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Issue

01

Volume

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Sheet No

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ABBREVIATION LIST, 24V

| SHELL CAVITY HARNESSES |                                            |
|------------------------|--------------------------------------------|
| AC                     | AIR CONDITION                              |
| Acp                    | ACCELERATOR PEDAL                          |
| AI                     | ANALOG INPUT                               |
| Amb                    | AMBIENT                                    |
| An.IN                  | ANALOGUE INPUT                             |
| AO                     | ANALOG OUTPUT                              |
| ARC                    | AIR REGENERATION CONTROL                   |
| ARMS                   | AUTOMATIC RESET MAIN SWITCH                |
| B+                     | VOLTAGE BATTERY WITH SWITCH IN ON POSITION |
| BB                     | BODY BUILDER                               |
| BHSA                   | BRAKE HILL START AID                       |
| Brk                    | BRAKE                                      |
| Buf                    | BUFFERED                                   |
| C                      | CLOSING                                    |
| CampL                  | CAMPIGN LIGHTS                             |
| Cent                   | CENTERING                                  |
| Ctrl                   | CONTROL                                    |
| Cyl                    | CYLINDER                                   |
| Dash                   | DASHBOARD                                  |
| Deliv                  | DELIVERY                                   |
| DI                     | DIGITAL INPUT                              |
| Diag                   | DIAGNOSTIC                                 |
| Dig.OUT                | DIGITAL OUTPUT                             |
| Dir                    | DIRECTION                                  |
| Dis                    | DISABLE                                    |
| DO                     | DIGITAL OUTPUT                             |
| DRL RMC                | DAYTIME RUNNING LIGTH/REDUCED MODE CONTROL |
| EACC                   | ELECTRIC AIR COMPRESSOR CONTROL            |
| ECB                    | VBC ENGINE COMPRESSOR BRAKE                |
| ECU                    | ELECTRONIC CONTROL UNIT                    |
| ECU GND                | EXTERNAL GROUND                            |
| EGR                    | EXHAUST REDIRECTION VALVE                  |
| EMT                    | EXHAUST MANIFOLD TEMPERATURE               |
| Eng                    | ENGINE                                     |
| EPG                    | EXHAUST PRESSURE GOVERNOR                  |
| ES                     | ENGINE SYNCRONIZATION                      |
| ETCC                   | EXHAUST TEMPERATURE CATALYTIC CONVERTER    |
| Ext                    | EXTERNAL                                   |
| GND                    | SIGNAL GROUND                              |
| H                      | HIGH                                       |
| Haz                    | HAZARD                                     |
| HDI                    | HIGH DIGITAL INPUT                         |
| HDO                    | HIGH DIGITAL OUTPUT                        |
| HLa                    | HEADLAMPS                                  |
| HS                     | HIGH SIDE                                  |
| HSD                    | HIGH SIDE DRIVER                           |
| Hyd                    | HYDRAULIC                                  |
| IJ                     | INLET JET                                  |
| Ind                    | INDICATOR                                  |
| Inj                    | INJECTION                                  |
| JK                     | JACK KNIFE                                 |
| KL                     | KEY LINE                                   |
| L                      | LOW                                        |
| LCP                    | LIGHT CONTROL PANEL                        |
| LDI                    | LOW DIGITAL INPUT                          |
| LDO                    | LOW DIGITAL OUTPUT                         |
| LS                     | LOW SIDE                                   |
| Nd                     | NEEDLE                                     |
| O                      | OUTPUT                                     |
| OLS                    | OIL LEVEL SENSOR                           |
| OP                     | OPENING                                    |
| OV                     | OVERFLOW                                   |
| PCS                    | PRESSURE CONTROL SOLENOID                  |
| PCV                    | PRESSURE CONTROL VALVE                     |
| Plo                    | PLOUGH                                     |
| Pos                    | POSITION                                   |
| PR                     | PRESSURE REGULATOR                         |
| Pres                   | PRESSURE                                   |
| PS                     | PRESSURE                                   |
| PWM                    | PULSE WIDTH MODULATION                     |
| Rad                    | RADIATOR                                   |
| RAI                    | RESISTANCE ANALOGUE INPUT                  |
| Red                    | REDUCTOR                                   |
| Rel                    | RELAY                                      |
| Req                    | REQUEST                                    |
| RES                    | INPUT FOR SENSORS WITH VARIABLE RESISTANCE |
| Ret                    | RETARDER                                   |

| SHELL CAVITY HARNESSES |                            |
|------------------------|----------------------------|
| RX                     | SIGNAL RECEIVER            |
| Sen                    | SENSOR                     |
| Sign                   | SIGNAL                     |
| Sno                    | SNOW                       |
| Sp                     | SPEED                      |
| SS                     | SENSOR_SUPPLY              |
| St                     | START                      |
| Stp                    | STOP                       |
| SV                     | SUPPLY VOLTAGE             |
| Sw                     | SWITCH                     |
| TCC                    | TORQUE_CONVERTER_CLUTCH    |
| Temp                   | TEMPERATURE                |
| Tor                    | TORQUE                     |
| TX                     | SIGNAL TRANSMITTER         |
| UBat                   | FEED_DIRECTLY_FROM_BATTERY |
| VEB                    | VOLVO_ENGINE_BRAKE         |
| Veh                    | VEHICLE                    |

**VOLVO**

Volvo Bus Corporation

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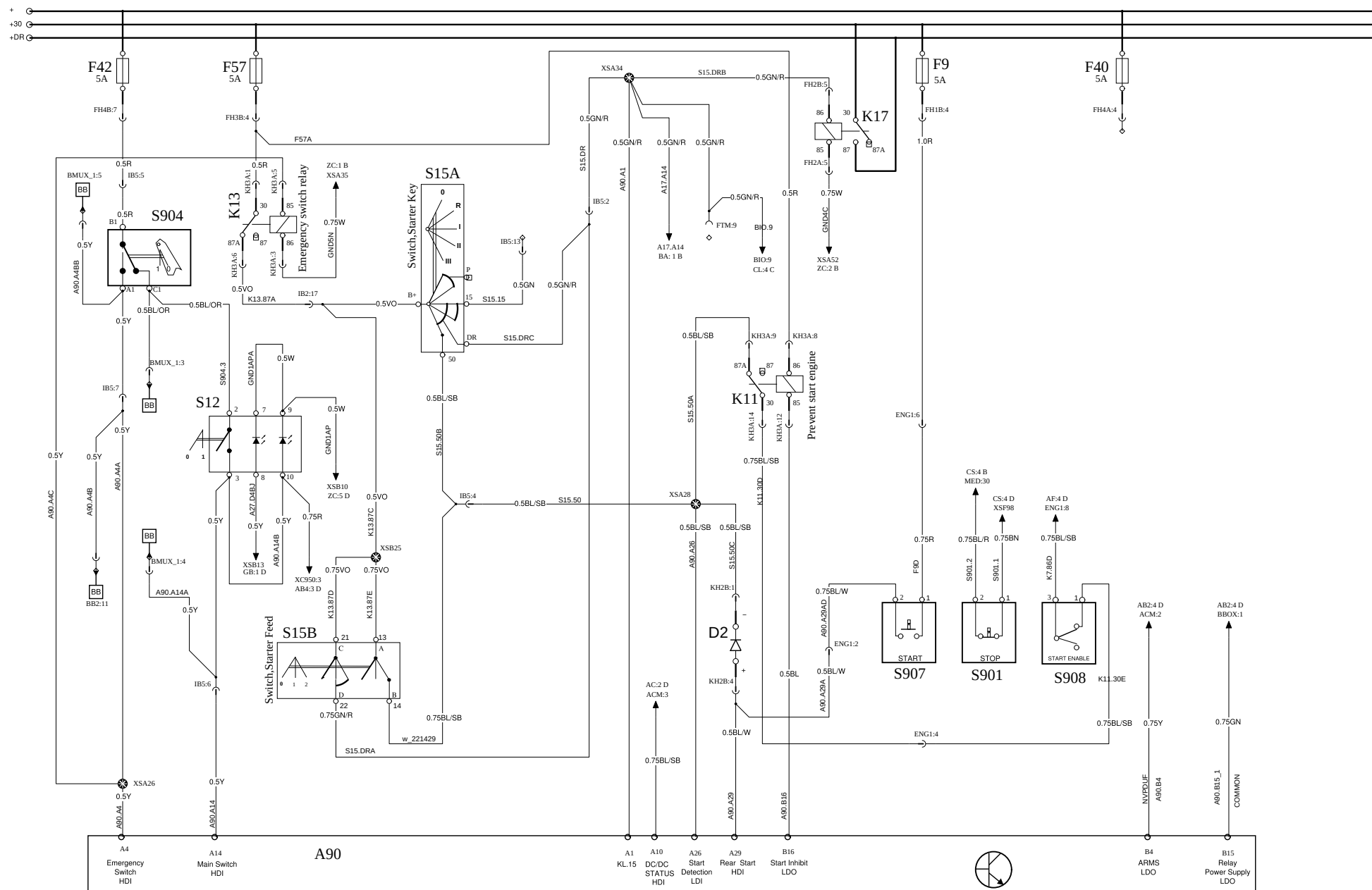
01

Volume

1 (2)

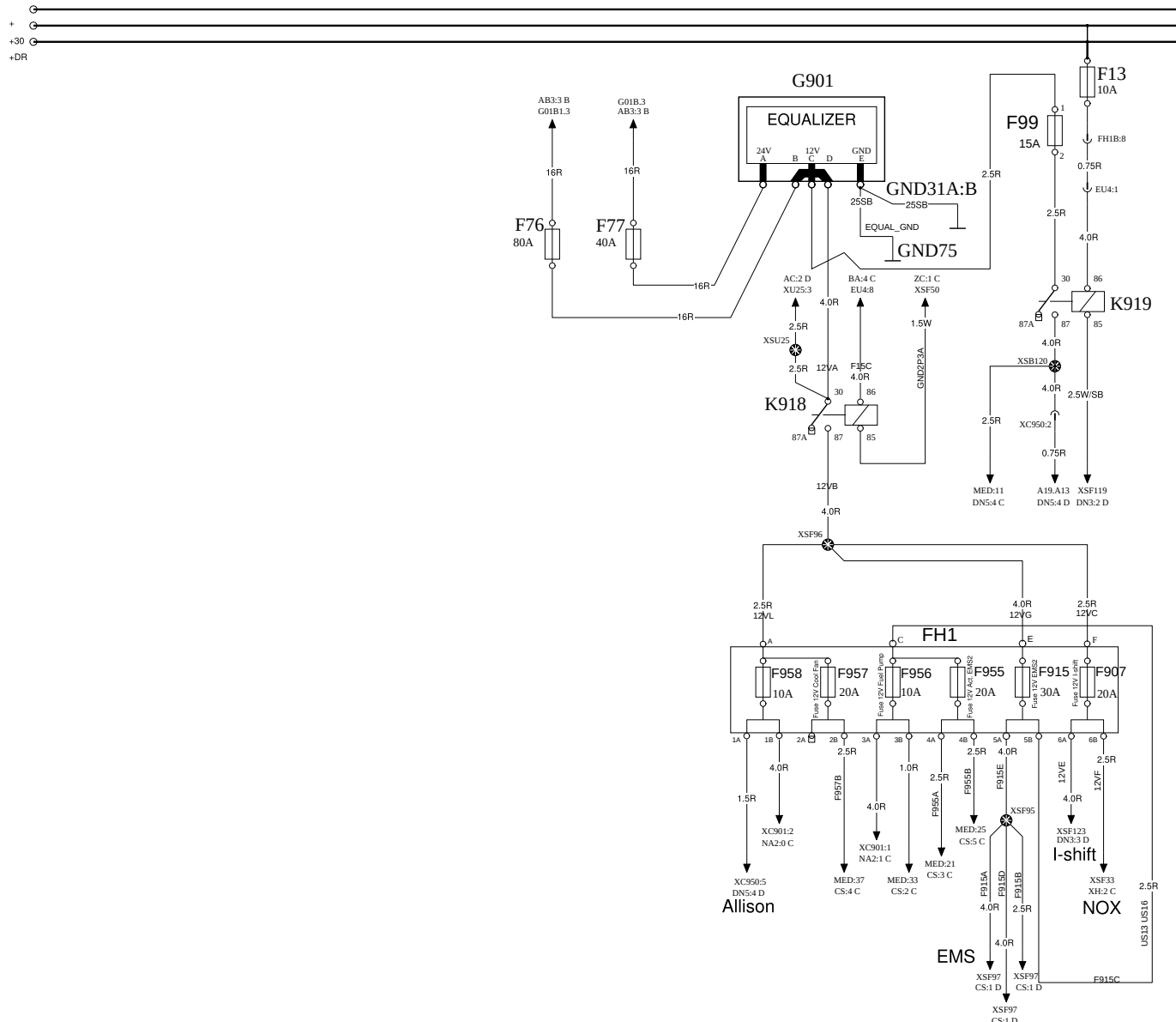
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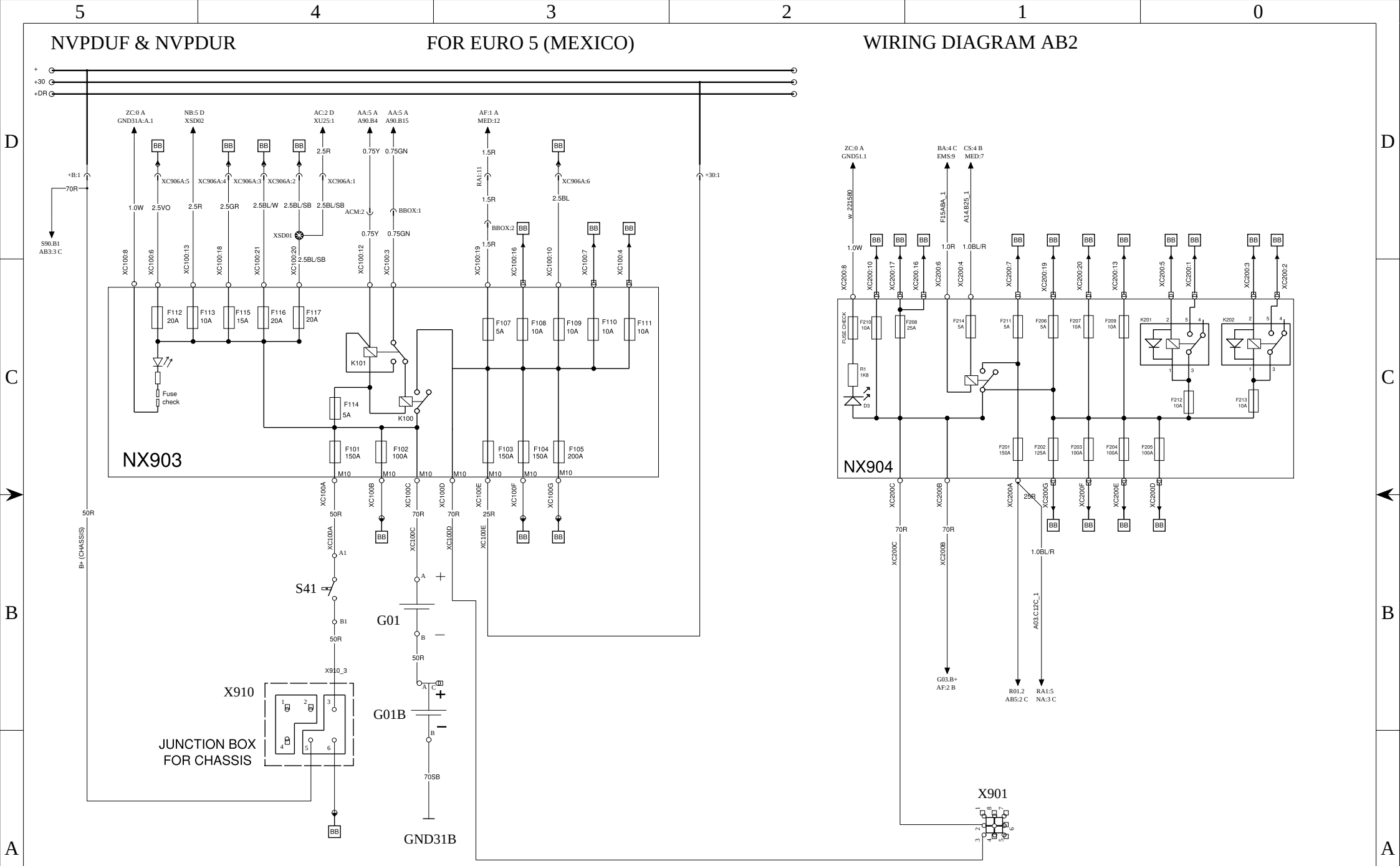
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# POWER SUPPLY

# WIRING DIAGRAM AB

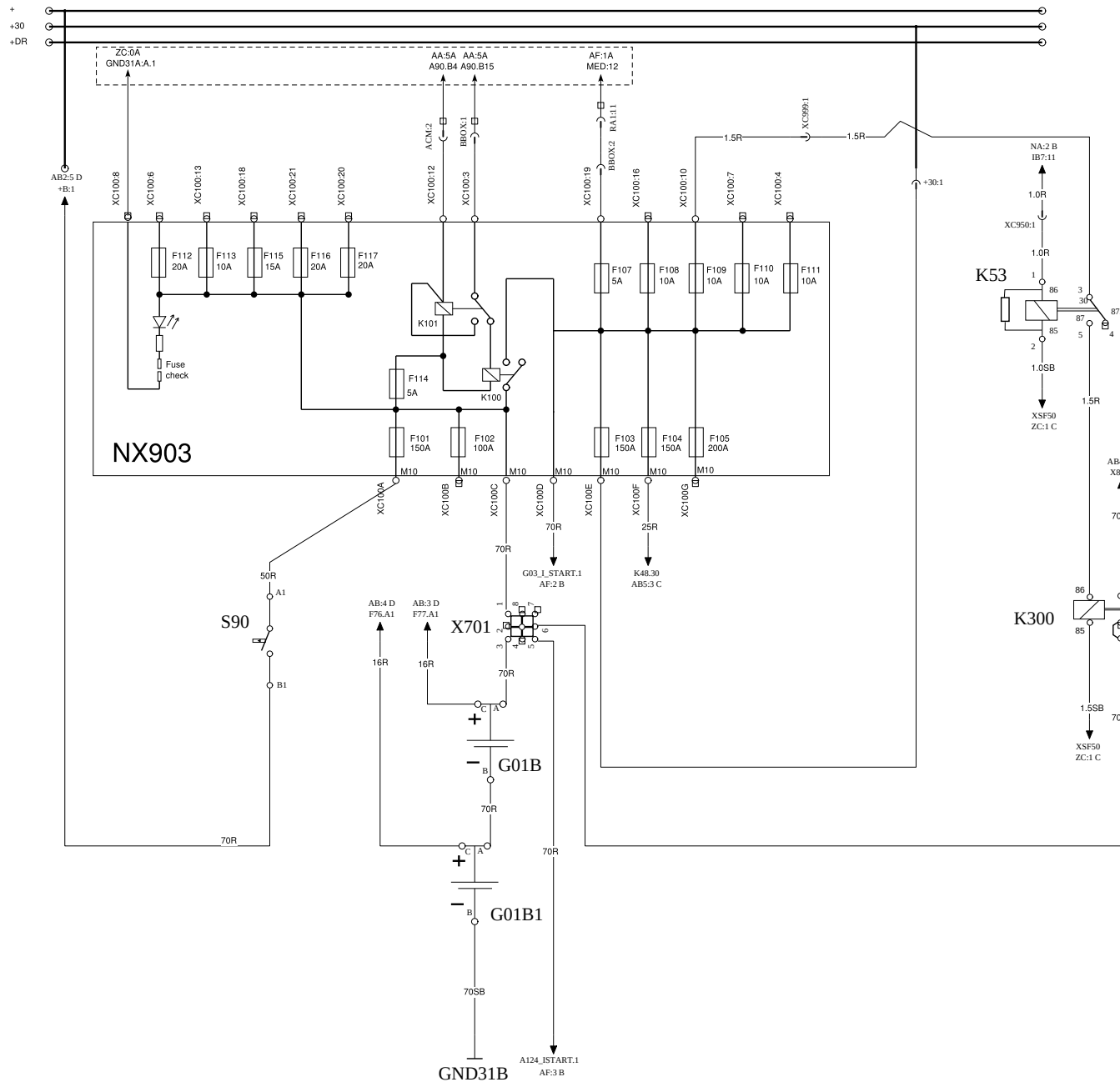


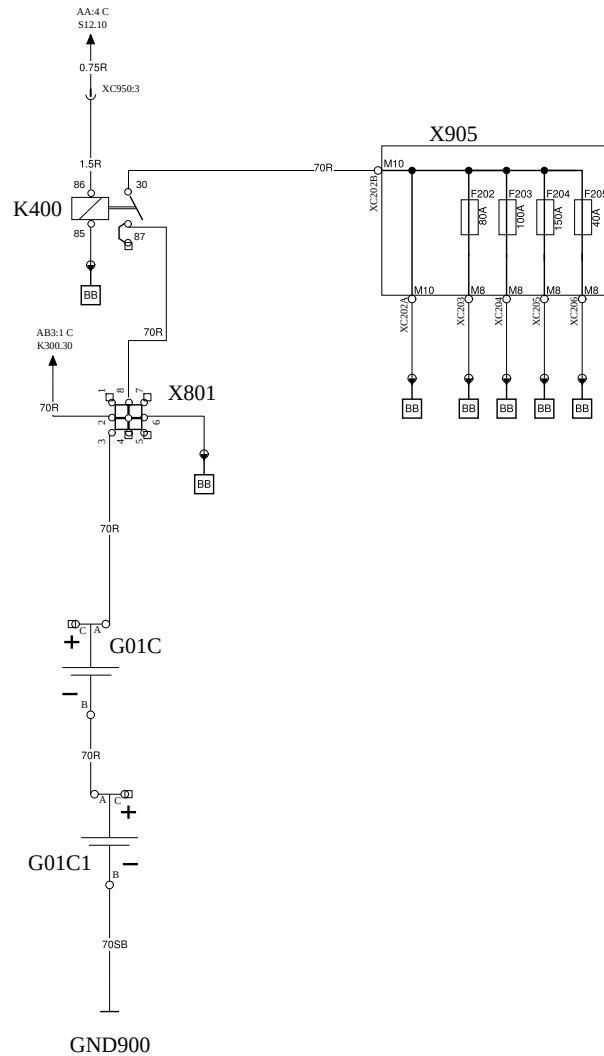


# STARTER BATTERY

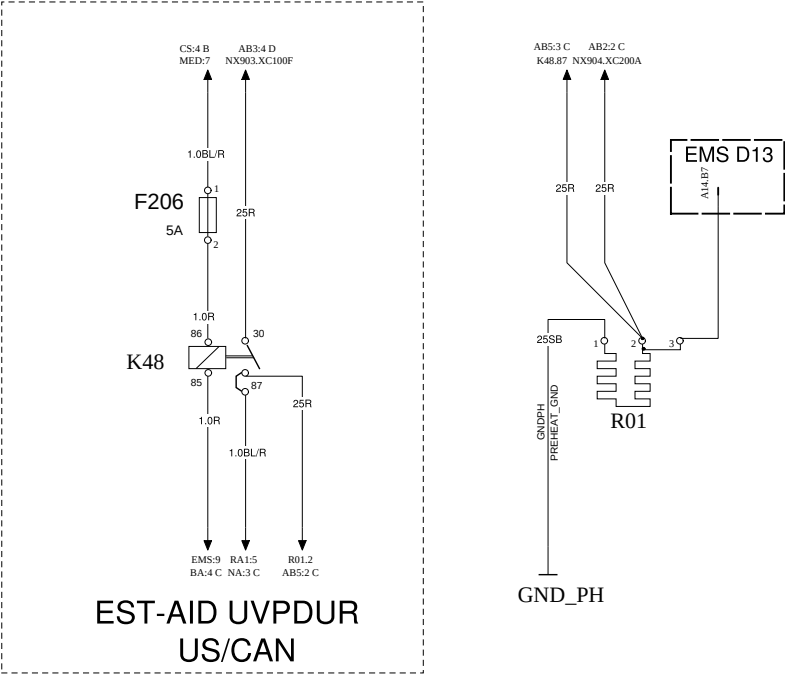
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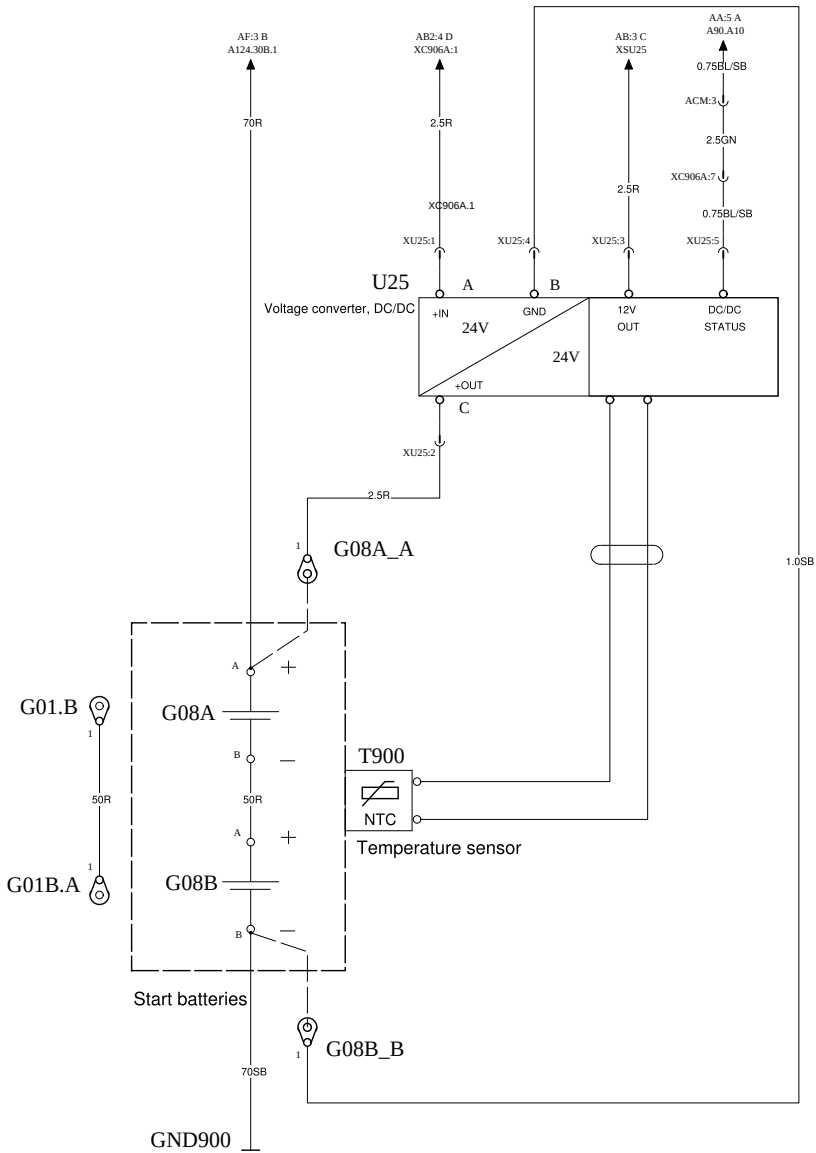
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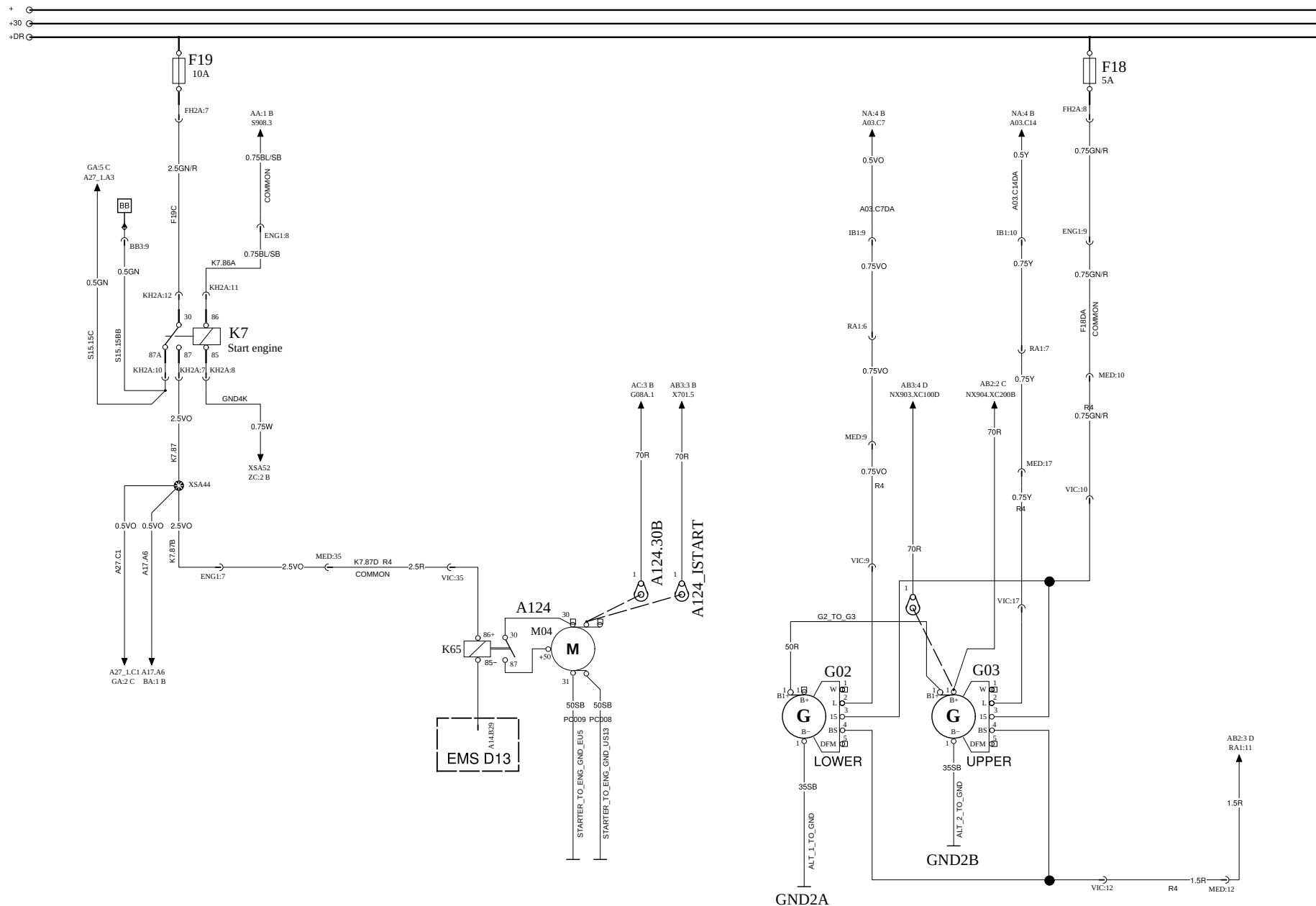






