

CARE AND MAINTENANCE

18.2 Assignment fuse holder 1

Fuse holder 1

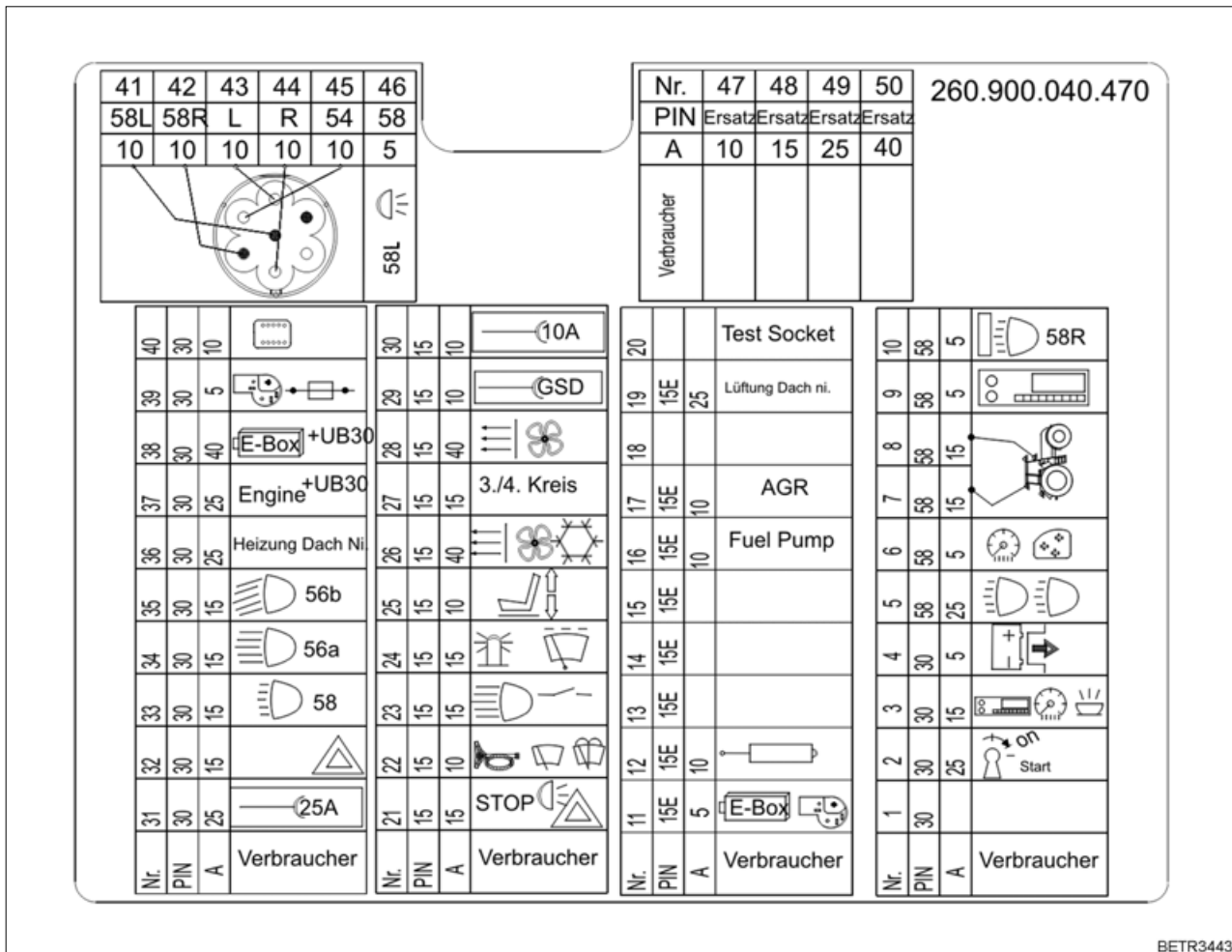


Fig.49

BETR3443

| Fuse no. | PIN | Amps (A) | Consumers |
|----------|------|----------|--|
| 1 | 30 | - | - |
| 2 | 30 | 25 | Preheat starter switch position ON |
| 3 | 30 | 15 | Radio, instrument cluster, interior lighting |
| 4 | 30 | 5 | Battery disconnect relay |
| 5 | 58 | 25 | Work light (Twin Power), on top of roof |
| 6 | 58 | 5 | Control console, instrument cluster |
| 7 | 58 | 15 | Rear work lights switch |
| 8 | 58 | 15 | Front work lights switch |
| 9 | 58 | 5 | Radio |
| 10 | 58 | 5 | Taillamps, license plate lighting |
| 11 | 15 E | 5 | E-box, joystick |
| 12 | 15 E | 10 | CAN hydraulic valves |
| 13 | 15 E | 5 | - |
| 14 | 15 E | 5 | - |
| 15 | 15 E | 5 | - |
| 16 | 15 E | 10 | Fuel pump |
| 17 | 15 E | 10 | Exhaust gas recirculation |
| 18 | - | - | - |
| 19 | 15 E | 25 | Ventilation, low roof |

CARE AND MAINTENANCE

| Fuse no. | PIN | Amps (A) | Consumers |
|-----------------|------------|-----------------|--|
| 20 | - | - | - |
| 21 | 15 | 15 | Pressure switch hazard warning light, brake relay |
| 22 | 15 | 10 | Steering column switch (combination switch) |
| 23 | 15 | 15 | Power supply driving lights |
| 24 | 15 | 15 | Windscreen wiper front intermittent operation, rotating beacon |
| 25 | 15 | 10 | Driver seat heater |
| 26 | 15 | 40 | Blower switch |
| 27 | 15 | 15 | Relay hydraulic circuits 3 and 4 |
| 28 | 15 | 40 | Blower switch |
| 29 | 15 | 40 | Implement socket, communications box power supply |
| 30 | 15 | 10 | 10 A socket |
| 31 | 30 | 25 | Socket 25 A |
| 32 | 30 | 15 | Hazard warning light pushbutton |
| 33 | 30 | 15 | Driving lamps pushbutton |
| 34 | 30 | 15 | Relay 56a (driving lights) |
| 35 | 30 | 15 | Relay, 56 b (dipped headlights) |
| 36 | 30 | 25 | Heater, low roof |
| 37 | 30 | 25 | Power supply e-box engine control |
| 38 | 30 | 40 | Power supply e-box comfort |
| 39 | 30 | 5 | Fuseboard, joystick |
| 40 | 30 | 10 | Mini-hydraulics |
| 41 | 58L | 10 | Front socket for front power lift, trailer socket |
| 42 | 58R | 10 | Trailer socket |
| 43 | L | 10 | Front socket for front power lift, trailer socket |
| 44 | R | 10 | Front socket for front power lift, trailer socket |
| 45 | 54 | 10 | Trailer socket |
| 46 | 58 | 5 | Position lamp front left, standing lamp left |
| 47 | - | - | - |
| 48 | - | - | - |
| 49 | - | - | - |
| 50 | - | - | - |

18.3 Assignment fuse holder 2

| Sicherung | Trennst. | Komponente | Trennst. |
|------------------------|----------|------------------------------------|----------|
| 01 | X200/10 | Drehzahlsensor Hydrostat | X163 |
| 02 | X200/11 | Drehzahlsensor Kegeleinzel | X164 |
| 03 | X200/12 | Drehwinkelsensor Kupplungspedal | X166 |
| 04 | X200/14 | Bedienteil | X1817 |
| 05 | X200/4 | | |
| 06 | X201/11 | Lageaufnehmer Hubwerk | X178 |
| 07 | X201/12 | Kraftmessbolzen | X179 |
| 08 | X201/13 | Drehwinkelgeber Fußgas | X898 |
| 09 | X201/6 | Lenkwinkelsensor | X2333 |
| 10 | X200/6 | Hochdrucksensor1 | X157 |
| 11 | X200/9 | Drehzahlsensor Motor | X159 |
| 12 | X200/17 | Drehwinkelsensor Federung | X152 |
| 13 | X200/16 | Drehzahlsensor Zapfwelle hi. | X169 |
| 14 | X200/15 | Drehzahlsensor Zapfwelle vo. | X151 |
| 15 | X200/5 | Hochdrucksensor2 | X177 |
| 18 | X201/1 | Magnetschalter TK-Unterbrechung | X1429 |
| 260.900.040.480 | | | |

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Fig.50

| Fuse | Separation point | Components | Separation point |
|------|------------------|---------------------------------------|------------------|
| 01 | X200/10 | Hydrostat speed sensor | X163 |
| 02 | X200/11 | Bevel pinion speed sensor | X164 |
| 03 | X200/12 | Clutch pedal rotary position sensor | X166 |
| 04 | X200/14 | Control unit | X181 Euro |
| 05 | X200/4 | - | - |
| 06 | X201/11 | Position sensor linkage | X178 |
| 07 | X201/12 | Load sensor pin | X179 |
| 08 | X201/13 | Position sensor foot throttle | X898 |
| 09 | X201/6 | Steering angle sensor | X233 |
| 10 | X200/6 | High pressure sensor 1 | X157 |
| 11 | X200/9 | Engine speed sensor | X159 |
| 12 | X200/17 | Suspension rotary position sensor | X152 |
| 13 | X200/16 | Rear PTO speed sensor | X169 |
| 14 | X200/15 | Front PTO speed sensor | X151 |
| 15 | X200/5 | High pressure sensor 2 | X177 |
| 18 | X201/1 | Solenoid switch turboclutch interrupt | X142 |

19. Circuit diagrams

19.1 Legend for circuit diagrams

X001 to X9999 are electric couplers, butt-type connectors and other connectors.

| | | | |
|------|--|------|--|
| A007 | = Instrument cluster | B167 | = Inside temperature |
| A013 | = Fuseboards | B168 | = Steering angle sensor |
| A025 | = EPC control panel | E001 | = H4 headlamp, right |
| A026 | = Heater control panel | E002 | = H4 headlamp, left |
| A050 | = Electronics box EXT | E003 | = H4 right auxiliary headlight |
| A051 | = EDC Engine control | E004 | = H4 additional headlamp, left |
| A056 | = Radio | E005 | = Front right indicator |
| A067 | = Keypad front | E006 | = Front left indicator |
| A068 | = Multi-function control element | E009 | = Licence plate lamp, right |
| A070 | = ID-module (Sisu) | E010 | = Licence plate lamp, left |
| A074 | = Actuation unit | E013 | = Right front roof work light |
| A089 | = EGR actuator | E014 | = Left front roof work light |
| A119 | = Air-conditioning control unit | E015 | = Front work light on right turn signal indicator |
| A120 | = Roof blower control | E016 | = Front work light at left turn signal indicator |
| A123 | = Mini-hydraulics control panel | E019 | = Cab lighting |
| B002 | = Front PTO speed Hall sensor | E022 | = Rotating beacon left |
| B003 | = Suspension rotary position sensor | E042 | = Licence plate light ground / safety bar back |
| B004 | = Vacuum switch | E043 | = Auxiliary lighting safety frame right ground |
| B008 | = High pressure sensor | E044 | = Flashing position lamp safety frame right ground |
| B009 | = Discharge temperature sensor | E045 | = Flashing position lamp safety frame left ground |
| B010 | = Engine Hall sensor 1 | E046 | = Auxiliary lighting safety frame left ground |
| B014 | = Speed sensor, hydrostatic drive collector shaft | E047 | = Work light safety frame right ground |
| B015 | = Bevel pinion speed sensor | E048 | = Work light safety frame left ground |
| B017 | = Clutch pedal rotary position sensor | E056 | = Flashing position lamp right on top of roof ground |
| B019 | = Compressed air supply pressure sensor | E057 | = Flashing position lamp right on top of roof ground |
| B020 | = Rear PTO rpm Hall sensor | E058 | = Work light right on top of roof ground |
| B30 | = Measured value, position sensor | E059 | = Work light right on top of roof ground |
| B031 | = Draft sensing pin | E060 | = Auxiliary lighting safety frame left 56a |
| B035 | = Hand throttle rotary position sensor | E061 | = Auxiliary lighting safety frame left 56a |
| B039 | = High pressure sensor 2 pressure/thrust detection | E120 | = Left rear roof work light |
| B050 | = Loudspeaker, left | E121 | = Work light on roof, right rear |
| B051 | = Loudspeaker, right | E126 | = Taillamp back left |
| B055 | = Position sensor foot throttle | E127 | = Taillamp back right |
| B080 | = Hydraulic oil temperature switch | E147 | = Lighting cab LED |
| B085 | = Speed camshaft | G001 | = Battery plus |
| B086 | = Pressure diesel / rail | G002 | = Alternator |
| B087 | = Sensor fuel low pressure (diesel) | H005 | = Horn |
| B088 | = Speed crankshaft | H006 | = Buzzer |
| B089 | = Temperature coolant | H009 | = Buzzer reverse driving |
| B090 | = Pressure engine oil | K001 | = Relay +Vbatt 15 |
| B092 | = Temperature and pressure charge-air | K002 | = Relay +Vbatt 58 |
| B099 | = Temperature switch water temperature | | |
| B107 | = Hydraulic oil level switch | | |
| B130 | = Sensor fuel temperature | | |
| B133 | = Fuel level sensor | | |
| B165 | = Evaporator temperature | | |
| B166 | = Evaporator temperature | | |

