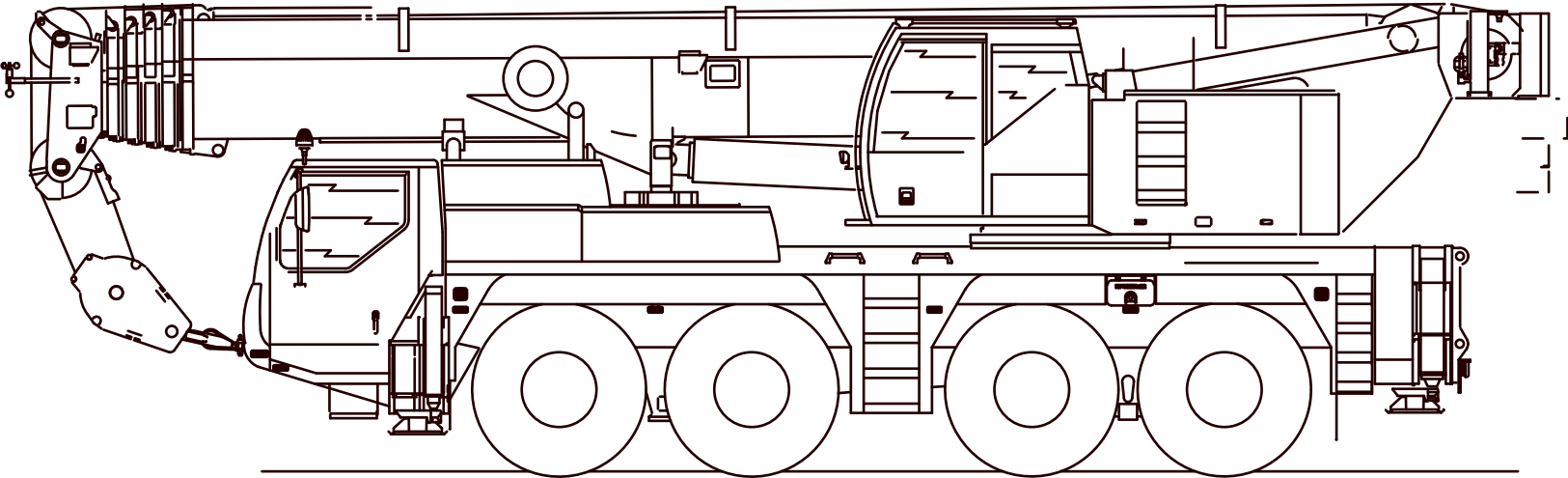


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<div>LTM 1090/3</div> <div>HOIST GEAR I</div> <div>  </div>												A								
												B								
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3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CIRCUIT DIAGRAM SUPERSTRUCTURE				Ident-Nr.	984061308	=	S20					
2				Ausgabe	02.02.06	lwerof0						Zeich-Nr.	3372-932.04.00.001-001	+	S20					
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	Änderung	Datum	Name		Datum	Name	Copyright (c)							von	165					

1	2	3	4	5	6	7	8		
REGISTER OF SHEETS				SHEET	REGISTER OF SHEETS				SHEET
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ACCELERATOR SUPERSTRUCTURE , SPEED ,				55	FOLDING JIB , HOISTING LIMIT SWITCH FOLDING JIB ,				78
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CENTRAL UNIT 1				9	GENERAL OUTLAY HYDRAULICS :				26
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CENTRAL UNIT 2				10	GENERAL OUTLAY HYDRAULICS : BALLASTING /				27
CENTRAL UNIT 2				35	GENERAL OUTLAY LSB1 / CAN BUS				12
CENTRAL UNIT 2 ( VOLTAGE SUPPLY ) ,				63	GENERAL OUTLAY LSB2				13
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3				Gez.	26.01.05	dpl	LIEBHERR WERK EHINGEN	REGISTER OF SHEETS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
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REGISTER OF SHEETS				SHEET	REGISTER OF SHEETS			SHEET
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OPERATING EQUIPMENT				159				
OPERATING EQUIPMENT				160				
OPERATING EQUIPMENT				161				
OPERATING EQUIPMENT				162				
OPERATING EQUIPMENT				163				
OPERATING EQUIPMENT				164				B
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PLUG GROUPING				144				
PLUG GROUPING				145				
PLUG GROUPING				146				C
PLUG GROUPING				147				
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REGISTER OF SHEETS				3				
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3				Gez.	26.01.05	dpl	LIEBHERR WERK EHINGEN	REGISTER OF SHEETS	Ident-Nr.	984061308	=	S20
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3				Gez.	26.01.05	dpl	LIEBHERR WERK EHINGEN		REGISTER OF SHEETS						Ident-Nr.		984061308		=	S20	
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	Änderung	Datum	Name		Datum	Name	Copyright (c)	von							165						

1		2		3		4		5		6		7		8				
FUSE		SHEET		FUNCTION						BMK								
-F1 / 7,5A	45.1	PARKING LIGHT LEFT						-XF1										
-F2 / 7,5A	45.2	PARKING LIGHT RIGHT						-XF1										
-F3 / 30A	45.2	LIGHTING						-XF1										
-F4 / 20A	45.3	IGNITION SWITCH EXCESS PRESSURE						-XF1										
-F5 / 7,5A	45.3	LOW BEAM LEFT						-XF1										
-F6 / 7,5A	45.4	LOW BEAM RIGHT						-XF1										
-F7 / 5A	45.5	POWER PACK , MONITOR , TANK SENSOR , FUEL PREHEATING , WORKING HOUR METER						-XF2										
-F8 / 10A	45.5	I/O-MODULE 6 : OUTLETS / POWER PACK						-XF2										
-F9 / 2A	45.6	SUPPORTING FORCE INDICATOR , I/O-MODULE 3/4 EXCESS PRESSURE						-XF2										
-F10 / 10A	45.7	WORKING PROJECTOR FRONT , SEAT SPRINGING						-XF2										
-F11 / 10A	45.7	WORKING PROJECTOR ROOF CABIN , HEADLIGHT WINCH						-XF2										
-F12 / 10A	45.8	WORKING PROJECTOR BOOM , ACTUATING DRIVE						-XF2										
-F13 / 5A	46.4	INSTRUMENT LIGHTING , MASTER SWITCH , PRESELECTOR CLOCK , CONTROL , EMERGENCY OPERATION						-XF3										
-F14 / 7,5A	46.4	WINDSCREEN WIPER , HIGH-TENSION WARNING						-XF3										
-F15 / 7,5A	46.5	HOOTER , CIRCULATING PUMP HEATING						-XF3										
-F16 / 15A	46.5	FAN CABIN						-XF3										
-F17 / 2A	46.6	LSB 1						-XF3										
-F18 / 2A	46.7	LSB 3						-XF3										
-F19 / 10A	47.1	WORKING PROJECTOR SUPERSTRUCTURE REAR						-XF4										
-F20 / 20A	47.2	FUEL PREHEATING						-XF4										
-F21 / 10A	47.2	FLASHING LIGHT , HEADLIGHT XENON BOOM HEAD , RADIO PREPARATION						-XF4										
-F22 / 15A	47.3	HEADLIGHT XENON BASE SECTION						-XF4										
-F23 / 15A	47.3	HEADLIGHT XENON BASE SECTION						-XF4										
-F24 / 30A	47.4	IGNITION SWITCH SUPERSTRUCTURE						-XF4										
-F25 / 10A	47.5	SOCKET SWITCH CABINET , SOCKET CABIN , READING LAMP						-XF5										
-F26 / 15A	47.5	FAN CABIN						-XF5										
-F27 / 5A	47.6	PLATFORM CABIN , HEATING ELECTRONICS , REAR MIRROR HEATING WINCH , GAS HEATING						-XF5										
-F28 / 10A	47.7	INDOOR LIGHTING , VENTILATOR CABIN , SEAT HEATING						-XF5										
-F29 / 15A	47.7	ENGINE - ELECTRONICS						-XF5										
-F30 / --	47.8	- FREE -						-XF5										
3				Gez.	27.04.04	lweeih0	FUSE GROUPING				Ident-Nr.	984061308		=	S20			
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1		2		3		4		5		6		7		8	
FUSE		SHEET		FUNCTION						BMK					
-F31 / 10A	48.1	POWER PACK , VENTILATOR LICCON , SUPPLY SENSOR						-XF6							
-F32 / 7,5A	48.2	CENTRAL UNIT 0 OUTLETS						-XF6							
-F33 / 7,5A	48.2	CENTRAL UNIT 1 OUTLETS						-XF6							
-F34 / 7,5A	48.3	CENTRAL UNIT 2 OUTLETS						-XF6							
-F35 / 5A	48.3	THERMOSTAT RADIATOR , EMERGENCY OPERATION WITH LICCON , FLASHING LIGHT CABIN						-XF6							
-F36 / 7,5A	48.4	VALVES LOWERING BOOM , AUXILIARY CONSUMERS						-XF6							
-F37 / 5A	48.5	CENTRAL GREASING						-XF7							
-F38 / 20A	48.5	RADIATOR						-XF7							
-F39 / 7,5A	48.6	AIR DRIER						-XF7							
-F40 / 5A	48.7	LSB 2 , VALVE INTERLOCKING						-XF7							
-F41 / 5A	48.7	AIR CONDITIONING EQUIPMENT						-XF7							
-F42 / --	48.8	- FREE -						-XF7							
-F43 / 10A	49.1	POWER PACK , MONITOR						-XF8							
-F44 / 7,5A	49.2	I/O-MODULE 6 POWER PACK						-XF8							
-F45 / 20A	49.2	HEATING HEATER PLUG						-XF8							
-F46 / 5A	49.3	PRESELECTOR CLOCK HEATING , CHARGING SET SENSOR						-XF8							
-F47 / 20A	49.3	CHARGING SET						-XF8							
-F48 / 10A	49.4	RADIO , RADIO , SOCKET 12V						-XF8							
-F49 / 10A	49.5	STARTER EXCESS PRESSURE						-XF9							
-F50 / 10A	49.5	STARTER SUPERSTRUCTURE						-XF9							
-F51 / 10A	49.6	SUPPLY PUMP DOLLY OPERATION						-XF9							
-F52 / --	49.7	- FREE -						-XF9							
-F53 / --	49.7	- FREE -						-XF9							
-F54 / --	49.8	- FREE -						-XF9							

A

B

C

E

F

1	2	3	4	5	6	7	8
E//A		SHEET	FUNCTION		TYPE	PLUG	
E.E6.0					E=0...10V,4...20mA	-X662:17	A
E.E6.1	57.1	ENGINE STOP			E=0...10V,4...20mA	-X662:15	
E.E6.2					E=0...10V,4...20mA	-X662:13	
E.E6.3					E=0...10V,4...20mA	-X662:11	
E.E6.4	57.7	TEMPERATURE HYDRAULIC OIL			E=0...10V	-X662:9	B
E.E6.5	51.4	CHARGE CONTROL EXCESS PRESSURE (UW)			E=0...10V	-X662:7	
E.E6.6	52.7	CHARGE CONTROL SUPERSTRUCTURE (OW)			E=0...10V	-X662:5	
E.E6.7	57.4	TANK SENSOR SIGNAL			E=0...10V	-X662:3	
E.S6.4					A=10mA	-X662:10	B
E.S6.5					A=10mA	-X662:8	
E.S6.6					A=10mA	-X662:6	
E.S6.7	57.3	TANK SENSOR SUPPLY			A=10mA	-X662:4	
E.DE6.0	57.5	AIR CONDITIONING EQUIPMENT ON			E=HIGH>4V/LOW<2V	-X662:18	C
E.DE6.1	51.4	PREHEAT ENGINE EXCESS PRESSURE			E=HIGH>4V/LOW<2V	-X662:16	
E.DE6.2	44.7	CHANGE OVER 15OW			E=HIGH>4V/LOW<2V	-X662:14	
E.DE6.3	52.7	FLAMME STARTING DEVICE TELLTALE LIGT OW			E=HIGH>4V/LOW<2V	-X662:12	
E.VCCEA6.1					-	-X661:11	C
E.VCCEA6.2	60.3	OPERATING VOLTAGE			-	-X661:9	
E.DEA6.0	51.4	CHARGE CONTROL EXCESS PRESSURE (UW)			E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:17	
E.DEA6.1	52.7	CHARGE CONTROL SUPERSTRUCTURE (OW)			E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:15	
E.DEA6.2	51.4	FLAMME STARTING DEVICE TELLTALE LIGT UW			E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:13	E
E.DEA6.3	52.7	FLAMME STARTING DEVICE TELLTALE LIGT OW			E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:11	
E.DEA6.4					E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:9	
E.DEA6.5					E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:7	
E.DEA6.6					E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:5	F
E.DEA6.7					E=HIGH>4V/LOW<2V(A=24V/2A)	-X663:3	
E.VCCA6.0	60.2	OPERATING VOLTAGE			-	-X661:1	
E.VCCA6.1					-	-X661:3	
E.VCCA6.2					-	-X661:5	
E.VCCA6.3	60.4	OPERATING VOLTAGE			-	-X661:7	
E.A6.0					A=24V/8A	-X663:18	F
E.A6.1					A=24V/8A	-X663:16	
E.A6.2	57.6	VENTILATION FLAP			A=24V/8A	-X663:14	
E.A6.3	57.5	RADIATOR			A=24V/8A	-X663:12	
E.GNDMESS6.1					E=0...10A	-X661:18	

3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	I/O-MODULE 6 DISPOSITION	Ident-Nr. 984061308	=	S20
2			Ausgabe	02.02.06	lwerof0				+	S20
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E//A		SHEET		FUNCTION				TYPE		PLUG					
E0.0				ACCELERATOR POSITION VEHICLE				A/D		-X635:d2					
E0.1								A/D		-X635:d4					
E0.2	115.2							A/D		-X635:d6					
E0.3								A/D		-X635:d8					
E0.4								A/D		-X635:d10					
E0.5	119.2							A/D		-X635:d12					
E0.6	119.3							A/D		-X635:d14					
E0.7	65.2							A/D		-X635:d16					
E0.8	118.2							A/D		-X635:d18					
E0.9	118.3							A/D		-X635:d20					
E0.10	117.1							A/D		-X635:d22					
E0.11	117.2							A/D		-X635:d24					
E0.12	51.3							A/D		-X635:d26					
E0.13	117.3							A/D		-X635:d28					
E0.14	120.2							A/D		-X635:d30					
E0.15	120.3			A/D		-X635:d32									
E1.0	115.3			PARKING BRAKE VEHICLE				A/D		-X635:b2					
E1.1	100.3			EMERGENCY OPERATION WITH LICCON				A/D		-X635:b4					
E1.2	116.4			STEERING CHANGE-OVER				A/D		-X635:b6					
E1.3	86.5			SETTING SWITCH WINCH 1				A/D		-X635:b8					
E1.4	88.4			SETTING SWITCH WINCH 2 ( OPTION )				A/D		-X635:b10					
E1.5	100.3			BRIDGING SLI / TOP OF LIFT				A/D		-X635:b12					
E1.6	100.2			ERECTION				A/D		-X635:b14					
E1.7	102.1			EMERGENCY OPERATION WITHOUT LICCON				A/D		-X635:b16					
E1.8	105.5			SUPERSTRUCTURE INTERLOCKED AFTER REAR				A/D		-X635:b18					
E1.9	89.5			LUFFING AT OVERLOAD				A/D		-X635:b20					
E1.10								A/D		-X635:b22					
E1.11	100.1			ACKNOWLEDGEMENT SAFETY CHAIN				A/D		-X635:b24					
E1.12	105.4			SUPERSTRUCTURE INTERLOCKED				A/D		-X635:b26					
E1.13	105.3			SUPERSTRUCTURE UNLOCKED				A/D		-X635:b28					
E1.14	82.6			SEAT CONTACT				A/D		-X635:b30					
E1.15	97.7			PARKING BRAKE SWING				A/D		-X635:b32					
INK0.A										-X635:z2					
INK0.B										-X635:z4					
INK1.A										-X635:z6					
INK1.B										-X635:z8					
A0.0	98.3			SLI CUTOFF				A/D		-X70:16					
A0.1	98.4			SLI PRE-WARNING ( OPTION )				A/D		-X70:17					
A0.2	91.1			INITIAL TENSION RING AREA ( CYLINDER RETRACT )				A/D		-X70:18					
A0.3	97.5			FREE / SLEWING GEAR FREELY TURNING				A/D		-X70:19					
A0.4	90.7			FOLDING JIB LUFFING				A/D		-X70:20					
A0.5	97.4			SW NG BRAKE / PARKING BRAKE				A/D		-X70:21					
A0.6	97.2			SW NG RIGHT				A/D		-X70:22					
A0.7	97.1			SW NG LEFT				A/D		-X70:23					

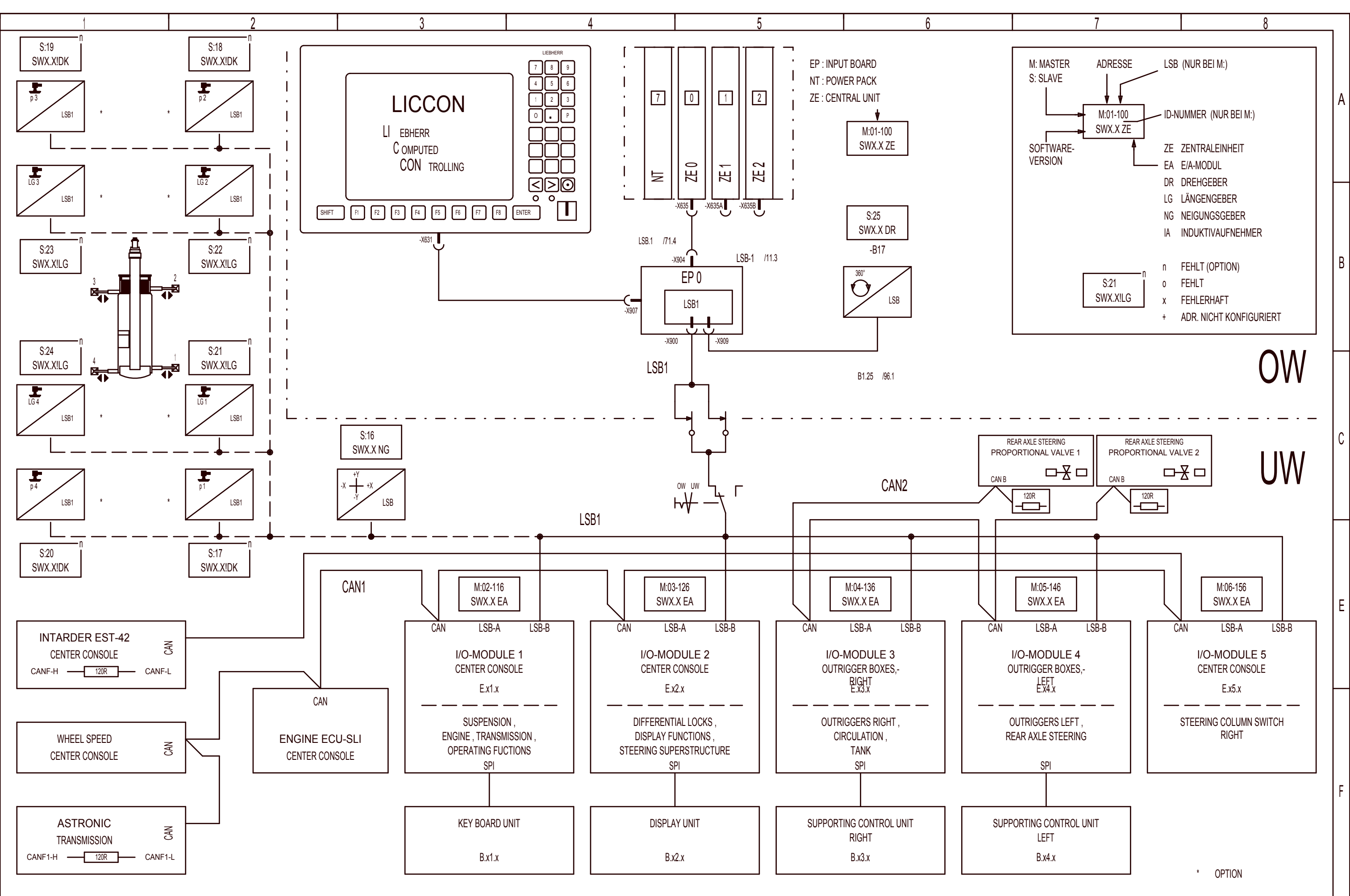
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2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	8
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1		2		3		4		5		6		7		8				
E//A		SHEET		FUNCTION				TYPE		PLUG								
E2.0								A/D		-X635A:d2								
E2.1								A/D		-X635A:d4								
E2.2								A/D		-X635A:d6								
E2.3								A/D		-X635A:d8								
E2.4								A/D		-X635A:d10								
E2.5								A/D		-X635A:d12								
E2.6								A/D		-X635A:d14								
E2.7								A/D		-X635A:d16								
E2.8								A/D		-X635A:d18								
E2.9								A/D		-X635A:d20								
E2.10								A/D		-X635A:d22								
E2.11								A/D		-X635A:d24								
E2.12								A/D		-X635A:d26								
E2.13								A/D		-X635A:d28								
E2.14								A/D		-X635A:d30								
E2.15								A/D		-X635A:d32								
E3.0								A/D		-X635A:b2								
E3.1								A/D		-X635A:b4								
E3.2								A/D		-X635A:b6								
E3.3								A/D		-X635A:b8								
E3.4								A/D		-X635A:b10								
E3.5								A/D		-X635A:b12								
E3.6								A/D		-X635A:b14								
E3.7								A/D		-X635A:b16								
E3.8								A/D		-X635A:b18								
E3.9								A/D		-X635A:b20								
E3.10								A/D		-X635A:b22								
E3.11								A/D		-X635A:b24								
E3.12								A/D		-X635A:b26								
E3.13								A/D		-X635A:b28								
E3.14								A/D		-X635A:b30								
E3.15								A/D		-X635A:b32								
INK2.A		96.4		SLEWING GEAR								-X635A:z2						
INK2.B		96.4		SLEWING GEAR								-X635A:z4						
INK3.A										-X635A:z6								
INK3.B										-X635A:z8								
A2.0		92.3		TELESC. SECTION X		UNBOLTING				A/D		-X71:16						
A2.1		92.4		CYLINDER		UNBOLTING				A/D		-X71:17						
A2.2		91.6		PRESSURE STAGE		Y11				A/D		-X71:18						
A2.3		91.7		PRESSURE STAGE		Y12				A/D		-X71:19						
A2.4		87.5		HOIST GEAR 1		BRAKE				A/D		-X71:20						
A2.5		88.8		HOIST GEAR 2		BRAKE ( OPTION )				A/D		-X71:21						
A2.6		91.4		TELESCOPING OUT						A/D		-X71:22						
A2.7		91.4		TELESCOPING IN						A/D		-X71:23						
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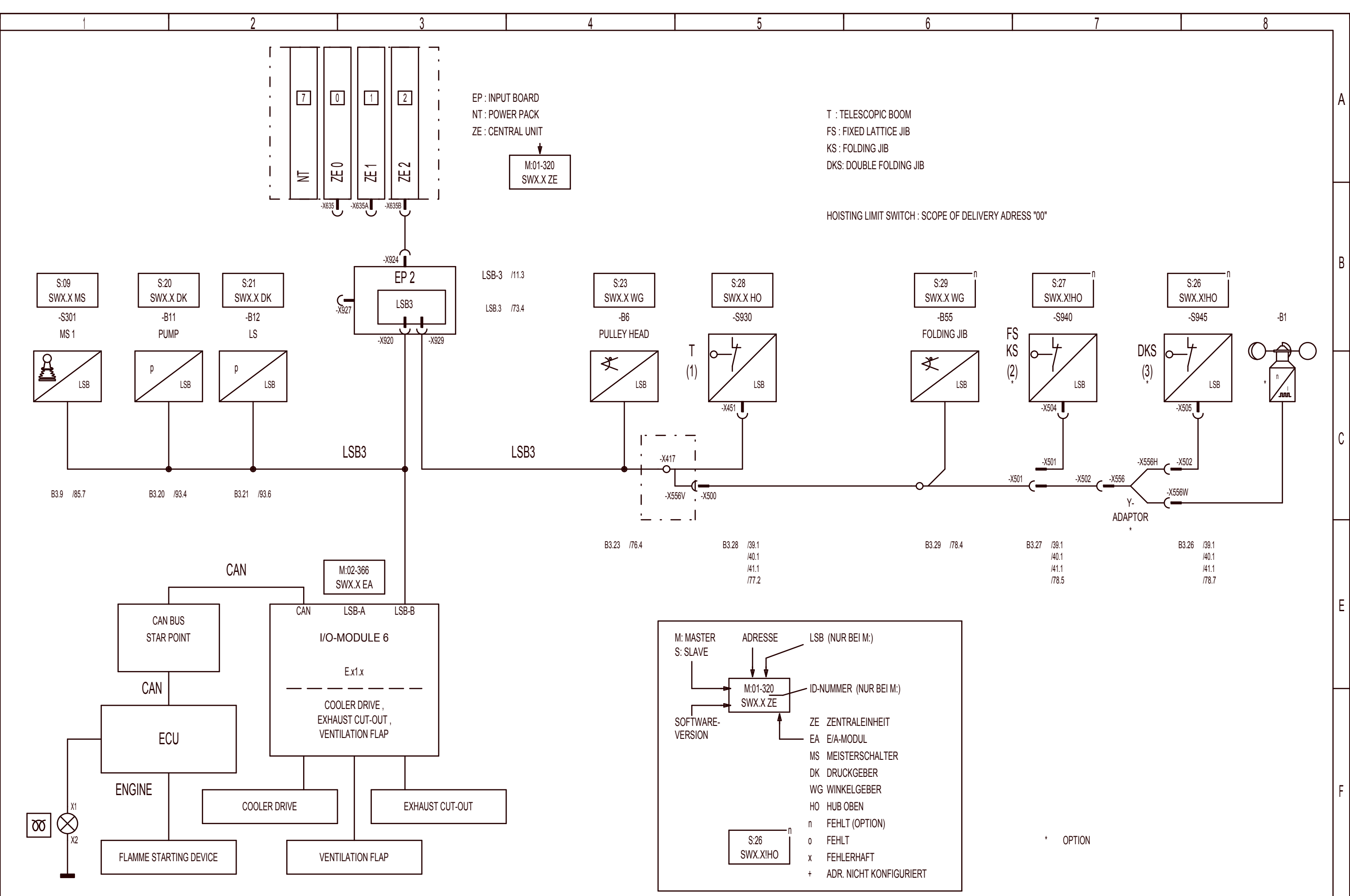
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<table><tr><td colspan="2">E//A</td><td colspan="2">SHEET</td><td colspan="4">FUNCTION</td><td colspan="2">TYPE</td><td colspan="2">PLUG</td><td colspan="2"></td></tr><tr><td colspan="2">E4.0</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d2</td><td colspan="2"></td></tr><tr><td colspan="2">E4.1</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d4</td><td colspan="2"></td></tr><tr><td colspan="2">E4.2</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d6</td><td colspan="2"></td></tr><tr><td colspan="2">E4.3</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d8</td><td colspan="2"></td></tr><tr><td colspan="2">E4.4</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d10</td><td colspan="2"></td></tr><tr><td colspan="2">E4.5</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d12</td><td colspan="2"></td></tr><tr><td colspan="2">E4.6</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d14</td><td colspan="2"></td></tr><tr><td colspan="2">E4.7</td><td colspan="2">106.1</td><td colspan="4">BALLAST DOWN ( PUSH-BUTTON SWITCH )</td><td colspan="2">A/D</td><td colspan="2">-X635B:d16</td><td colspan="2"></td></tr><tr><td colspan="2">E4.8</td><td colspan="2">106.2</td><td colspan="4">BALLAST UP ( PUSH-BUTTON SWITCH )</td><td colspan="2">A/D</td><td colspan="2">-X635B:d18</td><td colspan="2"></td></tr><tr><td colspan="2">E4.9</td><td colspan="2">106.7</td><td colspan="4">BALLASTING RAM NOT BOTTOM</td><td colspan="2">A/D</td><td colspan="2">-X635B:d20</td><td colspan="2"></td></tr><tr><td colspan="2">E4.10</td><td colspan="2">106.8</td><td colspan="4">BALLASTING RAM TOP / BOTTOM</td><td colspan="2">A/D</td><td colspan="2">-X635B:d22</td><td colspan="2"></td></tr><tr><td colspan="2">E4.11</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d24</td><td colspan="2"></td></tr><tr><td colspan="2">E4.12</td><td colspan="2">89.4</td><td colspan="4">PRESELECTION FOLDING JIB LUFFING</td><td colspan="2">A/D</td><td colspan="2">-X635B:d26</td><td colspan="2"></td></tr><tr><td colspan="2">E4.13</td><td colspan="2">98.1</td><td colspan="4">ACUSTICAL WARNING " OFF " ( PUSH-BUTTON SWITCH )</td><td colspan="2">A/D</td><td colspan="2">-X635B:d28</td><td colspan="2"></td></tr><tr><td colspan="2">E4.14</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:d30</td><td colspan="2"></td></tr><tr><td colspan="2">E4.15</td><td colspan="2">89.3</td><td colspan="4">PRESELECTION LUFFING</td><td colspan="2">A/D</td><td colspan="2">-X635B:d32</td><td colspan="2"></td></tr><tr><td colspan="2">E5.0</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b2</td><td colspan="2"></td></tr><tr><td colspan="2">E5.1</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b4</td><td colspan="2"></td></tr><tr><td colspan="2">E5.2</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b6</td><td colspan="2"></td></tr><tr><td colspan="2">E5.3</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b8</td><td colspan="2"></td></tr><tr><td colspan="2">E5.4</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b10</td><td colspan="2"></td></tr><tr><td colspan="2">E5.5</td><td colspan="2">101.5</td><td colspan="4">CYLINDER AT POSITION</td><td colspan="2">A/D</td><td colspan="2">-X635B:b12</td><td colspan="2"></td></tr><tr><td colspan="2">E5.6</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b14</td><td colspan="2"></td></tr><tr><td colspan="2">E5.7</td><td colspan="2">101.3</td><td colspan="4">CYLINDER UNBOLTING ( SWITCH )</td><td colspan="2">A/D</td><td colspan="2">-X635B:b16</td><td colspan="2"></td></tr><tr><td colspan="2">E5.8</td><td colspan="2">101.4</td><td colspan="4">TELESC. SECTION UNBOLTING ( SWITCH )</td><td colspan="2">A/D</td><td colspan="2">-X635B:b18</td><td colspan="2"></td></tr><tr><td colspan="2">E5.9</td><td colspan="2">86.1</td><td colspan="4">PRESSURE SWITCH HOIST GEAR 1 FREE</td><td colspan="2">A/D</td><td colspan="2">-X635B:b20</td><td colspan="2"></td></tr><tr><td colspan="2">E5.10</td><td colspan="2">88.1</td><td colspan="4">PRESSURE SWITCH HOIST GEAR 2 FREE ( OPTION )</td><td colspan="2">A/D</td><td colspan="2">-X635B:b22</td><td colspan="2"></td></tr><tr><td colspan="2">E5.11</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b24</td><td colspan="2"></td></tr><tr><td colspan="2">E5.12</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b26</td><td colspan="2"></td></tr><tr><td colspan="2">E5.13</td><td colspan="2">86.4</td><td colspan="4">WINCH 1 NOT UNWOUND</td><td colspan="2">A/D</td><td colspan="2">-X635B:b28</td><td colspan="2"></td></tr><tr><td colspan="2">E5.14</td><td colspan="2"></td><td colspan="4"></td><td colspan="2">A/D</td><td colspan="2">-X635B:b30</td><td colspan="2"></td></tr><tr><td colspan="2">E5.15</td><td colspan="2">88.3</td><td colspan="4">WINCH 2 NOT UNWOUND ( OPTION )</td><td colspan="2">A/D</td><td colspan="2">-X635B:b32</td><td colspan="2"></td></tr><tr><td colspan="2">INK4.A</td><td colspan="2">86.3</td><td colspan="4">WINCH 1</td><td colspan="2"> </td><td colspan="2">-X635B:z2</td><td colspan="2"></td></tr><tr><td colspan="2">INK4.B</td><td colspan="2">86.3</td><td colspan="4">WINCH 1</td><td colspan="2"> </td><td colspan="2">-X635B:z4</td><td colspan="2"></td></tr><tr><td colspan="2">INK5.A</td><td colspan="2">88.3</td><td colspan="4">WINCH 2 ( OPTION )</td><td colspan="2"> </td><td colspan="2">-X635B:z6</td><td colspan="2"></td></tr><tr><td colspan="2">INK5.B</td><td colspan="2">88.2</td><td colspan="4">WINCH 2 ( OPTION )</td><td colspan="2"> </td><td colspan="2">-X635B:z8</td><td colspan="2"></td></tr><tr><td colspan="2">A4.0</td><td colspan="2">87.2</td><td colspan="4">HOIST GEAR 1 HOISTING</td><td colspan="2">A/D</td><td colspan="2">-X72:16</td><td colspan="2"></td></tr><tr><td colspan="2">A4.1</td><td colspan="2">87.3</td><td colspan="4">HOIST GEAR 1 LOWERING</td><td colspan="2">A/D</td><td colspan="2">-X72:17</td><td colspan="2"></td></tr><tr><td colspan="2">A4.2</td><td colspan="2">88.5</td><td colspan="4">HOIST GEAR 2 HOISTING ( OPTION )</td><td colspan="2">A/D</td><td colspan="2">-X72:18</td><td colspan="2"></td></tr><tr><td colspan="2">A4.3</td><td colspan="2">88.6</td><td colspan="4">HOIST GEAR 2 LOWERING ( OPTION )</td><td colspan="2">A/D</td><td colspan="2">-X72:19</td><td colspan="2"></td></tr><tr><td colspan="2">A4.4</td><td colspan="2">90.3</td><td colspan="4">LUFFING</td><td colspan="2">A/D</td><td colspan="2">-X72:20</td><td colspan="2"></td></tr><tr><td colspan="2">A4.5</td><td colspan="2">90.4</td><td colspan="4">LOWERING BOOM</td><td colspan="2">A/D</td><td colspan="2">-X72:21</td><td colspan="2"></td></tr><tr><td colspan="2">A4.6</td><td colspan="2">94.4</td><td colspan="4">PUMP 1</td><td colspan="2">A/D</td><td colspan="2">-X72:22</td><td colspan="2"></td></tr><tr><td colspan="2">A4.7</td><td colspan="2">94.5</td><td colspan="4">PUMP 2</td><td colspan="2">A/D</td><td colspan="2">-X72:23</td><td colspan="2"></td></tr></table>																E//A		SHEET		FUNCTION				TYPE		PLUG				E4.0								A/D		-X635B:d2				E4.1								A/D		-X635B:d4				E4.2								A/D		-X635B:d6				E4.3								A/D		-X635B:d8				E4.4								A/D		-X635B:d10				E4.5								A/D		-X635B:d12				E4.6								A/D		-X635B:d14				E4.7		106.1		BALLAST DOWN ( PUSH-BUTTON SWITCH )				A/D		-X635B:d16				E4.8		106.2		BALLAST UP ( PUSH-BUTTON SWITCH )				A/D		-X635B:d18				E4.9		106.7		BALLASTING RAM NOT BOTTOM				A/D		-X635B:d20				E4.10		106.8		BALLASTING RAM TOP / BOTTOM				A/D		-X635B:d22				E4.11								A/D		-X635B:d24				E4.12		89.4		PRESELECTION FOLDING JIB LUFFING				A/D		-X635B:d26				E4.13		98.1		ACUSTICAL WARNING " OFF " ( PUSH-BUTTON SWITCH )				A/D		-X635B:d28				E4.14								A/D		-X635B:d30				E4.15		89.3		PRESELECTION LUFFING				A/D		-X635B:d32				E5.0								A/D		-X635B:b2				E5.1								A/D		-X635B:b4				E5.2								A/D		-X635B:b6				E5.3								A/D		-X635B:b8				E5.4								A/D		-X635B:b10				E5.5		101.5		CYLINDER AT POSITION				A/D		-X635B:b12				E5.6								A/D		-X635B:b14				E5.7		101.3		CYLINDER UNBOLTING ( SWITCH )				A/D		-X635B:b16				E5.8		101.4		TELESC. SECTION UNBOLTING ( SWITCH )				A/D		-X635B:b18				E5.9		86.1		PRESSURE SWITCH HOIST GEAR 1 FREE				A/D		-X635B:b20				E5.10		88.1		PRESSURE SWITCH HOIST GEAR 2 FREE ( OPTION )				A/D		-X635B:b22				E5.11								A/D		-X635B:b24				E5.12								A/D		-X635B:b26				E5.13		86.4		WINCH 1 NOT UNWOUND				A/D		-X635B:b28				E5.14								A/D		-X635B:b30				E5.15		88.3		WINCH 2 NOT UNWOUND ( OPTION )				A/D		-X635B:b32				INK4.A		86.3		WINCH 1						-X635B:z2				INK4.B		86.3		WINCH 1						-X635B:z4				INK5.A		88.3		WINCH 2 ( OPTION )						-X635B:z6				INK5.B		88.2		WINCH 2 ( OPTION )						-X635B:z8				A4.0		87.2		HOIST GEAR 1 HOISTING				A/D		-X72:16				A4.1		87.3		HOIST GEAR 1 LOWERING				A/D		-X72:17				A4.2		88.5		HOIST GEAR 2 HOISTING ( OPTION )				A/D		-X72:18				A4.3		88.6		HOIST GEAR 2 LOWERING ( OPTION )				A/D		-X72:19				A4.4		90.3		LUFFING				A/D		-X72:20				A4.5		90.4		LOWERING BOOM				A/D		-X72:21				A4.6		94.4		PUMP 1				A/D		-X72:22				A4.7		94.5		PUMP 2				A/D		-X72:23			
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E5.4								A/D		-X635B:b10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.5		101.5		CYLINDER AT POSITION				A/D		-X635B:b12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.6								A/D		-X635B:b14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.7		101.3		CYLINDER UNBOLTING ( SWITCH )				A/D		-X635B:b16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.8		101.4		TELESC. SECTION UNBOLTING ( SWITCH )				A/D		-X635B:b18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.9		86.1		PRESSURE SWITCH HOIST GEAR 1 FREE				A/D		-X635B:b20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.10		88.1		PRESSURE SWITCH HOIST GEAR 2 FREE ( OPTION )				A/D		-X635B:b22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.11								A/D		-X635B:b24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.12								A/D		-X635B:b26																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.13		86.4		WINCH 1 NOT UNWOUND				A/D		-X635B:b28																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.14								A/D		-X635B:b30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
E5.15		88.3		WINCH 2 NOT UNWOUND ( OPTION )				A/D		-X635B:b32																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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INK5.A		88.3		WINCH 2 ( OPTION )						-X635B:z6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
INK5.B		88.2		WINCH 2 ( OPTION )						-X635B:z8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.0		87.2		HOIST GEAR 1 HOISTING				A/D		-X72:16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.1		87.3		HOIST GEAR 1 LOWERING				A/D		-X72:17																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.2		88.5		HOIST GEAR 2 HOISTING ( OPTION )				A/D		-X72:18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.3		88.6		HOIST GEAR 2 LOWERING ( OPTION )				A/D		-X72:19																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.4		90.3		LUFFING				A/D		-X72:20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.5		90.4		LOWERING BOOM				A/D		-X72:21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.6		94.4		PUMP 1				A/D		-X72:22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
A4.7		94.5		PUMP 2				A/D		-X72:23																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CENTRAL UNIT 2	Ident-Nr.	984061308	=	S20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.		+	S20																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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	Änderung	Datum	Name		Datum	Name	Copyright (c)			3372-932.04.00.001-001	von	165																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									



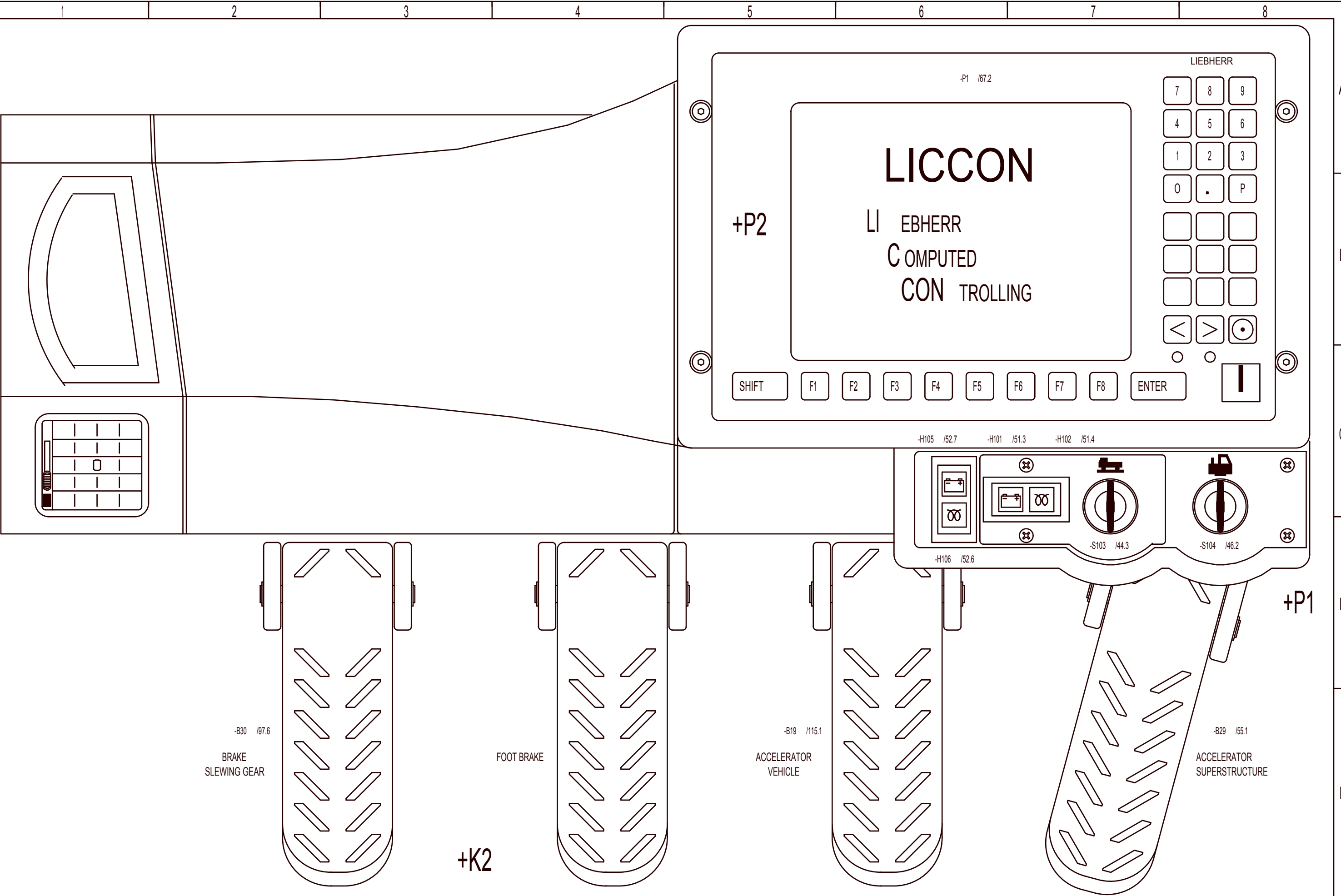


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY LSB1 / CAN BUS  LTM 1090/3	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
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	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	

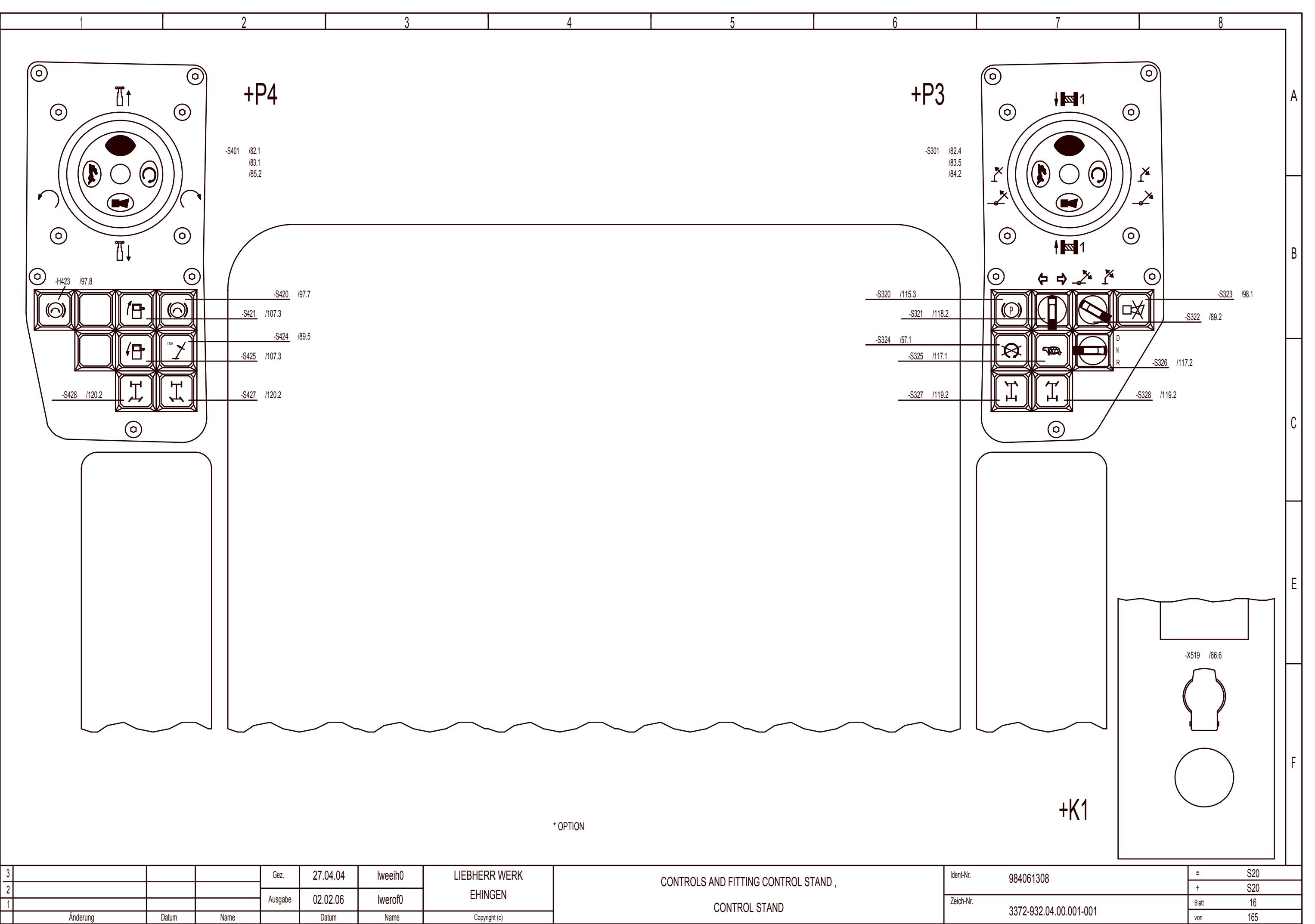




3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY LSB3 / CAN BUS  LTM 1090/3	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
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	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



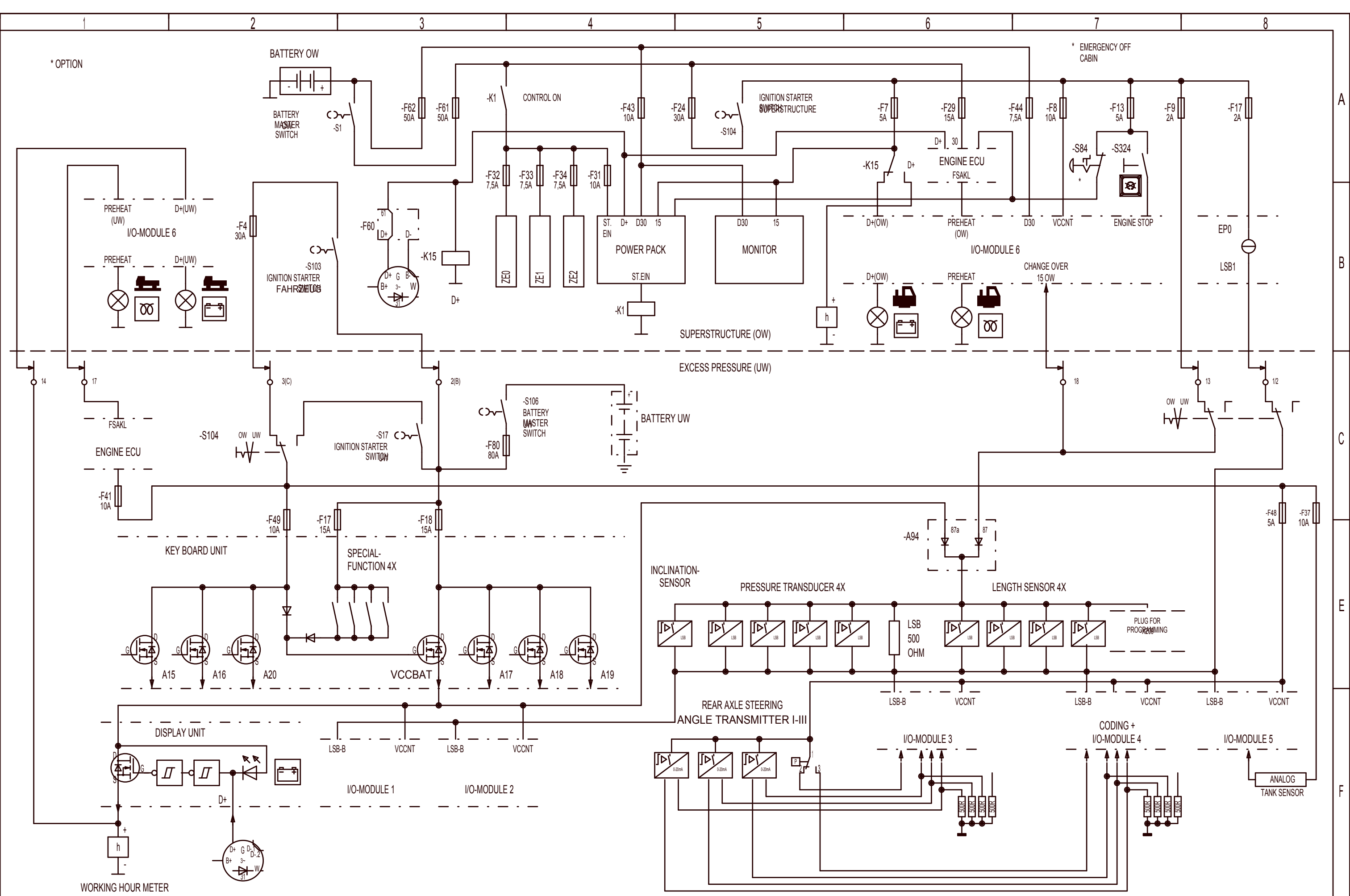
			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CONTROLS AND FITTING , MONITOR ,  DASHBOARD FRONT	Ident-Nr.	984061308	=	S20
			Ausgabe	02.02.06	lwerof0			+	S20		
								Zeich-Nr.	3372-932.04.00.001-001	Blatt	15
Änderung	Datum	Name		Datum	Name			Copyright (c)		3372-932.04.00.001-001	von



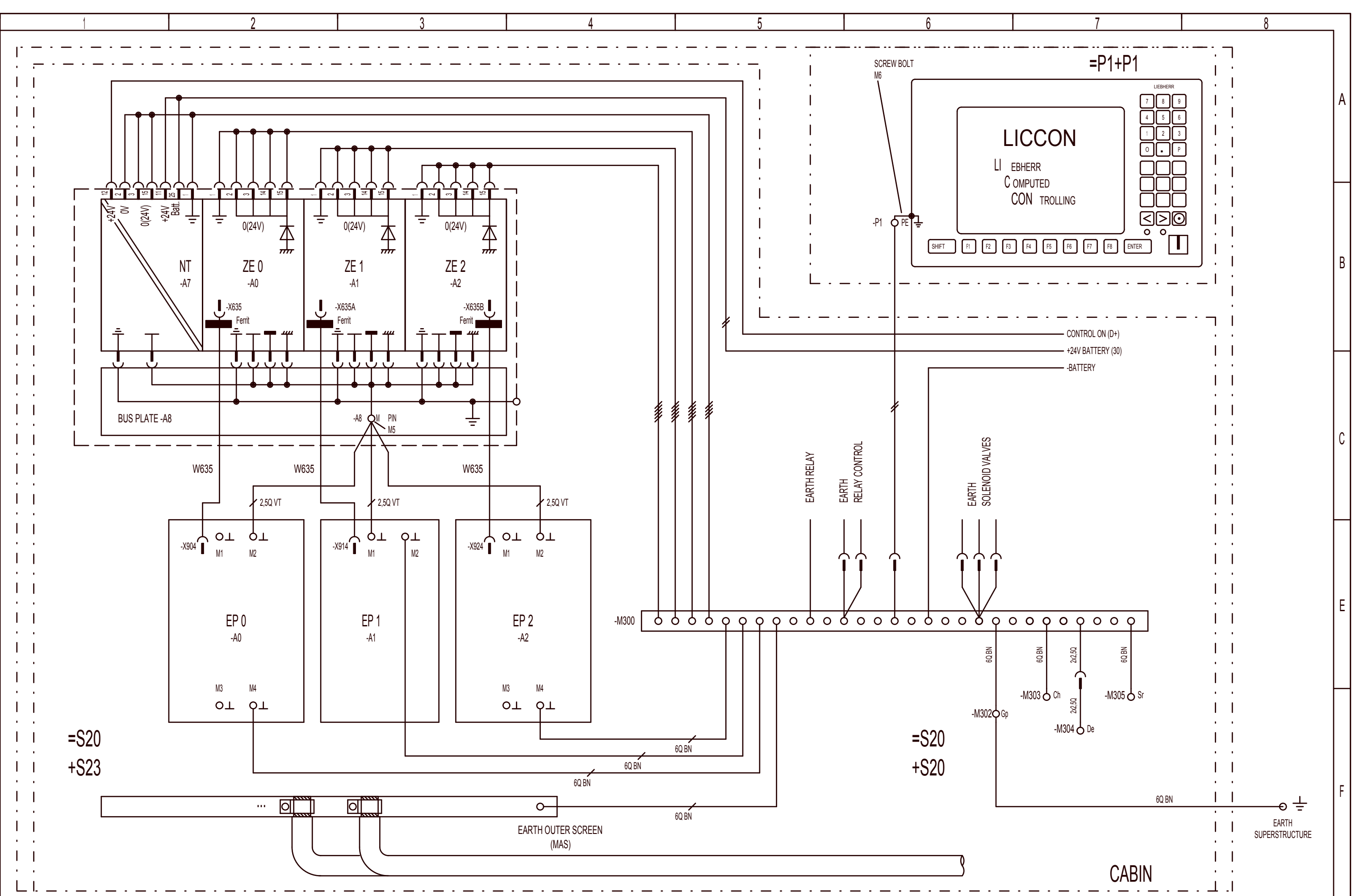
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CONTROLS AND FITTING CONTROL STAND ,  CONTROL STAND	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	16
	Änderung	Datum	Name		Datum	Name	Copyright (c)				3372-932.04.00.001-001	von