# STARTER MOTOR AND ALTERNATORS

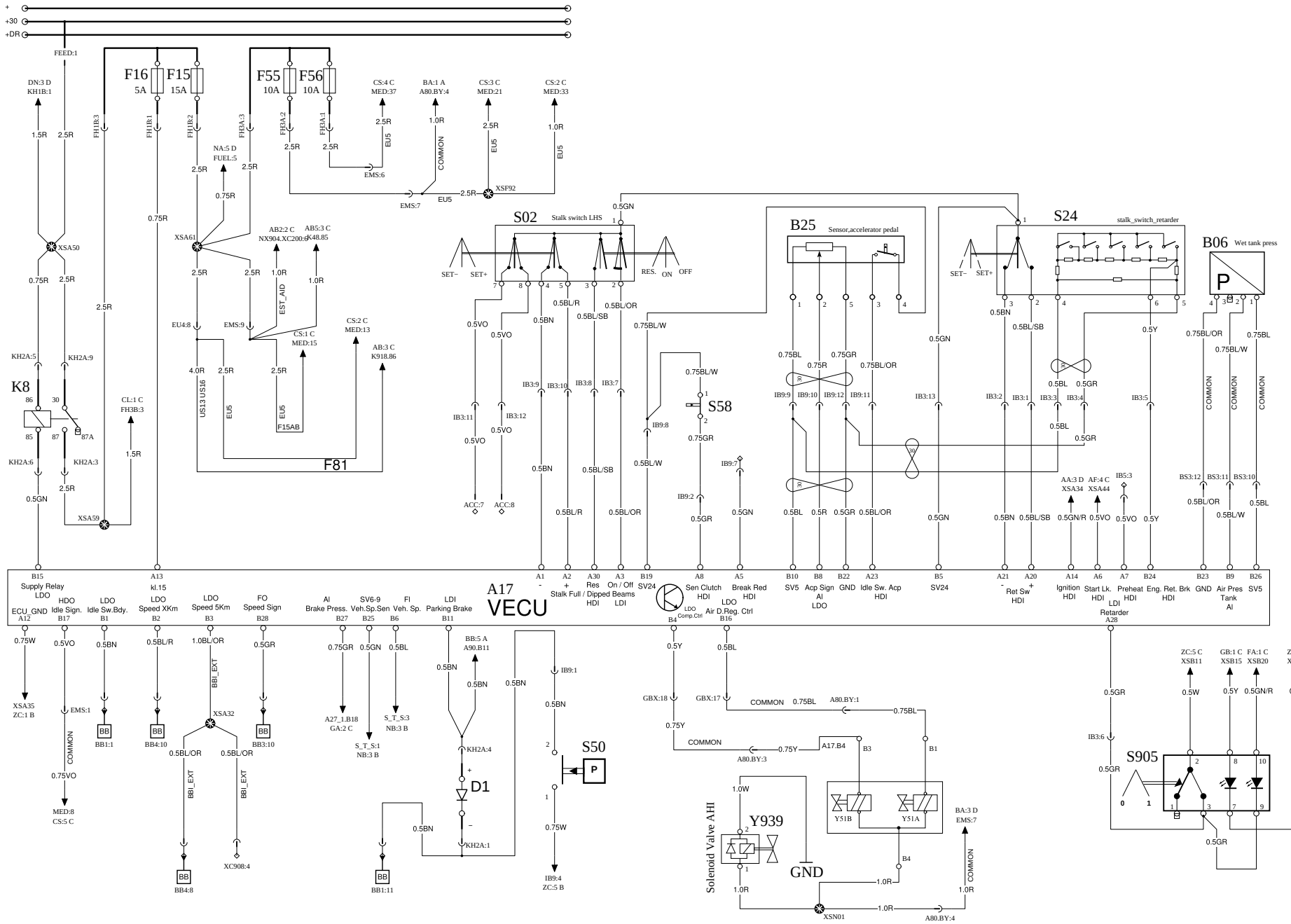
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# VECU

# VEHICLE ECU

# WIRING DIAGRAM BA





Document type  
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22610880

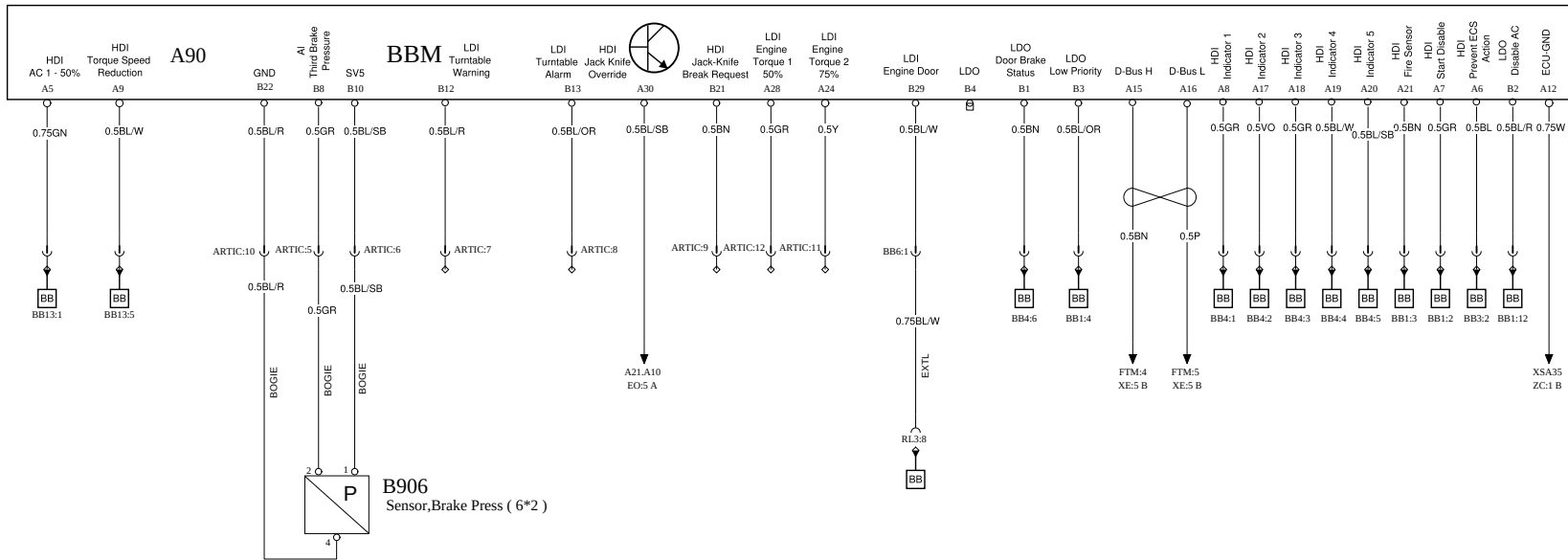
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BODY BUILDER MODULE

WIRING DIAGRAM BC



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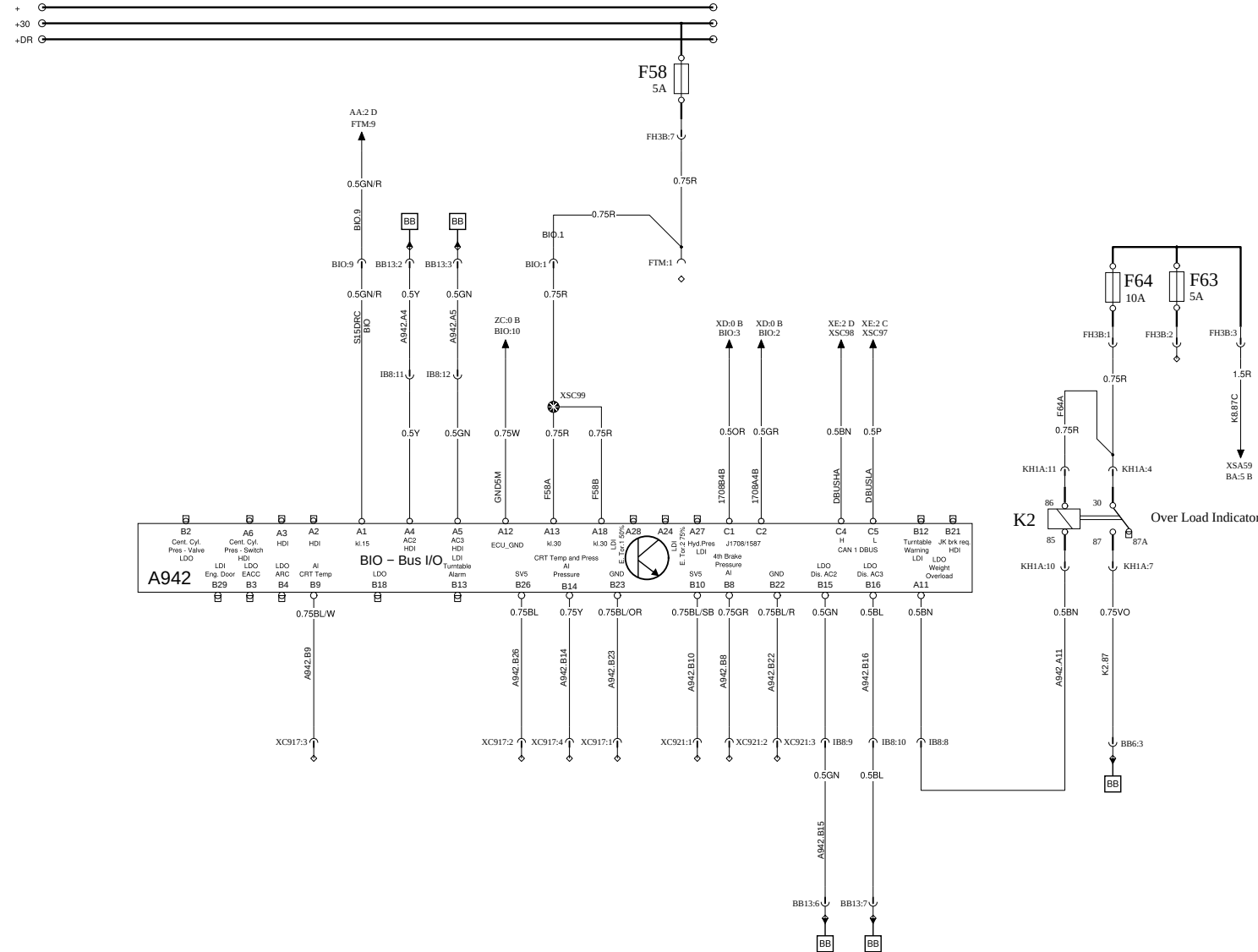
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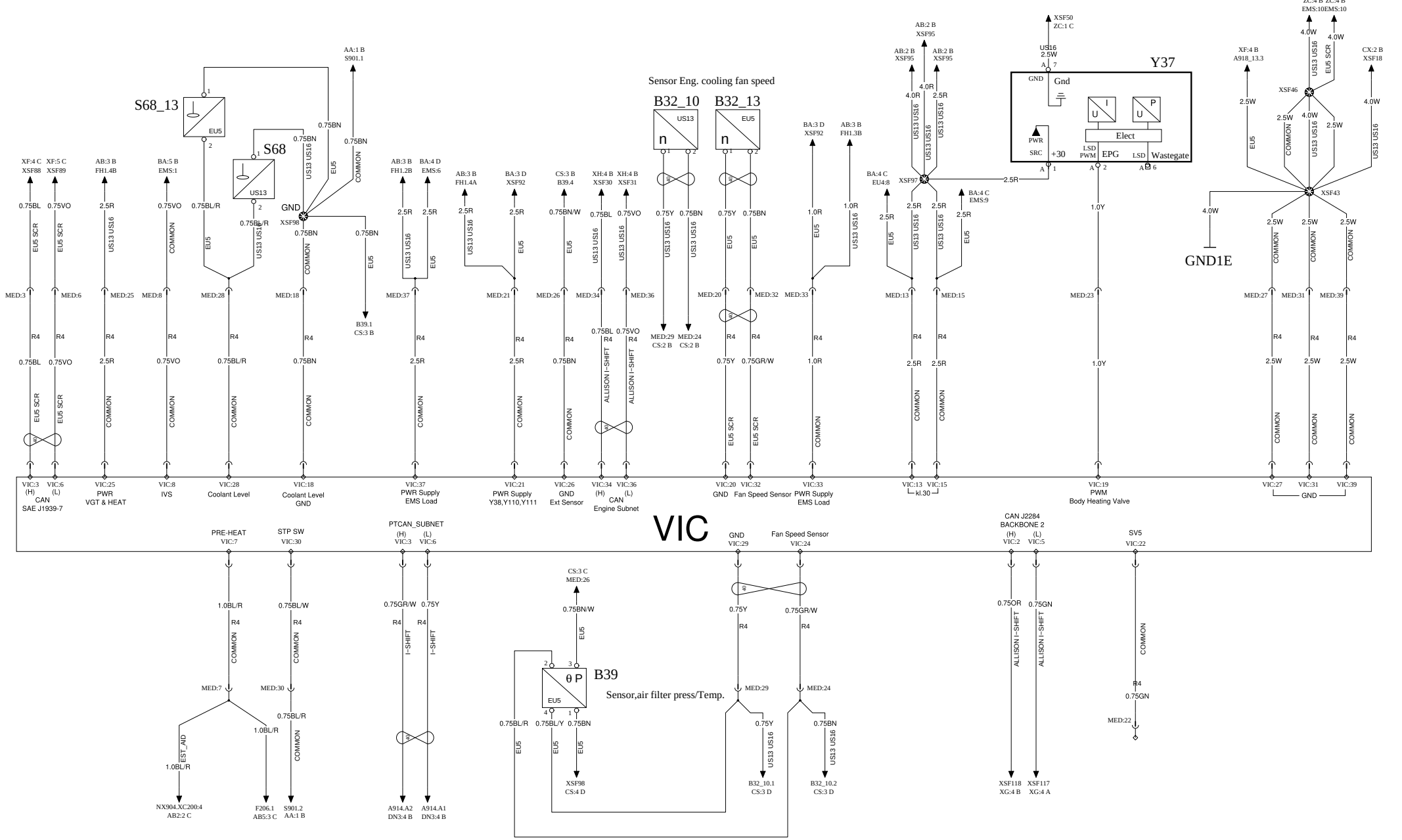
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ENGINE INTERFACE D13

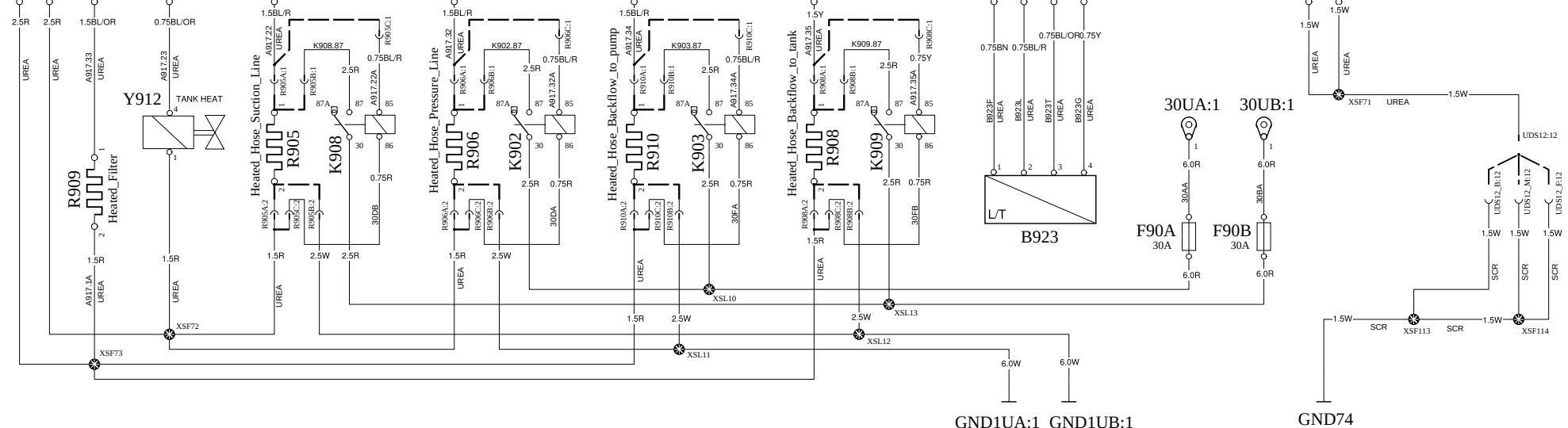
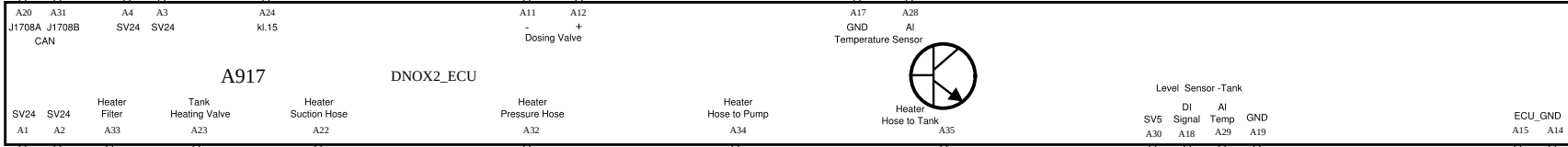
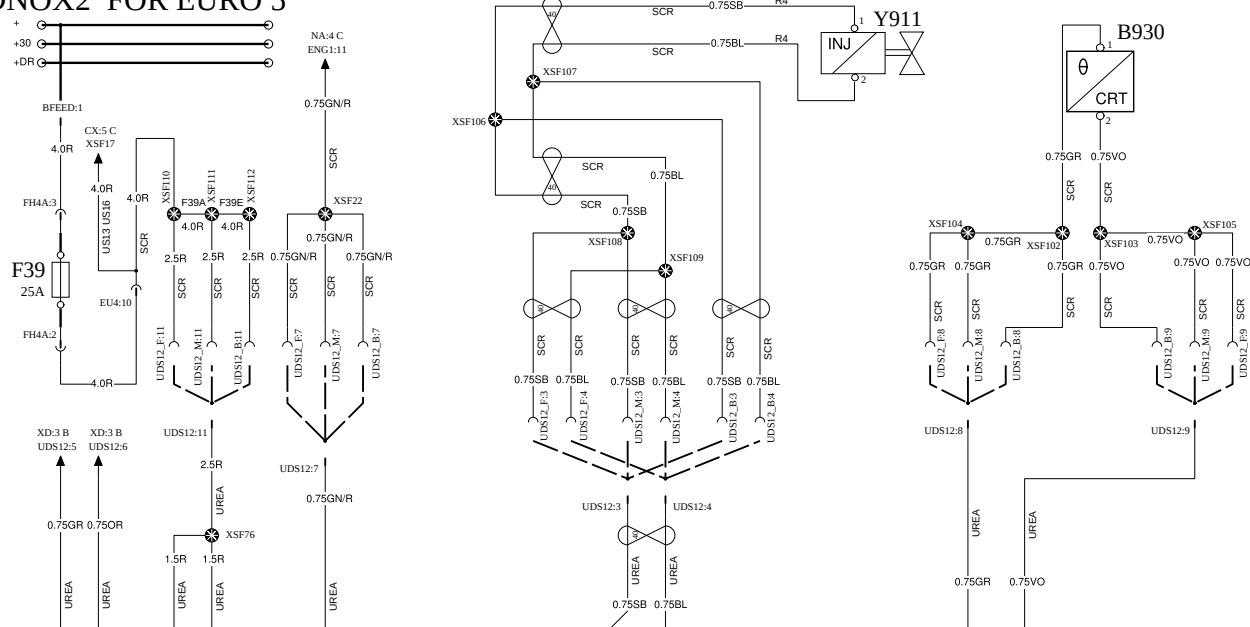
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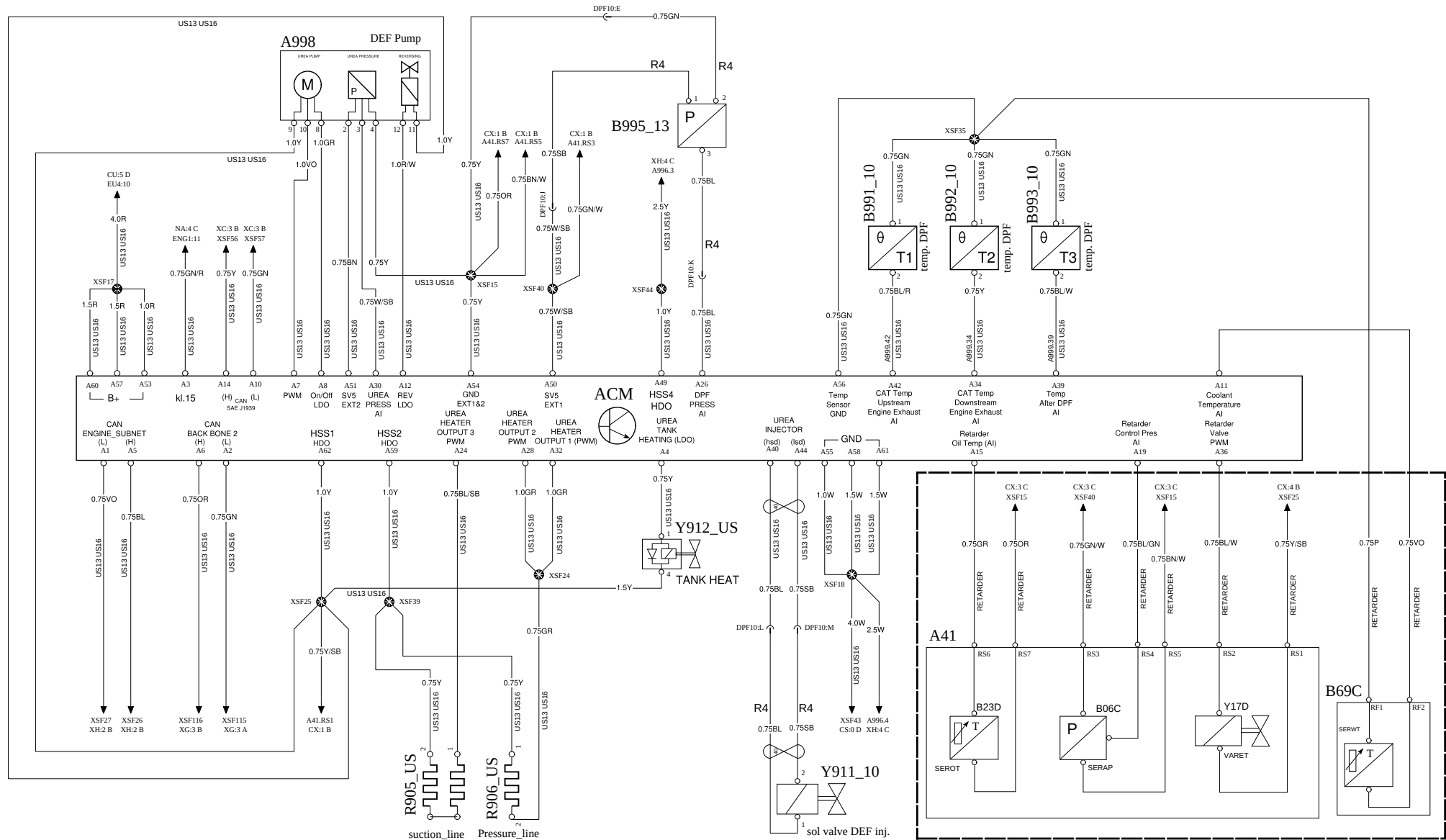




DNOX2 FOR EURO 5

WIRING DIAGRAM CU

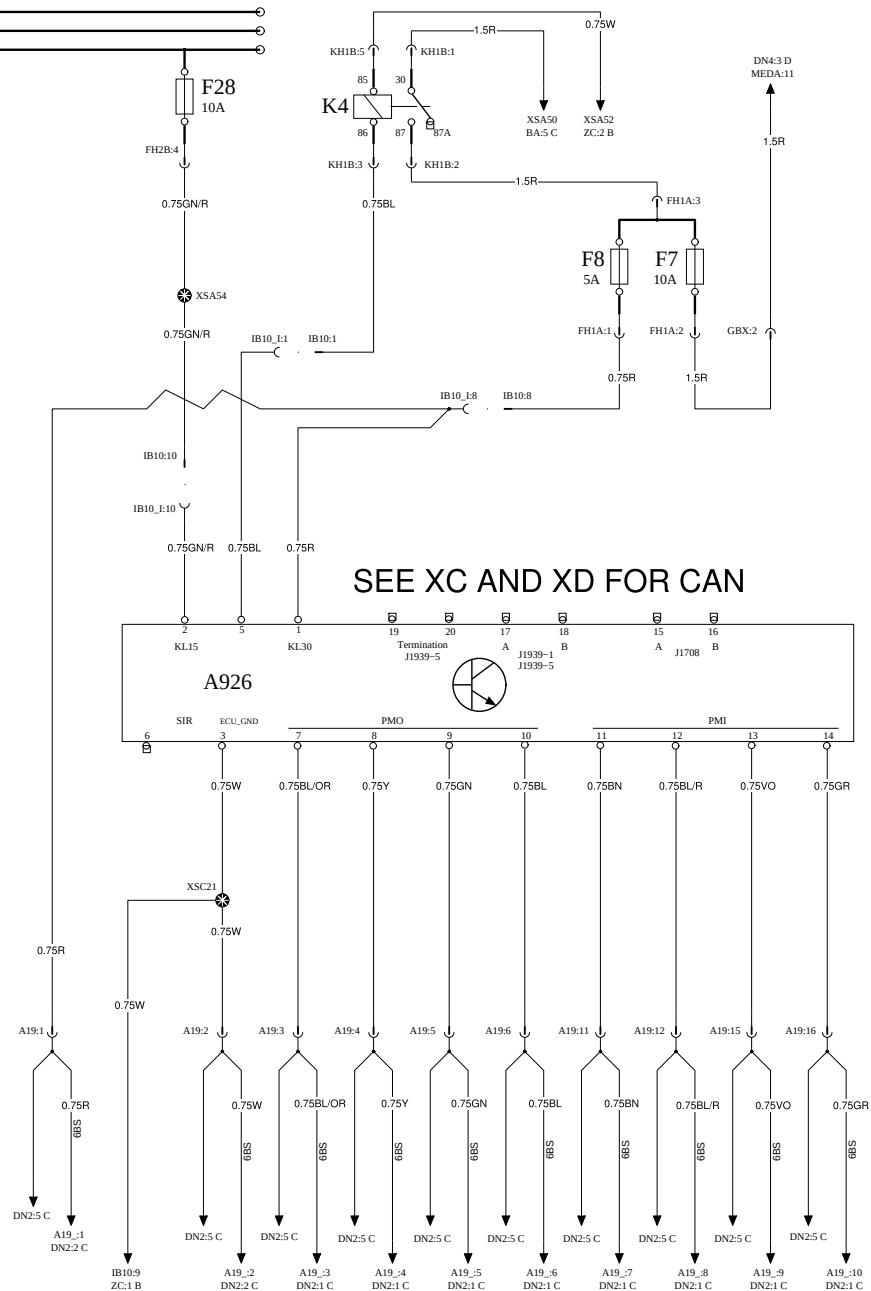




## I-SHIFT

## GECU

## WIRING DIAGRAM DN



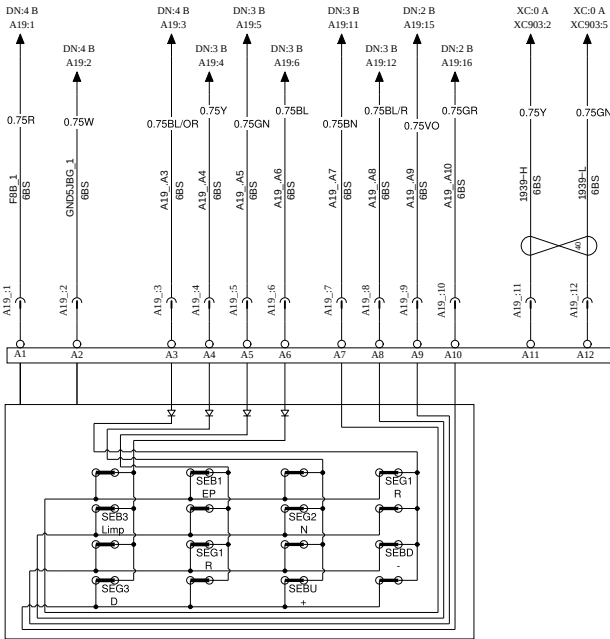
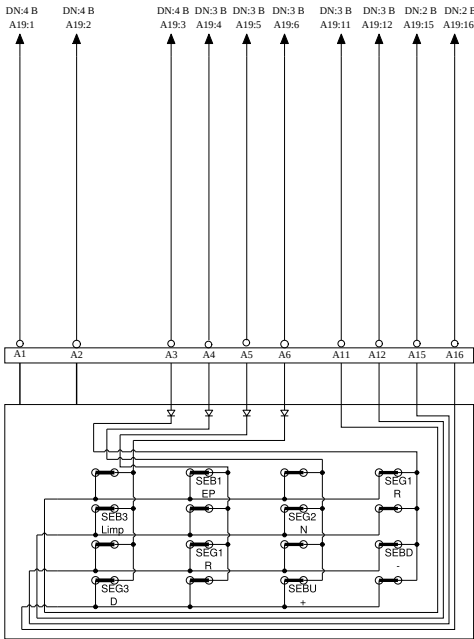
I-SHIFT

