

# SERVICE INFORMATION

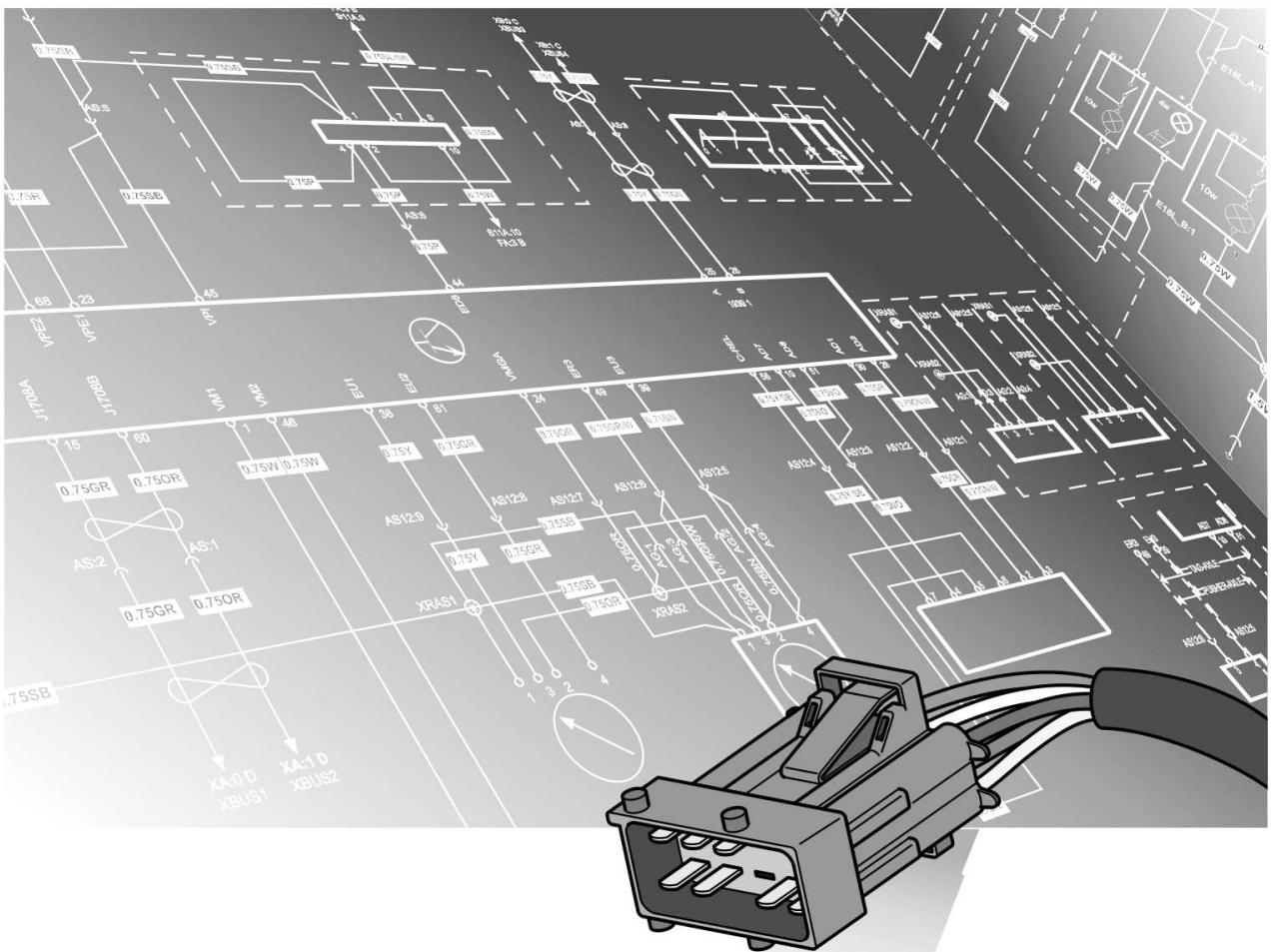
## Trucks

Group **37**

Release **16**

Wiring diagram

UD-HDE



# Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to May 2021.

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

The new edition of this manual will update the changes.

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

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

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

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

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

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

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

**UD Trucks**  
Ageo, Japan

**Order number: 89528029**

**Service Manual group 98 88917383 Service Manual group 98 88917383**

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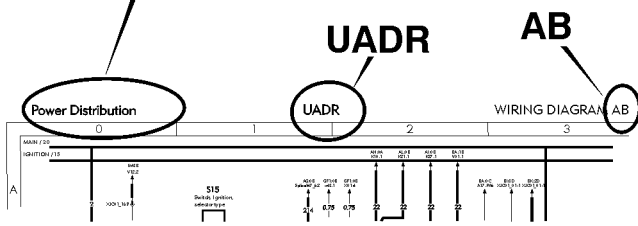
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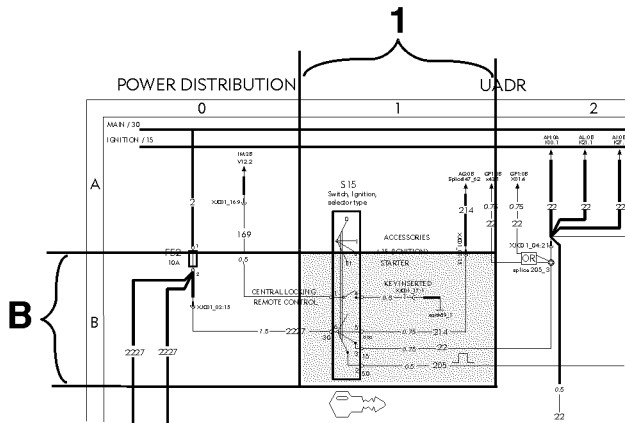
# Example of wiring diagram

## Power Distribution



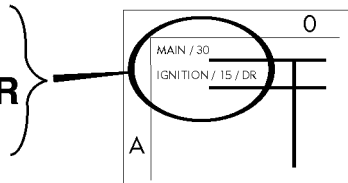
Component wiring diagram title, variant/subtitle and symbol.

Coordinates (B 1).



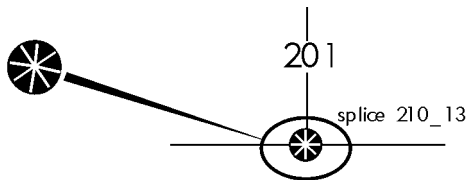
## MAIN / 30

## IGNITION / 15/DR

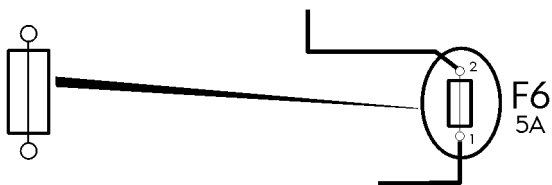


30 Voltage battery, kl.30.

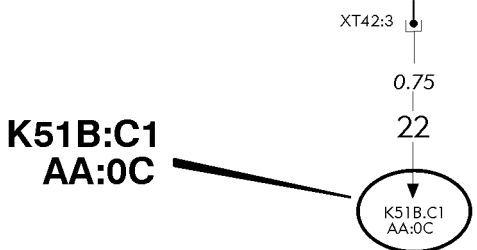
15 Voltage with starter key in drive position and start position, kl.15/kl.DR.



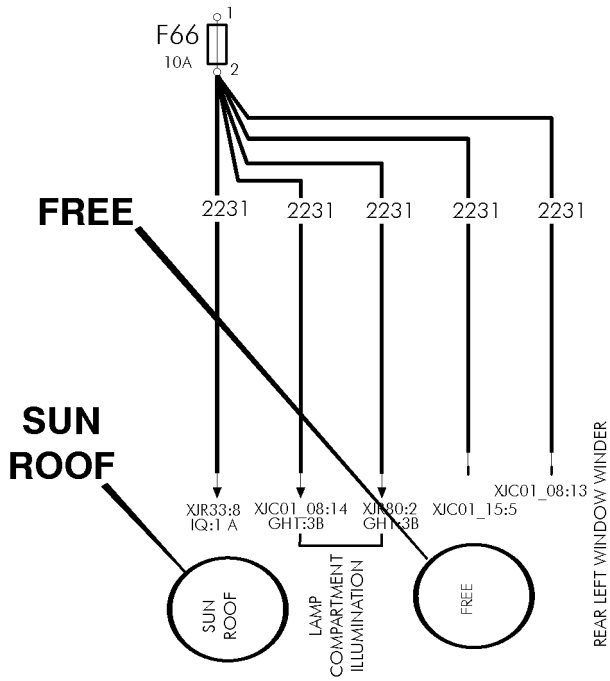
Splice.



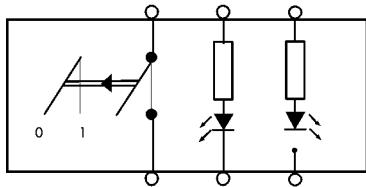
Fuse.



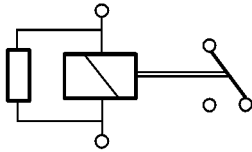
Reference arrow, for diagram AA, coordinates 0 C, component K51B, connector C pin 1.



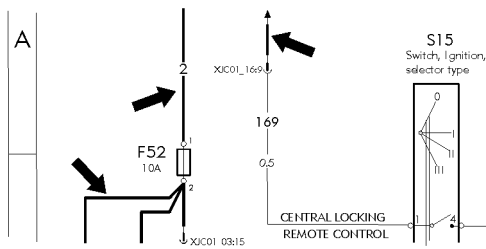
The maximum of variants are drawn, think about that all wires and components are not standard for all markets or vehicle models.



Switch.



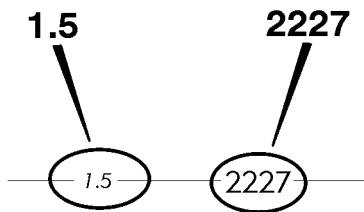
Relay.



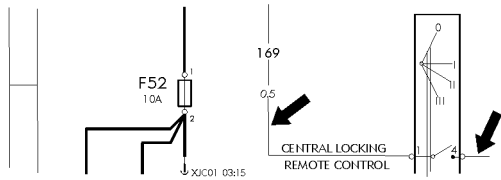
Conductor on circuit card.5166



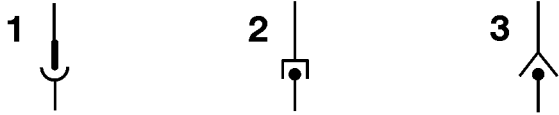
Connector EN terminal 1.



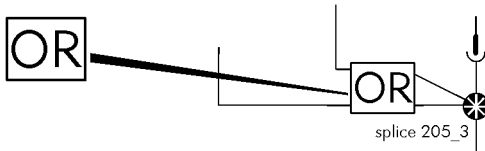
Wire area and wire number.



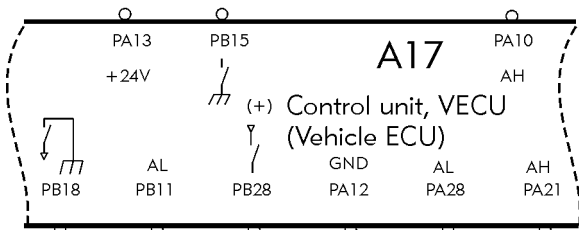
Thin lines, wires.



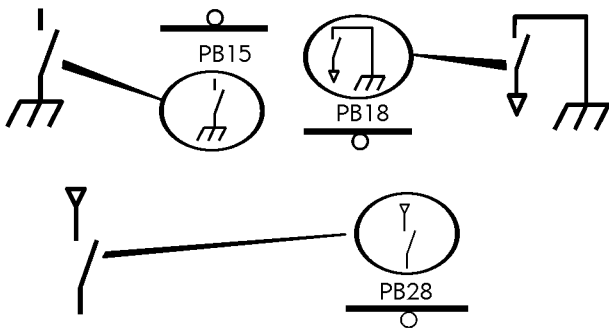
Connector.  
 1 EJB connectors.  
 2 Pass through connector chassis-cab.  
 3 Others.



“OR” It is an exclusive OR (only one possibility) between the different solutions due to the configuration of the vehicle.



Electronic Control unit.  
 The inputs/outputs of ECUs are symbolized in the way described below:



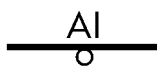
2 alternative of digital output low (set to the ground).



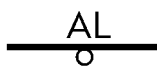
Digital output high (set to 24V, 5V...).



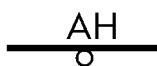
Ground of ECU.



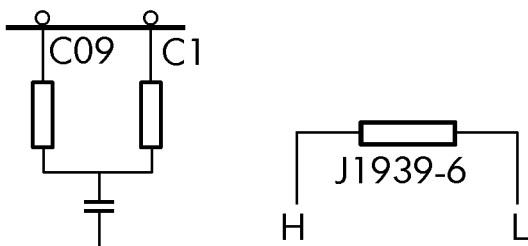
Analog input.



Active low.



Active high.



Ending resistance of communication bus CAN (120 Ω)

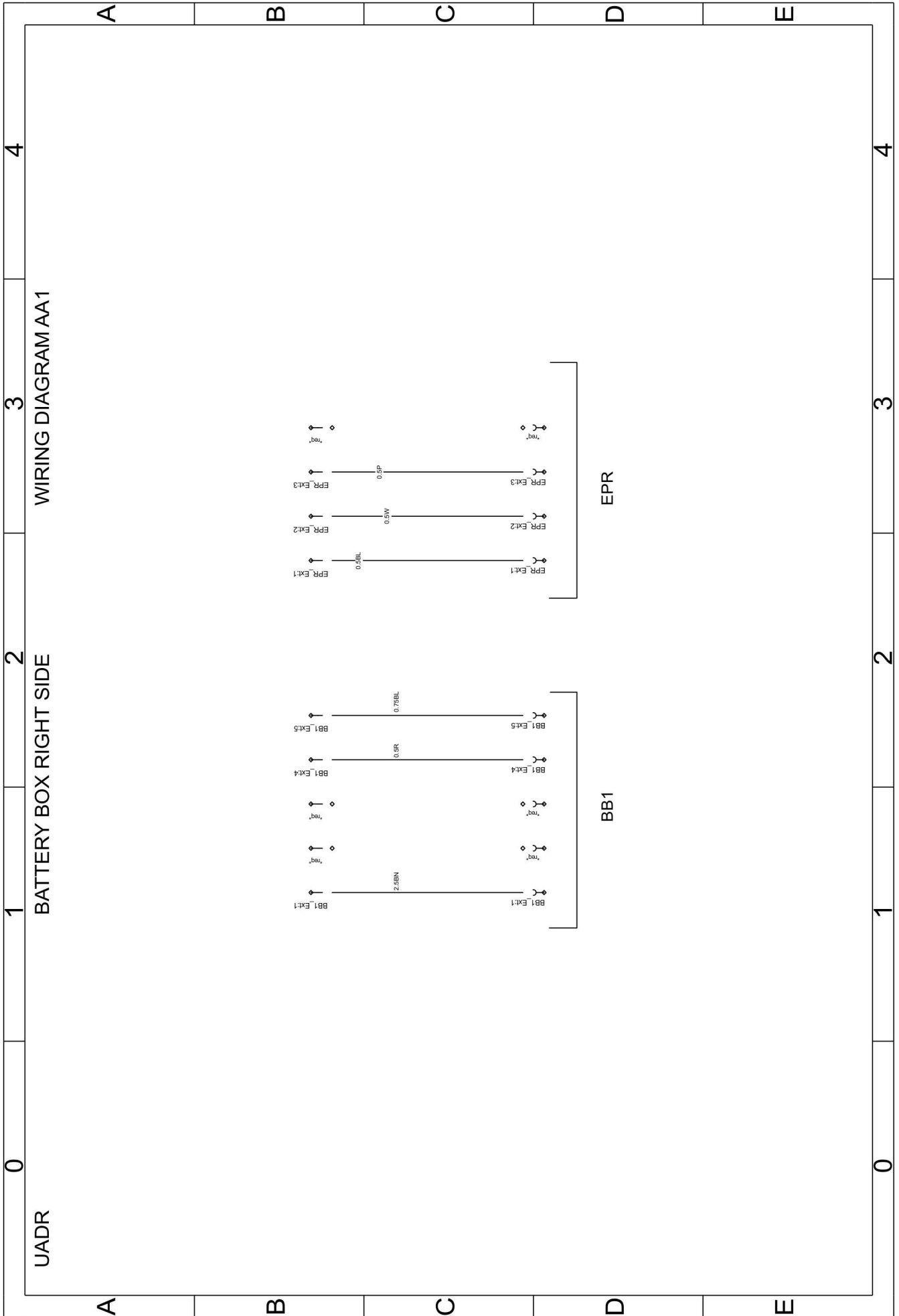
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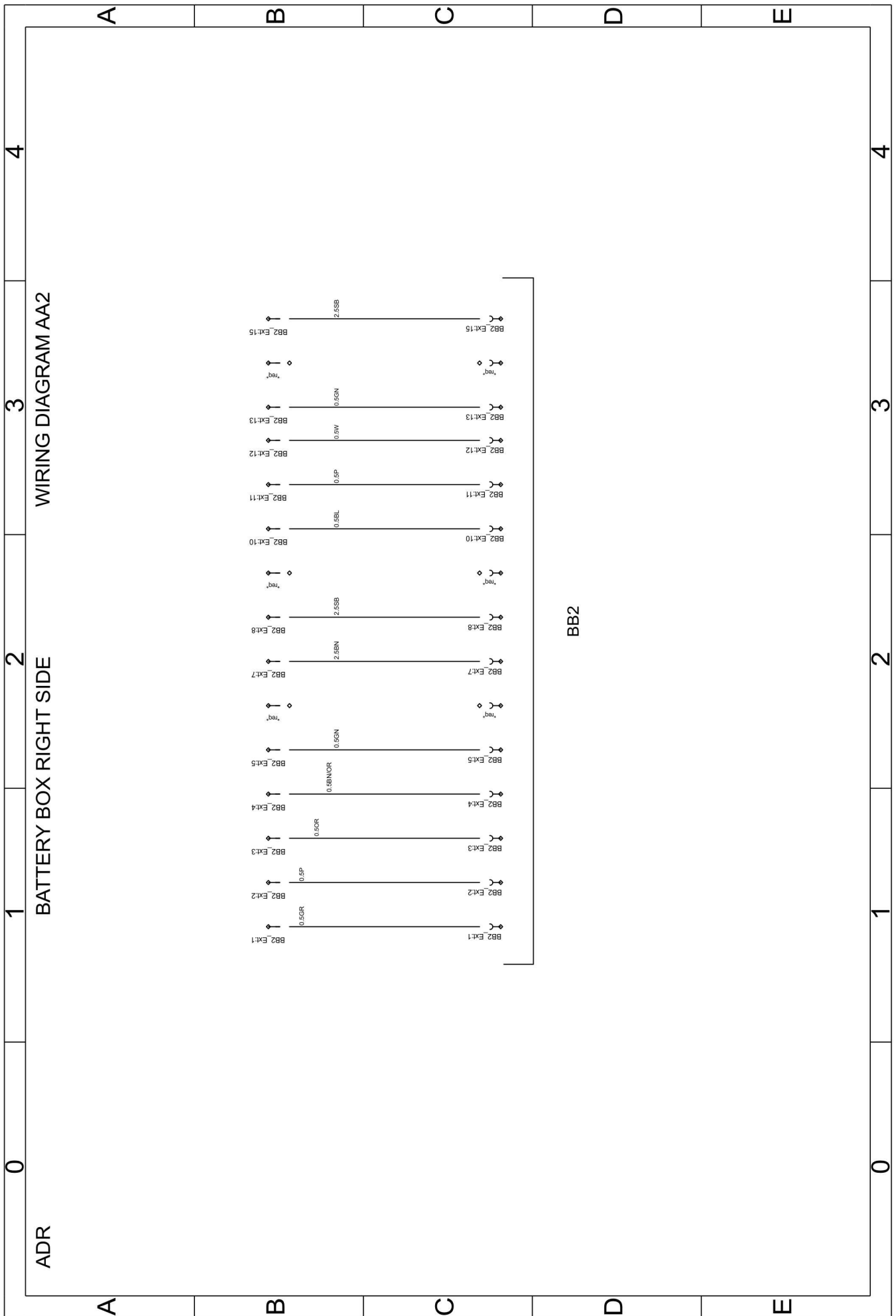
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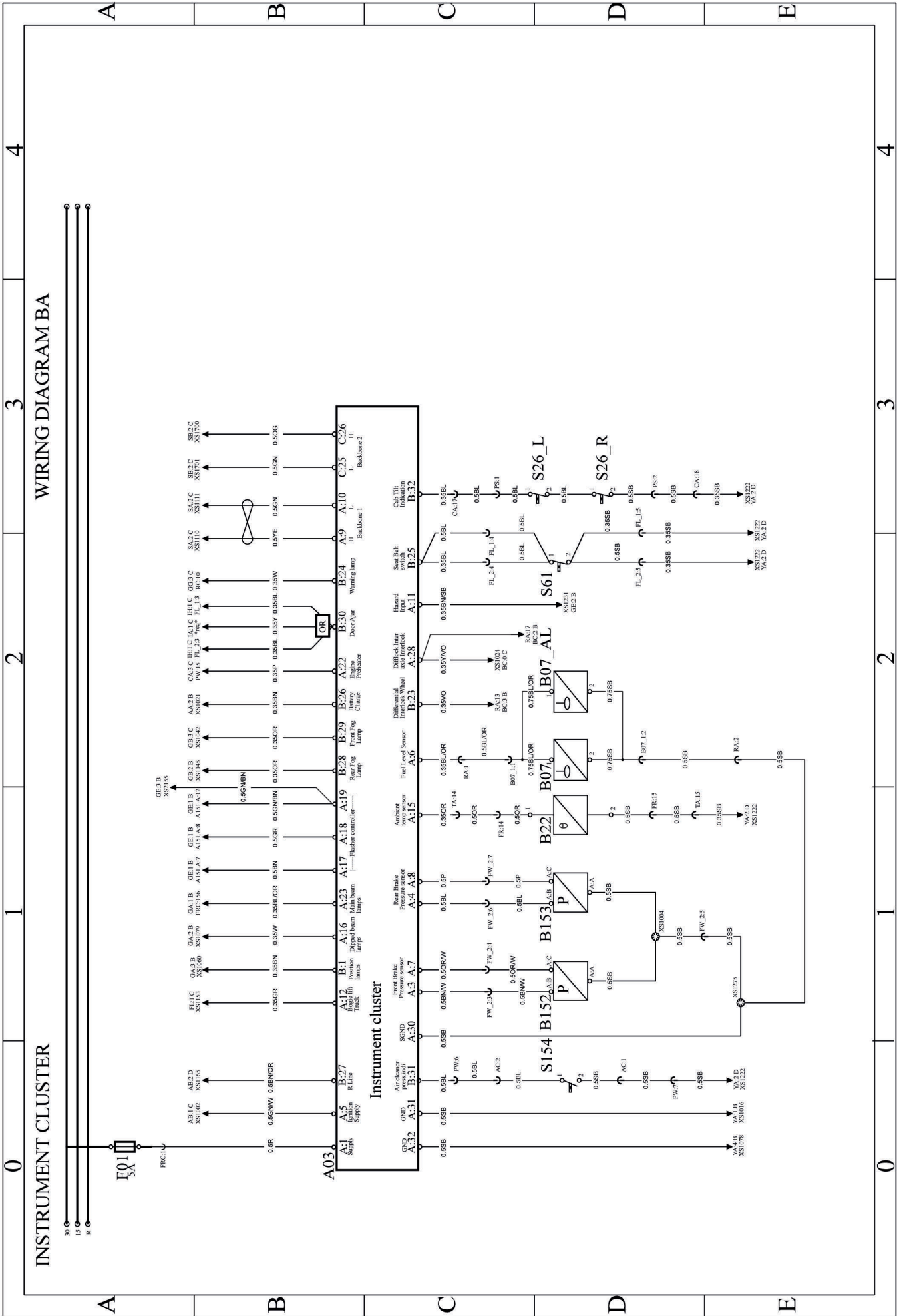


