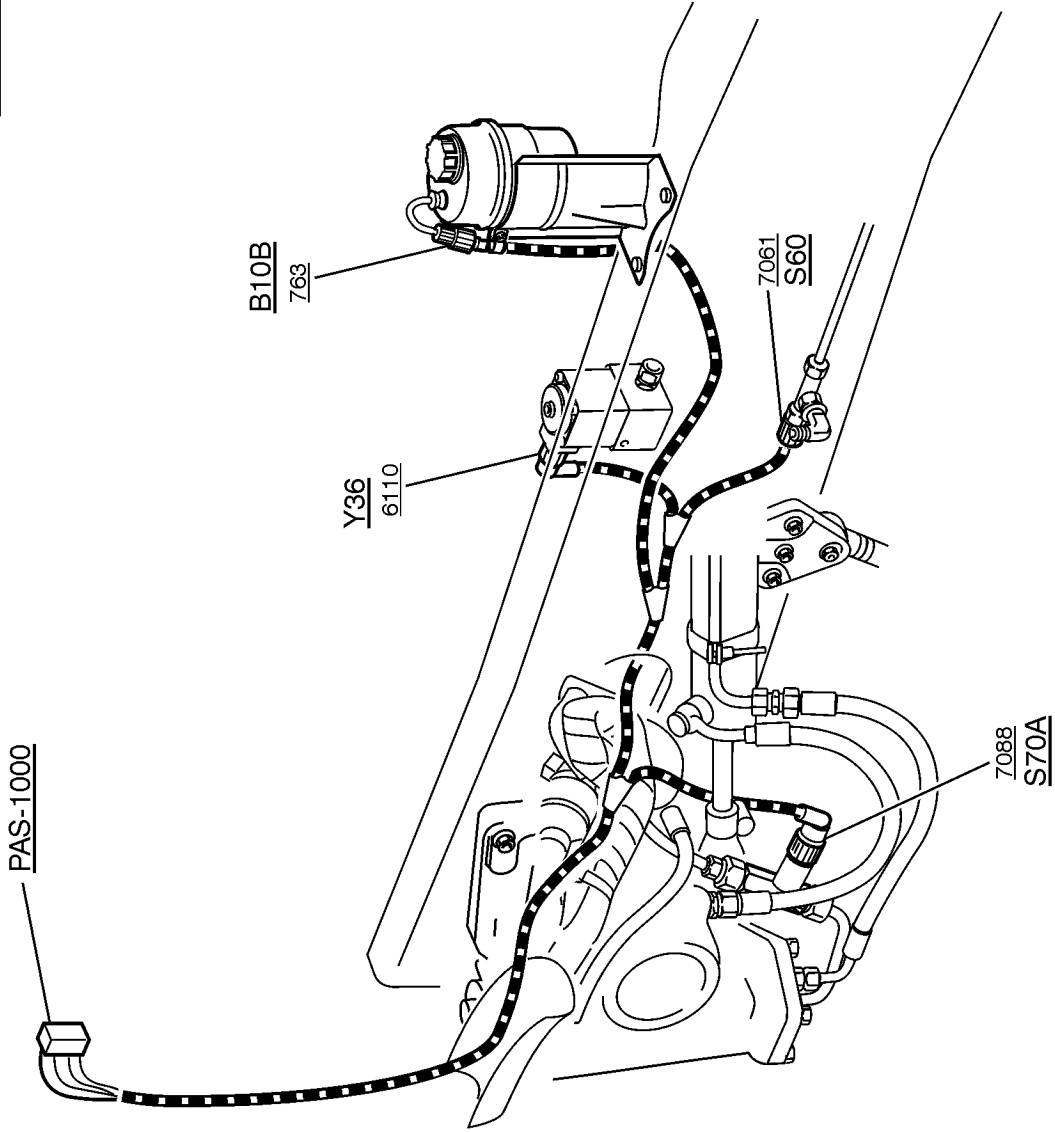




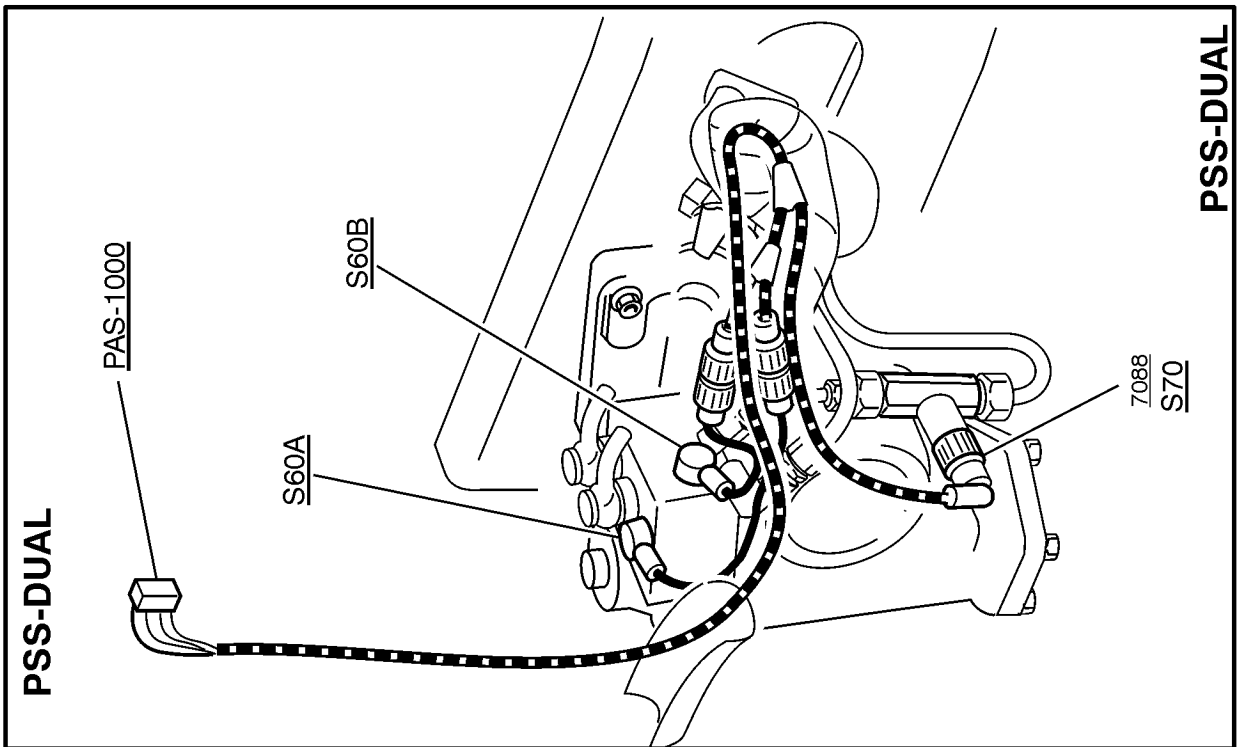




1493 LHD, RSTS-HY



1493 LHD, RSTS-HY

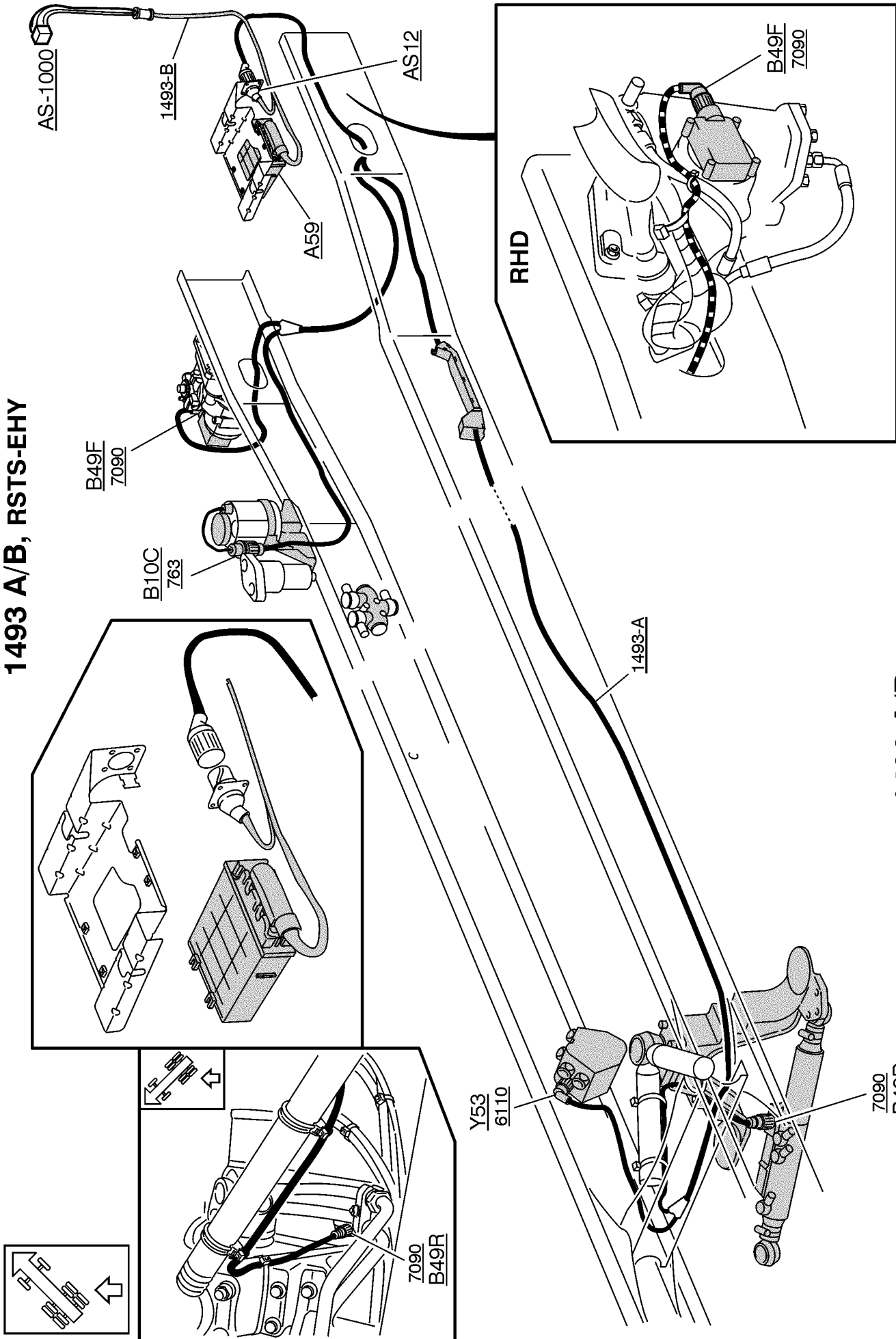


PSS-DUAL

PSS-DUAL

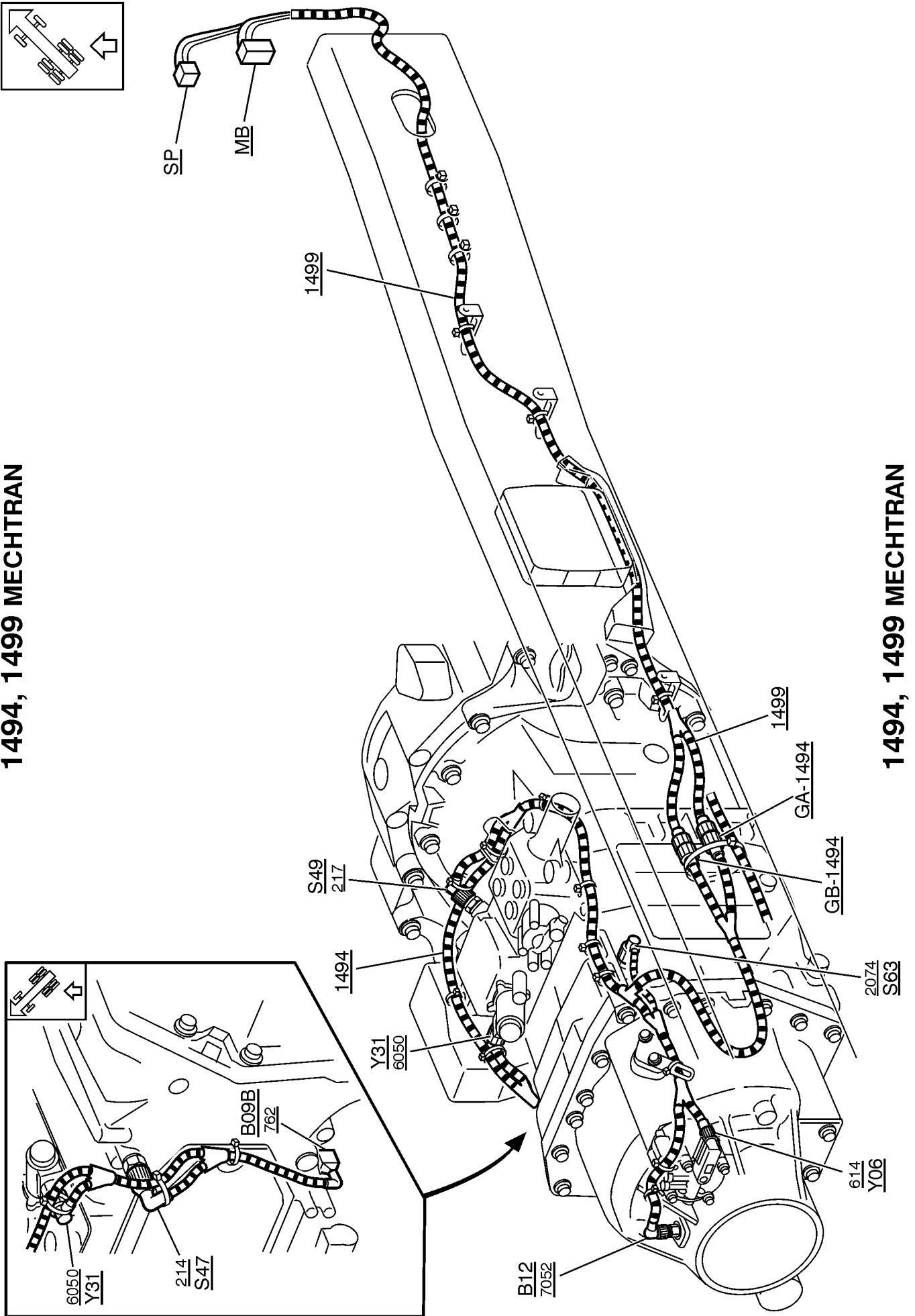
1493 A/B, RSTS-EHY

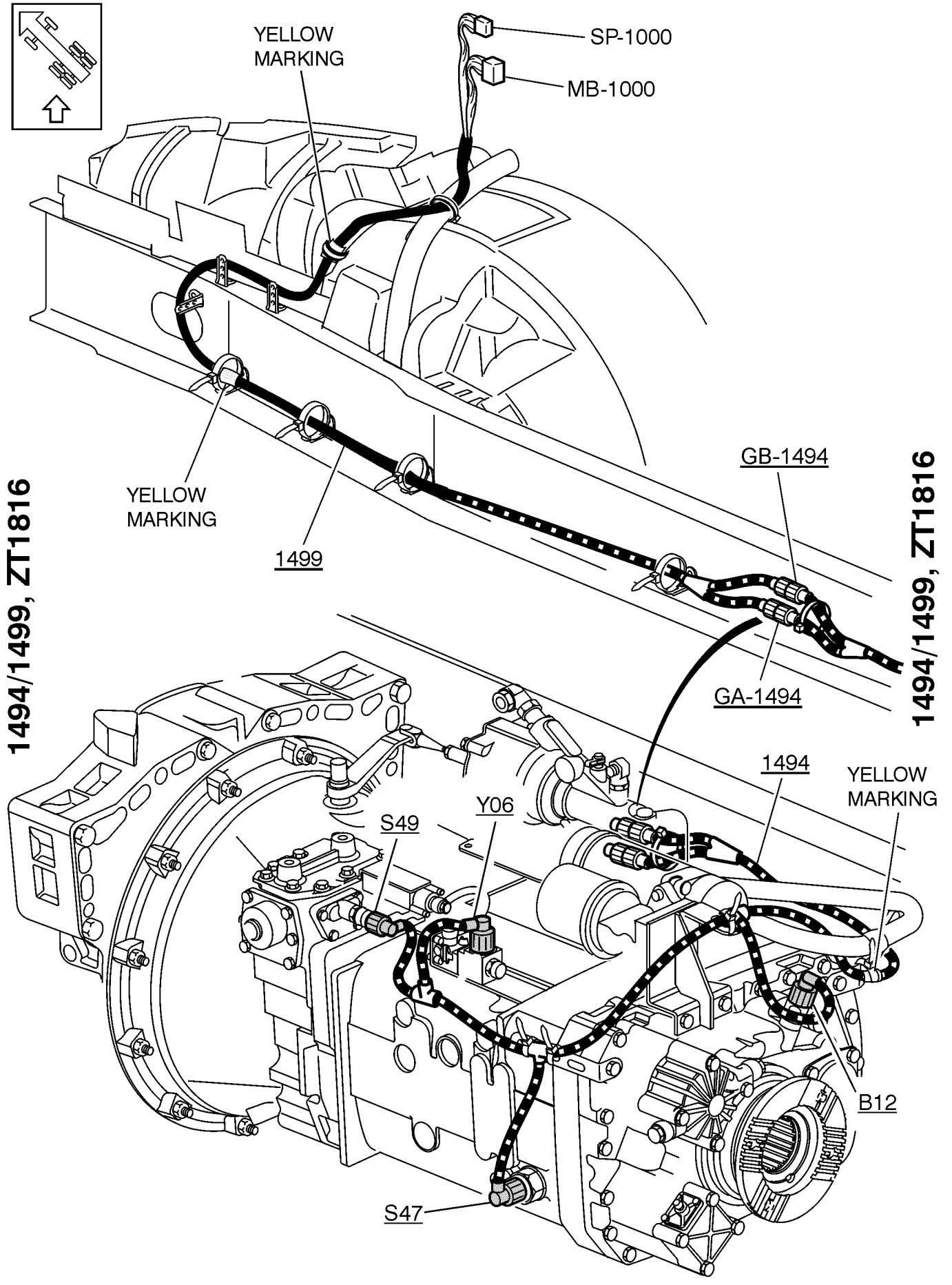
1493 A/B, RSTS-EHY



1494, 1499 MECHTRAN

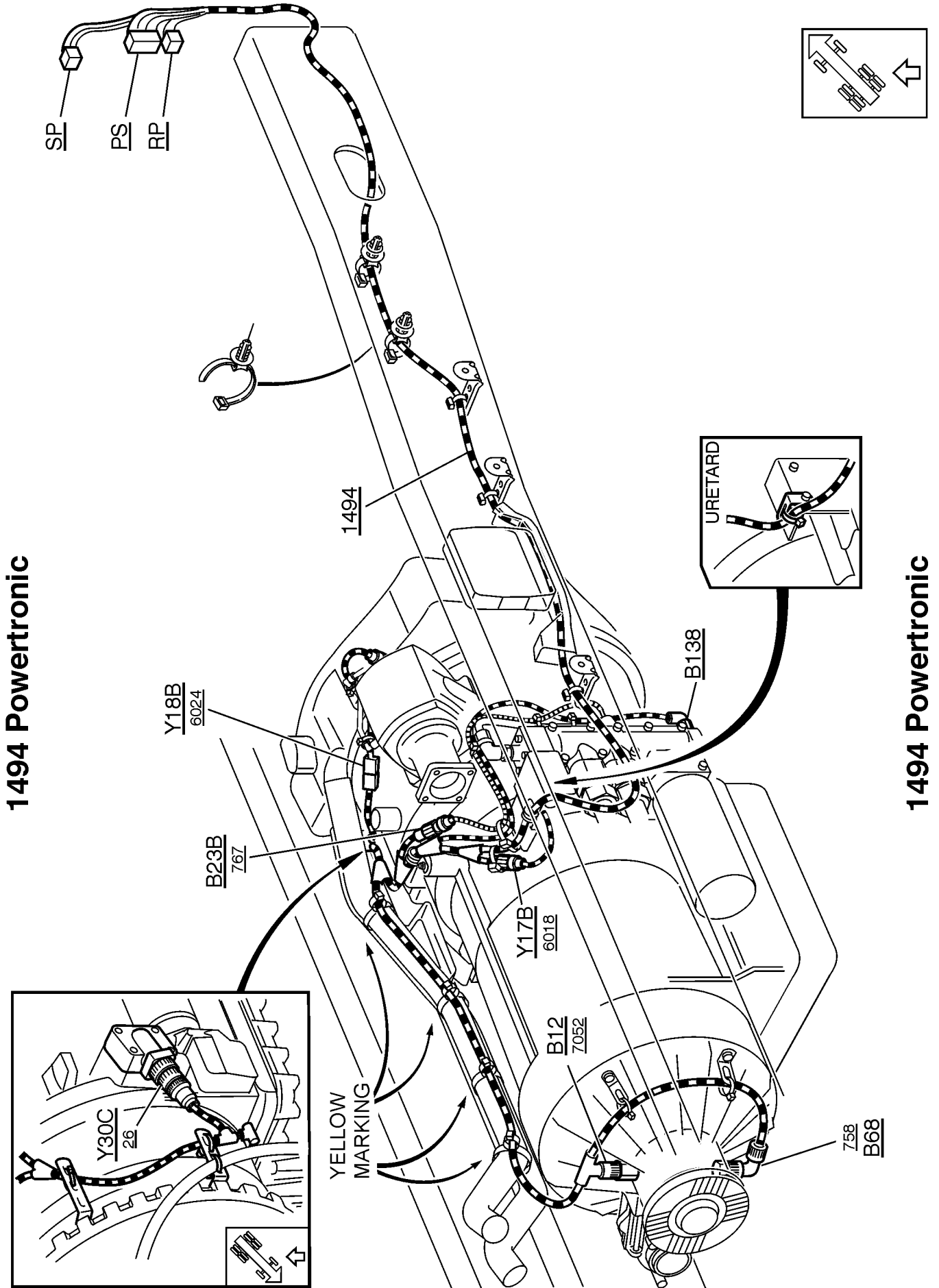
1494, 1499 MECHTRAN





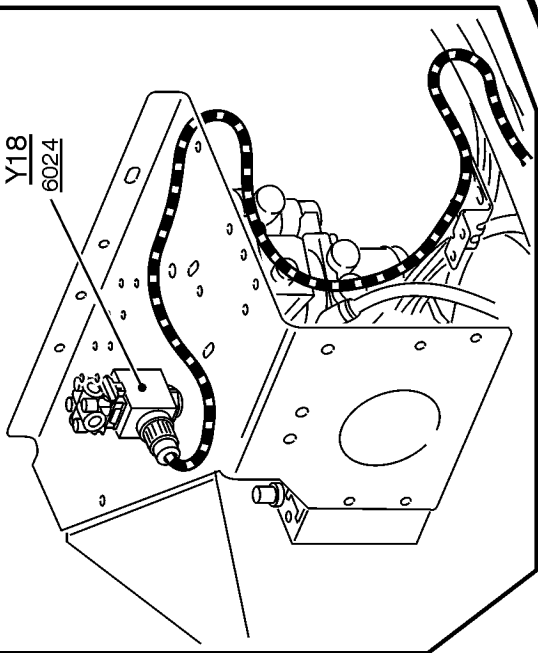
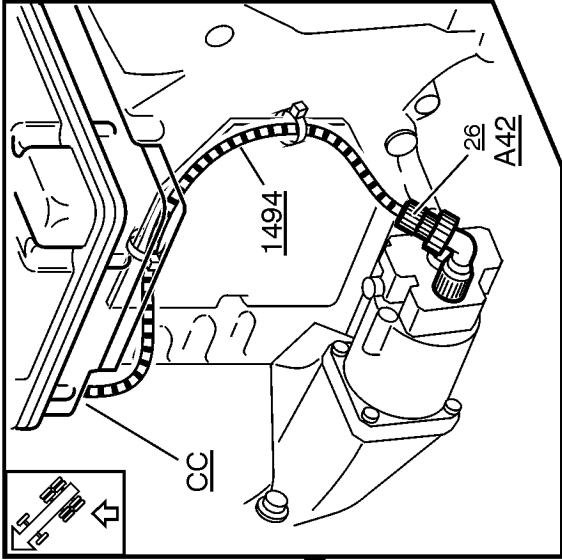
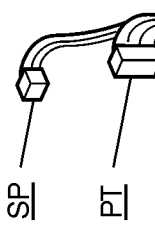
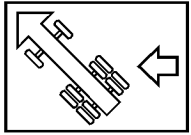
1494/1499, ZT1816