GEAR LEVER

WIRING DIAGRAM DN2

GEAR LEVER GSS-STD, GSS-PRO AND GSS-4BS

GEAR LEVER GSS-6BS



CONNECTIONS

| PIN | SIGNAL NAME | ASSIGNMENT      |
|-----|-------------|-----------------|
| 1   | UBATT       | MAIN SUPPLY     |
| 2   | GND         | MAIN GROUND     |
| 3   | INP1        | MATRIX INPUT 1  |
| 4   | INP2        | MATRIX INPUT 2  |
| 5   | INP3        | MATRIX INPUT 3  |
| 6   | INP4        | MATRIX INPUT 4  |
| 11  | OUP1        | MATRIX OUTPUT 1 |
| 12  | OUP2        | MATRIX OUTPUT 2 |
| 15  | OUP3        | MATRIX OUTPUT 3 |
| 16  | OUP4        | MATRIX OUTPUT 4 |

CONNECTIONS

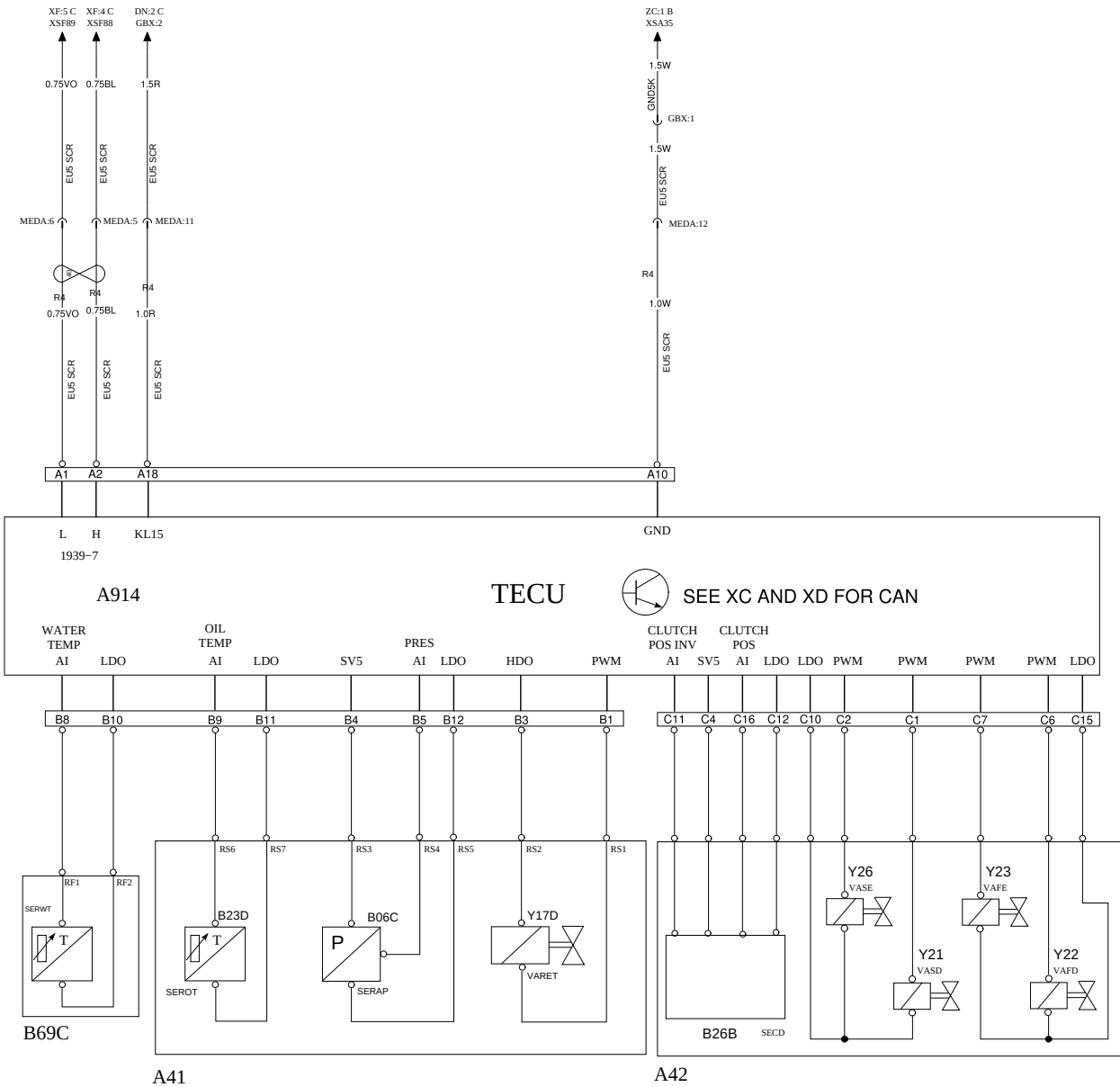
| PIN | SIGNAL NAME | ASSIGNMENT      | PIN | SIGNAL NAME |
|-----|-------------|-----------------|-----|-------------|
| 1   | UBATT       | MAIN SUPPLY     | 11  | J1939-H     |
| 2   | GND         | MAIN GROUND     | 12  | J1939-L     |
| 3   | INP1        | MATRIX INPUT 1  |     |             |
| 4   | INP2        | MATRIX INPUT 2  |     |             |
| 5   | INP3        | MATRIX INPUT 3  |     |             |
| 6   | INP4        | MATRIX INPUT 4  |     |             |
| 7   | OUP1        | MATRIX OUTPUT 1 |     |             |
| 8   | OUP2        | MATRIX OUTPUT 2 |     |             |
| 9   | OUP3        | MATRIX OUTPUT 3 |     |             |
| 10  | OUP4        | MATRIX OUTPUT 4 |     |             |

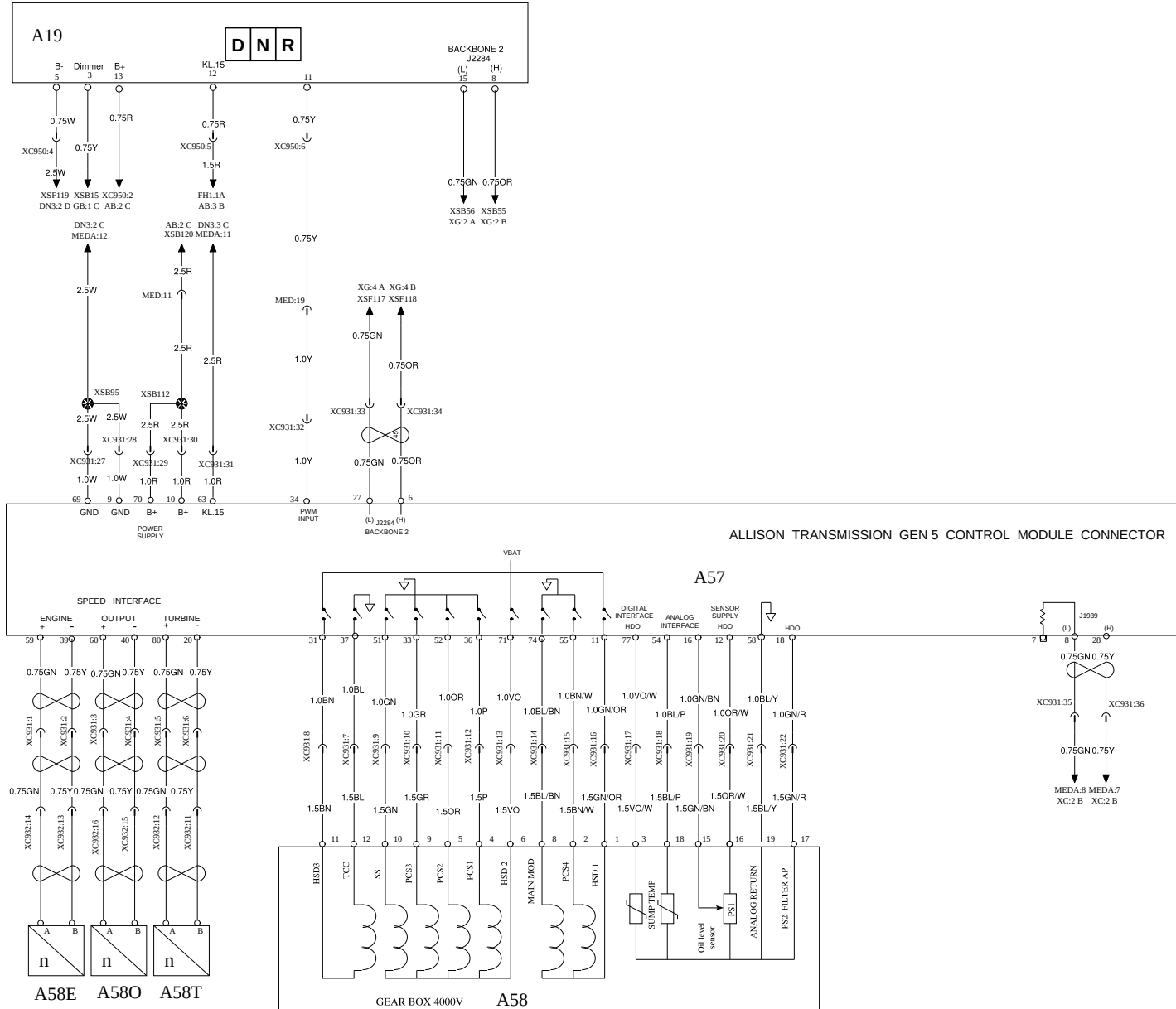


I-SHIFT

AT2612D FOR EURO 5

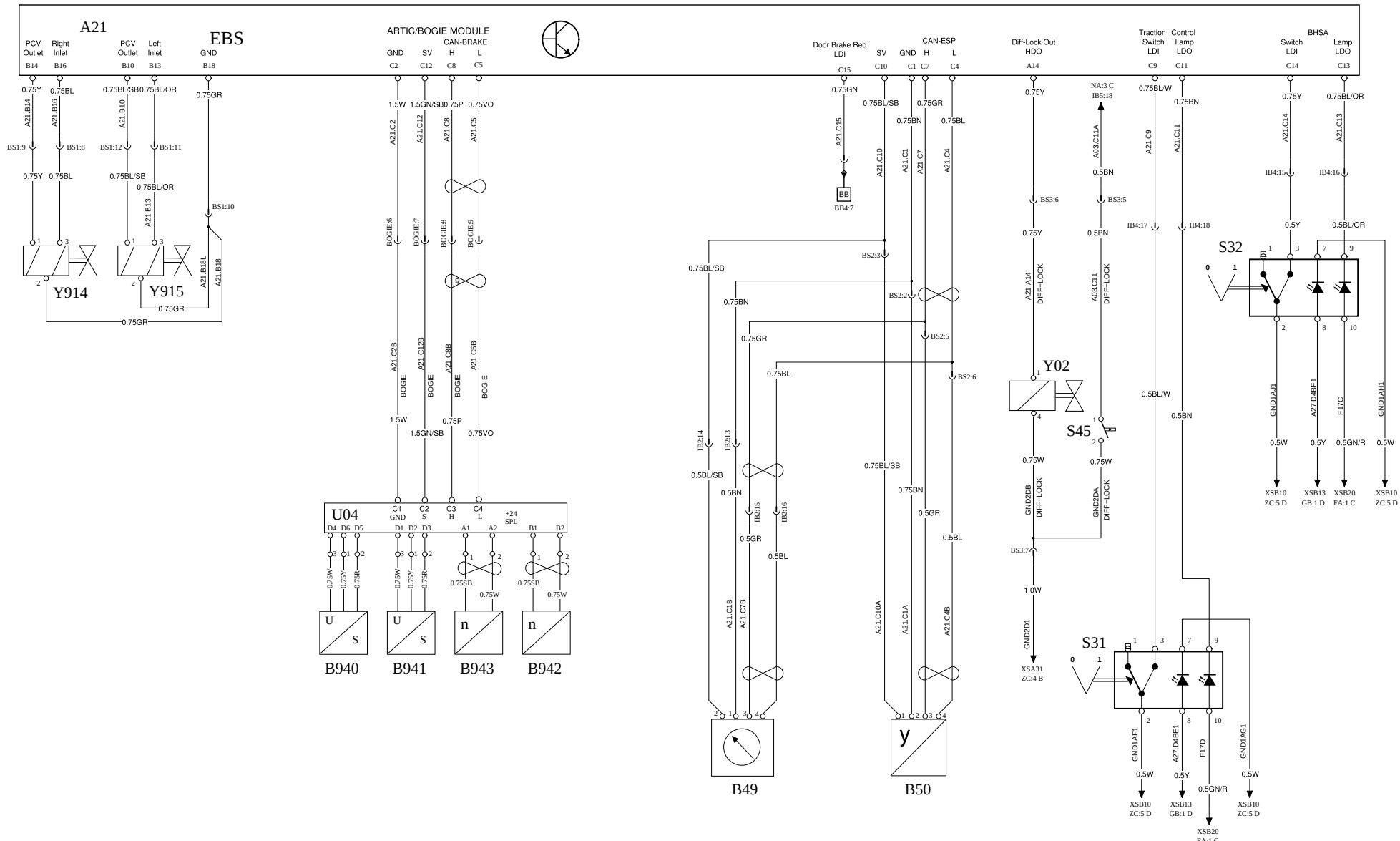
WIRING DIAGRAM DN4





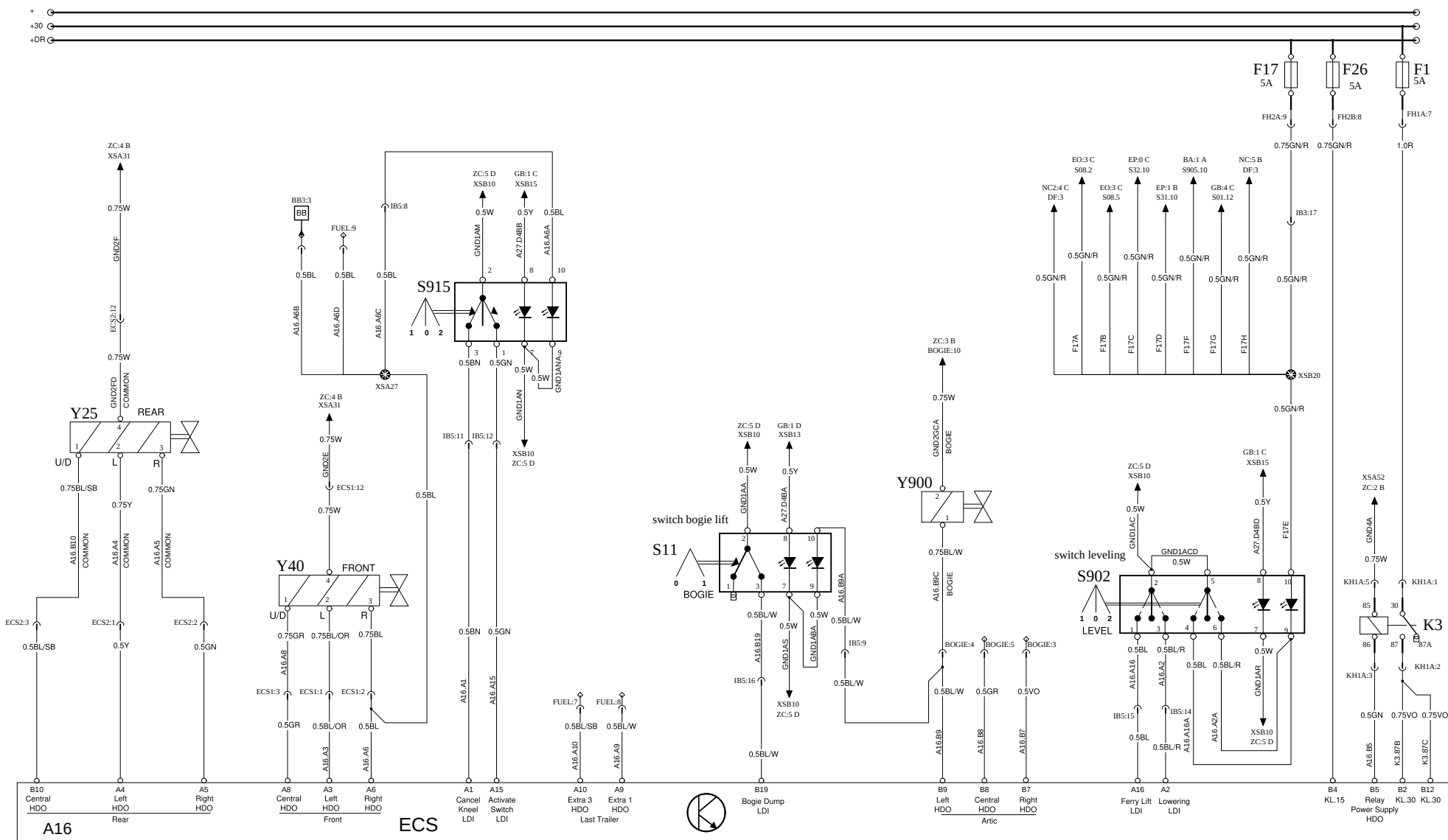
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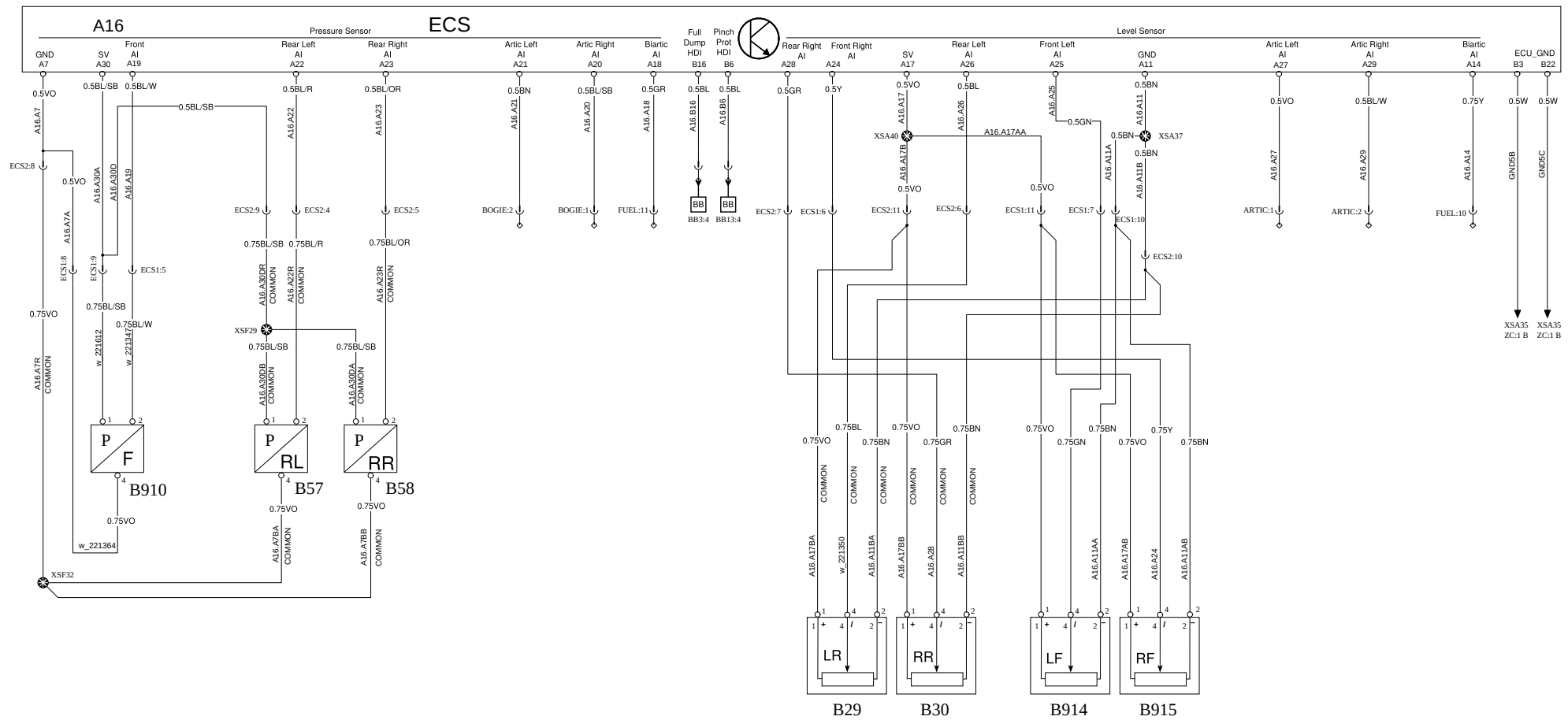




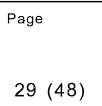
## AIR SUSPENSION ECS

## WIRING DIAGRAM FA





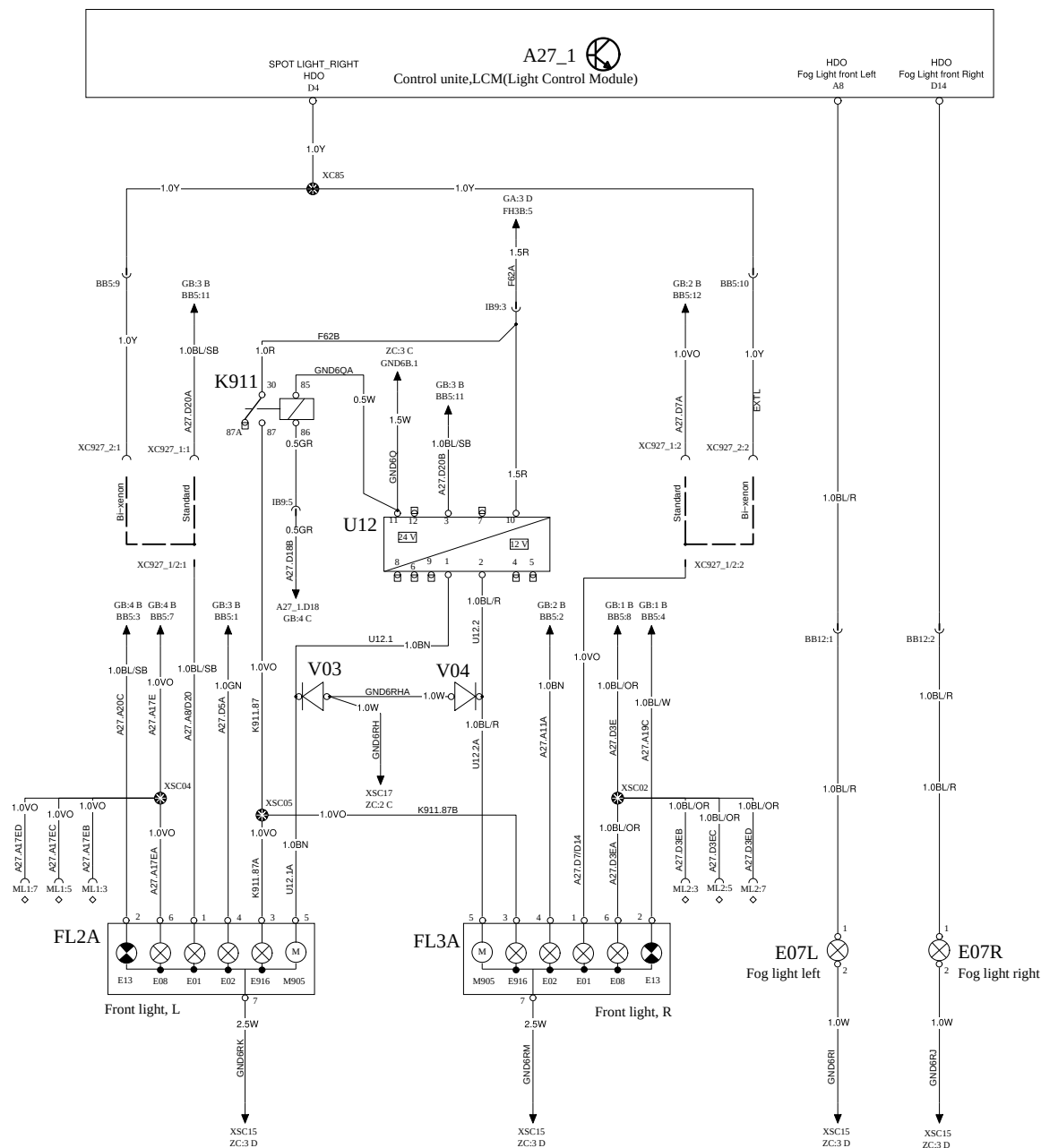




# LCM FRONT LIGHT

## BI-XENON LIGHT

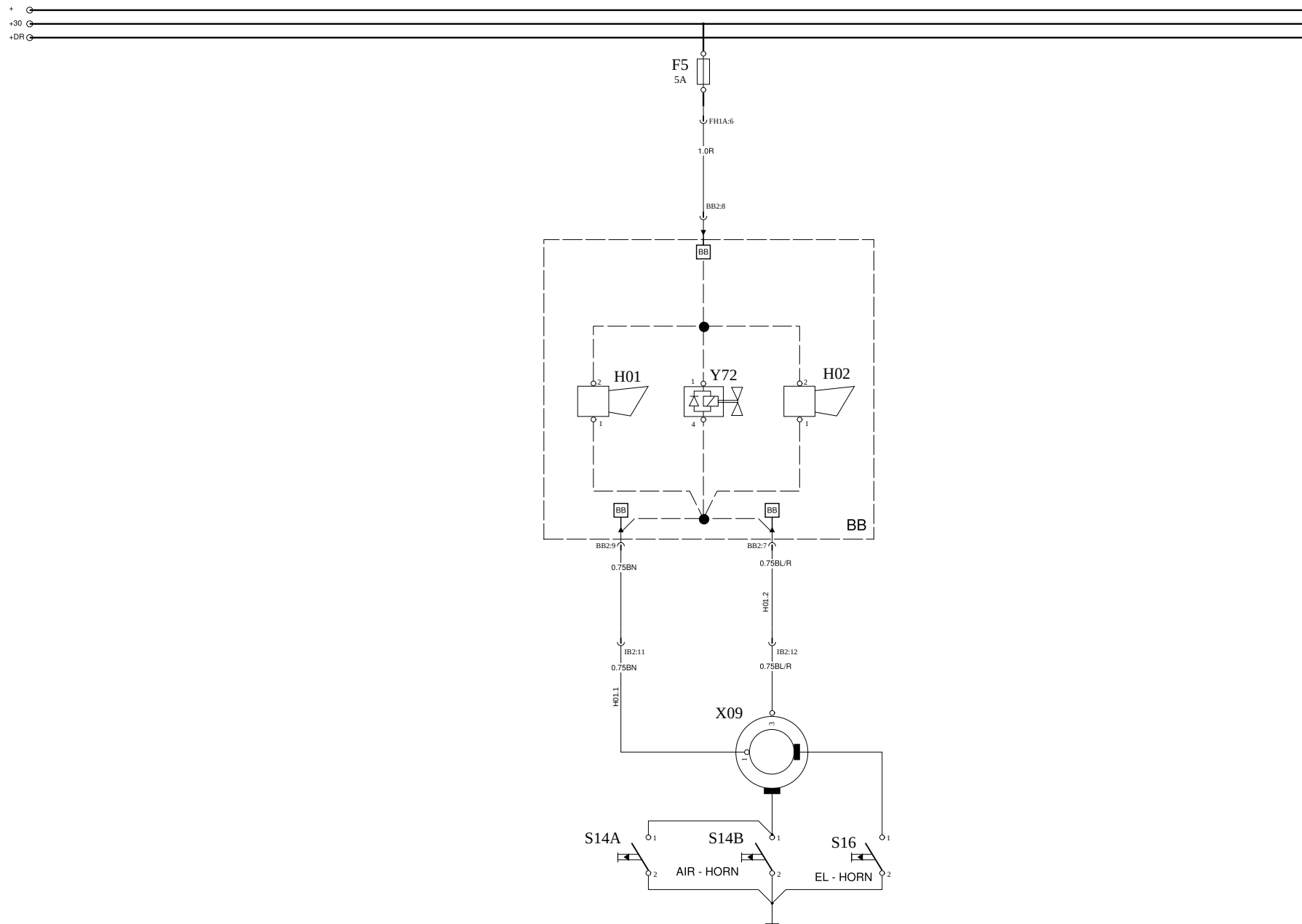
## WIRING DIAGRAM GE





HORN, SWM

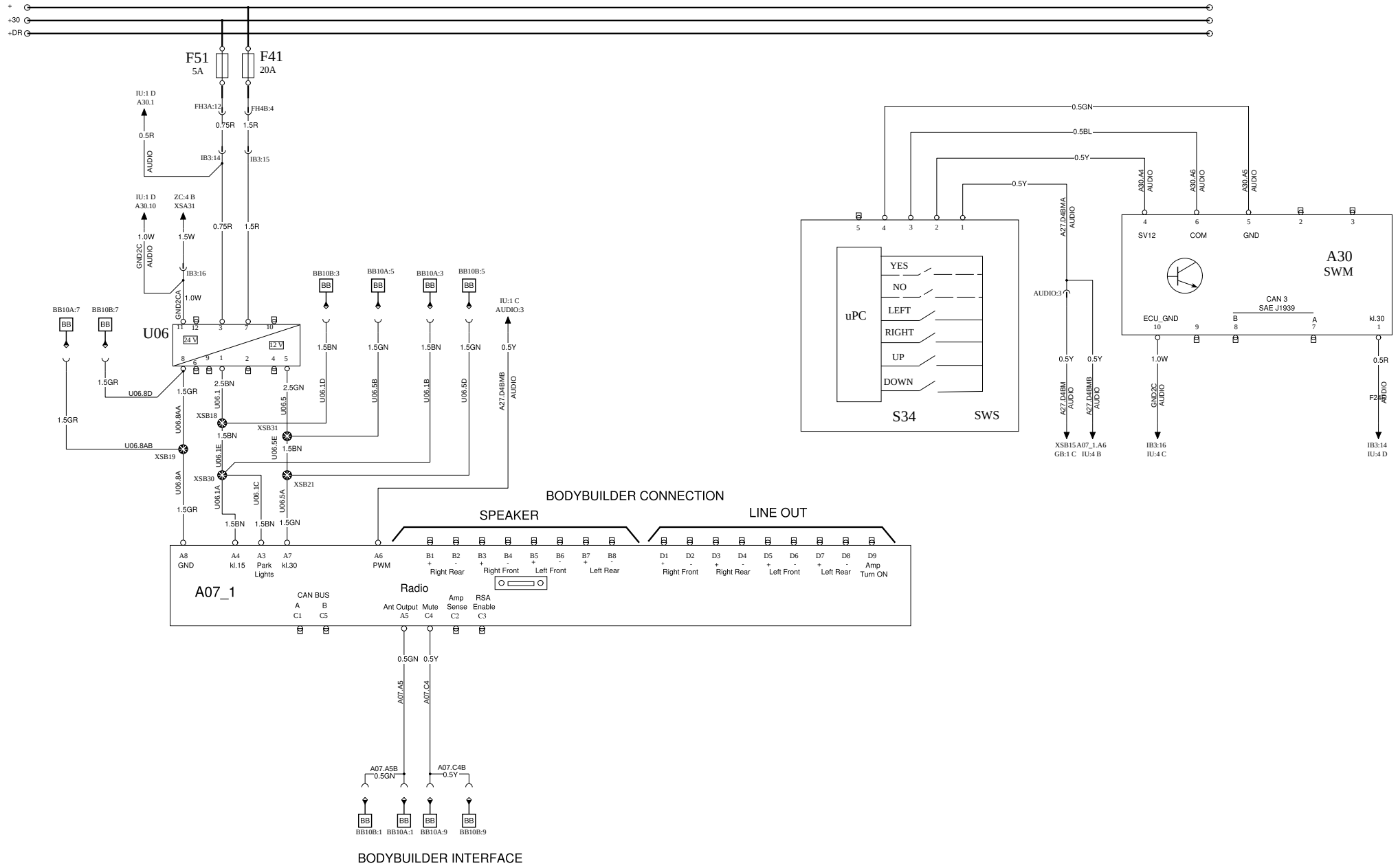
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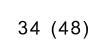


