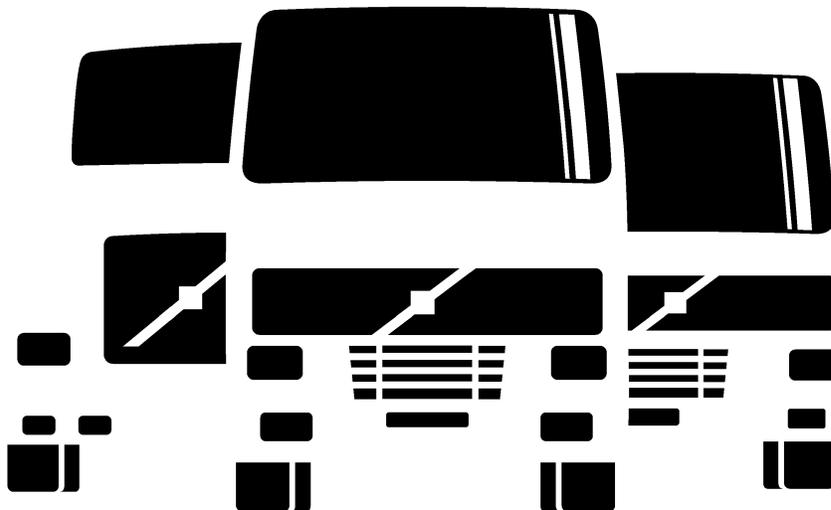


Service Manual Trucks

Group **37**

Electrical Schematic
VN, VHD VERSION2

From Build Date September 2004



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to December 2004.

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 believed 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 an 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 an V.S.T.

Each section of this manual contains specific safety information and warnings which must be reviewed before performing any procedure. If a printed copy of a procedure is made, be sure to also make a printed copy of the safety information and warnings that relate to that procedure. 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 Trucks North America, Inc.
Greensboro, NC USA

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Order number: PV776-20018063

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VN, VHD

Electrical Schematics

For instructions on using the schematics, see service information on “Wiring Diagram User Guide” in Group 37.

Also see:

[“Reference List: Fuses” page 147](#)

[“Reference List: Components” page 155](#)

[“Reference List: Inline Connectors” page 176](#)

[“Glossary” page 192](#)

[“Wire Color Codes” page 193](#)

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AC	Grounding (1 of 2)	Fig. 3: AC page 8
AD	Grounding (2 of 2)	Fig. 4: AD page 9
BA	Vehicle ECU (1 of 2)	Fig. 5: BA page 10
BB	Vehicle ECU (2 of 2)	Fig. 6: BB page 11
BC	Instrument cluster, Connectors A and B	Fig. 7: BC page 12
BD	Instrument cluster, Connector C	Fig. 8: BD page 13
BE	Instrumentation, Qualcomm	Fig. 9: BE page 14
BF	Instrumentation, Volvo Link	Fig. 10: BF page 15
BG	Bodybuilder Options, VHD	Fig. 11: BG page 16
BH	Road Relay	Fig. 12: BH page 17
BI	Bodybuilder Module	Fig. 13: BI page 18
BJ	Touch Lock	Fig. 14: BJ page 19
BK	Secondary Instrument Cluster	Fig. 15: BK page 20
CA	Engine Control Common	Fig. 16: CA page 21
CB	Engine Interface, D12	Fig. 17: CB page 22
CC	Engine Control, ISX and ICON	Fig. 18: CC page 23
CE	Fuel filter heater	Fig. 19: CE page 24
CF	Engine brake switches	Fig. 20: CF page 25
CH	Inside/outside air cleaner, VHD	Fig. 21: CH page 26
CI	Engine Control, Cummins ISX without ICON	Fig. 22: CI page 27
CO	Engine Electronics, D12D	Fig. 23: CO page 28
CU	Volvo Temp A Start	Fig. 24: CU page 29
DB	Transmission ECU, Autoshift II	Fig. 25: DB page 30

DC	Transmission ECU, Lightning	Fig. 26: DC page 31
DD	Transmission ECU, Meritor G	Fig. 27: DD page 32
DE	Transmission ECU, Allison, VHD (1 of 2)	Fig. 28: DE page 33
DF	Transmission ECU, Allison, VHD (2 of 2)	Fig. 29: DF page 34
DG	Transmission ECU, Freedomline	Fig. 30: DG page 35
DP	PTO	Fig. 31: DP page 36
EA	ABS ECU	Fig. 32: EA page 37
EB	Suspension ECU 6x2	Fig. 33: EB page 38
FA	Air Dryer / Heated Drain Valve	Fig. 34: FA page 39
FB	Lift Axle, VHD	Fig. 35: FB page 40
FC	Chassis Air Solenoids, VHD	Fig. 36: FC page 41
FD	Chassis Air Solenoids, VN	Fig. 37: FD page 42
FE	Central Tire Inflation system	Fig. 38: FE page 43
GA	LCM Lighting Control Module (1 of 2)	Fig. 39: GA page 44
GB	LCM Lighting Control Module (2 of 2)	Fig. 40: GB page 45
GC	Marker Lights	Fig. 41: GC page 46
GD	Driving / Signal Lights	Fig. 42: GD page 47
GE	Driving / Fog Lights	Fig. 43: GE page 48
GF	Tail Lights and Alarm	Fig. 44: GF page 49
GG	Back of Cab Lights, Daycabs	Fig. 45: GG page 50
GH	Back of Cab Lights, Sleeper cabs	Fig. 46: GH page 51
GI	Snowplow and Beacon Lights	Fig. 47: GI page 52
GP	Windshield Wiper/Washer	Fig. 48: GP page 53
GQ	Horn	Fig. 49: GQ page 54
HA	Climate Control Unit	Fig. 50: HA page 55
HB	Climate Control Unit, Bunk	Fig. 51: HB page 56
HC	Shore Power/Inverter	Fig. 52: HC page 57
HD	Bunk Functions/Refrigerator (VN 430, 630, 670)	Fig. 53: HD page 58
HE	Bunk Functions/Refrigerator/Sink (VN 780)	Fig. 54: HE page 59
HF	L3 Sleeper Functions without LECM	Fig. 55: HF page 60
HG	Sleeper Climate Control without LECM L3	Fig. 56: HG page 61
IA	Interior Courtesy Lights	Fig. 57: IA page 62
IB	Power Seats	Fig. 58: IB page 63
IC	Power Windows/Electric Mirrors	Fig. 59: IC page 64
ID	Power Windows/Mirrors without DCP	Fig. 60: ID page 65

IE	Door Functions/Internal Lights	Fig. 61: IE page 66
IF	Cigar Lighter/Auxiliary Power (Cab Front)	Fig. 62: IF page 67
IG	Smoke Detector	Fig. 63: IG page 68
JA	SRS Airbag	Fig. 64: JA page 69
JB	VORAD	Fig. 65: JB page 70
JC	Steering Wheel Module/Marker Interrupt Switches	Fig. 66: JC page 71
KA	Audio System, 4-speaker	Fig. 67: KA page 72
KB	Audio System, 6-speaker	Fig. 68: KB page 73
KC	Audio System, 6-speaker with subwoofer, TV Prep	Fig. 69: KC page 74
MA	Trailer Cable	Fig. 70: MA page 75
NA	Auxiliary switches	Fig. 71: NA page 76
XA	Diagnostics	Fig. 72: XA page 77

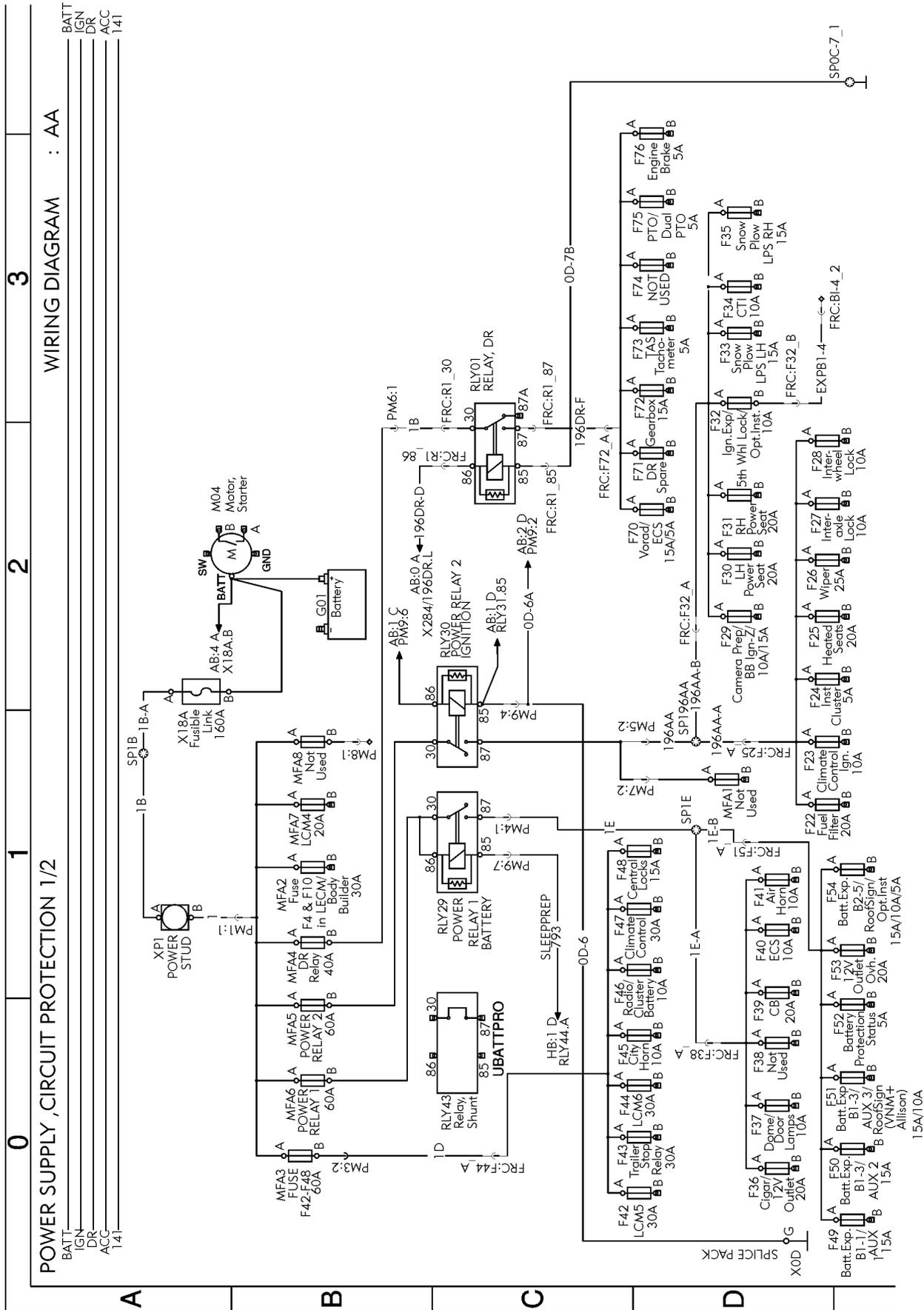


Fig. 1: AA

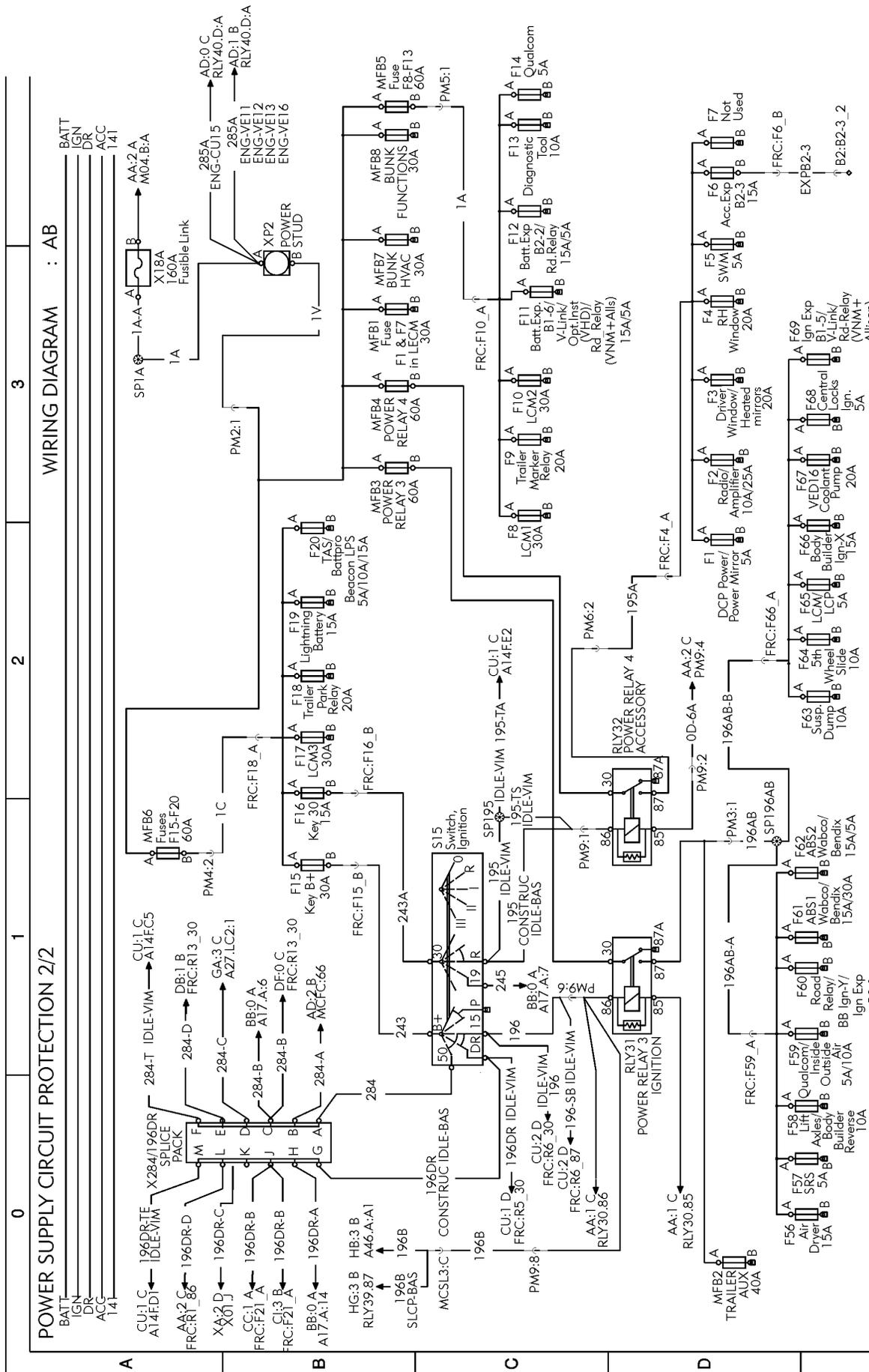


Fig. 2: AB

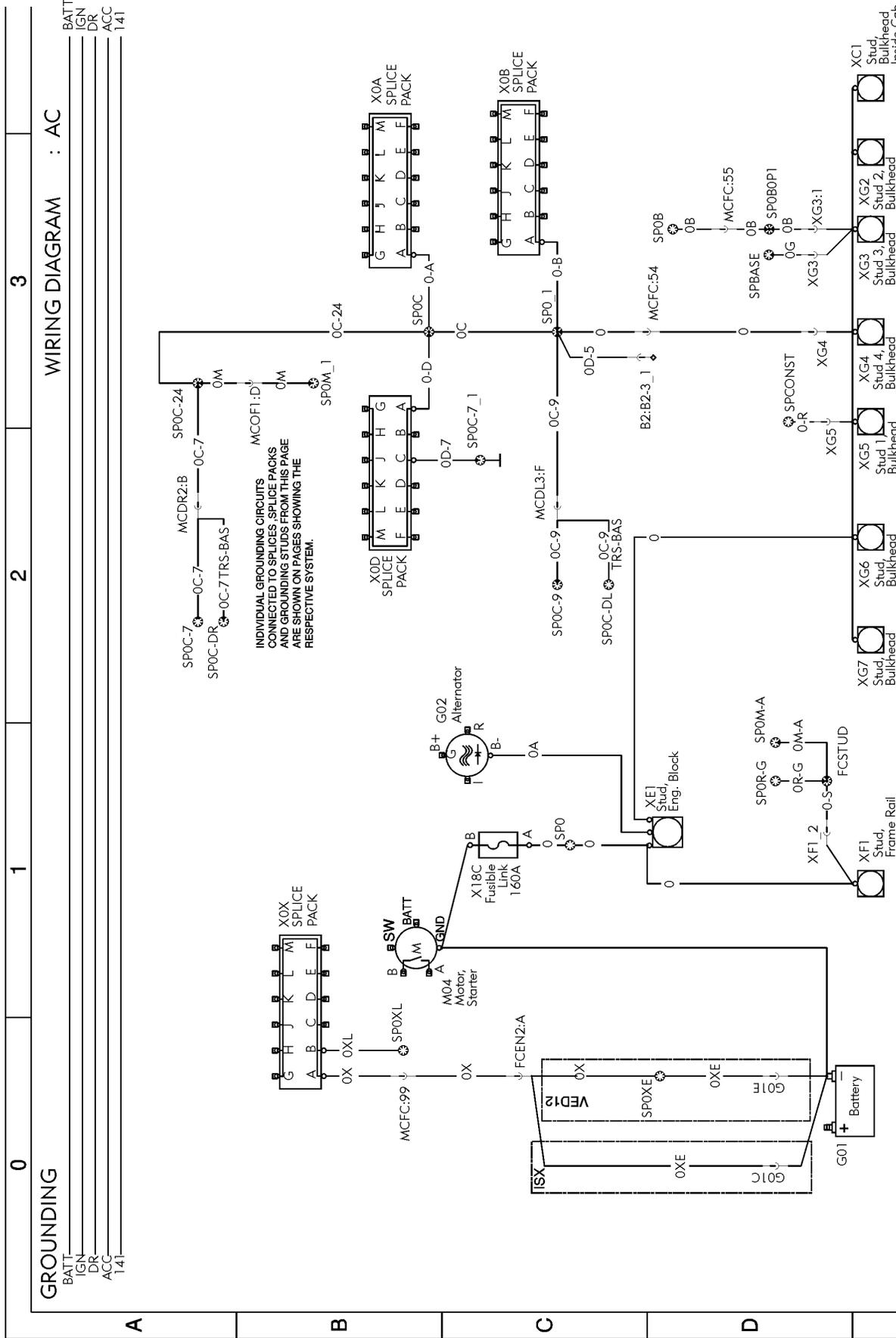


Fig. 3: AC

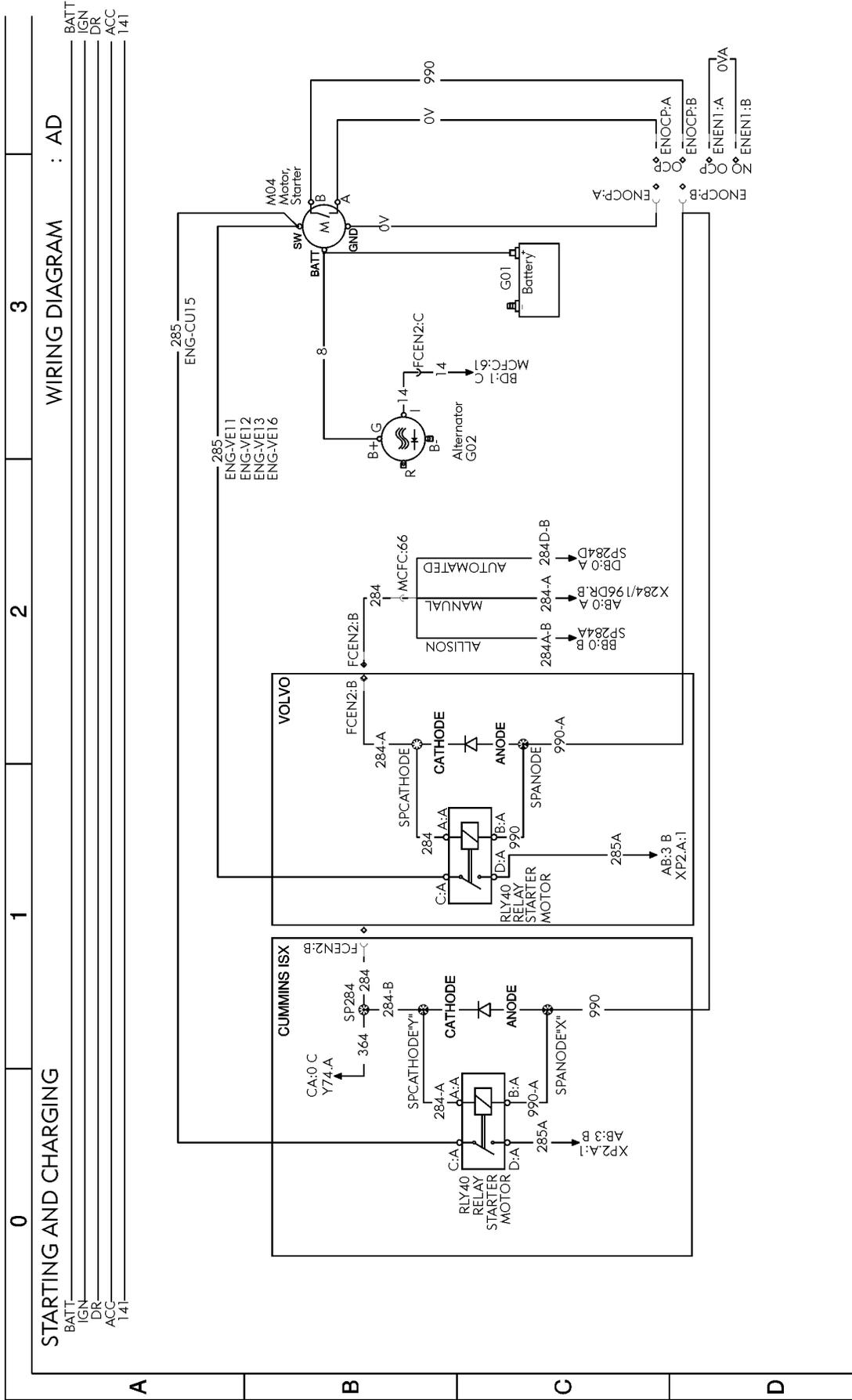


Fig. 4: AD

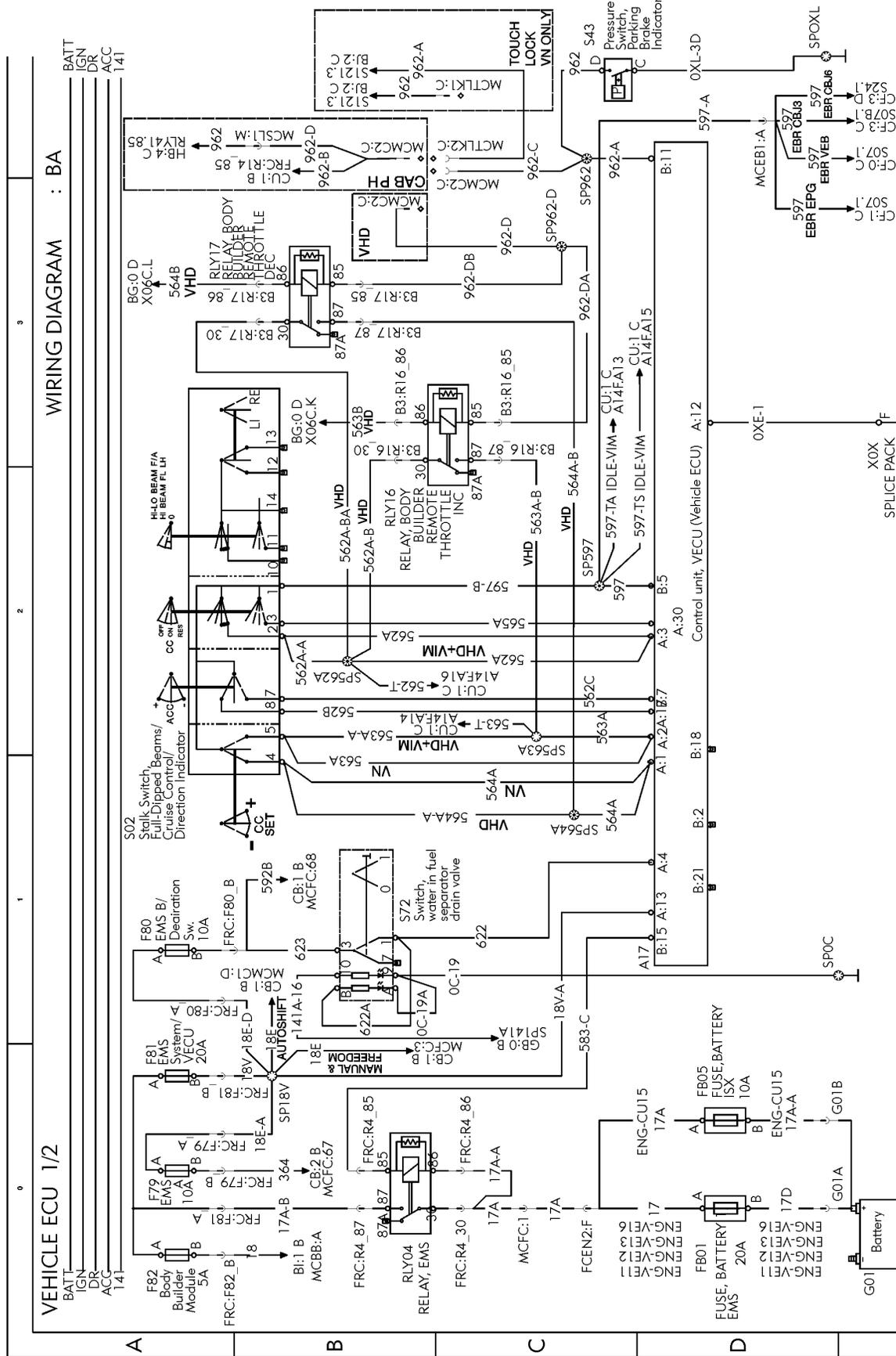


Fig. 5: BA

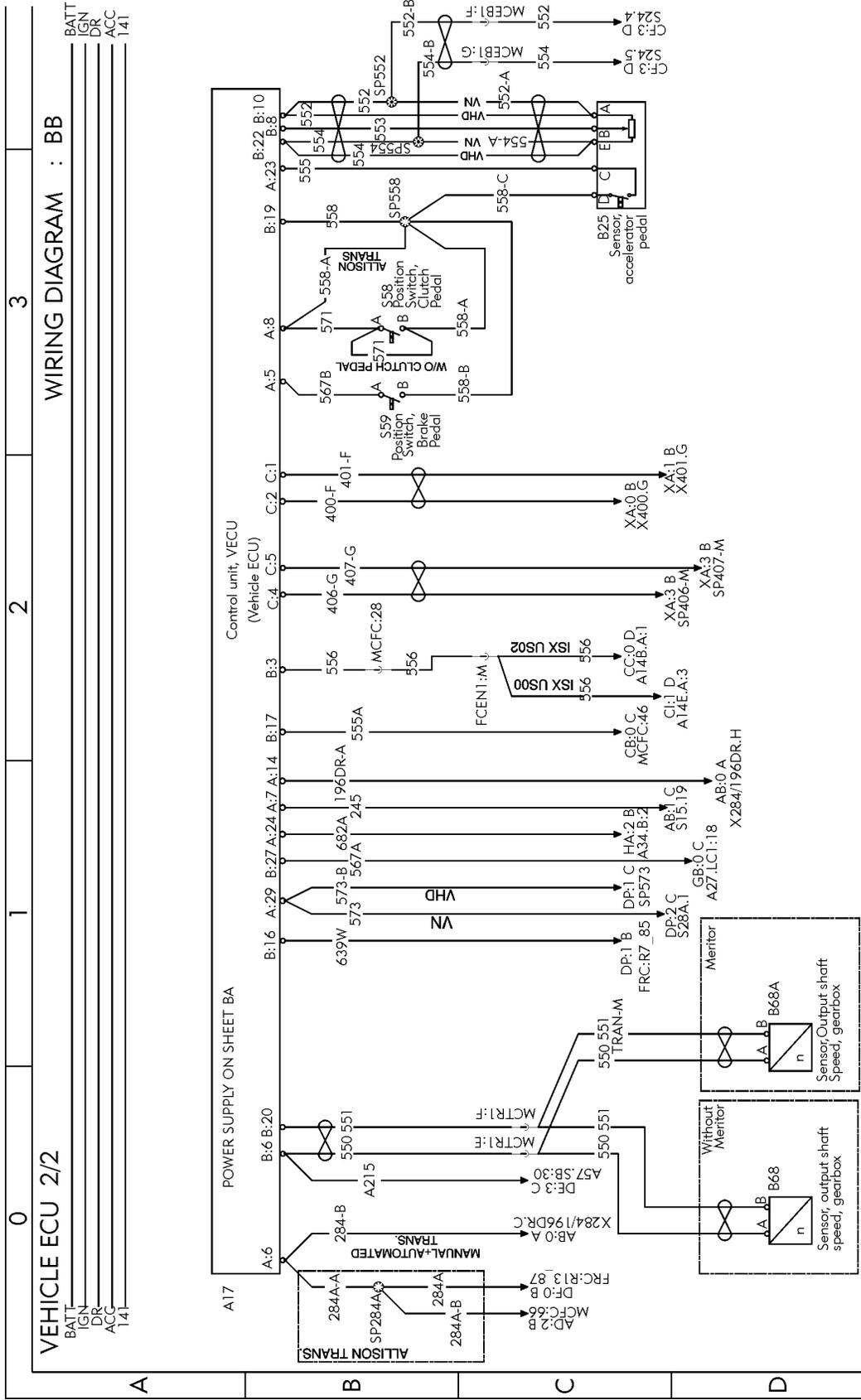


Fig. 6: BB

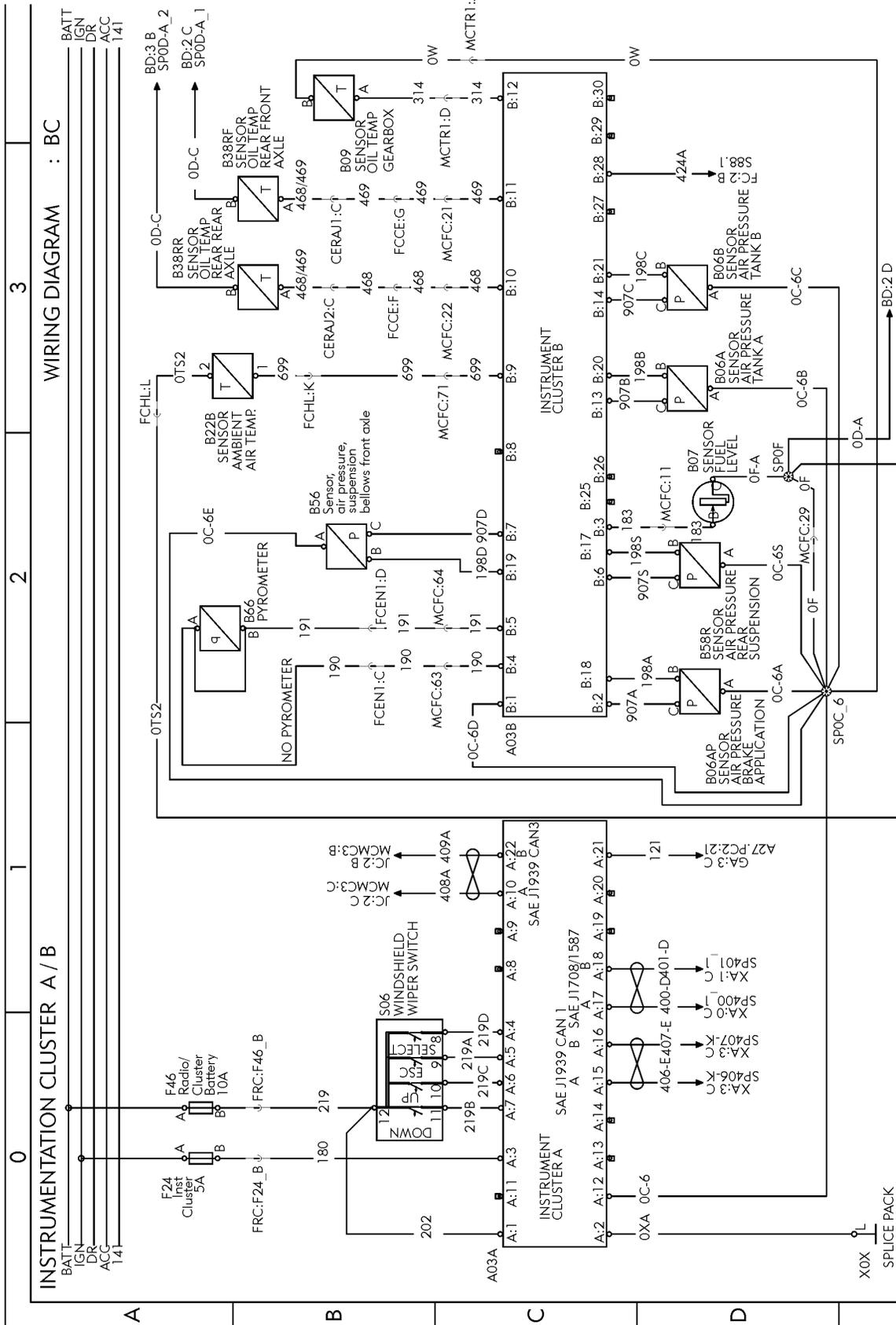


Fig. 7: BC

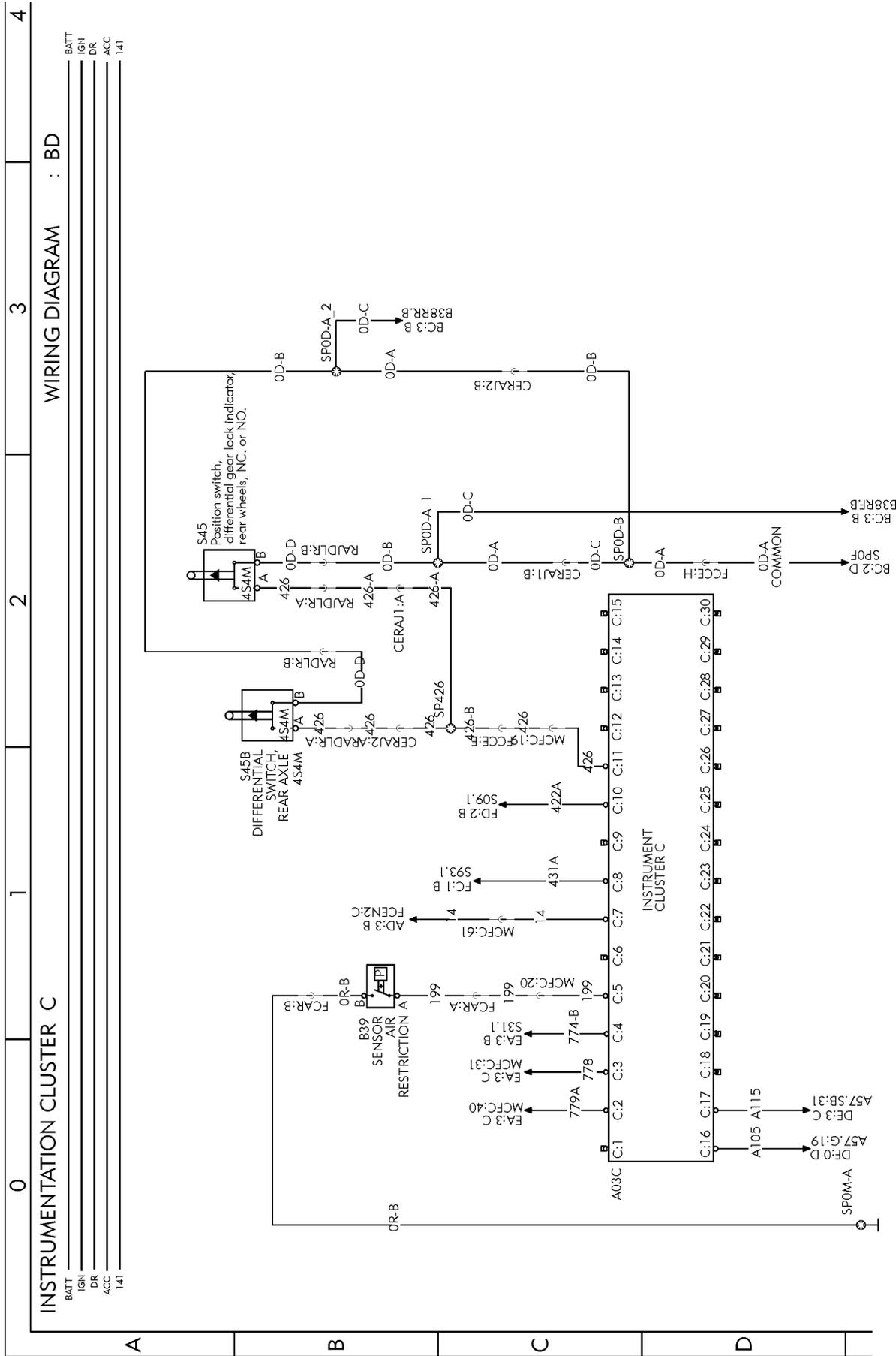


Fig. 8: BD

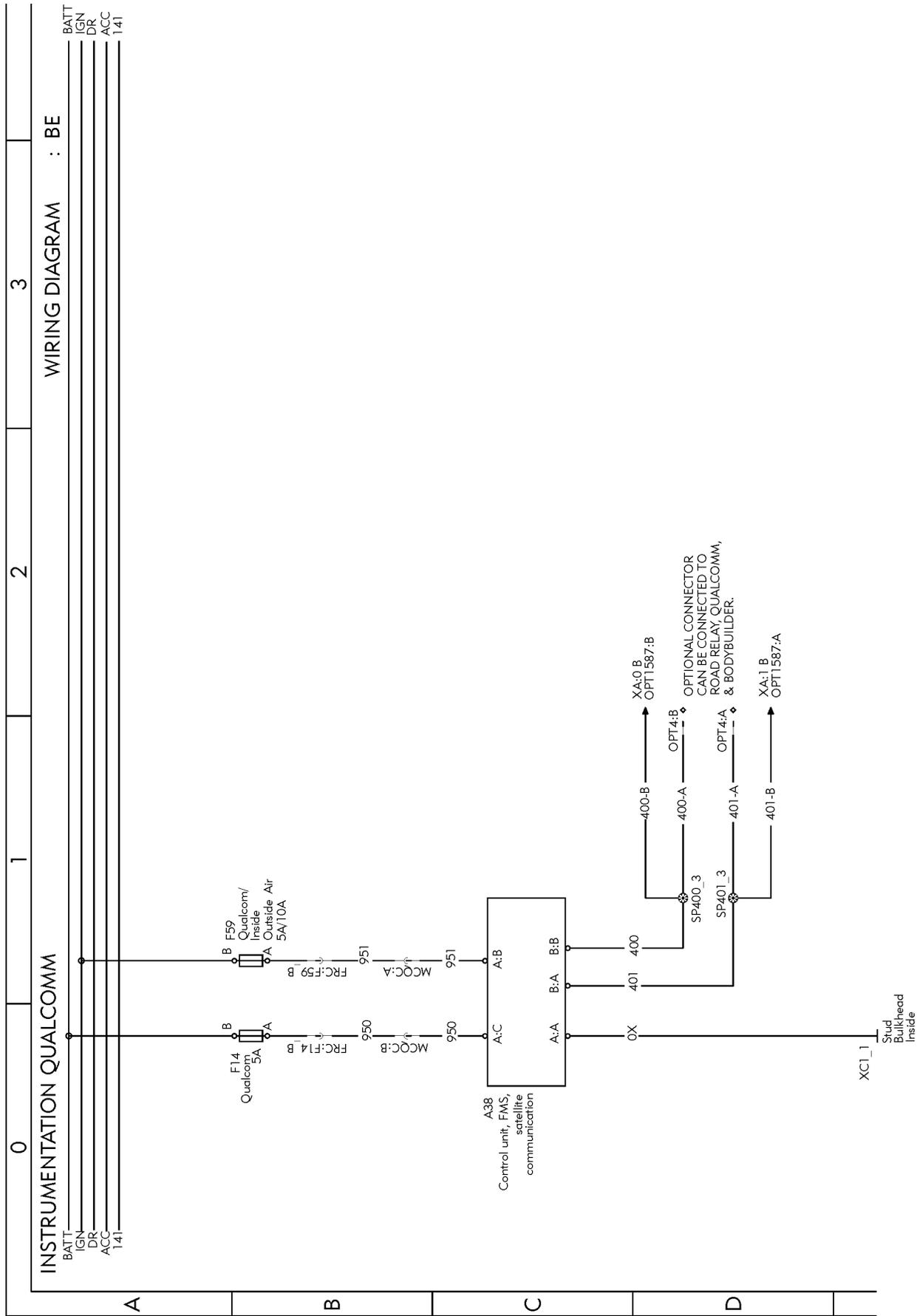
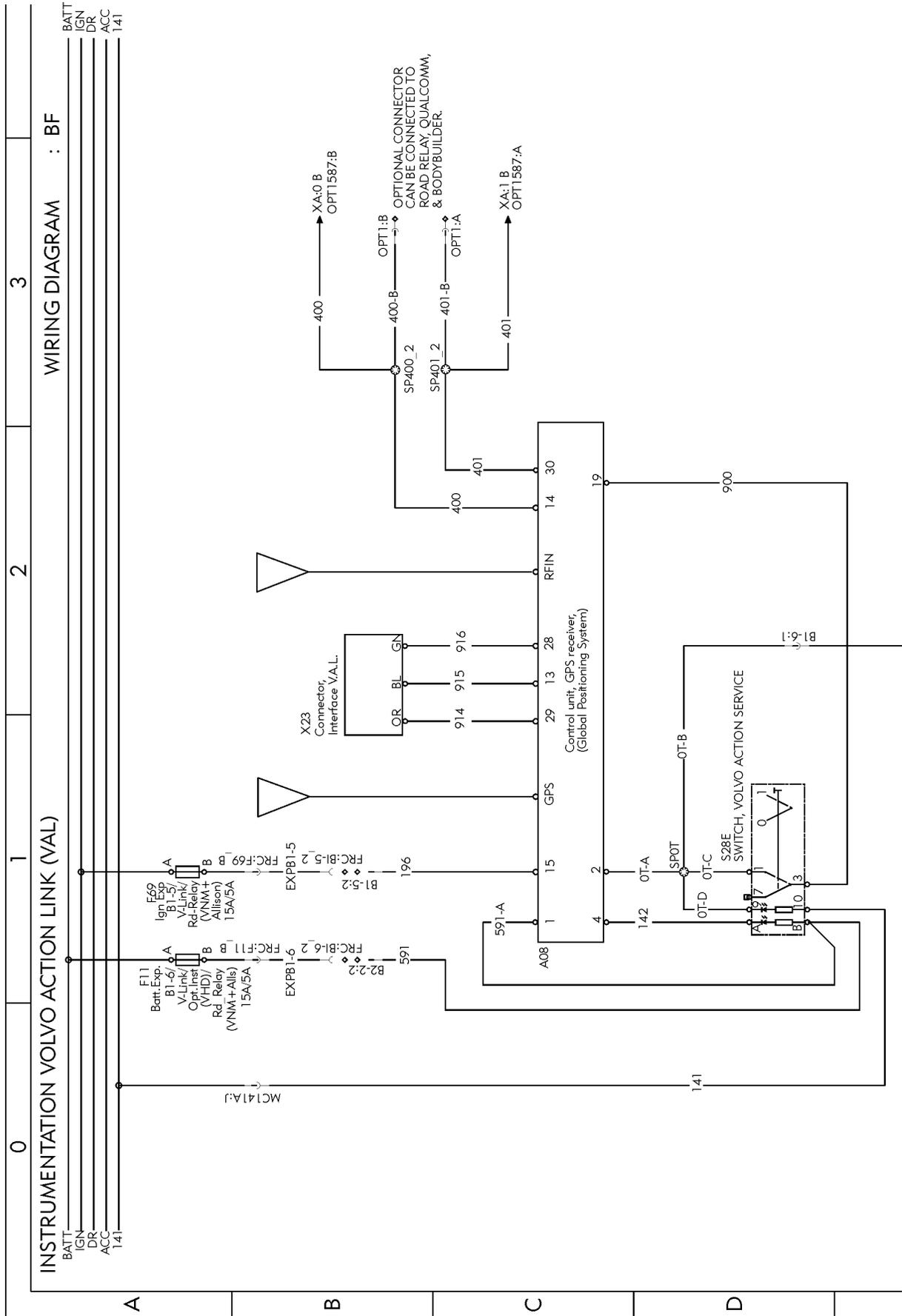