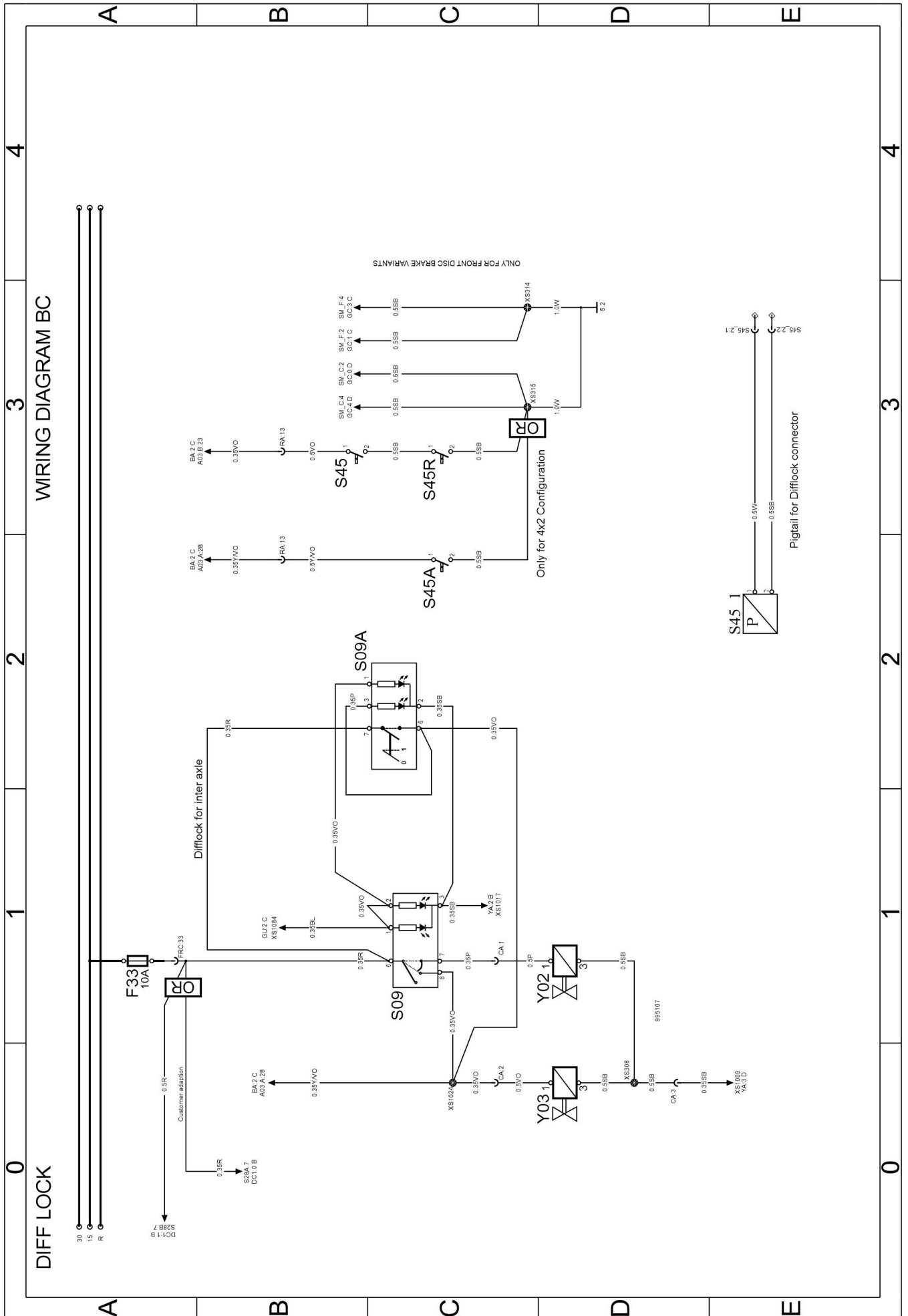














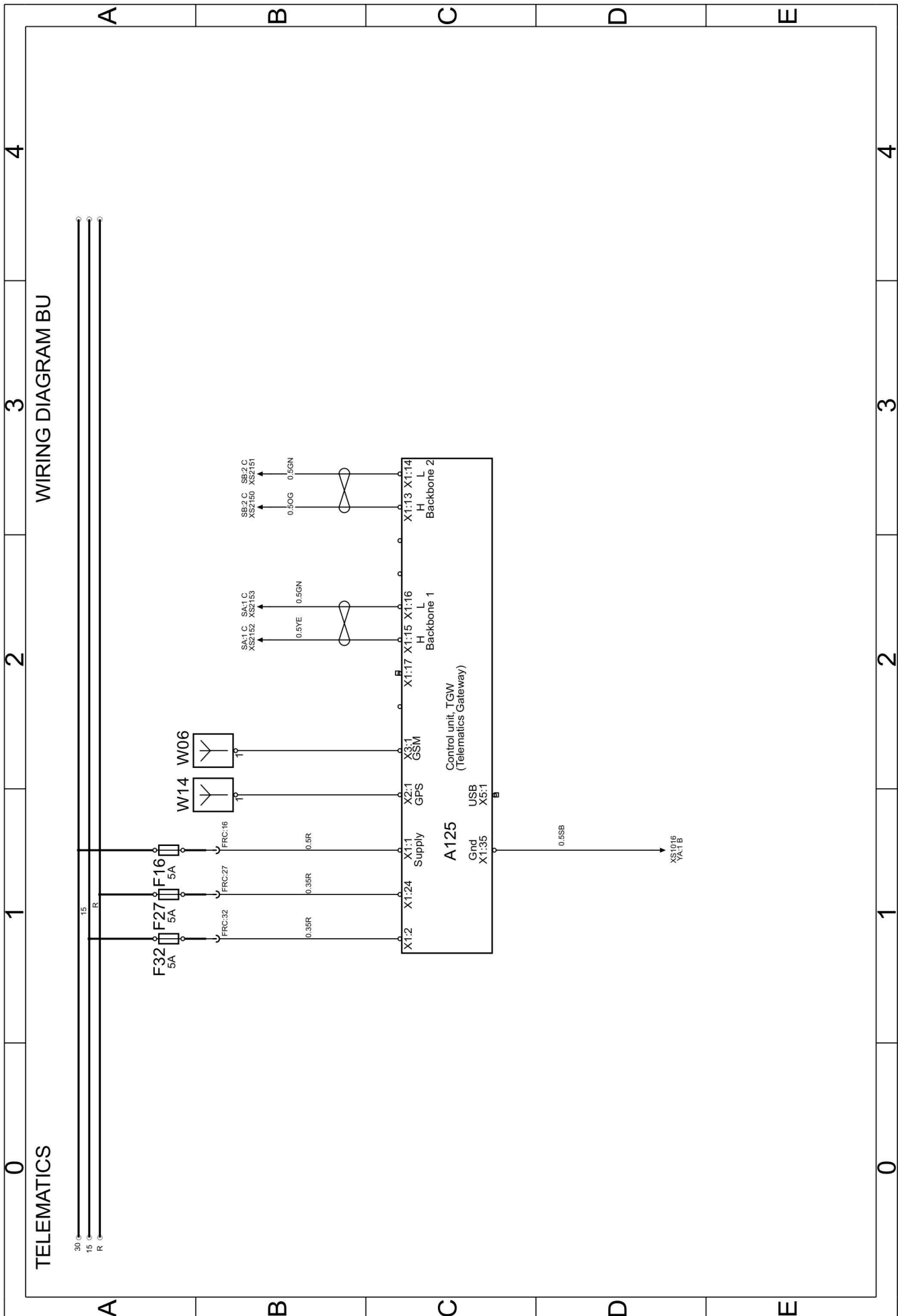


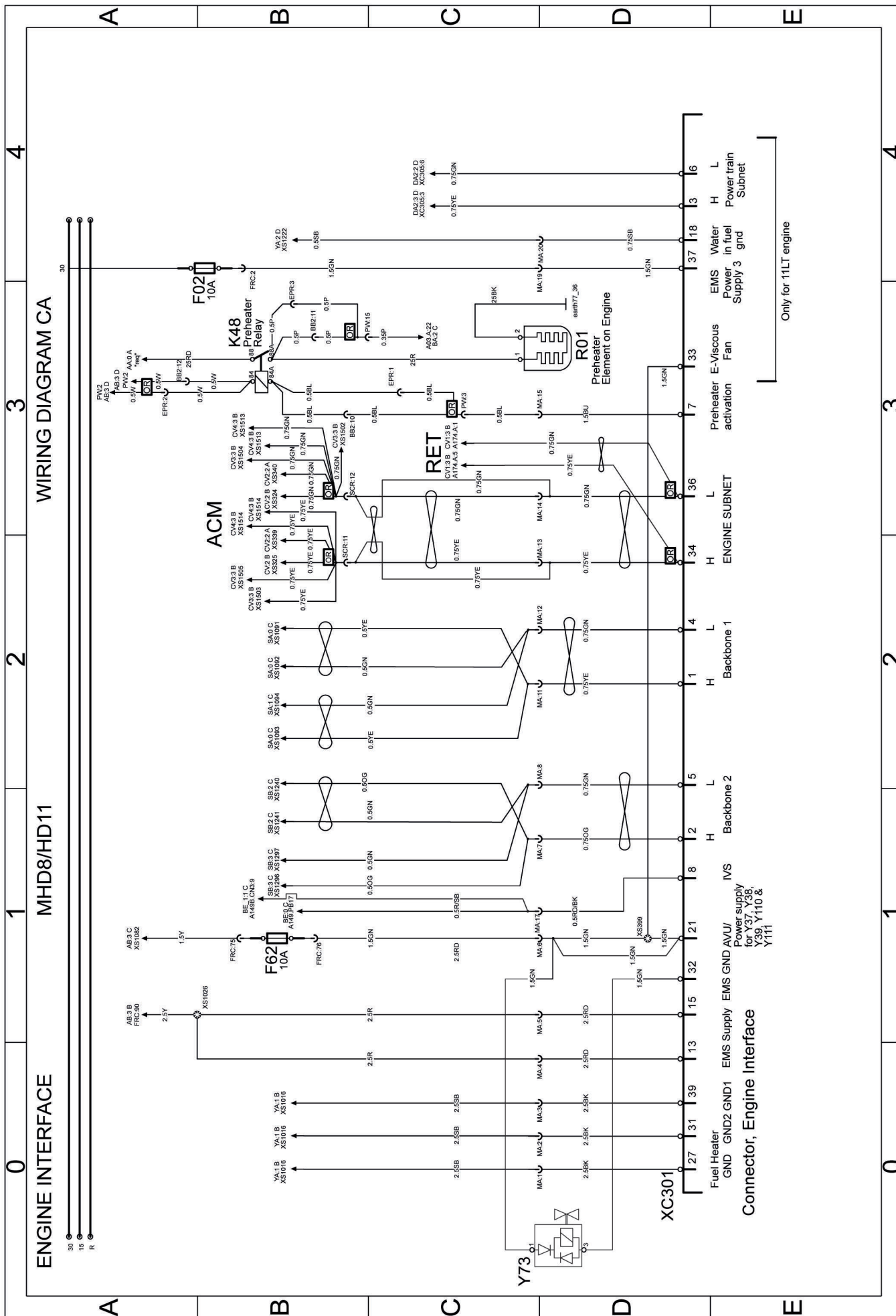


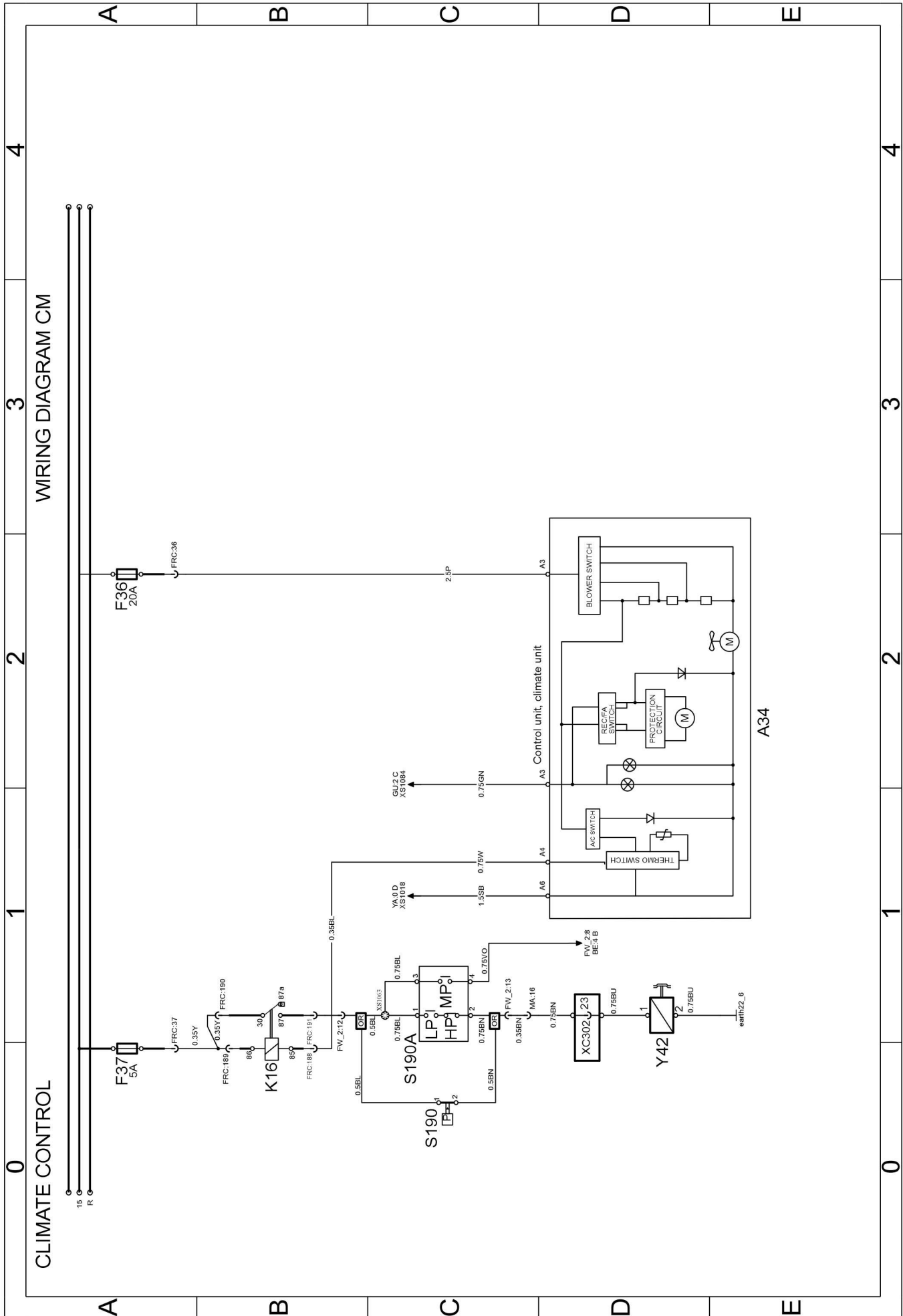




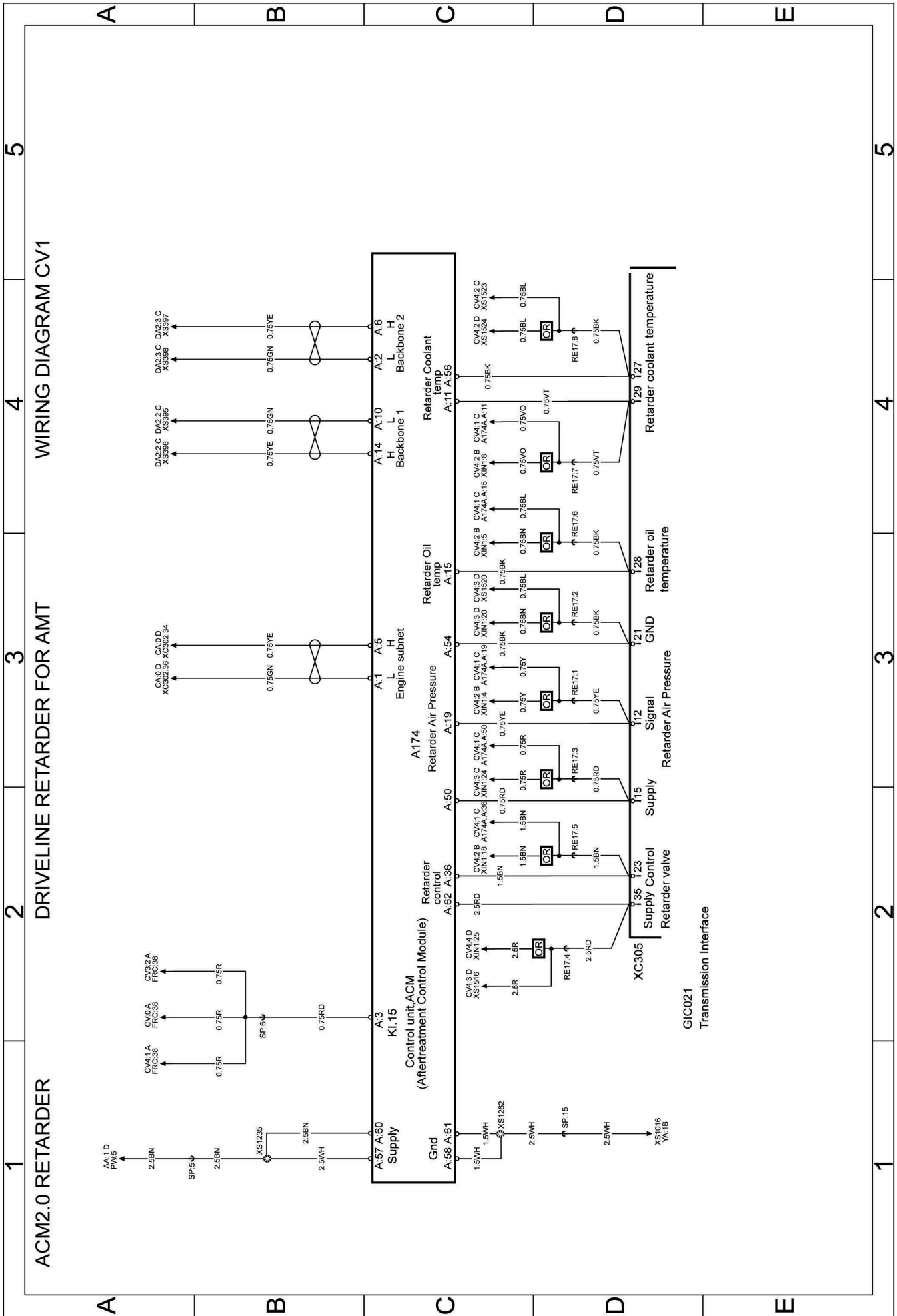






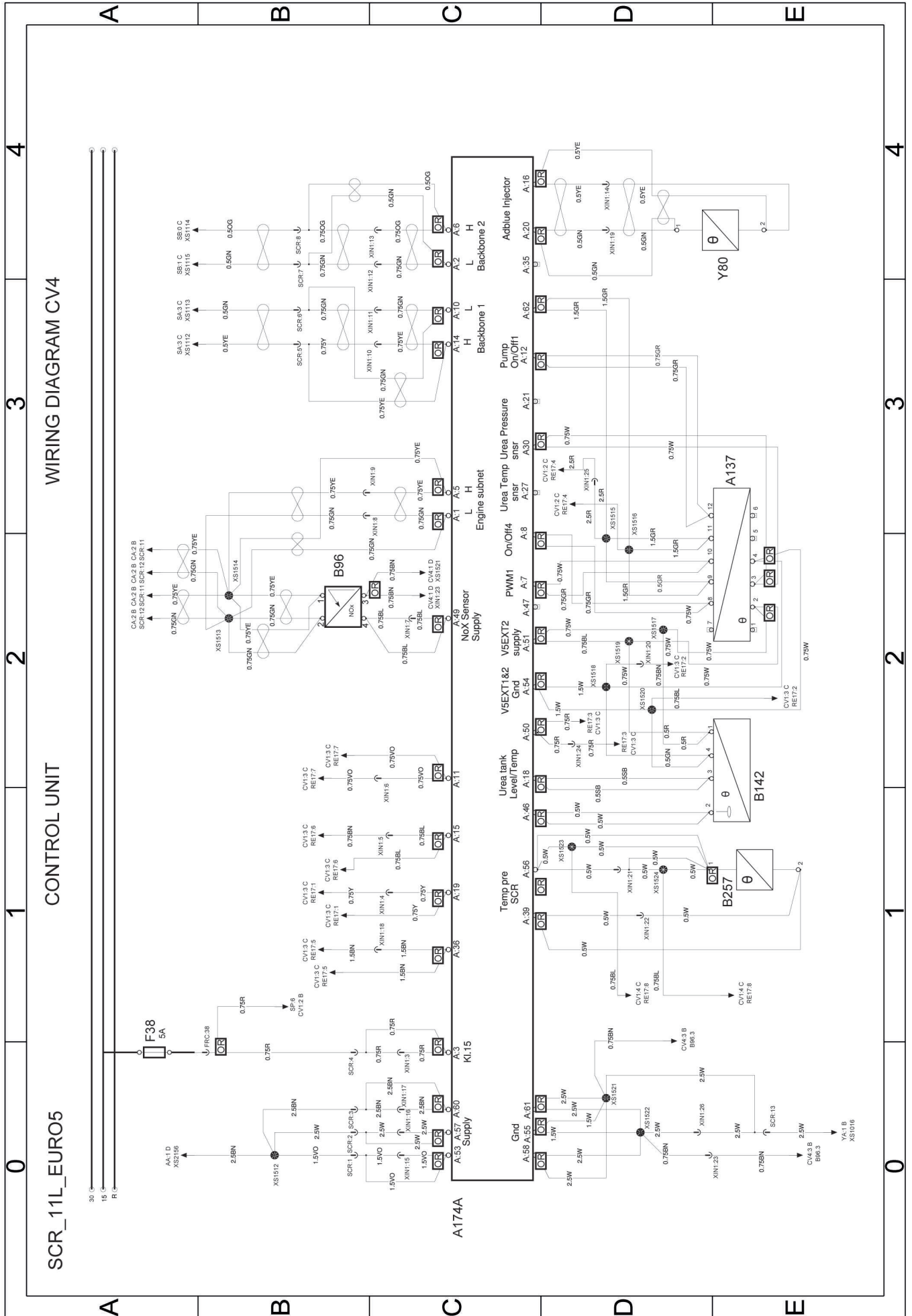


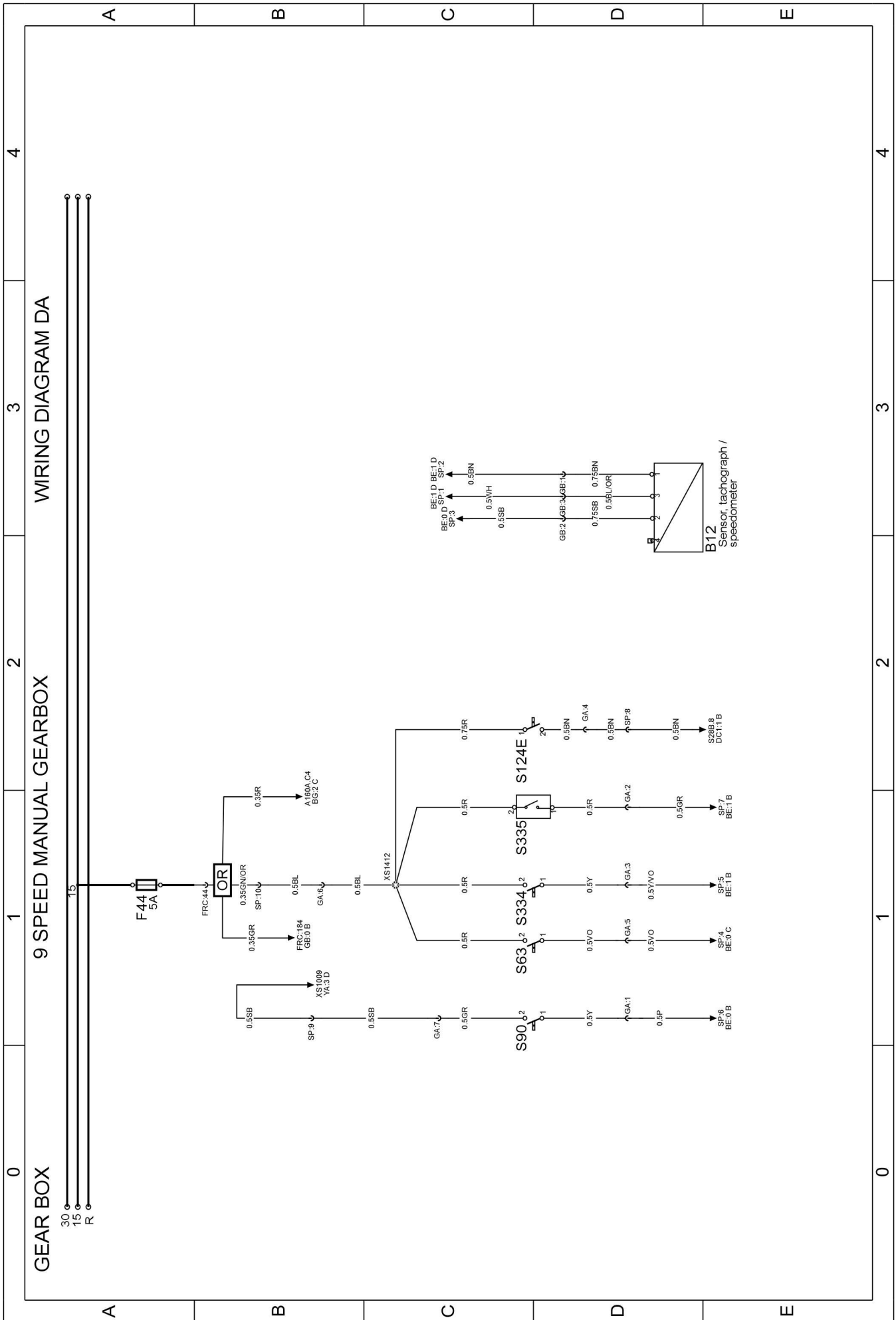




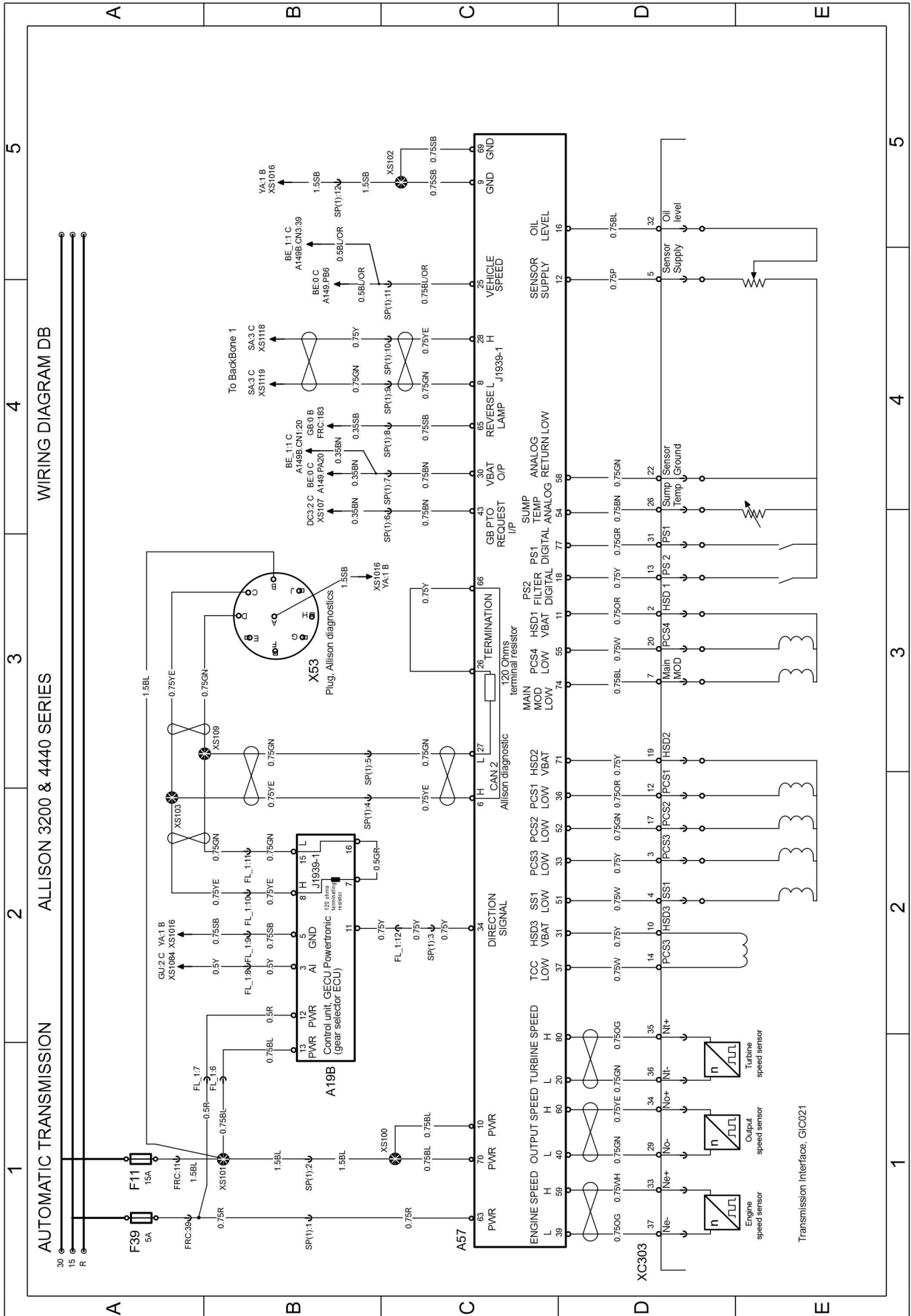


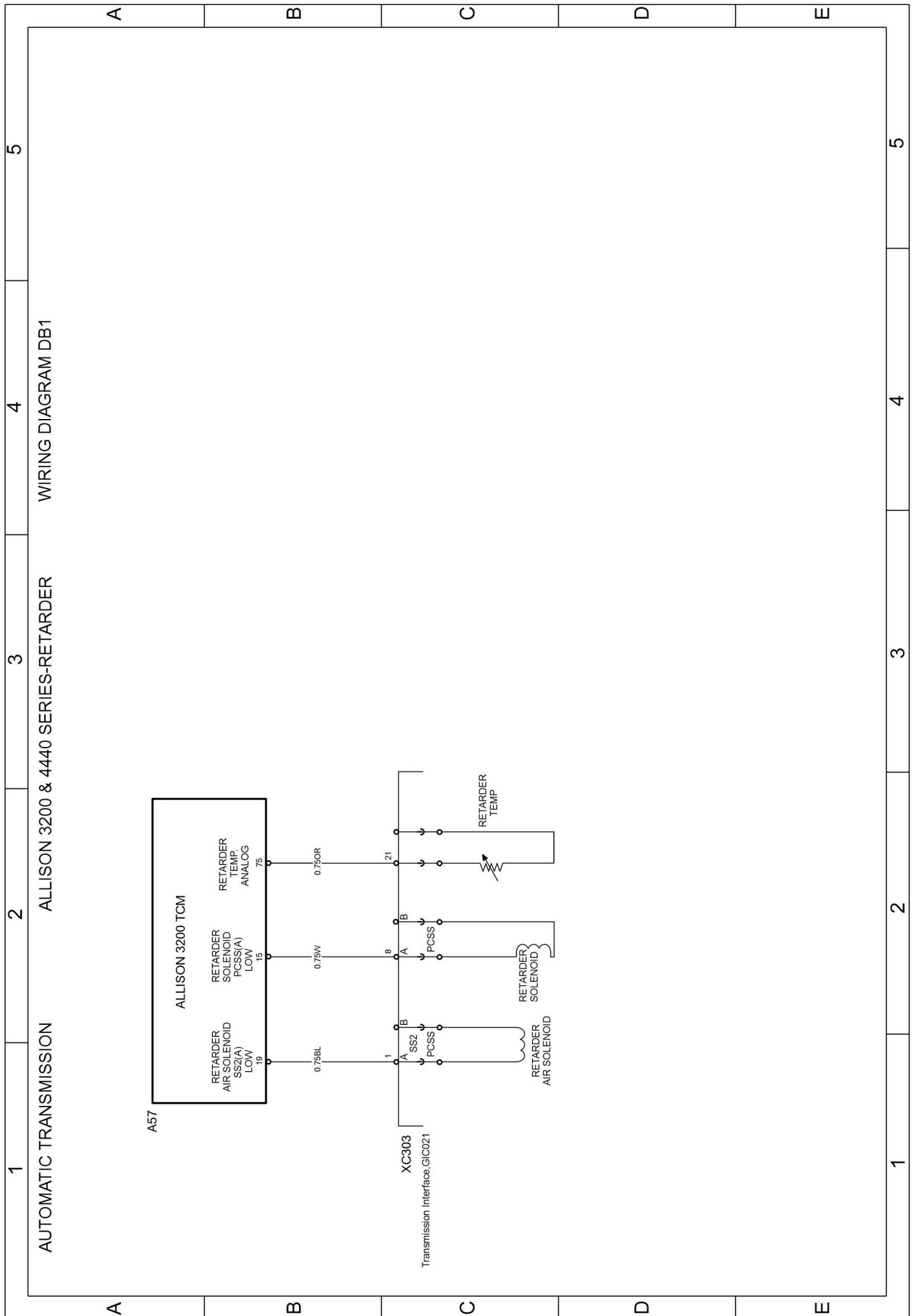


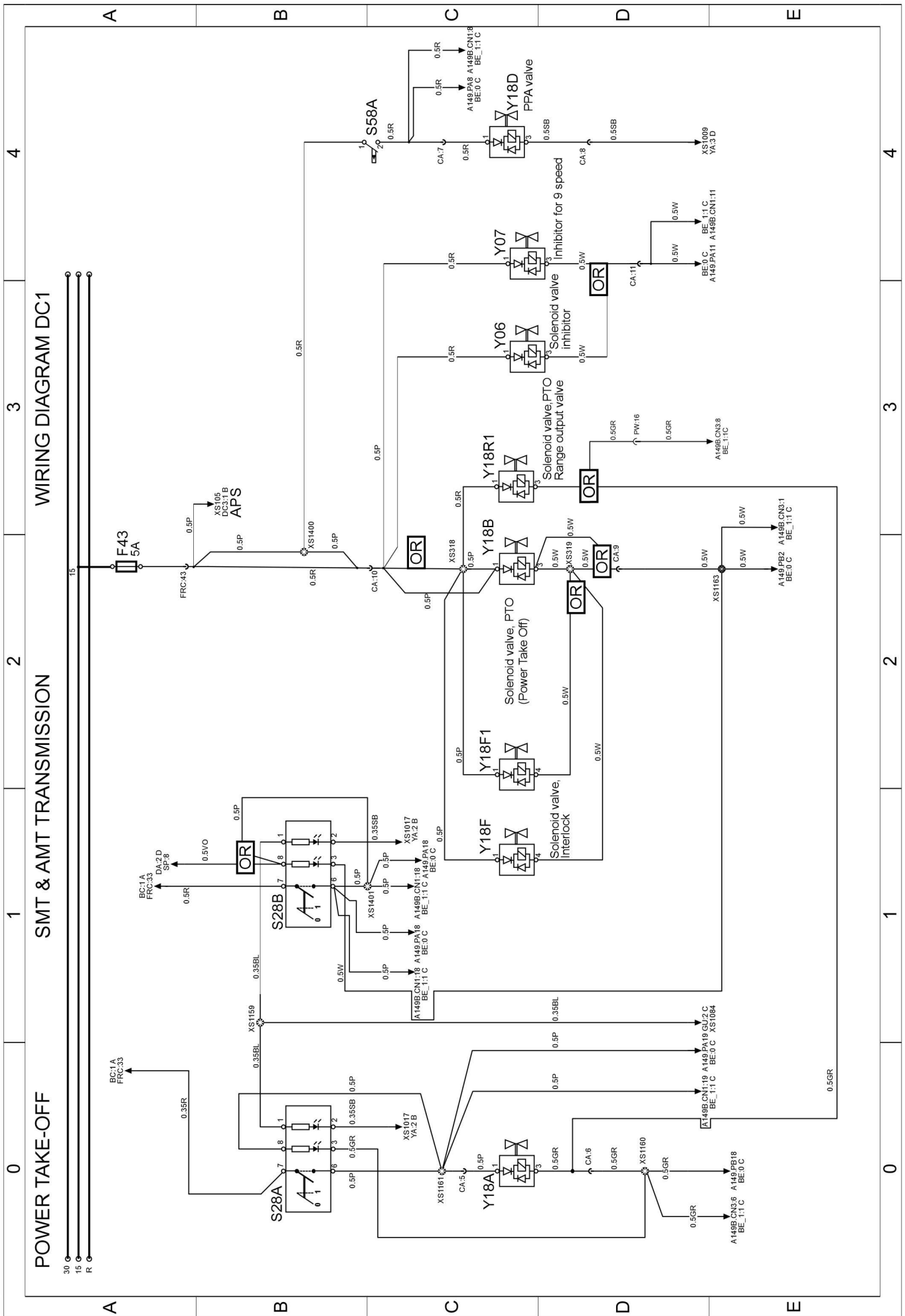


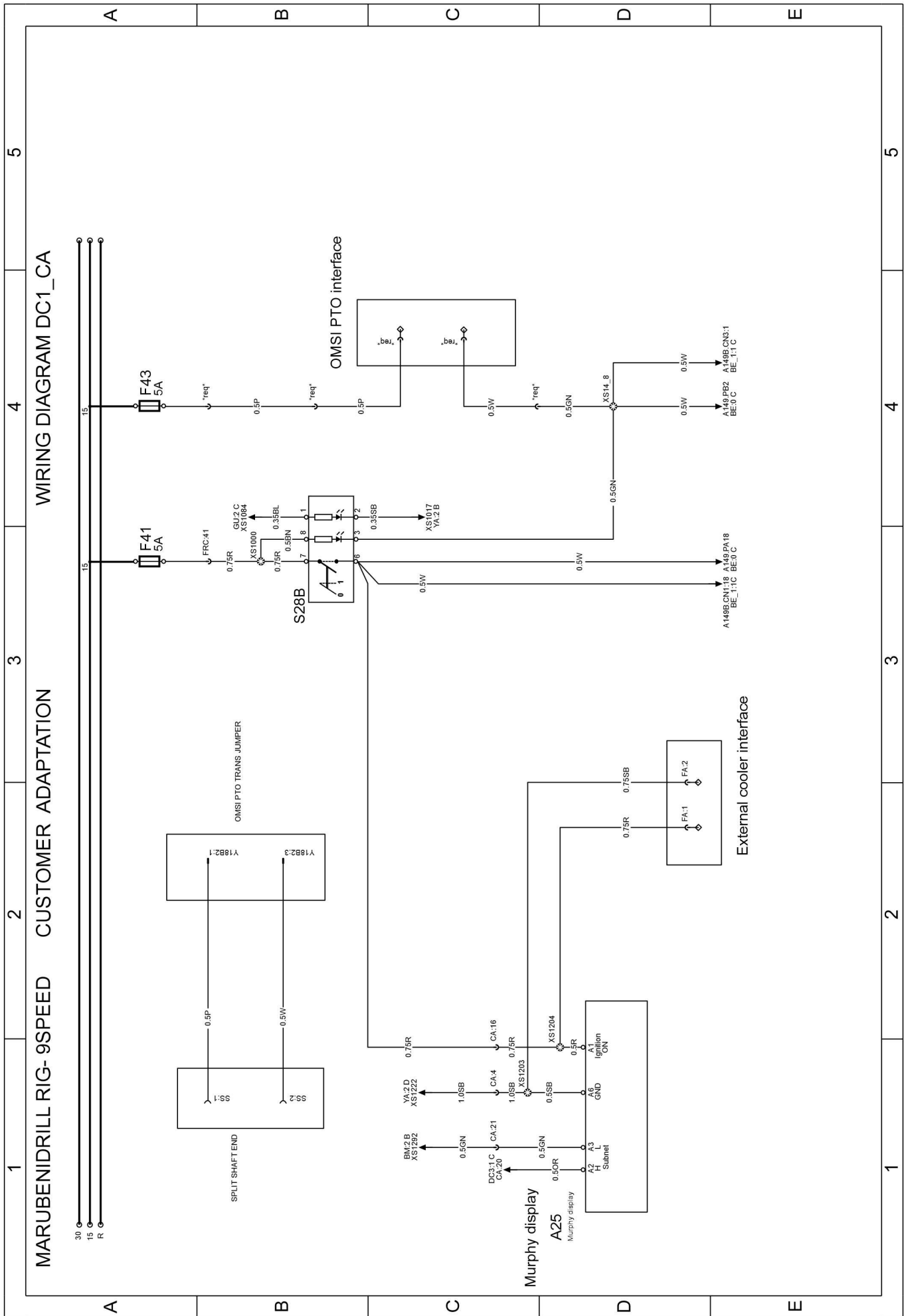


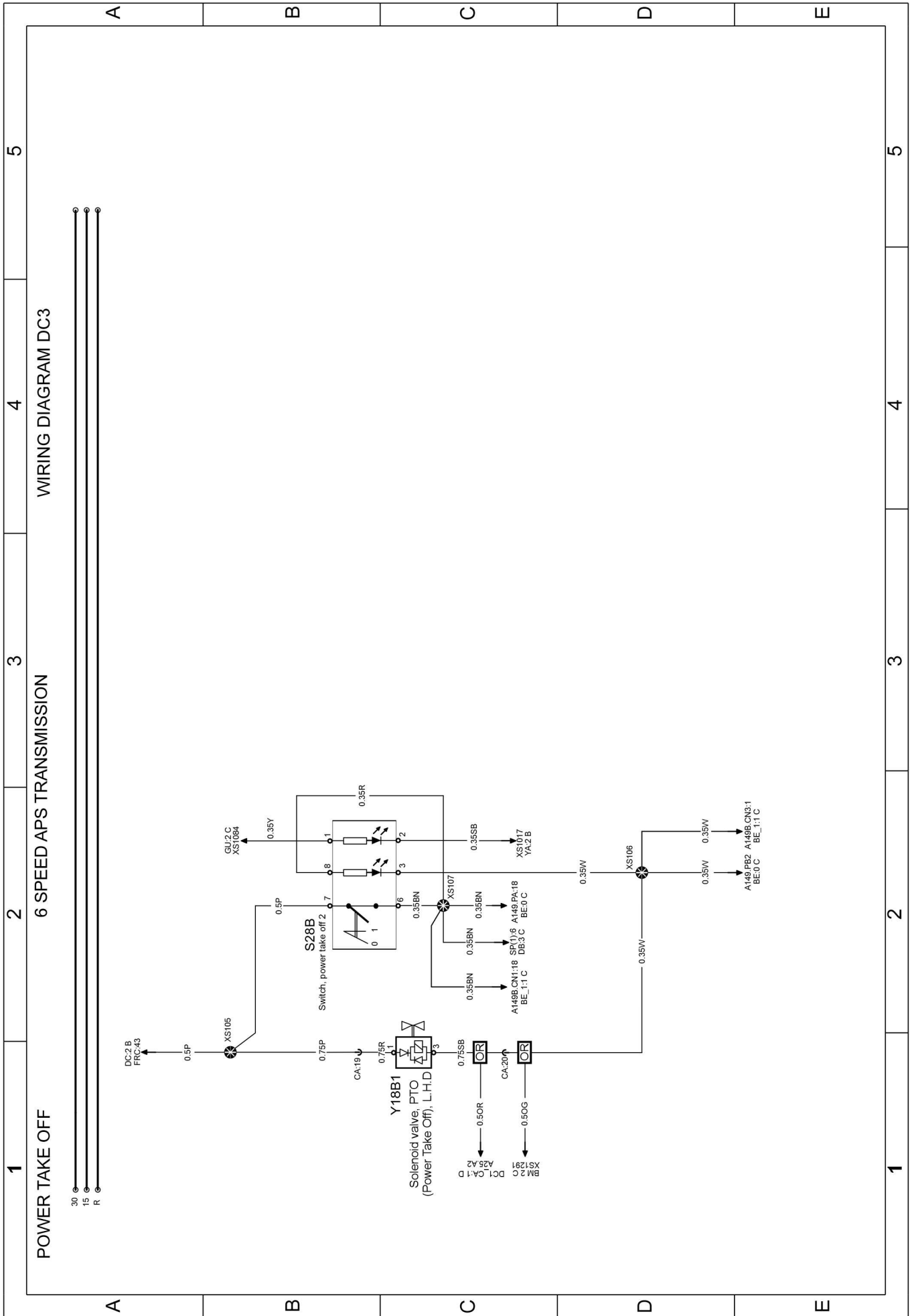


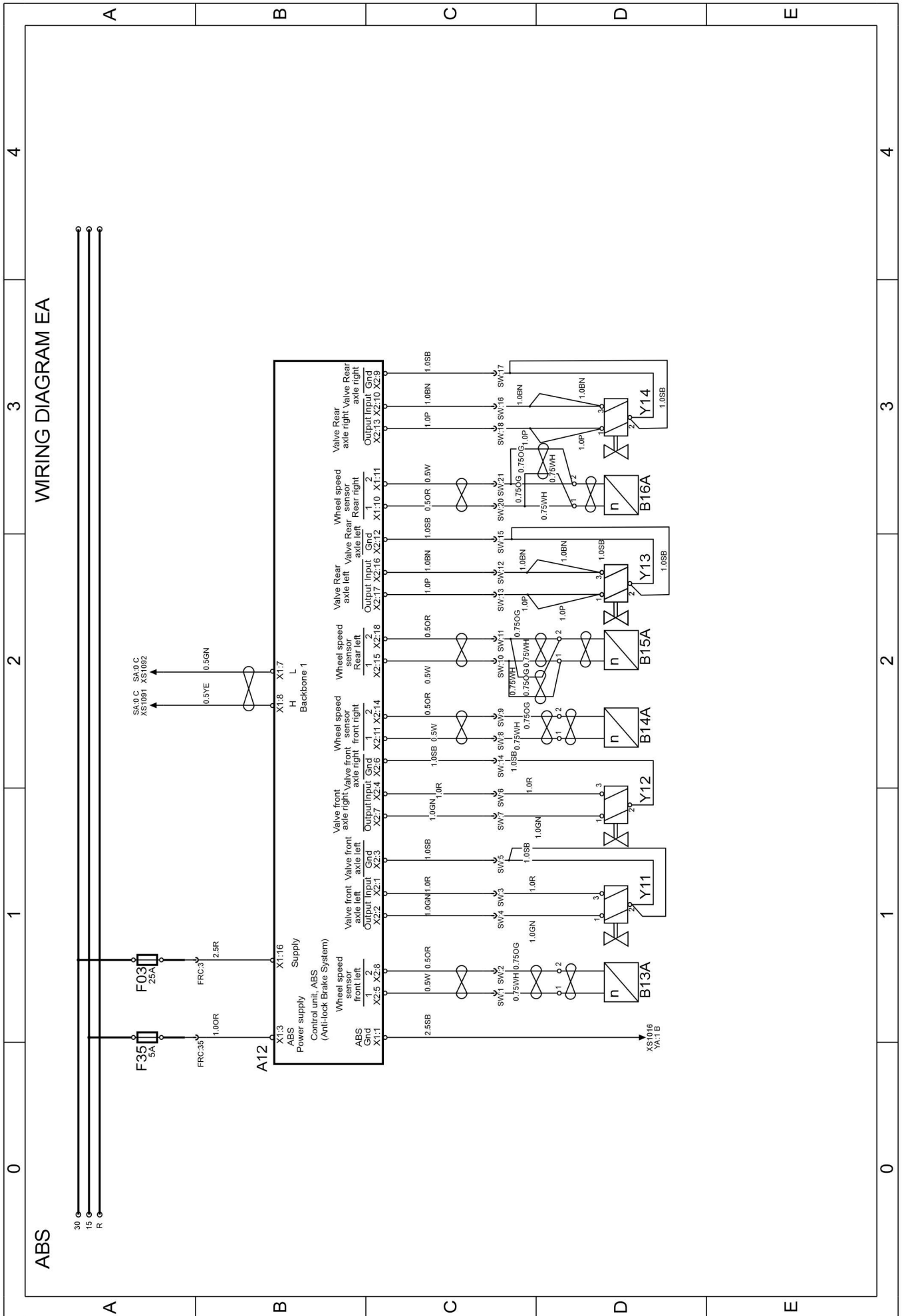


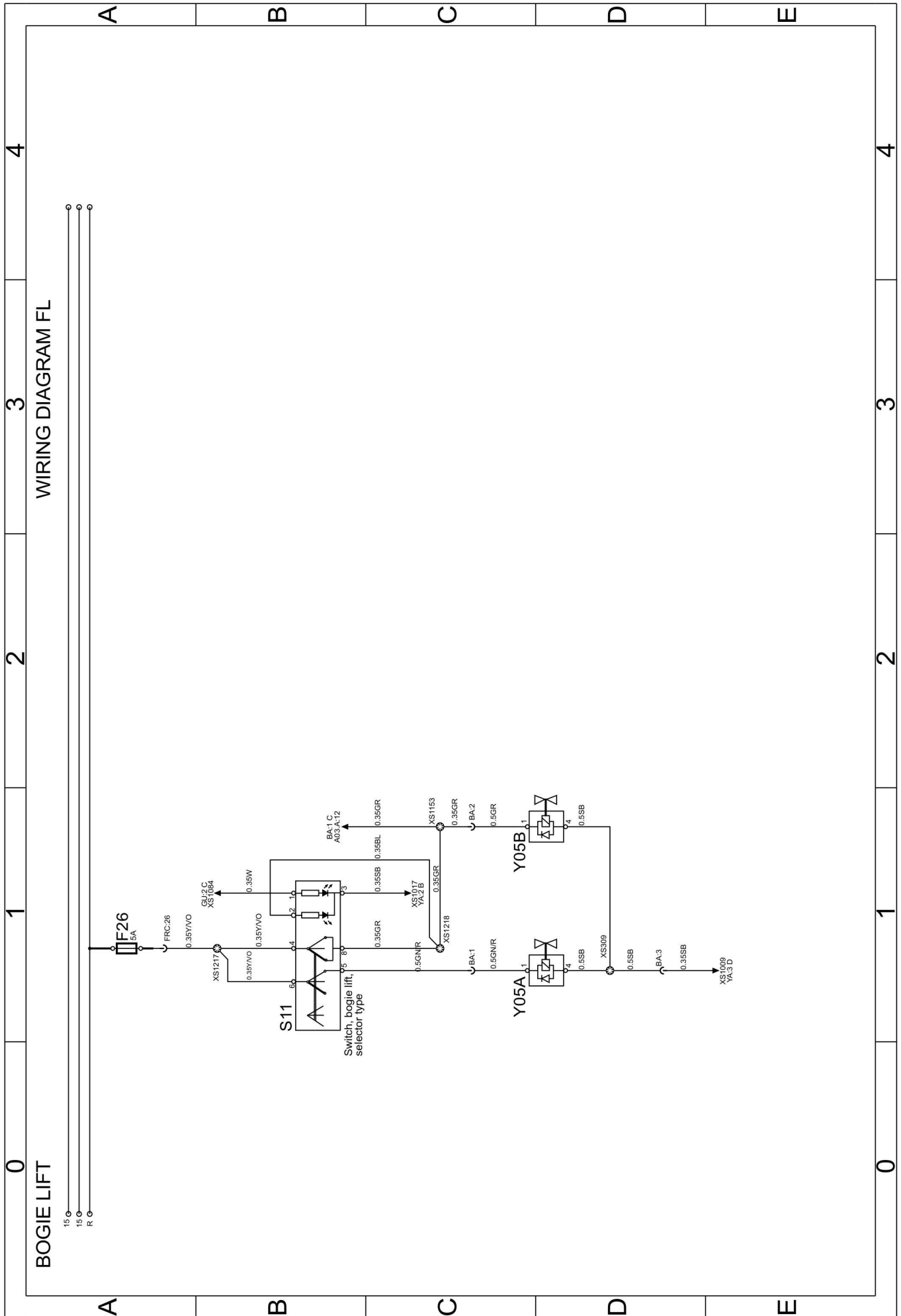


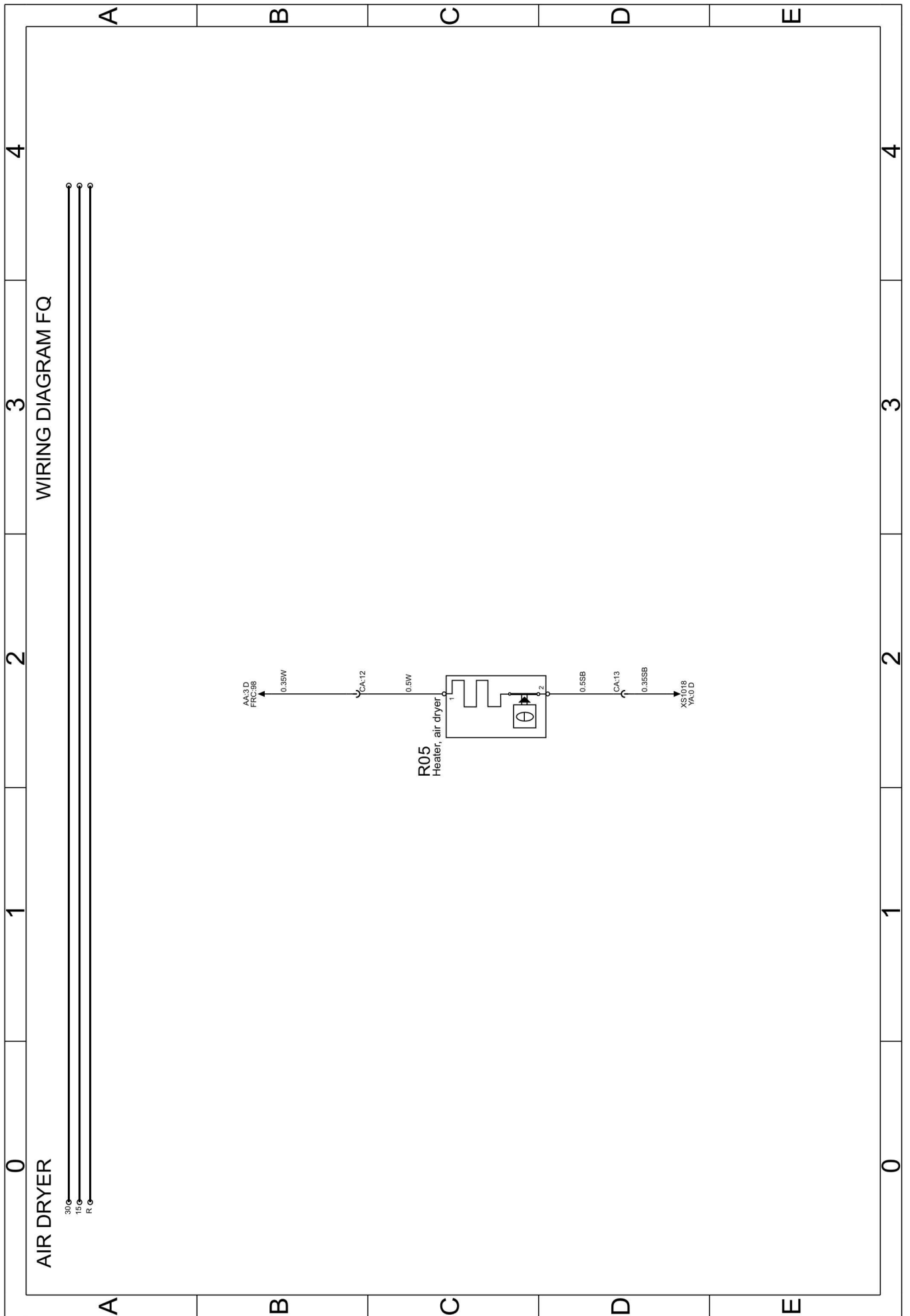


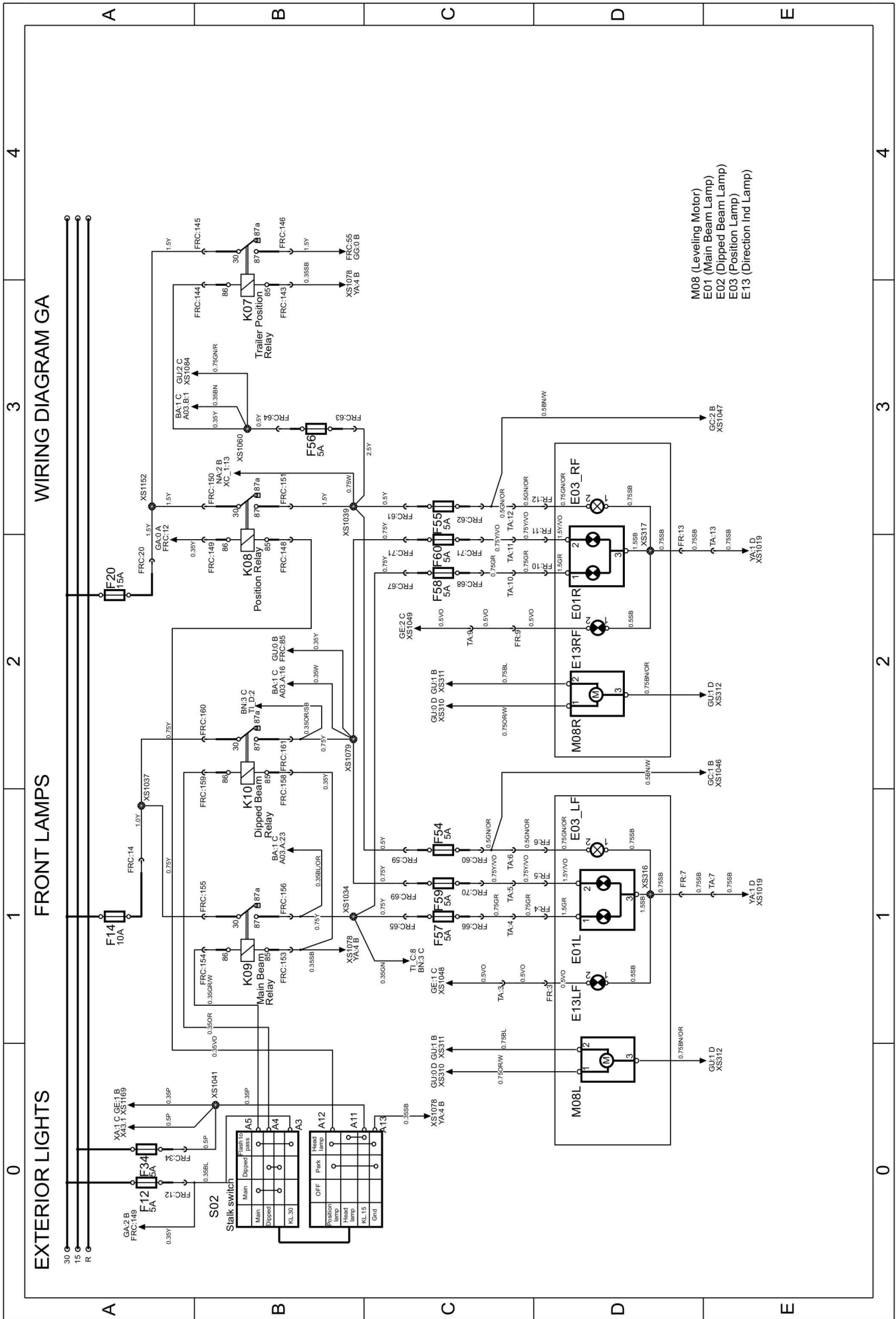


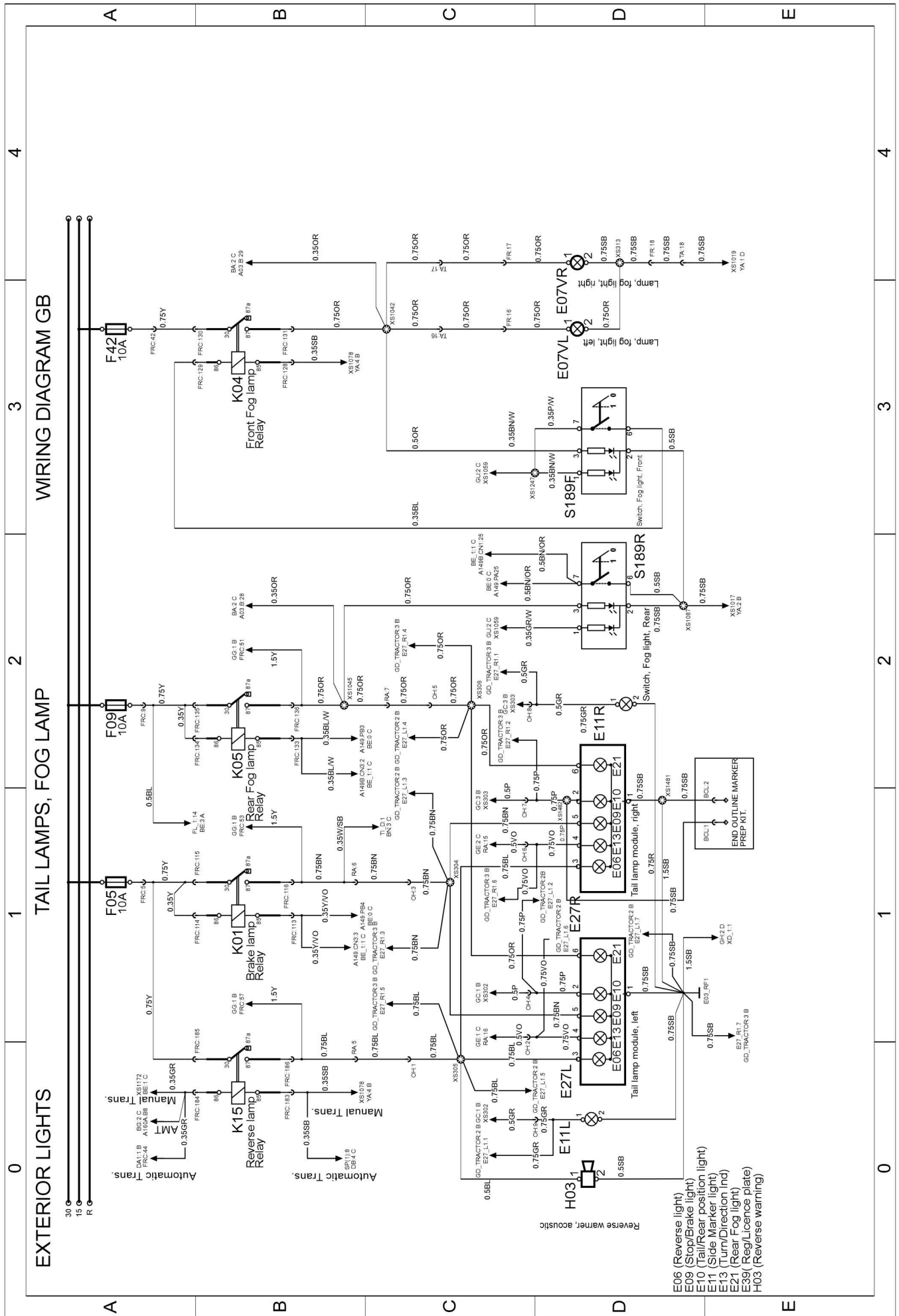