# AUDIO

# WIRING DIAGRAM IU



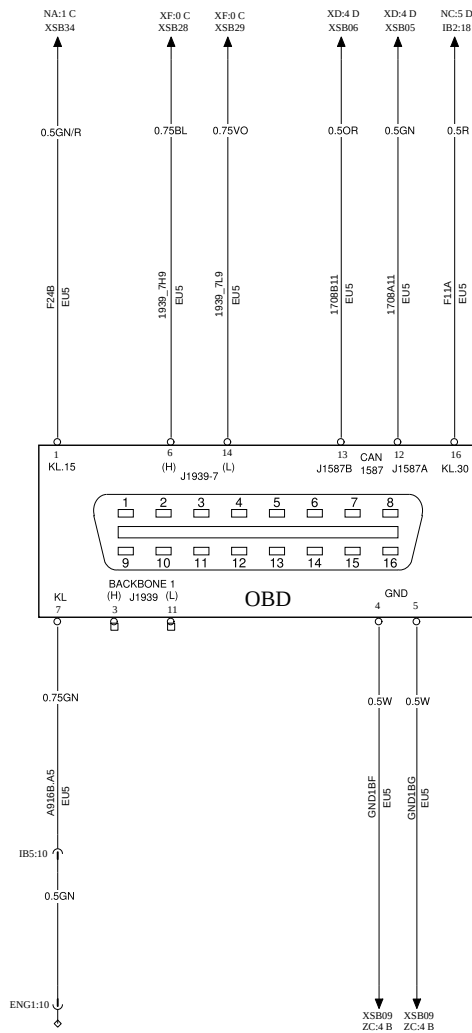
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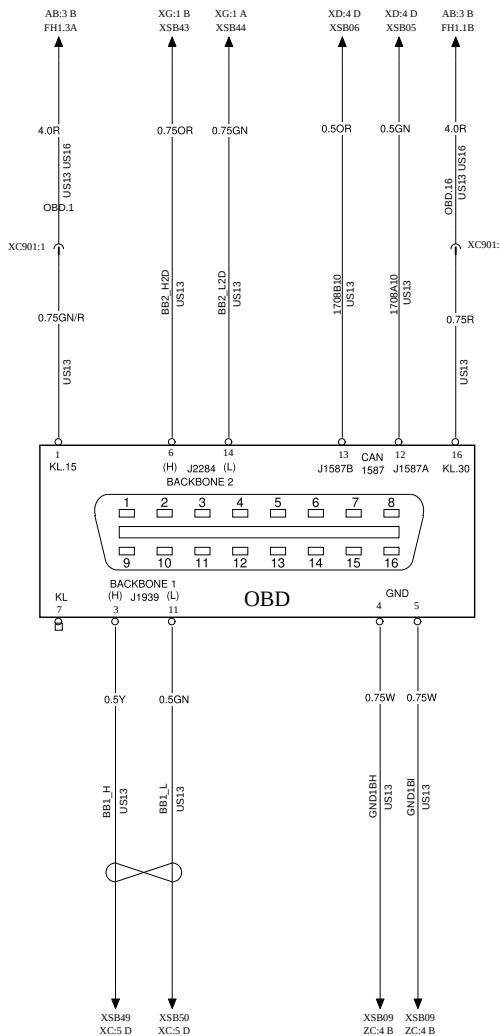
OBD, ON BOARD DIAGNOSTICS

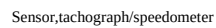
WIRING DIAGRAM NA2

CONNECTIONS FOR EURO 5

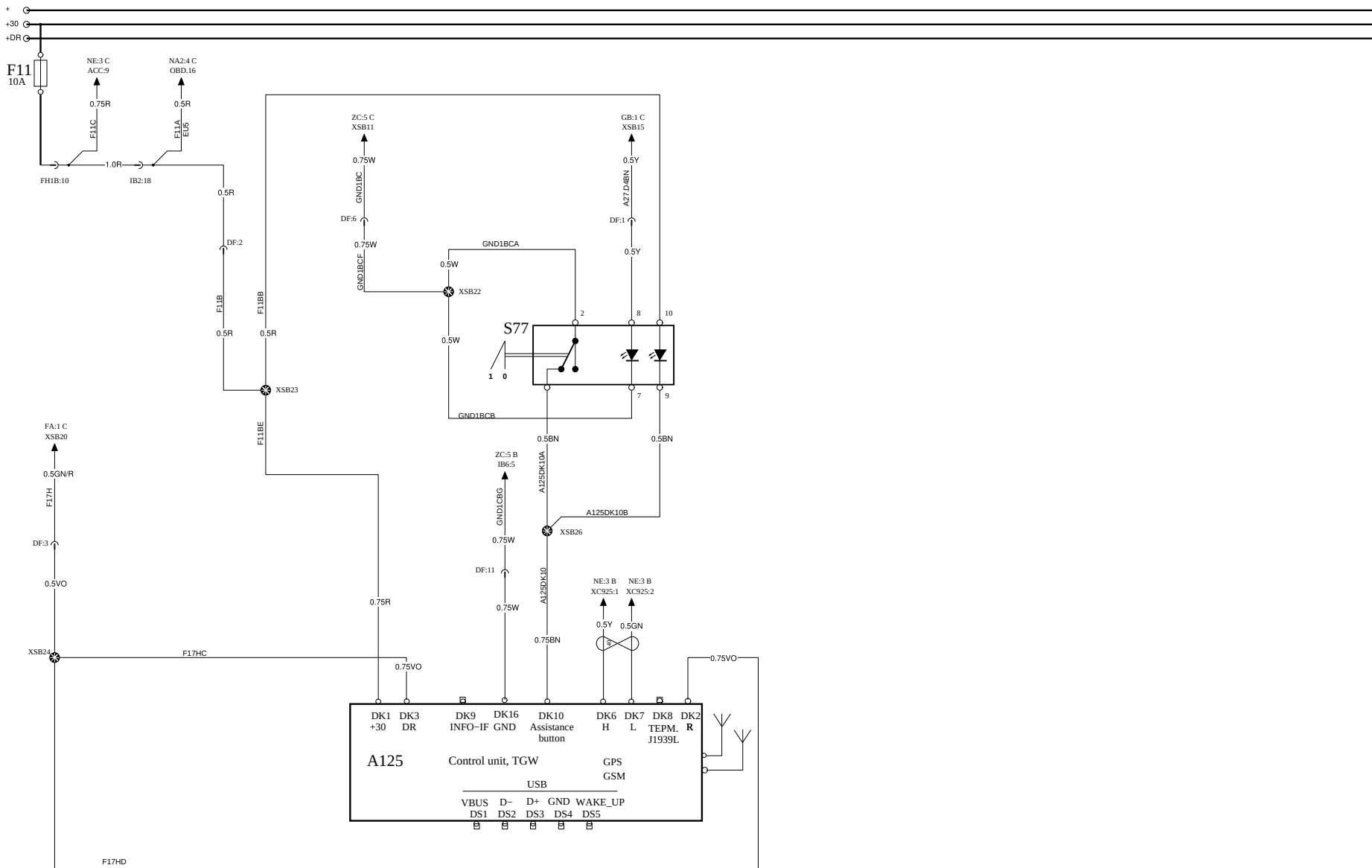


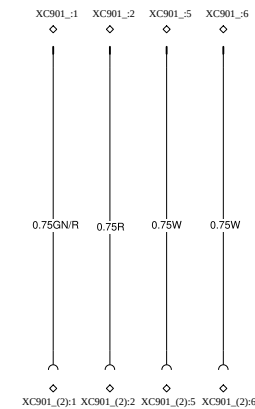
CONNECTIONS FOR OBD13

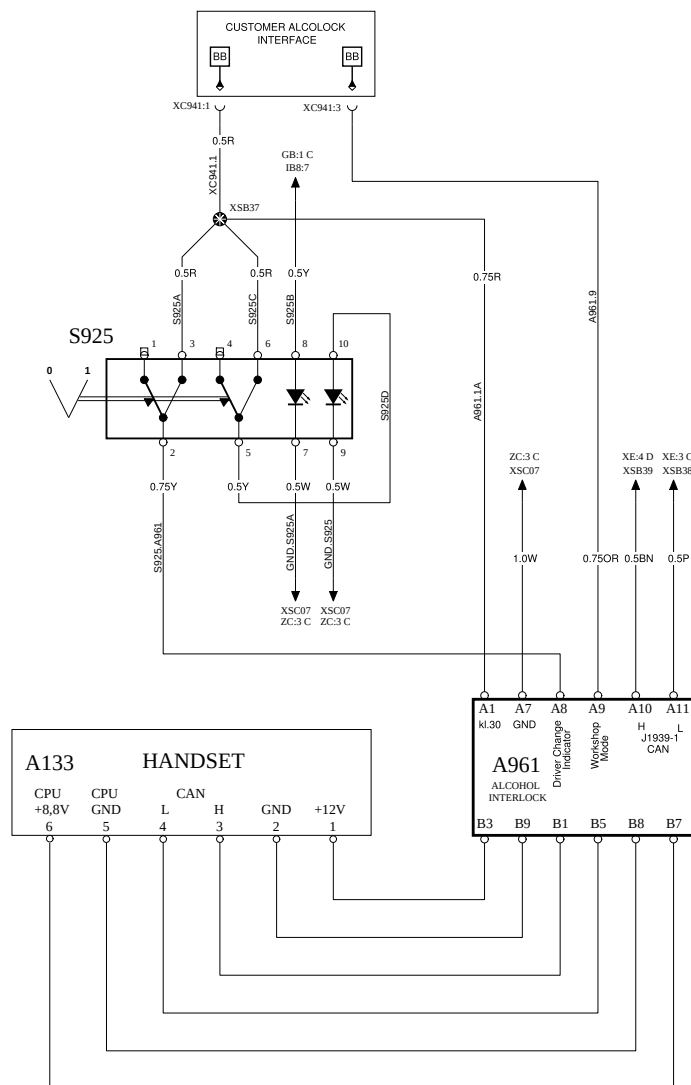




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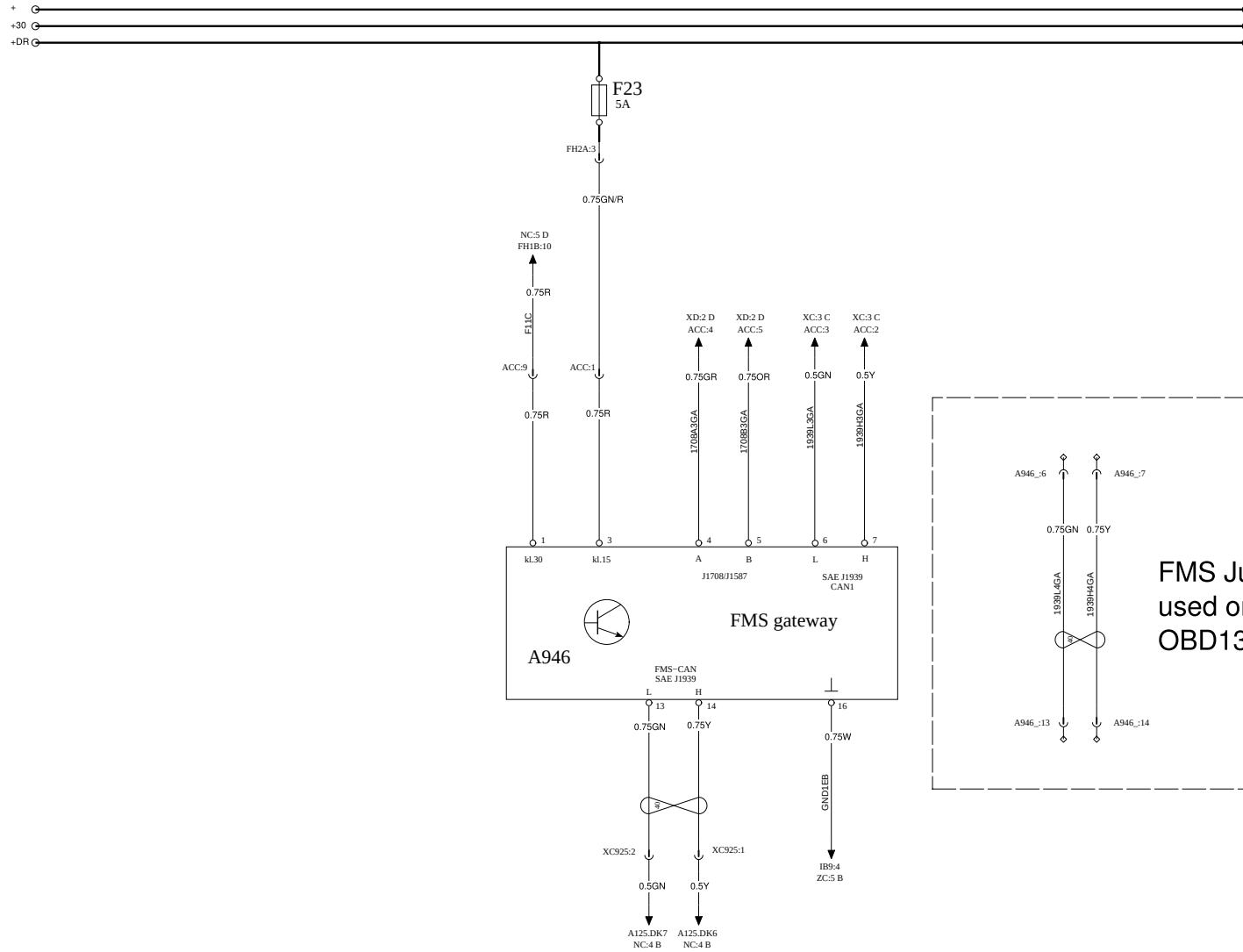






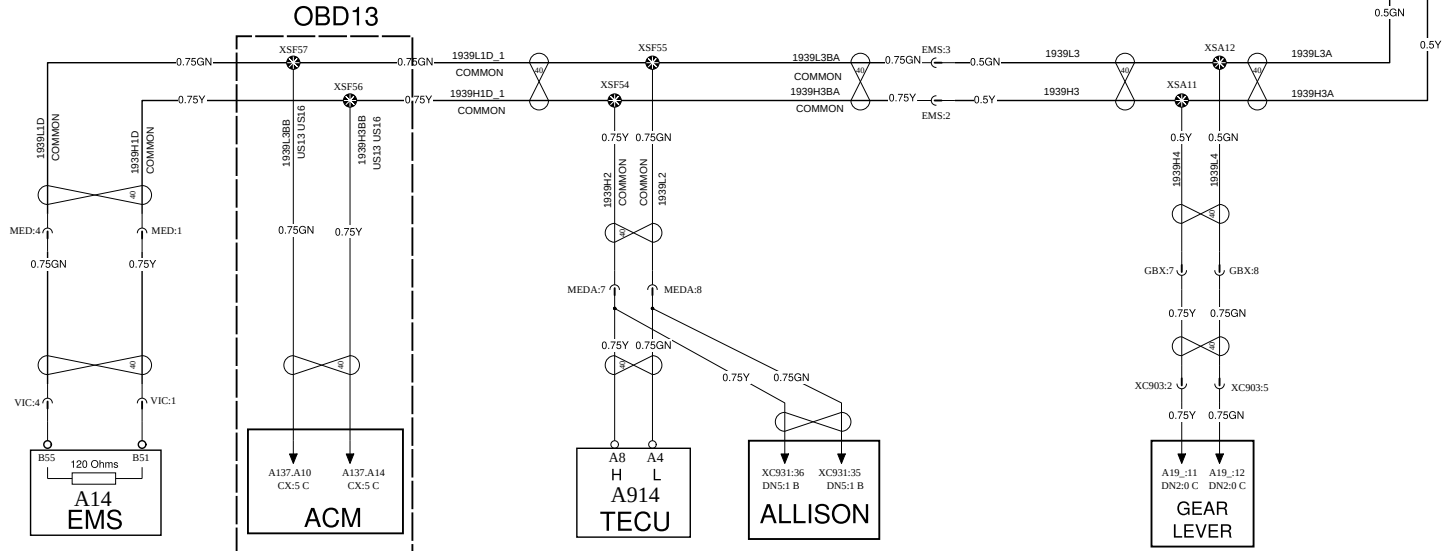
# FMS GATEWAY

# WIRING DIAGRAM NE



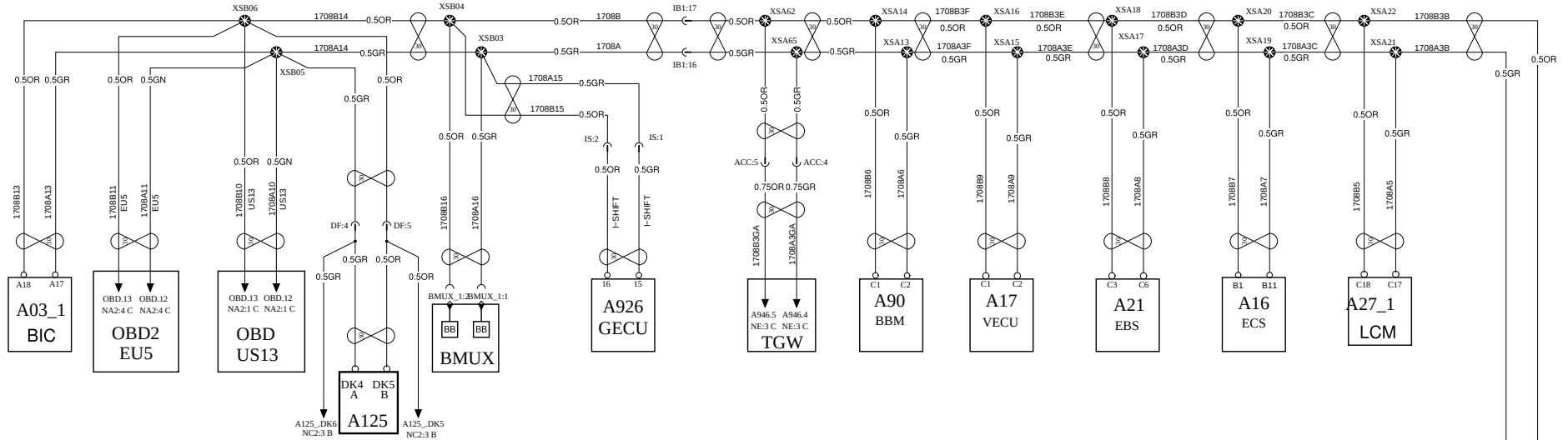


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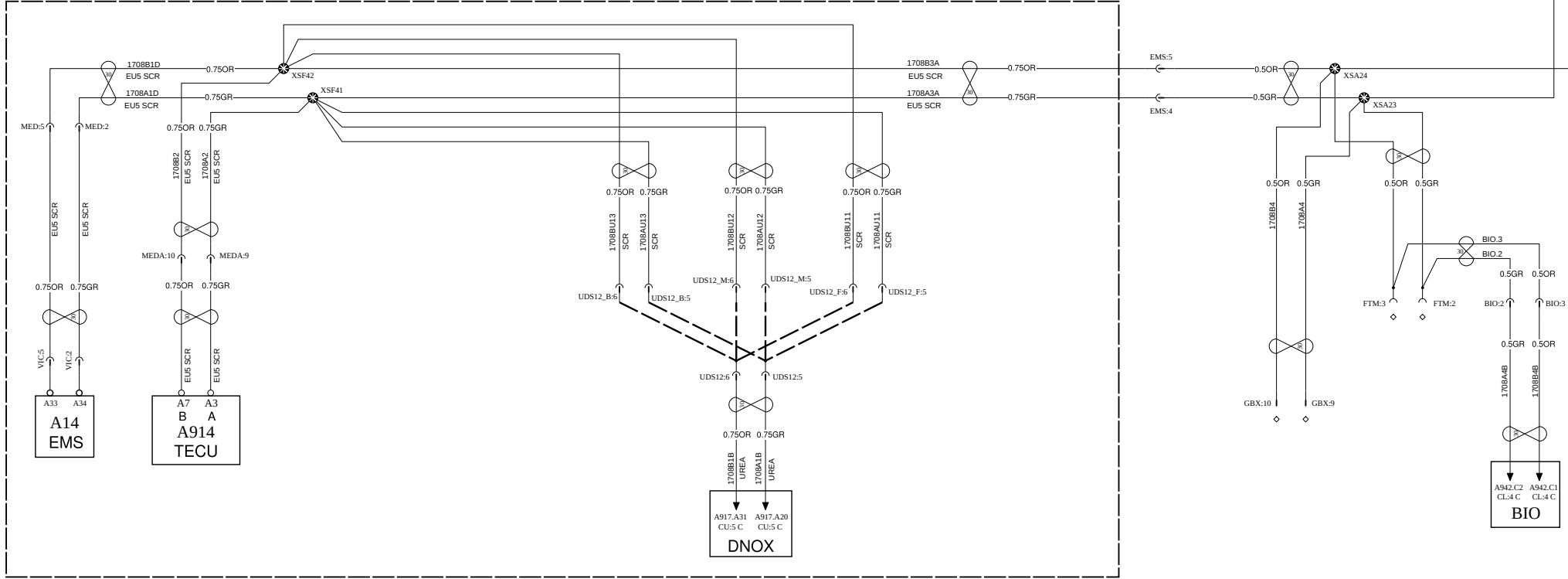


CAN SAE1587

WIRING DIAGRAM XD



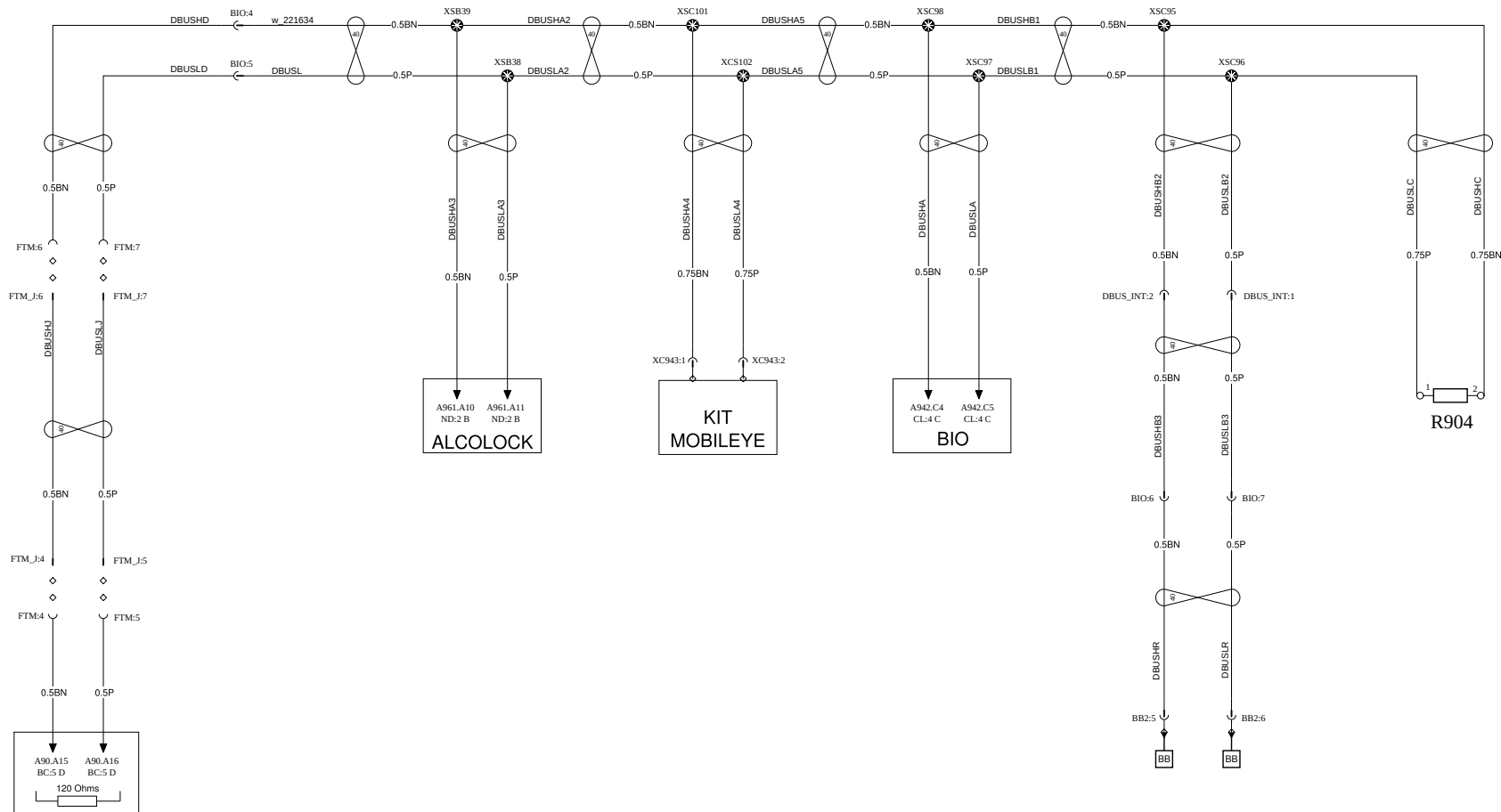
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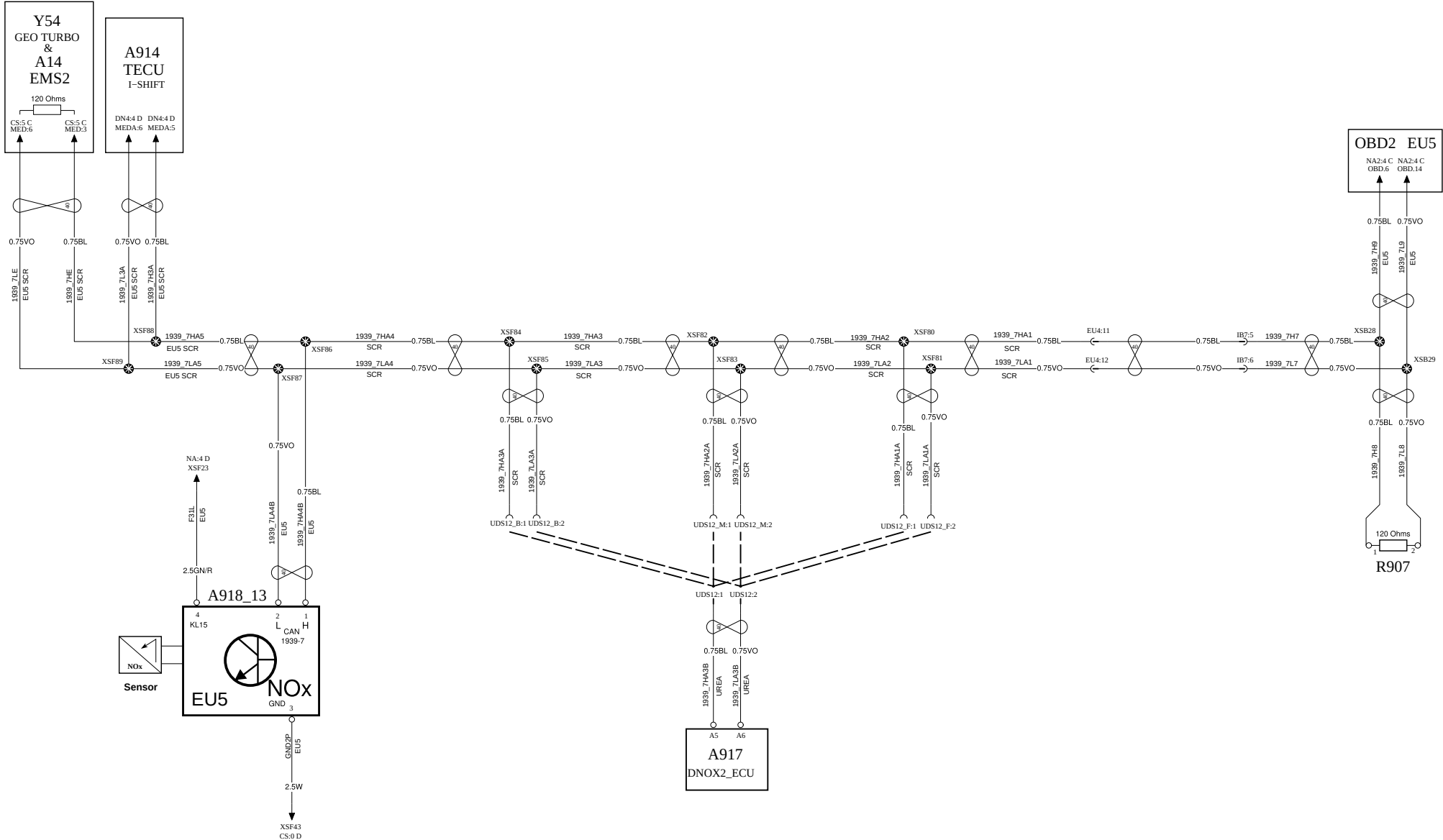