1494/1499, ZT1816



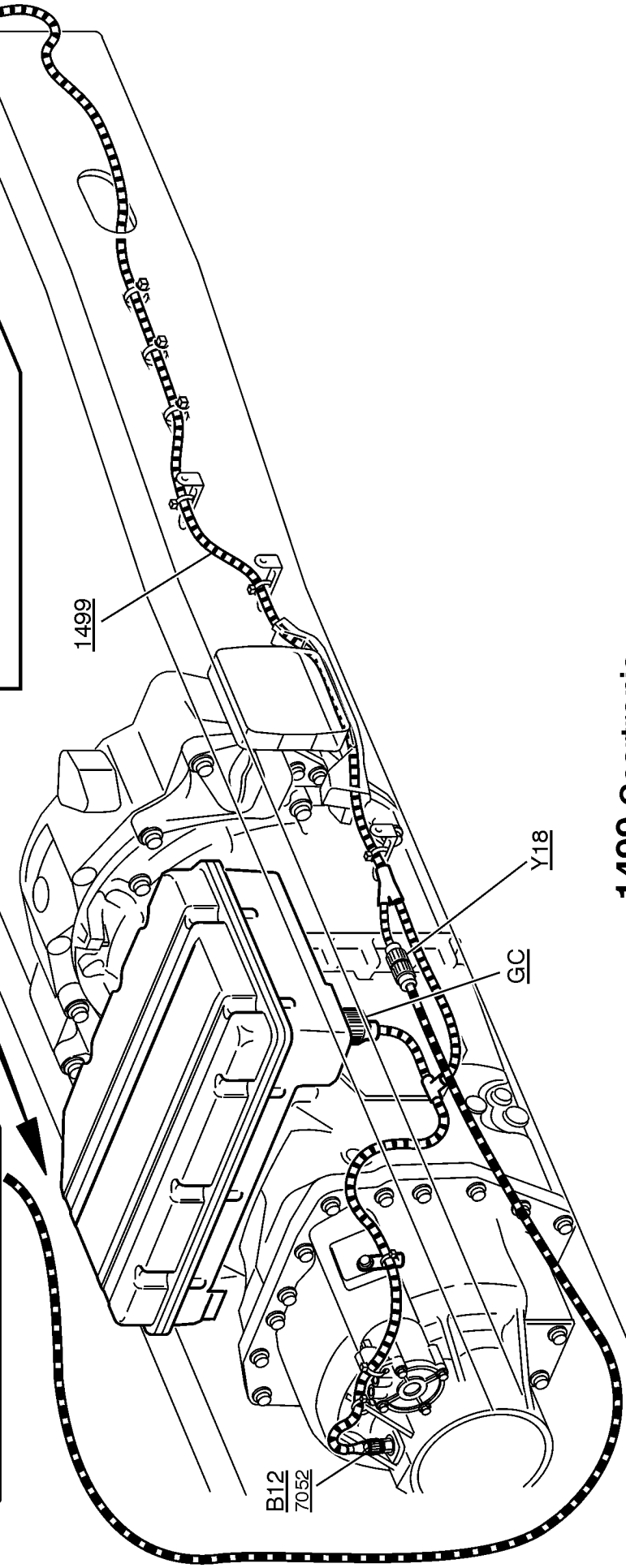
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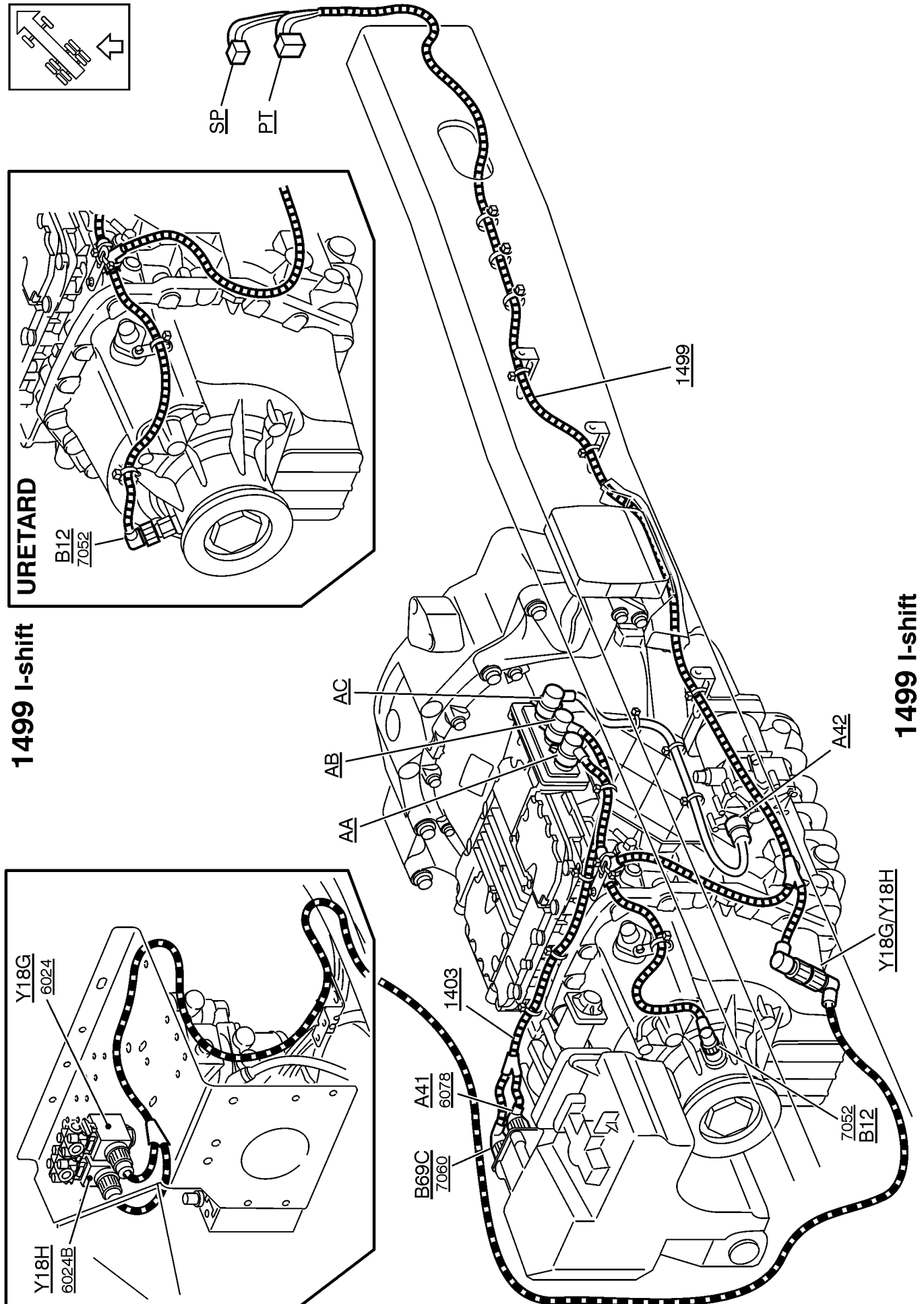
1494 Powertronic

