

E04	Blitzleuchte am Stab warning beacon on the rod	97084222	7 /17
F02	Sicherung. Steuerspannung 7,5A controller fuse 7,5A	19731066	2 /21
F03	Sicherung Leistung 125A power fuse 125A	19731579	2 /35
F04	Sicherung Fahrsteuerung 100A drive controller fuse 100A	19731422	2 /41
F05	Sicherung Hupe 5A horn fuse 5A	19731181	4 /55
F20	Sicherung Fleetrecorder 5A fleetrecorder fuse 5A	19731181	8 /4
G01	Batterie battery	-	2 /3
G02	Batterie battery	-	2 /3
G03	Batterie battery	-	2 /3
G04	Batterie battery	-	2 /3
G10	Einbau-Ladegerät 35A onboard charger 35A	92003284	2 /19
H01	Hupe horn	90422627	4 /55
K02	Relais Fahrsteuerung drive control contactor	90665670	6 /2
K03	Relais Hupe horn contactor	90567777	4 /52
K04	Hauptrelais main contactor	90676180	2 /12
M01	Fahrantrieb drive motor	90698655	6 /40
M02	Saugmotor suction motor	97132562	5 /9
M05	Tellerbürstenmotor rechts brush motor right	90586645	5 /26
	oder or		
M05	Walzenbürstenmotor rechts-vorne cylindrical motor brush right-front	90529371	5 /65
M06	Tellerbürstenmotor links brush motor left	90586645	5 /18
	oder or		
M06	Walzenbürstenmotor links-hinten cylindrical motor brush left-back	90529371	5 /57
M07	Hubelement Saugfuss lifting element for suction element	92011550	5 /45
M08	Wasserpumpe water pump	97116529	5 /49
M09	Hubelement Bürstendeck lifting element for brush deck	92023332	5 /34
P02	Summer buzzer	97047187	5 /25
P20	Summer Fleetrecorder buzzer for fleetrecorder	97134456	8 /49
R102	Vorwiderstand 2k7 resistor 2k7 (cable harness W77)	19245258	8 /33
S01	Schlüsselschalter key switch	90323437	3 /23
S05	Sitzschalter seat contact switch	90690694	4 /33

X101	VGND MaSt VGND connector machine controller	X101 4/6				
X102	Steckverbinder 1pol. (W2<->W77) connector 1 pole (W2<->W77)	X102/1 8/10				
X103	Steckverbinder 1pol. (W2<->W3) connector 1 pole (W2<->W3)	X103/1 3/20				
X106	Steckverbinder 2pol. (W3<->W77) connector 2 pole (W3<->W77)	X106/1 8/19 X106/2 8/20				
X107	Steckverbinder 2pol. (W77) connector 2 pole (W3<->W77)	X107/1 8/19 X107/2 8/20				
X108	Steckverbinder 8pol. (W2<->W42) connector 8 pole (W2<->W42)	X108/1 4/34 X108/2 4/35	X108/3 4/37 X108/4 4/38	X108/5 •/• X108/6 •/•	X108/7 •/• X108/8 •/•	
XK01A1	VBat Fleetrecorder VBat for fleetrecorder	XK01A1 8/13				

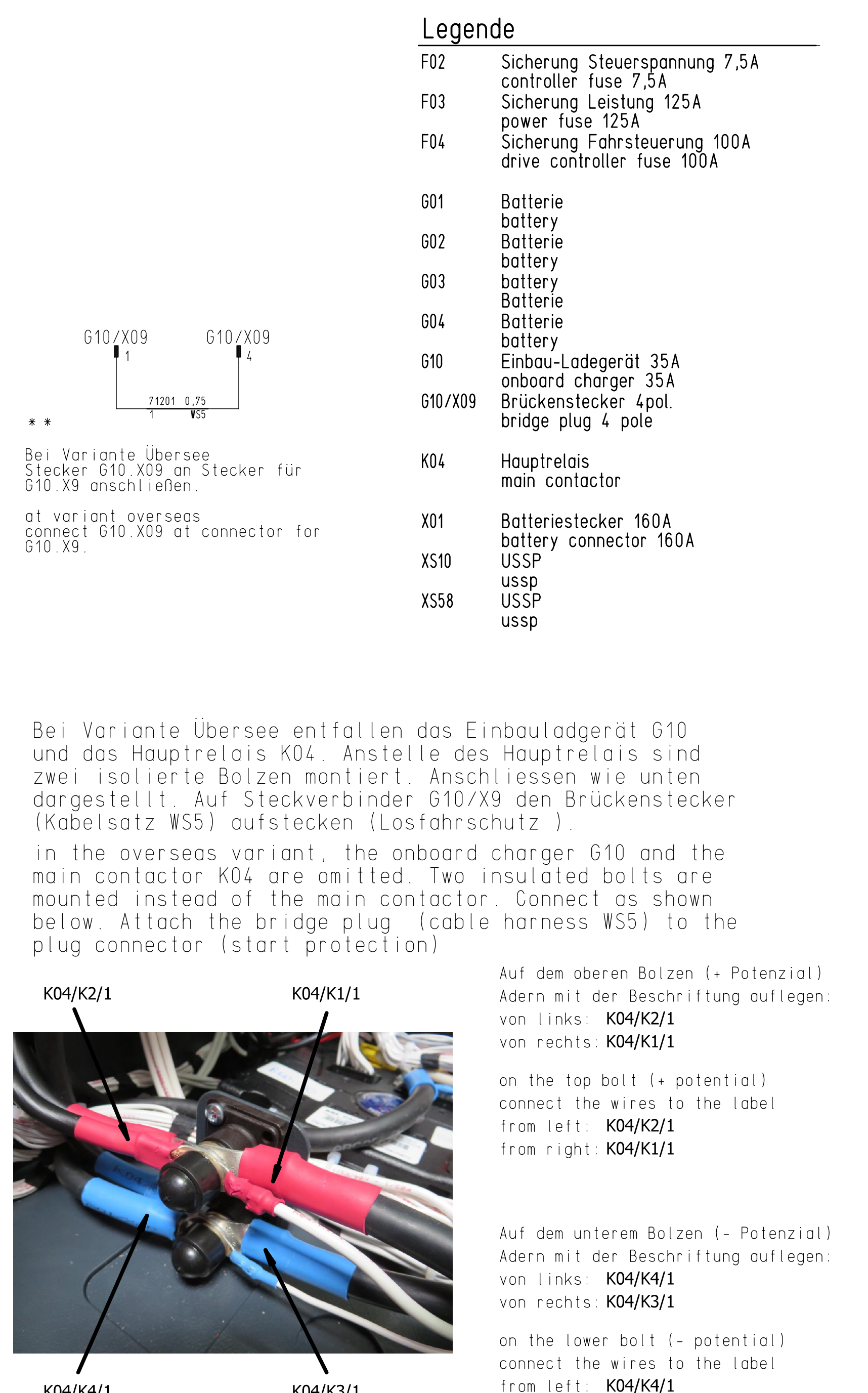
Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
XS01	USSP ussp	-	6 /36	
XS02	USSP ussp	-	6 /21	
XS03	Stossverbinder butt joint	-	5 /17	
XS04	USSP ussp	-	6 /27	
XS05	USSP Ussp	-	6 /29	
XS07	Stossverbinder butt joint	-	2 /14	
XS08	USSP ussp	-	3 /18	
XS09	USSP ussp	-	3 /26	
XS10	USSP ussp	-	2,24	
XS11	USSP ussp	-	6 /11	
XS12	USSP ussp	-	5 /11	
XS13	USSP ussp	-	5 /13	
XS40	USSP ussp	-	4 /54	
XS41	USSP ussp	-	4 /19	
XS42	USSP ussp	-	4 /20	
XS58	USSP ussp	-	2 /21	
XS77	USSP ussp	-	8 /34	
XS78	USSP ussp	-	8 /13	
XS79	USSP ussp	-	8 /20	