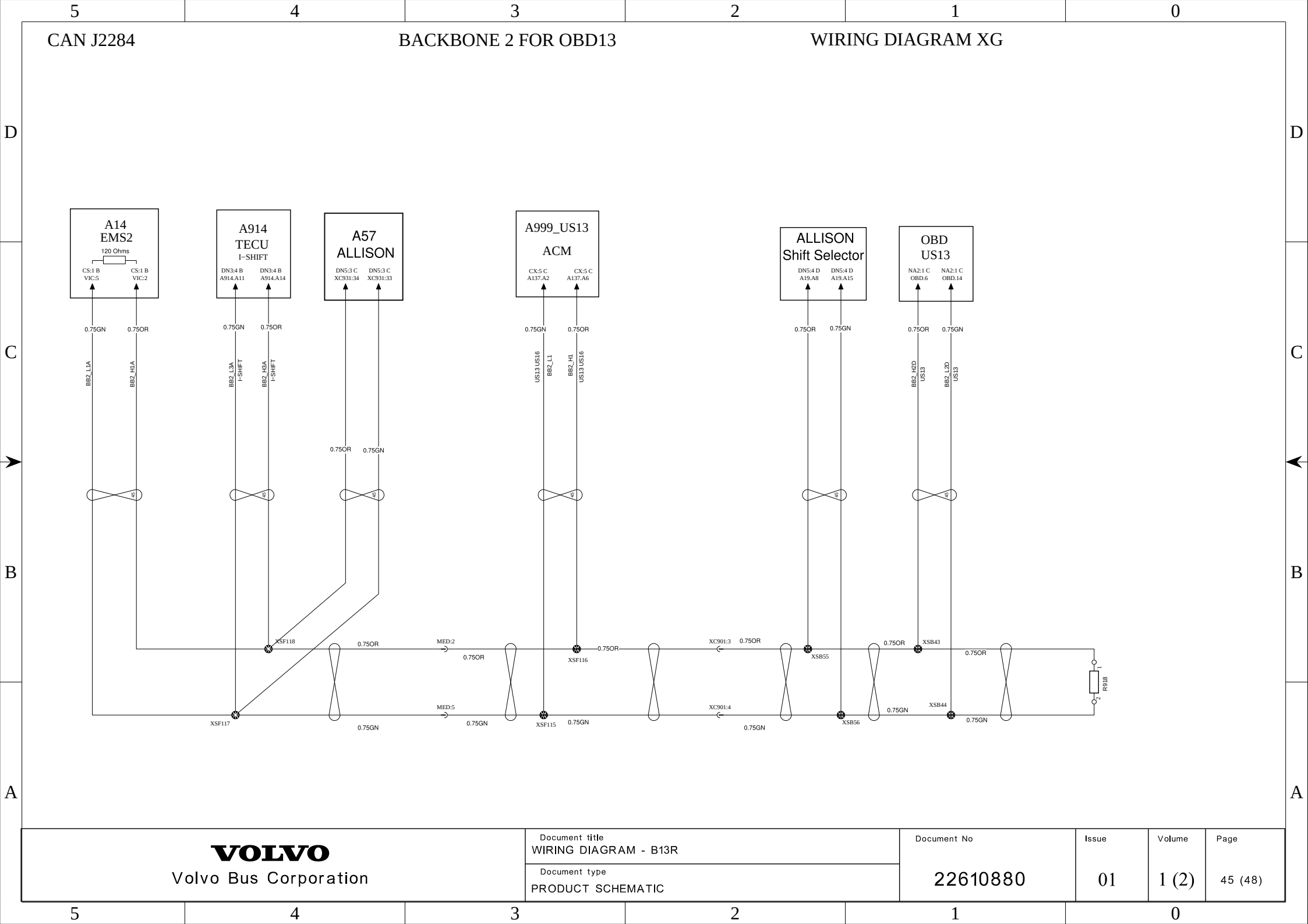
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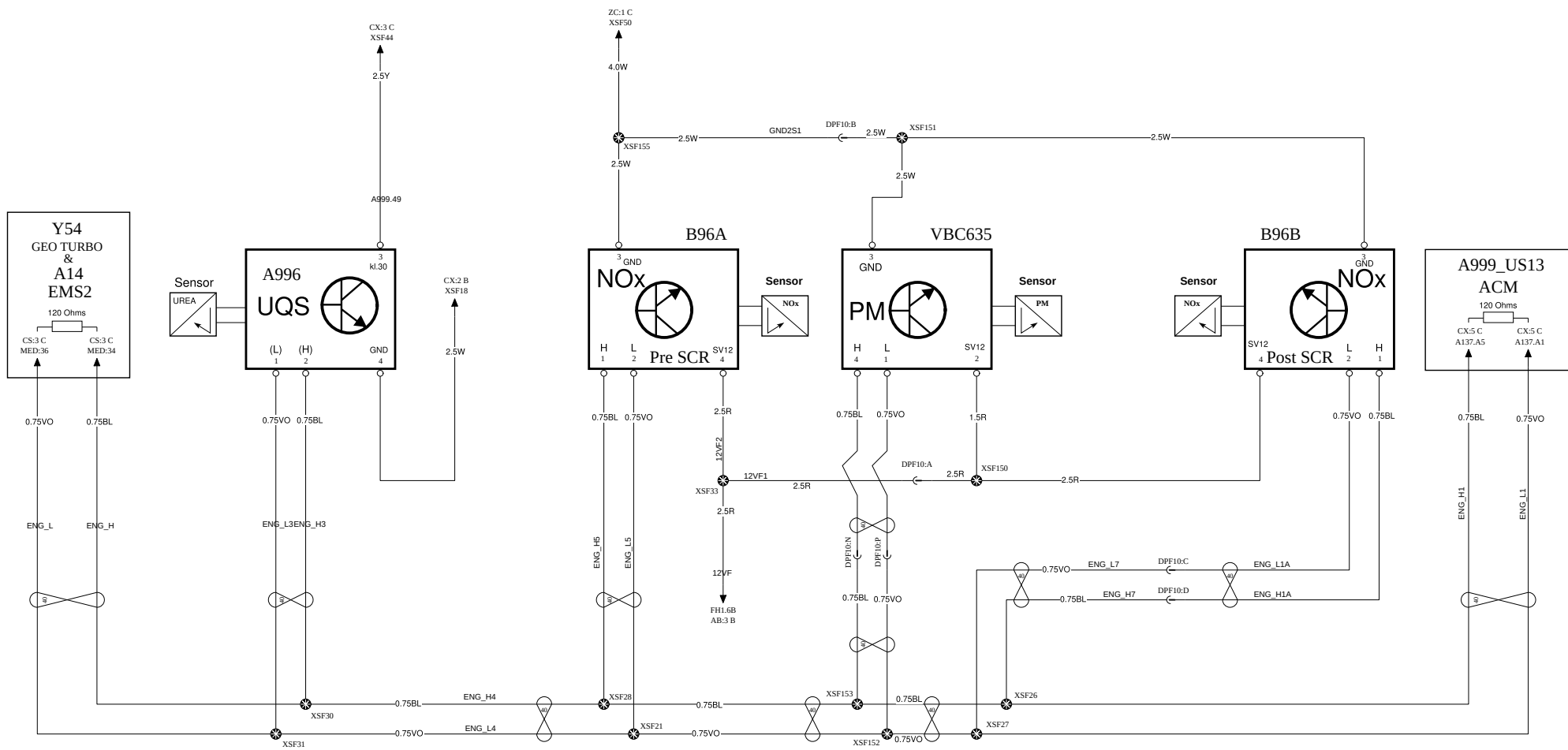
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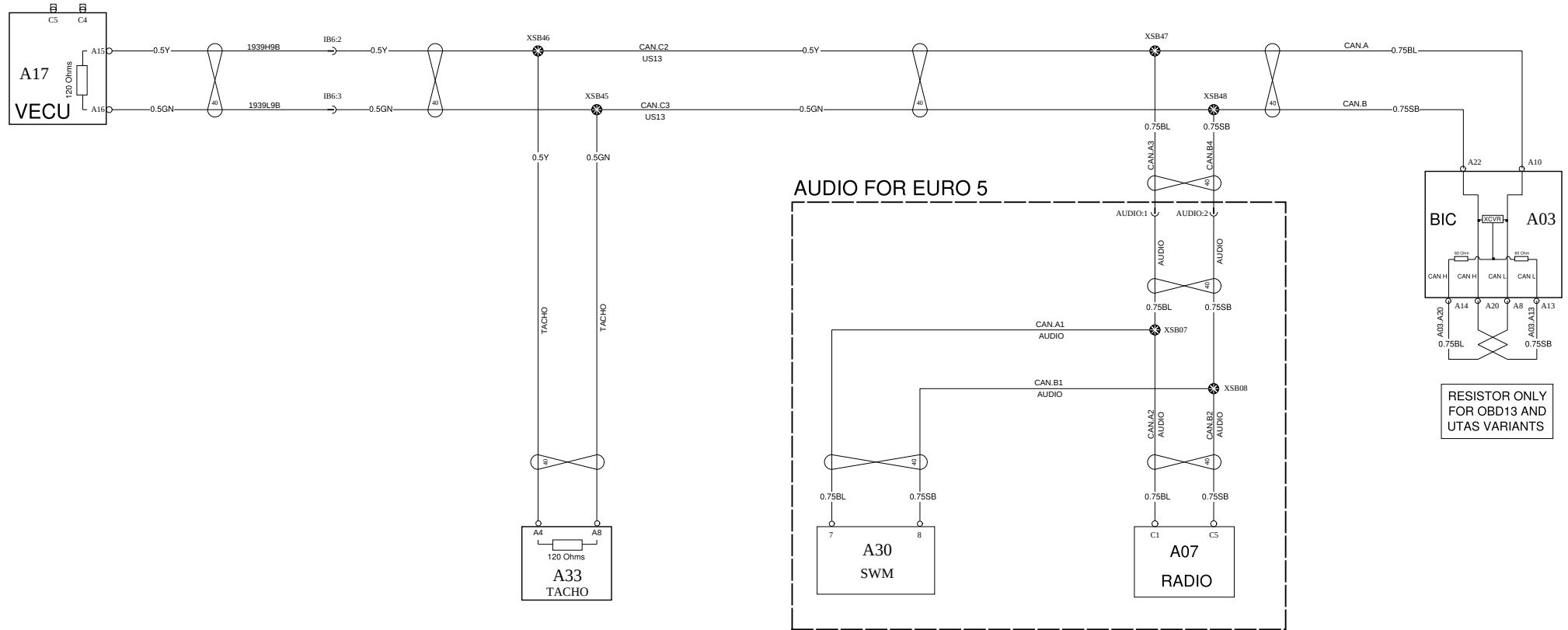
WIRING DIAGRAM XE





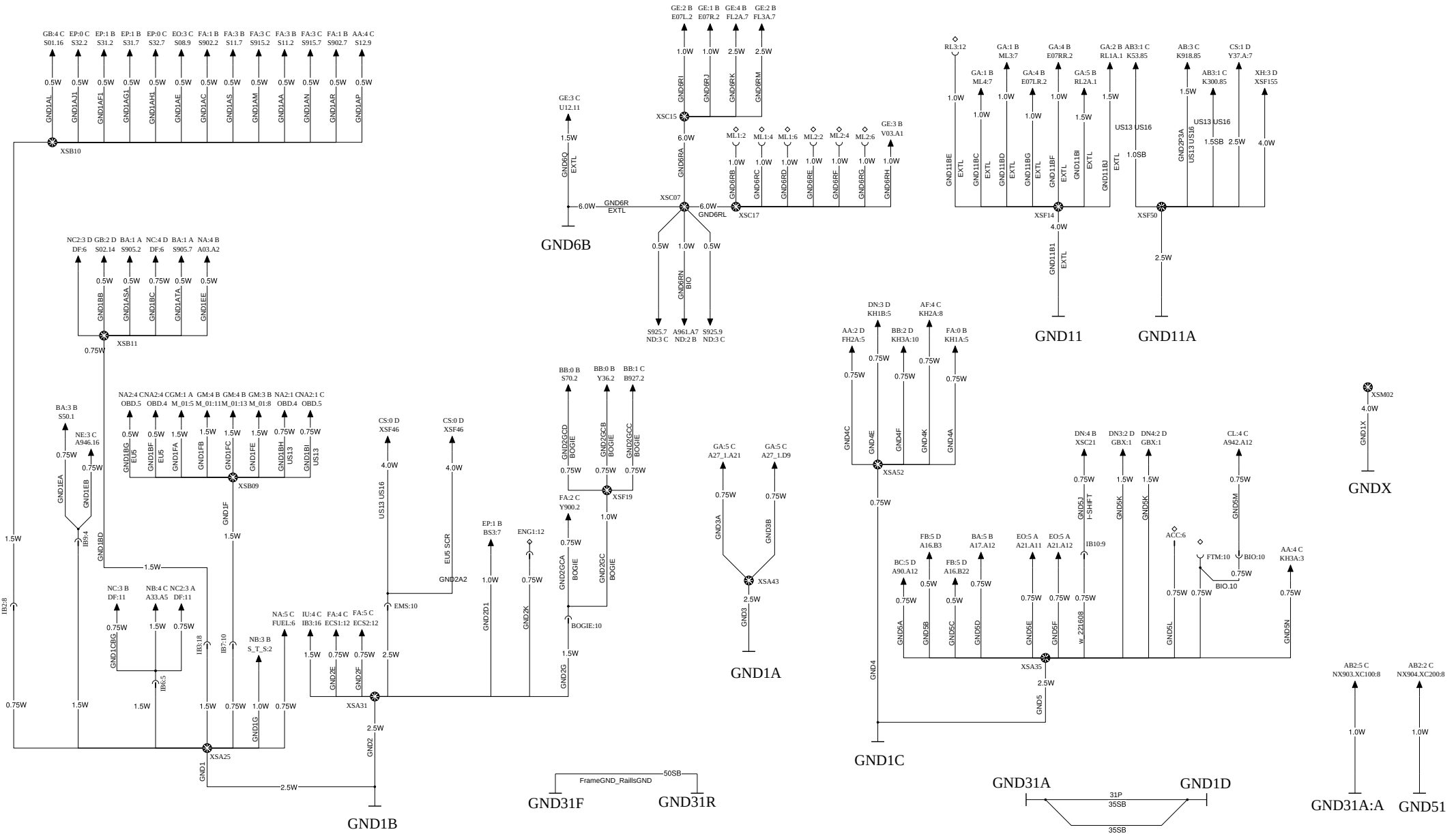






## GROUND

## WIRING DIAGRAM ZC



**VOLVO**  
Volvo Bus Corporation

|                                         |                             |                 |                     |                     |
|-----------------------------------------|-----------------------------|-----------------|---------------------|---------------------|
| Document title<br>WIRING DIAGRAM - B13R | Document No<br><br>22610880 | Issue<br><br>01 | Volume<br><br>1 (2) | Page<br><br>48 (48) |
| Document type<br>PRODUCT SCHEMATIC      |                             |                 |                     |                     |



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| F14 (5A)   | BBM,5A                                    | BB 5 D  |
| F15 (15A)  | EECU,15A                                  | BA 4 D  |
| F16 (5A)   | VECU,5A                                   | BA 4 D  |
| F17 (5A)   | Switch feed, 5A                           | FA 1 D  |
| F18 (5A)   | Alternator, 5A                            | AF 1 D  |
| F19 (10A)  | Hymer, 10A                                | AF 4 D  |
| F20 (10A)  | EBS,10A                                   | EO 5 D  |
| F21 (15A)  | Wiper,Washer,15A                          | GM 2 D  |
| F23 (5A)   | ACC, FMS,5A                               | NE 3 D  |
| F24 (5A)   | BIC 2,5A                                  | NA 1 D  |
| F25 (15A)  | Washer motor, 15A                         | GM 4 D  |
| F26 (5A)   | ECS,5A                                    | FA 0 D  |
| F28 (10A)  | Retarder, 10A                             | DN 4 D  |
| F29 (5A)   | Body +DR, 5A                              | BB 3 D  |
| F31 (10A)  | Hydraulic oil, DNOx2, 10A                 | NA 5 D  |
| F32 (5A)   | Tachograph,5A                             | NB 4 D  |
| F33 (5A)   | BIC 2,5A                                  | NA 2 D  |
| F35 (25A)  | LCM ,25A                                  | GA 5 D  |
| F36 (25A)  | LCM,25A                                   | GA 4 D  |
| F37 (25A)  | LCM,25A                                   | GA 3 D  |
| F39 (25A)  | DNOx2, 25A                                | CU 5 D  |
| F40 (5A)   | Voltage guard, 5A                         | AA 1 D  |
| F41 (20A)  | Radio,20A                                 | IU 4 D  |
| F42 (5A)   | Maine Switch,5A                           | AA 5 D  |
| F44 (25A)  | LCM,25A                                   | GA 5 D  |
| F45 (25A)  | LCM,25A                                   | GA 4 D  |
| F46 (25A)  | LCM,25A                                   | GA 4 D  |
| F47 (5A)   | Side marker L, 5A                         | GA 1 D  |
| F48 (5A)   | Side marker R, 5A                         | GA 1 D  |
| F49 (5A)   | Fuel cut off valve, 5A                    | NA 5 D  |
| F51 (5A)   | Radio,5A                                  | IU 4 D  |
| F52 (10A)  | Luggage Light,10A                         | BB 2 D  |
| F53 (10A)  | Bogie Valve, Heater waterseperator, 5A    | BB 0 D  |
| F54 (5A)   | Engine/Luggage hatch,5A                   | GA 3 D  |
| F55 (10A)  | Engine brake valve, Preheat relay, Fan sp | BA 4 D  |
| F56 (10A)  | Engine brake, 10A                         | BA 4 D  |
| F57 (5A)   | Key switch,5A                             | AA 4 D  |
| F58 (5A)   | FTM, 5A                                   | CL 3 D  |
| F61 (10A)  | Light, luggageroom,10A                    | GA 3 D  |
| F62 (20A)  | Light sleeping compartment, 20A           | GA 3 D  |
| F63 (5A)   |                                           | CL 1 C  |
| F64 (10A)  | Load Indicator                            | CL 2 C  |
| F76 (80A)  | FUSE, 12V Equalizer                       | AB 4 D  |
| F77 (40A)  | FUSE, 24V Equalizer                       | AB 3 D  |
| F90A (30A) | FUSE - DNOX2RA                            | CU 1 B  |
| F90B (30A) | FUSE - DNOX2RB                            | CU 1 B  |
| F99 (15A)  | Fuse, Allison +30 power supply            | AB 2 D  |
| F206 (5A)  | External Pre-Heater, 5A                   | AB5 3 C |
| F907 (20A) | Fuse 12V I-shift                          | AB 2 B  |
| F915 (30A) | Fuse 12V EMS2                             | AB 2 B  |
| F955 (20A) | Fuse 12V Act. EMS2                        | AB 2 B  |
| F956 (10A) | Fuse 12V Fuel Pump                        | AB 2 B  |
| F957 (20A) | Fuse 12V Cool Fan                         | AB 3 B  |
| F958 (10A) | FUSE 12V Allison, GBX and OBD connector   | AB 3 B  |

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|-------------|-------------------------------------------|---------|
| 30UA:1      | Terminal - Power for heated hose          | CU 1 B  |
| 30UB:1      | Terminal - Power for heated hose          | CU 1 B  |
| A03         | Instrument cluster                        | NA 4 B  |
| A03         | Instrument cluster                        | XC 5 C  |
| A03         | Instrument cluster                        | XJ 0 C  |
| A03_1       | Instrument cluster                        | XD 5 C  |
| A07         | Radio                                     | XJ 2 B  |
| A07_1       | Radio                                     | IU 4 B  |
| A14         | Control unit EMS                          | XC 3 A  |
| A14         | Control unit EMS                          | XD 5 B  |
| A16         | ECS                                       | FA 5 B  |
| A16         | ECS                                       | FB 5 D  |
| A16         | ECS                                       | XC 1 C  |
| A16         | ECS                                       | XD 1 C  |
| A17         | VECU                                      | BA 5 B  |
| A17         | VECU                                      | XC 2 C  |
| A17         | VECU                                      | XD 2 C  |
| A17         | VECU                                      | XJ 5 D  |
| A19         | Control unit,GECU(gear selector ECU)      | DN5 4 D |
| A19_1       | Control unit,GECU(gear selector ECU)      | DN2 5 C |
| A19_2       | Control unit,GECU(gear selector ECU)      | DN2 2 C |
| A21         | EBS                                       | EO 5 A  |
| A21         | EBS                                       | EP 5 D  |
| A21         | EBS                                       | XC 1 C  |
| A21         | EBS                                       | XD 1 C  |
| A27_1       | Control unite,LCM(Light Control Module)   | GA 5 C  |
| A27_1       | Control unite,LCM(Light Control Module)   | GB 4 C  |
| A27_1       | Control unite,LCM(Light Control Module)   | GE 2 D  |
| A27_1       | Control unite,LCM(Light Control Module)   | XC 0 C  |
| A27_1       | Control unite,LCM(Light Control Module)   | XD 1 D  |
| A30         | Control unite,SWM(Steering Wheel Module)  | IU 1 D  |
| A30         | Control unite,SWM(Steering Wheel Module)  | XJ 2 B  |
| A33         | TACHO                                     | NB 4 C  |
| A33         | TACHO                                     | XJ 3 B  |
| A41         | Body I/O Module 41                        | CX 1 B  |
| A41         | Body I/O Module 41                        | DN4 3 B |
| A42         | Component group transmission.Contains B26 | DN3 2 B |
| A42         | Component group transmission.Contains B26 | DN4 2 B |
| A57         | Control unit, Body                        | DN5 4 C |
| A58         | Control unit, Body                        | DN5 3 B |
| A58E        | Engine speed sensor                       | DN5 4 A |
| A58O        | Output speed sensor                       | DN5 4 A |
| A58T        | Turbine speed sensor                      | DN5 4 A |
| A80         | Air Dryer                                 | BA 2 A  |
| A90         | BBM                                       | AA 5 A  |
| A90         | BBM                                       | BB 5 A  |
| A90         | BBM                                       | BC 5 D  |
| A90         | BBM                                       | XC 2 C  |
| A90         | BBM                                       | XD 2 C  |
| A124        | Starter motor with relay                  | AF 3 B  |
| A124.30B    | Ring Terminal Starter Motor               | AF 3 B  |
| A124 ISTART | Ring terminal Starter Motor               | AF 3 B  |
| A125        | Control unit, TGW                         | NC 4 B  |
| A125        | Control unit, TGW                         | XD 3 C  |
| A125_       | TGW II Control Unit                       | NC2 3 B |
| A133        | Handset                                   | ND 3 B  |
| A137        | DEF CONTROL MODULE                        | CX 5 C  |
| A914        | I-shift unit(TECU)                        | DN3 4 B |
| A914        | I-shift unit(TECU)                        | DN4 4 C |
| A914        | I-shift unit(TECU)                        | XC 2 A  |
| A914        | I-shift unit(TECU)                        | XD 5 B  |
| A917        | DNOX2_ECU                                 | CU 5 C  |
| A917        | DNOX2_ECU                                 | XF 2 A  |
| A918_13     | NOx-sensor                                | XF 4 B  |
| A926        | GearShift_ECU                             | DN 4 C  |
| A926        | GearShift_ECU                             | XC 4 C  |
| A926        | GearShift_ECU                             | XD 3 C  |
| A942        | BIO - Bus I/O                             | CL 4 C  |
| A946        | FMS GATEWAY                               | NE 3 C  |
| A961        | Control unit, Alcolock Interlock          | ND 2 B  |
| A996        | UQS                                       | XH 4 C  |
| A998        | DEF Pump                                  | CX 4 D  |
| B03         | Sensor,footbrake valve                    | EO 4 B  |
| B06         | Wet tank press                            | BA 0 C  |
| B07         | Sensor,fuel level front axle              | NA 4 A  |
| B12         | Sensor,tachograph/speedometer             | NB 4 A  |
| B13         | Sensor,wheel speed, lhs. 1:st front axle  | EO 2 D  |

