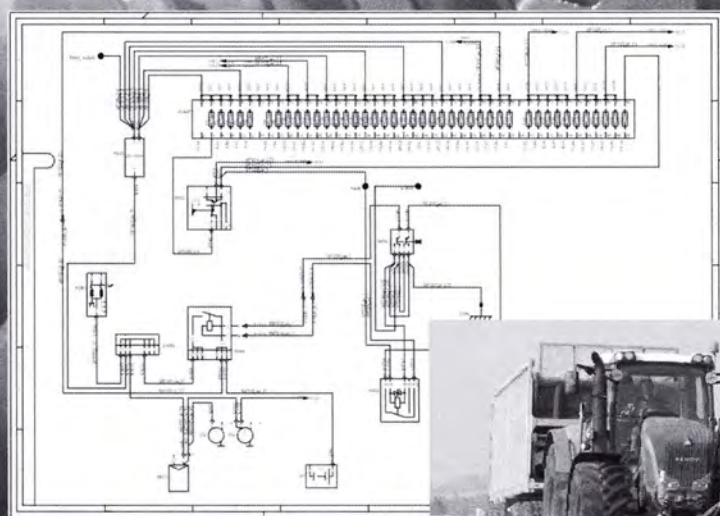


Electrical and hydraulic circuit diagrams

FENDT 900 Vario COM III

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925 .. 2054-
928 .. 2291-
931 .. 1908-
934 .. 2790-



M000290

X990.005.469.010 -Englisch



Edition
11/2008

Electrical and hydraulic circuit diagrams

9000 Overall system/electrical system

C Documents and diagrams

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9000 Electrical system/overall system

C Documents and diagrams

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19	STVZO/work light/air conditioning - Sheet 20	37
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1005 Transmission/transmission control system

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9600 Overall system/hydraulic equipment

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1 Fuse assignment

DANGER: Use only genuine fuses! The use of over-rated fuses will destroy the electrical unit! Fire hazard!

- X1440** - Fuse holder (A)
- A013** - PCB, microfuses (B)

 Remove panel from right side of cab

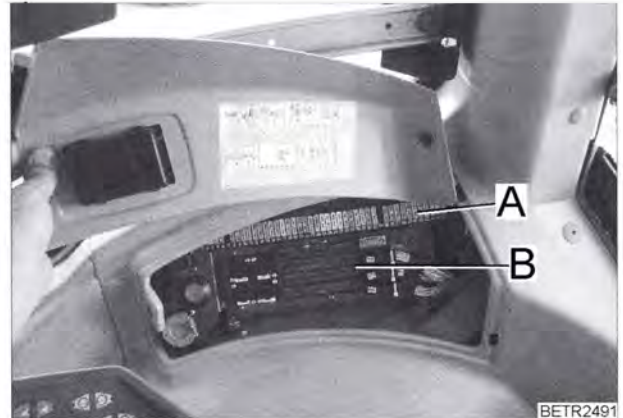
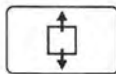


Fig. 1. BETR2491
1001035

A038 - ECU, central electrical system

 Remove panel from right side of cab

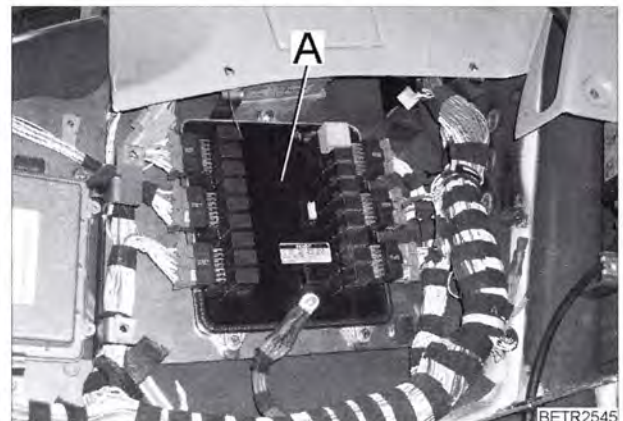


Fig. 2. BETR2545
1001044

NOTE: When working on the **A038** - ECU, central electrical system Disconnect the battery










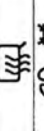
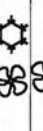
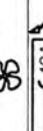


Nr.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
PIN	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Value(A)	15	25	15	25	40	10		10	5	15	15	15	15	15	15	15	25	40	15	10	10	5	5
electrical Consumer																							

Fig. 3. **X1440** - Fuse holder (Fuse nos 1-23) BETR2496
1001045

Fuse no.	PIN	Value (A)	Consumer
1	-	-	-
2	30	25	Ignition switch
3	30	15	Transmission control unit
4	30	25	Engine control unit
5	30	40	EXT supply (E-box)
6	30	10	Multifunction armrest supply, Terminal
7	-	-	-
8	30	10	Terminal A1

Fuse no.	PIN	Value (A)	Consumer
9	30	5	Microfuse board supply, electric control panel, tachograph
10	30	15	External work light, front roof
11	30	15	Internal work light, front roof
12	30	15	Work light, A pillar
13	30	15	Work light, A pillar
14	30	15	Work light, corner light
15	30	15	External work light, rear roof
16	30	15	Internal work light, rear roof
17	30	25	Heated rear windscreen
18	30	15	Air conditioning system (fan)
19	30	15	Primary fan, air conditioning system
20	30	10	3. Hydraulic circuit
21	30	10	4. Hydraulic circuit
22	30	5	Autoguide
23	30	5	ISO socket (cab)(X028) and ISO diagnostics (X1539)













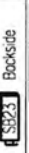



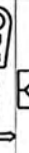

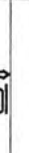



Nr.	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
PIN	30	30	30	30	30	30	30	30	30	30	30	15E	15E	15E	15E	15E	15L	15L	15L	15ZE	15ZE	15
Value(A)	25	25	25	25	15	10	15	15	15	5		10	10	5	10	10	5	10	5	10	15	10
electrical Consumer																						
931.901.042.331																						

Fig. 4. X1440 - Fuse holder (Fuse nos 24-45)

BETR2497
I001110

Fuse no.	PIN	Value (A)	Consumer
24	30	25	ABS socket
25	30	25	25 A socket
26	30	25	25 A socket
27	30	25	25 A socket
28	30	15	Internal work light, front roof
29	30	10	Rotating beacons
30	30	15	Work light, rear lamp
31	30	15	Work light, rear lamp
32	30	15	Cab light, radio
33	30	5	Instrument panel supply, disconnect relay ON
34	-	-	-
35	15E	10	Transmission emergency actuation
36	15E	10	Electronics supply, Terminal 15 ON
37	15E	5	Radar sensor, tachograph
38	15E	10	Electrical valves (SB23 centre connection)
39	15E	10	Electrical valves (SB23 rear connection)

Fuse no.	PIN	Value (A)	Consumer
40	15L	5	Implement socket (GSD), ISO socket (cab)
41	15L	10	10A socket, radio
42	15L	5	ABS socket
43	15ZE	10	Steering column switch supply
44	15ZE	10	Compressed air dryer
45	15ZSS	15	Seat, electric mirror adjustment

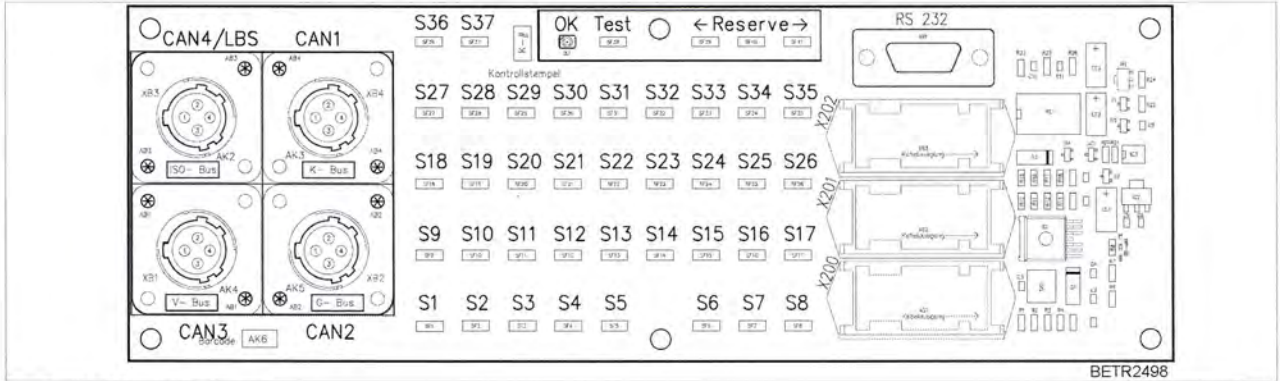


Fig. 5. **A013** - PCB, microfuses

1001049

Fuse no.	Connector/PIN	Component
S4	X200/14	X015 - External control socket (Contact 58 R)
S5	X200/13	B017 - Sensor, clutch pedal
S6	X200/12	B016 - Sensor, travel range detection
S7	X200/11	B014 - Sensor, collecting shaft
S8	X200/10	B015 - Sensor, bevel pinion
S9	X201/1	B068 - Sensor, wheel position (right)
S12	X200/7	B040 - Sensor, front power lift position
S13	X200/6	B032 - Sensor, draft sensing pin, left
S14	X200/5	B031 - Sensor, draft sensing pin, right
S15	X200/4	B030 - Sensor, rear power lift position
S16	X201/4	B067 - Sensor, steering angle
S17	X201/5	B066 - Sensor, wheel position (left)
S19	X201/7	B055 - Sensor, foot throttle
S29	X202 / 7	B081 - Steering wheel sensor (360°)
S31	X202/5	B039 - Sensor, high-pressure 2
S32	X202/4	B008 - Sensor, high-pressure 1
S33	X202/1	B010 - Sensor, engine speed
S35	X202/10	B020 - Sensor, rear PTO speed (stub shaft)
S36	X202/8	B002 - Sensor, front PTO speed
S37	X202/11	B021 - Sensor, rear PTO speed (clutch)

NOTE: Unlisted fuses in **A013** - PCB, microfuses not currently assigned

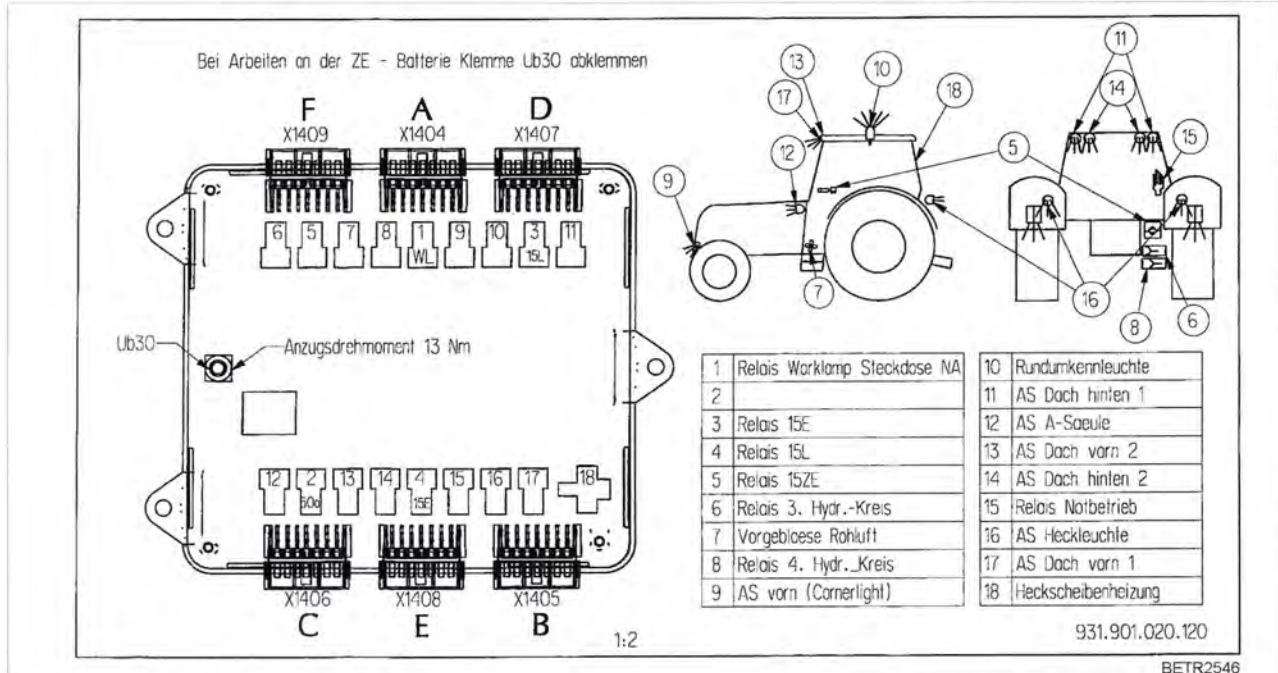


Fig. 6. Central electrical system - relay assignment

I003837

Relay	Consumer	Relay	Consumer
1	Relay socket NA	10	Rotating beacon
2		11	Work light, rear roof 1 (external)
3	Relay 15E	12	Work light, A pillar
4	Relay 15L	13	Work light, front roof 2 (internal)
5	Relay 15ZE	14	Work light, rear roof 2 (internal)
6	3rd hydraulic circuit relay	15	Relay, emergency operation
7	Primary fan, intake air	16	Work light, rear lamp
8	4th hydraulic circuit relay	17	Work light, front roof 1 (external)
9	Front work light	18	Rear window heater

NOTE: When testing the relay supply voltage, see WHB Chapter 9000 Reg. E, Measuring and testing **A038** - ECU, central electrical system

2 Component list for circuit diagram set 931.901.000.004

DIN component designation	Separation point	Circuit diagram sheet no.
A007 - Instrument panel	X100 X101	2, 8, 9, 10, 17
A009 - Actuator unit	X037	2, 10, 11
A011 - Radar sensor	X479	13
A013 - PCB, microfuses	X200 X201 X202	3, 8, 9, 10, 11, 12, 14, 15
A015 - Radio	X1315 X1316 X1768	24, 29
A036 - Control panel, dashboard right/left	X1357	2, 8, 9, 10, 17
A038 - ECU, central electrical system	X454 X455 X456 X1404 X1405 X1406 X1407 X1408 X1409	4, 7, 18, 19, 20, 21, 22, 23
A039 - MFA, multifunction armrest	X1401	2, 8, 9, 10, 11, 17, 23
A050 - ECU, basic control unit	X1402 X1403	5, 8, 9, 10, 11, 12, 14, 15, 16, 26
A051 - ECU, engine control unit (EDC 7).	X1466 X1671 X1672	6, 8, 9, 10, 26, 27
A053 - ECU, air conditioning control	X920 X921	6, 20, 23
A055 - ECU, data transfer	X1411	6, 8, 28
A058 - TopDock (Auto-Guide)	X1728	6, 28
A059 - Terminal (Auto-Guide)	X1732	6, 24
A060 - Hands-free device	X1765	29
A073 - Terminal (A4)	X1830	2, 8, 9, 10
A075 - ECU, tail light LED, right	X1785	28
A076 - ECU, tail light LED, left	X1786	28
A077 - Immobiliser ECU	X1852	28
A078 - Tachograph ECU	X2025 X2026	29

DIN component designation	Separation point	Circuit diagram sheet no.
B002 - Sensor, front PTO speed	X151	15
B004 - Vacuum switch (air filter)	X153	26
B008 - Sensor, high-pressure 1	X157	11
B009 - Discharge temperature sensor	X158	11
B010 - Sensor, engine speed	X159	11

DIN component designation	Separation point	Circuit diagram sheet no.
B013 - Sensor, hydraulic oil temperature	X162	17
B014 - Sensor, collecting shaft	X163	11
B015 - Sensor, bevel pinion	X164	11
B016 - Sensor, travel range detection	X165	11
B017 - Sensor, clutch pedal	X166	11
B019 - Sensor, compressed air supply (circuit 2)	X168	17
B020 - Sensor, rear PTO speed (stub shaft)	X169	15
B021 - Sensor, rear PTO speed (clutch)	X170	15
B030 - Sensor, rear power lift position	X178	12
B031 - Sensor, draft sensing pin, right	X179	12
B032 - Sensor, draft sensing pin, left	X180	12
B034 - Immersed tube sensor (fuel)	X182	17
B039 - Sensor, high-pressure 2	X177	11
B040 - Sensor, front power lift position	X188	12
B050 - Loudspeaker, left	X289 X290	24
B051 - Loudspeaker, right	X311 X312	24
B055 - Sensor, foot throttle	X898	26
B060 - Compressed air supply sensor (circuit 1)	X1410	17
B061 - Loudspeaker	X1620 X1621	24
B062 - Loudspeaker	X1622 X1623	24
B063 - Pressure switch, filter contamination (hydraulic circuit)	X1500	12
B066 - Sensor, wheel position (left)	X1509	14
B067 - Sensor, steering angle	X1508	14
B068 - Sensor, wheel position (right)	X1507	14
B071 - Sensor, output temperature	X1536	20
B073 - Sensor, solar (irradiation)	X1535	20
B074 - Sensor, internal temperature	X1545	20
B076 - Sensor, external temperature	X1538	20
B077 - Engine fan (speed sensor/magnetic clutch)	X1532	26
B081 - Steering wheel sensor (360°)	X1519	14
B084 - Sensor, hydraulic oil level	X214	17
B085 - Camshaft speed sensor	X1654	27
B086 - Rail pressure sensor	X1655	27
B087 - Fuel low pressure sensor	X1656	27
B088 - Crankshaft speed sensor	X1657	27
B089 - Engine temperature sensor (Deutz)	X1658	27
B090 - Sensor, oil pressure	X1659	27
B091 - Sensor, water in fuel	X1660	27
B092 - Sensor, charge air pressure/temperature	X1661	27
B095 - Microphone	X1766	29
B101 - KITAS sensor	X2136	29

DIN component designation	Separation point	Circuit diagram sheet no.
E003 - H4 additional headlight, right	X352	18
E004 - H4 additional headlight, left	X353	18
E009 - Licence plate lighting, right	X374 X375	19
E010 - Licence plate lighting, left	X376 X377	19
E019 - Lighting, cab	X308 X309 X310	19
E020 - Lighting (EPC)	X842 X843 X844	19
E021 - Rotating beacon, right	X346	21
E022 - Rotating beacon, left	X345	21
E023 - Rear window heater	X259 X260	19
E050 - Work lights, front left roof, internal	X798	20
E051 - Work lights, front right roof, internal	X799	20
E054 - Wide vehicle marker lights, right	X896	19
E055 - Wide vehicle marker lights, left	X897	19
E063 - Heater element, air dryer (temperature-controlled)	X1556	23
E064 - Rear direction indicator, left	X916	21
E065 - Rear direction indicator, right	X917	21
E066 - Brake and tail light left	X918	18, 19
E067 - Brake and tail light right	X919	18, 19
E070 - Work lights, front right roof, external	X1291	19
E071 - Work lights, front left roof, external	X1292	19
E074 - Work light, right (cornerlight)	X1289	18
E075 - Work light, left (cornerlight)	X1290	18
E078 - Work light, rear right mudguard (optional Xenon)	X1285	22
E079 - Work light, rear left mudguard (optional Xenon)	X1286	22
E082 - Work light, rear right external (roof)	X1561 X1562	21
E083 - Work light, rear right internal (roof)	X1570 X1571	22
E084 - Work light, rear left internal (roof)	X1572 X1573	22
E085 - Work light, rear left external (roof)	X1563 X1564	21
E086 - Side lamp, front right	X1685 X1686	19
E087 - Side lamp, front left	X1687 X1688	19
E088 - Direction direction indicator, front right	X1689 X1690	20
E089 - Direction direction indicator, front left	X1691 X1692	20
E098 - Drive headlight (main beam), right	X1603	18

DIN component designation	Separation point	Circuit diagram sheet no.
E099 - Drive headlight (dipped beam), right	X1604	18
E100 - Drive headlight (main beam), left	X1605	18
E101 - Drive headlight (dipped beam), left	X1606	18
E106 - Exterior mirror (adjustment/heater), right	X868	23
E107 - Exterior mirror (adjustment/heater), left	X869	23
E108 - Work light, right A pillar (optional Xenon)	X1613	20
E109 - Work light, left A pillar (optional Xenon)	X1614	20
E116 - Work lights, Xenon front right roof, external	X1802	19
E117 - Work lights, Xenon front left roof, external	X1802	19
E130 - LED for rear direction indicator, left	X916	21
E131 - LED for rear direction indicator, right	X917	21

DIN component designation	Separation point	Circuit diagram sheet no.
G001 - Battery 1	X058 X059 X060 X066	7, 9
G002 - Alternator 1	X062 X064	7, 17
G004 - Alternator 2	X449 X450	7, 17

DIN component designation	Separation point	Circuit diagram sheet no.
H005 - Horn	X998 X999	22
H006 - Audio warning signal	X204	17
H009 - Blip signal, reversing	X1544	11

DIN component designation	Separation point	Circuit diagram sheet no.
K061 - ISO bus disconnect relay	X1592 X1593 X1594 X1595	7, 8, 25
K063 - Heater flange relay	X1663 X1664 X1665	27
K065 - Starter relay	X1648	26
K068 - Relay, battery disconnect (impulse)	X1679 X1680 X1805	7
K069 - Relay, safety function (battery disconnect)	X1753	7

DIN component designation	Separation point	Circuit diagram sheet no.
M001 - starter.	X057 X061	7, 26
M002 - Front wiper motor	X347	21
M003 - Wiper pump, front	X301	22
M004 - Rear wiper motor	X258	21
M005 - Wiper pump, rear	X303	22
M010 - Fuel pump	X300	22
M015 - Actuator motor, top/middle air flap	X1546	23
M016 - Servomotor, bottom air valve	X1547	23
M017 - Primary fan	X1555	23

DIN component designation	Separation point	Circuit diagram sheet no.
R002 - Heater flange	X991	27

DIN component designation	Separation point	Circuit diagram sheet no.
S002 - Switch, ignition	X072 X246	7, 26
S005 - Switch, right brake	X217	11
S006 - Switch, left brake	X218	11
S012 - Switch, starter lockout	X082	22, 26
S013 - Emergency mode button	X224	22
S017 - Filter contamination switch	X228	11
S019 - Button, rear PTO, external left	X229	15
S020 - Button, rear PTO, external right	X230	15
S021 - Button, front power lift, external raise	X231	12
S022 - Button, front power lift, external lower	X232	12
S025 - Switch, LS pump pressure monitor	X235	12
S026 - Switch, steering pump flow controller	X236	12
S027 - Button, rear power lift, right-hand external raise	X237	12
S028 - Button, rear power lift, right-hand external lower	X238	12
S029 - Button, rear power lift, left-hand external raise	X239	12
S030 - Button, rear power lift, left-hand external lower	X240	12
S032 - Switch, left door contact	X299	19
S034 - Switch, coolant level	X244	26
S035 - Switch, high-pressure/low-pressure (air conditioning system)	X341	23
S045 - Switch, reversing driver stand	X213	11
S047 - Switch, engine brake	X140	26
S067 - Button, valve actuation, external raise	X1114	12
S068 - Button, valve actuation, external lower	X1115	12
S075 - Switch, guard rail pump flow monitor	X1499	12

DIN component designation	Separation point	Circuit diagram sheet no.
S076 - Switch, clutch fluid	X1542 X1543	17
S079 - Switch, steering column	X1590 X1591	11, 21, 22
S080 - Switch, hand brake	X1467	11
S085 - Switch, reverse operation (RÜFA) actuation	X1650	19
S086 - Switch, brake wearing, right	X1651	16
S087 - Switch, brake wearing, left	X1652	16
S092 - Battery disconnect switch	X1749	7

DIN component designation	Separation point	Circuit diagram sheet no.
U002 - Radio aerial	X1669 X1670	24

DIN component designation	Circuit diagram sheet no.
X007 - Implement socket	17
X008 - Socket, on-board computer counter input	12
X015 - External control socket	12, 18, 23
X017 - Front socket	19
X018 - Rear socket	18, 19
X028 - ISO socket (cab)	25
X037 - Separation point on A009	10, 11
X057 - Separation point on M001	7
X058 - Battery terminal (+ UB 30)	7
X059 - Separation point on G001	9
X060 - Separation point on G001	9
X061 - Separation point on M001	7
X062 - Separation point on G002	7
X064 - Separation point on G002	17
X066 - Separation point on G001	9
X072 - Separation point on S002	7, 26
X082 - Separation point on S012	22, 26
X086 - Separation point on Y006	27
X100 [blau] - Separation point on A007	10, 17
X101 [gelb] - Separation point on A007	8, 9, 17
X140 - Separation point on S047	26
X151 - Separation point on B002	15
X153 - Separation point on B004	26
X157 - Separation point on B008	11
X158 - Separation point on B009	11
X159 - Separation point on B010	11
X162 - Separation point on B013	17
X163 - Separation point on B014	11

DIN component designation	Circuit diagram sheet no.
X164 - Separation point on B015	11
X165 - Separation point on B016	11
X166 - Separation point on B017	11
X168 - Separation point on B019	17
X169 - Separation point on B020	15
X170 - Separation point on B021	15
X177 - Separation point on B039	11
X178 - Separation point on B030	12
X179 - Separation point on B031	12
X180 - Separation point on B032	12
X182 - Separation point on B034	17
X188 - Separation point on B040	12
X200 - Separation point on A013	8, 10, 11, 12
X201 - Separation point on A013	8, 9, 10, 14
X202 - Separation point on A013	10, 11, 14, 15
X204 - Separation point on H006	17
X213 - Separation point on S045	11
X214 - Separation point on B084	17
X217 - Separation point on S005	11
X218 - Separation point on S006	11
X224 - Separation point on S013	22
X228 - Separation point on S017	11
X229 - Separation point on S019	15
X230 - Separation point on S020	15
X231 - Separation point on S021	12
X232 - Separation point on S022	12
X235 - Separation point on S025	12
X236 - Separation point on S026	12
X237 - Separation point on S027	12
X238 - Separation point on S028	12
X239 - Separation point on S029	12
X240 - Separation point on S030	12
X244 - Separation point on S034	26
X246 - Separation point on S002	7
X254 - 10 amp socket	25
X255 - 25 A socket (+ UB 30)	25
X256 - 25 amp socket (earth)	25
X258 - Separation point on M004	21
X259 - Separation point on E023	19
X260 - Separation point on E023	19
X289 - Separation point on B051	24
X290 - Separation point on B051	24
X299 - Separation point on S032	19
X300 - Separation point on M010	22
X301 - Separation point on M003	22
X303 - Separation point on M005	22

DIN component designation	Circuit diagram sheet no.
X308 - Separation point on E019	19
X309 - Separation point on E019	19
X310 - Separation point on E019	19
X311 - Separation point on B050	24
X312 - Separation point on B050	24
X315 - Separation point on Y002	11
X316 - Separation point on Y003	11
X317 - Separation point on Y004	22
X318 - Separation point on Y005	11
X319 - Separation point on Y008	15
X320 - Separation point on Y009	11
X321 - Separation point on Y010	11
X322 - Separation point on Y011	15
X323 - Separation point on Y012	12
X332 - Separation point on Y021	12
X333 - Separation point on Y022	12
X336 - Separation point on Y032	12
X341 - Separation point on S035	23
X342 - Separation point on Y024	23
X345 - Separation point on E022	21
X346 - Separation point on E021	21
X347 - Separation point on M002	21
X352 - Separation point on E003	18
X353 - Separation point on E004	18
X360 - Separation point on Y026	15
X361 - Separation point on Y027	15
X374 - Separation point on E009	19
X375 - Separation point on E009	19
X376 - Separation point on E010	19
X377 - Separation point on E010	19
X400 - Rear ISO implement socket	25
X449 - Separation point on G004	17
X450 - Separation point on G004	7
X454 - Separation point on A038	7
X455 - Separation point on A038	7
X456 - Separation point on A038	7
X479 - Separation point on A011	13
X497 - Separation point, ISO preparation	25
X510 - Earth pin, engine left	9, 12, 13
X511 - Earth pin, engine	8, 9, 14, 15
X512 - Earth pin, engine	9
X513 - Earth pin, engine	9, 13, 19, 22
X520 - Earth pin, oil sump right	9, 18
X521 - Earth pin, engine	9
X532 - Earth pin, cab body	9, 18, 19, 20, 21
X533 - Earth pin, cab body	9, 12, 17, 19, 24, 25

DIN component designation	Circuit diagram sheet no.
X534 - Earth pin, cab body	9, 19, 21, 22, 25
X550 - Earth pin, operator platform right	9
X551 - Earth pin, operator platform right	9, 17, 19, 22
X552 - Earth pin, operator platform	9, 20, 21, 23
X553 - Earth pin, operator platform	9, 24, 25, 26
X554 - Earth pin, operator platform	7, 8, 9, 11, 19, 25, 28
X558 - Earth pin, transmission	9, 17
X559 - Earth pin, transmission	9, 25
X570 - Earth pin, transmission	9, 12, 15, 19, 22
X571 - Earth pin, transmission	9, 11, 13
X572 - Earth pin, transmission	9, 12, 14, 18, 23
X573 - Earth pin, transmission	9
X574 - Earth pin, transmission	9, 19, 21
X596 - Connector, earth (X1048 socket, ABS)	17
X598 - Connector, K bus_High	10, 18
X599 - Connector, K bus_Low	10, 18
X608 - Connector, + UB 15	7, 21, 22
X619 - Connector, electronics earth	9
X620 - Connector, sensor system earth	9, 12, 14
X621 - Connector, sensor system earth	9, 11
X627 - Connector, electronics earth	9, 11, 12
X629 - Connector, + UB 30	8
X631 - Connector, rear PTO LED ON	15
X635 - Connector, sensor system earth (instrument panel)	17
X643 - Connector, instrument panel earth	9
X650 - Connector, headlight 56b (dipped beam)	18
X651 - Connector, headlight 56a (main beam)	18
X657 - Connector, auxiliary lighting 56a (main beam)	18
X658 - Connector, auxiliary lighting 56b (dipped beam)	18
X659 - Connector, work light (cornerlight)	18
X660 - Connector, sensor system earth	9, 11, 26
X661 - Connector, electronics earth	9, 18, 19
X668 - Connector, sensor system earth	9, 12
X669 - Connector, sensor system earth	9, 14, 15
X671 - Connector, sensor system earth	9, 11, 12
X672 - Connector, sensor system earth	9, 11
X673 - Connector, sensor system earth	9, 11, 12
X674 - Connector, sensor system earth	9, 15, 16
X678 - Connector, sensor system earth	17
X684 - Connector, ISO socket earth	25
X692 - Connector, +UB 30 (A051)	8
X694 - Connector, +UB 30 (A038)	7, 19, 20, 21, 22, 23
X698 - Connector, sensor system earth	17
X707 - Connector, ISO bus_Low	10
X708 - Connector, ISO bus_High	10
X711 - Connector, V bus_High	10, 13

DIN component designation	Circuit diagram sheet no.
X712 - Connector, V bus_Low	10, 13
X714 - Connector, G bus_Low	10
X715 - Connector, G bus_High	10
X718 - Connector, K bus_Low	10
X719 - Connector, K bus_High	10
X725 - Connector, K bus_High	10, 25
X726 - Connector, K bus_Low	10, 25
X727 - Connector, ISO bus_High	25
X728 - Connector, ISO bus_Low	25
X738 - Connector, serial RXD	10, 24
X739 - Connector, serial TXD	10, 24
X760 - Connector, earth	19, 21, 22
X761 - Connector, earth	19, 21, 22
X762 - Connector, + UB 15	21
X766 - Connector, air conditioning earth	18, 20
X769 - Connector, signal (E021/E022)	21
X789 - Connector, signal (E083/E084)	22
X793 - Connector, signal (E082/E085)	21
X794 - Connector, earth (A051)	9
X796 - Cable coupling (M002)	20, 21, 23
X797 - Connector, air conditioning coupler signal	23
X798 - Separation point on E050	20
X799 - Separation point on E051	20
X810 - EDC diagnostics socket (engine control unit)	26
X814 - Connector, +UB30 (X1048 socket, ABS)	17
X834 - Separation point on E070	19
X835 - Separation point on E071	19
X836 - Separation point on E0116 / E117	19
X837 - Separation point on X1048 socket, ABS	17
X838 - Separation point on X015 socket, external control	12, 18, 23
X842 - Separation point on E020	19
X843 - Separation point on E020	19
X844 - Separation point on E020	19
X845 - 25 A socket (+ UB 30)	25
X846 - 25 amp socket (earth)	25
X847 - 25 A socket (+ UB 30)	25
X848 - 25 amp socket (earth)	25
X868 - Separation point on E106	23
X869 - Separation point on E107	23
X896 - Separation point on E054	19
X897 - Separation point on E055	19
X898 - Separation point on B055	26
X899 - Connector, earth	18
X916 - Separation point on E064	21
X916 - Separation point on E118	21
X917 - Separation point on E065	21

DIN component designation	Circuit diagram sheet no.
X917 - Separation point on E119	21
X918 - Separation point on E066	18, 19
X919 - Separation point on E067	18, 19
X920 - Separation point on A053	20, 23
X921 - Separation point on A053	23
X991 - Separation point on R002	27
X998 - Separation point on H005	22
X999 - Separation point on H005	22
X1041 - Separation point on Y053	11
X1048 - Socket ABS	17
X1114 - Separation point on S067	12
X1115 - Separation point on S068	12
X1153 - Separation point on Y088	16
X1285 - Separation point on E078	22
X1286 - Separation point on E079	22
X1289 - Separation point on E074	18
X1290 - Separation point on E075	18
X1291 - Separation point on E070	19
X1292 - Separation point on E071	19
X1315 - Separation point on radio (compact plug)	24
X1316 - Separation point on radio (compact plug)	24
X1343 - Connector, G bus_High	10, 28
X1344 - Connector, G bus_Low	10, 28
X1357 [weiß] - Separation point on A036	8, 9, 10, 17
X1401 - Separation point on A039	8, 9, 10, 11, 17, 23,
X1402 [B] - Separation point on A050	8, 10, 11, 12, 14, 15, 16, 26
X1403 [A] - Separation point on A050	8, 9, 10, 11, 12, 14, 15, 16,
X1404 [A] - Separation point on A038	18
X1405 [B] - Separation point on A038	19
X1406 [C] - Separation point on A038	20
X1407 [D] - Separation point on A038	21
X1408 [E] - Separation point on A038	22
X1409 [F] - Separation point on A038	23
X1410 - Separation point on B060	17
X1411 - Separation point on A055	8, 28
X1417 - Cable coupling, operator platform/cab	10, 18, 19, 25
X1418 - Cable coupling, operator platform/transmission	11, 12, 13, 14, 16, 17, 18, 19, 21, 22, 23
X1419 - Cab cable coupling	12, 17, 23, 25
X1420 - Cab cable coupling	19, 20, 21, 22, 24, 25
X1421 - Cable coupling, operator platform	12, 15, 18, 19, 21, 22
X1422 - Cable coupling, mudguard	12, 15, 18, 19, 21, 22
X1423 - Cable coupling, operator platform/transmission	9, 10, 11, 12, 13, 15, 17, 18, 23
X1424 - Cable coupling, operator platform	10, 13, 14, 15, 16, 17, 19, 20, 25, 26
X1425 - Cable coupling, operator platform	7, 8, 9, 11, 12, 18, 22, 23
X1436 - Cable coupling, tractor bonnet (drive light, cornerlight)	18

