

	0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362		
						Drawn by	21.08.	DK						
						Verified								
A2	No.	Number appears	Change No.	Date	Name	Standard			Replacem. for	Schaltplan / circuit diagram				
									Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 1470 Dep. DS	No. of Sh. 38	Sheet 1

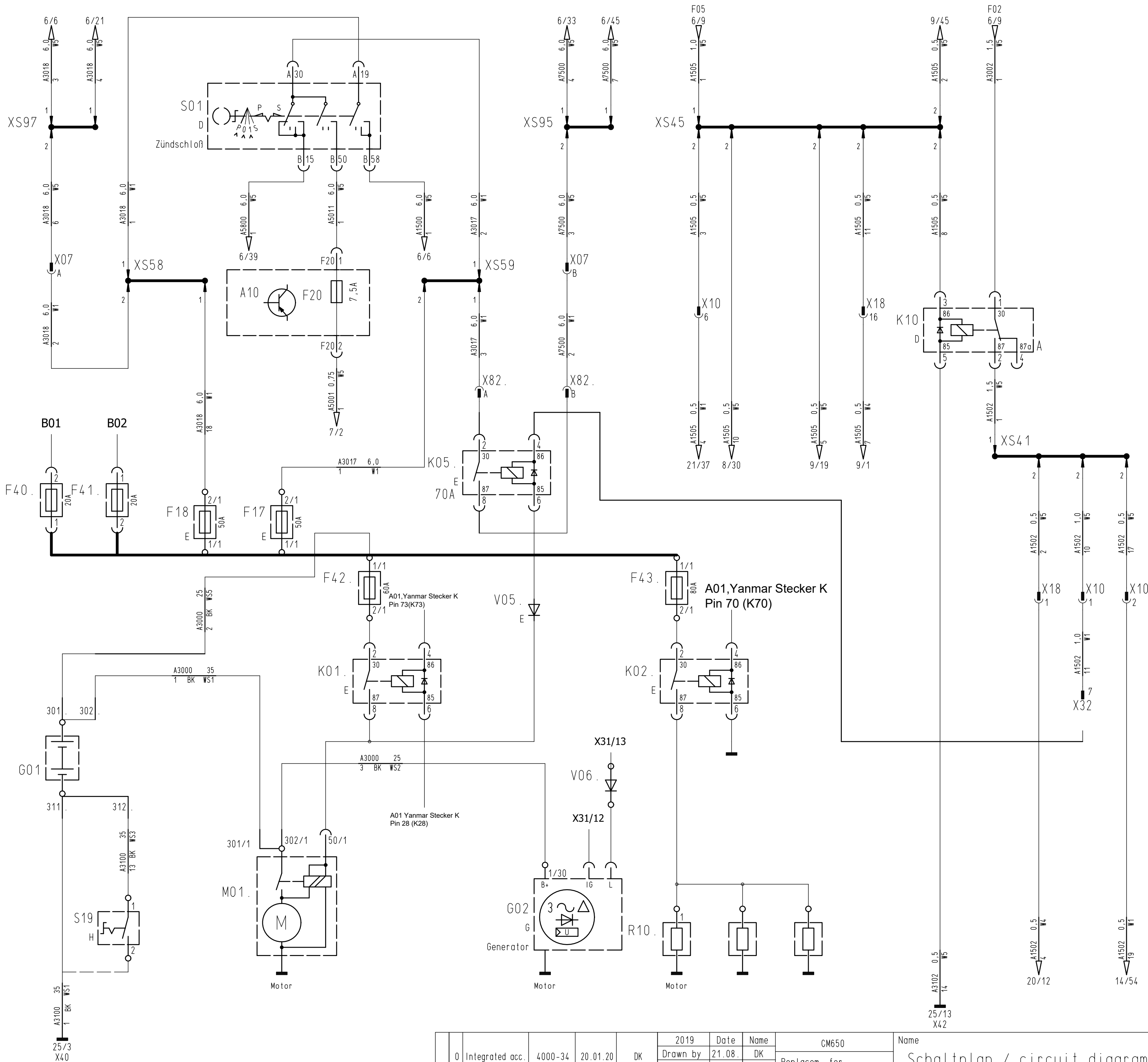
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Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.	Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.	Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
K14A	Relais Bremslicht relay brake light	90539305	16/16		S19	Batterietrennschalter battery main switch	92021278	5/6		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		14	
M01	Anlasser starter	LF Yanmar	30/15		S21	Kreuztaster Hydraulikfunktionen joystick switch hydraulics	90623547	14/30		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		15	
M01.	Anlasser starter	LF Yanmar	5/12		S22	Taster Arbeitsbetrieb pushbutton switch working mode	90505686	14/11		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		16	
M02	Kraftstoffpumpe fuel pump	LF Yanmar	29/30		S23	Drehencoder mit Taste encoder switch with pushbutton	90600115	14/15		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		26	
M03	Sprühwasserpumpe spraying pump	97092258	15/18		S29	Schalter Arbeitssch. Kabine hinten switch working lights cabin back	19256684	28/11		X12	Steckverbinder 10pol. (W1<-W6) connector 10 pole (W1<->W6)		7	
M04	Kondensatorlüfter (Var.Comfort) condensor fan (var.Comfort)	90679416	18/32		S30	Schalter Arbeitssch. Saugmund switch working light suction mouth	19256684	28/24		X12	Steckverbinder 10pol. (W1<-W6) connector 10 pole (W1<->W6)		8	
M05	Scheibenwischermotor windscreen wiper motor	90603762	10/46		S31	Taster Behälter 2 Hand Fahrgestell pushbutton container 2'nd hand	97095608	22/47		X12	Steckverbinder 10pol. (W1<-W6) connector 10 pole (W1<->W6)		10	
M06	Scheibenwaschpumpe windscreen washer pump	90783408	10/34		S32	Taster Behälter heben Fahrgestell pushbutton switch hopper up	97095608	22/48		X12	Steckverbinder 10pol. (W1<-W6) connector 10 pole (W1<->W6)		26	
M07	Heizungsgebläse (Var. Classic) heating fan (var. Classic)	90782780	18/4		S33	Taster Behälter senken Fahrgestell pushbutton switch hopper down	97095608	22/41		X13	Steckverbinder 22pol. (W6<-W5) connector 22 pole (W6<->W5)		8	
oder /or	Heizungsgebläse (Var. Comfort) heating fan (var. Comfort)	90679416	18/4		T01	USB Steckdose USB plug socket	92053040	12/52		X13	Steckverbinder 22pol. (W6<-W5) connector 22 pole (W6<->W5)		10	
P01	Anzeigeeinheit multifunction display	90686403	9/1		V02	Diode diode	-	14/31		X13	Steckverbinder 22pol. (W6<-W5) connector 22 pole (W6<->W5)		11	
P02	Bildschirm display	90850876	22/10		V05	Diode diode	-	5/25		X13	Steckverbinder 22pol. (W6<-W5) connector 22 pole (W6<->W5)		12	
R10-12	Vorglühkerzen glow plugs	LF Yanmar	30/29		V05	Diode diode	-	30/9		X14	Steckverbinder 1pol. (W5<-W10) connector 1 pole (W5<->W10)		15	