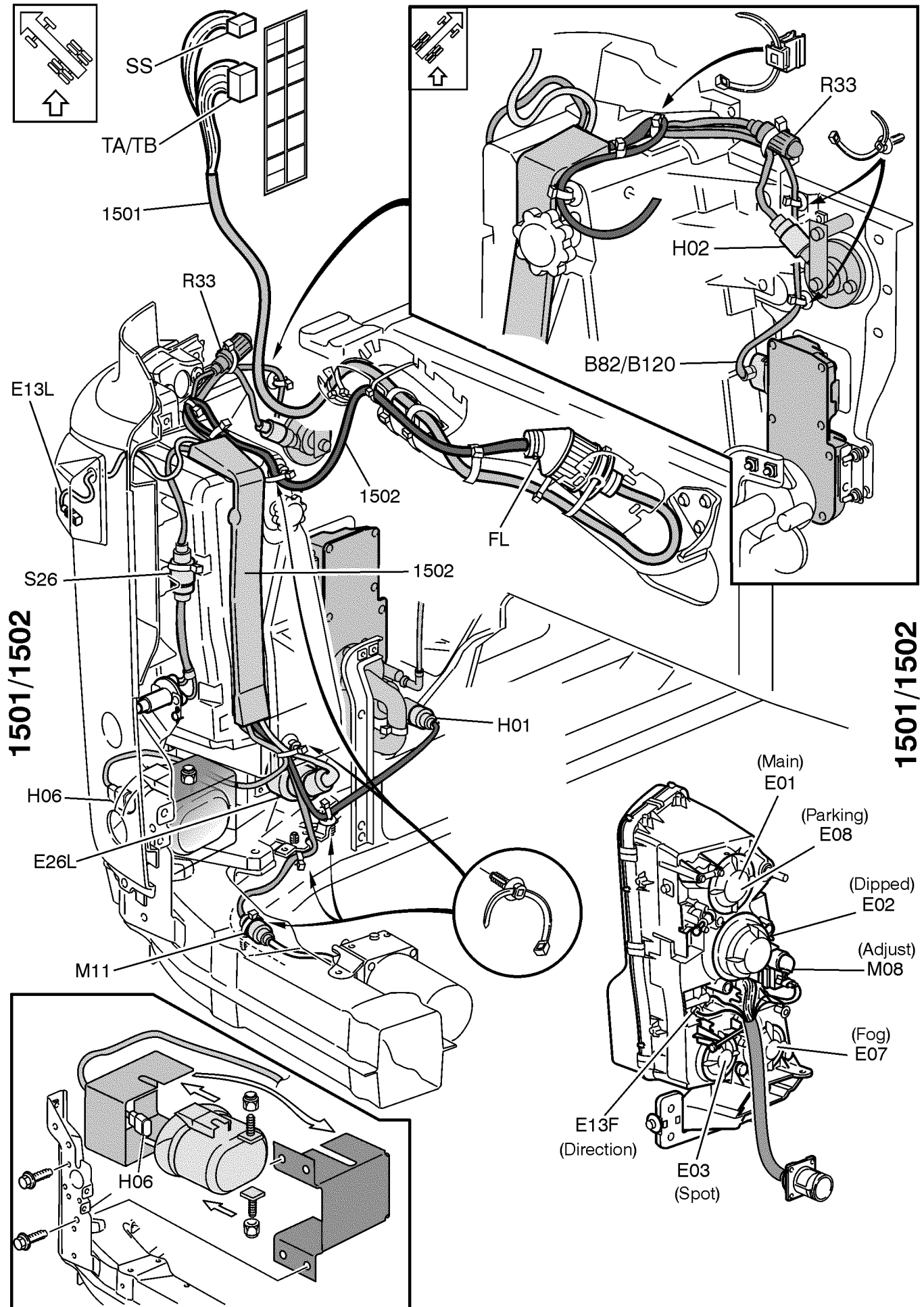


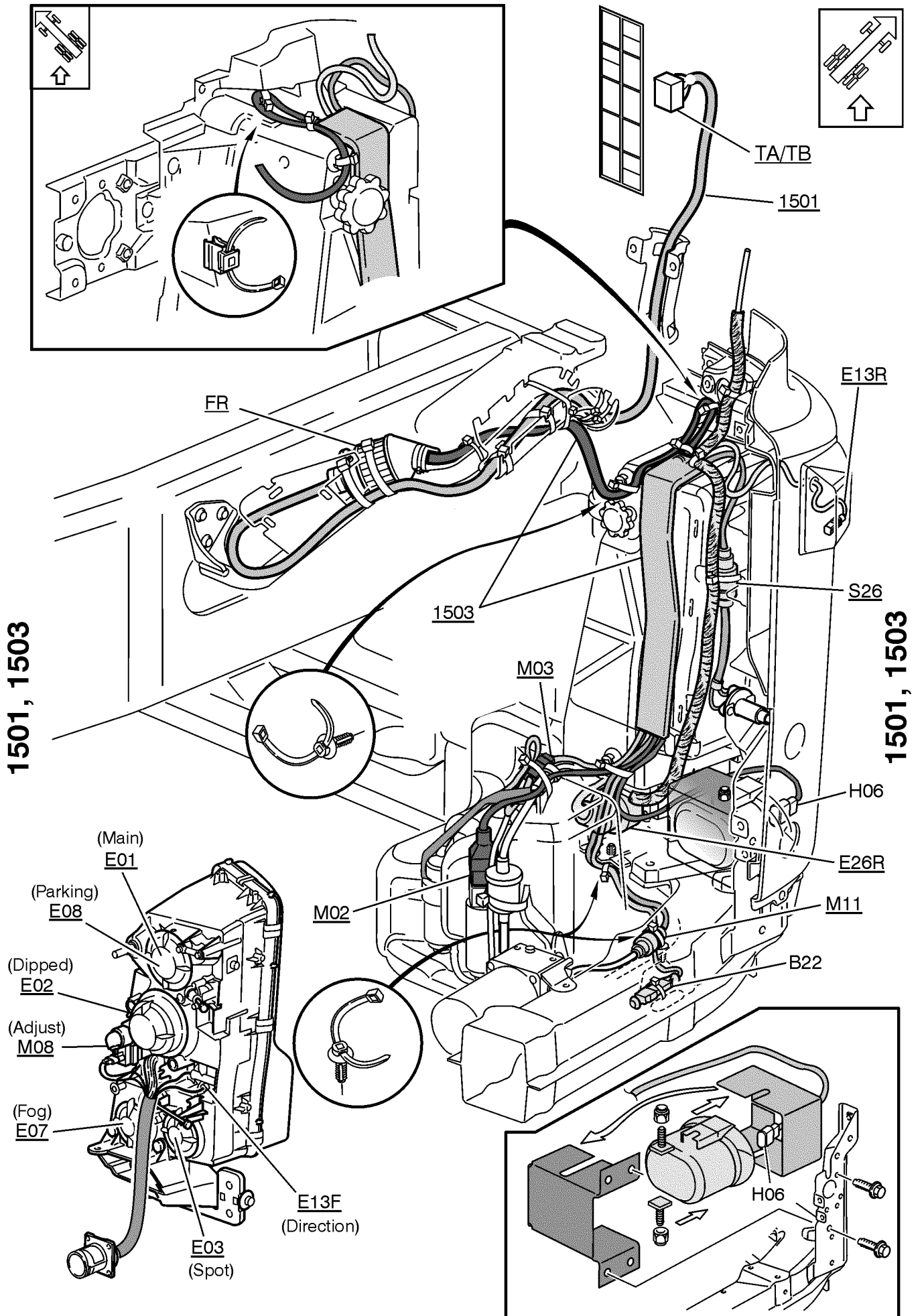
1499 Geartronic

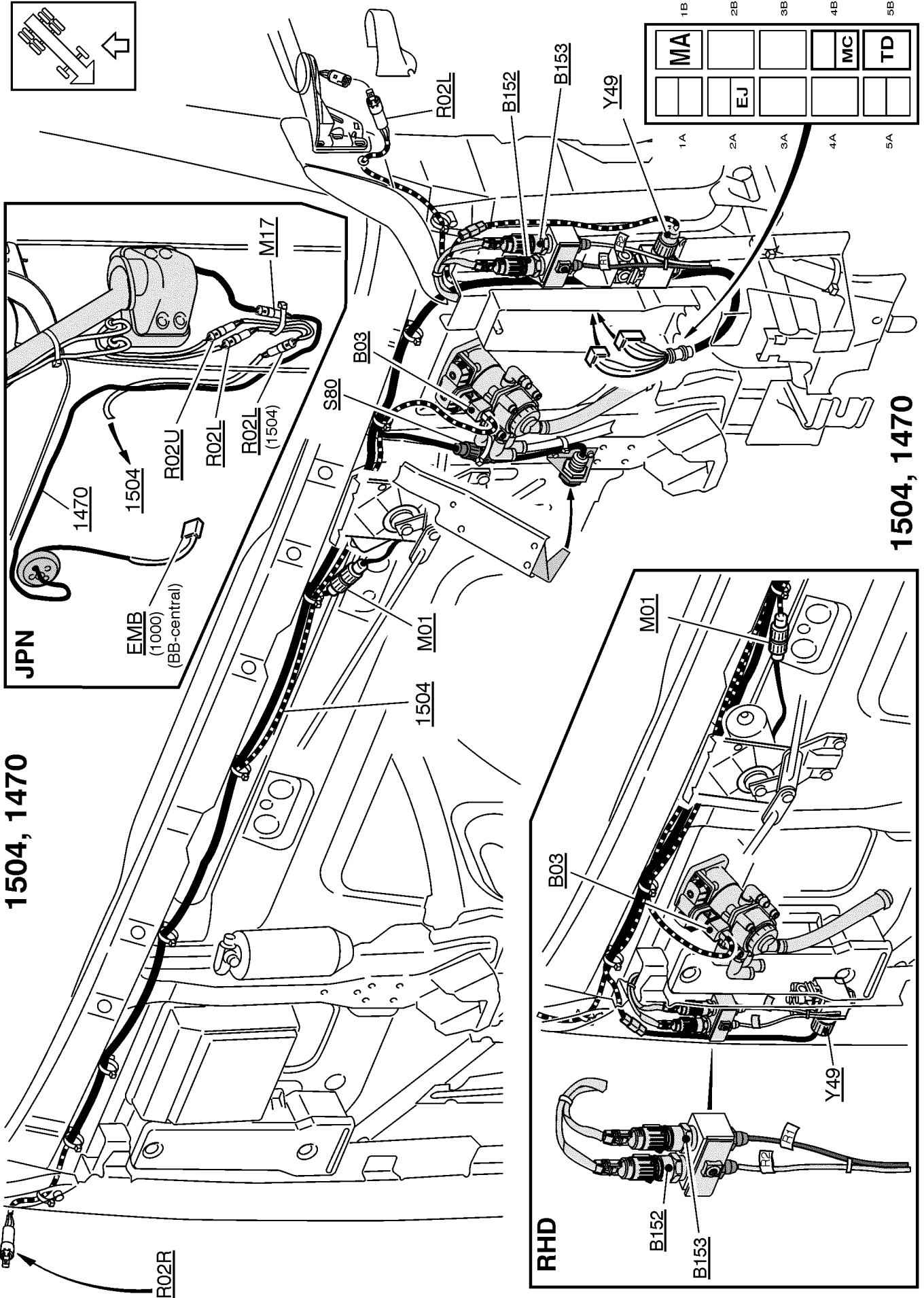
1499 Geartronic









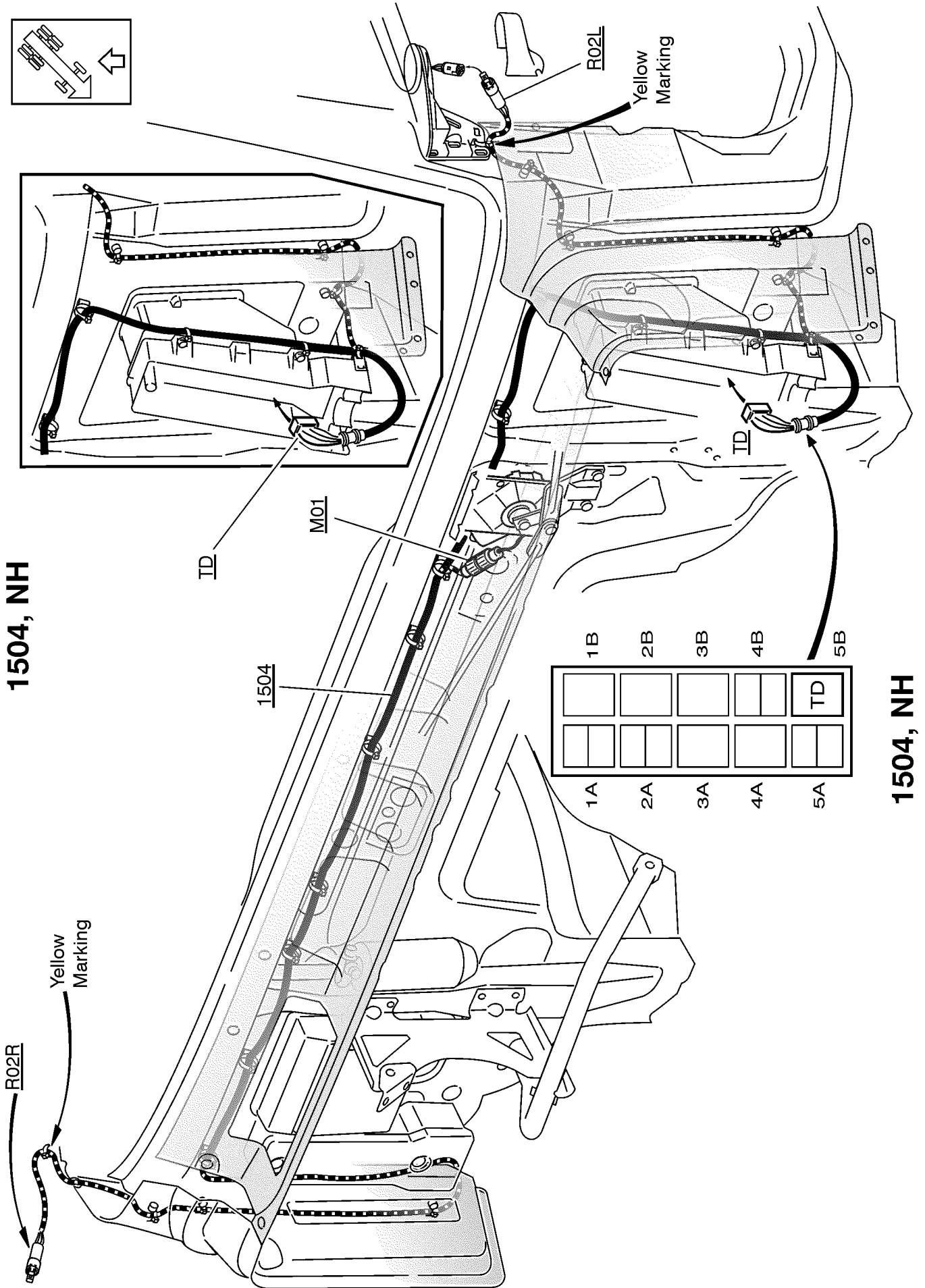


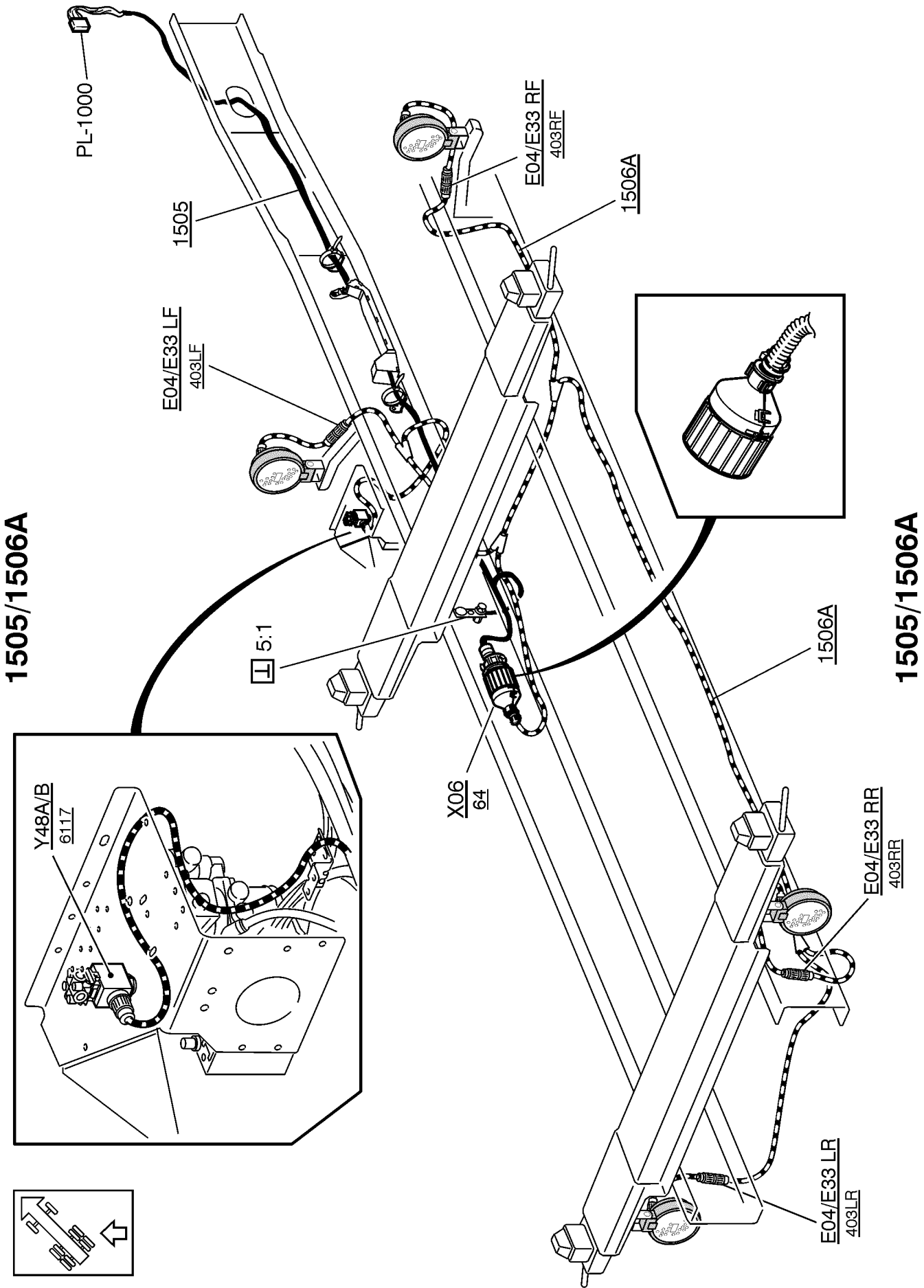
1504, 1470

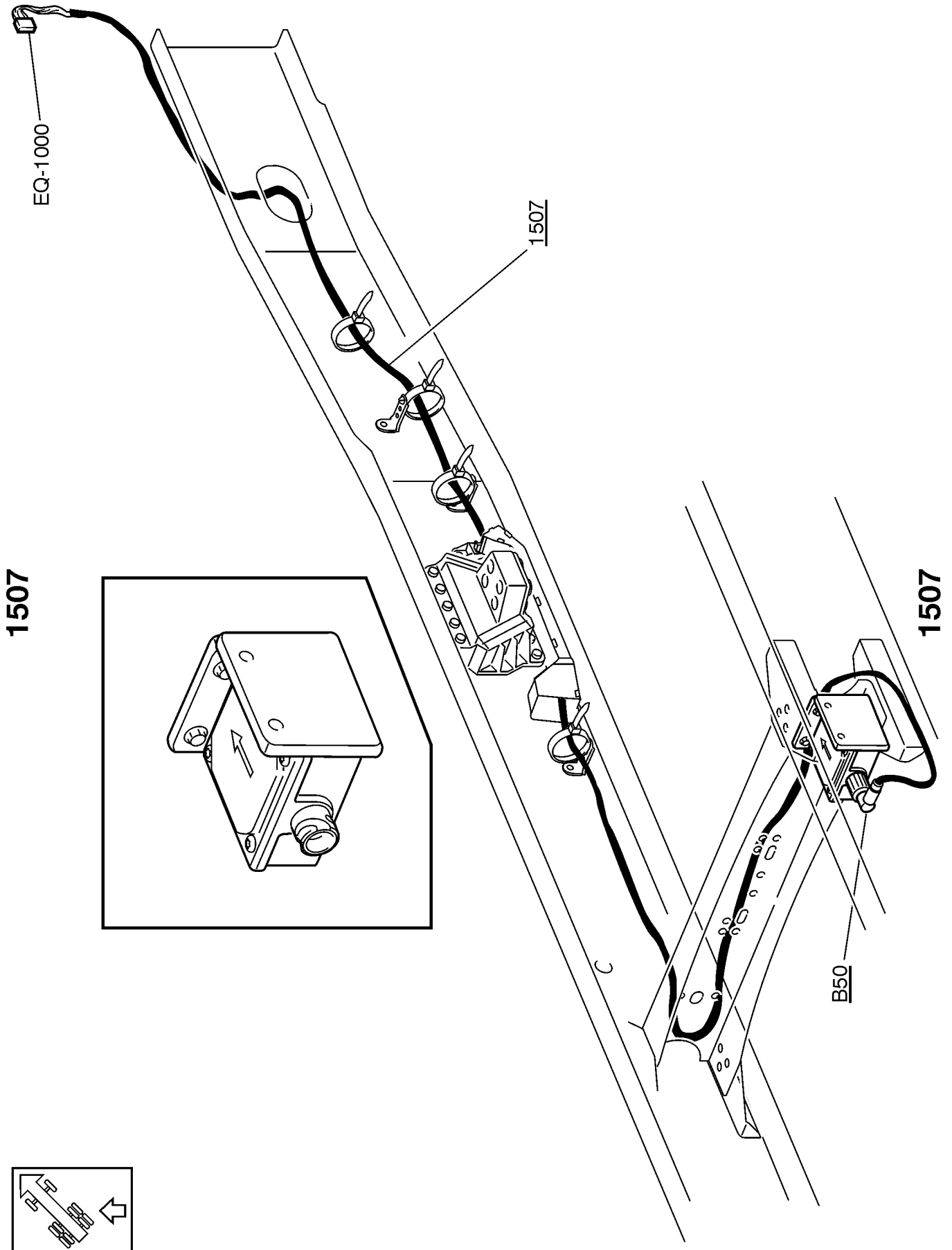
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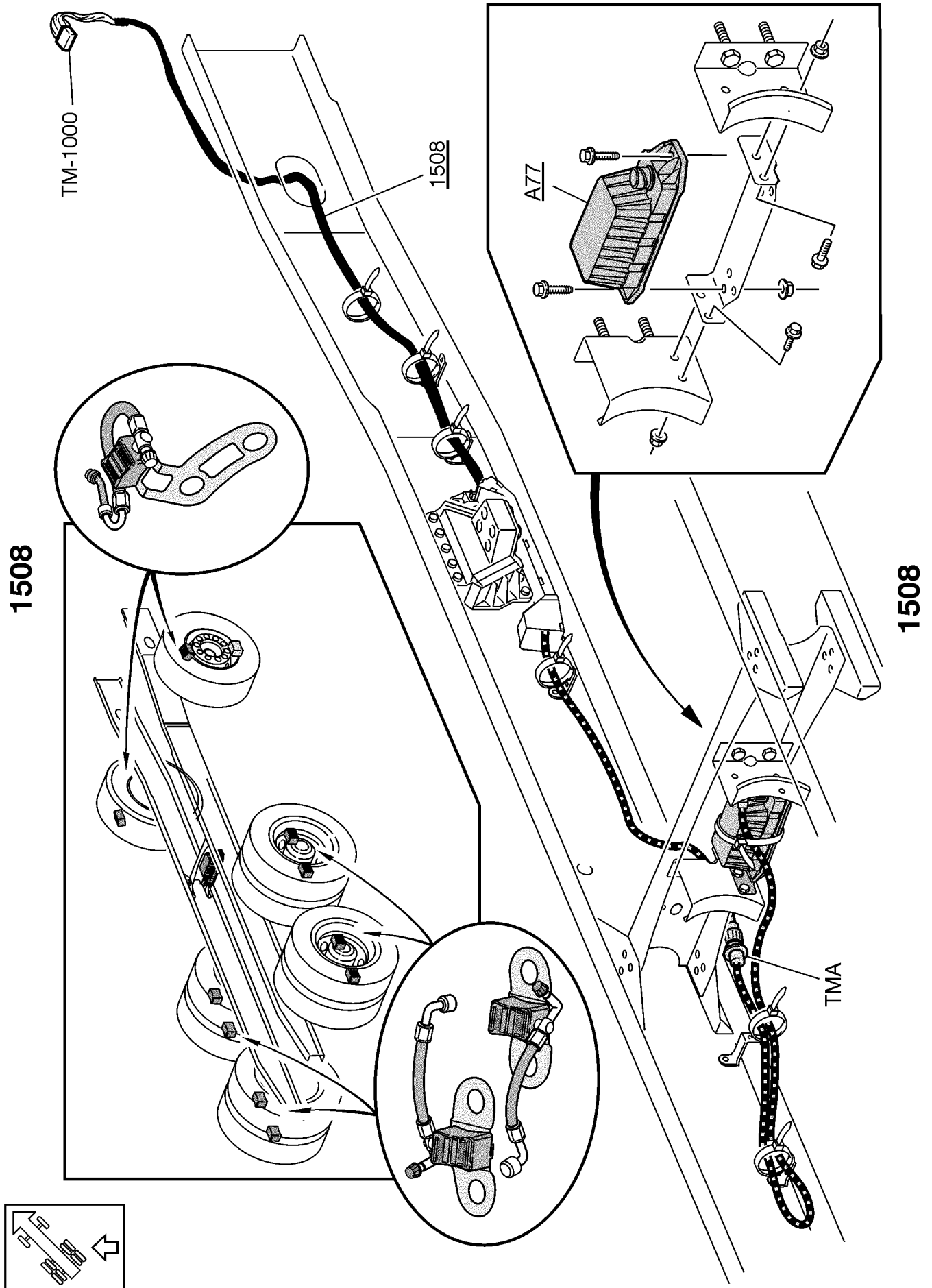
JPN

RHD







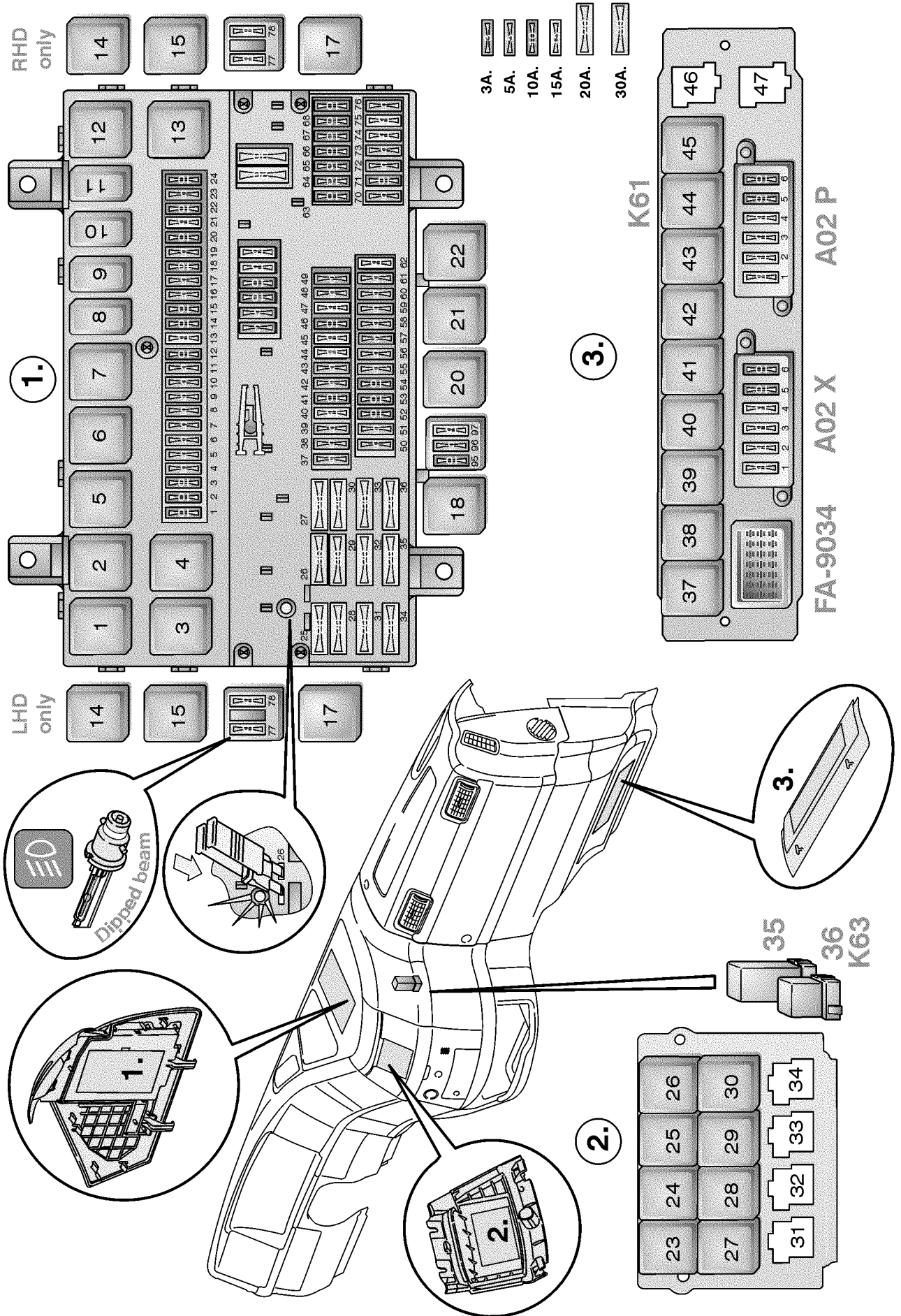


Fuses

F1	TPM (Tyre pressure Monitoring)	(OA:2 A)	F33	El. cab tilt	(KA:0 A)
F2	Luggage compartment illumination	(IH:4 A)	F35	El. adjustable seat	(IA:2 A)
F3	Loadlight, 5:th wheel lamp	(KE:0 A)	F36	Reverse lamp circuit trailer	(GB:4 D)
F4	Key switch, radiopos.	(AC:3 D)	F37	Dynafleet	(AC:3 C)
F5	Instrumentation, (kl.30)	(BI:3 A)	F38	Instep lamps	(AC:3 B)
F6	Air dryer	(BA:1 B)	F39	El. adjustable rear view mirrors	(AC:3 B)
F7	Vehicle ECU, immobiliser	(BA:1 B)	F40	Engine ECU	(CM:1 A)
F8	Instrumentation, TPM (Tyre Pressure Monitoring)	(BI:0 A/ OA:2 A)	F41	Engine solenoid valves, el. fuel pump	(CM:3 A)
F9	Range-, area-inhibitors	(BA:0 A)	F42	Engine preheating relay, cooling fan clutch	(CM:2 A)
F11	Gear selector ECU	(DB:1 B/ DC:1 B/ DM:0 B)	F43	BBM (body builder module)	(BA:1 A)
F12	Transmission ECU/retarder	(DB:1 B/ DM:1 B)	F44	Voltage converter for radio, 12V outlet	(IR:0 A)
F13	Windscreen wiper	(GM:3 A)	F45	Supplementary voltage converter, 12V outlet	(IR:1 A)
F14	Cigarette lighter, centre section storage lamp	(IQ:2 A)	F46	Beacon warning light	(KM:0 A)
F15	Water separator heater and water drain	(CM:0 A)	F47	ACC	(BE:2 A)
F16	Differential lock, power take off	(DQ:0 A/ DU:1 A)	F48	ABS/EBS, EBS switches	(EE:0 A/ EI:0 A/ EO:0 A)
F17	LCM control	(GA:0 A)	F49	Air suspension/A-ride/tag axle	(FA:3 A/ FK:1 A/ FI:0 A)
F18	Horn, solenoid valve for air horn	(GQ:1 A)	F50	Telephone	(IX:0 A)
F19	Climate unit, FMS gateway	(HG:0 A)	F51	Hydraulic steered axle	(FO:1 A)
F20	Central locking, parking heater control	(IM:0 A)	F52	Control circuit engine preheating, radio position relay	(AC:1 A)
F21	Fan, climate unit	(HY:0 A)	F53	Light sign	(KI:1 A)
F22	Interior lamps	(IH:1 A)	F54	Dynafleet, FMS gateway	(BU:0 A/ BX:0 A/ BY:1 A)
F23	Air suspension	(FA:4 A)	F55	SRS airbag, safety belt tensioner	(IS:0 A)
F24	El. heated air dryer, parking heater ADR/TRS, el. heated mirrors	(FQ:0 A)	F56	Free	(ME:1 A)
F25	Supply ABS/EBS trailer	(GG:4 A/ CP:4 A)	F57	Gear selector ECU/retarder	(DB:0 A/ DC:0 A/ DM:1 B)
F26	Body builder fuse box	(ME:3 B)	F58	ADR/TRS, D+ short circuit relay	(AB:2 A/ AE:4 B)
F27	El. window winder lhs, el. heated mirrors	(AC:3 B)	F59	Rear view camera	(IZ:0 A)
F28	Supply ABS/EBS truck	(EE:0 A/ EI:0 A/ EO:2 A)	F60	Hydraulic steered axle, ISX-functions (AUS only)	(CP:1 A/ FO:1 A)
F29	Coffee maker	(ME:1 A)	F61	Foldable rear view mirror arm, Japan, burglar alarm, Volvo link	(BY:2 A/ IF:0 A)
F30	El. window winder, rhs	(AC:3 B)	F62	Free	(ME:0 A)
F31	Main fuse for fuses 95–97	(AB:3 A)	F63	Free/ISX-functions (AUS only)	(CP:0 A)
F32	ECC climate unit	(HG:0 A)	F64	Free/ISX-functions (AUS only)	(CP:0 A)

F65	Central lubrication system	(FU:0 A)	F90	12V converter, ABS trailer/info-module	(CP:3 C)
F66	Roof hatch	(IQ:0 A)	F91	Tachograph, ADR	(AE:0 D)
F67	Reading lamps, bedlamps	(IH:0 A)	F93	Main (not main switch dependent)	(AB:3 D/ AE:0 D)
F68	Refrigerator	(IQ:3 A)	F95	Central door lock	(AB:3 B)
F69	12-volt outlet	(IR:1 C)	F96	Burglar alarm	(AB:3 B)
F70	Trailer ABS/EBS, (kl.15)	(CP:4 A/ GG:3 A)	F97	Parking heater	(AB:3 B)
F71	Extra equipment	(ME:1 A)	FM1	Fuse, main, preheating	(AA:1 B/ AE:2 B)
F72	Headlamp level regulation system	(GU:0 A)	FM2	Fuse, main, bogie lift/extra equipment	(AA:1 B/ AE:1 B)
F73	Hydraulic steered axle	(FP:1 A)	FM3	Fuse, main, cab and chassis	(AA:1 B/ AE:2 B)
F74	Headlamp high-pressure washer	(GM:1 A)	FM4	Fuse, main, light, back-up	(AA:0 B/ AE:1 B)
F75	El. heated seat	(IA:0 A)			
F76	ADR/TRS, D+ short circuit relay .	(AE:4 B)			
F89	Tachograph	(AB:4 D) (1435)			