DIN component designation	Circuit diagram sheet no.
X1440 - Fuse holder	7, 8, 11, 13, 17, 18, 19, 20, 21, 22, 23, 24, 25
X1459 - Separation point on Y055	12
X1461 - Connector, sensor system earth (left mudguard)	12, 15
X1462 - Connector, sensor system earth (right mudguard)	12, 15
X1463 - Connector, G bus_High	10
X1464 - Connector, G bus_Low	10
X1466 - Separation point on A051	8, 9, 10, 26
X1467 - Separation point on S080	11
X1470 - Separation point, control valve	13
X1471 - Separation point, control valve	13
X1472 - Separation point, control valve	13
X1473 - Separation point, control valve	13
X1474 - Separation point, control valve	13
X1477 - Separation point, control valve	13
X1478 - Separation point, control valve	13
X1479 - Separation point, control valve	13
X1480 - Separation point, control valve	13
X1481 - Separation point, control valve	13
X1482 - Separation point, control valve	13
X1483 - Separation point, control valve	13
X1484 - Separation point, control valve	13
X1485 - Separation point, control valve	13
X1486 - Separation point, control valve	13
X1487 - Separation point, control valve	13
X1488 - Separation point, control valve	13
X1489 - Separation point, control valve	13
X1490 - Separation point, control valve	13
X1497 - Separation point on Y060	12
X1498 - Separation point on Y061	12
X1499 - Separation point on S075	12
X1500 - Separation point on B063	12
X1501 - Separation point on Y062	12
X1502 - Separation point on Y084	12
X1503 - Separation point on Y063	14
X1504 - Separation point on Y064	14
X1507 - Separation point on B068	14
X1508 - Separation point on B067	14
X1509 - Separation point on B066	14
X1510 - Separation point on Y065	14
X1512 - Separation point on Y067	14
X1513 - Separation point on Y085	14
X1514 - Separation point on Y086	14
X1517 - Separation point on Y082	14
X1518 - Separation point on Y083	14
X1519 - Separation point on B081	14

DIN component designation	Circuit diagram sheet no.
X1525 - Connector, sensor + UB (from instrument panel)	17
X1528 - Connector, sensor system supply	26
X1532 - Separation point on B077	26
X1535 - Separation point on B073	20
X1536 - Separation point on B071	20
X1538 - Separation point on B076	20
X1539 - ISO bus diagnostics socket	25
X1542 - Separation point on S076	17
X1543 - Separation point on S076	17
X1544 - Separation point on H009	11
X1545 - Separation point on B074	20
X1546 - Separation point on M015	23
X1547 - Separation point on M016	23
X1555 - Separation point on M017	23
X1556 - Separation point on E063	23
X1561 - Separation point on E082	21
X1562 - Separation point on E082	21
X1563 - Separation point on E085	21
X1564 - Separation point on E085	21
X1565 - Connector, position light	19
X1570 - Separation point on E083	22
X1571 - Separation point on E083	22
X1572 - Separation point on E084	22
X1573 - Separation point on E084	22
X1578 - Connector, + UB 15	8, 18, 24
X1586 - V bus cable coupling (Auto-Guide)	13
X1587 - Cable coupling, Y087	13
X1588 - Separation point on Y087	13
X1589 - Separation point on Y087	13
X1590 - Separation point on S079	11, 21
X1591 - Separation point on S079	21, 22
X1592 - Separation point on K061	8
X1593 - Separation point on K061	7
X1594 - Separation point on K061	25
X1595 - Separation point on K061	25
X1597 - Cable coupling A059	10, 24
X1600 - Cable coupling, to rear work lights (roof)	19, 20, 23
X1603 - Separation point on E098	18
X1604 - Separation point on E099	18
X1605 - Separation point on E100	18
X1606 - Separation point on E101	18
X1611 - Separation point on X400 PCB, ISO (bus terminal)	25
X1612 - Separation point on X400 PCB, ISO (bus terminal)	25
X1613 - Separation point on E108	20
X1614 - Separation point on E109	20
X1616 - Separation point on X1806 - +UB 30 distributor	7

DIN component designation	Circuit diagram sheet no.
X1617 - Separation point on X1806 - +UB 30 distributor	7
X1618 - Separation point on X1806 - +UB 30 distributor	7
X1620 - Separation point on B061	24
X1621 - Separation point on B061	24
X1622 - Separation point on B062	24
X1623 - Separation point on B062	24
X1624 - Cable coupling to front position lights	19, 20
X1633 - Separation point, Auto-Guide TopDock	25
X1634 - Connector (+ UB 30)	7, 8, 28
X1635 - Cable coupling, operator platform	8, 10
X1636 - Vario-Doc cable coupling	8, 28
X1637 - Connector, ISO bus_Low (A055 Vario-Doc)	28
X1638 - Connector, ISO bus_High (A055 Vario-Doc)	28
X1639 - Connector, K bus_High	28
X1640 - Connector, K bus_Low	28
X1648 - Separation point on K065	26
X1649 - Separation point, 10 amp socket	25
X1650 - Separation point on S085	19
X1651 - Separation point on S086	16
X1652 - Separation point on S087	16
X1654 - Separation point on B085	27
X1655 - Separation point on B086	27
X1656 - Separation point on B087	27
X1657 - Separation point on B088	27
X1658 - Separation point on B089	27
X1659 - Separation point on B090	27
X1660 - Separation point on B091	27
X1661 - Separation point on B092	27
X1662 - Separation point on Y091	27
X1663 - Separation point on K063	27
X1664 - Separation point on K063	27
X1665 - Separation point on K063	27
X1667 - Separation point on Y092	21
X1668 - Separation point on Y093	19
X1669 - Separation point on U002	24
X1670 - Separation point on U002	24
X1671 - Separation point on A051	27
X1672 - Separation point on A051	27
X1673 - Cylinder head cable coupling (injectors)	27
X1674 - Separation point on Y094	27
X1675 - Connector, earth	27
X1676 - Connector + UB 12 VDC	27
X1677 - Cylinder head cable coupling (injectors)	27
X1678 - Connector, front work light	20
X1679 - Separation point on K068	7
X1680 - Separation point on K068	7

DIN component designation	Circuit diagram sheet no.
X1681 - Cable coupling, E051	20
X1682 - Cable coupling, E050	20
X1683 - Cable coupling, camera socket	24
X1685 - Separation point on E086	19
X1686 - Separation point on E086	19
X1687 - Separation point on E087	19
X1688 - Separation point on E087	19
X1689 - Separation point on E088	20
X1690 - Separation point on E088	20
X1691 - Separation point on E089	20
X1692 - Separation point on E089	20
X1700 - Separation point on K063	27
X1702 - Separation point on K063	27
X1703 - Separation point on G004	7
X1728 - Separation point on A058	28
X1729 - Connector, ISO bus_Low	24
X1730 - Connector, ISO bus_Low	24
X1731 - Connector, ISO bus_High	24
X1732 - Separation point on A059	24
X1734 - Connector, ISO bus_High	24
X1735 - Connector, earth (Auto-Guide)	24
X1740 - Connector, Auto-Guide (+UB 15)	24
X1742 - Connector, Auto-Guide (+UB 30)	24
X1749 - Separation point on S092	7
X1751 - Separation point, left frame earth point	11, 22
X1752 - Separation point on K068	7
X1753 - Separation point on K069	7
X1765 - Separation point on A060	29
X1766 - Separation point on B095	29
X1767 - Separation point on radio to B050/B051	29
X1768 - Separation point on radio from A060	29
X1785 - Separation point on A075	28
X1786 - Separation point on A076	28
X1787 - Connector, + UB 15	8, 28
X1802 - Separation point on E116 / E117	19
X1804 - Separation point on X1806	7
X1805 - Separation point on K068	7
X1806 - +UB 30 distributor	7
X1830 - Separation point on A073	10
X1852 - Separation point on A077	28
X2025 - Separation point on A078	29
X2026 - Separation point on A078	29
X2136 - Separation point on B101	29
X4000 - Separation point on X1633_ P	28
X4001 - Separation point on X1633_ S	28
X4002 - Auto-Guide diagnostics socket	28

DIN component designation	Circuit diagram sheet no.
X4003 - Connector, ISO bus_Low	28
X4004 - Connector, ISO bus_High	28
X4005 - Connector, V bus_Low	28
X4006 - Connector, V bus_High	28
X4007 - Earth pin, operator platform	28
X4024 - Connector, earth E020	19
X4091 - Connector, +UB 15 on A078	19, 29
X5028 - Connector, cab earth pin	9, 29

DIN component designation	Separation point	Circuit diagram sheet no.
Y002 - Solenoid valve, travel range I	X315	11
Y003 - Solenoid valve, travel range II	X316	11
Y004 - Solenoid valve, turbo-clutch	X317	22
Y005 - Solenoid valve, speed governor	X318	11
Y006 - Solenoid valve, engine brake	X086	27
Y008 - Solenoid valve, rear PTO (clutch)	X319	15
Y009 - Solenoid valve, 4WD	X320	11
Y010 - Solenoid valve, differential lock	X321	11
Y011 - Front PTO solenoid valve (clutch)	X322	15
Y012 - Oil pre-heater/load suspension solenoid valve	X323	12
Y021 - Lifting solenoid valve (standard front power lift)	X332	12
Y021 - Front pressure compensator lock valve	X332	12
Y022 - Lowering solenoid valve (standard front power lift)	X333	12
Y022 - Field pressure control solenoid valve (front),	X333	12
Y024 - Magnetic clutch, air conditioning compressor	X342	23
Y026 - Solenoid valve, rear PTO, stage I	X360	15
Y027 - Solenoid valve, rear PTO, stage II	X361	15
Y032 - Control pressure solenoid valve	X336	12
Y053 - Active hold function solenoid valve	X1041	11
Y055 - Rear pressure compensator lock valve	X1459	12
Y060 - Hydraulic oil pre-heater solenoid valve (rear)	X1497	12
Y061 - hydraulic oil pre-heater solenoid valve (middle)	X1498	12
Y062 - Solenoid valve, field pressure control (rear)	X1501	12
Y063 - Wobble stabiliser solenoid valve	X1503	14
Y064 - Suspension load pressure/lowering solenoid valve	X1504	14
Y065 - Raise suspension solenoid valve	X1510	14
Y067 - Lock suspension solenoid valve	X1512	14
Y070 [FKH] - Cut-off valve, front power lift enhanced control	X1470 X1471	13
Y071 [2.1] - Auxiliary control valve (olive)	X1472 X1473	13
Y072 [2.2] - Auxiliary control valve (grey)	X1474 X1477	13
Y074 [1.1] - Auxiliary control valve (yellow)	X1478 X1479	13

DIN component designation	Separation point	Circuit diagram sheet no.
Y075 [1.2] - Auxiliary control valve (blue)	X1480 X1481	13
Y076 [1.3] - Auxiliary control valve (red)	X1482 X1483	13
Y077 [HKH] - Cut-off valve, rear EPC	X1484 X1485	13
Y078 [1.4] - Auxiliary control valve (green)	X1486 X1487	13
Y079 [1.5] - Auxiliary control valve (brown)	X1488 X1489	13
Y080 [1.6] - Auxiliary control valve (violet)	X1490	13
Y082 - Solenoid valve, lower link stabiliser, lock	X1517	14
Y083 - Solenoid valve, lower link stabiliser, release	X1518	14
Y084 - Solenoid valve, Power Beyond	X1502	12
Y085 - Pilot pressure/switch-off solenoid valve (Auto-Guide)	X1513	14
Y086 - Solenoid valve, steering disconnect (Auto-Guide)	X1514	14
Y087 - Steering valve block, Auto-Guide	X1588 X1589	13
Y088 - Solenoid valve, release trailer brake	X1153	16
Y091 - Dispensing unit (fuel)	X1662	27
Y092 - Solenoid valve, reverse operation (RÜFA), rotate to left	X1667	21
Y093 - Solenoid valve, reverse operation (RÜFA), rotate to right	X1668	19
Y094 - Actuator unit, AGR (exhaust gas recirculation)	X1674	27
Y095 - Injector valve 1 (injector)	-	27
Y096 - Injector valve 2 (injector)	-	27
Y097 - Injector valve 3 (injector)	-	27
Y098 - Injector valve 4 (injector)	-	27
Y100 - Injector valve 5 (injector)	-	27
Y101 - Injector valve 6 (injector)	-	27

9000 Electrical system/overall system

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1 Overview of instrument panel/actuator unit/keyboard/A4 terminal/multifunction armrest (MFA) - Sheet 2

A007 - Instrument panel (Item B2, D2)

A009 - Actuator unit (Item A4)

A036 - Control panel, dashboard right/left (Item D4)

A039 - MFA, multifunction armrest (Item D6)

A073 - Terminal (A4) (Item B6)

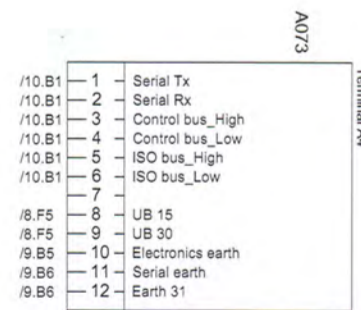
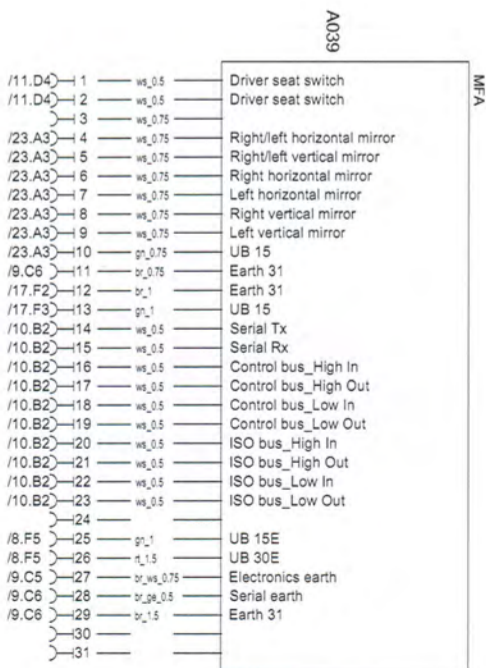
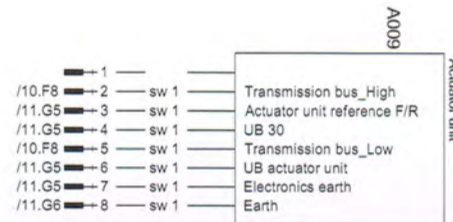
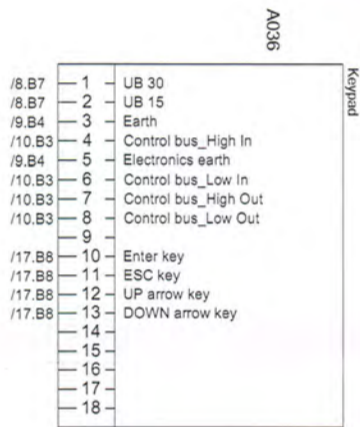
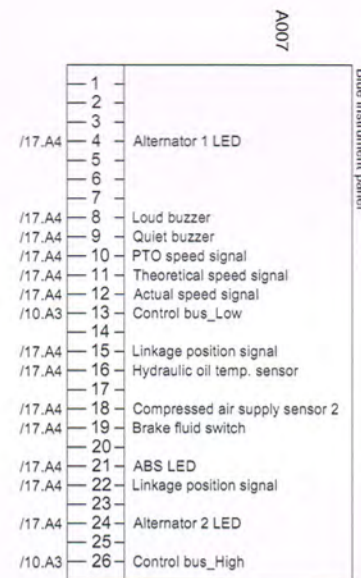
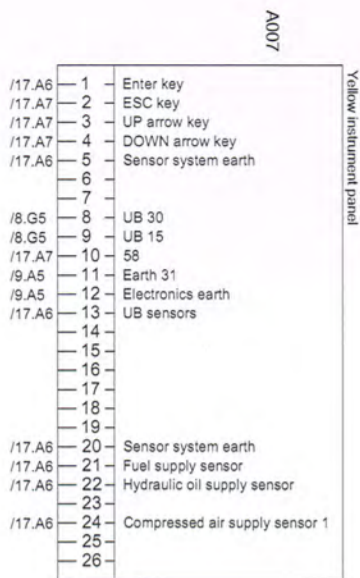
1 Overview of instrument panel/actuator unit/keyboard/A4
terminal/multifunction armrest (MFA) - Sheet 2

- A007** - Instrument panel (Item B2, D2)
A009 - Actuator unit (Item A4)
A036 - Control panel, dashboard right/left (Item D4)
A039 - MFA, multifunction armrest (Item D6)
A073 - Terminal (A4) (Item B6)

2 Overview of microfuse - Sheet 3

- A013** - PCB, microfuses


Hersteller sowie Vertriebsunternehmen für die Montage, Verwendung und Wartung dieses Schaltplans verantwortlich sind. Die Verantwortung für die Richtigkeit der Daten liegt bei der Fertigung.



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Overview of instrument panel/actuator unit/keyboard/
A4 terminal/multifunction armrest (MFA) - Sheet 2

FENDT 900 Vario COM III



Service-Training
Dokumentation

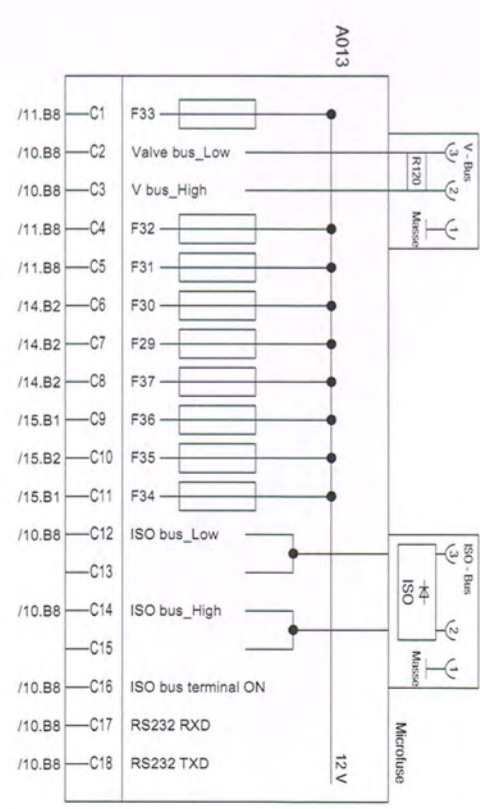
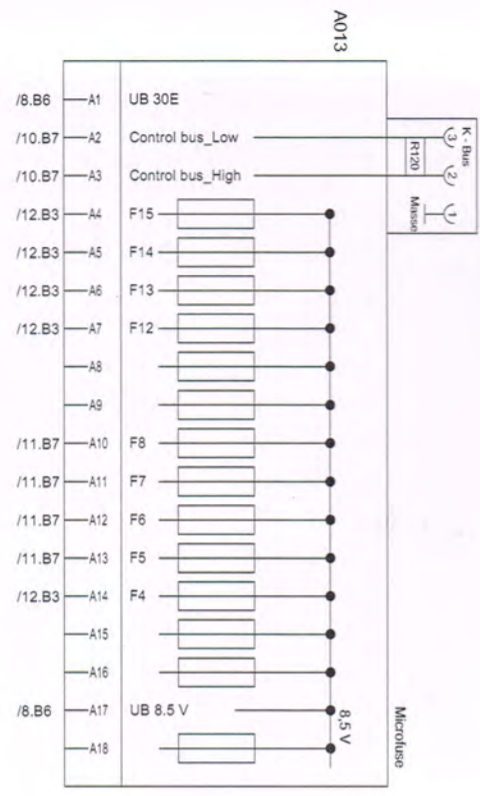
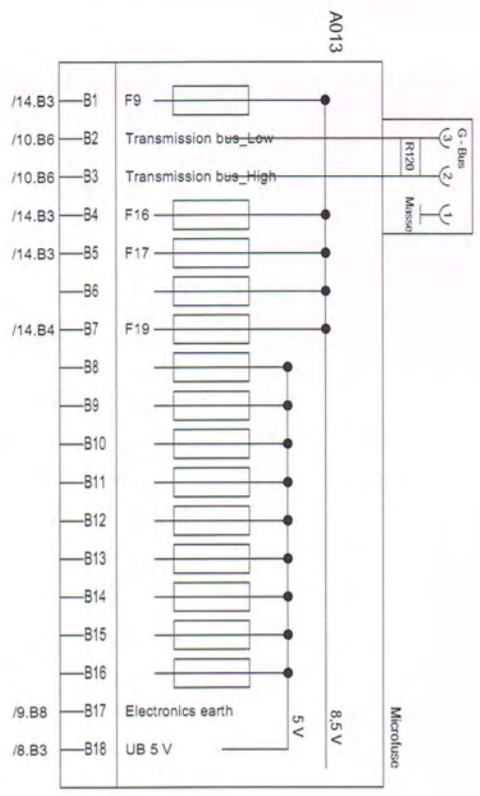
2 Overview of microfuse - Sheet 3

A013 - PCB, microfuses

3 Overview of central electrical system - Sheet 4

A038 - ECU, central electrical system

Wiedergabe ohne Gewährleistung der Richtigkeit, Verantwortung und Haftung. Diese Zeichnung ist ein Entwurf, der ohne Gewährleistung der Richtigkeit, Verantwortung und Haftung erstellt wurde. Die Zeichnung ist ein Entwurf, der ohne Gewährleistung der Richtigkeit, Verantwortung und Haftung erstellt wurde. Die Zeichnung ist ein Entwurf, der ohne Gewährleistung der Richtigkeit, Verantwortung und Haftung erstellt wurde.



Overview of microfuse - Sheet 3

FENDT 900 Vario COM III

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3 Overview of central electrical system - Sheet 4

A038 - ECU, central electrical system

4 Overview of EXT - Sheet 5

A050 - ECU, basic control unit

Wichtiges Service-Technik-Fachwissen: Die Tabelle, Darstellung und Abbildung ohne
 Details sind dargestellt, sowie die Abstände zwischen den Anschlüssen
 sind für die Montage zu beachten. Bitte beachten Sie die Hinweise im
 Reparatur- und Service-Handbuch.

A038		ZE
/20.B5	C1	Work light indic. relay (30)
/20.B5	C2	Front RH direction indicator
/20.B5	C3	Work light indic. relay (87)
	C4	
/20.B5	C5	Front LH direction indicator
	C6	
	C7	
/20.B6	C8	Evaporator temperature sensor
/20.B6	C9	Solar sensor 1
/20.B6	C10	Internal temperature sensor
/20.B6	C11	Output temperature sensor
	C12	
	C13	
/20.B6	C14	UB stepper motor
/20.B6	C15	High/low pressure switch
	C16	
/20.B6	C17	External temperature sensor
/20.B6	C18	Door contact switch
/20.B6	C19	Rel., F int. wk lts, roof (30)
/20.B6	C20	Solar sensor 2
/20.B6	C21	Rel., F int. wk lts, roof (87)

A038		ZE
/19.B5	B1	Reverse op. (turning right)
/19.B5	B2	Rev.op. (steer. col. straight)
/19.B5	B3	Right indicator socket
/19.B5	B4	Socket 58R
/19.B5	B5	Left indicator socket
/19.B6	B6	Main beam/dipped beam switch
/19.B5	B7	Socket 58L
/19.B5	B8	Position light 58
/19.B6	B9	Fan diagnostics
/19.B6	B10	Rel., F ext. wk lts, roof (30)
/19.B6	B11	Left tail light
/19.B6	B12	Rel., F ext. wk lts, roof (87)
/19.B6	B13	Right tail light
/19.B6	B14	LH wide load (NA indicator 2)
/19.B6	B15	RH wide load (NA indicator 2)
/19.B6	B16	Rear window heater relay (30)
/19.B6	B17	Rear window heater relay (87)
/19.B5	B18	Lighting, cab
/19.B5	B19	Rear window heater relay (87)
/19.B5	B20	Rear window heater relay (87)
/19.B6	B21	Earth 31

A038		ZE
/18.B6	A1	Wk light corner light rel.(87)
/18.B6	A2	Electronics earth
/18.B6	A3	Wk light corner light rel.(30)
	A4	
/18.B6	A5	Right brake light
/18.B6	A6	Left brake light
/18.B6	A7	Work light relay (NA) (30)
/18.B6	A8	Socket 54
/18.B6	A9	Control bus_Low
/18.B6	A10	Headlight 56b
/18.B6	A11	Additional headlight 56a
/18.B6	A12	Control bus_High
/18.B6	A13	Work light relay (NA) (87)
/18.B6	A14	Air conditioning earth
/18.B7	A15	UB 15
	A16	
/18.B6	A17	Headlight 56a
/18.B7	A18	UB 5 V air conditioning
/18.B6	A19	4th hydr. circuit relay (87)
/18.B6	A20	Additional headlight 56b
/18.B6	A21	4th hydr. circuit relay (30)

A038		ZE
/23.B6	F1	Primary fan relay (30)
/23.B5	F2	Stepper motor earth
/23.B5	F3	Primary fan relay (87)
	F4	
/23.B6	F5	Internal fan temp. signal
/23.B5	F6	Stepper motor earth
/23.B5	F7	15ZE relay (30)
/23.B5	F8	Fan governor
/23.B6	F9	Fuel pump
/23.B5	F10	Stepper motor earth
	F11	
/23.B5	F12	Stepper motor earth
/23.B6	F13	15ZE relay (87)
	F14	
/23.B6	F15	Lower air conditioning flap
	F16	
/23.B5	F17	Middle/upper air con flap
/23.B6	F18	Middle/upper air con flap
/23.B6	F19	3rd hydr. circuit relay (30)
/23.B6	F20	Lower air conditioning flap
/23.B6	F21	3rd hydr. circuit relay (87)

A038		ZE
/22.B4	E1	Rel., R int. wk lts, roof (30)
/22.B5	E2	Air con magnetic clutch
/22.B4	E3	Rel., R int. wk lts, roof (87)
	E4	
	E5	
/22.B5	E6	Exterior mirror heater
/22.B4	E7	15E relay (30)
/22.B5	E8	50a
/22.B4	E9	Left indicator switch
/22.B4	E10	15E relay (86)
/22.B4	E11	Right indicator switch
/22.B4	E12	Rear washer system
/22.B4	E13	15E relay (87)
/22.B4	E14	Main light flash switch
/22.B4	E15	Front washer system
/22.B4	E16	Emergency actuation relay (86)
/22.B4	E17	Emergency actuation relay (86)
/22.B4	E18	Emergency actuation relay (87)
/22.B4	E19	Emergency actuation relay (30)
/22.B4	E20	Rr mudguard wk light rel. (87)
/22.B4	E21	Rr mudguard wk light rel. (30)

A038		ZE
/21.B4	D1	Rel, R ext. wk lts, roof (30)
/21.B5	D2	Reverse op. (turning left)
/21.B4	D3	Rel., R ext. wk lts, roof (87)
	D4	
/21.B5	D5	Front wiper 53
	D6	
/21.B4	D7	Relay 15L (30)
/21.B5	D8	Rear wiper 53
/21.B5	D9	Front wiper 31b
/21.B5	D10	Front washer ON
/21.B4	D11	Rear wiper 31B
	D12	
/21.B4	D13	Relay 15L (87)
/21.B5	D14	Front wiper ON
/21.B5	D15	Front wiper intermittent
/21.B4	D16	Relay 15L (86)
/21.B4	D17	Rear left direction indicator
	D18	
/21.B4	D19	Rotating beacon relay (30)
/21.B4	D20	Rear right direction indicator
/21.B4	D21	Rotating beacon relay (87)

Overview of central electrical system - Sheet 4

FENDT 900 Vario COM III

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FENDT 900 Vario COM III: 919 .. 1847- / 922 .. 2004- / 925 .. 2054- / 928 .. 2291- / 931 .. 1908- / 934 .. 2790-

4 Overview of EXT - Sheet 5**A050** - ECU, basic control unit**5 Overview of EDC/Vario-Doc/air conditioning/B4 TopDock/Auto-Guide terminal - Sheet 6****A051** - ECU, engine control unit (EDC 7). (Item A2, C2, C4)**A053** - ECU, air conditioning control (Item E1, E2)**A055** - ECU, data transfer (Item C6)**A058** - TopDock (Auto-Guide) (Item E4)**A059** - Terminal (Auto-Guide) (Item E6)

A053
Air conditioning

/23.E5	1	Stepper pin 1
/20.E6	2	Stepper pins 2 and 5
/23.E5	3	Stepper pin 3
/23.E5	4	Stepper pin 4
	5	
/23.E5	6	Stepper pin 6
/20.E6	7	Evaporator temperature sensor
/20.E6	8	Sensor system earth

A053
Air conditioning

/23.E4	1	UB 12 V
/23.E4	2	Fan governor
/23.E4	3	Fan diagnostics
/23.E4	4	Earth 31

A051
EDC

	1	
	2	
/27.A3	3	UB actuators
	4	
/27.A3	5	AGR earth
/27.A3	6	Engine brake solenoid valve
/27.A3	7	Heater flange relay
/27.A3	8	Pre-heating sensor switch
/27.A4	9	Camshaft speed sensor
/27.A4	10	Camshaft speed sensor earth
/27.A3	11	AGR solenoid valve
/27.A4	12	Rail sensor earth
/27.A4	13	UB rail sensor
/27.A4	14	Rail sensor
/27.A4	15	Coolant temp. sensor
/27.A4	16	UB fuel low pressure sensor
	17	
/27.A4	18	Fuel low pressure sensor earth
/27.A4	19	Crankshaft speed sensor earth
	20	
	21	
/27.A4	22	Fuel low pressure sensor
/27.A4	23	Crankshaft speed sensor
/27.A4	24	Oil pressure sensor earth
/27.A4	25	Charge air pres. sensor earth
/27.A4	26	Coolant temp. sensor earth
/27.A4	27	Oil pressure sensor
/27.A4	28	Water in fuel sensor
	29	
	30	
	31	
/27.A4	32	UB oil pressure sensor
/27.A4	33	UB charge air pressure sensor
/27.A4	34	Charge air pressure sensor
	35	
/27.A5	36	Charge air temperature sensor

A051
EDC

	1	
/8.F7	2	UB 30
/8.F7	3	UB 30
	4	
/9.A1	5	Earth 31
/9.A1	6	Earth 31
	7	
/8.F7	8	UB 30
/8.F7	9	UB 30
/9.A1	10	Earth 31
/9.A1	11	Earth 31
	12	
	13	
/26.A2	14	Fan solenoid valve (86)
/26.A2	15	Fan solenoid valve (85)
	16	
/26.A3	17	Start relay
	18	
	19	
	20	
/26.A3	21	UB sensors
	22	
	23	
	24	
	25	
	26	
	27	
	28	
/26.A2	29	Electronics earth
	30	
	31	
	32	
	33	
/10.G1	34	Transmission bus_Low
/10.G1	35	Transmission bus_High
	36	
/26.A3	37	Start relay
	38	
	39	
/8.F6	40	UB 15
	41	
/26.A2	42	Vacuum switch
	43	
	44	
	45	
	46	
/26.A3	47	Engine brake switch
	48	
	49	
	50	
	51	
	52	
	53	
	54	
/26.A2	55	Coolant level sensor
	56	
	57	
	58	
	59	
	60	
	61	
	62	
	63	
	64	
	65	
/26.A3	66	Starter lockout switch
/26.A2	67	Fan earth
/26.A2	68	UB fan
/26.A2	69	Fan speed sensor
	70	
	71	
	72	
/26.A3	73	50a
	74	
	75	
	76	
/26.A3	77	UB 5 V foot throttle
/26.A3	78	Foot throttle earth
/26.A3	79	Foot throttle sensor
	80	
	81	
	82	
	83	
	84	
	85	
	86	
	87	
	88	
/26.A3	89	ISO characteristic curve

A058
TopDock B4

/28.F1	1	UB 30
/28.F1	2	UB 30
/28.F1	3	ISO bus_Low
/28.F1	4	ISO bus_High
/28.F1	5	Valve bus_Low
/28.F1	6	V bus_High
/28.F2	7	Serial earth
/28.F1	8	Earth
/28.F2	9	Earth
/28.F2	10	Auto-Guide activation
/28.F2	11	Serial Tx
/28.F2	12	Serial Rx
	13	

A051
EDC

	1	
	2	
/27.A7	3	Injectors 4, 5 and 6 High
/27.A7	4	Injectors 1, 2 and 3 High
	5	
/27.A7	6	Injector 3 Low
	7	
	8	
/27.A7	9	Dispensing unit_High
/27.A7	10	Dispensing unit_Low
	11	
/27.A7	12	Injector 2 Low
/27.A7	13	Injector 1 Low
/27.A7	14	Injector 6 Low
/27.A7	15	Injector 5 Low
/27.A7	16	Injector 4 Low

A059
Auto-Guide terminal

/24.B1	1	UB 30
	2	
	3	
/24.B1	4	Earth
/24.B1	5	ISO bus_High
/24.B2	6	ISO bus_Low
/24.B1	7	UB 15

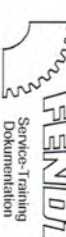
A055
Vario-Doc

/28.E7	1	Control bus_High
/28.E7	2	Control bus_Low
/8.F3	3	UB 15
	4	
	5	
	6	
/28.E7	7	ISO bus_High
/28.E7	8	ISO bus_Low
/8.F3	9	UB 30
	10	
/8.F3	11	Earth
	12	
	13	
	14	
	15	
	16	

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Overview of EDC/Vario-Doc/air conditioning/
B4 TopDock/Auto-Guide terminal - Sheet 6

FENDT 900 Vario COM III



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5 Overview of EDC/Vario-Doc/air conditioning/B4 TopDock/Auto-Guide terminal - Sheet 6

- A051** - ECU, engine control unit (EDC 7). (Item A2, C2, C4)
A053 - ECU, air conditioning control (Item E1, E2)
A055 - ECU, data transfer (Item C6)
A058 - TopDock (Auto-Guide) (Item E4)
A059 - Terminal (Auto-Guide) (Item E6)

6 Supply - Sheet 7

- A038** - ECU, central electrical system (Item C2)
G001 - Battery 1 (Item F5)
G002 - Alternator 1 (Item F4)
G004 - Alternator 2 (Item F4)
K061 - ISO bus disconnect relay (Item E2)
K068 - Relay, battery disconnect (impulse) (Item E3)
K069 - Relay, safety function (battery disconnect) (Item E6)
M001 - starter. (Item F3)
S002 - Switch, ignition (Item C3)
S092 - Battery disconnect switch (Item C7)
X554 - Earth pin, operator platform (Item E7)
X608 - Connector, + UB 15 (Item C5)
X694 - Connector, +UB 30 (A038) (Item A1)
X1425 - Cable coupling, operator platform (Item D5)
X1440 - Fuse holder (Item B 3-7)
X1634 - Connector (+ UB 30) (Item D7)
X1806 - +UB 30 distributor (Item E2)

NOTE: *The wiring diagram shown includes the optional battery disconnect.*

- K068** - Relay, battery disconnect (impulse) (Item E3)
K069 - Relay, safety function (battery disconnect) (Item E6)
S092 - Battery disconnect switch (Item C7)
Cable **WB1001,sw_95** (Item E3)

If the optional battery disconnect is **not** installed, the separation points

- X1679** - Separation point on K068 (Item E4)
X1680 - Separation point on K068 (Item E3)
are connected directly to
X1806 - +UB 30 distributor (Item E2)

NOTE: *The following separation points are all screwed together on one pin:*

- X454** - Separation point on A038 (Item C2)
X455 - Separation point on A038 (Item B2)
X456 - Separation point on A038 (Item B2)

