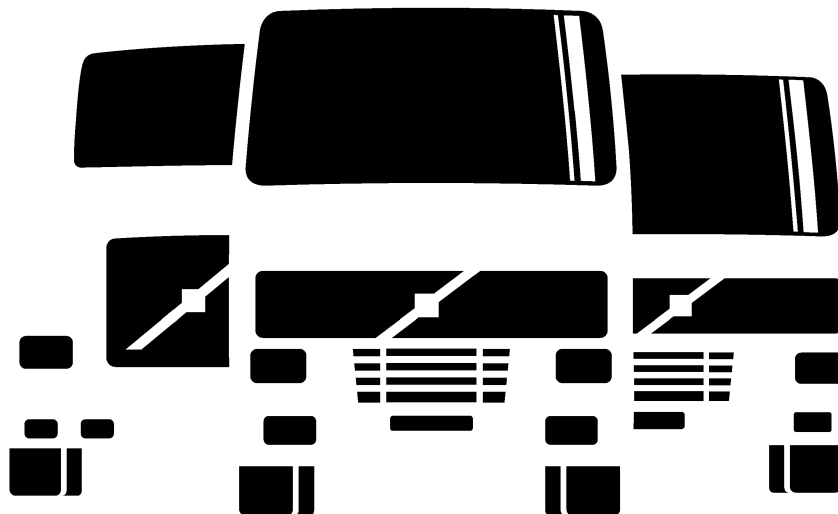


Service Manual Trucks

Group **37**

Electrical Schematic
VN, VHD VERSION2

From Build Date Nov. 2002



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to August 2003.

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.

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

Note: Indicates a situation, handling or circumstance which should be observed.

Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to property.

Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury or major damage to property.

Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Volvo Trucks North America, Inc.
Greensboro, NC USA

Order number: PV776-TSP187158

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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 141

“Reference List: Components” page 144

“Reference List: Inline Connectors” page 150

“Glossary” page 160

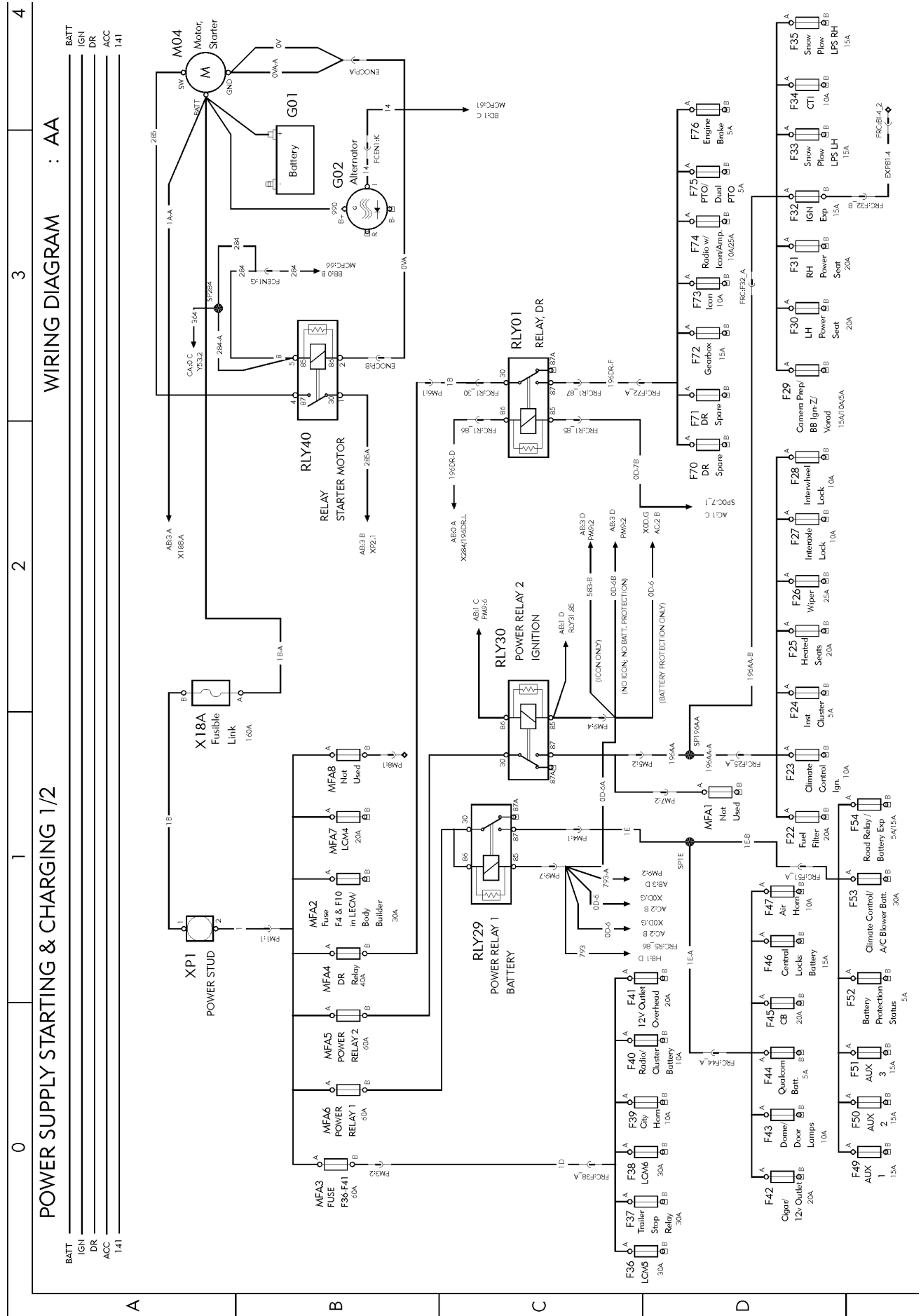
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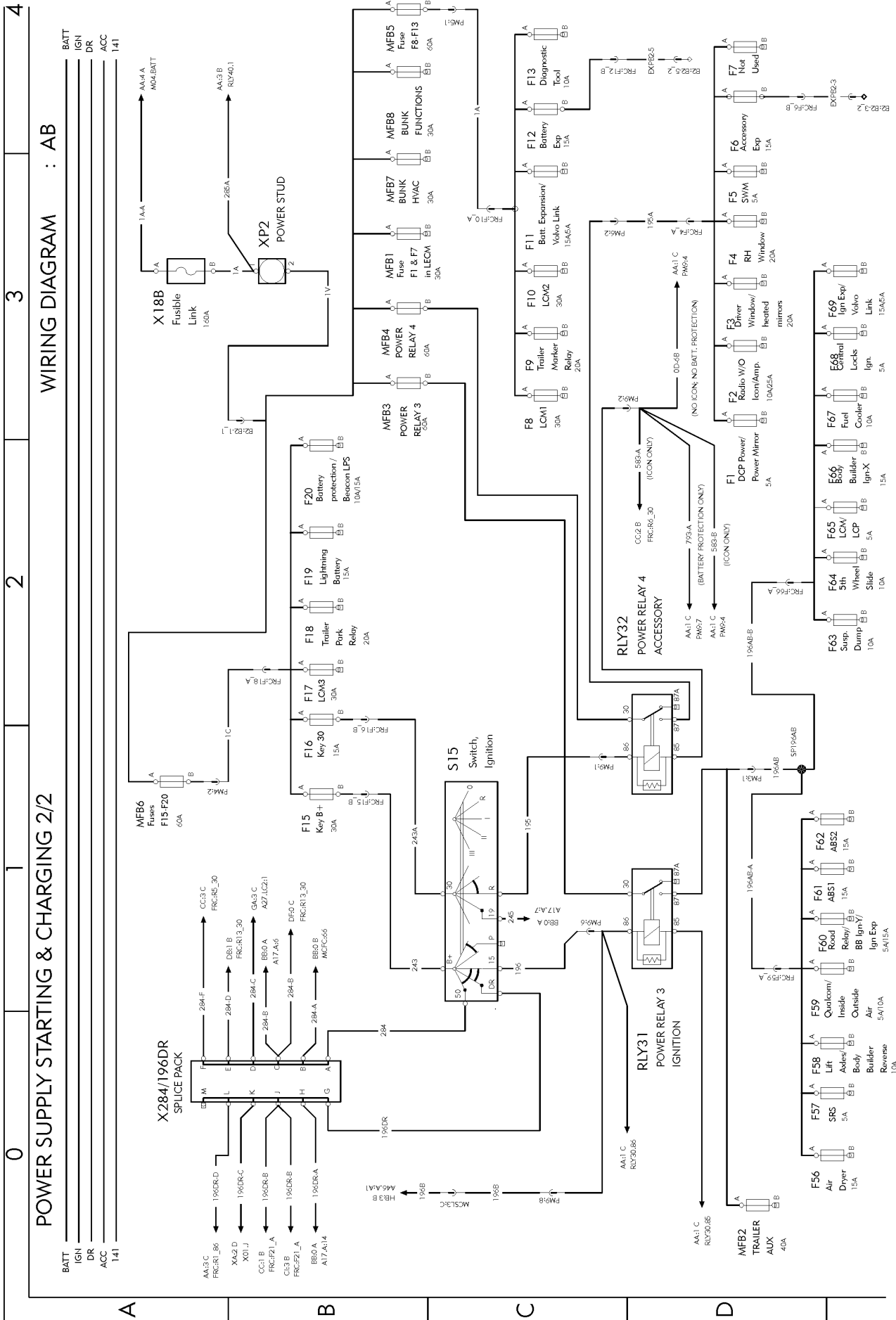
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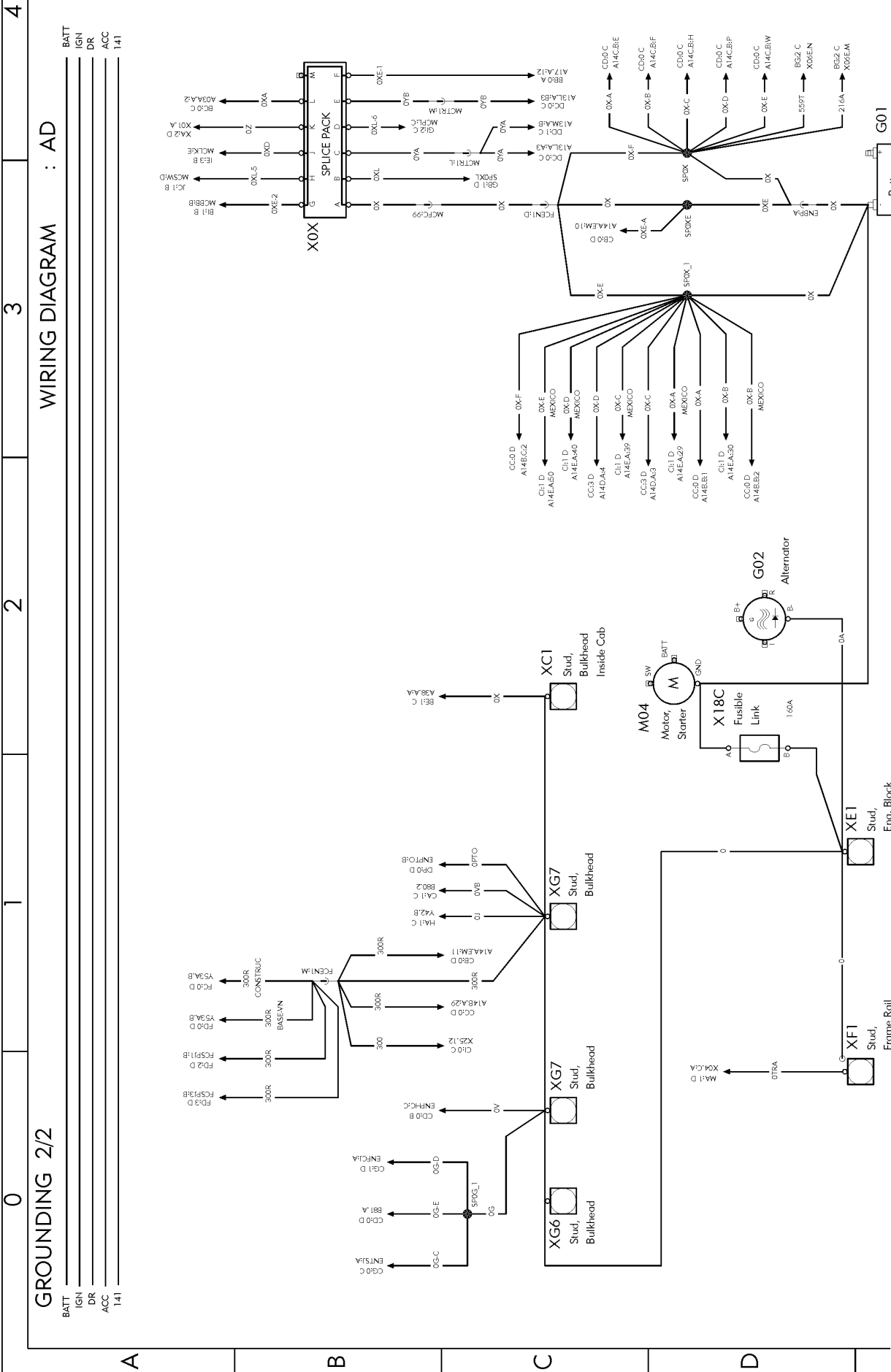
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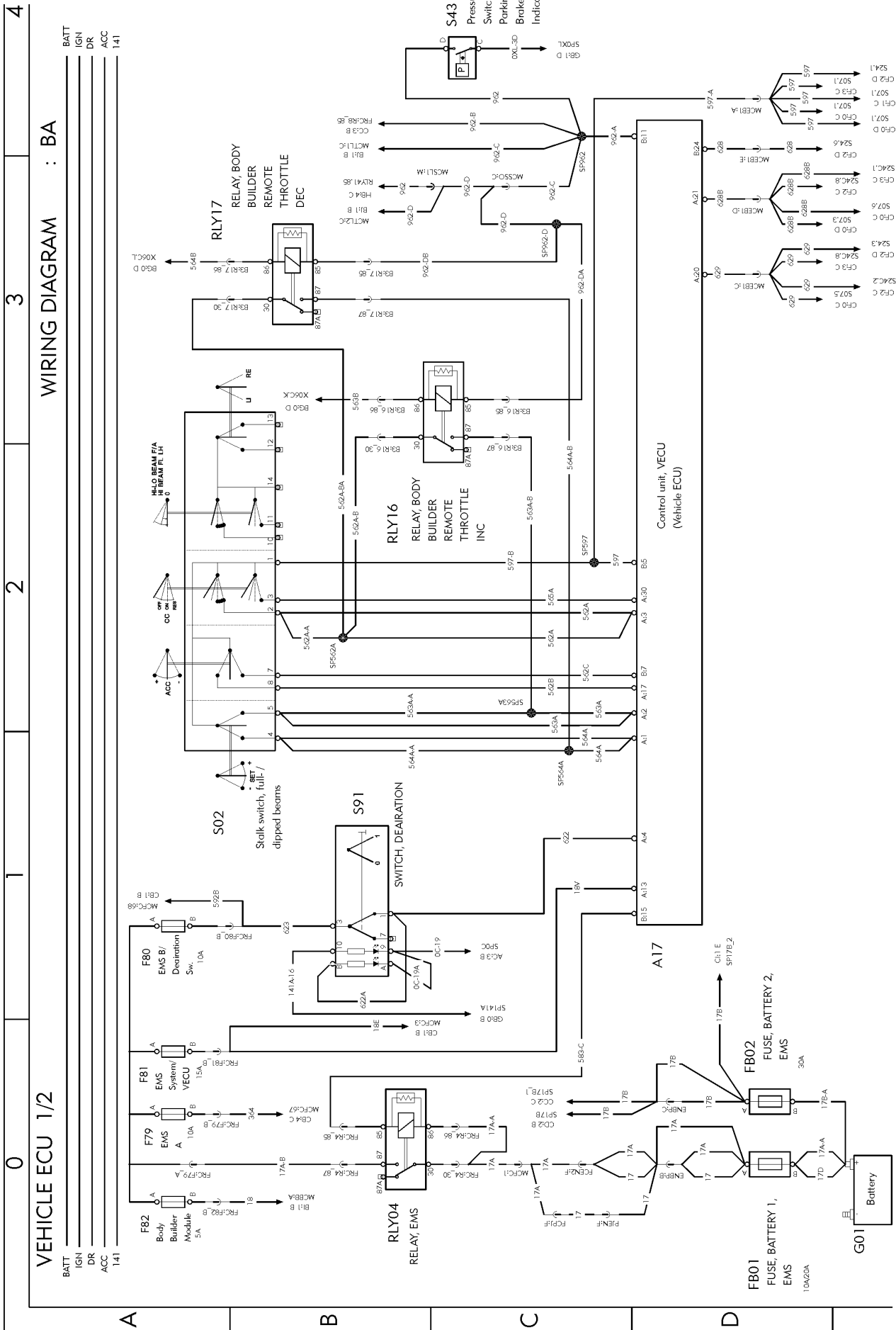


