



**Volvo Bus Corporation**

# **VOLVO 9700**

## **US/CAN**

**WIRING DIAGRAM  
HEATING SYSTEM  
PNEUMATIC SYSTEM**

**Chassis number  
B13R\_158966\_ENG**



## Volvo Bus Corporation

### Documents Description

| Document | Issue | Description                                                          |
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| 21894999 | 2     | Wiring Diagram, BEA-Body 9700-DOT                                    |
| 21253835 | 3     | Central Power Distribution and Relays Unit                           |
| 21610203 | 2     | Localization Scheme; Electrical Distribute Unit (EC Cooper Bussmann) |
| 21334046 | 3     | Electrical Distribute Unit (EC Cooper Bussmann)                      |
| 21375565 | 3     | Wiring Diagram Electrical Distribute (EC Cooper Bussmann)            |
| 21620921 | 3     | Localization Scheme; Master Control Module (MCM)                     |
| 21676172 | 2     | Localization Scheme; BEA2 Body Control Units                         |
| 21808778 | 3     | CA 110 V Outputs Installation Drawing                                |
| 22060360 | 1     | Dashboard                                                            |
| 21351112 | 3     | Heating System Main Valve                                            |
| 21455579 | 6     | Webasto Heating System Installation Drawing                          |
| 21289798 | 5     | Heating System Installation Drawing                                  |
| 70366809 | 10    | Pneumatic Control System Body                                        |
| 21997730 | 1     | Pneumatic System Body Installation Drawing                           |
| 21552753 | 8     | AFSS System Installation Drawing                                     |
| 21455567 | 3     | AFSS System                                                          |
| 21582655 | 2     | TPMS System Installation Drawing                                     |

RELEASED

|                                  |          |                    |                          |         |                                          |
|----------------------------------|----------|--------------------|--------------------------|---------|------------------------------------------|
| Engineering Release Notice (ERN) | Location | Change Description | A = Added<br>U = Deleted | W = Was | Document Release Status                  |
| D-15244-46                       |          | SEE DCN BODY       |                          |         | Date<br>2012-09-27<br>Modification Count |

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**WIRING DIAGRAM**  
**BEA – BODY 9700**

Document Type

**PRODUCT SCHEMATIC**

Owner Domain: Document Prefix

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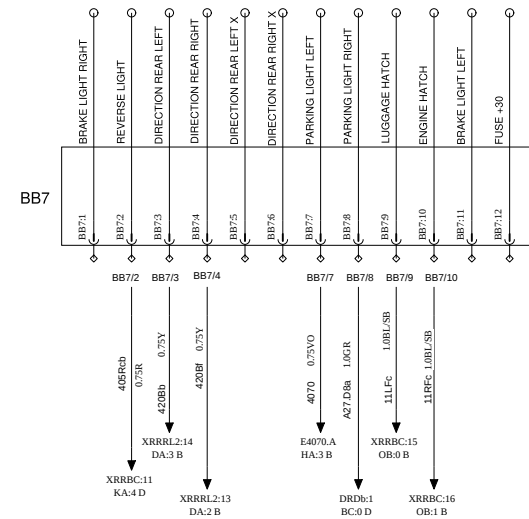
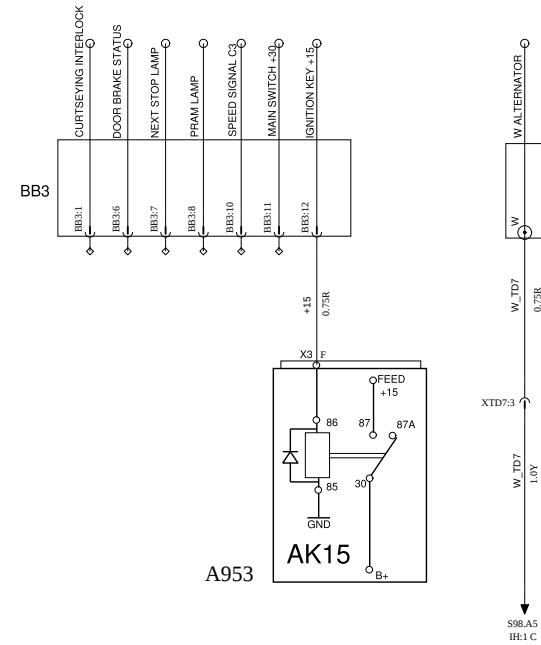
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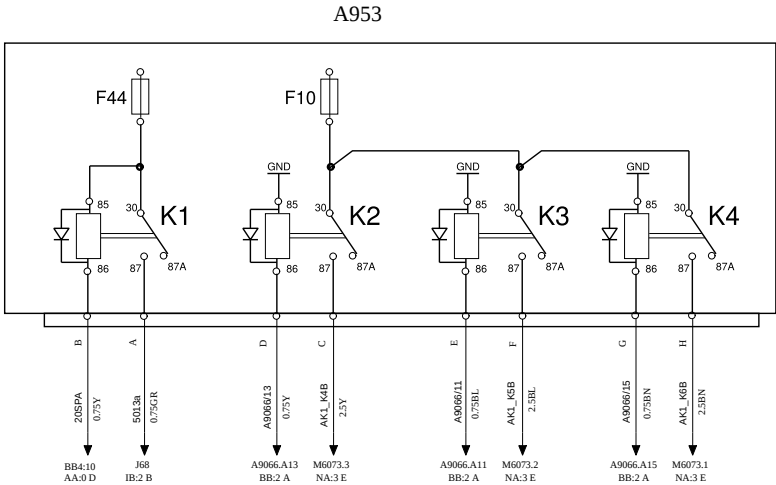
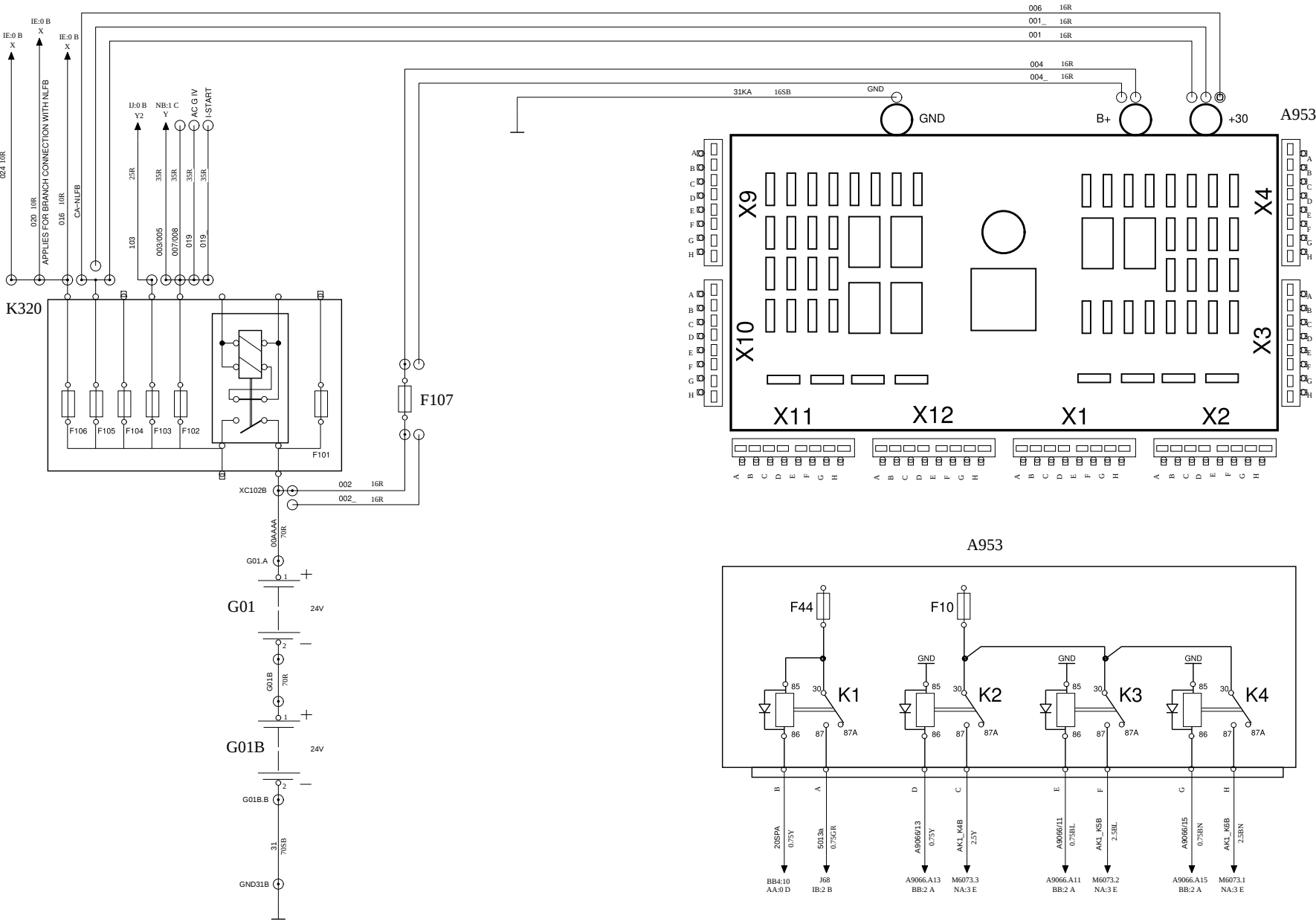
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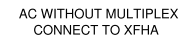


# ELECTRIC CENTER

# AB

# WIRING DIAGRAM





## A9066



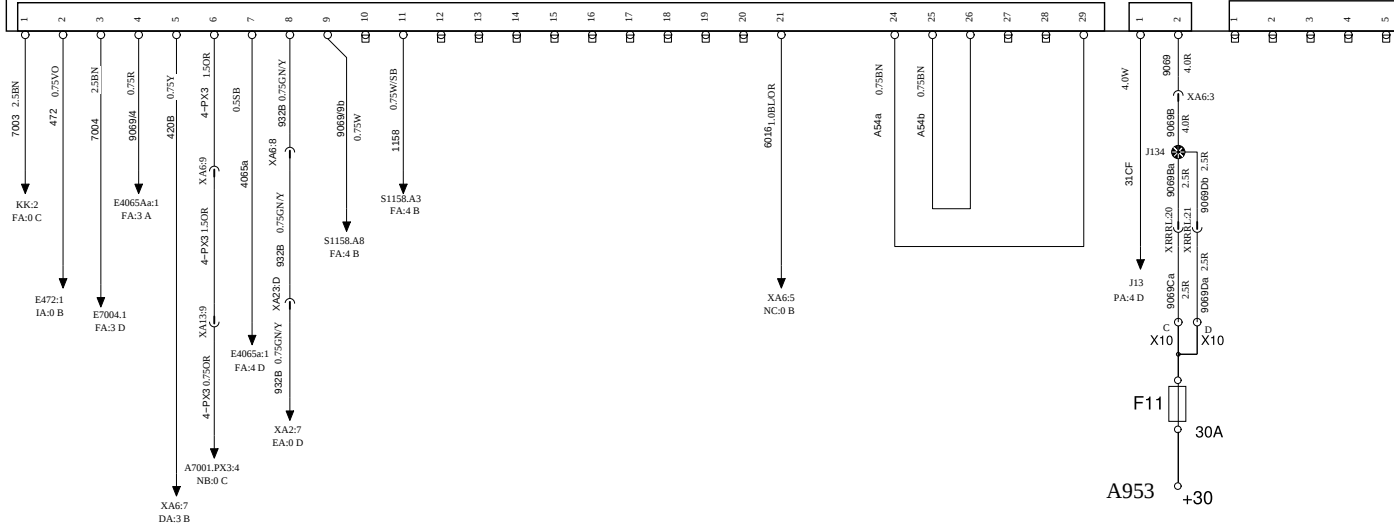
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## I/O-B

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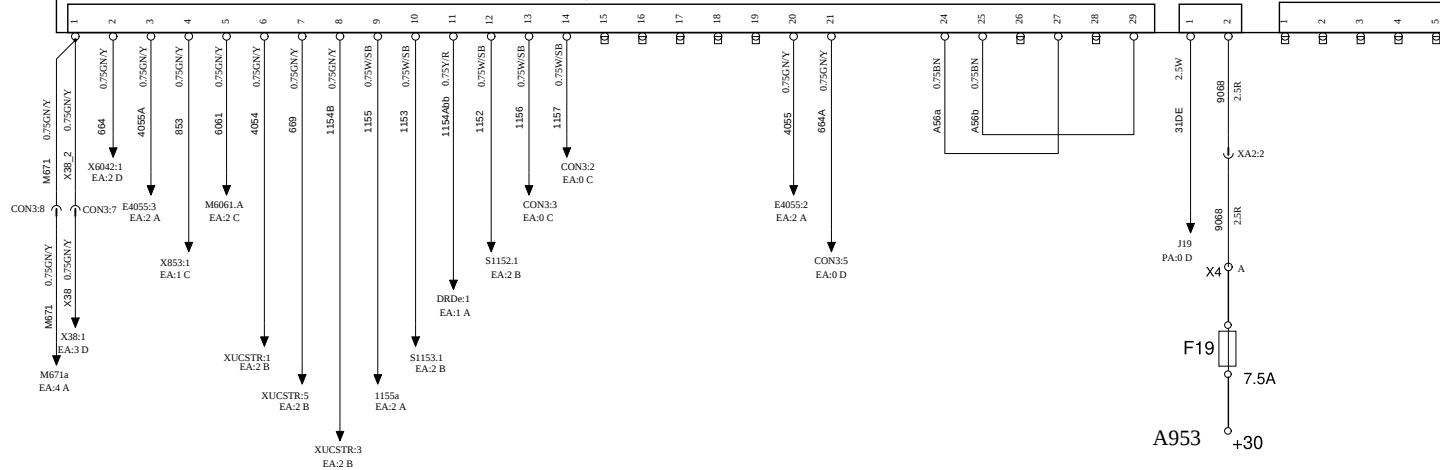
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## I/O-B

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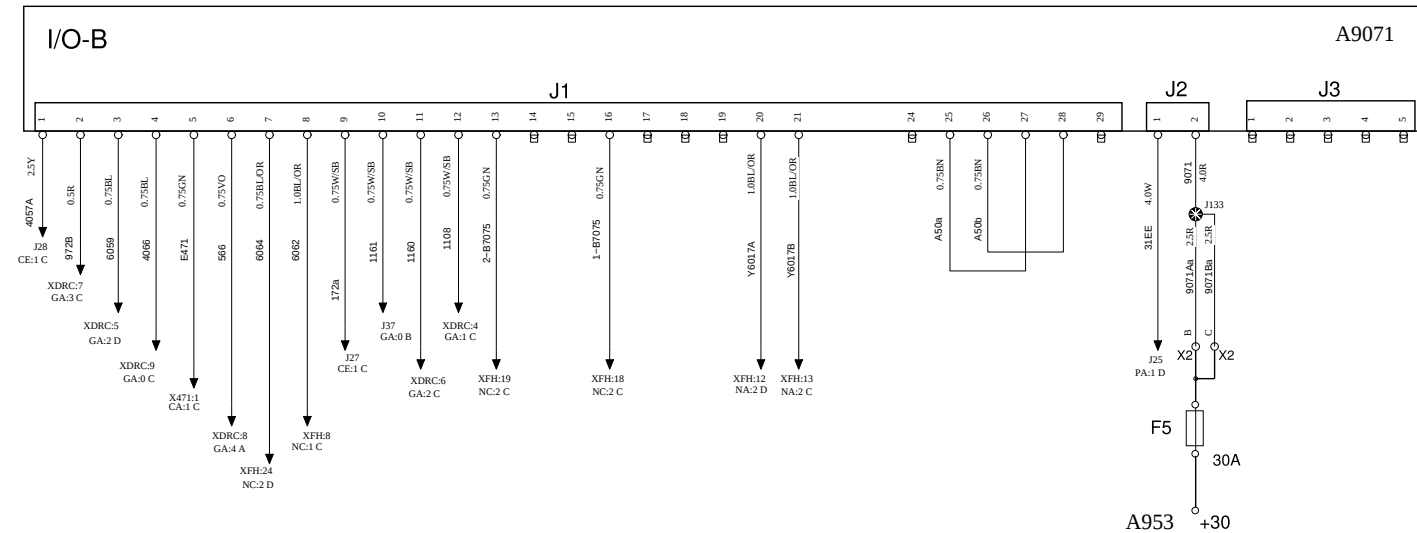
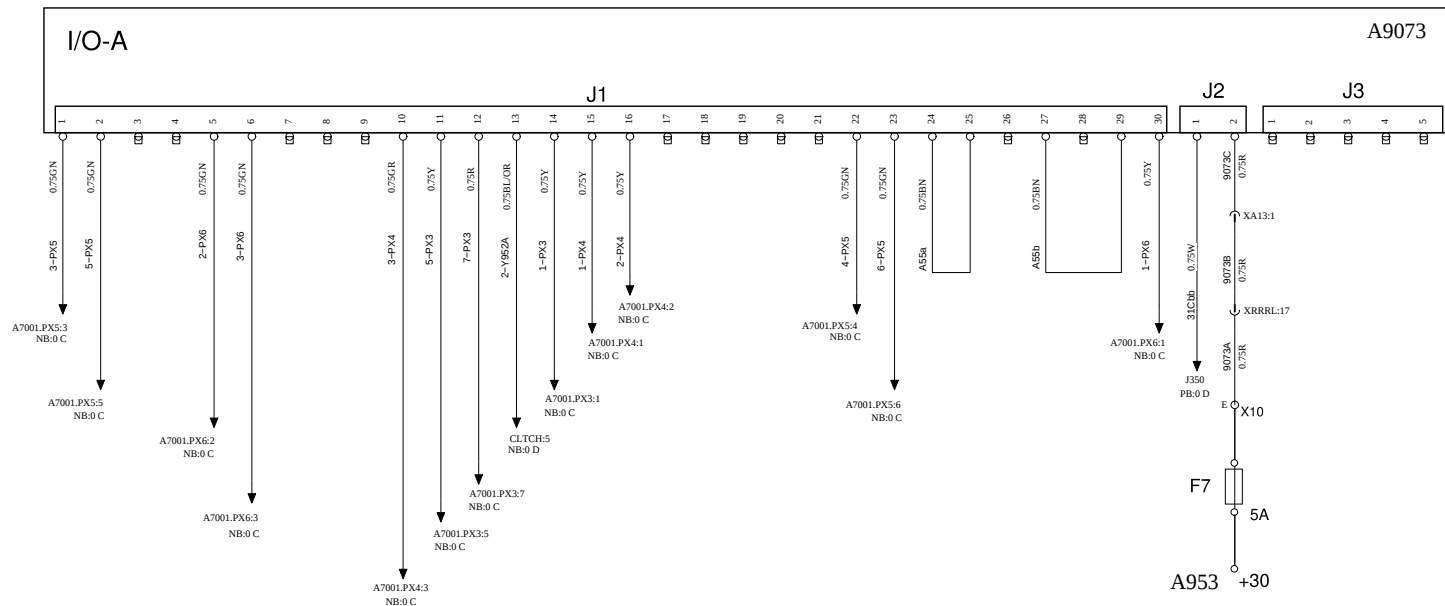
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## CONTROL MODULES