Wichtige Hinweise: Die Verantwortung für die Sicherheit, Integrität und Vollständigkeit der Daten liegt bei dem Benutzer. Die Fendt AG übernimmt keine Haftung für Schäden, die aus dem Gebrauch dieser Dokumentation resultieren. Änderungen vorbehalten. © 2004 Fendt AG

A053 Air conditioning

/23.E5	1	Stepper pin 1
/20.E6	2	Stepper pins 2 and 5
/23.E5	3	Stepper pin 3
/23.E5	4	Stepper pin 4
	5	
/23.E5	6	Stepper pin 6
/20.E6	7	Evaporator temperature sensor
/20.E6	8	Sensor system earth

A053 Air conditioning

/23.E4	1	UB 12 V
/23.E4	2	Fan governor
/23.E4	3	Fan diagnostics
/23.E4	4	Earth 31

A051 EDC

	1	
	2	
/27.A3	3	UB actuators
	4	
/27.A3	5	AGR earth
/27.A3	6	Engine brake solenoid valve
/27.A3	7	Heater flange relay
/27.A3	8	Pre-heating sensor switch
/27.A4	9	Camshaft speed sensor
/27.A4	10	Camshaft speed sensor earth
/27.A3	11	AGR solenoid valve
/27.A4	12	Rail sensor earth
/27.A4	13	UB rail sensor
/27.A4	14	Rail sensor
/27.A4	15	Coolant temp. sensor
/27.A4	16	UB fuel low pressure sensor
	17	
/27.A4	18	Fuel low pressure sensor earth
/27.A4	19	Crankshaft speed sensor earth
	20	
	21	
/27.A4	22	Fuel low pressure sensor
/27.A4	23	Crankshaft speed sensor
/27.A4	24	Oil pressure sensor earth
/27.A4	25	Charge air pres. sensor earth
/27.A4	26	Coolant temp. sensor earth
/27.A4	27	Oil pressure sensor
/27.A4	28	Water in fuel sensor
	29	
	30	
	31	
/27.A4	32	UB oil pressure sensor
/27.A4	33	UB charge air pressure sensor
/27.A4	34	Charge air pressure sensor
	35	
/27.A5	36	Charge air temperature sensor

A051 EDC

	1	
/8.F7	2	UB 30
/8.F7	3	UB 30
	4	
/9.A1	5	Earth 31
/9.A1	6	Earth 31
	7	
/8.F7	8	UB 30
/8.F7	9	UB 30
/9.A1	10	Earth 31
/9.A1	11	Earth 31
	12	
	13	
/26.A2	14	Fan solenoid valve (86)
/26.A2	15	Fan solenoid valve (85)
	16	
/26.A3	17	Start relay
	18	
	19	
	20	
/26.A3	21	UB sensors
	22	
	23	
	24	
	25	
	26	
	27	
	28	
/26.A2	29	Electronics earth
	30	
	31	
	32	
	33	
/10.G1	34	Transmission bus_Low
/10.G1	35	Transmission bus_High
	36	
/26.A3	37	Start relay
	38	
	39	
/8.F6	40	UB 15
	41	
/26.A2	42	Vacuum switch
	43	
	44	
	45	
	46	
/26.A3	47	Engine brake switch
	48	
	49	
	50	
	51	
	52	
	53	
	54	
/26.A2	55	Coolant level sensor
	56	
	57	
	58	
	59	
	60	
	61	
	62	
	63	
	64	
	65	
/26.A3	66	Starter lockout switch
/26.A2	67	Fan earth
/26.A2	68	UB fan
/26.A2	69	Fan speed sensor
	70	
	71	
	72	
	73	
/26.A3	74	50a
	75	
	76	
/26.A3	77	UB 5 V foot throttle
/26.A3	78	Foot throttle earth
/26.A3	79	Foot throttle sensor
	80	
	81	
	82	
	83	
	84	
	85	
	86	
	87	
	88	
/26.A3	89	ISO characteristic curve

A058 TopDock B4

/28.F1	1	UB 30
/28.F1	2	UB 30
/28.F1	3	ISO bus_Low
/28.F1	4	ISO bus_High
/28.F1	5	Valve bus_Low
/28.F1	6	V bus_High
/28.F2	7	Serial earth
/28.F1	8	Earth
/28.F2	9	Earth
/28.F2	10	Auto-Guide activation
/28.F2	11	Serial Tx
/28.F2	12	Serial Rx
	13	

A051 EDC

	1	
	2	
/27.A7	3	Injectors 4, 5 and 6 High
/27.A7	4	Injectors 1, 2 and 3 High
	5	
/27.A7	6	Injector 3 Low
	7	
	8	
/27.A7	9	Dispensing unit_High
/27.A7	10	Dispensing unit_Low
	11	
/27.A7	12	Injector 2 Low
/27.A7	13	Injector 1 Low
/27.A7	14	Injector 6 Low
/27.A7	15	Injector 5 Low
/27.A7	16	Injector 4 Low

A059 Auto-Guide terminal

/24.B1	1	UB 30
	2	
	3	
/24.B1	4	Earth
/24.B1	5	ISO bus_High
/24.B2	6	ISO bus_Low
/24.B1	7	UB 15

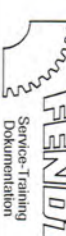
A055 Vario-Door

/28.E7	1	Control bus_High
/28.E7	2	Control bus_Low
/8.F3	3	UB 15
	4	
	5	
	6	
/28.E7	7	ISO bus_High
/28.E7	8	ISO bus_Low
/8.F3	9	UB 30
	10	
/8.F3	11	Earth
	12	
	13	
	14	
	15	
	16	

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Overview of EDC/Vario-Door/air conditioning/
B4 TopDock/Auto-Guide terminal - Sheet 6

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6 Supply - Sheet 7

A038 - ECU, central electrical system (Item C2)
G001 - Battery 1 (Item F5)
G002 - Alternator 1 (Item F4)
G004 - Alternator 2 (Item F4)
K061 - ISO bus disconnect relay (Item E2)
K068 - Relay, battery disconnect (impulse) (Item E3)
K069 - Relay, safety function (battery disconnect) (Item E6)
M001 - starter. (Item F3)
S002 - Switch, ignition (Item C3)
S092 - Battery disconnect switch (Item C7)
X554 - Earth pin, operator platform (Item E7)
X608 - Connector, + UB 15 (Item C5)
X694 - Connector, +UB 30 (A038) (Item A1)
X1425 - Cable coupling, operator platform (Item D5)
X1440 - Fuse holder (Item B 3-7)
X1634 - Connector (+ UB 30) (Item D7)
X1806 - +UB 30 distributor (Item E2)

NOTE: The wiring diagram shown includes the optional battery disconnect.

K068 - Relay, battery disconnect (impulse) (Item E3)
K069 - Relay, safety function (battery disconnect) (Item E6)
S092 - Battery disconnect switch (Item C7)
 Cable **WB1001,sw_95** (Item E3)

If the optional battery disconnect is **not** installed, the separation points

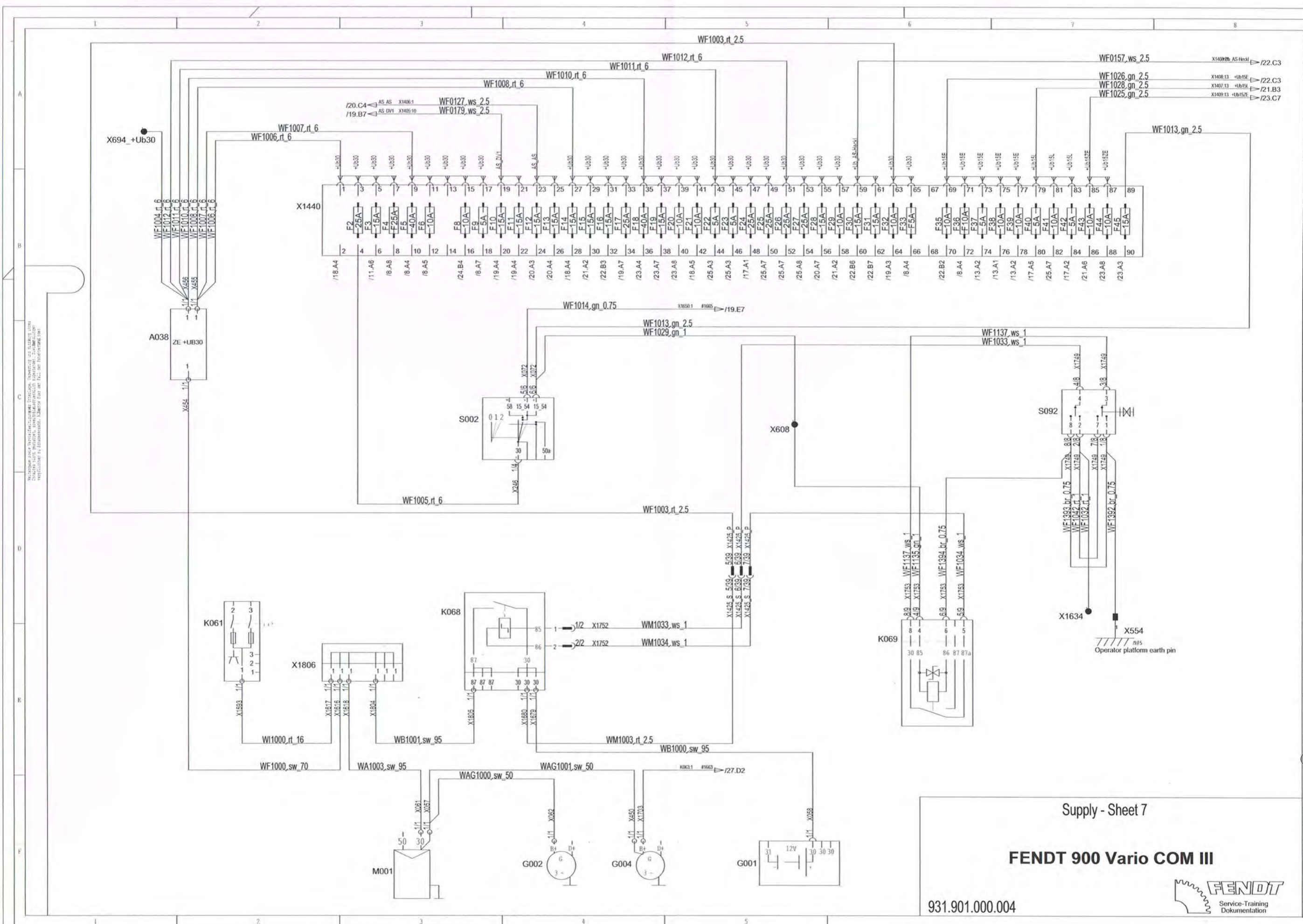
X1679 - Separation point on K068 (Item E4)
X1680 - Separation point on K068 (Item E3)
 are connected directly to
X1806 - +UB 30 distributor (Item E2)

NOTE: The following separation points are all screwed together on one pin:

X454 - Separation point on A038 (Item C2)
X455 - Separation point on A038 (Item B2)
X456 - Separation point on A038 (Item B2)

7 Electronics supply - Sheet 8

A007 - Instrument panel (Item F5)
A013 - PCB, microfuses (Item A3, A6)
A036 - Control panel, dashboard right/left (Item A7)
A039 - MFA, multifunction armrest (Item D5)
A050 - ECU, basic control unit (Item A1, A2)
A051 - ECU, engine control unit (EDC 7). (Item E6)
A055 - ECU, data transfer (Item F3)
A073 - Terminal (A4) (Item F5)
K061 - ISO bus disconnect relay (Item E1)
X511 - Earth pin, engine (Item F2)
X554 - Earth pin, operator platform (Item D3)
X629 - Connector, + UB 30 (Item C3)
X692 - Connector, +UB 30 (A051) (Item C8)
X1401 - Separation point on A039 (Item D5)
X1425 - Cable coupling, operator platform (Item D2; D8)
X1440 - Fuse holder (Item A4 - 8)
X1578 - Connector, + UB 15 (Item C5)
X1634 - Connector (+ UB 30) (Item C4)
X1635 - Cable coupling, operator platform (Item D3)
X1636 - Vario-Doc cable coupling (Item D3)
X1787 - Connector, + UB 15 (Item C6)



Supply - Sheet 7

FENDT 900 Vario COM III

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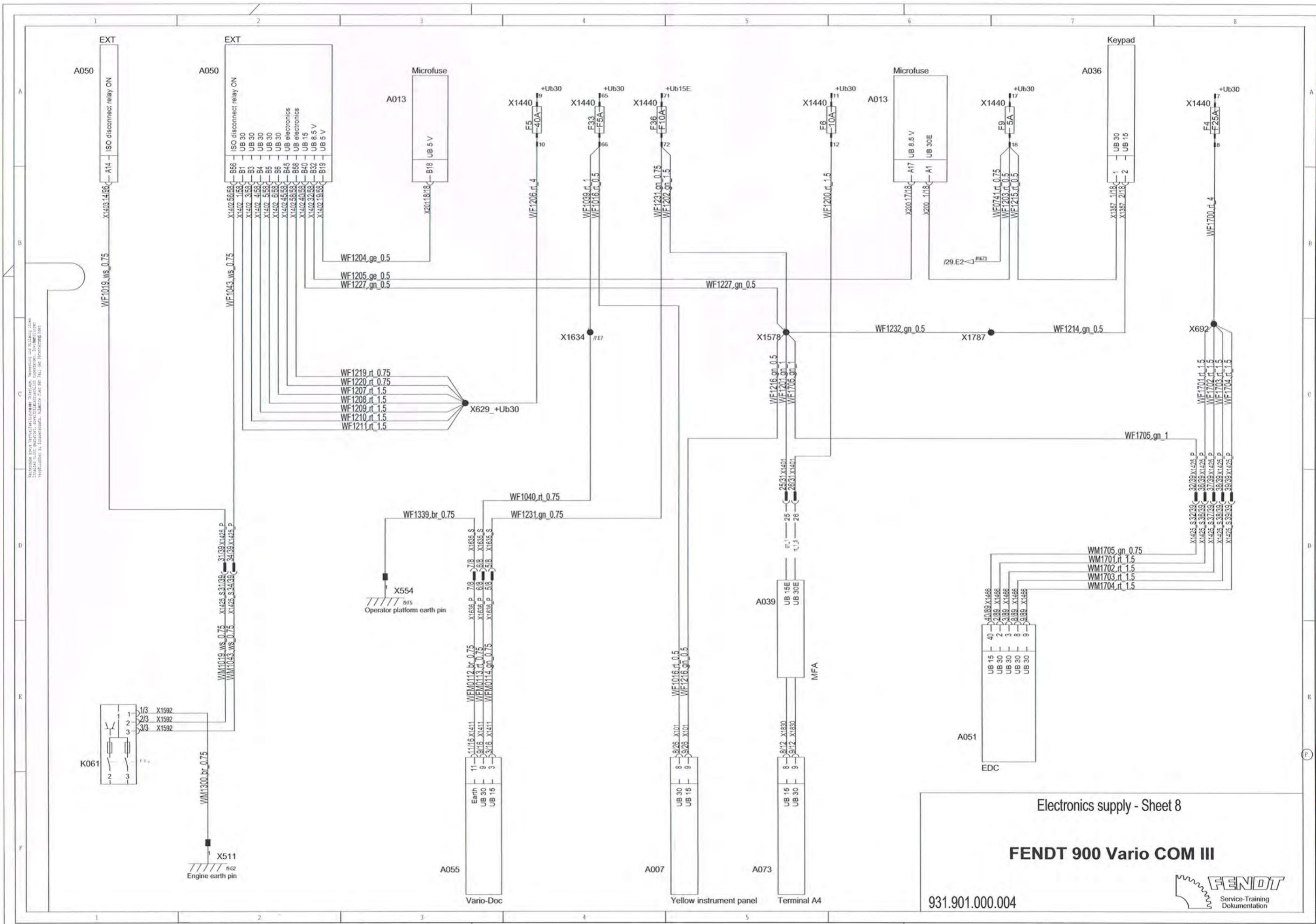


7 Electronics supply - Sheet 8

A007 - Instrument panel (Item F5)
A013 - PCB, microfuses (Item A3, A6)
A036 - Control panel, dashboard right/left (Item A7)
A039 - MFA, multifunction armrest (Item D5)
A050 - ECU, basic control unit (Item A1, A2)
A051 - ECU, engine control unit (EDC 7). (Item E6)
A055 - ECU, data transfer (Item F3)
A073 - Terminal (A4) (Item F5)
K061 - ISO bus disconnect relay (Item E1)
X511 - Earth pin, engine (Item F2)
X554 - Earth pin, operator platform (Item D3)
X629 - Connector, + UB 30 (Item C3)
X692 - Connector, +UB 30 (A051) (Item C8)
X1401 - Separation point on A039 (Item D5)
X1425 - Cable coupling, operator platform (Item D2; D8)
X1440 - Fuse holder (Item A4 - 8)
X1578 - Connector, + UB 15 (Item C5)
X1634 - Connector (+ UB 30) (Item C4)
X1635 - Cable coupling, operator platform (Item D3)
X1636 - Vario-Doc cable coupling (Item D3)
X1787 - Connector, + UB 15 (Item C6)

8 Earth layout - Sheet 9

A007 - Instrument panel (Item A5)
A013 - PCB, microfuses (Item A8)
A036 - Control panel, dashboard right/left (Item A4)
A039 - MFA, multifunction armrest (Item C5)
A050 - ECU, basic control unit (Item A2, A3)
A051 - ECU, engine control unit (EDC 7). (Item A1)
A073 - Terminal (A4) (Item A5)
G001 - Battery 1 (Item F1)
X510 - Earth pin, engine left (Item F2)
X511 - Earth pin, engine (Item F2)
X512 - Earth pin, engine (Item F2)
X513 - Earth pin, engine (Item F3)
X520 - Earth pin, oil sump right (Item F3)
X521 - Earth pin, engine (Item F3)
X532 - Earth pin, cab body (Item E7)
X533 - Earth pin, cab body (Item E6)
X534 - Earth pin, cab body (Item E6)
X550 - Earth pin, operator platform right (Item E4)
X551 - Earth pin, operator platform right (Item E4)
X552 - Earth pin, operator platform (Item E5)
X553 - Earth pin, operator platform (Item E5)
X554 - Earth pin, operator platform (Item E5)
X558 - Earth pin, transmission (Item F4)
X559 - Earth pin, transmission (Item F4)
X570 - Earth pin, transmission (Item F5)
X571 - Earth pin, transmission (Item F5)
X572 - Earth pin, transmission (Item F5)
X573 - Earth pin, transmission (Item F4)
X574 - Earth pin, transmission (Item F6)
X619 - Connector, electronics earth (Item C4)
X620 - Connector, sensor system earth (Item D2, B7)
X621 - Connector, sensor system earth (Item D2, B6)
X627 - Connector, electronics earth (Item C4, C8)
X643 - Connector, instrument panel earth (Item C4)
X660 - Connector, sensor system earth (Item A6)
X661 - Connector, electronics earth (Item D4)
X668 - Connector, sensor system earth (Item E6)
X669 - Connector, sensor system earth (Item D7)
X671 - Connector, sensor system earth (Item D6)
X672 - Connector, sensor system earth (Item D7)
X673 - Connector, sensor system earth (Item D7)
X674 - Connector, sensor system earth (Item E8)
X794 - Connector, earth (A051) (Item C1)
X1401 - Separation point on A039 (Item D5/6)
X1423 - Cable coupling, operator platform/transmission (Item C7)
X1425 - Cable coupling, operator platform (Item C6/7)
X5028 - Connector, cab earth pin (Item E7)



Electronics supply - Sheet 8

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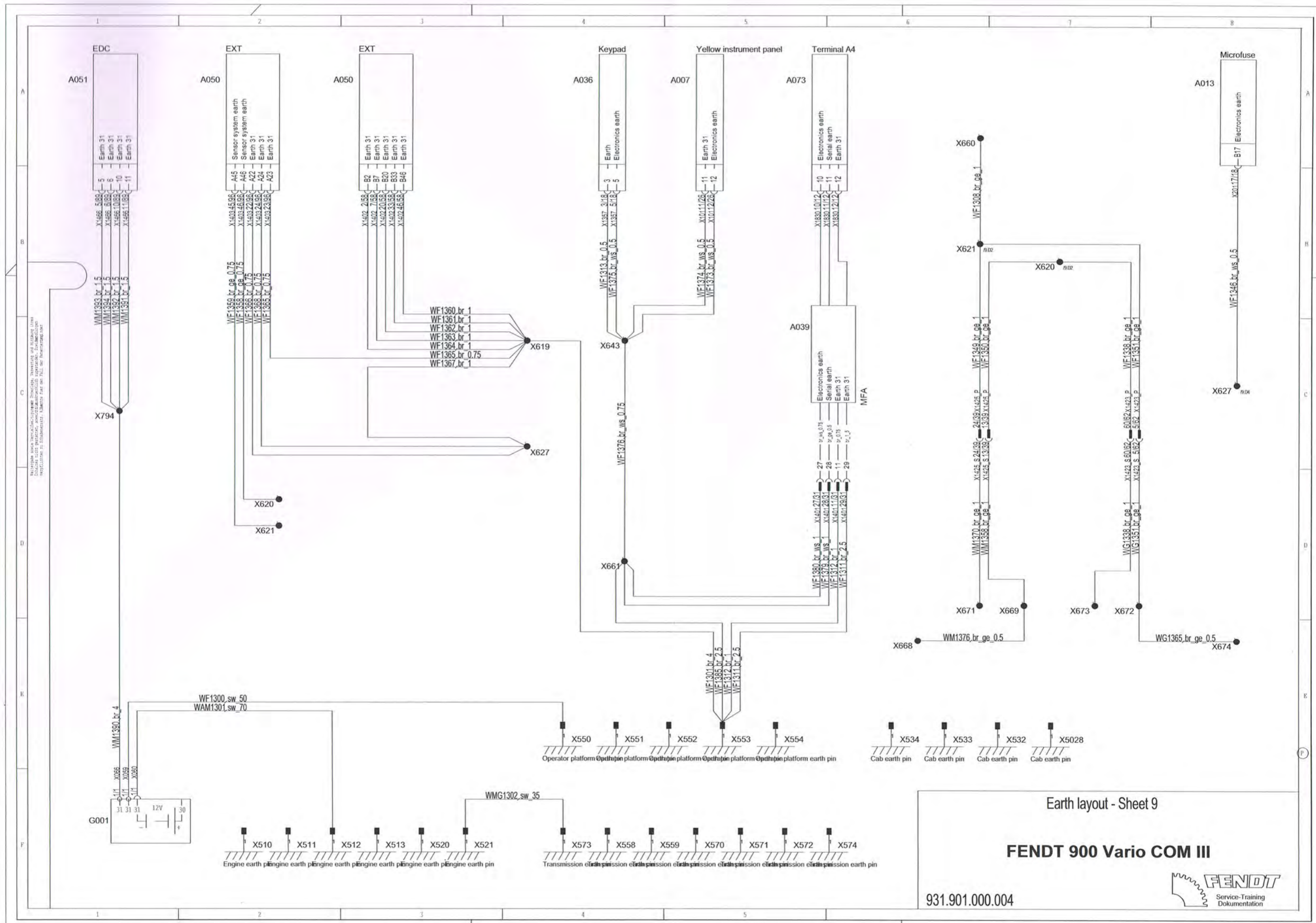
8 Earth layout - Sheet 9

A007 - Instrument panel (Item A5)
A013 - PCB, microfuses (Item A8)
A036 - Control panel, dashboard right/left (Item A4)
A039 - MFA, multifunction armrest (Item C5)
A050 - ECU, basic control unit (Item A2, A3)
A051 - ECU, engine control unit (EDC 7). (Item A1)
A073 - Terminal (A4) (Item A5)
G001 - Battery 1 (Item F1)
X510 - Earth pin, engine left (Item F2)
X511 - Earth pin, engine (Item F2)
X512 - Earth pin, engine (Item F2)
X513 - Earth pin, engine (Item F3)
X520 - Earth pin, oil sump right (Item F3)
X521 - Earth pin, engine (Item F3)
X532 - Earth pin, cab body (Item E7)
X533 - Earth pin, cab body (Item E6)
X534 - Earth pin, cab body (Item E6)
X550 - Earth pin, operator platform right (Item E4)
X551 - Earth pin, operator platform right (Item E4)
X552 - Earth pin, operator platform (Item E5)
X553 - Earth pin, operator platform (Item E5)
X554 - Earth pin, operator platform (Item E5)
X558 - Earth pin, transmission (Item F4)
X559 - Earth pin, transmission (Item F4)
X570 - Earth pin, transmission (Item F5)
X571 - Earth pin, transmission (Item F5)
X572 - Earth pin, transmission (Item F5)
X573 - Earth pin, transmission (Item F4)
X574 - Earth pin, transmission (Item F6)
X619 - Connector, electronics earth (Item C4)
X620 - Connector, sensor system earth (Item D2, B7)
X621 - Connector, sensor system earth (Item D2, B6)
X627 - Connector, electronics earth (Item C4, C8)
X643 - Connector, instrument panel earth (Item C4)
X660 - Connector, sensor system earth (Item A6)
X661 - Connector, electronics earth (Item D4)
X668 - Connector, sensor system earth (Item E6)
X669 - Connector, sensor system earth (Item D7)
X671 - Connector, sensor system earth (Item D6)
X672 - Connector, sensor system earth (Item D7)
X673 - Connector, sensor system earth (Item D7)
X674 - Connector, sensor system earth (Item E8)
X794 - Connector, earth (A051) (Item C1)
X1401 - Separation point on A039 (Item D5/6)
X1423 - Cable coupling, operator platform/transmission (Item C7)
X1425 - Cable coupling, operator platform (Item C6/7)
X5028 - Connector, cab earth pin (Item E7)

9 G bus/K bus/V bus/ISO bus - Sheet 10

A007 - Instrument panel (Item A3)
A009 - Actuator unit (Item E8)
A013 - PCB, microfuses (Item A6-8)
A036 - Control panel, dashboard right/left (Item A3)
A039 - MFA, multifunction armrest (Item B2)
A050 - ECU, basic control unit (Item A4-5)
A051 - ECU, engine control unit (EDC 7). (Item F1)
A073 - Terminal (A4) (Item C1)
X037 - Separation point on A009 (Item E7)
X598 - Connector, K bus_High (Item D 6/7)
X599 - Connector, K bus_Low (Item D 6/7)
X707 - Connector, ISO bus_Low (Item C4)
X708 - Connector, ISO bus_High (Item C4)
X711 - Connector, V bus_High (Item D4)
X712 - Connector, V bus_Low (Item D4)
X714 - Connector, G bus_Low (Item C6)
X715 - Connector, G bus_High (Item C6)
X718 - Connector, K bus_Low (Item D4)
X719 - Connector, K bus_High (Item D4)
X725 - Connector, K bus_High (Item D6)
X726 - Connector, K bus_Low (Item D6)
X738 - Connector, serial RXD (Item E6)
X739 - Connector, serial TXD (Item E6)
X1343 - Connector, G bus_High (Item D5)
X1344 - Connector, G bus_Low (Item D5)
X1401 - Separation point on A039 (Item C2)
X1417 - Cable coupling, operator platform/cab (Item E3, E7)
X1423 - Cable coupling, operator platform/transmission (Item EF 6)
X1424 - Cable coupling, operator platform (Item E4)
X1463 - Connector, G bus_High (Item E 2/3)
X1464 - Connector, G bus_Low (Item E 2/3)
X1597 - Cable coupling A059 (Item D6)
X1635 - Cable coupling, operator platform (Item CD 2/3)

NOTE: The bridge connector must be fitted to **X1597** - Cable coupling A059 (Item D6).



9 G bus/K bus/V bus/ISO bus - Sheet 10

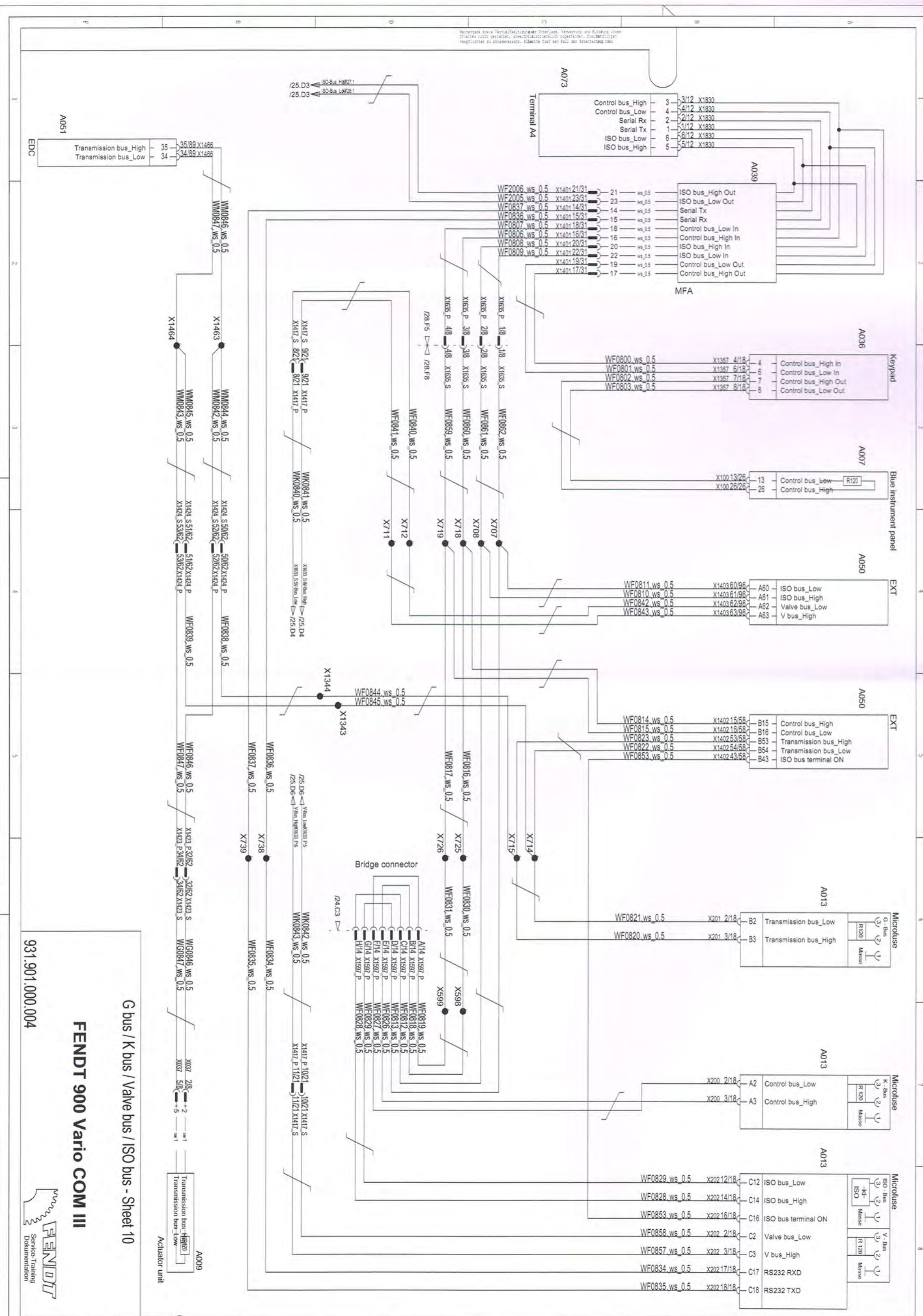
A007 - Instrument panel (Item A3)
A009 - Actuator unit (Item E8)
A013 - PCB, microfuses (Item A6-8)
A036 - Control panel, dashboard right/left (Item A3)
A039 - MFA, multifunction armrest (Item B2)
A050 - ECU, basic control unit (Item A4-5)
A051 - ECU, engine control unit (EDC 7). (Item F1)
A073 - Terminal (A4) (Item C1)
X037 - Separation point on A009 (Item E7)
X598 - Connector, K bus_High (Item D 6/7)
X599 - Connector, K bus_Low (Item D 6/7)
X707 - Connector, ISO bus_Low (Item C4)
X708 - Connector, ISO bus_High (Item C4)
X711 - Connector, V bus_High (Item D4)
X712 - Connector, V bus_Low (Item D4)
X714 - Connector, G bus_Low (Item C6)
X715 - Connector, G bus_High (Item C6)
X718 - Connector, K bus_Low (Item D4)
X719 - Connector, K bus_High (Item D4)
X725 - Connector, K bus_High (Item D6)
X726 - Connector, K bus_Low (Item D6)
X738 - Connector, serial RXD (Item E6)
X739 - Connector, serial TXD (Item E6)
X1343 - Connector, G bus_High (Item D5)
X1344 - Connector, G bus_Low (Item D5)
X1401 - Separation point on A039 (Item C2)
X1417 - Cable coupling, operator platform/cab (Item E3, E7)
X1423 - Cable coupling, operator platform/transmission (Item EF 6)
X1424 - Cable coupling, operator platform (Item E4)
X1463 - Connector, G bus_High (Item E 2/3)
X1464 - Connector, G bus_Low (Item E 2/3)
X1597 - Cable coupling A059 (Item D6)
X1635 - Cable coupling, operator platform (Item CD 2/3)

NOTE: The bridge connector must be fitted to **X1597** - Cable coupling A059 (Item D6).