R10-12	Vorglühkerzen glow plugs	LF Yanmar	5/31		V06.	Diode diode		5/28		X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)		11	
R13	Widerstand 120R resistor 120Ohm	-	15/23		V06	Diode diode	-	29/42		X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)		13	
R14	Widerstand 120R resistor 120Ohm (CAN external)	-	32/23		Yanmar Steckverbinder im Kabelbaum W9 Yanmar connectors in wire harness W9					X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)		14	
R17	Spiegelheizung links mirror heating left	97118723	20/17		ST5	Anschlusstecker 6pol. (W9) connector 6 pole (W9)		30		X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)		15	
R18	Spiegelheizung rechts mirror heating right	97118723	20/21		ST7	Anschlusstecker 2pol. (W9) connector 2 pole (W9)		30		X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)		28	
R20	Widerstand 1k resistor 1kOhm	-	14/46		ST8	Anschlusstecker 2pol. (W9) connector 2 pole (W9)		30		X17	Steckverbinder 4pol. (W2<-W5) connector 4 pole (W2<->W5)		8	
R21	Widerstand 1k resistor 1kOhm	-	14/41		ST30	Anschlusstecker 1pol. (W9) connector 1 pole (W9)		30		X17	Steckverbinder 4pol. (W2<-W5) connector 4 pole (W2<->W5)		26	
R22	Widerstand 120R resistor 120Ohm	-	29/52		ST36	Steckverbinder 8pol. . (W9<->Motor KB) connector 8 pole (W9<->motor wh)		30		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		5	
R102	Widerstand 1k resistor 1kOhm	-	23/46		ST37	Steckverbinder 12pol. . (W9<->Motor KB) connector 12 pole (W9<->motor wh)		30		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		9	
R105	Widerstand 470R resistor 470R	-	26/4		ST38	Steckverbinder 12pol. . (W9<->Motor KB) connector 12 pole (W9<->motor wh)		31		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		11	
R106	Widerstand 1k resistor 1kOhm	-	26/8		ST39	Steckverbinder 12pol. . (W9<->Motor KB) connector 12 pole (W9<->motor wh)		31		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		12	
R107	Widerstand 1k3 resistor 1k30hm	-	26/12		ST53	Anschlusstecker 2pol. (W9) connector 2 pole (W9)		29		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		15	
R108	Widerstand 1k resistor 1kOhm	-	26/16		ST64	Anschlusstecker 6pol. (W9) connector 6 pole (W9)		29		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		18	
R109	Widerstand 1k resistor 1kOhm	-	14/29							X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		20	
S01	Zündstartschalter starter switch	90432998	5/14		X06	Steckverbinder 6pol.für SOW (W5) connector 6 pole for SOW (W5)		6		X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)		28	
S02	Warnblinkschalter switch warning flasher	92050673	8/8		X07	Steckverbinder 2pol. (W1<->W5) connector 2 pole (W1<->W5)		5		X19	Steckverbinder 6pol. (W5<-W4) connector 6 pole (W5<->W4)		11	
S03	Lenkstockschalter steering wheel switch	90122219	8/38		X08	Steckverbinder 16pol. (W3<-W5) connector 16 pole (W3<->W5)		14		X19	Steckverbinder 6pol. (W5<-W4) connector 6 pole (W5<->W4)		12	