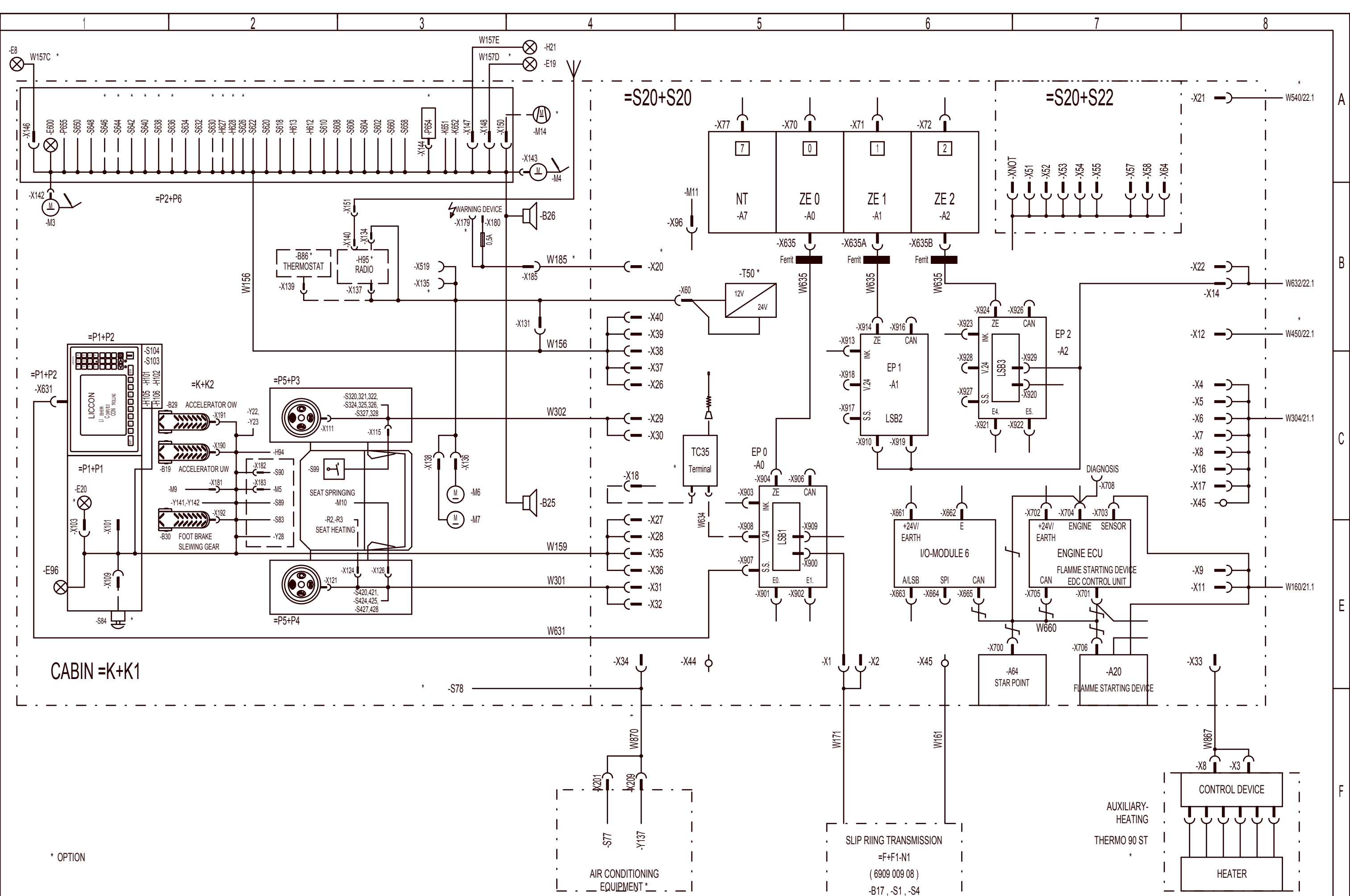




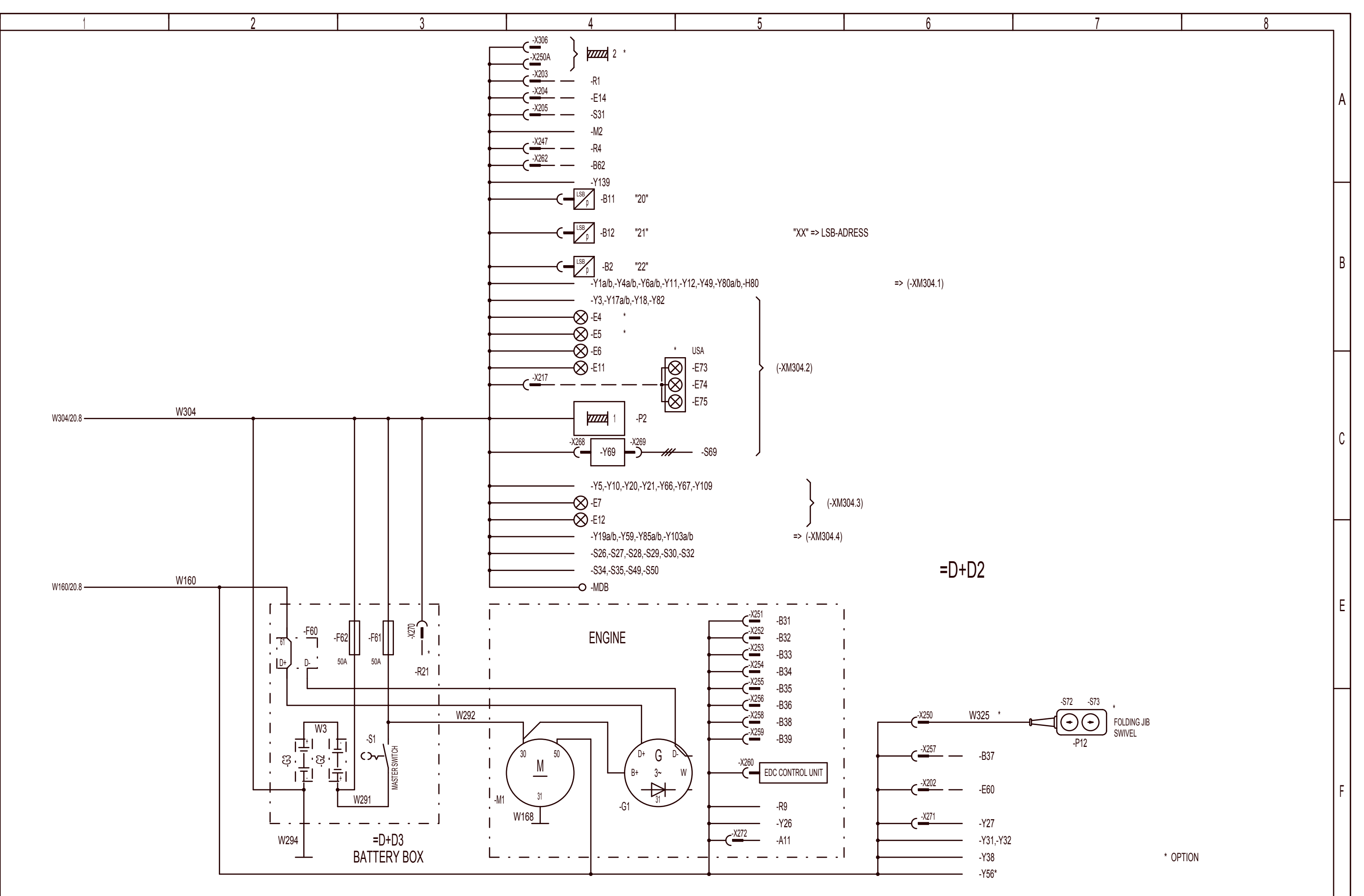
3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY SUPERSTRUCTURE / EXCESS PRESSURE  LTM 1090/3 ( 15 / D+ / LSB )	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerofo			+	S20		
1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	18
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165		



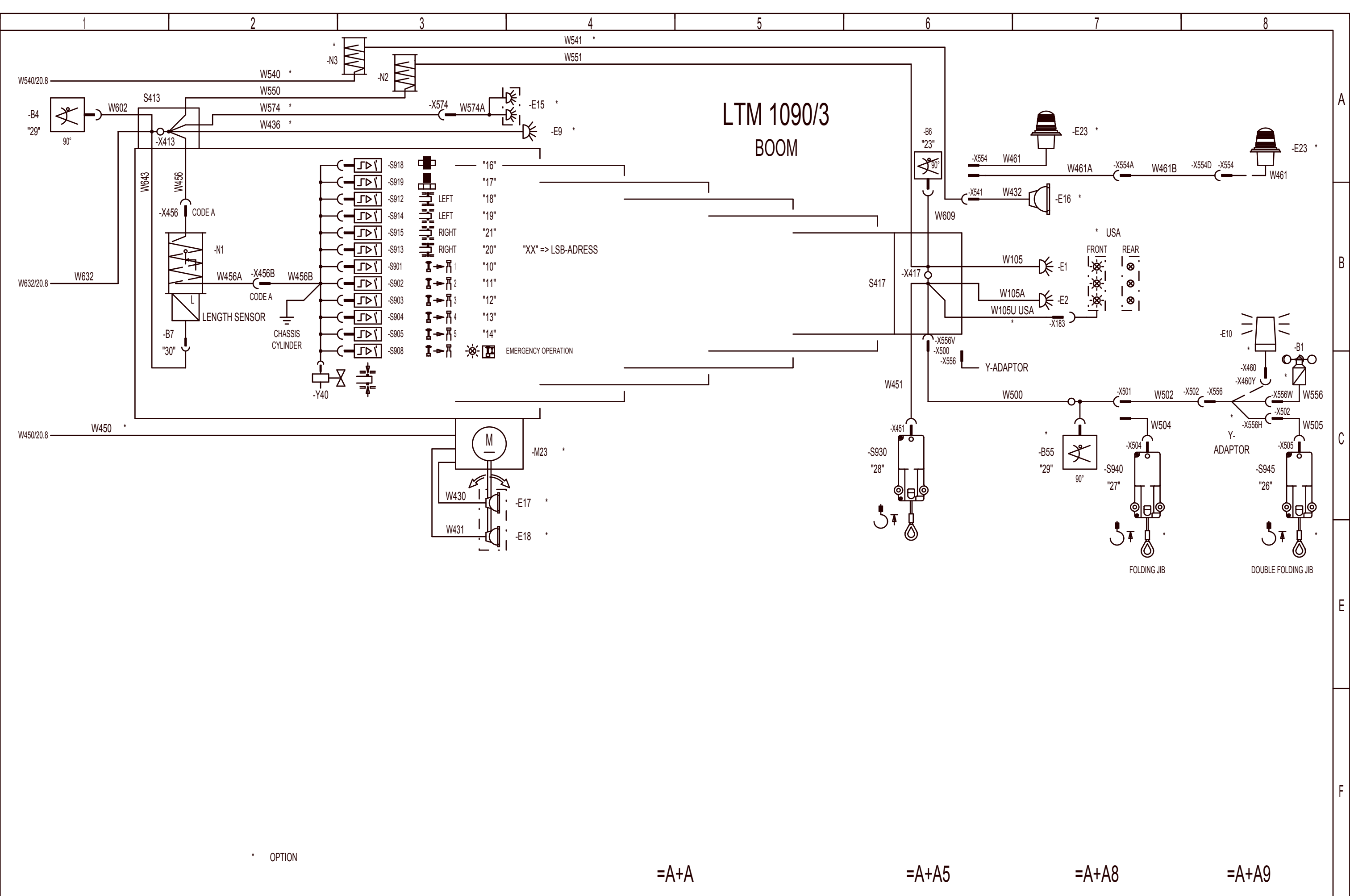
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY  EARTH CONDUCT	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	19
	Änderung	Datum	Name		Datum	Name			Copyright (c)		3372-932.04.00.001-001	von



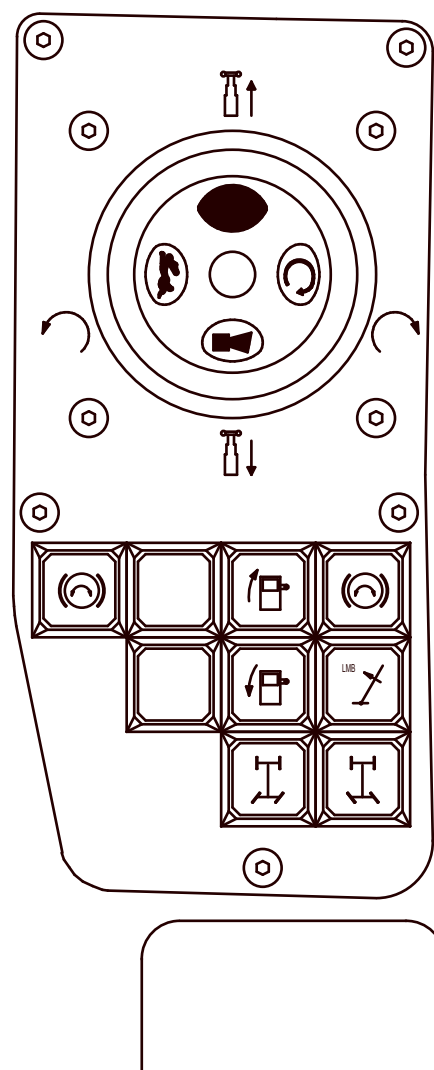
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY SWITCH CABINET +S20 ,  GENERAL OUTLAY CABIN	Ident-Nr.	984061308	=	S20	
2				Ausgabe	02.02.06	lwerof0			EHINGEN	Zeich-Nr.	3372-932.04.00.001-001	+	S20
1												Blatt	20
	Änderung	Datum	Name		Datum	Name	Copyright (c)					von	165



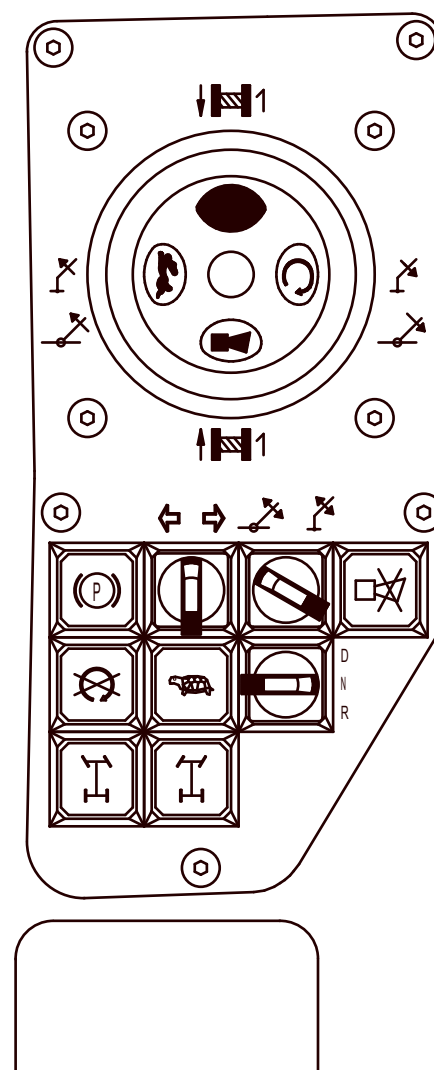
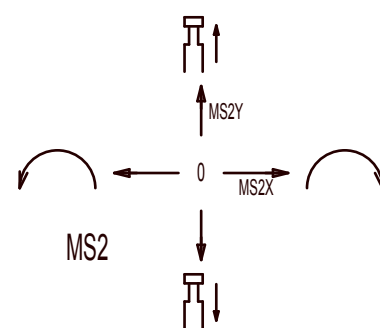
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2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	21
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	



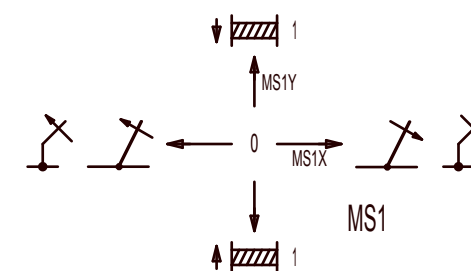
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY BOOM	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo					+	S20
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	22
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	












+P4

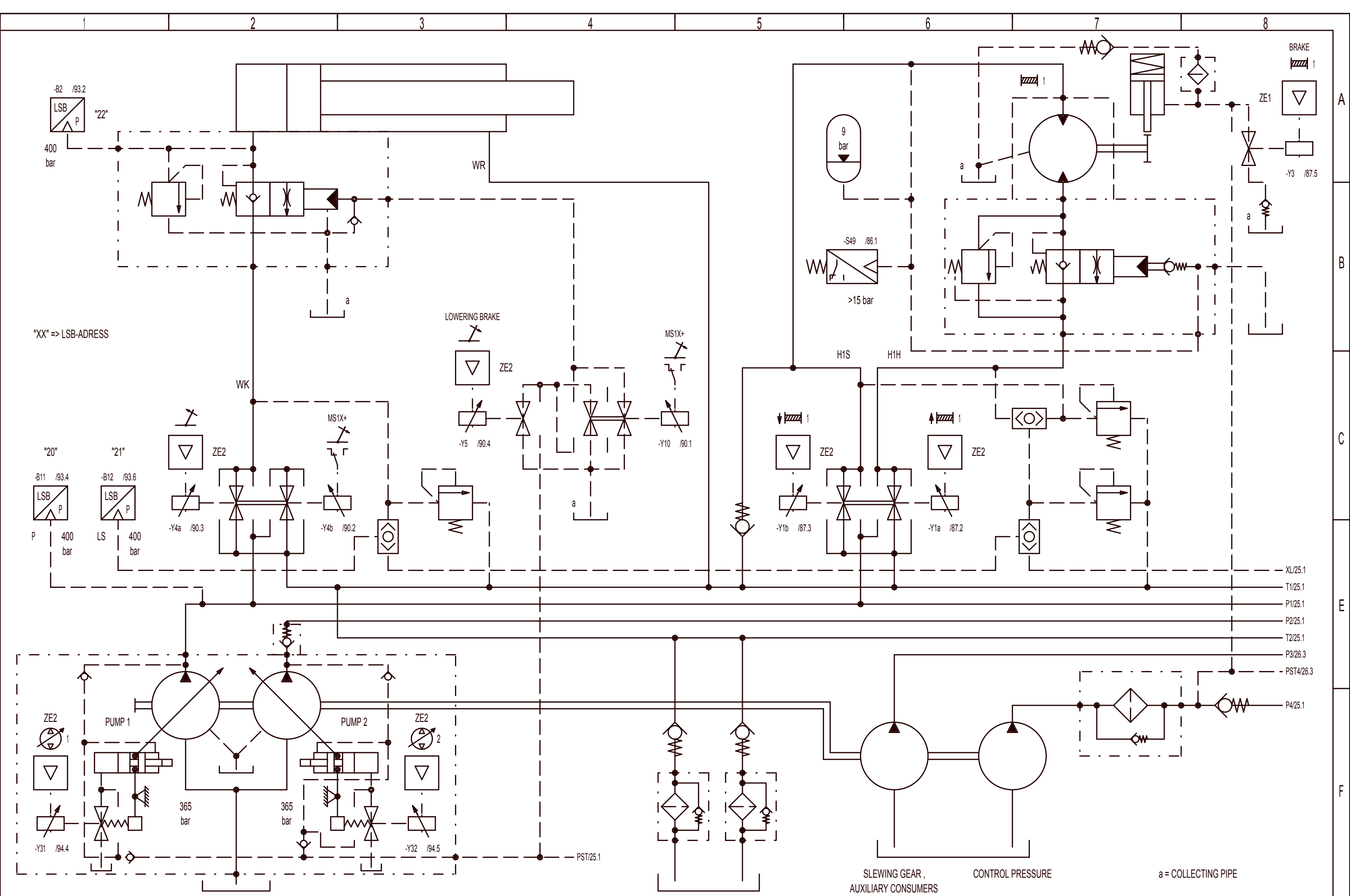


+P3



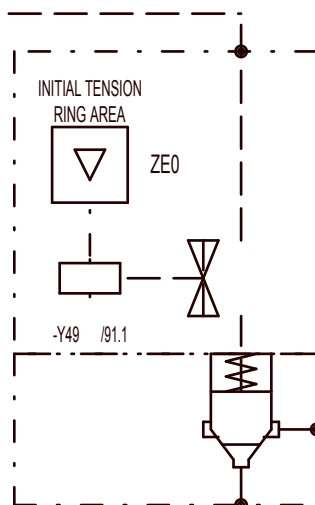
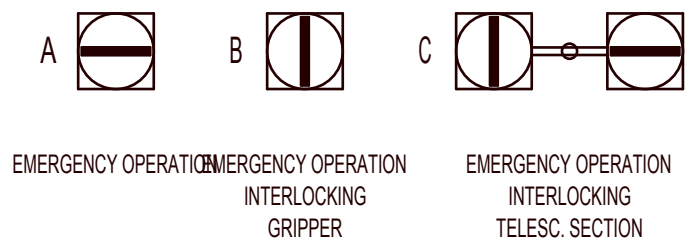
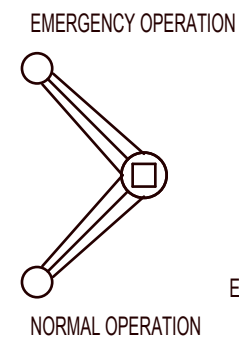
						
	X	X	X	X		X
	X	X	X		X	X

[illegible]



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY HYDRAULICS :  PUMP / LUFFING / HOIST GEAR I	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	24
	Änderung	Datum	Name							Datum	Name	Copyright (c)





TR

TX

TR

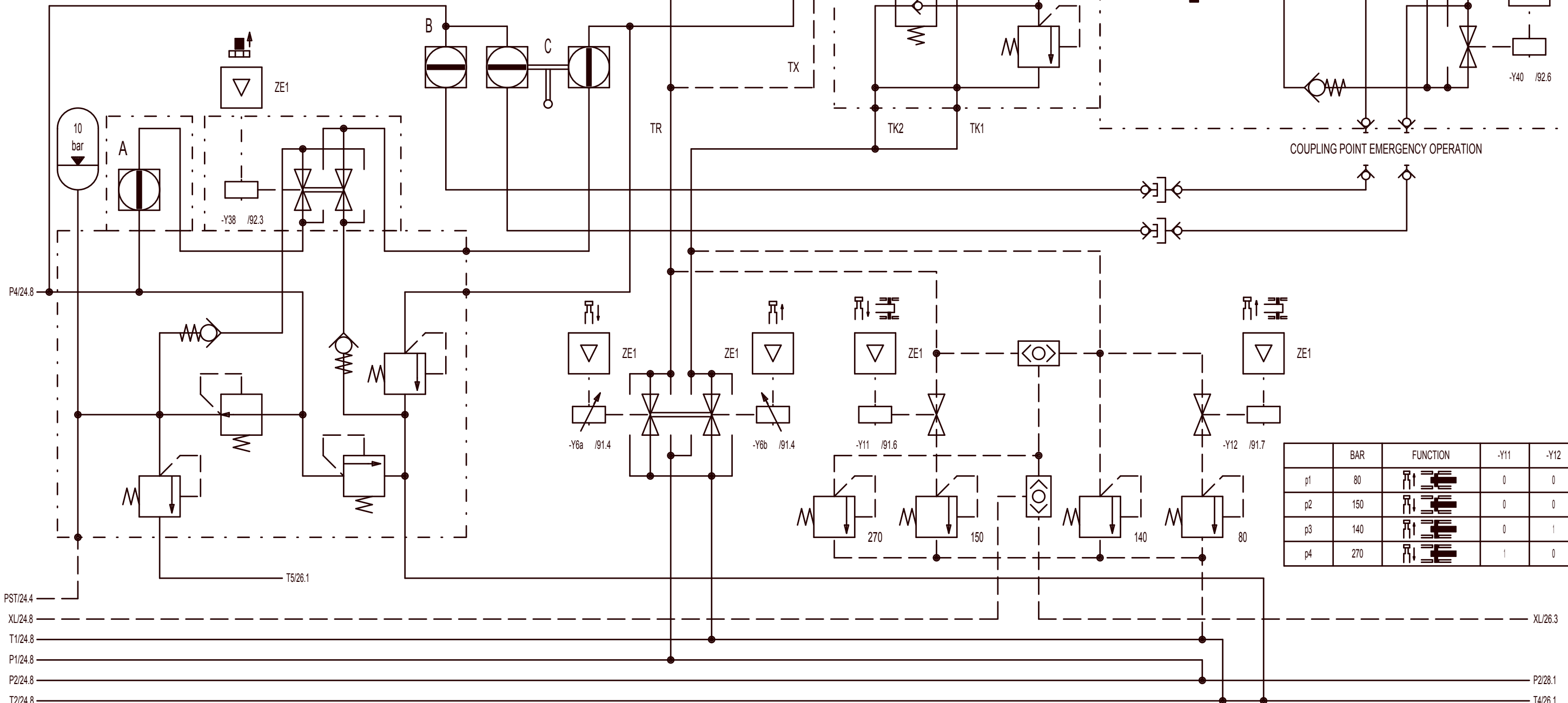
TK2

TK1

ZE1

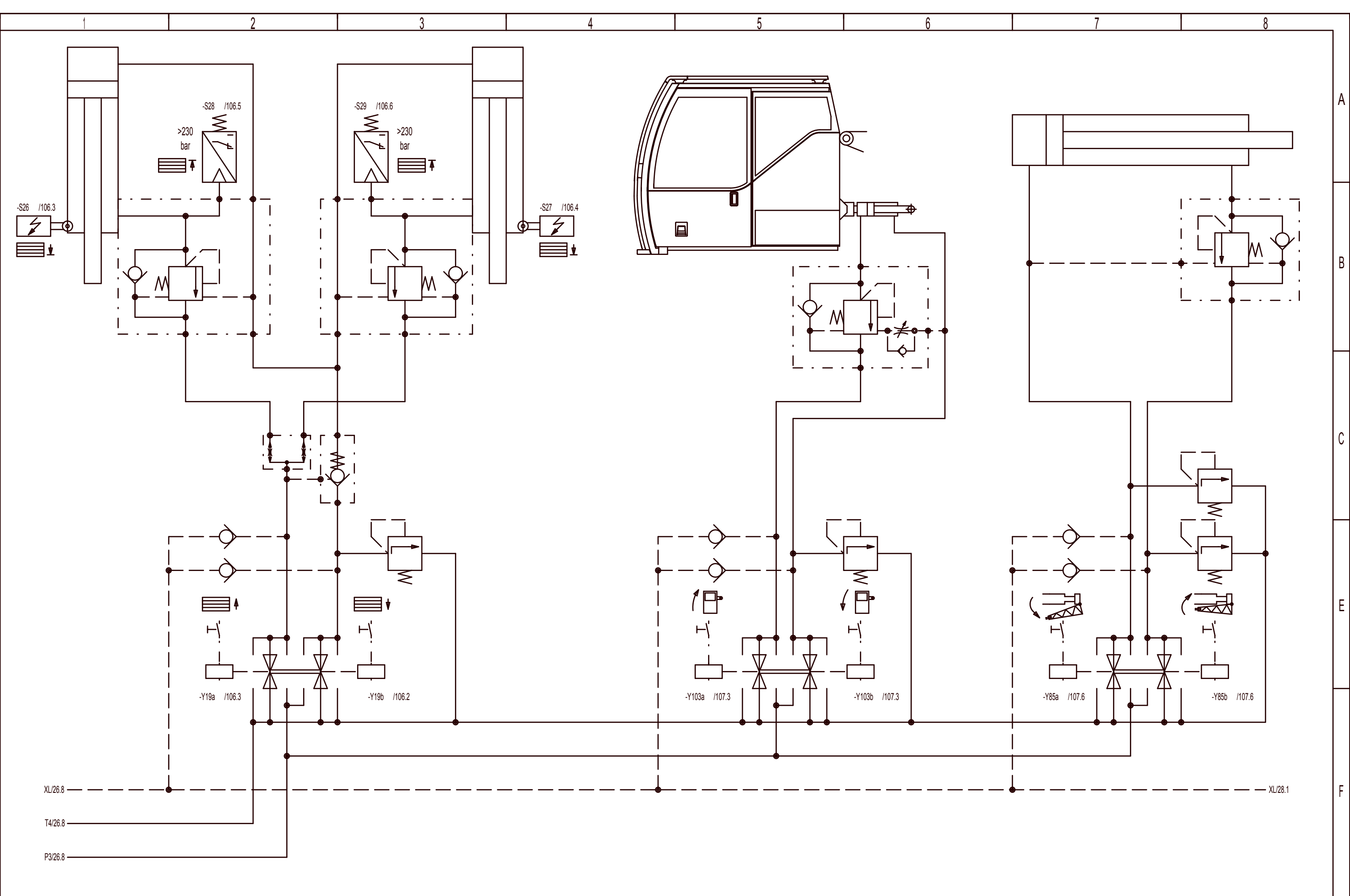
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COUPLING POINT EMERGENCY OPERATION

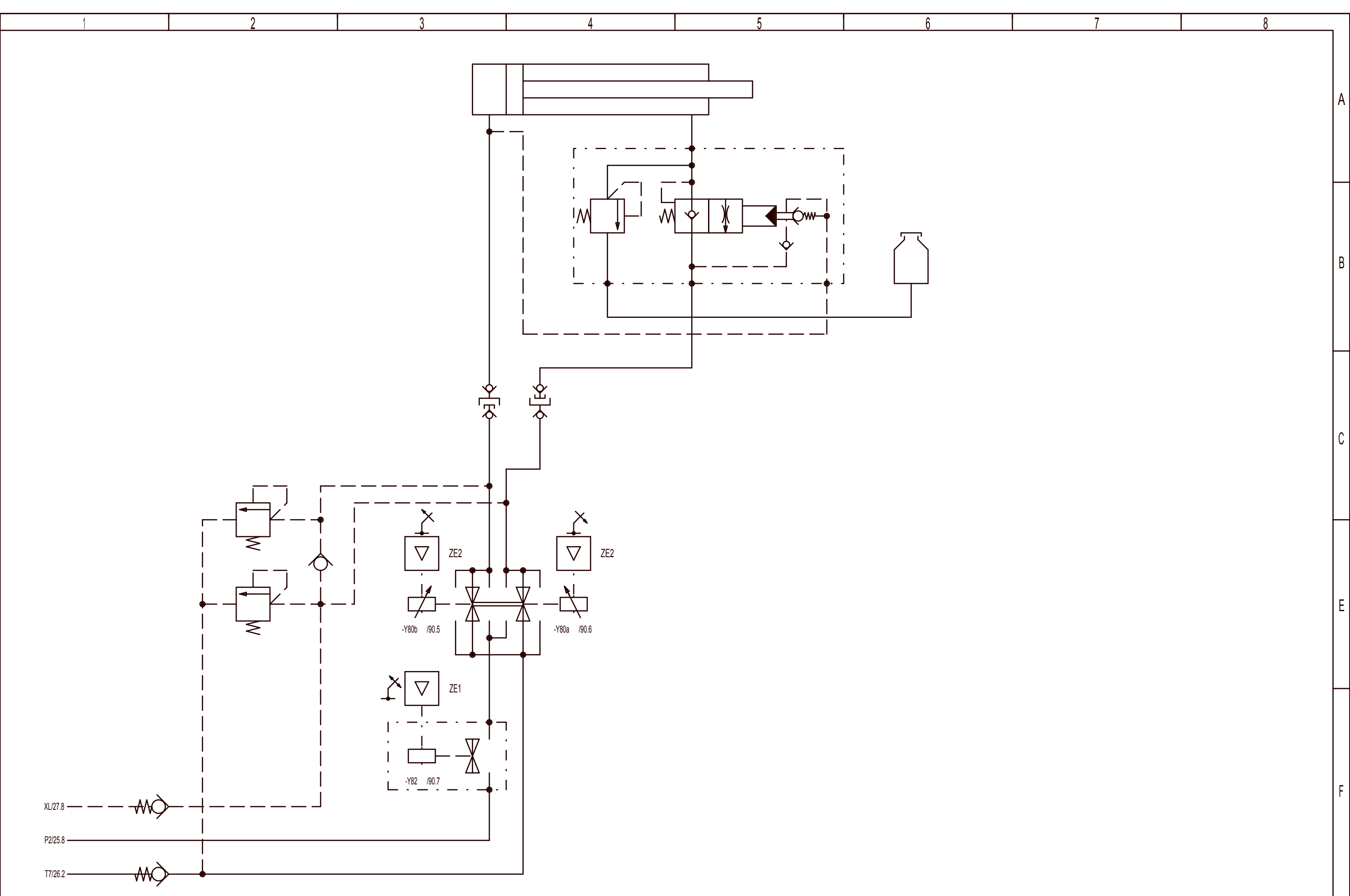


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p2	150		0	0
p3	140		0	1
p4	270		1	0

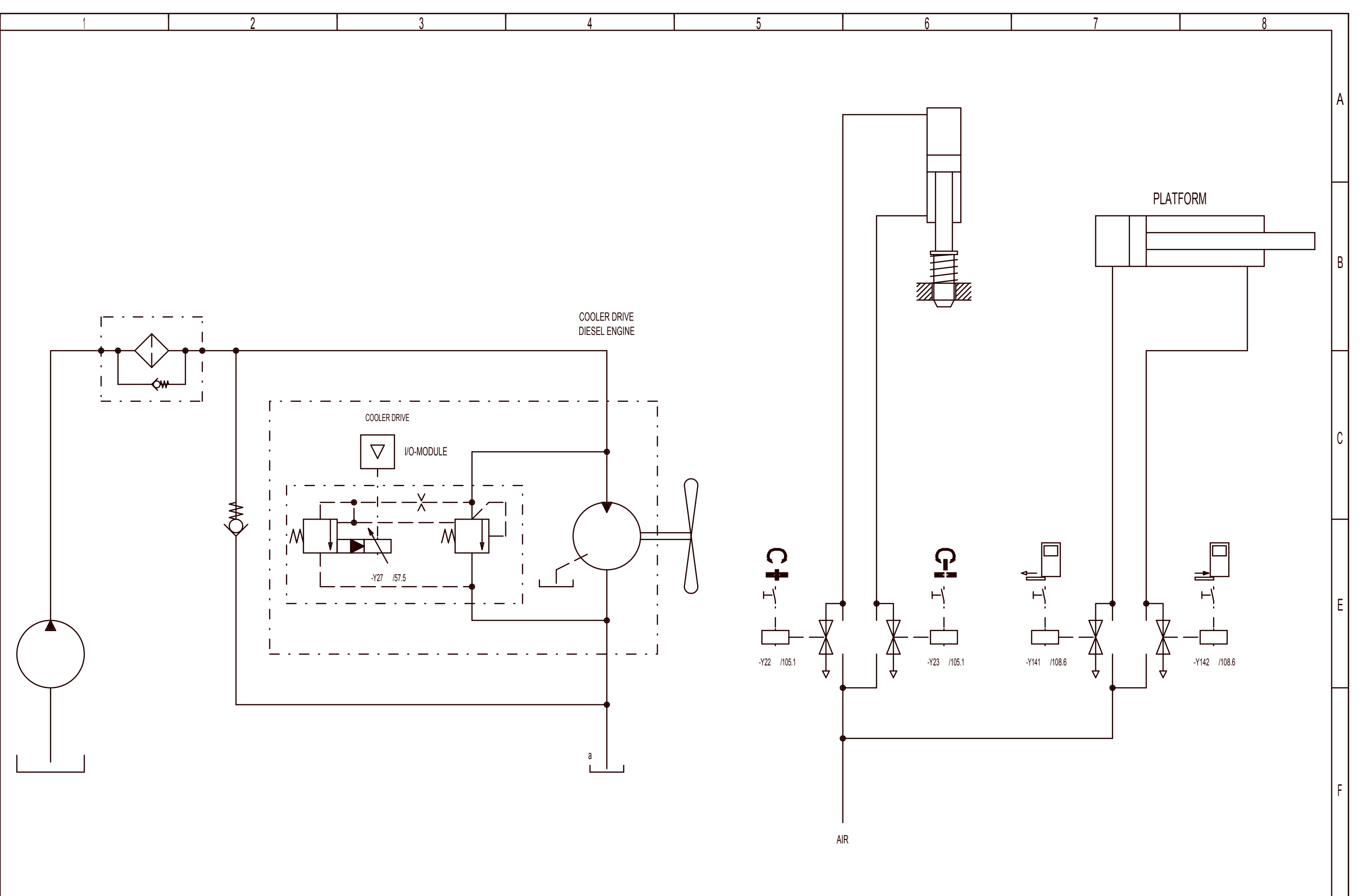




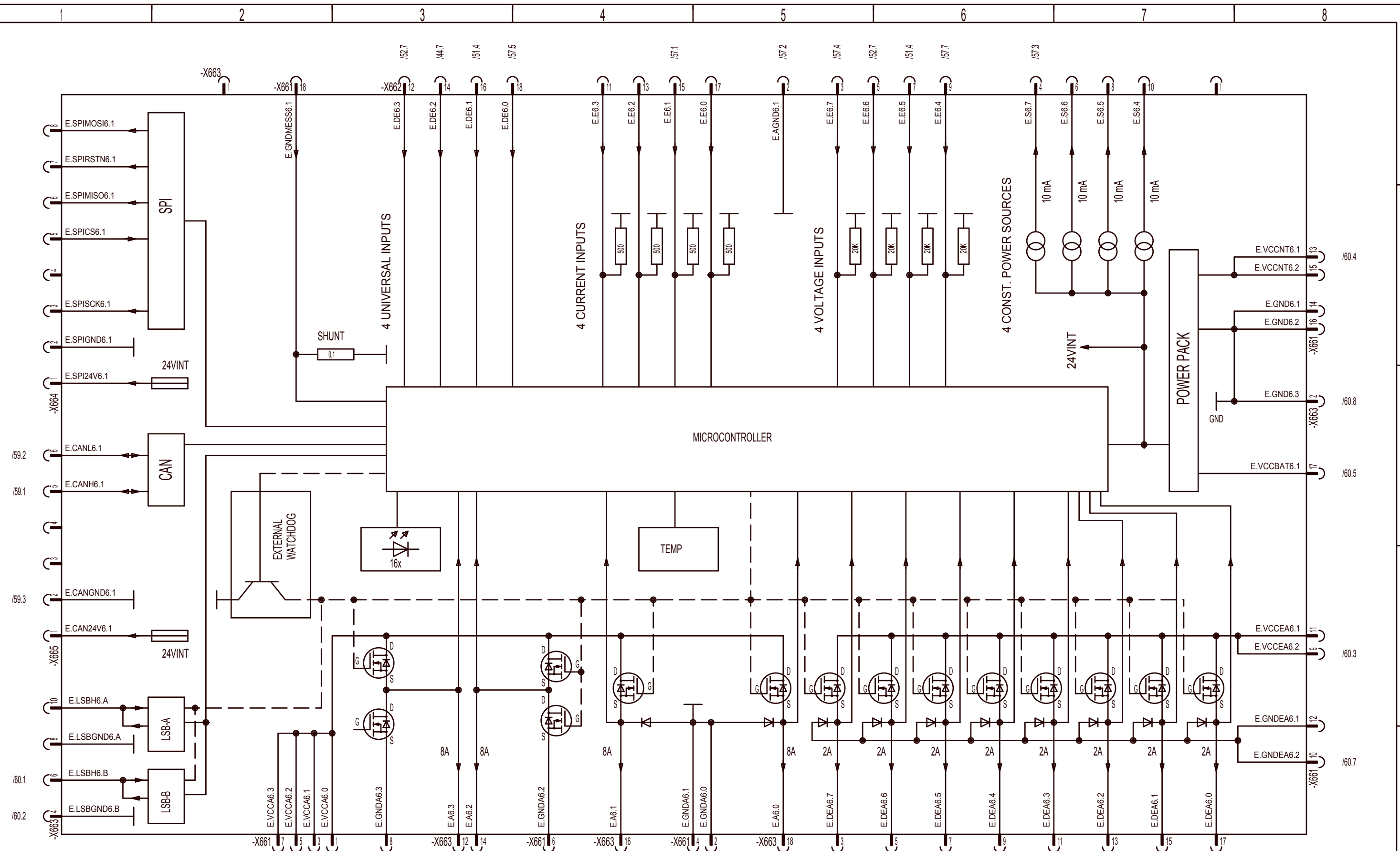
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY HYDRAULICS : BALLASTING /  INCLINING CAB / FOLDING JIB SWIVEL	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	27
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY HYDRAULICS :  FOLDING JIB LUFFING	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	28
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



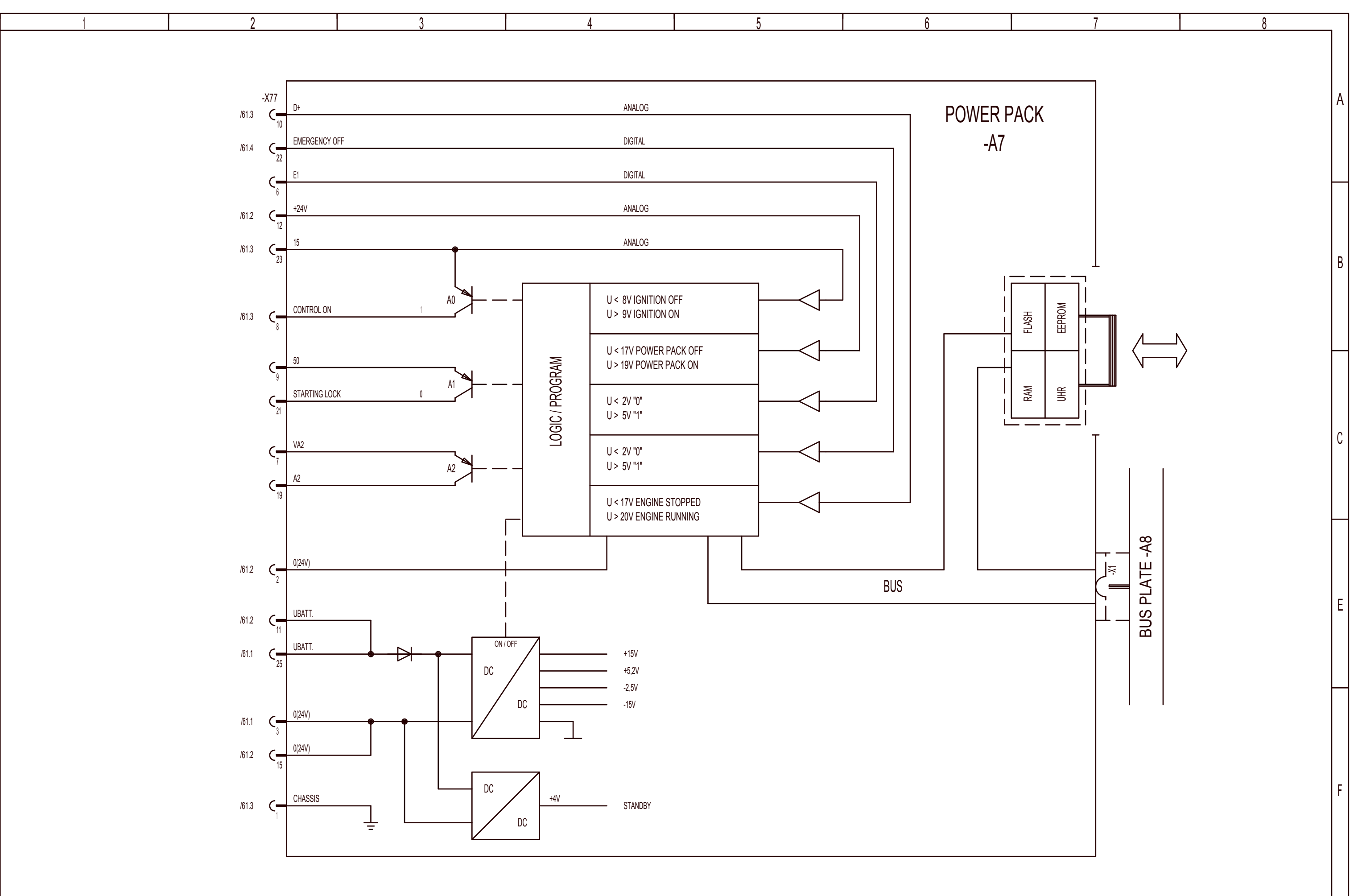
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	COOLER DRIVE DIESEL ENGINE ,  SLEWING PLATFORM ADJUSTMENT , PLATFORM CABIN	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	29
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	



CROSS REFERENCES WHICH  
REFER TO THIS SHEET  
ARE NOT PATH-RELATED!

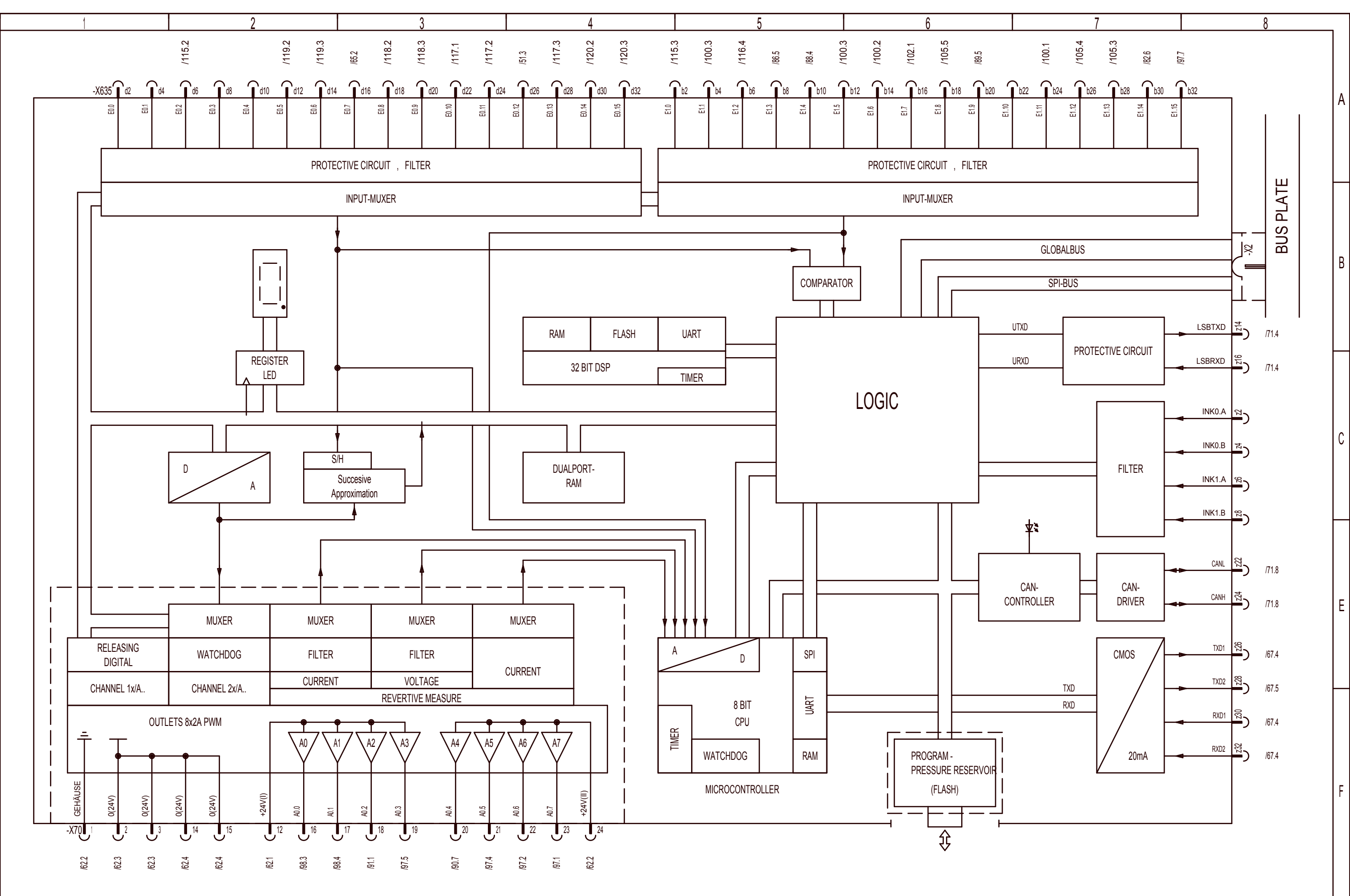
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1												Blatt	30
	Änderung	Datum	Name		Datum	Name	Copyright (c)					von	165



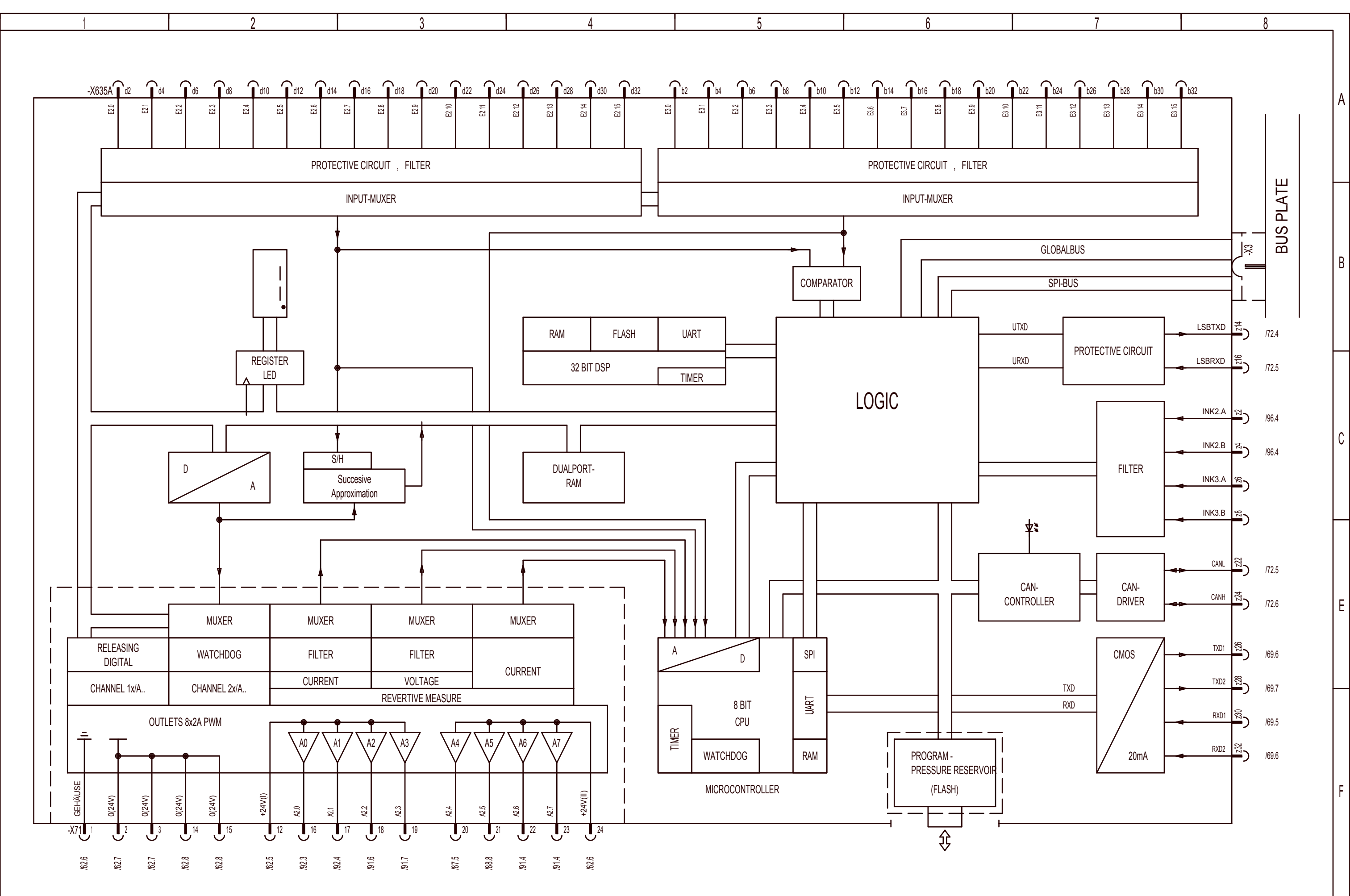


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	POWER PACK	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			EHINGEN	3372-932.04.00.001-001	+	S20
1											Blatt	32
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		





3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CENTRAL UNIT 0	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
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	Änderung	Datum	Name		Datum	Name	Copyright (c)		3372-932.04.00.001-001	von	165	

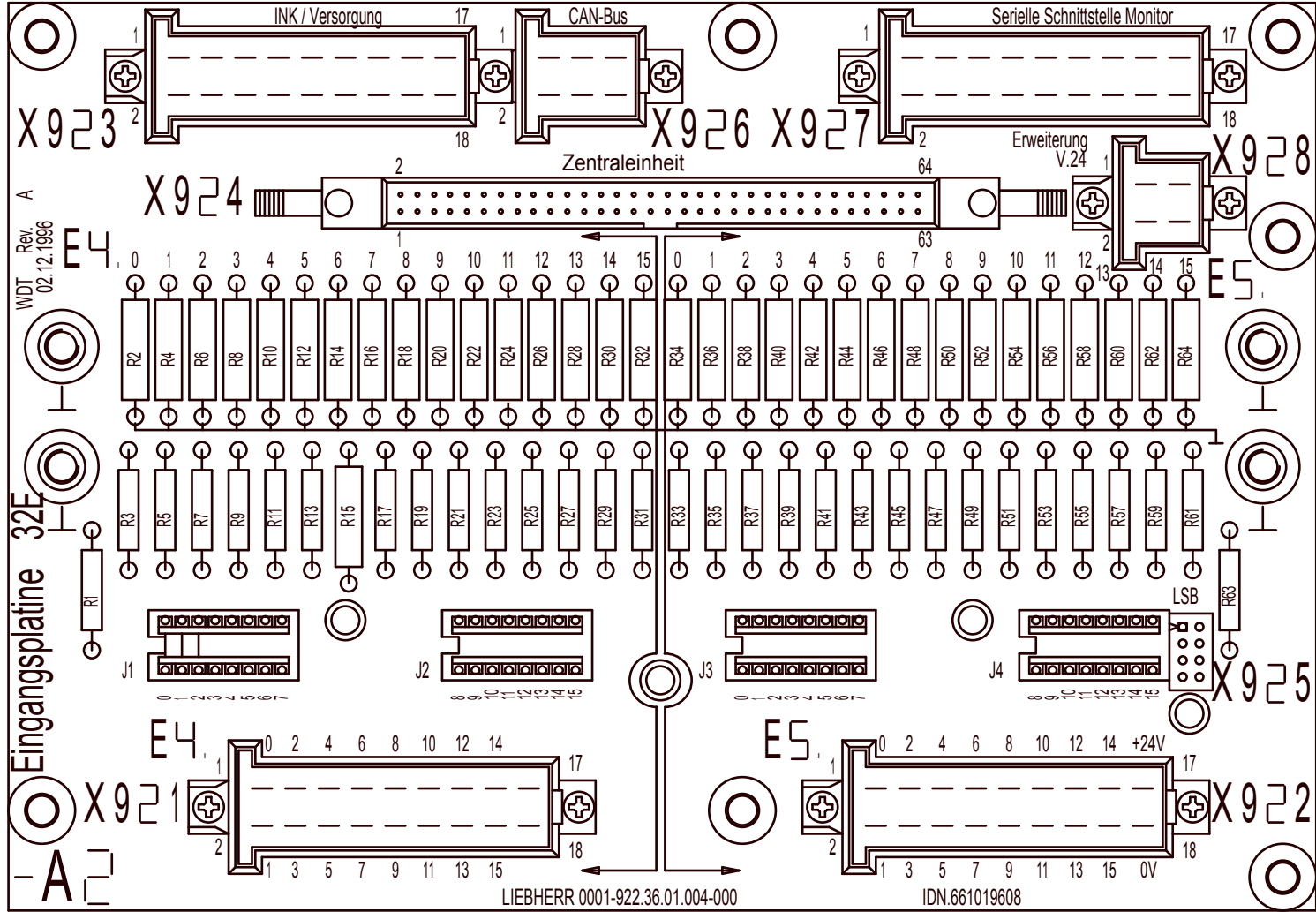
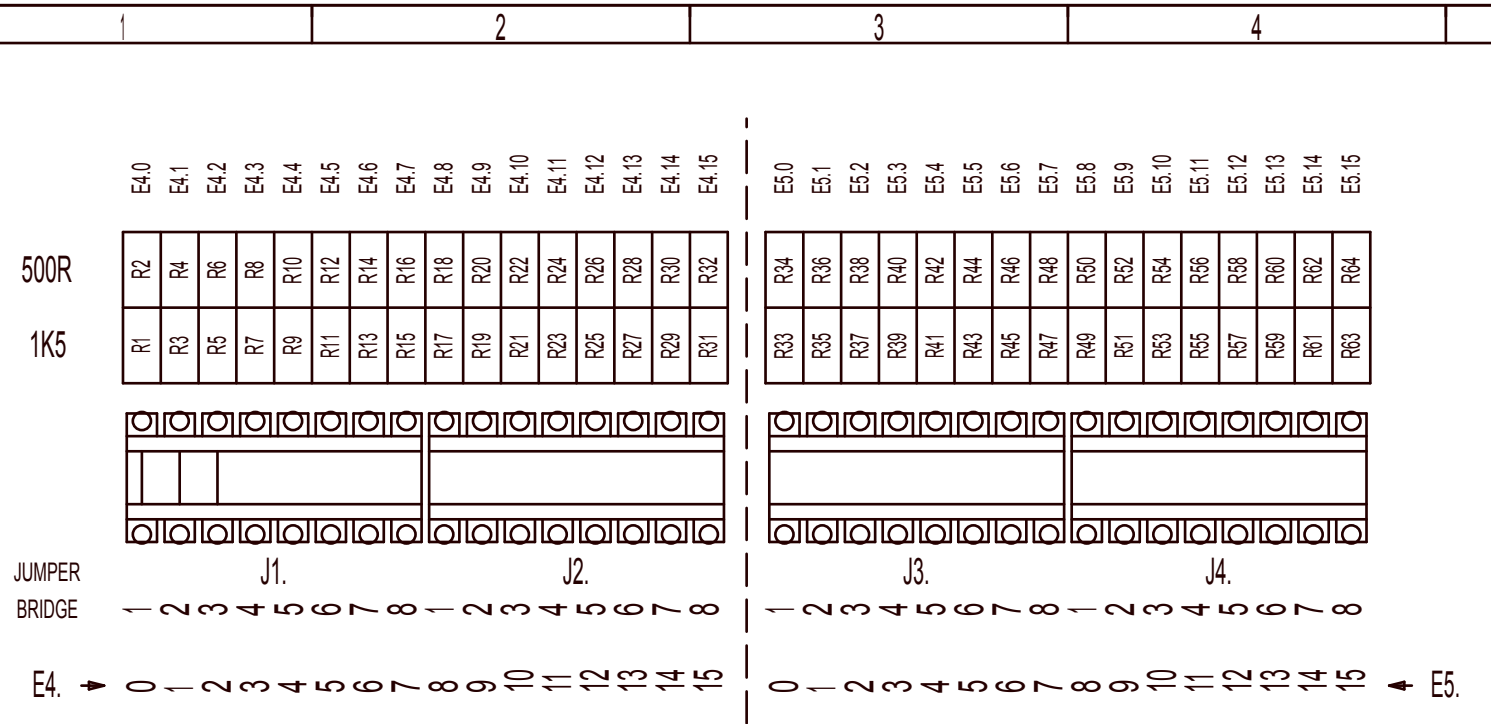