CARE AND MAINTENANCE

| | | | |
|------|--|------|--|
| K004 | = Relay 56A | S127 | = High/low-pressure switch |
| K005 | = Relay 56B | S128 | = Roof blower switch |
| K007 | = Brake relay | S129 | = Air-conditioning switch |
| K009 | = Screen wipers pulse generator | U003 | = Foil antenna |
| K010 | = Turn flasher relay | Y004 | = Transmission solenoid neutral/turbo-clutch valve |
| K013 | = 3rd hydraulic circuit relay | Y008 | = Rear PTO solenoid valve |
| K060 | = Relay turboclutch valve | Y009 | = 4WD solenoid valve |
| K063 | = Relay heating flange | Y010 | = Differential lock solenoid valve |
| K068 | = Battery disconnect relay solenoid | Y011 | = Front PTO solenoid valve |
| K069 | = Lockout relay | Y013 | = Lower suspension solenoid |
| K071 | = Relay circuit 4 | Y014 | = Raise suspension solenoid |
| K074 | = Relay starter | Y023 | = Compressed air pilot control solenoid valve |
| K075 | = Relay fan pump (Sisu) | Y024 | = air-conditioning magnetic clutch |
| K086 | = Relay air-conditioning | Y026 | = Rear PTO stage 1 solenoid |
| M001 | = Starter 30 (jump start terminal) | Y027 | = Rear PTO stage 2 solenoid |
| M002 | = Front wiper motor | Y028 | = Rear PTO stage 3 solenoid |
| M003 | = Front windshield washer system pump | Y042 | = Valve 2, mini-hydraulics |
| M004 | = Rear window wiper motor | Y043 | = Valve 1, mini-hydraulics |
| M005 | = Screen washers pump, rear | Y044 | = Valve 3, mini-hydraulics |
| M007 | = Line coupling seat adjustment motor | Y045 | = Valve 6, mini-hydraulics |
| M009 | = Blower speeds 1 - 3 | Y046 | = Valve 5, mini-hydraulics |
| M012 | = Heating unit | Y047 | = Valve 4, mini-hydraulics |
| M013 | = Heater pump | Y050 | = Hydraulics collector valve |
| M019 | = Fuel pump (Sisu) | Y089 | = Solenoid trailer brake load transfer |
| M028 | = Condenser blower 1 | Y091 | = Metering unit |
| M029 | = Condenser blower 2 | Y095 | = Injector1 |
| M030 | = Condenser blower 3 | Y096 | = Injector2 |
| M031 | = Roof blower (infinitely adjustable) | Y097 | = Injector3 |
| M032 | = Heating valve with position sensor | Y102 | = EPC valve |
| N001 | = Amplifier (foil antenna) | Y103 | = Yellow valve |
| R002 | = Heating flange ground connection | Y104 | = Blue valve |
| S002 | = Ignition-starter switch | Y105 | = Red valve |
| S003 | = Driving lamps pushbutton | Y106 | = Green valve |
| S004 | = Hazard warning light pushbutton | Y107 | = Brown valve |
| S005 | = Right brake solenoid switch | Y108 | = White valve |
| S006 | = Left brake solenoid switch | Y122 | = Solenoid valve cooler bypass |
| S007 | = Additional lighting pushbutton | | |
| S008 | = Front work lights switch | | |
| S009 | = Rear work lights switch | | |
| S010 | = Rear wiper motor switch | | |
| S011 | = Rotating beacon switch | | |
| S015 | = Hand brake switch | | |
| S017 | = Filter contamination switch | | |
| S019 | = PTO ON key, rear left | | |
| S029 | = External Raise button, left | | |
| S030 | = External Lower button left | | |
| S037 | = Blower switch | | |
| S048 | = Rear screen heater switch | | |
| S053 | = Seat switch | | |
| S059 | = Pressure switch Italian brake | | |
| S070 | = Rate detection | | |
| S074 | = Solenoid switch starter lockout switch and turboclutch interrupt | | |
| S092 | = Disconnect switch battery disconnect relay | | |
| S102 | = Switch Twin Power work light | | |
| S117 | = Steering column switch | | |

19.2 Colour identification of electric wires

| Colour of wire | Abbreviation | Mark |
|----------------------------------|--------------|----------------------------------|
| white (with black printing) | ws | General colour of wires |
| red | rt | + Vbatt 30 |
| green | gn | + Vbatt 15 |
| yellow | ge | + Vbatt 15E |
| grey (basic colour for lighting) | gr | + Vbatt 58 |
| grey - black | gr-sw | + Vbatt 58 lighting left |
| grey - red | gr-rt | + Vbatt 58 lighting right |
| yellow | ge | + Vbatt power supply |
| brown | br | vehicle body ground |
| brown - white | br-ws | Electronics ground |
| brown - yellow | br-ge | Sensors ground |
| black - green | sw-gn | Right side turn signal indicator |
| black - white | sw-ws | Left side turn signal indicator |
| orange | or | Additional wiring |
| blue | bl | |
| pink | rs | |
| turquoise | tk | |
| violet | vi | |

19.3 Circuit diagrams

List of circuit diagrams

- Sheet 2 = Overview base control unit EXT
- Sheet 3 = Overview engine control unit EDC
- Sheet 4 = Overview instr. cluster, transmission control unit, EPC control panel, mini-hydraulics control panel, keypad, multi-function control element MFB
- Sheet 5 = Overview microfuse
- Sheet 6 = Supply
- Sheet 7 = Power supply electronic system
- Sheet 8 = Grounding layout
- Sheet 9 = STVZO, lighting
- Sheet 10 = Safety frame variant
- Sheet 11 = Flasher and position lamp top of roof
- Sheet 12 = Turn signal indicator
- Sheet 13 = Brake lamp, trailer brake
- Sheet 14 = Wipers, rotating beacon
- Sheet 15 = Work lamps
- Sheet 16 = Cab lighting, radio
- Sheet 17 = Heater, ventilation, air-conditioning
- Sheet 18 = Variant low roof heating
- Sheet 19 = Load sockets, seat compressor
- Sheet 20 = Implement socket, event counter
- Sheet 21 = Instr. cluster
- Sheet 22 = EPC power lift control
- Sheet 23 = Enhanced control BUS
- Sheet 24 = Transmission bus
- Sheet 25 = Valve bus
- Sheet 26 = Hydraulics, hydraulic circuit 3, hydraulic circuit 4
- Sheet 27 = 4WD and differential lock
- Sheet 28 = Suspension
- Sheet 29 = PTO
- Sheet 30 = Transmission control
- Sheet 31 = Engine control EDC
- Sheet 32 = Engine control SISU
- Sheet 33 = Relay block
- Sheet 34 = Air-conditioning HV
- Sheet 35 = Air-conditioning simple HVAC

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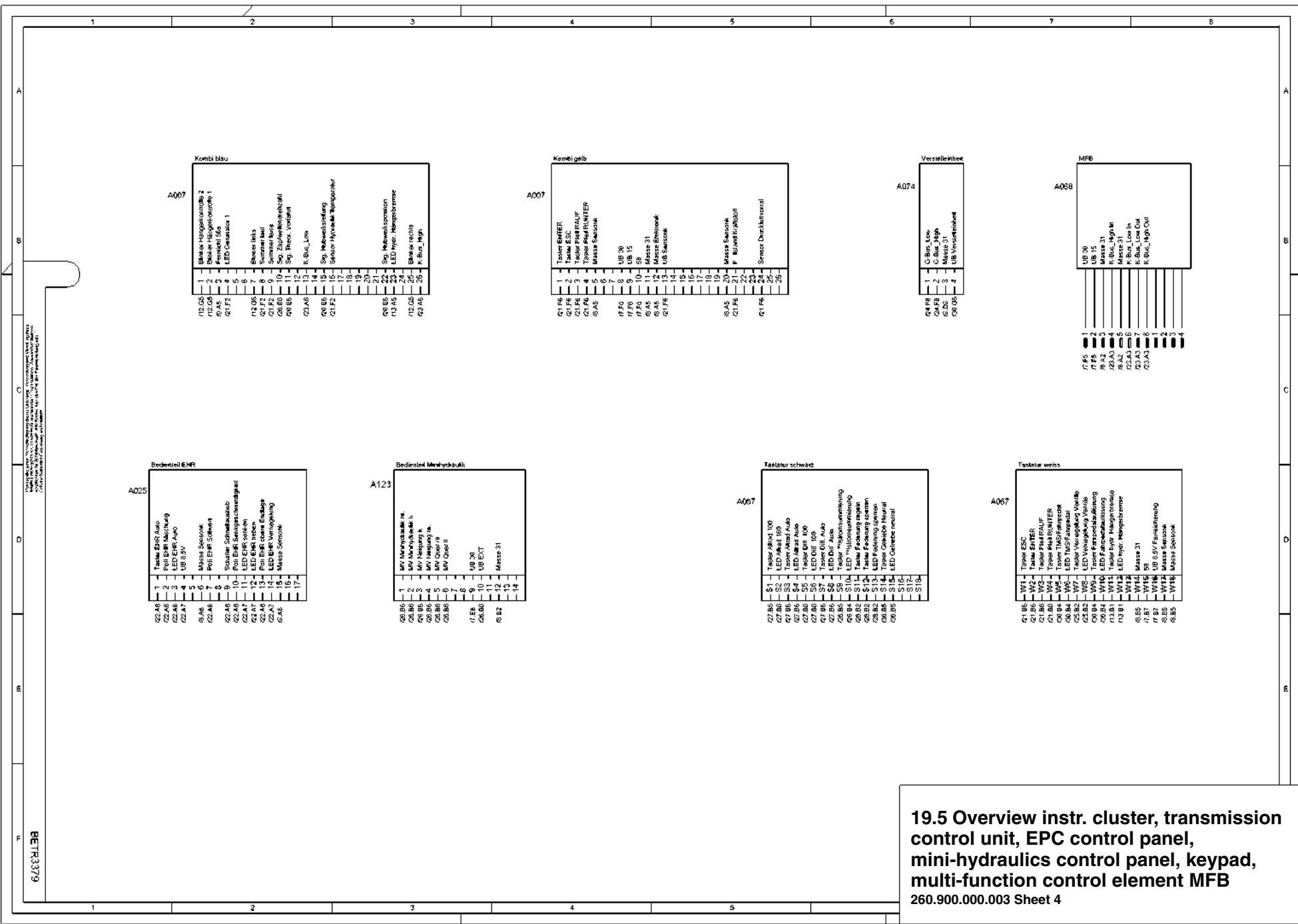
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| EDC | A051 |
|-----|----------------------|
| A1 | UB 30 |
| A2 | UB 30 |
| A3 | UB 30 |
| A4 | Messe 31 |
| A5 | Messe 31 |
| A6 | Messe 31 |
| A7 | UB 30 |
| A8 | UB 30 |
| A9 | Messe 31 |
| A10 | Messe 31 |
| A11 | Messe 31 |
| A12 | Messe 31 |
| A13 | Messe 31 |
| A14 | Messe 31 |
| A15 | Messe 31 |
| A16 | Messe 31 |
| A17 | Relais Start Pn 2 |
| A18 | UB 30 |
| A19 | UB 30 |
| A20 | UB 30 |
| A21 | UB 30 |
| A22 | UB 30 |
| A23 | UB 30 |
| A24 | UB 30 |
| A25 | UB 30 |
| A26 | UB 30 |
| A27 | UB 30 |
| A28 | UB 30 |
| A29 | Messe Digital Module |
| A30 | Messe Digital Module |
| A31 | Messe Digital Module |
| A32 | Schleife Ansaugrohr |
| A33 | Schleife Ansaugrohr |
| A34 | Schleife Ansaugrohr |
| A35 | G-Bus_Low |
| A36 | G-Bus_High |
| A37 | G-Bus_High |
| A38 | G-Bus_High |
| A39 | G-Bus_High |
| A40 | G-Bus_High |
| A41 | G-Bus_High |
| A42 | G-Bus_High |
| A43 | G-Bus_High |
| A44 | G-Bus_High |
| A45 | G-Bus_High |
| A46 | G-Bus_High |
| A47 | G-Bus_High |
| A48 | G-Bus_High |
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| A76 | G-Bus_High |
| A77 | G-Bus_High |
| A78 | G-Bus_High |
| A79 | G-Bus_High |
| A80 | G-Bus_High |
| A81 | G-Bus_High |
| A82 | G-Bus_High |
| A83 | G-Bus_High |
| A84 | G-Bus_High |
| A85 | G-Bus_High |
| A86 | G-Bus_High |
| A87 | G-Bus_High |
| A88 | G-Bus_High |
| A89 | G-Bus_High |