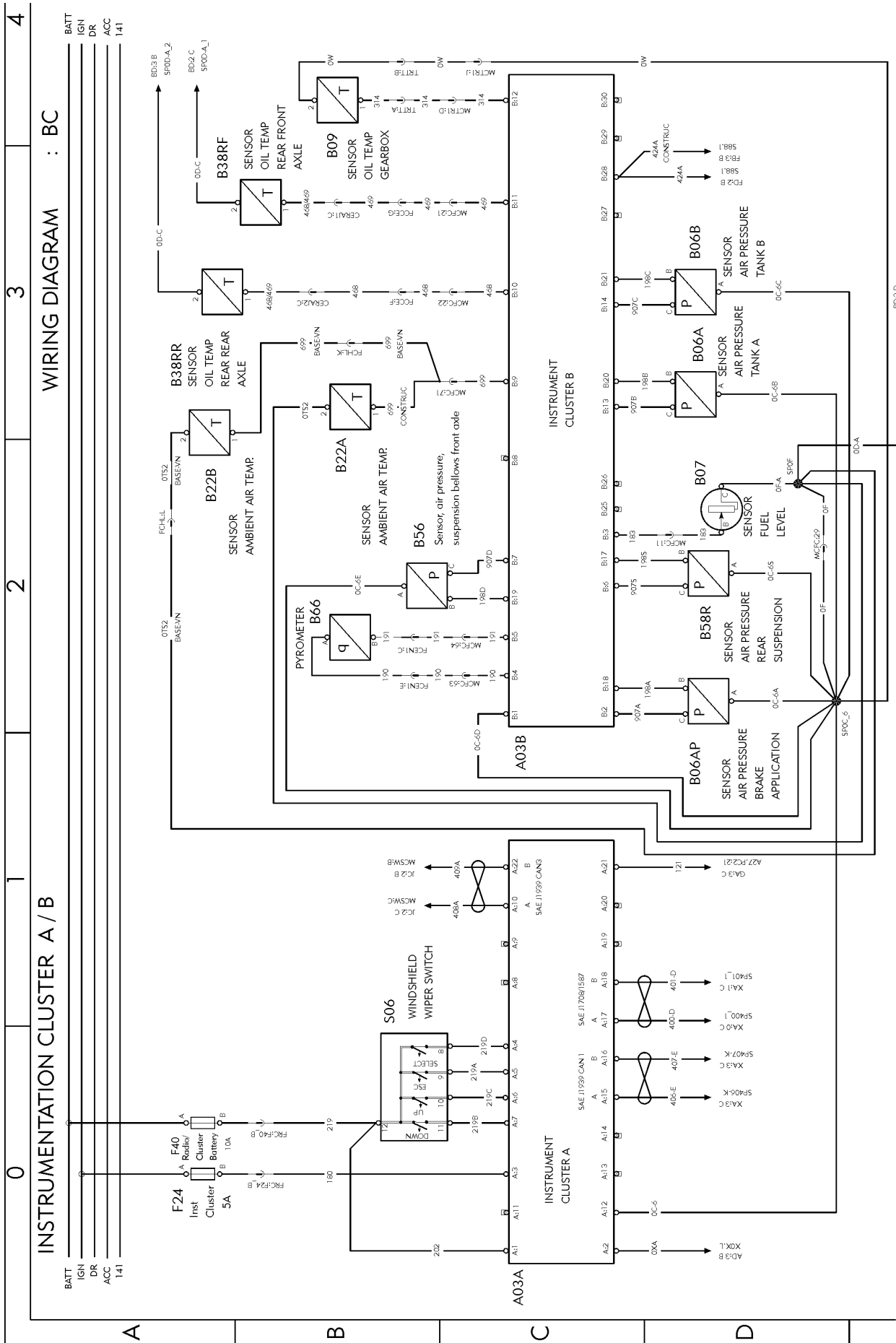
WIRING DIAGRAM : AA

POWER SUPPLY STARTING & CHARGING 1/2

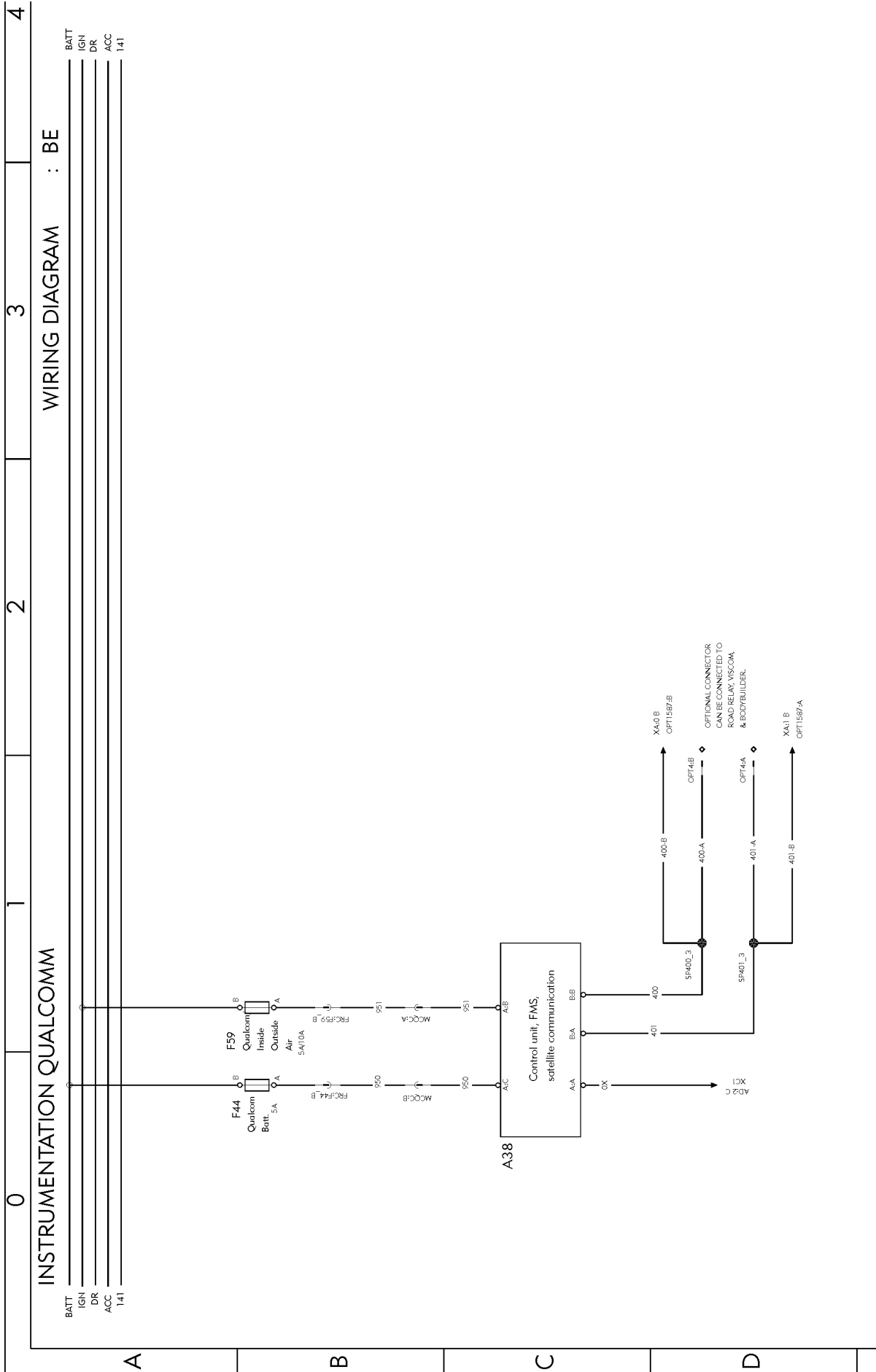


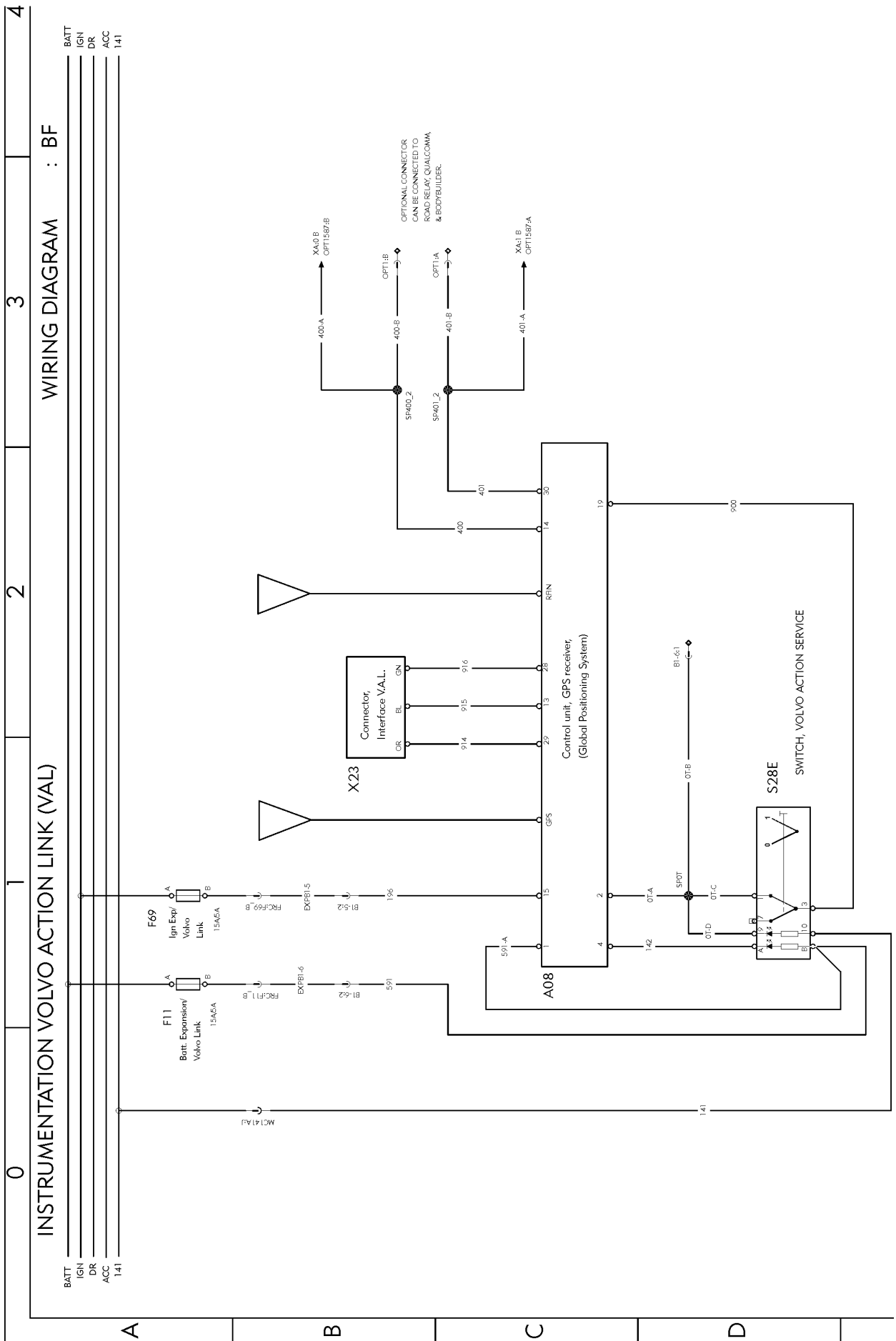


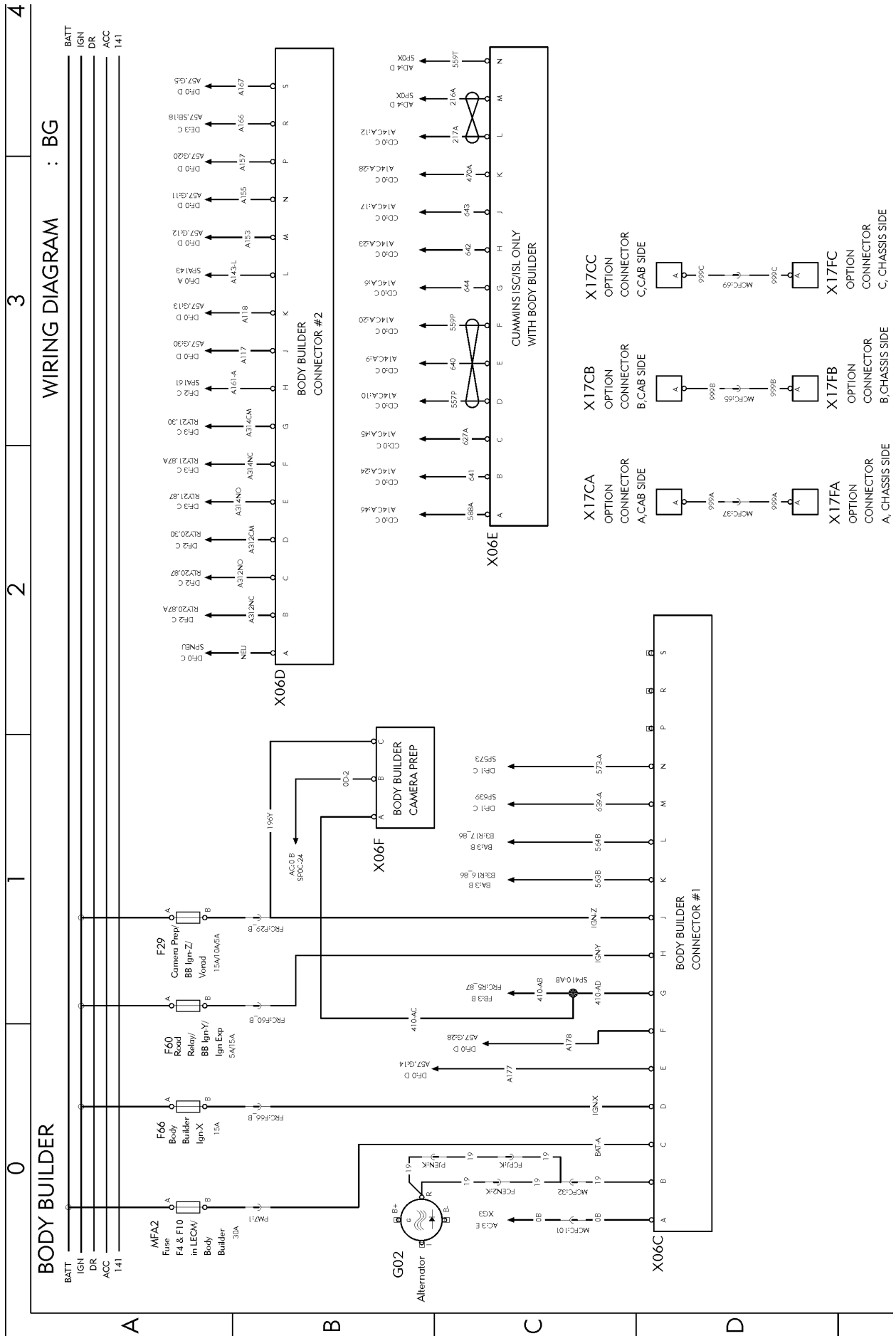


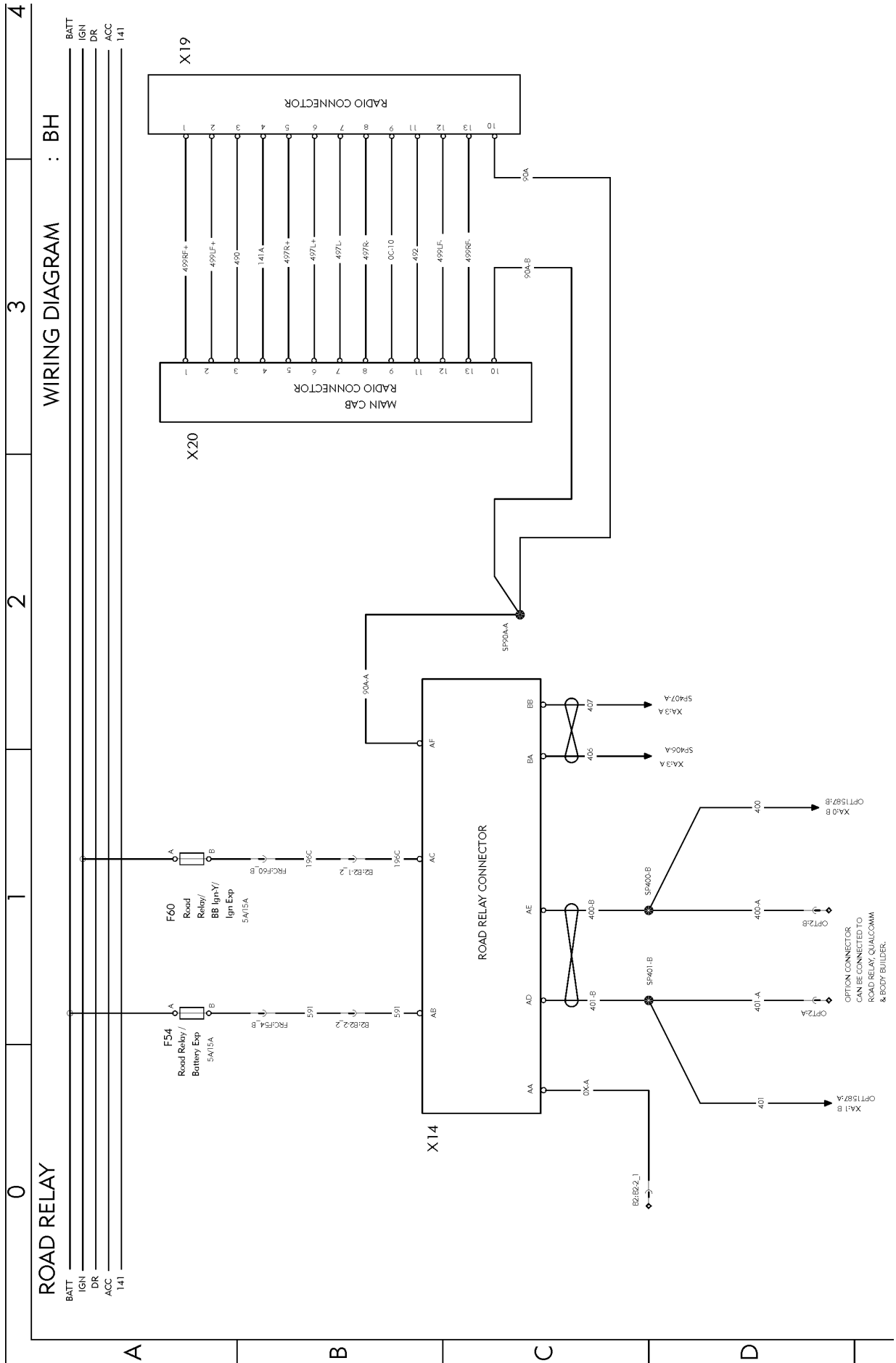


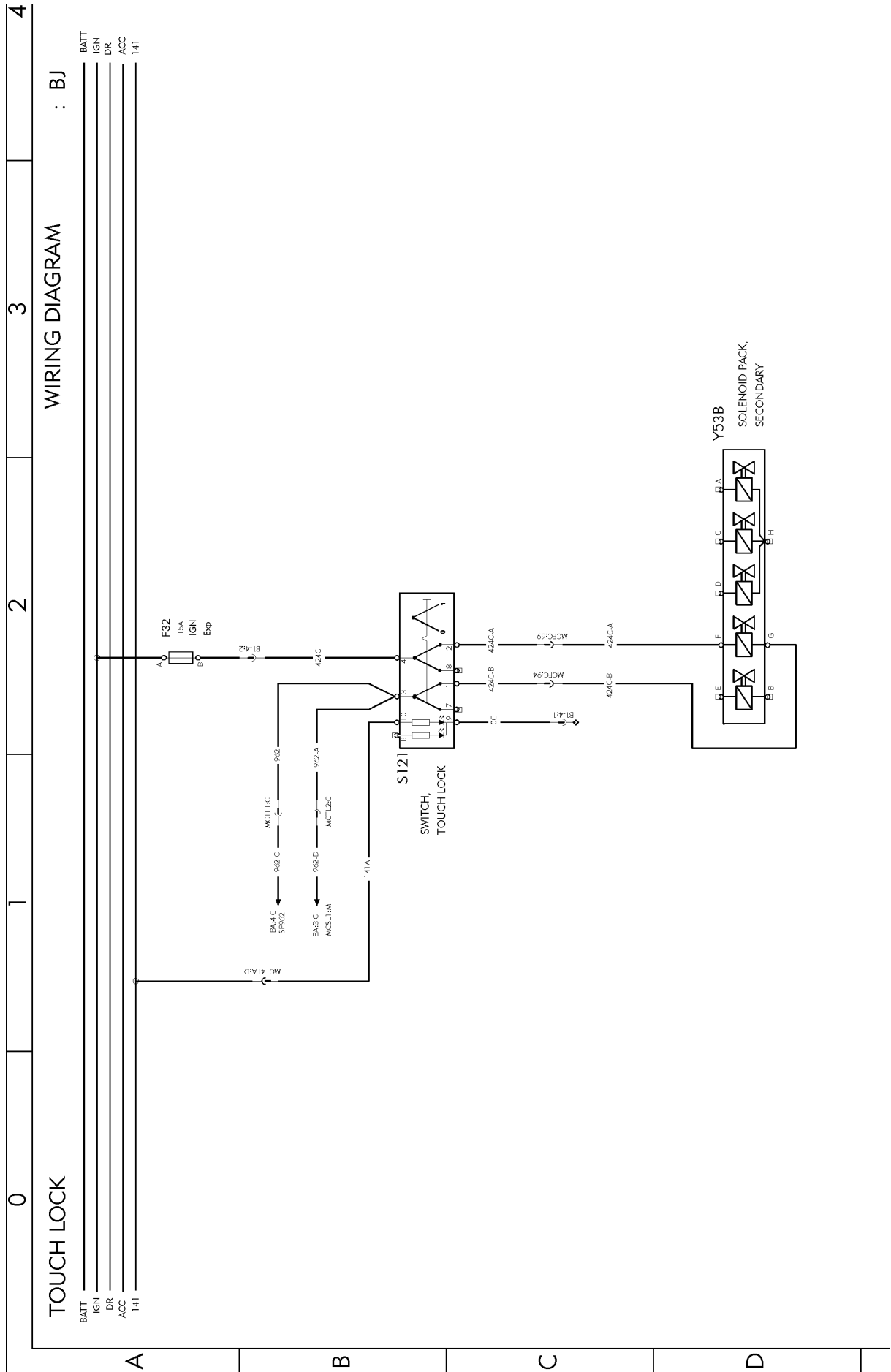


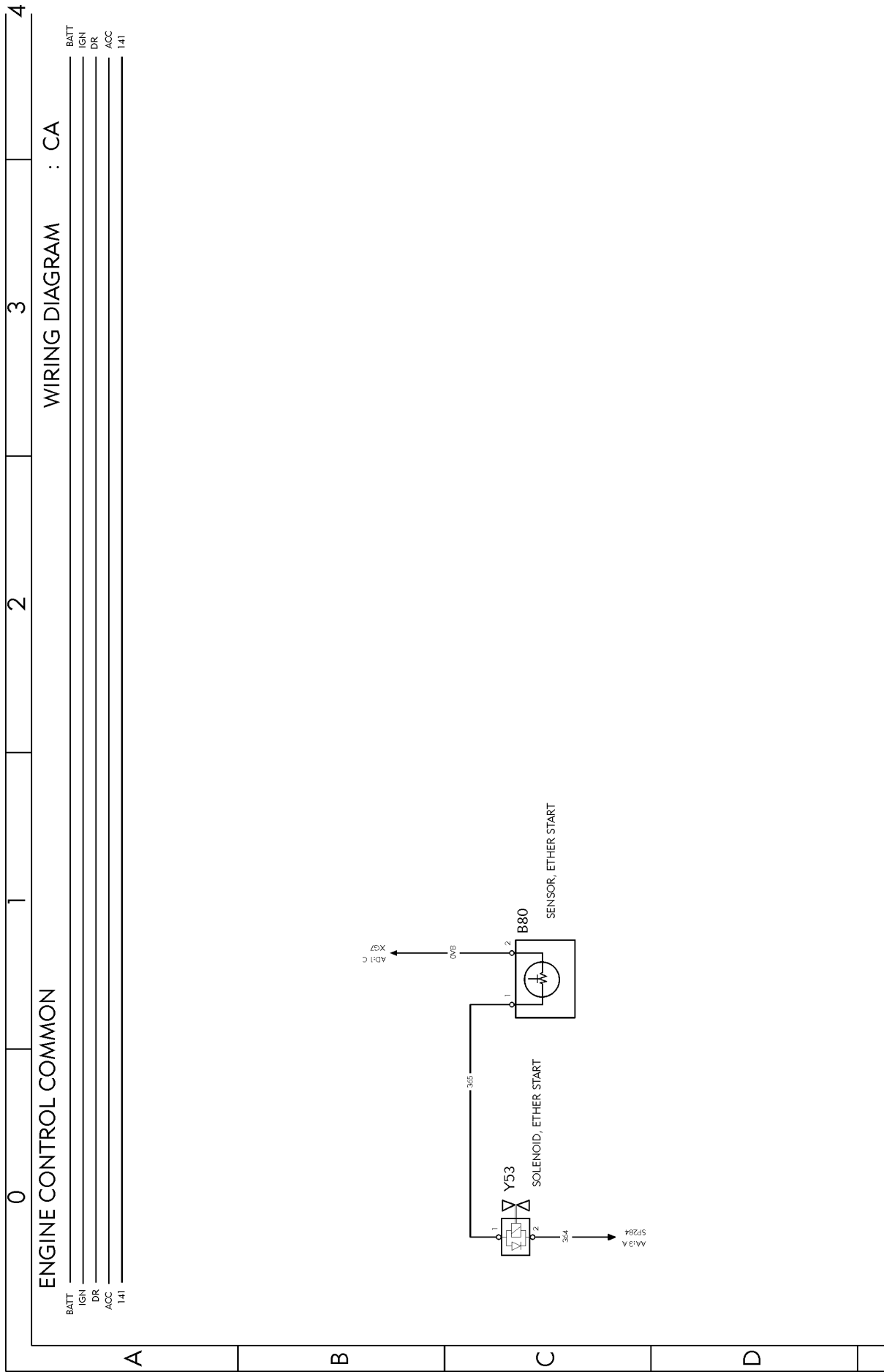


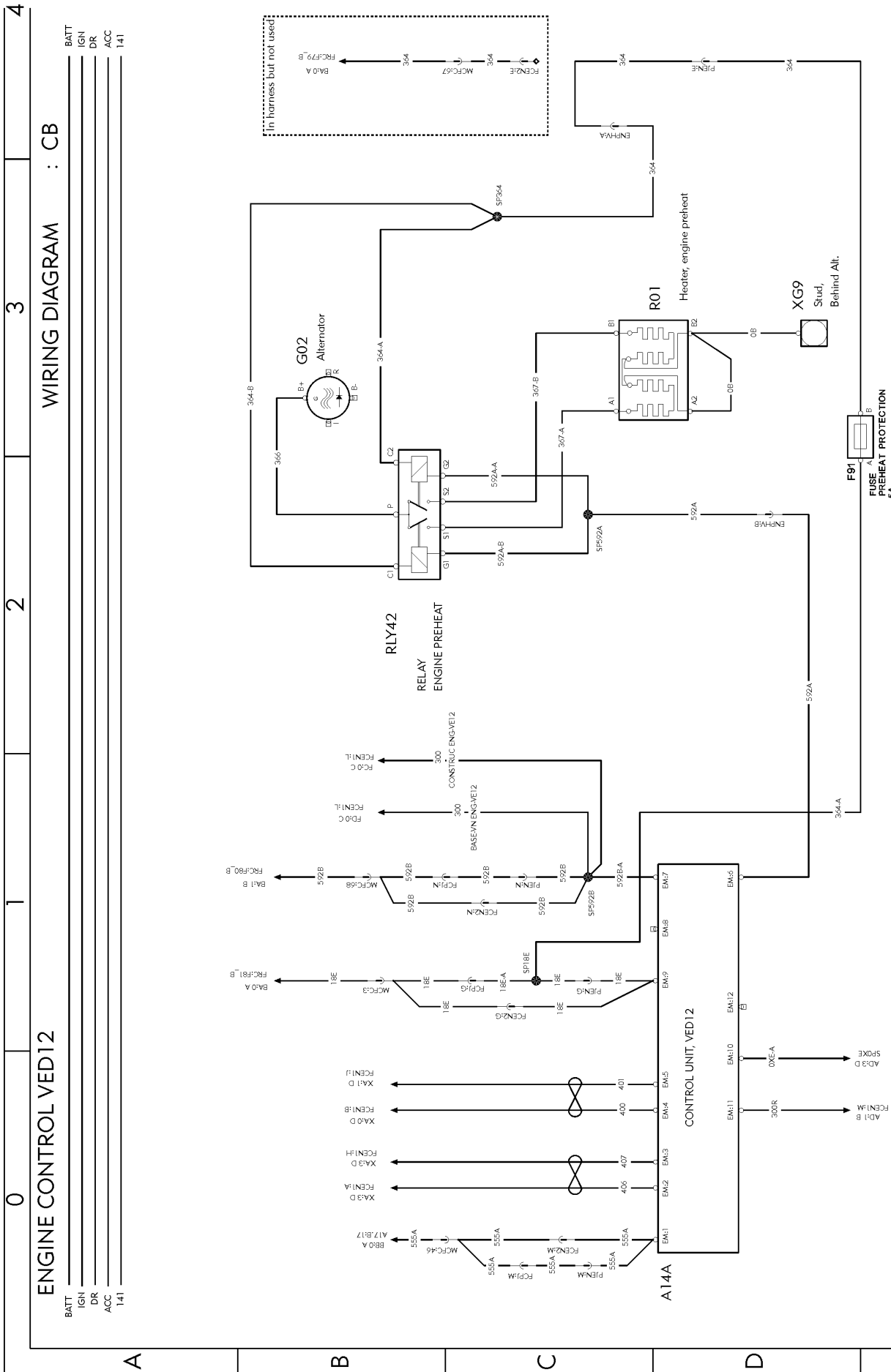


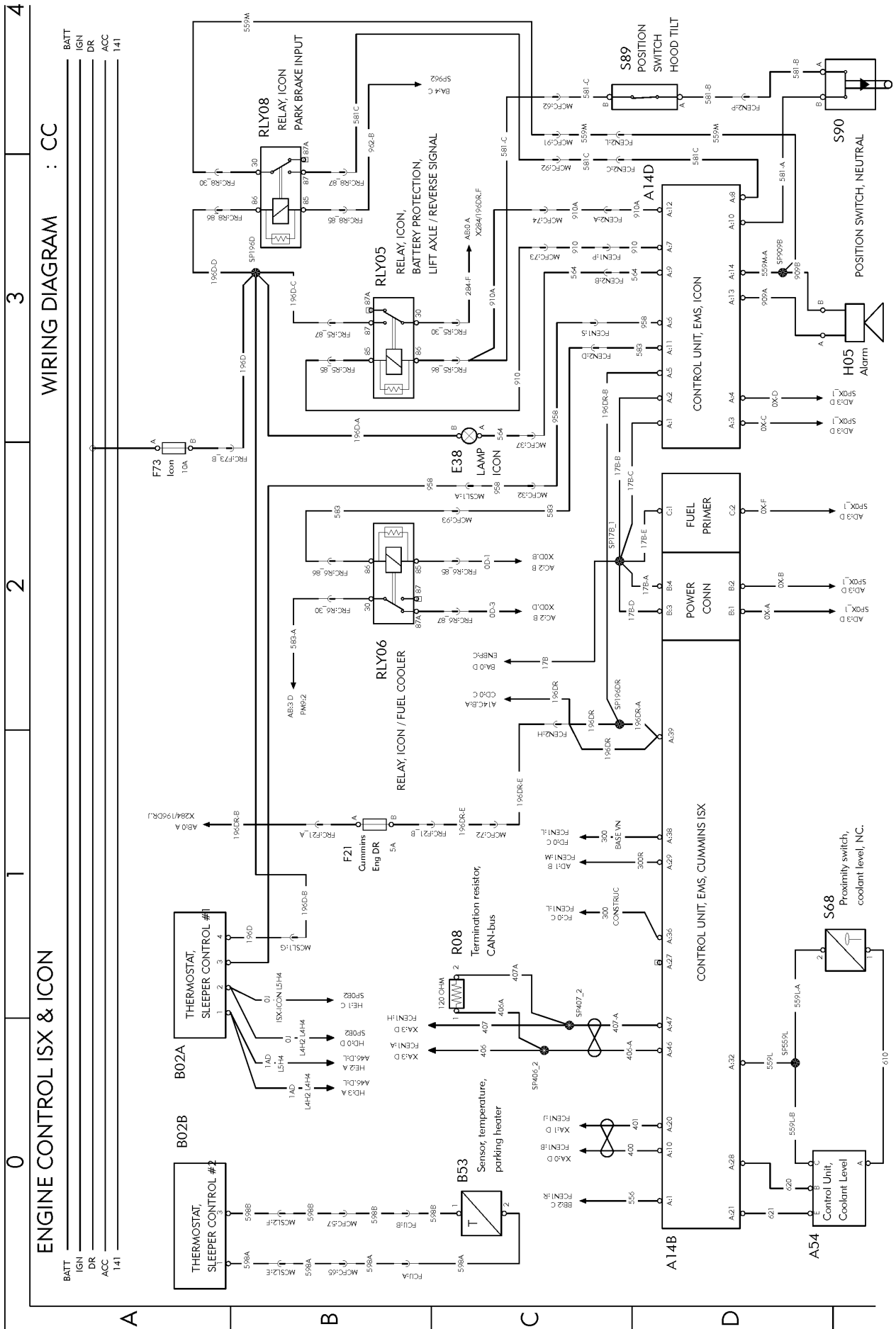


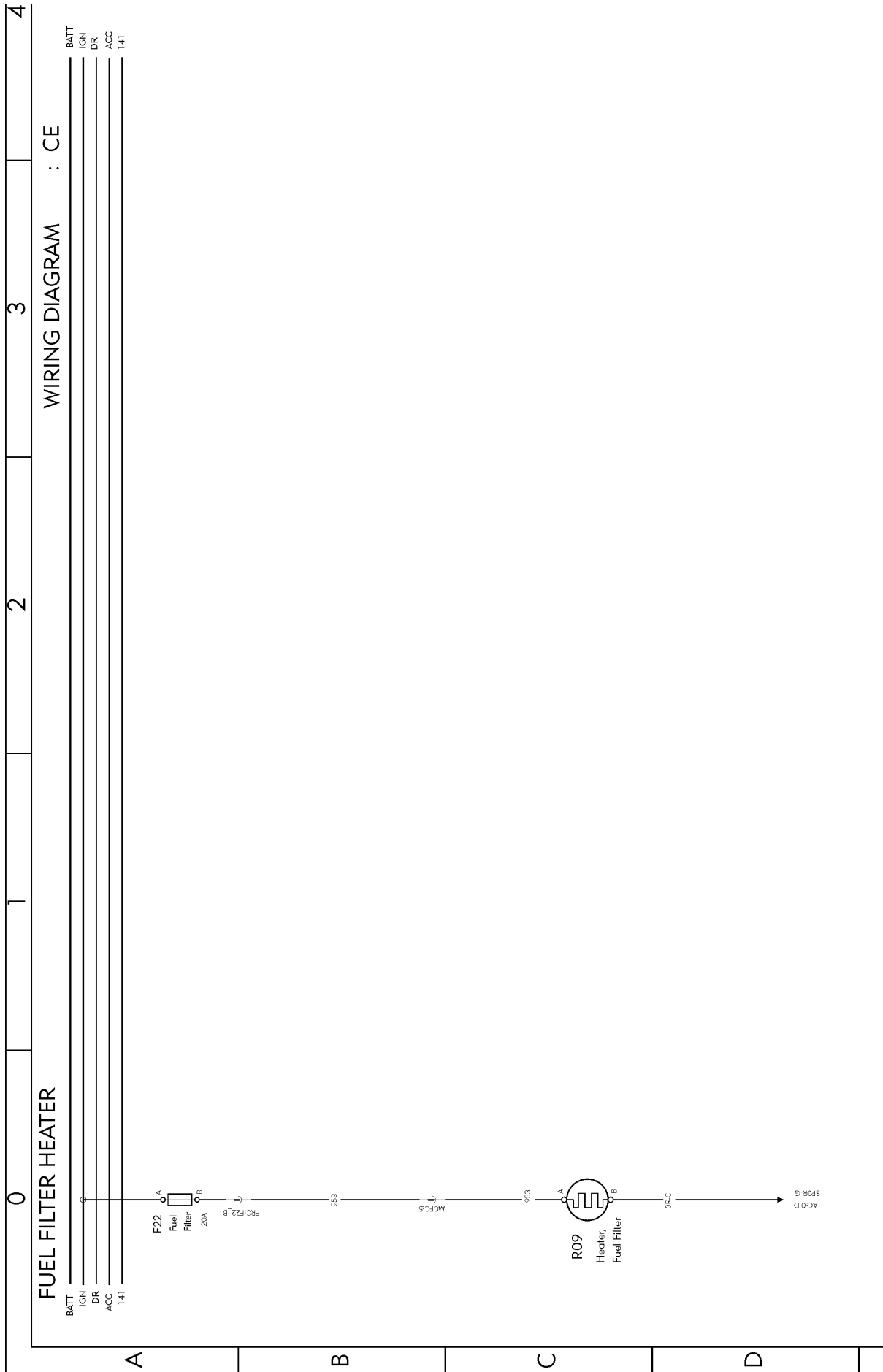


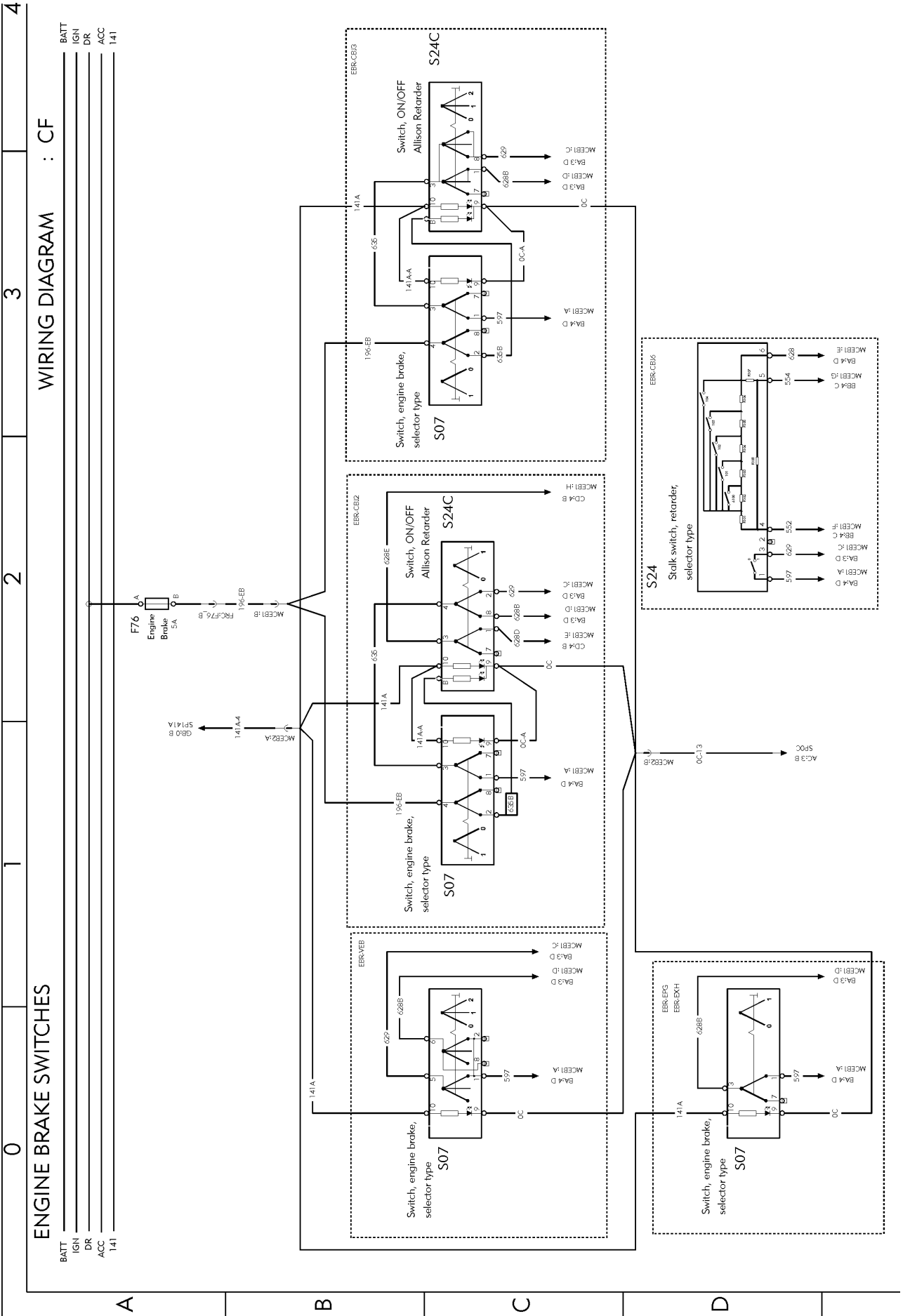


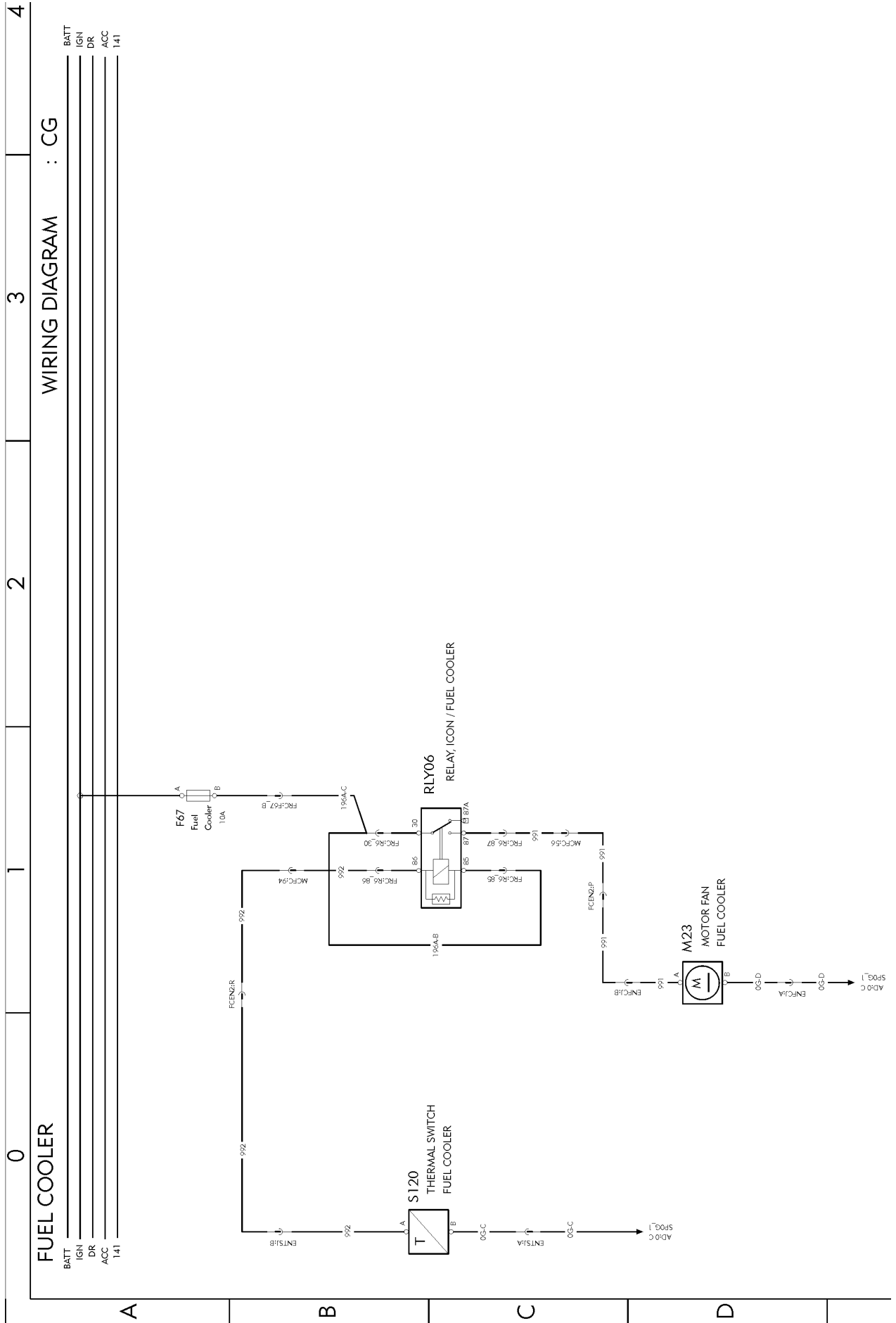


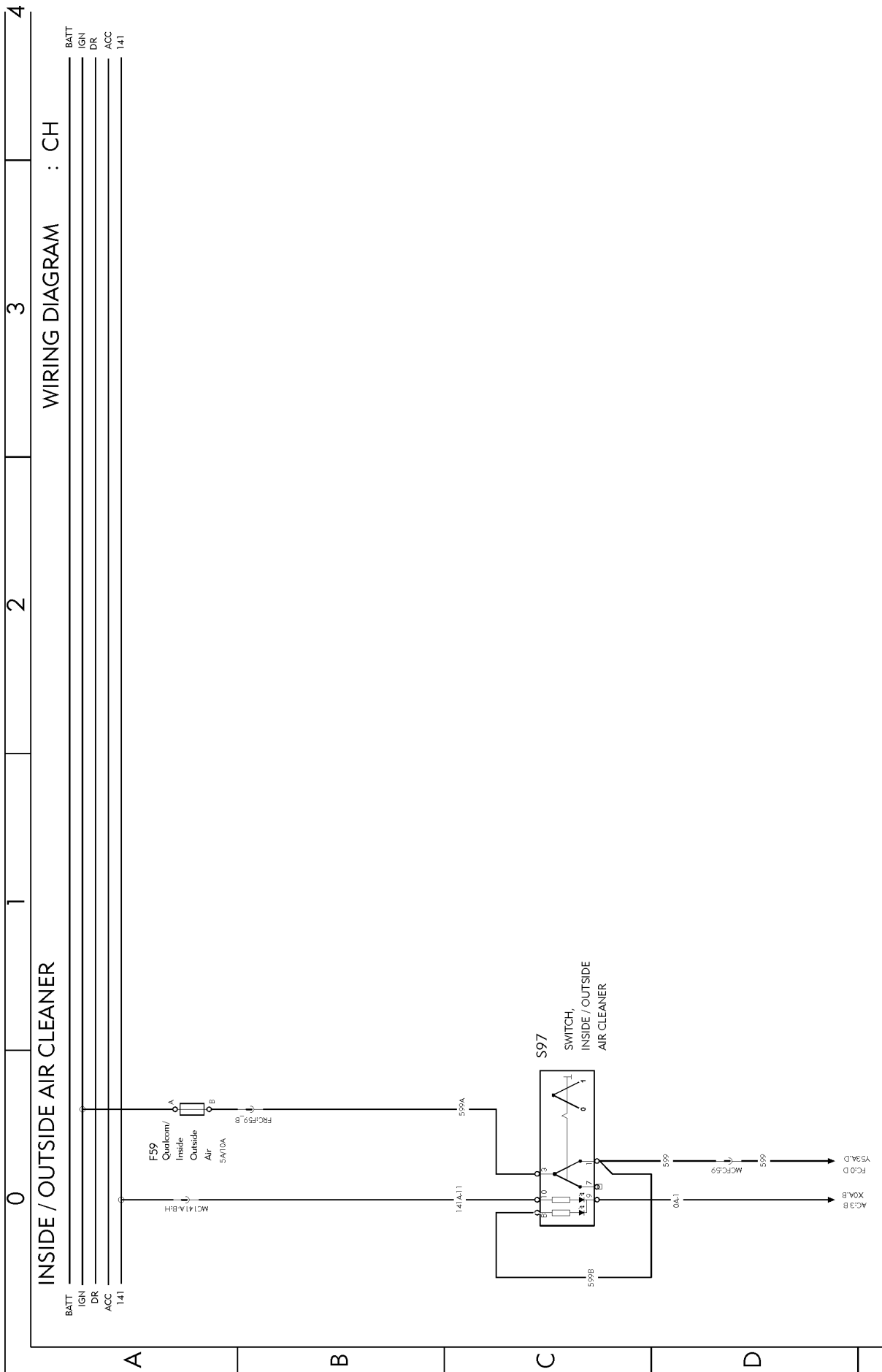


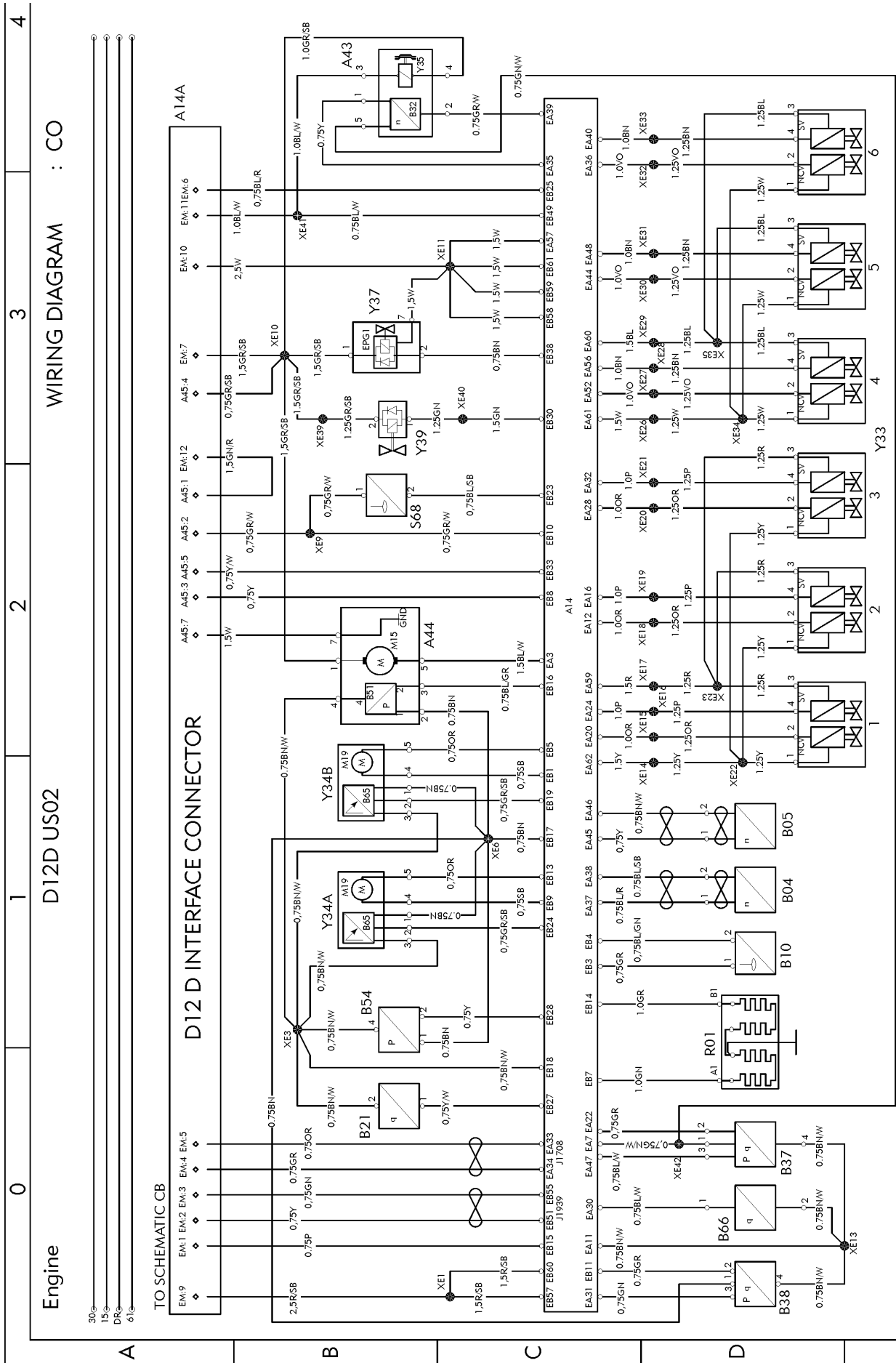


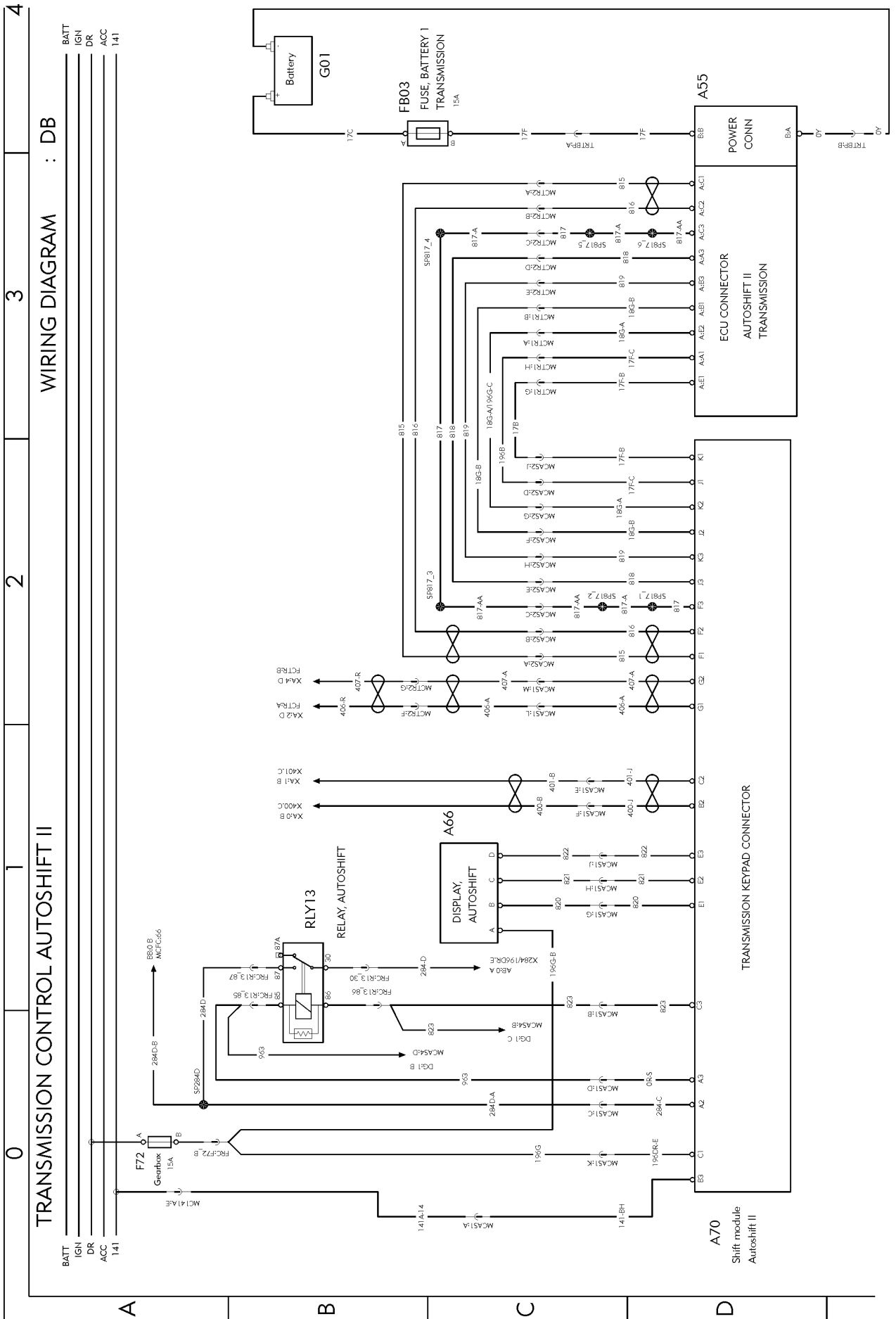


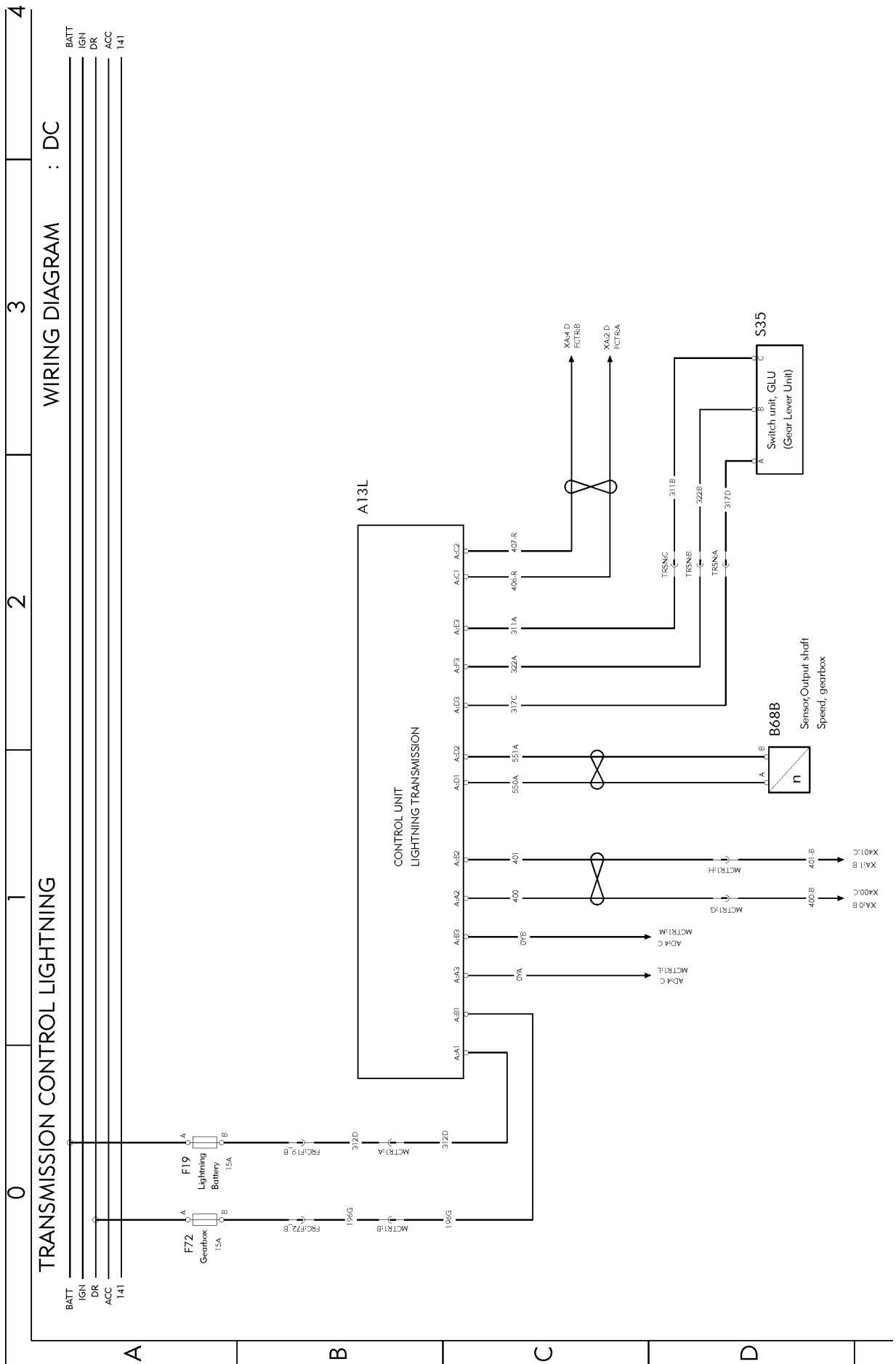


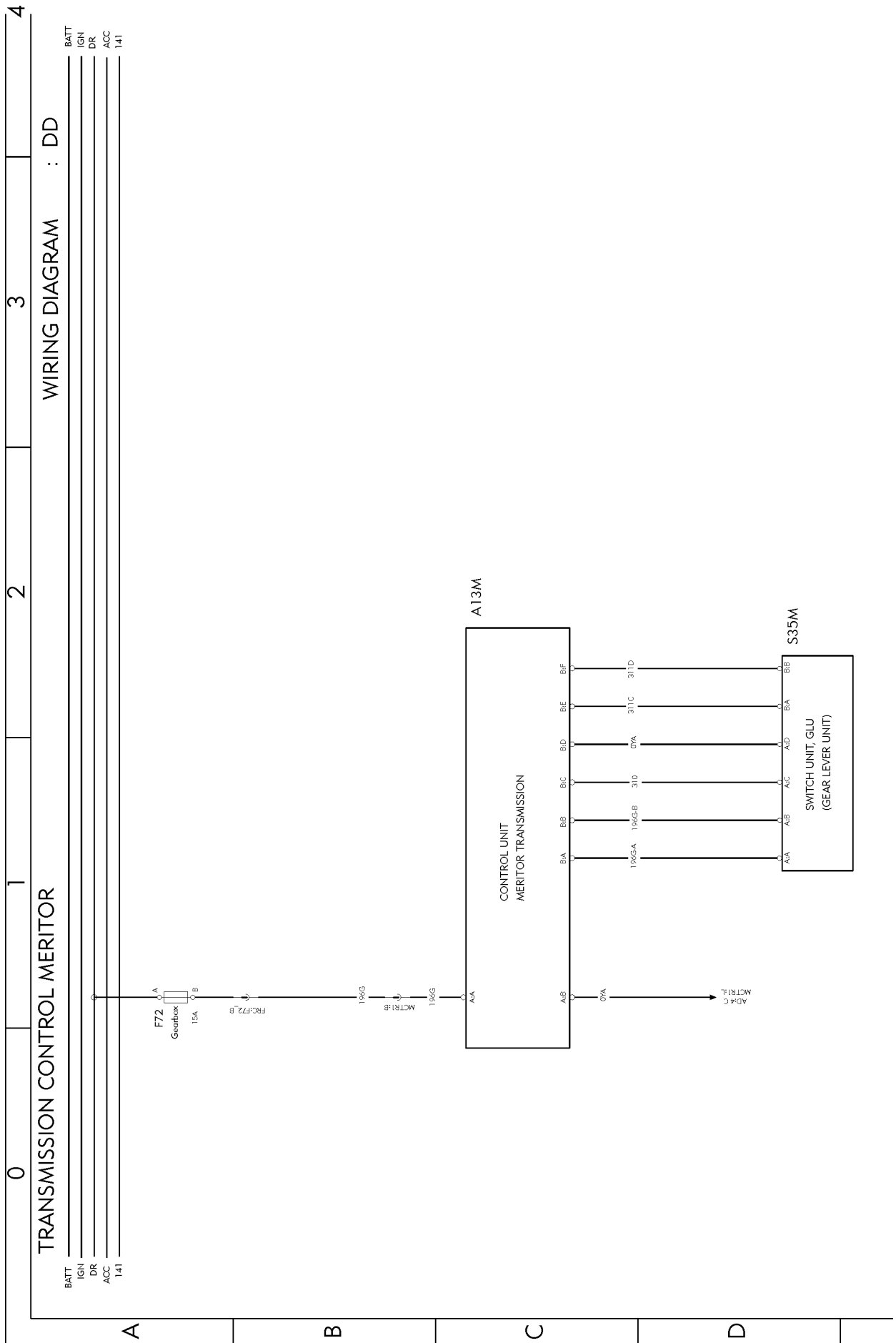


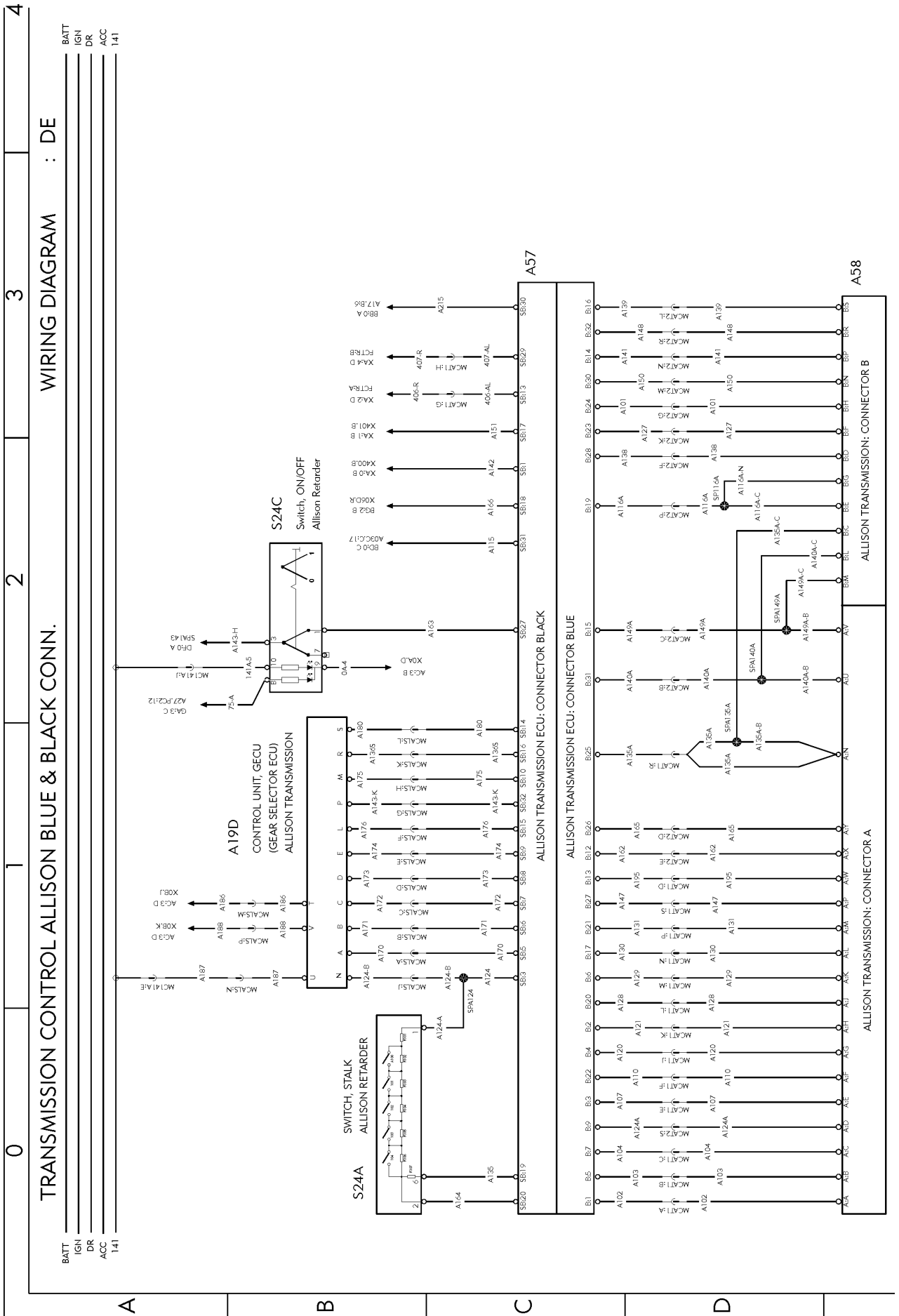


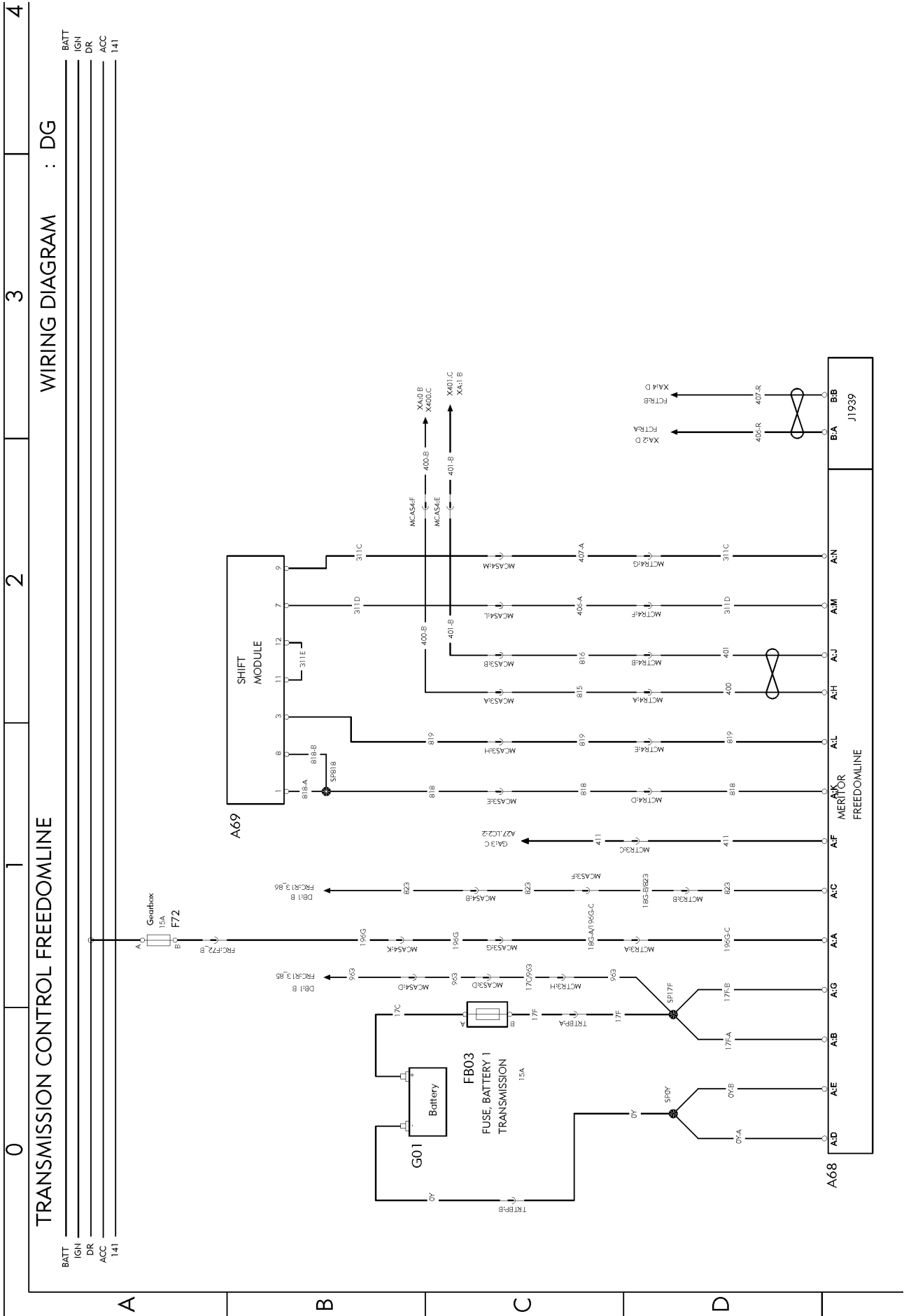


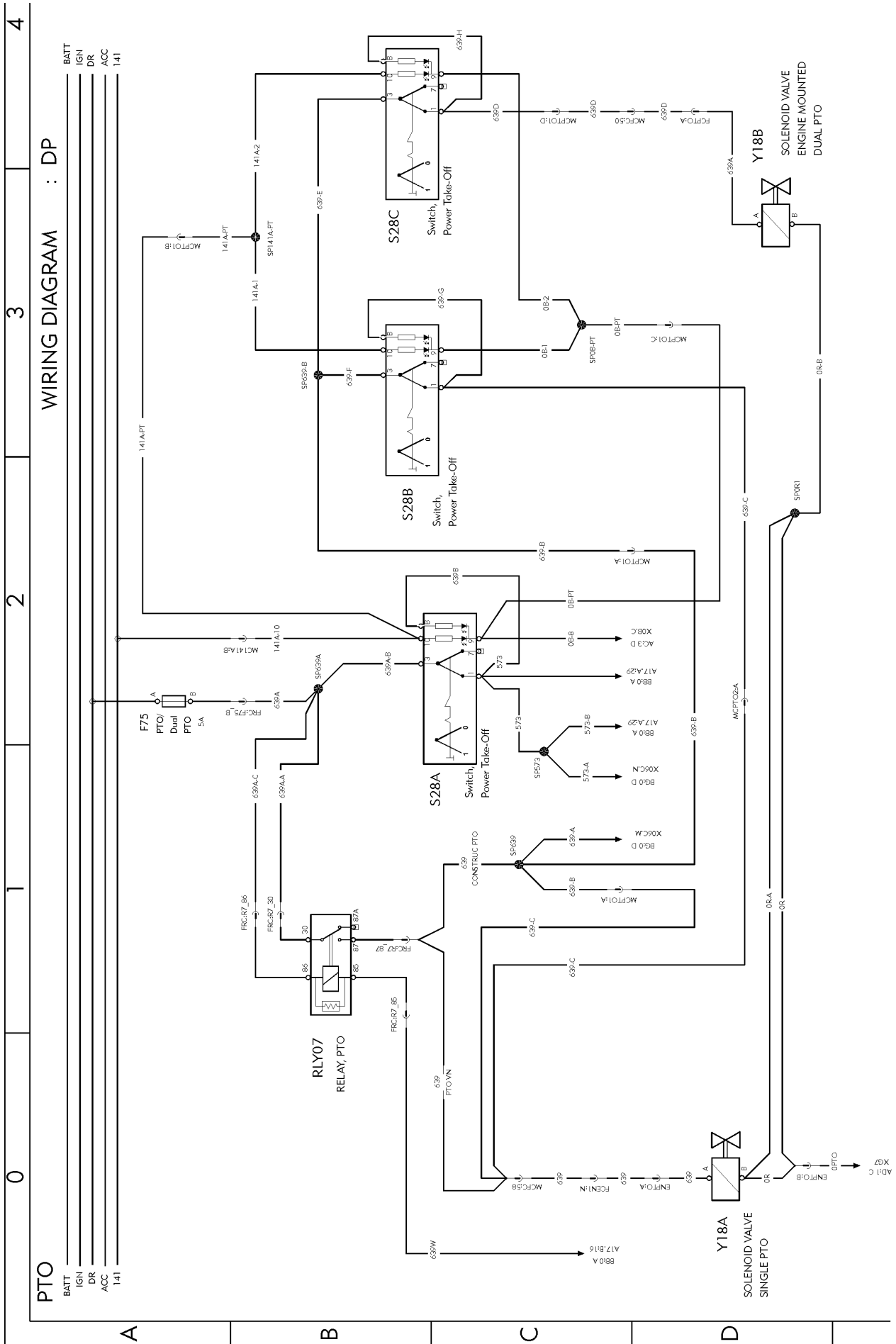


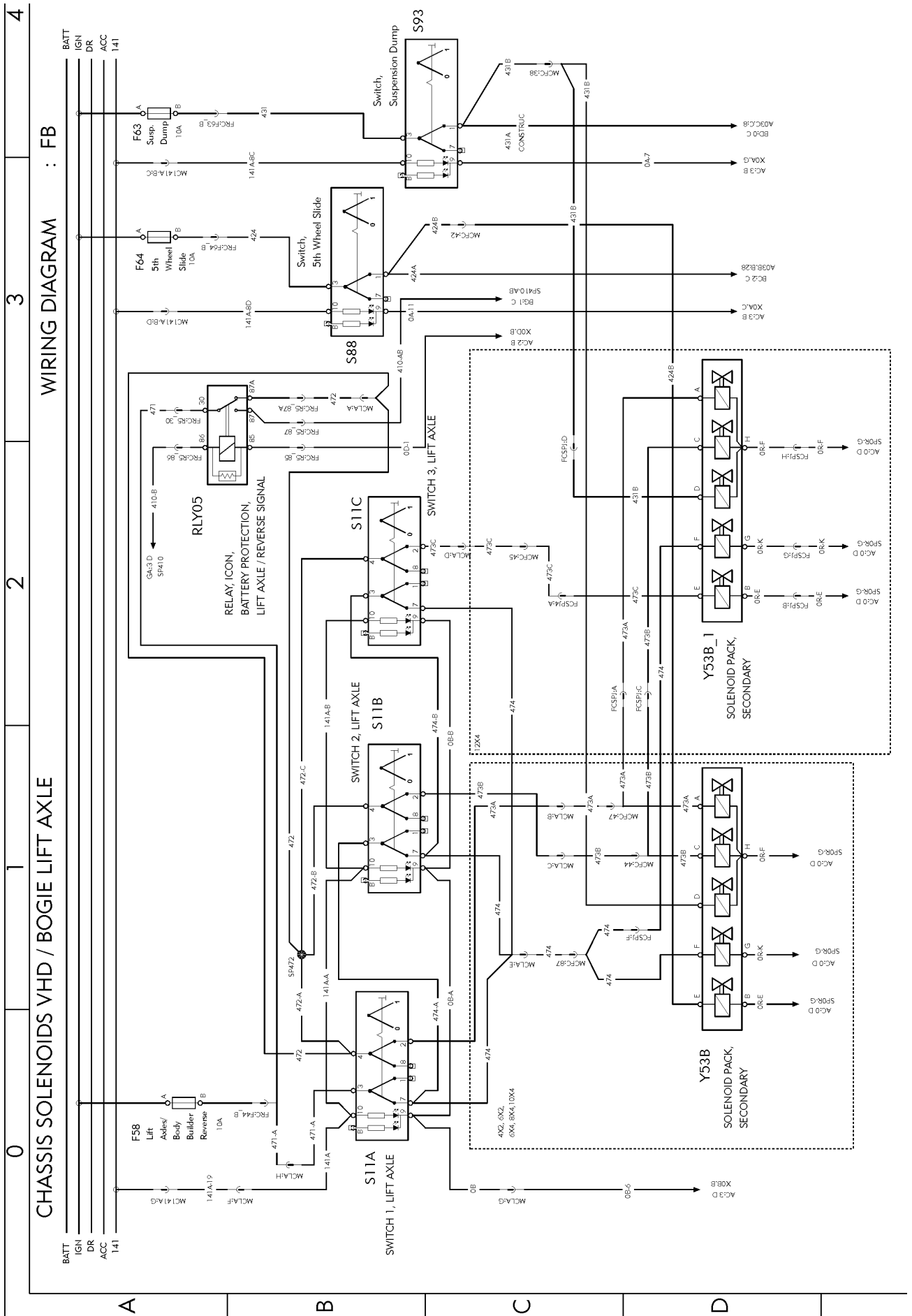




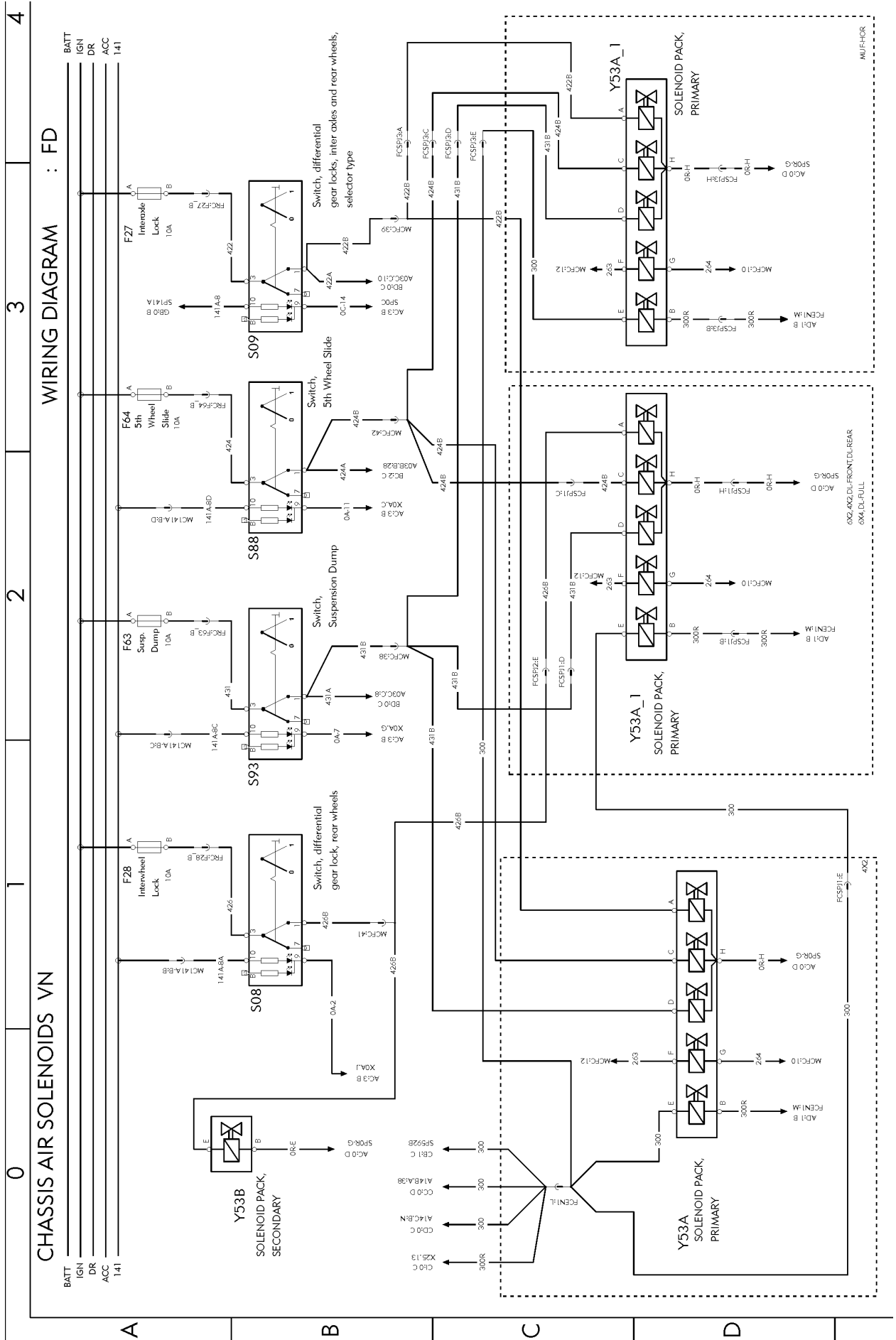


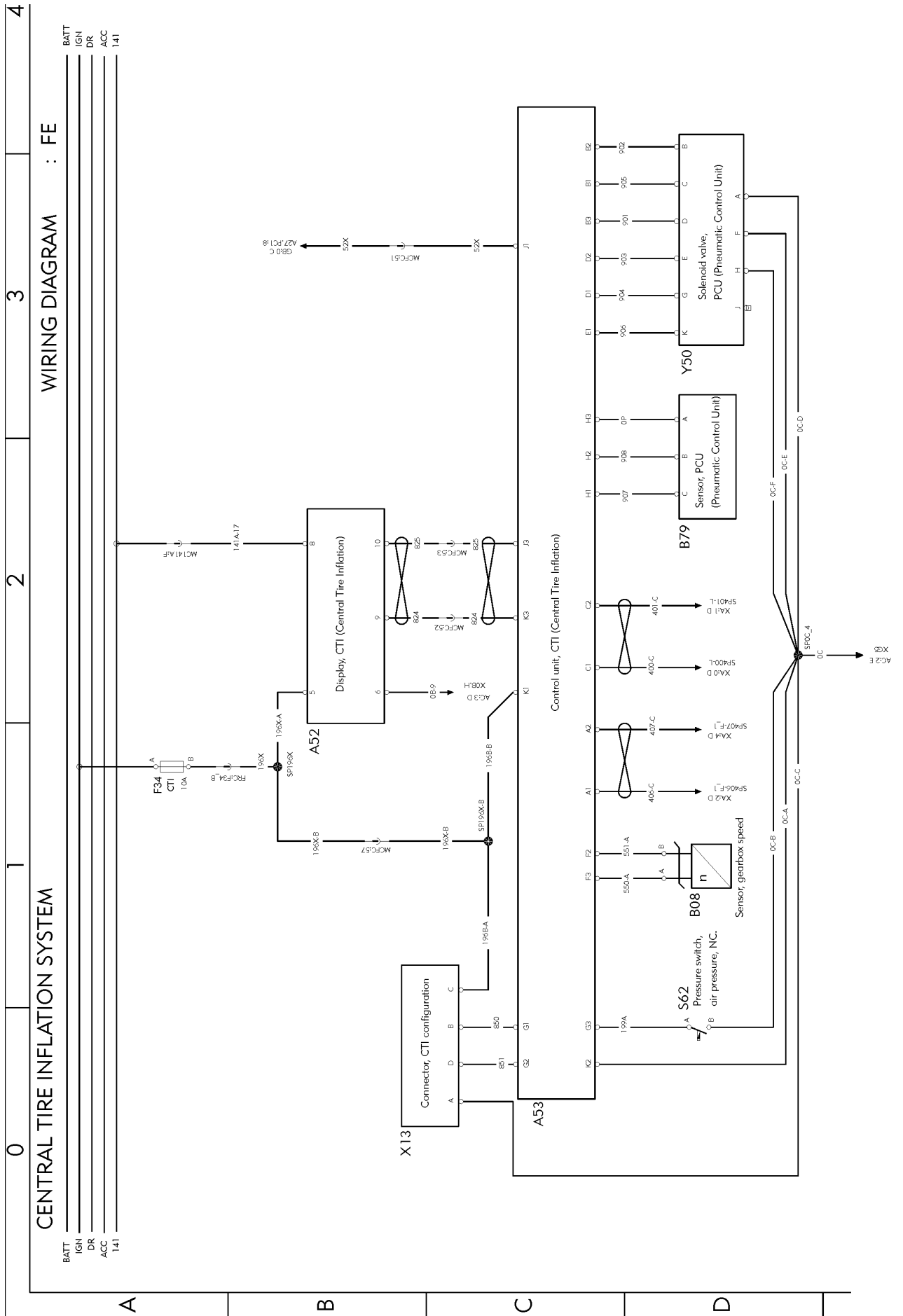


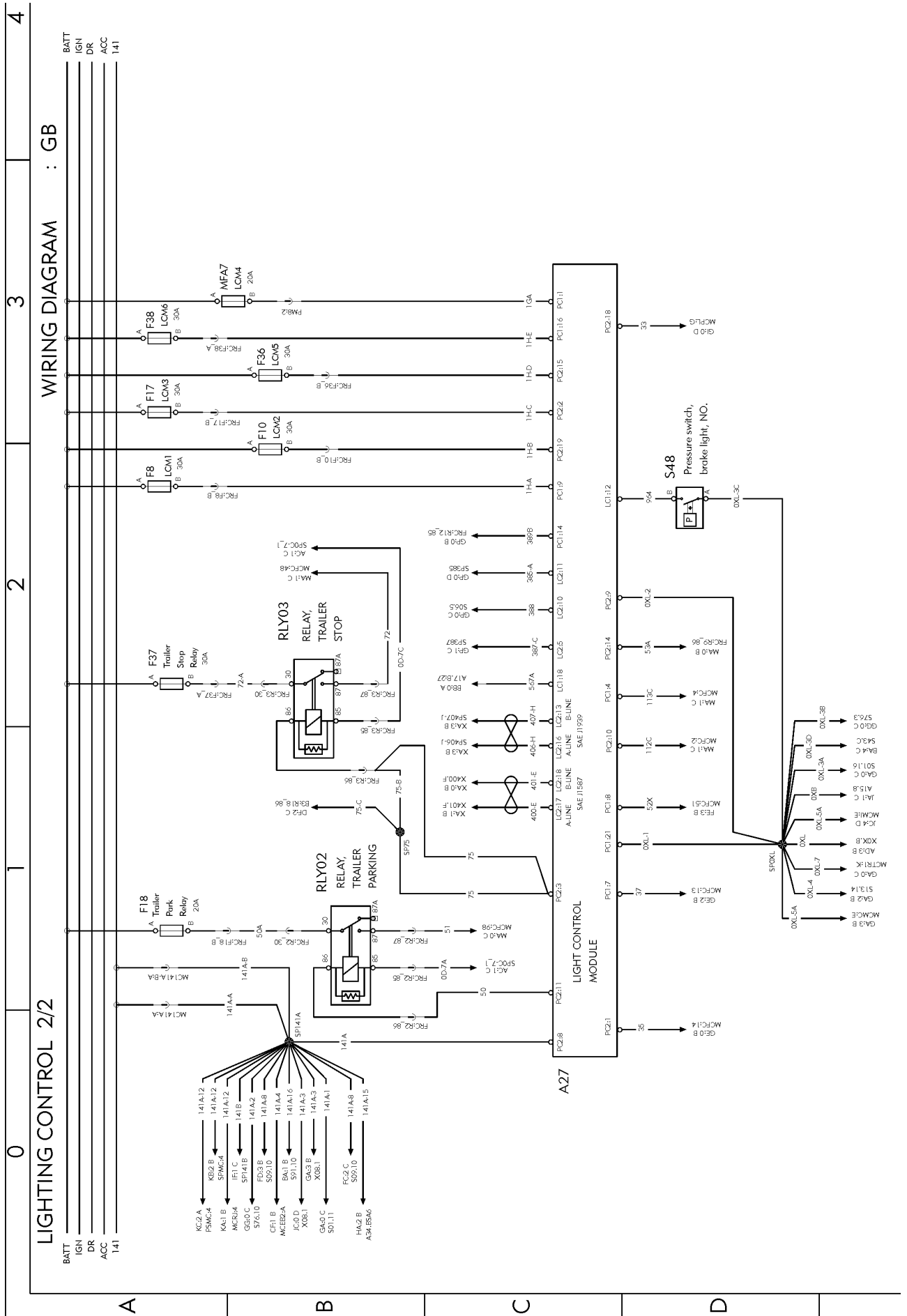


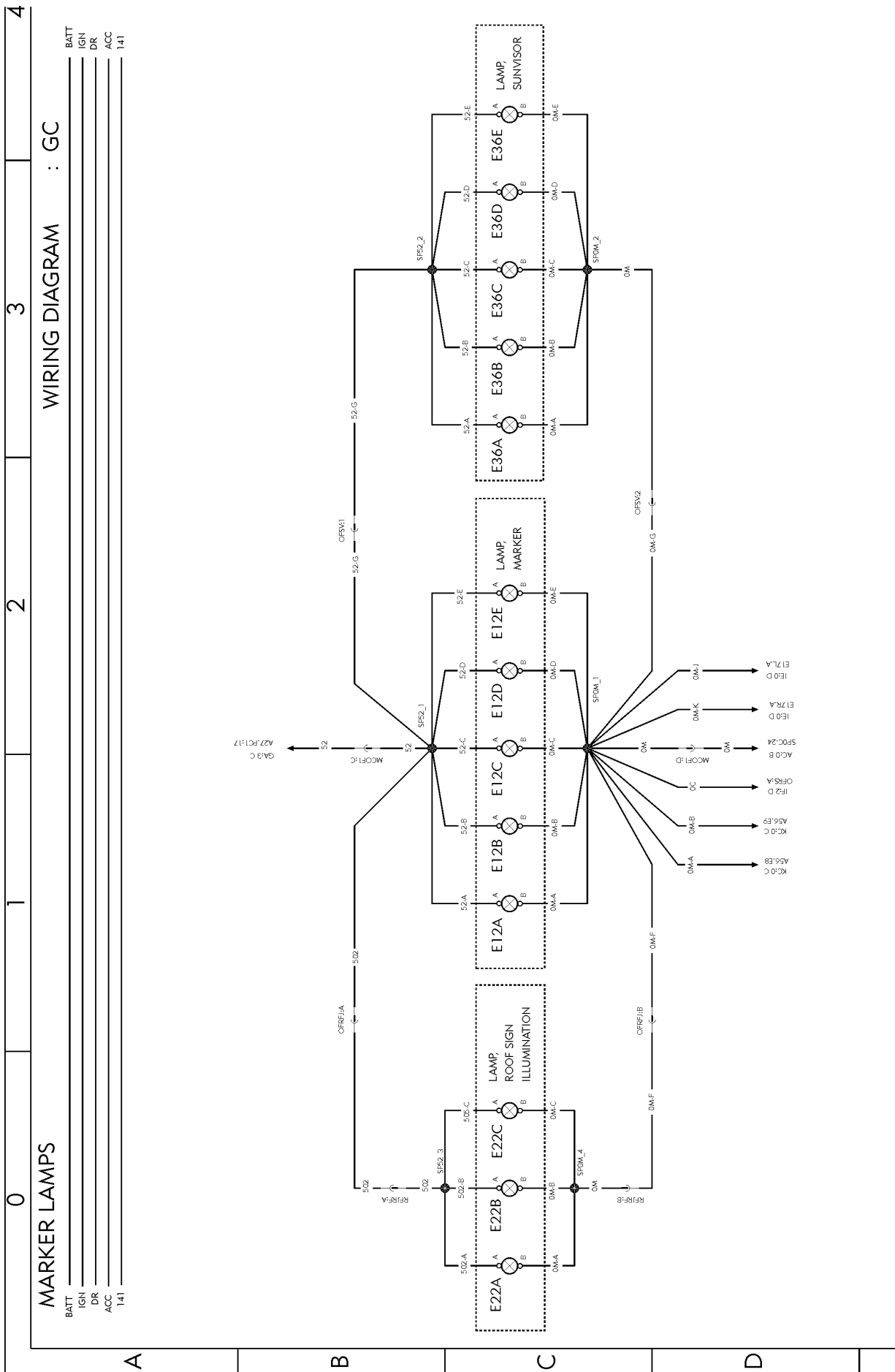


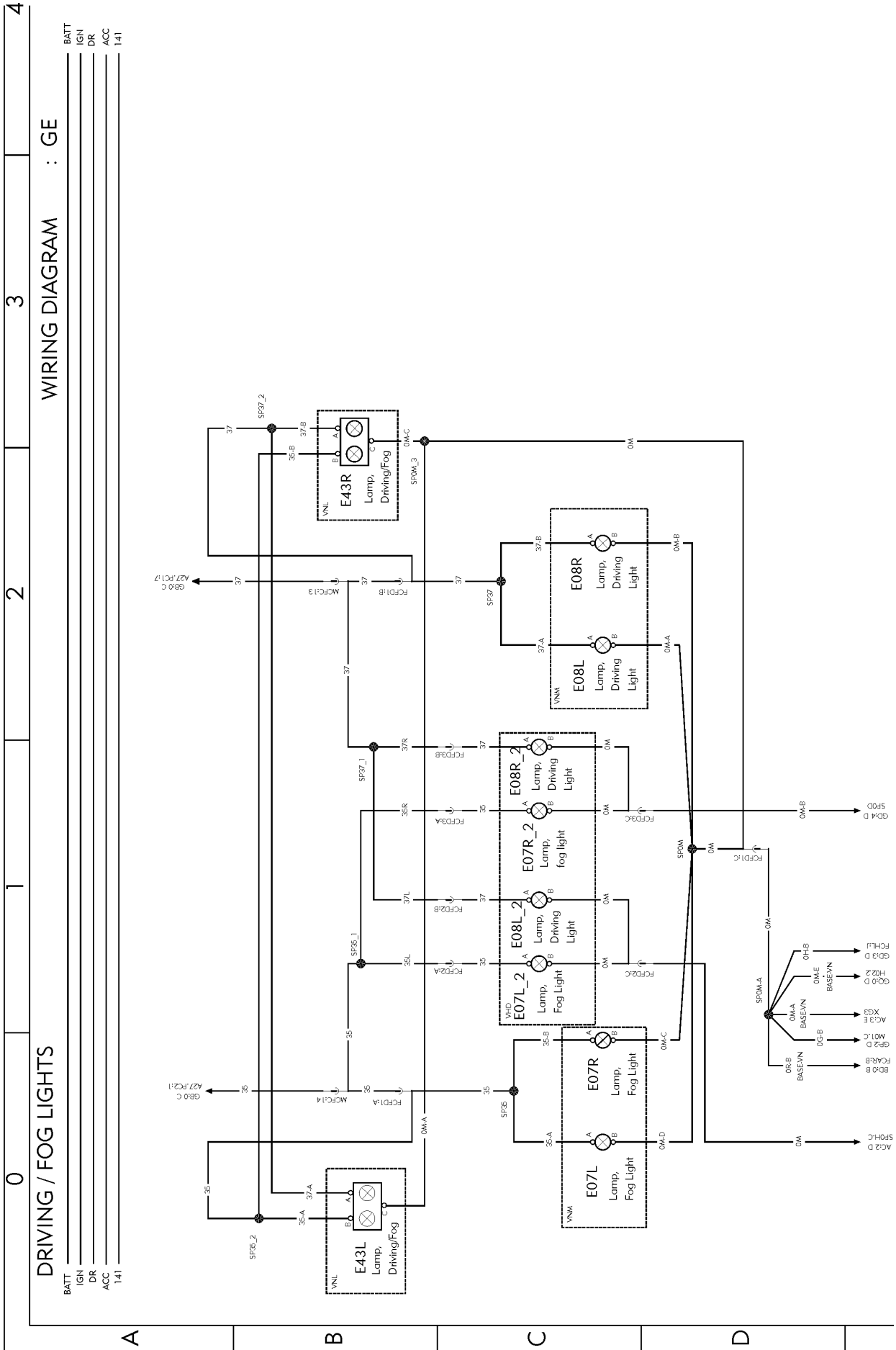


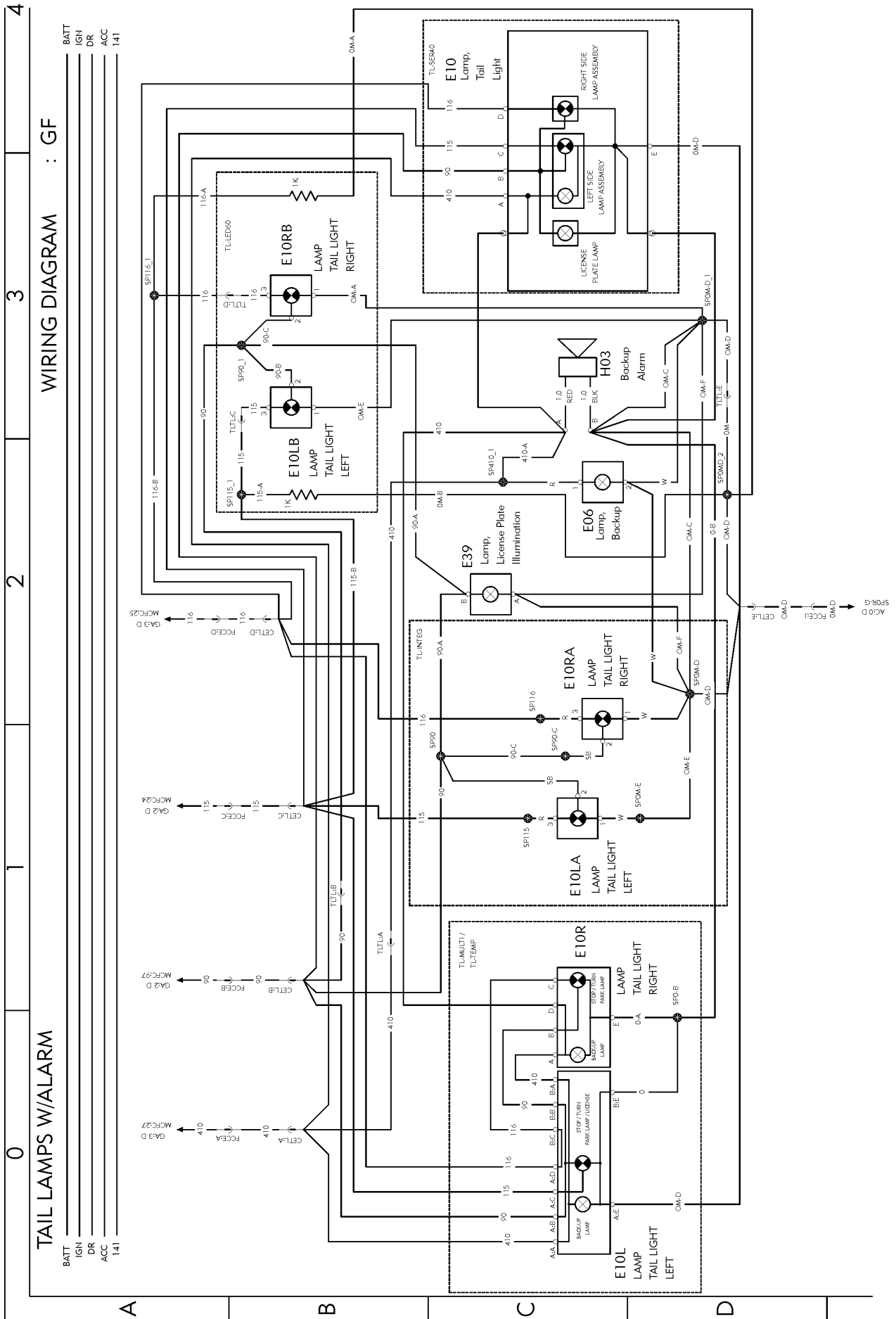


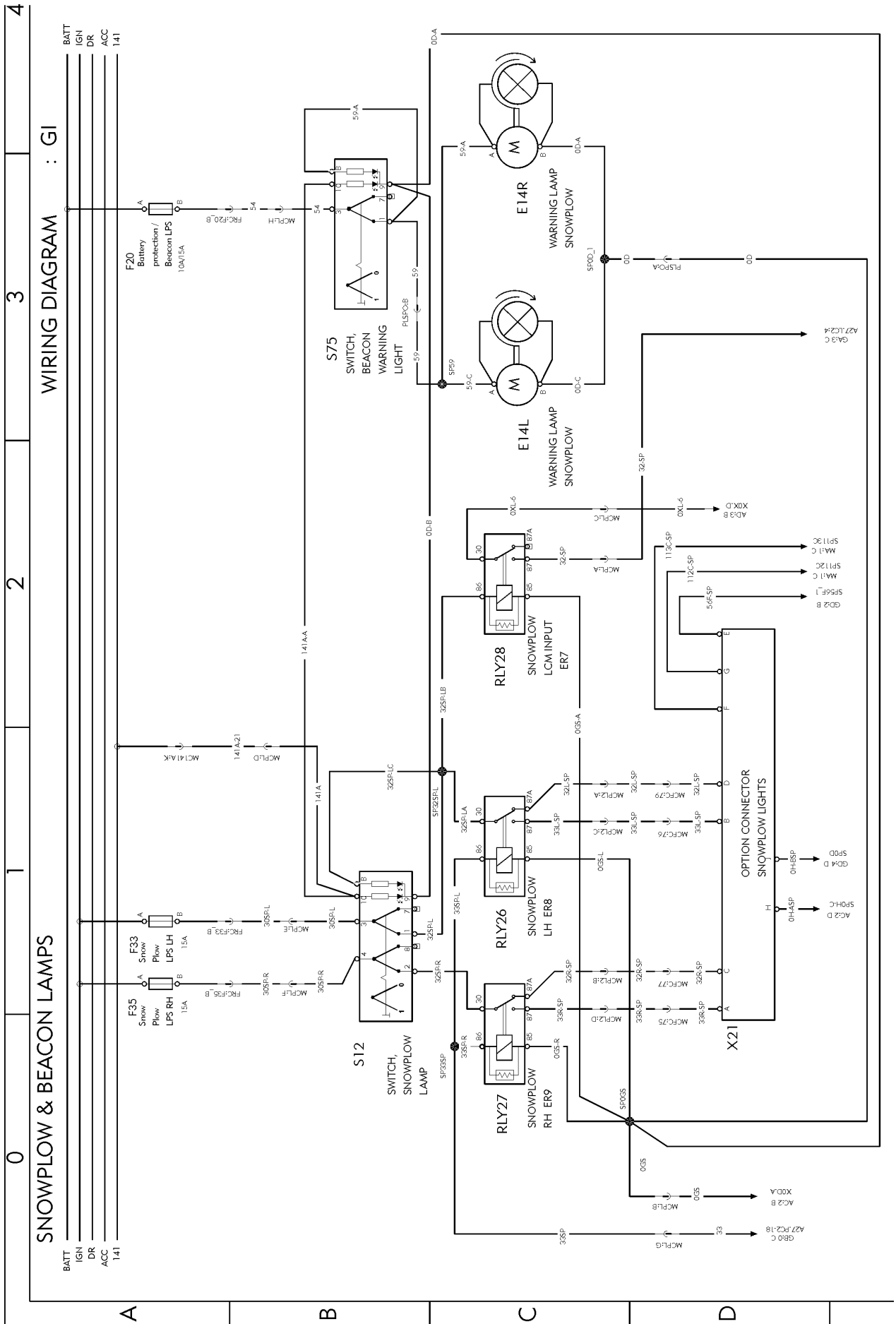


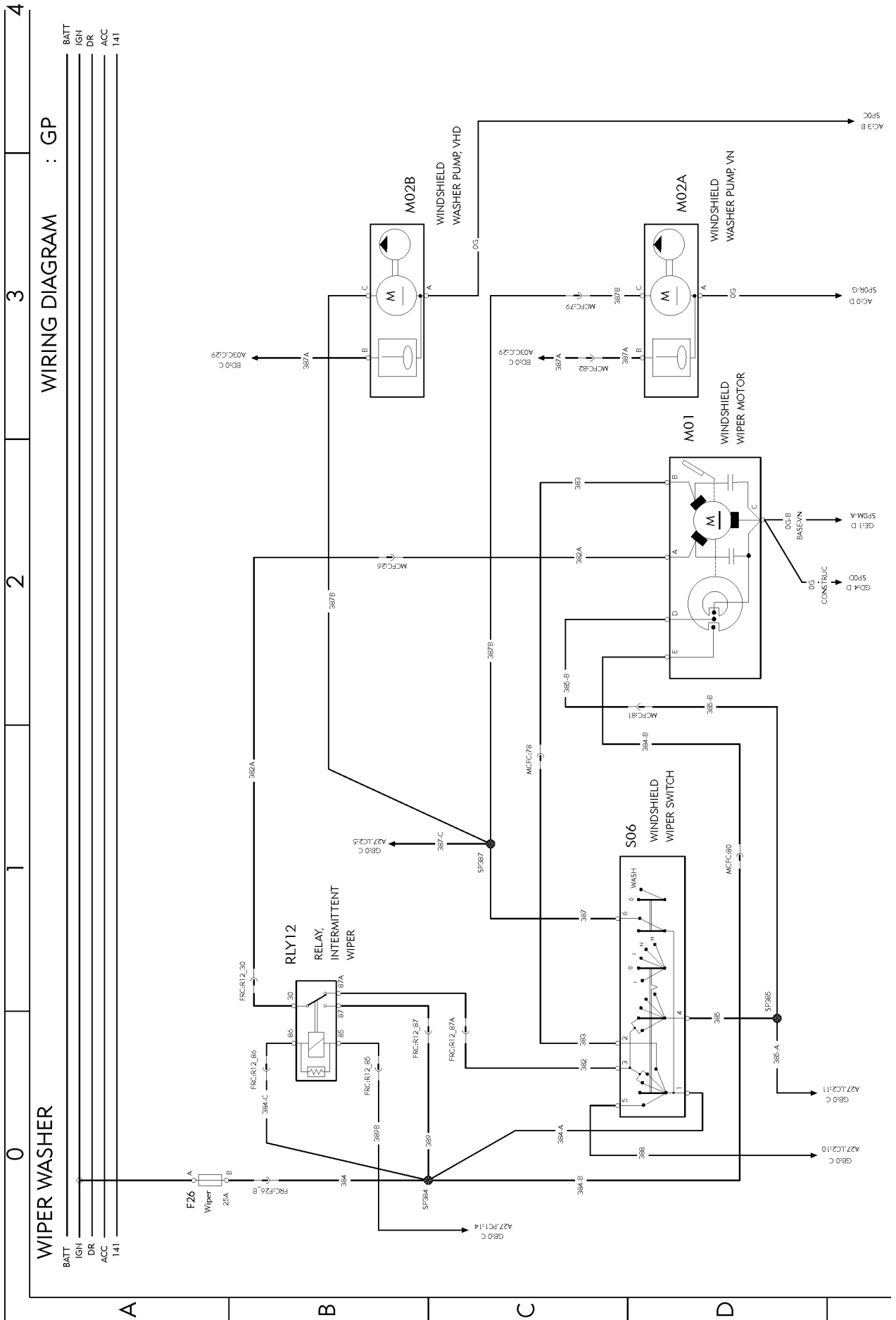