## BE

## WIRING DIAGRAM

CONTROL UNIT I/O-B  
FLOORCONTROL UNIT I/O-A  
CLIMATE CONTROL**VOLVO**

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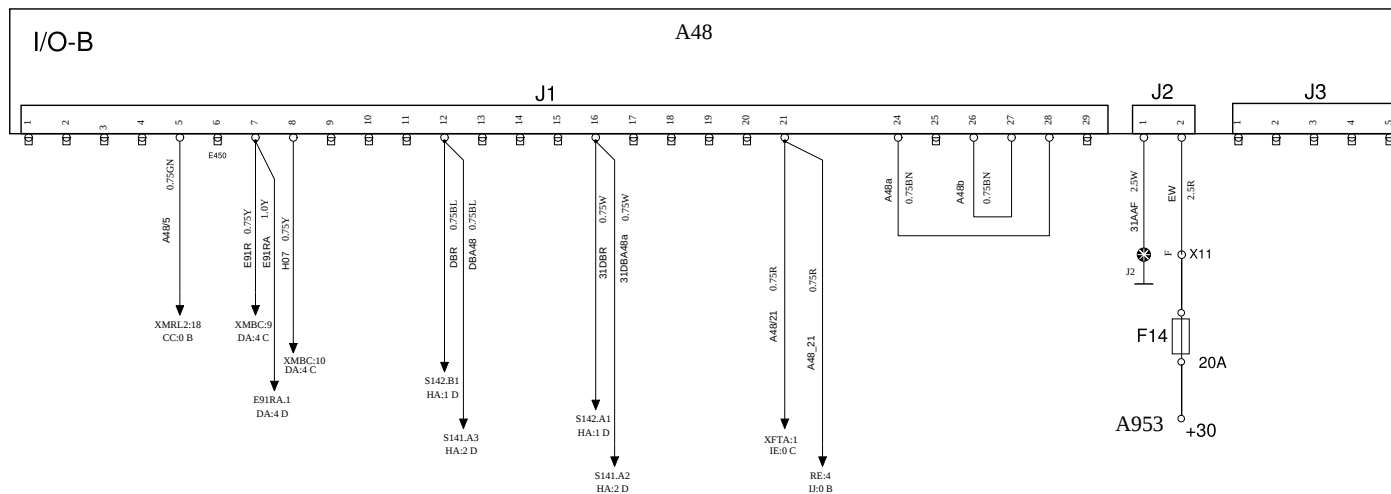
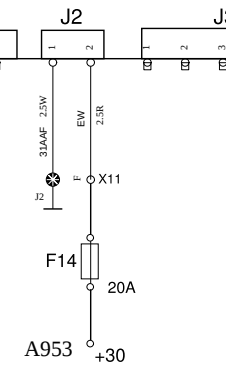
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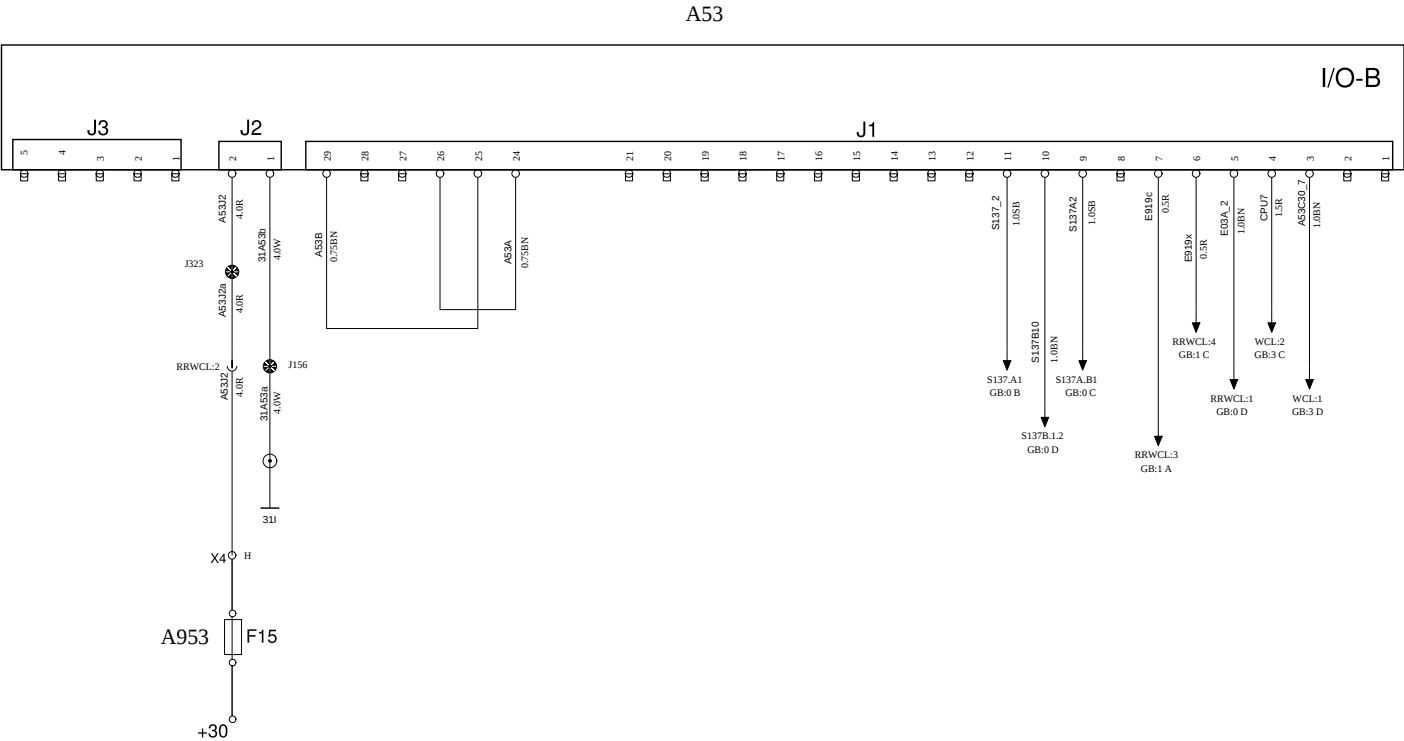
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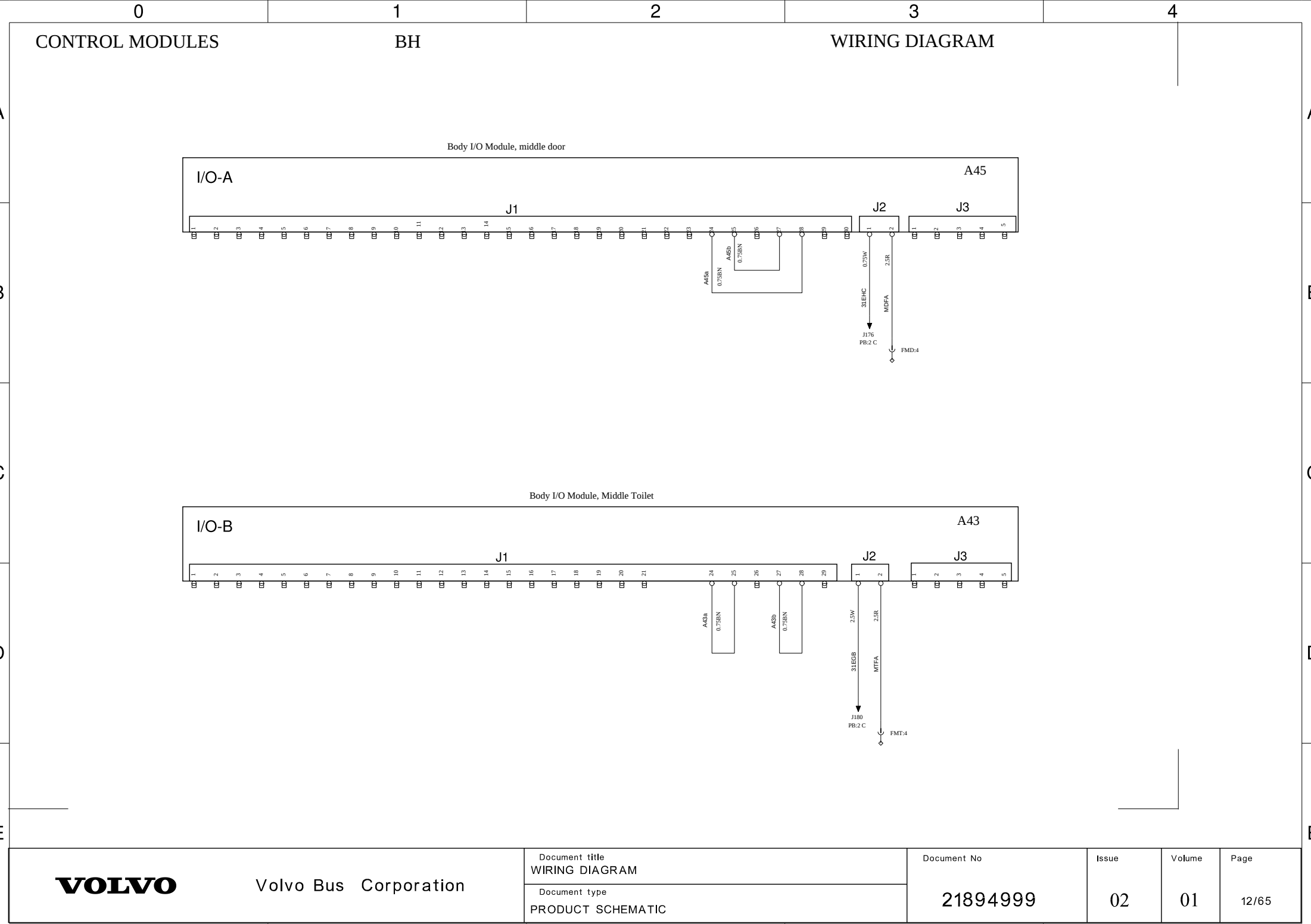
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# LIGHT UNDER SEATS

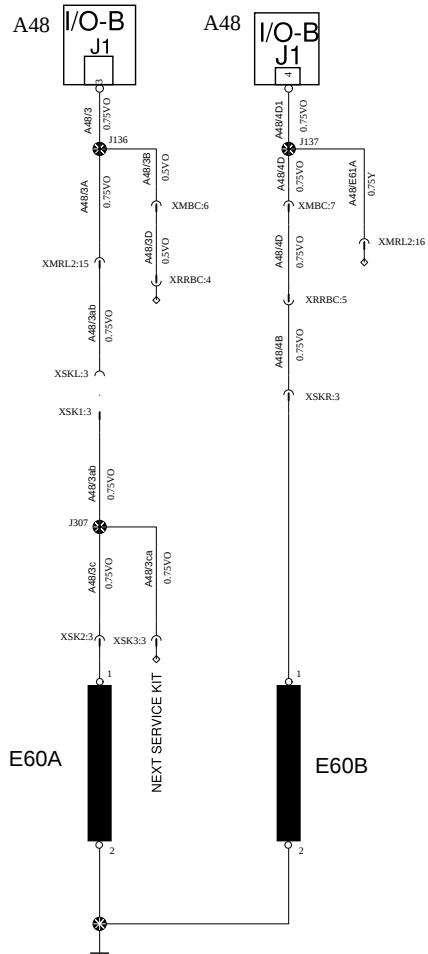
# CA

## SEAT NIGHT LIGHT

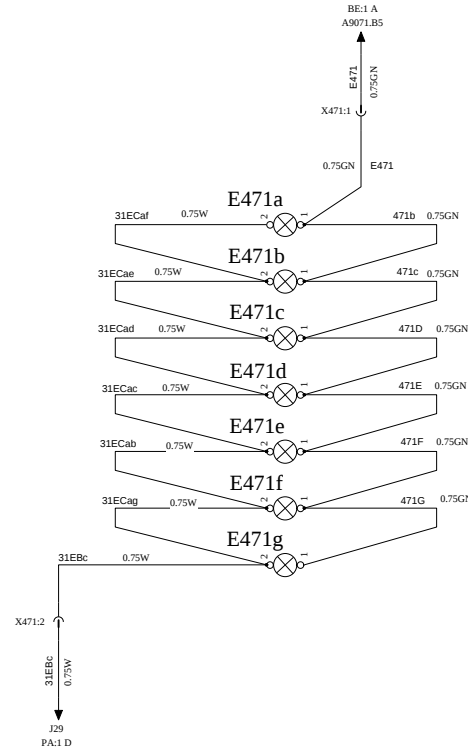
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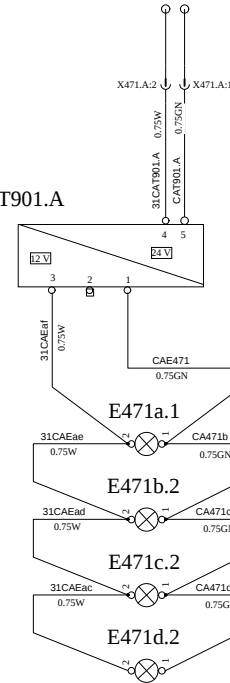
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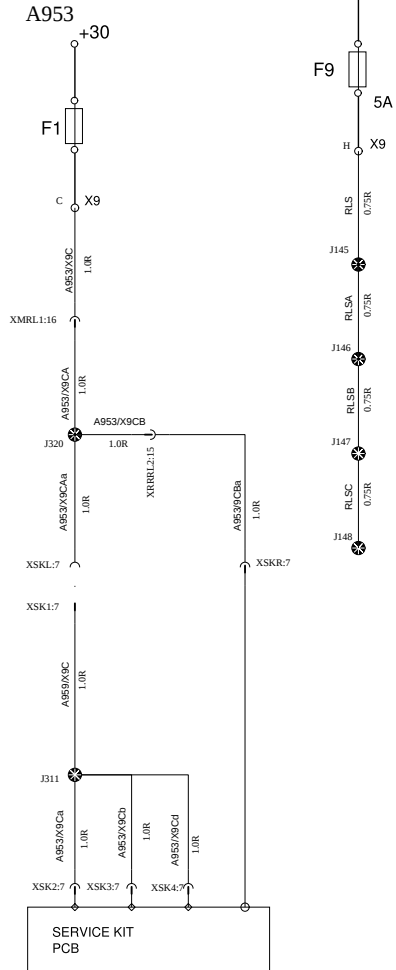
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T901.A



### MAIN SWITCH SIGNAL



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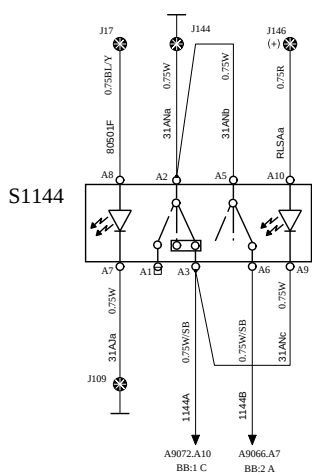
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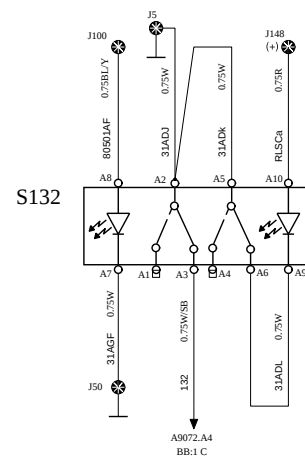
# CB

# WIRING DIAGRAM

DRIVER & GUIDE LIGHT

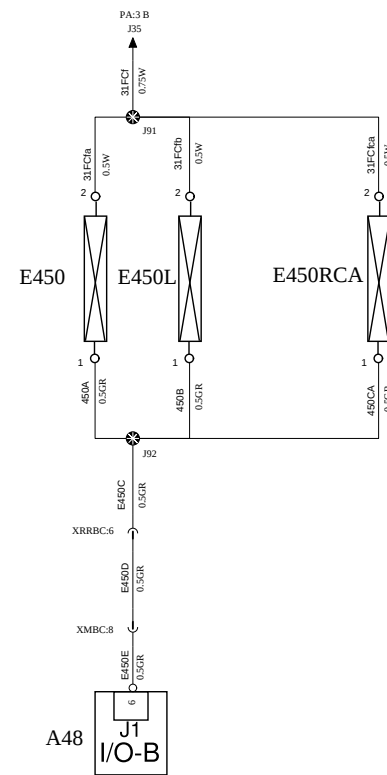
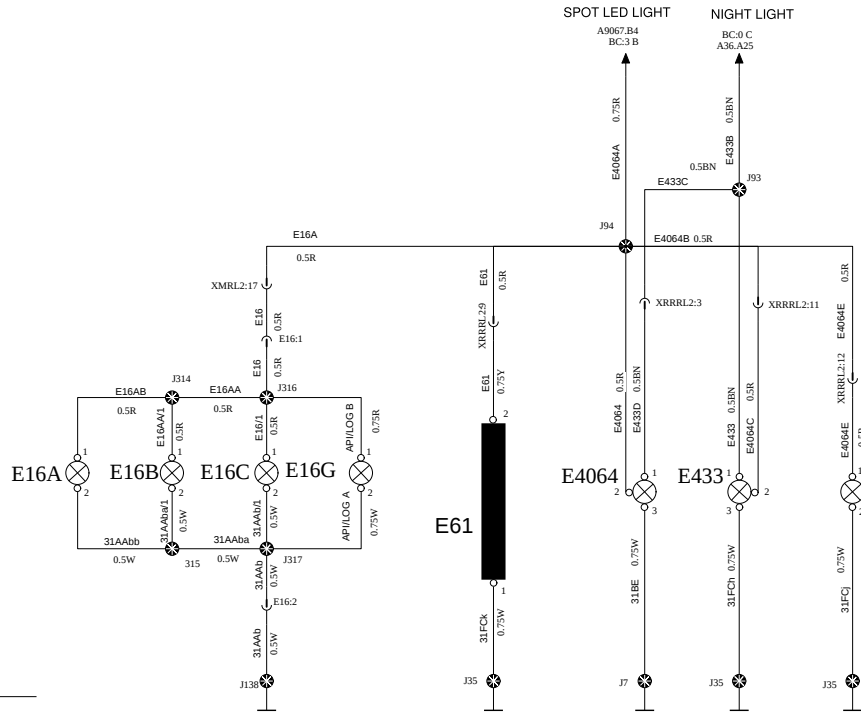


DESTINATION SIGN LIGHT



SPOT LED LIGHT

NIGHT LIGHT



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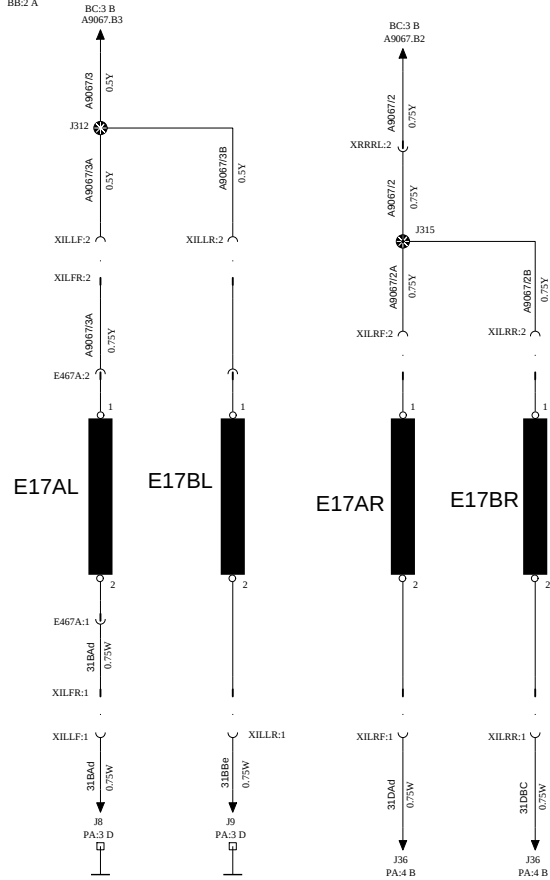
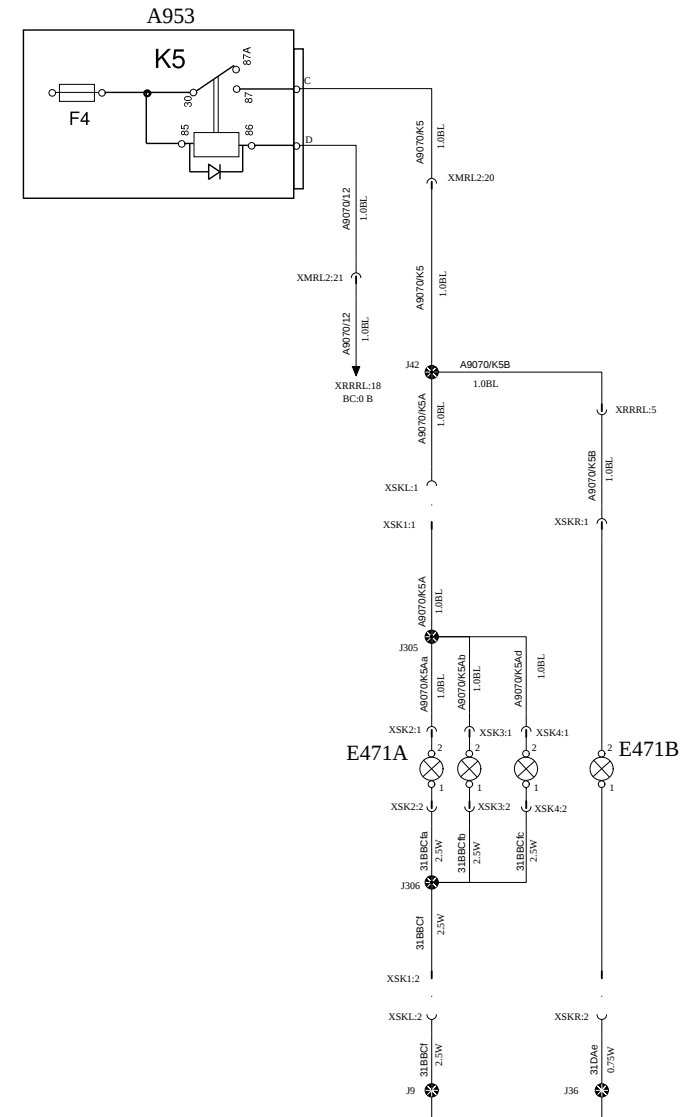
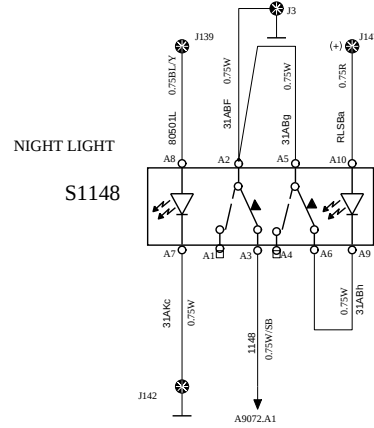
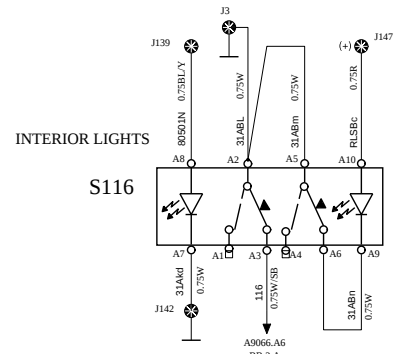
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## INTERIOR LIGHT AND NIGHT LIGHT PASSENGERS CD

## WIRING DIAGRAM



LUGGAGE LIGHTS

CE

WIRING DIAGRAM

A

B

C

D

E

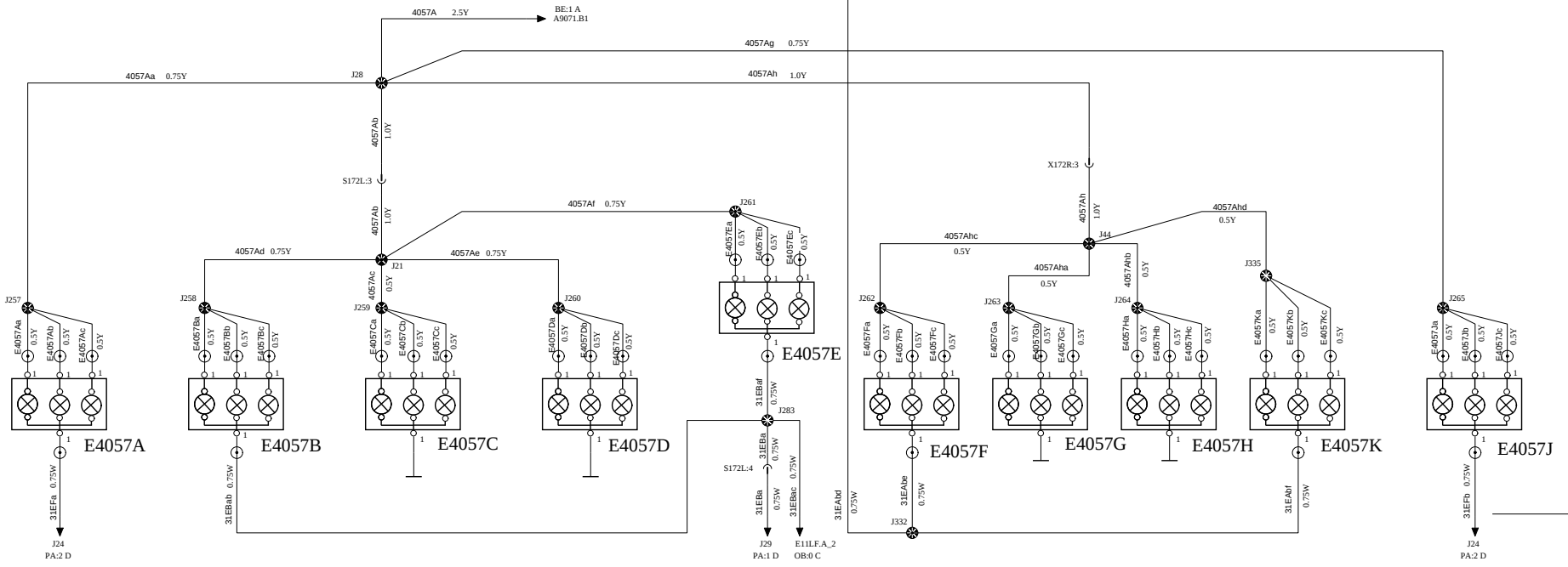
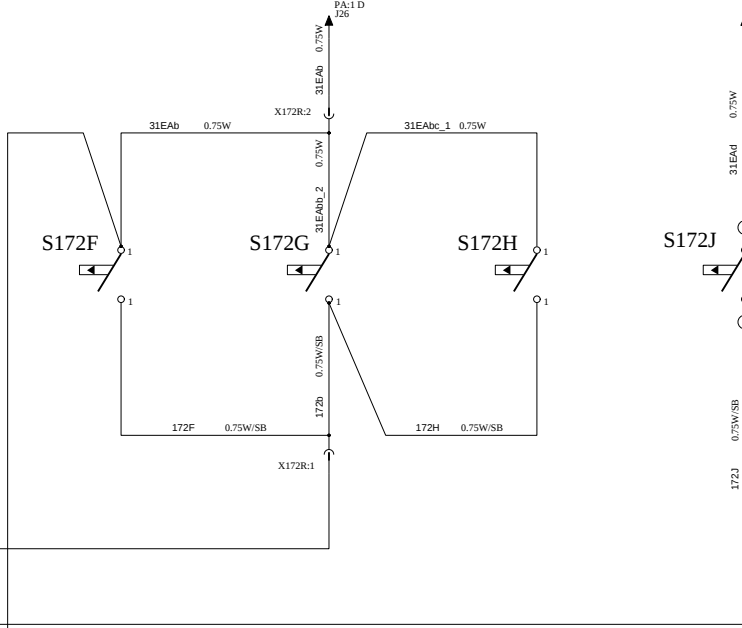
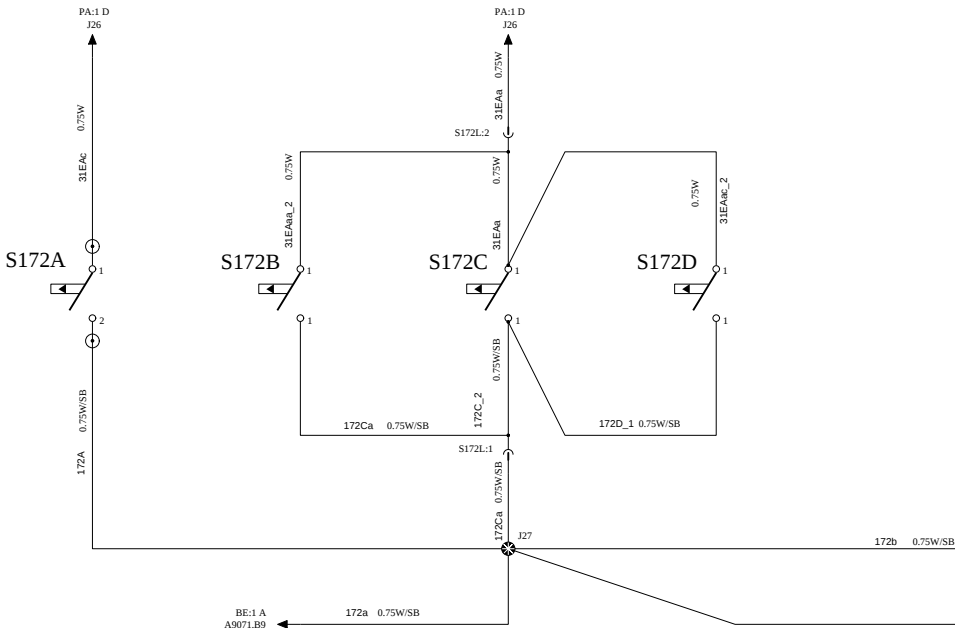
A