Fig. 9: BE



WIRING DIAGRAM : BF

Fig. 10: BF

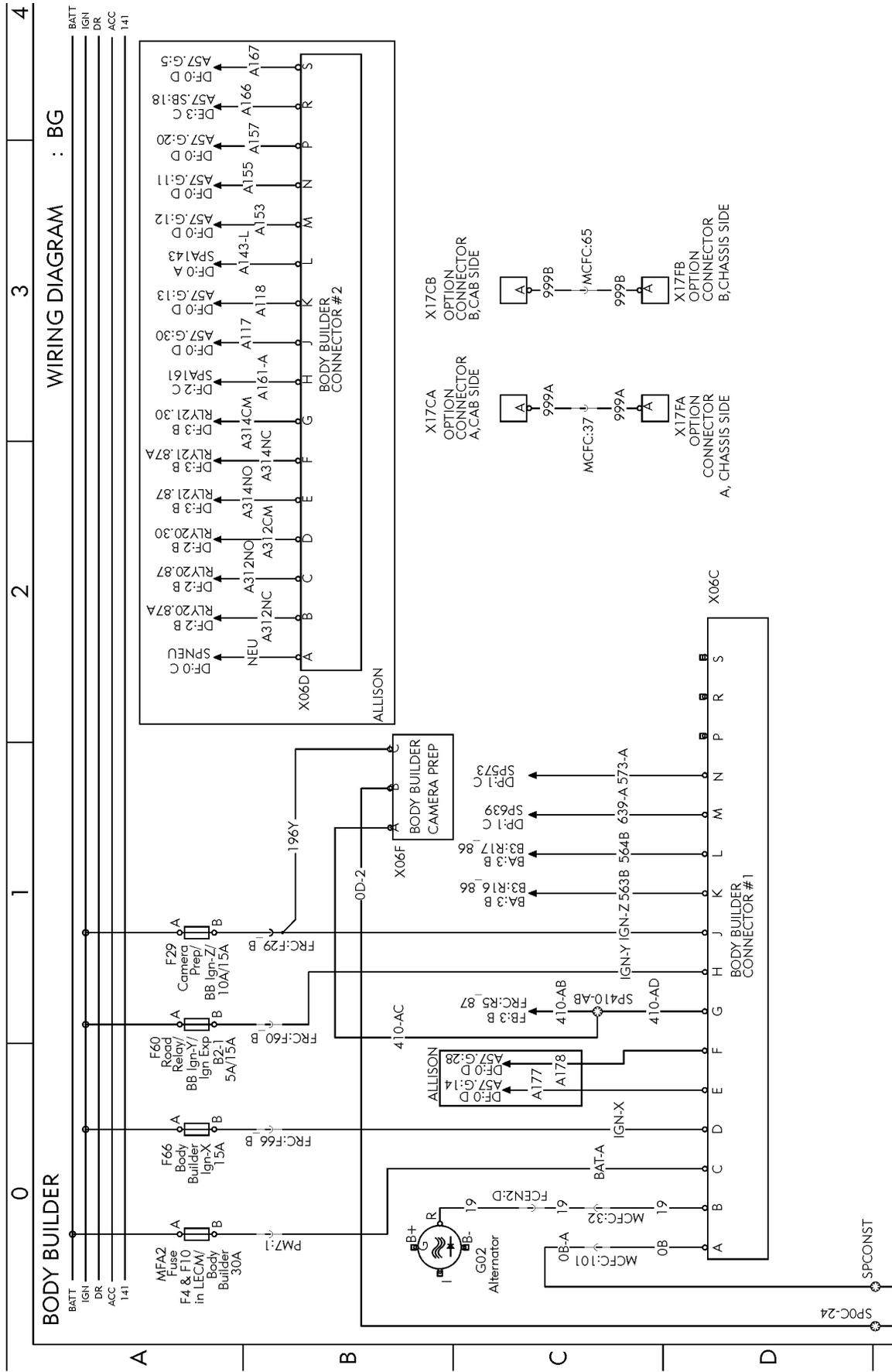


Fig. 11: BG

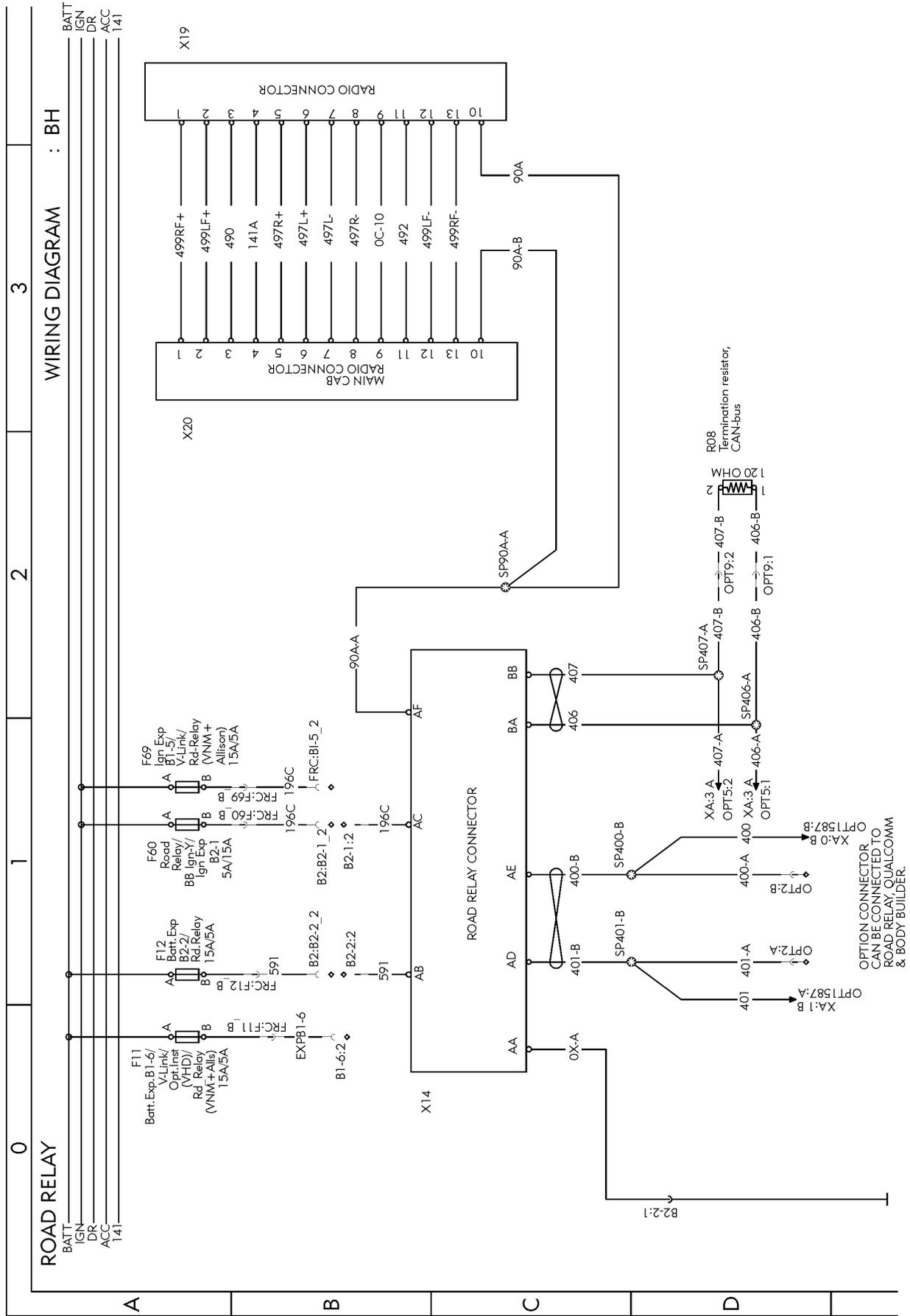


Fig. 12: BH

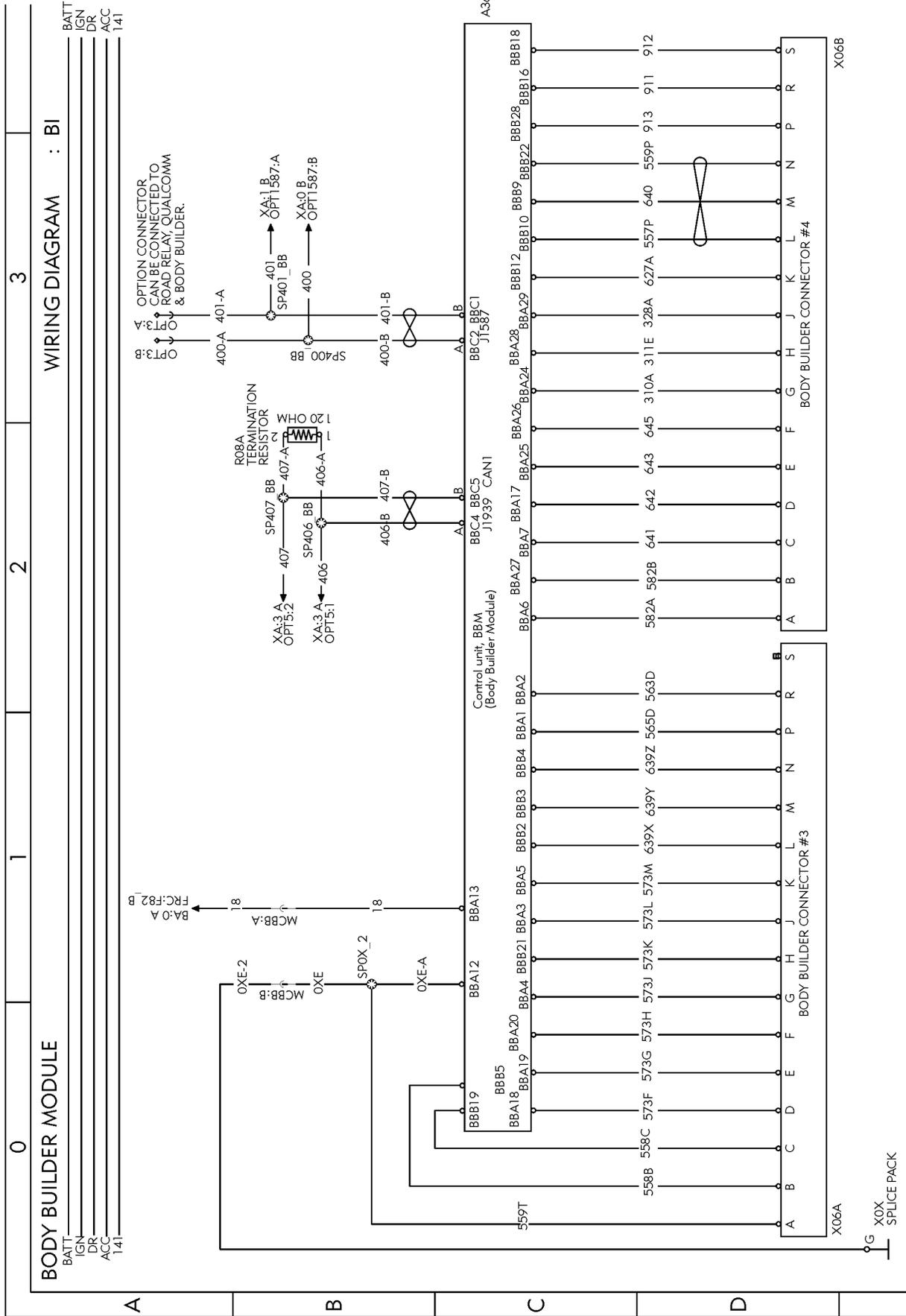


Fig. 13: BI

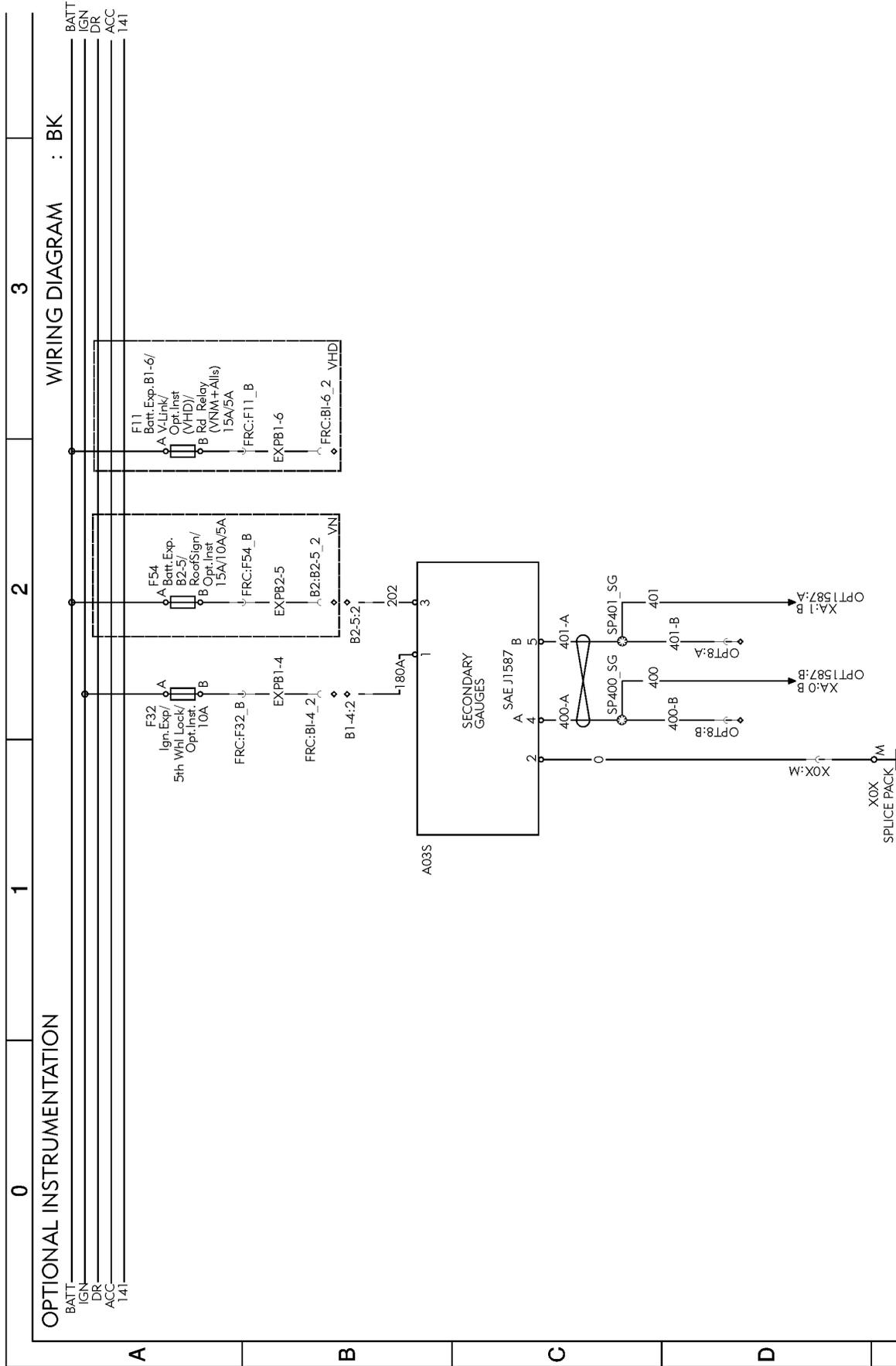


Fig. 15: BK

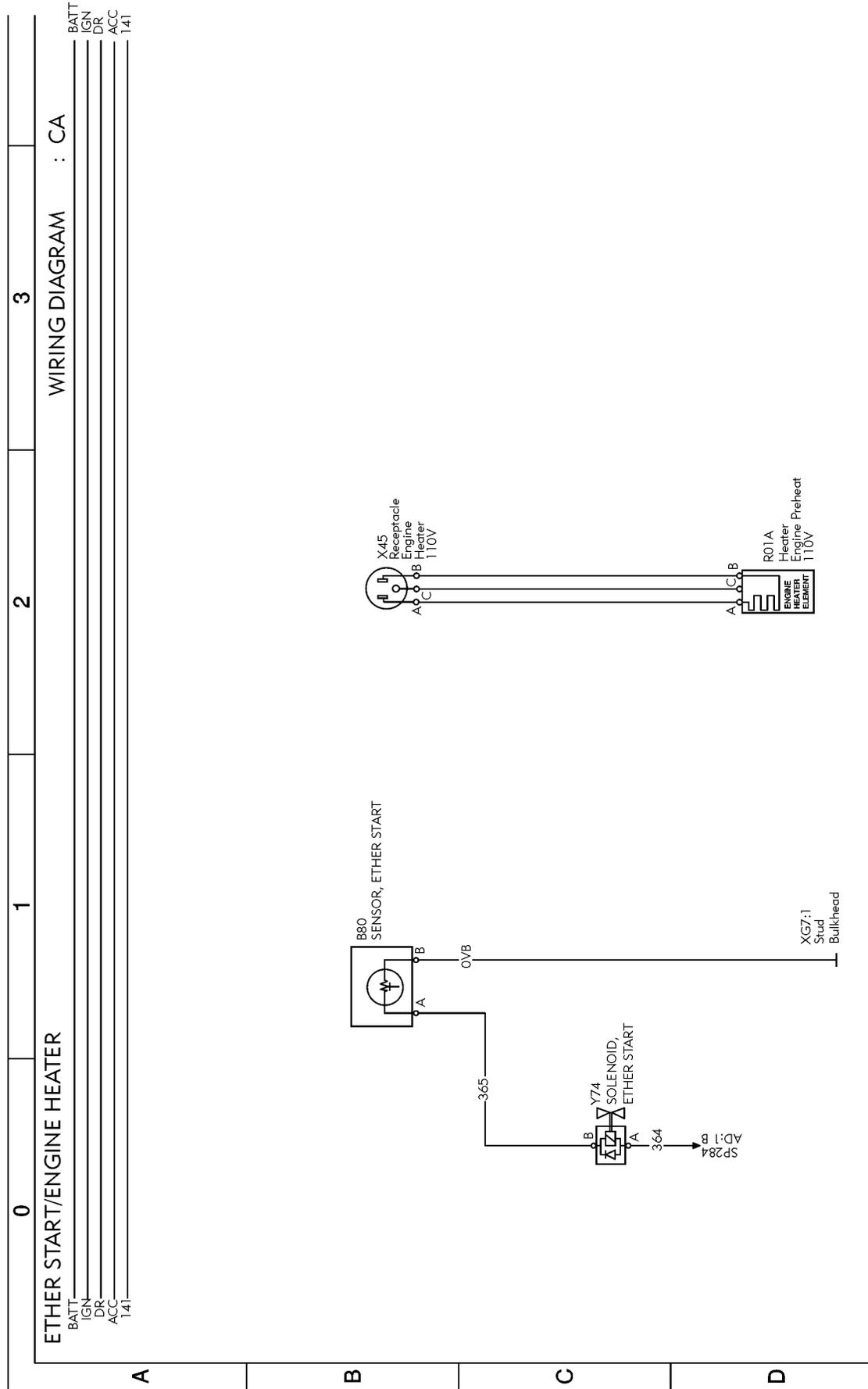


Fig. 16: CA

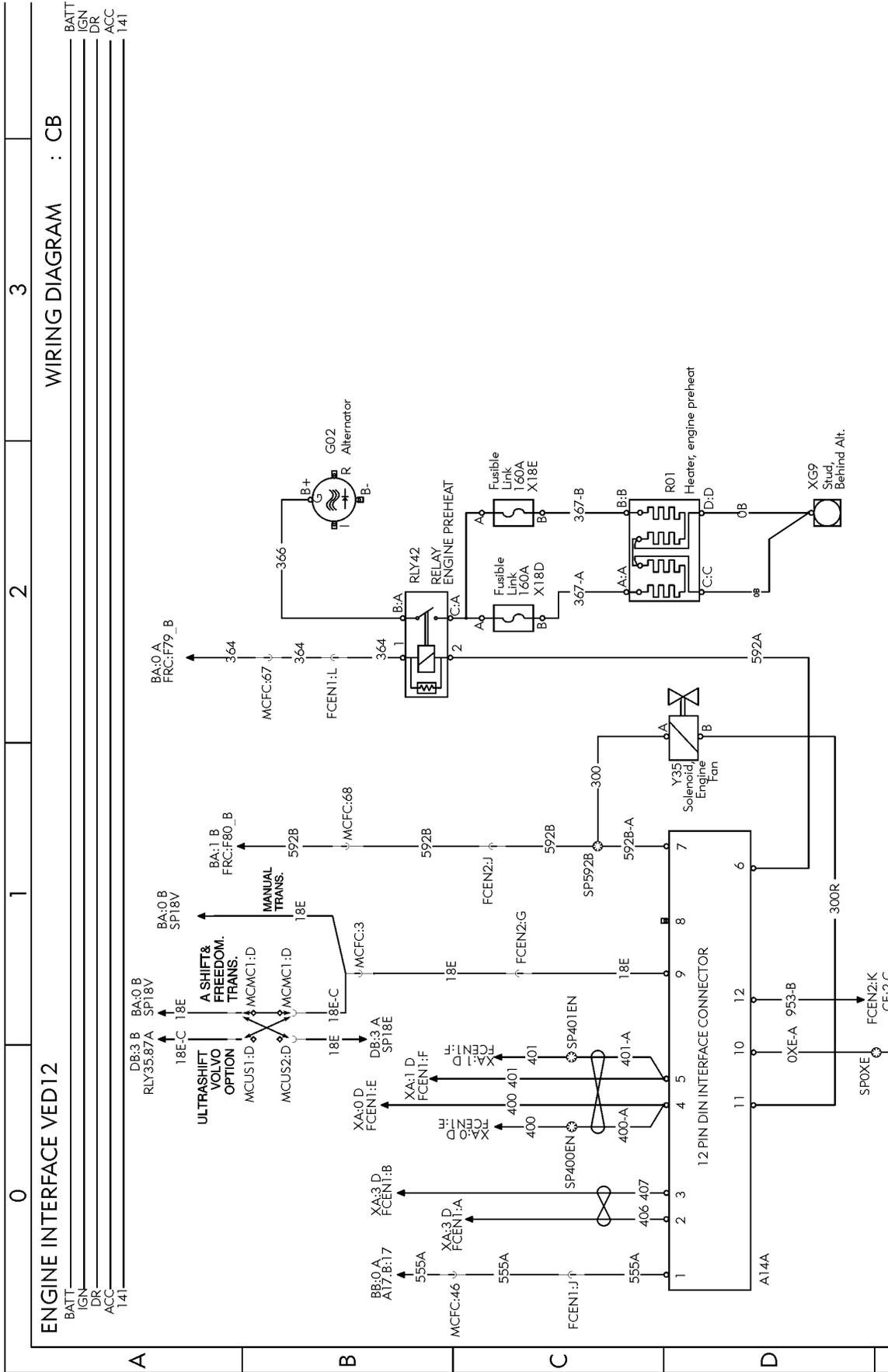


Fig. 17: CB

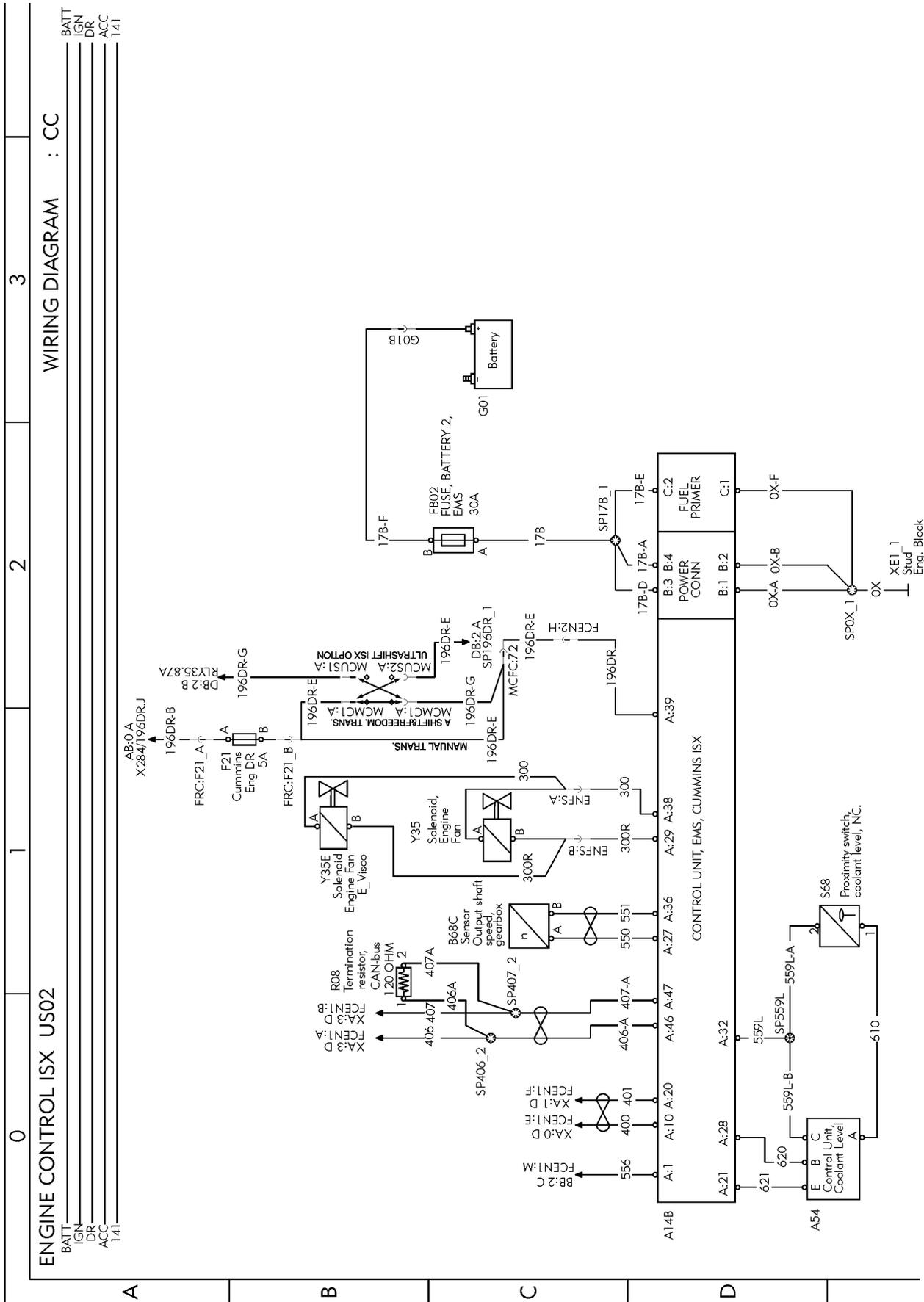


Fig. 18: CC

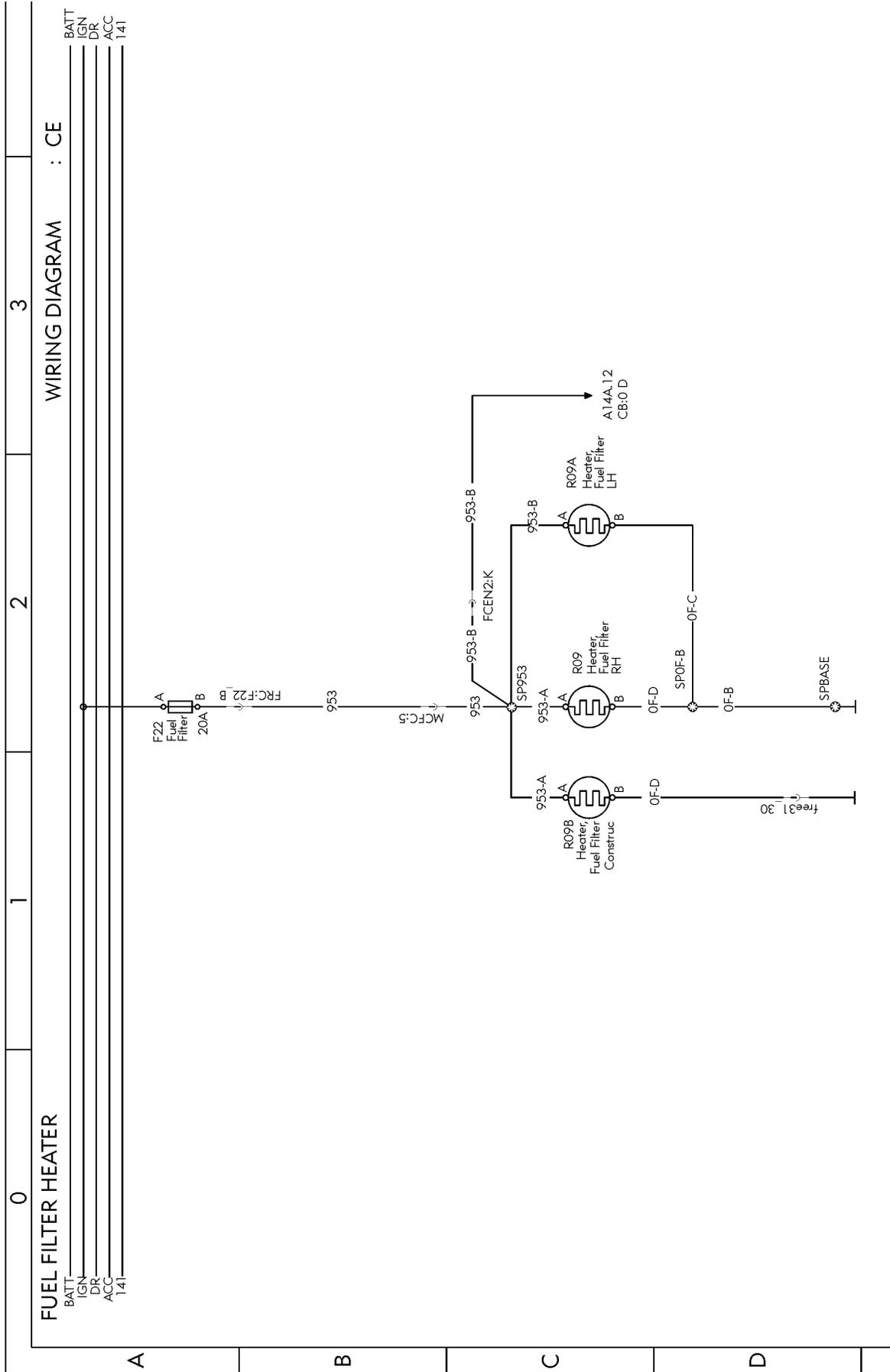


Fig. 19: CE

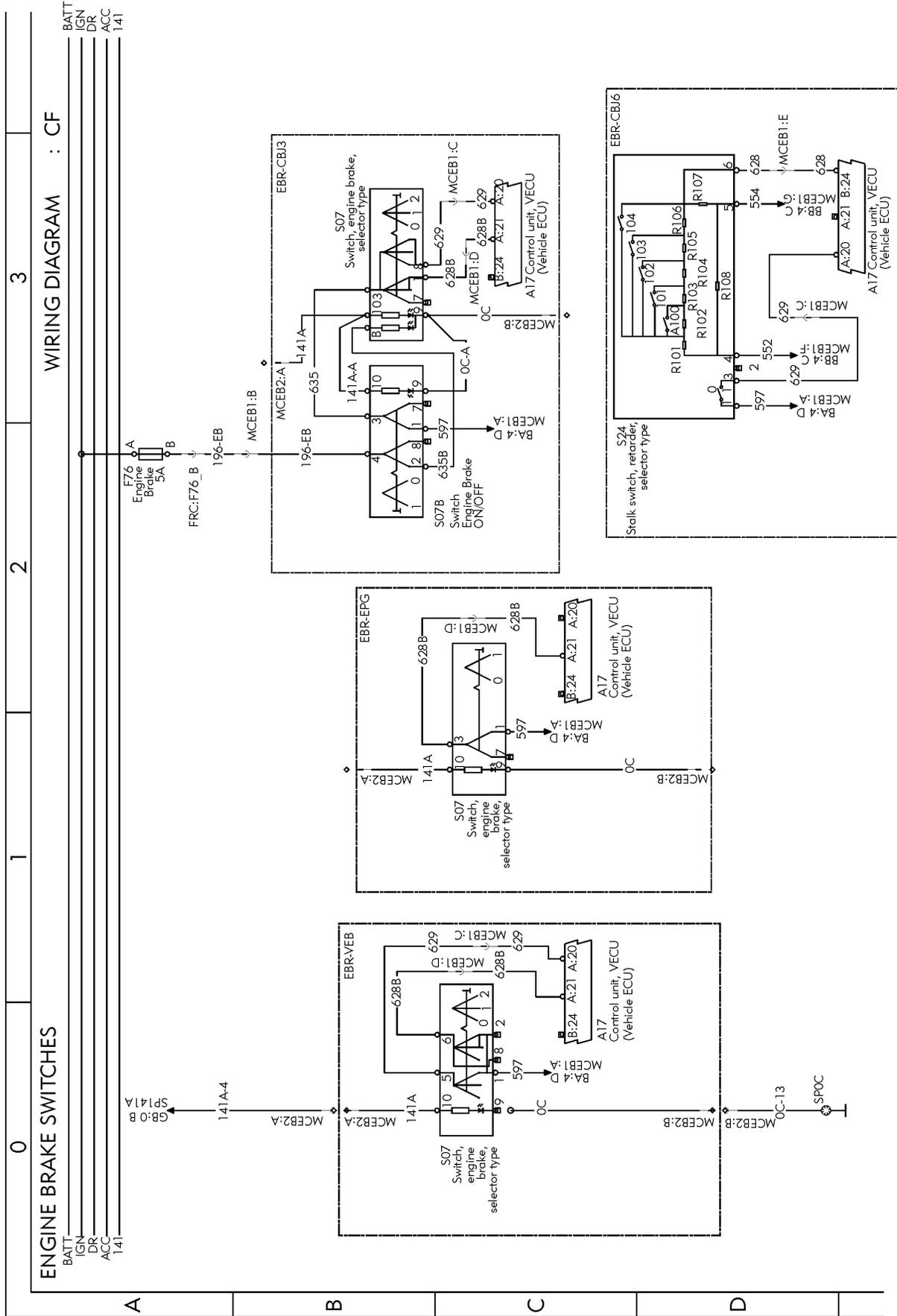


Fig. 20: CF

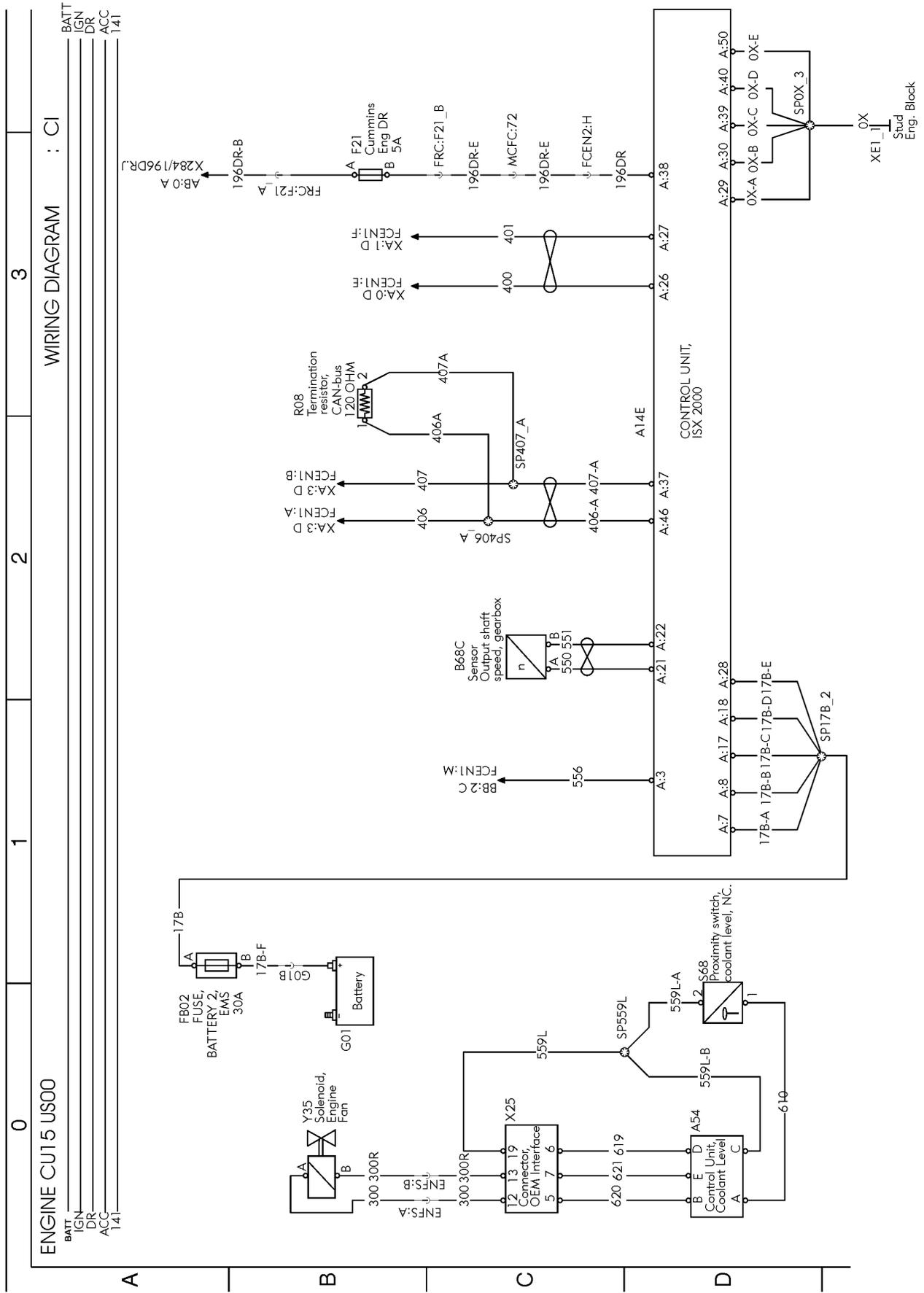


Fig. 22: CI

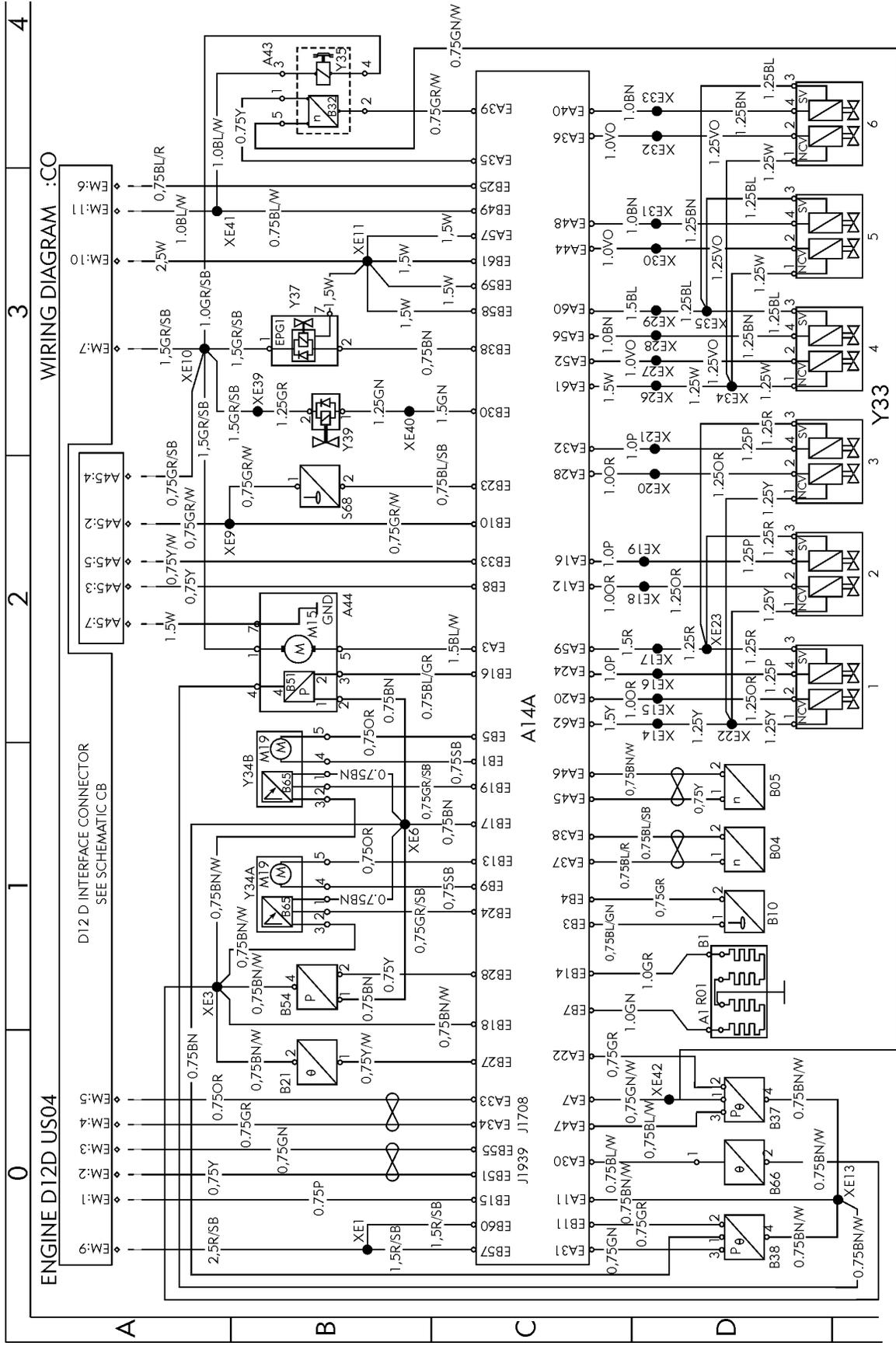


Fig. 23: CO

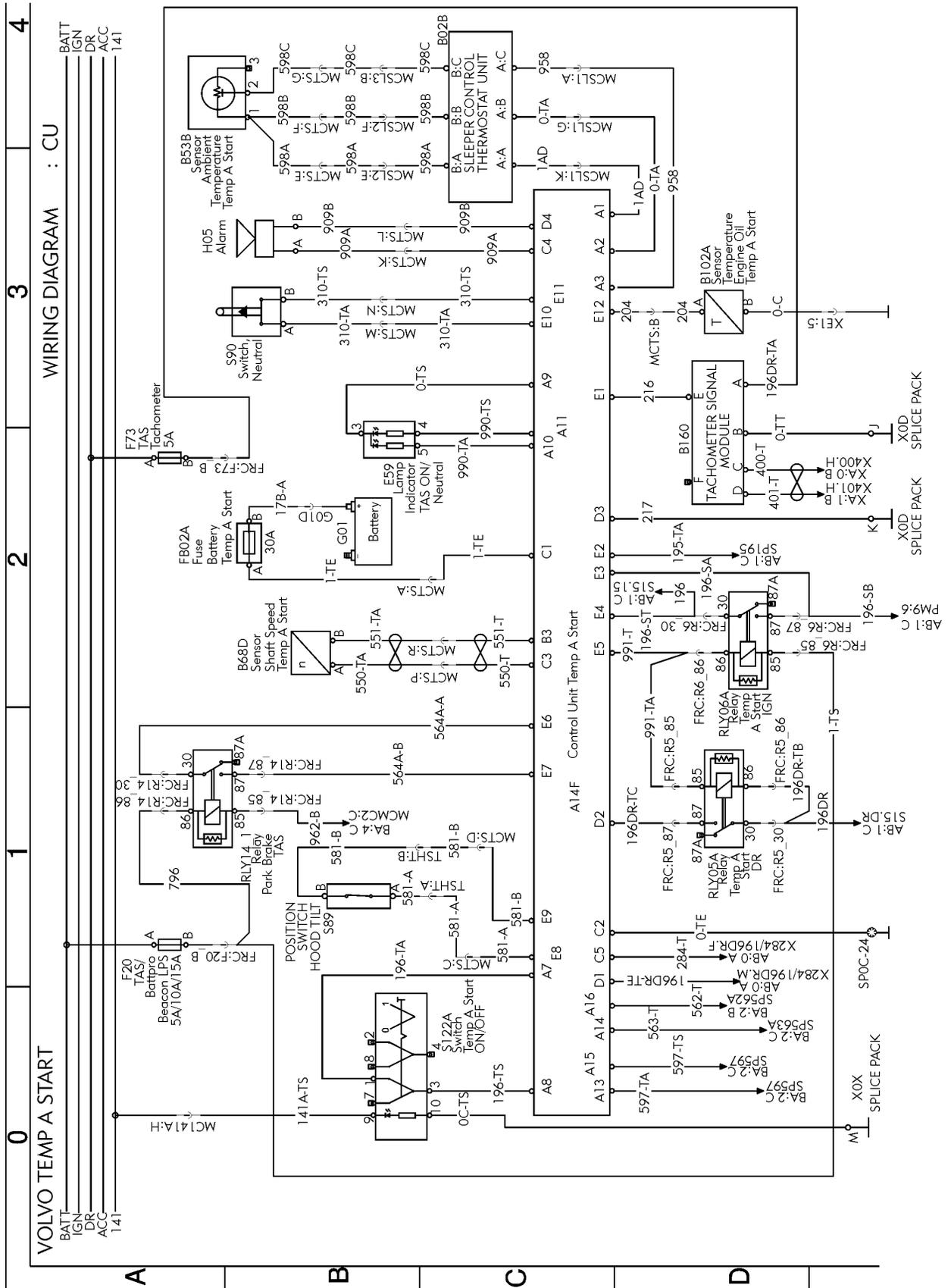


Fig. 24: CU

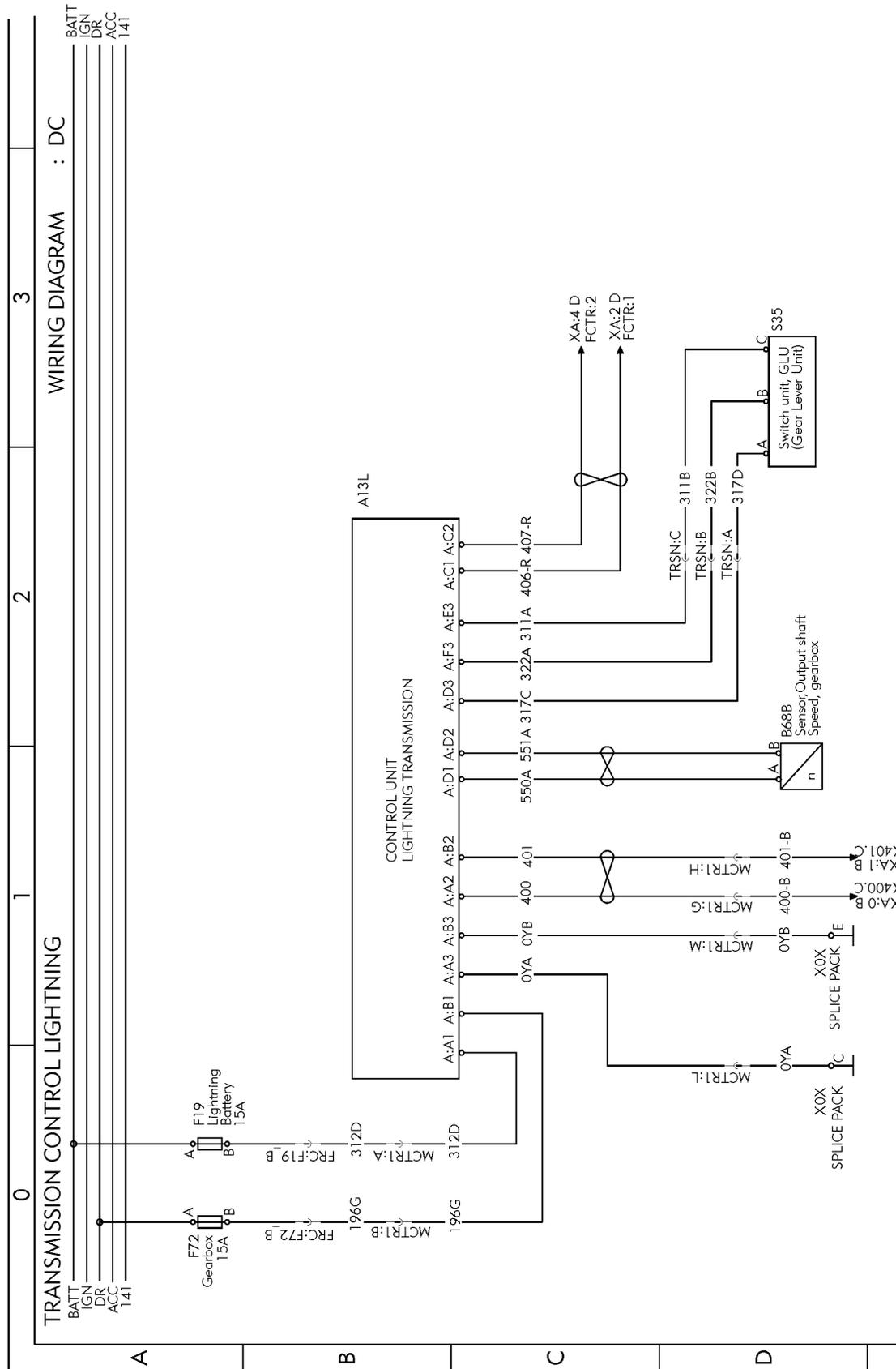


Fig. 26: DC

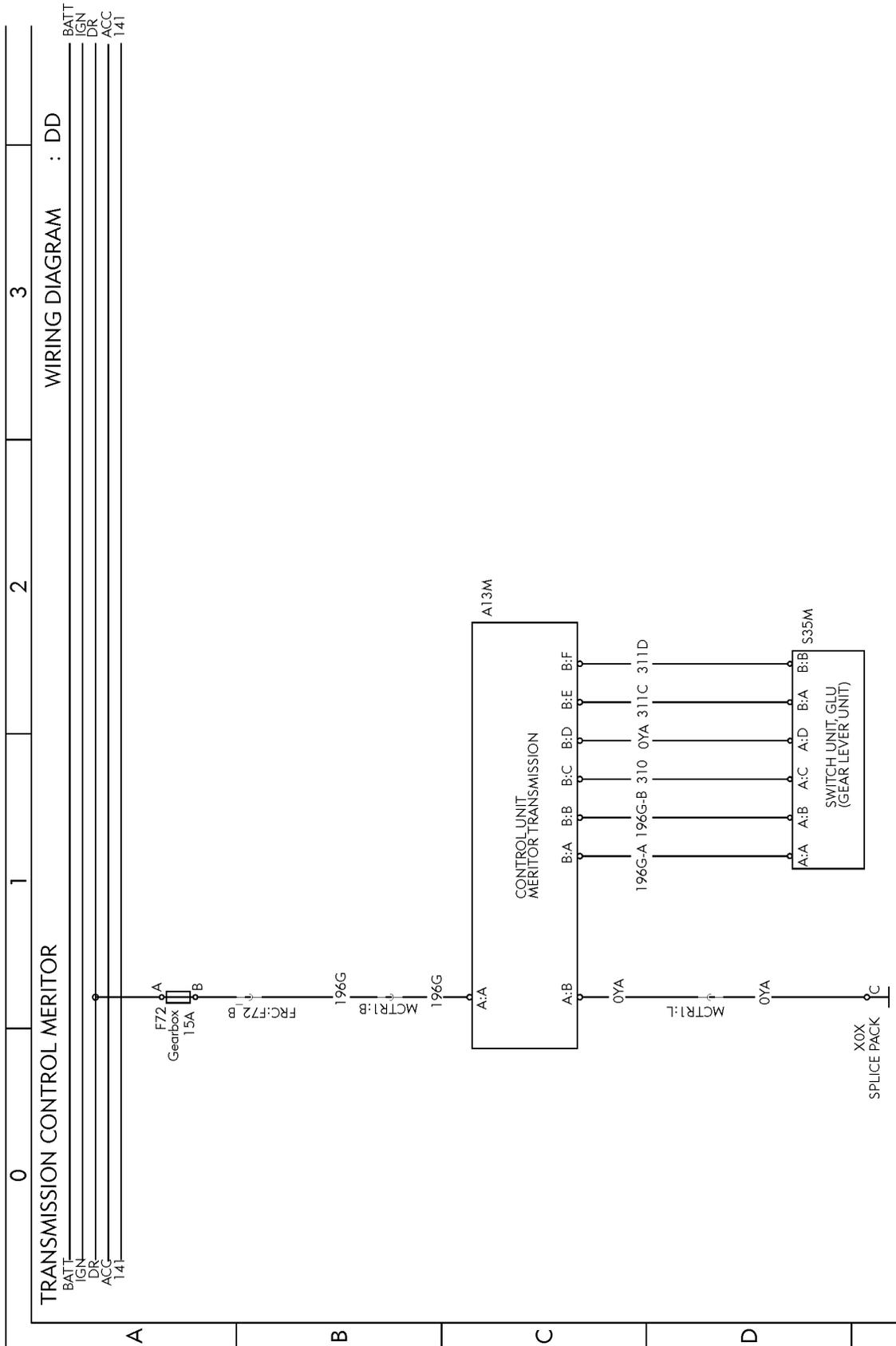


Fig. 27: DD

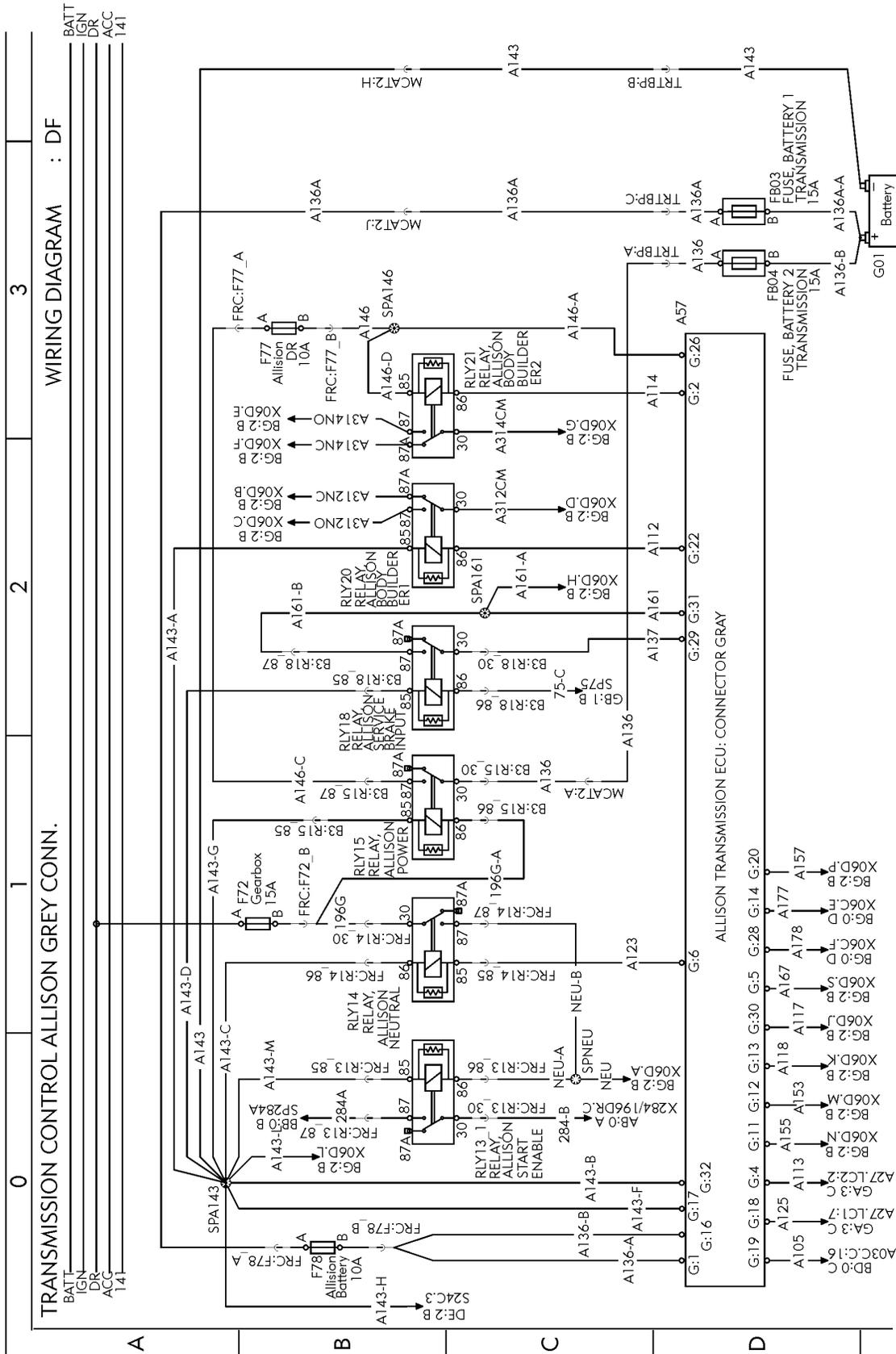


Fig. 29: DF

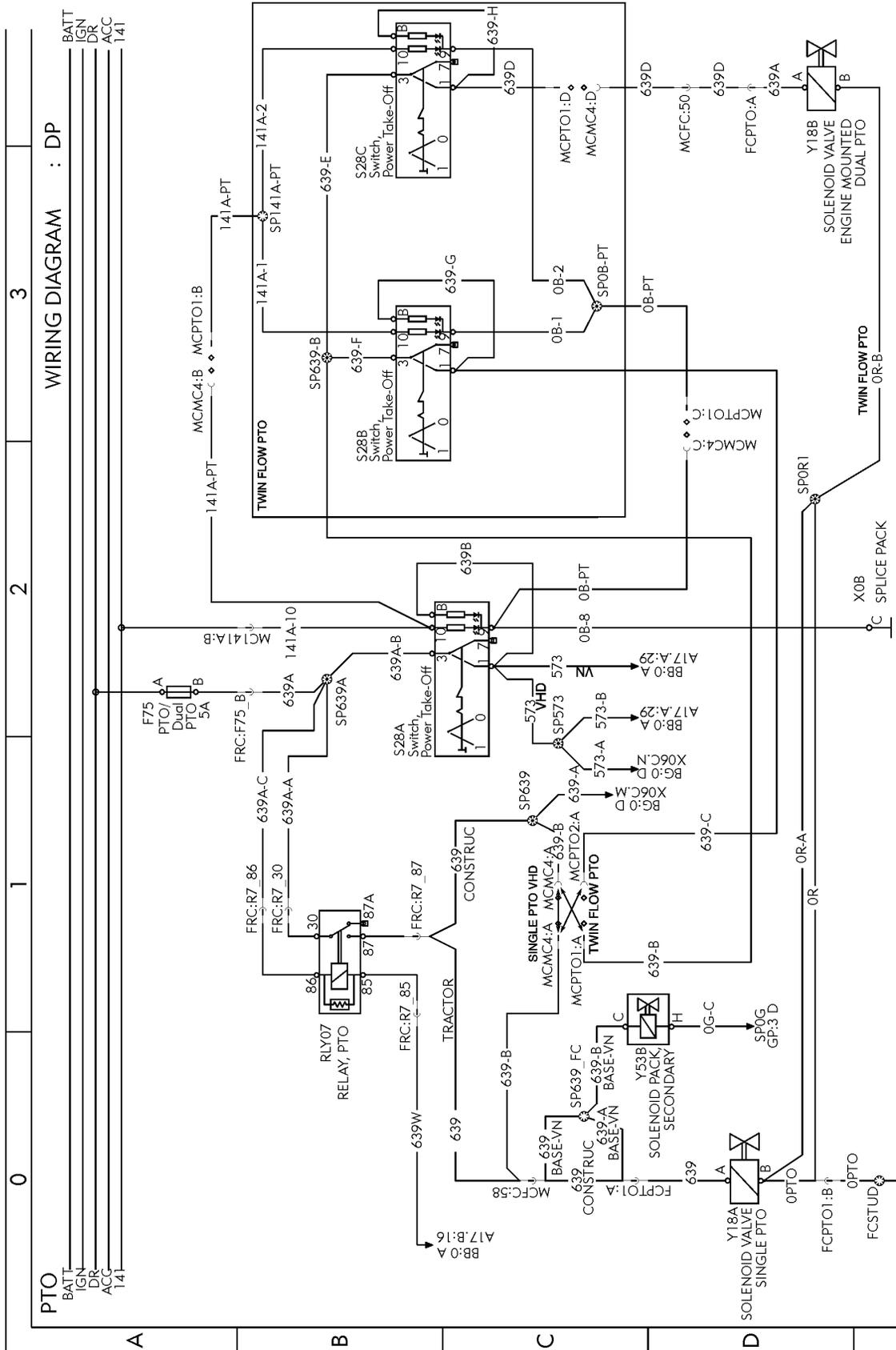


Fig. 31: DP

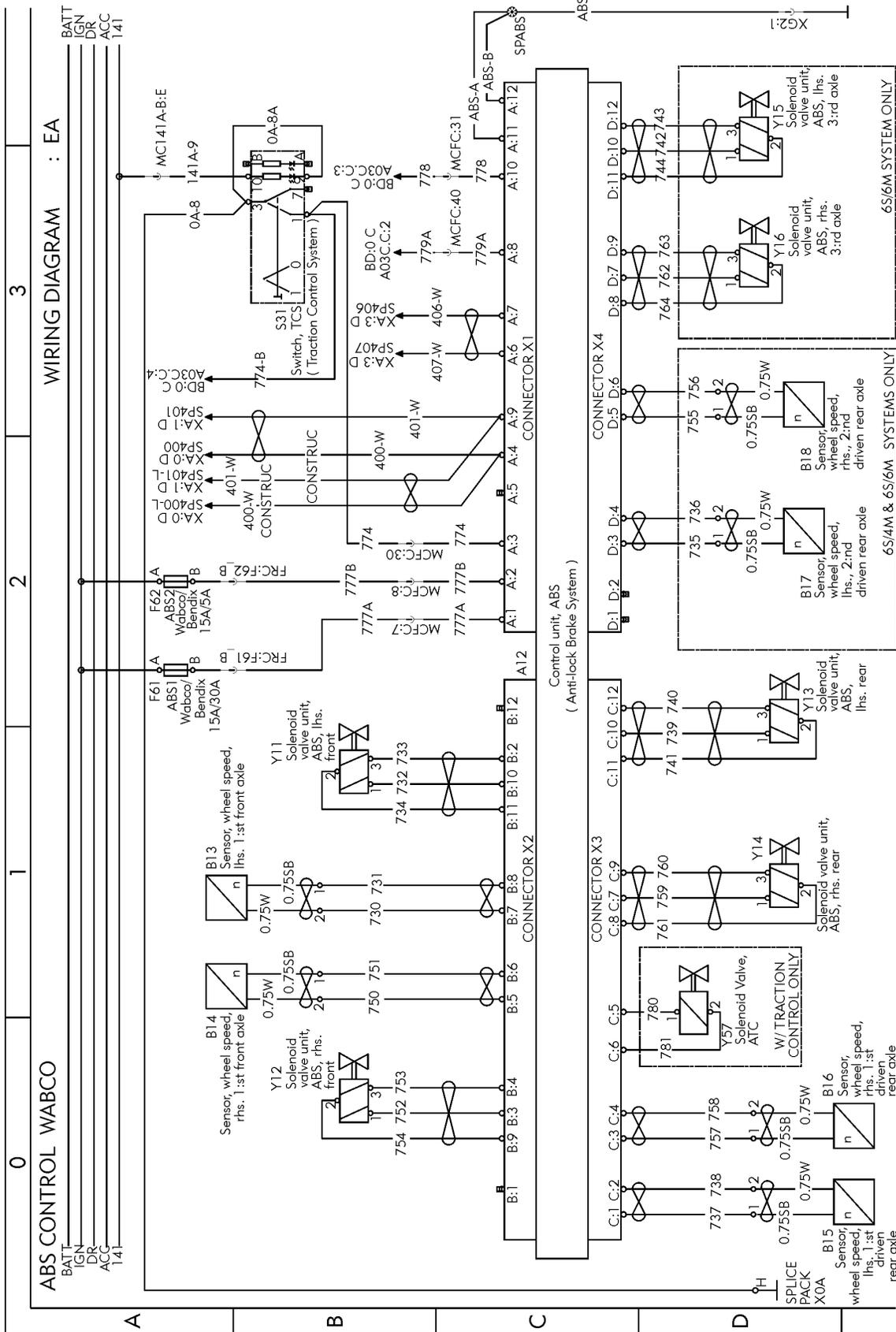


Fig. 32: EA

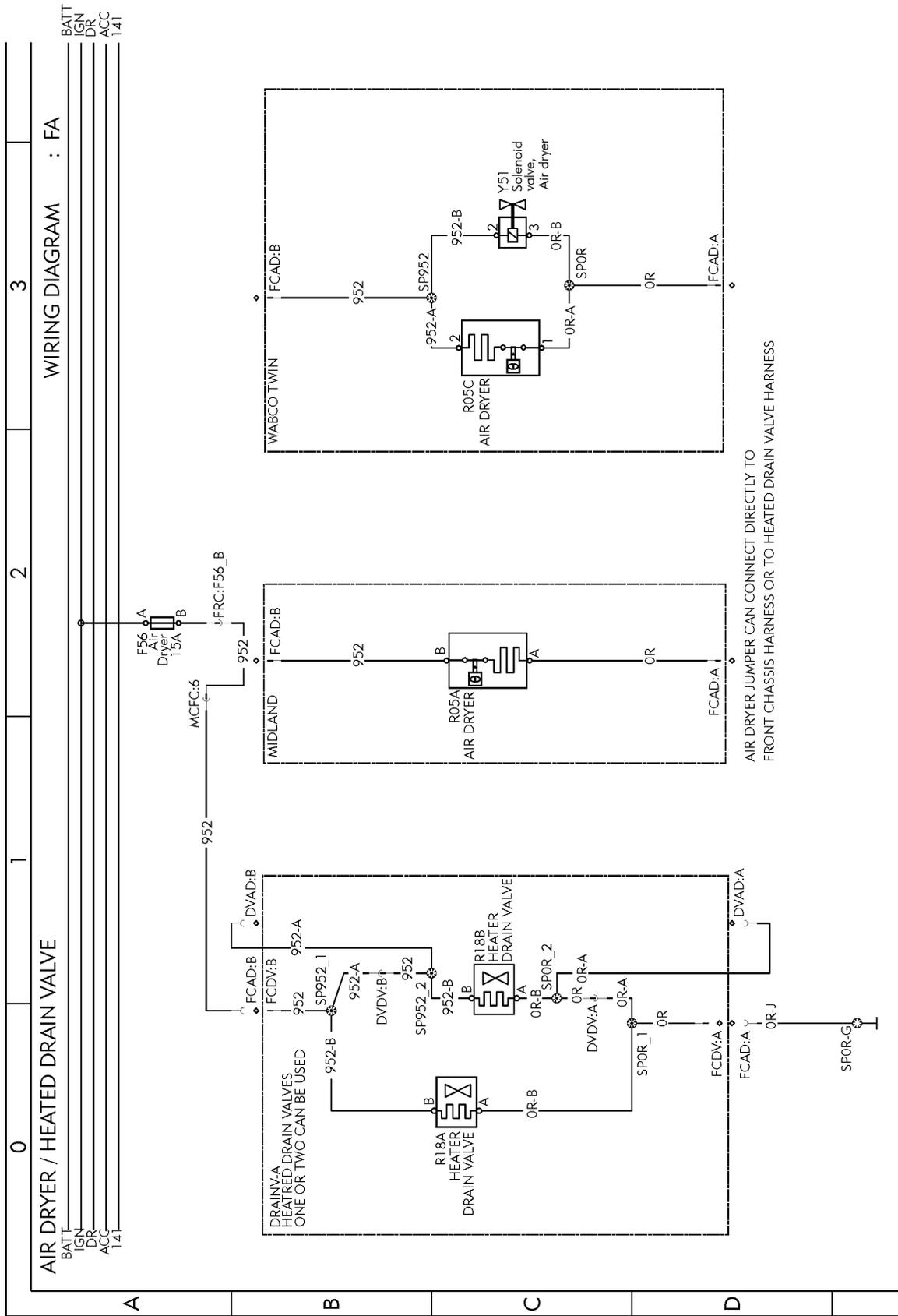


Fig. 34: FA

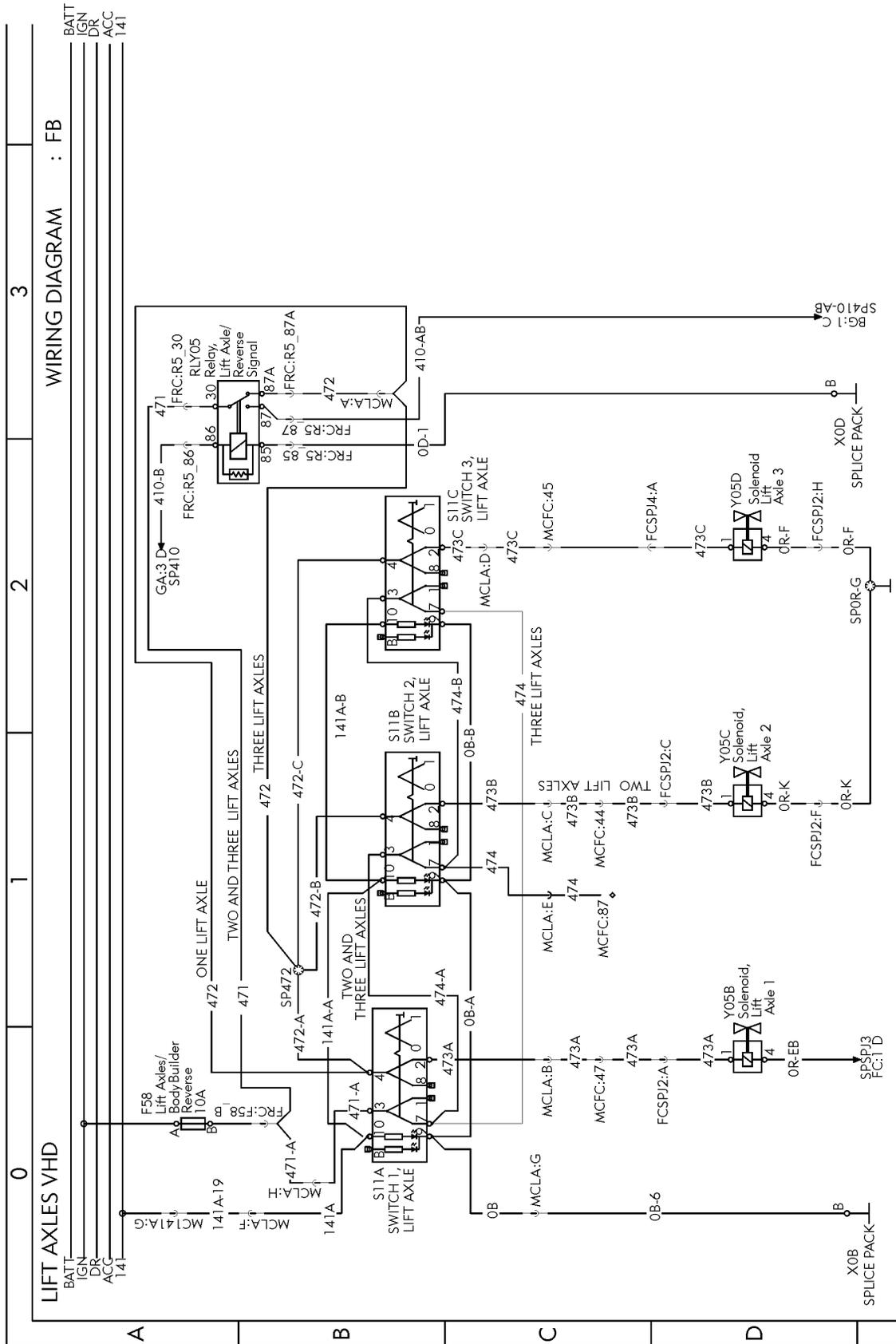


Fig. 35: FB

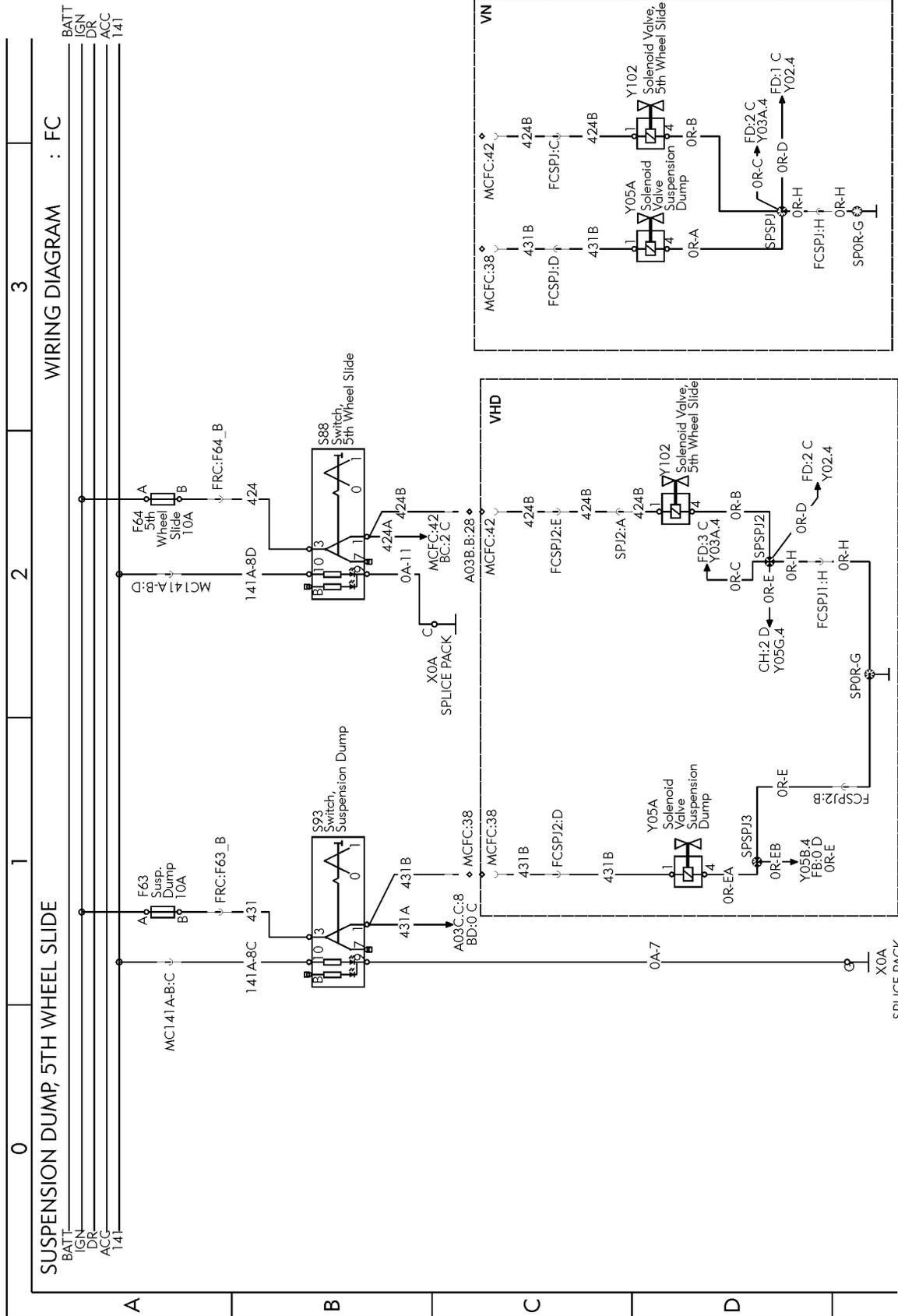


Fig. 36: FC

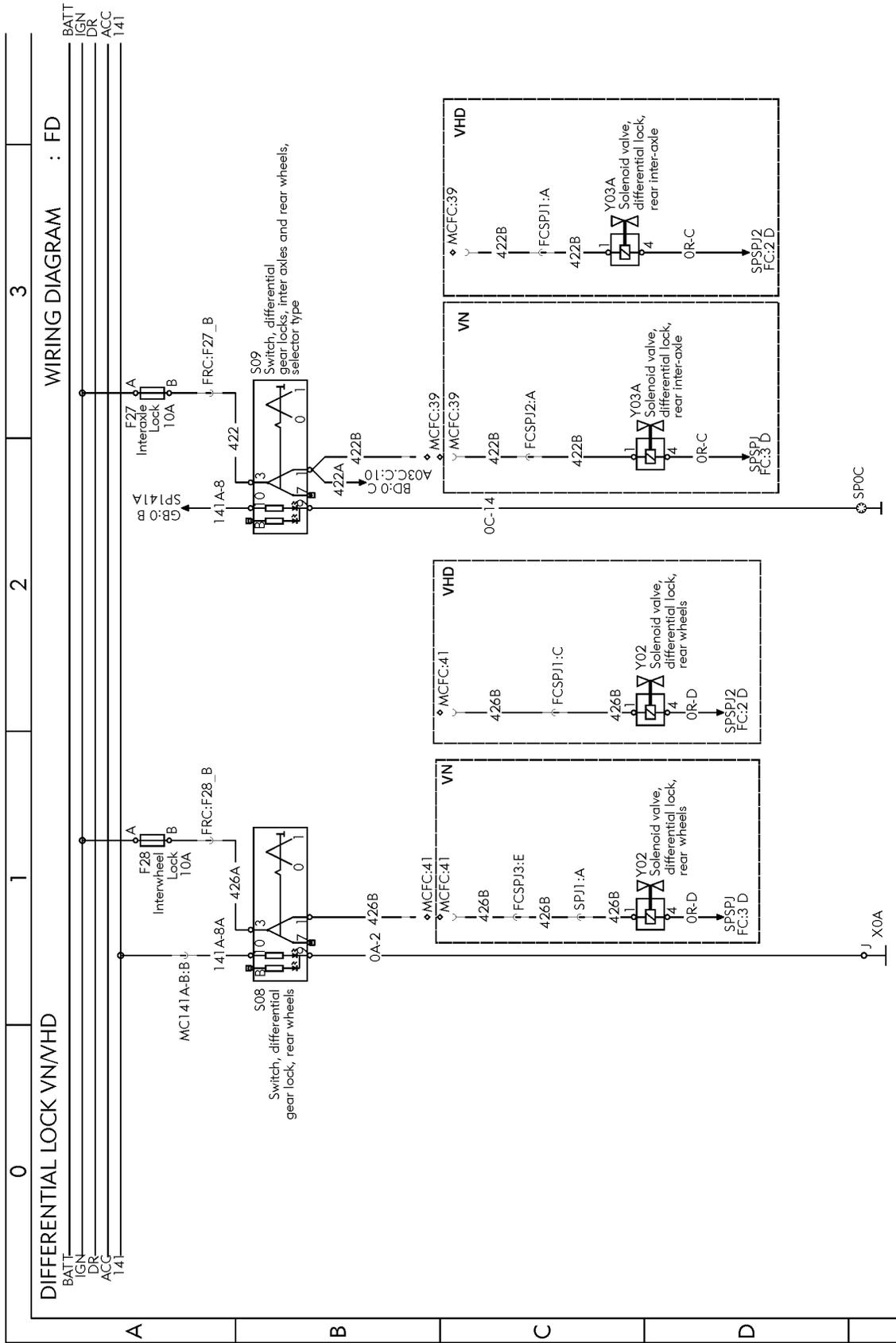


Fig. 37: FD

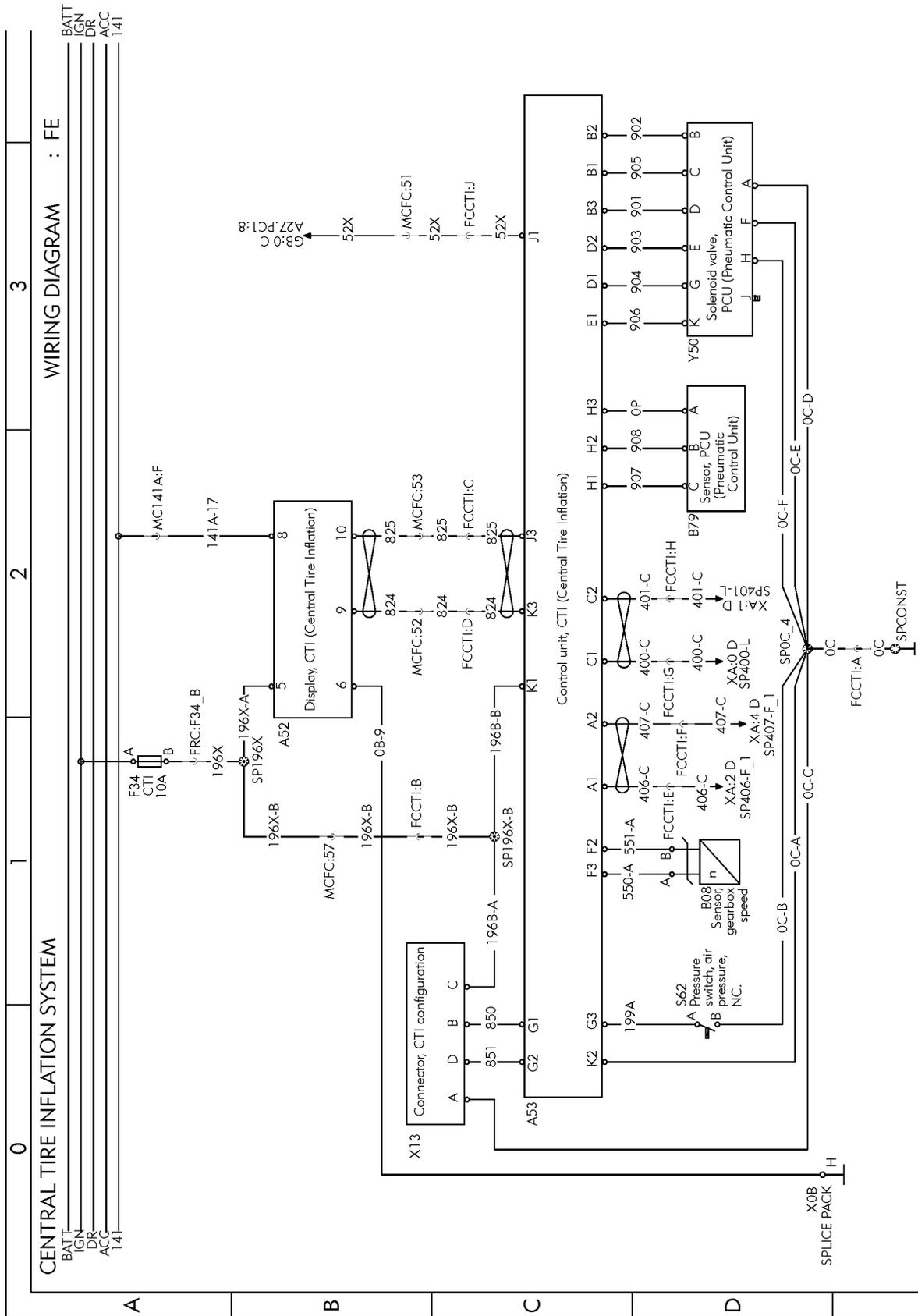


Fig. 38: FE

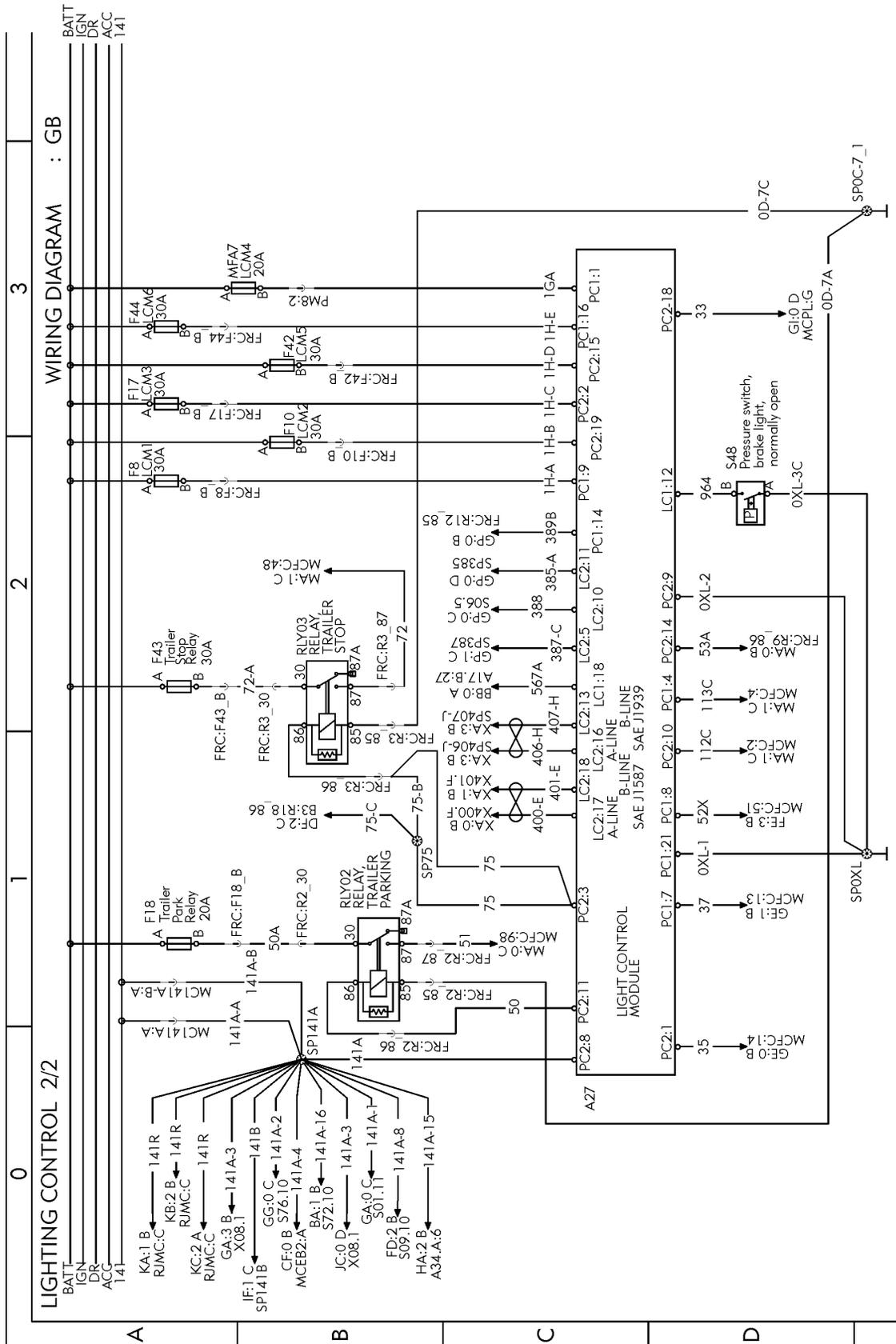


Fig. 40: GB

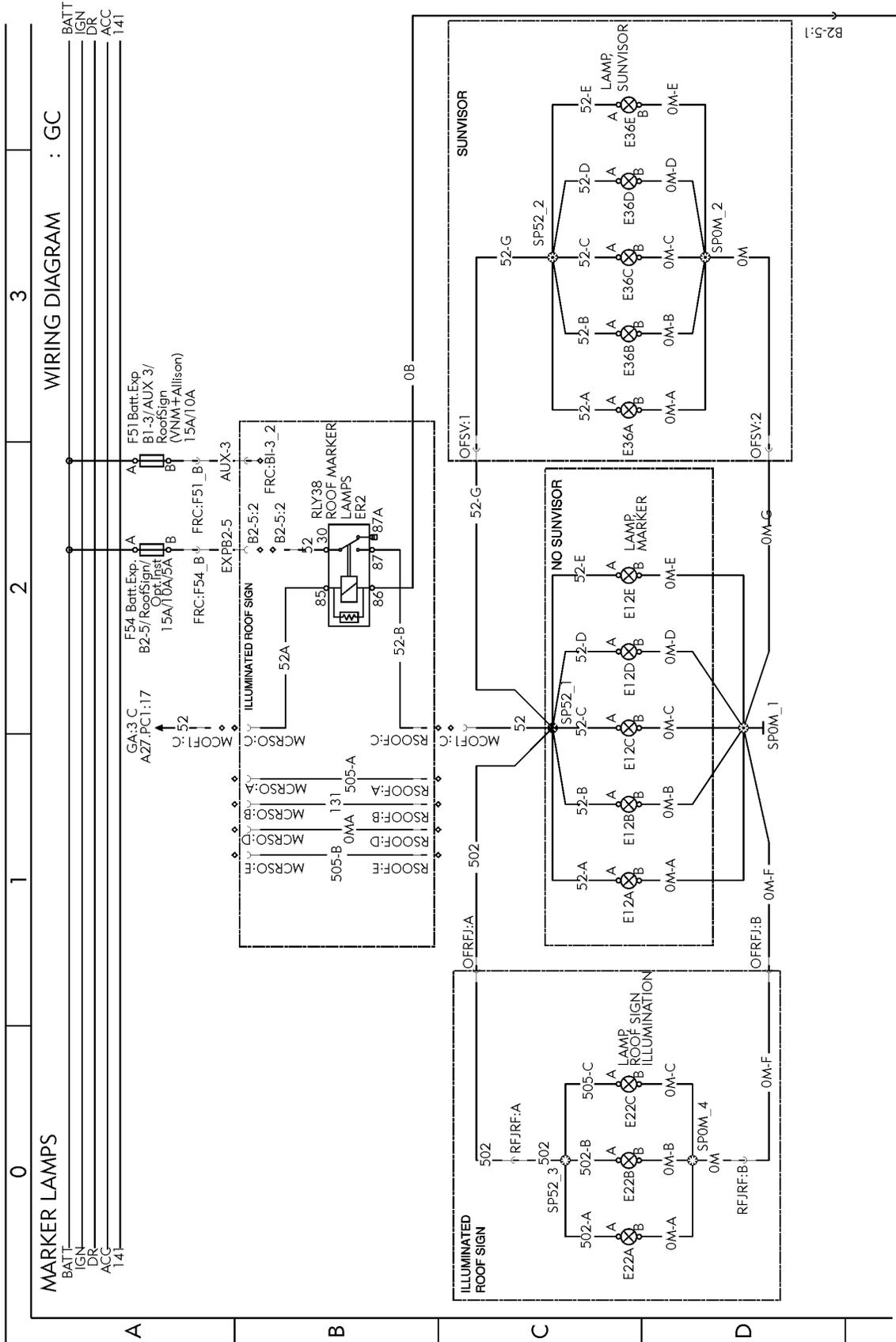


Fig. 41: GC

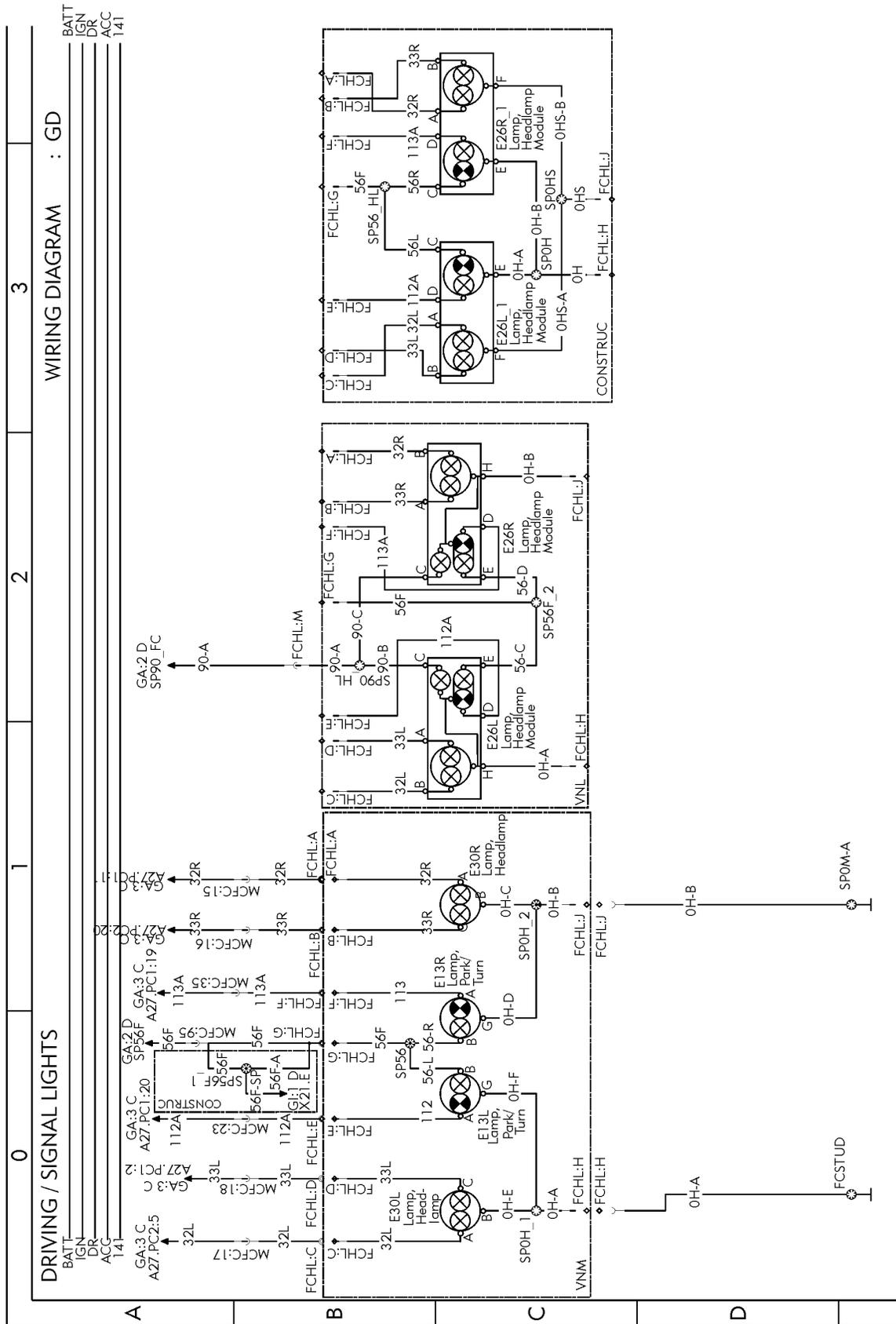


Fig. 42: GD

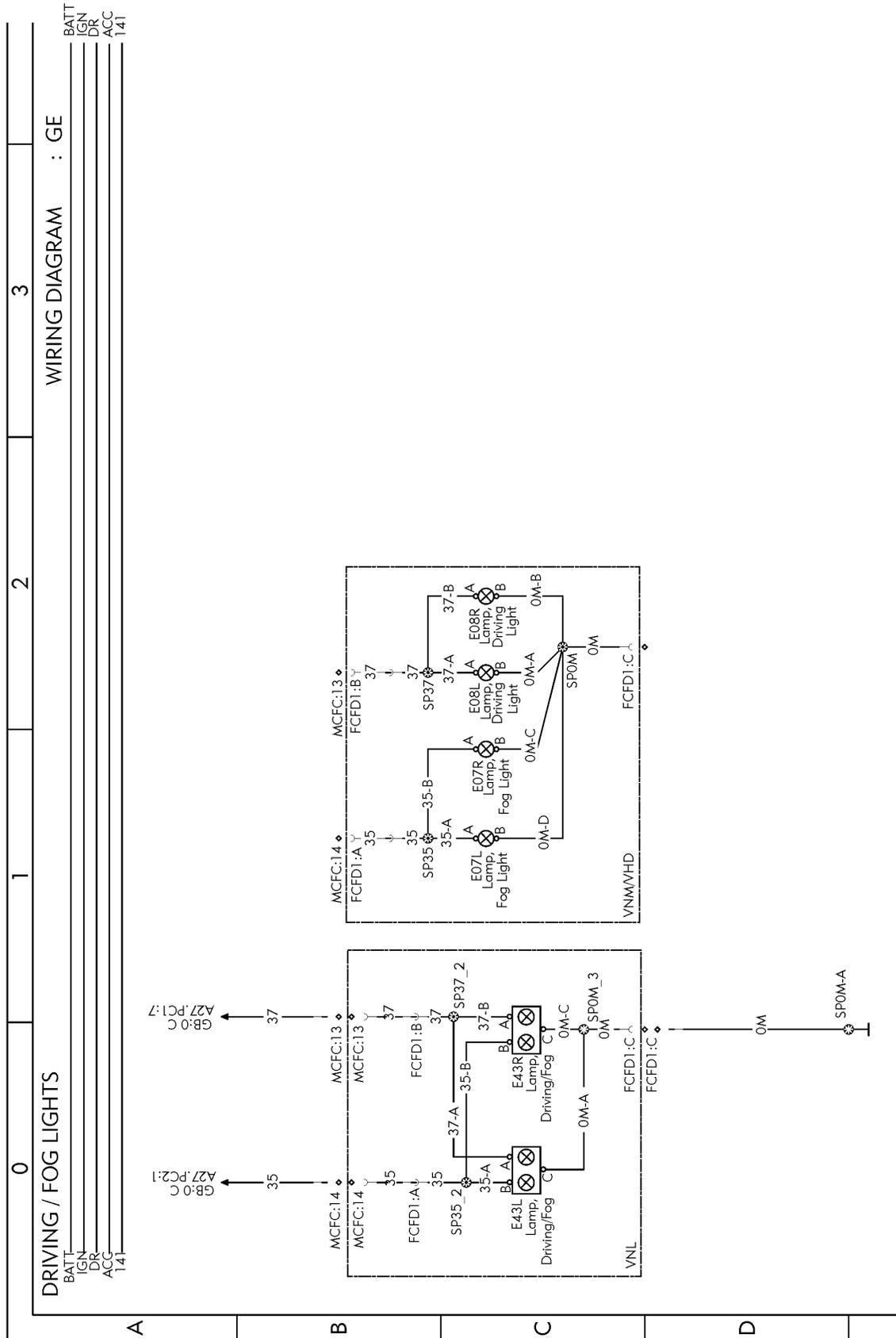


Fig. 43: GE

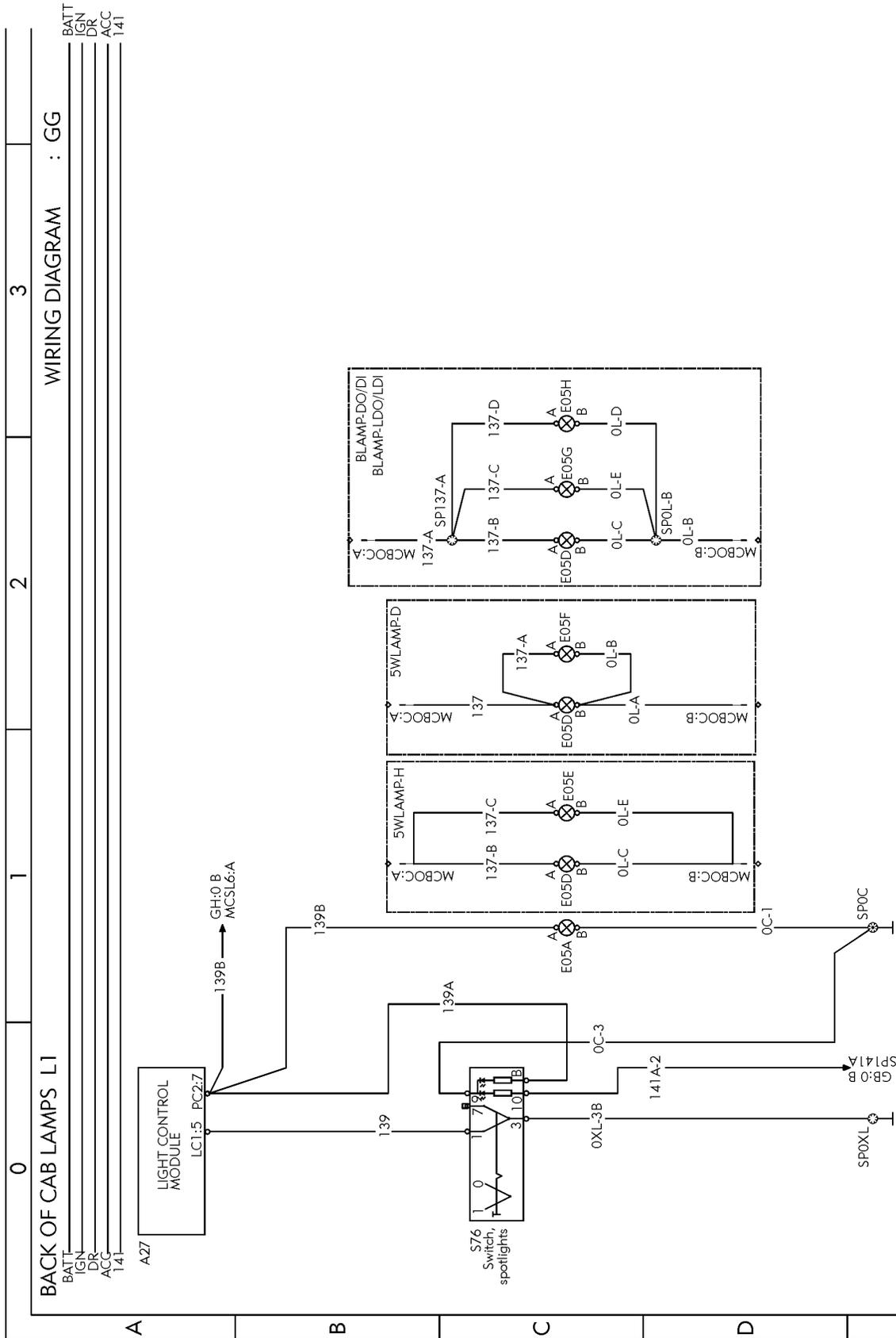


Fig. 45: GG

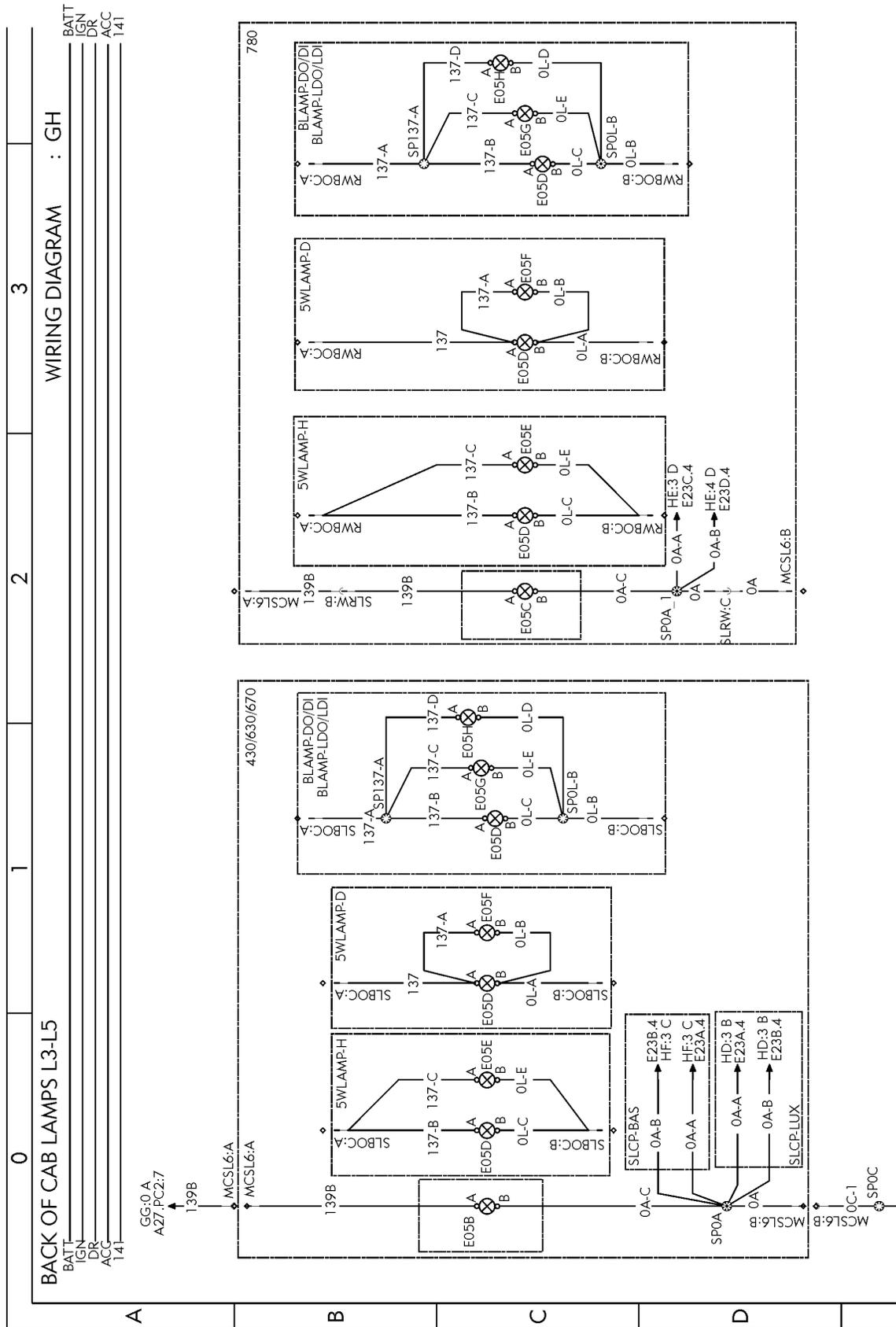


Fig. 46: GH

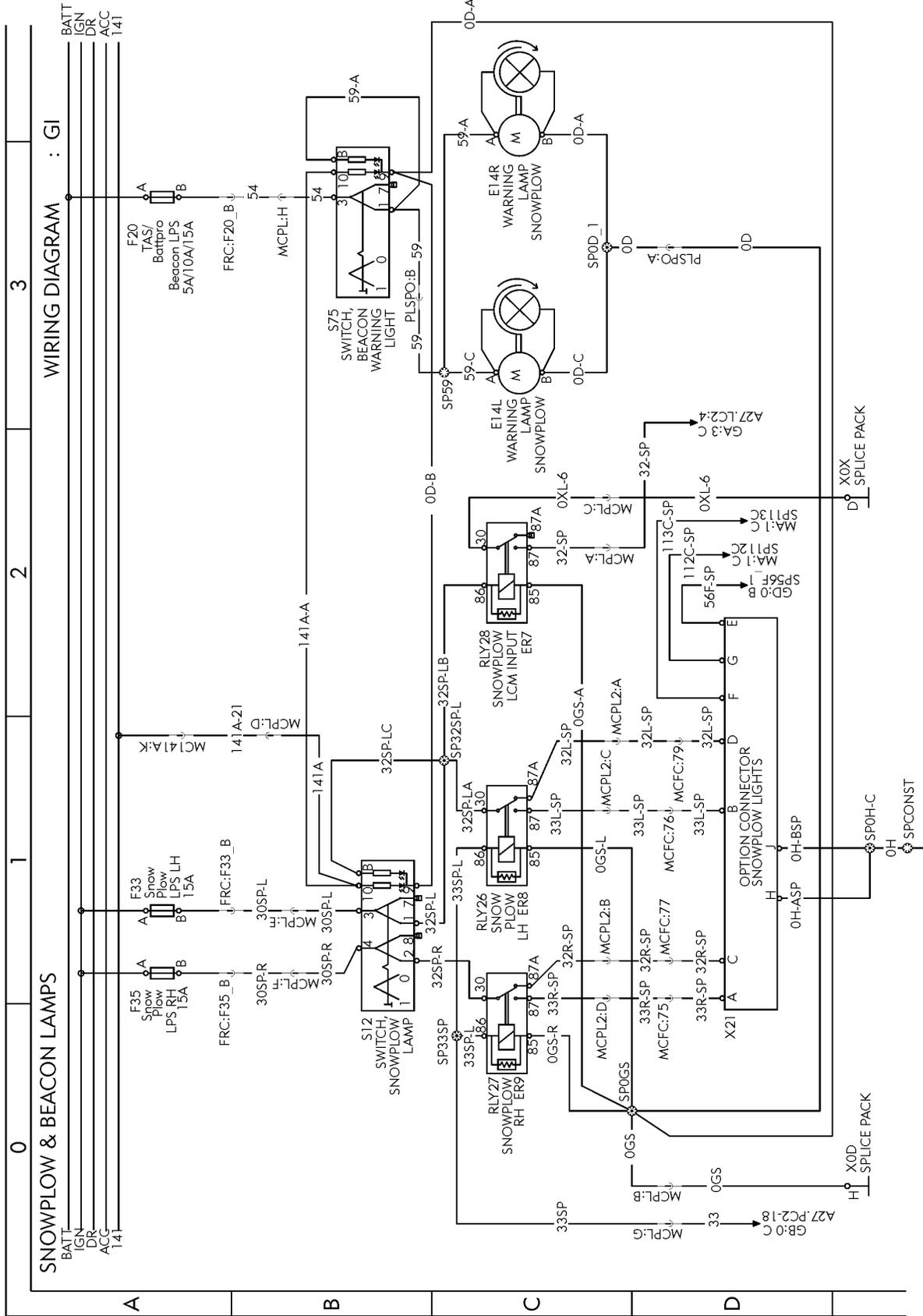


Fig. 47: GI

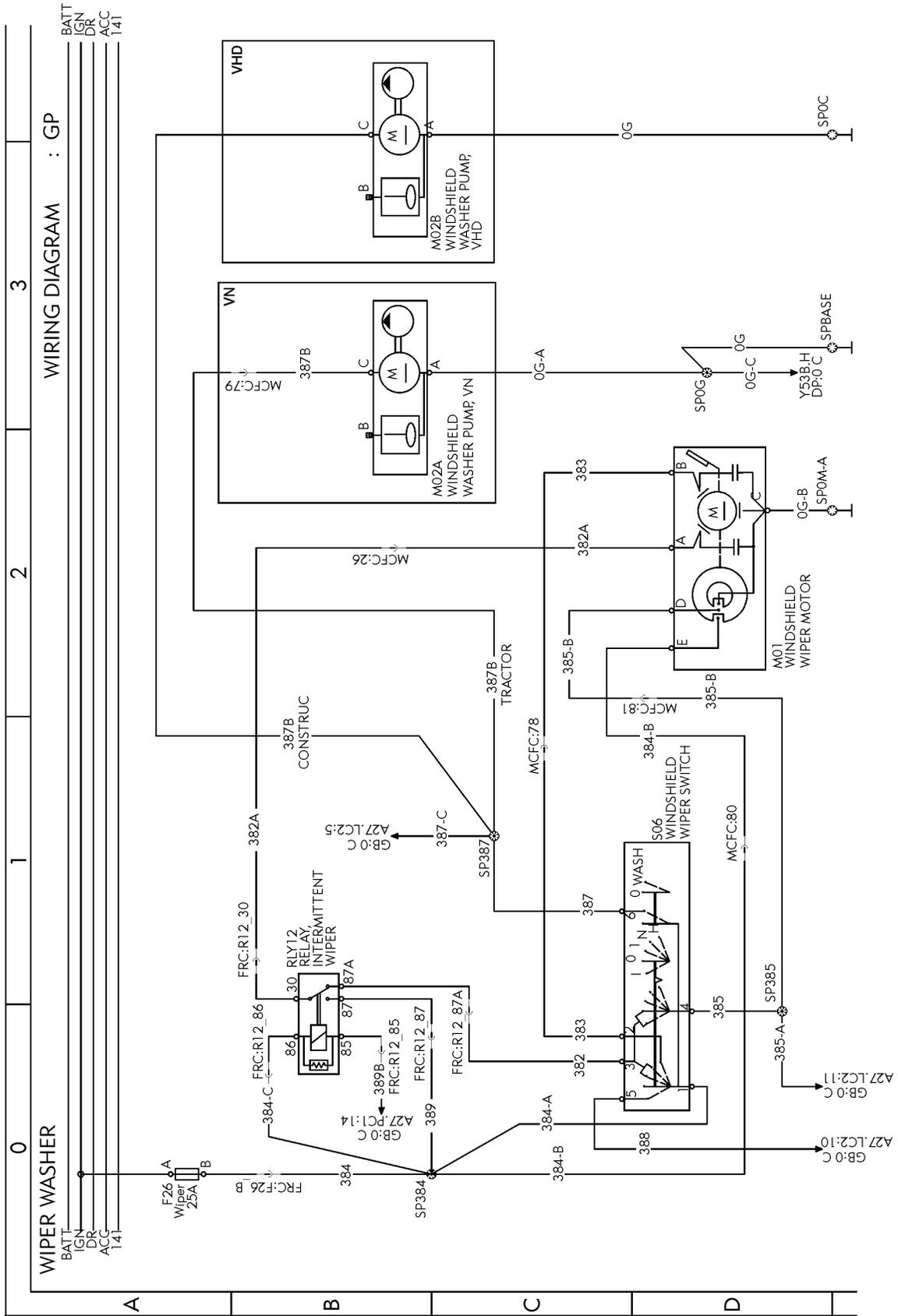


Fig. 48: GP