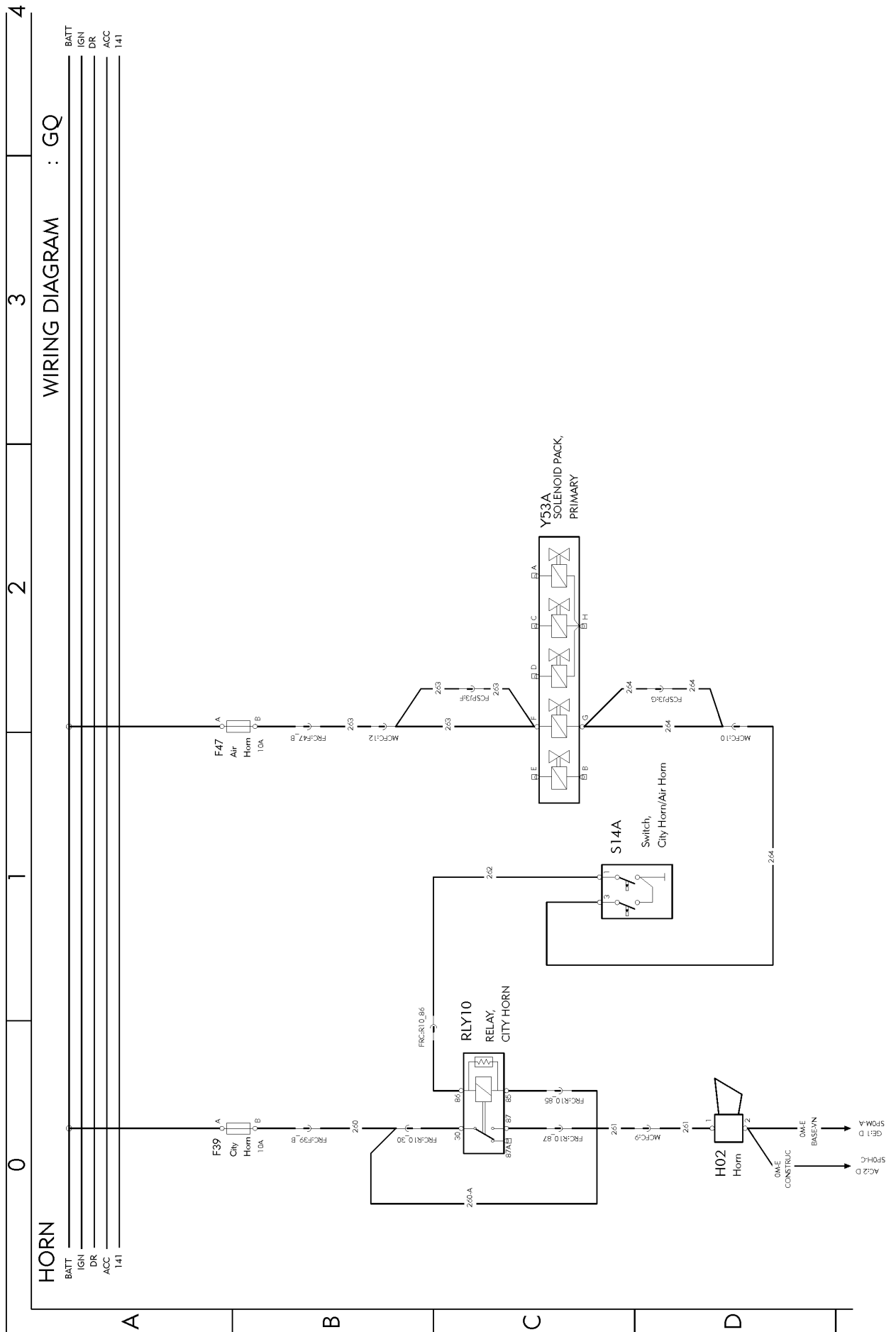


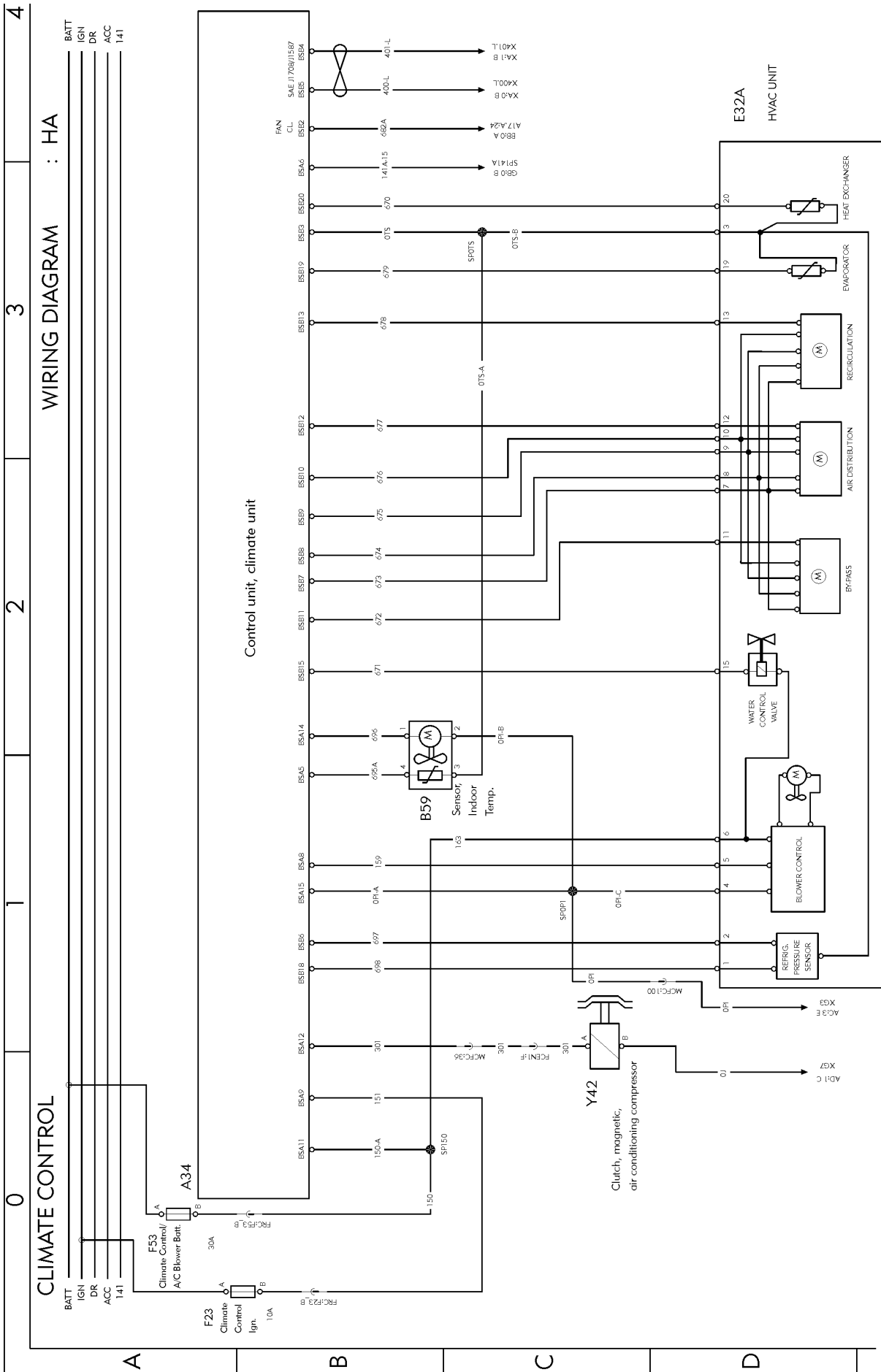


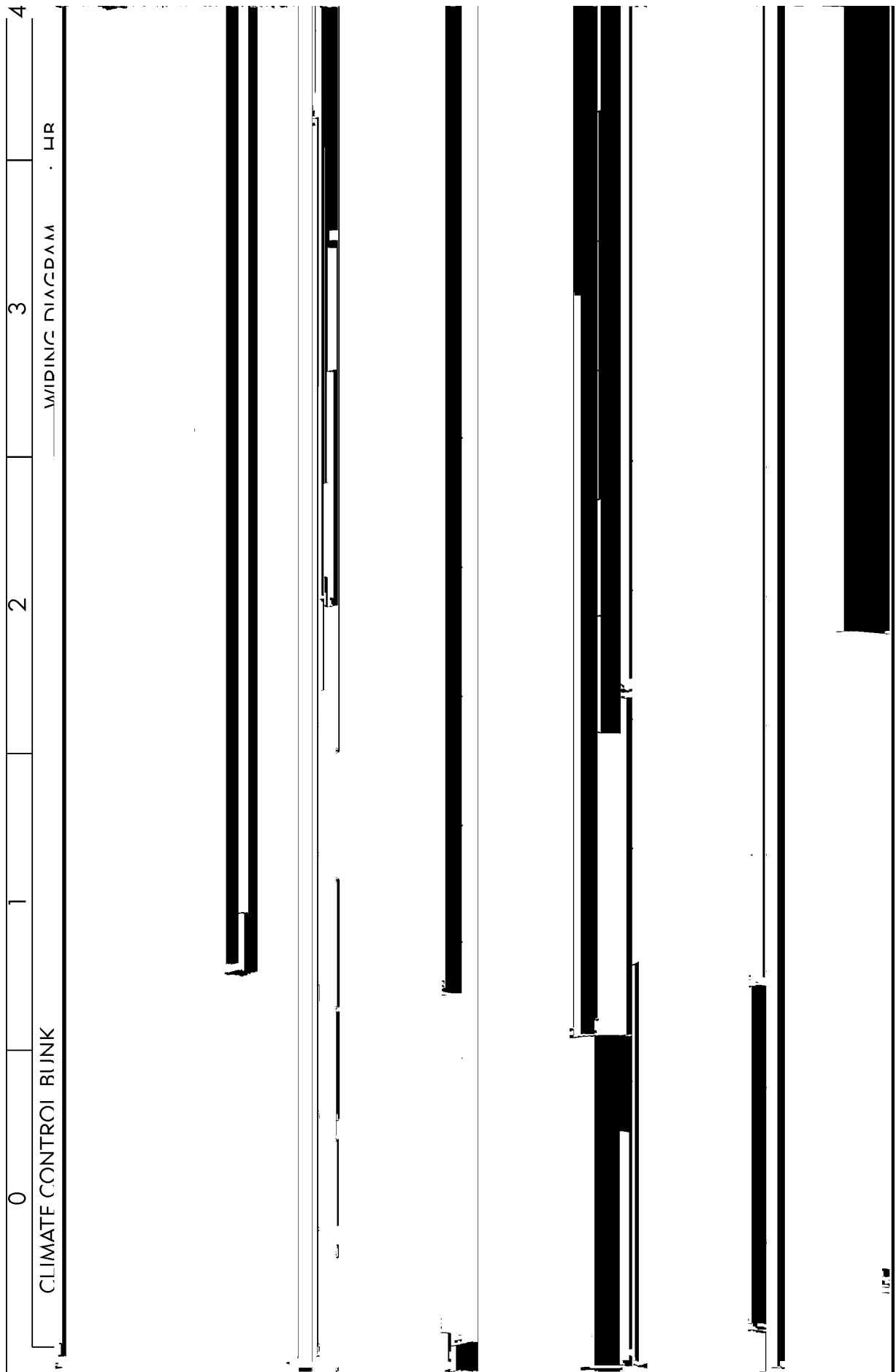


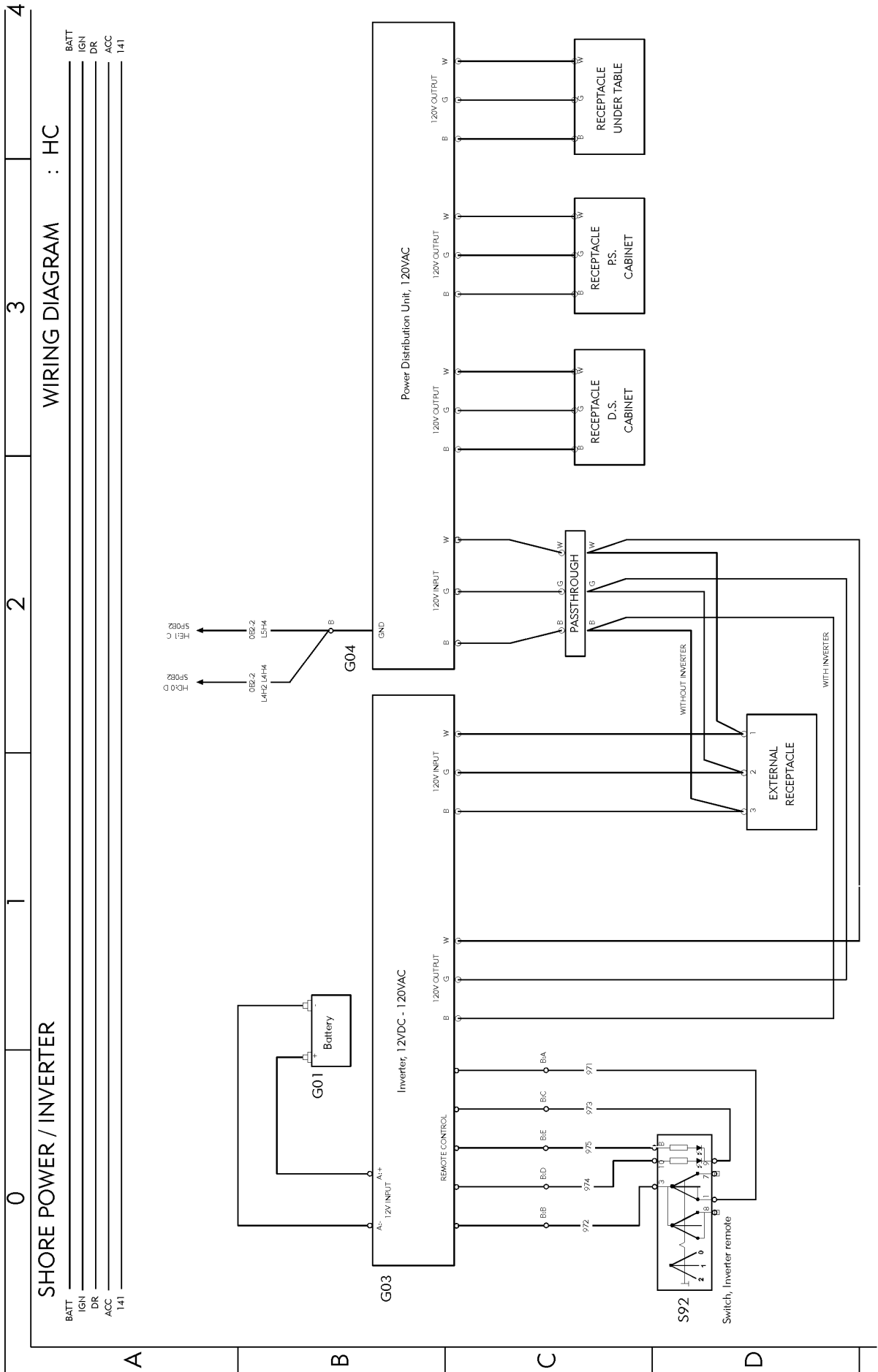


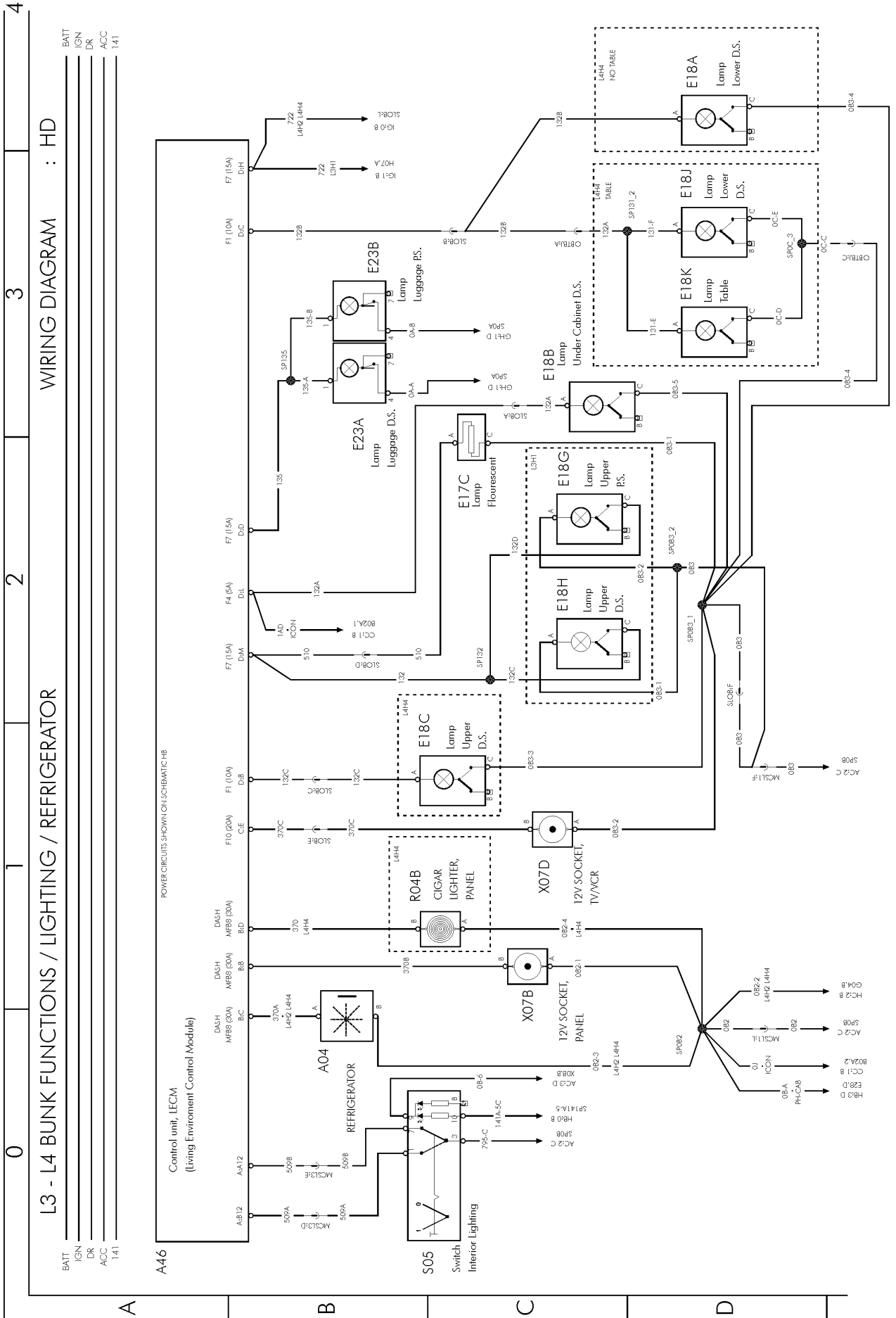


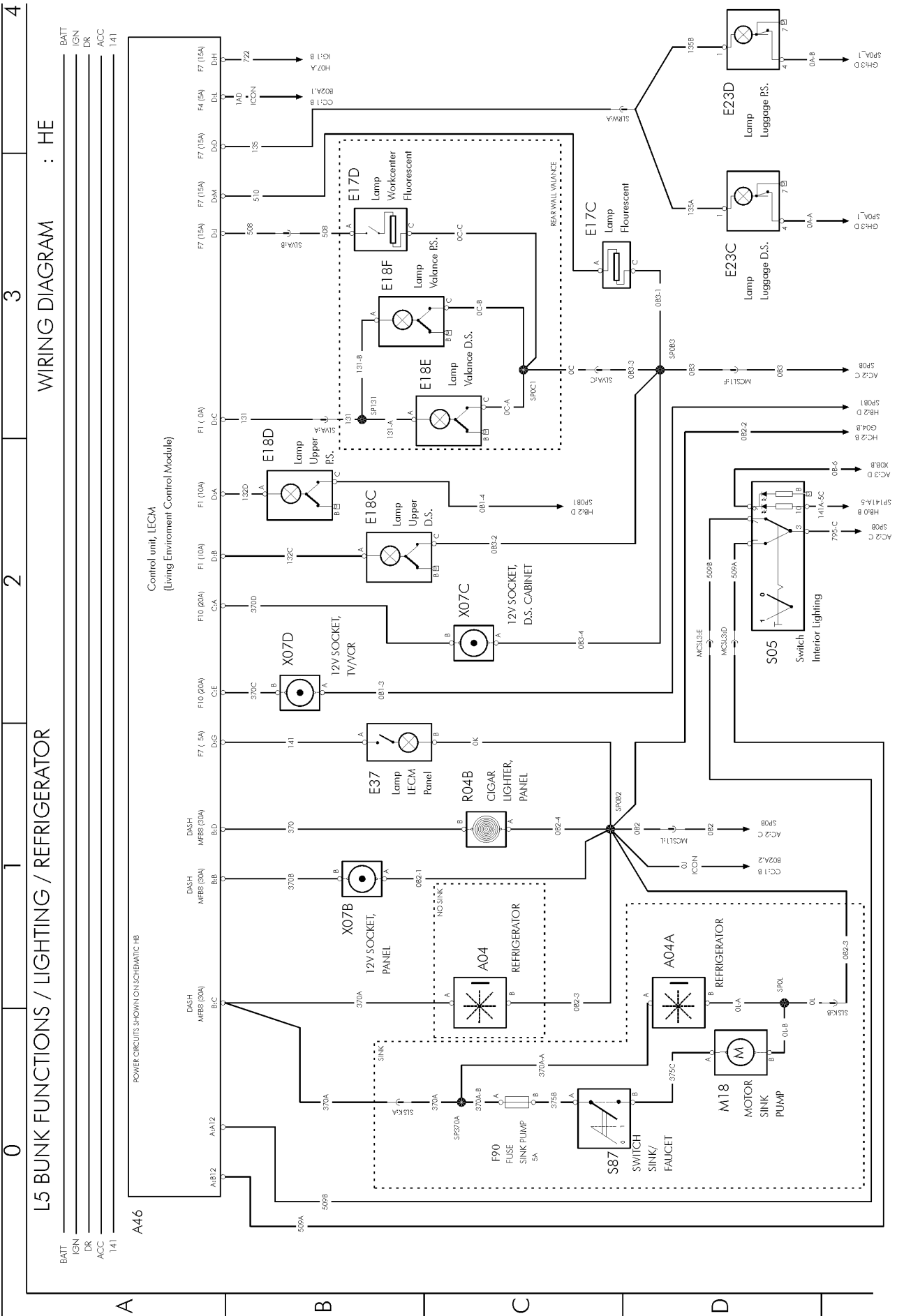


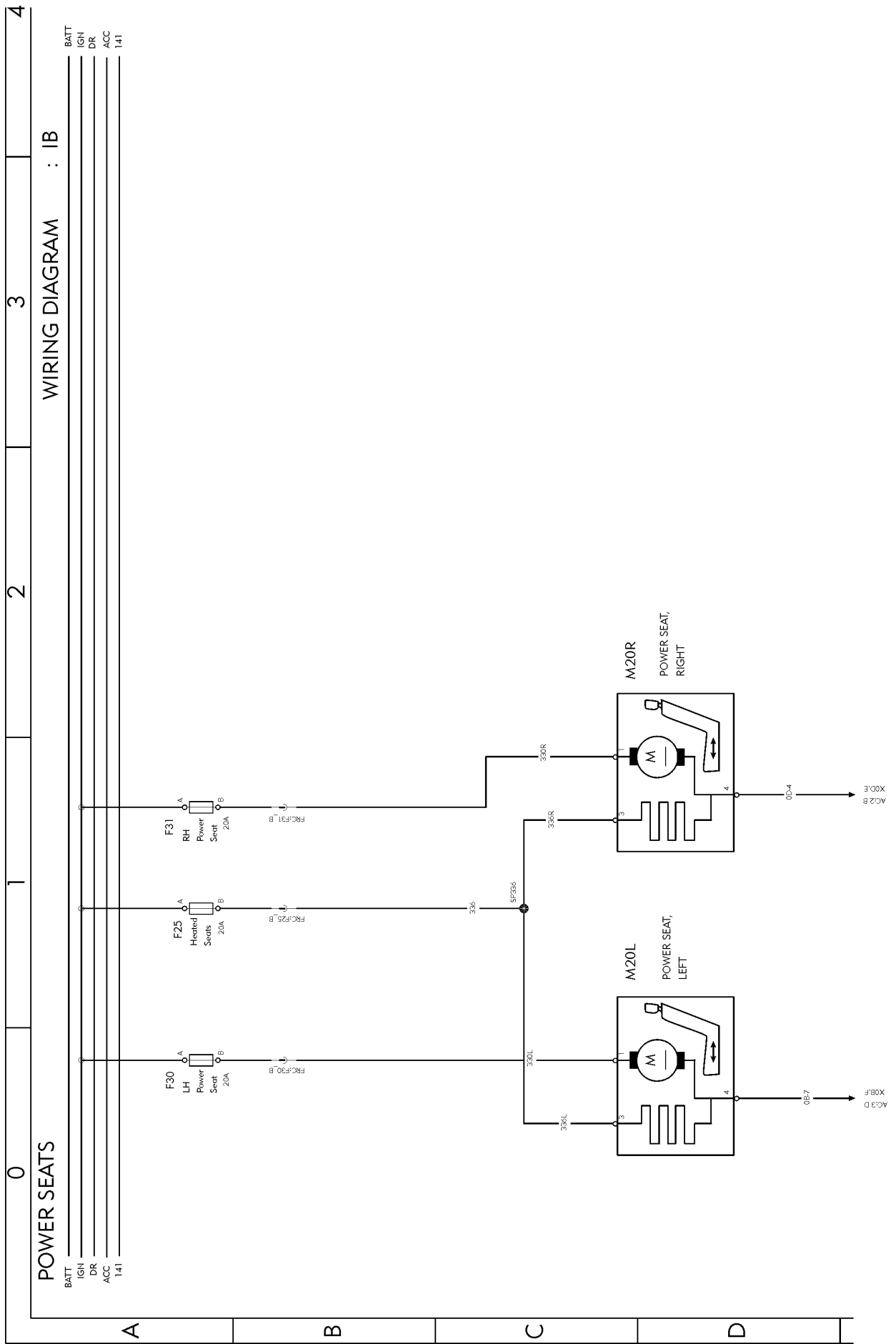


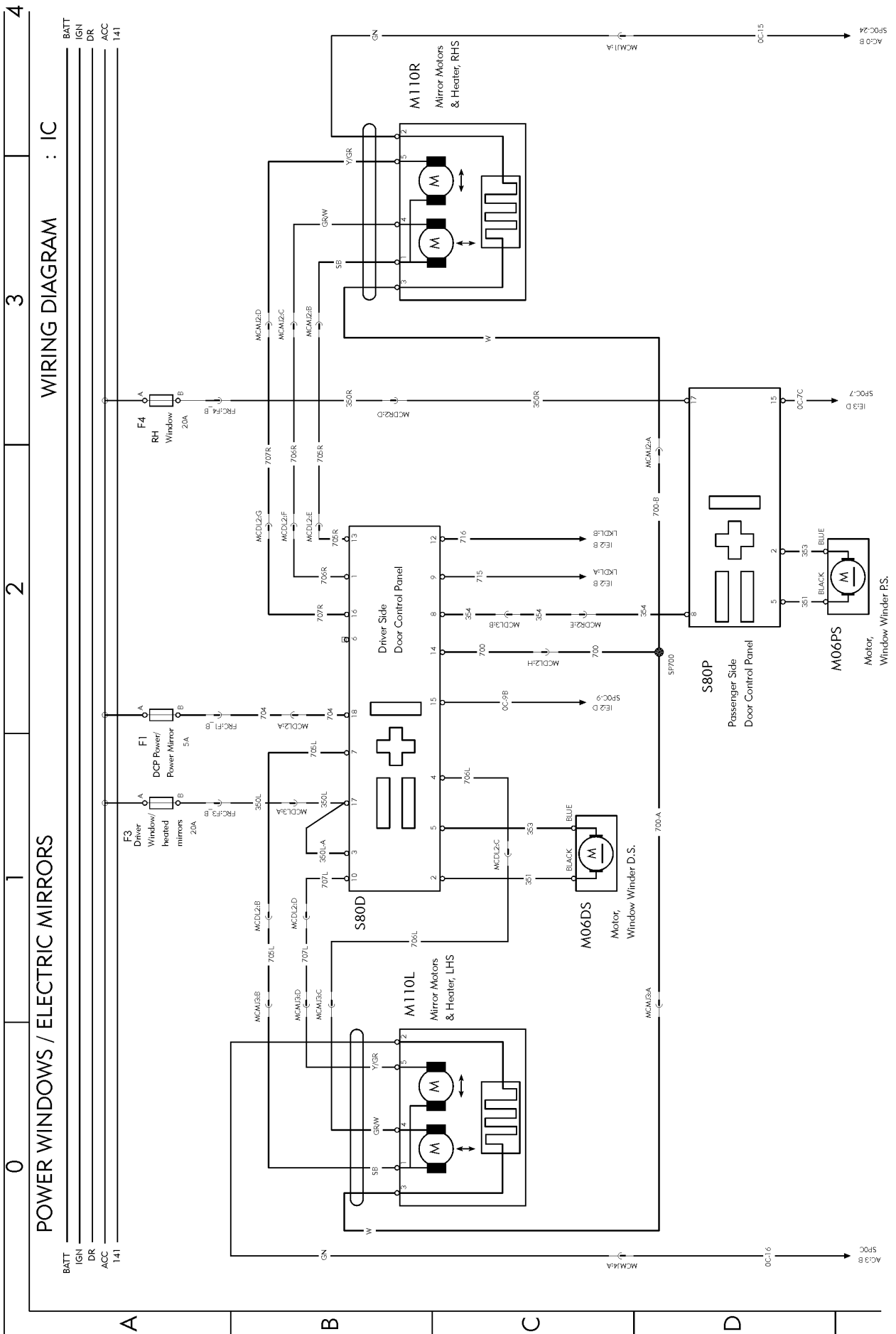


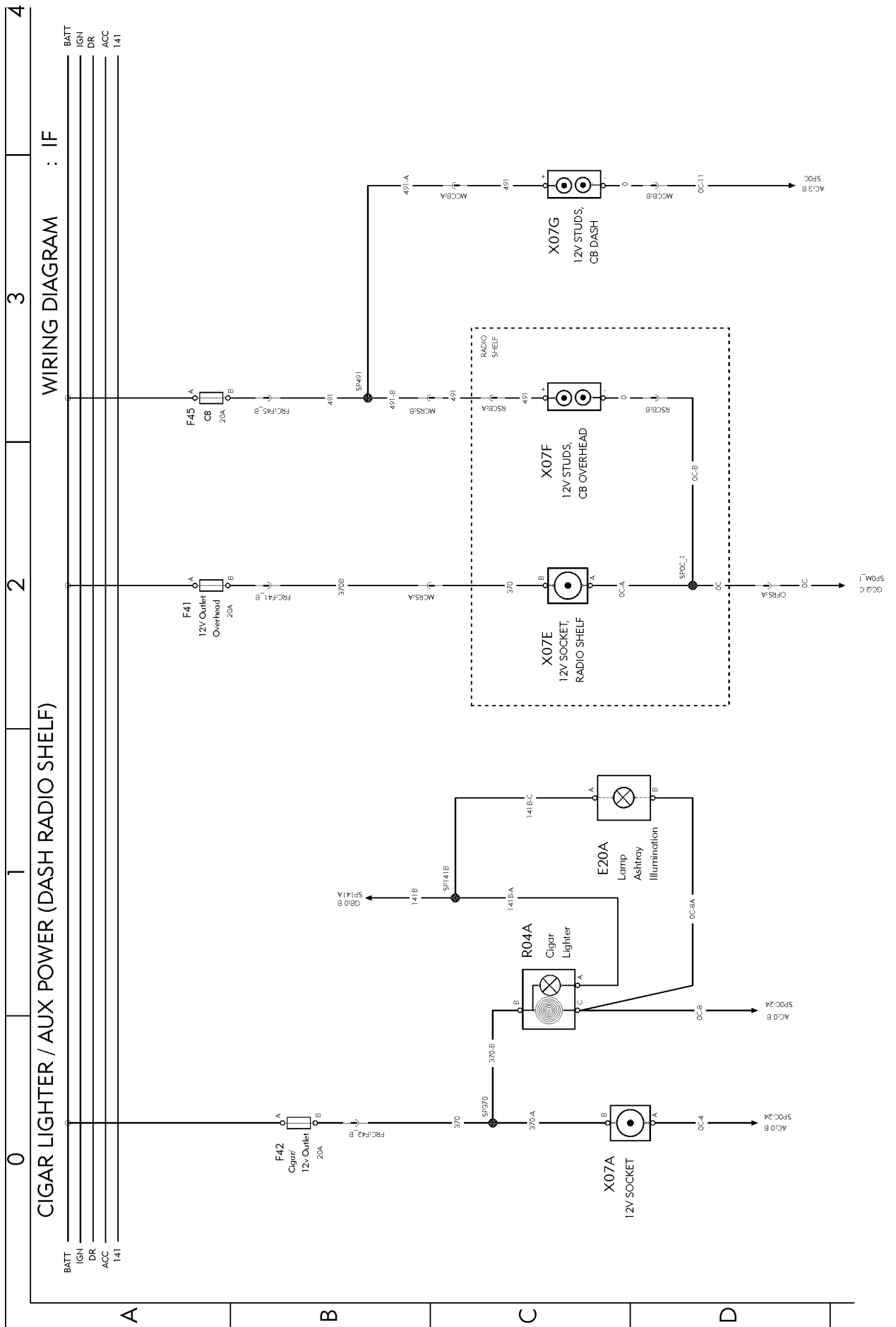


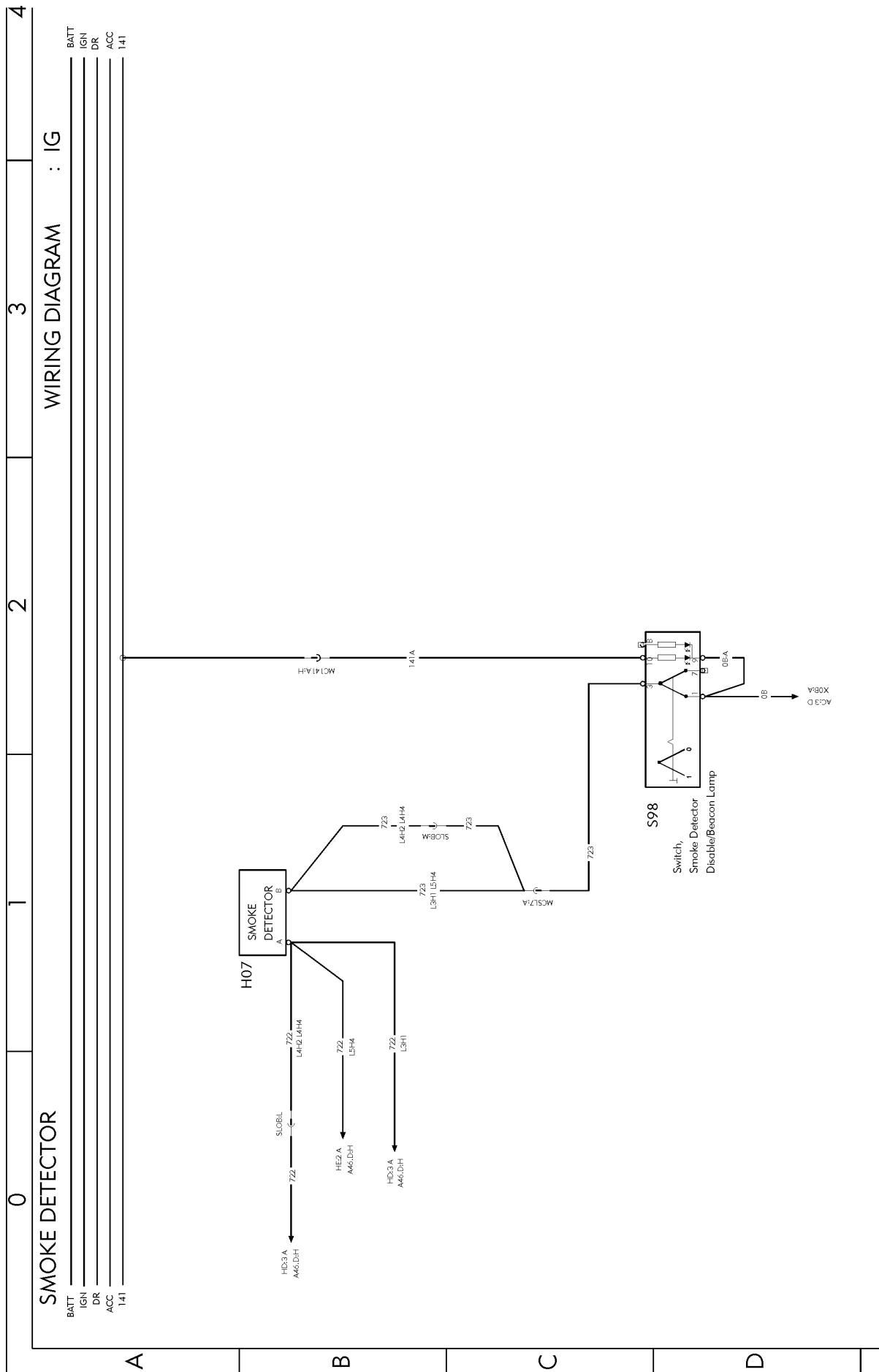


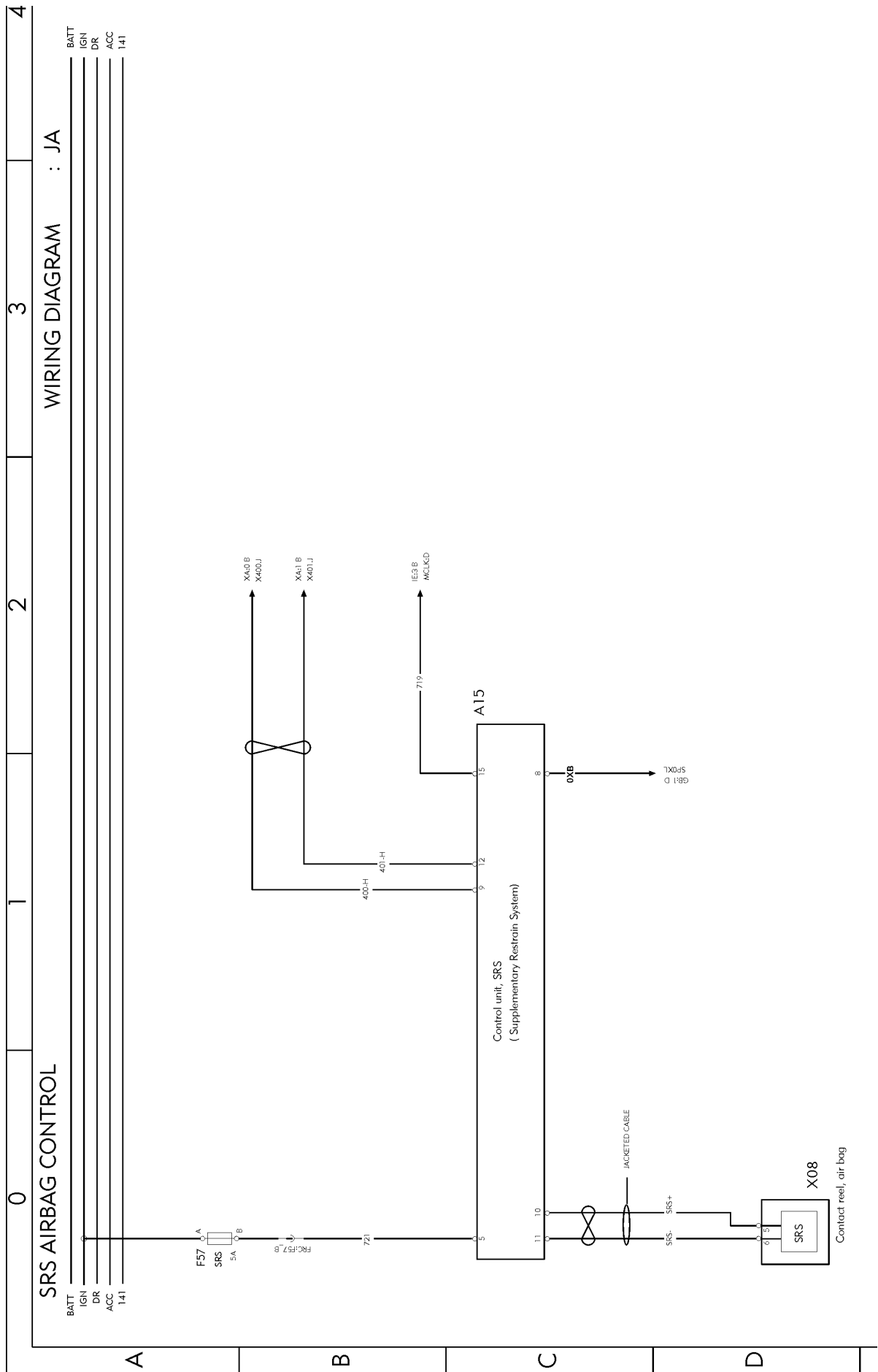


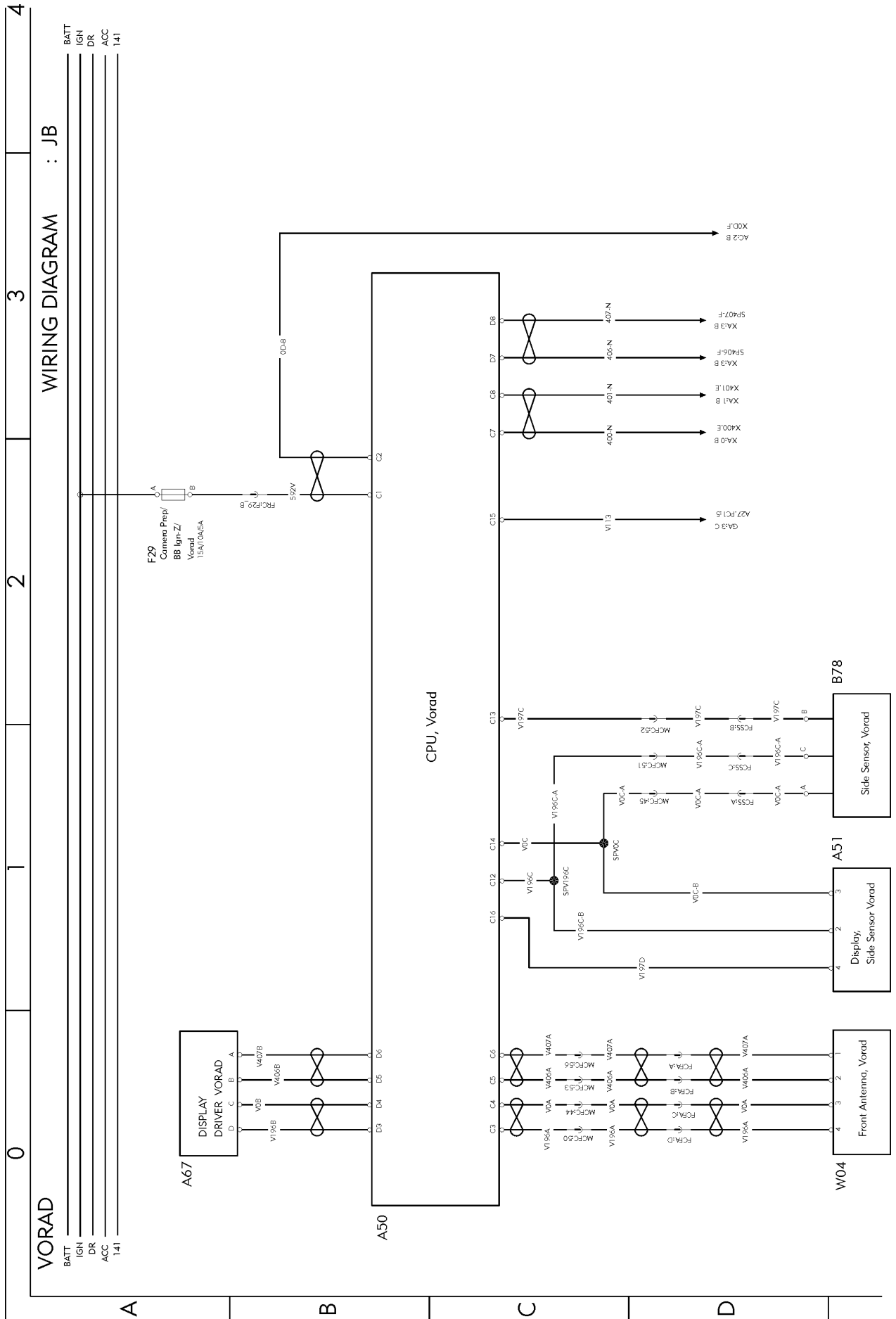


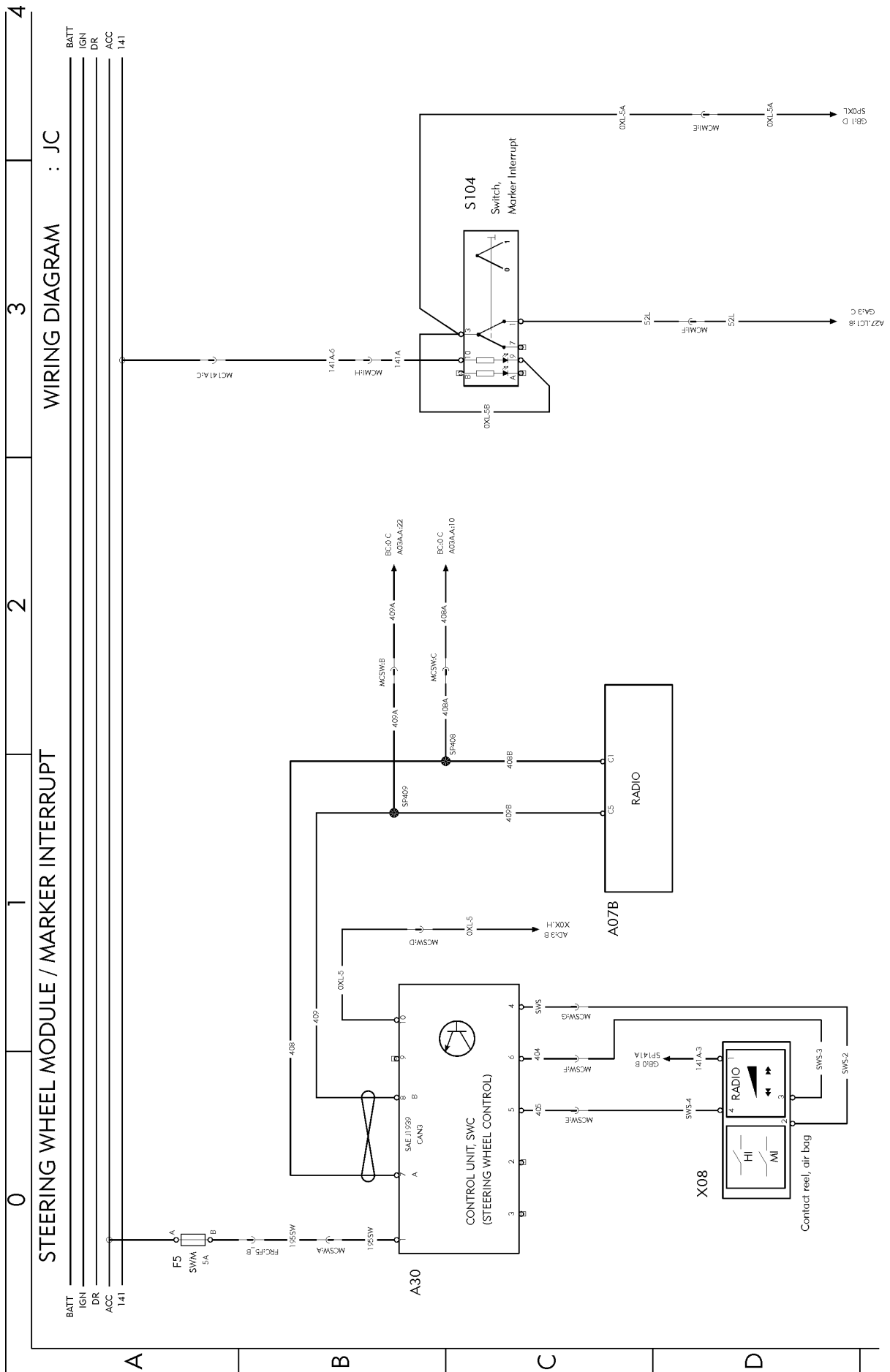


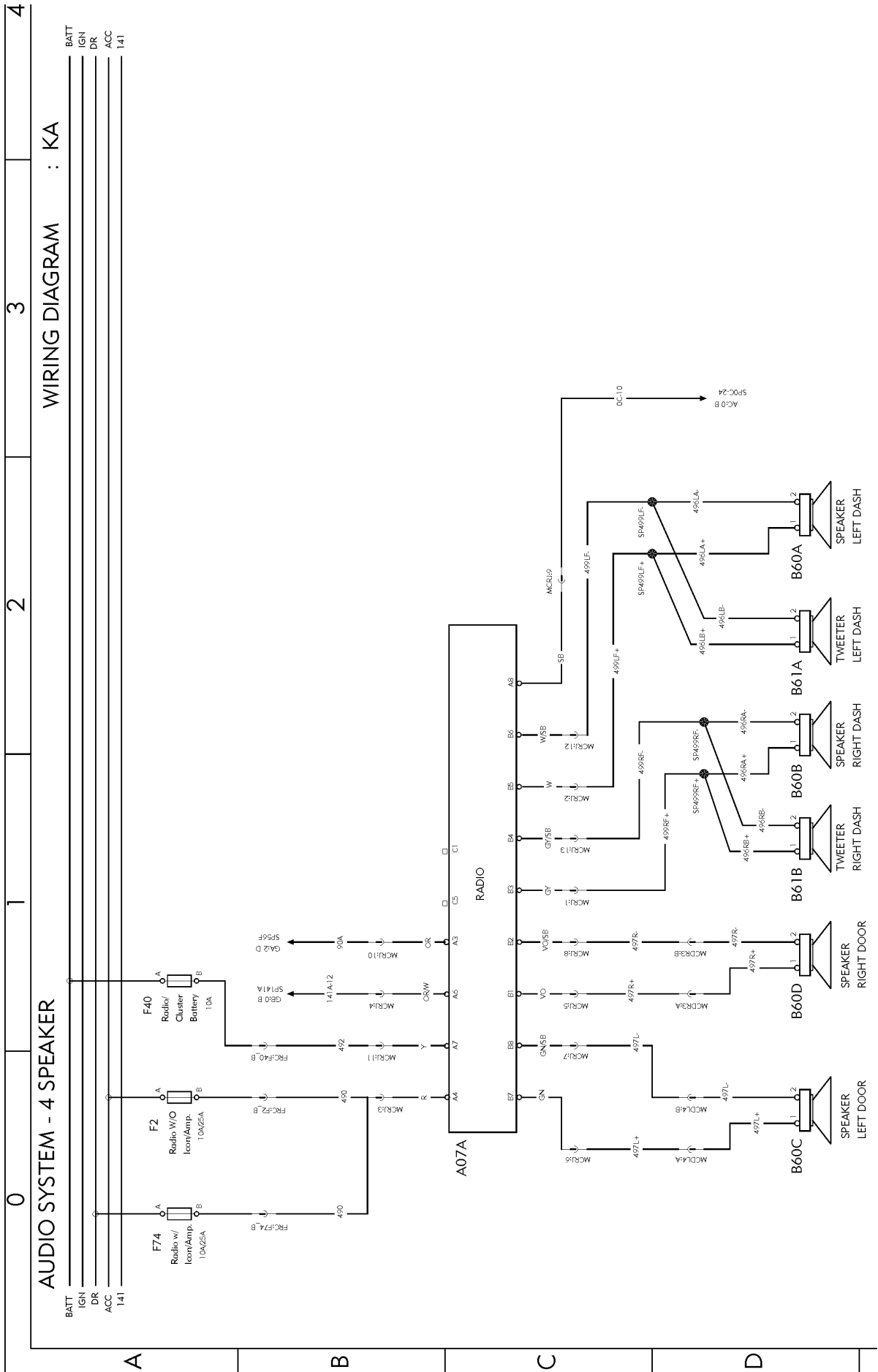


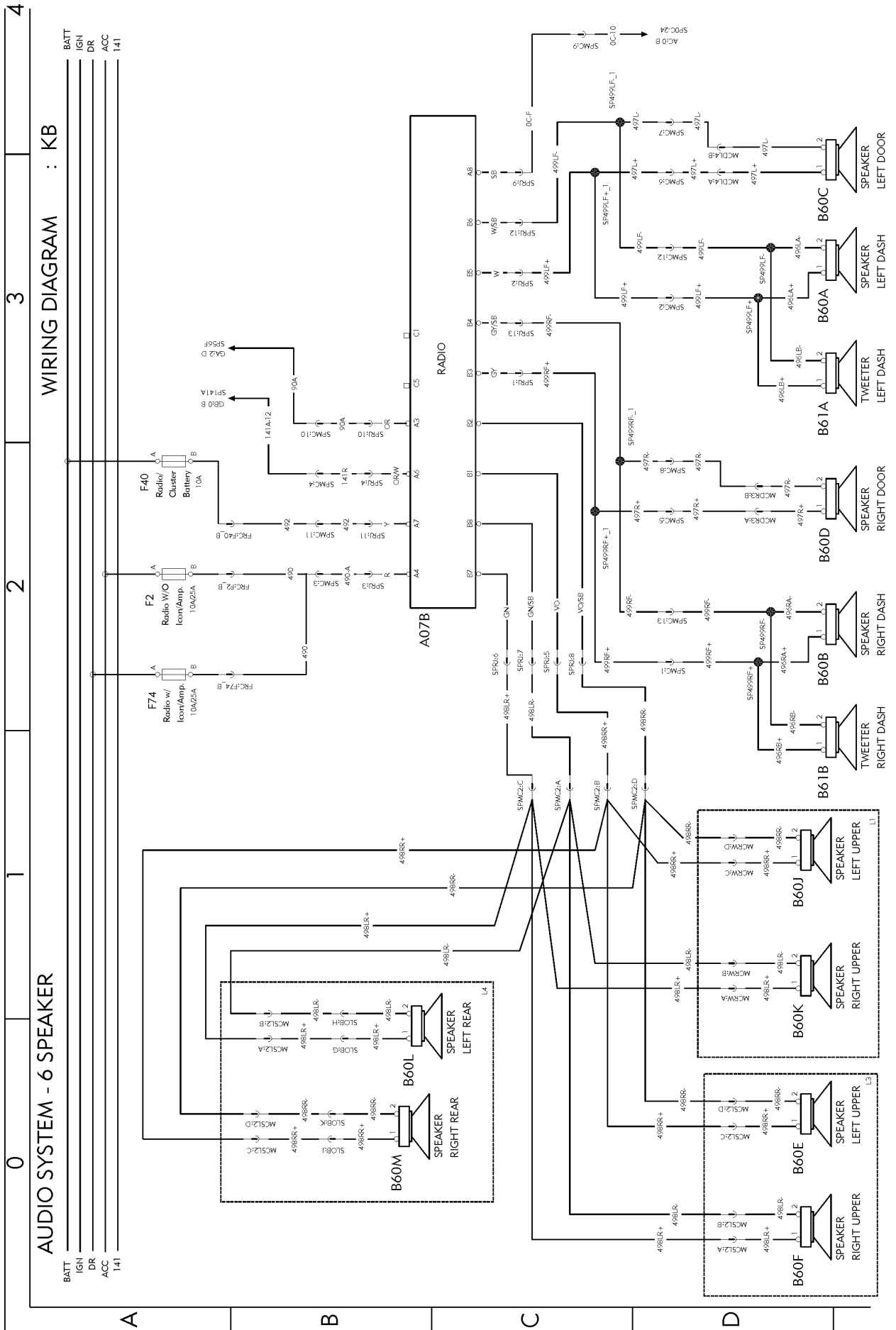


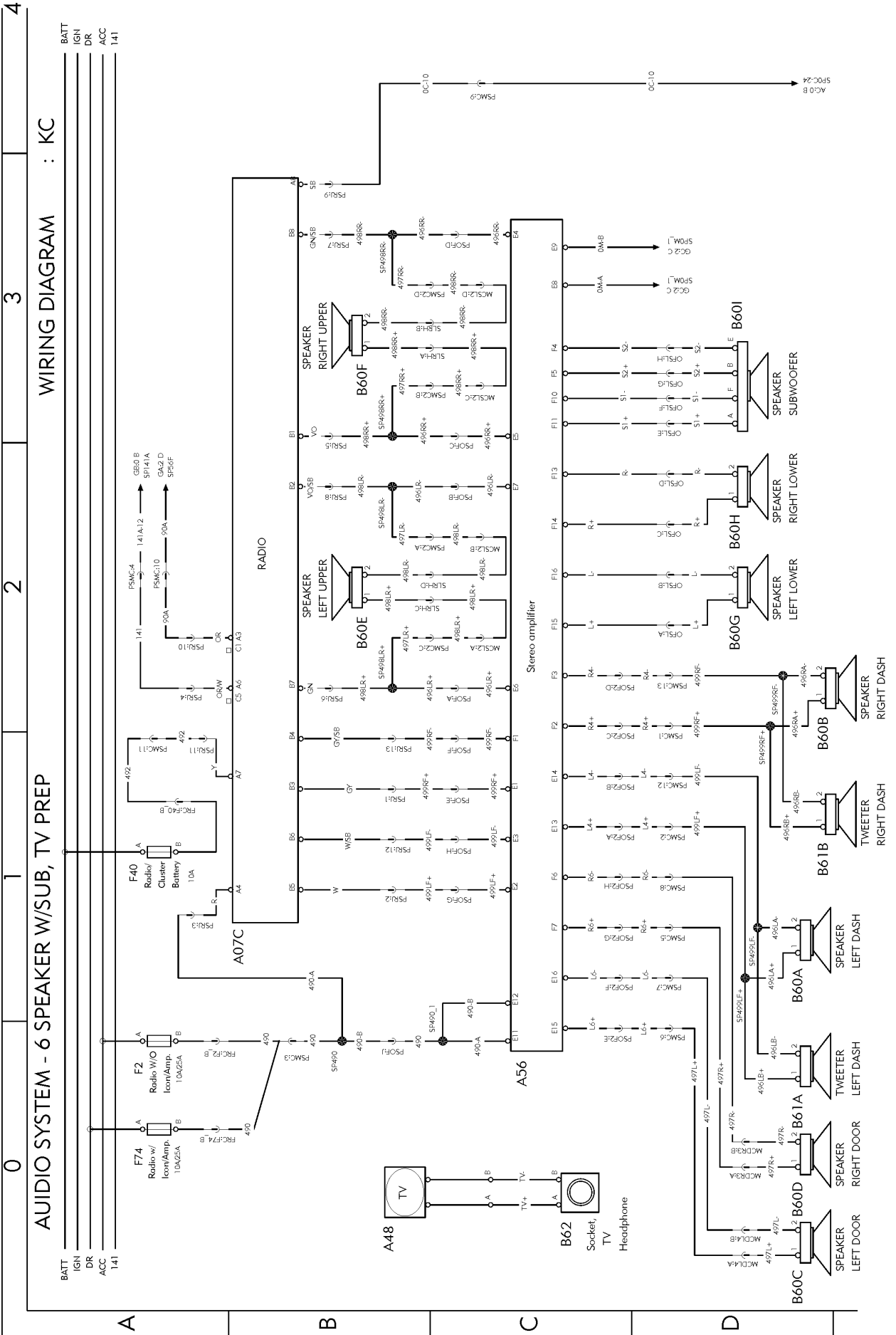


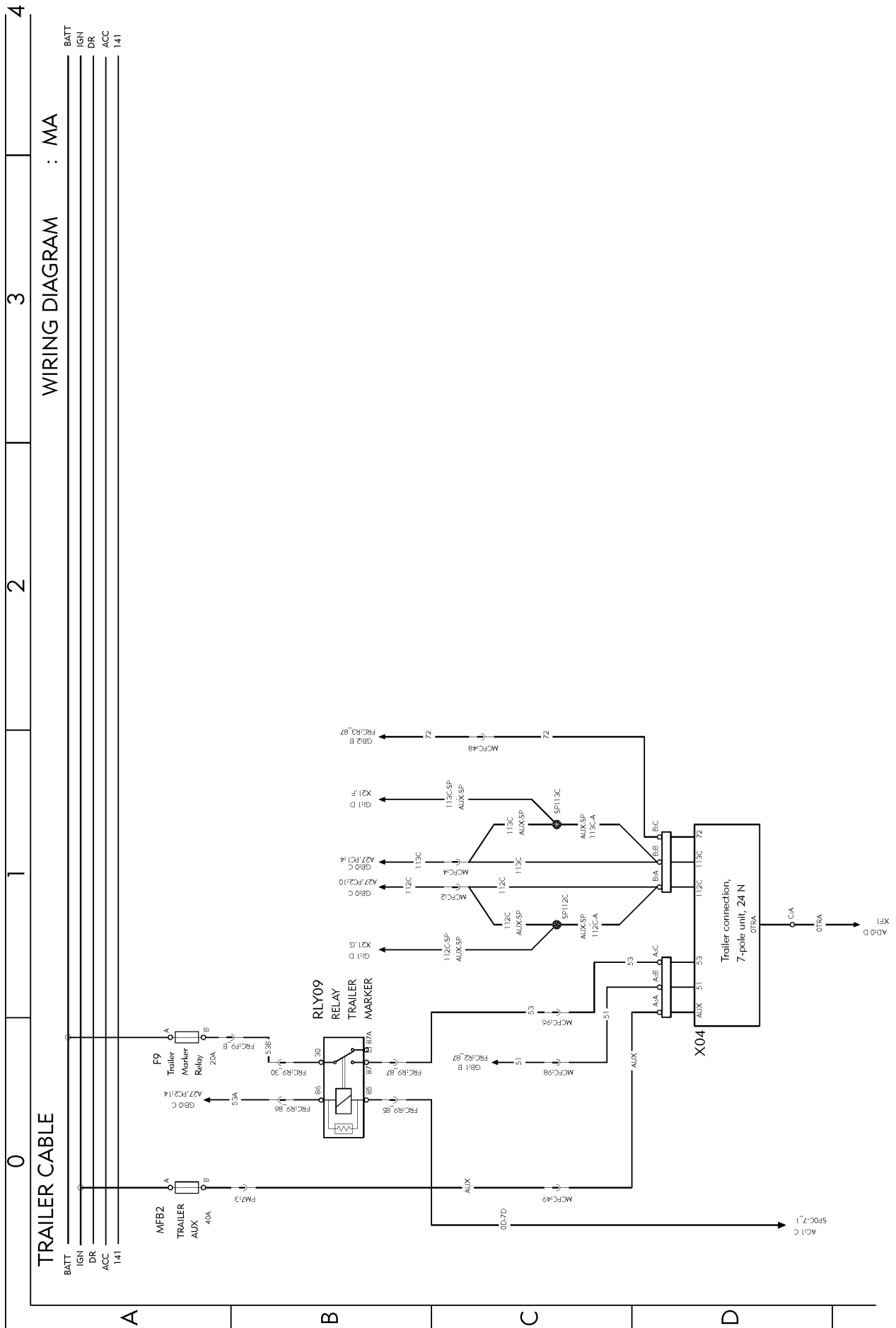


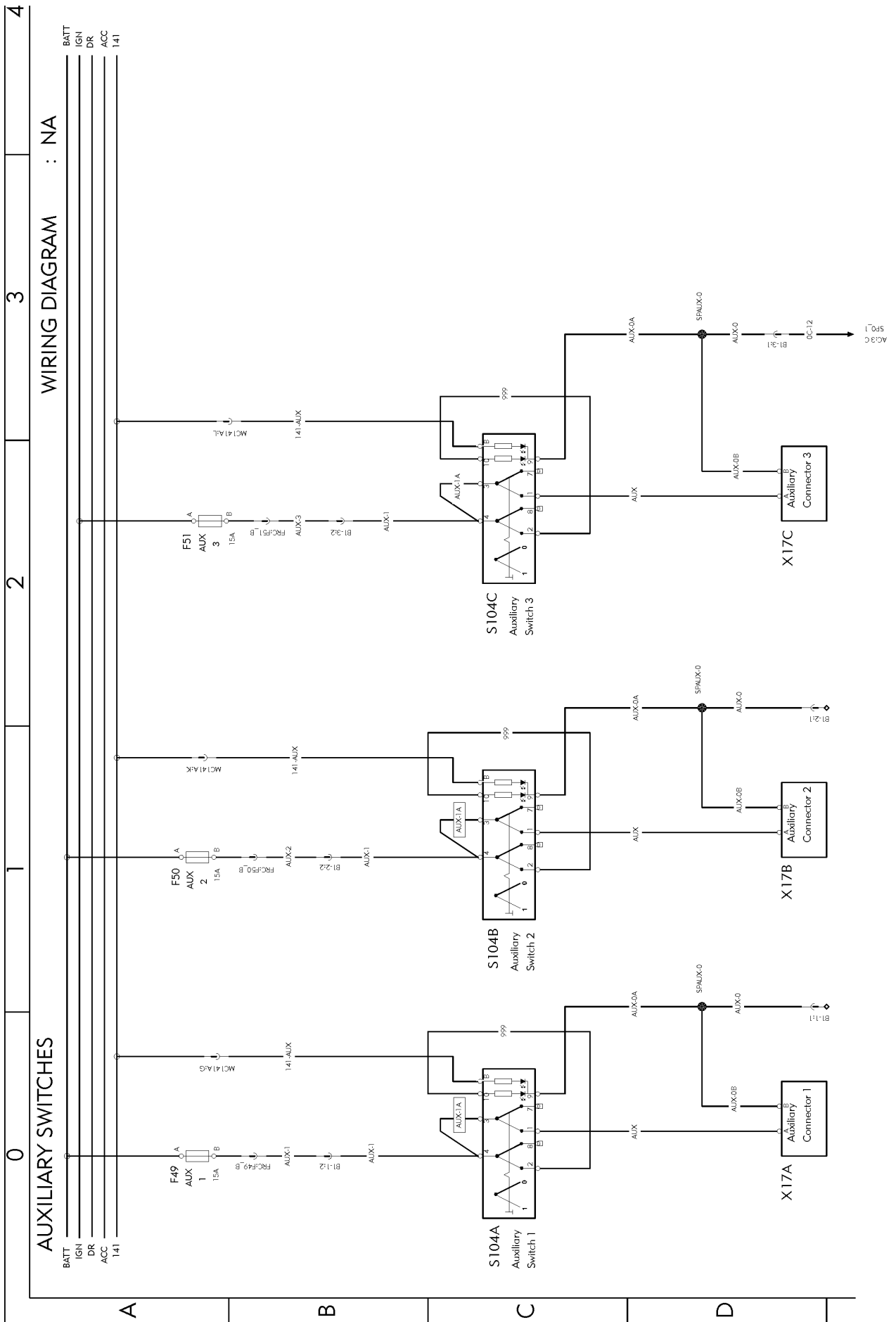


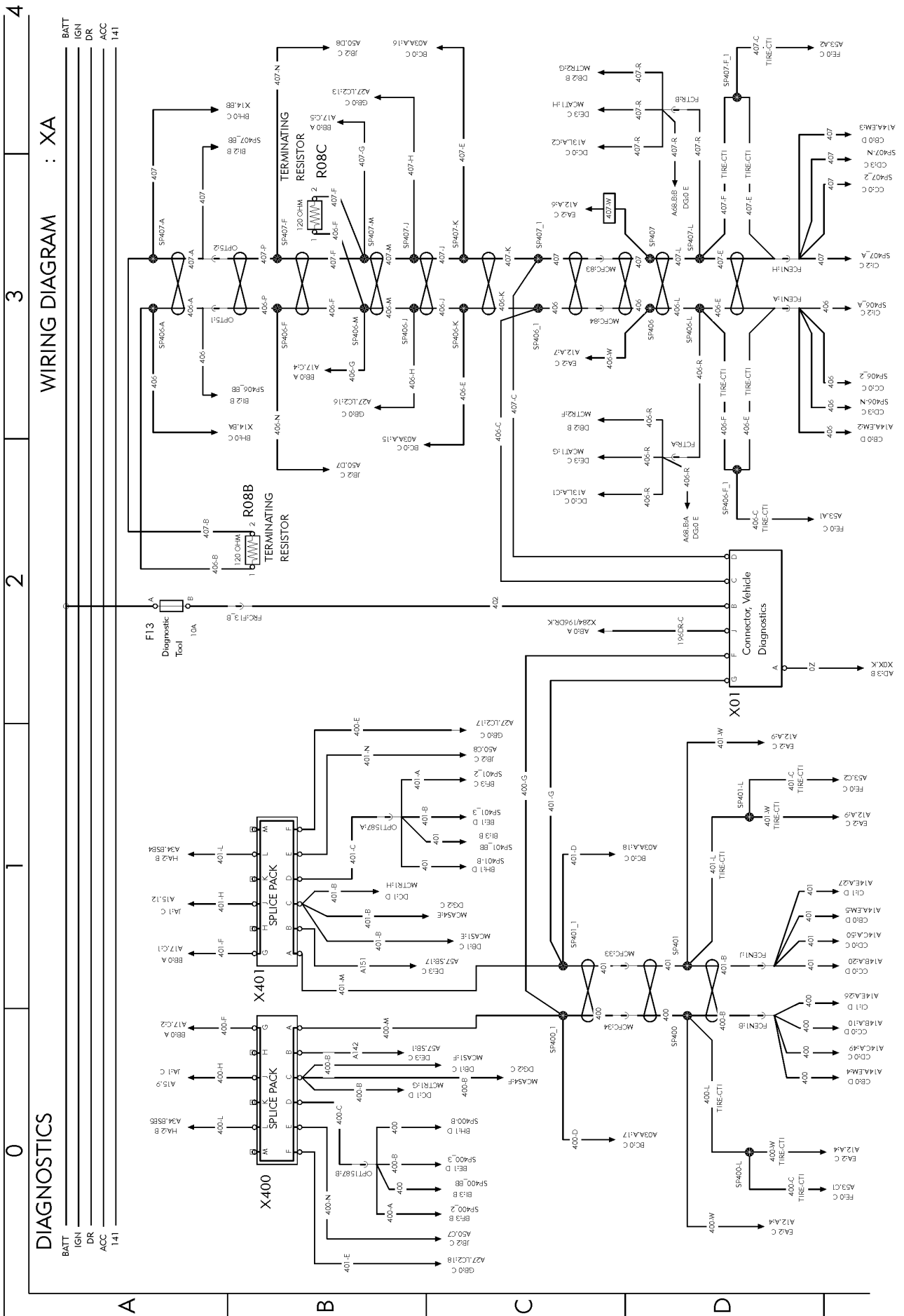












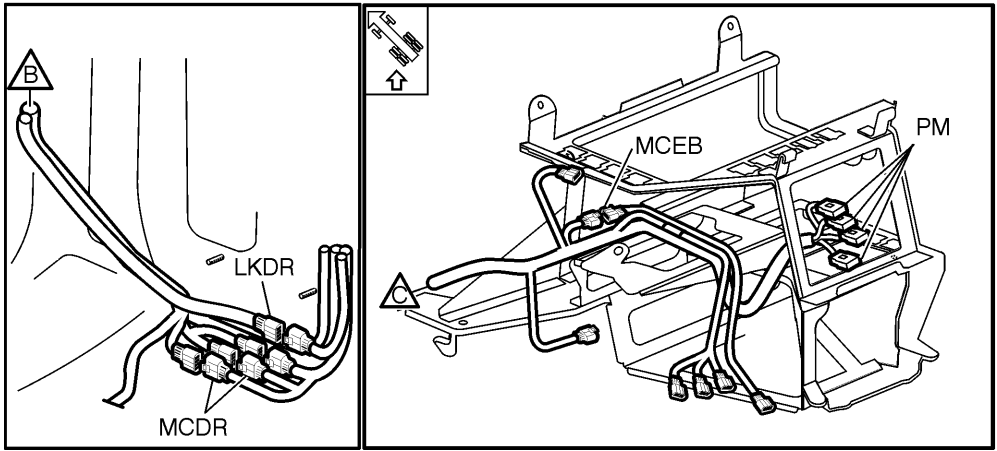
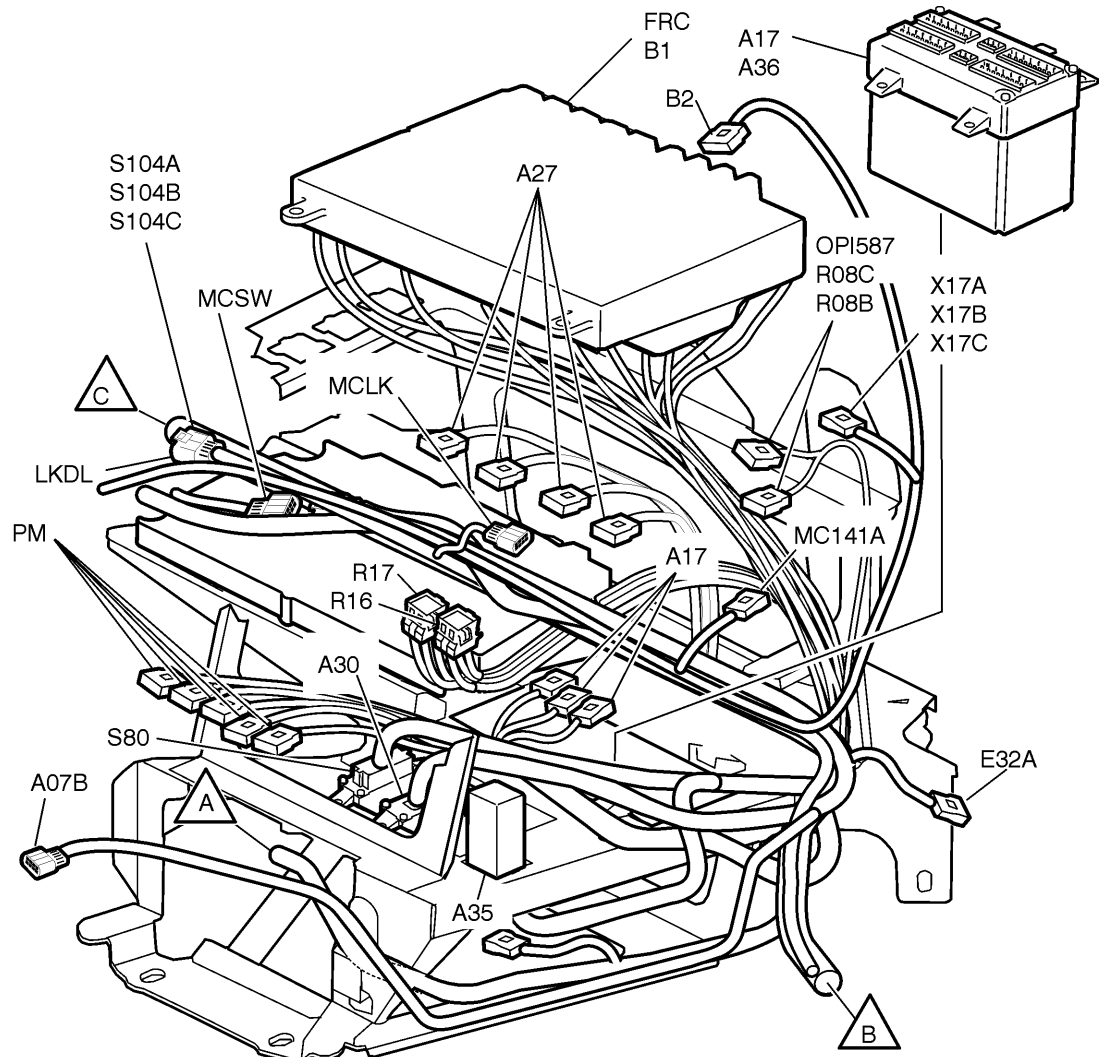
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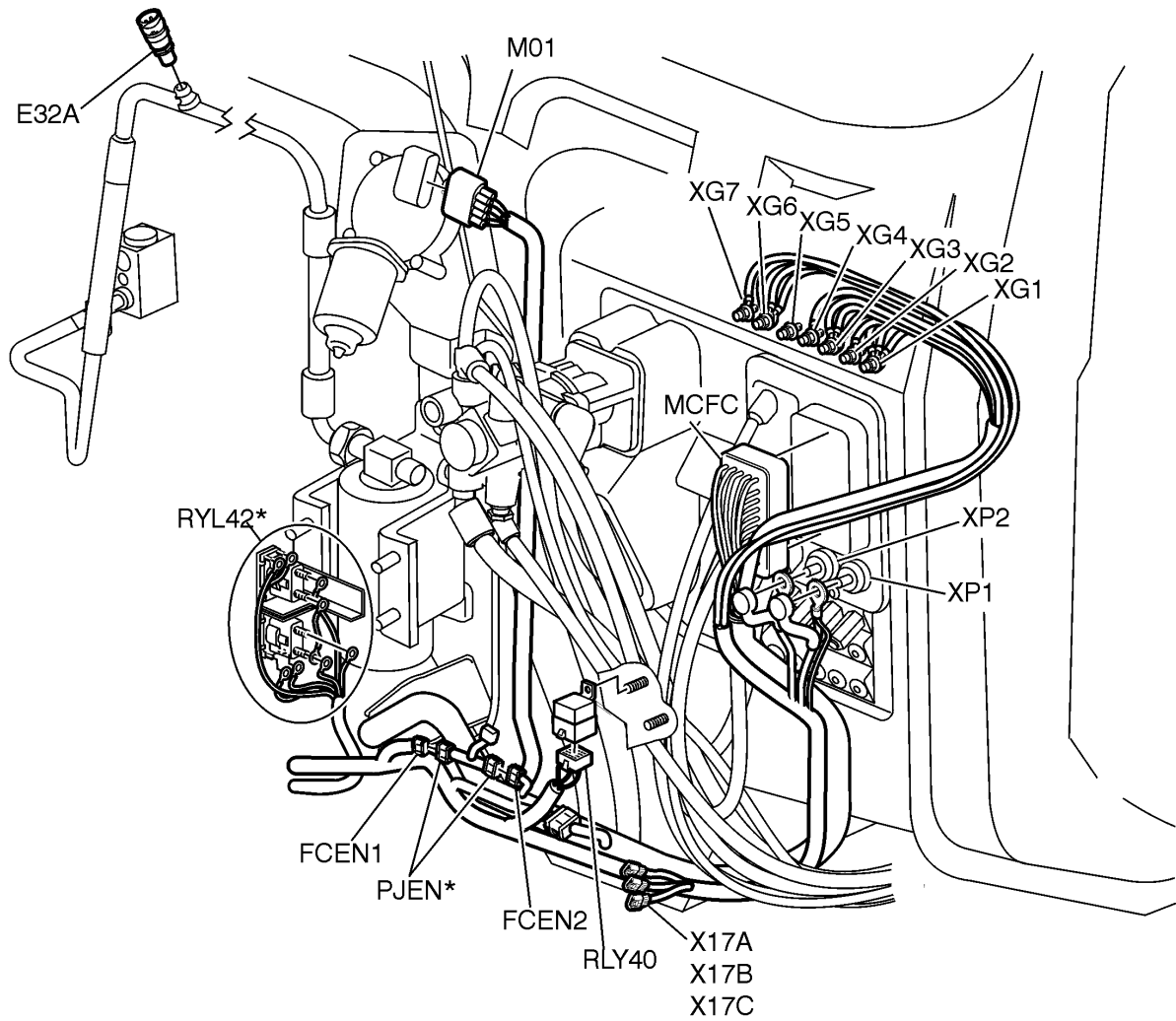
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	Marker Lamps, Sunvisor (VN670, VN780)	page 111
	Trailer Cable Harness	

Fuse and Relay Center, Main Cab Harness (including Bodybuilder Module)



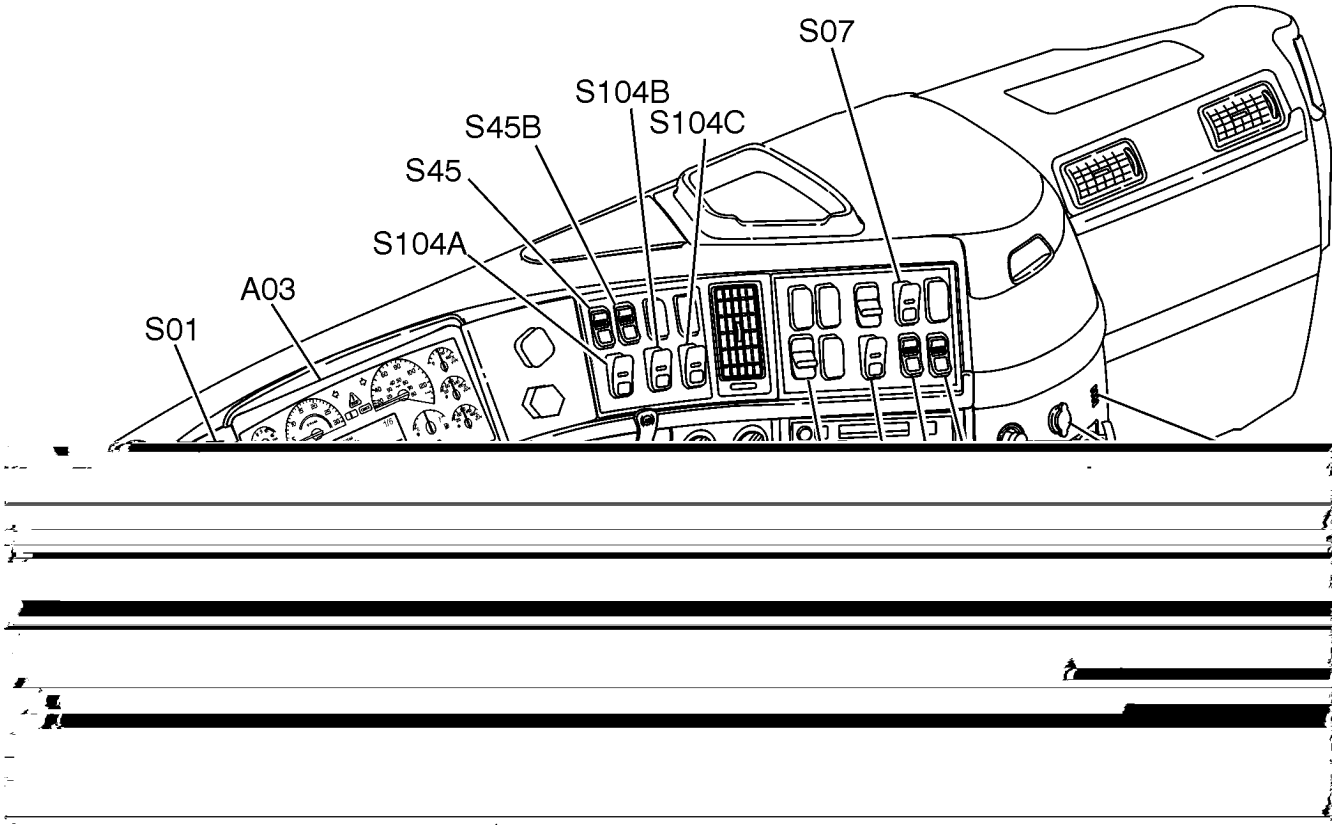
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Cab Wiring Passthrough