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2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	34
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

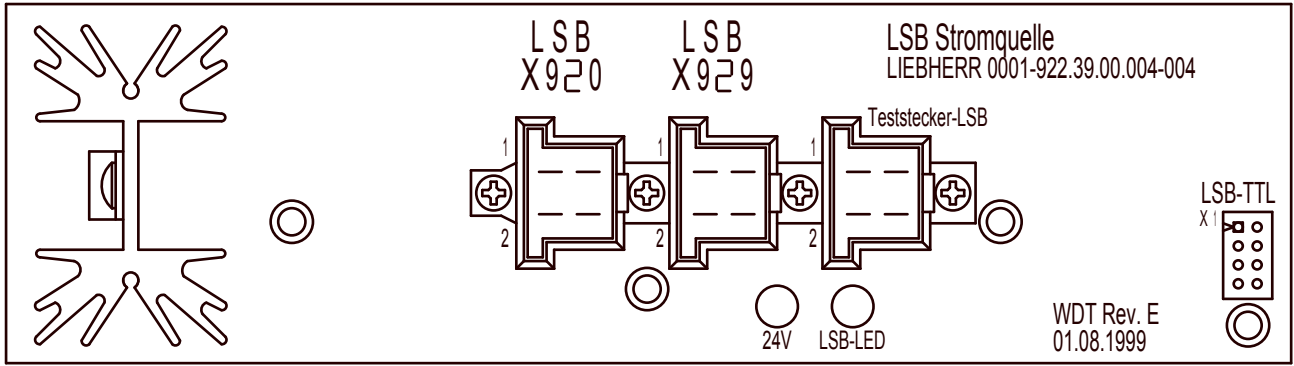








INPUT BOARD














































LSB-STROMQUELLE

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK  EHINGEN	INPUT BOARD EP 2 (-A2)  WITH BEDPLATE LSB3	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	38
	Änderung	Datum	Name		Datum	Name			Copyright (c)			von




































1				2				3				4				5				6				7				8			
<div><div><div><div></div><div></div><div></div><div></div></div></div><div>ZE 2</div></div>				FUNCTION				<div><div><div></div><div></div></div><div>1</div></div>																	<div><div><div></div><div></div></div><div>1</div></div>						
				OPERATING MODE				T/TF															EMERGENCY OPERATION								
CROSS-REFERENCE				OPERANT	SYMBOL	DESIGNATION				<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>	<div><div><div></div><div></div></div><div>↑</div></div>	<div><div><div></div><div></div></div><div>↓</div></div>				
	Q	<div><div><div></div><div></div><div></div><div></div></div><div>Stop</div></div>	SLI FREE				X <sup>2</sup>																								
	Q	<div><div><div></div><div></div></div><div>1 FREE</div></div>	WINCH 1 FREE ( C-KEY )				X	X																							
B3.28 /14.5	Q	<div><div><div></div><div></div><div></div><div></div></div><div>1 ↑</div></div>	HOISTING LIMIT SWITCH BOOM FREE				X <sup>2</sup>																								
B3.27 /14.7	Q	<div><div><div></div><div></div><div></div><div></div></div><div>2 ↑</div></div>	HOISTING LIMIT SWITCH FOLDING JIB FREE				X <sup>2</sup>																								
B3.26 /14.8	Q	<div><div><div></div><div></div><div></div><div></div></div><div>3 ↑</div></div>	HOISTING LIMIT SWITCH DOUBLE FOLDING JIB FREE				X <sup>2</sup>																								
			MS 1 NOT OK ( LSB )				X	X																							
		MS1Y<=>0	MS 1Y0-NOT ( AT STARTING )				<div><div><div></div><div></div></div><div>X</div></div>	<div><div><div></div><div></div></div><div>X</div></div>																							
E1.14 /82.6		<div><div><div></div><div></div><div></div><div></div></div><div></div></div>	SEAT CONTACT / CONTROL FREE				X <sup>6</sup>	X <sup>6</sup>																							
E5.9 /86.1		<div><div><div></div><div></div></div><div>1 FREE</div></div>	PRESSURE SWITCH HOIST GEAR 1 FREE				X <sup>4</sup>	X <sup>4</sup>																				X			
E5.13 /86.4		<div><div><div></div><div></div></div><div>1 ↓</div></div>	WINCH 1 NOT UNWOUND					X																							
				DATUM / GEPRÜFT																											
BRIDGING WITH :								<div>X<sup>2</sup> = <div><div><div></div><div></div></div><div></div></div><div>MONITOR E1.5 /100.3 E1.6 /100.2</div></div>										<div>X<sup>4</sup> = <div><div><div></div><div></div></div><div></div></div><div>CONTROL ON WITHOUT MOTOR ( MONITOR )</div></div>					<div>X<sup>6</sup> = <div><div><div></div><div></div></div><div></div></div><div>DEAD MAN MS 1 / 2</div></div>								

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK	CUT OFF DIAGRAM				Ident-Nr.		984061308		=	S20
2				Ausgabe	02.02.06	lwerof0	EHINGEN					Zeich-Nr.		3372-932.04.00.001-001		+	S20
1								von		165							
	Änderung	Datum	Name		Datum	Name	Copyright (c)	WINCH 1									

1		2		3		4		5		6		7		8													
<div> ZE 2</div>			FUNCTION	<div></div>												<div></div>											
			OPERATING MODE	T/TF												EMERGENCY OPERATION											
CROSS-REFERENCE	OPERANT	SYMBOL	DESIGNATION	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	
	Q	<div></div>	SLI FREE	X <sup>2</sup> / <sub>5</sub>	X <sup>2</sup>																						
	Q	<div></div> TAB	OGW LOAD CHART FREE	X <sup>2</sup>																							
	Q	<div></div> TAB	UGW LOAD CHART FREE		X <sup>2</sup>																						
	Q	<div></div> LABB	WORKING AREA LIMITATION LUFFING FREE	X <sup>1</sup>																							
	Q	<div></div> LABB	WORKING AREA LIMITATION LOWERING BOOM FREE		X <sup>1</sup>																						
	B3.28 /14.5	Q	<div></div> 1 	HOISTING LIMIT SWITCH BOOM FREE		X <sup>2</sup>																					
	B3.27 /14.7	Q	<div></div> 2 	HOISTING LIMIT SWITCH FOLDING JIB FREE		X <sup>2</sup>																					
	B3.26 /14.8	Q	<div></div> 3 	HOISTING LIMIT SWITCH DOUBLE FOLDING JIB FREE		X <sup>2</sup>																					
				MS 1 NOT OK ( LSB )	X	X																					
			MS1X<>0	MS 1X0-NOT ( AT STARTING )	$\overline{X}$	$\overline{X}$																					
	E1.14 /82.6		<div></div>	SEAT CONTACT / CONTROL FREE	X <sup>6</sup>	X <sup>6</sup>																					
	E4.15 /89.3		<div></div>	PRESELECTION LUFFING	X	X																					
			DATUM / GEPRÜFT																								
BRIDGING WITH :			X <sup>1</sup> = <div></div> WORKING AREA LIMITATION " OFF " ( MONITOR )	X <sup>2</sup> = <div></div> MONITOR E1.5 /100.3 E1.6 /100.2								X <sup>5</sup> = <div></div> LMB E1.9 /89.5				X <sup>6</sup> = <div></div> DEAD MAN MS 1 / 2											

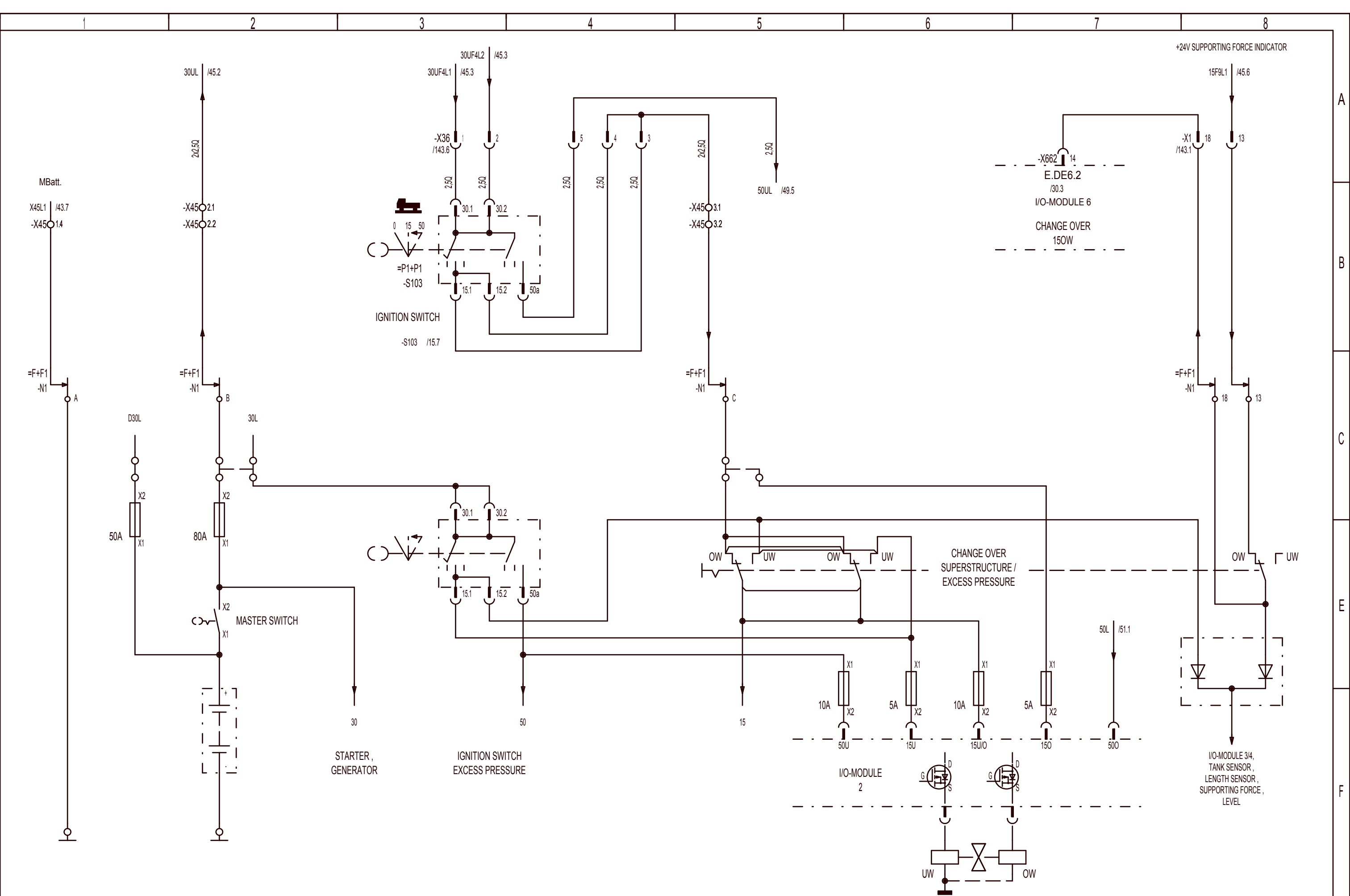
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CUT OFF DIAGRAM  LUFFING	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1									Blatt		40	
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



1		2		3		4		5		6		7		8									
<div></div> ZE 1			FUNCTION	<div></div> T/TF				<div></div> T/TF							<div></div> EMERGENCY OPERATION								
CROSS-REFERENCE	OPERANT	SYMBOL	DESIGNATION	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	<div></div> ↑ ↓	
	Q		SLI FREE	X <sup>2</sup>																			
	Q		OPERATING MODE OK ( SLI )	X	X																		
			LENGTH SENSOR OK	X	X																		
	Q	<div> FREE</div>	TELESCOPING OUT FREE ( SLI )	X																			
	Q	<div> LABB</div>	WORKING AREA LIMITATION TELESCOPING OUT FREE	X <sup>1</sup>																			
	Q		NO TIPPING DANGER TOWARDS REAR ( SLI )		X <sup>2</sup>																		
B3.28 /14.5	Q	<div> 1 </div>	HOISTING LIMIT SWITCH BOOM FREE	X <sup>2</sup>																			
B3.27 /14.7	Q	<div> 2 </div>	HOISTING LIMIT SWITCH FOLDING JIB FREE	X <sup>2</sup>																			
B3.26 /14.8	Q	<div> 3 </div>	HOISTING LIMIT SWITCH DOUBLE FOLDING JIB FREE	X <sup>2</sup>																			
			MS 2 NOT OK ( LSB )	X	X																		
		MS2Y<=>0	MS 2Y0-NOT ( AT STARTING )	$\overline{X}$	$\overline{X}$																		
E1.14 /82.6			SEAT CONTACT / CONTROL FREE	X <sup>6</sup>	X <sup>6</sup>																		
E4.15 /89.3			PRESELECTION LUFFING / NOT TELESCOPING	$\overline{X}$	$\overline{X}$																		
			DATUM / GEPRÜFT																				
BRIDGING WITH :			X <sup>1</sup> =  WORKING AREA LIMITATION " OFF " ( MONITOR )	X <sup>2</sup> =  MONITOR E1.5 /100.3 E1.6 /100.2										X <sup>6</sup> =  DEAD MAN MS 1 / 2									

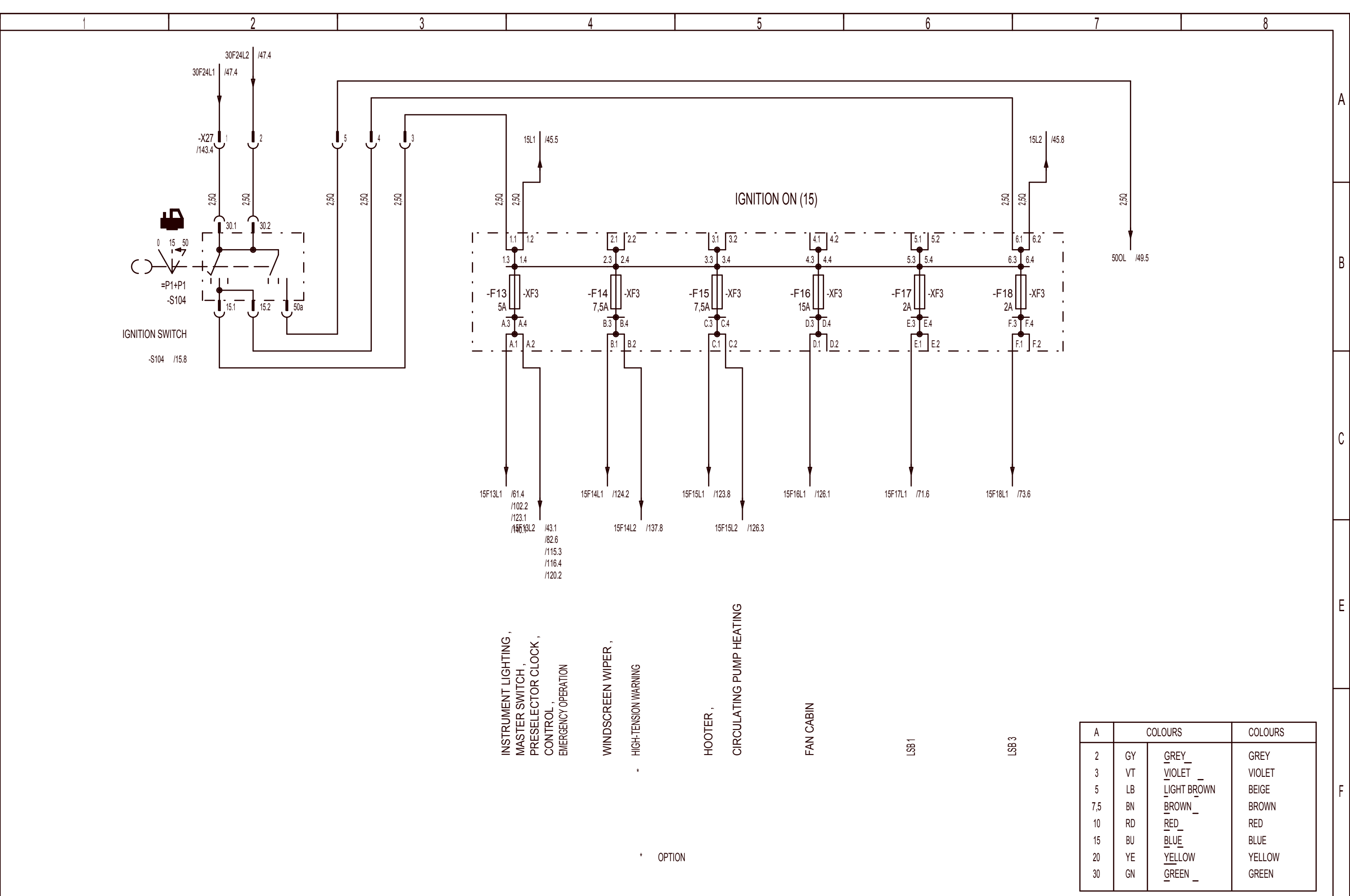
[illegible]





3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	VOLTAGE SUPPLY EXCESS PRESSURE ,  IGNITION SWITCH EXCESS PRESSURE	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	44
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



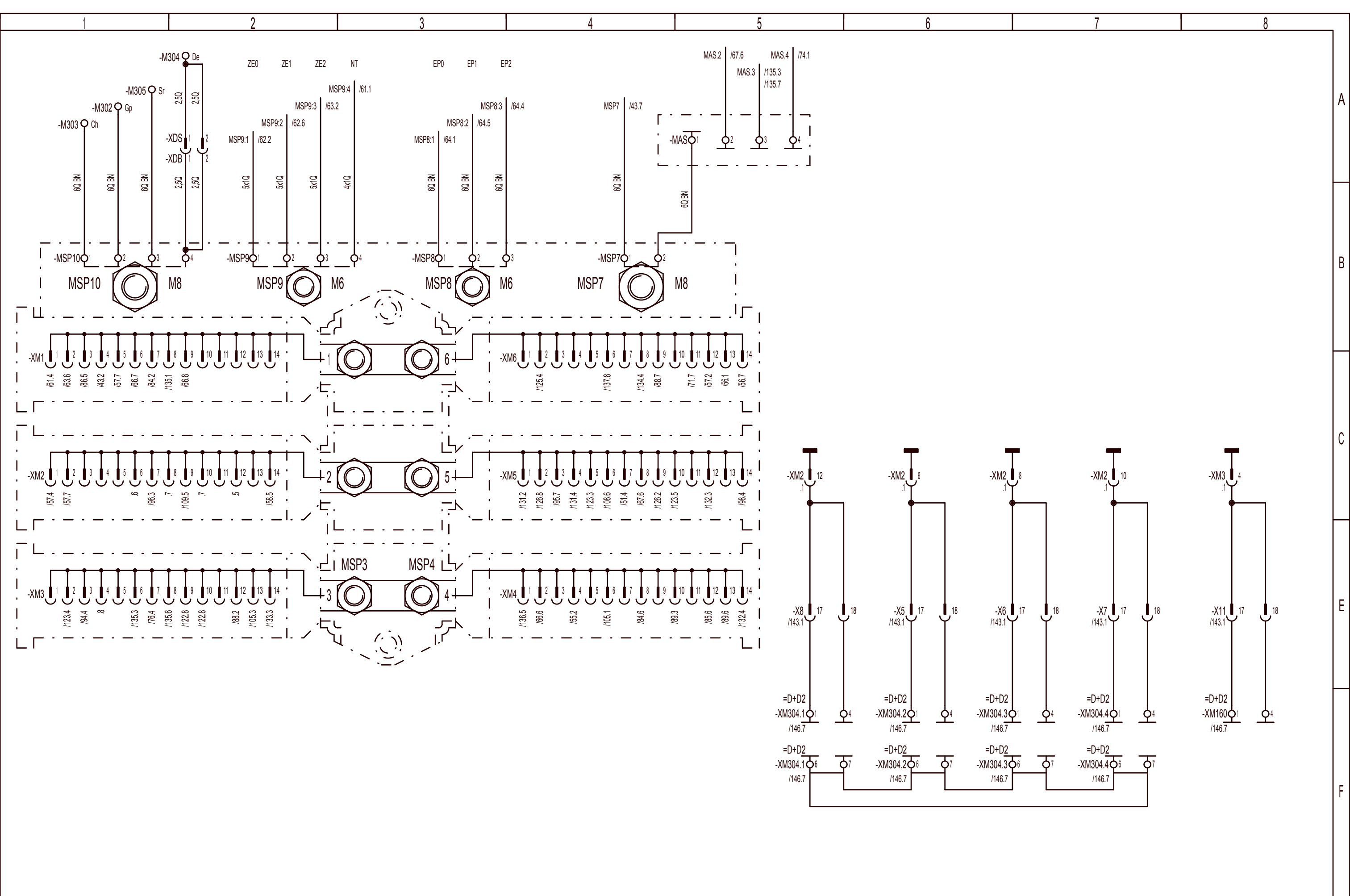






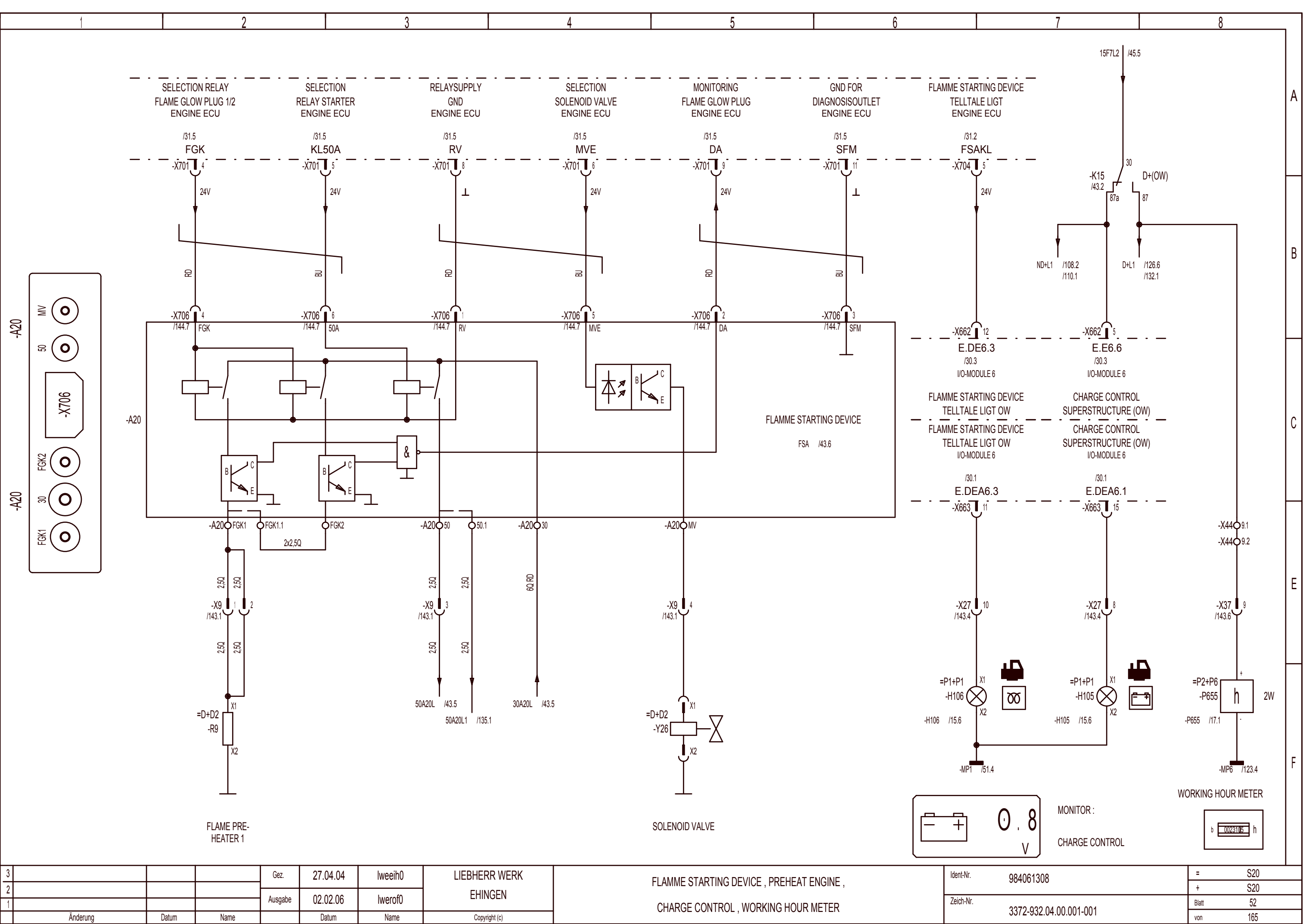


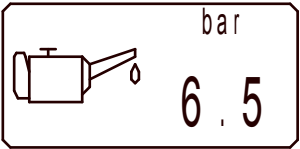
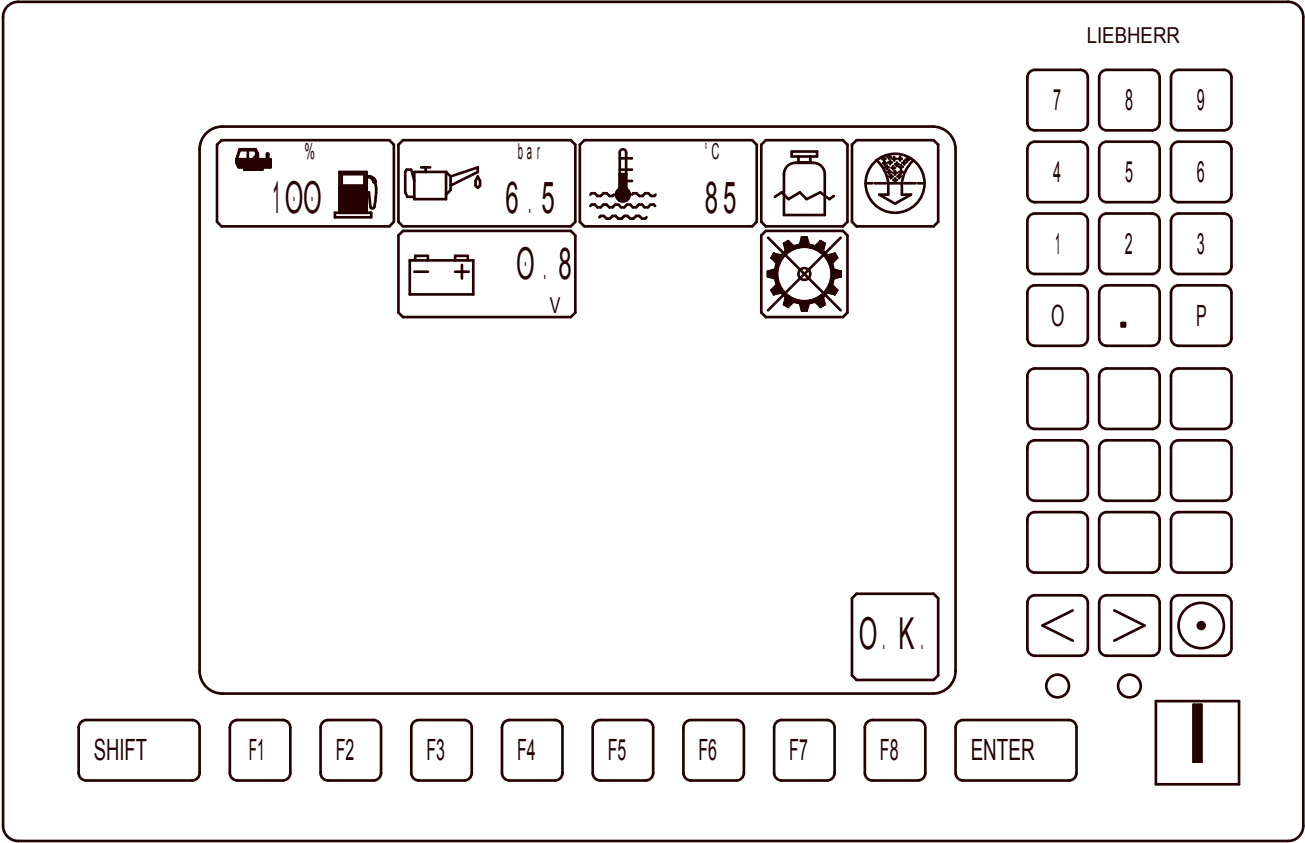
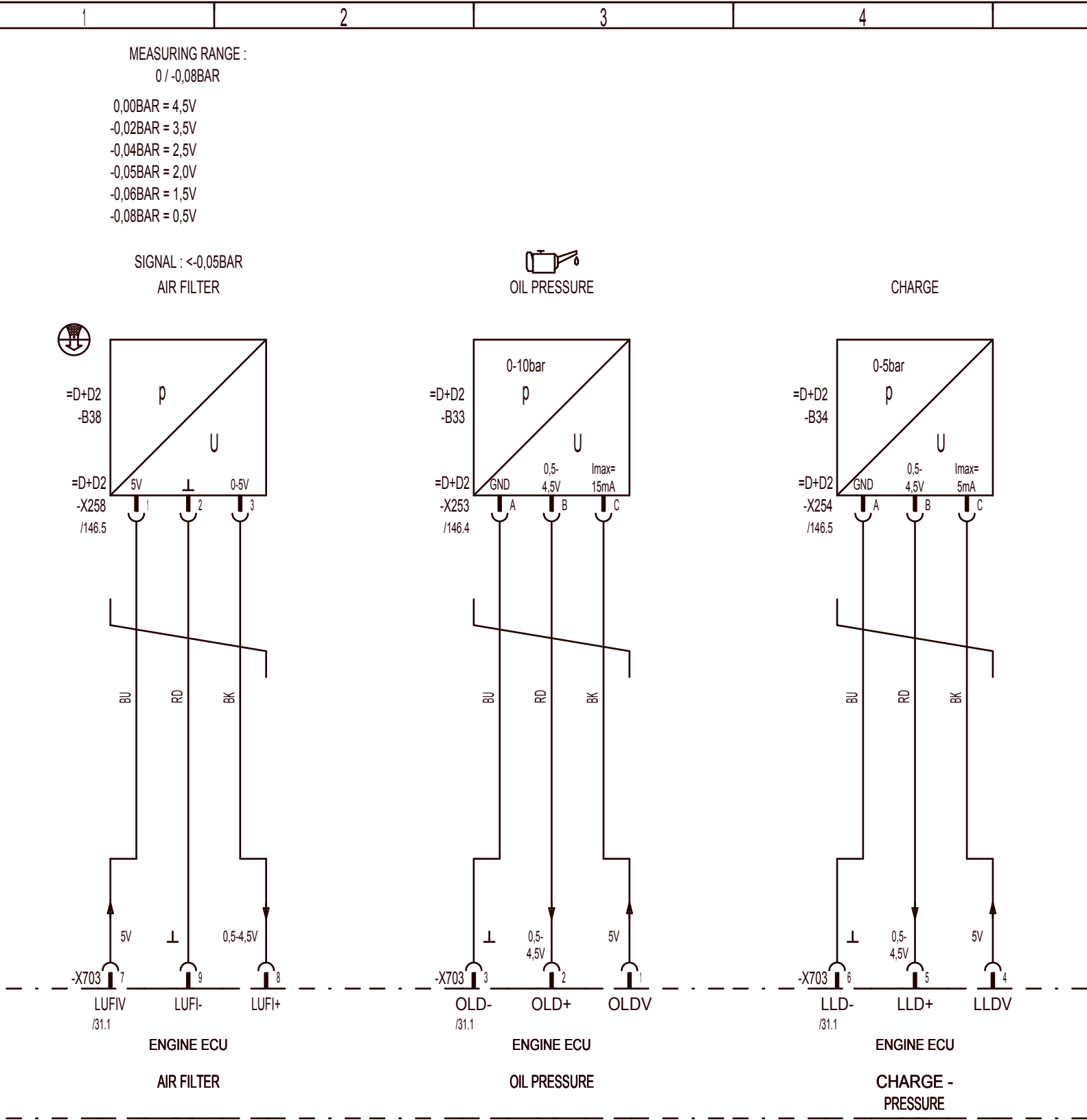




3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	MASS DISTRIBUTION	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	50
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



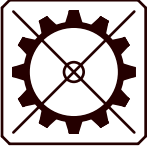




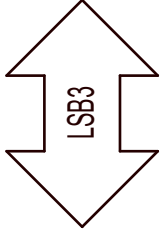
OIL PRESSURE ENGINE



AIR FILTER CONTAMINATION



FAILURE  
TRANSMISSION



OW

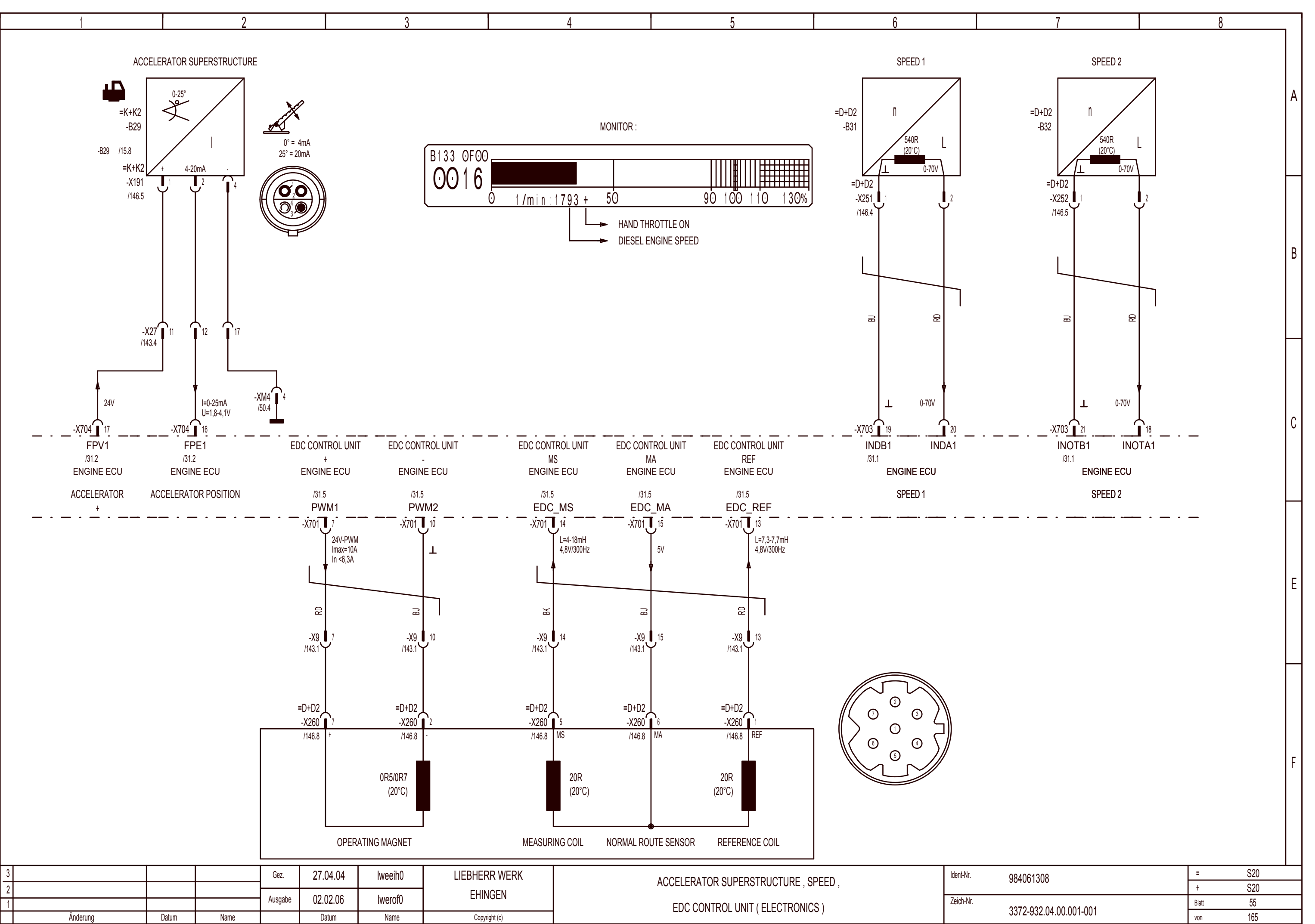


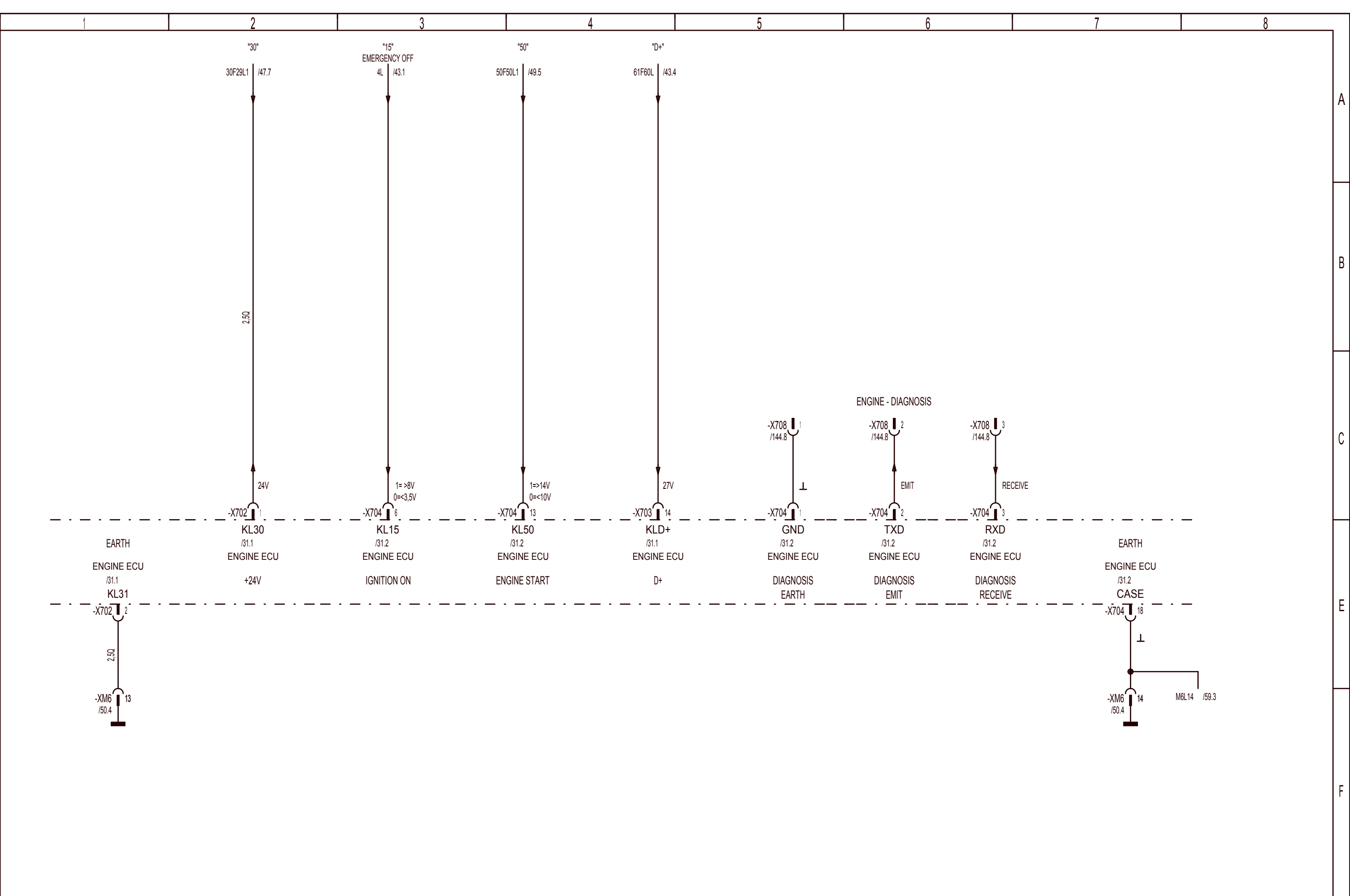
CHANGE OVER  
( IMAGE CHANGE )

F8

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	ENGINE SUPERSTRUCTURE ,  AIR FILTER , OIL PRESSURE , CHARGE	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	53
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		

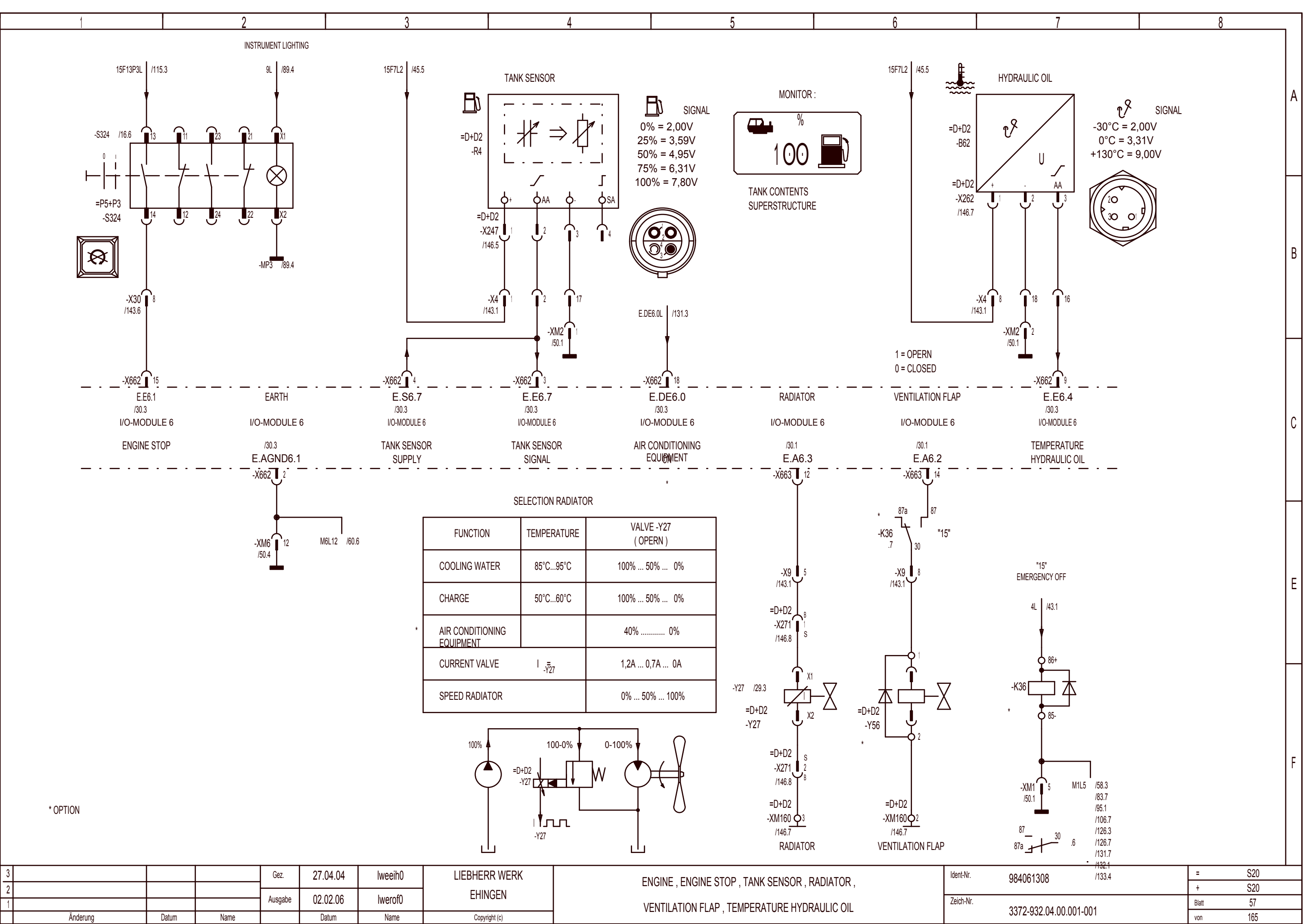


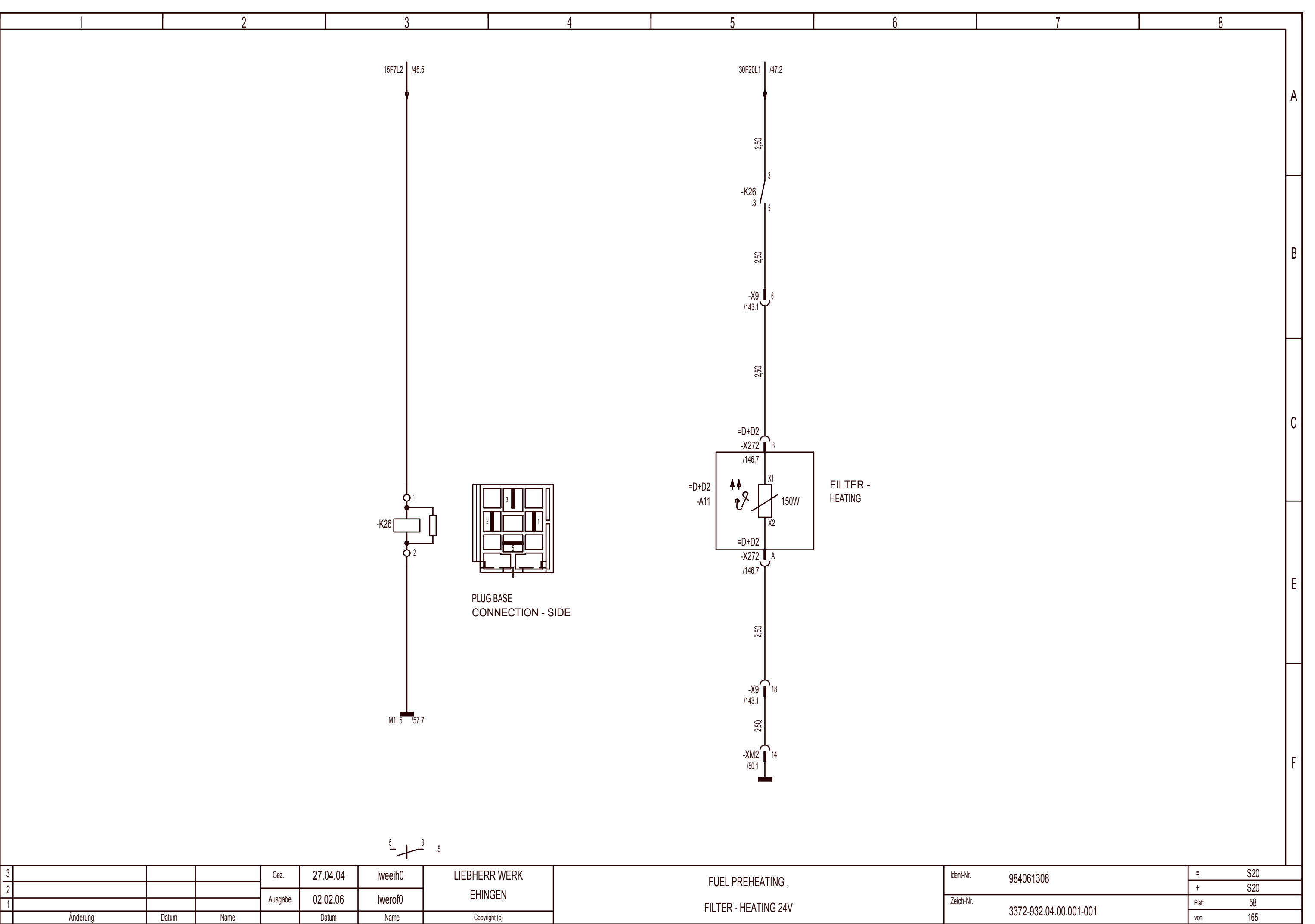


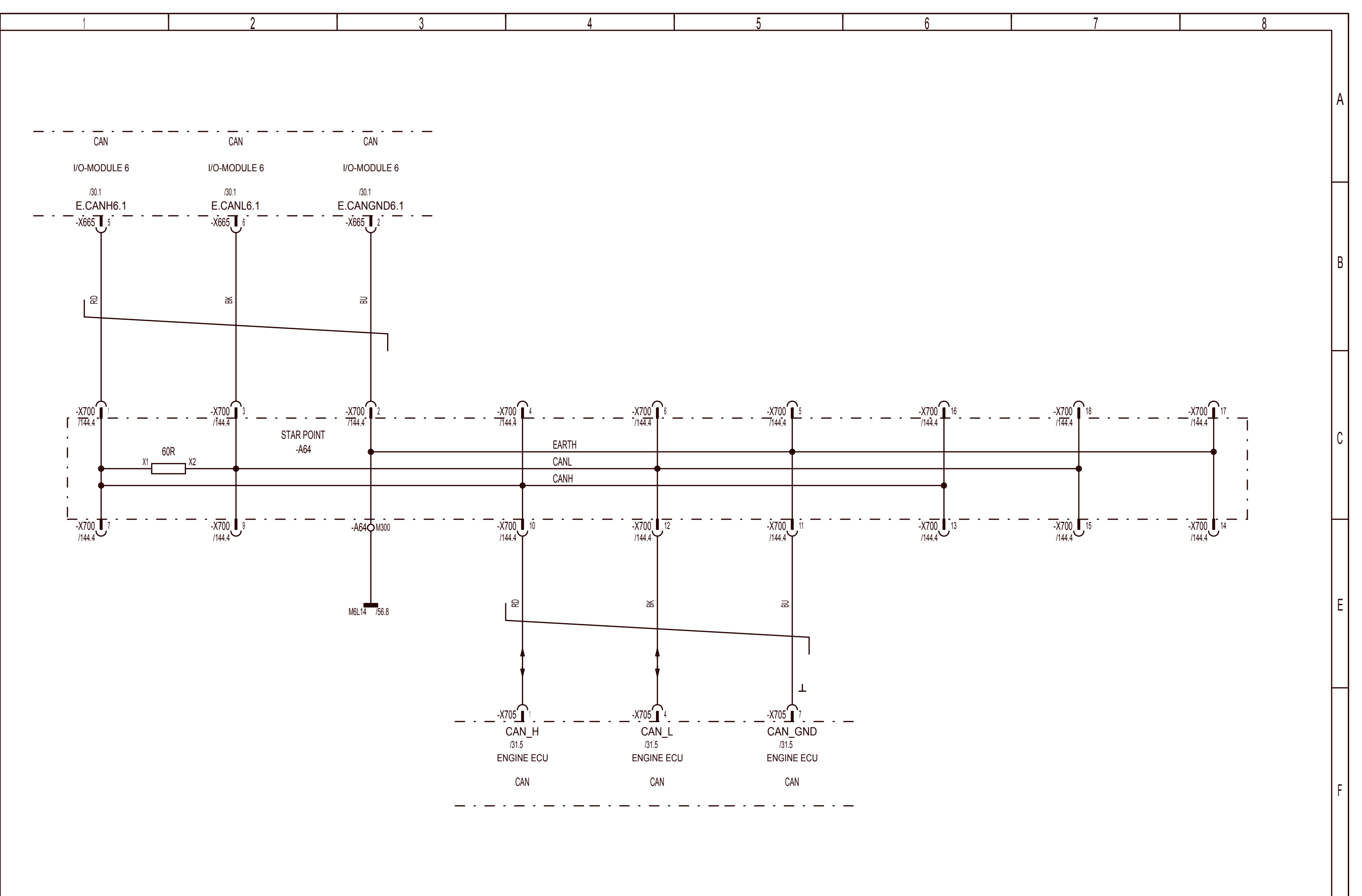


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	ENGINE SUPERSTRUCTURE ,  ENGINE - DIAGNOSIS , DIAGNOSIS ENGINE	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	56
	Änderung	Datum	Name		Datum	Name	Copyright (c)					
									von	165		

