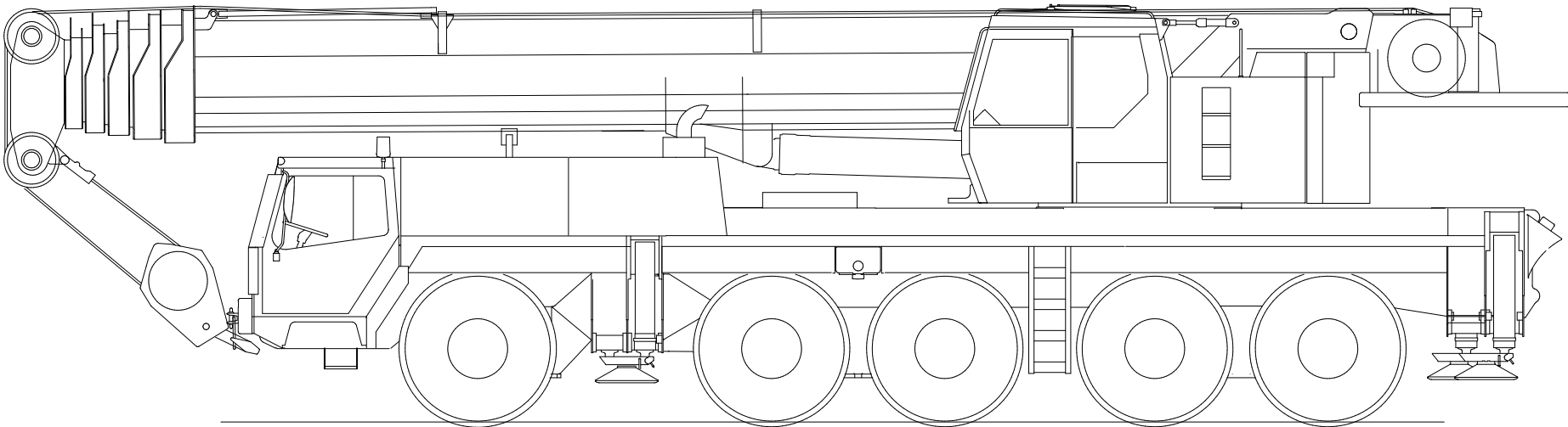


LTM 1120/1

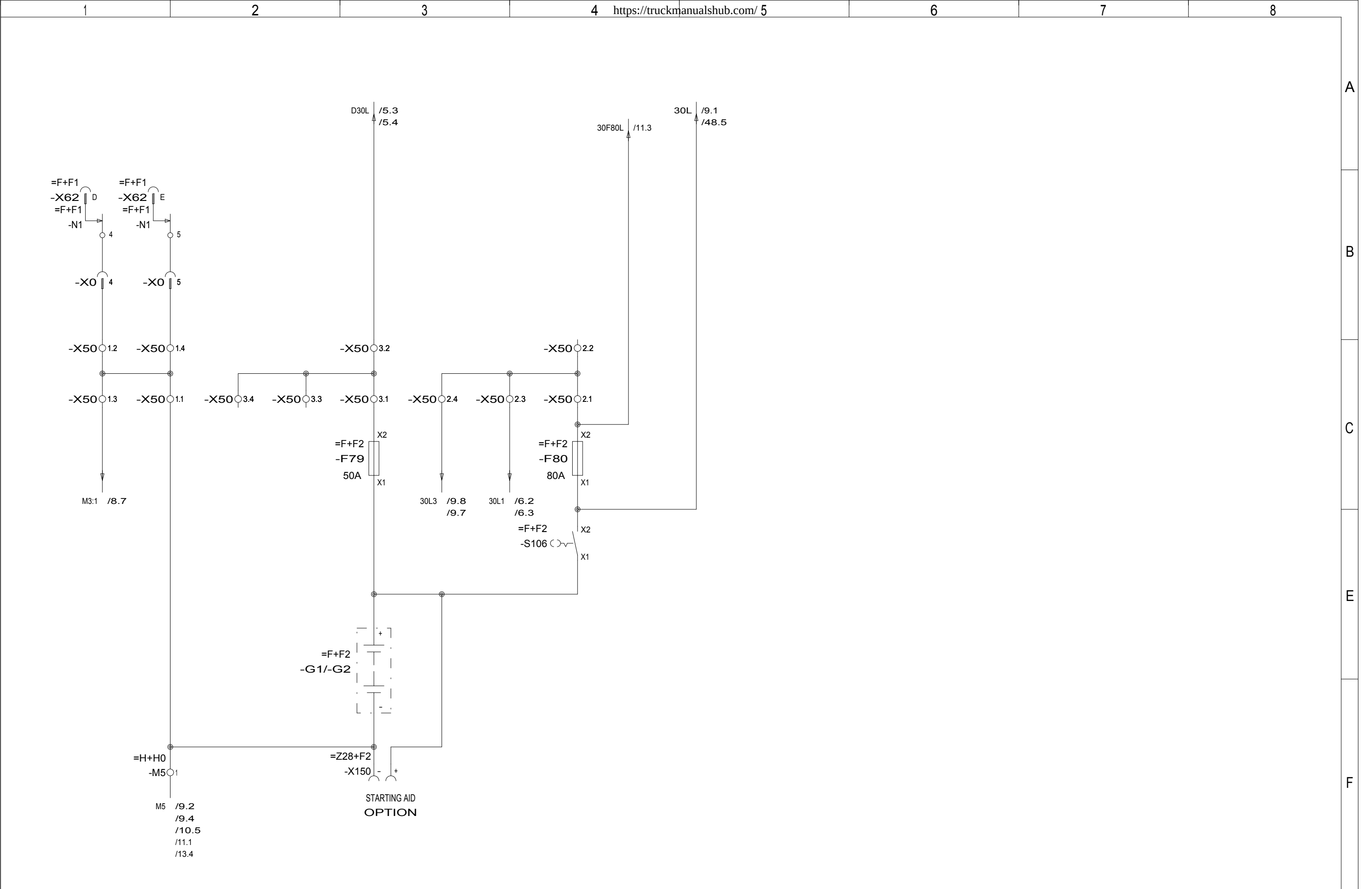
LH - ENGINE

ALLISON - TRANSMISSION

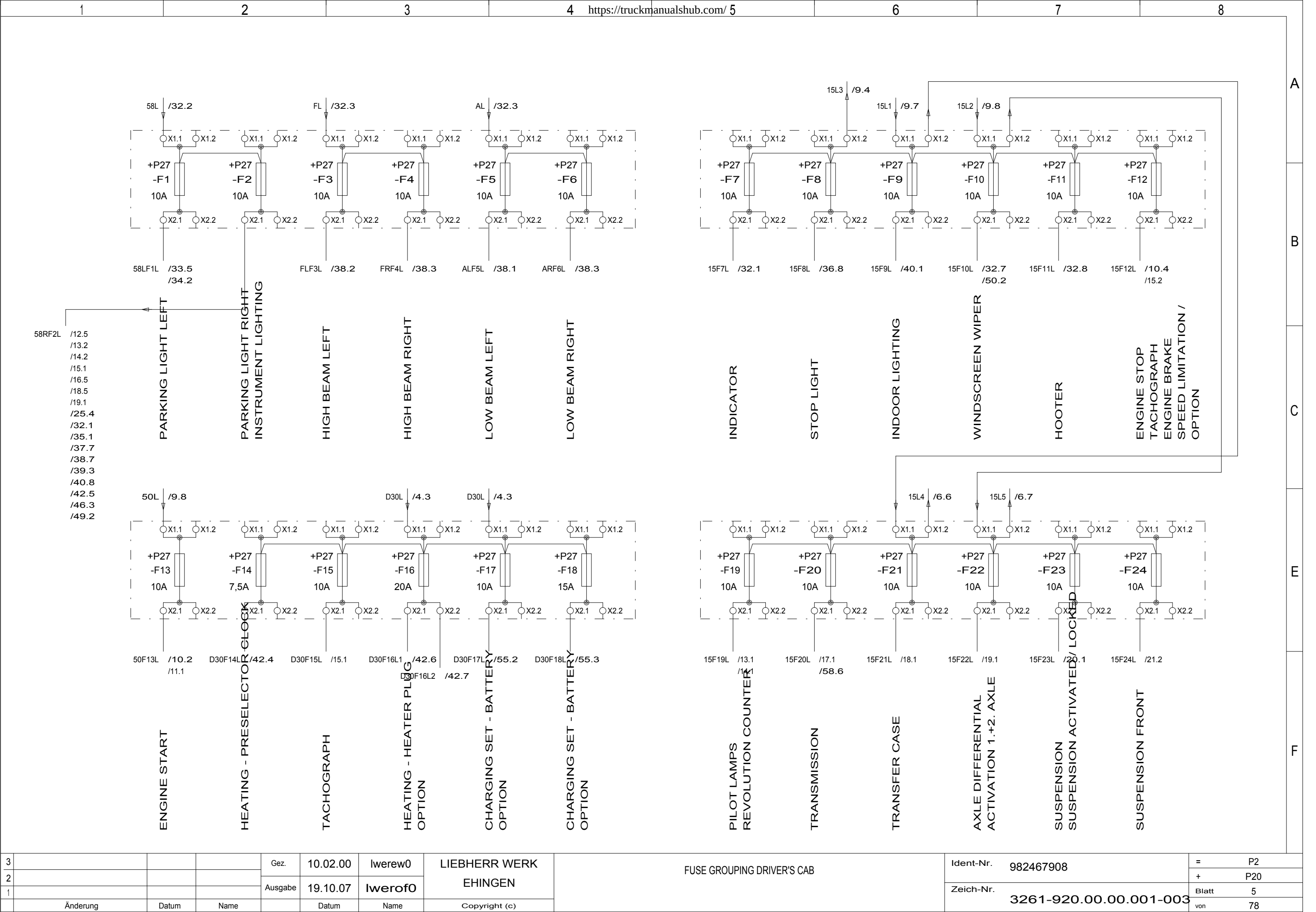


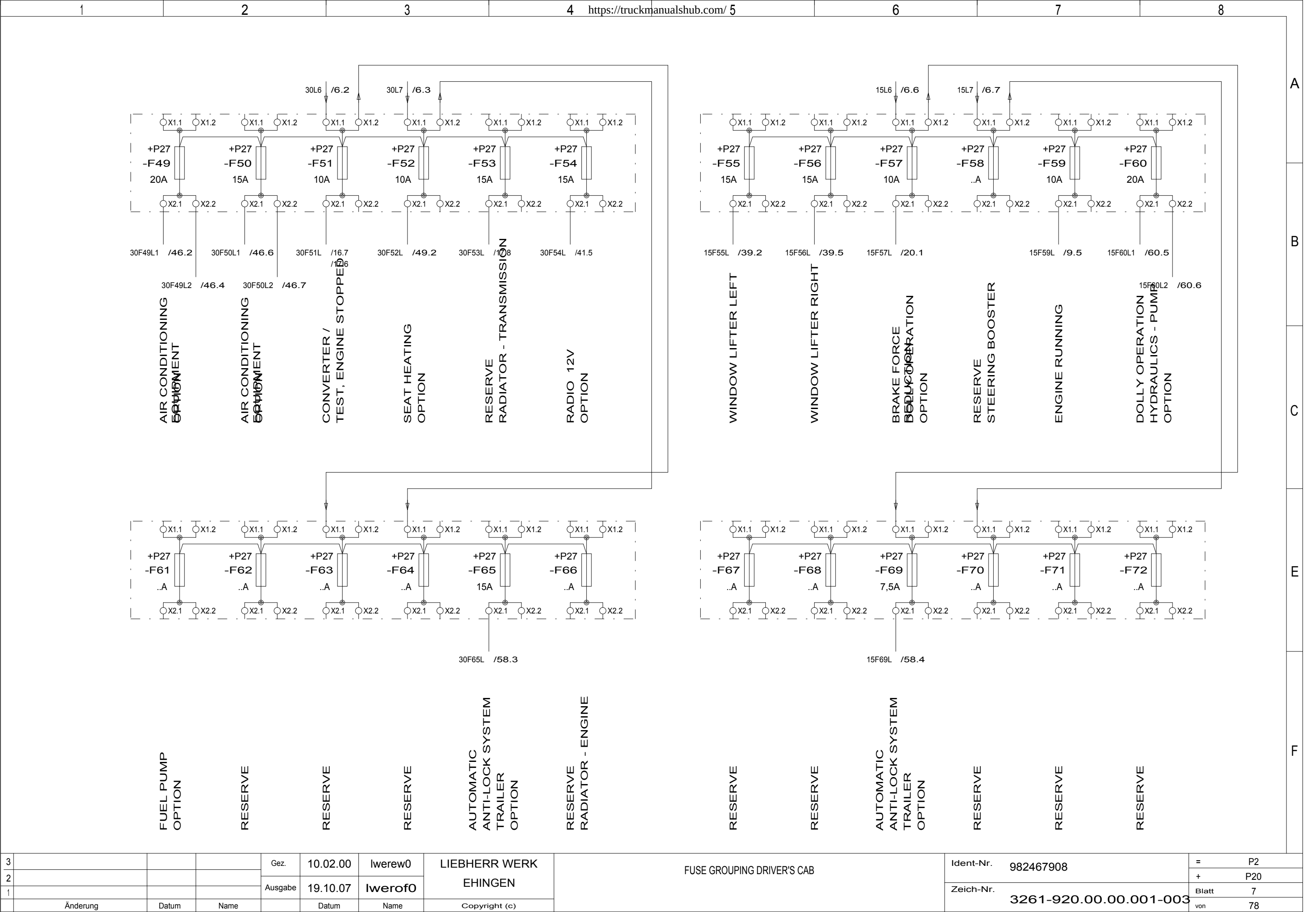
1		2		3		4		https://truckmanualshub.com/ 5		6		7		8					
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3				Gez.	01.07.04	dpl	LIEBHERR WERK EHINGEN	REGISTER OF SHEETS	Ident-Nr.	982467908	= P2			
2				Ausgabe	19.10.07	IwerofO					+			
1						Zeich-Nr.			3261-920.00.00.001-003	Blatt 2				
	Änderung	Datum	Name		Datum		Name			Copyright (c)	von 78			



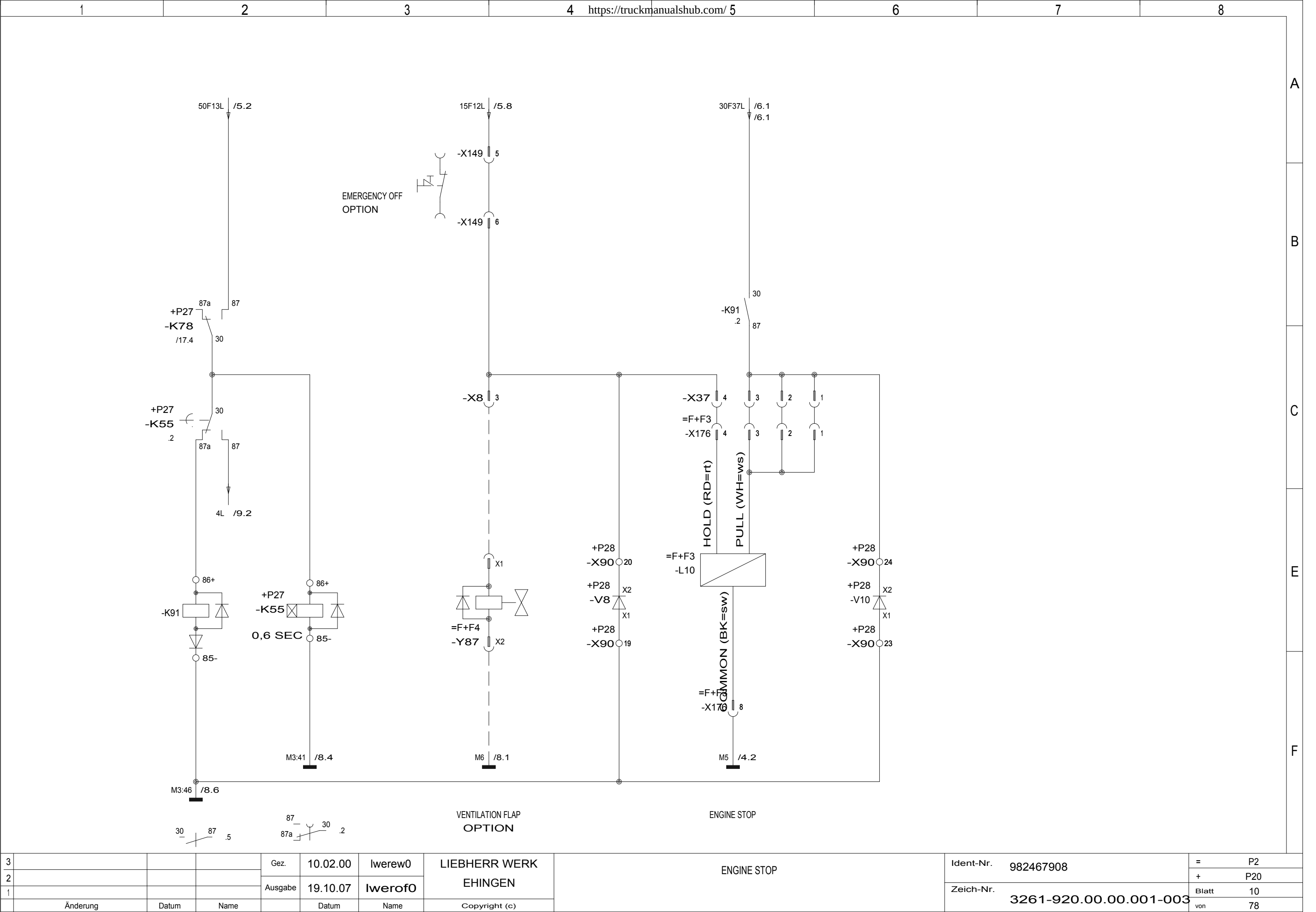
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	BATTERIES , STARTING AID OPTION	Ident-Nr.	982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0			+	P20		
1									Blatt	4		
	Änderung	Datum	Name		Datum	Name	Copyright (c)		Zeich-Nr.	3261-920.00.00.001-003	von	78



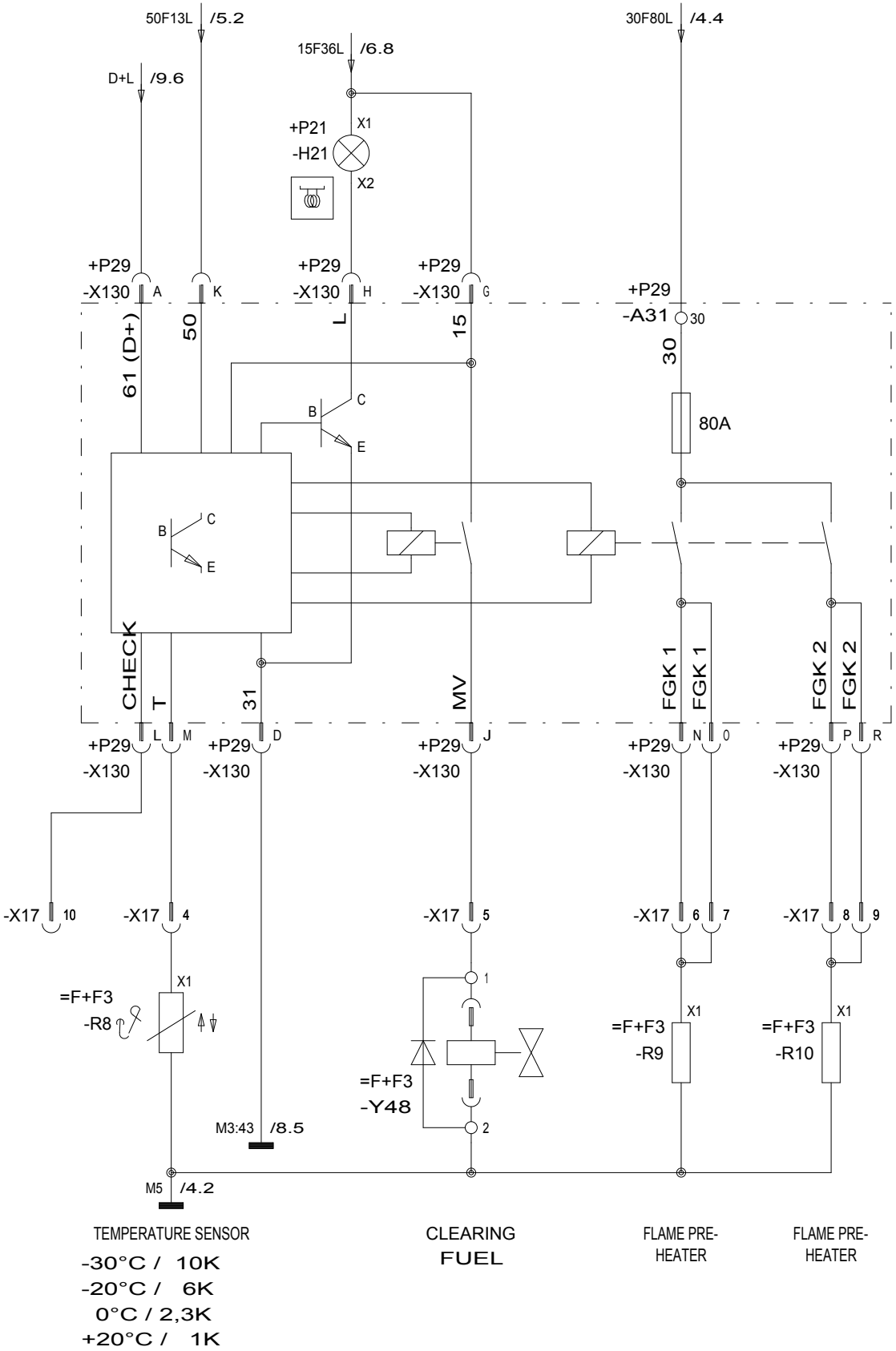


3			Gez.	10.02.00	Iwerew0	LIEBHERR WERK
2			Ausgabe	19.10.07	Iwerof0	EHINGEN
1						
	Änderung	Datum	Name	Datum	Name	Copyright (c)

FUSE GROUPING DRIVER'S CAB			Ident-Nr.	982467908	=	P2
			Zeich-Nr.	3261-920.00.00.001-003	+	P20
					Blatt	7
					von	78



3			Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	ENGINE STOP	Ident-Nr. 982467908	=	P2
2			Ausgabe	19.10.07	Iwerof0				+	P20
1									Blatt	10
	Änderung	Datum	Name	Datum	Name	Copyright (c)			Zeich-Nr. 3261-920.00.00.001-003	von