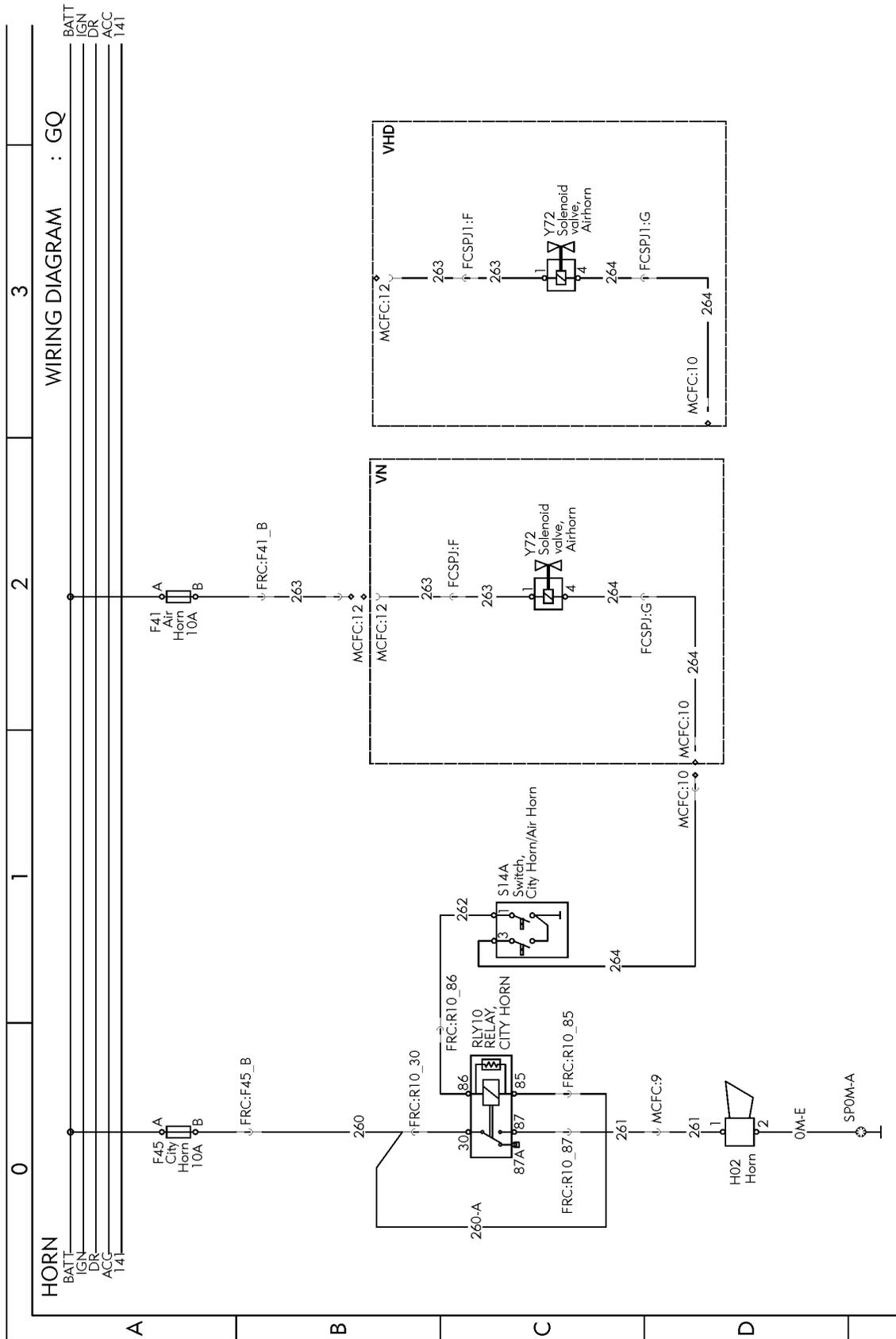


Fig. 49: GQ

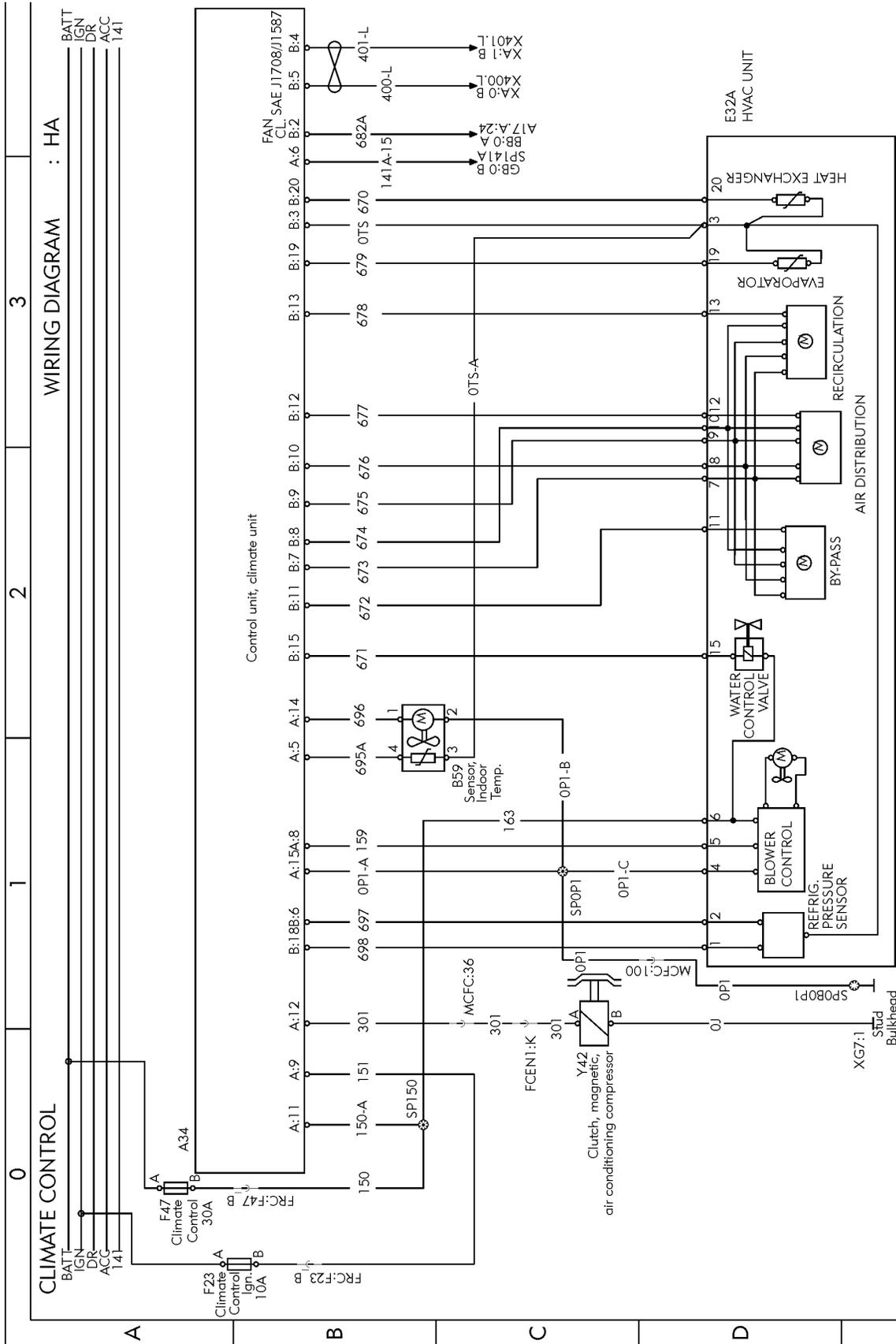


Fig. 50: HA

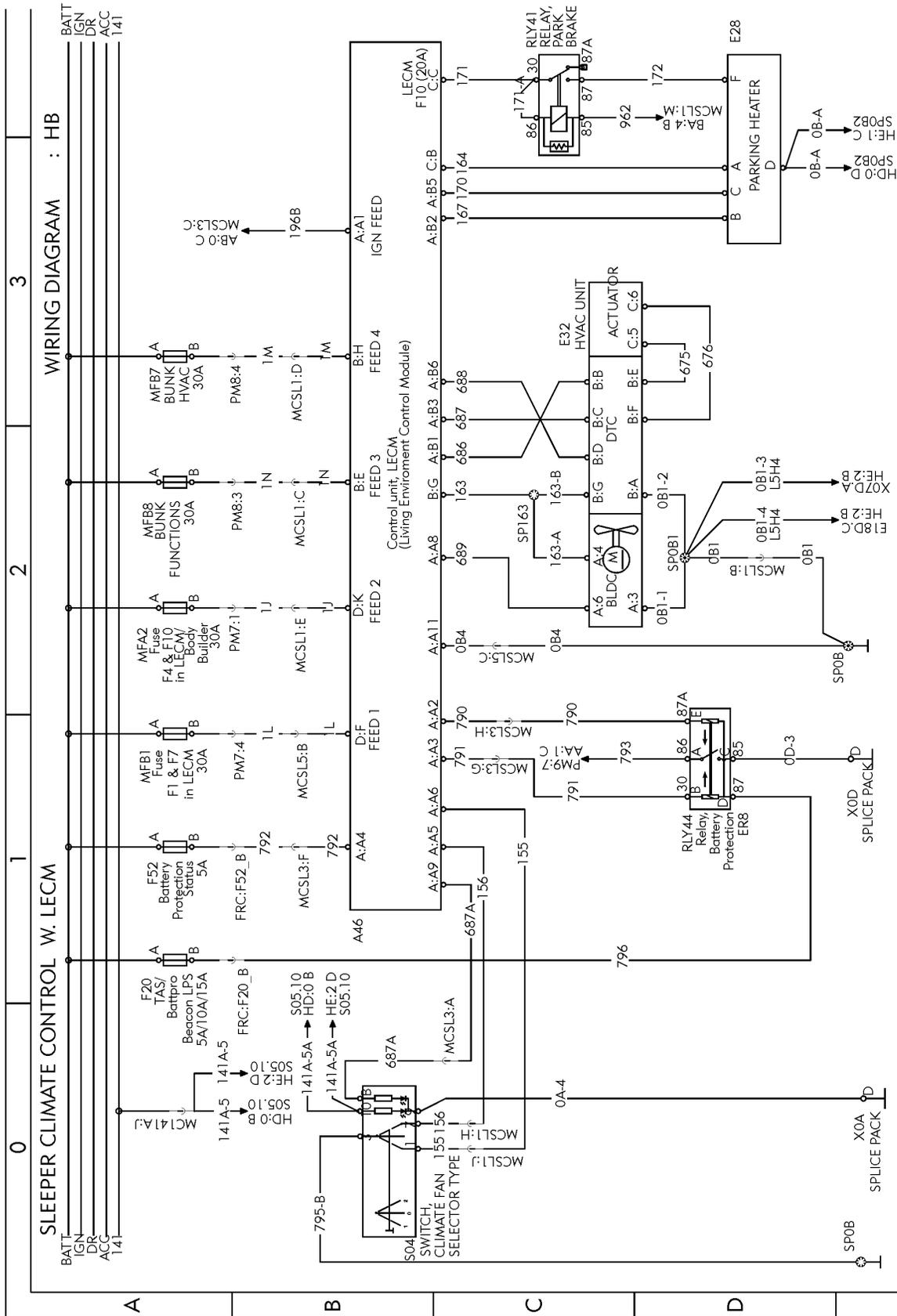


Fig. 51: HB

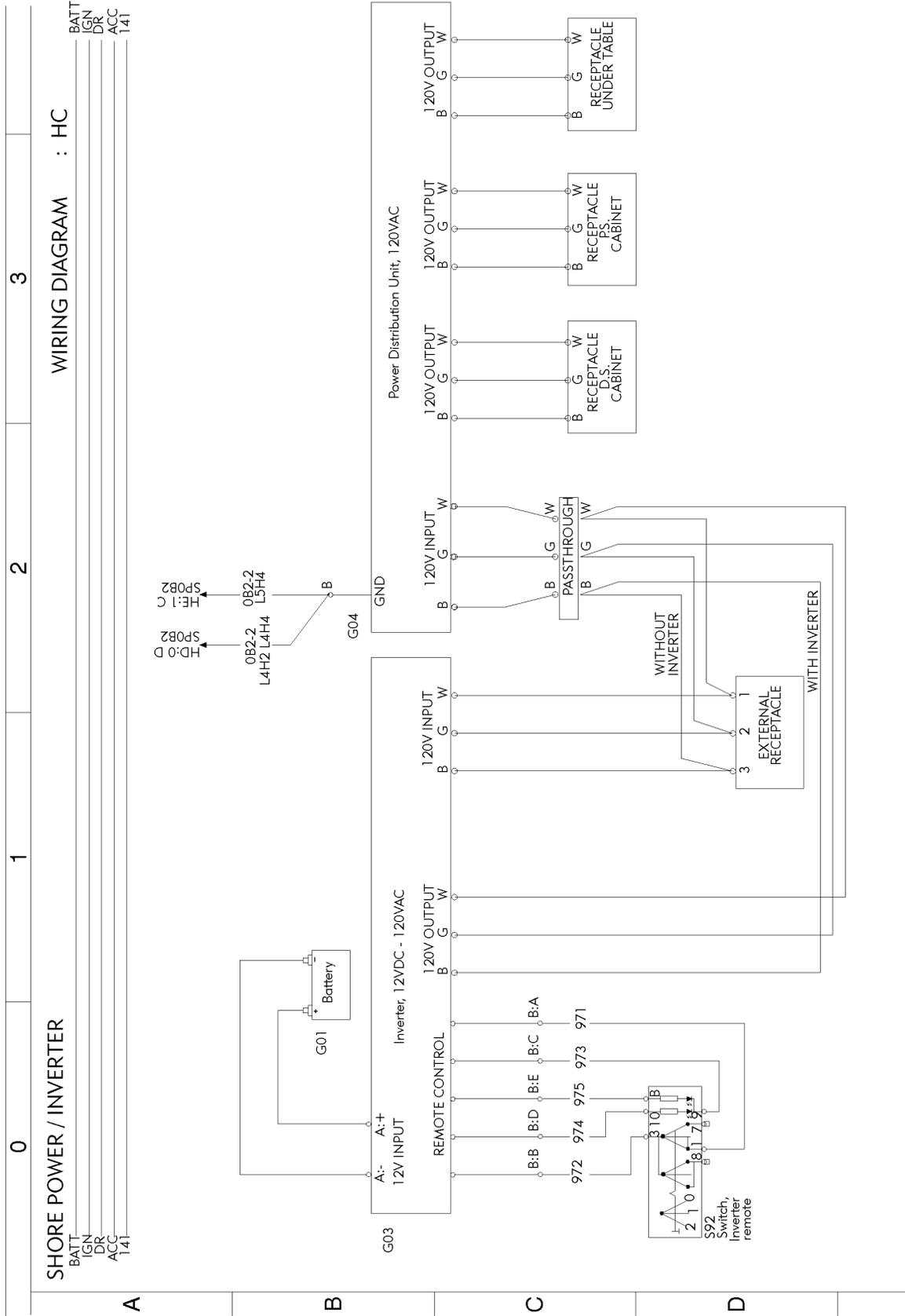


Fig. 52: HC

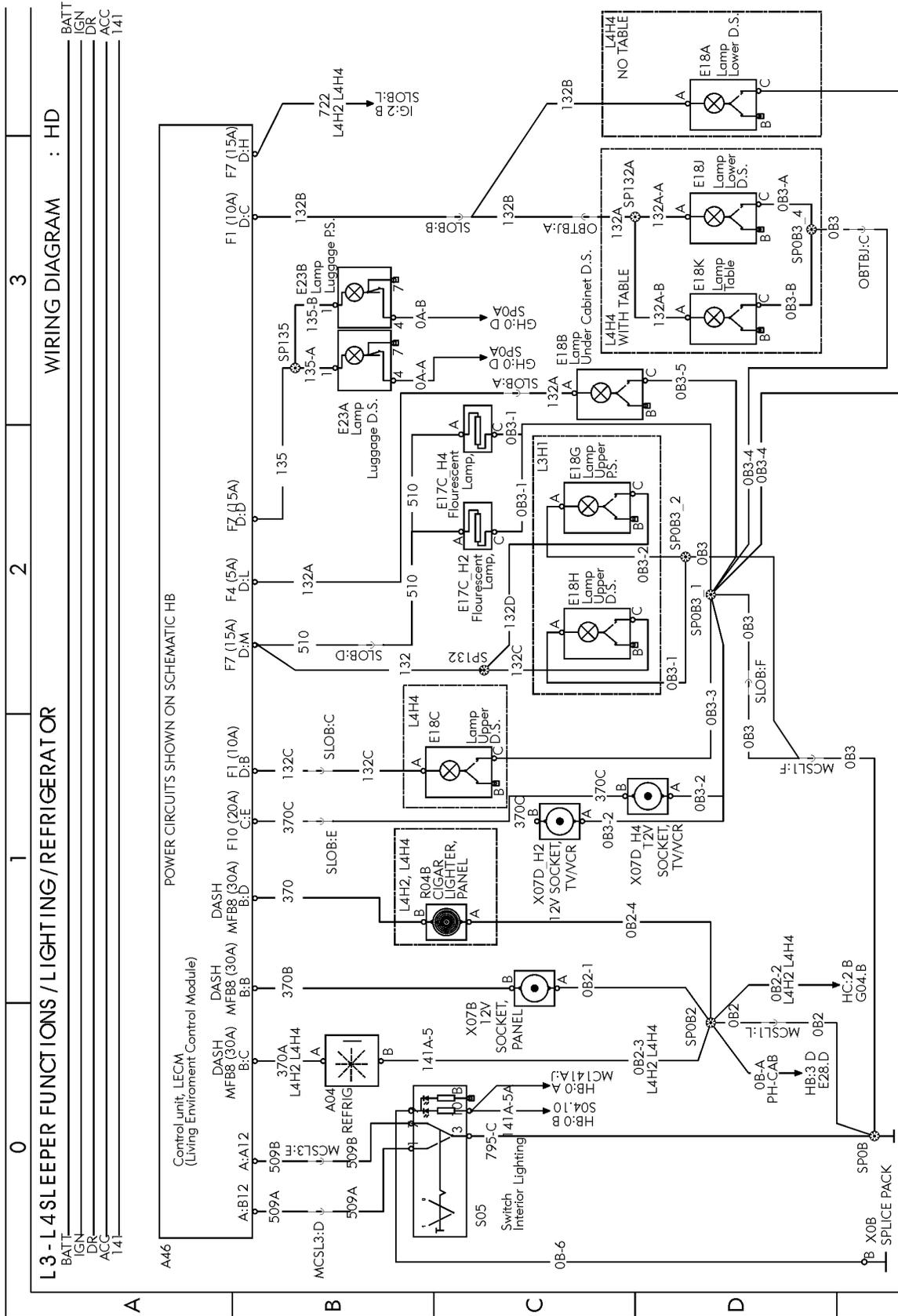


Fig. 53: HD

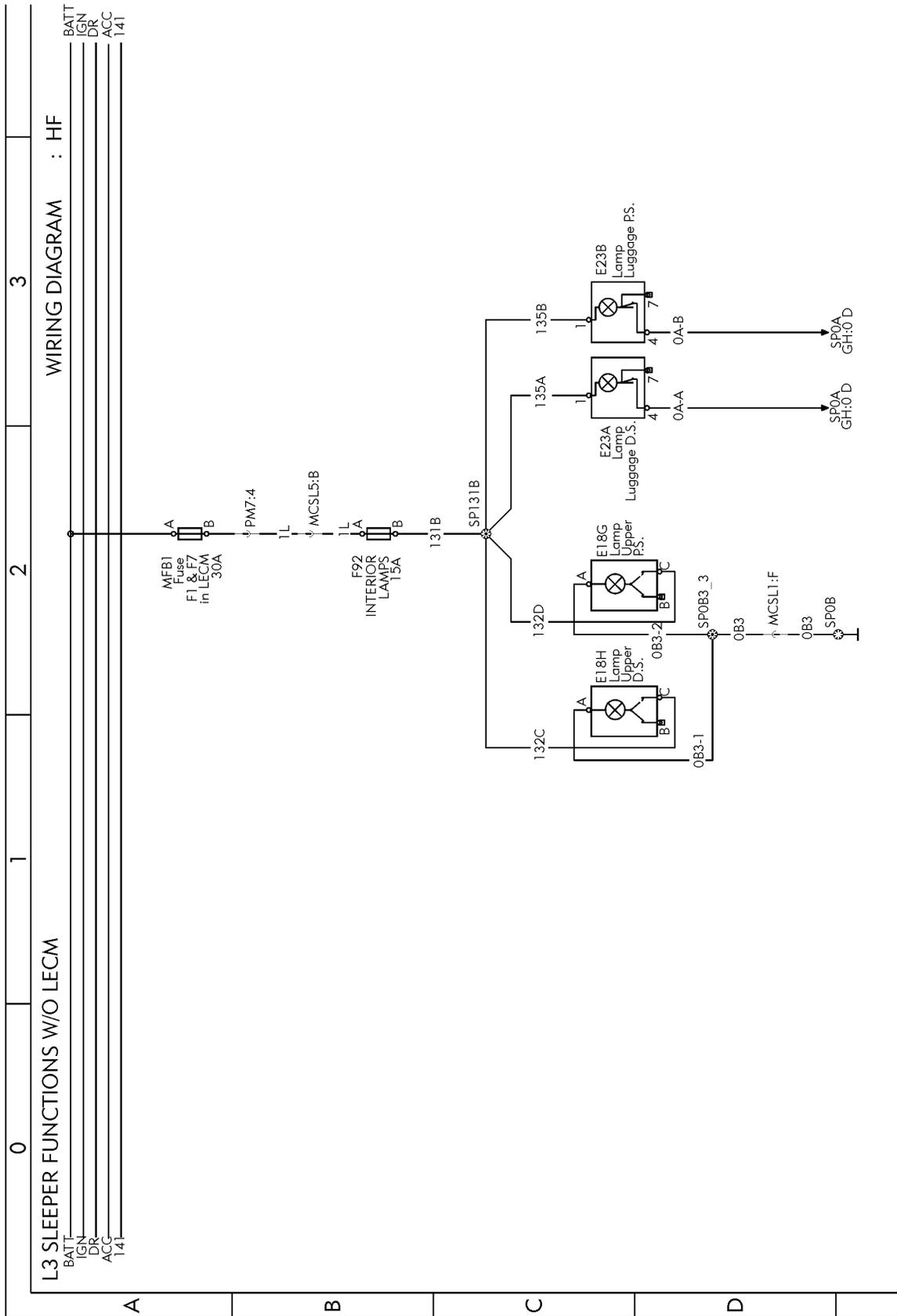


Fig. 55: HF

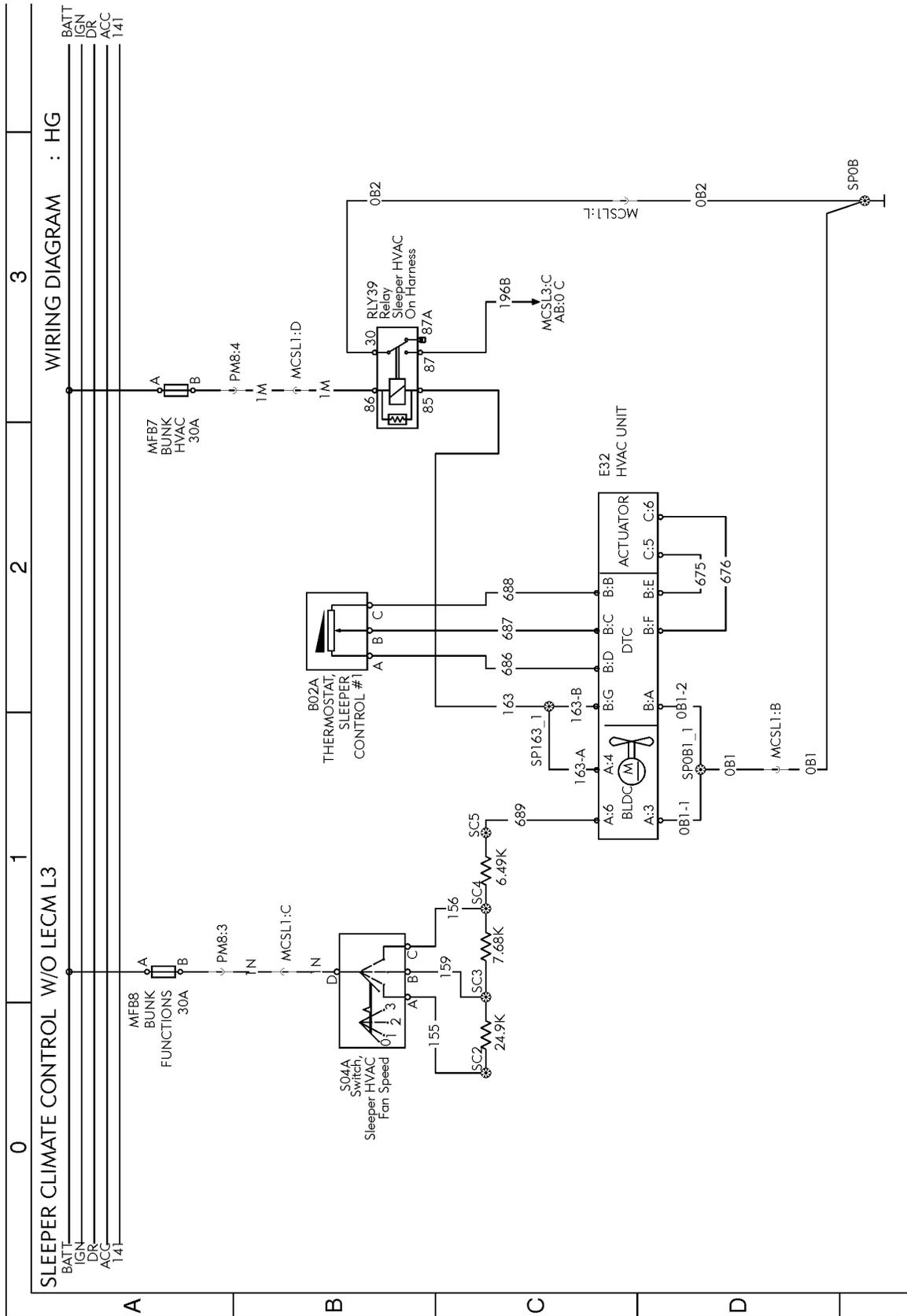


Fig. 56: HG

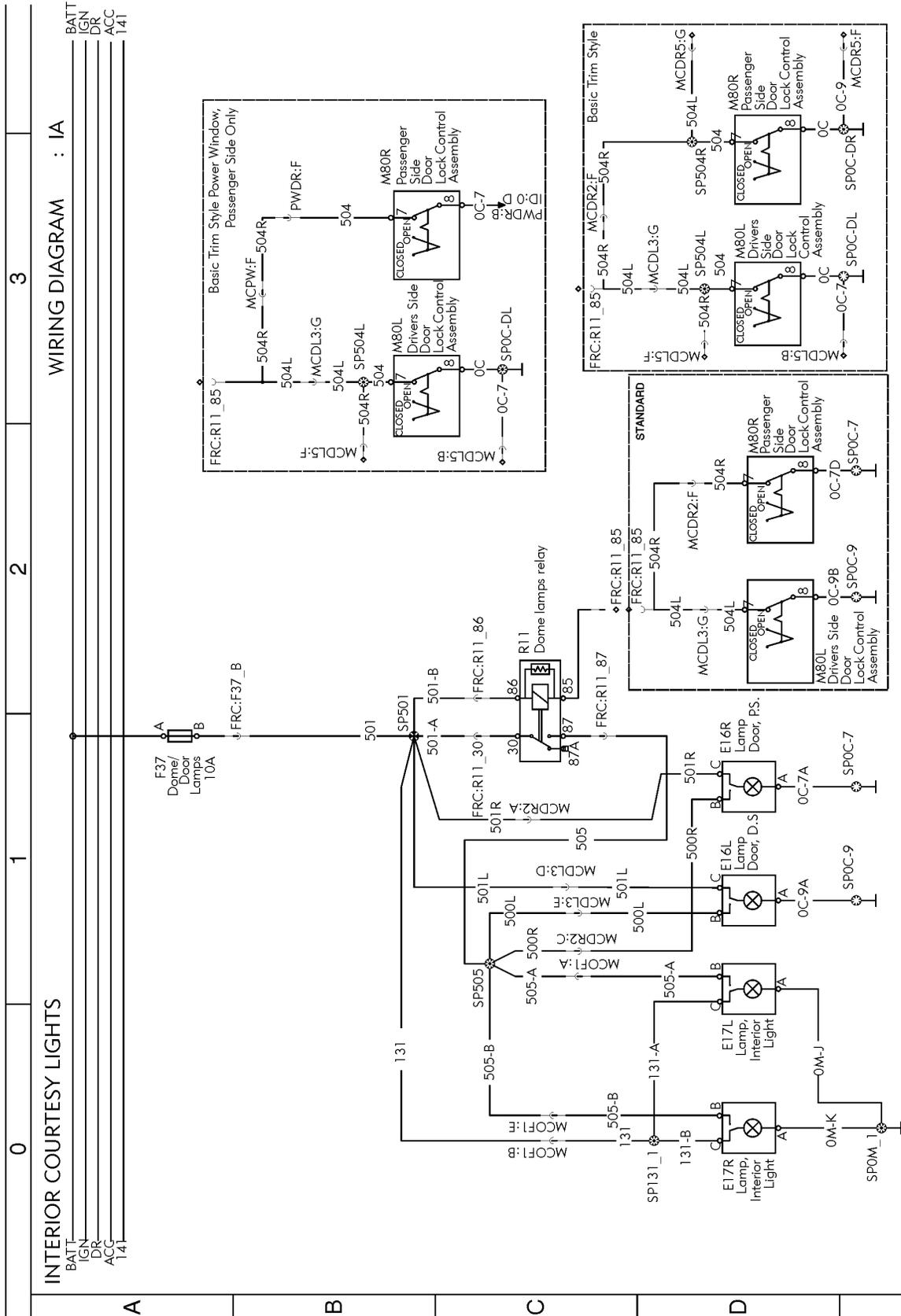


Fig. 57: IA

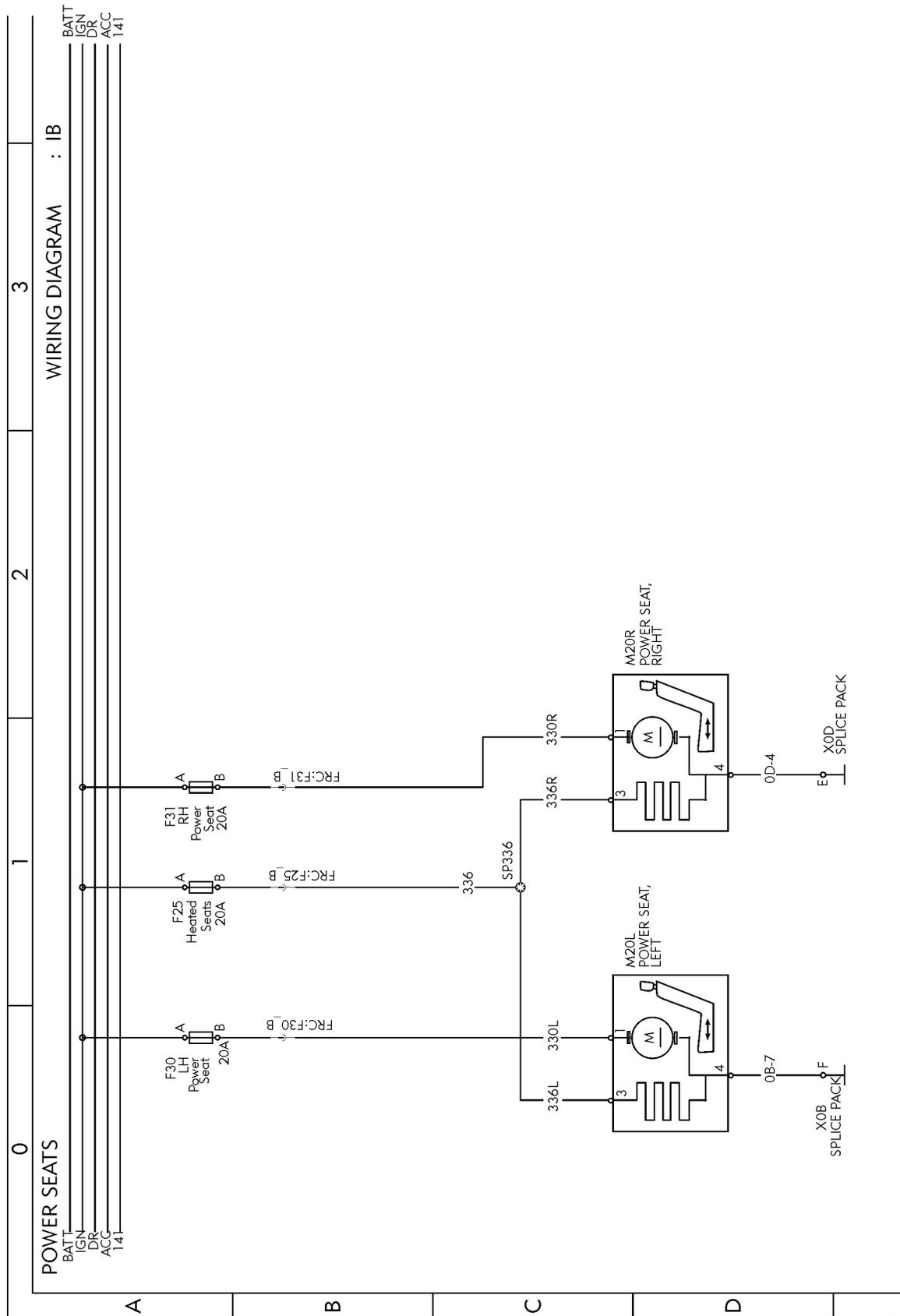


Fig. 58: IB

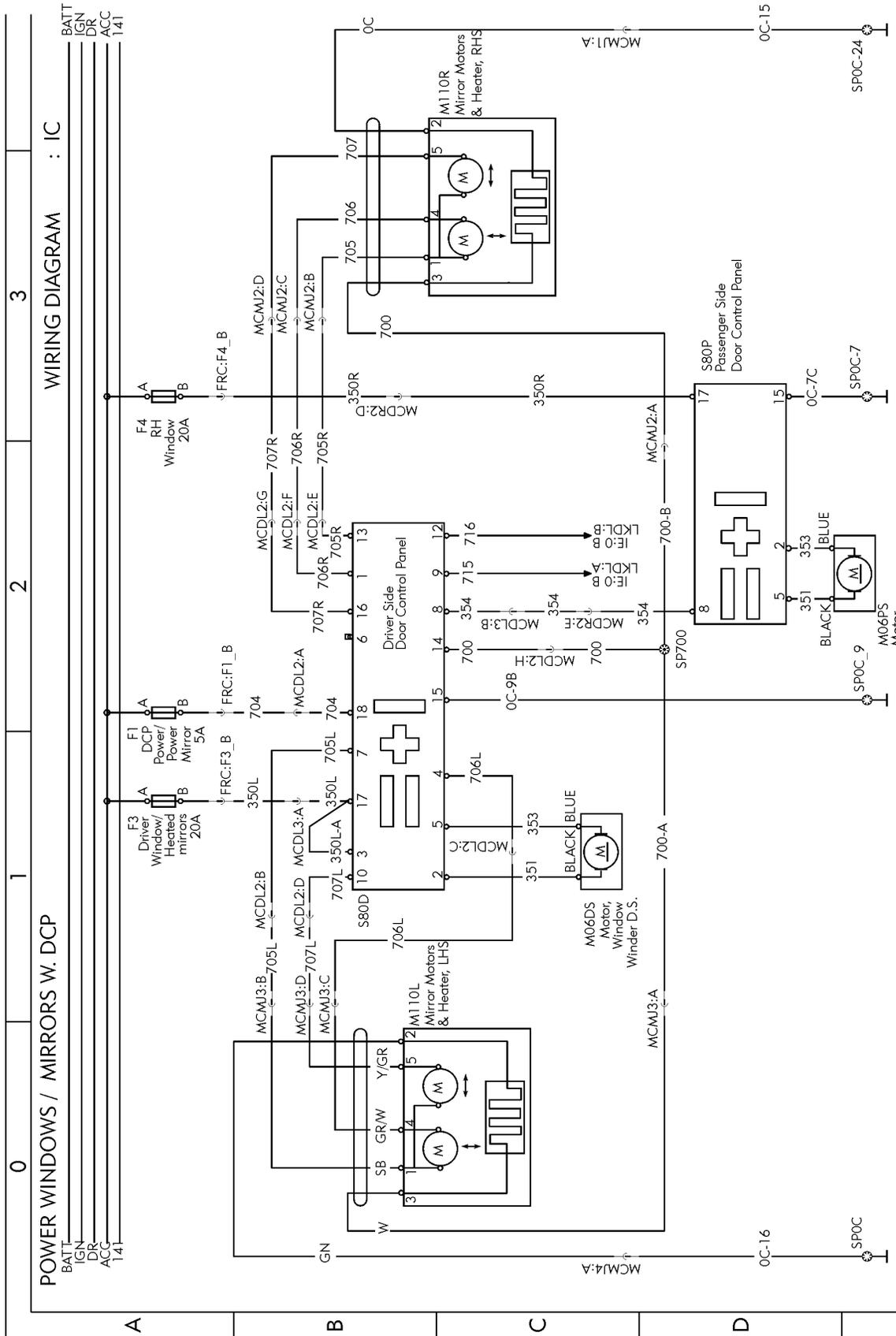


Fig. 59: IC

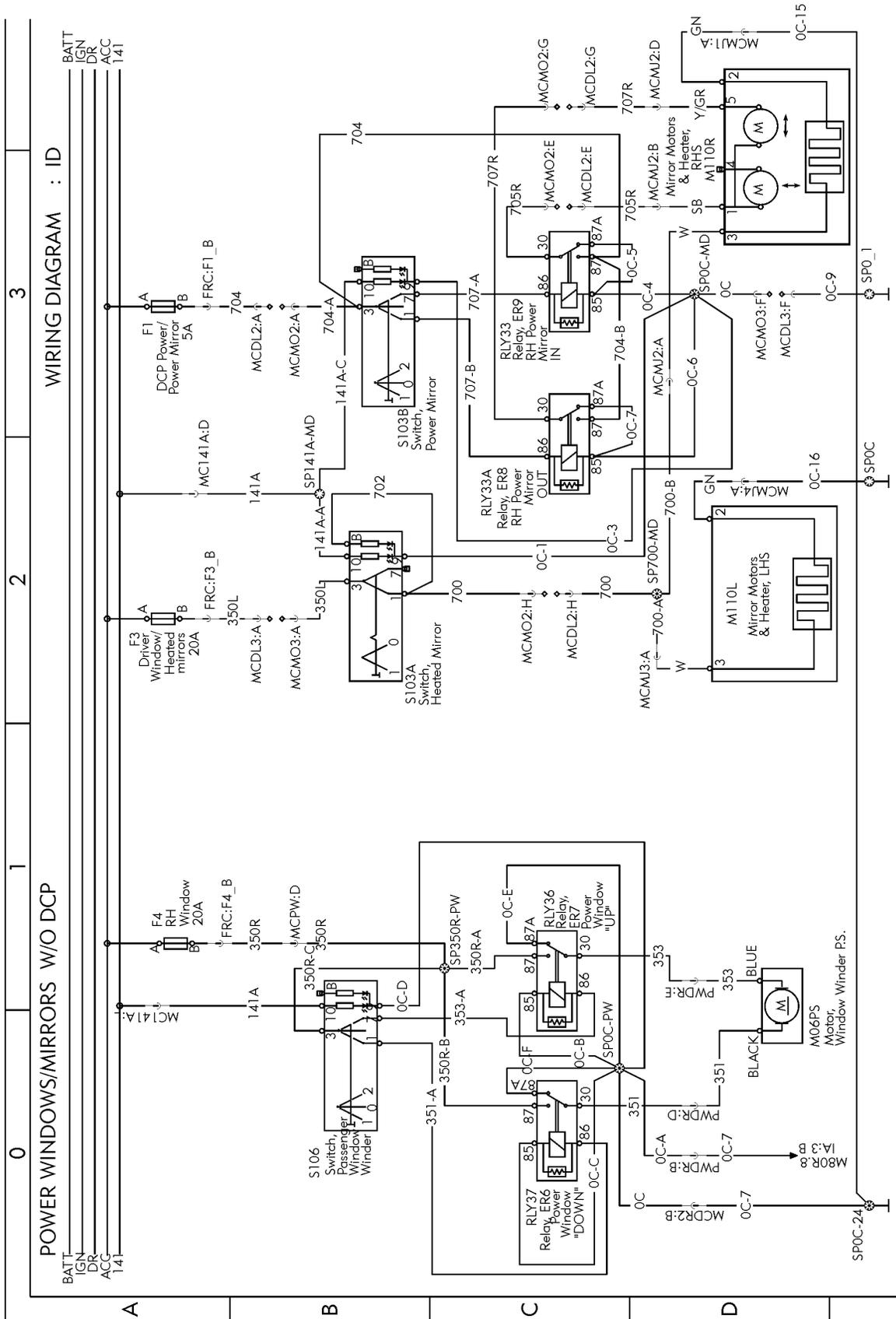


Fig. 60: ID

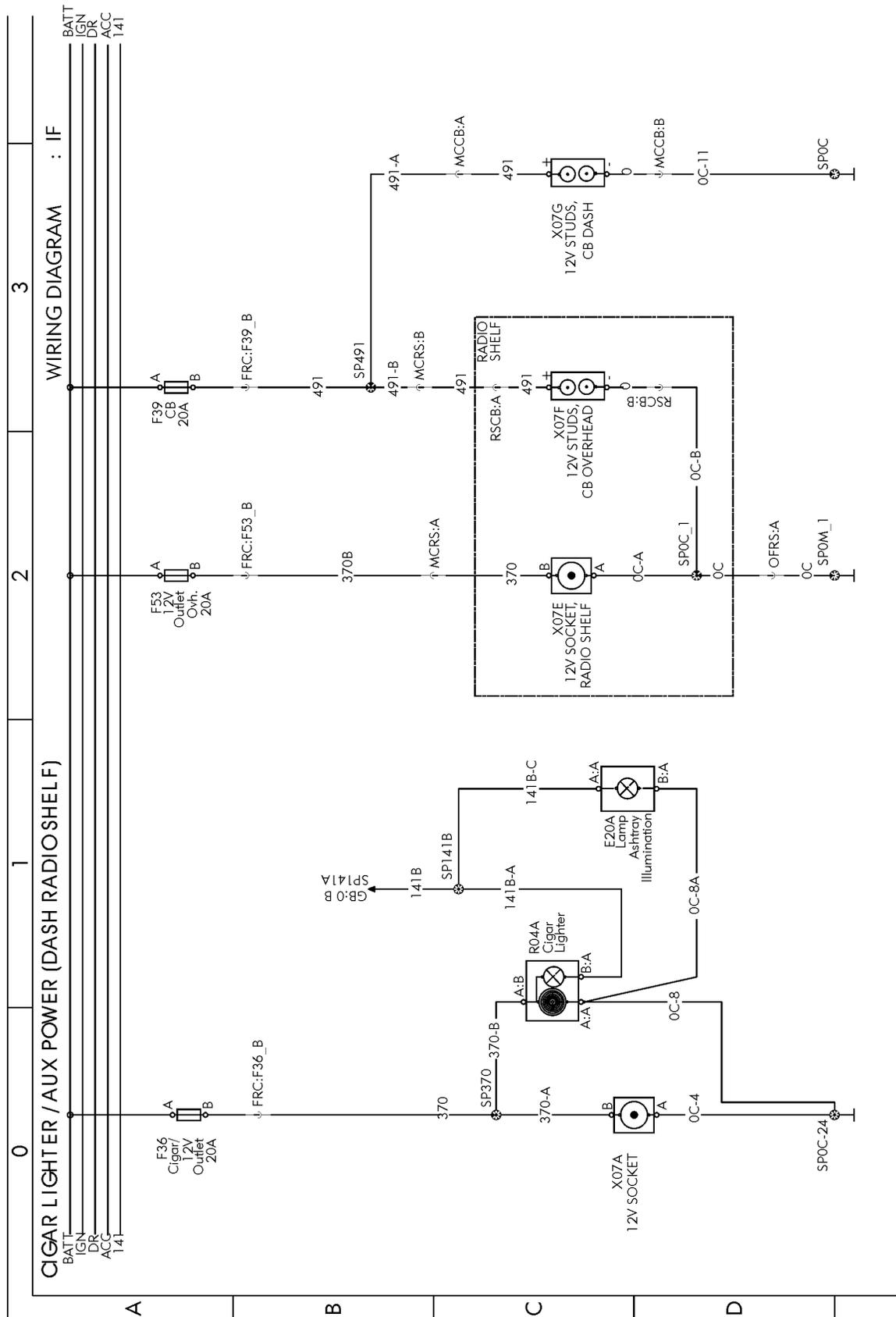


Fig. 62: IF

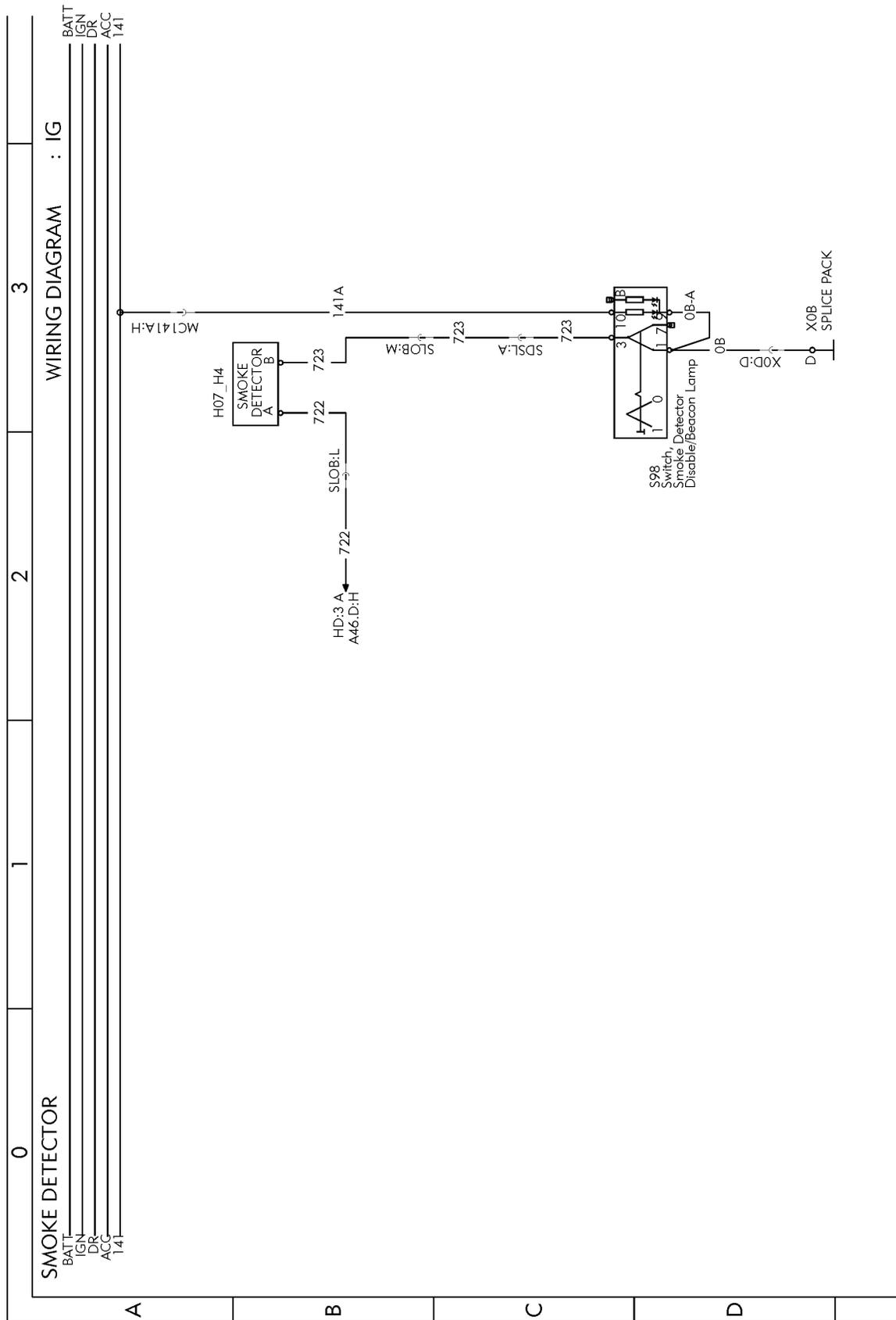


Fig. 63: IG

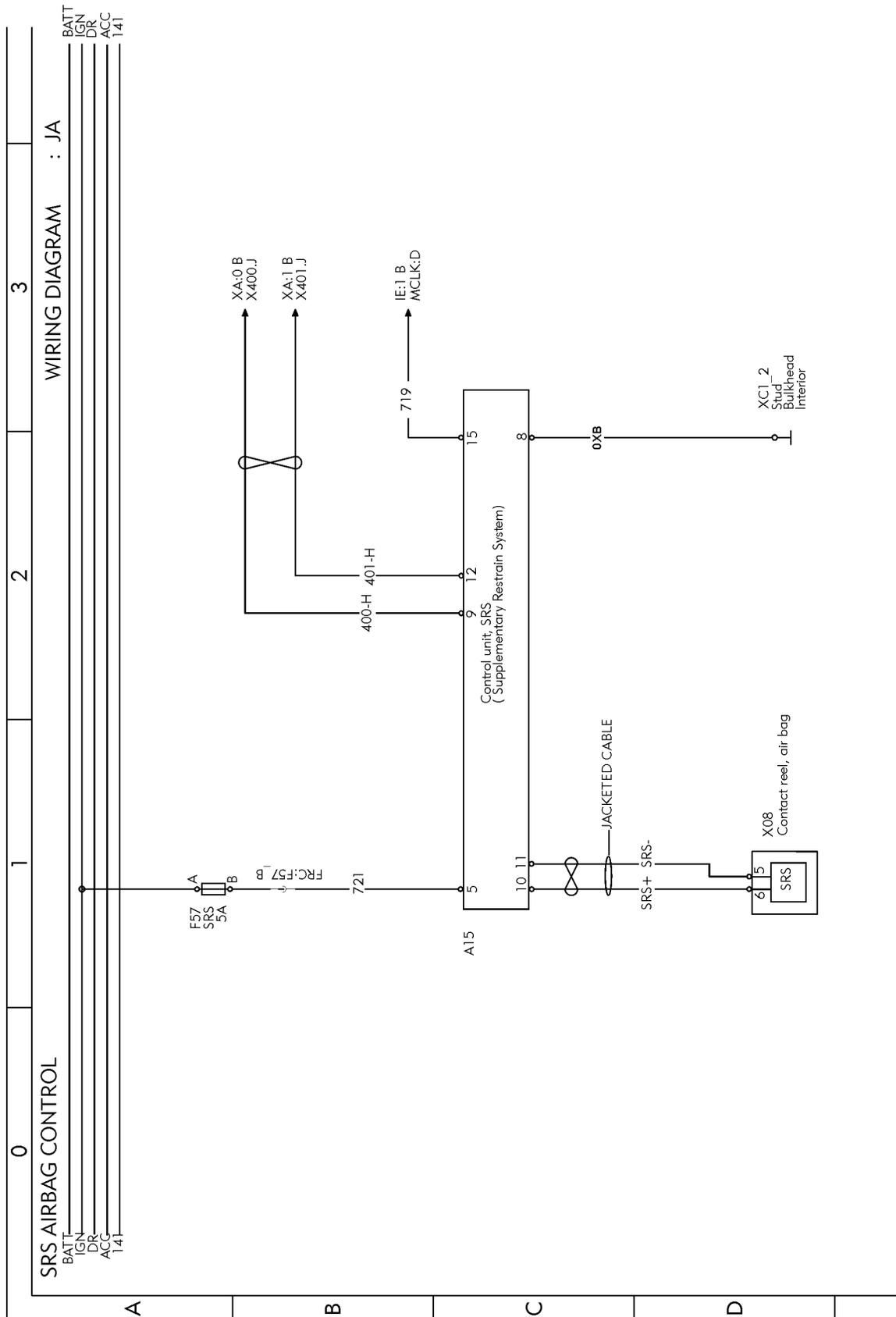


Fig. 64: JA

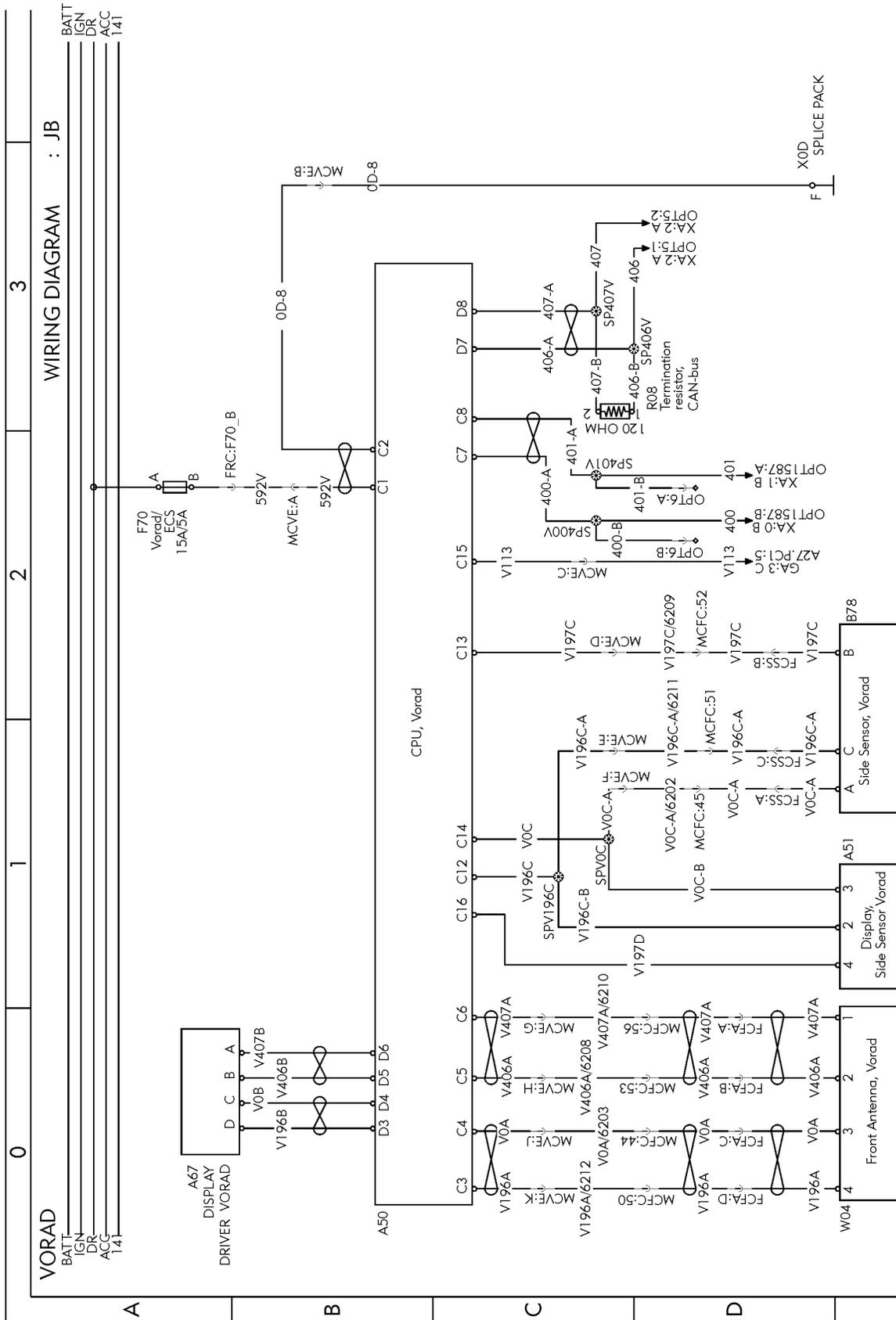


Fig. 65: JB

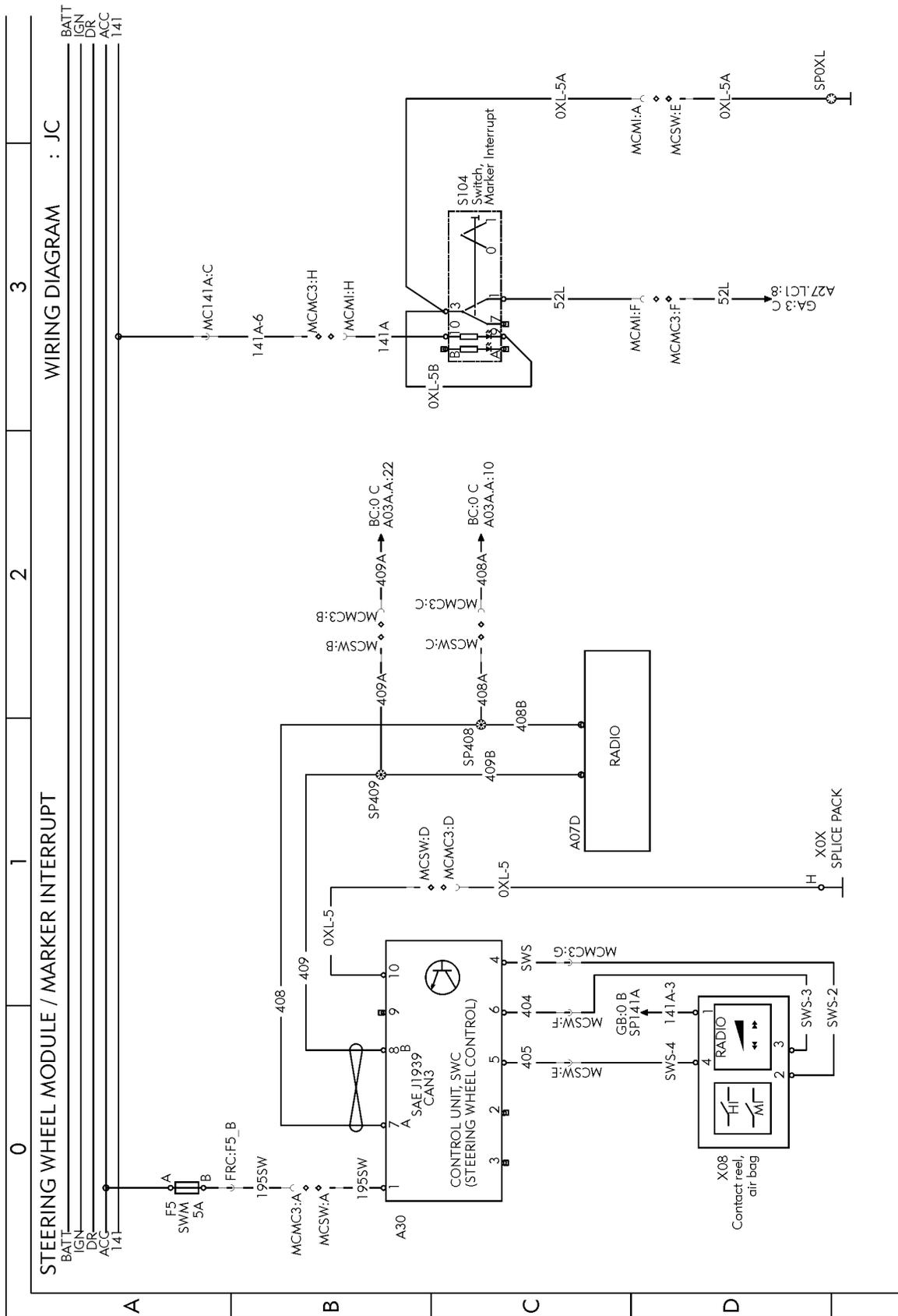


Fig. 66: JC

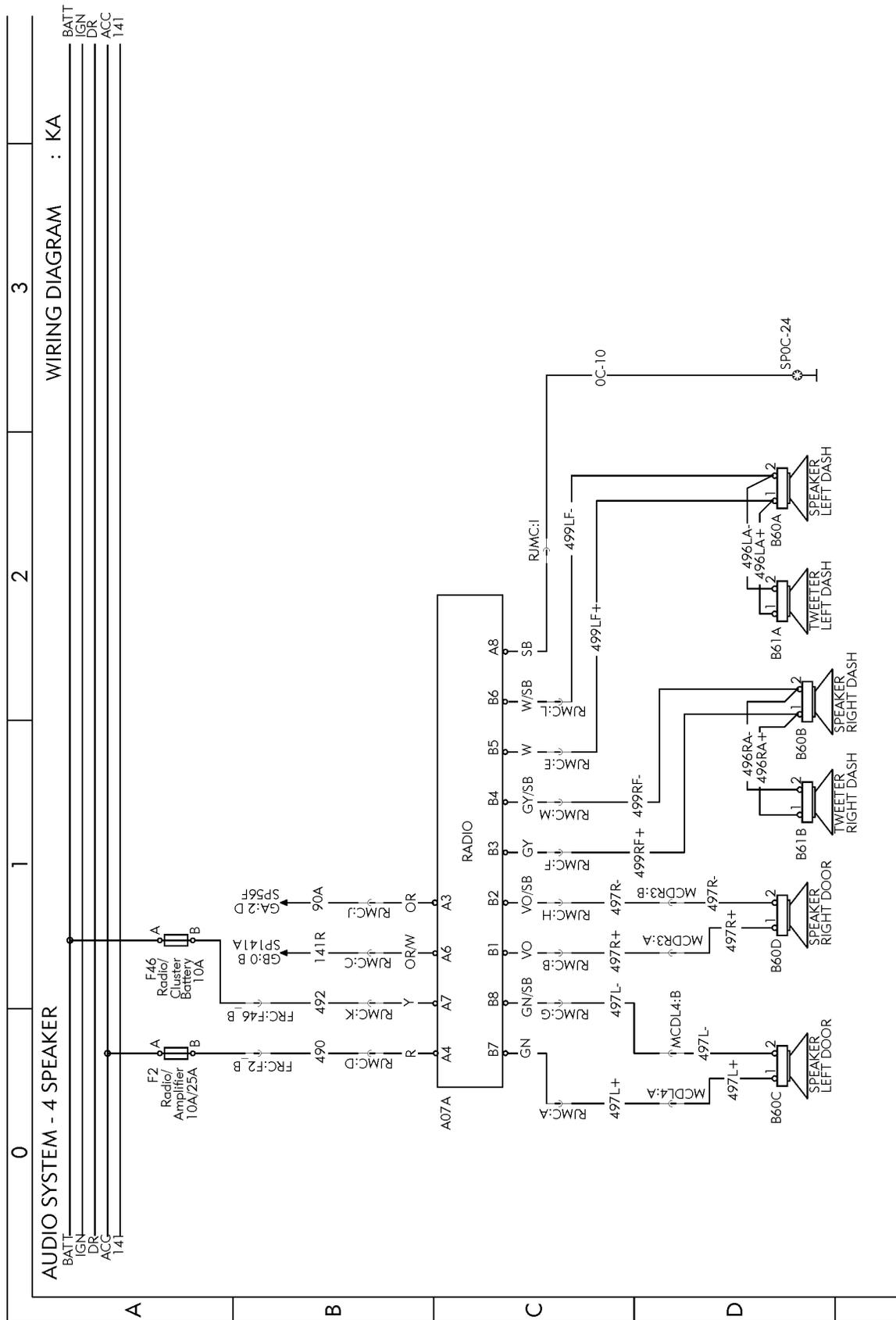


Fig. 67: KA

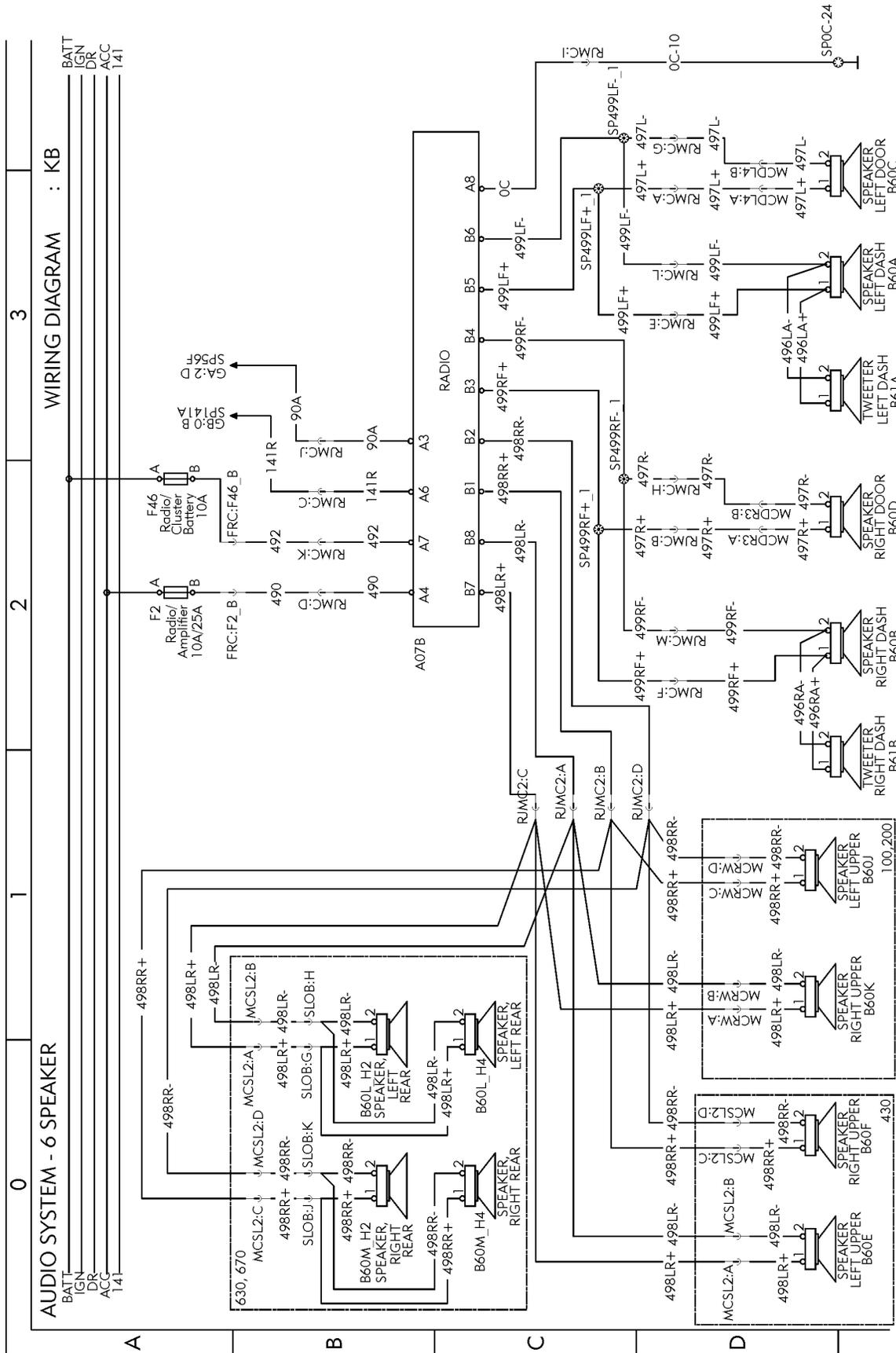


Fig. 68: KB

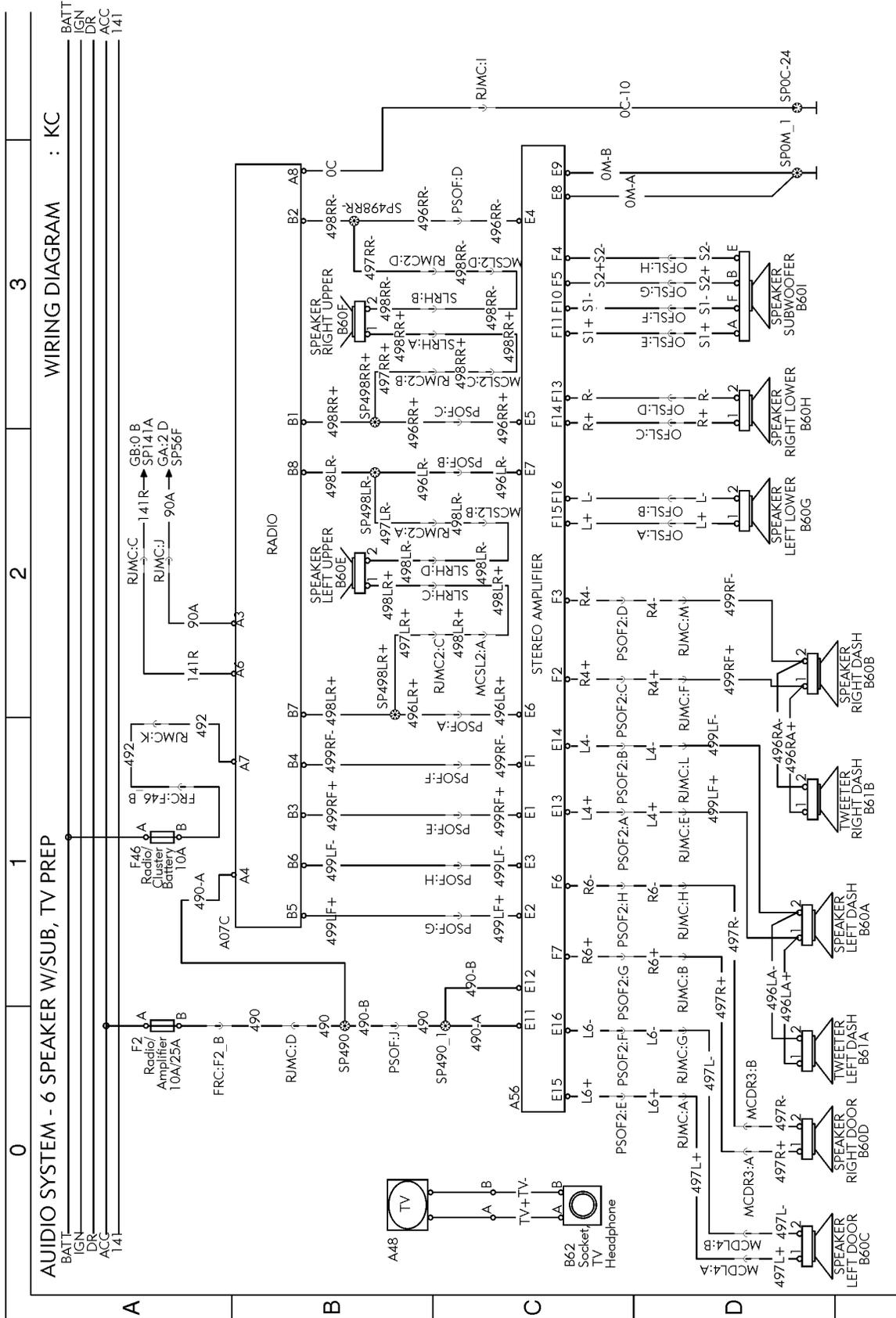


Fig. 69: KC

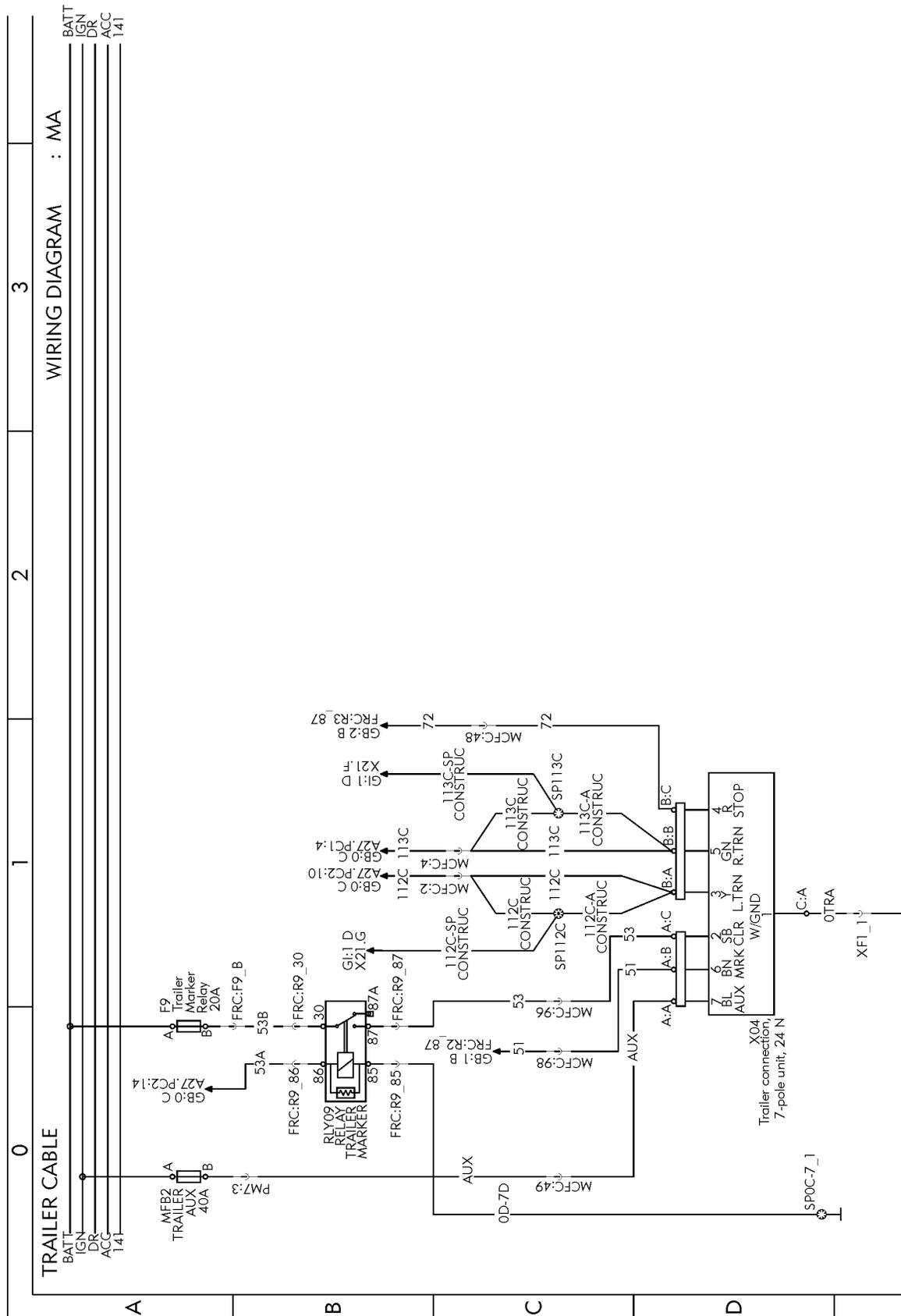


Fig. 70: MA

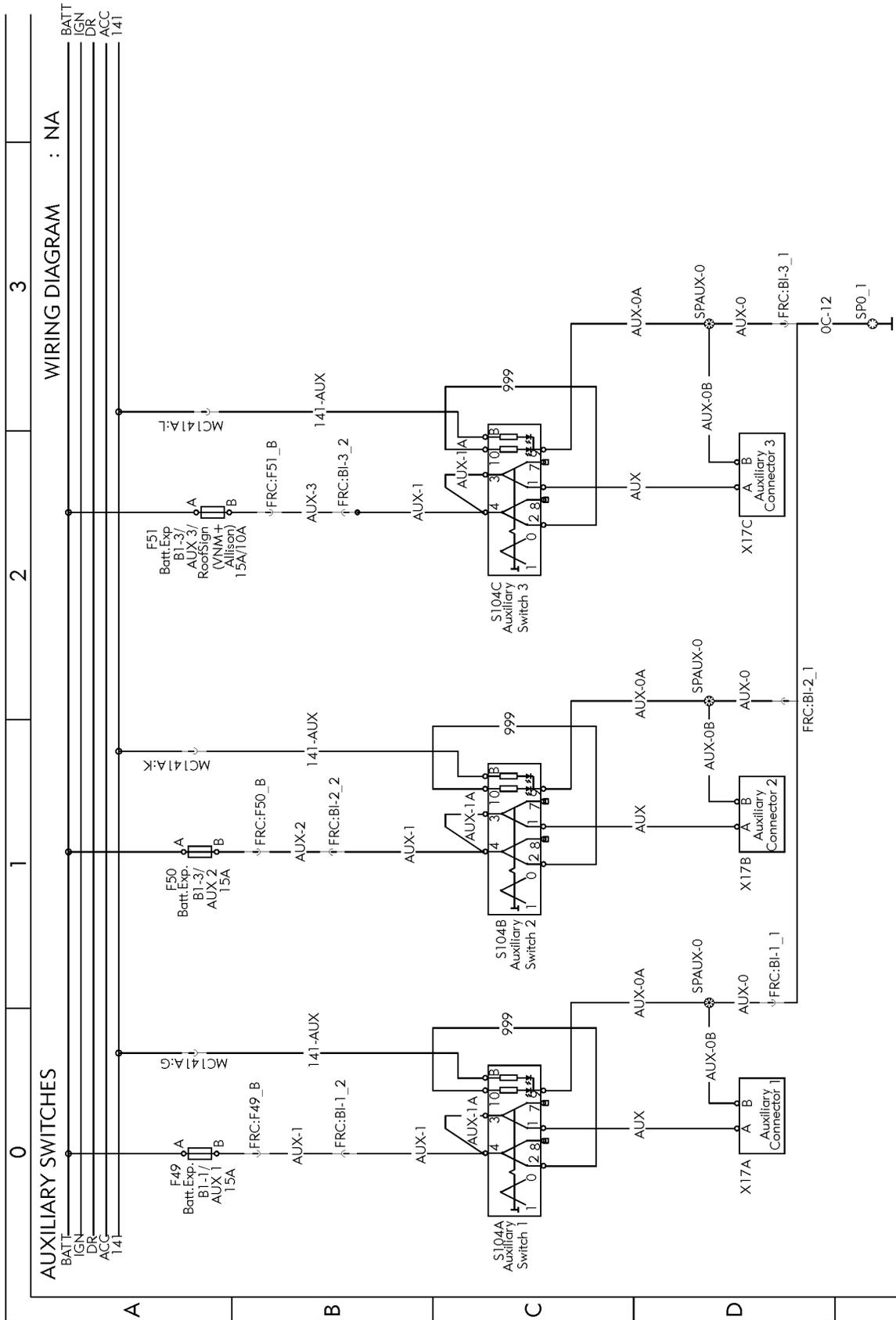


Fig. 71: NA

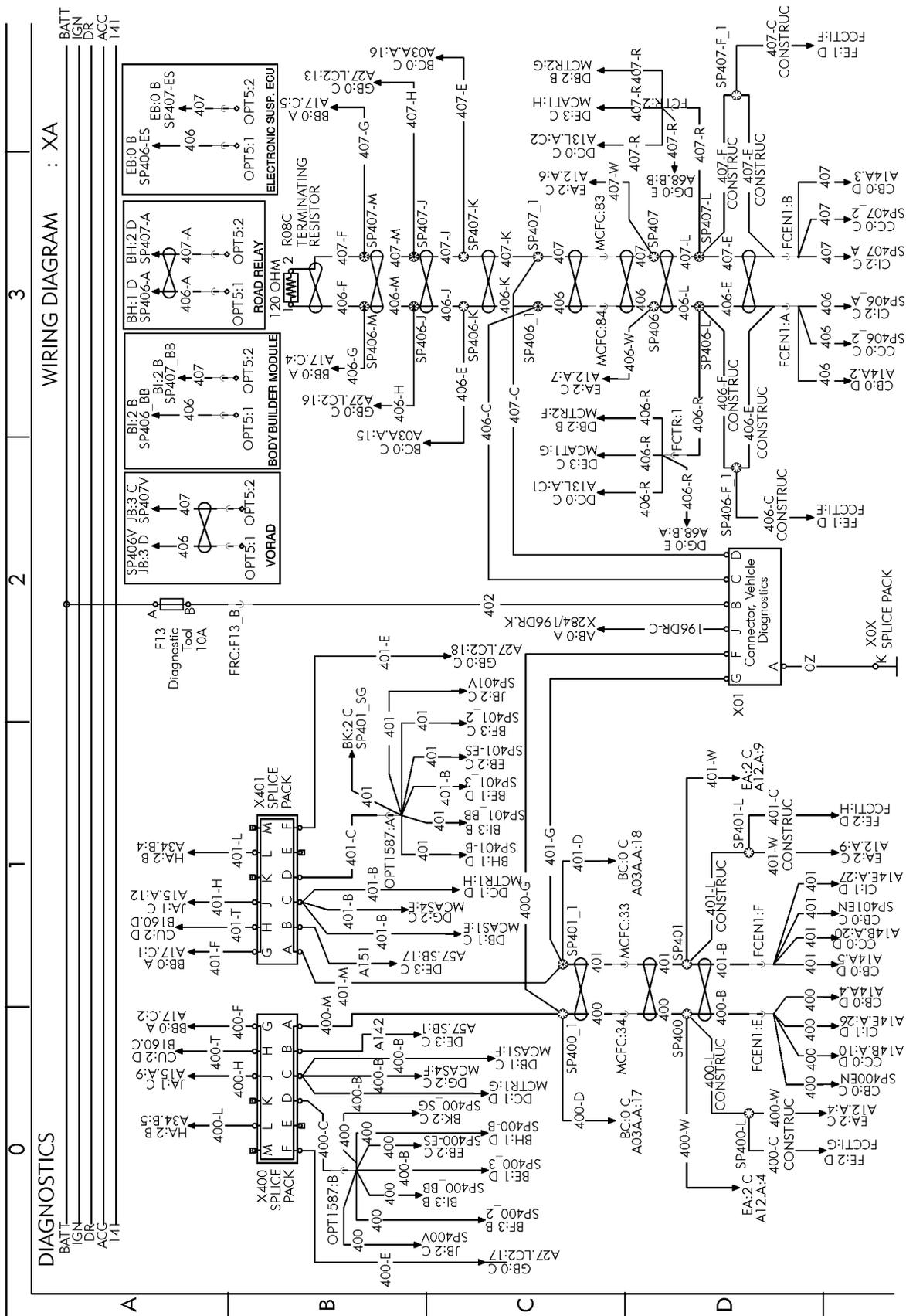


Fig. 72: XA

Illustrations

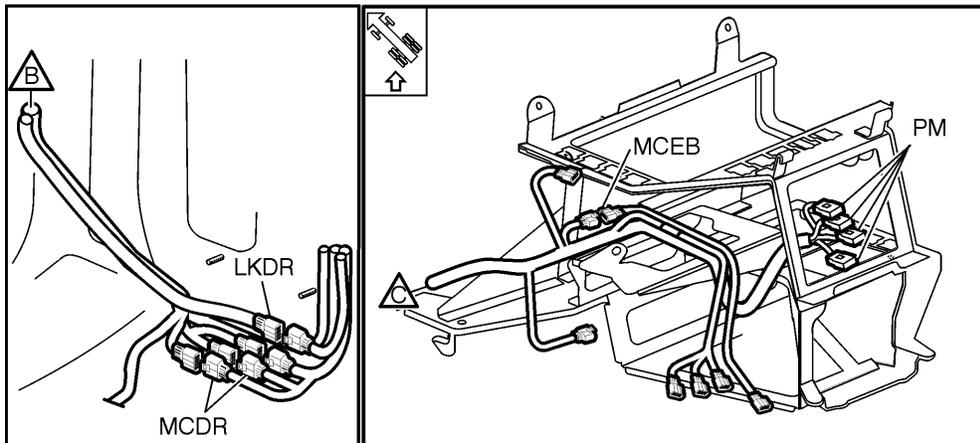
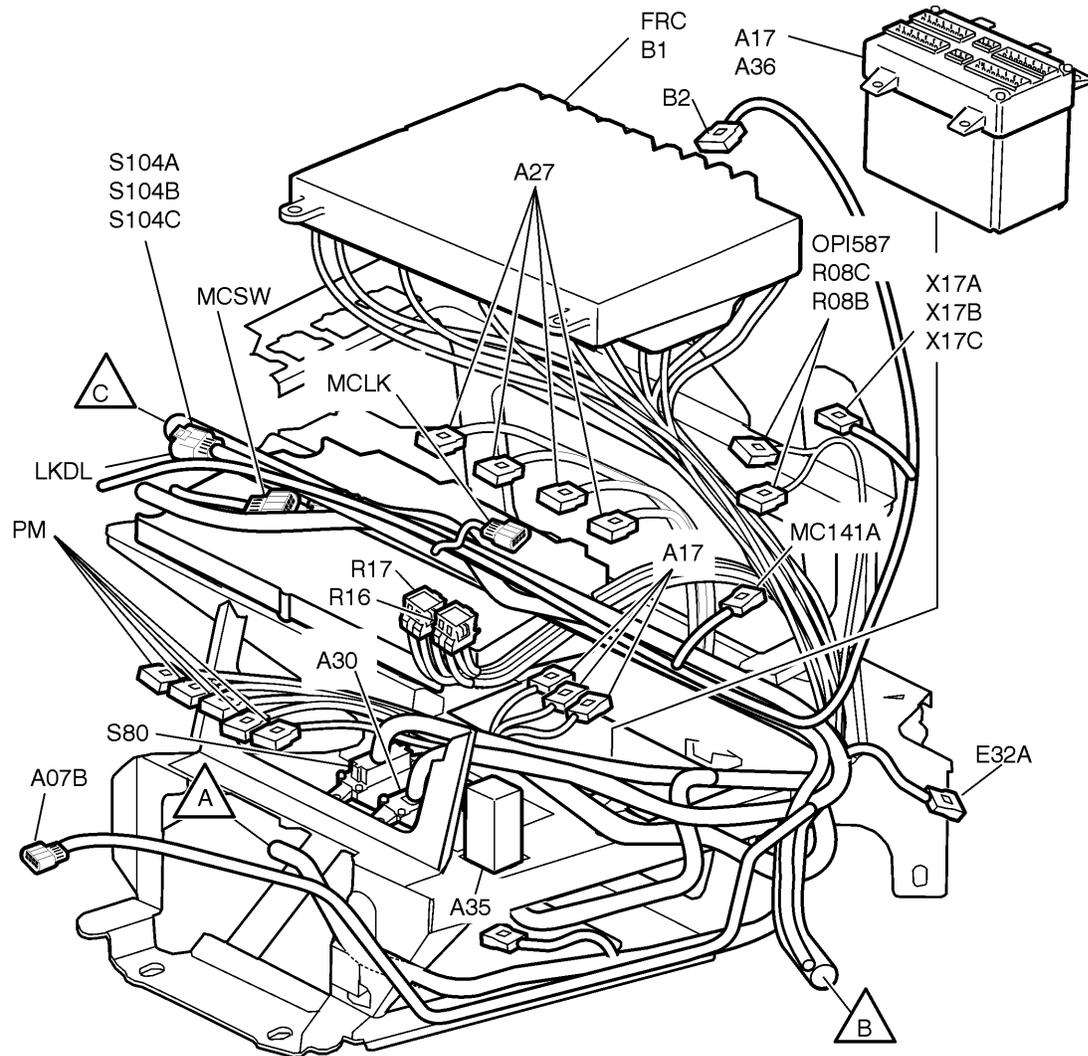
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	Dash Switches, VHD	"Dash Switches, VHD" page 85
	Dash Harness and Cab Wiring Passthrough	"Dash Harness and Cab Wiring Passthrough" page 86
	Dash Harness, Road Relay	"Dash Harness, Road Relay" page 87
	Dash Harness, Qualcomm	"Dash Harness, Qualcomm" page 88
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	Dash Overhead Shelf Harness and CB Power	"Front Overhead Shelf/CB Power Harness" page 90
