

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 /22
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
R102	Vorwiderstand 2k7 resistor 2k7	19245258	8 /26
S01	Schlüsselschalter key switch	90323437	3 /23
S05	Sitzschalter seat contact switch	90690694	4 /33

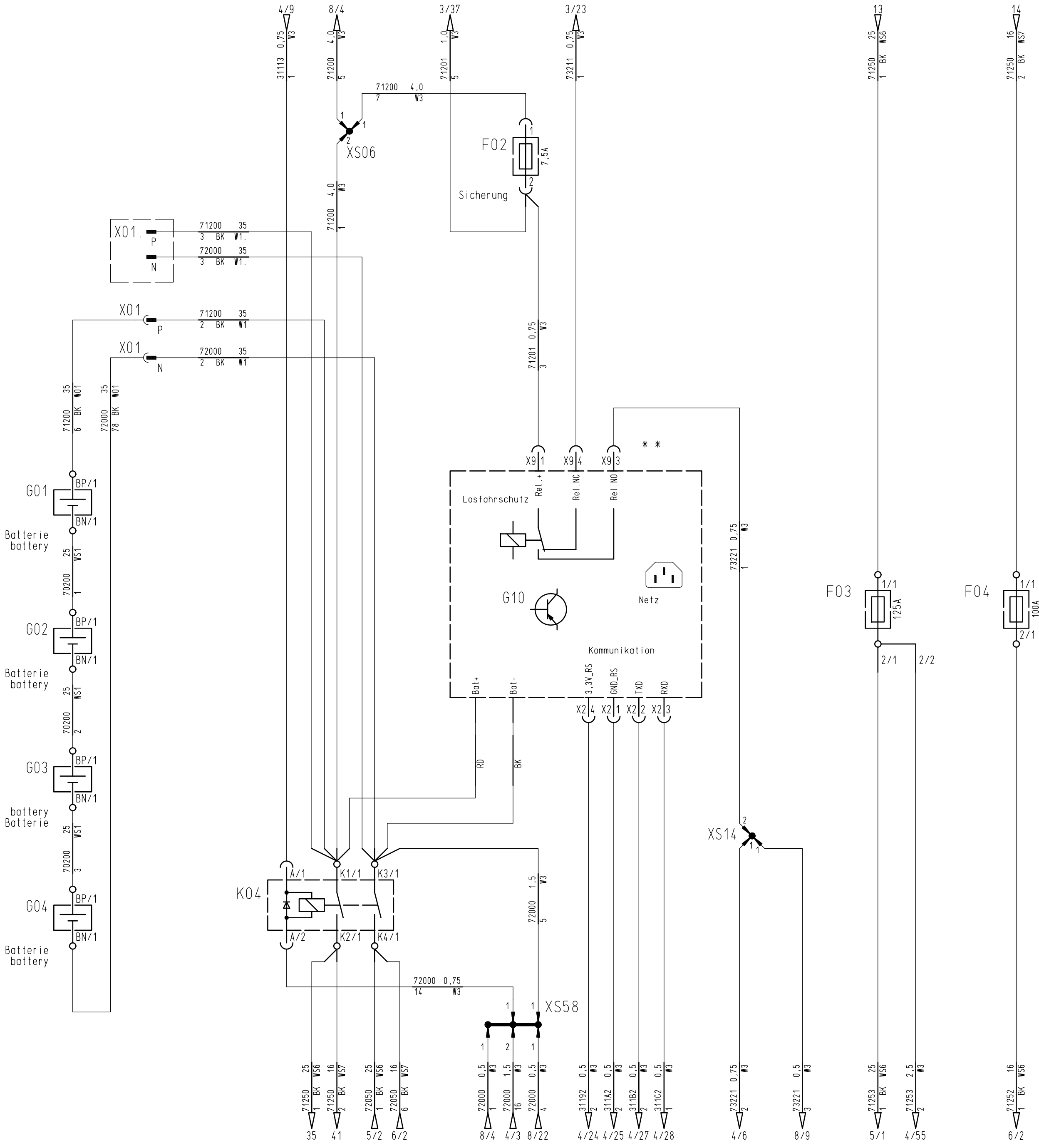
X100	VGND Display VGND connector display	X100	4/37						
X101	VGND MaSt VGND connector machine controller	X101	4/6						
X103	Steckverbinder 1pol. (W2<->W3) connector 1 pole (W2<->W3)	X103/1	3/20						
X108	Steckverbinder 8pol. (W2<->W42) connector 8 pole (W2<->W42)	X108/1 4/34 X108/2 4/35	X108/3 4/37 X108/4 4/38	X108/5 +/- X108/6 +/-	X108/7 +/- X108/8 +/-				

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

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	
XS06	ussp USSP	-	2 /14	
XS07	Stossverbinder butt joint	-	5 /20	
XS08	USSP ussp	-	3 /18	
XS09	USSP ussp	-	3 /26	
XS11	USSP ussp	-	6 /11	
XS12	USSP ussp	-	5 /11	
XS13	USSP ussp	-	5 /13	
XS14	USSP ussp	-	2 /30	
XS40	USSP ussp	-	4 /54	
XS41	USSP ussp	-	4 /19	
XS42	USSP ussp	-	4 /20	
XS58	USSP ussp	-	2 /21	

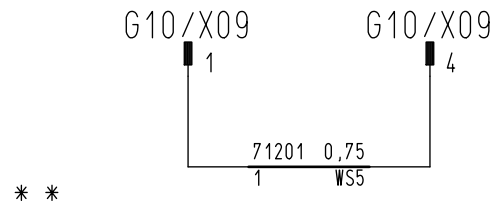
Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
	Flachbandkabel ribbon cable	90680059		
W1	Kabelbaum W1 cable harness W1	97137228		
W1.	Kabelbaum W1 cable harness W1	97158448		
W2	Kabelbaum W2 cable harness W2	97163026		
W3	Kabelbaum W3 cable harness W3	97161855		
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		
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		

		Integrated acc.		4 181-04	23.09.19	Ri	2019 Drawn by Verified	Date 04.07.	Name Ri	B120R		Name		 D-23840 Bad Oldesloe		Drawing Number 9 104 0956		
										Replacem. for 91037861		Schaltplan B120 / Circuit diagram B120						
A2		No.	Number appears	Change No.	Date	Name	Standard			Change No. 3650-39		For this drawing we reserve all rights (acc. DIN ISO 16016)		KAB1 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 1
				0	5	10	15	20	25	30	35	40	45	50	55	60	65	70



Legende

- F02 Sicherung Steuerspannung 7,5A
controller fuse 7,5A
- F03 Sicherung Leistung 125A
power fuse 125A
- F04 Sicherung Fahrsteuerung 100A
drive controller fuse 100A
- G01 Batterie
battery
- G02 Batterie
battery
- G03 Batterie
battery
- G04 Batterie
battery
- G10 Einbau-Ladegerät 35A
onboard charger 35A
- G10/X09 Brückenstecker 4pol.
bridge plug 4 pole
- K04 Hauptrelais
main contactor
- X01 Batteriestecker 160A
battery connector 160A
- X01. Batteriestecker SR175
battery connector SR175
- XS06 USSP
ussp
- XS14 USSP
ussp
- XS58 USSP
ussp