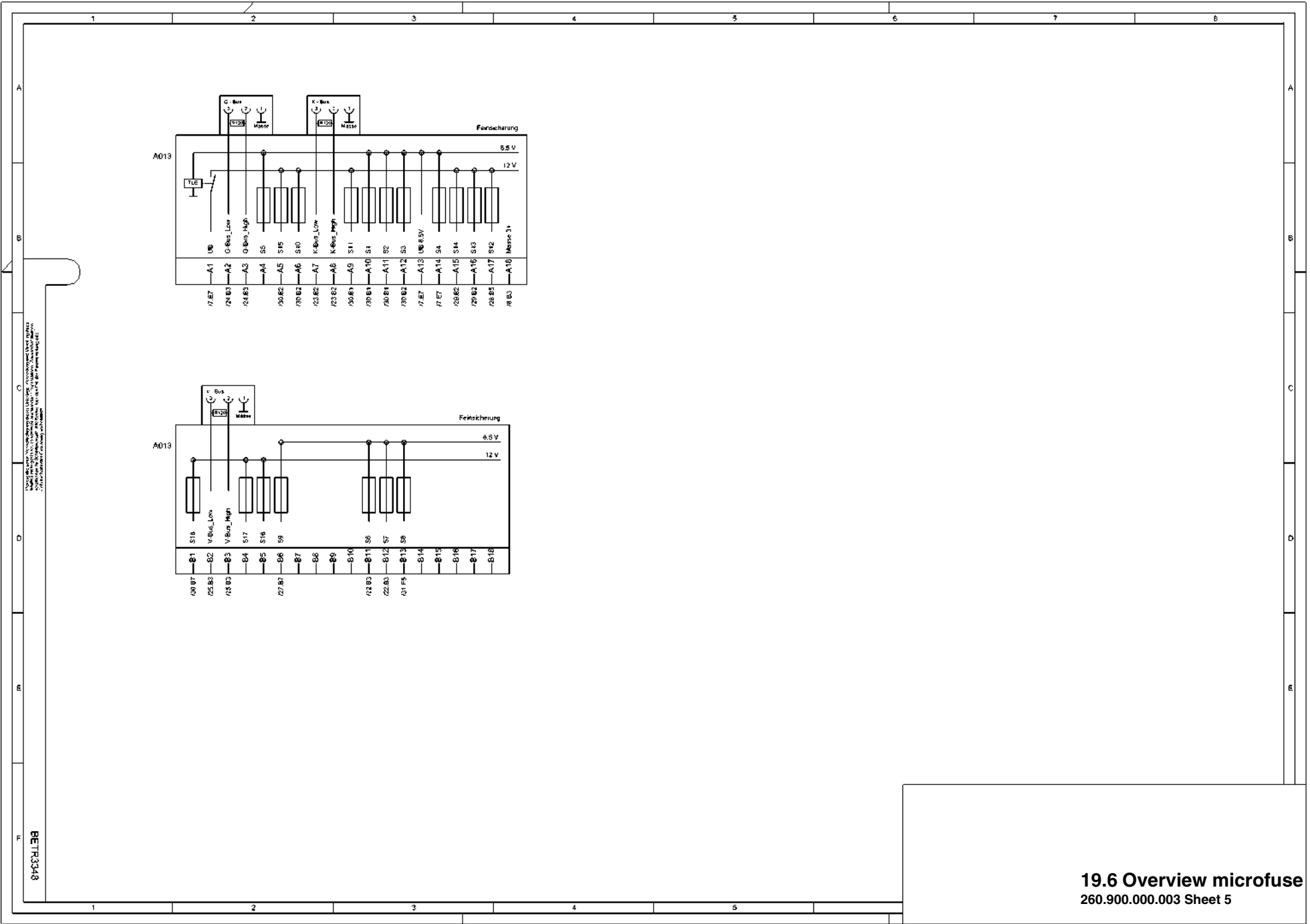
| EDC | A051 |
|-----|------------------|
| B1 | Relais Heblensch |
| B2 | Relais Heblensch |
| B3 | Relais Heblensch |
| B4 | Relais Heblensch |
| B5 | Relais Heblensch |
| B6 | Relais Heblensch |
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| B44 | Relais Heblensch |
| B45 | Relais Heblensch |
| B46 | Relais Heblensch |
| B47 | Relais Heblensch |
| B48 | Relais Heblensch |
| B49 | Relais Heblensch |
| B50 | Relais Heblensch |

| EDC | A051 |
|-----|-----------------|
| C1 | Injektor 1 High |
| C2 | Injektor 1 High |
| C3 | Injektor 1 High |
| C4 | Injektor 1 High |
| C5 | Injektor 1 High |
| C6 | Injektor 1 High |
| C7 | Injektor 1 High |
| C8 | Injektor 1 High |
| C9 | Injektor 1 High |
| C10 | Injektor 1 High |
| C11 | Injektor 1 High |
| C12 | Injektor 1 High |
| C13 | Injektor 1 High |
| C14 | Injektor 1 High |
| C15 | Injektor 1 High |
| C16 | Injektor 1 High |

19.4 Overview engine control unit EDC
260.900.000.003 Sheet 3

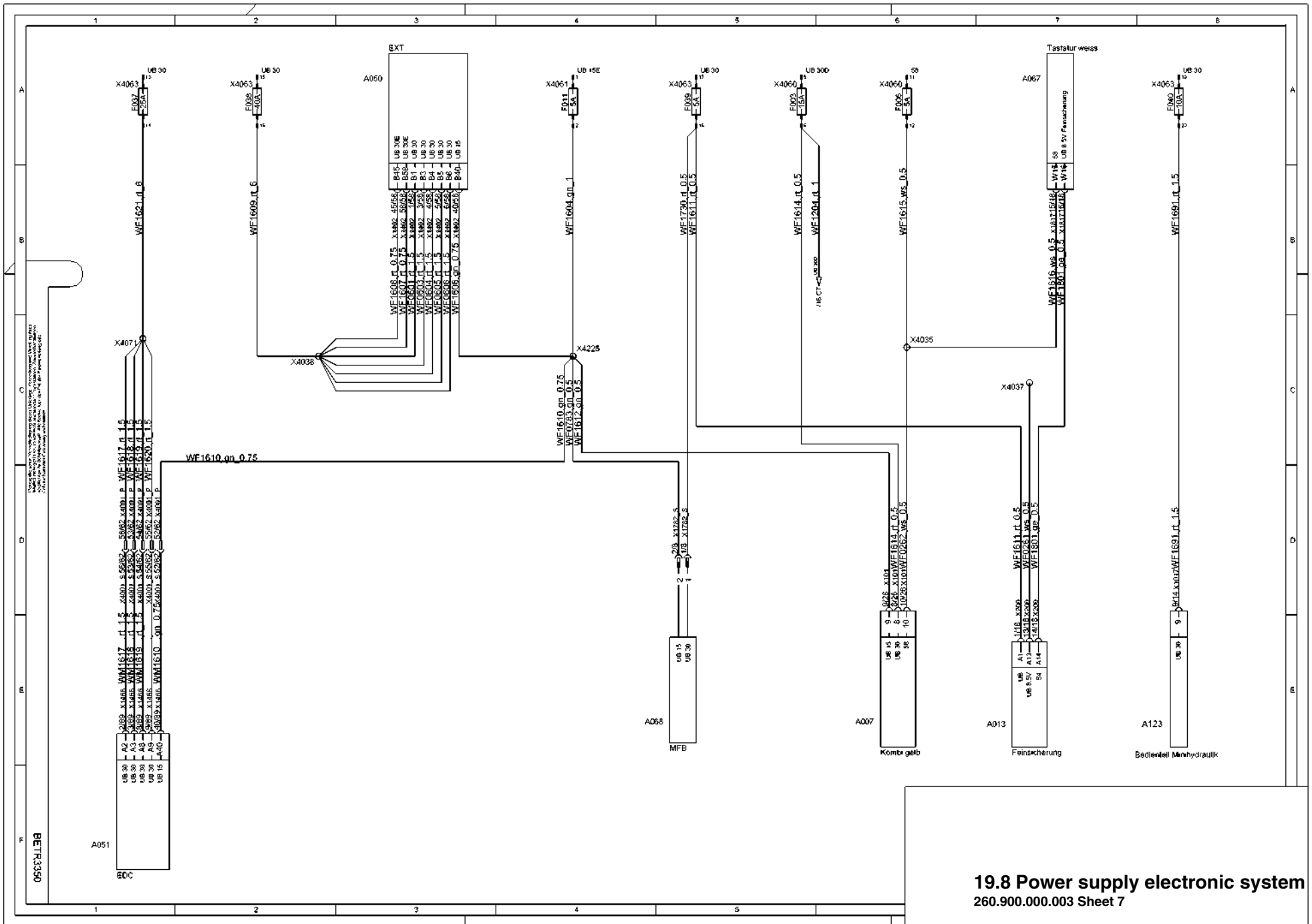


19.5 Overview instr. cluster, transmission control unit, EPC control panel, mini-hydraulics control panel, keypad, multi-function control element MFB
260.900.000.003 Sheet 4