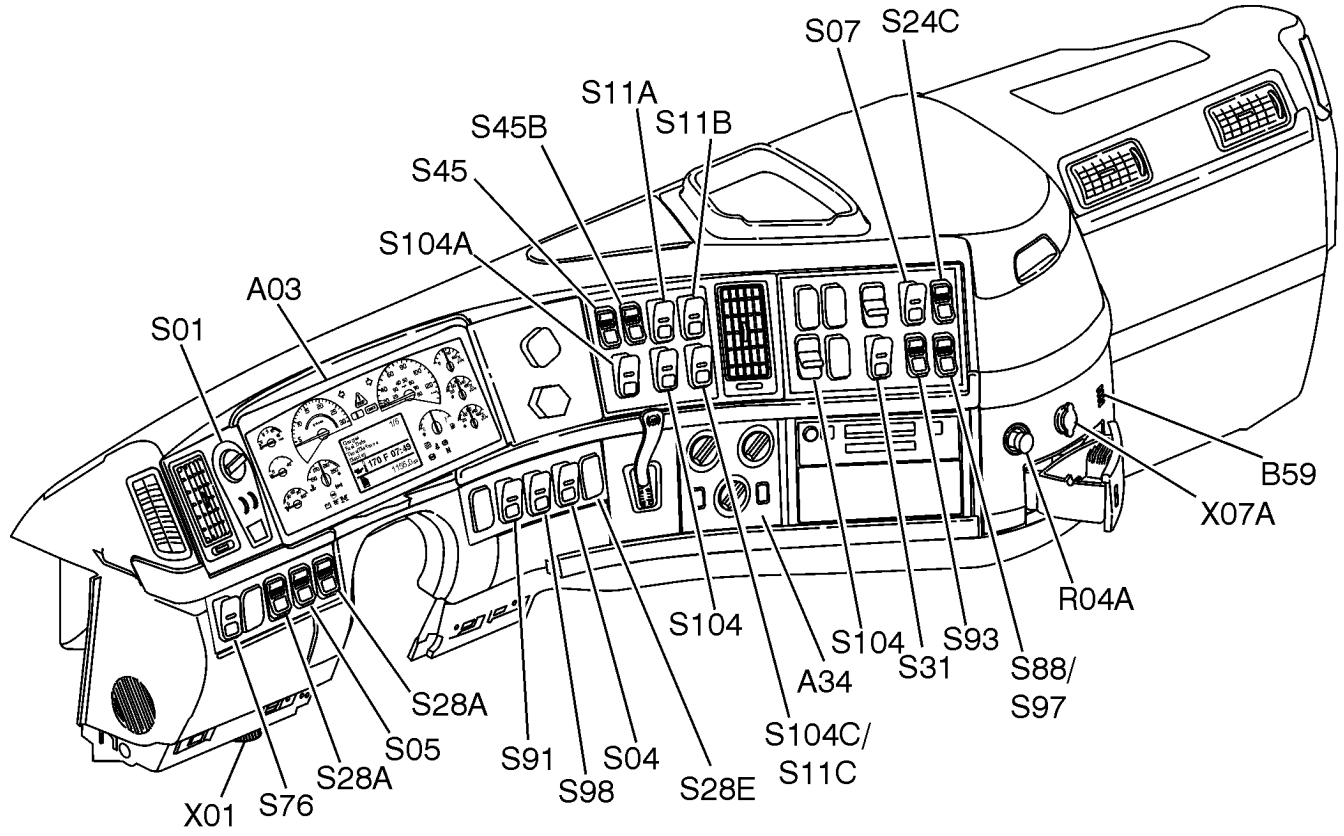
* NOTE: PJEN & RLY42 ARE ONLY USED WITH VOLVO ENGINES

Dash Switches, VN



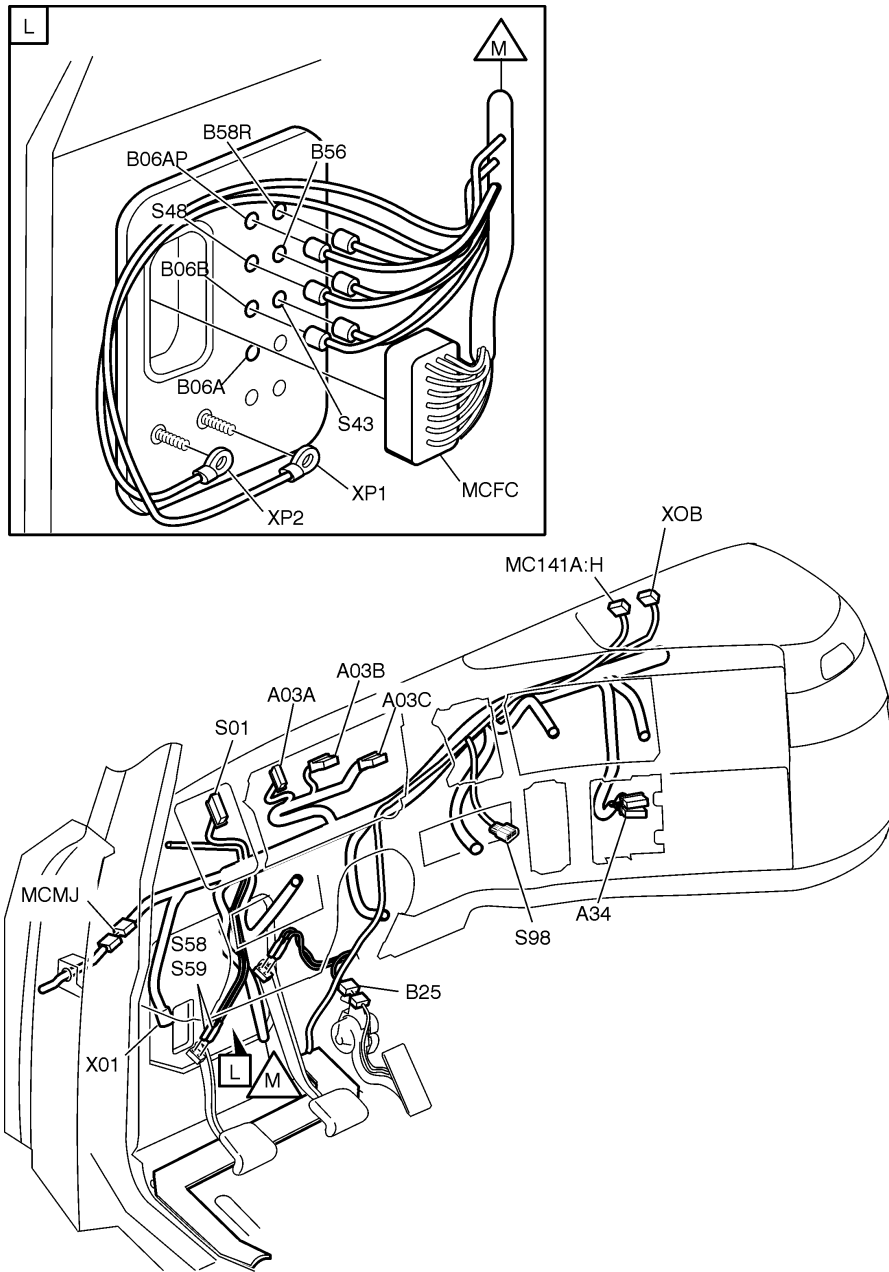
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Dash Switches, VHD



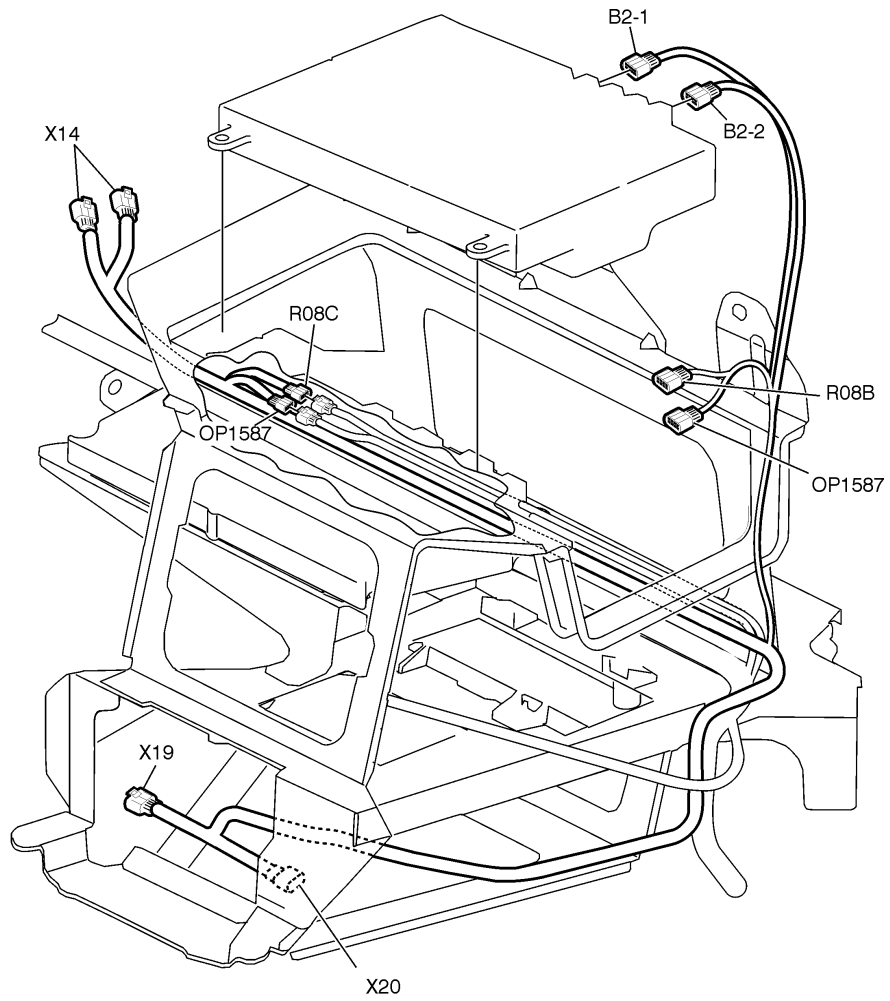
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Dash Harness and Cab Wiring Passthrough



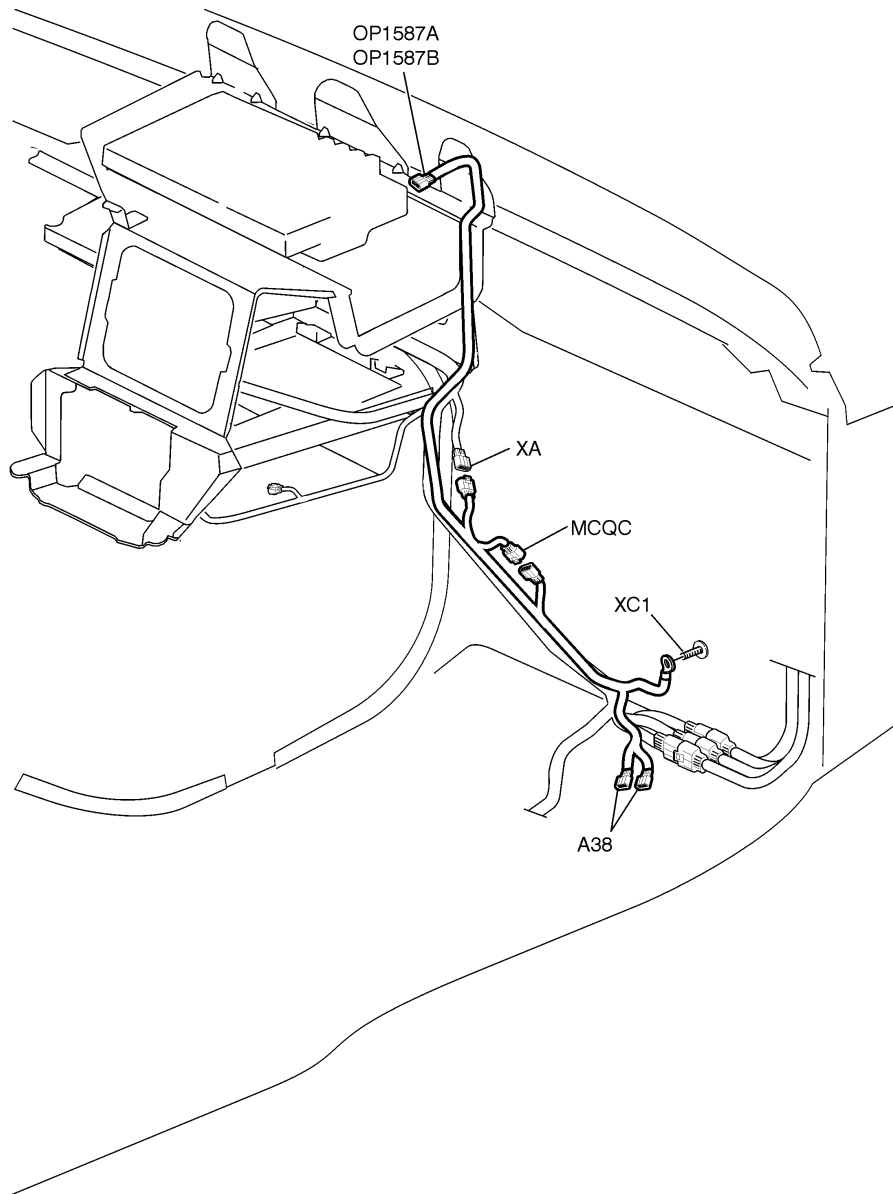
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Dash Harness, Road Relay



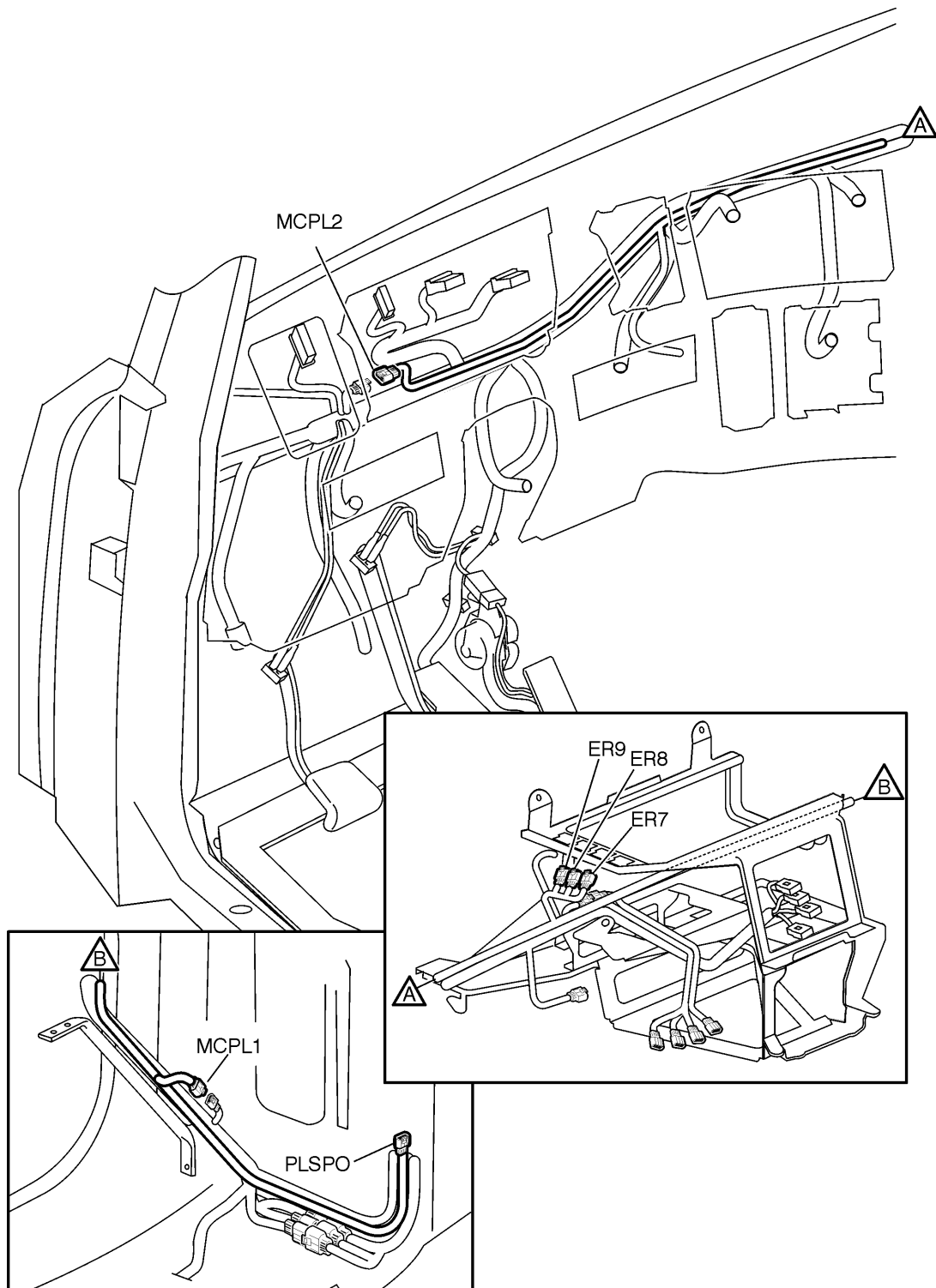
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Dash Harness, Qualcomm



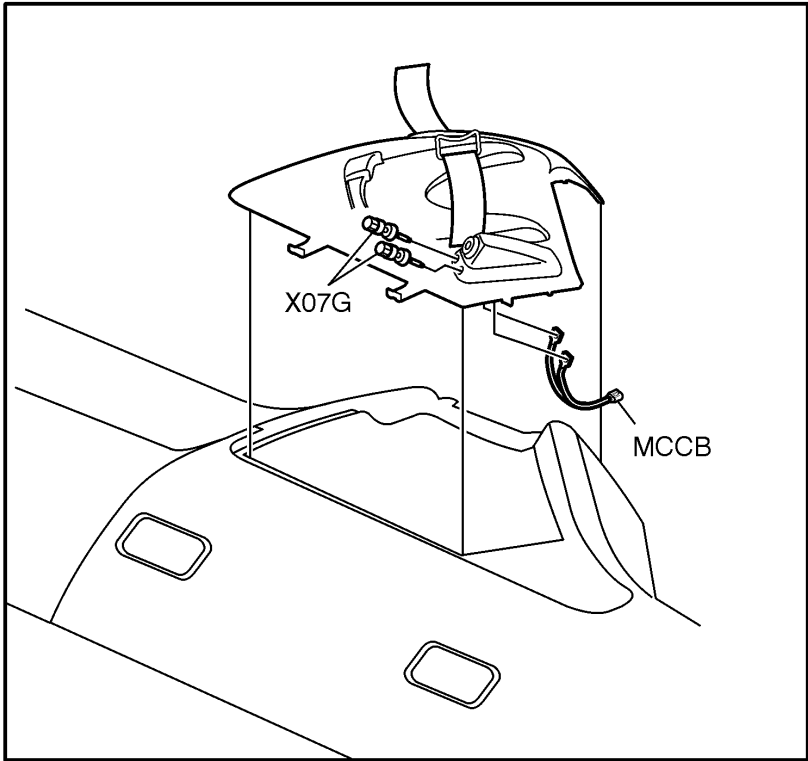
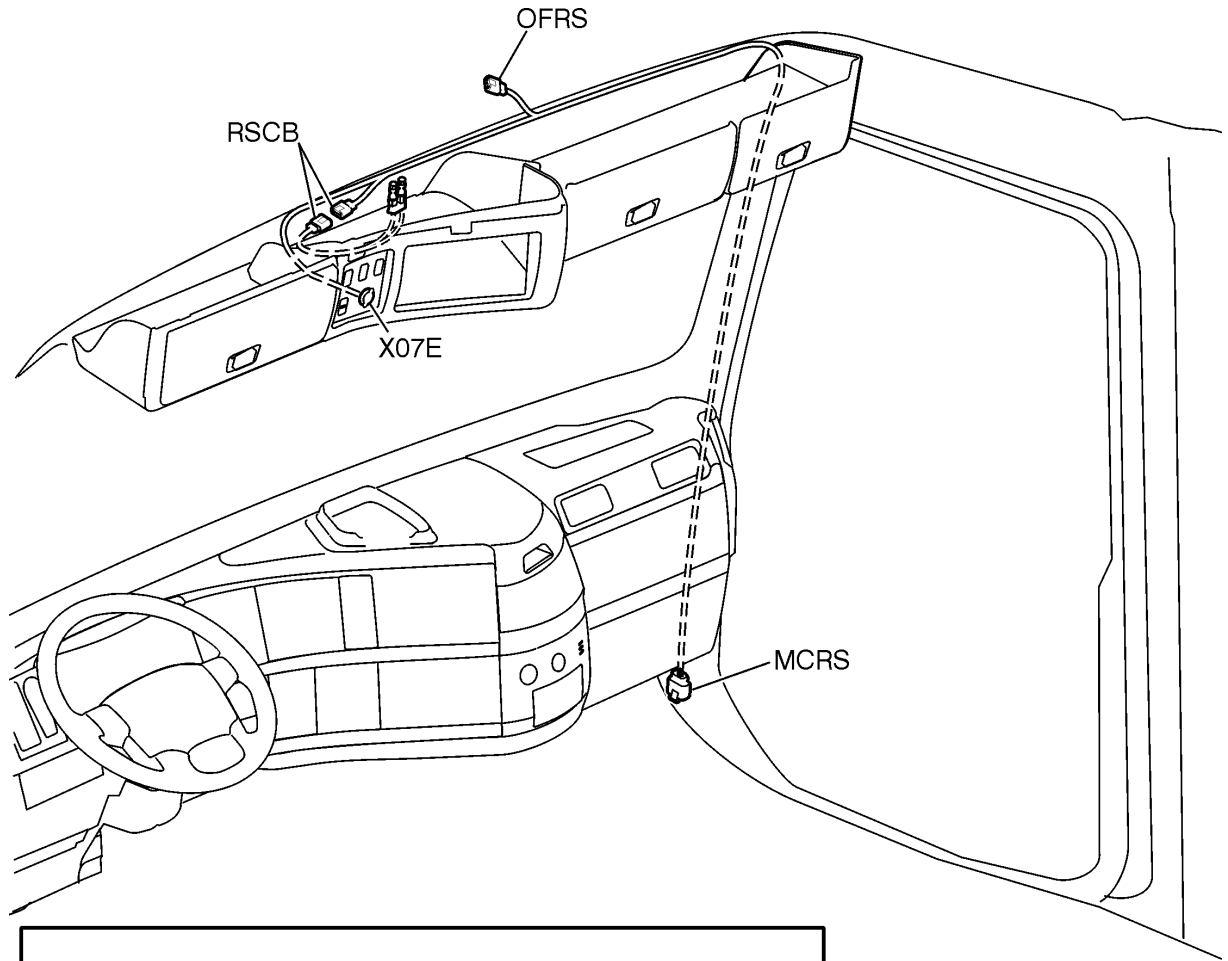
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Dash Harness, Snowplow Lights Option



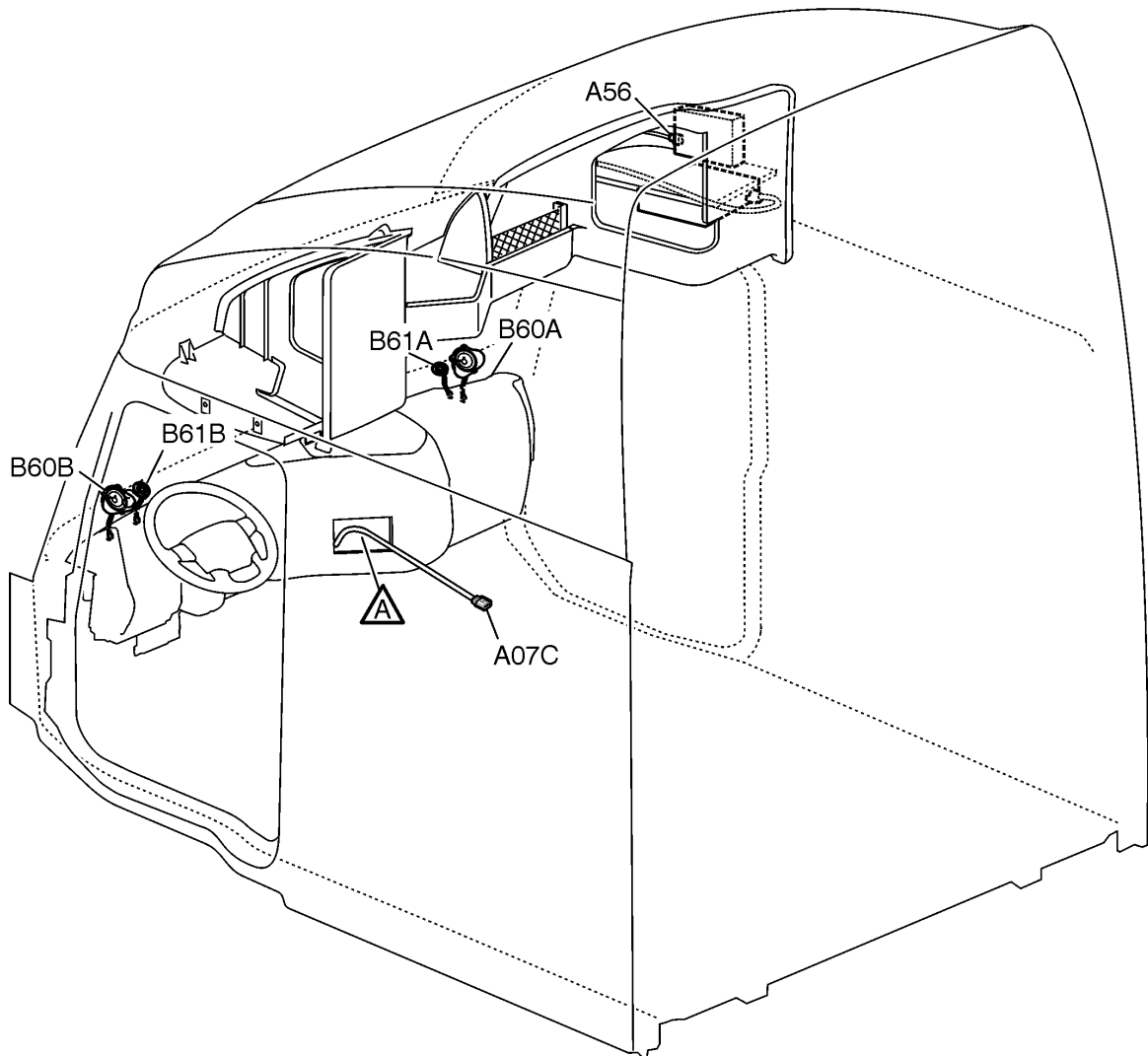
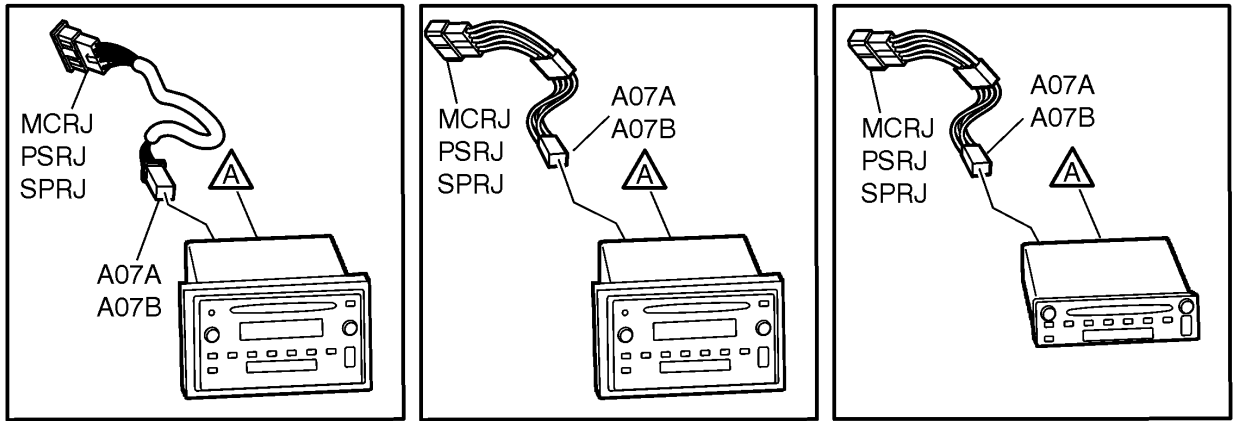
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Front Overhead Shelf/CB Power Harness

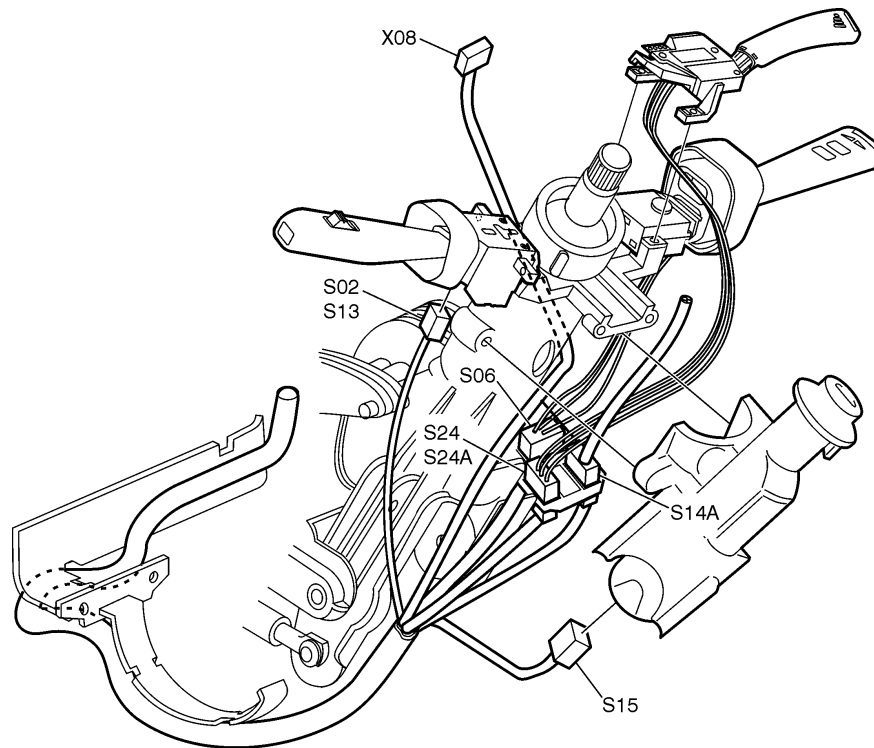


W3005899

Radio Harness

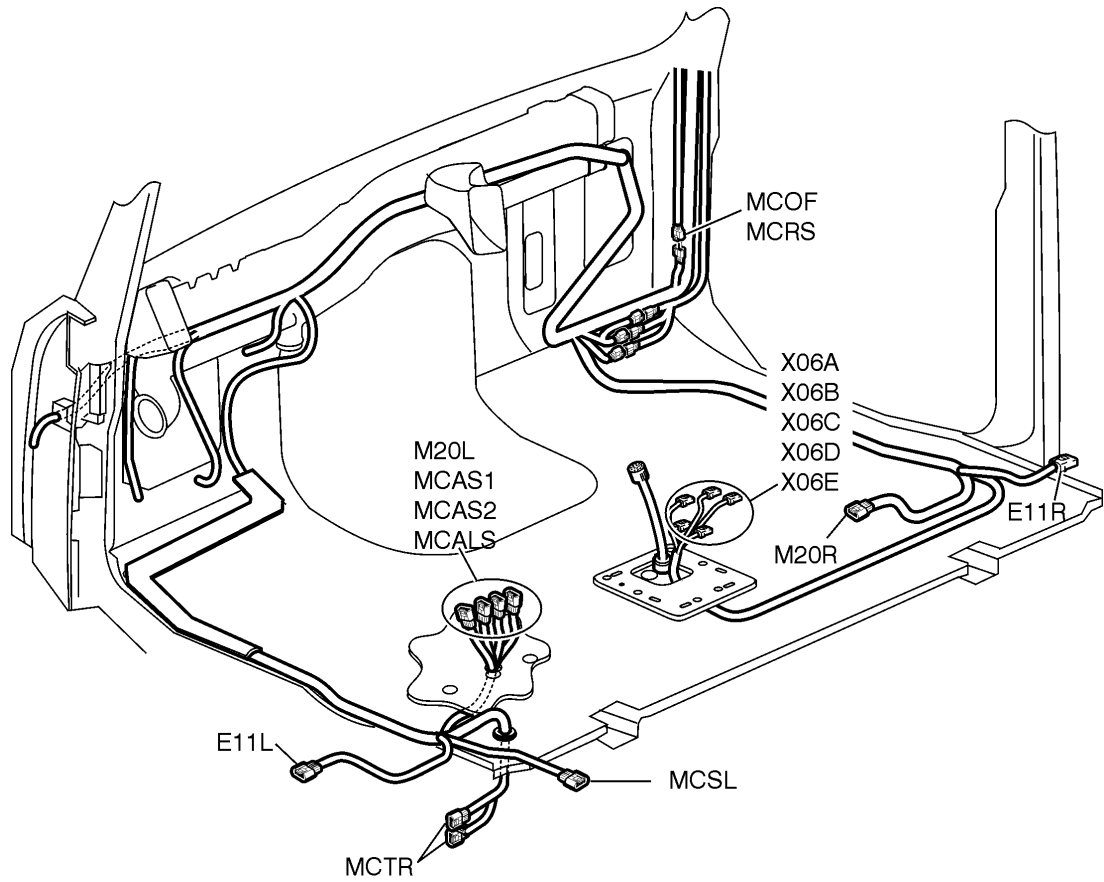


Steering Column Harness, Including Stalk Switches



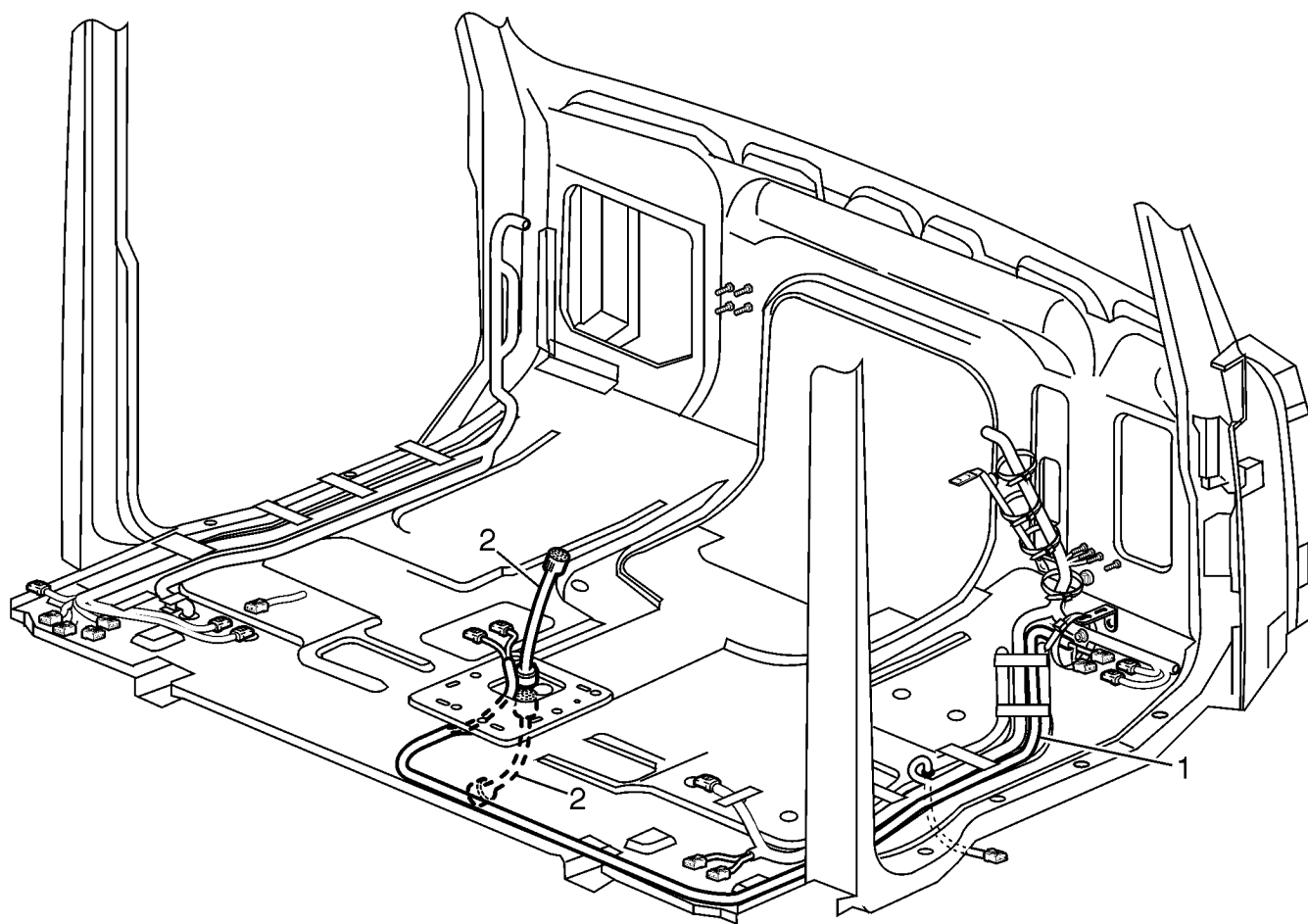
W3005949

Cab Floor Harnesses, Front



W3005950

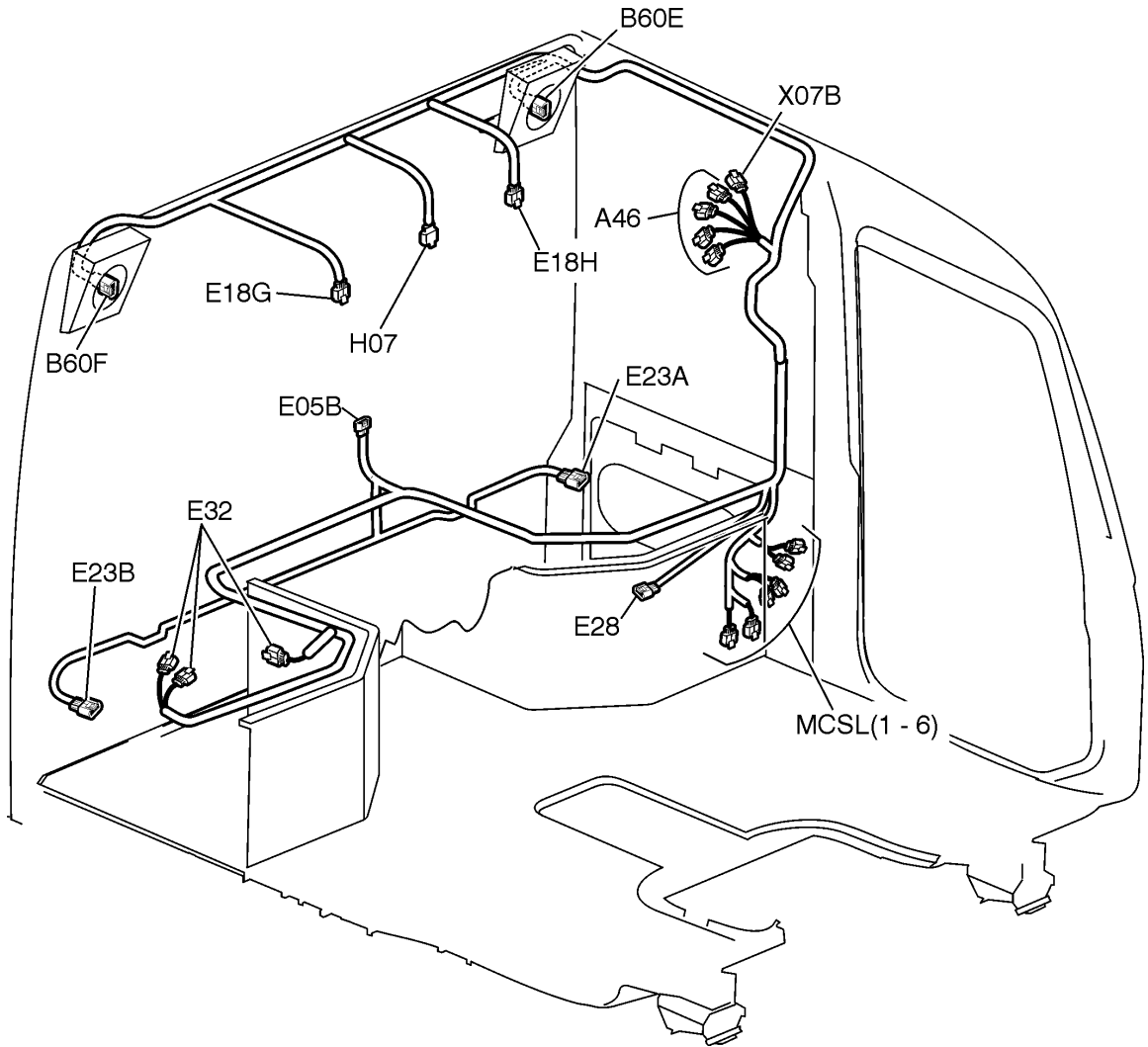
Cab Floor Harness, Bodybuilder Option (VHD)



