

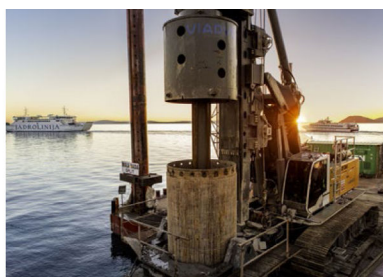


Model:

HS 8100 HD

Serial number:

184998



001 - 14.03.2019 / lwnscj0

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
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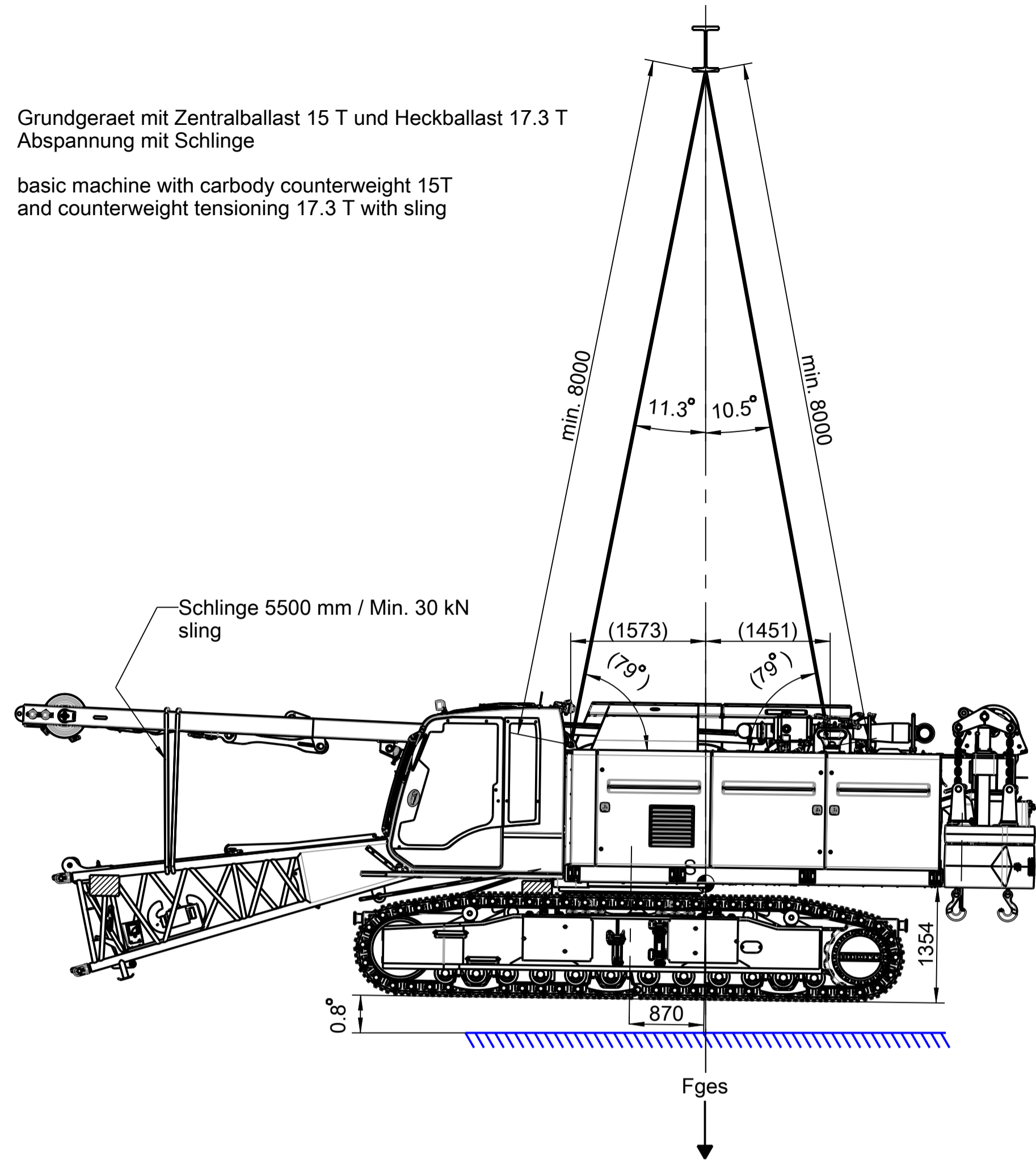


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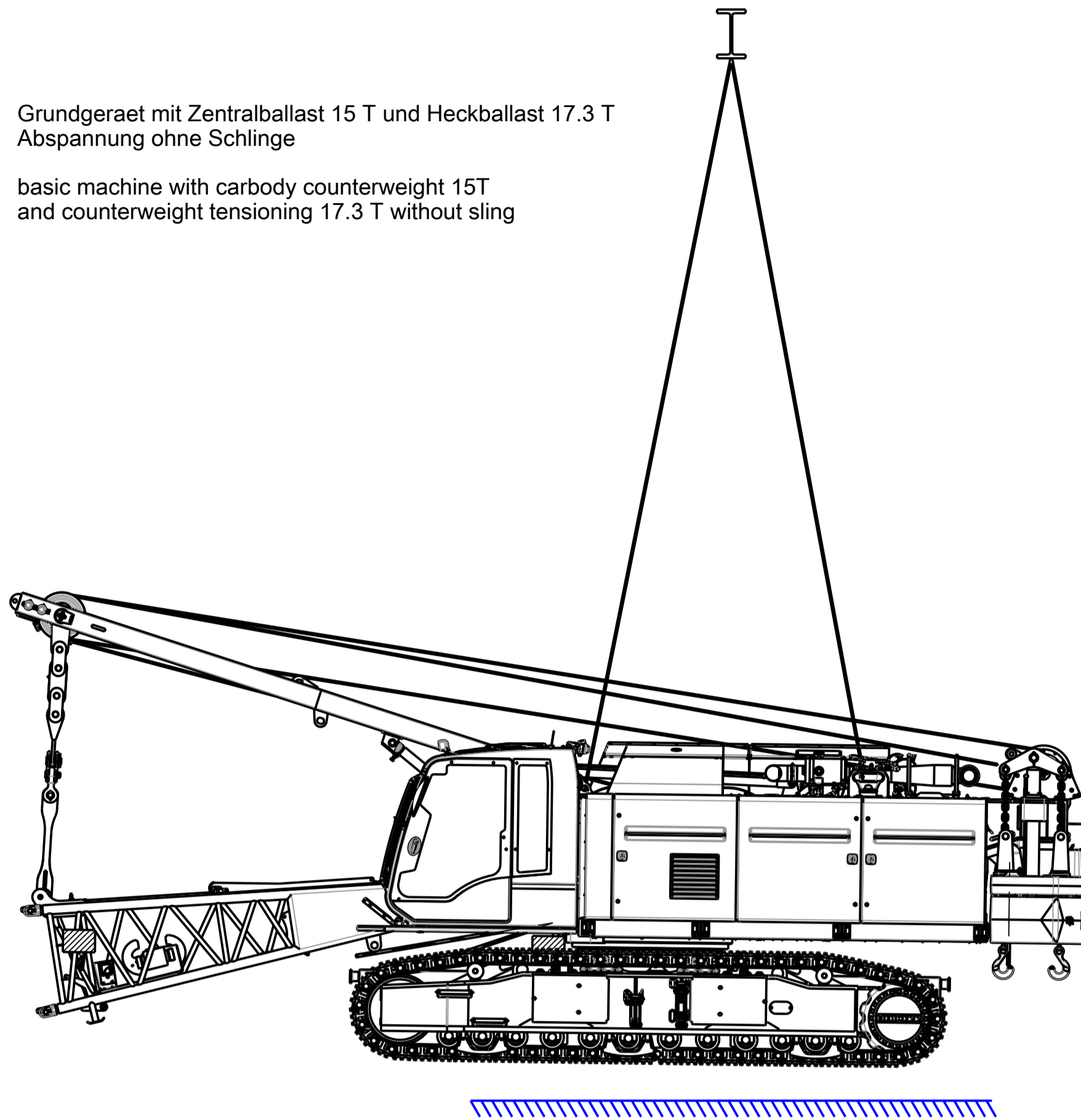
Grundgeraet mit Zentralballast 15 T und Heckballast 17.3 T
Abspannung mit Schlinge

basic machine with carbody counterweight 15T
and counterweight tensioning 17.3 T with sling



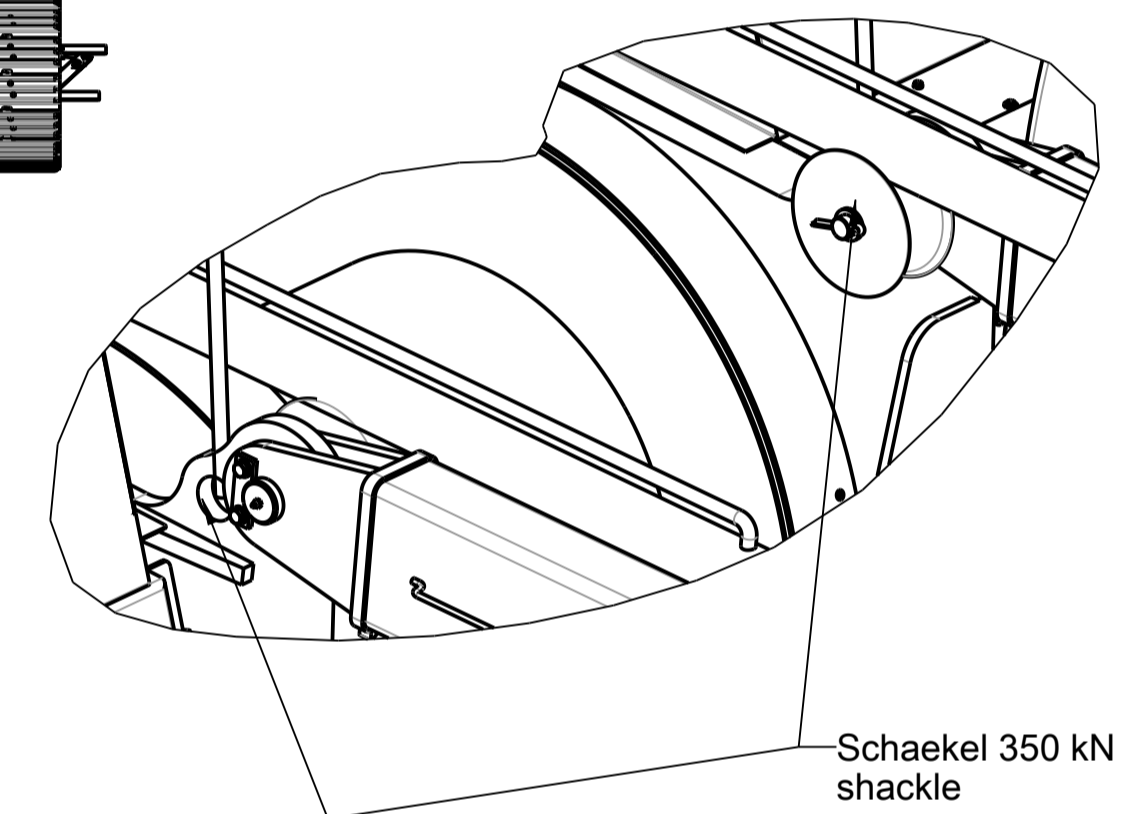
Grundgeraet mit Zentralballast 15 T und Heckballast 17.3 T
Abspannung ohne Schlinge

basic machine with carbody counterweight 15T
and counterweight tensioning 17.3 T without sling



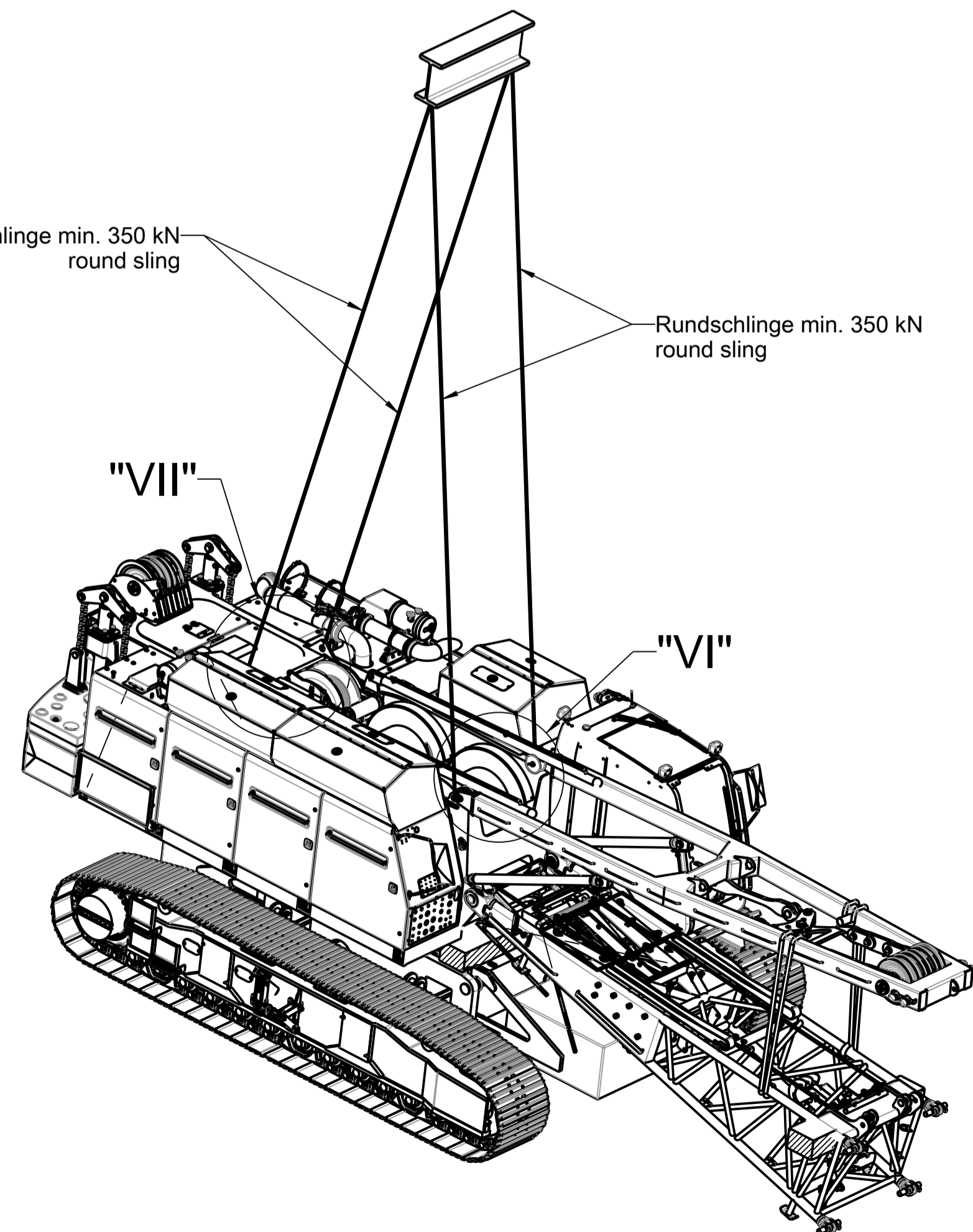
Geraetetyp type of machine	HS 8100
Transportgewicht Fges transportation weight	920 kN

DETAIL "VI"
1:10

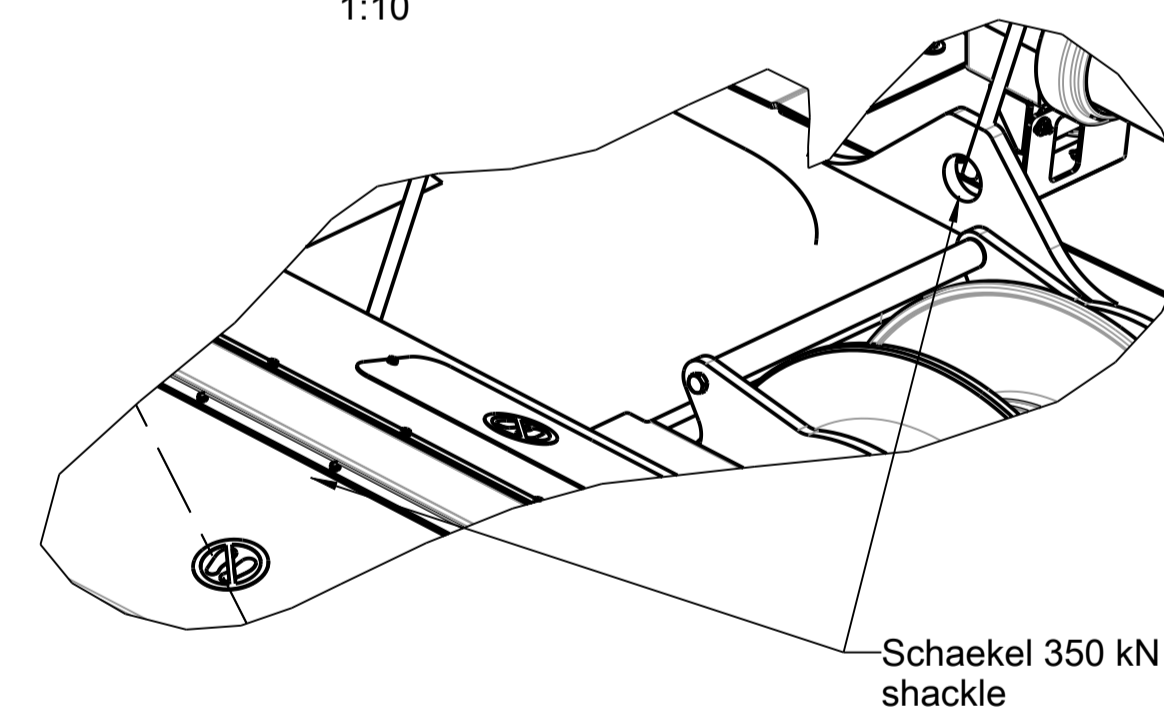


Rundschlinge min. 350 kN
round sling

Rundschlinge min. 350 kN
round sling



DETAIL "VII"
1:10



ACHTUNG!
Zum Heben müssen 17.3 T Heckballast
angebaut sein !!

attention!
17.3 T counterweight must be assembled
for lifting!!