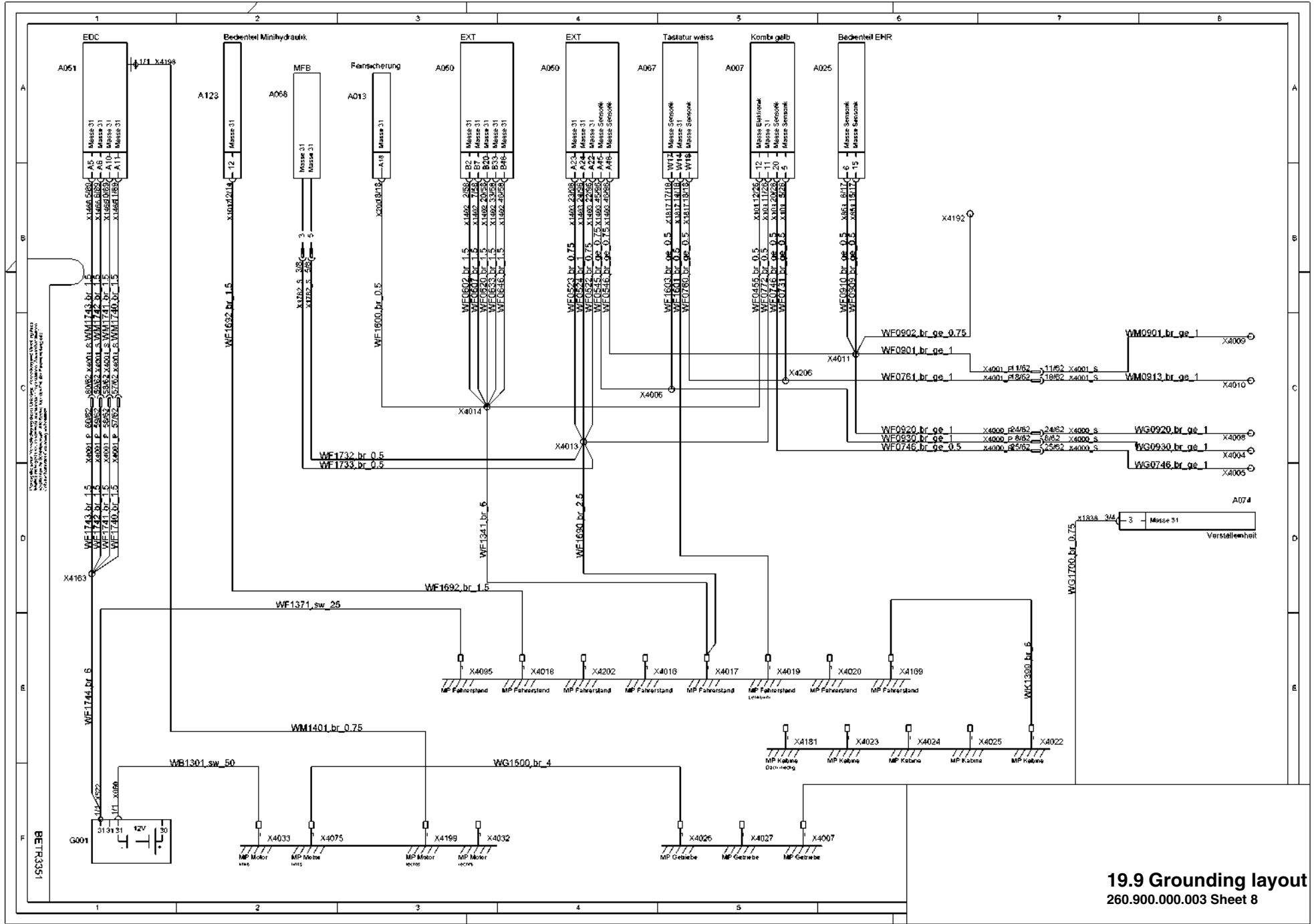


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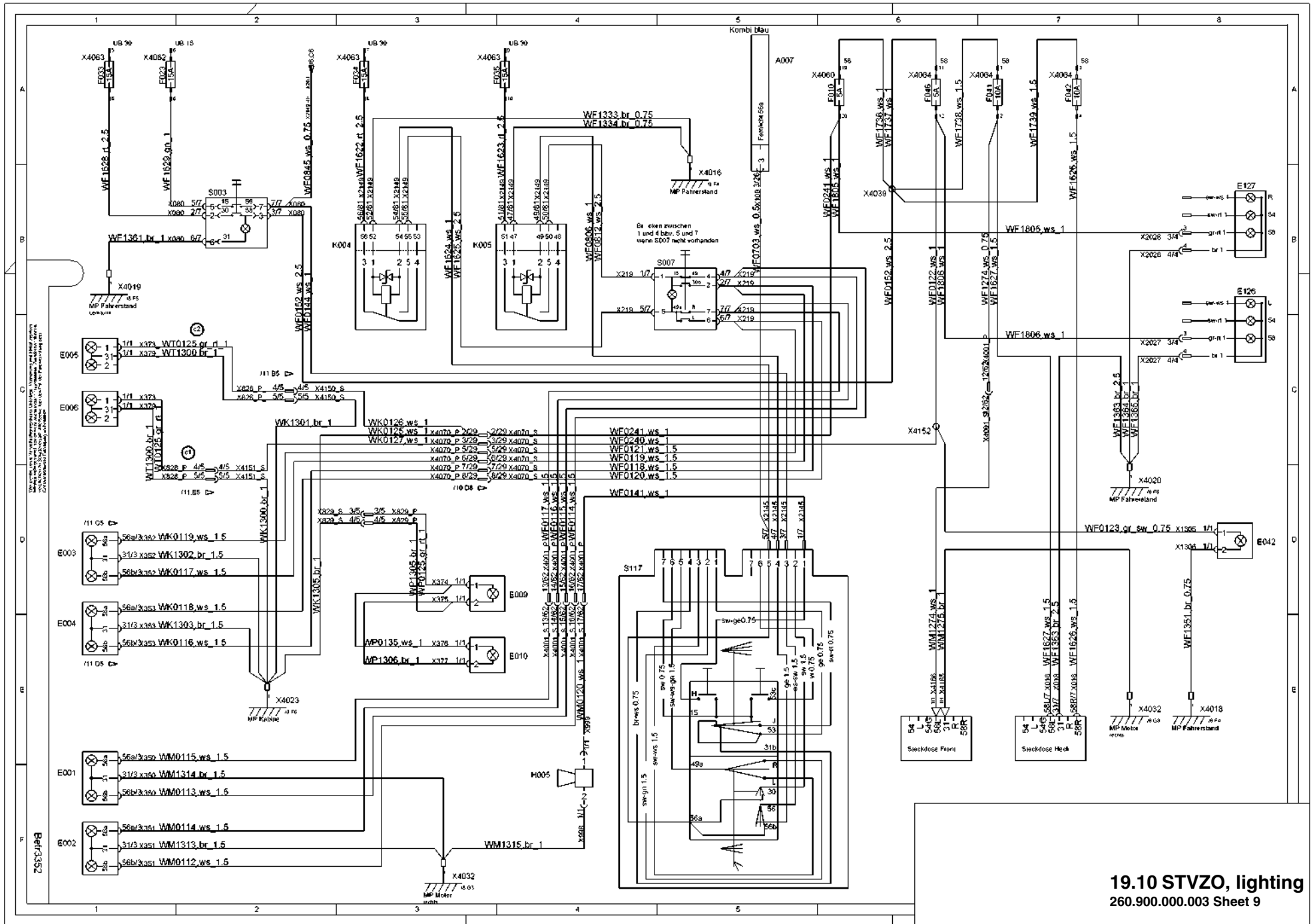
19.6 Overview microfuse
260.900.000.003 Sheet 5