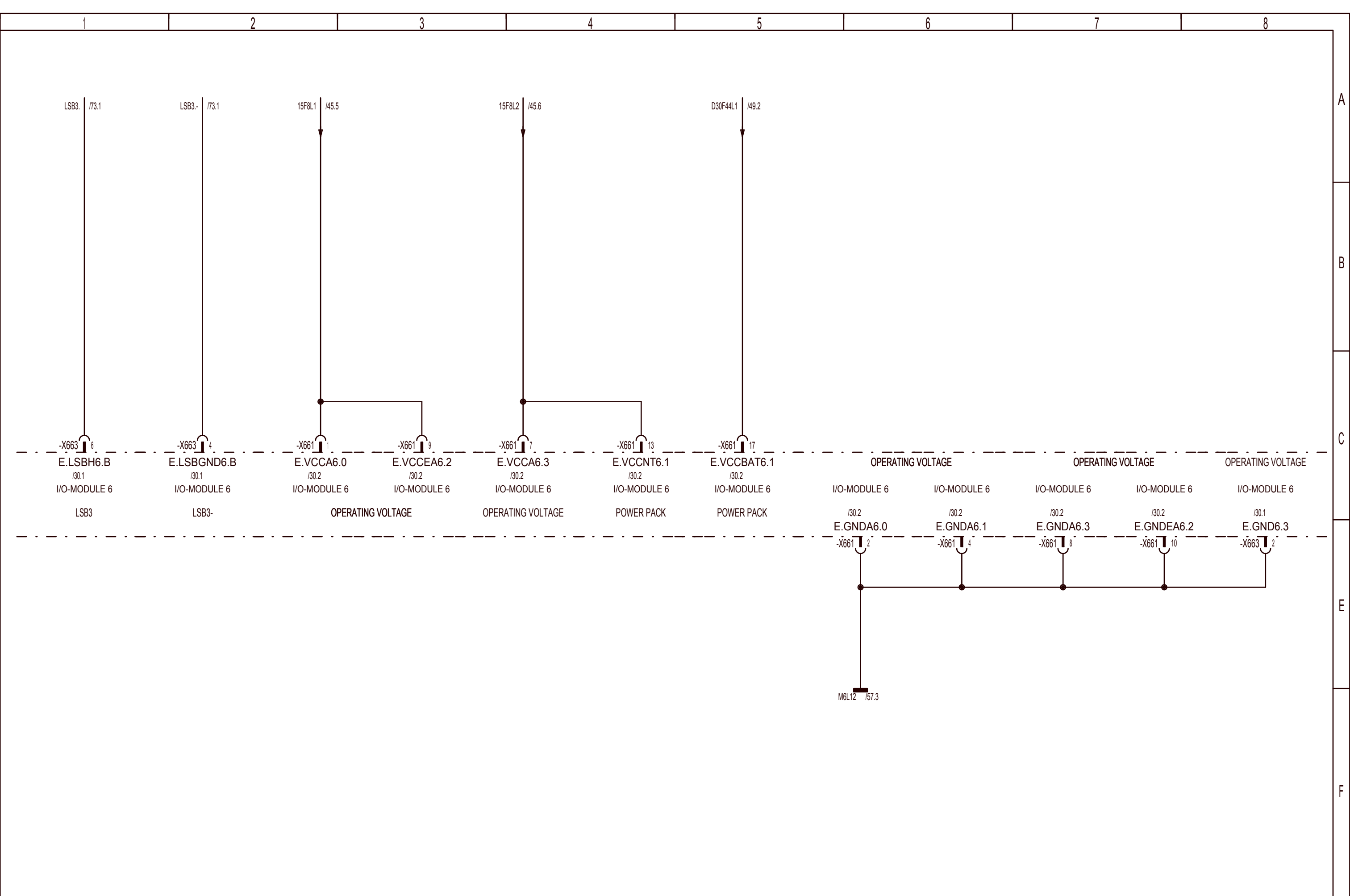






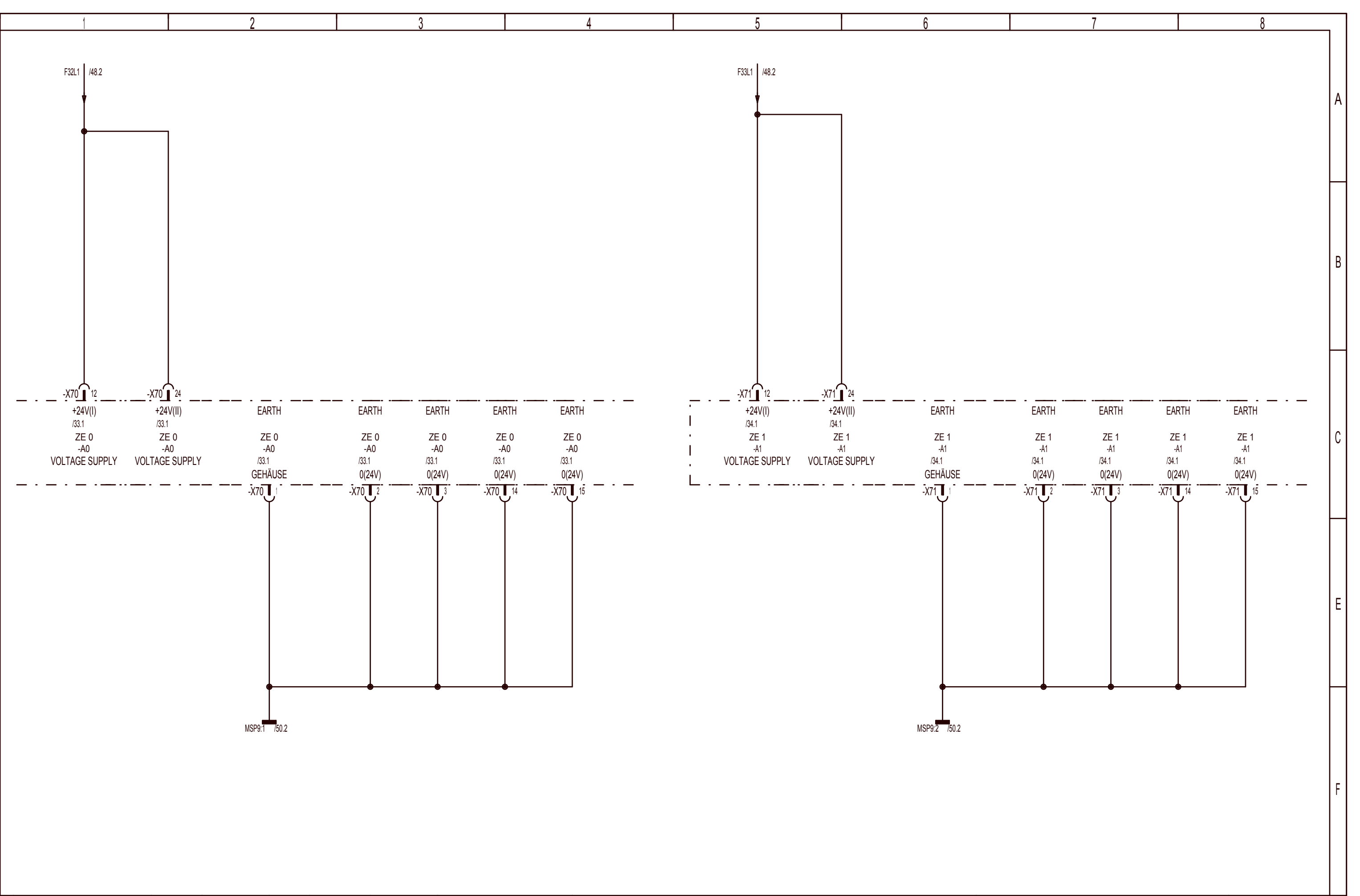


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	STAR POINT CAN BUS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	59
	Änderung	Datum	Name		Datum	Name	Copyright (c)			3372-932.04.00.001-001	von	165

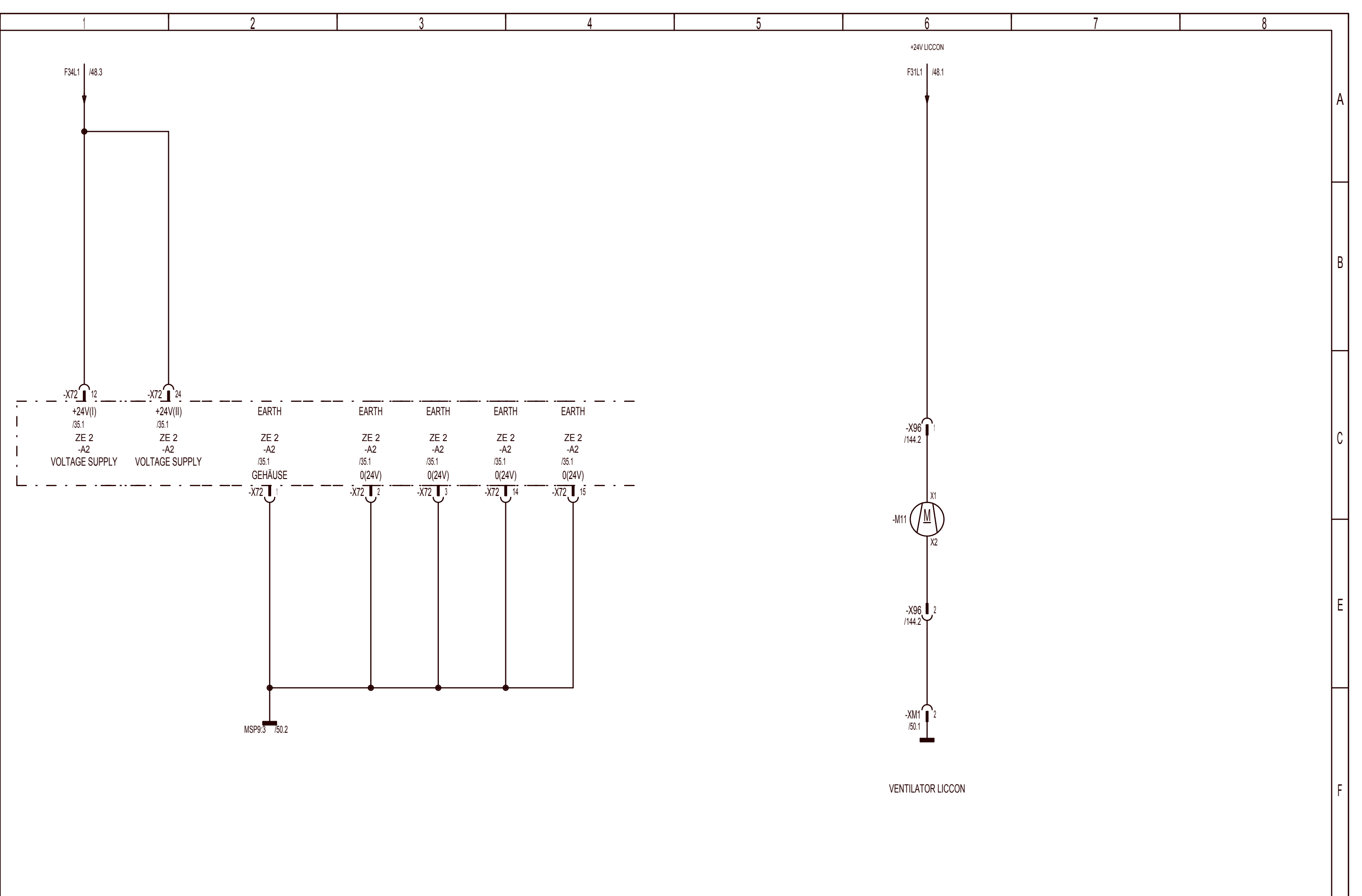


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	I/O-MODULE 6  ( VOLTAGE SUPPLY )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	60
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

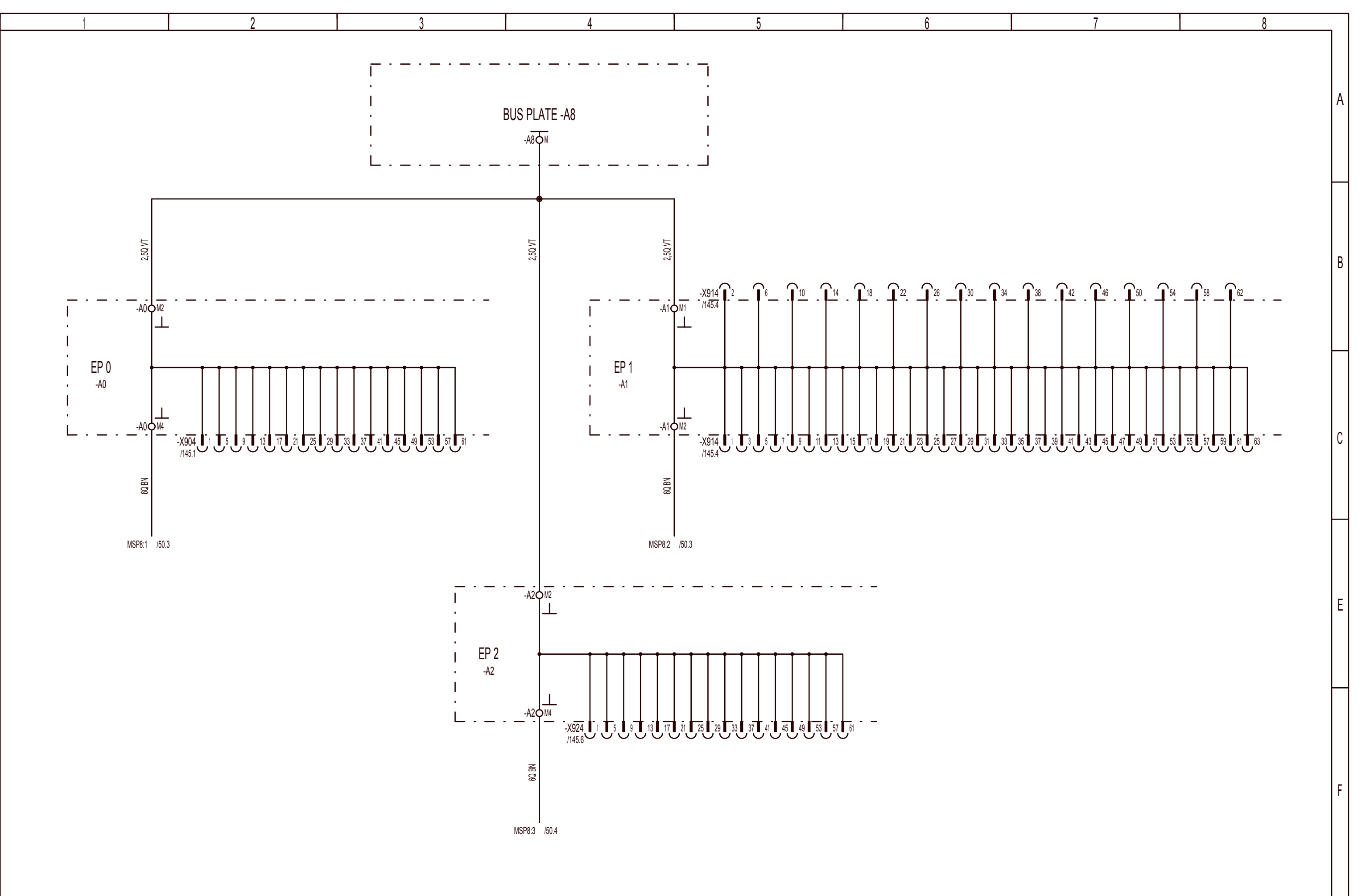




3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CENTRAL UNIT 0 ( VOLTAGE SUPPLY ) ,  CENTRAL UNIT 1 ( VOLTAGE SUPPLY )	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerof0					+	S20
1											
	Änderung	Datum	Name		Datum	Name		Copyright (c)	Zeich-Nr.	3372-932.04.00.001-001	Blatt
										von	165



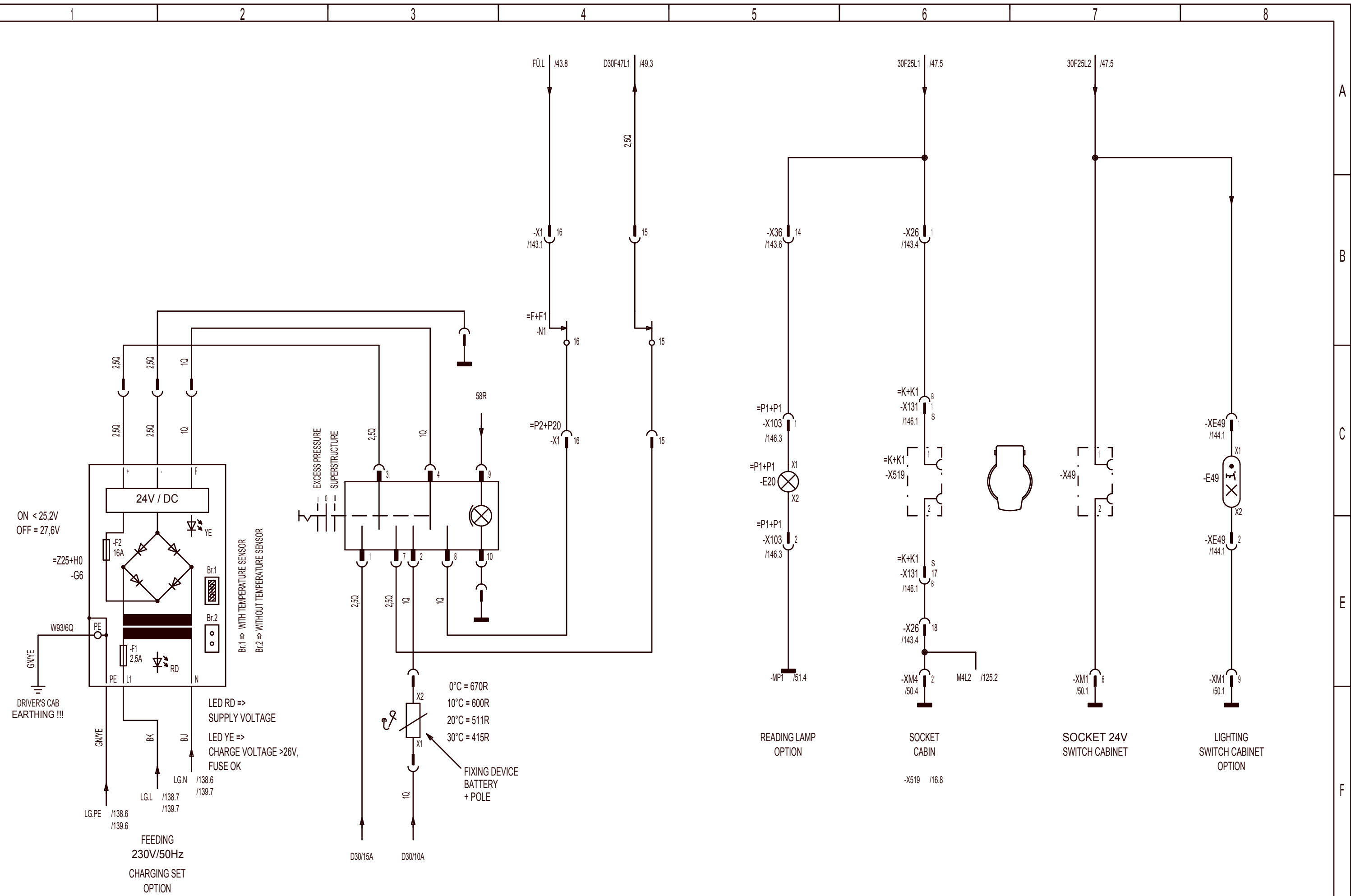
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CENTRAL UNIT 2 ( VOLTAGE SUPPLY ) ,  VENTILATOR LICCON	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	63
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		



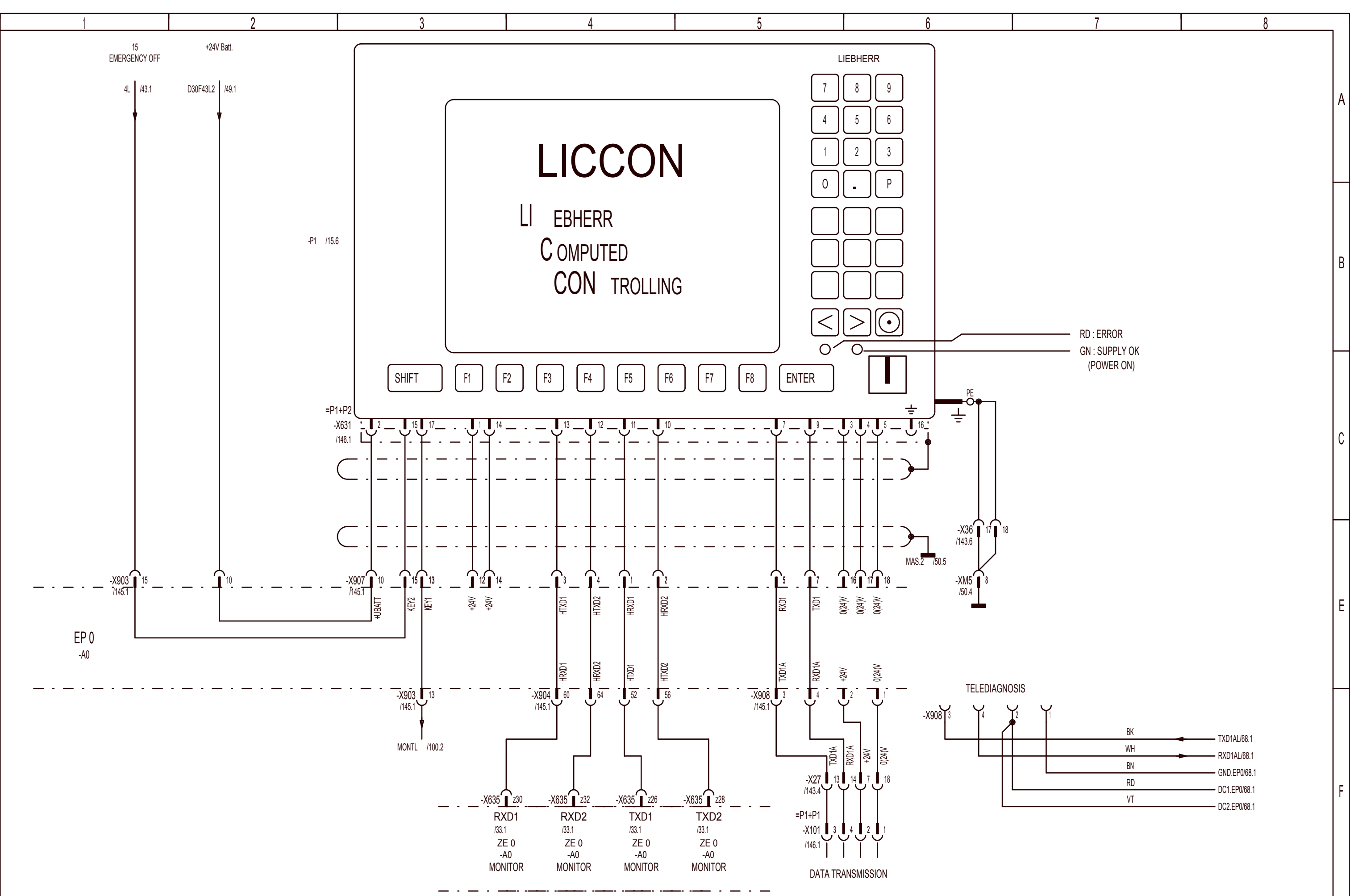
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK  EHINGEN	INPUT BOARD EP0 / EP1 / EP2  ( EARTH )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	64
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



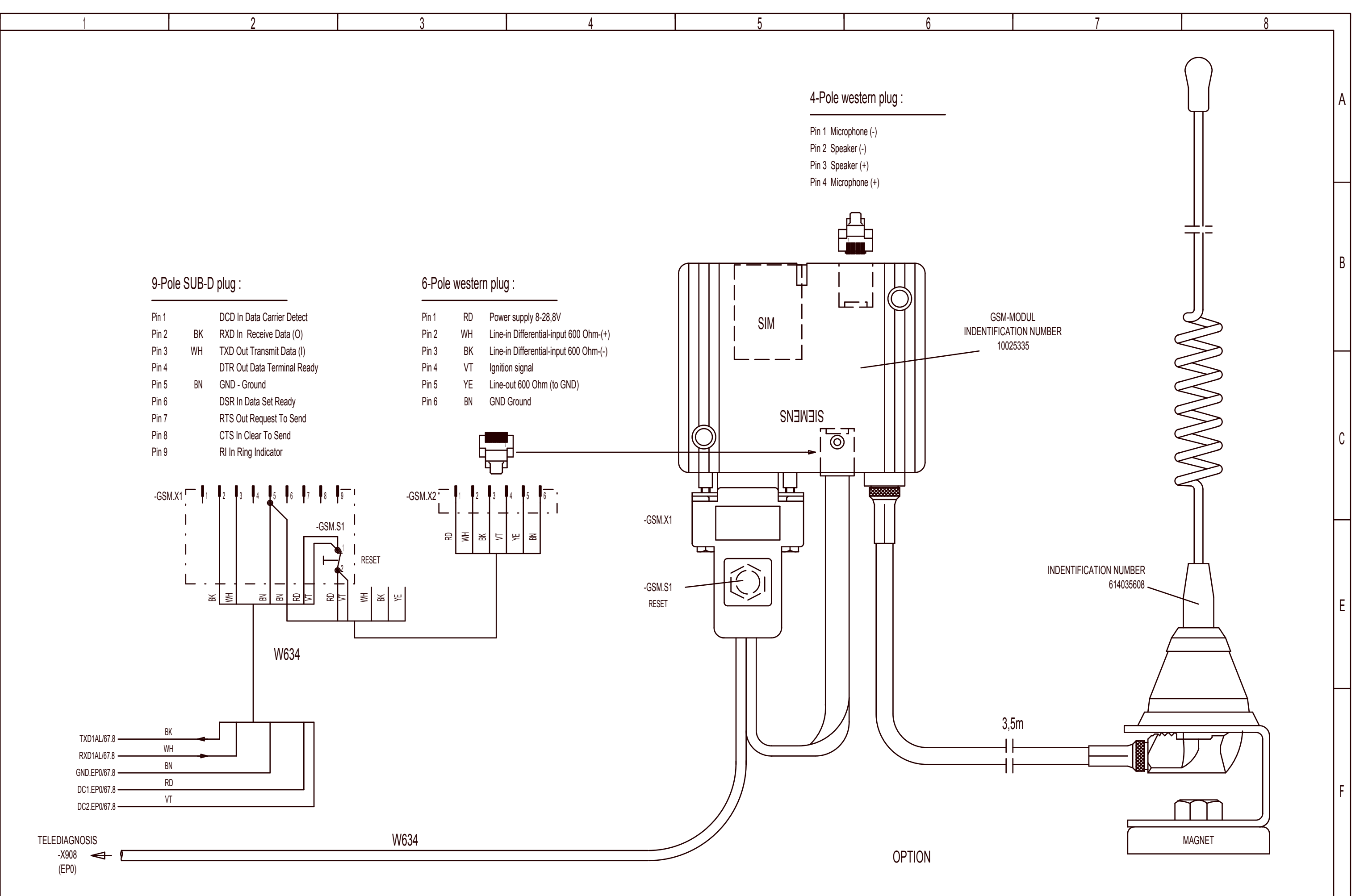




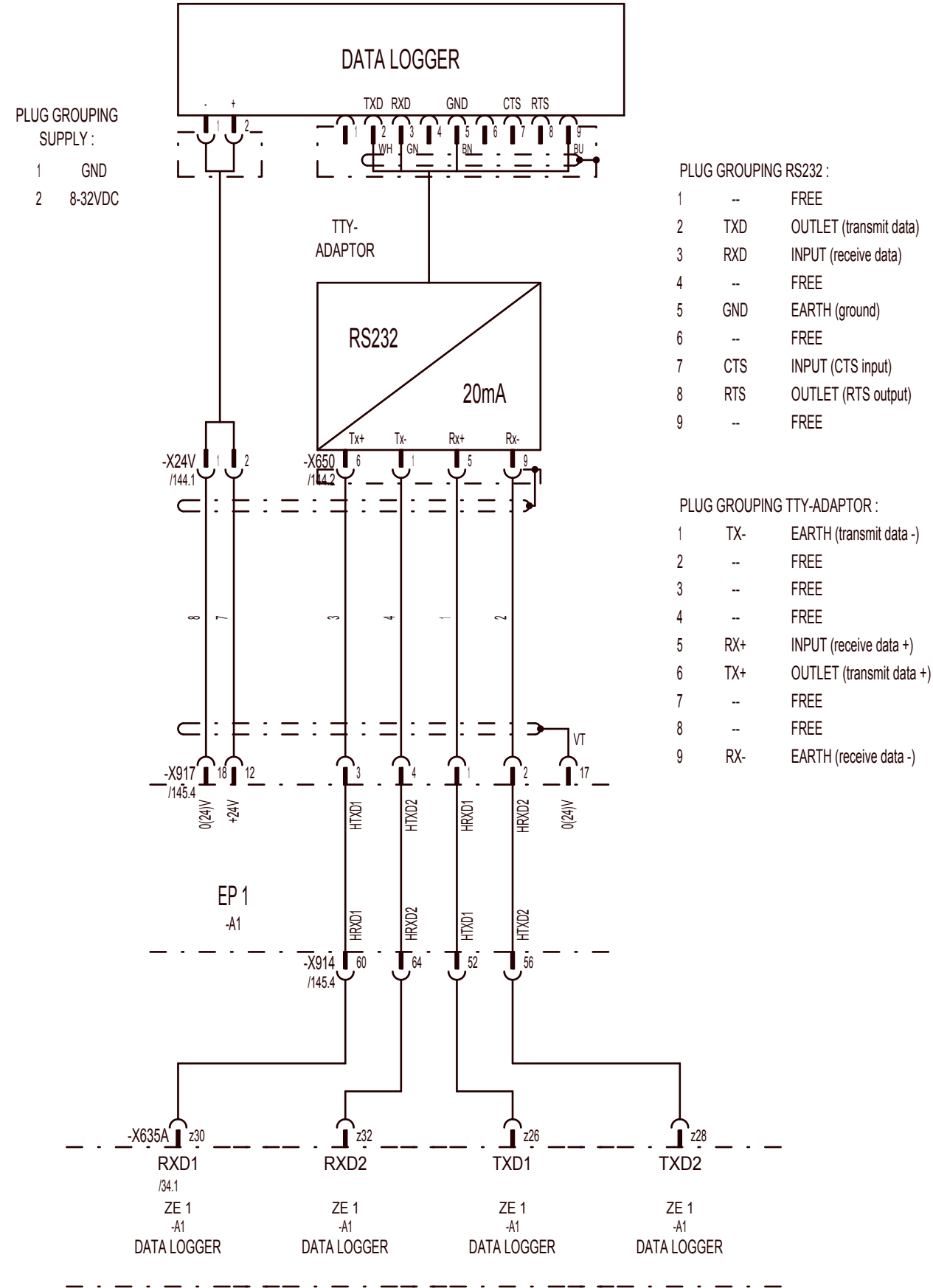
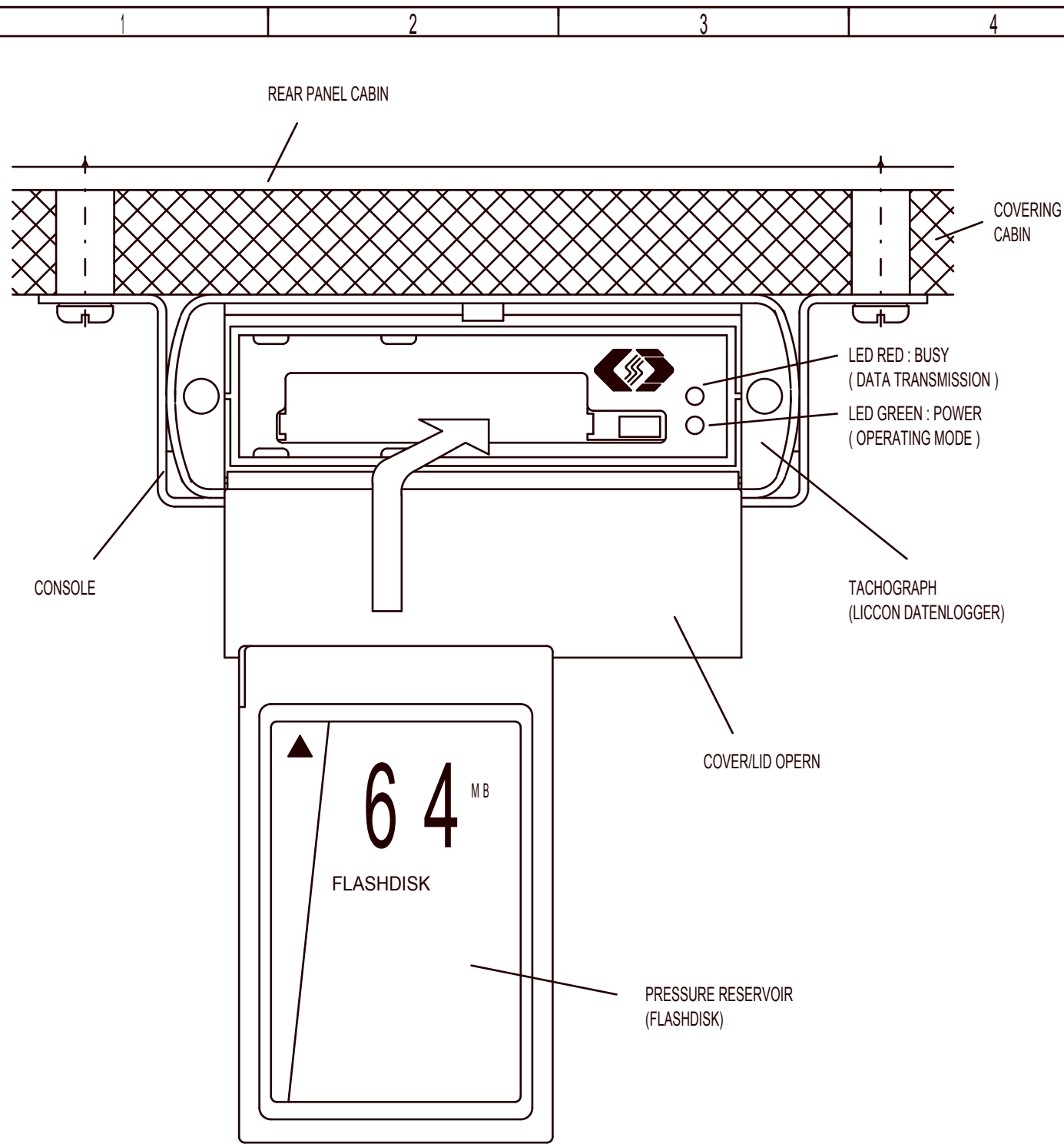
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CHARGING SET , READING LAMP , SOCKETS 24V ,  LIGHTING SWITCH CABINET	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	66
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



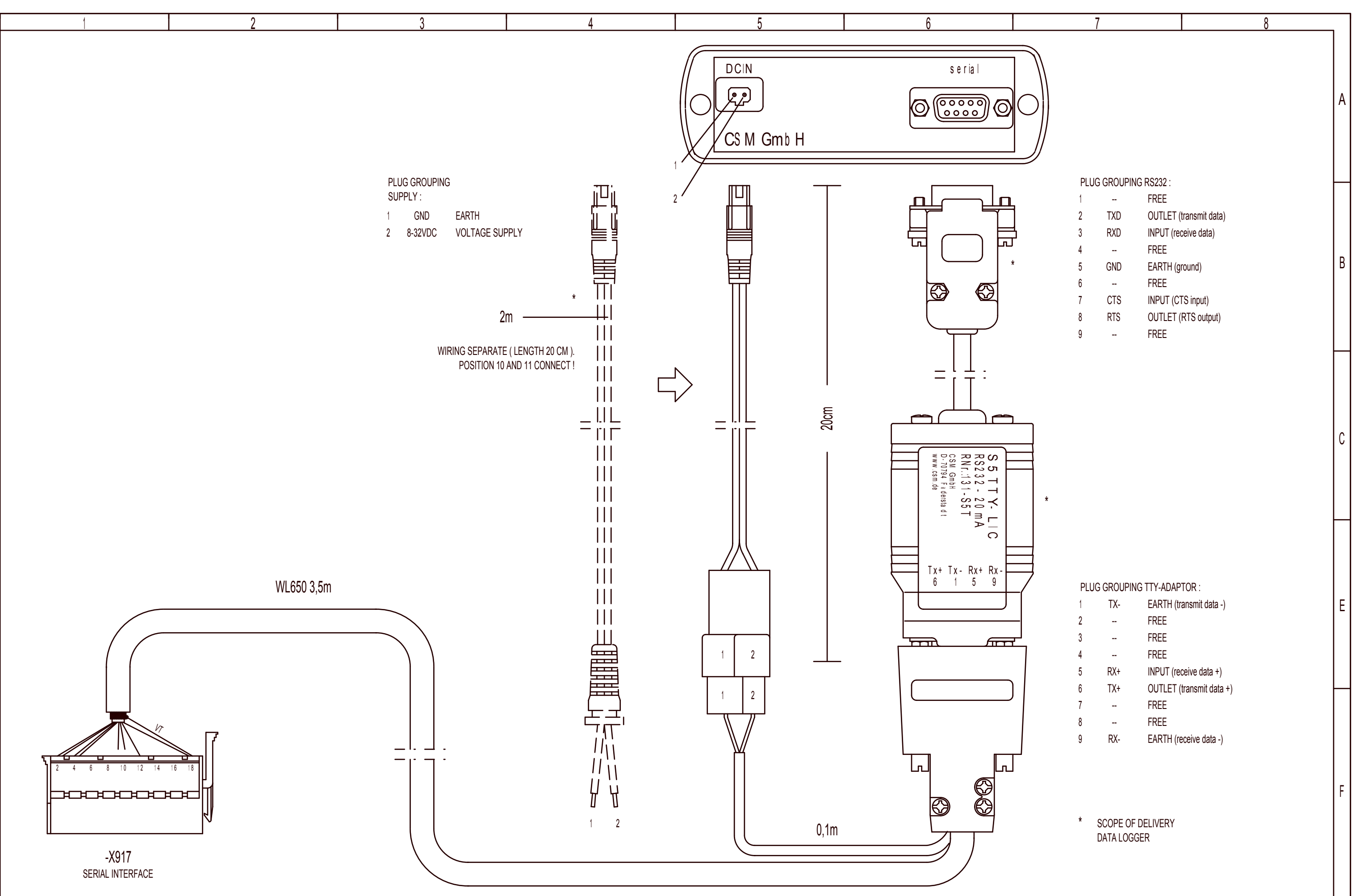
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	MONITOR	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	67
	Änderung	Datum	Name		Datum	Name			Copyright (c)	von	165	



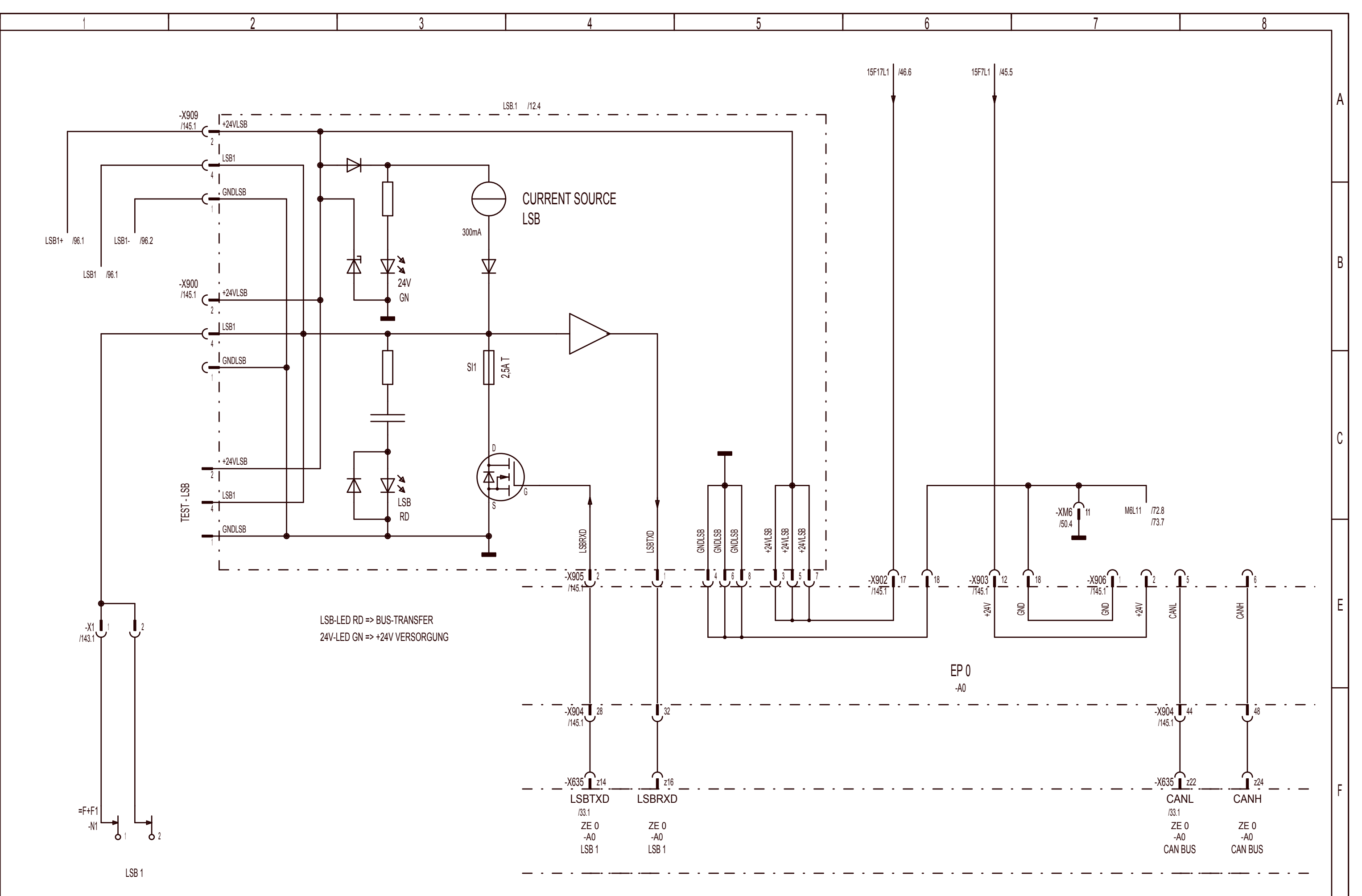
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	TELEDIAGNOSIS GSM  ( TC35 Terminal )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	68
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	



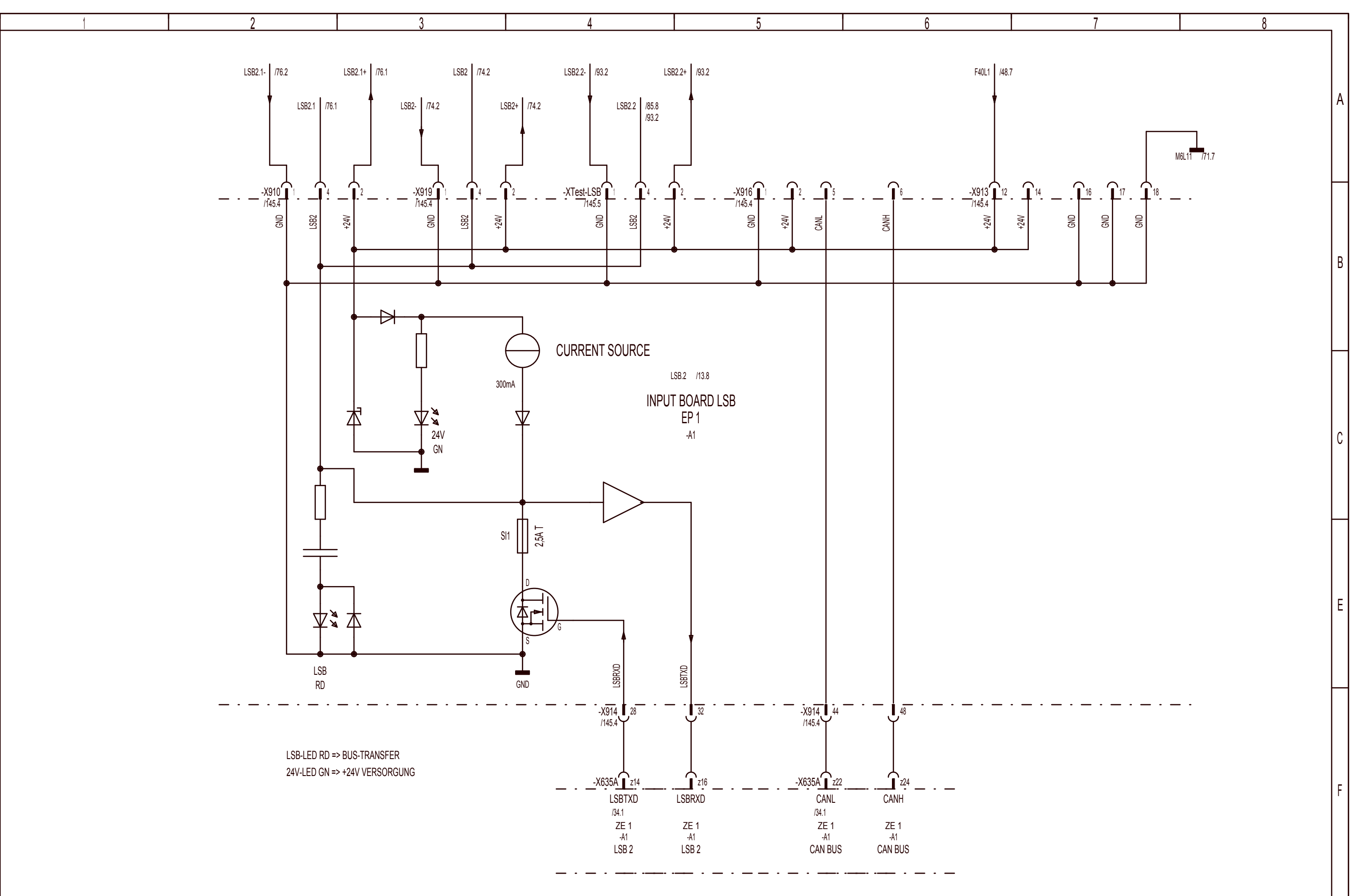
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DATA LOGGER LICCON ,  TACHOGRAPH LICCON	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	69
	Änderung	Datum	Name							Datum	Name	Copyright (c)



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DATA LOGGER LICCON ,  TACHOGRAPH LICCON	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	70
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

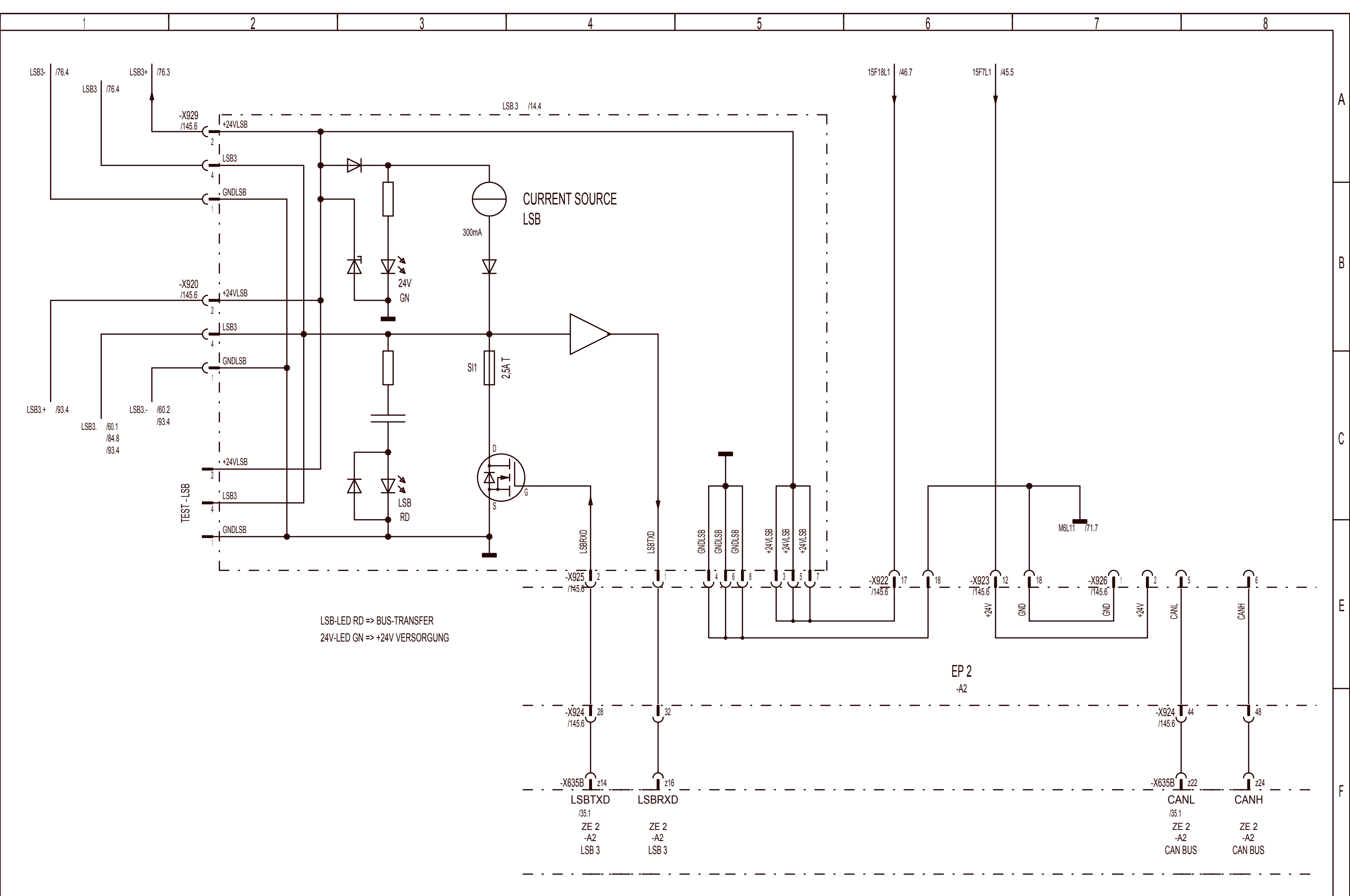


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	INPUT BOARD EP 0  WITH BEDPLATE LSB 1	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	71
	Änderung	Datum	Name		Datum	Name			Copyright (c)		3372-932.04.00.001-001	von

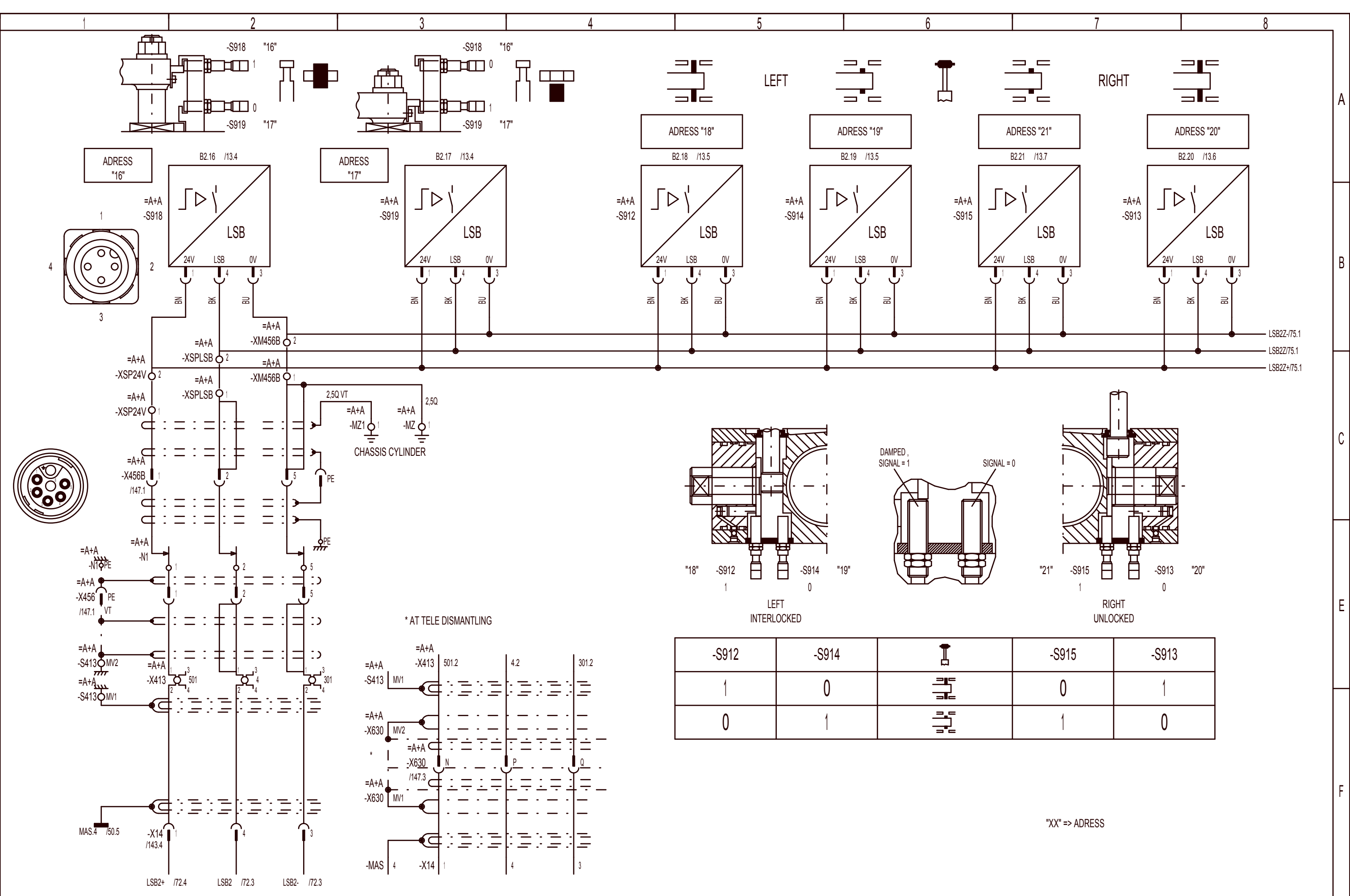


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	INPUT BOARD EP 1 / LSB 2	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	72
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	



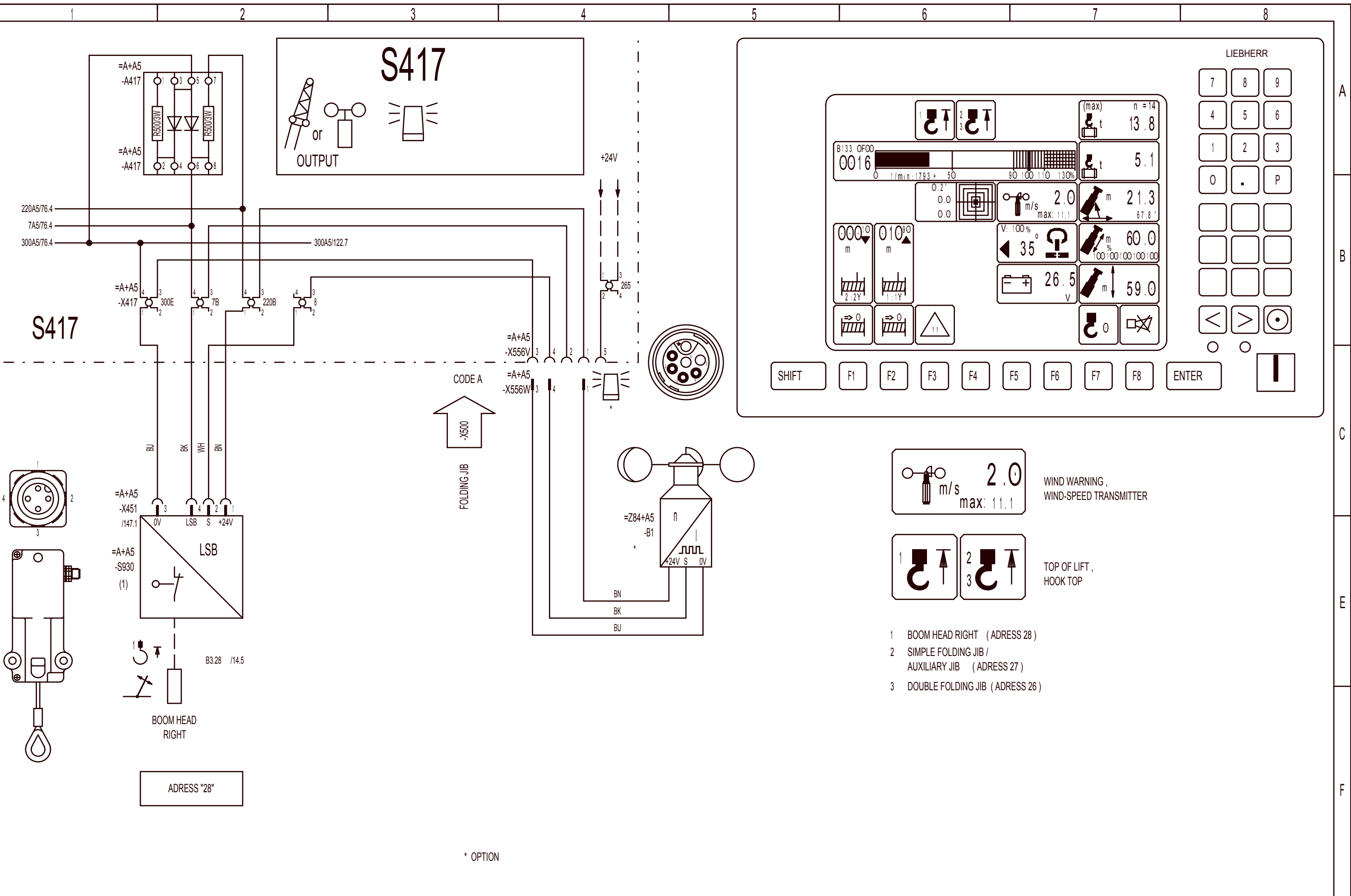


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	INPUT BOARD EP 2  WITH BEDPLATE LSB 3	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	73
	Änderung	Datum	Name							Datum	Name	Copyright (c)