10 Transmission control system - Sheet 11

A009 - Actuator unit (Item F5)
A013 - PCB, microfuses (Item A7, A8)
A039 - MFA, multifunction armrest (Item CD4)
A050 - ECU, basic control unit (Item A3, A 5/6)
B008 - Sensor, high-pressure 1 (Item F4)
B009 - Discharge temperature sensor (Item F2)
B010 - Sensor, engine speed (Item D8)
B014 - Sensor, collecting shaft (Item F3)
B015 - Sensor, bevel pinion (Item F3)
B016 - Sensor, travel range detection (Item F4)
B017 - Sensor, clutch pedal (Item CD 1/2)
B039 - Sensor, high-pressure 2 (Item F5)
H009 - Blip signal, reversing (Item A1)
S005 - Switch, right brake only with/21/ (Item CD2)
S006 - Switch, left brake (Item CD3)
S017 - Filter contamination switch (Item F3)
S045 - Switch, reversing driver stand (Item CD3)
S079 - Switch, steering column (Item D1)
S080 - Switch, hand brake (Item F 1/2)
X037 - Separation point on A009 (Item E5)
X554 - Earth pin, operator platform (Item B2)
X571 - Earth pin, transmission (Item E8)
X621 - Connector, sensor system earth (Item B3)
X627 - Connector, electronics earth (Item C7)
X660 - Connector, sensor system earth (Item B1)
X671 - Connector, sensor system earth (Item C8)
X672 - Connector, sensor system earth (Item E4)
X673 - Connector, sensor system earth (Item E1)
X1401 - Separation point on A039 (Item C4)
X1418 - Cable coupling, operator platform/transmission (Item C4)
X1423 - Cable coupling, operator platform/transmission (Item CD 4 -6)
X1425 - Cable coupling, operator platform (Item C8)
X1440 - Fuse holder (Item A6)
X1590 - Separation point on S079 (Item C1)
X1751 - Separation point, left frame earth point (Item B 1/2)
Y002 - Solenoid valve, travel range I (Item E8)
Y003 - Solenoid valve, travel range II (Item E7)
Y005 - Solenoid valve, speed governor (Item E6)
Y009 - Solenoid valve, 4WD (Item E7)
Y010 - Solenoid valve, differential lock (Item E7)
Y053 - Active hold function solenoid valve (Item E6)

Rechnung nach Normen/DIN EN 60204-1, 60204-2, 60204-3, 60204-4, 60204-5, 60204-6, 60204-7, 60204-8, 60204-9, 60204-10, 60204-11, 60204-12, 60204-13, 60204-14, 60204-15, 60204-16, 60204-17, 60204-18, 60204-19, 60204-20, 60204-21, 60204-22, 60204-23, 60204-24, 60204-25, 60204-26, 60204-27, 60204-28, 60204-29, 60204-30, 60204-31, 60204-32, 60204-33, 60204-34, 60204-35, 60204-36, 60204-37, 60204-38, 60204-39, 60204-40, 60204-41, 60204-42, 60204-43, 60204-44, 60204-45, 60204-46, 60204-47, 60204-48, 60204-49, 60204-50, 60204-51, 60204-52, 60204-53, 60204-54, 60204-55, 60204-56, 60204-57, 60204-58, 60204-59, 60204-60, 60204-61, 60204-62, 60204-63, 60204-64, 60204-65, 60204-66, 60204-67, 60204-68, 60204-69, 60204-70, 60204-71, 60204-72, 60204-73, 60204-74, 60204-75, 60204-76, 60204-77, 60204-78, 60204-79, 60204-80, 60204-81, 60204-82, 60204-83, 60204-84, 60204-85, 60204-86, 60204-87, 60204-88, 60204-89, 60204-90, 60204-91, 60204-92, 60204-93, 60204-94, 60204-95, 60204-96, 60204-97, 60204-98, 60204-99, 60204-100



G bus / K bus / Valve bus / ISO bus - Sheet 10

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10 Transmission control system - Sheet 11

A009 - Actuator unit (Item F5)
A013 - PCB, microfuses (Item A7, A8)
A039 - MFA, multifunction armrest (Item CD4)
A050 - ECU, basic control unit (Item A3, A 5/6)
B008 - Sensor, high-pressure 1 (Item F4)
B009 - Discharge temperature sensor (Item F2)
B010 - Sensor, engine speed (Item D8)
B014 - Sensor, collecting shaft (Item F3)
B015 - Sensor, bevel pinion (Item F3)
B016 - Sensor, travel range detection (Item F4)
B017 - Sensor, clutch pedal (Item CD 1/2)
B039 - Sensor, high-pressure 2 (Item F5)
H009 - Blip signal, reversing (Item A1)
S005 - Switch, right brake only with/21/ (Item CD2)
S006 - Switch, left brake (Item CD3)
S017 - Filter contamination switch (Item F3)
S045 - Switch, reversing driver stand (Item CD3)
S079 - Switch, steering column (Item D1)
S080 - Switch, hand brake (Item F 1/2)
X037 - Separation point on A009 (Item E5)
X554 - Earth pin, operator platform (Item B2)
X571 - Earth pin, transmission (Item E8)
X621 - Connector, sensor system earth (Item B3)
X627 - Connector, electronics earth (Item C7)
X660 - Connector, sensor system earth (Item B1)
X671 - Connector, sensor system earth (Item C8)
X672 - Connector, sensor system earth (Item E4)
X673 - Connector, sensor system earth (Item E1)
X1401 - Separation point on A039 (Item C4)
X1418 - Cable coupling, operator platform/transmission (Item C4)
X1423 - Cable coupling, operator platform/transmission (Item CD 4 -6)
X1425 - Cable coupling, operator platform (Item C8)
X1440 - Fuse holder (Item A6)
X1590 - Separation point on S079 (Item C1)
X1751 - Separation point, left frame earth point (Item B 1/2)
Y002 - Solenoid valve, travel range I (Item E8)
Y003 - Solenoid valve, travel range II (Item E7)
Y005 - Solenoid valve, speed governor (Item E6)
Y009 - Solenoid valve, 4WD (Item E7)
Y010 - Solenoid valve, differential lock (Item E7)
Y053 - Active hold function solenoid valve (Item E6)

11 Hydraulics - Sheet 12

A013 - PCB, microfuses (Item A3)
A050 - ECU, basic control unit (Item A2, A4)
B030 - Sensor, rear power lift position (Item E7)
B031 - Sensor, draft sensing pin, right (Item E7)
B032 - Sensor, draft sensing pin, left (Item E7)
B040 - Sensor, front power lift position (Item F3)
B063 - Pressure switch, filter contamination (hydraulic circuit) (Item F1)
S021 - Button, front power lift, external raise (Item F3)
S022 - Button, front power lift, external lower (Item F2)
S025 - Switch, LS pump pressure monitor (Item F2)
S026 - Switch, steering pump flow controller (Item F2)
S027 - Button, rear power lift, right-hand external raise (Item A7)
S028 - Button, rear power lift, right-hand external lower (Item A8)
S029 - Button, rear power lift, left-hand external raise (Item A6)
S030 - Button, rear power lift, left-hand external lower (Item A6)
S067 - Button, valve actuation, external raise (Item A7)
S068 - Button, valve actuation, external lower (Item A7)
S075 - Switch, guard rail pump flow monitor (Item F1)
X008 - Socket, on-board computer counter input (Item CD 5/6)
X015 - External control socket (Item E8)
X510 - Earth pin, engine left (Item F5)
X533 - Earth pin, cab body (Item D4)
X570 - Earth pin, transmission (Item E6)
X572 - Earth pin, transmission (Item D8)
X620 - Connector, sensor system earth (Item B4)
X627 - Connector, electronics earth (Item C4)
X668 - Connector, sensor system earth (Item E1)
X671 - Connector, sensor system earth (Item F3)
X673 - Connector, sensor system earth (Item D6)
X838 - Separation point on X015 socket, external control (Item D8)
X1418 - Cable coupling, operator platform/transmission (Item C5)
X1419 - Cab cable coupling (Item CD4)
X1421 - Cable coupling, operator platform (Item BC5)
X1422 - Cable coupling, mudguard (Item B 5)
X1423 - Cable coupling, operator platform/transmission (Item D 2/3)
X1425 - Cable coupling, operator platform (Item D 1/2)
X1461 - Connector, sensor system earth (left mudguard) (Item B6)
X1462 - Connector, sensor system earth (right mudguard) (Item C6)
Y012 - Oil pre-heater/load suspension solenoid valve (Item F4)

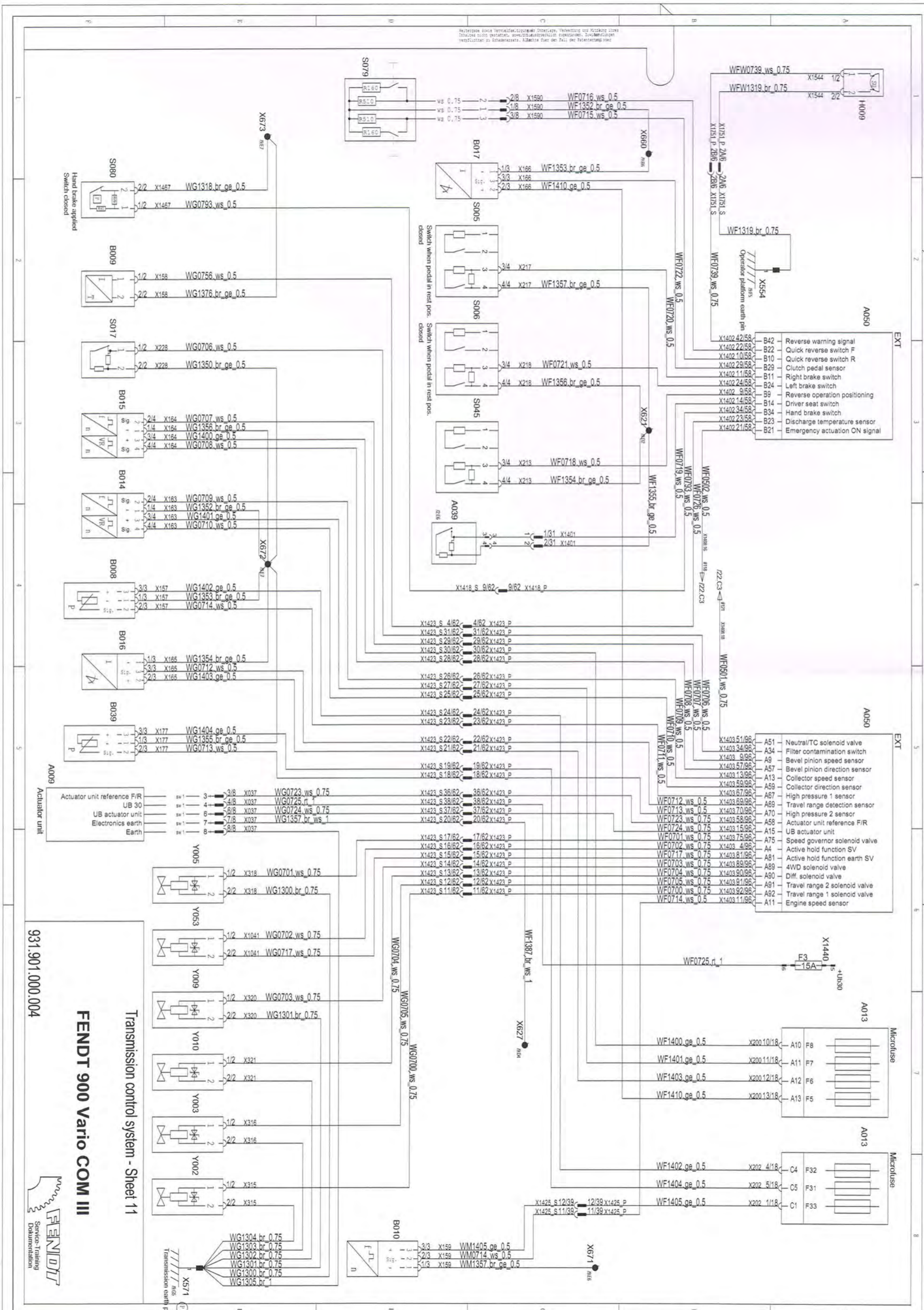
NOTE:**Front power lift standard version**

Y021 - Lifting solenoid valve (standard front power lift) (Item F4)
Y022 - Lowering solenoid valve (standard front power lift) (Item F 4/5)

Front power lift enhanced control version

Y021 - Front pressure compensator lock valve (Item F4)
Y022 - Field pressure control solenoid valve (front), (Item F 4/5)
Y032 - Control pressure solenoid valve (Item F5)
Y055 - Rear pressure compensator lock valve (Item CD7)
Y060 - Hydraulic oil pre-heater solenoid valve (rear) (Item CD7)
Y061 - hydraulic oil pre-heater solenoid valve (middle) (Item F 5/6)
Y062 - Solenoid valve, field pressure control (rear) (Item CD7)
Y084 - Solenoid valve, Power Beyond (Item E6)

Wahrnehmung eines Verkehrsunfalls, Unfälle, Vermeidung und Minderung eines
Zusatzes durch geeignete, geeignete, geeignete, geeignete, geeignete, geeignete,
Vermeidung eines Verkehrsunfalls, Unfälle, Vermeidung und Minderung eines
Zusatzes durch geeignete, geeignete, geeignete, geeignete, geeignete, geeignete,
Vermeidung eines Verkehrsunfalls, Unfälle, Vermeidung und Minderung eines
Zusatzes durch geeignete, geeignete, geeignete, geeignete, geeignete, geeignete,



- B42 - Reverse warning signal
- B22 - Quick reverse switch F
- B10 - Quick reverse switch R
- B29 - Clutch pedal sensor
- B11 - Right brake switch
- B24 - Left brake switch
- B9 - Reverse operation positioning
- B14 - Driver seat switch
- B34 - Hand brake switch
- B23 - Discharge temperature sensor
- B21 - Emergency actuation ON signal

- A51 - Neutral/TC solenoid valve
- A34 - Filter contamination switch
- A9 - Bevel pinion speed sensor
- A57 - Bevel pinion direction sensor
- A13 - Collector speed sensor
- A59 - Collector direction sensor
- A67 - High pressure 1 sensor
- A69 - Travel range detection sensor
- A70 - High pressure 2 sensor
- A58 - Actuator unit reference F/R
- A15 - UB actuator unit
- A75 - Speed governor solenoid valve
- A4 - Active hold function SV
- A81 - Active hold function earth SV
- A89 - 4WD solenoid valve
- A90 - Diff. solenoid valve
- A91 - Travel range 2 solenoid valve
- A92 - Travel range 1 solenoid valve
- A11 - Engine speed sensor

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Transmission control system - Sheet 11



11 Hydraulics - Sheet 12

- A013 - PCB, microfuses (Item A3)
- A050 - ECU, basic control unit (Item A2, A4)
- B030 - Sensor, rear power lift position (Item E7)
- B031 - Sensor, draft sensing pin, right (Item E7)
- B032 - Sensor, draft sensing pin, left (Item E7)
- B040 - Sensor, front power lift position (Item F3)
- B063 - Pressure switch, filter contamination (hydraulic circuit) (Item F1)
- S021 - Button, front power lift, external raise (Item F3)
- S022 - Button, front power lift, external lower (Item F2)
- S025 - Switch, LS pump pressure monitor (Item F2)
- S026 - Switch, steering pump flow controller (Item F2)
- S027 - Button, rear power lift, right-hand external raise (Item A7)
- S028 - Button, rear power lift, right-hand external lower (Item A8)
- S029 - Button, rear power lift, left-hand external raise (Item A6)
- S030 - Button, rear power lift, left-hand external lower (Item A6)
- S067 - Button, valve actuation, external raise (Item A7)
- S068 - Button, valve actuation, external lower (Item A7)
- S075 - Switch, guard rail pump flow monitor (Item F1)
- X008 - Socket, on-board computer counter input (Item CD 5/6)
- X015 - External control socket (Item E8)
- X510 - Earth pin, engine left (Item F5)
- X533 - Earth pin, cab body (Item D4)
- X570 - Earth pin, transmission (Item E6)
- X572 - Earth pin, transmission (Item D8)
- X620 - Connector, sensor system earth (Item B4)
- X627 - Connector, electronics earth (Item C4)
- X668 - Connector, sensor system earth (Item E1)
- X671 - Connector, sensor system earth (Item F3)
- X673 - Connector, sensor system earth (Item D6)
- X838 - Separation point on X015 socket, external control (Item D8)
- X1418 - Cable coupling, operator platform/transmission (Item C5)
- X1419 - Cab cable coupling (Item CD4)
- X1421 - Cable coupling, operator platform (Item BC5)
- X1422 - Cable coupling, mudguard (Item B 5)
- X1423 - Cable coupling, operator platform/transmission (Item D 2/3)
- X1425 - Cable coupling, operator platform (Item D 1/2)
- X1461 - Connector, sensor system earth (left mudguard) (Item B6)
- X1462 - Connector, sensor system earth (right mudguard) (Item C6)
- Y012 - Oil pre-heater/load suspension solenoid valve (Item F4)

NOTE:

Front power lift standard version

- Y021 - Lifting solenoid valve (standard front power lift) (Item F4)
- Y022 - Lowering solenoid valve (standard front power lift) (Item F 4/5)

Front power lift enhanced control version

- Y021 - Front pressure compensator lock valve (Item F4)
- Y022 - Field pressure control solenoid valve (front), (Item F 4/5)
- Y032 - Control pressure solenoid valve (Item F5)
- Y055 - Rear pressure compensator lock valve (Item CD7)
- Y060 - Hydraulic oil pre-heater solenoid valve (rear) (Item CD7)
- Y061 - hydraulic oil pre-heater solenoid valve (middle) (Item F 5/6)
- Y062 - Solenoid valve, field pressure control (rear) (Item CD7)
- Y084 - Solenoid valve, Power Beyond (Item E6)

12 Hydraulics/Auto-Guide - Sheet 13

- A011 - Radar sensor (Item F 3/4)
- X510 - Earth pin, engine left (Item E3)
- X513 - Earth pin, engine (Item D1)
- X571 - Earth pin, transmission (Item D3)
- X711 - Connector, V bus_High (Item B1)
- X712 - Connector, V bus_Low (Item B1)
- X1418 - Cable coupling, operator platform/transmission (Item B3)
- X1423 - Cable coupling, operator platform/transmission (Item C2)
- X1424 - Cable coupling, operator platform (Item C2)
- X1440 - Fuse holder (Item A1-2)
- X1491 - Rear V bus terminal (120 Ω) (Item E8)
- X1586 - V bus cable coupling (Auto-Guide) (Item B4, C5)
- X1587 - Cable coupling, Y087 (Item B4, C5)
- Y070 [FKH] - Cut-off valve, front power lift enhanced control (Item EF1)
- Y071 [2.1] - Auxiliary control valve (olive) (Item EF2)
- Y072 [2.2] - Auxiliary control valve (grey) (Item EF3)
- Y074 [1.1] - Auxiliary control valve (yellow) (Item D6)
- Y075 [1.2] - Auxiliary control valve (blue) (Item D5)
- Y076 [1.3] - Auxiliary control valve (red) (Item D 4/5)
- Y077 [HKH] - Cut-off valve, rear EPC (Item D4)
- Y078 [1.4] - Auxiliary control valve (green) (Item D7)
- Y079 [1.5] - Auxiliary control valve (brown) (Item D7)
- Y080 [1.6] - Auxiliary control valve (violet) (Item D8)
- Y087 - Steering valve block, Auto-Guide (Item B6)

NOTE: *Wiring diagram shows the maximum number of fittings.*

For tractors with **standard front power lift and without auxiliary control units**, the following components are missing:

- Y070 [FKH] - Cut-off valve, front power lift enhanced control (Item EF1)
- Y071 [2.1] - Auxiliary control valve (olive) (Item EF2)
- Y072 [2.2] - Auxiliary control valve (grey) (Item EF3)

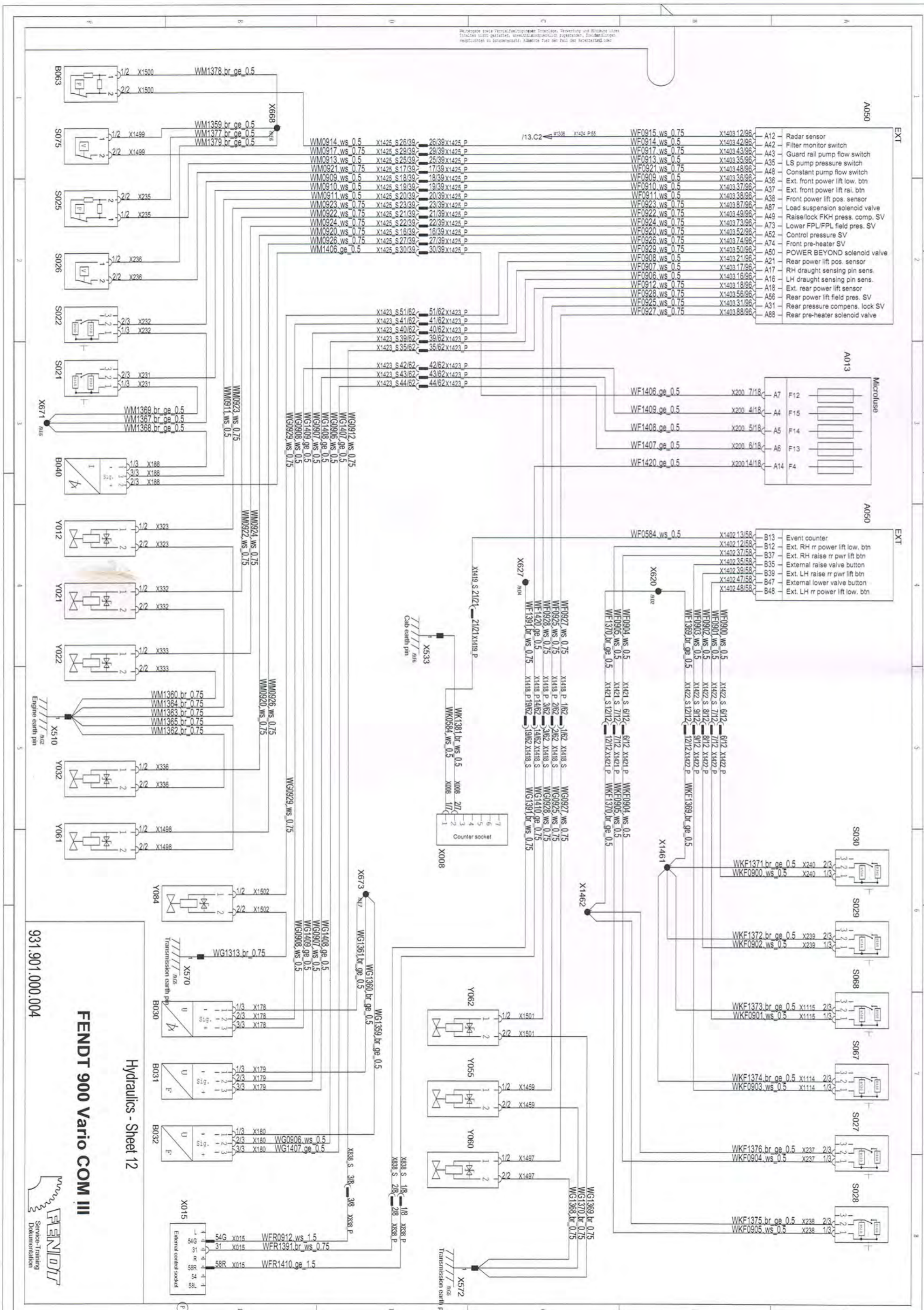
The valve bus is then closed using bridge connector H931.901.042.300 with **separation points X1470 and X1477**

For tractors **without Y087 - Steering valve block, Auto-Guide**, separation point X1586_S (Item B4) is connected to separation point X1586_P (Item C5).

The following components are missing:

- Y087 - Steering valve block, Auto-Guide (Item B6) along with the corresponding wiring.

Alle Angaben sind Vertragsbestandteile. Änderungen sind vorbehalten. Die Zeichnung ist Eigentum der Fendt AG. Nachdruck ist ohne schriftliche Genehmigung der Fendt AG strafbar.



- A12 Radar sensor
- A42 Filter monitor switch
- A43 Guard rail pump flow switch
- A35 LS pump pressure switch
- A48 Constant pump flow switch
- A36 Ext. front power lift low. btn
- A37 Ext. front power lift rais. btn
- A38 Front power lift pos. sensor
- A87 Load suspension solenoid valve
- A49 Raise/lock FKH press. comp. SV
- A73 Lower FPL/FPL field pres. SV
- A52 Control pressure SV
- A74 Front pre-heater SV
- A50 POWER BEYOND solenoid valve
- A21 Rear power lift pos. sensor
- A17 RH draught sensing pin sens.
- A16 LH draught sensing pin sens.
- A18 Ext. rear power lift sensor
- A56 Rear power lift field pres. SV
- A31 Rear pressure compens. lock SV
- A88 Rear pre-heater solenoid valve

- A7 F12
- A4 F15
- A5 F14
- A6 F13
- A14 F4

- B13 Event counter
- B12 Ext. RH rr power lift low. btn
- B37 Ext. RH raise rr pwr lift btn
- B35 External raise valve button
- B39 Ext. LH raise rr pwr lift btn
- B47 External lower valve button
- B48 Ext. LH rr power lift low. btn

FENDT 900 Vario COM III

Hydraulics - Sheet 12

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12 Hydraulics/Auto-Guide - Sheet 13

- A011** - Radar sensor (Item F 3/4)
X510 - Earth pin, engine left (Item E3)
X513 - Earth pin, engine (Item D1)
X571 - Earth pin, transmission (Item D3)
X711 - Connector, V bus_High (Item B1)
X712 - Connector, V bus_Low (Item B1)
X1418 - Cable coupling, operator platform/transmission (Item B3)
X1423 - Cable coupling, operator platform/transmission (Item C2)
X1424 - Cable coupling, operator platform (Item C2)
X1440 - Fuse holder (Item A1-2)
X1491 - Rear V bus terminal (120 Ω) (Item E8)
X1586 - V bus cable coupling (Auto-Guide) (Item B4, C5)
X1587 - Cable coupling, Y087 (Item B4, C5)
Y070 [FKH] - Cut-off valve, front power lift enhanced control (Item EF1)
Y071 [2.1] - Auxiliary control valve (olive) (Item EF2)
Y072 [2.2] - Auxiliary control valve (grey) (Item EF3)
Y074 [1.1] - Auxiliary control valve (yellow) (Item D6)
Y075 [1.2] - Auxiliary control valve (blue) (Item D5)
Y076 [1.3] - Auxiliary control valve (red) (Item D 4/5)
Y077 [HKH] - Cut-off valve, rear EPC (Item D4)
Y078 [1.4] - Auxiliary control valve (green) (Item D7)
Y079 [1.5] - Auxiliary control valve (brown) (Item D7)
Y080 [1.6] - Auxiliary control valve (violet) (Item D8)
Y087 - Steering valve block, Auto-Guide (Item B6)

NOTE: Wiring diagram shows the maximum number of fittings.

For tractors with **standard front power lift and without auxiliary control units**, the following components are missing:

- Y070 [FKH]** - Cut-off valve, front power lift enhanced control (Item EF1)
Y071 [2.1] - Auxiliary control valve (olive) (Item EF2)
Y072 [2.2] - Auxiliary control valve (grey) (Item EF3)

The valve bus is then closed using bridge connector H931.901.042.300 with **separation points X1470 and X1477**

For tractors **without Y087 - Steering valve block, Auto-Guide**, separation point X1586_S (Item B4) is connected to separation point X1586_P (Item C5).

The following components are missing:

- Y087** - Steering valve block, Auto-Guide (Item B6)
 along with the corresponding wiring.

13 Suspension/Auto-Guide - Sheet 14

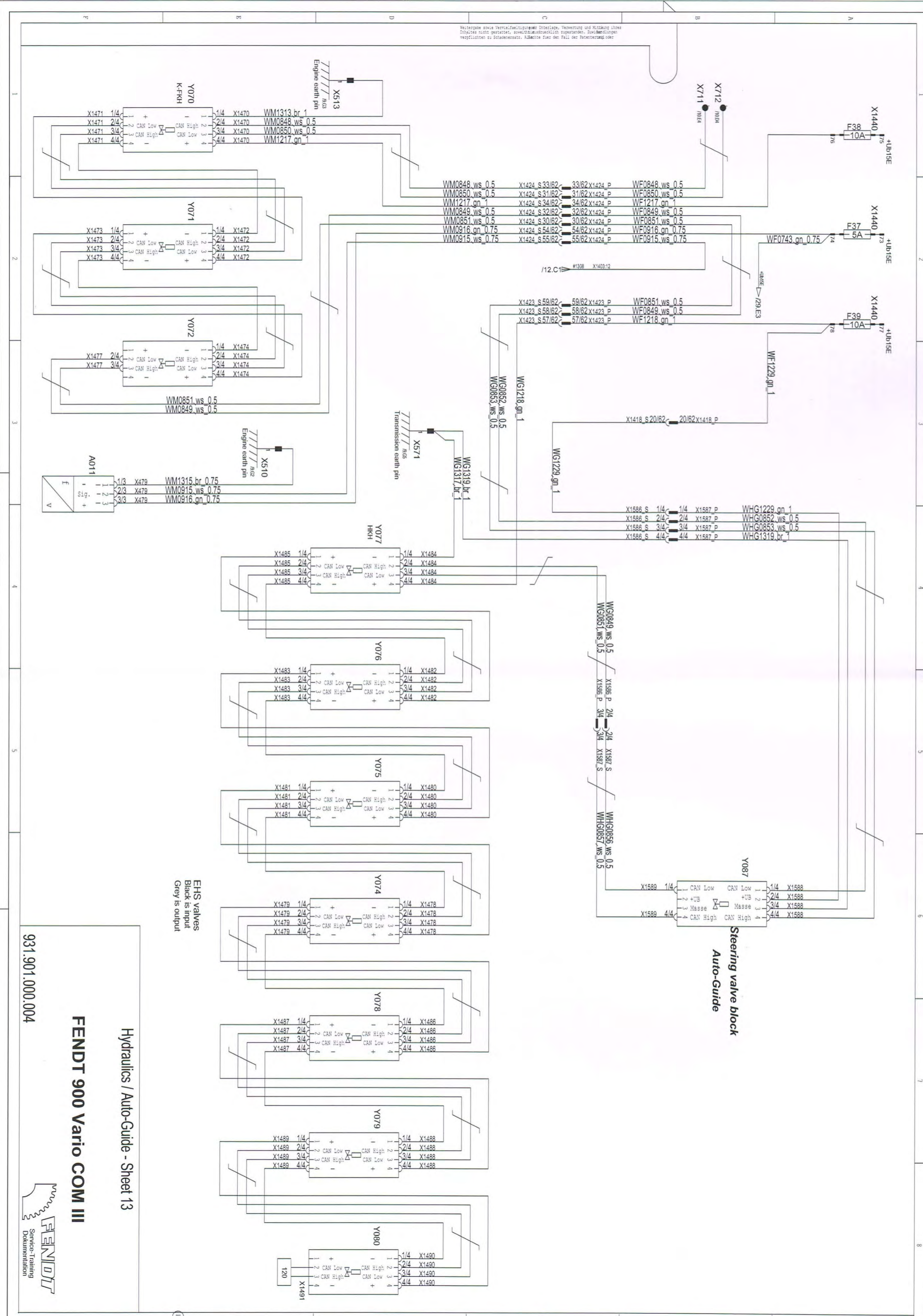
- A013** - PCB, microfuses (Item A2, A3)
A050 - ECU, basic control unit (Item A2, A6)
B066 - Sensor, wheel position (left) (Item F5)
B067 - Sensor, steering angle (Item F5)
B068 - Sensor, wheel position (right) (Item F4)
B081 - Steering wheel sensor (360°) (Item D2)
X511 - Earth pin, engine (Item EF4)
X572 - Earth pin, transmission (Item E7)
X620 - Connector, sensor system earth (Item C2)
X669 - Connector, sensor system earth (Item E5)
X1418 - Cable coupling, operator platform/transmission (Item C6)
X1424 - Cable coupling, operator platform (Item D 3-4)
Y063 - Wobble stabiliser solenoid valve (Item F2)
Y064 - Suspension load pressure/lowering solenoid valve (Item F2)
Y065 - Raise suspension solenoid valve (Item F3)
Y067 - Lock suspension solenoid valve (Item F3)
Y082 - Solenoid valve, lower link stabiliser, lock (Item E6)
Y083 - Solenoid valve, lower link stabiliser, release (Item E6)
Y085 - Pilot pressure/switch-off solenoid valve (Auto-Guide) (Item E7)
Y086 - Solenoid valve, steering disconnect (Auto-Guide) (Item E8)

NOTE: For safety-related circuits, not only is the positive side connected via the **A050** - ECU, basic control unit but the negative side is too.

The positive side is called *_High* in the E-box.

The negative side is called *_Low* in the E-box.

Wichtigste sowie Vertriebsunterlagen: Schaltpläne, Terminierung und Montage eines Schaltplans nicht gestattet, soweit nicht ausdrücklich angegeben. Zustimmungen verpflichten zu Schadensersatz. Alle Rechte für den Fall der Patentierung oder



EHS valves
Black is input
Grey is output

Steering valve block
Auto-Guide

Hydraulics / Auto-Guide - Sheet 13
FENDT 900 Vario COM III

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13 Suspension/Auto-Guide - Sheet 14

- A013** - PCB, microfuses (Item A2, A3)
A050 - ECU, basic control unit (Item A2, A6)
B066 - Sensor, wheel position (left) (Item F5)
B067 - Sensor, steering angle (Item F5)
B068 - Sensor, wheel position (right) (Item F4)
B081 - Steering wheel sensor (360°) (Item D2)
X511 - Earth pin, engine (Item EF4)
X572 - Earth pin, transmission (Item E7)
X620 - Connector, sensor system earth (Item C2)
X669 - Connector, sensor system earth (Item E5)
X1418 - Cable coupling, operator platform/transmission (Item C6)
X1424 - Cable coupling, operator platform (Item D 3-4)
Y063 - Wobble stabiliser solenoid valve (Item F2)
Y064 - Suspension load pressure/lowering solenoid valve (Item F2)
Y065 - Raise suspension solenoid valve (Item F3)
Y067 - Lock suspension solenoid valve (Item F3)
Y082 - Solenoid valve, lower link stabiliser, lock (Item E6)
Y083 - Solenoid valve, lower link stabiliser, release (Item E6)
Y085 - Pilot pressure/switch-off solenoid valve (Auto-Guide) (Item E7)
Y086 - Solenoid valve, steering disconnect (Auto-Guide) (Item E8)

NOTE: For safety-related circuits, not only is the positive side connected via the **A050** - ECU, basic control unit but the negative side is too.

The positive side is called *_High* in the E-box.

The negative side is called *_Low* in the E-box.