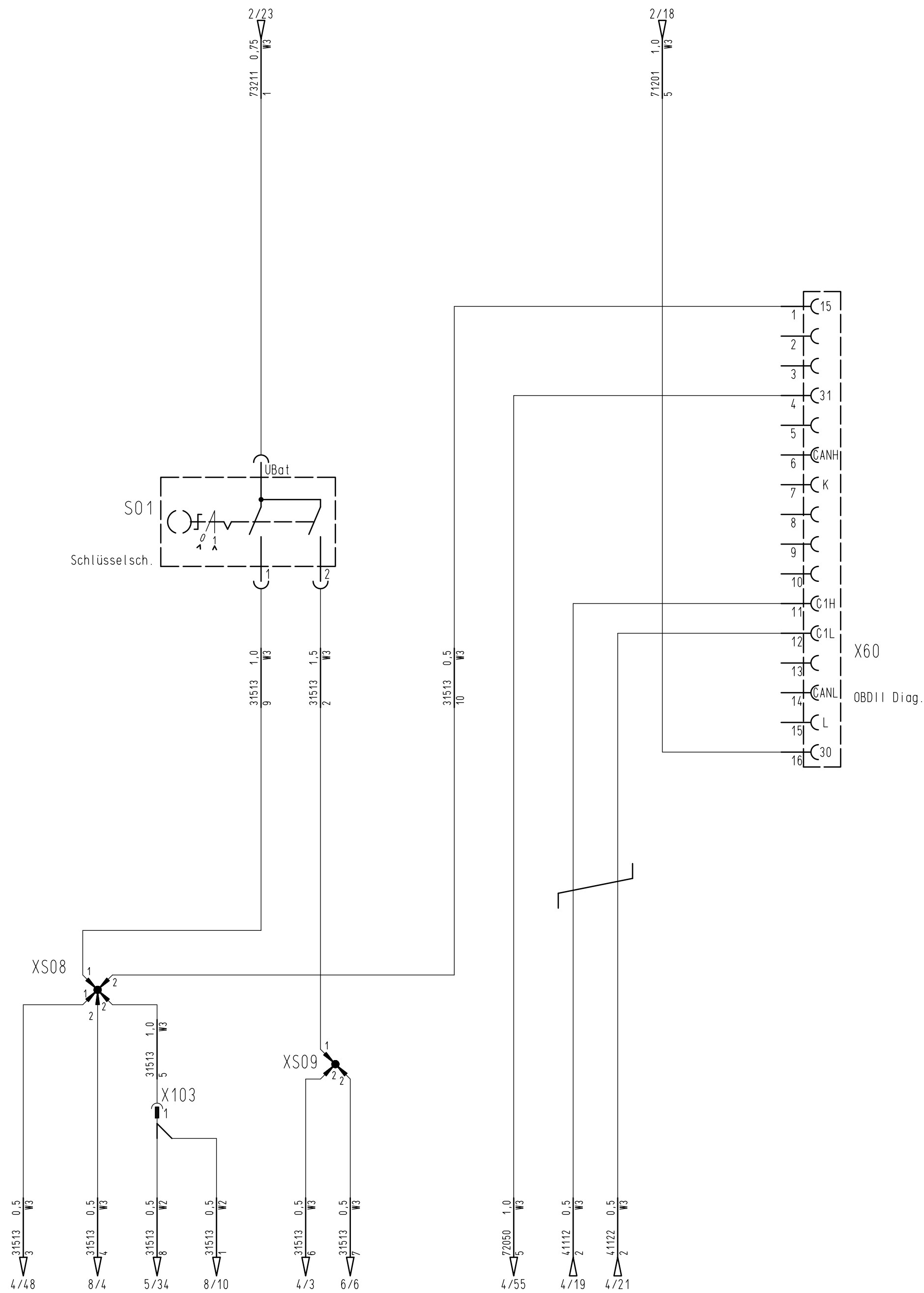
A04	Fahrsteuerung drive controller	B+ B- 6/2 6/2	M1 M2 6/36 6/34	M3 6/37			
A04 /A	Fahrsteuerung drive controller	A/1 A/2 A/3 A/4 A/5 6/26 6/28 6/9 6/25 •/•	A/6 A/7 A/8 A/9 A/10 •/• 6/14 6/12 6/14 6/6	A/11 A/12 A/13 A/14 A/15 6/39 6/5 6/45 •/• 6/40	A/16 6/15		
A04 /B	Fahrsteuerung drive controller	B/1 B/2 •/• •/•	B/3 B/4 •/• •/•	B/5 B/6 6/24 6/22	B/7 B/8 •/• •/•		
A04 /C	Fahrsteuerung drive controller	C/1 C/2 6/42 6/41	C/3 C/4 •/• 6/45	C/5 C/6 6/44 6/43			

Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
	Flachbandkabel ribbon cable	90680059		
W1	Kabelbaum W1 cable harness W1	97137228		
W1.	Kabelbaum W1 cable harness W1	97158448		④
W2	Kabelbaum W2 cable harness W2	97137244		
W3	Kabelbaum W3 cable harness W3	97137236		
W4	Kabelbaum W4 cable harness W4	97137293		
W10	Kabelbaum W10 cable harness W10	97137251		
W35	Kabelbaum W35 cable harness W35	97148183		
W36	Kabelbaum W36 cable harness W36	97148191		
W42	Kabelbaum W42 cable harness W42	97137269		
W65	Kabelbaum W65 cable harness W65	97147144		
W77	Kabelbaum W77 cable harness W77	97131163		
W102	Kabelbaum W102 cable harness W102	97137277		
WS5	Kabelsatz WS5 cable harness WS5	97130017		
WS6	Kabelsatz WS6 cable harness WS6	97140750		
WS7	Kabelsatz WS7 cable harness WS7	97140768		

Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
	Flachbandkabel ribbon cable	90680059		
W1	Kabelbaum W1 cable harness W1	97137228		
W1.	Kabelbaum W1 cable harness W1	97158448	4	
W2	Kabelbaum W2 cable harness W2	97137244		
W3	Kabelbaum W3 cable harness W3	97137236		
W4	Kabelbaum W4 cable harness W4	97137293		
W10	Kabelbaum W10 cable harness W10	97137251		
W35	Kabelbaum W35 cable harness W35	97148183		
W36	Kabelbaum W36 cable harness W36	97148191		
W42	Kabelbaum W42 cable harness W42	97137269		
W65	Kabelbaum W65 cable harness W65	97147144		
W77	Kabelbaum W77 cable harness W77	97131163		
W102	Kabelbaum W102 cable harness W102	97137277		
WS5	Kabelsatz WS5 cable harness WS5	97130017		
WS6	Kabelsatz WS6 cable harness WS6	97140750		
WS7	Kabelsatz WS7 cable harness WS7	97140768		

		4	1x	3650-39	10.12.18	Ri	2013 Drawn by Verified	Date 02.11.	Name JKem	B120R	Name	 D-23840 Bad Oldesloe		Drawing Number 91037861			
										Replacem. for same no.	Schaltplan B120 / Circuit diagram B120						
										Change No. 3515-21	For this drawing we reserve all rights (acc. DIN ISO 16016)		KAB1 472	Type 7177	Dep. ELK	No. of Sh. 10	Sheet 1
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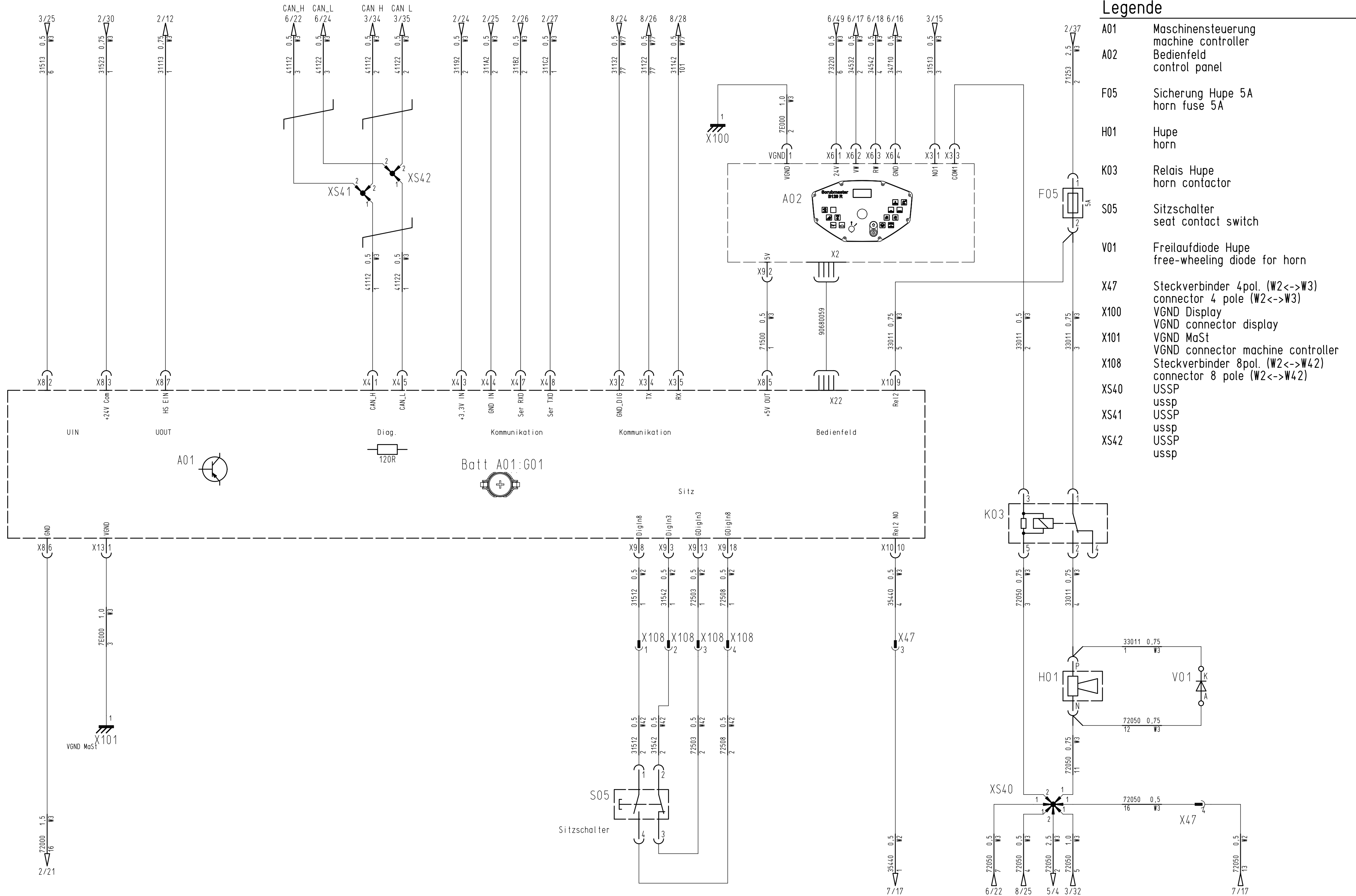