B

C

D

E



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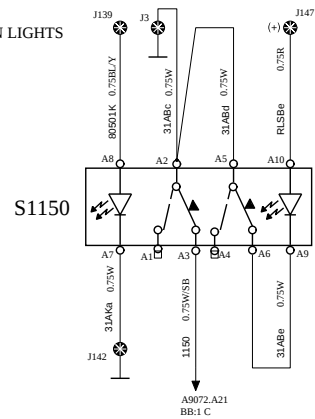
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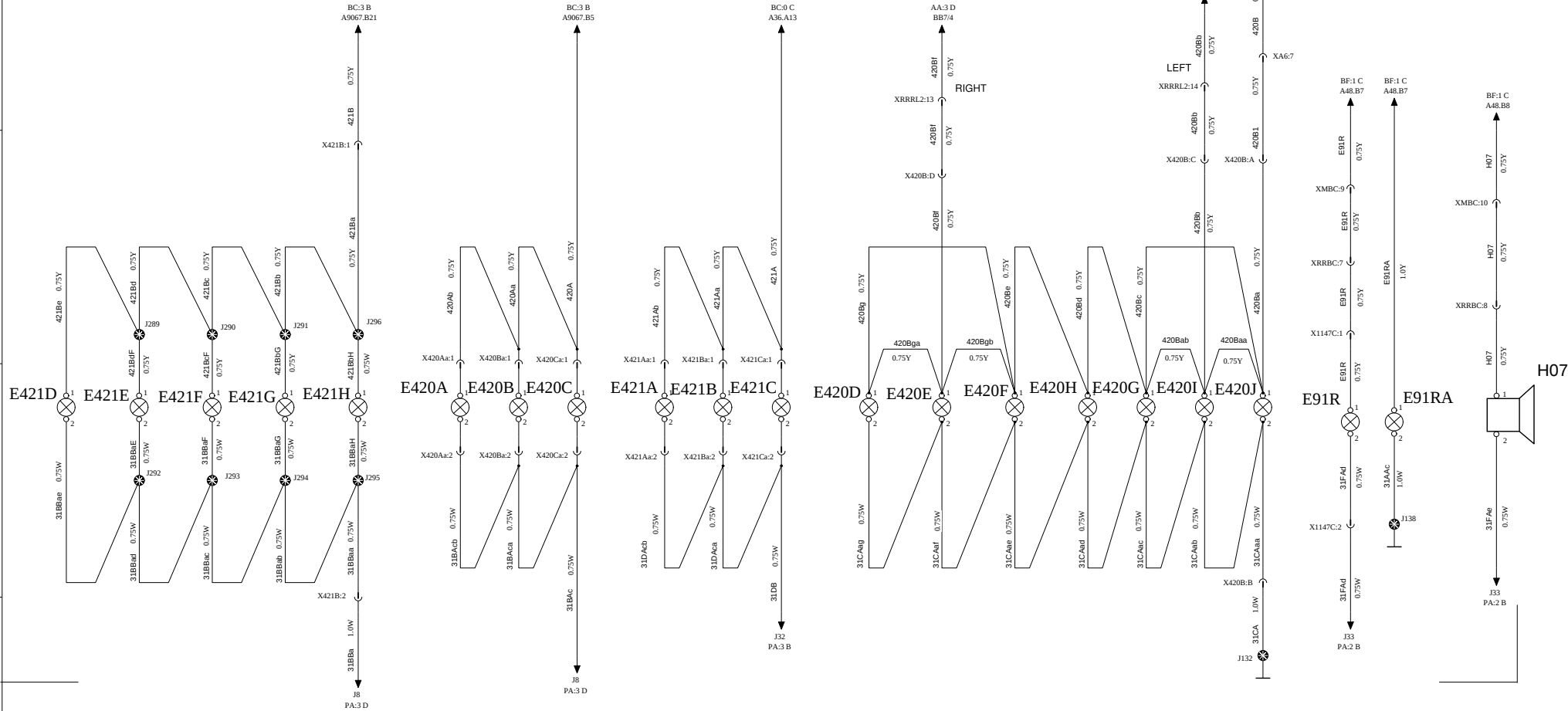
## POSITION LIGHTS

## DA

## POSITION LIGHTS



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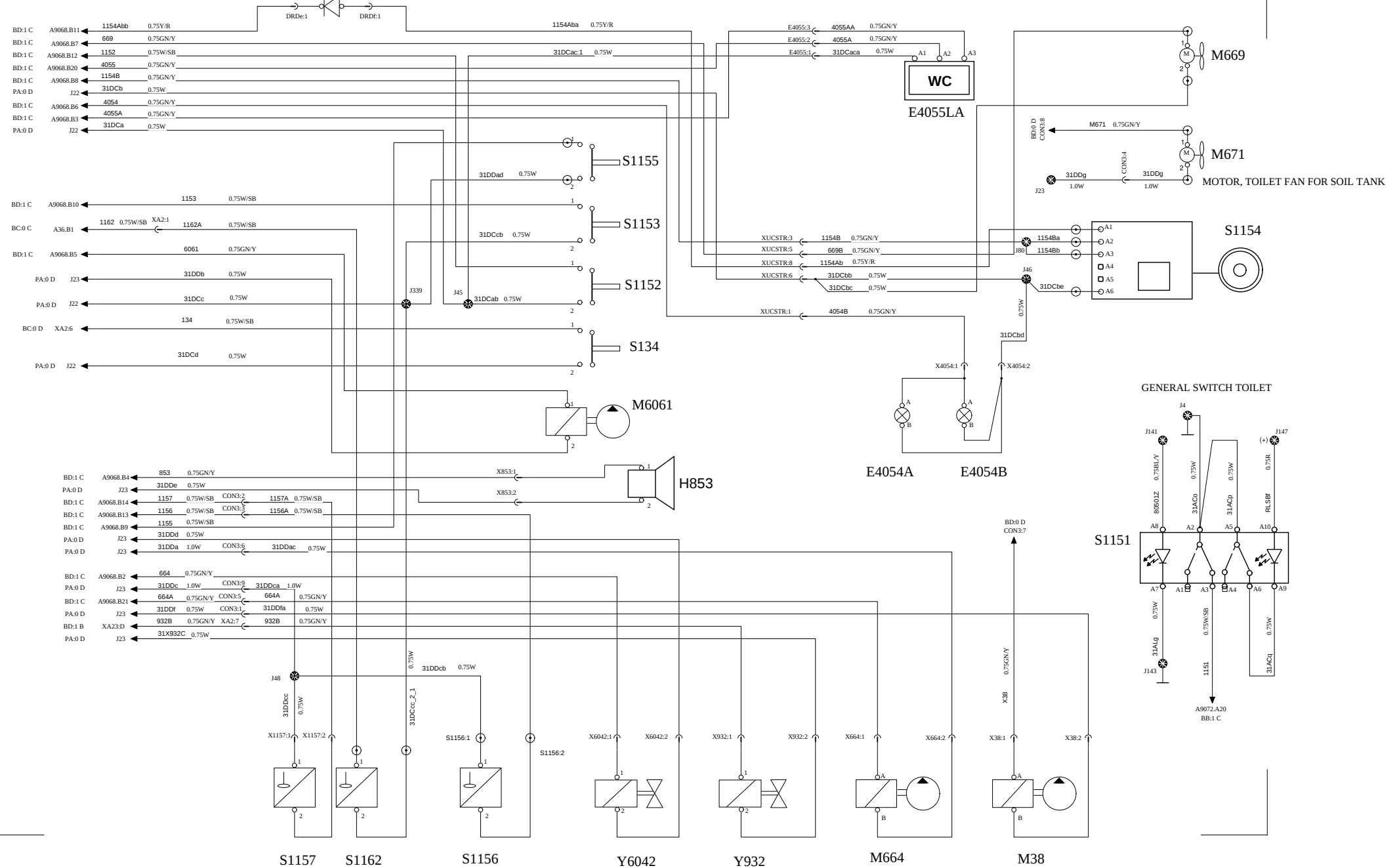


TOILET

## DRDb

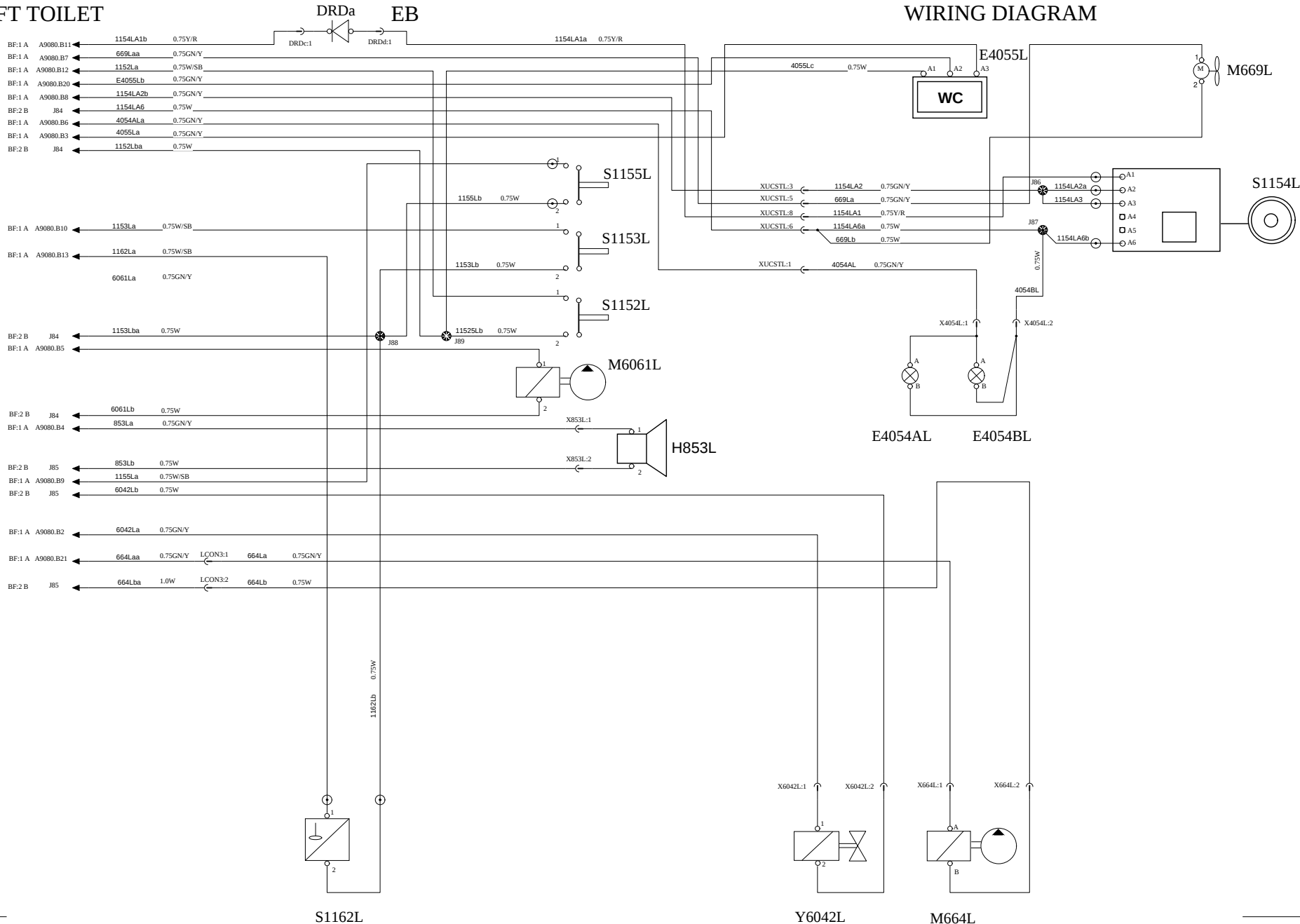
EA

## WIRING DIAGRAM



# LEFT TOILET

# WIRING DIAGRAM



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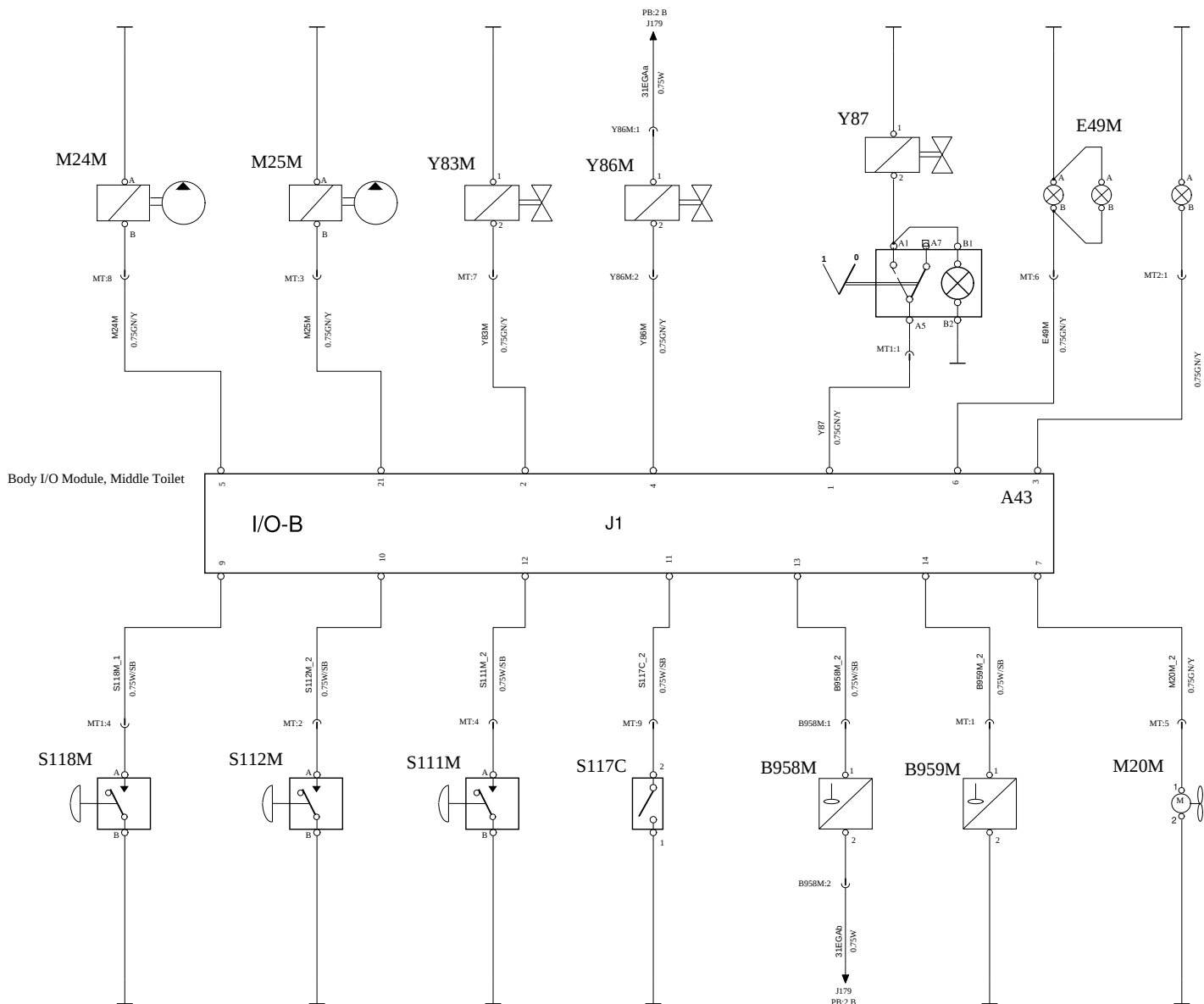
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MIDDLE TOILET

EC

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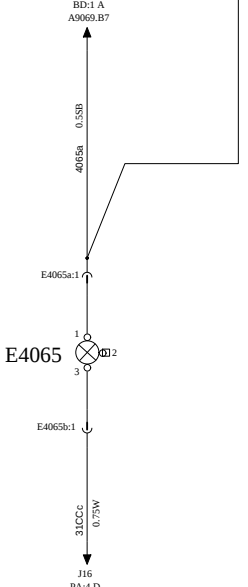
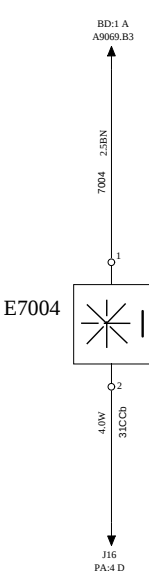
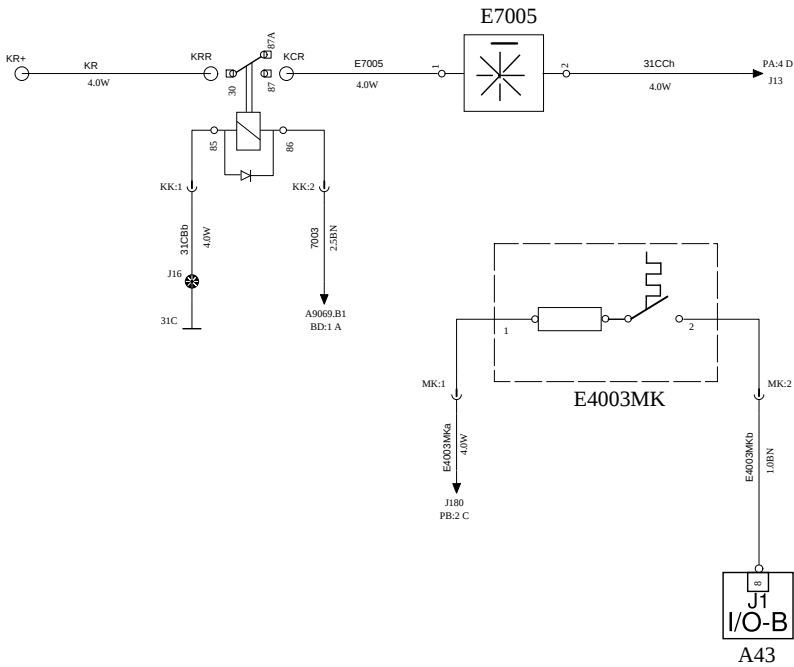
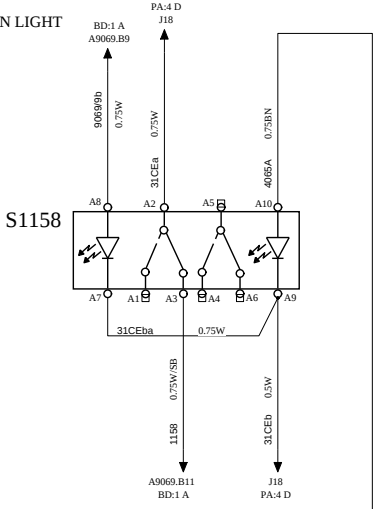
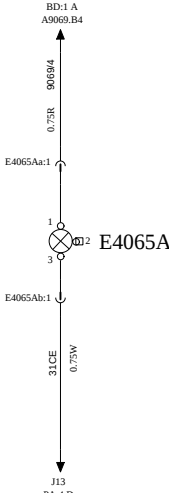
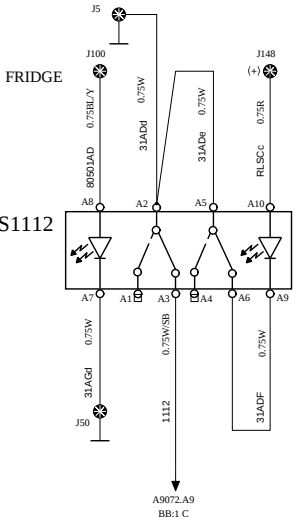
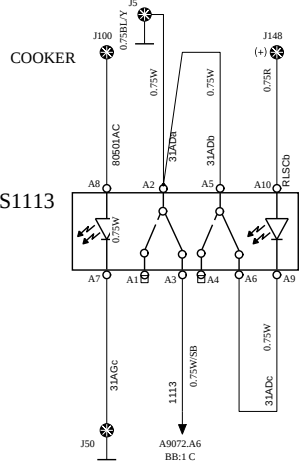
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KITCHEN