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

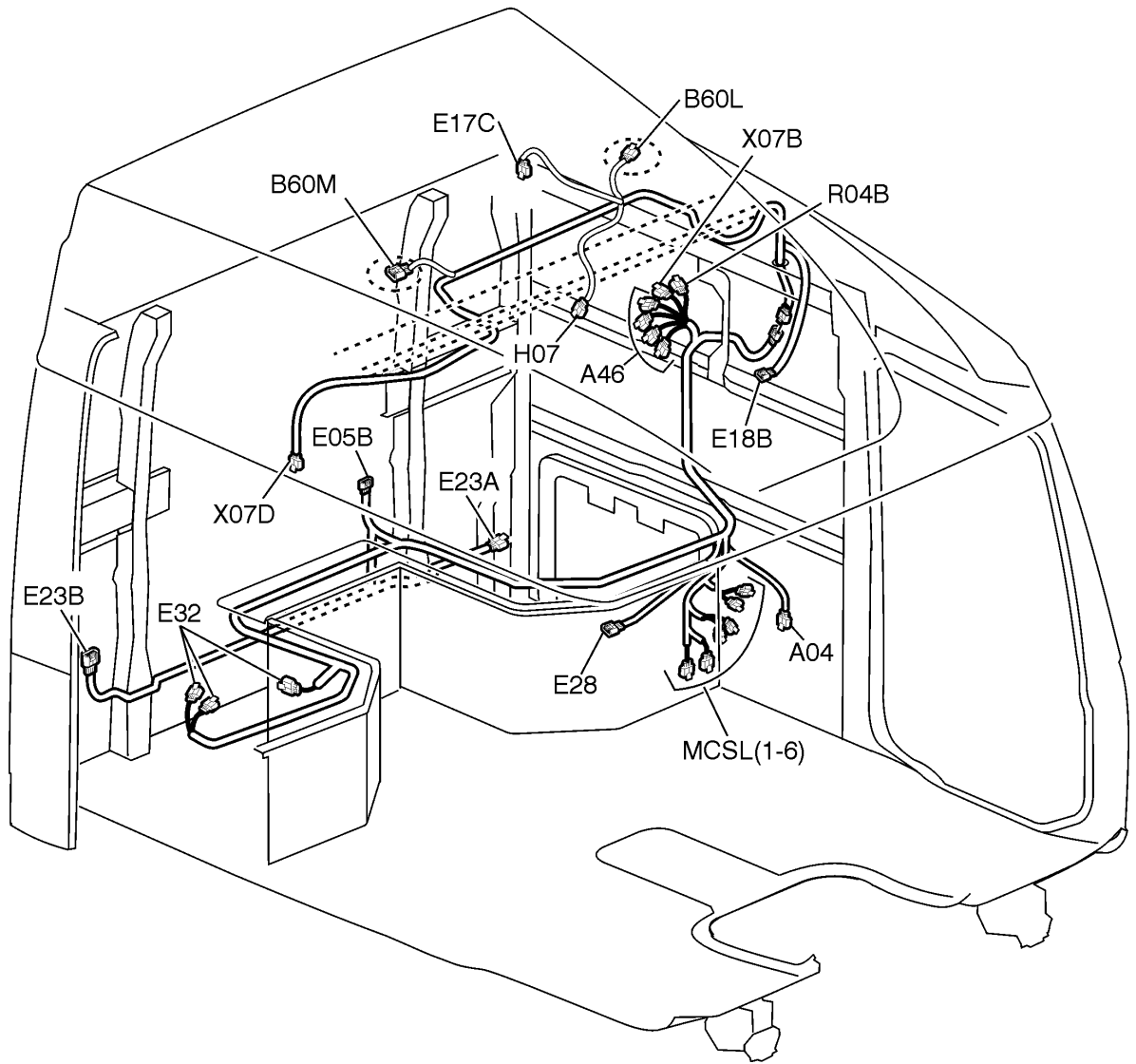
W3004424

Rear Cab Harness, VN430



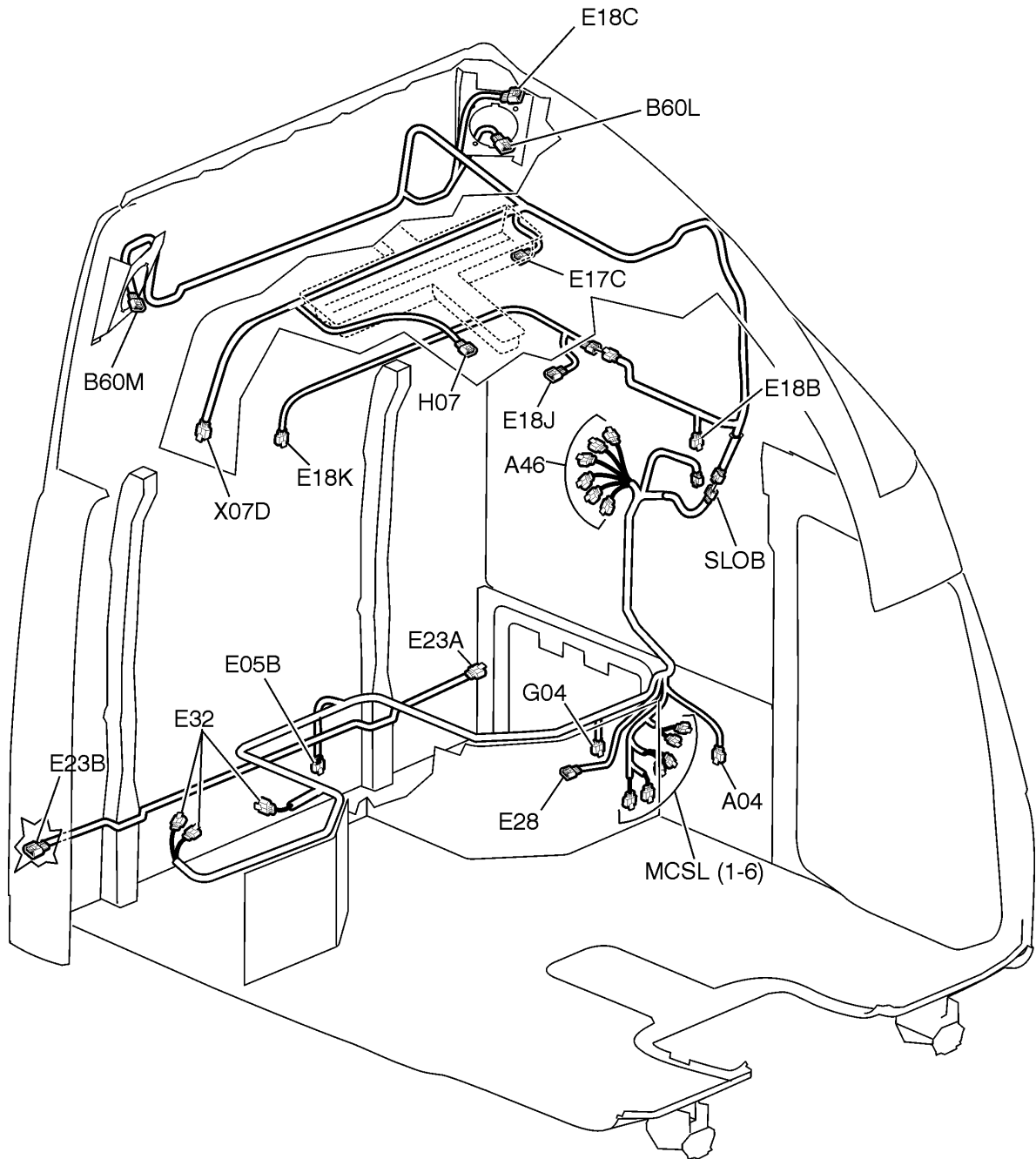
W3005902

Rear Cab Harness, VN630



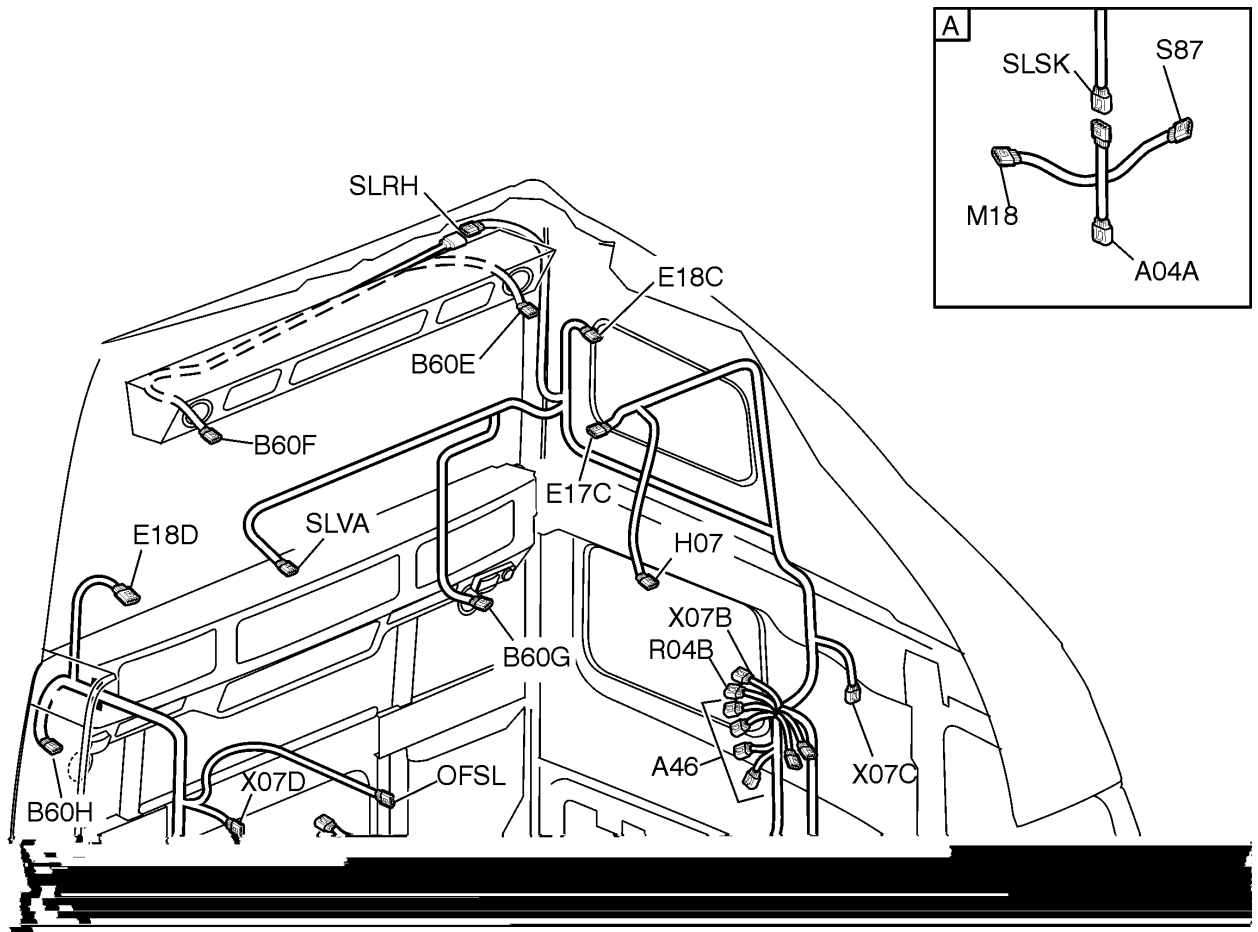
W3005896

Rear Cab Harness, VN670



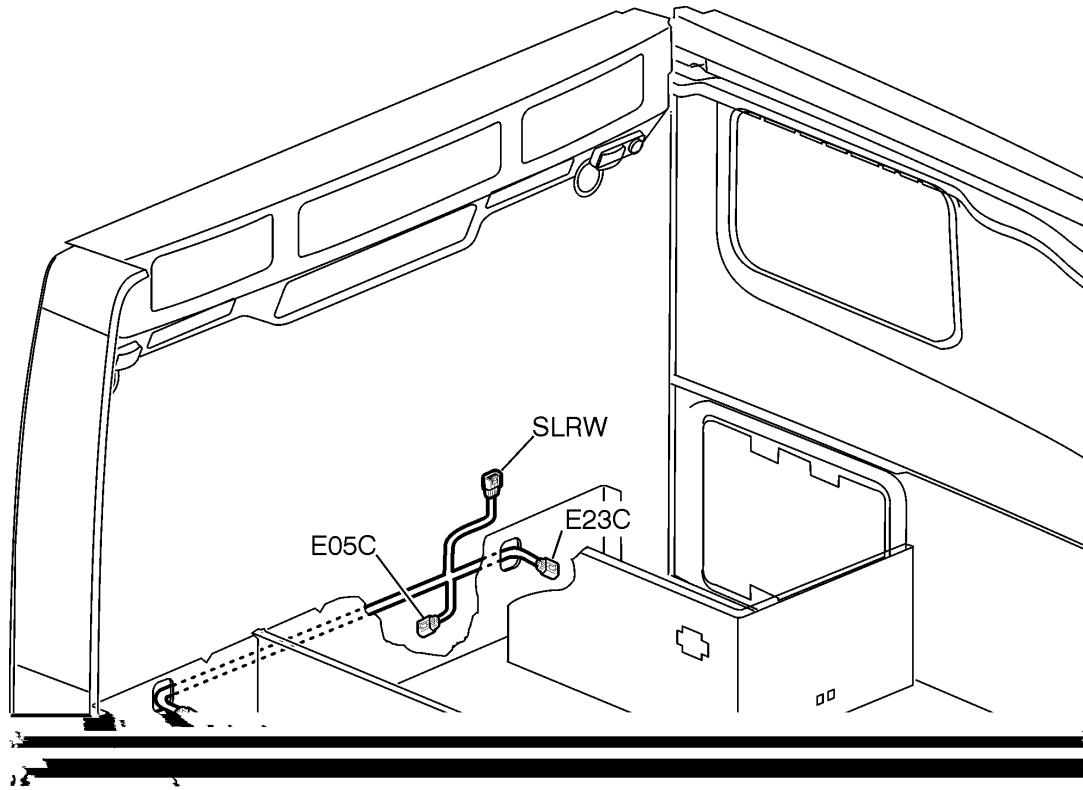
W3005887

Rear Cab Harness, VN780



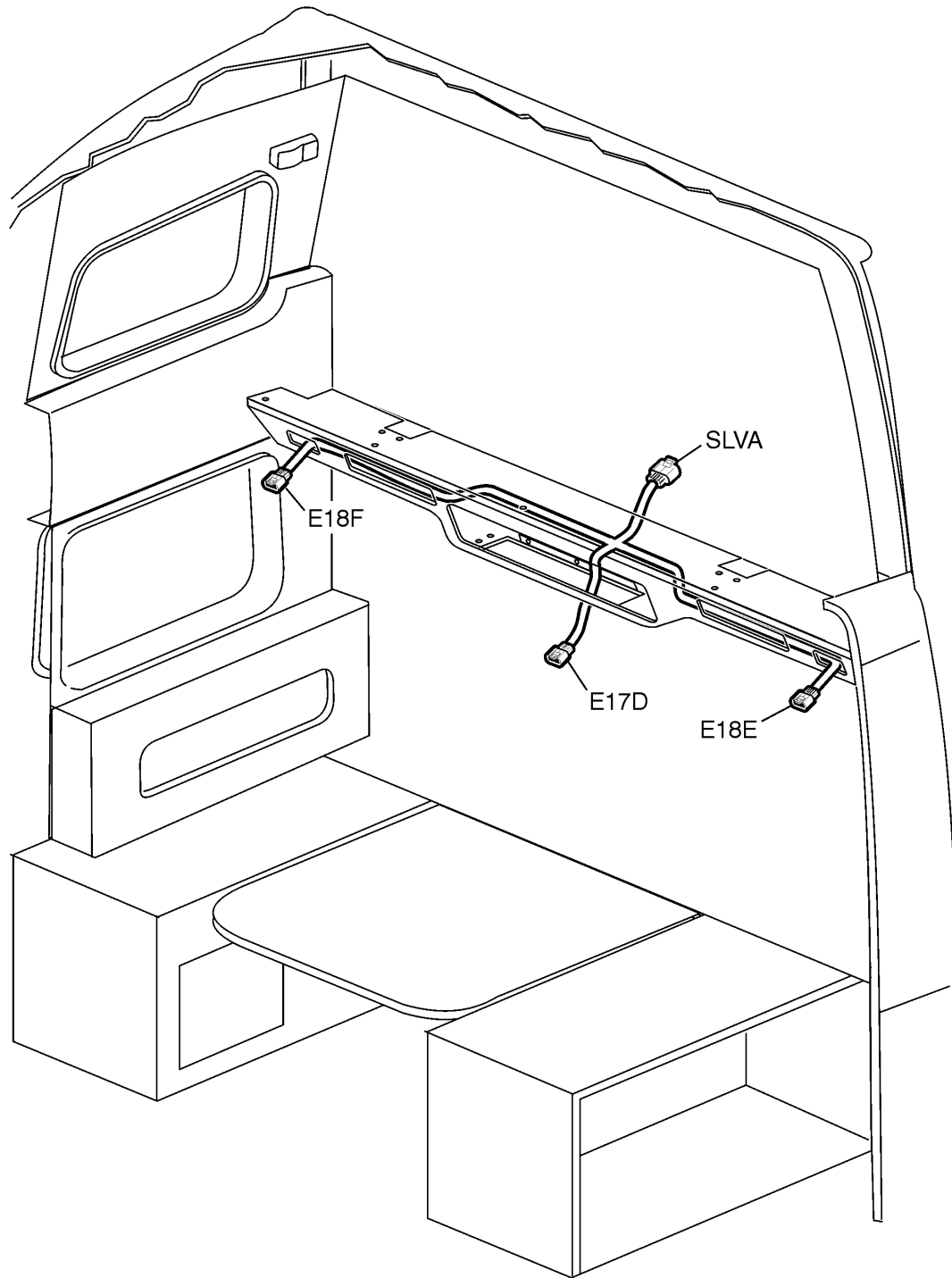
W3005889

Rear Cab, Lower Wall Harness, VN780



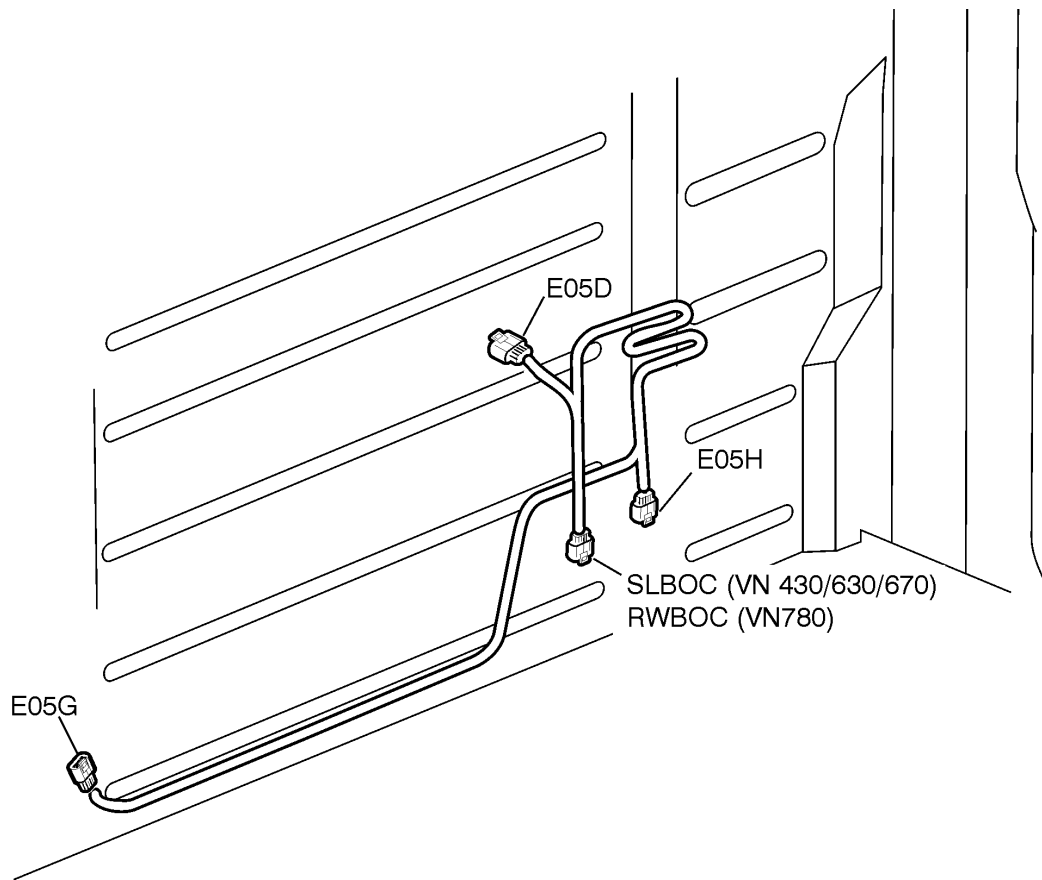
W3005888

Rear Cab Valance Harness, VN780



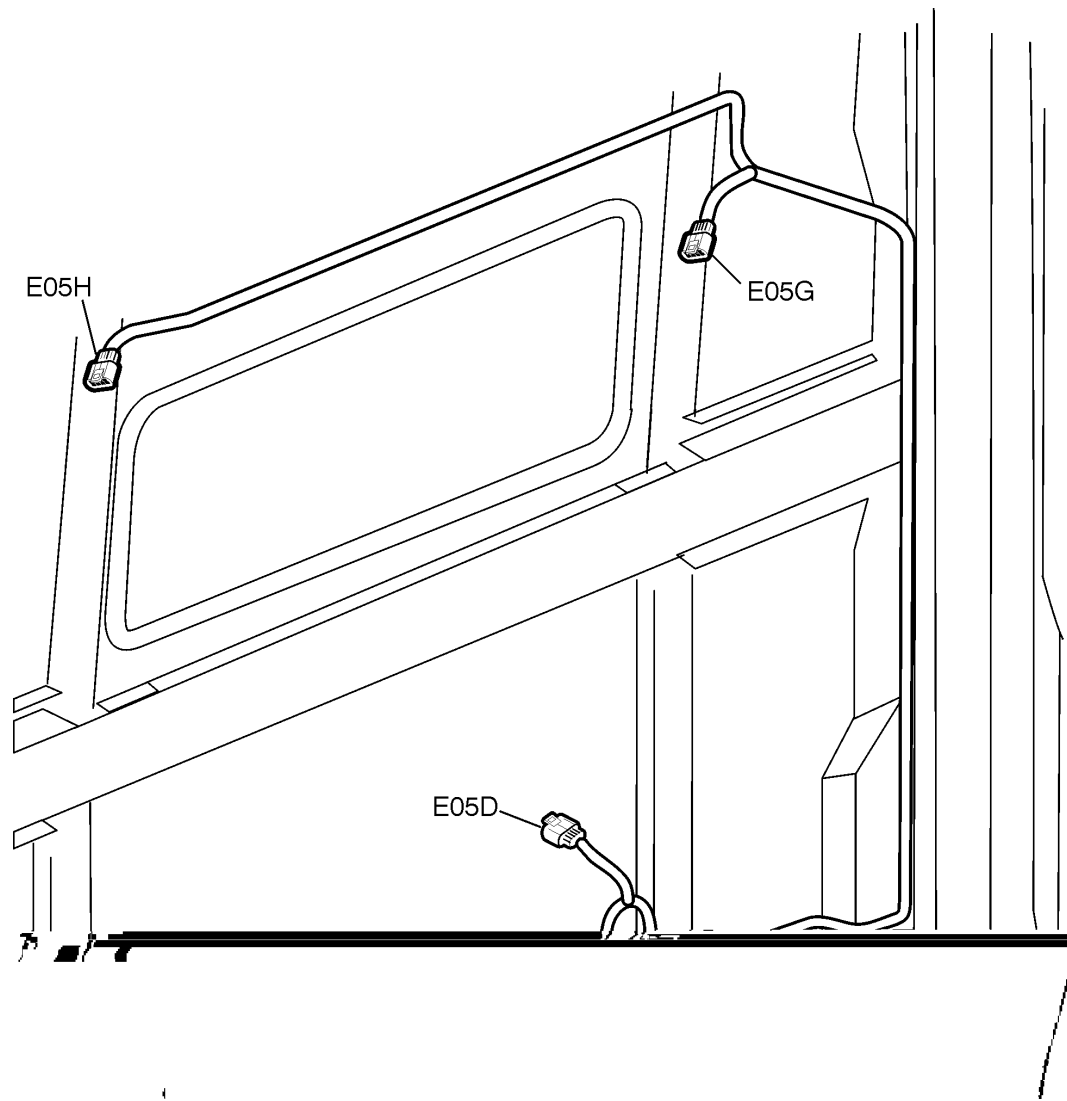
W3005936

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



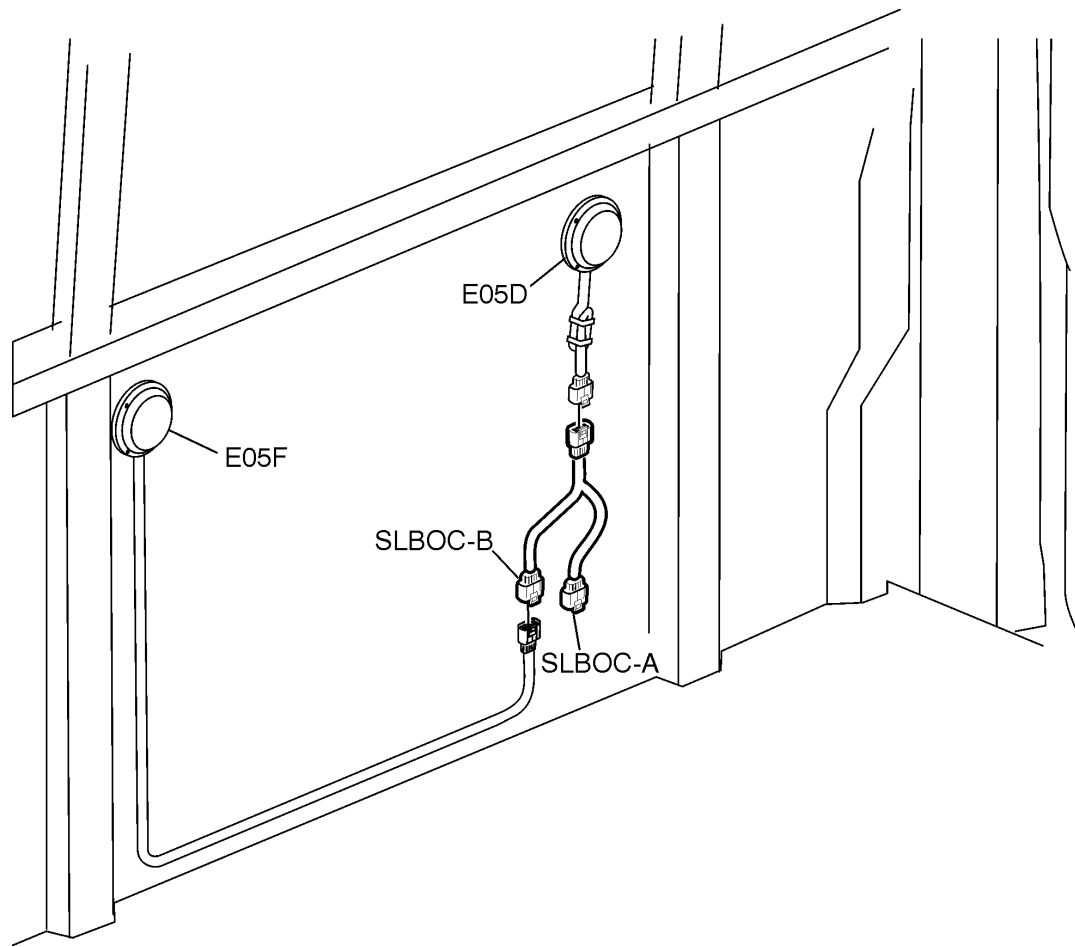
W3005905

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



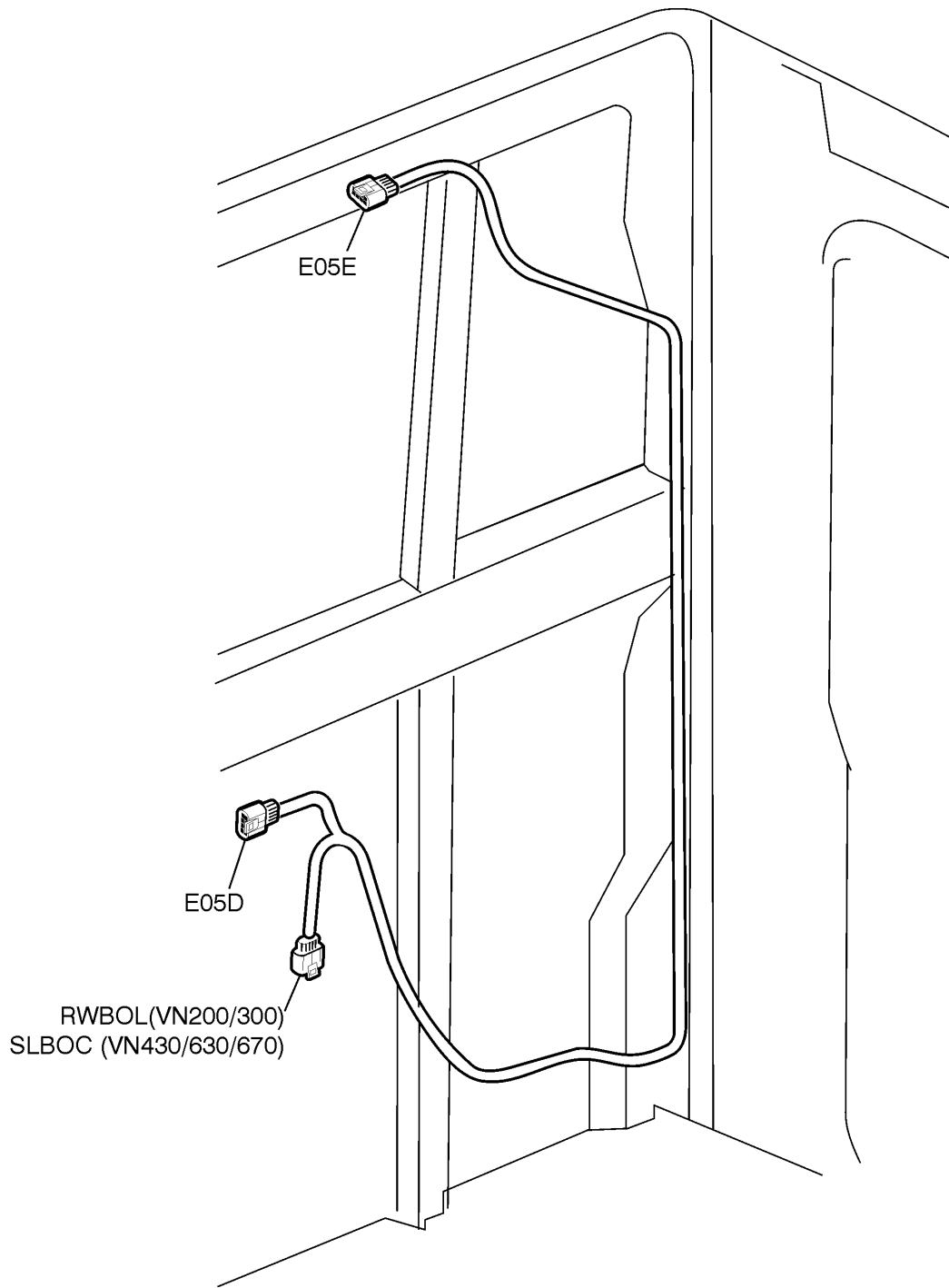
W3005903

Rear Cab Harness, Fifth Wheel Light



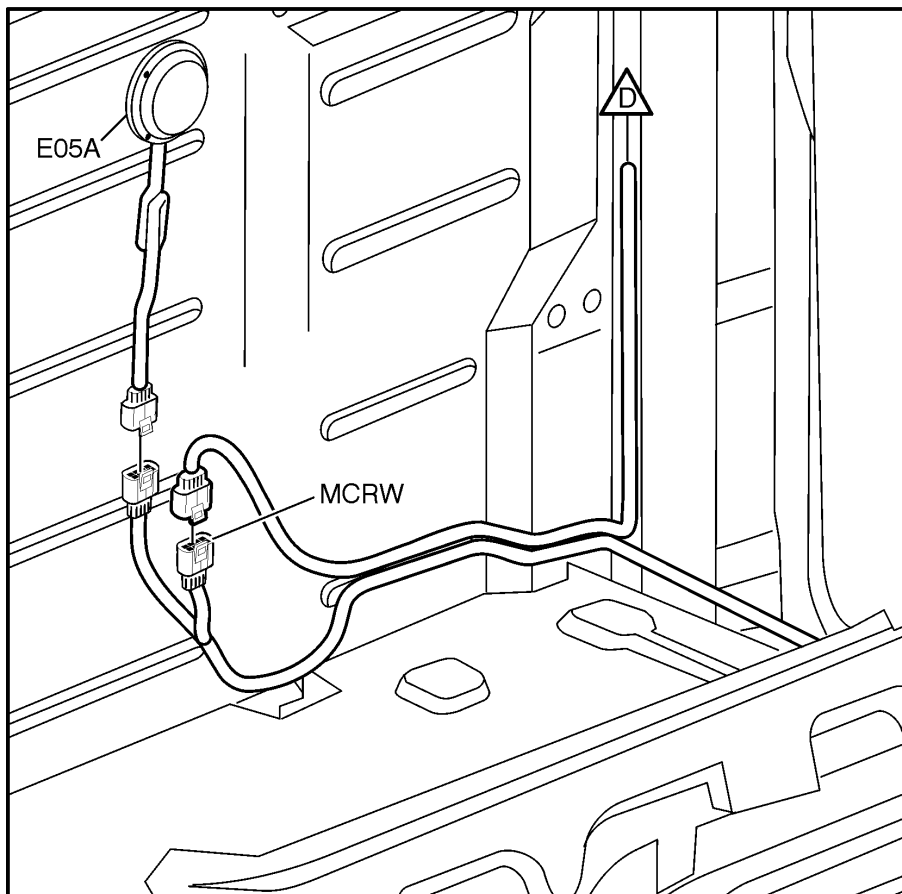
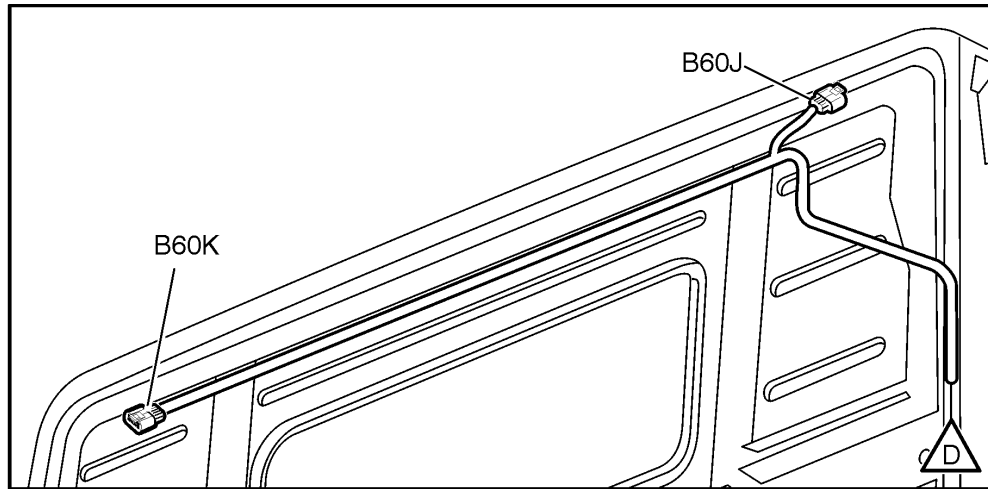
W3005906

Rear Cab Harness, Fifth Wheel Light



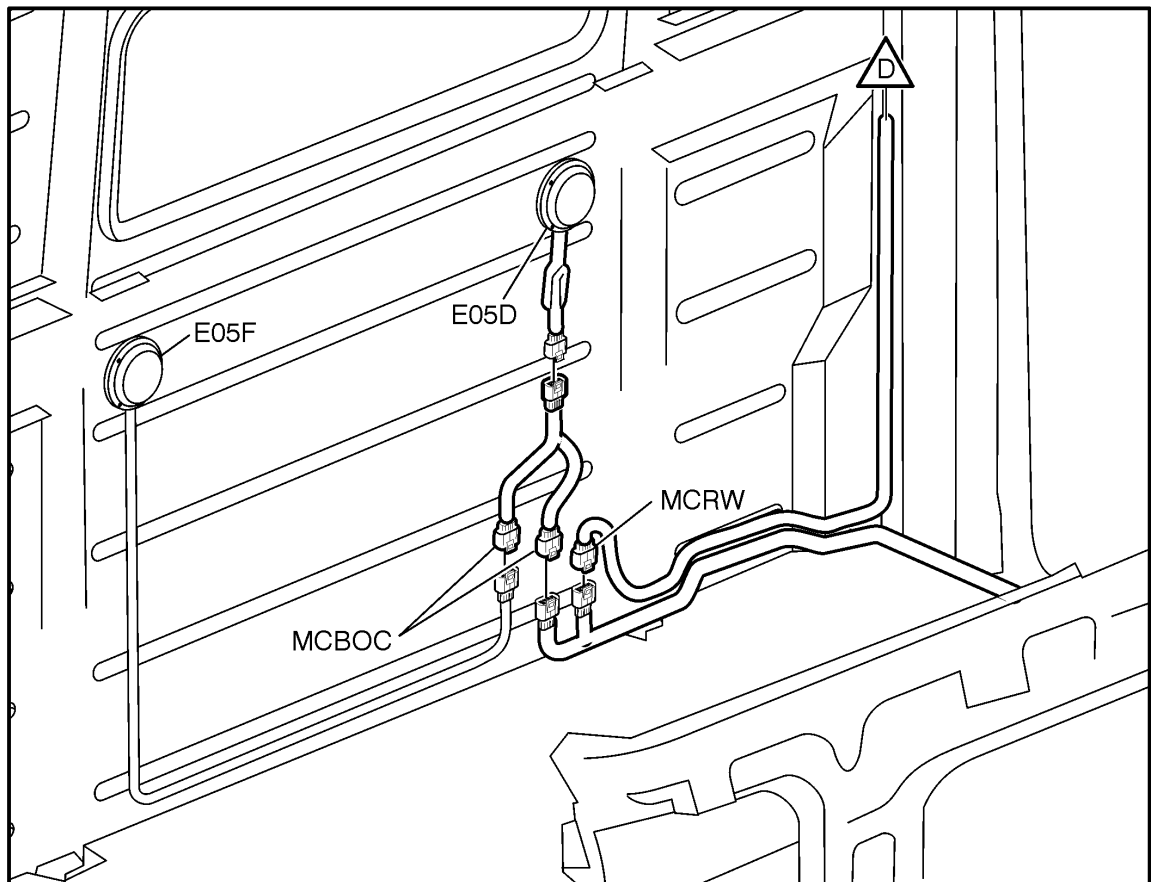
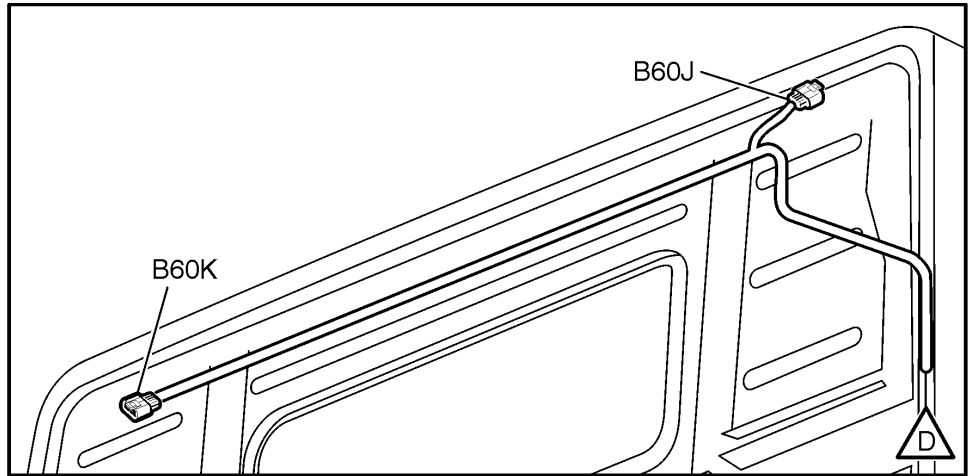
W3005904

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



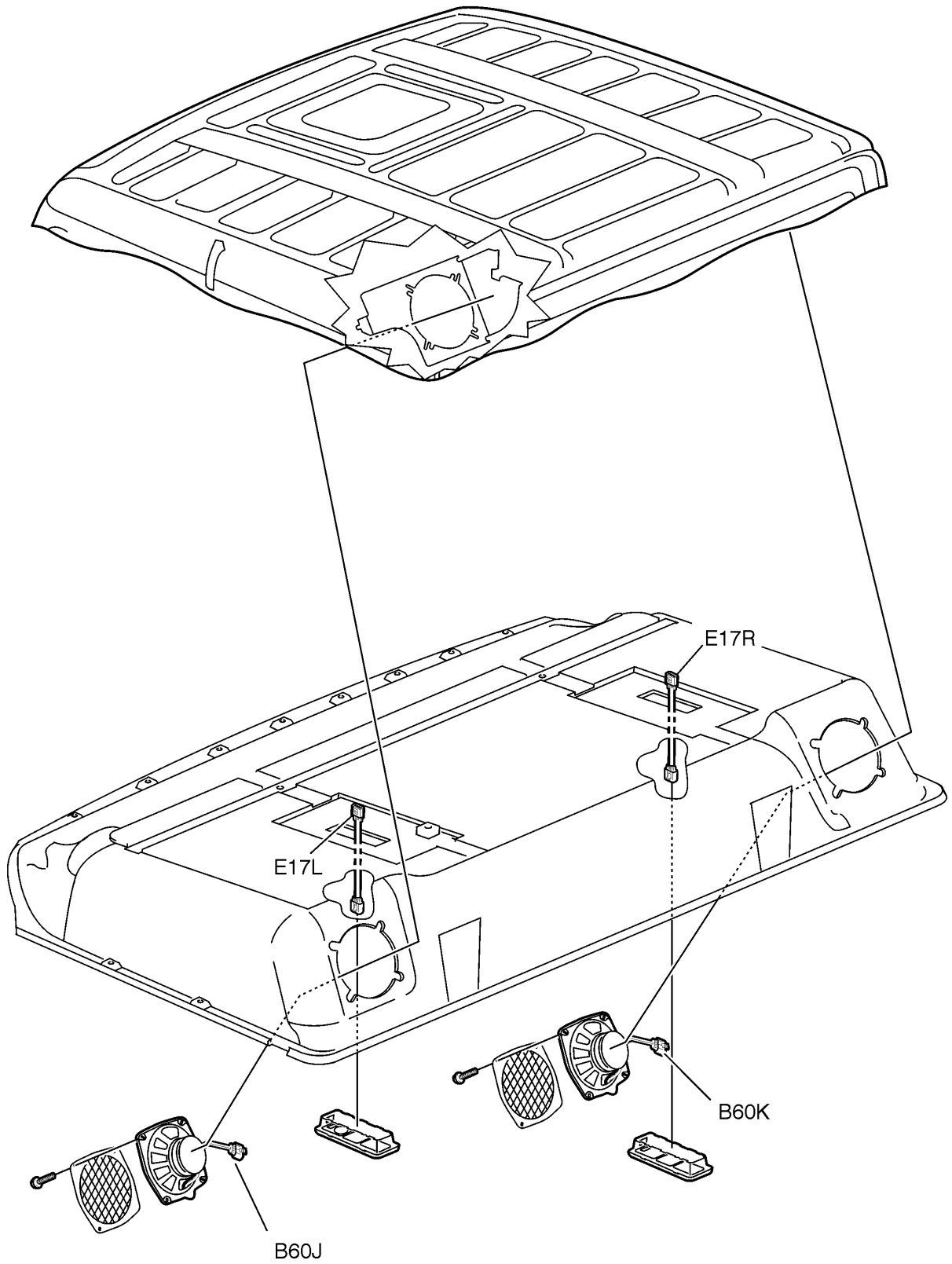
W3005895

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

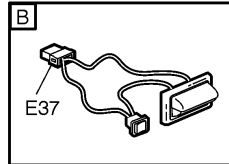
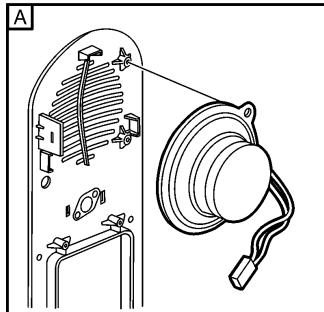
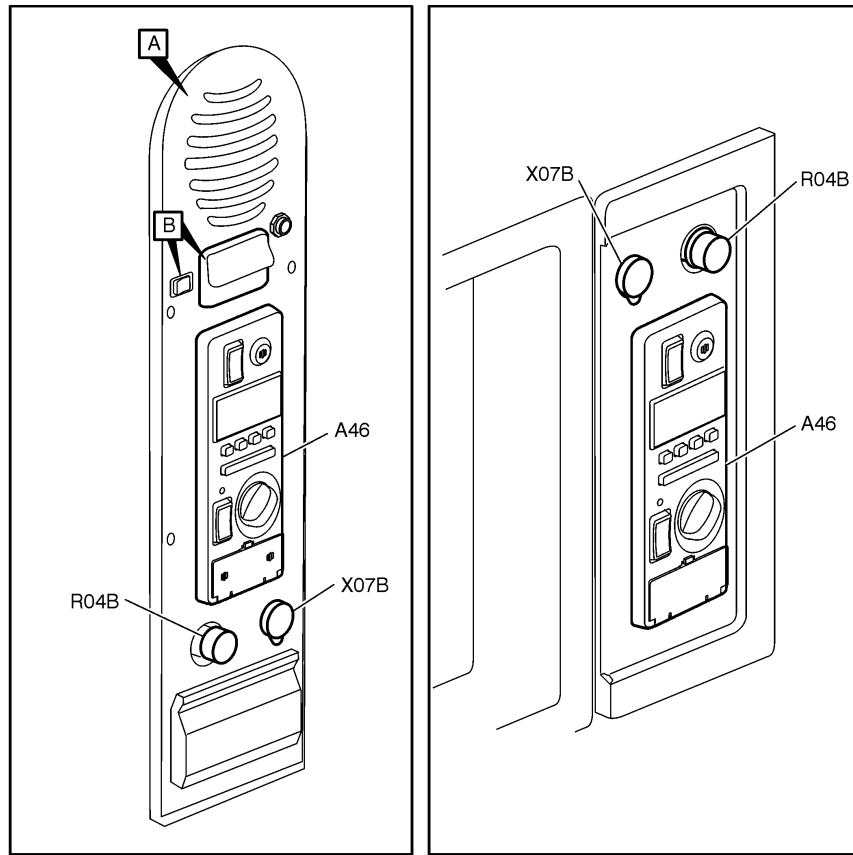


W3005897

Rear Cab Harness, Overhead Lights and Rear Speaker Detail

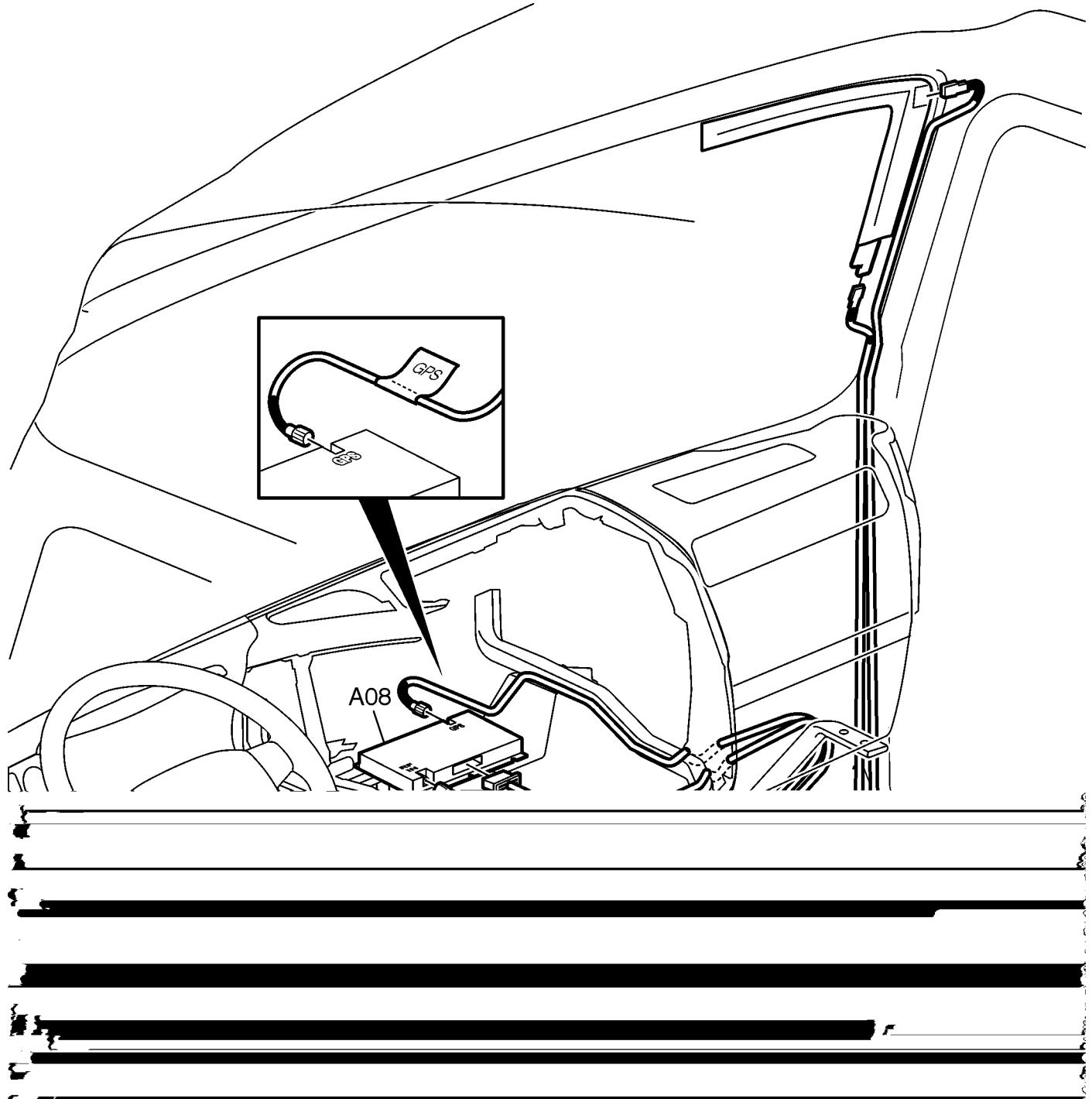


Sleeper Control Panel (LECM)



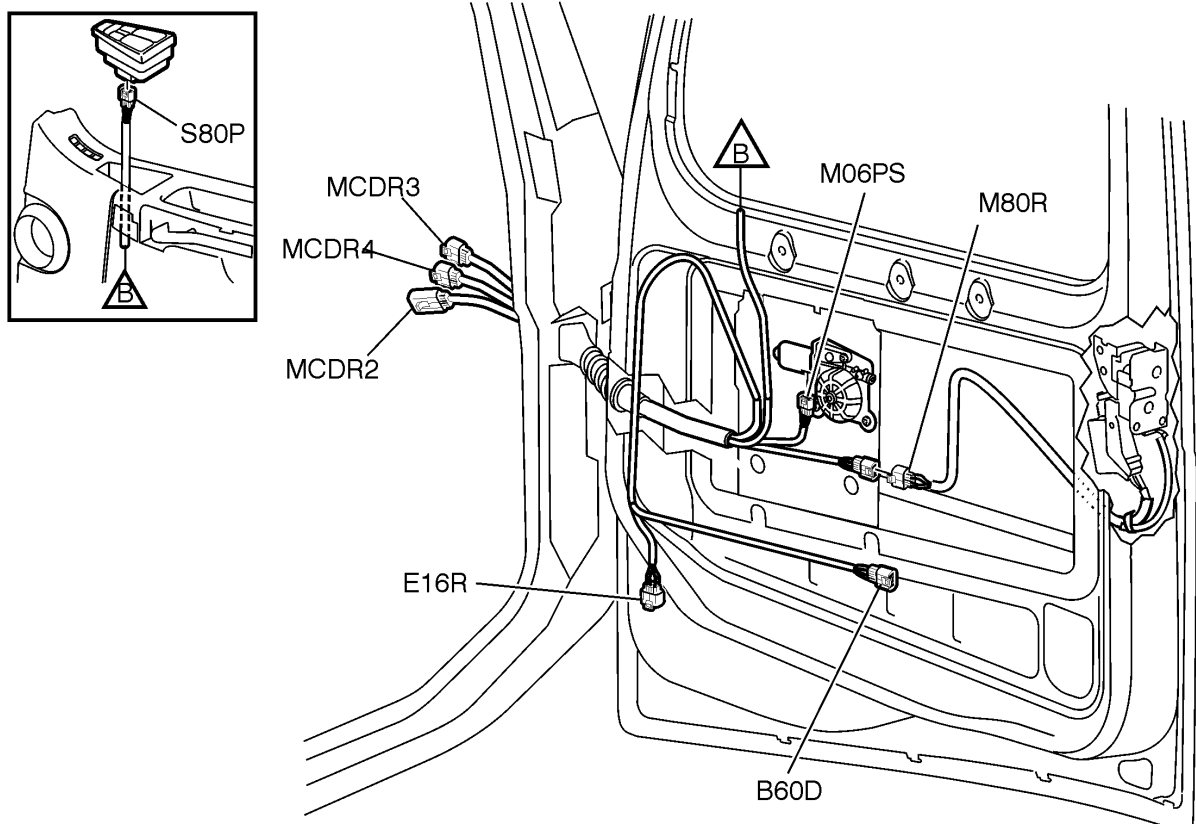
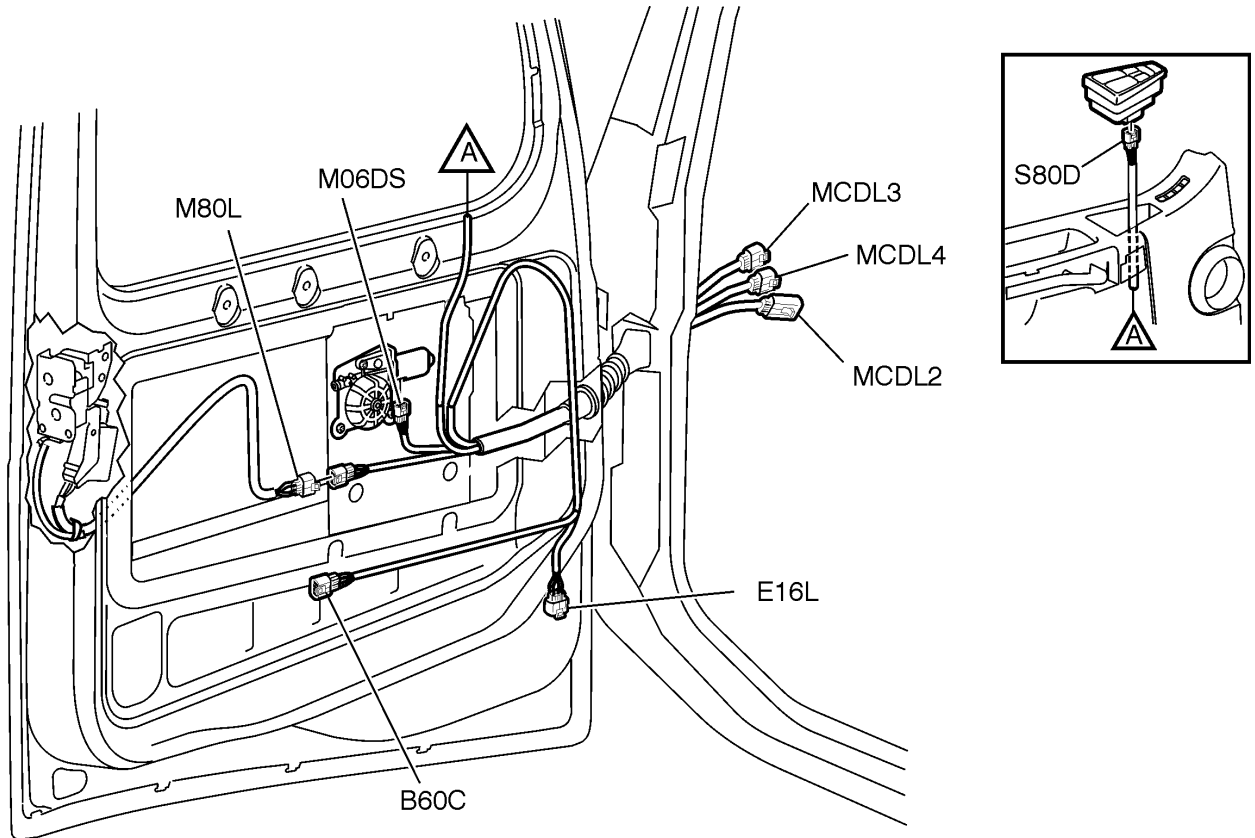
W3005951

Volvo Link Harness and Antennas



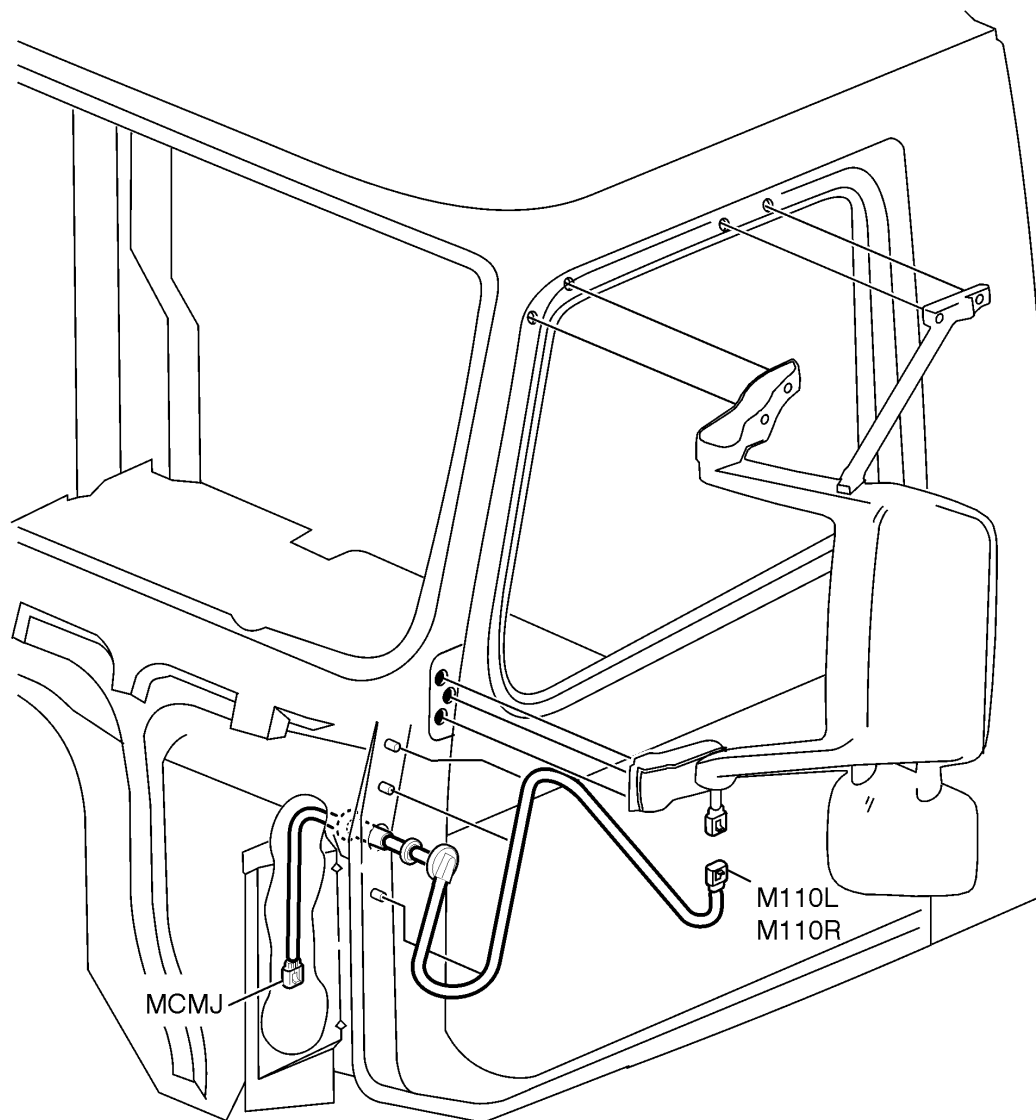
W3005956

Door Harness

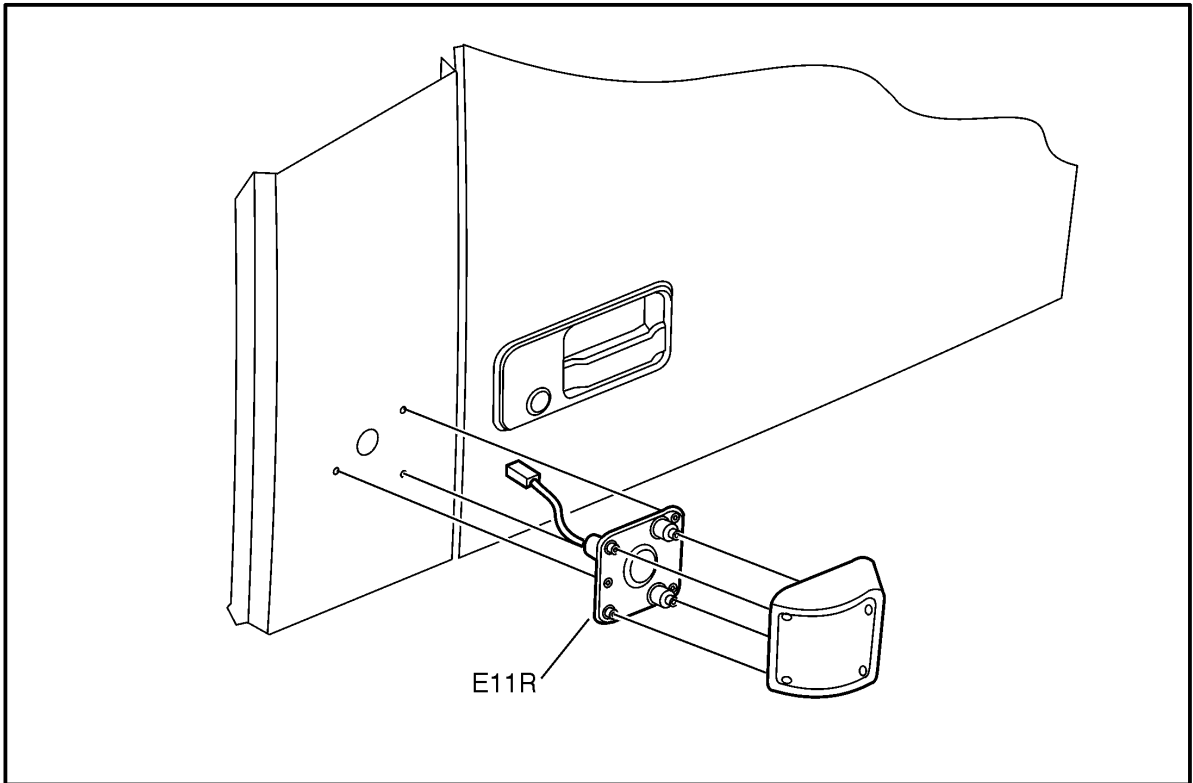
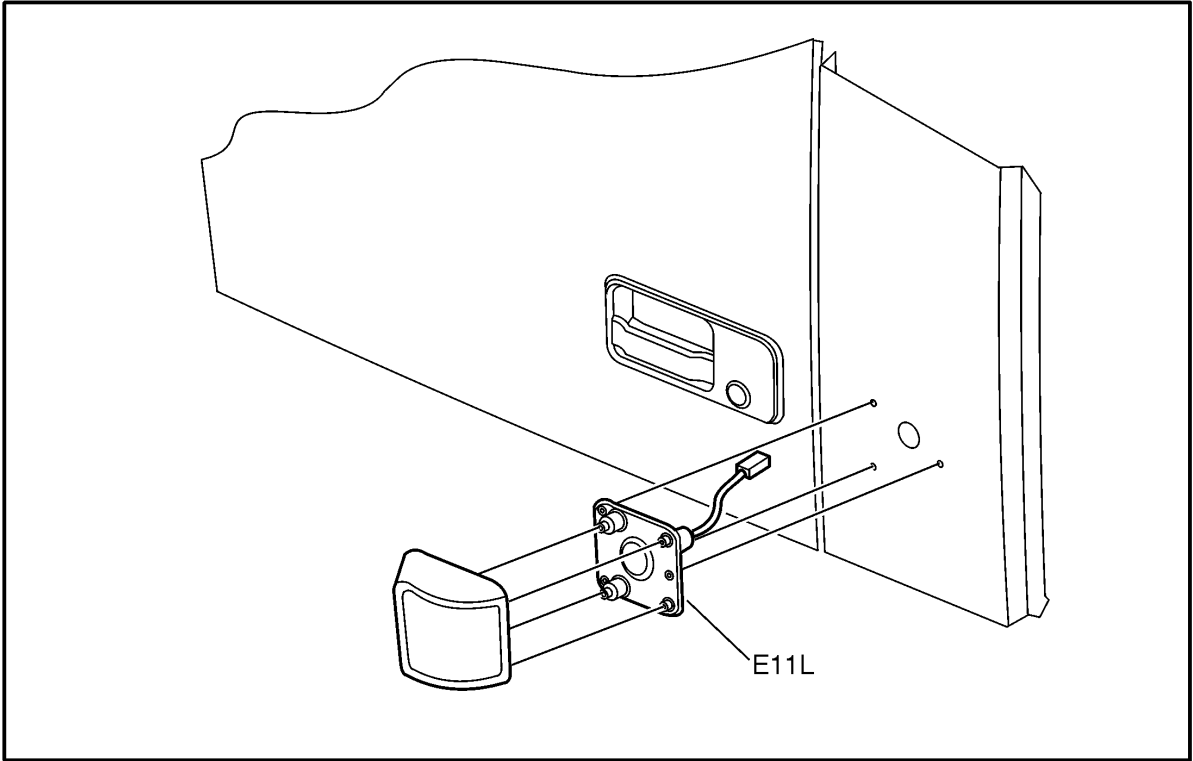


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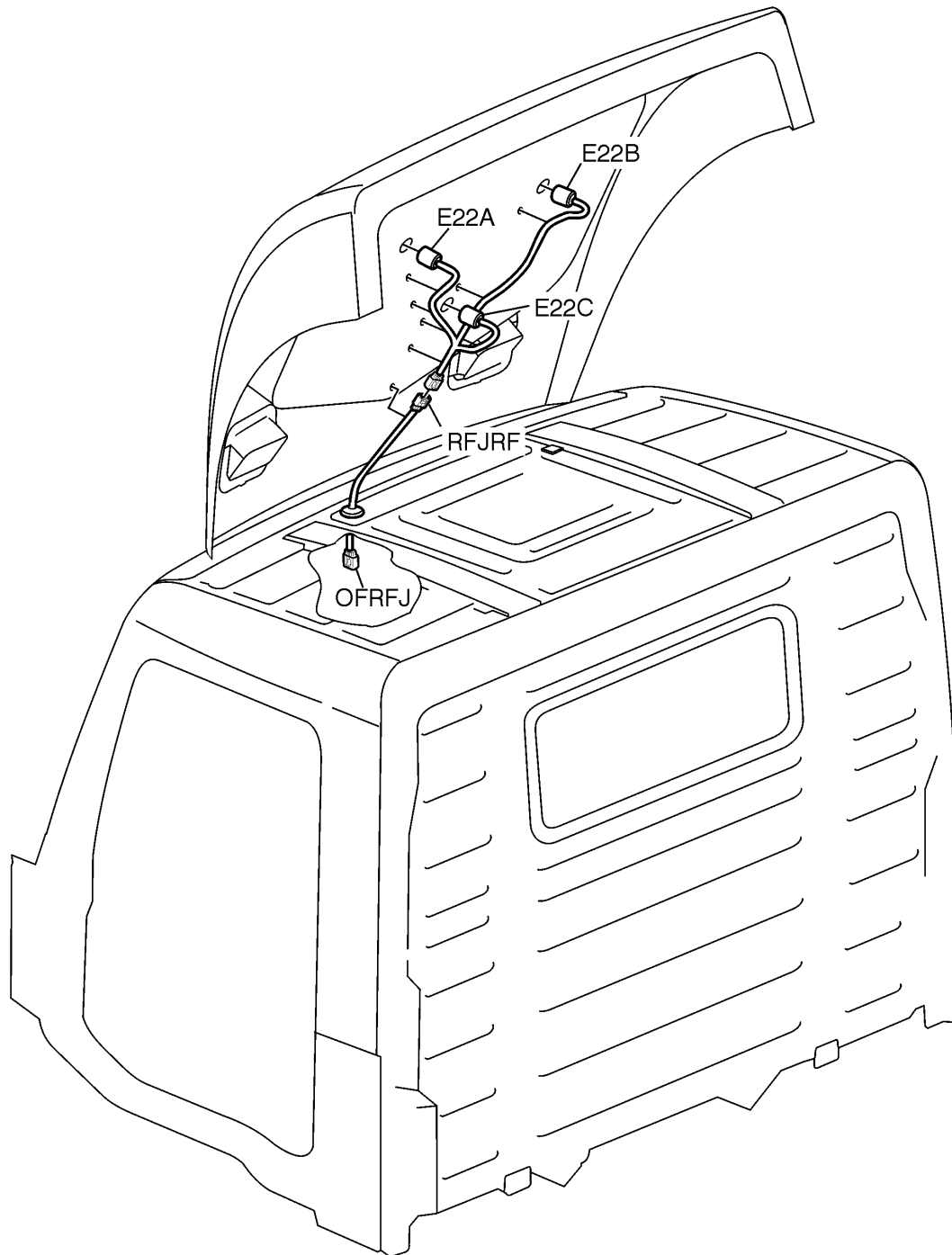
Side Mirrors



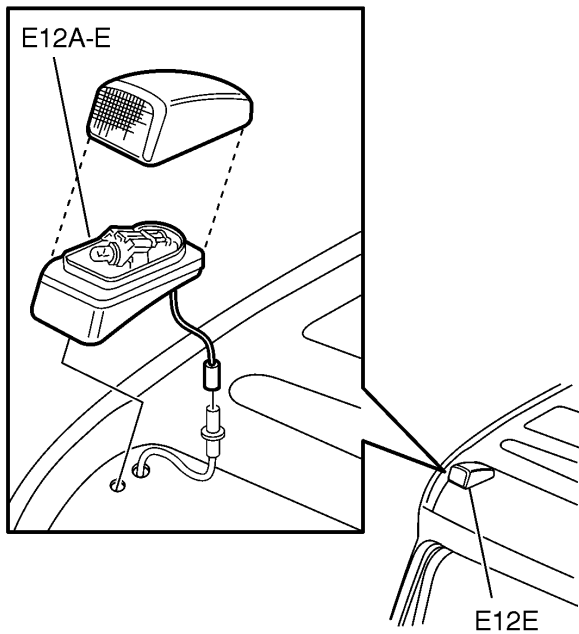
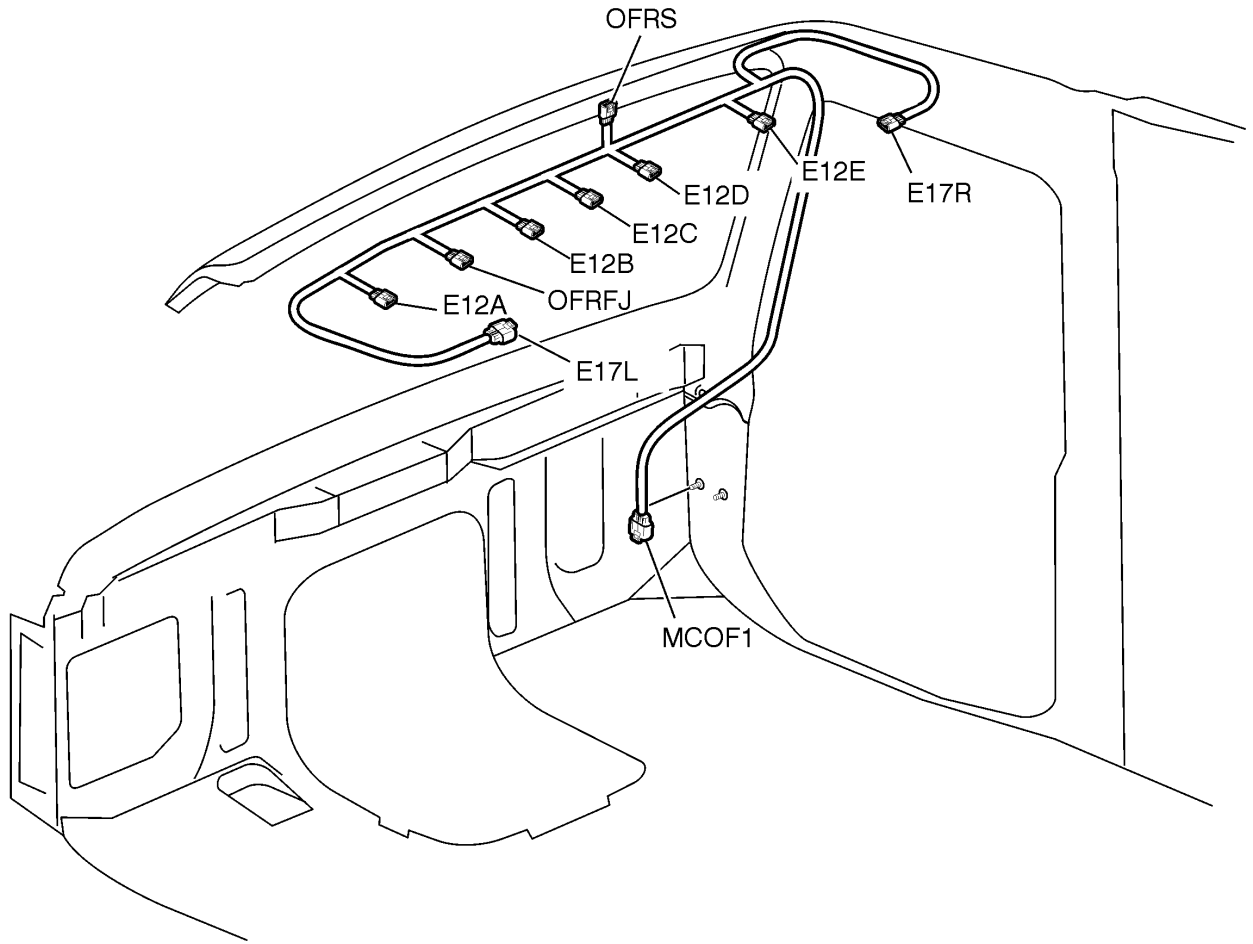
Side Markers