Legende

S01	Schlüsselschalter key switch
X60	OBDII Diagnosestecker OBDII diagnostic connector
X103	Steckverbinder 1pol. (W2<->W3) connector 1 pole (W2<->W3)
XS08	USSP ussp
XS09	USSP ussp

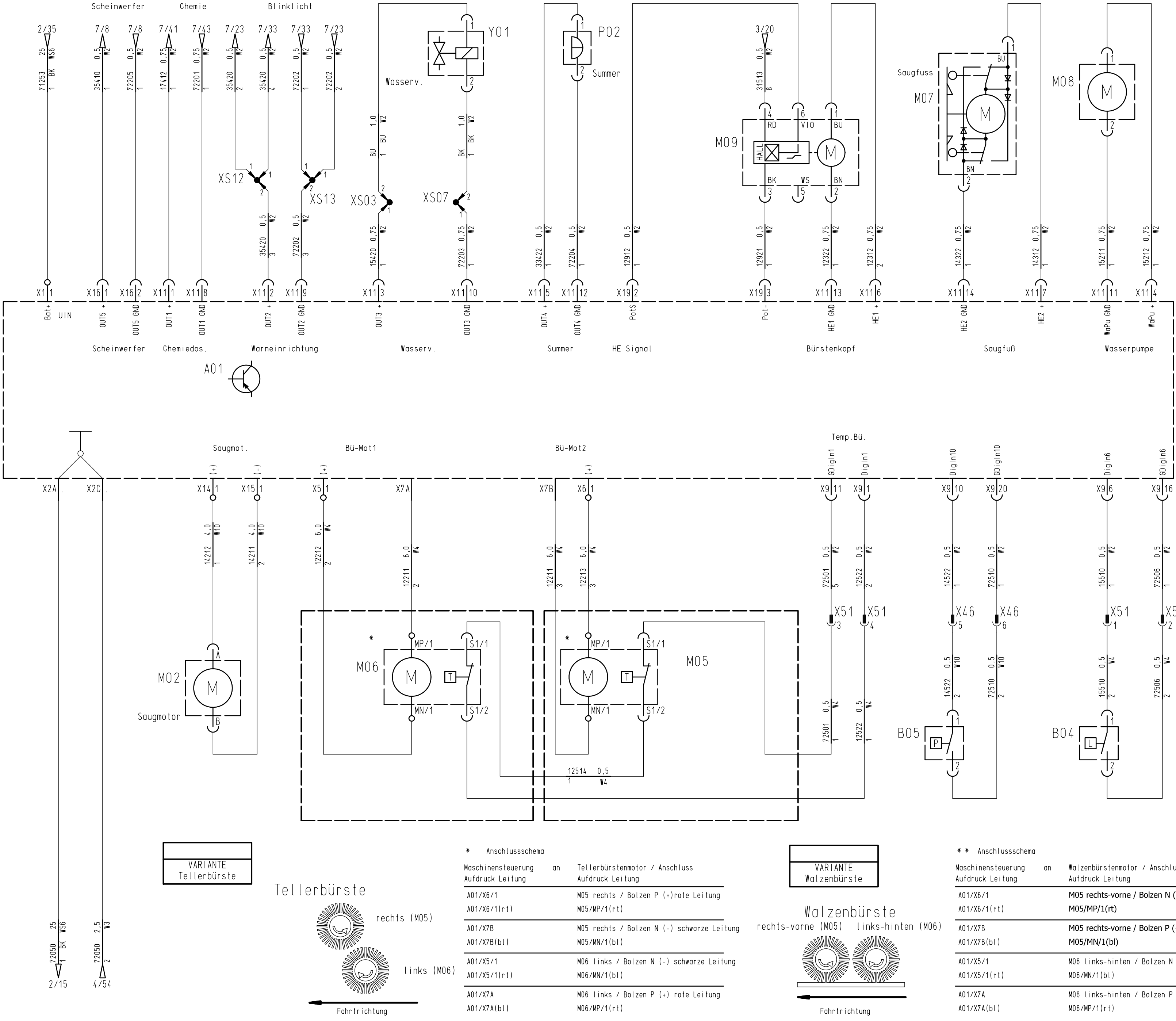
A2	No.	Number appears	Change No.	Date	Name	2015	Date	Name	B120R	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91037861	
						Drawn by	02.11.	JKem					
						Verified							
									Replacem. for same no.	Schaltplan B120 R / Circuit diagram B120 R			
									Change No. 3515-21	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177 Dep. ELK	No. of Sh. 10 Sheet 3



Legende

- A01 Maschinensteuerung
machine controller
- A02 Bedienfeld
control panel
- F05 Sicherung Hupe 5A
horn fuse 5A
- H01 Hupe
horn
- K03 Relais Hupe
horn contactor
- S05 Sitzschalter
seat contact switch
- V01 Freilaufdiode Hupe
free-wheeling diode for horn
- X47 Steckverbinder 4pol. (W2<->W3)
connector 4 pole (W2<->W3)
- X100 VGND Display
VGND connector display
- X101 VGND MaSt
VGND connector machine controller
- X108 Steckverbinder 8pol. (W2<->W42)
connector 8 pole (W2<->W42)
- XS40 USSP
- XS41 USSP
- XS42 USSP

4	•/•	3650-39	10.12.18	Ri	2015	Date	Name	B120R	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91037861		
					Drawn by	02.11.	JKem						
					Verified			Replacem. for same no.				Schaltplan B120 R / Circuit diagram B120 R	
A2	No.	Number appears	Change No.	Date	Name	Standard		Change No. 3515-21	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177 Dep. ELK	No. of Sh. 10	Sheet 4



- Legende
- A01

Maschinensteuerung
machine controller
- B04

Frischwassersensor
fresh water sensor
- B05

Schmutzwassertanksensor
sewage sensor
- M02

Saugmotor
suction motor
- M05

Tellerbürstenmotor rechts
brush motor right
- M05.

Walzenbürstenmotor rechts-vorne
cylindrical motor brush right-front
- M05/S1

Steckverbinder 2pol. (W4<->W36)
connector 2 pole (W4<->W36)
- M06

Tellerbürstenmotor links
brush motor left
- M06.

Walzenbürstenmotor links-hinten
cylindrical motor brush left-back
- M06/S1

Steckverbinder 2pol. (W4<->W35)
connector 2 pole (W4<->W35)
- M07

Hubelement Saugfuss
lifting element for suction element
- M08

Wasserpumpe
water pump
- M09

Hubelement Bürstendeck
lifting element for brush deck
- P02

Summer
buzzer
- X46

Steckverbinder 6pol. (W2<->W10)
connector 6 pole (W2<->W10)
- X51

Steckverbinder 4pol. (W2<->W4)
connector 4 pole (W2<->W4)
- XS03

Stossverbinder
butt joint
- XS07

Stossverbinder
butt joint
- XS12

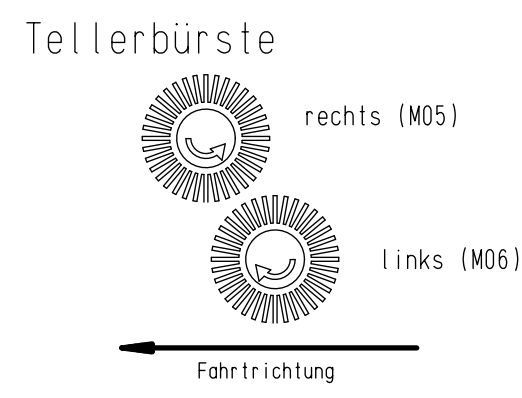
USSP
ussp
- XS13

USSP
ussp
- Y01

Wasserventil
water valve

VARIANTE

Tellerbürste

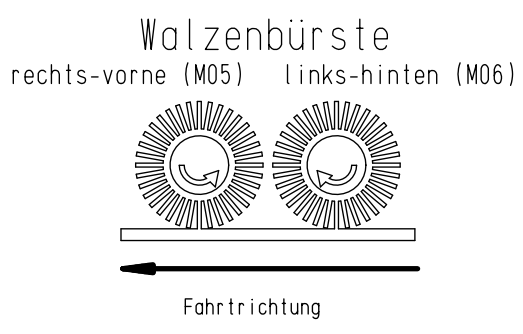


* Anschlussschema

Maschinensteuerung	an	Tellerbürstenmotor / Anschluss
A01/X6/1	on	Aufdruck Leitung
A01/X6/1(rt)		M05 rechts / Bolzen P (+)rote Leitung
A01/X7B		M05 rechts / Bolzen N (-) schwarze Leitung
A01/X7B(bl)		M05/MN/1(bl)
A01/X5/1		M06 links / Bolzen N (-) schwarze Leitung
A01/X5/1(rt)		M06/MN/1(bl)
A01/X7A		M06 links / Bolzen P (+) rote Leitung
A01/X7A(bl)		M06/MP/1(rt)