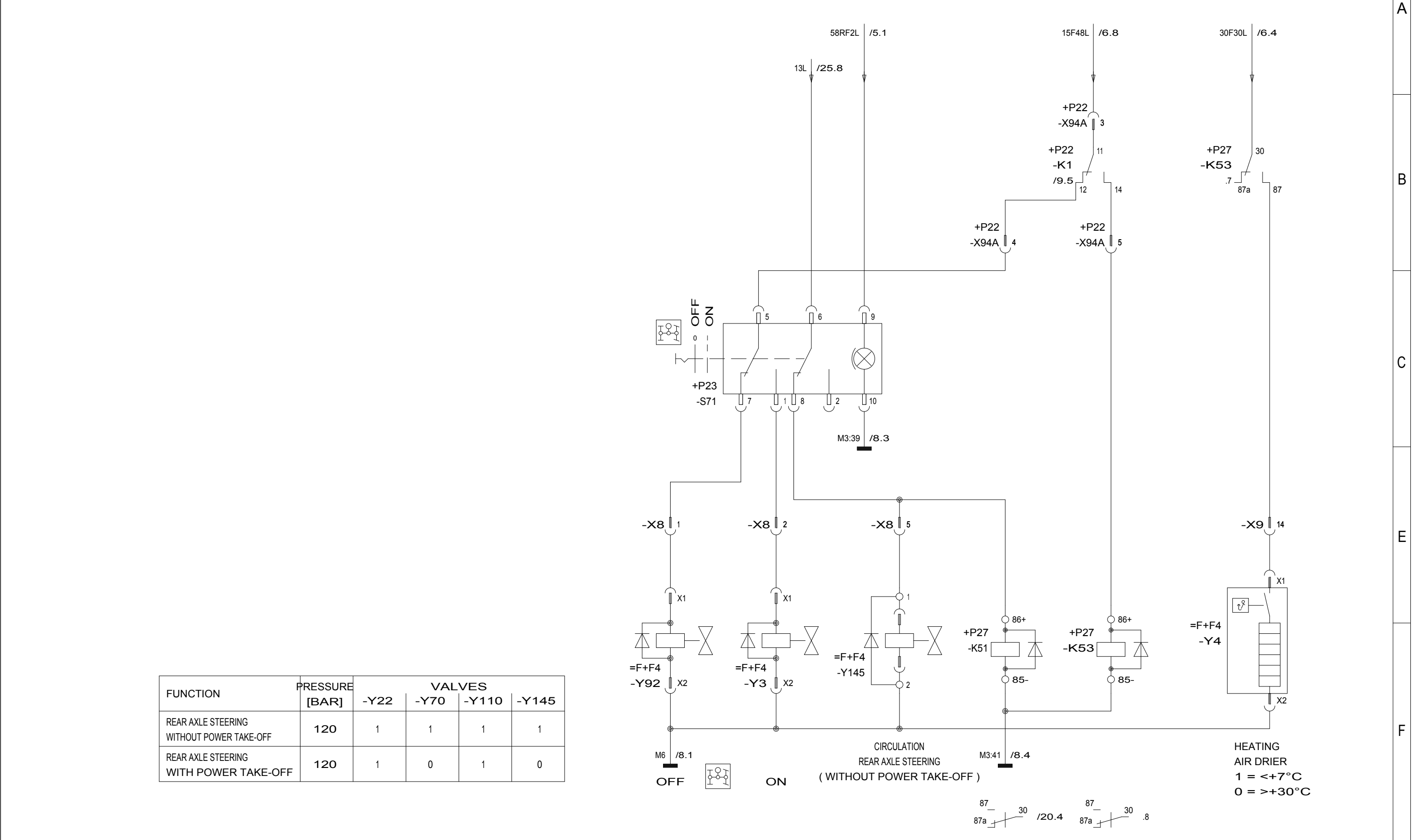
NORMAL OPERATION

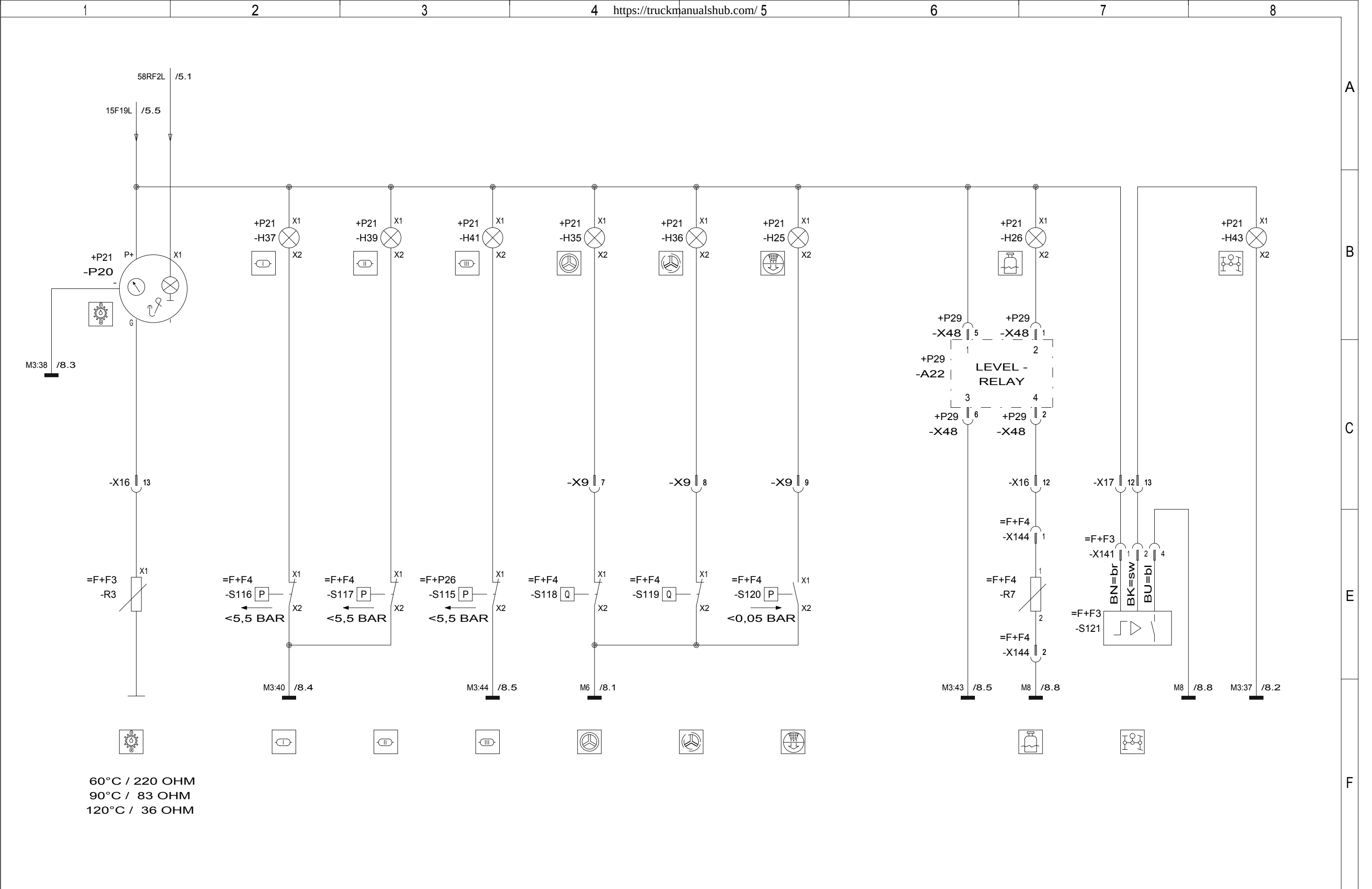
PLUG =P2+P29-X130	CLAMP	
—	30	BATTERY ON
G	15	IGNITION ON
H	L	END PREHEAT ,START READY FOR STARTING
N,O,P,R	FGK	END REANNEAL
K	50	STARTER ON
A	61	STARTER OFF
J	MV	GENERATOR ON
		MAGNETVALVE ON
		MAGNETVALVE OFF
D	31	EARTH
M	T	TEMPERATURE SENSOR
L	CHECK	CHECK

FLAMME STARTING DEVICE >20±5°C WITHOUT FUNCTION !

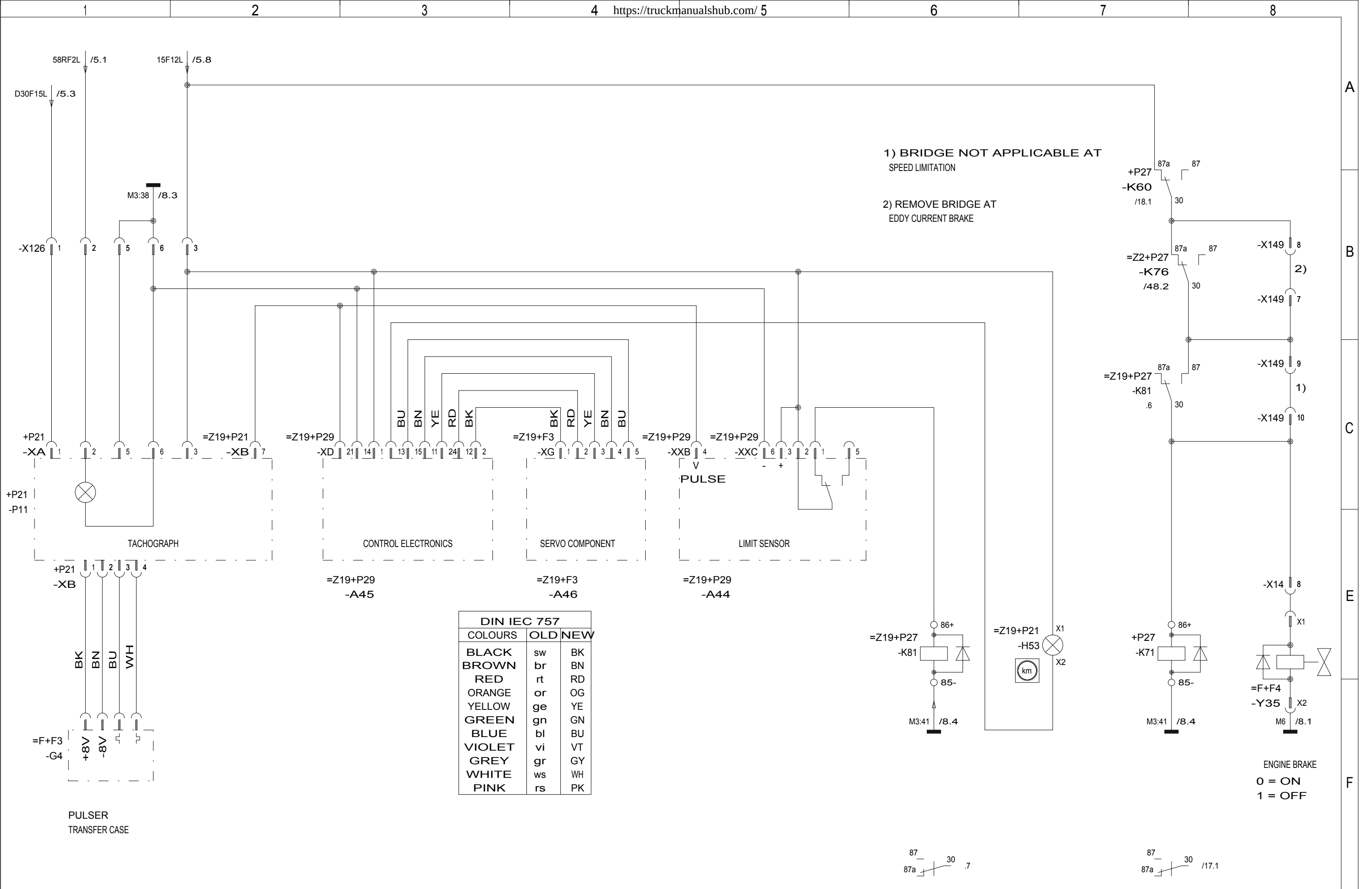
CHECK FLAMME STARTING DEVICE >20±5°C:

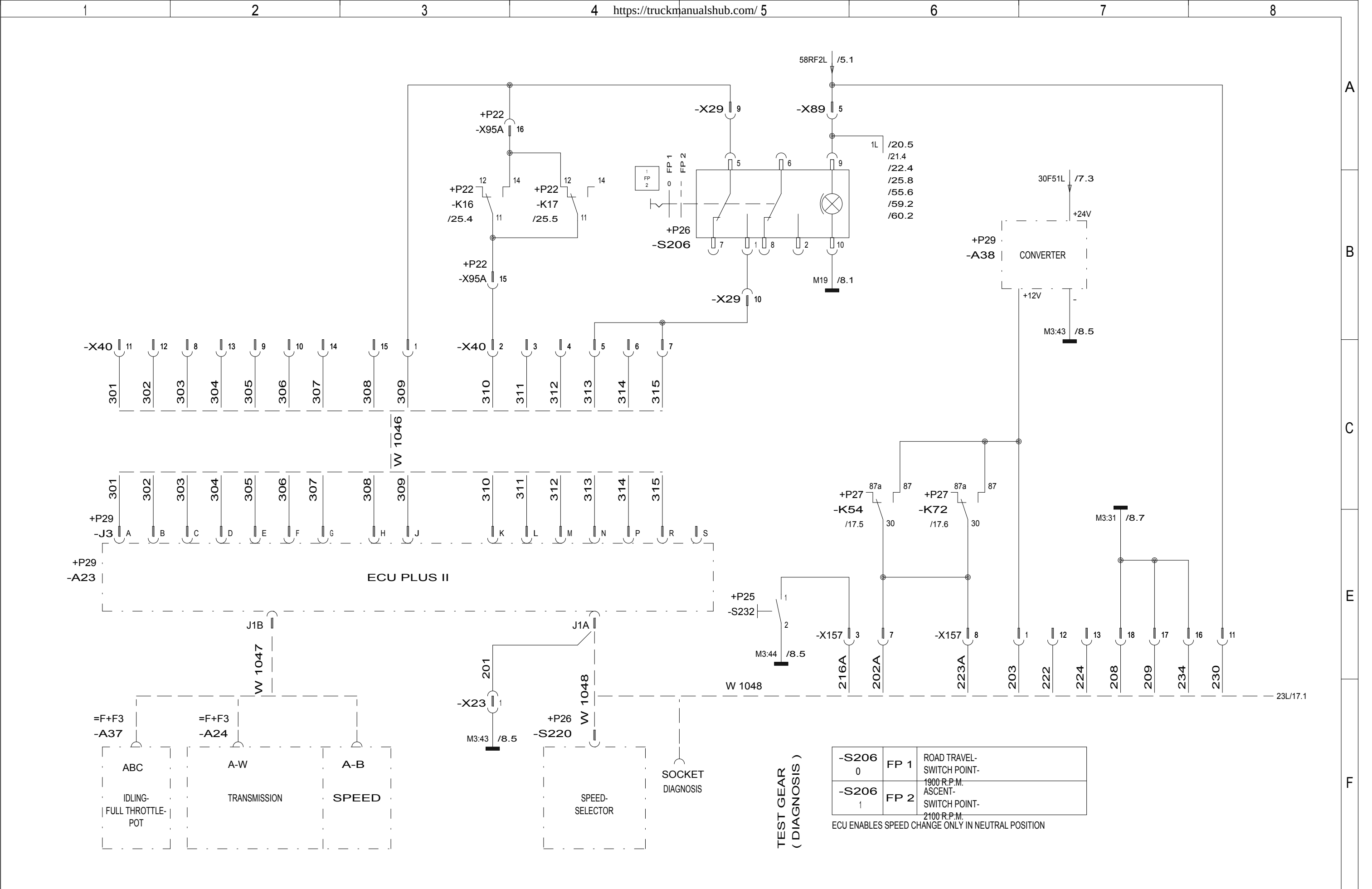
PLUG -P2+P20-X17:10 SHUNT AFTER EARTH M3:43!

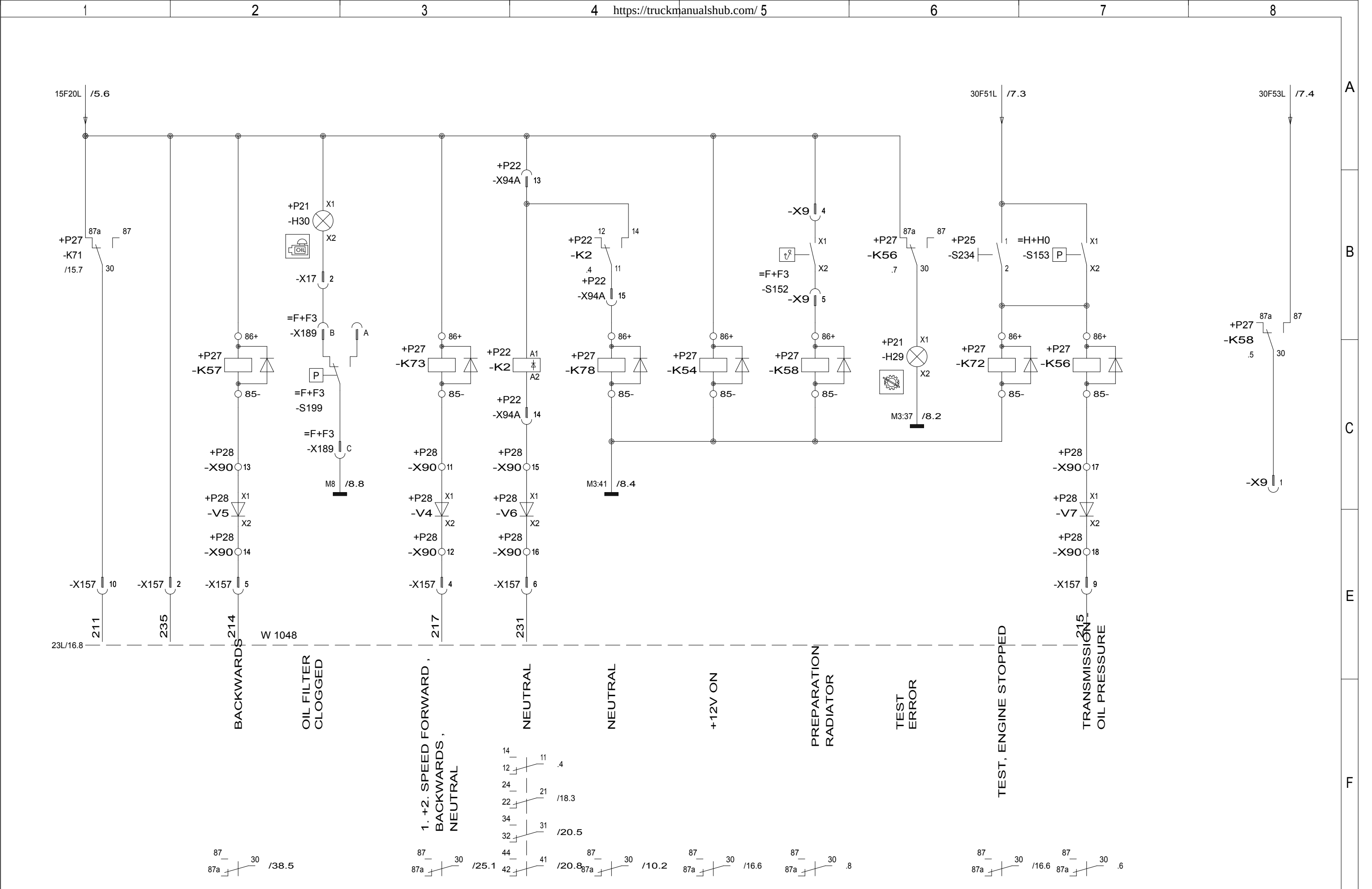




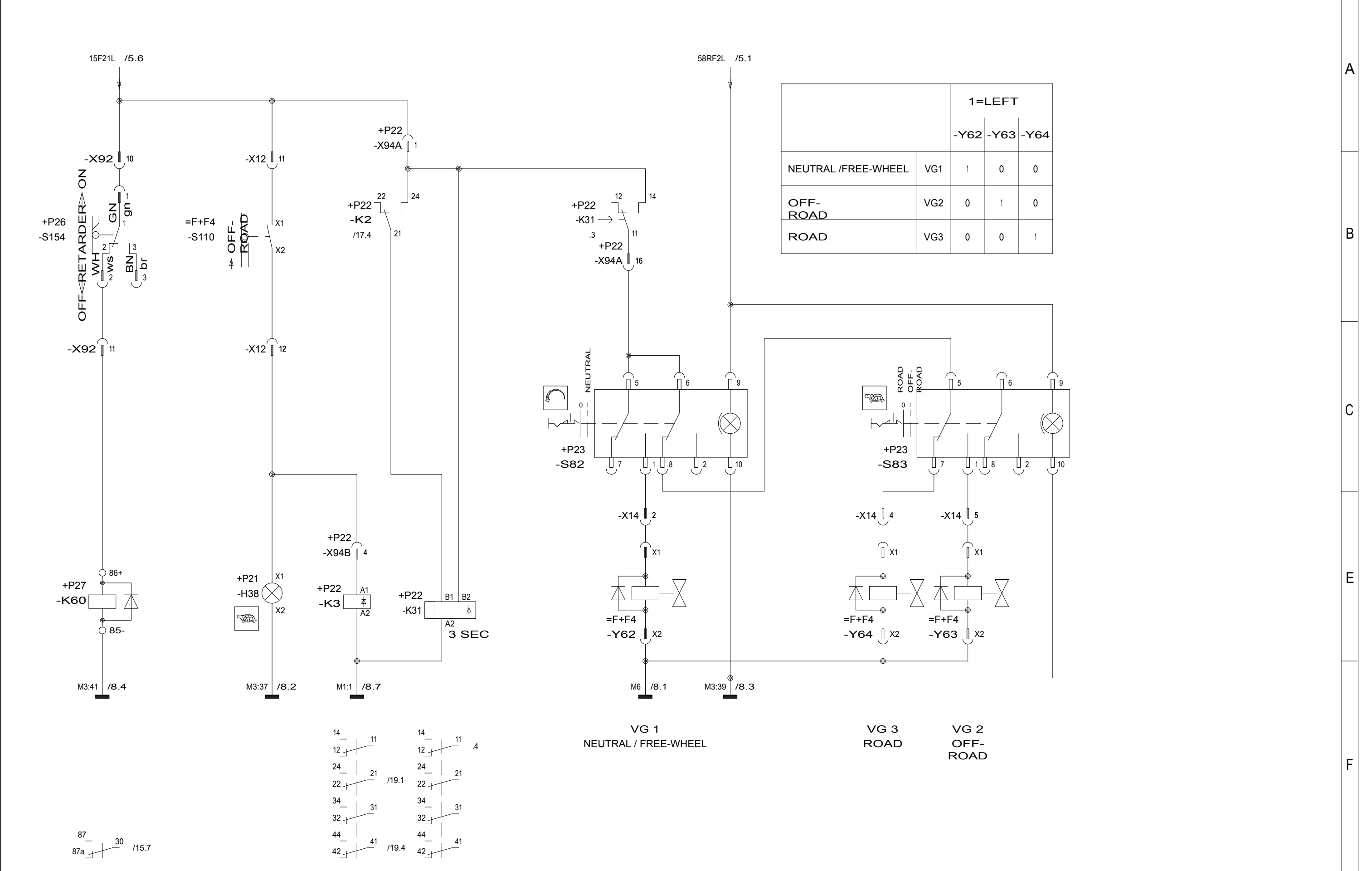
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	MONITORING VEHICLE	Ident-Nr. 982467908	= P2
2				Ausgabe	19.10.07	Iwerof0				+ P20
1										Blatt 14
	Änderung	Datum	Name		Datum	Name	Copyright (c)		3261-920.00.00.001-003	von 78

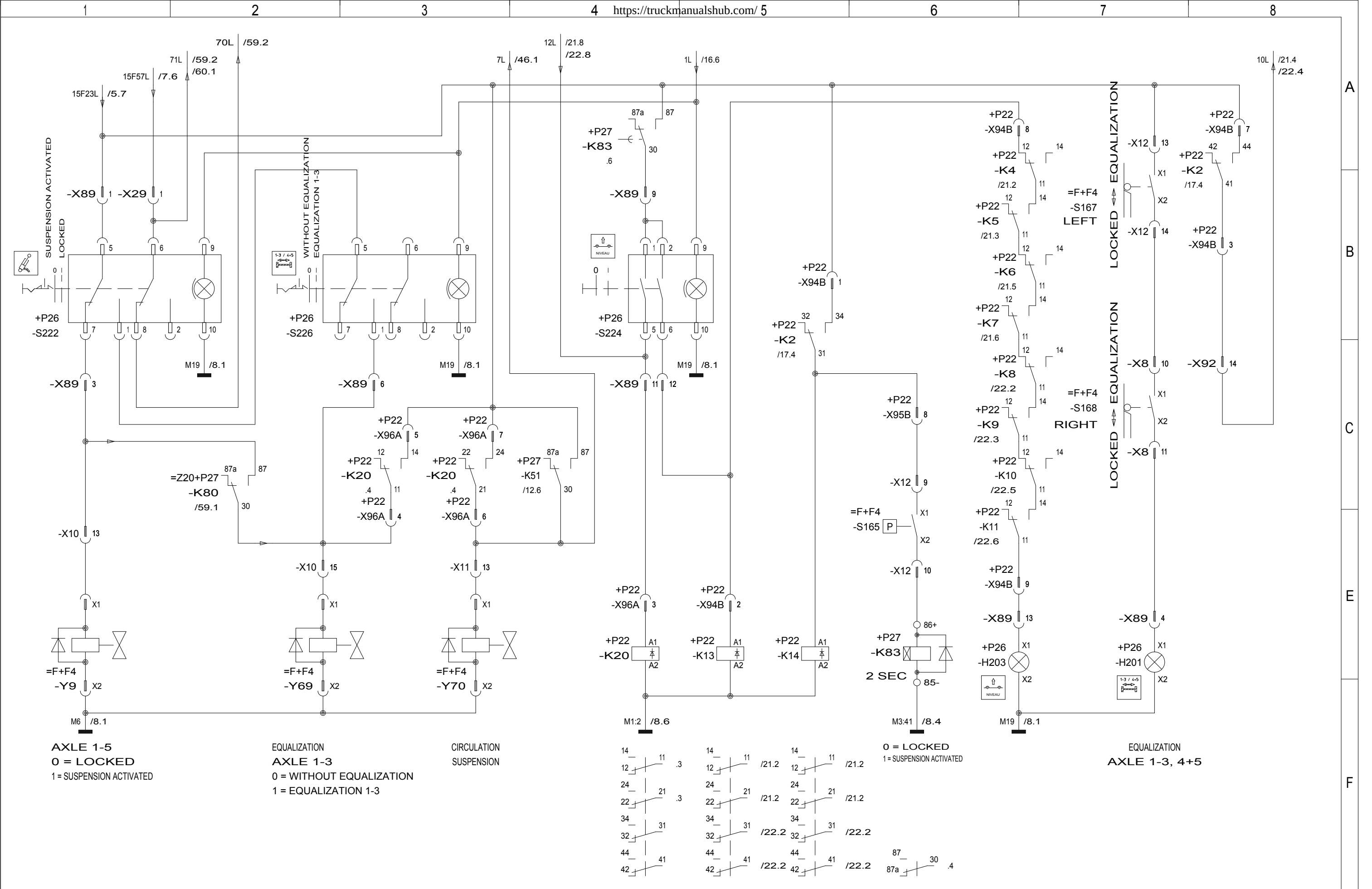


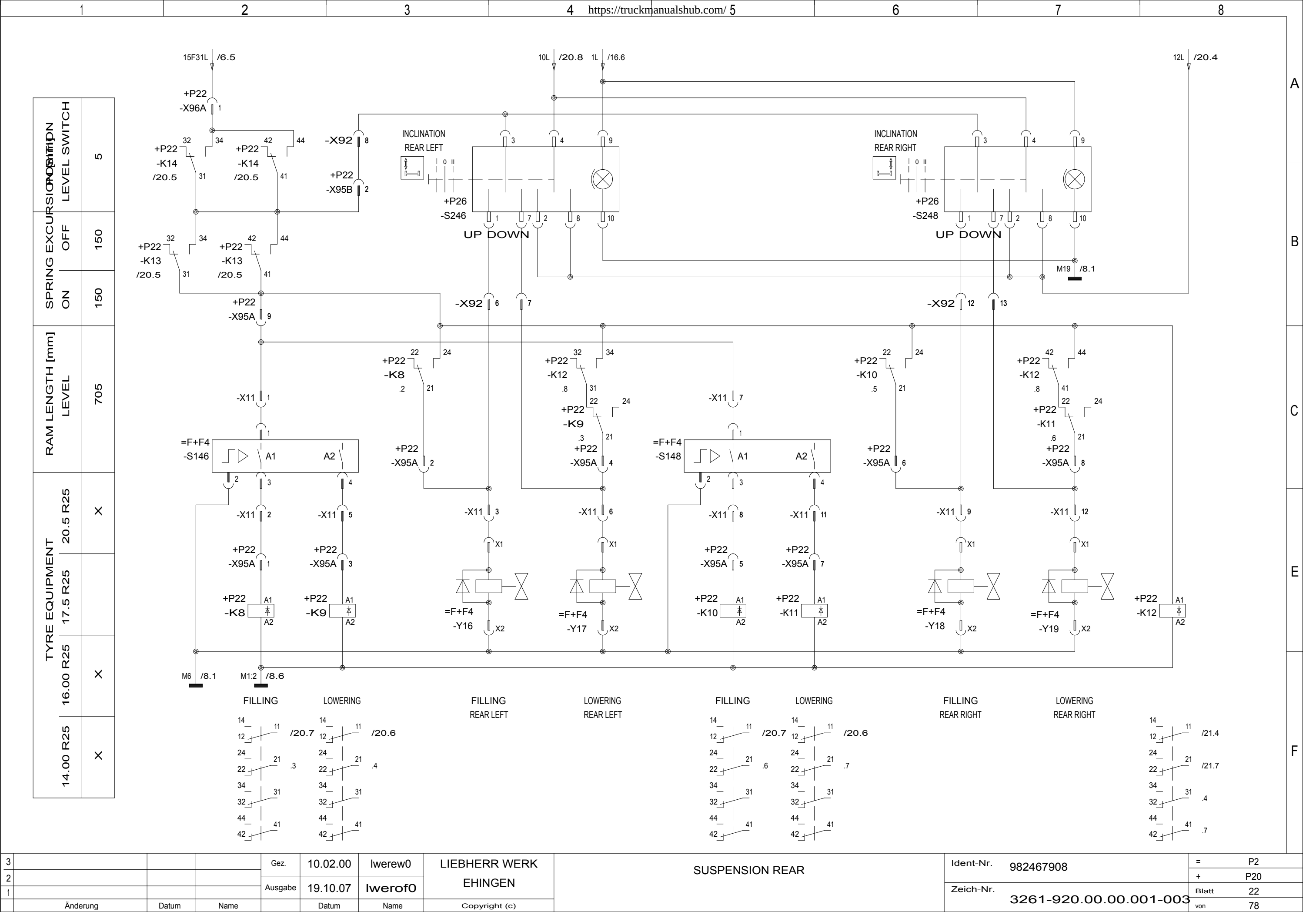




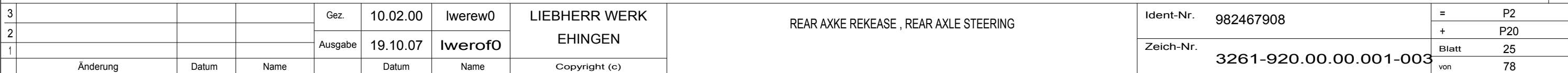
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	TRANSMISSION	Ident-Nr. 982467908	= P2
2				Ausgabe	19.10.07	Iwerof0				+ P20
1										Blatt 17
	Änderung	Datum	Name		Datum	Name	Copyright (c)		3261-920.00.00.001-003	von 78