S04	Schalter Arbeitsscheinwerfer switch work lights A-pillar a. cabin top	19256551	12/10		X09	Steckverbinder 8pol. (W1<-W2) connector 8 pole (W1<->W2)		26		X19	Steckverbinder 6pol. (W5<-W4) connector 6 pole (W5<->W4)		18	
S05	Taster Spiegelheizung pushbutton mirror heating	19256577	20/5		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		5		X24	Steckverbinder 4pol. (W4<-W15) connector 4 pole (W4<->W15)		20	
S06	Schalter Rundumkennleuchte switch beacon lamp	19256643	12/22		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		7		X28	Steckverbinder 6pol. (W14<-W5) connector 6 pole (W14<->W5)		21	
S07	Taster Motordrehzahl Tip-Up / Down push-button engine speed tip-up / down	19256478	10/4		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		9		X31	Steckverbinder 16pol. (W1<-W9) connector 16 pole (W1<->W9)		7	
S08	Lichtschalter switch light	19256650	11/6		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		13		X31	Steckverbinder 16pol. (W1<-W9) connector 16 pole (W1<->W9)		14	
S09	Lenkstockschalter Komfort steering wheel switch comfort	92709096	24/13		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		18		X31	Steckverbinder 16pol. (W1<-W9) connector 16 pole (W1<->W9)		18	
S10	Schalter Scheibenwischer switch windscreen wiper	19256601	10/30		X10	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		26		X31.	Steckverbinder 16pol. (W1<-W9) connector 16 pole (W1<->W9)		29	
S11	Taster Behälter heben/senken pushbutton switch hopper up/down	19256619	14/5		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		7		X32	Steckverbinder 12pol. (W1<-W9) connector 12 pole (W1<->W9)		5	
S12	Schalter Nebelschlußleuchte switch rear fog light	19256585	11/46		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		8		X32	Steckverbinder 12pol. (W1<-W9) connector 12 pole (W1<->W9)		7	
S13	Schalter Klimaanlage (Var.Comfort) switch AC (var.Comfort)	19256668	18/15		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		10		X32.	Steckverbinder 12pol. (W1<-W9) connector 12 pole (W1<->W9)		29	
S14	DrehSchalter Heizungsgebläse rotary switch heating fan	90791146	18/6		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		11		X32.	Steckverbinder 12pol. (W1<-W9) connector 12 pole (W1<->W9)		30	
S15	Schalter Bremse switch brake	46604140002	26/43		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		12		X33	Steckverbinder 18pol. (W1<-W7) connector 18 pole (W1<->W7)		8	
S16	Taster Tempomat/Limiter push-button cruise control/limiter	19256676	26/10		X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)		13		X33	Steckverbinder 18pol. (W1<-W7) connector 18 pole (W1<->W7)		14	

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							Verified					Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 2
	A2	No.	Number appears	Change No.	Date	Name	Standard											

Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.	Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.	Teil Part	Beschreibung Description	Sachnummer Code no.	Position Sheet Pos.	Ort Loc.