19.8 Power supply electronic system
260.900.000.003 Sheet 7

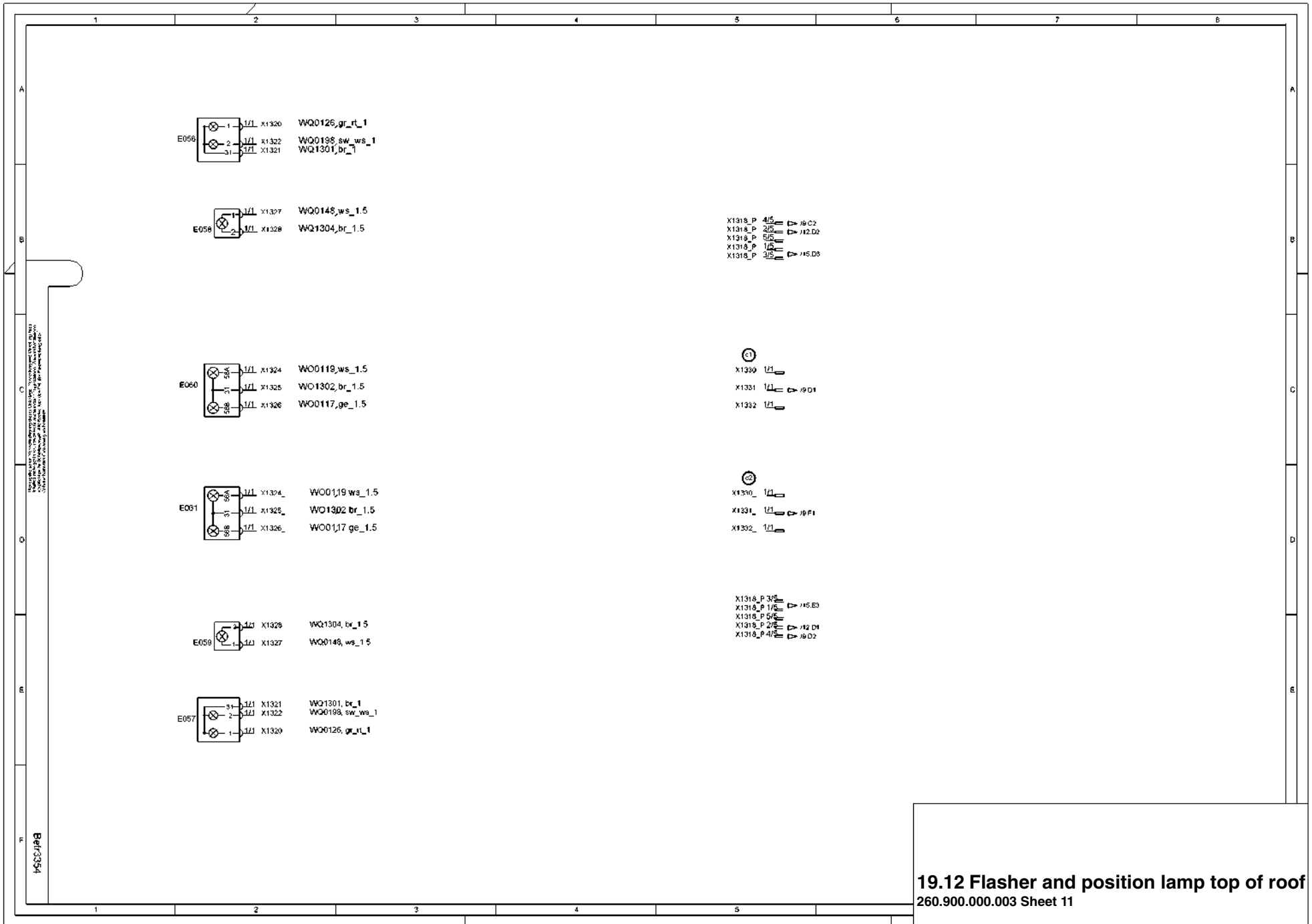


19.9 Grounding layout
260.900.000.003 Sheet 8



19.10 STVZO, lighting
260.900.000.003 Sheet 9

CARE AND MAINTENANCE

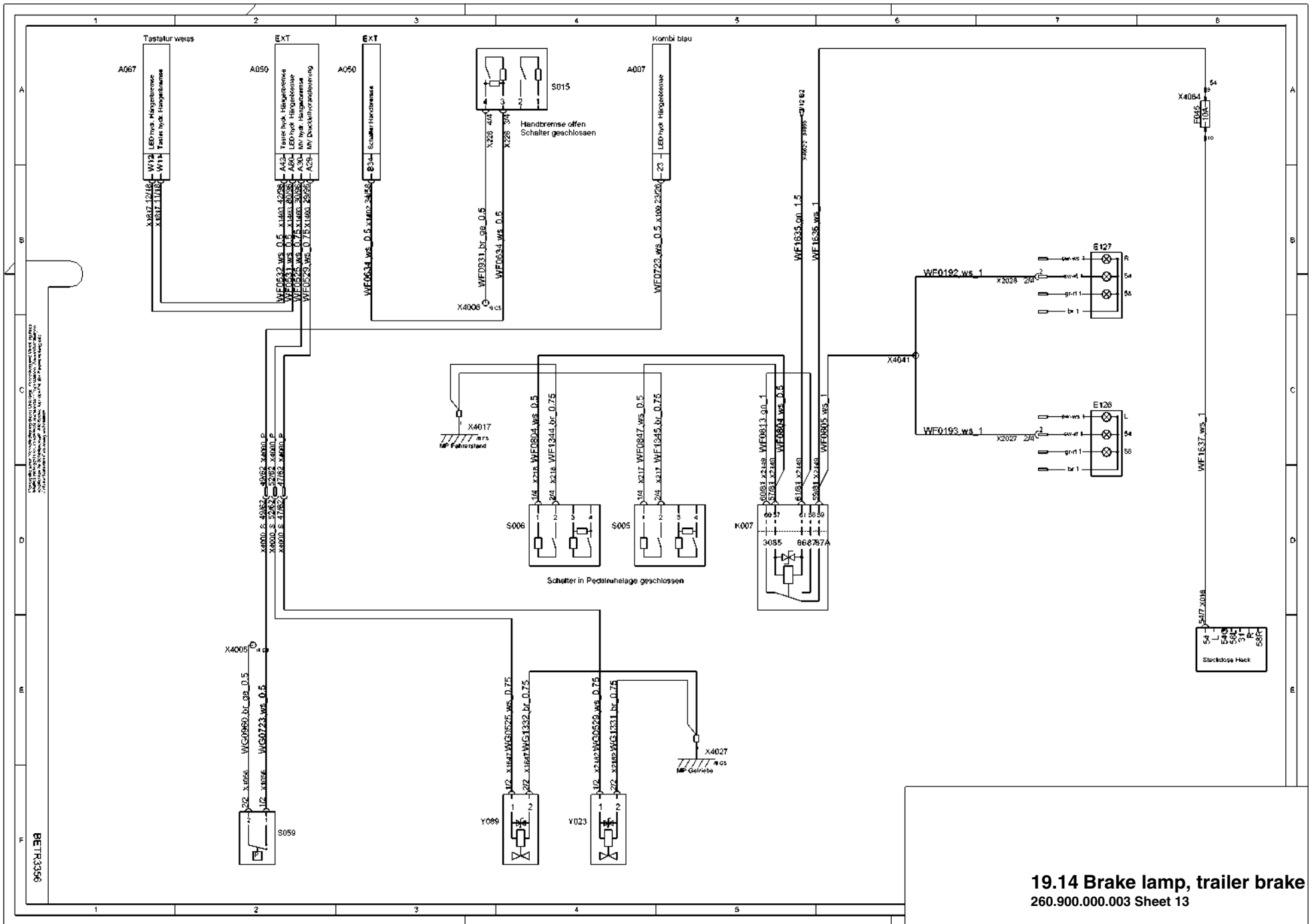


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19.12 Flasher and position lamp top of roof
260.900.000.003 Sheet 11