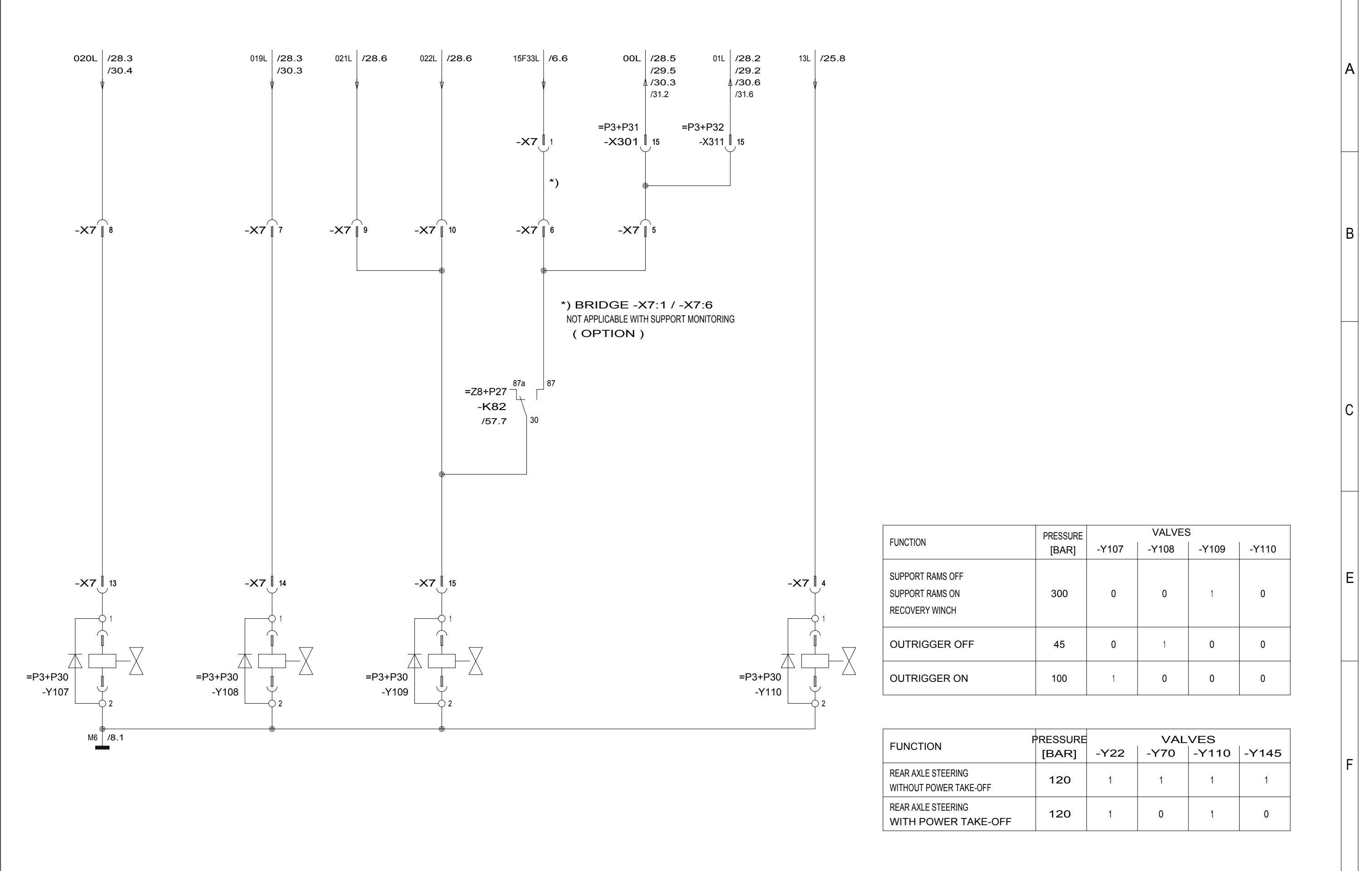






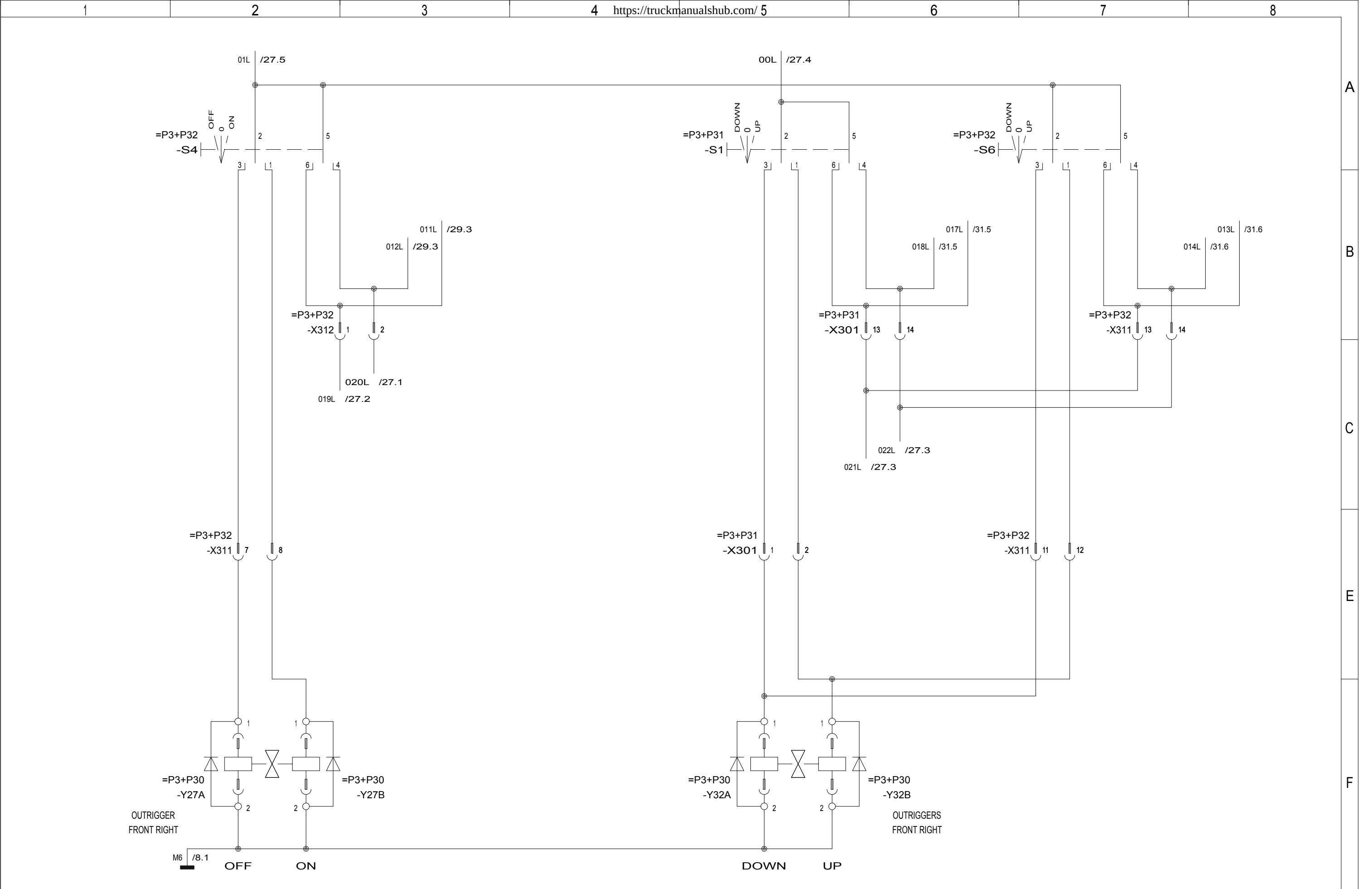
1		2		3		4		https://truckmanualshub.com/ 5		6		7		8																						
SUSPENSION ACTIVATED 1 2 3 4 5 ROAD TRAVEL - WITHOUT EQUALIZATION 1 2 3 4 5 LEVELLING PROCEDURE - EQUALIZATION AXLES 1-3 AND 4+5 - AUTOMATIC LEVELLING POSSIBLE - MANUAL LEVELLING POSSIBLE LOCKED 1 2 3 4 5 VEHICLE ON OUTRIGGERS - MANUAL LEVELLINGNOT POSSIBLE 1 2 3 4 5 DISPLACEMENT WITH EQUIPMENT - EQUALIZATION AXLES 1-3 AND 4+5 - MANUAL LEVELLING POSSIBLE A B C E F																																				
																3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	SUSPENSION FUNCTIONAL DIAGRAMM				Ident-Nr.	982467908	=	P2					
																2				Ausgabe	19.10.07	Iwerof0						Zeich-Nr.	3261-920.00.00.001-003	+	P20					
																1														Blatt	23					
																	Änderung	Datum	Name		Datum	Name	Copyright (c)							von	78					



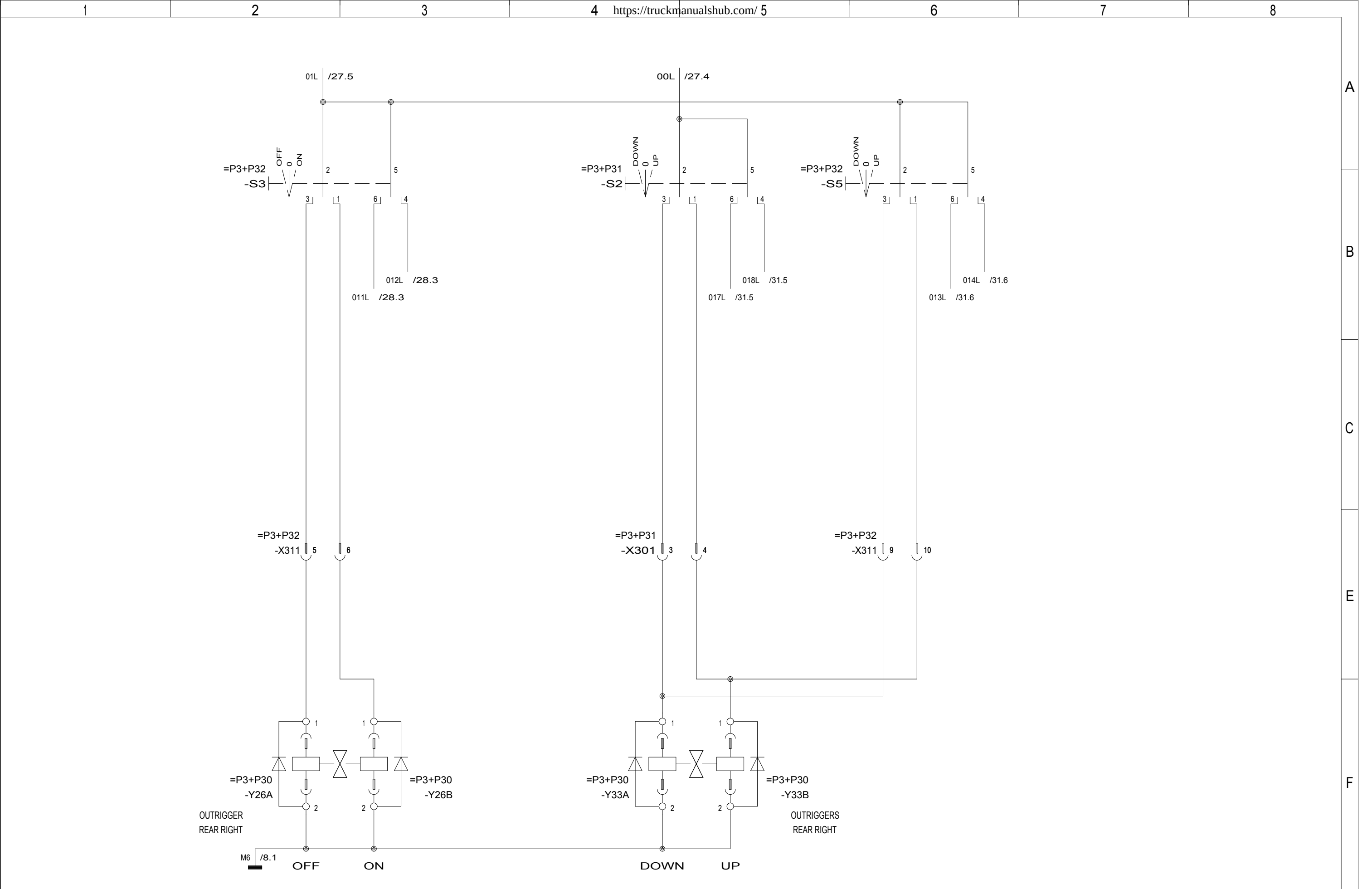


FUNCTION	PRESSURE [BAR]	VALVES			
		-Y107	-Y108	-Y109	-Y110
SUPPORT RAMS OFF SUPPORT RAMS ON RECOVERY WINCH	300	0	0	1	0
OUTRIGGER OFF	45	0	1	0	0
OUTRIGGER ON	100	1	0	0	0

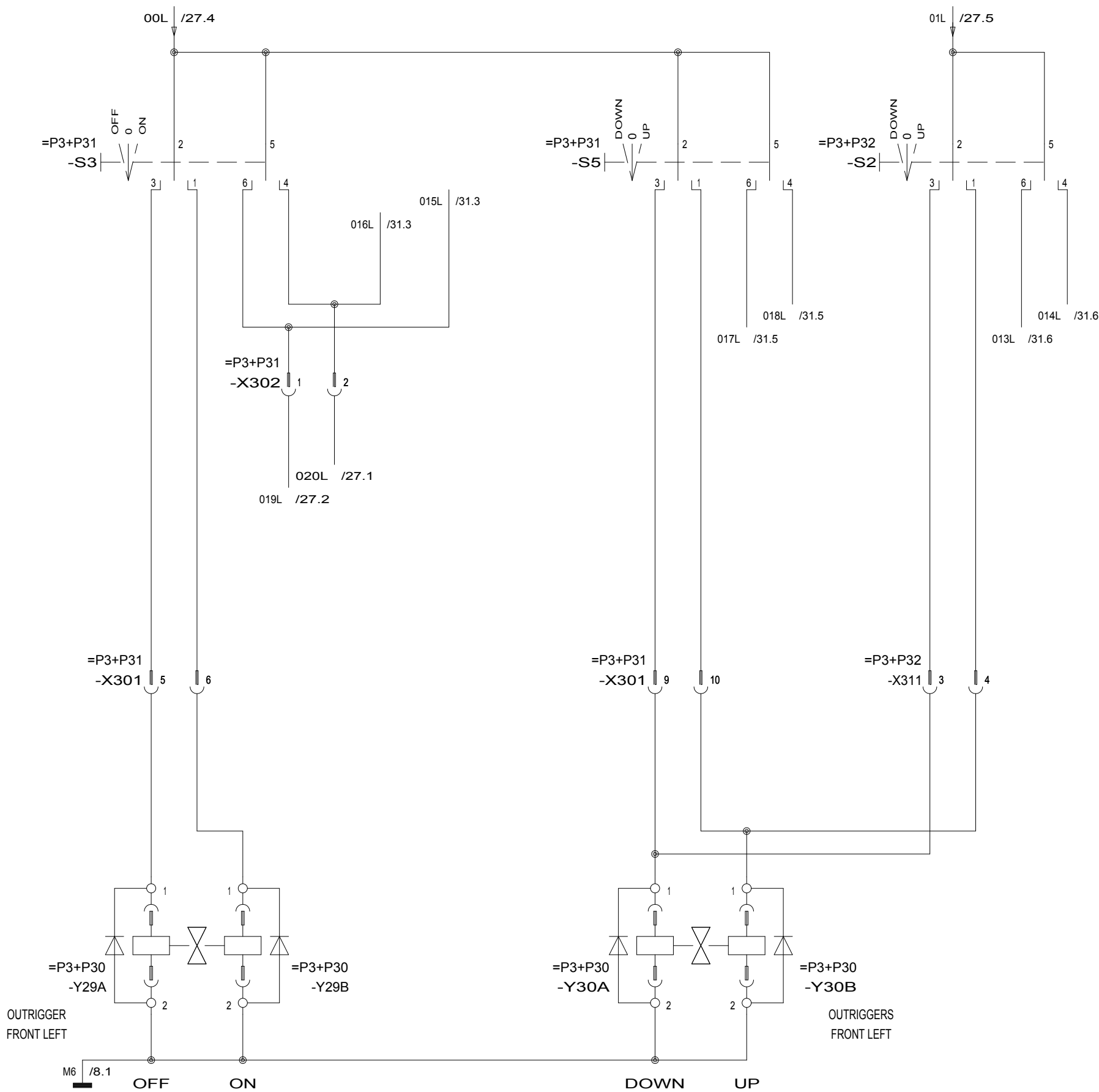
FUNCTION	PRESSURE [BAR]	VALVES			
		-Y22	-Y70	-Y110	-Y145
REAR AXLE STEERING WITHOUT POWER TAKE-OFF	120	1	1	1	1
REAR AXLE STEERING WITH POWER TAKE-OFF	120	1	0	1	0

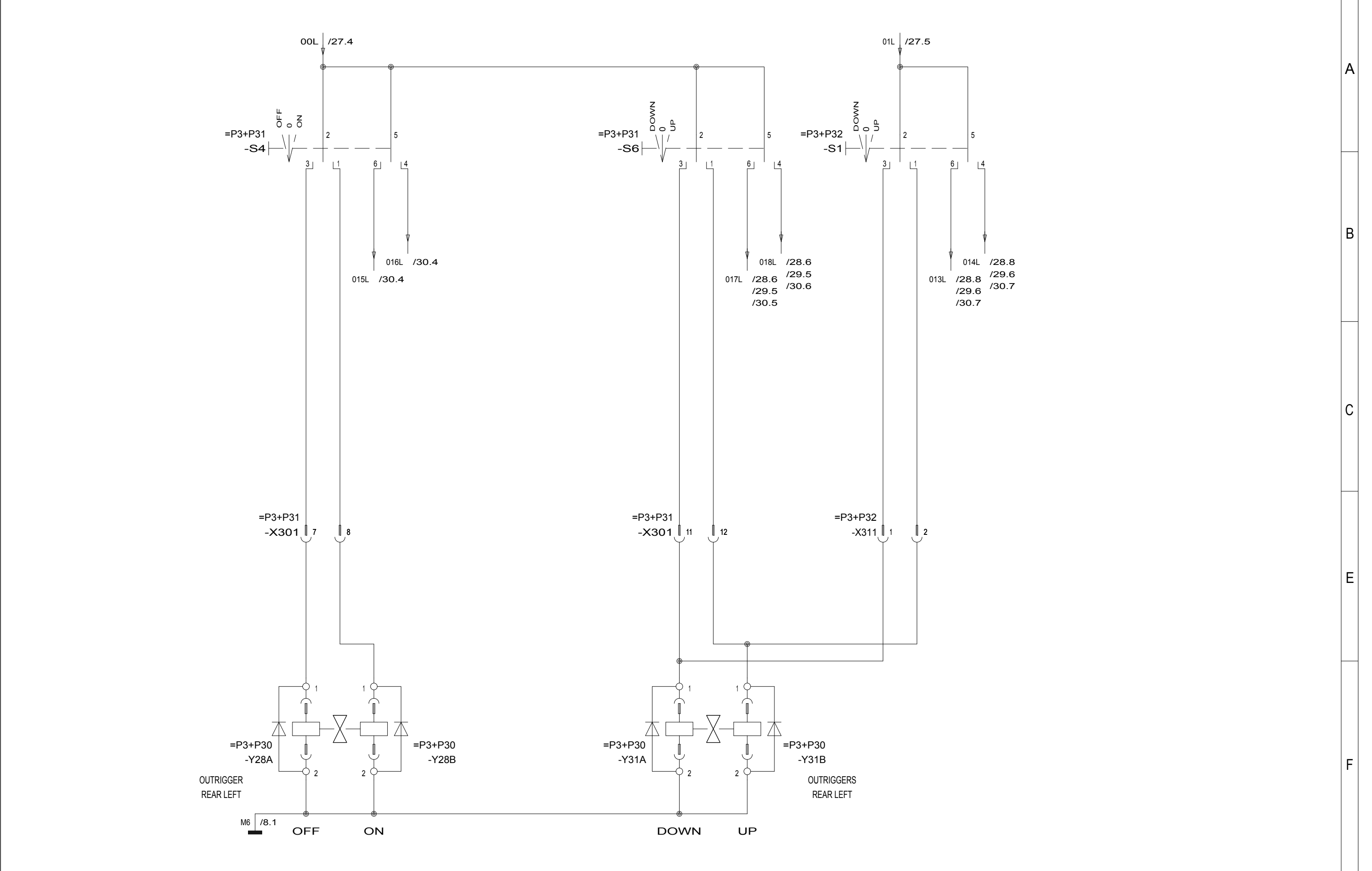


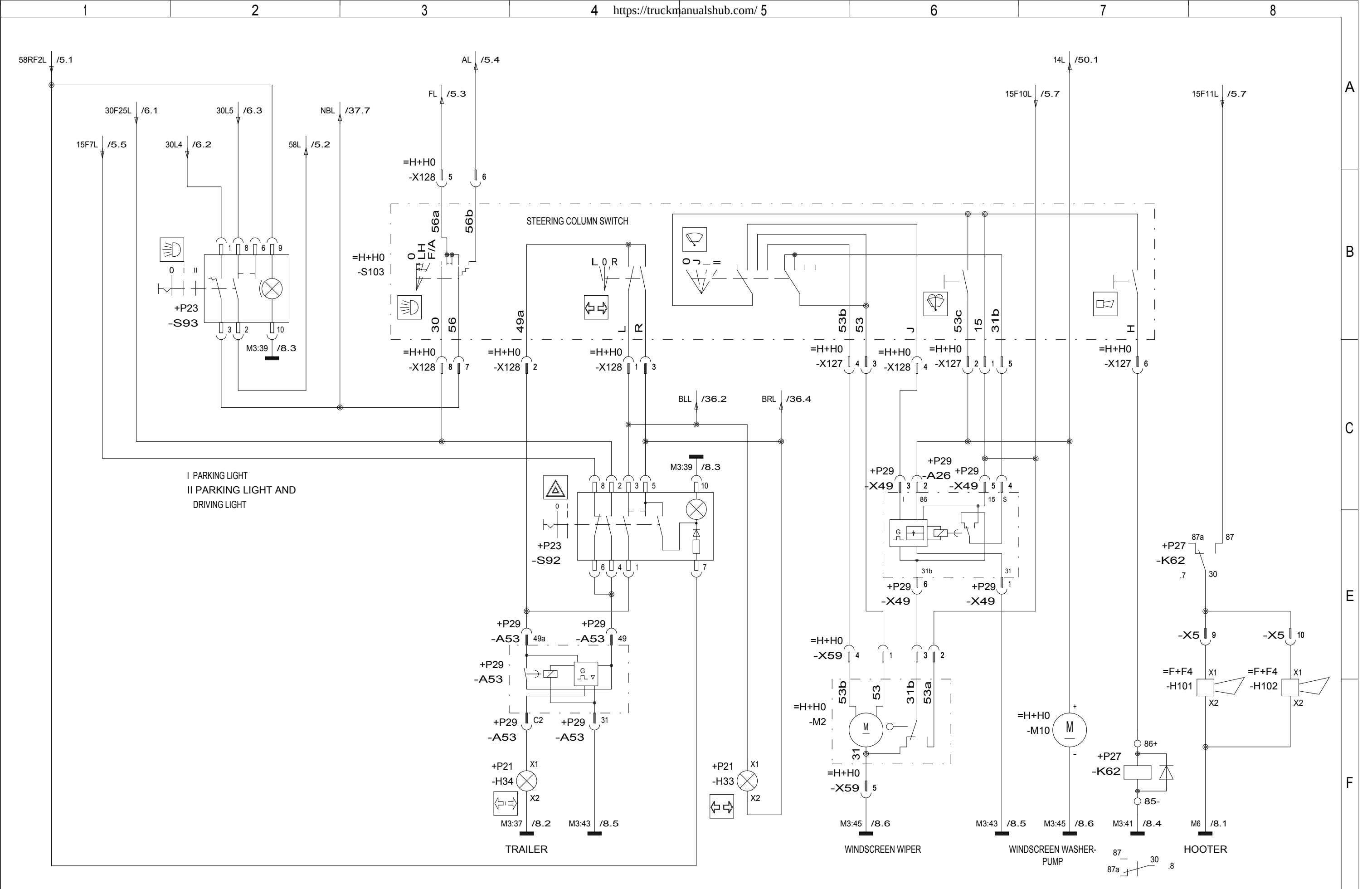
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	OUTRIGGERS FRONT RIGHT		Ident-Nr.	982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0				Zeich-Nr.	3261-920.00.00.001-003	+	P20
1	Änderung	Datum	Name		Datum	Name						Blatt	28
							Copyright (c)					von	78