VARIANTE

Walzenbürste

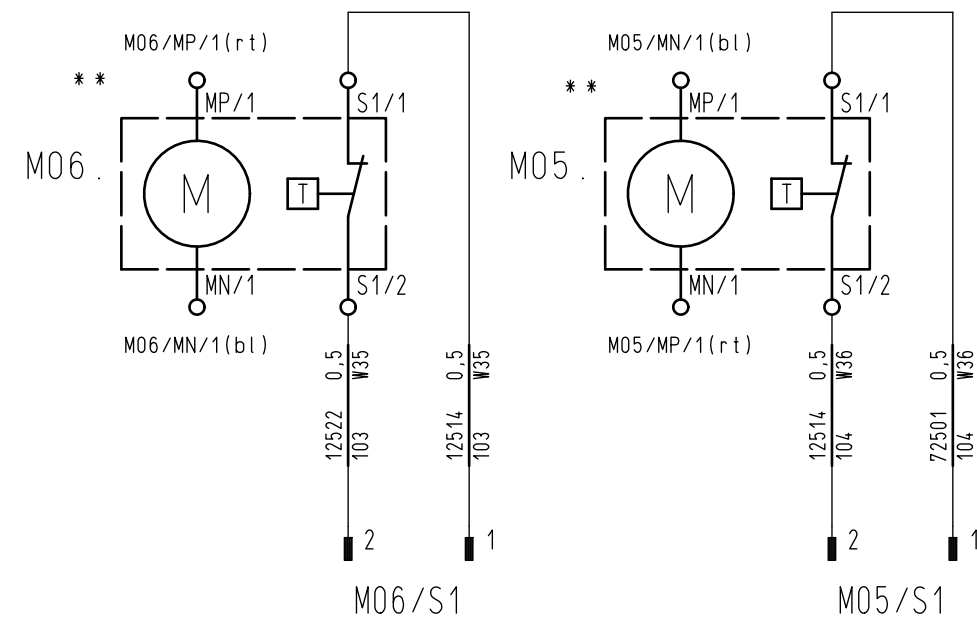


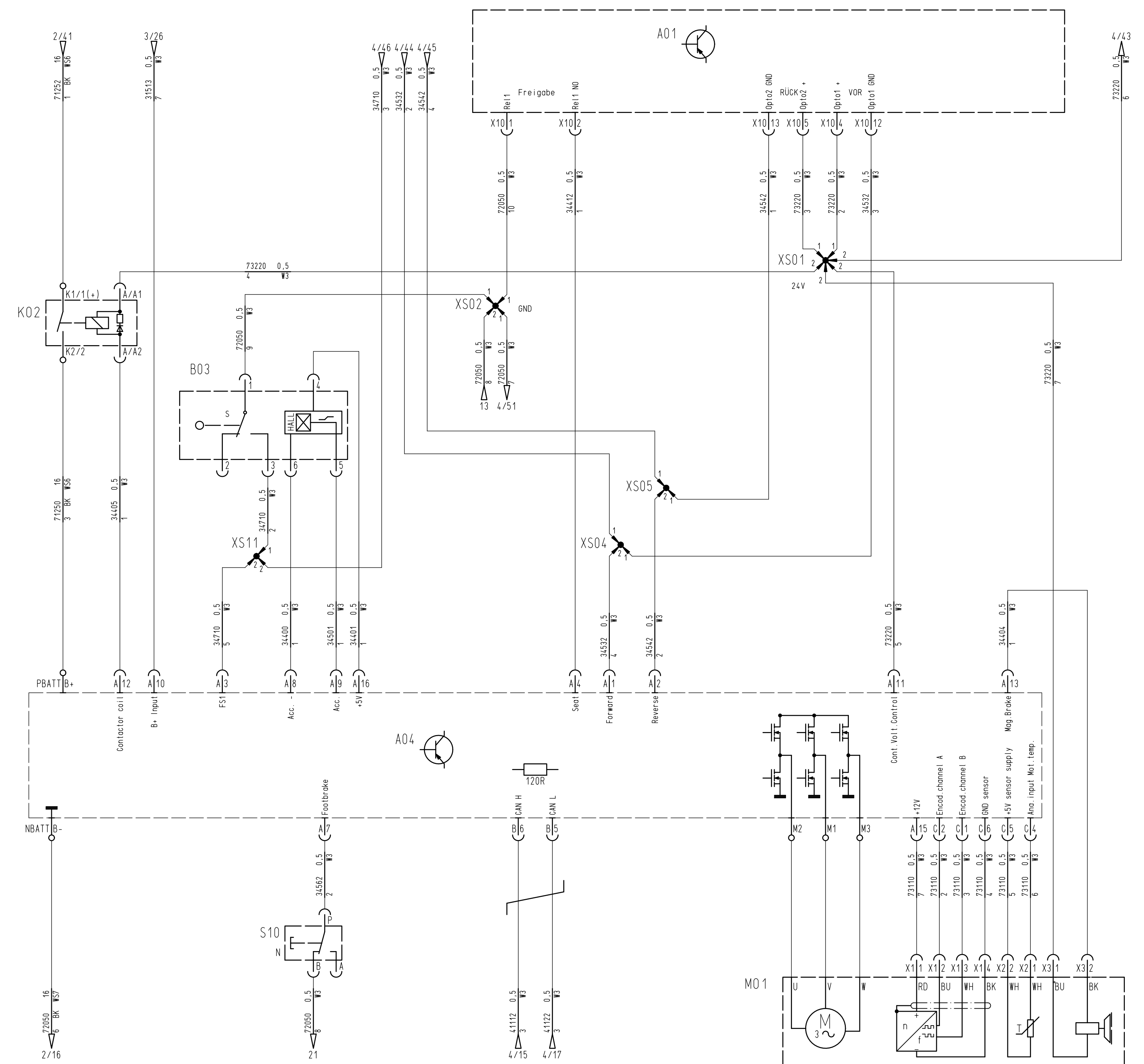
** Anschlussschema

Maschinensteuerung	an	Walzenbürstenmotor / Anschluss
A01/X6/1	on	Aufdruck Leitung
A01/X6/1(rt)		M05 rechts-vorne / Bolzen N (-)
A01/X7B		M05 rechts-vorne / Bolzen P (+)
A01/X7B(bl)		M05/MN/1(bl)
A01/X5/1		M06 links-hinten / Bolzen N (-)
A01/X5/1(rt)		M06/MN/1(bl)
A01/X7A		M06 links-hinten / Bolzen P (+)
A01/X7A(bl)		M06/MP/1(rt)