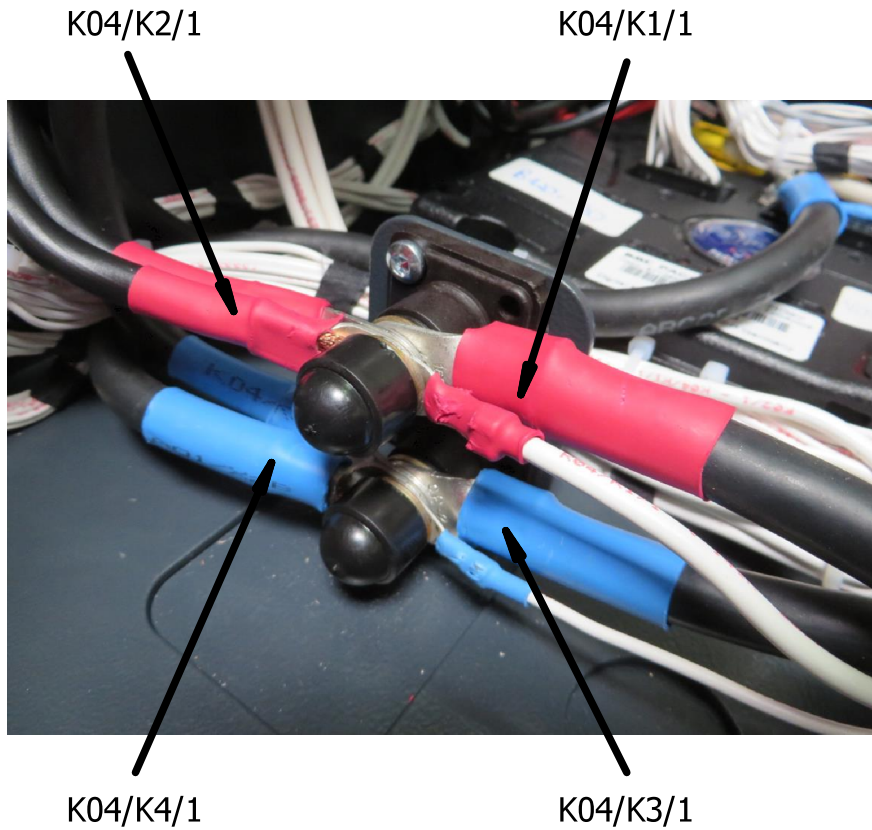


Bei Variante Übersee
Stecker G10.X09 an Stecker für
G10.X9 anschließen.

at variant overseas
connect G10.X09 at connector for
G10.X9.

Bei Variante Übersee entfallen das Einbauladgerät G10
und das Hauptrelais K04. Anstelle des Hauptrelais sind
zwei isolierte Bolzen montiert. Anschliessen wie unten
dargestellt. Auf Steckverbinder G10/X9 den Brückenstecker
(Kabelsatz WS5) aufstecken (Losfahrschutz).

in the overseas variant, the onboard charger G10
and the main contactor K04 are omitted. Two insulated bolts are
mounted instead of the main contactor. Connect as shown
below. Attach the bridge plug (cable harness WS5) to the
plug connector (start protection)



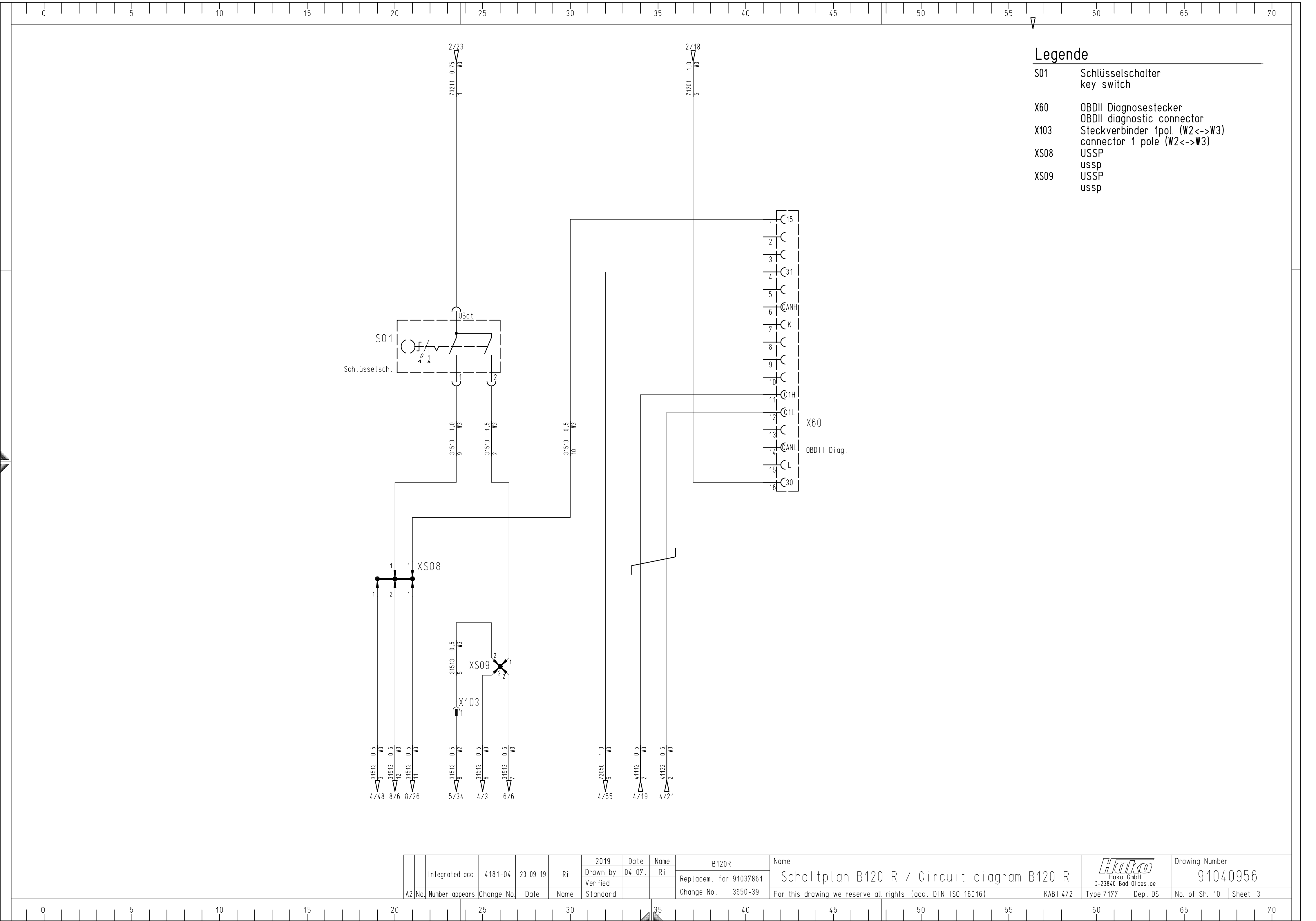
Auf dem oberen Bolzen (+ Potenzial)
Adern mit der Beschriftung auflegen:
von links: K04/K2/1
von rechts: K04/K1/1

on the top bolt (+ potential)
connect the wires to the label
from left: K04/K2/1
from right: K04/K1/1

Auf dem unterem Bolzen (- Potenzial)
Adern mit der Beschriftung auflegen:
von links: K04/K4/1
von rechts: K04/K3/1

on the lower bolt (- potential)
connect the wires to the label
from left: K04/K4/1
from right: K04/K3/1

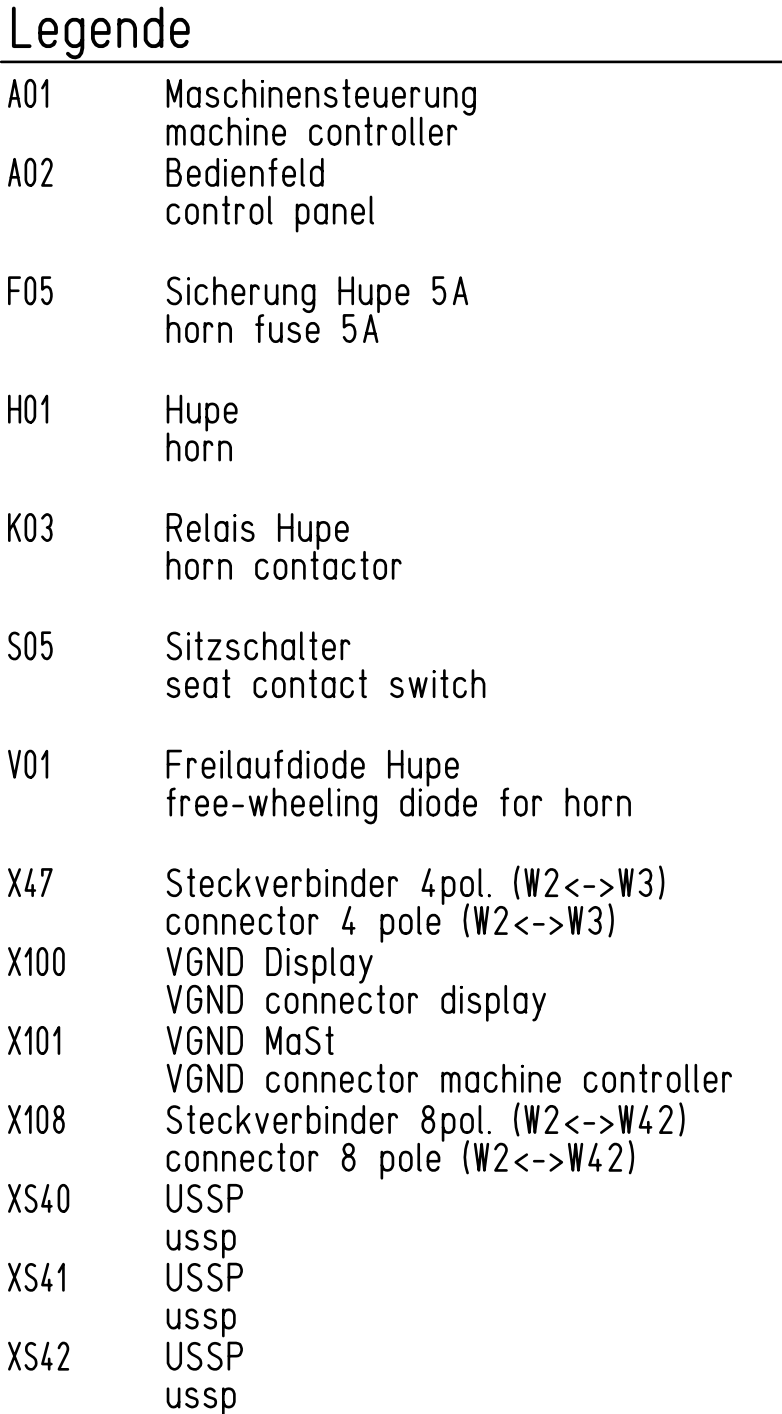
A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 04.07.	Name Ri	B120R Replacem. for 91037861 Change No. 3650-39	Name Schaltplan B120 R / Circuit diagram B120 R For this drawing we reserve all rights (acc. DIN ISO 16016)	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91040956		
KABI 472												Type 7177	Dep. DS	No. of Sh. 10	Sheet 2