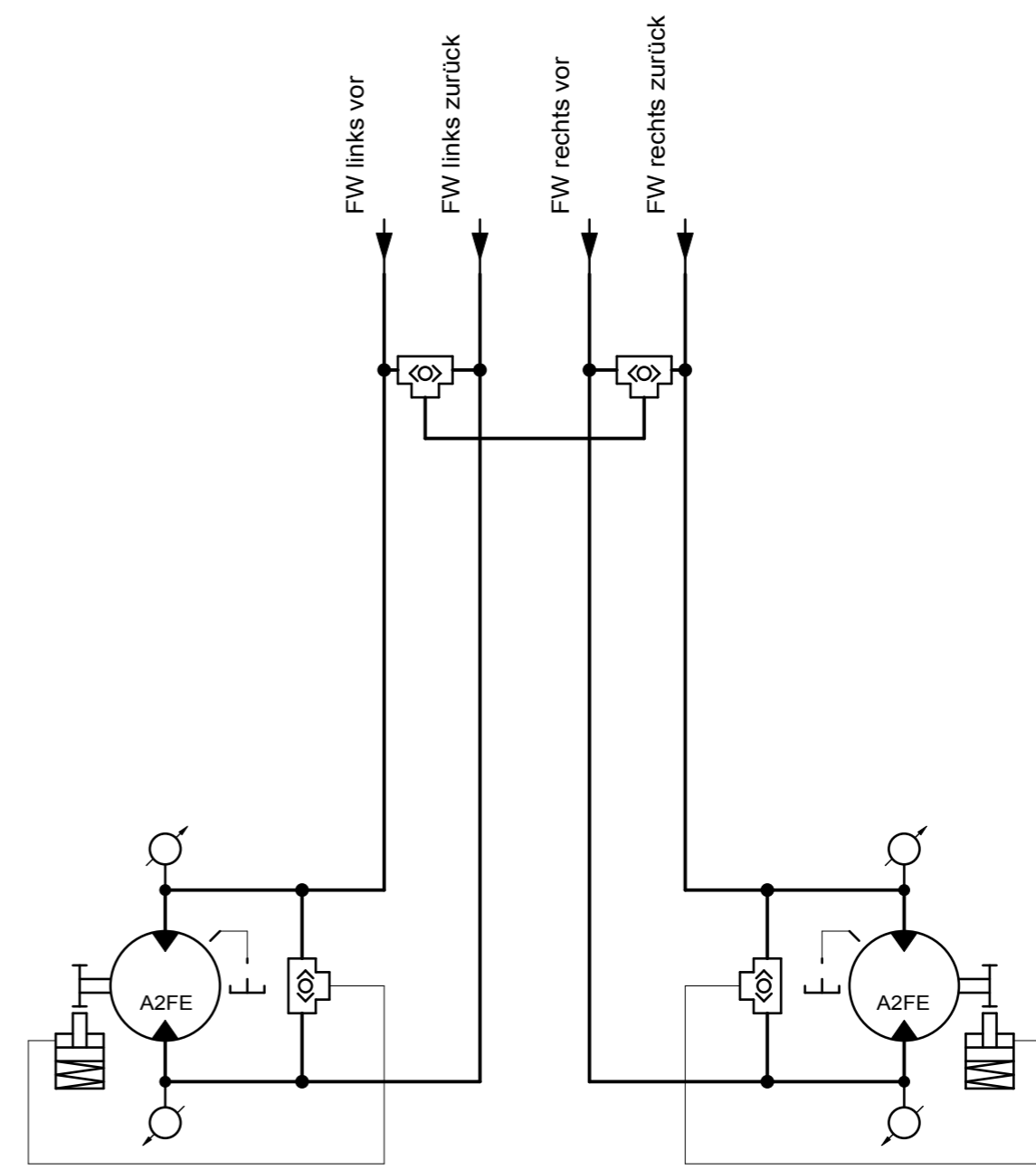
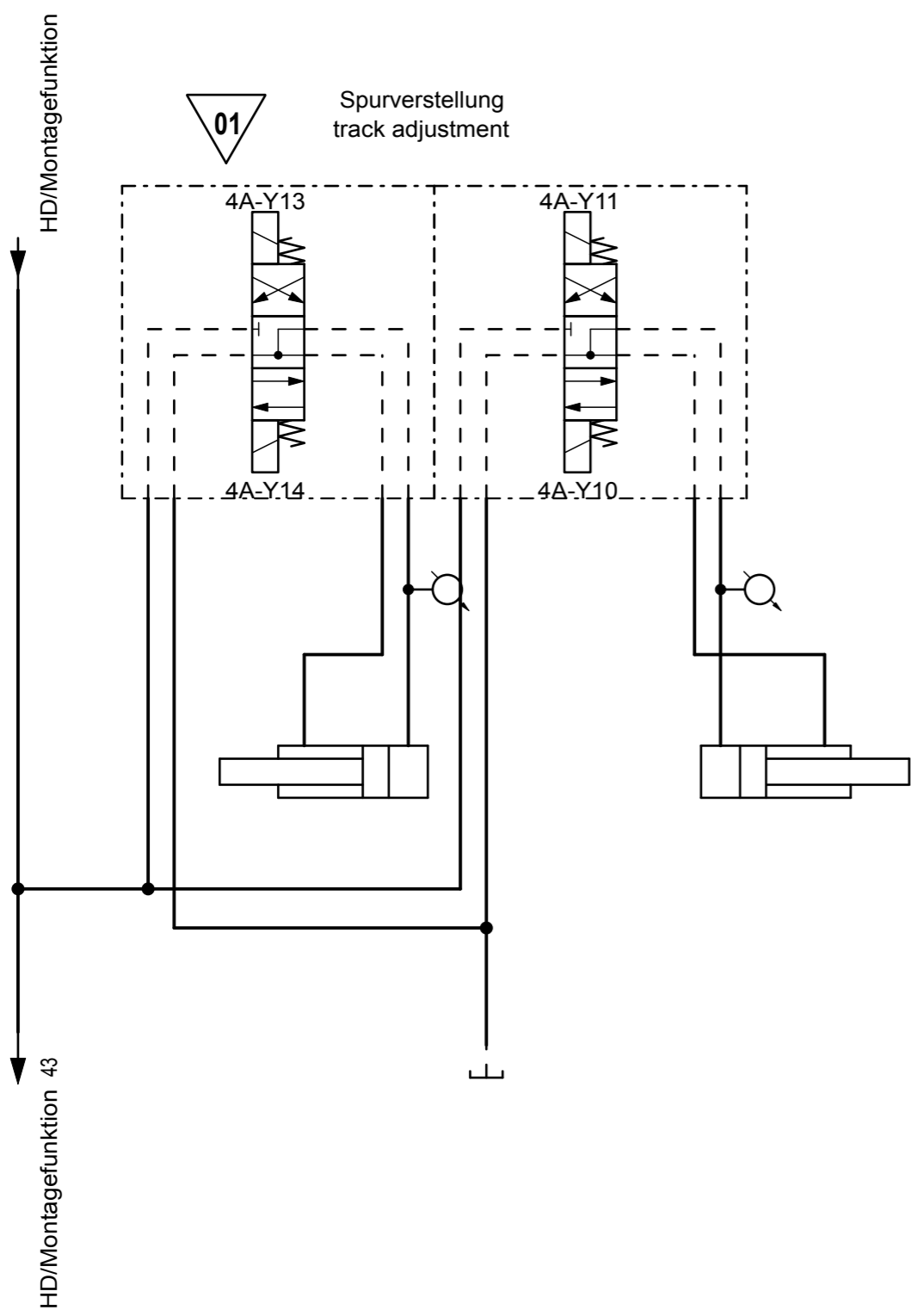
Alle losen Teile muessen gegen
Abheben und Verrutschen
gesichert werden!!

All loose components have to be
fixed to prevent lift off and sliding!!

Je nach ausgelieferter
Konfiguration der Befuellung
der Tanks, sowie der
allgemein gueltigen Toleranzen
koennen Masse und Schwerpunkt
von diesen Werten abweichen.

mass and cog can be deviate because
of tolerances, oil, fuel content and
optional equipment.

Zeichnungsnr. / drawing no.		522 059 1000 00 001		
Benennung / description		ANSCHLAGPUNKTE ATTACHMENT POINTS		
Art.code / item code	10516647	Gewicht / weight	Projekl. / proj. mgr.	01.10.2013
			Ersteller / originator	01.10.2013
LIEBHERR Liebherr-Werk Nenzing GmbH		Ind. / idx.	Änd. / rev.	Dat. / date
				Name / name
Allgemeintoleranzen ISO 2768 - mK - E		Ludescher		
Allgemeintoleranzen für Schweißkonstruktionen ISO 13920 - BF		Gassner M.		
Angabe der Oberflächenbeschaffenheit in der technischen Produktdokumentation ISO 1302		CAD - PTC		
Zusammenhang zwischen Maß-, Form- und Parallelitätstoleranzen DIN 7167		Maßstab / scale		
General tolerances ISO 2768 - mK - E		1:50		
General tolerances for welded constructions ISO 13920 - BF		Blatt/von / sheet/of		
Indication of surface texture in technical product documentation ISO 1302		3/8		
Relationship between dimensional tolerances and form and parallelism tolerances DIN 7167				

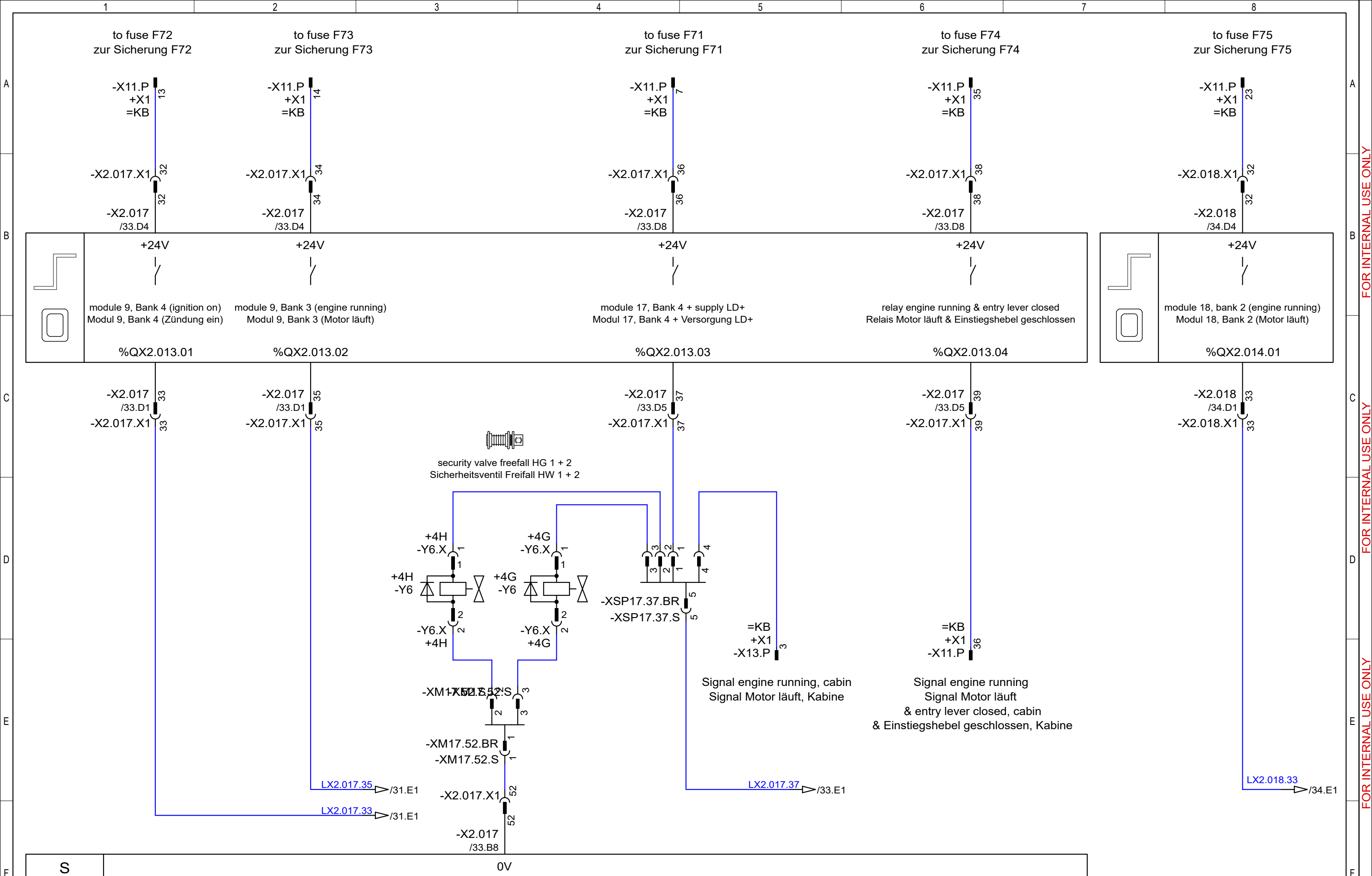


01	192883	13.09.16	Zimmermann A.	Erstellt issued	09.12.14	Reinhardt
Ind:	Änd. Nr.:	Datum	Name	geprüft approved	08.08.16	Kräutler
ind:	mod.no.:	date	name			