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| B14       | Sensor,wheel speed, rhs. 1:st front axle  | EO 2 D  |
| B15       | Sensor,Wheel speed, lhs. 1:st driven rear | EO 1 D  |
| B16       | Sensor,Wheel speed, rhs. 1:st driven rear | EO 1 D  |
| B22       | Sensor, outdoor temperature               | NA 3 A  |
| B25       | Sensor,accelerator pedal                  | BA 2 C  |
| B29       | sensor chassis level rear axle LHS        | FB 2 B  |
| B30       | sensor chassis level rear axle RHS        | FB 2 B  |
| B32_10    | Sensor Eng. cooling fan Speed             | CS 3 D  |
| B32_13    | Sensor Eng. cooling fan speed             | CS 2 D  |
| B39       | Sensor,air filter press/Temp.             | CS 3 B  |
| B40       | Sensor,brake lining wear indicator,lhs. 1 | EO 3 D  |
| B41       | Sensor,brake lining wear indicator,rhs. 1 | EO 3 D  |
| B42       | Sensor,brake lining wear indicator,lhs. 1 | EO 2 D  |
| B43       | Sensor,brake lining wear indicator,rhs.1: | EO 2 D  |
| B49       | Sensor,steering angle                     | EP 2 B  |
| B50       | Sensor,yaw-rate                           | EP 2 B  |
| B57       | Sensor,air pressure, suspension bellows,1 | FB 4 C  |
| B58       | Sensor,air perssure,suspension bellow,rhs | FB 4 C  |
| B59       | Sensor, indoor temperature                | NA 3 A  |
| B69C      | Sensor,coolant temperature, retarder      | CX 0 B  |
| B69C      | Sensor,coolant temperature, retarder      | DN4 4 B |
| B96A      | Pre-Sensor, NOx                           | XH 3 C  |
| B96B      | Pos Sensor, NOx                           | XH 0 C  |
| B904      | hydr oil level sens                       | NA 4 C  |
| B906      | Sensor,Brake Press ( 6*2 )                | BC 4 C  |
| B910      | sensor air press. ECS port 21             | FB 5 C  |
| B914      | sensor chassis level front axle LHS       | FB 2 B  |
| B915      | sensor chassis level front axle RHS       | FB 1 B  |
| B918      | Hydraulic oil level sensor_2              | NA 4 C  |
| B920      | Sensor,fuel level 2 front axle            | NA 4 A  |
| B923      | Sensor temp/level adblue tank SCRT_DNOX2  | CU 2 B  |
| B927      | Sensor Hydr.oil press                     | BB 1 C  |
| B930      | Sensor temp upstream scrt_DNOX2           | CU 2 D  |
| B940      | Sensor brake lining wear indicator,A/B R  | EP 4 B  |
| B941      | Sensor brake lining wear indicator,A/B L  | EP 4 B  |
| B942      | sensor wheel speed A/B R                  | EP 3 B  |
| B943      | sensor wheel speed A/B L                  | EP 3 B  |
| B973      | Fire Sensor, 150°C                        | BB 4 C  |
| B974      | Fire sensor                               | BB 4 C  |
| B975      | Fire sensor                               | BB 4 B  |
| B977      | Sensor, brake pressure                    | NA 5 A  |
| B978      | Sensor, brake pressure                    | NA 4 A  |
| B979      | Parking brake pressure                    | BB 3 B  |
| B980      | Auxilliary pressure                       | BB 3 B  |
| B985      | Fire sensor 4, D13                        | BB 4 D  |
| B986      | Fire sensor 5, D13                        | BB 4 C  |
| B991_10   | temp. DPF                                 | CX 2 C  |
| B992_10   | temp. DPF                                 | CX 1 C  |
| B993_10   | temp. DPF                                 | CX 1 C  |
| B995_13   | SENSOR, DPF PRESSURE                      | CX 2 D  |
| BB1       | BodyBuilder Interface Connector           | AA 5 B  |
| BB1       | BodyBuilder Interface Connector           | AB2 3 B |
| BB1       | BodyBuilder Interface Connector           | AB4 2 C |
| BB1       | BodyBuilder Interface Connector           | AF 5 D  |
| BB1       | BodyBuilder Interface Connector           | BA 5 B  |
| BB1       | BodyBuilder Interface Connector           | BB 2 B  |
| BB1       | BodyBuilder Interface Connector           | BC 1 C  |
| BB1       | BodyBuilder Interface Connector           | CL 4 C  |
| BB1       | BodyBuilder Interface Connector           | EP 2 D  |
| BB1       | BodyBuilder Interface Connector           | FA 4 D  |
| BB1       | BodyBuilder Interface Connector           | FB 3 D  |
| BB1       | BodyBuilder Interface Connector           | GA 3 C  |
| BB1       | BodyBuilder Interface Connector           | GB 1 C  |
| BB1       | BodyBuilder Interface Connector           | IS 2 B  |
| BB1       | BodyBuilder Interface Connector           | IU 4 A  |
| BB1       | BodyBuilder Interface Connector           | NA 3 A  |
| BB1       | BodyBuilder Interface Connector           | NB 3 D  |
| BB1       | BodyBuilder Interface Connector           | ND 3 D  |
| BB1       | BodyBuilder Interface Connector           | XD 3 C  |
| BB1       | BodyBuilder Interface Connector           | XE 1 A  |
| D1        | Diod                                      | BA 3 A  |
| D2        | Diod                                      | AA 2 B  |
| D3        | Diode - Wiper motor                       | GM 1 B  |
| E07L      | Fog light left                            | GE 2 B  |
| E07LR     | Fog light left rear                       | GA 4 B  |
| E07R      | Fog light right                           | GE 1 B  |
| E07RR     | Fog light right rear                      | GA 4 B  |

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| E09         | Lamp,brake light                         | GA 4 B  |
| E11LA       | Side marker light left                   | GA 1 B  |
| E11LF       | Side marker light left front             | GA 2 B  |
| E11LR       | Side marker light left rear              | GA 1 B  |
| E11ML       | Side marker light middle left            | GA 1 B  |
| E11MR       | Side marker light middle right           | GA 0 B  |
| E11RA       | Side marker light right                  | GA 0 B  |
| E11RF       | Side marker light right front            | GA 1 B  |
| E11RR       | Side marker light right rear             | GA 1 B  |
| E11TL       | Position Light,Left(Trailer)             | GA 2 B  |
| E11TR       | Position Light,Right(Trailer)            | GA 1 B  |
| E13L        | Dir. ind. left                           | GA 4 B  |
| E13LA       | Dir.indicator left                       | GA 4 B  |
| E13R        | Dir. ind. right                          | GA 3 B  |
| E13RB       | Dir.indicator right                      | GA 3 B  |
| FH1         | FuseHolder 12V                           | AB 3 B  |
| FL2A        | Front light, L                           | GE 4 B  |
| FL3A        | Front light, R                           | GE 2 B  |
| G01         | Battery                                  | AB2 4 B |
| G01.B       | Battery                                  | AC 3 B  |
| G01B        | Battery                                  | AB2 4 B |
| G01B        | Battery                                  | AB3 3 B |
| G01B.A      | Battery                                  | AC 3 B  |
| G01B1       | I-Start Starter Battery                  | AB3 3 B |
| G01C        | I-Start Consumer Battery                 | AB4 3 B |
| G01C1       | I-Start Consumer Battery                 | AB4 3 B |
| G02         | Alternator 1                             | AF 2 B  |
| G03         | Alternator 2                             | AF 2 B  |
| G03_I_START | Ring Terminal Alternator 2               | AF 2 B  |
| G08A        | Battery                                  | AC 3 B  |
| G08A.A      | Ring Terminal starter battery/DC-Convert | AC 3 C  |
| G08B        | Battery                                  | AC 3 B  |
| G08B.B      | Battery B-                               | AC 3 A  |
| G901        | Battery Equalizer                        | AB 3 D  |
| GND         | GDN - Adapter AHI                        | BA 2 A  |
| GND1A       | GND - Electrical Center                  | ZC 2 B  |
| GND1B       | GND - Electrical Center                  | ZC 4 A  |
| GND1C       | GND4/GND5 - Electrical Center            | ZC 2 A  |
| GND1D       | GND - Batt_Box_NVPDUF                    | ZC 1 A  |
| GND1E       | GND - US13                               | CS 0 C  |
| GND1UA:1    | GND - DNOX2RA                            | CU 2 A  |
| GND1UB:1    | GND - DNOX2RB                            | CU 1 A  |
| GND2A       | GND - ALT_1                              | AF 2 A  |
| GND2B       | GND - ALT_2                              | AF 2 A  |
| GND6        | GND - Driver Location                    | GB 5 B  |
| GND6B       | GND6Q/GND6R - Driver Location            | ZC 3 C  |
| GND11       | GND - Rear Axle                          | ZC 1 C  |
| GND11A      | Ground                                   | ZC 1 C  |
| GND31A      | GND - Batt_Box_NVPDUF                    | ZC 1 A  |
| GND31A:A    | GND - Batt_Boxx_NVPDUF                   | ZC 0 A  |
| GND31A:B    | Ground                                   | AB 2 D  |
| GND31B      | GND - Battery                            | AB2 4 A |
| GND31B      | GND - Battery                            | AB3 3 A |
| GND31F      | GND - Frame                              | ZC 3 A  |
| GND31R      | GND - Raills                             | ZC 3 A  |
| GND40       | GND - STARTER_ENG                        | AF 3 A  |
| GND41       | GND - STARTER_ENG_US                     | AF 3 A  |
| GND51       | Ground                                   | ZC 0 A  |
| GND74       | GND - SCR                                | CU 1 A  |
| GND75       | GND - Equalizer                          | AB 2 D  |
| GND900      | GND - Starter Batteries                  | AB4 3 A |
| GND900      | GND - Starter Batteries                  | AC 3 A  |
| GND_PH      | GND - Pre heater                         | AB5 2 B |
| GNDX        | GND - Xenon Lights                       | ZC 0 B  |
| H01         | Air,Operated                             | IS 3 C  |
| H02         | Diaphragm horn                           | IS 2 C  |
| K2          | Over Load Indicator                      | CL 2 C  |
| K02         | Relay - Day Light                        | GB 5 C  |
| K3          | ECS                                      | FA 0 B  |
| K4          | I-Shift/Voith                            | DN 3 D  |
| K7          | Start engine                             | AF 4 C  |
| K8          | VECU/EMS                                 | BA 5 C  |
| K9          | Wiper/Washer                             | GM 2 C  |
| K11         | Prevent start engine                     | AA 2 C  |
| K12         | Luggage Light                            | BB 2 C  |
| K13         | Emergency switch relay                   | AA 4 D  |
| K14         | Bogie                                    | BB 0 C  |

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| K17       | Ignition +15                              | AA 2 D  |
| K35       | relay disconn headlight wash              | GM 4 C  |
| K48       | Relay Engine Preheating                   | AB5 3 C |
| K53       | Relay                                     | AB3 1 C |
| K300      | I-Start Main Relay                        | AB3 1 C |
| K400      | I-Start +30 Relay (Body)                  | AB4 3 D |
| K902      | Relay heated hose pressure line           | CU 3 B  |
| K903      | Relay heated hose backflow to pump line   | CU 3 B  |
| K908      | Relay heated hose suction line            | CU 4 B  |
| K909      | Relay heated hose backflow to tank line   | CU 2 B  |
| K911      | Relay, DRL Light                          | GE 3 C  |
| K918      | Relay 12V EMS2                            | AB 3 C  |
| K919      | Relay 12V IVS                             | AB 2 C  |
| M01       | Motor, windscreen wiper                   | GM 1 B  |
| M02       | windscreen washer motor                   | GM 3 B  |
| M03       | headlights washer motor                   | GM 4 B  |
| NX903     | I-Start Front Fuse Box                    | AB2 5 C |
| NX903     | I-Start Front Fuse Box                    | AB3 4 D |
| NX904     | I-Start Rear Fuse BOX                     | AB2 2 C |
| OB        | ON BOARD DIAGNOSTIC CONNECTOR             | NA2 4 C |
| R01       | Heater, engine preheat                    | AB5 2 C |
| R02       | Heater, rear view mirror                  | GB 5 B  |
| R08       | Termination resistor,CAN-bus              | XC 4 D  |
| R904      | Resistor DBUS                             | XE 1 B  |
| R905      | Heated_Hose_Suction_Line                  | CU 4 B  |
| R905_US   | suction_line                              | CX 3 A  |
| R906      | Heated_Hose_Pressure_Line                 | CU 3 B  |
| R906_US   | Pressure_line                             | CX 3 A  |
| R907      | 1939-7 resistor                           | XF 0 B  |
| R908      | Heated_Hose_Backflow_to_tank              | CU 2 B  |
| R909      | Heated_Filter                             | CU 5 B  |
| R910      | Heated_Hose_Backflow_to_pump              | CU 3 B  |
| R918      | Termination resistor 120ohm               | XG 0 A  |
| RL1A      | Rear light, R                             | GA 2 B  |
| RL2A      | Rear light, L                             | GA 5 B  |
| S01       | Switch,main lighting,selector type        | GB 4 C  |
| S02       | Stalk switch LHS                          | BA 3 D  |
| S02       | Stalk switch LHS                          | GB 2 D  |
| S06       | Stalk switch , windscreen wiper, selector | GM 1 D  |
| S06       | Stalk switch , windscreen wiper, selector | NA 2 B  |
| S08       | Switch,differential gear lock,rear wheels | EO 3 C  |
| S11       | switch bogie lift                         | FA 3 B  |
| S12       | Main switch                               | AA 4 C  |
| S14A      | Switch, push button, Air horn             | IS 3 A  |
| S14B      | Switch, push button, Air horn             | IS 2 A  |
| S15A      | Switch,Starter Key                        | AA 3 D  |
| S15B      | Switch,Starter Feed                       | AA 4 B  |
| S16       | Switch, push button, El. horn             | IS 2 A  |
| S20       | Dynafleet Switch                          | NC2 3 C |
| S24       | stalk switch retarder                     | BA 1 D  |
| S31       | Switch, TCS ( Traction Control System )   | EP 1 B  |
| S32       | Brake hold                                | EP 0 C  |
| S34       | Switch unit, steering wheel push buttons  | IU 2 D  |
| S41       | Switch, battery main switch control       | AB2 4 B |
| S45       | Position switch,differential gear lock in | EP 1 C  |
| S50       | Switch, pressure parking brake indicator, | BA 3 B  |
| S58       | clutch switch                             | BA 2 C  |
| S68       | Sensor coolant level                      | CS 4 D  |
| S68_13    | Sensor Coolant level                      | CS 4 D  |
| S70       | Switch Hydr.oil ,Flow sensor              | BB 0 B  |
| S77       | Assitantnce call                          | NC 3 C  |
| S90       | Battery Switch                            | AB3 3 C |
| S901      | eng_stop_rear                             | AA 1 B  |
| S902      | switch leveling                           | FA 1 B  |
| S904      | Switch,emergency cut-out                  | AA 4 D  |
| S905      | Switch,Retarder                           | BA 1 A  |
| S907      | eng_start_rear                            | AA 2 B  |
| S908      | eng_start_enalble_rear                    | AA 1 B  |
| S915      | Switch,kneeling                           | FA 3 C  |
| S925      | Switch, Alcolock                          | ND 3 C  |
| T900      | DC converter temperature sensor           | AC 3 B  |
| U03       | Modulator,EBS,rear axle(drive axle)       | EO 2 C  |
| U04       | Modulator EBS, bogie                      | EP 4 B  |
| U06       | Voltage converter                         | IU 4 C  |
| U08       | Modulator,EBS,front                       | EO 3 C  |
| U12       | Voltage converter, Bi-xenon               | GE 3 C  |
| U25       | Voltage converter, DC/DC                  | AC 2 C  |

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| V03       | Diod, Light                               | GE 3 B  |
| V04       | Diod, Light                               | GE 3 B  |
| VBC635    | Sensor, PM                                | XH 2 C  |
| X701      | I-Start Media Bracket (Chassis)           | AB3 3 B |
| X801      | I-Start Media Bracket (Body)              | AB4 3 C |
| X901      | Connector Battery +                       | AB2 1 A |
| X905      | VPDU Rear without preheat relay           | AB4 2 D |
| X910      | Junction Box for Chassis                  | AB2 4 B |
| Y02       | Solenoid valve,Differential lock,rear whe | EP 1 C  |
| Y25       | Solenoid valve unit, ECS, Rear axle       | FA 5 C  |
| Y36       | Solenid valve,Steerable axle,Bogie        | BB 0 B  |
| Y37       | Solenoid valve AVU, engine brake / EPG (E | CS 1 D  |
| Y40       | Solenoid valve unit, ECS, Front axle      | FA 4 B  |
| Y72       | Valve, Horn                               | IS 3 C  |
| Y900      | solenoid valve unit, ECS, Bogie axle      | FA 2 C  |
| Y901      | Fuel cut off valve front axle             | NA 5 C  |
| Y911      | sol valve inj SCRT DNOX2                  | CU 3 D  |
| Y911_10   | sol valve DEF inj.                        | CX 2 A  |
| Y912      | sol valve adblue tank heating SCRT DNOX2  | CU 4 B  |
| Y912_US   | Sol Valve Heating Urea Tank               | CX 3 B  |
| Y914      | Pressure control valve(PCU/R)             | EP 5 C  |
| Y915      | Pressure controll valve (PCU/R)           | EP 5 C  |
| Y939      | Solenoid Valve AHI                        | BA 2 A  |

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| IB3:1  | BA 1 C  | IB8:3     | EO 4 B  | KH3B:2  | BB 0 C  | ML2:2   | ZC 2 D  | S_T_T:3    | NB 3 B  |
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**VOLVO**

Volvo Bus Corporation

Document title

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Document type

PRODUCT SCHEMATICS

Document No

22610880

Issue

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| A07_1    | Radio                                     | IU 4 B  |
| A14      | Control unit EMS                          | XC 3 A  |
| A14      | Control unit EMS                          | XD 5 B  |
| A14.B7   | EMS D13                                   | AB5 2 C |
| A14.B29  | EMS D13                                   | AF 3 B  |
| A16      | ECS                                       | FA 5 B  |
| A16      | ECS                                       | FB 5 D  |
| A16      | ECS                                       | XC 1 C  |
| A16      | ECS                                       | XD 1 C  |
| A17      | VECU                                      | BA 5 B  |
| A17      | VECU                                      | XC 2 C  |
| A17      | VECU                                      | XD 2 C  |
| A17      | VECU                                      | XJ 5 D  |
| A19      | Control unit,GECU(gear selector ECU)      | DN5 4 D |
| A19:1    |                                           | DN 4 B  |
| A19:2    |                                           | DN 4 B  |
| A19:3    |                                           | DN 4 B  |
| A19:4    |                                           | DN 3 B  |
| A19:5    |                                           | DN 3 B  |
| A19:6    |                                           | DN 3 B  |
| A19:11   |                                           | DN 3 B  |
| A19:12   |                                           | DN 3 B  |
| A19:15   |                                           | DN 2 B  |
| A19:16   |                                           | DN 2 B  |
| A19_1    | Control unit,GECU(gear selector ECU)      | DN2 5 C |
| A19_2    | Control unit,GECU(gear selector ECU)      | DN2 2 C |
| A19_:1   |                                           | DN2 2 C |
| A19_:2   |                                           | DN2 2 C |
| A19_:3   |                                           | DN2 1 C |
| A19_:4   |                                           | DN2 1 C |
| A19_:5   |                                           | DN2 1 C |
| A19_:6   |                                           | DN2 1 C |
| A19_:7   |                                           | DN2 1 C |
| A19_:8   |                                           | DN2 1 C |
| A19_:9   |                                           | DN2 1 C |
| A19_:10  |                                           | DN2 1 C |
| A19_:11  |                                           | DN2 0 C |
| A19_:12  |                                           | DN2 0 C |
| A21      | EBS                                       | EO 5 A  |
| A21      | EBS                                       | EP 5 D  |
| A21      | EBS                                       | XC 1 C  |
| A21      | EBS                                       | XD 1 C  |
| A27_1    | Control unite,LCM(Light Control Module)   | GA 5 C  |
| A27_1    | Control unite,LCM(Light Control Module)   | GB 4 C  |
| A27_1    | Control unite,LCM(Light Control Module)   | GE 2 D  |
| A27_1    | Control unite,LCM(Light Control Module)   | XC 0 C  |
| A27_1    | Control unite,LCM(Light Control Module)   | XD 1 D  |
| A30      | Control unite,SWM(Steering Wheel Module)  | IU 1 D  |
| A30      | Control unite,SWM(Steering Wheel Module)  | XJ 2 B  |
| A33      | TACHO                                     | NB 4 C  |
| A33      | TACHO                                     | XJ 3 B  |
| A41      | Body I/O Module 41                        | CX 1 B  |
| A41      | Body I/O Module 41                        | DN4 3 B |
| A42      | Component group transmission.Contains B26 | DN3 2 B |
| A42      | Component group transmission.Contains B26 | DN4 2 B |
| A57      | Control unit, Body                        | DN5 4 C |
| A58      | Control unit, Body                        | DN5 3 B |
| A58E     | Engine speed sensor                       | DN5 4 A |
| A58O     | Output speed sensor                       | DN5 4 A |
| A58T     | Turbine speed sensor                      | DN5 4 A |
| A80      | Air Dryer                                 | BA 2 A  |
| A80.BY:1 |                                           | BA 2 B  |
| A80.BY:3 |                                           | BA 2 B  |
| A80.BY:4 |                                           | BA 1 A  |
| A90      | BBM                                       | AA 5 A  |
| A90      | BBM                                       | BB 5 A  |
| A90      | BBM                                       | BC 5 D  |

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| A90         | BBM                                       | XC 2 C  |
| A90         | BBM                                       | XD 2 C  |
| A124        | Starter motor with relay                  | AF 3 B  |
| A124.30B    | Ring Terminal Starter Motor               | AF 3 B  |
| A124_ISTART | Ring terminal Starter Motor               | AF 3 B  |
| A125        | Control unit, TGW                         | NC 4 B  |
| A125        | Control unit, TGW                         | XD 3 C  |
| A125        | TGW II Control Unit                       | NC2 3 B |
| A133        | Handset                                   | ND 3 B  |
| A137        | DEF CONTROL MODULE                        | CX 5 C  |
| A914        | I-shift unit(TECU)                        | DN3 4 B |
| A914        | I-shift unit(TECU)                        | DN4 4 C |
| A914        | I-shift unit(TECU)                        | XC 2 A  |
| A914        | I-shift unit(TECU)                        | XD 5 B  |
| A917        | DNOX2 ECU                                 | CU 5 C  |
| A917        | DNOX2 ECU                                 | XF 2 A  |
| A918_13     | NOx-sensor                                | XF 4 B  |
| A926        | GearShift ECU                             | DN 4 C  |
| A926        | GearShift ECU                             | XC 4 C  |
| A926        | GearShift ECU                             | XD 3 C  |
| A942        | BIO - Bus I/O                             | CL 4 C  |
| A946        | FMS GATEWAY                               | NE 3 C  |
| A946_6      |                                           | NE 2 C  |
| A946_7      |                                           | NE 2 C  |
| A946_13     |                                           | NE 2 B  |
| A946_14     |                                           | NE 2 B  |
| A961        | Control unit, Alcolock Interlock          | ND 2 B  |
| A996        | UQS                                       | XH 4 C  |
| A998        | DEF Pump                                  | CX 4 D  |
| ACC:1       |                                           | NE 3 C  |
| ACC:2       |                                           | XC 3 C  |
| ACC:3       |                                           | XC 3 C  |
| ACC:4       |                                           | XD 2 D  |
| ACC:5       |                                           | XD 2 D  |
| ACC:6       |                                           | ZC 1 B  |
| ACC:7       |                                           | BA 3 B  |
| ACC:8       |                                           | BA 3 B  |
| ACC:9       |                                           | NE 3 C  |
| ACM:1       |                                           | NB 5 D  |
| ACM:2       |                                           | AB2 4 D |
| ACM:2       | Connector ACM BBOX                        | AB3 3 D |
| ACM:3       |                                           | AC 2 D  |
| ARTIC:1     |                                           | FB 1 C  |
| ARTIC:2     |                                           | FB 1 C  |
| ARTIC:5     |                                           | BC 4 C  |
| ARTIC:6     |                                           | BC 4 C  |
| ARTIC:7     |                                           | BC 4 C  |
| ARTIC:8     |                                           | BC 3 C  |
| ARTIC:9     |                                           | BC 3 C  |
| ARTIC:10    |                                           | BC 4 C  |
| ARTIC:11    |                                           | BC 3 C  |
| ARTIC:12    |                                           | BC 3 C  |
| AUDIO:1     |                                           | XJ 1 C  |
| AUDIO:2     |                                           | XJ 1 C  |
| AUDIO:3     |                                           | IU 1 C  |
| B03         | Sensor,footbrake valve                    | EO 4 B  |
| B06         | Wet tank press                            | BA 0 C  |
| B07         | Sensor,fuel level front axle              | NA 4 A  |
| B12         | Sensor,tachograph/speedometer             | NB 4 A  |
| B13         | Sensor,wheel speed, lhs. 1:st front axle  | EO 2 D  |
| B14         | Sensor,wheel speed, rhs. 1:st front axle  | EO 2 D  |
| B15         | Sensor,Wheel speed, lhs. 1:st driven rear | EO 1 D  |
| B16         | Sensor,Wheel speed, rhs. 1:st driven rear | EO 1 D  |
| B22         | Sensor, outdoor temperature               | NA 3 A  |
| B25         | Sensor,accelerator pedal                  | BA 2 C  |
| B29         | sensor chassis level rear axle LHS        | FB 2 B  |
| B30         | sensor chassis level rear axle RHS        | FB 2 B  |
| B32_10      | Sensor Eng. cooling fan Speed             | CS 3 D  |
| B32_13      | Sensor Eng. cooling fan speed             | CS 2 D  |
| B39         | Sensor,air filter press/Temp.             | CS 3 B  |
| B40         | Sensor,brake lining wear indicator,lhs. 1 | EO 3 D  |
| B41         | Sensor,brake lining wear indicator,rhs. 1 | EO 3 D  |
| B42         | Sensor,brake lining wear indicator,lhs. 1 | EO 2 D  |
| B43         | Sensor,brake lining wear indicator,rhs.1: | EO 2 D  |
| B49         | Sensor,steering angle                     | EP 2 B  |
| B50         | Sensor,yaw-rate                           | EP 2 B  |
| B57         | Sensor,air pressure, suspension bellows,1 | FB 4 C  |

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| B58     | Sensor,air perssure,suspension bellow,rhs | FB 4 C  |
| B59     | Sensor, indoor temperature                | NA 3 A  |
| B69C    | Sensor,coolant temperature, retarder      | CX 0 B  |
| B69C    | Sensor,coolant temperature, retarder      | DN4 4 B |
| B96A    | Pre-Sensor, NOx                           | XH 3 C  |
| B96B    | Pos Sensor, NOx                           | XH 0 C  |
| B904    | hydr_oil_level_sens                       | NA 4 C  |
| B906    | Sensor,Brake Press ( 6*2 )                | BC 4 C  |
| B910    | sensor air press. ECS port 21             | FB 5 C  |
| B914    | sensor chassis level front axle LHS       | FB 2 B  |
| B915    | sensor chassis level front axle RHS       | FB 1 B  |
| B918    | Hydraulic oil level sensor 2              | NA 4 C  |
| B920    | Sensor,fuel level 2 front axle            | NA 4 A  |
| B923    | Sensor temp/level adblue tank SCRT DNOX2  | CU 2 B  |
| B927    | Sensor Hydr.oil press                     | BB 1 C  |
| B930    | Sensor temp upstream scrt DNOX2           | CU 2 D  |
| B940    | Sensor brake lining wear indicator,A/B R  | EP 4 B  |
| B941    | Sensor brake lining wear indicator,A/B L  | EP 4 B  |
| B942    | sensor wheel speed A/B R                  | EP 3 B  |
| B943    | sensor wheel speed A/B L                  | EP 3 B  |
| B973    | Fire Sensor, 150°C                        | BB 4 C  |
| B974    | Fire sensor                               | BB 4 C  |
| B975    | Fire sensor                               | BB 4 B  |
| B977    | Sensor, brake pressure                    | NA 5 A  |
| B978    | Sensor, brake pressure                    | NA 4 A  |
| B979    | Parking brake pressure                    | BB 3 B  |
| B980    | Auxilliary pressure                       | BB 3 B  |
| B985    | Fire sensor 4, D13                        | BB 4 D  |
| B986    | Fire sensor 5, D13                        | BB 4 C  |
| B991_10 | temp. DPF                                 | CX 2 C  |
| B992_10 | temp. DPF                                 | CX 1 C  |
| B993_10 | temp. DPF                                 | CX 1 C  |
| B995_13 | SENSOR, DPF PRESSURE                      | CX 2 D  |
| BB1:1   | Idle switch                               | BA 5 B  |
| BB1:2   | Start disable                             | BC 1 C  |
| BB1:3   | Fire alarm,body                           | BC 1 C  |
| BB1:4   | Low priority loads, relay                 | BC 2 C  |
| BB1:5   | Luggage hatch ,open                       | BB 2 B  |
| BB1:6   | Safety belt indicator                     | NA 2 A  |
| BB1:8   | Washer fluid low level                    | NA 2 A  |
| BB1:9   | Altenator charging                        | NA 2 A  |
| BB1:10  | AC 1                                      | BB 1 D  |
| BB1:11  | Parking brake applied                     | BA 4 A  |
| BB1:12  | AC Disable                                | BC 1 C  |
| BB2:1   | Indoor temperator +                       | NA 3 A  |
| BB2:2   | Indoor temperature -                      | NA 3 B  |
| BB2:3   | Out door temperator +                     | NA 3 A  |
| BB2:4   | Out door temperatur-                      | NA 3 B  |
| BB2:5   | D-CAN H                                   | XE 1 B  |
| BB2:6   | D-CAN L                                   | XE 1 B  |
| BB2:7   | Horn(contacts steering wheelside)         | IS 2 B  |
| BB2:8   | Horn supply                               | IS 3 D  |
| BB2:9   | Horn (contacts steer.wheel centre)        | IS 3 B  |
| BB2:10  | Alarm                                     | GB 2 C  |
| BB2:11  | Emergency switch                          | AA 5 B  |
| BB2:12  | Signal 4 pulses/meter C6                  | NB 3 D  |
| BB3:1   | Head lamps off                            | GB 2 C  |
| BB3:2   | Prevent ECS action                        | BC 1 C  |
| BB3:3   | Kneeling position                         | FA 4 C  |
| BB3:4   |                                           | FB 3 D  |
| BB3:5   | Hazard warning lamps                      | GB 2 C  |
| BB3:6   | N/A                                       | GB 4 B  |
| BB3:7   | Next stop indicator                       | NA 2 A  |
| BB3:8   | pram indicator                            | NA 2 A  |
| BB3:9   | N/A                                       | AF 5 C  |
| BB3:10  | Speed signal C3                           | BA 4 B  |
| BB3:11  | +30 main switch (fuse F12)                | BB 3 D  |
| BB3:12  | +15 ignition(fuse F29)                    | BB 3 D  |
| BB4:1   | Glass heating                             | BC 1 C  |
| BB4:2   | Host call                                 | BC 1 C  |
| BB4:3   | Toilet fluid level                        | BC 1 C  |
| BB4:4   | Toilet occupied                           | BC 1 C  |
| BB4:5   | Door failure                              | BC 1 C  |
| BB4:6   | Door brake, status                        | BC 2 C  |
| BB4:7   | Door brake,request                        | EP 2 D  |
| BB4:8   | Speed signal 5 km/h                       | BA 4 A  |
| BB4:9   | Any door open                             | NA 2 A  |