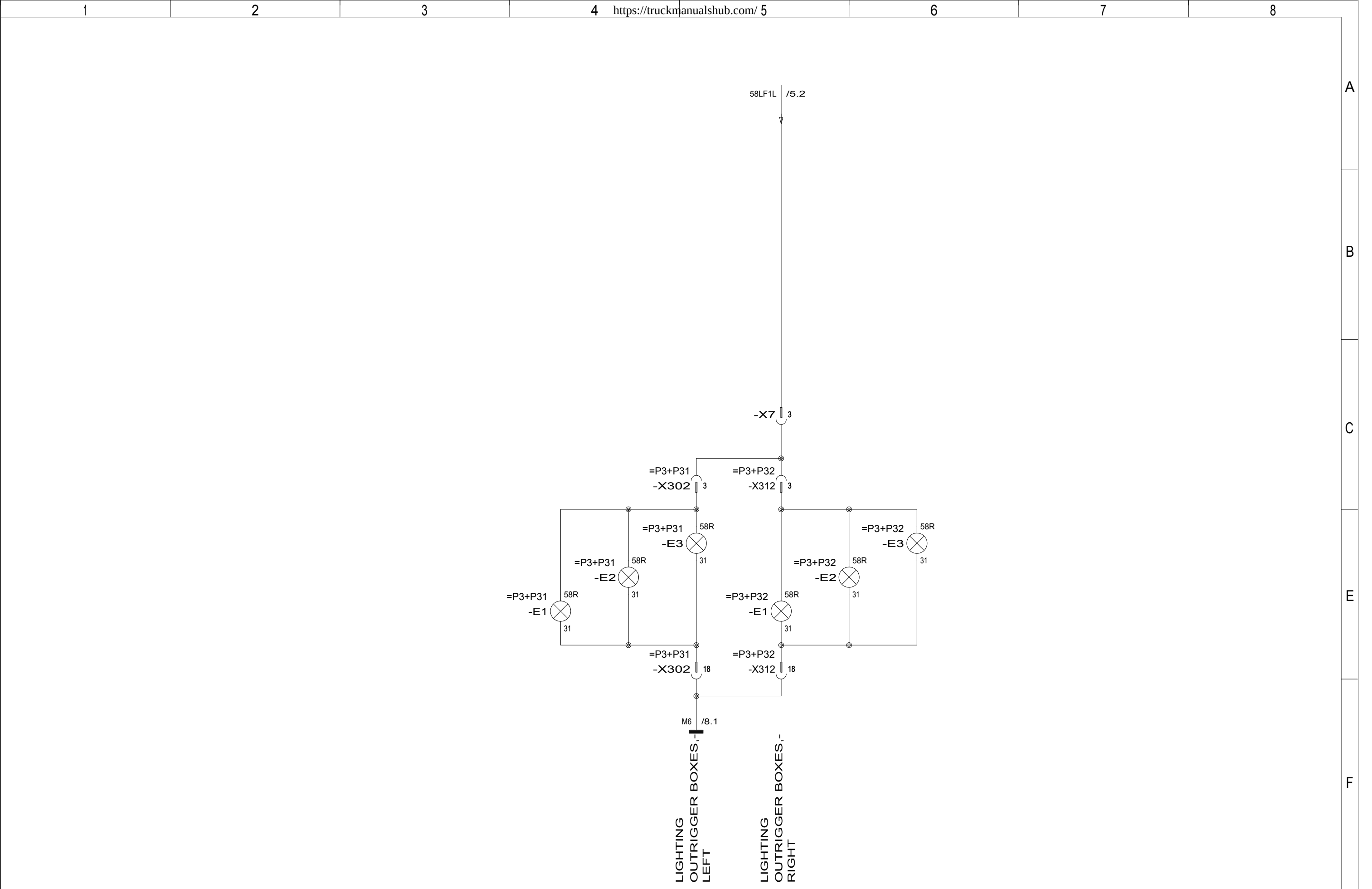
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	OUTRIGGERS REAR RIGHT	Ident-Nr. 982467908	= P2 + P20 Blatt 29 von 78
2				Ausgabe	19.10.07	Iwerof0				
1	Änderung	Datum	Name		Datum	Name				
							Copyright (c)		3261-920.00.00.001-003	

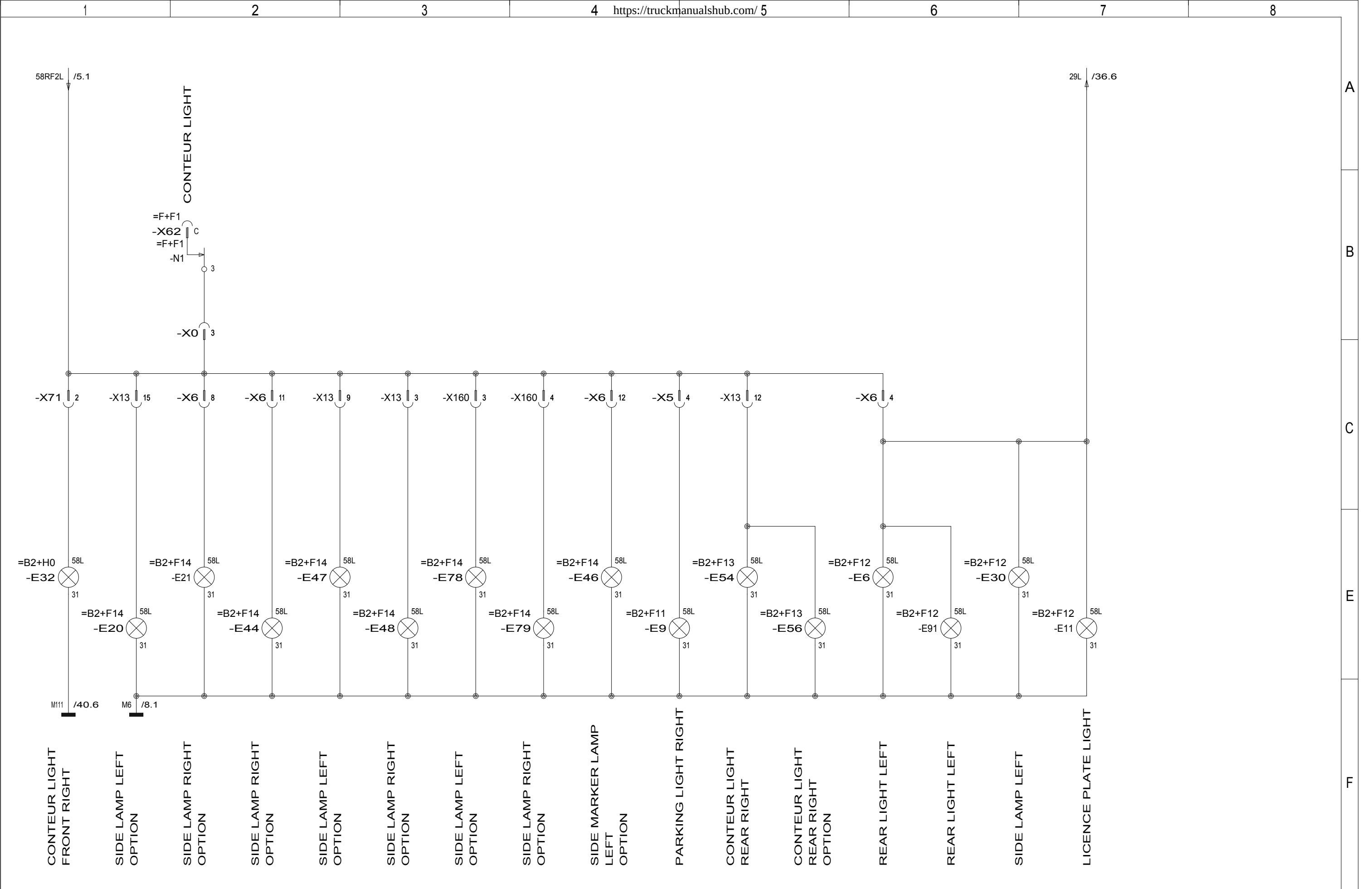




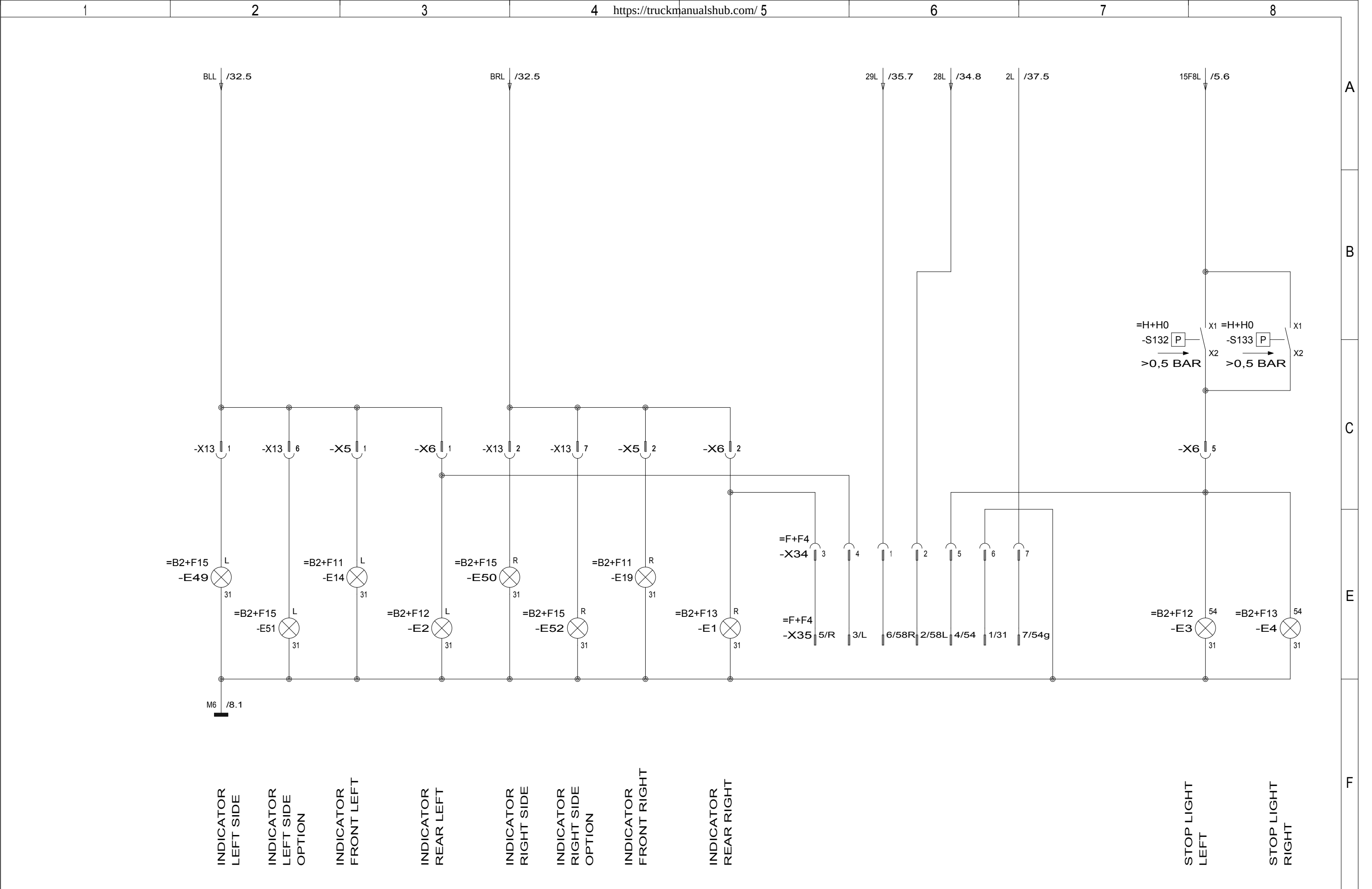


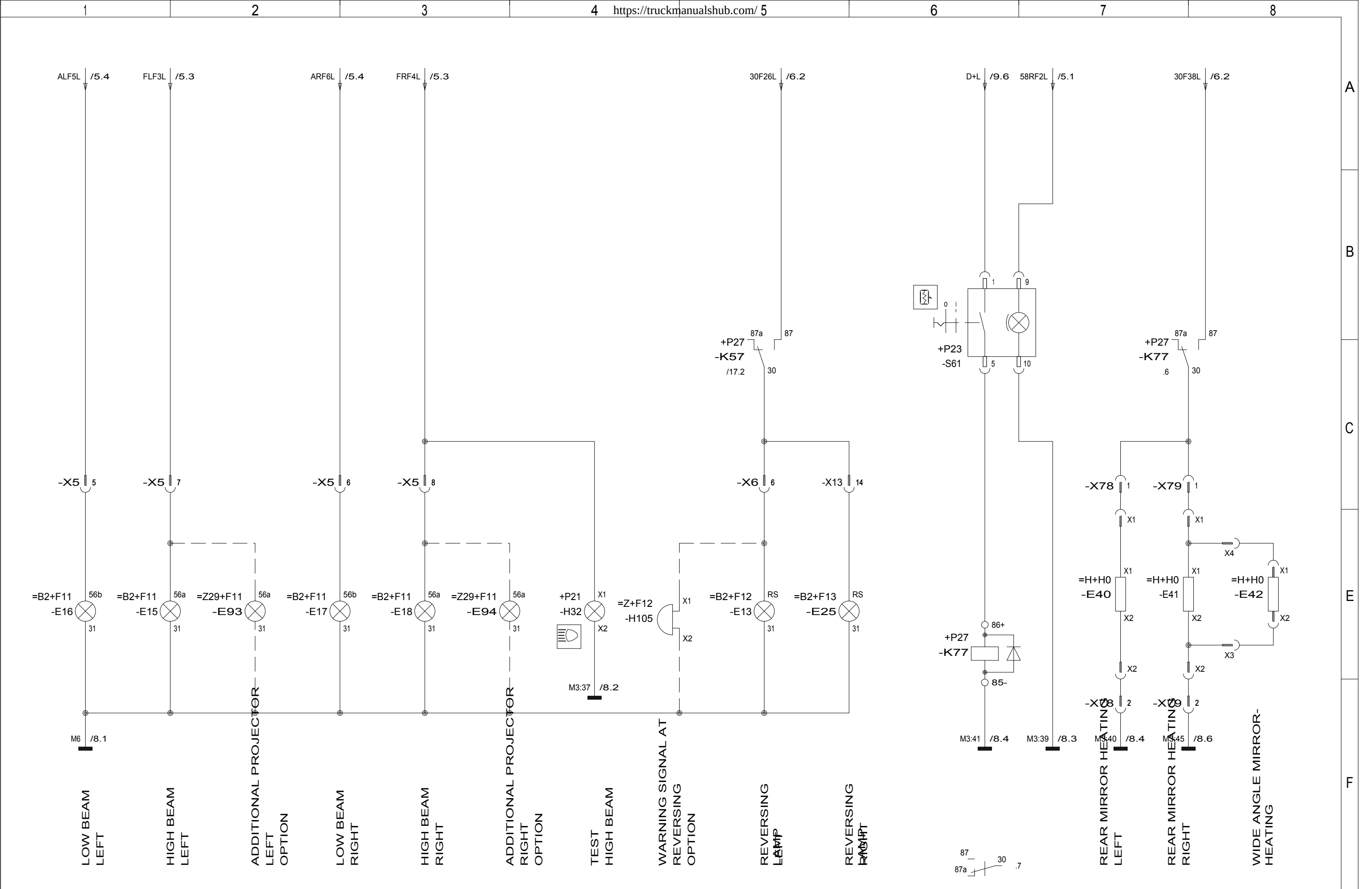
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	INDICATOR RELAY , STEERING COLUMN SWITCH , WINDSCREEN WIPER , HOOTER	Ident-Nr. 982467908 Zeich-Nr. 3261-920.00.00.001-003	= P2 + P20 Blatt 32 von 78
2				Ausgabe	19.10.07	Iwerof0				
1	Änderung	Datum	Name		Datum	Name				



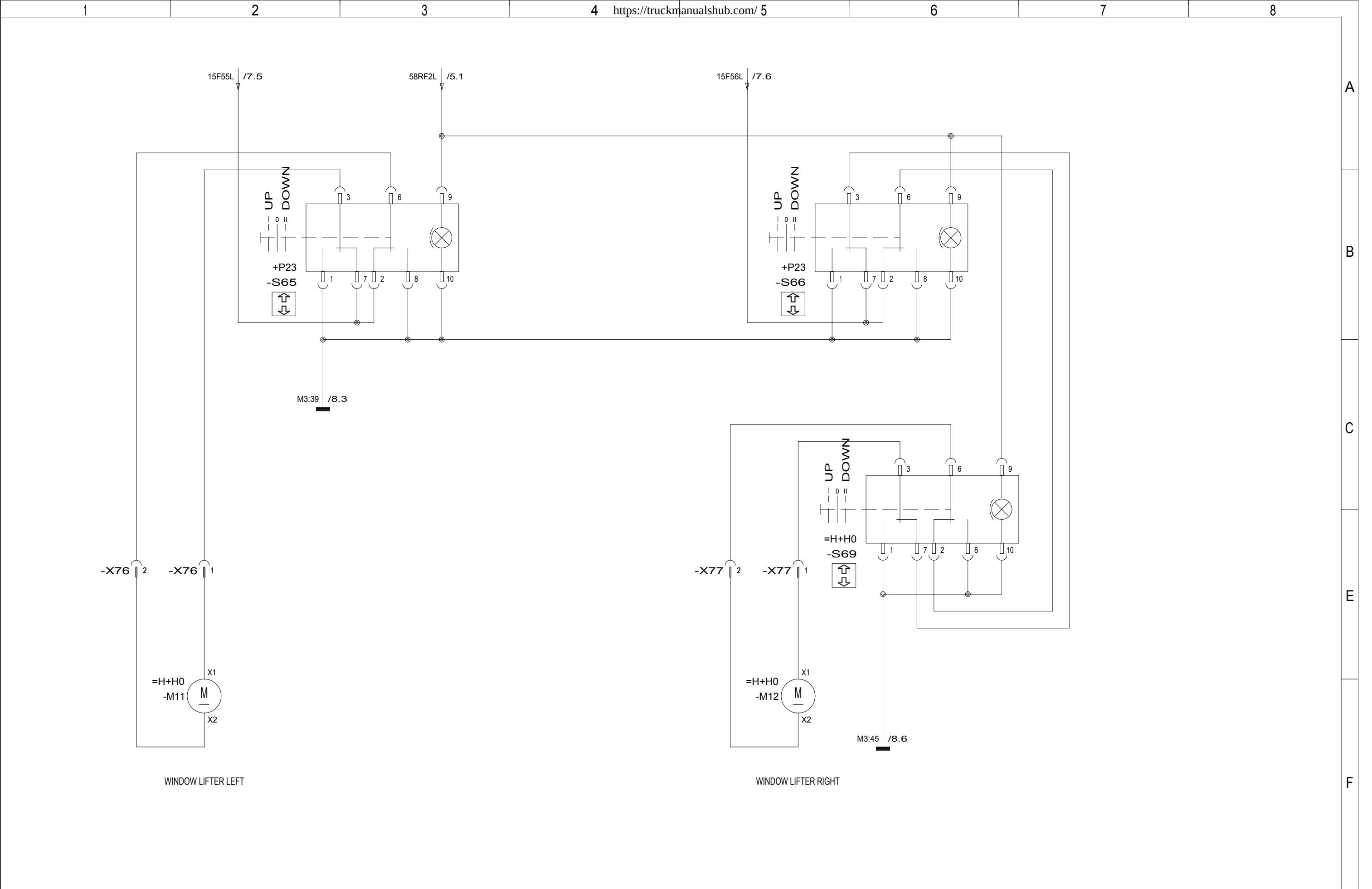


3			Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	LIGHTING	Ident-Nr. 982467908	= P2
2			Ausgabe	19.10.07	Iwerof0				
1									
	Änderung	Datum	Name	Datum	Name	Copyright (c)			

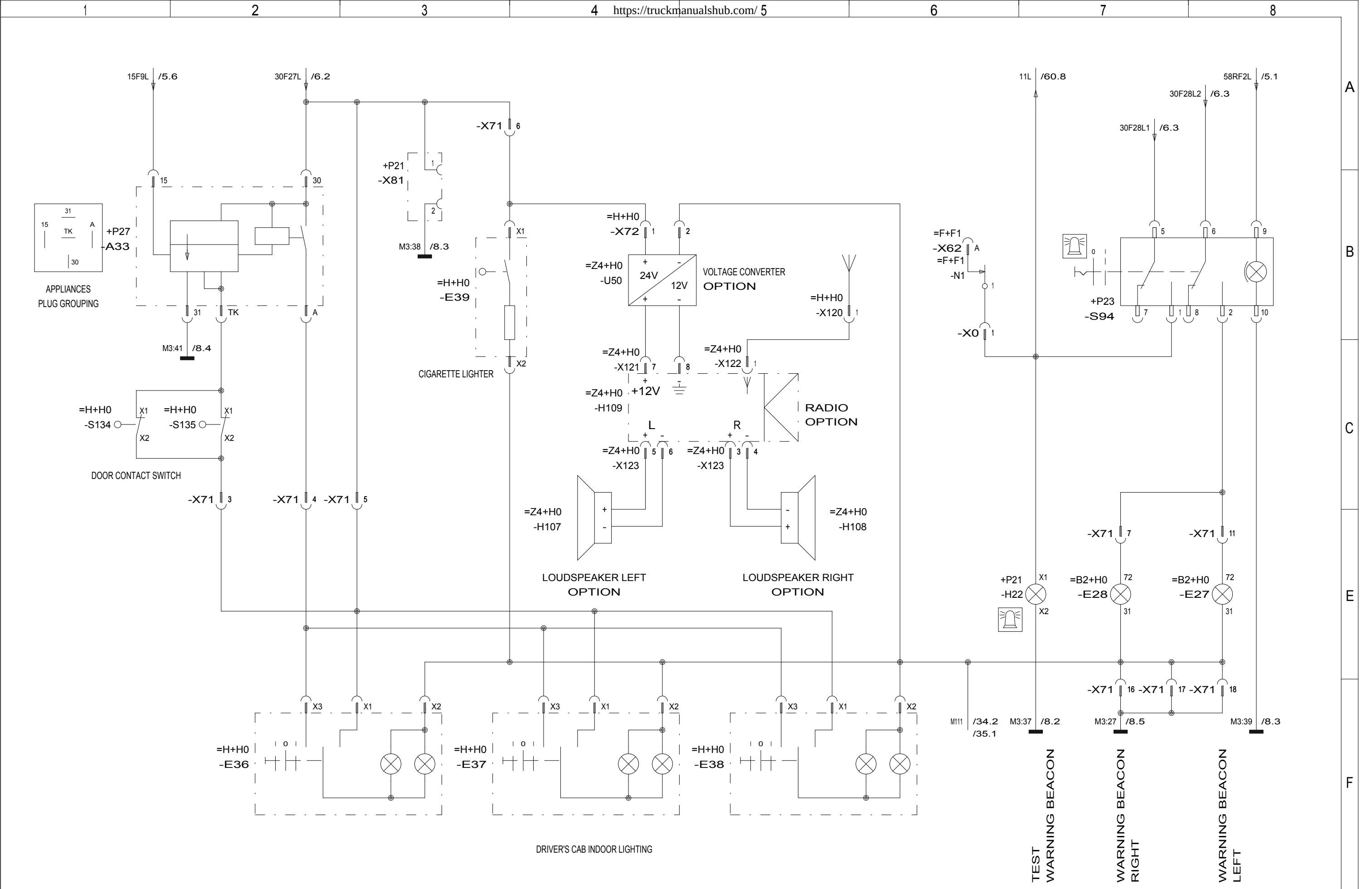




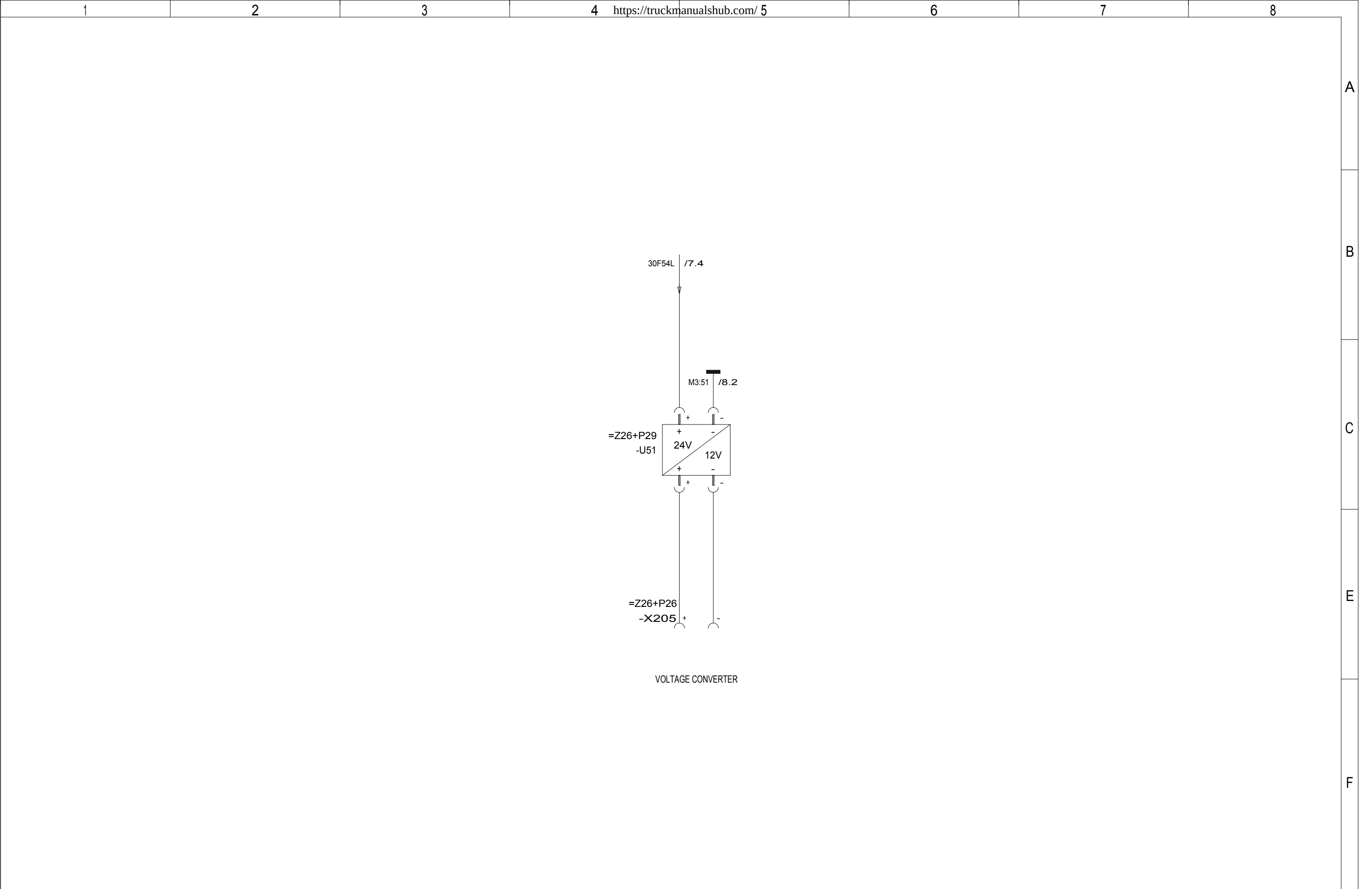
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	LIGHTING , REAR MIRROR HEATING	Ident-Nr. 982467908 Zeich-Nr. 3261-920.00.00.001-003	=	P2
2				Ausgabe	19.10.07	Iwerof0				+	P20
1										Blatt	38
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	78