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	Rear Cab Harness, Fifth Wheel Light and Speakers (Daycab)	"Rear Cab Harness, Fifth Wheel Light and Rear Speakers (Daycab)" page 105
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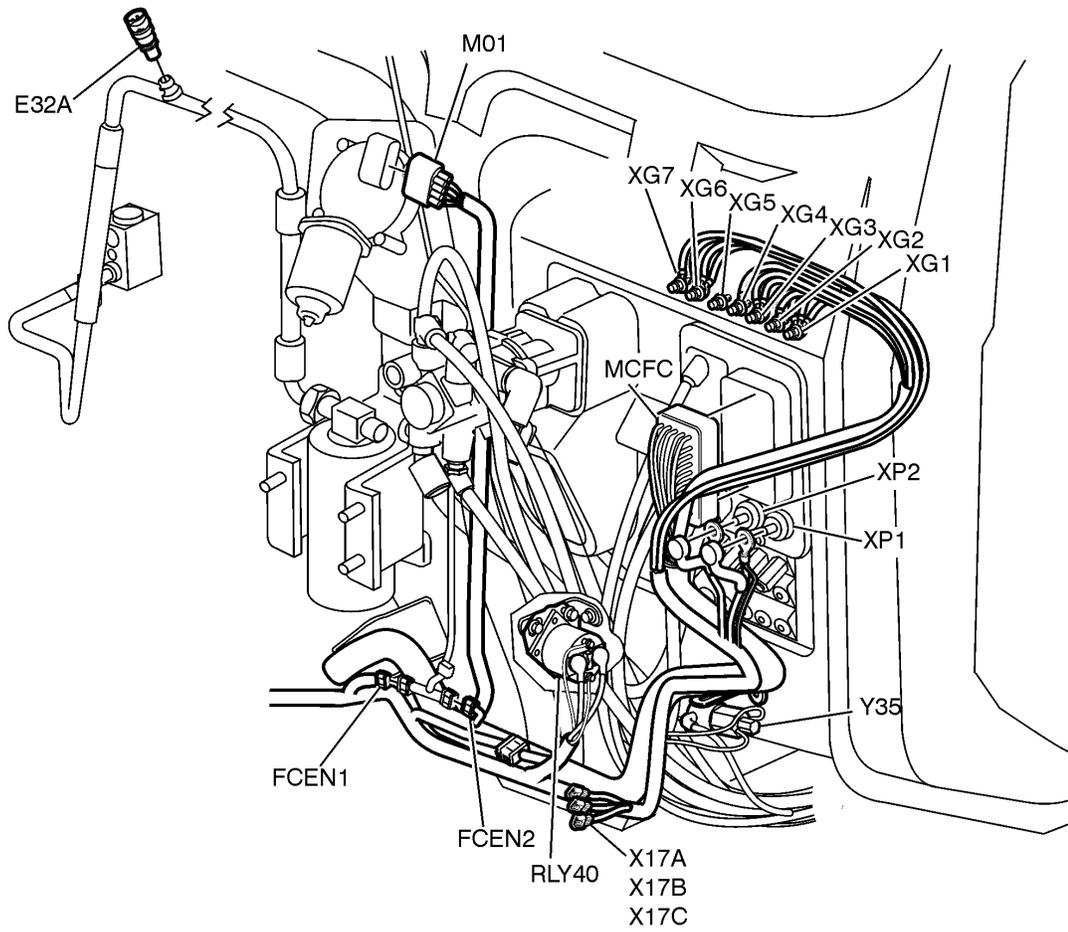
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Fuse and Relay Center, Main Cab Harness (including Bodybuilder Module)



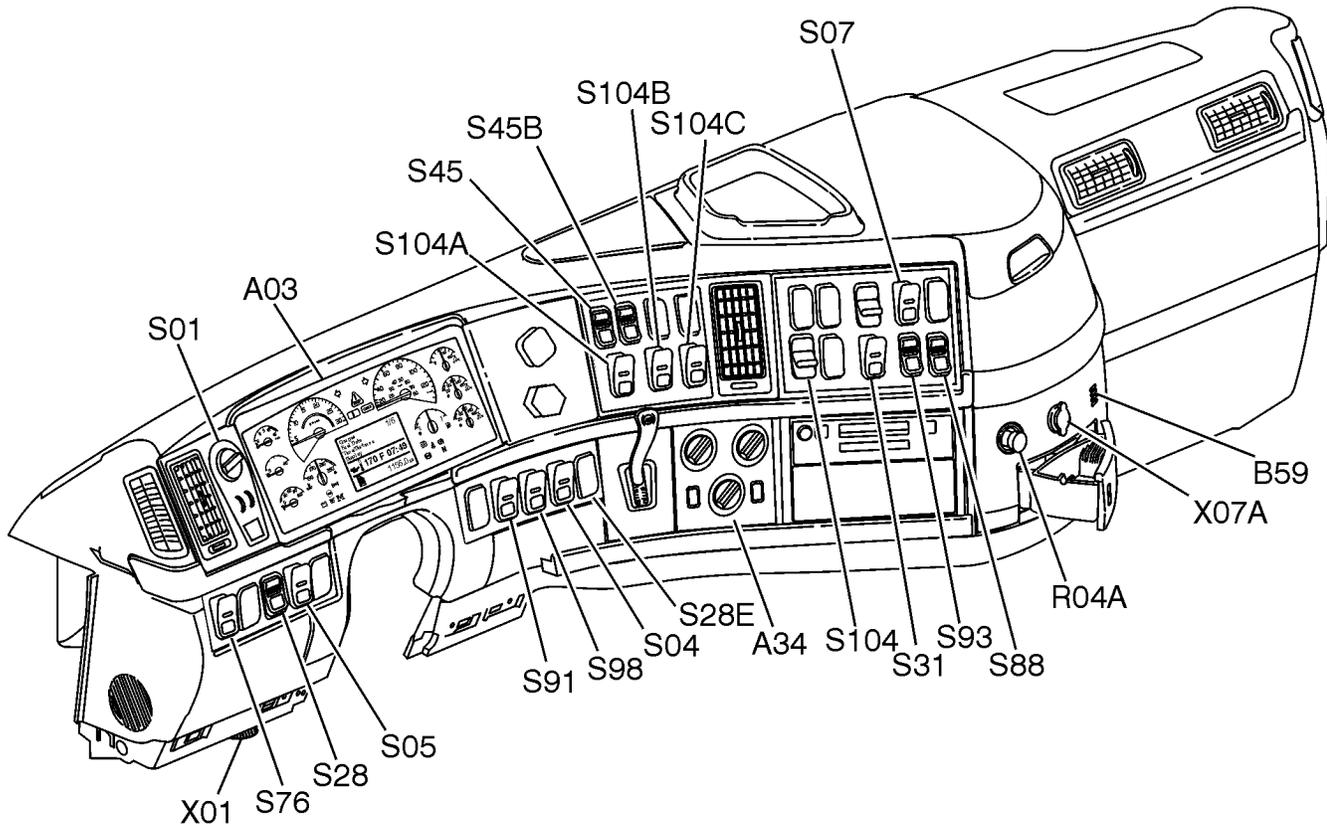
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Cab Wiring Passthrough



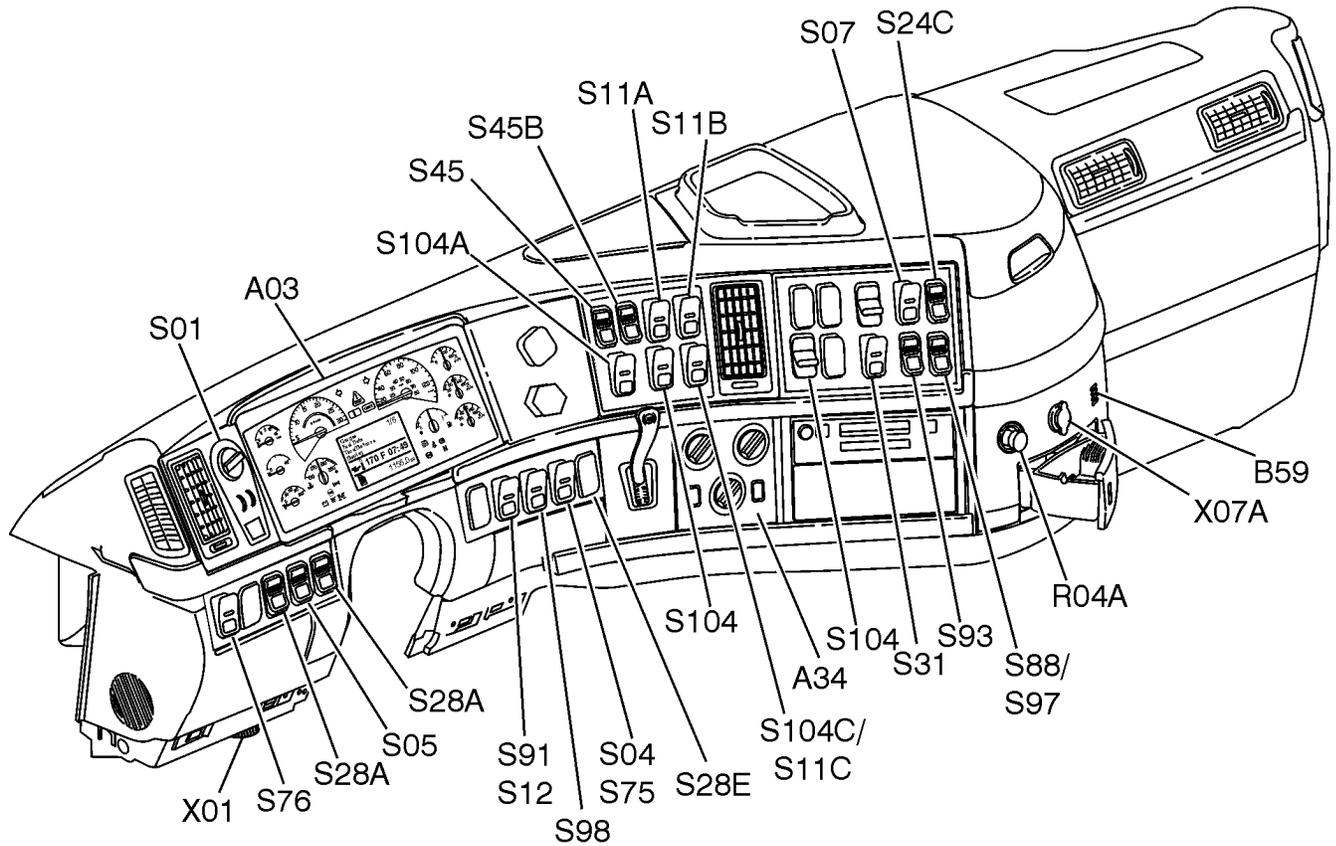
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Dash Switches, VN



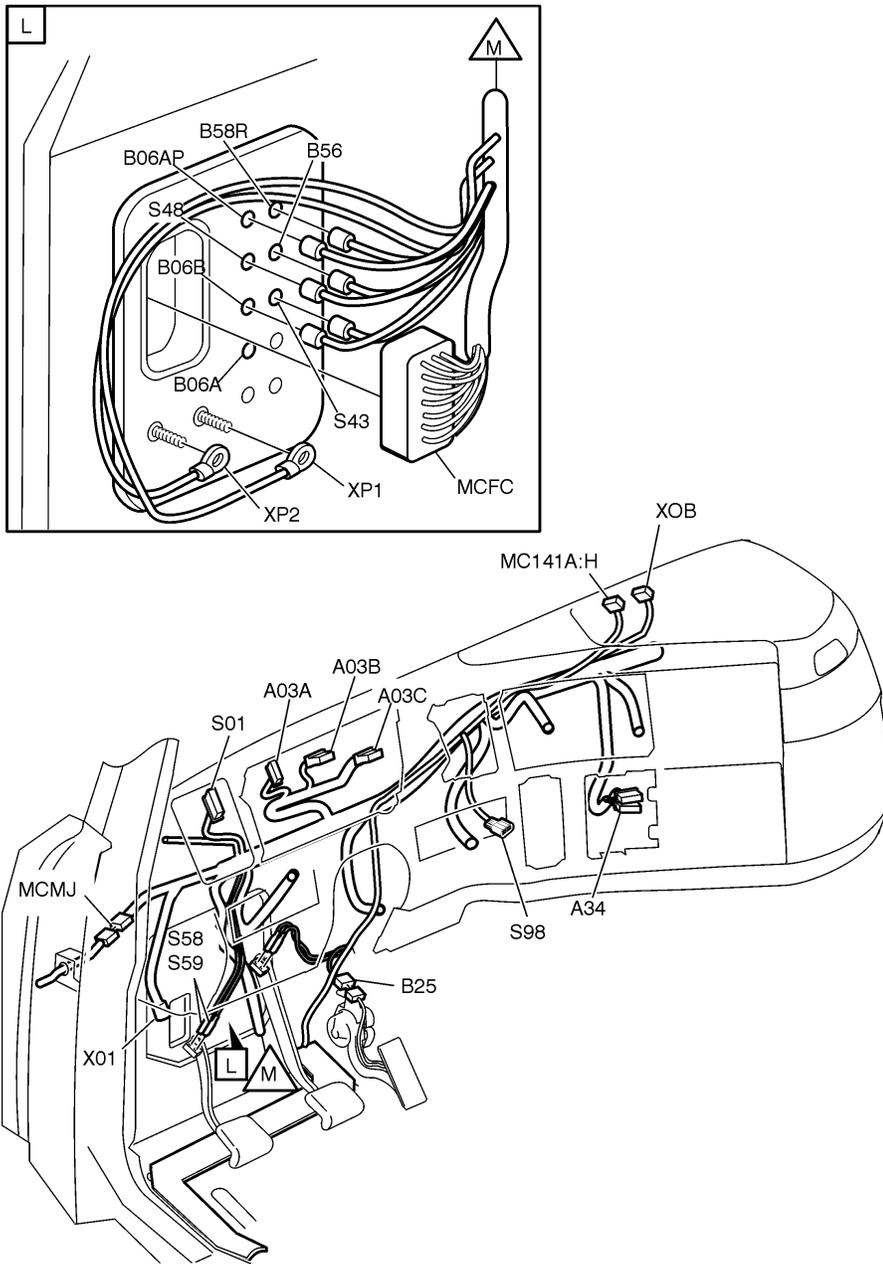
W3005942

Dash Switches, VHD



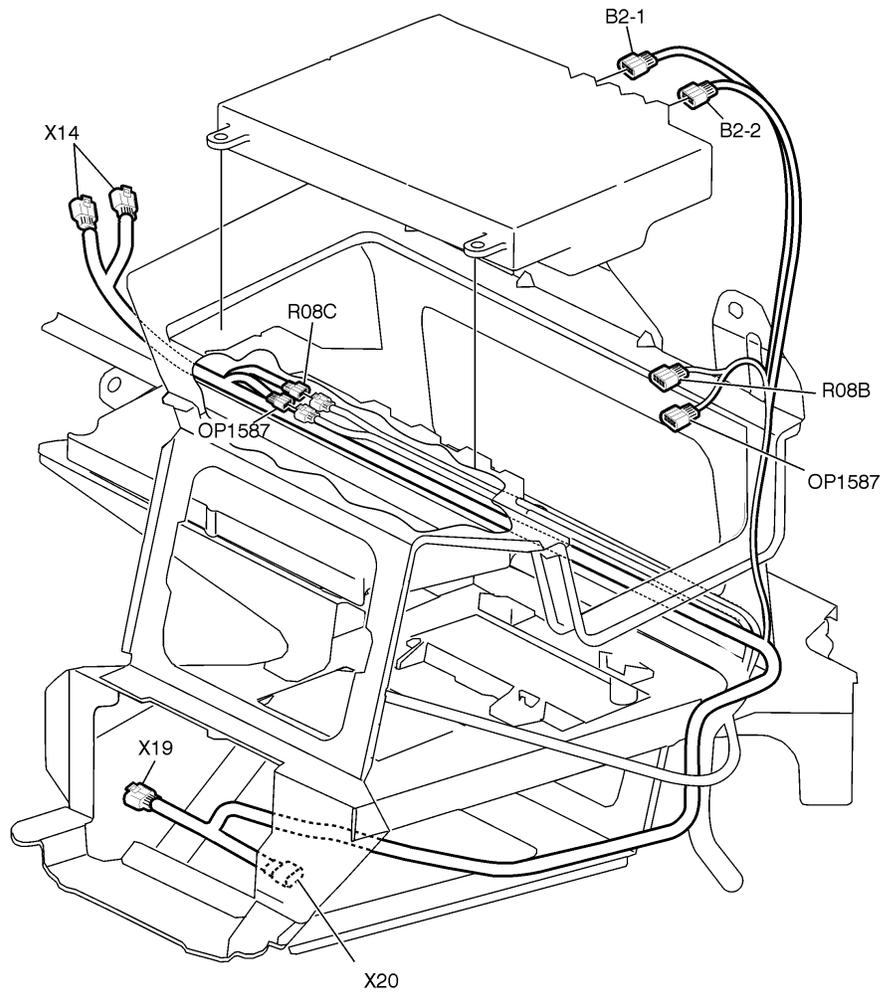
W3006514

Dash Harness and Cab Wiring Passthrough



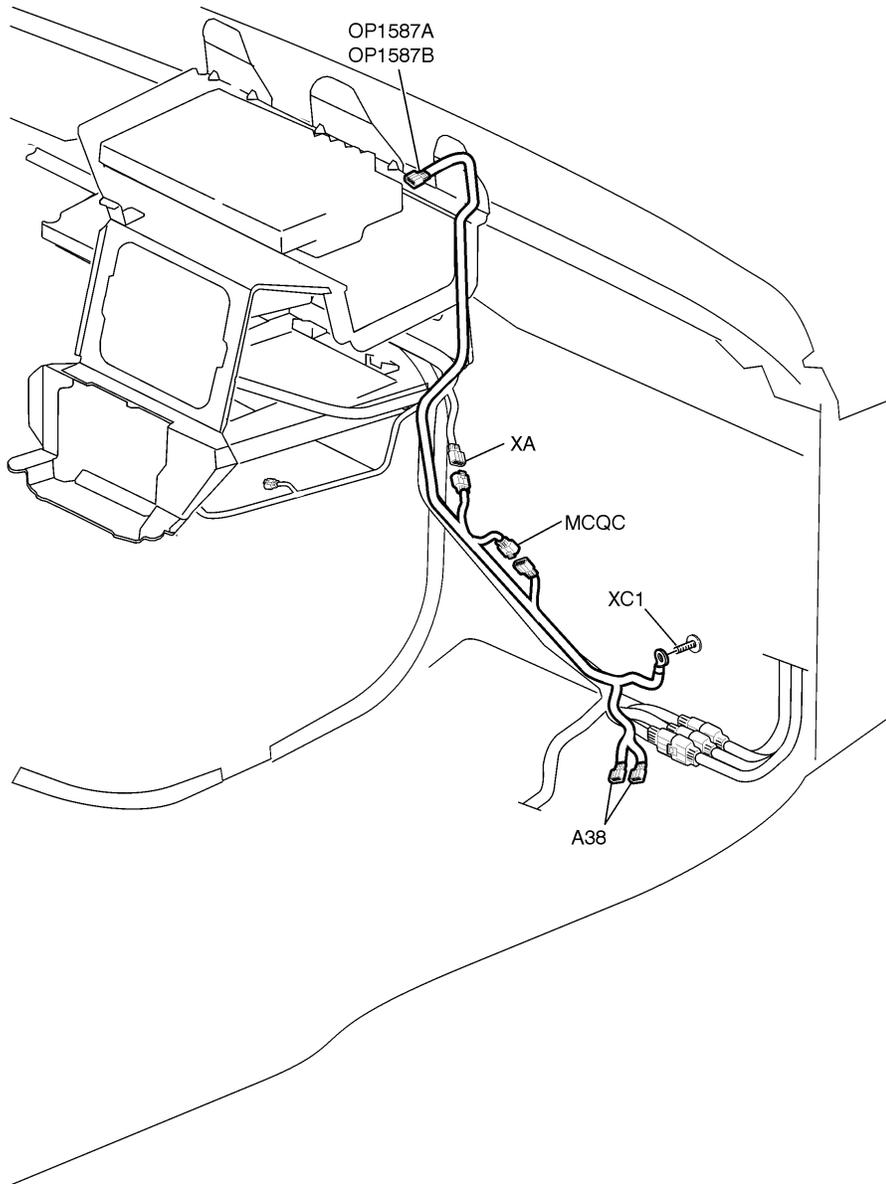
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Dash Harness, Road Relay



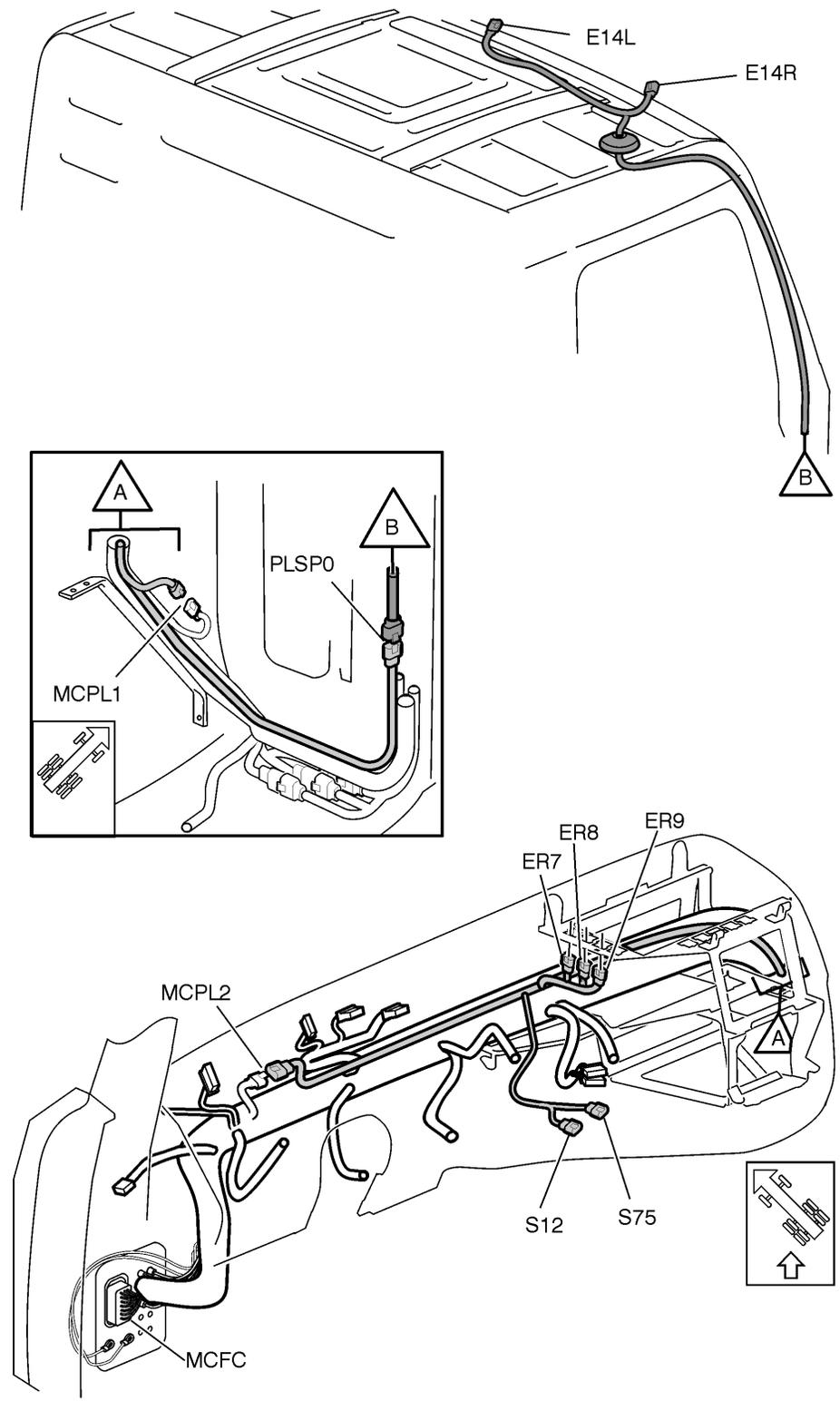
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Dash Harness, Qualcomm



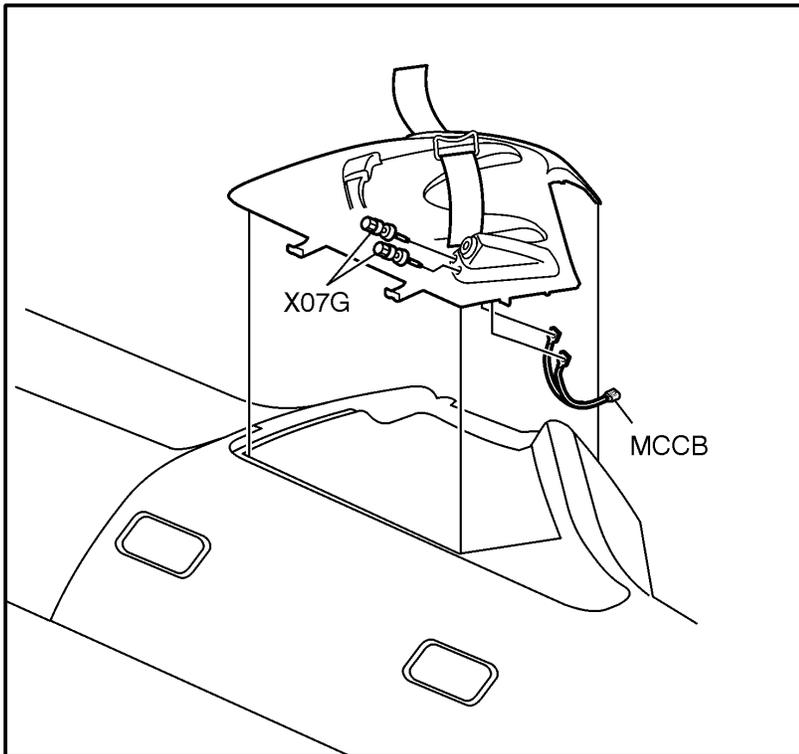
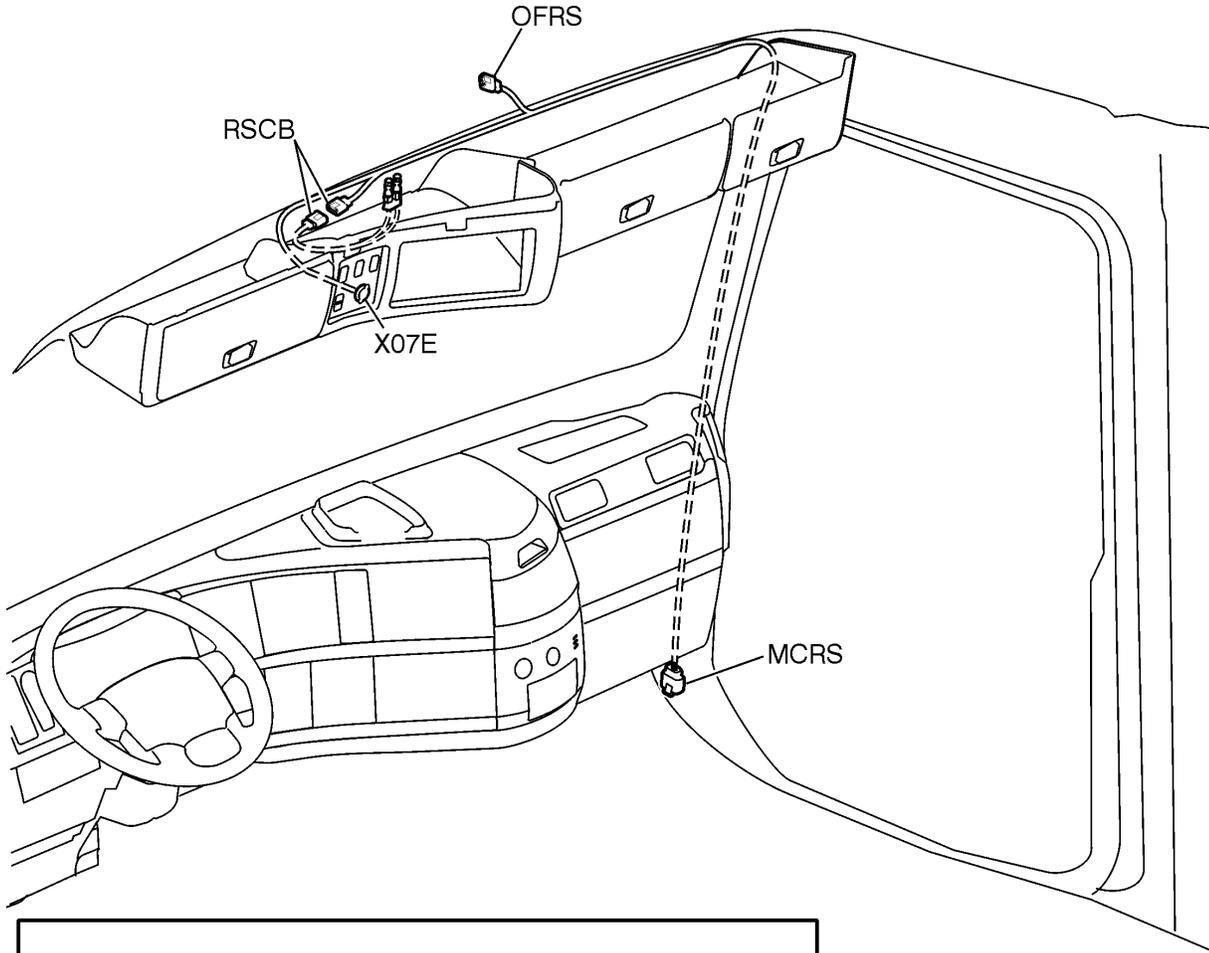
W3005948

Dash Harness, Snow Plow/ Beacon Lights Option



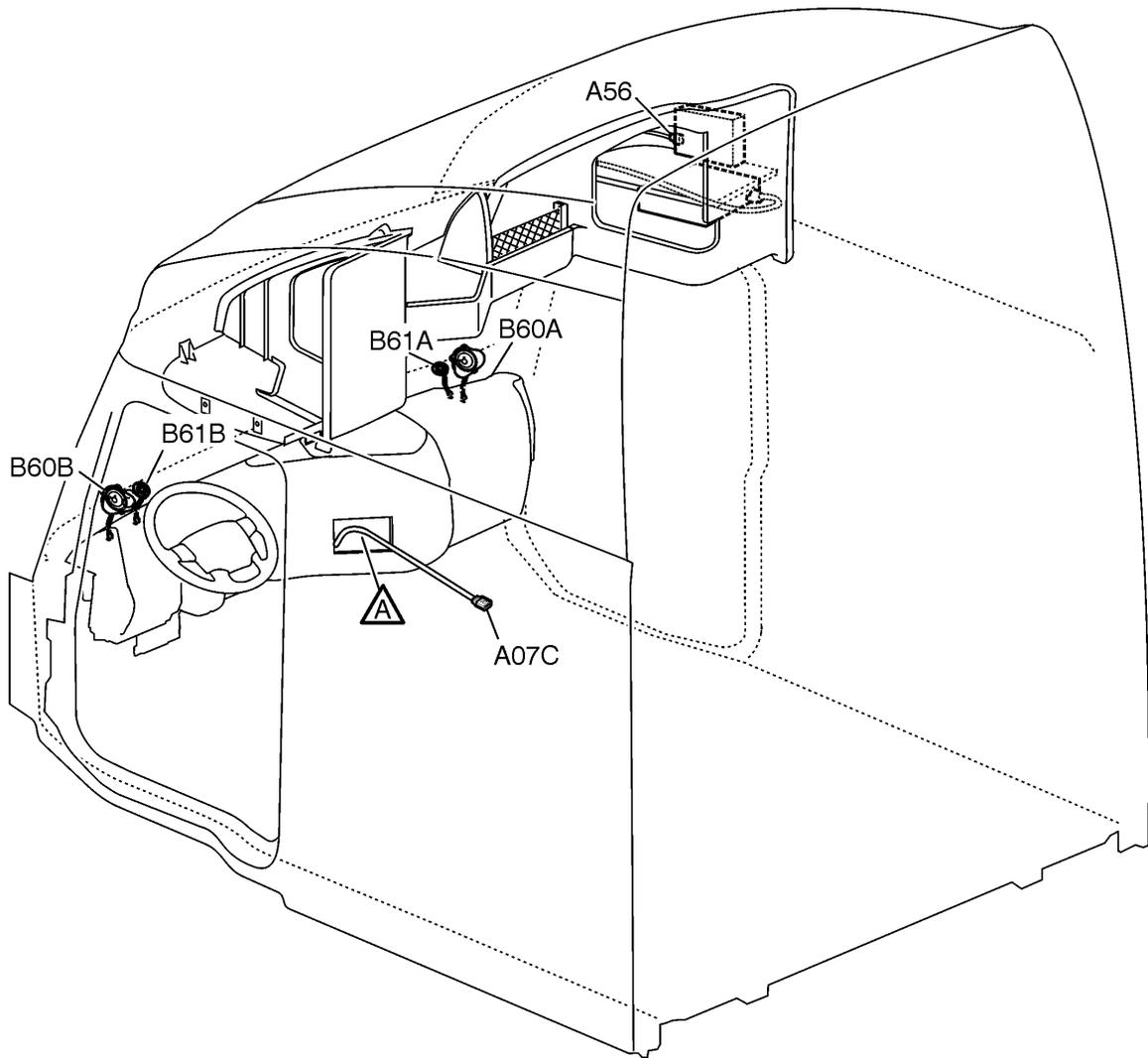
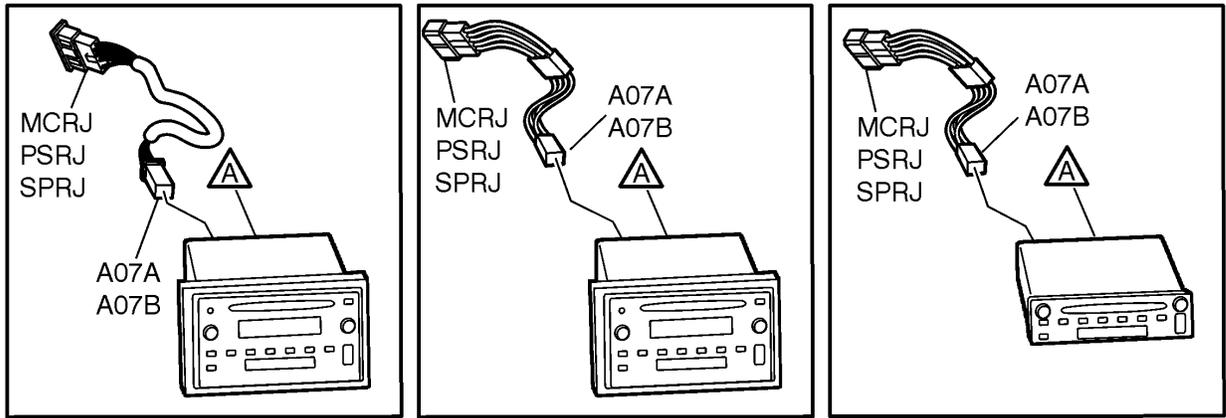
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Front Overhead Shelf/CB Power Harness

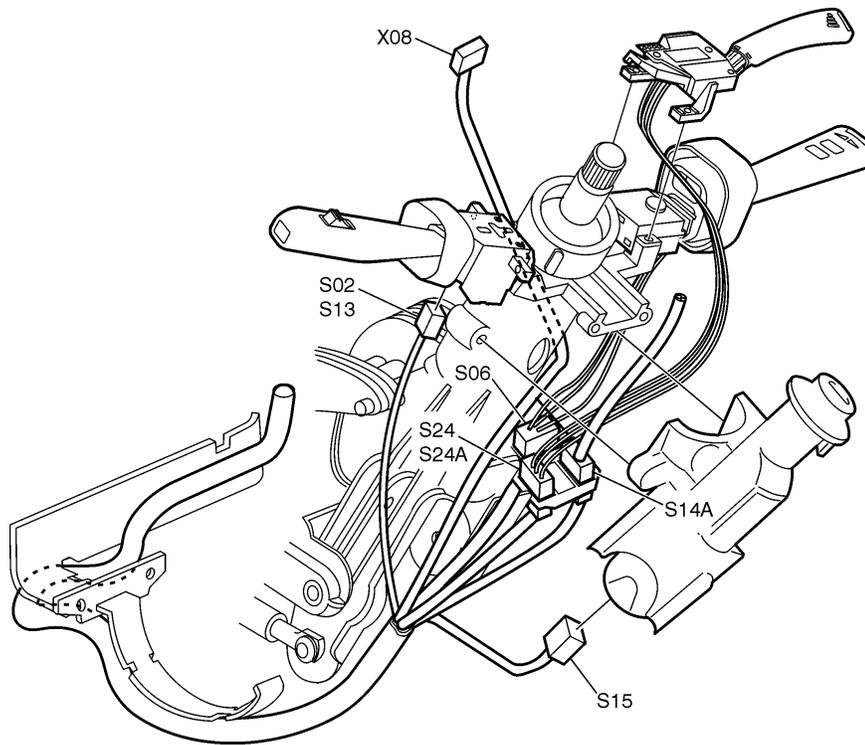


W3005899

Radio Harness

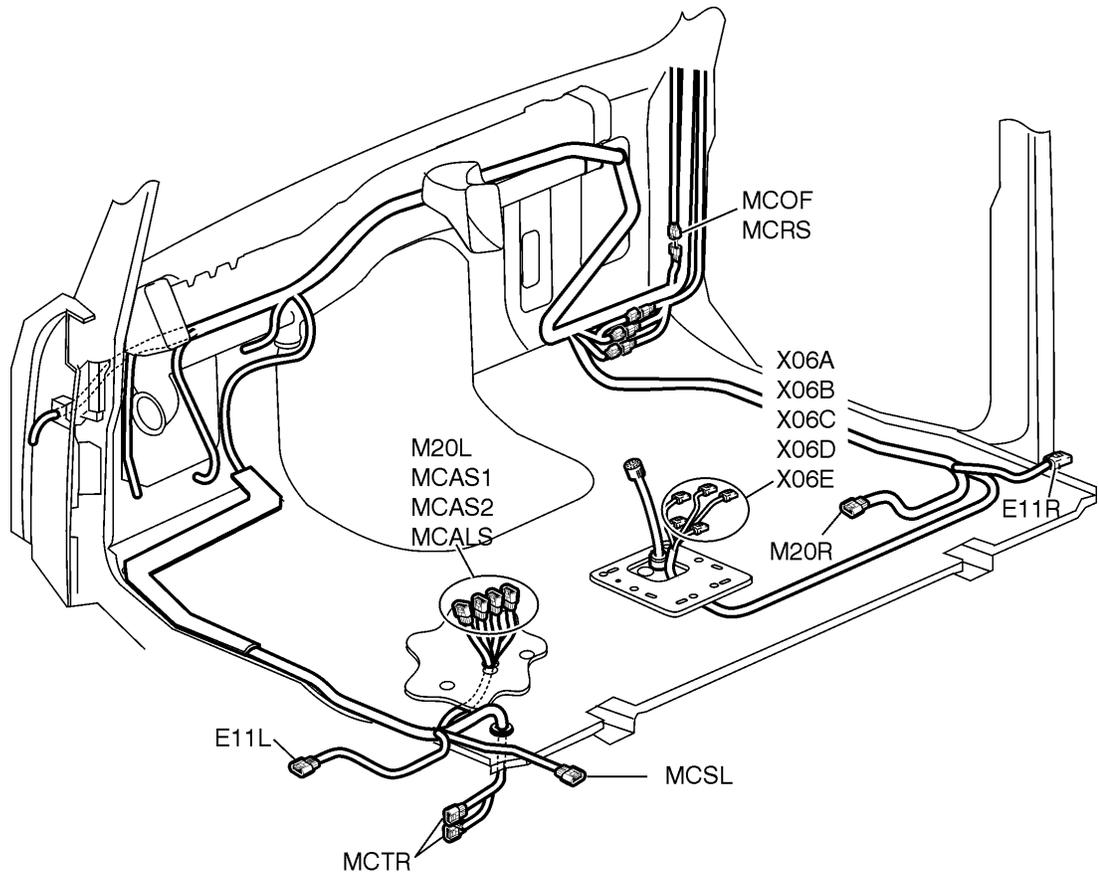


Steering Column Harness, Including Stalk Switches



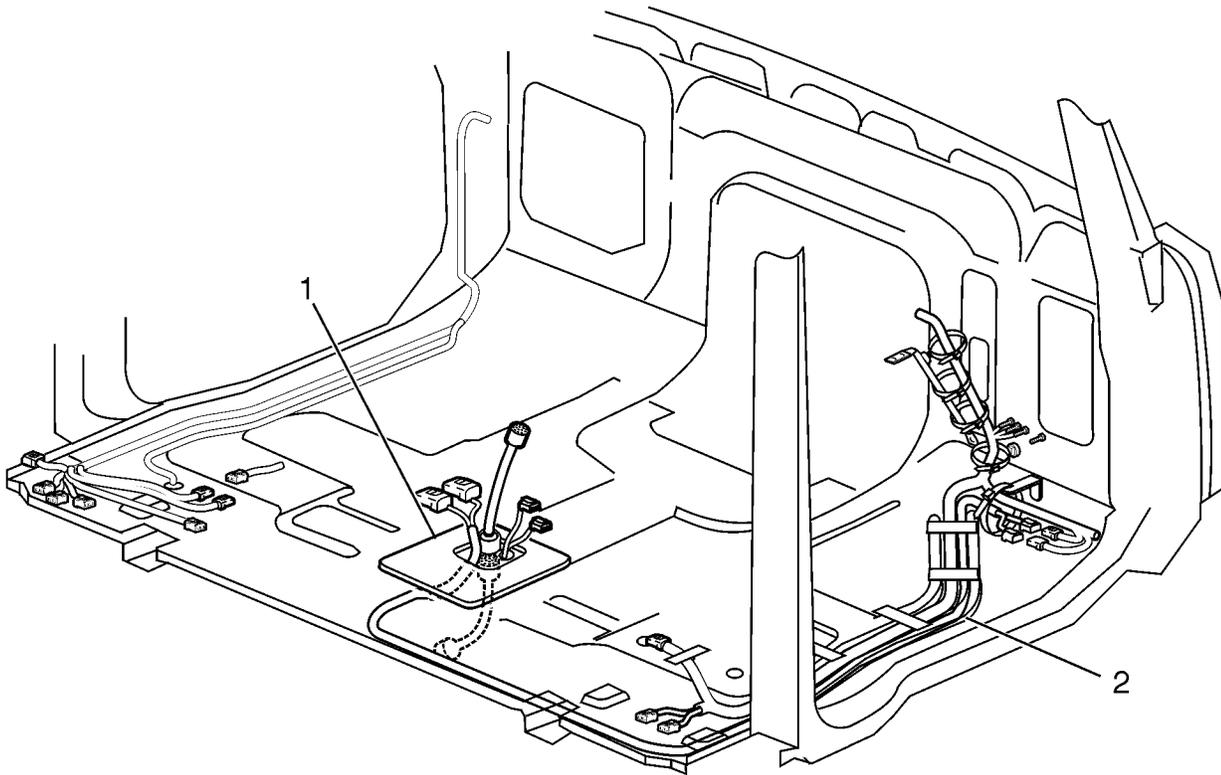
W3005949

Cab Floor Harnesses, Front



W3005950

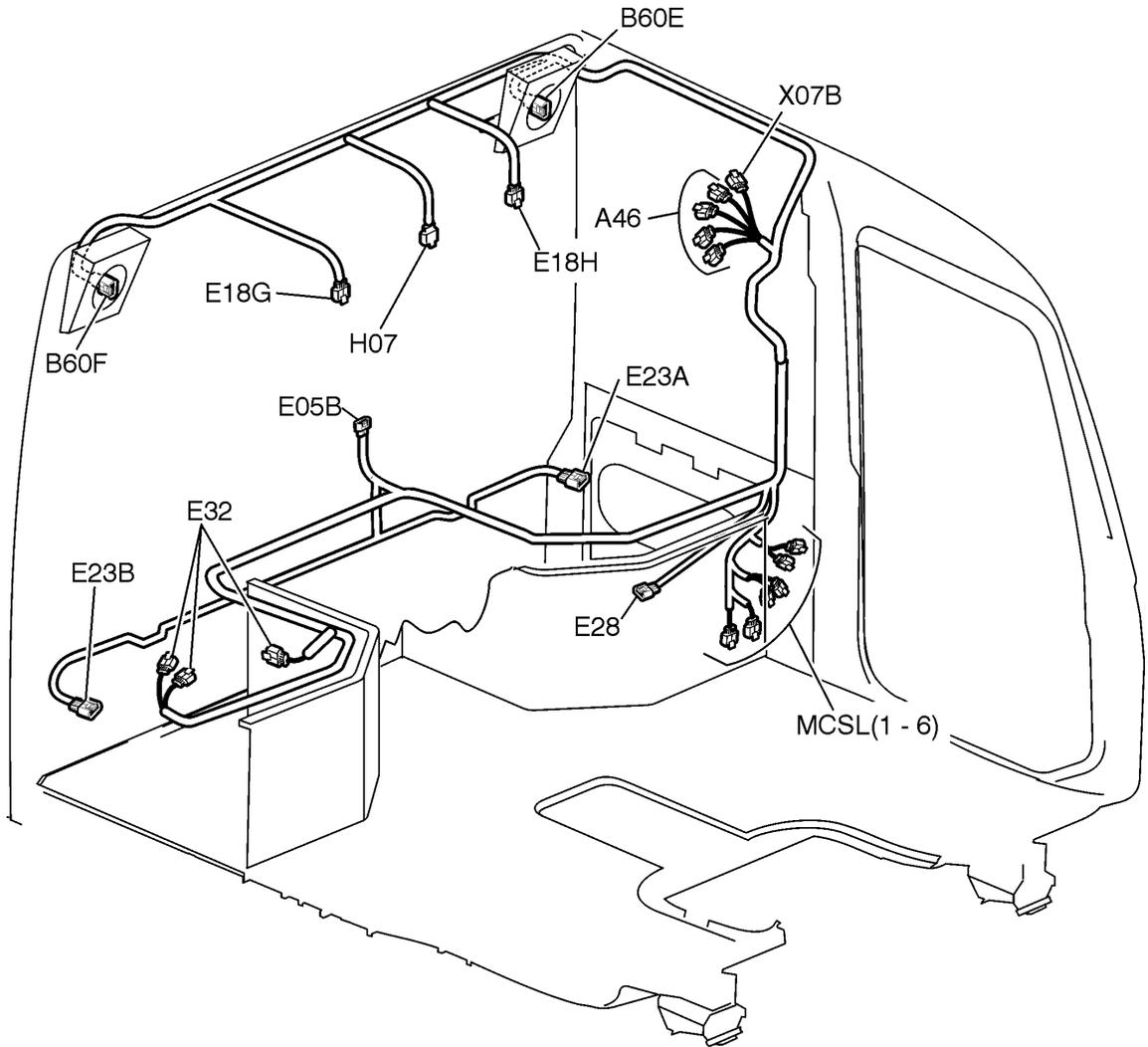
Cab Floor Harness, Bodybuilder Option (VHD)