FA

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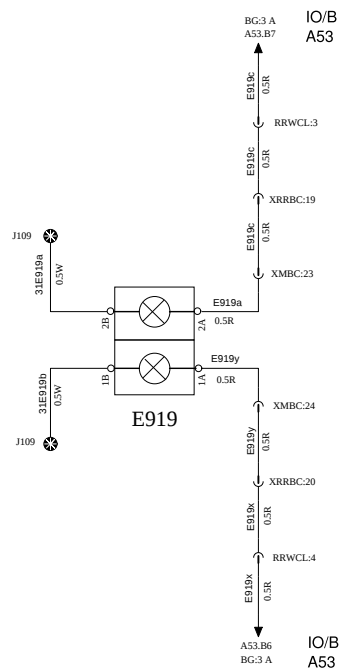
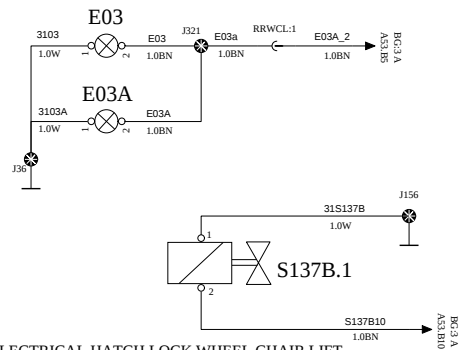
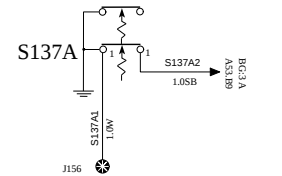
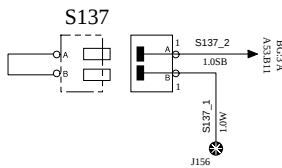
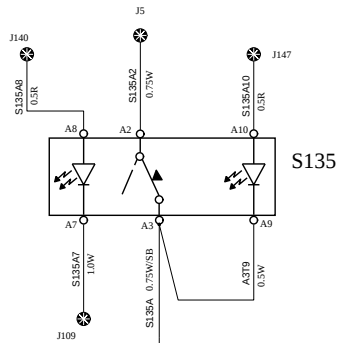
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# WHEEL CHAIR LIFT

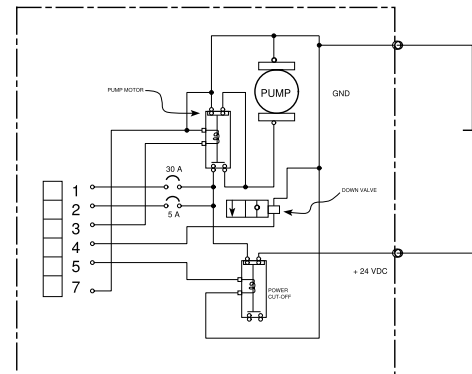
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# WIRING DIAGRAM

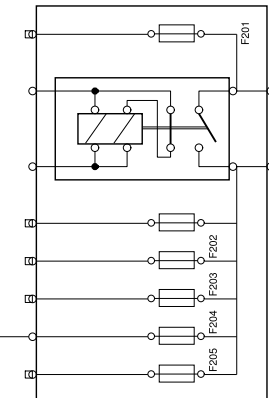


ELECTRICAL HATCH LOCK WHEEL CHAIR LIFT

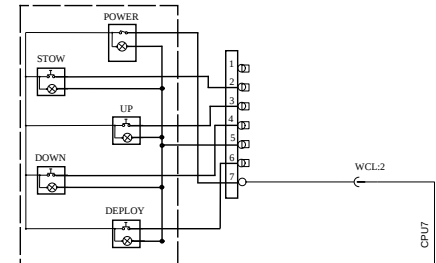
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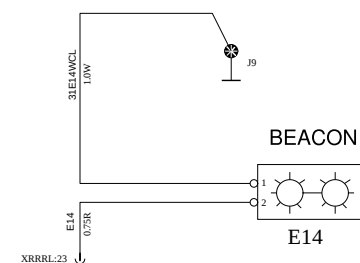
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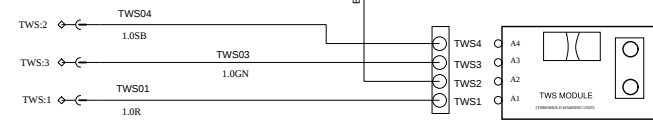
IO/B A53

IO/B A53

## BEACON



E14



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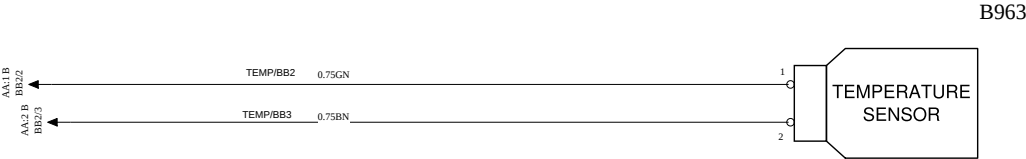
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TEMPERATURE SENSOR US10

GC

WIRING DIAGRAM



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DOOR CONTROL

HA

WIRING DIAGRAM

SERVICE DOOR

DOOR LOCK

S9074

S9075



S1147B

S9076

S1115

S1107

F28

A953

DOOR BRAKE

S141

S142

SWITCH DOOR BRAKE HIGH IDLE

Y6015

E4070



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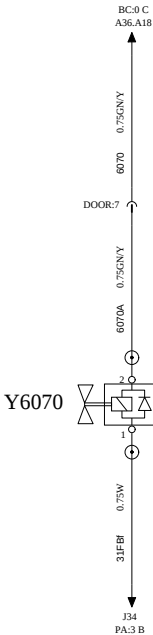
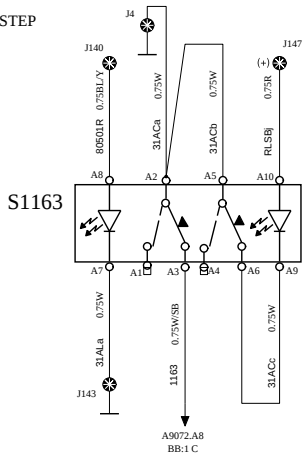
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FOLDING STEP & TELLTALES

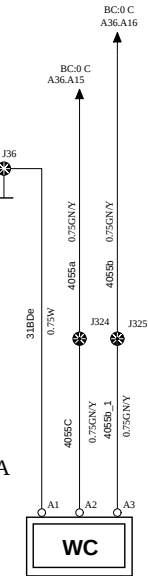
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WIRING DIAGRAM

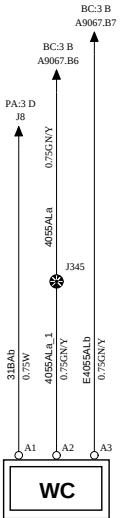
AUXILIARY STEP



E4055A



E4055AL



Volvo Bus Corporation

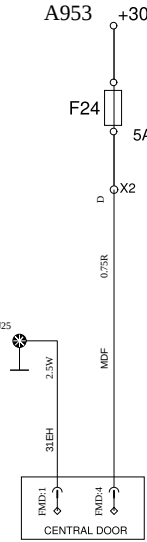
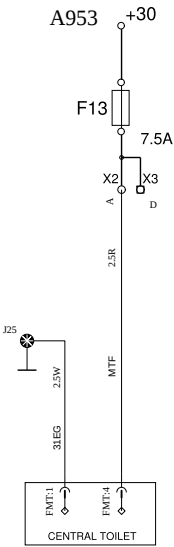
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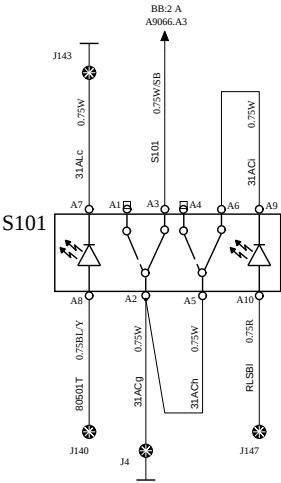
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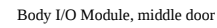
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Switch, Middle Door

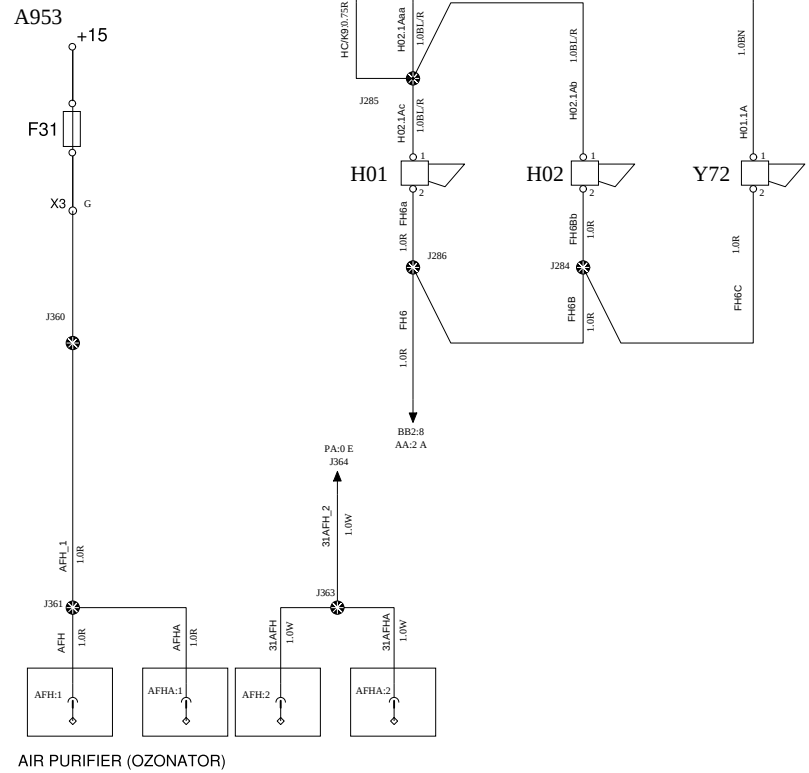
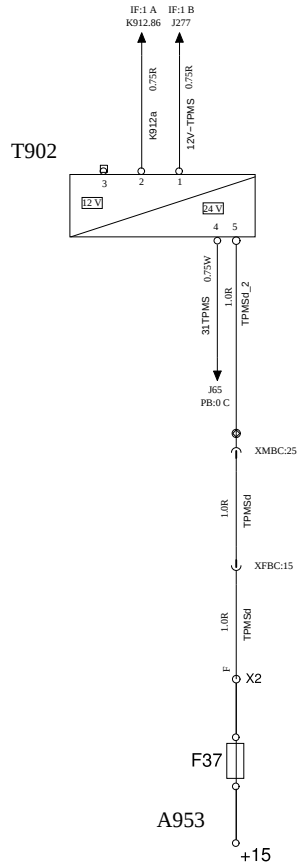
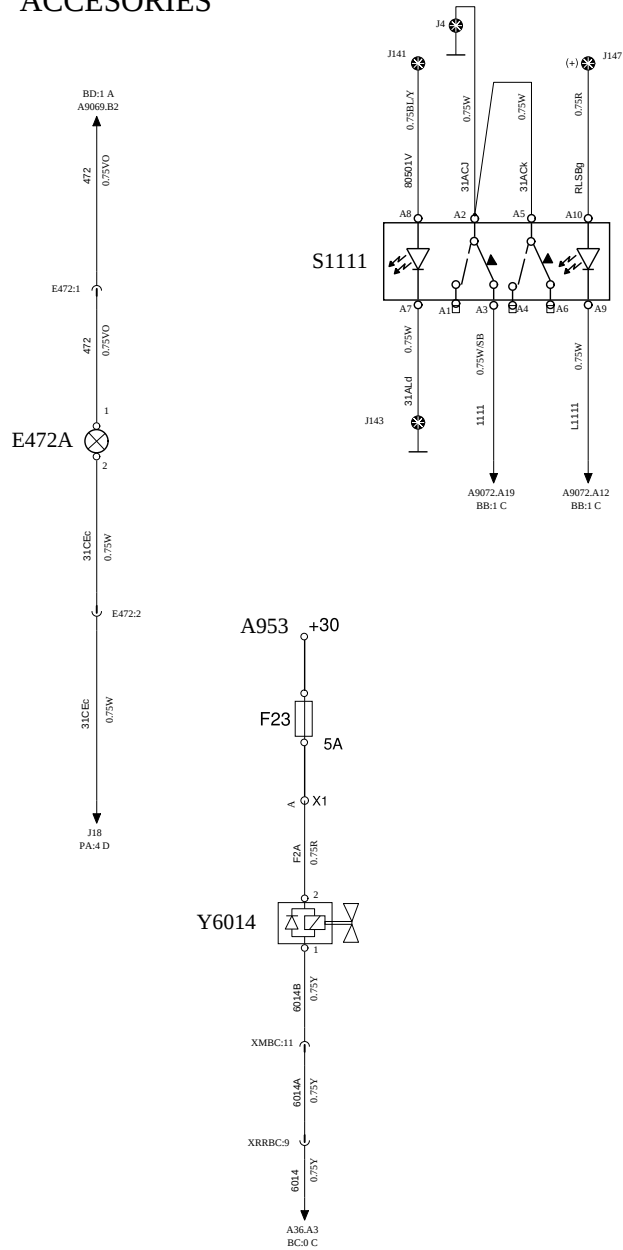




ACCESORIES

IA

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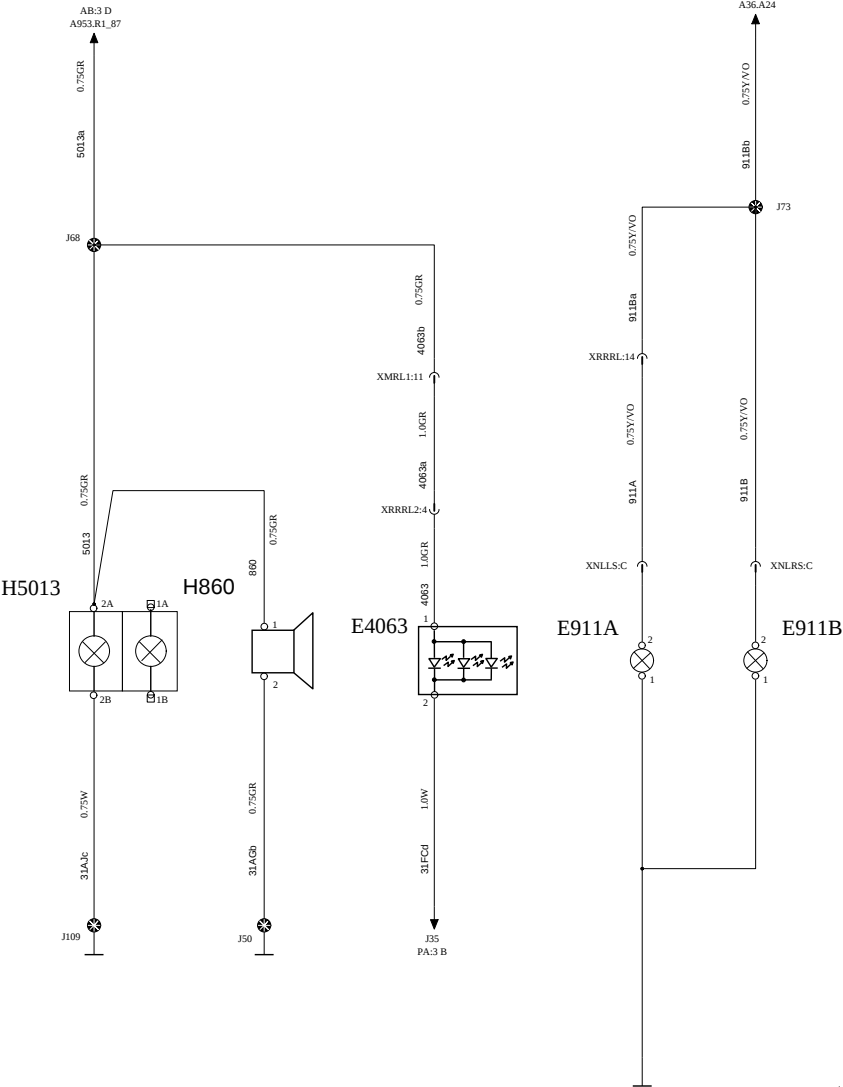
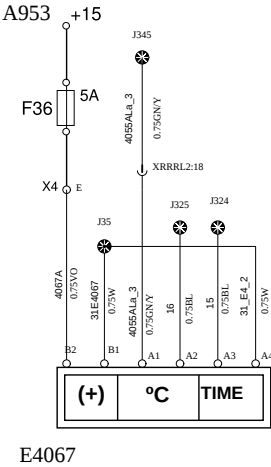
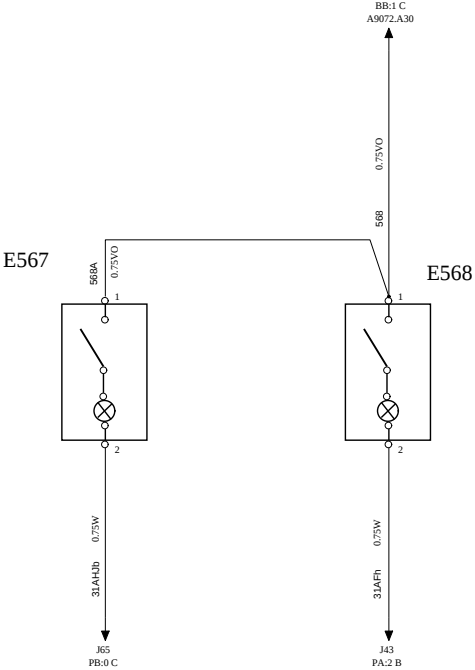
ACCESORIES

IB

WIRING DIAGRAM

SNAKE LAMP, ELECTRIC CENTRE

SNAKE LAMP, MAP LIGHT



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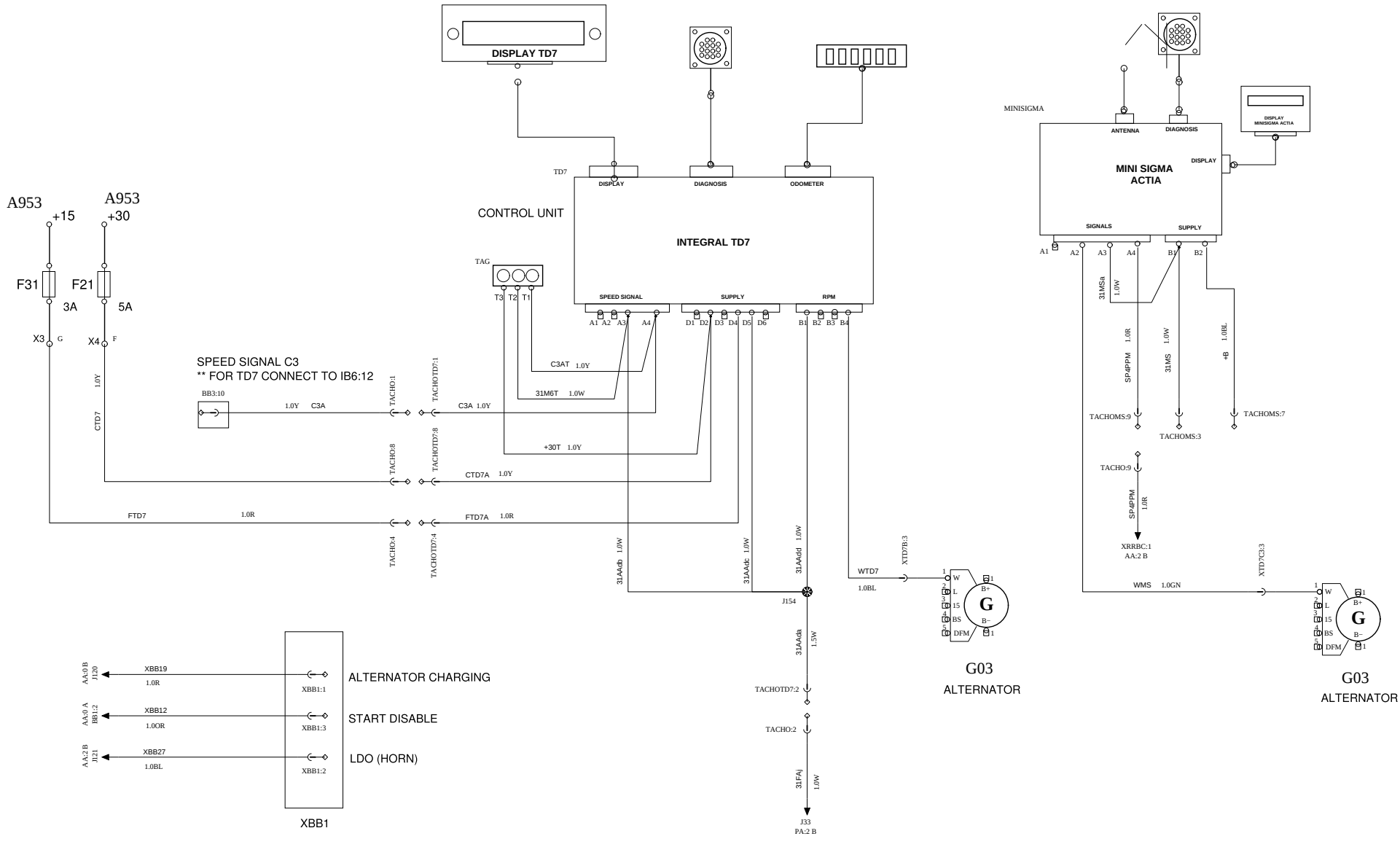
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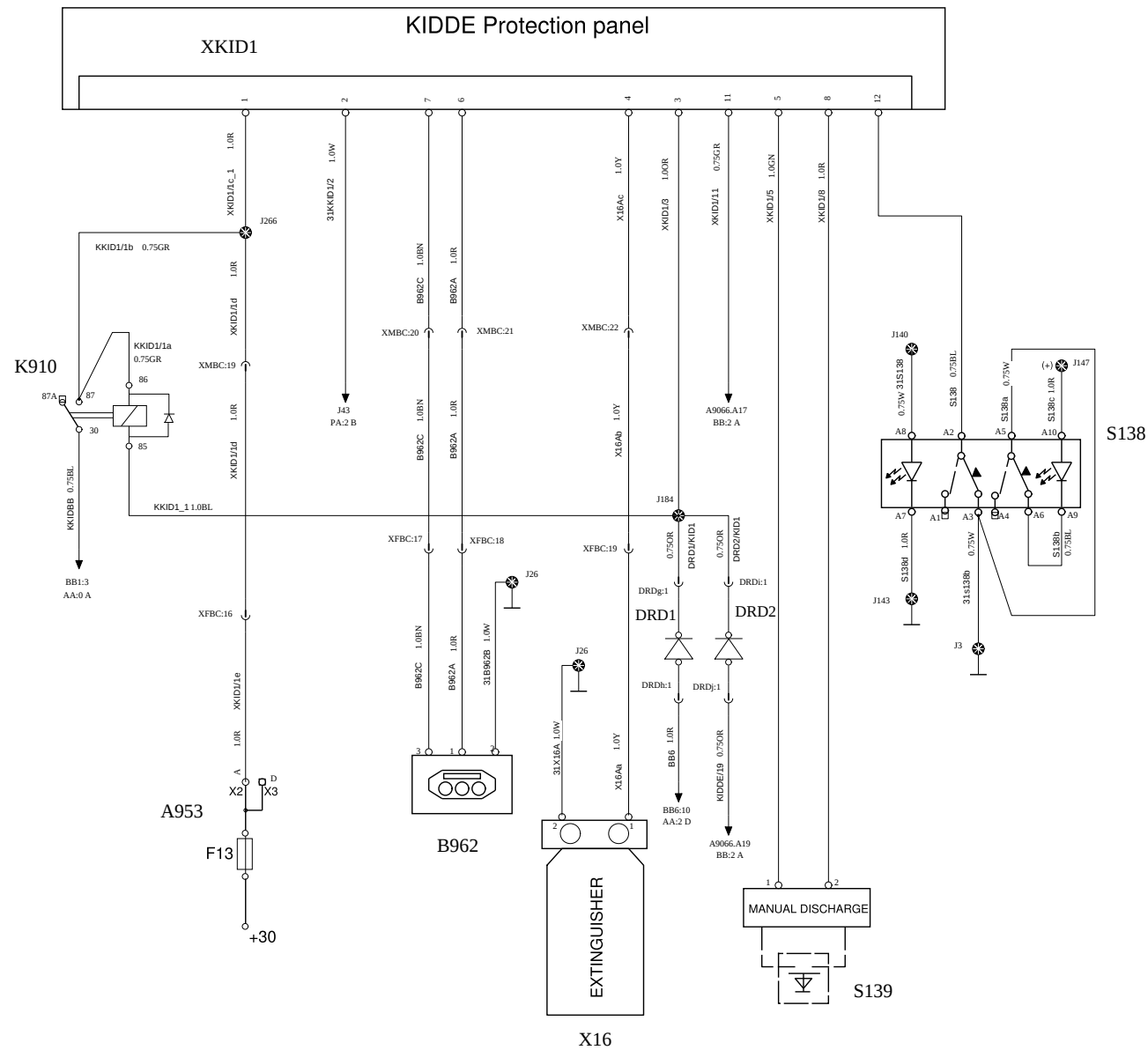
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TD7 TACHOGRAPH