			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	TOP OF LIFT , HOISTING LIMIT SWITCH TELESC. SECTION ,  WIND WARNING	Ident-Nr.	984061308	=	S20
			Ausgabe	02.02.06	lwerof0			+	S20		
								Zeich-Nr.	3372-932.04.00.001-001	Blatt	77
Änderung	Datum	Name		Datum	Name			Copyright (c)			von

\* OPTION





## Y2-ADAPTOR

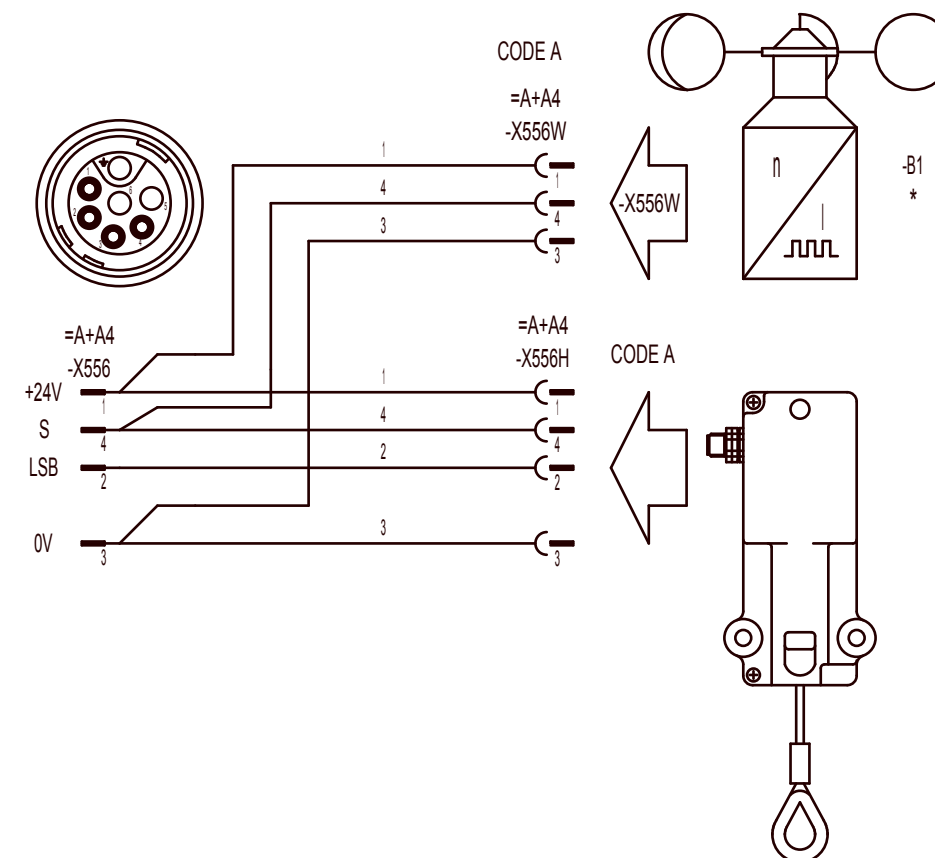
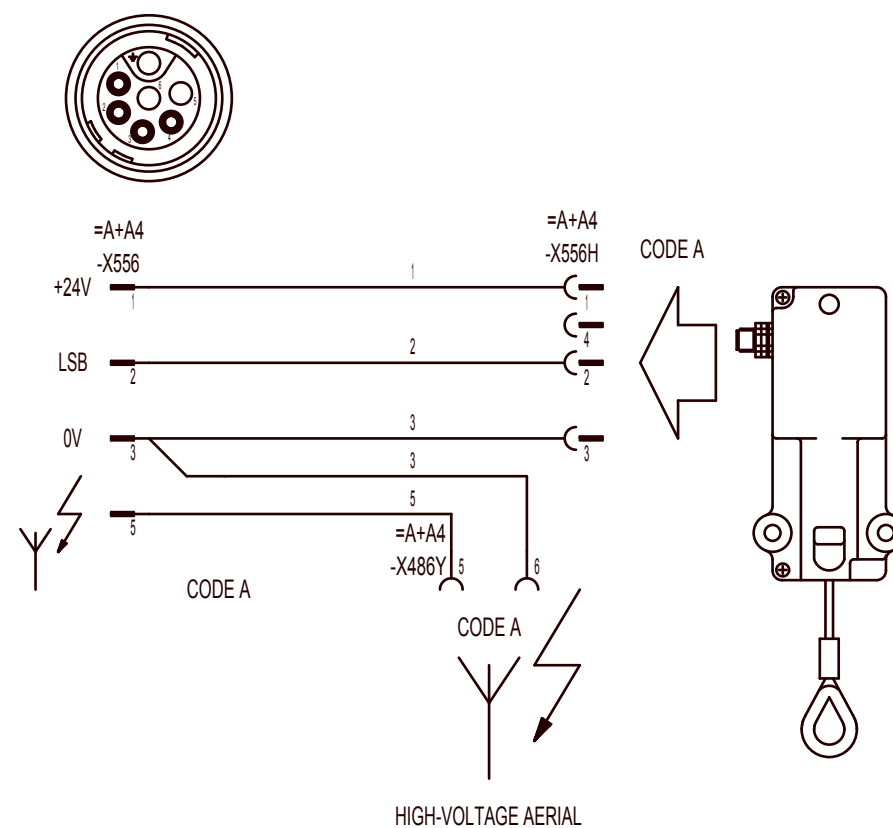
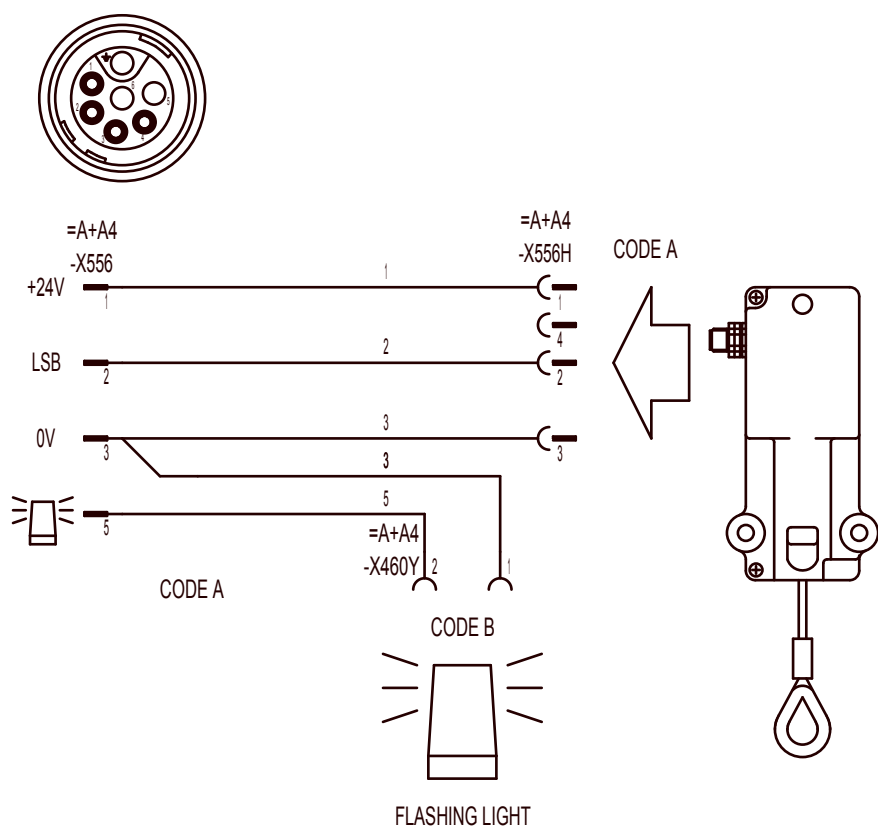
## HOISTING LIMIT SWITCH / FLASHING LIGHT

## Y3-ADAPTOR

## HOISTING LIMIT SWITCH / HIGH-VOLTAGE AERIAL

## Y4-ADAPTOR

## HOISTING LIMIT SWITCH / WIND WARNING



1

1

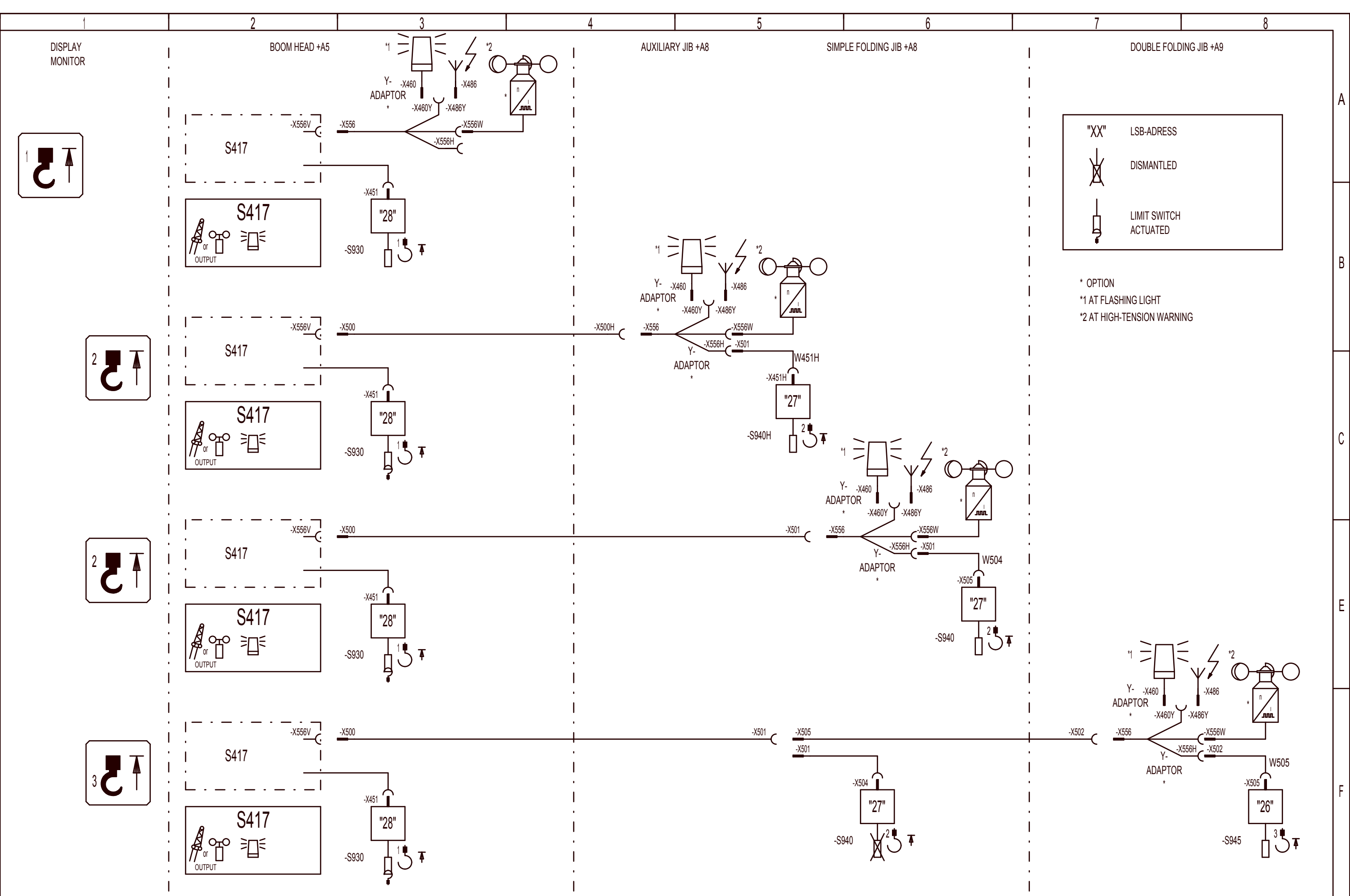
10

1

1

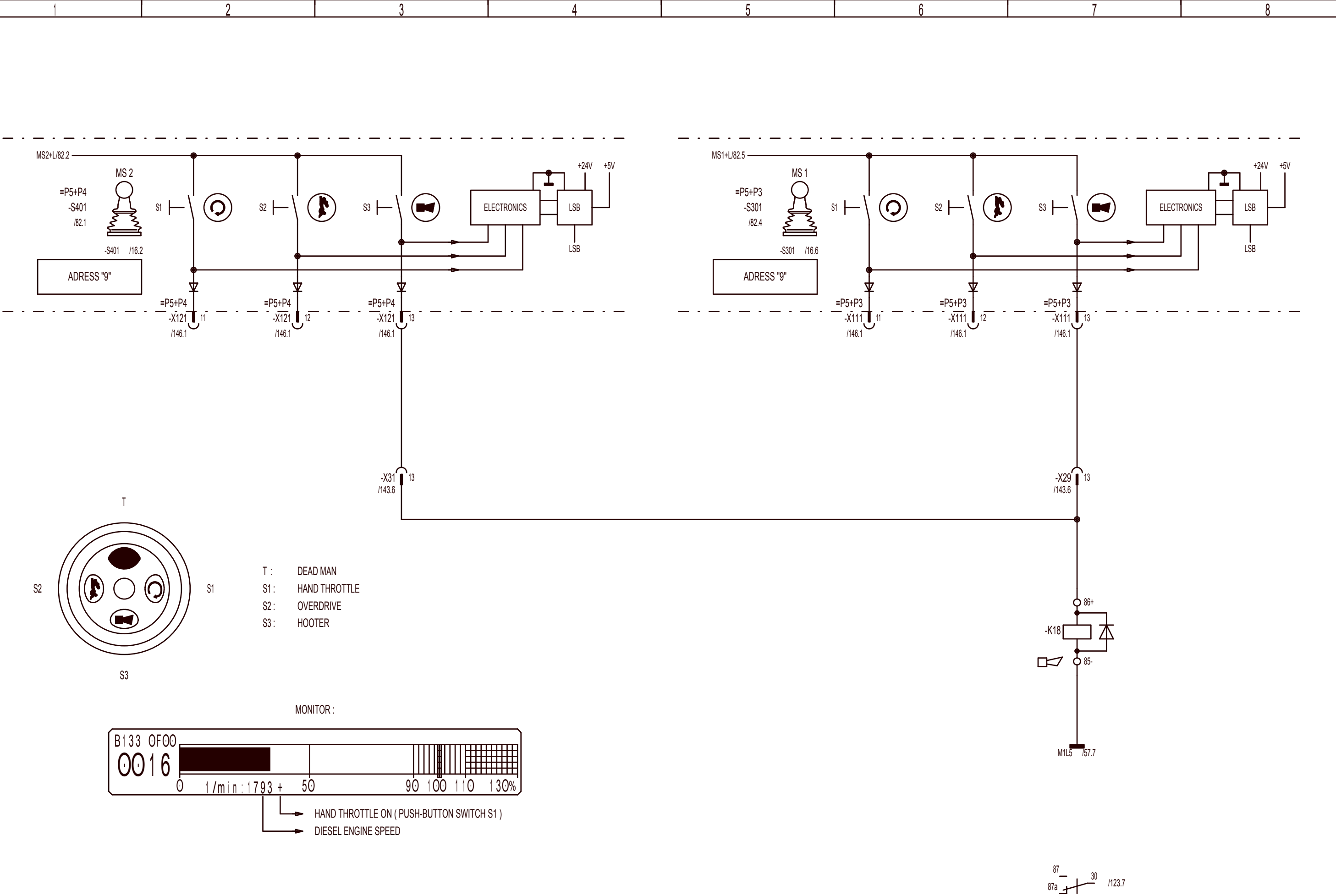
3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	FLASHING LIGHT , WIND WARNING ,  HIGH-TENSION WARNING	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerofo			+	S20		
1						Zeich-Nr.		3372-932.04.00.001-001	Blatt	80	
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165		





3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	GENERAL OUTLAY HOISTING LIMIT SWITCH ,  HOISTING LIMIT SWITCH ( EQUIPMENT CONFIGURTION )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	81
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



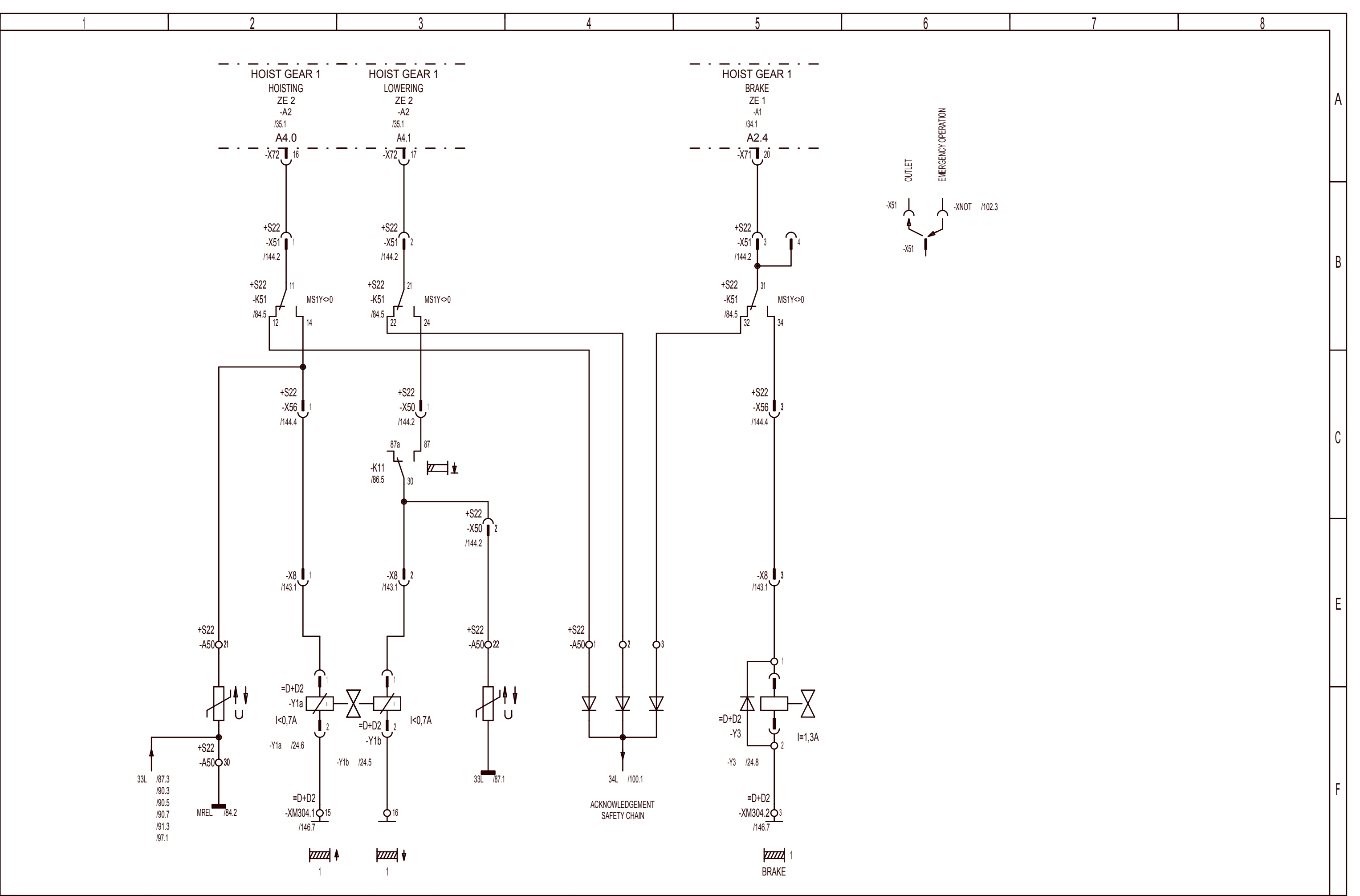


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	MASTER SWITCH LEFT / RIGHT ,  HAND THROTTLE , OVERDRIVE , HOOTER	Ident-Nr.	984061308	=	S20	
2				Ausgabe	02.02.06	lwerof0			+	S20			
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	83	
	Änderung	Datum	Name		Datum	Name	Copyright (c)					von	165







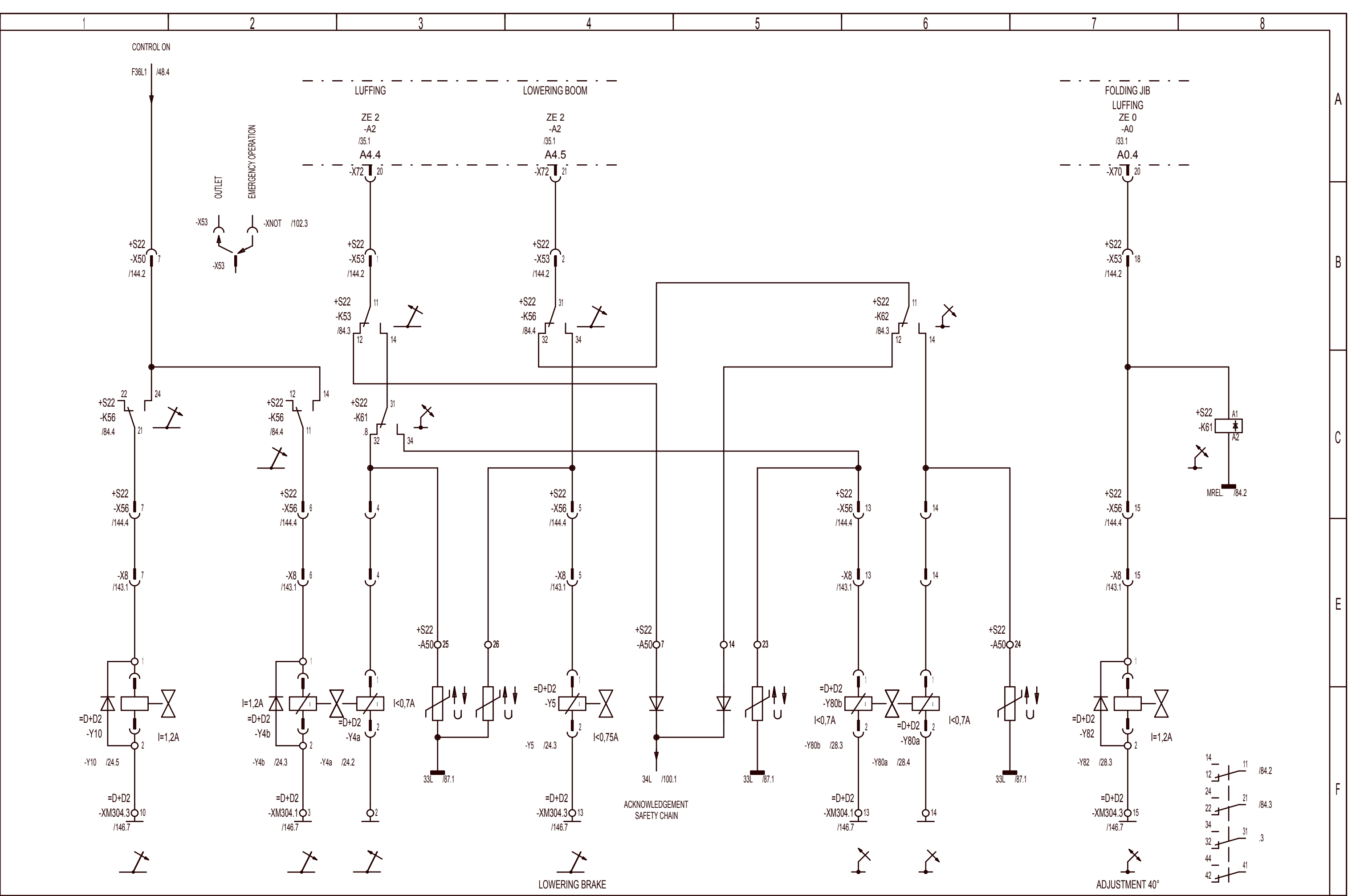


3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	HOIST GEAR 1 ,  WINCH 1	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerofo			+	S20		
1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	87
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165		

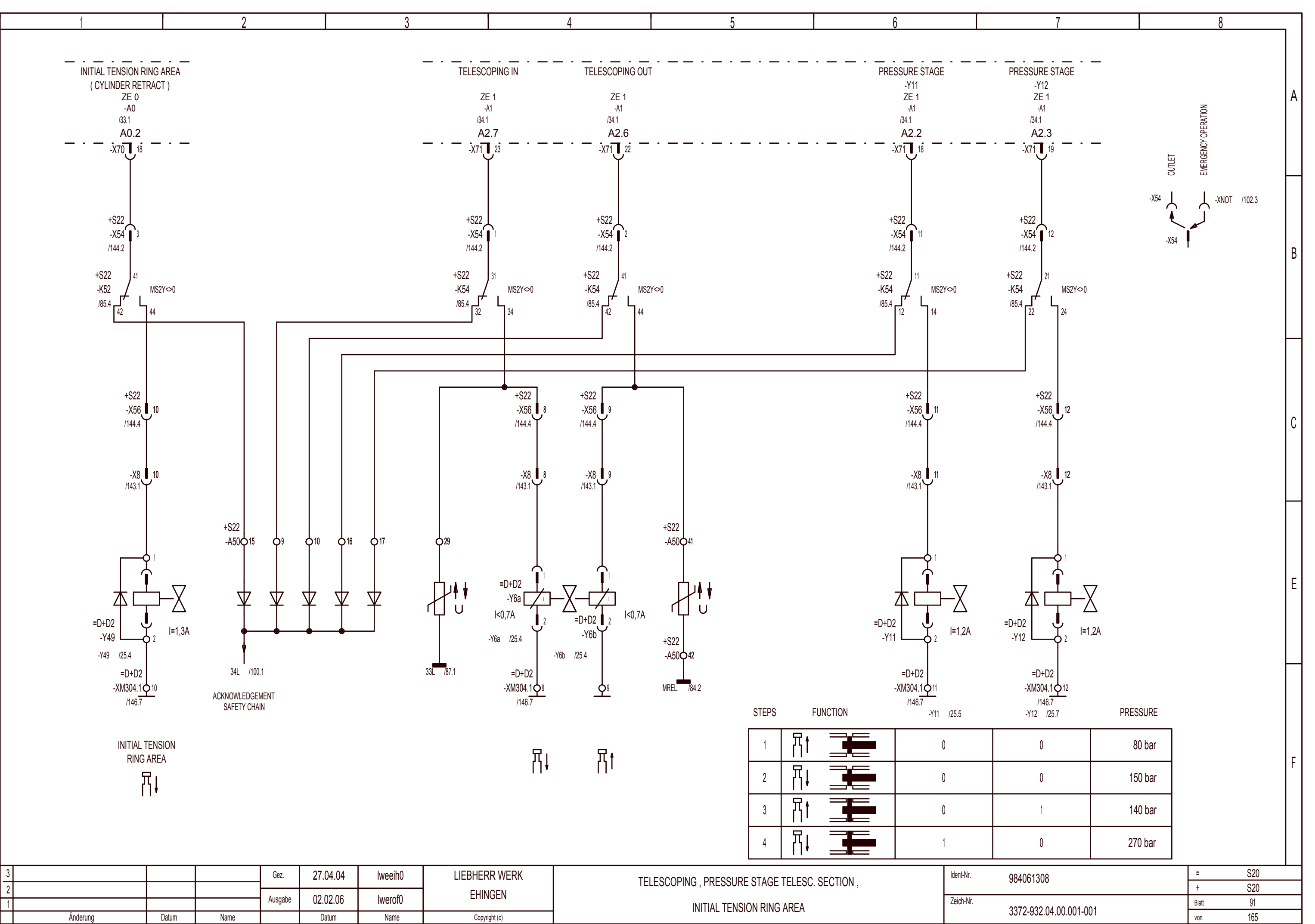


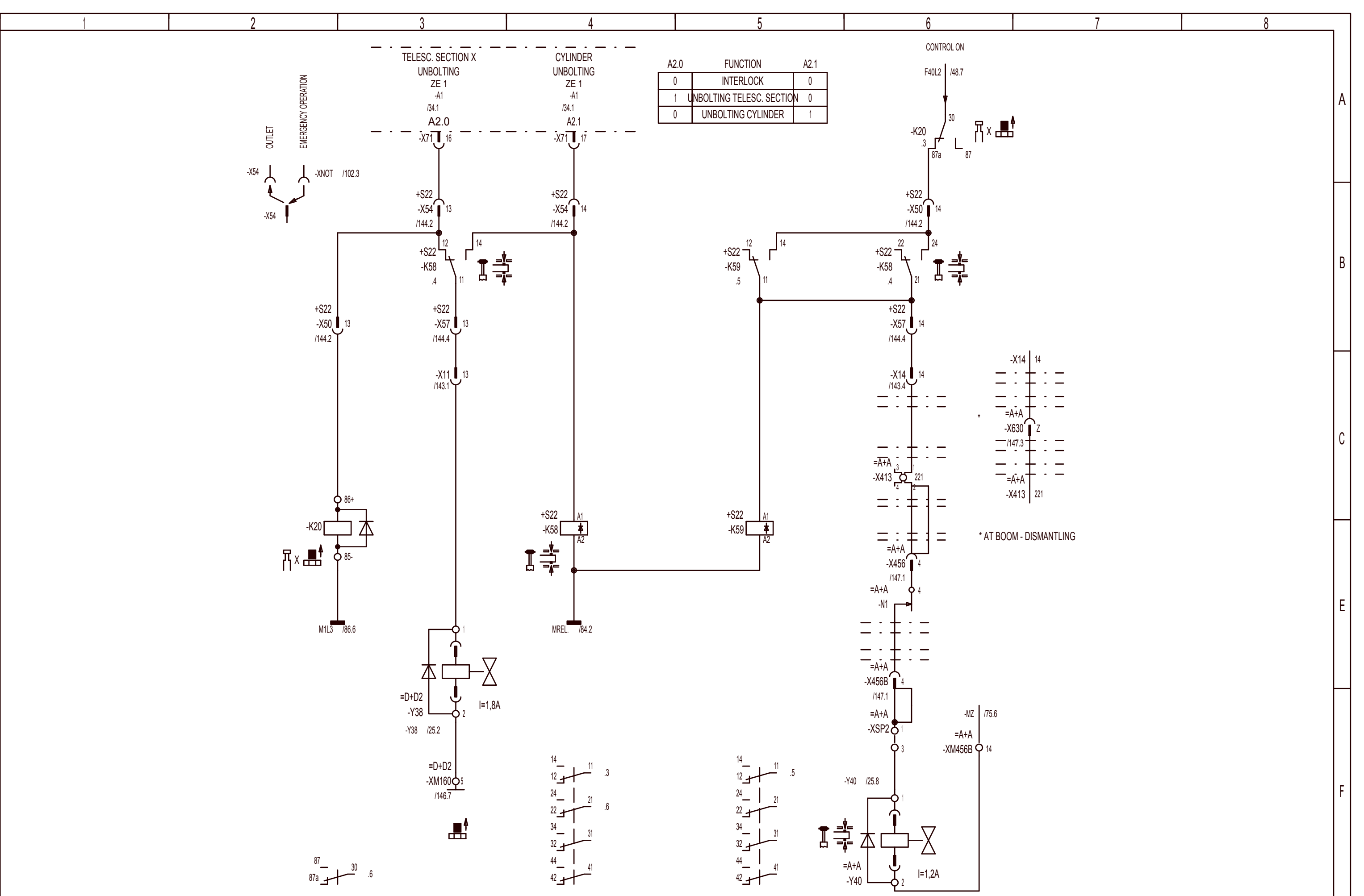






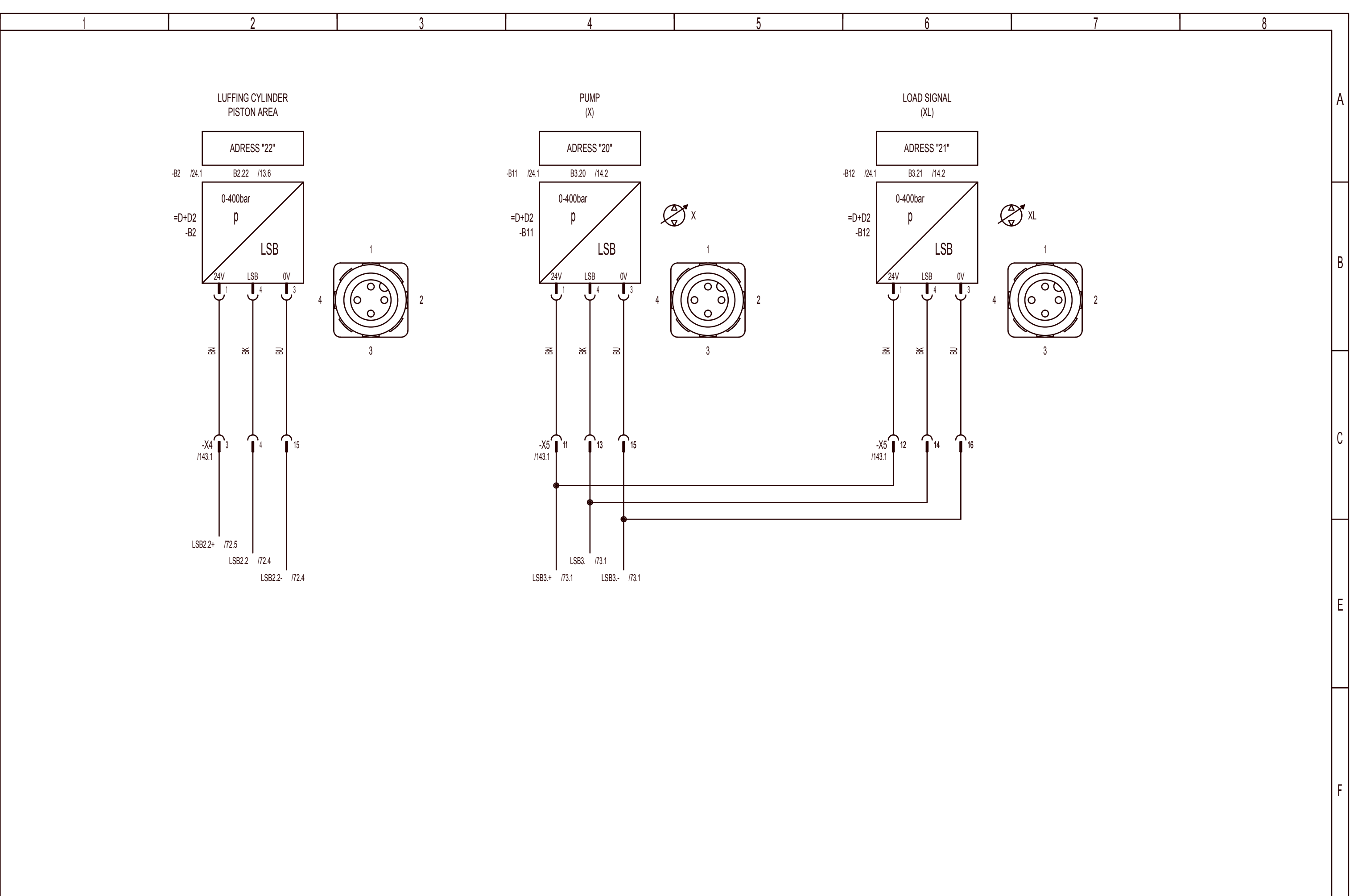
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	LUFFING , LOWERING BRAKE LOWERING BOOM ,  LUFFING FOLDING JIB , FOLDING JIB LUFFABLE	Ident-Nr.	984061308	=	S20	
2				Ausgabe	02.02.06	lwerof0			EHINGEN	Zeich-Nr.	3372-932.04.00.001-001	+	S20
1												Änderung	Datum
									von	165			





A2.0	FUNCTION	A2.1
0	INTERLOCK	0
1	UNBOLTING TELESC. SECTION	0
0	UNBOLTING CYLINDER	1

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	TELESC. SECT. INTERLOCK ,  CYLINDER UNBOLTING , TELESC. SECTION UNBOLTING	Ident-Nr.	984061308	=	S20	
2				Ausgabe	02.02.06	lwerof0			EHINGEN	Zeich-Nr.	3372-932.04.00.001-001	+	S20
1												Blatt	92
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165	



LOAD SIGNAL  
(XL)

ADRESS "21"

0-400bar  
p

LSB

-B12 /24.1

B3.21 /14.2

=D+D2  
-B12

24V

LSB

0V

1

4

3

BN

BK

BU

-X5 /143.1

12

14

16

LSB2.2+ /72.5

LSB2.2 /72.4

LSB2.2- /72.4

1

2

3

4

XL

1

2

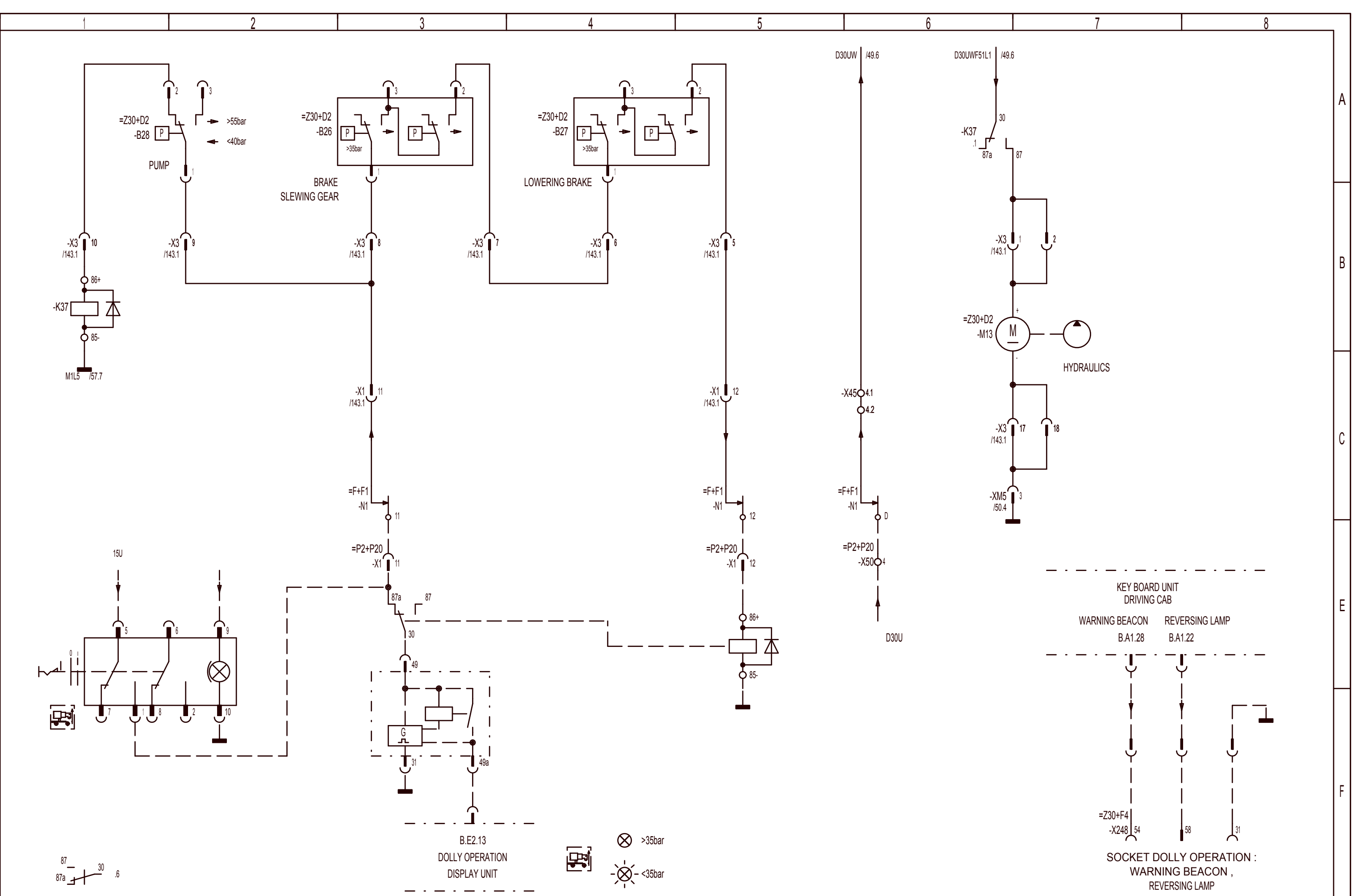
3

4

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	PRESSURE SENSOR LUFFING CYLINDER ,  PRESSURE SENSOR PUMP , PRESSURE SENSOR LOAD SIGNAL	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	93
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



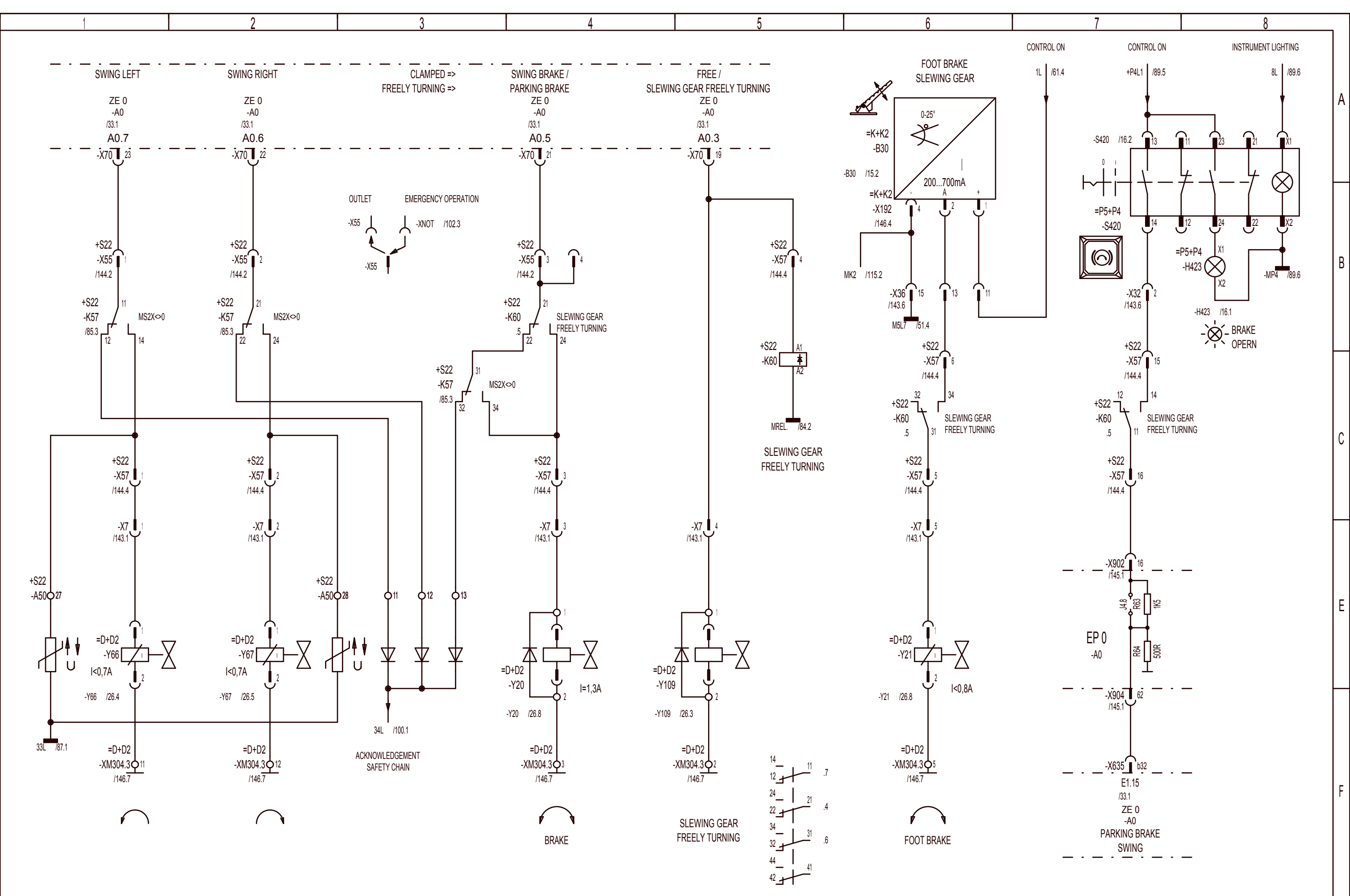
3				Gez.	27.04.04	Iweeih0	LIEBHERR WERK EHINGEN	PUMP CONTROL ,  PUMP 1 , PUMP 2	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	Iwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	94
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DOLLY OPERATION ( OPTION ) ,  RELEASING DOLLY OPERATION	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	95
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165













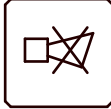


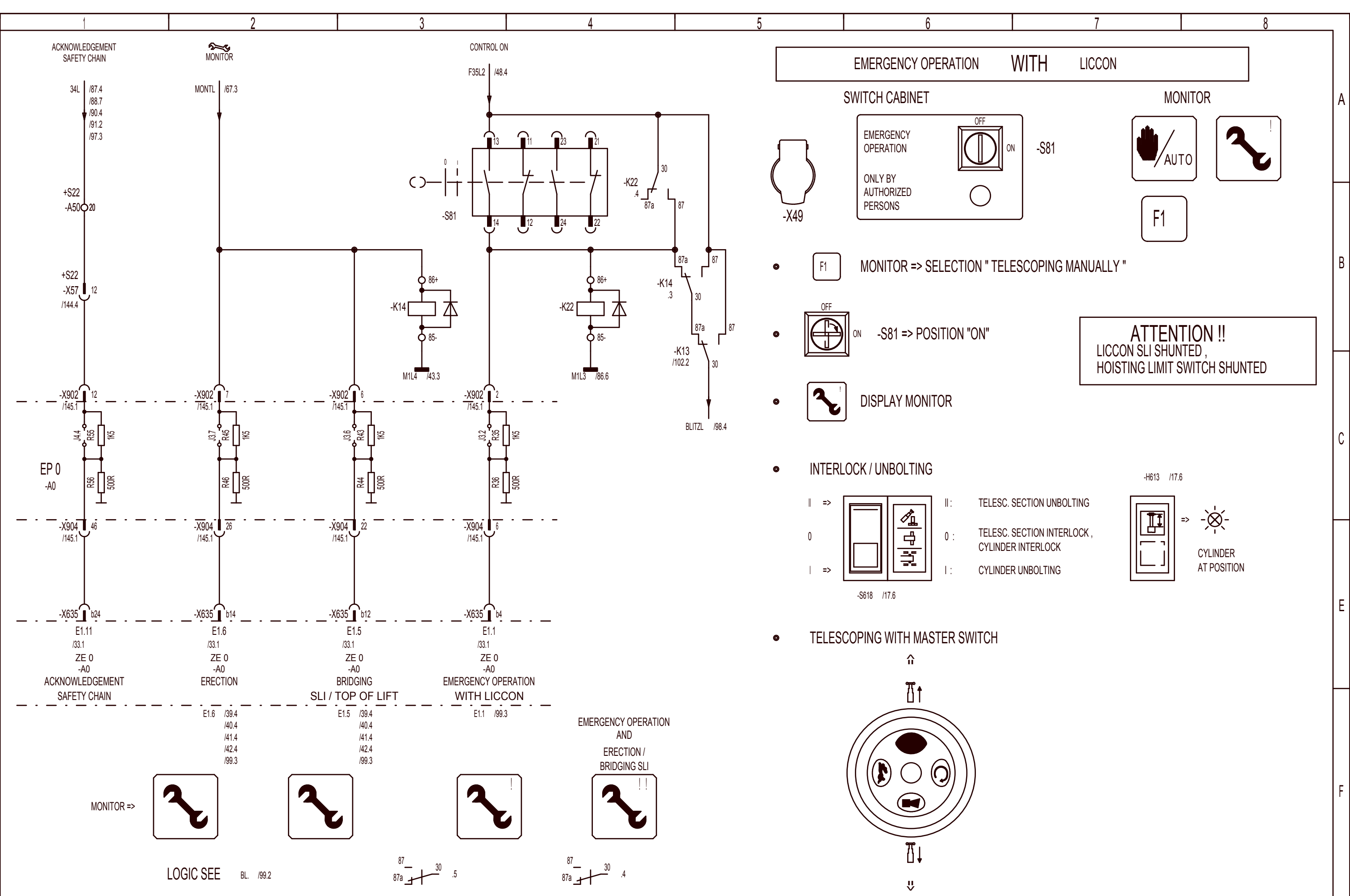




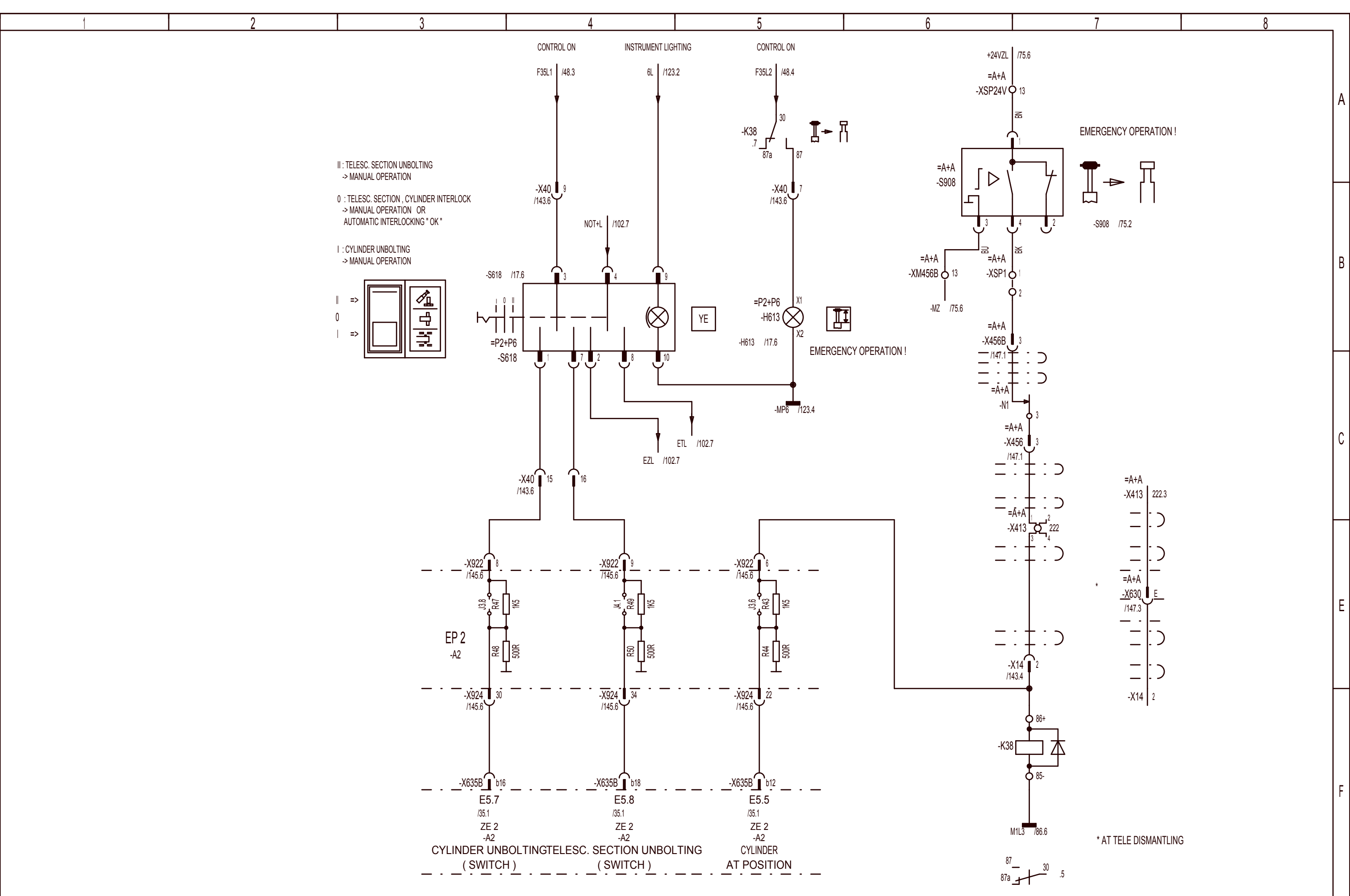
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	SLEWING GEAR , SLEWING GEAR FREELY TURNING ,  FOOT BRAKE SLEWING GEAR , PARKING BRAKE	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Blatt	97		
	Änderung	Datum	Name		Datum	Name	Copyright (c)		3372-932.04.00.001-001	von	165	



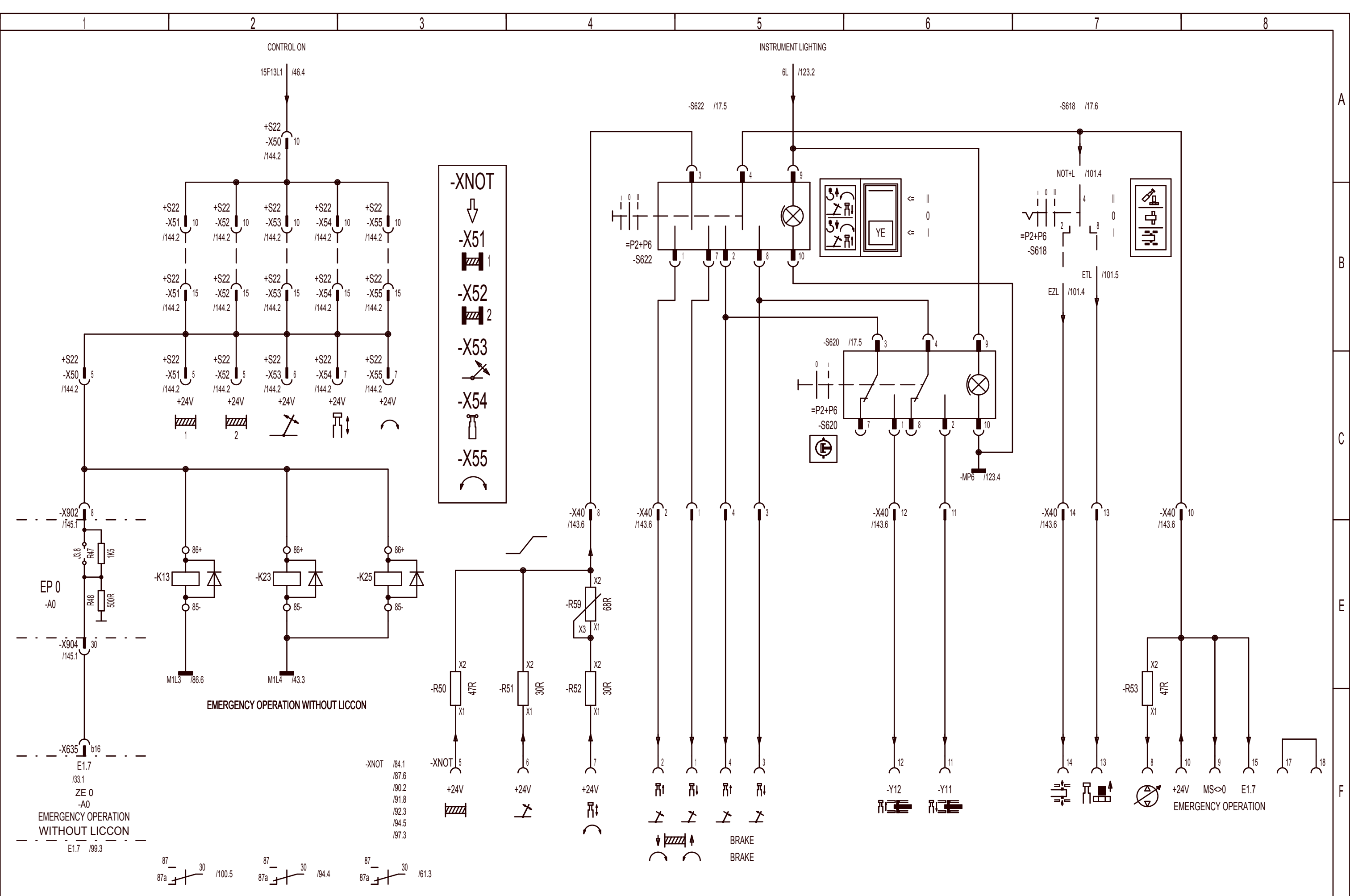
1	2	3	4	5	6	7	8											
LOGIC			OPERATOR						PERSONS IN DANGER ZONE									
BL. /98.4 /100.2			ACUSTICAL WARNING		OPTICAL WARNING - SYMBOLS LICCON MONITOR				ACUSTICAL WARNING	OPTICAL WARNING								
FUNCTION	SIGNAL	 SLOWLY	 QUICK	 PRE-WARNING	 CUTOFF				BELL SUPERSTRUCTURE -H80 /98.3	FLASHING LIGHT CABIN ROOF -H21 /98.4								
CRANE OPERATION , ERECTION , DISMANTLING .	SLI PRE-WARNING ( RATE OF UTILIZATION >90% ) A0.1 /98.4	X <sup>2</sup>		X														
CRANE OPERATION , ERECTION , DISMANTLING .	SLI CUTOFF ( RATE OF UTILIZATION >100% ) A0.0 /98.3		X <sup>2</sup>		X				X <sup>1</sup>									
MONITOR 	ERECTION E1.6 /100.2					X		X	X <sup>2</sup>	X								
KEY-OPERATED SWITCH OR -S81 PLUG -XNOT 	EMERGENCY OPERATION E1.1 /100.3 E1.7 /102.1						X				X							
MONITOR 	BRIDGING SLI / TOP OF LIFT E1.5 /100.3					X		X	X	X								
SHIFT 	" WITHOUT MOTOR " BRIDGING						X											
			X	NOT CAN BE SHUT OFF		X <sup>1</sup>	CAN BE SHUT OFF AFTER 5 SEC.		X <sup>2</sup>	CAN BE SHUT OFF IMMEDIATELY								
							-S323 CONTROL STAND			MONITOR								
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN				Ident-Nr.	984061308	=	S20				
2				Ausgabe	02.02.06	lwerof0					Zeich-Nr.	3372-932.04.00.001-001	+	S20				
1													Blatt	99				
	Änderung	Datum	Name		Datum	Name	Copyright (c)						von	165				