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| BB4:10  | Speed signal X km/h                       | BA 4 B  |
| BB4:11  | Dimmer,dashboard illumination             | GB 1 C  |
| BB5:1   | dipped beam.Left                          | GB 3 B  |
| BB5:2   | Dipped beam.Right                         | GB 2 B  |
| BB5:3   | Direction indicator,front and side.Left   | GB 4 B  |
| BB5:4   | Direction indicator,Front and side. Right | GB 1 B  |
| BB5:6   | Additional main beam                      | GB 0 C  |
| BB5:7   | End-outline maker,side marker,position la | GB 4 B  |
| BB5:8   | End-outline marker,side marker, position  | GB 1 B  |
| BB5:9   |                                           | GE 4 D  |
| BB5:10  |                                           | GE 2 D  |
| BB5:11  | Main beam 1.Left                          | GB 3 B  |
| BB5:12  | Main beam 1.Right                         | GB 2 B  |
| BB6:1   | Starter inhibitor, engine hatch           | BC 2 C  |
| BB6:2   | N/A                                       | GA 3 D  |
| BB6:3   | AC compressor 3                           | CL 2 B  |
| BB6:4   | +30 main swith(fuse F54)                  | GA 3 D  |
| BB6:5   | Luggage hatch, open                       | BB 2 B  |
| BB6:6   | Luggage compartment light                 | BB 3 C  |
| BB6:12  | Reverse warning signal                    | GA 3 B  |
| BB7:1   | Stop lamp.Right                           | GA 3 B  |
| BB7:2   | Reversing lamps                           | GA 4 B  |
| BB7:3   | Direction indicator.Rear left             | GA 5 B  |
| BB7:4   | Direction indicator.Rear right            | GA 2 B  |
| BB7:5   | Extra direction indicator.Left            | GA 4 B  |
| BB7:6   | Extra direction indicator.Right           | GA 3 B  |
| BB7:7   | Rear position lamps.Left                  | GA 5 B  |
| BB7:8   | Rear position lamp.Right                  | GA 2 B  |
| BB7:9   | End-outline marker,sidemarker lamps.Rear  | GA 1 C  |
| BB7:10  | End-outline marker,side marker lamps.Rear | GA 1 C  |
| BB7:11  | Stop lamp,left and Category S3 stop lamps | GA 5 B  |
| BB7:12  | Fog lamps,Rear                            | GA 4 B  |
| BB8:1   | End-outline marker lamp.Front left        | GB 4 A  |
| BB8:2   | End-outline marker lamp.Front right       | GB 1 A  |
| BB8:3   | Extra main beam                           | GB 0 C  |
| BB10A:1 | remote control of extra power amplifier(1 | IU 4 A  |
| BB10A:3 | +15(12V)                                  | IU 3 C  |
| BB10A:5 | +30(12V)                                  | IU 4 C  |
| BB10A:7 | Ground                                    | IU 5 C  |
| BB10A:9 | N/A                                       | IU 3 A  |
| BB10B:1 | remote control of extra power amplifier ( | IU 4 A  |
| BB10B:3 | +15(12V)                                  | IU 4 C  |
| BB10B:5 | +30(12V)                                  | IU 3 C  |
| BB10B:7 | Ground                                    | IU 5 C  |
| BB10B:9 | N/A                                       | IU 3 A  |
| BB11:1  |                                           | GB 4 B  |
| BB12:1  |                                           | GE 2 B  |
| BB12:2  |                                           | GE 1 B  |
| BB13:1  | AC 1 - 50%                                | BC 5 C  |
| BB13:2  | AC compressor 2                           | CL 4 C  |
| BB13:3  | AC compressor 3                           | CL 4 C  |
| BB13:4  |                                           | FB 3 D  |
| BB13:5  | TORQUE REDUCTION                          | BC 5 C  |
| BB13:6  | AC compressor 2                           | CL 3 A  |
| BB13:7  | AC compressor 3                           | CL 2 A  |
| BB13:12 |                                           | GB 0 B  |
| BB13:13 |                                           | GB 0 B  |
| BBI     | BodyBuilder Interface Connector           | AA 5 B  |
| BBI     | BodyBuilder Interface Connector           | AB2 3 B |
| BBI     | BodyBuilder Interface Connector           | AB4 2 C |
| BBI     | BodyBuilder Interface Connector           | AF 5 D  |
| BBI     | BodyBuilder Interface Connector           | BA 5 B  |
| BBI     | BodyBuilder Interface Connector           | BB 2 B  |
| BBI     | BodyBuilder Interface Connector           | BC 1 C  |
| BBI     | BodyBuilder Interface Connector           | CL 4 C  |
| BBI     | BodyBuilder Interface Connector           | EP 2 D  |
| BBI     | BodyBuilder Interface Connector           | FA 4 D  |
| BBI     | BodyBuilder Interface Connector           | FB 3 D  |
| BBI     | BodyBuilder Interface Connector           | GA 3 C  |
| BBI     | BodyBuilder Interface Connector           | GB 1 C  |
| BBI     | BodyBuilder Interface Connector           | IS 2 B  |
| BBI     | BodyBuilder Interface Connector           | IU 4 A  |
| BBI     | BodyBuilder Interface Connector           | NA 3 A  |
| BBI     | BodyBuilder Interface Connector           | NB 3 D  |
| BBI     | BodyBuilder Interface Connector           | ND 3 D  |
| BBI     | BodyBuilder Interface Connector           | XD 3 C  |
| BBI     | BodyBuilder Interface Connector           | XE 1 A  |

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| BBOX:1     |                              | AB2 4 D |
| BBOX:1     | Connector BBOX, BBOX harness | AB3 3 D |
| BBOX:2     |                              | AB2 3 D |
| BBOX:2     | Connector BBOX, BBOX harness | AB3 2 D |
| BBOX:3     |                              | NB 4 D  |
| BFEED:1    |                              | CU 5 D  |
| BIO:1      |                              | CL 3 C  |
| BIO:2      |                              | XD 0 B  |
| BIO:3      |                              | XD 0 B  |
| BIO:4      |                              | XE 4 D  |
| BIO:5      |                              | XE 4 C  |
| BIO:6      |                              | XE 1 B  |
| BIO:7      |                              | XE 1 B  |
| BIO:9      |                              | CL 4 C  |
| BIO:10     |                              | ZC 0 B  |
| BMUX 1:1   |                              | XD 3 C  |
| BMUX 1:2   |                              | XD 3 C  |
| BMUX 1:3   | Externa main switch          | AA 5 C  |
| BMUX 1:4   | Externa main switch          | AA 5 B  |
| BMUX 1:5   |                              | AA 5 D  |
| BOGIE:1    |                              | FB 3 C  |
| BOGIE:2    |                              | FB 3 C  |
| BOGIE:3    |                              | FA 1 B  |
| BOGIE:4    |                              | FA 2 B  |
| BOGIE:5    |                              | FA 2 B  |
| BOGIE:6    |                              | EP 4 C  |
| BOGIE:7    |                              | EP 4 C  |
| BOGIE:8    |                              | EP 3 C  |
| BOGIE:9    |                              | EP 3 C  |
| BOGIE:10   |                              | ZC 3 B  |
| BOGIE:11   |                              | BB 0 C  |
| BOGIE:12   |                              | BB 0 C  |
| BS1:2      |                              | EO 3 B  |
| BS1:3      |                              | EO 3 B  |
| BS1:4      |                              | EO 3 B  |
| BS1:5      |                              | EO 2 B  |
| BS1:8      |                              | EP 5 D  |
| BS1:9      |                              | EP 5 D  |
| BS1:10     |                              | EP 4 C  |
| BS1:11     |                              | EP 5 D  |
| BS1:12     |                              | EP 5 D  |
| BS2:2      |                              | EP 2 C  |
| BS2:3      |                              | EP 2 C  |
| BS2:5      |                              | EP 2 C  |
| BS2:6      |                              | EP 2 C  |
| BS3:1      |                              | EO 2 B  |
| BS3:2      |                              | EO 2 B  |
| BS3:3      |                              | EO 2 B  |
| BS3:4      |                              | EO 1 B  |
| BS3:5      |                              | EP 1 C  |
| BS3:6      |                              | EP 1 C  |
| BS3:7      |                              | EP 1 B  |
| BS3:8      |                              | NA 2 C  |
| BS3:9      |                              | BB 1 B  |
| BS3:10     |                              | BA 0 C  |
| BS3:11     |                              | BA 0 C  |
| BS3:12     |                              | BA 0 C  |
| D1         | Diod                         | BA 3 A  |
| D2         | Diod                         | AA 2 B  |
| D3         | Diode - Wiper motor          | GM 1 B  |
| DBUS_INT:1 |                              | XE 1 C  |
| DBUS_INT:2 |                              | XE 1 C  |
| DF:1       |                              | NC 3 D  |
| DF:1       |                              | NC2 3 D |
| DF:2       |                              | NC 4 C  |
| DF:2       |                              | NC2 4 C |
| DF:3       |                              | NC 5 B  |
| DF:3       |                              | NC2 4 C |
| DF:4       |                              | XD 4 D  |
| DF:5       |                              | XD 3 D  |
| DF:6       |                              | NC 4 D  |
| DF:6       |                              | NC2 3 D |
| DF:11      |                              | NC 3 B  |
| DF:11      |                              | NC2 3 A |
| DPF10:A    |                              | XH 2 C  |
| DPF10:B    |                              | XH 2 D  |
| DPF10:C    |                              | XH 1 B  |

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| DPF10:D     |                                | XH 1 B |
| DPF10:E     |                                | CX 3 D |
| DPF10:F     |                                | BB 4 D |
| DPF10:G     |                                | BB 4 D |
| DPF10:J     |                                | CX 3 C |
| DPF10:K     |                                | CX 2 C |
| DPF10:L     |                                | CX 2 B |
| DPF10:M     |                                | CX 2 B |
| DPF10:N     |                                | XH 2 B |
| DPF10:P     |                                | XH 2 B |
| E07L        | Fog light left                 | GE 2 B |
| E07LR       | Fog light left rear            | GA 4 B |
| E07R        | Fog light right                | GE 1 B |
| E07RR       | Fog light right rear           | GA 4 B |
| E09         | Lamp,brake light               | GA 4 B |
| E11LA       | Side marker light left         | GA 1 B |
| E11LF       | Side marker light left front   | GA 2 B |
| E11LR       | Side marker light left rear    | GA 1 B |
| E11ML       | Side marker light middle left  | GA 1 B |
| E11MR       | Side marker light middle right | GA 0 B |
| E11RA       | Side marker light right        | GA 0 B |
| E11RF       | Side marker light right front  | GA 1 B |
| E11RR       | Side marker light right rear   | GA 1 B |
| E11TL       | Position Light,Left(Trailer)   | GA 2 B |
| E11TR       | Position Light,Right(Trailer)  | GA 1 B |
| E13L        | Dir. ind. left                 | GA 4 B |
| E13LA       | Dir.indicator left             | GA 4 B |
| E13R        | Dir. ind. right                | GA 3 B |
| E13RB       | Dir.indicator right            | GA 3 B |
| earth5_553  |                                | GA 4 A |
| earth6_553  |                                | GA 3 A |
| earth8_553  |                                | GA 3 A |
| earth9_553  |                                | GA 2 B |
| earth10_553 |                                | GA 1 B |
| earth11_553 |                                | GA 1 B |
| earth12_553 |                                | GA 0 B |
| earth18_82  | Ground conn., steering column  | IS 2 A |
| earth23_94  |                                | GA 4 B |
| earth38_72  |                                | GA 4 B |
| ECS1:1      |                                | FA 4 B |
| ECS1:2      |                                | FA 4 B |
| ECS1:3      |                                | FA 4 B |
| ECS1:5      |                                | FB 5 C |
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| ECS1:8      |                                | FB 5 C |
| ECS1:9      |                                | FB 5 C |
| ECS1:10     |                                | FB 1 C |
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| ECS2:3      |                                | FA 5 B |
| ECS2:4      |                                | FB 4 C |
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| EMS:4       |                                | XD 1 C |
| EMS:5       |                                | XD 1 C |
| EMS:6       |                                | BA 4 D |
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| EMS:9       |                                | BA 4 C |
| EMS:10      |                                | ZC 4 B |
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| ENG1:6      |                                | AA 2 C |

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| ENG1:10 |                                           | NA2 4 A |
| ENG1:11 |                                           | NA 4 C  |
| ENG1:12 |                                           | ZC 3 B  |
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| EU4:4   |                                           | EO 1 B  |
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| F1      | ECS, 5A                                   | FA 0 D  |
| F2      | BIC2,10A                                  | NA 1 D  |
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| F5      | Horn,5A                                   | IS 3 D  |
| F7      | Gearbox ECU I-shift, 10A                  | DN 3 D  |
| F8      | Gear selector ,I-Shift,5A                 | DN 3 D  |
| F9      | Switchbox start/stop rear, 5A             | AA 2 D  |
| F10     | Fire Alarm,5A                             | BB 4 D  |
| F11     | Dyna fleet, FMS, 10A                      | NC 5 D  |
| F11     | Dyna fleet, FMS, 10A                      | NC2 4 D |
| F12     | Body +30,5A                               | BB 3 D  |
| F13     | Spare                                     | AB 2 D  |
| F14     | BBM,5A                                    | BB 5 D  |
| F15     | EECU,15A                                  | BA 4 D  |
| F16     | VECU,5A                                   | BA 4 D  |
| F17     | Switch feed, 5A                           | FA 1 D  |
| F18     | Alternator, 5A                            | AF 1 D  |
| F19     | Hymer, 10A                                | AF 4 D  |
| F20     | EBS,10A                                   | EO 5 D  |
| F21     | Wiper,Washer,15A                          | GM 2 D  |
| F23     | ACC, FMS,5A                               | NE 3 D  |
| F24     | BIC 2,5A                                  | NA 1 D  |
| F25     | Washer motor, 15A                         | GM 4 D  |
| F26     | ECS,5A                                    | FA 0 D  |
| F28     | Retarder, 10A                             | DN 4 D  |
| F29     | Body +DR, 5A                              | BB 3 D  |
| F31     | Hydraulic oil, DNOx2, 10A                 | NA 5 D  |
| F32     | Tachograph,5A                             | NB 4 D  |
| F33     | BIC 2,5A                                  | NA 2 D  |
| F35     | LCM ,25A                                  | GA 5 D  |
| F36     | LCM,25A                                   | GA 4 D  |
| F37     | LCM,25A                                   | GA 3 D  |
| F39     | DNOx2, 25A                                | CU 5 D  |
| F40     | Voltage guard, 5A                         | AA 1 D  |
| F41     | Radio,20A                                 | IU 4 D  |
| F42     | Maine Switch,5A                           | AA 5 D  |
| F44     | LCM,25A                                   | GA 5 D  |
| F45     | LCM,25A                                   | GA 4 D  |
| F46     | LCM,25A                                   | GA 4 D  |
| F47     | Side marker L, 5A                         | GA 1 D  |
| F48     | Side marker R, 5A                         | GA 1 D  |
| F49     | Fuel cut off valve, 5A                    | NA 5 D  |
| F51     | Radio,5A                                  | IU 4 D  |
| F52     | Luggage Light,10A                         | BB 2 D  |
| F53     | Bogie Valve, Heater waterseperator, 5A    | BB 0 D  |
| F54     | Engine/Luggage hatch,5A                   | GA 3 D  |
| F55     | Engine brake valve, Preheat relay, Fan sp | BA 4 D  |
| F56     | Engine brake, 10A                         | BA 4 D  |
| F57     | Key switch,5A                             | AA 4 D  |
| F58     | FTM, 5A                                   | CL 3 D  |
| F61     | Light, luggageroom,10A                    | GA 3 D  |
| F62     | Light sleeping compartment, 20A           | GA 3 D  |
| F63     |                                           | CL 1 C  |
| F64     | Load Indicator                            | CL 2 C  |
| F76     | FUSE, 12V Equalizer                       | AB 4 D  |
| F77     | FUSE, 24V Equalizer                       | AB 3 D  |
| F90A    | FUSE - DNOX2RA                            | CU 1 B  |
| F90B    | FUSE - DNOX2RB                            | CU 1 B  |
| F99     | Fuse, Allison +30 power supply            | AB 2 D  |
| F206    | External Pre-Heater, 5A                   | AB5 3 C |
| F907    | Fuse 12V I-shift                          | AB 2 B  |
| F915    | Fuse 12V EMS2                             | AB 2 B  |

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| F955    | Fuse 12V Act. EMS2                      | AB 2 B  |
| F956    | Fuse 12V Fuel Pump                      | AB 2 B  |
| F957    | Fuse 12V Cool Fan                       | AB 3 B  |
| F958    | FUSE 12V Allison, GBX and OBD connector | AB 3 B  |
| FEED:1  |                                         | BA 5 D  |
| FH1     | FuseHolder 12V                          | AB 3 B  |
| FH1A:1  |                                         | DN 3 C  |
| FH1A:2  |                                         | DN 3 C  |
| FH1A:3  |                                         | DN 3 D  |
| FH1A:6  |                                         | IS 3 D  |
| FH1A:7  |                                         | FA 0 D  |
| FH1A:8  |                                         | EO 5 D  |
| FH1A:10 |                                         | NA 1 D  |
| FH1B:1  |                                         | BA 4 D  |
| FH1B:2  |                                         | BA 4 D  |
| FH1B:3  |                                         | BA 5 D  |
| FH1B:4  |                                         | AA 2 D  |
| FH1B:6  |                                         | BB 5 D  |
| FH1B:7  |                                         | BB 4 D  |
| FH1B:8  |                                         | AB 2 D  |
| FH1B:10 |                                         | NC 5 D  |
| FH1B:10 |                                         | NC2 4 D |
| FH1B:11 |                                         | BB 3 D  |
| FH2A:1  |                                         | GM 2 D  |
| FH2A:3  |                                         | NE 3 D  |
| FH2A:4  |                                         | EO 5 D  |
| FH2A:5  |                                         | AA 2 D  |
| FH2A:6  |                                         | NA 1 D  |
| FH2A:7  |                                         | AF 4 D  |
| FH2A:8  |                                         | AF 1 D  |
| FH2A:9  |                                         | FA 1 D  |
| FH2B:1  |                                         | BB 3 D  |
| FH2B:3  |                                         | NA 5 D  |
| FH2B:4  |                                         | DN 4 D  |
| FH2B:5  |                                         | AA 2 D  |
| FH2B:6  |                                         | NB 4 D  |
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| FH2B:9  |                                         | GM 4 D  |
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| FH3A:5  |                                         | BB 0 D  |
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| FH4B:8  |                                         | GA 4 D  |
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| FL2:11  |                                         | GB 5 C  |
| FL2A    | Front light, L                          | GE 4 B  |
| FL3:11  |                                         | GB 5 C  |
| FL3A    | Front light, R                          | GE 2 B  |
| FTM:1   |                                         | CL 3 C  |
| FTM:2   |                                         | XD 0 B  |
| FTM:3   |                                         | XD 0 B  |
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| FTM:9       |                                          | AA 2 D  |
| FTM:10      |                                          | ZC 1 B  |
| FTM_J:4     |                                          | XE 5 B  |
| FTM_J:5     |                                          | XE 5 B  |
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| FUEL:1      |                                          | NA 4 A  |
| FUEL:2      |                                          | NA 4 A  |
| FUEL:3      |                                          | NA 4 B  |
| FUEL:5      |                                          | NA 5 D  |
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| FUEL:9      |                                          | FA 4 C  |
| FUEL:10     |                                          | FB 0 C  |
| FUEL:11     |                                          | FB 3 C  |
| G01         | Battery                                  | AB2 4 B |
| G01.B       | Battery                                  | AC 3 B  |
| G01B        | Battery                                  | AB2 4 B |
| G01B        | Battery                                  | AB3 3 B |
| G01B.A      | Battery                                  | AC 3 B  |
| G01B1       | I-Start Starter Battery                  | AB3 3 B |
| G01C        | I-Start Consumer Battery                 | AB4 3 B |
| G01C1       | I-Start Consumer Battery                 | AB4 3 B |
| G02         | Alternator 1                             | AF 2 B  |
| G03         | Alternator 2                             | AF 2 B  |
| G03_I_START | Ring Terminal Alternator 2               | AF 2 B  |
| G08A        | Battery                                  | AC 3 B  |
| G08A_A      | Ring Terminal starter battery/DC-Convert | AC 3 C  |
| G08B        | Battery                                  | AC 3 B  |
| G08B_B      | Battery B-                               | AC 3 A  |
| G901        | Battery Equalizer                        | AB 3 D  |
| GBX:1       |                                          | DN3 2 D |
| GBX:1       |                                          | DN4 2 D |
| GBX:2       |                                          | DN 2 C  |
| GBX:7       |                                          | XC 0 B  |
| GBX:8       |                                          | XC 0 B  |
| GBX:9       |                                          | XD 1 B  |
| GBX:10      |                                          | XD 1 B  |
| GBX:13      |                                          | NA 4 C  |
| GBX:17      |                                          | BA 2 B  |
| GBX:18      |                                          | BA 2 B  |
| GND         | GND - Adapter_AHI                        | BA 2 A  |
| GND1A       | GND - Electrical Center                  | ZC 2 B  |
| GND1B       | GND - Electrical Center                  | ZC 4 A  |
| GND1C       | GND4/GND5 - Electrical Center            | ZC 2 A  |
| GND1D       | GND - Batt_Box_NVPDUF                    | ZC 1 A  |
| GND1E       | GND - US13                               | CS 0 C  |
| GND1UA:1    | GND - DNOX2RA                            | CU 2 A  |
| GND1UB:1    | GND - DNOX2RB                            | CU 1 A  |
| GND2A       | GND - ALT_1                              | AF 2 A  |
| GND2B       | GND - ALT_2                              | AF 2 A  |
| GND6        | GND - Driver Location                    | GB 5 B  |
| GND6B       | GND6Q/GND6R - Driver Location            | ZC 3 C  |
| GND11       | GND - Rear Axle                          | ZC 1 C  |
| GND11A      | Ground                                   | ZC 1 C  |
| GND31A      | GND - Batt_Box_NVPDUF                    | ZC 1 A  |
| GND31A:A    | GND - Batt_Boxx_NVPDUF                   | ZC 0 A  |
| GND31A:B    | Ground                                   | AB 2 D  |
| GND31B      | GND - Battery                            | AB2 4 A |
| GND31B      | GND - Battery                            | AB3 3 A |
| GND31F      | GND - Frame                              | ZC 3 A  |
| GND31R      | GND - Rails                              | ZC 3 A  |
| GND40       | GND - STARTER_ENG                        | AF 3 A  |
| GND41       | GND - STARTER_ENG_US                     | AF 3 A  |
| GND51       | Ground                                   | ZC 0 A  |
| GND74       | GND - SCR                                | CU 1 A  |
| GND75       | GND - Equalizer                          | AB 2 D  |
| GND900      | GND - Starter Batteries                  | AB4 3 A |
| GND900      | GND - Starter Batteries                  | AC 3 A  |
| GND_PH      | GND - Pre heater                         | AB5 2 B |
| GNDX        | GND - Xenon Lights                       | ZC 0 B  |
| H01         | Air,Operated                             | IS 3 C  |
| H02         | Diaphragm horn                           | IS 2 C  |
| IB1:1       |                                          | NA 2 D  |

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| IB3:16 |             | IU 4 C  |
| IB3:17 |             | FA 1 D  |
| IB3:18 |             | ZC 4 B  |
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| IB4:5  |             | GB 3 C  |
| IB4:6  |             | GA 4 B  |
| IB4:7  |             | GB 3 C  |
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| IB5:15    |                      | FA 1 B  |
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| IB7:6     |                      | XF 0 C  |
| IB7:7     |                      | NA 2 C  |
| IB7:8     |                      | GM 1 C  |
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| IB8:1     |                      | EO 4 B  |
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| IB8:3     |                      | EO 4 B  |
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| IB8:7     |                      | GB 1 C  |
| IB8:8     |                      | CL 2 B  |
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| IB9:8     |                      | BA 3 C  |
| IB9:9     |                      | BA 2 C  |
| IB9:10    |                      | BA 2 C  |
| IB9:11    |                      | BA 2 C  |
| IB9:12    |                      | BA 2 C  |
| IB10:1    |                      | DN 4 C  |
| IB10:2    |                      | GA 2 C  |
| IB10:3    |                      | BB 4 B  |
| IB10:8    |                      | DN 3 C  |
| IB10:9    |                      | ZC 1 B  |
| IB10:10   |                      | DN 4 C  |
| IB10_I:1  |                      | DN 4 C  |
| IB10_I:8  |                      | DN 3 C  |
| IB10_I:10 |                      | DN 4 C  |
| IS:1      |                      | XD 3 D  |
| IS:2      |                      | XD 3 D  |
| IS:3      |                      | XC 4 C  |
| IS:4      |                      | XC 4 C  |
| K2        | Over Load Indicator  | CL 2 C  |
| K02       | Relay - Day Light    | GB 5 C  |
| K3        | ECS                  | FA 0 B  |
| K4        | I-Shift/Voith        | DN 3 D  |
| K7        | Start engine         | AF 4 C  |
| K8        | VECU/EMS             | BA 5 C  |
| K9        | Wiper/Washer         | GM 2 C  |
| K11       | Prevent start engine | AA 2 C  |

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|---------|-----------------------------------------|---------|
| K12     | Luggage Light                           | BB 2 C  |
| K13     | Emergency switch relay                  | AA 4 D  |
| K14     | Bogie                                   | BB 0 C  |
| K17     | Ignition +15                            | AA 2 D  |
| K35     | relay disconn headlight wash            | GM 4 C  |
| K48     | Relay Engine Preheating                 | AB5 3 C |
| K53     | Relay                                   | AB3 1 C |
| K300    | I-Start Main Relay                      | AB3 1 C |
| K400    | I-Start +30 Relay (Body)                | AB4 3 D |
| K902    | Relay heated hose pressure line         | CU 3 B  |
| K903    | Relay heated hose backflow to pump line | CU 3 B  |
| K908    | Relay heated hose suction line          | CU 4 B  |
| K909    | Relay heated hose backflow to tank line | CU 2 B  |
| K911    | Relay, DRL Light                        | GE 3 C  |
| K918    | Relay 12V EMS2                          | AB 3 C  |
| K919    | Relay 12V IVS                           | AB 2 C  |
| KH1A:1  |                                         | FA 0 B  |
| KH1A:2  |                                         | FA 0 B  |
| KH1A:3  |                                         | FA 0 B  |
| KH1A:4  |                                         | CL 2 C  |
| KH1A:5  |                                         | FA 0 B  |
| KH1A:7  |                                         | CL 2 B  |
| KH1A:10 |                                         | CL 2 B  |
| KH1A:11 |                                         | CL 2 C  |
| KH1B:1  |                                         | DN 3 D  |
| KH1B:2  |                                         | DN 3 D  |
| KH1B:3  |                                         | DN 3 D  |
| KH1B:5  |                                         | DN 3 D  |
| KH2A:1  |                                         | BA 3 A  |
| KH2A:3  |                                         | BA 5 C  |
| KH2A:4  |                                         | BA 3 B  |
| KH2A:5  |                                         | BA 5 C  |
| KH2A:6  |                                         | BA 5 C  |
| KH2A:7  |                                         | AF 4 C  |
| KH2A:8  |                                         | AF 4 C  |
| KH2A:9  |                                         | BA 5 C  |
| KH2A:10 |                                         | AF 5 C  |
| KH2A:11 |                                         | AF 4 C  |
| KH2A:12 |                                         | AF 4 C  |
| KH2B:1  |                                         | AA 2 B  |
| KH2B:2  |                                         | GM 2 C  |
| KH2B:3  |                                         | GM 2 C  |
| KH2B:4  |                                         | AA 2 B  |
| KH2B:5  |                                         | GM 2 C  |
| KH2B:6  |                                         | GM 2 C  |
| KH2B:9  |                                         | GM 2 C  |
| KH3A:1  |                                         | AA 4 D  |
| KH3A:3  |                                         | AA 4 C  |
| KH3A:4  |                                         | BB 2 C  |
| KH3A:5  |                                         | AA 4 D  |
| KH3A:6  |                                         | AA 4 C  |
| KH3A:7  |                                         | BB 2 D  |
| KH3A:8  |                                         | AA 2 C  |
| KH3A:9  |                                         | AA 2 C  |
| KH3A:10 |                                         | BB 2 D  |
| KH3A:11 |                                         | BB 2 C  |
| KH3A:12 |                                         | AA 2 C  |
| KH3A:14 |                                         | AA 2 C  |
| KH3B:1  |                                         | BB 0 D  |
| KH3B:2  |                                         | BB 0 C  |
| KH3B:3  |                                         | BB 0 D  |
| KH3B:5  |                                         | BB 0 C  |
| M01     | Motor, windscreen wiper                 | GM 1 B  |
| M02     | windscreen washer motor                 | GM 3 B  |
| M03     | headlights washer motor                 | GM 4 B  |
| M_01:1  |                                         | GM 0 B  |
| M_01:2  |                                         | GM 0 B  |
| M_01:3  |                                         | GM 1 B  |
| M_01:4  |                                         | GM 1 B  |
| M_01:5  |                                         | GM 1 A  |
| M_01:6  |                                         | GM 4 C  |
| M_01:8  |                                         | GM 3 B  |
| M_01:9  |                                         | GM 4 C  |
| M_01:11 |                                         | GM 4 B  |
| M_01:12 |                                         | GM 3 B  |
| M_01:13 |                                         | GM 4 B  |
| M_01:14 |                                         | GM 4 C  |