Variante Walzenbürstendeck

variante cylindrical brush deck

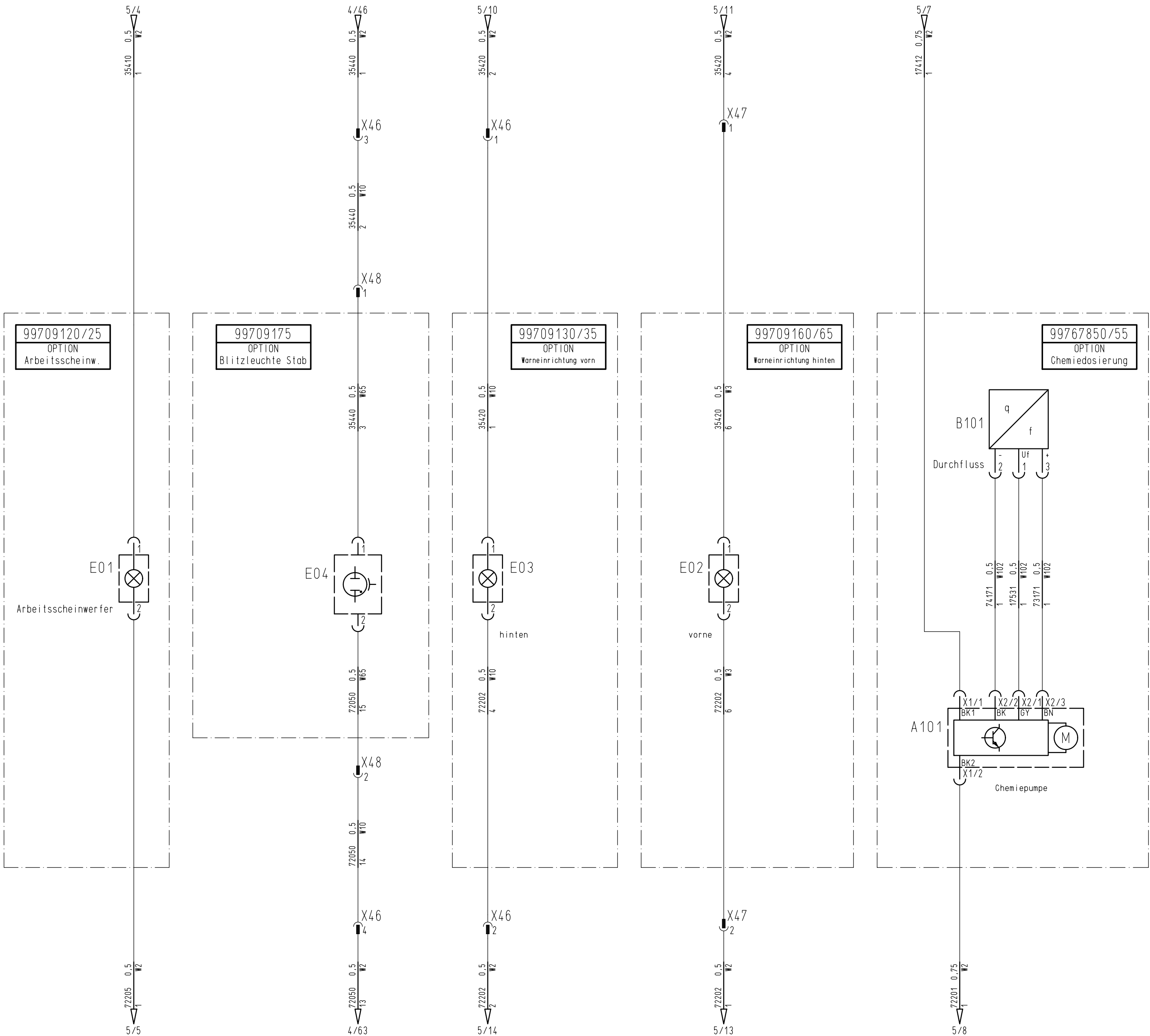




Legende	
A01	Maschinensteuerung machine controller
A04	Fahrsteuerung drive controller
B03	Fahrgeber accelerator
K02	Relais Fahrsteuerung drive control contactor
M01	Fahr Antrieb drive motor
S10	Bremstaster breake switch
XS01	USSP
XS02	USSP
XS04	USSP
XS05	USSP
XS11	USSP

A2	No.	Number appears	Change No.	Date	Name	Standard	2016 Drawn by Verified	Date 02.11.	Name JKem	B120R Replacem. for same no. Change No. 3515-21	Name Schaltplan B120 R / Circuit diagram B120 R	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. ELK	No. of Sh. 10	Sheet 6	Drawing Number 91037861





- Legende
- A101

Chemiepumpensteuerung
chemical pump controller
- B101

Durchflussmesser
flow sensor
- E01

Arbeitsscheinwerfer
working headlight
- E02

Warneinrichtung Front
warning beacon front
- E03

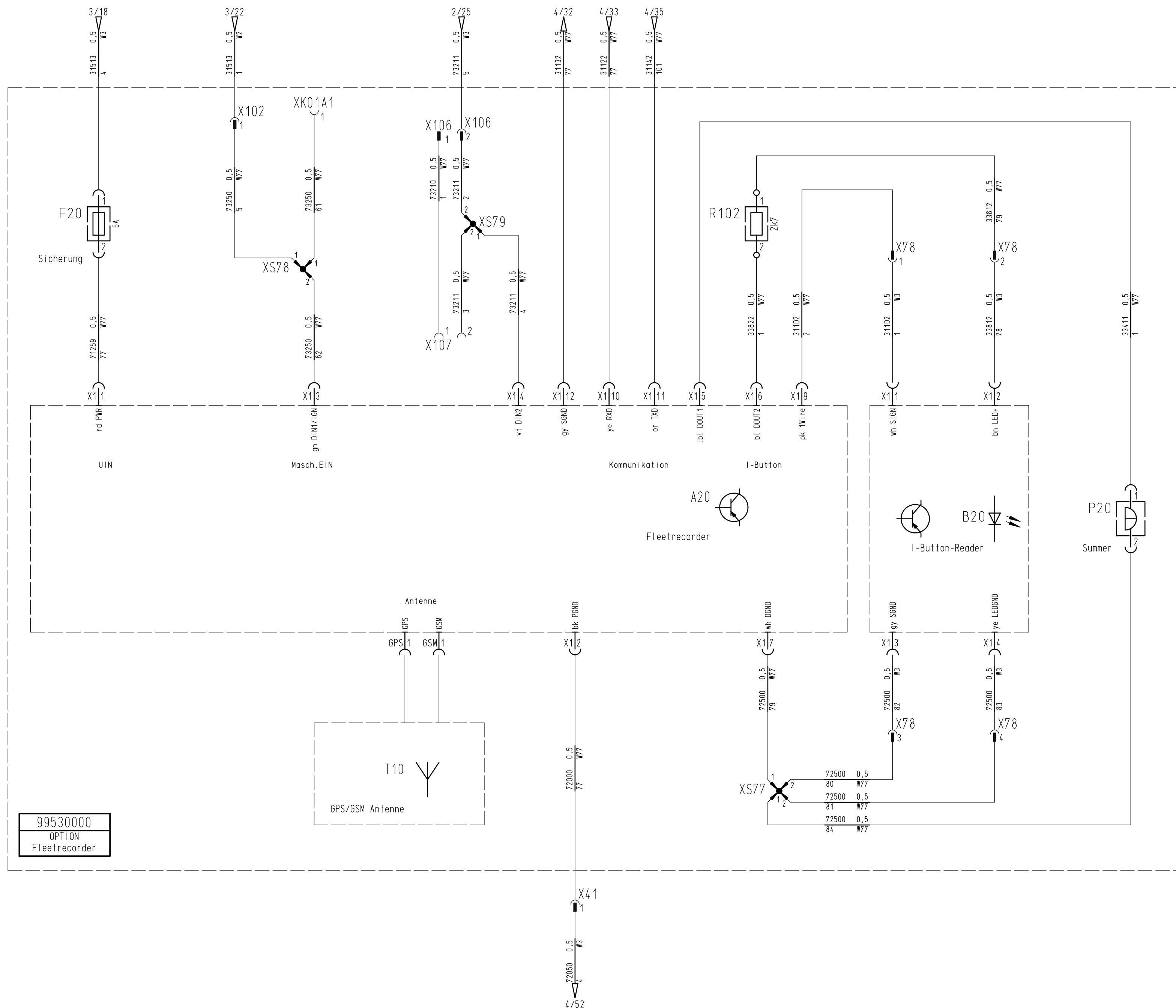
Warneinrichtung Heck
warning beacon back
- E04

Blitzleuchte am Stab
warning beacon on the rod
- X46

Steckverbinder 6pol. (W2<->W10)
connector 6 pole (W2<->W10)
- X47

Steckverbinder 4pol. (W2<->W3)
connector 4 pole (W2<->W3)
- X48

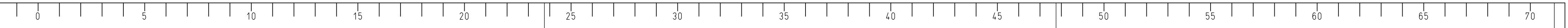
Steckverbinder 2pol. (W10<->W65)
connector 2 pole (W10<->W65)