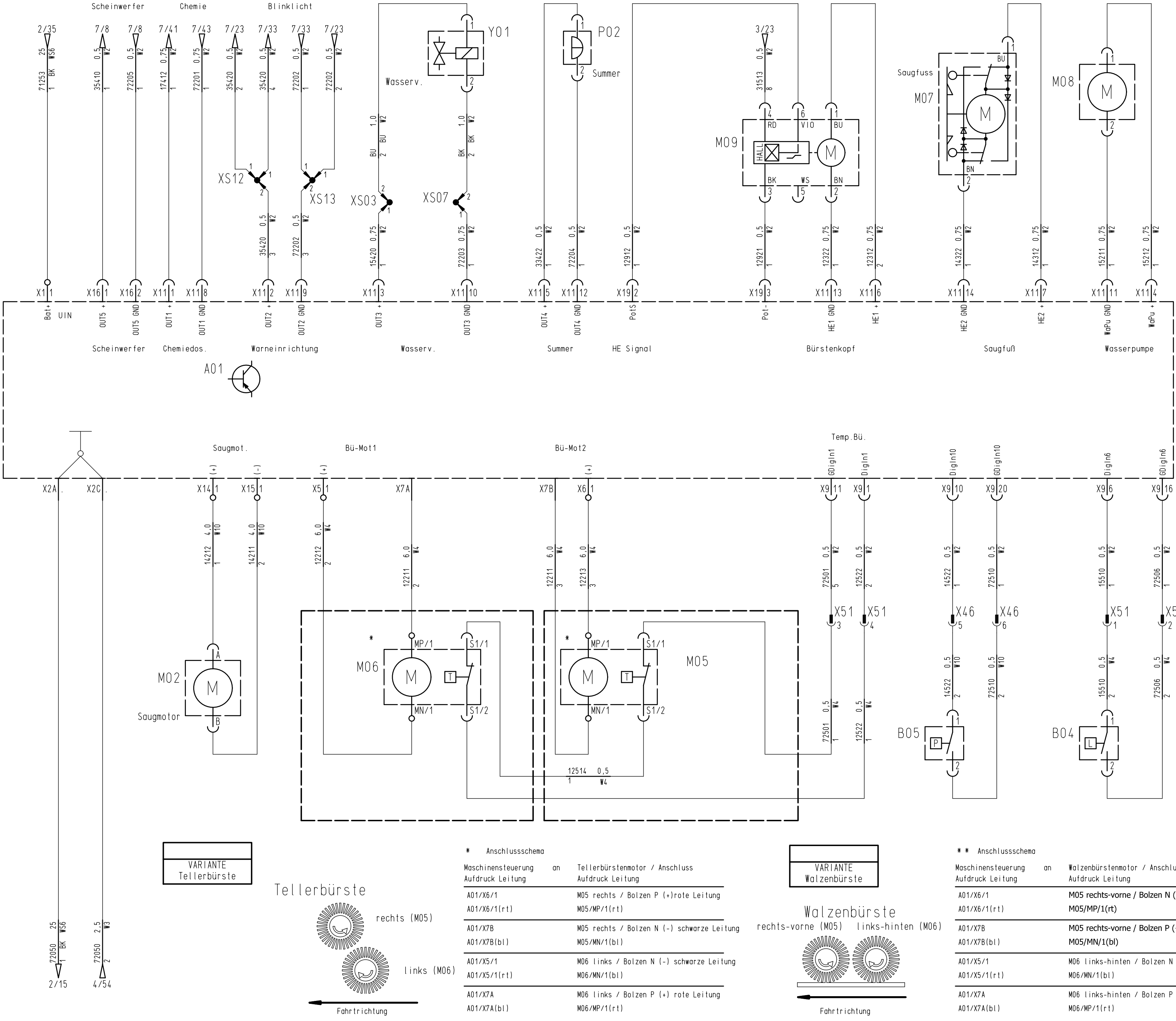
Legende

- 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	2019	Date	Name	B120R	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number			
						Drawn by	04.07.	Ri	Replacem. for 91037861	Schaltplan B120 R / Circuit diagram B120 R		91040956			
						Verified									
						Standard			Change No. 3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 3



		Integrated acc.	4181-04	23.09.19	Ri	2019 Drawn by Verified	Date 04.07 Ri	B120R	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91040956	
								Replacem. for 91037861	Schaltplan B120 R / Circuit diagram B120 R			
A2	No.	Number appears	Change No.	Date	Name	Standard		Change No. 3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016)		KAB1 472	Type 7177 Dep. DS



- 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

Tellerbürste



rechts (M05)



links (M06)

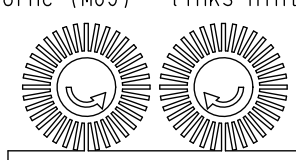
Fahrtrichtung

* Anschlusschema

Maschinensteuerung	an	Tellerbürstenmotor / Anschluss
A01/X6/1		M05 rechts / Bolzen P (+)rote Leitung
A01/X6/1(rt)		M05/MP/1(rt)
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

Walzenbürste



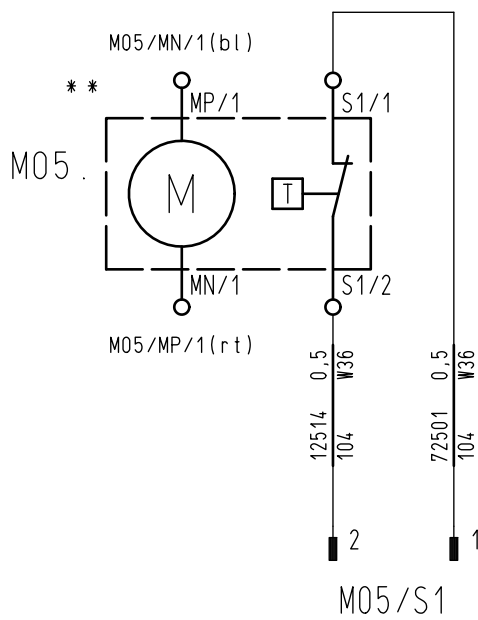
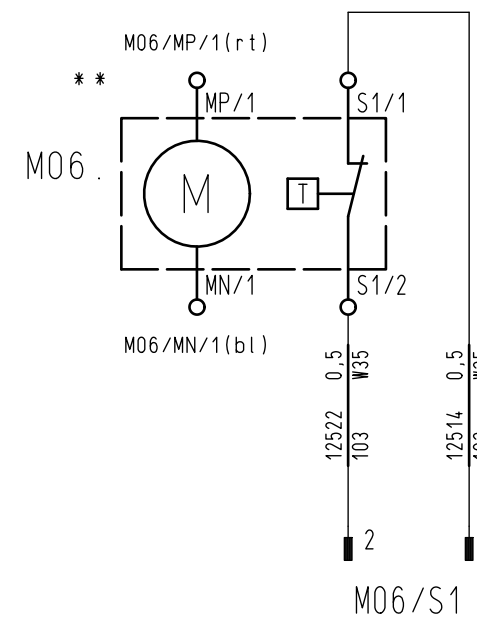
rechts-vorne (M05) links-hinten (M06)