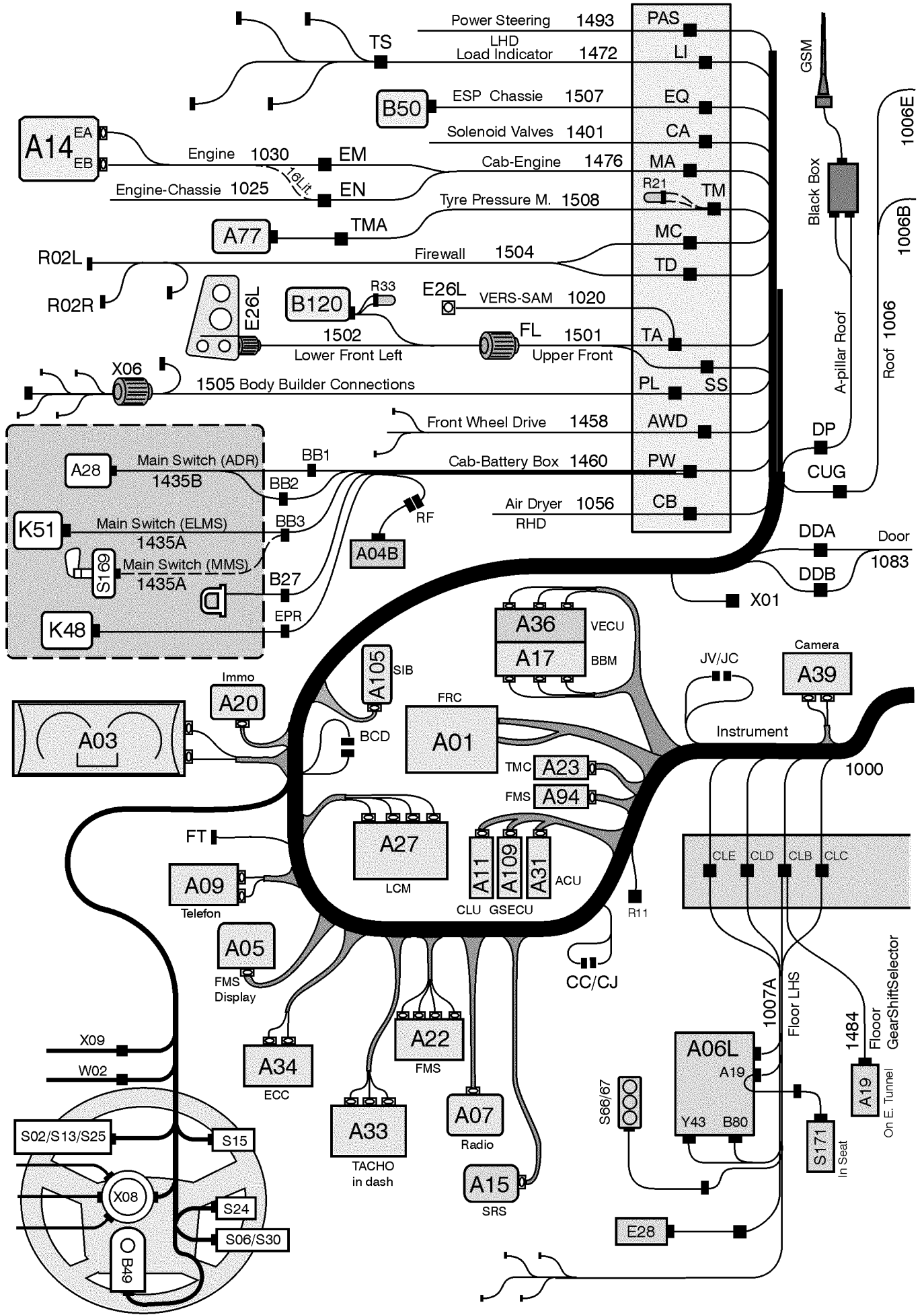
Relays

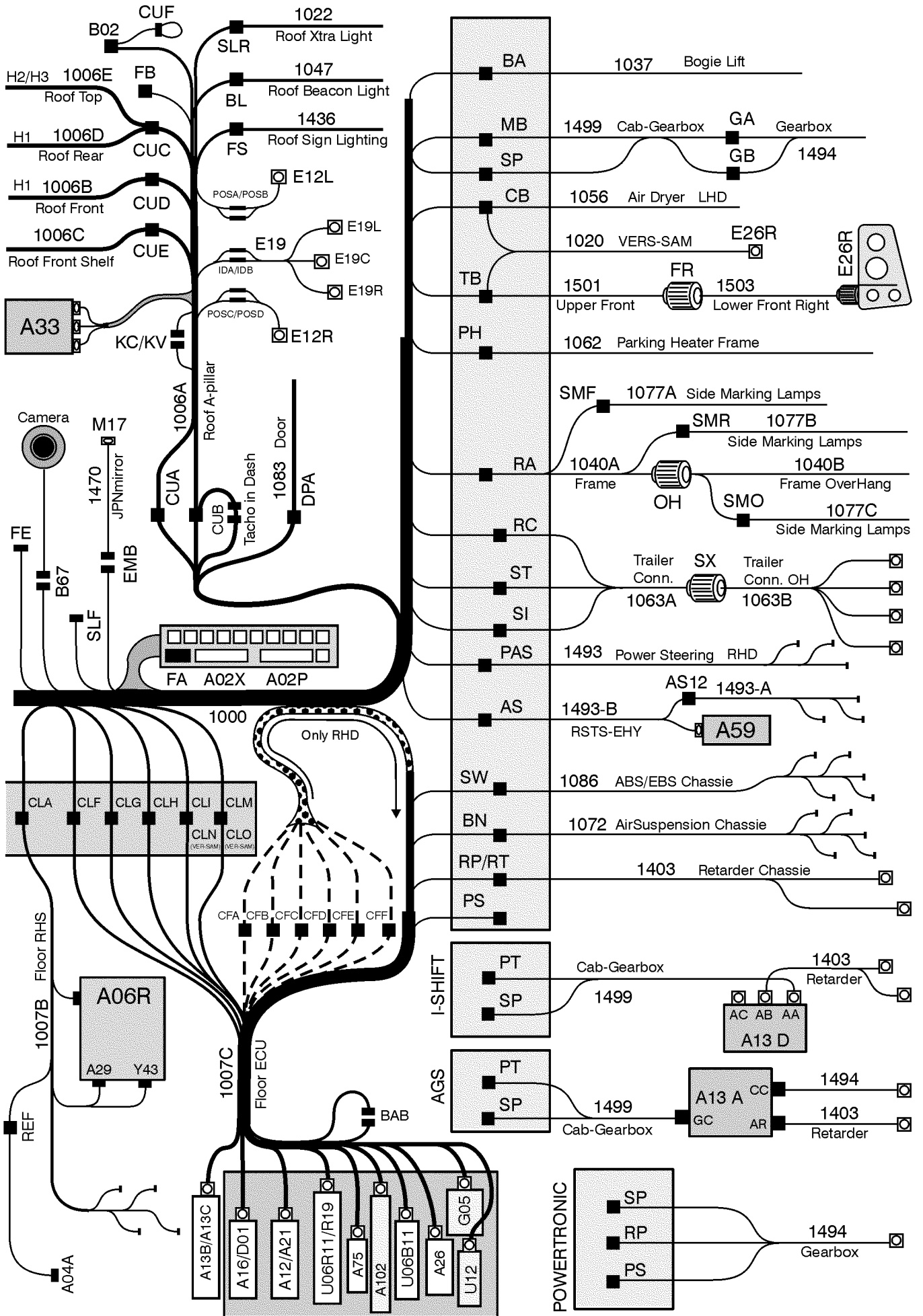


K1	Relay, starting switch, radio position	(AC:3 C)	K26B	Relay, foldable rear view mirror arm, Japan	(IF:1 C)
K2	Relay, EMS (Engine Management System)	(BA:1 A)	K27	Relay, gas discharge lamp, dipped beam, lhs	(GD:1 C)
K3	Relay, starter motor	(AA:2 B)	K28	Relay, gas discharge lamp, dipped beam, rhs	(GD:1 C)
K3B	Relay, starter motor, Cummins ...	(CS:1 C)	K30	Relay, beacon warning light	(KM:0 B)
K4	Relay, body builder fuse box (kl.15)	(ME:2 A)	K35	Relay, headlamp high pressure wash	(GM:0 B)
K5	Relay, automatic transmission	(DB:1 A/ DC:0 A/ DM:0 A)	K37	Relay, parking light	(NA:1 C)
K6	Relay, fan climate unit	(HY:0 B)	K38	Relay, body builder preparation, swapbody lamps	(NA:1 C)
K7	Relay, intermittent wiper	(GM:1 C)	K39	Relay, body builder preparation, plough light, spotlights	(NA:1 C)
K8	Relay, gearbox area inhibitor	(BA:1 A)	K40	Relay, body builder preparation ..	(NA:2 C)
K9	Relay, interior lamps	(IH:1 A)	K41	Relay, body builder preparation, swapbody	(NA:3 C)
K10	Relay, fifth wheel-, working-light	(KE:0 C)	K42	Relay, body builder preparation, spotlights	(NI:1 B)
K11	Relay, air suspension	(FA:4 B)	K43	Relay, body builder preparation, external start	(NC:3 C)
K12	Relay, reverse light, trailer	(GB:4 D)	K45	Relay, body builder preparation, dual speed, extra foglight	(NU:2 B)
K13	Relay, alternator controlled	(AA:4 B)	K48	Power relay, engine preheating ...	(CM:2 B)
K14	Time delay relay, bogie lift, A-ride	(FI:1 B/ FK:1 C)	K49	Power relay, bogie lift motor	(FI:3 B/ FK:3 D)
K15	Time delay relay, bogie lift, A-ride, with axle load limiter	(FK:2 C)	K51	Power relay, battery main switch .	(AB:0 C)
K16	Relay, bogie lift, A-ride, with axle load limiter	(FK:1 C)	K54	Relay, 12V ABS Trailer	(CP:2 D)
K18	Relay, hydraulic steered axle	(FP:1 B)	K58	Relay, speed limiter, Volvo link	(BY:3 B)
K20	Relay, D+ short-circuit, (ADR-trucks only)	(AE:4 D)	K59	Relay, engine shut off, Volvo link	(BY:4 B)
K21	Relay, el. adjustable seat	(IA:2 B)	K60	Relay, trailer lock, Volvo link	(BY:3 D)
K22	Relay, climate fan, 1:st speed (by parking heater)	(HY:1 B)	K61	Relay, auxiliary reverse light, truck	(NA:0 C)
K23	Relay, cab tilt	(KA:0 C)	K63	Relay, ACC Adaptive cruise control	(BE:2 B)
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)			

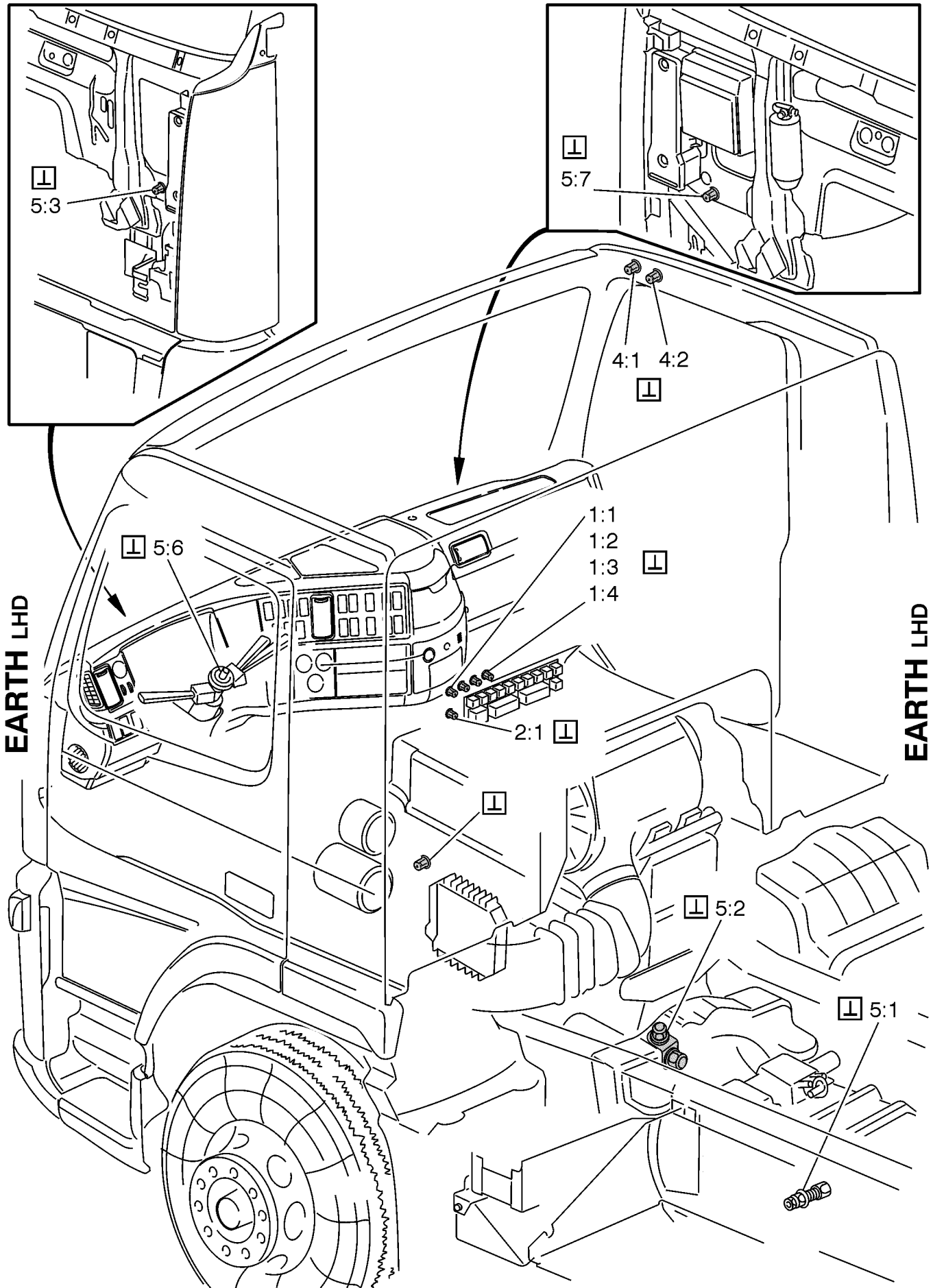
Wiring harness illustration index

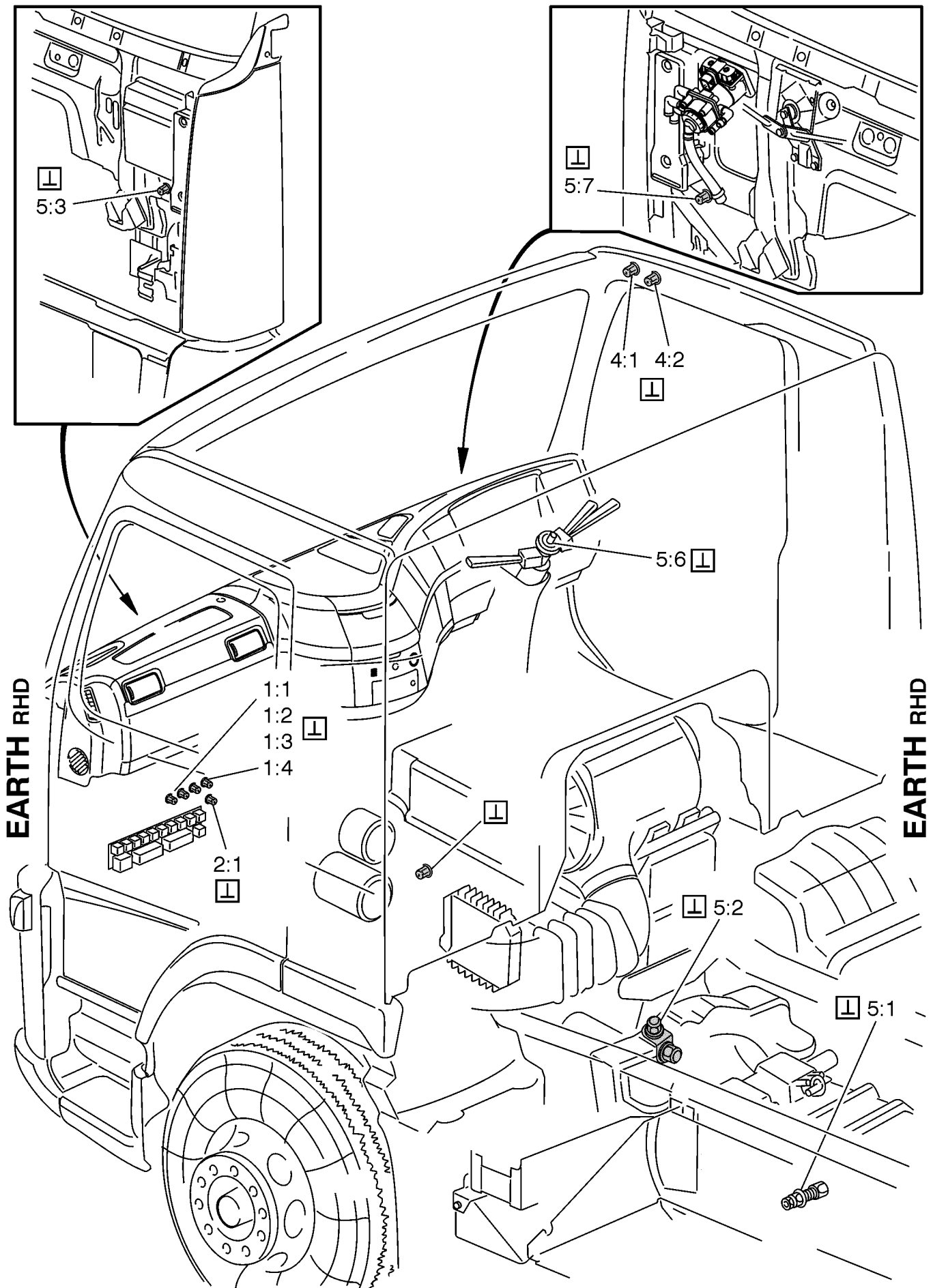
1000	Wiring harness, instruments	page 98
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1007	Wiring harness, floor	page 113
1018	Wiring harness, air conditioning	page 121
1020	Wiring harness, cowl	page 122
1025	Wiring harness, engine-chassi	page 124
1030	Wiring harness, engine	page 126
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1056	Wiring harness, air dryer	page 134
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Earth connections





T3017746

List of earth connections

1:1	(IR:1 E)	4:1_5	(IH:0 E)	5:2	(AE:0 E)
1:1_A	(IR:1 E)	4:2_1	(BN:0 D)	5:2	(AE:2 E)
1:2_A	(BA:2 E)	4:2_1	(BN:1 D)	5:2	(AE:3 E)
1:2_B	(IS:0 E)	4:2_2	(HI:0 B)	5:3	(AA:3 E)
1:3	(AE:4 E)	4:2_3	(IQ:1 E)	5:4	(FI:3 D)
1:4	(AA:3 E)	4:2_4	(BN:1 D)	5:4	(FK:3 E)
1:4	(AC:2 D)	4:2_5	(KM:0 D)	5:6	(GQ:1 E)
1:4_B	(AA:4 E)	4:2_6	(NI:3 E)	5:7_1	(GE:1 D)
1:4_C	(HZ:1 D)	4:2_7	(NI:4 E)	5:7_2	(GH:2 D)
2:1_A	(CP:4 C)	5:1	(AA:0 E)	5:7_3	(GH:2 D)
2:1_C	(NI:0 E)	5:1	(AB:0 D)	5:7_4	(GG:2 C)
2:1_D	(ME:0 B)	5:1	(AB:2 D)	5:9_1	(AA:0 E)
2:1_E	(NA:2 D)	5:1	(AE:0 E)	5:9_1	(AB:0 D)
2:1_F	(BE:4 E)	5:1_1	(NA:4 D)	5:9_1	(AB:2 D)
4:1_1	(GA:1 E)	5:1_2	(NA:4 D)	5:9_1	(AE:0 E)
4:1_1	(GA:4 E)	5:2	(AA:0 E)	5:9_3	(AB:0 D)
4:1_2	(KI:2 B)	5:2	(AA:1 E)	5:9_3	(AB:2 D)
4:1_3	(KI:1 E)	5:2	(AA:2 E)		
4:1_4	(GA:0 E)	5:2	(AB:0 D)		
4:1_4	(IH:1 E)	5:2	(AB:2 D)		

List of connectors

ADR1:1	(AE:1 C)	BAB:11	(XB:2 D)	BN:18	(FG:0 C)
ADR1:2	(AE:1 C)	BAB:12	(XB:2 D)	BN:19	(FA:0 D)
ADR2:1	(AE:1 C)	BAB:13	(XB:3 D)	BN:20	(FA:0 D)
ADR2:2	(AE:1 C)	BAB:14	(XB:1 D)	BN:21	(FM:0 C)
ADR3:1	(AE:2 C)	BAB:15	(XB:1 D)	CA:1	(DQ:0 D)
ADR3:2	(AE:2 C)	BAB:16	(XB:3 D)	CA:2	(GB:3 B)
ADR4:1	(AE:2 C)	BAB:17	(XB:4 D)	CA:3	(DU:1 C)
ADR4:2	(AE:2 C)	BAB:18	(XB:1 D)	CA:4	(DQ:0 C)
AG:1	(FO:2 D)	BB1:1	(AE:1 A)	CA:5	(GB:3 B)
AG:2	(FO:2 D)	BB1:2	(AE:0 D)	CA:6	(EO:3 B)
AG:3	(FO:2 D)	BB1:3	(AE:1 E)	CA:9	(DU:1 C)
AG:4	(FO:2 D)	BB1:4	(AE:1 A)	CA:10	(EO:3 B)
AR:1	(DE:1 D)	BB1:5	(AE:2 D)	CA:11	(EO:3 B)
AR:2	(DE:0 C)	BB1:6	(AE:2 D)	CA:12	(EO:3 B)
AR:3	(DE:0 C)	BB1:7	(AE:0 D)	CA:13	(EO:3 B)
AR:4	(DE:0 C)	BB2:1	(AE:0 C)	CA:14	(EO:3 B)
AR:5	(DE:1 C)	BB2:2	(AE:1 C)	CA:15	(EO:3 B)
AR:6	(DE:1 C)	BB2:3	(AE:1 D)	CA:16	(DU:1 D)
AR:7	(DE:1 C)	BB2:4	(AE:1 D)	CA:17	(FU:0 C)
AS:1	(FO:1 C)	BB3:1	(AB:0 B)	CA:18	(FU:0 D)
AS:2	(FO:1 C)	BB3:2	(AB:1 C)	CA:19	(NC:0 C)
AS:4	(FO:1 B)	BB3:3	(AB:1 D)	CA:19	(NU:0 C)
AS:5	(FO:1 B)	BB3:3	(AB:2 C)	CA:20	(NC:1 C)
AS:6	(FO:2 B)	BB3:4	(AB:0 B)	CA:20	(NU:1 C)
AS:7	(FO:3 B)	BB3:5	(AB:3 C)	CB:1	(FQ:0 B)
AS:8	(FO:3 B)	BB3:6	(AB:0 B)	CB:2	(FQ:0 D)
AS:9	(FO:1 E)	BCD:1	(XA:2 B)	CB:3	(BA:0 D)
AS12:1	(FO:3 C)	BCD:2	(XA:3 B)	CB:3	(FQ:2 B)
AS12:2	(FO:3 C)	BCD:3	(XB:0 B)	CB:4	(BA:0 D)
AS12:3	(FO:3 C)	BCD:4	(XA:2 B)	CB:5	(FQ:2 D)
AS12:4	(FO:3 C)	BCD:5	(XA:2 B)	CB:6	(FQ:2 D)
AS12:5	(FO:2 C)	BCD:6	(IX:2 D)	CC/CJ:1	(IZ:2 B)
AS12:6	(FO:2 C)	BCD:7	(XA:3 B)	CC/CJ:2	(IZ:2 B)
AS12:7	(FO:2 C)	BCD:8	(XA:3 B)	CC/CJ:3	(IZ:1 A)
AS12:8	(FO:2 C)	BCD:9	(XB:0 B)	CC/CJ:4	(IZ:1 B)
AS12:9	(FO:1 C)	BCD:10	(XA:3 B)	CC/CJ:5	(IX:2 A)
AS12:10	(FO:0 B)	BCD:11	(XA:4 B)	CC:1	(DE:3 D)
AS12:11	(FO:0 B)	BCD:12	(IX:2 D)	CC:3	(DE:3 C)
AS12:12	(FO:1 D)	BCD:13	(XA:2 B)	CC:4	(DE:2 C)
AWD:3	(DU:2 C)	BCD:14	(XA:4 B)	CC:5	(DE:3 C)
AWD:4	(DU:2 C)	BCD:15	(XB:0 C)	CC:6	(DE:2 C)
AWD:5	(DU:4 C)	BCD:16	(XB:0 C)	CC:9	(DE:2 C)
AWD:6	(DU:4 C)	BL:1	(KM:0 C)	CC:10	(DE:2 C)
AWD:8	(DU:2 D)	BL:3	(KM:0 D)	CC:11	(DE:2 C)
B07_1:1	(BI:2 C)	BL_2:1	(KM:1 D)	CC:12	(DE:2 D)
B07_1:2	(BI:2 D)	BL_2:2	(KM:1 D)	CE:1	(CP:1 A)
BA:1	(FI:1 C)	BL:3:1	(KM:0 C)	CE:2	(CP:1 A)
BA:1	(FK:1 D)	BN:1	(FA:1 A)	CE:3	(CP:1 A)
BA:2	(FI:2 C)	BN:2	(FA:1 D)	CE:4	(CP:1 A)
BA:2	(FK:3 D)	BN:3	(FA:1 D)	CE:5	(CP:1 A)
BA:3	(FI:0 C)	BN:4	(FA:2 D)	CE:6	(CP:1 A)
BA:3	(FK:0 D)	BN:5	(FA:0 B)	CE:7	(CP:1 A)
BA:5	(FK:1 D)	BN:6	(FA:1 B)	CFB:16	(FG:2 C)
BA:7	(FI:3 B)	BN:7	(FA:1 B)	CFB:18	(FG:2 C)
BA:7	(FK:3 C)	BN:8	(FA:2 D)	CFD:1	(DM:3 C)
BA:8	(FK:1 D)	BN:9	(FA:0 B)	CFD:2	(DM:2 C)
BAB:1	(XA:4 D)	BN:10	(FA:1 D)	CFD:3	(DM:2 C)
BAB:2	(XA:2 D)	BN:11	(FA:1 B)	CFD:4	(DM:2 C)
BAB:3	(XA:3 D)	BN:12	(FA:1 B)	CFD:5	(DM:2 C)
BAB:4	(XA:2 D)	BN:13	(FA:1 B)	CFD:6	(DM:3 C)
BAB:5	(XA:3 D)	BN:14	(FA:0 D)	CFD:7	(DM:3 C)
BAB:6	(XA:2 D)	BN:15	(FA:1 D)	CFE:1	(FG:1 C)
BAB:7	(XB:3 D)	BN:16	(FA:1 D)	CFE:2	(FG:2 C)
BAB:8	(XA:3 C)	BN:16	(FG:1 C)	CFE:3	(FG:2 C)
BAB:9	(XA:2 C)	BN:17	(FA:1 D)	CFE:4	(FG:2 C)
BAB:10	(XB:3 D)	BN:18	(FA:1 D)	CFE:5	(FG:2 C)