- 1 Bodybuilder Cab Floor Passthrough Harness
- 2 Bodybuilder Overlay Harness (either 2 or 4 connectors on each side)

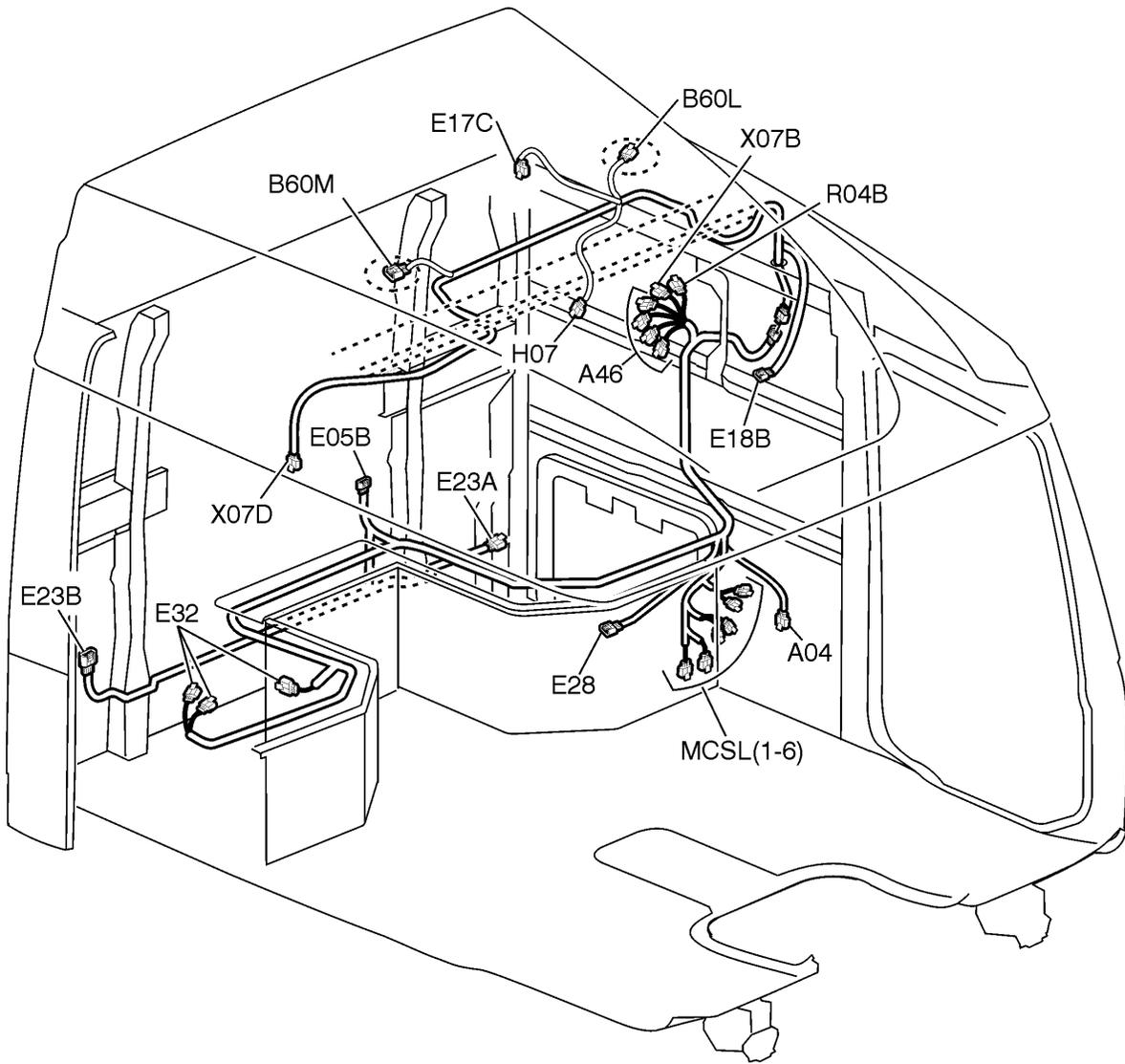
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Rear Cab Harness, VN430



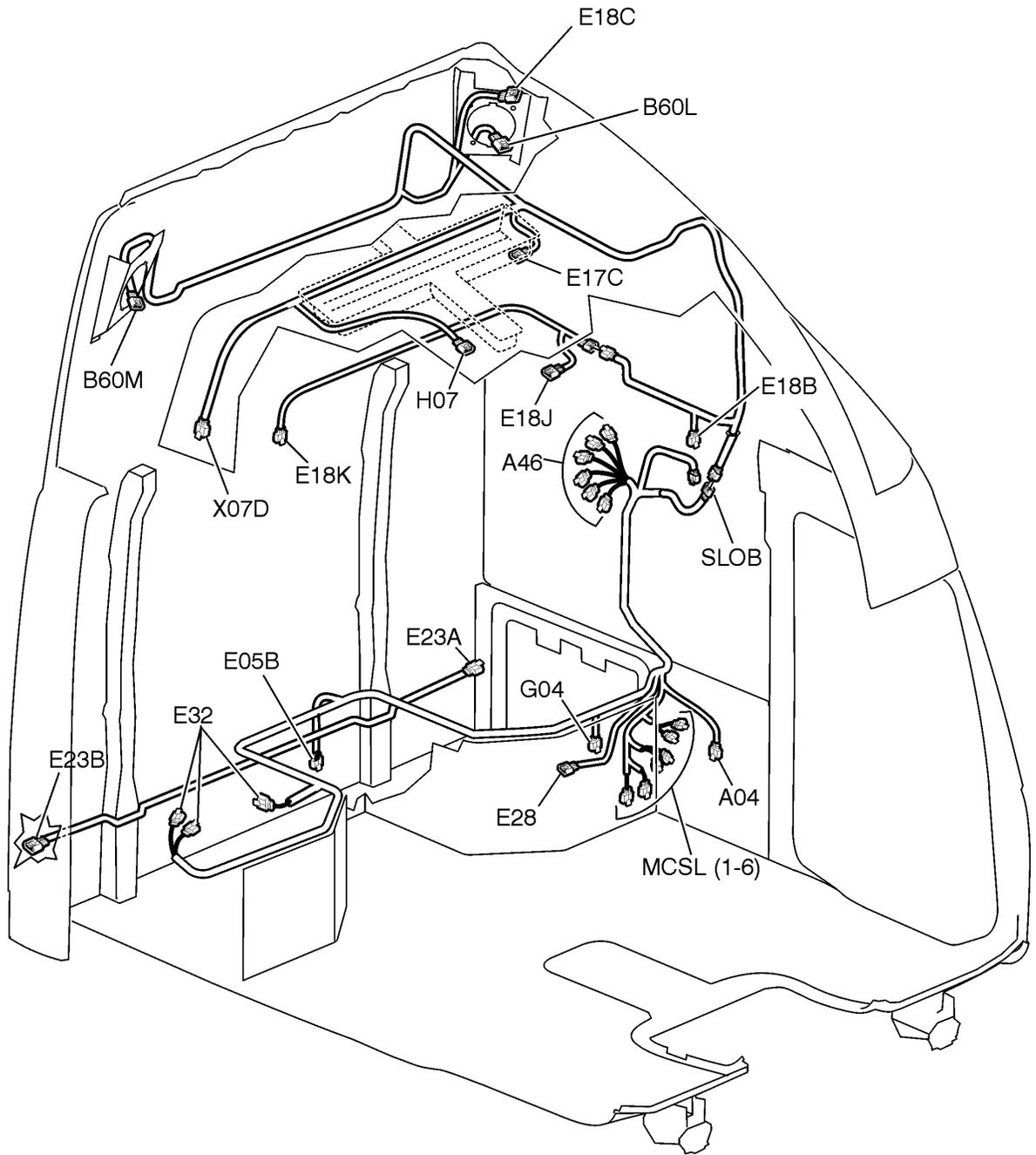
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Rear Cab Harness, VN630



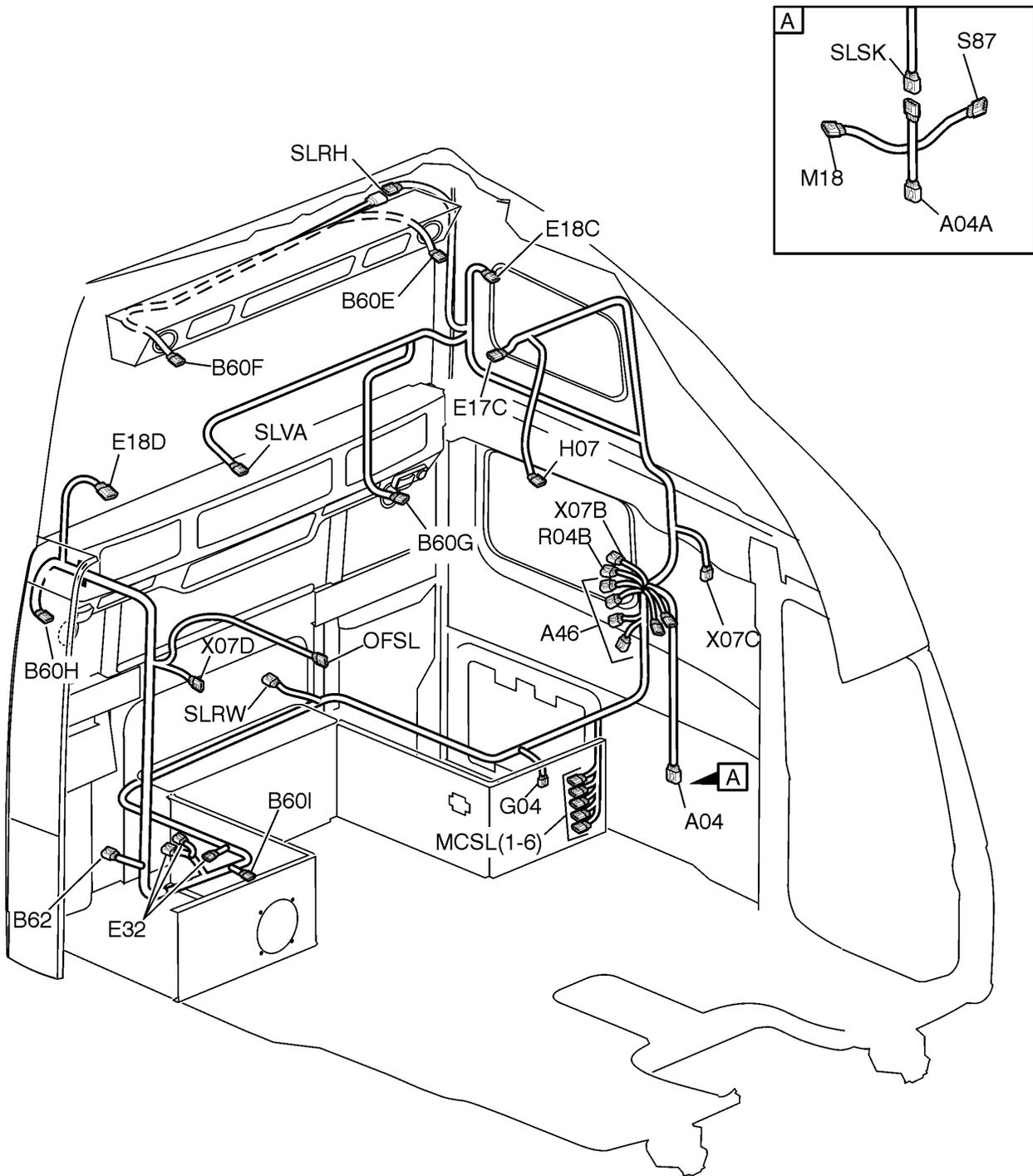
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Rear Cab Harness, VN670



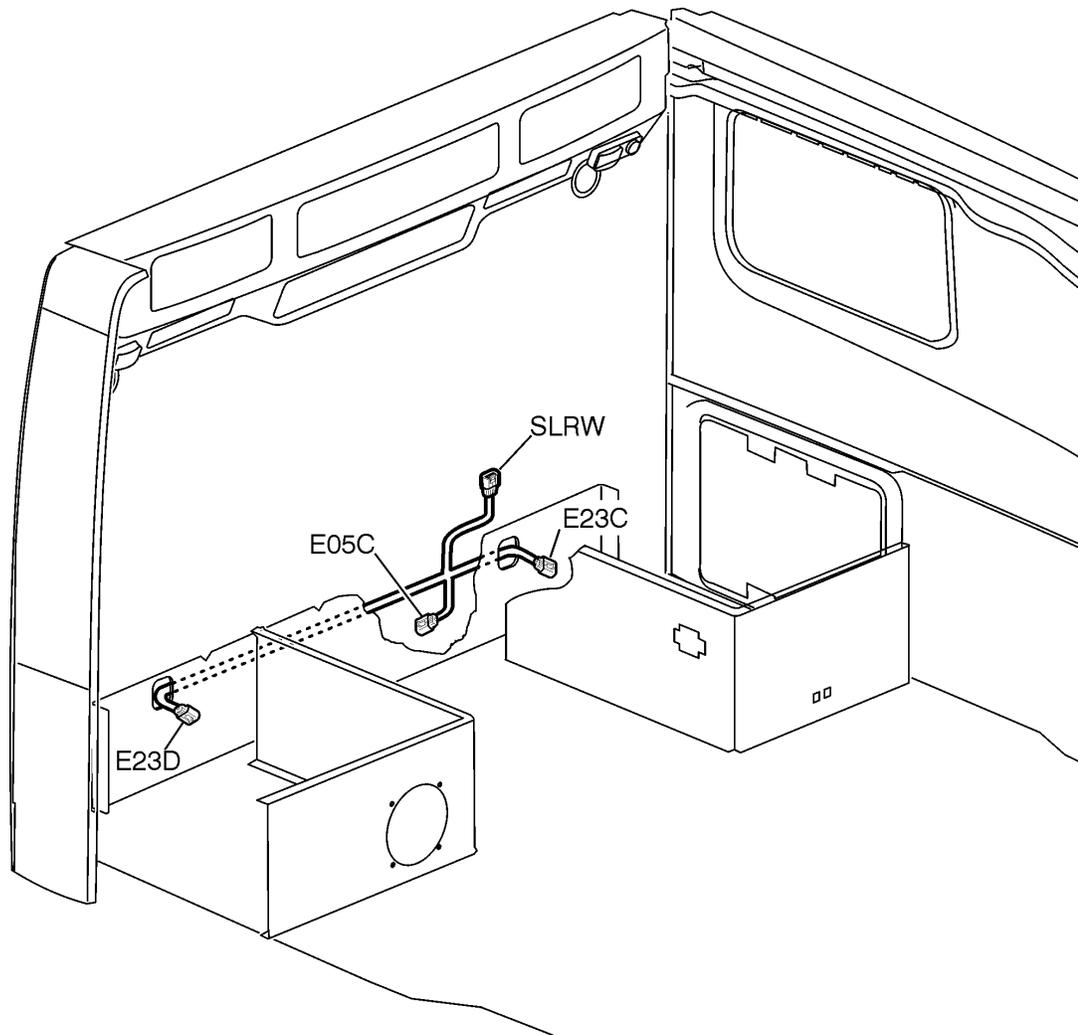
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Rear Cab Harness, VN780



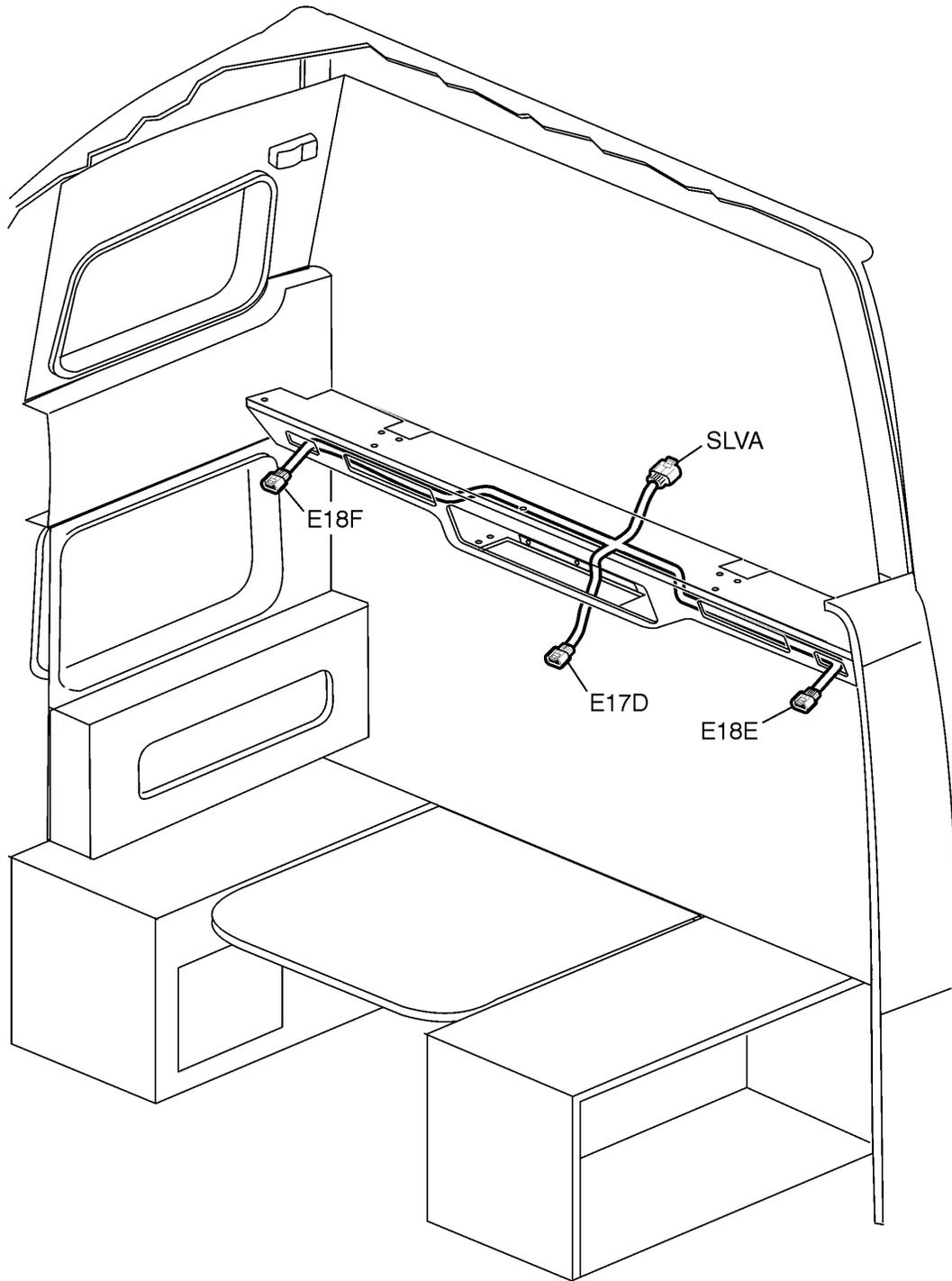
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Rear Cab, Lower Wall Harness, VN780



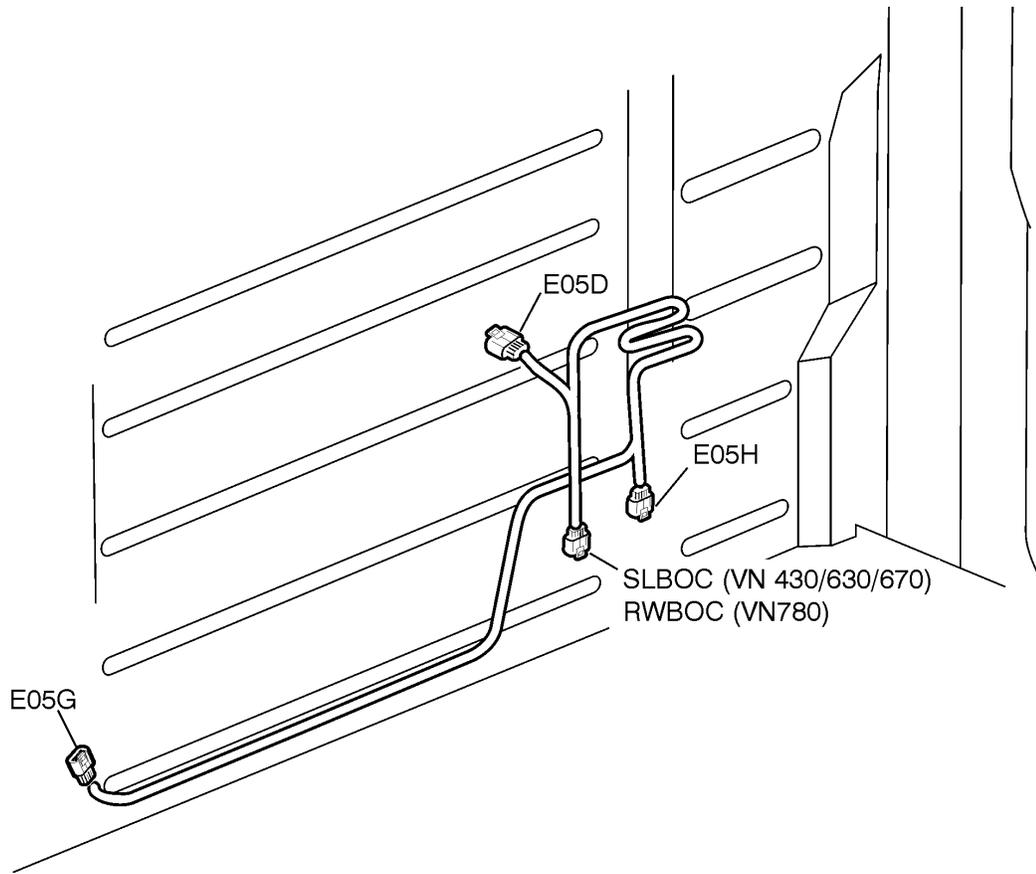
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Rear Cab Valance Harness, VN780



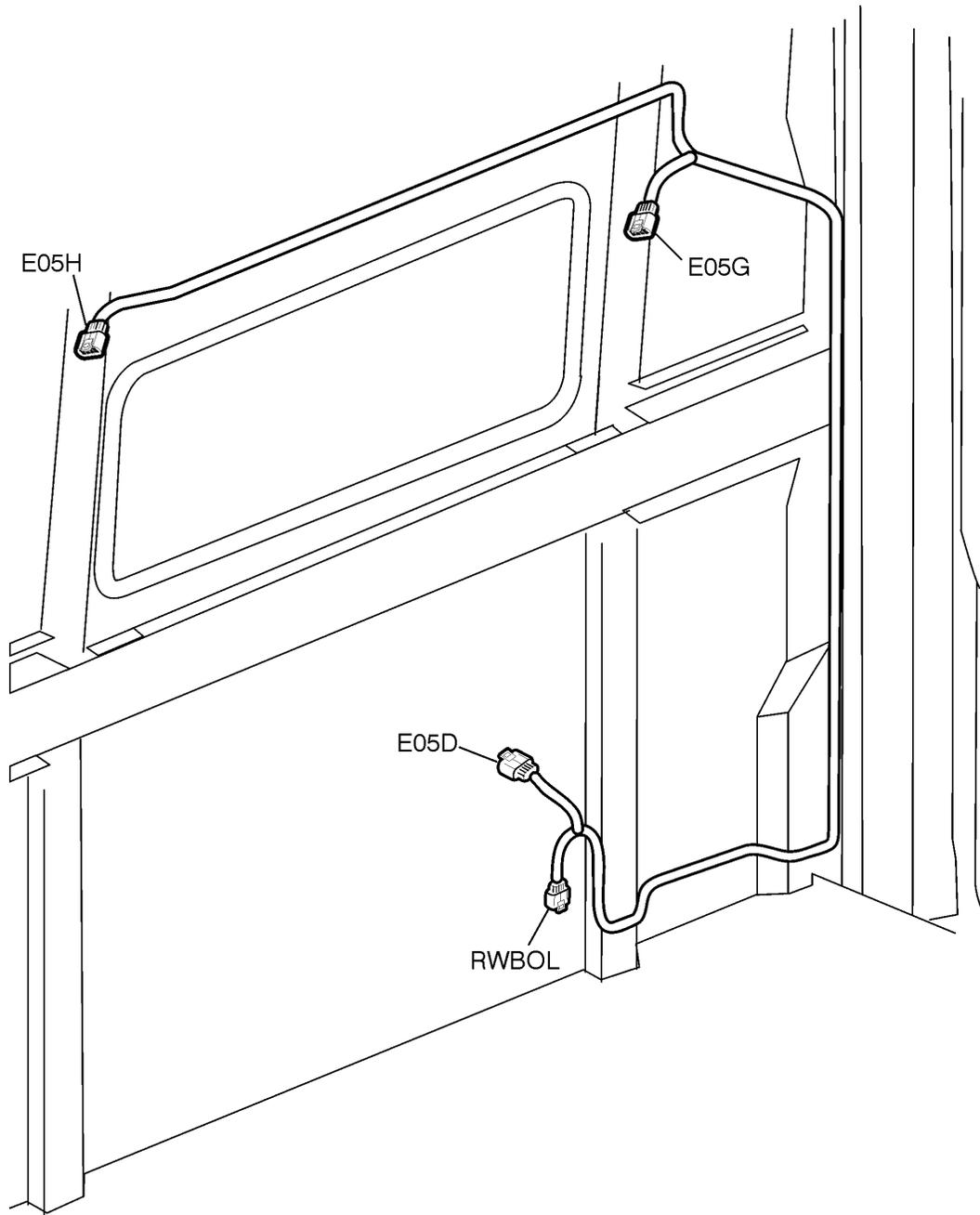
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Rear Cab Harness, Back of Cab Lights (HDI/HDO Variant)



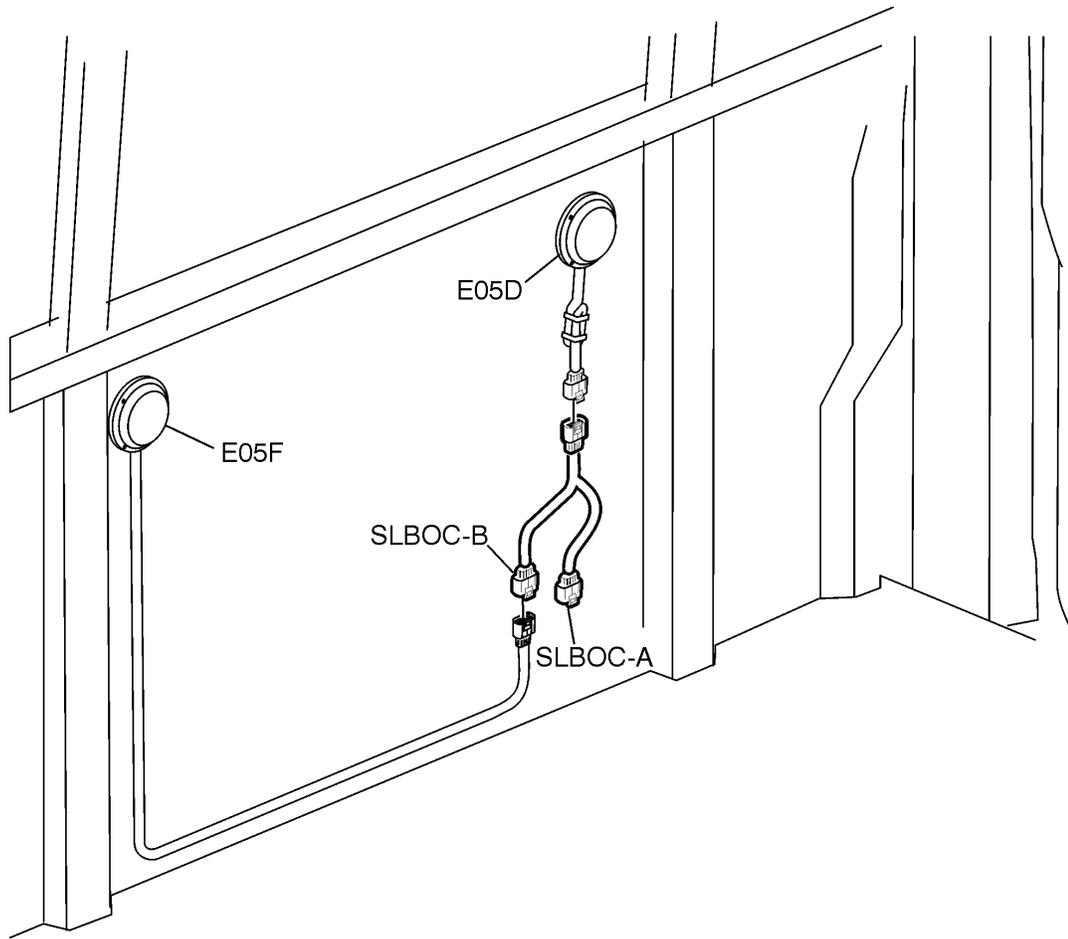
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Rear Cab Harness, Back of Cab Lights (LDI/LDO Variant)



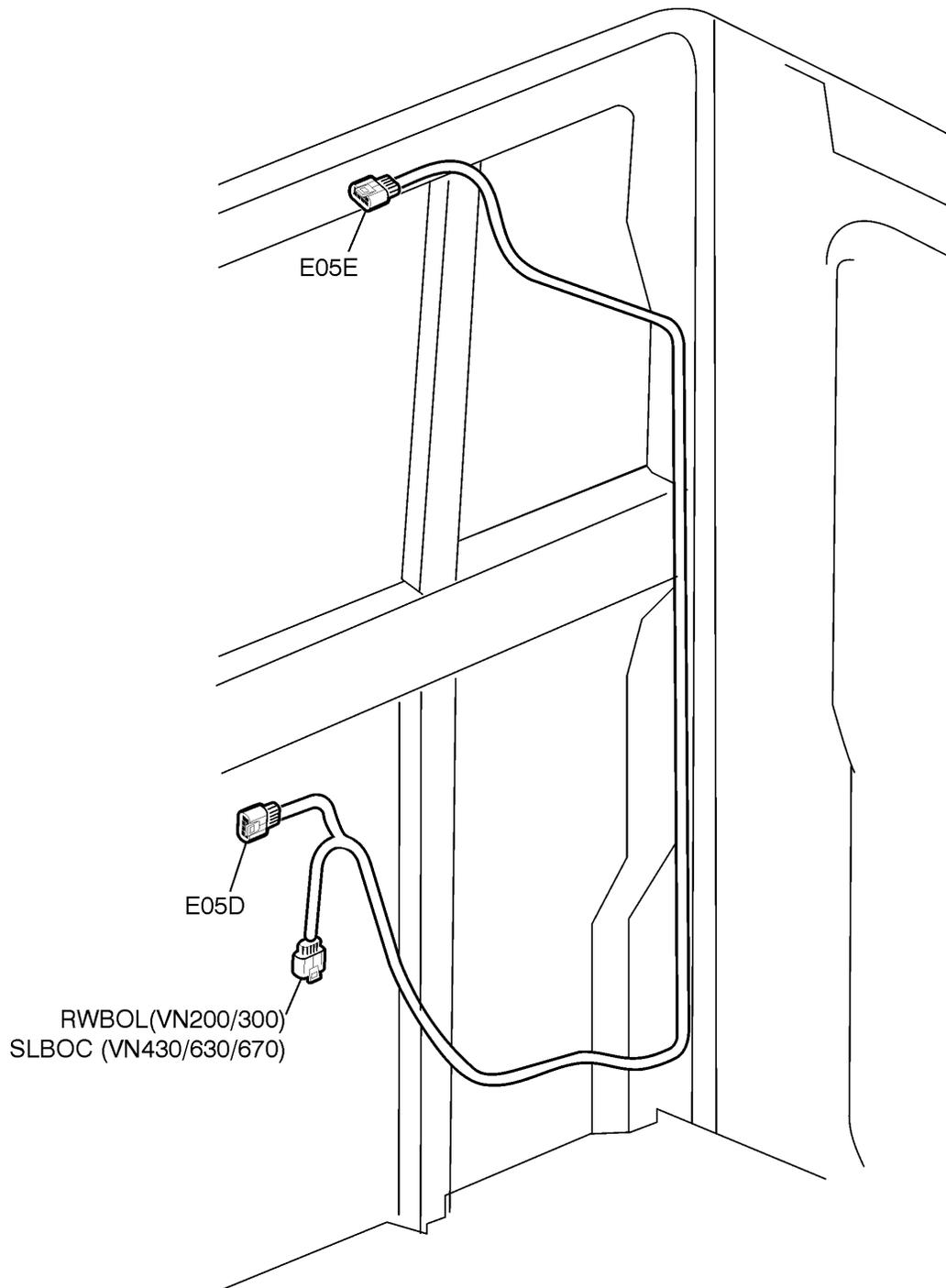
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Rear Cab Harness, Fifth Wheel Light



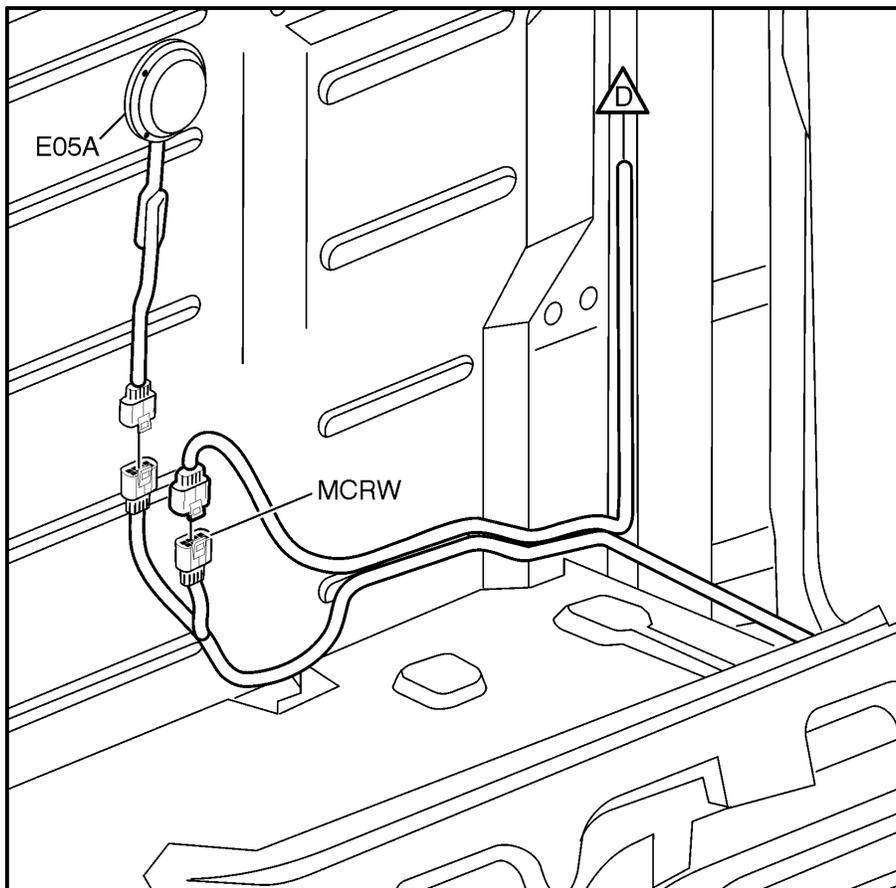
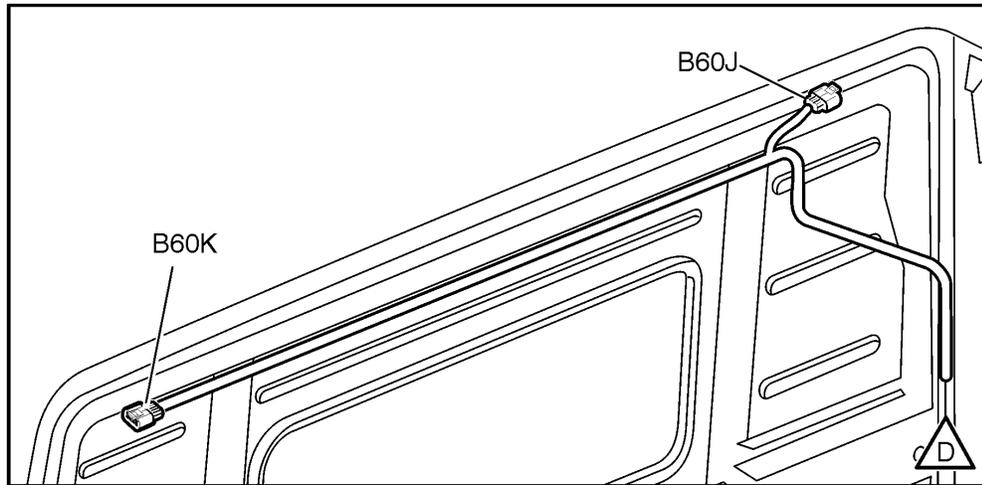
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Rear Cab Harness, Fifth Wheel Light



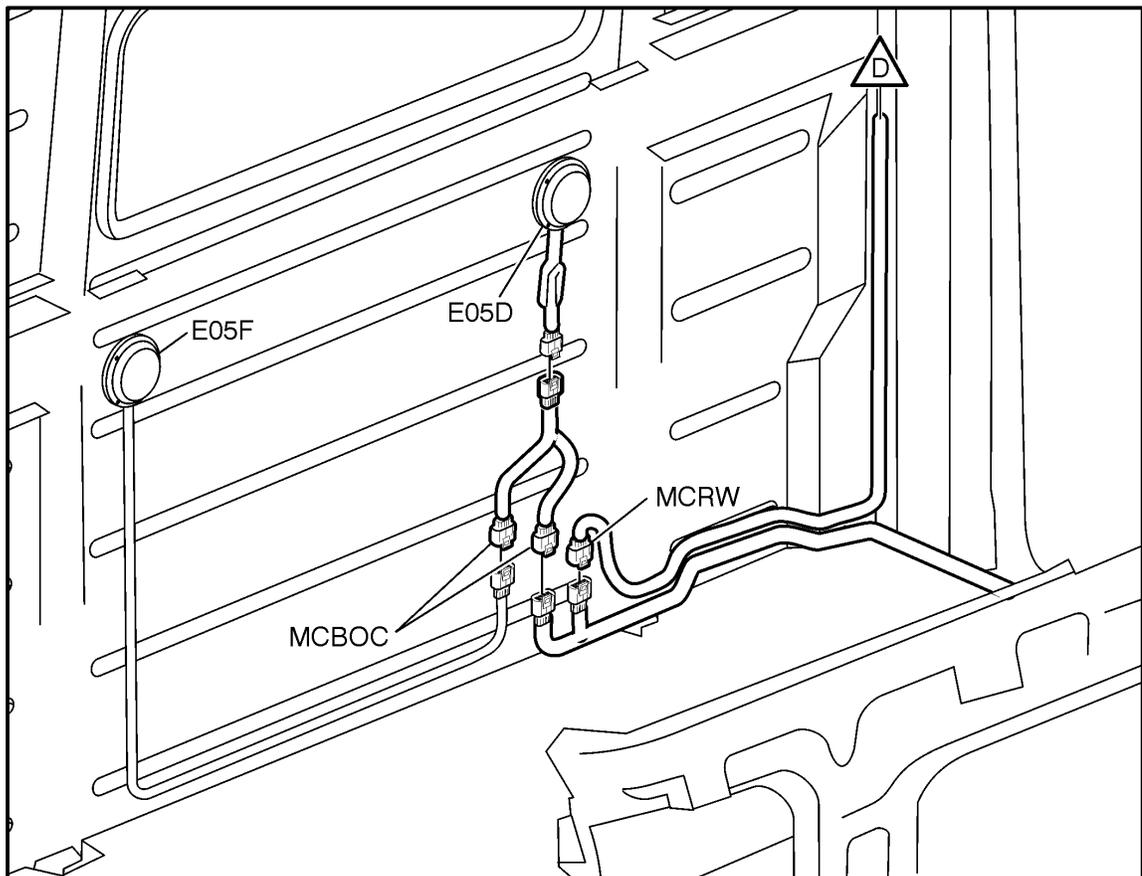
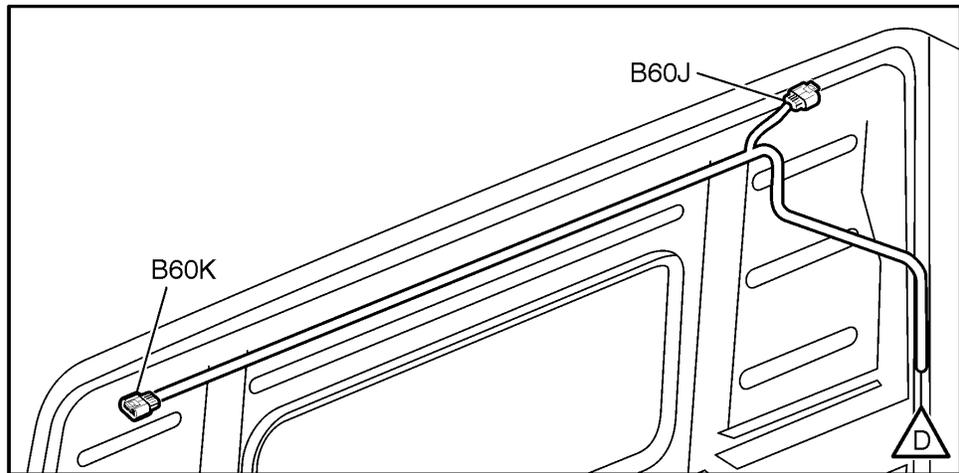
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Rear Cab Harness, Fifth Wheel Light and Rear Speakers (Daycab)



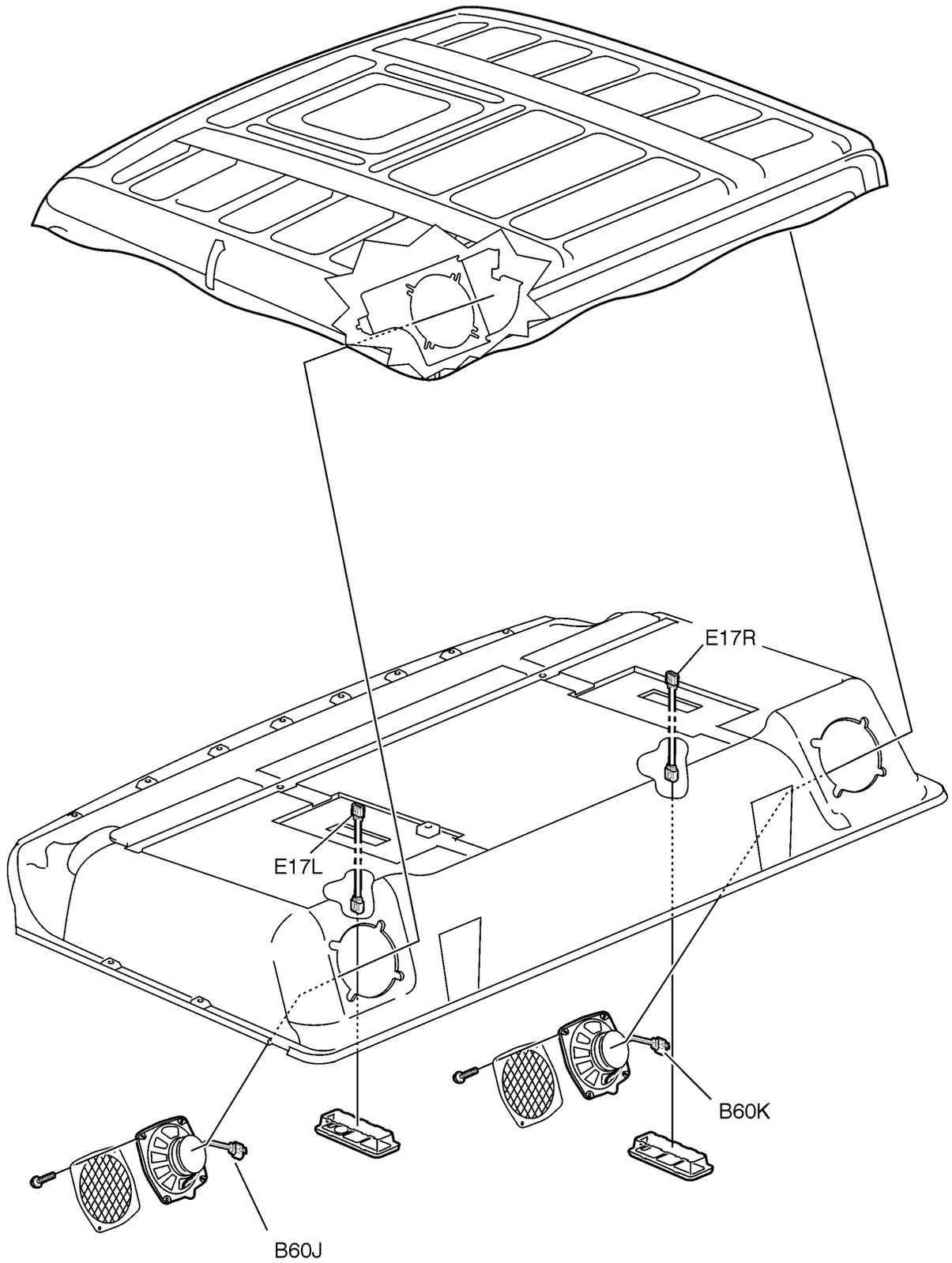
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Rear Cab Harness, Dual Fifth Wheel Light and Rear Speakers (Daycab)

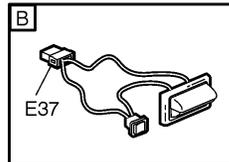
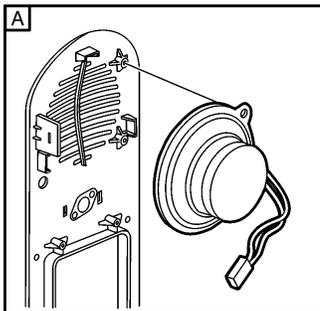
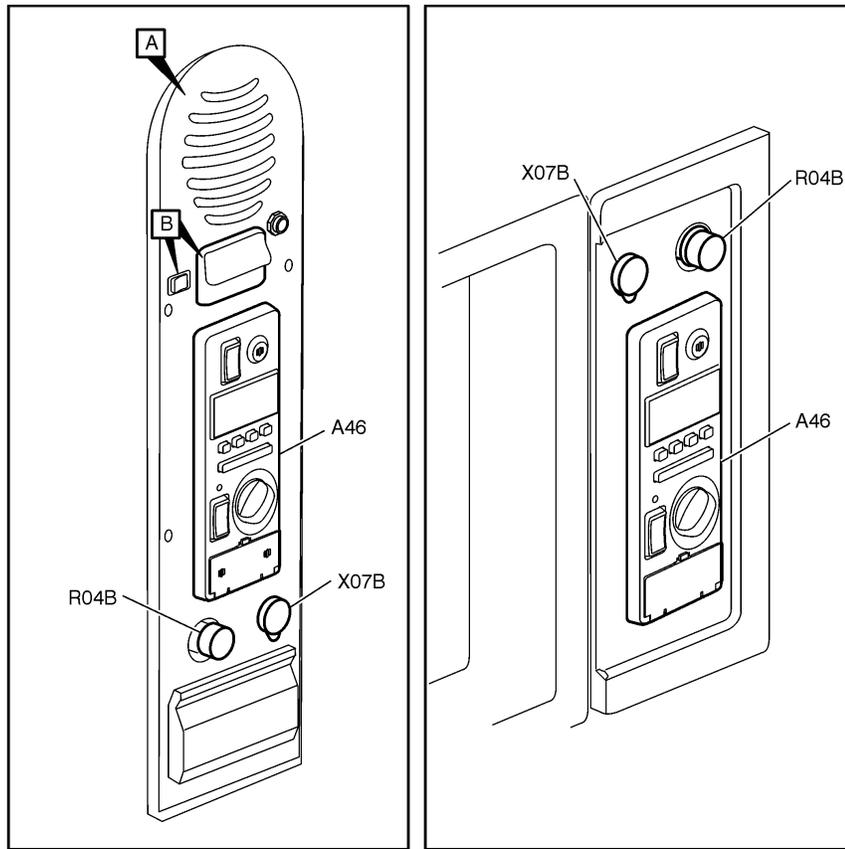


W3005897

Rear Cab Harness, Overhead Lights and Rear Speaker Detail



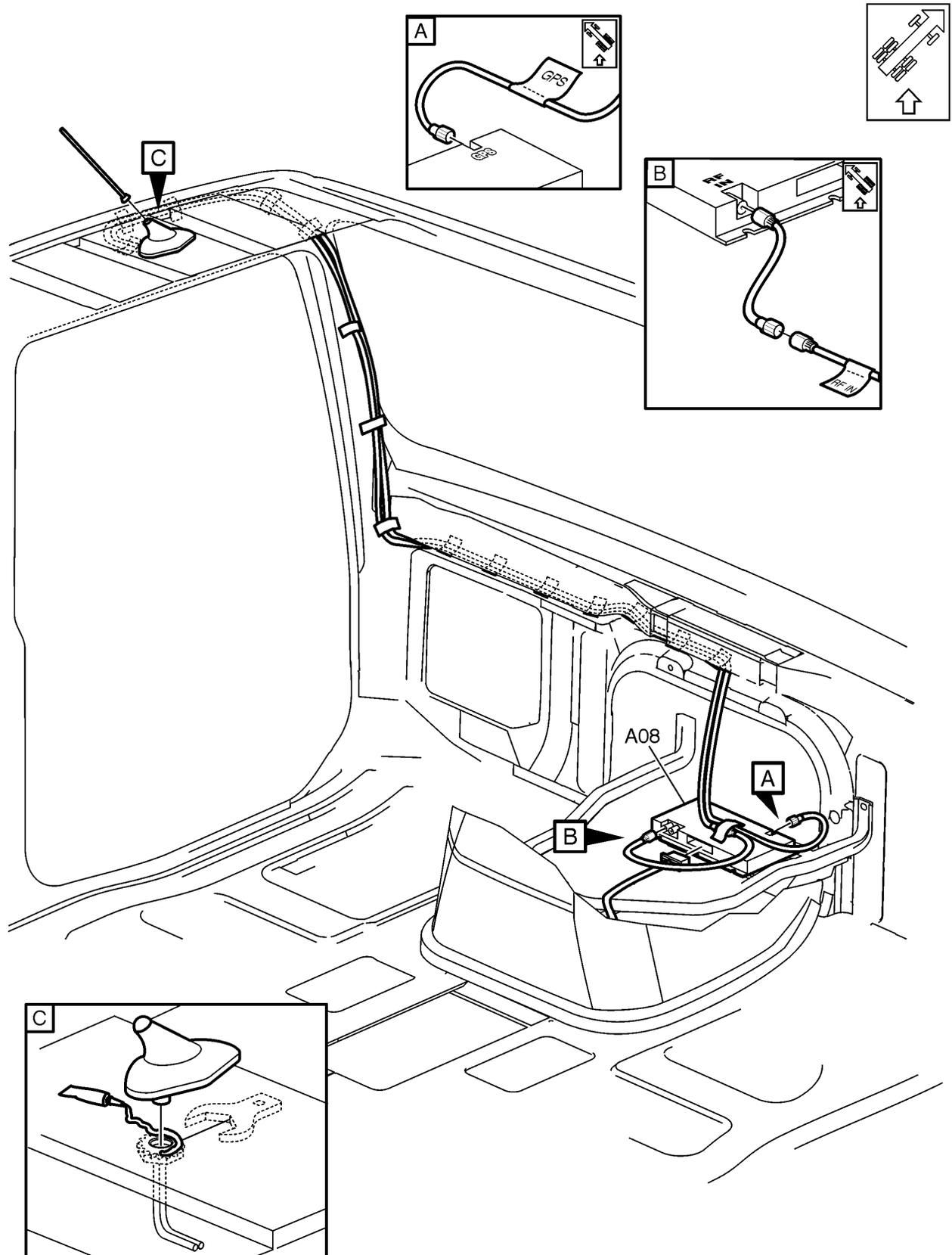
Sleeper Control Panel (LECM)



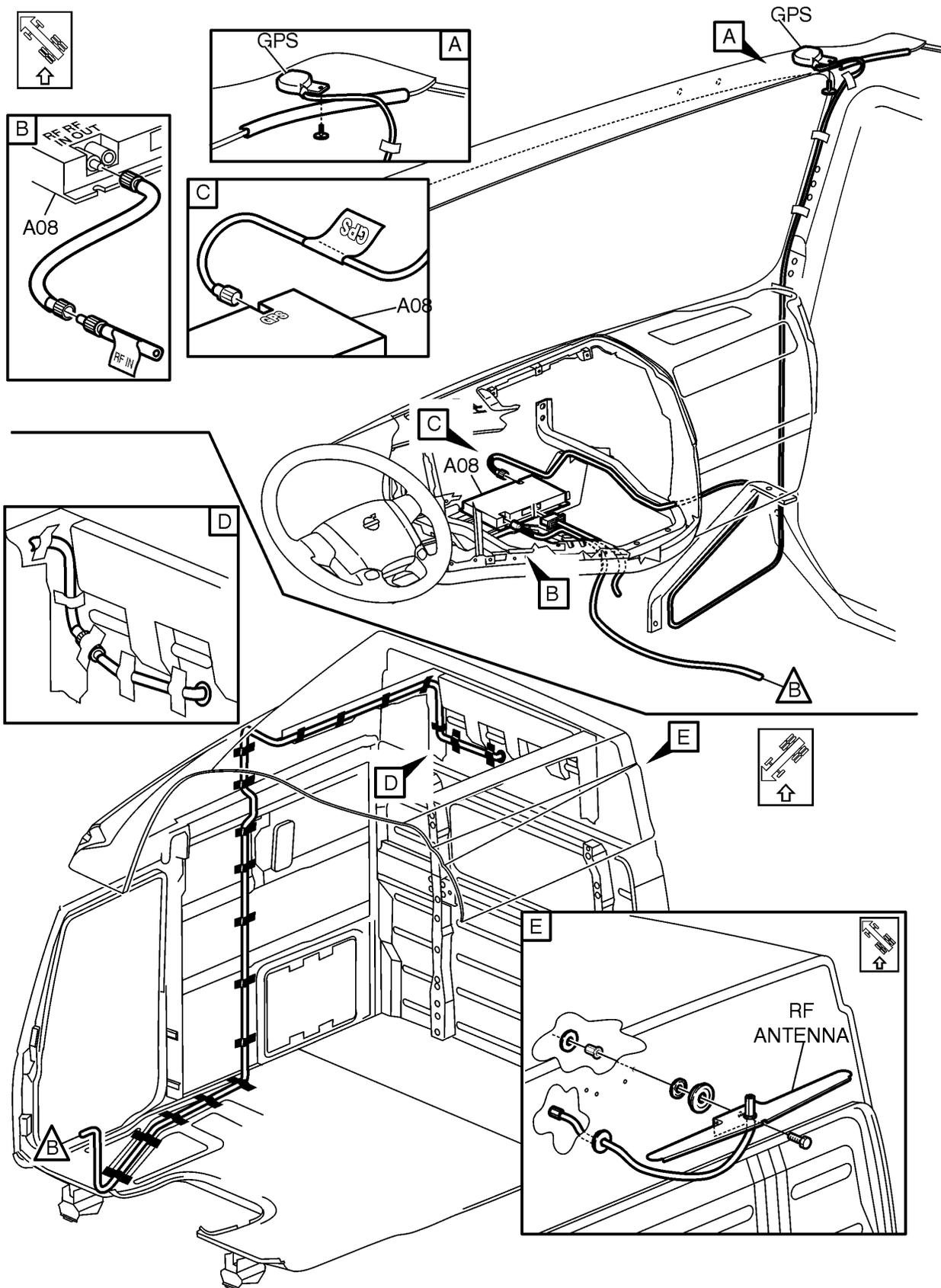
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Volvo Link Harness and Antennas

Volvo Link Harness and Antennas, Day Cab

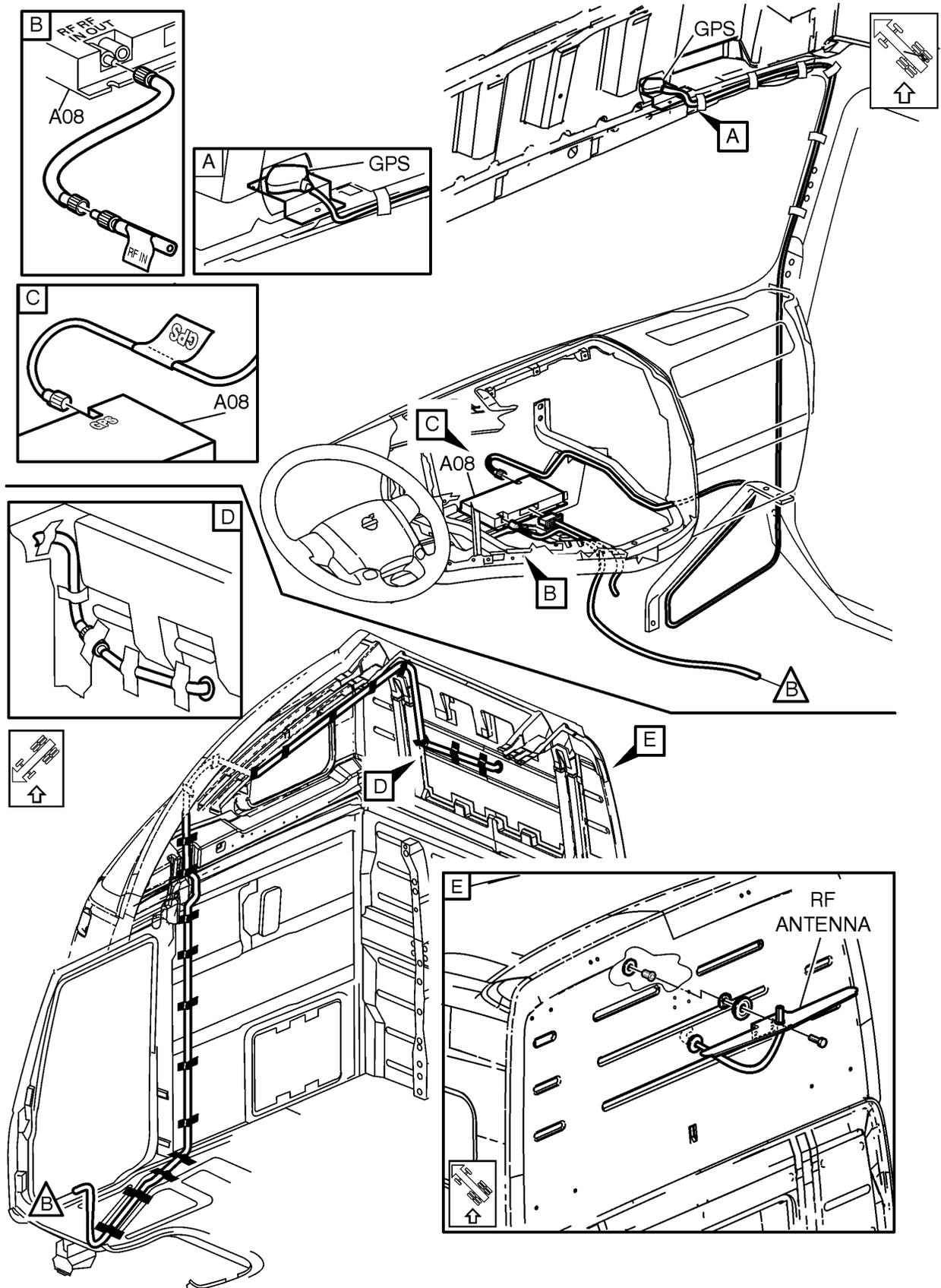


Volvo Link Harness and Antennas, 630 Sleeper Cab

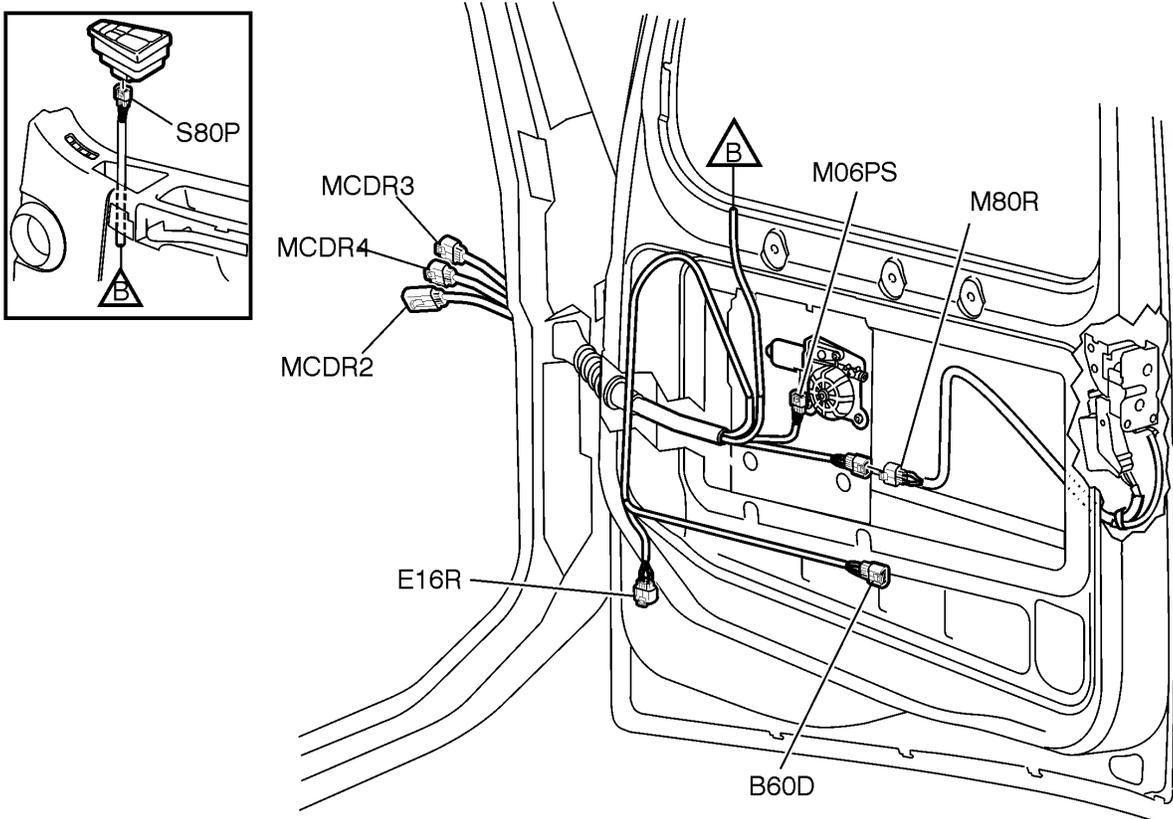
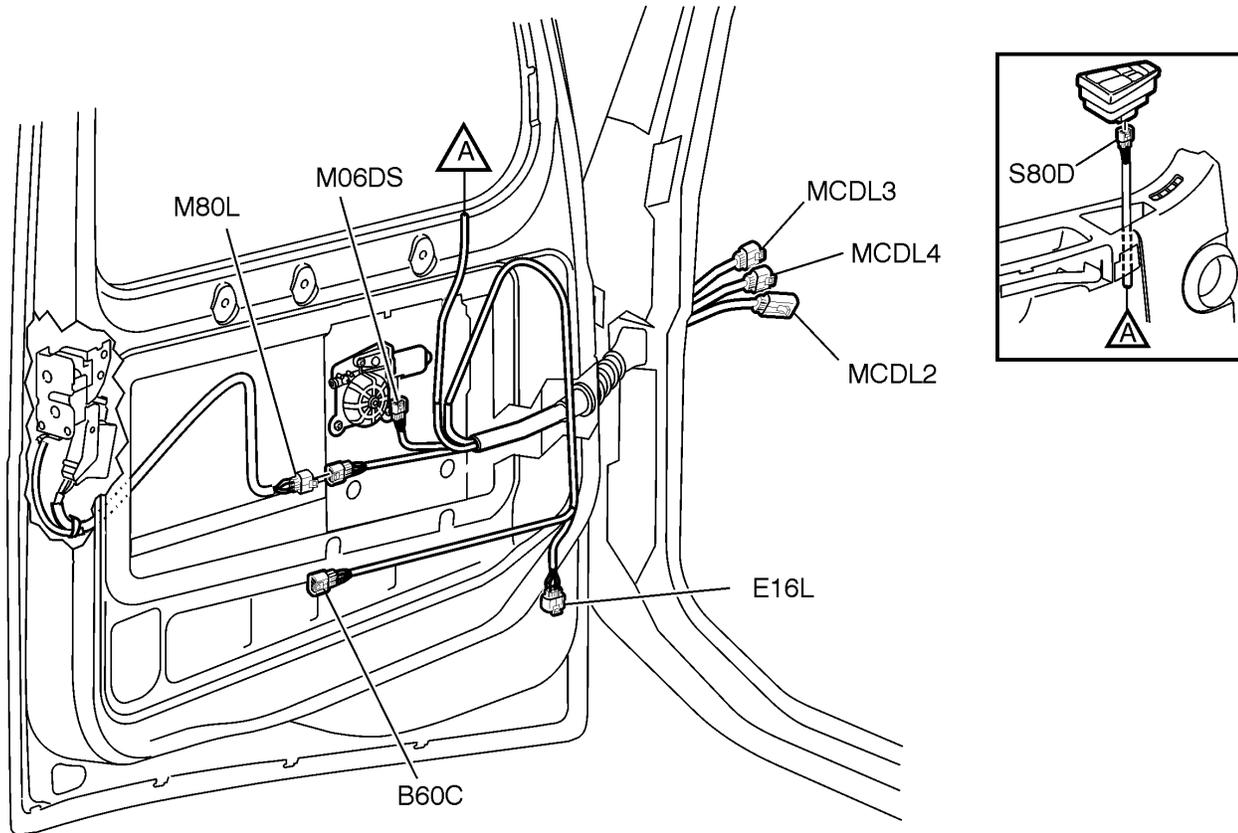


W3006396

Volvo Link Harness and Antennas, 670/780 Sleeper Cab

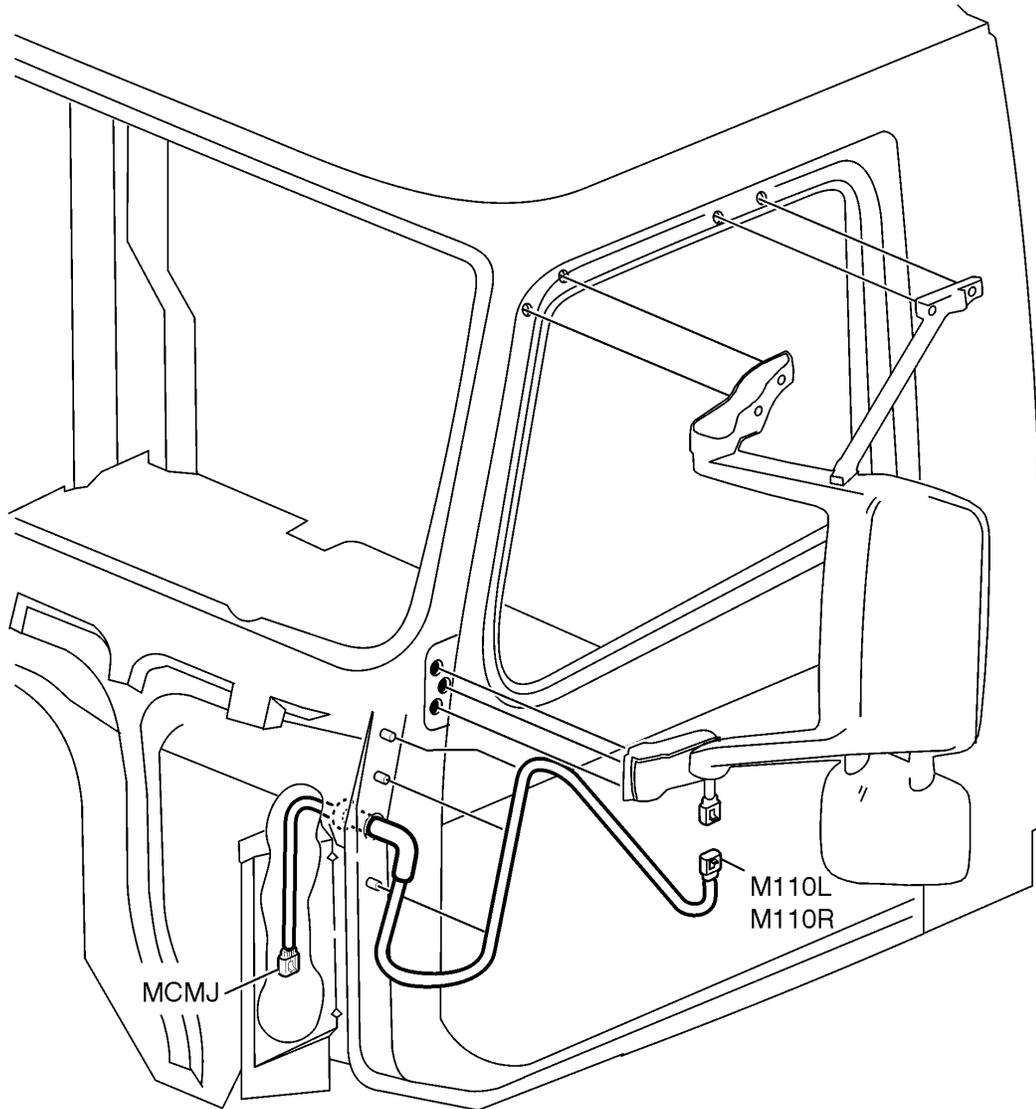


Door Harness

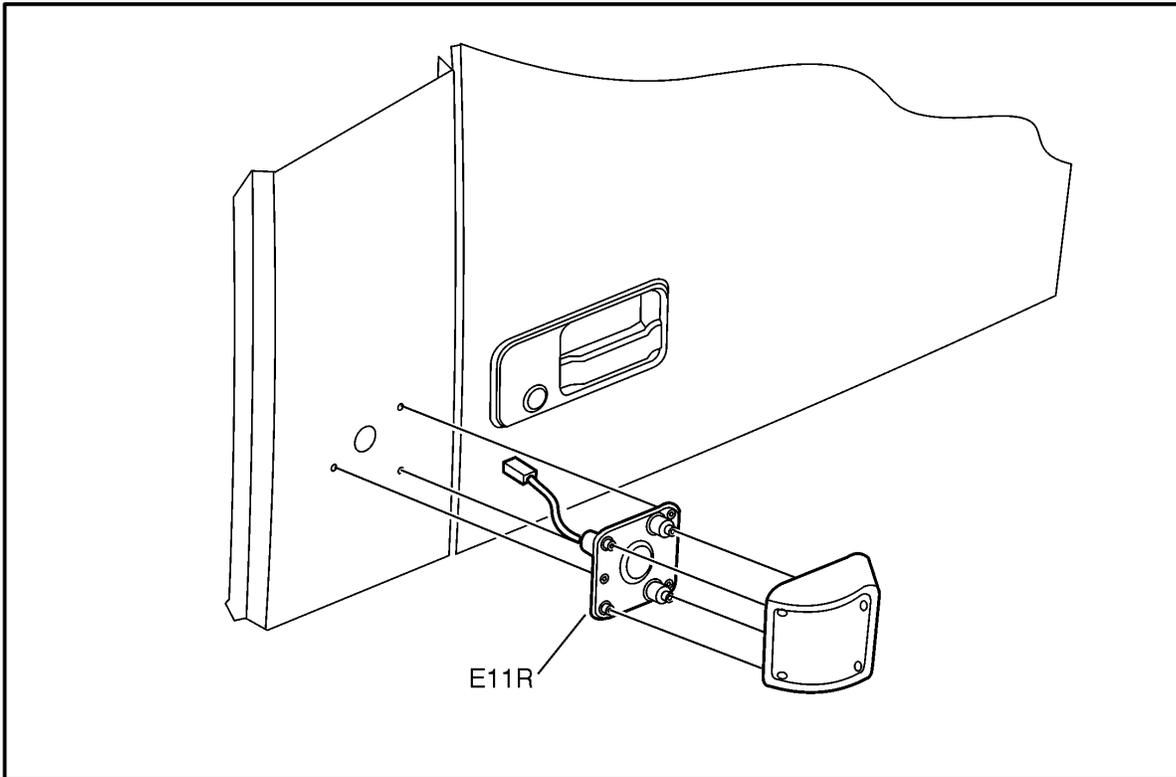
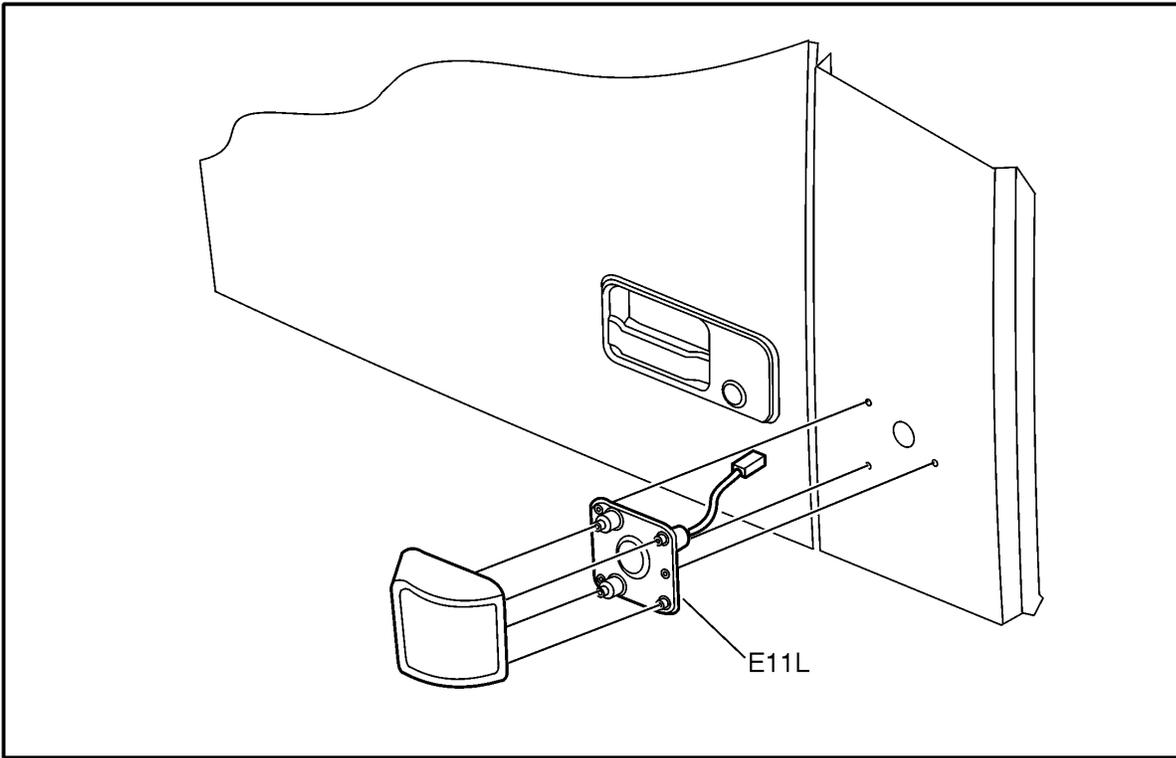