Fahrtrichtung

** Anschlusschema

Maschinensteuerung	an	Walzenbürstenmotor / Anschluss
A01/X6/1		M05 rechts-vorne / Bolzen N (-)
A01/X6/1(rt)		M05/MP/1(rt)
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)

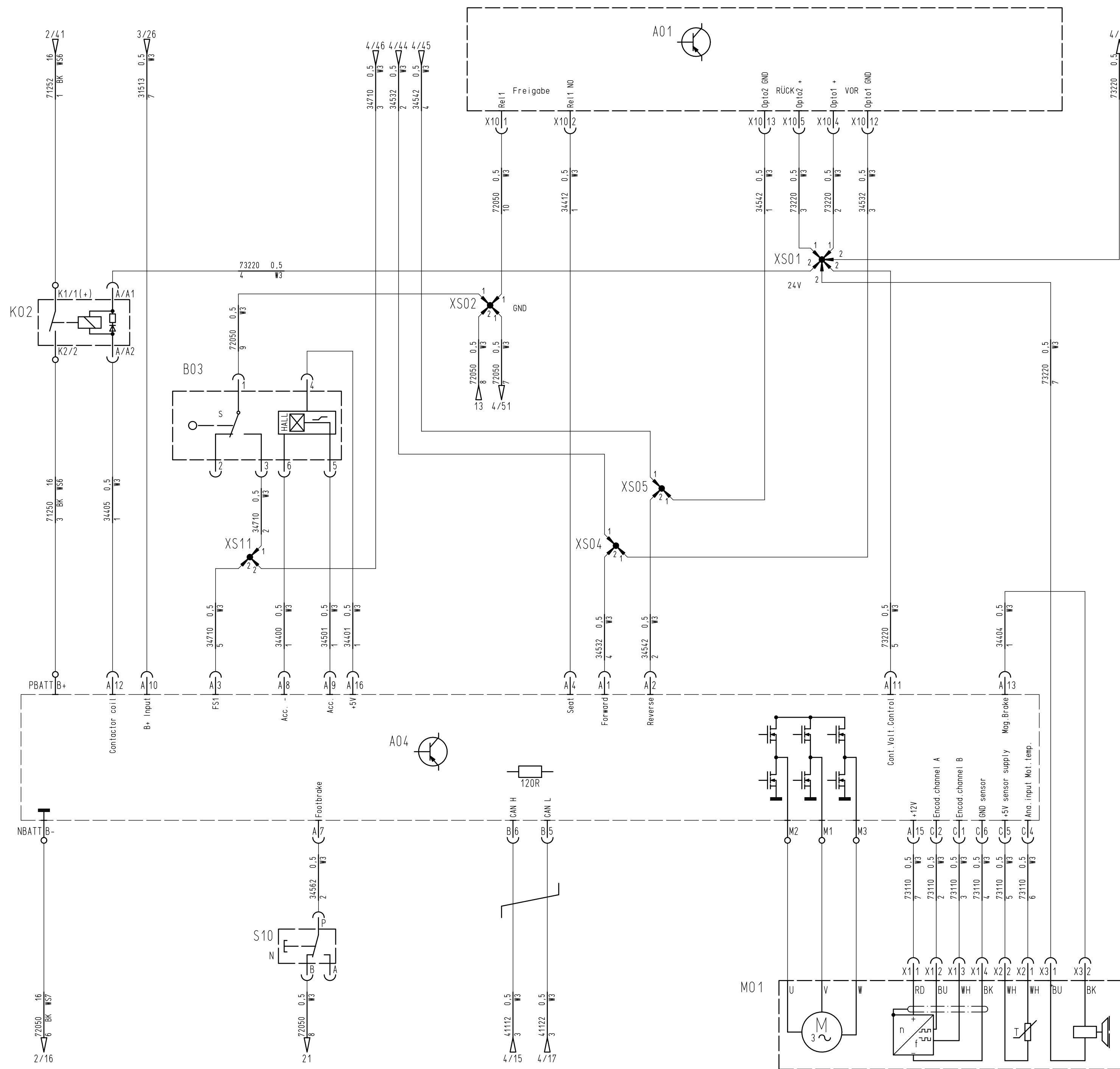
Variante Walzenbürstendeck
variante cylindrical brush deck



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 04.07.	Name Ri	B120R Replacem. for 91037861 Change No. 3650-39	Name Schaltplan B120 R / Circuit diagram B120 R For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 5



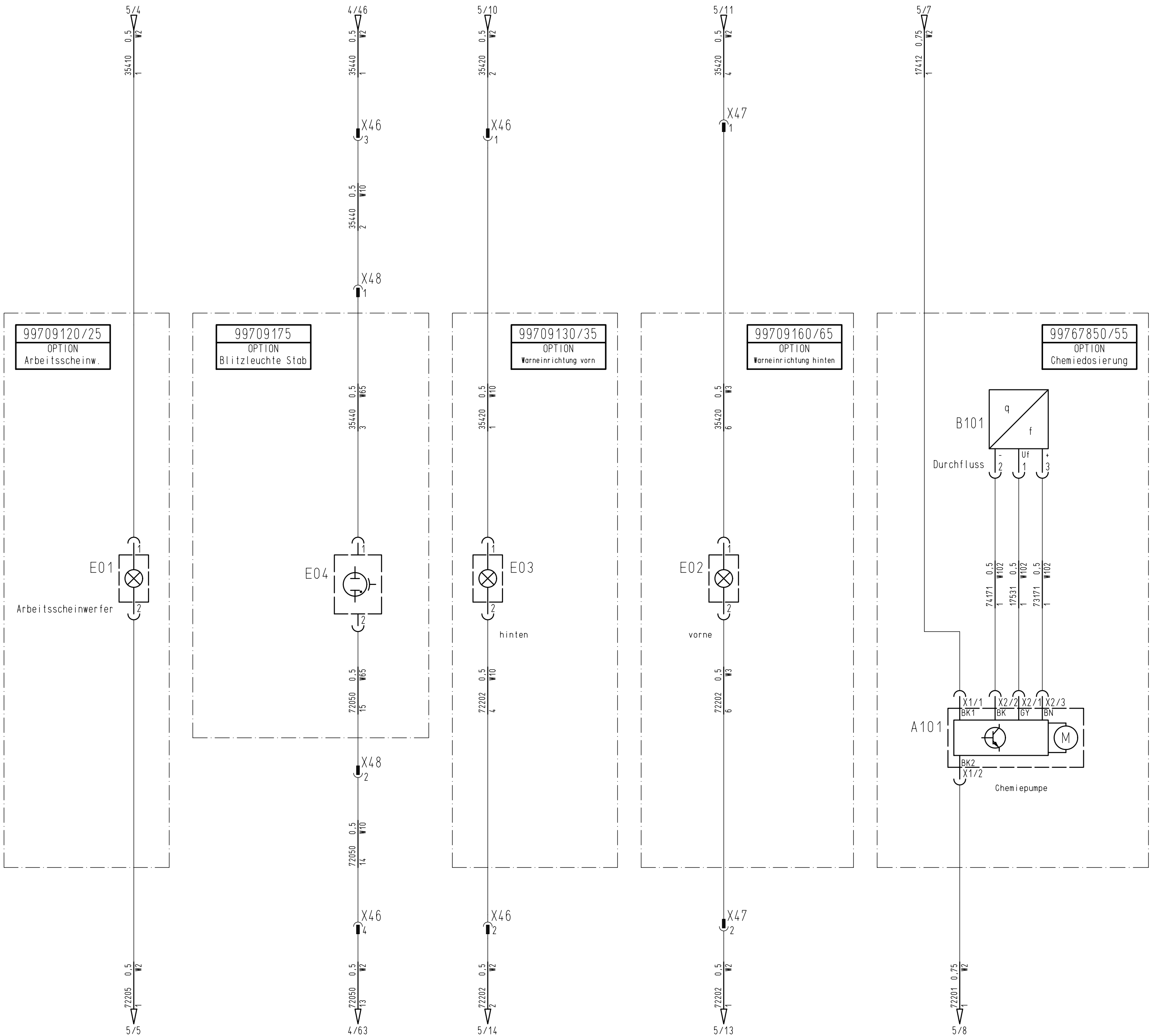
Drawing Number
91040956



Legende

A01	Maschinensteuerung machine controller
A04	Fahrsteuerung drive controller
B03	Fahrgeber accelerator
K02	Relais Fahrsteuerung drive control contactor
M01	Fahrantrieb drive motor
S10	Bremstaster brake switch
XS01	USSP ussp
XS02	USSP ussp
XS04	USSP ussp
XS05	USSP ussp
XS11	USSP ussp