IC

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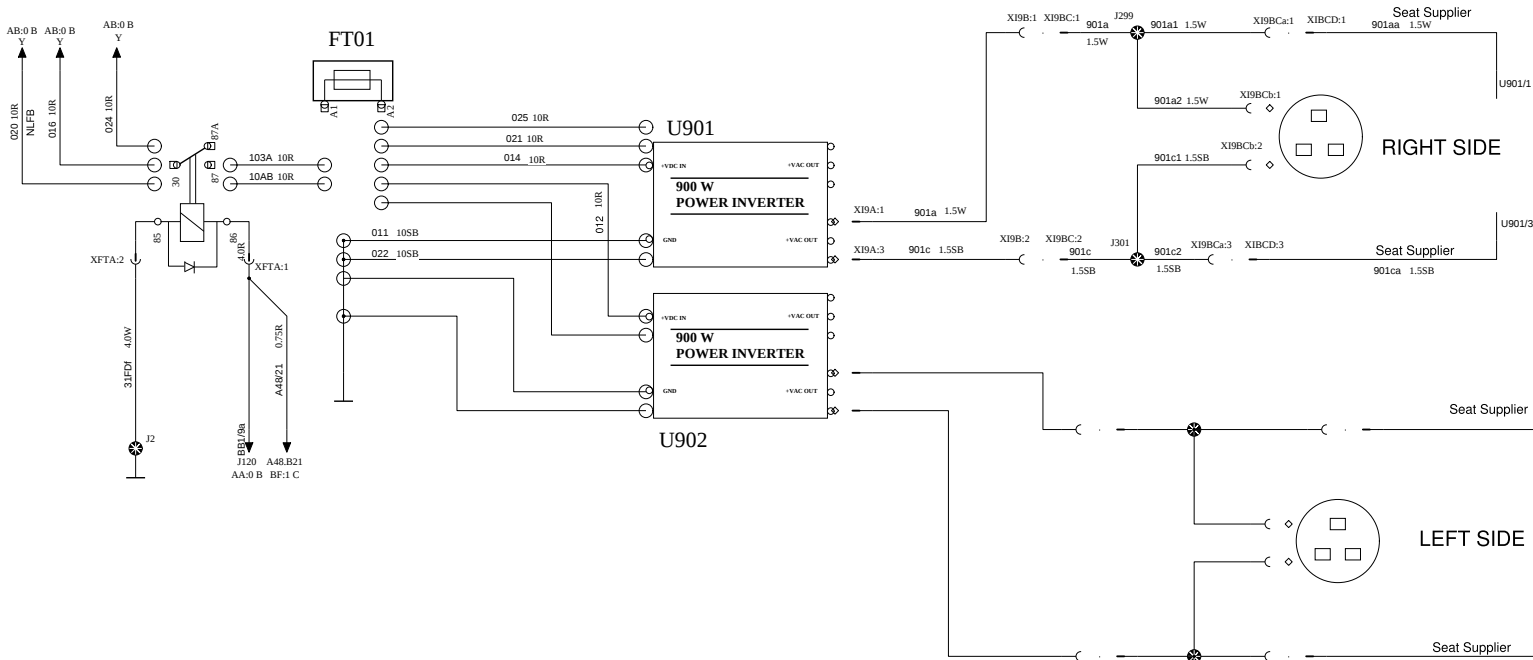




NOTEBOOK AC SUPPLY CONNECTION

IE

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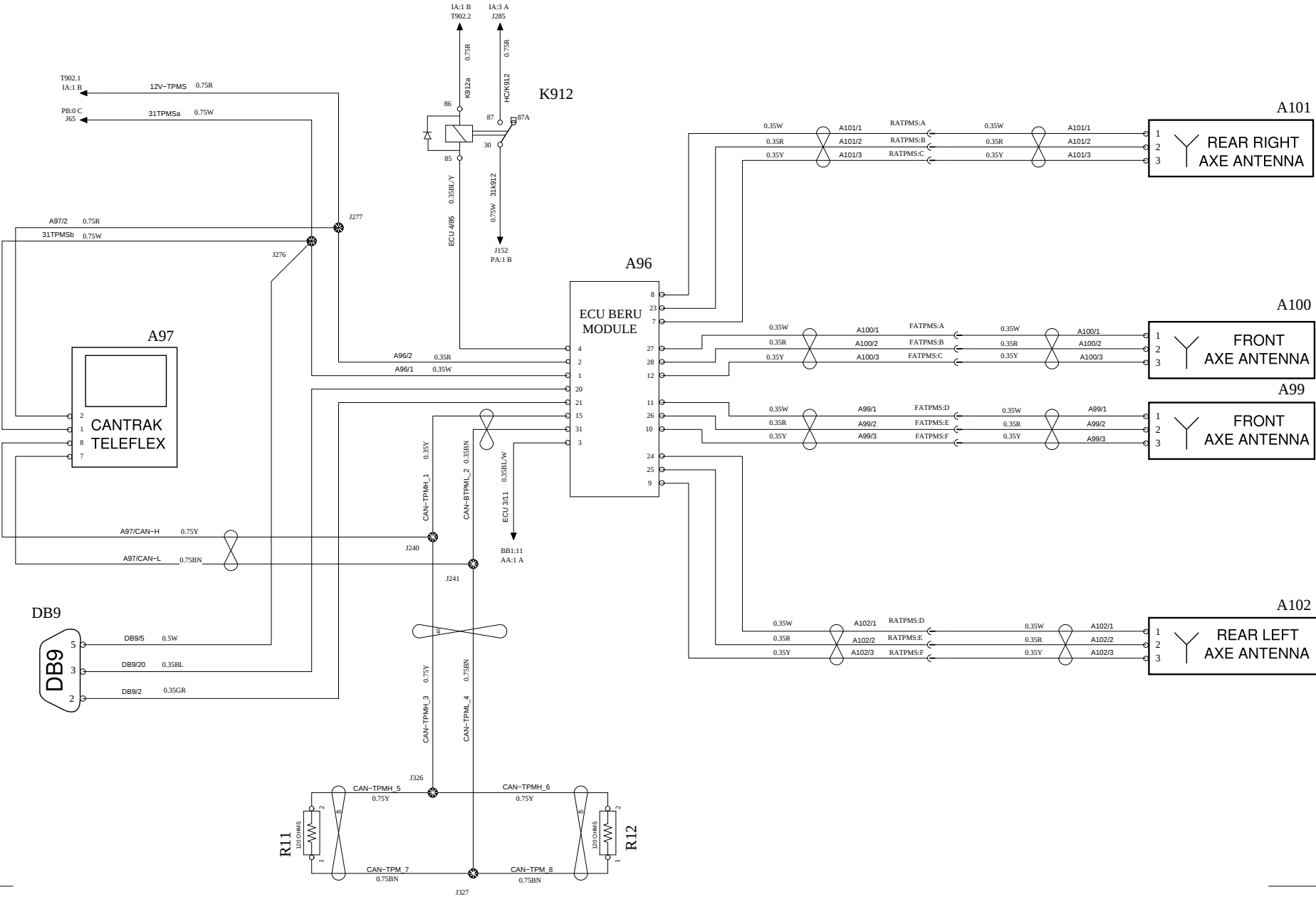
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TIRE PRESSURE MONITORING SYSTEM

IF

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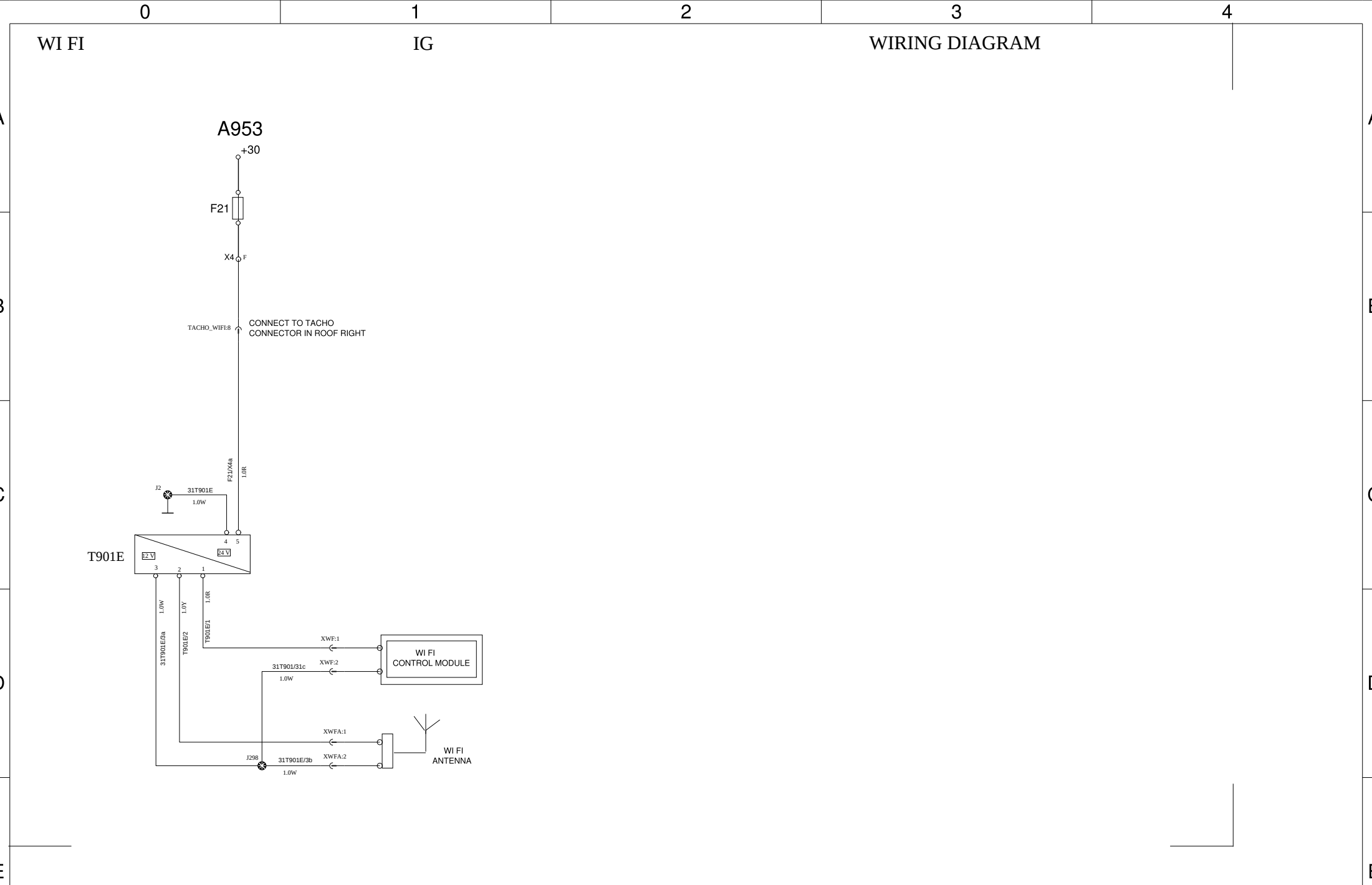
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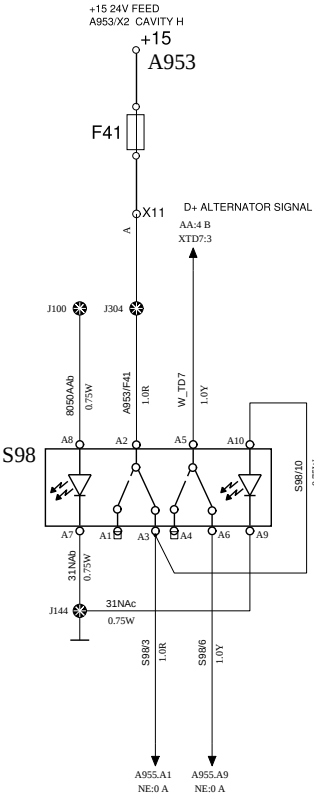
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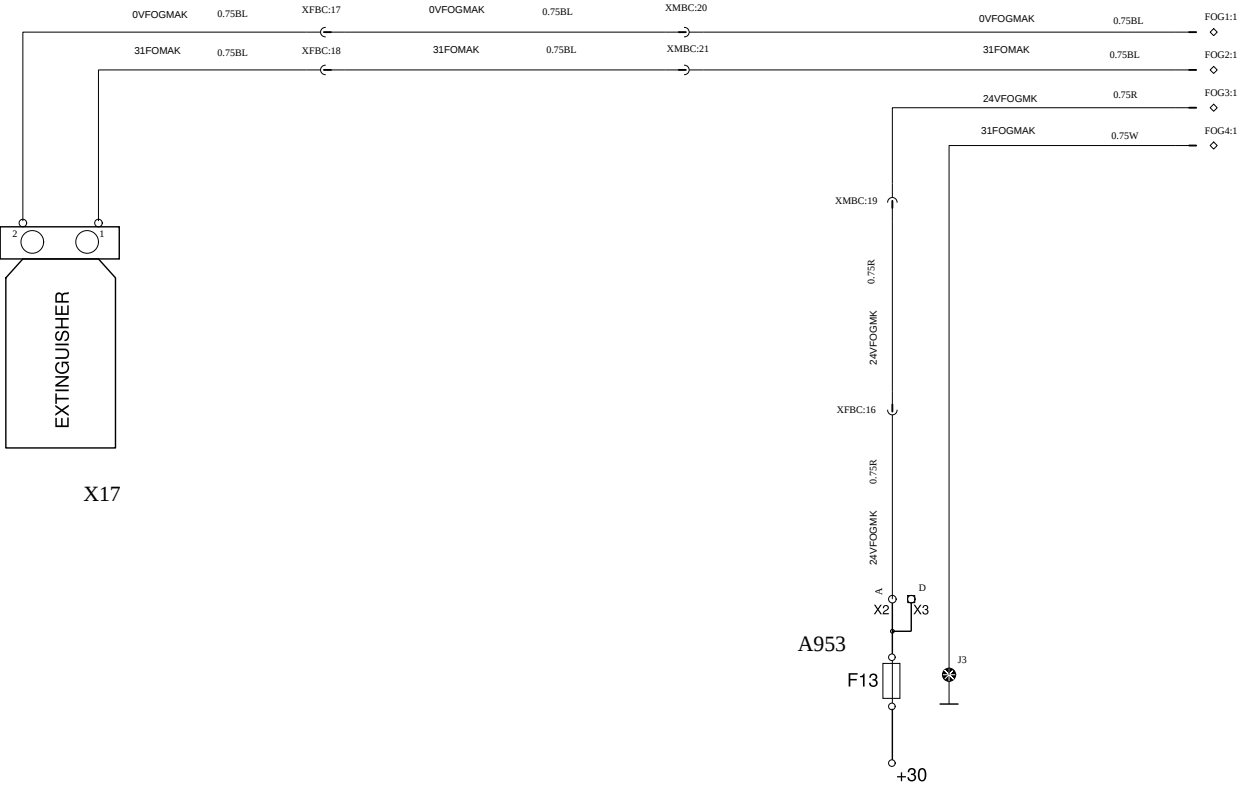
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## IJ

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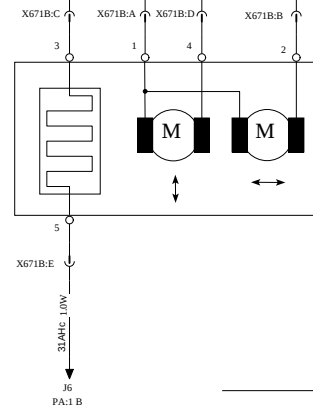
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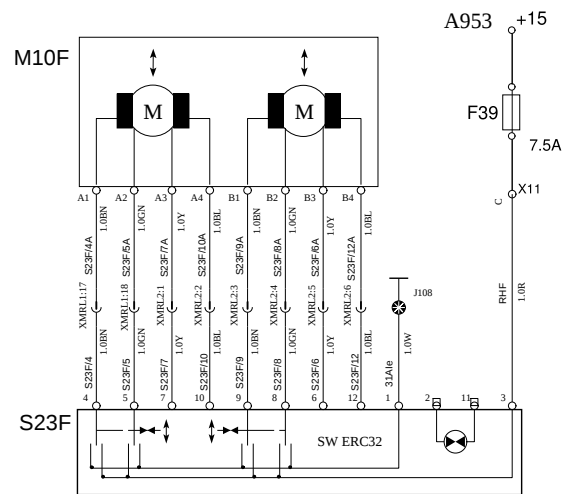
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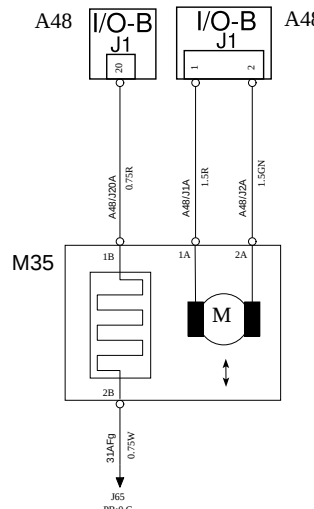
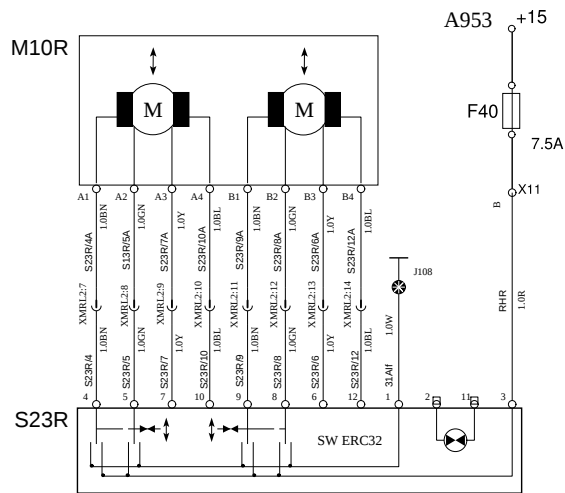
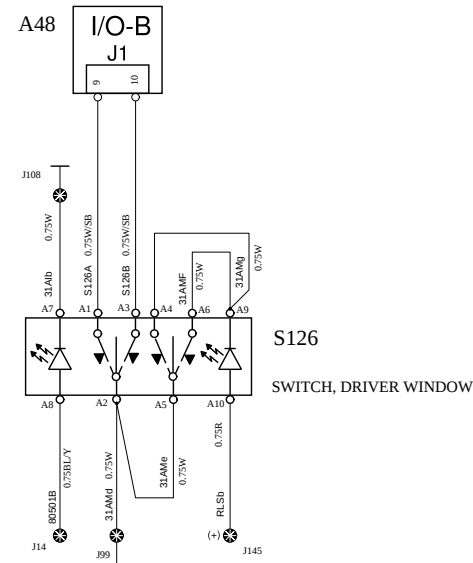
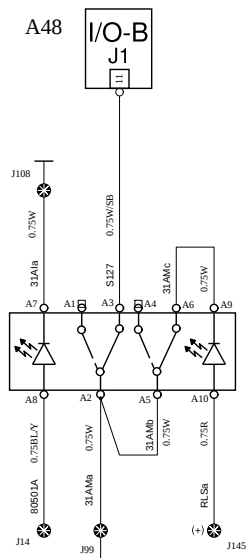
ELECTRIC WINDOW & ROOF HATCHES

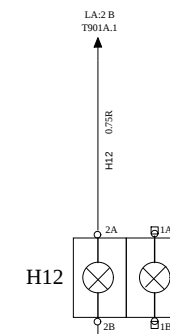
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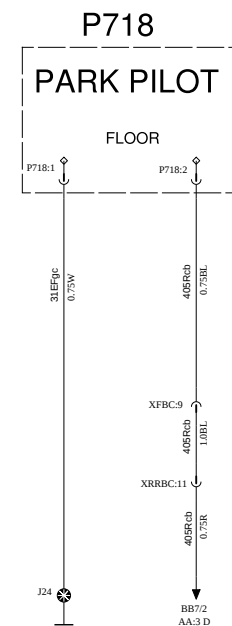
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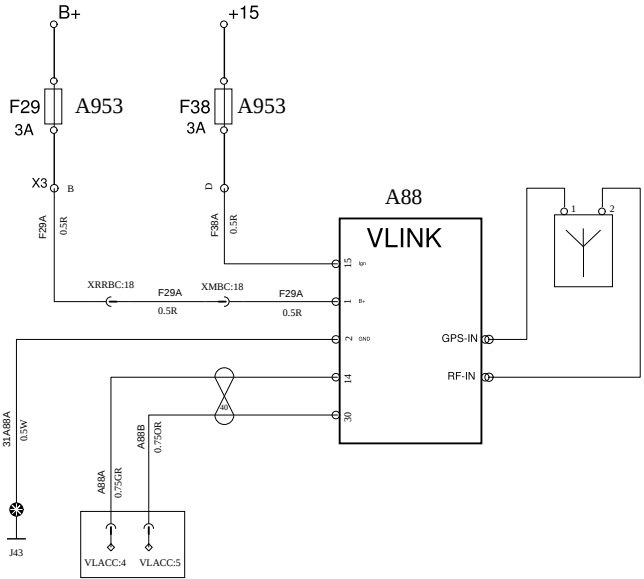