14 PTO - Sheet 15

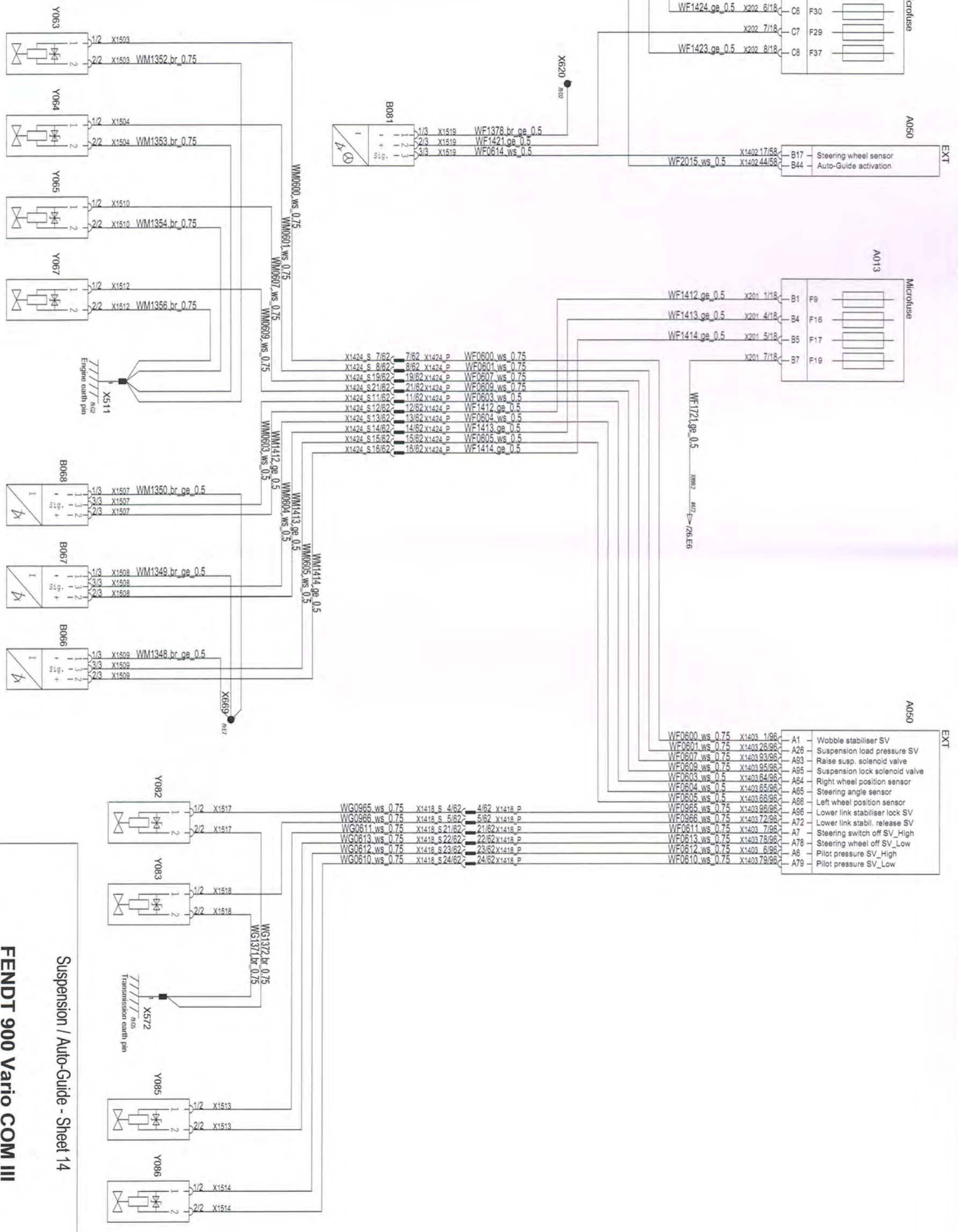
- A013** - PCB, microfuses (Item A 1-2)
A050 - ECU, basic control unit (Item A 2-3, A5)
B002 - Sensor, front PTO speed (Item E1)
B020 - Sensor, rear PTO speed (stub shaft) (Item E4)
B021 - Sensor, rear PTO speed (clutch) (Item E4)
S019 - Button, rear PTO, external left (item A 7/8)
S020 - Button, rear PTO, external right (Item A7)
X511 - Earth pin, engine (Item E2)
X570 - Earth pin, transmission (Item E6)
X631 - Connector, rear PTO LED ON (Item C5)
X669 - Connector, sensor system earth (Item D2)
X674 - Connector, sensor system earth (Item D3)
X1421 - Cable coupling, operator platform (Item B6)
X1422 - Cable coupling, mudguard (Item C6)
X1423 - Cable coupling, operator platform/transmission (Item CD4)
X1424 - Cable coupling, operator platform (Item CD1)
X1461 - Connector, sensor system earth (left mudguard) (Item C7)
X1462 - Connector, sensor system earth (right mudguard) (Item C7)
Y008 - Solenoid valve, rear PTO (clutch) (Item E5)
Y011 - Front PTO solenoid valve (clutch) (Item E2)
Y026 - Solenoid valve, rear PTO, stage I (Item E6)
Y027 - Solenoid valve, rear PTO, stage II (Item E5)

NOTE: The **Y026** - Solenoid valve, rear PTO, stage I (Item E6) can select the following PTO speeds:

- 540
- 540 E
- 1000 E

1000 E is available from chassis number 9XX/2X/3501 onwards on request.

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Suspension / Auto-Guide - Sheet 14

FENDT 900 Vario COM III

931.901.000.004



14 PTO - Sheet 15

- A013** - PCB, microfuses (Item A 1-2)
A050 - ECU, basic control unit (Item A 2-3, A5)
B002 - Sensor, front PTO speed (Item E1)
B020 - Sensor, rear PTO speed (stub shaft) (Item E4)
B021 - Sensor, rear PTO speed (clutch) (Item E4)
S019 - Button, rear PTO, external left (item A 7/8)
S020 - Button, rear PTO, external right (Item A7)
X511 - Earth pin, engine (Item E2)
X570 - Earth pin, transmission (Item E6)
X631 - Connector, rear PTO LED ON (Item C5)
X669 - Connector, sensor system earth (Item D2)
X674 - Connector, sensor system earth (Item D3)
X1421 - Cable coupling, operator platform (Item B6)
X1422 - Cable coupling, mudguard (Item C6)
X1423 - Cable coupling, operator platform/transmission (Item CD4)
X1424 - Cable coupling, operator platform (Item CD1)
X1461 - Connector, sensor system earth (left mudguard) (Item C7)
X1462 - Connector, sensor system earth (right mudguard) (Item C7)
Y008 - Solenoid valve, rear PTO (clutch) (Item E5)
Y011 - Front PTO solenoid valve (clutch) (Item E2)
Y026 - Solenoid valve, rear PTO, stage I (Item E6)
Y027 - Solenoid valve, rear PTO, stage II (Item E5)

NOTE: The **Y026** - Solenoid valve, rear PTO, stage I (Item E6) can select the following PTO speeds:

- 540
- 540 E
- 1000 E

1000 E is available from chassis number 9XX/2X/3501 onwards on request.

15 Trailer brake - Sheet 16

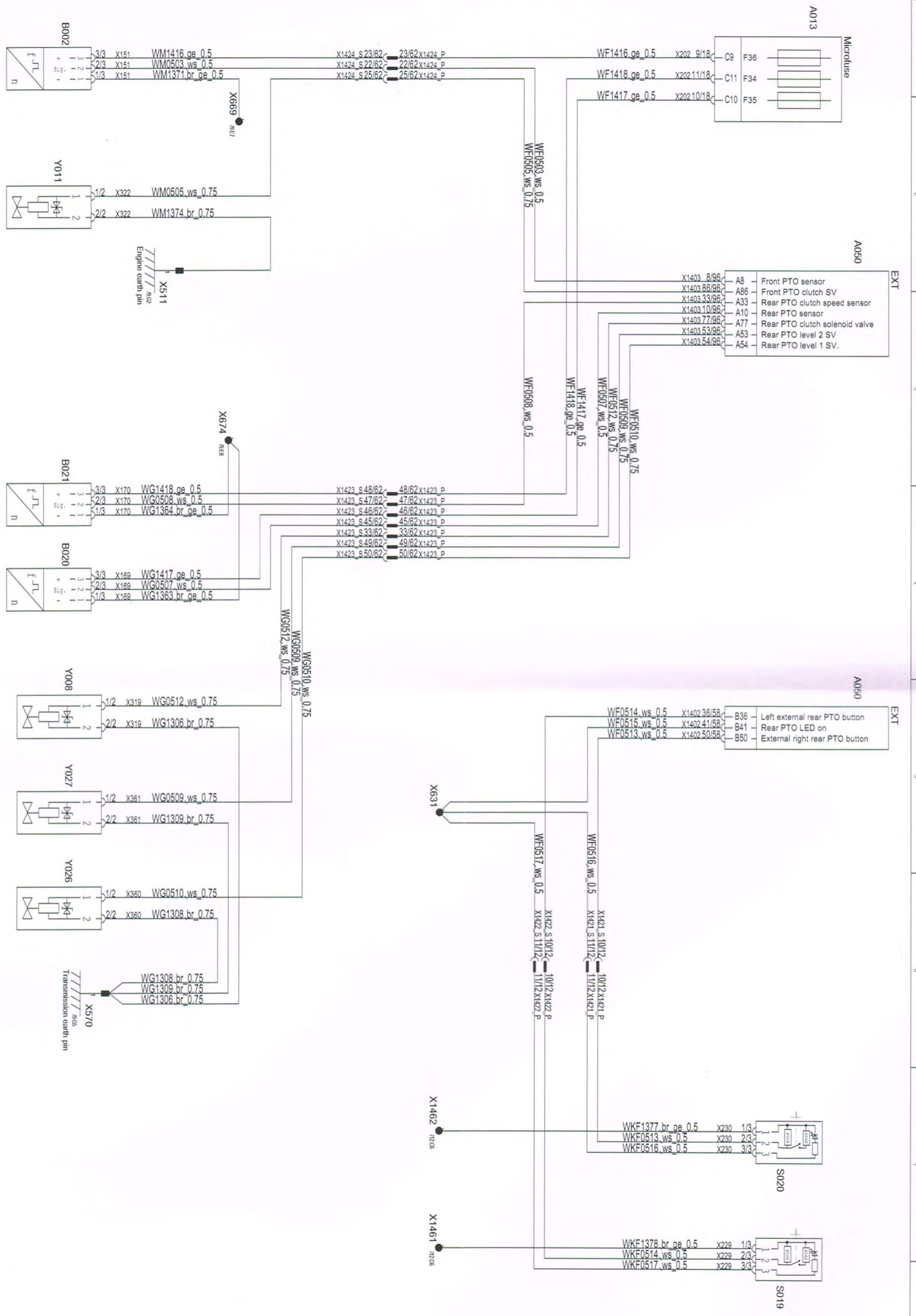
- A050** - ECU, basic control unit (Item A3, A4)
S086 - Switch, brake wearing, right (Item F 3/4)
S087 - Switch, brake wearing, left (Item F3)
X674 - Connector, sensor system earth (Item E4)
X1418 - Cable coupling, operator platform/transmission (Item D3)
X1424 - Cable coupling, operator platform (Item D2)
Y088 - Solenoid valve, release trailer brake (Item F2)

NOTE: For safety-related circuits, not only is the positive side connected via the **A050** - ECU, basic control unit but the negative side is too.

The positive side is called *_High* in the E-box.

The negative side is called *_Low* in the E-box.

Werkzeuge sowie Verbrauchsmaterialien. Die Haftung für Schäden an der Maschine ist dem Benutzer zu Lasten zu setzen. Die Haftung für Schäden an der Maschine ist dem Benutzer zu Lasten zu setzen.



PTO - Sheet 15

FENDT 900 Vario COM III

931.901.000.004



15 Trailer brake - Sheet 16

- A050** - ECU, basic control unit (Item A3, A4)
- S086** - Switch, brake wearing, right (Item F 3/4)
- S087** - Switch, brake wearing, left (Item F3)
- X674** - Connector, sensor system earth (Item E4)
- X1418** - Cable coupling, operator platform/transmission (Item D3)
- X1424** - Cable coupling, operator platform (Item D2)
- Y088** - Solenoid valve, release trailer brake (Item F2)

NOTE: For safety-related circuits, not only is the positive side connected via the **A050** - ECU, basic control unit but the negative side is too.

The positive side is called *_High* in the E-box.

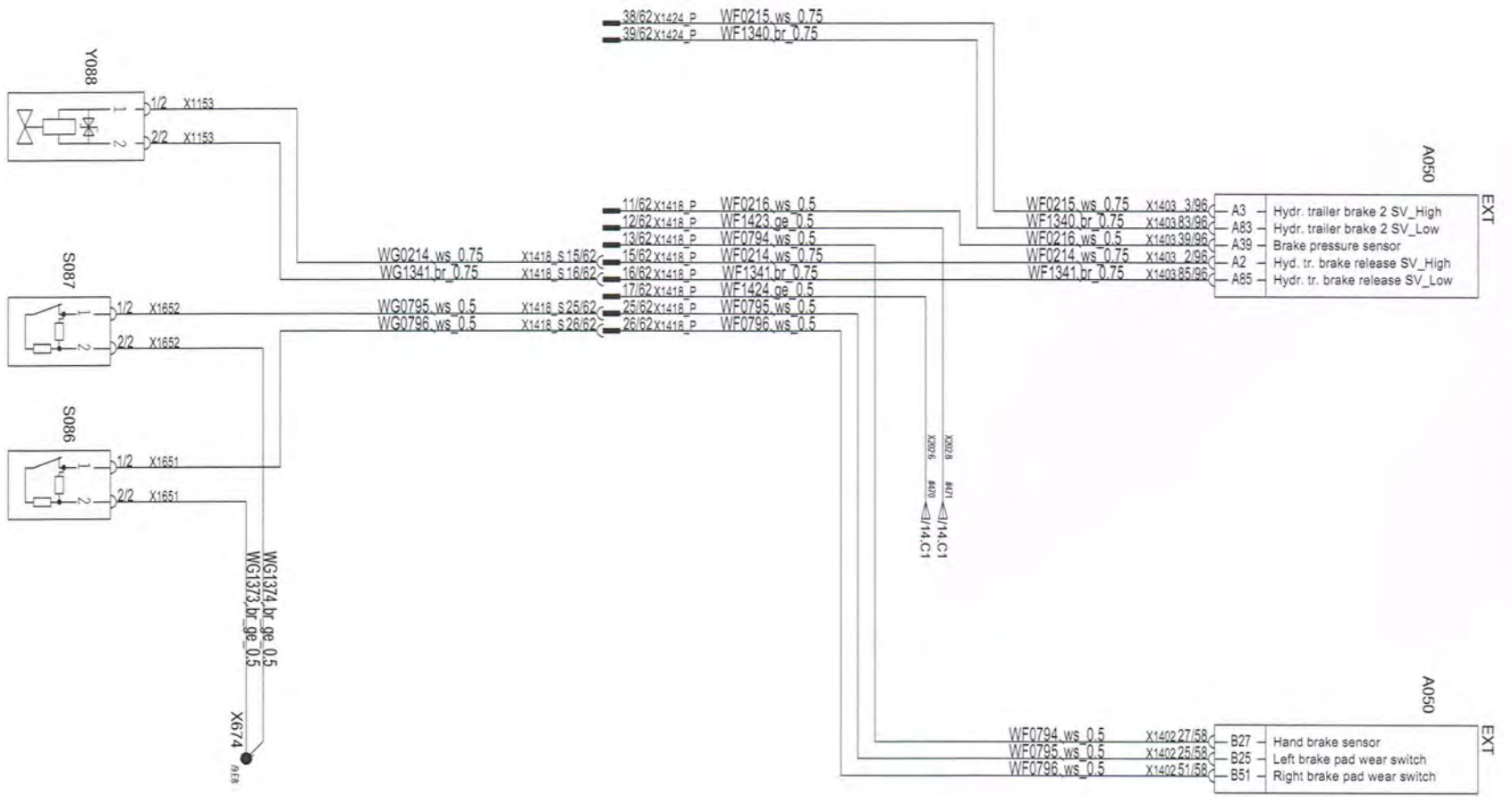
The negative side is called *_Low* in the E-box.

16 Instrument panel/ABS/driver seat - Sheet 17

- A007** - Instrument panel (Item A4, A 6/7)
- A036** - Control panel, dashboard right/left (Item A8)
- A039** - MFA, multifunction armrest (Item E 2/3)
- B013** - Sensor, hydraulic oil temperature (Item E6)
- B019** - Sensor, compressed air supply (Circuit II) (Item E7)
- B034** - Immersed tube sensor (fuel) (Item E6)
- B060** - Compressed air supply sensor (Circuit I) (Item E8)
- B084** - Sensor, hydraulic oil level (Item E7)
- G002** - Alternator 1 (Item E5)
- G004** - Alternator 2 (Item E5)
- H006** - Audio warning signal (Item D 3/4)
- S076** - Switch, clutch fluid (Item D3)
- X533** - Earth pin, cab body (Item F4)
- X551** - Earth pin, operator platform right (Item C2)
- X558** - Earth pin, transmission (Item E2)
- X596** - Connector, earth (X1048 socket, ABS) (Item E1)
- X635** - Connector, sensor system earth (instrument panel) (Item C7)
- X678** - Connector, sensor system earth (Item D7)
- X698** - Connector, sensor system earth (Item D8)
- X814** - Connector, +UB30 (X1048 socket, ABS) (Item E1)
- X837** - Separation point on X1048 socket, ABS (Item D1)
- X1048** - Socket ABS (Item F1)
- X1401** - Separation point on A039 (Item E 2/3)
- X1418** - Cable coupling, operator platform/transmission (Item C1, C8)
- X1419** - Cab cable coupling (Item D4)
- X1423** - Cable coupling, operator platform/transmission (Item C7)
- X1424** - Cable coupling, operator platform (Item CD6)
- X1440** - Fuse holder (Item A1, A2, A5)
- X1525** - Connector, sensor + UB (from instrument panel) (Item D7)
- X1565** - Connector, position light (Item B7)

NOTE: The wiring diagram shows **A039** - MFA, multifunction armrest (Item E 2/3) with the super deluxe seat wiring. Optional extra versions Fendt Evolution and Fendt Evolution Active are not shown.

Werkzeuge sind Herstellernormen zu verwenden, Verarbeitung und Montage sind
 nach den Angaben durchzuführen, ohne Rücksicht auf die Folgen. Die Hersteller
 sind für die Einhaltung der Angaben verantwortlich. Im Falle der Nichterfüllung
 der Angaben ist der Hersteller für die Folgen der Nichterfüllung verantwortlich.



A3	Hydr. trailer brake 2 SV_High
A83	Hydr. trailer brake 2 SV_Low
A39	Brake pressure sensor
A2	Hyd. tr. brake release SV_High
A85	Hydr. tr. brake release SV_Low

B27	Hand brake sensor
B25	Left brake pad wear switch
B51	Right brake pad wear switch

Trailer brake - Sheet 16

FENDT 900 Vario COM III

931.901.000.004

Service-Training
 Dokumentation

16 Instrument panel/ABS/driver seat - Sheet 17

- A007** - Instrument panel (Item A4, A 6/7)
- A036** - Control panel, dashboard right/left (Item A8)
- A039** - MFA, multifunction armrest (Item E 2/3)
- B013** - Sensor, hydraulic oil temperature (Item E6)
- B019** - Sensor, compressed air supply (Circuit II) (Item E7)
- B034** - Immersed tube sensor (fuel) (Item E6)
- B060** - Compressed air supply sensor (Circuit I) (Item E8)
- B084** - Sensor, hydraulic oil level (Item E7)
- G002** - Alternator 1 (Item E5)
- G004** - Alternator 2 (Item E5)
- H006** - Audio warning signal (Item D 3/4)
- S076** - Switch, clutch fluid (Item D3)
- X533** - Earth pin, cab body (Item F4)
- X551** - Earth pin, operator platform right (Item C2)
- X558** - Earth pin, transmission (Item E2)
- X596** - Connector, earth (X1048 socket, ABS) (Item E1)
- X635** - Connector, sensor system earth (instrument panel) (Item C7)
- X678** - Connector, sensor system earth (Item D7)
- X698** - Connector, sensor system earth (Item D8)
- X814** - Connector, +UB30 (X1048 socket, ABS) (Item E1)
- X837** - Separation point on X1048 socket, ABS (Item D1)
- X1048** - Socket ABS (Item F1)
- X1401** - Separation point on A039 (Item E 2/3)
- X1418** - Cable coupling, operator platform/transmission (Item C1, C8)
- X1419** - Cab cable coupling (Item D4)
- X1423** - Cable coupling, operator platform/transmission (Item C7)
- X1424** - Cable coupling, operator platform (Item CD6)
- X1440** - Fuse holder (Item A1, A2, A5)
- X1525** - Connector, sensor + UB (from instrument panel) (Item D7)
- X1565** - Connector, position light (Item B7)

NOTE: The wiring diagram shows **A039** - MFA, multifunction armrest (Item E 2/3) with the super deluxe seat wiring. Optional extra versions Fendt Evolution and Fendt Evolution Active are not shown.

17 STVZO/corner light/4th hydraulic circuit - Sheet 18

- A038** - ECU, central electrical system (Item A6)
- E003** - H4 additional headlight, right (Item B1)
- E004** - H4 additional headlight, left (Item C1)
- E066** - Brake and tail light left (Item D8)
- E067** - Brake and tail light right (Item C8)
- E074** - Work light, right (cornerlight) (Item CD1)
- E075** - Work light, left (cornerlight) (Item EF1)
- E098** - Drive headlight (main beam), right (Item D1)
- E099** - Drive headlight (dipped beam), right (Item D1)
- E100** - Drive headlight (main beam), left (Item E1)
- E101** - Drive headlight (dipped beam), left (Item E1)
- X015** - External control socket (Item F5)
- X018** - Rear socket (Item E7)
- X520** - Earth pin, oil sump right (Item F3)
- X532** - Earth pin, cab body (Item C 2/3)
- X572** - Earth pin, transmission (Item E4)
- X598** - Connector, K bus_High (Item C8)
- X599** - Connector, K bus_Low (Item C8)
- X650** - Connector, headlight 56b (dipped beam) (Item C6)
- X651** - Connector, headlight 56a (main beam) (Item C6)
- X657** - Connector, auxiliary lighting 56a (main beam) (Item B 5)
- X658** - Connector, auxiliary lighting 56b (dipped beam) (Item B 5)
- X659** - Connector, work light (cornerlight) (Item C5)
- X661** - Connector, electronics earth (Item C8)
- X766** - Connector, air conditioning earth (Item BC8)
- X838** - Separation point on X015 socket, external control (Item E5)
- X899** - Connector, earth (Item EF 3/4)
- X918** - Separation point on E066 (Item D8)
- X919** - Separation point on E067 (Item C8)
- X1417** - Cable coupling, operator platform/cab (Item B3)
- X1418** - Cable coupling, operator platform/transmission (Item D7)
- X1421** - Cable coupling, operator platform (Item CD7)
- X1422** - Cable coupling, mudguard (Item D7)
- X1423** - Cable coupling, operator platform/transmission (Item D6)
- X1425** - Cable coupling, operator platform (Item D5)
- X1436** - Cable coupling, tractor bonnet (drive light, cornerlight) (Item DE3)
- X1440** - Fuse holder (Item A 4-5)
- X1578** - Connector, + UB 15 (Item B8)

NOTE: The following components are also optionally available as LED tail lights:

E066 - Brake and tail light left (Item D8)

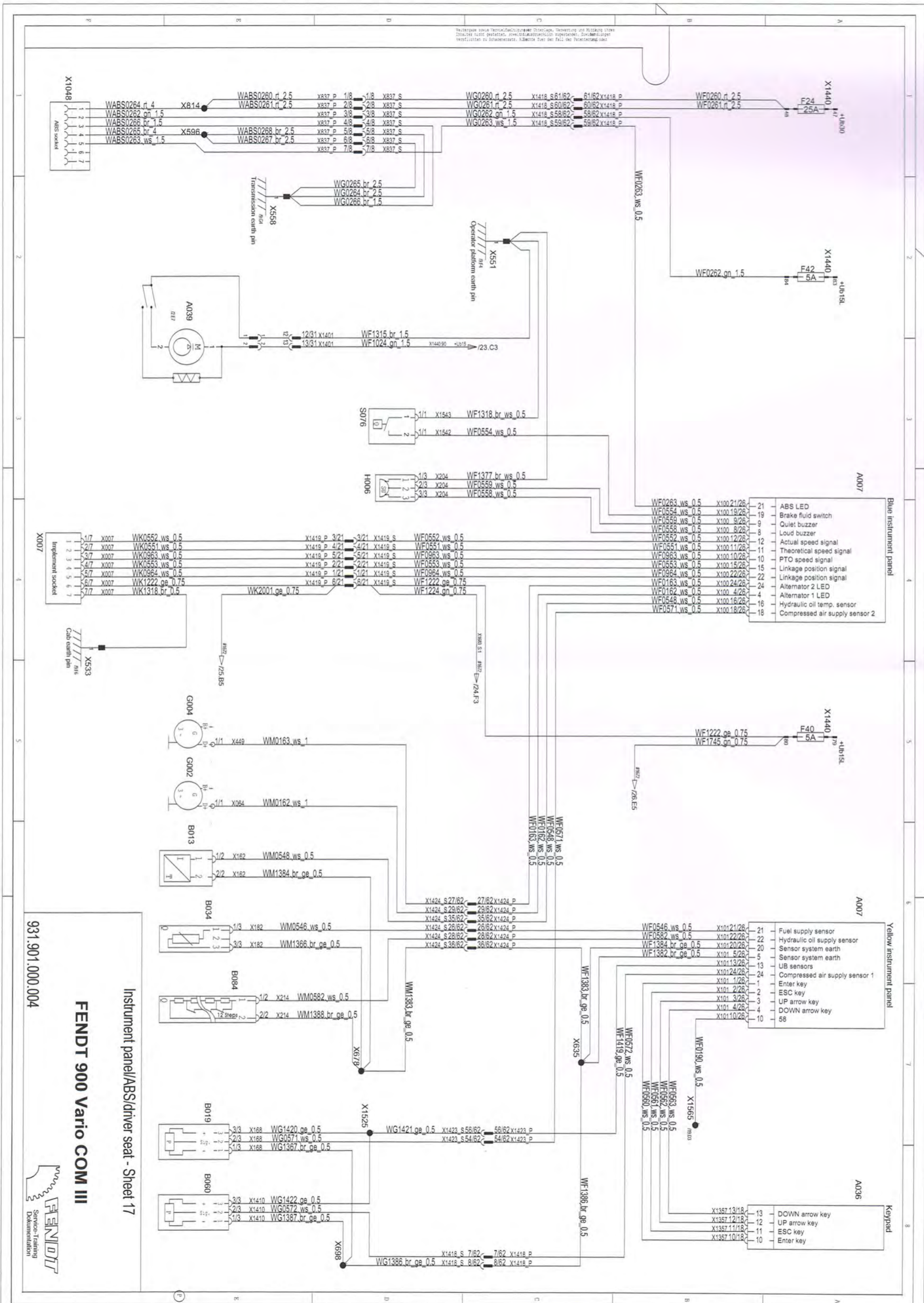
E067 - Brake and tail light right (Item C8)

In this case, components:

A075 - ECU, tail light LED, right

A076 - ECU, tail light LED, left must be fitted. See Sheet 28.

Wichtigste sind die Verdrahtungsregeln, die Überlagerung, die Umverteilung und die Rückführung über
 Zentrale sind die Verdrahtungsregeln, die Überlagerung, die Umverteilung und die Rückführung über
 verpflichtet zu Schweißarbeiten, können aber bei der Fall der Reparatur sind



Instrument panel/ABS/driver seat - Sheet 17

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17 STVZO/corner light/4th hydraulic circuit - Sheet 18

A038 - ECU, central electrical system (Item A6)
E003 - H4 additional headlight, right (Item B1)
E004 - H4 additional headlight, left (Item C1)
E066 - Brake and tail light left (Item D8)
E067 - Brake and tail light right (Item C8)
E074 - Work light, right (cornerlight) (Item CD1)
E075 - Work light, left (cornerlight) (Item EF1)
E098 - Drive headlight (main beam), right (Item D1)
E099 - Drive headlight (dipped beam), right (Item D1)
E100 - Drive headlight (main beam), left (Item E1)
E101 - Drive headlight (dipped beam), left (Item E1)
X015 - External control socket (Item F5)
X018 - Rear socket (Item E7)
X520 - Earth pin, oil sump right (Item F3)
X532 - Earth pin, cab body (Item C 2/3)
X572 - Earth pin, transmission (Item E4)
X598 - Connector, K bus_High (Item C8)
X599 - Connector, K bus_Low (Item C8)
X650 - Connector, headlight 56b (dipped beam) (Item C6)
X651 - Connector, headlight 56a (main beam) (Item C6)
X657 - Connector, auxiliary lighting 56a (main beam) (Item B 5)
X658 - Connector, auxiliary lighting 56b (dipped beam) (Item B 5)
X659 - Connector, work light (cornerlight) (Item C5)
X661 - Connector, electronics earth (Item C8)
X766 - Connector, air conditioning earth (Item BC8)
X838 - Separation point on X015 socket, external control (Item E5)
X899 - Connector, earth (Item EF 3/4)
X918 - Separation point on E066 (Item D8)
X919 - Separation point on E067 (Item C8)
X1417 - Cable coupling, operator platform/cab (Item B3)
X1418 - Cable coupling, operator platform/transmission (Item D7)
X1421 - Cable coupling, operator platform (Item CD7)
X1422 - Cable coupling, mudguard (Item D7)
X1423 - Cable coupling, operator platform/transmission (Item D6)
X1425 - Cable coupling, operator platform (Item D5)
X1436 - Cable coupling, tractor bonnet (drive light, cornerlight) (Item DE3)
X1440 - Fuse holder (Item A 4-5)
X1578 - Connector, + UB 15 (Item B8)

NOTE: The following components are also optionally available as LED tail lights:

E066 - Brake and tail light left (Item D8)
E067 - Brake and tail light right (Item C8)

In this case, components:

A075 - ECU, tail light LED, right
A076 - ECU, tail light LED, left must be fitted. See Sheet 28.

18 STVZO/work light/reversing system - Sheet 19

A038 - ECU, central electrical system (Item A 5-6)
E009 - Licence plate lighting, right (Item B1)
E010 - Licence plate lighting, left (Item BC1)
E019 - Lighting, cab (Item A2)
E020 - Lighting (EPC) (Item B1)
E023 - Rear window heater (Item C2)
E054 - Wide vehicle marker lights, right (Item C8)
E055 - Wide vehicle marker lights, left (Item C8)
E066 - Brake and tail light left (Item D8)
E067 - Brake and tail light right (Item DE8)
E070 - Work lights, front right roof, external (Item D1)
E071 - Work lights, front left roof, external (Item E1)
E086 - Side lamp, front right (Item D1)
E087 - Side lamp, front left (Item E1)
E116 - Work lights, Xenon front right roof, external (Item F1)
E117 - Work lights, Xenon front left roof, external (Item F1)
S032 - Switch, left door contact (Item CD 1/2)
S085 - Switch, reverse operation (RÜFA) actuation (Item E 6/7)
X017 - Front socket (Item F4)
X018 - Rear socket (Item F 4/5)
X513 - Earth pin, engine (Item EF4)
X532 - Earth pin, cab body (Item EF3)
X533 - Earth pin, cab body (Item C1)
X534 - Earth pin, cab body (Item BC3)
X551 - Earth pin, operator platform right (Item D7, E3)
X554 - Earth pin, operator platform (Item CD7)
X570 - Earth pin, transmission (Item EF5)
X574 - Earth pin, transmission (Item E6)
X661 - Connector, electronics earth (Item BC7)
X694 - Connector, +UB 30 (A038) (Item BC7)
X760 - Connector, signal (raise suspension) (Item DE7)
X761 - Connector, signal (lower suspension) (Item D7)
X834 - Separation point on E070 (Item D2)
X835 - Separation point on E071 (Item E2)
X836 - Separation point on E0116 / E117 (Item F 2/3)
X896 - Separation point on E054 (Item C 7/8)
X897 - Separation point on E055 (Item C 7/8)
X918 - Separation point on E066 (Item D8)
X919 - Separation point on E067 (Item DE8)
X1417 - Cable coupling, operator platform/cab (Item B 3/4)
X1418 - Cable coupling, operator platform/transmission (Item CD5)
X1420 - Cab cable coupling (Item B3, C3)
X1421 - Cable coupling, operator platform (Item D6)
X1422 - Cable coupling, mudguard (Item D6)
X1424 - Cable coupling, operator platform (Item CD5)
X1440 - Fuse holder (Item A3, A4; A7)
X1565 - Connector, position light (Item D3)
X1600 - Cable coupling, to rear work lights (roof) (Item E2)
X1624 - Cable coupling to front position lights (Item DE2)
X1802 - Separation point on E116 / E117 (Item F2)
Y093 - Solenoid valve, reverse operation (RÜFA), rotate to right (Item F5)

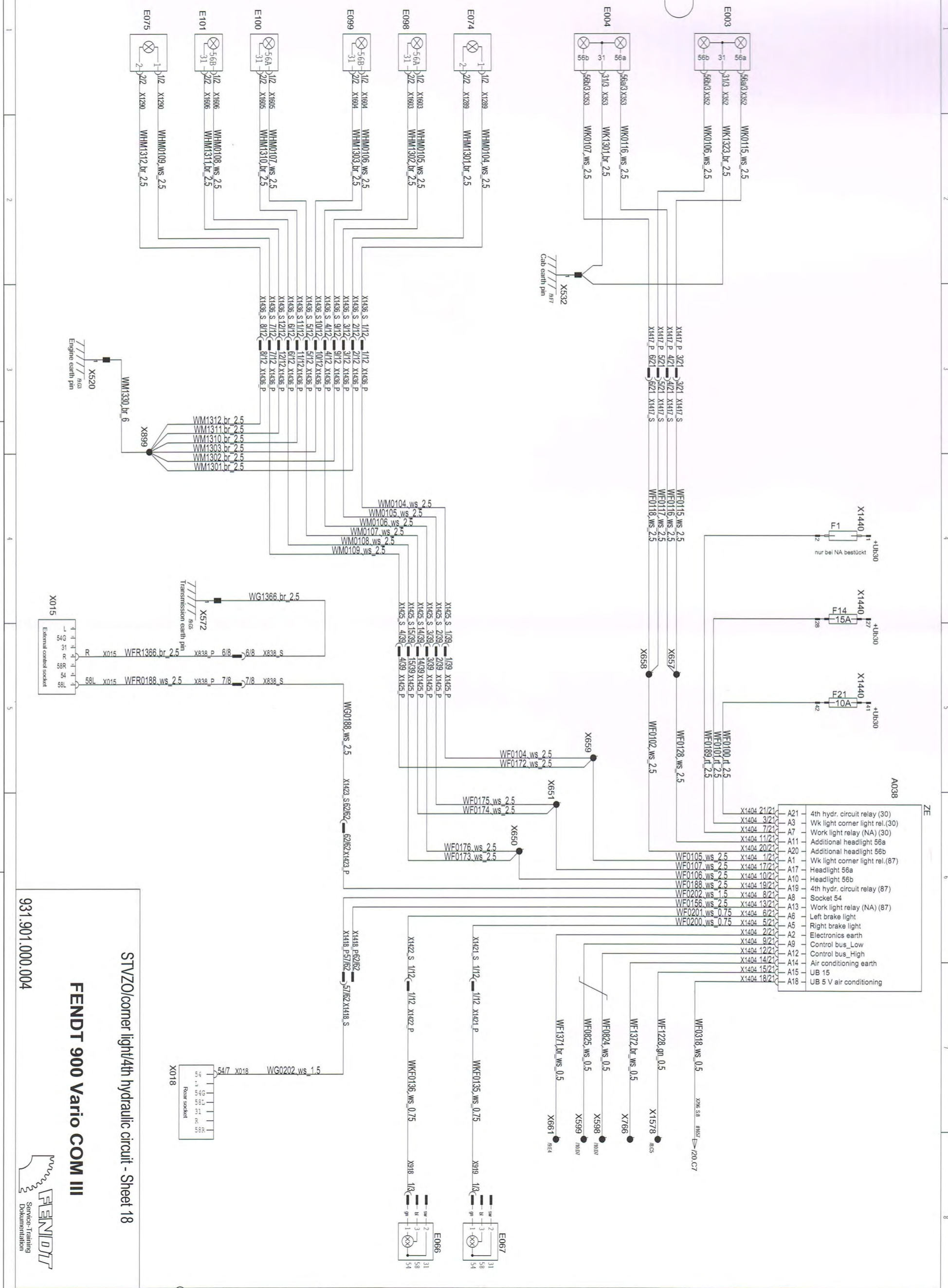
NOTE: The following components are also optionally available as LED tail lights:

E066 - Brake and tail light left (Item D8)
E067 - Brake and tail light right (Item C8)

In this case, components:

A075 - ECU, tail light LED, right
A076 - ECU, tail light LED, left must be fitted. See Sheet 28.

Werkzeuge sowie Verbrauchsmaterialien (Unterlegscheiben, Unterlegscheiben, Unterlegscheiben, Unterlegscheiben) sind nicht gesondert anzugeben. Die Montageanleitung ist Bestandteil der Montageanleitung. Die Montageanleitung ist Bestandteil der Montageanleitung. Die Montageanleitung ist Bestandteil der Montageanleitung.