CFE:6	(FG:2 C)	CLC:7	(HI:3 C)	CLG:6	(EE:3 B)
CFF:1	(CP:4 B)	CLC:8	(HI:1 C)	CLG:6	(EI:3 B)
CFF:2	(CP:3 B)	CLC:9	(HI:1 C)	CLG:6	(EO:1 C)
CFF:3	(CP:3 B)	CLC:10	(HI:4 C)	CLG:7	(EO:1 C)
CFF:4	(CP:4 C)	CLC:11	(HI:3 C)	CLG:8	(EO:1 C)
CFF:5	(CP:3 C)	CLC:12	(HI:2 C)	CLG:9	(EO:0 C)
CFF_2:1	(CP:4 B)	CLD:1	(IX:0 C)	CLG:10	(EO:0 C)
CFF_2:2	(CP:4 B)	CLD:2	(IX:0 C)	CLG:11	(EO:1 C)
CFF_2:3	(CP:3 B)	CLD:3	(IX:1 C)	CLG:12	(EO:1 C)
CFF_2:4	(CP:4 C)	CLD:4	(IX:1 C)	CLG:13	(EO:0 D)
CFF_2:5	(CP:3 C)	CLE:1	(IA:1 B)	CLG:14	(EO:0 D)
CLA:1	(IA:0 B)	CLE:2	(IA:3 B)	CLG:15	(EO:1 D)
CLA:2	(IA:1 B)	CLE:3	(BI:1 C)	CLG:16	(EO:3 C)
CLA:3	(BI:1 C)	CLE:4	(IA:1 E)	CLG:17	(EO:3 C)
CLA:4	(IA:0 D)	CLE:5	(IH:4 D)	CLG:18	(EO:3 C)
CLA:5	(IH:4 D)	CLE:6	(BI:3 C)	CLG:20	(EE:4 D)
CLA:6	(BI:3 D)	CLE:7	(BY:2 D)	CLG:20	(EI:4 C)
CLA:7	(BY:2 D)	CLE:7	(NK:0 D)	CLG:20	(EO:0 D)
CLA:7	(NK:0 D)	CLE:8	(IH:4 C)	CLG:21	(EI:0 C)
CLA:9	(AE:2 C)	CLE:9	(AE:1 C)	CLH:1	(FA:3 B)
CLA:10	(AE:2 C)	CLE:9	(FA:2 D)	CLH:1	(FK:2 B)
CLA:11	(AE:2 C)	CLE:10	(AE:1 C)	CLH:2	(FA:4 C)
CLA:12	(AE:2 C)	CLE:10	(FA:2 D)	CLH:3	(FA:2 B)
CLA:16	(IS:3 C)	CLE:11	(AE:1 C)	CLH:3	(FK:2 B)
CLA:17	(IS:3 C)	CLE:11	(FA:2 D)	CLH:4	(FG:0 C)
CLA:19	(IQ:3 C)	CLE:12	(AE:1 C)	CLH:4	(FK:2 B)
CLA:20	(BI:3 D)	CLE:12	(FA:2 D)	CLH:5	(FA:2 B)
CLA:21	(IQ:3 D)	CLE:13	(FA:3 D)	CLH:5	(FK:2 B)
CLB:1	(DB:1 C)	CLE:14	(FA:3 D)	CLH:6	(FA:2 D)
CLB:1	(DC:1 D)	CLE:15	(FA:3 D)	CLH:6	(FK:2 B)
CLB:2	(DB:1 C)	CLE:16	(FA:3 D)	CLH:7	(FA:2 D)
CLB:2	(DC:2 D)	CLE:17	(IS:2 C)	CLH:8	(FA:2 D)
CLB:3	(DB:0 C)	CLE:18	(IS:2 C)	CLH:9	(FA:2 D)
CLB:3	(DC:2 D)	CLE:19	(FA:3 D)	CLH:10	(FA:3 D)
CLB:4	(DB:0 C)	CLE:20	(BI:3 C)	CLH:11	(FA:3 D)
CLB:4	(DC:2 D)	CLF:1	(IR:1 B)	CLH:12	(FA:3 D)
CLB:5	(DB:0 B)	CLF:2	(IR:1 B)	CLH:13	(FM:0 B)
CLB:5	(DC:0 B)	CLF:3	(IR:1 C)	CLH:14	(FG:0 C)
CLB:5	(XB:2 E)	CLF:4	(IR:1 C)	CLH:15	(FG:0 C)
CLB:6	(DB:0 B)	CLF:5	(IR:0 B)	CLH:16	(FA:3 B)
CLB:6	(DC:0 B)	CLF:6	(IR:0 B)	CLH:17	(FA:3 B)
CLB:6	(XB:2 E)	CLF:7	(IR:0 C)	CLH:18	(FG:1 C)
CLB:7	(DB:0 D)	CLF:8	(IR:0 C)	CLH:19	(FG:1 C)
CLB:7	(DC:2 D)	CLF:9	(IR:0 C)	CLH:20	(FA:3 C)
CLB:8	(DB:0 D)	CLF:10	(DB:2 B)	CLH:21	(FA:3 D)
CLB:8	(DC:2 D)	CLF:10	(DM:1 C)	CLI:1	(EO:0 D)
CLB:9	(DB:0 C)	CLF:11	(DB:1 D)	CLI:2	(EO:1 D)
CLB:9	(DC:2 D)	CLF:11	(DM:0 D)	CLI:3	(EO:1 D)
CLB:11	(DB:3 C)	CLF:12	(DM:0 C)	CLI:4	(EO:1 D)
CLB:11	(DC:2 D)	CLF:13	(XA:3 D)	CLI:5	(EO:3 C)
CLB:12	(DC:2 D)	CLF:14	(XA:2 D)	CLI:6	(EO:3 C)
CLB:15	(DB:1 D)	CLF:15	(XB:3 D)	CLI:7	(EO:3 C)
CLB:15	(DC:2 D)	CLF:16	(XB:2 D)	CLI:8	(EO:3 C)
CLB_2:1	(DC:1 D)	CLF:17	(FG:1 C)	CLI:9	(EO:3 C)
CLB_2:2	(DC:2 D)	CLF:18	(XA:2 C)	CLI:10	(EO:3 C)
CLB_2:3	(DC:2 D)	CLF:19	(XA:2 C)	CLI:11	(EO:4 C)
CLB_2:4	(DC:2 D)	CLF:20	(XB:1 C)	CLI:12	(EO:4 C)
CLB_2:7	(DC:2 D)	CLF:21	(XB:1 C)	CLM:1	(BE:1 B)
CLB_2:8	(DC:2 D)	CLG:1	(EE:0 B)	CLM:2	(BE:1 B)
CLB_2:9	(DC:2 D)	CLG:1	(EI:0 B)	CLM:3	(BE:2 B)
CLB_2:11	(DC:2 D)	CLG:1	(EO:0 C)	CLM:4	(BE:1 C)
CLB_2:12	(DC:2 D)	CLG:2	(EE:0 B)	CLM:5	(BE:1 C)
CLB_2:15	(DC:2 D)	CLG:2	(EI:0 B)	CLM:6	(BE:3 C)
CLC:1	(HI:0 C)	CLG:2	(EO:2 B)	CLM:7	(BE:3 C)
CLC:2	(HI:0 C)	CLG:3	(EE:3 B)	CLM:8	(BE:3 C)
CLC:3	(HI:0 C)	CLG:3	(EI:2 B)	CLM:9	(FA:3 D)
CLC:4	(HI:2 C)	CLG:4	(EO:2 C)	CLN:1	(BY:1 B)
CLC:6	(HI:2 C)	CLG:5	(EO:2 C)	CLN:2	(BY:1 C)

CLN:3	(BY:2 C)	CUB:17	(GC:3 B)	DP:6	(BU:0 D)
CLN:4	(BY:2 C)	CUB:18	(IH:3 B)	DP:7	(BU:1 D)
CLN:5	(BY:2 C)	CUB2/CUB:11	(IU:0 B)	DP:8	(BU:1 D)
CLN:6	(BY:3 C)	CUB2/CUB:12	(KI:1 B)	DP:9	(BU:1 D)
CLN:7	(BY:3 C)	CUB2/CUB:13	(IM:0 B)	DP:10	(BU:1 D)
CLN:8	(BY:4 C)	CUB2/CUB:14	(HI:2 C)	DP:11	(BU:1 D)
CLN:9	(BY:1 D)	CUB2/CUB:15	(HI:2 B)	DP:12	(BU:1 D)
CLN:10	(BY:1 D)	CUB2/CUB:18	(IH:3 B)	DPA:1	(IM:2 C)
CLO:1	(BY:2 D)	CUC:1	(IH:3 C)	DPA:3	(IE:3 B)
CLO:2	(BY:3 D)	CUC:2	(IH:3 C)	DPA:4	(IE:3 B)
CLO:4	(BY:2 D)	CUC:3	(IH:1 B)	DPA:5	(IH:2 C)
CLO:5	(BY:2 D)	CUC:4	(IH:0 B)	DPA:6	(IE:3 B)
CUA:1	(GA:1 C)	CUC:5	(IH:3 B)	DPA:7	(IM:2 C)
CUA:2	(GA:4 C)	CUC:6	(IQ:1 C)	DPA:8	(IM:2 C)
CUA:3	(IH:1 B)	CUC:7	(IQ:0 C)	DPA:9	(IM:2 C)
CUA:4	(IH:0 B)	CUC:8	(IQ:1 C)	DPA:10	(IU:1 D)
CUA:5	(IH:3 B)	CUC:9	(IU:2 D)	DPA:11	(IU:2 D)
CUA:6	(IH:3 C)	CUC:10	(IU:2 D)	DPA:12	(IH:2 C)
CUA:7	(IQ:0 B)	CUC:11	(IU:2 D)	DS_L:1	(NU:2 C)
CUA:8	(KM:0 C)	CUC:12	(IU:2 D)	DS_L:2	(NU:2 D)
CUA:9	(NI:1 B)	CUC:13	(HI:1 B)	DS_R:1	(GQ:0 B)
CUA:10	(NI:1 B)	CUC:14	(HI:1 B)	DS_R:1	(NU:2 C)
CUA:11	(KI:1 C)	CUC:15	(HI:1 B)	DS_R:2	(GQ:0 C)
CUA:12	(IH:3 C)	CUC:16	(HI:1 B)	DS_R:2	(NU:2 D)
CUA:13	(IU:2 D)	CUC:17	(IH:3 B)	DZ:1	(BU:0 B)
CUA:14	(IU:2 D)	CUC:18	(IH:0 D)	DZ:2	(BU:1 B)
CUA:15	(IU:2 D)	CUC:19	(HI:3 B)	DZ:3	(BU:1 B)
CUA:16	(IU:2 D)	CUC:20	(HI:3 C)	E03_L-:1	(NI:2 D)
CUA:17	(HI:1 C)	CUC:21	(HI:2 A)	E03_L+:1	(NI:2 D)
CUA:18	(HI:1 B)	CUD:1	(IH:1 B)	E03_R-:1	(NI:2 D)
CUA:19	(HI:1 C)	CUD:2	(IH:1 B)	E03_R+:1	(NI:2 D)
CUA:20	(HI:1 C)	CUD:3	(IH:1 D)	E27:1	(GF:3 C)
CUA:21	(GB:0 B)	CUE:1	(IH:0 B)	E27:2	(GF:3 C)
CUB/TACH:1	(BM:1 A)	CUE:3	(IH:0 D)	E27:3	(GF:3 C)
CUB/TACH:2	(BM:3 C)	CUF:1	(HI:0 B)	E27:4	(GF:3 C)
CUB/TACH:3	(BM:1 A)	CUF:2	(HI:0 B)	E27:5	(GF:3 C)
CUB/TACH:4	(BM:2 A)	CUG:1	(NK:2 C)	E27:6	(GF:3 C)
CUB/TACH:5	(BM:3 A)	CUG:2	(NK:2 C)	E27:7	(GF:3 C)
CUB/TACH:6	(BM:3 C)	CUG:4	(NK:2 C)	E27_1:1	(GF:0 C)
CUB/TACH:7	(BM:2 C)	CUG:5	(NK:3 C)	E27_1:2	(GF:0 C)
CUB/TACH:8	(BM:2 C)	DDA:1	(IM:1 C)	E27_1:3	(GF:1 C)
CUB/TACH:9	(BM:2 C)	DDA:2	(IE:0 B)	E27_1:4	(GF:1 C)
CUB/TACH:10	(BM:2 C)	DDA:3	(IE:1 A)	E27_1:5	(GF:1 C)
CUB/TACH:11	(IU:0 B)	DDA:4	(IE:2 B)	E27_1:7	(GF:0 C)
CUB/TACH:12	(KI:1 C)	DDA:5	(IH:2 C)	EA:1	(CS:1 B)
CUB/TACH:13	(IM:0 B)	DDA:6	(IE:3 B)	EA:2	(CS:1 B)
CUB/TACH:14	(HI:2 B)	DDA:7	(IM:1 C)	EA:3	(CS:2 B)
CUB/TACH:15	(HI:2 B)	DDA:8	(IM:1 C)	EA:4	(CS:1 B)
CUB/TACH:16	(GC:3 B)	DDA:9	(IM:1 C)	EM:1	(CM:1 D)
CUB/TACH:17	(GC:3 B)	DDA:10	(IU:1 D)	EM:1	(CO:1 B)
CUB/TACH:18	(IH:3 A)	DDA:11	(IU:1 D)	EM:1	(CS:3 B)
CUB:1	(BN:1 B)	DDA:12	(IH:2 C)	EM:2	(CM:2 D)
CUB:2	(BN:3 C)	DDA:13	(IE:0 C)	EM:2	(CO:2 B)
CUB:3	(BN:1 B)	DDA:14	(IE:1 C)	EM:2	(CS:3 B)
CUB:4	(BN:3 B)	DDA:15	(IE:1 C)	EM:3	(CM:2 D)
CUB:5	(BN:3 B)	DDB:1	(IE:1 C)	EM:3	(CO:2 B)
CUB:6	(BN:3 C)	DDB:2	(IE:2 C)	EM:3	(CS:3 B)
CUB:7	(BN:2 C)	DDB:3	(IE:2 C)	EM:4	(CM:1 D)
CUB:8	(BN:2 C)	DDB:4	(IE:0 C)	EM:4	(CO:1 B)
CUB:9	(BN:2 C)	DDB:5	(IE:0 B)	EM:4	(CS:3 B)
CUB:10	(BN:2 C)	DDB:6	(IE:0 B)	EM:5	(CM:1 D)
CUB:11	(BN:3 C)	DDB:7	(IE:1 B)	EM:5	(CO:2 B)
CUB:11	(IU:0 B)	DDB:9	(IE:2 B)	EM:5	(CS:3 B)
CUB:12	(KI:1 B)	DP:1	(BU:0 A)	EM:6	(CM:2 D)
CUB:13	(IM:0 B)	DP:2	(BU:0 A)	EM:6	(CO:3 B)
CUB:14	(HI:2 C)	DP:3	(BU:1 D)	EM:6	(CS:2 B)
CUB:15	(HI:1 B)	DP:4	(BU:0 D)	EM:7	(CM:3 D)
CUB:16	(GC:3 A)	DP:5	(BU:0 D)	EM:7	(CO:4 B)

EM:8	(CS:2 B)	FE_B:3	(IF:1 A)	GB:1	(BI:2 C)
EM:9	(CM:1 D)	FE_BR:1	(IF:2 A)	GB:2	(BI:2 D)
EM:9	(CO:1 B)	FE_BR:2	(IF:2 A)	GB:3	(BM:2 D)
EM:9	(CS:3 B)	FE_BR:3	(IF:1 A)	GB:4	(BM:2 D)
EM:10	(CM:0 D)	FE2:1	(NC:1 B)	GB:5	(BM:2 D)
EM:10	(CO:3 B)	FE2:1	(NU:0 B)	GB:6	(BM:2 D)
EM:10	(CS:3 D)	FE2:2	(NC:0 B)	GC:1	(DE:0 B)
EM:11	(CM:2 D)	FE2:2	(NU:0 B)	GC:2	(DE:0 B)
EM:11	(CO:0 B)	FE2:3	(NC:1 B)	GC:3	(DE:0 B)
EM:12	(CM:0 D)	FE2:3	(NU:0 B)	GC:4	(DE:0 B)
EM:12	(CO:4 B)	FL:1	(GA:2 D)	GC:7	(DE:2 B)
EM:12	(CS:2 B)	FL:2	(GA:2 C)	GC:8	(DE:2 B)
EMB:1	(IF:0 D)	FL:3	(GA:2 C)	GC:10	(DE:3 E)
EMB:2	(IF:1 D)	FL:4	(NK:3 D)	GC:11	(DE:0 B)
EN:1	(AA:3 D)	FL:5	(NK:3 D)	GC:12	(DE:0 C)
EN:1	(AE:3 D)	FL:6	(GA:2 C)	GD:2	(HZ:1 C)
EN:2	(AA:3 D)	FL:7	(GA:2 C)	IDA:1	(GA:1 C)
EN:2	(AE:3 D)	FL:8	(GA:1 C)	IDB:1	(GA:0 D)
EN:3	(HG:0 D)	FL:9	(GA:3 C)	IS:1	(DE:3 B)
EN:3	(HY:2 D)	FL:10	(GQ:1 C)	IS:2	(DE:3 B)
EN:4	(AA:2 D)	FL:11	(GQ:1 B)	IS:3	(DE:2 C)
EPR:1	(CM:2 B)	FL:12	(GQ:1 B)	IS:4	(DE:2 C)
EPR:3	(CM:3 B)	FL:13	(GU:0 D)	JV/JC:1	(DB:0 D)
EPR:4	(CM:2 C)	FL:14	(GU:0 D)	JV/JC:2	(KA:1 D)
EQ_A:1	(EO:4 B)	FL:15	(GU:0 D)	JV/JC:3	(DQ:1 B)
EQ_A:2	(EO:4 B)	FL:16	(GQ:1 C)	JV/JC:4	(AE:3 B)
EQ_A:3	(EO:4 B)	FL:20	(BE:1 D)	JV/JC:5	(AE:3 B)
EQ_A:4	(EO:4 C)	FL:21	(BE:1 D)	JV/JC:6	(AE:3 B)
EXT:1	(HZ:1 B)	FL:22	(BE:1 D)	JV/JC:7	(AC:1 D)
EXT:2	(HZ:1 B)	FL:23	(BE:1 E)	JV/JC:7	(AE:4 D)
FA:1	(BI:4 B)	FL:25	(GA:2 D)	JV/JC:8	(CP:1 B)
FA:2	(FA:2 B)	FL:29	(KA:0 C)	JV/JC:8	(HI:3 D)
FA:3	(FA:2 B)	FMS:1	(BX:1 D)	JV/JC:9	(AA:3 B)
FA:5	(GA:2 C)	FMS:2	(BX:1 D)	JV/JC:9	(BA:0 C)
FA:5	(NI:1 A)	FR:1	(GA:3 D)	JV/JC:10	(FU:0 D)
FA:6	(BA:0 C)	FR:2	(GA:3 C)	JV/JC:11	(BA:3 C)
FA:7	(BI:1 C)	FR:3	(GA:3 C)	JV/JC:12	(BA:3 D)
FA:8	(GA:4 C)	FR:4	(NK:3 D)	JV/JC:13	(IM:2 C)
FA:8	(NA:0 A)	FR:5	(NK:4 D)	JV/JC:15	(BU:0 B)
FA:9	(GB:3 D)	FR:6	(GA:2 C)	JV/JC:16	(IM:2 A)
FA:9	(NA:0 A)	FR:7	(GA:3 C)	JV/JC:17	(HP:0 D)
FA:10	(GC:3 B)	FR:8	(GA:4 C)	JV/JC:18	(KM:1 C)
FA:10	(NA:0 A)	FR:9	(GA:3 C)	JV/JC:19	(BI:2 D)
FA:10	(NU:2 B)	FR:10	(GM:0 C)	JV/JC:20	(BU:1 B)
FA:11	(GB:0 A)	FR:11	(GM:0 C)	JV/JC:21	(IX:2 B)
FA:11	(NA:3 A)	FR:13	(GU:1 D)	KV/KC:1	(GB:0 B)
FA:12	(BA:1 D)	FR:14	(GU:1 D)	KV/KC:2	(GB:0 B)
FA:13	(GQ:2 C)	FR:15	(GU:1 D)	KV/KC:3	(GB:0 B)
FA:14	(AA:2 A)	FR:16	(GM:1 C)	LI:1	(FG:0 B)
FA:16	(GG:1 A)	FR:17	(BI:2 C)	LI:2	(FG:0 B)
FA:17	(GG:1 A)	FR:18	(BI:2 D)	LI:3	(FG:0 B)
FA:18	(GG:1 A)	FR:25	(GA:3 D)	LI:4	(FG:1 B)
FA:19	(GG:1 A)	FR:29	(KA:0 C)	LI:5	(FG:1 B)
FA:20	(GG:0 A)	FS:1	(KI:1 C)	LI:6	(FG:1 B)
FA:21	(GG:0 A)	FS:2	(KI:1 D)	MA:1	(CS:2 A)
FB:1	(KI:2 A)	FS:3	(KI:1 D)	MA:1	(HG:0 C)
FB:3	(KI:2 B)	FS_2:1	(KI:0 C)	MA:1	(HY:2 D)
FE:1	(ME:1 B)	FS_2:2	(KI:0 D)	MA:2	(AA:2 C)
FE:1	(NC:0 B)	FT:1	(IR:0 D)	MA:2	(CS:1 A)
FE:1	(NU:0 A)	FT:2	(IR:0 D)	MA:3	(CM:2 C)
FE:2	(ME:1 B)	FT:3	(IR:1 D)	MA:3	(CS:3 A)
FE:2	(NC:0 B)	GA:1	(GB:3 D)	MA:4	(CM:2 C)
FE:2	(NU:0 A)	GA:2	(BI:1 D)	MA:5	(CM:1 C)
FE:3	(ME:1 B)	GA:3	(BI:1 C)	MA:5	(CS:3 A)
FE:3	(NC:1 B)	GA:4	(BA:1 B)	MA:6	(CS:3 A)
FE:3	(NU:0 A)	GA:5	(BA:0 B)	MA:7	(CM:2 C)
FE_B:1	(IF:1 A)	GA:6	(BA:0 C)	MA:7	(CS:2 A)
FE_B:2	(IF:1 A)	GA:7	(BA:0 C)	MA:8	(CM:2 C)