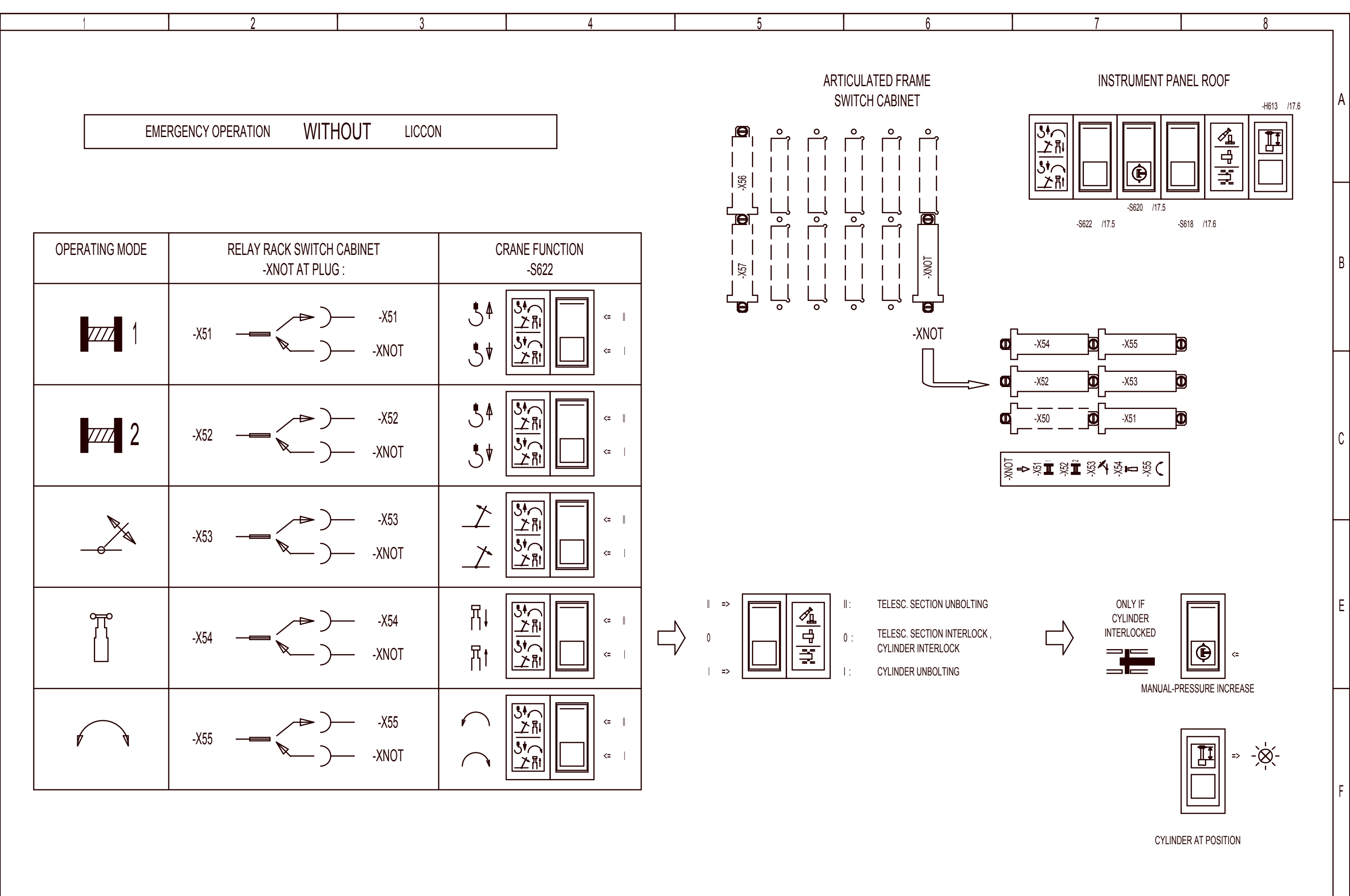
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	ACKNOWLEDGEMENT SAFETY CHAIN ,  ERECTION , EMERGENCY OPERATION WITH LICCON	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	100
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	TELESC. SECT. INTERLOCK ( MANUAL OPERATION ) ,  CYLINDER ( POSITION ) , EMERGENCY OPERATION	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	101
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	EMERGENCY OPERATION WITHOUT LICCON		Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0				Zeich-Nr.	3372-932.04.00.001-001	+	S20
1												Blatt	102
	Änderung	Datum	Name		Datum	Name	Copyright (c)					von	165

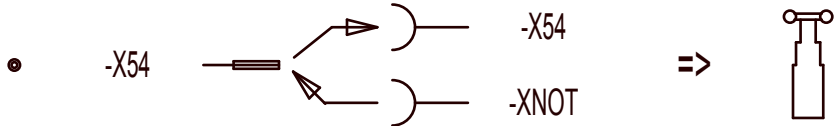


EMERGENCY OPERATION

WITHOUT

LICCON

TELESCOPING WITH PUSH-BUTTON SWITCH IN INSTRUMENT PANEL " ROOF "



TELESC. SECTION 1 - 5 INTERLOCKED , CYLINDER INTERLOCKED

- TELESC. SECTION UNBOLTING

  - SWITCH -S618 0 => II

" TELESC. SECTION UNBOLTING SELECTED "
  - PUSH-BUTTON SWITCH -S622 0 => I

" TELESCOPING OUT "

=> UP TO

" TELESC. SECTION UNLOCKED "
  - PUSH-BUTTON SWITCH -S622 FREE

- TELESCOPING IN AND TELESC. SECTION INTERLOCK

  - PUSH-BUTTON SWITCH -S622 0 => II

" TELESCOPING IN " AND
  - PUSH-BUTTON SWITCH -S620 ACTUATED

" PRESSURE STAGE 235 BAR (-Y11a AND -Y12) "
  - SWITCH -S618 II => 0

" INTERLOCK SELECTED " AND
  - PUSH-BUTTON SWITCH -S622 0 => II

" TELESCOPING IN " AND
  - PUSH-BUTTON SWITCH -S620 ACTUATED

" PRESSURE STAGE 235 BAR (-Y11a AND -Y12) "
  - => UP TO

" TELESC. SECTION INTERLOCKED "
  - PUSH-BUTTON SWITCH -S620 , -S622 FREE

- CYLINDER UNLOCKING

  - PUSH-BUTTON SWITCH -S622 0 => I

" TELESCOPING OUT "

=>

" PIN ( CYLINDER ) RELEASE "
  - PUSH-BUTTON SWITCH -S622 FREE
  - SWITCH -S618 0 => I

" CYLINDER UNLOCKED "

- CYLINDER EXTEND AND INTERLOCK

  - PUSH-BUTTON SWITCH -S622 0 => I

=> UP TO -H613

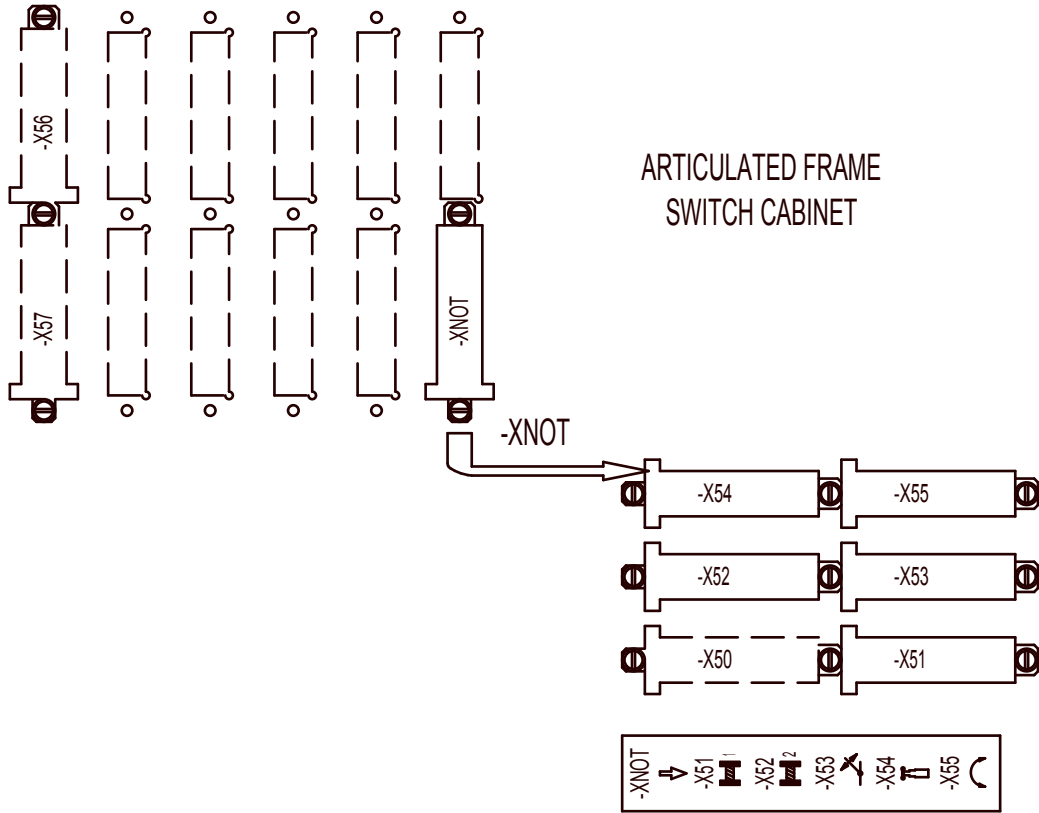
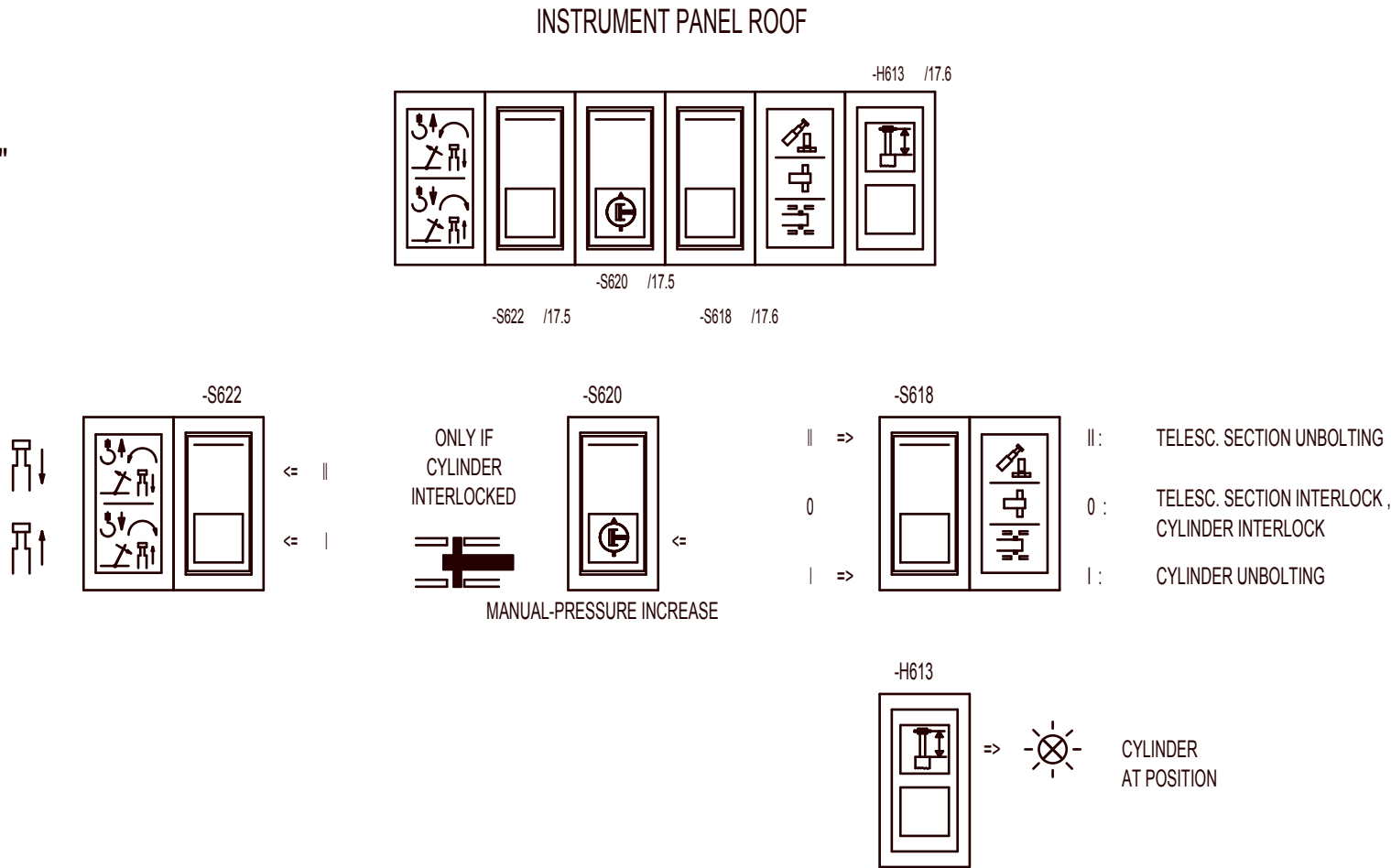
" CYLINDER EXTEND "

" CYLINDER AT POSITION "
  - SWITCH -S618 I => 0

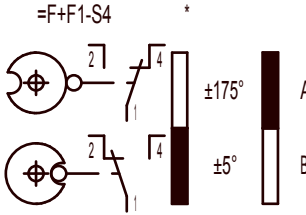
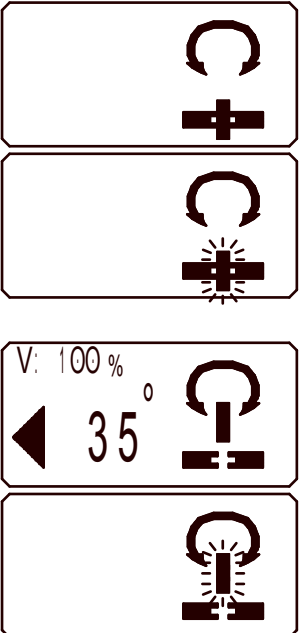
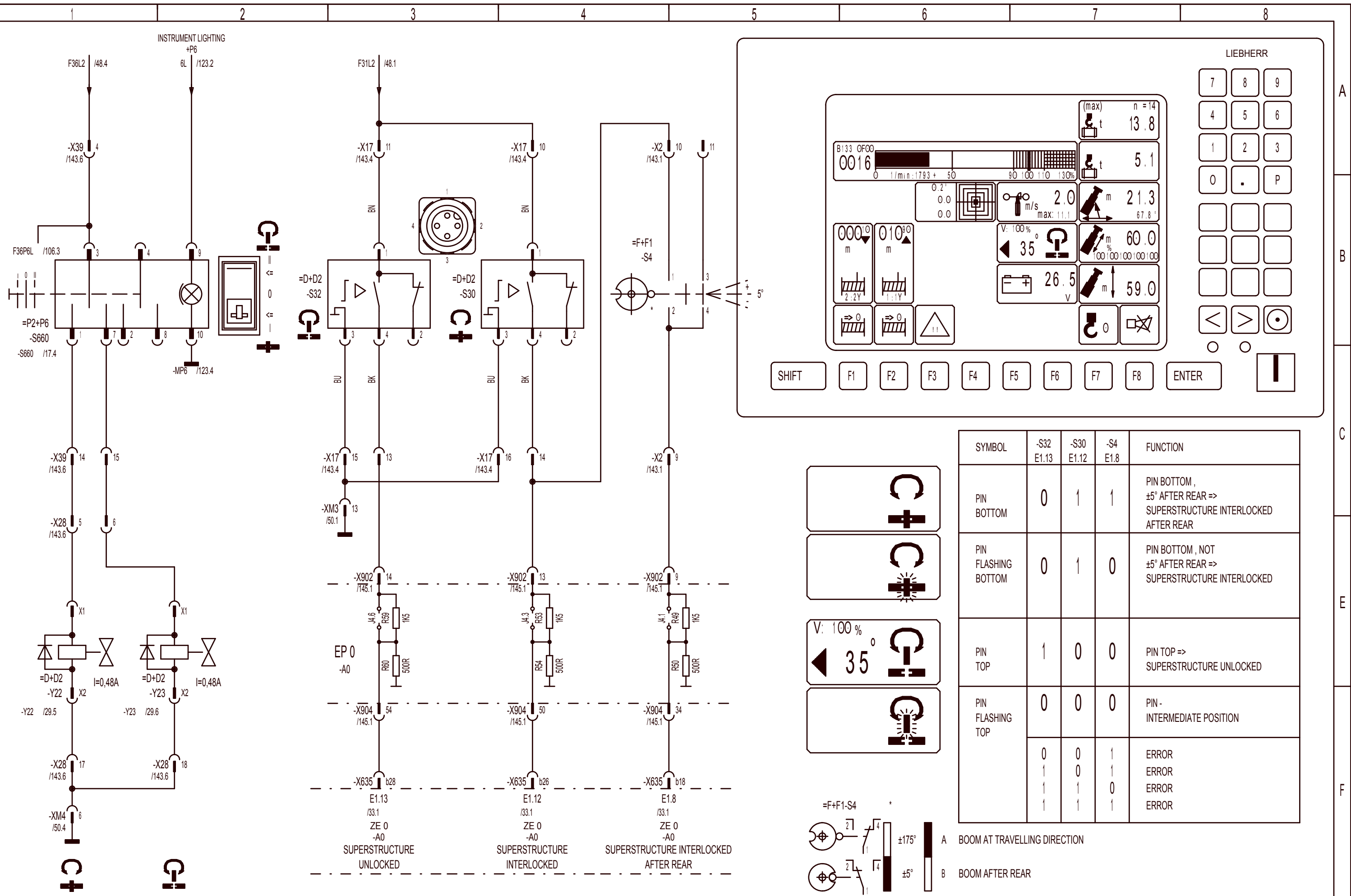
" CYLINDER INTERLOCK SELECTED "
  - PUSH-BUTTON SWITCH -S622 ACTUATED

=> UP TO
  - PUSH-BUTTON SWITCH -S622 FREE

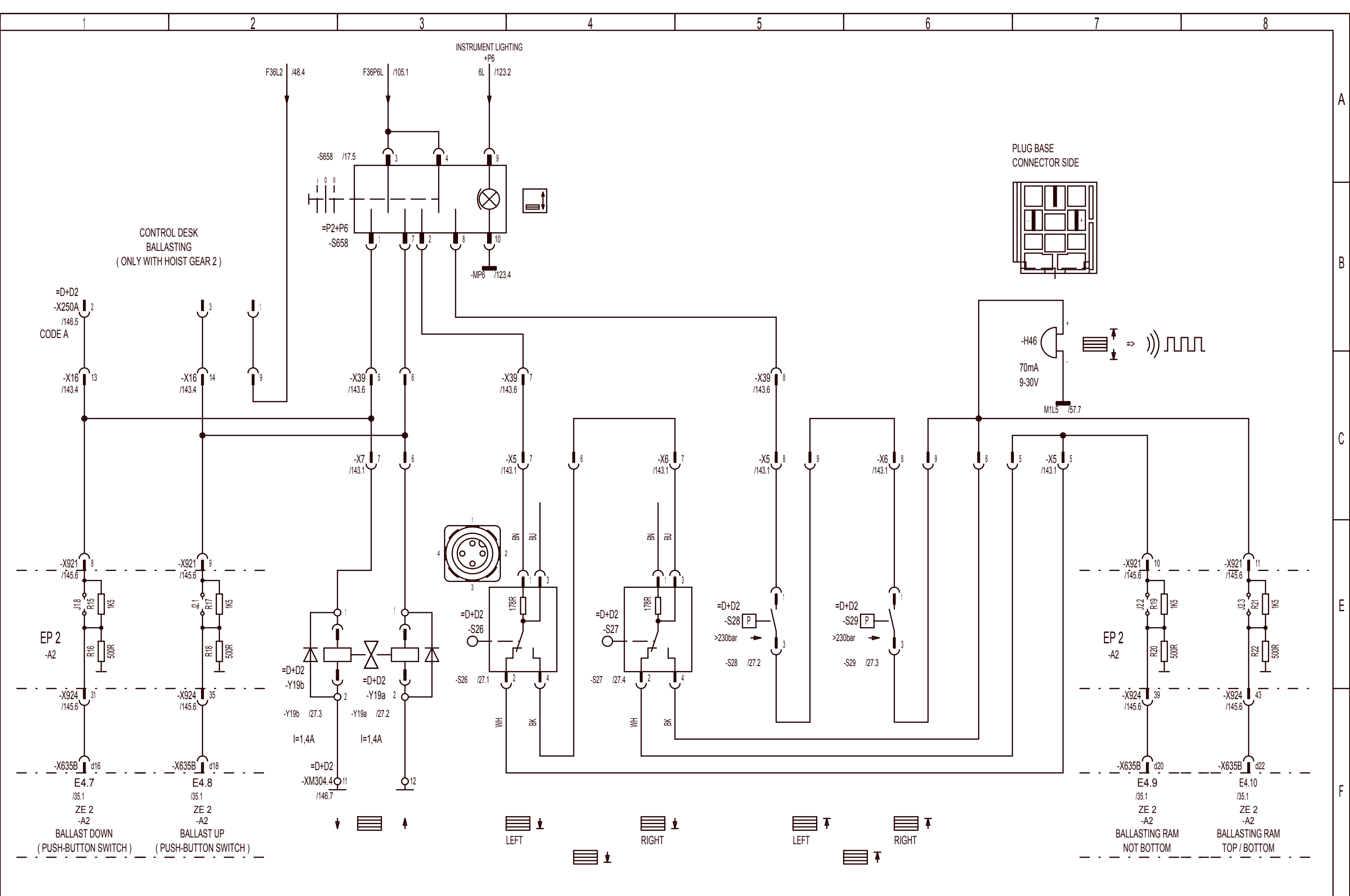
" CYLINDER INTERLOCKED "



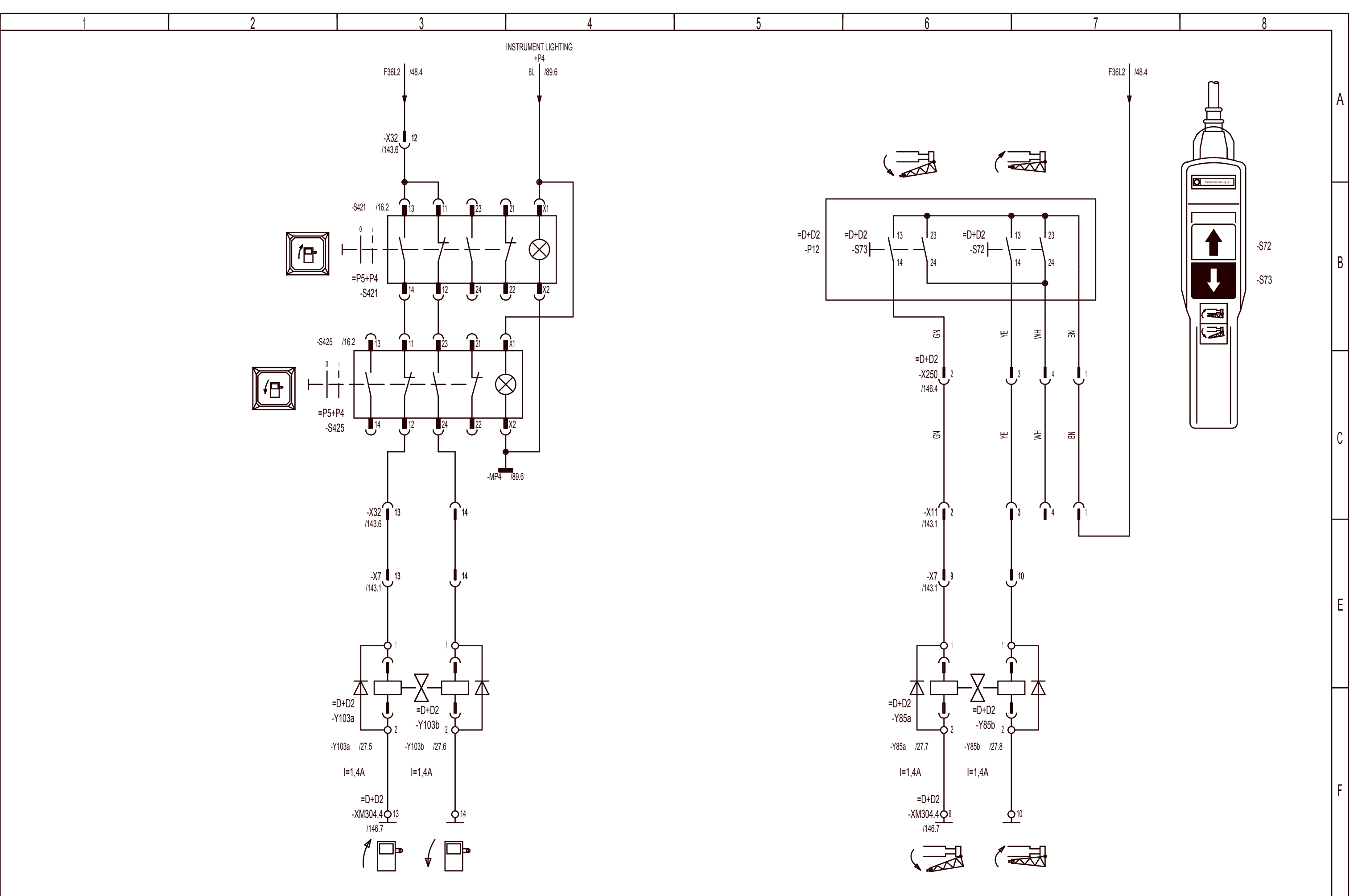




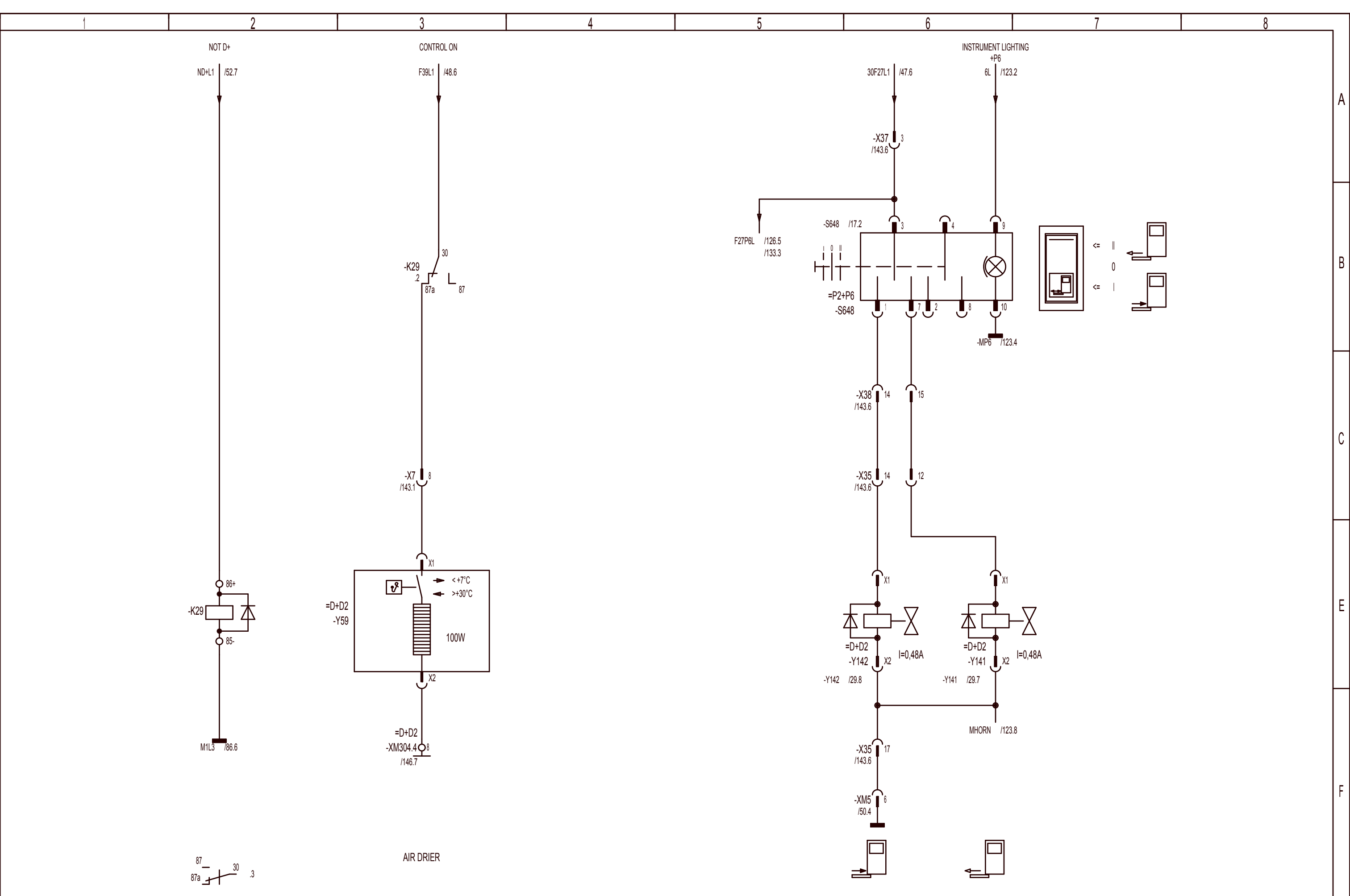
SYMBOL	-S32 E1.13	-S30 E1.12	-S4 E1.8	FUNCTION
PIN BOTTOM	0	1	1	PIN BOTTOM , ±5° AFTER REAR => SUPERSTRUCTURE INTERLOCKED AFTER REAR
PIN FLASHING BOTTOM	0	1	0	PIN BOTTOM , NOT ±5° AFTER REAR => SUPERSTRUCTURE INTERLOCKED
PIN TOP	1	0	0	PIN TOP => SUPERSTRUCTURE UNLOCKED
PIN FLASHING TOP	0	0	0	PIN - INTERMEDIATE POSITION
	0	0	1	ERROR
	1	1	1	ERROR
	1	1	0	ERROR
	1	1	1	ERROR



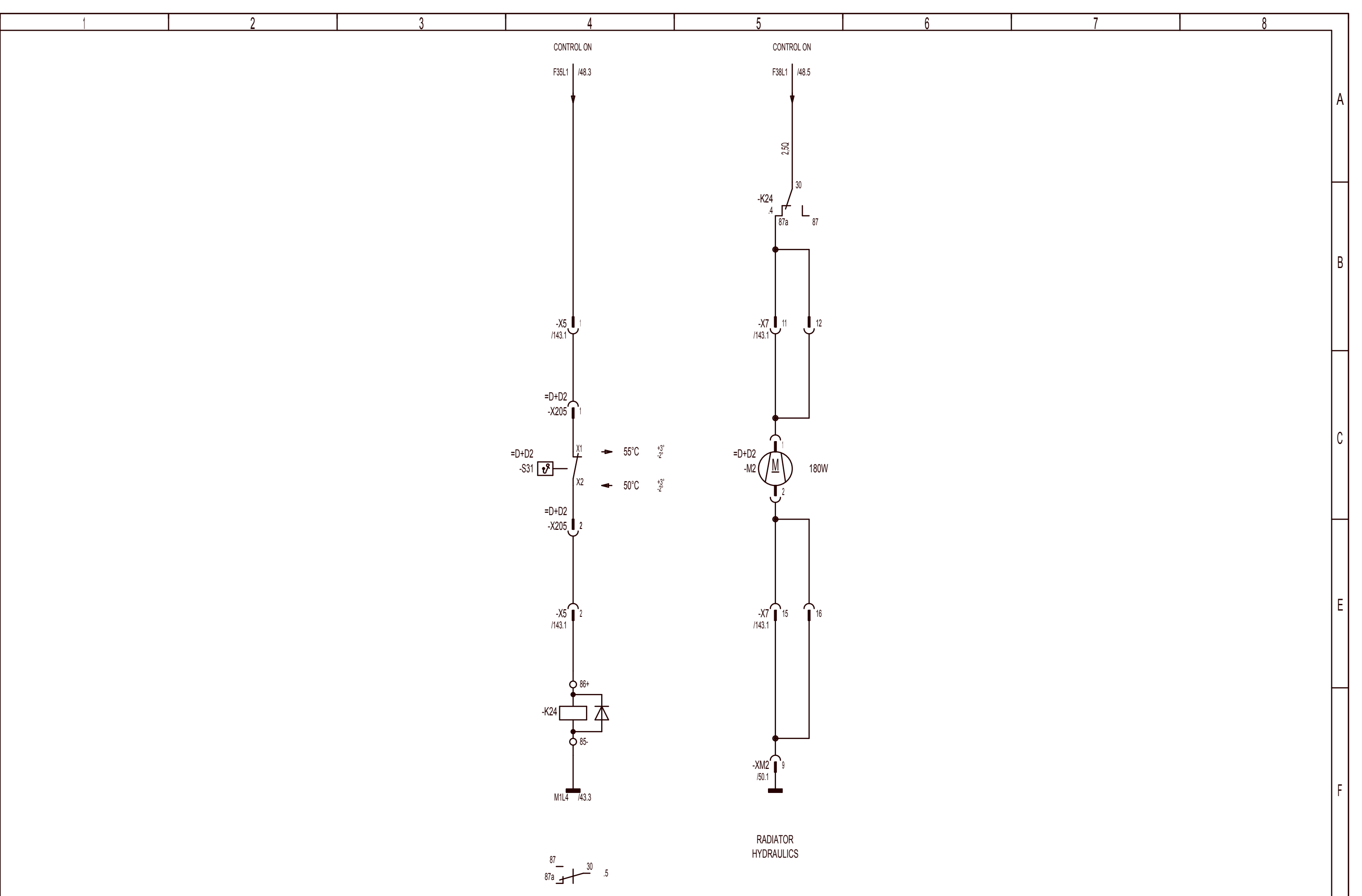
3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	BALLASTING ,  BUZZER COUNTERWEIGHT CONTROL	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerofo			+	S20		
1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	106
Änderung			Datum	Name	Copyright (c)	von		165			



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	INCLINING CAB ,  FOLDING JIB SWIVEL	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	107
	Änderung	Datum	Name		Datum	Name	Copyright (c)			3372-932.04.00.001-001	von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	AIR DRIER ,  PLATFORM CABIN	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	108
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	RADIATOR	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	109
	Änderung	Datum	Name		Datum	Name			Copyright (c)	von	165	




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

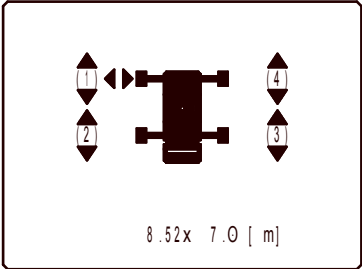
LTM 1090/3

1°


0.0

0.0





8.52 x 7.0 [ m]



SHIFT

F1

F2

F3

F4


F5

F6

F7

F8

ENTER



LIEBHERR

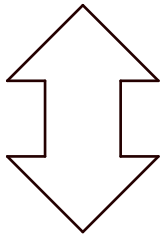
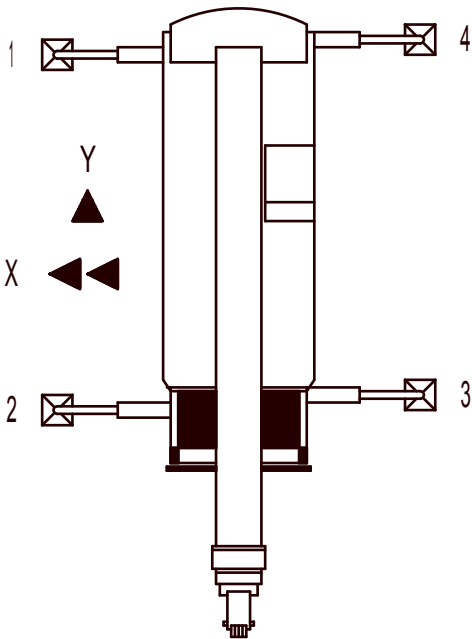
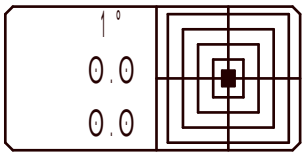
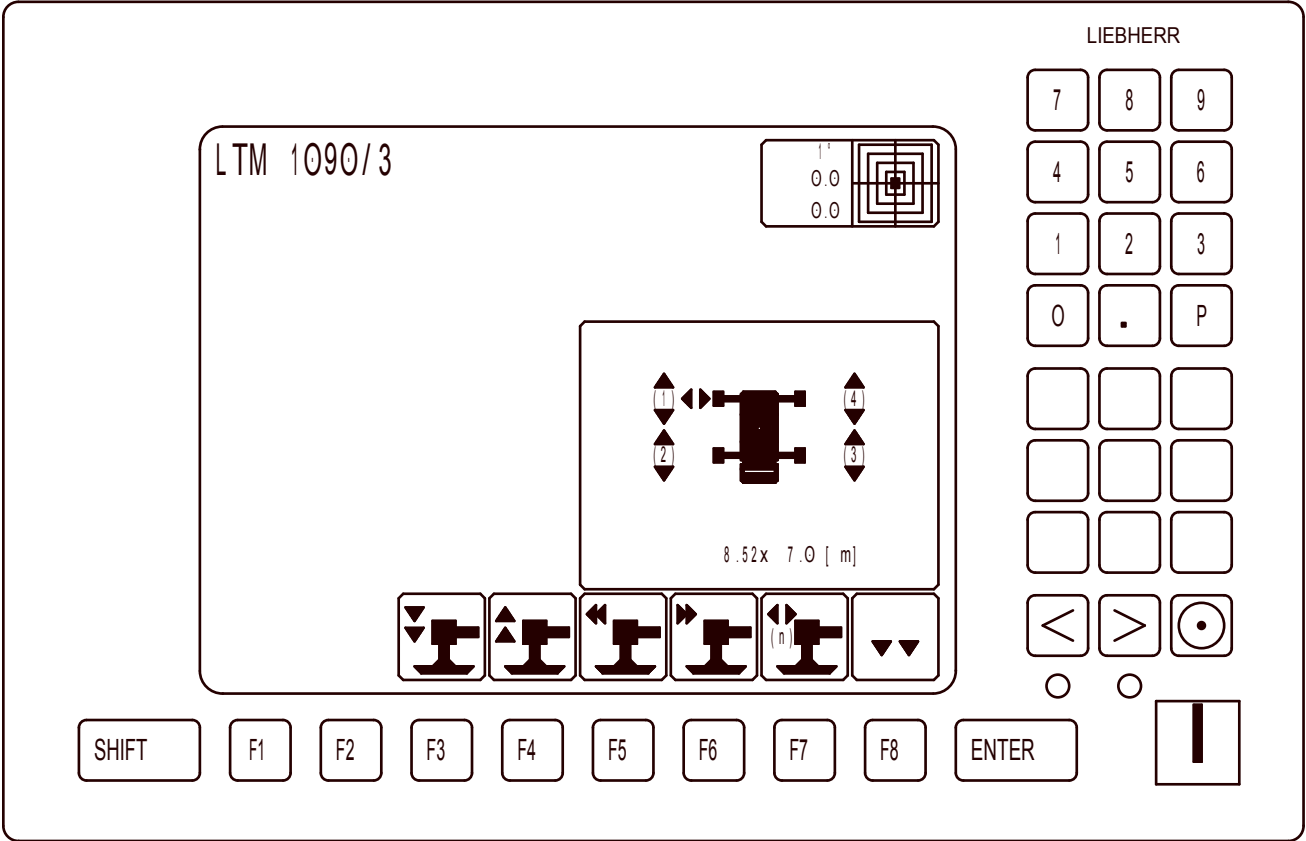
789

456

123

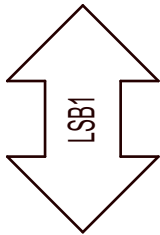
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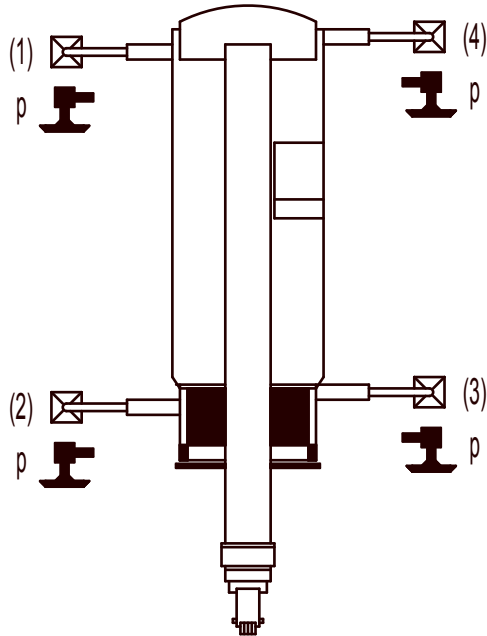
<



ZE 0

-A0





LIEBHERR

LTM 1090/3

0.00.00

0.00.00

max[ t ]

030 (1)

030 (2)

min[ t ]

005 (1) .. (4)

max[ t ]

(4) 030

(3) 020

[ t ]

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0 (2)

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(4)

(3) 0

8.52 x 7.0 [ m ]

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SHIFT

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DISPLAY SELECTED

max[ t ]

030 (1)

030 (2)

min[ t ]

005 (1) .. (4)

max[ t ]

(4) 030

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[ t ]

0 (1)

0 (2)

[ t ]

(4)

(3) 0

8.52 x 7.0 [ m ]

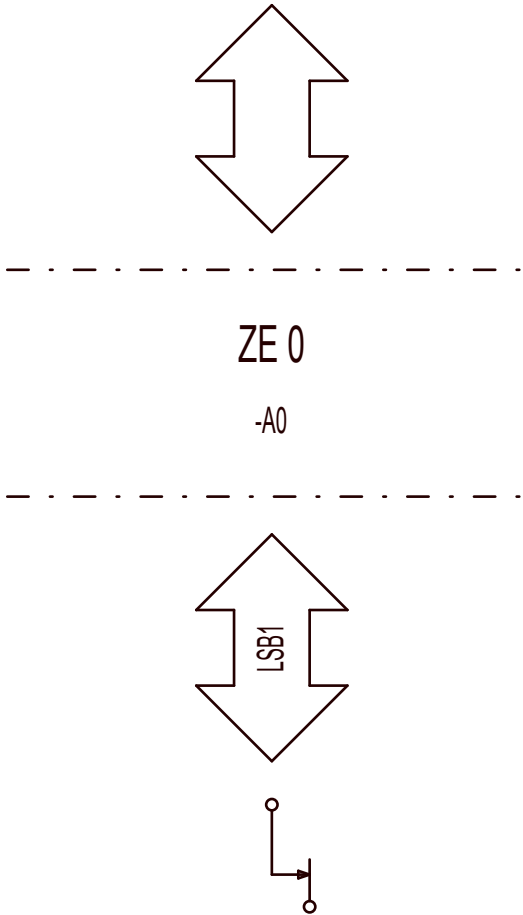
▲▲

ADJUSTMENT  
SUPPORTING FORCE  
FOR WARNING SIGNAL

▼▼

DISPLAY  
SUPPORTING FORCE

PROGRAM - END

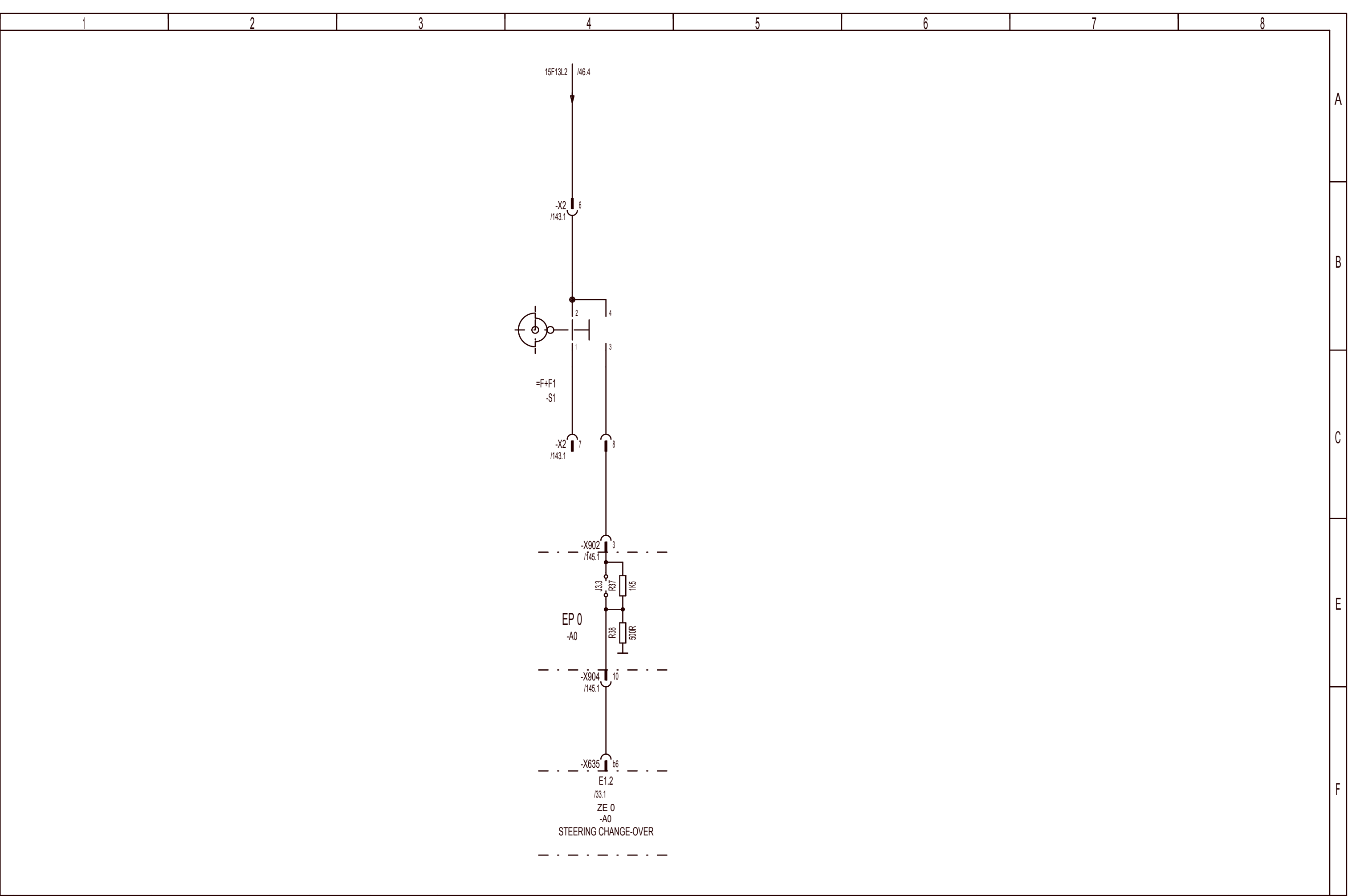













3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	STEERING CHANGE-OVER	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo					Zeich-Nr.	3372-932.04.00.001-001
1												
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



km / h                      %

N                      0                      40 

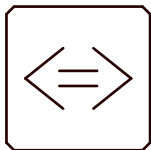
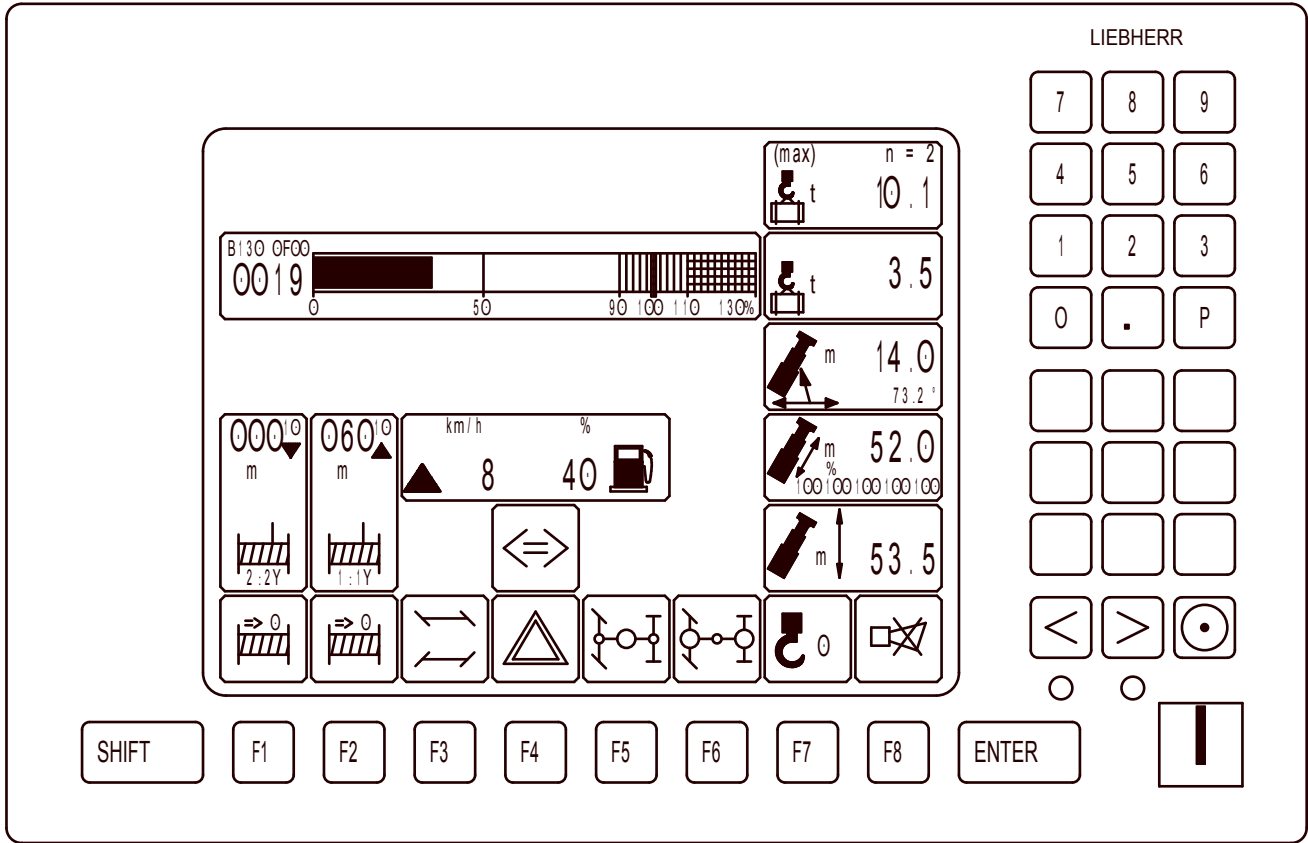
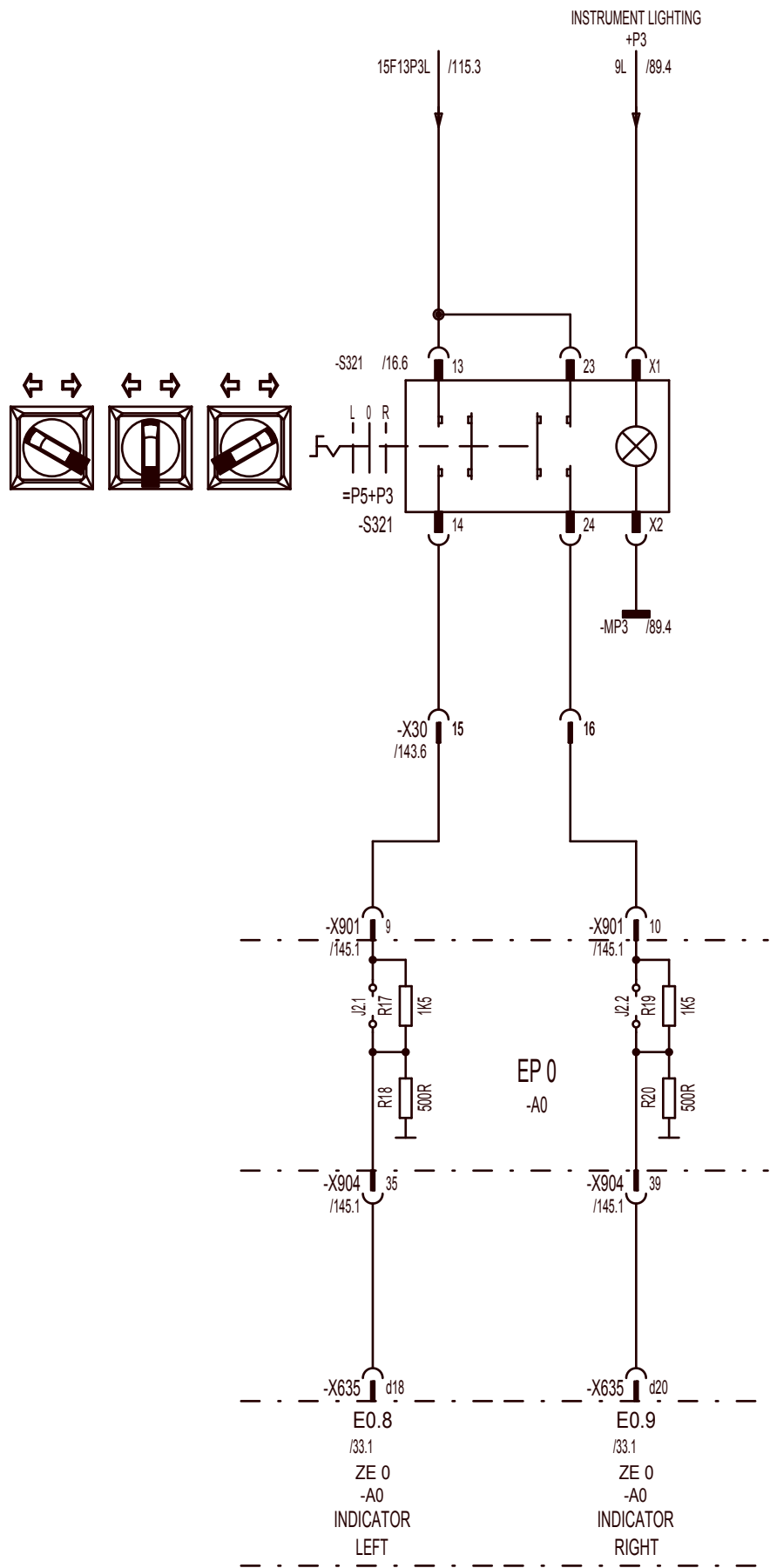
km / h	%
4	40