A21	4th hydr. circuit relay (30)
A3	Wk light corner light rel.(30)
A7	Work light relay (NA) (30)
A11	Additional headlight 56a
A20	Additional headlight 56b
A1	Wk light corner light rel.(87)
A17	Headlight 56a
A10	Headlight 56b
A19	4th hydr. circuit relay (87)
A8	Socket 54
A13	Work light relay (NA) (87)
A6	Left brake light
A5	Right brake light
A2	Electronics earth
A9	Control bus_Low
A12	Control bus_High
A14	Air conditioning earth
A15	UB 15
A18	UB 5 V air conditioning

STVZO/corner light/4th hydraulic circuit - Sheet 18

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18 STVZO/work light/reversing system - Sheet 19

- A038** - ECU, central electrical system (Item A 5-6)
E009 - Licence plate lighting, right (Item B1)
E010 - Licence plate lighting, left (Item BC1)
E019 - Lighting, cab (Item A2)
E020 - Lighting (EPC) (Item B1)
E023 - Rear window heater (Item C2)
E054 - Wide vehicle marker lights, right (Item C8)
E055 - Wide vehicle marker lights, left (Item C8)
E066 - Brake and tail light left (Item D8)
E067 - Brake and tail light right (Item DE8)
E070 - Work lights, front right roof, external (Item D1)
E071 - Work lights, front left roof, external (Item E1)
E086 - Side lamp, front right (Item D1)
E087 - Side lamp, front left (Item E1)
E116 - Work lights, Xenon front right roof, external (Item F1)
E117 - Work lights, Xenon front left roof, external (Item F1)
S032 - Switch, left door contact (Item CD 1/2)
S085 - Switch, reverse operation (RÜFA) actuation (Item E 6/7)
X017 - Front socket (Item F4)
X018 - Rear socket (Item F 4/5)
X513 - Earth pin, engine (Item EF4)
X532 - Earth pin, cab body (Item EF3)
X533 - Earth pin, cab body (Item C1)
X534 - Earth pin, cab body (Item BC3)
X551 - Earth pin, operator platform right (Item D7, E3)
X554 - Earth pin, operator platform (Item CD7)
X570 - Earth pin, transmission (Item EF5)
X574 - Earth pin, transmission (Item E6)
X661 - Connector, electronics earth (Item BC7)
X694 - Connector, +UB 30 (A038) (Item BC7)
X760 - Connector, signal (raise suspension) (Item DE7)
X761 - Connector, signal (lower suspension) (Item D7)
X834 - Separation point on E070 (Item D2)
X835 - Separation point on E071 (Item E2)
X836 - Separation point on E0116 / E117 (Item F 2/3)
X896 - Separation point on E054 (Item C 7/8)
X897 - Separation point on E055 (Item C 7/8)
X918 - Separation point on E066 (Item D8)
X919 - Separation point on E067 (Item DE8)
X1417 - Cable coupling, operator platform/cab (Item B 3/4)
X1418 - Cable coupling, operator platform/transmission (Item CD5)
X1420 - Cab cable coupling (Item B3, C3)
X1421 - Cable coupling, operator platform (Item D6)
X1422 - Cable coupling, mudguard (Item D6)
X1424 - Cable coupling, operator platform (Item CD5)
X1440 - Fuse holder (Item A3, A4; A7)
X1565 - Connector, position light (Item D3)
X1600 - Cable coupling, to rear work lights (roof) (Item E2)
X1624 - Cable coupling to front position lights (Item DE2)
X1802 - Separation point on E116 / E117 (Item F2)
Y093 - Solenoid valve, reverse operation (RÜFA), rotate to right (Item F5)

NOTE: The following components are also optionally available as LED tail lights:

E066 - Brake and tail light left (Item D8)

E067 - Brake and tail light right (Item C8)

In this case, components:

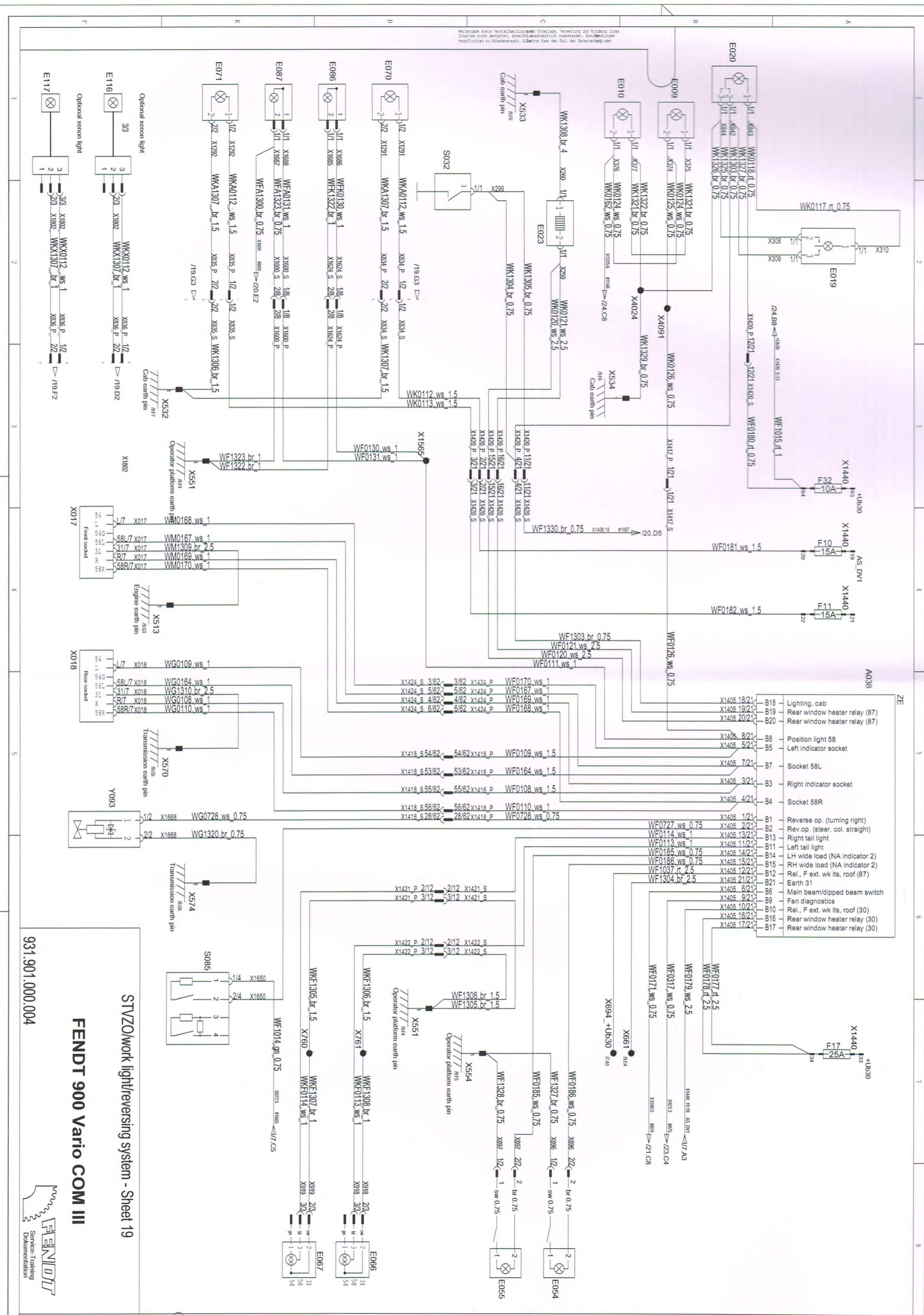
A075 - ECU, tail light LED, right

A076 - ECU, tail light LED, left must be fitted. See Sheet 28.

19 STVZO/work light/air conditioning - Sheet 20

- A038** - ECU, central electrical system (Item A 5-6)
A053 - ECU, air conditioning control (Item E6)
B071 - Sensor, output temperature (Item E7)
B073 - Sensor, solar (irradiation) (Item E8)
B074 - Sensor, internal temperature (Item E5)
B076 - Sensor, external temperature (Item E7)
E050 - Work lights, front left roof, internal (Item D1)
E051 - Work lights, front right roof, internal (Item C1)
E088 - Direction direction indicator, front right (Item C1)
E089 - Direction direction indicator, front left (Item E1)
E108 - Work light, right A pillar (optional Xenon) (Item C1)
E109 - Work light, left A pillar (optional Xenon) (Item E1)
X532 - Earth pin, cab body (Item CD3)
X552 - Earth pin, operator platform (Item F4)
X694 - Connector, +UB 30 (A038) (Item BC4)
X766 - Connector, air conditioning earth (Item BC 6/7)
X796 - Cable coupling (M002) (Item CD8)
X1420 - Cab cable coupling (Item CD4)
X1424 - Cable coupling, operator platform (Item CD7)
X1440 - Fuse holder (Item A3; A4; A7)
X1538 - Separation point on B076 (Item E7)
X1600 - Cable coupling, to rear work lights (roof) (Item E3)
X1624 - Cable coupling to front position lights (Item C 2/3)
X1678 - Connector, front work light (Item D5)
X1681 - Cable coupling, E051 (Item D2)
X1682 - Cable coupling, E050 (Item D2)

Wiedergabe sowie Herstell-/Leistungsmenge, Überlastung, Verwertung und Nutzung dieses Zeichens sind gestattet, soweit es ausschließlich zum Zweck der Montage von Ersatzteilen und zur Identifizierung von Bauteilen durch den Fall der Bauteilnummer dient.



STVZO/work light/reversing system - Sheet 19

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19 STVZO/work light/air conditioning - Sheet 20

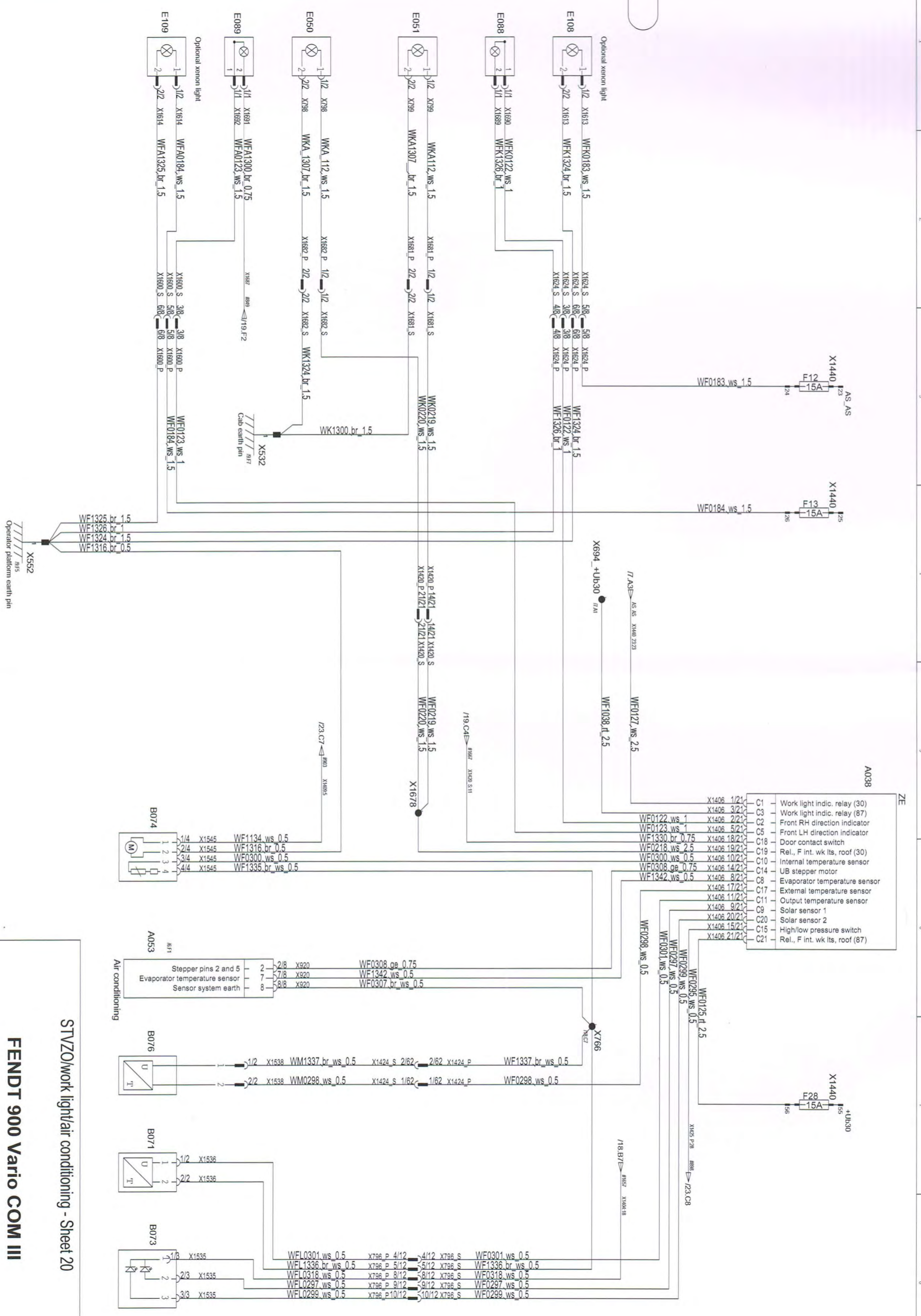
A038 - ECU, central electrical system (Item A 5-6)
A053 - ECU, air conditioning control (Item E6)
B071 - Sensor, output temperature (Item E7)
B073 - Sensor, solar (irradiation) (Item E8)
B074 - Sensor, internal temperature (Item E5)
B076 - Sensor, external temperature (Item E7)
E050 - Work lights, front left roof, internal (Item D1)
E051 - Work lights, front right roof, internal (Item C1)
E088 - Direction direction indicator, front right (Item C1)
E089 - Direction direction indicator, front left (Item E1)
E108 - Work light, right A pillar (optional Xenon) (Item C1)
E109 - Work light, left A pillar (optional Xenon) (Item E1)
X532 - Earth pin, cab body (Item CD3)
X552 - Earth pin, operator platform (Item F4)
X694 - Connector, +UB 30 (A038) (Item BC4)
X766 - Connector, air conditioning earth (Item BC 6/7)
X796 - Cable coupling (M002) (Item CD8)
X1420 - Cab cable coupling (Item CD4)
X1424 - Cable coupling, operator platform (Item CD7)
X1440 - Fuse holder (Item A3; A4; A7)
X1538 - Separation point on B076 (Item E7)
X1600 - Cable coupling, to rear work lights (roof) (Item E3)
X1624 - Cable coupling to front position lights (Item C 2/3)
X1678 - Connector, front work light (Item D5)
X1681 - Cable coupling, E051 (Item D2)
X1682 - Cable coupling, E050 (Item D2)

20 Wipers/work light - Sheet 21

A038 - ECU, central electrical system (Item A 4-5)
E021 - Rotating beacon, right (Item F2)
E022 - Rotating beacon, left (Item F3)
E064 - Rear direction indicator, left (Item D1)
E065 - Rear direction indicator, right (Item C1)
E082 - Work light, rear right external (roof) (Item C1)
E085 - Work light, rear left external (roof) (Item DE1)
E130 - LED for rear direction indicator, left (Item D1)
E131 - LED for rear direction indicator, right (Item C1)
M002 - Front wiper motor (Item F 4/5)
M004 - Rear wiper motor (Item F 3/4)
S079 - Switch, steering column (Item DE7)
X258 - Separation point on M004 (Item E 3/4)
X345 - Separation point on E022 (Item E3)
X346 - Separation point on E021 (Item E2)
X347 - Separation point on M002 (Item E 4/5)
X532 - Earth pin, cab body (Item E2)
X534 - Earth pin, cab body (Item E3)
X552 - Earth pin, operator platform (Item D4)
X574 - Earth pin, transmission (Item E6)
X608 - Connector, + UB 15 (Item B3)
X694 - Connector, +UB 30 (A038) (Item B3)
X760 - Connector, signal (raise suspension) (Item C3)
X761 - Connector, signal (lower suspension) (Item D3)
X762 - Connector, pre-heater signal (Item C6)
X769 - Connector, signal (E021/E022) (Item E3)
X793 - Connector, signal (E082/E085) (Item D2)
X796 - Cable coupling (M002) (Item D 4/5)
X916 - Separation point on E064 (Item D1)
X917 - Separation point on E065 (Item C1)
X1418 - Cable coupling, operator platform/transmission (Item D5)
X1420 - Cab cable coupling (Item D 3/4)
X1421 - Cable coupling, operator platform (Item C3)
X1422 - Cable coupling, mudguard (Item C3)
X1440 - Fuse holder (Item A2, A6)
X1590 - Separation point on S079 (Item C 7/8)
X1591 - Separation point on S079 (Item C7)
Y092 - Solenoid valve, reverse operation (RÜFA), rotate to left (Item F5)

NOTE: If LED tail lights are fitted,
E130 - LED for rear direction indicator, left (Item D1)
E131 - LED for rear direction indicator, right (Item C1)
 the following components are also fitted:
A075 - ECU, tail light LED, right
A076 - ECU, tail light LED, left See Sheet 28.

Werkzeuge sowie Verriegelungsmechanismen, Schließung, Verwertung und Nutzung ihrer
 Funktionen durch geschultes Personal sind zwingend erforderlich. Die Hersteller
 verpflichten zu Schadensersatz. Achten Sie auf den Fall der Patentierung oder



STVZOwork light/air conditioning - Sheet 20

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20 Wipers/work light - Sheet 21

A038 - ECU, central electrical system (Item A 4-5)
E021 - Rotating beacon, right (Item F2)
E022 - Rotating beacon, left (Item F3)
E064 - Rear direction indicator, left (Item D1)
E065 - Rear direction indicator, right (Item C1)
E082 - Work light, rear right external (roof) (Item C1)
E085 - Work light, rear left external (roof) (Item DE1)
E130 - LED for rear direction indicator, left (Item D1)
E131 - LED for rear direction indicator, right (Item C1)
M002 - Front wiper motor (Item F 4/5)
M004 - Rear wiper motor (Item F 3/4)
S079 - Switch, steering column (Item DE7)
X258 - Separation point on M004 (Item E 3/4)
X345 - Separation point on E022 (Item E3)
X346 - Separation point on E021 (Item E2)
X347 - Separation point on M002 (Item E 4/5)
X532 - Earth pin, cab body (Item E2)
X534 - Earth pin, cab body (Item E3)
X552 - Earth pin, operator platform (Item D4)
X574 - Earth pin, transmission (Item E6)
X608 - Connector, + UB 15 (Item B3)
X694 - Connector, +UB 30 (A038) (Item B3)
X760 - Connector, signal (raise suspension) (Item C3)
X761 - Connector, signal (lower suspension) (Item D3)
X762 - Connector, pre-heater signal (Item C6)
X769 - Connector, signal (E021/E022) (Item E3)
X793 - Connector, signal (E082/E085) (Item D2)
X796 - Cable coupling (M002) (Item D 4/5)
X916 - Separation point on E064 (Item D1)
X917 - Separation point on E065 (Item C1)
X1418 - Cable coupling, operator platform/transmission (Item D5)
X1420 - Cab cable coupling (Item D 3/4)
X1421 - Cable coupling, operator platform (Item C3)
X1422 - Cable coupling, mudguard (Item C3)
X1440 - Fuse holder (Item A2, A6)
X1590 - Separation point on S079 (Item C 7/8)
X1591 - Separation point on S079 (Item C7)
Y092 - Solenoid valve, reverse operation (RÜFA), rotate to left (Item F5)

NOTE: If LED tail lights are fitted,

E130 - LED for rear direction indicator, left (Item D1)
E131 - LED for rear direction indicator, right (Item C1)

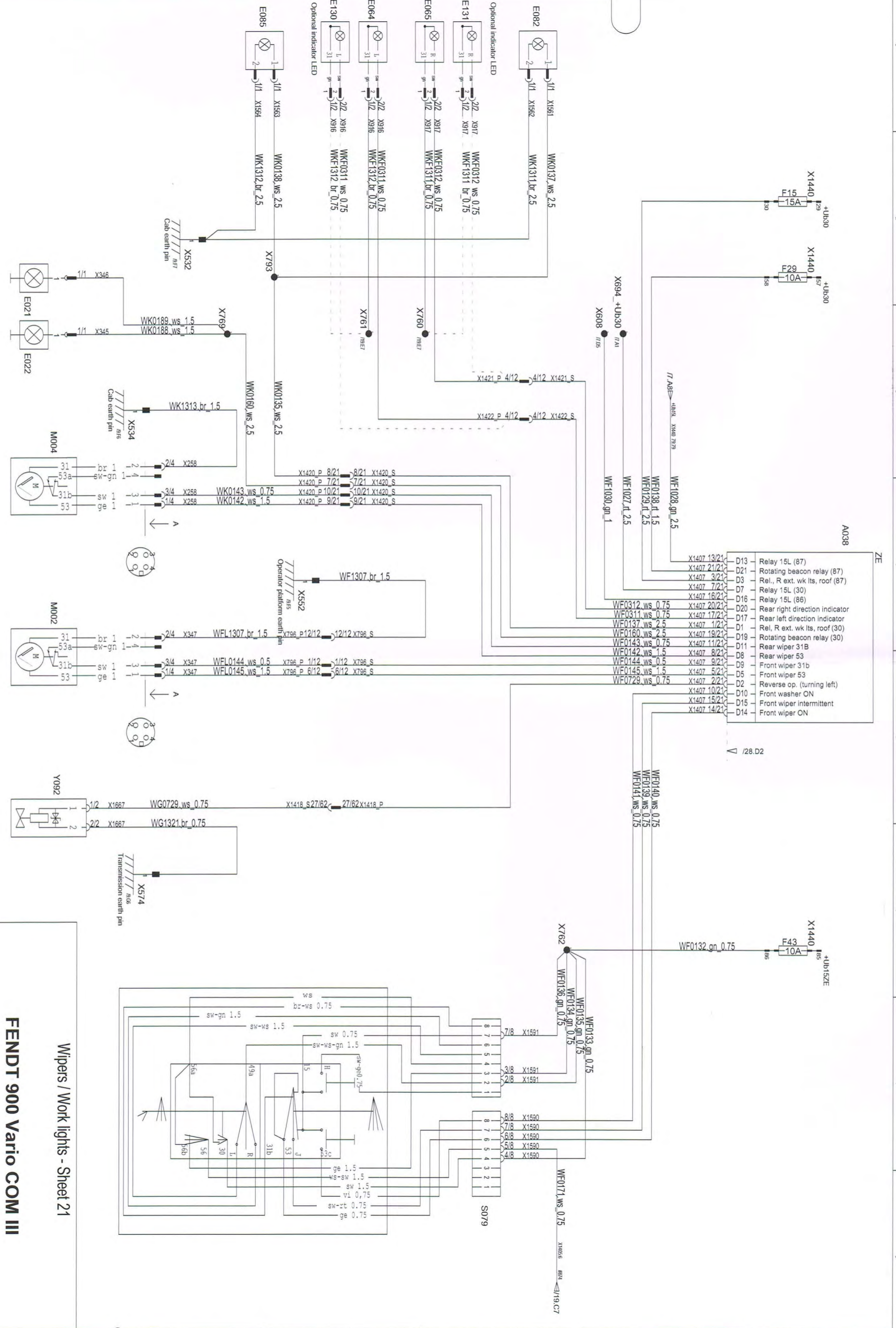
the following components are also fitted:

A075 - ECU, tail light LED, right
A076 - ECU, tail light LED, left See Sheet 28.

21 Work light/wipers/emergency mode - Sheet 22

A038 - ECU, central electrical system (Item A 4-5)
E078 - Work light, rear right mudguard (optional Xenon) (Item B8)
E079 - Work light, rear left mudguard (optional Xenon) (Item D8)
E083 - Work light, rear right internal (roof) (Item C8)
E084 - Work light, rear left internal (roof) (Item CD8)
H005 - Horn (Item E4)
M003 - Wiper pump, front (Item E6)
M005 - Wiper pump, rear (Item E5)
M010 - Fuel pump (Item E4)
S012 - Switch, starter lockout (Item CD 1)
S013 - Emergency mode button (Item CD 2)
S079 - Switch, steering column (Item. EF 2-3)
X513 - Earth pin, engine (Item F4)
X534 - Earth pin, cab body (Item D7)
X551 - Earth pin, operator platform right (Item D6)
X570 - Earth pin, transmission (Item E5)
X608 - Connector, + UB 15 (Item B6)
X694 - Connector, +UB 30 (A038) (Item BC6)
X760 - Connector, earth (Item B7)
X761 - Connector, earth (Item D7)
X789 - Connector, signal (E083/E084) (Item C7)
X1418 - Cable coupling, operator platform/transmission (Item D 4/5)
X1420 - Cab cable coupling (Item C6)
X1421 - Cable coupling, operator platform (Item B7)
X1422 - Cable coupling, mudguard (Item D7)
X1425 - Cable coupling, operator platform (Item D4)
X1440 - Fuse holder (Item A2, A3, A6, A7)
X1591 - Separation point on S079 (Item D2)
X1751 - Separation point, left frame earth point (Item C 5/6)
Y004 - Solenoid valve, turbo-clutch (Item F5)

Wichtige sowie Vermeidungsmittel, Verwertung und Nutzung über
 Inhaltlich nicht gestattet, sowie auszudrucken, kopieren, zu
 veröffentlichen zu Schaden. Achten Sie auf den Fall der Patentierung über



Wipers / Work lights - Sheet 21
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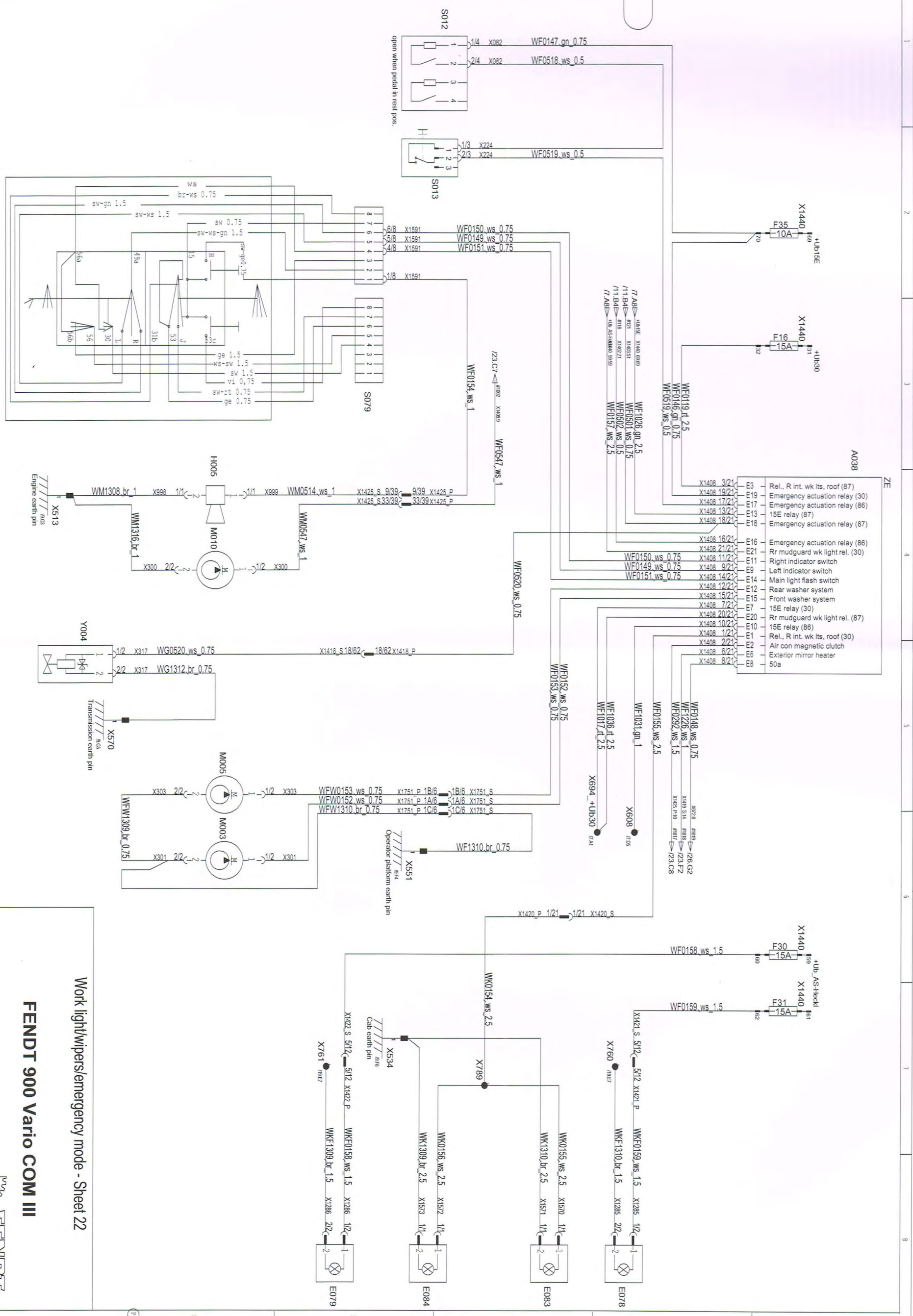
21 Work light/wipers/emergency mode - Sheet 22

- A038** - ECU, central electrical system (Item A 4-5)
- E078** - Work light, rear right mudguard (optional Xenon) (Item B8)
- E079** - Work light, rear left mudguard (optional Xenon) (Item D8)
- E083** - Work light, rear right internal (roof) (Item C8)
- E084** - Work light, rear left internal (roof) (Item CD8)
- H005** - Horn (Item E4)
- M003** - Wiper pump, front (Item E6)
- M005** - Wiper pump, rear (Item E5)
- M010** - Fuel pump (Item E4)
- S012** - Switch, starter lockout (Item CD 1)
- S013** - Emergency mode button (Item CD 2)
- S079** - Switch, steering column (Item. EF 2-3)
- X513** - Earth pin, engine (Item F4)
- X534** - Earth pin, cab body (Item D7)
- X551** - Earth pin, operator platform right (Item D6)
- X570** - Earth pin, transmission (Item E5)
- X608** - Connector, + UB 15 (Item B6)
- X694** - Connector, +UB 30 (A038) (Item BC6)
- X760** - Connector, earth (Item B7)
- X761** - Connector, earth (Item D7)
- X789** - Connector, signal (E083/E084) (Item C7)
- X1418** - Cable coupling, operator platform/transmission (Item D 4/5)
- X1420** - Cab cable coupling (Item C6)
- X1421** - Cable coupling, operator platform (Item B7)
- X1422** - Cable coupling, mudguard (Item D7)
- X1425** - Cable coupling, operator platform (Item D4)
- X1440** - Fuse holder (Item A2, A3, A6, A7)
- X1591** - Separation point on S079 (Item D2)
- X1751** - Separation point, left frame earth point (Item C 5/6)
- Y004** - Solenoid valve, turbo-clutch (Item F5)

22 Air conditioning/mirror/3rd hydraulic circuit - Sheet 23

- A038** - ECU, central electrical system (Item A 5-6)
- A039** - MFA, multifunction armrest (Item A 2-3)
- A053** - ECU, air conditioning control (Item DE 3/4, DE5)
- E063** - Heater element, air dryer (temperature-controlled) (Item E7)
- E106** - Exterior mirror (adjustment/heater), right (Item A1)
- E107** - Exterior mirror (adjustment/heater), left (Item A2)
- M015** - Actuator motor, top/middle air flap (Item E 5/6)
- M016** - Servomotor, bottom air valve (Item E6)
- M017** - Primary fan (Item E4)
- S035** - Switch, high-pressure/low-pressure (air conditioning system) (Item E7)
- X015** - External control socket (Item F 4/5)
- X342** - Separation point on Y024 (Item E8)
- X552** - Earth pin, operator platform (Item F4)
- X572** - Earth pin, transmission (Item D7)
- X694** - Connector, +UB 30 (A038) (Item B4)
- X796** - Cable coupling (M002) (Item C 5/6)
- X797** - Connector, air conditioning coupler signal (Item D8)
- X838** - Separation point on X015 socket, external control (Item E6)
- X868** - Separation point on E106 (Item B1)
- X869** - Separation point on E107 (Item B2)
- X920** - Separation point on A053 (Item D5)
- X921** - Separation point on A053 (Item D4)
- X1401** - Separation point on A039 (Item B 2/3)
- X1418** - Cable coupling, operator platform/transmission (Item C7)
- X1419** - Cab cable coupling (Item D1-2)
- X1423** - Cable coupling, operator platform/transmission (Item C6)
- X1425** - Cable coupling, operator platform (Item C7)
- X1440** - Fuse holder (Item A3, A4, A7, A8)
- X1555** - Separation point on M017 (Item E4)
- X1600** - Cable coupling, to rear work lights (roof) (Item C4)
- Y024** - Magnetic clutch, air conditioning compressor (Item E8)

Wichtige sowie Vermeidungsmaßnahmen: Die richtige, Verwertung und Nutzung eines
 Inhaltes nicht gestattet, ohne die entsprechenden, Anweisungen
 verpflichtet zu Schadensersatz. Achte für den Fall der Reparatur oder



- A038**
- X1408 3/21 Rel., R int. wk lts, roof (87)
 - X1408 19/21 Emergency actuation relay (30)
 - X1408 17/21 Emergency actuation relay (86)
 - X1408 13/21 15E relay (87)
 - X1408 18/21 Emergency actuation relay (87)
 - X1408 16/21 Emergency actuation relay (86)
 - X1408 21/21 Rr mudguard wk light rel. (30)
 - X1408 11/21 Left indicator switch
 - X1408 9/21 Main light flash switch
 - X1408 14/21 Rear washer system
 - X1408 12/21 Front washer system
 - X1408 7/21 15E relay (30)
 - X1408 20/21 Rr mudguard wk light rel. (87)
 - X1408 10/21 15E relay (86)
 - X1408 1/21 Rel., R int. wk lts, roof (30)
 - X1408 2/21 Air con magnetic clutch
 - X1408 6/21 Exterior mirror heater
 - X1408 8/21 50a

Work light/wipers/emergency mode - Sheet 22

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22 Air conditioning/mirror/3rd hydraulic circuit - Sheet 23

- A038** - ECU, central electrical system (Item A 5-6)
- A039** - MFA, multifunction armrest (Item A 2-3)
- A053** - ECU, air conditioning control (Item DE 3/4, DE5)
- E063** - Heater element, air dryer (temperature-controlled) (Item E7)
- E106** - Exterior mirror (adjustment/heater), right (Item A1)
- E107** - Exterior mirror (adjustment/heater), left (Item A2)
- M015** - Actuator motor, top/middle air flap (Item E 5/6)
- M016** - Servomotor, bottom air valve (Item E6)
- M017** - Primary fan (Item E4)
- S035** - Switch, high-pressure/low-pressure (air conditioning system) (Item E7)
- X015** - External control socket (Item F 4/5)
- X342** - Separation point on Y024 (Item E8)
- X552** - Earth pin, operator platform (Item F4)
- X572** - Earth pin, transmission (Item D7)
- X694** - Connector, +UB 30 (A038) (Item B4)
- X796** - Cable coupling (M002) (Item C 5/6)
- X797** - Connector, air conditioning coupler signal (Item D8)
- X838** - Separation point on X015 socket, external control (Item E6)
- X868** - Separation point on E106 (Item B1)
- X869** - Separation point on E107 (Item B2)
- X920** - Separation point on A053 (Item D5)
- X921** - Separation point on A053 (Item D4)
- X1401** - Separation point on A039 (Item B 2/3)
- X1418** - Cable coupling, operator platform/transmission (Item C7)
- X1419** - Cab cable coupling (Item D1-2)
- X1423** - Cable coupling, operator platform/transmission (Item C6)
- X1425** - Cable coupling, operator platform (Item C7)
- X1440** - Fuse holder (Item A3, A4, A7, A8)
- X1555** - Separation point on M017 (Item E4)
- X1600** - Cable coupling, to rear work lights (roof) (Item C4)
- Y024** - Magnetic clutch, air conditioning compressor (Item E8)