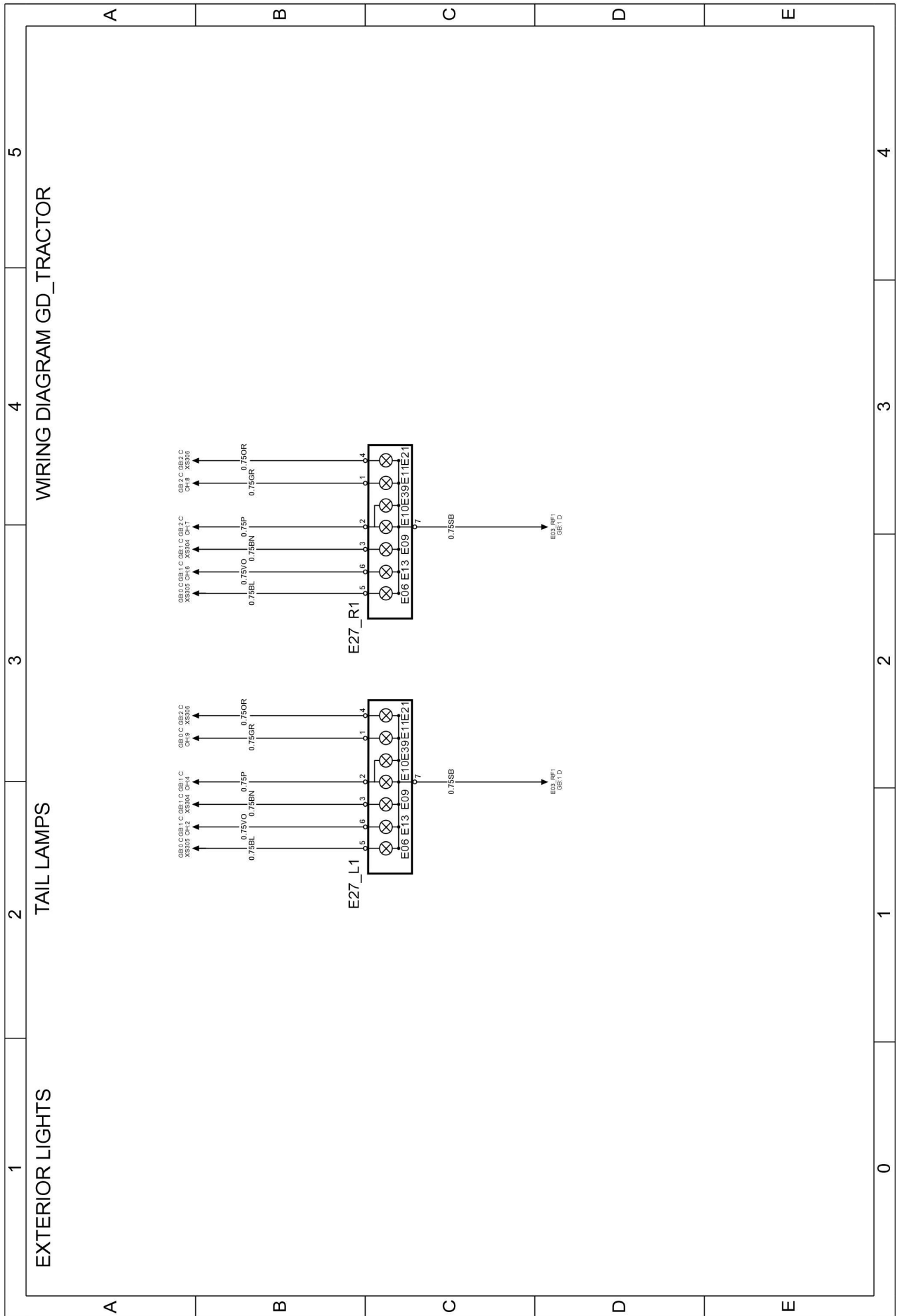


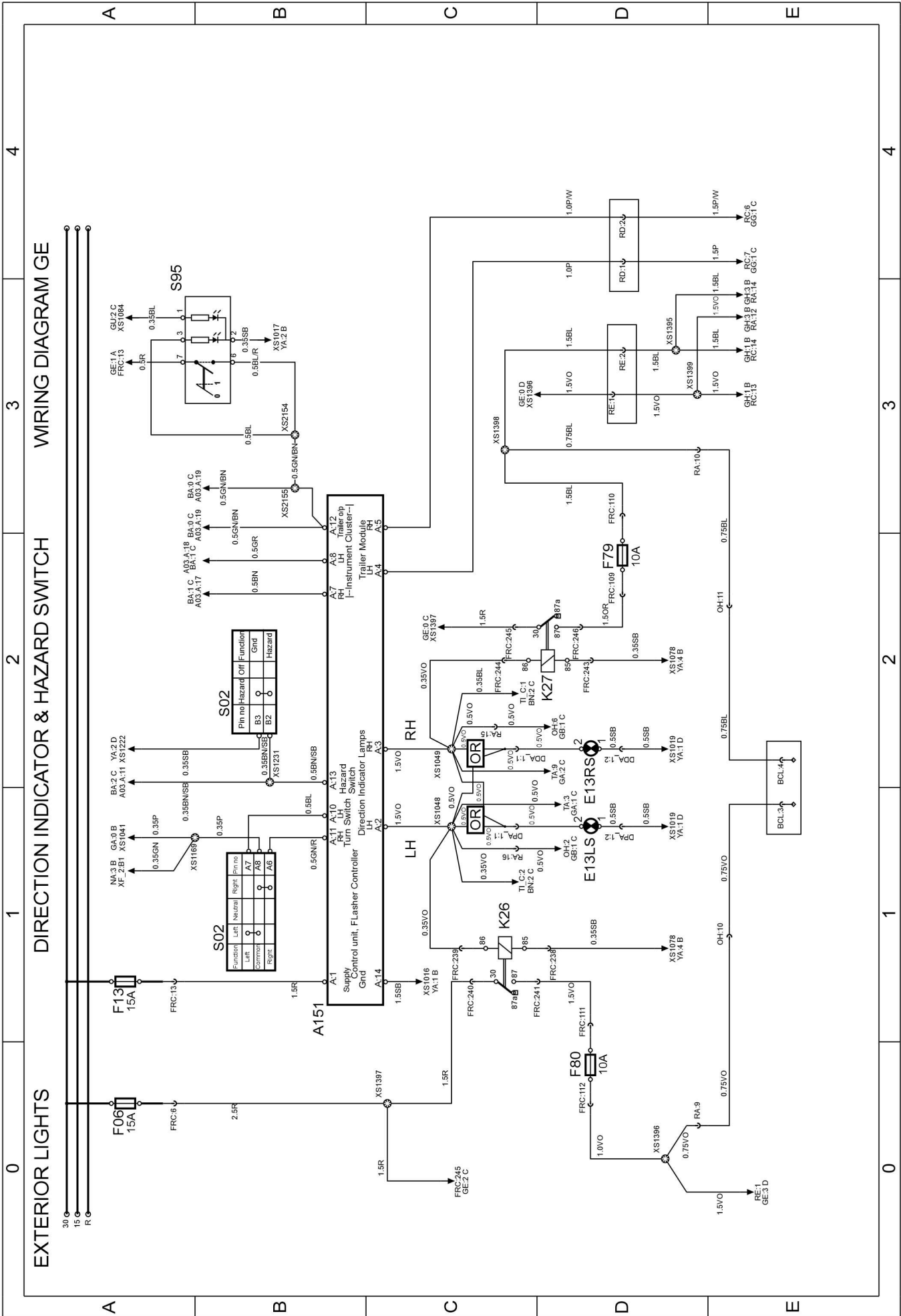


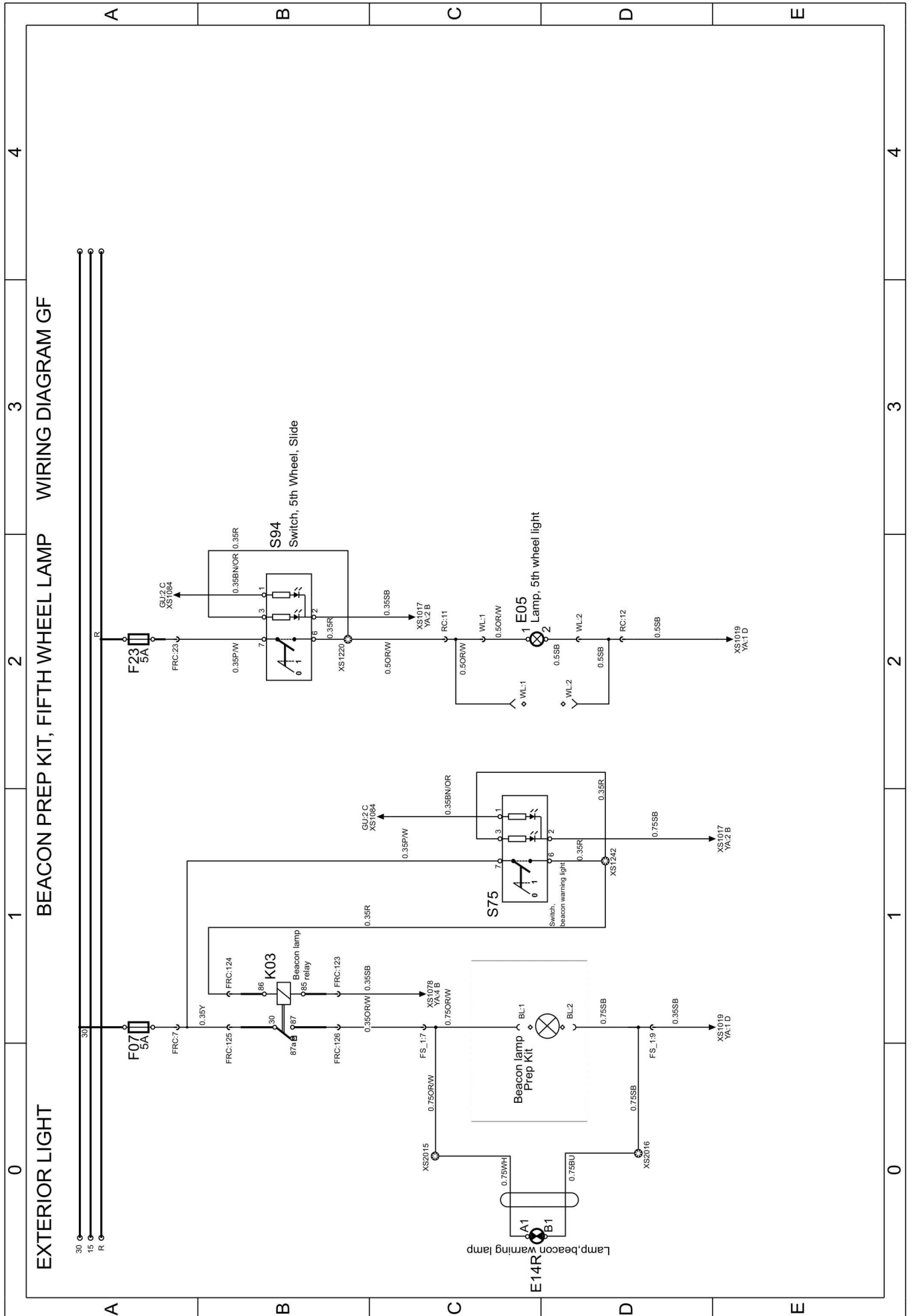


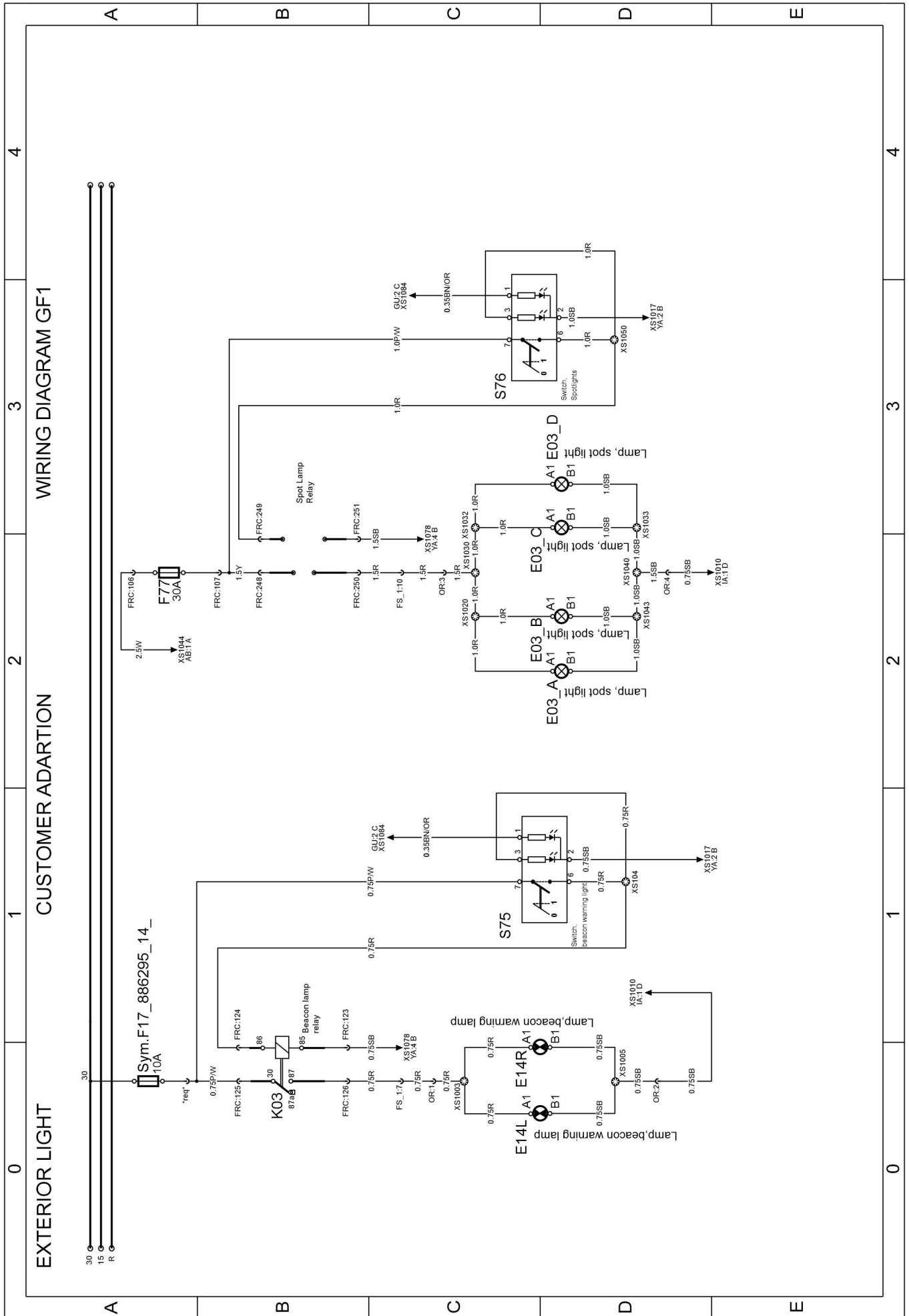


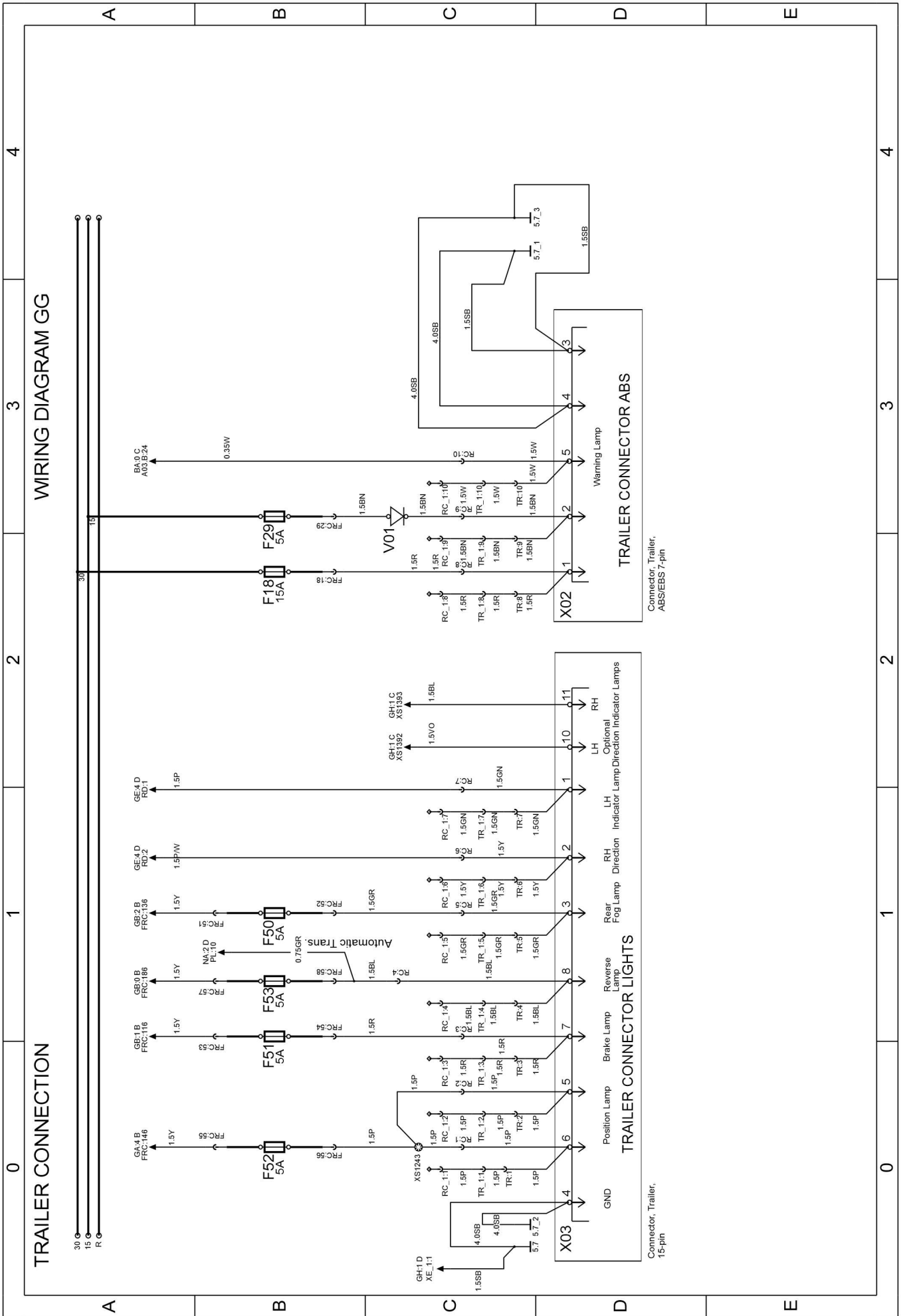


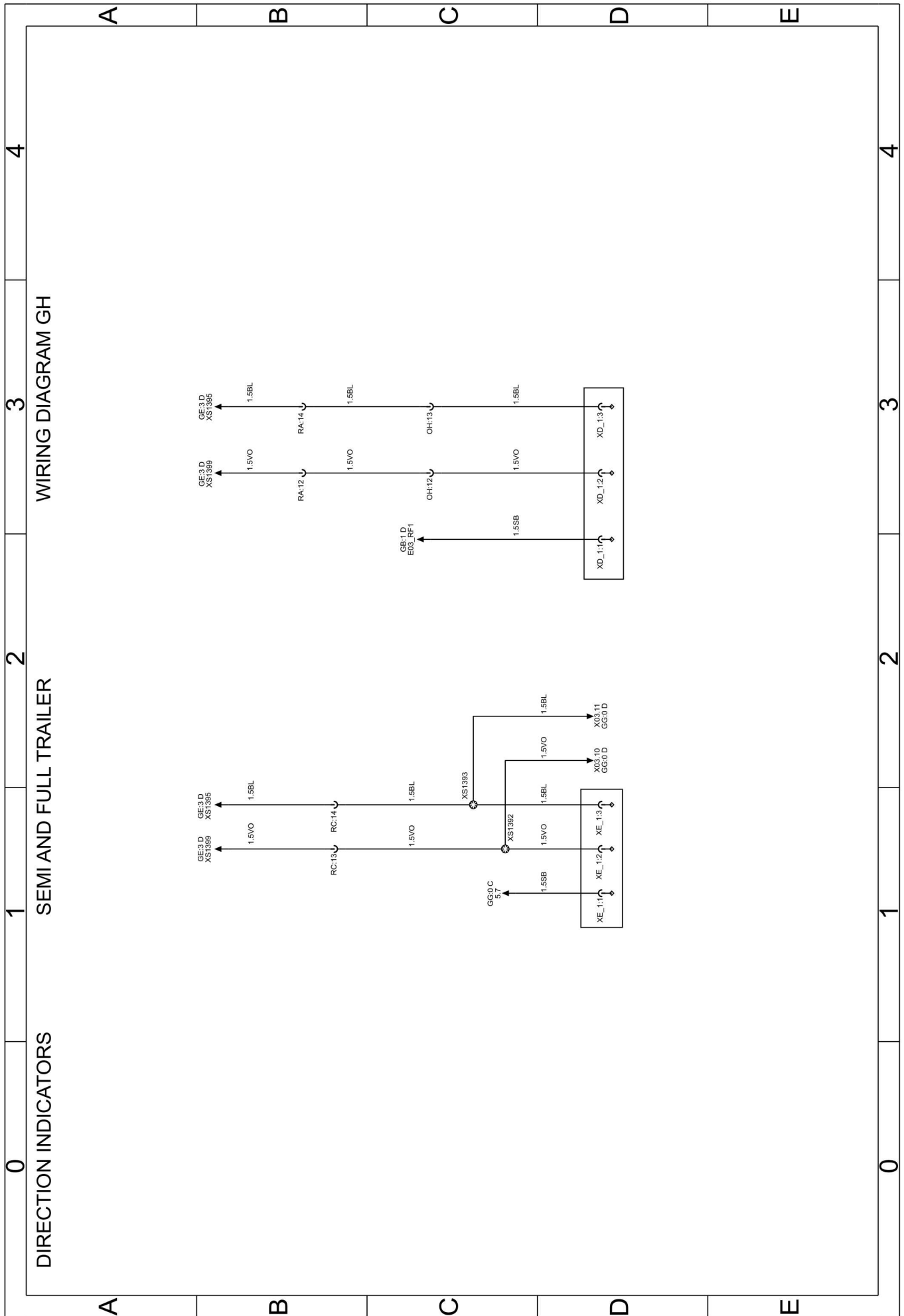


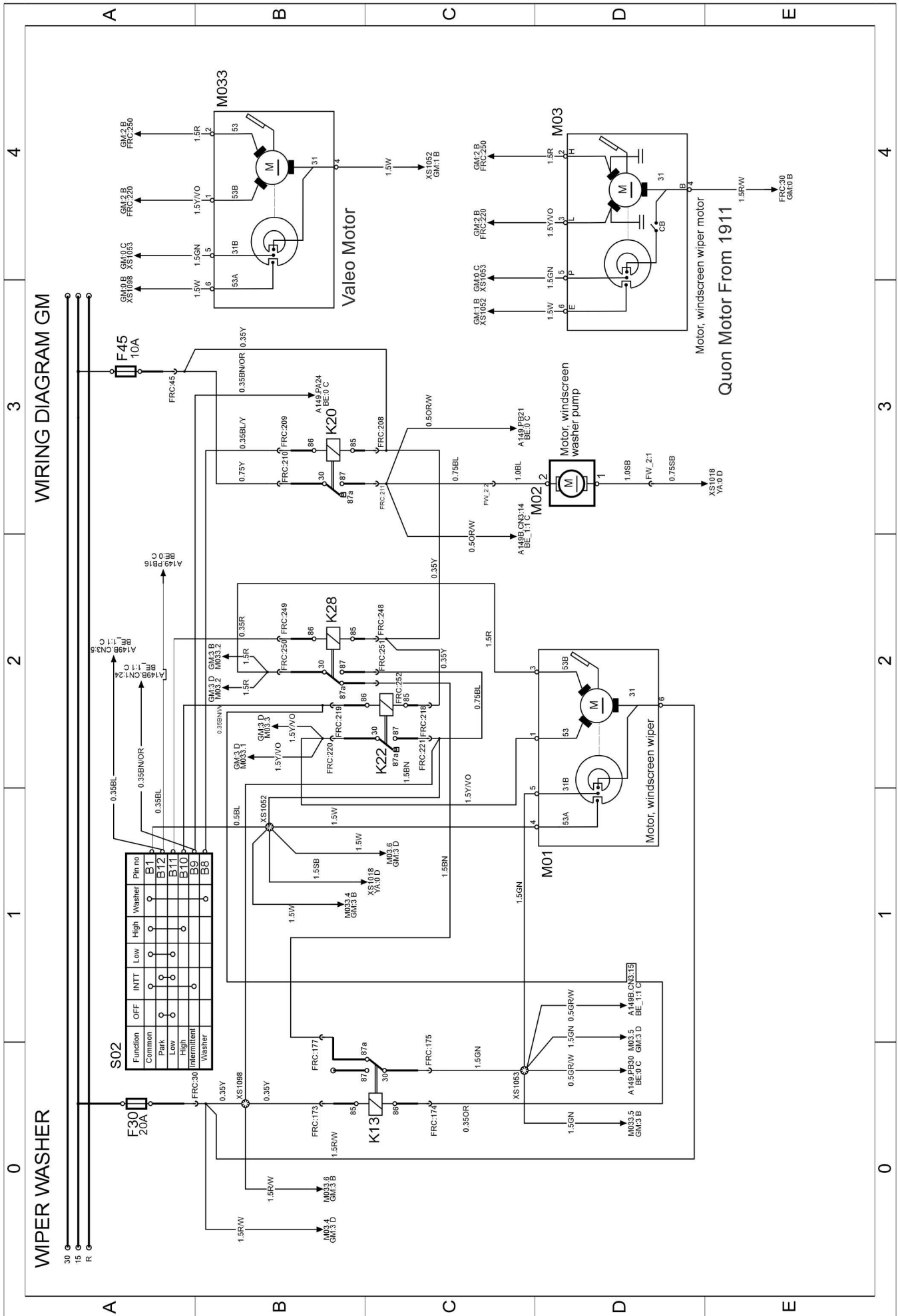


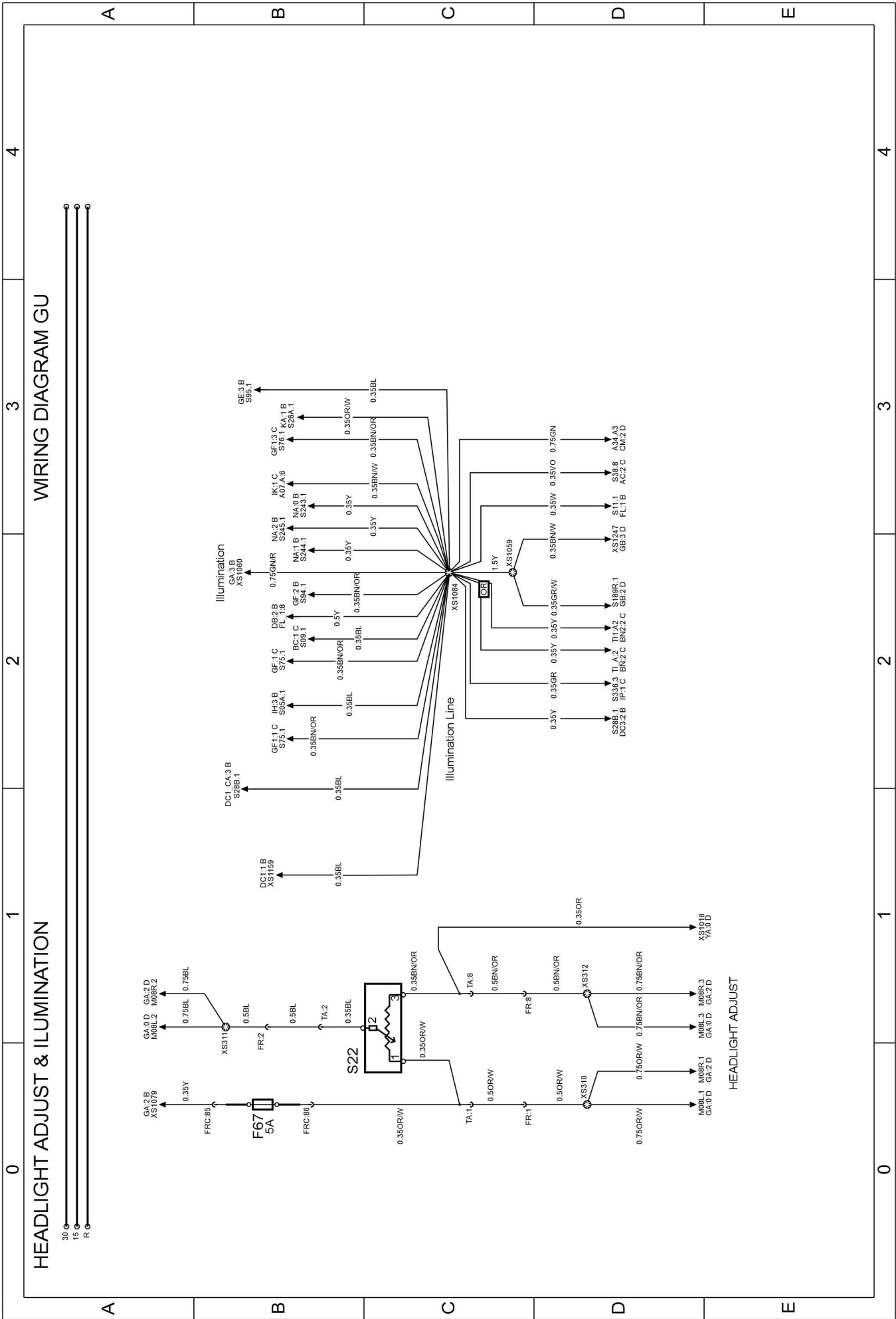


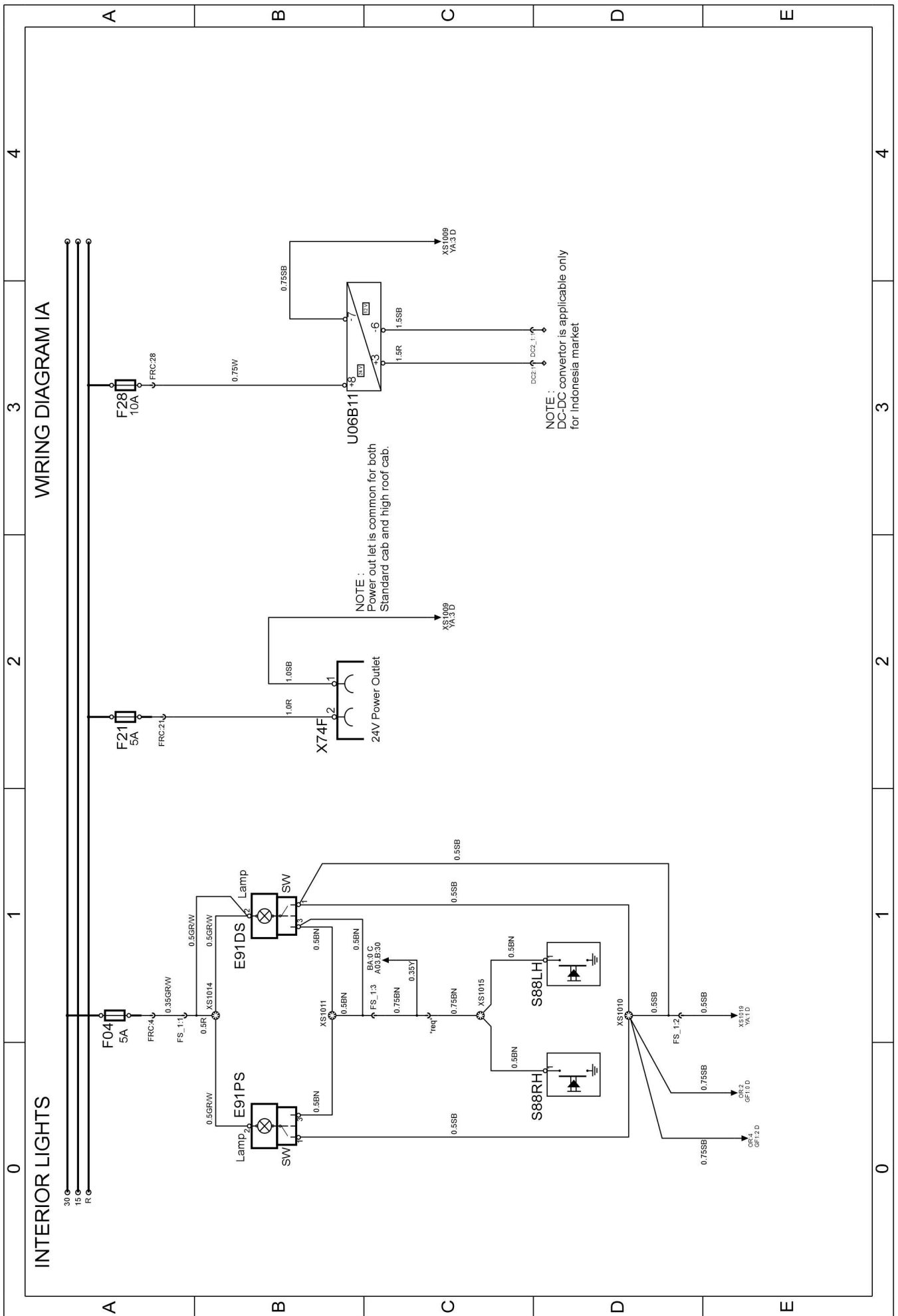


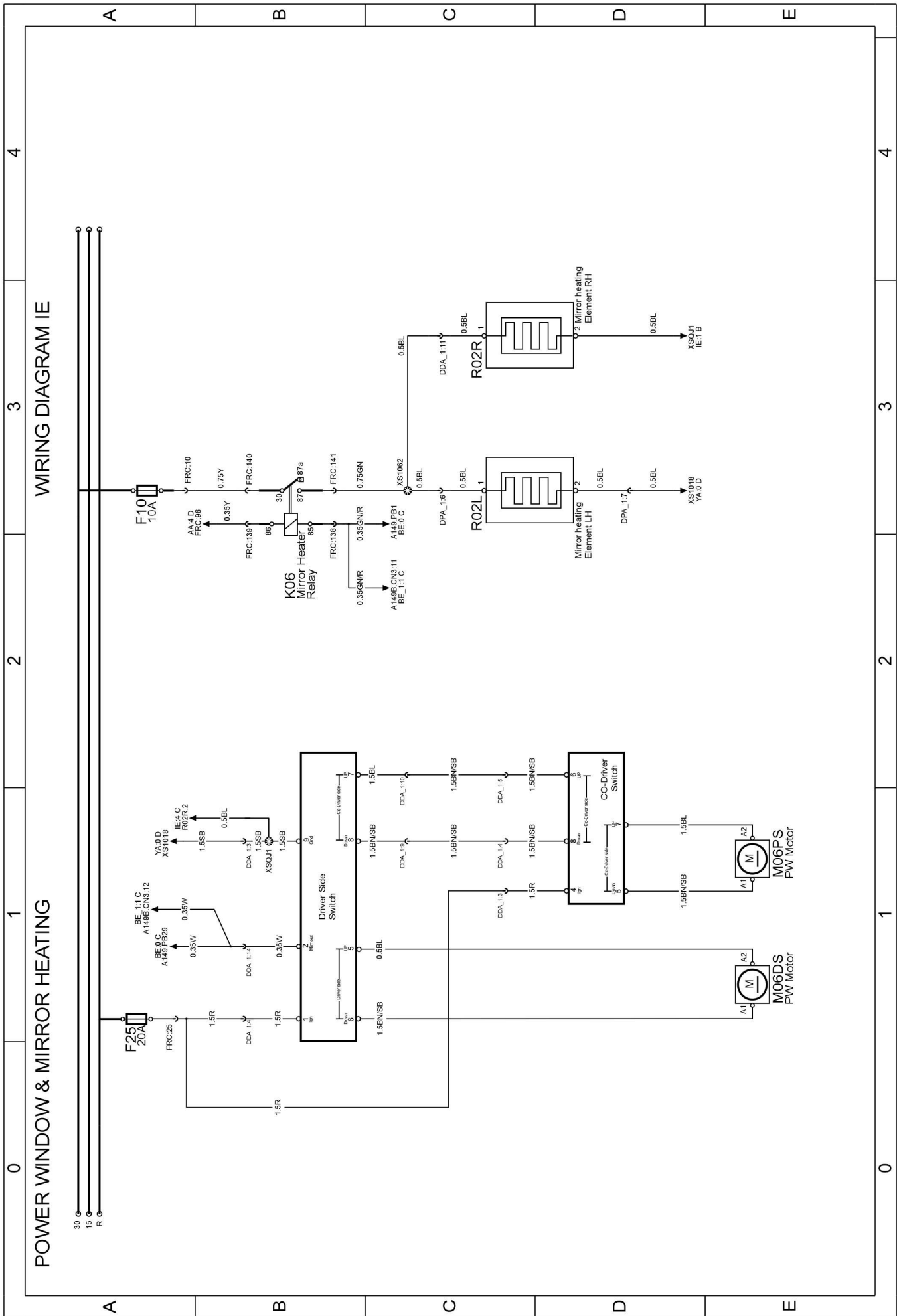


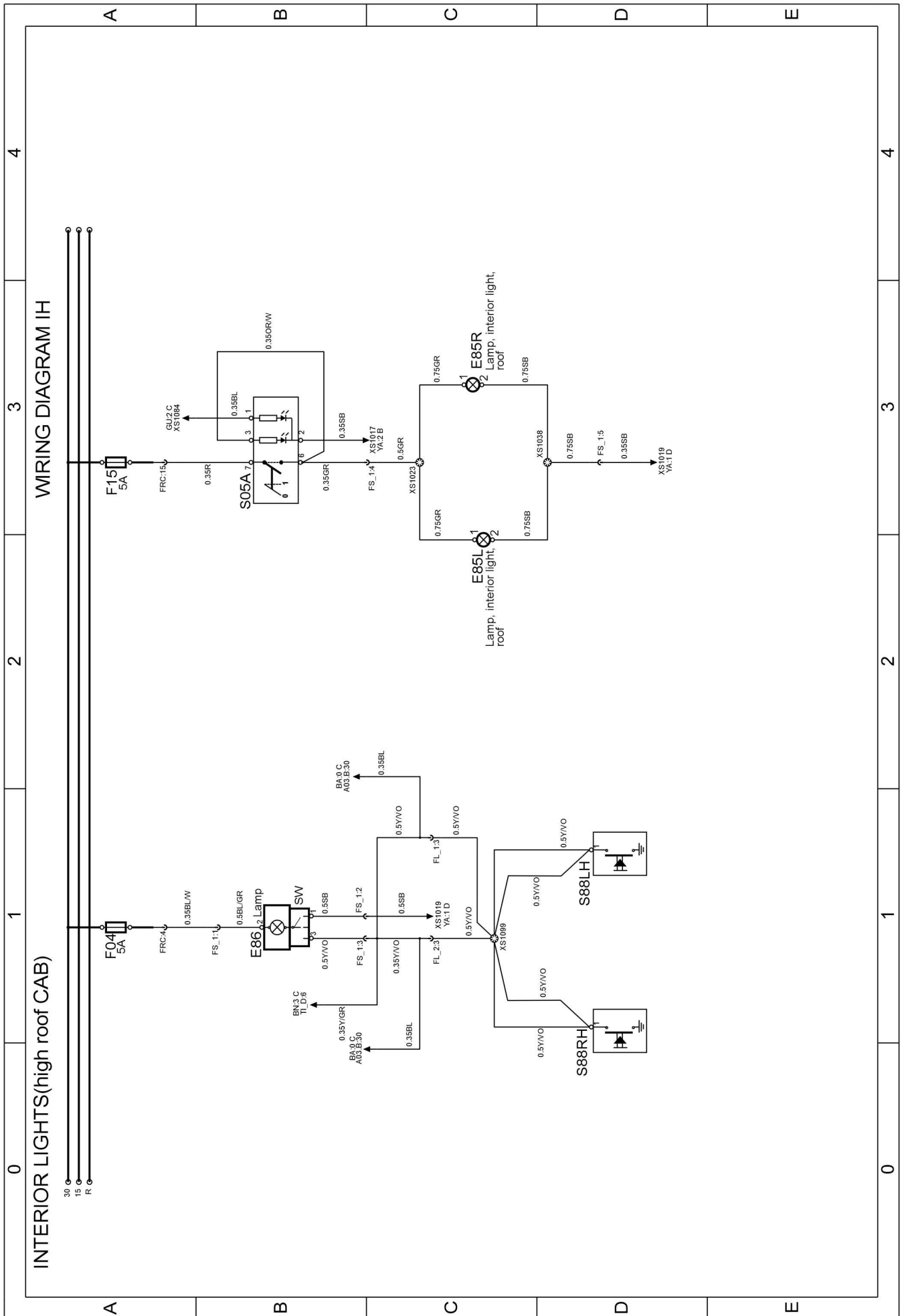


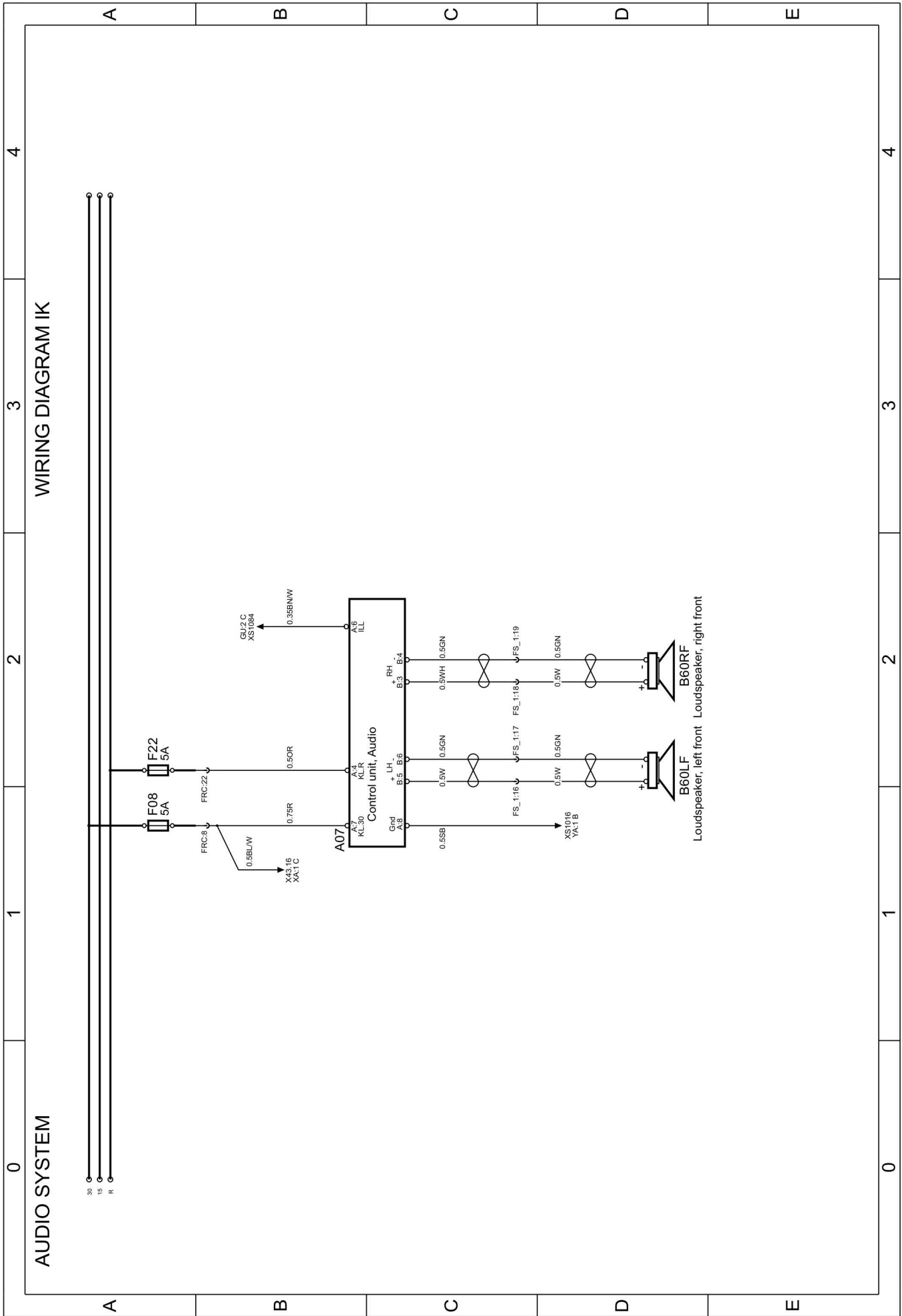


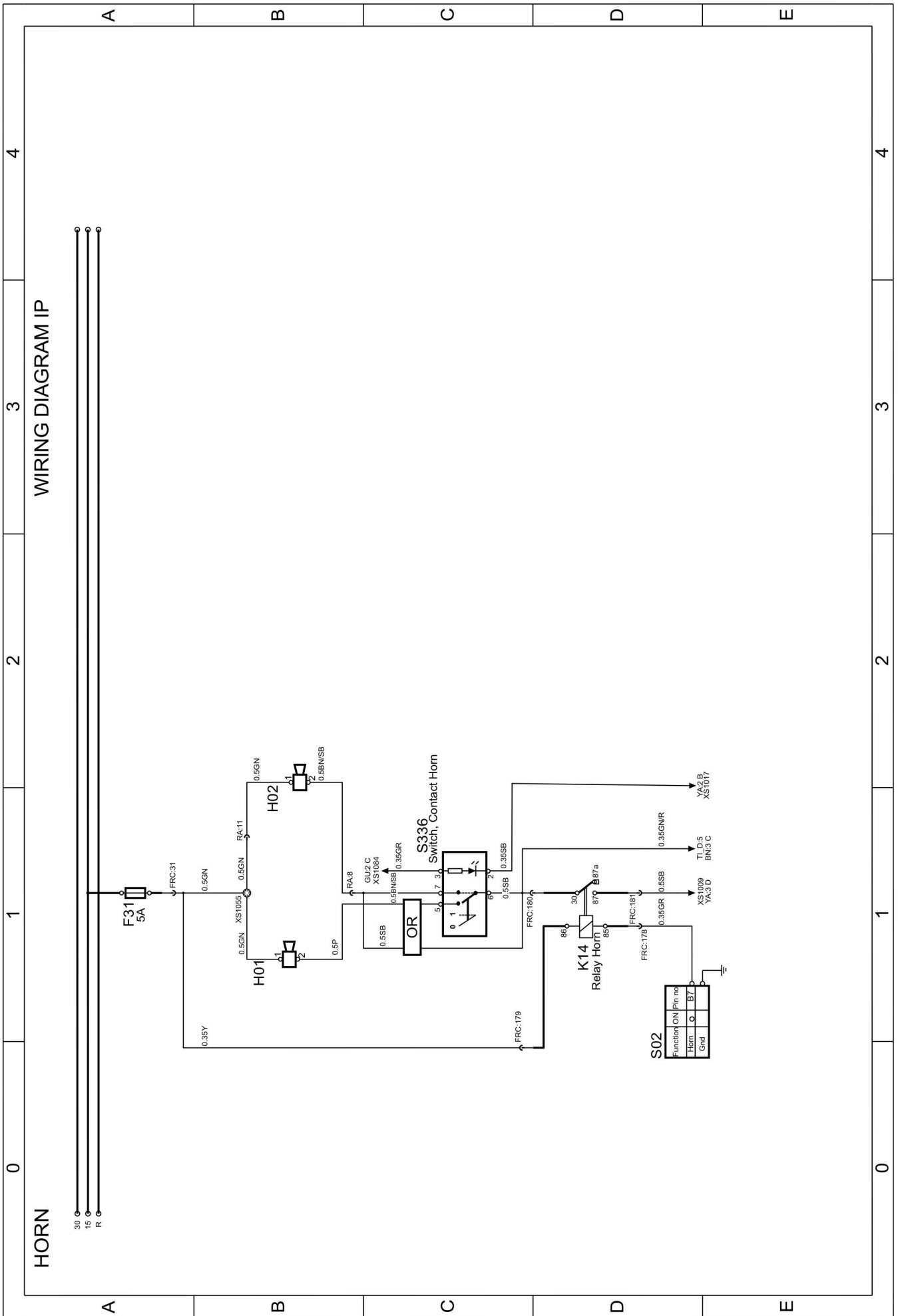


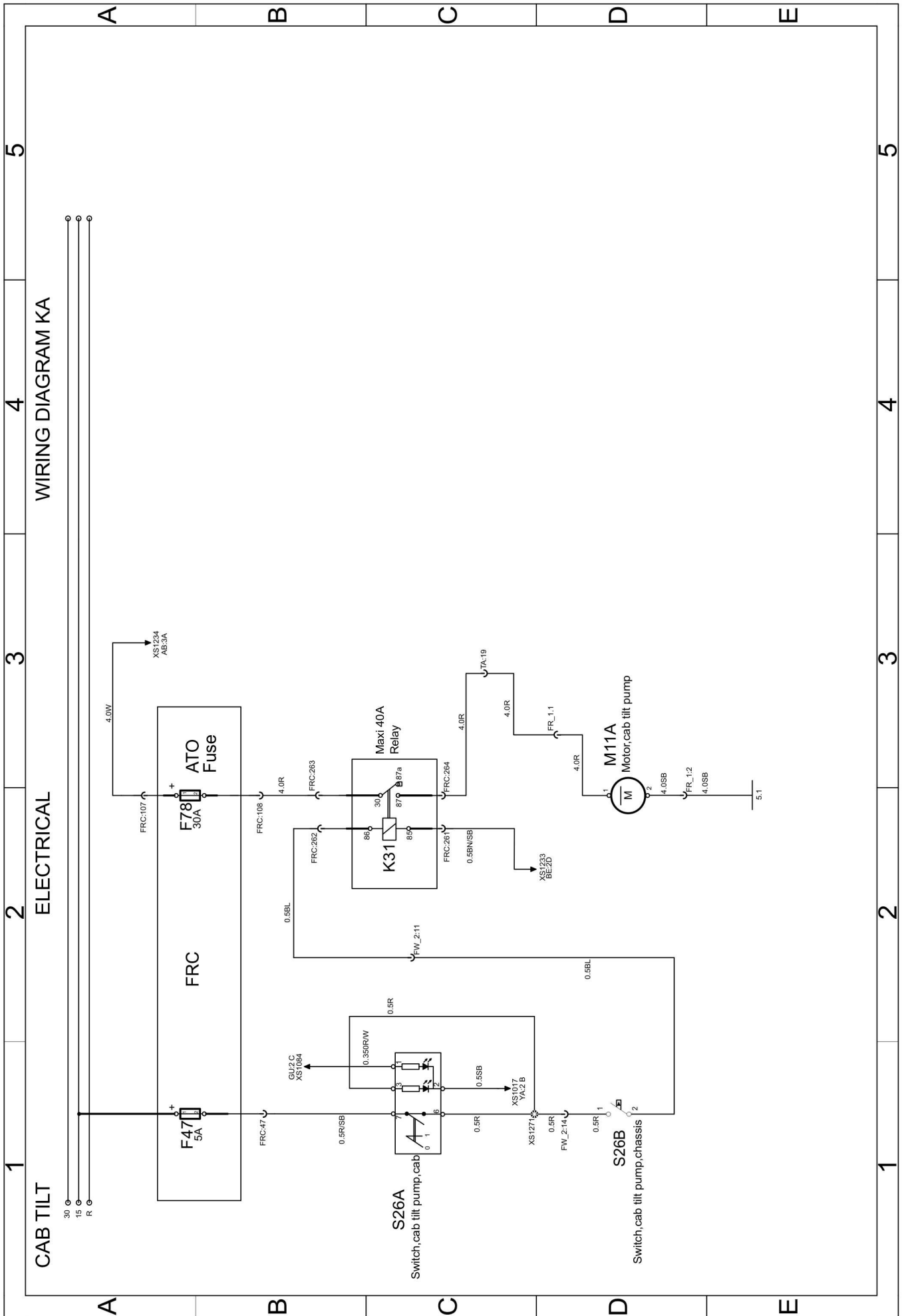


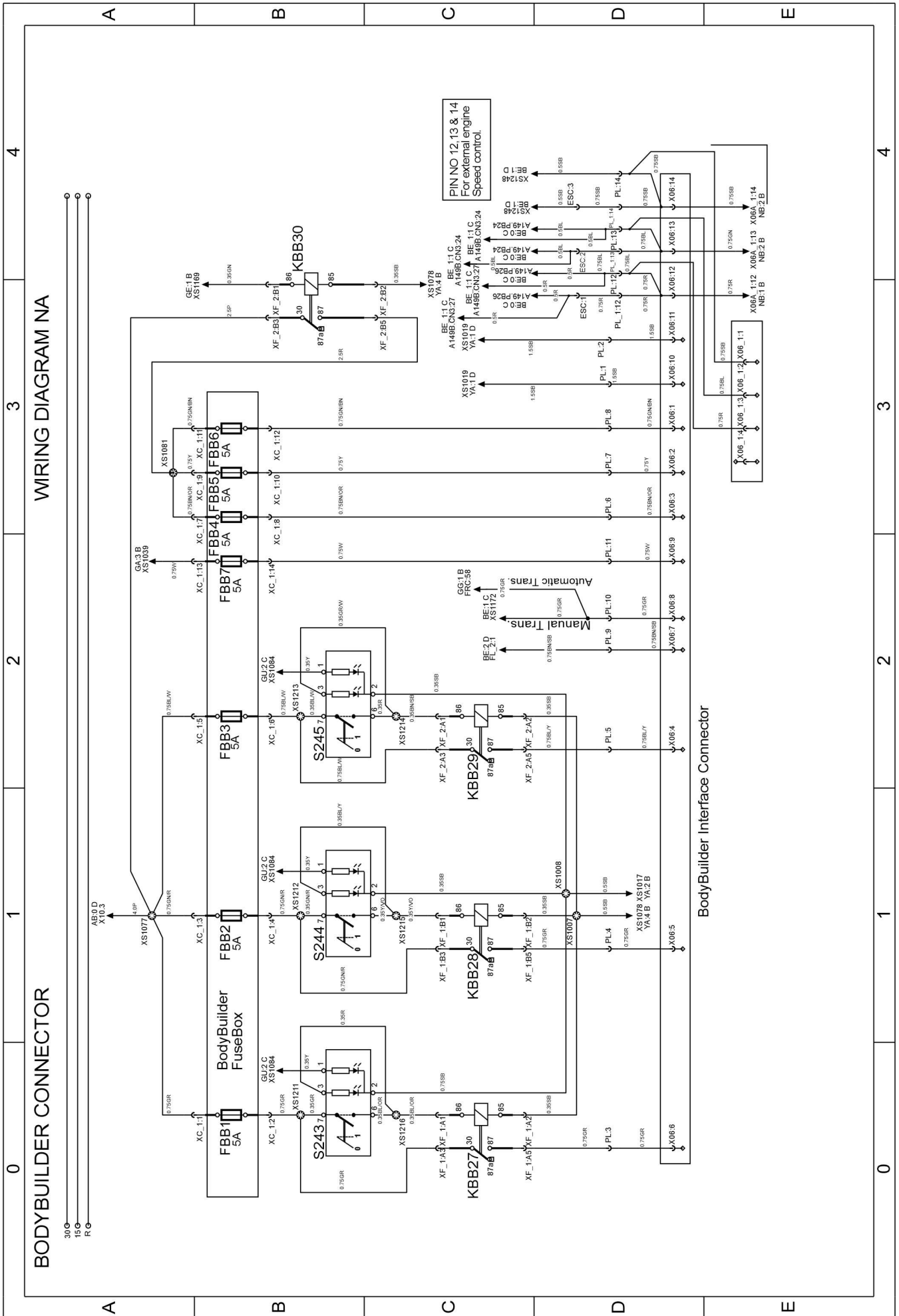


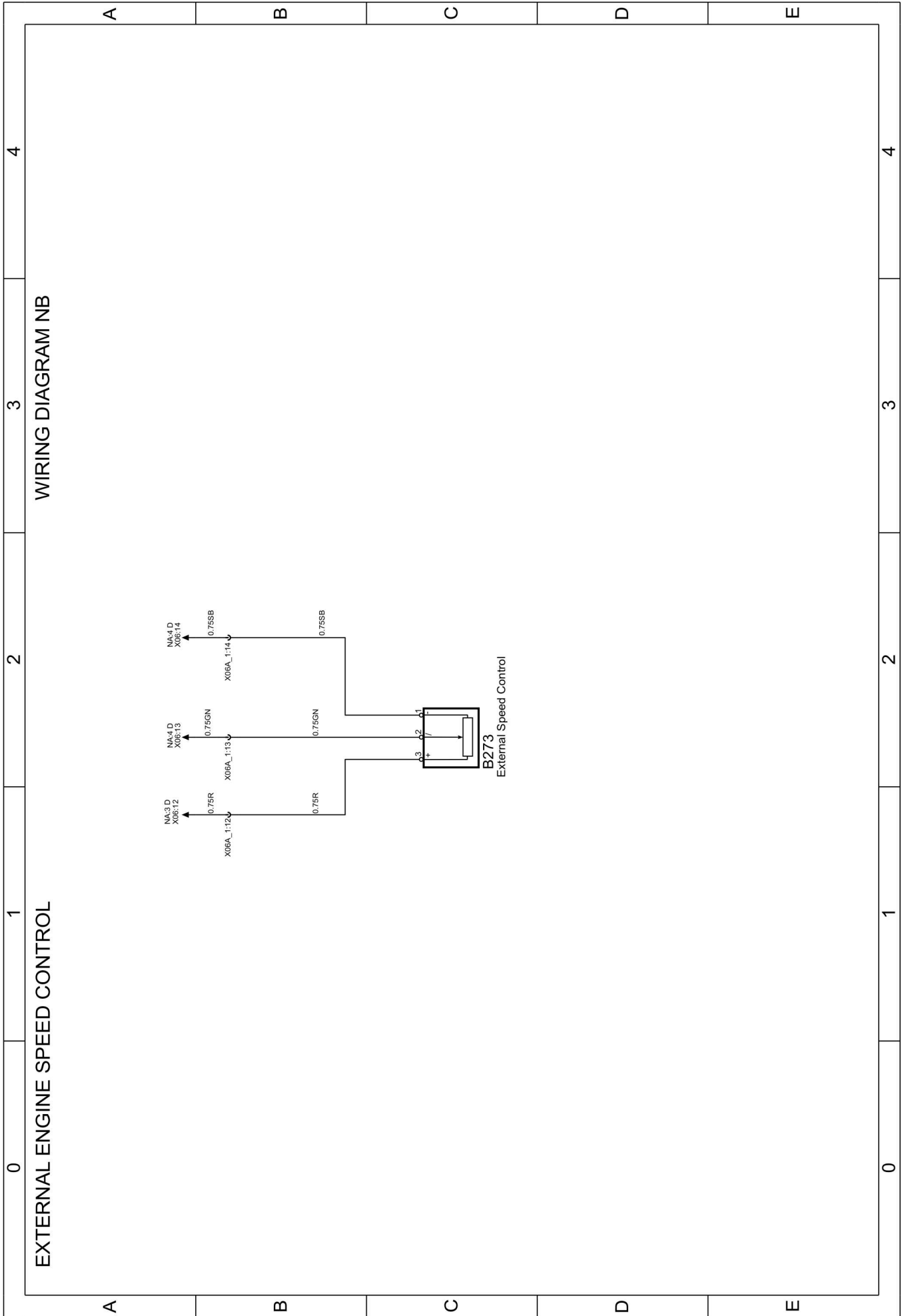


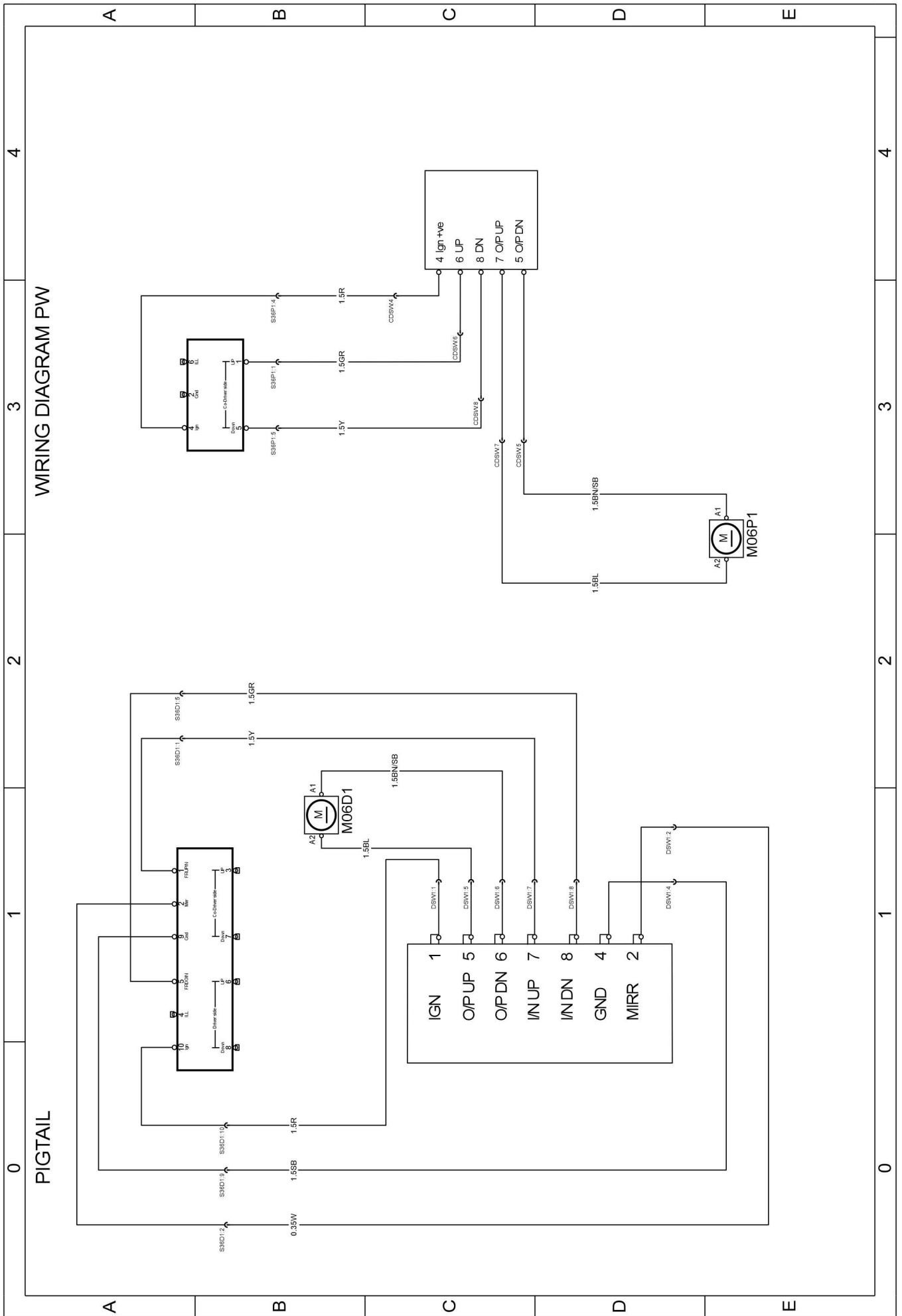






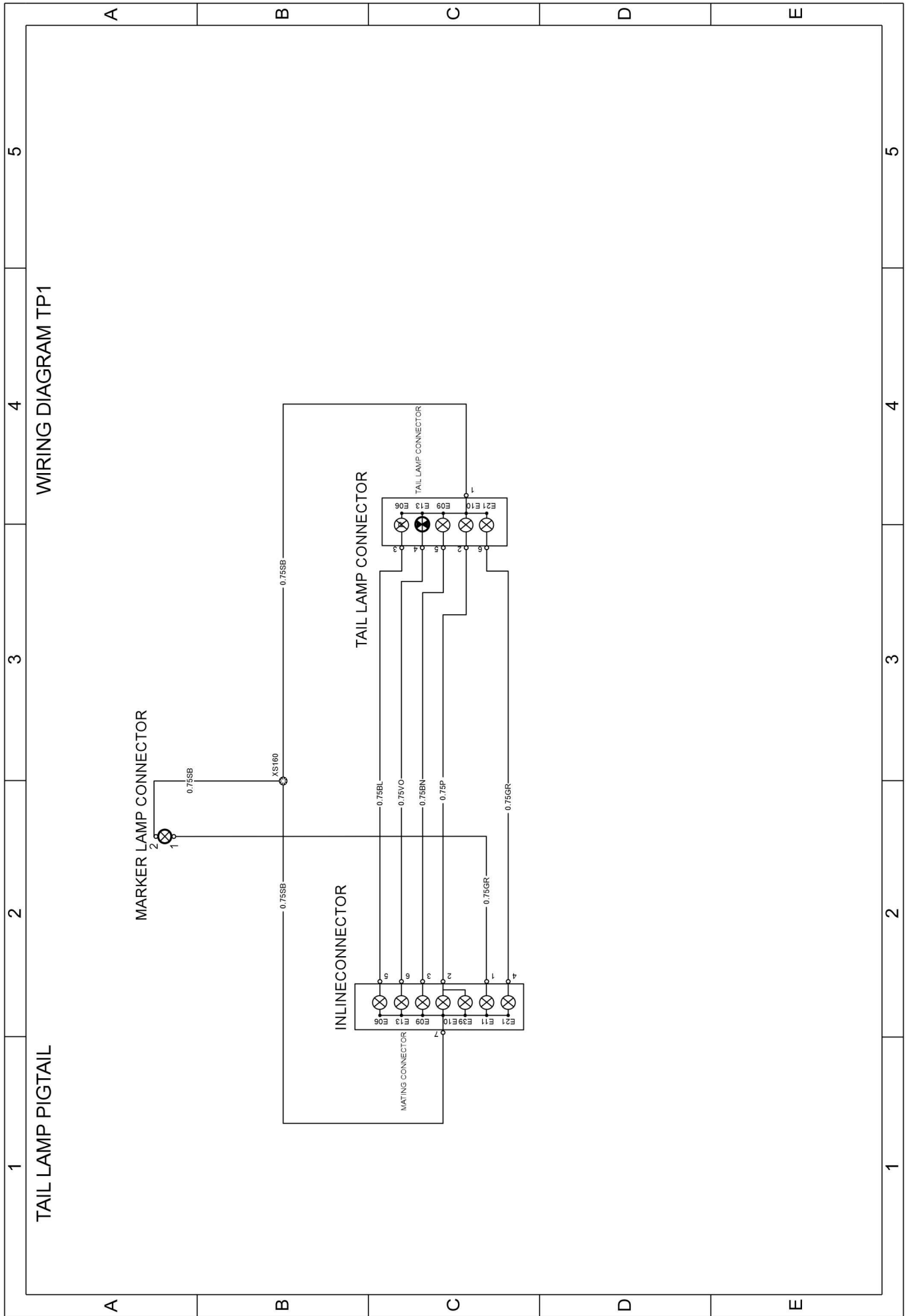