Schaltplan Hydraulik
diagram hydraulic

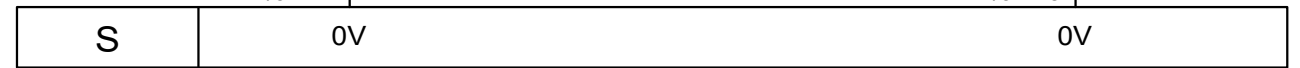
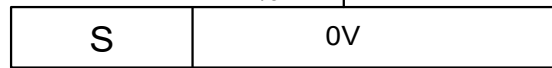
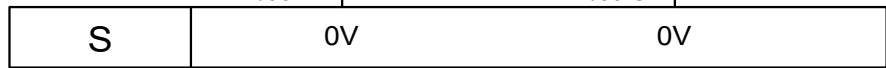
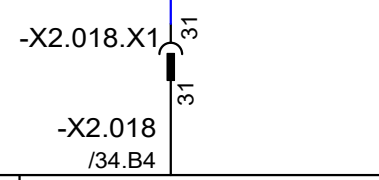
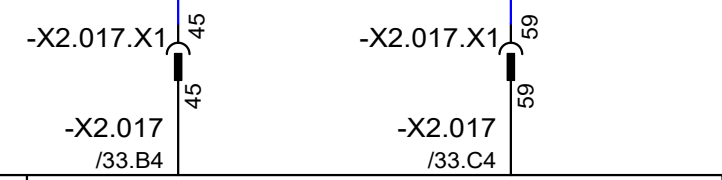
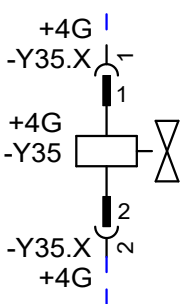
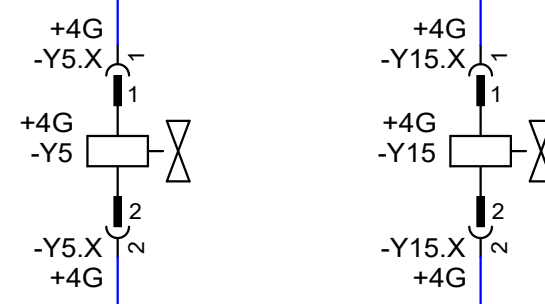
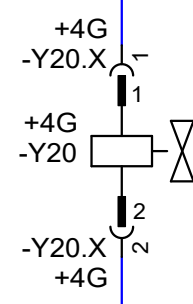
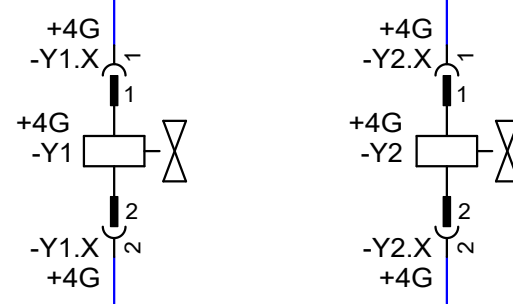
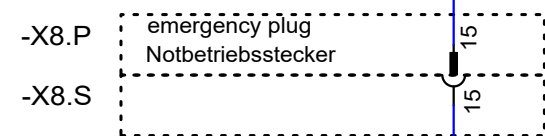
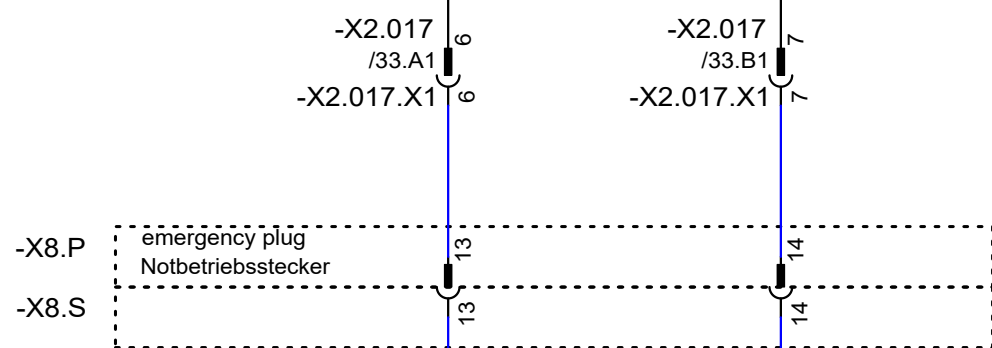
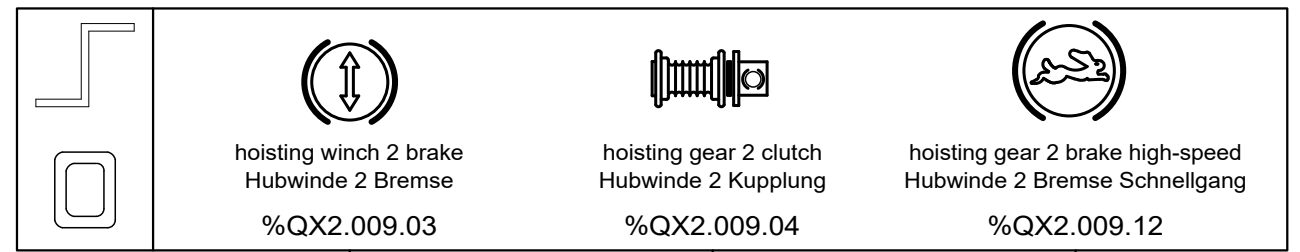
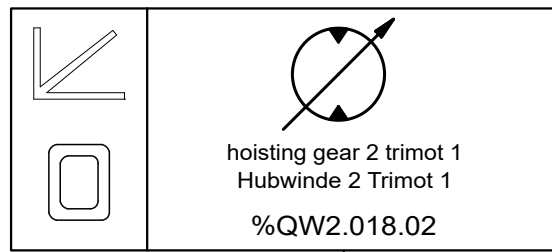
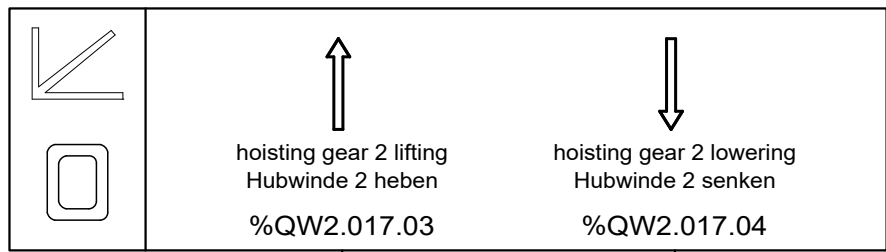
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	Identnr.:	11290557	von	1
	Identnr.:		of	



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ind:				issued	18.04.13	lwnkas1	Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	switch off security		drawing no.:	514 071 9100 06 003	assembly group	=OW	sheet	9
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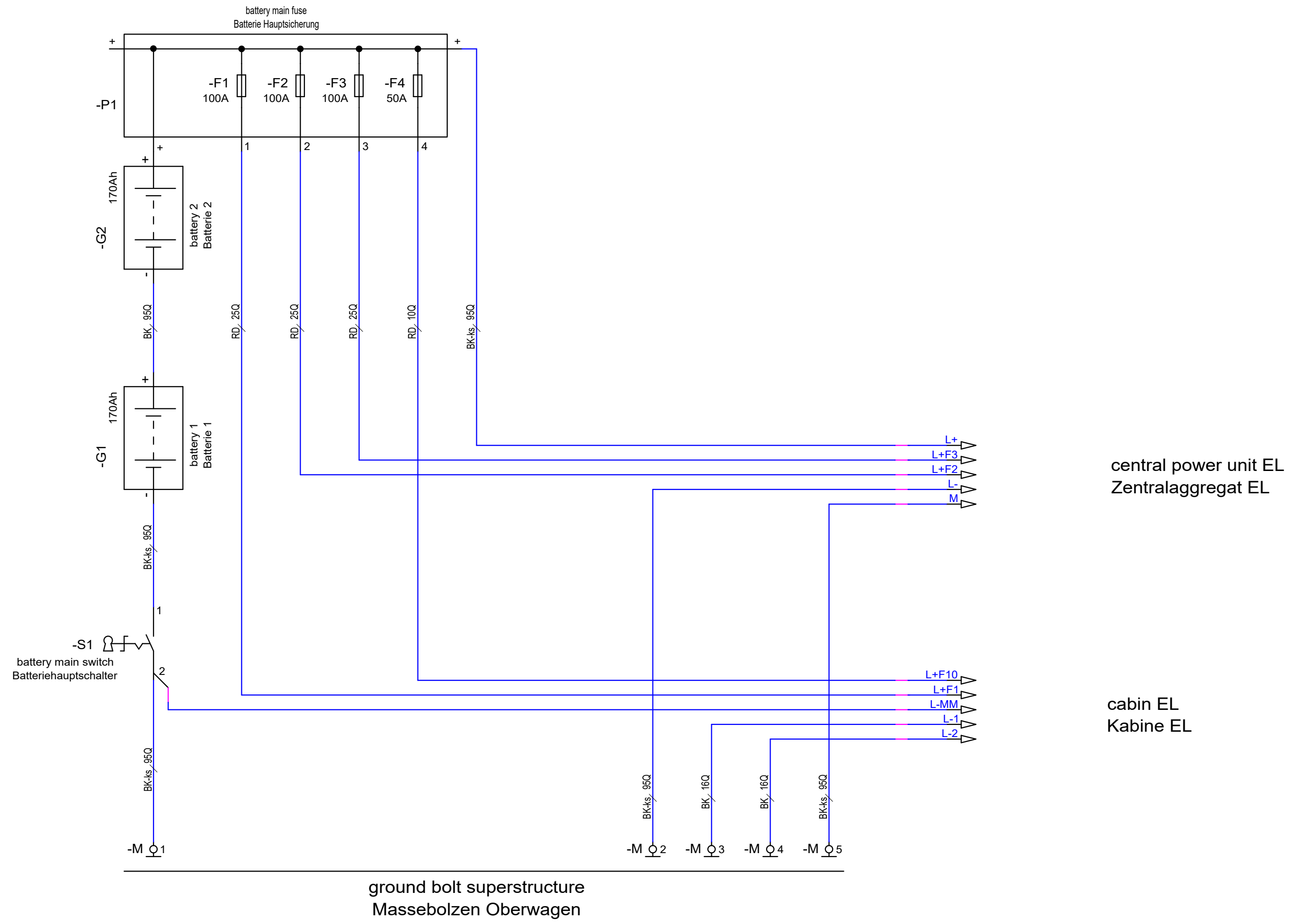
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--- additional devices
Zusatzeinrichtungen

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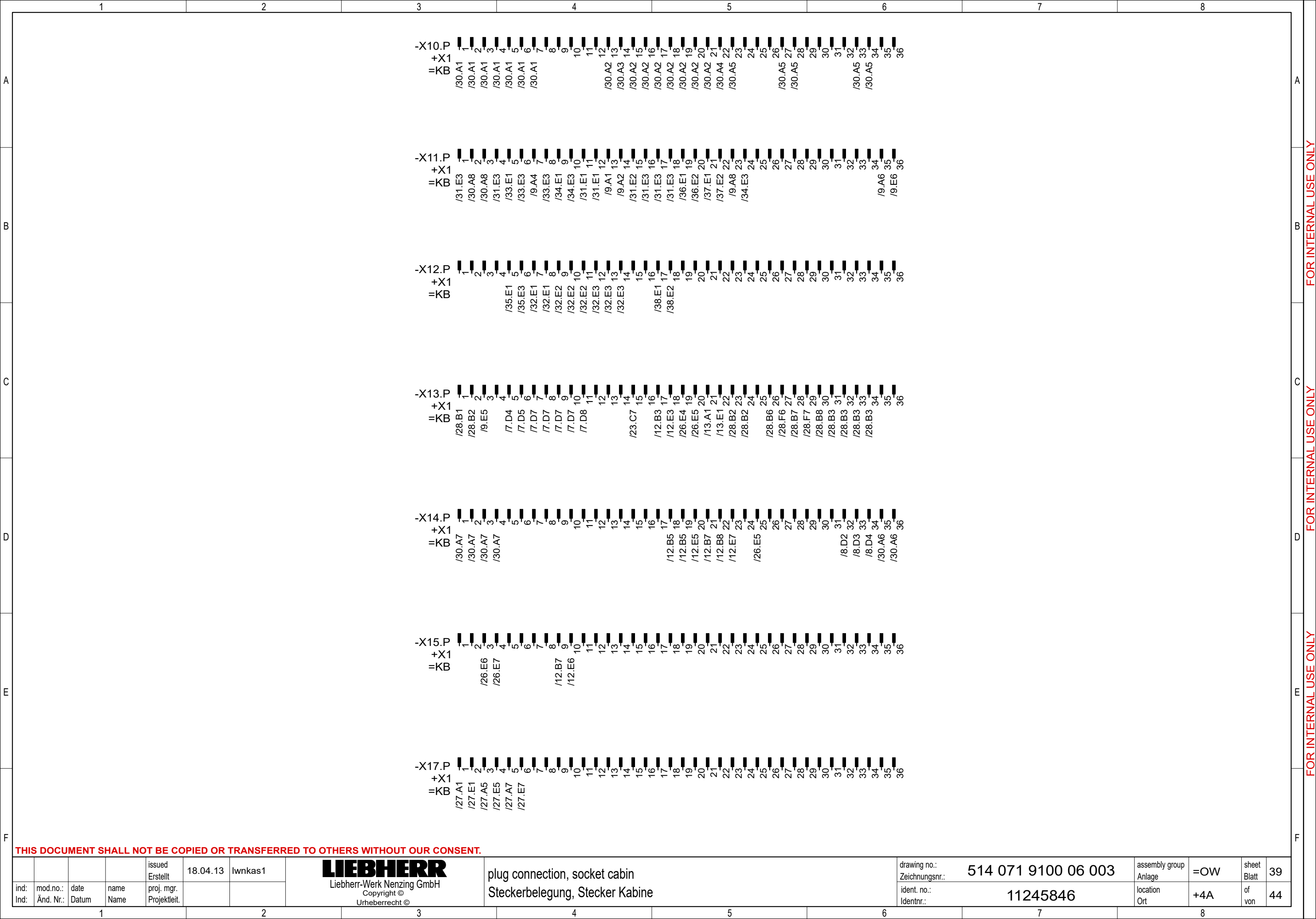
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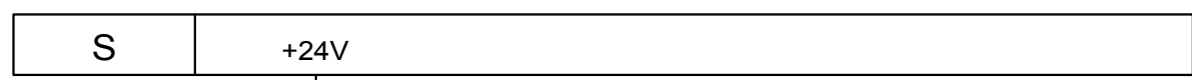
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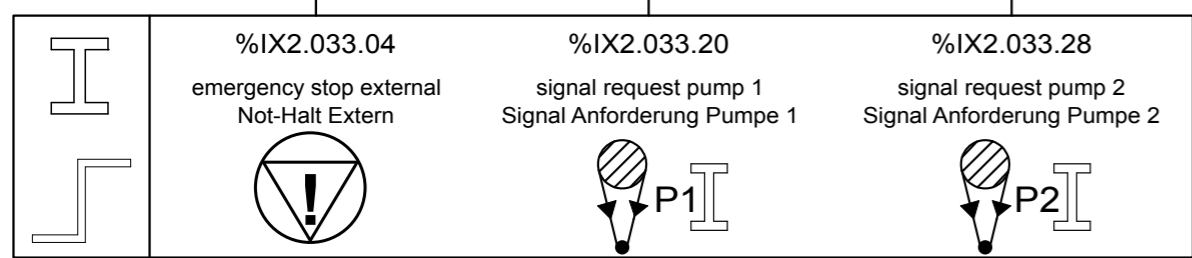
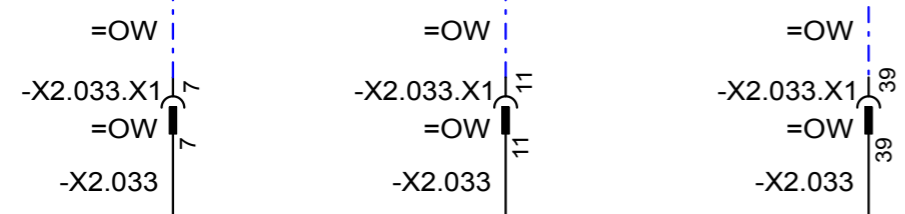
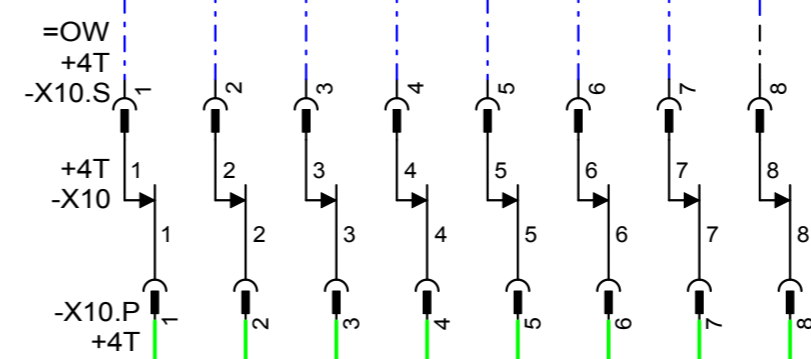
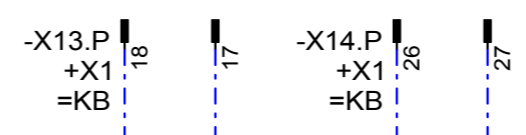
				issued Erstellt	18.04.13	lwnkas1	 Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	plug connection, socket cabin Steckerbelegung, Stecker Kabine	drawing no.:	514 071 9100 06 003	assembly group	=OW	sheet	39
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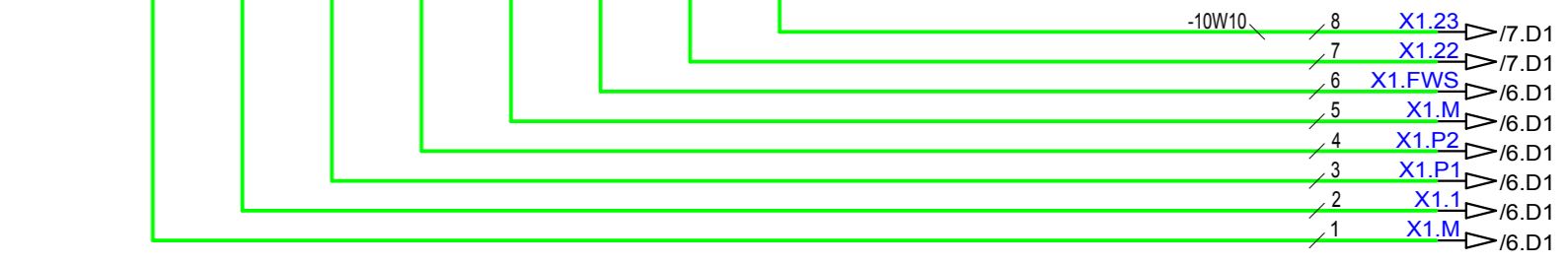