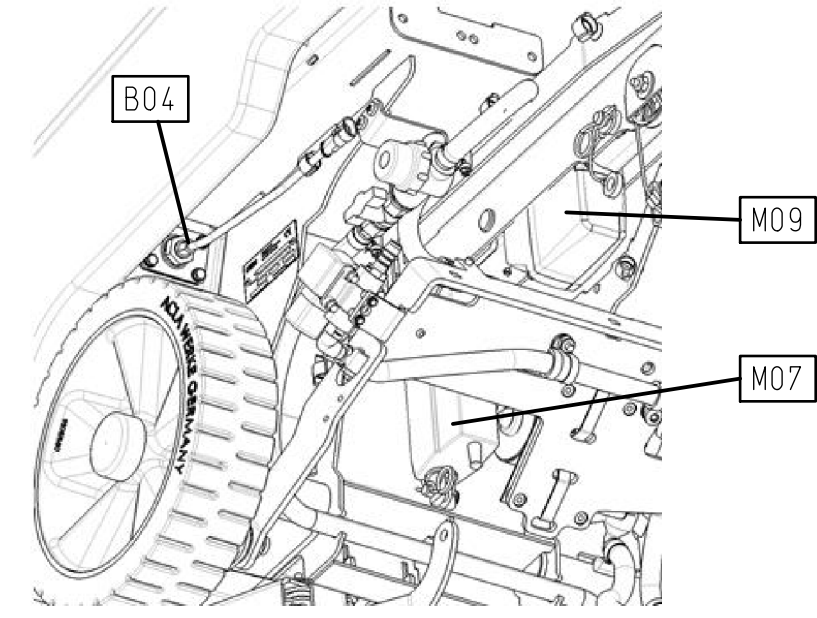
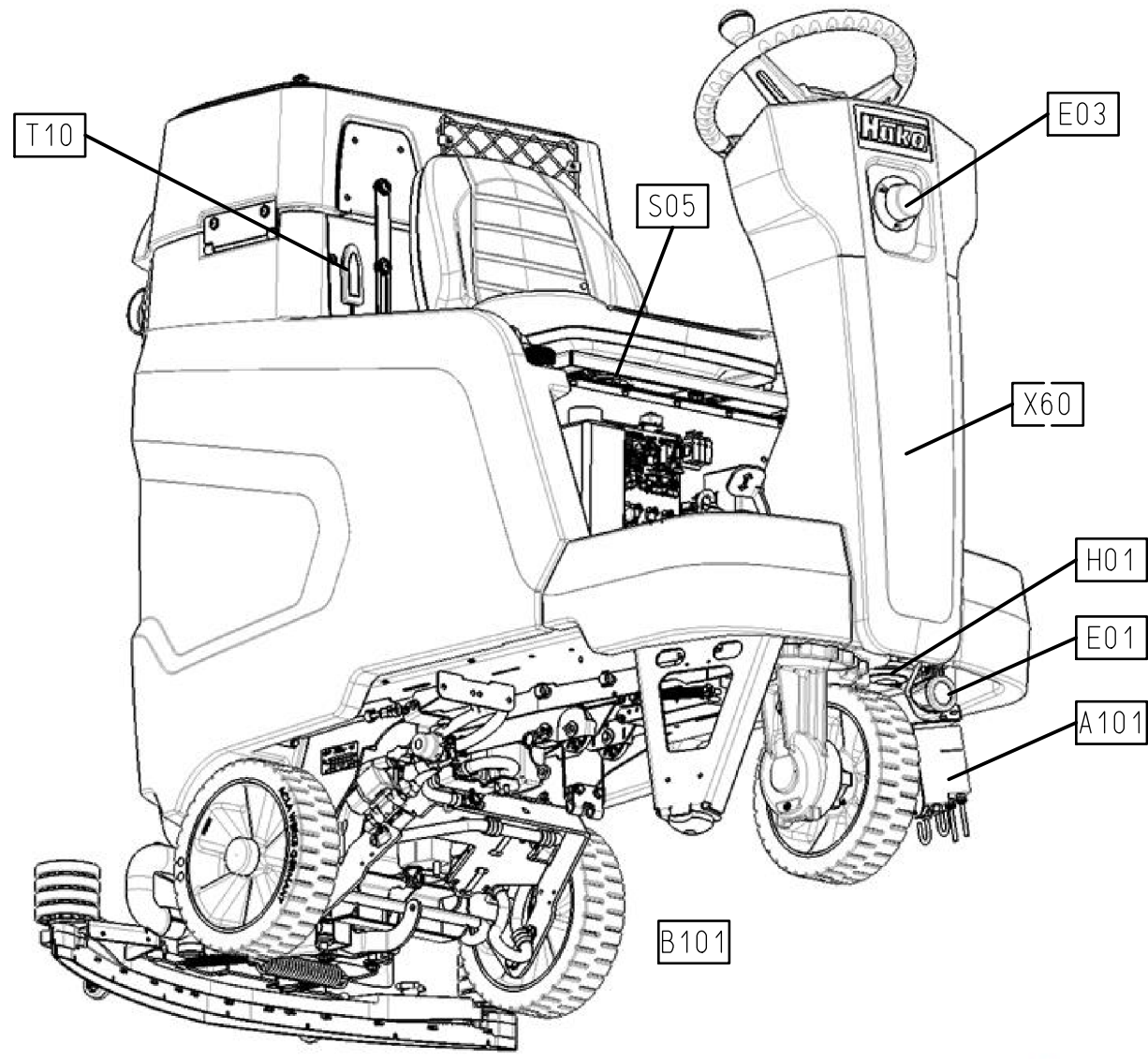
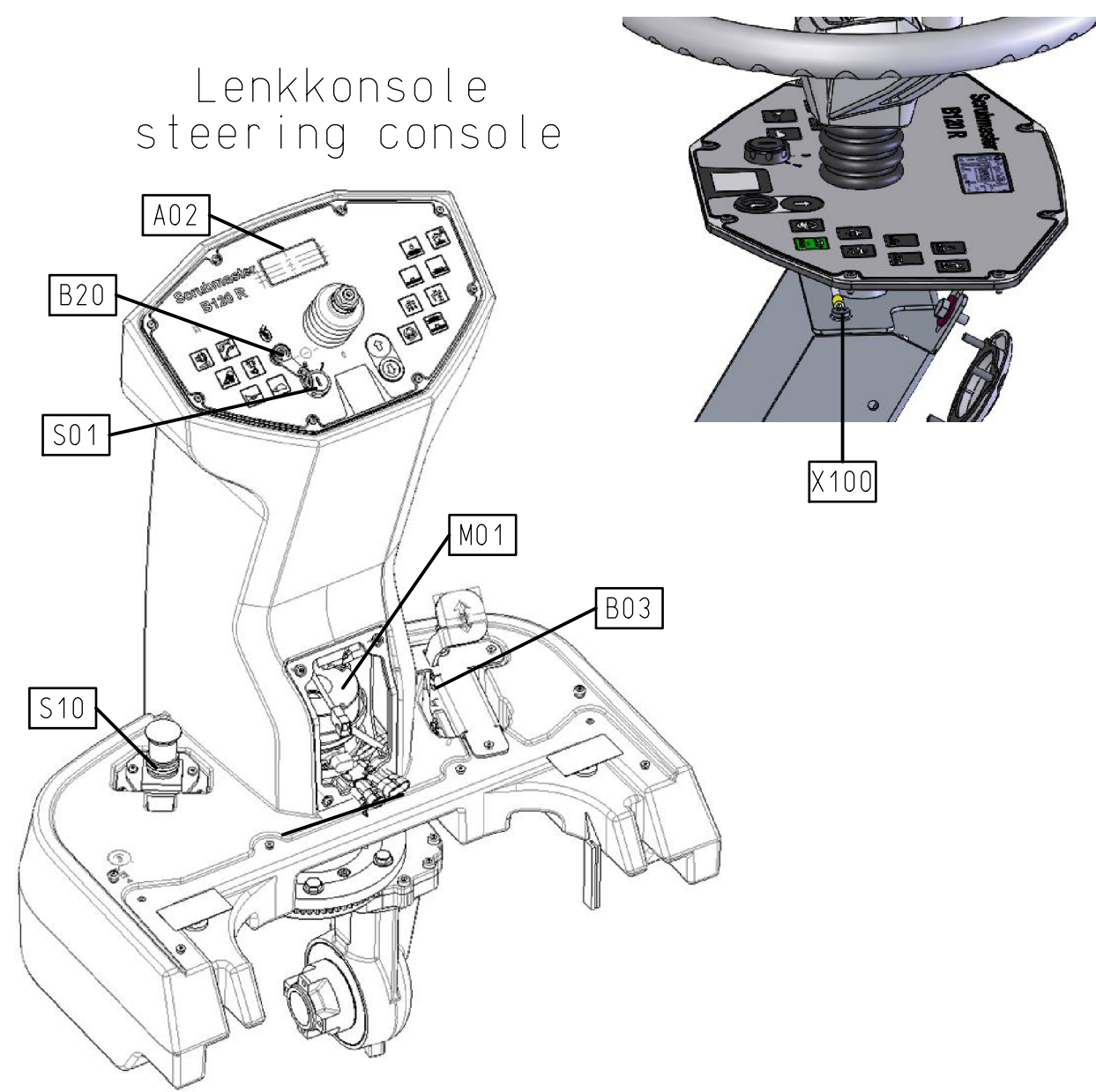
Legende

A20	Fleetrecorder fleetrecorder
B20	I-Button-Reader i-button-reader
F20	Sicherung Fleetrecorder 5A fleetrecorder fuse 5A
P20	Summer Fleetrecorder buzzer for fleetrecorder
R102	Vorwiderstand 2k7 resistor 2k7 (cable harness W77)
T10	Kombiantenne GPS/GSM Antenna
X41	Steckverbinder 1pol. (W3<->W77) connector 1 pole (W3<->W77)
X78	Steckverbinder 4pol. (W3<->W77) connector 4 pole (W3<->W77)
X102	Steckverbinder 1pol. (W2<->W77) connector 1 pole (W2<->W77)
X106	Steckverbinder 2pol. (W3<->W77) connector 2 pole (W3<->W77)
X107	Steckverbinder 2pol. (W77) connector 2 pole (W3<->W77)
XK01A1	VBat Fleetrecorder VBat for fleetrecorder
XS77	USSP ussp
XS78	USSP ussp
XS79	USSP ussp