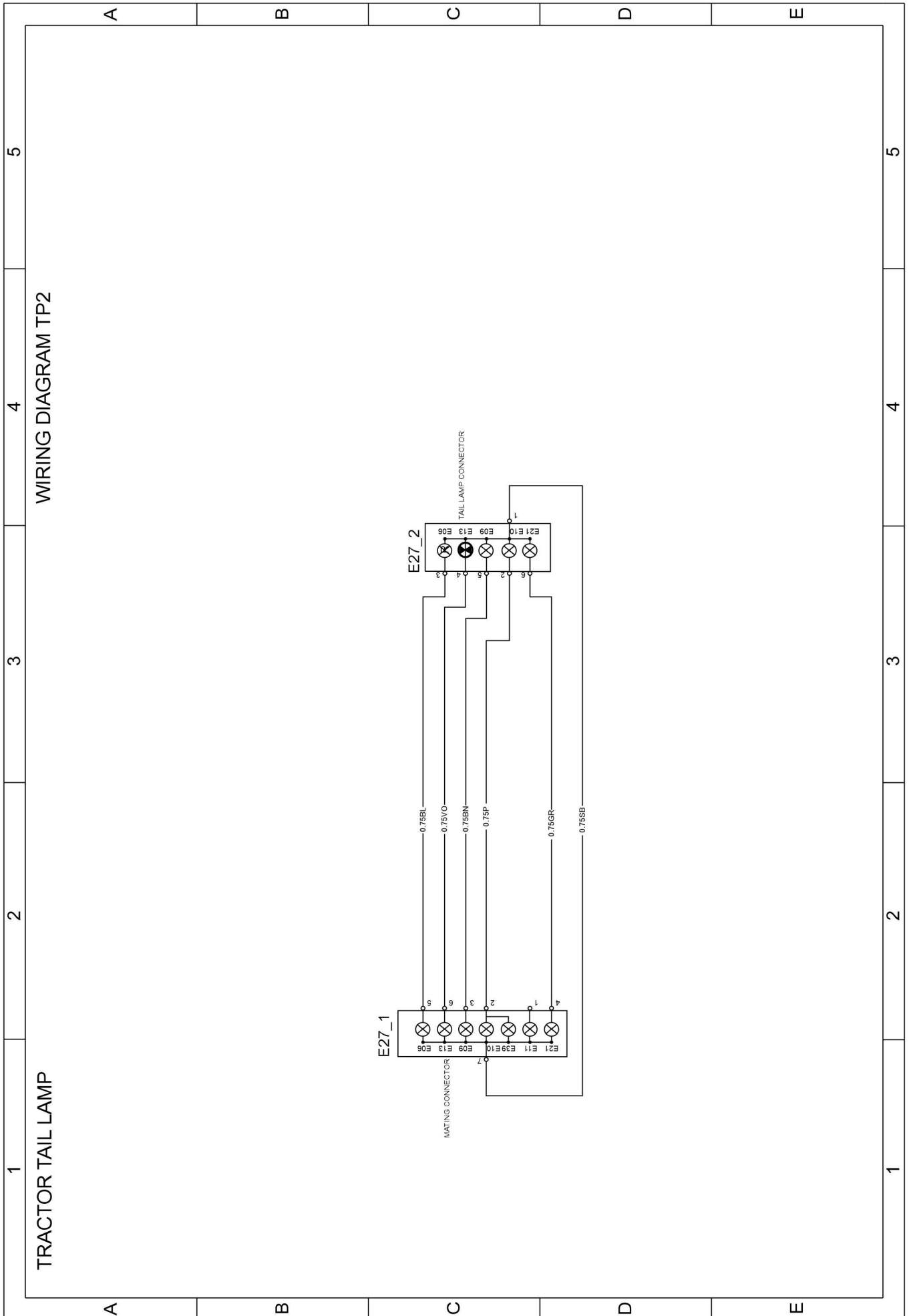


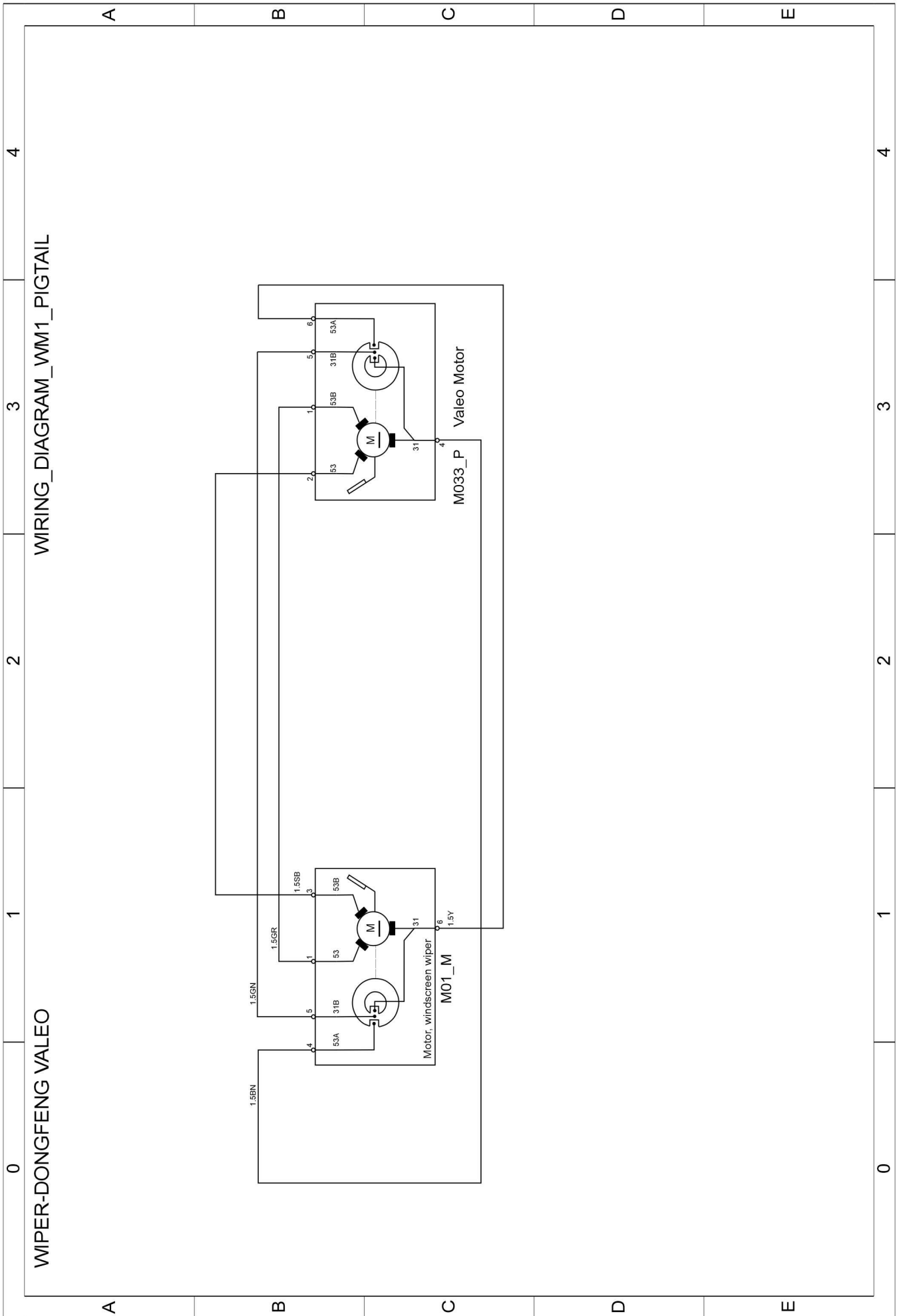


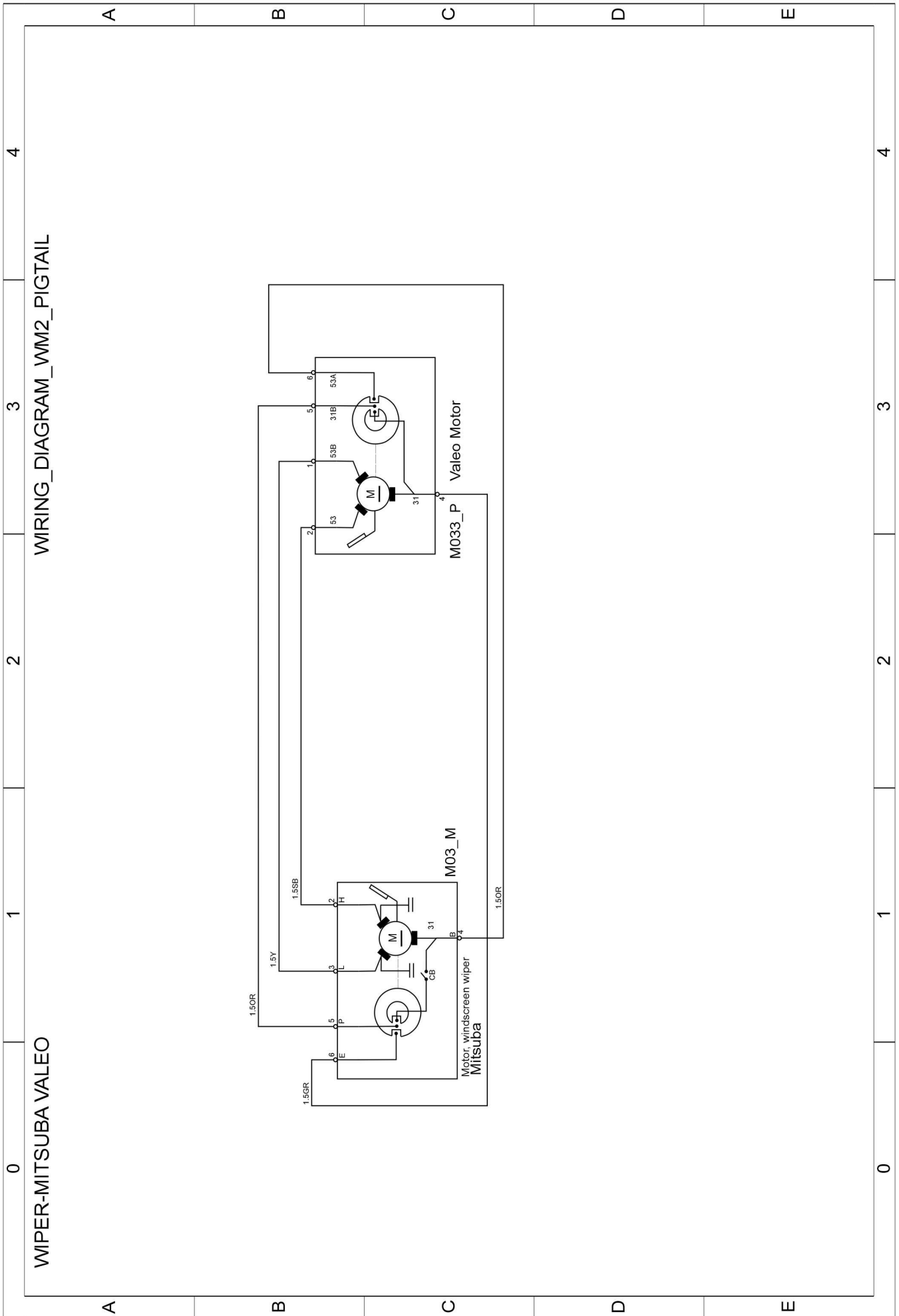


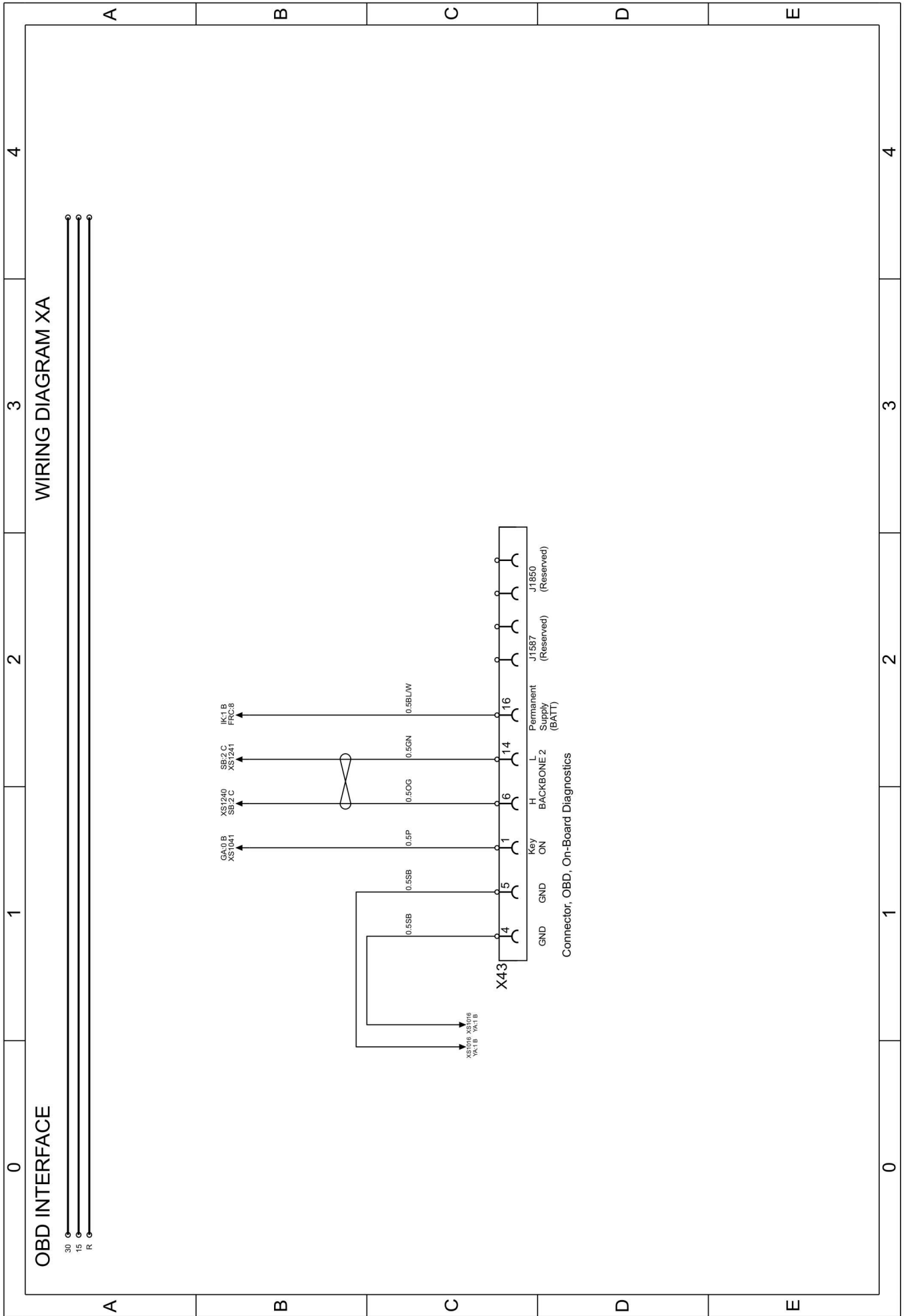




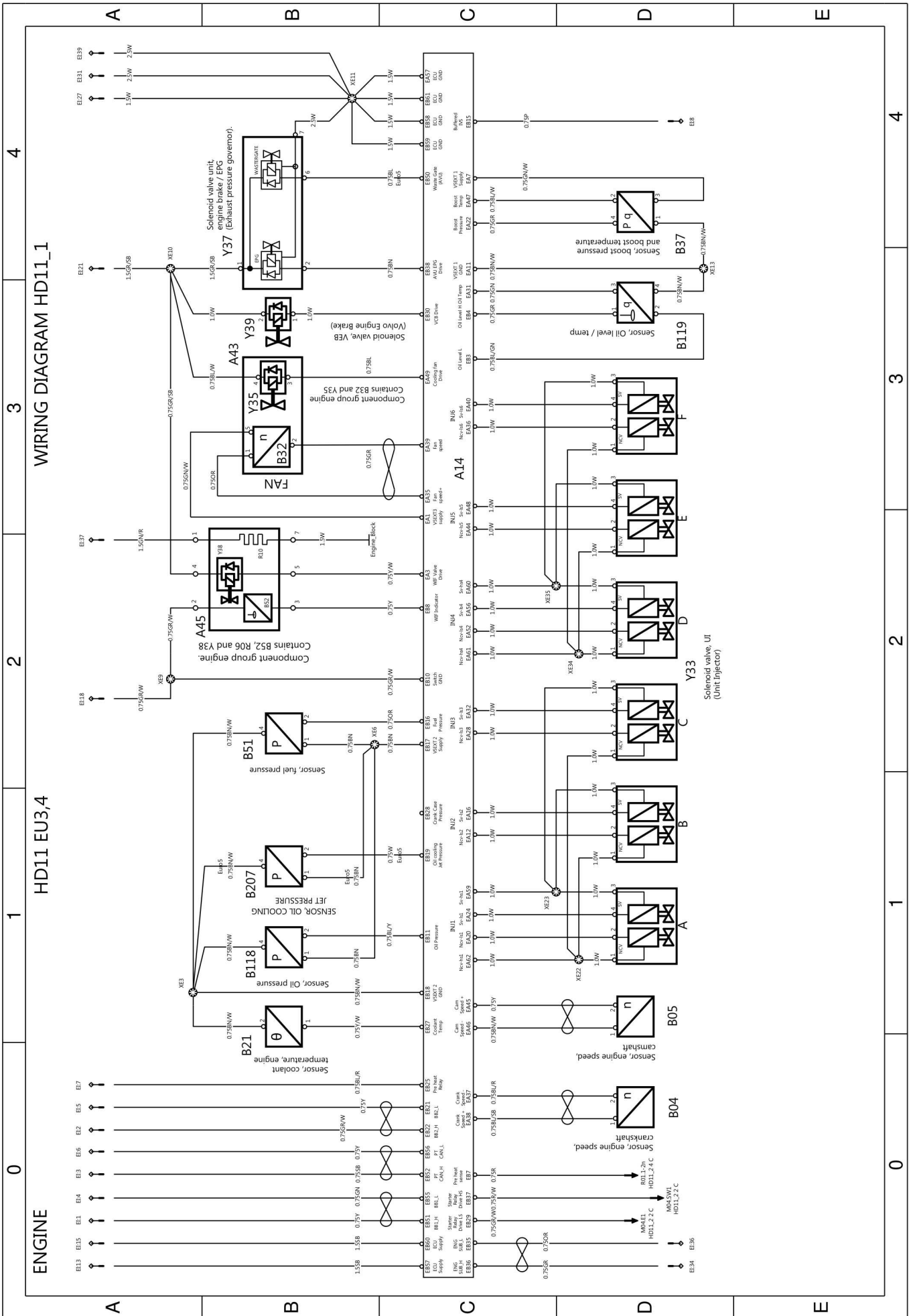


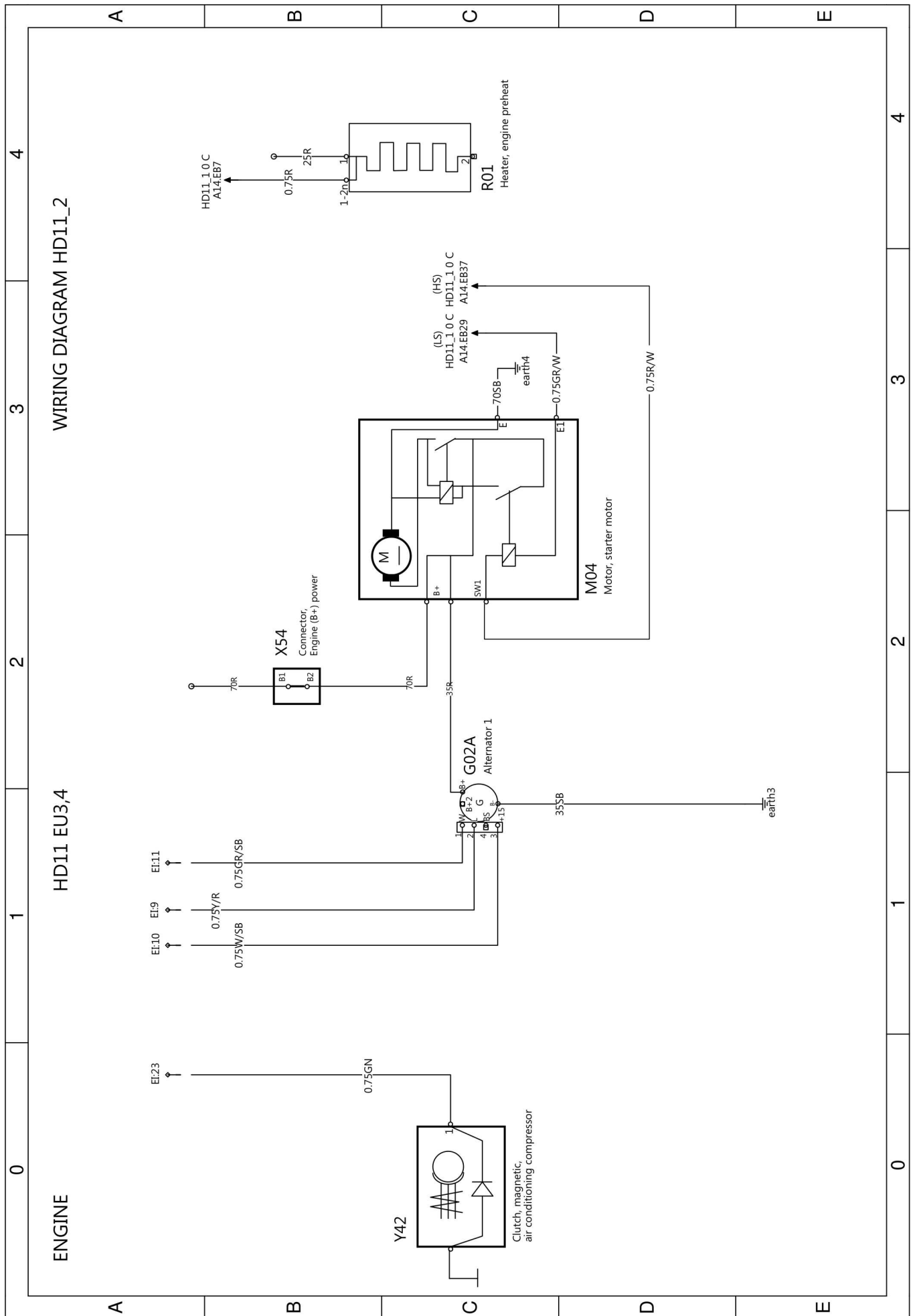


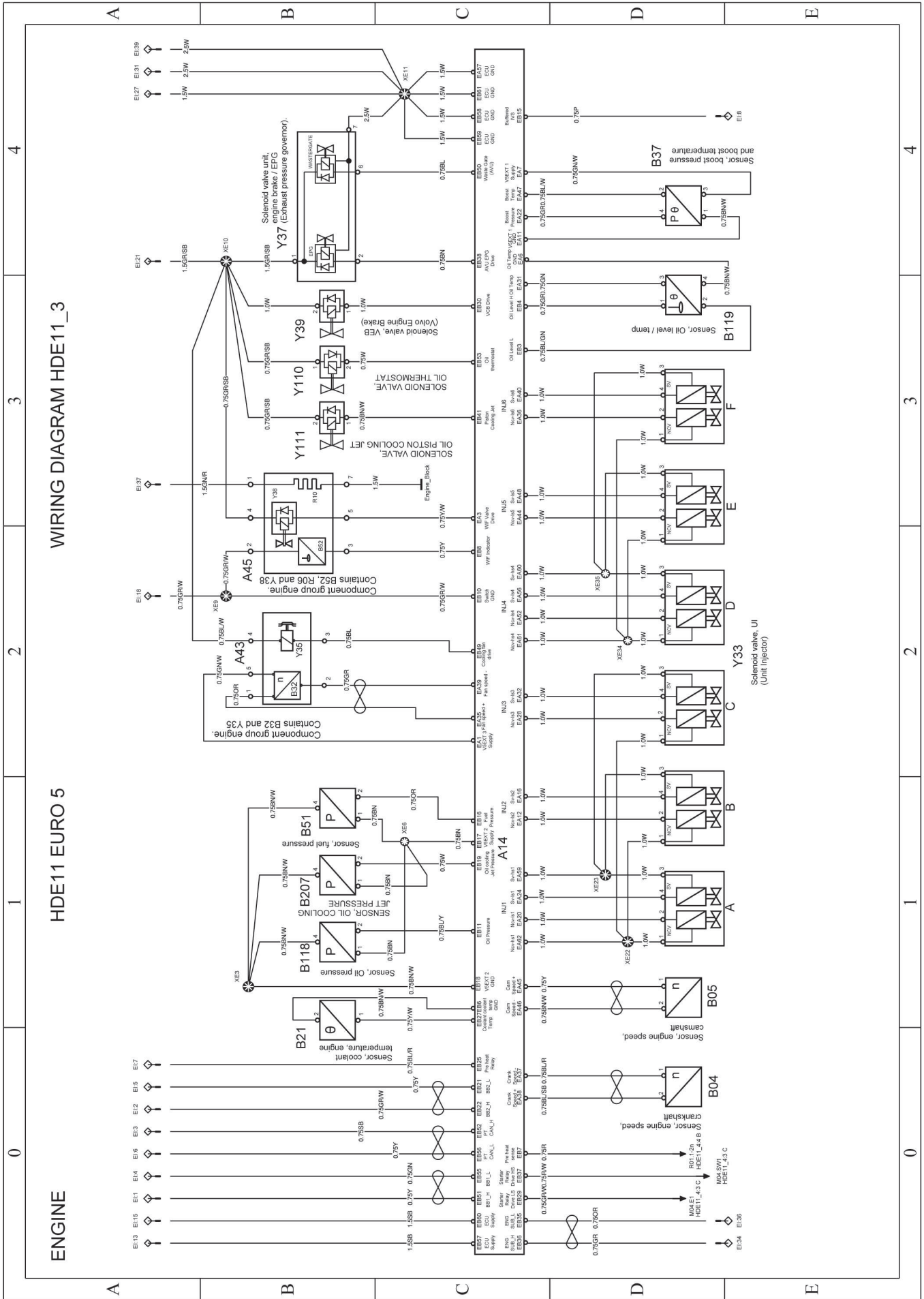


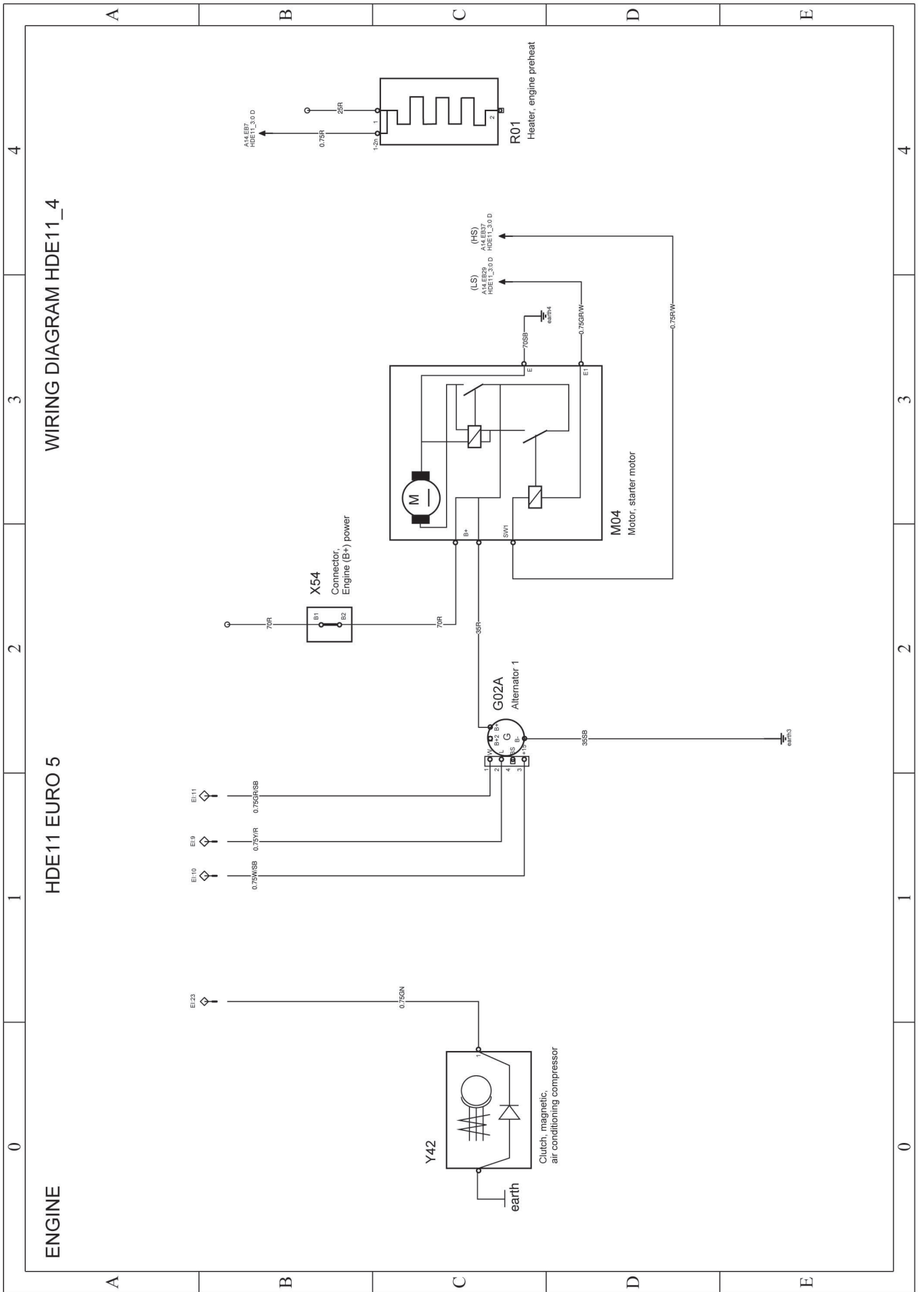




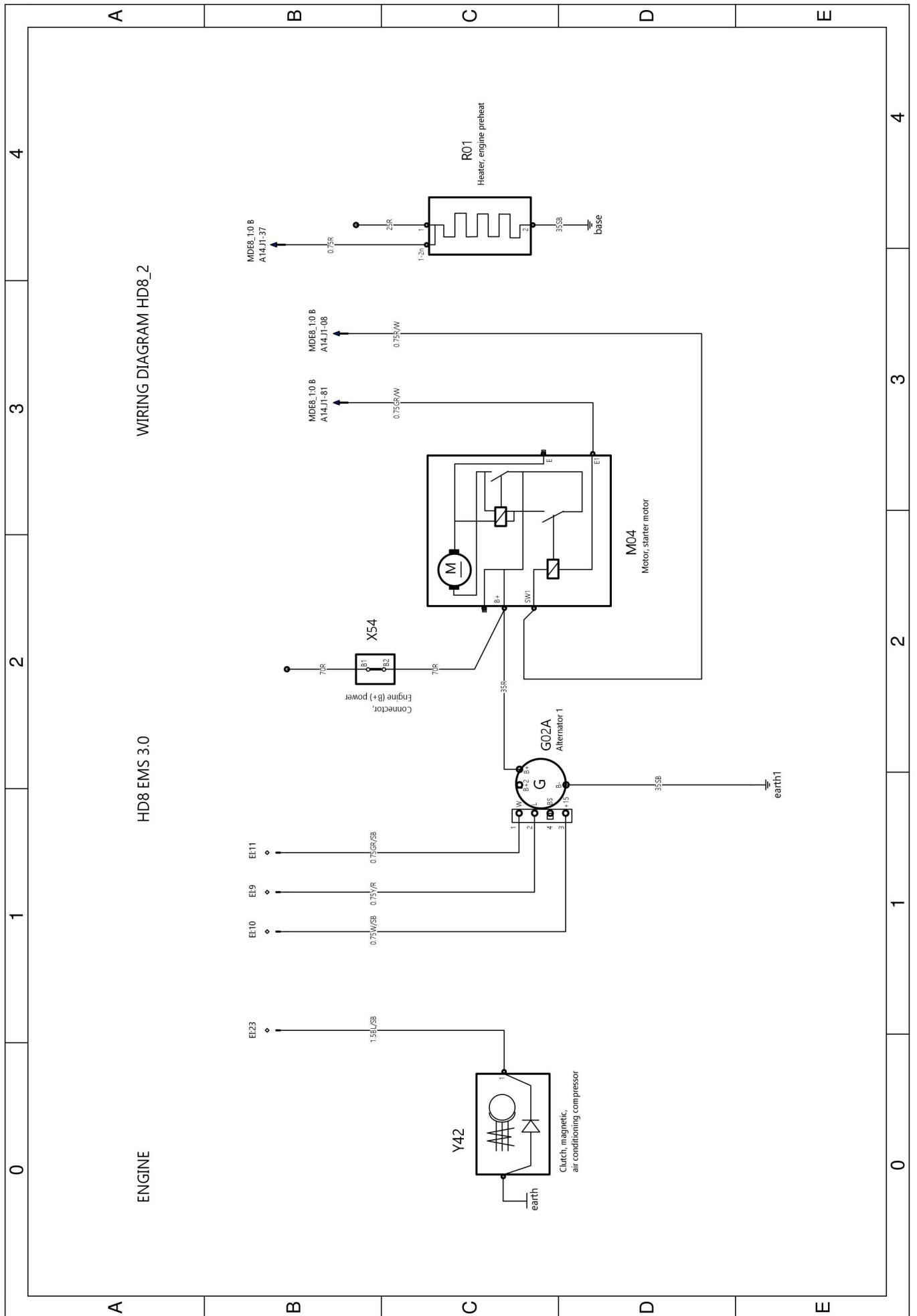




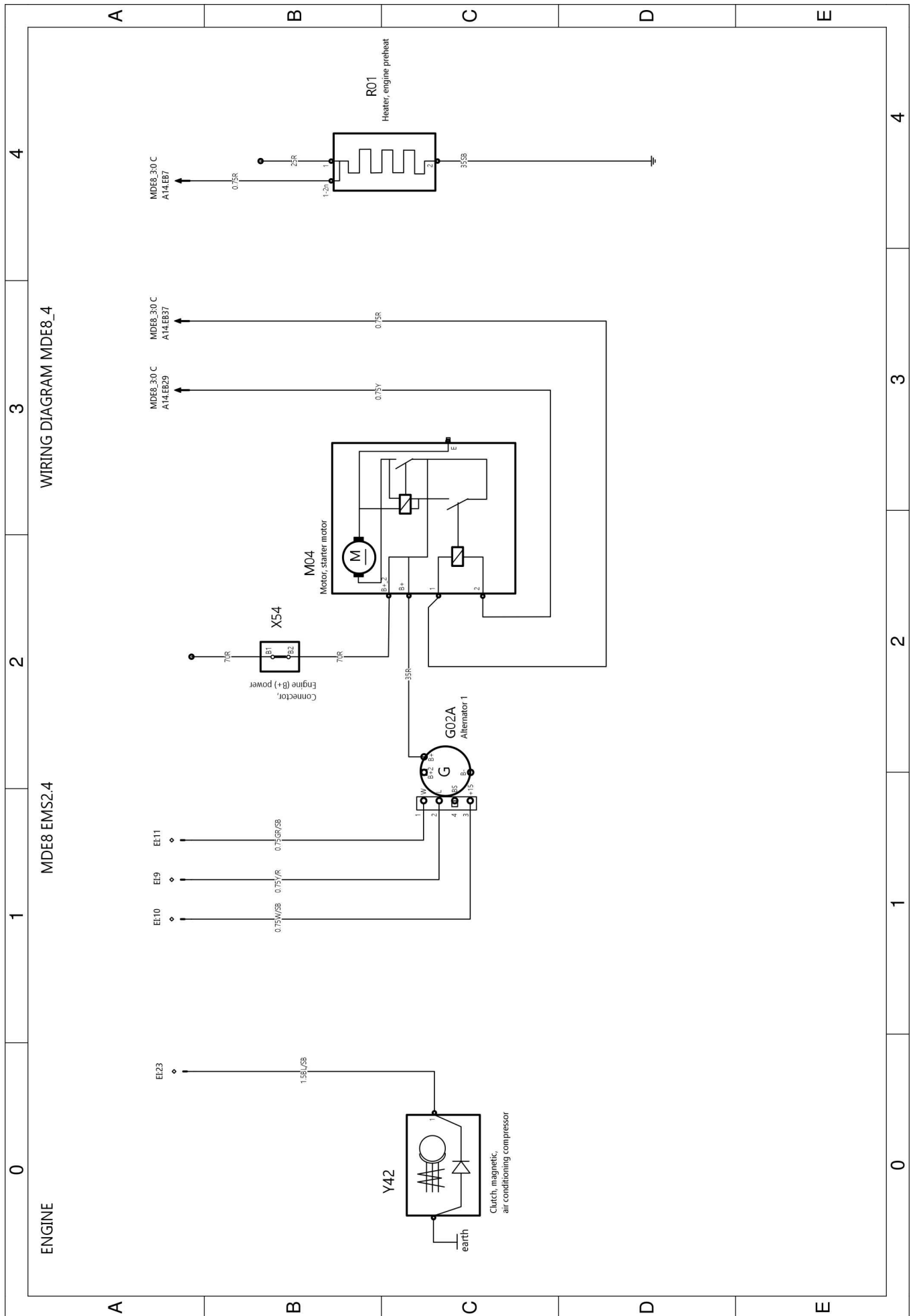


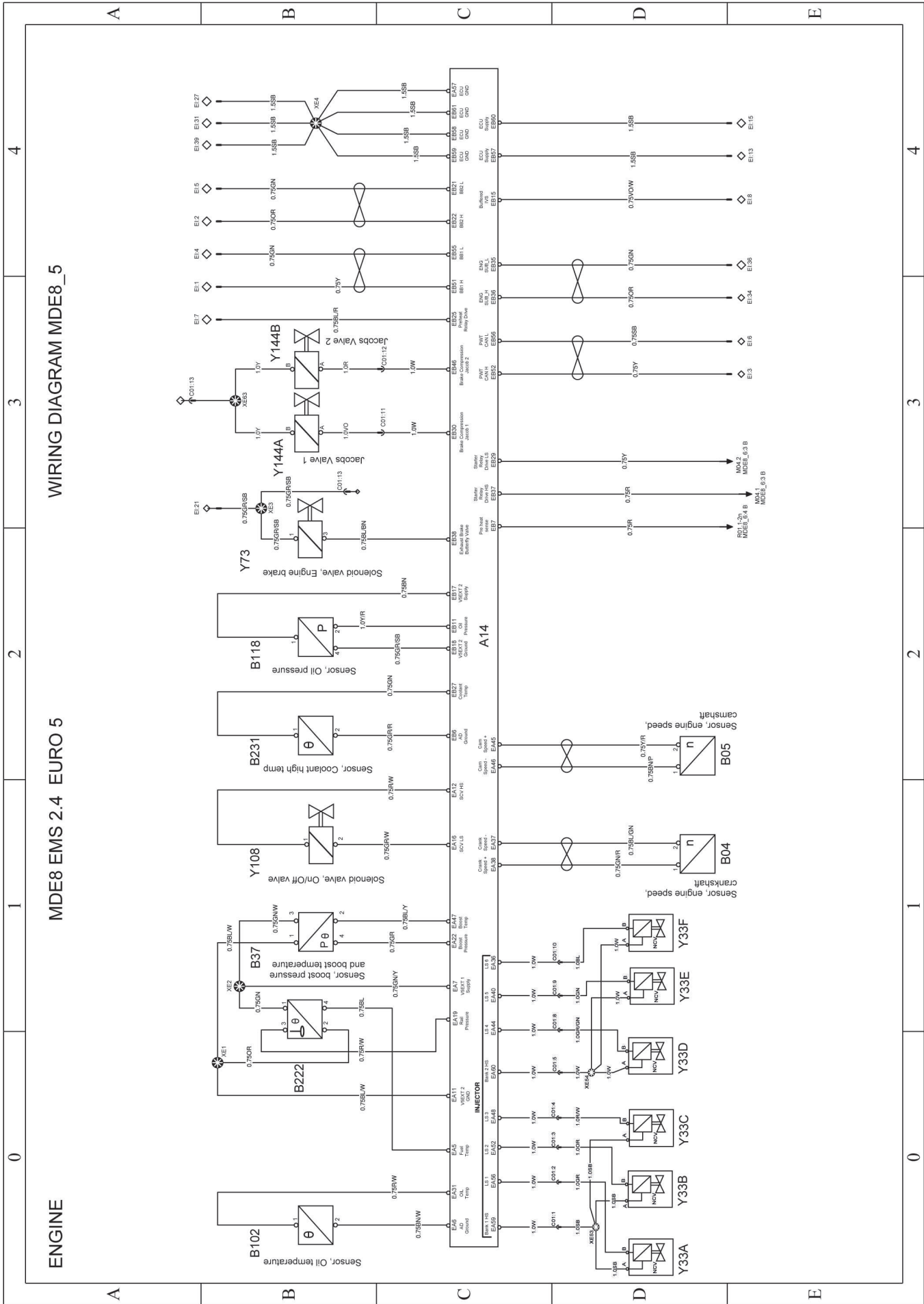


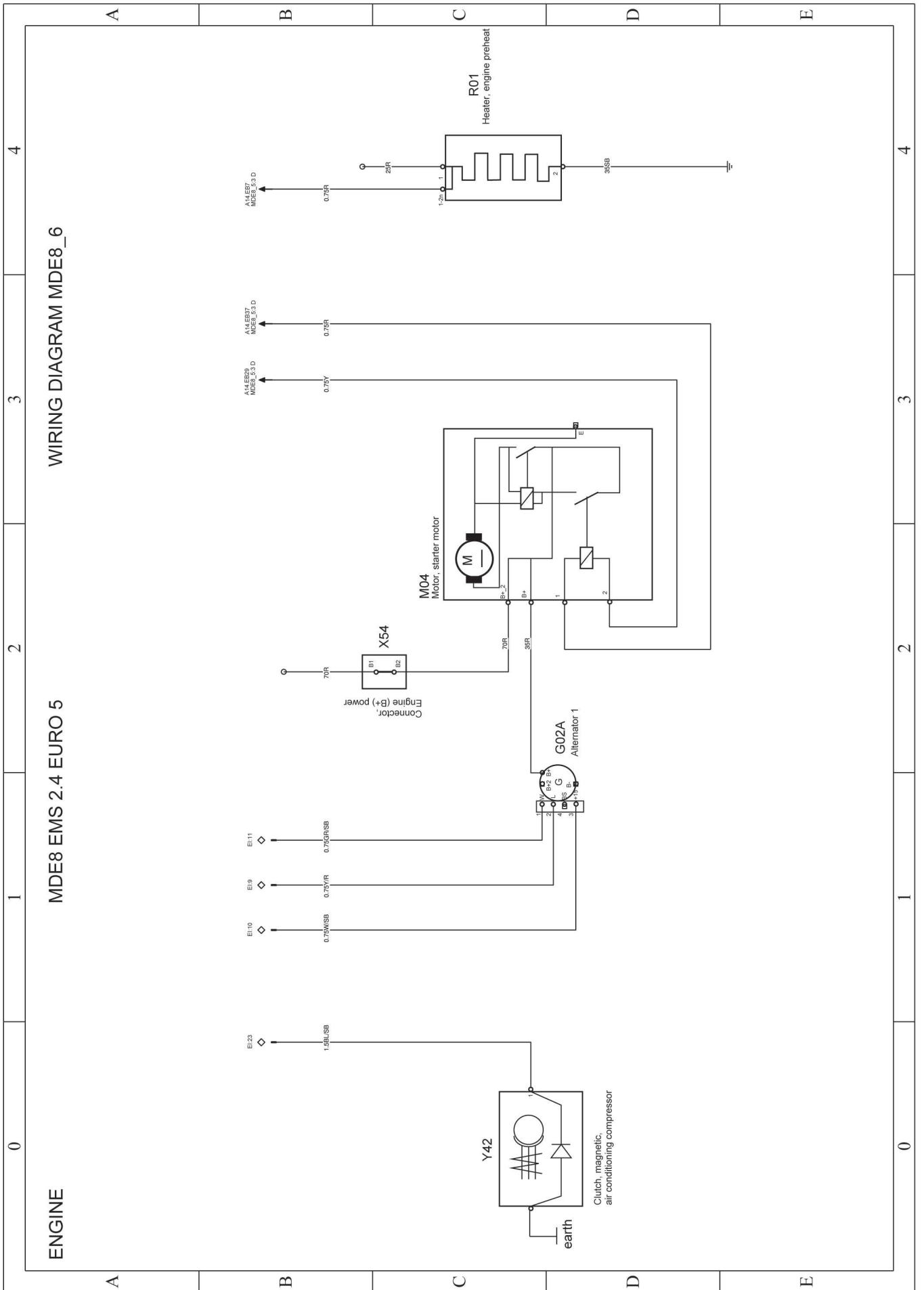








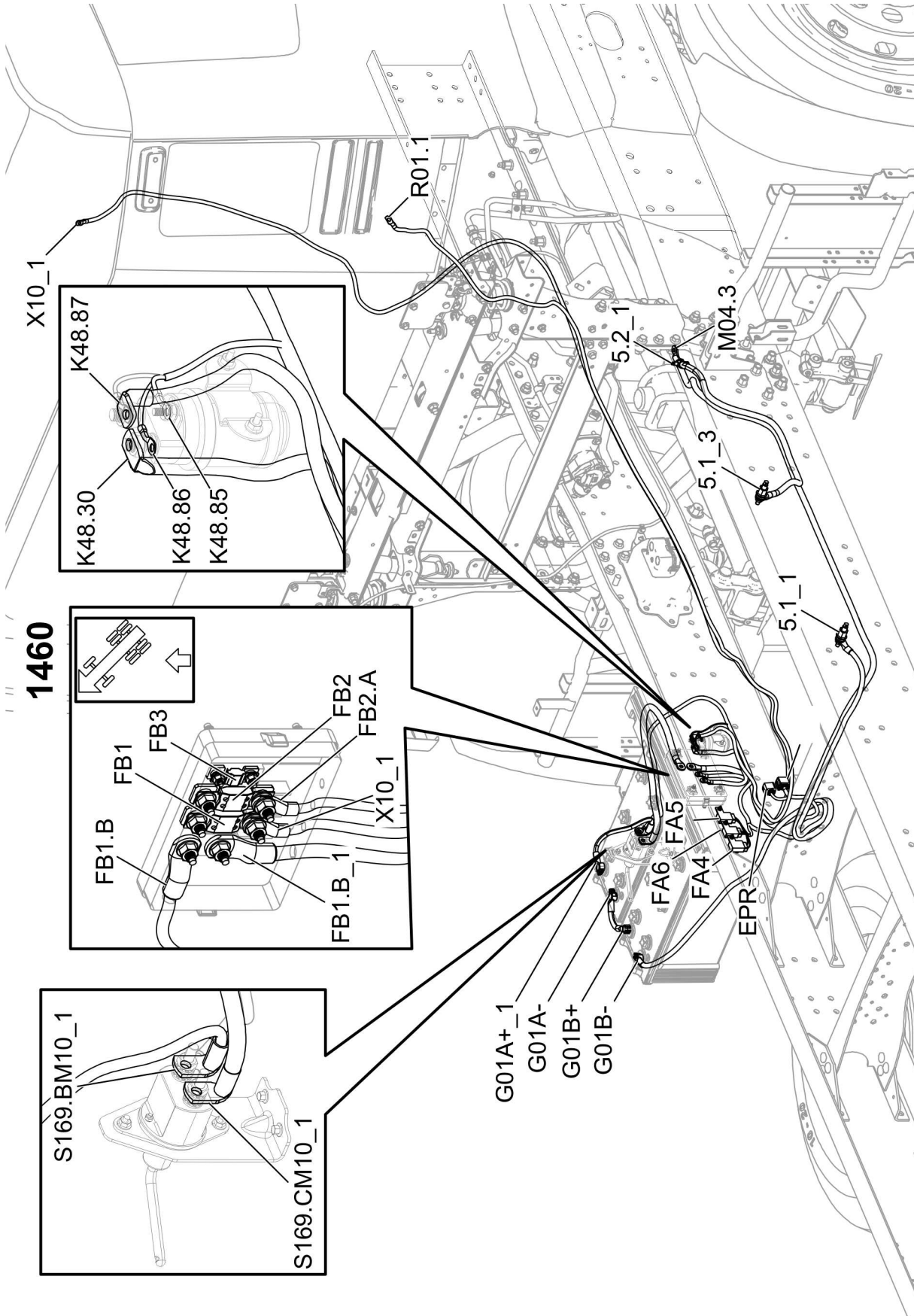




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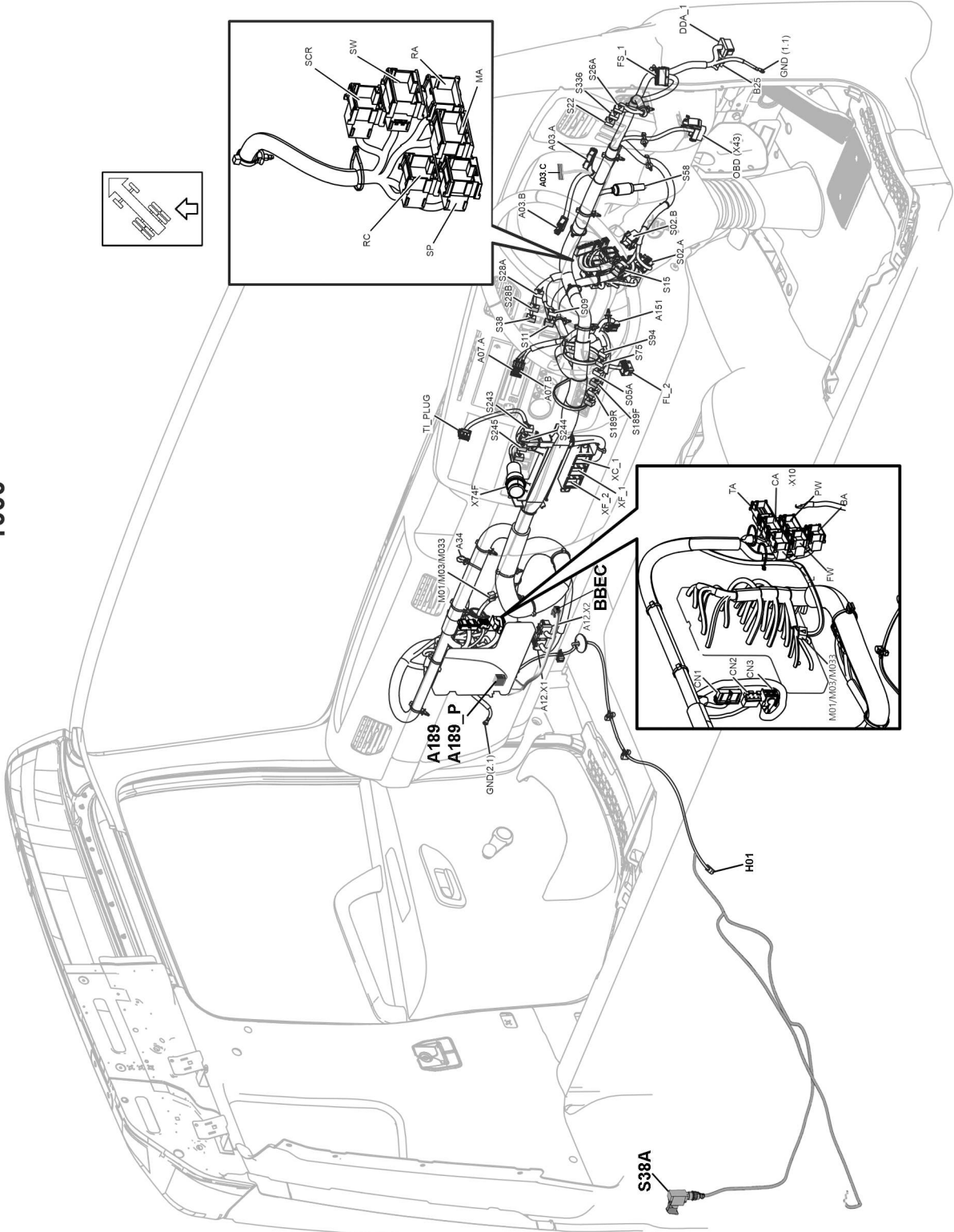
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# Illustrations



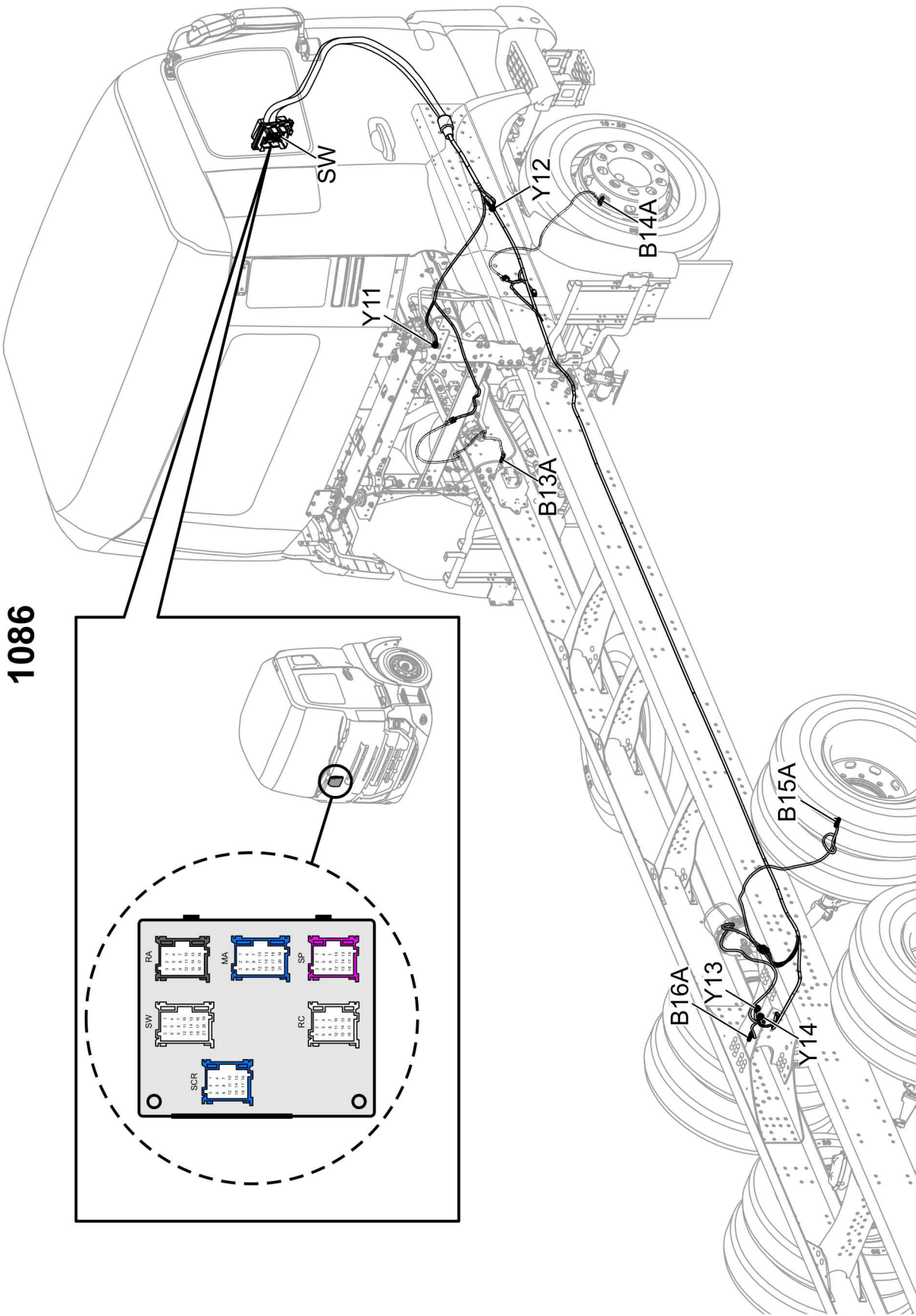