power supply 24VDC,
Stromversorgung 24VDC,
to fuse F55, LI
zur Sicherung F55, LI

opt. tg fast speed
Opt. Fahrwerkschnellgang



----- existing wiring
vorhandene Verdrahtung



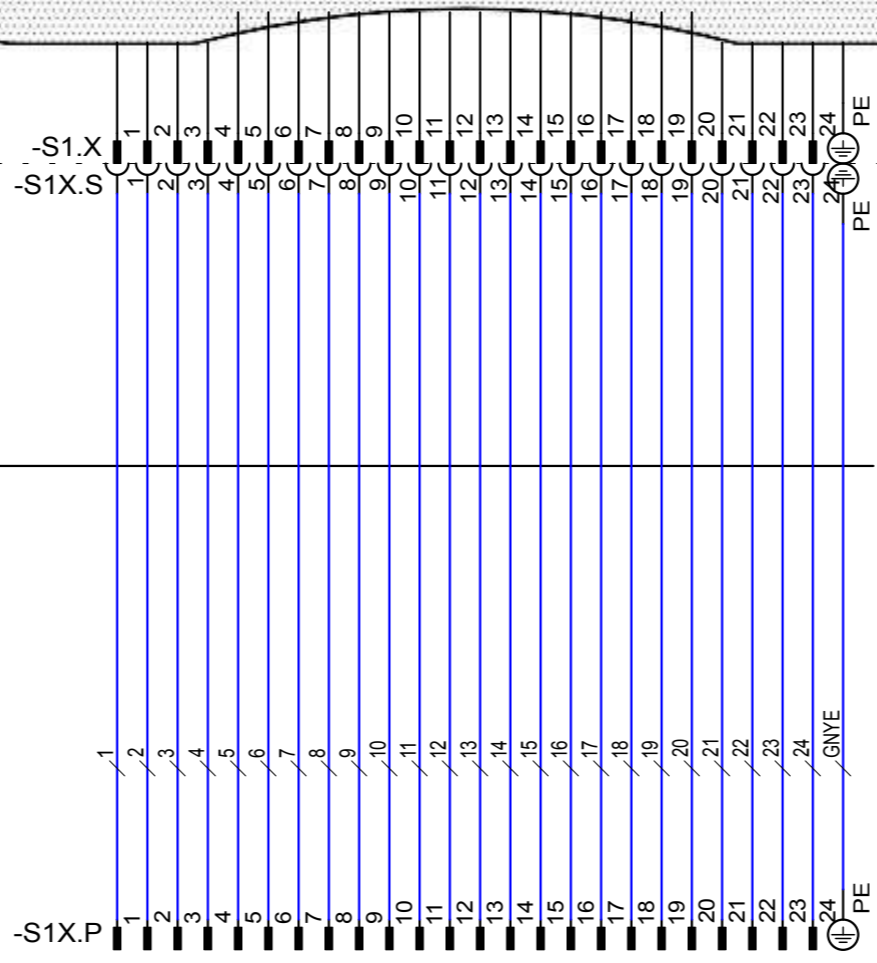
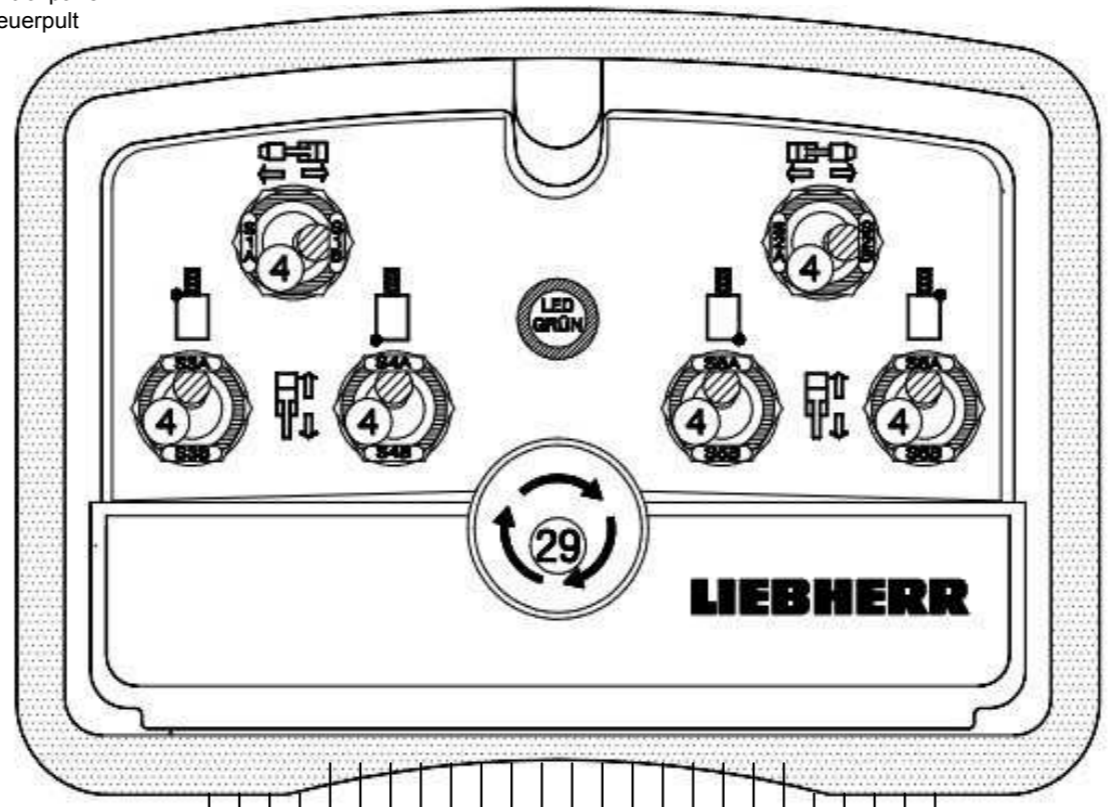
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ind:	mod.no.:	date	name	approved		
Ind:	Änd. Nr.:	Datum	Name	geprüft		



slip ring element, emergency stop
Schleifringkörper, Not-Halt

drawing no.:	519 037 9100 06 002	assembly group	=UW	sheet	5
Zeichnungsnr.:		Anlage		Blatt	
ident. no.:	11290237	location	+4A	of	13
Identnr.:		Ort		von	

-S1 control panel
Steuerpult

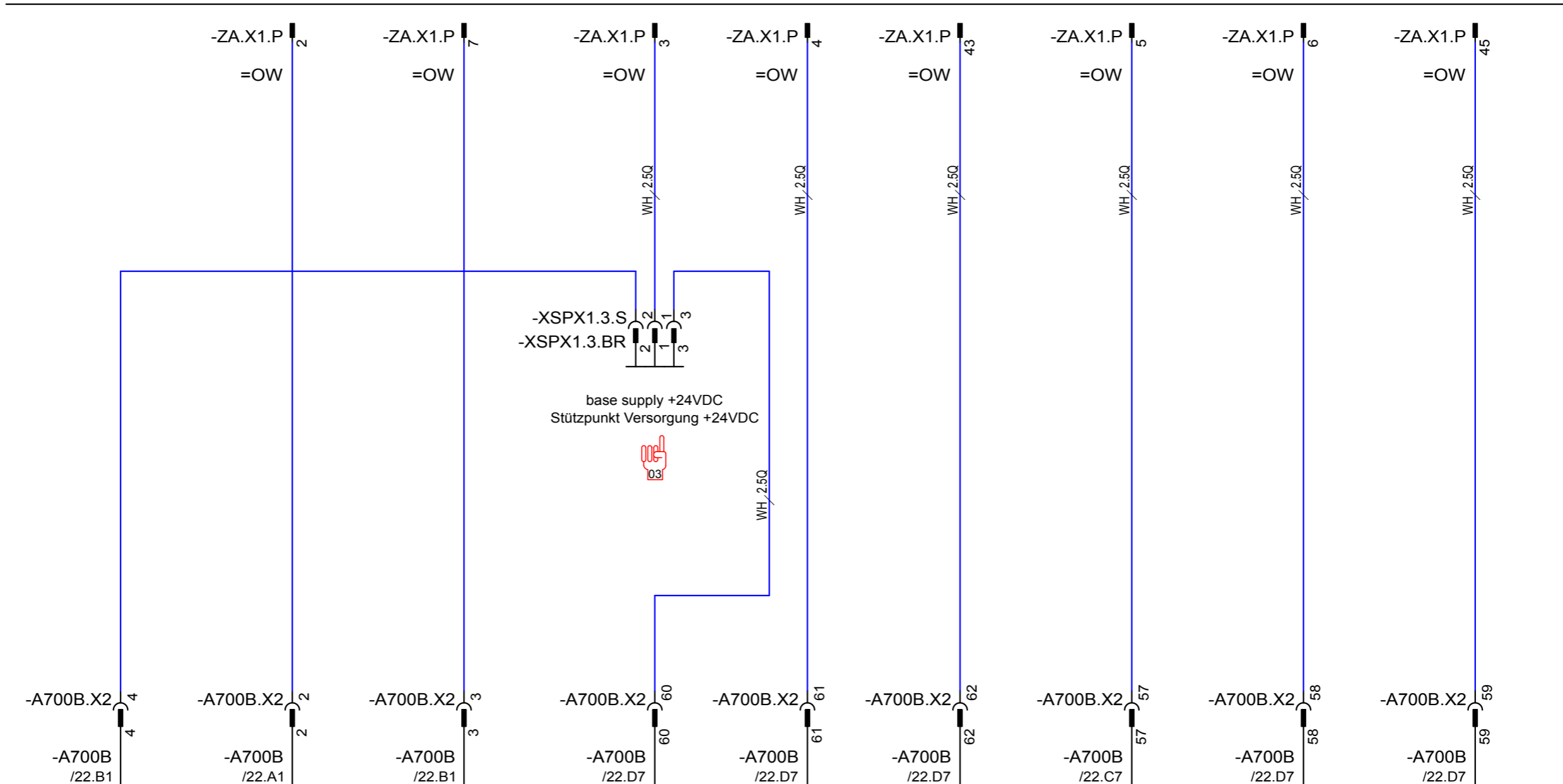


cable harness
Kabelstrang

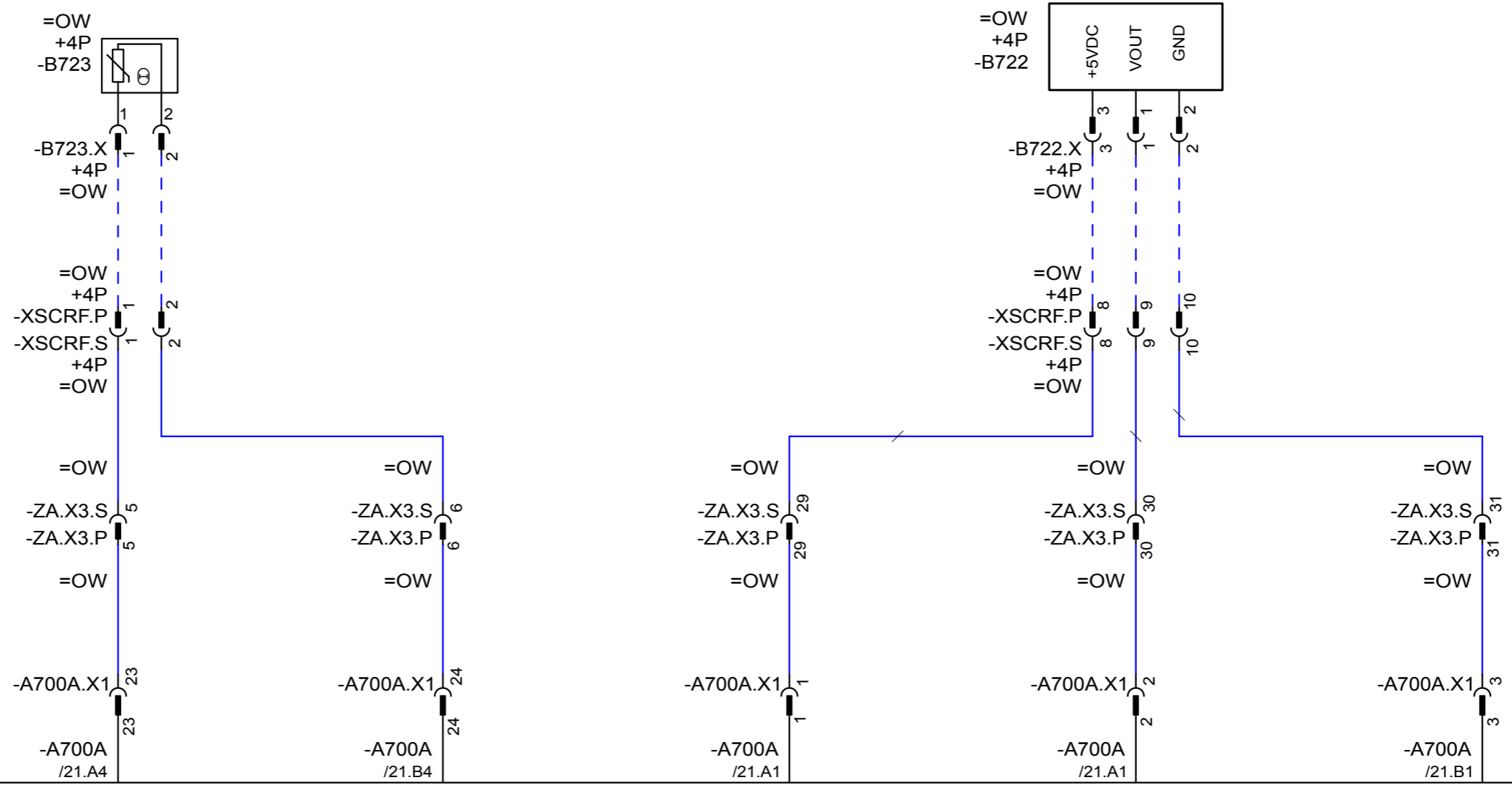
adapter connector superstructure
Übergabestecker Oberwagen

		issued Erstellt	12.02.13	lwnkas1	 Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	control panel for assembling Steuerpult für Montage	drawing no.: Zeichnungsnr.:	590 135 9000 06 000	assembly group Anlage	=OW	sheet Blatt	2
ind: Ind:	mod.no.: Änd. Nr.:	date Datum	name Name	approved geprüft				ident. no.: Identnr.:	11239083	location Ort	+4A	of von

adapter connector superstructure
Übergabestecker Oberwagen



LIDEC Plug B	KL30_ELEK	DI_KL15	KL_31_PWR	KL_30_PWR	KL_30_PWR	KL_30_PWR	KL_31_PWR	KL_31_PWR	KL_31_PWR
	ignition KL15 / emergency stop Zündung KL15 / Not-Halt	ignition KL15 Zündung KL15	battery - minus (KL31) PS2 Batterieminus (KL31) PS2	battery - plus (KL30) Batterieplus (KL30)	battery - plus (KL30) Batterieplus (KL30)	battery - plus (KL30) Batterieplus (KL30)	battery - minus (KL31) Batterieminus (KL31)	battery - minus (KL31) Batterieminus (KL31)	battery - minus (KL31) Batterieminus (KL31)



LIDEC Plug A	SCR-only	KL_31_PWR	TI-G1	VCC-G1	AI5V-G1	KL_31_PWR
	SCRoF	DOC upstream 1 temperature ground DOC Upstream 1 Temperatur Masse	DOC upstream 1 temperature signal DOC Upstream 1 Temperatur Signal	differential pressure switch SCRF 1 supply Differenzdruckschalter SCRF 1 Versorgung	differential pressure switch SCRF 1 signal Differenzdruckschalter SCRF 1 Signal	differential pressure switch SCRF 1 ground Differenzdruckschalter SCRF 1 Masse

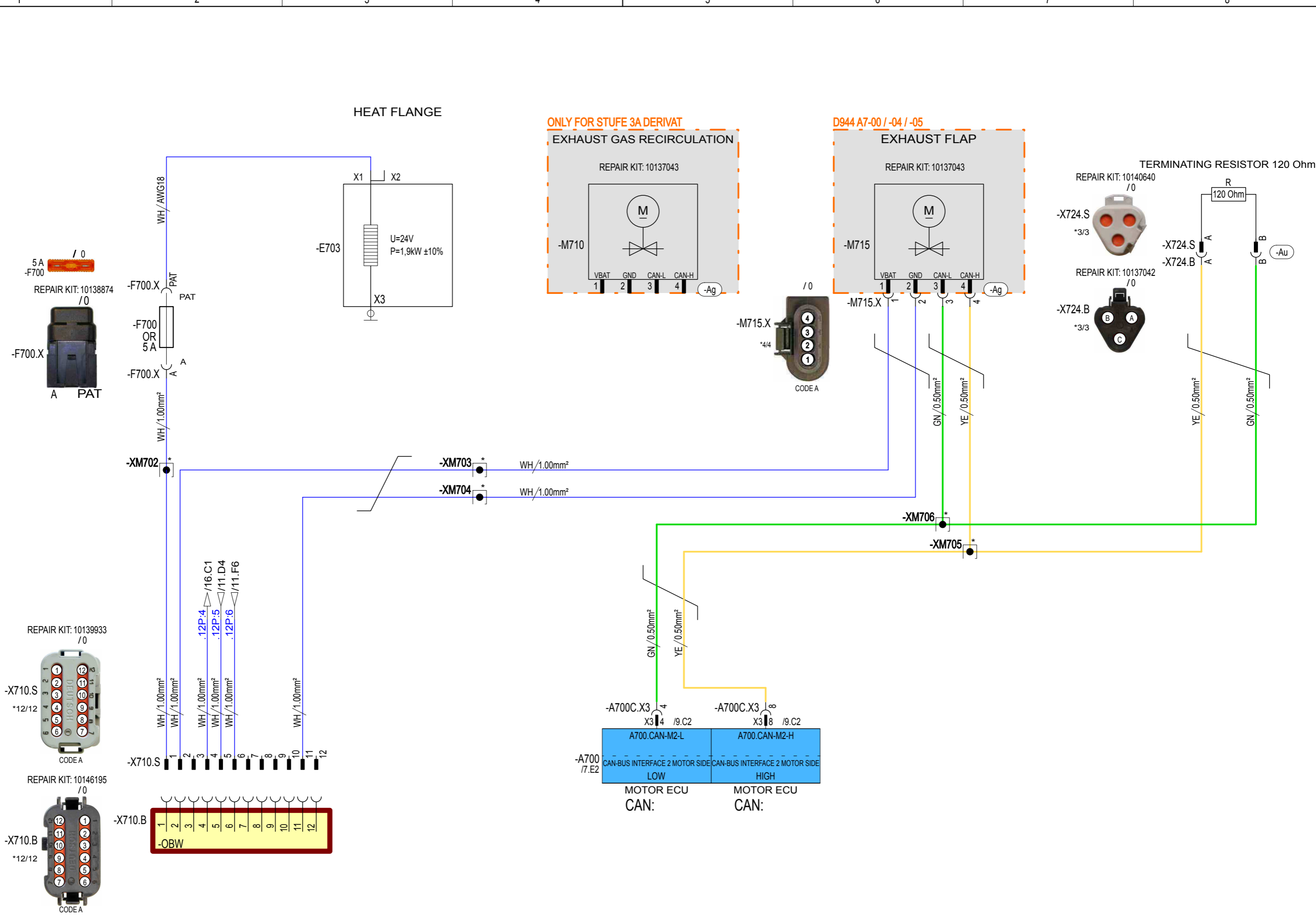
--- additional devices
Zusatzeinrichtungen