23 Radio/Auto-Guide terminal - Sheet 24

- A015** - Radio (Item C 6-7)
- A059** - Terminal (Auto-Guide) (Item AB1)
- B050** - Loudspeaker, left (Item E7)
- B051** - Loudspeaker, right (Item E6)
- B061** - Loudspeaker (Item E6)
- B062** - Loudspeaker (Item E7)
- U002** - Radio aerial (Item A5)
- X533** - Earth pin, cab body (Item C5)
- X553** - Earth pin, operator platform (Item D4)
- X738** - Connector, serial RXD (Item D4)
- X739** - Connector, serial TXD (Item D4)
- X1315** - Separation point on radio (compact plug) (Item C 6/7)
- X1316** - Separation point on radio (compact plug) (Item C 6/7)
- X1420** - Cab cable coupling (Item B7)
- X1440** - Fuse holder (Item A4)
- X1578** - Connector, + UB 15 (Item C4)
- X1597** - Cable coupling A059 (Item CD3)
- X1683** - Cable coupling, camera socket (Item D2)
- X1729** - Connector, ISO bus_Low (Item C2)
- X1730** - Connector, ISO bus_Low (Item C2)
- X1731** - Connector, ISO bus_High (Item C2)
- X1734** - Connector, ISO bus_High (Item C2)
- X1735** - Connector, earth (Auto-Guide) (Item C2)
- X1740** - Connector, Auto-Guide (+UB 15) (Item C2)
- X1742** - Connector, Auto-Guide (+UB 30) (Item C2)

23 Radio/Auto-Guide terminal - Sheet 24

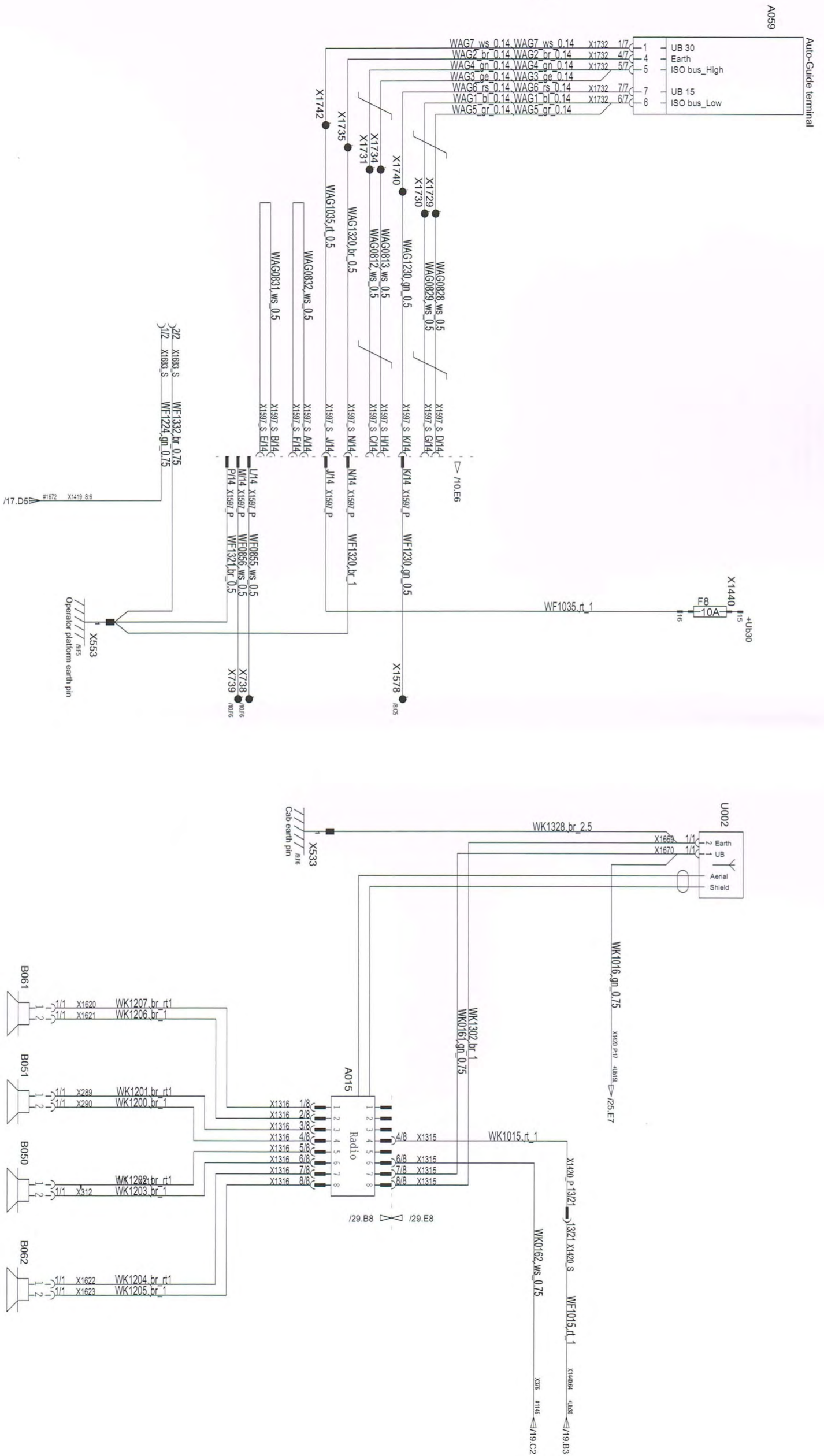
A015 - Radio (Item C 6-7)
A059 - Terminal (Auto-Guide) (Item AB1)
B050 - Loudspeaker, left (Item E7)
B051 - Loudspeaker, right (Item E6)
B061 - Loudspeaker (Item E6)
B062 - Loudspeaker (Item E7)
U002 - Radio aerial (Item A5)
X533 - Earth pin, cab body (Item C5)
X553 - Earth pin, operator platform (Item D4)
X738 - Connector, serial RXD (Item D4)
X739 - Connector, serial TXD (Item D4)
X1315 - Separation point on radio (compact plug) (Item C 6/7)
X1316 - Separation point on radio (compact plug) (Item C 6/7)
X1420 - Cab cable coupling (Item B7)
X1440 - Fuse holder (Item A4)
X1578 - Connector, + UB 15 (Item C4)
X1597 - Cable coupling A059 (Item CD3)
X1683 - Cable coupling, camera socket (Item D2)
X1729 - Connector, ISO bus_Low (Item C2)
X1730 - Connector, ISO bus_Low (Item C2)
X1731 - Connector, ISO bus_High (Item C2)
X1734 - Connector, ISO bus_High (Item C2)
X1735 - Connector, earth (Auto-Guide) (Item C2)
X1740 - Connector, Auto-Guide (+UB 15) (Item C2)
X1742 - Connector, Auto-Guide (+UB 30) (Item C2)

24 ISO bus/load sockets - Sheet 25

K061 - ISO bus disconnect relay (Item A1)
X028 - ISO socket (cab) (Item A6)
X254 - 10 amp socket (Item E7)
X255 - 25 A socket (+ UB 30) (Item E8)
X256 - 25 amp socket (earth) (Item E8)
X400 - Rear ISO implement socket (Item F2)
X497 - Separation point, ISO preparation (Item D2)
X533 - Earth pin, cab body (Item E8)
X534 - Earth pin, cab body (Item E4)
X553 - Earth pin, operator platform (Item E3)
X554 - Earth pin, operator platform (Item E6)
X559 - Earth pin, transmission (Item F1)
X684 - Connector, ISO socket earth (Item E1)
X725 - Connector, K bus_High (Item D3)
X726 - Connector, K bus_Low (Item D3)
X727 - Connector, ISO bus_High (Item B3)
X728 - Connector, ISO bus_Low (Item B2)
X845 - 25 A socket (+ UB 30) (Item E8)
X846 - 25 amp socket (earth) (Item E8)
X847 - 25 A socket (+ UB 30) (Item E7)
X848 - 25 amp socket (earth) (Item E7)
X1417 - Cable coupling, operator platform/cab (Item C4)
X1419 - Cab cable coupling (Item B4)
X1420 - Cab cable coupling (Item C 7/8)
X1424 - Cable coupling, operator platform (Item C2)
X1440 - Fuse holder (Item A3, A7, A8)
X1539 - ISO bus diagnostics socket (Item E 2/3)
X1633 - Separation point, Auto-Guide TopDock (Item CD5)
X1649 - Separation point, 10 amp socket (Item E7)

NOTE: If nothing is connected to **X028** - ISO socket (cab) the short-circuit connector H515.810.210.030 must be fitted.

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Radio / Auto-Guide terminal - Sheet 24

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24 ISO bus/load sockets - Sheet 25

- K061** - ISO bus disconnect relay (Item A1)
- X028** - ISO socket (cab) (Item A6)
- X254** - 10 amp socket (Item E7)
- X255** - 25 A socket (+ UB 30) (Item E8)
- X256** - 25 amp socket (earth) (Item E8)
- X400** - Rear ISO implement socket (Item F2)
- X497** - Separation point, ISO preparation (Item D2)
- X533** - Earth pin, cab body (Item E8)
- X534** - Earth pin, cab body (Item E4)
- X553** - Earth pin, operator platform (Item E3)
- X554** - Earth pin, operator platform (Item E6)
- X559** - Earth pin, transmission (Item F1)
- X684** - Connector, ISO socket earth (Item E1)
- X725** - Connector, K bus_High (Item D3)
- X726** - Connector, K bus_Low (Item D3)
- X727** - Connector, ISO bus_High (Item B3)
- X728** - Connector, ISO bus_Low (Item B2)
- X845** - 25 A socket (+ UB 30) (Item E8)
- X846** - 25 amp socket (earth) (Item E8)
- X847** - 25 A socket (+ UB 30) (Item E7)
- X848** - 25 amp socket (earth) (Item E7)
- X1417** - Cable coupling, operator platform/cab (Item C4)
- X1419** - Cab cable coupling (Item B4)
- X1420** - Cab cable coupling (Item C 7/8)
- X1424** - Cable coupling, operator platform (Item C2)
- X1440** - Fuse holder (Item A3, A7, A8)
- X1539** - ISO bus diagnostics socket (Item E 2/3)
- X1633** - Separation point, Auto-Guide TopDock (Item CD5)
- X1649** - Separation point, 10 amp socket (Item E7)

NOTE: If nothing is connected to **X028** - ISO socket (cab) the short-circuit connector H515.810.210.030 must be fitted.

25 EDC engine control - Sheet 26

- A050** - ECU, basic control unit (Item A7)
- A051** - ECU, engine control unit (EDC 7). (Item A 2-3)
- B004** - Vacuum switch (air filter) (Item DE 2/3)
- B055** - Sensor, foot throttle (Item E7)
- B077** - Engine fan (speed sensor/magnetic clutch) (Item DE 1)
- K065** - Starter relay (Item D8)
- M001** - starter. (Item E8)
- S002** - Switch, ignition (Item E3)
- S012** - Switch, starter lockout (Item E4)
- S034** - Switch, coolant level (Item DE2)
- S047** - Switch, engine brake (Item E4)
- X553** - Earth pin, operator platform (Item E5)
- X660** - Connector, sensor system earth (Item D6)
- X810** - EDC diagnostics socket (engine control unit) (Item E 5/6)
- X1424** - Cable coupling, operator platform (Item C5)
- X1528** - Connector, sensor system supply (Item C3)
- X1532** - Separation point on B077 (Item D1)

25 EDC engine control - Sheet 26

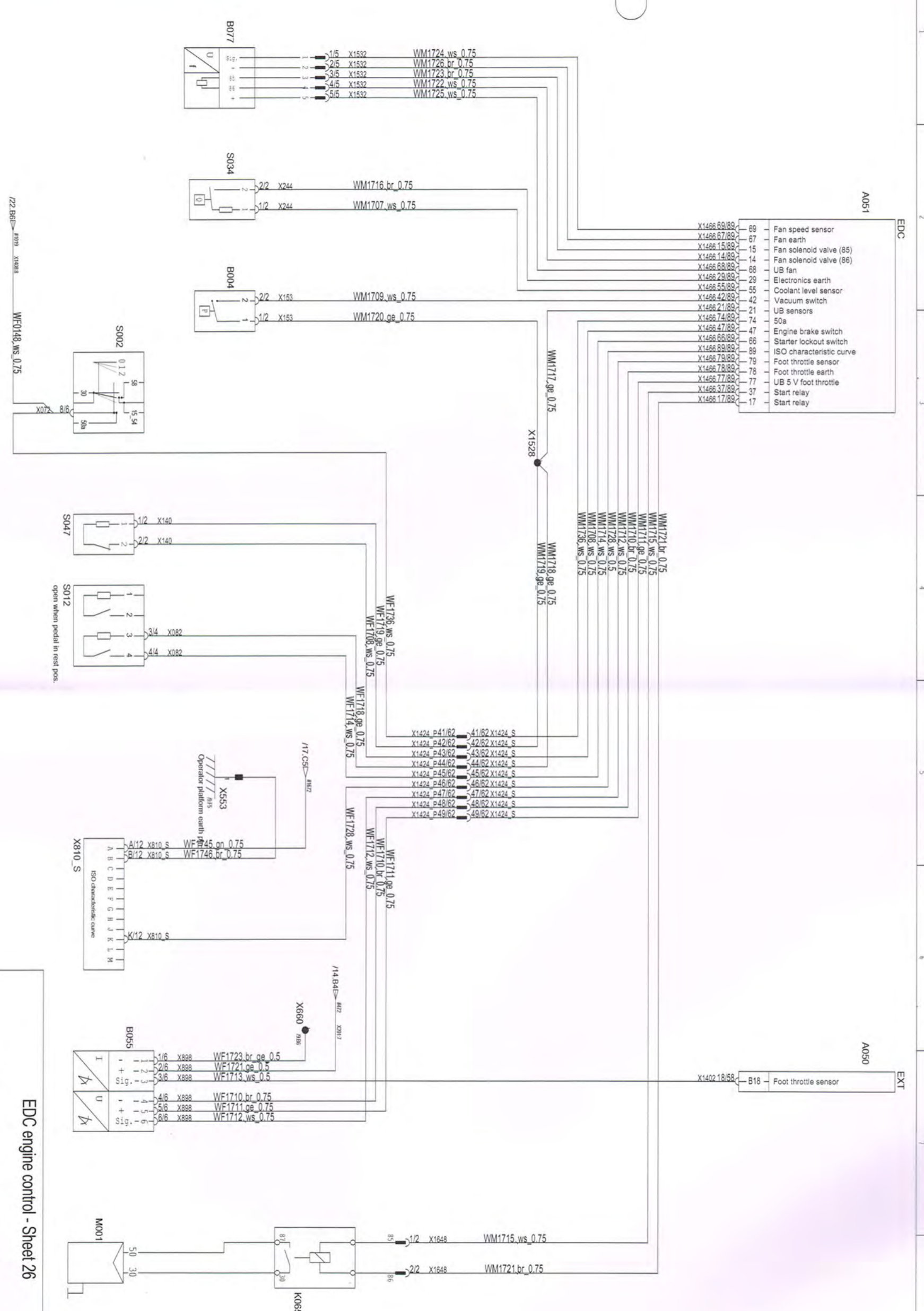
A050 - ECU, basic control unit (Item A7)
A051 - ECU, engine control unit (EDC 7). (Item A 2-3)
B004 - Vacuum switch (air filter) (Item DE 2/3)
B055 - Sensor, foot throttle (Item E7)
B077 - Engine fan (speed sensor/magnetic clutch) (Item DE 1)
K065 - Starter relay (Item D8)
M001 - starter. (Item E8)
S002 - Switch, ignition (Item E3)
S012 - Switch, starter lockout (Item E4)
S034 - Switch, coolant level (Item DE2)
S047 - Switch, engine brake (Item E4)
X553 - Earth pin, operator platform (Item E5)
X660 - Connector, sensor system earth (Item D6)
X810 - EDC diagnostics socket (engine control unit) (Item E 5/6)
X1424 - Cable coupling, operator platform (Item C5)
X1528 - Connector, sensor system supply (Item C3)
X1532 - Separation point on B077 (Item D1)

26 KHD engine control - Sheet 27

A051 - ECU, engine control unit (EDC 7). (Item A 3-5, A7)
B085 - Camshaft speed sensor (Item E3)
B086 - Rail pressure sensor (Item E3)
B087 - Fuel low pressure sensor (Item E4)
B088 - Crankshaft speed sensor (Item E4)
B089 - Engine temperature sensor (Deutz) (Item E5)
B090 - Sensor, oil pressure (Item E5)
B091 - Sensor, water in fuel (Item E5)
B092 - Sensor, charge air pressure/temperature (Item E6)
K063 - Heater flange relay (Item E2)
R002 - Heater flange (Item F2)
X1673 - Cylinder head cable coupling (injectors) (Item C7)
X1674 - Separation point on Y094 (Item D1)
X1675 - Connector, earth (Item D5)
X1676 - Connector + UB 12 VDC (Item C2)
X1677 - Cylinder head cable coupling (injectors) (Item C7)
Y006 - Solenoid valve, engine brake (Item E2)
Y091 - Dispensing unit (fuel) (Item E8)
Y094 - Actuator unit, AGR (exhaust gas recirculation) (Item E1)
Y095 - Injector valve 1 (injector) (Item E6)
Y096 - Injector valve 2 (injector) (Item E7)
Y097 - Injector valve 3 (injector) (Item E7)
Y098 - Injector valve 4 (injector) (Item E7)
Y100 - Injector valve 5 (injector) (Item E8)
Y101 - Injector valve 6 (injector) (Item E8)

NOTE: The dispensing unit and the injectors are not only actuated via the positive side, but also via the negative side.
 The positive side is called *_High* in the E-box.
 The negative side is called *_Low* in the E-box.

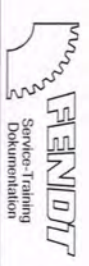
Metropole Bonn Vertikalforschungsmaschinen, Herstellung und Montage sowie
 Totaler nicht geprüfter, überwachungsbedürftiger, kapazitiver, Druckvermögen
 verlustlos zu Schweißverbindungen, Abdrucke für den Fall der Patentierung sind



EDC engine control - Sheet 26

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26 KHD engine control - Sheet 27

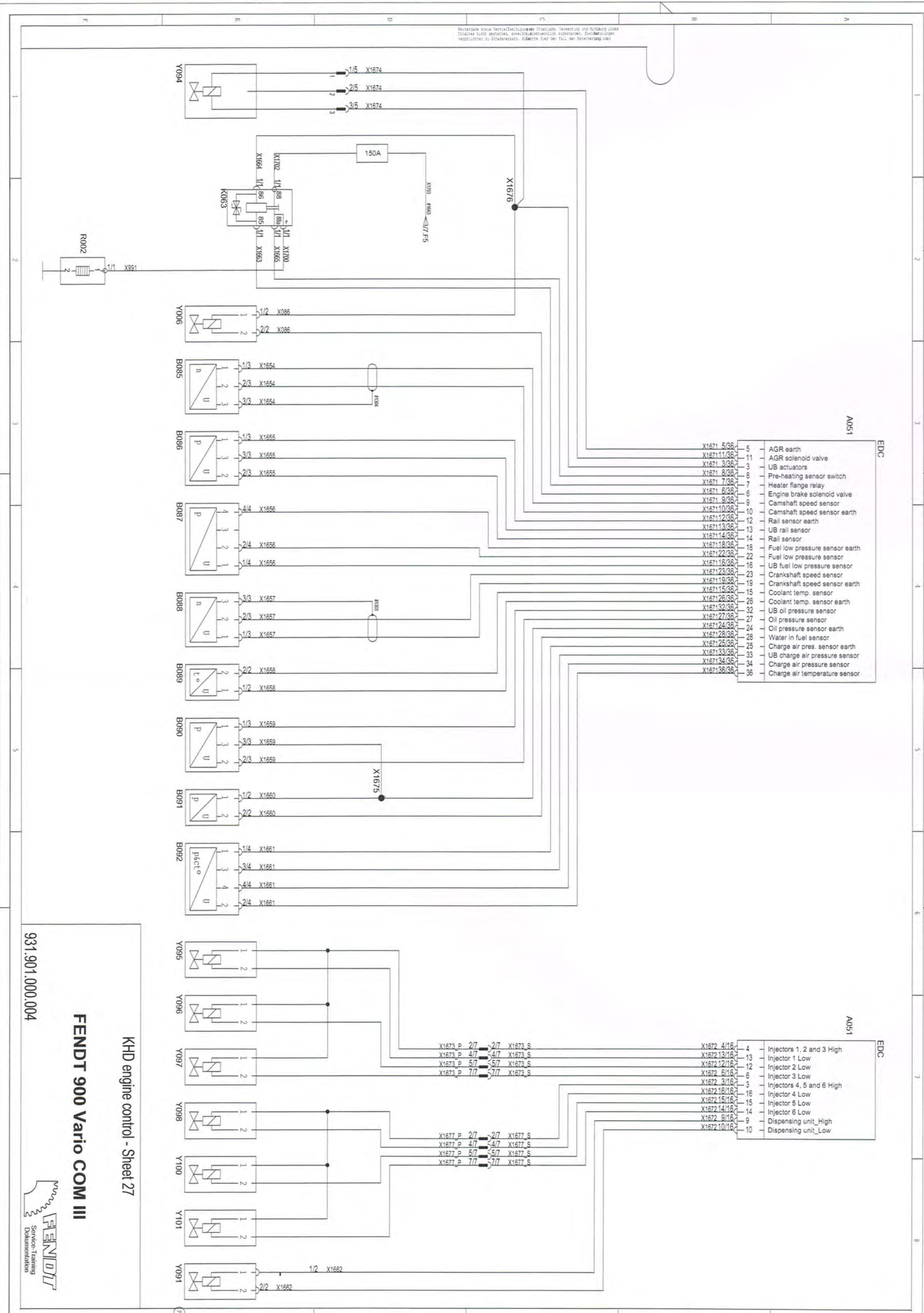
- A051** - ECU, engine control unit (EDC 7). (Item A 3-5, A7)
- B085** - Camshaft speed sensor (Item E3)
- B086** - Rail pressure sensor (Item E3)
- B087** - Fuel low pressure sensor (Item E4)
- B088** - Crankshaft speed sensor (Item E4)
- B089** - Engine temperature sensor (Deutz) (Item E5)
- B090** - Sensor, oil pressure (Item E5)
- B091** - Sensor, water in fuel (Item E5)
- B092** - Sensor, charge air pressure/temperature (Item E6)
- K063** - Heater flange relay (Item E2)
- R002** - Heater flange (Item F2)
- X1673** - Cylinder head cable coupling (injectors) (Item C7)
- X1674** - Separation point on Y094 (Item D1)
- X1675** - Connector, earth (Item D5)
- X1676** - Connector + UB 12 VDC (Item C2)
- X1677** - Cylinder head cable coupling (injectors) (Item C7)
- Y006** - Solenoid valve, engine brake (Item E2)
- Y091** - Dispensing unit (fuel) (Item E8)
- Y094** - Actuator unit, AGR (exhaust gas recirculation) (Item E1)
- Y095** - Injector valve 1 (injector) (Item E6)
- Y096** - Injector valve 2 (injector) (Item E7)
- Y097** - Injector valve 3 (injector) (Item E7)
- Y098** - Injector valve 4 (injector) (Item E7)
- Y100** - Injector valve 5 (injector) (Item E8)
- Y101** - Injector valve 6 (injector) (Item E8)

NOTE: *The dispensing unit and the injectors are not only actuated via the positive side, but also via the negative side.
 The positive side is called _High in the E-box.
 The negative side is called _Low in the E-box.*

27 Immobiliser/Vario-Doc/Auto-Guide/direction indicator LED - Sheet 28

- A038** - ECU, central electrical system (Item AB 1/2)
- A055** - ECU, data transfer (Item CD7)
- A058** - TopDock (Auto-Guide) (Item EF 1/2)
- A075** - ECU, tail light LED, right (Item A3)
- A076** - ECU, tail light LED, left (Item A4)
- A077** - Immobiliser ECU (Item A5)
- X554** - Earth pin, operator platform (Item B5)
- X1343** - Connector, G bus_High (Item B7)
- X1344** - Connector, G bus_Low (Item B7)
- X1407 [D]** - Separation point on A038 (Item C 1/2)
- X1634** - Connector (+ UB 30) (Item BC 7)
- X1636** - Vario-Doc cable coupling (Items E5, E8)
- X1637** - Connector, ISO bus_Low (A055 Vario-Doc) (Item E7)
- X1638** - Connector, ISO bus_High (A055 Vario-Doc) (Item E7)
- X1639** - Connector, K bus_High (Item E7)
- X1640** - Connector, K bus_Low (Item E7)
- X1787** - Connector, + UB 15 (Item BC 7)
- X4000** - Separation point on X1633_P (Item E4)
- X4001** - Separation point on X1633_S (Item DE4)
- X4002** - Auto-Guide diagnostics socket (Item E2)
- X4003** - Connector, ISO bus_Low (Item D2)
- X4004** - Connector, ISO bus_High (Item D2)
- X4005** - Connector, V bus_Low (Item D2)
- X4006** - Connector, V bus_High (Item E2)
- X4007** - Earth pin, operator platform (Item C3)

Werkstoffe sowie Verarbeitungsanforderungen, Verwertung und Nutzung aller
Teile sind durch die Fertigung, sowie die Montagearbeiten zu berücksichtigen. Die
Verpflichtung zu Schadensersatz, Schäden sind bei der Reparatur zu berücksichtigen.



- | | | |
|----|-------------|--------------------------------|
| 5 | X1671 5/36 | AGR earth |
| 11 | X1671 11/36 | AGR solenoid valve |
| 3 | X1671 3/36 | UB actuators |
| 8 | X1671 8/36 | Pre-heating sensor switch |
| 7 | X1671 7/36 | Heater flange relay |
| 6 | X1671 6/36 | Engine brake solenoid valve |
| 9 | X1671 9/36 | Camshaft speed sensor |
| 10 | X1671 10/36 | Camshaft speed sensor earth |
| 12 | X1671 12/36 | Rail sensor earth |
| 13 | X1671 13/36 | UB rail sensor |
| 14 | X1671 14/36 | Rail sensor |
| 18 | X1671 18/36 | Fuel low pressure sensor earth |
| 22 | X1671 22/36 | Fuel low pressure sensor |
| 16 | X1671 16/36 | UB fuel low pressure sensor |
| 23 | X1671 23/36 | Crankshaft speed sensor |
| 19 | X1671 19/36 | Crankshaft speed sensor earth |
| 15 | X1671 15/36 | Coolant temp. sensor |
| 26 | X1671 26/36 | Coolant temp. sensor earth |
| 32 | X1671 32/36 | UB oil pressure sensor |
| 27 | X1671 27/36 | Oil pressure sensor |
| 24 | X1671 24/36 | Oil pressure sensor earth |
| 28 | X1671 28/36 | Water in fuel sensor |
| 25 | X1671 25/36 | Charge air pres. sensor earth |
| 33 | X1671 33/36 | UB charge air pressure sensor |
| 34 | X1671 34/36 | Charge air pressure sensor |
| 36 | X1671 36/36 | Charge air temperature sensor |

- | | | |
|----|-------------|---------------------------|
| 4 | X1672 4/16 | Injectors 1, 2 and 3 High |
| 13 | X1672 13/16 | Injector 1 Low |
| 12 | X1672 12/16 | Injector 2 Low |
| 8 | X1672 8/16 | Injector 3 Low |
| 6 | X1672 6/16 | Injectors 4, 5 and 6 High |
| 16 | X1672 16/16 | Injector 4 Low |
| 15 | X1672 15/16 | Injector 5 Low |
| 14 | X1672 14/16 | Injector 6 Low |
| 9 | X1672 9/16 | Dispensing unit_High |
| 10 | X1672 10/16 | Dispensing unit_Low |

KHD engine control - Sheet 27

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27 Immobiliser/Vario-Doc/Auto-Guide/direction indicator LED - Sheet 28

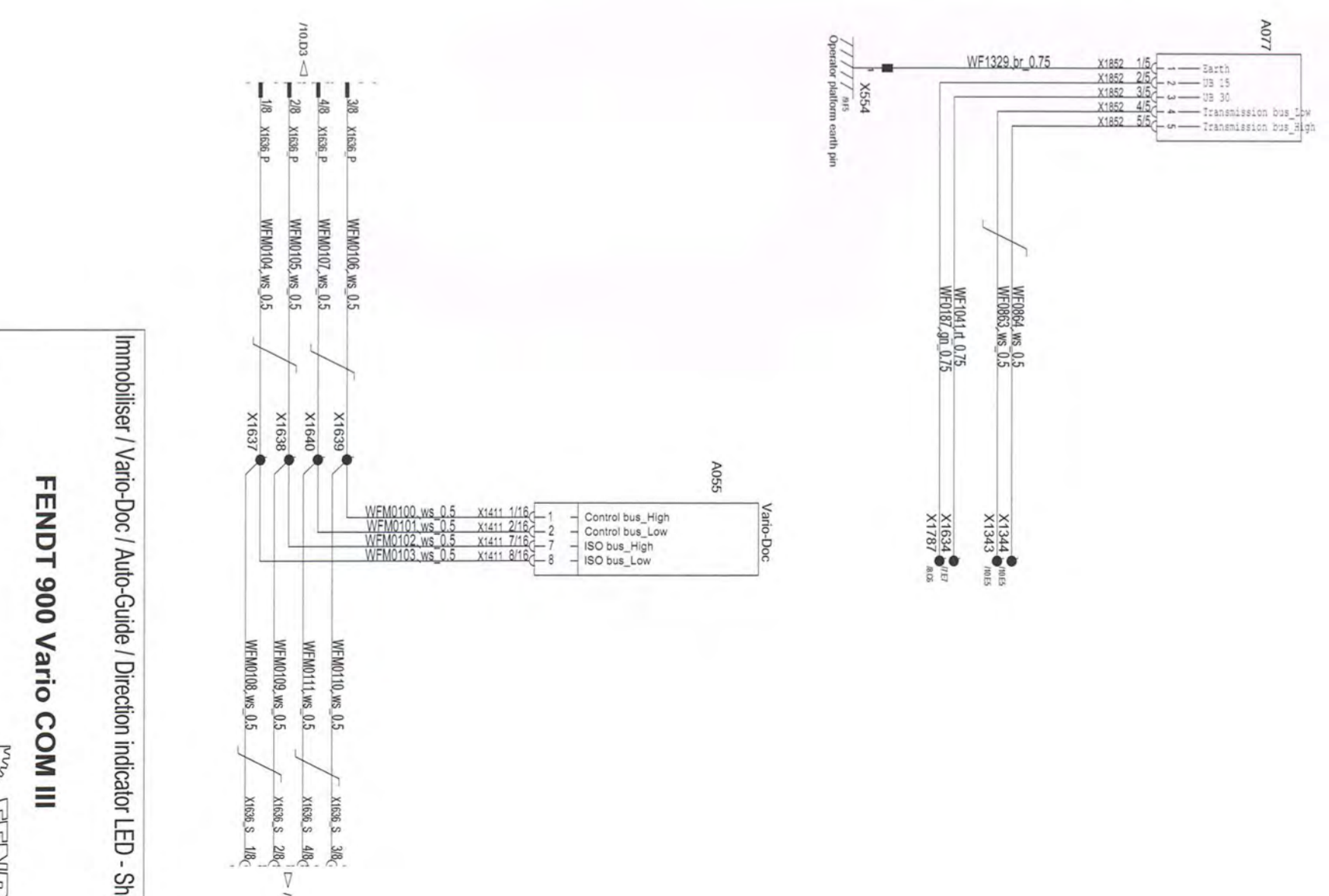
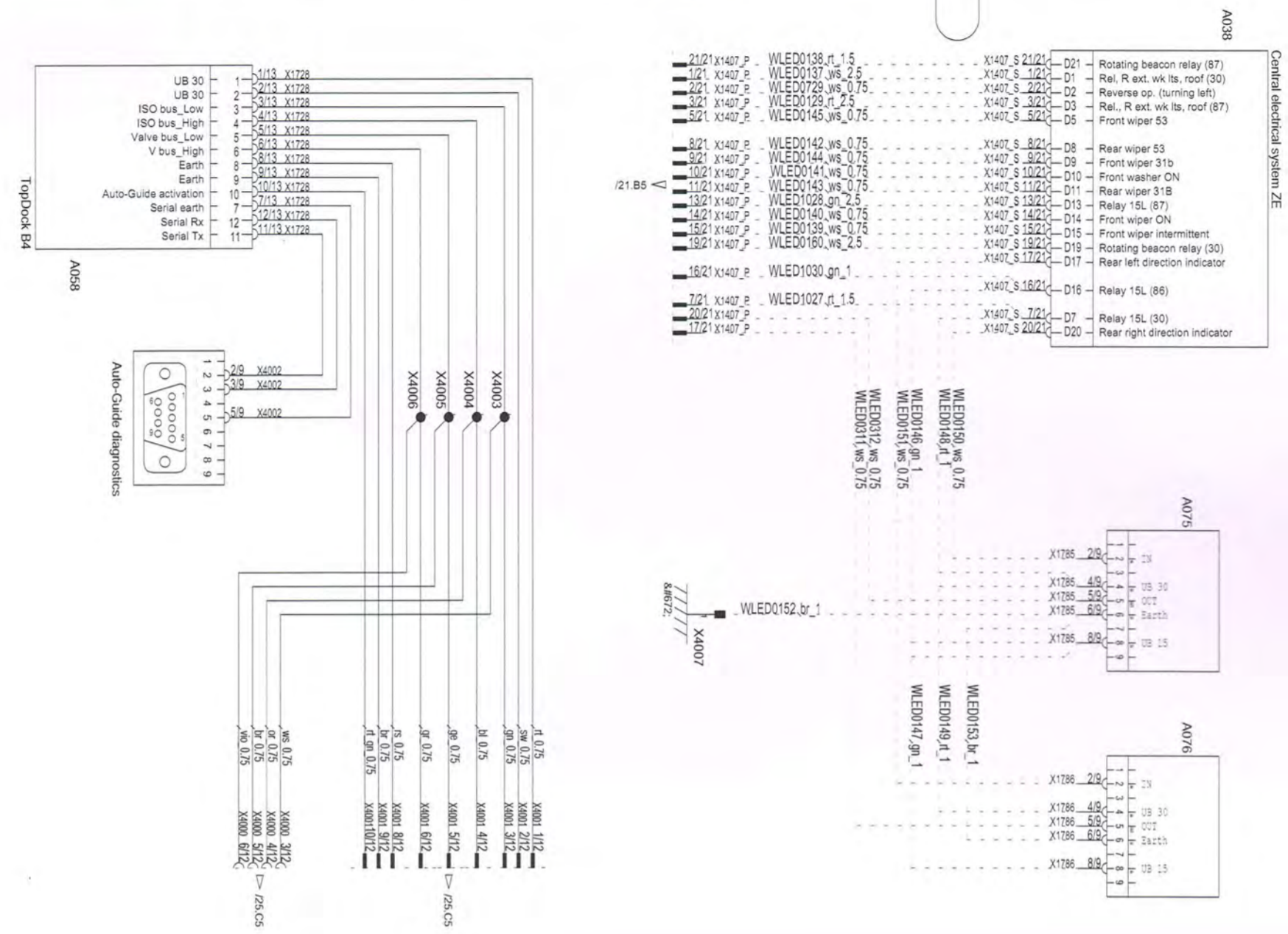
A038 - ECU, central electrical system (Item AB 1/2)
A055 - ECU, data transfer (Item CD7)
A058 - TopDock (Auto-Guide) (Item EF 1/2)
A075 - ECU, tail light LED, right (Item A3)
A076 - ECU, tail light LED, left (Item A4)
A077 - Immobiliser ECU (Item A5)
X554 - Earth pin, operator platform (Item B5)
X1343 - Connector, G bus_High (Item B7)
X1344 - Connector, G bus_Low (Item B7)
X1407 [D] - Separation point on A038 (Item C 1/2)
X1634 - Connector (+ UB 30) (Item BC 7)
X1636 - Vario-Doc cable coupling (Items E5, E8)
X1637 - Connector, ISO bus_Low (A055 Vario-Doc) (Item E7)
X1638 - Connector, ISO bus_High (A055 Vario-Doc) (Item E7)
X1639 - Connector, K bus_High (Item E7)
X1640 - Connector, K bus_Low (Item E7)
X1787 - Connector, + UB 15 (Item BC 7)
X4000 - Separation point on X1633_P (Item E4)
X4001 - Separation point on X1633_S (Item DE4)
X4002 - Auto-Guide diagnostics socket (Item E2)
X4003 - Connector, ISO bus_Low (Item D2)
X4004 - Connector, ISO bus_High (Item D2)
X4005 - Connector, V bus_Low (Item D2)
X4006 - Connector, V bus_High (Item E2)
X4007 - Earth pin, operator platform (Item C3)

28 Hands-free device/tachograph - Sheet 29

A015 - Radio (Item D7)
A060 - Hands-free device (Item C4)
A078 - Tachograph ECU (Item A1, A2)
B095 - Microphone (Item D6)
B101 - KITAS sensor (Item F2)
X1315 - Separation point on radio (compact plug) (Item B8)
X1417 - Cable coupling, operator platform/cab (Items C1, C2/3)
X1423 - Cable coupling, operator platform/transmission (Item E1)
X1767 - Separation point on radio to B050/B051 (Item D8)
X4091 - Connector, +UB 15 on A078 (Item D3)
X5028 - Connector, cab earth pin (Item D3)

NOTE: Work on the **A078** - Tachograph ECU may only be undertaken by authorised personnel.