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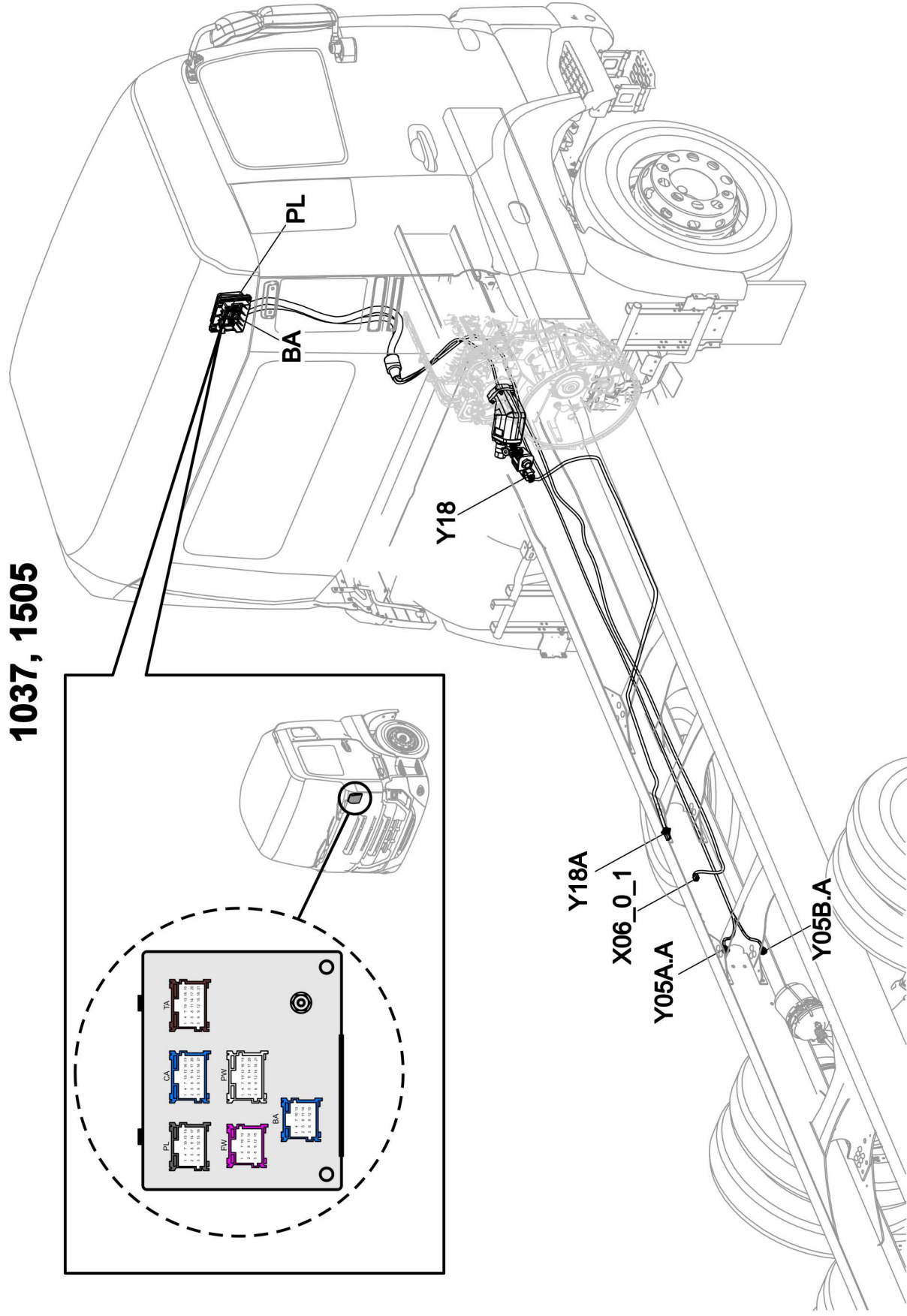
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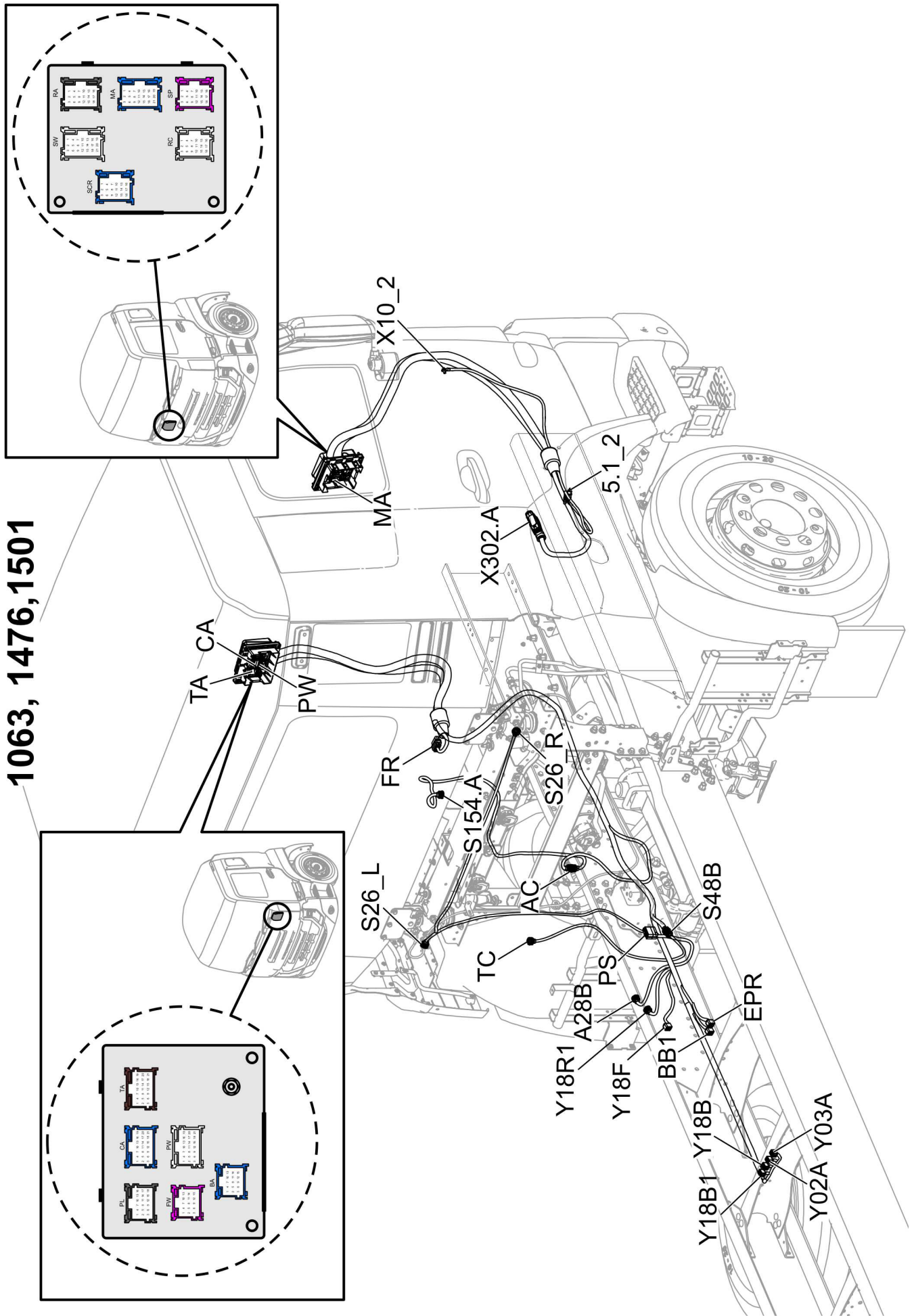
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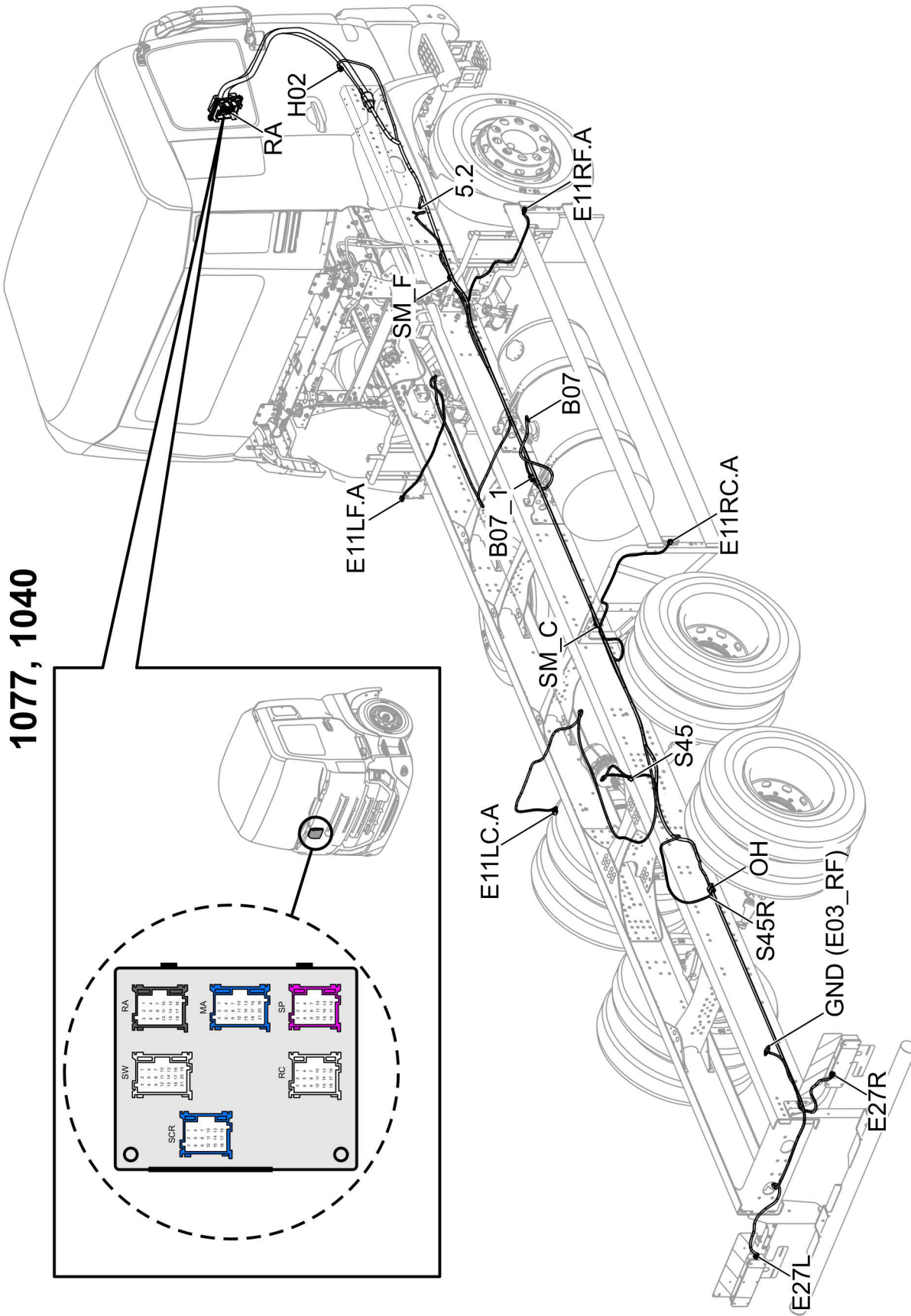


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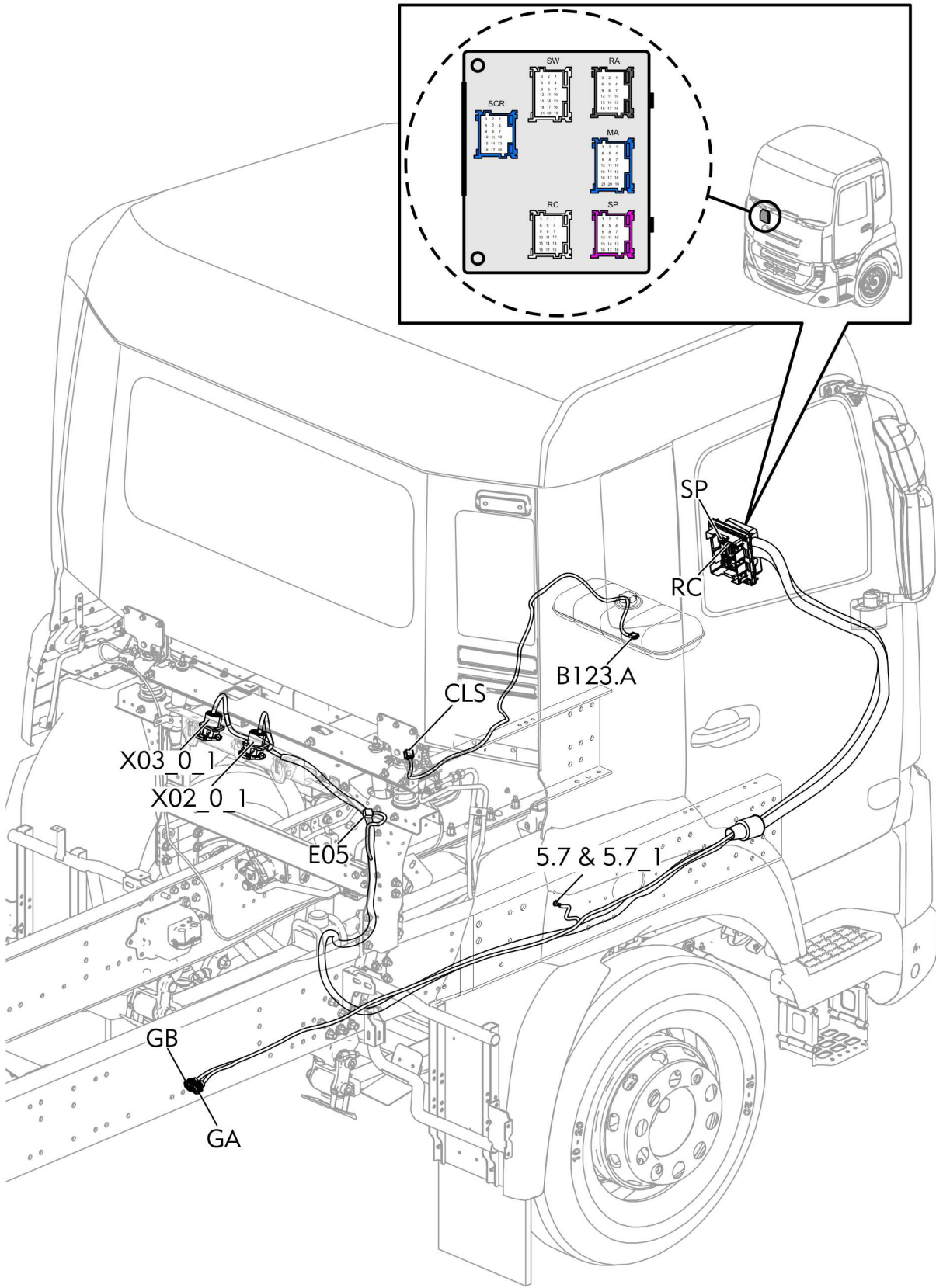
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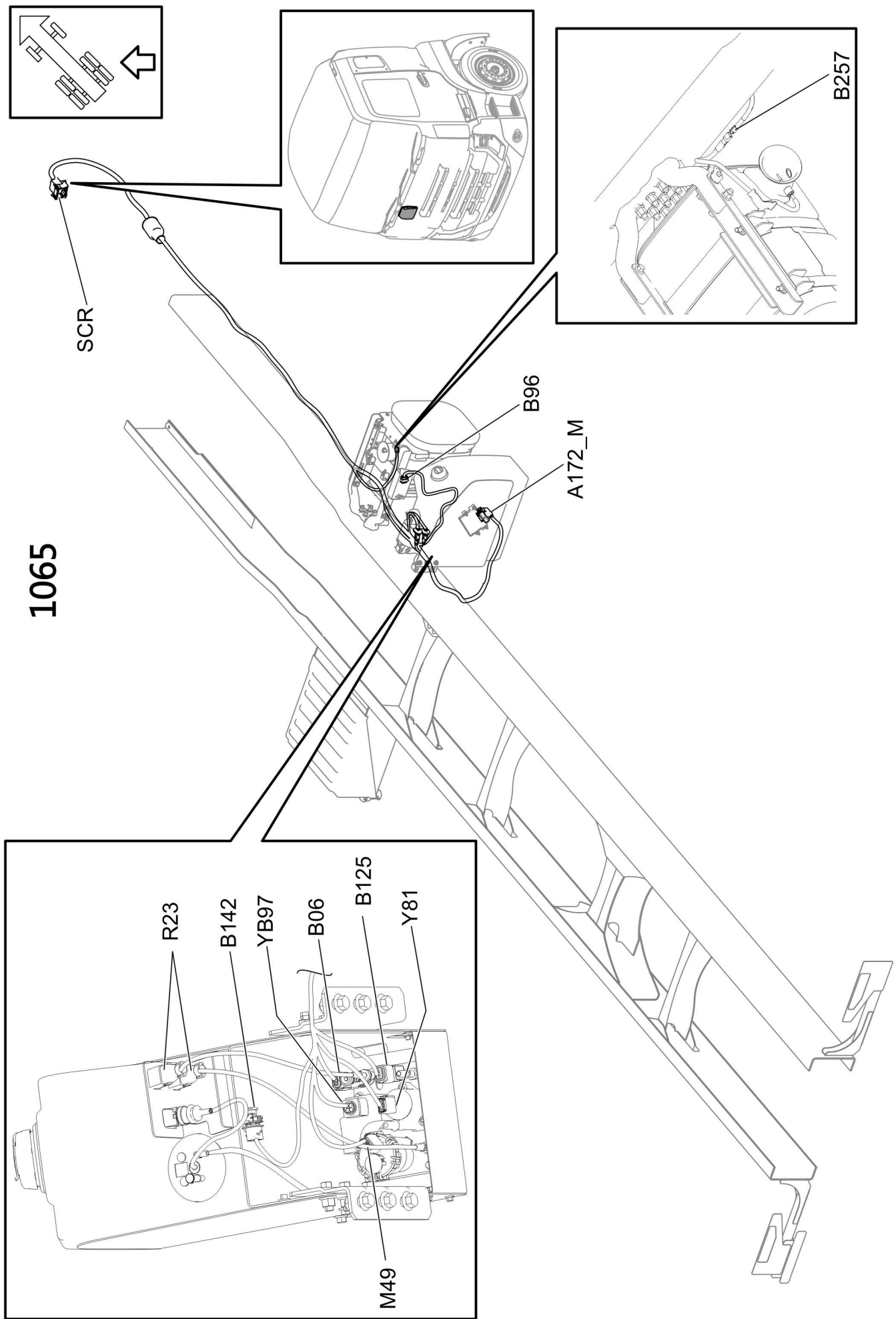
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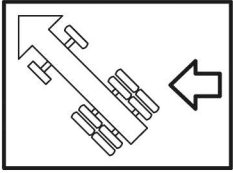


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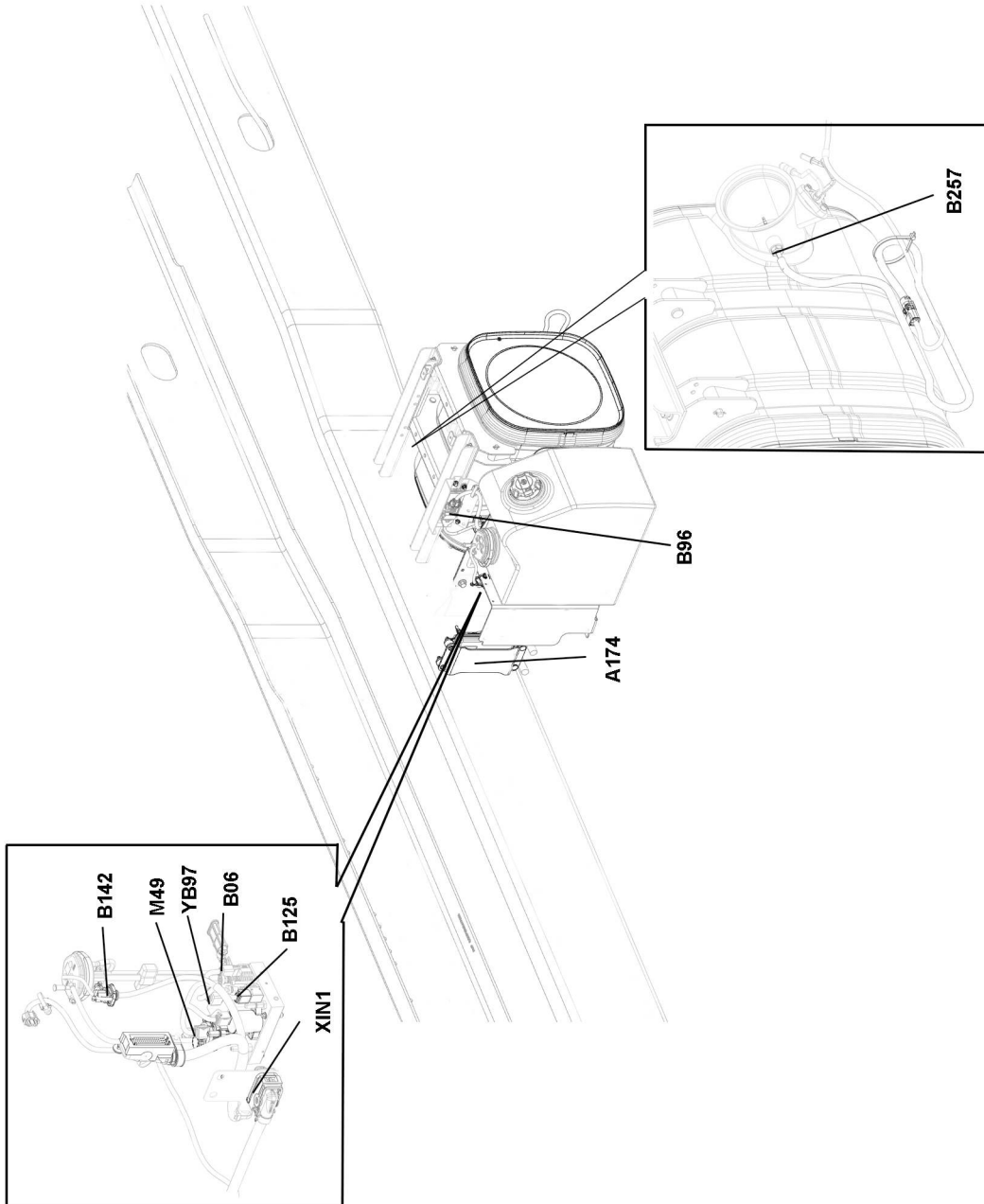


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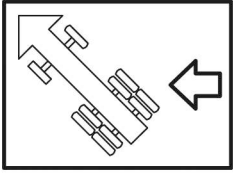