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| MC-2 17 |             | AC 2 C  |
| MED:1   |             | XC 3 B  |
| MED:2   |             | XD 5 B  |
| MED:2   |             | XG 3 B  |
| MED:3   |             | CS 5 C  |
| MED:4   |             | XC 3 B  |
| MED:5   |             | XD 5 B  |
| MED:5   |             | XG 3 A  |
| MED:6   |             | CS 5 C  |
| MED:7   |             | CS 4 B  |
| MED:8   |             | CS 5 C  |
| MED:9   |             | AF 2 C  |
| MED:10  |             | AF 1 C  |
| MED:11  |             | DN5 4 C |
| MED:12  |             | AF 1 A  |
| MED:13  |             | CS 2 C  |
| MED:14  |             | BB 4 C  |
| MED:15  |             | CS 1 C  |
| MED:16  |             | BB 4 B  |
| MED:17  |             | AF 1 C  |
| MED:18  |             | CS 4 C  |
| MED:19  |             | DN5 3 C |
| MED:20  |             | CS 2 C  |
| MED:21  |             | CS 3 C  |
| MED:22  |             | CS 1 A  |
| MED:23  |             | CS 1 C  |
| MED:24  |             | CS 2 B  |
| MED:25  |             | CS 5 C  |
| MED:26  |             | CS 3 C  |
| MED:27  |             | CS 0 C  |
| MED:28  |             | CS 4 C  |
| MED:29  |             | CS 2 B  |
| MED:30  |             | CS 4 B  |
| MED:31  |             | CS 0 C  |
| MED:32  |             | CS 2 C  |
| MED:33  |             | CS 2 C  |
| MED:34  |             | CS 3 C  |
| MED:35  |             | AF 4 B  |
| MED:36  |             | CS 3 C  |
| MED:37  |             | CS 4 C  |
| MED:39  |             | CS 0 C  |
| MEDA:1  |             | NB 4 B  |
| MEDA:2  |             | NB 4 B  |
| MEDA:3  |             | NB 4 B  |
| MEDA:4  |             | NB 4 B  |
| MEDA:5  |             | DN4 4 D |
| MEDA:6  |             | DN4 4 D |
| MEDA:7  |             | XC 2 B  |
| MEDA:8  |             | XC 2 B  |
| MEDA:9  |             | XD 4 B  |
| MEDA:10 |             | XD 5 B  |
| MEDA:11 |             | DN3 3 C |
| MEDA:11 |             | DN4 3 D |
| MEDA:12 |             | DN3 2 C |
| MEDA:12 |             | DN4 2 D |
| ML1:1   |             | GB 4 A  |
| ML1:2   |             | ZC 2 D  |
| ML1:3   |             | GE 4 B  |
| ML1:4   |             | ZC 2 D  |
| ML1:5   |             | GE 4 B  |
| ML1:6   |             | ZC 2 D  |
| ML1:7   |             | GE 4 B  |
| ML2:1   |             | GB 1 A  |
| ML2:2   |             | ZC 2 D  |
| ML2:3   |             | GE 2 B  |
| ML2:4   |             | ZC 2 D  |
| ML2:5   |             | GE 2 B  |
| ML2:6   |             | ZC 2 D  |
| ML2:7   |             | GE 2 B  |
| ML3:1   |             | BB 2 C  |
| ML3:2   |             | BB 3 D  |
| ML3:3   |             | GA 1 B  |
| ML3:4   |             | GA 1 B  |
| ML3:5   |             | GA 0 B  |
| ML3:6   |             | GA 3 C  |
| ML3:7   |             | GA 1 B  |
| ML4:1   |             | BB 2 C  |

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| ML4:2   |                               | BB 3 D  |
| ML4:3   |                               | GA 1 B  |
| ML4:4   |                               | GA 1 B  |
| ML4:5   |                               | GA 2 B  |
| ML4:6   |                               | GA 3 C  |
| ML4:7   |                               | GA 1 B  |
| NX903   | I-Start Front Fuse Box        | AB2 5 C |
| NX903   | I-Start Front Fuse Box        | AB3 4 D |
| NX904   | I-Start Rear Fuse BOX         | AB2 2 C |
| OBD     | ON BOARD DIAGNOSTIC CONNECTOR | NA2 4 C |
| R01     | Heater, engine preheat        | AB5 2 C |
| R02     | Heater, rear view mirror      | GB 5 B  |
| R08     | Termination resistor,CAN-bus  | XC 4 D  |
| R904    | Resistor DBUS                 | XE 1 B  |
| R905    | Heated Hose Suction Line      | CU 4 B  |
| R905_US | suction_line                  | CX 3 A  |
| R905A:1 |                               | CU 4 B  |
| R905A:2 |                               | CU 4 B  |
| R905B:1 |                               | CU 4 B  |
| R905B:2 |                               | CU 4 B  |
| R905C:1 |                               | CU 4 B  |
| R905C:2 |                               | CU 4 B  |
| R906    | Heated Hose Pressure Line     | CU 3 B  |
| R906_US | Pressure_line                 | CX 3 A  |
| R906A:1 |                               | CU 3 B  |
| R906A:2 |                               | CU 3 B  |
| R906B:1 |                               | CU 3 B  |
| R906B:2 |                               | CU 3 B  |
| R906C:1 |                               | CU 3 B  |
| R906C:2 |                               | CU 3 B  |
| R907    | 1939-7 resistor               | XF 0 B  |
| R908    | Heated_Hose_Backflow_to_tank  | CU 2 B  |
| R908A:1 |                               | CU 2 B  |
| R908A:2 |                               | CU 2 B  |
| R908B:1 |                               | CU 2 B  |
| R908B:2 |                               | CU 2 B  |
| R908C:1 |                               | CU 2 B  |
| R908C:2 |                               | CU 2 B  |
| R909    | Heated_Filter                 | CU 5 B  |
| R910    | Heated_Hose_Backflow_to_pump  | CU 3 B  |
| R910A:1 |                               | CU 3 B  |
| R910A:2 |                               | CU 3 B  |
| R910B:1 |                               | CU 3 B  |
| R910B:2 |                               | CU 3 B  |
| R910C:1 |                               | CU 3 B  |
| R910C:2 |                               | CU 3 B  |
| R918    | Termination resistor 120ohm   | XG 0 A  |
| RA1:1   |                               | NB 4 B  |
| RA1:2   |                               | NB 4 B  |
| RA1:3   |                               | NB 4 B  |
| RA1:4   |                               | NB 4 B  |
| RA1:5   |                               | NA 3 C  |
| RA1:6   |                               | AF 2 C  |
| RA1:7   |                               | AF 1 C  |
| RA1:10  |                               | NA 4 C  |
| RA1:11  |                               | AB2 3 D |
| RA1:11  | Connector Electrical Center   | AB3 2 D |
| RL1A    | Rear light, R                 | GA 2 B  |
| RL2A    | Rear light, L                 | GA 5 B  |
| RL3:1   |                               | GA 2 B  |
| RL3:2   |                               | GA 1 B  |
| RL3:3   |                               | GA 4 B  |
| RL3:4   |                               | GA 3 B  |
| RL3:5   |                               | GA 3 C  |
| RL3:6   |                               | GA 4 B  |
| RL3:7   |                               | GA 3 B  |
| RL3:8   |                               | BC 2 C  |
| RL3:10  |                               | GA 4 B  |
| RL3:11  |                               | GA 3 C  |
| RL3:12  |                               | ZC 2 D  |
| RL4:1   |                               | GA 4 B  |
| RL4:2   |                               | GA 3 B  |
| RL4:3   |                               | GA 1 B  |
| RL4:4   |                               | GA 0 B  |
| RL4:5   |                               | GA 4 B  |
| RL4:7   |                               | GA 3 B  |
| RL:1    |                               | GB 5 C  |

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| RL:3        |                                           | GB 4 B  |
| RL_DA:1     |                                           | GB 5 B  |
| RL_DB:1     |                                           | GB 5 C  |
| S01         | Switch,main lighting,selector type        | GB 4 C  |
| S02         | Stalk switch LHS                          | BA 3 D  |
| S02         | Stalk switch LHS                          | GB 2 D  |
| S06         | Stalk switch , windscreen wiper, selector | GM 1 D  |
| S06         | Stalk switch , windscreen wiper, selector | NA 2 B  |
| S08         | Switch,differential gear lock,rear wheels | EO 3 C  |
| S11         | switch bogie lift                         | FA 3 B  |
| S12         | Main switch                               | AA 4 C  |
| S14A        | Switch, push button, Air horn             | IS 3 A  |
| S14B        | Switch, push button, Air horn             | IS 2 A  |
| S15A        | Switch,Starter Key                        | AA 3 D  |
| S15B        | Switch,Starter Feed                       | AA 4 B  |
| S16         | Switch, push button, El. horn             | IS 2 A  |
| S20         | Dynafleet Switch                          | NC2 3 C |
| S24         | stalk switch retarder                     | BA 1 D  |
| S31         | Switch, TCS ( Traction Control System )   | EP 1 B  |
| S32         | Brake hold                                | EP 0 C  |
| S34         | Switch unit, steering wheel push buttons  | IU 2 D  |
| S41         | Switch, battery main switch control       | AB2 4 B |
| S45         | Position switch,differential gear lock in | EP 1 C  |
| S50         | Switch, pressure parking brake indicator, | BA 3 B  |
| S58         | clutch switch                             | BA 2 C  |
| S68         | Sensor coolant level                      | CS 4 D  |
| S68_13      | Sensor Coolant level                      | CS 4 D  |
| S70         | Switch Hydr.oil ,Flow sensor              | BB 0 B  |
| S77         | Assistance call                           | NC 3 C  |
| S90         | Battery Switch                            | AB3 3 C |
| S901        | eng_stop_rear                             | AA 1 B  |
| S902        | switch leveling                           | FA 1 B  |
| S904        | Switch,emergency cut-out                  | AA 4 D  |
| S905        | Switch,Retarder                           | BA 1 A  |
| S907        | eng_start_rear                            | AA 2 B  |
| S908        | eng_start_enable_rear                     | AA 1 B  |
| S915        | Switch,kneeling                           | FA 3 C  |
| S925        | Switch, Alcolock                          | ND 3 C  |
| S_T_S:1     |                                           | NB 3 B  |
| S_T_S:2     |                                           | NB 3 B  |
| S_T_S:3     |                                           | NB 3 B  |
| S_T_T:3     |                                           | NB 3 B  |
| TC30_1_3944 | twisted pair                              | XD 0 B  |
| T900        | DC converter temperature sensor           | AC 3 B  |
| TC30-1_613  | twisted pair                              | XD 5 B  |
| TC30-1_893  | twisted pair                              | BA 2 C  |
| TC30-2_613  | twisted pair                              | XD 3 B  |
| TC30-2_893  | twisted pair                              | BA 2 C  |
| TC30-3_613  | twisted pair                              | XD 3 B  |
| TC30-3_893  | twisted pair                              | BA 2 C  |
| TC30-4_553  | twisted pair                              | XD 5 B  |
| TC30-4_613  | twisted pair                              | XD 2 B  |
| TC30-4_893  | twisted pair                              | BA 1 C  |
| TC30-5_613  | twisted pair                              | XD 3 D  |
| TC30-6_613  | twisted pair                              | XD 3 B  |
| TC30-11_553 | twisted pair                              | XD 5 C  |
| TC30-12_553 | twisted pair                              | XD 4 D  |
| TC30_1_163  | twisted pair                              | XD 4 D  |
| TC30_1_5825 | twisted pair                              | NC2 3 A |
| TC30_2_58   | twisted pair                              | XD 0 D  |
| TC30_2_163  | twisted pair                              | XD 4 D  |
| TC30_3_163  | twisted pair                              | XD 4 D  |
| TC30_3_1494 | twisted pair                              | XD 5 B  |
| TC30_4      | twisted pair                              | XD 0 A  |
| TC30_4_163  | twisted pair                              | XD 4 C  |
| TC30_5_163  | twisted pair                              | XD 3 D  |
| TC30_6_62   | twisted pair                              | XD 2 D  |
| TC30_6_163  | twisted pair                              | XD 3 D  |
| TC30_7      | twisted pair                              | XD 2 C  |
| TC30_7_163  | twisted pair                              | XD 3 D  |
| TC30_8_163  | twisted pair                              | XD 3 D  |
| TC30_10_163 | twisted pair                              | XD 2 D  |
| TC30_11_163 | twisted pair                              | XD 2 D  |
| TC30_12_163 | twisted pair                              | XD 2 D  |
| TC30_13_163 | twisted pair                              | XD 2 D  |
| TC30_14_163 | twisted pair                              | XD 2 D  |
| TC30_15_163 | twisted pair                              | XD 2 D  |

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| TC30_16_163  | twisted pair | XD 1 D  |
| TC30_17_163  | twisted pair | XD 1 D  |
| TC30_18_163  | twisted pair | XD 1 D  |
| TC30_19_163  | twisted pair | XD 1 D  |
| TC30_20_163  | twisted pair | XD 0 D  |
| TC30_21_163  | twisted pair | XD 0 D  |
| TC30_23_163  | twisted pair | XD 0 B  |
| TC30_24_163  | twisted pair | XD 1 B  |
| TC30_28_163  | twisted pair | XD 1 C  |
| TC40-1_14    | twisted pair | XC 3 A  |
| TC40-1_90    | twisted pair | NC 3 B  |
| TC40-1_1396  | twisted pair | XH 2 B  |
| TC40-1_2692  | twisted pair | CS 2 C  |
| TC40-1_4746  | twisted pair | XF 0 C  |
| TC40-1_5825  | twisted pair | NC2 3 A |
| TC40-2_14    | twisted pair | XC 3 B  |
| TC40-2_90    | twisted pair | NE 2 B  |
| TC40-2_1396  | twisted pair | XH 2 B  |
| TC40-2_2692  | twisted pair | CS 3 D  |
| TC40-2_4746  | twisted pair | XF 0 C  |
| TC40-2_5498  | twisted pair | DN2 0 C |
| TC40-2_5825  | twisted pair | XC 0 A  |
| TC40-3_1396  | twisted pair | XH 2 B  |
| TC40-3_2581  | twisted pair | XH 3 B  |
| TC40-4_14    | twisted pair | XJ 2 C  |
| TC40-4_2581  | twisted pair | XH 2 B  |
| TC40-4_2692  | twisted pair | CS 2 D  |
| TC40-5_14    | twisted pair | CS 4 A  |
| TC40-5_1494  | twisted pair | XF 1 C  |
| TC40-5_2581  | twisted pair | XH 1 B  |
| TC40-5_2692  | twisted pair | CX 2 A  |
| TC40-6_14    | twisted pair | XJ 4 C  |
| TC40-6_613   | twisted pair | XF 4 B  |
| TC40-6_2581  | twisted pair | XH 1 B  |
| TC40-6_2692  | twisted pair | CX 2 B  |
| TC40-7_14    | twisted pair | XJ 4 C  |
| TC40-7_1494  | twisted pair | XH 3 B  |
| TC40-8_14    | twisted pair | XJ 3 B  |
| TC40-9_613   | twisted pair | XF 3 C  |
| TC40-9_2692  | twisted pair | CU 4 D  |
| TC40-10_613  | twisted pair | XF 3 C  |
| TC40-11_613  | twisted pair | XF 0 C  |
| TC40-11_1494 | twisted pair | XF 5 C  |
| TC40-12_2692 | twisted pair | CS 5 C  |
| TC40-13_553  | twisted pair | XF 2 B  |
| TC40-13_2692 | twisted pair | CU 3 D  |
| TC40-14_2692 | twisted pair | CU 3 D  |
| TC40-15_2692 | twisted pair | CU 4 D  |
| TC40-16_553  | twisted pair | XF 2 C  |
| TC40-16_613  | twisted pair | XF 4 C  |
| TC40-16_2692 | twisted pair | CS 2 B  |
| TC40-17_553  | twisted pair | XF 1 C  |
| TC40-17_613  | twisted pair | XC 2 B  |
| TC40-18_2692 | twisted pair | CU 3 C  |
| TC40-19_553  | twisted pair | XF 2 C  |
| TC40-19_613  | twisted pair | XC 0 C  |
| TC40-19_2692 | twisted pair | CU 4 D  |
| TC40-20_553  | twisted pair | XF 2 C  |
| TC40-21_553  | twisted pair | XF 3 C  |
| TC40-24_14   | twisted pair | XH 5 B  |
| TC40-27_14   | twisted pair | XH 0 B  |
| TC40-28_14   | twisted pair | XH 4 B  |
| TC40_1       | twisted pair | XC 5 C  |
| TC40_1_17    | twisted pair | EO 2 C  |
| TC40_1_1396  | twisted pair | DN5 4 B |
| TC40_2_17    | twisted pair | EO 2 C  |
| TC40_2_62    | twisted pair | XC 3 C  |
| TC40_2_1396  | twisted pair | DN5 4 B |
| TC40_2_6941  | twisted pair | DN5 4 A |
| TC40_3       | twisted pair | XC 1 B  |
| TC40_3_17    | twisted pair | EO 1 C  |
| TC40_3_62    | twisted pair | EP 3 C  |
| TC40_3_245   | twisted pair | XC 3 A  |
| TC40_3_1396  | twisted pair | DN5 4 B |
| TC40_4_17    | twisted pair | EO 1 C  |
| TC40_4_621   | twisted pair | XC 0 B  |
| TC40_5       | twisted pair | XC 4 D  |

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| TC40_5_22    | twisted pair                        | XF 4 C  |
| TC40_6       | twisted pair                        | XC 4 C  |
| TC40_7       | twisted pair                        | XC 4 C  |
| TC40_7_6941  | twisted pair                        | DN5 4 A |
| TC40_8_6941  | twisted pair                        | DN5 4 A |
| TC40_9       | twisted pair                        | XC 4 D  |
| TC40_9_6941  | twisted pair                        | DN5 4 B |
| TC40_10      | twisted pair                        | XC 3 D  |
| TC40_10_6941 | twisted pair                        | DN5 4 B |
| TC40_11      | twisted pair                        | XC 3 C  |
| TC40_11_6941 | twisted pair                        | DN5 4 B |
| TC40_12      | twisted pair                        | XC 3 D  |
| TC40_13      | twisted pair                        | XC 2 C  |
| TC40_14      | twisted pair                        | XC 2 D  |
| TC40_15      | twisted pair                        | XC 2 C  |
| TC40_17_62   | twisted pair                        | NE 3 B  |
| TC40_18      | twisted pair                        | XC 1 D  |
| TC40_19      | twisted pair                        | XC 1 C  |
| TC40_20      | twisted pair                        | XC 1 D  |
| TC40_21      | twisted pair                        | XC 1 C  |
| TC40_22      | twisted pair                        | XC 0 D  |
| TC40_29      | twisted pair                        | XC 0 B  |
| TC40_31      | twisted pair                        | XC 1 B  |
| TC40_57      | twisted pair                        | EO 2 B  |
| TC40_58      | twisted pair                        | EO 2 B  |
| TC40_59      | twisted pair                        | EO 2 B  |
| TC40_60      | twisted pair                        | EO 2 B  |
| TC40_61      | twisted pair                        | EP 3 C  |
| TC40_62      | twisted pair                        | EO 1 B  |
| TC40_65      |                                     | BC 2 C  |
| TC40_66      |                                     | XE 5 B  |
| TC40_68      |                                     | XE 5 C  |
| TC40_69      |                                     | XE 4 D  |
| TC40_70      |                                     | XE 4 C  |
| TC40_71      |                                     | XE 3 D  |
| TC40_72      |                                     | XE 3 C  |
| TC40_73      |                                     | XE 2 D  |
| TC40_74      |                                     | XE 2 C  |
| TC40_75      |                                     | XE 2 D  |
| TC40_76      |                                     | XE 1 C  |
| TC40_77      |                                     | XE 1 C  |
| TC40_78      |                                     | XE 1 C  |
| TC40_79      |                                     | XE 1 B  |
| TC40_105     | twisted pair                        | EP 2 B  |
| TC40_106     | twisted pair                        | EP 2 B  |
| TC40_107     | twisted pair                        | EP 2 C  |
| TC40_154     | twisted pair                        | EP 2 B  |
| TC40_301     | twisted pair                        | XC 4 D  |
| TC45-1_14    | Twisted pair with 45 TPM            | XG 3 B  |
| TC45-1_512   | Twisted pair with 45 TPM            | XG 2 B  |
| TC45-1_800   | Twisted pair with 45 TPM            | DN5 3 C |
| TC45-1_1396  | Twisted pair with 45 TPM            | XG 2 B  |
| TC45-1_5825  | Twisted pair with 45 TPM            | NC2 2 B |
| TC45-2_14    | Twisted pair with 45 TPM            | XG 4 B  |
| TC45-2_5825  | Twisted pair with 45 TPM            | NC2 2 C |
| TC45-3_14    | Twisted pair with 45 TPM            | XG 5 B  |
| TC45-3_141   | twisted pair                        | CS 3 C  |
| TC45-3_5825  | Twisted pair with 45 TPM            | NC2 2 C |
| TC45-4_14    | Twisted pair with 45 TPM            | XG 1 B  |
| TC45-4_613   | twisted pair                        | DN4 4 C |
| TC45-4_5825  | Twisted pair with 45 TPM            | XG 4 B  |
| TC45-5_14    | Twisted pair with 45 TPM            | XG 4 B  |
| TC45-5_5825  | Twisted pair with 45 TPM            | XG 2 B  |
| TC45-6_14    | Twisted pair with 45 TPM            | XG 3 B  |
| TC45-8_14    | Twisted pair with 45 TPM            | XG 1 B  |
| TC45-9_14    | Twisted pair with 45 TPM            | XG 1 B  |
| TC45-18_613  | twisted pair                        | XC 2 B  |
| TC45_1_800   | twisted pair                        | DN5 1 B |
| TC45_2_6941  | twisted pair                        | XC 1 A  |
| TC45_37      | twisted pair                        | XC 2 A  |
| TC_1_3944    |                                     | NA2 1 B |
| TC_2_14      | twisted pair                        | XJ 1 D  |
| TC_3_14      | twisted pair                        | XJ 1 C  |
| TC_4_14      | twisted pair                        | XJ 1 C  |
| TC_5_14      | twisted pair                        | XJ 1 B  |
| TC_6_14      | twisted pair                        | XJ 2 B  |
| U03          | Modulator,EBS,rear axle(drive axle) | EO 2 C  |

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| U04        | Modulator EBS, bogie        | EP 4 B |
| U06        | Voltage converter           | IU 4 C |
| U08        | Modulator,EBS,front         | EO 3 C |
| U12        | Voltage converter, Bi-xenon | GE 3 C |
| U25        | Voltage converter, DC/DC    | AC 2 C |
| UDS12:1    |                             | XF 2 B |
| UDS12:2    |                             | XF 2 B |
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| UDS12:4    |                             | CU 3 C |
| UDS12:5    |                             | XD 3 B |
| UDS12:6    |                             | XD 3 B |
| UDS12:7    |                             | CU 4 C |
| UDS12:8    |                             | CU 3 C |
| UDS12:9    |                             | CU 2 C |
| UDS12:11   |                             | CU 5 C |
| UDS12:12   |                             | CU 0 B |
| UDS12_B:1  |                             | XF 3 B |
| UDS12_B:2  |                             | XF 3 B |
| UDS12_B:3  |                             | CU 3 C |
| UDS12_B:4  |                             | CU 3 C |
| UDS12_B:5  |                             | XD 3 B |
| UDS12_B:6  |                             | XD 3 B |
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| UDS12_B:8  |                             | CU 2 D |
| UDS12_B:9  |                             | CU 2 D |
| UDS12_B:11 |                             | CU 4 D |
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| UDS12_F:2  |                             | XF 2 B |
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| UDS12_F:4  |                             | CU 4 C |
| UDS12_F:5  |                             | XD 2 B |
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| UDS12_M:4  |                             | CU 3 C |
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| UDS12_M:6  |                             | XD 3 B |
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| UDS12_M:9  |                             | CU 2 D |
| UDS12_M:11 |                             | CU 5 D |
| UDS12_M:12 |                             | CU 0 B |
| V03        | Diod, Light                 | GE 3 B |
| V04        | Diod, Light                 | GE 3 B |
| VBC635     | Sensor, PM                  | XH 2 C |
| VIC:1      |                             | XC 3 A |
| VIC:2      |                             | CS 1 B |
| VIC:2      |                             | XD 5 B |
| VIC:3      |                             | CS 5 C |
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| VIC:37      |                                 | CS 4 C  |
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| X701        | I-Start Media Bracket (Chassis) | AB3 3 B |
| X801        | I-Start Media Bracket (Body)    | AB4 3 C |
| X901        | Connector Battery +             | AB2 1 A |
| X905        | VPDU Rear without preheat relay | AB4 2 D |
| X910        | Junction Box for Chassis        | AB2 4 B |
| XC85        |                                 | GE 3 D  |
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| XC901:2     |                                 | NA2 0 C |
| XC901:3     |                                 | XG 2 B  |
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| XC901_(2):2 |                                 | NC2 1 B |
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| XC901_(2):4 |                                 | NC2 2 C |
| XC901_(2):5 |                                 | NC2 1 B |
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| XC917:3     |                                 | CL 4 B  |
| XC917:4     |                                 | CL 3 B  |
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| XSF88  |             | XF 4 C  |
| XSF89  |             | XF 5 C  |
| XSF92  |             | BA 3 D  |
| XSF93  |             | BB 3 C  |
| XSF94  |             | BB 3 B  |
| XSF95  |             | AB 2 B  |
| XSF96  |             | AB 3 C  |
| XSF97  |             | CS 1 D  |
| XSF98  |             | CS 4 D  |
| XSF102 |             | CU 2 D  |
| XSF103 |             | CU 2 D  |
| XSF104 |             | CU 3 D  |
| XSF105 |             | CU 2 D  |
| XSF106 |             | CU 4 D  |
| XSF107 |             | CU 4 D  |
| XSF108 |             | CU 3 D  |
| XSF109 |             | CU 3 D  |
| XSF110 |             | CU 5 D  |
| XSF111 |             | CU 5 D  |
| XSF112 |             | CU 4 D  |
| XSF113 |             | CU 0 A  |

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| XSF114  |                                           | CU 0 A  |
| XSF115  |                                           | XG 3 A  |
| XSF116  |                                           | XG 3 B  |
| XSF117  |                                           | XG 4 A  |
| XSF118  |                                           | XG 4 B  |
| XSF119  |                                           | DN3 2 D |
| XSF120  |                                           | DN3 2 D |
| XSF121  |                                           | DN3 3 C |
| XSF122  |                                           | DN3 2 C |
| XSF123  |                                           | DN3 3 D |
| XSF150  |                                           | XH 2 C  |
| XSF151  |                                           | XH 2 D  |
| XSF152  |                                           | XH 2 B  |
| XSF153  |                                           | XH 2 B  |
| XSF155  |                                           | XH 3 D  |
| XSL10   |                                           | CU 3 A  |
| XSL11   |                                           | CU 3 A  |
| XSL12   |                                           | CU 2 A  |
| XSL13   |                                           | CU 2 A  |
| XSM02   |                                           | ZC 0 C  |
| XSN01   |                                           | BA 2 A  |
| XSU25   |                                           | AB 3 C  |
| XU25:1  |                                           | AC 2 D  |
| XU25:2  |                                           | AC 2 C  |
| XU25:3  |                                           | AC 2 D  |
| XU25:4  |                                           | AC 2 D  |
| XU25:5  |                                           | AC 2 D  |
| Y02     | Solenoid valve,Differential lock,rear whe | EP 1 C  |
| Y25     | Solenoid valve unit, ECS, Rear axle       | FA 5 C  |
| Y36     | Solenid valve,Steerable axle,Bogie        | BB 0 B  |
| Y37     | Solenoid valve AVU, engine brake / EPG (E | CS 1 D  |
| Y40     | Solenoid valve unit, ECS, Front axle      | FA 4 B  |
| Y72     | Valve, Horn                               | IS 3 C  |
| Y900    | solenoid valve unit, ECS, Bogie axle      | FA 2 C  |
| Y901    | Fuel cut off valve front axle             | NA 5 C  |
| Y911    | sol_valve_inj_SCRT_DNOX2                  | CU 3 D  |
| Y911_10 | sol valve DEF inj.                        | CX 2 A  |
| Y912    | sol_valve_adblue_tank_heating_SCRT_DNOX2  | CU 4 B  |
| Y912_US | Sol_Valve_Heating_Urea_Tank               | CX 3 B  |
| Y914    | Pressure control valve(PCU/R)             | EP 5 C  |
| Y915    | Pressure controll valve (PCU/R)           | EP 5 C  |
| Y939    | Solenoid Valve AHI                        | BA 2 A  |

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