X33	Steckverbinder 18pol. (W1<-W7) connector 18 pole (W1<->W7)		16		X69B	Steckverbinder 8pol. (W7<-W19) connector 8 pole (W7<->W19)		19		XS12	USSP (W5) ussp (W5)		8	
X33	Steckverbinder 18pol. (W1<-W7) connector 18 pole (W1<->W7)		21		X71	Buchse 8pol. Radio ISO-A (W14) jack 8 pole radio ISO-A (W14)		21		XS14	USSP (W5) ussp (W5)		13	
X34	Steckverbinder 14pol. (W1<-W7) connector 14 pole (W1<->W7)		8		X72	Buchse 8pol. Radio ISO-B (W14) jack 8 pole radio ISO-B (W14)		21		XS15	USSP 58 (W5) ussp 57 (W5)		6	
X34	Steckverbinder 14pol. (W1<-W7) connector 14 pole (W1<->W7)		13		X73	Steckverbinder 3pol. Video (W6) connector 3 pole camera (W6)		12		XS16	USSP 15 (W5) ussp 15 (W5)		6	
X34	Steckverbinder 14pol. (W1<-W7) connector 14 pole (W1<->W7)		16		X73A	Steckverbinder 3pol. Video connector 3 pole camera		22		XS20	USSP (W5) ussp (W5)		13	
X37	Steckverbinder 12pol. (W1<-W10) connector 12 pole (W1<->W10)		14		X75	Steckverb. 13pol. Bildschirm connector 13 pole display		22		XS21	USSP (W1) ussp (W1)		14	
X37	Steckverbinder 12pol. (W1<-W10) connector 12 pole (W1<->W10)		27		X76	Steckverb. 4pol. Kamera 1 connector 4 pole camera 1		22		XS24	Stossverbinder (W11) butt joint (N/W11)		17	
X39	Steckverbinder 4pol. (W7<-W30) connector 4 pole (W7<->W30)		22		X77	Steckverb. 4pol. Kamera 1 connector 4 pole camera 1		22		XS25	USSP (W10) ussp (W10)		15	
X40	Massebolzen M10 Fahrgestell ground bolt M10 chassis tail		25		X79	Steckverb. 4pol. Kamera 2 connector 4 pole camera 2		22		XS26	USSP (W10) ussp (W10)		15	
X41	Massebolzen M6 Elektrokasten ground bolt M6 electric box		25		X80	Steckverbinder 8pol. (W44<->W44) connector 8 pole (W44<->W44)		20		XS28	USSP (W5) ussp (W5)		25	
X42	Massebolzen M6 Seitenk. rechts ground bolt M6 console right		25		X82	Steckverbinder 2 pol. (W9<-W1) connector 2 pole (W9<->W1)		30		XS29	USSP (W1) ussp (W1)		25	
X43	Massebolzen M5 Kabinendach ground bolt M6 cabin roof right		25		X82.	Steckverbinder 2 pol. (W9<-W1) connector 2 pole (W9<->W1)		5		XS31	USSP (W10) ussp (W10)		13	
X44	Masseanschluß M6 Kehrversatz ground bolt M6 sweeper		17		X83A	Steckverbinder 1pol. (W4) connector 1 pole (W4)		18		XS34	USSP (W2) ussp (W2)		26	
X45	Masseanschluß M6 Kombi-Kehreinheit ground bolt M6 hydr. driven combsweeper		17		X83B	Steckverbinder 1pol. (WS4) connector 1 pole (WS4)		18		XS35	USSP (W2) ussp (W2)		26	