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EURO 5 8L, FAA10

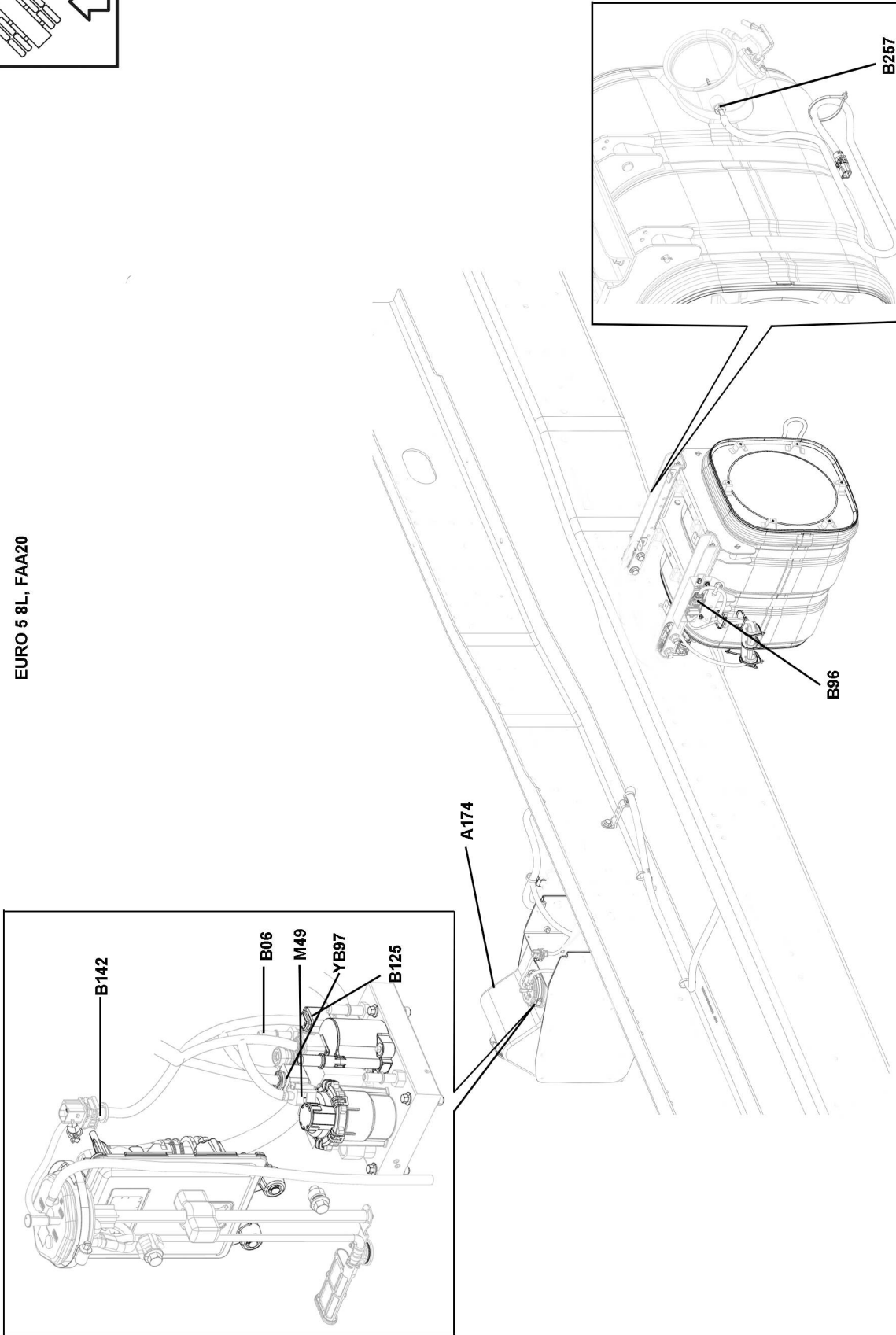


7



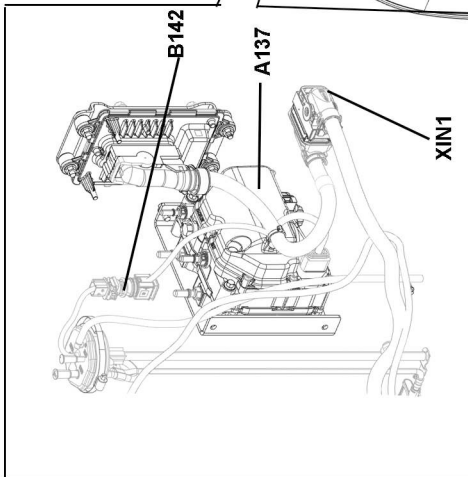
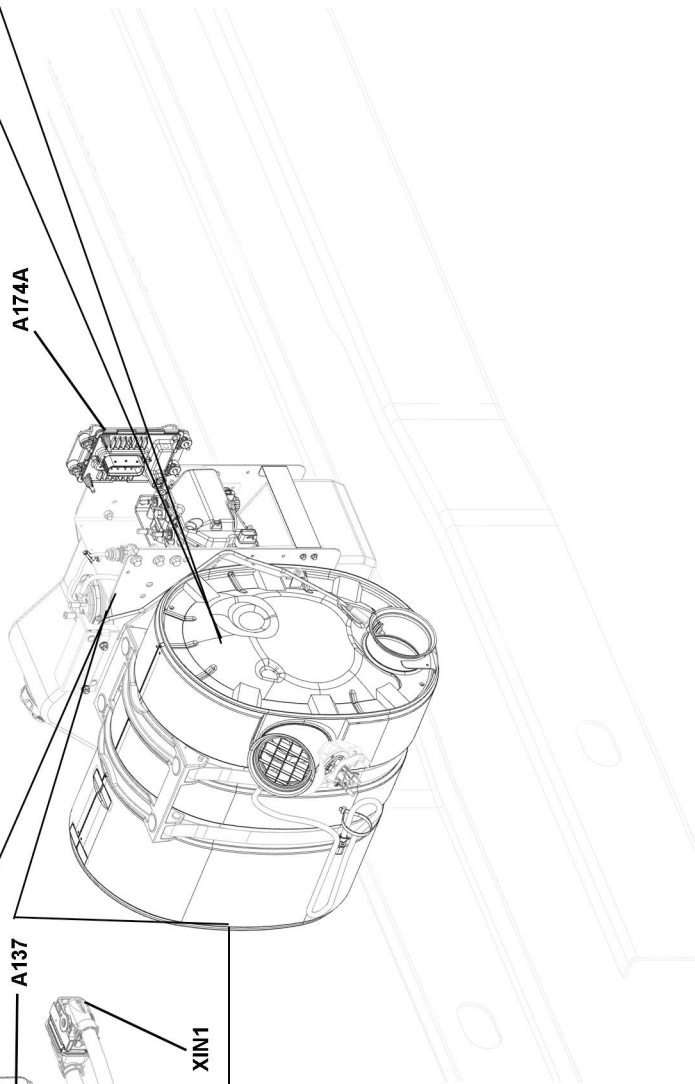
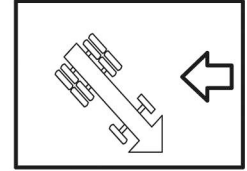
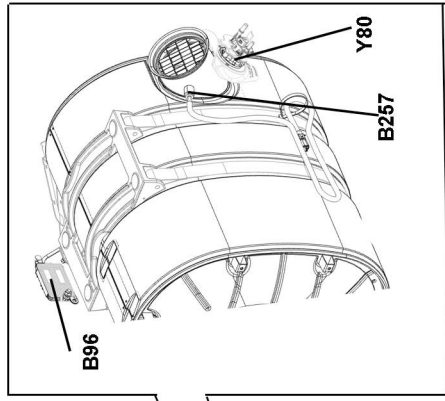
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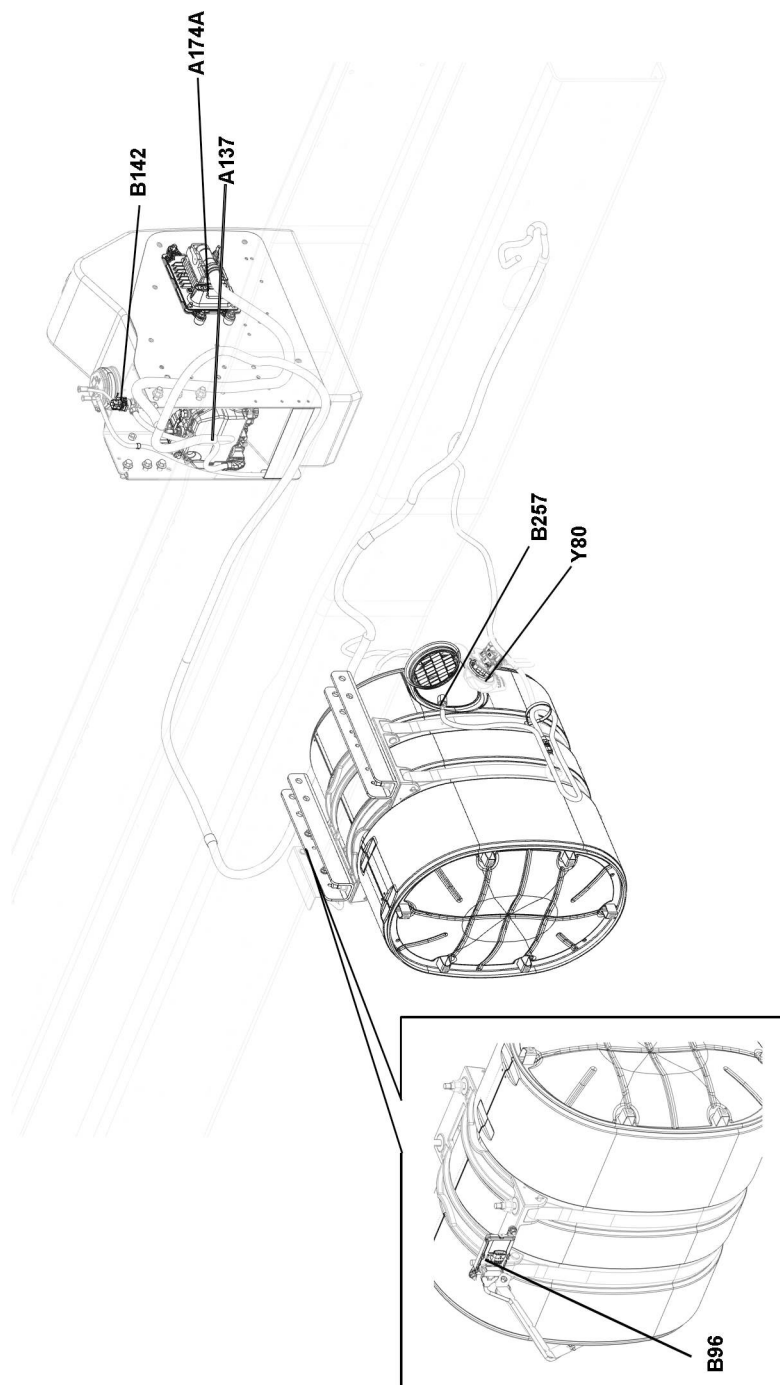
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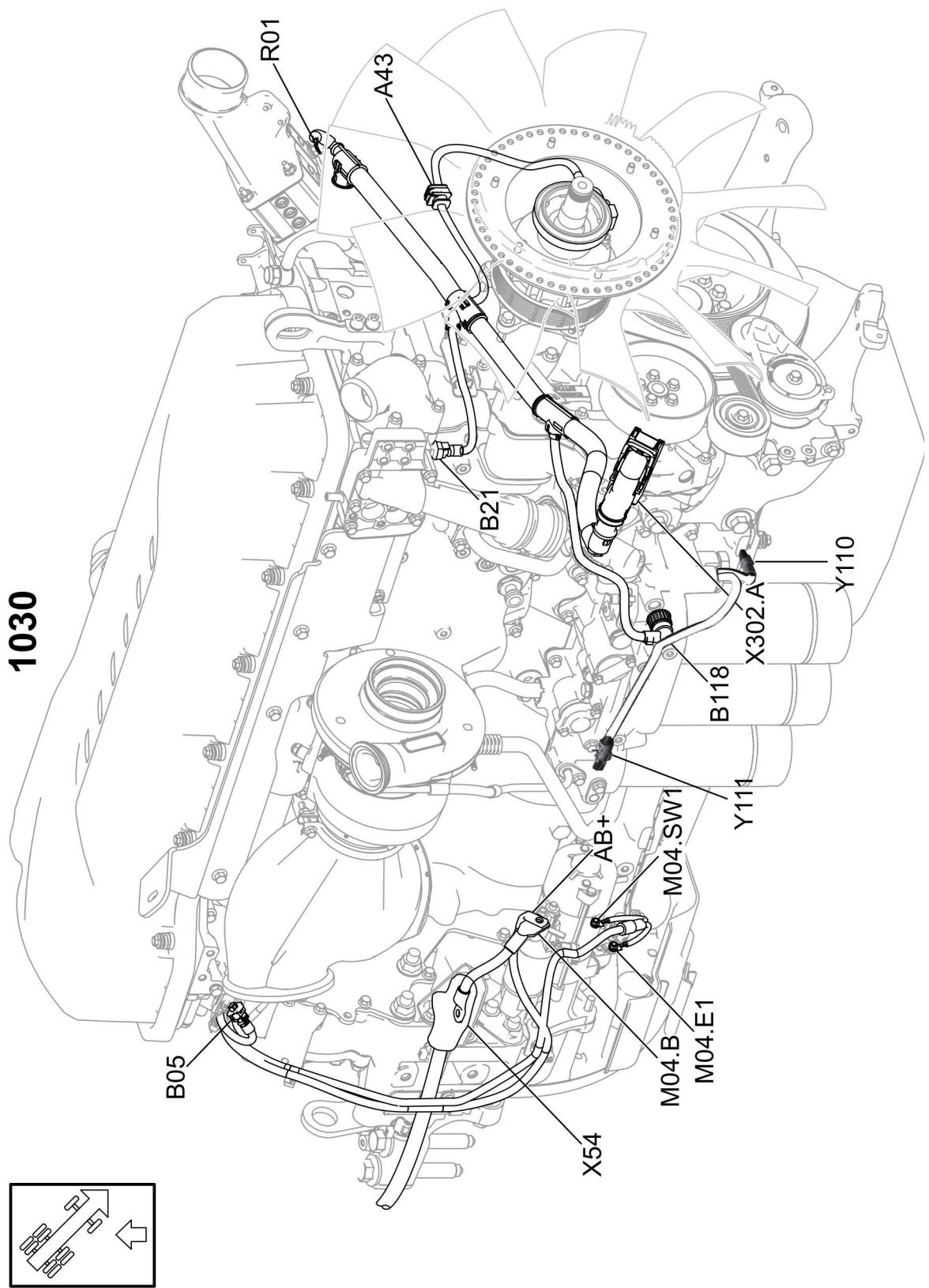


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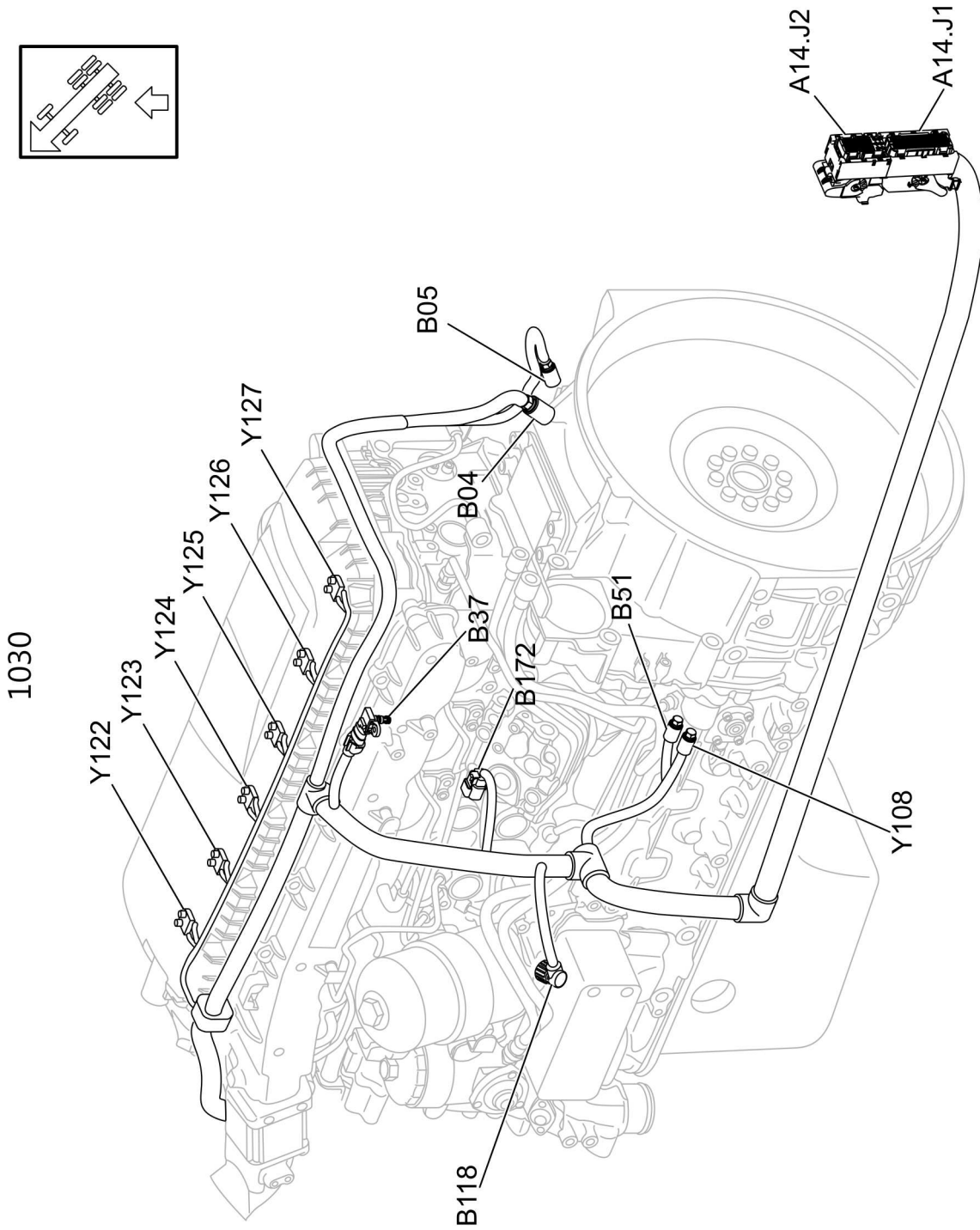
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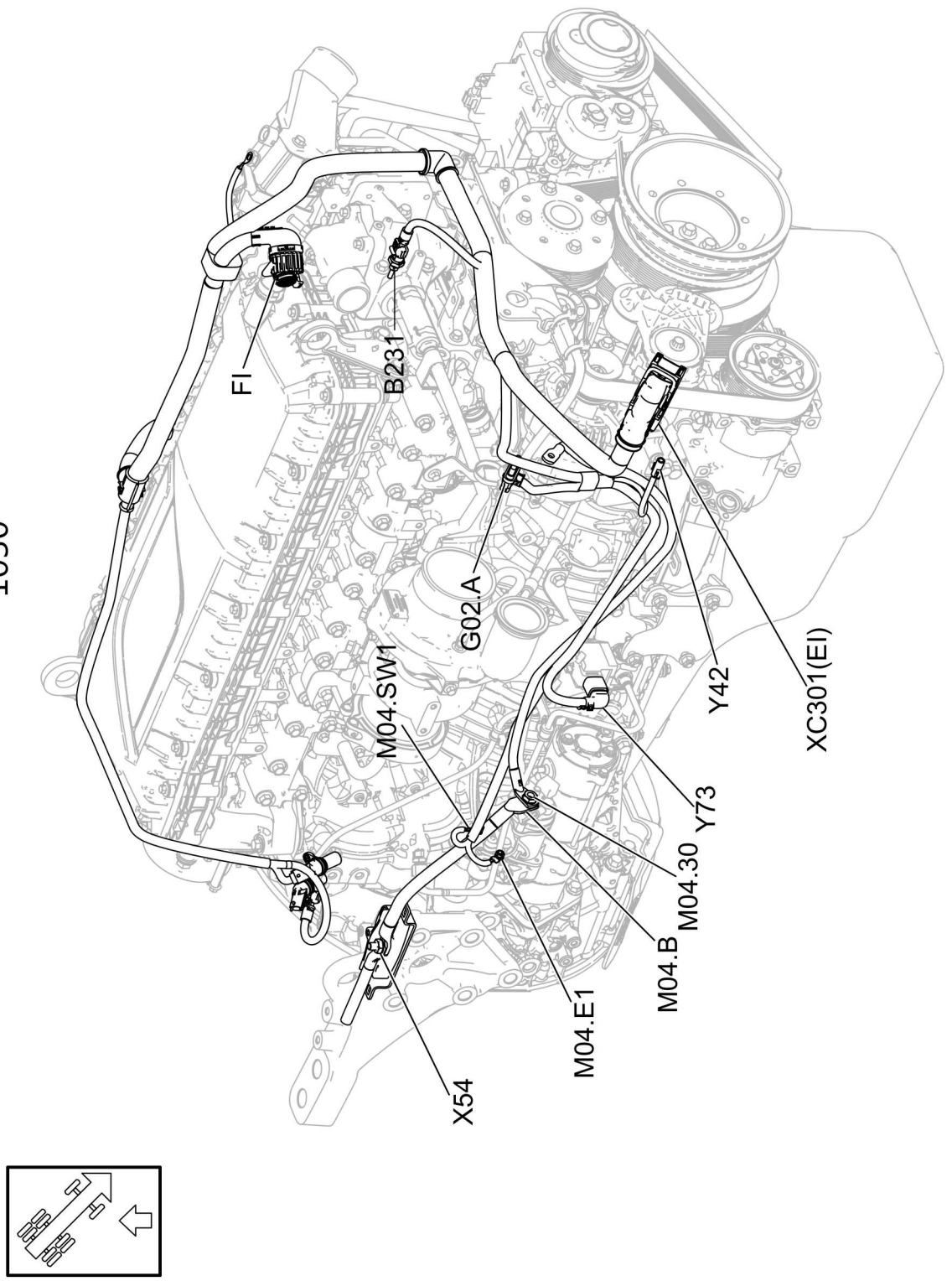


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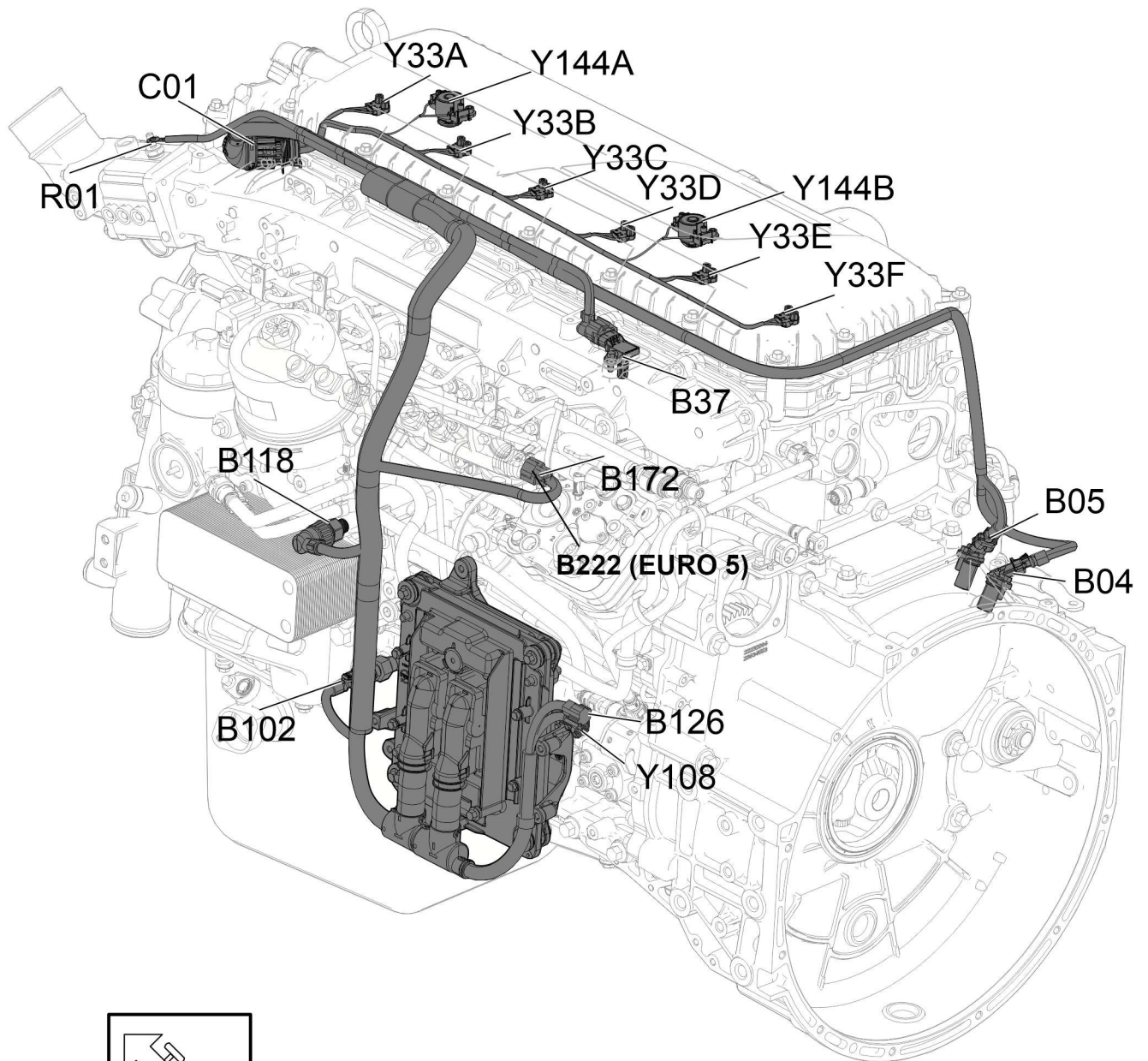


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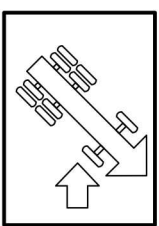
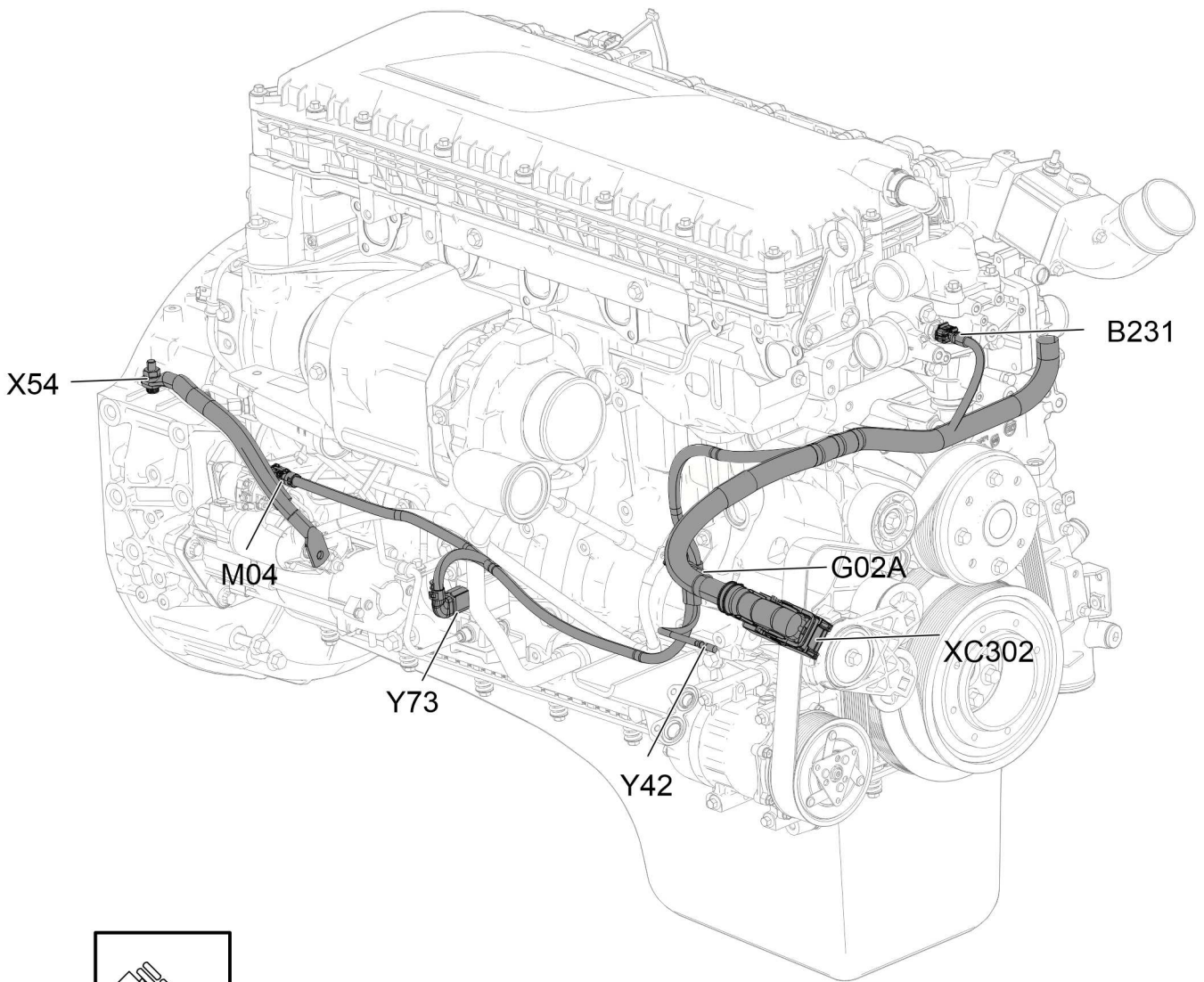
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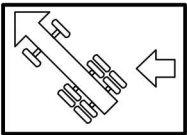
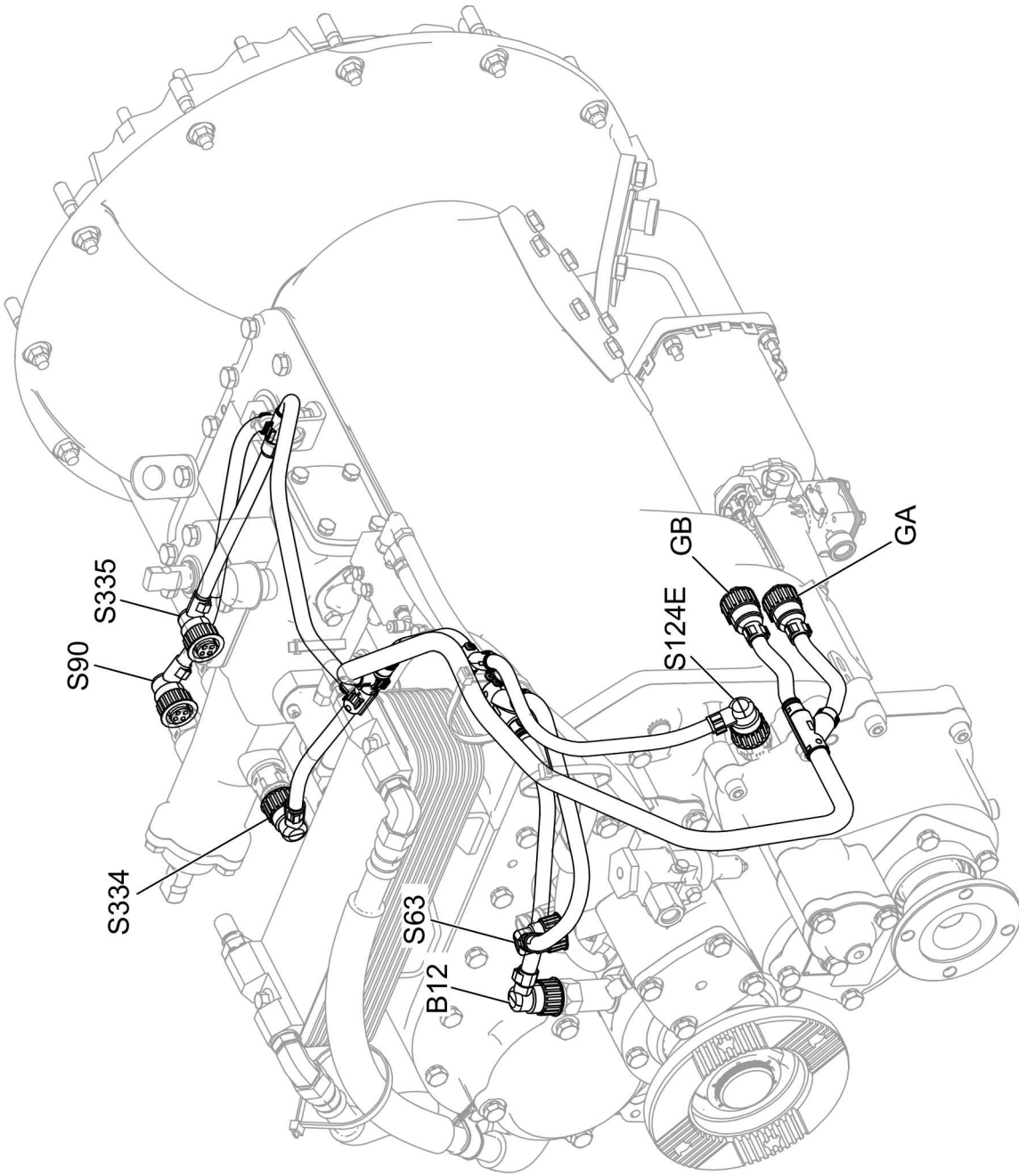
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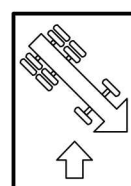
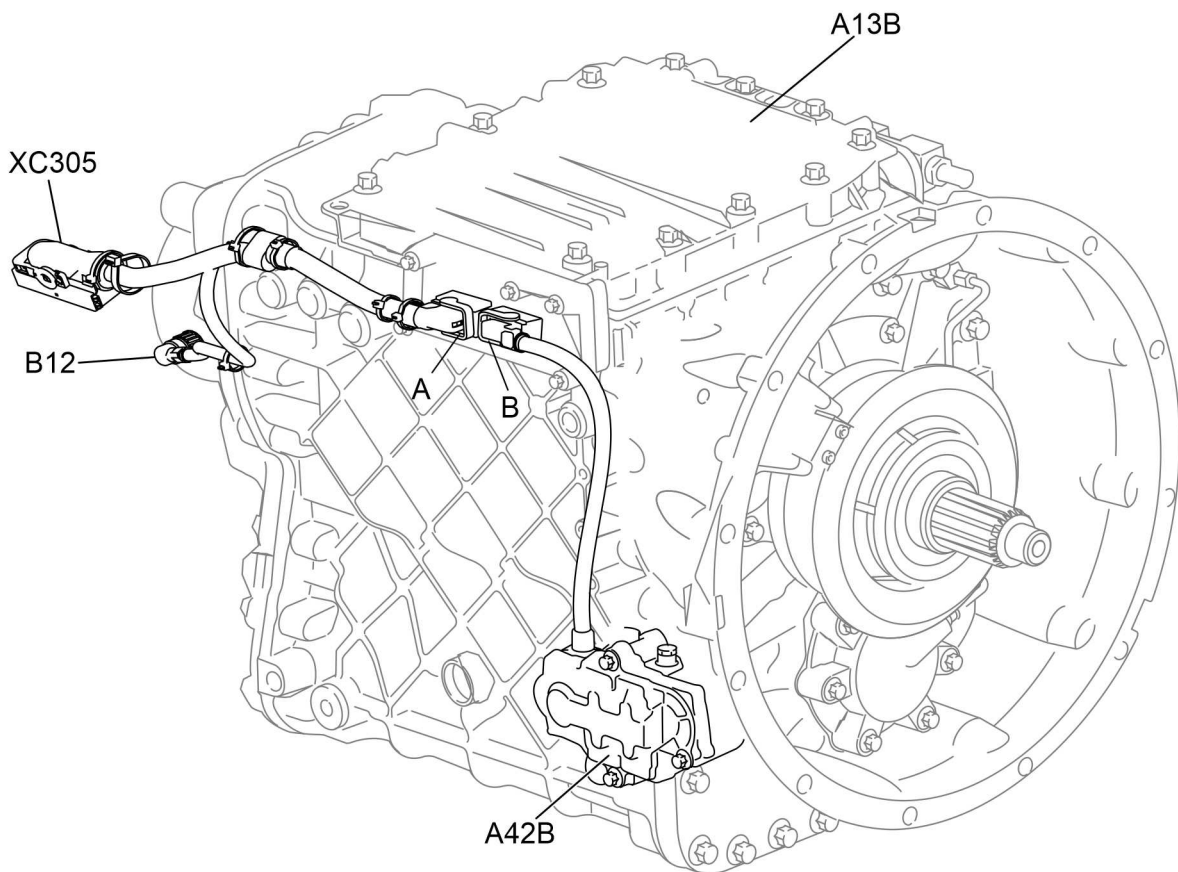


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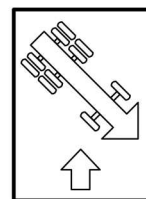
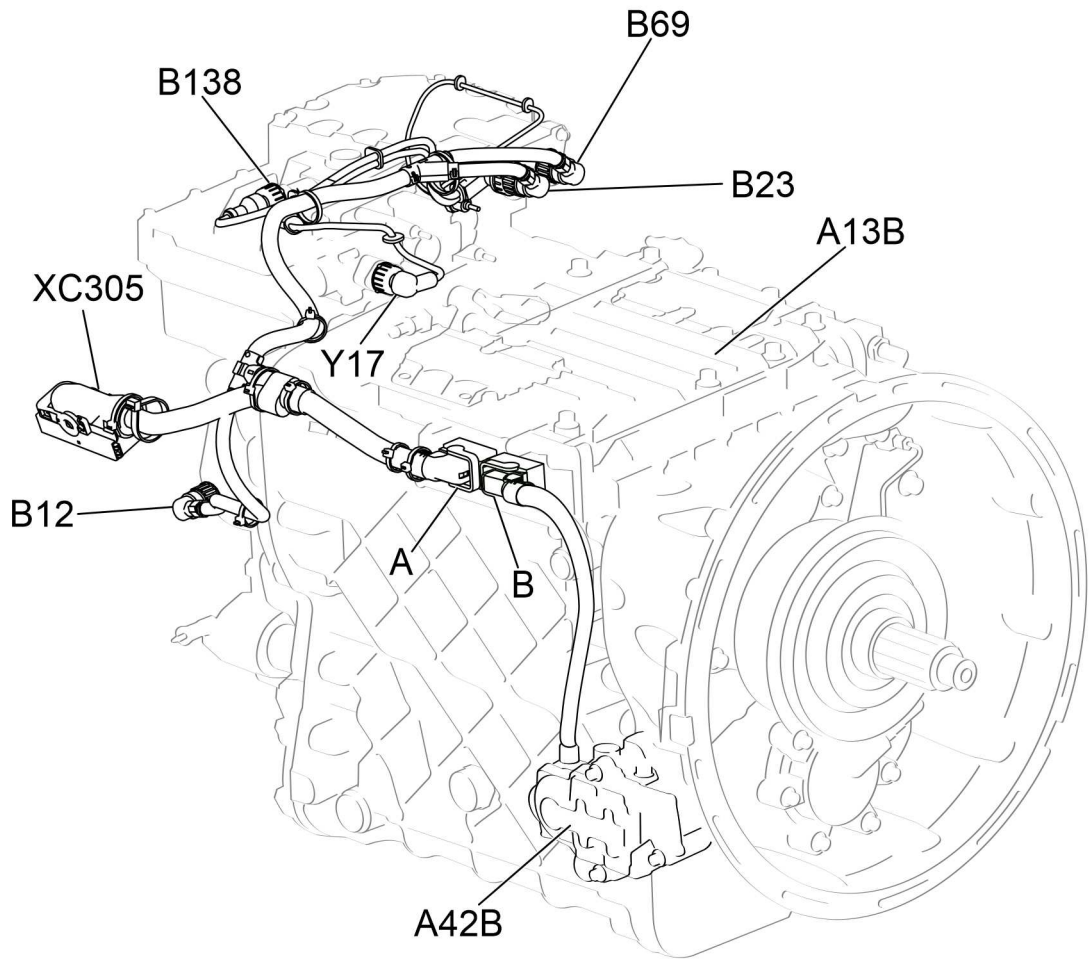


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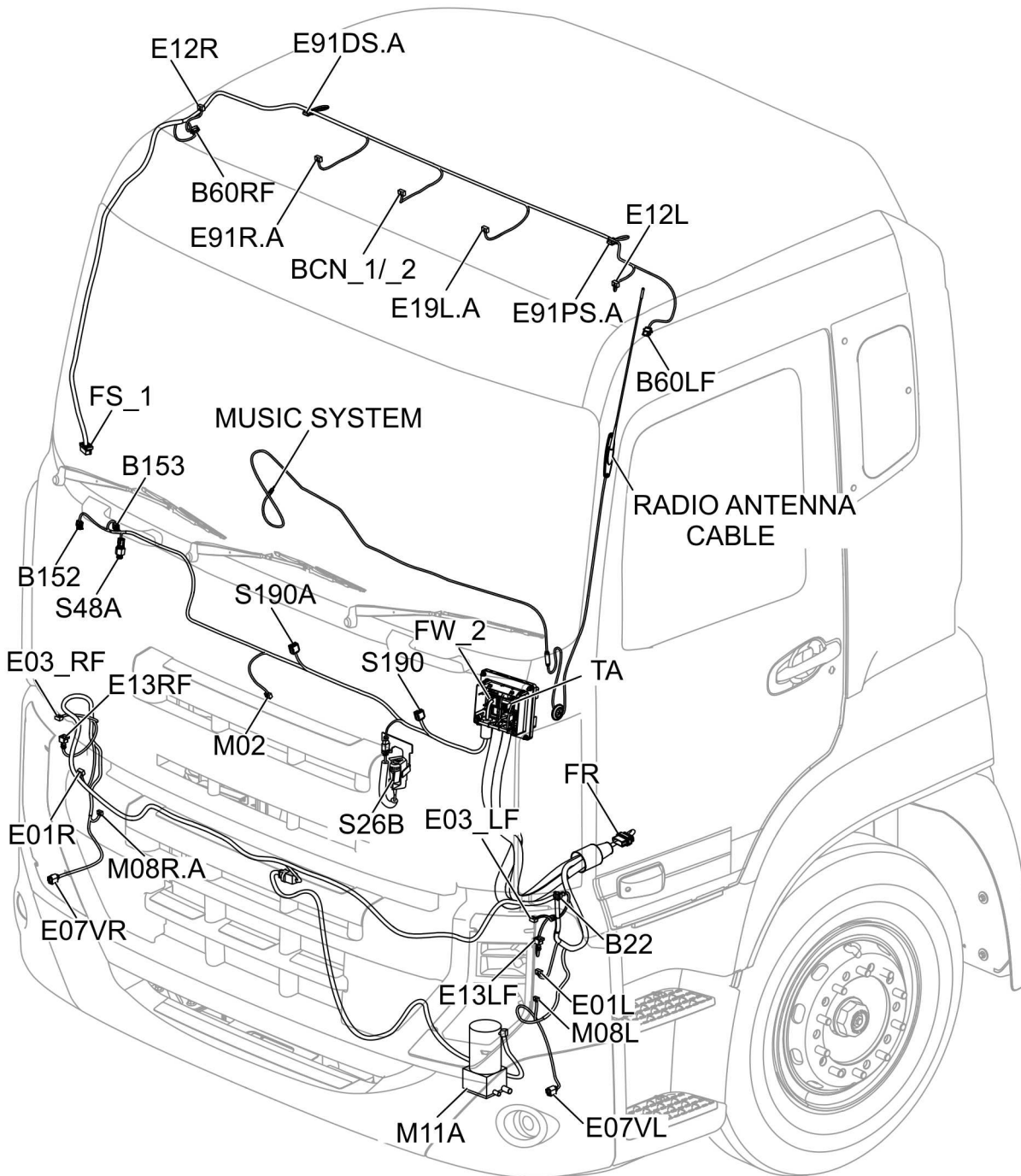
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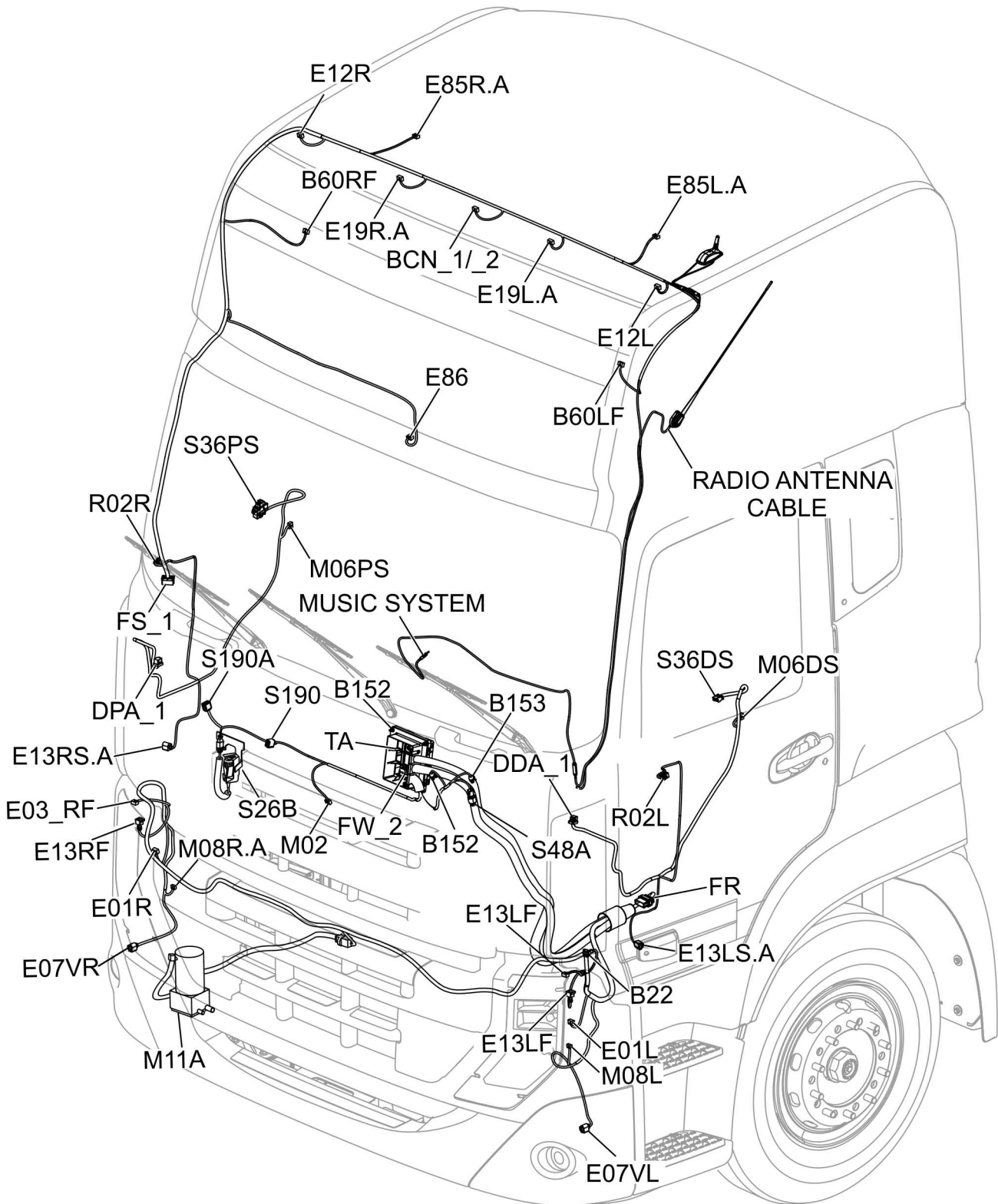


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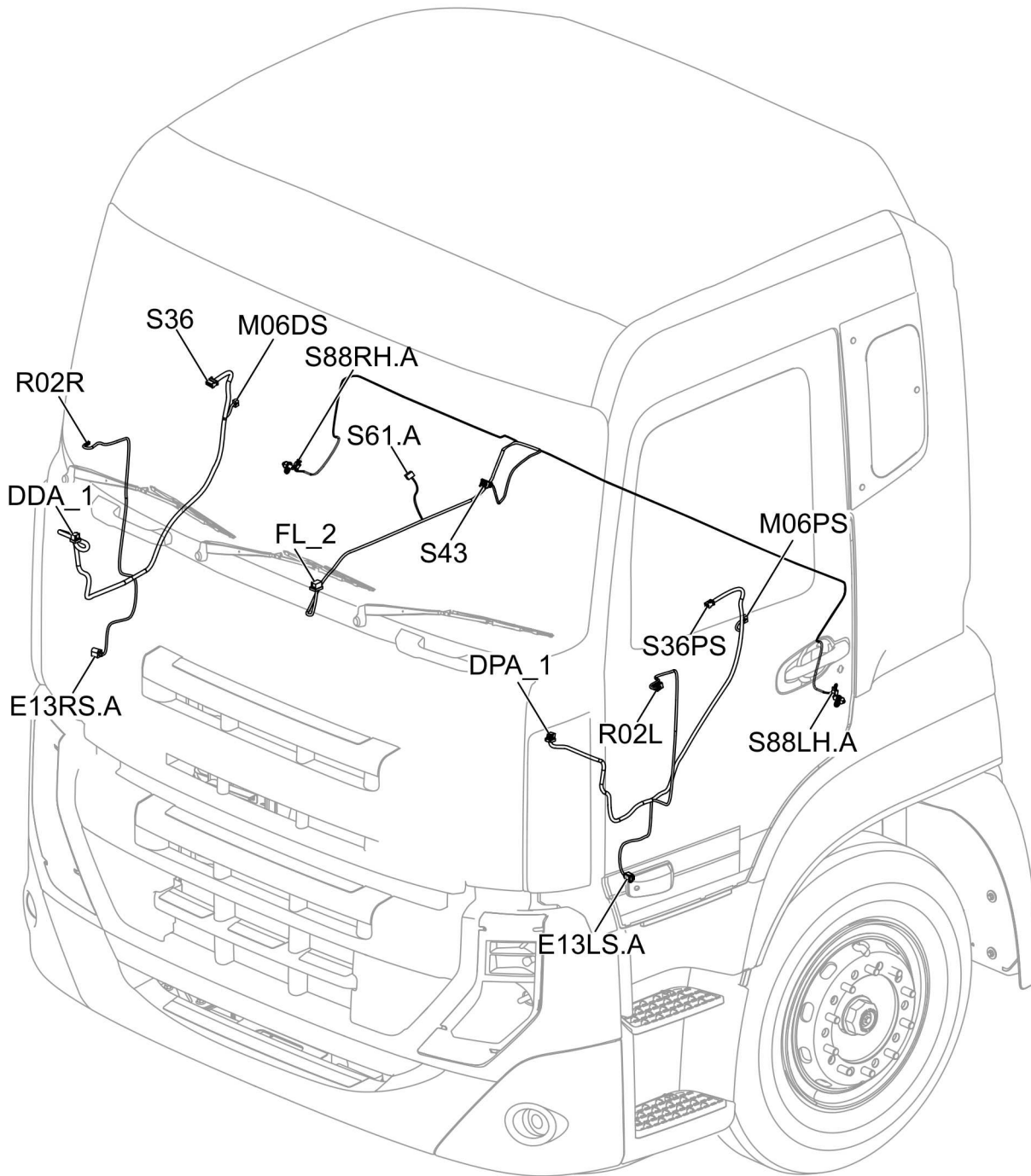
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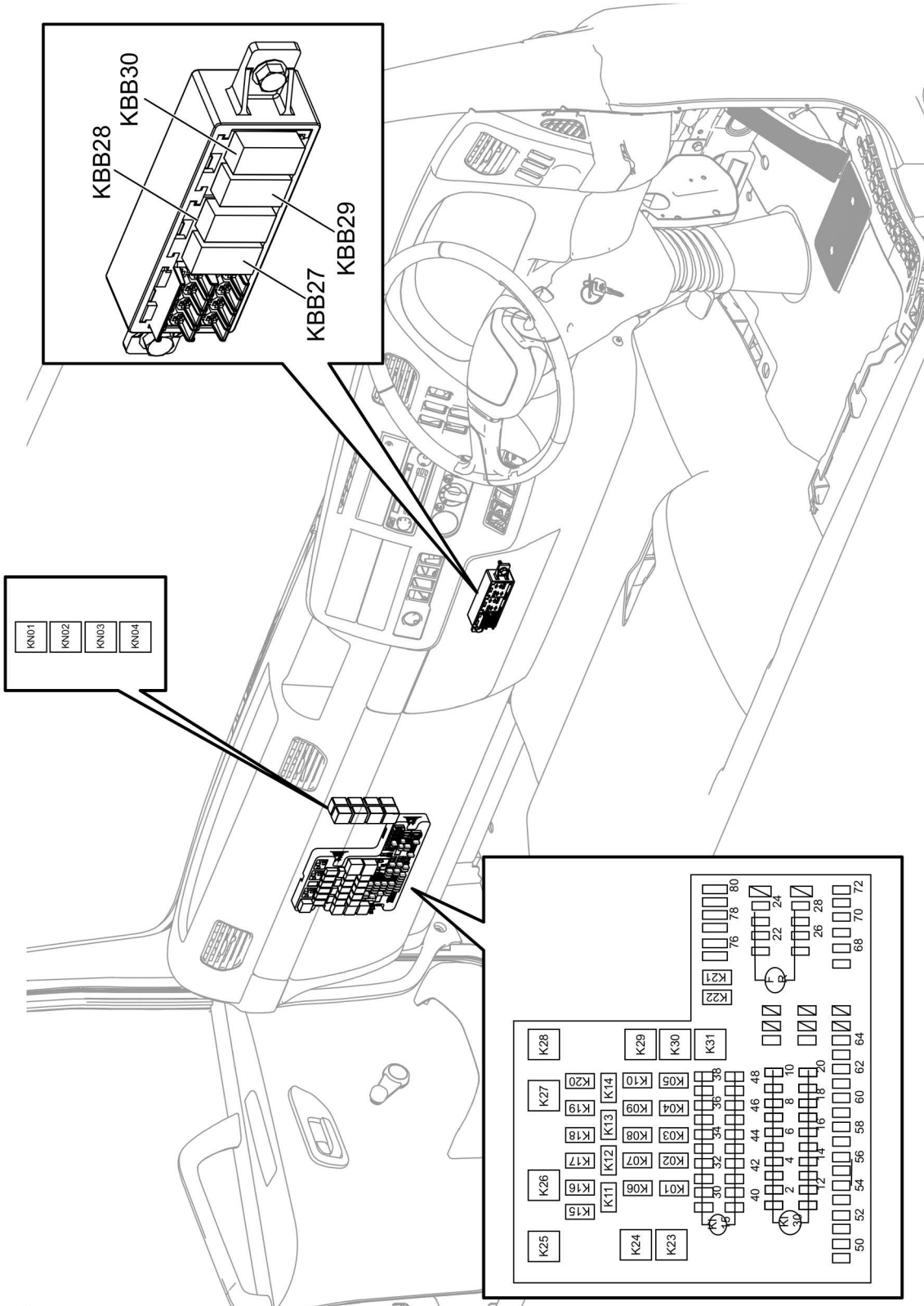
T3140354