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 PROJECT: 10144883
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REPLACEMENT FOR	MARKED	Imbovs0	LIEBHERR	A3	DESIGNATION ELECTRICAL WIRING DIAGRAM	DESCRIPTION TABLE OF CONTENTS	ARTICLE CODE 10144882	SYSTEM =M	LOCATION +M
0	DATE	14.06.2017 08:49					DRAWING NUMBER 96 019 9307 90	INDEX 005	SHEET 2 FROM
CONFIDENTIAL	CHECKED	Imbbua0	FACTORY LMB						
	TECHNICAL REFEREE								

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REPLACEMENT FOR	MARKED	Imbovs0	LIEBHERR	A3	DESIGNATION ELECTRICAL WIRING DIAGRAM	DESCRIPTION INTERFACE CAN ACTUATOR, HEAT FLANGE, EXHAUST GAS RECIRCULATION, EXHAUST FLAP, TERMINATING RESISTOR 120 Ohm	ARTICLE CODE	SYSTEM	LOCATION
0	DATE	14.06.2017 08:49					10144882	=M	+M
CONFIDENTIAL	CHECKED	Imbbua0	FACTORY LMB				DRAWING NUMBER	INDEX	SHEET 12 FROM 19
	TECHNICAL REFEREE						96 019 9307 90	005	ARTICLE CODE: 10144882 VERSION: 06.1 14.06.2017 08:49

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=SYSTEM	
=U	UNDERCARRIAGE
=D	TURNTABLE
=A	BOOM
=F	ROAD CHASSIS (CRAWLER)
=M	ENGINE
=G	EQUIPMENT
+INSTALLATION LOCATION UNDERCARRIAGE	
+H	OPERATOR S CAB
+F	TRAVEL VALUE
+S	ELECTRICAL CABINET
+M	ENGINE
+INSTALLATION LOCATION TURNTABLE / BOOM	
+H	CAB
+D	TURNTABLE
+A	BOOM
+S	ELECTRICAL CABINET
+M	ENGINE
WIRING	
*	STAR POINT - WIRING REGISTER
<	CIRCLE WIRING
§	FORCED WIRING

MEANS OF PRODUCTION DIN EN61346-1	
-A	COMPONENTS, ELECTRONIC CONTROL UNIT
-B	FILLER, SENSOR, SENSOR
-C	CONDENSER
-D	SAVE
-E	LIGHTING, HEATING
-F	FUSE
-G	ALTERNATOR, GENERATOR, BATTERY
-H	INDICATOR LIGHTS, REPORTING DEVICES
-K	RELAY, CONTACTORS
-L	INDUCTIVITY
-M	ENGINE
-N	TRANSMITTER, AMPLIFIER
-P	MEASURING EQUIPMENT, TESTING DEVICES
-Q	JUMPER WIRES HIGH VOLTAGE CURRENT
-R	RESISTORS
-S	SWITCH
-T	TRANSFORMERS
-U	CONVERTER, CONVERTERS, MODULATORS
-V	DIODES, TRANSISTOR
-W	CABLE STRAND DESIGNATION
-X	CONNECTOR, PLUG, TERMINAL BLOCK
-Y	VALVES
-Z	AUXILIARY PARTS ...

DESIGNATION DIN 72552	
15	PLUS SWITCHED AFTER IGNITION SWITCH
30	PLUS BATTERY, DIRECT
31	RETURN LINE BATTERY, MINUS / GROUND DIRECT
50	STARTER, STARTER CONTROL, DIRECT
B, B-	BATTERY, PLUS / MINUS
D, D-	DYNAMO PLUS / MINUS
DF, DF1.2	DYNAMO, FIELD, FIELD1, FIELD2,
AC	GENERATOR CONNEXION
U / V / W	CLAMP GENERATOR

MANUFACTURER DESIGNATION	
50m	STARTER SYNCHRONISATION
50n	STARTER SYNCHRONISATION
50i	STARTER SYNCHRONISATION
50k	STARTER SYNCHRONISATION
I / L	CHARGE INDICATOR LAMP
BS	ON-BORD COMPUTER
DFM	UTILIZATION
30b	PLUS BATTERY AFTER MASTER SWITCH

MEANS OF PRODUCTION: MAKER	
-AF	FUSE MODULE
-WL	CABLE STRAND DESIGNATION
-XMSP	MASS GROUPING BLOCK, GROUND SCREW
-XM	SOLDER POST

FUSES		
CURRENT	COLORS	
2	GY	GREY
3	VT	VIOLET
5	LBN	LIGHT BROWN
7.5	BN	BROWN
10	RD	RED
15	LBU	LIGHT BLUE
20	YE	YELLOW
25	LGY	LIGHT GRAY
30	GN	GREY
35	BU	BLUE

WIRE COLORS DIN IEC 757		
OLD	NEW	
gr	GY	GREY
vi	VT	VIOLET
rs	PK	PINK
br	BN	BROWN
rt	RD	RED
bl	BU	BLUE
ge	YE	YELLOW
gn	GN	GREEN
sw	BK	BLACK
or	OG	ORANGE
ws	WH	WHITE

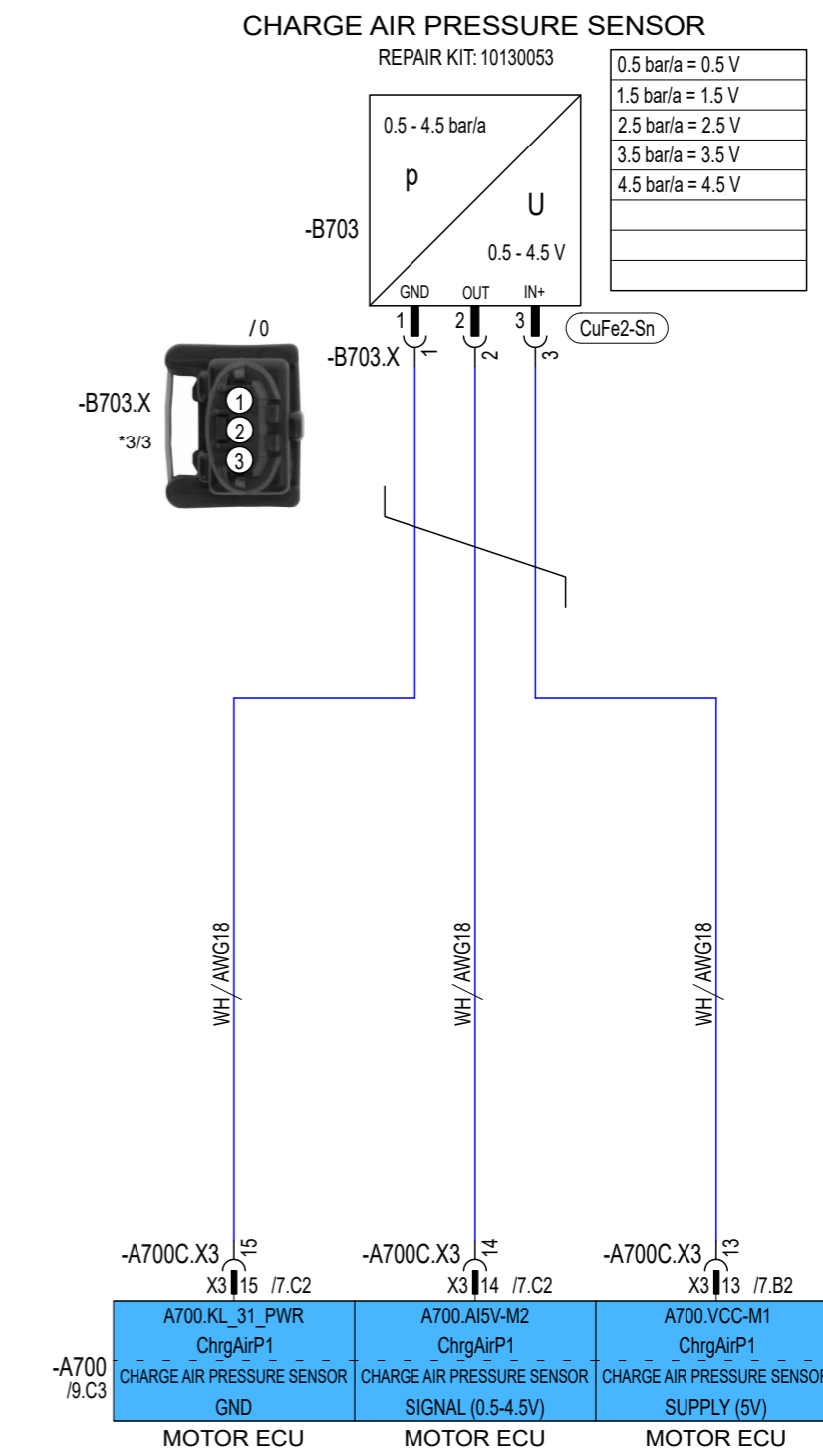
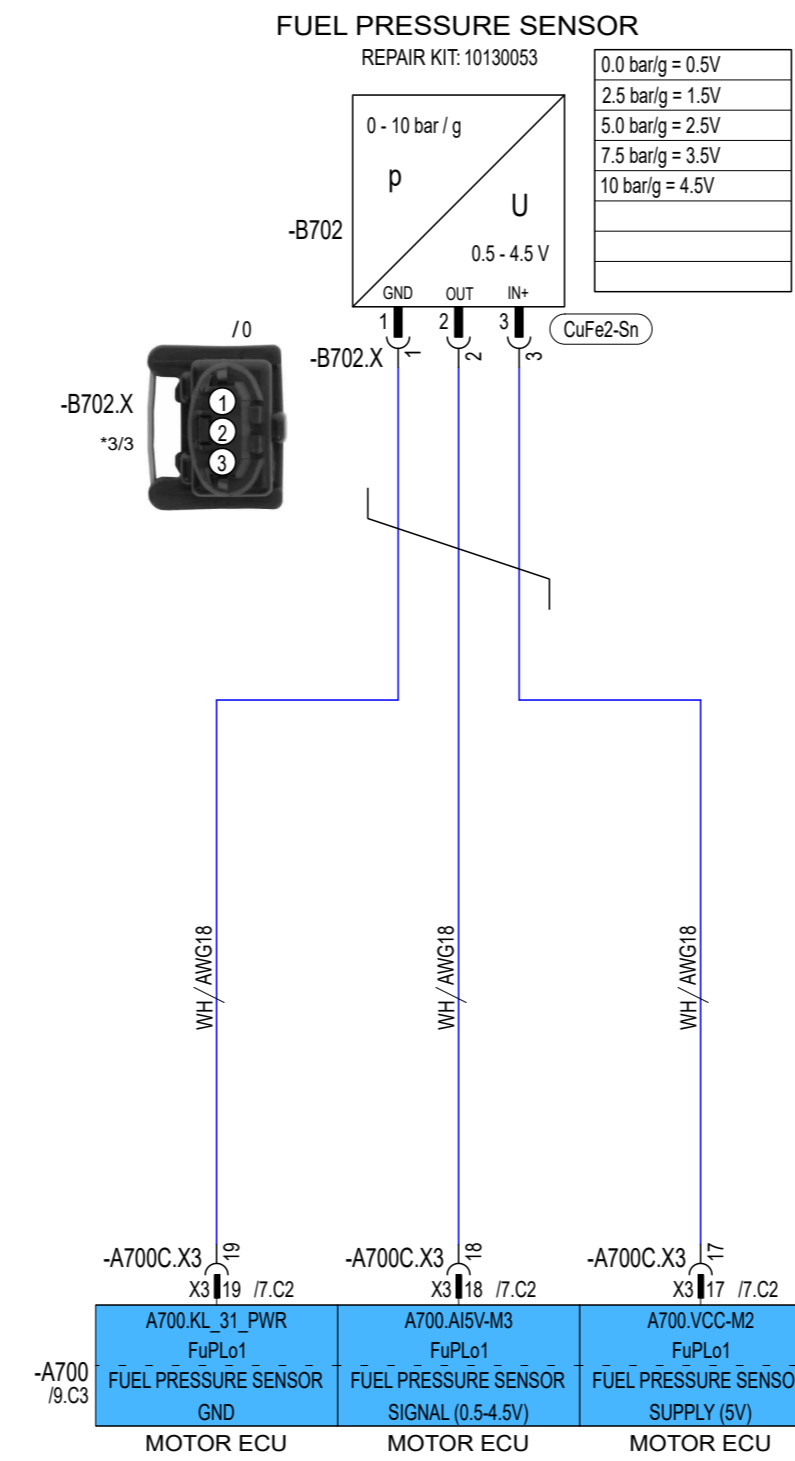
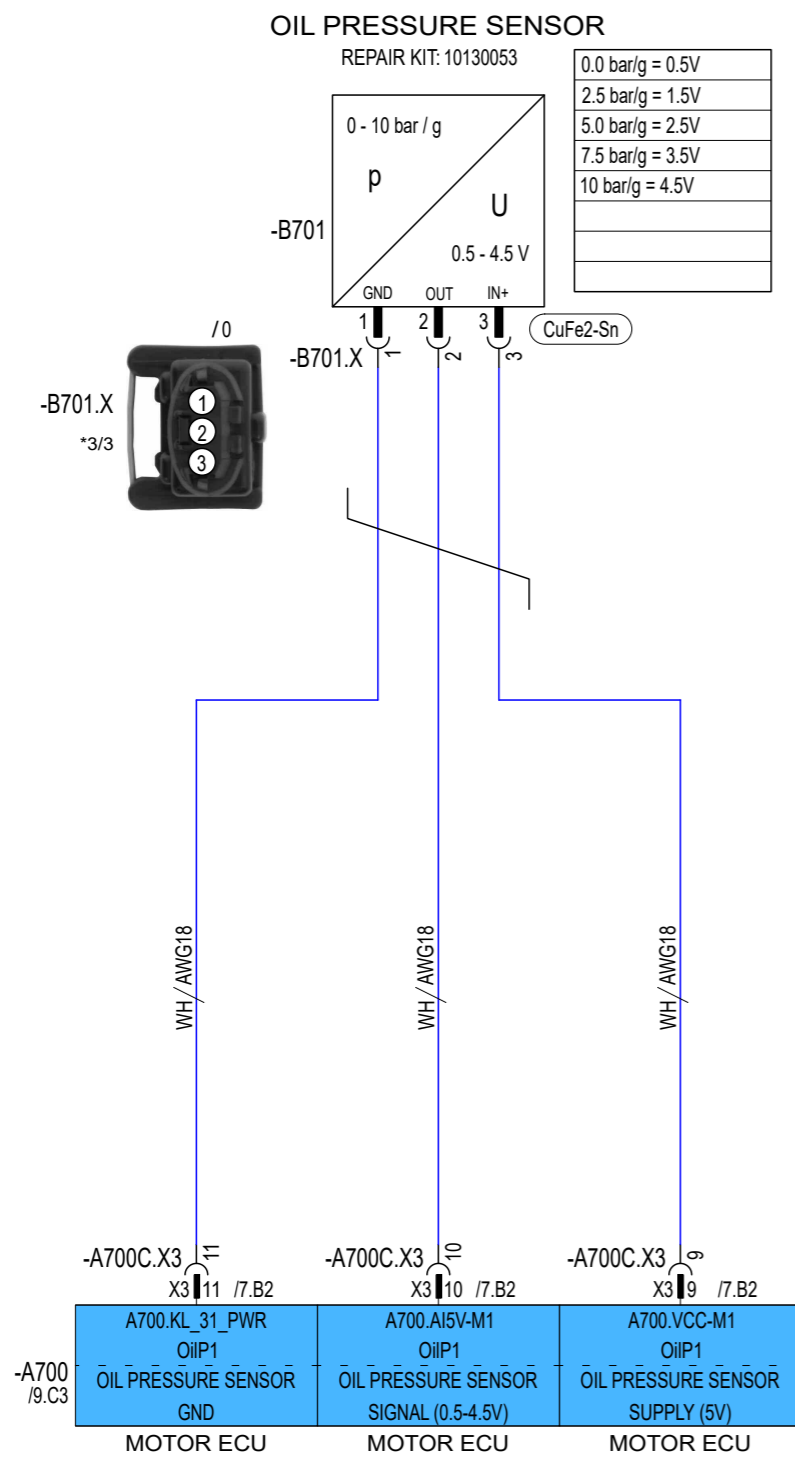
EXAMPLE ITEM DESIGNATION (BMK)								
=	SYSTEM	+	INSTALLATION LOCATION	-	ITEM DESIGNATION	COUNTING NUMBER	:	CONNECTION
=	M	+	M	-	B	702.X	:	1