S127  
SWITCH, WINDOW HEATER





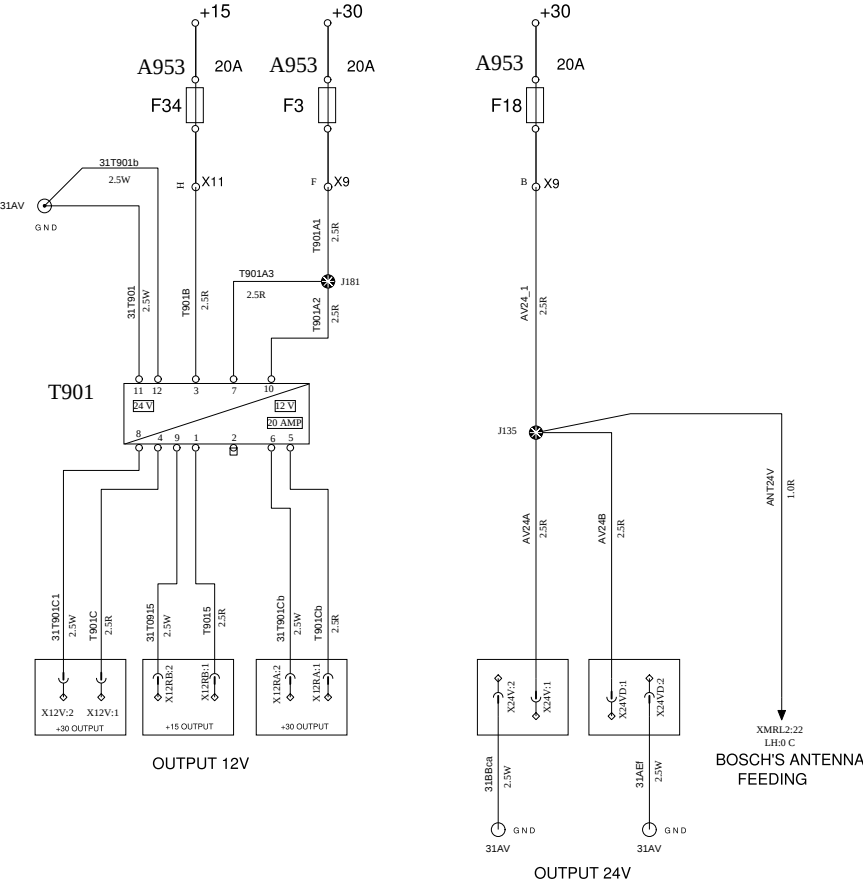




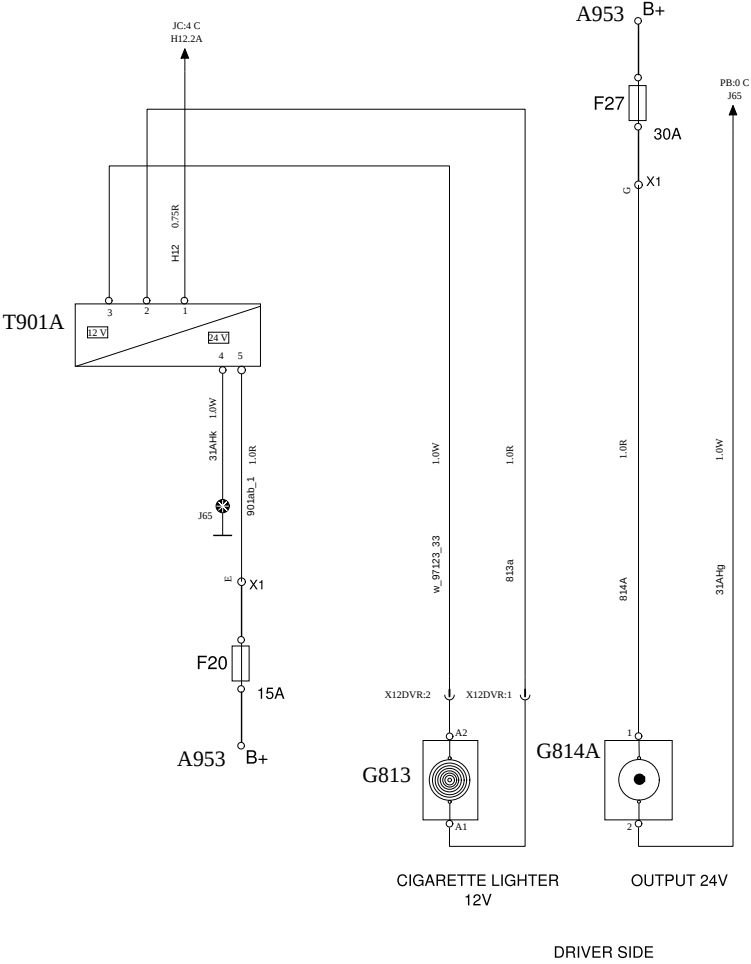
AUDIO & VIDEO SUPPLY, 12 & 24 OUTPUTS

LA

WIRING DIAGRAM



AUDIO AND VIDEO SUPPLY



DRIVER SIDE



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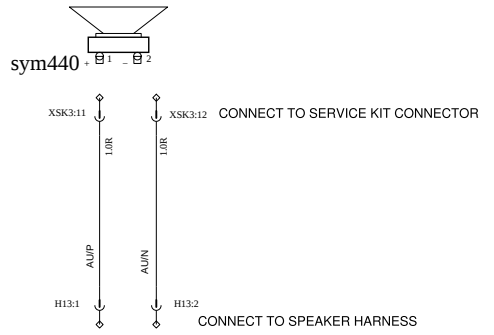
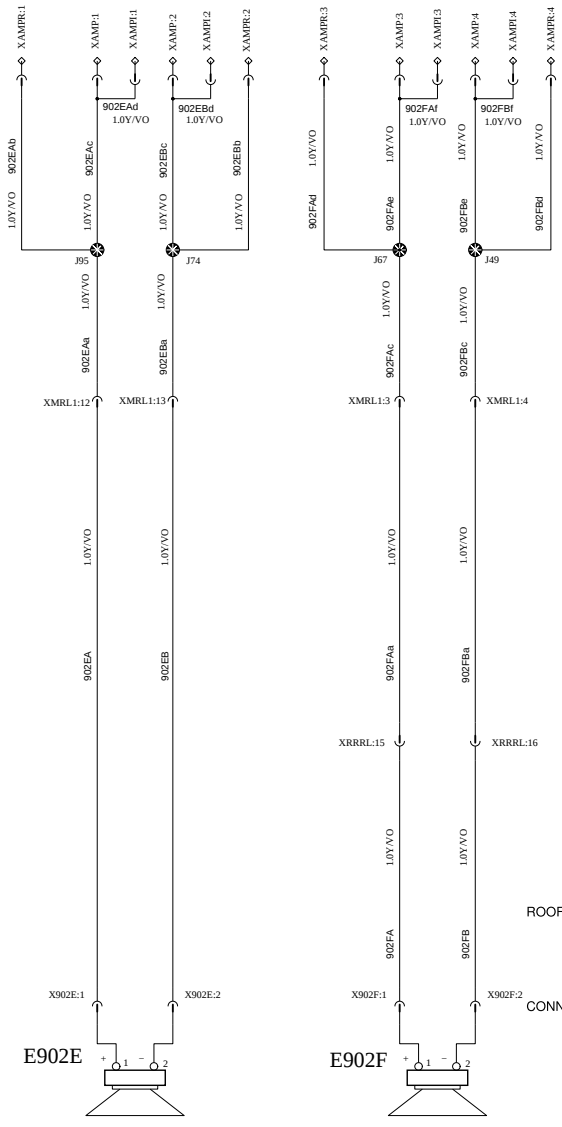
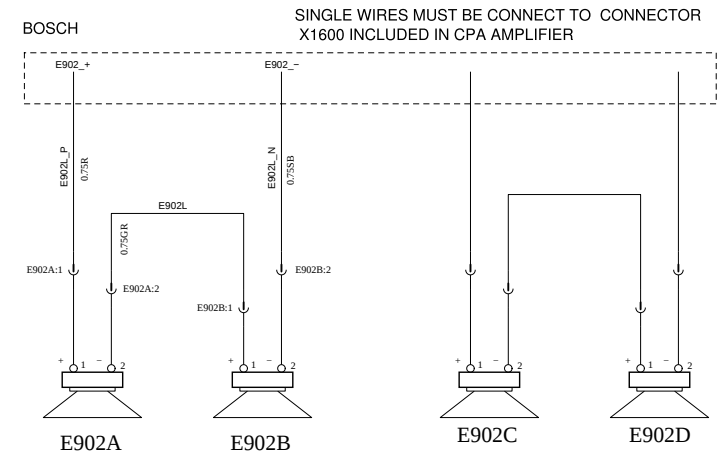
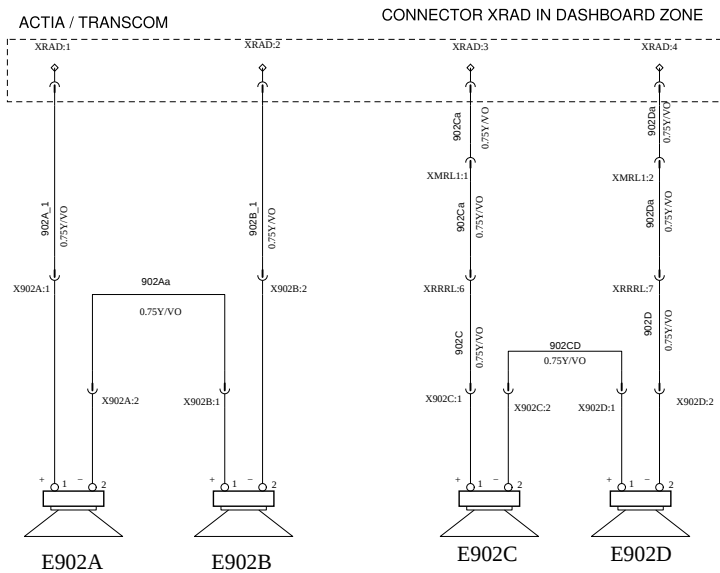
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DRIVER'S AREA SPEAKERS



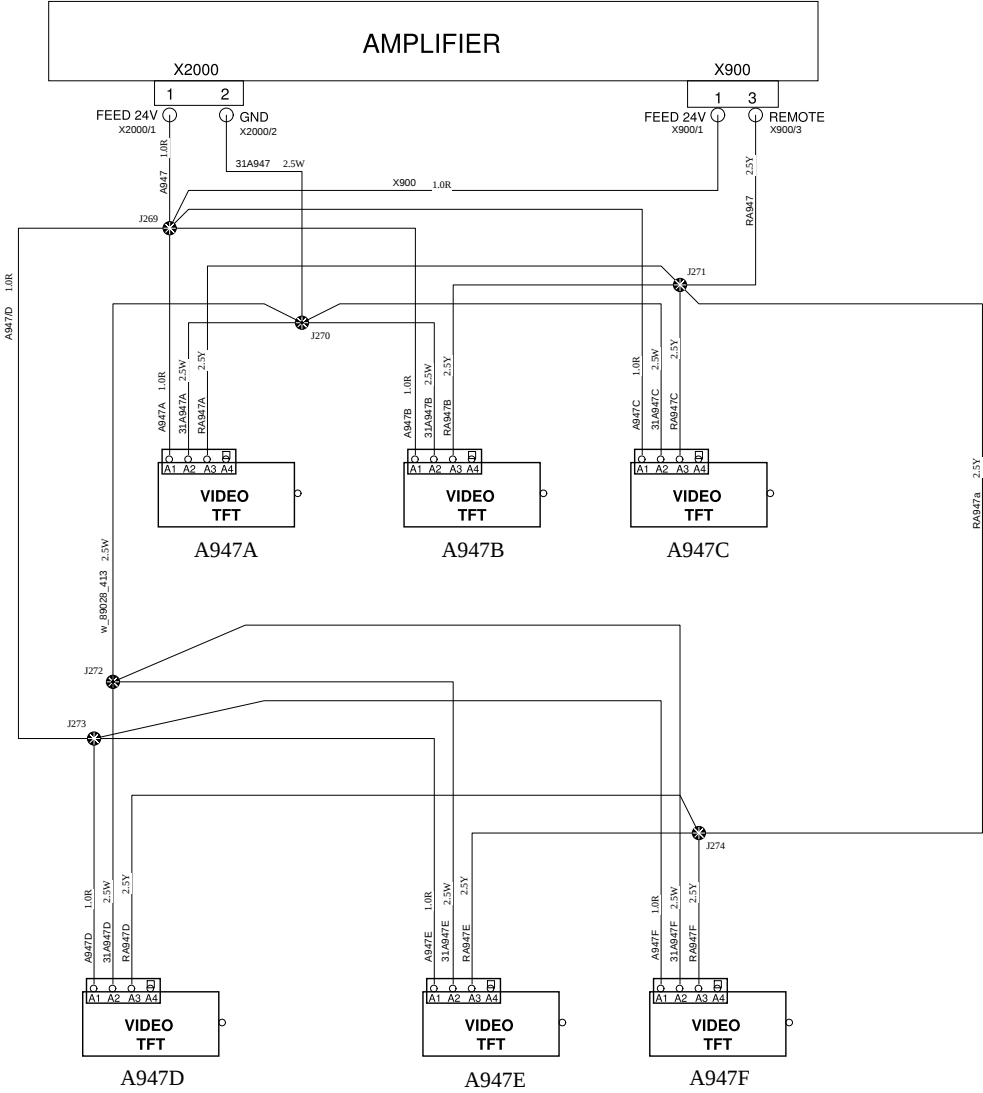
CABIN AREA

ROOF HARNESS

CONNECT TO SERVICE KIT SPEAKER HARNESS







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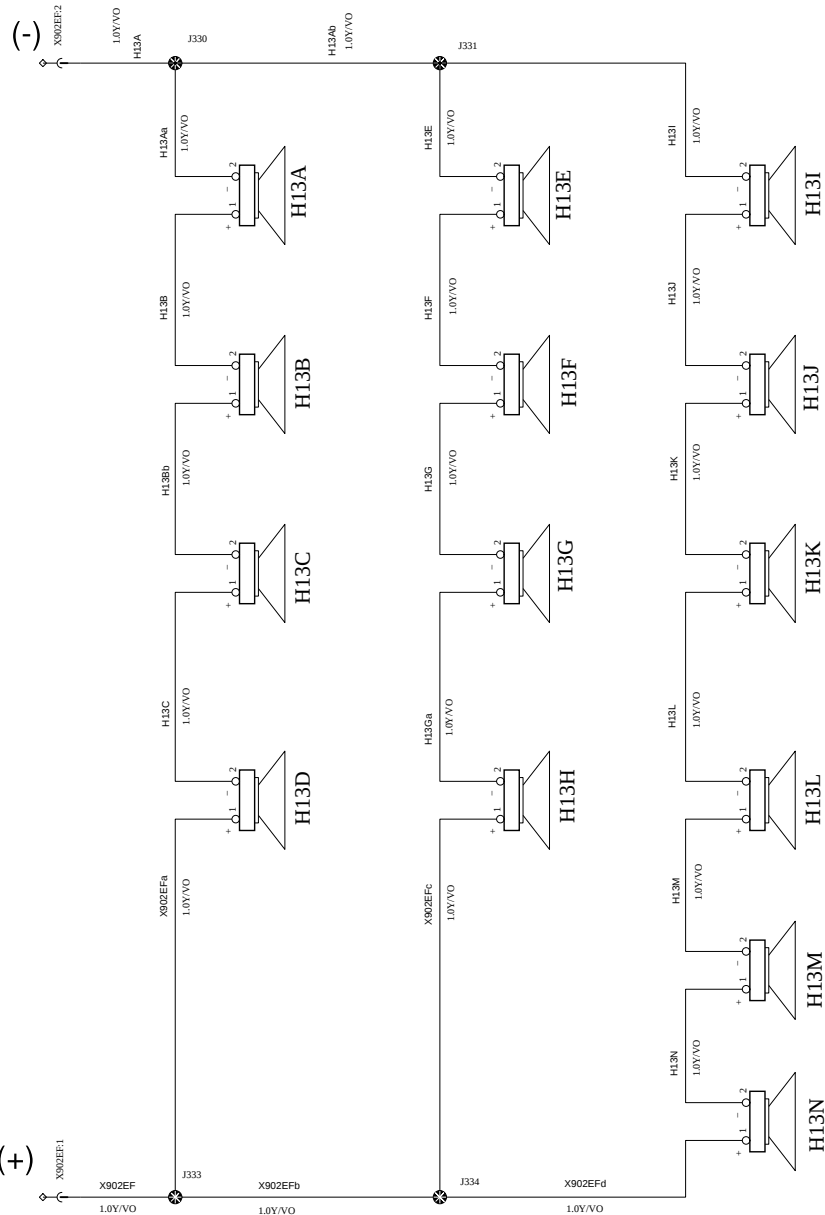
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AUDIO LUGGAGE RACK

LF

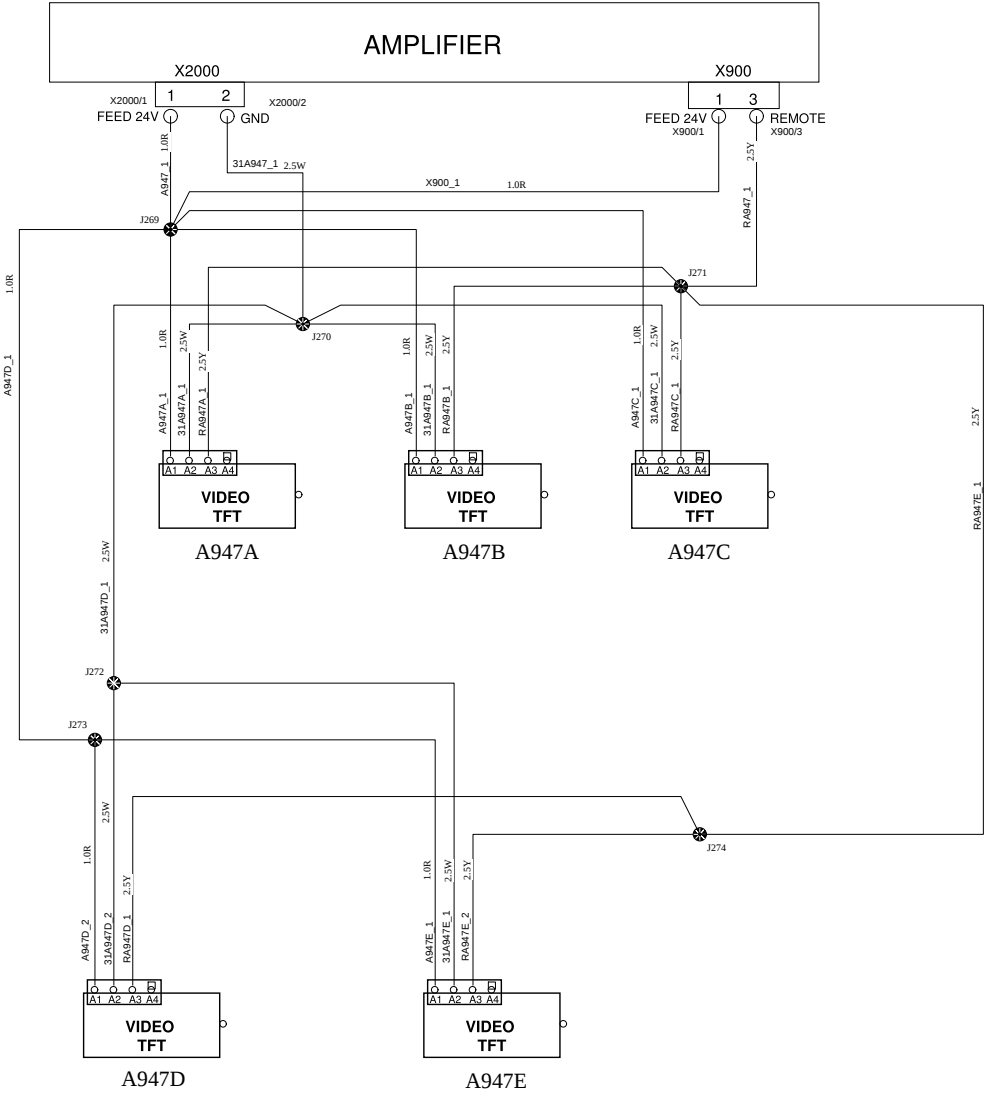
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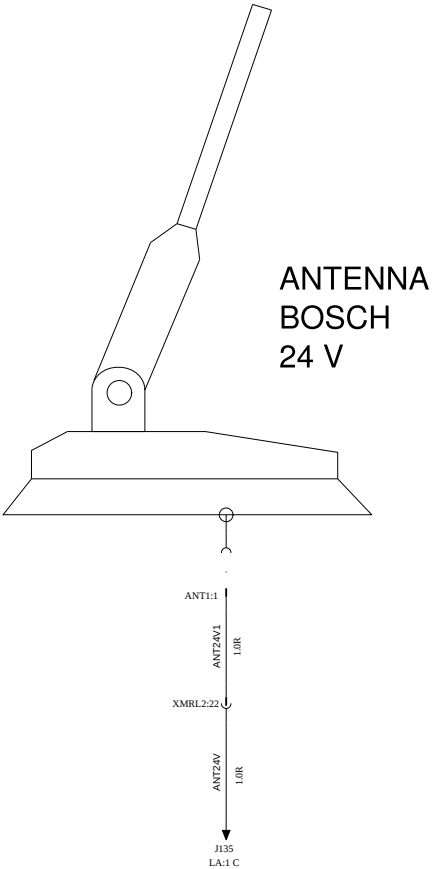


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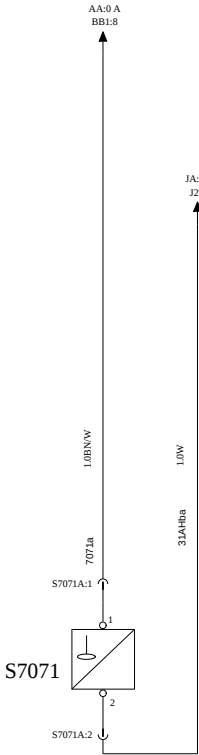
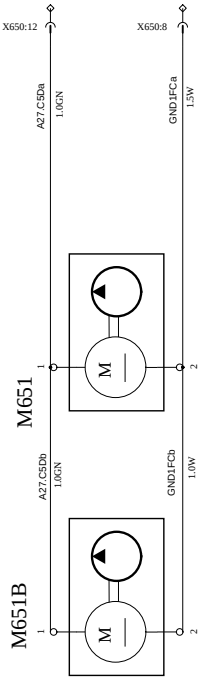
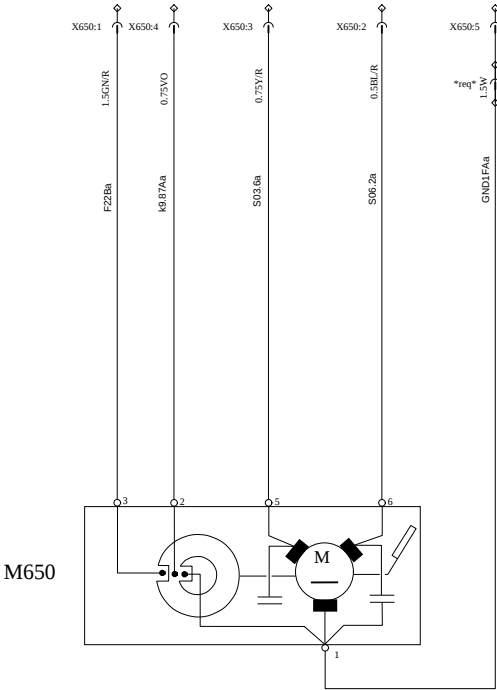