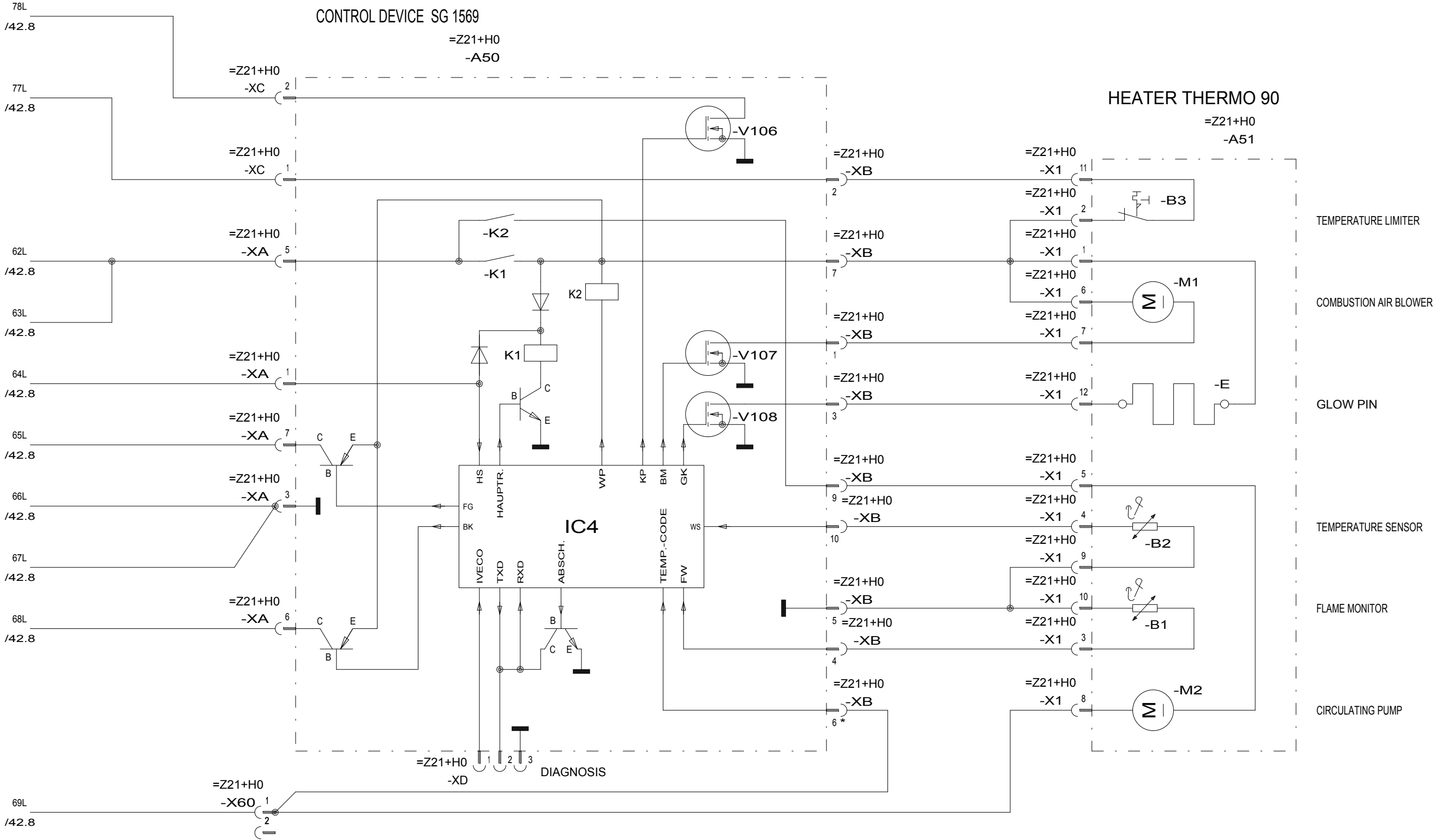
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	WINDOW LIFTER		Ident-Nr.	982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0						+	P20
1										Zeich-Nr.	3261-920.00.00.001-003	Blatt	39
	Änderung	Datum	Name		Datum	Name	Copyright (c)					von	78



3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK	INDOOR LIGHTING , CIGARETTE LIGHTER , RADIO OPTION , WARNING BEACON	Ident-Nr. 982467908 Zeich-Nr. 3261-920.00.00.001-003	= P2 + P20 Blatt 40 von 78
2				Ausgabe	19.10.07	Iwerof0	EHINGEN			
1	Änderung	Datum	Name		Datum	Name	Copyright (c)			

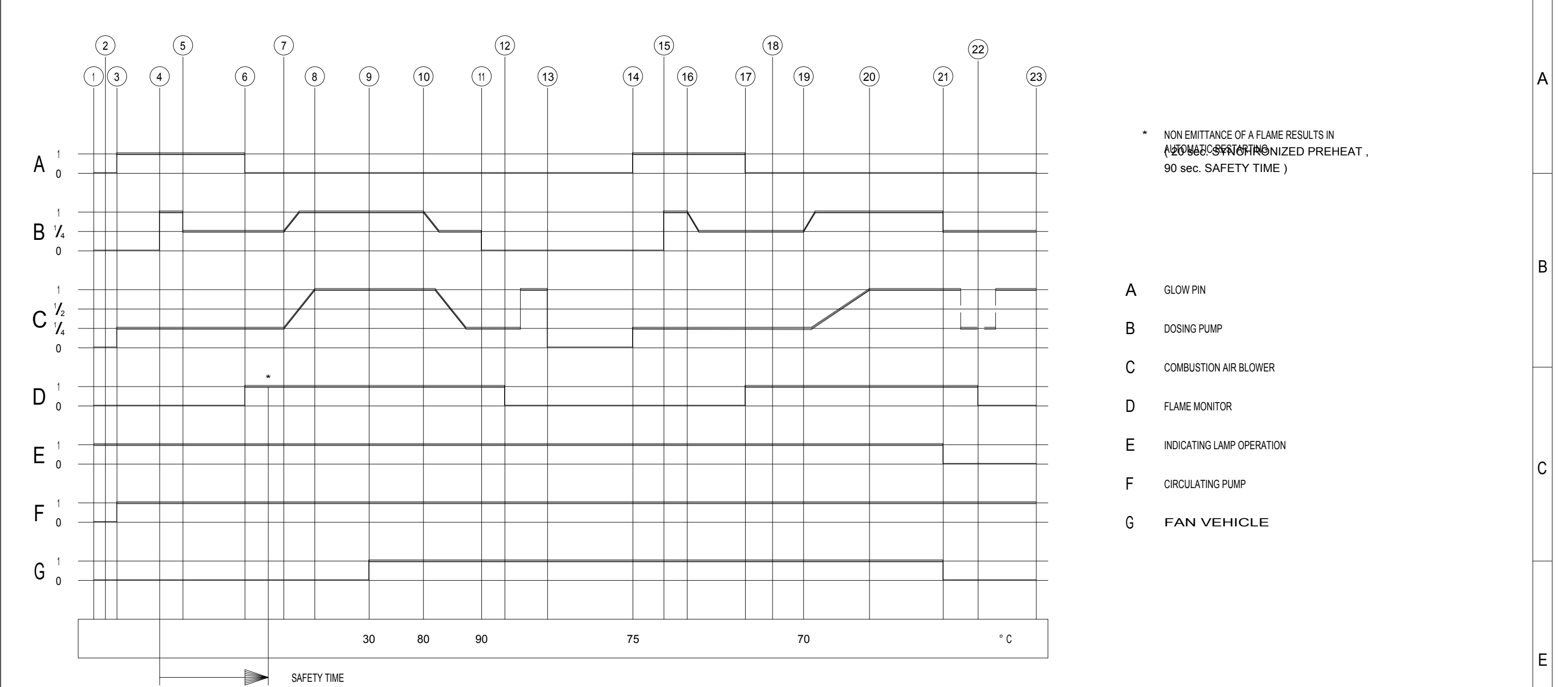


3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	RADIO	Ident-Nr. 982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0				+	P20
1										Blatt	41
	Änderung	Datum	Name		Datum	Name	Copyright (c)	OPTION	Zeich-Nr. 3261-920.00.00.001-003	von	78



*CONNECTION =Z21+H0-XB:6 => MAX. TEMPERATURE
+24V => 65°C
FREE => 72°C

0V => 80°C



* NON EMITTANCE OF A FLAME RESULTS IN
AUTOMATIC RESTARTING
(20 sec. SYNCHRONIZED PREHEAT ,
90 sec. SAFETY TIME)

- A
- GLOW PIN
- B
- DOSING PUMP
- C
- COMBUSTION AIR BLOWER
- D
- FLAME MONITOR
- E
- INDICATING LAMP OPERATION
- F
- CIRCULATING PUMP
- G
- FAN VEHICLE

DIAGNOSIS AT FAILURE

AT FAILURE => INDICATING LAMP FLASHING :

- 1x
- INEFFECTIVE START
- 2x
- FLAME BLOW-OFF DURING CUTTING OPERATION
- 3x
- UNDERVOLTAGE
- 4x
- FLAME MONITOR PERMANENTLY HOT
- 5x
- FLAME MONITOR FAILURE
- 6x
- TEMPERATURE SENSOR FAILURE
- 7x
- DOSING PUMP FAILURE
- 8x
- COMBUSTION AIR BLOWER FAILURE
- 9x
- GLOW PIN FAILURE

FUNCTIONAL DIAGRAMM FOR THERMO 90

- ①

SWITCH ON

②

POLLING OF COMPONENTS

③

PREHEAT 40 sec. (SYNCHRONIZED)

④

DOSING PUMP ADVANCE 5 - 7 sec. (1)

⑤

DOSING PUMP / PARTIAL LOAD OPERATION (1/4)

⑥

TRANSFER OF FLAME CONTROL DEVICE

⑦

STABILIZING TIME

⑧

FULL LOAD RANGE

⑨

FAN VEHICLE >> ON <<

⑩

RANGE OF ADJUSTMENT

⑪

INTERVAL PEROID ADJUSTMENT

⑫

FLAME MONITOR >> COLD << (0)

⑬

AFTER-RUNNING TERMINATED

⑭

PREHEAT 15 - 20 sec. (SYNCHRONIZED)

⑮

DOSING PUMP ADVANCE 5 - 7 sec. (1)

⑯

DOSING PUMP / PARTIAL LOAD OPERATION (1/4)

⑰

TRANSFER OF FLAME CONTROL DEVICE

⑱

STABILIZING TIME

⑲

COOLANT TEMPERATURE DROPPED

⑳

FULL LOAD RANGE

㉑

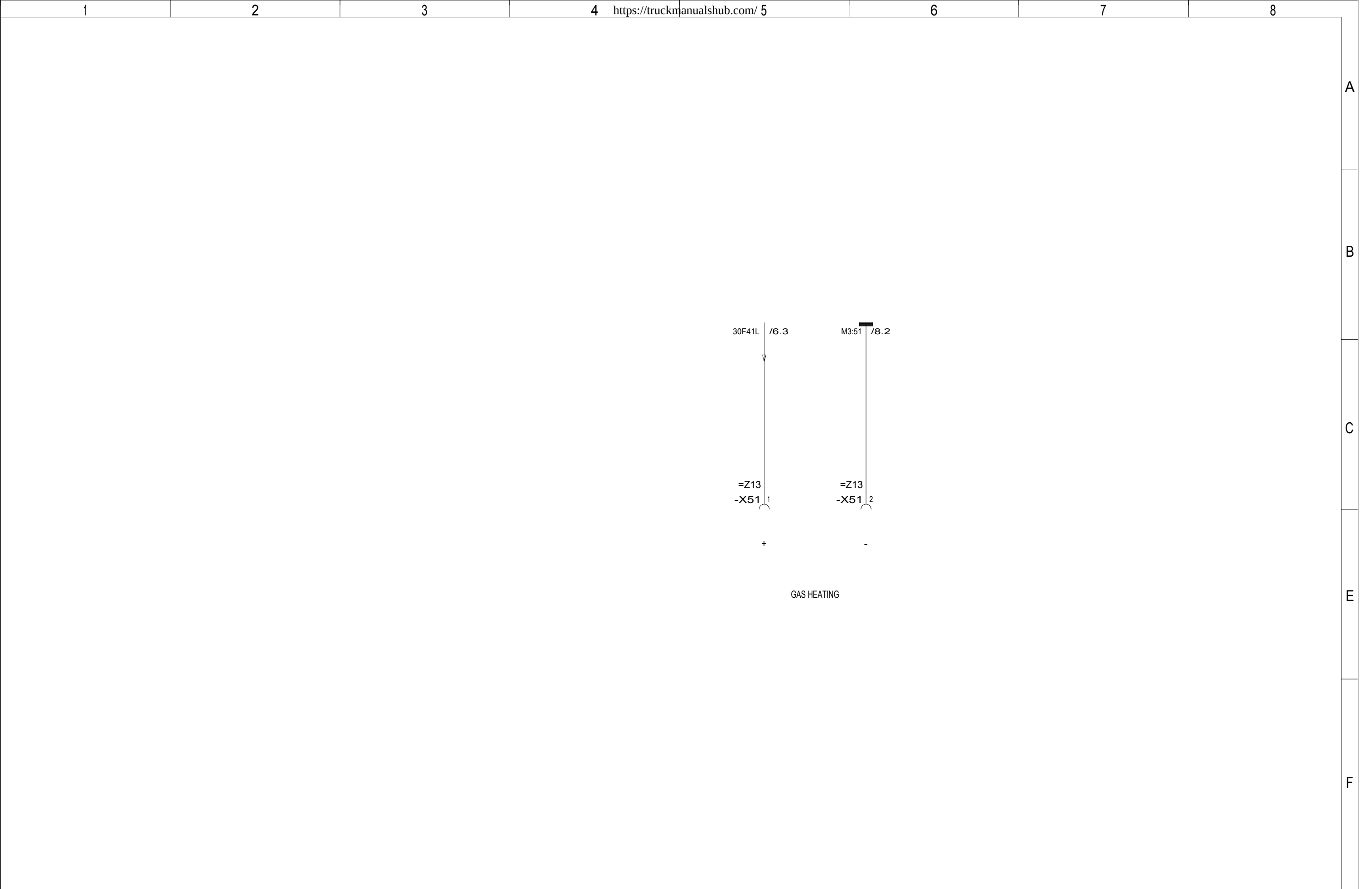
SHUT OFF (AFTER-RUNNING)

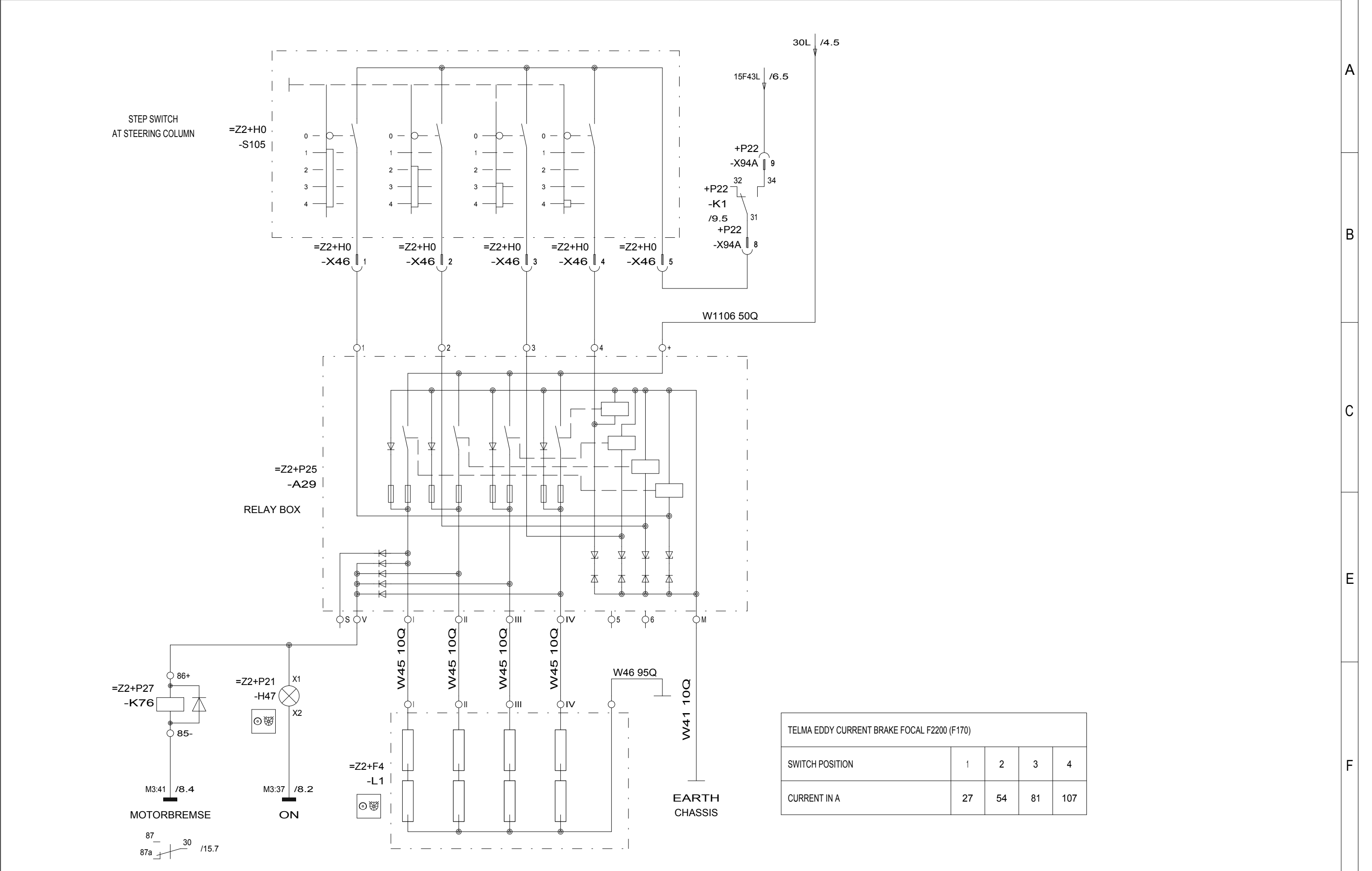
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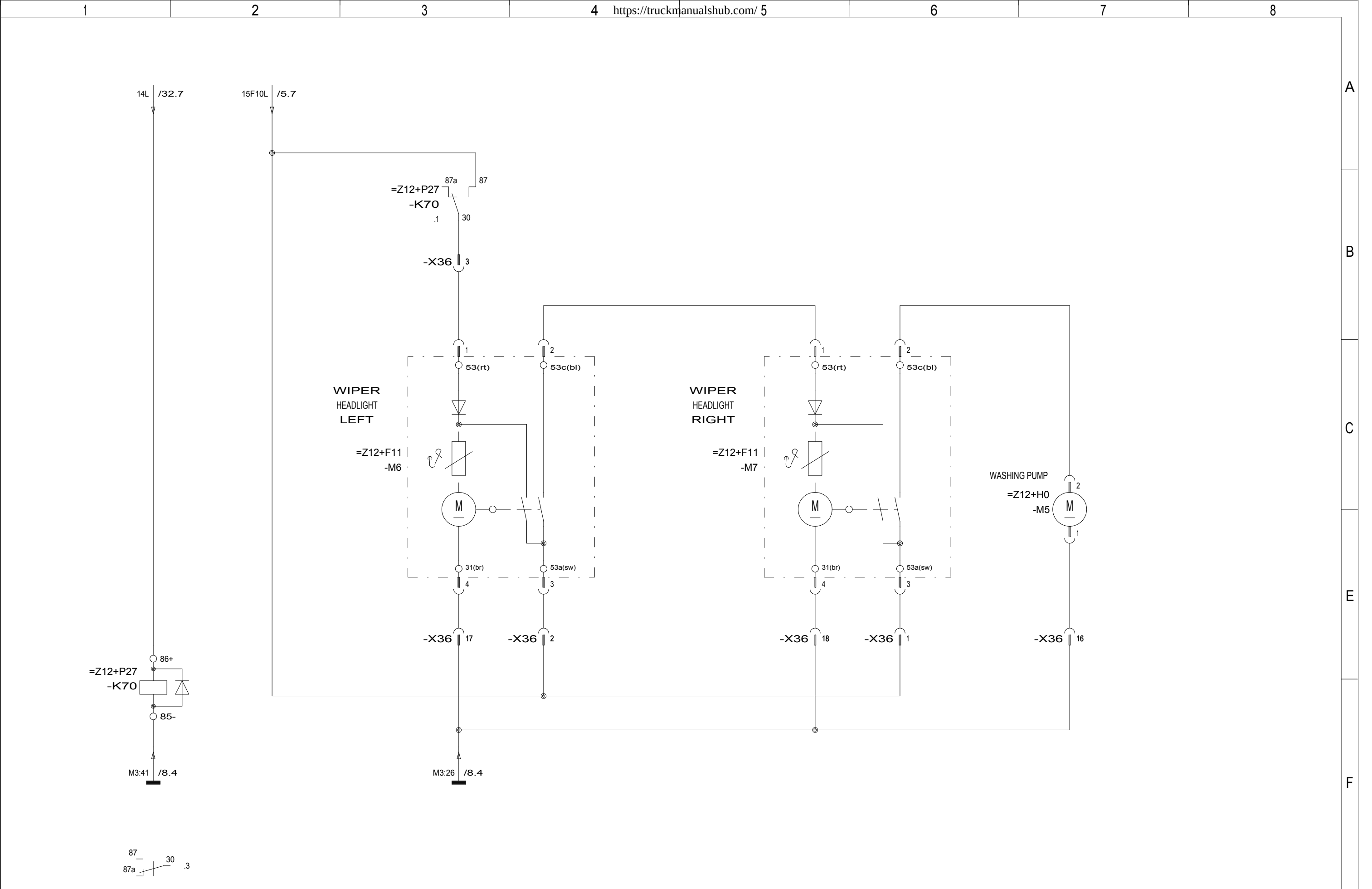
FLAME MONITOR >> COLD << (0)

㉓

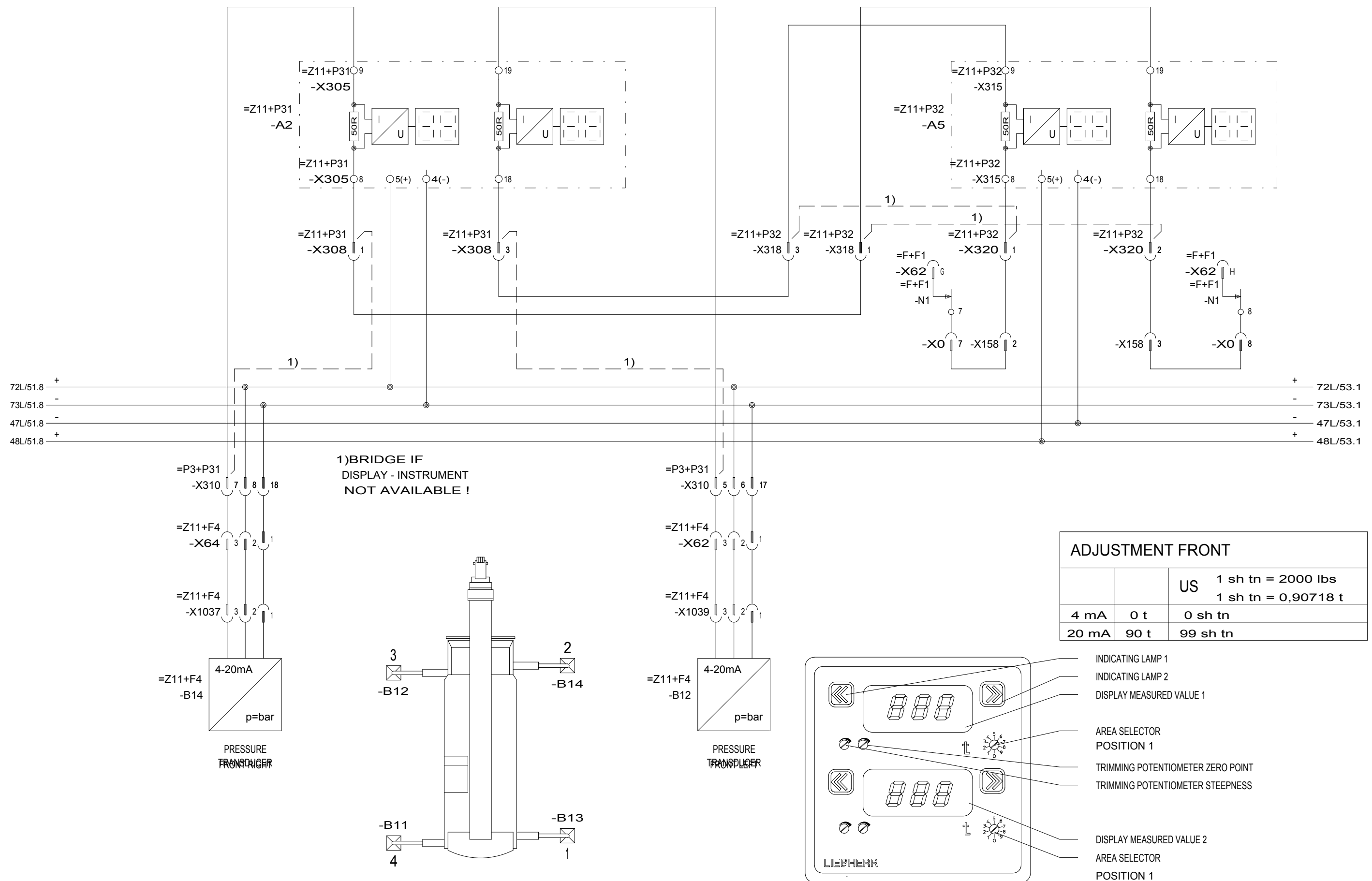
AFTER-RUNNING TERMINATED







3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	HEADLIGHT WASHER	Ident-Nr. 982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0				+	P20
1											
	Änderung	Datum	Name		Datum	Name	Copyright (c)	OPTION	Zeich-Nr. 3261-920.00.00.001-003	Blatt	50
										von	78