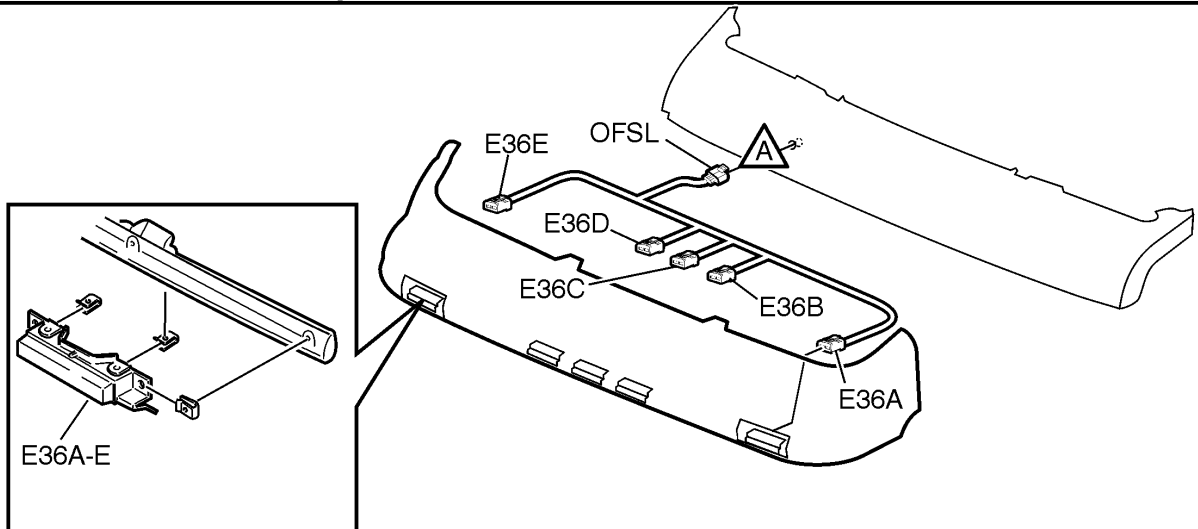
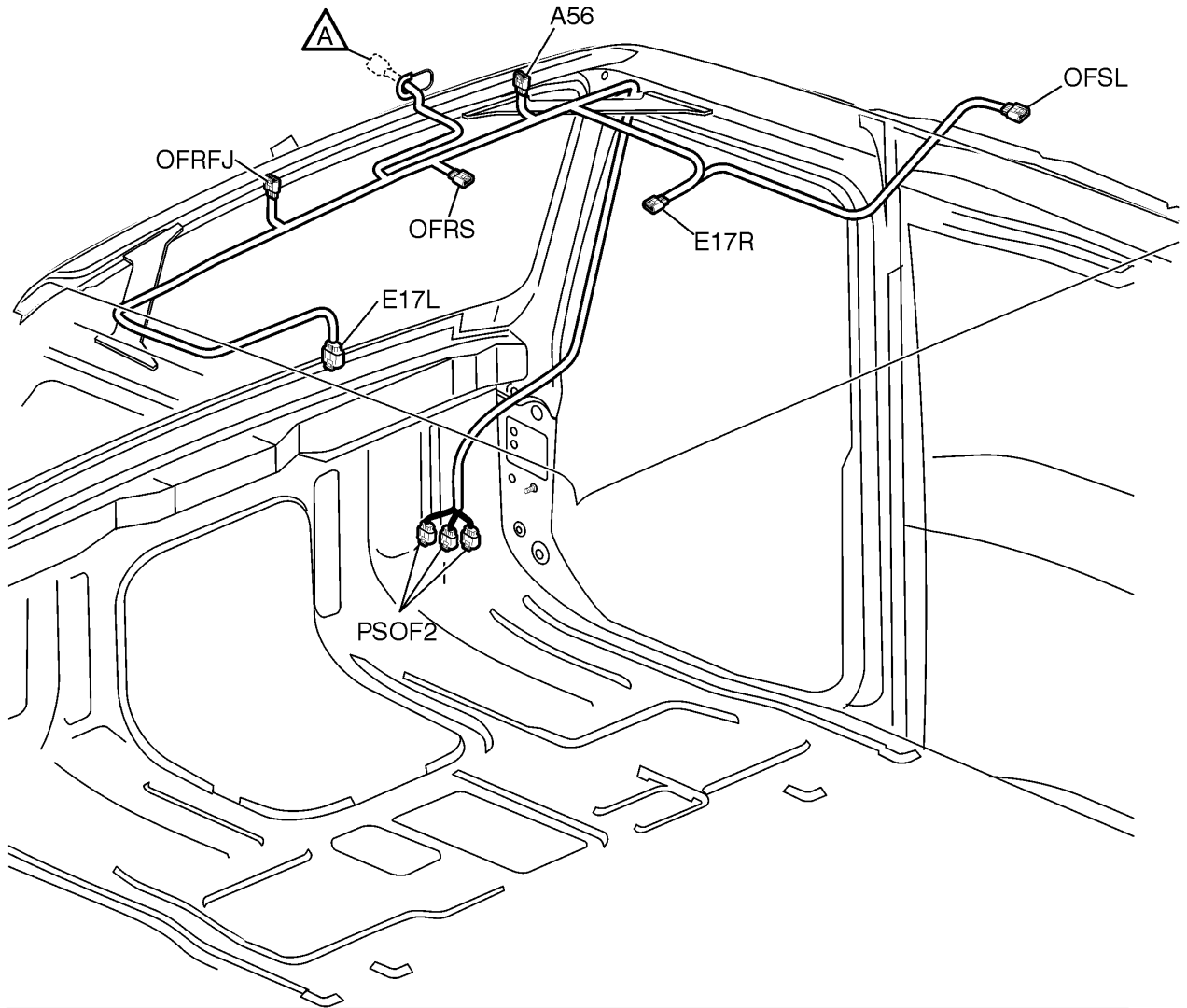
Roof Sign Harness



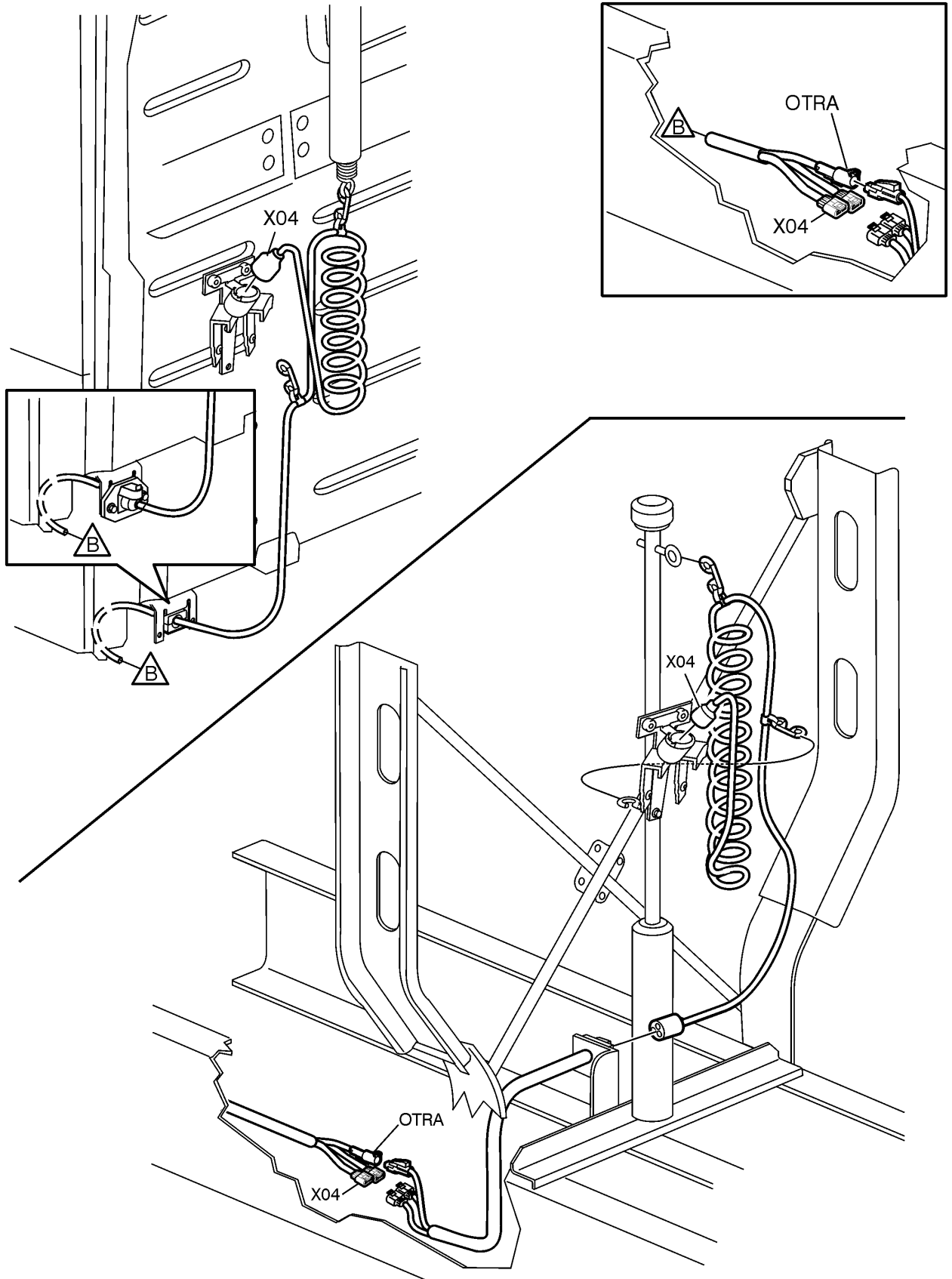
Overhead Marker Lights



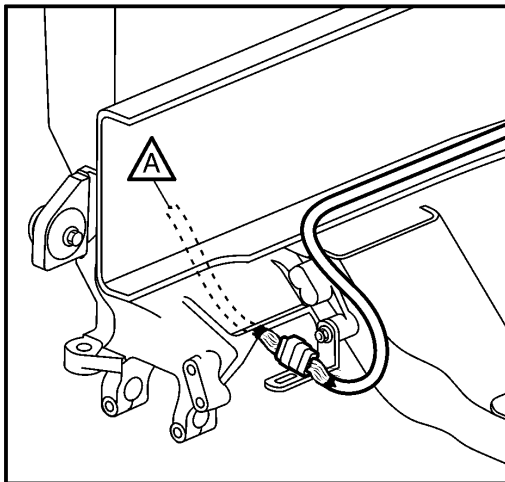
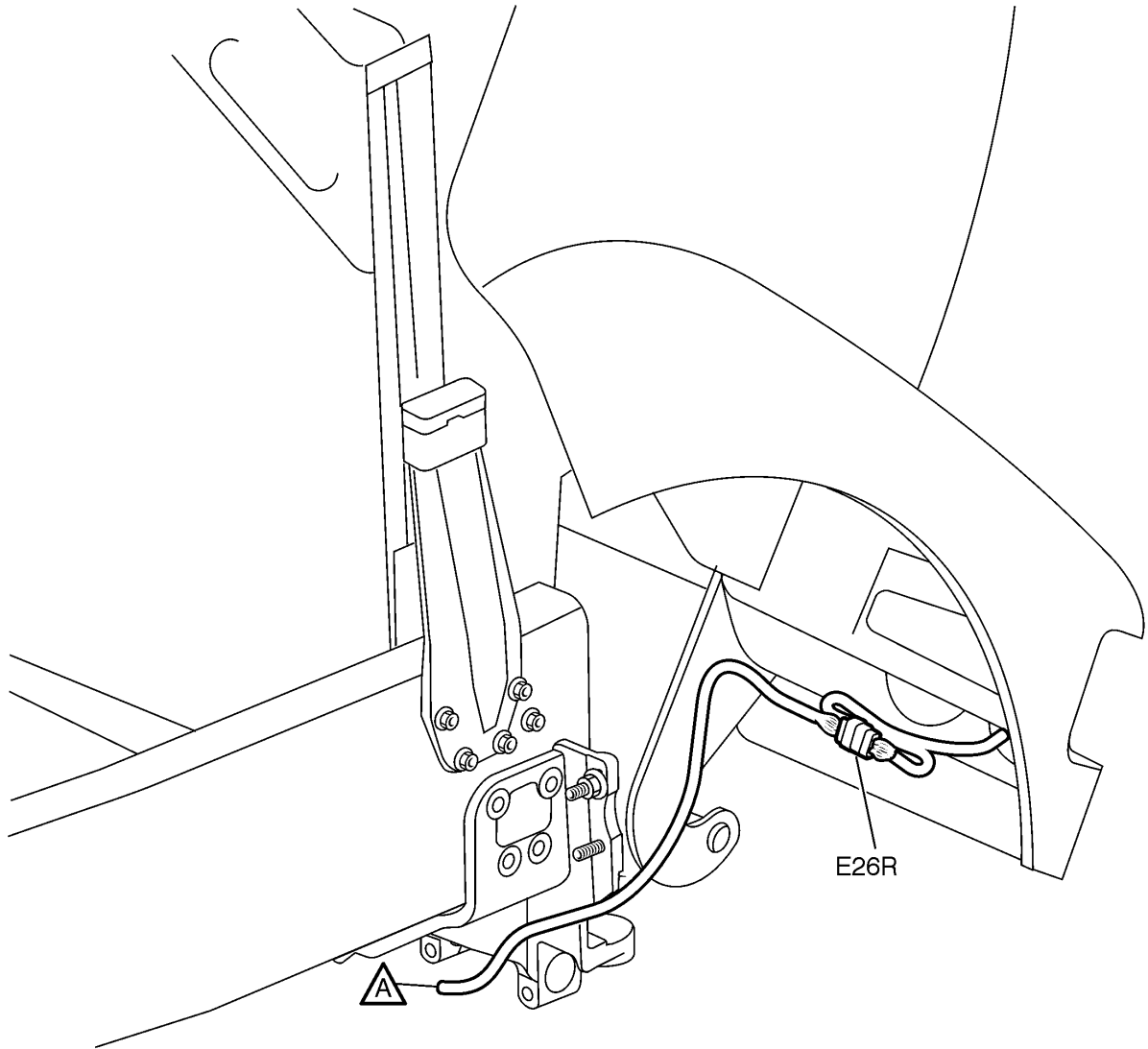
Sunvisor Harness (VN670 and 780)



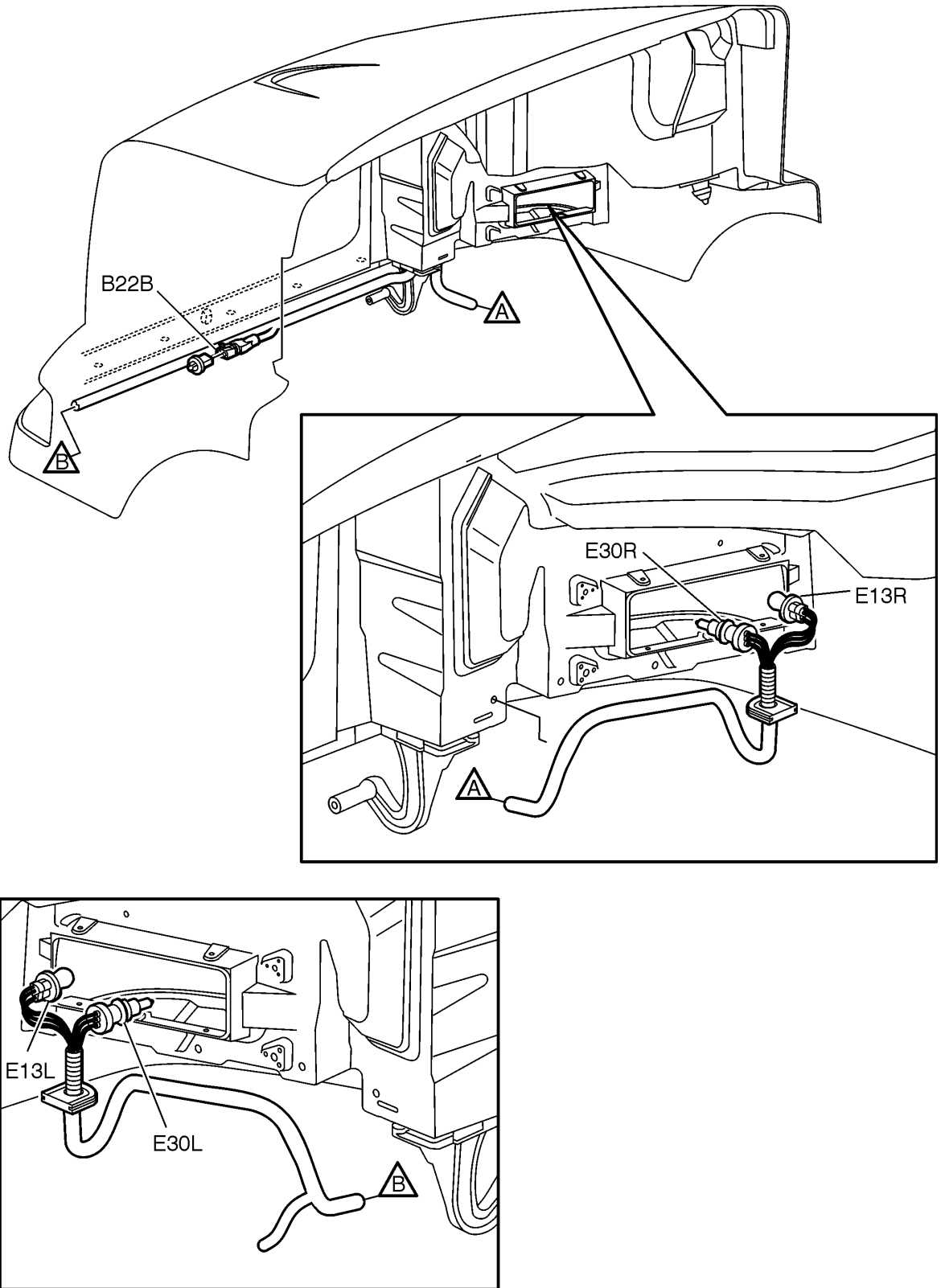
Trailer Cable Connections



Headlight Harness, VHD

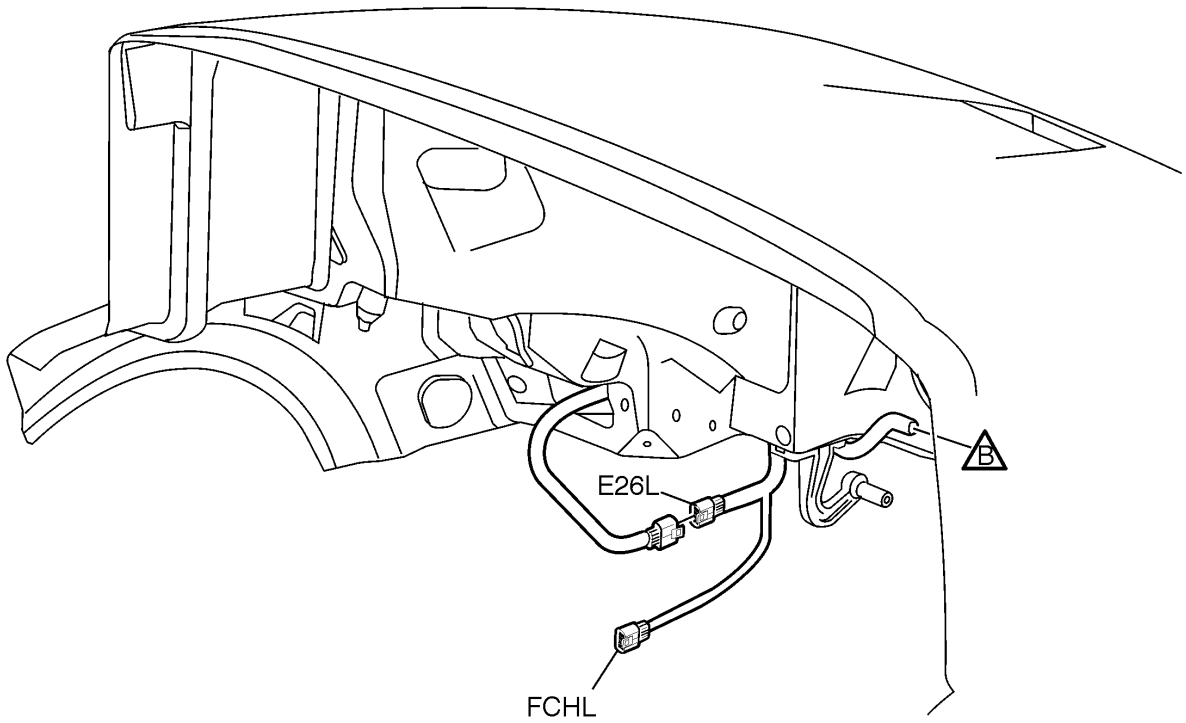
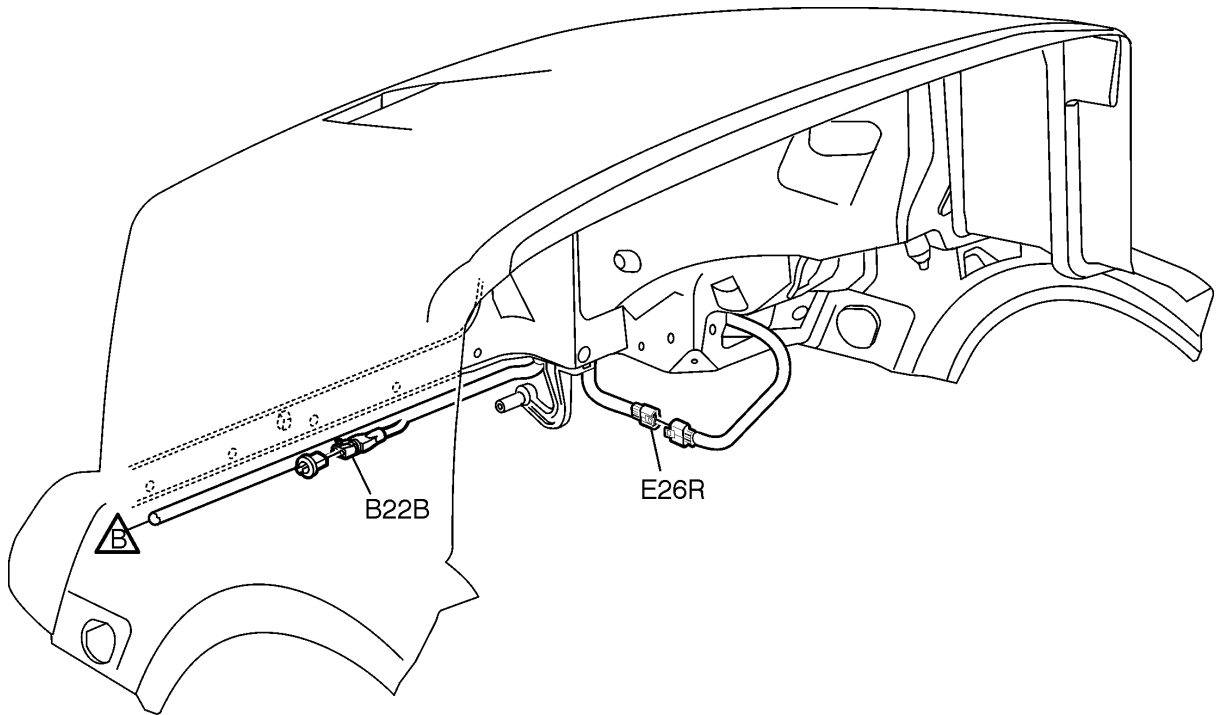


Headlight Harness, VNM



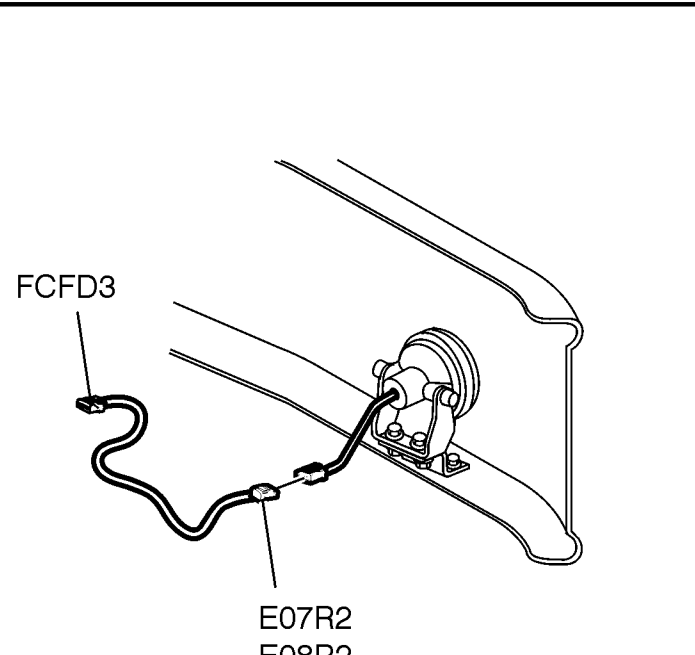
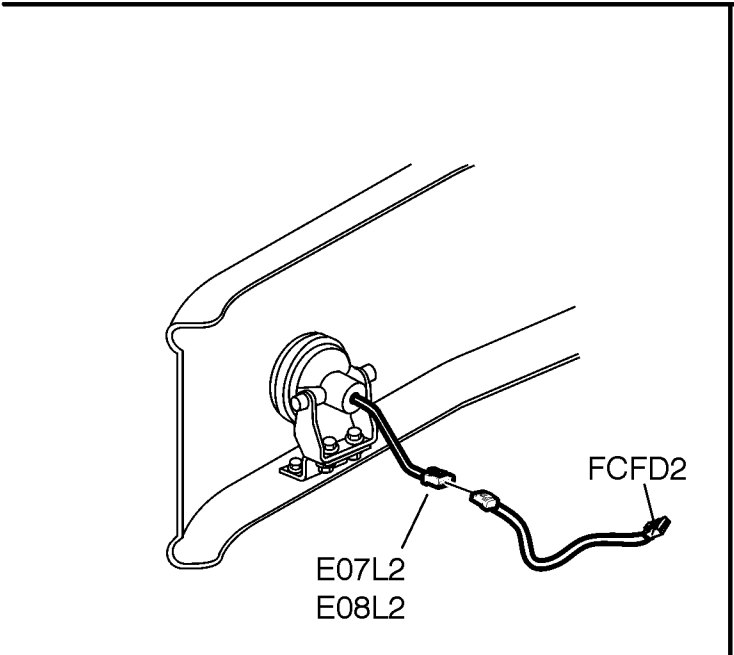
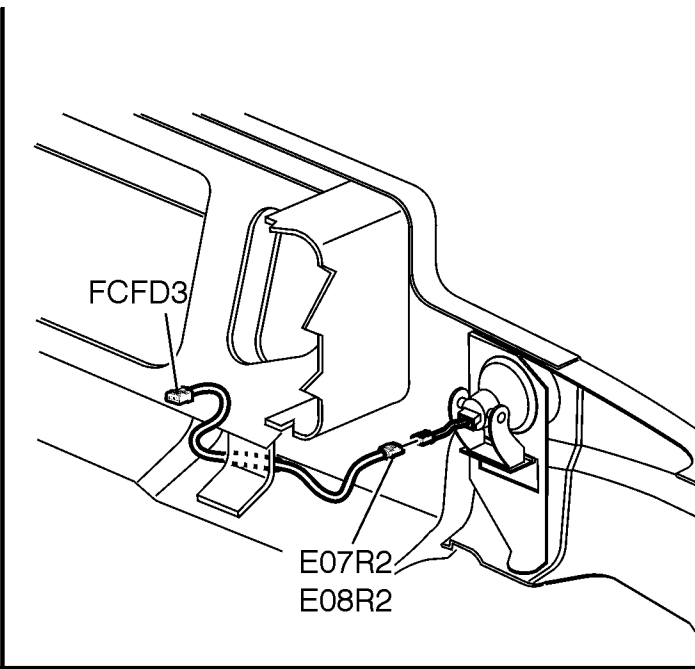
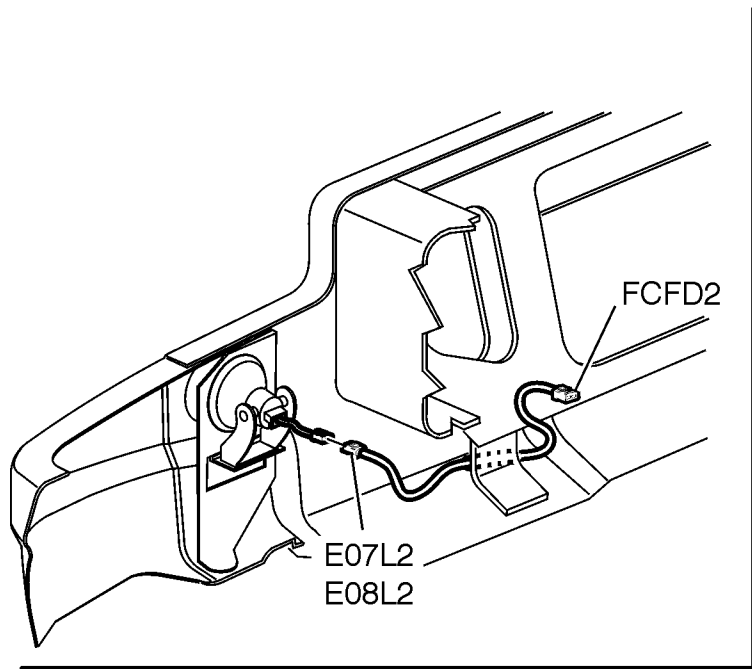
W3005901

Headlight Harness, VNL



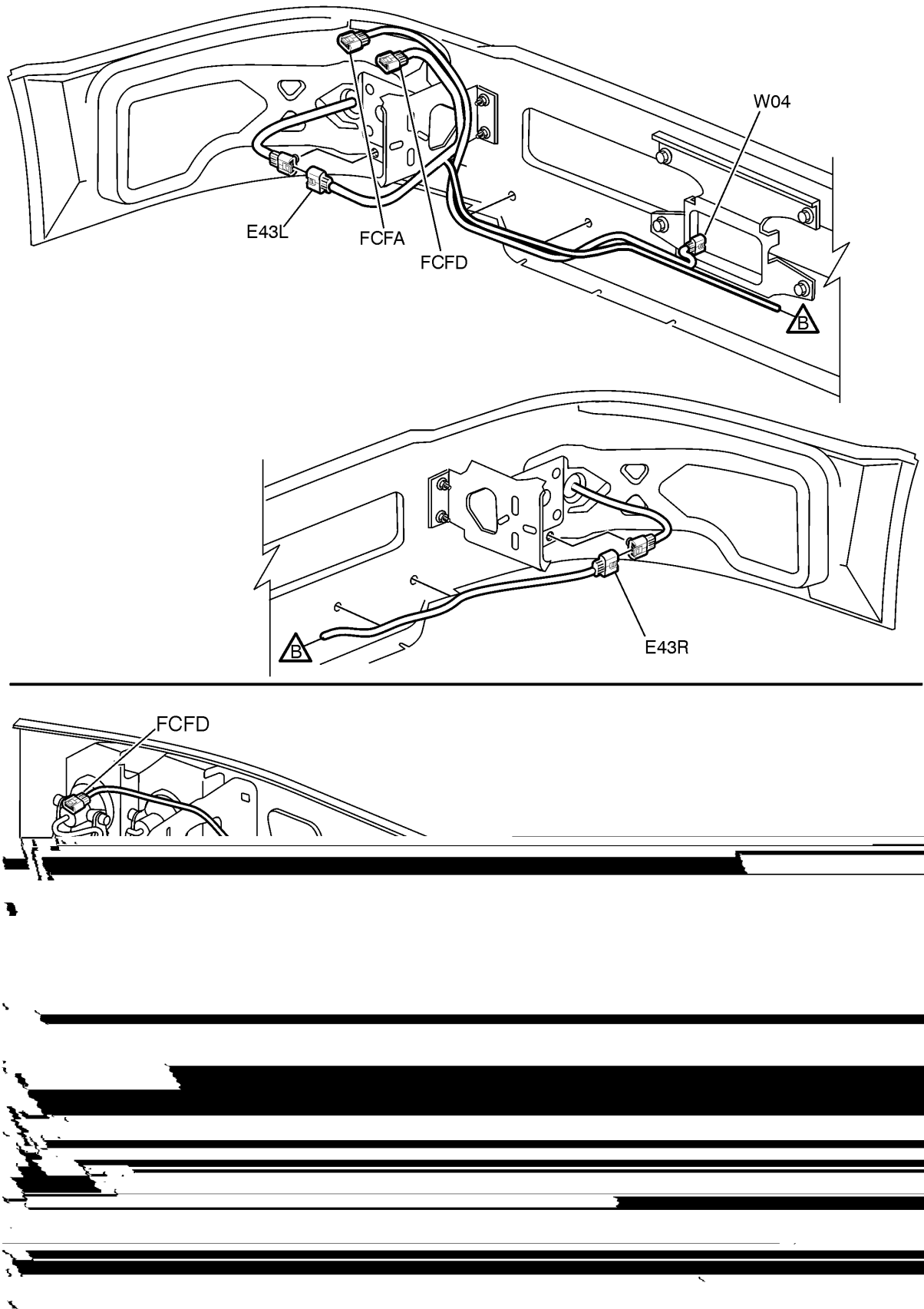
W3005898

Fog and Driving Lights, VHD



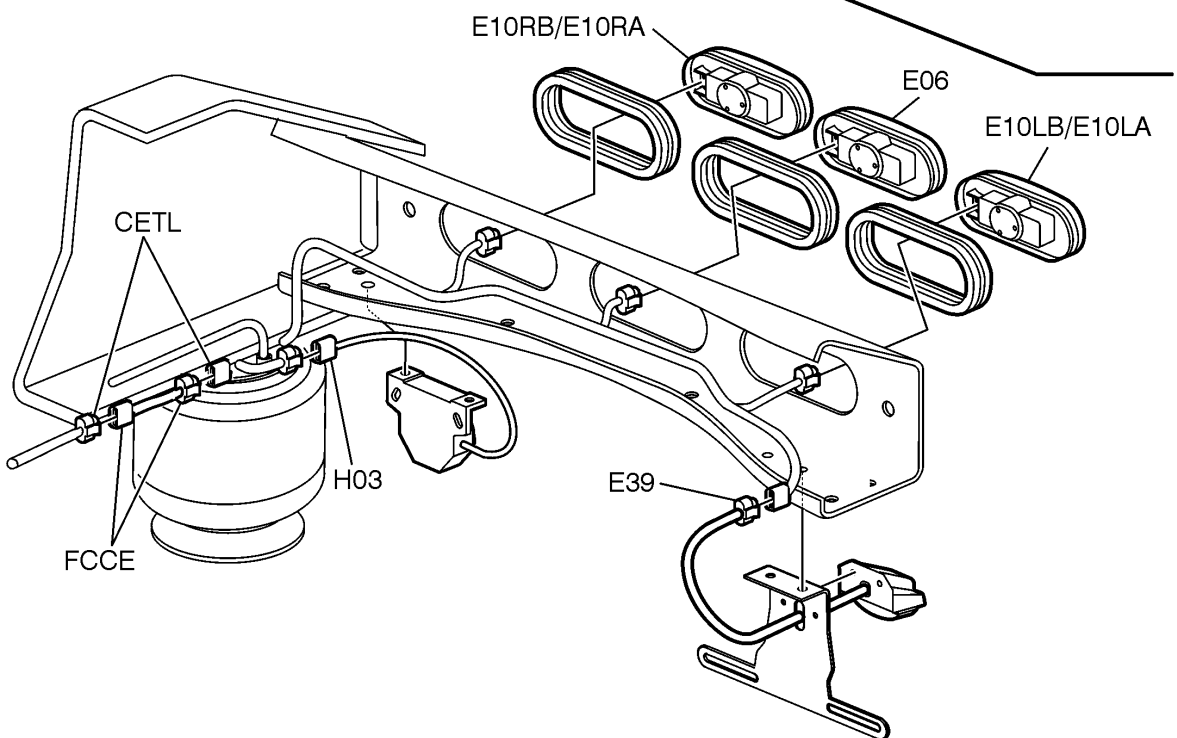
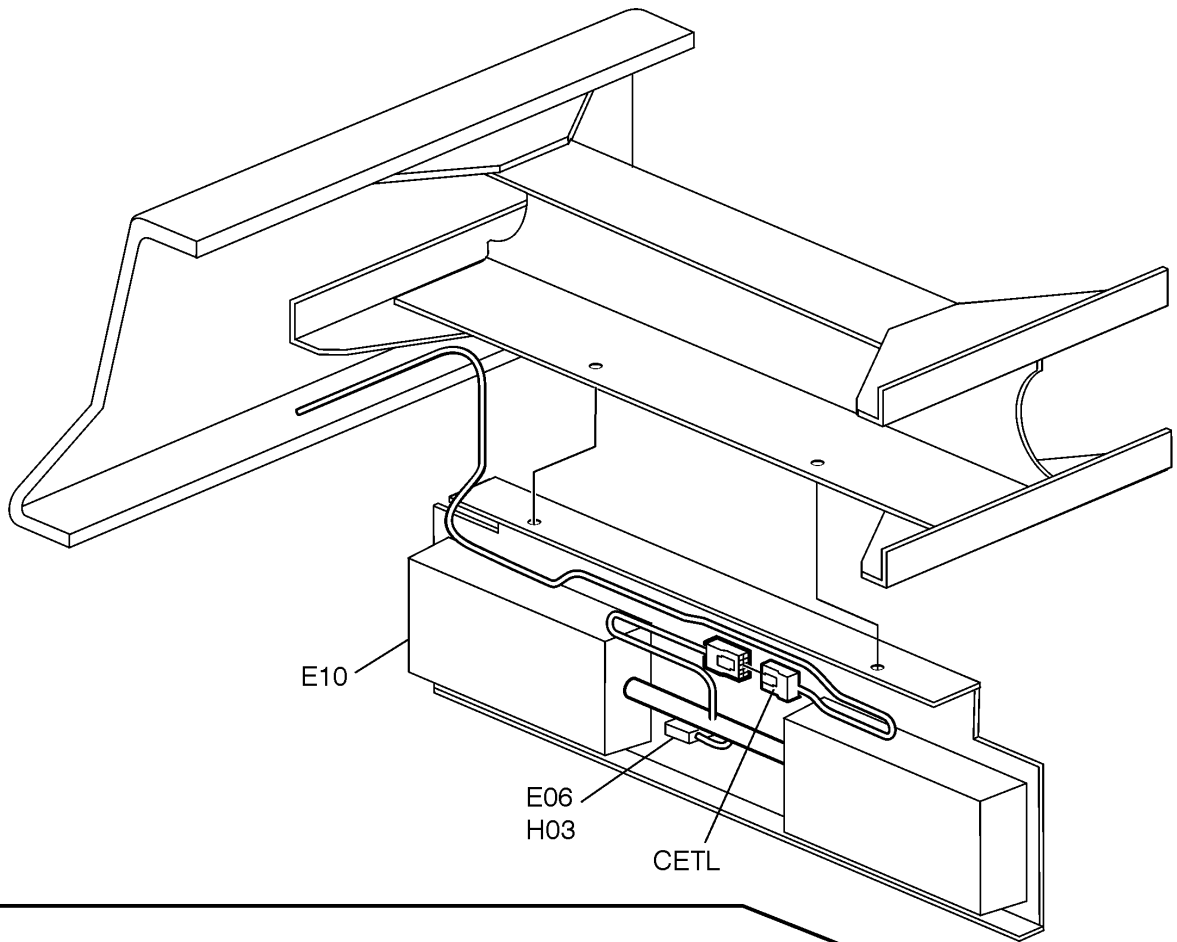
W3005952

Fog and Driving Lights, VNL and VNM

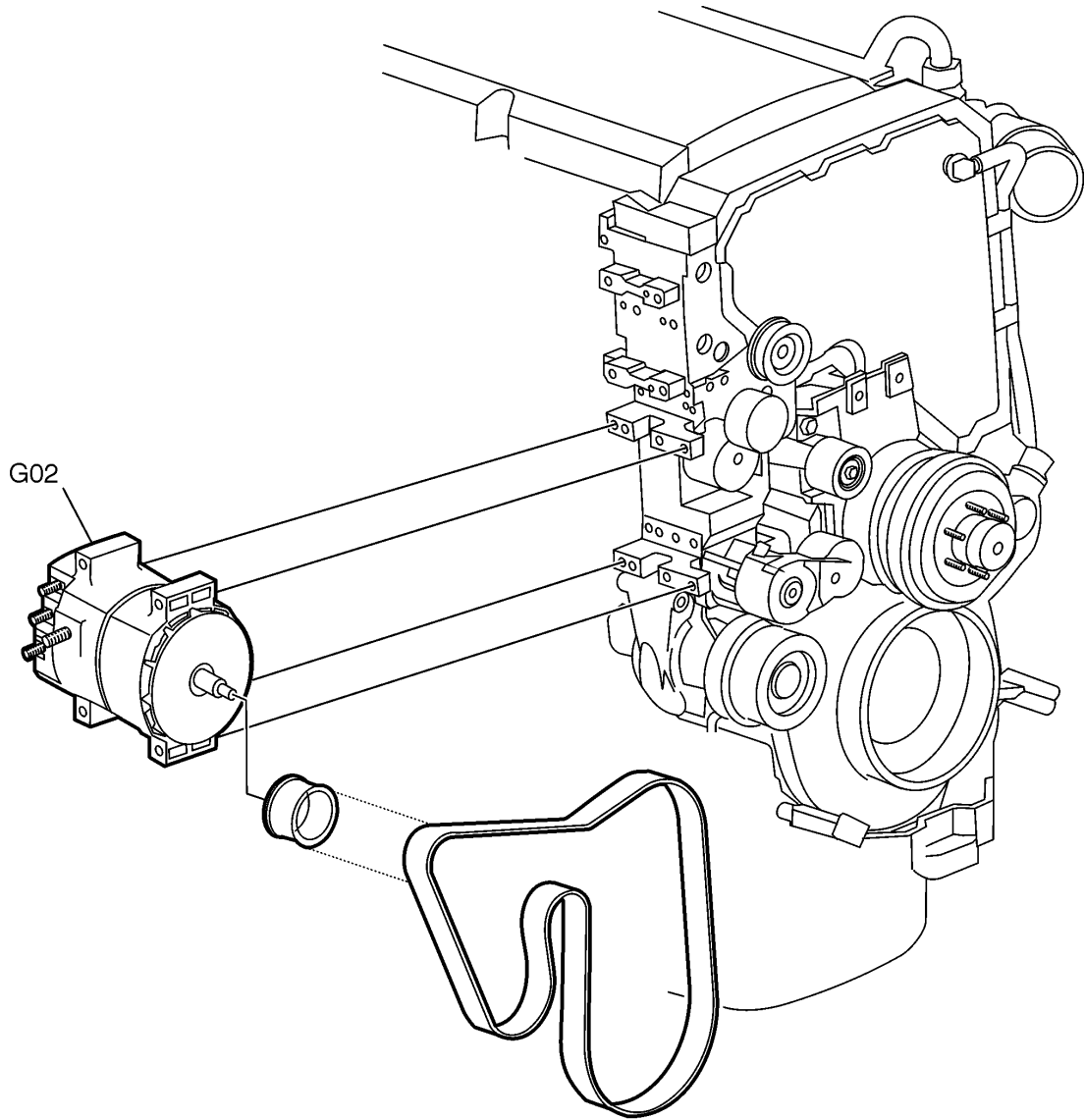


W3005933

Tail lights

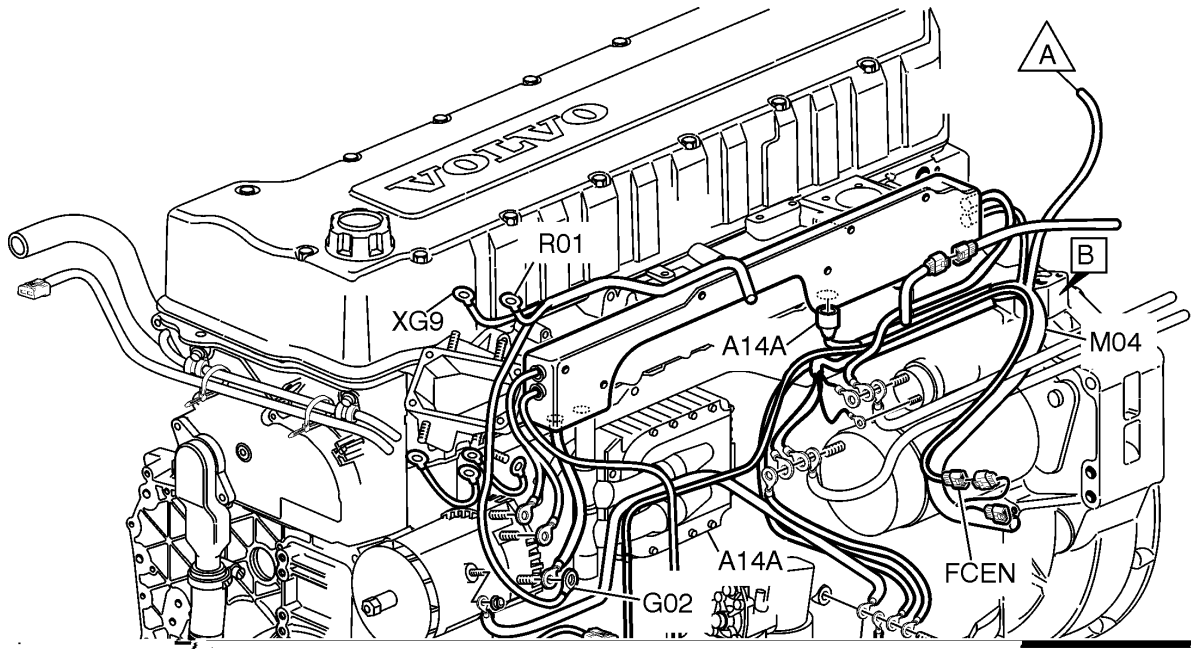


Alternator (typical view)



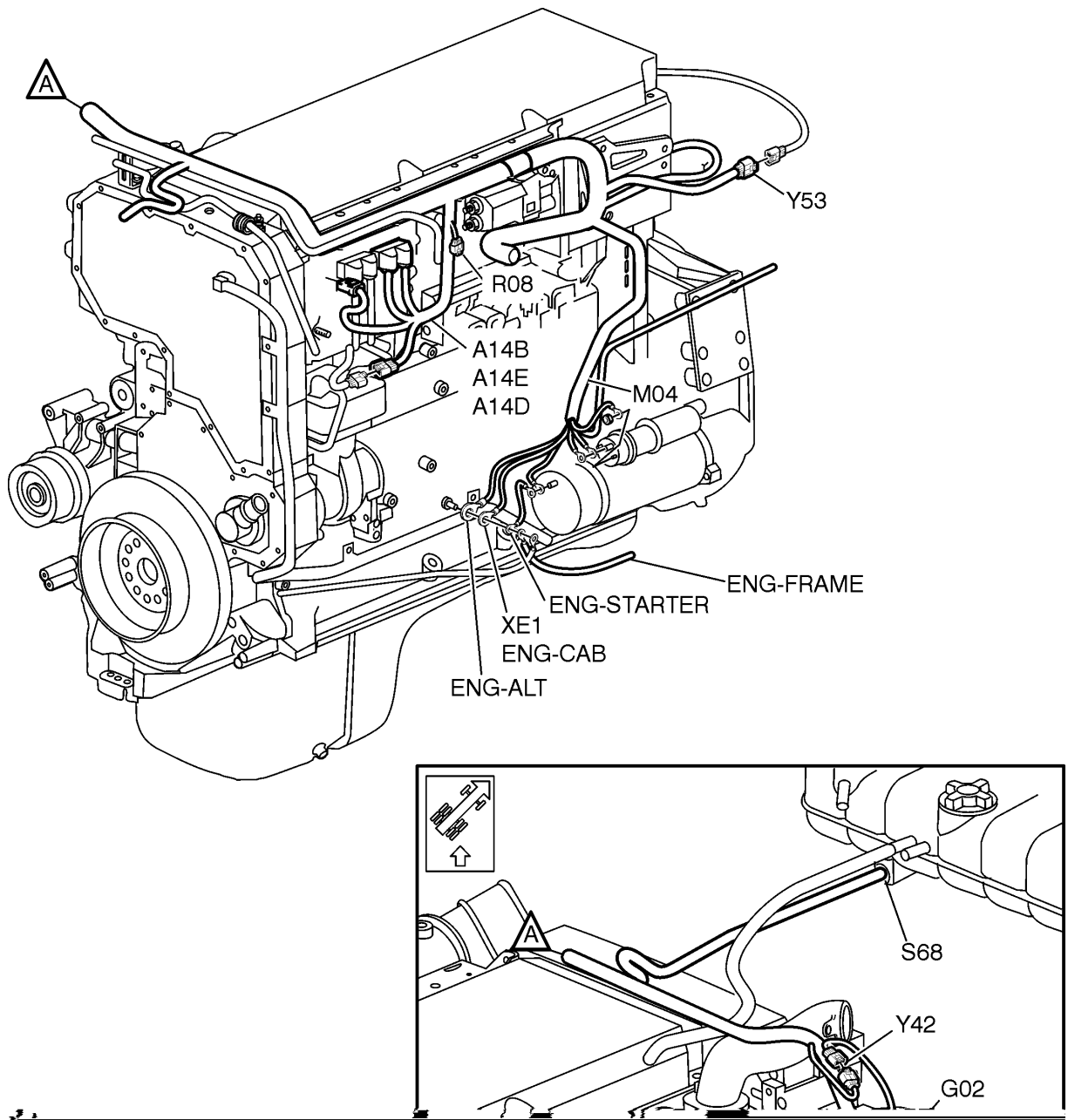
W3005908

Engine, Volvo D12D



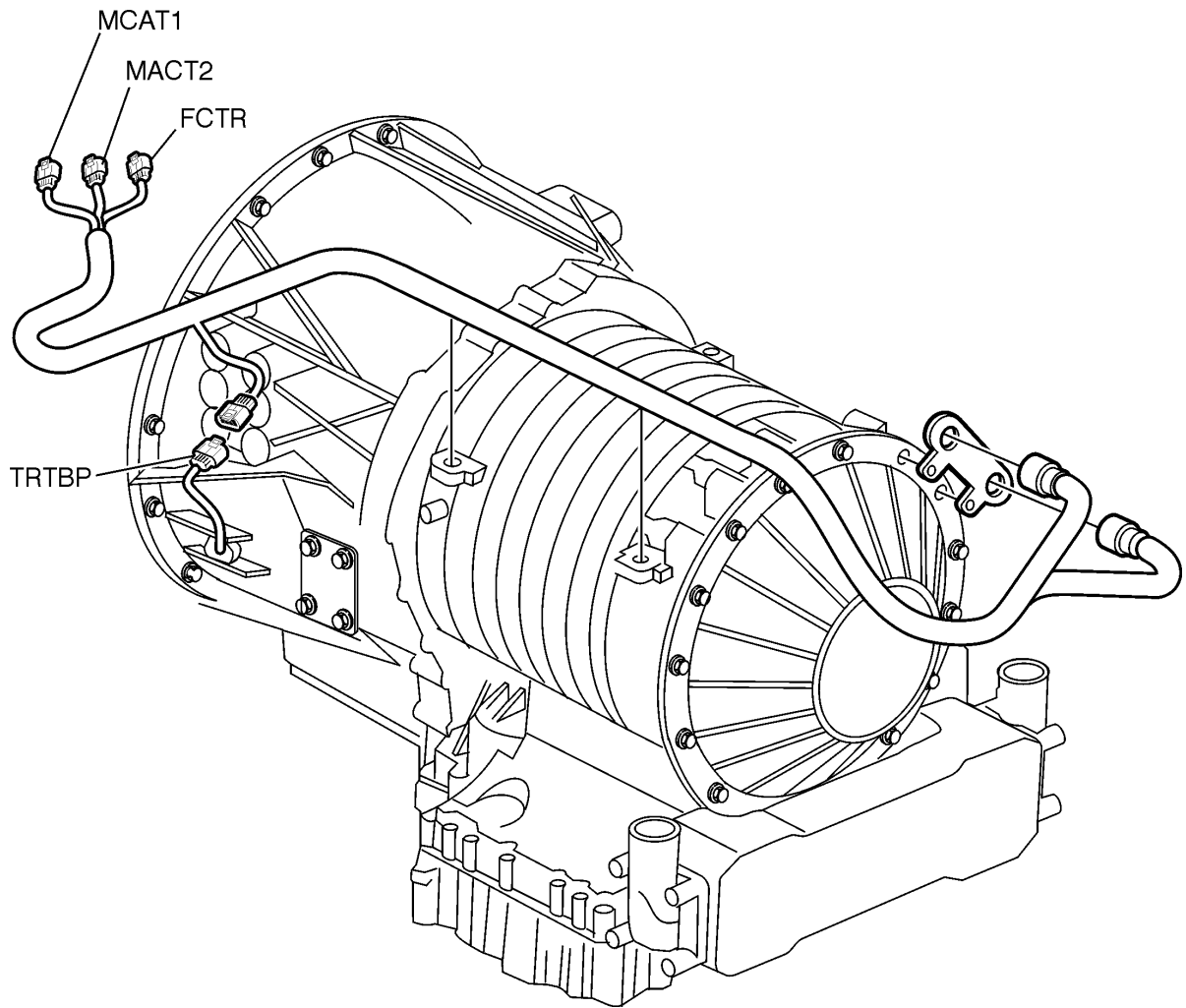
W3005907

Engine, Cummins ISX



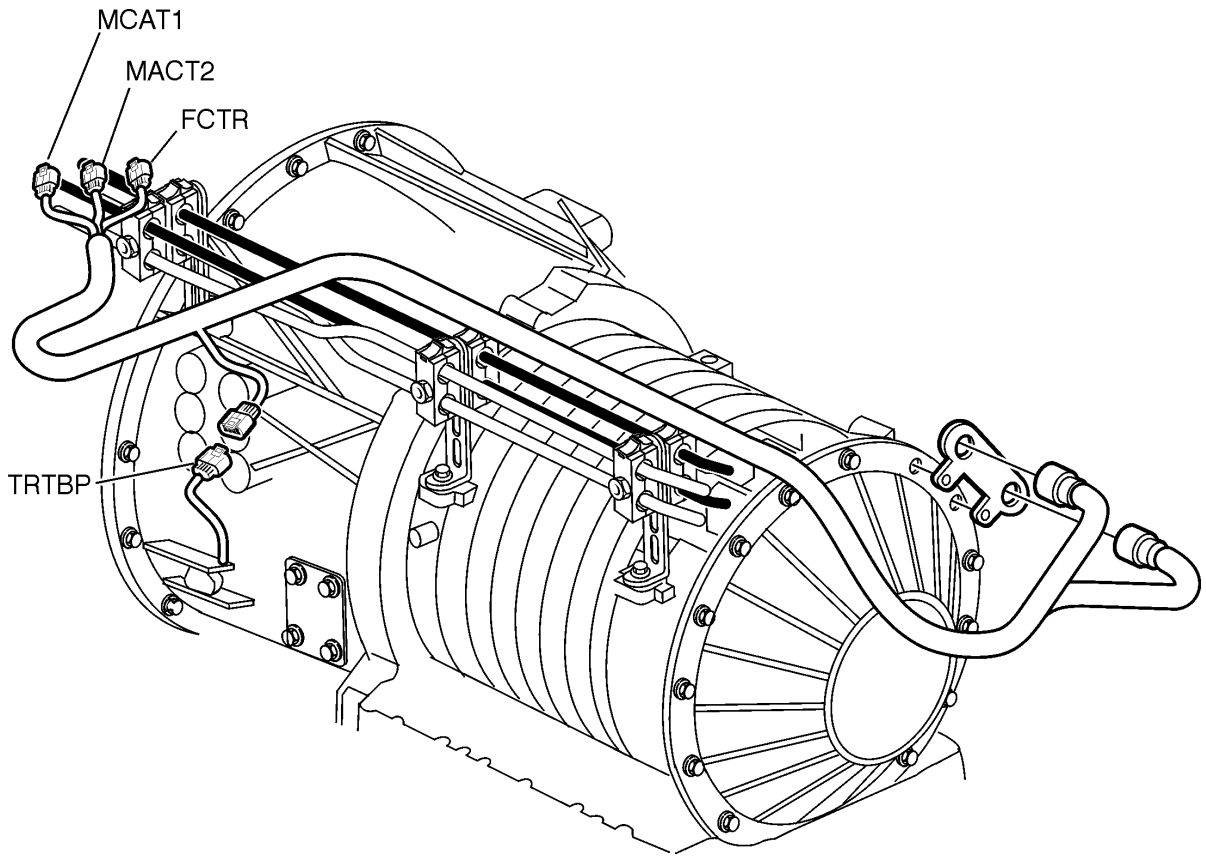
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Allison HD Transmission, VHD (BBOX-LF)



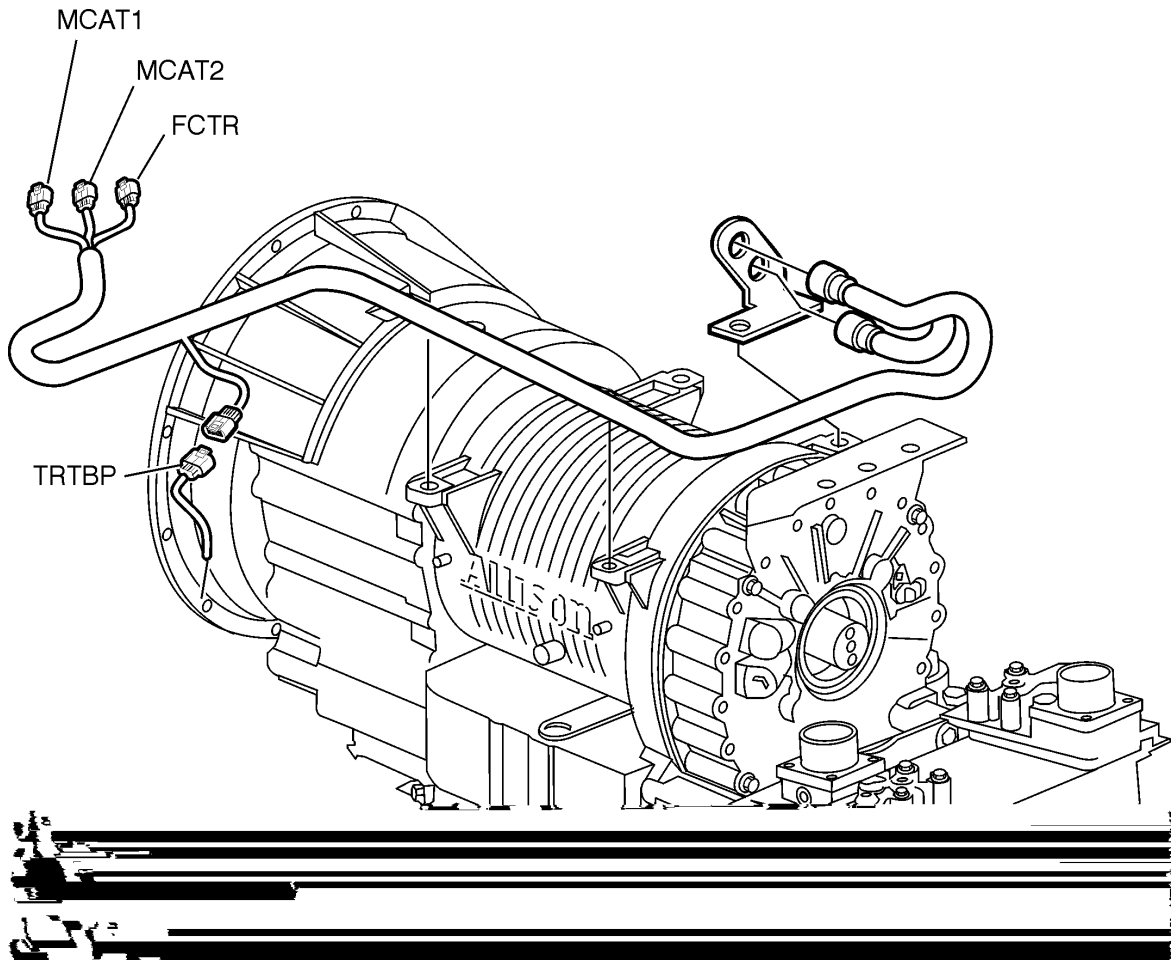
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Allison HD Transmission, VHD (BBOX-LB/BBOX-RF)



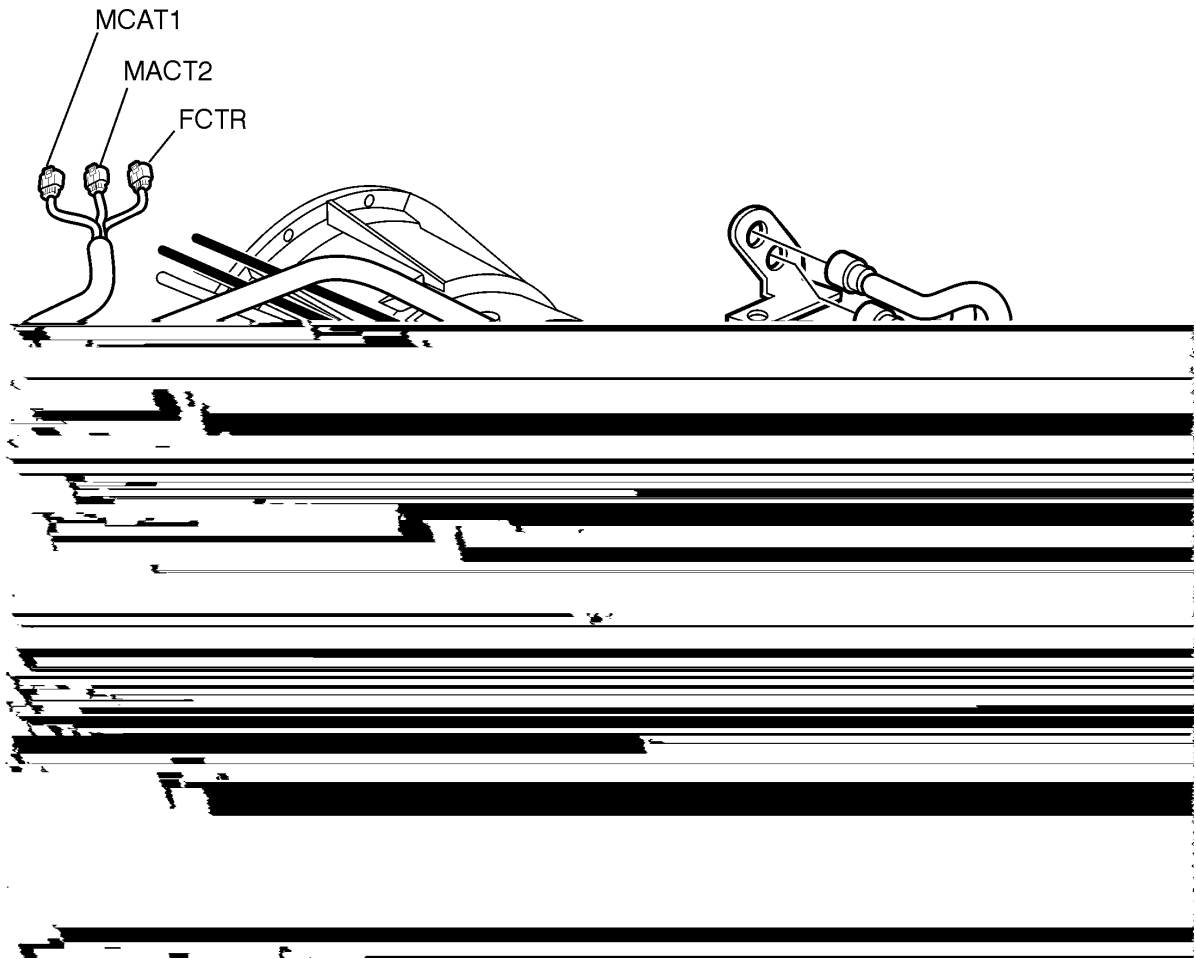
W3005912

Allison MD Transmission, VHD (BBOX-LF)