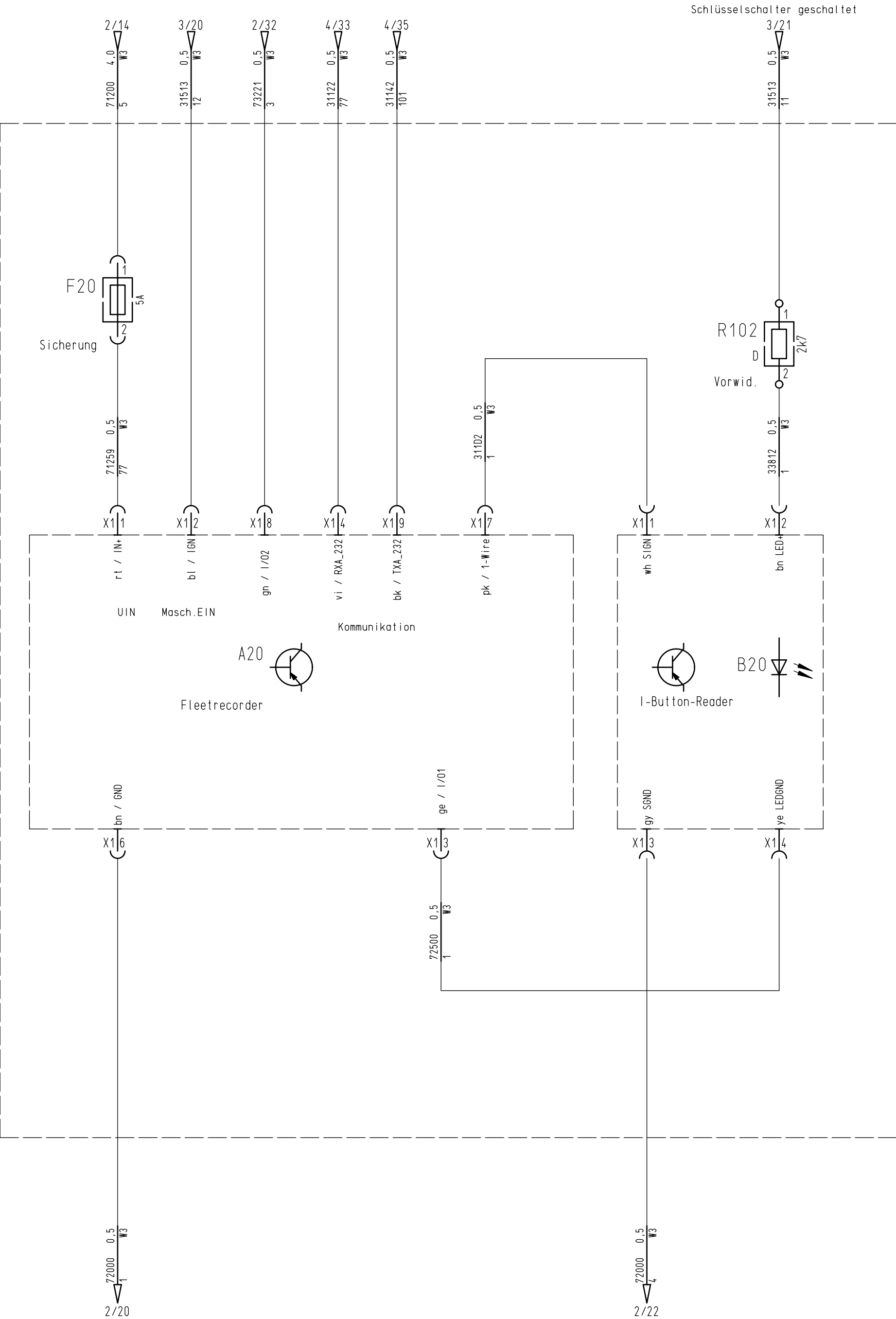
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A2	No.	Number appears	Change No.	Date	Name	Standard			Change No. 3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 6