ADJUSTMENT FRONT		
		US 1 sh tn = 2000 lbs 1 sh tn = 0,90718 t
4 mA	0 t	0 sh tn
20 mA	90 t	99 sh tn

INDICATING LAMP 1

INDICATING LAMP 2

DISPLAY MEASURED VALUE 1

AREA SELECTOR

POSITION 1

TRIMMING POTENTIOMETER ZERO POINT

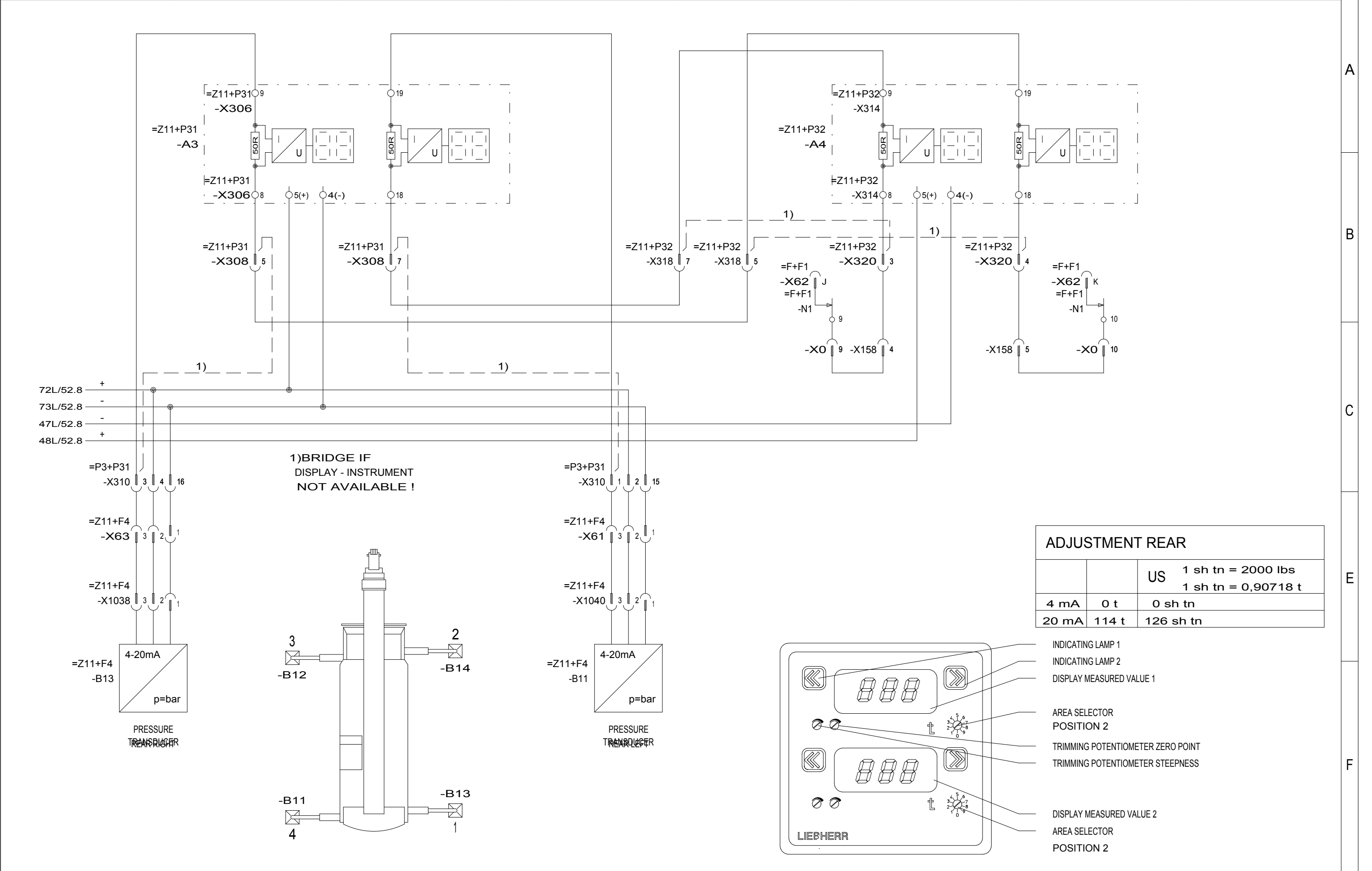
TRIMMING POTENTIOMETER STEEPNESS

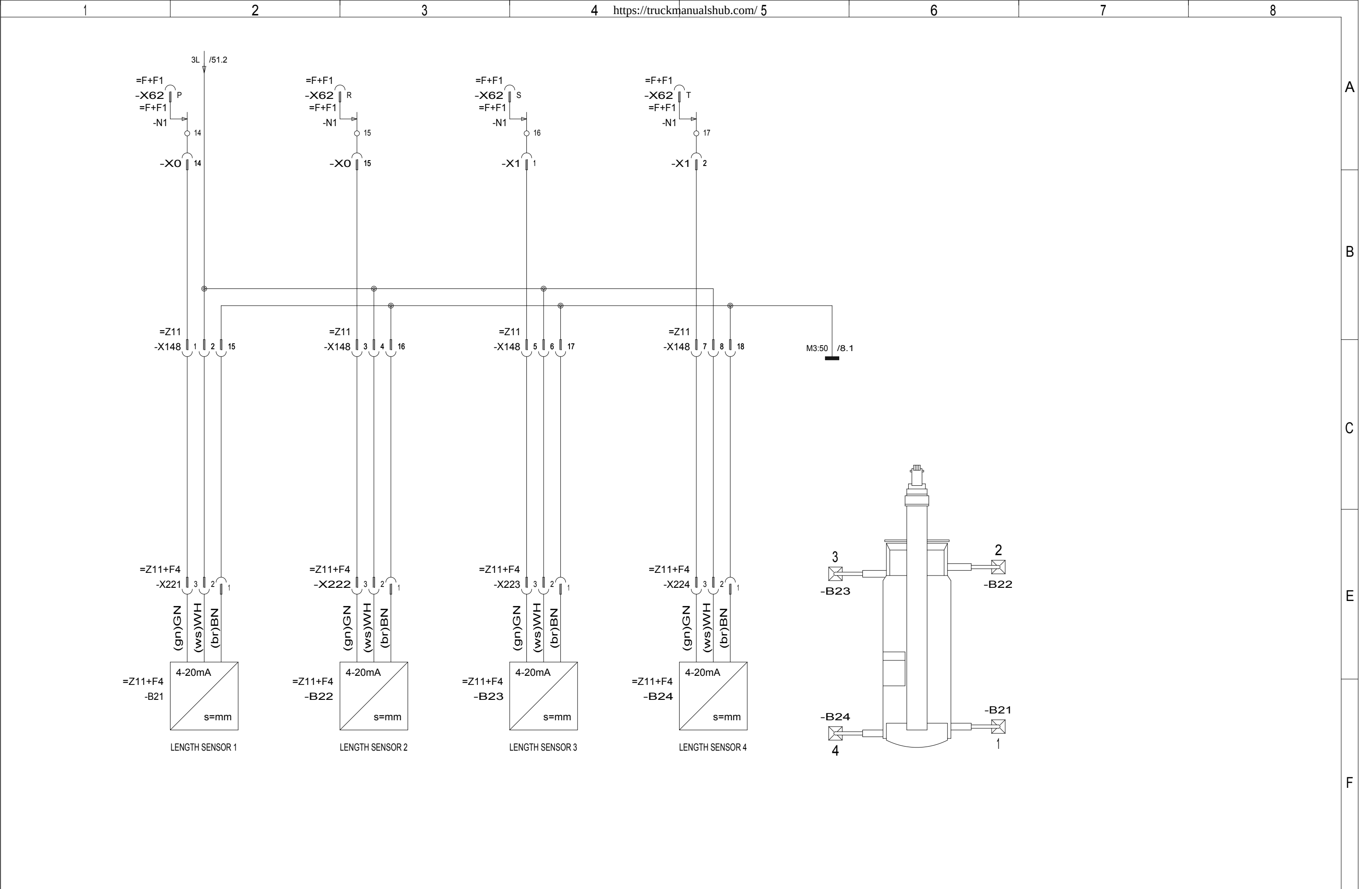
DISPLAY MEASURED VALUE 2

AREA SELECTOR

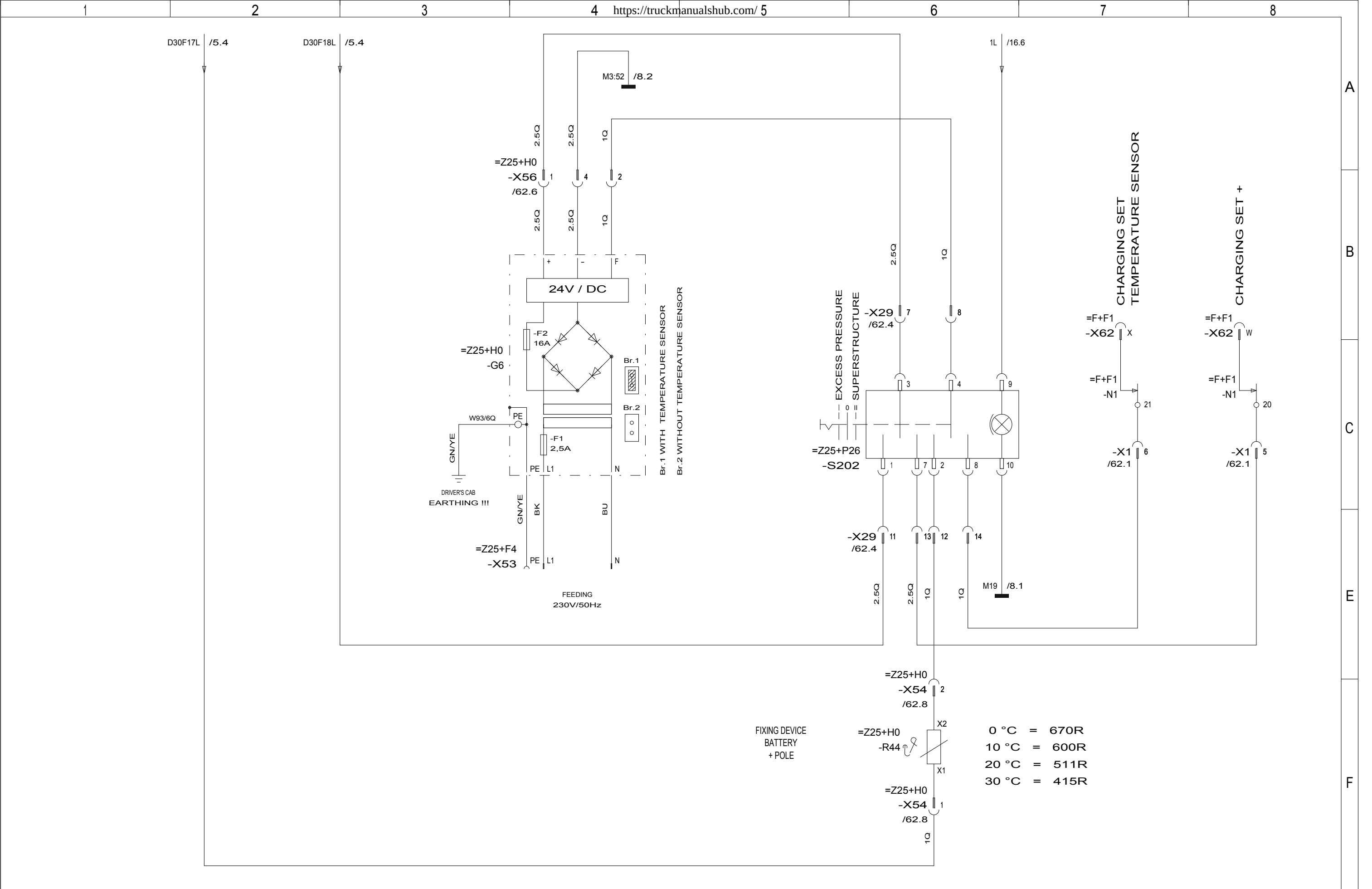
POSITION 1

3				Gez.	10.02.00	lwerew0	LIEBHERR WERK EHINGEN	SUPPORTING PRESSURE INDICATOR FRONT OPTION	Ident-Nr.	982467908	=	P2
2				Ausgabe	19.10.07	lwerof0			Zeich-Nr.	3261-920.00.00.001-003	+	P20
1											Blatt	52
	Änderung	Datum	Name		Datum	Name	Copyright (c)		von	78		





3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	OUTRIGGER - LENGTH SENSOR OPTION	Ident-Nr. 982467908 Zeich-Nr. 3261-920.00.00.001-003	=	P2
2				Ausgabe	19.10.07	Iwerof0				+	P20
1										Blatt	54
	Änderung	Datum	Name		Datum	Name	Copyright (c)			von	78



3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK	CHARGING SET OPTION	Ident-Nr.	982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0	EHINGEN		Zeich-Nr.	3261-920.00.00.001-003	+	P20
1											Blatt	55
	Änderung	Datum	Name		Datum	Name	Copyright (c)				von	78

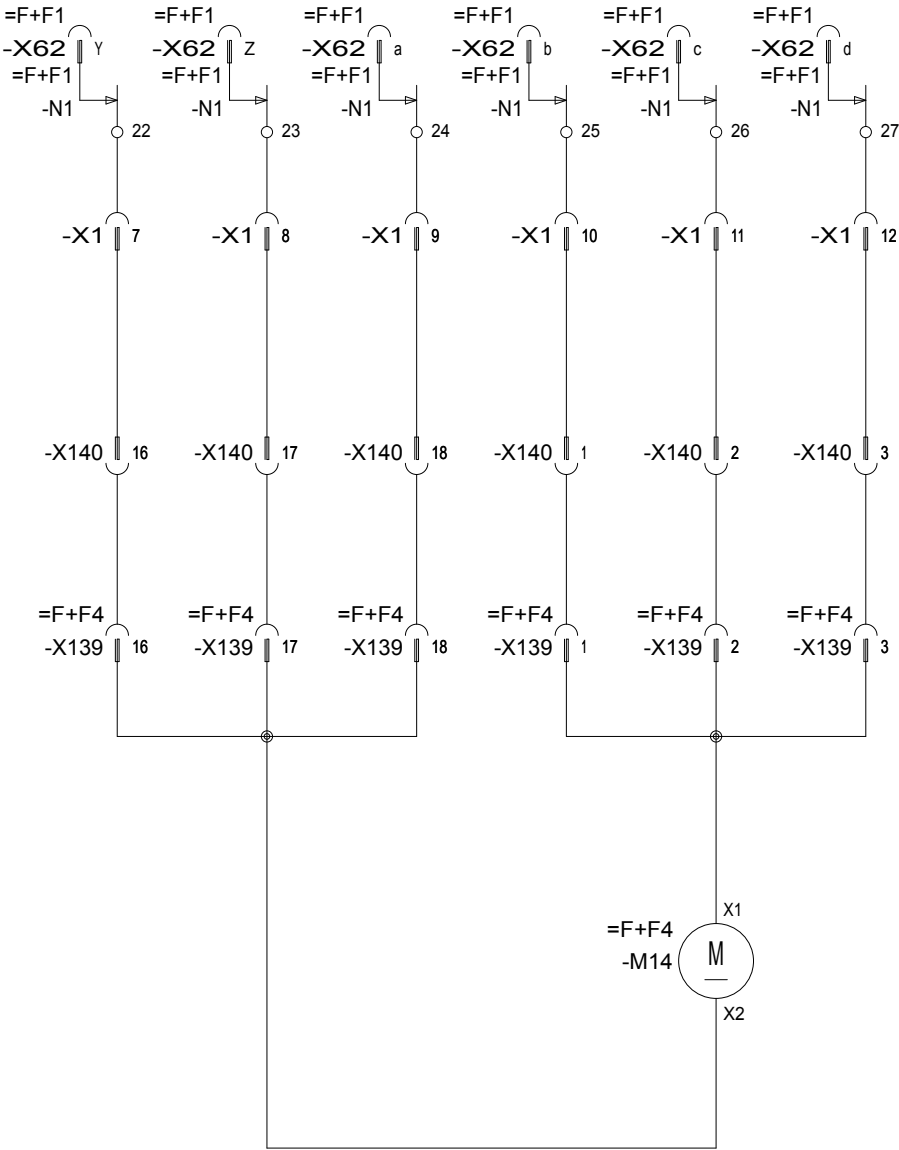
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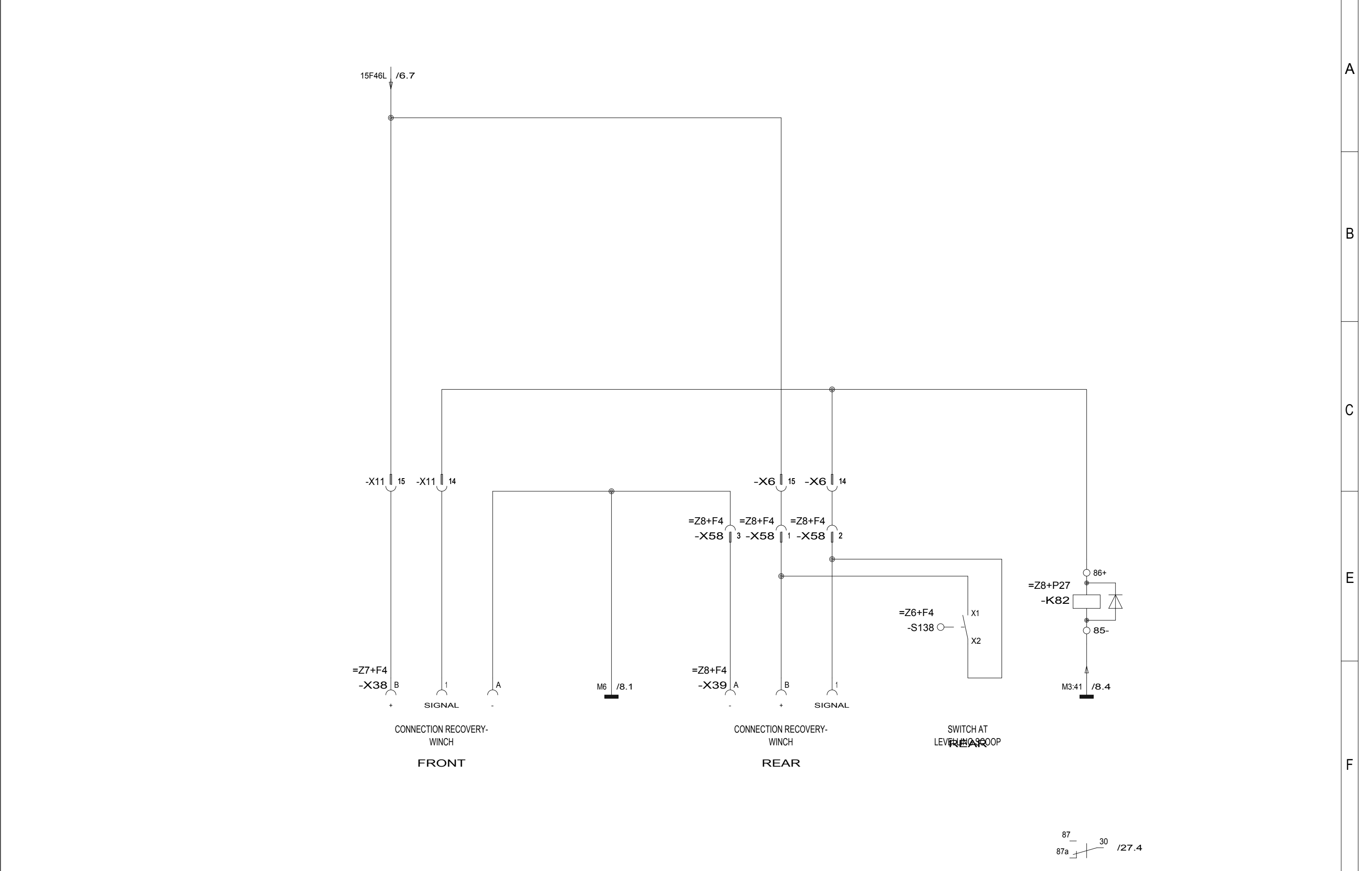
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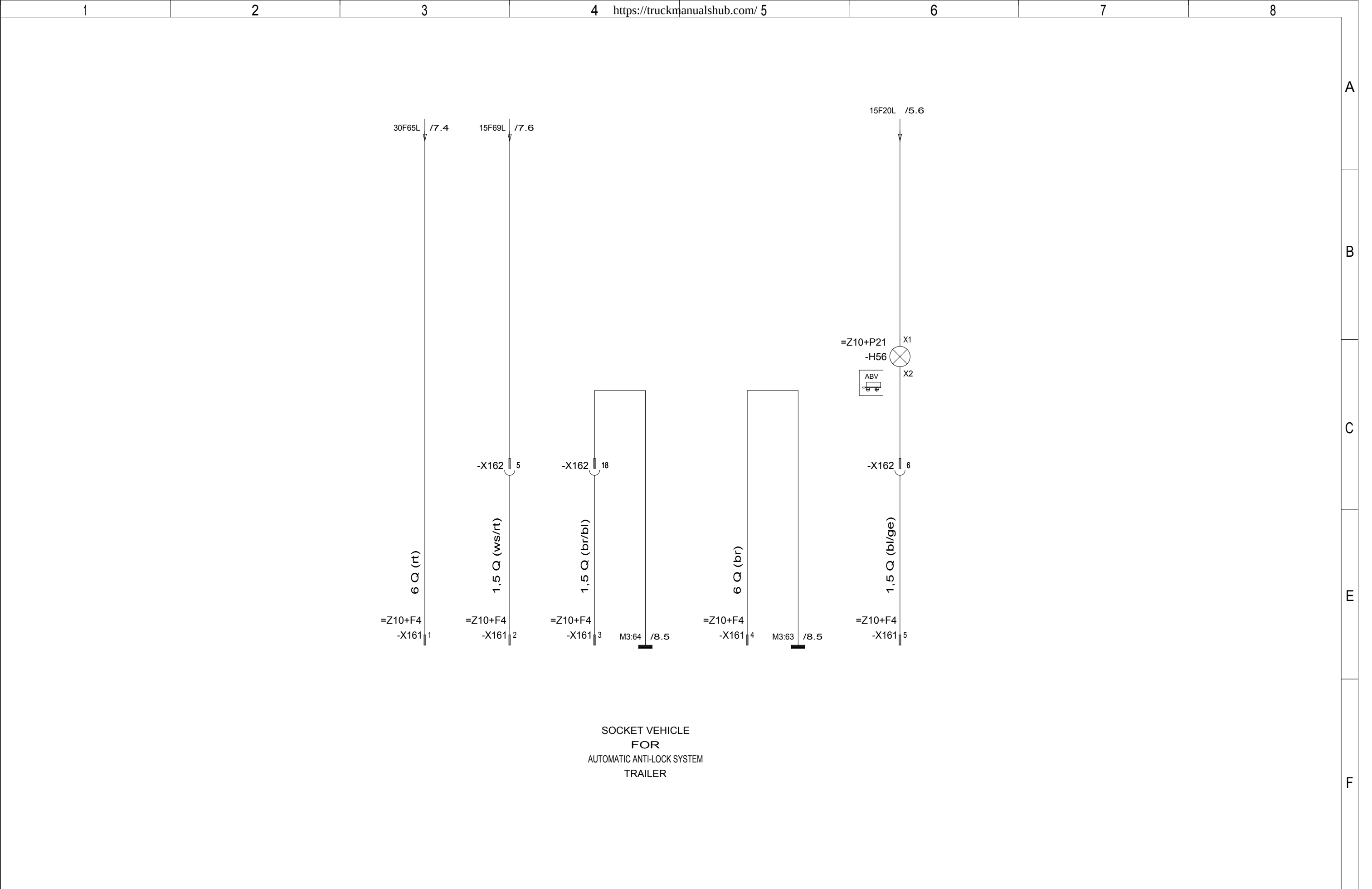
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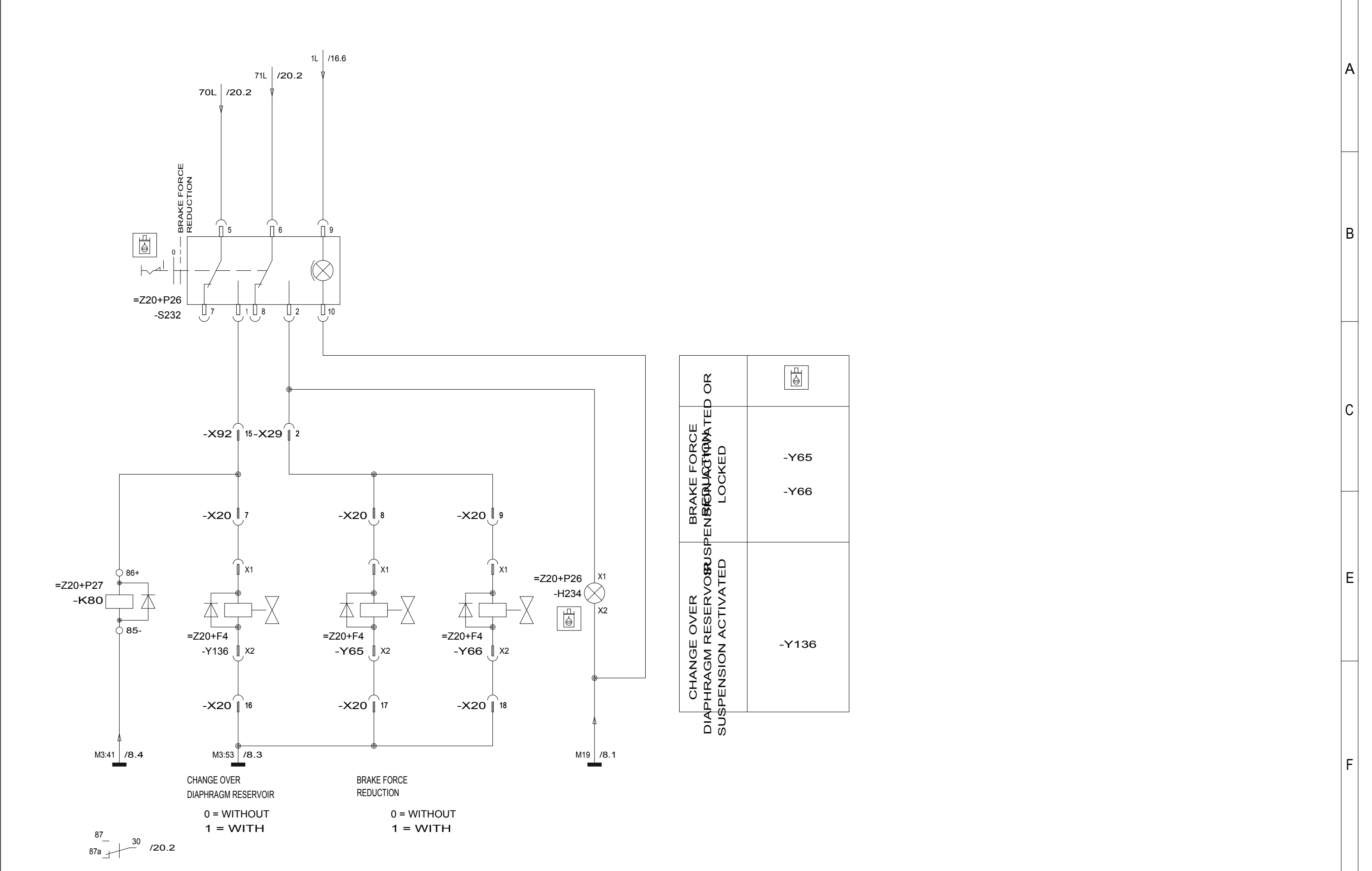
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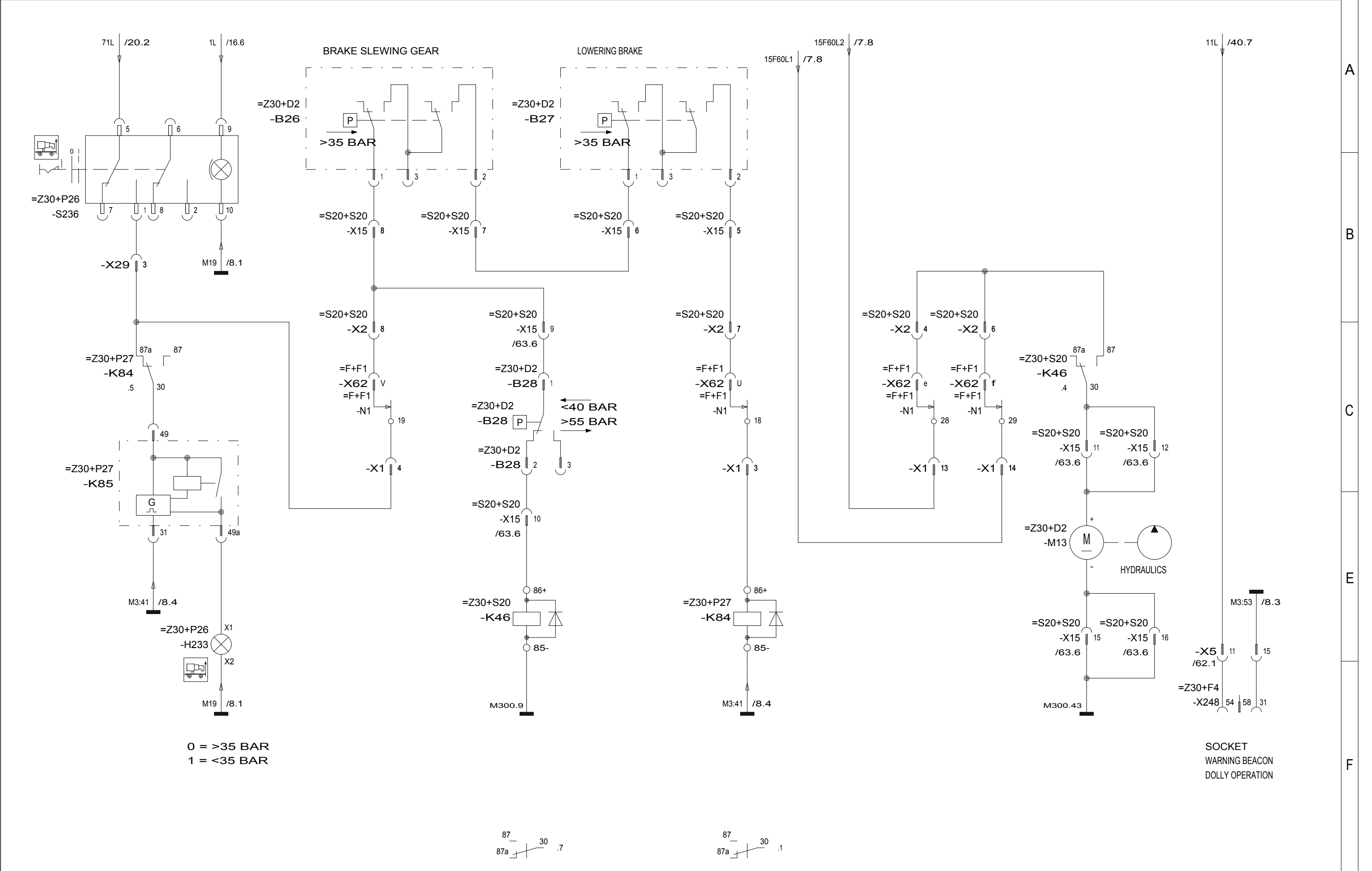