MA:9	(AC:4 D)	PAS:6	(FP:0 D)	PT:3	(DN:1 B)
MA:9	(AE:4 D)	PH_1:1	(HM:0 B)	PT:4	(DE:0 B)
MA:11	(CM:1 C)	PH_1:2	(HM:0 B)	PT:4	(DN:1 B)
MA:11	(CP:0 A)	PH_1:3	(HM:2 B)	PT:6	(DE:0 B)
MA:11	(CS:3 A)	PH_1:4	(HM:1 B)	PT:6	(DN:0 B)
MA:12	(CM:0 C)	PH_1:5	(HM:2 B)	PT:7	(DE:0 D)
MA:12	(CS:4 A)	PH_1:6	(HM:2 C)	PT:7	(DN:0 B)
MA:13	(AA:3 D)	PH_1:7	(HM:2 D)	PT:8	(DN:0 B)
MA:13	(AE:3 D)	PH_1:8	(HM:0 D)	PT:9	(DN:0 B)
MA:13	(CS:1 A)	PH_1:9	(HM:0 D)	PW:1	(AB:4 C)
MA:14	(CM:3 C)	PH_1:10	(HM:3 D)	PW:2	(AB:3 C)
MA:15	(BA:0 D)	PH_1:11	(HM:1 B)	PW:3	(AE:0 C)
MA:15	(CM:1 C)	PH_2:1	(HP:0 B)	PW:4	(AE:1 C)
MA:15	(CP:0 A)	PH_2:2	(HP:0 C)	PW:5	(AE:1 D)
MA:15	(CS:3 A)	PH_2:3	(HP:0 D)	PW:6	(AE:1 D)
MA:16	(BI:0 D)	PL:1	(NC:3 C)	PW:7	(AE:2 D)
MA:16	(CS:1 A)	PL:2	(NA:1 C)	PW:8	(AE:2 D)
MA:17	(CM:0 C)	PL:3	(NA:1 C)	PW:9	(BI:2 D)
MA:17	(CU:0 C)	PL:4	(NA:1 C)	PW:10	(BI:2 C)
MA:19	(CP:0 A)	PL:5	(NA:2 C)	PW:11	(BI:2 C)
MA:19	(CS:2 B)	PL:6	(NA:2 C)	PW:12	(GB:0 D)
MA:20	(CP:0 A)	PL:7	(NC:1 C)	PW:13	(AB:2 B)
MA:20	(CS:2 A)	PL:7	(NU:1 C)	PW:14	(AE:2 D)
MB:1	(BI:2 D)	PL:8	(NA:4 C)	PW:15	(CM:3 B)
MB:2	(BA:0 C)	PL:9	(NC:1 C)	PW:16	(CM:2 B)
MB:4	(BA:1 B)	PL:9	(NU:1 C)	PW:17	(CM:2 C)
MB:5	(BI:2 C)	PL:10	(NC:2 C)	PW:18	(AB:0 B)
MB:8	(BI:1 D)	PL:10	(NU:2 C)	PW:19	(IQ:3 C)
MB:9	(BA:0 B)	PL:11	(NA:0 C)	PW:20	(IQ:3 D)
MB:14	(BI:1 C)	PL:12	(NA:1 C)	PW:21	(AB:0 B)
MB:15	(GB:3 D)	PL:13	(NC:2 C)	RA:1	(GC:2 E)
MB:16	(BA:0 C)	PL:13	(NU:1 C)	RA:2	(GC:1 B)
MC:1	(EO:0 D)	PL:14	(NC:2 C)	RA:3	(GC:1 B)
MC:2	(EO:1 D)	PL:14	(NU:1 C)	RA:4	(GC:1 B)
MC:3	(EO:1 D)	PL:15	(NC:2 C)	RA:5	(GC:2 B)
MC:4	(EO:1 D)	PL:15	(NU:2 C)	RA:6	(GC:2 B)
MC:5	(EO:1 D)	PL:16	(NC:2 C)	RA:7	(GC:1 B)
MC:6	(NU:2 C)	PL:16	(NU:2 C)	RA:8	(GC:1 B)
MC:7	(NU:2 D)	PL:17	(NC:2 C)	RA:9	(GC:2 B)
MC:8	(NK:1 C)	PL:17	(NU:2 C)	RA:10	(GC:2 B)
MC:9	(NK:1 D)	PL:18	(NA:3 C)	RA:11	(GC:2 B)
MOT:1	(HZ:2 C)	PL:19	(NC:3 C)	RA:12	(BI:2 C)
MOT:2	(HZ:2 C)	PL:20	(NC:3 C)	RA:13	(BI:2 D)
MOT:3	(HZ:1 C)	PL:20	(NU:2 C)	RA:14	(DU:3 C)
MOT:4	(HZ:2 C)	PL:21	(NC:3 C)	RA:15	(HI:0 C)
MP:1	(CO:3 C)	PL:21	(NU:3 C)	RA:15	(HM:0 D)
MT:1	(CS:1 C)	PS:1	(DI:0 C)	RA:16	(HI:0 C)
MT:2	(CS:1 C)	PS:2	(DI:0 C)	RA:16	(HM:0 D)
MT:3	(CS:3 D)	PS:3	(DI:0 C)	RA:17	(DU:3 C)
MT:5	(CS:2 D)	PS:4	(DI:0 C)	RA:19	(BY:2 D)
MT:6	(CS:2 D)	PS:5	(DI:0 C)	RC:1	(BY:3 D)
MT:7	(CS:2 D)	PS:6	(DI:0 C)	RC:2	(GG:0 B)
MT:8	(CS:2 D)	PS:7	(DI:1 C)	RC:2	(GK:0 A)
MT:9	(CS:4 B)	PS:8	(DI:1 C)	RC:3	(GG:0 B)
MT:10	(CS:4 B)	PS:9	(DI:1 C)	RC:3	(GK:1 A)
OH:1	(GE:1 B)	PS:14	(DI:1 C)	RC:4	(GG:0 B)
OH:2	(GE:2 B)	PS:15	(DI:1 C)	RC:4	(GK:1 A)
OH:3	(GE:1 B)	PS:16	(DI:1 C)	RC:5	(GG:0 B)
OH:4	(GE:2 B)	PS:17	(DI:1 C)	RC:5	(GK:1 A)
OH:9	(GE:1 B)	PS:18	(DI:1 C)	RC:6	(GG:0 B)
OH:13	(GE:1 B)	PS:19	(DI:1 C)	RC:6	(GK:1 A)
OH:14	(GE:2 B)	PS:20	(DI:1 C)	RC:7	(GG:1 B)
OH:17	(GE:1 B)	PS:21	(DI:1 C)	RC:8	(BY:3 D)
OH:18	(GE:3 B)	PT:1	(DE:0 B)	RC:9	(GG:1 B)
OH:24	(GE:1 D)	PT:1	(DN:1 B)	RC:10	(GG:1 B)
PAS:1	(FP:0 C)	PT:2	(DE:0 B)	RC:10	(GK:1 A)
PAS:2	(FP:1 C)	PT:2	(DN:1 B)	RC:11	(GG:1 B)
PAS:3	(FP:1 C)	PT:3	(DE:0 B)	RC:12	(GG:1 B)

RC:14	(GG:1 B)	SM_F:2	(GC:0 C)	SW_2:3	(EO:1 D)
RC:15	(GC:0 B)	SM_F:4	(GC:3 D)	SW_2:4	(EO:1 D)
RC:16	(GC:2 B)	SM_O:1	(GE:2 B)	SW_2:5	(EO:2 D)
RC:17	(GG:0 B)	SM_O:2	(GE:1 B)	SW_2:6	(EO:2 D)
RC:18	(GG:0 B)	SM_O:4	(GE:1 B)	SW_2:7	(EO:2 D)
RC:19	(GK:1 A)	SM_R:1	(GC:3 C)	SW_2:8	(EO:2 D)
RC:19	(KE:0 C)	SM_R:2	(GC:0 C)	SW_2:9	(EO:3 D)
RC:20	(GK:1 A)	SM_R:4	(GC:3 D)	SX:1	(GG:1 C)
RC:20	(KE:0 D)	SP:1	(BM:2 C)	SX:1	(GK:2 C)
RC:21	(CP:3 A)	SP:2	(BM:2 C)	SX:2	(GG:1 C)
RC:21	(GK:1 A)	SP:3	(BM:2 C)	SX:3	(GG:3 C)
RC_2:2	(GH:1 B)	SP:4	(BM:2 C)	SX:3	(GK:3 C)
RC_2:3	(GH:1 B)	SS:1	(BE:3 D)	SX:4	(GG:0 C)
RC_2:4	(GH:1 B)	SS:2	(BE:3 D)	SX:4	(GK:2 C)
RC_2:5	(GH:1 B)	SS:3	(BE:1 C)	SX:5	(GG:1 C)
RC_2:6	(GH:1 B)	SS:4	(BE:1 C)	SX:6	(GG:0 C)
RC_2:7	(GH:1 B)	ST:1	(GG:4 B)	SX:6	(GK:2 C)
RC_2:9	(GH:1 B)	ST:1	(GK:3 A)	SX:7	(GG:3 C)
RC_2:10	(GH:1 B)	ST_2:1	(GH:3 B)	SX:7	(GK:3 C)
RC_2:11	(GH:1 B)	ST_3:1	(CP:3 A)	SX:8	(GG:3 C)
RC_2:12	(GH:1 B)	SW_1:1	(EE:0 C)	SX:8	(GK:3 C)
RC_2:14	(GH:0 B)	SW_1:1	(EI:0 C)	SX:10	(GG:0 C)
RC_2:17	(GH:0 B)	SW_1:2	(EE:0 C)	SX:10	(GK:2 C)
RC_2:18	(GH:0 B)	SW_1:2	(EI:0 C)	SX:11	(GG:0 C)
RC_2:19	(GH:0 B)	SW_1:3	(EE:0 D)	SX:11	(GK:2 C)
RC_2:20	(GH:0 B)	SW_1:3	(EI:1 C)	SX:12	(GG:0 C)
REF:1	(IQ:3 C)	SW_1:4	(EE:1 C)	SX:12	(GK:2 C)
REF:2	(IQ:3 D)	SW_1:4	(EI:1 C)	SX:15	(GG:3 C)
REV:1	(NU:2 C)	SW_1:5	(EE:1 C)	SX:15	(GK:3 C)
RF:1	(IQ:3 C)	SW_1:5	(EI:1 C)	SX:18	(GG:1 C)
RF:4	(IQ:3 D)	SW_1:6	(EE:1 D)	SX:20	(GG:0 C)
RP:1	(DI:2 C)	SW_1:6	(EI:1 C)	SX:21	(GG:0 C)
RP:2	(DI:2 C)	SW_1:7	(EE:2 C)	SX:24	(GG:1 C)
RP:3	(DI:2 C)	SW_1:7	(EI:2 C)	SX:24	(GK:3 C)
RP:4	(DI:2 C)	SW_1:8	(EE:2 C)	SX:25	(GG:1 C)
RP:5	(DI:2 C)	SW_1:8	(EI:2 C)	SX:29	(GG:1 C)
RP:6	(DI:2 C)	SW_1:9	(EE:2 D)	SX:30	(GG:4 C)
RP:7	(DI:2 C)	SW_1:9	(EI:2 C)	SX:30	(GK:3 C)
RP:8	(DI:2 B)	SW_1:10	(EE:3 C)	SX:31	(GG:2 C)
RP:9	(DI:2 B)	SW_1:10	(EI:3 C)	SX:31	(GK:2 C)
RT:1	(DM:3 C)	SW_1:11	(EE:3 C)	TA:1	(GA:2 D)
RT:2	(DM:2 C)	SW_1:11	(EI:3 C)	TA:2	(GA:2 C)
RT:3	(DM:2 C)	SW_1:12	(EE:3 D)	TA:3	(GA:2 C)
RT:4	(DM:2 C)	SW_1:12	(EI:3 C)	TA:4	(KA:0 C)
RT:5	(DM:2 C)	SW_1:13	(EE:0 C)	TA:5	(NK:3 C)
RT:6	(DM:3 C)	SW_1:13	(EI:0 C)	TA:6	(GA:2 C)
RT:7	(DM:3 C)	SW_1:14	(EE:0 C)	TA:7	(GA:2 C)
SI:1	(GG:3 B)	SW_1:14	(EI:0 C)	TA:8	(GA:1 C)
SI:1	(GK:3 A)	SW_1:15	(EE:1 C)	TA:9	(GA:3 C)
SI:2	(GG:3 B)	SW_1:15	(EI:1 C)	TA:10	(GQ:1 C)
SI:2	(GK:3 A)	SW_1:16	(EE:1 C)	TA:11	(GQ:1 B)
SI:4	(GG:3 B)	SW_1:16	(EI:1 C)	TA:12	(GA:2 D)
SI:4	(GK:4 A)	SW_1:17	(EE:2 C)	TA:13	(GU:0 C)
SI:5	(GG:3 B)	SW_1:17	(EI:2 C)	TA:14	(GU:0 C)
SI:5	(GK:4 A)	SW_1:18	(EE:2 C)	TA:15	(GU:0 C)
SI_2:1	(GH:3 B)	SW_1:18	(EI:2 C)	TA:16	(GQ:1 C)
SI_2:2	(GH:3 B)	SW_1:19	(EE:3 C)	TA:17	(NK:3 C)
SI_2:4	(GH:3 B)	SW_1:19	(EI:3 C)	TA:18	(GM:0 C)
SI_2:5	(GH:3 B)	SW_1:20	(EE:3 C)	TA:19	(GM:0 C)
SI_3:1	(CP:3 A)	SW_1:20	(EI:3 C)	TA_2:1	(GI:1 D)
SI_3:2	(CP:3 A)	SW_2:1	(EO:3 D)	TA_2:2	(GI:2 B)
SLF:1	(NI:0 D)	SW_2:10	(EO:3 D)	TA_2:3	(GI:1 B)
SLF:2	(NI:0 E)	SW_2:11	(EO:4 D)	TA_2:6	(GI:1 B)
SLR:1	(NI:1 C)	SW_2:12	(EO:4 D)	TA_2:7	(GI:1 B)
SLR:2	(NI:1 C)	SW_2:13	(EO:3 D)	TA_2:8	(GI:1 B)
SLR_2:1	(NI:1 C)	SW_2:14	(EO:3 D)	TA_2:9	(GI:2 B)
SLR_2:2	(NI:1 C)	SW_2:15	(EO:4 D)	TA_2:12	(GI:1 D)
SM_F:1	(GC:3 C)	SW_2:2	(EO:3 D)	TB:1	(GA:3 D)

TB:2	(GA:3 C)	X02:1	(GK:3 E)	X04:3	(GK:2 E)
TB:3	(GA:3 C)	X02:2	(GG:3 E)	X04:4	(GG:2 E)
TB:4	(KA:0 C)	X02:2	(GK:3 E)	X04:4	(GK:2 E)
TB:5	(NK:3 C)	X02:3	(GG:3 E)	X04:5	(GG:2 E)
TB:6	(GA:2 C)	X02:3	(GK:3 E)	X04:5	(GK:2 E)
TB:7	(GA:3 C)	X02:4	(GG:3 E)	X04:6	(GG:2 E)
TB:8	(GA:4 C)	X02:4	(GK:3 E)	X04:6	(GK:2 E)
TB:9	(GA:3 C)	X02:5	(GG:3 E)	X04:6	(GG:2 E)
TB:10	(GM:0 C)	X02:5	(GK:3 E)	X04:7	(GK:2 E)
TB:11	(GM:0 C)	X02:6	(GG:3 E)	X04_2:1	(GH:2 D)
TB:12	(GA:3 D)	X02:6	(GK:3 E)	X04_2:2	(GH:2 D)
TB:13	(GU:1 C)	X02:7	(GG:3 E)	X04_2:3	(GH:2 D)
TB:14	(GU:1 C)	X02:7	(GK:3 E)	X04_2:4	(GH:2 D)
TB:15	(GU:1 C)	X02_2:1	(GH:3 D)	X04_2:5	(GH:2 D)
TB:16	(GM:1 C)	X02_2:2	(GH:3 D)	X04_2:6	(GH:3 D)
TB:17	(NK:4 C)	X02_2:3	(GH:3 D)	X04_2:7	(GH:3 D)
TB:18	(BI:2 D)	X02_2:4	(GH:3 D)	X05:1	(GG:3 E)
TB:19	(GQ:2 B)	X02_2:5	(GH:3 D)	X05:2	(GG:2 E)
TB:20	(GQ:0 C)	X02_2:6	(GH:3 D)	X05:3	(GG:2 E)
TB:21	(BI:2 D)	X02_2:7	(GH:3 D)	X05:4	(GG:2 E)
TB_2:1	(GI:3 D)	X03:1	(GG:0 E)	X05:5	(GG:3 E)
TB_2:2	(GI:3 B)	X03:2	(GG:0 E)	X05:7	(GG:3 E)
TB_2:3	(GI:3 B)	X03:3	(GG:1 E)	X06:1	(NC:3 D)
TB_2:6	(GI:2 B)	X03:4	(GG:1 E)	X06:2	(NA:1 D)
TB_2:7	(GI:3 B)	X03:5	(GG:0 E)	X06:3	(NA:1 D)
TB_2:8	(GI:2 B)	X03:6	(GG:0 E)	X06:4	(NA:1 D)
TB_2:9	(GI:3 B)	X03:7	(GG:0 E)	X06:5	(NA:2 D)
TB_2:12	(GI:3 D)	X03:8	(GG:1 E)	X06:6	(NA:2 D)
TB_2:18	(BI:0 E)	X03:9	(GG:1 E)	X06:7	(NC:1 D)
TB_2:21	(BI:0 D)	X03:10	(GG:1 E)	X06:7	(NU:1 D)
TD:1	(IE:0 C)	X03:11	(GG:1 E)	X06:8	(NC:4 C)
TD:2	(IE:0 D)	X03:12	(GG:1 E)	X06:9	(NC:1 D)
TD:3	(IE:0 C)	X03:13	(GG:1 E)	X06:9	(NU:1 D)
TD:4	(IE:1 C)	X03:14	(GG:0 E)	X06:10	(NC:2 D)
TD:5	(IE:1 C)	X03:15	(GG:0 E)	X06:10	(NU:2 D)
TD:6	(BI:3 C)	X03:2	(GG:0 E)	X06:11	(NA:0 D)
TD:7	(BI:3 C)	X03:3	(GG:1 E)	X06:12	(NA:1 D)
TD:8	(GM:3 D)	X03:4	(GG:1 E)	X06:13	(NC:2 D)
TD:9	(GM:3 C)	X03:5	(GG:0 E)	X06:13	(NU:1 D)
TD:10	(GM:3 C)	X03:6	(GG:0 E)	X06:14	(NC:2 D)
TD:11	(GM:2 C)	X03:7	(GG:0 E)	X06:14	(NU:1 D)
TD:12	(GM:2 C)	X03:8	(GG:1 E)	X06:15	(NC:2 D)
TD:13	(BI:3 D)	X03:9	(GG:1 E)	X06:15	(NU:2 D)
TD:15	(IE:1 C)	X03:10	(GG:1 E)	X06:16	(NC:2 D)
TD:16	(IE:1 D)	X03:11	(GG:1 E)	X06:16	(NU:2 D)
TD:17	(IE:1 C)	X03:12	(GG:1 E)	X06:17	(NC:2 D)
TD:18	(IE:2 C)	X03:13	(GG:1 E)	X06:17	(NU:2 D)
TD:19	(IE:2 C)	X03:15	(GG:0 E)	X06:18	(NA:3 D)
TD:20	(BI:3 C)	X03_2:1	(GH:1 D)	X06:19	(NA:3 D)
TD:21	(BI:3 C)	X03_2:2	(GH:1 D)	X06:20	(NC:3 D)
TDET:1	(GB:1 D)	X03_2:3	(GH:0 D)	X06:20	(NU:2 D)
TM:1	(OA:2 D)	X03_2:4	(GH:1 D)	X06:21	(NC:3 D)
TM:2	(OA:2 D)	X03_2:5	(GH:1 D)	X06:21	(NU:3 D)
TM:3	(OA:2 B)	X03_2:6	(GH:1 D)	X06:22	(NC:3 D)
TM:4	(OA:2 B)	X03_2:7	(GH:1 D)	X06:24	(NA:3 D)
TM:5	(OA:1 D)	X03_2:8	(GH:1 D)	X06:30	(NA:3 D)
TMA:1	(OA:2 C)	X03_2:9	(GH:1 D)	X06:31	(NA:4 D)
TMA:3	(OA:1 C)	X03_2:10	(GH:1 D)	X46:2	(BY:3 E)
TMA:5	(OA:2 B)	X03_2:11	(GH:1 D)	X46:3	(BY:2 E)
TMA:6	(OA:2 C)	X03_2:12	(GH:1 D)	X46:4	(BY:2 E)
TMA:7	(OA:2 B)	X03_2:13	(GH:1 D)	X46:5	(BY:3 E)
TS:1	(FG:0 A)	X03_2:14	(GH:0 D)	X46:6	(BY:3 E)
TS:2	(FG:0 A)	X03_2:15	(GH:0 D)	XA:1	(GB:0 B)
TS:3	(FG:0 A)	X04:1	(GG:2 E)	XA:2	(GB:1 B)
TS:4	(FG:1 A)	X04:1	(GK:2 E)	XA:3	(GB:1 B)
TS:5	(FG:1 A)	X04:2	(GG:1 E)	XA:4	(GB:1 B)
TS:6	(FG:1 A)	X04:2	(GK:2 E)	XA:5	(GB:1 B)
X02:1	(GG:4 E)	X04:3	(GG:2 E)	XA:6	(GB:1 B)