# 1083, 1007



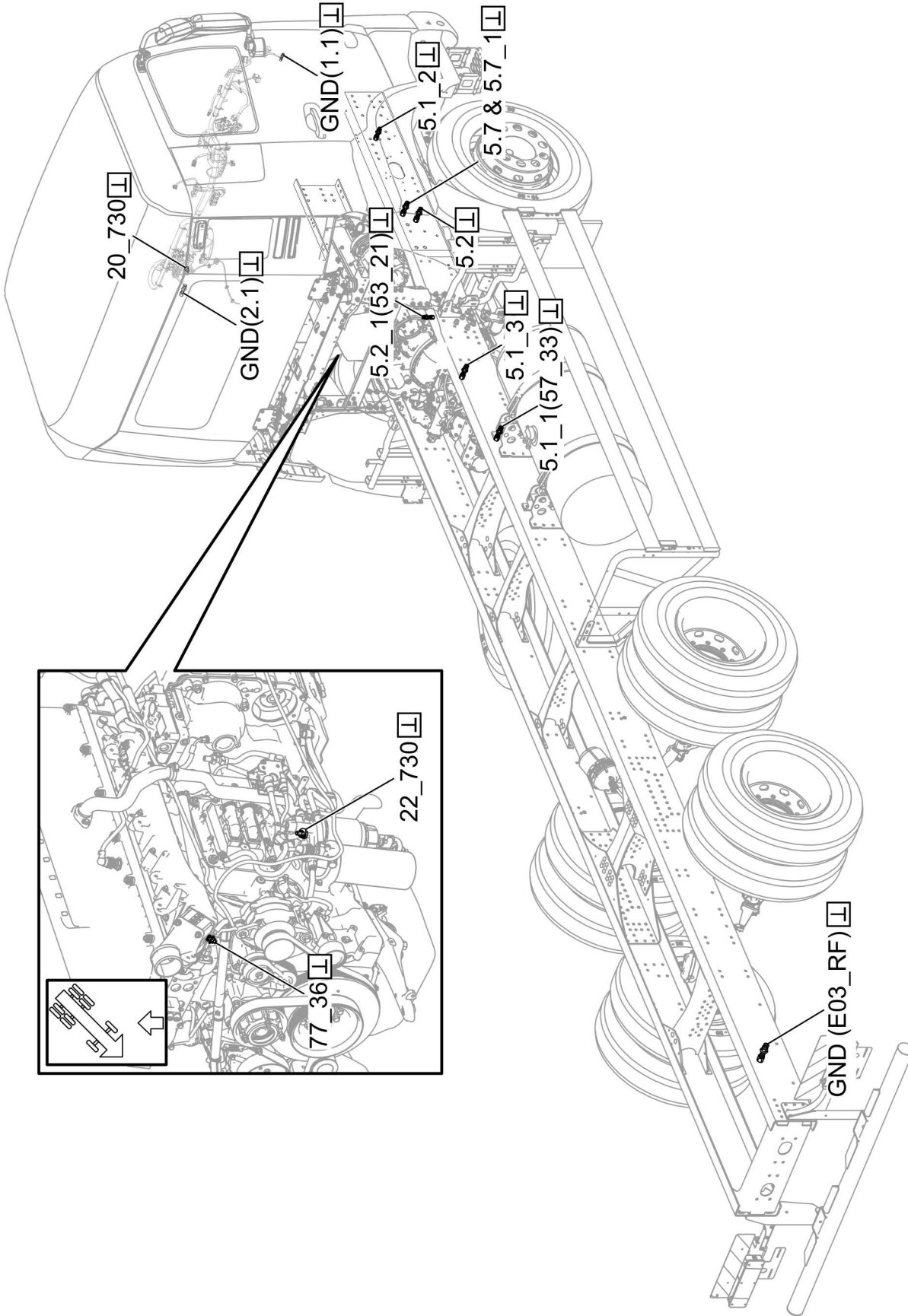
T3081106

# Fuses and Relays



T3130063

# Ground connections



T3081148

## List of Components

Reference	Description	Location
A03	Instrument Cluster . . . . .	{BA 0 C} (1000)
A07	CONTROL UNIT, Audio . . . . .	{IK 1 C} (1000)
A12	CONTROL UNIT, ABS (Anti-lock Brake System) . . . . .	{EA 1 B} (1000)
A14	Control unit, EMS (Engine Management System) . . . . .	{HD11_1 3 C} {HD11_3 1 C} {HD8_1 0 C} {MDE8_3 2 C} {MDE8_5 2 C} (1030)
A34	CONTROL UNIT, Climate unit . . . . .	{CM 2 D} (1000)
A41	RET-TH Sensor . . . . .	{AMT1 2 C}
A43	Component group engine. Contains B32 and Y35 . . . . .	{HD11_1 3 B} {HD11_3 2 B} (1030)
A45	Component group engine. Contains B52, R10 and Y38. . . . .	{HD11_1 3 B} {HD11_3 2 B} (1030)
A57	Control unit, ATCU 3200 . . . . .	{DB 1 C} {DB1 2 A}
A125	CONTROL UNIT, TGW (Telematics Gateway) . . . . .	{BU 1 C}
A137	Pump unit. . . . .	{CV4 3 E} (1065)
A149	CONTROL UNIT, IECU (Integrated Electronic Control Unit) . . . . .	{BE 0 C} (1000)
A149B	CONTROL UNIT, IECU 2.0 (Integrated Electronic Control Unit) . . . . .	{BE_1 1 C} (1000)
A151	Control Unit, Flasher Controller . . . . .	{GE 1 B} (1000)
A160A	CONTROL UNIT, LIM . . . . .	{BG 2 C}
A172_M	ACM 3.0 . . . . .	{CV2 0 C} (1065)
A174	CONTROL UNIT, ACM (After treatment Control Module) . . . . .	{CV 0 C} {CV1 1 B} {CV3 2 C}
A174A	ACM (After treatment Control Module) . . . . .	{CV4 0 C} (1065)
A189	BBM Unit . . . . .	{BM 1 D} (1000)
A189_P	BBM Unit . . . . .	{BM 3 D} (1000)
A19B	Control unit, GECU Powertronic . . . . .	{DB 1 B}
A25	Murphy display . . . . .	{DC1_CA 1 D}
A28B	Control Unit, ADR main Switch . . . . .	{AC 0 C} (1063, 1476, 1501)
A34	Control unit, climate unit . . . . .	{CM 1 D}
A57	Control unit, Allison Transmission . . . . .	{DB 1 C}
B04	Sensor, engine speed, crankshaft . . . . .	{HD11_1 0 D} {HD11_3 0 D} {HD8_1 2 D} {MDE8_3 1 D} {MDE8_5 1 D} (1030)
B05	Sensor, engine speed, camshaft . . . . .	{HD11_1 1 D} {HD11_3 1 D} {HD8_1 3 D} {MDE8_3 2 D} {MDE8_5 2 D} (1030)
B06	Sensor, air pressure, air tank . . . . .	{CV 2 D} {CV2 2 D} {CV3 3 E} (1065)
B07	Sensor, fuel level . . . . .	{BA 2 C} (1077)
B07_AL	Sensor, fuel level . . . . .	{BA 2 C} (1077)
B12	Sensor, Tachograph / speedometer . . . . .	{AMT1 0 C} {DA 3 D} {DA1 3 D}} (1494) (3020)
B21	Sensor, coolant temperature, engine . . . . .	{HD11_1 0 B} {HDE11_3 1 B} (1030)

Reference	Description	Location
B22	Sensor, outdoor temperature . . . . .	{BA 1 C} (1006, 1504, 1502, 1503)
B25	Sensor, accelerator pedal . . . . .	{BE 1 D} (1000)
B37	Sensor, boost pressure and boost temperature . . . . .	{HD11_1 4 D} {HD11_3 3 D} {HD8_1 1 A} {MDE8_3 1 B} {MDE8_5 1 B} (1030)
B51	Sensor fuel pressure . . . . .	{HD11_1 2 B} {HD11_3 1 B} {HD8_1 1 A} (1030)
B69	Sensor, coolant temperature, retarder . . . . .	{AMT1 3 C} (3020)
B96	Sensor, NOx . . . . .	{CV 2 B} {CV2 2 B} {CV3 2 B} {CV4 3 B} (1065)
B102	Sensor, Oil temperature . . . . .	{MDE8_3 0 B} {MDE8_5 0 B} (1030)
B118	Sensor, Oil pressure . . . . .	{HD11_1 1 B} {HD11_3 1 B} {HD8_1 2 A} {MDE8_2 0 B} {MDE8_5 2 B} (1030)
B119	Sensor, Oil level / temperature . . . . .	{HD11_1 3 D} {HD11_3 3 D} (1030)
B125	Sensor, Urea Pressure . . . . .	{CV 2 D} {CV2 2 D} {CV3 3 E} (1065)
B126	Sensor, temperature fuel . . . . .	{MDE8_3 0 B} (1030)
B142	Sensor, Adblue level and temperature . . . . .	{CV 1 D} {CV2 1 D} {CV3 3 E} {CV4 2 D} (1065)
B152	Sensor, Brake air pressure, front . . . . .	{BA 1 C} (1006, 1504, 1502, 1503)
B153	Sensor, Brake air pressure, rear . . . . .	{BA 1 C} (1006, 1504, 1502, 1503)
B172	Sensor, Rail pressure . . . . .	{HD8_1 2 A} {MDE8_3 1 B} (1030)
B207	Sensor, Oil cooling jet pressure . . . . .	{HD11_1 1 B} {HD11_3 1 B} (1030)
B222	Sensor, Rail pressure . . . . .	{MDE8_5 1 B} (1030)
B231	Sensor, Coolant high temperature . . . . .	{HD8_1 2 A} {MDE8_3 2 B} {MDE8_5 2 B} (1030)
B257	Sensor, Temp after DPF (Differential pressure sensor) . . . . .	{CV 1 D} {CV2 1 D} {CV3 2 D} {CV4 2 D} (1065)
B273	External Speed Control . . . . .	{NB 2 C}
B13A	Sensor, wheel speed, lhs. 1:st front axle . . . . .	{EA 1 D} (1086)
B14A	Sensor, wheel speed, rhs. 1:st front axle . . . . .	{EA 2 D} (1086)
B15A	Sensor, wheel speed, lhs. 1:st driven rear axle . . . . .	{EA 2 D} (1086)
B16A	Sensor, wheel speed, rhs. 1:st driven rear axle . . . . .	{EA 3 D} (1086)
B60LF	Loudspeaker, left front . . . . .	{IK 2 D} (1006, 1504, 1502, 1503)
B60RF	Loudspeaker, right front . . . . .	{IK 2 D} (1006, 1504, 1502, 1503)
B147L	Front, disc pad switch, left . . . . .	{BE 4 D}
B147R	Front, disc pad switch, right . . . . .	{BE 4 D}
E01L	Lamp, full beams, Left . . . . .	{GA 1 D} (1006, 1504, 1502, 1503)
E01R	Lamp, full beams, Right . . . . .	{GA 2 D} (1006, 1504, 1502, 1503)
E03_A	Lamp, Spot light . . . . .	{GF1 2 D}

<b>Reference</b>	<b>Description</b>	<b>Location</b>
E03_B	Lamp, Spot light . . . . .	{GF1 2 D}
E03_C	Lamp, Spot light . . . . .	{GF1 3 D}
E03_D	Lamp, Spot light . . . . .	{GF1 3 D}
E03_LF	Lamp, Position lamp left . . . . .	{GA 1 D} (1006, 1504, 1502, 1503)
E03_RF	Lamp, Position lamp right . . . . .	{GA 3 D} (1006, 1504, 1502, 1503)
E03_RF1	Lamp, Position lamp right . . . . .	{GB 1 D}
E05	Lamp, 5:th wheel light . . . . .	{GF 2 C} (1063, 1499)
E07VL	Lamp, fog light, left . . . . .	{GB 3 D} (1006, 1504, 1502, 1503)
E07VR	Lamp, fog light, right . . . . .	{GB 4 D} (1006, 1504, 1502, 1503)
E11L	Lamp marker left side . . . . .	{GB 0 D}
E11L_CA	Lamp, side marker light, left centre. . . . .	{GC 0 C} (1077, 1040)
E11LC	Lamp, side marker light, left centre. . . . .	{GC 0 C} (1077, 1040)
E11LC1	Lamp, side marker lamp . . . . .	{GC 0 C}
E11LC2	Lamp, side marker light, left centre. . . . .	{GC 1 C}
E11LF	Lamp, side marker light, left front . . . . .	{GC 1 C} (1077, 1040)
E11R	Lamp marker right side . . . . .	{GB 2 D}
E11R_CA	Lamp, side marker light, right centre . . . . .	{GC 4 C} (1077, 1040)
E11RC	Lamp, side marker light, right centre . . . . .	{GC 4 C}
E11RC1	Lamp, side marker light, right centre . . . . .	{GC 4 C}
E11RC2	Lamp, side marker light, right centre . . . . .	{GC4 C}
E11RF	Lamp, side marker light, right front . . . . .	{GC 3 C} (1077)
E12L	Lamp, roof position light, left . . . . .	{GC 1 C} (1006, 1504)
E12R	Lamp, roof position light, right. . . . .	{GC 2 C} (1006, 1504)
E13LF	Lamp, direction indicator, left front . . . . .	{GA 1D} (1006)
E13LS	Lamp, direction indicator, left side . . . . .	{GE 1 D} (1007, 1504)
E13RF	Lamp, direction indicator, right front . . . . .	{GA 2 D} (1006)
E13RS	Lamp, direction indicator, right side . . . . .	{GE 2 D} (1007, 1504)
E14L	Lamp, beacon warning lamp . . . . .	{GF1 0 C}
E14R	Lamp, beacon warning lamp . . . . .	{GF 0 C}
E15L	End outline marker lamp, roof rear, left . . . . .	{GC 1 D}
E15R	End outline marker lamp, roof rear, right . . . . .	{GC 3 D}
E19L	Lamp, identification light, roof, left . . . . .	{GC 2 C}
E19R	Lamp, identification light, roof, right . . . . .	{GC 2 C}
E27_1	Tractor taillamp pigtail . . . . .	{TP2 2 C}
E27_2	Tractor taillamp pigtail . . . . .	{TP2 3 C}
E27_L1	Tractor tail lamp module, left. . . . .	{GD_TRACTOR 2 B}
E27_R1	Tractor tail lamp module, right . . . . .	{GD_TRACTOR 3 B}
E27L	Tail lamp module, left . . . . .	{GB 0 D}

<b>Reference</b>	<b>Description</b>	<b>Location</b>
E27R	Tail lamp module, right . . . . .	{GB 1 D} (1007)
E85L	Lamp, Interior light, roof . . . . .	{IH 2 C}
E85R	Lamp, Interior light, roof . . . . .	{IH 3 C}
E86	Lamp, interior light, bed light, side walls . . . . .	{IH 1 B} (1006, 1504)
E91DS	Lamp, interior light, driver side . . . . .	{IA 1 B} (1006)
E91PS	Lamp, interior light, passenger side . . . . .	{IA 0 B} (1006)
EL3RC	Lamp, Reverse working lamp, Rear centre . . . . .	{GF_C A 3 B}
F01	Fuse, Instrument Cluster . . . . .	{BA 0 A}
F02	Fuse, EMS power supply . . . . .	{CA 3 B}
F03	Fuse, ABS ABS ECU power supply . . . . .	{EA 1 A}
F04	Fuse, Interior Lamps LH & RH . . . . .	{IA 1 A} {IH 1 A}
F05	Fuse, Brake & reverse Lamp . . . . .	{GB 1 A}
F06	Fuse, Air dryer . . . . .	{GE 0 A}
F07	Fuse, Beacon lamps . . . . .	{GF 1 A}
F08	Fuse, Audio . . . . .	{IK 1 A}
F09	Fuse, Rear Fog lamp . . . . .	{GB 2 A}
F10	Fuse, Mirror Heating LH & RH . . . . .	{IE 3 A}
F11	Fuse ATCU battery line . . . . .	{DB 1 A}
F12	Fuse, Master light switch in stalk . . . . .	{GA 0 A}
F13	Fuse, Flasher supply . . . . .	{GE 1 A}
F14	Fuse, Headlamps main & dipped beam . . . . .	{GA 1 A}
F15	Fuse, Interior roof Lamps . . . . .	{IH 3 A}
F16	Fuse, TGW kl.30 . . . . .	{BU 1 A}
F18	Fuse, Trailer ABS supply . . . . .	{GG 2 B}
F19	Fuse, Ignition key Switch . . . . .	{AB 0 B}
F20	Fuse, position lamp . . . . .	{GA 2 A}
F21	Fuse, Power outlet 24V . . . . .	{IA 2 A}
F22	Fuse, Audio kl.r . . . . .	{IK 2 A}
F23	Fuse, 5th Wheel Working lamp . . . . .	{GF 2 A}
F25	Fuse, Power Window motor . . . . .	{IE 0 A}
F26	Fuse, Bogie lift . . . . .	{FL 1 A}
F27	Fuse, TGW kl.r . . . . .	{BU 1 A}
F28	Fuse, DC-DC convertor . . . . .	{IA 3 A}
F29	Fuse, Trailer ABS kl.15 . . . . .	{GG 3 B}
F30	Fuse, Wiper screen Washer . . . . .	{GM 0 A}
F31	Fuse, Horn . . . . .	{IP 1 A}
F32	Fuse, TGW kl.15 . . . . .	{BU 1 A}
F33	Fuse, Difflock & PTO . . . . .	{BC 1 A}

Reference	Description	Location
F34	Fuse, Master light switch- stalk switch(kl.15) & OBD . . . . .	{GE 0 A}
F35	Fuse, ABS supply kl.15. . . . .	{EA 1 A}
F36	Fuse, HVAC power . . . . .	{CM 1 A}
F37	Fuse, HVAC supply kl.15 . . . . .	{CM 0 A}
F38	Fuse, SCR IGV supply . . . . .	{CV 0 A} {CV3 1 A} {CV4 1 A}
F39	Fuse ATCU ignition line. . . . .	{DB 1 A}
F40	Fuse, alternator field . . . . .	{AC 2 A}
F41	Fuse, Power Take off 2 . . . . .	{DC1_CA 3 A}
F42	Fuse, Front fog lamps . . . . .	{GB 3 A}
F43	Fuse, low range inhibitor valve & PTO. . . . .	{DC1 3 A}
F44	Fuse, Gearbox switch . . . . .	{DA 1 A} {DA1 1A}
F45	Fuse, Washer motor . . . . .	{GM 3 A}
F47	Fuse,Cab tilt pump . . . . .	{KA 1B}
F50	Fuse, Trailer Rear Fog Lamp . . . . .	{GG 1 B}
F51	Fuse, Trailer Brake lamp. . . . .	{GG 1 B}
F52	Fuse, Trailer POS lamps LH & RH. . . . .	{GG 0 B}
F53	Fuse, Trailer Reverse lamps. . . . .	{GG 1 B}
F54	Fuse, H/L POS lamps LH . . . . .	{GA 1 C}
F55	Fuse, H/L POS lamps RH . . . . .	{GA 3 C}
F56	Fuse, Illumination line . . . . .	{GA 3 B}
F57	Fuse, Main Beam LH . . . . .	{GA 1 C}
F58	Fuse, Main Bean RH. . . . .	{GA 2 C}
F59	Fuse, Dipped Beam LH. . . . .	{GA 1 C}
F60	Fuse, Dipped Beam RH . . . . .	{GA 2 C}
F62	Fuse, AUV Valve . . . . .	{CA 1 B}
F65	Fuse, Preheater relay coil . . . . .	{AB 3 D}
F66	Fuse, IECU power supply . . . . .	{BE 0 B}
F67	Fuse, H/L levelling motor . . . . .	{GU 0 B}
F69	Fuse, Body Builder . . . . .	{AB 3 B}
F70	Fuse, Body Builder . . . . .	{AB 4 B}
F71	Fuse, ADR alternator shutoff relay . . . . .	{AC 3 A}
F72	Fuse, Mirror Heating . . . . .	{AA 4 D}
F73	Fuse, Air Dryer . . . . .	{AA 3 D}
F74	Fuse, . . . . .	{AB 4 C}
F75	Fuse, BBM Supply. . . . .	{BM 1 B}
F76	Fuse, Power relay . . . . .	{AB 3 B}
F77	Fuse, Spot lamp . . . . .	{AB 4 B}
F78	Fuse, Cab tilt pump . . . . .	{KA 2 B}

Reference	Description	Location
F79	Fuse, Aux direction indicator RH	{GE 2 D}
F80	Fuse, Aux direction indicator LH	{GE 0 D}
FA4	Fuse, Tachograph . . . . .	{AA 1 C}
FA5	Fuse, Spare . . . . .	{AA 1 C}
FA6	Fuse, SCR . . . . .	{AA 1 C} {AC 0 C}
FA7	Fuse, ADR Tachograph . . . . .	{AC 0 C}
FB1	Fuse, Main Cab Power . . . . .	{AA 0 B}
FB2	Fuse, Preheater . . . . .	{AA 0 B}
FB3	Fuse, Spare . . . . .	{AA 1 B}
FBB1	Fuse, Body builder rocker switch . . . . .	{NA 0 B}
FBB2	Fuse, Body builder rocker switch . . . . .	{NA 1 B}
FBB3	Fuse, Body builder rocker switch . . . . .	{NA 2 B}
FBB4	Fuse, Body builder kl.15 supply . . . . .	{NA 3 B}
FBB5	Fuse, Body builder kl.15 supply . . . . .	{NA 3 B}
FBB6	Fuse, Body builder kl.15 supply . . . . .	{NB 3 B}
FBB7	Fuse, Body builder illumination line . . . . .	{NA 2 B}
G01A	Battery . . . . .	{AA 0 C} (1460)
G01B	Battery . . . . .	{AA 0 D} (1460)
G02A	Alternator 1 . . . . .	{AA 2 C} {HD11_2 1 C} {HD11_4 2 C} {HD8_2 1 C} {MDE8_4 1 C} {MDE8_6 2 C} (1460) (1030)
H01	Horn, air-operated. . . . .	{IP 1 B}
H02	Horn . . . . .	{IP 1 B}
H03	Reverse Warner, acoustic . . . . .	{GB 0 D}
H25	Buzzer, Reverse Buzzer . . . . .	{GF_CA 3 B}
K01	Relay, Brake Lamp . . . . .	{GB 1 B}
K01A	Relay, Starter control . . . . .	{AA 2 C}
K02	Relay, GGW power . . . . .	{BM 1 C}
K03	Relay, Beacon Lamp . . . . .	{GF 1 B}
K04	Relay, Front Fog Lamp . . . . .	{GB 3 B}
K05	Relay, Rear Fog Lamp . . . . .	{GB 2 B}
K06	Relay, Mirror heating . . . . .	{IE 3 B}
K07	Relay, Trailer position . . . . .	{GA 4 B}
K08	Relay, Illumination line . . . . .	{GA 3 B}
K09	Relay, H/L Main beam LH & RH. . . . .	{GA 1 B}
K10	Relay, H/L Dipped beam LH & RH . . . . .	{GA 2 B}
K13	Relay, Wind screen wiper . . . . .	{GM 0 C}
K14	Relay, Horn . . . . .	{IP 1 D}
K15	Relay, Reverse lamp & Buzzer. . . . .	{GB 0 B}

Reference	Description	Location
K16	Relay, HVAC power	{CM 1 B}
K17	Relay, Bogie lift	{DA1 1 C}
K18	Relay, ADR	{AC 3 D}
K20	Relay, Washer motor	{GM 3 B}
K22	Relay, Wiper high	{GM 2 C}
K23	Relay, HVAC system	{AB 4 B}
K24	Relay, EMS	{AB 3 B}
K25	Relay, ADR main	{AA 3 B}
K26	Relay, Aux direction indicator LH	{GE 1 C}
K27	Relay, Aux direction indicator RH	{GE 2 D}
K28	Relay, Wiper low	{GM 2 B}
K29	Relay, Radio line kl.r	{AB 2 B}
K30	Relay, Ignition kl.15	{AB 2 B}
K31	Relay, Maxi relay, Cab tilt	{KA 3 C} (1006)
K48	Relay, Preheater	{CA 3 B} (1460)
KBB27	Relay, Bodybuilder rocker switch output	{NA 0 C}
KBB28	Relay, Bodybuilder rocker switch output	{NA 1 C}
KBB29	Relay, Bodybuilder rocker switch output	{NA 2 C}
KBB30	Relay, Bodybuilder kl.15 output	{NA 3 B}
KN01	Relay, power window, driver	{IE 0 C}
KN02	Relay, power window, driver	{IE 1 C}
KN03	Relay, power window, Co-driver	{IE 1 C}
KN04	Relay, power window, Co-driver	{IE 2 C}
M01	Motor, windscreen wiper	{GM 1 D} (1000)
M01_M	Motor, windscreen wiper	{WM1 0 B}
M02	Motor, windscreen washer pump	{GM 3 D} (1006,1504)
M03	Motor, windscreen wiper motor	{GM 3 D} (1000)
M03_M	Motor, windscreen wiper	{WM2 0 B}
M033	Wiper Motor	{GM 3 B} (1000)
M04	Motor, starter motor	{AA 1 C} {HD11_2 3 D} {HD11_4 3 C} {HD8_2 3 D} {MDE8_4 2 B} {MDE8_6 2 B} (1460,1030)
M06DS	Motor, window winder driver side	{IE 0 D} (1007,1504)
M06PS	Motor, window winder passenger side	{IE 1 D} (1007,1504)
M08L	Motor, levelling control, headlights left	{GA 0 D} (1006)
M08R	Motor, levelling control, headlights right	{GA 2 D} (1006)
M11A	Motor, Cab tilt pump	{KA 2 D} (1006)
M49	Adblue Pump Module	{CV 4 D} {CV2 4 D} {CV3 5 D} (1065)

Reference	Description	Location
R01	Heater, engine preheat . . . . .	{CA 3 C} {HD11_2 4 C} {HD11_4 4 C} {HD8_2 4 C} {MDE8_4 4 B} {MDE8_6 4 C} (1460,1030)
R10	Heater, fuel pre filter (Included in A45). . . . .	{HD11_1 2 B} {HD11_3 2 B}
R02R	Heater, rear-view mirror . . . . .	{IE 4 C} (1007,1504)
R05	Heater, air dryer. . . . .	{FQ 2 C}
R02L	Heater, rear-view mirror . . . . .	{IE 3 C} (1007,1504)
R22	Resistor, Alternator control . . . . .	{AC 3 B}
R23	Heater, AdBlue hose . . . . .	{CV 0 D} {CV2 0 D} (1065)
R23A	Heater, AdBlue hose . . . . .	{CV 1 D} {CV2 1 D}
R34	Termination resistor. . . . .	{SA 4 C}
R34.C	Termination resistor. . . . .	{SB 0 B}
R51	Subnet terminating resistor. . . . .	{BM 2 B}
S02	Stalk switch . . . . .	{IP 0 D} {BE 1 A} {GE 0 B} {GE 2 B} {GM 1 A} (1000)
S05A	Switch, Interior light, selector type . . . . .	{IH 3 B} (1000)
S09	Switch, differential gear locks, inter axles and rear wheels, selector type. . . . .	{BC 1 C} (1000)
S09A	Switch, differential lock, rear inter-axles . . . . .	{BC 2 C} (1000)
S11	Switch, bogie lift, selector type . . . . .	{FL 1 B} (1000)
S124E	Position switch, PTO 2 feedback . . . . .	{DA 2 C} (1494)
S15	Switch, ignition, selector type . . . . .	{AB 1 D} (1000)
S154	Air cleaner press indicator . . . . .	{BA 0 D} (1476)
S169	Switch, Battery Main Switch . . . . .	{AA 0 B} (1460)
S171	Switch, GLU (Gearlever unit) . . . . .	{BG 3 B} (1460)
S189F	Switch, Fog light, Front . . . . .	{GB 3 D} (1000)
S189R	Switch, Fog light, Rear . . . . .	{GB 2 D} (1000)
S190	Switch, pressure sensor / air conditioning, NC . . . . .	{CM 0 C} (1006,1504)
S190A	Switch, pressure switch e viscous fan . . . . .	{CM 1 C} (1006)
S22	Switch, levelling control, headlights, selector type . . . . .	{GU 0 B} (1000)
S243	Switch 1, Body builder electrical centre . . . . .	{NB 0 B} (1000)
S244	Switch 2, Body builder electrical centre . . . . .	{NA 1 B} (1000)
S245	Switch 3, Body builder electrical centre . . . . .	{NA 2 B} (1000)
S26_L	Switch, cab tilt pump (LHD) . . . . .	{BA 3 C} (1476)
S26_R	Switch, cab tilt pump (RHD) . . . . .	{BA 3 D} (1476)
S26A	Switch, cab tilt pump, cab . . . . .	{KA 1 C} (1000)
S26B	Switch, cab tilt pump, chassis. . . . .	{KA 1 D} (1006)
S28A	Switch, power take off 1 . . . . .	{DC1 0 B} (1000)
S28B	Switch, power take off 2 . . . . .	{DC 2 B} {DC1 2 B} {DC2 2 B} {DC3 2 B} {DC1_CA 3 B} (1000)
S334	Switch, 1st & 2nd level gear . . . . .	{DA 1 D} (1494)

Reference	Description	Location
S335	Switch, Reverse level gear . . . . .	{DA 1 C} {DA1 0 D} (1494)
S336	Switch, Contact Horn . . . . .	{IP 1 C} (1000)
S36	Switch, unit, door functions . . . . .	{IE 0 B} (1083, 1007)
S36D1:1	Switch, door . . . . .	{PW 2 A}
S36D1:10	Switch, door . . . . .	{PW 0 B}
S36D1:2	Switch, door . . . . .	{PW 0 B}
S36D1:5	Switch, door . . . . .	{PW 0 B}
S36D1:9	Switch, door . . . . .	{PW 0 B}
S36P1:1	Switch, passenger door function . . . . .	{PW 3 B}
S36P1:4	Switch, passenger door function . . . . .	{PW 3 B}
S36P1:5	Switch, passenger door function . . . . .	{PW 3 B}
S36PS	Switch, unit, passenger door functions . . . . .	{IE 2 C} (1007, 1504)
S38	Switch, ADR, emergency switch, cab . . . . .	{AC 2 C} (1000)
S38_A	Switch, ADR2, emergency switch, chassis . . . . .	{AC 2 D} (1000)
S38_B	Switch, ADR3, emergency switch, chassis . . . . .	{AC 2 D}
S38_B_MLB	ADR3_matting_loopback_chassis . . . . .	{AC 2 C}
S43	Pressure switch, parking brake indicator, NC. . . . .	{BE 2 D} (1007)
S45	Position switch, differential gear lock indicator, rear wheels . . . . .	{BC 3 B} (1007)
S45A	Position switch, differential lock indicator, rear wheels. . . . .	{BC 2 B}
S45R	Position switch, differential gear lock indicator, rear wheels, NC. or NO. . . . .	{BC 3 C} (1007)
S48A	Pressure switch, brake light, NO., (ABS/UABS) . . . . .	{BE 1 D} (1006, 1504)
S48B	Pressure switch, brake light, NO., (ABS/UABS trailer control valve). . .	{BE 2 D} (1476)
S48C	Pressure switch, brake light, NO., (ABS/UABS trailer control valve). . .	{BE 1 D}
S55	Switch, Trailer hand brake mechanical feedback . . . . .	{BE 3 B}
S58	Position switch, clutch pedal, NO. . . . .	{BE 2 D} (1000)
S58A	Clutch pedal switch 2 . . . . .	{DC1 4 B}
S61	Position switch, seat belt lock, NC. . . . .	{BA 2 C} (1007)
S63	Position switch, low range gear . . . . .	{DA 1 D}
S63_A	Range position switch. . . . .	{DA1 2 D}
S75	Switch, beacon warning light . . . . .	{GF 1 C} (1000)
S88LH	Switch, Door position, LH, NO . . . . .	{IA 1 D} {IH 1 D} (1007)
S88RH	Switch, door position, RH, NO . . . . .	{IA 0 D} IH 1 D} (1007)
S90	Position switch, Neutral . . . . .	{DA 1 D} (1494)
S94	Switch, 5th Wheel, Slide . . . . .	{GF 2 B} (1000)
S95	LED trailer detection . . . . .	{GE 3 B}
U06B11	Voltage converter 11A. . . . .	{IA 3 B}

Reference	Description	Location
V01	Diode	{GG 3 C}
V02	Diode module	{AC 3 C}
V03	Diode	{AC 3 C}
W06	Antenna, GSM, TGW (Telematics Gateway)	{BU 2 B}
W14	Antenna, GPS/GSM, TGW (Telematics Gateway)	{BU 2 B}
X02	Connector, Trailer, ABS/EBS 7-pin	{GG 2 D} (1063, 1499)
X03	Connector, Trailer, 15-pin	{GG 0 D} (1063, 1499)
X10	B+ pass through, Cab	{AB 0 D}
X43	Connector, OBD, On-Board Diagnostics	{XA 1 C} (1000)
X53	Connector, Allison Diagnostics	{DB 3 B}
X54	Connector, Engine (B+) power	{HD11_2 2 B} {HD8_2 2 B} {MDE8_4 2 B} (1030)
X74F	Power outlet, 24V, front	{IA 2 B} (1000)
XC301	Connector, Engine Interface	{AA 2 C} {CA 0 D} {CM 1 D}
XC302	Engine Interface, GIC020	{AA 3 C} {CM 0 D} {CB0 D} (1030)
XC303	Transmission interface, GIC021	{DB 1 D} {DB1 2 C}
XC305	Transmission interface, GIC021	{CV1 2 D} {DA2 1 D}
Y02	Solenoid valve, differential lock, rear wheels	{BC 1 D} (1063, 1476, 1501)
Y03	Solenoid valve, differential lock, inter axles, rear	{BC 0 D} (1063, 1476, 1501)
Y05A	Solenoid valve, bogie lift	{FL 1 C}
Y06	Solenoid valve, inhibitor	{DC1 3 C} {DA1 2 D}
Y07	Inhibitor for 9 speed	{DC1 3 C}
Y11	Solenoid valve unit, ABS, lhs. front	{EA 1 D} (1086)
Y12	Solenoid valve unit, ABS, rhs. front	{EA 1 D} (1086)
Y13	Solenoid valve unit, ABS, lhs. rear	{EA 2 D} (1086)
Y14	Solenoid valve unit, ABS, rhs. rear	{EA 3 D} (1086)
Y33	Solenoid valve, Unit Injector	{HD11_1 2 D} {HD11_3 2 D} (1030)
Y37	AVU (PWM) EPG / wastegate Drive and AVU (ON / OFF) Butterfly Air	{HD11_1 4 B} {HD11_3 4 B} (1030)
Y39	Solenoid valve, VEB	{HD11_1 3 B} {HD11_3 3 B} (1030)
Y42	Clutch, magnetic, air conditioning compressor	{CM 1 D} {HD11_2 0 C} {HD11_4 0 C} {HD8_2 0 C} {MDE8_4 0 C} {MDE8_6 0 C} (1030)
Y73	Solenoid valve, Engine brake	{HD8_1 3 A} {MDE8_3 2 B} {MDE8_5 2 B} {CA 0 D} (1030)
Y81	Solenoid valve, AdBlue tank heating	{CV 3 D} {CV2 3 D} (1065)
Y108	Solenoid valve, On/Off valve	{HD8_1 0 B} {MDE8_3 1 B} {MDE8_5 1 B} (1030)
Y110	Solenoid valve, Oil thermostat	{HD11_3 33 B} (1030)
Y111	Solenoid valve, Oil piston cooling jet	{HD11_3 33 B} (1030)
Y05A	Solenoid valve, bogie lift	{FL 1 C} (1037, 1505)

Reference	Description	Location
Y18A	Solenoid valve, PTO (Power Take Off) .....	{DC 1 C} {DC1 0 C} {DC2 1 D} (1037, 1505)
Y33A	Solenoid valve, Injector 1 .....	{HD11_3 1 D} {MDE8_3 0 D} (1030)
Y33B	Solenoid valve, Injector 2 .....	{HD11_3 1 D} {MDE8_3 0 D} (1030)
Y33C	Solenoid valve, Injector 3 .....	{HD11_3 2 D} {MDE8_3 0 D} (1030)
Y33D	Solenoid valve, Injector 4 .....	{HD11_3 2 D} {MDE8_3 1 D} (1030)
Y33E	Solenoid valve, Injector 5 .....	{HD11_3 3 D} {MDE8_3 1 D} (1030)
Y33F	Solenoid valve, Injector 6 .....	{HD11_3 3 D} {MDE8_3 1 D} (1030)
Y122A	Solenoid valve, Injector .....	{HD8_1 0 E} (1030)
Y123A	Solenoid valve, Injector .....	{HD8_1 0 E} (1030)
Y124A	Solenoid valve, Injector .....	{HD8_1 1 E} (1030)
Y125A	Solenoid valve, Injector .....	{HD8_1 1 E} (1030)
Y126A	Solenoid valve, Injector .....	{HD8_1 1 E}(1030)
Y127A	Solenoid valve, Injector .....	{HD8_1 2 E} (1030)
Y144A	Jacobs valve 1 .....	{HD8_3 3 B} (1030)
Y05B	Solenoid valve, bogie lift .....	{FL 1 C} (1037, 1505)
Y18B	Solenoid valve, PTO (Power Take Off) .....	{DC 2 C} {DC1 2 C} {DC2 2 C} (1063, 1476, 1501)
Y122B	Solenoid valve, Injector .....	{HD8_1 0 E} (1030)
Y123B	Solenoid valve, Injector .....	{HD8_1 0 E} (1030)
Y124B	Solenoid valve, Injector .....	{HD8_1 0 E} (1030)
Y125B	Solenoid valve, Injector .....	{HD8_1 1 E} (1030)
Y126B	Solenoid valve, Injector .....	{HD8_1 1 E} (1030)
Y127B	Solenoid valve, Injector .....	{HD8_1 1 E} (1030)
Y144B	Jacobs valve 2 .....	{HD8_3 3 B} (1030)
Y18B1	Solenoid valve, PTO (Power Take Off), L.H.D .....	{DC3 1 B} (1063, 1476, 1501)
Y18D	PPA valve .....	{DC 3 C}
Y18F	Solenoid Valve, Interlock .....	{DC2 2 C} (1063, 1476, 1501)
Y18F1	Solenoid Valve, 9 speed Interlock .....	{DC1 2 C}
Y18M	Solenoid Valve, First gear block .....	{DC1 1 D}
Y18R1	Solenoid Valve, Range output valve .....	{DC1 3 D}(1063, 1476, 1501)
Y80	Dosing Valve .....	{CV4 4 D} (1065)
YB97	Adblue Air control valve & Urea temp sensor .....	{CV 3 D} {CV2 3 D} {CV3 4 D} (1065)

## List of Connectors

Reference	Location	Reference	Location	Reference	Location	Reference	Location
5.1	KA 2 E	*req*	DC1_CA 4 B	AC:1	BA 0 D	B60LF	IK 2 D
5.2	BE 4 E	*req*	DC1_CA 4 B	AC:2	BA 0 C	B60RF	IK 2 D
5.7	GG 0 C	*req*	DC1_CA 4 D	B06	CV 2 D	B96	CV 2 B
*req*	AA 0 B	*req*	DC1_CA 4 C	B07	BA 2 C	BA:1	FL 1 C
*req*	AA 0 A	*req*	GG 4 C	B07_1:1	BA 2 D	BA:3	FL 1 D
*req*	AA 0 A	5.7_1	GG 4 C	B07_1:2	BA 2 D	BA:3	FL 1 D
*req*	AA 1 B	5.7_2	GG 0 C	B12	DA 3 D	BAT_1	AB 0 B
*req*	IA 1 C	5.7_3	GG 4 C	B125	CV 2 D	BB1:1	AA 1 D
*req*	GF1 0 A	A03	BA 0 C	B13A	EA 1 D	BB1:4	AA 1 D
*req*	GF_CA 3 C	A07	IK 1 C	B142	CV 1 D	BB1:5	AA 1 D
*req*	GF_CA 3 C	A12	EA 0 B	B147L	BE 4 D	BB1_Ext:1	AA 1 1 D
*req*	AA 1 1 B	A125	IK 1 C	B147R	BE 4 D	BB1_Ext:1	AA 1 1 B
*req*	AA 1 1 B	A149	BE 0 C	B14A	EA 2 D	BB1_Ext:4	AA 1 2 B
*req*	AA 1 1 D	A151	GE 1 B	B152	BA 1 C	BB1_Ext:4	AA 1 2 D
*req*	AA 1 1 D	A160A	BG 2 C	B153	BA 1 C	BB1_Ext:5	AA 1 2 D
*req*	AA 1 1 B	A172_M	CV 2 0 C	B157L	BE 4 D	BB1_Ext:5	AA 1 2 B
*req*	AA 1 3 D	A174	CV 0 C	B157R	BE 4 D	BB2:1	AC 1 C
*req*	AA 1 3 B	A189	BM 1 D	B15A	EA 2 D	BB2:10	CA 3 B
*req*	AA 2 2 C	A19B	DB 1 B	B16A	EA 3 D	BB2:11	CA 3 B
*req*	AA 2 2 C	A25	DC1_CA 1 D	B22	BA 1 C	BB2:12	CA 3 A
*req*	AA 2 2 B	A28B	AC 0 C	B25	BE 1 D	BB2:13	AC 0 D
*req*	AA 2 3 B	A34	CM 2 D	B257	CV 1 D	BB2:15	AC 1 C
*req*	AA 2 3 C	A57	DB 1 C	B273	NB 2 C	BB2:2	AC 1 C
BB2:3	AC 1 B	CA:17	BA 3 C	E03_B	GF1 2 D	earth58_33	AA 2 D
BB2:4	AC 1 C	CA:18	BA 3 D	E03_C	GF1 3 D	earth77_36	CA 3 D
BB2:5	AC 1 C	CA:19	DC3 1 B	E03_D	GF1 3 D	EL3RC	GF_CA 3 B
BB2:7	AC 0 D	CA:2	BC 0 C	E03_LF	GA 1 D	EPR:1	CA 3 C
BB2:8	AC 1 C	CA:20	DC3 1 C	E03_RF	GA 3 D	EPR:2	CA 3 A
BB2_Ext:1	AA 2 1 C	CA:21	DC1_CA 1 C	E03_RF1	GB 1 D	EPR:3	CA 3 B
BB2_Ext:1	AA 2 1 B	CA:3	BC 0 D	E05	GF 2 C	EPR_Ext :1	AA 1 2 B
BB2_Ext:10	AA 2 3 B	CA:4	DC1_CA 1 C	E07VL	GB 3 D	EPR_Ext :1	AA 1 2 D
BB2_Ext:10	AA 2 3 C	CA:5	DC1 0 C	E07VR	GB 4 D	EPR_Ext :2	AA 1 3 B
BB2_Ext:11	AA 2 3 B	CA:6	DC1 0 D	E11L	GB 0 D	EPR_Ext :2	AA 1 3 D
BB2_Ext:11	AA 2 3 C	CA:7	DC1 4 C	E11L_CA	GC 0 C	EPR_Ext :3	AA 1 3 B
BB2_Ext:12	AA 2 3 C	CA:8	DC1 4 D	E11LC	GC 0 C	EPR_Ext :3	AA 1 3 D
BB2_Ext:12	AA 2 3 B	CA:9	DC1 2 D	E11LC1	GC 0 C	ESC:1	NA 3 D
BB2_Ext:13	AA 2 3 C	DC2:1	IA 3 D	E11LC2	GC 1 C	ESC:2	NA 4 D
BB2_Ext:13	AA 2 3 C	DC2_1:1	IA 3 D	E11LF	GC 1 C	ESC:3	NA 4 D