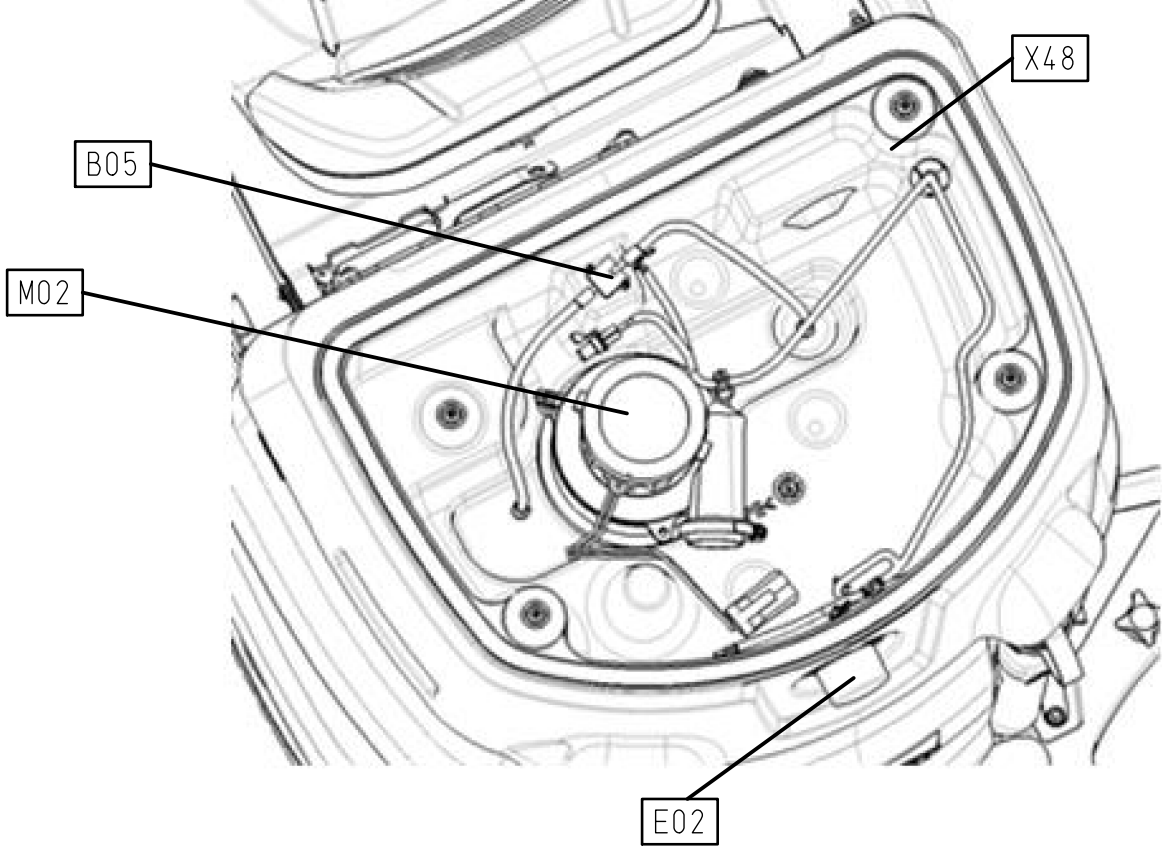
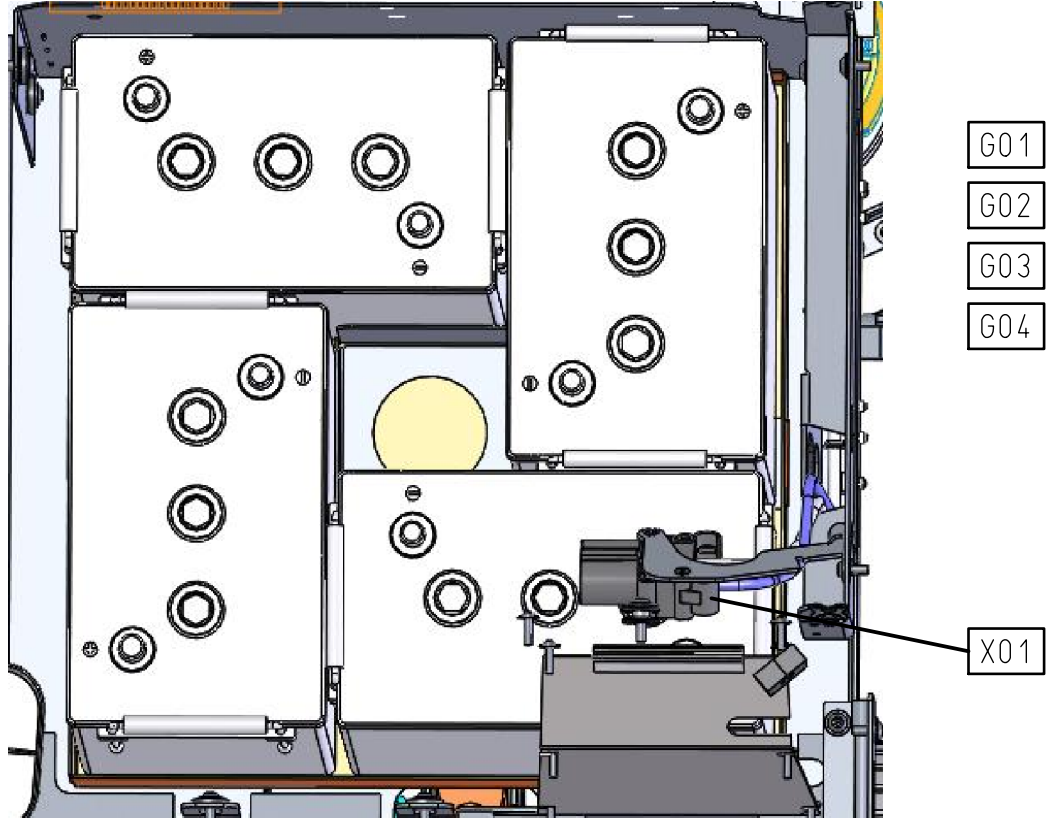
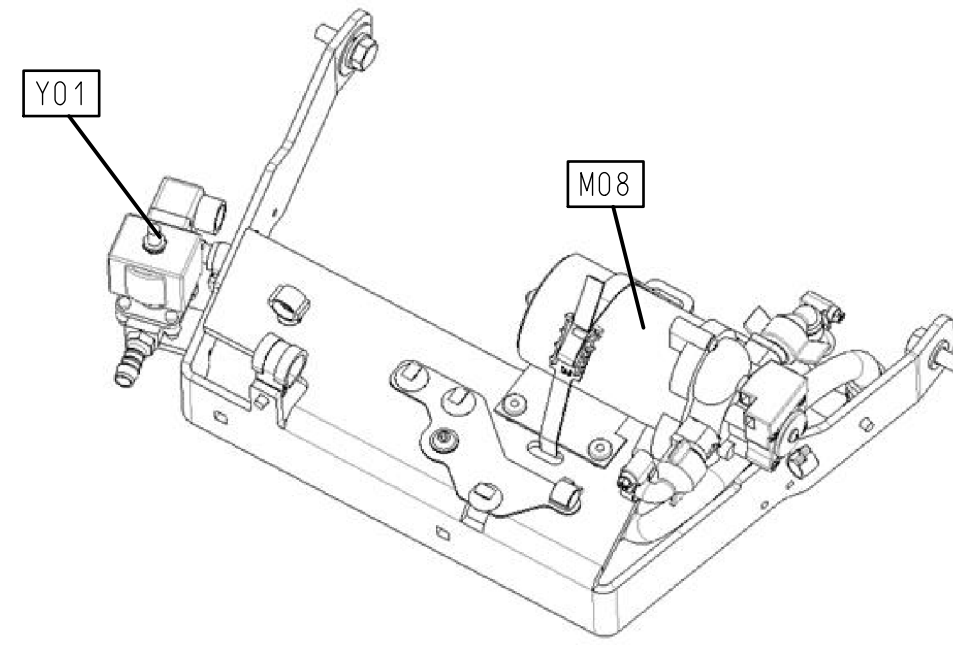
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									Replacem. for same no.	Schaltplan B120 R / Circuit diagram B120 R					
A2	No.	Number appears	Change No.	Date	Name	Standard			Change No. 3515-21	For this drawing we reserve all rights (acc. DIN ISO 16016)		KAB1 472	Type 7177	Dep. ELK	No. of Sh. 10