XA:7	(GB:2 B)	XE:1	(AA:3 D)	XK:16	(HY:1 B)
XA:8	(GB:2 B)	XE:1	(AC:2 D)	XK:17	(CU:0 B)
XA:9	(GB:2 B)	XF:1	(FA:4 B)	XK:18	(CU:0 B)
XA:10	(GB:0 B)	XF:2	(FQ:1 B)	XL:1	(BA:1 B)
XA:11	(GB:1 B)	XF:3	(ME:3 B)	XL:2	(IH:4 B)
XA:12	(GB:1 B)	XF:4	(KE:0 C)	XL:3	(BA:1 B)
XA:13	(GB:1 B)	XF:5	(FQ:0 B)	XL:4	(OA:2 B)
XA:14	(GB:1 B)	XF:6	(FQ:1 B)	XL:5	(BA:1 B)
XA:15	(GB:1 B)	XF:7	(KE:0 C)	XL:6	(BA:1 B)
XA:16	(GB:2 B)	XF:8	(KE:0 C)	XL:7	(DB:1 B)
XA:17	(GB:2 B)	XF:9	(AA:3 C)	XL:7	(DM:0 B)
XA:18	(GB:2 B)	XF:10	(FA:4 B)	XL:8	(BI:0 B)
XB:1	(AA:4 D)	XF:12	(KE:0 B)	XL:9	(BI:0 B)
XC:1	(BM:1 C)	XF:13	(BA:0 B)	XL:9	(OA:2 B)
XC:3	(IH:2 C)	XF:15	(FA:4 B)	XL:10	(DB:1 B)
XC:4	(HP:0 E)	XF:18	(GB:3 C)	XL:10	(DM:0 B)
XC:5	(HG:0 D)	XG:1	(AC:0 A)	XL:11	(BI:0 B)
XC:5	(HY:2 D)	XH:1	(AC:2 A)	XL:12	(BA:1 B)
XC:6	(BU:2 C)	XJ:1	(GM:2 C)	XL:13	(DQ:0 B)
XC:7	(BM:1 C)	XJ:2	(GM:1 D)	XL:14	(DU:1 B)
XC:8	(AE:2 C)	XJ:3	(HG:0 B)	XL:15	(BA:1 D)
XC:8	(NK:1 D)	XJ:4	(GQ:1 A)	XL:16	(BA:1 D)
XC:9	(DB:1 E)	XJ:6	(HG:0 B)	XL:17	(BA:1 D)
XC:9	(DM:0 E)	XJ:7	(GQ:2 A)	XL:18	(BA:1 D)
XC:10	(HP:1 E)	XJ:10	(GA:0 B)	XM:1	(AA:2 B)
XC:11	(BU:0 A)	XJ:11	(IM:0 B)	XM:2	(AA:2 B)
XC:12	(KI:1 C)	XJ:12	(BA:1 B)	XM:3	(AA:2 B)
XD:1	(BU:1 C)	XJ:13	(GA:0 B)	XM:4	(AA:2 A)
XD:1	(BX:1 D)	XJ:14	(IH:1 B)	XM:5	(AA:3 A)
XD:1	(BY:1 D)	XJ:15	(BA:0 B)	XM:6	(AC:3 D)
XD:2	(CU:1 C)	XJ:16	(IH:2 B)	XM:7	(AC:3 D)
XD:3	(CP:2 D)	XJ:17	(IH:1 B)	XM:8	(AC:3 D)
XD:4	(EE:4 D)	XJ:18	(IH:2 B)	XM:9	(AC:3 D)
XD:4	(EI:0 D)	XK:1	(BA:0 B)	XM:10	(AC:3 D)
XD:4	(EI:4 D)	XK:3	(GM:3 B)	XM:11	(AC:2 C)
XD:4	(EO:0 D)	XK:4	(BA:0 B)	XM:12	(BI:3 B)
XD:5	(DU:2 E)	XK:6	(GM:1 D)	XM:13	(AC:2 B)
XD:5	(EO:0 D)	XK:7	(BA:0 A)	XM:14	(AC:2 C)
XD:6	(FA:3 D)	XK:8	(BA:0 B)	XM:15	(BI:3 B)
XD:6	(FI:0 C)	XK:9	(DB:1 B)	XM:16	(AC:2 B)
XD:6	(FK:1 D)	XK:9	(DM:1 B)	XM:17	(AC:2 B)
XD:7	(GU:2 D)	XK:10	(HY:0 B)	XM:18	(BI:3 B)
XD:8	(IX:2 D)	XK:11	(DB:1 B)	XO:1	(AC:0 A)
XD:9	(BI:1 E)	XK:11	(DM:0 B)	XS:1	(AC:2 A)
XD:10	(IS:1 D)	XK:12	(DB:1 B)	XT:1	(AC:1 A)
XD:10	(OA:1 D)	XK:12	(DM:1 B)	Y18GH:1	(DN:2 B)
XD:11	(AA:2 C)	XK:13	(HY:0 B)	Y18GH:2	(DN:2 B)
XD:12	(NC:0 C)	XK:14	(IQ:1 B)	Y18GH:4	(DN:2 A)
XD:12	(NU:2 D)	XK:15	(IQ:2 B)		

List of components

A01	Fuse and Relay Centre (1000)	A41	Component group transmission. Contains B23, B138 and Y17 (DN:0 D/DE:0 C/DM:2 B) (1403/1499)
A02L	Fuse holder, 6-fuses (GB:0 D) (1000)	A42	Component group transmission. Contains B26, Y21, Y22, Y23 and Y26 (DN:2 D/DE:2 C) (1494/1499)
A02P	Fuse holder, 6-fuses (ME:2 C) (1000)	A43	Electric fan control (B32 fan speed sensor, Y35 visco clutch) (CO:1 D) (1030)
A02X	Fuse holder, 6-fuses (ME:3 C) (1000)	A45	Fuel pre filter (B52 water level sensor, R10 heater, Y38 water drain solenoid (CO:3 B) (1030)
A03	Instrument cluster (BI:0 B) (CP:2 D) (1000)	A44	Fuel filter bracket (B51 fuel pressure sensor, M15 priming pump) (CO:2 D) (1030)
A04A	Refrigerator (IQ:3 C) (1007B)	A54	Control unit, Coolant level (CS:2 D)
A04B	Refrigerator (IQ:3 C) (1460)	A59	Control unit, RAS (Rear Axle Steering) (FO:1 B) (1493)
A05	Display, FMS (Fleet Management System) (BU:2 D/IZ:0 D) (1000)	A75	Yawrate sensor and power supply unit, ACC (BE:2 C) (1007C)
A06L	El. adjustable seat (IA:2 B) (1007A)	A77	Control unit, Tyre pressure monitoring (OA:1 B) (1508)
A06R	El. adjustable seat (IA:0 B) (1007B)	A80	Airdryer, electrical controlled (FQ:1 C) (1056)
A07	Radio (IU:0 B) (1000)	A94	FMS Gateway, Fleet Management System (BX:0 B) (1000)
A08	Control unit, GPS receiver (Global Positioning System) (BU:2 D) (1000)	A96	Control unit, Roof cooler (HZ:1 B) (1018)
A09	Telephone (IX:0 C) (1000)	A102	Control unit, Volvo Link (VERS-SAM) (BY:1 C) (1000)
A10	CD player (IU:3 B)	A105	Serial Interface Box (BU:0 B) (1000)
A11	Control unit, door lock (IM:1 B) (1000)	A106	Fuse holder, 3-fuses, not mainswitch dependent (AB:3 B) (1000)
A12A	Control unit, ABS (Anti-lock Brake System) (EI:0 B) (1007C)	A109	Control unit, GSECU (Gearshift ECU) (DC:1 C) (1000)
A12B	Control unit, ABS (Anti-lock Brake System) (EE:0 B) (1007C)	A121	Logger, AUS (CP:1 B)
A13A	Control unit, TECU (automatic transmission) (DE:0 C)	B02A	Thermostat, parking heater (HI:1 B) (1006A/1006E)
A13B	Control unit, TECU (automatic transmission) (DI:0 B) (1007C)	B02B	Thermostat, parking heater (HI:0 B) (1006A/1006E)
A13C	Control unit, TECU (automatic transmission) (DM:0 C) (1007C)	B03_A	Sensor, footbrake valve (EO:0 D) (1504)
A13D	Control unit, TECU (automatic transmission) (DN:0 B)	B04	Sensor, engine speed, crankshaft (CO:0 D) (1030)
A14	Control unit, EMS (Engine Management System) (CO:2 C/CS:2 C) (1030)	B05	Sensor, engine speed, camshaft (CO:0 D) (1030)
A15	Control unit, SRS (Supplementary Restrain System) (IS:0 B) (1000)	B06	Sensor, air pressure, air tank (BA:2 D) (1000)
A16	Control unit, ECS (Electronic Controlled air Suspension) (FA:0 C/FG:0 D/FG:2 D) (1007C)	B07	Sensor, fuel level (BI:2 C) (1040)
A17	Control unit, VECU (Vehicle ECU) (BA:0 C) (1000)	B08	Sensor, input shaft speed, gearbox (DE:3 B)
A18	Control unit, roof hatch (IQ:0 C) (1006E)	B09A	Sensor, oil temperature, gearbox (DE:2 D)
A19A	Control unit, GECU (gear selector ECU) (Geartronic) (DB:1 C) (1007A/1007B/1484)	B09B	Sensor, oil temperature, gearbox (BI:2 C) (1494)
A20	Control unit, Immobiliser (IM:3 C) (1000)	B10	Sensor, oil level (CO:0 B) (1030)
A21	Control unit, EBS (Electronic Brake System) (EO:0 C) (1007C)	B10B	Sensor, oil level (FP:0 C) (1493)
A22	Control unit, FMS (Fleet Management System) (BU:0 C/IZ:3 B) (1000)	B10C	Sensor, oil level (FO:0 C) (1493)
A23	Control unit, FMS, TMC (Traffic Message Channel) (BU:3 B) (1000)	B12	Sensor, tachograph/speedometer (BM:2 D) (1494)
A24	Control unit, information module trailer without ABS (CP:3 C)	B12B	Sensor, tachograph/speedometer (BM:1 D) (1494)
A26	Control unit, ACC (Adaptive Cruise Control) (BE:1 B) (1007C)	B13A	Sensor, wheel speed, lhs. 1:st front axle (EI:0 D/EE:0 D) (1086)
A27	Control unit, LCM (Light Control Module) (GB:0 C/GC:0 A/GA:0 B) (1000)	B13B	Sensor, wheel speed, lhs. 1:st front axle (EP:1 B/EP:3 B) (1086)
A28B	Control unit, ADR main switch, integrated power relay (AE:0 C) (1435B)	B14A	Sensor, wheel speed, rhs. 1:st front axle (EI:1 D/EE:1 D) (1086)
A29	Telephone handset, secrecy receiver (IX:1 B) (1000)	B14B	Sensor, wheel speed, rhs. 1:st front axle (EP:2 B/EP:3 B) (1086)
A31	Control unit, burglar alarm (NK:0 C) (1000)	B15A	Sensor, wheel speed, lhs. 1:st driven rear axle (EI:2 D/EE:2 D) (1086)
A32	Control unit, parking heater (HM:0 C) (1062)	B15B	Sensor, wheel speed, lhs. 1:st driven rear axle (EP:1 D/EP:2 D) (1086)
A33	Tachograph (BM:1 B) (CP:1 D) (1000)	B16A	Sensor, wheel speed, rhs. 1:st driven rear axle (EI:3 D/EE:3 D) (1086)
A33B	Tachograph (/BN:1 B) (1006)	B16B	Sensor, wheel speed, rhs. 1:st driven rear axle (EP:1 D/EP:2 D) (1086)
A34B	Control unit, climate unit (HG:0 B) (1000)	B17	Sensor, wheel speed, lhs. 2:nd driven rear axle (EP:1 D) (1086)
A36	Control unit, BBM (Body Builder Module) (NC:1 B/NU:1 B) (1000)	B18	Sensor, wheel speed, rhs. 2:nd driven rear axle (EP:1 D) (1086)
A39	Control unit, camera (IZ:0 C) (1000)		
A40 HID	Fuse holder, 3-fuses (GD:1 C) (1000)		

B19	Sensor, wheel speed, lhs. 2:nd front axle (EP:1 B) (1086)	B58	Sensor, air pressure, suspension bellows, rhs. rear (FA:1 D) (1072)
B20	Sensor, wheel speed, rhs. 2:nd front axle (EP:2 B) (1086)	B59	Sensor, indoor temperature (HG:1 B) (1000)
B21	Sensor, coolant temperature, engine (CO:1 D) (1030)	B60_DD	Loudspeaker (IU:1 D) (1083)
B22	Sensor, outdoor temperature (BI:2 C) (1503)	B60_DP	Loudspeaker (IU:1 D) (1083)
B23A	Sensor, oil temperature, retarder (DE:1 D)	B60_LF	Loudspeaker (IU:0 D) (1000)
B23B	Sensor, oil temperature, retarder (DI:0 D) (1494)	B60_LR	Loudspeaker (IU:2 D) (1006D/1006E)
B24	Sensor, air pressure, bogie lift bellow (FA:0 D) (1072)	B60_RF	Loudspeaker (IU:1 D) (1000)
B25	Sensor, accelerator pedal (BA:4 D) (1000)	B60_RR	Loudspeaker (IU:2 D) (1006D/1006E)
B26A	Sensor, clutch position (DE:2 D)	B61_L	Loudspeaker, treble (IU:0 D) (1000)
B27	Sensor, battery charging (BI:2 C) (1435A/1435B)	B61_R	Loudspeaker, treble (IU:1 D) (1000)
B28	Sensor, chassi level, front axle (FA:1 D) (1072)	B64	Sensor, air pressure, valve unit gearbox (DE:1 D)
B29B	Sensor, chassis level, lhs. rear axle (FA:1 D) (1072)	B67	Rear view camera (IZ:2 D) (1000)
B30	Sensor, chassis level, rhs. rear axle (FA:2 D) (1072)	B68	Sensor, output shaft speed, gearbox (DI:2 D) (1494)
B34A	Sensor, gear position (DE:2 B)	B69A	Sensor, coolant temperature, retarder (DE:1 D)
B34B	Sensor, gear position (DE:3 B)	B69B	Sensor, coolant temperature, retarder (DM:3 B) (1403)
B35	Sensor, range gear position (DE:3 B)	B69C	Sensor, coolant temperature, retarder (DN:0 D) (1403)
B36	Sensor, split gear position (DE:3 B)	B70	Sensor, wheel speed, lhs., pusher axle (EP:3 D) (1086)
B37	Sensor, boost pressure and boost temperature (CO:0 D) (1030)	B71	Sensor, wheel speed, rhs., pusher axle (EP:3 D) (1086)
B38	Sensor, oil pressure and oil temperature (CO:1 D) (1030)	B72	Sensor, wheel speed, lhs., tag axle (EP:4 D) (1086)
B39	Sensor, air filter pressure and air filter temperature (CO:1 B/CS:1 D) (1030)	B73	Sensor, wheel speed, rhs., tag axle (EP:4 D) (1086)
B40A	Sensor, brake lining wear indicator, lhs. 1:st front axle (EP:2 B) (1086)	B74B	Sensor, brake lining wear indicator, lhs., pusher axle (EP:2 D) (1086)
B40B	Sensor, brake lining wear indicator, lhs. 1:st front axle (EP:0 B) (1086)	B75B	Sensor, brake lining wear indicator, rhs., pusher axle (EP:3 D) (1086)
B41A	Sensor, brake lining wear indicator, rhs. 1:st front axle (EP:3 B) (1086)	B76B	Sensor, brake lining wear indicator, lhs., tag axle (EP:3 D) (1086)
B41B	Sensor, brake lining wear indicator, rhs. 1:st front axle (EP:1 B) (1086)	B77B	Sensor, brake lining wear indicator, rhs., tag axle (EP:3 D) (1086)
B42A	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:1 D) (1086)	B80	Handsfree, Loudspeaker, Microphone (IX:0 B) (1007A/1007B)
B42B	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:0 D) (1086)	B90	Transmitter, movement sensor (NK:2 D) (1006B/1006E)
B42A	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:1 D) (1086)	B91	Receiver, movement sensor (NK:3 D) (1006B/1006E)
B42B	Sensor, brake lining wear indicator, rhs. 1:st driven rear axle (EP:0 D) (1086)	B118	Sensor, oil pressure (CO:1 D) (1030)
B43A	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:2 D) (1086)	B119	Sensor, oil level and oil temp (CO:0 B) (1030)
B43B	Sensor, brake lining wear indicator, lhs. 1:st driven rear axle (EP:2 D) (1086)	B120	Radar ACC, Adaptive Cruise Control (BE:1 D) (1502)
B44B	Sensor, brake lining wear indicator, lhs. 2:nd driven rear axle (EP:0 D) (1086)	B138A	Sensor, Control pressure retarder (DE:0 D) (1494)
B45B	Sensor, brake lining wear indicator, rhs. 2:nd driven rear axle (EP:0 D) (1086)	B138B	Sensor, Control pressure retarder (DI:3 B) (1494)
B46B	Sensor, brake lining wear indicator, lhs. 2:nd front axle (EP:0 B) (1086)	B151	Sensor, trailer detection (GB:1 C)
B47B	Sensor, brake lining wear indicator, rhs. 2:nd front axle (EP:2 B) (1086)	B152	Sensor, brake airpressure, front (BI:3 C)
B49	Sensor, steering angle (EO:3 A) (1000)	B153	Sensor, brake airpressure, rear (BI:3 C)
B49F	Sensor, steering angle (FO:1 D) (1493)	B154	Sensor, water level roof cooler (HZ:2 C) (1018)
B49R	Sensor, steering angle (FO:2 D) (1493)	D01	Time delay relay, bogie lift, axle load limiter (FK:3 B) (1007C)
B50	Sensor, yaw-rate (EO:4 B) (1507)	E01	Lamp, full beams (GA:2 C/GA:3 C) (1502/1503)
B51	Sensor, fuel pressure (CO:2 D) (1030)	E02	Lamp, dipped beams (GA:2 D/GA:3 D) (1502/1503)
B54	Sensor, crank case pressure (CO:0 B) (1030)	E03	Lamp, spot light (GA:1 C/GA:3 C) (1502/1503)
B55	Sensor, air pressure, suspension bellows, 3:th axle (FA:0 D) (1072)	E03A	Lamp, spot light (NI:2 C)
B56	Sensor, air pressure, suspension bellows, front axle (FA:0 D) (1072)	E03B	Lamp, spot light (NI:2 C)
B57	Sensor, air pressure, suspension bellows, lhs. rear (FA:0 D) (1072)	E03L	Lamp, spot light (GI:1 C) (NI:2 D)
		E03R	Lamp, spot light (GI:2 C) (NI:2 D)
		E05	Lamp, 5:th wheel light (KE:0 D/GH:0 D/GF:1 C) (1063)
		E06	Lamp, reversing light (GC:1 D/GC:2 D/GF:1 C) (1040)
		E07	Lamp, fog light (GA:1 C/GA:3 C) (1502/1503)
		E07L	Lamp, fog light (GI:1 C)
		E07R	Lamp, fog light (GI:3 C)
		E08	Lamp, parking light, front (GA:1 D/GA:3 D) (1502/1503)
		E08L	Lamp, parking light, front (GI:1 C)

E08R	Lamp, parking light, front (GI:1 C)	E39R	Licence Plate Illumination (GE:2 C) (1040)
E09	Lamp, brake light (GC:1 D/GC:2 D) (1040)	E74L	Lamp, parking light front direction indicator (GI:1 C)
E10	Lamp, tail light (GC:1 D/GC:2 D) (1040)	E74R	Lamp, parking light front direction indicator (GI:3 C)
E11_LC	Lamp, side marker light (GC:0 D) (1077)	G01A	Battery (AA:0 D/AB:1 D/AE:0 C/CS:0 C)
E11_LF	Lamp, side marker light (GC:0 D) (1077)	G01B	Battery (AA:0 D/AB:1 D/AE:0 D/CS:0 D)
E11_LR	Lamp, side marker light (GC:0 D) (1077)	G02	Alternator (AA:3 D/AE:3 D/CS:1 D) (1025)
E11_LW	Lamp, side marker light (GC:0 D) (1077)	G05	Battery, backup Volvo Link (VERS-SAM) (BY:0 C) (1000)
E11_RC	Lamp, side marker light (GC:3 D) (1077)	H01	Horn, air-operated (GQ:1 B) (1502)
E11_RF	Lamp, side marker light (GC:3 D) (1077)	H02	Horn (GQ:1 B) (1502)
E11_RR	Lamp, side marker light (GC:3 D) (1077)	H03	Reverse warner, acoustic (GF:0 C) (1040)
E11_RW	Lamp, side marker light (GC:3 D) (1077)	H06	Siren (NK:3 D) (1502/1503)
E12L	Lamp, roof position light (GA:4 C) (1006A)	K1	Relay, starting switch, radio position (AC:3 C) (1000)
E12R	Lamp, roof position light (GA:1 C) (1006A)	K2	Relay, EMS (Engine Management System) (BA:1 A) (1000)
E13	Lamp, direction indicator (GC:1 D/GC:2 D) (1040)	K3	Relay, starter motor (AA:2 B) (1000)
E13LF	Lamp, direction indicator (GA:2 C) (1502)	K3B	Relay, starter motor, Cummins (CS:1 C)
E13RF	Lamp, direction indicator (GA:3 C) (1503)	K4	Relay, body builder fuse box (kl.15) (ME:2 A) (1000)
E14_A	Lamp, beacon warning lamp (KM:2 D) (1047)	K5	Relay, automatic transmission (DB:1 A/DC:0 A/DM:0 A) (1000)
E14_AR	Lamp, beacon warning lamp (KM:1 C) (1047)	K6	Relay, fan climate unit (HY:0 B) (1000)
E14_B	Lamp, beacon warning lamp (KM:1 D) (1047)	K7	Relay, intermittent wiper (GM:1 C) (1000)
E14_BR	Lamp, beacon warning lamp (KM:2 C) (1047)	K8	Relay, gearbox area inhibitor (BA:1 A) (1000)
E15	Lamp, cigarette lighter illumination (IQ:2 C) (1000)	K9	Relay, interior lamps (IH:1 A) (1000)
E16_DS	Lamp, instep light (IH:2 C) (1083)	K10	Relay, fifth wheel-, working-light (KE:0 C) (1000)
E16_PS	Lamp, instep light (IH:2 C) (1083)	K11	Relay, air suspension (FA:4 B) (1000)
E17L	Lamp, interior light (IH:1 C) (1006B/1006E)	K12	Relay, reverse light, trailer (GB:4 D) (1000)
E17R	Lamp, interior light (IH:1 C) (1006B/1006E)	K13	Relay, alternator controlled (AA:4 B) (1000)
E18_C	Lamp, reading light (IH:0 C) (1006D)	K14	Time delay relay, bogie lift, A-ride (FI:1 B/FK:1 C) (1000)
E18_LB	Lamp, reading light (IH:0 C) (1006D/1006E)	K15	Time delay relay, bogie lift, A-ride, with axle load limiter (FK:2 C) (1000)
E18_RB	Lamp, reading light (IH:1 C) (1006D/1006E)	K16	Relay, bogie lift, A-ride, with axle load limiter (FK:1 C) (1000)
E18L	Lamp, reading light (IH:0 C) (1006D/1006E)	K18	Relay, hydraulic steered axle (FP:1 B) (1000)
E18LC	Lamp, reading light (IH:0 C) (1006C/1006E)	K20	Relay, D+ short-circuit, (ADR-trucks only) (AE:4 D) (1000)
E18R	Lamp, reading light (IH:1 C) (1006D/1006E)	K21	Relay, el. adjustable seat (IA:2 B) (1000)
E18RC	Lamp, reading light (IH:0 C) (1006C)	K22	Relay, climate fan, 1:st speed (by parking heater) (HY:1 B) (1000)
E19C	Lamp, identification light, roof (GA:0 C) (1006A/1436)	K23	Relay, cab tilt (KA:0 C) (1000)
E19L	Lamp, identification light, roof (GA:0 D) (1006A/1436)	K24	Relay, central lubrication (FU:0 B) (1000)
E19R	Lamp, identification light, roof (GA:0 C) (1006A/1436)	K25	Relay, light sign (KI:1 C) (1000)
E20	Lamp, ashtray illumination (IQ:2 C) (1000)	K26A	Relay, foldable rear view mirror arm, Japan (IF:0 C) (1000)
E21	Lamp, rear fog light (GC:1 D/GC:2 D) (1040)	K26B	Relay, foldable rear view mirror arm, Japan (IF:1 C) (1000)
E22	Lamp, roof sign illumination (KI:0 C) (1436)	K27	Relay, gas discharge lamp, dipped beam, lhs (GD:1 C) (1000)
E23	Lamp, luggage compartment illumination (IH:4 C) (1007A)	K28	Relay, gas discharge lamp, dipped beam, rhs (GD:1 C) (1000)
E24	Lamp, storage tray illumination (IQ:1 D) (1000)	K30	Relay, beacon warning light (KM:0 B) (1000)
E26L	Headlight module (GA:1 C) (1502)	K35	Relay, headlamp high pressure wash (GM:0 B) (1000)
E26R	Headlight module (GA:3 C) (1503)	K37	Relay, parking light (NA:1 C) (1000)
E27L_1	Tail lamp module (GC:1 D) (1040)	K38	Relay, body builder preparation, pressure sel./switch 2/free (NA:1 C) (1000)
E27L_2	Tail lamp module (GE:1 C) (1040)	K39	Relay, body builder preparation, plough light, spotlights (NA:1 C) (1000)
E27L_3	Tail lamp module (GF:3 C) (1040)	K40	Relay, body builder preparation (NA:2 C) (1000)
E27L_4	Tail lamp module (GF:0 C) (1040)	K41	Relay, body builder preparation, swapbody (NA:3 C) (1000)
E27R_1	Tail lamp module (GC:2 D) (1040)	K42	Relay, body builder preparation, spotlights/free (NI:1 B) (1000)
E27R_2	Tail lamp module (GE:2 C) (1040)	K43	Relay, body builder preparation, external start/free (NC:3 C) (1000)
E28	Parking heater (HI:0 C/HM:0 D) (1007A/1062)		
E30L	Lamp, full- and dipped beams (GI:1 C)		
E30R	Lamp, full- and dipped beams (GI:3 C)		
E32ATC	Climate unit (HY:2 C) (1000)		
E32ECC	Climate unit (HG:1 C) (1000)		
E33LF	Lamp, additional load lamps (revers lamps) (NA:0 D) (1506A)		
E33LR	Lamp, additional load lamps (revers lamps) (NA:1 D) (1506A)		
E33RF	Lamp, additional load lamps (revers lamps) (NA:1 D) (1506A)		
E33RR	Lamp, additional load lamps (revers lamps) (NA:1 D) (1506A)		
E34	Lamp, body builder centre light (IH:2 D) (1000)		
E39	Licence Plate Illumination (GF:3 B)		
E39L	Licence Plate Illumination (GE:2 C) (1040)		