Reference	Location	Reference	Location	Reference	Location	Reference	Location
BB2_Ext:15	AA2 3 B	DDA_1:1	GE 2 C	E11R	GB 2 D	F01	BA 0 A
BB2_Ext:15	AA2 3 C	DDA_1:10	IE 1 C	E11R_CA	GC 4 C	F02	CA 3 A
BB2_Ext:2	AA2 1 B	DDA_1:11	IE 4 C	E11RC	GC 4 C	F03	EA 1 A
BB2_Ext:2	AA2 1 C	DDA_1:12	IE 0 D	E11RC1	GC 4 C	F04	IA 1 A
BB2_Ext:3	AA2 1 B	DDA_1:13	IE 1 D	E11RC2	GC 3 C	F05	GB 1 A
BB2_Ext:3	AA2 1 C	DDA_1:14	IE 1 B	E11RF	GC 3 C	F06	GE 0 A
BB2_Ext:4	AA2 1 B	DDA_1:15	IE 0 B	E12L	GC 1 C	F07	GF 1 A
BB2_Ext:4	AA2 1 C	DDA_1:2	GE 2 D	E12R	GC 2 C	F08	IK 1 A
BB2_Ext:5	AA2 2 C	DDA_1:3	IE 1 B	E13LF	GA 1 D	F09	GB 2 A
BB2_Ext:5	AA2 2 B	DDA_1:4	IE 0 B	E13LS	GE 1 D	F10	IE 3 A
BB2_Ext:7	AA2 2 C	DDA_1:5	IE 0 C	E13RF	GA 2 D	F11	DB 1 A
BB2_Ext:7	AA2 2 B	DDA_1:6	IE 1 B	E13RS	GA 2 D	F12	GA 0 A
BB2_Ext:8	AA2 2 C	DDA_1:7	IE 0 B	E14L	GF1 0 C	F13	GE 1 A
BB2_Ext:8	AA2 2 B	DDA_1:8	IE 0 C	E14R	GF 0 C	F14	GE 1 A
BCL:1	GB 1 E	DDA_1:9	IE 1 C	E15L	GC 1 D	F15	GA 1 A
BCL:2	GB 2 E	DPA_1:1	GE 1 C	E15R	GC 3 D	F16	IH 3 A
BCL:3	GE 1 E	DPA_1:10	IE 2 C	E19L	GC 2 C	F17	BU 1 A
BCL:4	GE 2 E	DPA_1:11	IE 2 B	E19R	GC 2 C	F18	GG 2 B
BL:1	GF 1 C	DPA_1:2	GE 1 D	E27L	GB 0 D	F19	AB 0 B
BL:2	GF 1 D	DPA_1:3	IE 2 B	E27R	GB 1 D	F20	GA 2 A
CA:1	BC 1 C	DPA_1:4	IE 1 D	E85L	IH 2 C	F21	IA 2 A
CA:10	DC1 2 B	DPA_1:5	IE 2 D	E85R	IH 3 C	F22	IK 2 A
CA:11	DC1 3 D	DPA_1:6	IE 3 C	E86	IH 1 B	F23	GF 2 A
CA:12	FQ 2 B	DPA_1:7	IE 3 D	E91DS	IA 1 B	F25	IE 0 A
CA:13	FQ 2 D	DPA_1:9	IE 2 C	E91PS	IA 0 B	F26	FL 1 A
CA:14	BE 2 D	E01L	GA 1 D	earth22_6	CM 1 E	F27	BU 1 A
CA:15	BE 2 E	E01R	GA 2 D	earth53_21	AA 1 D	F28	IA 3 A
CA:16	DC1_CA 1 C	E03_A	GF1 2 D	earth57_33	AA 0 D	F29	GG 3 B
F30	GM 0 A	F79	GE 2 D	FR:14	BA 1 C	FRC:123	GF1 0 B
F31	IP 1 A	F80	GE 0 D	FR:15	BA 1 D	FRC:124	GF 1 B
F32	BU 1 A	FA:1	DC1_CA 2 D	FR:16	GB 3 C	FRC:124	GF1 0 B
F33	BC 1 A	FA:2	DC1_CA 3 D	FR:17	GB 4 C	FRC:125	GF 1 B
F34	GA 0 A	FA4	AA 1 C	FR:18	GB 4 D	FRC:125	GF1 0 B
F35	EA 1 A	FA5	AA 1 C	FR:2	GU 1 B	FRC:126	GF 1 B
F36	CM 1 A	FA6	AA 1 C	FR:3	GA 1 D	FRC:126	GF1 0 B
F37	CM 0 A	FA7	AC 0 C	FR:4	GA 1 D	FRC:128	GB 3 B
F38	CV 0 A	FB1	AA 0 B	FR:5	GA 1 D	FRC:129	GB 3 B
F39	DB 1 A	FB2	AA 0 B	FR:6	GA 1 D	FRC:13	GE 1 A
F40	AC 2 A	FB3	AA 1 B	FR:7	GA 1 D	FRC:130	GB 3 B
F41	DC1_CA 3 A	FBB1	NA 0 B	FR:8	GU 1 C	FRC:131	GB 3 B
F42	GB 3 A	FBB2	NA 1 B	FR:9	GA 2 C	FRC:133	GB 2 B

Reference	Location	Reference	Location	Reference	Location	Reference	Location
F43	DC1 2 A	FBB3	NA 2 B	FR_1:1	KA 3 C	FRC:134	GB 2 B
F44	DA 1 A	FBB4	NA 3 B	FR_1:2	KA 2 D	FRC:135	GB 2 B
F45	GM 3 A	FBB5	NA 3 B	FRC:1	BA 0 A	FRC:136	GB 2 B
F47	KA 1 B	FBB6	NA 3 B	FRC:10	IE 3 A	FRC:138	IE 3 B
F50	GG 1 B	FBB7	NA 2 B	FRC:100	AB 4 C	FRC:139	IE 3 B
F51	GG 1 B	FL_1:1	BE 2 D	FRC:101	BM 1 B	FRC:14	GA 1 A
F52	GG 0 B	FL_1:10	DB 2 B	FRC:102	BM 1 B	FRC:140	IE 3 B
F53	GG 1 B	FL_1:11	DB 2 B	FRC:103	AB 3 A	FRC:141	IE 3 B
F54	GA 1 C	FL_1:12	DB 2 B	FRC:104	AB 3 B	FRC:143	GA 3 B
F55	GA 3 C	FL_1:13	BE 3 B	FRC:105	AB 4 A	FRC:144	GA 3 B
F56	GA 3 B	FL_1:14	BE 3 A	FRC:106	AB 4 B	FRC:145	GA 4 B
F57	GA 1 C	FL_1:2	BE 2 D	FRC:106	GF1 2 A	FRC:146	GA 4 B
F58	GA 2 C	FL_1:3	IH 1 C	FRC:107	GF1 2 B	FRC:148	GA 2 B
F59	GA 1 C	FL_1:4	BA 3 C	FRC:107	KA 2 A	FRC:149	GA 2 B
F60	GA 2 C	FL_1:5	BA 3 D	FRC:108	KA 2 B	FRC:15	IH 3 A
F62	CA 1 B	FL_1:6	DB 1 B	FRC:109	GE 2 D	FRC:150	GA 3 B
XS2158	BE_1 2 B	FL_1:6	BG 3 C	FRC:11	DB 1 A	FRC:151	GA 3 B
F65	AB 3 D	FL_1:7	DB 1 B	FRC:110	GE 3 D	FRC:153	GA 1 B
F66	BE 0 B	FL_1:7	BG 3 C	FRC:111	GE 1 D	FRC:154	GA 1 B
F67	GU 0 B	FL_1:8	DB 2 B	FRC:112	GE 0 D	FRC:155	GA 1 B
F69	AB 3 B	FL_1:8	BG 3 C	FRC:113	GB 1 B	FRC:156	GA 1 B
F70	AB 4 C	FL_1:9	DB 2 B	FRC:114	GB 1 B	FRC:158	GA 2 B
F71	AC 3 A	FL_2:3	IH 1 C	FRC:115	GB 1 B	FRC:159	GA 2 B
F72	AA 4 D	FL_2:4	BA 2 C	FRC:116	GB 1 B	FRC:16	BU 1 B
F73	AA 3 D	FL_2:5	BA 2 D	FRC:118	BM 1 C	FRC:160	GA 2 B
F74	AB 4 C	FR:1	GU 0 C	FRC:119	BM 1 B	FRC:161	GA 2 B
F75	BM 2 B	FR:10	GA 2 D	FRC:12	GA 0 A	FRC:173	GM 0 B
F76	AB 3 B	FR:11	GA 2 D	FRC:120	BM 1 B	FRC:174	GM 0 C
F77	AB 4 B	FR:12	GA 3 D	FRC:121	BM 1 C	FRC:175	GM 0 C
F78	KA 2 B	FR:13	GA 2 D	FRC:123	GF 1 B	FRC:177	GM 1 B
FRC:178	IP 1 D	FRC:238	GE 1 D	FRC:38	CV 0 A	FRC:83	BE 0 A
FRC:179	IP 1 D	FRC:239	GE 1 C	FRC:39	DB 1 A	FRC:84	BE 0 B
FRC:18	GG 2 B	FRC:240	GE 1 C	FRC:4	IA 1 A	FRC:85	GU 0 B
FRC:180	IP 1 D	FRC:241	GE 1 D	FRC:4	IH 1 A	FRC:86	GU 0 B
FRC:181	IP 1 D	FRC:243	GE 2 D	FRC:40	AC 2 B	FRC:89	AB 3 C
FRC:183	GB 0 B	FRC:244	GE 2 C	FRC:41	DC1_CA 3 B	FRC:9	GB 2 A
FRC:184	GB 0 B	FRC:245	GE 2 C	FRC:42	GB 3 A	FRC:90	AB 3 B
FRC:185	GB 0 B	FRC:246	GE 2 C	FRC:43	DC1 2 A	FRC:91	AB 4 C
FRC:186	GB 0 B	FRC:248	GM 2 C	FRC:44	DA 1 B	FRC:92	AB 4 C
FRC:188	CM 0 B	FRC:248	GF1 2 B	FRC:45	GM 3 A	FRC:93	AC 3 A
FRC:189	CM 0 B	FRC:249	GM 2 B	FRC:47	KA 1 B	FRC:94	AC 3 B
FRC:19	AB 0 B	FRC:249	GF1 2 B	FRC:5	GB 1 A	FRC:95	AA 4 D

Reference	Location	Reference	Location	Reference	Location	Reference	Location
FRC:190	CM 1 B	FRC:25	IE 0 A	FRC:51	GB 1 A	FRC:96	AA 4 D
FRC:191	CM 1 B	FRC:250	GM 2 B	FRC:52	GG 1 B	FRC:97	AA 3 D
FRC:198	AC 3 D	FRC:250	GF1 2 B	FRC:53	GG 1 B	FRC:98	AA 3 D
FRC:199	AC 3 C	FRC:251	GM 2 C	FRC:54	GG 1 B	FRC:99	AB 4 C
FRC:2	CA 3 B	FRC:251	GF1 2 B	FRC:55	GG 0 B	FS_1:1	IA 1 A
FRC:20	GA 2 A	FRC:252	GM 2 C	FRC:56	GG 0 B	FS_1:1	IH 1 B
FRC:200	AC 3 C	FRC:253	AB 2 C	FRC:57	GG 1 B	FS_1:10	GF1 2 C
FRC:202	AC 3 D	FRC:254	AB 2 B	FRC:58	GG 1 B	FS_1:11	GC 2 B
FRC:208	GM 3 C	FRC:255	AB 2 B	FRC:59	GA 1 C	FS_1:12	GC 2 B
FRC:209	GM 3 B	FRC:256	AB 2 C	FRC:6	GE 0 A	FS_1:13	GC 1 B
FRC:21	IA 2 A	FRC:257	AB 1 C	FRC:60	GA 1 C	FS_1:14	GC 2 B
FRC:210	GM 3 B	FRC:258	AB 1 B	FRC:61	GA 3 C	FS_1:16	IK 2 C
FRC:211	GM 3 C	FRC:259	AB 2 B	FRC:62	GA 3 C	FS_1:17	IK 2 C
FRC:218	GM 2 C	FRC:26	FL 1 A	FRC:63	GA 3 B	FS_1:18	IK 2 C
FRC:219	GM 2 B	FRC:260	AB 2 C	FRC:64	GA 3 B	FS_1:19	IK 2 C
FRC:22	IK 2 B	FRC:261	KA 2 C	FRC:65	GA 1 C	FS_1:2	IA 1 D
FRC:220	GM 2 B	FRC:262	KA 2 B	FRC:66	GA 1 C	FS_1:2	IH 1 C
FRC:221	GM 2 C	FRC:263	KA 2 B	FRC:67	GA 2 C	FS_1:20	GC 2 D
FRC:223	AB 3 C	FRC:264	KA 2 C	FRC:68	GA 2 C	FS_1:21	GC 2 D
FRC:224	AB 3 B	FRC:27	BU 1 B	FRC:69	GA 1 C	FS_1:3	IA 1 C
FRC:225	AB 3 B	FRC:28	IA 3 A	FRC:7	GF 1 A	FS_1:3	IH 1 C
FRC:226	AB 3 C	FRC:29	GG 3 B	FRC:70	GA 1 C	FS_1:4	IH 3 C
FRC:228	AB 4 C	FRC:3	EA 1 B	FRC:71	GA 2 C	FS_1:5	IH 3 D
FRC:229	AB 4 B	FRC:30	GM 0 B	FRC:72	GA 2 C	FS_1:6	GC 1 B
FRC:23	GF 2 A	FRC:31	IP 1 A	FRC:75	CA 1 B	FS_1:7	GF 1 C
FRC:230	AB 4 B	FRC:32	BU 1 B	FRC:76	CA 1 B	FS_1:7	GF1 0 C
FRC:231	AB 4 C	FRC:33	BC 1 A	XS1_100	BM 3 B	FS_1:8	GC 2 B
FRC:233	AA 3 C	FRC:34	GA 0 A	FRC:8	IK 1 B	FS_1:9	GF 1 D
FRC:234	AA 3 B	FRC:35	EA 1 B	XS3_100	BM 3 B	FW_2:1	GM 3 D
FRC:235	AA 3 B	FRC:36	CM 1 A	FRC:81	AB 3 C	FW_2:10	BE 1 D
FRC:236	AA 4 C	FRC:37	CM 0 A	FRC:82	AB 3 D	FW_2:11	KA 2 C
FW_2:12	CM 1 B	K04	GB 3 B	MA:10	AA 3 C	PL:3	NA 0 D
FW_2:13	CM 1 C	K05	GB 2 B	MA:11	CA 2 D	PL:4	NA 1 D
FW_2:14	KA 1 D	K06	IE 3 B	MA:12	CA 2 D	PL:5	NA 2 D
FW_2:2	GM 3 C	K07	GA 4 B	MA:13	CA 2 D	PL:6	NA 3 D
FW_2:3	BA 1 C	K08	GA 3 B	MA:14	CA 2 D	PL:7	NA 3 D
FW_2:4	BA 1 C	K09	GA 1 B	MA:15	CA 3 C	PL:8	NA 3 D
FW_2:5	BA 1 D	K10	GA 2 B	MA:16	CM 1 D	PL:9	NA 2 D
FW_2:6	BA 1 C	K13	GM 0 C	MA:17	CA 1 D	PL_1:12	NA 3 D
FW_2:7	BA 1 C	K14	IP 1 D	MA:18	DA2 4 C	PL_1:13	NA 4 D
FW_2:8	BE 4 B	K15	GB 0 B	MA:19	CA 3 C	PL_1:14	NA 4 D

Reference	Location	Reference	Location	Reference	Location	Reference	Location
FW_2:9	BE 1 D	K16	CM 1 B	MA:2	CA 0 D	PS:1	BA 3 C
G01A	AA 0 C	K17	DA1 1 C	MA:20	CA 3 C	PS:2	BA 3 D
G01B	AA 0 D	K18	AC 3 D	MA:3	CA 0 D	PW:1	AA 1 D
G02A	AA 2 C	K20	GM 3 B	MA:4	CA 1 D	PW:10	AC 2 C
GA:1	DA 1 D	K22	GM 2 C	MA:5	CA 1 D	PW:11	AC 2 C
GA:2	DA 1 D	K23	AB 4 B	MA:6	CA 1 D	PW:12	AC 2 C
GA:3	DA 1 D	K24	AB 3 B	MA:7	CA 1 D	PW:13	AC 2 B
GA:4	DA 2 D	K25	AB 3 B	MA:8	CA 1 D	PW:14	CA 3 B
GA:5	DA 1 D	K26	GE 1 C	MA:9	AA 2 C	PW:15	CA 3 B
GA:6	DA 1 B	K27	GE 2 D	OH:1	GB 0 C	PW:2	AB 3 D
GA:7	DA 1 C	K28	GM 2 B	OH:10	GE 1 E	PW:3	CA 3 C
GAV:1	DA1 0 D	K29	AB 2 B	OH:11	GE 2 E	PW:4	AA 1 D
GAV:2	DA1 1 D	K30	AB 2 B	OH:12	GH 3 C	PW:4	AC 0 D
GAV:4	DA1 1 D	K31	KA 2 C	OH:13	GH 3 C	PW:5	AA 1 D
GAV:5	DA1 2 D	K48	CA 3 B	OH:2	GB 1 C	PW:5	AC 0 D
GAV:6	DA1 2 D	KBB27	NA 0 C	OH:3	GB 1 C	PW:6	BA 0 C
GAV:7	DA1 2 D	KBB28	NA 1 C	OH:4	GB 1 C	PW:7	BA 0 D
GB:1	DA 3 D	KBB29	NA 2 C	OH:5	GB 2 C	PW:8	AC 2 D
GB:2	DA 3 D	KBB30	NA 3 B	OH:6	GB 1 C	PW:9	AC 1 D
GB:3	DA 3 D	KN01	IE 0 C	OH:7	GB 2 C	PWIL:1	BE 4 C
GBV:3	DA1 3 D	KN02	IE 1 C	OH:8	GB 2 C	PWIL:2	BE 4 D
GBV:5	DA1 3 D	KN03	IE 1 C	OH:9	GB 0 C	PWIR:1	BE 4 D
Gnd_1.1	YA 2 C	KN04	IE 2 C	OR:1	GF1 0 C	PWIR:2	BE 4 D
Gnd_2.1	YA 2 E	M01	GM 1 D	OR:2	GF1 0 D	QJ01:1	IE 0 D
H01	IP 1 B	M02	GM 3 D	OR:3	GF1 2 D	QJ01:2	IE 0 C
H02	IP 1 B	M04	AA 1 C	OR:4	GF1 2 D	QJ01:3	IE 0 C
H03	GB 0 D	M06DS	IE 0 D	PL:1	NA 2 D	QJ01:4	IE 0 D
H25	GF_CA 3 B	M06PS	IE 1 D	PL:10	NA 2 D	QJ01:5	IE 0 C
IGN_1	AB 2 B	M08L	GA 0 D	PL:11	NA 2 D	QJ02:1	IE 1 D
K01	GB 1 B	M08R	GA 2 D	PL:12	NA 4 D	QJ02:2	IE 0 C
K01A	AA 2 C	M11A	KA 2 D	PL:13	NA 4 D	QJ02:3	IE 1 C
K02	BM 1 C	M49	CV 4 D	PL:14	NA 4 D	QJ02:4	IE 0 D
K03	GF 1 B	MA:1	CA 0 D	PL:2	NA 3 D	QJ02:5	IE 1 D
QJ03:1	IE 1 D	RC:14	GH 1 B	S26A	KA 1 C	SM_C:2	GC 0 D
QJ03:2	IE 1 C	RC:2	GG 0 C	S26B	KA 1 D	SM_C:3	GC 4 B
QJ03:3	IE 1 C	RC:3	GG 1 C	S28A	DC1 0 B	SM_C:4	GC 4 D
QJ03:4	IE 1 D	RC:4	GG 1 C	S28B	DC1 1 B	SM_F:1	GC 1 B
QJ03:5	IE 1 D	RC:5	GG 1 C	S334	DA 1 D	SM_F:2	GC 1 C
QJ04:3	IE 2 C	RC:8	GG 2 C	S36	IP 1 C	SP(1):1	DB 1 B
QJ04:4	IE 2 D	RC:9	GG 3 C	S36PS	IE 2 C	SP(1):10	DB 4 C
QJ04:5	IE 2 D	RC_1:1	GG 0 C	S38	AC 2 C	SP(1):11	DB 4 C
R01	CA 3 C	RC_1:10	GG 3 C	S43	BE 2 D	SP(1):12	DB 5 B

Group 370 Wiring diagram UD-HDE

Reference	Location	Reference	Location	Reference	Location	Reference	Location
R02L	IE 3 C	RC_1:2	GG 0 C	S45	BC 3 B	SP(1):2	DB 1 B
R02R	IE 4 C	RC_1:3	GG 0 C	S45_1	BC 2 D	SP(1):3	DB 2 C
R04	BN2 1 A	RC_1:4	GG 1 C	S45_2:1	BC 3 D	SP(1):4	DB 2 C
R05	FQ 2 C	RC_1:5	GG 1 C	S45_2:2	BC 3 E	SP(1):5	DB 3 C
R06	BN 1 B	RC_1:6	GG 1 C	S45R	BC 3 C	SP(1):6	DB 3 C
R22	AC 3 B	RC_1:7	GG 1 C	S48A	BE 1 D	SP(1):7	DB 4 C
R23	CV 0 D	RC_1:8	GG 2 C	S48B	BE 2 D	SP(1):8	DB 4 C
R23A	CV 1 D	RC_1:9	GG 2 C	S48C	BE 1 D	SP(1):9	DB 4 C
R34	SA 4 C	RD:1	GE 4 D	S55	BE 3 B	SP:1	BE 1 D
R51	BM 2 B	RD:2	GE 4 D	S58	BE 2 D	SP:10	DA 1 B
RA:1	BA 2 C	RE:1	GE 3 D	S58A	DC1 4 B	SP:10	DA2 2 C
RA:10	GE 3 D	RE:2	GE 3 D	S61	BA 2 C	SP:11	DA2 2 C
RA:11	IP 1 B	S02	GE 0 B	S63	DA 1 D	SP:12	DA2 3 C
RA:12	GH 3 B	S05A	IH 3 B	S63_A	DA1 2 D	SP:13	DA2 3 C
RA:13	BC 3 B	S09	BC 1 C	S75	GF 1 C	SP:14	DA2 4 C
RA:14	GH 3 B	S09A	BC 2 C	S76	GF1 3 C	SP:15	CV1 1 D
RA:15	GE 2 C	S11	FL 1 B	S88LH	IA 1 D	SP:2	BE 1 D
RA:16	GE 1 C	S124E	DA 2 C	S88RH	IA 0 D	SP:3	BE 0 D
RA:2	BA 2 E	S15	AB 1 D	S90	DA 1 D	SP:4	BE 0 C
RA:3	GC 1 B	S154	BA 0 D	S94	GF 2 B	SP:4	DA2 2 C
RA:4	GC 3 B	S169	AA 0 B	SCR:1	CV 0 B	SP:5	BE 1 C
RA:5	GB 0 B	S171	BG 3 B	SCR:11	CA 2 B	SP:5	CV1 1 A
RA:6	GB 1 B	S189F	GB 3 D	SCR:12	CA 2 B	SP:6	BE 0 C
RA:7	GB 2 C	S189R	GB 2 D	SCR:13	CV 0 D	SP:6	CV1 2 B
RA:8	IP 1 B	S190	CM 0 C	SCR:2	CV 0 B	SP:7	BE 1 C
RA:9	GE 0 D	S190A	CM 1 C	SCR:3	CV 0 B	SP:7	DA2 1 C
RAD_1	AB 3 B	S22	GU 0 B	SCR:4	CV 0 B	SP:8	DA 2 D
RC:1	GG 0 C	S243	NA 0 B	SCR:5	CV 3 B	SP:9	DA 1 B
RC:10	GG 3 C	S244	NA 1 B	SCR:6	CV 3 B	SS:1	DC1_CA 1B
RC:11	GF 2 C	S245	NA 2 B	SCR:7	CV 3 B	SS:2	DC1_CA 1B
RC:12	GF 2 D	S26_L	BA 3 C	SCR:8	CV 4 B	SW:1	EA 1 C
RC:13	GH 1 B	S26_R	BA 3 D	SM_C:1	GC 0 B	SW:10	EA 2 C
SW:11	EA 2 C	TA:5	GA 1 C	XF_2:B5	NA 3 C	XS1113	SA 3 C
SW:12	EA 2 C	TA:6	GA 1 C	XS1_1532	GF_CA 1C	XS1114	SB 0 C
SW:13	EA 2 C	TA:7	GA 1 E	XS1_573	DA1 1 A	XS1115	SB 1 C
SW:14	EA 2 C	TA:8	GU 1 C	XS100	DB 1 C	XS1116	CV 0 B
SW:15	EA 2 C	TA:9	GA 2 C	XS1000	DC1_CA 3 B	XS1118	SA 3 C
SW:16	EA 3 C	TC:1	BE 2 D	XS1001	AB 0 C	XS1119	SA 3 C
SW:17	EA 3 C	TC:2	BE 2 D	XS1002	AB 1 C	XS1152	GA 3 A
SW:18	EA 3 C	TI_A:1	BN 1 C	XS1003	GF1 0 C	XS1153	FL 1 C
SW:19	BE 4 D	TI_A:2	BN 2 C	XS1004	BA 1 D	XS1159	DC1 1 B

Reference	Location	Reference	Location	Reference	Location	Reference	Location
SW:2	EA 1 C	TI_A:3	BN 1 C	XS1005	GF1 0 D	XS1160	DC1 0 D
SW:20	EA 3 C	TI_A:4	BN 0 C	XS1006	BE 0 D	XS1161	DC1 0 C
SW:21	EA 3 C	TI_A:5	BN 1 C	XS1007	NA 1 D	XS1163	DC1 2 E
SW:3	EA 1 C	TI_A:6	BN 1 C	XS1008	NA 1 D	XS1165	AB 2 D
SW:4	EA 1 C	TI_A:8	BN 0 C	XS1009	YA 3 D	XS1169	GE 1 B
SW:5	EA 1 C	TI_B:3	BN 2 C	XS101	DB 1 B	XS1172	BE 1 C
SW:6	EA 1 C	TI_C:1	BN 2 C	XS1010	IA 1 D	XS1203	DC1_CA 1C
SW:7	EA 1 C	TI_C:2	BN 2 C	XS1011	IA 1 B	XS1204	DC1_CA 1D
SW:8	EA 2 C	TI_C:8	BN 3 C	XS1012	GC 2 C	XS1211	NA 0 B
SW:9	EA 2 C	TI_D:1	BN 3 C	XS1013	GC 2 C	XS1212	NA 1 B
sym218_411	BN 1 C	TI_D:2	BN 3 C	XS1014	IA 1 B	XS1213	NA 2 B
sym222_343	CV 0 B	TI_D:5	BN 3 C	XS1015	IA 1 C	XS1214	NA 2 C
sym233_719	BE 0 C	TI_D:6	BN 3 C	XS1016	YA 1 B	XS1215	NA 1 C
sym234_509	IP 1 C	TI1:A1	BN2 1 C	XS1017	YA 2 B	XS1216	NA 0 C
sym234_737	AA 3 C	TI1:A2	BN2 2 C	XS1018	YA 0 D	XS1217	FL 1 B
sym241_752	AA 2 C	TI1:A3	BN2 2 C	XS1019	YA 1 D	XS1218	FL 1 C
sym242_752	AA 3 C	TI1:A5	BN2 1 C	XS102	DB 5 C	XS1220	GF 2 B
sym244_752	CM 1 D	TI1:A6	BN2 1 C	XS1020	GF1 2 C	XS1222	YA 2 D
sym246_732	GE 2 C	TI1:B3	BN2 2 C	XS1021	AA 2 B	XS1230	BE 1 D
sym262_180	CA 2 B	TR:1	GG 0 C	XS1022	AA 4 C	XS1231	GE 2 B
sym263_180	CA 2 B	TR:10	GG 3 C	XS1023	IH 3 C	XS1233	BE 2 D
sym263_424	BA 2 B	TR:2	GG 0 C	XS1024	BC 0 C	XS1234	AB 3 A
sym269_180	CV 0 B	TR:3	GG 0 C	XS1025	BE 2 B	XS1235	CV1 1 B
sym270_180	CV 0 D	TR:4	GG 1 C	XS1026	CA 1 B	XS1240	SB 2 C
sym273_180	CV 3 B	TR:5	GG 1 C	XS103	DB 2 A	XS1241	SB 2 C
sym274_180	CV 3 B	TR:6	GG 1 C	XS1030	GF1 2 C	XS1242	GF 1 D
sym275_180	CV 3 B	TR:7	GG 1 C	XS1032	GF1 3 C	XS1243	GG 0 C
sym276_180	CV 4 B	TR:8	GG 2 C	XS1033	GF1 3 D	XS1244	YA 2 C
sym276_564	AC 0 D	TR:9	GG 2 C	XS1034	GA 1 B	XS1245	YA 2 E
sym276_684	AA 1 D	TR_1:1	GG 0 C	XS1035	GC 1 B	XS1247	GB 3 D
sym277_684	GU 2 C	TR_1:10	GG 3 C	XS1036	GC 2 B	XS1248	BE 1 D
sym278_684	BN2 1 C	TR_1:2	GG 0 C	XS1037	GA 1 A	XS1262	CV1 1 C
sym279_180	CV 0 B	TR_1:3	GG 0 C	XS1038	IH 3 D	XS1263	SA 1 C
sym280_180	CV 0 B	TR_1:4	GG 1 C	XS1039	GA 3 B	XS1265	SA 1 C
sym280_684	BE 0 C	TR_1:5	GG 1 C	XS104	GF1 1 D	XS1271	KA 1 C
sym281_684	GC 4 D	TR_1:6	GG 1 C	XS1040	GF1 2 D	XS1275	BA 1 E
sym282_684	GC 4 C	TR_1:7	GG 1 C	XS1041	GA 0 B	XS1291	BM 2 C
sym284_684	GC 0 C	TR_1:9	GG 2 C	XS1043	GF1 2 D	XS1296	SB 3 C
sym283_684	GC 4 C	TR_1:8	GG 2 C	XS1042	GB 3 C	XS1292	BM 2 B

Group 370 Wiring diagram UD-HDE

Reference	Location	Reference	Location	Reference	Location	Reference	Location
sym286_684	GC 3 C	U06B11	IA 3 B	XS1044	AB 1 A	XS1297	SB 3 C
sym287_684	GC 4 C	V01	GG 3 C	XS1045	GB 2 B	XS1298	SB 3 C
sym288_684	GC 0 C	V02	AC 3 C	XS1046	GC 1 B	XS1299	SB 3 C
sym289_684	GC 0 D	V03	AC 3 C	XS1047	GC 2 B	XS1354	SA 2 C
sym291_684	GC 1 C	W06	BU 2 B	XS1048	GE 1 C	XS1355	BE 1 C
sym292_684	GC 0 C	W14	BU 2 B	XS1049	GE 2 C	XS1356	SA 2 C
sym293_684	GC 0 B	WL:1	GF 2 C	XS105	DC3 1 B	XS1392	GH 1 C
sym294_684	GC 4 B	WL:1	GF 2 C	XS1050	GF1 3 D	XS1393	GH 1 C
sym308_633	BE 1 D	WL:2	GF 2 D	XS1052	GM 1 B	XS1394	AB 3 A
sym308_860	GE 1 C	WL:2	GF 2 D	XS1053	GM 0 C	XS1395	GE 3 D
sym309_633	BE 0 C	X02	GG 2 D	XS1055	IP 1 B	XS1396	GE 0 D
sym320_987	CA 3 B	X03	GG 0 D	XS1058	BE 1 E	XS1397	GE 0 C
sym321_987	CA 3 A	X06:1	NA 3 D	XS1059	GU 2 C	XS1398	GE 3 C
sym322_987	CA 3 C	X06:10	NA 3 D	XS106	DC3 2 D	XS1399	GE 3 D
sym323_987	AB 3 D	X06:11	NA 3 D	XS1060	GA 3 B	XS14_8	DC1_CA 4D
sym324_633	BE 4 E	X06:12	NA 3 D	XS1062	IE 3 C	XS1400	DC1 2 B
sym325_633	BE 4 D	X06:13	NA 4 D	XS1063	CM 1 C	XS1401	DC1 1 B
sym334_1532	GF_CA 1 B	X06:14	NA 4 D	XS107	DC3 2 C	XS1412	DA 1 C
sym342_1346	AA 2 D	X06:2	NA 3 D	XS1077	NA 1 A	XS1481	GB 2 D
sym345_83	SA 4 C	X06:3	NA 3 D	XS1078	YA 4 B	XS1482	GB 2 D
sym346_1291	BC 1 B	X06:4	NA 2 D	XS1079	GA 2 B	XS1635	SA 3 C
sym346_83	SA 1 C	X06:5	NA 1 D	XS1081	NA 3 A	XS1636	SA 4 C
sym348_83	SB 1 C	X06:6	NA 0 D	XS1082	AB 3 C	XS1637	SB 1 C
sym349_83	SB 2 C	X06:7	NA 2 D	XS1084	GU 2 C	XS1638	SB 1 C
sym350_83	SA 4 C	X06:8	NA 2 D	XS1087	GB 2 D	XS1752	AB 4 C
sym354_74	NA 2 D	X06:9	NA 2 D	XS109	DB 3 B	XS2_1532	GF_CA 1B
sym355_74	BE 1 D	X06_1:1	NA 3 E	XS1091	SA 0 C	XS2_633	DA1 1 E
sym372_8	BE 0 C	X06_1:2	NA 3 E	XS1092	SA 0 C	XS2008	GC 1 D
sym380_8	BE 1 C	X06_1:3	NA 3 E	XS1093	SA 0 C	XS2009	GC 1 C
sym381_436	AB 3 D	X06_1:4	NA 3 E	XS1094	SA 1 C	XS2010	GC 3 D
sym381_525	BE 2 C	X06A_1:12	NB 1 B	XS1099	IH 1 C	XS2011	GC 2 D
sym381_8	BE 3 D	X06A_1:13	NB 2 B	XS1101	AC 3 B	XS2015	GF 0 C
sym382_436	AA 1 D	X06A_1:14	NB 2 B	XS1103	AC 3 C	XS2016	GF 0 D
sym382_8	BE 4 D	X10	AB 0 D	XS1110	SA 2 C	XS2150	SB 2 C
sym383_436	BE 0 C	X10.1	AB 0 C	XS1111	SA 2 C	XS2151	SB 2 C
sym383_525	BE 2 C	X10.2	AB 0 C	XS1112	SA 3 C	XS2152	SA 1 C
sym383_8	DC3 1 C	X10.3	AB 0 D	XS1113	SA 3 C	XS2153	SA 1 C
sym384_8	DC3 1 C	X43	XA 1 C	XS1114	SB 0 C	XS3_633	DA1 2 E
sym385_8	BE 4 D	X53	DB 3 B	XS1115	SB 1 C	XS302	GC 1 B
sym387_525	CM 1 B	X74F	IA 2 B	XS1116	CV 0 B	XS303	GC 3 B

Group 370 Wiring diagram UD-HDE

Reference	Location	Reference	Location	Reference	Location	Reference	Location
sym388_525	CM 1 C	XC_1:1	NA 0 B	XS1118	SA 3 C	XS304	GB 1 C
sym390_525	CV 0 A	XC_1:10	NA 3 B	XS1119	SA 3 C	XS305	GB 0 C
sym392_525	CA 2 D	XC_1:11	NA 3 B	XS1152	GA 3 A	XS306	GB 2 C
sym392_8	SA 0 C	XC_1:12	NA 3 B	XS1153	FL 1 C	XS307	AC 1 B
sym393_525	CA 2 D	XC_1:13	NA 2 B	XS1159	DC1 1 B	XS308	BC 0 D
sym393_8	SA 3 C	XC_1:14	NA 2 B	XS1160	DC1 0 D	XS309	FL 1 D
sym395_525	BE 0 D	XC_1:2	NA 0 B	XS1161	DC1 0 C	XS310	GU 0 D
sym396_525	BE 0 D	XC_1:3	NA 1 B	XS1163	DC1 2 E	XS311	GU 1 B
sym397_525	GB 0 A	XC_1:4	NA 1 B	XS1165	AB 2 D	XS312	GU 1 D
sym398_525	SA 3 C	XC_1:5	NA 2 B	XS1169	GE 1 B	XS313	GB 4 D
sym399_525	SA 2 C	XC_1:6	NA 2 B	XS1172	BE 1 C	XS314	BC 3 C
sym401_525	SA 2 C	XC_1:7	NA 3 B	XS1203	DC1_CA 1 C	XS315	BC 3 C
sym405_525	DC1 2 C	XC_1:8	NA 3 B	XS1204	DC1_CA 1 D	XS316	GA 1 D
sym407_525	DC1 2 D	XC_1:9	NA 3 B	XS1211	NA 0 B	XS317	GA 2 D
sym408_525	DC1 2 D	XC301	AA 2 C	XS1212	NA 1 B	XS318	DC1 2 C
sym409_525	DC1 2 E	XC302	AA 3 C	XS1213	NA 2 B	XS319	DC1 2 D
sym411_525	DC1 3 D	XC303	DB 1 D	XS1214	NA 2 C	XS320	CV 2 C
sym412_525	DC1 1 B	XC305	CV1 2 D	XS1215	NA 1 C	XS321	CV 2 D
sym413_525	BA 1 B	XD_1:1	GH 2 D	XS1216	NA 0 C	XS322	CV 1 D
sym414_525	DA 1 A	XD_1:2	GH 3 D	XS1217	FL 1 B	XS323	CV 0 D
sym415_525	BE 1 C	XD_1:3	GH 3 D	XS1218	FL 1 C	XS324	CV 2 B
sym416_525	DA2 2 C	XE_1:1	GH 1 D	XS1220	GF 2 B	XS325	CV 2 B
sym417_525	DA2 2 C	XE_1:2	GH 1 D	XS1222	YA 2 D	XS326	CV 3 D
sym418_525	DA2 3 C	XE_1:3	GH 1 D	XS1230	BE 1 D	XS327	GC 0 D
sym419_525	DA2 3 C	XE11	AMT1 1 C	XS1231	GE 2 B	XS328	GC 0 C
TA:1	GU 0 C	XE12	AMT1 1 C	XS1233	BE 2 D	XS329	GC 3 C
TA:10	GA 2 C	XE13	AMT1 3 C	XS1234	AB 3 A	XS330	GC 4 D
TA:11	GA 2 C	XF_1:A1	NA 0 C	XS1235	CV1 1 B	XS332	GC 0 B
TA:12	GA 3 C	XF_1:A2	NA 0 C	XS1240	SB 2 C	XS333	GC 0 C
TA:13	GA 2 E	XF_1:A3	NA 0 C	XS1241	SB 2 C	XS335	GC 4 B
TA:14	BA 1 C	XF_1:A5	NA 0 C	XS1242	GF 1 D	XS337	GC 4 B
TA:15	BA 1 D	XF_1:B1	NA 1 C	XS1243	GG 0 C	XS339	CV2 2 A
TA:16	GB 3 C	XF_1:B2	NA 1 C	XS1244	YA 2 C	XS340	CV2 2 A
TA:17	GB 4 C	XF_1:B3	NA 1 C	XS1245	YA 2 E	XS341	CV2 3 C
TA:18	GB 4 D	XF_1:B5	NA 1 C	XS1247	GB 3 D	XS342	CV2 2 C
TA:19	KA 3 C	XF_2:A1	NA 2 C	XS1248	BE 1 D	XS343	CV2 2 C
TA:2	GU 1 B	XF_2:A2	NA 2 C	XS1262	CV1 1 C	XS344	CV2 0 D
TA:3	GA 1 C	XF_2:A3	NA 2 C	XS1263	SA 1 C	XS345	CV2 0 D
TA:4	GA 1 C	XF_2:A5	NA 2 C	XS1113	SA 3 C	XS350	GF_CA 3 B
XS351	GF_CA 3 B	XF_2:B1	NA 3 B	Y07	DC1 3 C	Y18D	DC1 4 C

Group 370 Wiring diagram UD-HDE

Reference	Location	Reference	Location	Reference	Location	Reference	Location
XS395	DA2 2 C	XF_2:B2	NA 3 C	Y11	EA 1 D	Y18F	DC1 1 C
XS396	DA2 2 C	XF_2:B3	NA 3 B	Y12	EA 1 D	Y18F1	DC1 2 C
XS397	DA2 3 C	XSQJ4	IE 1 E	Y13	EA 2 D	Y18M	DA1 1 D
XS398	DA2 3 C	XSQJ5	IE 0 E	Y14	EA 3 D	Y18R1	DC1 3 D
XS399	CA 1 D	Y02	BC 1 D	Y18A	DC1 0 C	Y42	CM 1 D
XS9217	DA1 2 C	Y03	BC 0 D	Y18B	DC1 2 D	Y81	CV 3 D
XSQJ1	IE 1 B	Y05A	FL 1 C	Y18B1	DC3 1 B	YB97	CV 3 D
XSQJ2	IE 0 C	Y05B	FL 1 C	Y18B2:1	DC1_CA 2 B	M033	GM 3 B
XSQJ3	IE 0 D	Y06	DC1 3 C	Y18B2:3	DC1_CA 2 B	PW:16	DC1 3 D
A189_P	BM 3 D	BBEC1:9	BM 4 D	BBEC1:18	BM 3 E	BBEC1:27	BM 3 E
BBEC1:1	BM 4 E	BBEC1:10	BM 2 E	BBEC1:19	BM 3 E	BBEC1:28	BM 2 E
BBEC1:2	BM 4 E	BBEC1:11	BM 2 E	BBEC1:20	BM 3 E	BBEC1:29	BM 2 E
BBEC1:3	BM 4 E	BBEC1:12	BM 2 E	BBEC1:21	BM 3 E	BBEC1:30	BM 2 E
BBEC1:4	BM 4 E	BBEC1:13	BM 2 E	BBEC1:22	BM 3 E	S38_A	AC 2 D
BBEC1:5	BM 4 E	BBEC1:14	BM 2 E	BBEC1:23	BM 3 E	S38_B	AC 2 D
BBCE1:6	BM 4 E	BBEC1:15	BM 4 E	BBEC1:24	BM 3 E	S38_B_MLB	AC 2 C
BBCE1:7	BM 4 D	BBEC1:16	BM 4 E	BBEC1:25	BM 3 E	XIN1:16	CV3 1 B
BBEC1:8	BM 4 D	BBEC1:17	BM 4 E	BBEC1:26	BM 3 E	XIN1:17	CV3 1 D
RE17:1	CV1 3 C	XS1509	CV3 3 D	XS1523	CV4 2 D	XIN1:18	CV4 2 B
RE17:2	CV1 3 C	XS1510	CV3 1 D	XS1524	CV4 2 D	XIN1:19	CV4 5 D
RE17:3	CV1 3 C	XS1511	CV3 1 D	XS2156	AA 1 D	XIN1:20	CV4 3 D
RE17:4	CV1 2 C	XS1512	CV4 1 B	XIN1:3	CV3 1 B	XIN1:21	CV4 2 D
RE17:5	CV1 3 C	XS1513	CV4 3 B	XIN1:4	CV3 3 B	XIN1:22	CV4 2 D
RE17:6	CV1 3 C	XS1514	CV4 3 B	XIN1:5	CV3 4 B	XIN1:23	CV4 1 D
RE17:7	CV1 3 C	XS1515	CV4 3 D	XIN1:6	CV3 4 B	XIN1:24	CV4 3 D
RE17:8	CV1 4 C	XS1516	CV4 3 D	XIN1:7	CV3 4 B	XIN1:25	CV4 4 D
XS1501	CV3 1 B	XS1517	CV4 3 D	XIN1:8	CV3 4 B	XIN1:26	CV4 1 D
XS1502	CV3 3 B	XS1518	CV4 3 D	XIN1:9	CV3 5 B	XS1700	SB 2 C
XS1503	CV3 3 B	XS1519	CV4 3 D	XIN1:10	CV3 5 B	XS1701	SB 2 C
XS1504	CV3 3 B	XS1520	CV4 3 D	XIN1:11	CV3 2 D		
XS1505	CV3 3 B	XS1521	CV4 1 D	XIN1:12	CV3 2 D		
XS1506	CV3 3 D	XS1522	CV4 1 D	XIN1:13	CV3 1 D		
XS1507	CV3 3 D	XS1523	CV4 2 D	XIN1:14	CV4 5 D		
XS1508	CV3 3 D	XS1524	CV5 2 D	XIN1:15	CV3 1 B		

# Abbreviations

ABS .....	Antilock brake system
ACC .....	Adaptive cruise control
ACU .....	Alarm control unit
ADR-BAS1/ ADR1 .....	ADR adaptation, 1 switch
ADR2 .....	ADR adaptation, 2 switches
ADR3 .....	ADR adaptation, 3 switches
AIRDRY-E .....	Electric airdryer
AMT .....	Automatic gear box
ATB .....	Axle load limiter
ATC .....	Automatic temperature control
ATO2612F .....	Gearbox variant
AT2612F .....	Gearbox variant
AUS .....	Australia
AUXSW-6 .....	Wiring for six auxiliary switches for body building
AWD .....	All wheel drive
BBM .....	Body builder module
BBOX-AC .....	Battery box across framerails
BBOX-EF .....	Battery box end of frame
BBOX-R .....	Battery box right hand side
CHH-LOW .....	Chassis height low
CLU .....	Central locking unit
CU-ACAUT .....	Air condition, automatic
CU-ACMAN .....	Air condition, manual
CU-BAS .....	Basic version with stepper motor without air condition
CU-ECC .....	Electronic controlled climate control air condition
CU-HEAT .....	Heater unit
CU-MCC .....	Manual controlled climate control air condition
DACU .....	Driver assistance control unit
DS .....	Driver side
EBS .....	Electronic brake system
ECS .....	Electronic controlled air suspension
EGR-C .....	Exhaust gas regulation, cooled
ELCE-CK .....	Electrical complete kit for body builder
ELMS .....	Electrical main switch
EM-EC01 .....	European community 2001 level EURO3
EM-EC06 .....	European community 2006 level EURO4
EM-EU5 .....	Engine emission control, EURO5
EM-JPN07 .....	Emission control Japan community 2007
ENG-D8 .....	Engine 8 litre
ENG-VE11 .....	Volvo engine 11 litre

EPG	Exhaust pressure governor
ESP	Electronic stability program
FAA10	1 front axle, non driven
FAA20	2 front axle, non driven
FMS	Fleet management system
FSS-LEAF	Leaf suspension, front
GSS-AGS	Automatic gear shifting system (I-shift)
GSS-PS	Automatic transmission, automatic gear shifting system (Powertronic)
GSS-RC	Range gear shifting, cable manoeuvred
GSS-SRC	Split and range gear shifting, cable manoeuvred
JPN	Japan
L	Left
LCM	Light control module
L1H1	Short cab
L2H1	Long cab
L2H2	Long high cab (Globetrotter)
LF	Left front
LHD	Left hand drive
LHS	Left hand side
LKS	Lane keeping support
LOCK-ALL	Central door lock and cut off electricity of truck
LR	Left rear
LSS-DW	Lane support system departure warning
MAINSW-M	Mechanical main switch
MAINSWI	Main switch
MECHTRAN	Mechanical transmission
MMS	Mechanical main switch
ODB	On Board Diagnostic
PH-CAB	Cab parking heater
PH-ENGCA	Engine and cab parking heater
PPA	Pneumatic Protection Assist
PS	Passenger side
PSS-DUAL	Power steering system dual
PTO	Power take off
R	Right
RAD-A4	4x2, air spring, 4bellows
RADD-A8	6x4, air spring, 8 bellows
RADT-A8	6x2, air spring, 8 bellows, tag axle
RADT-AR	6x2, leaf spring (A-ride)
RAL23	Rear axle load 23 tonnes
RAL26	Rear axle load 26 tonnes
RF	Right front

RHD.....	Right hand drive
RHS.....	Right hand side
RIGID.....	Platform or tipper truck
RR.....	Right rear
RSTS-EHY.....	Rear steering system, electrical controlled, hydraulic
SCR.....	Selective Catalyst Reduction
SCRS-UHH.....	SCR system equipment, without heated hose
SI-GRAF.....	Tachograph
SI-GRAFR.....	Tachograph
SI-SPEED.....	Speedometer
SMCONT.....	Starter motor control
SPDU-S.....	Dual speed limiter for side mounted
SPEED-DU.....	Dual speed limiter
SRS.....	Supplementary restrain system
STWPOS-L.....	Steering wheel position left hand side
STWPOS-R.....	Steering wheel position right hand side
SUSPL-EC.....	Air suspension, electronic control system levelling device
SUSPL-M.....	Air suspension, manual regulation levelling device
SWAPBODY.....	Swap body
TECU.....	Transmission electronic control unit
TIS-BAS.....	Transport information system, Logger and Positioning
TIS-HIGH.....	Transport information system, Logg. Pos. and Adv. message system
TIS-MED.....	Transport information system, Logg. Pos. and message
TMC.....	Traffic message channel
TPM.....	Tyre pressure monitoring
TRACTOR.....	Semi-trailer tractor
TREL7-7.....	Trailer connectors 2x7-pole unit
TREL14.....	Trailer connectors 14-pole unit
TURB-HD.....	Turbo heavy duty design
UACC.....	Without adaptive cruise control
UADR.....	Without ADR adaptation
UALARMB.....	Without alarm
UJERICO.....	Without Jerico horn
ULK.....	Without lane keeping support
ULSS.....	Without lane support system
UMAINSWI.....	Without main switch
URETARD.....	Without retarder
USMCONT.....	Without starter motor control
USUSPLEV.....	Without air suspension levelling device
UTPM.....	Without tyre pressure monitoring
UTRBRAKE.....	Without trailer brake valve

VECU..... Vehicle electronic control unit

## Cable colour code

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

**Note:** If a wire have two colours, this is written out like the following example: Y/R = Yellow/Red.





**UD Trucks**

Ageo, Japan