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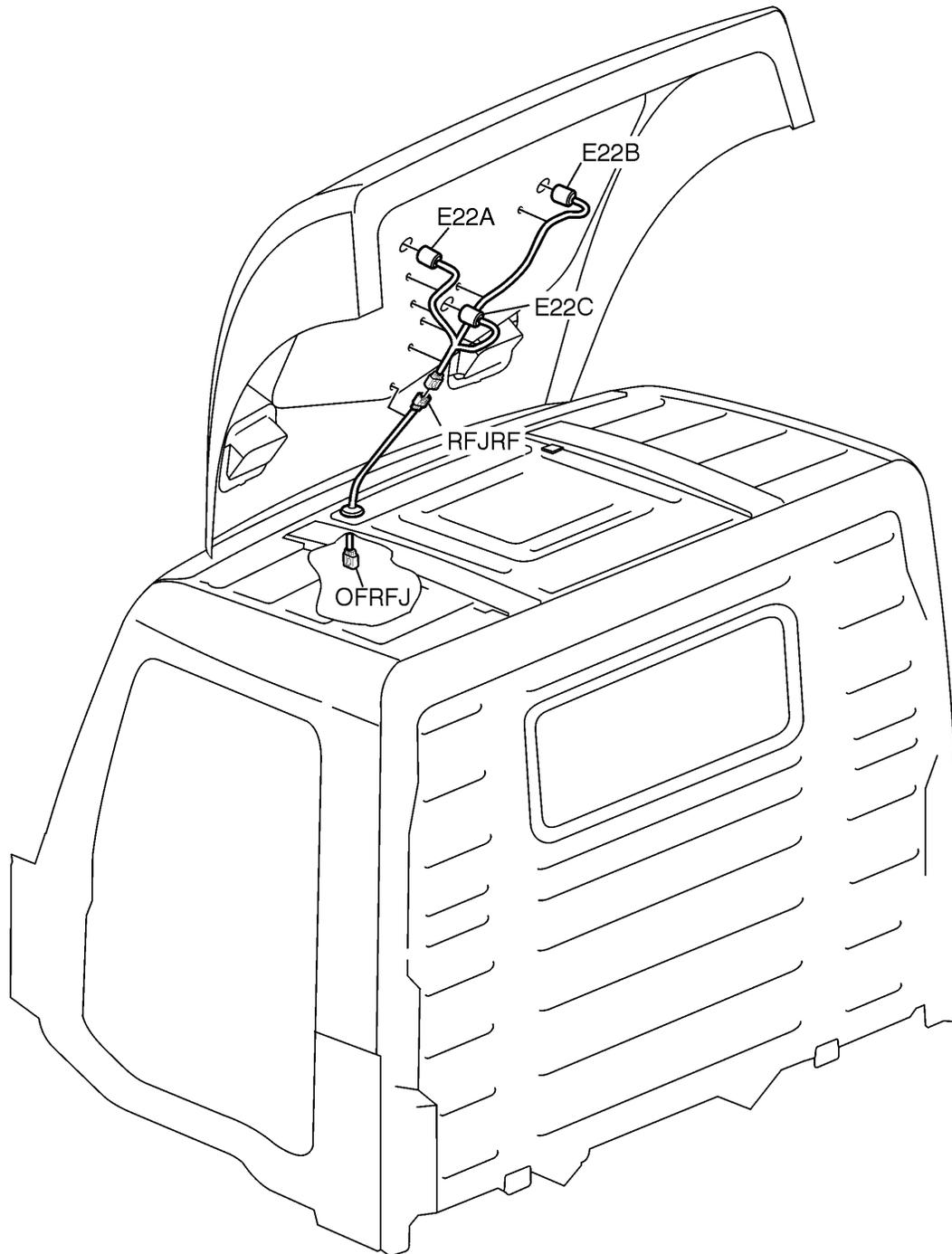
Side Mirrors



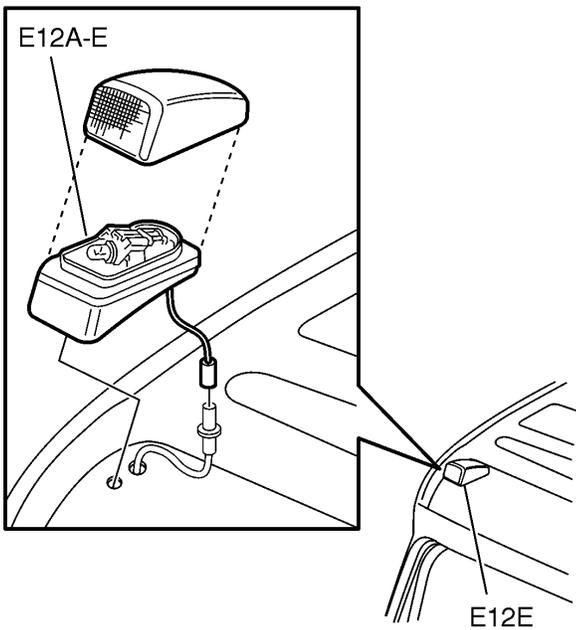
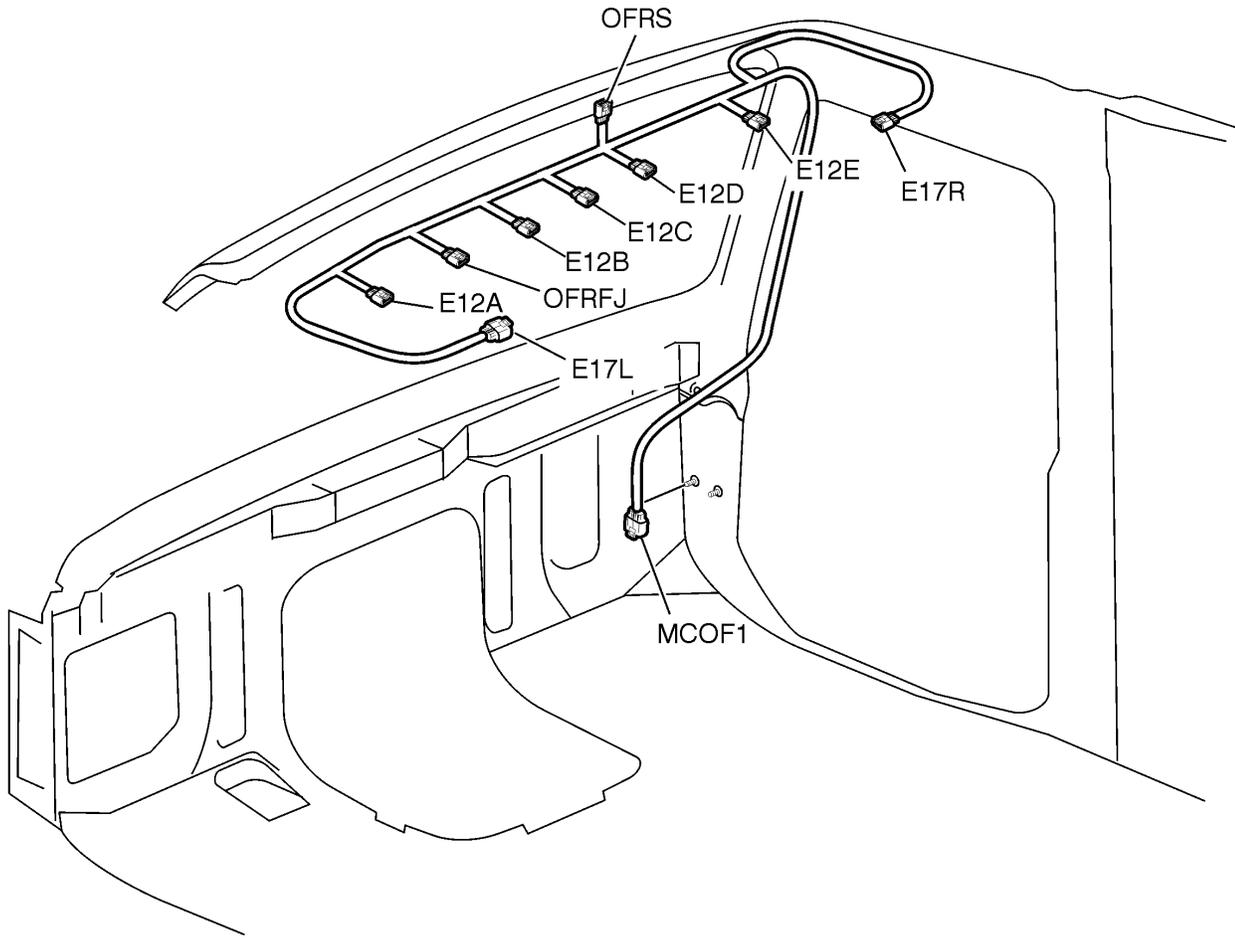
Side Markers



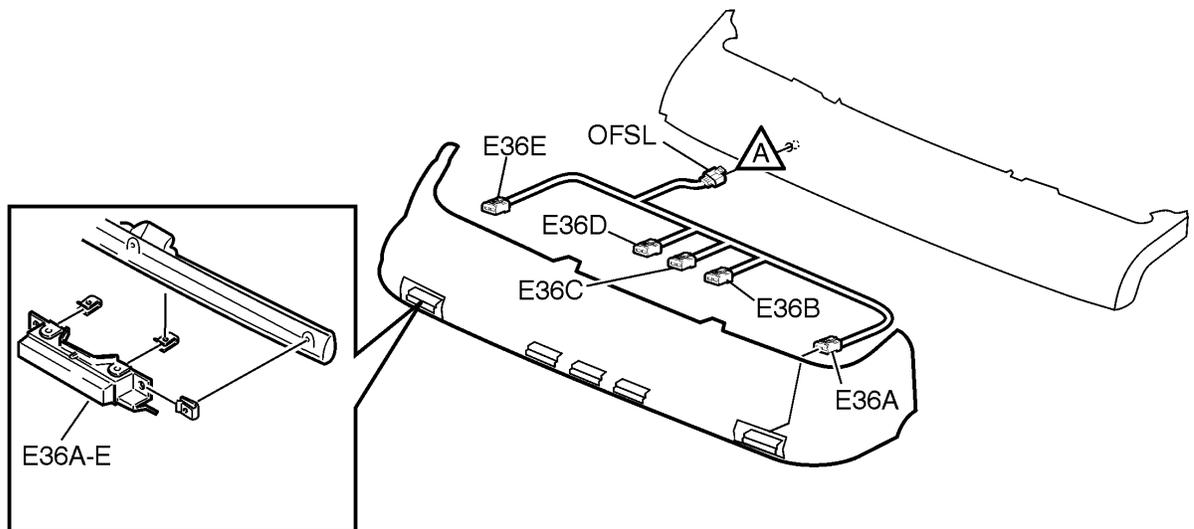
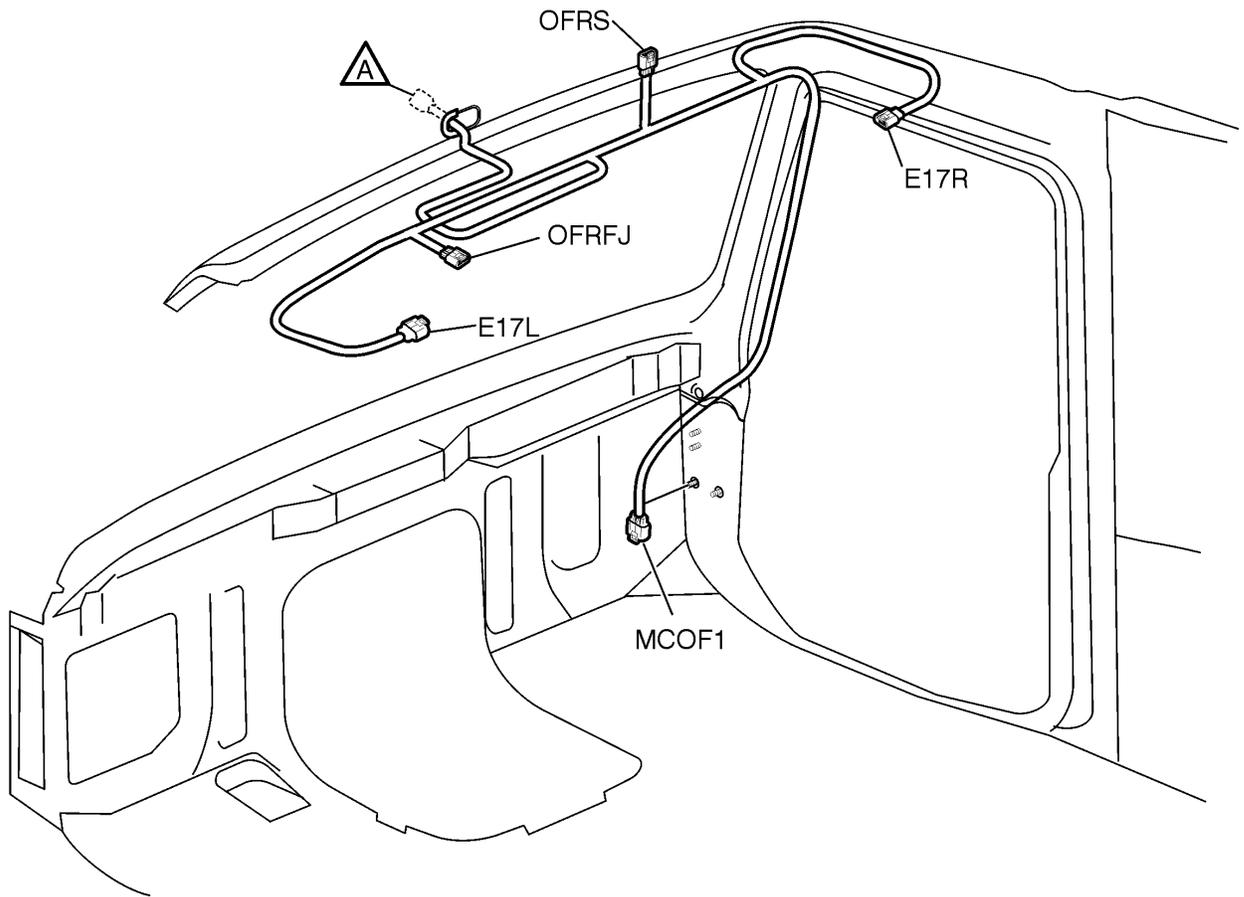
Roof Sign Harness



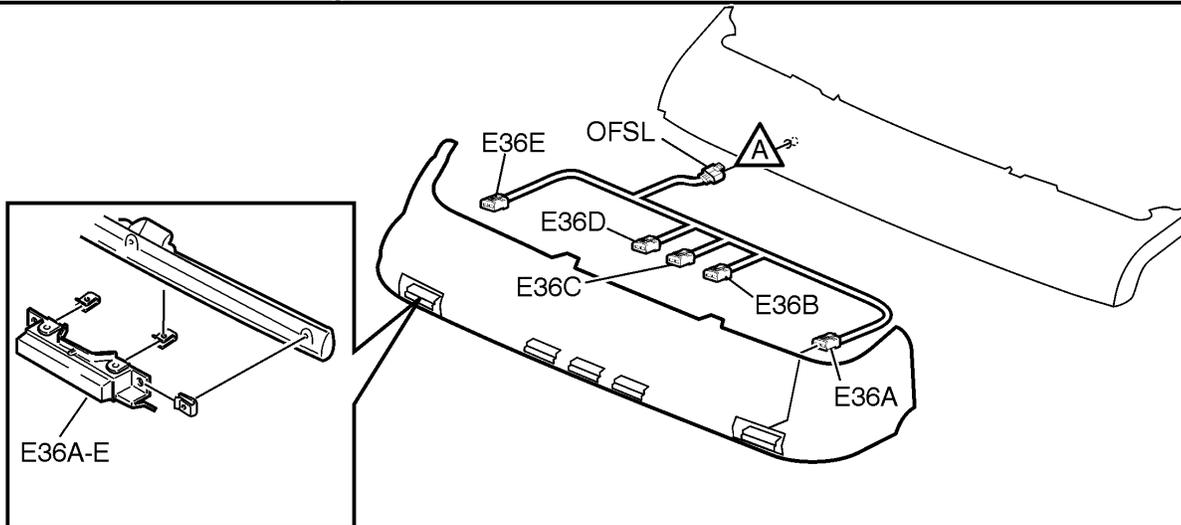
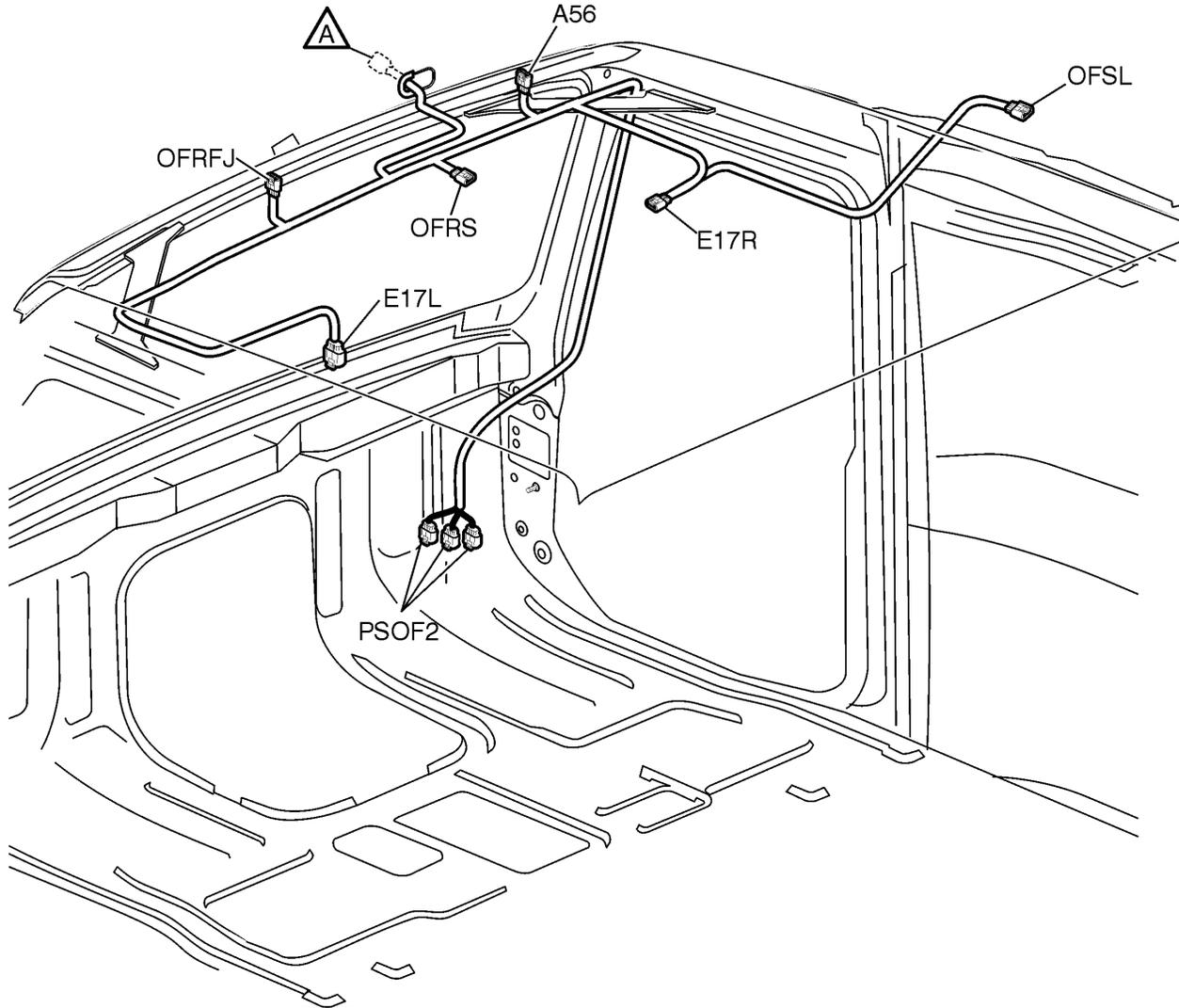
Overhead Marker Lights



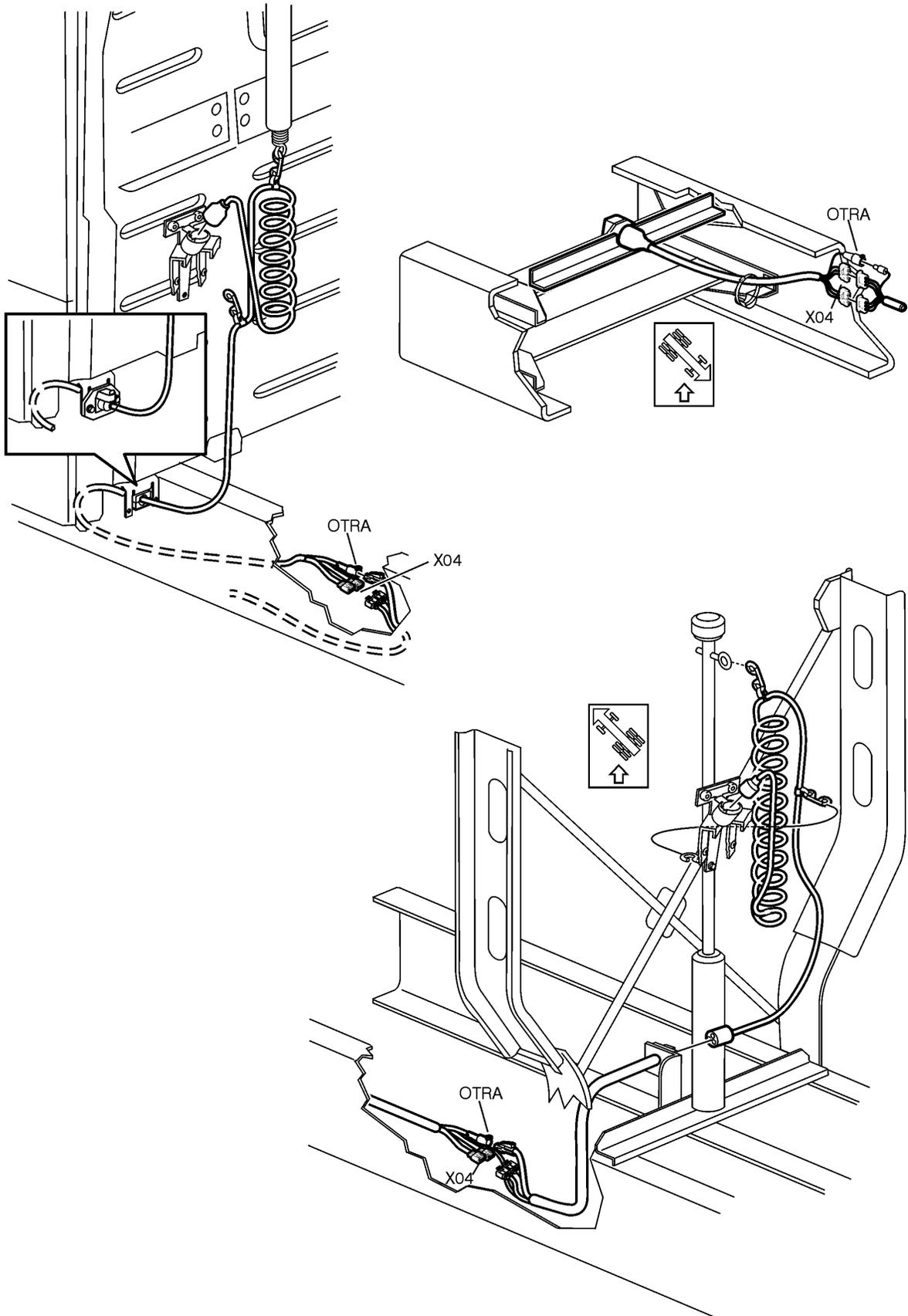
Sunvisor Harness (Daycab, VN430 and 630)



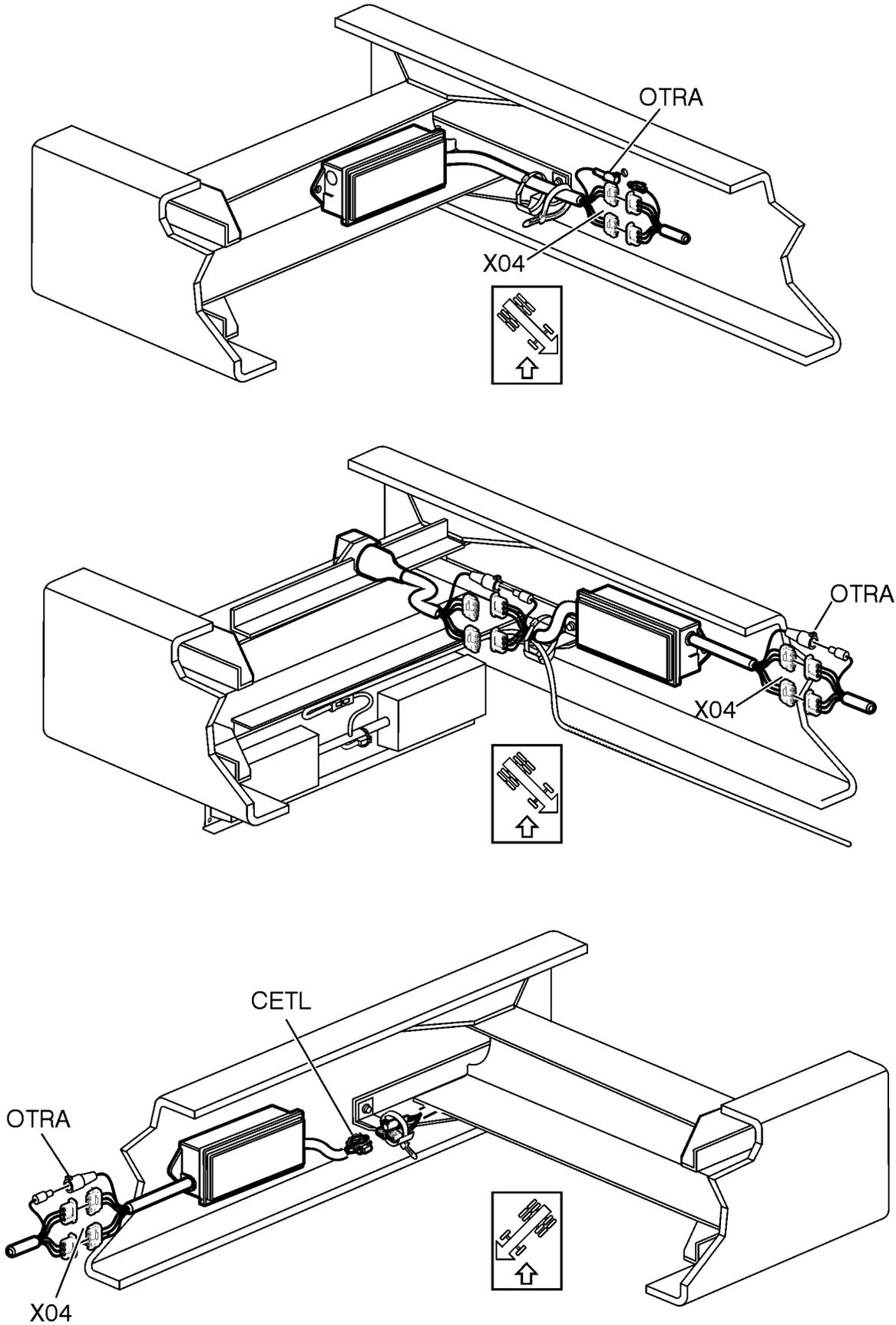
Sunvisor Harness (VN670 and 780)



Trailer Cable Connections

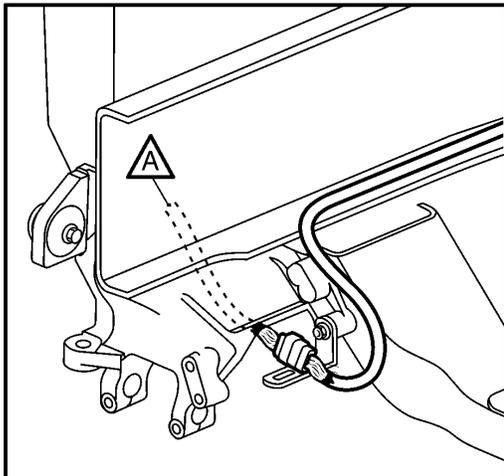
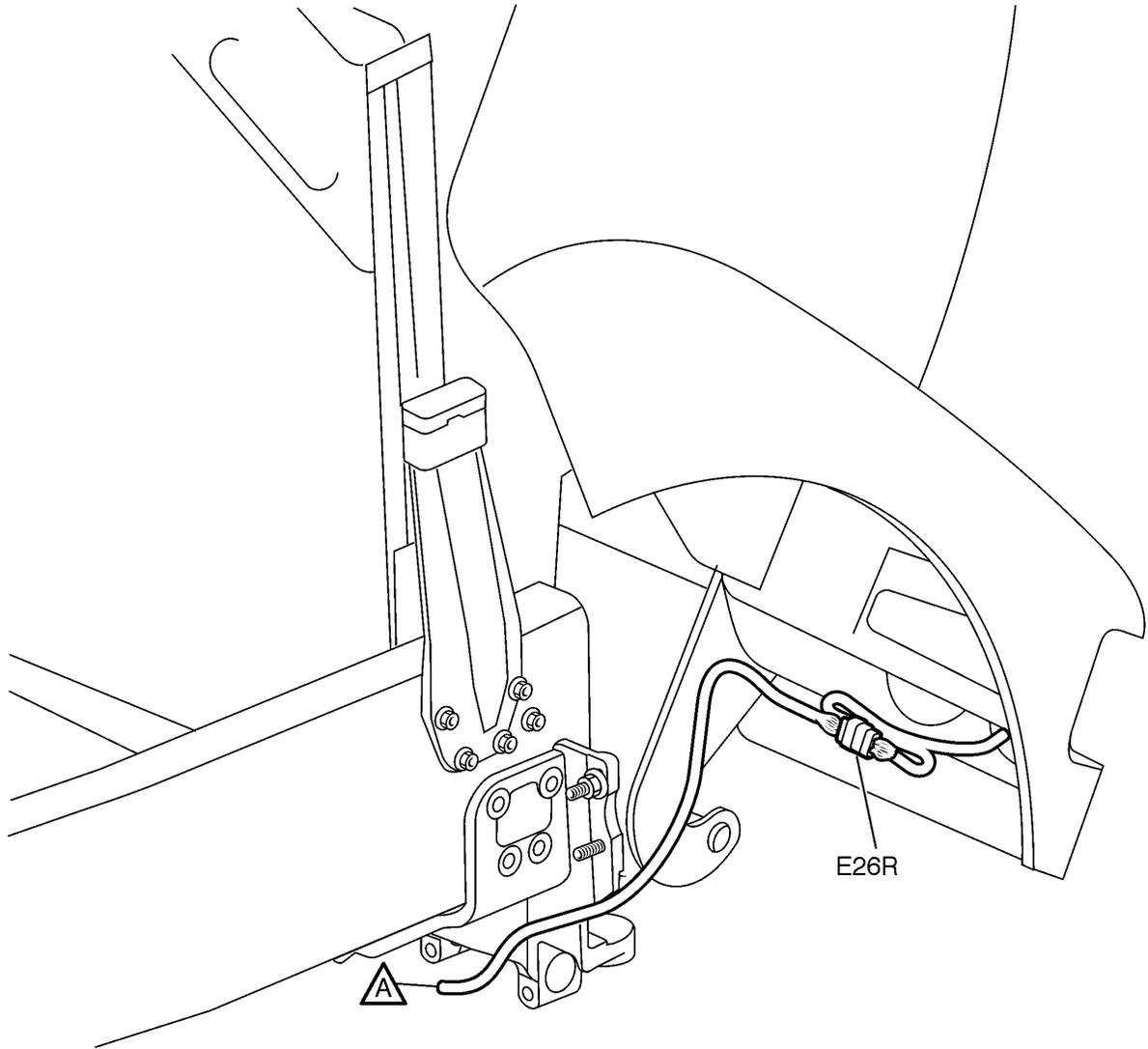


Bodybuilder Box, VHD

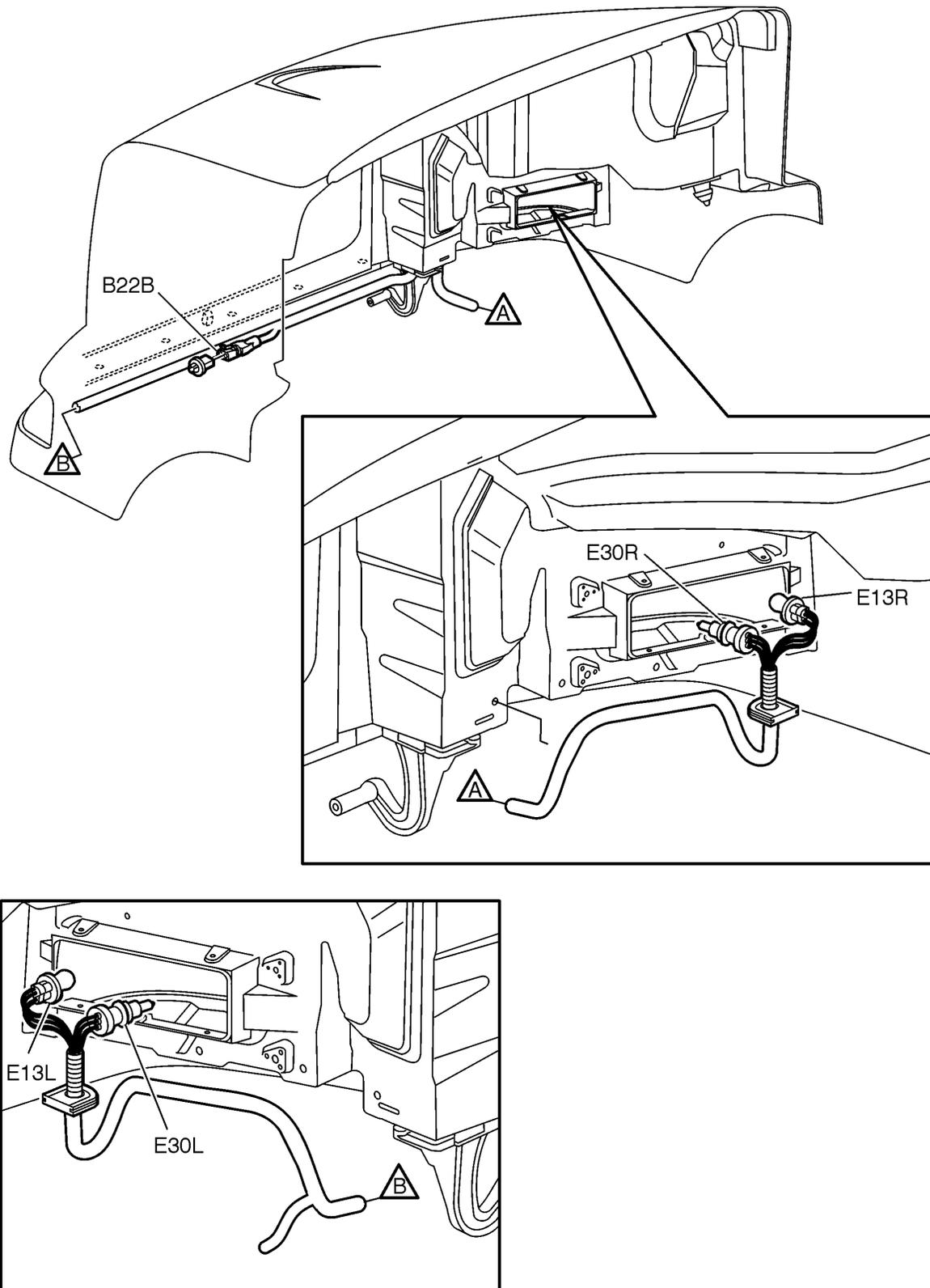


W3006369

Headlight Harness, VHD

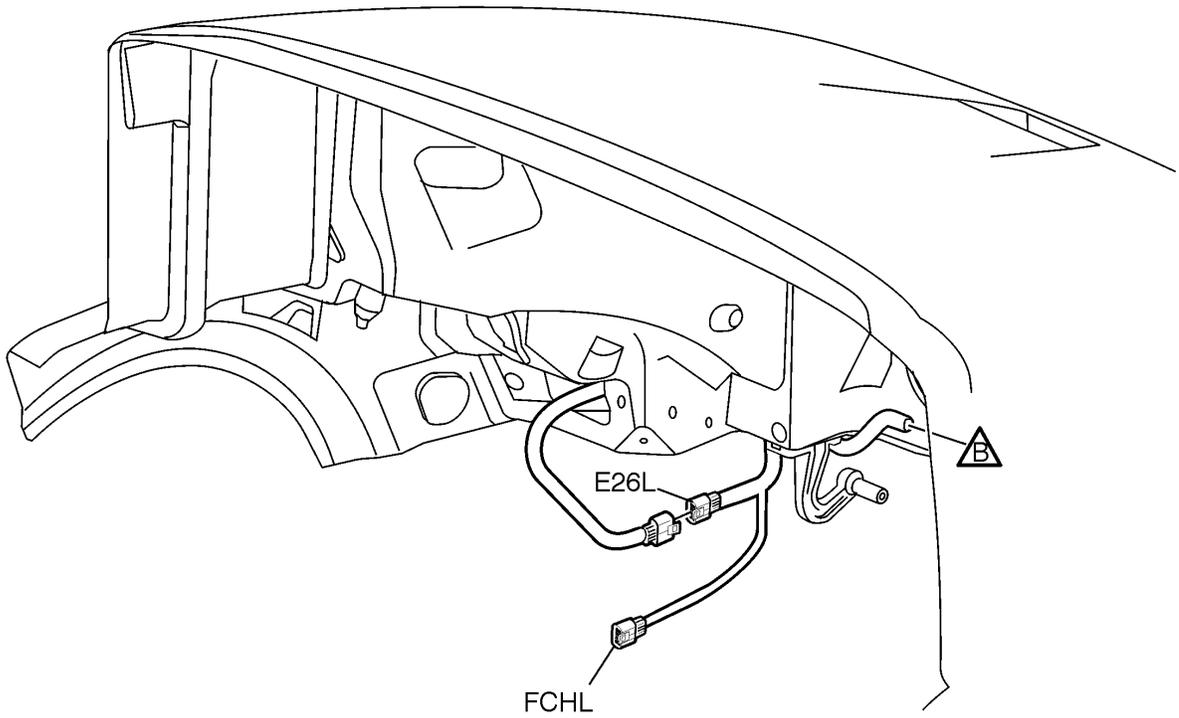
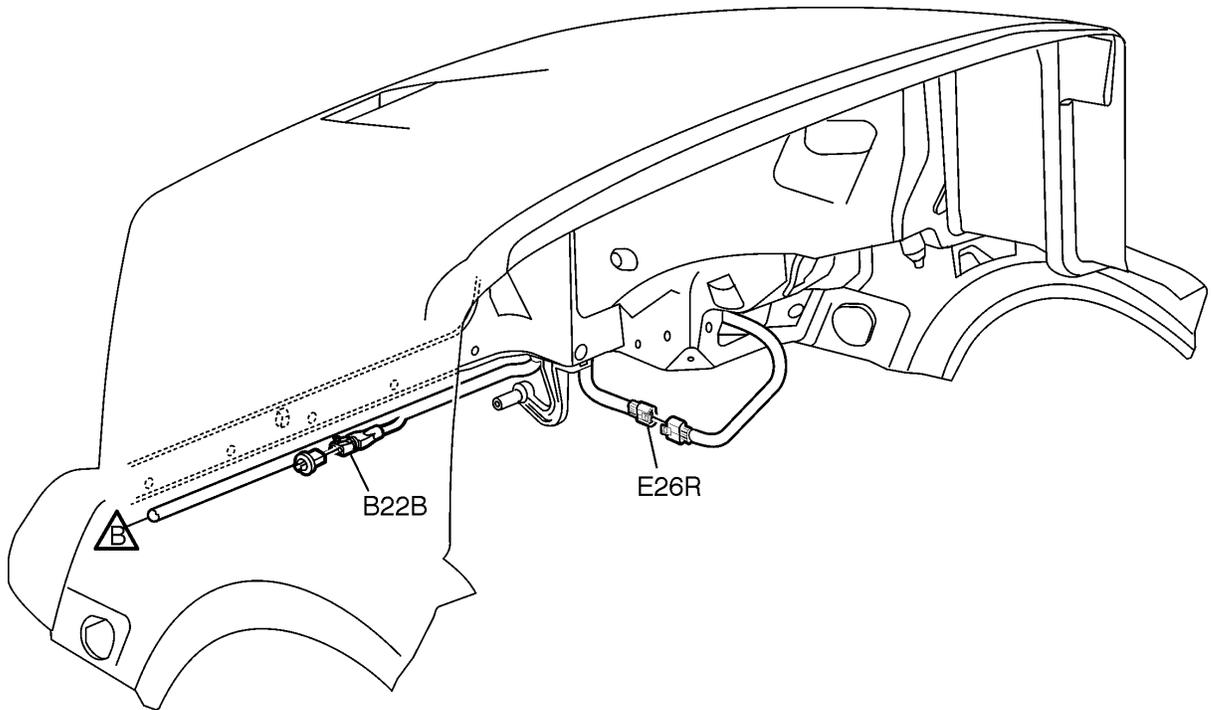


Headlight Harness, VNM



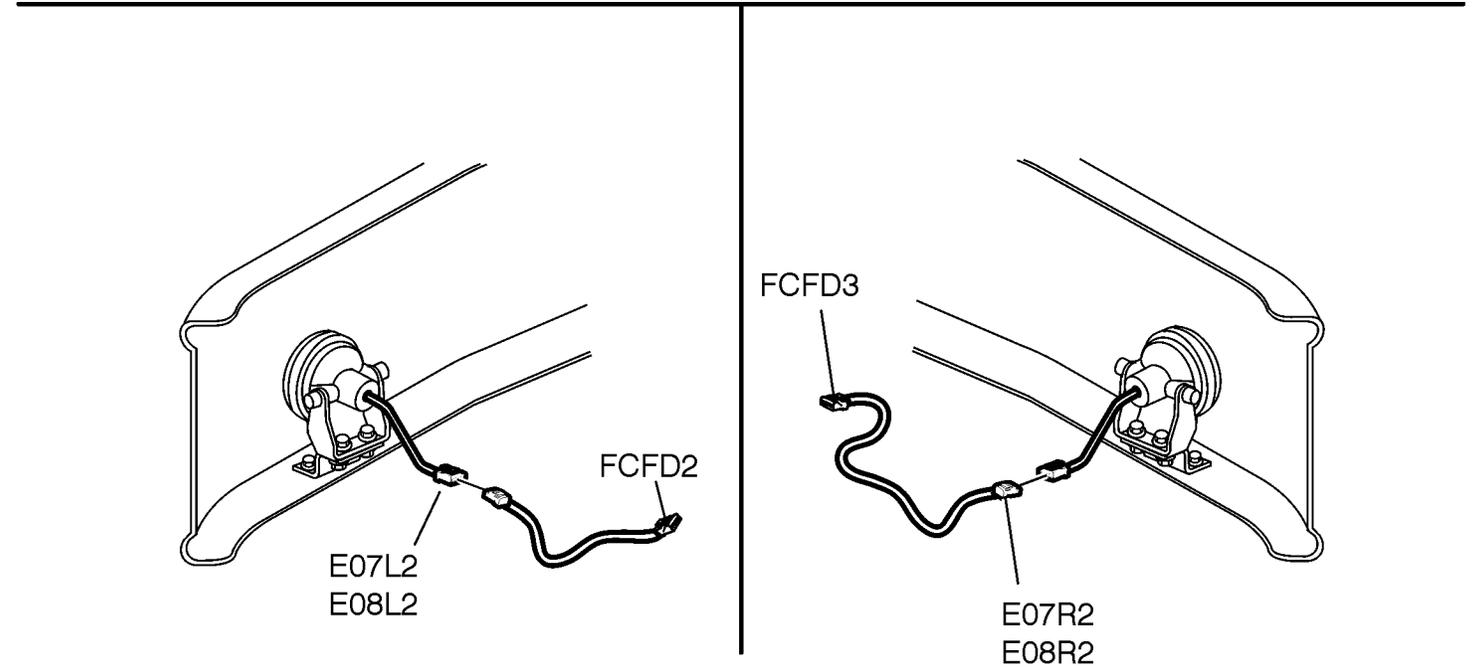
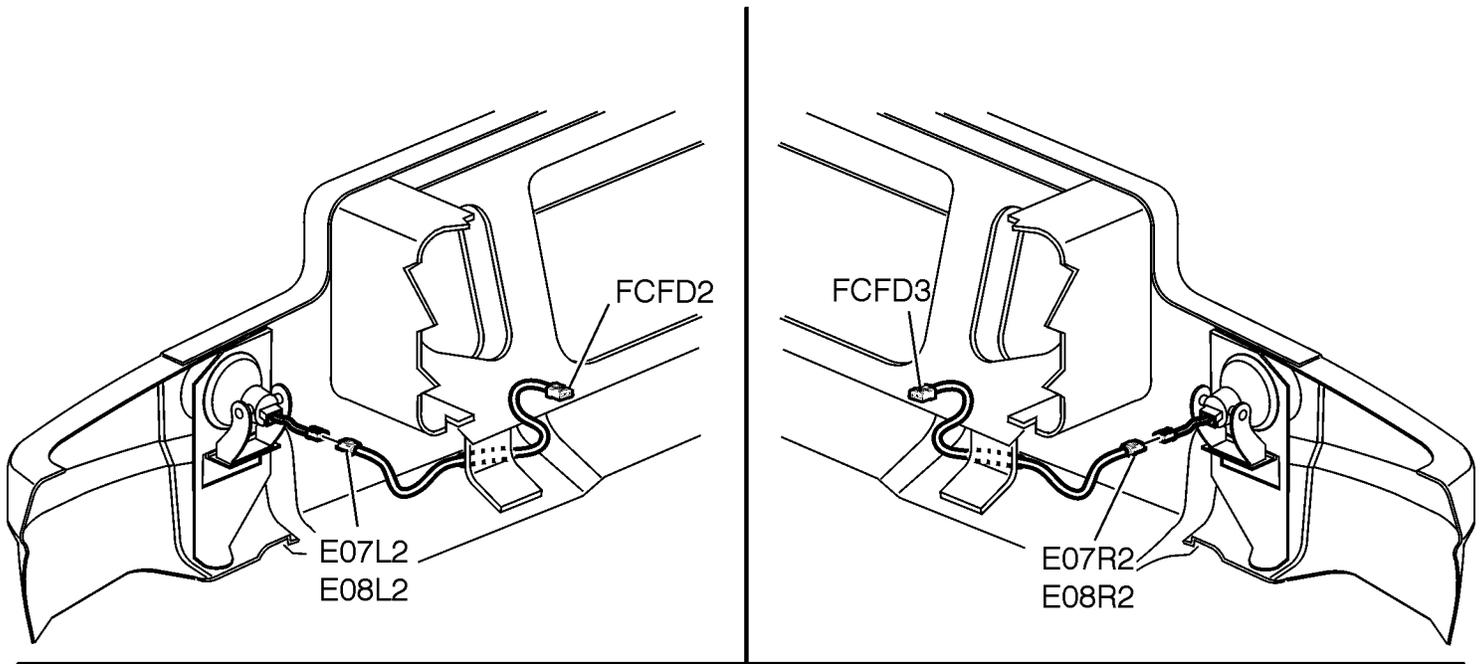
W3005901

Headlight Harness, VNL



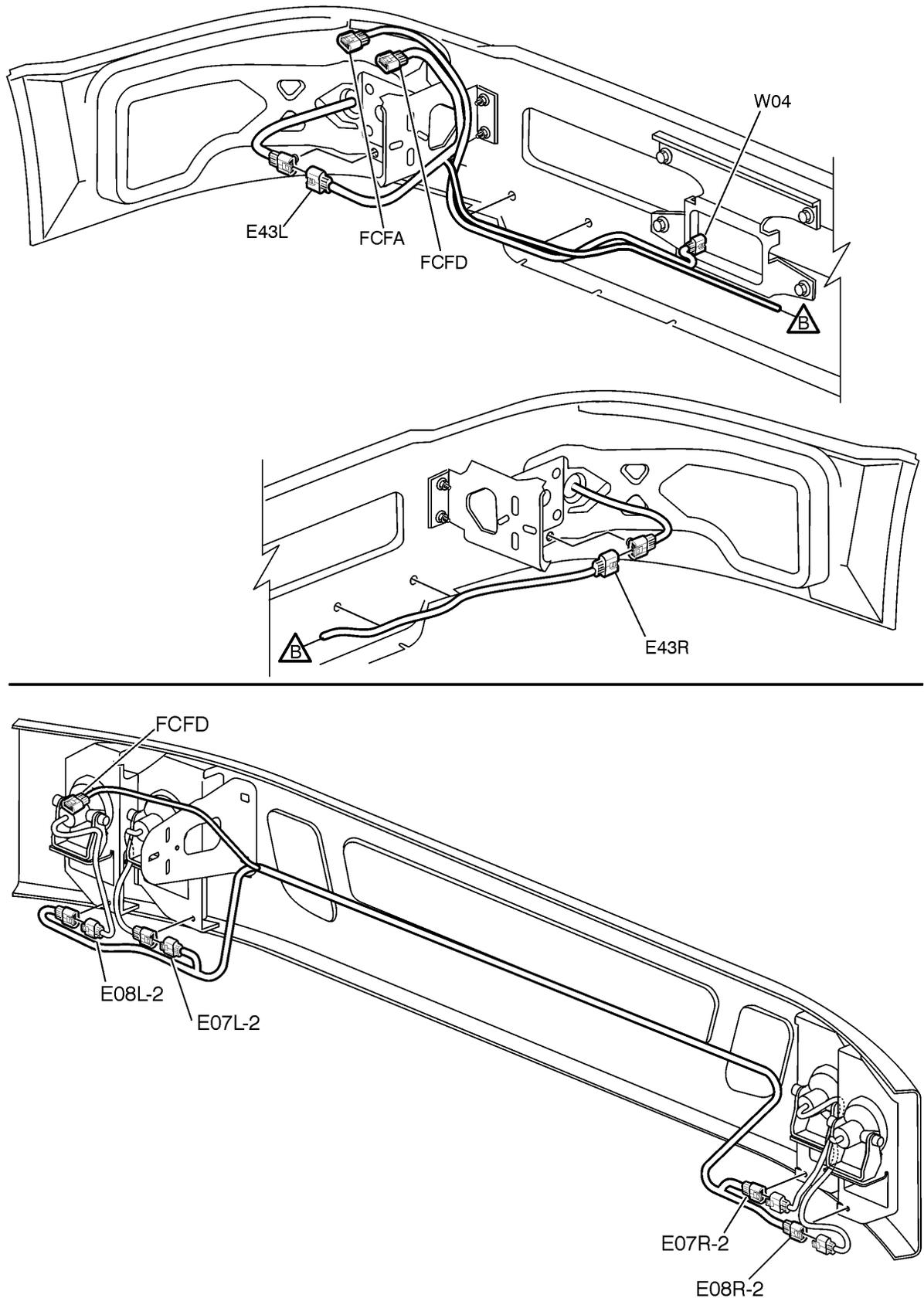
W3005898

Fog and Driving Lights, VHD



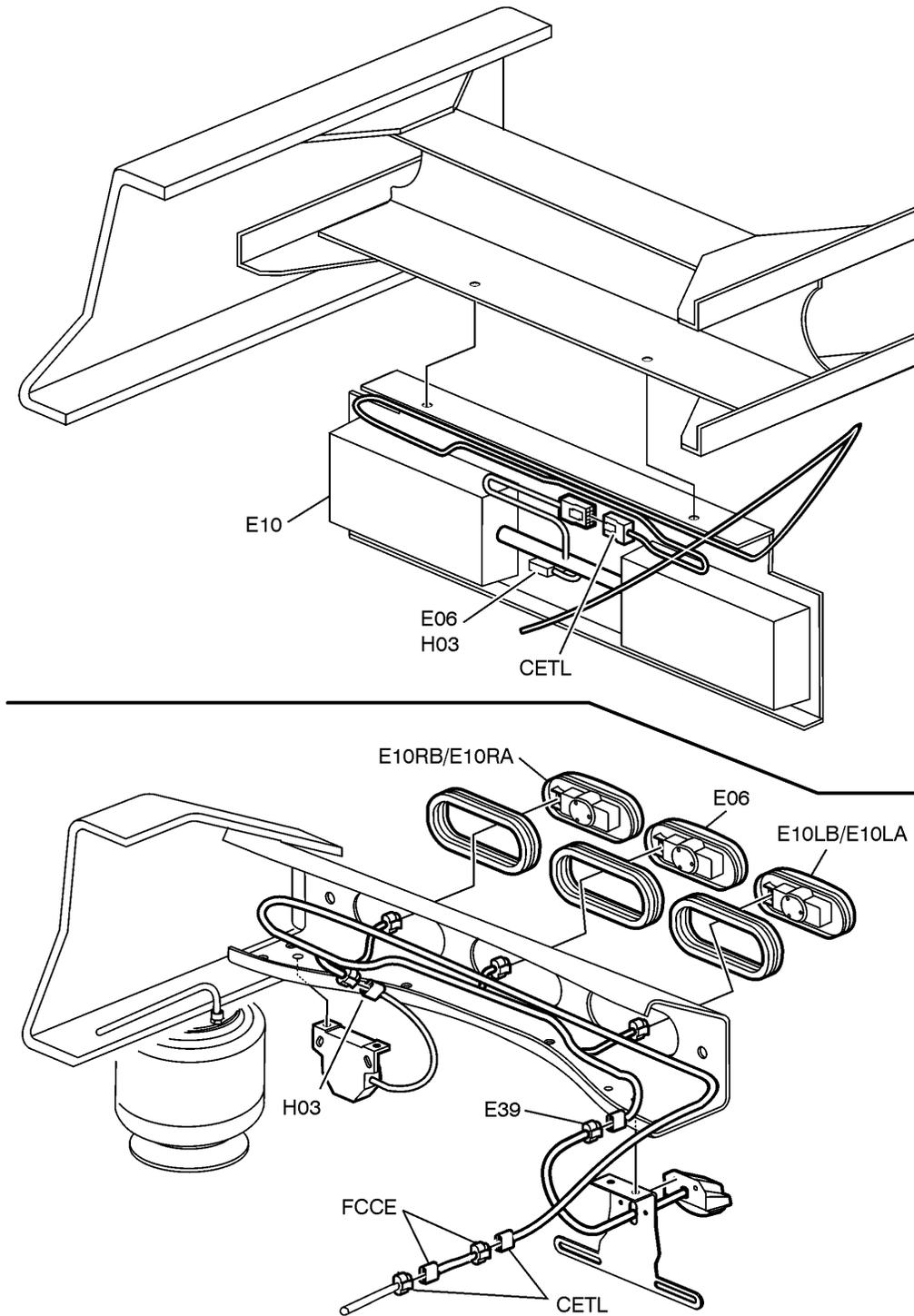
W3005952

Fog and Driving Lights, VNL and VNM



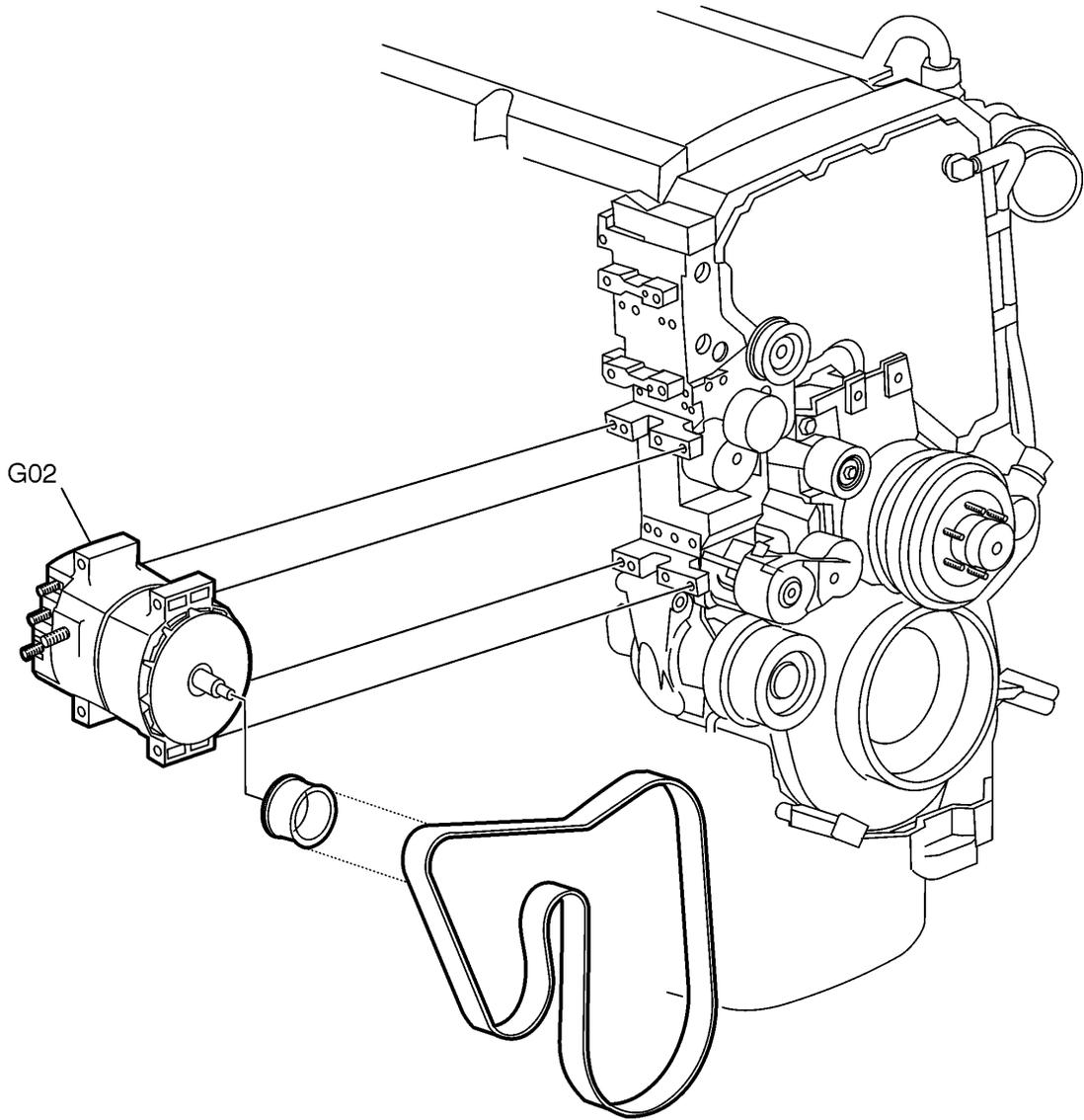
W3005933

Tail lights



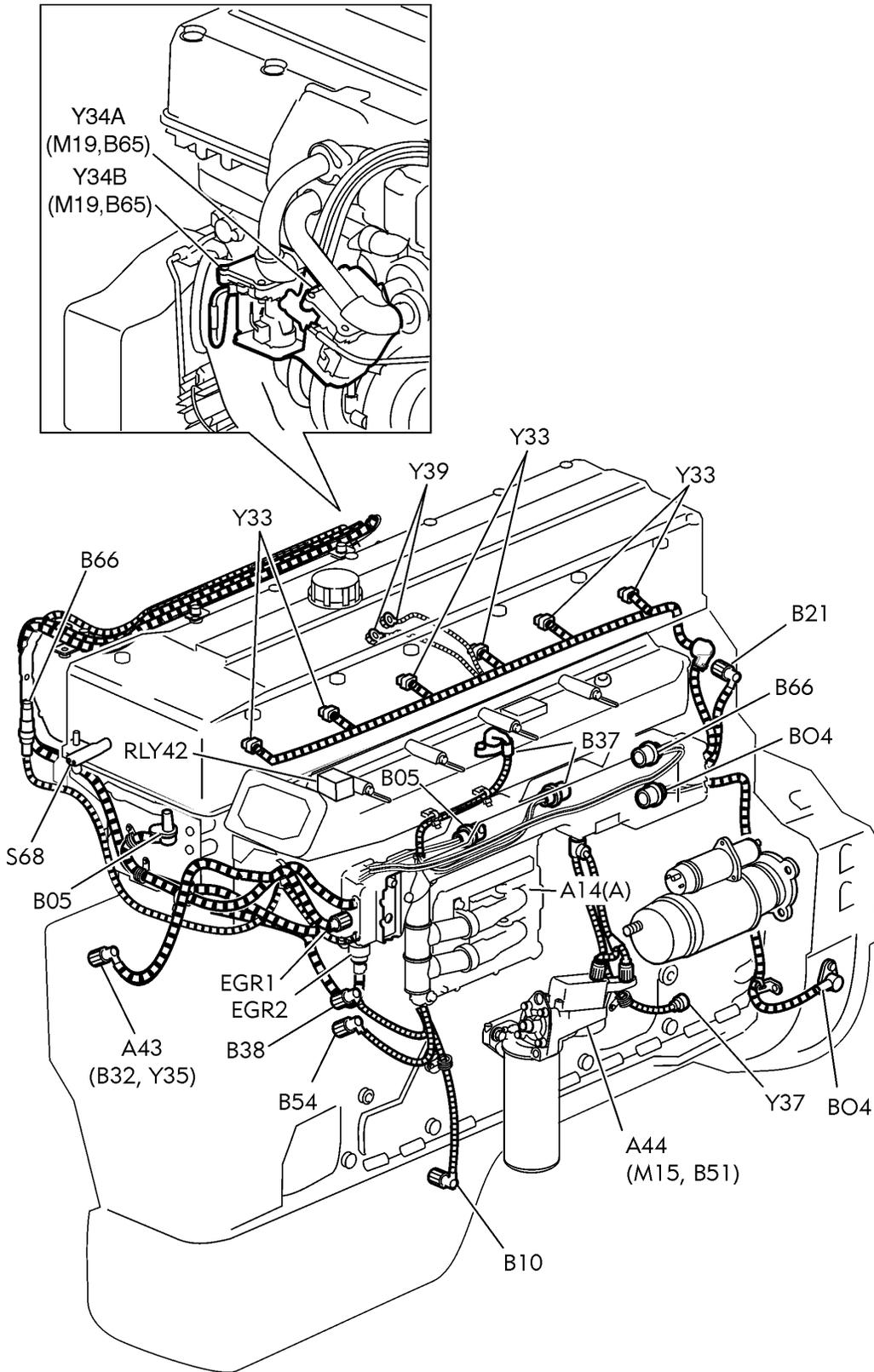
W3006624

Alternator (typical view)



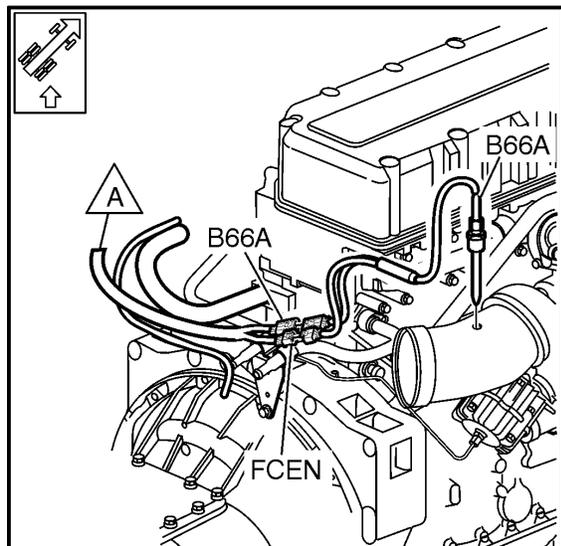
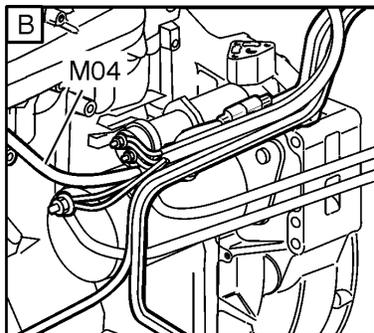
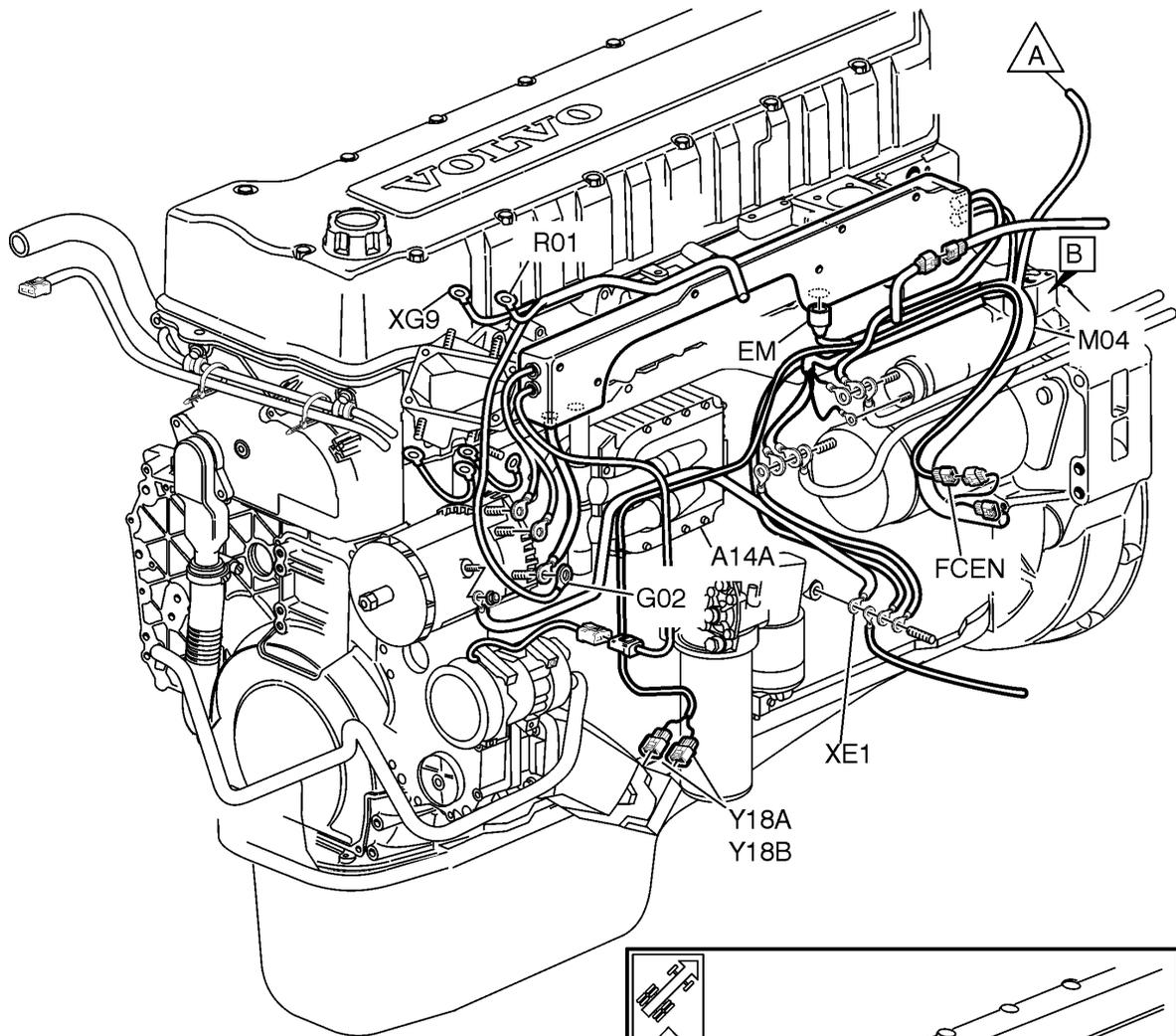
W3005908