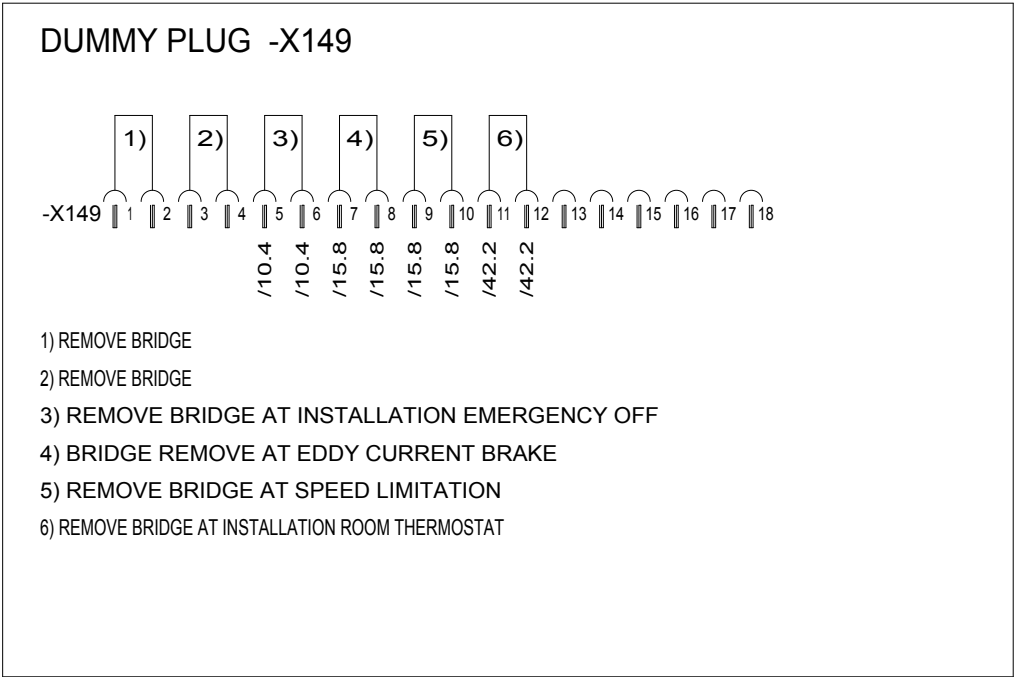
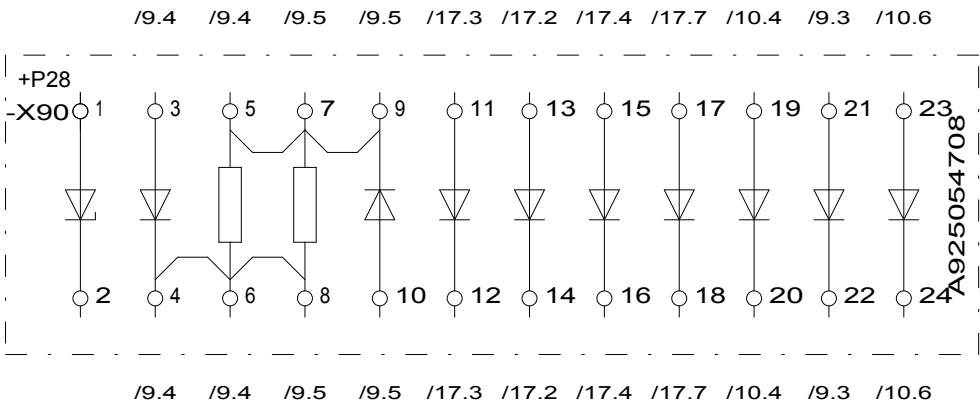
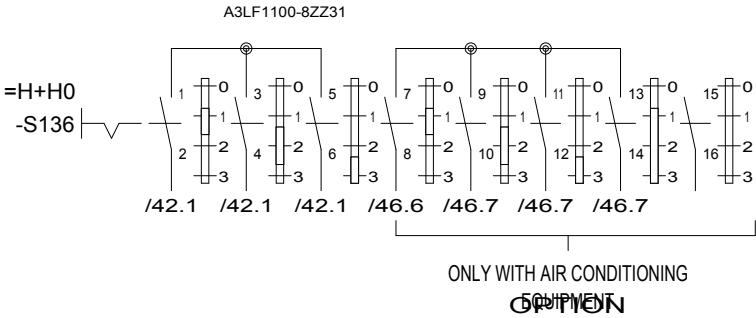
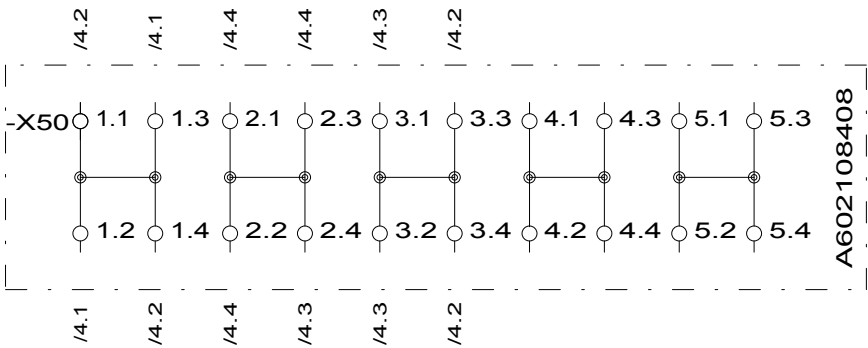
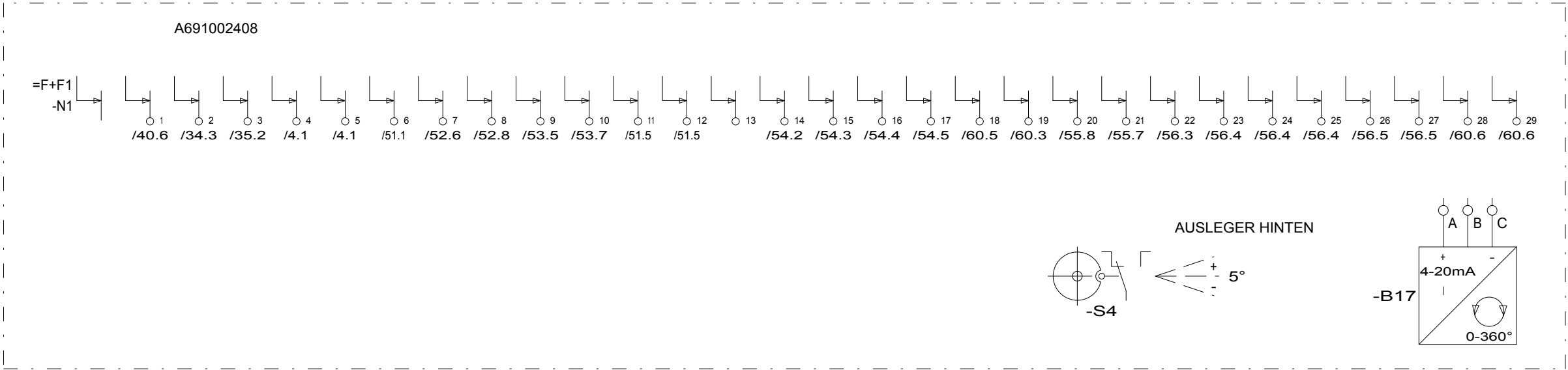




3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN	AUTOMATIC ANTI-LOCK SYSTEM TRAILER	OPTION	Ident-Nr. 982467908	=	P2
2				Ausgabe	19.10.07	Iwerof0					+	P20
1											Blatt	58
	Änderung	Datum	Name		Datum	Name	Copyright (c)			Zeich-Nr. 3261-920.00.00.001-003	von	78



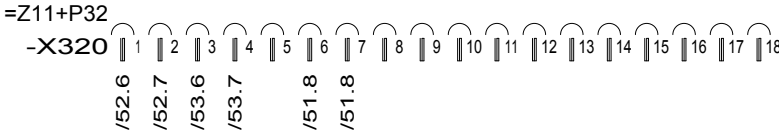
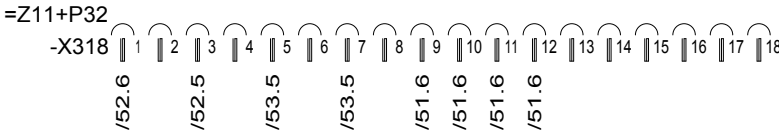
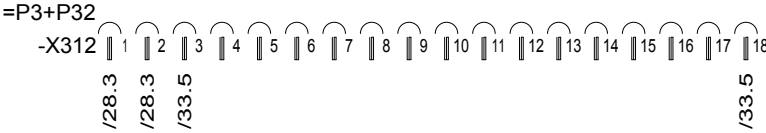
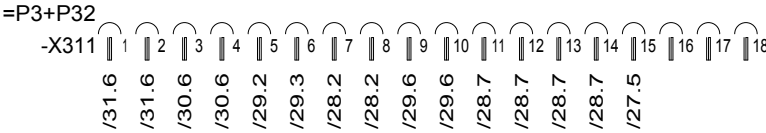
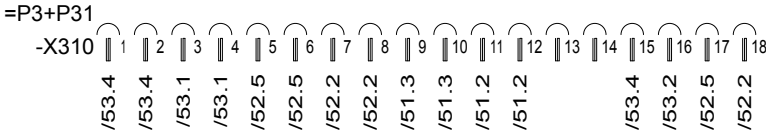
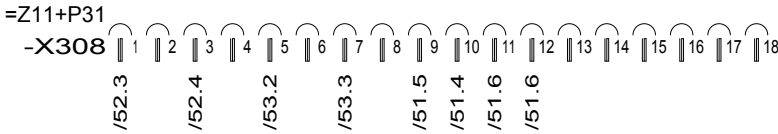
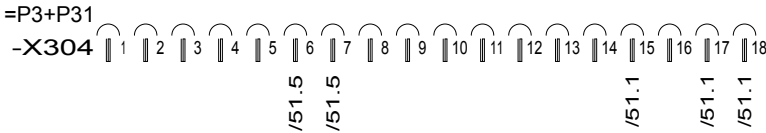
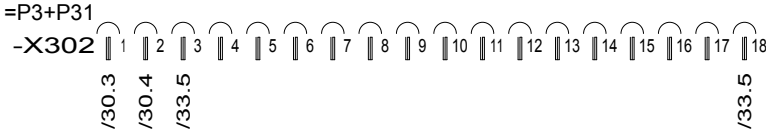
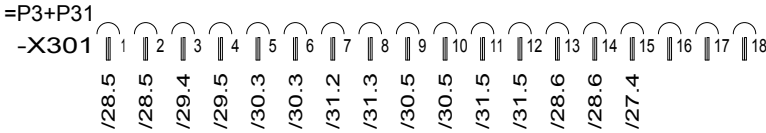


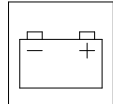
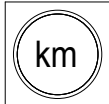
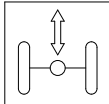
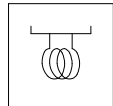
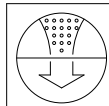
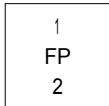
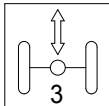
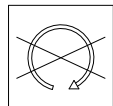
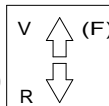
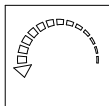
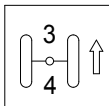
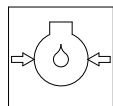
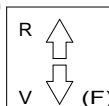
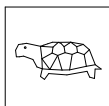
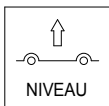
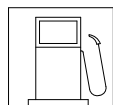
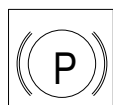
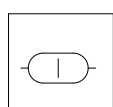
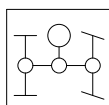
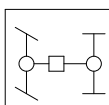
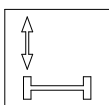
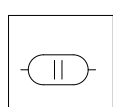
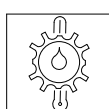
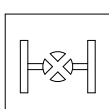
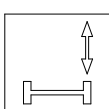
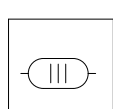
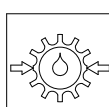
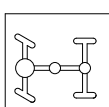
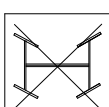
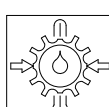
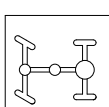
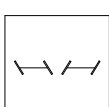
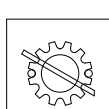
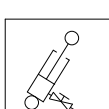
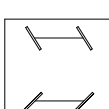
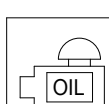
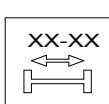
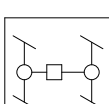
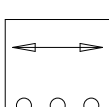
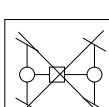