WIPER & WASHER

MA

WIRING DIAGRAM



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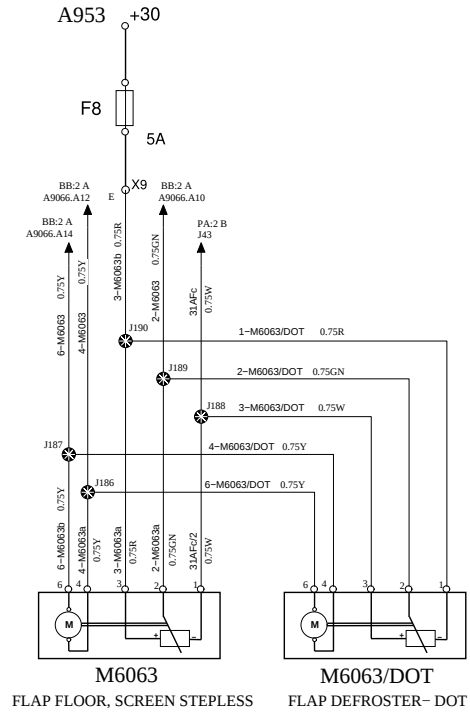
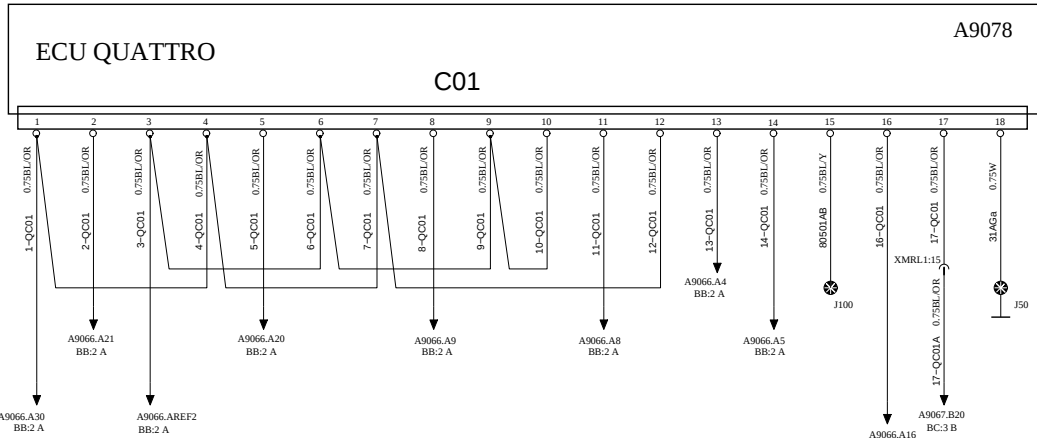
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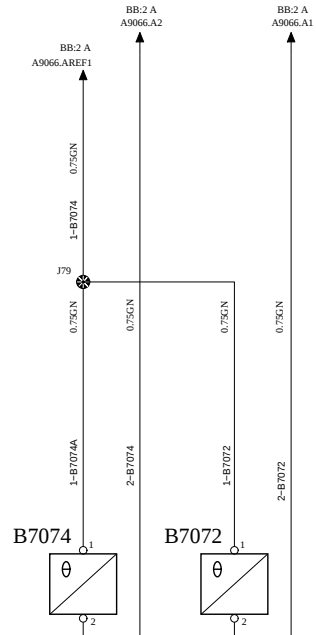
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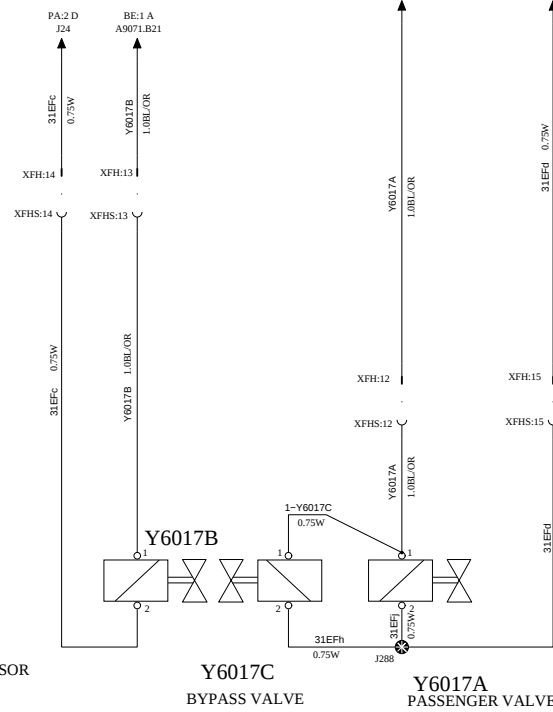
CONTROL UNIT, CLIMATE DISPLAY



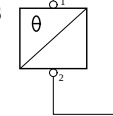
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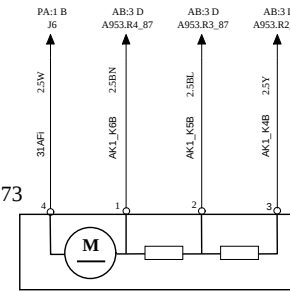
DEFROSTER VALVE



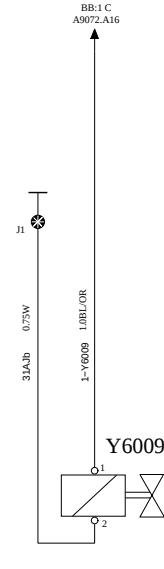
B7073  
OUTSIDE TEMP. SENSOR



M6073



AC DEFROSTER VALVE

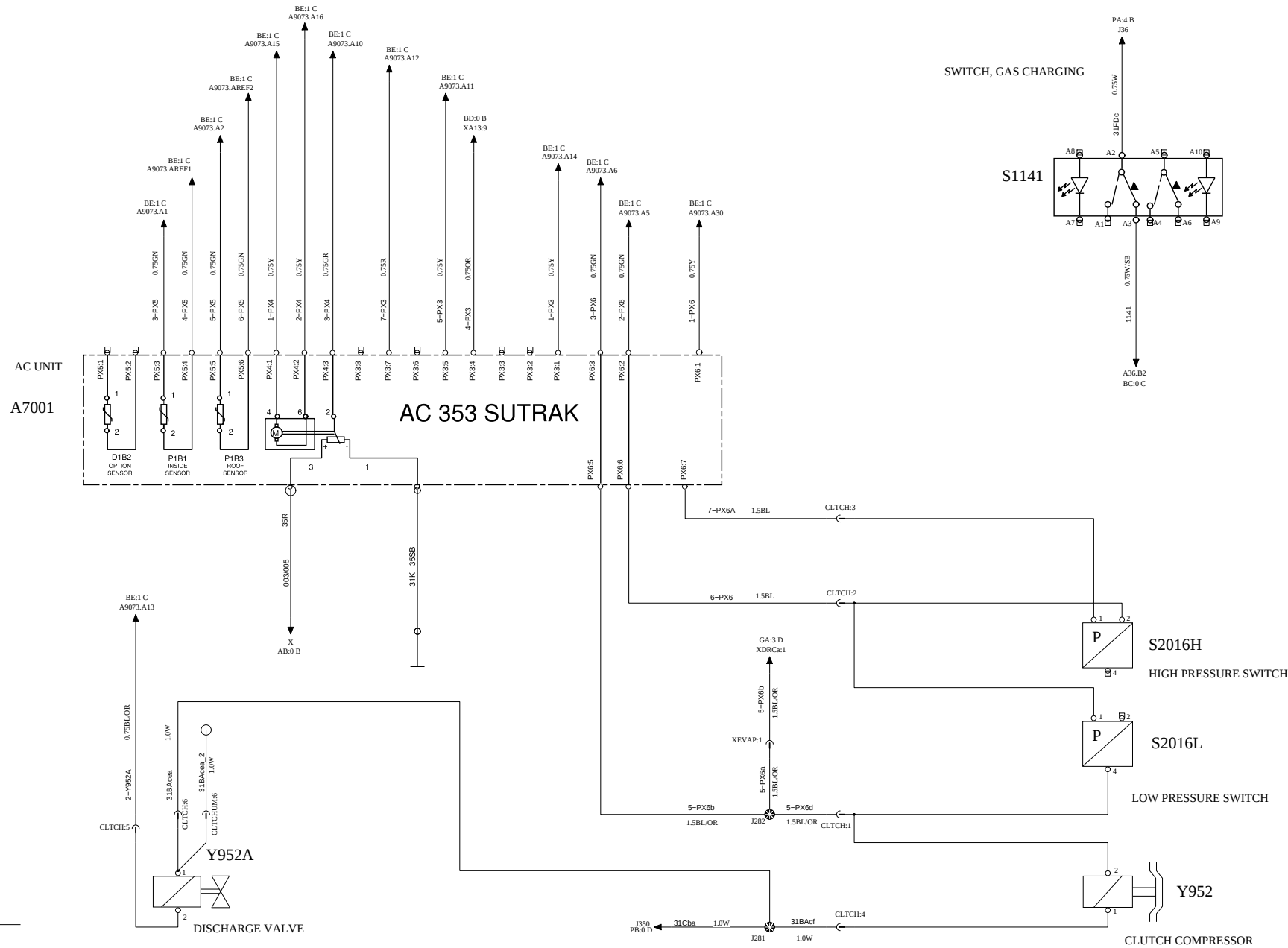


\*AC WITHOUT MULTIPLEX  
CONNECT TO XFHS

# AIR CONDITIONING, SYSTEM 1

NB

# WIRING DIAGRAM



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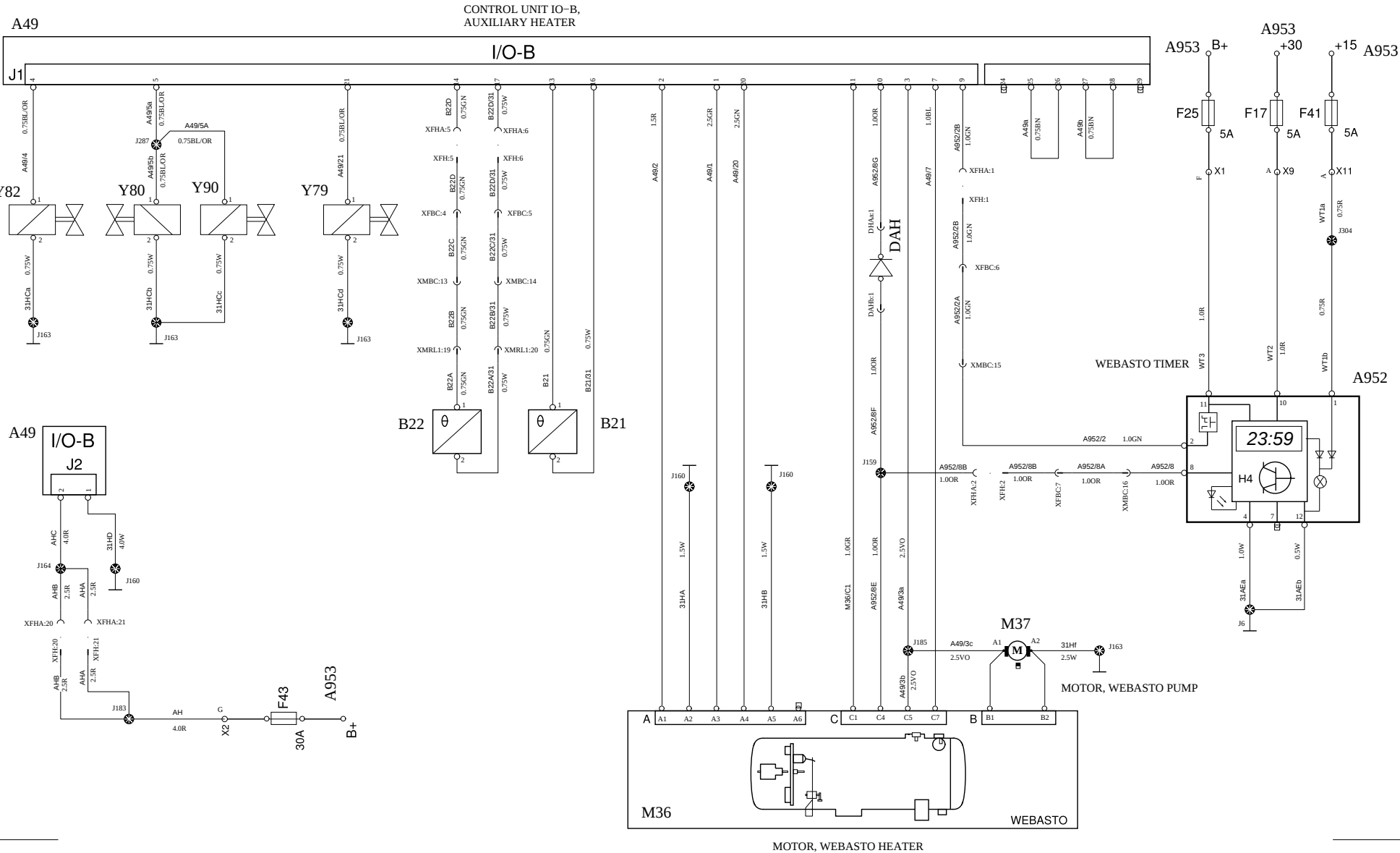
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FAN, REHEATING SYSTEM

# AUXILIARY HEATER

ND

# WIRING DIAGRAM



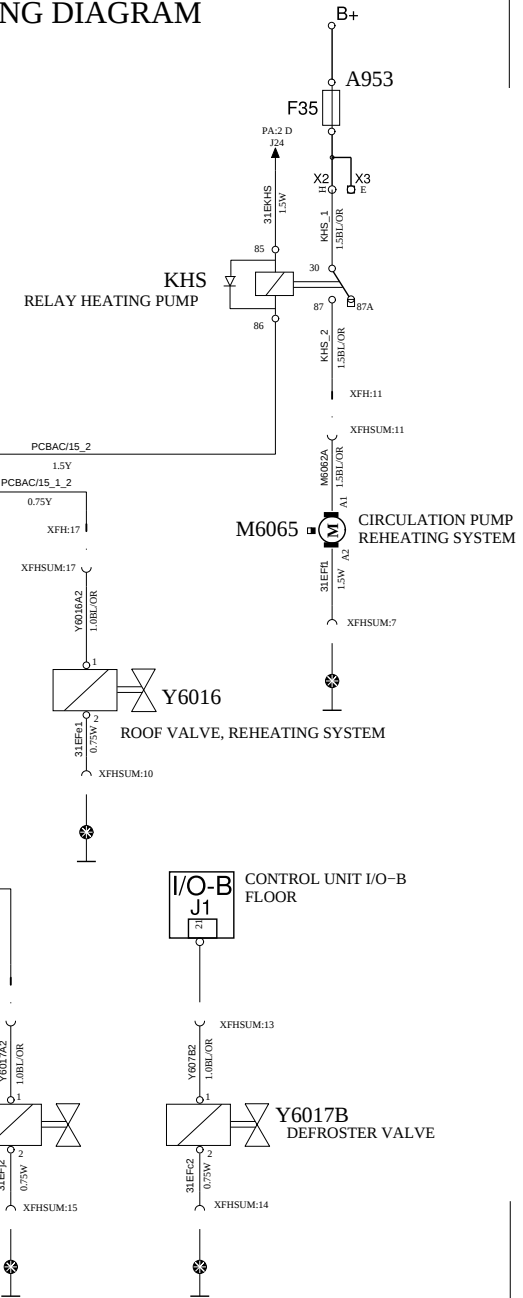
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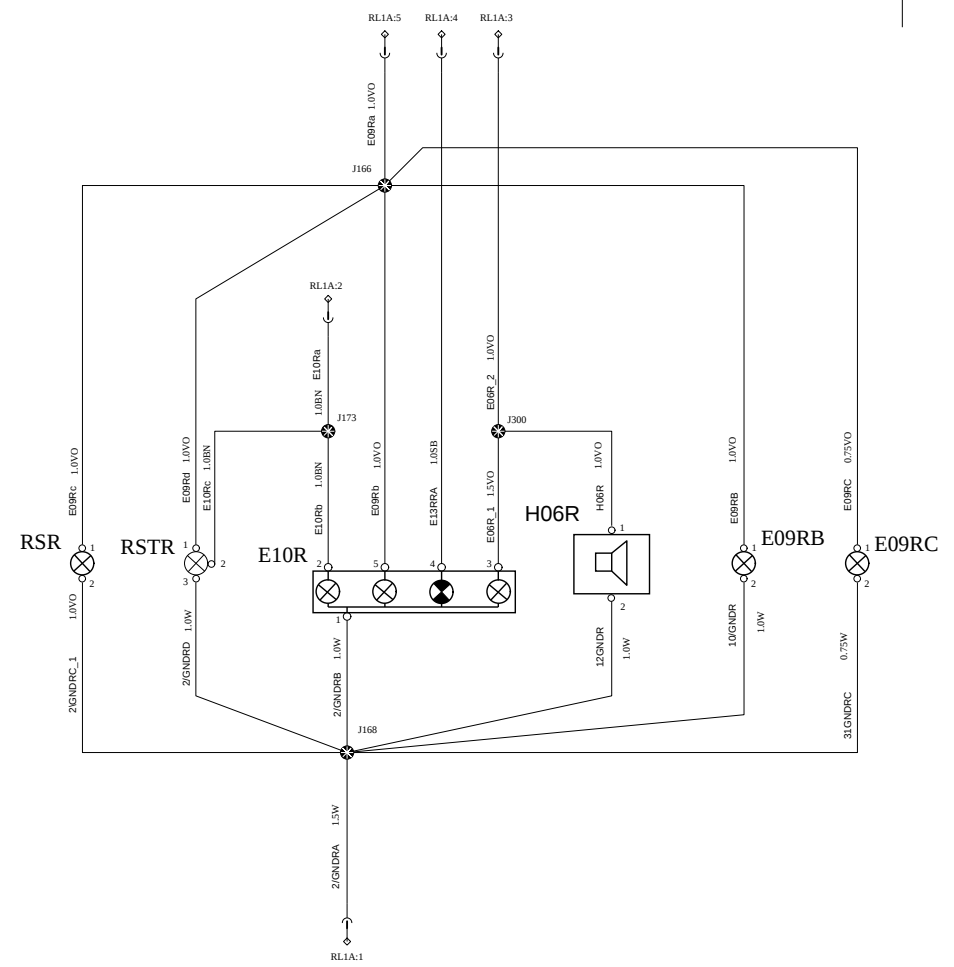
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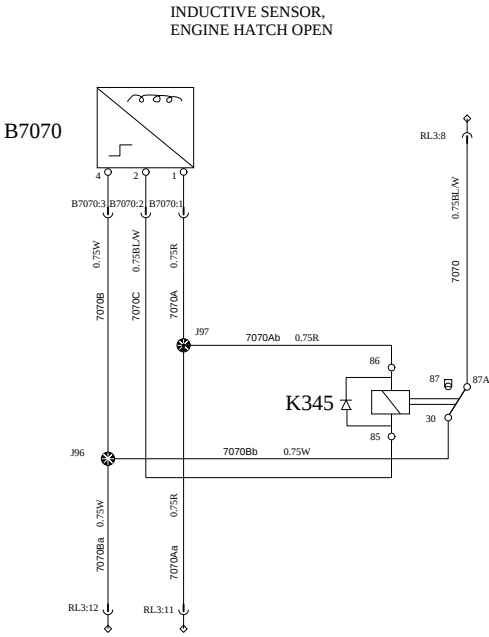
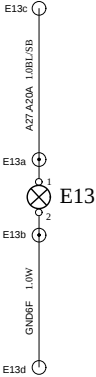
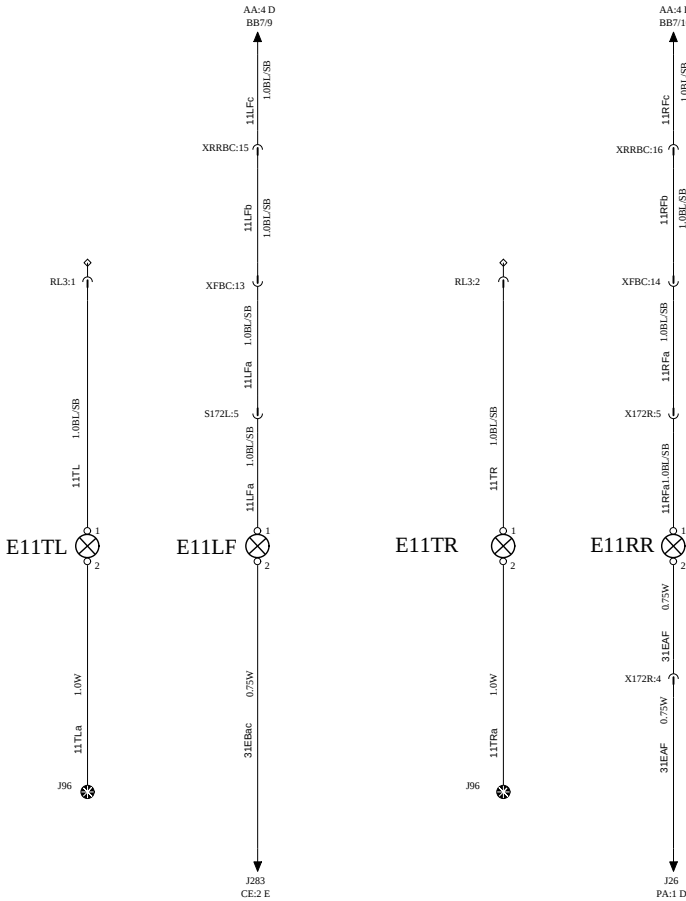
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BOTTOM POSITION LIGHTS

OB

WIRING DIAGRAM



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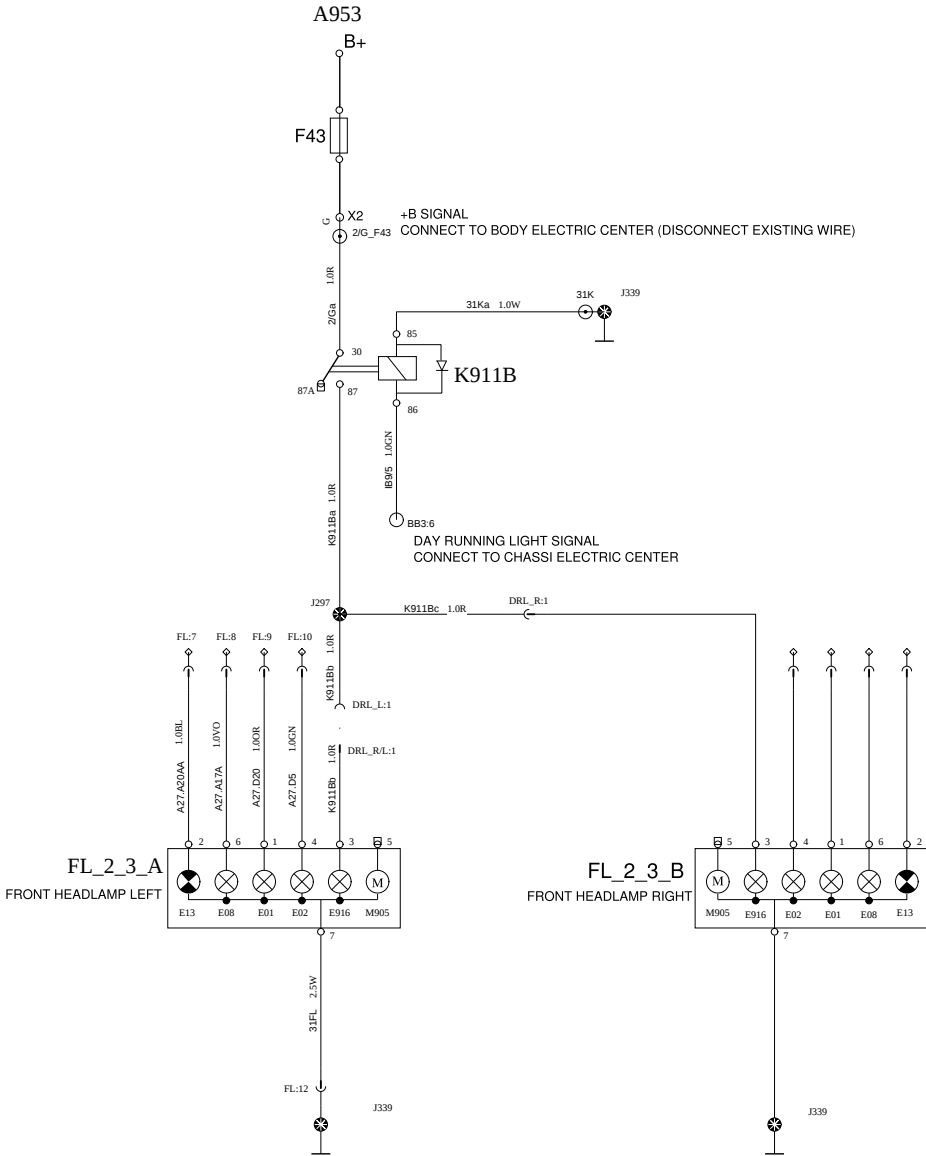
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FRONT LIGHTS EXTENSION FOR SELECT