EXAMPLE SIGNAL CROSS REFERENCE						
SIGNAL	.	FUSE	OR	SIGNAL	.	FUSE
		30b.F390				+24.L1

MODIFICATIONS					
VERSION	DATE	ADAPTATIONER	CHECKED	SHEET	DESCRIPTION
001	07.11.2014	Imbbor0	Imbbua0	10	PIN F705.X CODING MODIFICATION
002	16.06.2016	Imbovs0	Imbbua0	ALL	ELECTRICAL WIRING DIAGRAM TO UPDATE WITH TIER 4 AND STUFE 3A DERIVAT
003	03.02.2017	Imbovs0	Imbbua0	11+12	FUSES 5A
004	19.06.2017	Imbovs0	Imbbua0	1 / 4	GRAPHICAL UPDATE, STANDARD STAGE V ADDED
005	07.05.2018	Imbovs0	Imbbua0	4 / 5 / 6 / 11	COMPRESSOR FOR AIR CONDITIONER OPTIONAL
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REPLACEMENT FOR	MARKED	Imbovs0	LIEBHERR	A3	DESIGNATION ELECTRICAL WIRING DIAGRAM	DESCRIPTION KEY TO SYMBOLS, MODIFICATION SHEET	ARTICLE CODE 10144886	SYSTEM =M	LOCATION +M
0	DATE	15/05/2018 14:43					DRAWING NUMBER 96 020 9307 90	INDEX 005	SHEET 3 FROM 21
CONFIDENTIAL	CHECKED	Imbbua0	FACTORY LMB						
	TECHNICAL REFEREE								

TYPE MOTOR_SPL
PROJECT: 10144887
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REPLACEMENT FOR	MARKED	Imbovs0	LIEBHERR	A3	DESIGNATION	DESCRIPTION	ARTICLE CODE	SYSTEM	LOCATION
0	DATE	15/05/2018 14:43					10144886	=M	+M
CONFIDENTIAL	CHECKED	Imbbua0	FACTORY LMB		ELECTRICAL WIRING DIAGRAM	OIL PRESSURE SENSOR, FUEL PRESSURE SENSOR, CHARGE AIR PRESSURE SENSOR	DRAWING NUMBER	INDEX	SHEET 13 FROM 21
	TECHNICAL REFEREE						96 020 9307 90	005	ARTICLE CODE: 10144886 VERSION: 15/05/2018 14:43

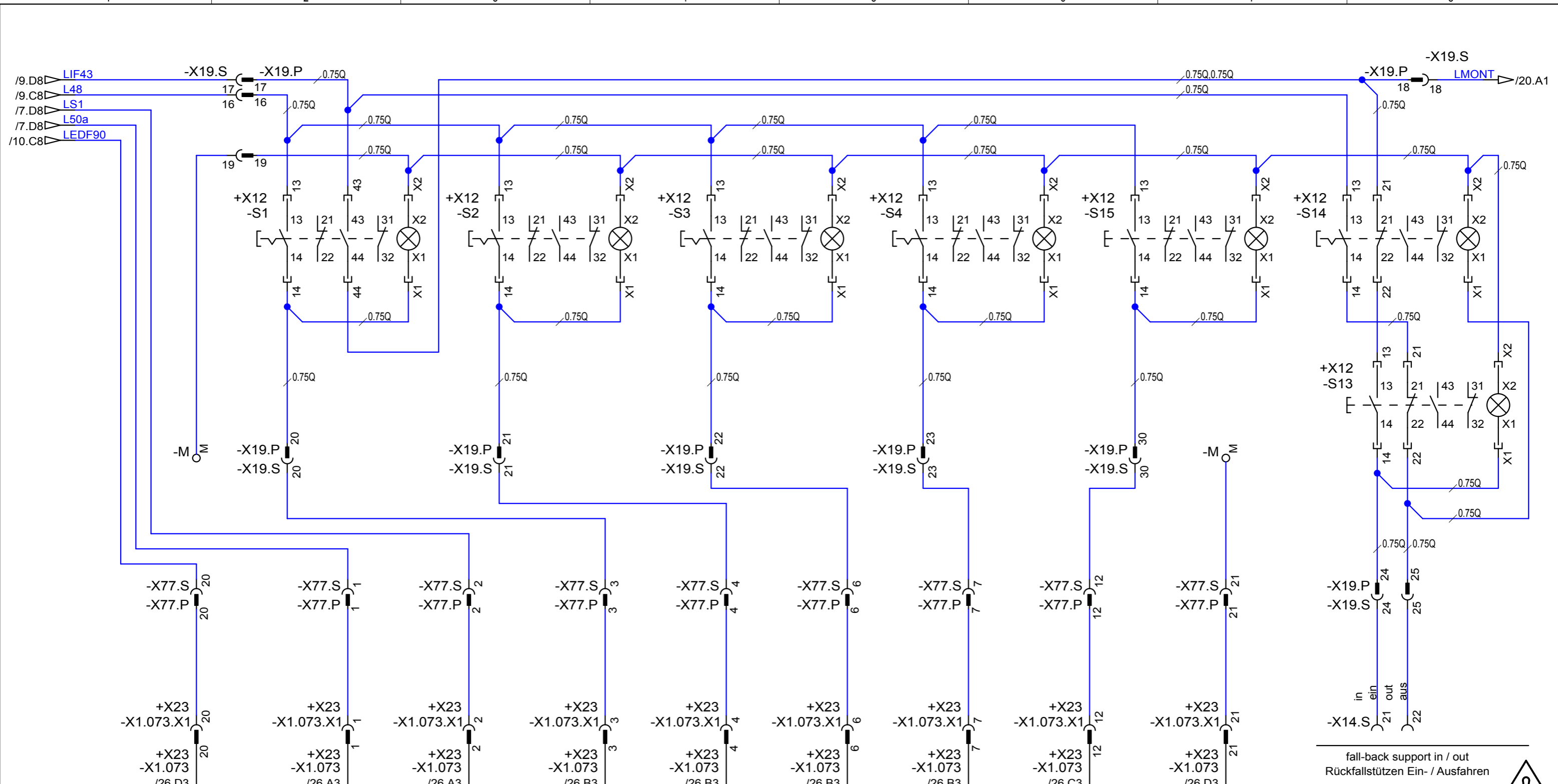
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fall-back support in / out
Rückfallstützen Ein- / Ausfahren

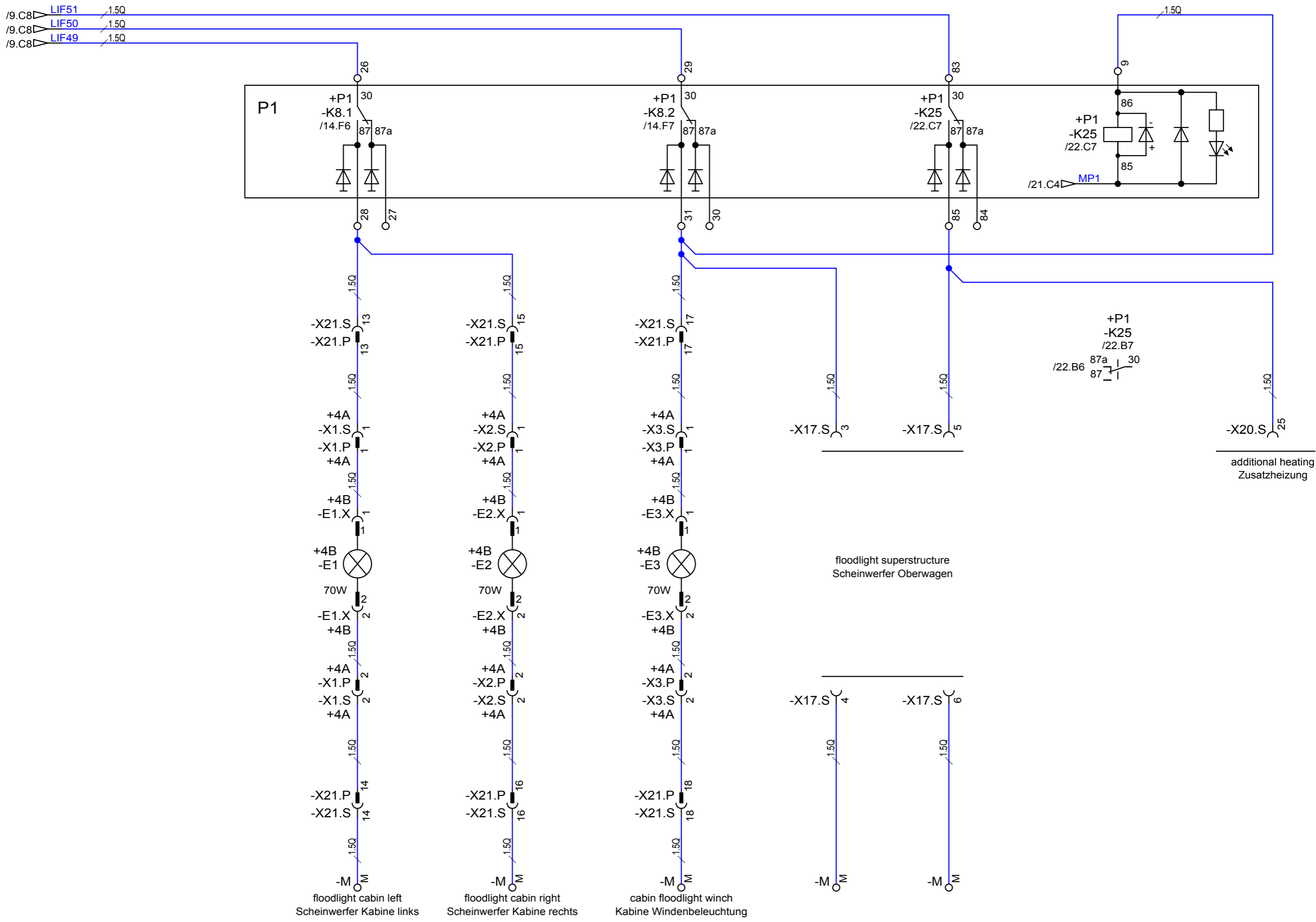
hose rig in / out
Schlauchumlenkung Ein- / Ausfahren



	%IX1.029.20 feedback relay LED+ Rückmessung Relais LED+		%IX1.029.01 engine start Motorstart		%IX1.029.02 entry lever closed Einstiegshebel geschlossen		%IX1.029.03 set up Montagebetrieb		%IX1.029.04 unsecured free fall Ungesicherter Freifall		%IX1.029.06 bypass LML Überbrückung LMB		%IX1.029.07 interlock control Interlocksteuerung		%IX1.029.12 mode selection Vorwahl Betriebsart		0/24V ground for the inputs Masse für die Eingänge
--	--	--	--	--	--	--	--	--	---	--	--	--	---	--	---	--	---

depends on type of machine
abhängig vom Gerätetyp



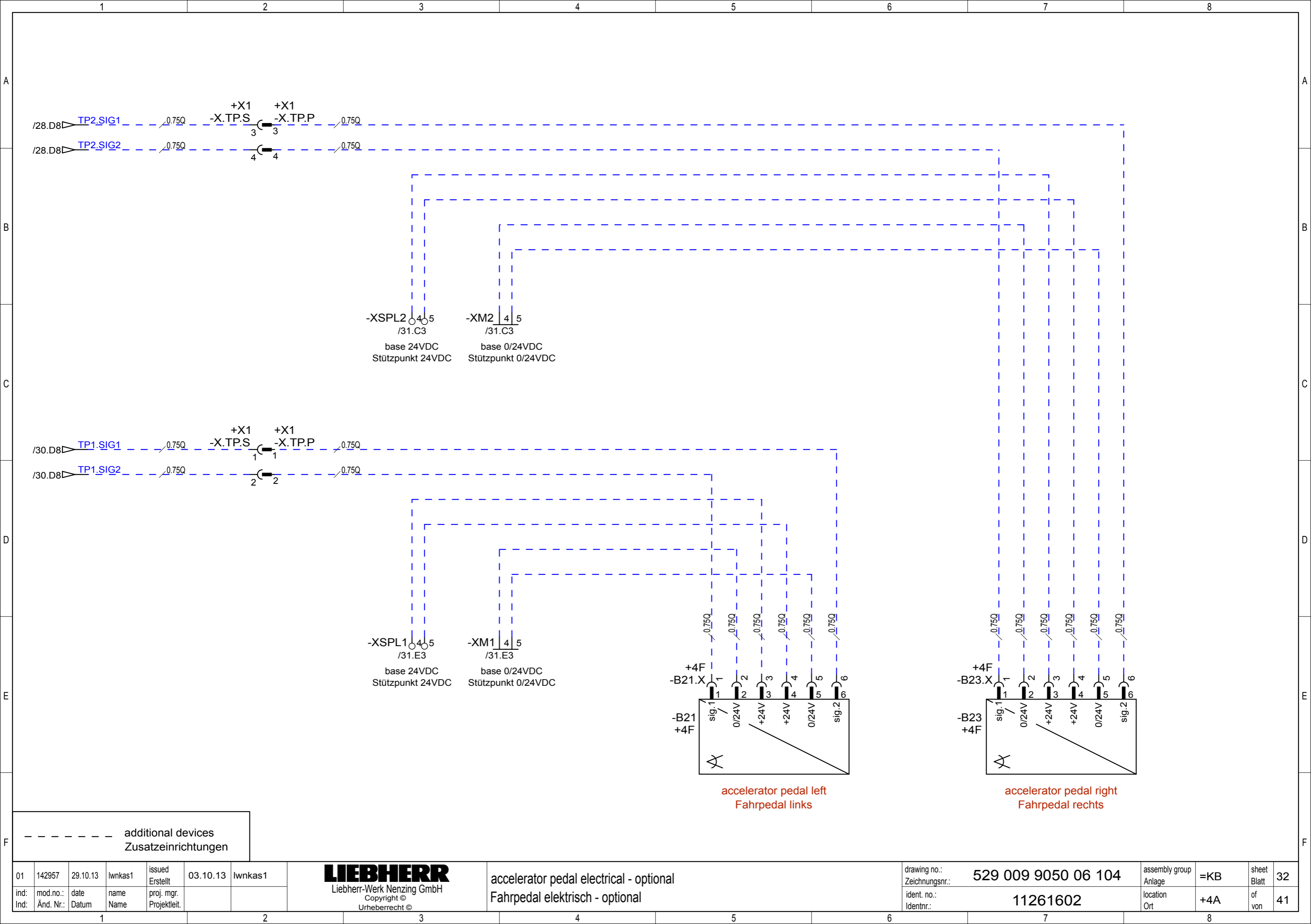


ind:	mod.no.:	date	name	proj. mgr.	issued	03.10.13	lwnkas1
Ind:	Änd. Nr.:	Datum	Name	Projektleit.			



lighting
Beleuchtung

drawing no.:	529 009 9050 06 104	assembly group	=KB	sheet	22
Zeichnungsnr.:		Anlage		Blatt	
ident. no.:	11261602	location	+X1	of	41
Identnr.:		Ort		von	



----- additional devices
Zusatzeinrichtungen

accelerator pedal left
Fahrpedal links

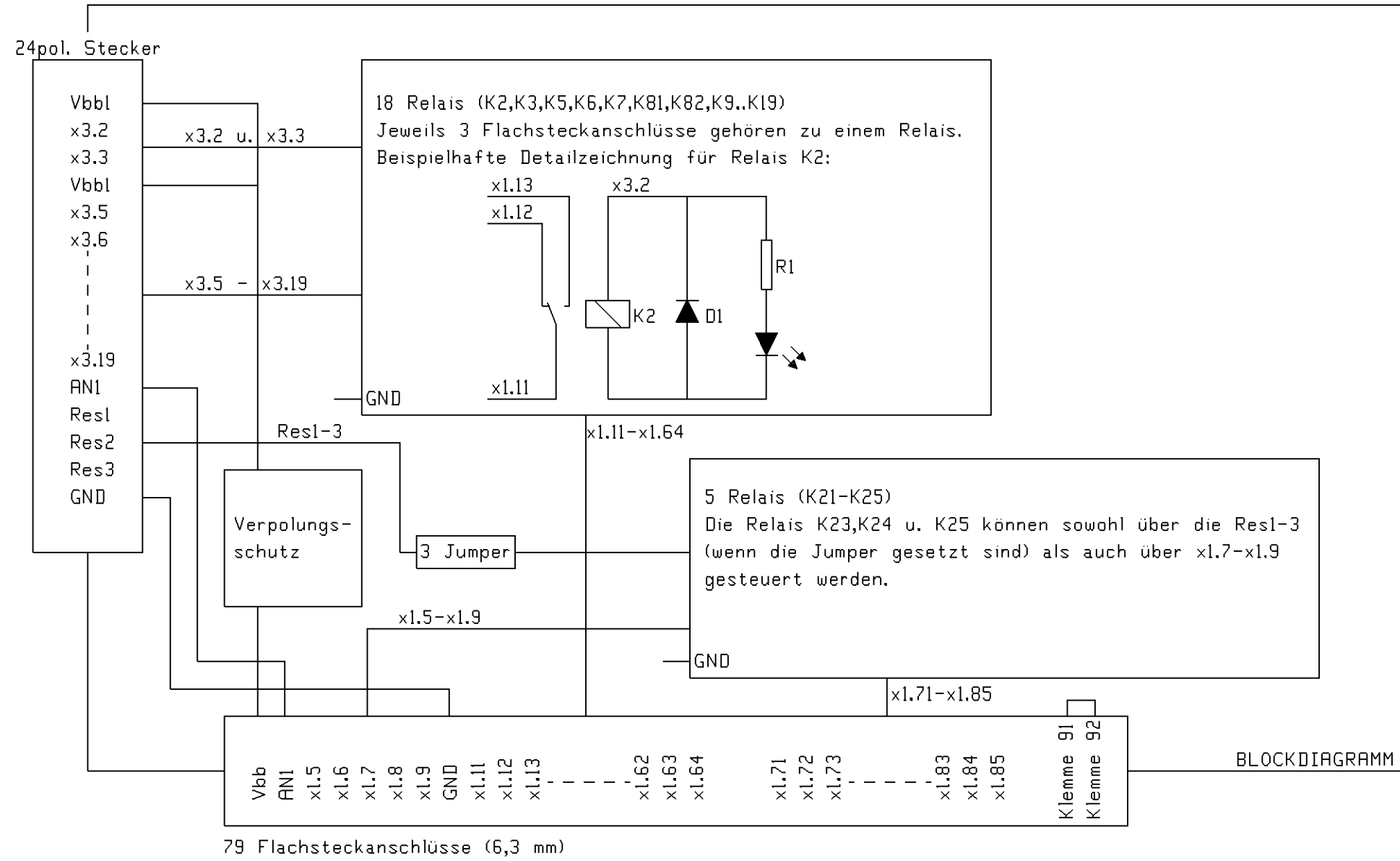
accelerator pedal right
Fahrpedal rechts

01	142957	29.10.13	lwncas1	issued Erstellt	03.10.13	lwncas1
ind:	mod.no.:	date	name	proj. mgr.		
Ind:	Änd. Nr.:	Datum	Name	Projektleit.		