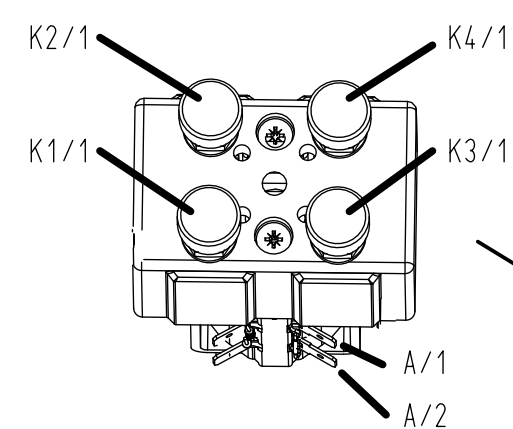
Lenkkonsole
steering console



Schwinge
wing



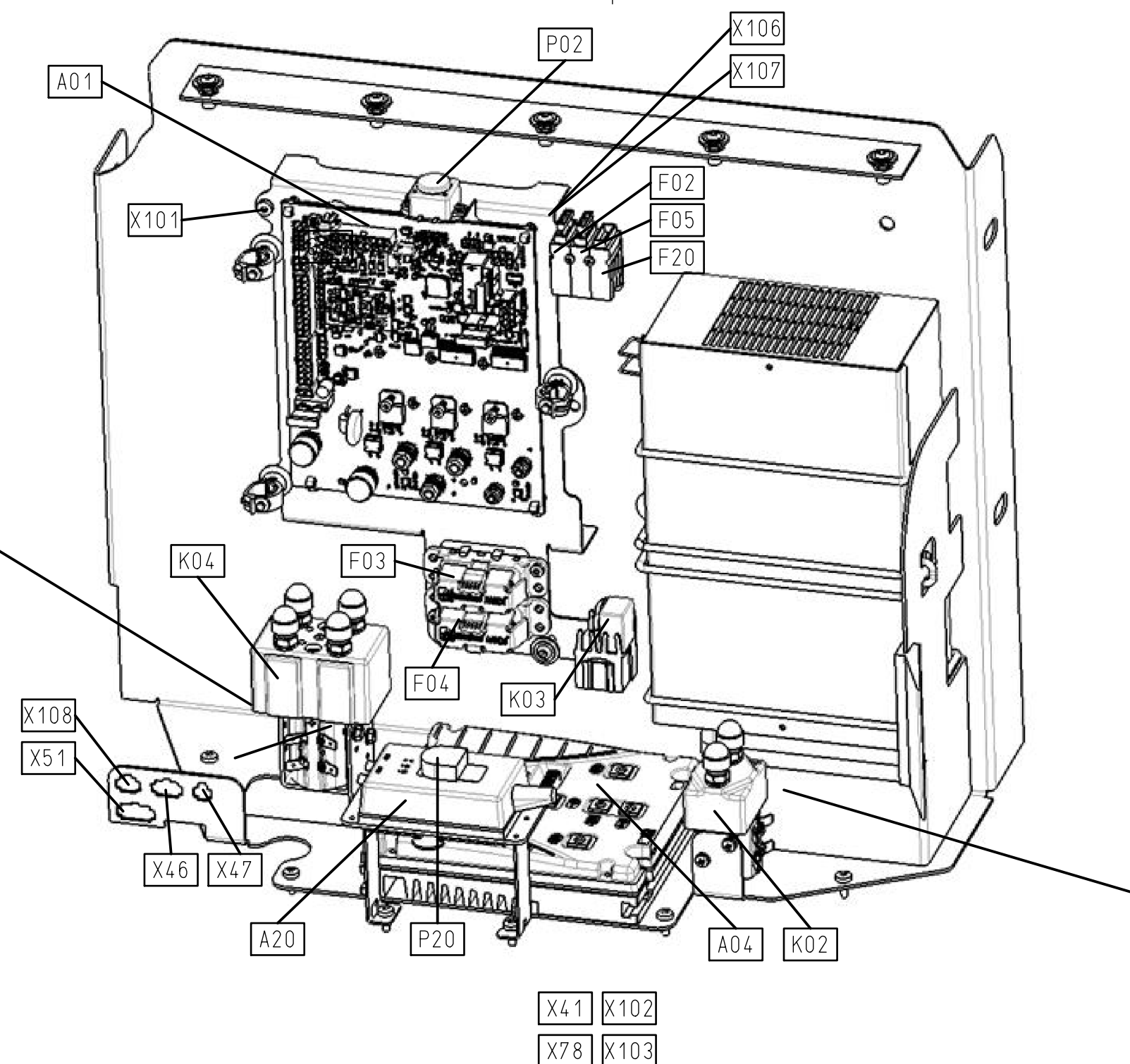
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						Drawn by	02.11.	JKem	Replacem. for same no.							
						Verified										
No.	Number appears	Change No.	Date	Name	Standard		Change No.	3515-21	For this drawing we reserve all rights (acc. DIN ISO 16016)			KAB1 472	Type 7177	Dep. ELK	No. of Sh. 10	Sheet 9



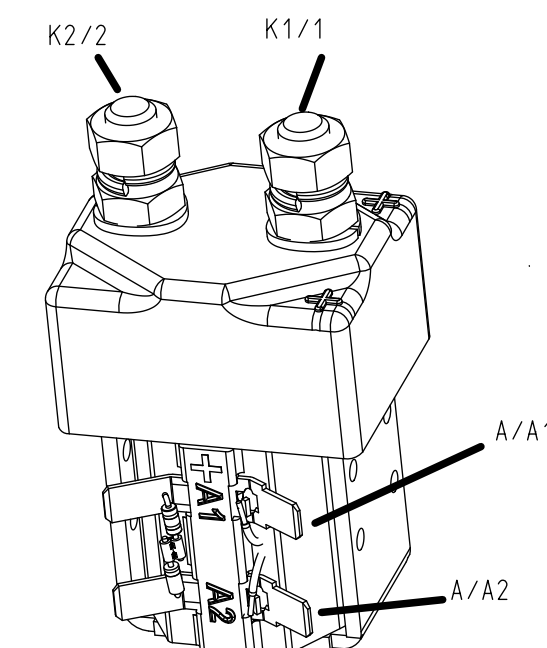
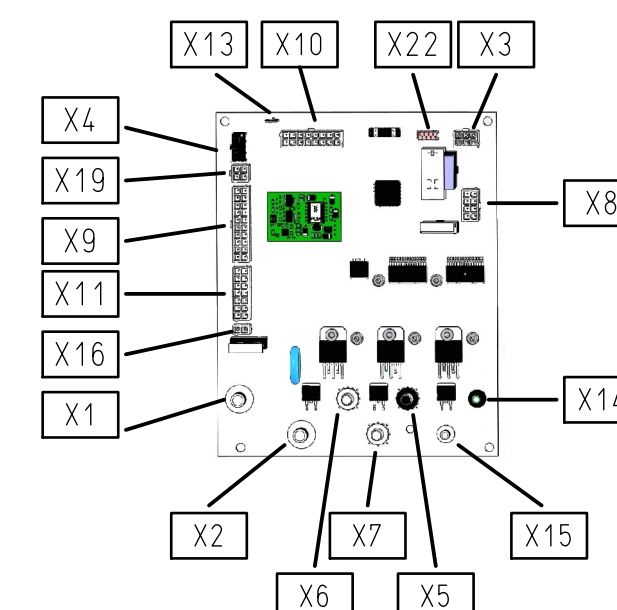
Variante Übersee
variant overseas



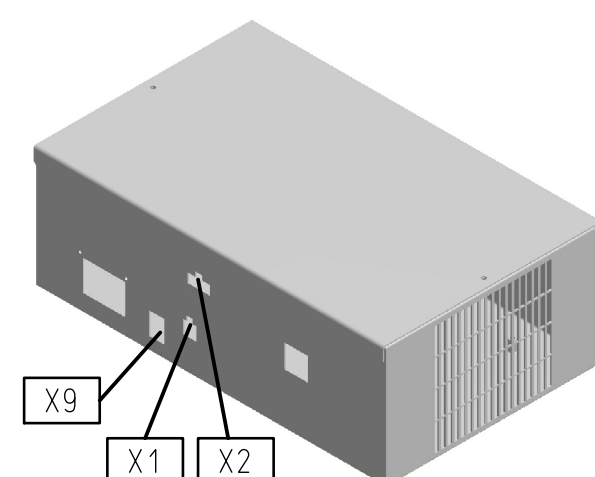
E-Blech
electronic compartment



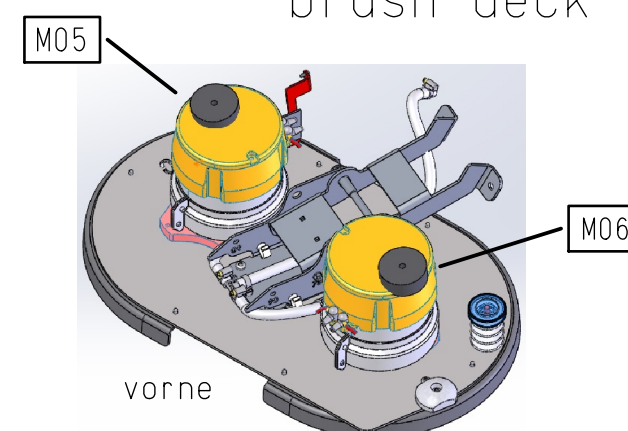
Maschinensteuerung A01
machine control A01



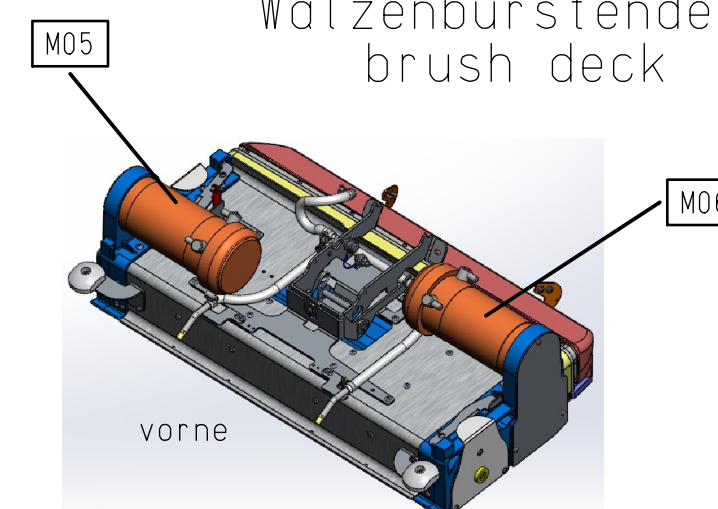
Ladegerät G10
onboard charger G10



Tellerbürstendeck
brush deck



Walzenbürstendeck
brush deck



A2	4	•/•	3650-39	10.12.18	Ri	2015	Date	Name	B120R	Name	Schaltplan B120 R / Circuit diagram B120 R	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91037861		
						Drawn by	02.11.	JKem							
						Verified									
No.	Number appears	Change No.	Date	Name	Standard				Replacem. for same no.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. ELK	No. of Sh. 10	Sheet 10
									Change No. 3515-21						