X46	Massebolzen M10 Motor ground bolt M10 motor		29		X84A	Steckverbinder 1pol. (W4) connector 1 pole (W4)		18		XS36	USSP (W4) ussp (W4)		9	
X48	Masseanschluß M6 Anb. unkodiert ground bolt M6 attachment uncoded		17		X84B	Steckverbinder 1pol. (WS4) connector 1 pole (WS4)		18		XS37	USSP (W4) ussp (W4)		20	
X49	Masseanschluß M6 Mäh.-Saugkombi. ground bolt M6 mower suction		17		X91	Steckverbinder 8pol. (W5<->W77/W79) connector 8 pole (W5<->W77/W79)		23		XS39	USSP (W1) ussp (W1)		16	
X50	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		14		X91A	Steckverbinder 8pol. (W5<->W79) connector 8 pole (W5<->W79)		32		XS40	USSP 75 (W5) ussp 75 (W5)		6	
X50	Steckverbinder 8pol. (W1<-W5) connector 8 pole (W1<->W5)		26		X92	Steckverbinder 6pol. (W77/W79<->W44) connector 6 pole (W77/W79<->W44)		23		XS41	USSP (W5) ussp (W5)		5	
X51	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		11		X92A	Steckverbinder 6pol. (W77/W79<->W44) connector 6 pole (W77/W79<->W44)		20		XS42	USSP (W5) ussp (W5)		11	
X51	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		12		X92D	Steckverbinder 6pol. (W79<->W44) connector 6 pole (W79<->W44)		32		XS43	Stossverbinder (W30) butt joint (W30)		22	
X51/X52	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		28		X93	Steckverbinder 12pol. (W10<-W40) connector 12 pole (W10<->W40)		15		XS44	USSP (W5) ussp (W5)		11	
X51/X52	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		28		X94	Steckverbinder 8pol. (W10<-W40) connector 8 pole (W10<->W40)		15		XS45	USSP (W5) ussp (W5)		5	
X52	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		11		X96	Steckverbinder 4pol. (W6<->W22) connector 4 pole (W6<->W22)		24		XS46	USSP (W5) ussp (W5)		8	
X52	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)		12		X100	Steckverbinder 1pol. (W1<->W5) connector 1 pole (W1<->W5)		7		XS48	Stossverbinder (W35) butt joint (N/W35)		17	
X53	Steckverbinder 2pol. (W15<-R17) connector 2 pole (W15<->R17)		20		X104	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)		11		XS53	USSP (W7) ussp (W7)		16	
X54	Steckverbinder 2pol. (W15<-R18) connector 2 pole (W15<->R18)		20		X104/X105	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)		28		XS54	USSP (W7) ussp (W7)		16	
X57	Steckverbinder 1pol. (W5<-W6) connector 1 pole (W5<->W6)		12		X104/X105	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)		28		XS56	Stossverbinder (W23) butt joint (W23)		17	