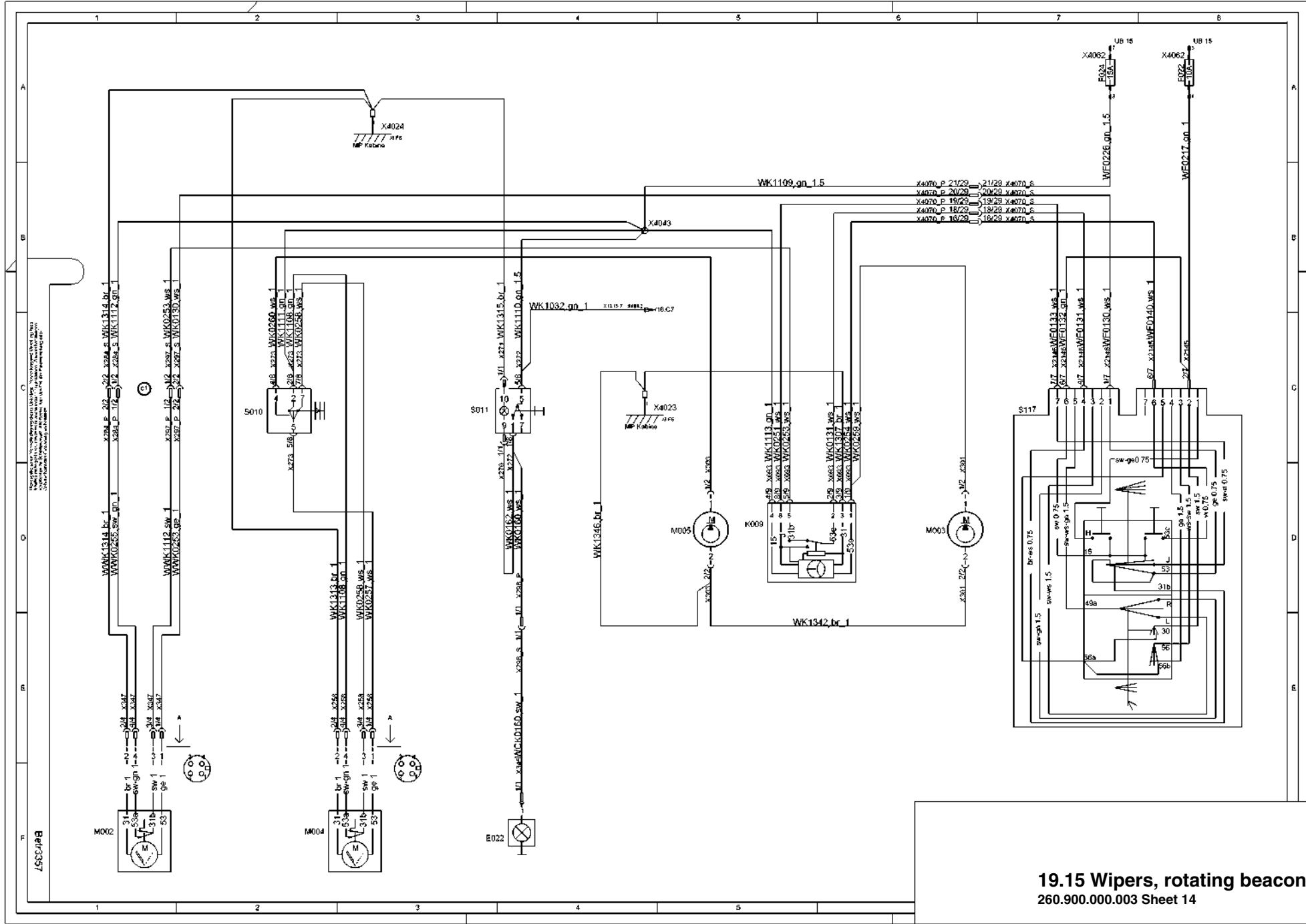
CARE AND MAINTENANCE

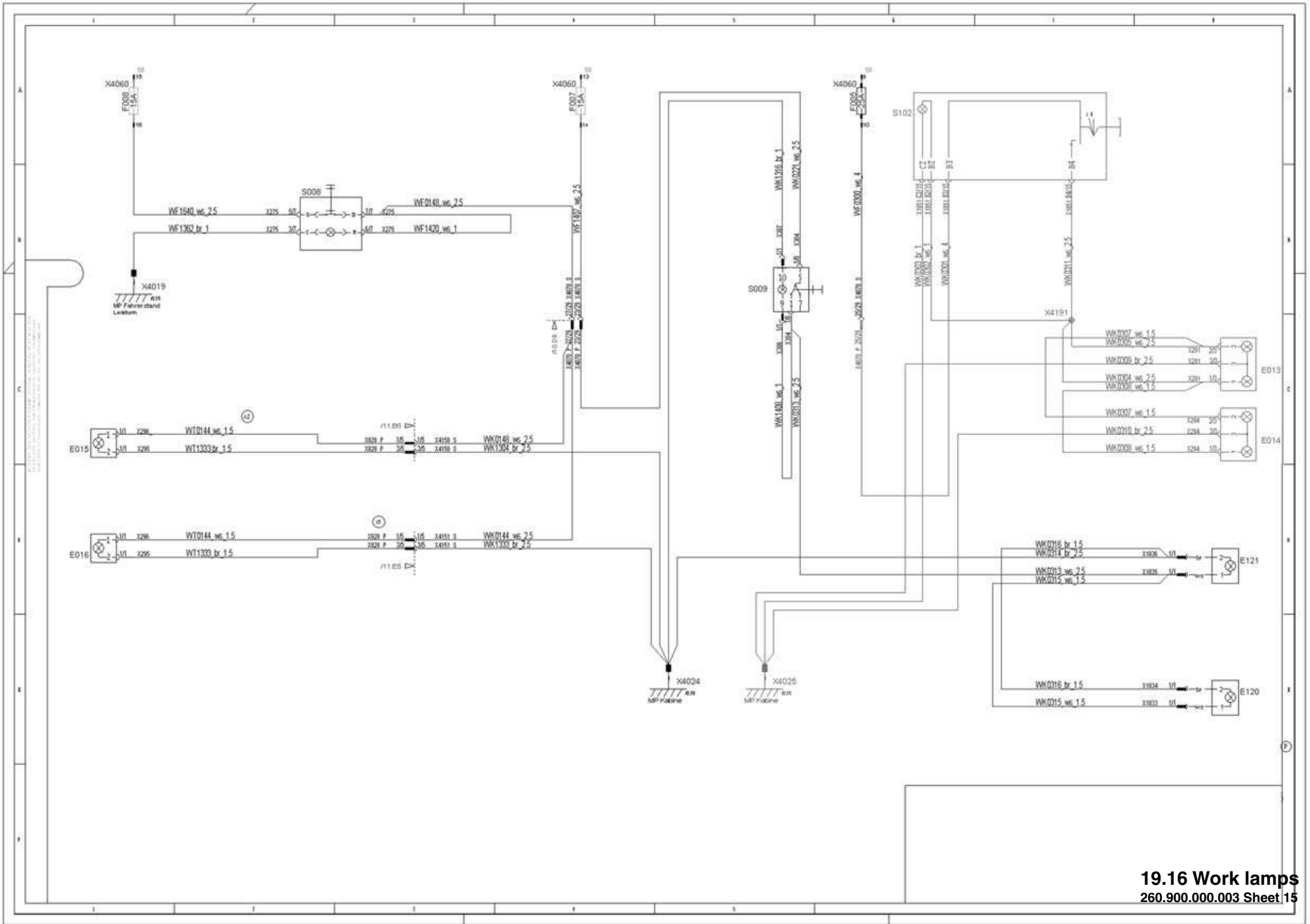


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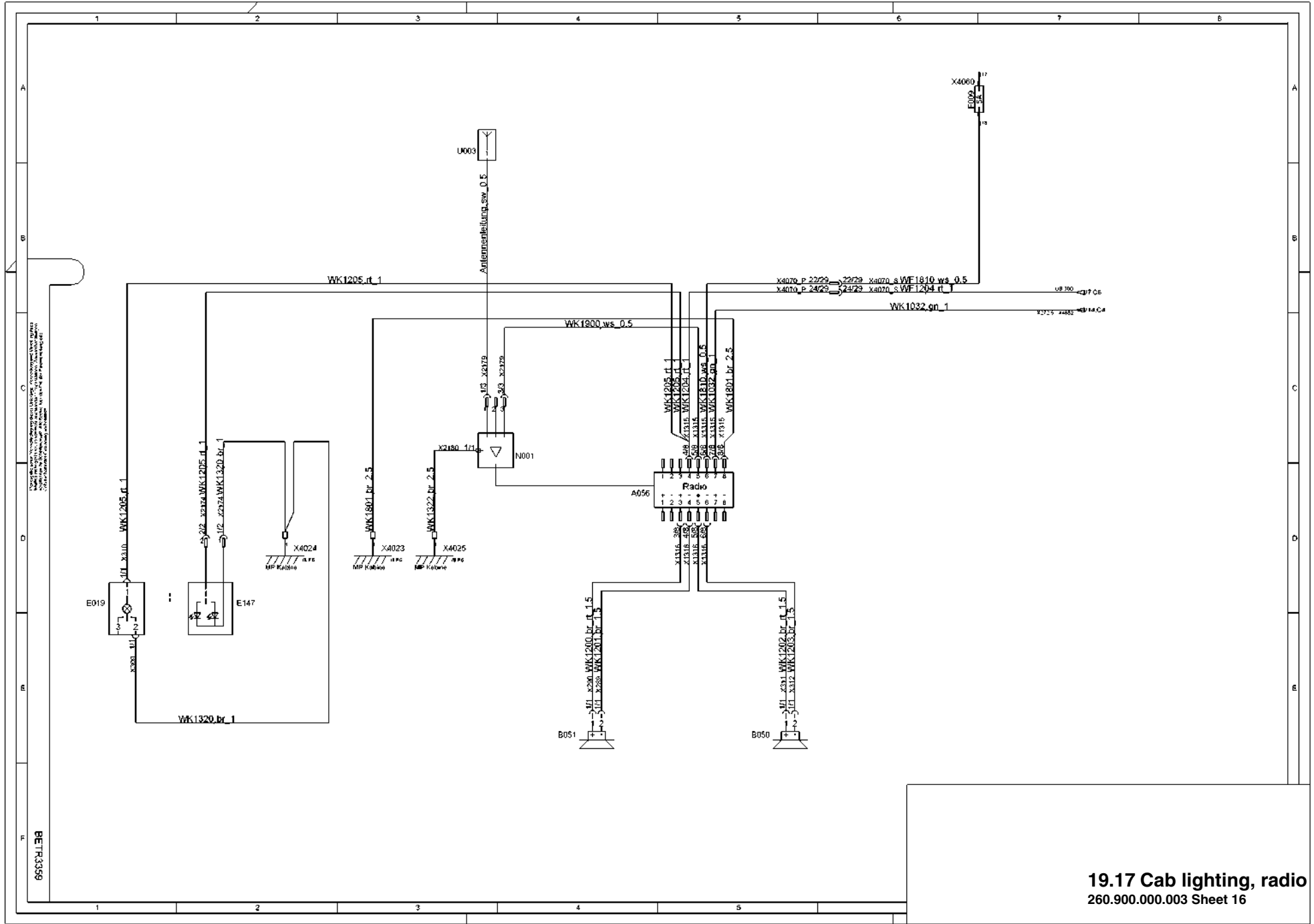
19.14 Brake lamp, trailer brake
260.900.000.003 Sheet 13