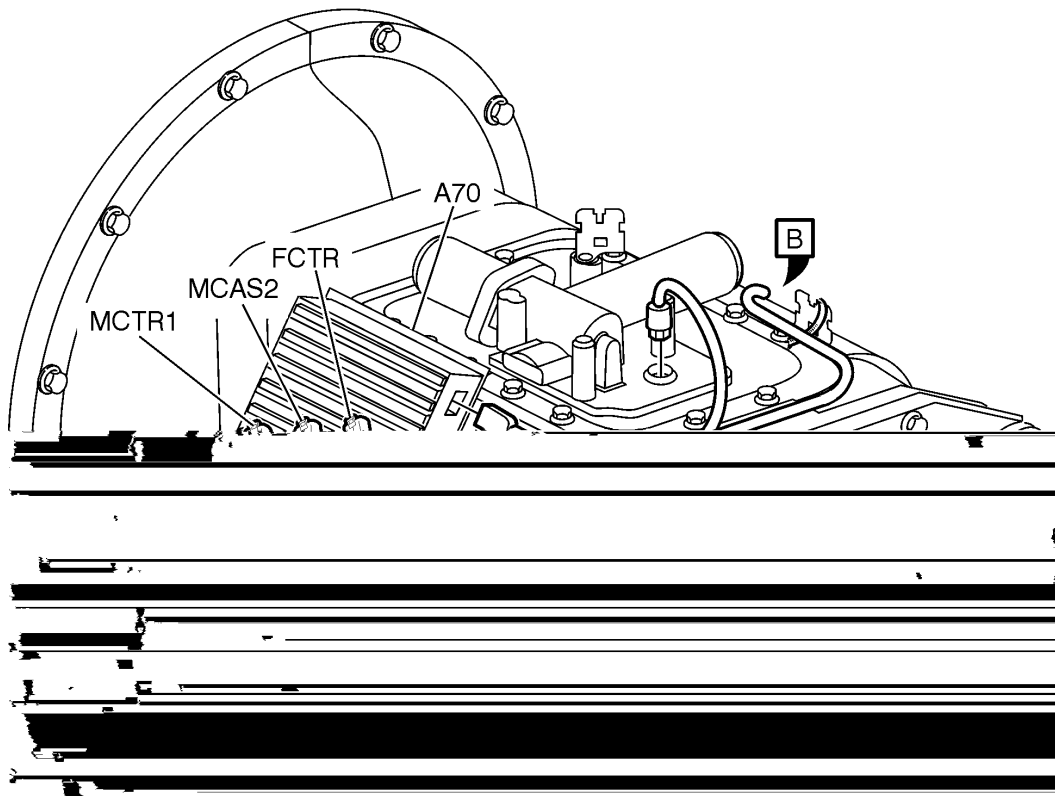
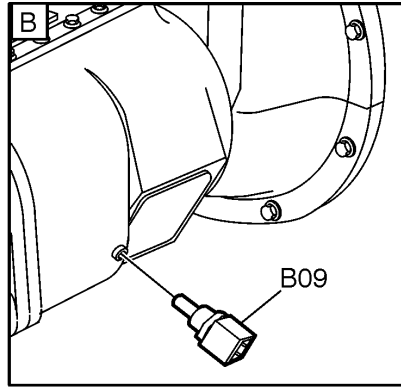
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Allison MD Transmission, VHD (BBOX-LB/BBOX-RF)



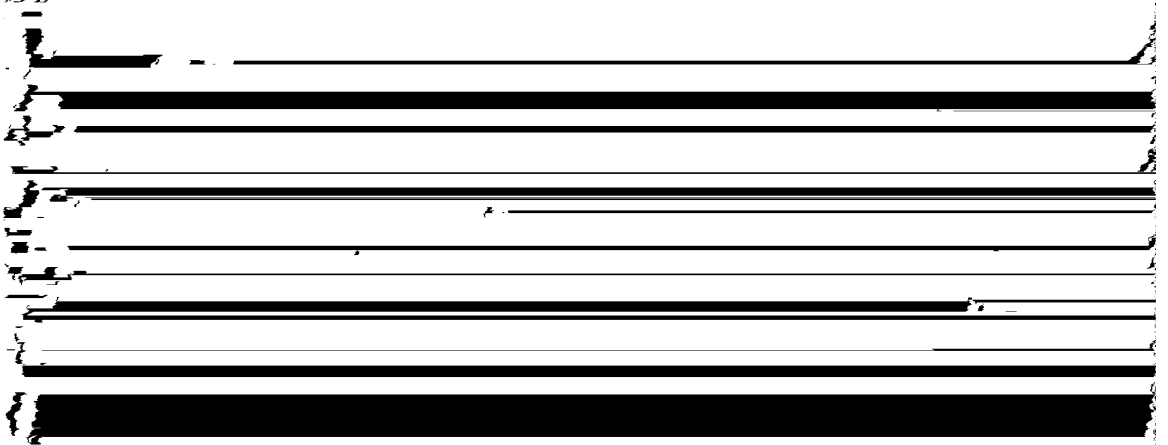
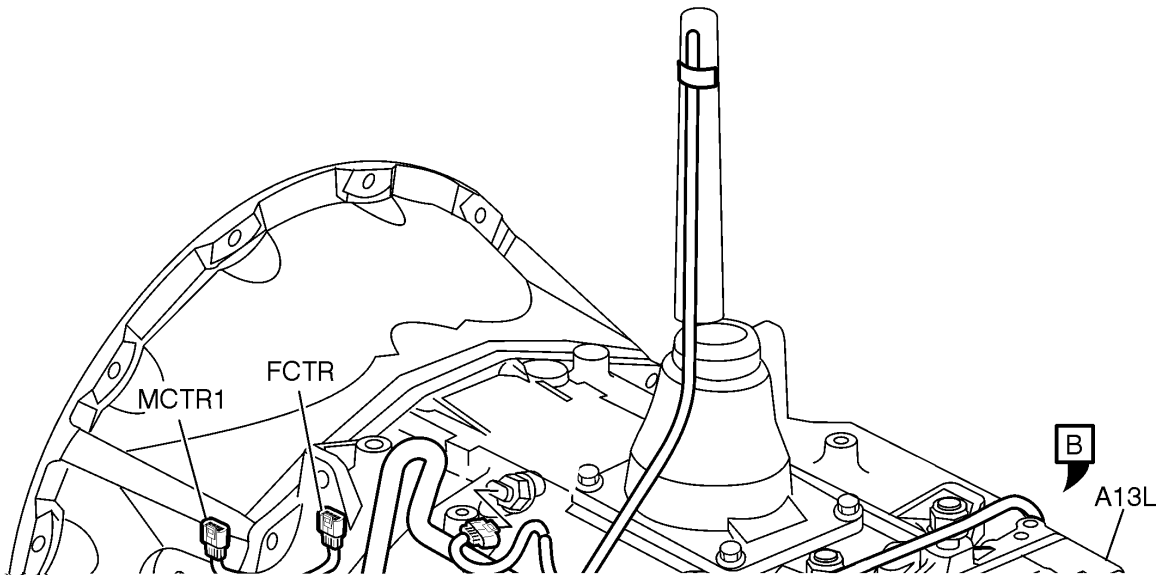
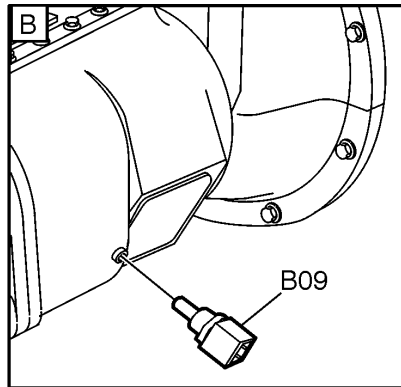
W3005913

Eaton Autoshift II Transmission



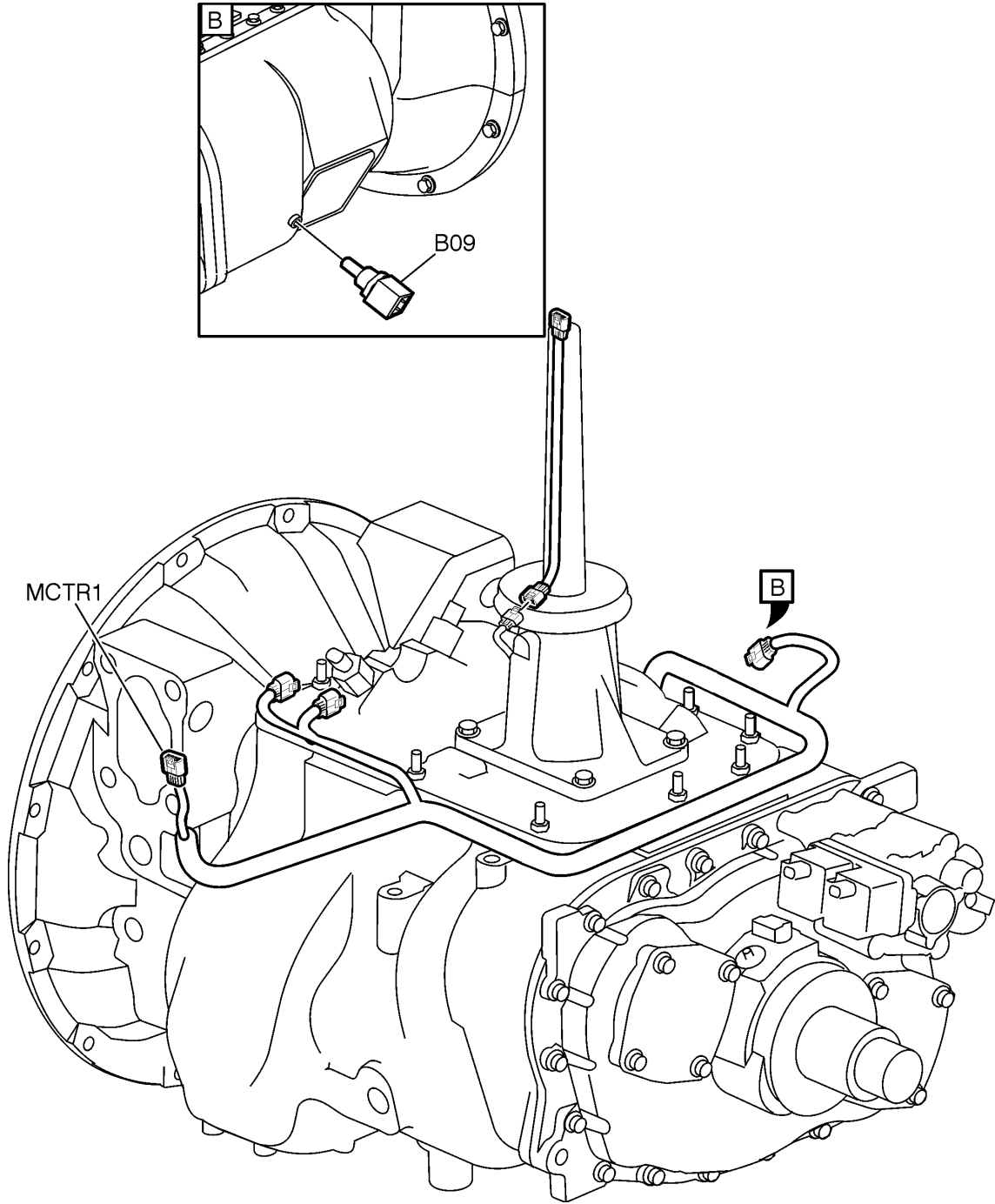
W3005890

Meritor Lightning Transmission



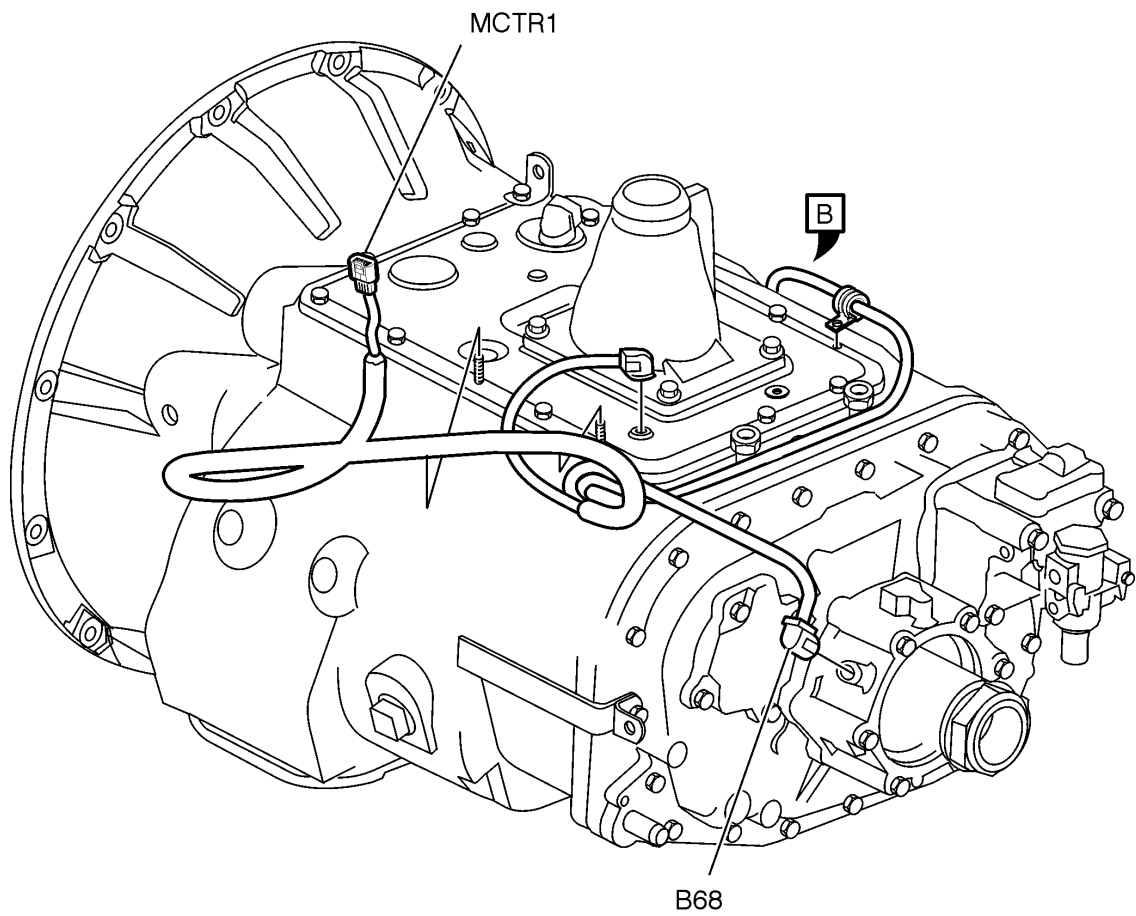
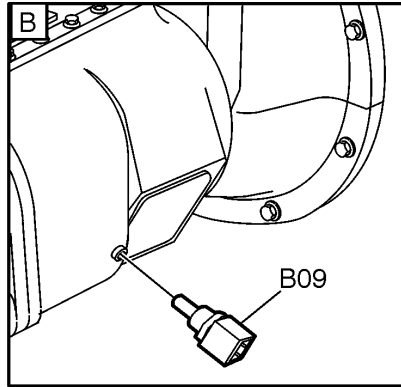
W3005891

Meritor Transmission



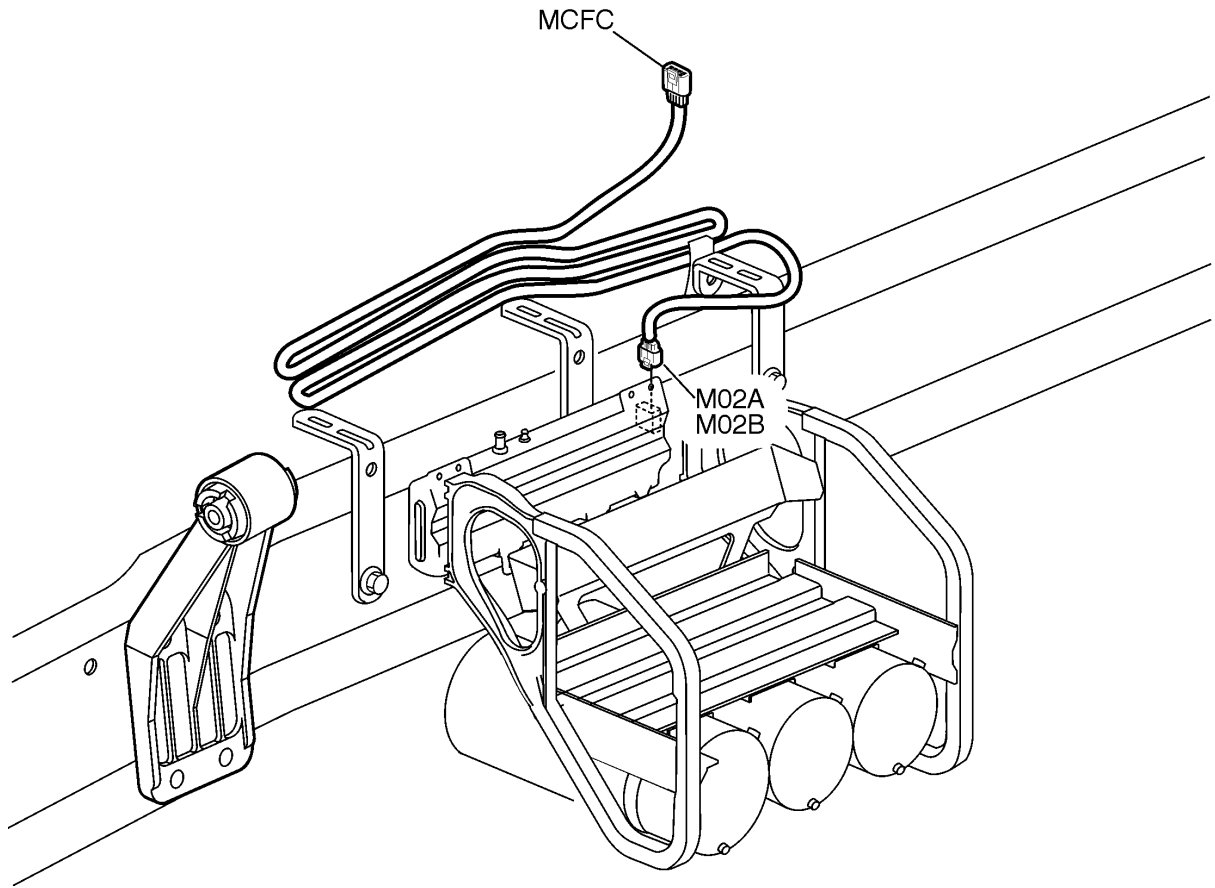
W3005892

Fuller Transmission



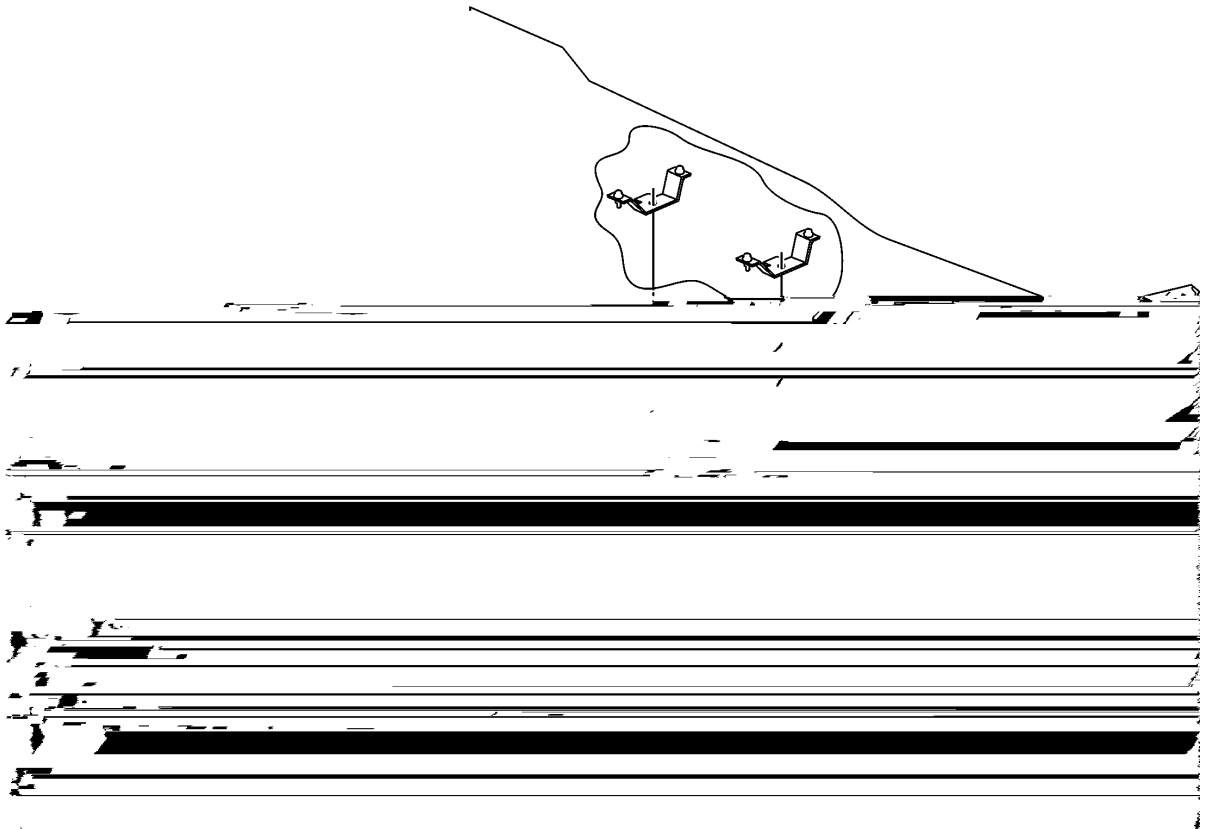
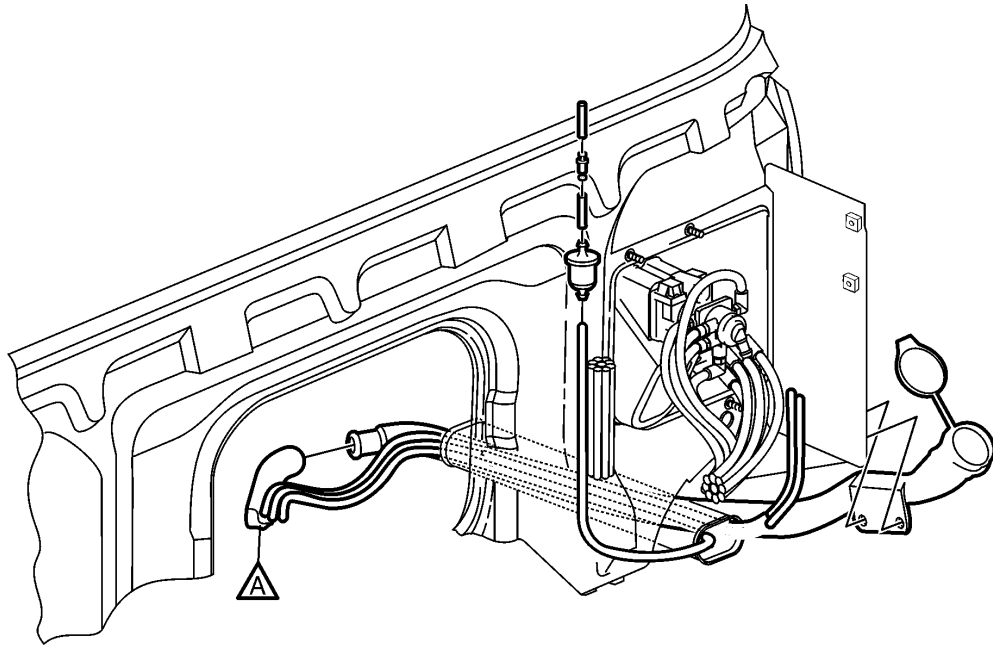
W3005893

Washer Reservoir, VN



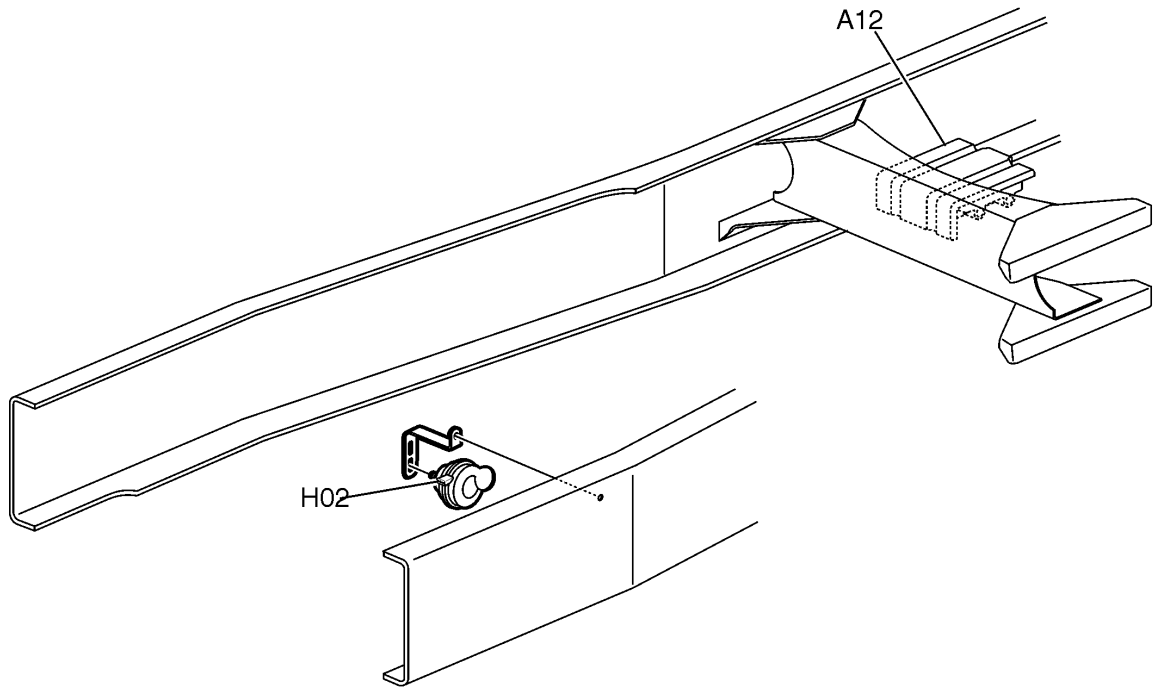
W3005935

Washer Reservoir, VHD



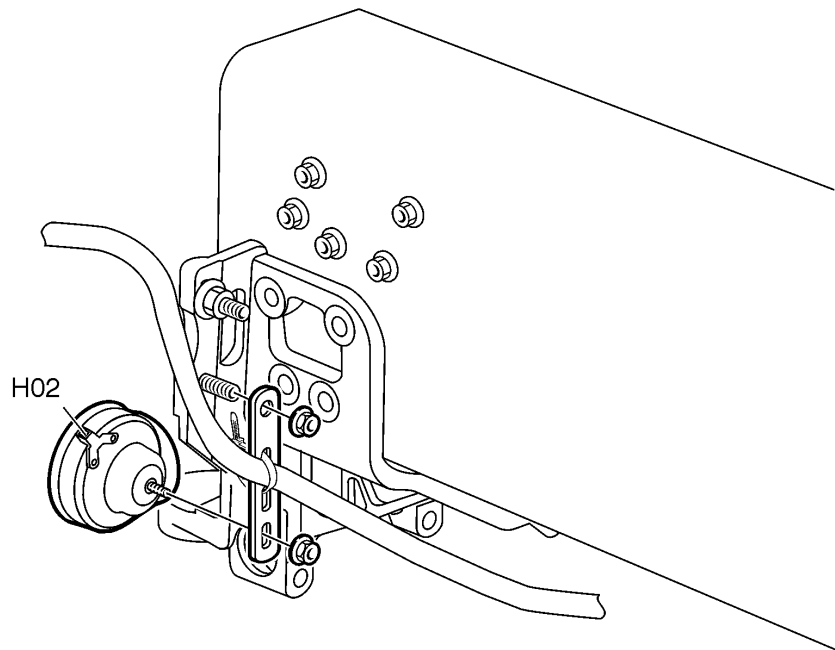
W3005910

Horn

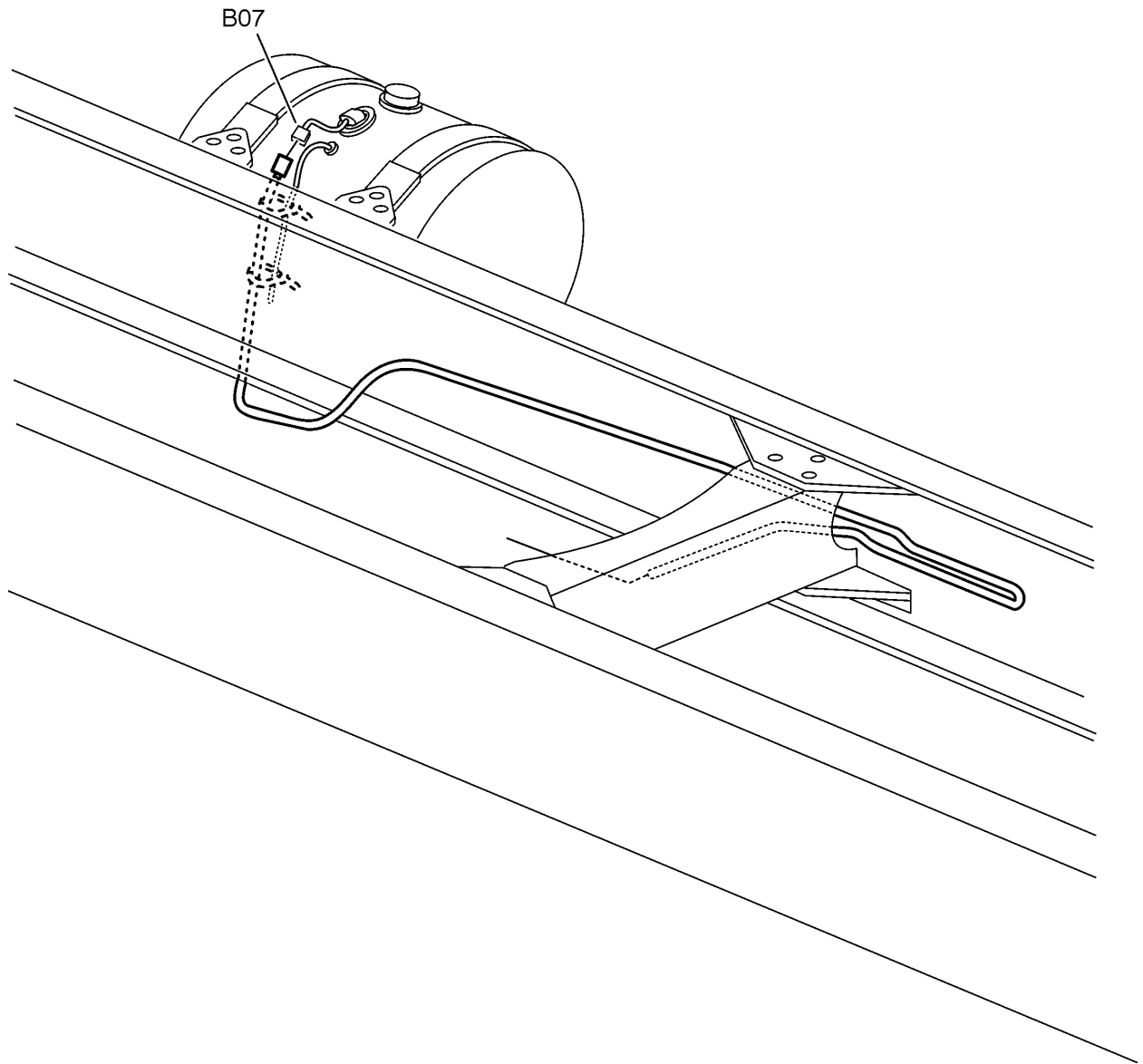
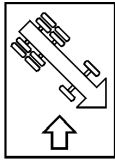


VN

VHD

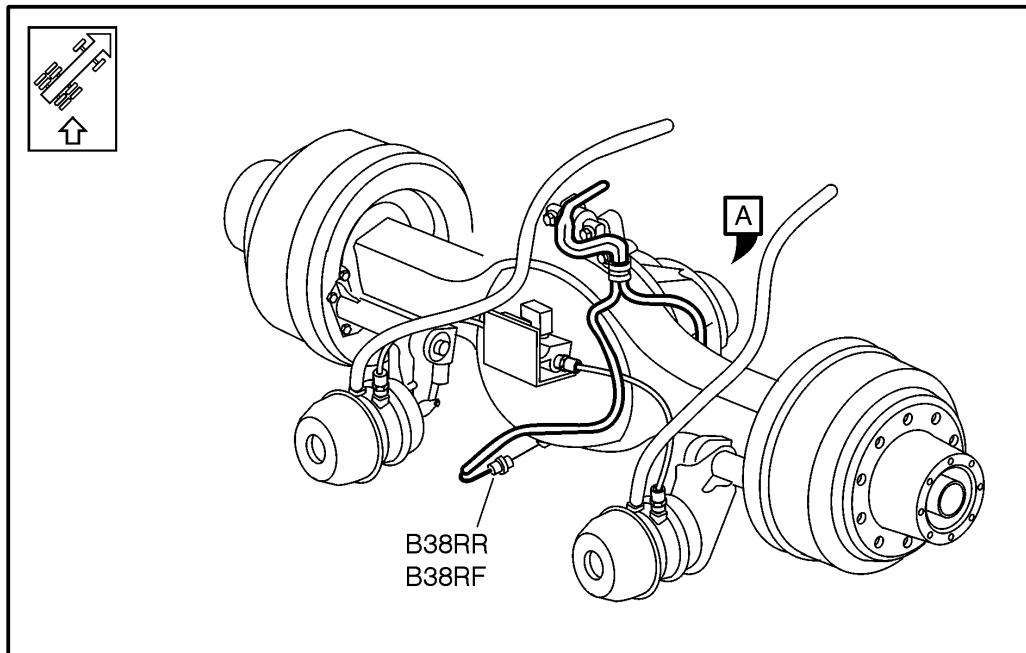
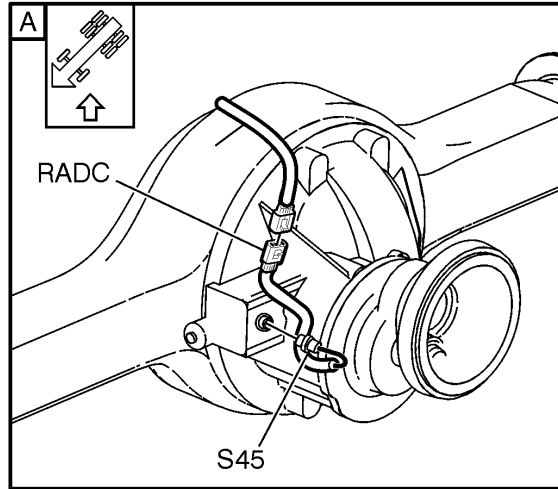


Fuel Level Sensor

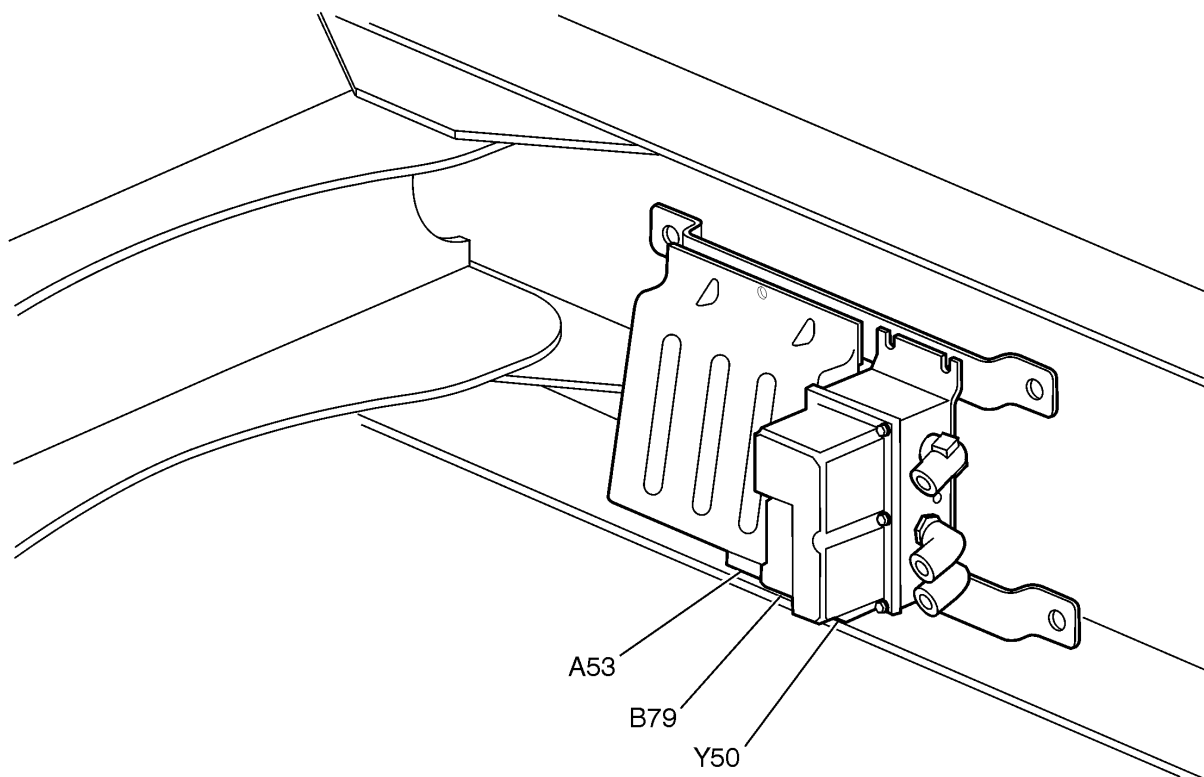


W3005909

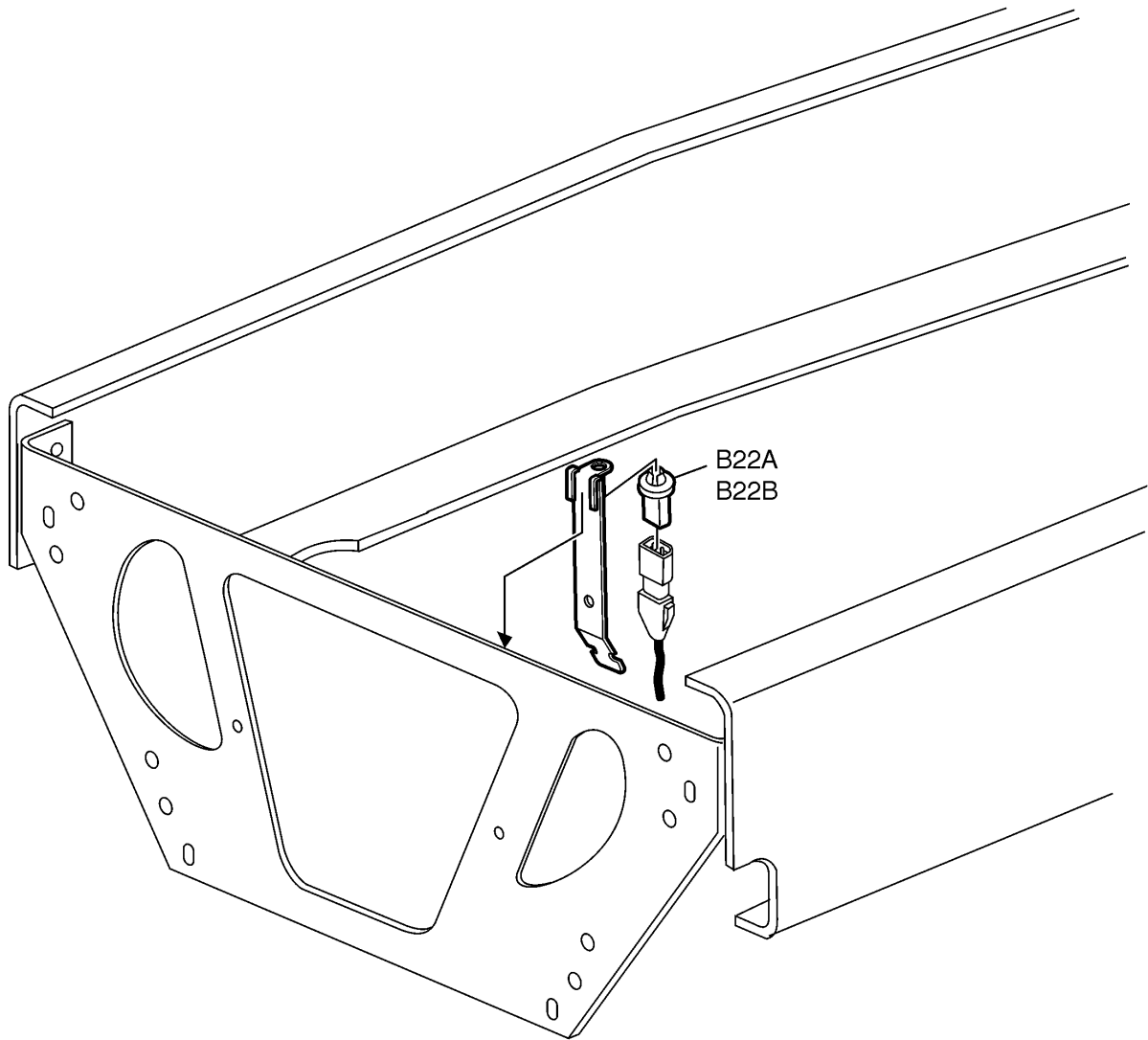
Differential Lock / Axle Temperature



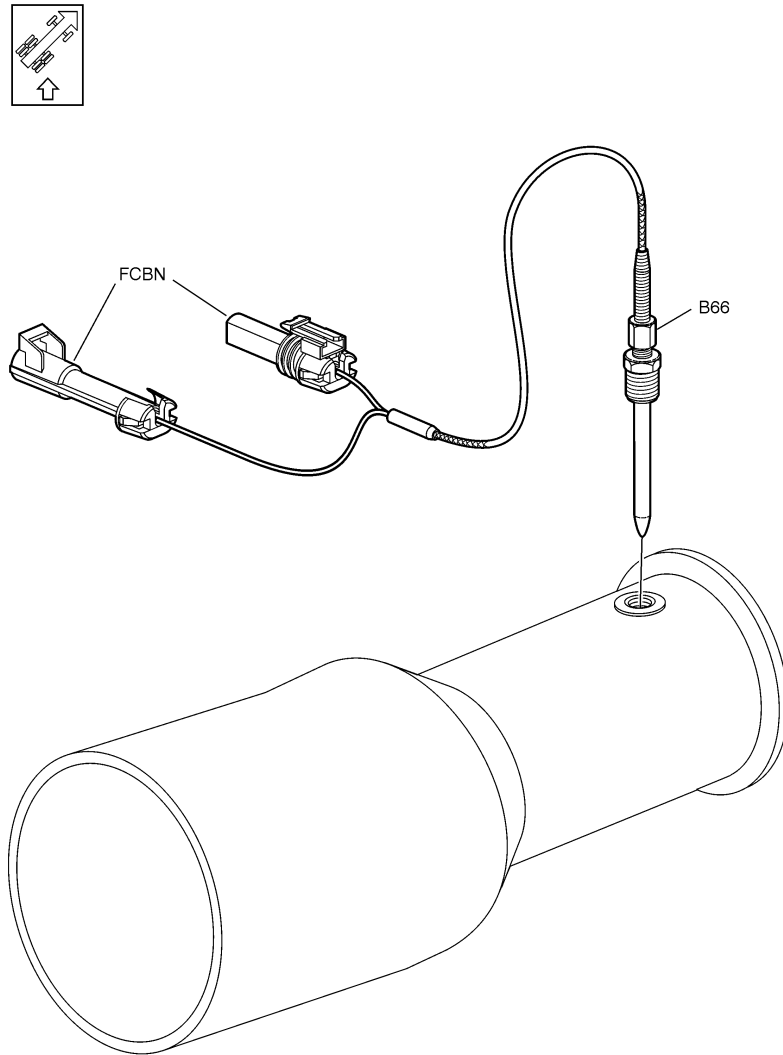
Central Tire Inflation System



Ambient Temperature Sensor



Pyrometer Sensor



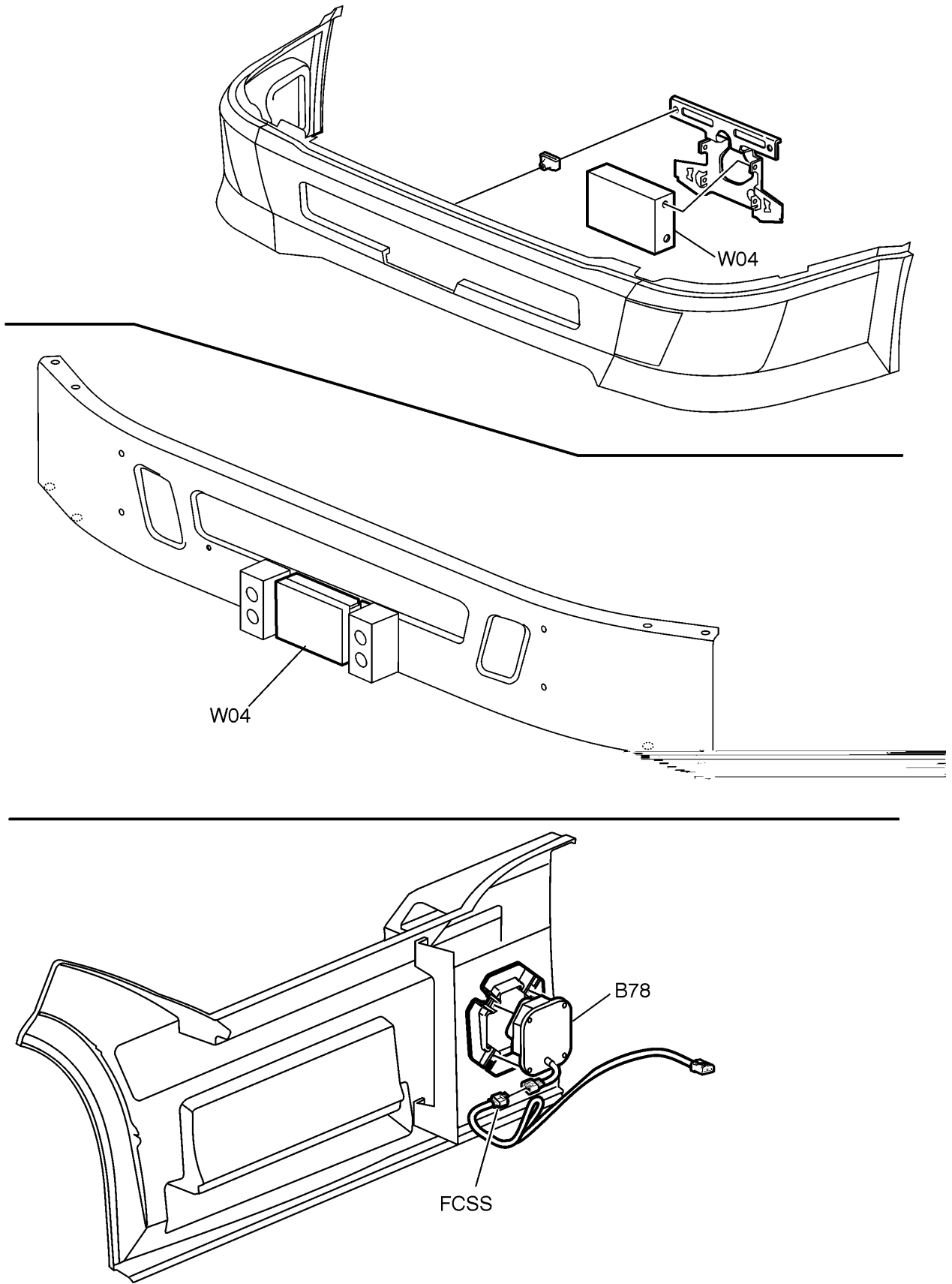
W3005932

Chassis Harness

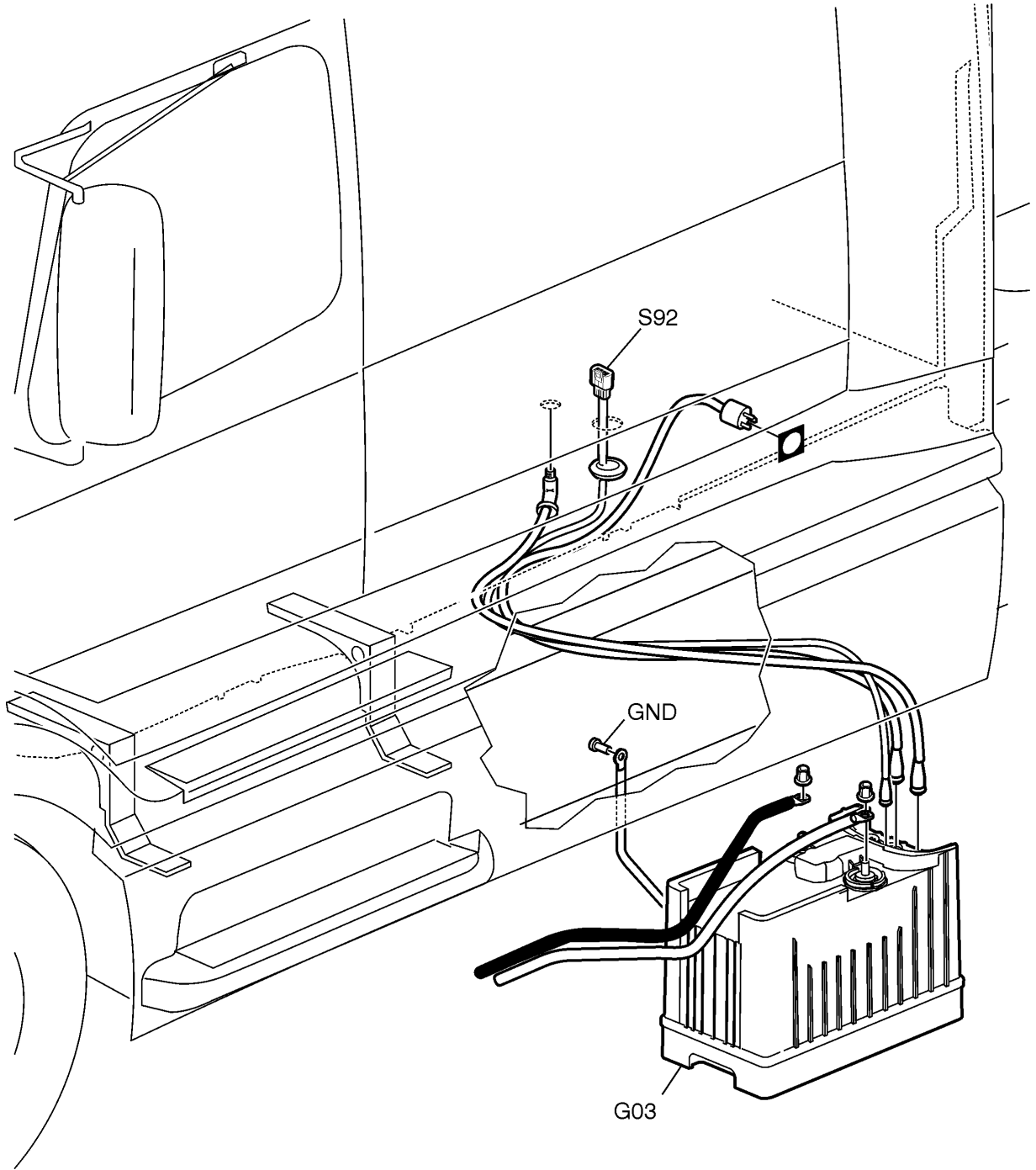


W3006051

VORAD Antennas



Inverter



W3005916

Reference

Reference List: Fuses

Fuse	Circuit	Schematic
F1	DCP power /power mirror	{IC 2 A} {AB 3 D}
F2	Radio without Cummins Icon / Amp.	{KA 0 A} {KB 2 A} {KC 0 A} {AB 3 D}
F3	Driver window/ heated mirrors	{IC 1 A} {AB 3 D}
F4	RH Window	{IC 3 A} {AB 3 D}
F5	Steering Wheel Module (SWM)	{JC 0 A} {AB 3 D}
F6	Accessory expansion	{AB 4 D}
F7	Not Used	{AB 4 D}
F8	LCM1	{GB 2 A} {AB 3 C}
F9	Trailer Marker Relay	{MA 0 A} {AB 3 C}
F10	LCM2	{GB 2 B} {AB 3 C}
F11	Battery Expansion/ Volvo Link	{BF 1 A} {AB 3 C}
F12	Battery Expansion	{AB 4 C}
F13	Diagnostic Tool	{XA 2 A} {AB 4 C}
F14	-	
F15	Key B+	{AB 1 B}
F16	Key B+	{AB 2 B}
F17	LCM3	{GB 3 A} {AB 2 B}
F18	Trailer park relay	{GB 1 A} {AB 2 B}
F19	Lightning transmission (battery)	{DC 0 A} {AB 2 B}
F20	Battery protection / Beacon lamps	{HB 1 A} {GI 3 A} {AB 2 B}
F21	Cummins engine DR	{CC 1 B} {CI 3 B}
F22	Fuel filter	{AA 1 D} {CE 0 A}
F23	Climate Control ignition	{AA 1 D} {HA 0 B}

Fuse	Circuit	Schematic
F24	Instrument cluster	{AA 2 D} {BC 0 A}
F25	Heated seat	{AA 2 D} {IB 1 A}
F26	Windshield wiper	{AA 2 D} {GP 0 B}
F27	Interaxle Lock	{AA 2 D} {FD 3 A} {FC 2 A}
F28	Interwheel Lock	{AA 2 D} {FD 1 A} {FC 1 A}
F29	Camera Prep / Body Builder module / Vorad	{AA 3 D} {BG 1 A} {JB 2 A}
F30	LH Power Seat	{AA 3 D} {IB 0 A}
F31	RH Power Seat	{AA 3 D} {IB 1 A}
F32	Ignition Expansion	{AA 3 D} {BJ 2 A}
F33	Snow plow lamps LH	{AA 3 D} {GI 1 A}
F34	Central tire inflation	{AA 4 D} {FE 1 A}
F35	Snow plow lamps RH	{AA 4 D} {GI 1 A}
F36	LCM5	{AA 0 D} {GB 3 B}
F37	Trailer stop lamp relay	{AA 0 D} {GB 2 A}
F38	LCM6	{AA 0 D} {GB 3 A}
F39	City horn	{AA 0 D} {GQ 0 B}
F40	Radio / Instrument cluster memory	{AA 0 D} {BC 0 A} {KA 1 A} {KB 2 A} {KC 1 A}
F41	12V outlet, overhead	{AA 1 D} {IF 2 B}
F42	Cigar 12V outlet	{AA 0 D} {IF 0 B}
F43	Dome and door lamps	{AA 0 D} {IE 1 A}

Fuse	Circuit	Schematic
F44	Qualcomm battery	{AA 0 D} {BE 0 B}
F45	CB radio	{AA 0 D} {IF 3 B}
F46	Central lock unit	{AA 1 D} {IE 3 A}
F47	Air horn	{AA 1 D} {GQ 2 B}
F48	Not used	
F49	AUX1	{AA 0 E} {NA 0 A}
F50	AUX2	{AA 0 E} {NA 1 A}
F51	AUX3	{AA 0 E} {NA 2 B}
F52	Battery protection status	{AA 1 E} {HB 1 A}
F53	Climate control	{AA 1 E} {HA 0 A}
F54	Road Relay / Battery expansion	{AA 1 E} {BH 1 A}
F55	-	
F56	Air dryer	{FA 2 A} {AB 0 E}
F57	SRS	{JA 0 B} {AB 0 E}
F58	Lift Axles / Body builder reverse	{FB 0 A} {AB 0 E}
F59	Qualcomm / Inside/Outside Air	{BE 1 B} {CH 0 A} {AB 1 E}
F60	Road Relay / Body Builder Ign-Y	{BG 1 A} {BH 1 A} {AB 1 E}
F61	ABS1	{EA 2 A} {AB 1 E}
F62	ABS2	{EA 2 A} {AB 1 E}
F63	Susp. Dump	{FD 2 A} {FB 4 A} {AB 2 E}
F64	5th Wheel Slide	{FD 3 A} {FB 3 A} {AB 2 E}
F65	Light Control Module / Light Control Panel	{GA 1 A} {AB 2 E}

Fuse	Circuit	Schematic
F66	Body Builder Ign-X	{BG 0 A} {AB 2 E}
F67	Fuel cooler	{CG 1 A} {AB 3 E}
F68	Central lock unit	{IE 3 A} {AB 3 E}
F69	Ign Expansion/ Volvo Link	{BF 1 A} {AB 3 E}
F70	DR Spare	{AA 2 D}
F71	DR Spare	{AA 3 D}
F72	Gearbox	{AA 3 D} {DB 0 A} {DC 0 A} {DD 1 A} {DG 1 A} {DF 1 B}
F73	ICON	{AA 3 D} {CC 2 A}
F74	Radio with Icon / Amp.	{AA 3 D} {KA 0 A} {KB 2 A} {KC 0 A}
F75	PTO/ Dual PTO	{AA 3 D} {DP 2 A}
F76	Engine Brake	{AA 4 D} {CF 2 A}
F77	Allison DR	{DF 3 B}
F78	Allison	{DF 0 B}
F79	EMS A	{BA 0 A}
F80	EMS B/ Deairation Sw.	{BA 1 A}
F81	EMS System	{BA 0 A}
F82	Body Builder module	{BA 0 A}
F90	Sink pump	{HE 0 C}
F91	Preheat	{CB 2 E}
FB01	FUSE, BATTERY 1, EMS	{BA 0 D}
FB02	FUSE, BATTERY 2, EMS	{BA 0 D}
FB03	FUSE, BATTERY 1 TRANSMISSION	{DB 4 B} {DG 0 C} {DF 3 D}
FB04	FUSE, BATTERY 2 TRANSMISSION	{DF 3 D}

Reference List: Relays

Relay	Circuit	Schematic
RLY01	RELAY, DR	{AA 3 C}
RLY02	RELAY, TRAILER PARKING	{GB 1 B}
RLY03	RELAY, TRAILER STOP	{GB 2 B}
RLY04	RELAY, EMS	{BA 0 C}
RLY05	RELAY, ICON, BATTERY PROTECTION, LIFT AXLE / REVERSE SIGNAL	{CC 3 B} {FB 2 A}
RLY05_1	RELAY, BATTERY PROTECTION	{HB 1 D}
RLY06	RELAY, ICON / FUEL COOLER	{CC 2 B} {CG 1 B}
RLY07	RELAY, PTO	{DP 1 B}
RLY08	RELAY, ICON PARK BRAKE INPUT	{CC 3 B}
RLY09	RELAY TRAILER MARKER	{MA 0 B}
RLY10	RELAY, CITY HORN	{GQ 0 C}
RLY11	RELAY, DOME / DOOR LAMPS	{IE 1 C}
RLY12	RELAY, INTERMITTENT WIPER	{GP 0 B}
RLY13	RELAY, AUTOSHIFT	{DB 1 B}
RLY13_1	RELAY, ALLISON START ENABLE	{DF 0 C}
RLY14	RELAY, ALLISON AUTONEUTRAL	{DF 1 B}
RLY15	RELAY, ALLISON POWER	{DF 1 C}
RLY16	RELAY, BODY BUILDER REMOTE THROTTLE INC	{BA 3 B}
RLY17	RELAY, BODY BUILDER REMOTE THROTTLE DEC	{BA 3 B}
RLY18	RELAY, ALLISON SERVICE BRAKE INPUT	{DF 2 C}
RLY20	RELAY, ALLISON BODY BUILDERER1	{DF 2 C}
RLY21	RELAY, ALLISON BODY BUILDERER2	{DF 3 C}
RLY26	SNOWPLOW LH ER8	{GI 1 C}
RLY27	SNOWPLOW RH ER9	{GI 0 C}
RLY28	SNOWPLOW LCM INPUTER7	{GI 2 C}
RLY29	POWER RELAY 1 BATTERY	{AA 1 C}
RLY30	POWER RELAY 2 IGNITION	{AA 1 C}
RLY31	POWER RELAY 3 IGNITION	{AB 1 D}
RLY32	POWER RELAY 4 ACCESSORY	{AB 1 D}
RLY40	RELAY STARTER MOTOR	{AA 3 B}
RLY41	RELAY, PARK BRAKE	{HB 4 C}
RLY42	RELAY ENGINE PREHEAT	{CB 2 B} {CD 0 A}

Reference List: Components

Component # and Description		Location
A03A	INSTRUMENT CLUSTER A	{BC 0 C}
A03B	INSTRUMENT CLUSTER B	{BC 2 C}
A03C	INSTRUMENT CLUSTER C	{BD 0 C}
A04	REFRIGERATOR	{HD 0 B} {HE 1 C}
A04A	REFRIGERATOR	{HE 1 D}
A07A	RADIO	{KA 0 C}
A07B	RADIO	{JC 1 C} {KB 2 B}
A07C	RADIO	{KC 1 B}
A08	Control unit, GPS receiver, (Global Positioning System)	{BF 1 C}
A12	Control unit, ABS (Anti-lock Brake System)	{EA 2 C}
A13L	CONTROL UNIT LIGHTNING TRANSMISSION	{DC 0 C}
A13M	CONTROL UNIT MERITOR TRANSMISSION	{DD 1 C}
A14A	CONTROL UNIT, VED12	{CB 0 D}
A14B	CONTROL UNIT, EMS, CUMMINS ISX	{CC 0 D}
A14C	CONTROL UNIT, EMS, CUMMINS ISL / ISC	{CD 0 C}
A14D	CONTROL UNIT, EMS, ICON	{CC 3 D}
A14E	CONTROL UNIT, ISX 2000 W/O ICON	{CI 1 D}
A15	Control unit, SRS (Supplementary Restrain System)	{JA 1 C}
A17	Control unit, VECU (Vehicle ECU)	{BA 1 D} {BB 0 A}
A19D	CONTROL UNIT, GECU (GEAR SELECTOR ECU) ALLISON TRANSMISSION	{DE 1 B}
A27	LIGHT CONTROL MODULE	{GA 3 C} {GG 0 A} {GB 0 C}
A30	CONTROL UNIT, SWC (STEERING WHEEL CONTROL)	{JC 1 C}
A34	Control unit, climate unit	{HA 2 B}
A35	Control unit, remote receiver, door lock	{IE 3 B}
A36	Control unit, BBM (Body Builder Module)	{BI 0 C}
A38	Control unit, FMS, satellite communication	{BE 1 C}

Component # and Description		Location
A46	Control unit, LECM (Living Environment Control Module)	{HD 3 A} {HB 3 B} {HE 2 A}
A48	TV	{KC 0 C}
A50	CPU, Vorad	{JB 2 C}
A51	Display, Side Sensor Vorad	{JB 1 E}
A52	Display, CTI (Central Tire Inflation)	{FE 2 B}
A53	Control unit, CTI (Central Tire Inflation)	{FE 0 C}
A54	Control Unit, Coolant Level	{CC 0 E} {CD 2 B} {CI 0 D}
A55	AUTOSHIFT II TRANSMISSION	{DB 3 D}
A56	Stereo amplifier	{KC 0 C}
A57	CONTROL UNIT, ALLISON TRANSMISSION	{DE 3 C} {DF 0 D}
A58	ALLISON TRANSMISSION	{DE 0 E}
A66	DISPLAY, AUTOSHIFT	{DB 1 C}
A67	DISPLAY DRIVER VORAD	{JB 0 A}
A68	MERITOR FREEDOMLINE	{DG 0 E}
A69	SHIFT MODULE	{DG 1 B}
A70	Shift module Autoshift II	{DB 0 D}
B02A	THERMOSTAT, SLEEPER CONTROL #1	{CC 1 B}
B02B	THERMOSTAT, SLEEPER CONTROL #2	{CC 0 B}
B06A	SENSOR AIR PRESSURE TANK A	{BC 3 D}
B06AP	SENSOR AIR PRESSURE BRAKE APPLICATION	{BC 2 D}
B06B	SENSOR AIR PRESSURE TANK B	{BC 3 D}
B07	SENSOR FUEL LEVEL	{BC 2 D}
B08	Sensor, gearbox speed	{FE 1 D}
B09	SENSOR OIL TEMP GEARBOX	{BC 4 B}
B13	Sensor, wheel speed, lhs. 1:st front axle	{EA 1 B}
B14	Sensor, wheel speed, rhs. 1:st front axle	{EA 1 B}
B15	Sensor, wheel speed, lhs. 1:st driven rear axle	{EA 0 D}
B16	Sensor, wheel speed, rhs. 1:st driven rear axle	{EA 0 D}
B17	Sensor, wheel speed, lhs., 2:nd driven rear axle	{EA 2 D}
B18	Sensor, wheel speed, rhs., 2:nd driven rear axle	{EA 3 D}