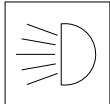
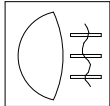
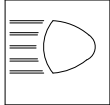
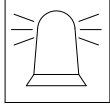
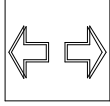
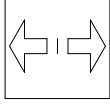
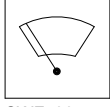
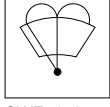
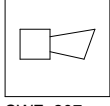
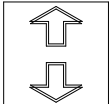
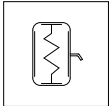
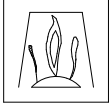
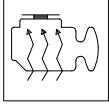
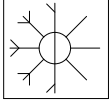
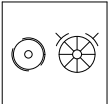
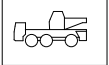
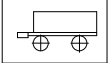
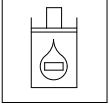
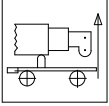
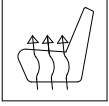
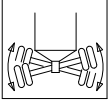
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 SWF_88				PREHEAT		 SWF_14				AIR FILTER		 SWF_184				DRIVING PROGRAM 1/2		 SWF_114		3. AXLE RAISING			B	
 SWF_28				ENGINE STOP		 SWF_46				SPEED SELECTION AID I		 SWF_11				FREE-WHEEL		 SWF_152		3./4. AXLE RAISING				C
 SWF_74				ENGINE OIL PRESSURE		 SWF_47				SPEED SELECTION AID II		 SWF_8				OFF-ROAD GEAR		 SWF_42		LEVEL		D		
 SWF_23				FUEL TANK INDICATOR		YELLOW GREEN																	E	
 SWF_38				PARKING BRAKE																				
 SWF_30				ENGINE TEMPERATURE																				
 SWF_19				AIR PRESSURE RESERVE I		 SWF_18				POWER TAKE-OFF		 SWF_9				ALL-WHEEL		 SWF_52				INCLINATION LEFT		F
 SWF_20				AIR PRESSURE RESERVE II		 SWF_36				TRANSMISSION OIL TEMPERATURE		 SWF_10				AXLE DIFFERENTIAL		 SWF_53				INCLINATION RIGHT		
 SWF_21				AIR PRESSURE RESERVE III		 SWF_35				TRANSMISSION OIL PRESSURE		 SWF_33				AXLE DIFFERENTIAL FRONT		 SWF_155				REAR AXKE REKEASE INTERMEDIATE POSITION		
 SWF_12				STEERING PUMP		 SWF_37				TRANSMISSION OIL TEMPERATURE / OIL PRESSURE		 SWF_31				AXLE DIFFERENTIAL REAR		 SWF_259				REAR AXLE STEERING		G
 SWF_13				RES. PUMP		 SWF_34				TRANSMISSION FAILURE		 SWF_82				SUSPENSION ACTIVATED / LOCKED		 SWF_154				REAR AXKE REKEASE		
						 SWF_190				OIL FILTER CLOGGED		 SWF_68				EQUALIZATION AXLE XX-XX		 SWF_105				CRAB STEERING		
												 SWF_176				EQUALIZATION AXLE 1, 2, 3		 SWF_106				CRAB STEERING INTERMEDIATE POSITION		
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 SWF_1 LIGHT  SWF_2 FOG TAIL LAMP FOG LAMP  SWF_6 WARNING FLASHER  SWF_24 HIGH BEAM  SWF_5 WARNING BEACON  SWF_103 LIGHTING OUTRIGGER  SWF_27 DIRECTION INDICATOR POWERED UNIT  SWF_29 DIRECTION INDICATOR TRAILER  SWF_99 WINDSCREEN WIPER  SWF_179 WINDSCREEN- WASHER  SWF_207 HOOTER  SWF_195 WINDOW LIFTER  SWF_83 REAR MIRROR HEATING  SWF_86 HEATING  SWF_157 PREHEATING ENGINE  SWF_7 AIR CONDITIONING EQUIPMENT  SWF_39 EDDY CURRENT BRAKE / TELMA ABV  SWF_172 AUTOMATIC ANTI-LOCK SYSTEM POWERED UNIT ABV  SWF_171 AUTOMATIC ANTI-LOCK SYSTEM TRAILER  SWF_69 FAILURE BRAKE LINING  SWF_98 BRAKE FORCE REDUCTION  SWF_149 DOLLY OPERATION  SWF_174 SEAT HEATING  SWF_89 FULL FLOATING AXLE  SWF_104 RADIO / RADIO																		A																		
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DISTINGUISHING SIGN		SYSTEM				DISTINGUISHING SIGN		LOCATIONS OF-ELECTRIC COMPONENTS		DISTINGUISHING SIGN		TYPE OF MATERIAL			
F H P2 S1-10 P3 B2 Z1-33		ELECTRICS CARRIER ELECTRICS DRIVER'S-CAB INSTRUMENTS DRIVER'S-CAB SWITCH CABINET EXCESS PRESSURE OUTRIGGERS LIGHTING EXCESS PRESSURE EXTRA EQUIPEMENT EXCESS PRESSURE				F1-9 H1-9 P20-29 S1"1"-"9" P30-39 *1 *1		ELECTRICS CARRIER ELECTRICS DRIVER'S-CAB INSTRUMENTS DRIVER'S-CAB SWITCH CABINET EXCESS PRESSURE OUTRIGGERS LIGHTING EXCESS PRESSURE EXTRA EQUIPEMENT EXCESS PRESSURE		A B C D E F G H K L M N P Q R S T U V W X Y Z		COMPONENTS / SUBASSEMBLIES CONVERTERS NOT ELECTR. VALUE <=> ELECTR. VALUE CONDENSER TIME-LAG DEVICES-MEMORY DEVICES-BINARY CELLS MISCELLANEOUS PROTECTIVE RELAYS GENERATORS / POWER SUPPLIES SIGNALLING DEVICES RELAY / CONTACTORS INDUCTANCES ENGINE SLIP RIING TRANSMISSION MEASURING EQUIPMENT / TESTING DEVICES POWER CURRENT - JUMPER WIRES RESISTORS SWITCH TRANSFORMERS MODULATORS / CONVERTERS SEMICONDUCTOR CIRCUITS CRAMP / PLUG / SOCKET VALVES TERMINATION, EQUALIZERS, FILTERS,-DELIMITERS, CABLE CONNECTIONS			
D K P1 S20-30 B1 L Z34-66		ELECTRIES SUPERSTRUCTURE ELECTRIES CABIN CONTROLS AND FITTING CABIN SWITCH CABINET SUPERSTRUCTURE LIGHTING SUPERSTRUCTURE LMB EXTRA EQUIPEMENT SUPERSTRUCTURE				D1-9 K1-9 P1-9 S20"1"-"9" *1 *1 *1		ELECTRIES SUPERSTRUCTURE ELECTRIES CABIN CONTROLS AND FITTING CABIN SWITCH CABINET SUPERSTRUCTURE LIGHTING SUPERSTRUCTURE LMB EXTRA EQUIPEMENT SUPERSTRUCTURE							
A Q W V S30-40 Z67-99		ELECTRIES BOOM ELECTRIES AUXILIARY JIB ELECTRIES LUFFING JIB ELECTRIES FOLDING JIB SWITCH CABINET / TERMINAL BOX EXTRA EQUIPEMENT BOOM				A1-9 Q1-9 W1-9 V1-9 S30"1"-"9" *1		ELECTRIES BOOM ELECTRIES AUXILIARY JIB ELECTRIES LUFFING JIB ELECTRIES FOLDING JIB SWITCH CABINET / TERMINAL BOX EXTRA EQUIPEMENT BOOM							
						*1 LOCATIONS IN THE EXISTING COMPONENTRIES									
EXAMPLE FUSE CROSS REFERENCE STAR-SHAPED															
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DIN- DESIGNATION SIGNAL															
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EXAMPLE OF A MATERIAL IDENTIFICATION															
= SYSTEM + LOCATION - TYPE OF MATERIAL COUNTING NUMBER : CONNECTION															
= P2 + P27 - K 53 : 30															
KEY OF SYMBOLS															
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET					
-A2	=Z11	+P31	52.2			-B11	=Z11	+F4	53.4			-E6	=B2	+F12	35.6												
-A3	=Z11	+P31	53.2			-B12	=Z11	+F4	52.5			-E7	=B2	+F13	34.8												
-A4	=Z11	+P32	53.5			-B13	=Z11	+F4	53.1			-E9	=B2	+F11	35.5												
-A5	=Z11	+P32	52.6			-B14	=Z11	+F4	52.2			-E10	=B2	+F13	34.7												
-A6	=Z11	+P31	51.2			-B16	=Z22	+H0	42.3			-E11	=B2	+F12	35.7												
-A7	=Z11	+P32	51.5			-B19	=Z11	+F4	51.2			-E13	=B2	+F12	38.5												
-A12	=P2	+P21	13.5			-B21	=Z11	+F4	54.2			-E14	=B2	+F11	36.3												
-A21	=P2	+P29	13.4			-B22	=Z11	+F4	54.3			-E15	=B2	+F11	38.2												
-A22	=P2	+P29	14.6			-B23	=Z11	+F4	54.4			-E16	=B2	+F11	38.1												
-A23	=P2	+P29	16.1			-B24	=Z11	+F4	54.5			-E17	=B2	+F11	38.3												
-A24	=F	+F3	16.2			-B26	=Z30	+D2	60.2			-E18	=B2	+F11	38.3												
-A26	=P2	+P29	32.6			-B27	=Z30	+D2	60.4			-E19	=B2	+F11	36.4												
-A29	=Z2	+P25	48.2			-B28	=Z30	+D2	60.4			-E20	=B2	+F14	35.1												
-A33	=P2	+P27	40.1			-E1	=B2	+F13	36.5			-E21	=B2	+F14	35.2												
-A37	=F	+F3	16.1			-E1	=P3	+P31	33.4			-E22	=Z5	+F11	37.4												
-A38	=P2	+P29	16.6			-E1	=P3	+P32	33.5			-E23	=Z5	+F11	37.4												
-A44	=Z19	+P29	15.5			-E2	=P3	+P31	33.4			-E24	=B2	+F12	37.6												
-A45	=Z19	+P29	15.2			-E2	=P3	+P32	33.6			-E25	=B2	+F13	38.6												
-A46	=Z19	+F3	15.4			-E2	=B2	+F12	36.3			-E27	=B2	+H0	40.8												
-A50	=Z21	+H0	43.2			-E3	=B2	+F12	36.8			-E28	=B2	+H0	40.7												
-A51	=Z21	+H0	43.6			-E3	=P3	+P32	33.6			-E29	=B2	+F13	34.8												
-A53	=P2	+P29	32.4			-E3	=P3	+P31	33.5			-E30	=B2	+F12	35.7												
-B1	=F	+F3	13.6			-E4	=B2	+F13	36.8			-E31	=B2	+H0	34.2												
-B2	=F	+F3	13.2			-E5	=B2	+F11	34.6			-E32	=B2	+H0	35.1												
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BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET		BMK		SYSTEM		PLACE		SHEET								
-E33	=B2	+F13	37.7			-E57	=B2	+F14	34.4			-F15	=P2	+P27	5.3			-F15	=P2	+P27	5.3			A						
-E34	=B2	+F14	34.2			-E58	=B2	+F14	34.4			-F16	=P2	+P27	5.3			-F16	=P2	+P27	5.3									
-E35	=B2	+F14	34.3			-E76	=B2	+F14	34.4			-F17	=P2	+P27	5.4			-F17	=P2	+P27	5.4									
-E36	=H	+H0	40.2			-E77	=B2	+F14	34.5			-F18	=P2	+P27	5.4			-F18	=P2	+P27	5.4									
-E37	=H	+H0	40.3			-E78	=B2	+F14	35.3			-F19	=P2	+P27	5.5			-F19	=P2	+P27	5.5			B						
-E38	=H	+H0	40.5			-E79	=B2	+F14	35.4			-F20	=P2	+P27	5.6			-F20	=P2	+P27	5.6									
-E39	=H	+H0	40.3			-E91	=B2	+F12	35.6			-F21	=P2	+P27	5.6			-F21	=P2	+P27	5.6									
-E40	=H	+H0	38.7			-E92	=B2	+F13	34.7			-F22	=P2	+P27	5.7			-F22	=P2	+P27	5.7									
-E41	=H	+H0	38.8			-E93	=Z29	+F11	38.2			-F23	=P2	+P27	5.7			-F23	=P2	+P27	5.7			C						
-E42	=H	+H0	38.8			-E94	=Z29	+F11	38.4			-F24	=P2	+P27	5.8			-F24	=P2	+P27	5.8									
-E43	=B2	+F14	34.3			-F1	=P2	+P27	5.2			-F25	=P2	+P27	6.1			-F25	=P2	+P27	6.1									
-E44	=B2	+F14	35.2			-F2	=P2	+P27	5.2			-F26	=P2	+P27	6.2			-F26	=P2	+P27	6.2									
-E45	=B2	+F14	34.5			-F3	=P2	+P27	5.3			-F27	=P2	+P27	6.2			-F27	=P2	+P27	6.2			E						
-E46	=B2	+F14	35.4			-F4	=P2	+P27	5.3			-F28	=P2	+P27	6.3			-F28	=P2	+P27	6.3									
-E47	=B2	+F14	35.3			-F5	=P2	+P27	5.4			-F29	=P2	+P27	6.3			-F29	=P2	+P27	6.3									
-E48	=B2	+F14	35.3			-F6	=P2	+P27	5.4			-F30	=P2	+P27	6.4			-F30	=P2	+P27	6.4									
-E49	=B2	+F15	36.2			-F7	=P2	+P27	5.5			-F31	=P2	+P27	6.5			-F31	=P2	+P27	6.5			F						
-E50	=B2	+F15	36.4			-F8	=P2	+P27	5.6			-F32	=P2	+P27	6.6			-F32	=P2	+P27	6.6									
-E51	=B2	+F15	36.2			-F9	=P2	+P27	5.6			-F33	=P2	+P27	6.6			-F33	=P2	+P27	6.6									
-E52	=B2	+F15	36.4			-F10	=P2	+P27	5.7			-F34	=P2	+P27	6.7			-F34	=P2	+P27	6.7									
-E53	=B2	+F12	34.6			-F11	=P2	+P27	5.7			-F35	=P2	+P27	6.7			-F35	=P2	+P27	6.7									
-E54	=B2	+F13	35.5			-F12	=P2	+P27	5.8			-F36	=P2	+P27	6.8			-F36	=P2	+P27	6.8									
-E55	=B2	+F12	34.6			-F13	=P2	+P27	5.2			-F37	=P2	+P27	6.1			-F37	=P2	+P27	6.1									
-E56	=B2	+F13	35.5			-F14	=P2	+P27	5.2			-F38	=P2	+P27	6.2			-F38	=P2	+P27	6.2									
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr. 982467908				= P2									
2				Ausgabe	19.10.07	Iwerof0													+ P20											
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-H55	=Z17	+P21	46.2			-K13	=P2	+P22	20.5			-K69	=Z16	+P27	49.1									A						
-H56	=Z10	+P21	58.6			-K14	=P2	+P22	20.5			-K70	=Z12	+P27	50.1															
-H101	=F	+F4	32.8			-K15	=P2	+P22	25.6			-K71	=P2	+P27	15.7															
-H102	=F	+F4	32.8			-K16	=P2	+P22	25.4			-K72	=P2	+P27	17.6															
-H105	=Z	+F12	38.5			-K17	=P2	+P22	25.5			-K73	=P2	+P27	17.3															
-H107	=Z4	+H0	40.4			-K18	=P2	+P22	25.4			-K75	=P2	+P27	25.1									B						
-H108	=Z4	+H0	40.5			-K19	=P2	+P22	19.4			-K76	=Z2	+P27	48.2															
-H109	=Z4	+H0	40.4			-K20	=P2	+P22	20.4			-K77	=P2	+P27	38.6															
-H201	=P2	+P26	20.7			-K31	=P2	+P22	18.3			-K78	=P2	+P27	17.4															
-H203	=P2	+P26	20.7			-K46	=Z30	+S20	60.4			-K80	=Z20	+P27	59.1															
-H233	=Z30	+P26	60.2			-K51	=P2	+P27	12.6			-K81	=Z19	+P27	15.6									C						
-H234	=Z20	+P26	59.4			-K53	=P2	+P27	12.7			-K82	=Z8	+P27	57.7															
-K1	=P2	+P22	9.5			-K54	=P2	+P27	17.5			-K83	=P2	+P27	20.6															
-K2	=P2	+P22	17.4			-K55	=P2	+P27	10.2			-K84	=Z30	+P27	60.5															
-K3	=P2	+P22	18.3			-K56	=P2	+P27	17.7			-K85	=Z30	+P27	60.1															
-K4	=P2	+P22	21.2			-K57	=P2	+P27	17.2			-K86	=P2	+P27	9.5									E						
-K5	=P2	+P22	21.3			-K58	=P2	+P27	17.5			-K91	=P2	+P20	10.2															
-K6	=P2	+P22	21.5			-K60	=P2	+P27	18.1			-K871	=Z17	+P26	46.8															
-K7	=P2	+P22	21.6			-K62	=P2	+P27	32.7			-K872	=Z17	+P26	46.3															
-K8	=P2	+P22	22.2			-K63	=P2	+P27	37.7			-K873	=Z17	+P26	46.6															
-K9	=P2	+P22	22.3			-K64	=Z1	+P27	42.6			-L1	=Z2	+F4	48.3															
-K10	=P2	+P22	22.5			-K65	=Z1	+P27	42.3			-L10	=F	+F3	10.5									F						
-K11	=P2	+P22	22.6			-K66	=Z1	+P27	42.5			-M1	=F	+F3	9.2															
-K12	=P2	+P22	22.8			-K68	=Z22	+P27	42.3			-M2	=H	+H0	32.5															
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr. 982467908				= P2									
2				Ausgabe	19.10.07	Iwerof0													+ P20											
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-M4	=H	+H0	42.2			-R7	=F	+F4	14.7			-S63	=Z16	+P23	49.4			-S63	=Z16	+P23	49.4			A						
-M5	=Z12	+H0	50.7			-R8	=Z16	+H1	49.4			-S64	=Z16	+P23	49.6			-S64	=Z16	+P23	49.6									
-M6	=Z12	+F11	50.3			-R8	=F	+F3	11.1			-S65	=P2	+P23	39.3			-S65	=P2	+P23	39.3									
-M7	=Z12	+F11	50.5			-R9	=Z16	+H1	49.5			-S66	=P2	+P23	39.6			-S66	=P2	+P23	39.6									
-M10	=H	+H0	32.7			-R9	=F	+F3	11.3			-S69	=H	+H0	39.6			-S69	=H	+H0	39.6			B						
-M11	=H	+H0	39.2			-R10	=F	+F3	11.4			-S71	=P2	+P23	12.5			-S71	=P2	+P23	12.5									
-M12	=H	+H0	39.5			-R10	=Z16	+H1	49.2			-S72	=Z17	+P23	46.2			-S72	=Z17	+P23	46.2									
-M13	=Z30	+D2	60.7			-R11	=Z16	+H1	49.3			-S81	=P2	+P23	25.3			-S81	=P2	+P23	25.3									
-M14	=F	+F4	56.5			-R44	=Z25	+H0	55.6			-S82	=P2	+P23	18.4			-S82	=P2	+P23	18.4			C						
-M15	=Z17	+H0	46.7			-S1	=P3	+P32	31.6			-S83	=P2	+P23	18.6			-S83	=P2	+P23	18.6									
-M871	=Z17	+H0	46.4			-S1	=P3	+P31	28.5			-S84	=P2	+P23	19.1			-S84	=P2	+P23	19.1									
-M872	=Z17	+H0	46.4			-S2	=P3	+P32	30.6			-S85	=P2	+P23	19.3			-S85	=P2	+P23	19.3									
-N1	=F	+F1	61.1			-S2	=P3	+P31	29.5			-S86	=P2	+P23	19.2			-S86	=P2	+P23	19.2			E						
-P11	=P2	+P21	15.1			-S3	=P3	+P31	30.3			-S92	=P2	+P23	32.4			-S92	=P2	+P23	32.4									
-P13	=P2	+P21	13.1			-S3	=P3	+P32	29.2			-S93	=P2	+P23	32.2			-S93	=P2	+P23	32.2									
-P14	=P2	+P24	9.6			-S4	=P3	+P31	31.2			-S94	=P2	+P23	40.7			-S94	=P2	+P23	40.7									
-P20	=P2	+P21	14.1			-S4	=P3	+P32	28.2			-S95	=P2	+P23	37.7			-S95	=P2	+P23	37.7			F						
-P260	=Z1	+P26	42.3			-S5	=P3	+P32	29.6			-S96	=Z1	+P23	42.5			-S96	=Z1	+P23	42.5									
-R1	=P2	+P28	9.4			-S5	=P3	+P31	30.5			-S103	=H	+H0	32.3			-S103	=H	+H0	32.3									
-R2	=P2	+P28	9.5			-S6	=P3	+P32	28.7			-S105	=Z2	+H0	48.2			-S105	=Z2	+H0	48.2									
-R3	=F	+F3	14.1			-S6	=P3	+P31	31.5			-S106	=F	+F2	4.4			-S106	=F	+F2	4.4			F						
-R6	=Z16	+H1	49.6			-S17	=P2	+P21	9.7			-S110	=F	+F4	18.2			-S110	=F	+F4	18.2									
-R6	=F	+F4	13.4			-S61	=P2	+P23	38.6			-S114	=F	+P26	13.5			-S114	=F	+P26	13.5									
-R7	=Z16	+H1	49.7			-S62	=Z16	+P23	49.2			-S115	=F	+P26	14.3			-S115	=F	+P26	14.3									
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr. 982467908				= P2									
2				Ausgabe	19.10.07	Iwerof0													+ P20											
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-S116	=F	+F4	14.2			-S155	=Z1	+H0	42.3			-S300	=Z11	+P32	51.7			-S300	=Z11	+P32	51.7			A						
-S117	=F	+F4	14.3			-S161	=F	+F4	19.6			-S301	=Z11	+P31	51.4			-S301	=Z11	+P31	51.4									
-S118	=F	+F4	14.4			-S162	=F	+F4	19.7			-S871	=Z17	+H0	46.8			-S871	=Z17	+H0	46.8									
-S119	=F	+F4	14.5			-S163	=F	+F4	19.7			-S875	=Z17	+P24	46.8			-S875	=Z17	+P24	46.8									
-S120	=F	+F4	14.5			-S164	=F	+F4	19.8			-U50	=Z4	+H0	40.4			-U50	=Z4	+H0	40.4			B						
-S121	=F	+F3	14.7			-S165	=F	+F4	20.6			-U51	=Z26	+P29	41.4			-U51	=Z26	+P29	41.4									
-S122	=F	+F4	19.4			-S167	=F	+F4	20.7			-V2	=P2	+P28	9.4			-V2	=P2	+P28	9.4									
-S123	=F	+F4	19.5			-S168	=F	+F4	20.7			-V3	=P2	+P28	9.5			-V3	=P2	+P28	9.5									
-S124	=F	+F4	19.5			-S199	=F	+F3	17.2			-V4	=P2	+P28	17.3			-V4	=P2	+P28	17.3			C						
-S131	=F	+F4	25.4			-S202	=Z25	+P26	55.6			-V5	=P2	+P28	17.2			-V5	=P2	+P28	17.2									
-S132	=H	+H0	36.8			-S206	=P2	+P26	16.5			-V6	=P2	+P28	17.4			-V6	=P2	+P28	17.4									
-S133	=H	+H0	36.8			-S210	=P2	+P26	25.7			-V7	=P2	+P28	17.7			-V7	=P2	+P28	17.7									
-S134	=H	+H0	40.1			-S220	=P2	+P26	16.4			-V8	=P2	+P28	10.4			-V8	=P2	+P28	10.4			D						
-S135	=H	+H0	40.2			-S222	=P2	+P26	20.1			-V9	=P2	+P28	9.3			-V9	=P2	+P28	9.3									
-S136	=H	+H0	61.4			-S224	=P2	+P26	20.4			-V10	=P2	+P28	10.6			-V10	=P2	+P28	10.6									
-S138	=Z6	+F4	57.6			-S226	=P2	+P26	20.3			-X0	=P2	+P20	62.1			-X0	=P2	+P20	62.1									
-S142	=F	+F4	21.2			-S232	=P2	+P25	16.5			-X1	=P2	+P20	62.1			-X1	=P2	+P20	62.1			E						
-S144	=F	+F4	21.5			-S232	=Z20	+P26	59.2			-X2	=S20	+S20	63.6			-X2	=S20	+S20	63.6									
-S146	=F	+F4	22.2			-S234	=P2	+P25	17.6			-X5	=P2	+P20	62.1			-X5	=P2	+P20	62.1									
-S148	=F	+F4	22.5			-S236	=Z30	+P26	60.1			-X6	=P2	+P20	62.1			-X6	=P2	+P20	62.1									
-S151	=F	+F4	25.5			-S242	=P2	+P26	21.4			-X7	=P2	+P20	62.1			-X7	=P2	+P20	62.1			F						
-S152	=F	+F3	17.5			-S244	=P2	+P26	21.7			-X8	=P2	+P20	62.1			-X8	=P2	+P20	62.1									
-S153	=H	+H0	17.7			-S246	=P2	+P26	22.4			-X9	=P2	+P20	62.1			-X9	=P2	+P20	62.1									
-S154	=P2	+P26	18.1			-S248	=P2	+P26	22.7			-X10	=P2	+P20	62.1			-X10	=P2	+P20	62.1									
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr. 982467908				= P2									
2				Ausgabe	19.10.07	Iwerof0													+ P20											
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-X11	=P2	+P20	62.4			-X57	=H	+H0	62.7			-X96B	=P2	+P22	65.5									A			
-X12	=P2	+P20	62.4			-X58	=Z8	+F4	62.8			-X121	=Z4	+H0	63.1												
-X13	=P2	+P20	62.4			-X59	=H	+H0	63.1			-X123	=Z4	+H0	63.2												
-X14	=P2	+P20	62.4			-X60	=Z21	+H0	63.2			-X125	=P2	+P26	63.1												
-X15	=S20	+S20	63.6			-X60	=Z23	+H0	63.3			-X126	=P2	+P20	63.2												
-X16	=P2	+P20	62.4			-X71	=P2	+P20	63.1			-X127	=H	+H0	63.1									B			
-X17	=P2	+P20	62.4			-X72	=H	+H0	63.1			-X128	=H	+H0	63.2												
-X19	=P2	+P20	62.4			-X76	=P2	+P20	63.1			-X139	=F	+F4	63.4												
-X20	=P2	+P20	62.4			-X77	=P2	+P20	63.2			-X140	=P2	+P20	63.4												
-X29	=P2	+P20	62.4			-X78	=P2	+P20	63.2			-X141	=F	+F3	63.4												
-X31	=H	+H0	62.4			-X79	=P2	+P20	63.3			-X144	=F	+F4	63.5									C			
-X36	=P2	+P20	62.6			-X81	=P2	+P21	40.3			-X148	=Z11	+P20	63.4												
-X37	=P2	+P20	62.6			-X84	=P2	+H1	63.1			-X149	=P2	+P20	61.6												
-X40	=P2	+P20	62.6			-X85	=P2	+H1	63.2			-X156	=P2	+P20	63.4												
-X46	=Z2	+H0	62.6			-X86	=P2	+H1	63.2			-X157	=P2	+P20	63.4												
-X48	=P2	+P29	62.7			-X89	=P2	+P20	63.1			-X158	=P2	+P20	63.4									E			
-X49	=P2	+P29	62.6			-X90	=P2	+P28	61.1			-X160	=P2	+P20	63.4												
-X50	=P2	+P20	61.1			-X92	=P2	+P20	63.1			-X162	=P2	+P20	63.4												
-X52	=P2	+P20	62.6			-X93	=P2	+P20	63.1			-X163	=F	+F4	63.4												
-X53	=P2	+P20	62.6			-X94A	=P2	+P22	65.2			-X176	=F	+F3	63.6												
-X54	=P2	+P20	62.7			-X94B	=P2	+P22	65.5			-X190	=P2	+P20	63.6									F			
-X54	=Z25	+H0	62.8			-X95A	=P2	+P22	65.2			-X301	=P3	+P31	64.2												
-X55	=Z1	+H0	62.6			-X95B	=P2	+P22	65.5			-X302	=P3	+P31	64.2												
-X56	=Z25	+H0	62.6			-X96A	=P2	+P22	65.2			-X304	=P3	+P31	64.2												
3				Gez.	10.02.00	Iwerew0	LIEBHERR WERK EHINGEN		OPERATING EQUIPMENT								Ident-Nr. 982467908				= P2						
2				Ausgabe	19.10.07	Iwerof0											Blatt 76										
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BMK		SYSTEM		PLACE	SHEET	BMK		SYSTEM		PLACE	SHEET	BMK		SYSTEM		PLACE	SHEET	BMK		SYSTEM		PLACE	SHEET				
-X308	=Z11	+P31		64.2		-Y16	=F	+F4		22.4		-Y34	=Z21	+F4		42.7		-Y34	=Z21	+F4		42.7					
-X310	=P3	+P31		64.2		-Y17	=F	+F4		22.4		-Y35	=F	+F4		15.8		-Y35	=F	+F4		15.8					
-X311	=P3	+P32		64.5		-Y18	=F	+F4		22.6		-Y48	=F	+F3		11.2		-Y48	=F	+F3		11.2					
-X312	=P3	+P32		64.5		-Y19	=F	+F4		22.7		-Y50	=Z1	+H0		42.5		-Y50	=Z1	+H0		42.5					
-X318	=Z11	+P32		64.5		-Y20	=F	+F4		25.2		-Y62	=F	+F4		18.4		-Y62	=F	+F4		18.4					
-X320	=Z11	+P32		64.5		-Y21	=F	+F4		25.3		-Y63	=F	+F4		18.6		-Y63	=F	+F4		18.6					
-X870	=P2	+P20		63.6		-Y22A	=F	+F4		25.7		-Y64	=F	+F4		18.6		-Y64	=F	+F4		18.6					
-X871	=Z17	+H0		63.6		-Y22B	=F	+F4		25.7		-Y65	=Z20	+F4		59.3		-Y65	=Z20	+F4		59.3					
-X872	=Z17	+H0		63.7		-Y26A	=P3	+P30		29.2		-Y66	=Z20	+F4		59.3		-Y66	=Z20	+F4		59.3					
-X874	=Z17	+H0		63.6		-Y26B	=P3	+P30		29.3		-Y69	=F	+F4		20.2		-Y69	=F	+F4		20.2					
-X875	=Z17	+H0		63.7		-Y27A	=P3	+P30		28.2		-Y70	=F	+F4		20.3		-Y70	=F	+F4		20.3					
-X876	=Z17	+H0		63.6		-Y27B	=P3	+P30		28.2		-Y71	=F	+F3		9.2		-Y71	=F	+F3		9.2					
-X877	=Z17	+H0		63.7		-Y28A	=P3	+P30		31.2		-Y85	=Z17	+F4		46.1		-Y85	=Z17	+F4		46.1					
-XB	=P2	+P21		63.6		-Y28B	=P3	+P30		31.3		-Y87	=F	+F4		10.4		-Y87	=F	+F4		10.4					
-Y3	=F	+F4		12.5		-Y29A	=P3	+P30		30.3		-Y92	=F	+F4		12.4		-Y92	=F	+F4		12.4					
-Y4	=F	+F4		12.7		-Y29B	=P3	+P30		30.3		-Y107	=P3	+P30		27.1		-Y107	=P3	+P30		27.1					
-Y5	=F	+F4		19.1		-Y30A	=P3	+P30		30.5		-Y108	=P3	+P30		27.2		-Y108	=P3	+P30		27.2					
-Y6	=F	+F4		19.2		-Y30B	=P3	+P30		30.5		-Y109	=P3	+P30		27.3		-Y109	=P3	+P30		27.3					
-Y7	=F	+F4		19.3		-Y31A	=P3	+P30		31.5		-Y110	=P3	+P30		27.5		-Y110	=P3	+P30		27.5					
-Y9	=F	+F4		20.1		-Y31B	=P3	+P30		31.5		-Y136	=Z20	+F4		59.2		-Y136	=Z20	+F4		59.2					
-Y10	=F	+F4		21.3		-Y32A	=P3	+P30		28.5		-Y145	=F	+F4		12.6		-Y145	=F	+F4		12.6					
-Y11	=F	+F4		21.4		-Y32B	=P3	+P30		28.5		-Y872	=Z17	+H0		46.5		-Y872	=Z17	+H0		46.5					
-Y12	=F	+F4		21.7		-Y33A	=P3	+P30		29.4																	
-Y13	=F	+F4		21.7		-Y33B	=P3	+P30		29.5																	
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