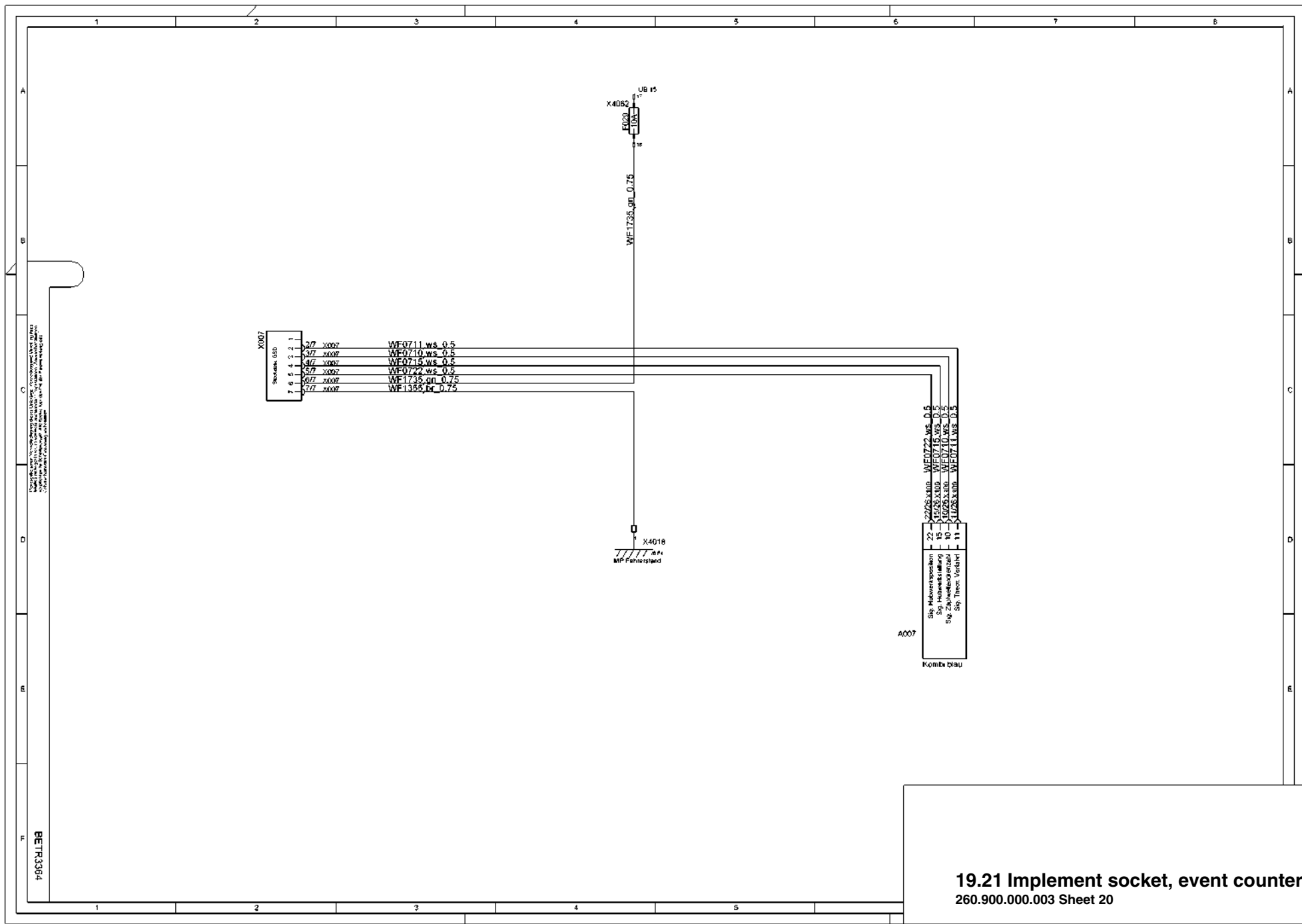
CARE AND MAINTENANCE

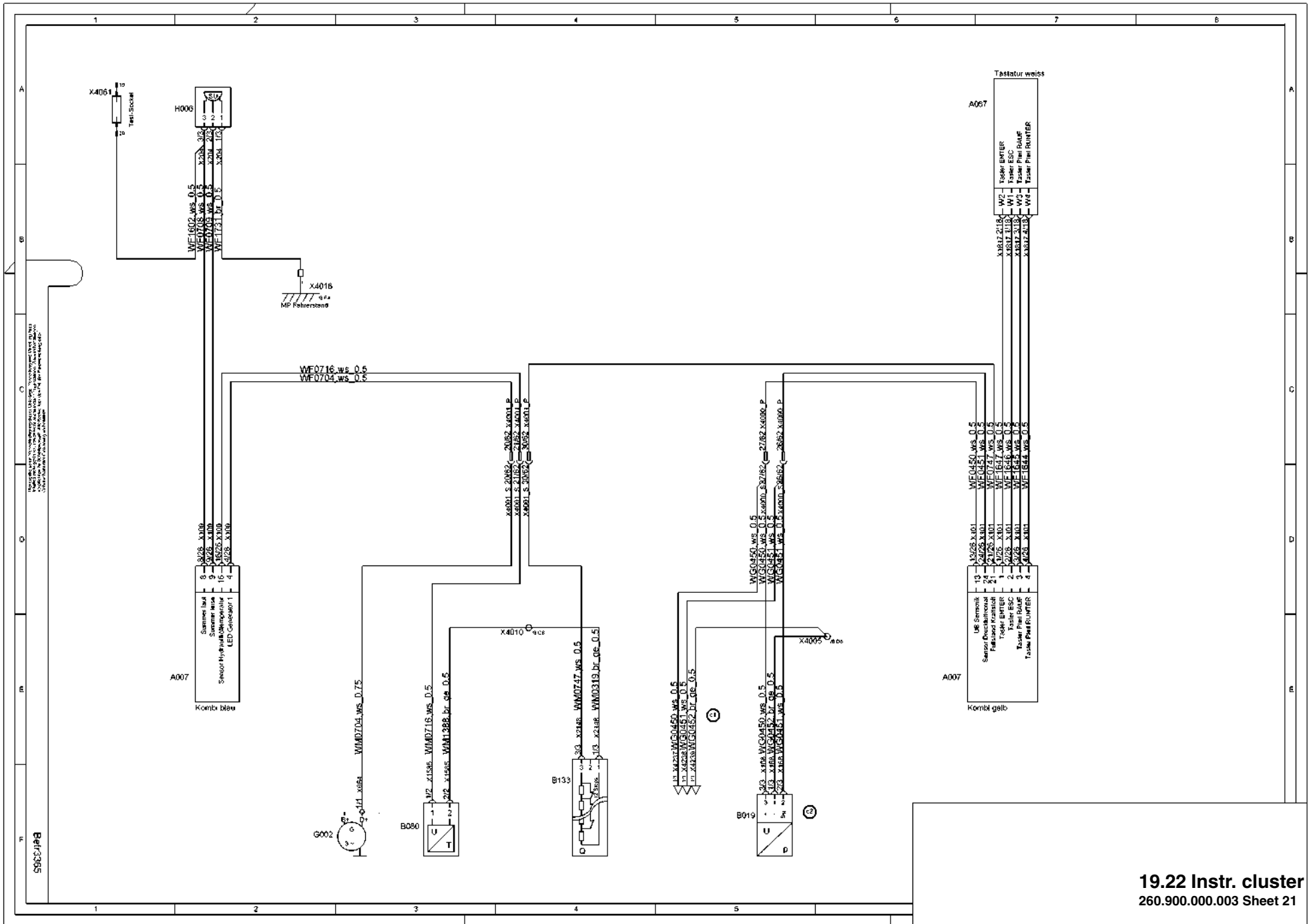




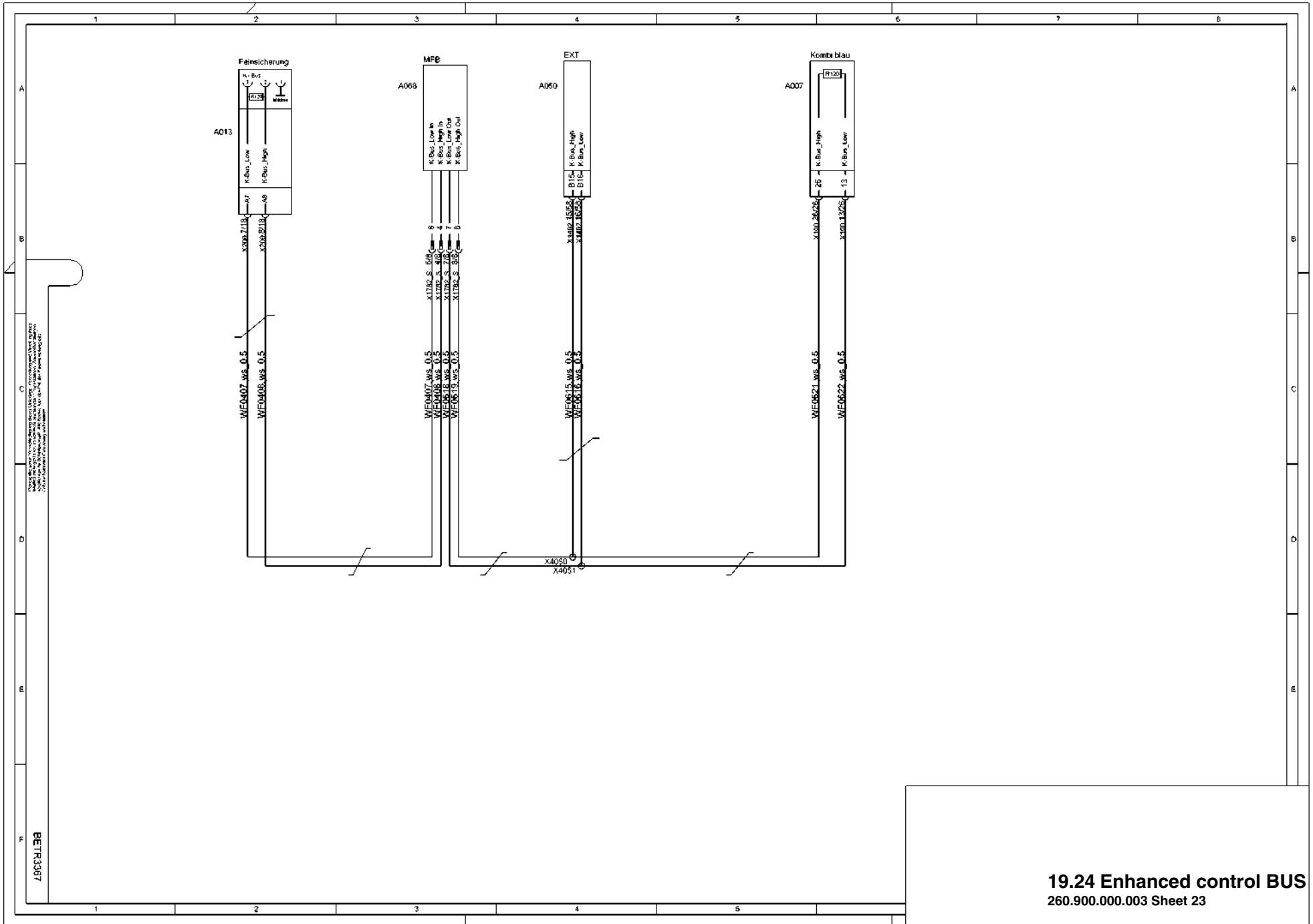
19.16 Work lamps
 260.900.000.003 Sheet 15