OC

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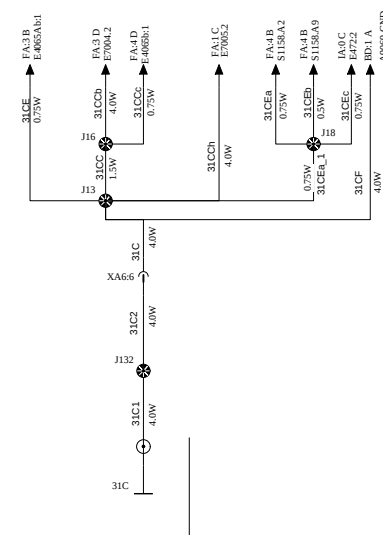
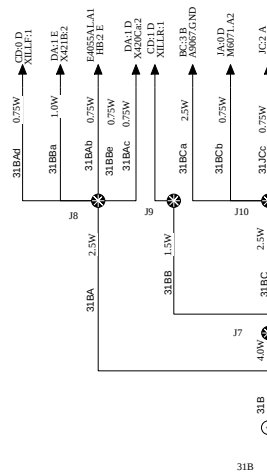
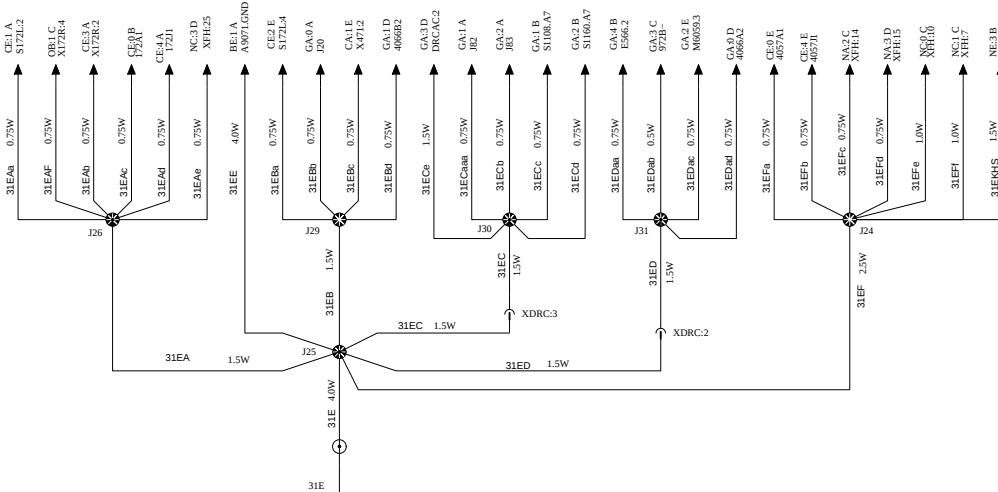
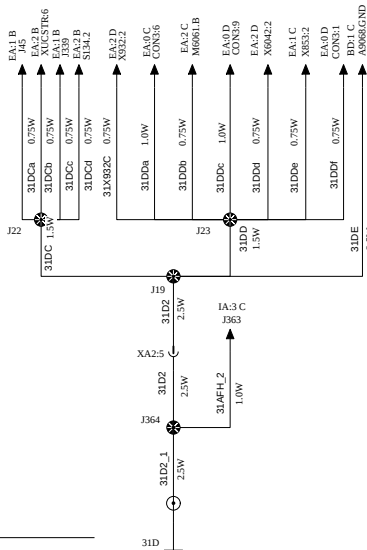
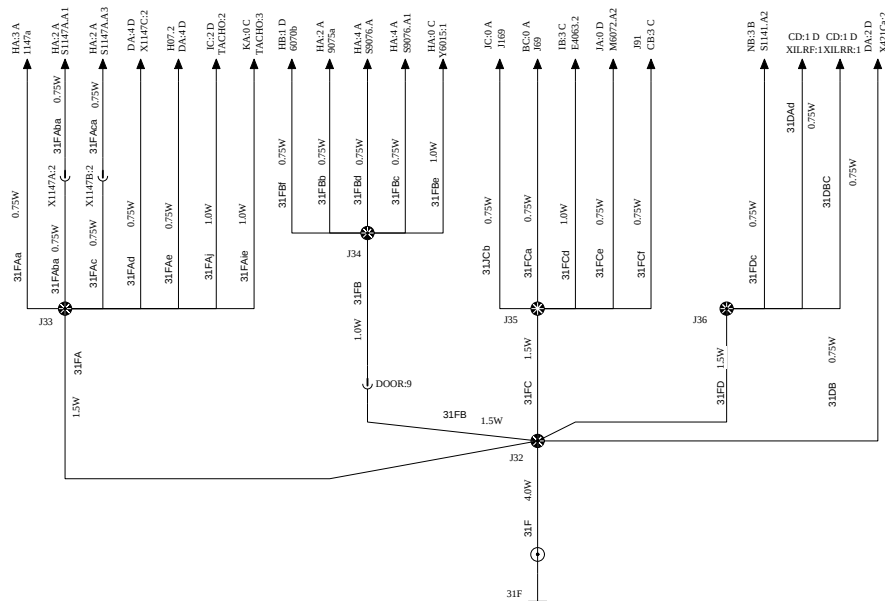
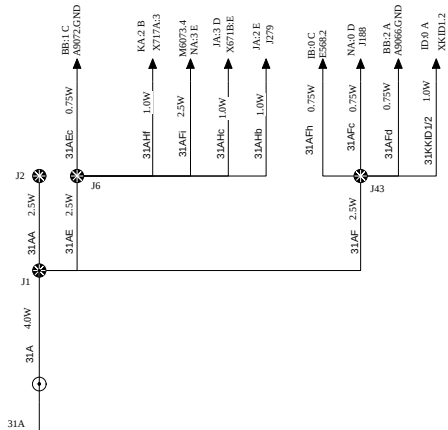
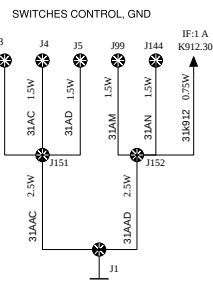
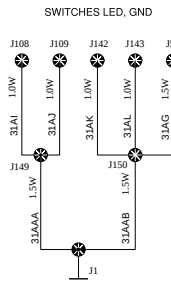
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# GROUNDINGS

# PA

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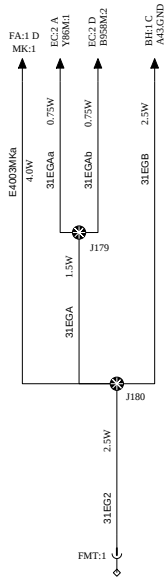
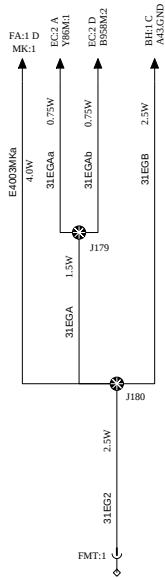
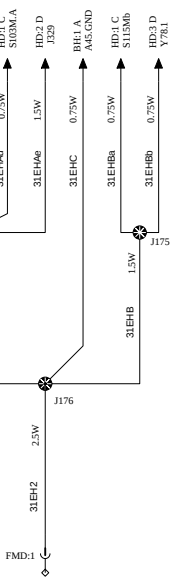
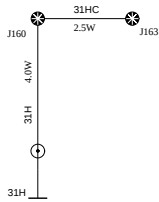
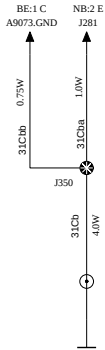
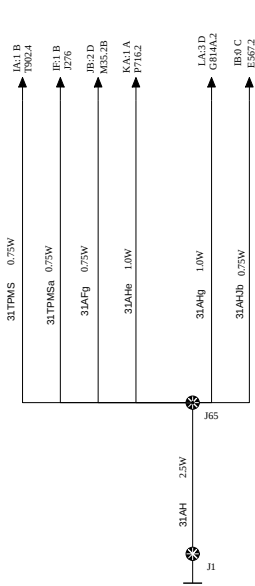
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PB

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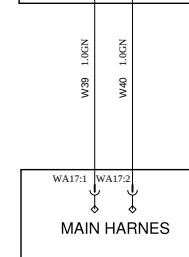
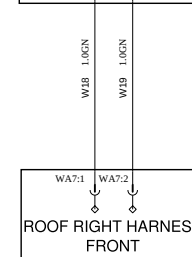
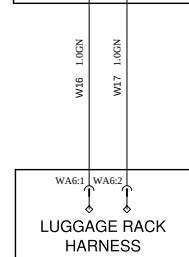
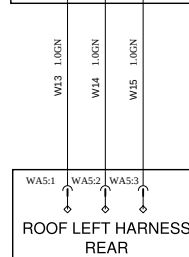
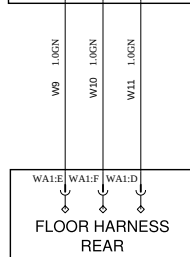
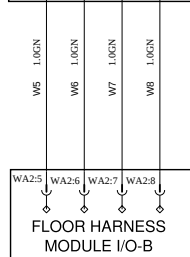
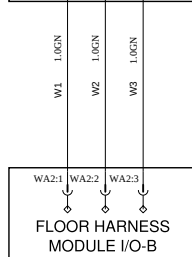
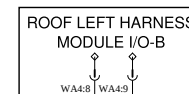
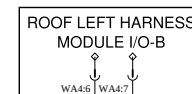
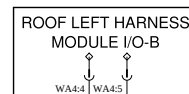
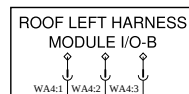
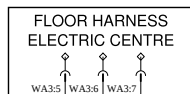
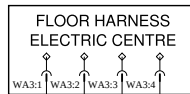
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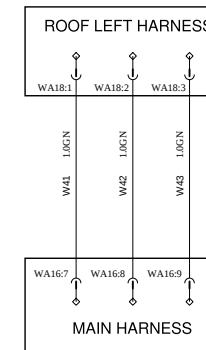
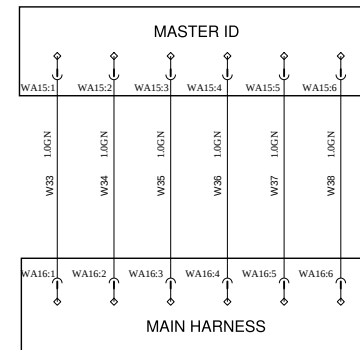
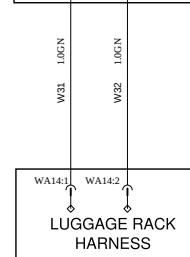
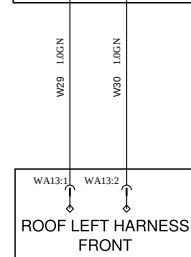
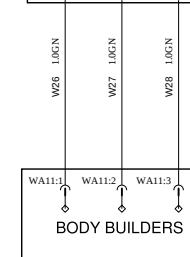
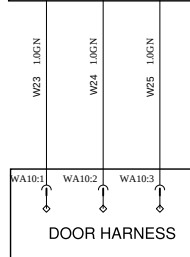
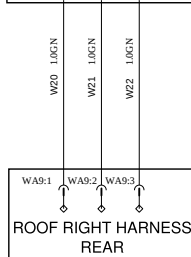
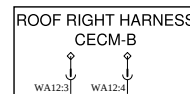
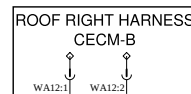
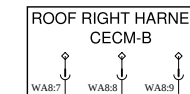
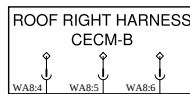
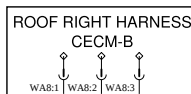
WIRING DIAGRAM

FLOOR HARNESS

ROOF LEFT HARNESS



ROOF RIGHT HARNESS



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FUSES & RELAYS

RA

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FUSES

| FUSE | DESCRIPTION                            | AMPERS   | FUSE | DESCRIPTION                       | AMPERS |
|------|----------------------------------------|----------|------|-----------------------------------|--------|
| F1   | FEED +30 SERVICE KIT                   | 20A      | F23  | LIGHT UNDER SEATS                 | 5A     |
| F2   | TRANSCOM                               | 5A       | F24  | MIDDLE DOOR I/O A MODULE          | 5A     |
| F3   | AUDIO & VIDEO 12V                      | 20A      | F25  | WEBASTO TIMER 3                   | 5A     |
| F4   | FEED RELAY K5                          | 30A      | F26  | DASHBOARD I/O A MODULE            | 5A     |
| F5   | FLOOR I/O B MODULE                     | 30A      | F27  | 24 VCD OUTPUT IN DRIVER SIDE      | 30A    |
| F6   | CLIMATE I/O A MODULE                   | 5A       | F28  | PRESOSTATO                        | 5A     |
| F7   | CLIMATE UNIT I/O A                     | 5A       | F29  | COPILOTO/ V-LINK                  | 3A     |
| F8   | DEFROSTER FLAP                         | 5A       | F30  | CONTROL PANEL AIR                 | 5A     |
| F9   | RED LED SWITCHES                       | 5A       | F31  | FEED +15 TD7                      | 3A     |
| F10  | DEFROSTER                              | 20A      | F32  | MOBITEC (+15)                     | 5A     |
| F11  | ROOF LEFT 2. I/O B MODULE              | 30A      | F33  | DRC AIR CONDITIONING              | 15A    |
| F12  | MOBITEC CONTROL & MCM FEED             | 7.5A     | F34  | AUDIO & VIDEO (+15)               | 20A    |
| F13  | LEFT & MDLE TOILET I/O B MODULE/FSS    | 7.5A/15A | F35  | PARK PILOT                        | 10A    |
| F14  | ELECTRIC WINDOW                        | 20A      | F36  | TIME & TEMPERATURE DISPLAY        | 5A     |
| F15  | WHEEL CHAIR LIFT                       | 30A      | F37  | TPMS                              | 15A    |
| F16  | ROOF LEFT I/O B MODULE                 | 30A      | F38  | V-LINK                            | 3A     |
| F17  | WEBASTO TIMER 2                        | 5A       | F39  | ROOF HATCH FRONT                  | 7.5A   |
| F18  | AUDIO & VIDEO 24V                      | 20A      | F40  | ROOF HATCH REAR                   | 7.5A   |
| F19  | TOILET I/O B MODULE                    | 7.5A     | F41  | WEBASTO TIMER 1                   | 5A     |
| F20  | DASHBOARD CONVERTER, CIGARRETTE OUTPUT | 15A      | F42  | ELECTRICAL BLINDER                | 15A    |
| F21  | COPILOTO, TD7/WI FI                    | 5A       | F43  | AUXILIARY HEATER/FRONT LIGHTS SEL | 30A    |
| F22  | +B FEED MCM                            | 15A      | F44  | FEED OVER SPEED RELAY             | 15A    |

RELAYS

| RELAY  | DESCRIPTION             |
|--------|-------------------------|
| AK(15) | LOADS +15               |
| K1     | OVER SPEED 95KM CONTROL |
| K2     | DEFROSTER SPEED 1       |
| K3     | DEFROSTER SPEED 2       |
| K4     | DEFROSTER SPEED 3       |
| K5     | NIGHT LIGHT             |



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| D-15244-46                       |          | SEE DCN BODY       |                          |         | Date<br>2012-09-27      | Modification Count |

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| 31AA   | GROUND MAIN                      | PA 2 B |
| 31Aa   | FREE TERMINAL                    | PA 1 B |
| 31AV   | GND AUDIO AND VIDEO MAIN H       | LA 1 D |
| 31AVD  | GROUND AUDIO VIDEO ON DEMAND     | LD 0 C |
| 31B    | GROUND, ROOF LEFT FRONT          | PA 4 E |
| 31Bb   | FREE TERMINAL                    | PA 4 E |
| 31C    | GROUND, ROOF LEFT REAR           | PA 4 E |
| 31Cb   | GROUND, AIR CONDITION HARNESS    | PB 0 E |
| 31Cc   | FREE TERMINAL                    | PA 4 E |
| 31D    | GROUND, ROOF RIGHT REAR          | PA 0 E |
| 31Dd   | FREE TERMINAL                    | PA 0 E |
| 31DVwm | GROUND, DISCHARGE VALVE          | NB 0 D |
| 31E    | GROUND, FLOOR                    | PA 1 E |
| 31Ee   | FREE TERMINAL                    | PA 1 E |
| 31F    | GROUND, EXTRA                    | PA 3 C |
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| 972B+  | FREE TERMINAL                    | GA 3 C |
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| 1147a  | FREE TERMINAL                    | HA 3 A |
| 1147b  | FREE TERMINAL                    | HA 3 B |
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| 1155b  | EMERGENCY BUTTON                 | EA 2 B |
| 1155La | FREE TERMINAL                    | EB 2 A |
| 1155Lb | FREE TERMINAL                    | EB 2 B |
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| 1161B2 | FREE TERMINAL                    | GA 0 B |
| 4057A  | FREE TERMINAL                    | CE 0 D |
| 4057A1 | FREE TERMINAL                    | CE 0 E |

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| KK    | KITCHEN RELAY                   | FA 0 C |
| KRR   | KITCHEN REAR RELAY              | FA 0 C |
| M20M  | MOTOR, FAN WC MIDDLE TOILET     | EC 3 D |
| M24M  | HANDWASH PUMP WC, MIDDLE TOILET | EC 0 A |
| M25M  | MOTOR FLUSHING PUMP WC          | EC 1 A |
| M33   | MOTOR, DEFROSTER SMOG FLAP      | NC 1 B |
| M35   | MOTOR, DRIVER WINDOW            | JB 2 D |
| M36   | MOTOR, WEBASTO HEATER           | ND 2 D |
| M37   | MOTOR, WEBASTO PUMP             | ND 3 D |
| M38   | MOTOR, URINAL PUMP              | EA 3 E |
| M650  | WINDSCREEN WIPER MOTOR          | MA 0 D |
| M651  | WINDSCREEN WASHER MOTOR         | MA 2 C |
| M664  | WC FLUSHING WATER PUMP          | EA 3 E |
| M669  | FAN                             | EA 4 A |
| M669L | FAN                             | EB 4 A |
| M671  | MOTOR, TOILET FAN FOR SOIL TANK | EA 4 A |
| M671A | MIRROR MOTOR                    | JA 2 D |
| M671B | MIRROR MOTOR                    | JA 3 D |
| M672  | BLINDER MOTOR                   | JA 1 D |
| M6059 | REST COMPARTMENT FAN            | GA 2 E |

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|  | M6061     | HANDWASH WATER PUMP                     | EA 2 C |  |
|  | M6061L    | WATER PUMP, HW, LEFT TOILET             | EB 1 B |  |
|  | M6062     | CIRCULATION PUMP, REHEATING SYS         | NC 1 D |  |
|  | M6063     | FLAP FLOOR, SCREEN STEPLESS             | NA 0 D |  |
|  | M6064     | FAN, REHEATING SYSTEM                   | NC 2 D |  |
|  | M6065     | CIRCULATION PUMP REHEATING SYSTEM       | NE 4 B |  |
|  | M6071     | DRIVER FAN                              | JA 0 D |  |
|  | M6072     | GUIDE FAN                               | JA 0 D |  |
|  | M6073     | DEFROSTER                               | NA 3 E |  |
|  | MINISIGMA | TACHOGRAPH, SUPPLIER ACTIA              | IC 3 B |  |
|  | P715      | CODRIVER/INTELSAT                       | KA 0 A |  |
|  | P716      | CONTROL PANEL AIR/VIGIA                 | KA 1 A |  |
|  | R1        | RESISTOR 120OHMS, START CANB            | BA 0 B |  |
|  | R2        | RESISTOR 120OHMS, START CANB            | BA 4 D |  |
|  | R3        | RESISTOR 120 OHMS, END CAND             | BC 1 B |  |
|  | R11       | INITIATION RESISTOR CAN-BTPM            | IF 1 E |  |
|  | R12       | TERMINATION RESISTOR CAN-BTPM           | IF 2 E |  |
|  | RSL       | REAR STOP LIGHT LEFT                    | OA 0 C |  |
|  | RSR       | REAR STOP LIGHT RIGHT                   | OA 2 C |  |
|  | RSTL      | LAMP, STOP TAIL DOT                     | OA 0 C |  |
|  | RSTR      | LAMP, STOP TAIL DOT                     | OA 2 C |  |
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|  | S23R      | SWITCH, REAR ROOF HATCH                 | JB 0 E |  |
|  | S80       | SWITCH, TRANSCOM                        | LC 1 B |  |
|  | S98       | SWITCH, CSDD A/C                        | IH 1 C |  |
|  | S101      | SWITCH, MIDDLE DOOR                     | HC 3 B |  |
|  | S103M     | MICRO SWITCH, MIDDLE DOOR               | HD 1 C |  |
|  | S108M     | SWITCH, LOCK MIDDLE DOOR                | HD 3 C |  |
|  | S111M     | PUSH BUTTON, HANDWASH WC, MIDDLE TOILET | EC 1 D |  |
|  | S112M     | PUSH BUTTON, FLUSHING WC, MIDDLE TOILET | EC 1 D |  |
|  | S115Ma    | SWITCH, MIDDLE DOOR LOW PRESSURE        | HD 1 C |  |
|  | S115Mb    | SWITCH, MIDDLE DOOR LOW PRESSURE        | HD 1 C |  |
|  | S116      | INTERIOR LIGHTS                         | CD 0 B |  |
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|  | S117C     | SWITCH, DOOR WC CARRUS TOILET           | EC 2 D |  |
|  | S118      | SWITCH, DRIVER AND GUIDE FAN            | JA 0 B |  |
|  | S118M     | PUSH BUTTON, EMERGENCY WC               | EC 0 D |  |
|  | S126      | SWITCH, DRIVER WINDOW                   | JB 3 B |  |
|  | S127      | SWITCH, WINDOW HEATER                   | JB 2 B |  |
|  | S132      | DESTINATION SIGN LIGHT                  | CB 3 B |  |
|  | S134      | PUSH BUTTON, URINAL PUMP                | EA 2 B |  |
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|  | S137A     | SWITCH DOOR WHEEL CHAIR                 | GB 0 C |  |
|  | S137B.1   | ELECTRICAL HATCH LOCK WHEEL CHAIR LIFT  | GB 0 D |  |
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| Y_      | FUSE TERMINAL I-START                    | AB 1 C |

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