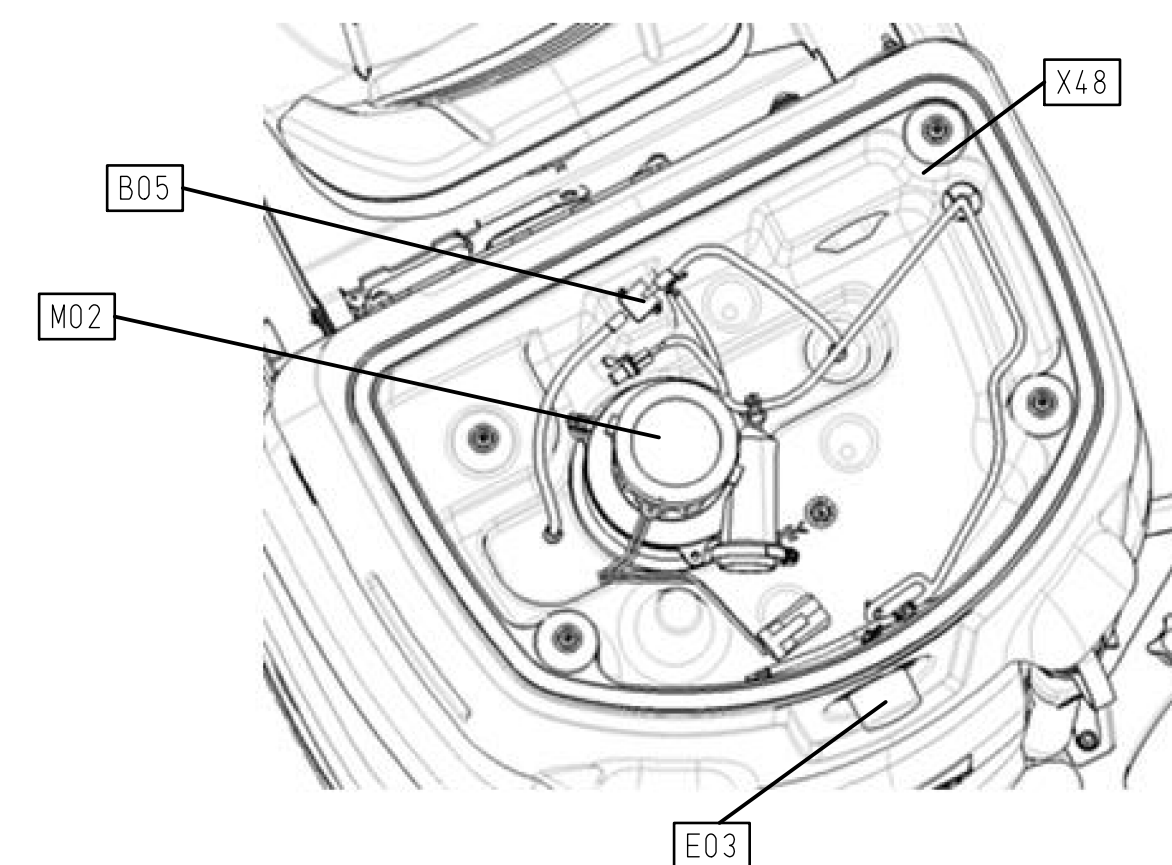
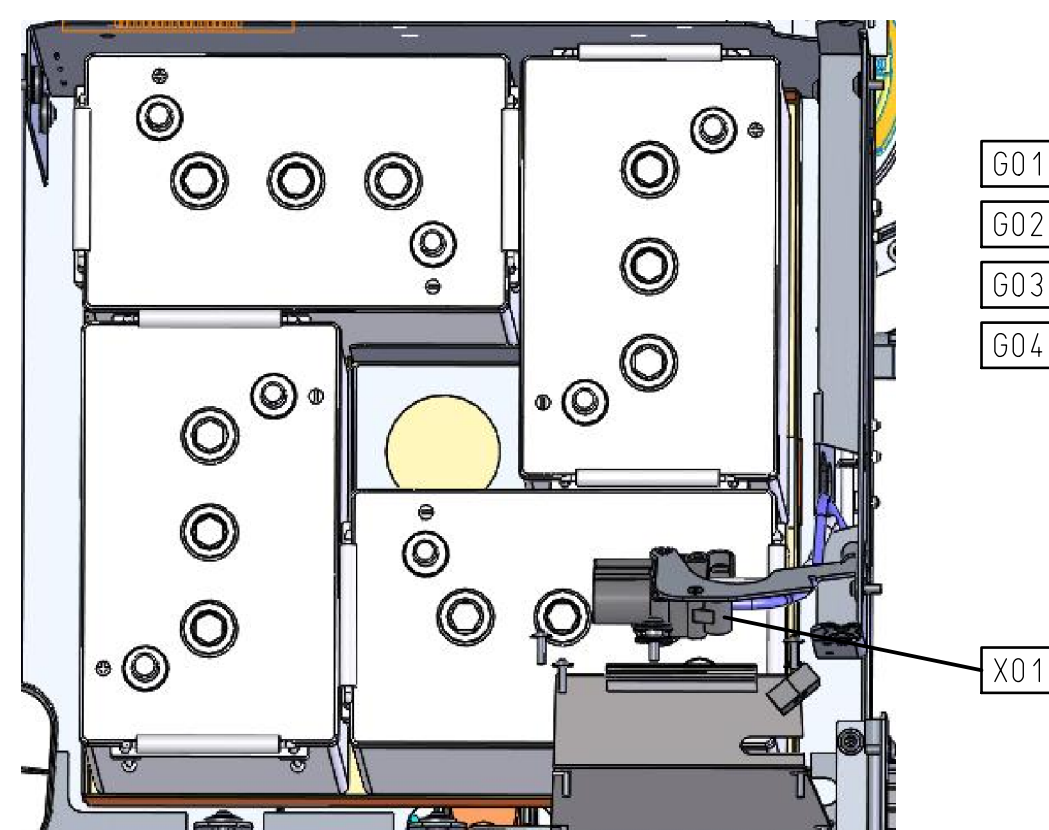
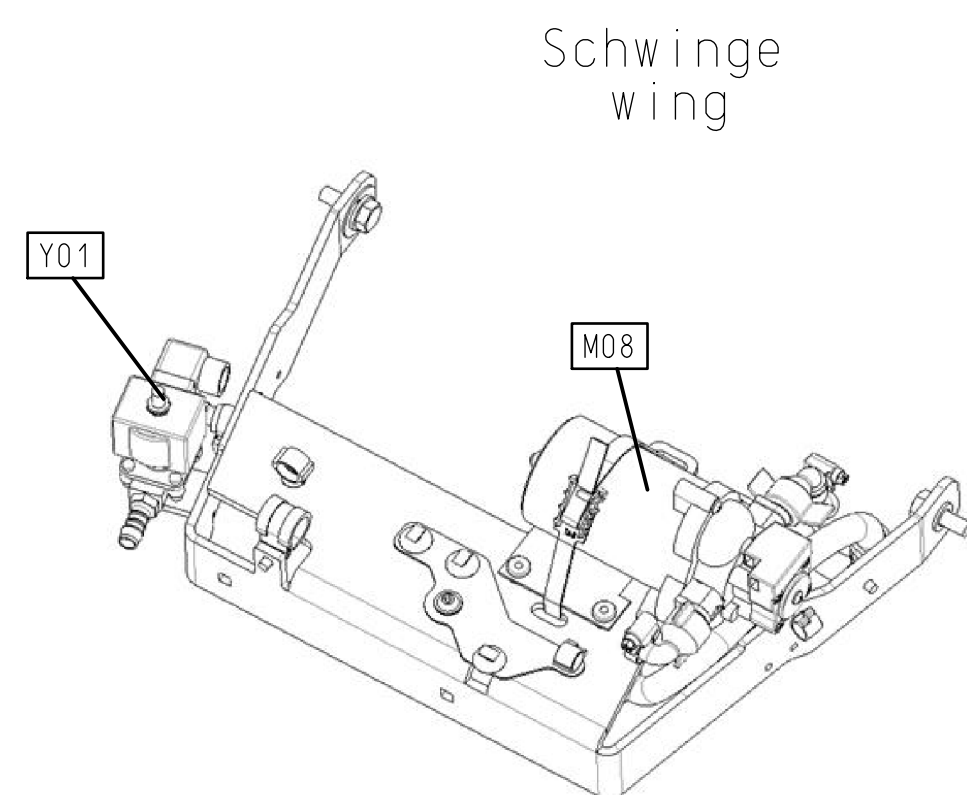
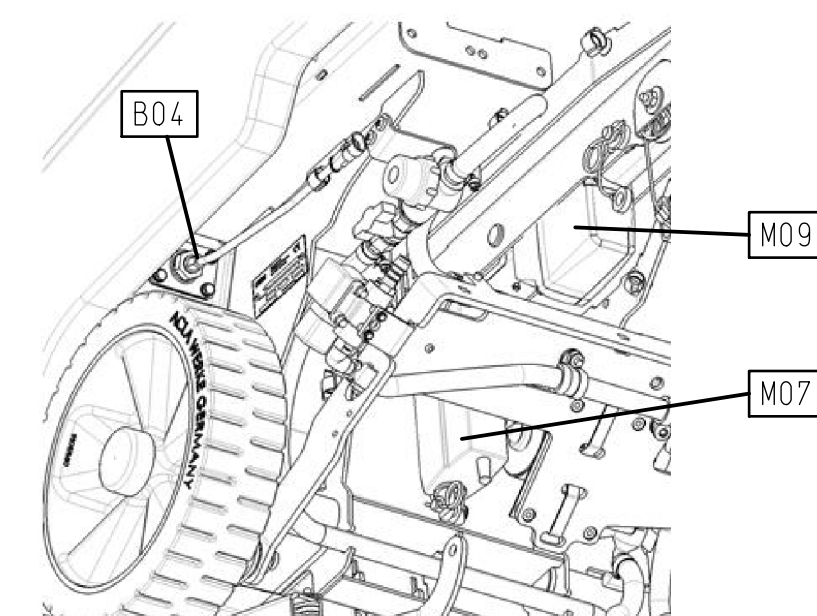
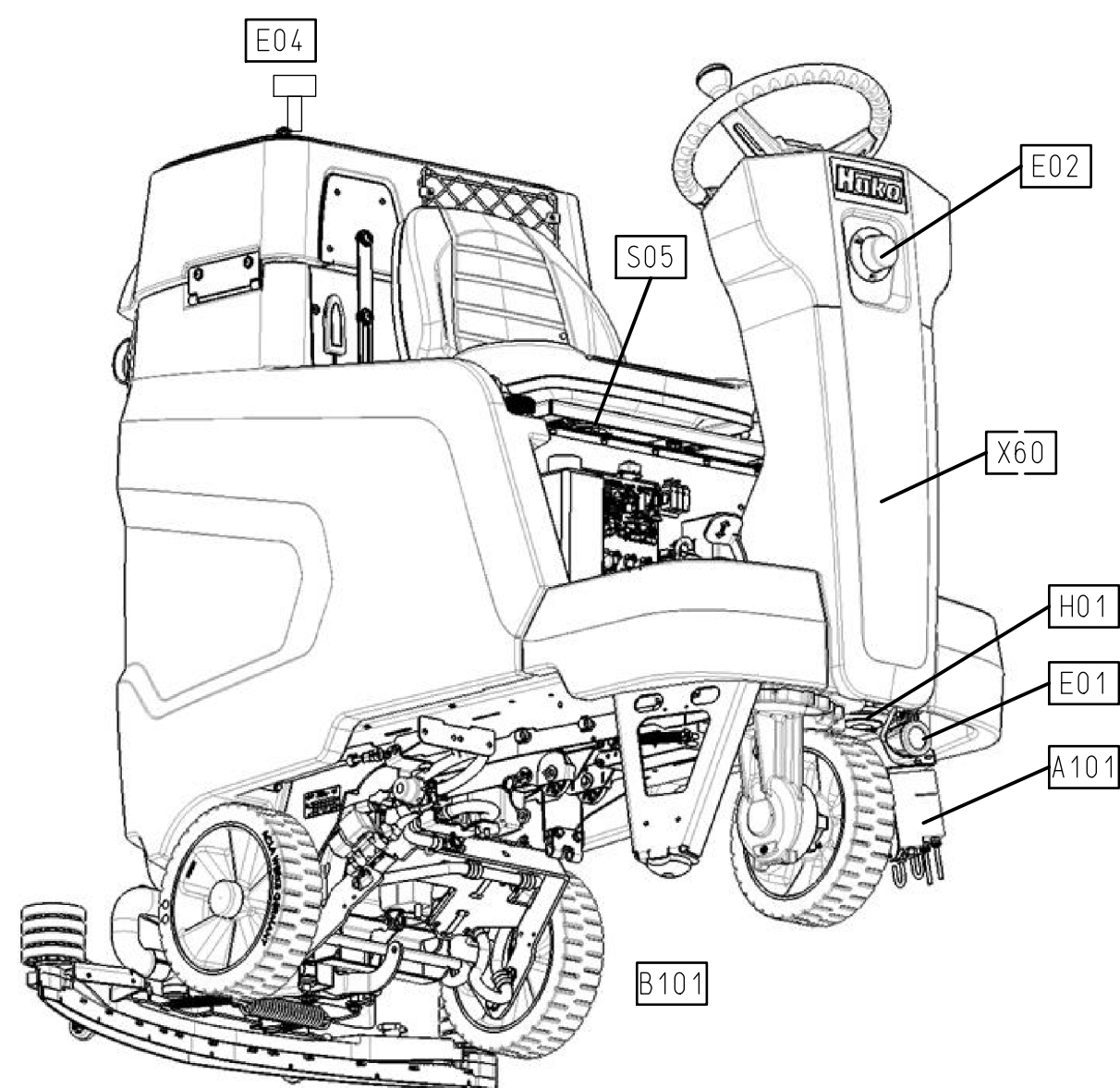
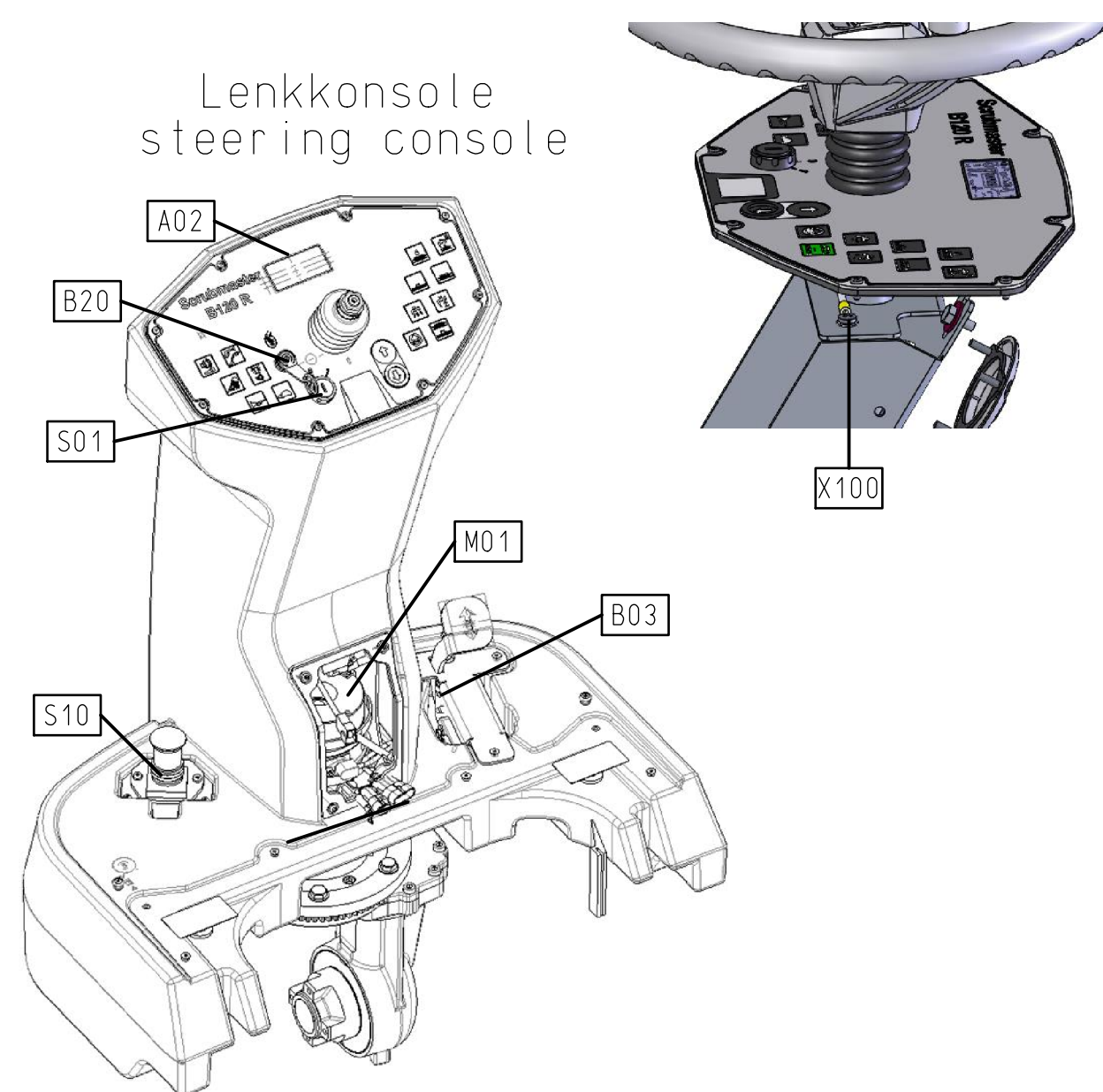
- Legende**
- A101 Chemiepumpensteuerung
chemical pump controller
 - B101 Durchflussmesser
flow sensor
 - E01 Arbeitsscheinwerfer
working headlight
 - E02 Warneinrichtung Front
warning beacon front
 - E03 Warneinrichtung Heck
warning beacon back
 - E04 Blitzleuchte am Stab
warning beacon on the rod
 - 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)