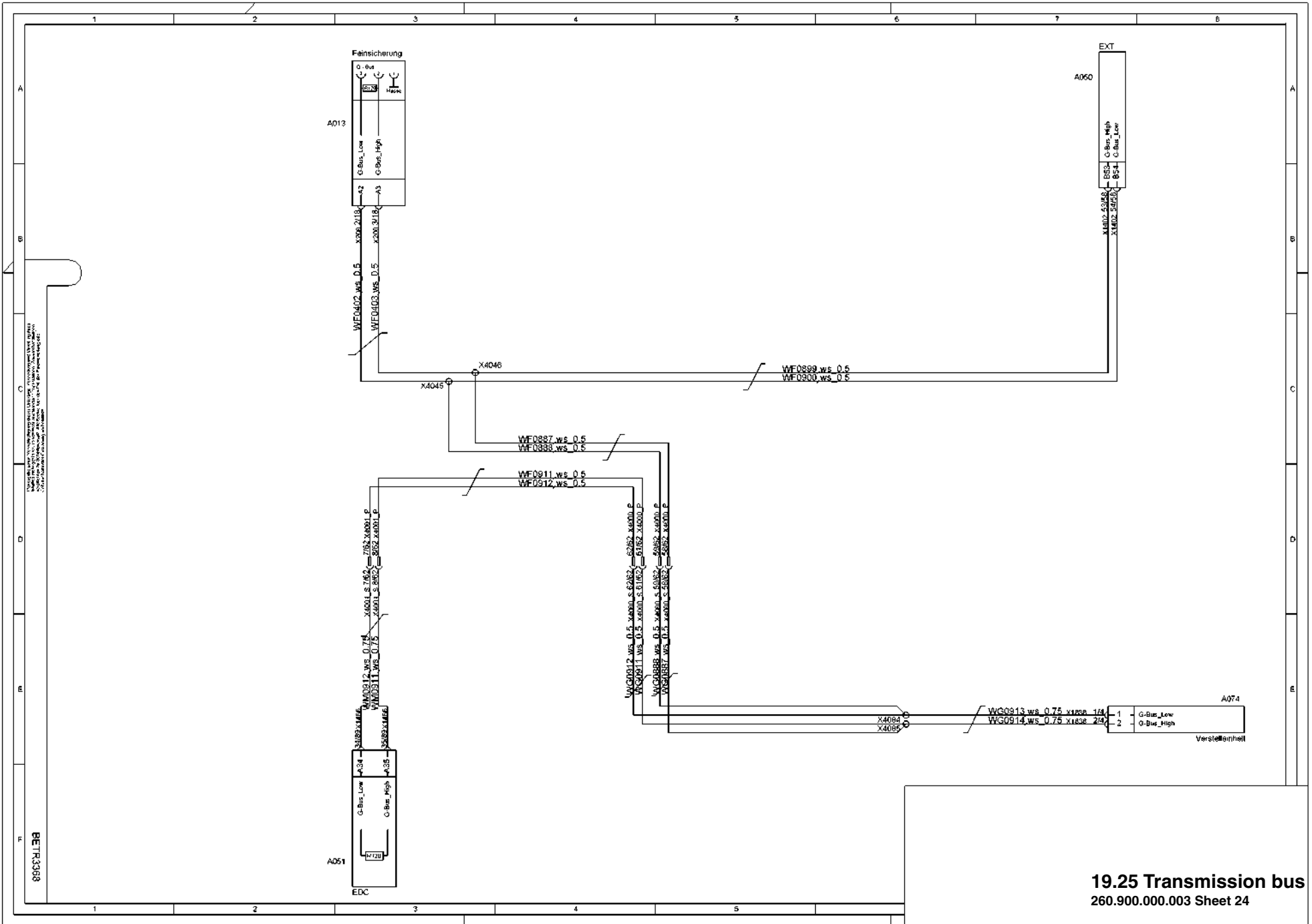


19.22 Instr. cluster
260.900.000.003 Sheet 21

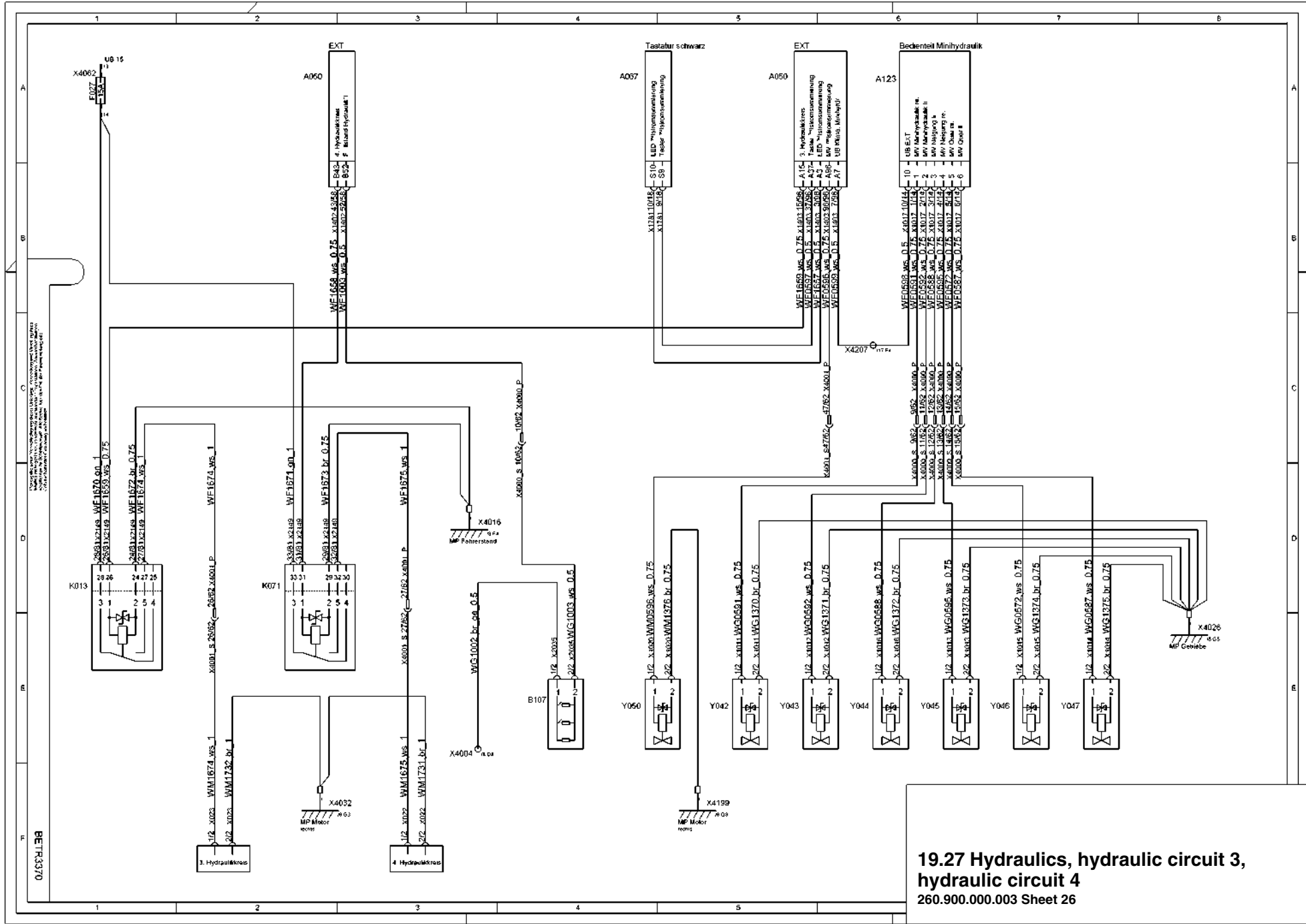


BETR.3397

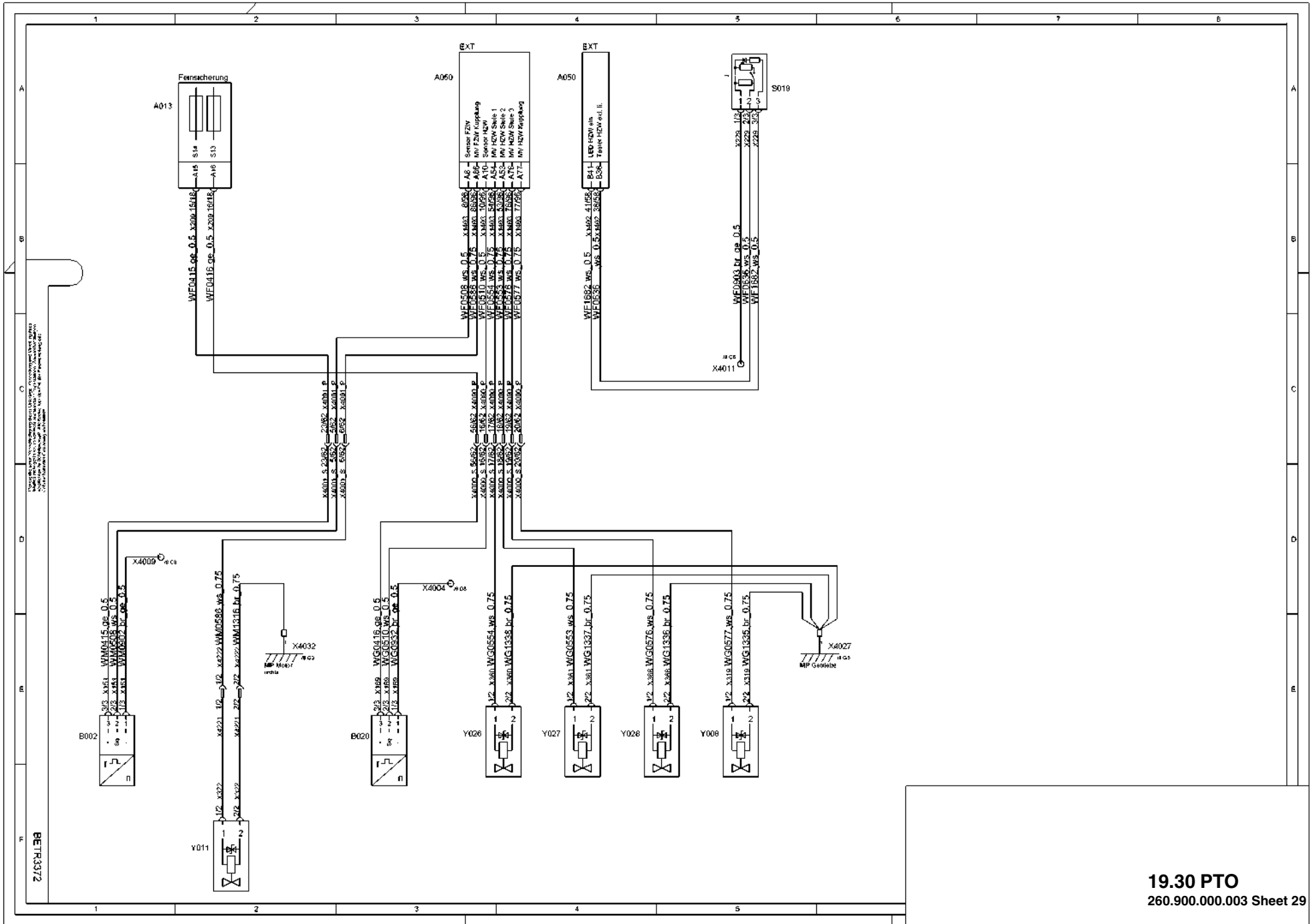
19.24 Enhanced control BUS
260.900.000.003 Sheet 23



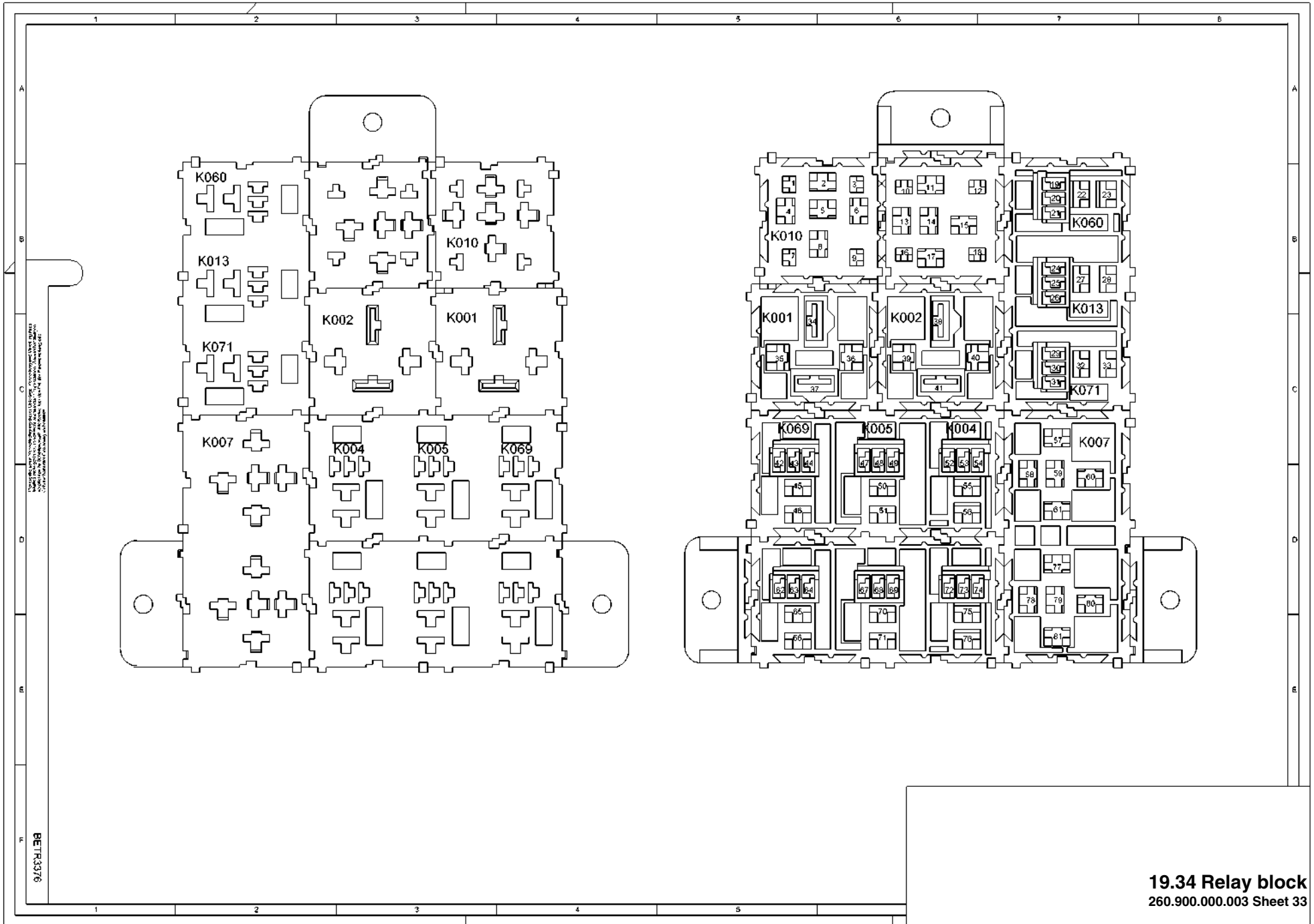
19.25 Transmission bus
 260.900.000.003 Sheet 24



19.27 Hydraulics, hydraulic circuit 3, hydraulic circuit 4
 260.900.000.003 Sheet 26



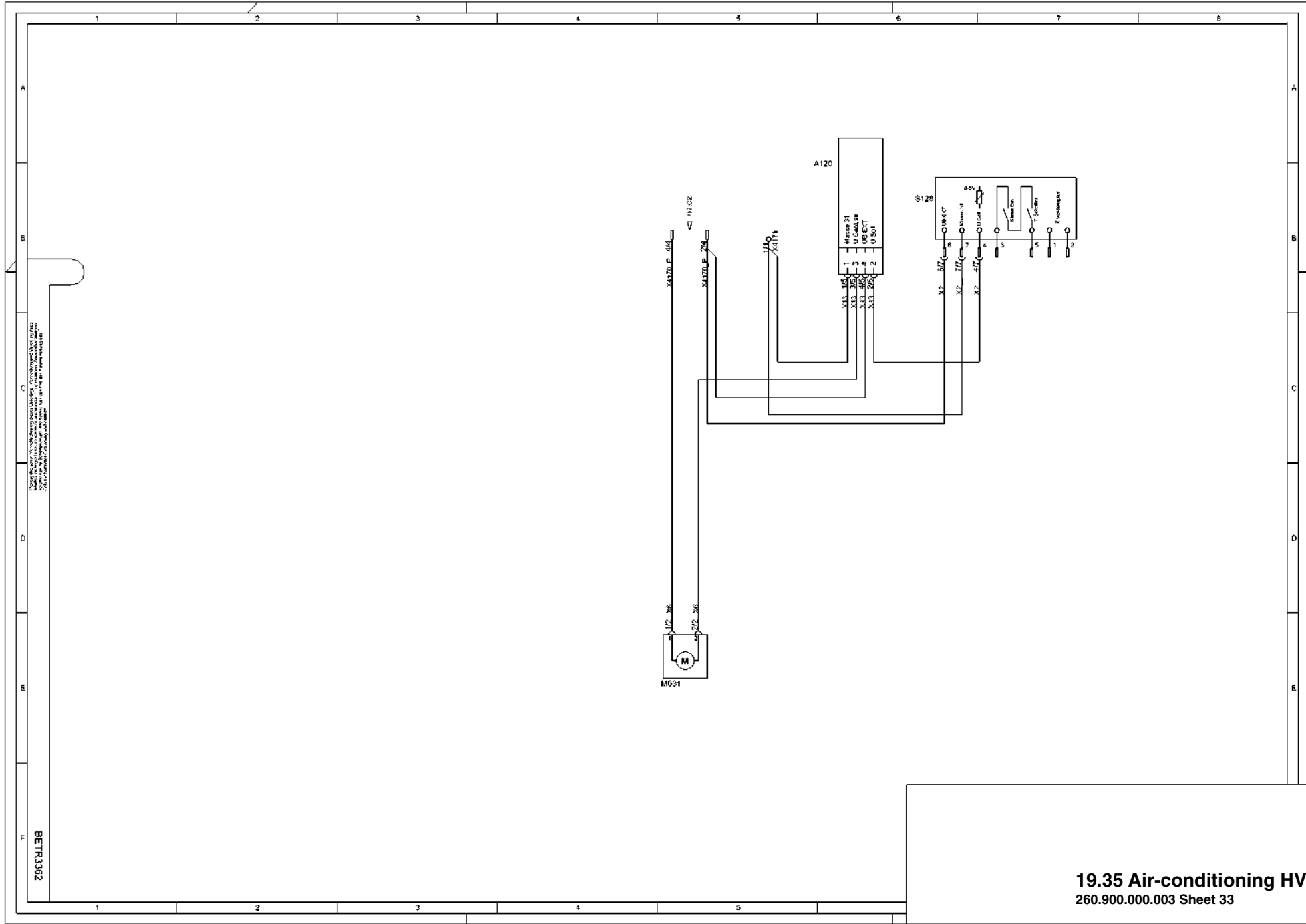
BETR.3372



1. 2. 3. 4. 5. 6. 7. 8.
 A. B. C. D. E.

BETR3376

19.34 Relay block
 260.900.000.003 Sheet 33



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1. This diagram is for reference only. It is not to be used for repair or maintenance work. Always refer to the original manufacturer's instructions for proper installation and operation.

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19.35 Air-conditioning HV
260.900.000.003 Sheet 33