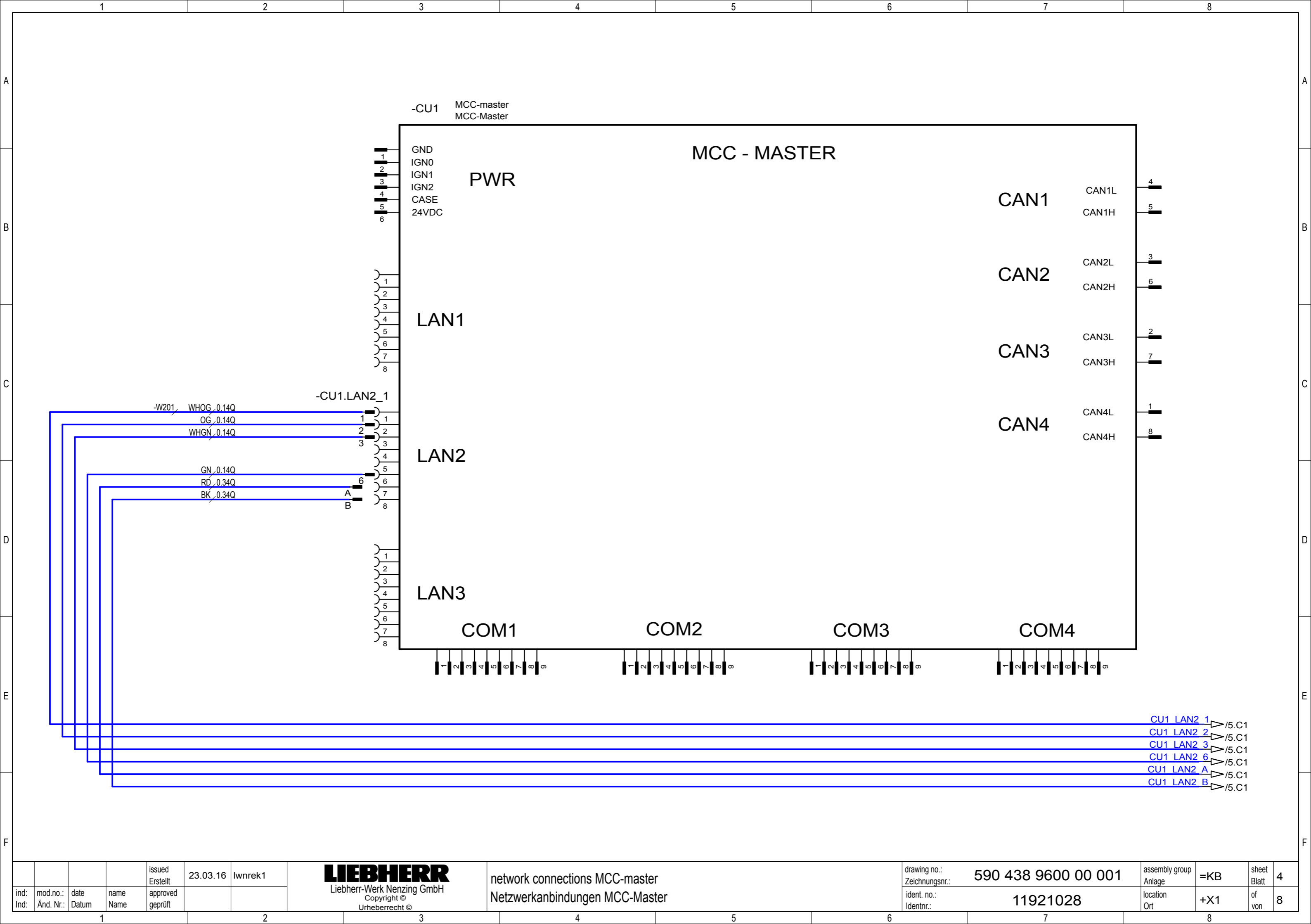


accelerator pedal electrical - optional
Fahrpedal elektrisch - optional

drawing no.:	529 009 9050 06 104	assembly group	=KB	sheet	32
Zeichnungsnr.:		Anlage		Blatt	
ident. no.:	11261602	location	+4A	of	41
Identnr.:		Ort		von	



modification index Änderungsindex																			
revision Revision 1		revision Revision 2		revision Revision 3		revision Revision 4		revision Revision 5		revision Revision 6		revision Revision 7		revision Revision 8		revision Revision 9		revision Revision 10	
date Datum	01.08.13	date Datum	08.05.14	date Datum		date Datum		date Datum		date Datum		date Datum		date Datum		date Datum		date Datum	
mod.no.: Änd. Nr.:	138995	mod.no.: Änd. Nr.:	150712	mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:		mod.no.: Änd. Nr.:	
mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten		mod./pages Änder./Seiten	
1		1																	
2		3																	
6		6																	



-CU1 MCC-master
MCC-Master

MCC - MASTER

PWR
GND
IGN0
IGN1
IGN2
CASE
24VDC

LAN1

LAN2

LAN3

COM1

COM2

COM3

COM4

CAN1

CAN2

CAN3

CAN4

CAN1L

CAN1H

CAN2L

CAN2H

CAN3L

CAN3H

CAN4L

CAN4H

-W201, WHOG, 0.14Q

OG, 0.14Q

WHGN, 0.14Q

GN, 0.14Q

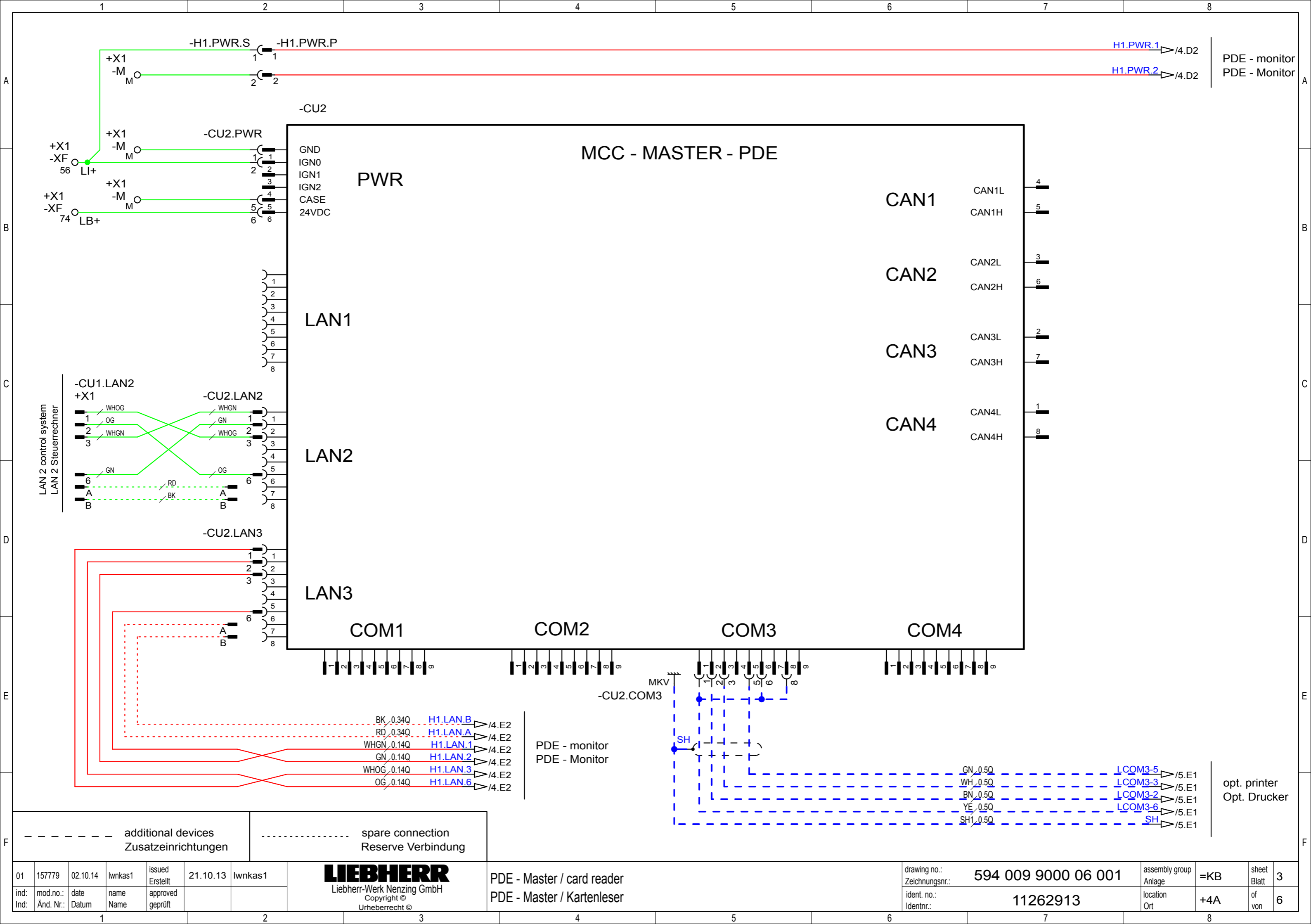
RD, 0.34Q

BK, 0.34Q

-CU1.LAN2_1

- CU1 LAN2 1 ▽ /5.C1
- CU1 LAN2 2 ▽ /5.C1
- CU1 LAN2 3 ▽ /5.C1
- CU1 LAN2 6 ▽ /5.C1
- CU1 LAN2 A ▽ /5.C1
- CU1 LAN2 B ▽ /5.C1

		issued	23.03.16	lwnrek1	 Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	network connections MCC-master		drawing no.: 590 438 9600 00 001		assembly group	=KB	sheet	4
ind:	mod.no.:	date	name	approved		Netzwerkanbindungen MCC-Master		Zeichnungsnr.: 11921028		Anlage	+X1	Blatt	of
Ind:	Änd. Nr.:	Datum	Name	geprüft			Identnr.:		Ort		von		



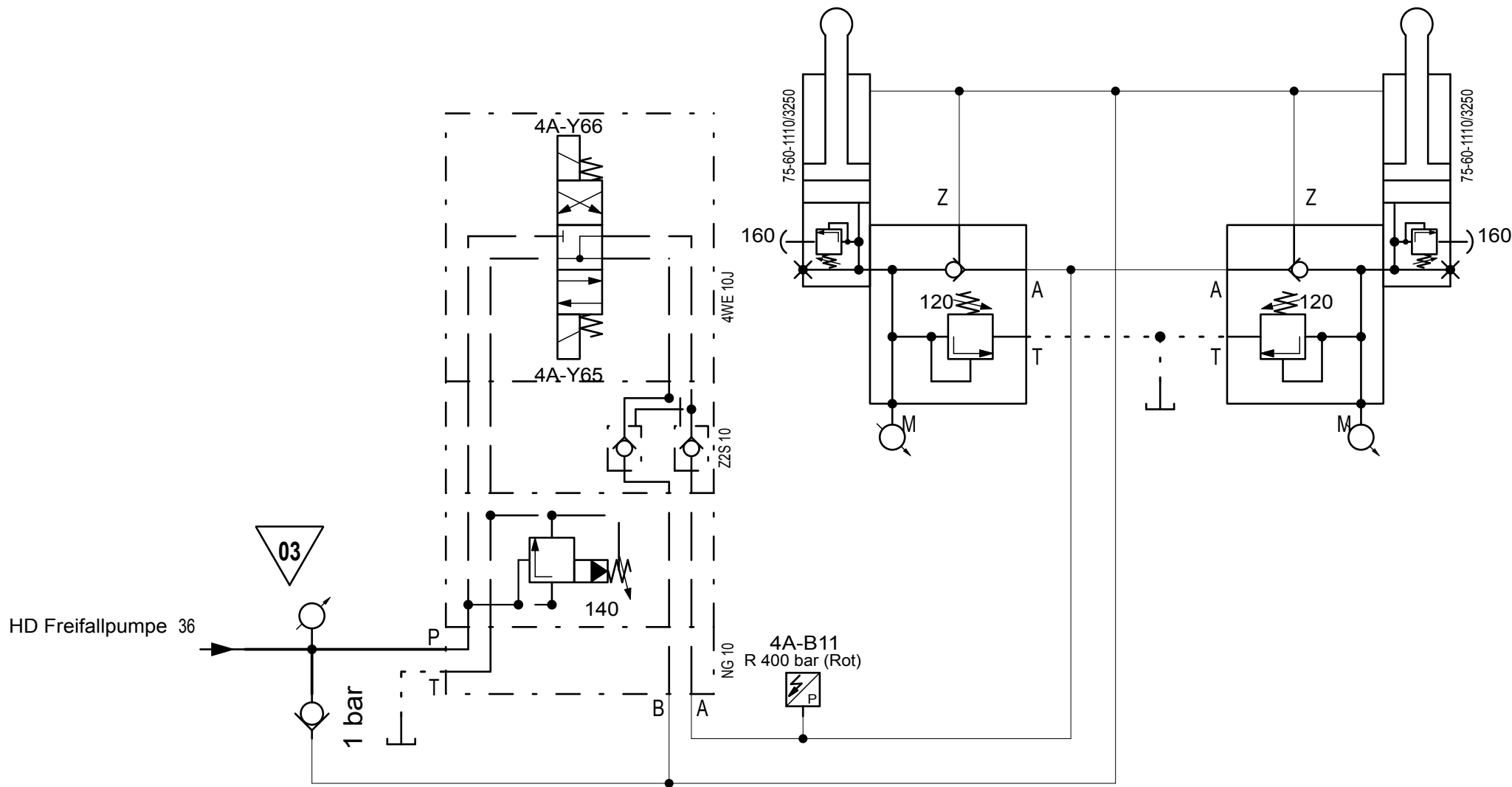
--- additional devices
 Zusatzeinrichtungen

..... spare connection
 Reserve Verbindung

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ind:	mod.no.:	date	name	approved geprüft			
Ind:	Änd. Nr.:	Datum	Name				

PDE - Master / card reader
 PDE - Master / Kartenleser

drawing no.:	594 009 9000 06 001	assembly group	=KB	sheet	3
Zeichnungsnr.:		Anlage		Blatt	
ident. no.:	11262913	location	+4A	of	6
Identnr.:		Ort		von	