D12D



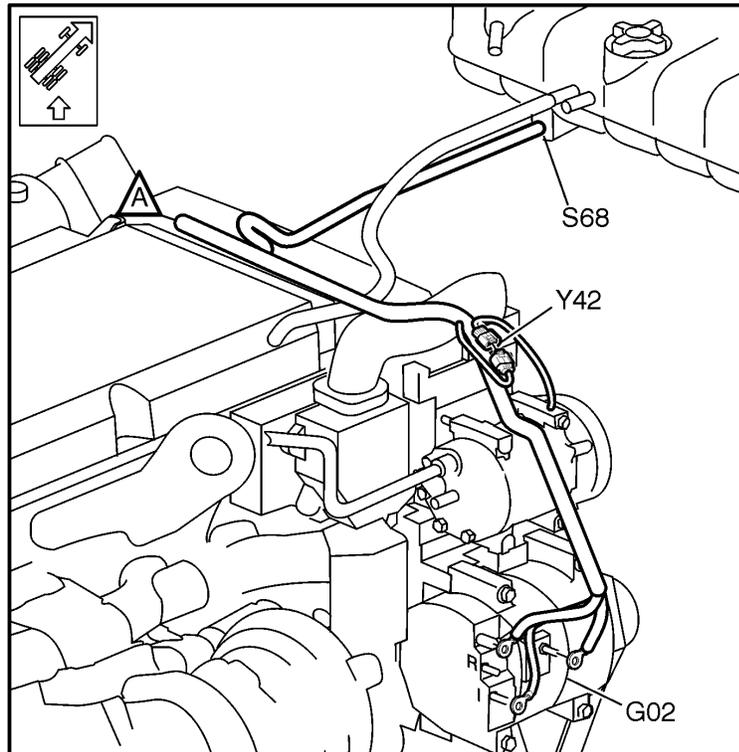
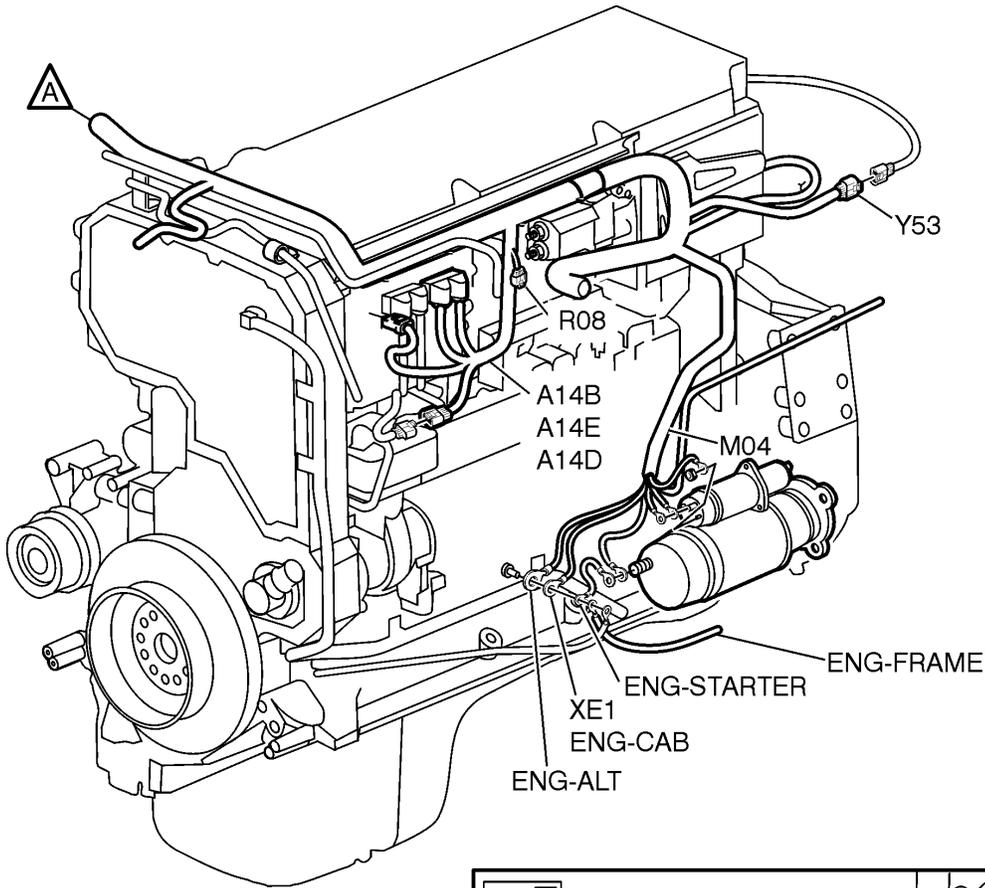
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D12D (Continued)



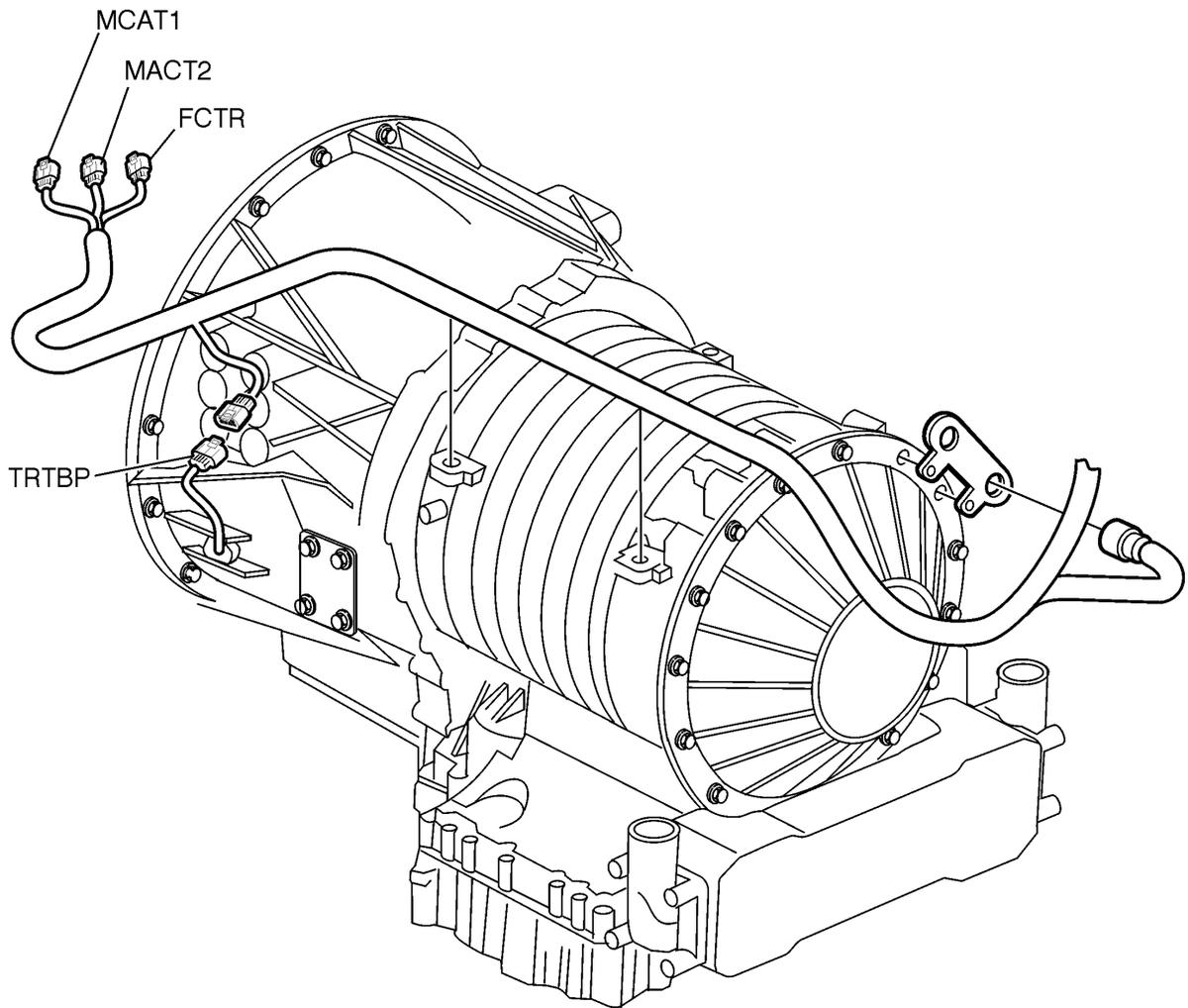
W3006513

Engine, Cummins ISX



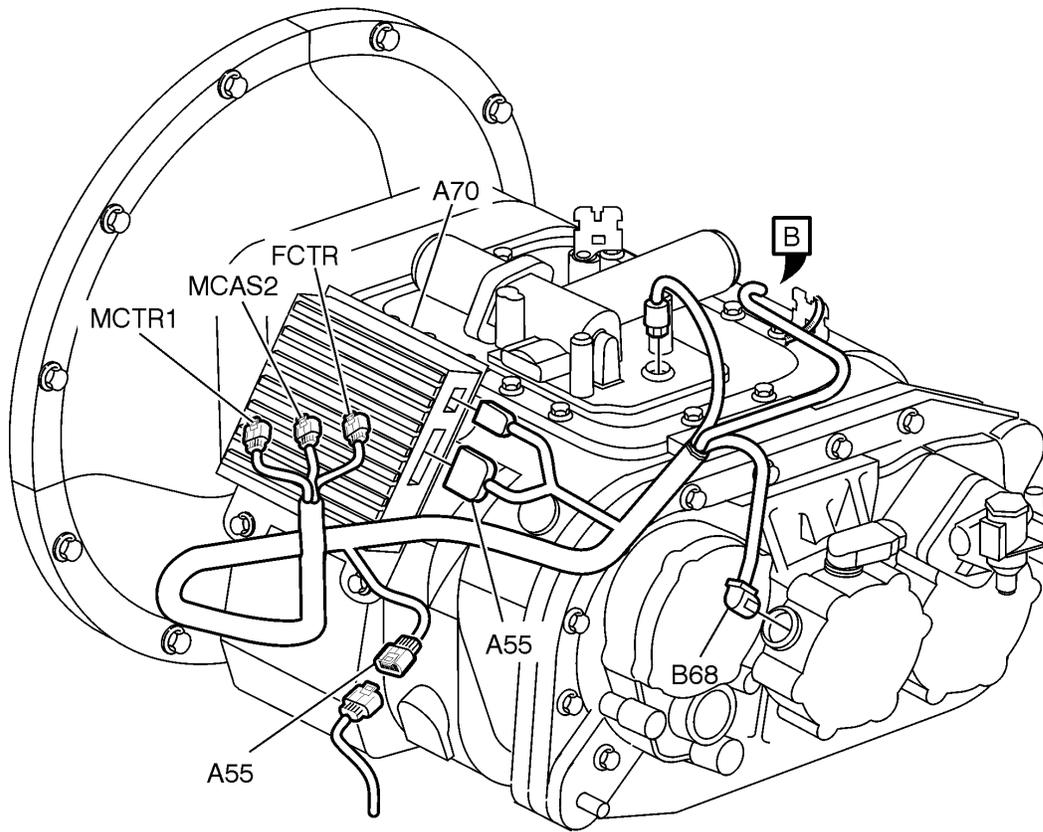
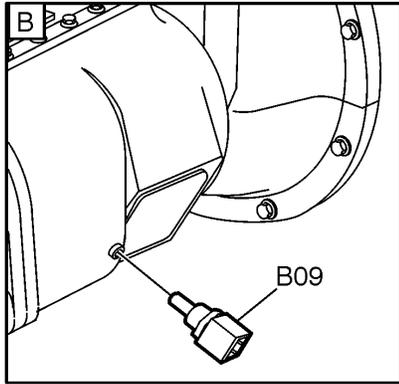
W3006509

Allison HD Transmission, VHD (BBOX-LF)



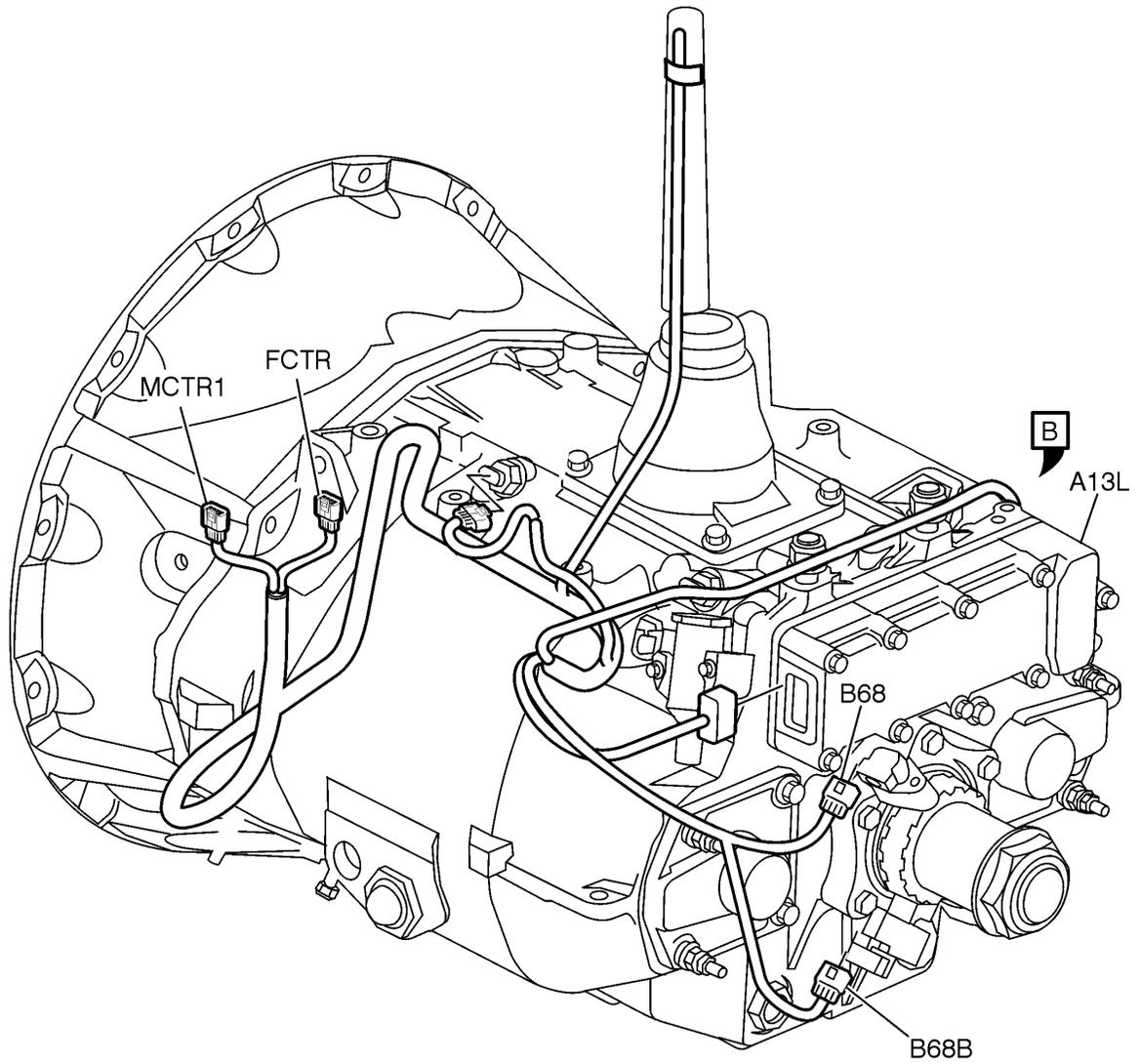
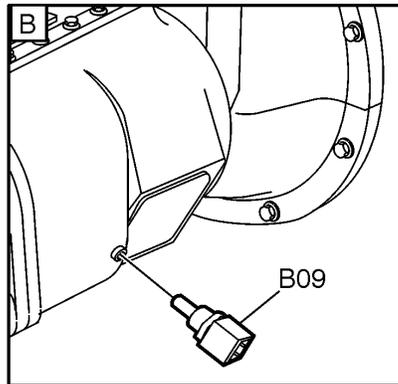
W3006626

Eaton Autoshift II Transmission



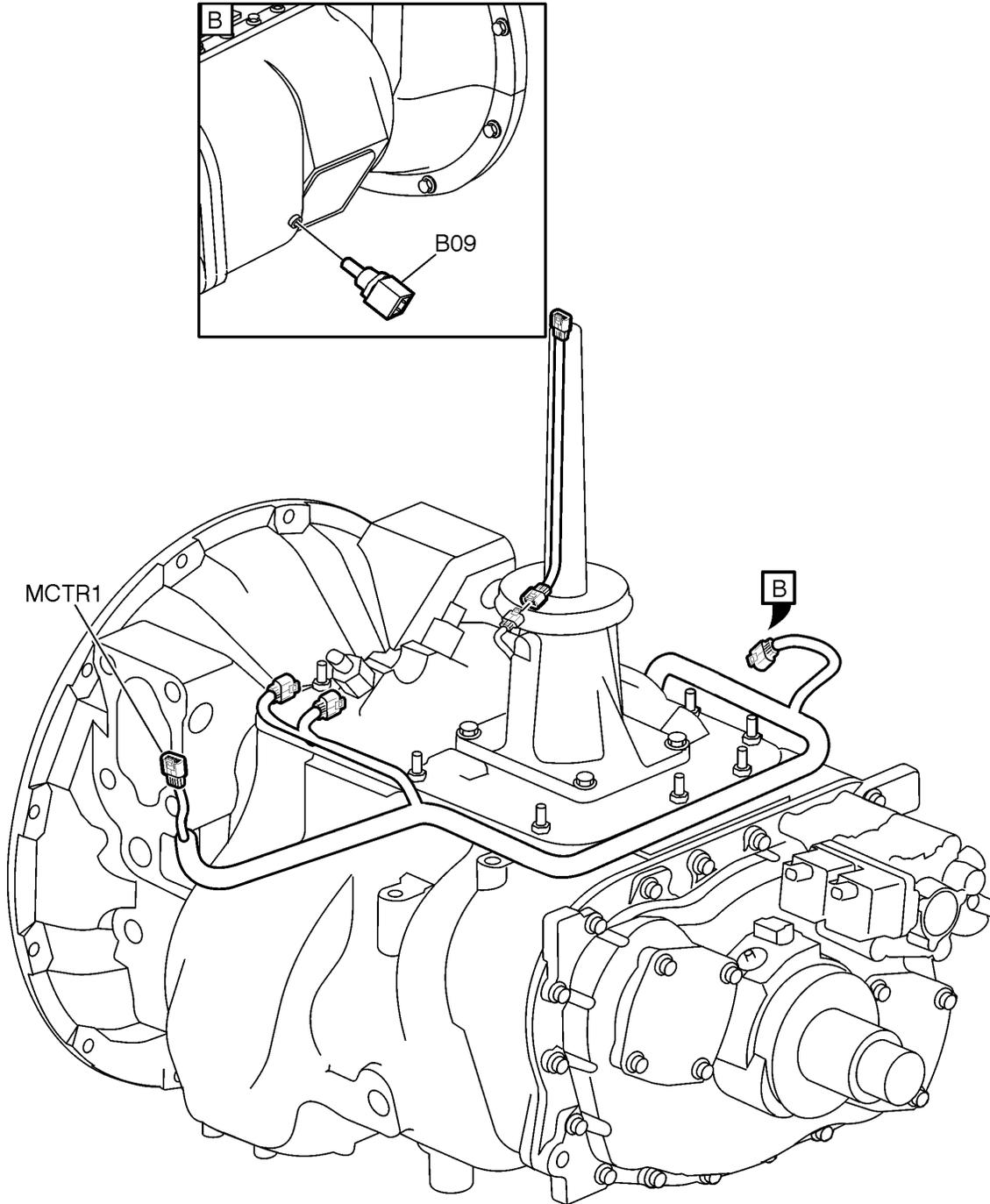
W3005890

Eaton Lightning Transmission



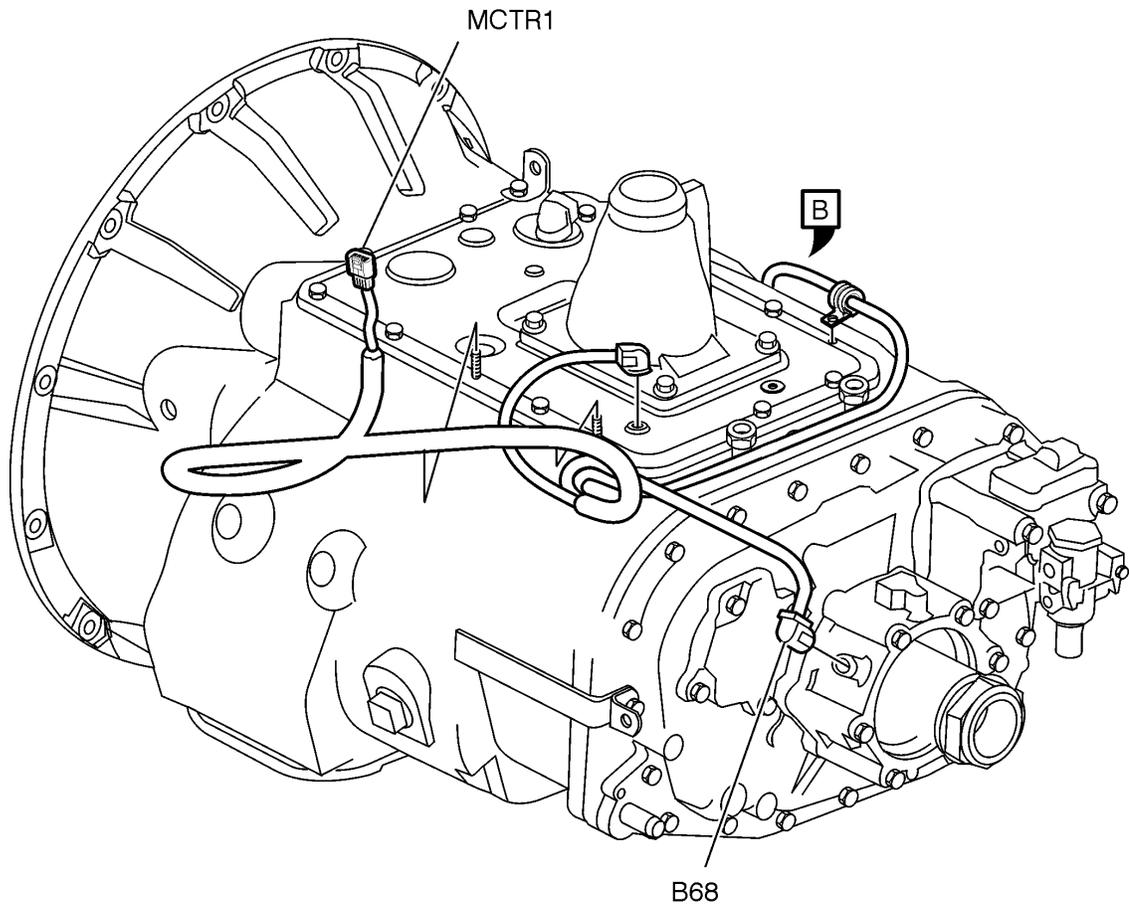
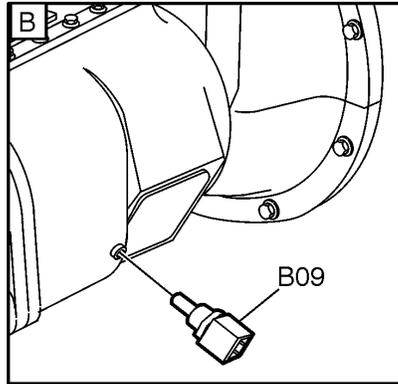
W3005891

Meritor Transmission



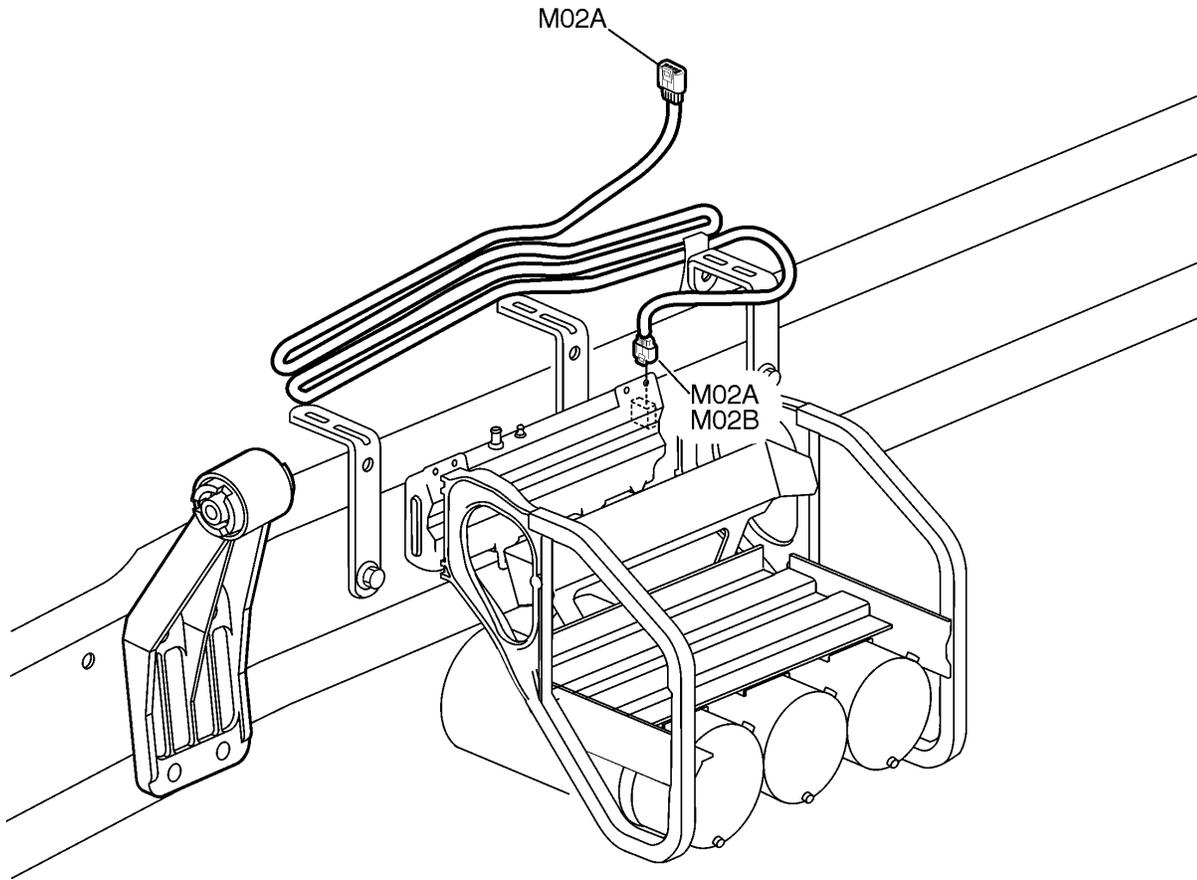
W3005892

Eaton Fuller Transmission



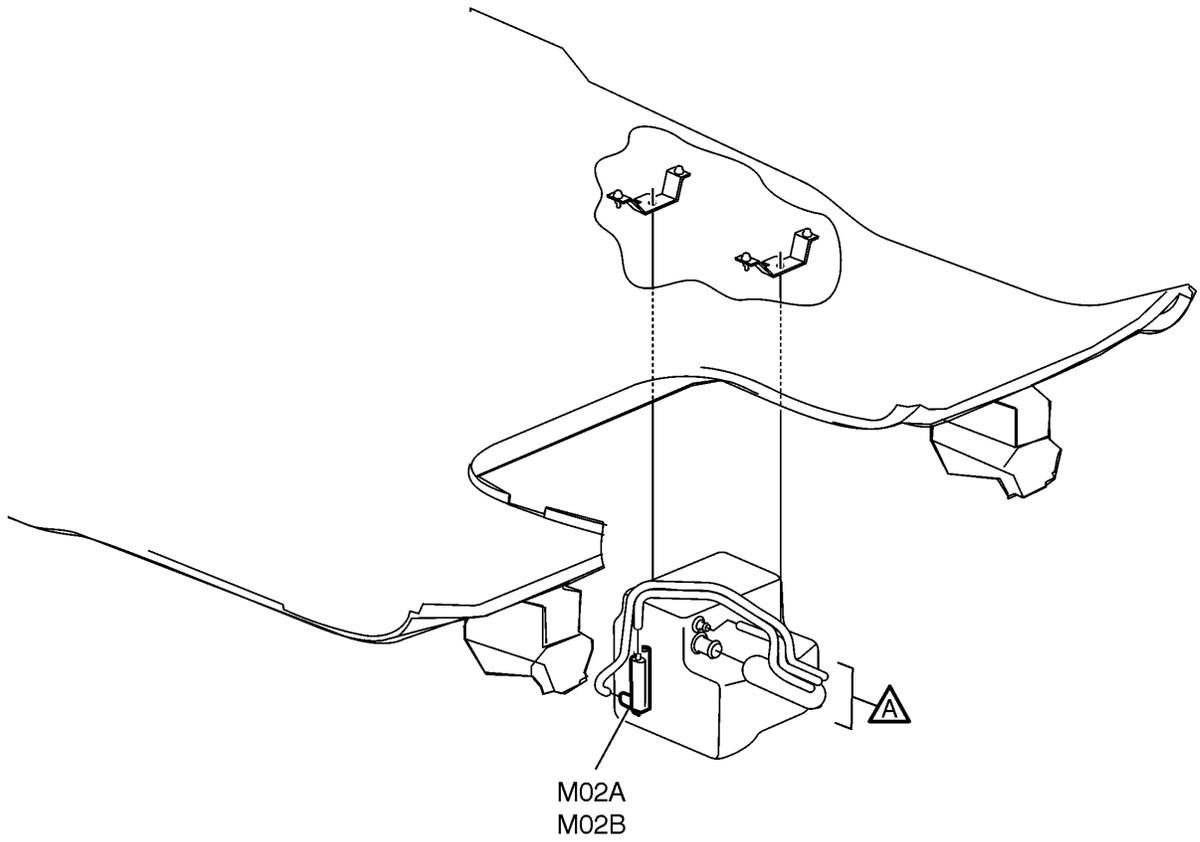
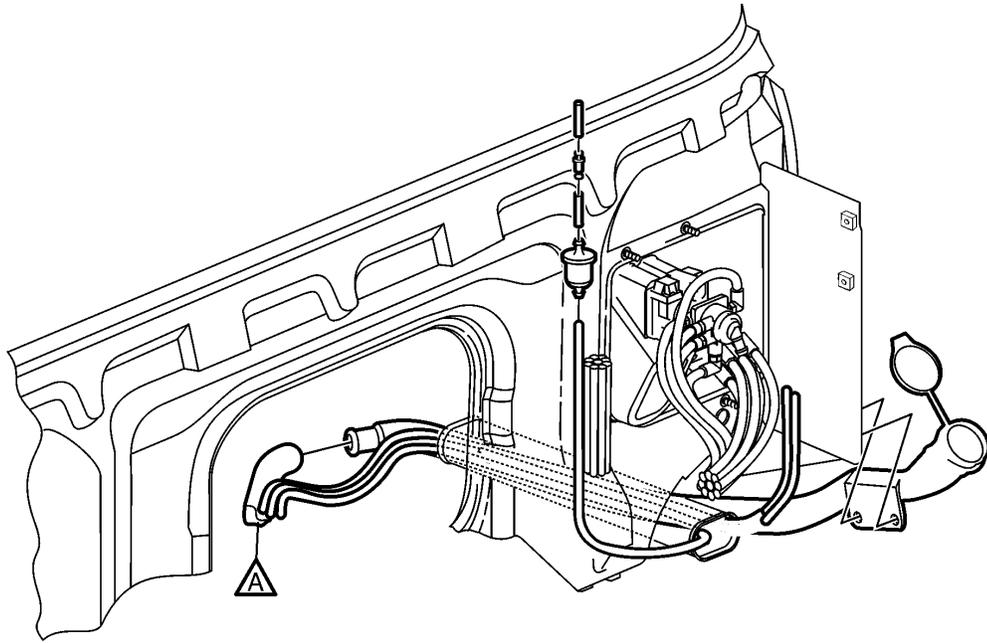
W3005893

Washer Reservoir, VN



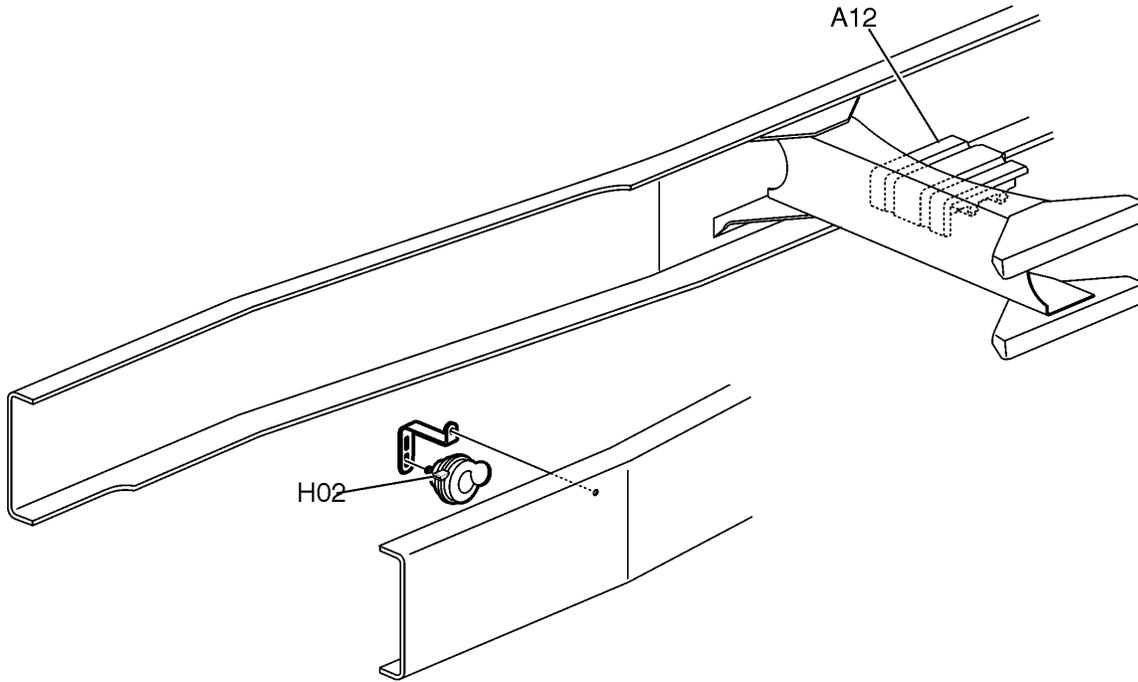
W3006627

Washer Reservoir, VHD



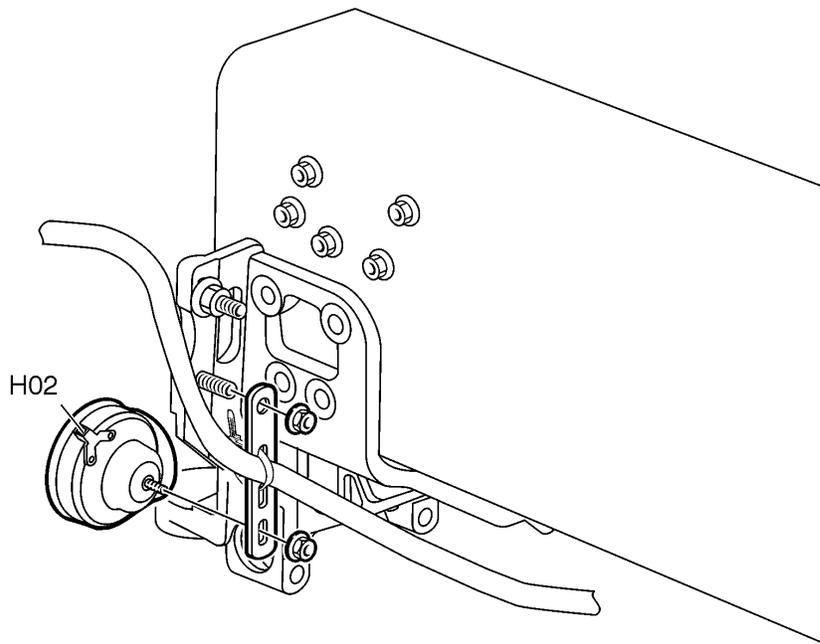
W3005910

Horn

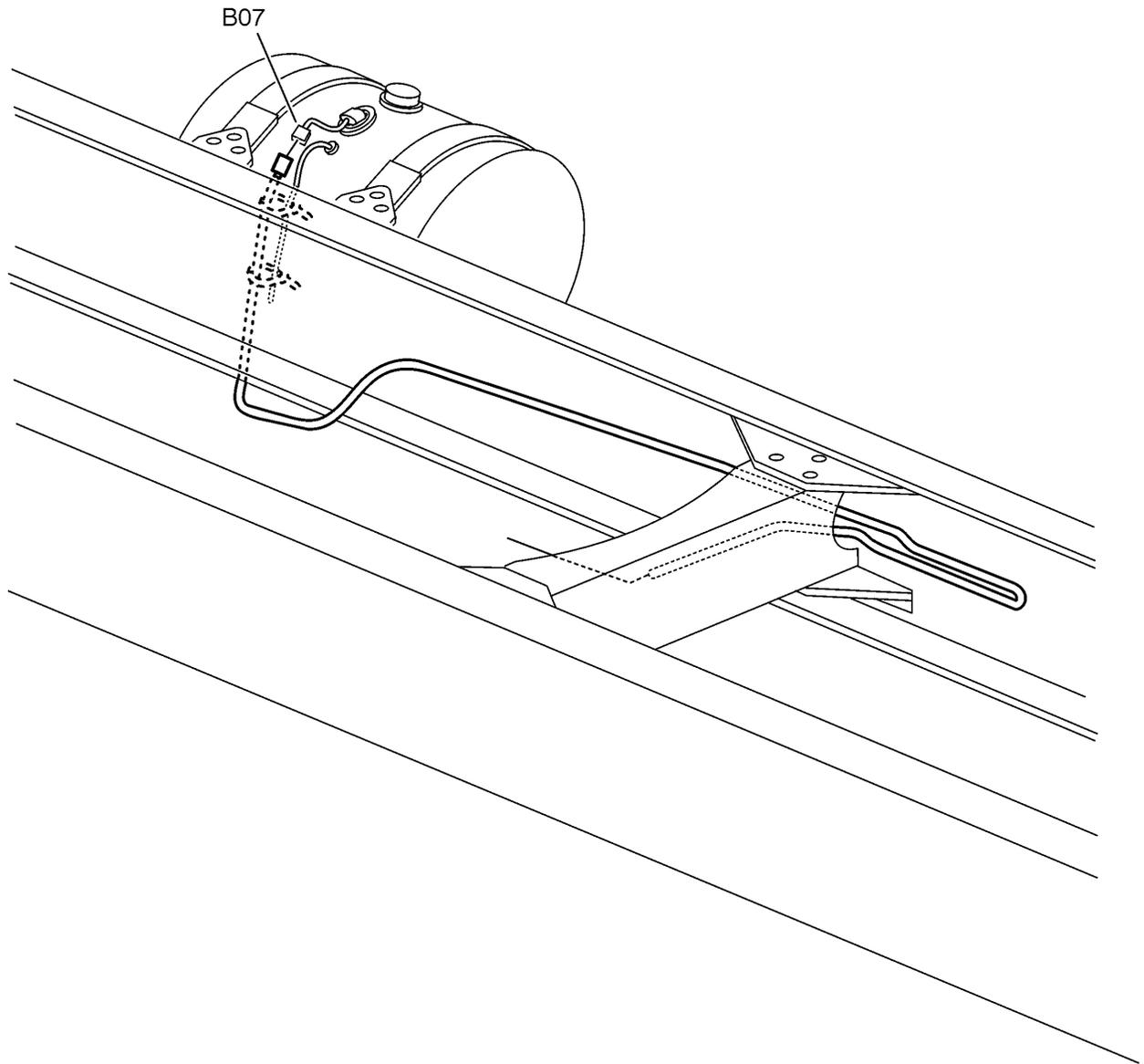
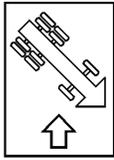


VN

VHD

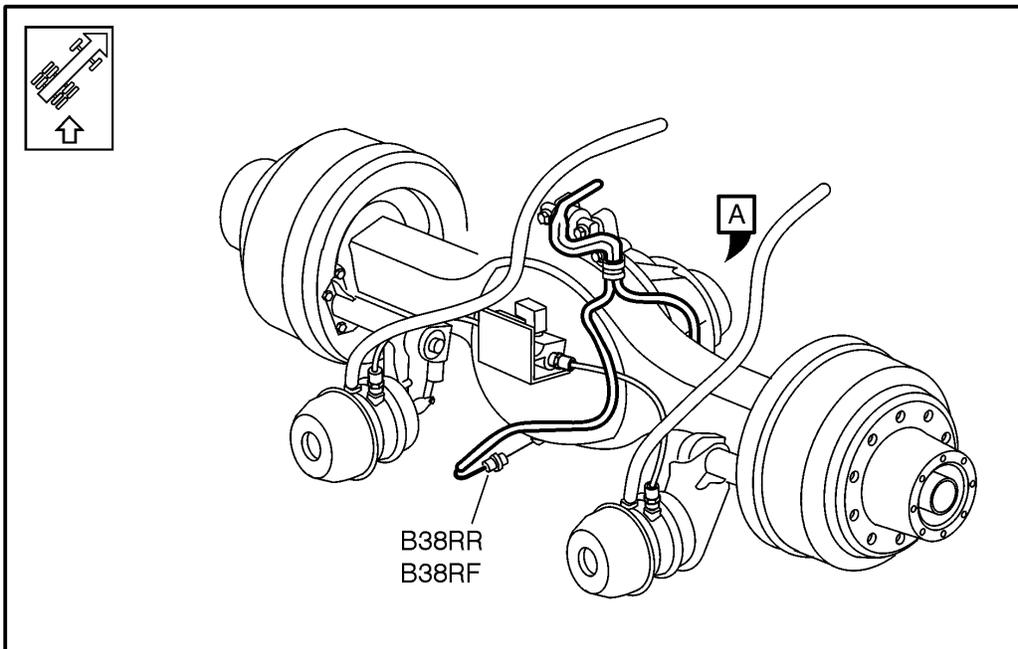
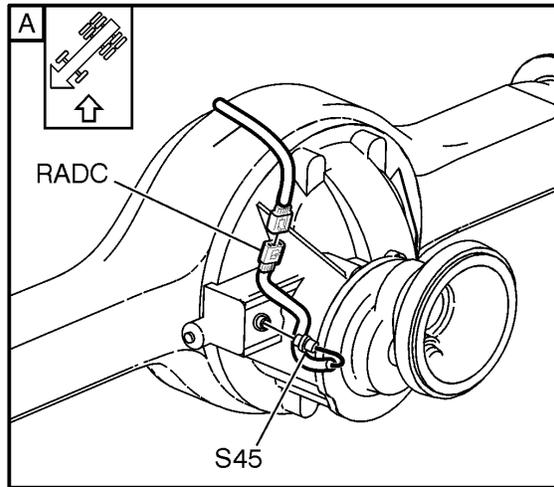


Fuel Level Sensor

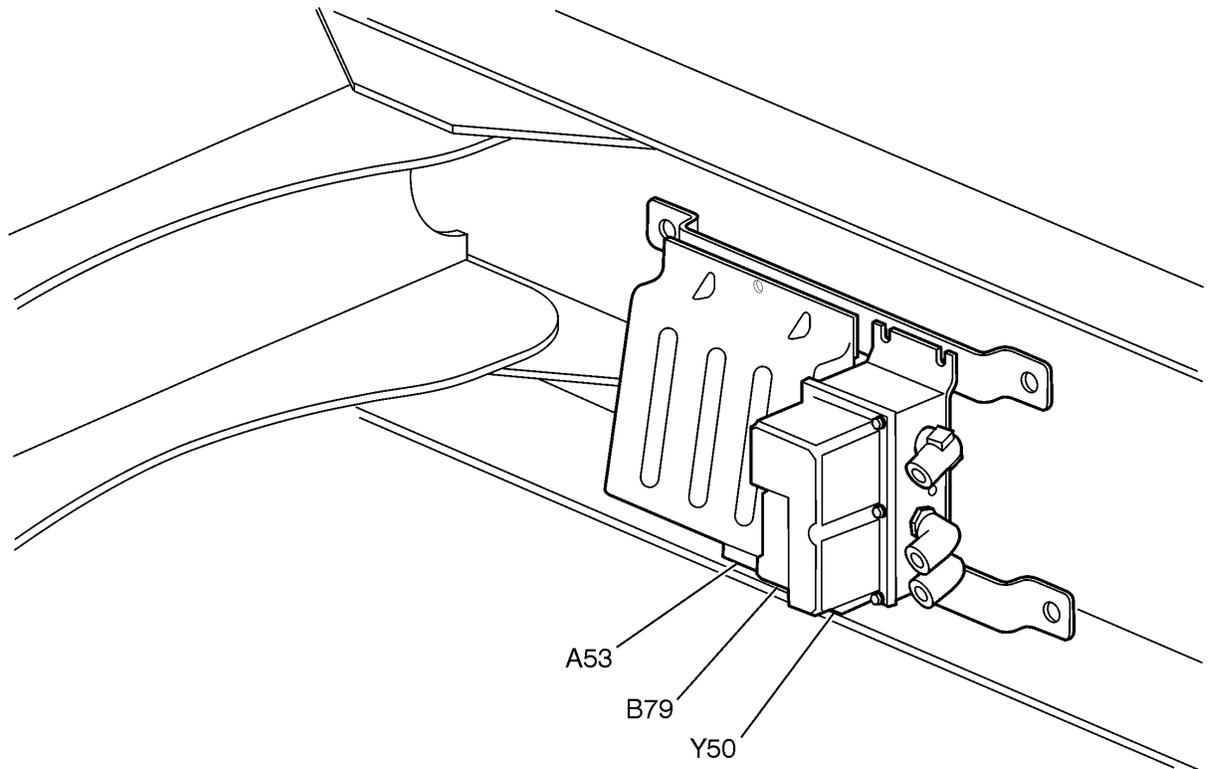


W3005909

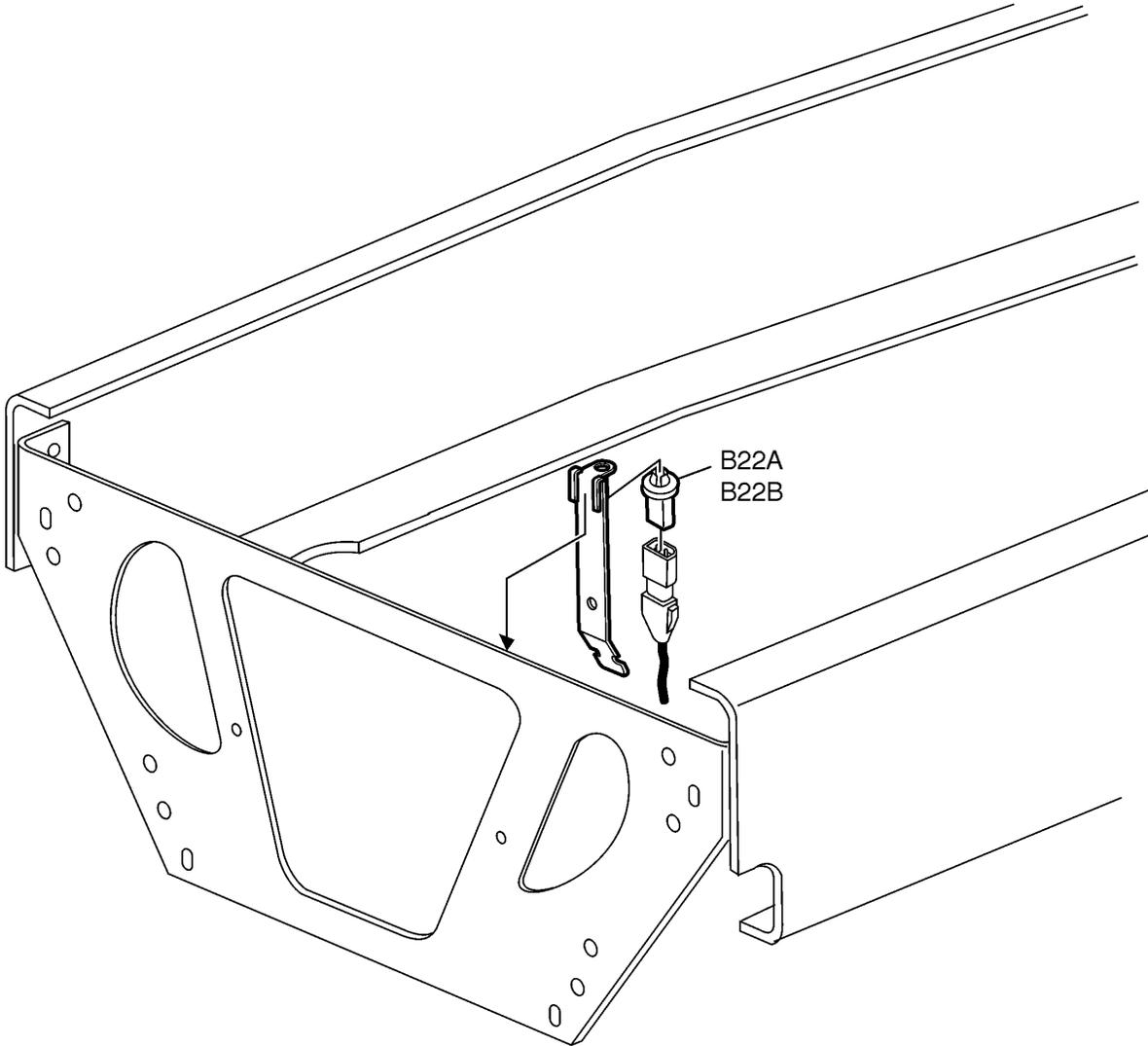
Differential Lock/Axle Temperature



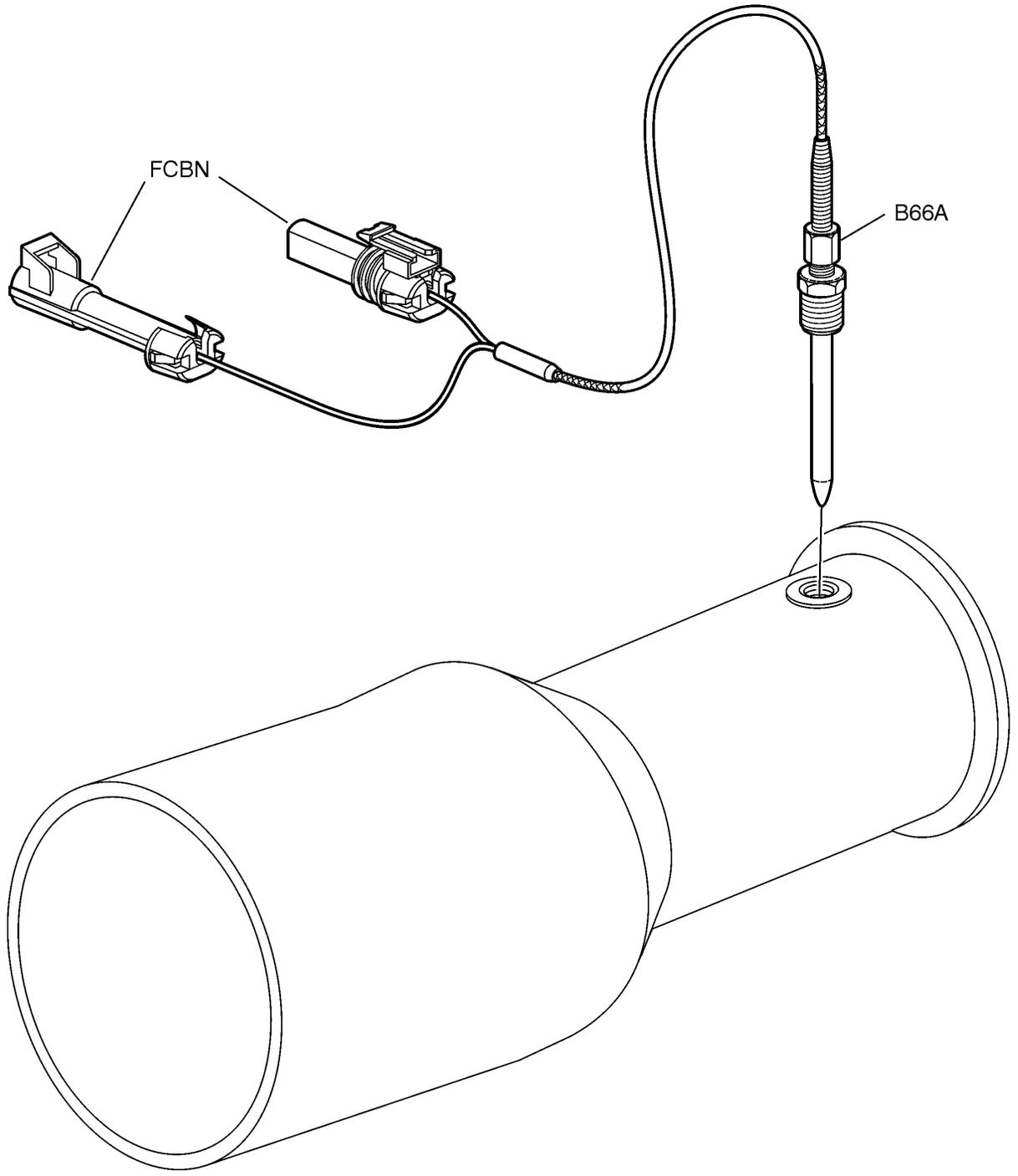
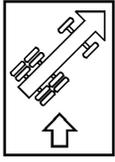
Central Tire Inflation System



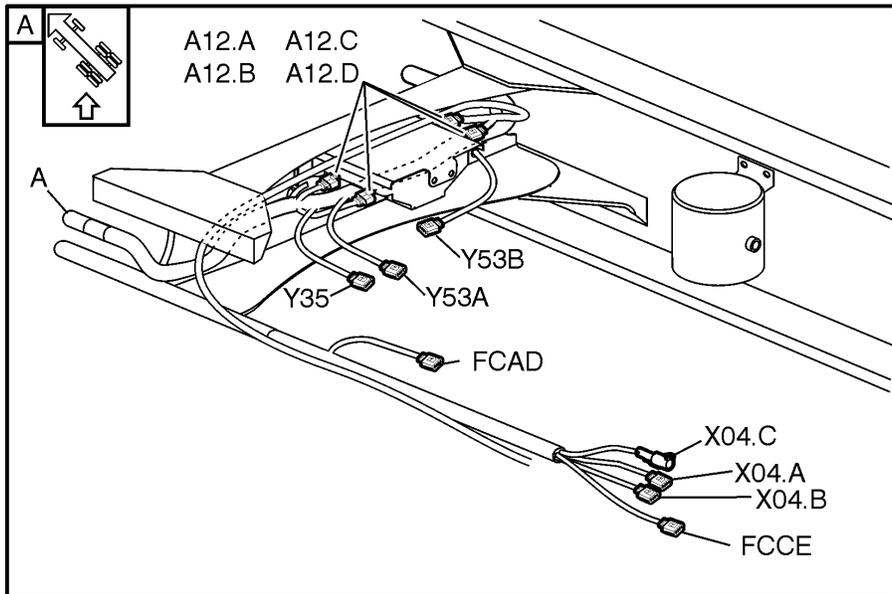
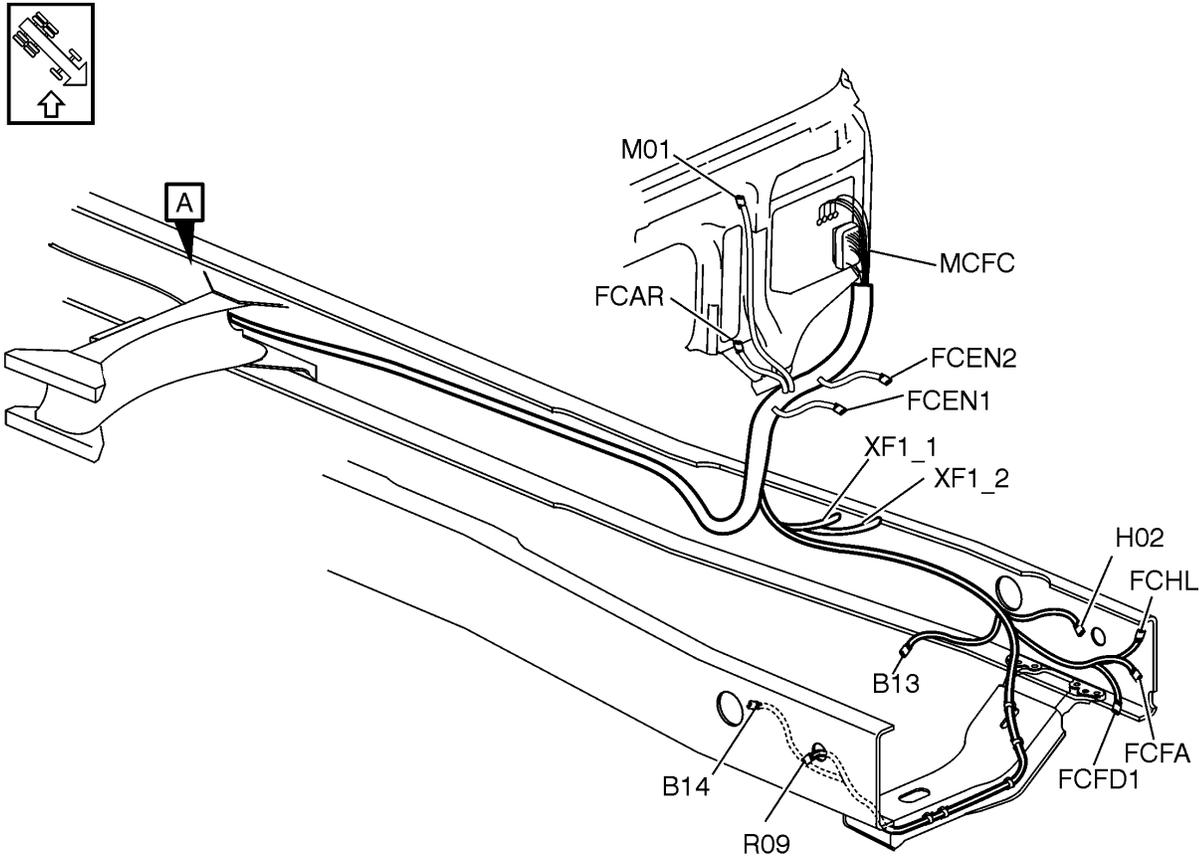
Ambient Temperature Sensor



Pyrometer Sensor

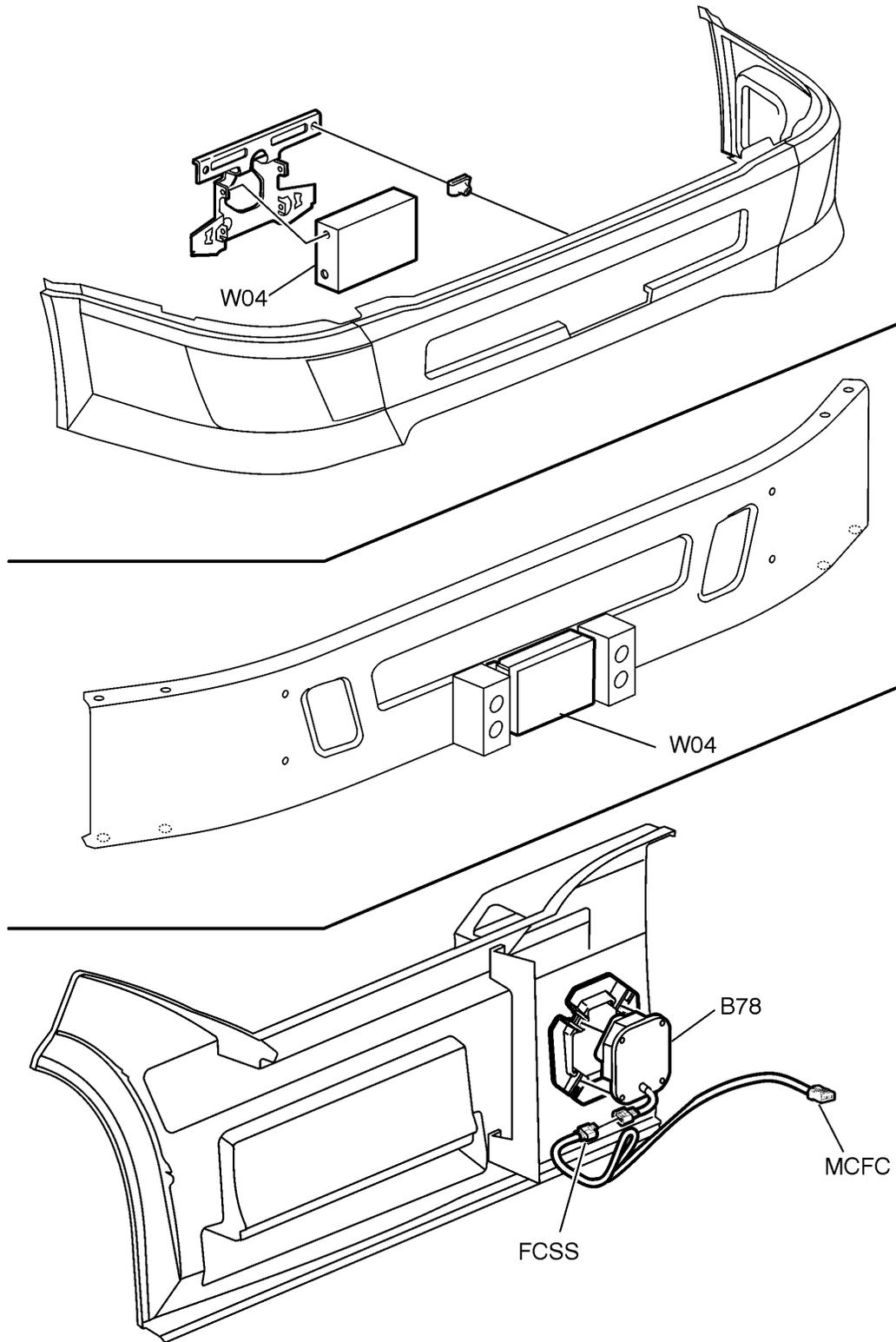


Chassis Harness



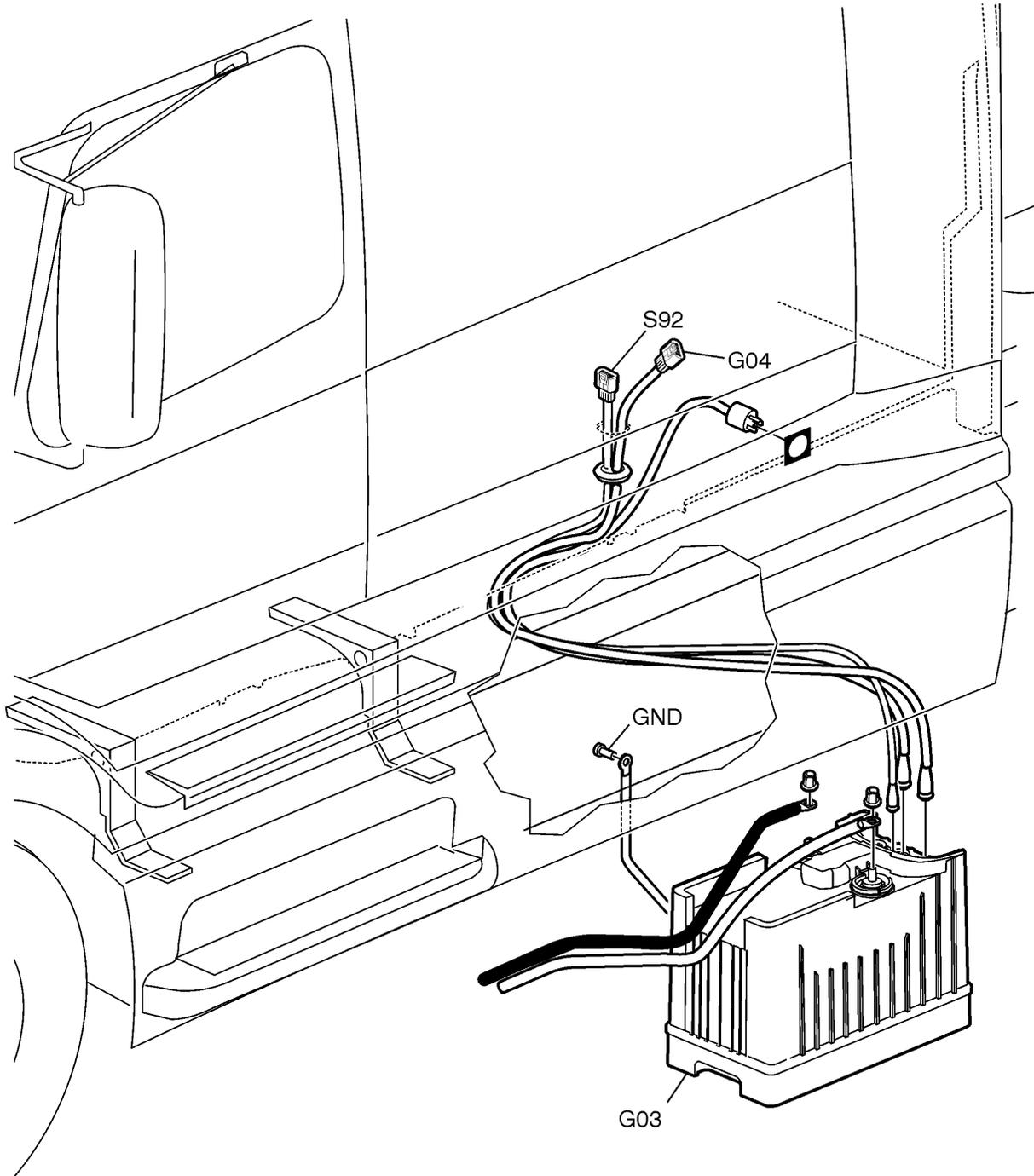
W3006628

VORAD Antennas



W3006636

Inverter



W3006629

Reference

Reference List: Fuses

Fuse	Circuit	Schematic
F1	DCP power /power mirror	{IC 2 A} Fig. 59: IC page 64 {AB 3 D} Fig. 2: AB page 7 {ID 3 A} Fig. 60: ID page 65
F2	Radio without Icon / Amp.	{KA 0 A} Fig. 67: KA page 72 {KB 2 A} Fig. 68: KB page 73 {KC 0 A} Fig. 69: KC page 74 {AB 3 D} Fig. 2: AB page 7
F3	Driver window/ heated mirrors	{IC 1 A} Fig. 59: IC page 64 {AB 3 D} Fig. 2: AB page 7 {ID 2 A} Fig. 60: ID page 65
F4	RH Window	{IC 3 A} Fig. 59: IC page 64 {AB 3 D} Fig. 2: AB page 7 {ID 1 A} Fig. 60: ID page 65
F5	Steering Wheel Module (SWM)	{JC 0 A} Fig. 66: JC page 71 {AB 3 D} Fig. 2: AB page 7
F6	Accessory expansion	{AB 4 D} Fig. 2: AB page 7
F7	Not Used	{AB 4 D} Fig. 2: AB page 7
F8	LCM1	{GB 2 A} Fig. 40: GB page 45 {AB 3 C} Fig. 2: AB page 7
F9	Trailer Marker Relay	{MA 0 A} Fig. 70: MA page 75 {AB 3 C} Fig. 2: AB page 7
F10	LCM2	{GB 2 B} Fig. 40: GB page 45 {AB 3 C} Fig. 2: AB page 7
F11	Battery Expansion/ Volvo Link	{BF 1 A} Fig. 10: BF page 15 {BH 0 A} Fig. 12: BH page 17 {AB 3 C} Fig. 2: AB page 7 {BK 2 A} Fig. 15: BK page 20
F12	Road Relay/Battery Expansion	{BH 1 A} Fig. 12: BH page 17 {AB 4 C} Fig. 2: AB page 7
F13	Diagnostic Tool	{XA 2 A} Fig. 72: XA page 77 {AB 4 C} Fig. 2: AB page 7

Fuse	Circuit	Schematic
F14	Qualcom	{BE 0 B} Fig. 9: BE page 14 {AB 4 C} Fig. 2: AB page 7
F15	Key B+	{AB 1 B} Fig. 2: AB page 7
F16	Key 30	{AB 2 B} Fig. 2: AB page 7
F17	LCM3	{GB 3 A} Fig. 40: GB page 45 {AB 2 B} Fig. 2: AB page 7
F18	Trailer park relay	{GB 1 A} Fig. 40: GB page 45 {AB 2 B} Fig. 2: AB page 7
F19	Lightning transmission (battery)	{DC 0 A} Fig. 26: DC page 31 {AB 2 B} Fig. 2: AB page 7
F20	Battery protection / Beacon lamps	{HB 1 A} Fig. 51: HB page 56 {GI 3 A} Fig. 47: GI page 52 {AB 2 B} Fig. 2: AB page 7 {CU 1 A} Fig. 24: CU page 29
F21	Cummins Engine DR	{CC 1 B} Fig. 18: CC page 23 {CI 3 B} Fig. 22: CI page 27
F22	Fuel filter	{AA 1 E} Fig. 1: AA page 6 {CE 2 A} Fig. 19: CE page 24
F23	Climate Control ignition	{AA 1 E} Fig. 1: AA page 6 {HA 0 B} Fig. 50: HA page 55
F24	Instrument cluster	{AA 2 E} Fig. 1: AA page 6 {BC 0 A} Fig. 7: BC page 12
F25	Heated seat	{AA 2 E} Fig. 1: AA page 6 {IB 1 A} Fig. 58: IB page 63
F26	Windshield wiper	{AA 2 E} Fig. 1: AA page 6 {GP 0 A} Fig. 48: GP page 53
F27	Interaxle Lock	{AA 2 E} Fig. 1: AA page 6 {FD 3 A} Fig. 37: FD page 42
F28	Interwheel Lock	{AA 2 E} Fig. 1: AA page 6 {FD 1 A} Fig. 37: FD page 42
F29	Camera Prep / Body Builder Ignition Z	{AA 2 D} Fig. 1: AA page 6 {BG 1 A} Fig. 11: BG page 16
F30	LH Power Seat	{AA 2 D} Fig. 1: AA page 6 {IB 0 A} Fig. 58: IB page 63
F31	RH Power Seat	{AA 2 D} Fig. 1: AA page 6 {IB 1 A} Fig. 58: IB page 63

Fuse	Circuit	Schematic
F32	Ignition Expansion	{AA 3 D} Fig. 1: AA page 6 {BJ 2 A} Fig. 14: BJ page 19 {BK 2 A} Fig. 15: BK page 20
F33	Snow plow lamps LH	{AA 3 D} Fig. 1: AA page 6 {GI 1 A} Fig. 47: GI page 52
F34	Central tire inflation	{AA 3 D} Fig. 1: AA page 6 {FE 1 A} Fig. 38: FE page 43
F35	Snow plow lamps RH	{AA 3 D} Fig. 1: AA page 6 {GI 1 A} Fig. 47: GI page 52
F36	Cigar 12V Outlet	{AA 0 D} Fig. 1: AA page 6 {IF 0 A} Fig. 62: IF page 67
F37	Dome/Door Lamps	{AA 0 D} Fig. 1: AA page 6 {IA 1 A} Fig. 57: IA page 62
F38	Not Used	{AA 0 D} Fig. 1: AA page 6
F39	CB	{AA 1 D} Fig. 1: AA page 6 {IF 3 A} Fig. 62: IF page 67
F40	ECS	{AA 1 D} Fig. 1: AA page 6 {EB 4 A} Fig. 33: EB page 38
F41	Air Horn	{AA 1 D} Fig. 1: AA page 6 {GQ 2 A} Fig. 49: GQ page 54
F42	LCM5	{AA 0 D} Fig. 1: AA page 6 {GB 3 B} Fig. 40: GB page 45
F43	Trailer Stop Relay	{AA 0 D} Fig. 1: AA page 6 {GB 2 A} Fig. 40: GB page 45
F44	LCM6	{AA 0 D} Fig. 1: AA page 6 {GB 3 A} Fig. 40: GB page 45
F45	City Horn	{AA 0 D} Fig. 1: AA page 6 {GQ 0 A} Fig. 49: GQ page 54
F46	Radio/Cluster Battery	{AA 1 D} Fig. 1: AA page 6 {BC 0 A} Fig. 7: BC page 12 {KA 1 A} Fig. 67: KA page 72 {KB 2 A} Fig. 68: KB page 73 {KC 1 A} Fig. 69: KC page 74
F47	Climate Control	{AA 1 D} Fig. 1: AA page 6 {HA 0 A} Fig. 50: HA page 55
F48	Central Locks	{AA 1 D} Fig. 1: AA page 6 {IE 1 A} Fig. 61: IE page 66