DRIVING PROGRAM :

OFF- ROAD : FORWARD (D) => 1. SPEED 2,9 KM/H  
 BACKWARDS (R) => 1. SPEED 3,2 KM/H

ROAD : FORWARD (D) => 3. SPEED 10,9 KM/H  
 BACKWARDS (R) => 2. SPEED 9,1 KM/H



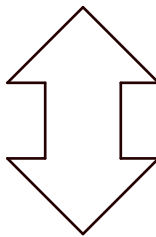


INDICATOR LEFT / RIGHT



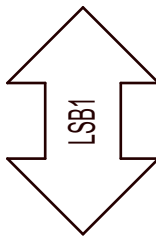
WARNING FLASHER

F4



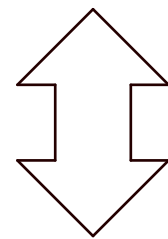
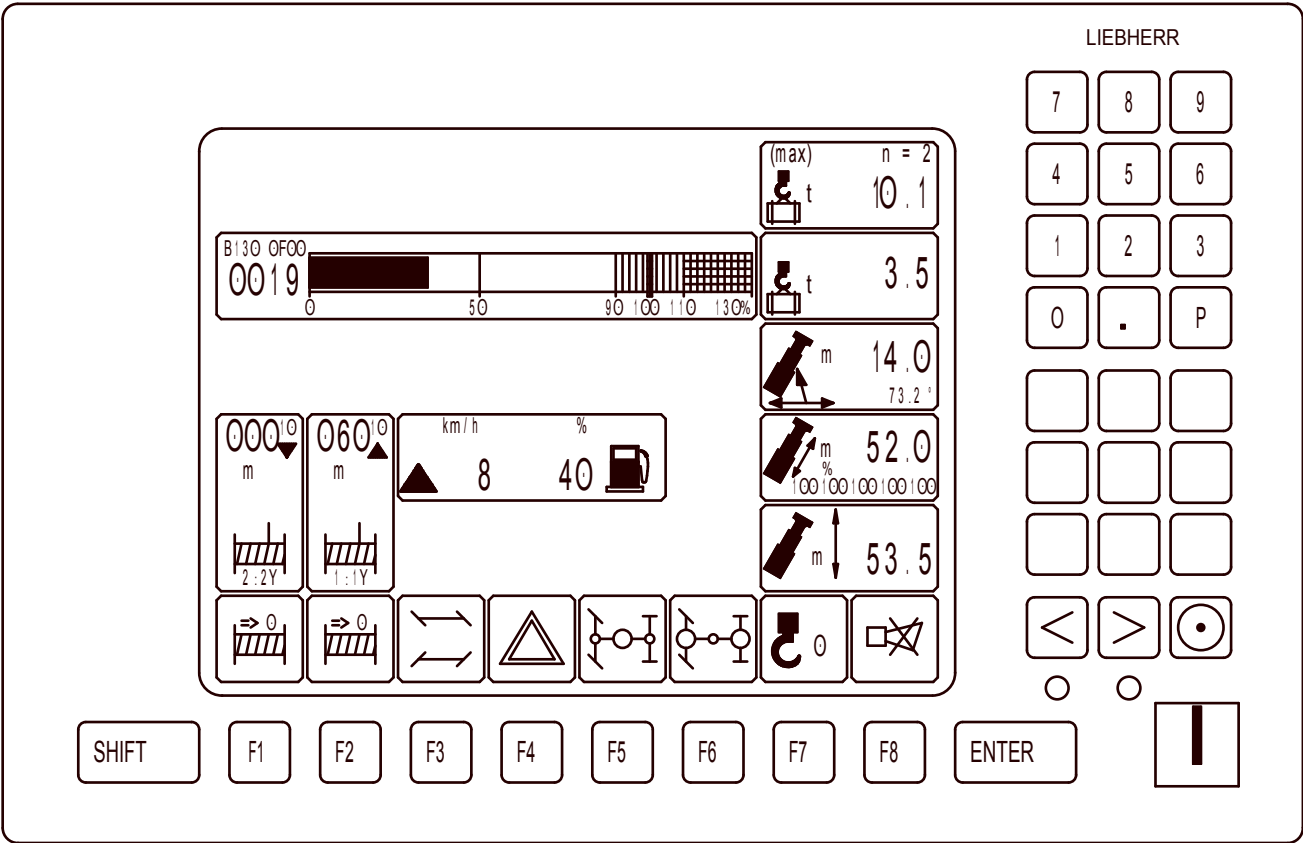
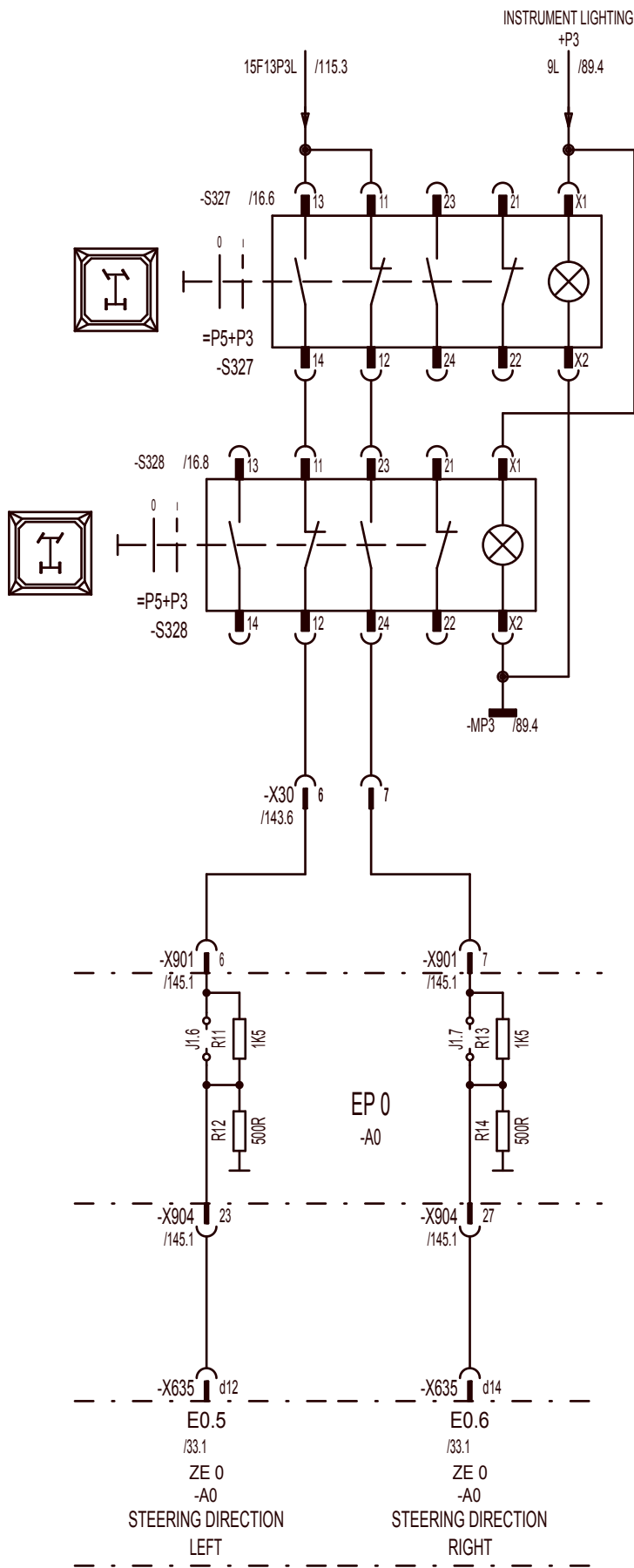
ZE 0

-A0



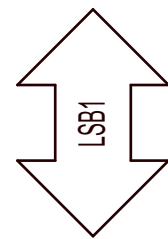
LS1



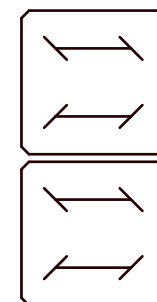
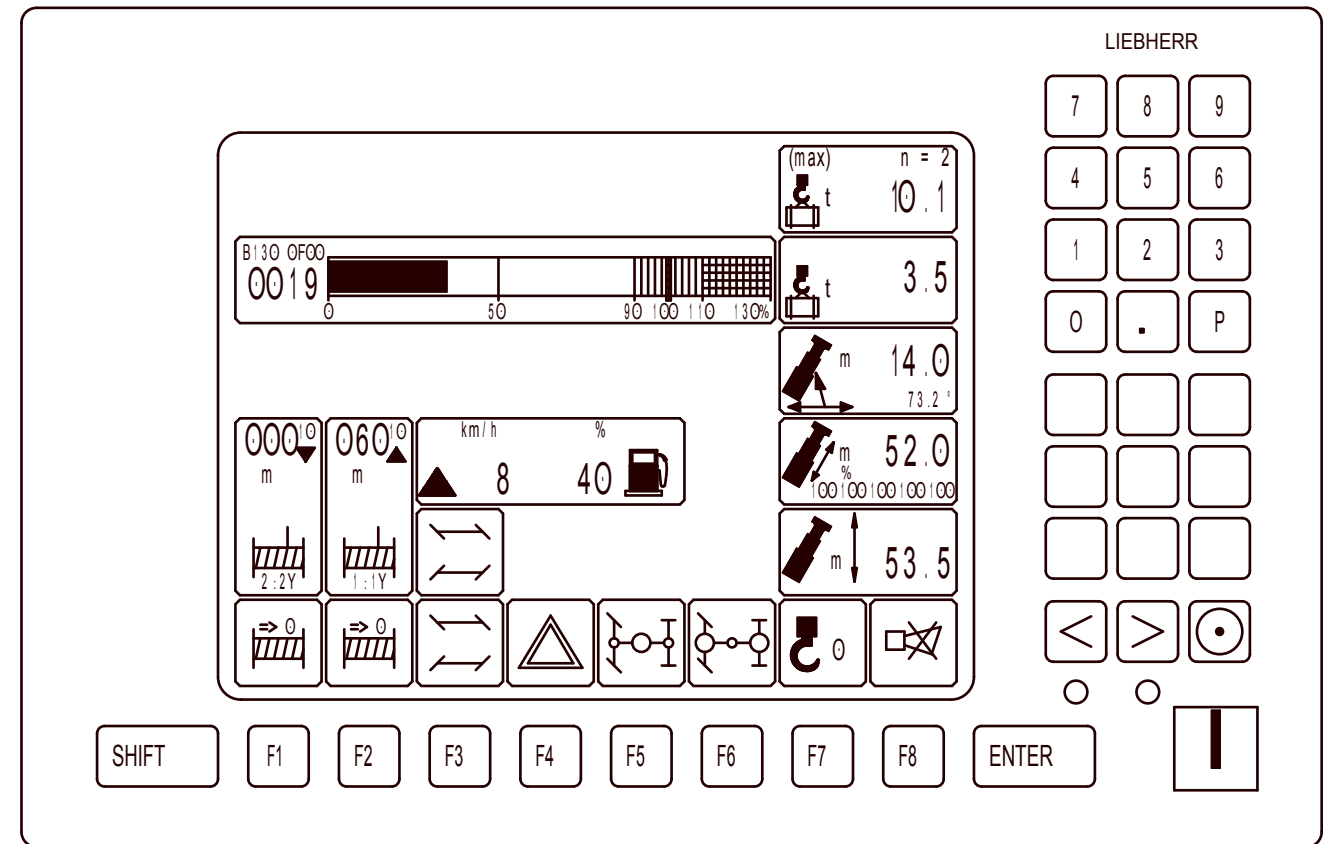
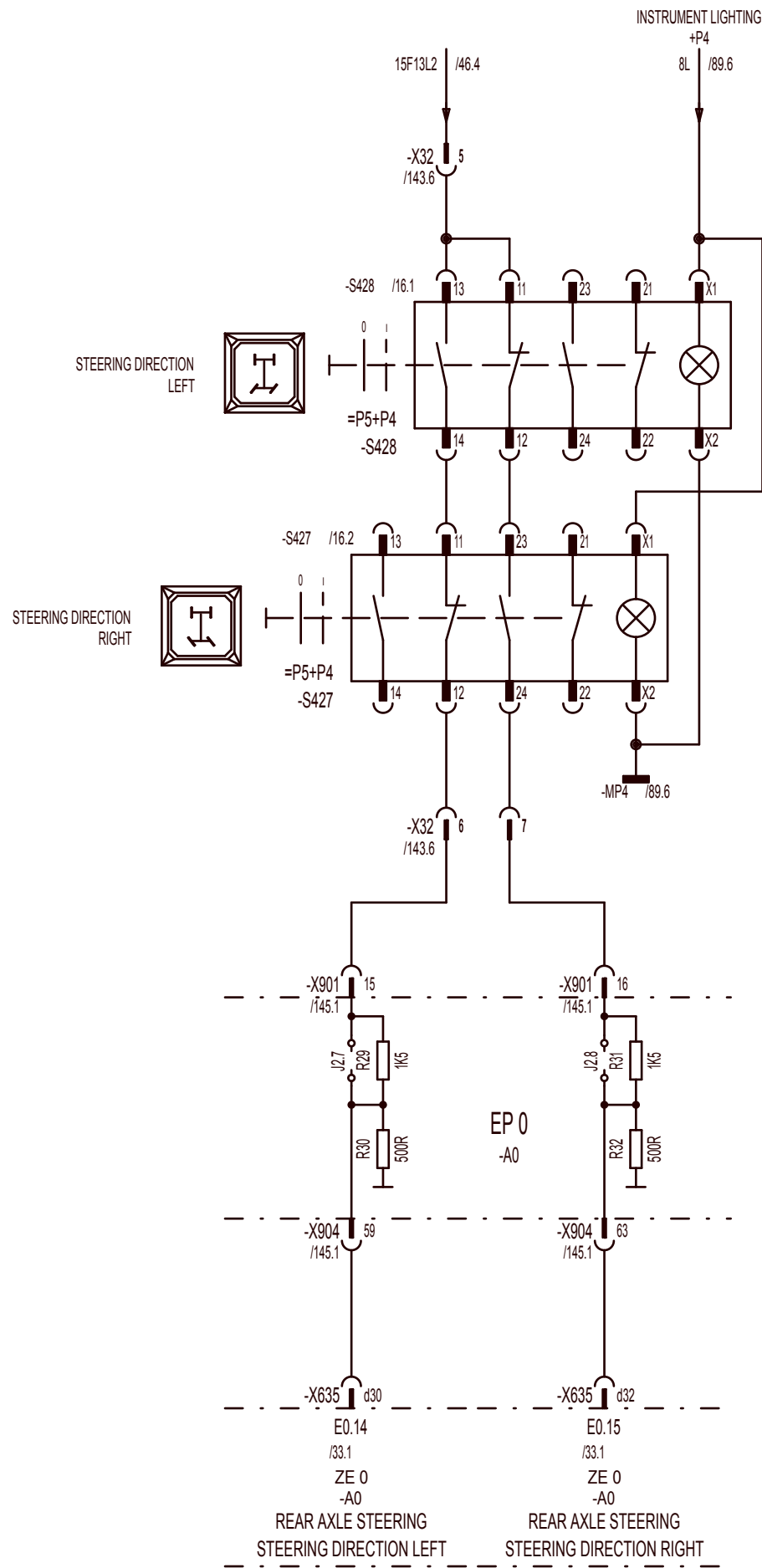


ZE 0

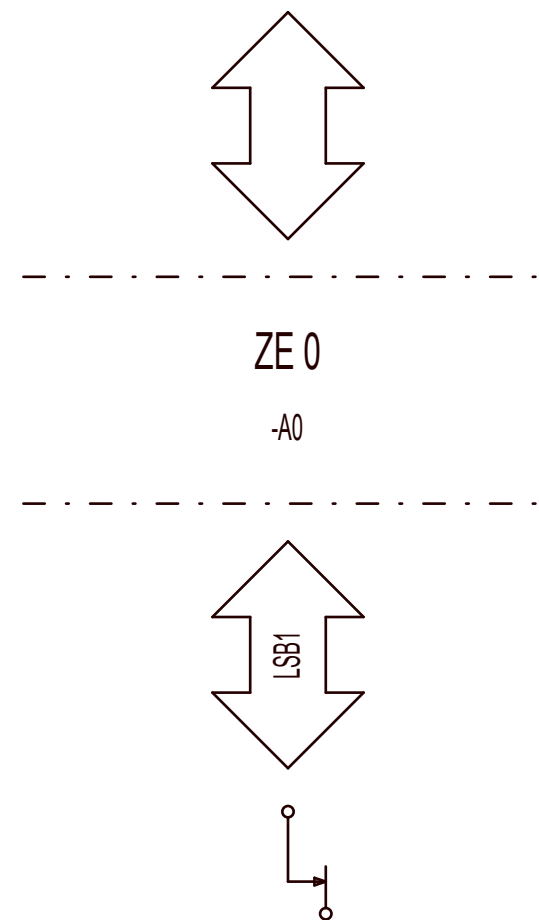
-A0



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	STEERING	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	119
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

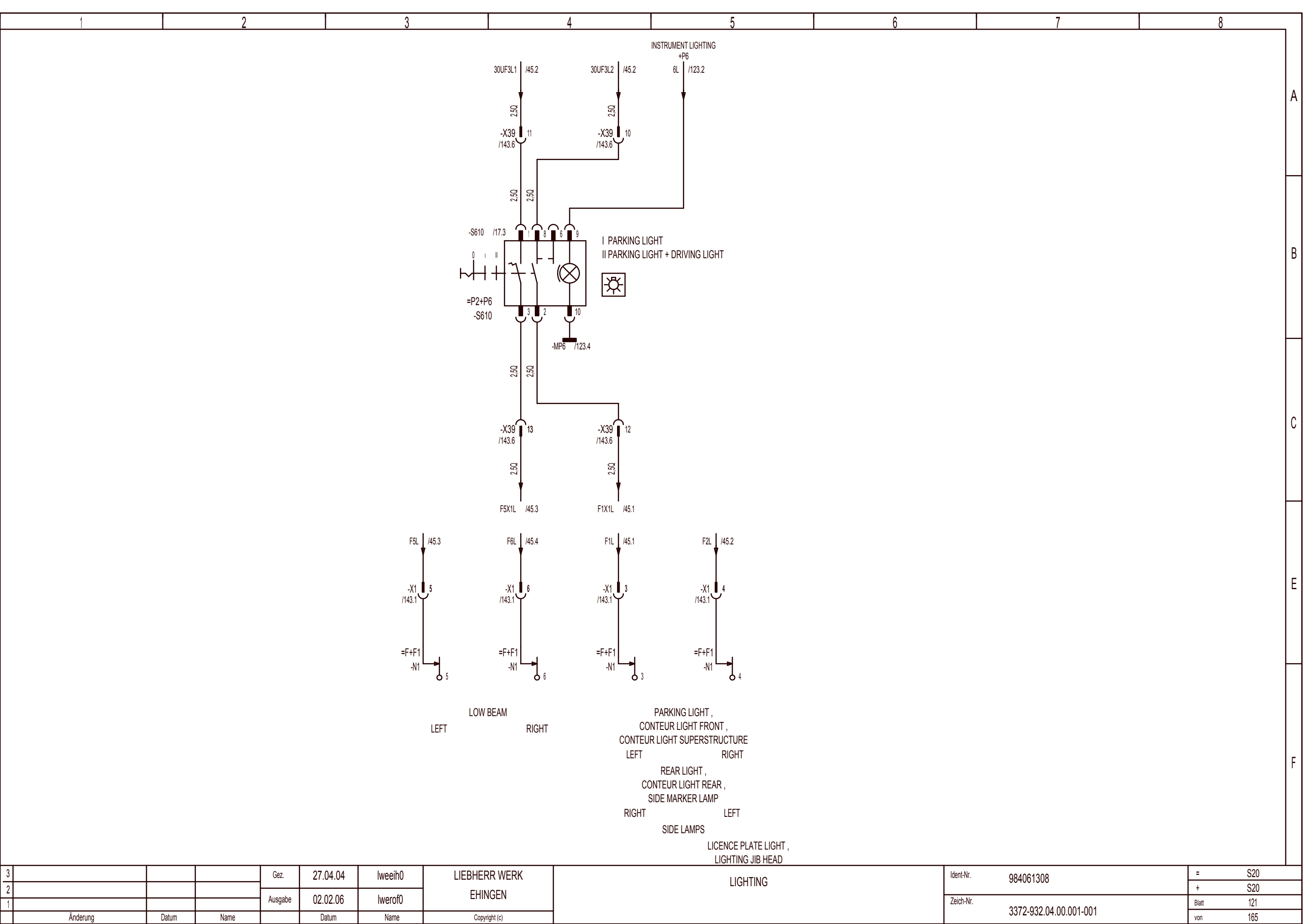


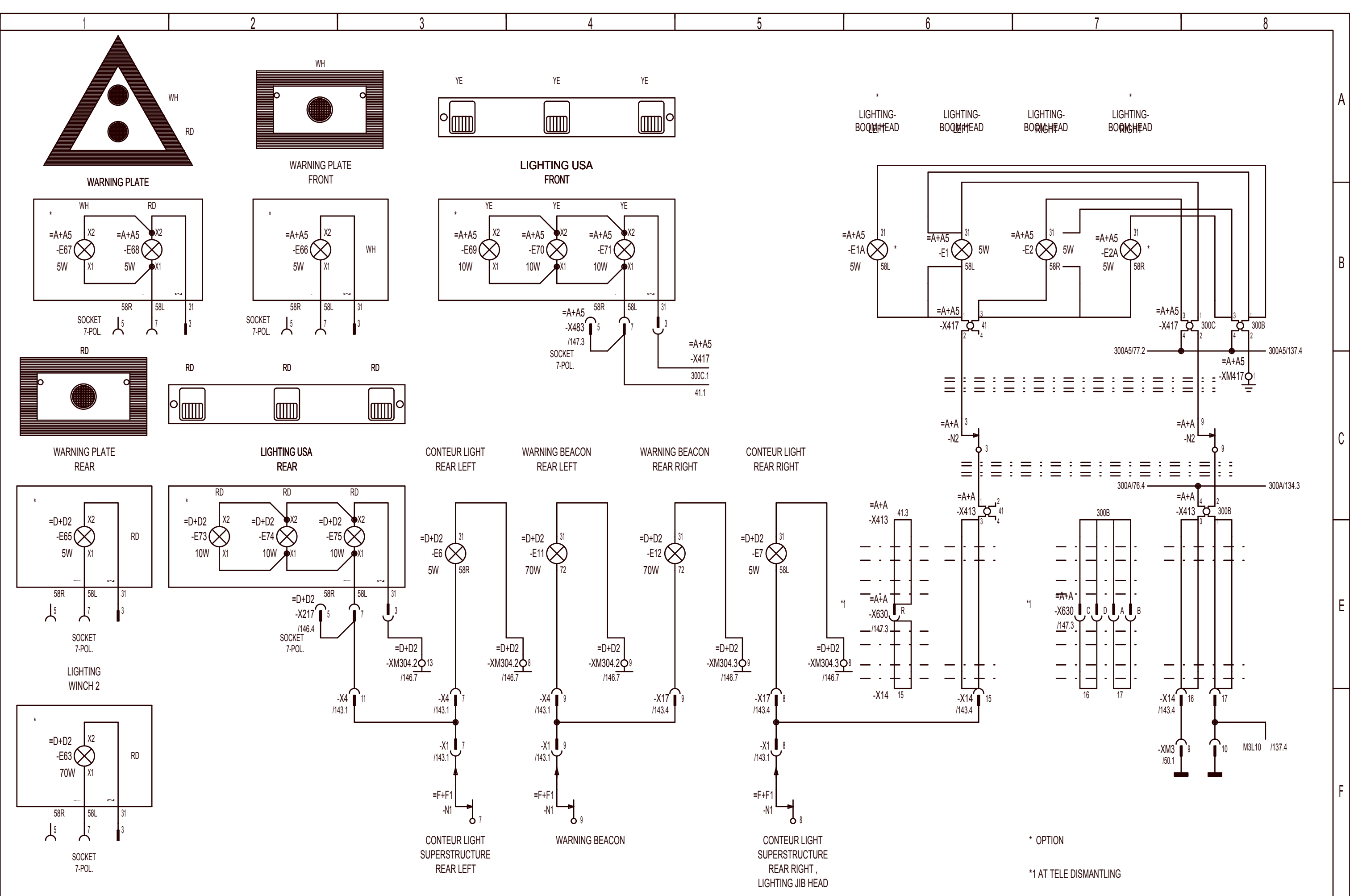
F3



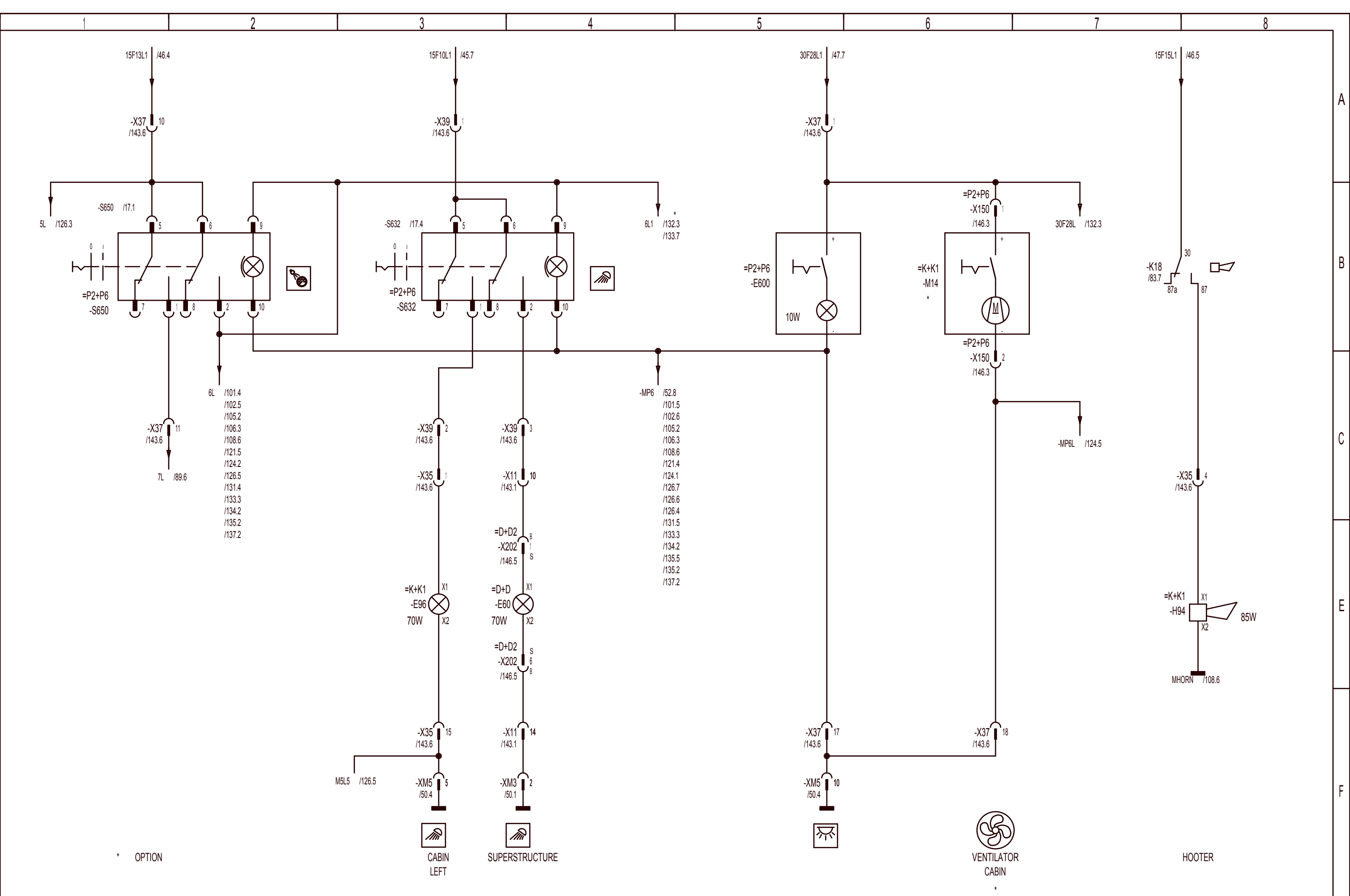
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	REAR AXLE STEERING ,  REAR AXKE REKEASE	Ident-Nr.  984061308	= S20 + S20 Blatt 120 von 165
2				Ausgabe	02.02.06	lwerof0				
1										
	Änderung	Datum	Name		Datum	Name				







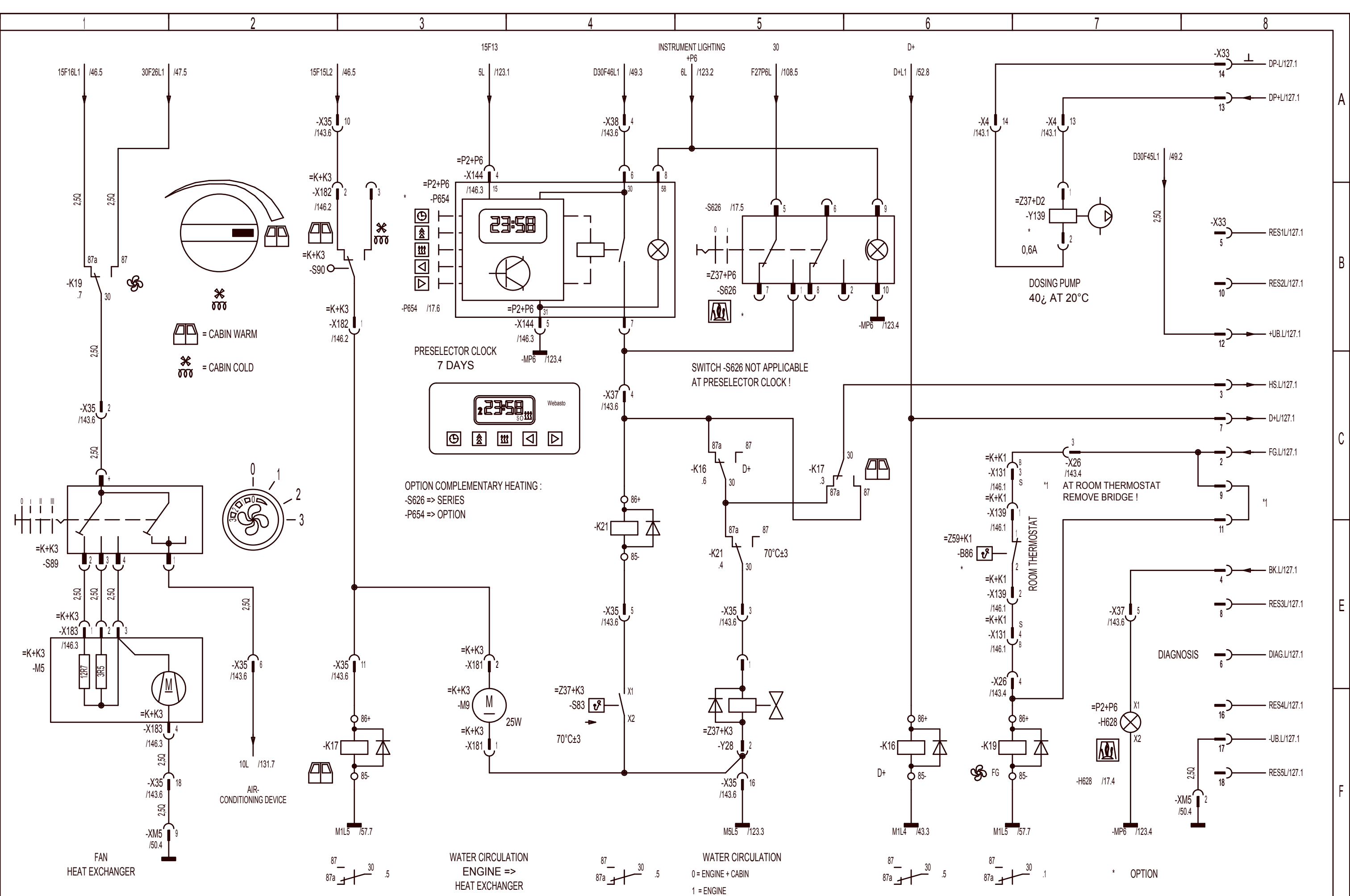
3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	LIGHTING , WARNING PLATE , CONTEUR LIGHT ,  WARNING BEACON , LIGHTING JIB HEAD	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerofo			+	S20		
1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	122
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165		



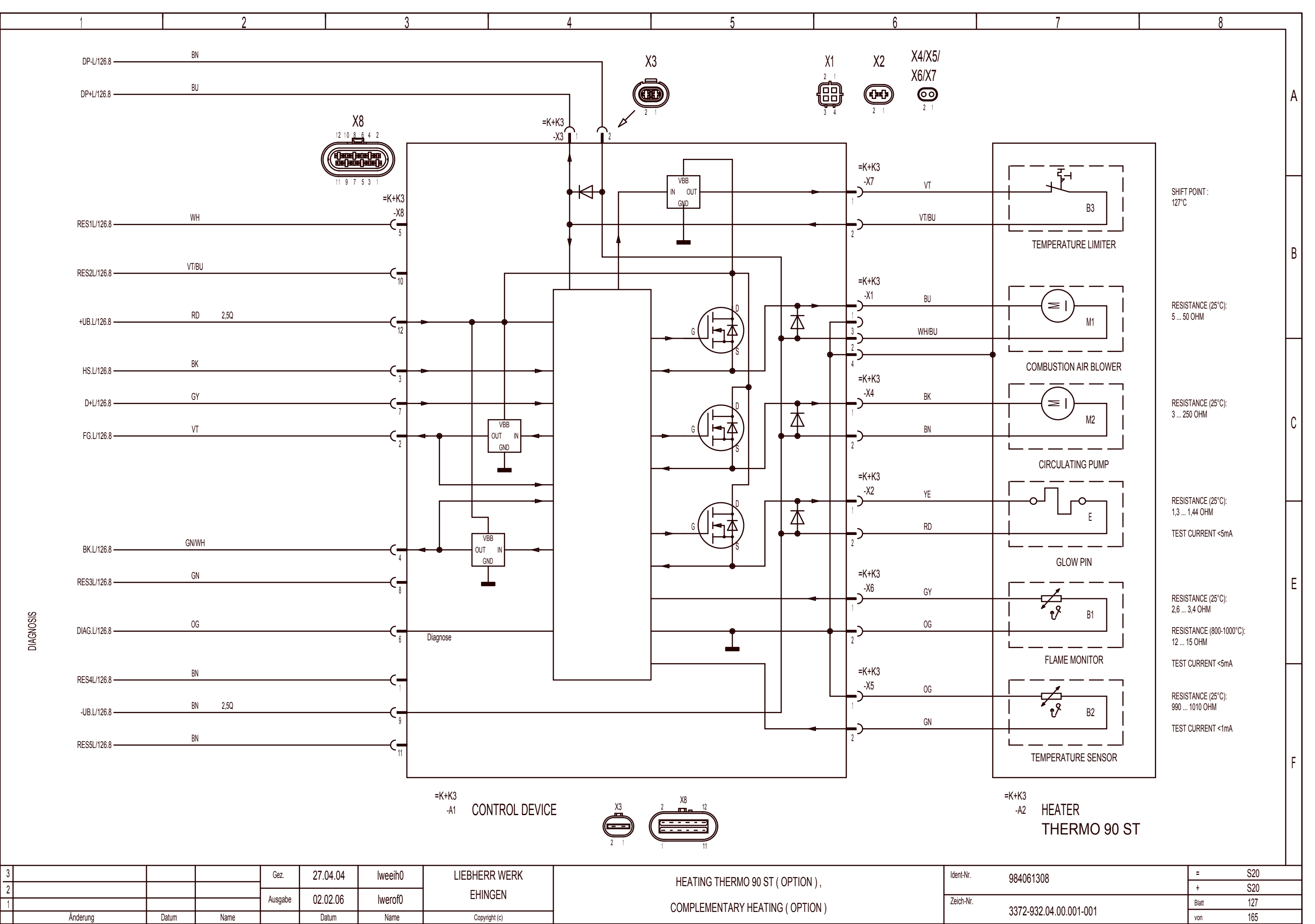
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	CAB INSTALLATION , WORKING PROJECTOR ,  INDOOR LIGHTING , VENTILATOR CABIN , HOOTER	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	123
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	






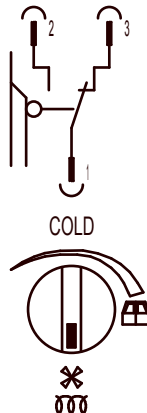




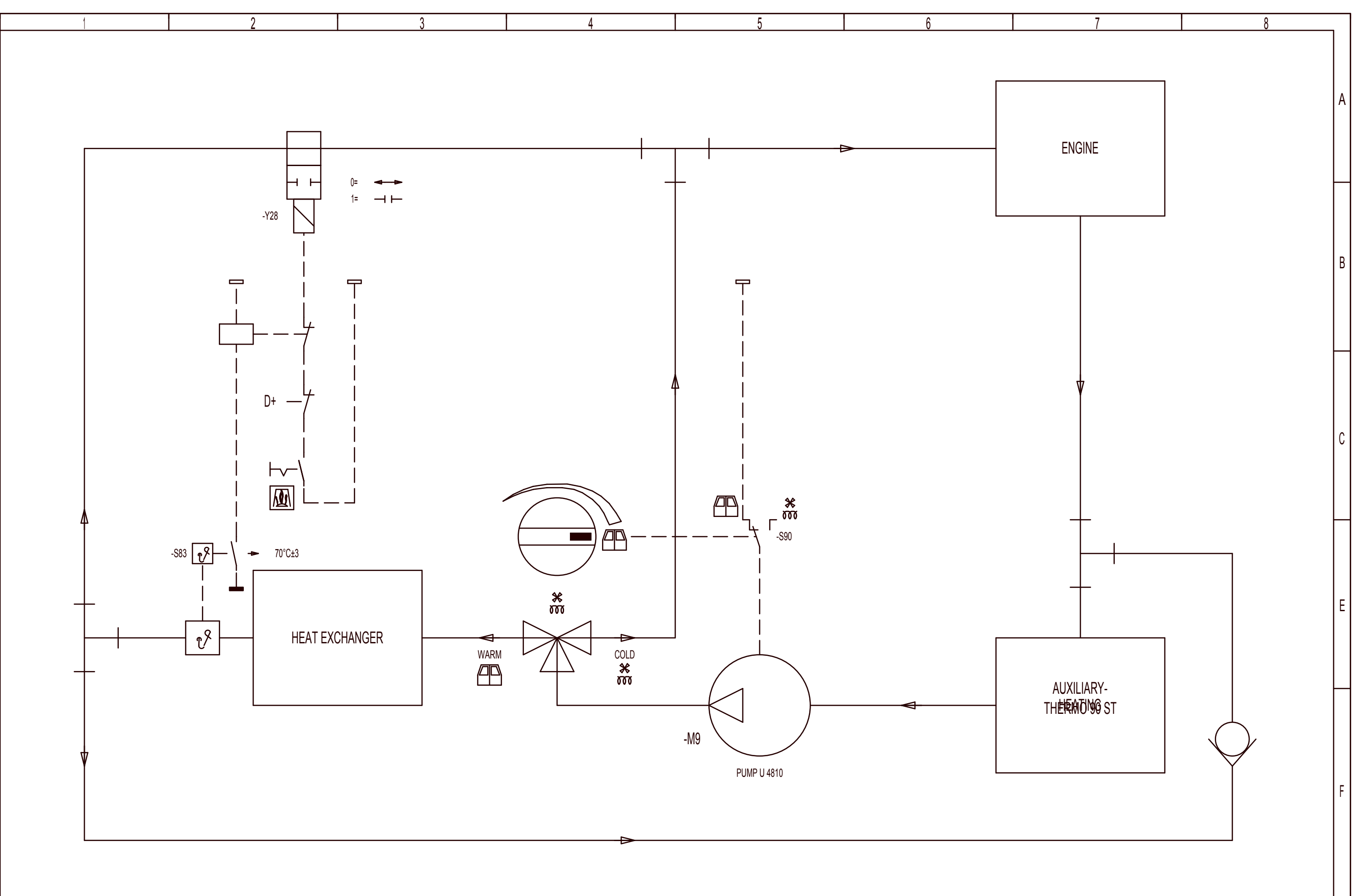
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	FAN CABIN , HEAT EXCHANGER , HEATING ,  DOSING PUMP HEATING , PRESELECTOR CLOCK HEATING	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	126
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	



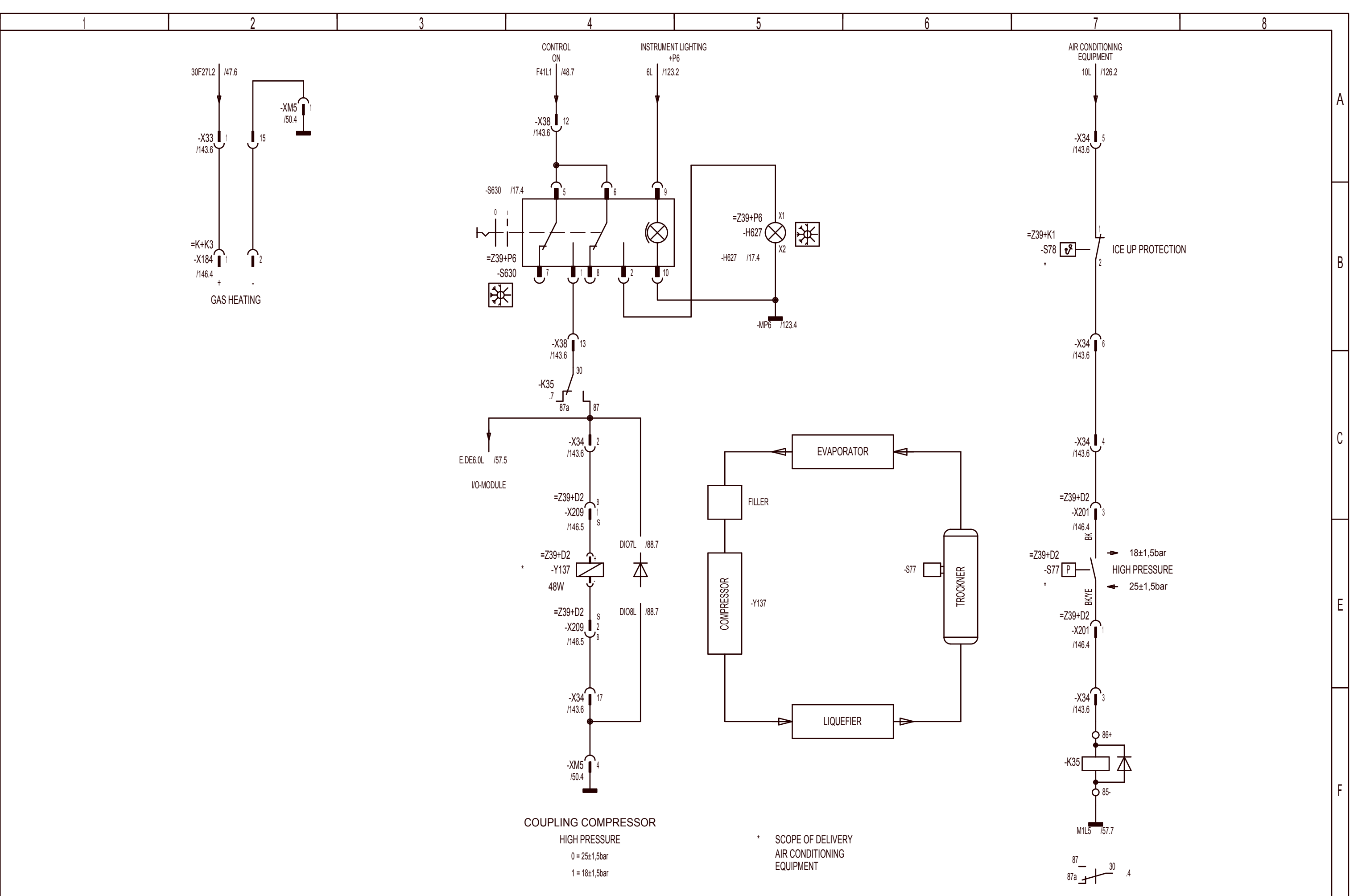




1	2		3		4		5		6		7		8			
	HEATING SWITCH =P2+P6-S626 OR PRESELECTOR CLOCK		SWITCH AT - 3 WAY VALVE -S90  CABIN		TEMPERATURE - SWITCH -S83		DIESEL ENGINE		VALVE- (OBEY ZERO- CURRENT)		WEBASTO- HEATING		CIRCULATING PUMP WATER CIRCULATION -M9		A	
	ON	OFF	CABIN WARM	CABIN COLD	<70°C±3	>=70°C±3	ON	OFF	ON	OFF	ON	OFF	ON	OFF		
	X		X		X			X	X		X		X			B
	X		X			X		X		X	X		X			
	X		X		X		X			X	X		X			
	X		X			X	X			X	X		X			
	X			X	X			X	X		X			X		
	X			X		X		X		X	X			X		
	X			X	X		X			X		X		X		
	X			X		X	X			X		X		X		
		X	X		X			X		X		X	X			
		X	X			X		X		X		X	X			
		X		X	X			X		X		X		X		
		X		X		X		X		X		X		X		
		X	X		X		X			X		X	X			
		X	X			X	X			X		X	X			
		X		X	X		X			X		X		X		
		X		X		X	X			X		X		X		
															F	

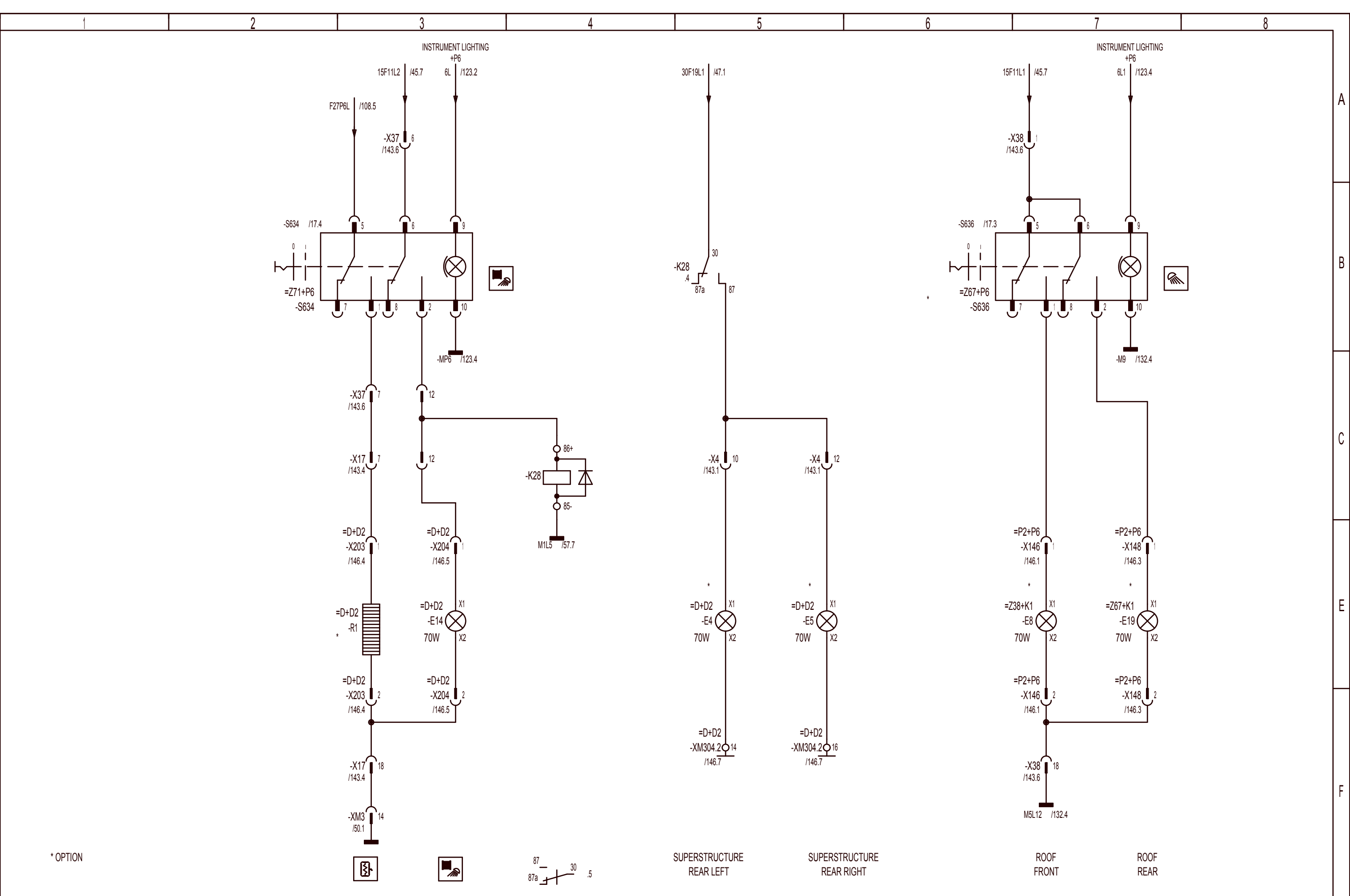


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	HEATING , GENERAL OUTLAY HEATING  WITH COMPLEMENTARY HEATING THERMO 90 ST	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			+	S20		
1									Blatt	130		
	Änderung	Datum	Name		Datum	Name	Copyright (c)		Zeich-Nr.	3372-932.04.00.001-001	von	165

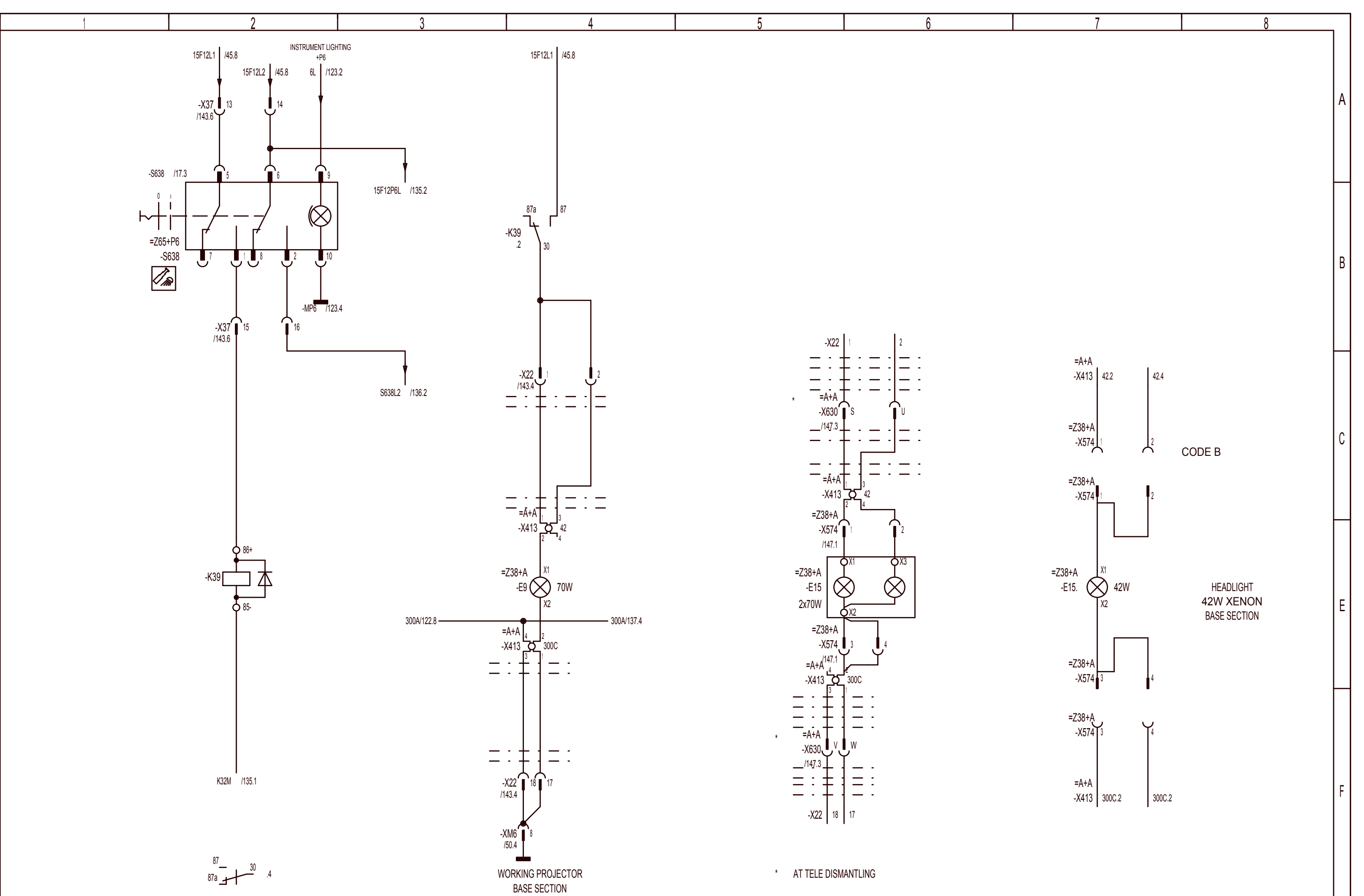


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK  EHINGEN	AIR CONDITIONING EQUIPMENT ( OPTION ) , GAS HEATING ( OPTION )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	131
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



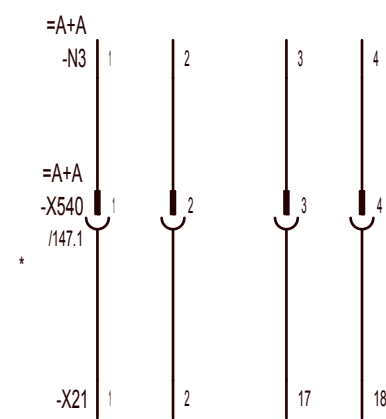


3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	HEADLIGHT FOR WINCH , REAR MIRROR HEATING ,  WORKING PROJECTOR CABIN ( ROOF )	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	133
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	WORKING PROJECTOR 70W BOOM ( OPTION ) ,  WORKING PROJECTOR 42W XENON ( OPTION )	Ident-Nr.	984061308	=	S20	
2				Ausgabe	02.02.06	lwerof0			EHINGEN			+	S20
1													
	Änderung	Datum	Name		Datum	Name	Copyright (c)			Zeich-Nr.	3372-932.04.00.001-001	Blatt	134
											von	165	