Component # and Description		Location
B22A	SENSOR AMBIENT AIR TEMP.	{BC 3 B}
B22B	SENSOR AMBIENT AIR TEMP.	{BC 3 B}
B25	Sensor, accelerator pedal	{BB 4 C}
B38RF	SENSOR OIL TEMP REAR FRONT AXLE	{BC 3 B}
B38RR	SENSOR OIL TEMP REAR REAR AXLE	{BC 3 B}
B39	SENSOR AIR RESTRICTION	{BD 0 B}
B53	Sensor, temperature, parking heater	{CC 0 C}
B56	Sensor, air pressure, suspension bellows front axle	{BC 2 C}
B58R	SENSOR AIR PRESSURE REAR SUSPENSION	{BC 2 D}
B59	Sensor, Indoor Temp.	{HA 2 B}
B60A	SPEAKER LEFT DASH	{KA 2 D} {KB 3 D} {KC 1 D}
B60B	SPEAKER RIGHT DASH	{KA 2 D} {KB 2 D} {KC 2 D}
B60C	SPEAKER LEFT DOOR	{KA 0 D} {KB 3 D} {KC 0 D}
B60D	SPEAKER RIGHT DOOR	{KA 1 D} {KB 2 D} {KC 0 D}
B60E	SPEAKER LEFT UPPER	{KB 0 D} {KC 2 B}
B60F	SPEAKER RIGHT UPPER	{KB 0 D} {KC 3 B}
B60G	SPEAKER LEFT LOWER	{KC 2 D}
B60H	SPEAKER RIGHT LOWER	{KC 2 D}
B60I	SPEAKER SUBWOOFER	{KC 3 D}
B60J	SPEAKER LEFT UPPER	{KB 1 D}
B60K	SPEAKER RIGHT UPPER	{KB 1 D}
B60L	SPEAKER LEFT REAR	{KB 0 B}
B60M	SPEAKER RIGHT REAR	{KB 0 B}
B61A	TWEETER LEFT DASH	{KA 2 D} {KB 3 D} {KC 0 D}
B61B	TWEETER RIGHT DASH	{KA 1 D} {KB 1 D} {KC 1 D}
B62	Socket, TV Headphone	{KC 0 C}
B66	PYROMETER	{BC 2 B}
B68	Sensor, output shaft speed, gearbox	{BB 0 D}
B68A	Sensor, Output shaft Speed, gearbox	{BB 1 D}

Component # and Description		Location
B68B	Sensor, Output shaft Speed, gearbox	{DC 1 D}
B78	Side Sensor, Vorad	{JB 1 D}
B79	Sensor, PCU (Pneumatic Control Unit)	{FE 2 D}
B80	SENSOR, ETHER START	{CA 1 C}
B81	SENSOR, WATER IN FUEL	{CD 0 D}
E05A	LAMP 5TH WHEEL (L1)	{GG 1 C}
E05B	LAMP 5TH WHEEL (L3, L4)	{GH 0 C}
E05C	LAMP 5TH WHEEL (L5)	{GH 2 C}
E05D	LAMP 5TH WHEEL	{GG 2 C} {GG 1 C} {GG 1 C} {GH 0 C} {GH 3 C} {GH 2 C} {GH 3 C} {GH 1 C} {GH 1 C}
E05E	LAMP 5TH WHEEL	{GG 1 C} {GH 0 C} {GH 2 C}
E05F	LAMP 5TH WHEEL	{GG 2 C} {GH 3 C} {GH 1 C}
E05G	LAMP 5TH WHEEL	{GG 2 C} {GH 3 C} {GH 1 C}
E05H	LAMP 5TH WHEEL	{GG 2 C} {GH 2 C} {GH 3 C}
E06	Lamp, Backup	{GF 2 C}
E07L	Lamp, Fog Light	{GE 0 C}
E07L_2	Lamp, Fog Light	{GE 1 C}
E07R	Lamp, Fog Light	{GE 0 C}
E07R_2	Lamp, fog light	{GE 1 C}
E08L	Lamp, Driving Light	{GE 2 C}
E08L_2	Lamp, Driving Light	{GE 1 C}
E08R	Lamp, Driving Light	{GE 2 C}
E08R_2	Lamp, Driving Light	{GE 1 C}
E10	Lamp, Tail Light	{GF 3 C}
E10L	LAMP TAIL LIGHT LEFT	{GF 0 C}
E10LA	LAMP TAIL LIGHT LEFT	{GF 1 C}
E10LB	LAMP TAIL LIGHT LEFT	{GF 3 B}
E10R	LAMP TAIL LIGHT RIGHT	{GF 0 C}
E10RA	LAMP TAIL LIGHT RIGHT	{GF 2 D}
E10RB	LAMP TAIL LIGHT RIGHT	{GF 3 B}
E11L	Lamp, Side Repeater	{GA 1 D}

Component # and Description		Location
E11R	Lamp, Side Repeater	{GA 1 D}
E12A	LAMP, MARKER	{GC 1 C}
E12B	LAMP, MARKER	{GC 1 C}
E12C	LAMP, MARKER	{GC 2 C}
E12D	LAMP, MARKER	{GC 2 C}
E12E	LAMP, MARKER	{GC 2 C}
E13L	Lamp, Park/Turn	{GD 1 C}
E13R	Lamp, Park/Turn	{GD 2 C}
E14L	WARNING LAMP SNOWPLOW	{GI 3 C}
E14R	WARNING LAMP SNOWPLOW	{GI 4 C}
E16L	Lamp Door, D.S.	{IE 1 D}
E16R	Lamp Door, P.S.	{IE 1 D}
E17C	Lamp Fluorescent	{HD 2 C} {HE 3 C}
E17D	Lamp Workcenter Fluorescent	{HE 3 B}
E17L	Lamp, Interior Light	{IE 0 D}
E17R	Lamp, Interior Light	{IE 0 D}
E18A	Lamp Lower D.S.	{HD 4 D}
E18B	Lamp Under Cabinet D.S.	{HD 3 C}
E18C	Lamp Upper D.S.	{HD 1 C} {HE 2 B}
E18D	Lamp Upper P.S.	{HE 2 B}
E18E	Lamp Valance D.S.	{HE 3 C}
E18F	Lamp Valance P.S.	{HE 3 B}
E18G	Lamp Upper P.S.	{HD 2 C}
E18H	Lamp Upper D.S.	{HD 2 C}
E18J	Lamp Lower D.S.	{HD 3 D}
E18K	Lamp Table	{HD 3 D}
E20A	Lamp Ashtray Illumination	{IF 1 C}
E22A	LAMP, ROOF SIGN ILLUMINATION	{GC 0 C}

Component # and Description		Location
M80L	Drivers Side Door Lock Control Assembly	{IE 2 D}
M80R	Passenger Side Door Lock Control Assembly	{IE 3 D}
MFA1	Not Used	{AA 1 D}
MFA2	Fuse F4 & F10 in LECM/ Body Builder	{AA 1 B} {HB 2 A} {BG 0 A}
MFA3	FUSE F36-F41	{AA 0 B}
MFA4	DR Relay	{AA 1 B}
MFA5	POWER RELAY 2	{AA 0 B}
MFA6	POWER RELAY 1	{AA 0 B}
MFA7	LCM4	{AA 1 B} {GB 3 B}
MFA8	Not Used	{AA 1 B}
MFB1	Fuse F1 & F7 in LECM	{HB 1 A} {AB 3 C}
MFB2	TRAILER AUX	{MA 0 A} {AB 0 D}
MFB3	POWER RELAY 3	{AB 3 C}
MFB4	POWER RELAY 4	{AB 3 C}
MFB5	Fuse F8-F13	{AB 4 C}
MFB6	Fuses F15-F20	{AB 1 A}
MFB7	BUNK HVAC	{HB 2 A} {AB 3 C}
MFB8	BUNK FUNCTIONS	{HB 3 A} {AB 4 C}
R01	Heater, engine preheat	{CB 3 C} {CD 1 B}
R04A	Cigar Lighter	{IF 1 C}
R04B	CIGAR LIGHTER, PANEL	{HD 1 B} {HE 1 C}
R05A	AIR DRYER	{FA 2 C}
R05B	AIR DRYER	{FA 2 C}
R05C	AIR DRYER	{FA 3 C}
R08	Termination resistor, CAN-bus	{CC 1 C} {CD 3 B} {CI 2 B}
R08A	TERMINATION RESISTOR	{BI 2 A}
R08B	TERMINATING RESISTOR	{XA 2 B}
R08C	TERMINATING RESISTOR	{XA 3 B}
R09	Heater, Fuel Filter	{CE 0 C}
R18A	HEATER DRAIN VALVE	{FA 0 C}
R18B	HEATER DRAIN VALVE	{FA 1 C}
S01	Switch, main lighting, selector type	{GA 0 C}
S02	Stalk switch, full- / dipped beams	{BA 2 B}

Component # and Description		Location
S04	SWITCH, CLIMATE FAN SELECTOR TYPE	{HB 0 B}
S05	Switch Interior Lighting	{HD 0 B} {HE 2 D}
S06	WINDSHIELD WIPER SWITCH	{BC 1 C} {GP 0 C}
S07	Switch, engine brake, selector type	{CF 3 C} {CF 1 C} {CF 0 C} {CF 0 D}
S08	Switch, differential gear lock, rear wheels	{FD 1 B} {FC 1 C}
S09	Switch, differential gear locks, inter axles and rear wheels, selector type	{FD 3 B} {FC 2 C}
S104	Switch, Marker Interrupt	{JC 3 C}
S104A	Auxiliary Switch 1	{NA 0 C}
S104B	Auxiliary Switch 2	{NA 1 C}
S104C	Auxiliary Switch 3	{NA 2 C}
S11A	SWITCH 1, LIFT AXLE	{FB 0 B}
S11B	SWITCH 2, LIFT AXLE	{FB 1 C}
S11C	SWITCH 3, LIFT AXLE	{FB 2 C}
S12	SWITCH, SNOWPLOW LAMP	{GI 1 B}
S120	THERMAL SWITCH FUEL COOLER	{CG 0 B}
S121	SWITCH, TOUCH LOCK	{BJ 2 C}
S13	Stalk switch, direction indicator, selector type	{GA 2 B}
S14A	Switch, City Horn/Air Horn	{GQ 1 C}
S15	Switch, Ignition	{AB 1 C}
S24	Stalk switch, retarder, selector type	{CF 2 D}
S24A	SWITCH, STALK ALLISON RETARDER	{DE 0 B}
S24C	Switch, ON/OFF Allison Retarder	{CF 3 C} {CF 2 C} {DE 2 B}
S28A	Switch, Power Take-Off	{DP 2 C}
S28B	Switch, Power Take-Off	{DP 3 C}
S28C	Switch, Power Take-Off	{DP 4 C}
S28E	SWITCH, VOLVO ACTION SERVICE	{BF 1 D}
S31	Switch, TCS (Traction Control System)	{EA 3 B}
S35	Switch unit, GLU (Gear Lever Unit)	{DC 2 D}
S35M	SWITCH UNIT, GLU (GEAR LEVER UNIT)	{DD 1 D}
S43	Pressure Switch, Parking Brake Indicator	{BA 4 C}

Component # and Description		Location
S45	Position switch, differential gear lock indicator, rear wheels, NC. or NO.	{BD 2 B}
S45B	DIFFERENTIAL SWITCH, REAR AXLE	{BD 2 B}
S48	Pressure switch, brake light, NO.	{GB 2 D}
S49	Position switch, reverse lamps, NO.	{GA 2 B}
S58	Position Switch, Clutch Pedal	{BB 3 B}
S59	Position Switch, Brake Pedal	{BB 3 B}
S62	Pressure switch, air pressure, NC.	{FE 0 D}
S68	Proximity switch, coolant level, NC.	{CC 1 E} {CD 2 B} {CI 0 D}
S75	SWITCH, BEACON WARNING LIGHT	{GI 3 B}
S76	Switch, spotlights	{GG 0 C}
S80	Door Lock Control Module	{IE 2 B}
S80D	Driver Side Door Control Panel	{IC 2 B}
S80P	Passenger Side Door Control Panel	{IC 2 D}
S87	SWITCH SINK/ FAUCET	{HE 0 C}
S88	Switch, 5th Wheel Slide	{FD 2 B} {FB 3 B}
S89	POSITION SWITCH HOOD TILT	{CC 4 D}
S90	POSITION SWITCH, NEUTRAL	{CC 4 D}
S91	SWITCH, DEAIRATION	{BA 1 B}
S92	Switch, Inverter remote	{HC 0 D}
S93	Switch, Suspension Dump	{FD 1 B} {FB 3 C}
S97	SWITCH, INSIDE / OUTSIDE AIR CLEANER	{CH 0 C}
S98	Switch, Smoke Detector Disable/Beacon Lamp	{IG 2 D}
W04	Front Antenna, Vorad	{JB 0 E}
X01	Connector, Vehicle Diagnostics	{XA 2 D}
X04	Trailer connection, 7-pole unit, 24 N	{MA 1 D}
X06A	BODY BUILDER CONNECTOR #3	{BI 1 D}
X06B	BODY BUILDER CONNECTOR #4	{BI 3 D}
X06C	BODY BUILDER CONNECTOR #1	{BG 0 D}
X06D	BODY BUILDER CONNECTOR #2	{BG 2 B}
X06E	CUMMINS ISC/ISL ONLY WITH BODY BUILDER	{BG 2 C}
X06F	BODY BUILDER CAMERA PREP	{BG 1 B}
X07A	12V SOCKET	{IF 0 C}
X07B	12V SOCKET, PANEL	{HD 1 C} {HE 1 B}
X07C	12V SOCKET, D.S. CABINET	{HE 2 C}

Component # and Description		Location
X07D	12V SOCKET, TV/VCR	{HD 1 C} {HE 2 B}
X07E	12V SOCKET, RADIO SHELF	{IF 2 C}
X07F	12V STUDS, CB OVERHEAD	{IF 3 C}
X07G	12V STUDS, CB DASH	{IF 3 C}
X08	Contact reel, air bag	{GA 3 B} {JA 0 D} {JC 0 D}
X0A	SPLICE PACK	{AC 3 B}
X0B	SPLICE PACK	{AC 3 D}
X0D	SPLICE PACK	{AC 2 B}
X0X	SPLICE PACK	{AD 3 B}
X13	Connector, CTI configuration	{FE 0 C}
X14	ROAD RELAY CONNECTOR	{BH 0 C}
X17A	Auxiliary Connector 1	{NA 0 D}
X17B	Auxiliary Connector 2	{NA 1 D}
X17C	Auxiliary Connector 3	{NA 2 D}
X17CA	OPTION CONNECTOR A,CAB SIDE	{BG 2 D}
X17CB	OPTION CONNECTOR B,CAB SIDE	{BG 3 D}
X17CC	OPTION CONNECTOR C,CAB SIDE	{BG 3 D}
X17FA	OPTION CONNECTOR A, CHASSIS SIDE	{BG 2 D}
X17FB	OPTION CONNECTOR B,CHASSIS SIDE	{BG 3 D}
X17FC	OPTION CONNECTOR C, CHASSIS SIDE	{BG 3 D}
X18A	Fusible Link	{AA 2 A}
X18B	Fusible Link	{AB 3 A}
X18C	Fusible Link	{AD 2 D}
X18D	Fusible Link	{CD 1 B}
X18E	Fusible Link	{CD 1 B}
X19	RADIO CONNECTOR	{BH 4 B}
X20	MAIN CAB RADIO CONNECTOR	{BH 3 B}
X21	OPTION CONNECTOR SNOWPLow LIGHTS	{GI 1 D}
X23	Connector, Interface V.A.L.	{BF 2 B}
X24	Connector, Low Coolant Level	{CD 2 A}
X25	Connector, OEM Interface	{CI 0 C}
X284/196DR	SPLICE PACK	{AB 0 A}
X400	SPLICE PACK	{XA 0 B}
X401	SPLICE PACK	{XA 1 B}
XP1	POWER STUD	{AA 1 A}

Component # and Description		Location
XP2	POWER STUD	{AB 3 B}
Y11	Solenoid valve unit, ABS, lhs. front	{EA 1 B}
Y12	Solenoid valve unit, ABS, rhs. front	{EA 0 B}
Y13	Solenoid valve unit, ABS, lhs. rear	{EA 1 D}
Y14	Solenoid valve unit, ABS, rhs. rear	{EA 1 D}
Y15	Solenoid valve unit, ABS, lhs. 3:rd axle	{EA 3 D}
Y16	Solenoid valve unit, ABS, rhs. 3:rd axle	{EA 3 D}
Y18A	SOLENOID VALVE SINGLE PTO	{DP 0 D}
Y18B	SOLENOID VALVE ENGINE MOUNTED DUAL PTO	{DP 3 D}
Y42	Clutch, magnetic, air conditioning compressor	{HA 1 C}
Y50	Solenoid valve, PCU (Pneumatic Control Unit)	{FE 3 D}
Y51	Solenoid valve, Air dryer	{FA 3 C}
Y53	SOLENOID, ETHER START	{CA 0 C}
Y53A	SOLENOID PACK, PRIMARY	{FD 0 D} {GQ 1 C} {FC 0 D}
Y53A_1	SOLENOID PACK, PRIMARY	{FD 3 C} {FD 2 C}
Y53B	SOLENOID PACK, SECONDARY	{FD 0 A} {FB 1 D} {BJ 2 D}
Y53B_1	SOLENOID PACK, SECONDARY	{FB 2 D}

Component # and Description		Location
Y57	Solenoid Valve, ACT	{EA 1 D}
free1_52	*opt*	{IE 4 C}
MC141A:D	*opt*	{BJ 1 B}
MC141A:G	*opt*	{NA 0 B}
MC141A:H	*opt*	{IG 2 B}
MC141A:J	*opt*	{BF 0 B}
MC141A:K	*opt*	{NA 1 A}
MC141A:L	*opt*	{NA 3 B}
MCFC:69	*opt*	{BJ 2 C}
MCFC:94	*opt*	{BJ 2 C}
X0B:A	*opt*	{AC 3 D}
XC1	Stud, Bulkhead Inside Cab	{AD 2 C}
XE1	Stud, Eng. Block	{AD 1 D}
XF1	Stud, Frame Rail	{AD 0 D}
XG2	Stud 2, Bulkhead	{AC 2 E}
XG3	Stud 3, Bulkhead	{AC 3 E}
XG4	Stud 4, Bulkhead	{AC 3 E}
XG5	Stud 1, Bulkhead	{AC 0 D} {AC 2 E}
XG6	Stud, Bulkhead	{AD 0 C}
XG7	Stud, Bulkhead	{AD 0 C} {AD 1 C}
XG9	Stud, Behind Alt.	{CB 3 D} {CD 1 C}

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		
OF	OVERHEAD FRONT		

Harness Abbreviations (Examples)			
NAME	HARNESS	NAME	HARNESS
OPT	OPTION CONNECTOR IN DASH		
PHC	PREHEATER, CUMMINS		
PHV	PREHEATER, VOLVO		
PJ	PREHEAT JUMPER		

List of Connectors

Inline Connector	Location		
B1-6:1	{BF 2 D}	ENPHC:A	{CD 0 C}
B1-6:2	{BF 1 B}	ENPHC:B	{CD 0 C}
B2:B2-1_1	{AB 3 B}	ENPHC:C	{CD 0 B}
B2:B2-1_2	{BH 1 B}	ENPHV:A	{CB 4 C}
B2:B2-2_1	{BH 0 D}	ENPHV:B	{CB 2 D}
B2:B2-2_2	{BH 1 B}	ENPTO:A	{DP 0 D}
B2:B2-3_1	{AC 3 C}	ENPTO:B	{DP 0 D}
B2:B2-3_2	{AB 4 E}	ENTSJ:A	{CG 0 C}
B2:B2-5_2	{AB 4 D}	ENTSJ:B	{CG 0 B}
B3:R15_30	{DF 1 C}	FCAD:A	{FA 2 D}
B3:R15_85	{DF 1 B}	FCAD:B	{FA 2 B}
B3:R15_86	{DF 1 C}	FCAR:A	{BD 1 C}
B3:R15_87	{DF 1 B}	FCAR:B	{BD 0 B}
B3:R16_30	{BA 3 B}	FCCE:A	{GF 0 B}
B3:R16_85	{BA 3 C}	FCCE:B	{GF 1 B}
B3:R16_86	{BA 3 B}	FCCE:C	{GF 1 B}
B3:R16_87	{BA 3 C}	FCCE:D	{GF 2 A}
B3:R17_30	{BA 3 B}	FCCE:E	{BD 2 C}
B3:R17_85	{BA 3 B}	FCCE:F	{BC 3 B}
B3:R17_86	{BA 3 B}	FCCE:G	{BC 3 B}
B3:R17_87	{BA 3 B}	FCCE:H	{BD 2 D}
B3:R18_30	{DF 2 C}	FCCE:J	{GF 2 D}
B3:R18_85	{DF 2 B}	FCDV:A	{FA 1 B}
B3:R18_86	{DF 2 C}	FCDV:B	{FA 0 D}
B3:R18_87	{DF 2 B}	FCEN1:A	{XA 3 D}
CERA2:1	{EA 0 D}	FCEN1:B	{XA 0 D}
CERA2:3	{EA 1 D}	FCEN1:C	{BC 2 B}
CERAJ1:A	{BD 2 B}	FCEN1:D	{AD 3 C}
CERAJ1:B	{BD 2 C}	FCEN1:E	{BC 2 B}
CERAJ1:C	{BC 3 B}	FCEN1:F	{HA 1 C}
CERAJ2:A	{BD 2 B}	FCEN1:G	{AA 3 B}
CERAJ2:B	{BD 3 C}	FCEN1:H	{XA 3 D}
CERAJ2:C	{BC 3 B}	FCEN1:J	{XA 1 D}
CETL:A	{GF 0 B}	FCEN1:K	{AA 3 B}
CETL:B	{GF 1 B}	FCEN1:L	{FD 0 C} {FC 0 C}
CETL:C	{GF 1 B}	FCEN1:M	{AD 1 B}
CETL:D	{GF 2 B}	FCEN1:N	{DP 0 C}
CETL:E	{GF 2 D}	FCEN1:P	{CC 3 C}
DVAD:A	{FA 1 C} {FA 1 B}	FCEN1:R	{BB 2 C}
DVAD:B	{FA 1 C} {FA 1 D}	FCEN1:S	{CC 3 C}
DVDV:A	{FA 1 B}	FCEN2:A	{CC 3 C}
DVDV:B	{FA 1 C}	FCEN2:B	{CC 3 C} {CD 4 C}
ENBP:A	{AD 3 D}	FCEN2:C	{CC 3 C} {CD 4 C}
ENBP:B	{BA 0 D}	FCEN2:D	{CC 3 C}
ENBP:C	{BA 0 D}	FCEN2:E	{CB 4 C}
ENFCJ:A	{CG 1 D}	FCEN2:F	{BA 0 C}
ENFCJ:B	{CG 1 D}	FCEN2:G	{CB 1 C}
ENOCP:A	{AA 4 B}	FCEN2:H	{CC 2 C} {CI 3 C}
ENOCP:B	{AA 3 B}	FCEN2:K	{BG 0 C}
		FCEN2:L	{CC 4 C}
		FCEN2:M	{CB 0 C}

FCEN2:N	{CB 1 C}	FRC:F1_B	{IC 2 A}
FCEN2:P	{CC 4 D} {CG 1 C}	FRC:F10_A	{AB 3 C}
FCEN2:R	{CG 1 B}	FRC:F10_B	{GB 2 B}
FCFA:A	{JB 0 D}	FRC:F11_B	{BF 1 B}
FCFA:B	{JB 0 D}	FRC:F12_B	{AB 4 C}
FCFA:C	{JB 0 D}	FRC:F13_B	{XA 2 B}
FCFA:D	{JB 0 D}	FRC:F15_B	{AB 1 B}
FCFD1:A	{GE 0 B}	FRC:F16_B	{AB 2 B}
FCFD1:B	{GE 2 B}	FRC:F17_B	{GB 3 A}
FCFD1:C	{GE 1 D}	FRC:F18_A	{AB 2 B}
FCFD2:A	{GE 1 C}	FRC:F18_B	{GB 1 B}
FCFD2:B	{GE 1 C}	FRC:F19_B	{DC 0 B}
FCFD2:C	{GE 1 D}	FRC:F2_B	{KA 0 B} {KB 2 B} {KC 0 A}
FCFD3:A	{GE 1 C}	FRC:F20_B	{HB 1 B} {GI 3 B}
FCFD3:B	{GE 1 C}	FRC:F21_A	{CC 1 B} {CI 3 B}
FCFD3:C	{GE 1 D}	FRC:F21_B	{CC 1 C} {CI 3 C}
FCHL:A	{GD 3 B}	FRC:F22_B	{CE 0 B}
FCHL:B	{GD 3 B}	FRC:F23_B	{HA 0 B}
FCHL:C	{GD 0 B}	FRC:F24_B	{BC 0 B}
FCHL:D	{GD 0 B}	FRC:F25_A	{AA 1 D}
FCHL:E	{GD 1 B}	FRC:F25_B	{IB 1 B}
FCHL:F	{GD 3 B}	FRC:F26_B	{GP 0 B}
FCHL:G	{GD 2 B}	FRC:F27_B	{FD 3 A} {FC 2 B}
FCHL:H	{GD 1 D}	FRC:F28_B	{FD 1 A} {FC 1 B}
FCHL:J	{GD 3 D}	FRC:F29_B	{BG 1 B} {JB 2 B}
FCHL:K	{BC 3 B}	FRC:F3_B	{IC 1 A}
FCHL:L	{BC 2 A}	FRC:F30_B	{IB 0 B}
FCIJ:A	{CC 0 B}	FRC:F31_B	{IB 1 B}
FCIJ:B	{CC 0 B}	FRC:F32_A	{AA 3 D}
FCPJ:F	{BA 0 C}	FRC:F32_B	{AA 3 E}
FCPJ:G	{CB 1 C}	FRC:F33_B	{GI 1 B}
FCPJ:K	{BG 0 C}	FRC:F34_B	{FE 1 B}
FCPJ:M	{CB 0 C}	FRC:F35_B	{GI 1 B}
FCPJ:N	{CB 1 C}	FRC:F36_B	{GB 3 B}
FCPTO:A	{DP 4 D}	FRC:F37_A	{GB 2 A}
FCSPJ:A	{FB 2 D}	FRC:F38_A	{AA 0 C} {GB 3 A}
FCSPJ:B	{FB 2 D}	FRC:F39_B	{GQ 0 B}
FCSPJ:C	{FB 2 D}	FRC:F4_A	{AB 3 D}
FCSPJ:D	{FB 2 C}	FRC:F4_B	{IC 3 A}
FCSPJ:F	{FB 1 D}	FRC:F40_B	{BC 0 B} {KA 1 B} {KB 2 B} {KC 1 A}
FCSPJ:G	{FB 2 D}	FRC:F41_B	{IF 2 B}
FCSPJ:H	{FB 2 D}	FRC:F42_B	{IF 0 B}
FCSPJ1:B	{FD 2 D}	FRC:F43_B	{IE 1 B}
FCSPJ1:C	{FD 2 C}	FRC:F44_A	{AA 0 D}
FCSPJ1:D	{FD 2 C}	FRC:F44_B	{BE 0 B} {FB 0 B}
FCSPJ1:E	{FD 1 E}	FRC:F45_B	{IF 3 B}
FCSPJ1:H	{FD 2 D}	FRC:F46_B	{IE 3 B}
FCSPJ2:E	{FD 2 C}	FRC:F47_B	{GQ 2 B}
FCSPJ3:A	{FD 4 B}	FRC:F49_B	{NA 0 B}
FCSPJ3:B	{FD 3 D}	FRC:F5_B	{JC 0 B}
FCSPJ3:C	{FD 4 C}	FRC:F50_B	{NA 1 B}
FCSPJ3:D	{FD 4 C}	FRC:F51_A	{AA 1 D}
FCSPJ3:E	{FD 4 C}	FRC:F51_B	{NA 2 B}
FCSPJ3:F	{GQ 2 C}	FRC:F52_B	{HB 1 B}
FCSPJ3:G	{GQ 2 D}	FRC:F53_B	{HA 0 B}
FCSPJ3:H	{FD 3 D}	FRC:F54_B	{BH 1 B}
FCSPJ4:A	{FB 2 C}	FRC:F56_B	{FA 2 A}
FCSS:A	{JB 1 D}	FRC:F57_B	{JA 0 B}
FCSS:B	{JB 2 D}	FRC:F59_A	{AB 1 D}
FCSS:C	{JB 1 D}	FRC:F59_B	{BE 1 B} {CH 0 B}
FCTR:A	{XA 2 D}	FRC:F6_B	{AB 4 D}
FCTR:B	{XA 4 D}	FRC:F60_B	{BG 1 B} {BH 1 B}
FRC:BI-4_2	{AA 4 E}	FRC:F61_B	{EA 2 B}

FRC:F62_B	{EA 2 B}	FRC:R4_87	{BA 0 B}
FRC:F63_B	{FD 2 A} {FB 4 A}	FRC:R5_30	{HB 1 D} {CC 3 C} {FB 3 A}
FRC:F64_B	{FD 3 A} {FB 3 A}	FRC:R5_85	{HB 1 D} {CC 3 B} {FB 2 B}
FRC:F65_B	{GA 1 B}	FRC:R5_86	{HB 1 D} {CC 3 C} {FB 2 A}
FRC:F66_A	{AB 2 D}	FRC:R5_87	{HB 1 D} {CC 3 B} {FB 3 B}
FRC:F66_B	{BG 0 B}	FRC:R5_87A	{HB 1 D} {FB 3 B}
FRC:F67_B	{CG 1 B}	FRC:R6_30	{CC 2 B} {CG 1 B}
FRC:F68_B	{IE 3 B}	FRC:R6_85	{CC 2 C} {CG 1 C}
FRC:F69_B	{BF 1 B}	FRC:R6_86	{CC 2 B} {CG 1 B}
FRC:F72_A	{AA 3 C}	FRC:R6_87	{CC 2 C} {CG 1 C}
FRC:F72_B	{DB 0 A} {DC 0 B} {DD 1 B} {DG 1 A}	FRC:R7_30	{DP 1 B}
	{DF 1 B}	FRC:R7_85	{DP 1 B}
FRC:F73_B	{CC 2 B}	FRC:R7_86	{DP 1 B}
FRC:F74_B	{KA 0 B} {KB 2 B} {KC 0 A}	FRC:R7_87	{DP 1 B}
FRC:F75_B	{DP 2 B}	FRC:R8_30	{CC 3 A}
FRC:F76_B	{CF 2 A}	FRC:R8_85	{CC 3 B}
FRC:F77_A	{DF 3 B}	FRC:R8_86	{CC 3 A}
FRC:F77_B	{DF 3 B}	FRC:R8_87	{CC 3 B}
FRC:F78_A	{DF 0 B}	FRC:R9_30	{MA 0 B}
FRC:F78_B	{DF 0 B}	FRC:R9_85	{MA 0 B}
FRC:F79_A	{BA 0 A}	FRC:R9_86	{MA 0 B}
FRC:F79_B	{BA 0 A}	FRC:R9_87	{MA 0 B}
FRC:F8_B	{GB 2 A}	LKDL:A	{IE 2 B}
FRC:F80_B	{BA 1 B}	LKDL:B	{IE 2 B}
FRC:F81_B	{BA 0 A}	LKDL:C	{IE 3 C}
FRC:F82_B	{BA 0 A}	LKDL:D	{IE 2 C}
FRC:F9_B	{MA 0 B}	LKDL:E	{IE 2 C}
FRC:R1_30	{AA 3 C}	LKDR:A	{IE 3 C}
FRC:R1_85	{AA 3 C}	LKDR:B	{IE 3 C}
FRC:R1_86	{AA 3 C}	LKDR:C	{IE 3 C}
FRC:R1_87	{AA 3 C}	MC141A:A	{GB 1 A}
FRC:R10_30	{GQ 0 B}	MC141A:B	{DP 2 B}
FRC:R10_85	{GQ 0 C}	MC141A:C	{JC 3 A}
FRC:R10_86	{GQ 0 C}	MC141A:E	{DB 0 A} {DE 1 A}
FRC:R10_87	{GQ 0 C}	MC141A:F	{FE 2 A}
FRC:R11_30	{IE 1 C}	MC141A:G	{FB 0 A}
FRC:R11_85	{IE 1 C}	MC141A:J	{HB 0 A} {DE 2 A}
FRC:R11_86	{IE 1 C}	MC141A:K	{GI 1 A}
FRC:R11_87	{IE 1 C}	MC141A-B:A	{GB 1 A}
FRC:R12_30	{GP 1 B}	MC141A-B:B	{FD 1 A} {FC 1 A}
FRC:R12_85	{GP 0 B}	MC141A-B:C	{FD 2 A} {FB 3 A}
FRC:R12_86	{GP 0 B}	MC141A-B:D	{FD 2 A} {FB 3 A}
FRC:R12_87	{GP 0 C}	MC141A-B:E	{EA 3 A}
FRC:R12_87A	{GP 0 C}	MC141A-B:H	{CH 0 A}
FRC:R13_30	{DB 1 B} {DF 0 C}	MCALS:A	{DE 1 B}
FRC:R13_85	{DB 1 B} {DF 0 B}	MCALS:B	{DE 1 B}
FRC:R13_86	{DB 1 B} {DF 0 C}	MCALS:C	{DE 1 B}
FRC:R13_87	{DB 1 B} {DF 0 B}	MCALS:D	{DE 1 B}
FRC:R14_30	{DF 1 B}	MCALS:E	{DE 1 B}
FRC:R14_85	{DF 1 C}	MCALS:F	{DE 1 B}
FRC:R14_86	{DF 1 B}	MCALS:G	{DE 1 B}
FRC:R14_87	{DF 1 C}	MCALS:H	{DE 1 B}
FRC:R2_30	{GB 1 B}	MCALS:J	{DE 1 B}
FRC:R2_85	{GB 1 B}	MCALS:K	{DE 1 B}
FRC:R2_86	{GB 0 B}	MCALS:L	{DE 1 B}
FRC:R2_87	{GB 1 B}	MCALS:M	{DE 1 B}
FRC:R3_30	{GB 2 B}	MCALS:N	{DE 1 B}
FRC:R3_85	{GB 2 B}	MCALS:P	{DE 1 B}
FRC:R3_86	{GB 1 B}	MCAS1:A	{DB 0 C}
FRC:R3_87	{GB 2 B}	MCAS1:B	{DB 1 C}
FRC:R4_30	{BA 0 C}	MCAS1:C	{DB 0 C}
FRC:R4_85	{BA 0 B}	MCAS1:D	{DB 0 C}
FRC:R4_86	{BA 0 C}	MCAS1:E	{DB 1 C}

MCAS1:F	{DB 1 C}	MCBB:B	{BI 1 B}
MCAS1:G	{DB 1 C}	MBCOC:A	{GG 2 B} {GG 1 C} {GG 1 B}
MCAS1:H	{DB 1 C}	MBCOC:B	{GG 2 D} {GG 1 D} {GG 1 D}
MCAS1:J	{DB 1 C}	MCCB:A	{IF 3 C}
MCAS1:K	{DB 0 C}	MCCB:B	{IF 3 D}
MCAS1:L	{DB 2 C}	MCDL2:A	{IC 2 B}
MCAS1:M	{DB 2 C}	MCDL2:B	{IC 1 B}
MCAS2:A	{DB 2 C}	MCDL2:C	{IC 1 C}
MCAS2:B	{DB 2 C}	MCDL2:D	{IC 1 B}
MCAS2:C	{DB 2 C}	MCDL2:E	{IC 2 B}
MCAS2:D	{DB 2 C}	MCDL2:F	{IC 2 B}
MCAS2:E	{DB 2 C}	MCDL2:G	{IC 2 B}
MCAS2:F	{DB 2 C}	MCDL2:H	{IC 2 C}
MCAS2:G	{DB 2 C}	MCDL3:A	{IC 1 B}
MCAS2:H	{DB 2 C}	MCDL3:B	{IC 2 C}
MCAS2:J	{DB 2 C}	MCDL3:D	{IE 1 C}
MCAS3:A	{DG 2 C}	MCDL3:E	{IE 1 C}
MCAS3:B	{DG 2 C}	MCDL3:F	{IE 2 D}
MCAS3:D	{DG 1 C}	MCDL3:G	{IE 2 C}
MCAS3:E	{DG 1 C}	MCDL4:A	{KA 0 D} {KB 3 D} {KC 0 D}
MCAS3:F	{DG 1 C}	MCDL4:B	{KA 0 D} {KB 4 D} {KC 0 D}
MCAS3:G	{DG 1 C}	MCDR2:A	{IE 1 C}
MCAS3:H	{DG 1 C}	MCDR2:B	{IE 3 D}
MCAS4:B	{DG 1 C}	MCDR2:C	{IE 1 C}
MCAS4:D	{DG 1 B}	MCDR2:D	{IC 3 B}
MCAS4:E	{DG 2 C}	MCDR2:E	{IC 2 C}
MCAS4:F	{DG 2 C}	MCDR2:F	{IE 3 C}
MCAS4:K	{DG 1 B}	MCDR3:A	{KA 1 D} {KB 2 D} {KC 0 D}
MCAS4:L	{DG 2 C}	MCDR3:B	{KA 1 D} {KB 2 D} {KC 0 D}
MCAS4:M	{DG 2 C}	MCEB1:A	{BA 4 D}
MCAT1:A	{DE 0 D}	MCEB1:B	{CF 2 B}
MCAT1:B	{DE 0 D}	MCEB1:C	{BA 3 D}
MCAT1:C	{DE 0 D}	MCEB1:D	{BA 3 D}
MCAT1:D	{DE 1 D}	MCEB1:E	{BA 4 D} {CD 4 B}
MCAT1:E	{DE 0 D}	MCEB1:F	{BB 4 C}
MCAT1:F	{DE 0 D}	MCEB1:G	{BB 4 C}
MCAT1:G	{DE 3 C}	MCEB1:H	{CD 4 B}
MCAT1:H	{DE 3 C}	MCEB2:A	{CF 1 B}
MCAT1:J	{DE 0 D}	MCEB2:B	{CF 1 D}
MCAT1:K	{DE 0 D}	MCFC:1	{BA 0 C}
MCAT1:L	{DE 1 D}	MCFC:10	{GQ 2 D}
MCAT1:M	{DE 1 D}	MCFC:100	{HA 1 D}
MCAT1:N	{DE 1 D}	MCFC:101	{BG 0 C}
MCAT1:P	{DE 1 D}	MCFC:11	{BC 2 D}
MCAT1:R	{DE 1 D}	MCFC:12	{GQ 2 B}
MCAT1:S	{DE 1 D}	MCFC:13	{GE 2 B}
MCAT2:A	{DF 1 C}	MCFC:14	{GE 0 B}
MCAT2:B	{DE 2 D}	MCFC:15	{GD 3 B}
MCAT2:C	{DE 2 D}	MCFC:16	{GD 3 B}
MCAT2:D	{DE 1 D}	MCFC:17	{GD 0 B}
MCAT2:E	{DE 1 D}	MCFC:18	{GD 0 B}
MCAT2:F	{DE 2 D}	MCFC:19	{BD 2 C}
MCAT2:G	{DE 3 D}	MCFC:2	{MA 1 C}
MCAT2:H	{DF 3 B}	MCFC:20	{BD 1 C}
MCAT2:J	{DF 3 C}	MCFC:21	{BC 3 C}
MCAT2:K	{DE 3 D}	MCFC:22	{BC 3 C}
MCAT2:L	{DE 3 D}	MCFC:23	{GD 1 B}
MCAT2:M	{DE 3 D}	MCFC:24	{GA 2 D}
MCAT2:N	{DE 3 D}	MCFC:25	{GA 3 D}
MCAT2:P	{DE 2 D}	MCFC:26	{GP 2 B}
MCAT2:R	{DE 3 D}	MCFC:27	{GA 3 D}
MCAT2:S	{DE 0 D}	MCFC:28	{BB 2 B}
MCBB:A	{BI 1 B}	MCFC:29	{BC 2 D}

MCFC:3	{CB 1 B}	MCFC:94	{CG 1 B}
MCFC:30	{EA 2 B}	MCFC:95	{GD 2 B}
MCFC:31	{EA 3 C}	MCFC:96	{MA 1 C}
MCFC:32	{CC 2 C} {BG 0 C}	MCFC:97	{GA 2 D}
MCFC:33	{XA 1 D}	MCFC:98	{MA 0 C}
MCFC:34	{XA 0 D}	MCFC:99	{AD 3 B}
MCFC:35	{GD 3 B}	MCLA:A	{FB 3 B}
MCFC:36	{HA 1 C}	MCLA:B	{FB 1 C}
MCFC:37	{CC 3 C} {BG 2 D}	MCLA:C	{FB 1 C}
MCFC:38	{FD 2 B} {FB 4 C}	MCLA:D	{FB 2 C}
MCFC:39	{FD 3 B} {FC 2 C}	MCLA:E	{FB 1 C}
MCFC:4	{MA 1 C}	MCLA:F	{FB 0 B}
MCFC:40	{EA 3 C}	MCLA:G	{FB 0 C}
MCFC:41	{FD 1 B} {FC 1 C}	MCLA:H	{FB 0 B}
MCFC:42	{FD 3 B} {FB 3 C}	MCLK:A	{IE 3 B}
MCFC:44	{JB 0 C} {FB 1 D}	MCLK:B	{IE 3 B}
MCFC:45	{JB 1 D} {FB 2 C}	MCLK:C	{IE 2 B}
MCFC:46	{CB 0 C}	MCLK:D	{IE 3 B}
MCFC:47	{FB 1 C}	MCLK:E	{IE 3 B}
MCFC:48	{MA 1 C}	MCMC:E	{GA 3 B}
MCFC:49	{MA 0 C}	MCMC:F	{GA 3 C}
MCFC:5	{CE 0 B}	MCMC:G	{GA 3 C}
MCFC:50	{DP 4 D} {JB 0 C}	MCMI:E	{JC 4 D}
MCFC:51	{JB 1 D} {FE 3 B}	MCMI:F	{JC 3 D}
MCFC:52	{JB 2 D} {FE 2 C}	MCMI:H	{JC 3 B}
MCFC:53	{JB 0 C} {FE 2 C}	MCMJ1:A	{IC 4 C}
MCFC:54	{AC 3 D}	MCMJ2:A	{IC 2 D}
MCFC:55	{AC 2 C}	MCMJ2:B	{IC 3 B}
MCFC:56	{JB 0 C} {CG 1 C}	MCMJ2:C	{IC 3 B}
MCFC:57	{CC 0 B} {FE 1 B}	MCMJ2:D	{IC 3 B}
MCFC:58	{DP 0 C}	MCMJ3:A	{IC 1 D}
MCFC:59	{CH 0 D}	MCMJ3:B	{IC 1 B}
MCFC:6	{FA 2 B}	MCMJ3:C	{IC 1 B}
MCFC:61	{BD 1 C}	MCMJ3:D	{IC 1 B}
MCFC:62	{CC 4 C} {CD 4 B}	MCMJ4:A	{IC 0 C}
MCFC:63	{BC 2 C}	MCOF1:A	{IE 0 C}
MCFC:64	{BC 2 C}	MCOF1:B	{IE 0 C}
MCFC:65	{CC 0 B} {BG 3 D}	MCOF1:C	{GC 2 B}
MCFC:66	{BB 0 B}	MCOF1:D	{GC 2 D}
MCFC:67	{CB 4 C}	MCOF1:E	{IE 0 C}
MCFC:68	{CB 1 B}	MCPL:A	{GI 2 C}
MCFC:69	{BG 3 D}	MCPL:B	{GI 0 D}
MCFC:7	{EA 2 B}	MCPL:C	{GI 2 C}
MCFC:71	{BC 3 C}	MCPL:D	{GI 1 B}
MCFC:72	{CC 1 C} {CI 3 C}	MCPL:E	{GI 1 B}
MCFC:73	{CC 3 C}	MCPL:F	{GI 1 B}
MCFC:74	{CC 3 C}	MCPL:G	{GI 0 D}
MCFC:75	{GI 1 D}	MCPL:H	{GI 3 B}
MCFC:76	{GI 1 D}	MCPL2:A	{GI 1 C}
MCFC:77	{GI 1 D}	MCPL2:B	{GI 1 C}
MCFC:78	{GP 1 C}	MCPL2:C	{GI 1 C}
MCFC:79	{GP 3 C} {GI 1 D}	MCPL2:D	{GI 1 C}
MCFC:8	{EA 2 B}	MCPTO1:A	{DP 2 D} {DP 1 C}
MCFC:80	{GP 1 D}	MCPTO1:B	{DP 3 A}
MCFC:81	{GP 2 D}	MCPTO1:C	{DP 3 D}
MCFC:82	{GP 3 C}	MCPTO1:D	{DP 4 C}
MCFC:83	{XA 3 C}	MCPTO2:A	{DP 2 D}
MCFC:84	{XA 3 C}	MCQC:A	{BE 1 B}
MCFC:87	{FB 1 C}	MCQC:B	{BE 0 B}
MCFC:9	{GQ 0 D}	MCRJ:1	{KA 1 C}
MCFC:91	{CC 4 C} {CD 4 B}	MCRJ:10	{KA 1 B}
MCFC:92	{CC 3 C}	MCRJ:11	{KA 1 B}
MCFC:93	{CC 2 C}	MCRJ:12	{KA 2 C}

MCRJ:13	{KA 1 C}	MCTR1:K	{GA 0 C}
MCRJ:2	{KA 1 C}	MCTR1:L	{AD 4 C}
MCRJ:3	{KA 0 B}	MCTR1:M	{AD 4 C}
MCRJ:4	{KA 1 B}	MCTR2:A	{DB 3 C}
MCRJ:5	{KA 1 C}	MCTR2:B	{DB 3 C}
MCRJ:6	{KA 0 C}	MCTR2:C	{DB 3 C}
MCRJ:7	{KA 1 C}	MCTR2:D	{DB 3 C}
MCRJ:8	{KA 1 C}	MCTR2:E	{DB 3 C}
MCRJ:9	{KA 2 C}	MCTR2:F	{DB 2 B}
MCRS:A	{IF 2 C}	MCTR2:G	{DB 2 B}
MCRS:B	{IF 3 C}	MCTR3:A	{DG 1 D}
MCRW:A	{KB 1 D}	MCTR3:B	{DG 1 D}
MCRW:B	{KB 1 D}	MCTR3:C	{DG 1 D}
MCRW:C	{KB 1 D}	MCTR3:H	{DG 1 C}
MCRW:D	{KB 1 D}	MCTR4:A	{DG 2 D}
MCSL1:A	{CC 2 C}	MCTR4:B	{DG 2 D}
MCSL1:B	{HB 2 D}	MCTR4:D	{DG 1 D}
MCSL1:C	{HB 3 B}	MCTR4:E	{DG 1 D}
MCSL1:D	{HB 2 B}	MCTR4:F	{DG 2 D}
MCSL1:E	{HB 2 B}	MCTR4:G	{DG 2 D}
MCSL1:F	{HD 1 D} {HE 3 D}	OBTBJ:A	{HD 3 C}
MCSL1:G	{CC 1 B}	OBTBJ:C	{HD 3 E}
MCSL1:H	{HB 0 C}	OFRFJ:A	{GC 1 B}
MCSL1:J	{HB 0 C}	OFRFJ:B	{GC 1 D}
MCSL1:L	{HD 0 D} {HE 1 D}	OFRS:A	{IF 2 D}
MCSL1:M	{BA 3 C}	OFSL:A	{KC 2 D}
MCSL2:A	{KB 0 B} {KB 0 D} {KC 2 C}	OFSL:B	{KC 2 D}
MCSL2:B	{KB 1 B} {KB 0 D} {KC 2 C}	OFSL:C	{KC 2 D}
MCSL2:C	{KB 0 B} {KB 0 D} {KC 3 C}	OFSL:D	{KC 2 D}
MCSL2:D	{KB 0 B} {KB 0 D} {KC 3 C}	OFSL:E	{KC 3 D}
MCSL2:E	{CC 0 B}	OFSL:F	{KC 3 D}
MCSL2:F	{CC 0 B}	OFSL:G	{KC 3 D}
MCSL3:A	{HB 0 C}	OFSL:H	{KC 3 D}
MCSL3:C	{AB 0 C}	OFSV:1	{GC 2 B}
MCSL3:D	{HD 0 B} {HE 2 D}	OFSV:2	{GC 2 D}
MCSL3:E	{HD 0 B} {HE 2 D}	OPT1:A	{BF 3 C}
MCSL3:F	{HB 1 B}	OPT1:B	{BF 3 B}
MCSL3:G	{HB 1 C}	OPT1587:A	{XA 1 B}
MCSL3:H	{HB 1 C}	OPT1587:B	{XA 0 B}
MCSL5:B	{HB 1 B}	OPT2:A	{BH 1 D}
MCSL5:C	{HB 2 C}	OPT2:B	{BH 1 D}
MCSL6:A	{GH 2 B} {GH 0 B}	OPT3:A	{BI 3 A}
MCSL6:B	{GH 3 E} {GH 1 D}	OPT3:B	{BI 3 A}
MCSL7:A	{IG 1 C}	OPT4:A	{BE 1 D}
MCSSO:C	{BA 3 C}	OPT4:B	{BE 1 D}
MCSW:A	{JC 0 B}	OPT5:1	{XA 3 A}
MCSW:B	{JC 2 B}	OPT5:2	{XA 3 A}
MCSW:C	{JC 2 C}	PJEN:E	{CB 4 D}
MCSW:D	{JC 1 B}	PJEN:F	{BA 0 C}
MCSW:E	{JC 0 C}	PJEN:G	{CB 1 C}
MCSW:F	{JC 0 C}	PJEN:K	{BG 0 C}
MCSW:G	{JC 1 C}	PJEN:M	{CB 0 C}
MCTL1:C	{BJ 1 B}	PJEN:N	{CB 1 C}
MCTL2:C	{BJ 1 B}	PLSPO:A	{GI 3 D}
MCTR1:A	{DB 3 C} {DC 0 B}	PLSPO:B	{GI 3 B}
MCTR1:B	{DB 3 C} {DC 0 B} {DD 1 B}	PM1:1	{AA 1 B}
MCTR1:C	{GA 2 C}	PM3:1	{AB 1 D}
MCTR1:D	{BC 4 C}	PM3:2	{AA 0 B}
MCTR1:E	{BB 0 C}	PM4:1	{AA 1 C}
MCTR1:F	{BB 0 C}	PM4:2	{AB 1 A}
MCTR1:G	{DB 3 C} {DC 1 D}	PM5:1	{AB 4 C}
MCTR1:H	{DB 3 C} {DC 1 D}	PM5:2	{AA 1 C}
MCTR1:J	{BC 4 C}	PM6:1	{AA 3 B}

PM6:2	{AB 3 C}	RADLR:B	{BD 2 B}
PM7:1	{HB 2 B} {BG 0 B}	RFJRF:A	{GC 0 B}
PM7:2	{AA 1 D}	RFJRF:B	{GC 0 C}
PM7:3	{MA 0 B}	RJDLR:A	{BD 2 B}
PM7:4	{HB 1 B}	RJDLR:B	{BD 2 B}
PM8:1	{AA 1 B}	RSCB:A	{IF 3 C}
PM8:2	{GB 3 B}	RSCB:B	{IF 3 D}
PM8:3	{HB 3 B}	RWBOC:A	{GH 2 B} {GH 3 B} {GH 3 B}
PM8:4	{HB 2 B}	RWBOC:B	{GH 3 C} {GH 2 C} {GH 3 D}
PM9:1	{AB 1 C}	SLBOC:A	{GH 1 B} {GH 1 B} {GH 0 B}
PM9:2	{AB 3 D}	SLBOC:B	{GH 0 C} {GH 1 C} {GH 1 C}
PM9:4	{AA 1 C}	SLOB:A	{HD 3 C}
PM9:6	{AB 1 C}	SLOB:B	{HD 3 C}
PM9:7	{AA 1 C}	SLOB:C	{HD 1 B}
PM9:8	{AB 0 C}	SLOB:D	{HD 2 B}
PSMC:1	{KC 2 D}	SLOB:E	{HD 1 B}
PSMC:10	{KC 2 A}	SLOB:F	{HD 2 D}
PSMC:11	{KC 1 A}	SLOB:G	{KB 0 B}
PSMC:12	{KC 1 D}	SLOB:H	{KB 1 B}
PSMC:13	{KC 2 D}	SLOB:J	{KB 0 B}
PSMC:2	{KC 1 D}	SLOB:K	{KB 0 B}
PSMC:3	{KC 0 B}	SLOB:L	{IG 0 B}
PSMC:4	{KC 2 A}	SLOB:M	{IG 1 B}
PSMC:5	{KC 1 D}	SLRH:A	{KC 3 C}
PSMC:6	{KC 0 D}	SLRH:B	{KC 3 C}
PSMC:7	{KC 1 D}	SLRH:C	{KC 2 C}
PSMC:8	{KC 1 D}	SLRH:D	{KC 2 C}
PSMC:9	{KC 4 C}	SLRW:A	{HE 4 D}
PSMC2:A	{KC 2 C}	SLRW:B	{GH 2 B}
PSMC2:B	{KC 3 C}	SLRW:C	{GH 3 E}
PSMC2:C	{KC 2 C}	SLSK:A	{HE 0 B}
PSMC2:D	{KC 3 C}	SLSK:B	{HE 1 E}
PSOF:A	{KC 2 C}	SLVA:A	{HE 3 B}
PSOF:B	{KC 2 C}	SLVA:B	{HE 3 B}
PSOF:C	{KC 3 C}	SLVA:C	{HE 3 C}
PSOF:D	{KC 3 C}	SPMC:1	{KB 2 D}
PSOF:E	{KC 1 C}	SPMC:10	{KB 3 B}
PSOF:F	{KC 1 C}	SPMC:11	{KB 2 B}
PSOF:G	{KC 1 C}	SPMC:12	{KB 3 D}
PSOF:H	{KC 1 C}	SPMC:13	{KB 2 D}
PSOF:J	{KC 0 B}	SPMC:2	{KB 3 D}
PSOF2:A	{KC 1 C}	SPMC:3	{KB 2 B}
PSOF2:B	{KC 1 C}	SPMC:4	{KB 2 B}
PSOF2:C	{KC 2 C}	SPMC:5	{KB 2 D}
PSOF2:D	{KC 2 C}	SPMC:6	{KB 3 D}
PSOF2:E	{KC 0 C}	SPMC:7	{KB 4 D}
PSOF2:F	{KC 1 C}	SPMC:8	{KB 2 D}
PSOF2:G	{KC 1 C}	SPMC:9	{KB 4 C}
PSOF2:H	{KC 1 C}	SPMC2:A	{KB 1 C}
PSRJ:1	{KC 1 B}	SPMC2:B	{KB 1 C}
PSRJ:10	{KC 2 A}	SPMC2:C	{KB 1 C}
PSRJ:11	{KC 1 A}	SPMC2:D	{KB 1 D}
PSRJ:12	{KC 1 B}	SPRJ:1	{KB 3 C}
PSRJ:13	{KC 1 B}	SPRJ:10	{KB 3 B}
PSRJ:2	{KC 1 B}	SPRJ:11	{KB 2 B}
PSRJ:3	{KC 1 A}	SPRJ:12	{KB 3 C}
PSRJ:4	{KC 2 A}	SPRJ:13	{KB 3 C}
PSRJ:5	{KC 3 B}	SPRJ:2	{KB 3 C}
PSRJ:6	{KC 2 B}	SPRJ:3	{KB 2 B}
PSRJ:7	{KC 3 B}	SPRJ:4	{KB 2 B}
PSRJ:8	{KC 2 B}	SPRJ:5	{KB 2 C}
PSRJ:9	{KC 3 B}	SPRJ:6	{KB 2 C}
RADLR:A	{BD 2 B}	SPRJ:7	{KB 2 C}

SPRJ:8	{KB 2 C}	SP0R1	{DP 2 D}
SPRJ:9	{KB 3 C}	SP0R-G	{AC 0 D}
TLTL:A	{GF 1 B}	SP0T	{BF 1 D}
TLTL:B	{GF 1 B}	SP0TS	{HA 3 C}
TLTL:C	{GF 3 B}	SP0V	{CD 0 B}
TLTL:D	{GF 3 B}	SP0X	{AD 4 D}
TLTL:E	{GF 3 D}	SP0X_1	{AD 3 D}
TRSN:A	{DC 2 D}	SP0X_2	{BI 1 B}
TRSN:B	{DC 2 D}	SP0XD	{IE 3 B}
TRSN:C	{DC 2 D}	SP0XE	{AD 3 D}
TRTBP:A	{DB 4 C} {DG 0 C} {DF 3 D}	SP0XL	{GB 1 D}
TRTBP:B	{DB 4 E} {DG 0 C} {DF 4 D}	SP0Y	{DG 0 D}
TRTBP:C	{DF 3 D}	SP112C	{MA 1 C}
TRTT:A	{BC 4 B}	SP113C	{MA 1 C}
TRTT:B	{BC 4 B}	SP115	{GF 1 C}
SP0_1	{AC 3 C}	SP115_1	{GF 2 B}
SP0A	{GH 1 D}	SP116	{GF 2 C}
SP0A_1	{GH 3 D}	SP116_1	{GF 3 A}
SP0-B	{GF 0 D}	SP116A	{DE 2 D}
SP0B	{AC 2 C}	SP131	{HE 3 B}
SP0B1	{HB 2 D}	SP131_1	{IE 0 D}
SP0B2	{HD 0 D} {HE 1 C}	SP131_2	{HD 3 D}
SP0B3	{HE 3 D}	SP132	{HD 2 C}
SP0B3_1	{HD 2 D}	SP135	{HD 3 B}
SP0B3_2	{HD 2 D}	SP137-A	{GG 2 C} {GH 3 B} {GH 1 B}
SP0B-PT	{DP 3 C}	SP141A	{GB 0 B}
SP0C	{AC 3 B}	SP141A-5	{HB 0 B}
SP0C_1	{IF 2 D}	SP141A-PT	{DP 3 B}
SP0C_3	{HD 3 D}	SP141B	{IF 1 C}
SP0C_4	{FE 2 D}	SP150	{HA 0 B}
SP0C_6	{BC 2 D}	SP163	{HB 2 C}
SP0C1	{HE 3 C}	SP17B	{CD 2 B}
SP0C-24	{AC 0 B}	SP17B_1	{CC 2 C}
SP0C-7	{IE 3 D}	SP17B_2	{CI 1 E}
SP0C-7_1	{AC 1 C}	SP17F	{DG 0 D}
SP0C-9	{IE 2 D}	SP18E	{CB 1 C}
SP0D	{GD 4 D}	SP196AA	{AA 1 D}
SP0D_1	{GI 3 C}	SP196AB	{AB 1 D}
SP0D-A_1	{BD 2 C}	SP196D	{CC 3 B}
SP0D-A_2	{BD 3 B}	SP196DR	{CC 2 C}
SP0D-B	{BD 2 C}	SP196L	{GA 1 B}
SP0F	{BC 2 D}	SP196X	{FE 1 B}
SP0G_1	{AD 0 C}	SP196X-B	{FE 1 C}
SP0GS	{GI 0 D}	SP1E	{AA 1 D}
SP0H_1	{GD 1 C}	SP284	{AA 3 A}
SP0H_2	{GD 2 C}	SP284-A	{BB 0 B}
SP0H-C	{AC 2 D}	SP284D	{DB 0 A}
SP0L	{HE 1 D}	SP32SP-L	{GI 1 C}
SP0L-B	{GG 2 D} {GH 1 C} {GH 3 C}	SP336	{IB 1 C}
SP0M	{GE 1 D}	SP33SP	{GI 0 C}
SP0M_1	{GC 2 C}	SP35	{GE 0 C}
SP0M_2	{GC 3 C}	SP35_1	{GE 1 B}
SP0M_3	{GE 3 B}	SP35_2	{GE 0 B}
SP0M_4	{GC 0 C}	SP364	{CB 3 C}
SP0M-A	{GE 1 D}	SP37	{GE 2 C}
SP0M-D	{GF 2 D}	SP37_1	{GE 1 B}
SP0M-D_1	{GF 3 D}	SP37_2	{GE 3 B}
SP0MD_2	{GF 2 D}	SP370	{IF 0 C}
SP0M-E	{GF 1 D}	SP370A	{HE 0 C}
SP0P1	{HA 1 C}	SP384	{GP 0 C}
SP0R	{FA 3 C}	SP385	{GP 0 D}
SP0R_1	{FA 0 D}	SP387	{GP 1 C}
SP0R_2	{FA 1 C}	SP400	{XA 0 D}

SP400_1	{XA 0 C}	SP499RF+_1	{KB 2 C}
SP400_2	{BF 3 B}	SP501	{IE 1 B}
SP400_3	{BE 1 D}	SP505	{IE 0 C}
SP400_BB	{BI 3 B}	SP52_1	{GC 2 B}
SP400-B	{BH 1 D}	SP52_2	{GC 3 B}
SP400-L	{XA 0 D}	SP52_3	{GC 0 C}
SP401	{XA 1 D}	SP552	{BB 4 B}
SP401_1	{XA 1 C}	SP554	{BB 4 B}
SP401_2	{BF 3 C}	SP558	{BB 3 B}
SP401_3	{BE 1 D}	SP559L	{CC 0 D} {CI 0 D}
SP401_BB	{BI 3 B}	SP56	{GD 2 B}
SP401-B	{BH 1 D}	SP562A	{BA 2 B}
SP401-L	{XA 1 D}	SP563A	{BA 2 C}
SP406	{XA 3 D}	SP564A	{BA 1 C}
SP406_1	{XA 3 C}	SP56F	{GA 2 D}
SP406_2	{CC 0 C}	SP56F_1	{GD 2 B}
SP406_A	{CI 2 C}	SP56F_2	{GD 3 D}
SP406_BB	{BI 2 B}	SP573	{DP 1 C}
SP406-A	{XA 3 A}	SP59	{GI 3 C}
SP406-F	{XA 3 B}	SP592A	{CB 2 C}
SP406-F_1	{XA 2 D}	SP592B	{CB 1 C}
SP406-J	{XA 3 B}	SP597	{BA 2 C}
SP406-K	{XA 3 C}	SP639	{DP 1 C}
SP406-L	{XA 3 D}	SP639A	{DP 2 B}
SP406-M	{XA 3 B}	SP639-B	{DP 3 B}
SP406-N	{CD 3 C}	SP700	{IC 2 D}
SP407	{XA 3 D}	SP710	{IE 3 B}
SP407_1	{XA 3 C}	SP75	{GB 1 B}
SP407_2	{CC 0 C}	SP774	{EA 2 B}
SP407_A	{CI 2 C}	SP817_1	{DB 2 D}
SP407_BB	{BI 2 B}	SP817_2	{DB 2 C}
SP407-A	{XA 3 A}	SP817_3	{DB 2 C}
SP407-F	{XA 3 B}	SP817_4	{DB 3 C}
SP407-F_1	{XA 4 D}	SP817_5	{DB 3 C}
SP407-J	{XA 3 B}	SP817_6	{DB 3 D}
SP407-K	{XA 3 C}	SP818	{DG 1 B}
SP407-L	{XA 3 D}	SP90	{GF 1 C}
SP407-M	{XA 3 B}	SP90_1	{GF 3 B}
SP407-N	{CD 3 C}	SP909B	{CC 3 D}
SP408	{JC 1 C}	SP90A-A	{BH 2 C}
SP409	{JC 1 B}	SP90-C	{GF 1 C}
SP410	{GA 3 D}	SP952	{FA 3 C}
SP410_1	{GF 2 C}	SP952_1	{FA 1 B}
SP410-AB	{BG 1 C}	SP952_2	{FA 1 C}
SP426	{BD 2 C}	SP962	{BA 4 C}
SP472	{FB 1 B}	SP962-D	{BA 3 C}
SP490	{KC 0 B}	SPA124	{DE 1 C}
SP490_1	{KC 0 C}	SPA135A	{DE 1 D}
SP491	{IF 3 B}	SPA140A	{DE 2 D}
SP498LR-	{KC 2 B}	SPA143	{DF 0 A}
SP498LR+	{KC 2 B}	SPA146	{DF 3 B}
SP498RR-	{KC 3 B}	SPA149A	{DE 2 D}
SP498RR+	{KC 3 B}	SPA161	{DF 2 C}
SP499LF-	{KA 2 D} {KB 3 D} {KC 1 D}	SPABS	{AC 2 D}
SP499LF-_1	{KB 4 C}	SPAUX-0	{NA 3 D} {NA 2 D} {NA 1 D}
SP499LF+	{KA 2 D} {KB 3 D} {KC 1 D}	SPNEU	{DF 0 C}
SP499LF+_1	{KB 3 C}	SPV0C	{JB 1 C}
SP499RF-	{KA 2 D} {KB 2 D} {KC 2 D}	SPV196C	{JB 1 C}
SP499RF-_1	{KB 2 C}		
SP499RF+	{KA 1 D} {KB 2 D} {KC 2 D}		

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.

VOLVO

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