A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 04.07.	Name Ri	B120R Replacem. for 91037861 Change No. 3650-39	Name Schaltplan B120 R / Circuit diagram B120 R For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 7	Drawing Number 91040956





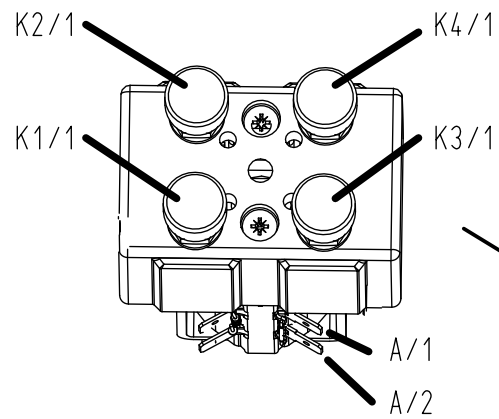
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						Drawn by	04.07.	Ri	Replacem. for 91037861	Schaltplan B120 R / Circuit diagram B120 R					
						Verified									
						Standard			Change No. 3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 8



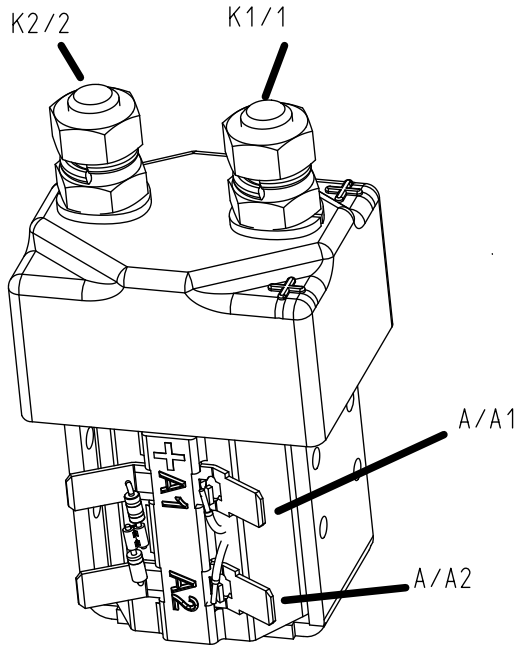
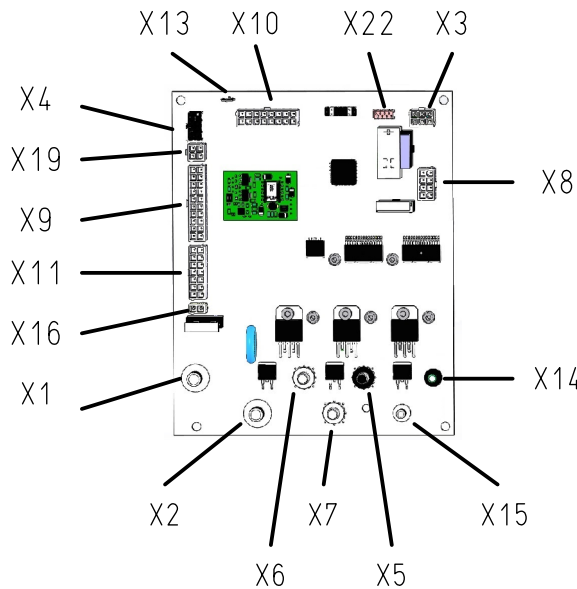
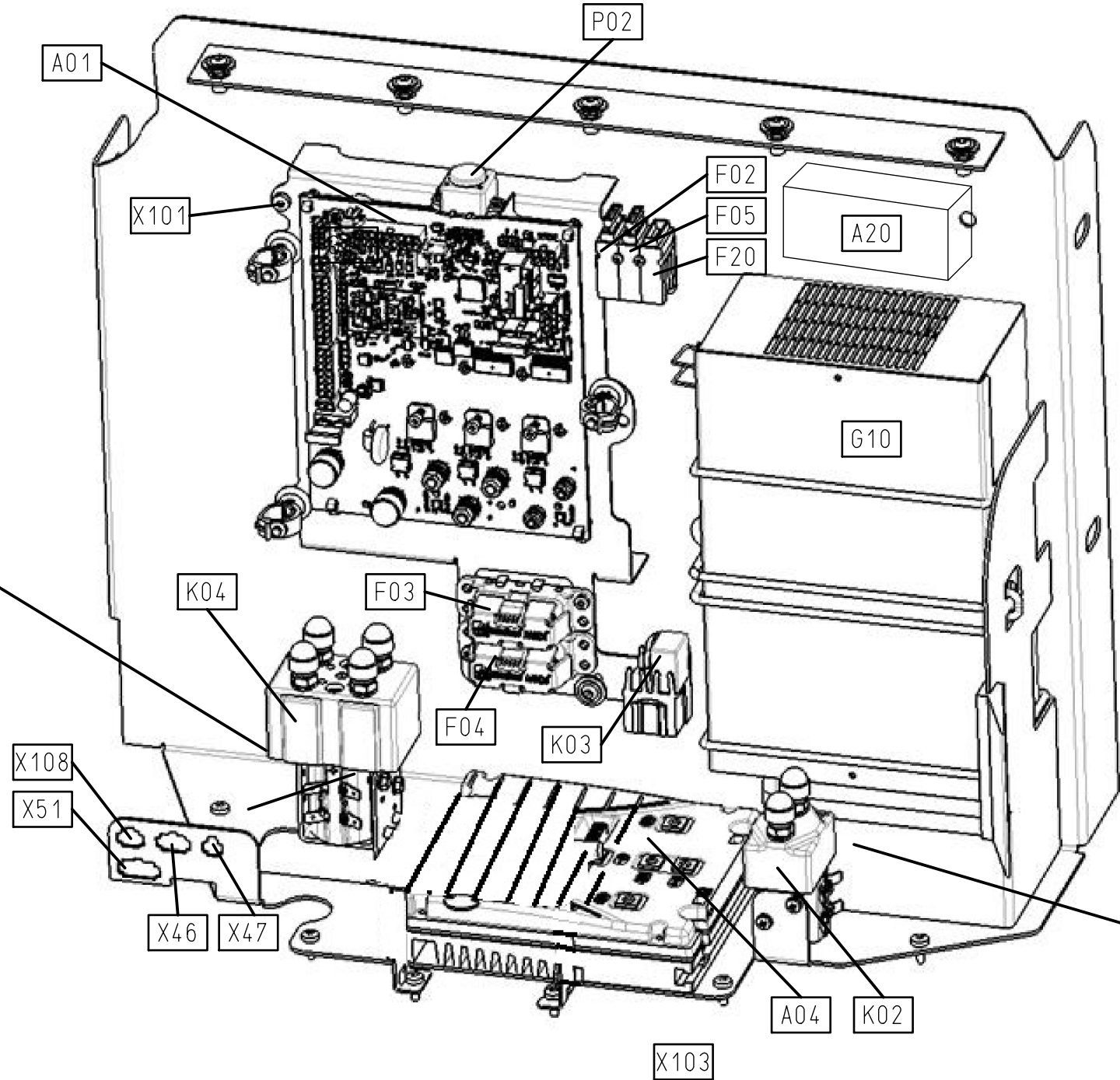
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A2	No.	Number appears	Change No.	Date	Name	Standard			Change No. 3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016) KABI 472	Type 7177 Dep. DS	No. of Sh. 10 Sheet 9

E-Blech
electronic compartment

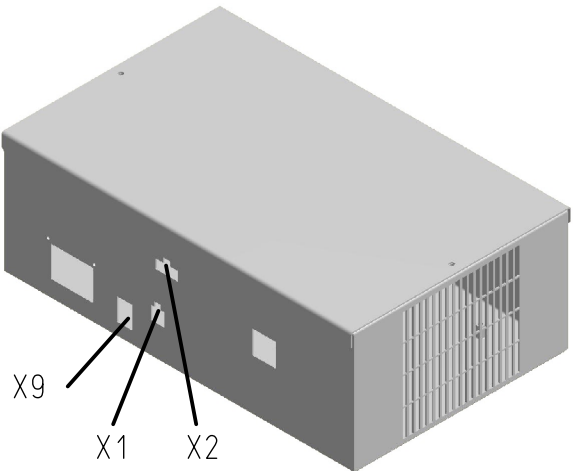
Maschinensteuerung A01
machine control A01



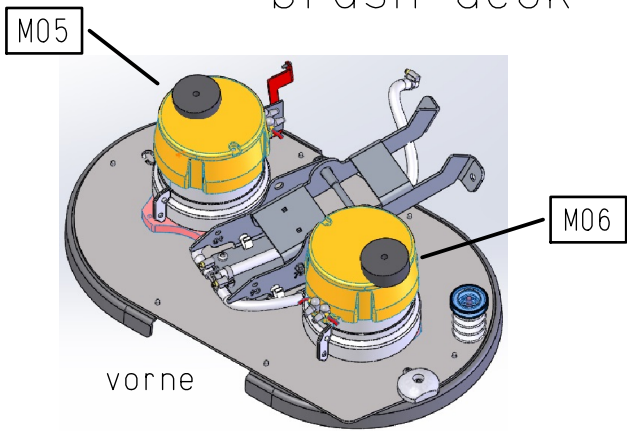
Variante Übersee
variant overseas



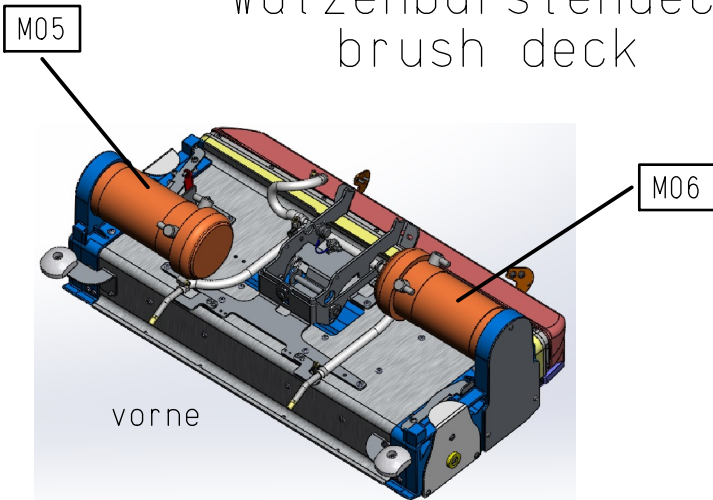
Ladegerät G10
onboard charger G10



Tellerbürstendeck
brush deck



Walzenbürstendeck
brush deck



	Integrated acc.	4181-04	23.09.19	Ri	2019	Date	Name	B120R	Name	Schaltplan B120 R / Circuit diagram B120 R	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91040956			
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					Verified										
A2	No.	Number appears	Change No.	Date	Name	Standard		Change No.	3650-39	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 7177	Dep. DS	No. of Sh. 10	Sheet 10