Wichtigste Arbeitshinweise: Die Kabel sind nach der Funktion geordnet. Die Kabel sind nach der Funktion geordnet. Die Kabel sind nach der Funktion geordnet.



28 Hands-free device/tachograph - Sheet 29

- A015 - Radio (Item D7)
- A060 - Hands-free device (Item C4)
- A078 - Tachograph ECU (Item A1, A2)
- B095 - Microphone (Item D6)
- B101 - KITAS sensor (Item F2)
- X1315 - Separation point on radio (compact plug) (Item B8)
- X1417 - Cable coupling, operator platform/cab (Items C1, C2/3)
- X1423 - Cable coupling, operator platform/transmission (Item E1)
- X1767 - Separation point on radio to B050/B051 (Item D8)
- X4091 - Connector, +UB 15 on A078 (Item D3)
- X5028 - Connector, cab earth pin (Item D3)

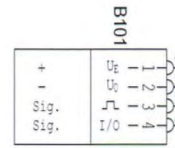
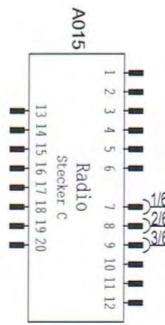
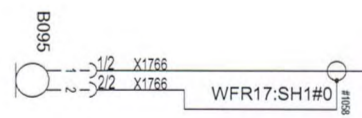
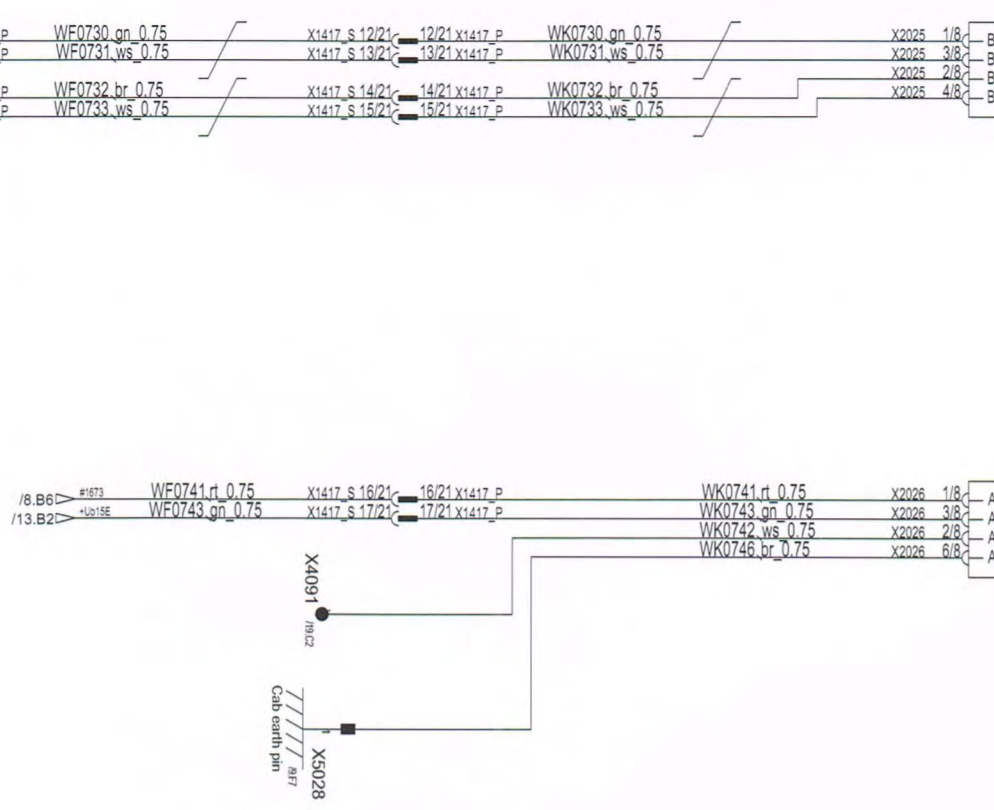
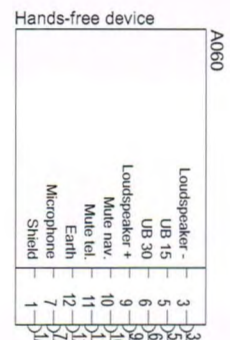
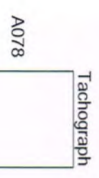
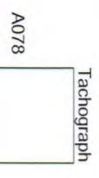
NOTE: Work on the **A078** - Tachograph ECU may only be undertaken by authorised personnel.

1 Transmission hydraulic system diagram - 931.100.000.002

Item	DIN	Designation	Item	DIN	Designation
Switching circuits:			Valves:		
1		Valve block, feed/lubrication	1V1		Radiator bypass valve
2		Main circuit	1V2		Pressure-limiting valve, discharge
3		Displacement	1V3		Pressure-limiting valve, feed
4		Valve block, enhanced hydraulics	1V4		Pressure-limiting valve, lubrication
5		Brake and rear axle	1V5		Pressure-limiting valve, servo pump
6		Valve block, rear axle	1V6		Pressure-limiting valve, servo circuit
7		Front PTO	2V1		Feed valve, forward
Pumps:			2V2		Feed valve, reverse
1P1		Servo pump	2V3		High-pressure limiting valve, forward
1P2		Lubrication pump	2V4		High-pressure limiting valve, reverse
2P1		Hydraulic pump	2V5		Purge valve
Drives:			2V6		Shuttle valve
2A1		Hydraulic motor	3V1		Hydraulic pump governor
2A2		Hydraulic motor	3V2		Hydraulic motor governor
3A1		Variable displacement cylinder, hydraulic pump	4V1	Y002	Solenoid valve, travel range 1
3A2		Variable displacement cylinder, hydraulic motor	4V2	Y003	Solenoid valve, travel range 2
3A3		Speed governor, emergency mode	4V3	Y005	Solenoid valve, speed governor
4A1		Range selector	4V4	Y004	Turbo clutch solenoid valve
6A1		Clutch, rear PTO	4V5		Pressure-limiting valve, clutch
6A3		Selector cylinder, PTO level 1 ⁽¹⁾	4V6		Pressure reducing valve, rear axle
6A4		4WD clutch	6V1	Y008	Solenoid valve, rear PTO
6A5		Differential lock, rear axle	6V3	Y026	Solenoid valve, PTO level 1 ⁽¹⁾
6A6		Selector cylinder, PTO level 2	6V4	Y009	4WD solenoid valve
6A7		Differential lock, front axle	6V5	Y010	Solenoid valve, differential lock
Buzzers:			6V6	Y027	Solenoid valve, PTO level 2
1S1	B009	Discharge temperature	Measuring points:		
1S2	S017	Transmission oil contamination switch	M1		Radiator feed
4S1	B008	Sensor, high-pressure 1	M2		Pressure lubrication
4S2	B039	Sensor, high-pressure 2	M3		Outlet pressure
Other components:			M4		Inlet pressure
1Z1		Suction filter with bypass	M5		Pressure, servo pump
1Z2		Pressure filter with bypass	M6		System pressure, transmission
1Z3		Transmission oil cooler	M7		Switching pressure, travel range 1
1Z4		Transmission lubrication	M8		Switching pressure, travel range 2
3Z1		Actuator shaft	M9		High-pressure
3Z2	A009	Actuator unit	M10		System pressure, rear axle
4Z1		Clutch pedal with sensor cylinder	M11		Pressure, PTO clutch
4Z2		Pressure accumulator	M13		Switching pressure, PTO level 1 ⁽¹⁾
4Z3		Strainer insert	M14		Pressure, 4WD clutch
4Z4		Rotary feedthrough RÜFA	M15		Pressure, differential lock
5Z2		Lubrication, rear PTO	M16		Switching pressure, PTO level 2
			M18		Lubrication pressure, rear axle
			M22		Clutch and turbo-clutch valve leakage

1. Depending on the version, level 1 operates at the following PTO speeds: 540/540 E or 1000 E (1000 E is available from chassis number 9XX/2X/3501 onwards on request).

Wichtigste sowie Vertikal-fällige: Die Anlage, Verwertung und Nutzung sowie
 Inhaltlich nicht getrennt, sondern zusammenfassend dargestellt. Zuverlässigkeit
 verpflichtet zu Schadensersatz. A.Machte fuer den Fall der Patentierung oder



Hands-free device / tachograph - Sheet 29

FENDT 900 Vario COM III

931.901.000.004

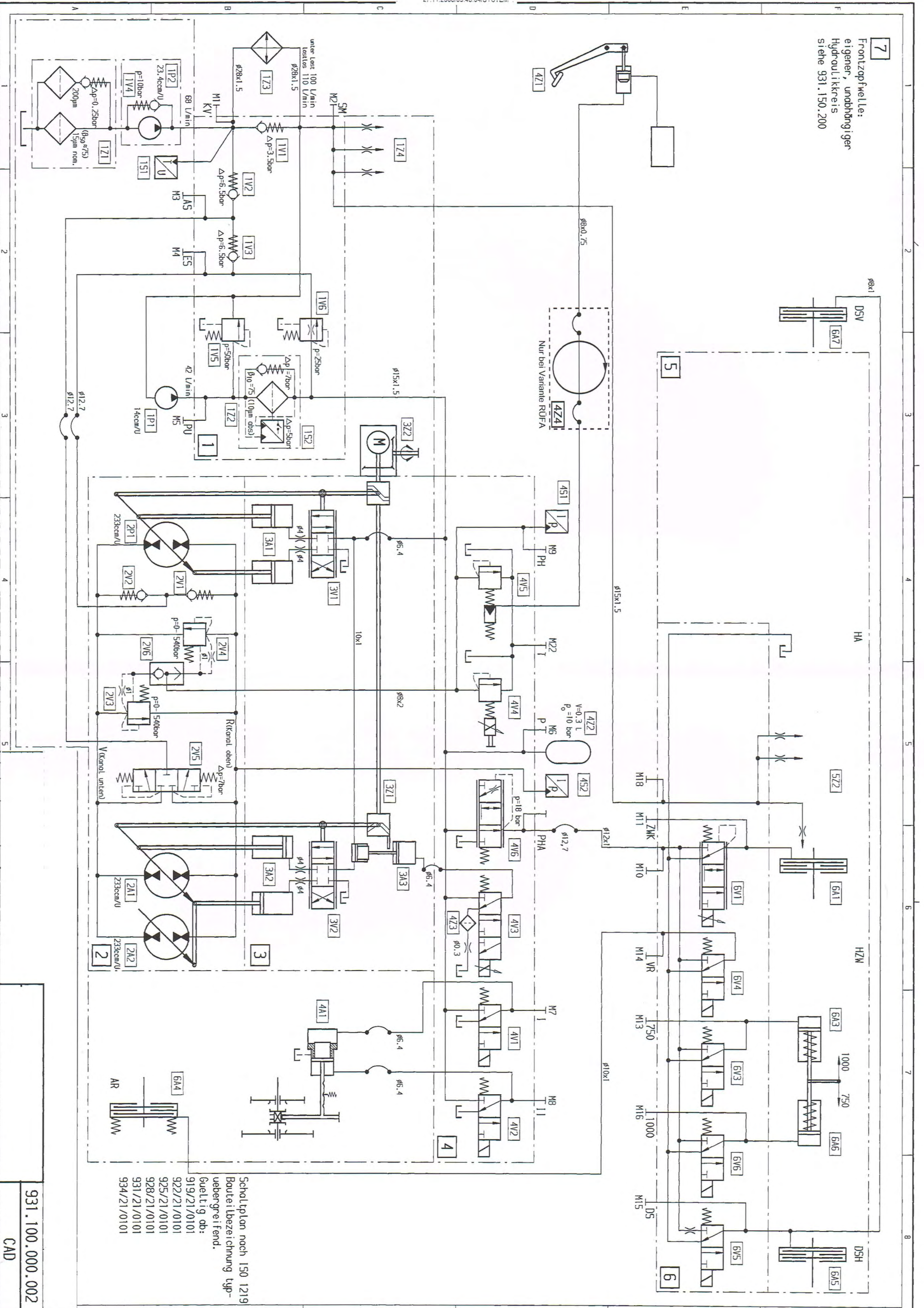
Service-Training
Dokumentation

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4		Valve block, enhanced hydraulics	1V4		Pressure-limiting valve, lubrication
5		Brake and rear axle	1V5		Pressure-limiting valve, servo pump
6		Valve block, rear axle	1V6		Pressure-limiting valve, servo circuit
7		Front PTO	2V1		Feed valve, forward
Pumps:			2V2		Feed valve, reverse
1P1		Servo pump	2V3		High-pressure limiting valve, forward
1P2		Lubrication pump	2V4		High-pressure limiting valve, reverse
2P1		Hydraulic pump	2V5		Purge valve
Drives:			2V6		Shuttle valve
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2A2		Hydraulic motor	3V2		Hydraulic motor governor
3A1		Variable displacement cylinder, hydraulic pump	4V1	Y002	Solenoid valve, travel range 1
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6A3		Selector cylinder, PTO level 1 ⁽¹⁾	4V6		Pressure reducing valve, rear axle
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Buzzers:			6V6	Y027	Solenoid valve, PTO level 2
1S1	B009	Discharge temperature	Measuring points:		
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4S1	B008	Sensor, high-pressure 1	M2		Pressure lubrication
4S2	B039	Sensor, high-pressure 2	M3		Outlet pressure
Other components:			M4		Inlet pressure
1Z1		Suction filter with bypass	M5		Pressure, servo pump
1Z2		Pressure filter with bypass	M6		System pressure, transmission
1Z3		Transmission oil cooler	M7		Switching pressure, travel range 1
1Z4		Transmission lubrication	M8		Switching pressure, travel range 2
3Z1		Actuator shaft	M9		High-pressure
3Z2	A009	Actuator unit	M10		System pressure, rear axle
4Z1		Clutch pedal with sensor cylinder	M11		Pressure, PTO clutch
4Z2		Pressure accumulator	M13		Switching pressure, PTO level 1 ⁽¹⁾
4Z3		Strainer insert	M14		Pressure, 4WD clutch
4Z4		Rotary feedthrough RÜFA	M15		Pressure, differential lock
5Z2		Lubrication, rear PTO	M16		Switching pressure, PTO level 2
			M18		Lubrication pressure, rear axle
			M22		Clutch and turbo-clutch valve leakage

1. Depending on the version, level 1 operates at the following PTO speeds: 540/540 E or 1000 E (1000 E is available from chassis number 9XX/2X/3501 onwards on request).

7
 Frontzapfwelle:
 eigener, unabhängiger
 Hydraulikkreis
 siehe 931.150.200



Schaltplan nach ISO 1219
 Bauteilbezeichnung typ-
 uebergreifend.
 Gueltig ab:
 919/21/0101
 922/21/0101
 925/21/0101
 928/21/0101
 931/21/0101
 934/21/0101

931.100.000.002
 CAD

1 Hydraulic circuit diagram - 931.952.000.002

1.1 [Y074] - Control valve, position 1 (yellow)	1.2 [Y075] - Control valve, position 2 (blue)
1.3 [Y076] - Control valve, position 3 (red)	1.4 [Y078] - Control valve, position 4 (green)
1.5 [Y079] - Control valve, position 5 (brown)	1.6 [Y080] - Control valve, position 6 (purple)
2.1 [Y071] - Control valve, position 7 (olive)	2.2 [Y072] - Control valve, position 8 (grey)

APE - Entry plate for external pressure supply	ASP1 - Accumulator, suspension 1
ASP2 - Accumulator, suspension 2	AVF1 - Lock valve, suspension 1
AVF2 - Lock valve, suspension 2	

BF - Ventilation filter	
--------------------------------	--

DBV1 - Main pressure-limiting valve	DBVF1 - Pressure-limiting valve, suspension 1
DBVF2 - Pressure-limiting valve, suspension 2	DBVKF [Y022] - Field pressure valve, DA front power lift enhanced control
DBVKH [Y062] - Field pressure valve, DA rear power lift	DBV-L - Pressure-limiting valve, 175 bar steering
DFE - Pressure filter, external LS	DFP - Pressure filter, pilot pressure
DFWH - Flow monitor, auxiliary pump	DRVE [Y084] - Pressure cut-off valve, Power Beyond
DRVF [Y064] - Suspension load pressure/lower	DRVP - Pressure cut-off valve, pilot pressure
DS1 - Pressure switch, LS pump monitor	DSF [B063] - Pressure switch, filter monitor
DWKF - Pressure compensator, front power lift, SA	DWL - Pressure compensator, steering
DWP - Pressure compensator, pilot pressure	

EHR Heck [Y077] - Cut-off valve, rear EPC	EHR Front [Y070] - Cut-off valve, front power lift enhanced control
EPH - End plate, rear valve block	EPM - End plate, centre

FKH - Front power lift	FKH Standard - Cut-off valve, standard front power lift
FSP - Front power lift accumulator	FSS [B084] - Level switch

GDR - Silencer, LS pump	
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HKH - Rear power lift	HP - Hand pump, pilot pressure – emergency supply
Hy.ABV - Hydraulic trailer brake	

K - Hydraulic oil cooler	
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LE - Steering unit	
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M1 - Measuring point, emergency pumps	M2 - Measuring point, auxiliary pumps
M3 - Measuring point, LS pump	M4 - Measuring point, LS pressure
M5 - Measuring point, control pressure	M6 - Rear return flow reference pressure measuring point
M7 - Front return flow reference pressure measuring point	MVFF [Y067] - Solenoid valve, lock suspension
MVFH [Y065] - Solenoid valve, raise suspension	MVFW [Y063] - Solenoid valve, wobble stabiliser
MVKF [Y021] - Front pressure compensator lock valve (SA/DA)	MVKFH [Y021] - Lifting solenoid valve (standard front power lift)
MVKFS [Y022] - Lowering solenoid valve (standard front power lift)	MVKH [Y055] - Rear pressure compensator lock valve (SA/DA)
MVL [Y012] - Solenoid valve, charge function (suspension, oil pre-heater)	MVP [Y032] - Solenoid valve, pilot pressure
MVUL [Y082] - Solenoid valve, lower link stabiliser lock	MVVH [Y060] - Solenoid valve, rear pre-heater
MVVM [Y061] - Solenoid valve, central pre-heater	

OETR - Oil temperature regulator	
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PH - Auxiliary pump	PNL - Emergency steering pump
PR - LS pump	PVL - Priority valve, steering

RLF - Return line filter	RVF1 - Non-return valve, suspension 1
RVFH - Non-return valve, raise suspension	RVFS - Non-return valve, lower suspension
RVL1-3 - Non-return valve, steering 1-3	RVN - Non-return valve, emergency steering pump

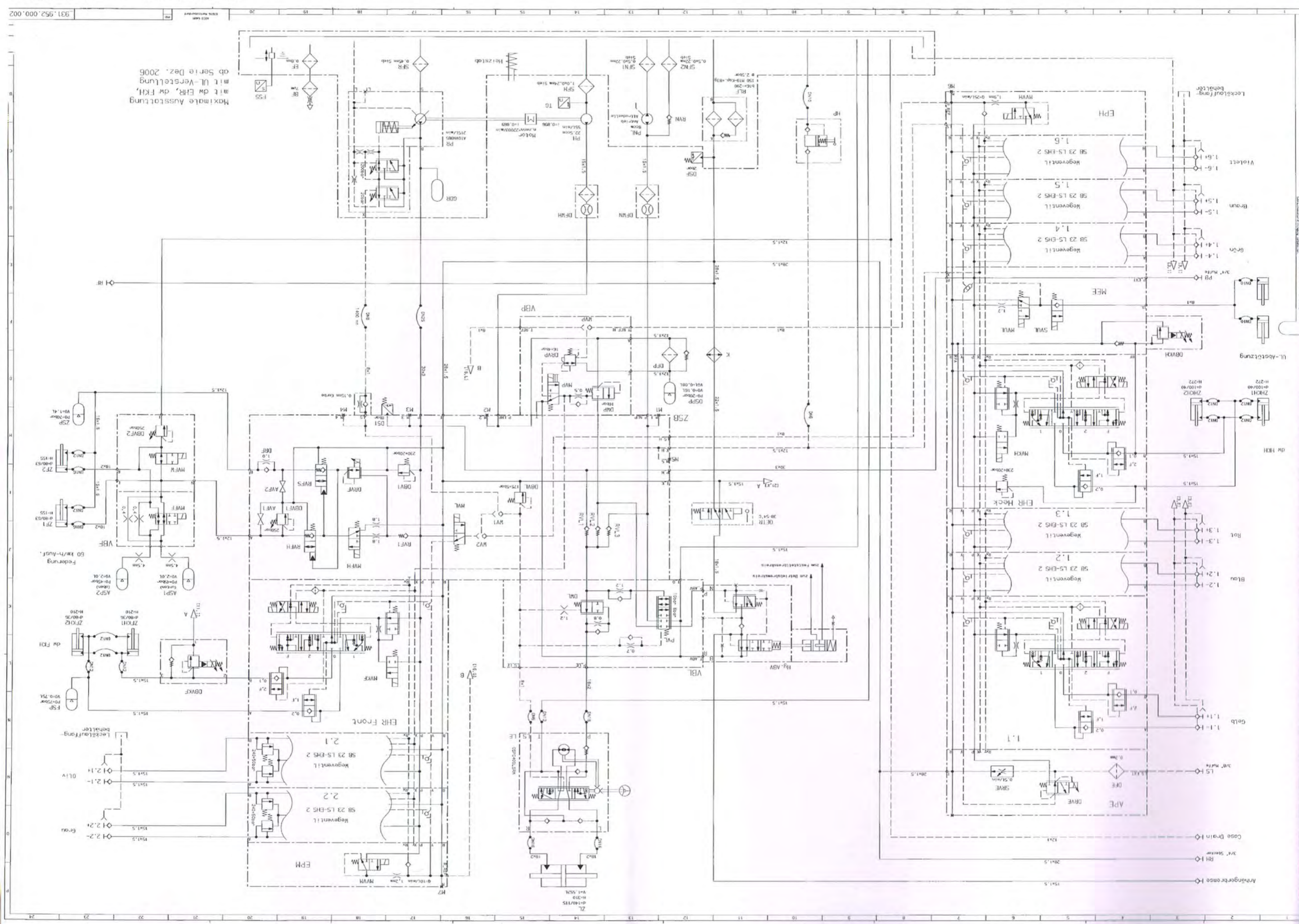
SFH - Auxiliary pump suction filter	SFN1+2 - Suction filter, emergency steering pump 1+2
SFR - Suction filter, LS pump	SRVE - Flow cut-off valve, external LS relief
SVUL [Y083] - Solenoid valve, lower link stabiliser release	

TG [B013] - Temperature sensor	
---------------------------------------	--

VPF - Valve block, suspension	VBL - Valve block, steering
VBP - Valve block, pilot pressure supply	

WV1 - LS shuttle valve 1	WV2 - LS shuttle valve 2
WVP - Shuttle valve, pilot pressure	

ZF1 - Federungszyylinder 1	ZL - Steering cylinder
ZSB - Central control block	ZSP - Auxiliary accumulator, suspension



Maximale Ausleistung mit der EHR, der FKH, mit UL-Verstellung ab Serie Dez. 2006

Lecklauf-Fangbehälter

Lecklauf-Fangbehälter

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1.5 [Y079] - Control valve, position 5 (brown)	1.6 [Y080] - Control valve, position 6 (purple)
2.1 [Y071] - Control valve, position 7 (olive)	2.2 [Y072] - Control valve, position 8 (grey)

APE - Entry plate for external pressure supply	ASP1 - Accumulator, suspension 1
ASP2 - Accumulator, suspension 2	AVF1 - Lock valve, suspension 1
AVF2 - Lock valve, suspension 2	

BF - Ventilation filter	
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DBV1 - Main pressure-limiting valve	DBVF1 - Pressure-limiting valve, suspension 1
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FSP - Front power lift accumulator	FSS [B084] - Level switch

GDR - Silencer, LS pump	
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HKH - Rear power lift	HP - Hand pump, pilot pressure – emergency supply
Hy.ABV - Hydraulic trailer brake	

K - Hydraulic oil cooler	
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LE - Steering unit	
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RLF - Return line filter	RVF1 - Non-return valve, suspension 1
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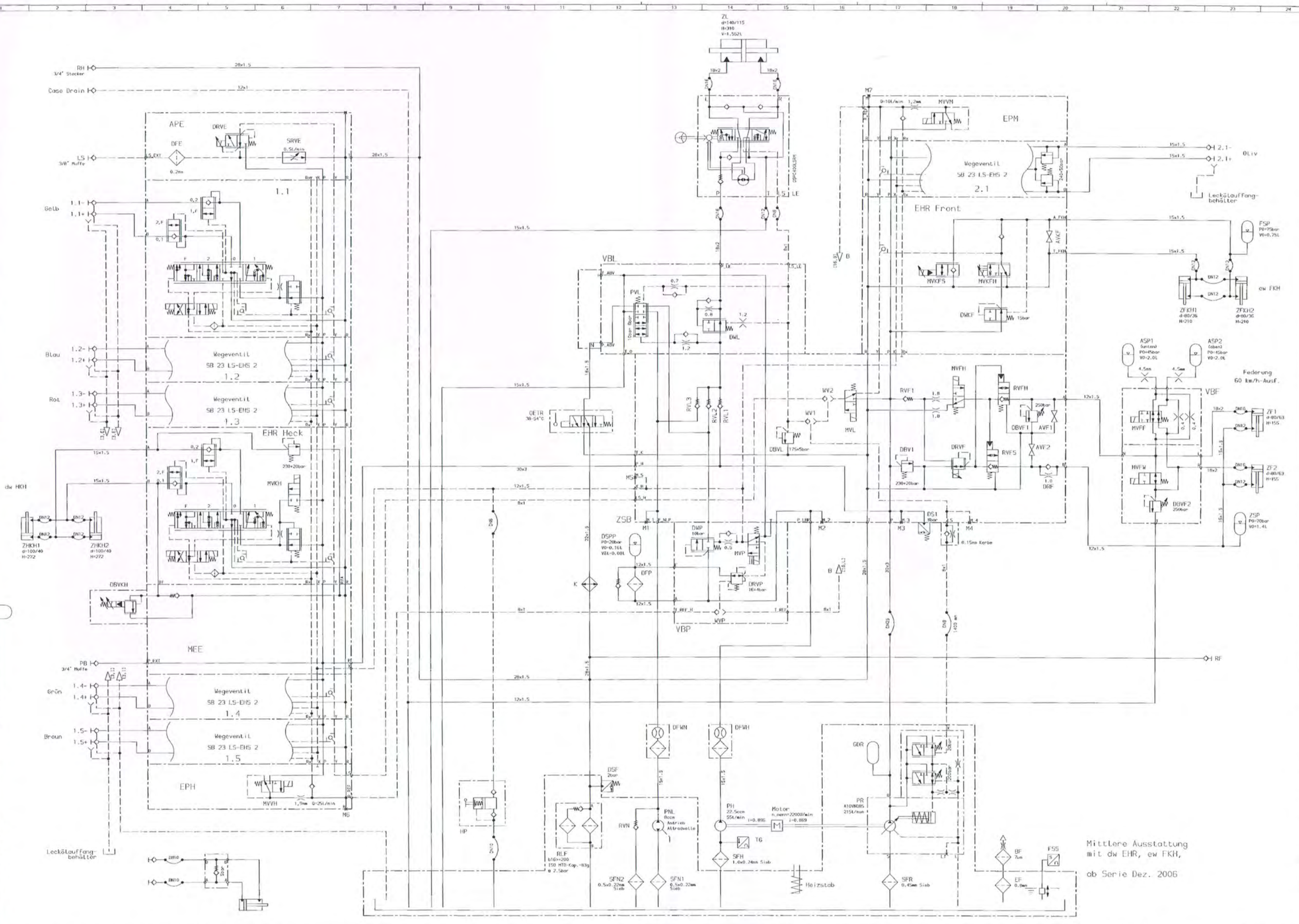
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SVUL [Y083] - Solenoid valve, lower link stabiliser release	

TG [B013] - Temperature sensor	
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VBF - Valve block, suspension	VBL - Valve block, steering
VBP - Valve block, pilot pressure supply	

WV1 - LS shuttle valve 1	WV2 - LS shuttle valve 2
WVP - Shuttle valve, pilot pressure	

ZF1 - Federungszyylinder 1	ZL - Steering cylinder
ZSB - Central control block	ZSP - Auxiliary accumulator, suspension



Mittlere Ausstattung
mit dw EHR, ew FKH,
ab Serie Dez. 2006

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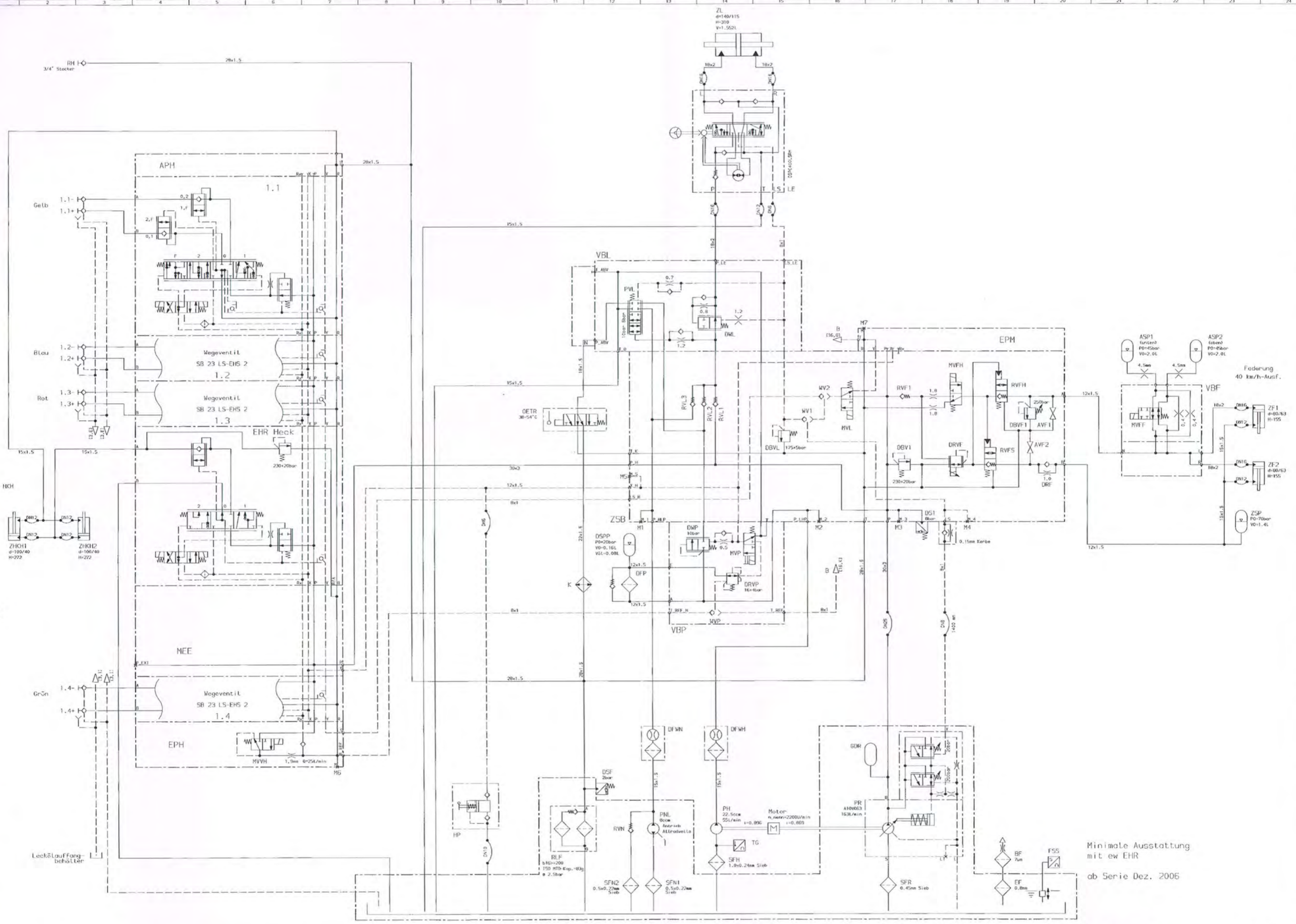
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ZSB - Central control block	ZSP - Auxiliary accumulator, suspension



Minimale Ausstattung
mit ew EHR
ab Serie Dez. 2005

2 Hydraulic circuit diagram (Auto-Guide) - 931.952.000.002

APLE - Connection plate for el.-hyd. steering system
DRVLE - Pilot pressure cut-off valve, el.-hyd. steering system
MVLE1 [Y085] - Solenoid valve, pilot pressure/switch-off (Auto-Guide)
MVLE2 [Y086] - Solenoid valve, steering disconnect (Auto-Guide)
PVLE - Proportional valve, el.-hyd. steering system
VBLE1 - Valve block, el.-hyd. steering system 1
VBLE2 - Valve block, el.-hyd. steering system 2
VLE1 - LE priority valve (oversteering valve)
VLE2+3 - LE switch off 1 + 2 valves
WVLE - LS shuttle valve, el.-hyd. steering system