Fuse	Circuit	Schematic
F49	AUX1	{AA 0 E} Fig. 1: AA page 6 {NA 0 A} Fig. 71: NA page 76
F50	AUX2	{AA 0 E} Fig. 1: AA page 6 {NA 1 A} Fig. 71: NA page 76
F51	AUX3	{AA 0 E} Fig. 1: AA page 6 {GC 2 A} Fig. 41: GC page 46 {NA 2 B} Fig. 71: NA page 76
F52	Battery protection status	{AA 0 E} Fig. 1: AA page 6 {HB 1 A} Fig. 51: HB page 56
F53	12V Outlet Ovh.	{AA 1 E} Fig. 1: AA page 6 {IF 2 A} Fig. 62: IF page 67
F54	Battery expansion	{AA 1 E} Fig. 1: AA page 6 {GC 2 A} Fig. 41: GC page 46 {BK 2 A} Fig. 15: BK page 20
F55	-	
F56	Air dryer	{FA 2 A} Fig. 34: FA page 39 {AB 0 E} Fig. 2: AB page 7
F57	SRS	{JA 1 B} Fig. 64: JA page 69 {AB 0 E} Fig. 2: AB page 7
F58	Lift Axles / Body builder reverse	{FB 0 A} Fig. 35: FB page 40 {AB 0 E} Fig. 2: AB page 7
F59	Qualcomm / Inside/Outside Air	{BE 1 B} Fig. 9: BE page 14 {CH 2 A} Fig. 21: CH page 26 {AB 1 E} Fig. 2: AB page 7
F60	Road Relay / Body Builder Ign-Y/Ing. Exp.	{BG 1 A} Fig. 11: BG page 16 {BH 1 A} Fig. 12: BH page 17 {AB 1 E} Fig. 2: AB page 7
F61	ABS1	{EA 2 A} Fig. 32: EA page 37 {AB 1 E} Fig. 2: AB page 7
F62	ABS2	{EA 2 A} Fig. 32: EA page 37 {AB 1 E} Fig. 2: AB page 7
F63	Susp. Dump	{FC 1 A} Fig. 36: FC page 41 {AB 2 E} Fig. 2: AB page 7
F64	5th Wheel Slide	{FC 2 A} Fig. 36: FC page 41 {AB 2 E} Fig. 2: AB page 7

Fuse	Circuit	Schematic
F65	Light Control Module / Light Control Panel	{GA 1 A} Fig. 39: GA page 44 {AB 2 E} Fig. 2: AB page 7
F66	Body Builder Ign-X	{BG 0 A} Fig. 11: BG page 16 {AB 2 E} Fig. 2: AB page 7
F67	VED16 Coolant Pump	{AB 3 E} Fig. 2: AB page 7
F68	Central lock Ign.	{IE 1 A} Fig. 61: IE page 66 {AB 3 E} Fig. 2: AB page 7
F69	Ign Expansion/ Volvo Link	{BF 1 A} Fig. 10: BF page 15 {BH 1 A} Fig. 12: BH page 17 {AB 3 E} Fig. 2: AB page 7
F70	Vorad/ECS	{AA 2 D} Fig. 1: AA page 6 {JB 2 A} Fig. 65: JB page 70 {EB 3 A} Fig. 33: EB page 38
F71	DR Spare	{AA 2 D} Fig. 1: AA page 6
F72	Gearbox	{AA 3 D} Fig. 1: AA page 6 {DB 0 A} Fig. 25: DB page 30 {DC 0 A} Fig. 26: DC page 31 {DD 1 A} Fig. 27: DD page 32 {DG 1 A} Fig. 30: DG page 35 {DF 1 B} Fig. 29: DF page 34
F73	ICON	{AA 3 D} Fig. 1: AA page 6 {CU 2 A} Fig. 24: CU page 29
F74	Radio with Icon / Amp.	{AA 3 D} Fig. 1: AA page 6
F75	PTO/ Dual PTO	{AA 3 D} Fig. 1: AA page 6 {DP 2 A} Fig. 31: DP page 36
F76	Engine Brake	{AA 3 D} Fig. 1: AA page 6 {CF 2 A} Fig. 20: CF page 25
F77	Allison DR	{DF 3 B} Fig. 29: DF page 34
F78	Allison Battery	{DF 0 B} Fig. 29: DF page 34
F79	EMS A	{BA 0 A} Fig. 5: BA page 10
F80	EMS B/ Deairation Sw.	{BA 1 A} Fig. 5: BA page 10
F81	EMS System/VECU	{BA 0 A} Fig. 5: BA page 10
F82	Body Builder module	{BA 0 A} Fig. 5: BA page 10

Fuse	Circuit	Schematic
F90	Fuel Sink pump	{HE 0 C} Fig. 54: HE page 59
F91	Not used	
F92	Interior Lamps	{HF 2 B} Fig. 55: HF page 60
FB01	FUSE, BATTERY 1, EMS	{BA 0 D} Fig. 5: BA page 10
FB02	FUSE, BATTERY 2, EMS	{CC 2 C} Fig. 18: CC page 23 {CI 1 A} Fig. 22: CI page 27
FB02A	FUSE, BATTERY Temp A Start	{CU 2 B} Fig. 24: CU page 29
FB03	FUSE, BATTERY 1 TRANSMISSION	{DB 4 B} Fig. 25: DB page 30 {DG 0 C} Fig. 30: DG page 35 {DF 3 D} Fig. 29: DF page 34
FB04	FUSE, BATTERY 2 TRANSMISSION	{DF 3 D} Fig. 29: DF page 34
FB05	FUSE, BATTERY ISX	{BA 0 D} Fig. 5: BA page 10

Reference List: Relays

Relay	Circuit	Schematic
RLY01	RELAY, DR	{AA 2 C} Fig. 1: AA page 6
RLY02	RELAY, TRAILER PARKING	{GB 1 B} Fig. 40: GB page 45
RLY03	RELAY, TRAILER STOP	{GB 2 B} Fig. 40: GB page 45
RLY04	RELAY, EMS	{BA 0 B} Fig. 5: BA page 10
RLY05	RELAY, LIFT AXLE / REVERSE SIGNAL	{FB 3 B} Fig. 35: FB page 40
RLY05A	RELAY, Temp. A Start DR	{CU 1 D} Fig. 24: CU page 29
RLY06A	RELAY, Temp. A Start IGN	{CU 2 D} Fig. 24: CU page 29
RLY07	RELAY, PTO	{DP 1 B} Fig. 31: DP page 36
RLY09	RELAY TRAILER MARKER	{MA 0 B} Fig. 70: MA page 75
RLY10	RELAY, CITY HORN	{GQ 0 C} Fig. 49: GQ page 54
RLY11	RELAY, DOME / DOOR LAMPS	{IE 1 C} Fig. 61: IE page 66
RLY12	RELAY, INTERMITTENT WIPER	{GP 0 B} Fig. 48: GP page 53
RLY13	RELAY, AUTOSHIFT	{DB 1 B} Fig. 25: DB page 30
RLY13_1	RELAY, ALLISON START ENABLE	{DF 0 B} Fig. 29: DF page 34
RLY14	RELAY, ALLISON AUTONEUTRAL	{DF 1 B} Fig. 29: DF page 34
RLY14_1	RELAY, Park Brake TAS	{CU 1 A} Fig. 24: CU page 29
RLY15	RELAY, ALLISON POWER	{DF 1 B} Fig. 29: DF page 34
RLY16	RELAY, BODY BUILDER REMOTE THROTTLE INC	{BA 3 C} Fig. 5: BA page 10
RLY17	RELAY, BODY BUILDER REMOTE THROTTLE DEC	{BA 3 B} Fig. 5: BA page 10
RLY18	RELAY, ALLISON SERVICE BRAKE INPUT	{DF 2 B} Fig. 29: DF page 34
RLY20	RELAY, ALLISON BODY BUILDERER1	{DF 2 B} Fig. 29: DF page 34
RLY21	RELAY, ALLISON BODY BUILDERER2	{DF 3 B} Fig. 29: DF page 34
RLY26	SNOWPLOW LH ER8	{GI 1 C} Fig. 47: GI page 52
RLY27	SNOWPLOW RH ER9	{GI 0 C} Fig. 47: GI page 52
RLY28	SNOWPLOW LCM INPUTER7	{GI 2 C} Fig. 47: GI page 52
RLY29	POWER RELAY 1 BATTERY	{AA 1 C} Fig. 1: AA page 6
RLY30	POWER RELAY 2 IGNITION	{AA 1 C} Fig. 1: AA page 6
RLY31	POWER RELAY 3 IGNITION	{AB 1 D} Fig. 2: AB page 7
RLY32	POWER RELAY 4 ACCESSORY	{AB 1 D} Fig. 2: AB page 7
RLY33	Relay, ER9 Motorized Mirror IN	{ID 3 C} Fig. 60: ID page 65
RLY33A	Relay, ER8 Motorized Mirror OUT	{ID 3 C} Fig. 60: ID page 65
RLY34	ER8 ECS Power	{EB 3 B} Fig. 33: EB page 38
RLY35	MEIIR ER3	{DB 3 B} Fig. 25: DB page 30 {DB 2 B} Fig. 25: DB page 30
RLY36	Relay, ER7 Power Window "UP"	{ID 1 C} Fig. 60: ID page 65
RLY37	Relay, ER6 Power Window "DOWN"	{ID 0 C} Fig. 60: ID page 65
RLY38	Roof Marker Lamps ER2	{GC 2 B} Fig. 41: GC page 46
RLY39	Relay Sleeper HVAC On Harness	{HG 3 B} Fig. 56: HG page 61
RLY40	RELAY STARTER MOTOR	{AD 0 C} Fig. 4: AD page 9 {AD 1 B} Fig. 4: AD page 9
RLY41	RELAY, PARK BRAKE	{HB 4 C} Fig. 51: HB page 56

Relay	Circuit	Schematic
RLY42	RELAY ENGINE PREHEAT	{CB 2 B} Fig. 17: CB page 22
RLY43	Relay, Shunt	{AA 0 C} Fig. 1: AA page 6
RLY44	Relay, Battery Protection ER8	{HB 1 D} Fig. 51: HB page 56

Reference List: Components

Component # and Description		Location
A03A	INSTRUMENT CLUSTER A	{BC 0 C} Fig. 7: BC page 12
A03B	INSTRUMENT CLUSTER B	{BC 2 C} Fig. 7: BC page 12
A03C	INSTRUMENT CLUSTER C	{BD 0 C} Fig. 7: BC page 12
A03S	Secondary Gauges	{BK 1 B} Fig. 15: BK page 20
A04	REFRIGERATOR	{HD 0 B} Fig. 53: HD page 58 {HE 1 C} Fig. 54: HE page 59
A04A	REFRIGERATOR	{HE 1 D} Fig. 54: HE page 59
A07A	RADIO	{KA 0 C} Fig. 67: KA page 72
A07B	RADIO	{KB 2 B} Fig. 68: KB page 73
A07C	RADIO	{KC 1 B} Fig. 69: KC page 74
A07D	RADIO	{JC 1 C} Fig. 66: JC page 71
A08	Control unit, GPS receiver, (Global Positioning System)	{BF 1 C} Fig. 10: BF page 15
A12	Control unit, ABS (Anti-lock Brake System)	{EA 2 C} Fig. 32: EA page 37
A13L	CONTROL UNIT LIGHTNING TRANSMISSION	{DC 0 C} Fig. 26: DC page 31
A13M	CONTROL UNIT MERITOR TRANSMISSION	{DD 1 C} Fig. 27: DD page 32
A14A	CONTROL UNIT, EMS (Engine Management System)	{CB 0 D} Fig. 17: CB page 22
A14B	CONTROL UNIT, EMS, CUMMINS ISX	{CC 0 D} Fig. 18: CC page 23
A14E	CONTROL UNIT, ISX 2000 W/O ICON	{CI 1 D} Fig. 22: CI page 27
A14F	CONTROL UNIT, Temp. A Start	{CU 1 C} Fig. 24: CU page 29
A15	Control unit, SRS (Supplementary Restrain System)	{JA 1 C} Fig. 64: JA page 69
A07C	RADIO	{KC 1 B} Fig. 69: KC page 74
A16	Control unit, ECS (Electronic Controlled Air Suspension)	{EB 0 C} Fig. 33: EB page 38

Component # and Description		Location
A17	Control unit, VECU (Vehicle ECU)	{BA 1 D} Fig. 5: BA page 10 {BB 0 A} Fig. 6: BB page 11 {CF 3 E} Fig. 20: CF page 25 {CF 3 C} Fig. 20: CF page 25 {CF 3 E} Fig. 20: CF page 25 {CF 2 C} Fig. 20: CF page 25 {CF 1 C} Fig. 20: CF page 25
A19D	CONTROL UNIT, GECU (GEAR SELECTOR ECU) ALLISON TRANSMISSION	{DE 1 B} Fig. 28: DE page 33
A27	LIGHT CONTROL MODULE	{GA 3 C} Fig. 39: GA page 44 {GG 0 A} Fig. 45: GG page 50 {GB 0 C} Fig. 40: GB page 45
A30	CONTROL UNIT, SWC (STEERING WHEEL CONTROL)	{JC 1 C} Fig. 66: JC page 71
A34	Control unit, climate unit	{HA 2 B} Fig. 50: HA page 55
A35	Control unit, remote receiver, door lock	{IE 3 B} Fig. 61: IE page 66
A36	Control unit, BBM (Body Builder Module)	{BI 0 C} Fig. 13: BI page 18
A38	Control unit, FMS, satellite communication	{BE 1 C} Fig. 9: BE page 14
A43	Electronic Fan Control (Including B32, Y35)	{CO 4 B} Fig. 23: CO page 28
A44	Fuel Filter Bracket (Including M15, B51)	{CO 2 B} Fig. 23: CO page 28
A46	Control unit, LECM (Living Environment Control Module)	{HD 3 A} Fig. 53: HD page 58 {HB 3 B} Fig. 51: HB page 56 {HE 2 A} Fig. 54: HE page 59
A48	TV	{KC 0 C} Fig. 69: KC page 74
A50	CPU, Vorad	{JB 2 C} Fig. 65: JB page 70
A51	Display, Side Sensor Vorad	{JB 1 E} Fig. 65: JB page 70
A52	Display, CTI (Central Tire Inflation)	{FE 2 B} Fig. 38: FE page 43
A53	Control unit, CTI (Central Tire Inflation)	{FE 0 C} Fig. 38: FE page 43
A54	Control Unit, Coolant Level	{CC 0 E} Fig. 18: CC page 23 {CI 0 D} Fig. 22: CI page 27

Component # and Description		Location
A55	AUTOSHIFT II TRANSMISSION	{DB 3 D} Fig. 25: DB page 30
A56	Stereo amplifier	{KC 0 C} Fig. 69: KC page 74
A57	CONTROL UNIT, ALLISON TRANSMISSION	{DE 3 C} Fig. 28: DE page 33 {DF 0 D} Fig. 29: DF page 34
A58	ALLISON TRANSMISSION	{DE 0 E} Fig. 28: DE page 33
A66	DISPLAY, AUTOSHIFT	{DB 1 C} Fig. 25: DB page 30
A67	DISPLAY DRIVER VORAD	{JB 0 A} Fig. 65: JB page 70
A68	MERITOR FREEDOMLINE	{DG 0 E} Fig. 30: DG page 35
A69	SHIFT MODULE	{DG 1 B} Fig. 30: DG page 35
A70	Shift module Autoshift II	{DB 0 D} Fig. 25: DB page 30
B02A	THERMOSTAT, SLEEPER CONTROL #1	{HG 2 B} Fig. 56: HG page 61
B02B	THERMOSTAT, SLEEPER CONTROL #2	{CU 3 C} Fig. 24: CU page 29
B04	Sensor, engine speed, crankshaft	{CO 1 D} Fig. 23: CO page 28 {DE 3 D} Fig. 28: DE page 33
B05	Sensor, engine speed, camshaft	{CO 1 D} Fig. 23: CO page 28
B06A	SENSOR AIR PRESSURE TANK A	{BC 3 D} Fig. 7: BC page 12
B06AP	SENSOR AIR PRESSURE BRAKE APPLICATION	{BC 2 D} Fig. 7: BC page 12
B06B	SENSOR AIR PRESSURE TANK B	{BC 3 D} Fig. 7: BC page 12
B07	SENSOR FUEL LEVEL	{BC 2 D} Fig. 7: BC page 12
B08	Sensor, gearbox speed	{FE 1 D} Fig. 38: FE page 43
B09	SENSOR OIL TEMP GEARBOX	{BC 4 B} Fig. 7: BC page 12
B10	Sensor, oil level	{CO 1 D} Fig. 23: CO page 28
B13	Sensor, wheel speed, lhs. 1:st front axle	{EA 1 B} Fig. 32: EA page 37
B14	Sensor, wheel speed, rhs. 1:st front axle	{EA 1 B} Fig. 32: EA page 37
B15	Sensor, wheel speed, lhs. 1:st driven rear axle	{EA 0 D} Fig. 32: EA page 37

Component # and Description		Location
B16	Sensor, wheel speed, rhs. 1:st driven rear axle	{EA 0 D} Fig. 32: EA page 37
B17	Sensor, wheel speed, lhs., 2:nd driven rear axle	{EA 2 D} Fig. 32: EA page 37
B18	Sensor, wheel speed, rhs., 2:nd driven rear axle	{EA 3 D} Fig. 32: EA page 37
B21	Sensor, coolant temperature, engine	{CO 0 B} Fig. 23: CO page 28
B22B	SENSOR AMBIENT AIR TEMP.	{BC 3 A} Fig. 7: BC page 12
B25	Sensor, accelerator pedal	{BB 4 C} Fig. 6: BB page 11
B30A	Sensor, chassis level, drive axle	{EB 2 D} Fig. 33: EB page 38
B32	Sensor, engine cooling, fan speed	{CO 4 B} Fig. 23: CO page 28
B37	Sensor, boost pressure and boost temperature	{CO 0 D} Fig. 23: CO page 28
B38	Sensor, oil pressure and oil temperature	{CO 0 D} Fig. 23: CO page 28
B38RF	SENSOR OIL TEMP REAR FRONT AXLE	{BC 3 B} Fig. 7: BC page 12
B38RR	SENSOR OIL TEMP REAR REAR AXLE	{BC 3 B} Fig. 7: BC page 12
B39	SENSOR AIR RESTRICTION	{BD 1 B} Fig. 8: BD page 13
B51	Sensor, fuel pressure	{CO 2 B} Fig. 23: CO page 28
B53B	Sensor, Ambient Temp. Temp A Start	{CU 4 B} Fig. 24: CU page 29
B54	Sensor, crank case pressure	{CO 1 B} Fig. 23: CO page 28
B55A	Sensor, Air Pressure, Suspension	{EB 0 D} Fig. 33: EB page 38
B56	Sensor, Air Pressure, Suspension Spring, Front Axle	{BC 2 B} Fig. 7: BC page 12
B58A	Sensor, Air Pressure, Suspension Spring, Drive Axle	{EB 1 D} Fig. 33: EB page 38
B58R	Sensor, Air Pressure, Rear Suspension	{BC 2 D} Fig. 7: BC page 12
B59	Sensor, Indoor Temp.	{HA 2 B} Fig. 50: HA page 55
B60A	SPEAKER LEFT DASH	{KA 2 D} Fig. 67: KA page 72 {KB 3 D} Fig. 68: KB page 73 {KC 1 D} Fig. 69: KC page 74

Component # and Description		Location
B60B	SPEAKER RIGHT DASH	{KA 2 D} Fig. 67: KA page 72 {KB 2 D} Fig. 68: KB page 73 {KC 2 D} Fig. 69: KC page 74
B60C	SPEAKER LEFT DOOR	{KA 0 D} Fig. 67: KA page 72 {KB 3 D} Fig. 68: KB page 73 {KC 0 D} Fig. 69: KC page 74
B60D	SPEAKER RIGHT DOOR	{KA 1 D} Fig. 67: KA page 72 {KB 2 D} Fig. 68: KB page 73 {KC 0 D} Fig. 69: KC page 74
B60E	SPEAKER LEFT UPPER	{KB 0 D} Fig. 68: KB page 73 {KC 2 B} Fig. 69: KC page 74
B60F	SPEAKER RIGHT UPPER	{KB 0 D} Fig. 68: KB page 73 {KC 3 B} Fig. 69: KC page 74
B60G	SPEAKER LEFT LOWER	{KC 2 D} Fig. 69: KC page 74
B60H	SPEAKER RIGHT LOWER	{KC 2 D} Fig. 69: KC page 74
B60I	SPEAKER SUBWOOFER	{KC 3 D} Fig. 69: KC page 74
B60J	SPEAKER LEFT UPPER	{KB 1 D} Fig. 68: KB page 73
B60K	SPEAKER RIGHT UPPER	{KB 1 D} Fig. 68: KB page 73
B60L_H2	SPEAKER LEFT REAR	{KB 0 B} Fig. 68: KB page 73
B60L_H4	SPEAKER LEFT REAR	{KB 0 C} Fig. 68: KB page 73
B60M_H2	SPEAKER RIGHT REAR	{KB 0 B} Fig. 68: KB page 73
B60M_H4	SPEAKER RIGHT REAR	{KB 0 C} Fig. 68: KB page 73
B61A	TWEETER LEFT DASH	{KA 2 D} Fig. 67: KA page 72 {KB 3 D} Fig. 68: KB page 73 {KC 0 D} Fig. 69: KC page 74
B61B	TWEETER RIGHT DASH	{KA 1 D} Fig. 67: KA page 72 {KB 1 D} Fig. 68: KB page 73 {KC 1 D} Fig. 69: KC page 74

Component # and Description		Location
B62	Socket, TV Headphone	{KC 0 C} Fig. 69: KC page 74
B65	Sensor, EGR valve position	{CO 1 B} Fig. 23: CO page 28
B66	Sensor, EGR temperature	{CO 0 D} Fig. 23: CO page 28
B66A	Pyrometer	{BC 2 A} Fig. 7: BC page 12
B68	Sensor, output shaft speed, gearbox	{BB 0 D} Fig. 6: BB page 11
B68A	Sensor, Output shaft Speed, gearbox	{BB 1 D} Fig. 6: BB page 11
B68B	Sensor, Output shaft Speed, gearbox	{DC 1 D} Fig. 26: DC page 31
B68C	Sensor Output Shaft Speed, Temp A Start	{CU 2 B} Fig. 18: CC page 23
B68D	Sensor Output Shaft Speed, Gearbox	{CC 1 C} Fig. 18: CC page 23 {CI 2 C} Fig. 22: CI page 27
B78	Side Sensor, Vorad	{JB 1 E} Fig. 65: JB page 70
B79	Sensor, PCU (Pneumatic Control Unit)	{FE 2 D} Fig. 38: FE page 43
B80	SENSOR, ETHER START	{CA 1 B} Fig. 16: CA page 21
B103	Sensor, Transmission Turbine Speed	{DE 2 D} Fig. 28: DE page 33
B104	Sensor, Output Speed	{DE 3 D} Fig. 28: DE page 33
B105	Sensor, Retarder Temp.	{DE 2 D} Fig. 28: DE page 33
B160	Tachometer, Signal Module	{CU 2 D} Fig. 24: CU page 29
E05A	LAMP 5TH WHEEL (L1)	{GG 1 C} Fig. 45: GG page 50
E05B	LAMP 5TH WHEEL (L3, L4)	{GH 0 C} Fig. 46: GH page 51
E05C	LAMP 5TH WHEEL (L5)	{GH 2 C} Fig. 46: GH page 51

Component # and Description		Location
E05D	LAMP 5TH WHEEL	{GG 2 C} Fig. 45: GG page 50 {GG 1 C} Fig. 45: GG page 50 {GG 1 C} Fig. 45: GG page 50 {GH 0 C} Fig. 46: GH page 51 {GH 3 C} Fig. 46: GH page 51 {GH 2 C} Fig. 46: GH page 51 {GH 3 C} Fig. 46: GH page 51 {GH 1 C} Fig. 46: GH page 51 {GH 1 C} Fig. 46: GH page 51
E05E	LAMP 5TH WHEEL	{GG 1 C} Fig. 45: GG page 50 {GH 0 C} Fig. 46: GH page 51 {GH 2 C} Fig. 46: GH page 51
E05F	LAMP 5TH WHEEL	{GG 2 C} Fig. 45: GG page 50 {GH 3 C} Fig. 46: GH page 51 {GH 1 C} Fig. 46: GH page 51
E05G	LAMP 5TH WHEEL	{GG 2 C} Fig. 45: GG page 50 {GH 3 C} Fig. 46: GH page 51 {GH 1 C} Fig. 46: GH page 51
E05H	LAMP 5TH WHEEL	{GG 2 C} Fig. 45: GG page 50 {GH 2 C} Fig. 46: GH page 51 {GH 3 C} Fig. 46: GH page 51
E06	Lamp, Backup	{GF 1 B} Fig. 44: GF page 49 {GF 3 B} Fig. 44: GF page 49
E07L	Lamp, Fog Light	{GE 1 C} Fig. 43: GE page 48
E07R	Lamp, Fog Light	{GE 1 C} Fig. 43: GE page 48
E08L	Lamp, Driving Light	{GE 2 C} Fig. 43: GE page 48
E08R	Lamp, Driving Light	{GE 2 C} Fig. 43: GE page 48
E10	Lamp, Tail Light	{GF 3 D} Fig. 44: GF page 49
E10L	LAMP TAIL LIGHT LEFT	{GF 0 D} Fig. 44: GF page 49
E10LA	LAMP TAIL LIGHT LEFT	{GF 0 B} Fig. 44: GF page 49
E10LB	LAMP TAIL LIGHT LEFT	{GF 2 B} Fig. 44: GF page 49
E10R	LAMP TAIL LIGHT RIGHT	{GF 1 D} Fig. 44: GF page 49

Component # and Description		Location
E10RA	LAMP TAIL LIGHT RIGHT	{GF 1 B} Fig. 44: GF page 49
E10RB	LAMP TAIL LIGHT RIGHT	{GF 3 B} Fig. 44: GF page 49
E11L	Lamp, Side Repeater	{GA 1 D} Fig. 39: GA page 44
E11R	Lamp, Side Repeater	{GA 1 D} Fig. 39: GA page 44
E12A	LAMP, MARKER	{GC 1 C} Fig. 41: GC page 46
E12B	LAMP, MARKER	{GC 1 C} Fig. 41: GC page 46
E12C	LAMP, MARKER	{GC 2 C} Fig. 41: GC page 46
E12D	LAMP, MARKER	{GC 2 C} Fig. 41: GC page 46
E12E	LAMP, MARKER	{GC 2 C} Fig. 41: GC page 46
E13L	Lamp, Park/Turn	{GD 0 C} Fig. 42: GD page 47
E13R	Lamp, Park/Turn	{GD 0 C} Fig. 42: GD page 47
E14L	WARNING LAMP SNOWPLOW	{GI 3 C} Fig. 47: GI page 52
E14R	WARNING LAMP SNOWPLOW	{GI 4 C} Fig. 47: GI page 52
E16L	Lamp Door, D.S.	{IA 1 D} Fig. 57: IA page 62
E16R	Lamp Door, P.S.	{IA 1 D} Fig. 57: IA page 62
E17C	Lamp Flourescent	{HE 3 C} Fig. 54: HE page 59
E17C_H2	Lamp Flourescent	{HD 2 C} Fig. 53: HD page 58
E17C_H4	Lamp Flourescent	{HD 2 C} Fig. 53: HD page 58
E17D	Lamp Workcenter Flourescent	{HE 3 B} Fig. 54: HE page 59
E17L	Lamp, Interior Light	{IA 1 D} Fig. 57: IA page 62
E17R	Lamp, Interior Light	{IA 0 D} Fig. 57: IA page 62
E18A	Lamp Lower D.S.	{HD 4 D} Fig. 53: HD page 58
E18B	Lamp Under Cabinet D.S.	{HD 3 C} Fig. 53: HD page 58
E18C	Lamp Upper D.S.	{HD 1 C} Fig. 53: HD page 58 {HE 2 B} Fig. 54: HE page 59
E18D	Lamp Upper P.S.	{HE 2 B} Fig. 54: HE page 59
E18E	Lamp Valance D.S.	{HE 3 C} Fig. 54: HE page 59

Component # and Description		Location
E18F	Lamp Valance P.S.	{HE 3 B} Fig. 54: HE page 59
E18G	Lamp Upper P.S.	{HD 2 C} Fig. 53: HD page 58 {HF 2 C} Fig. 55: HF page 60
E18H	Lamp Upper D.S.	{HD 2 C} Fig. 53: HD page 58 {HF 2 C} Fig. 55: HF page 60
E18J	Lamp Lower D.S.	{HD 3 D} Fig. 53: HD page 58
E18K	Lamp Table	{HD 3 D} Fig. 53: HD page 58
E20A	Lamp Ashtray Illumination	{IF 1 C} Fig. 62: IF page 67
E22A	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C} Fig. 41: GC page 46
E22B	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C} Fig. 41: GC page 46
E22C	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C} Fig. 41: GC page 46
E23A	Lamp Luggage D.S.	{HD 3 B} Fig. 53: HD page 58 {HF 3 C} Fig. 55: HF page 60
E23B	Lamp Luggage P.S.	{HD 3 B} Fig. 53: HD page 58 {HF 3 C} Fig. 55: HF page 60
E23C	Lamp Luggage D.S.	{HE 3 D} Fig. 54: HE page 59
E23D	Lamp Luggage P.S.	{HE 4 D} Fig. 54: HE page 59
E26L	Lamp, Headlamp Module	{GD 1 C} Fig. 42: GD page 47
E26L_1	Lamp, Headlamp Module	{GD 3 C} Fig. 42: GD page 47
E26R	Lamp, Headlamp Module	{GD 2 C} Fig. 42: GD page 47
E26R_1	Lamp, Headlamp Module	{GD 4 C} Fig. 42: GD page 47
E28	PARKING HEATER	{HB 3 D} Fig. 51: HB page 56
E30L	Lamp, Headlamp	{GD 0 C} Fig. 42: GD page 47
E30R	Lamp, Headlamp	{GD 1 C} Fig. 42: GD page 47
E32	HVAC UNIT	{HB 2 C} Fig. 51: HB page 56 {HG 2 C} Fig. 56: HG page 61
E32A	HVAC UNIT	{HA 2 D} Fig. 50: HA page 55
E36A	LAMP, SUNVISOR	{GC 3 C} Fig. 41: GC page 46

Component # and Description		Location
E36B	LAMP, SUNVISOR	{GC 3 C} Fig. 41: GC page 46
E36C	LAMP, SUNVISOR	{GC 3 C} Fig. 41: GC page 46
E36D	LAMP, SUNVISOR	{GC 3 C} Fig. 41: GC page 46
E36E	LAMP, SUNVISOR	{GC 4 C} Fig. 41: GC page 46
E37	Lamp LECM Panel	{HE 1 B} Fig. 54: HE page 59
E39	Lamp, License Plate Illumination	{GF 1 B} Fig. 44: GF page 49 {GF 3 B} Fig. 44: GF page 49
E43L	Lamp, Driving/Fog	{GE 0 C} Fig. 43: GE page 48
E43R	Lamp, Driving/Fog	{GE 1 C} Fig. 43: GE page 48
E59	Lamp Indicator TAS ON/Neutral	{CU 2 B} Fig. 24: CU page 29
G01	Battery	{BA 0 E} Fig. 5: BA page 10 {AA 2 B} Fig. 1: AA page 6 {AC 0 D} Fig. 3: AC page 8 {DB 4 B} Fig. 25: DB page 30 {HC 0 B} Fig. 52: HC page 57 {CC 3 C} Fig. 18: CC page 23 {CI 1 B} Fig. 22: CI page 27 {DG 0 B} Fig. 30: DG page 35 {AD 3 C} Fig. 4: AD page 9 {CU 2 B} Fig. 24: CU page 29
G01	Battery	{DF 3 E} Fig. 29: DF page 34
G01A	Battery Ring	{BA 0 E} Fig. 5: BA page 10
G01B	Battery Ring	{BA 0 E} Fig. 5: BA page 10 {CC 3 B} Fig. 18: CC page 23 {CI 1 B} Fig. 22: CI page 27
G01C	Battery Ring	{AC 0 D} Fig. 3: AC page 8
G01D	Battery Ring	{CU 2 B} Fig. 24: CU page 29
G01E	Battery Ring	{AC 0 D} Fig. 3: AC page 8
G02	Alternator	{AC 1 C} Fig. 3: AC page 8 {CB 2 B} Fig. 17: CB page 22 {BG 0 B} Fig. 11: BG page 16 {AD 3 B} Fig. 4: AD page 9

Component # and Description		Location
G03	Inverter, 12VDC - 120VAC	{HC 0 B} Fig. 52: HC page 57
G04	Power Distribution Unit, 120VAC	{HC 2 B} Fig. 52: HC page 57
H02	Horn	{GQ 0 D} Fig. 49: GQ page 54
H03	Backup Alarm	{GF 1 D} Fig. 44: GF page 49 {GF 1 B} Fig. 44: GF page 49 {GF 3 B} Fig. 44: GF page 49
H05	Alarm	{CU 3 B} Fig. 24: CU page 29
H07_H4	SMOKE DETECTOR	{IG 3 B} Fig. 63: IG page 68
M01	WINDSHIELD WIPER MOTOR	{GP 2 D} Fig. 62: IF page 67
M02A	WINDSHIELD WASHER PUMP, VN	{GP 2 B} Fig. 48: GP page 53
M02B	WINDSHIELD WASHER PUMP, VHD	{GP 3 B} Fig. 48: GP page 53
M04	Motor, Starter	{AA 2 A} Fig. 1: AA page 6 {AC 1 B} Fig. 3: AC page 8 {AD 3 B} Fig. 4: AD page 9
M06DS	Motor, Window Winder D.S.	{IC 1 C} Fig. 59: IC page 64
M06PS	Motor, Window Winder P.S.	{IC 2 D} Fig. 59: IC page 64 {ID 0 D} Fig. 60: ID page 65
M110L	Mirror Motors & Heater, LHS	{IC 0 B} Fig. 59: IC page 64 {ID 2 D} Fig. 60: ID page 65
M110R	Mirror Motors & Heater, RHS	{IC 3 B} Fig. 59: IC page 64 {ID 3 D} Fig. 60: ID page 65
M15	Motor, fuel priming pump	{CO 2 B} Fig. 23: CO page 28
M18	MOTOR SINK PUMP	{HE 0 D} Fig. 54: HE page 59
M19	Motor, EGR control valve	{CO 1 B} Fig. 23: CO page 28
M20L	POWER SEAT, LEFT	{IB 0 D} Fig. 58: IB page 63
M20R	POWER SEAT, RIGHT	{IB 1 D} Fig. 58: IB page 63
M80L	Drivers Side Door Lock Control Assembly	{IE 0 D} Fig. 61: IE page 66 {IA 3 B} Fig. 57: IA page 62 {IA 3 D} Fig. 57: IA page 62 {IA 2 D} Fig. 57: IA page 62

Component # and Description		Location
M80R	Passenger Side Door Lock Control Assembly	{IE 1 D} Fig. 61: IE page 66 {IA 3 B} Fig. 57: IA page 62 {IA 4 D} Fig. 57: IA page 62 {IA 3 D} Fig. 57: IA page 62
MFA1	Not Used	{AA 1 D} Fig. 1: AA page 6
MFA2	Fuse F4 & F10 in LECM/ Body Builder	{AA 1 B} Fig. 1: AA page 6 {HB 2 A} Fig. 51: HB page 56 {BG 0 A} Fig. 11: BG page 16
MFA3	FUSE F42-F48	{AA 0 B} Fig. 1: AA page 6
MFA4	DR Relay	{AA 1 B} Fig. 1: AA page 6
MFA5	POWER RELAY 2	{AA 0 B} Fig. 1: AA page 6
MFA6	POWER RELAY 1	{AA 0 B} Fig. 1: AA page 6
MFA7	LCM4	{AA 1 B} Fig. 1: AA page 6 {GB 3 B} Fig. 40: GB page 45
MFA8	Not Used	{AA 1 B} Fig. 1: AA page 6
MFB1	Fuse F1 & F7 in LECM	{HB 1 A} Fig. 51: HB page 56 {AB 3 C} Fig. 2: AB page 7 {HF 2 A} Fig. 55: HF page 60
MFB2	TRAILER AUX	{MA 0 A} Fig. 70: MA page 75 {AB 0 D} Fig. 2: AB page 7
MFB3	POWER RELAY 3	{AB 3 C} Fig. 2: AB page 7
MFB4	POWER RELAY 4	{AB 3 C} Fig. 2: AB page 7
MFB5	Fuse F8-F13	{AB 4 C} Fig. 2: AB page 7
MFB6	Fuses F15-F20	{AB 1 A} Fig. 2: AB page 7
MFB7	BUNK HVAC	{HB 3 A} Fig. 51: HB page 56 {AB 3 C} Fig. 2: AB page 7 {HG 3 A} Fig. 56: HG page 61
MFB8	BUNK FUNCTIONS	{HB 2 A} Fig. 51: HB page 56 {AB 4 C} Fig. 2: AB page 7 {HG 1 A} Fig. 56: HG page 61
R01	Heater, engine preheat	{CO D B} Fig. 23: CO page 28 {CB 2 C} Fig. 17: CB page 22
R01A	Heater, engine preheat 110V	{CA 2 D} Fig. 16: CA page 21
R04A	Cigar Lighter	{IF 1 C} Fig. 62: IF page 67
R04B	CIGAR LIGHTER, PANEL	{HD 1 B} Fig. 53: HD page 58 {HE 1 C} Fig. 54: HE page 59

Component # and Description		Location
R05A	AIR DRYER	{FA 2 C} Fig. 34: FA page 39
R05B	AIR DRYER	{FA 2 C} Fig. 34: FA page 39
R05C	AIR DRYER	{FA 3 C} Fig. 34: FA page 39
R08	Termination resistor, CAN-bus	{CC 0 B} Fig. 18: CC page 23 {JB 3 D} Fig. 65: JB page 70 {BH 2 D} Fig. 12: BH page 17 {CI 2 B} Fig. 22: CI page 27
R08A	TERMINATION RESISTOR	{BI 3 B} Fig. 13: BI page 18
R08B	TERMINATING RESISTOR	{EB 0 B} Fig. 33: EB page 38
R08C	TERMINATING RESISTOR	{XA 3 B} Fig. 72: XA page 77
R09	Heater, Fuel Filter RH	{CE 2 C} Fig. 19: CE page 24
R09A	Heater, Fuel Filter LH	{CE 2 C} Fig. 19: CE page 24
R09B	Heater, Fuel Filter Construction	{CE 1 C} Fig. 19: CE page 24
R11	Dome Lamps Relay	{IA 1 C} Fig. 57: IA page 62
R18A	HEATER DRAIN VALVE	{FA 0 C} Fig. 34: FA page 39
R18B	HEATER DRAIN VALVE	{FA 1 C} Fig. 34: FA page 39
S01	Switch, main lighting, selector type	{GA 0 C} Fig. 39: GA page 44
S02	Stalk switch, full- / dipped beams	{BA 2 B} Fig. 5: BA page 10 {GA 2 B} Fig. 39: GA page 44
S04	SWITCH, CLIMATE FAN SELECTOR TYPE	{HB 0 B} Fig. 51: HB page 56
S04A	SWITCH, Sleeper HVAC Fan Speed	{HG 1 B} Fig. 56: HG page 61
S05	Switch Interior Lighting	{HD 0 B} Fig. 53: HD page 58 {HE 2 D} Fig. 54: HE page 59
S06	WINDSHIELD WIPER SWITCH	{BC 1 C} Fig. 7: BC page 12 {GP 0 C} Fig. 48: GP page 53

Component # and Description		Location
S07	Switch, engine brake, selector type	{CF 3 C} Fig. 20: CF page 25 {CF 1 C} Fig. 20: CF page 25 {CF 0 C} Fig. 20: CF page 25
S07B	Switch Engine Brake ON/OFF	{CF 3 C} Fig. 20: CF page 25
S08	Switch, differential gear lock, rear wheels	{FD 1 B} Fig. 37: FD page 42
S09	Switch, differential gear locks, inter axles and rear wheels, selector type	{FD 2 B} Fig. 37: FD page 42
S68	Sensor, coolant level	{CO 2 B} Fig. 23: CO page 28
S103A	Switch, Heated Mirror	{ID 2 B} Fig. 60: ID page 65
S103B	Switch, Motorized Mirror	{ID 3 B} Fig. 60: ID page 65
S104	Switch, Marker Interrupt	{JC 3 C} Fig. 66: JC page 71
S104A	Auxiliary Switch 1	{NA 0 C} Fig. 71: NA page 76
S104B	Auxiliary Switch 2	{NA 1 C} Fig. 71: NA page 76
S104C	Auxiliary Switch 3	{NA 2 C} Fig. 71: NA page 76
S106	Switch, Passenger Window Winder	{ID 1 B} Fig. 60: ID page 65
S11A	SWITCH 1, LIFT AXLE	{FB 0 B} Fig. 35: FB page 40
S11B	SWITCH 2, LIFT AXLE	{FB 1 C} Fig. 35: FB page 40
S11C	SWITCH 3, LIFT AXLE	{FB 2 C} Fig. 35: FB page 40
S11D	Switch, Air Suspension, Manual Control, ON/OFF	{EB 2 D} Fig. 33: EB page 38
S11E	Switch, Suspension Control, UP/DN	{EB 3 D} Fig. 33: EB page 38
S12	SWITCH, SNOWPLOW LAMP	{GI 1 B} Fig. 47: GI page 52
S121	SWITCH, TOUCH LOCK	{BJ 2 C} Fig. 14: BJ page 19
S122A	Switch Temp A Start ON/OFF	{CU 0 B} Fig. 24: CU page 29
S14A	Switch, City Horn/Air Horn	{GQ 1 C} Fig. 49: GQ page 54
S15	Switch, Ignition	{AB 1 C} Fig. 2: AB page 7
S24	Stalk switch, retarder, selector type	{CF 3 D} Fig. 20: CF page 25
S24A	SWITCH, STALK ALLISON RETARDER	{DE 0 C} Fig. 28: DE page 33
S24C	Switch, ON/OFF Allison Retarder	{DE 2 B} Fig. 28: DE page 33

Component # and Description		Location
S28A	Switch, Power Take-Off	{DP 2 C} Fig. 31: DP page 36
S28B	Switch, Power Take-Off	{DP 3 C} Fig. 31: DP page 36
S28C	Switch, Power Take-Off	{DP 4 C} Fig. 31: DP page 36
S28E	SWITCH, VOLVO ACTION SERVICE	{BF 1 D} Fig. 10: BF page 15
S31	Switch, TCS (Traction Control System)	{EA 3 B} Fig. 32: EA page 37
S35	Switch unit, GLU (Gear Lever Unit)	{DC 2 D} Fig. 26: DC page 31
S35M	SWITCH UNIT, GLU (GEAR LEVER UNIT)	{DD 1 D} Fig. 27: DD page 32
S43	Pressure Switch, Parking Brake Indicator	{BA 4 D} Fig. 5: BA page 10
S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO.	{BD 2 B} Fig. 8: BD page 13
S45B	DIFFERENTIAL SWITCH, REAR AXLE	{BD 2 B} Fig. 8: BD page 13
S48	Pressure switch, brake light, NO.	{GB 2 D} Fig. 40: GB page 45
S49	Position switch, reverse lamps, NO.	{GA 2 B} Fig. 39: GA page 44
S58	Position Switch, Clutch Pedal	{BB 3 B} Fig. 6: BB page 11
S59	Position Switch, Brake Pedal	{BB 3 B} Fig. 6: BB page 11
S62	Pressure switch, air pressure, NC.	{FE 0 D} Fig. 38: FE page 43
S68	Proximity switch, coolant level, NC.	{CC 1 E} Fig. 18: CC page 23 {CI 0 D} Fig. 22: CI page 27
S72	Switch, Water in Fuel Separator Drain Valve	{BA 1 B} Fig. 5: BA page 10
S75	SWITCH, BEACON WARNING LIGHT	{GI 3 B} Fig. 47: GI page 52
S76	Switch, spotlights	{GG 0 C} Fig. 45: GG page 50
S80	Door Lock Control Module	{IE 0 B} Fig. 61: IE page 66
S80D	Driver Side Door Control Panel	{IC 2 B} Fig. 59: IC page 64
S80P	Passenger Side Door Control Panel	{IC 2 D} Fig. 59: IC page 64
S87	SWITCH SINK/ FAUCET	{HE 0 C} Fig. 54: HE page 59
S88	Switch, 5th Wheel Slide	{FC 2 B} Fig. 36: FC page 41
S89	Position Switch, Hood Tilt	{CU 1 B} Fig. 24: CU page 29

Component # and Description		Location
S90	Switch, Neutral	{CU 3 B} Fig. 24: CU page 29
S92	Switch, Inverter remote	{HC 0 D} Fig. 52: HC page 57
S93	Switch, Suspension Dump	{FC 1 B} Fig. 36: FC page 41
S97	SWITCH, INSIDE / OUTSIDE AIR CLEANER	{CH 2 C} Fig. 21: CH page 26
S98	Switch, Smoke Detector Disable/Beacon Lamp	{IG 3 D} Fig. 63: IG page 68
W04	Front Antenna, Vorad	{JB 0 E} Fig. 65: JB page 70
X01	Connector, Vehicle Diagnostics	{XA 2 D} Fig. 72: XA page 77
X04	Trailer connection, 7-pole unit, 24 N	{MA 1 D} Fig. 70: MA page 75
X06A	BODY BUILDER CONNECTOR #3	{BI 1 D} Fig. 13: BI page 18
X06B	BODY BUILDER CONNECTOR #4	{BI 3 D} Fig. 11: BG page 16
X06C	BODY BUILDER CONNECTOR #1	{BG 0 D} Fig. 11: BG page 16
X06D	BODY BUILDER CONNECTOR #2	{BG 2 B} Fig. 11: BG page 16
X06F	BODY BUILDER CAMERA PREP	{BG 1 B} Fig. 11: BG page 16
X07A	12V SOCKET	{IF 0 C} Fig. 62: IF page 67
X07B	12V SOCKET, PANEL	{HD 1 C} Fig. 53: HD page 58 {HE 1 B} Fig. 54: HE page 59
X07C	12V SOCKET, D.S. CABINET	{HE 2 C} Fig. 54: HE page 59
X07D	12V SOCKET, TV/VCR	{HE 2 B} Fig. 54: HE page 59
X07D_H2	12V SOCKET, TV/VCR	{HD 1 C} Fig. 53: HD page 58
X07D_H4	12V SOCKET, TV/VCR	{HD 1 C} Fig. 53: HD page 58
X07E	12V SOCKET, RADIO SHELF	{IF 2 C} Fig. 62: IF page 67
X07F	12V STUDS, CB OVERHEAD	{IF 3 C} Fig. 62: IF page 67
X07G	12V STUDS, CB DASH	{IF 3 C} Fig. 62: IF page 67
X08	Contact reel, air bag	{GA 3 B} Fig. 39: GA page 44 {JA 1 D} Fig. 64: JA page 69 {JC 0 D} Fig. 66: JC page 71

Component # and Description		Location
X0A	SPLICE PACK	{HB 0 E} Fig. 51: HB page 56 {AC 3 B} Fig. 3: AC page 8 {FD 1 D} Fig. 37: FD page 42 {DE 3 D} Fig. 28: DE page 33 {CH 2 D} Fig. 21: CH page 26 {FC 2 C} Fig. 36: FC page 41 {FC 1 D} Fig. 36: FC page 41
X0B	SPLICE PACK	{HD 0 E} Fig. 53: HD page 58 {AC 3 C} Fig. 3: AC page 8 {DP 2 E} Fig. 31: DP page 36 {IB 0 D} Fig. 58: IB page 63 {DE 3 D} Fig. 28: DE page 33 {DE 3 D} Fig. 28: DE page 33 {IG 3 D} Fig. 63: IG page 68 {FE 0 D} Fig. 38: FE page 43 {FB 0 D} Fig. 35: FB page 40 {HE 3 E} Fig. 54: HE page 59
X0D	SPLICE PACK	{AA 0 D} Fig. 1: AA page 6 {HB 1 E} Fig. 51: HB page 56 {AC 3 B} Fig. 3: AC page 8 {GI 0 D} Fig. 47: GI page 52 {IB 1 D} Fig. 58: IB page 63 {JB 4 D} Fig. 65: JB page 70 {FB 3 D} Fig. 35: FB page 40 {EB 3 E} Fig. 33: EB page 38 {CU 3 D} Fig. 24: CU page 29 {CU 2 D} Fig. 24: CU page 29

Component # and Description		Location
X0X	SPLICE PACK	{BA 2 E} Fig. 5: BA page 10 {IE 2 D} Fig. 61: IE page 66 {AC 0 B} Fig. 3: AC page 8 {XA 1 E} Fig. 72: XA page 77 {GI 3 E} Fig. 47: GI page 52 {DC 1 D} Fig. 26: DC page 31 {DC 0 D} Fig. 26: DC page 31 {JC 1 D} Fig. 66: JC page 71 {DD 0 E} Fig. 27: DD page 32 {BI 0 D} Fig. 13: BI page 18 {BK 1 D} Fig. 15: BK page 20 {CU 0 D} Fig. 24: CU page 29
X13	Connector, CTI configuration	{FE 0 C} Fig. 38: FE page 43
X14	ROAD RELAY CONNECTOR	{BH 0 C} Fig. 12: BH page 17
X17A	Auxiliary Connector 1	{NA 0 D} Fig. 71: NA page 76
X17B	Auxiliary Connector 2	{NA 1 D} Fig. 71: NA page 76
X17C	Auxiliary Connector 3	{NA 2 D} Fig. 71: NA page 76
X17CA	OPTION CONNECTOR A,CAB SIDE	{BG 3 C} Fig. 11: BG page 16
X17CB	OPTION CONNECTOR B,CAB SIDE	{BG 3 C} Fig. 11: BG page 16
X17FA	OPTION CONNECTOR A, CHASSIS SIDE	{BG 3 C} Fig. 11: BG page 16
X17FB	OPTION CONNECTOR B,CHASSIS SIDE	{BG 3 C} Fig. 11: BG page 16
X18A	Fusible Link	{AA 2 B} Fig. 1: AA page 6 {AB 4 A} Fig. 2: AB page 7
X18C	Fusible Link	{AC 1 C} Fig. 3: AC page 8
X18D	Fusible Link	{CB 2 C} Fig. 17: CB page 22
X18E	Fusible Link	{CB 2 C} Fig. 17: CB page 22
X19	RADIO CONNECTOR	{BH 4 B} Fig. 12: BH page 17
X20	MAIN CAB RADIO CONNECTOR	{BH 3 B} Fig. 12: BH page 17
X21	OPTION CONNECTOR SNOWPLOW LIGHTS	{GI 1 D} Fig. 47: GI page 52
X23	Connector, Interface V.A.L.	{BF 2 B} Fig. 10: BF page 15

Component # and Description		Location
X25	Connector, OEM Interface	{CI 0 C} Fig. 22: CI page 27
X284/196DR	SPLICE PACK	{AB 0 A} Fig. 2: AB page 7
X400	SPLICE PACK	{XA 0 B} Fig. 72: XA page 77
X401	SPLICE PACK	{XA 1 B} Fig. 72: XA page 77
X45	Receptacle Engine Heater 110V	{CA 2 B} Fig. 16: CA page 21
XE1	Stud, Engine Block	{AC 1 D} Fig. 3: AC page 8
XP1	POWER STUD	{AA 1 A} Fig. 1: AA page 6
XP2	POWER STUD	{AB 3 B} Fig. 2: AB page 7
Y02	Solenoid valve, differential lock, rear wheels	{FD 2 C} Fig. 37: FD page 42 {FD 1 C} Fig. 37: FD page 42
Y03A	Solenoid valve, differential lock, rear inter axle	{FD 3 C} Fig. 37: FD page 42 {FD 2 C} Fig. 37: FD page 42
Y05A	Solenoid valve, suspension dump	{FC 3 D} Fig. 36: FC page 41 {FC 1 D} Fig. 36: FC page 41
Y05B	Solenoid, Lift Axle 1	{FB 0 D} Fig. 35: FB page 40
Y05C	Solenoid, Lift Axle 2	{FB 0 D} Fig. 35: FB page 40
Y05D	Solenoid, Lift Axle 3	{FB 2 D} Fig. 35: FB page 40
Y05G	Switch, Inside/Outside Air Cleaner	{CH 2 D} Fig. 21: CH page 26
Y11	Solenoid valve unit, ABS, lhs. front	{EA 1 B} Fig. 32: EA page 37
Y12	Solenoid valve unit, ABS, rhs. front	{EA 0 B} Fig. 32: EA page 37
Y13	Solenoid valve unit, ABS, lhs. rear	{EA 1 D} Fig. 32: EA page 37
Y14	Solenoid valve unit, ABS, rhs. rear	{EA 1 D} Fig. 32: EA page 37
Y15	Solenoid valve unit, ABS, lhs. 3:rd axle	{EA 3 D} Fig. 32: EA page 37
Y16	Solenoid valve unit, ABS, rhs. 3:rd axle	{EA 3 D} Fig. 32: EA page 37
Y17	Solenoid Retarder	{DE 2 D} Fig. 28: DE page 33
Y18A	SOLENOID VALVE SINGLE PTO	{DP 0 D} Fig. 31: DP page 36
Y18B	SOLENOID VALVE ENGINE MOUNTED DUAL PTO	{DP 4 D} Fig. 31: DP page 36

Component # and Description		Location
Y25A	Solenoid, Level Control Main Axles	{EB 1 B} Fig. 33: EB page 38
Y29A	Solenoid, Level Control Tag Axle	{EB 2 B} Fig. 33: EB page 38
Y35	Solenoid valve engine cooling fan	{CO 4 B} Fig. 23: CO page 28 {CC 1 C} Fig. 18: CC page 23 {CB 2 D} Fig. 17: CB page 22 {CI 0 B} Fig. 22: CI page 27
Y35E	Solenoid Engine Fan E_Visco	{CC 1 B} Fig. 18: CC page 23
Y42	Clutch, magnetic, air conditioning compressor	{HA 1 C} Fig. 50: HA page 55
Y50	Solenoid valve, PCU (Pneumatic Control Unit)	{FE 3 D} Fig. 38: FE page 43
Y51	Solenoid valve, Air dryer	{FA 3 C} Fig. 34: FA page 39
Y53B	SOLENOID PACK, SECONDARY	{DP 0 C} Fig. 31: DP page 36
Y57	Solenoid Valve, ACT	{EA 1 D} Fig. 32: EA page 37
Y62	Solenoid Accumulator	{DE 3 D} Fig. 28: DE page 33
Y72	Solenoid Valve, Airhorn	{GQ 3 C} Fig. 49: GQ page 54 {GQ 2 C} Fig. 49: GQ page 54
Y74	Solenoid, Ether Start	{CA 0 C} Fig. 16: CA page 21
MC141A:D	*opt*	{BJ 1 B} Fig. 14: BJ page 19 {ID 2 A} Fig. 60: ID page 65
MC141A:G	*opt*	{NA 0 A} Fig. 71: NA page 76
MC141A:H	*opt*	{IG 3 A} Fig. 63: IG page 68
MC141A:J	*opt*	{BF 0 B} Fig. 10: BF page 15
MC141A:K	*opt*	{NA 1 A} Fig. 71: NA page 76
MC141A:L	*opt*	{NA 3 A} Fig. 71: NA page 76
MC141A-B:F	*opt*	{EB 4 B} Fig. 33: EB page 38
MCFC:69	*opt*	{BJ 2 C} Fig. 14: BJ page 19
MCFC:94	*opt*	{BJ 2 C} Fig. 14: BJ page 19

Component # and Description		Location
X0X:D	*opt*	{IG 3 D} Fig. 63: IG page 68
X0X:M	*opt*	{BK 1 D} Fig. 15: BK page 20
XC1	Stud, Bulkhead Inside Cab	{AD 4 E} Fig. 4: AD page 9
XC1_1	Stud, Bulkhead Inside	{BE 0 E} Fig. 9: BE page 14
XC1_2	Stud, Bulkhead Interior	{JA 2 D} Fig. 64: JA page 69
XE1:5	Stud, Engine Block	{CU 3 E} Fig. 24: CU page 29
XE1_1	Stud, Engine Block	{CC 2 E} Fig. 18: CC page 23 {CI 4 E} Fig. 22: CI page 27
XF1	Stud, Framerrail	{AC 1 E} Fig. 3: AC page 8
XF1_1	Stud, Framerrail	{MA 1 E} Fig. 70: MA page 75
XF1_2	Stud, Framerrail	{AC 1 D} Fig. 3: AC page 8
XG2	Stud 2, Bulkhead	{AC 3 E} Fig. 3: AC page 8
XG2:1	Stud 2, Bulkhead	{EA 4 D} Fig. 32: EA page 37
XG3	Stud 3, Bulkhead	{AC 3 D} Fig. 3: AC page 8
XG3	Stud 3, Bulkhead	{AC 3 E} Fig. 3: AC page 8
XG3:1	Stud 3 Bulkhead	{AC 3 D} Fig. 3: AC page 8
XG3:2	Stud 3 Bulkhead	{BG 0 D} Fig. 11: BG page 16
XG4	Stud 4, Bulkhead	{AC 3 E} Fig. 3: AC page 8
XG4	Stud 4, Bulkhead	{AC 3 D} Fig. 3: AC page 8
XG4:1	Ground Point 4 Bulkhead	{EB 2 B} Fig. 33: EB page 38
XG5	Stud 1, Bulkhead	{AC 3 D} Fig. 3: AC page 8
XG5	Stud 1, Bulkhead	{AC 3 E} Fig. 3: AC page 8
XG6	Stud, Bulkhead	{AC 2 E} Fig. 3: AC page 8
XG7	Stud, Bulkhead	{AC 2 E} Fig. 3: AC page 8
XG7:1	Stud, Bulkhead	{HA 1 E} Fig. 50: HA page 55 {CA 1 D} Fig. 16: CA page 21
XG9	Stud, Behind Alt.	{CB 2 D} Fig. 17: CB page 22

Reference List: Inline Connectors

Inline connectors are named by combining a set of harness abbreviations. The first abbreviation represents the feeding harness. In some cases, more than one connector is between two harnesses. In this case a number is added to the end of the abbreviation.

Example:

MCSL2:3 Main Cab and Sleeper Harness Inline, Connector 2, Pin 3

MCSL4:C Main Cab and Sleeper Harness Inline, Connector 4, Pin C

Harness Abbreviations (Examples)			
NAME	HARNESS	NAME	HARNESS
AD	AIR DRIER	PL	SNOWPLOW OVERLAY
ALS	ALLISON SELECTOR - GEAR	PM	POWER MODULE
AR	AIR RESTRICTION JUMPER	PS	PREMIUM SOUND OVERLAY
AS	AUTOSHIFT	PTO	POWER TAKE-OFF
AT	ALLISON TRANSMISSION	QC	QUALCOMM
B	EXPANSION BLOCK	RA	REAR AXLE
BB	BODY BUILDER DASH OVERLAY	RAJ	REAR AXLE JUMPER
BOC	BACK OF CAB LAMP JUMPER	RF	ROOF SIGN
BP	BATTERY POWER - ENGINE	RFJ	ROOF SIGN JUMPER
CB	C.B. STUDS JUMPER	RH	REAR WALL HEADER
CE	CHASSIS EXTENSION	RJ	RADIO JUMPER
DL	DOOR - LEFT	RS	RADIO SHELF PREP.
DLR	DIFFERENTIAL LOCK	RW	REAR WALL
DR	DOOR - RIGHT	SK	SINK/FAUCET PUMP
DV	DRAIN VALVE HEATER	SL	SLEEPER
EB	ENGINE BRAKE JUMPER	SN	SHIFT KNOB
EN	ENGINE	SP	SPEAKER JUMPER
FA	FRONT ANTENNA	SPJ	SOLENOID PACK JUMPER
FC	FRONT CHASSIS	SPO	SNOWPLOW OPTION
FCJ	FUEL COOLER JUMPER	SS	SIDE SENSOR (VORAD)
FD	FOG AND DRIVING LAMPS	SSO	SPEED SIGNAL OPTION (NO HARNESS)
FRC	FUSE AND RELAY CENTER	SV	SUNVISOR
HL	HEADLIGHT	SW	STEERING WHEEL SWITCHES
IJ	ICON JUMPER	TBJ	TABLE LAMP JUMPER
LA	LIFT AXLE OVERLAY	TBP	TRANSMISSION BATTERY POWER
LK	DOOR LOCK OVERLAY	TL	TAILLIGHT
MC	MAIN CAB	TR	TRANSMISSION
MI	MARKER INTERRUPT	TSJ	TEMP SWITCH JUMPER
MJ	MIRROR JUMPER	TT	TRANSMISSION TEMP
OB	OVERHEAD BUNK	VA	REAR WALL VALANCE
OCP	OVERCRANK PROTECTION	VE	VORAD/Electronic Control Suspension System
OF	OVERHEAD FRONT		
OPT	OPTION CONNECTOR IN DASH		

Harness Abbreviations (Examples)			
NAME	HARNESS	NAME	HARNESS
PHC	PREHEATER, CUMMINS		
PHV	PREHEATER, VOLVO		
PJ	PREHEAT JUMPER		

List of Connectors

Inline Connector	Location		
B1-4:1	{BJ 1 D} Fig. 14: BJ page 19	CETL:A	{GF 3 C} Fig. 44: GF page 49
B1-4:2	{BK 2 B} Fig. 15: BK page 20		{GF 3 A} Fig. 44: GF page 49
B1-5:2	{BF 1 B} Fig. 10: BF page 15		{GF 1 B} Fig. 44: GF page 49
B1-6:1	{BH 0 B} Fig. 12: BH page 17	CETL:B	{GF 2 C} Fig. 44: GF page 49
B1-6:2	{BF 1 B} Fig. 10: BF page 15		{GF 2 A} Fig. 44: GF page 49
B2:B2-1_2	{BH 1 B} Fig. 12: BH page 17		{GF 0 B} Fig. 44: GF page 49
B2:B2-2_1	{BH 0 D} Fig. 12: BH page 17	CETL:C	{GF 0 B} Fig. 44: GF page 49
B2:B2-2_2	{BH 1 B} Fig. 12: BH page 17		{GF 2 C} Fig. 44: GF page 49
B2:B2-3_1	{AC 3 C} Fig. 3: AC page 8		{GF 2 A} Fig. 44: GF page 49
B2:B2-3_2	{AB 4 E} Fig. 2: AB page 7		{GF 0 B} Fig. 44: GF page 49
B2:B2-5_1	{GC 4 D} Fig. 41: GC page 46	CETL:D	{GF 0 B} Fig. 44: GF page 49
B2:B2-5_2	{BK 2 B} Fig. 15: BK page 20		{GF 3 C} Fig. 44: GF page 49
B2-1:2	{BH 1 B} Fig. 12: BH page 17		{GF 3 A} Fig. 44: GF page 49
B2-2:1	{BH 0 D} Fig. 12: BH page 17		{GF 1 B} Fig. 44: GF page 49
B2-2:2	{BF 1 B} Fig. 10: BF page 15	CETL:E	{GF 1 B} Fig. 44: GF page 49
	{BH 1 B} Fig. 12: BH page 17		{GF 4 E} Fig. 44: GF page 49
B2-5:1	{GC 2 B} Fig. 41: GC page 46		{GF 3 C} Fig. 44: GF page 49
	{GC 2 B} Fig. 41: GC page 46		{GF 1 C} Fig. 44: GF page 49
	{BK 2 B} Fig. 15: BK page 20	DVAD:A	{GF 1 C} Fig. 44: GF page 49
B2-5:2	{GC 4 D} Fig. 41: GC page 46		{FA 1 D} Fig. 34: FA page 39
B3:R15_30	{DF 1 B} Fig. 29: DF page 34	DVAD:B	{FA 1 B} Fig. 34: FA page 39
B3:R15_85	{DF 1 B} Fig. 29: DF page 34	DVDV:A	{FA 1 C} Fig. 34: FA page 39
B3:R15_86	{DF 1 C} Fig. 29: DF page 34	DVDV:B	{FA 1 B} Fig. 34: FA page 39
B3:R15_87	{DF 1 B} Fig. 29: DF page 34	EM: 1-12	{CO 0 A} Fig. 23: CO page 28
B3:R16_30	{BA 3 B} Fig. 5: BA page 10	ENEN1:A	{AD 4 D} Fig. 4: AD page 9
B3:R16_85	{BA 3 C} Fig. 5: BA page 10	ENEN1:B	{AD 4 D} Fig. 4: AD page 9
B3:R16_86	{BA 3 B} Fig. 5: BA page 10	ENFS:A	{CC 1 C} Fig. 18: CC page 23
B3:R16_87	{BA 3 C} Fig. 5: BA page 10		{CI 0 C} Fig. 22: CI page 27
B3:R17_30	{BA 3 B} Fig. 5: BA page 10	ENFS:B	{CC 1 C} Fig. 18: CC page 23
B3:R17_85	{BA 3 B} Fig. 5: BA page 10		{CI 0 C} Fig. 22: CI page 27
B3:R17_86	{BA 3 B} Fig. 5: BA page 10	ENOCP:A	{AD 4 C} Fig. 4: AD page 9
B3:R17_87	{BA 3 B} Fig. 5: BA page 10		{AD 3 C} Fig. 4: AD page 9
B3:R18_30	{DF 2 C} Fig. 29: DF page 34	ENOCP:B	{AD 4 D} Fig. 4: AD page 9
B3:R18_85	{DF 2 B} Fig. 29: DF page 34		{AD 3 D} Fig. 4: AD page 9
B3:R18_86	{DF 2 C} Fig. 29: DF page 34	FCAD:A	{FA 3 D} Fig. 34: FA page 39
B3:R18_87	{DF 2 B} Fig. 29: DF page 34		{FA 2 D} Fig. 34: FA page 39
CERAJ1:A	{BD 2 B} Fig. 8: BD page 13		{FA 0 D} Fig. 34: FA page 39
CERAJ1:B	{BD 2 C} Fig. 8: BD page 13	FCAD:B	{FA 3 B} Fig. 34: FA page 39
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CERAJ2:A	{BD 2 B} Fig. 8: BD page 13	FCAR:A	{FA 0 B} Fig. 34: FA page 39
CERAJ2:B	{BD 3 C} Fig. 8: BD page 13		{BD 1 C} Fig. 8: BD page 13
CERAJ2:C	{BC 3 B} Fig. 7: BC page 12	FCAR:B	{BD 1 B} Fig. 8: BD page 13
CETE:A	{GF 2 A} Fig. 44: GF page 49	FCCE:A	{GF 1 C} Fig. 44: GF page 49
CETE:B	{GF 0 A} Fig. 44: GF page 49		{GF 1 A} Fig. 44: GF page 49
CETE:C	{GF 0 A} Fig. 44: GF page 49	FCCE:B	{GF 0 C} Fig. 44: GF page 49
CETE:D	{GF 0 A} Fig. 44: GF page 49		{GF 0 A} Fig. 44: GF page 49
CETE:E	{GF 1 C} Fig. 44: GF page 49	FCCE:C	{GF 0 C} Fig. 44: GF page 49
			{GF 0 A} Fig. 44: GF page 49
		FCCE:D	{GF 1 C} Fig. 44: GF page 49
			{GF 1 A} Fig. 44: GF page 49
		FCCE:E	{BD 2 C} Fig. 8: BD page 13

FCCE:F	{BC 3 B} Fig. 7: BC page 12	FCHL:D	{GD 0 B} Fig. 42: GD page 47
FCCE:G	{BC 3 B} Fig. 7: BC page 12		{GD 3 B} Fig. 42: GD page 47
FCCE:H	{BD 2 D} Fig. 8: BD page 13		{GD 1 B} Fig. 42: GD page 47
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FCCTI:B	{FE 1 B} Fig. 38: FE page 43		{GD 2 B} Fig. 42: GD page 47
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FCCTI:D	{FE 2 C} Fig. 38: FE page 43	FCHL:F	{GD 1 B} Fig. 42: GD page 47
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FCCTI:F	{FE 1 D} Fig. 38: FE page 43		{GD 2 B} Fig. 42: GD page 47
FCCTI:G	{FE 2 D} Fig. 38: FE page 43		{GD 1 B} Fig. 42: GD page 47
FCCTI:H	{FE 2 D} Fig. 38: FE page 43	FCHL:G	{GD 0 B} Fig. 42: GD page 47
FCCTI:J	{FE 3 C} Fig. 38: FE page 43		{GD 3 B} Fig. 42: GD page 47
FCDV:A	{FA 0 D} Fig. 34: FA page 39		{GD 2 B} Fig. 42: GD page 47
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FCEN1:B	{XA 3 D} Fig. 72: XA page 77		{GD 1 C} Fig. 42: GD page 47
FCEN1:C	{BC 2 B} Fig. 7: BC page 12		{GD 0 C} Fig. 42: GD page 47
FCEN1:D	{BC 2 B} Fig. 7: BC page 12		{GD 0 C} Fig. 42: GD page 47
FCEN1:E	{XA 0 D} Fig. 72: XA page 77	FCHL:J	{GD 3 C} Fig. 42: GD page 47
FCEN1:F	{XA 1 D} Fig. 72: XA page 77		{GD 2 C} Fig. 42: GD page 47
FCEN1:J	{CB 0 C} Fig. 17: CB page 22		{GD 1 C} Fig. 42: GD page 47
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FCEN2:A	{AC 0 C} Fig. 3: AC page 8	FCHL:M	{GD 2 B} Fig. 42: GD page 47
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FCEN2:C	{AD 3 B} Fig. 4: AD page 9	FCSPJ:C	{FC 4 C} Fig. 36: FC page 41
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OPT3:B	{BI 3 A} Fig. 13: BI page 18	PSOF2:E	{KC 0 C} Fig. 69: KC page 74
OPT4:A	{BE 1 D} Fig. 9: BE page 14	PSOF2:F	{KC 1 C} Fig. 69: KC page 74
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OPT9:1	{BH 2 D} Fig. 12: BH page 17		{KB 2 D} Fig. 68: KB page 73
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PM3:1	{AB 1 D} Fig. 2: AB page 7		{KB 2 B} Fig. 68: KB page 73
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PM7:4	{HB 1 B} Fig. 51: HB page 56		{KB 2 D} Fig. 68: KB page 73
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SP401-ES	{EB 2 C} Fig. 33: EB page 38	SP498RR-	{KC 3 B} Fig. 69: KC page 74
SP401-L	{XA 1 D} Fig. 72: XA page 77	SP498RR+	{KC 3 B} Fig. 69: KC page 74
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SP59	{GI 3 C} Fig. 47: GI page 52	SPA146	{DF 3 B} Fig. 29: DF page 34
SP592B	{CB 1 C} Fig. 17: CB page 22	SPA149A	{DE 2 D} Fig. 28: DE page 33
SP597	{BA 2 C} Fig. 5: BA page 10	SPA161	{DF 2 C} Fig. 29: DF page 34
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SP639	{DP 1 C} Fig. 31: DP page 36	SPANODE"X"	{AD 1 C} Fig. 4: AD page 9
SP639_FC	{DP 0 C} Fig. 31: DP page 36	SPAUX-0	{NA 3 D} Fig. 71: NA page 76 {NA 2 D} Fig. 71: NA page 76 {NA 1 D} Fig. 71: NA page 76
SP639A	{DP 2 B} Fig. 31: DP page 36	SPBASE	{AC 3 D} Fig. 3: AC page 8 {GP 3 E} Fig. 48: GP page 53 {CE 2 D} Fig. 19: CE page 24
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SP700	{IC 2 D} Fig. 59: IC page 64	SPCATHODE"Y"	{AD 1 B} Fig. 4: AD page 9
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SPV196C {JB 1 C} Fig. 65: JB page 70

Glossary

ABS	Antilock brake system	L5	Long high cab, VN780
ATC	Automatic temperature control	LECM	Living Environment Control Module (Sleeper Control Panel)
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	LH	Left hand side
BBOX	Battery box	LR	Left rear
CLU	Central locking unit	MECHTRAN	Mechanical transmission
CU-BAS	Basic version with stepper motor without air condition	MUF-HOR	Horizontal muffler
CU-ECC	Electronic controlled climate control air condition	PH-CAB	Cab parking heater
CU-HEAT	Heater unit	PTO	Power take off
CU-MCC	Manual controlled climate control air condition	RCU	Remote control unit
EBR-EPG	EPG (Exhaust Pressure Governor)	RF	Right front
EBR-EXH	Exhaust Brake	RHD	Right hand drive
EBR-VEB	Volvo Engine Brake	RH	Right hand side
ELCE-CK	Electrical complete kit for body builder	RR	Right rear
ENG-VE12	Volvo engine 12 liter	SRS	Supplementary restraint system
HL-BASIC	Basic headlamps	STWPOS-L	Steering wheel position left hand side
LCM	Light control module	STWPOS-R	Steering wheel position right hand side
L1H1	Day cab	SWM	Steering wheel module
L3H1	Medium cab, VN430	TL	Tail lamps
L4H2	Long high cab, VN630	VECU	Vehicle electronic control unit
L4H4	Long high cab, VN670	VL or VAL	Volvo Link Satellite Communication System

Wire Color Codes

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

Note: If a wire has two colors, it is written like the following example: Y/R = Yellow/Red.

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