K45	Relay, free reserved for body-builder (NU:2 B) (1000)	S06	Stalk switch, windscreen wiper, selector type (BI:3 B) (1000)
K48	Power relay, engine preheating (CM:2 B) (1435A/1435B)	S06	Stalk switch, windscreen wiper, selector type (GM:3 B) (1000)
K49	Power relay, bogie lift motor (FI:3 B/FK:3 D) (1037)	S07	Switch, engine brake, selector type (BA:3 B) (1000)
K51	Power relay, battery main switch (AB:0 C/CS:0 C) (1435A)	S07A	Switch, engine brake, selector type (CP:0 D)
K51_A	Power relay, battery main switch (AB:1 C) (1435A)	S07B	Switch, engine brake, selector type (CP:0 D)
K52	Power relay, ADR battery main switch (AE:0 B) (1435B)	S08	Switch, differential gear lock, rear wheels (DU:1 B) (1000)
K54	Relay, 12V ABS Trailer (CP:2 D)	S09	Switch, differential gear locks, inter axles and rear wheels, selector type (DU:1 B) (1000)
K58	Relay, speed limiter, Volvo link (BY:3 B) (1000)	S10	Switch, sign light, roof (KI:1 B) (1006A)
K59	Relay, engine shut off, Volvo link (BY:4 B) (1000)	S11	Switch, bogie lift, selector type (FI:0 B/FK:0 B) (1000)
K60	Relay, trailer lock, Volvo link (BY:3 D) (1000)	S11A	Switch, bogie lift, selector type (FA:3 B) (1000)
K61	Relay, auxiliary revers light, truck (NA:0 C) (1000)	S14A	Switch, push button, horn (GQ:1 D)
K63	Relay, ACC Adaptive cruise control (BE:1 B)	S14B	Switch, push button, horn (GQ:1 D)
L01	Reactor, light sign illumination (KI:0 D)	S15	Switch, starting (AC:1 B/AE:0 B) (1000)
L01L	Reactor, light sign illumination (KI:2 C)	S16	Switch, push button, air horn (GQ:2 D)
L01R	Reactor, light sign illumination (KI:2 D)	S17	Switch, front wheel drive (DU:2 B) (1000)
M01	Motor, windscreen wiper (GM:2 C) (1504)	S18	Switch, differential gear lock, front (DU:2 B) (1000)
M02	Motor, windscreen washer pump (GM:0 D) (1503)	S19	Switch, extra (NA:2 B)
M03	Motor, headlamp high pressure washer pump (GM:1 D) (1503)	S20	Switch, 3:rd axle lock (FO:2 B) (1000)
M04	Motor, starter motor (AA:2 D/AE:2 D/CS:0 C) (1025)	S21A	Switch, parking heater (HI:2 B) (1000)
M05	Motor, hydraulic bogie lift pump unit (FI:3 B/FK:3 C) (1037)	S21B	Switch, parking heater (HI:3 B) (1006D/1006E)
M06DS	Motor, window winder (IE:2 C) (1083)	S23	Switch, roof hatch, selector type (IQ:0 B) (1006A)
M06PS	Motor, window winder (IE:3 C) (1083)	S24	Stalk switch, retarder, selector type (BA:3 B) (1000)
M08	Motor, levelling control, headlights (GA:1 C/GA:3 C) (1502/1503)	S25	Switch unit, cruise control (BA:2 B) (1000)
M09DS	Motor, door lock (IM:1 D) (1083)	S26A	Switch, cab tilt pump (KA:0 B) (1000)
M09PS	Motor, door lock (IM:2 D) (1083)	S26B	Switch, cab tilt pump (KA:0 D) (1502/1503)
M10	Motor, roof hatch (IQ:0 E)	S27	Switch, storage tray illumination (IQ:1 C) (1000)
M11	Motor, cab tilt pump (KA:0 D) (1502/1503)	S28A	Switch, power take off (DQ:0 B) (1000)
M13	Motor, coolant pump, parking heater (HP:0 C) (1062)	S28B	Switch, power take off (NC:0 C/NU:0 B) (1000)
M14	Motor, central lubrication pump (FU:0 C) (1401)	S30	Switch unit, multi-function display (BI:3 B) (1000)
M17	Motor, foldable rear view mirror arm, Japan (IF:0 D) (1470)	S31	Switch, TCS (Traction Control System) (EO:1 A) (1000)
M27	Motor, roof cooler fan (HZ:1 C)	S32	Switch, brake hold (EO:1 B) (1000)
M28	Motor, washer, roof cooler (HZ:2 C) (1018)	S33	Switch, trailer brake (EO:0 B) (1000)
R01	Heater, engine preheat (CO:3 B) (1030)	S34	Switch unit, steering wheel push buttons (IS:1 D) (1000)
R02L	Heater, rear-view mirror (IE:0 D) (1504)	S36DS	Switch unit, door functions (IE:0 B) (1083)
R02R	Heater, rear-view mirror (IE:1 D) (1504)	S36PS	Switch unit, door functions (IE:3 B) (1083)
R04	Cigarette lighter (IQ:2 C) (1000)	S37	Switch, rear view camera, camera activation (IZ:1 B) (1000)
R05	Heater, air dryer (FQ:0 C) (1056)	S38	Switch, ADR, emergency switch, cab (AE:1 B) (1000)
R08	Termination resistor, CAN-bus (CS:3 B)	S39	Switch, ADR, emergency switch, exterior (AE:1 C) (1007A)
R11	Heater, coffee maker (ME:1 B) (1000)	S39_B	Switch, ADR, emergency switch, exterior (AE:2 C) (1007B)
R13	Resistor, LCP headlight adjust (GU:1 B) (1000)	S40	Switch, rear view camera, camera selection (IZ:2 B)
R14	Termination resistor (XB:2 D)	S43	Pressure switch, parking brake indicator, NC. (BA:1 D) (1000)
R17	Resistor (AB:2 B)	S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)
R14B	Termination resistor (DI:3 D)	S45R	Position switch, differential gear lock indicator, rear wheels, NC. or NO. (DU:3 C) (1040)
R17	Resistor (AC:4 C/AE:4 C) (1000)	S46	Pressure switch, bogie lift indicator, NO. (FI:2 D/FK:3 E) (1037)
R18	Heater, electronic controlled air dryer (FQ:1 C) (1056)	S47	Position switch, low split indicator, NO. (BI:1 D) (1494)
R21	Termination resistor (OA:3 C) (1000)	S48A	Pressure switch, brake light, NO. (ABS/UABS) (GB:3 B) (1401)
R33	Termination resistor (BE:2 D) (1502)	S48B	Pressure switch, brake light, NO. (ABS/UABS trailer control valve) (GB:3 B) (1401)
R34	Termination resistor (DE:0 B)	S48C	Pressure switch, brake light, NO. (ABS/UABS trailer control valve) (GB:3 A) (1000)
S01	Switch, main lighting, selector type (GA:0 A/GU:1 B) (1000)	S49	Position switch, reverse lamps, NO (GB:3 D) (1494)
S02	Stalk switch, full-/dipped beam, direction indicator (GA:2 B) (1000)		
S03	Switch, loading lamps/working lamps (KE:1 B) (1000)		
S04	Switch unit, climate fan (HY:1 B)		
S05A	Switch, interior light, selector type (IH:3 B) (1000)		
S05B	Switch, interior light, selector type (IH:3 B) (1006D/1006E)		

S52_L	Proximity switch, cab lock, NO. (BI:1 C) (1007A)	U03_B	Modulator, EBS, rear axle (EP:0 C) (1086)
S52_R	Proximity switch, cab lock, NO. (BI:1 D) (1007B)	U04_A	Modulator, EBS, pusher axle (EP:2 C) (1086)
S53	Position switch, front-wheel drive indication, NO. (DU:4 C) (1458)	U05_A	Modulator, EBS, trailer (EO:3 B) (1401)
S54	Position switch, differential gear lock, front-wheels, NO. (DU:4 C) (1458)	U06B11	Voltage converter (IR:1 B) (1007C)
S55	Thermal switch (HP:0 C) (1062)	U06R11	Voltage converter (IR:1 B) (1007C)
S56	Thermal switch, bogie lift, NC (FI:3 C/FK:3 D) (1037)	U06R19	Voltage converter (IR:0 B) (1007C)
S57L	Position switch, luggage compartment lighting, NC. (IH:4 D) (1007A)	U07_A	Modulator, EBS, tag axle (EP:3 C) (1086)
S57R	Position switch, luggage compartment lighting, NC. (IH:3 D) (1007B)	U08_A	Modulator, EBS, front (EP:2 A) (1086)
S58	Position switch, clutch pedal, NO. (BA:3 D) (1000)	U10	Voltage converter, 12V ABS Trailer (CP:4 B)
S59	Position switch, brake pedal, NO. (BA:3 D) (1000)	U12	Voltage converter, Volvo link, (VERS-SAM) (BY:1 B) (1000)
S60	Pressure switch, oil, power steering, NC. (FP:0 C) (1493)	V02	Diode module (AE:2 B) (1000)
S60A	Pressure switch, oil, power steering, NC. (FP:2 C) (1493)	V03	Diode (GG:3 B)
S60B	Pressure switch, oil, power steering, NC. (FP:2 C) (1493)	V04	Diode (FI:0 D/FK:0 D) (1037)
S63	Position switch, low range gear (BA:0 B) (1494)	V05	Diode (FK:2 D)
S64	Pressure switch, air pressure, parking brake tank, NC. (EO:1 B) (1000)	V07	LED, indicator, Alarm (NK:2 C) (1000)
S66_L	Switch unit, ECS (electronic controlled susp.), full air suspension (FA:2 D) (1007A/1007B)	V08	Diode (NU:2 B) (1000)
S68	Sensor, coolant level (CO:1 C/CS:3 D) (1030)	V09	Diode (CP:2 B)
S69	Proximity switch, bogie lift position, NO. (FK:1 D) (1037)	V10	Diode (CP:2 C)
S70	Position switch, flow sensor, power-steering, NC. (FP:2 C) (1493)	V11	Diode (CP:3 C)
S70A	Position switch, flow sensor, power-steering, NC. (FP:1 C) (1493)	W02	Antenna, immobiliser (IM:3 B) (1000)
S71	Pressure switch, compressor charging, NO. (BA:0 D) (1056)	X01	Connector, vehicle diagnostics (XA:0 C) (1000)
S73	Switch, acoustic reverse warning (GC:4 A) (1006A)	X01B	Connector, vehicle diagnostics (CP:1 B)
S74	Switch, short stop cab heater (HP:0 B) (1000)	X01C	Connector, vehicle diagnostics (CP:0 C)
S75	Switch, beacon warning light (KM:0 B) (1000)	X02	Trailer connection, ABS/EBS (1063)
S76	Switch, spotlights (NA:4 B)	X03	Trailer connection, 15-pole unit (1063)
S76A	Switch, spotlights (NI:4 C) (1006A)	X04	Trailer connection, 7-pole unit, 24 N (1063)
S77	Switch, emergency call (BU:1 B) (1000)	X05	Trailer connection, 7-pole unit, 24 S (1063)
S78	Switch unit, TIS (Traffic Information System) (BU:3 B) (1000)	X06	Connector, 31-pole, in lhs. frame side, for body builder preparations (1505)
S79A	Switch, additional work lamps (revers lamps), manual turn on (NA:1 B)	X07B	Socket, 12V (IR:1 D) (1000)
S79B	Switch, additional work lamps (revers lamps), manual turn on (NA:2 B)	X08	Contact reel, air bag (IS:0 C) (1000)
S79D	Switch, additional work lamps (revers lamps), manual turn on (NA:0 B)	X09	Slip contact, horn (GQ:1 C) (1000)
S80	Position switch, front hatch (NK:1 D) (1504)	X10	B+ pass through, cab (AC:0 B) (1000)
S83	Switch, container lock (NA:3 B)	X11	Power connector, engine (AA:2 D/AE:2 C/CS:0 D)
S84	Switch, tachograph mode (BN:0 C) (1006)	X12	Power connector (CO:3 B/CM:3 D)
S86	Switch, foldable rear view mirror arm, Japan (IF:1 B) (1000)	X16	Power connector, engine (CO:3 B/CM:3 D)
S88L	Position switch, door, NC (BY:2 D/NK:0 D) (1007A)	X25	Power connector, bogie lift/extra equipment (AA:1 B/AE:1 A)
S88R	Position switch, door, NC (BY:2 D/NK:0 D) (1007B)	Y02	Solenoid valve, differential lock, rear wheels (DU:1 D) (1401)
S95	Switch, Panic alarm (NK:2 A) (1000)	Y03	Solenoid valve, differential lock, inter axles, rear (DU:1 D) (1401)
S96	Switch, Reduced set, Alarm (NK:2 B) (1000)	Y05	Solenoid valve, bogie lift (FI:0 D/FK:0 D) (1037)
S165	Switch, Volvo Action Service, (VERS-SAM) (BY:2 B) (1000)	Y06	Solenoid valve, range inhibitor (BA:0 B) (1494)
S166	Switch, panic alarm, Volvo link, (VERS-SAM) (BY:3 B) (1000)	Y08	Solenoid valve, front-wheel drive (DU:2 D) (1458)
S169	Switch, battery main switch (AB:2 C) (1435)	Y09	Solenoid valve, differential lock, front axle (DU:2 D) (1458)
S171	Switch, GLU (Gearlever unit) (DC:1 D) (1007A/1484)	Y10	Solenoid valve, 3:rd axle lock (FM:0 C) (1072)
U01_A	Modulator, EBS, left front (EP:0 A) (1086)	Y11	Solenoid valve unit, ABS, lhs. front (EE:0 D/EI:0 D) (1086)
U02_A	Modulator, EBS, right front (EP:1 A) (1086)	Y11_A	Solenoid valve unit, ABS, lhs. front (EO:3 D) (1086)
U03_A	Modulator, EBS, rear axle (EP:1 C) (1086)	Y12	Solenoid valve unit, ABS, rhs. front (EE:1 D/EI:1 D) (1086)
		Y12_A	Solenoid valve unit, ABS, rhs. front (EO:4 D) (1086)
		Y13	Solenoid valve unit, ABS, lhs. rear (EE:2 D/EI:2 D) (1086)
		Y14	Solenoid valve unit, ABS, rhs. rear (EE:3 D/EI:3 D) (1086)
		Y17A	Solenoid valve, retarder (DE:0 D)
		Y17B	Solenoid valve, retarder (DI:2 D) (1494)
		Y18	Solenoid valve, PTO (Power Take Off) (DE:2 B) (1499)
		Y18A	Solenoid valve, PTO (Power Take Off) (DQ:0 D) (1401)
		Y18B	Solenoid valve, PTO (Power Take Off) (DI:0 C) (1494)

Y18C	Solenoid valve, PTO (Power Take Off) (NC:0 D/NU:0 C)	Y37	Solenoid valve unit, AVU (CO:2 C) (1030)
Y18G	Solenoid valve, PTO (Power Take Off) (DN:2 B) (1499)	Y39	Solenoid valve, VCB (CO:3 D) (1030)
Y18H	Solenoid valve, PTO (Power Take Off) (DN:2 B) (1499)	Y40	Solenoid valve unit, front axle, air suspension (FA:0 B) (1072)
Y21	Solenoid valve, slow clutch disengage (DE:2 D)	Y42	Clutch, magnetic, air conditioning compressor (HG:0 D/HY:2 D/CS:2 D) (1025)
Y22	Solenoid valve, fast clutch disengage (DE:3 D)	Y43L	Seat belt tensioner, pyrotechnical (IS:2 D) (1007A)
Y23	Solenoid valve, fast clutch engage (DE:3 D)	Y43R	Seat belt tensioner, pyrotechnical (IS:3 D) (1007B)
Y25	Solenoid valve unit, level control, air suspension (FA:1 B) (1072)	Y44	Air-bag, pyrotechnical (IS:0 D)
Y26	Solenoid valve, slow clutch control (DE:2 D)	Y48A	Solenoid valve, container lock (NA:3 D) (1506A)
Y29	Solenoid valve unit, trailing axle (FA:1 B) (1072)	Y48B	Solenoid valve, fifth wheel lock (NA:4 D) (1506A)
Y30A	Solenoid valve unit, gearbox (DE:0 B)	Y49	Solenoid valve, parking brake (NU:2 C) (1504)
Y30B	Solenoid valve unit, gearbox (DE:1 B)	Y51A	Solenoid valve, regeneration (FQ:2 C) (1056)
Y30C	Solenoid valve unit, gearbox (DI:0 D) (1494)	Y51B	Solenoid valve, compressor control (FQ:2 C) (1056)
Y31	Solenoid valve, area inhibitor (BA:1 B) (1494)	Y52	Clutch, magnetic, engine fan (CS:4 B)
Y32	Fuel dosing pump, parking heater (HI:0 B/HM:0 D) (1040)	Y53	Control valve block , RAS (FO:3 D) (1493)
Y33	Solenoid valve, UI (Unit Injectors) (CO:3 D) (1030)	Y72	Solenoid valve, Airhorn (GQ:0 B) (1504)
Y36	Solenoid valve, steerable axle (FP:1 C) (1493)	Y88	Solenoid valve, trailing axle, air suspension, bogie lift (FA:2 B) (1072)

Abbreviations

ABS	Antilock brake system	GSS-RC	Range gear shifting, cable manoeuvred
ACC	Adaptive cruise control	GSS-SRC	Split and range gear shifting, cable manoeuvred
ACU	Alarm control unit	ISX	Engine variant (Australia only)
ADR-BAS1/ ADR1	ADR adaptation, 1 switch	JPN	Japan
ADR2	ADR adaptation, 2 switches	L	Left
AIRDRY-E	Electric airdryer	LCM	Light control module
ATB	Axle load limiter	L1H1	Short cab
ATC	Automatic temperature control	L2H1	Long cab
AUS	Australia	L2H2	Long high cab (Globetrotter)
AUXSW-6	Wiring for six auxiliary switches for body building	LF	Left front
AWD	All wheel drive	LHD	Left hand drive
BBM	Body builder module	LHS	Left hand side
BBOX-R	Battery box right hand side	LOCK-ALL	Central door lock and cut off electricity of truck
CLU	Central locking unit	LR	Left rear
CU-ACAUT	Air condition, automatic	MAINSWI	Main switch
CU-ACMAN	Air condition, manual	MECHTRAN	Mechanical transmission
CU-BAS	Basic version with stepper motor without air condition	MMS	Mechanical main switch
CU-ECC	Electronic controlled climate control air condition	PH-CAB	Cab parking heater
CU-HEAT	Heater unit	PH-ENGCA	Engine and cab parking heater
CU-MCC	Manual controlled climate control air condition	PS	Passenger side
DS	Driver side	PSS-DUAL	Power steering system dual
EBS	Electronic brake system	PTO	Power take off
ECS	Electronic controlled air suspension	R	Right
ELCE-CK	Electrical complete kit for body builder	RADT-A8	6x2, air spring, 8 bellows, tag axle
ELMS	Electrical main switch	RADT-AR	6x2, leaf spring (A-ride)
ENG-VE9	Volvo engine 9 litre	RF	Right front
ENG-VE12	Volvo engine 12 litre	RHD	Right hand drive
ENG-VE16	Volvo engine 16 litre	RHS	Right hand side
EPG	Exhaust pressure governor	RIGID	Platform or tipper truck
ESP	Electronic stability program	RR	Right rear
FAA10	1 front axle, non driven	RSTS-EHY	Rear steering system, electrical controlled, hydraulic
FAA20	2 front axle, non driven	RSTS-HY	Rear steering system, hydraulic
FMS	Fleet management system	SI-GRAF	Tachograph
FSS-LEAF	Leaf suspension, front	SI-GRAFR	Tachograph
GECU	Gear selector electronic control unit	SI-SPEED	Speedometer
GSS-AGS	Automatic gear shifting system	SPEED-DU	Dual speed limiter
		SRS	Supplementary restrain system
		STWPOS-L	Steering wheel position left hand side

STWPOS-R	Steering wheel position right hand side	UALARMB	Without alarm
SUSPL-EC	Air suspension, electronic control system levelling device	UJERICO	Without Jerico horn
SUSPL-M	Air suspension, manual regulation levelling device	UMAINSWI	Without main switch
SWAPBODY	Swap body	URETARD	Without retarder
SWM	Steering wheel module	USUSPLEV	Without air suspension levelling device
TECU	Transmission electronic control unit	USWS	Without steering wheel switches
TMC	Traffic message channel	UTPM	Without tyre pressure monitoring
TPM	Tyre pressure monitoring	VECU	Vehicle electronic control unit
TRACTOR	Semi-trailer tractor	VERS-SAM	South American Version
TREL7-7	Trailer connectors 2x7-unit	ZT1816	Gearbox variant (South America only)
UADR	Without ADR adaptation		

Cable colour code

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

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 literature, your opinions and experience when using this manual would be greatly appreciated.

If you have any comments or suggestions, make a copy of this page, write down your comments and send them to us, either via telefax or mailing directly to the address listed below.

To

Volvo Parts Corporation

Dept. Technical Support Center 31610
SE-405 08 GÖTEBORG

Fax +46 31 661060

From

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Comments/proposals

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Concerns Service Manual:

VOLVO

Volvo Truck Corporation

Göteborg, Sweden