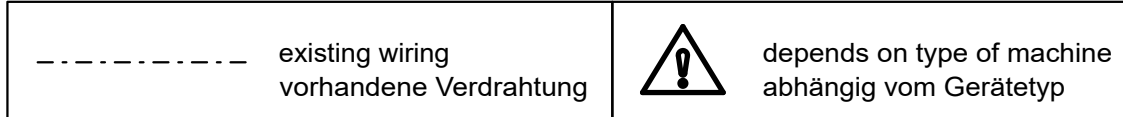
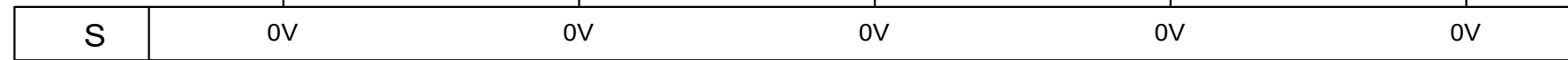
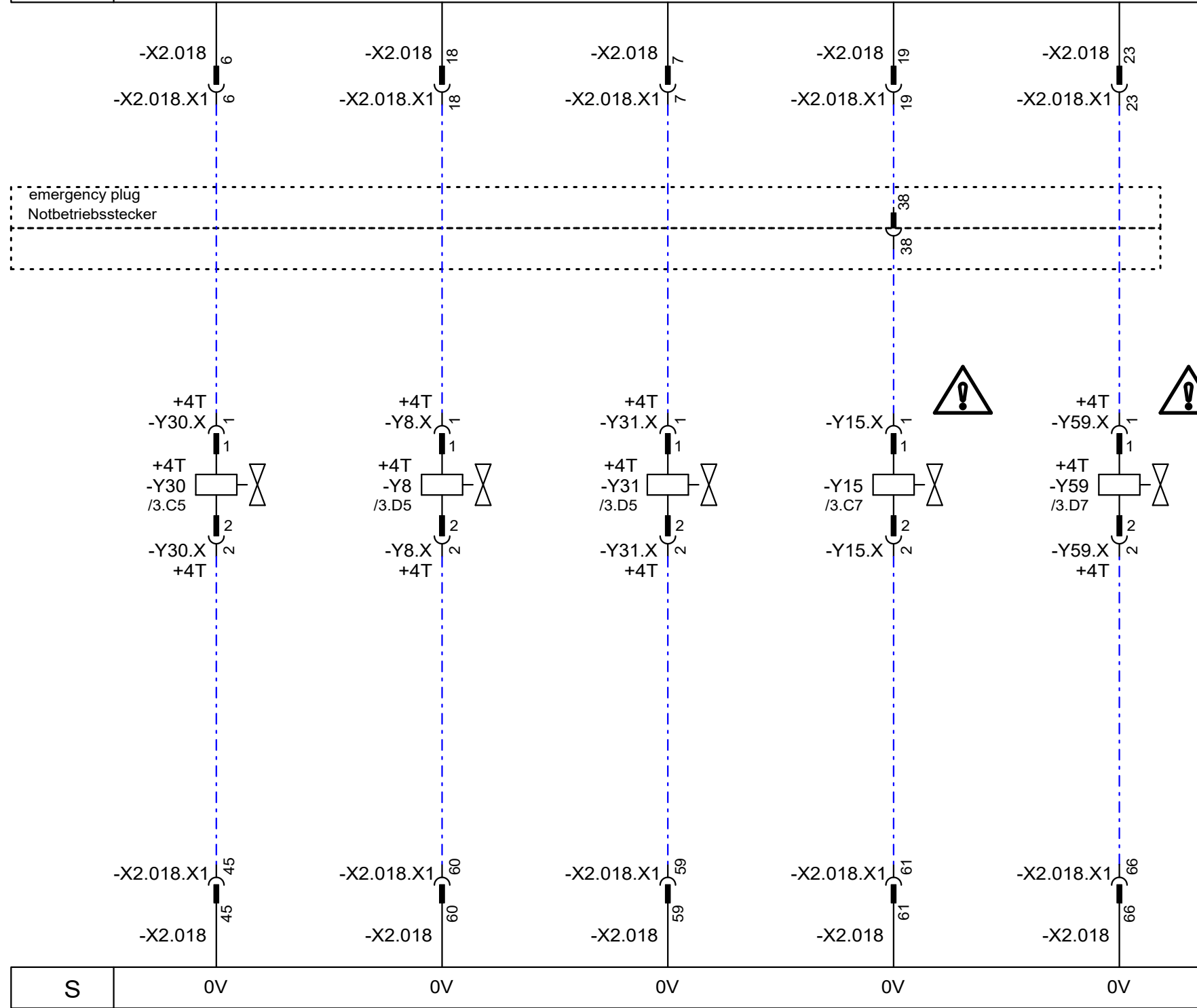
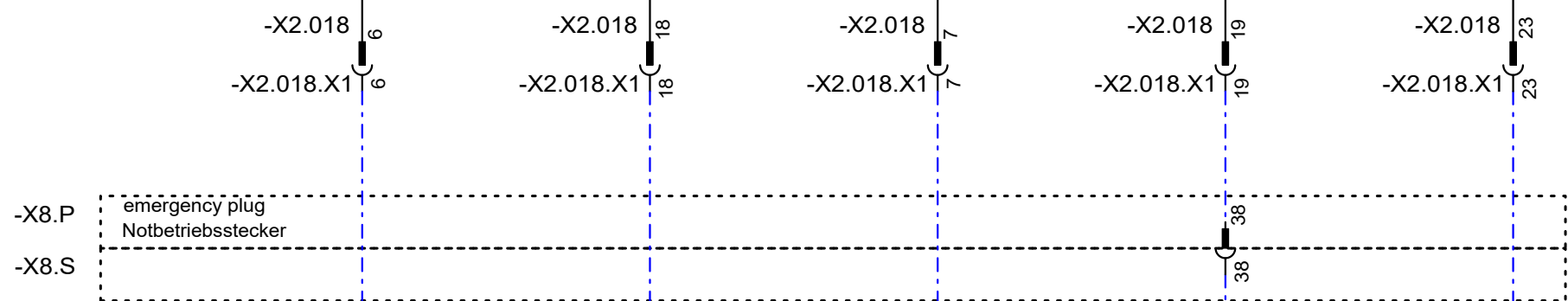
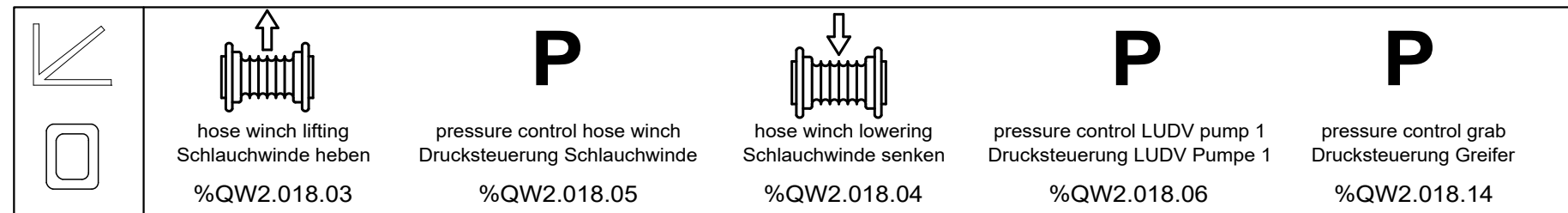
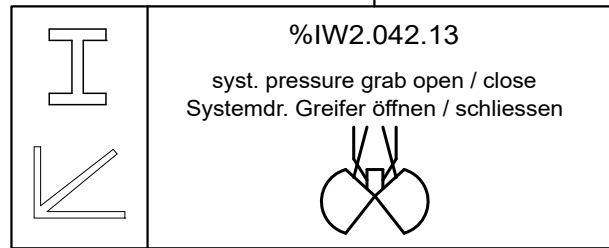
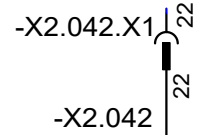
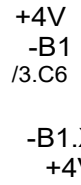
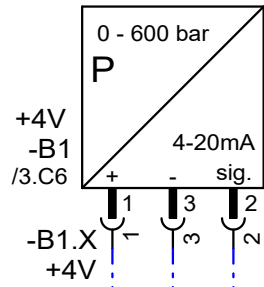
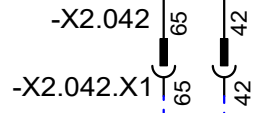
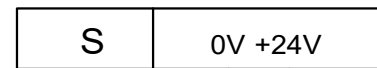
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Ind: ind:	Änd. Nr.: mod.no.:	Datum date	Name name	geprüft approved	04.11.10	Kraeutler	Identnr.: Identnr.: 10555491	von of	1

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Schema Hydr Rückfallstütze 1
diagram Hydr fall-back support 1

A4



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ind:	mod.no.:	date:	name:	issued	22.01.18	lwnhiw0	 Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	inputs + outputs hydr. Grab Eingäng + Ausgänge hydr. Greifer	drawing no.: Zeichnungsnr.:	518 648 9000 06 002	assembly group Anlage	=OW	sheet Blatt	6
Ind:	Änd. Nr.:	Datum	Name	proj. mgr. Projektleit.					ident. no.: Identnr.:	11973403	location Ort	+4A	of von	18

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phys. addr. Phys. Addr.	pin Pin	sheet/col. Blatt/Pfad	description Beschreibung	phys. addr. Phys. Addr.	pin Pin	sheet/col. Blatt/Pfad	phys. addr. Phys. Addr.	pin Pin	sheet/col. Blatt/Pfad	description Beschreibung	phys. addr. Phys. Addr.	pin Pin	sheet/col. Blatt/Pfad	
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%IX2.034.02	5			+24V	3		%IX2.034.18	9			+24V	14		
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%IX2.034.08	21						%IX2.034.24	25			+24V	54		
%IX2.034.09	32						%IX2.034.25	36			+24V	55		
%IX2.034.10	33						%IX2.034.26	37			+24V	56		
%IX2.034.11	34	/8.E2	hydraulic filter grab open ok Hydraulikfilter Greifer öffnen ok				%IX2.034.27	38			+24V	69		
%IX2.034.12	35	/8.E3	hydraulic filter grab close ok Hydraulikfilter Greifer schließen ok				%IX2.034.28	39			+24V	70		
%IX2.034.13	46	/11.E7	diagnose upper limit switch Diagnose Endschalter oben				%IX2.034.29	50						
%IX2.034.14	47	/12.E5	creeping speed lifting Kriechgang heben				%IX2.034.30	51						
%IX2.034.15	48	/12.E6	diagnose creeping speed lifting Diagnose Kriechgang heben	0V	59		%IX2.034.31	52			0V	64		
%IX2.034.16	49			0V	60		%IX2.034.32	53			0V	65		
				0V	61						0V	66		
				0V	62						0V	67		
				0V	63						0V	68		
CAN-RESIST.	29													
CAN-LOW	43			+24V	2									
CAN-HIGH	57			+24V	13									
CAN-LOW	44			GND	16									
CAN-HIGH	58			GND	27									
digital input module Digitale Eingangs-Module											-X2.034 /3.D4		cod. A Kod. A	

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Ind:	Änd. Nr.:	Datum	Name	proj. mgr. Projektleit.					ident. no.:	11973403		location	+4A	of	18

CRANE TYPE: HS / LR / FE
KRANTYP:

ORDER NO:
AUFTRAGSNR.:

PROJECT: network connections JEAN LUTZ-system - master 4
PROJEKT: Netzwerkanbindungen JEAN LUTZ-System - Master 4

				issued Erstellt	31.07.18	lwnrek1	LIEBHERR Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	network connections JEAN LUTZ-system - master 4	drawing no.: Zeichnungsnr.:	513 078 1000 36 100	assembly group Anlage	=KB	sheet Blatt	1
ind: Ind:	mod.no.: Änd. Nr.:	date Datum	name Name	approved geprüft	31.07.18	lwnklt0			Netzwerkanbindungen JEAN LUTZ-System - Master 4	ident. no.: Identnr.:	11991420	location Ort	+4A	of von
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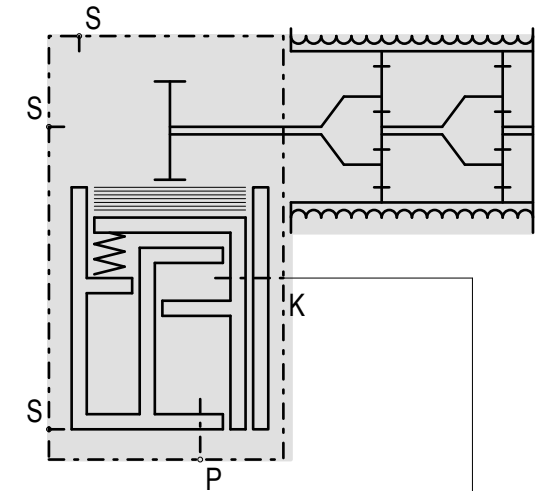
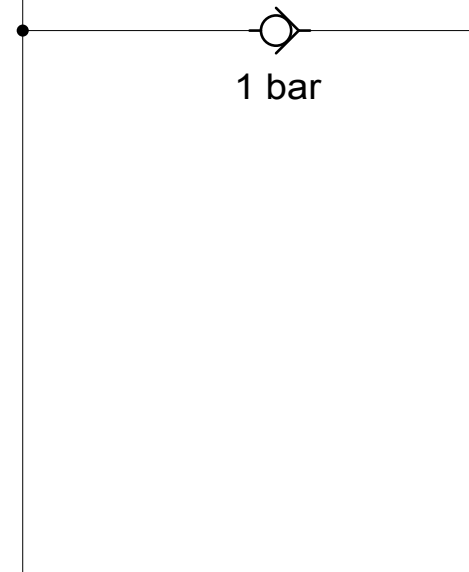
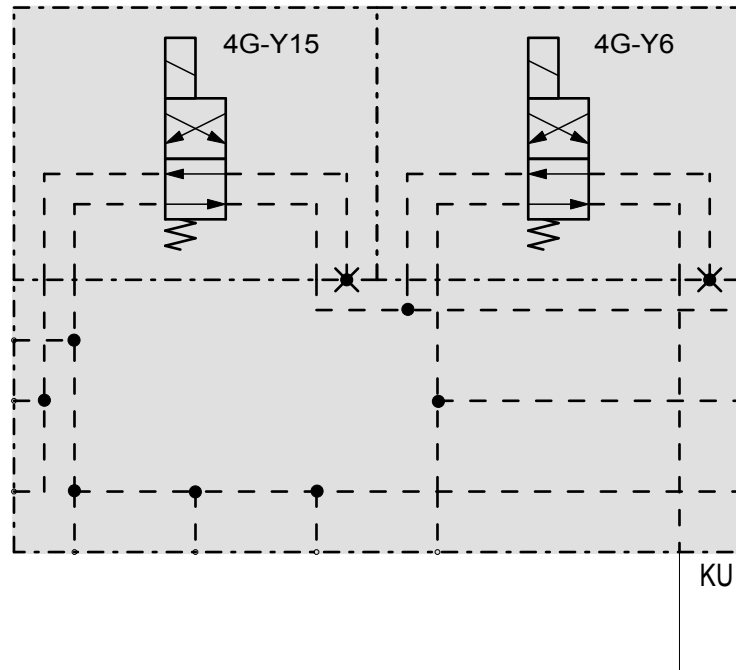
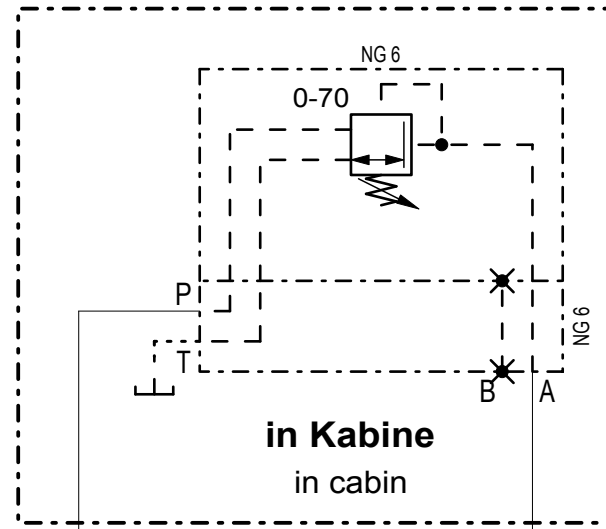
DEVICE TYPE: Gen. 2.xx
GERÄTETYP:

ORDER NO:
AUFTRAGSNR.:

PROJECT: stabilization winch / constant tension winch
PROJEKT: Beruhigungswinde / Konstantzugwinde

02	214436	13.12.17	lwnhiw0	issued Erstellt	14.04.09	lwnkas1	LIEBHERR Liebherr-Werk Nenzing GmbH Copyright © Urheberrecht ©	stabilization winch / constant tension winch Beruhigungswinde / Konstantzugwinde	drawing no.: Zeichnungsnr.:	520 387 9000 06 002	assembly group Anlage	=OW	sheet Blatt	1
ind:	mod.no.:	date	name	proj. mgr. Projektleit.	13.12.17	lwnklt0			ident. no.:	10518249	location Ort	+4A	of von	3
Ind:	Änd. Nr.:	Datum	Name					Identnr.:						

mit Freifall NRS
with free fall RFK



02	204371	04.05.17	Domig S.	Erstellt issued	27.11.14	Reinhardt	Zeichnungsnr.: drawing no.:	518 064 7400 01 002	Blatt sheet	1
Ind: ind:	Änd. Nr.: mod.no.:	Datum date	Name name	geprüft approved	15.03.16	Kräutler W.	Identnr.: Identnr.:	11295345	von of	2
LIEBHERR Liebherr-Werk Nenzing GmbH Urheberrecht © Copyright ©				Schema Hydr Konstantzug Winde 2 diagram Hydr constant tension winch 2						A4

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