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87a

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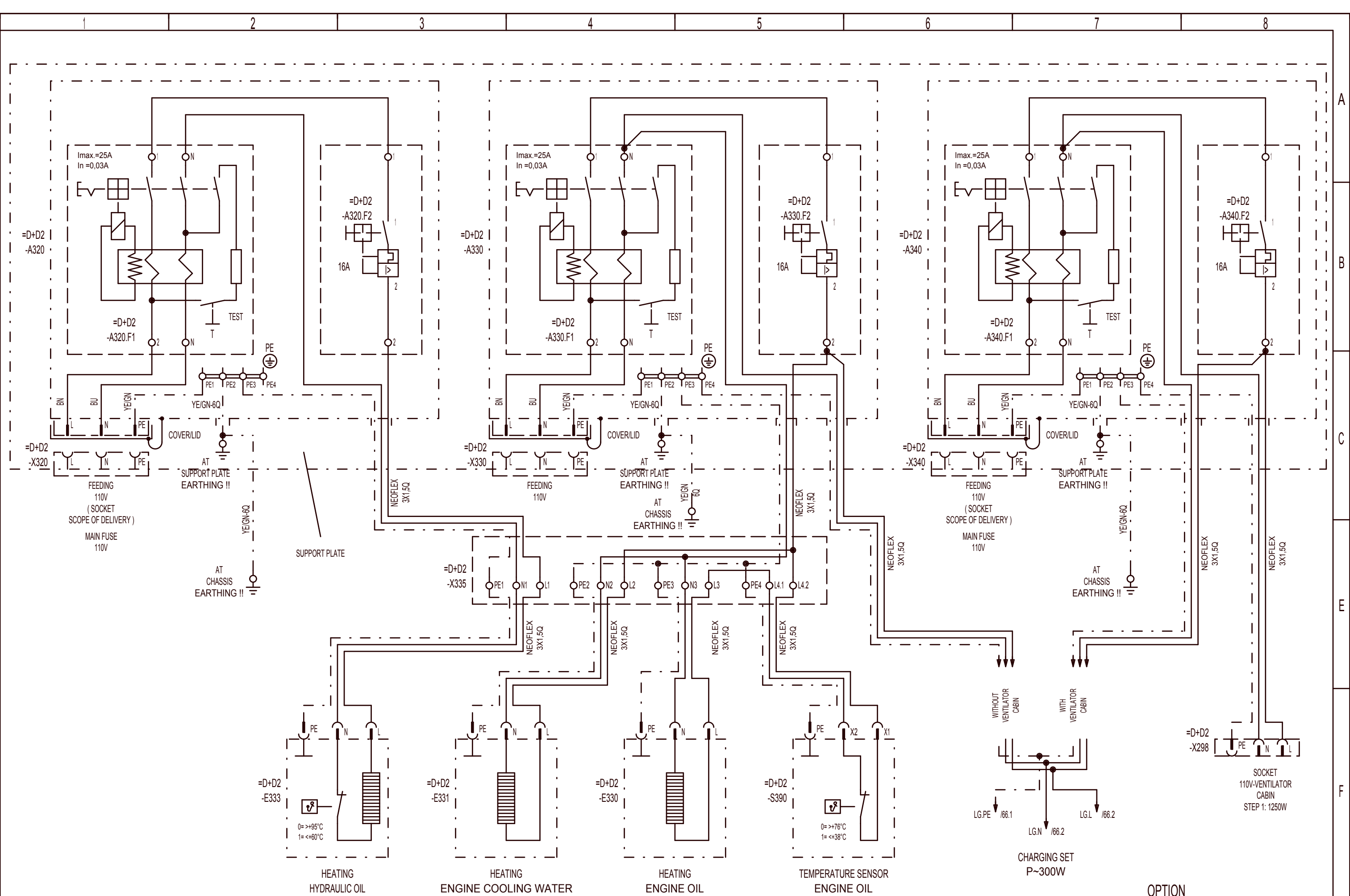
.4

3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	HEADLIGHT 42W BOOM HEAD ,  FLIGHT WARNING LAMP , CONTINUOUS LIGHT 100W	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerof0			+	S20		
1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	136
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165		

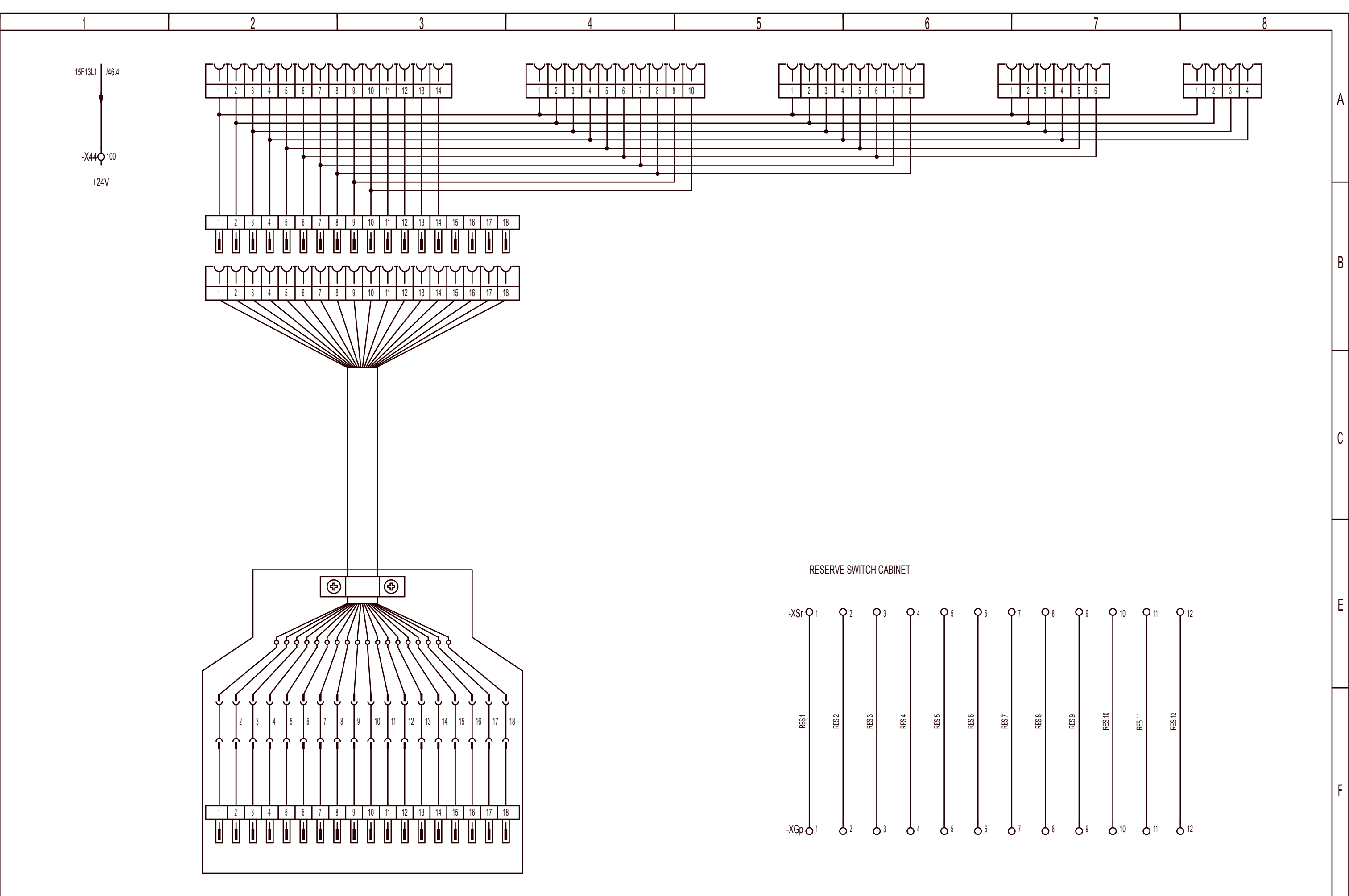




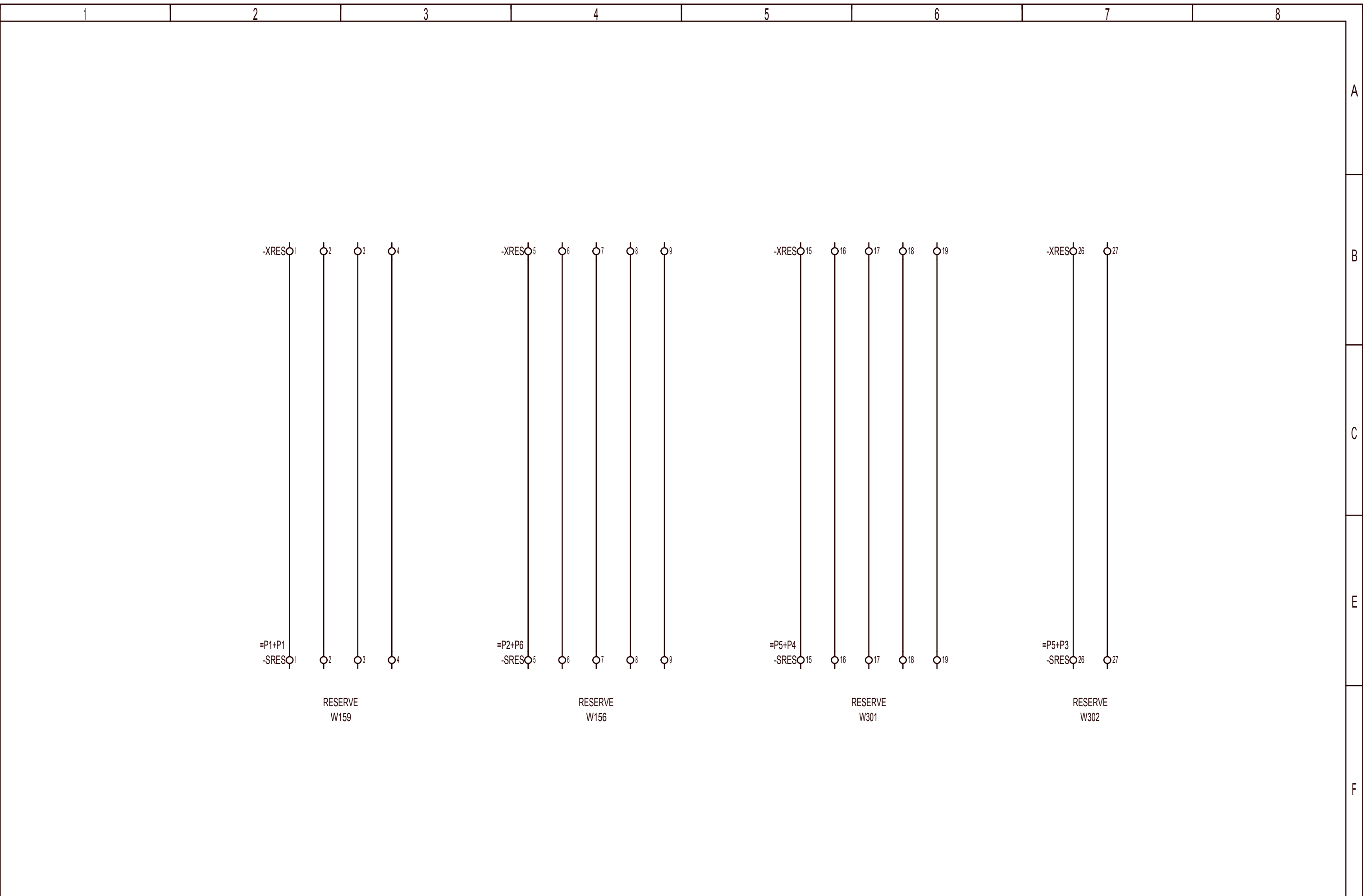




3				Gez.	P=2000W 27.04.04	lwecih0	LIEBHERR WERK	EXTERNAL FEEDING 110V , HEATING 110V ENGINE / HYDRAULIC OIL	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0	EHINGEN		Zeich-Nr.	3372-932.04.00.001-001	+	S20
1	Änderung	Datum	Name		Datum	Name	Copyright (c)				Blatt	139
											von	165



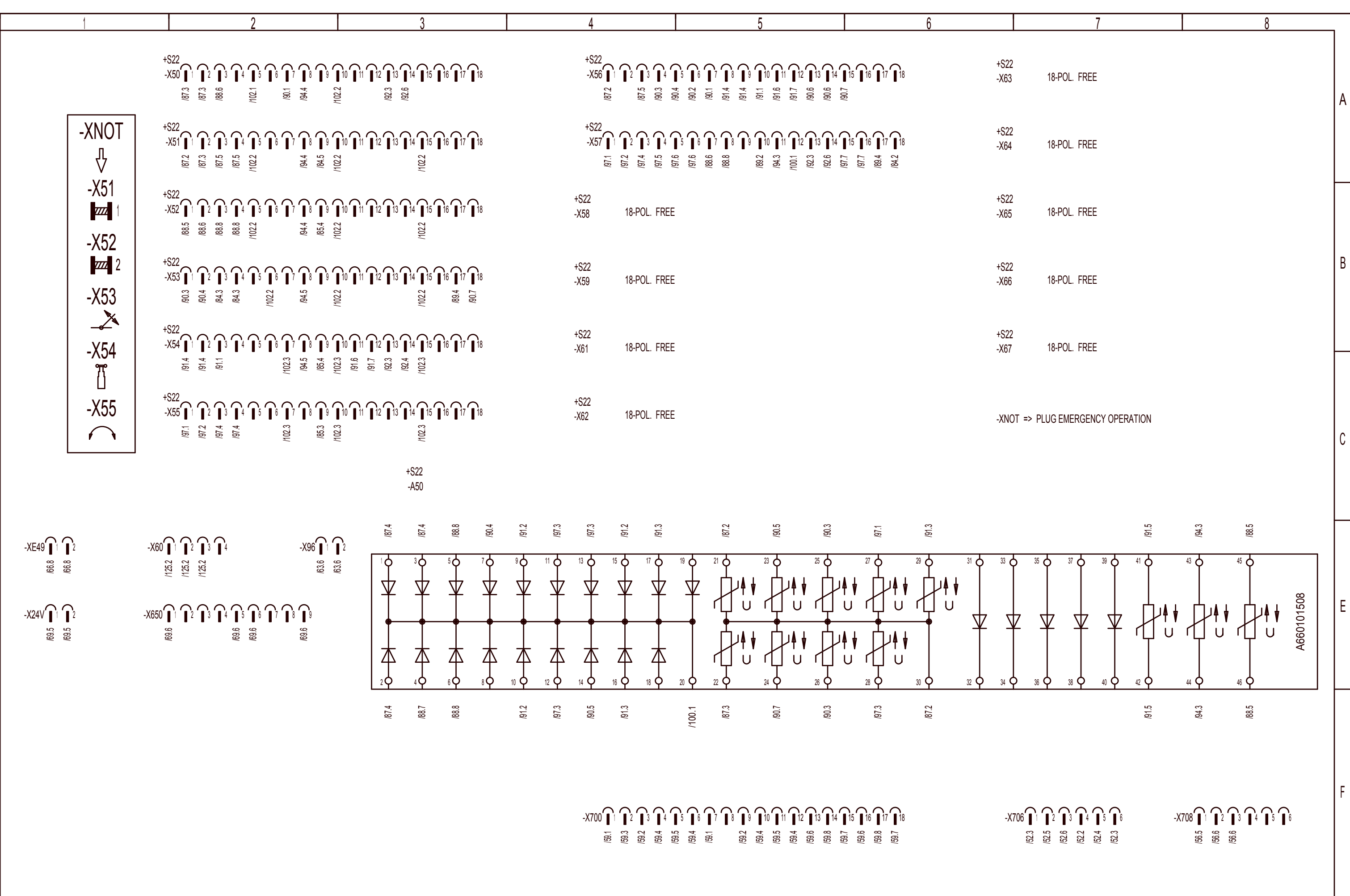
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	ADAPTOR 18- ...CHANNEL WITH  INTERFACE 4-6-8-10-14- ...CHANNEL	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	140
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		



3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	RESERVE  W159 / W156 / W301 / W302	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	141
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		

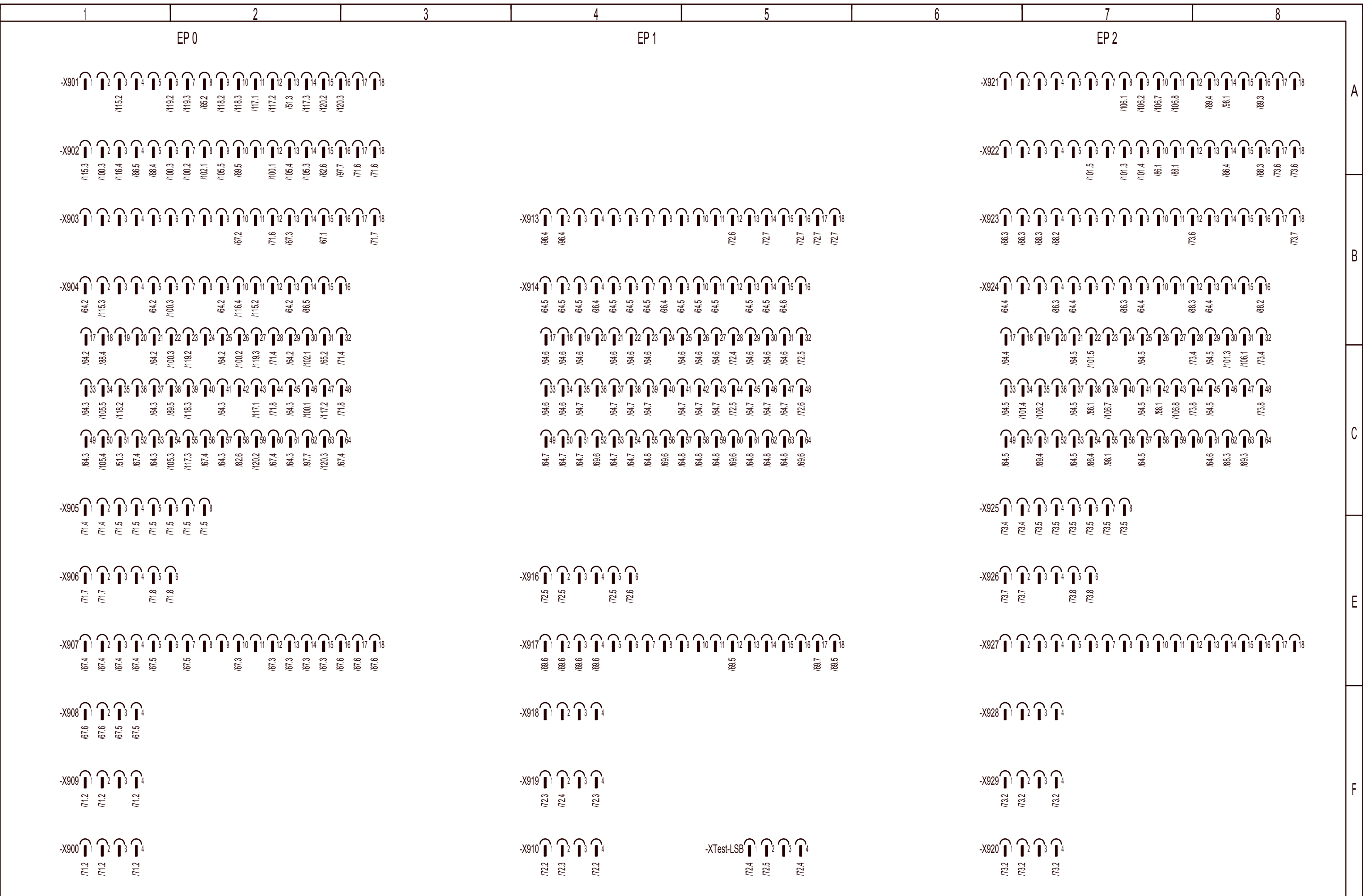


3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	PLUG GROUPING	Ident-Nr.	984061308	=	S20	
2			Ausgabe	02.02.06	lwerof0			EHINGEN	Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	143
	Änderung	Datum	Name	Datum	Name	Copyright (c)		von	165			



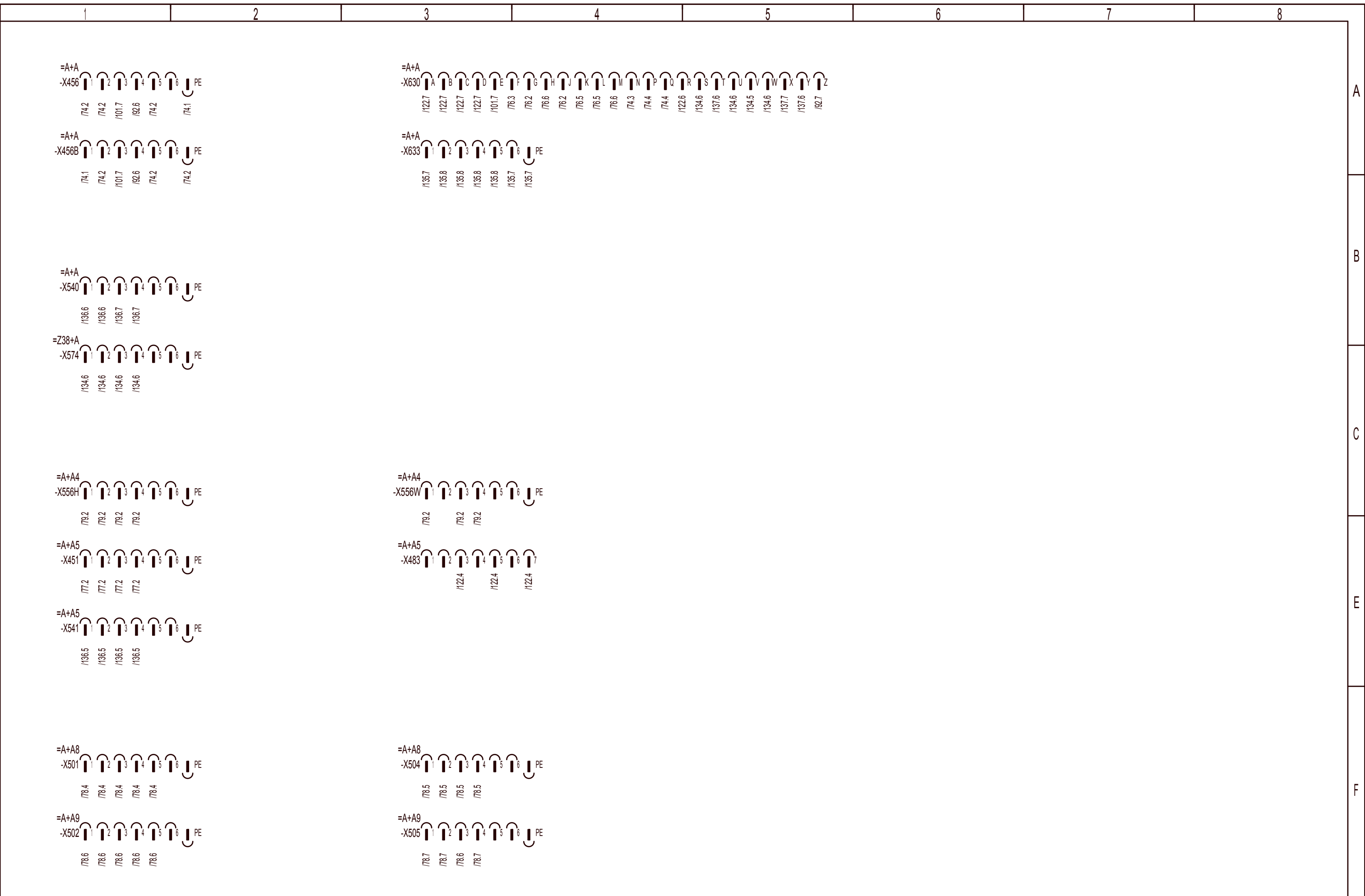
3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	PLUG GROUPING	Ident-Nr.	984061308	=	S20
2			Ausgabe	02.02.06	lwerof0			Copyright (c)	Zeich-Nr.	3372-932.04.00.001-001	+
1						Blatt					144
	Änderung	Datum				Name					Datum

































































































































































3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	PLUG GROUPING	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	145
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		





1		2		3		4		5		6		7		8																																																																																																		
<table><tr><td></td><td>HOISTING , EXTEND , UP</td><td colspan="2"></td><td>MAIN JIB</td><td colspan="2"></td><td colspan="2">SWING , SLEWING GEAR</td></tr><tr><td></td><td>LOWERING , RETRACT , DOWN</td><td colspan="2"></td><td>MAIN JIB LUFFING</td><td></td><td></td><td>SWING LEFT</td></tr><tr><td></td><td>FREE , MOVING</td><td></td><td></td><td>MAIN JIB LOWERING BOOM</td><td></td><td></td><td>SWING RIGHT</td></tr><tr><td></td><td>FORWARD , RIGHT</td><td></td><td></td><td>MAIN JIB LUFFING</td><td colspan="2"></td><td>SLEWING GEAR CIRCULATION</td></tr><tr><td></td><td>BACKWARDS , LEFT</td><td colspan="2"> LMB</td><td>LUFFING AT OVERLOAD</td><td colspan="2"> ...</td><td>HOIST GEAR , WINCH ...</td></tr><tr><td></td><td>LIMITER AFTER TOP</td><td colspan="2"></td><td>FOLDING JIB , LATTICE FLY JIB</td><td colspan="2"> ...</td><td>HOOK ...</td></tr><tr><td></td><td>LIMITER AFTER BOTTOM</td><td colspan="2"></td><td>FOLDING JIB LUFFING</td><td></td><td></td><td>HOIST GEAR HOISTING , WINCH WINDING ON</td></tr><tr><td></td><td>ANALOG</td><td></td><td></td><td>FOLDING JIB LUFFING / LOWERING BOOM</td><td></td><td></td><td>HOIST GEAR LOWERING , WINCH UNWIND</td></tr><tr><td></td><td>DIGITAL</td><td colspan="2"></td><td>TELESC. SECTION</td><td colspan="2"></td><td>WINCH WOUND ON</td></tr><tr><td></td><td>ANGLE</td><td colspan="2"></td><td>TELESCOPING</td><td colspan="2"></td><td>WINCH UNWOUND</td></tr><tr><td></td><td>OPERATING LOGIC</td><td></td><td></td><td>TELESCOPING OUT</td><td colspan="2"></td><td></td></tr><tr><td></td><td>PUMP</td><td></td><td></td><td>TELESCOPING IN</td><td colspan="2"></td><td></td></tr></table>																	HOISTING , EXTEND , UP			MAIN JIB			SWING , SLEWING GEAR			LOWERING , RETRACT , DOWN			MAIN JIB LUFFING			SWING LEFT		FREE , MOVING			MAIN JIB LOWERING BOOM			SWING RIGHT		FORWARD , RIGHT			MAIN JIB LUFFING			SLEWING GEAR CIRCULATION		BACKWARDS , LEFT	 LMB		LUFFING AT OVERLOAD	 ...		HOIST GEAR , WINCH ...		LIMITER AFTER TOP			FOLDING JIB , LATTICE FLY JIB	 ...		HOOK ...		LIMITER AFTER BOTTOM			FOLDING JIB LUFFING			HOIST GEAR HOISTING , WINCH WINDING ON		ANALOG			FOLDING JIB LUFFING / LOWERING BOOM			HOIST GEAR LOWERING , WINCH UNWIND		DIGITAL			TELESC. SECTION			WINCH WOUND ON		ANGLE			TELESCOPING			WINCH UNWOUND		OPERATING LOGIC			TELESCOPING OUT					PUMP			TELESCOPING IN			
																	HOISTING , EXTEND , UP			MAIN JIB			SWING , SLEWING GEAR																																																																																									
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3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1									Blatt		148	
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	








1	2	3	4	5	6	7	8
	BALLAST	LMB	LOAD MOMENT LIMITER		GRIPPER UNBOLTING	A	
	INCLINING CAB AFTER TOP	NT	POWER PACK		GRIPPER UNLOCKED		
	INCLINING CAB AFTER BOTTOM	ZE	CENTRAL UNIT		GRIPPER INTERLOCKED		
	WIND WARNING	EP	INPUT BOARD		TELESC. SECTION UNBOLTING	B	
	ERECTION	T	TELESCOPIC BOOM		TELESC. SECTION UNLOCKED		
	HOOTER	M	BOOM NOSE		TELESC. SECTION INTERLOCK		
	OVERDRIVE	F	FIXED LATTICE JIB , AUXILIARY JIB		TELESC. SECTION INTERLOCKED	C	
	SUPERSTRUCTURE , SUPERSTRUCTURE	KS	FOLDING JIB		GRIPPER EXTEND		
		DKS	DOUBLE FOLDING JIB				
	VEHICLE , EXCESS PRESSURE		CYLINDER		GRIPPER RETRACT	E	
	PROXIMITY SWITCH		GRIPPER		TELESC. SECTION EXTEND		
	MASTER SWITCH		INTERLOCKED , INTERLOCKED		TELESC. SECTION RETRACT		
MS	MASTER SWITCH		UNLOCKED , UNLOCKED		GRIPPER AT POSITION	F	
MS<>0	ZEROLAGE MASTER SWITCH ( NOT )						

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	149
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

1	2	3	4	5	6	7	8
	A		232 LUFFING AT OVERLOAD		D		A
	OUTRIGGERS DOWN				149 DOLLY OPERATION		
	OUTRIGGERS UP				SLEWING PLATFORM ADJUSTMENT , SUPERSTRUCTURE INTERLOCKED		B
	OUTRIGGERS - PROGRAM END		B		SLEWING PLATFORM ADJUSTMENT , SUPERSTRUCTURE UNLOCKED		
	OUTRIGGERS , SELECTION OUTRIGGER		BATTERY - VOLTAGE , CHARGE CONTROL				
	OUTRIGGERS , OUTRIGGER EXTEND		107 BALLAST UP / DOWN				C
	OUTRIGGERS , OUTRIGGER RETRACT		215 LIGHTING WINCH				
	156 * WORKING PROJECTOR AT BOOM		IMAGE CHANGE , CHANGE OVER				
	75 WORKING PROJECTOR AFTER FRONT		379 FLASHING LIGHT , FLIGHT WARNING LAMP				E
	170 WORKING PROJECTOR AFTER REAR						
	212 WORKING PROJECTOR WITH ACTUATING DRIVE						
	76 INSTRUMENT LIGHTING						F












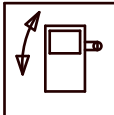








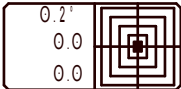
\* REMARK : FOR INSTANCE MAKRO SWF\_156

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	150
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

1	2	3	4	5	6	7	8
	F		G		H	A	
	379 * FLIGHT WARNING LAMP , FLASHING LIGHT		TRANSMISSION - FAILURE		HOOK TOP , TOP OF LIFT		
	104 RADIO , RADIO				86 HEATING : COMPLEMENTARY HEATING	B	
					207 HOOTER		
					218 PRE-HEATING HYDRAULIC OIL	C	
						E	
						F	





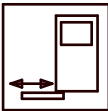












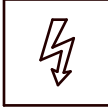



\* REMARK : FOR INSTANCE MAKRO SWF\_104

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerofo			+	S20		
1									Zeich-Nr.	3372-932.04.00.001-001	Blatt	151
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	165

1	2	3	4	5	6	7	8
	I		L		M		A
	3 * INDOOR LIGHTING		CHARGE CONTROL , BATTERY - VOLTAGE		224 MANUAL-PRESSURE INCREASE		
			25 CHARGE CONTROL		211 ERECTION		B
			LOAD MOMENT LIMITER - BUZZER OFF		ENGINE : COOLING WATER - TEMPERATURE		
			120 AIR PRESSURE < 5BAR		ENGINE : OIL PRESSURE		
	K		14 AIR FILTER , AIR FILTER CONTAMINATION		ENGINE : OIL PRESSURE		C
	244 INCLINING CAB		AIR FILTER , AIR FILTER CONTAMINATION		ENGINE - FAILURE		
	7 AIR CONDITIONING EQUIPMENT				ENGINE STOP		
	COOLING WATER - LEVEL , WATER LEVEL , LEVEL				157 PREHEATING ENGINE		E
	COOLING WATER - TEMPERATURE						
	COOLING WATER - TEMPERATURE				N		
					LEVELLING , LEVEL		F
* REMARK : FOR INSTANCE MAKRO SWF_3							








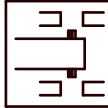

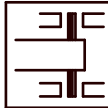


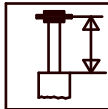






3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	152
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		



1	2	3	4	5	6	7	8
	0		S		BUZZER OFF		
			100 WINDSCREEN WIPER ROOF				
			99 WINDSCREEN WIPER FRONT				
	P		180 WINDSCREEN WIPER / WIPE-WASH ROOF				
	361 * PLATFORM EXTEND / RETRACT		179 WINDSCREEN WIPER / WIPE-WASH FRONT				
			103 OUTRIGGER - MONITORING		T		
	R		16 GREASING		TANK CONTENTS EXCESS PRESSURE		
	104 RADIO , RADIO		73 OVERDRIVE		TANK CONTENTS SUPERSTRUCTURE		
	5 WARNING BEACON		174 SEAT HEATING		TELESCOPIC BOOM : RADIUS , ANGLE		
			83 REAR MIRROR HEATING		TELESCOPIC BOOM - LENGTH		
			80 SOCKET		249 TELESCOPING / LUFFING ( SELECTION )		
			FAILURE TRANSMISSION		214 TELE DISMANTLING		

\* REMARK : FOR INSTANCE MAKRO SWF\_361

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1											Blatt	153
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	165		

1		2		3		4		5		6		7		8	
		T				U				Z					
	233 *	TELESC. SECTION UNLOCKED				OVERLOAD - BUZZER OFF				17	CENTRAL GREASING				
	245	TELESC. SECTION INTERLOCKED				CHANGE OVER , IMAGE CHANGE				86	COMPLEMENTARY HEATING				
	237	TELESC. SECTION 1 SELECTED								236	CYLINDER UNLOCKED				
	238	TELESC. SECTION 2 SELECTED				V				235	CYLINDER INTERLOCKED				
	239	TELESC. SECTION 3 SELECTED				296 PREHEAT				161	CYLINDER AT POSITION				
	240	TELESC. SECTION 4 SELECTED				157 PREHEATING ENGINE									
	241	TELESC. SECTION 5 SELECTED													
		TEMPERATURE COOLING WATER													
						W									
						WATER LEVEL , LEVEL , COOLING WATER - LEVEL									
						249 LUFFING / TELESOPING ( SELECTION )									
* REMARK : FOR INSTANCE MAKRO SWF_233															

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	DESCRIPTION OF SYMBOLS	Ident-Nr.	984061308	=	S20
2				Ausgabe	02.02.06	lwerof0			Zeich-Nr.	3372-932.04.00.001-001	+	S20
1									Blatt		154	
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	165	





1				2				3				4				5				6				7				8																
BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET																						
-A1	=K	+K3	127.3			-B4	=A	+A	76.1			-B62	=D	+D2	57.7			-B86	=Z59	+K1	126.7																							
-A2	=K	+K3	127.7			-B6	=A	+A5	76.3			-E1	=A	+A5	122.6			-E1A	=A	+A5	122.6																							
-A11	=D	+D2	58.5			-B7	=A	+A	76.2			-E2	=A	+A5	122.7			-E2A	=A	+A5	122.7																							
-A14	=S20	+S20	43.2			-B11	=D	+D2	93.4			-E4	=D	+D2	133.5			-E5	=D	+D2	133.5																							
-A15	=S20	+S20	88.6			-B12	=D	+D2	93.6			-E6	=D	+D2	122.3			-E7	=D	+D2	122.5																							
-A20	=S20	+S20	52.1			-B17	=F	+F1	96.1			-E8	=Z38	+K1	133.7			-E9	=Z38	+A	134.4																							
-A50	=S20	+S22	144.3			-B19	=K	+K2	115.1			-E10	=Z56	+A5	137.3			-E11	=D	+D2	122.4																							
-A320	=D	+D2	139.1			-B25	=Z36	+K1	125.1			-E12	=D	+D2	122.5			-E14	=D	+D2	133.3																							
-A320.F1	=D	+D2	139.1			-B26	=Z30	+D2	95.3			-E15	=Z38	+A	134.5			-E15.	=Z38	+A	134.7																							
-A320.F2	=D	+D2	139.3			-B26	=Z36	+K1	125.3			-E16	=Z66	+A5	136.5			-E17	=A	+A	135.3																							
-A330	=D	+D2	139.3			-B27	=Z30	+D2	95.4			-E18	=A	+A	135.7			-E19	=Z67	+K1	133.7																							
-A330	=D	+D2	138.1			-B28	=Z30	+D2	95.2			-E20	=P1	+P1	66.5			-E23	=Z56	+A5	136.6																							
-A330.F1	=D	+D2	139.4			-B29	=K	+K2	55.1																																			
-A330.F1	=D	+D2	138.1			-B30	=K	+K2	97.6																																			
-A330.F2	=D	+D2	139.5			-B31	=D	+D2	55.6																																			
-A330.F2	=D	+D2	138.3			-B32	=D	+D2	55.7																																			
-A340	=D	+D2	139.6			-B33	=D	+D2	53.3																																			
-A340	=D	+D2	138.6			-B34	=D	+D2	53.4																																			
-A340.F1	=D	+D2	139.6			-B35	=D	+D2	54.5																																			
-A340.F1	=D	+D2	138.6			-B36	=D	+D2	54.6																																			
-A340.F2	=D	+D2	138.8			-B37	=D	+D2	54.3																																			
-A340.F2	=D	+D2	139.8			-B38	=D	+D2	53.1																																			
-B1	=Z84	+A5	77.4			-B39	=D	+D2	54.7																																			
-B2	=D	+D2	93.2			-B55	=A	+A8	78.3																																			
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN				OPERATING EQUIPMENT											Ident-Nr.				984061308				=		S20												
2				Ausgabe	02.02.06	lwerofo																				+		S20																
1																						Zeich-Nr.				3372-932.04.00.001-001				Blatt		157												
Änderung				Datum		Name		Copyright (c)															von		165																			

1				2				3				4				5				6				7				8						
BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET												
-E49	=S20	+S20	66.8			-F62	=D	+D3	43.6			-K14	=S20	+S20	100.3			-K15	=S20	+S20	43.2													
-E60	=D	+D	123.4			-G1	=D	+D2	43.4			-K16	=S20	+S20	126.6			-K17	=S20	+S20	126.3													
-E63	=D	+D2	122.1			-G2	=D	+D3	43.7			-K18	=S20	+S20	83.7			-K19	=S20	+S20	126.7													
-E65	=D	+D2	122.1			-G3	=D	+D3	43.7			-K20	=S20	+S20	92.3			-K21	=S20	+S20	126.4													
-E66	=A	+A5	122.2			-G6	=Z25	+H0	66.1			-K22	=S20	+S20	100.4			-K23	=S20	+S20	102.2													
-E67	=A	+A5	122.1			-GSM.S1	=S20	+S20	68.3			-K24	=S20	+S20	109.4			-K25	=S20	+S20	102.3													
-E68	=A	+A5	122.1			-H21	=K	+K1	98.4			-K26	=S20	+S20	58.3			-K27	=S20	+S20	132.1													
-E69	=A	+A5	122.3			-H46	=S20	+S20	106.7			-K28	=S20	+S20	133.4			-K29	=S20	+S20	108.2													
-E70	=A	+A5	122.4			-H80	=D	+D2	98.3			-K30	=S20	+S20	110.1			-K31	=S20	+S20	135.2													
-E71	=A	+A5	122.4			-H94	=K	+K1	123.8			-K32	=S20	+S20	135.1			-K33	=S20	+S20	135.2													
-E73	=D	+D2	122.2			-H95	=Z36	+K1	125.2			-K34	=S20	+S20	136.2			-K35	=S20	+S20	131.7													
-E74	=D	+D2	122.2			-H101	=P1	+P1	51.4			-K36	=S20	+S20	57.7			-K37	=S20	+S20	95.1													
-E75	=D	+D2	122.3			-H102	=P1	+P1	51.4																									
-E96	=K	+K1	123.3			-H105	=P1	+P1	52.7																									
-E330	=D	+D2	139.4			-H106	=P1	+P1	52.7																									
-E330	=D	+D2	138.3			-H423	=P5	+P4	97.8																									
-E331	=D	+D2	138.2			-H612	=P2	+P6	110.3																									
-E331	=D	+D2	139.3			-H613	=P2	+P6	101.5																									
-E333	=D	+D2	139.2			-H627	=Z39	+P6	131.5																									
-E333	=D	+D2	138.1			-H628	=P2	+P6	126.7																									
-E600	=P2	+P6	123.5			-K1	=S20	+S20	61.4																									
-F49	=Z47	+K1	137.8			-K11	=S20	+S20	86.5																									
-F60	=D	+D3	43.4			-K12	=S20	+S20	88.5																									
-F61	=D	+D3	43.5			-K13	=S20	+S20	102.2																									
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr.				984061308				=		S20							
2				Ausgabe	02.02.06	lwerof0															+		S20											
1						Zeich-Nr.											3372-932.04.00.001-001								Blatt		158							
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1				2				3				4				5				6				7				8			
BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET									
-K38	=S20	+S20	101.7			-M10	=K	+K1	132.5			-R53	=S20	+S20	102.7			-R59	=S20	+S20	102.4										
-K39	=S20	+S20	134.2			-M11	=S20	+S20	63.6			-S1	=D	+D3	43.5			-S26	=D	+D2	106.3										
-K51	=S20	+S22	84.5			-M13	=Z30	+D2	95.7			-S27	=D	+D2	106.4			-S28	=D	+D2	106.5										
-K52	=S20	+S22	85.4			-M14	=K	+K1	123.6			-S29	=D	+D2	106.6			-S30	=D	+D2	105.3										
-K53	=S20	+S22	84.3			-M23	=A	+A	135.3			-S31	=D	+D2	109.4			-S32	=D	+D2	105.3										
-K54	=S20	+S22	85.4			-M168	=D	+D2	142.4			-S34	=D	+D2	96.3			-S35	=D	+D2	96.4										
-K55	=S20	+S22	89.2			-N1	=A	+A	142.1			-S49	=D	+D2	86.1			-S69	=D	+D2	110.3										
-K56	=S20	+S22	84.4			-N1	=F	+F1	142.1			-S72	=D	+D2	107.7			-S73	=D	+D2	107.6										
-K57	=S20	+S22	85.3			-N2	=A	+A	142.1			-S77	=Z39	+D2	131.7			-S78	=Z39	+K1	131.7										
-K58	=S20	+S22	92.4			-N2AS	=A	+A	137.5			-S81	=S20	+S20	100.3			-S83	=Z37	+K3	126.4										
-K59	=S20	+S22	92.5			-N3	=A	+A	142.2			-S84	=Z48	+K1	43.2			-S89	=K	+K3	126.1										
-K60	=S20	+S22	97.5			-P2	=D	+D5	86.2			-S90	=K	+K3	126.3			-S99	=K	+K1	82.6										
-K61	=S20	+S22	90.8			-P12	=D	+D2	107.5																						
-K62	=S20	+S22	84.3			-P654	=P2	+P6	126.3																						
-K651	=P2	+P6	124.3			-P655	=P2	+P6	52.8																						
-K652	=P2	+P6	124.7			-R1	=D	+D2	133.3																						
-M1	=D	+D2	43.5			-R2	=Z55	+K1	132.3																						
-M2	=D	+D2	109.5			-R3	=Z55	+K1	132.4																						
-M3	=K	+K1	124.1			-R4	=D	+D2	57.4																						
-M4	=K	+K1	124.5			-R9	=D	+D2	52.2																						
-M5	=K	+K3	126.2			-R21	=D	+D3	43.8																						
-M6	=K	+K1	124.3			-R50	=S20	+S20	102.3																						
-M7	=K	+K1	124.7			-R51	=S20	+S20	102.4																						
-M9	=K	+K3	126.3			-R52	=S20	+S20	102.4																						
3				Gez.	27.04.04	lweeih0	OPERATING EQUIPMENT										Ident-Nr.				984061308				= S20						
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET																		
-S103	=P1	+P1	44.3			-S428	=P5	+P4	120.2			-S902	=A	+A	75.3			-S903	=A	+A	75.4																			
-S104	=P1	+P1	46.2			-S602	=P2	+P6	124.5			-S904	=A	+A	75.5			-S905	=A	+A	75.6																			
-S301	=P5	+P3	83.5			-S604	=P2	+P6	124.7			-S908	=A	+A	101.6			-S912	=A	+A	74.4																			
-S301	=P5	+P3	82.4			-S606	=P2	+P6	124.1			-S913	=A	+A	74.7			-S914	=A	+A	74.5																			
-S301	=P5	+P3	84.2			-S608	=P2	+P6	124.3			-S915	=A	+A	74.6			-S918	=A	+A	74.2																			
-S320	=P5	+P3	115.3			-S610	=P2	+P6	121.4			-S919	=A	+A	74.3			-S930	=A	+A5	77.1																			
-S321	=P5	+P3	118.2			-S618	=P2	+P6	101.4			-S940	=A	+A8	78.5			-S945	=A	+A9	78.6																			
-S322	=P5	+P3	89.3			-S620	=P2	+P6	102.6			-T50	=S20	+S20	125.2			-T51	=S20	+S20	125.5																			
-S323	=P5	+P3	98.1			-S622	=P2	+P6	102.5			-X1	=S20	+S20	143.1			-X2	=S20	+S20	143.1																			
-S324	=P5	+P3	57.1			-S626	=Z37	+P6	126.5			-X3	=S20	+S20	143.1			-X4	=S20	+S20	143.1																			
-S325	=P5	+P3	117.1			-S630	=Z39	+P6	131.4			-X5	=S20	+S20	143.1			-X6	=S20	+S20	143.1																			
-S326	=P5	+P3	117.2			-S632	=P2	+P6	123.3			-X7	=S20	+S20	143.1			-X8	=S20	+S20	143.1																			
-S327	=P5	+P3	119.2			-S634	=Z71	+P6	133.3																															
-S328	=P5	+P3	119.2			-S636	=Z67	+P6	133.7																															
-S390	=D	+D2	139.5			-S638	=Z65	+P6	134.2																															
-S390	=D	+D2	138.4			-S640	=Z66	+P6	135.2																															
-S401	=P5	+P4	83.1			-S642	=Z66	+P6	135.5																															
-S401	=P5	+P4	82.1			-S644	=Z49	+P6	137.1																															
-S401	=P5	+P4	85.2			-S646	=Z55	+P6	132.3																															
-S420	=P5	+P4	97.7			-S648	=P2	+P6	108.6																															
-S421	=P5	+P4	107.3			-S650	=P2	+P6	123.1																															
-S424	=P5	+P4	89.5			-S658	=P2	+P6	106.3																															
-S425	=P5	+P4	107.3			-S660	=P2	+P6	105.1																															
-S427	=P5	+P4	120.2			-S901	=A	+A	75.2																															
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN					OPERATING EQUIPMENT										Ident-Nr.				984061308				=		S20								
2				Ausgabe	02.02.06	lwerofo																+		S20																
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET																								
-X9	=S20	+S20	143.1			-X40	=S20	+S20	143.6			-X124	=P5	+P4	146.1			-X126	=P5	+P4	146.3																									
-X11	=S20	+S20	143.1			-X45	=S20	+S20	142.5			-X131	=K	+K1	146.1			-X134	=Z36	+K1	146.1																									
-X12	=S20	+S20	143.1			-X48	=S20	+S20	125.4			-X136	=K	+K1	146.3			-X137	=K	+K1	146.1																									
-X14	=S20	+S20	143.4			-X49	=S20	+S20	66.7			-X138	=K	+K1	146.3			-X139	=K	+K1	146.1																									
-X16	=S20	+S20	143.4			-X50	=S20	+S22	144.2			-X142	=K	+K1	146.3			-X143	=K	+K1	146.1																									
-X17	=S20	+S20	143.4			-X51	=S20	+S22	144.2			-X144	=P2	+P6	146.3			-X146	=P2	+P6	146.1																									
-X20	=S20	+S20	143.4			-X52	=S20	+S22	144.2			-X147	=P2	+P6	146.2			-X148	=P2	+P6	146.3																									
-X21	=S20	+S20	143.4			-X53	=S20	+S22	144.2			-X150	=P2	+P6	146.3			-X181	=K	+K3	146.1																									
-X22	=S20	+S20	143.4			-X54	=S20	+S22	144.2			-X182	=K	+K3	146.2			-X183	=K	+K3	146.3																									
-X24V	=S20	+S20	144.1			-X55	=S20	+S22	144.2			-X184	=K	+K3	146.4			-X185	=K	+K1	146.5																									
-X26	=S20	+S20	143.4			-X56	=S20	+S22	144.4			-X190	=K	+K2	146.4			-X191	=K	+K2	146.5																									
-X27	=S20	+S20	143.4			-X57	=S20	+S22	144.4			-X192	=K	+K2	146.4			-X201	=Z39	+D2	146.4																									
-X28	=S20	+S20	143.6			-X60	=S20	+S20	144.2																																					
-X29	=S20	+S20	143.6			-X70	=S20	+S20	33.1																																					
-X30	=S20	+S20	143.6			-X71	=S20	+S20	34.1																																					
-X31	=S20	+S20	143.6			-X72	=S20	+S20	35.1																																					
-X32	=S20	+S20	143.6			-X77	=S20	+S20	32.2																																					
-X33	=S20	+S20	143.6			-X96	=S20	+S20	144.2																																					
-X34	=S20	+S20	143.6			-X101	=P1	+P1	146.1																																					
-X35	=S20	+S20	143.6			-X103	=P1	+P1	146.3																																					
-X36	=S20	+S20	143.6			-X109	=P1	+P1	146.3																																					
-X37	=S20	+S20	143.6			-X111	=P5	+P3	146.1																																					
-X38	=S20	+S20	143.6			-X115	=P5	+P3	146.3																																					
-X39	=S20	+S20	143.6			-X121	=P5	+P4	146.1																																					
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN				OPERATING EQUIPMENT												Ident-Nr.				984061308				=		S20													
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET																			
-X202	=D	+D2	146.5			-X272	=D	+D2	146.7			-X635A	=S20	+S20	34.1			-X635B	=S20	+S20	35.1																				
-X203	=D	+D2	146.4			-X298	=D	+D2	139.8			-X650	=S20	+S20	144.2			-X661	=S20	+S20	30.2																				
-X204	=D	+D2	146.5			-X298	=D	+D2	138.8			-X662	=S20	+S20	30.3			-X663	=S20	+S20	30.1																				
-X205	=D	+D2	146.4			-X306	=D	+D6	146.7			-X664	=S20	+S20	30.1			-X665	=S20	+S20	30.1																				
-X209	=Z39	+D2	146.5			-X335	=D	+D2	138.2			-X700	=S20	+S20	144.4			-X701	=S20	+S20	31.5																				
-X217	=D	+D2	146.4			-X335	=D	+D2	139.3			-X702	=S20	+S20	31.1			-X703	=S20	+S20	31.1																				
-X247	=D	+D2	146.5			-X451	=A	+A5	147.1			-X704	=S20	+S20	31.2			-X705	=S20	+S20	31.5																				
-X250	=D	+D2	146.4			-X456	=A	+A	147.1			-X706	=S20	+S20	144.7			-X708	=S20	+S20	144.8																				
-X250A	=D	+D2	146.5			-X456B	=A	+A	147.1			-X900	=S20	+S20	145.1			-X901	=S20	+S20	145.1																				
-X251	=D	+D2	146.4			-X483	=A	+A5	147.3			-X902	=S20	+S20	145.1			-X903	=S20	+S20	145.1																				
-X252	=D	+D2	146.5			-X501	=A	+A8	147.1			-X904	=S20	+S20	145.1			-X905	=S20	+S20	145.1																				
-X253	=D	+D2	146.4			-X502	=A	+A9	147.1			-X906	=S20	+S20	145.1			-X907	=S20	+S20	145.1																				
-X254	=D	+D2	146.5			-X504	=A	+A8	147.3																																
-X255	=D	+D2	146.4			-X505	=A	+A9	147.3																																
-X256	=D	+D2	146.5			-X519	=K	+K1	66.6																																
-X257	=D	+D2	146.4			-X540	=A	+A	147.1																																
-X258	=D	+D2	146.5			-X541	=A	+A5	147.1																																
-X259	=D	+D2	146.7			-X556H	=A	+A4	147.1																																
-X260	=D	+D2	146.8			-X556W	=A	+A4	147.3																																
-X262	=D	+D2	146.7			-X574	=Z38	+A	147.1																																
-X268	=D	+D2	146.7			-X630	=A	+A	147.3																																
-X269	=D	+D2	146.8			-X631	=P1	+P2	146.1																																
-X270	=D	+D3	146.7			-X633	=A	+A	147.3																																
-X271	=D	+D2	146.8			-X635	=S20	+S20	33.1																																
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN				OPERATING EQUIPMENT											Ident-Nr.				984061308				=		S20									
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET																						
-X908	=S20	+S20	145.1			-XM5	=S20	+S20	50.4			-Y23	=D	+D2	105.2																													
-X909	=S20	+S20	145.1			-XM6	=S20	+S20	50.4			-Y26	=D	+D2	52.5																													
-X910	=S20	+S20	145.4			-XM160	=D	+D2	146.7			-Y27	=D	+D2	57.5																													
-X913	=S20	+S20	145.4			-XM304.1	=D	+D2	146.7			-Y28	=Z37	+K3	126.5																													
-X914	=S20	+S20	145.4			-XM304.2	=D	+D2	146.7			-Y31	=D	+D2	94.4																													
-X916	=S20	+S20	145.4			-XM304.3	=D	+D2	146.7			-Y32	=D	+D2	94.5																													
-X917	=S20	+S20	145.4			-XM304.4	=D	+D2	146.7			-Y38	=D	+D2	92.3																													
-X918	=S20	+S20	145.4			-XTest-LSB	=S20	+S20	145.5			-Y40	=A	+A	92.6																													
-X919	=S20	+S20	145.4			-Y1a	=D	+D2	87.2			-Y49	=D	+D2	91.1																													
-X920	=S20	+S20	145.6			-Y1b	=D	+D2	87.3			-Y56	=D	+D2	57.6																													
-X921	=S20	+S20	145.6			-Y3	=D	+D2	87.5			-Y59	=D	+D2	108.3																													
-X922	=S20	+S20	145.6			-Y4a	=D	+D2	90.3			-Y66	=D	+D2	97.1																													
-X923	=S20	+S20	145.6			-Y4b	=D	+D2	90.2			-Y67	=D	+D2	97.2																													
-X924	=S20	+S20	145.6			-Y5	=D	+D2	90.4			-Y69	=D	+D2	110.2																													
-X925	=S20	+S20	145.6			-Y6a	=D	+D2	91.4			-Y80a	=D	+D2	90.6																													
-X926	=S20	+S20	145.6			-Y6b	=D	+D2	91.4			-Y80b	=D	+D2	90.6																													
-X927	=S20	+S20	145.6			-Y10	=D	+D2	90.1			-Y82	=D	+D2	90.7																													
-X928	=S20	+S20	145.6			-Y11	=D	+D2	91.6			-Y85a	=D	+D2	107.6																													
-X929	=S20	+S20	145.6			-Y12	=D	+D2	91.7			-Y85b	=D	+D2	107.7																													
-XE49	=S20	+S20	144.1			-Y19a	=D	+D2	106.3			-Y103a	=D	+D2	107.3																													
-XM1	=S20	+S20	50.1			-Y19b	=D	+D2	106.3			-Y103b	=D	+D2	107.3																													
-XM2	=S20	+S20	50.1			-Y20	=D	+D2	97.4			-Y109	=D	+D2	97.5																													
-XM3	=S20	+S20	50.1			-Y21	=D	+D2	97.6			-Y137	=Z39	+D2	131.4																													
-XM4	=S20	+S20	50.4			-Y22	=D	+D2	105.1			-Y139	=Z37	+D2	126.7																													
3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN				OPERATING EQUIPMENT											Ident-Nr.				984061308				=		S20												
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	Änderung	Datum	Name		Datum	Name	Copyright (c)																																					von

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BMK		SYSTEM		PLACE	SHEET	BMK	SYSTEM	PLACE	SHEET	BMK	SYSTEM	PLACE	SHEET		
-Y141	=D	+D2	108.6											A	
-Y142	=D	+D2	108.6											B	
														C	
														E	
														F	

3				Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	OPERATING EQUIPMENT	Ident-Nr.	984061308	=	S20
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3			Gez.	27.04.04	lweeih0	LIEBHERR WERK EHINGEN	MODIFICATIONS , VERSION	Ident-Nr.	984061308	=	S20
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1								Zeich-Nr.	3372-932.04.00.001-001	Blatt	165
	Änderung	Datum						Name	Datum	Name	Copyright (c)