X58	Steckdose 6pol. (Progr. Displ.) connector 6-pole (progr. disp.)		9		X105	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)		11		XS58	USSP (W1) ussp (W1)		5	
X59	Steckdose 6pol. Diagnose Yanmar diagnosis Yanmar socket 6 pole		9		X106	Steckverbinder 1pol. (W14) connector 1 pole (W14)		21		XS59	USSP (W1) ussp (W1)		5	
X60	Steckdose 16pol. Diagnose diagnosis socket 16 pole		9		X107	Steckverbinder 1pol. (W4) connector 1 pole (W4<->W4)		12		XS60	USSP (W77) ussp (W77)		23	
X61	Steckdose 3pol. (W6) socket 3 pole (W6)		12		X110	Stecker 6pol. Diagnose Fleet (W77) diagnosis socket 6 pole Fleet (W77)		23		XS61	USSP (W10) ussp (W10)		15	
X63	Steckdose 19pol. Frontaggregat socket 19 pole front attachment		15		XB26	Steckverb. 4pol. Überlast connector 4 pole overload		21		XS62	USSP (W10) ussp (W10)		15	
X63B	Stecker 19pol. 2-Besen (W11) plug 19 pole 2-brooms (W11)		17		XS01	USSP 30 (W5) ussp 30 (W5)		6		XS63	USSP (W7) ussp (W7)		16	
X63D	Stecker 19pol. Mäh.-Saugkombi. plug 19 pole mower suction (W23)		17		XS02	USSP 30 (W5) ussp 30 (W5)		6		XS64	USSP (W7) ussp (W7)		16	
X63F	Stecker 19pol. Anbauger. unkodiert attachment uncoded (W29)		17		XS04	USSP 58 (W5) ussp 58 (W5)		6		XS65	USSP (W7) ussp (W7)		16	
X63G	Stecker 19pol. Kombi-Kehreinheit plug 19 pole hydr. driven combsweeper (W35)		17		XS05	USSP (W10) ussp (W10)		25		XS67	USSP (W18) ussp (W18)		19	
X64	Steckdose 7pol. Heckaufbau (W7) socket 7 pole rear (W7)		16		XS06	USSP (W7) ussp (W7)		25		XS68	USSP (W18) ussp (W18)		19	
X65	Anhängersteckdose 7pol. trailer socket 7 pole (W7)		16		XS07	USSP (W7) ussp (W7)		25		XS69	USSP (W19) ussp (W19)		19	
X67	Steckdose 12pol. Streuer Lenksäule connector 12 pole spreader steering pillar		20		XS08	USSP (W5) ussp (W5)		9		XS70	USSP (W19) ussp (W19)		19	
X68	Steckdose 7pol. Streuer Kabinenrückwand connector 7 pole spreader cabine back		20		XS09	USSP (W1) ussp (W1)		8		XS71	USSP (W19) ussp (W19)		19	
X69	Steckverbinder 8pol. (W7<-W18/W19) connector 8 pole (W7<->W18/W19)		16		XS10	USSP (W5) ussp (W5)		13		XS72	USSP (W19) ussp (W19)		19	
X69A	Steckverbinder 8pol. (W7<-W18) connector 8 pole (W7<->W18)		19		XS11	USSP (W5) ussp (W5)		13		XS73	USSP (W6) ussp (W6)		25	

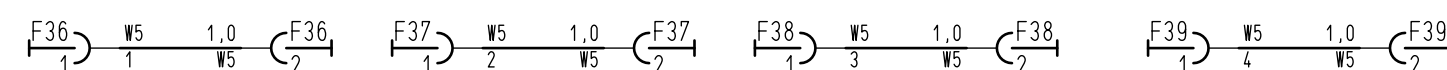
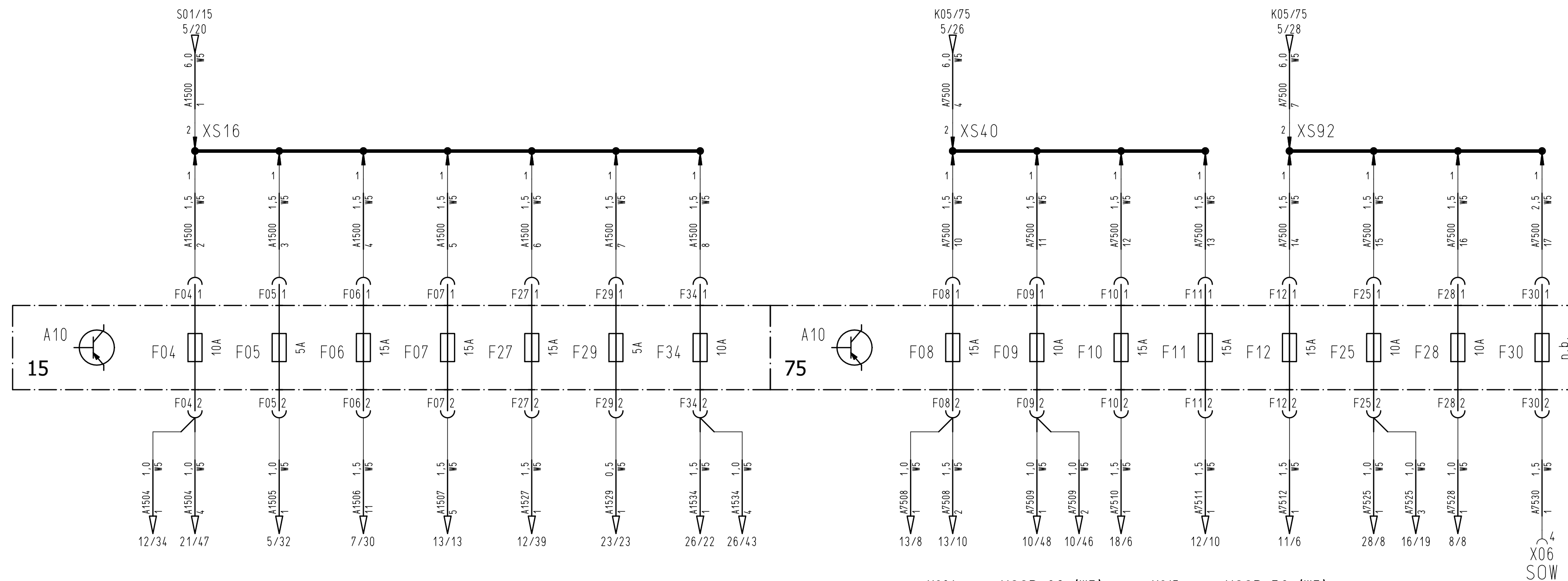
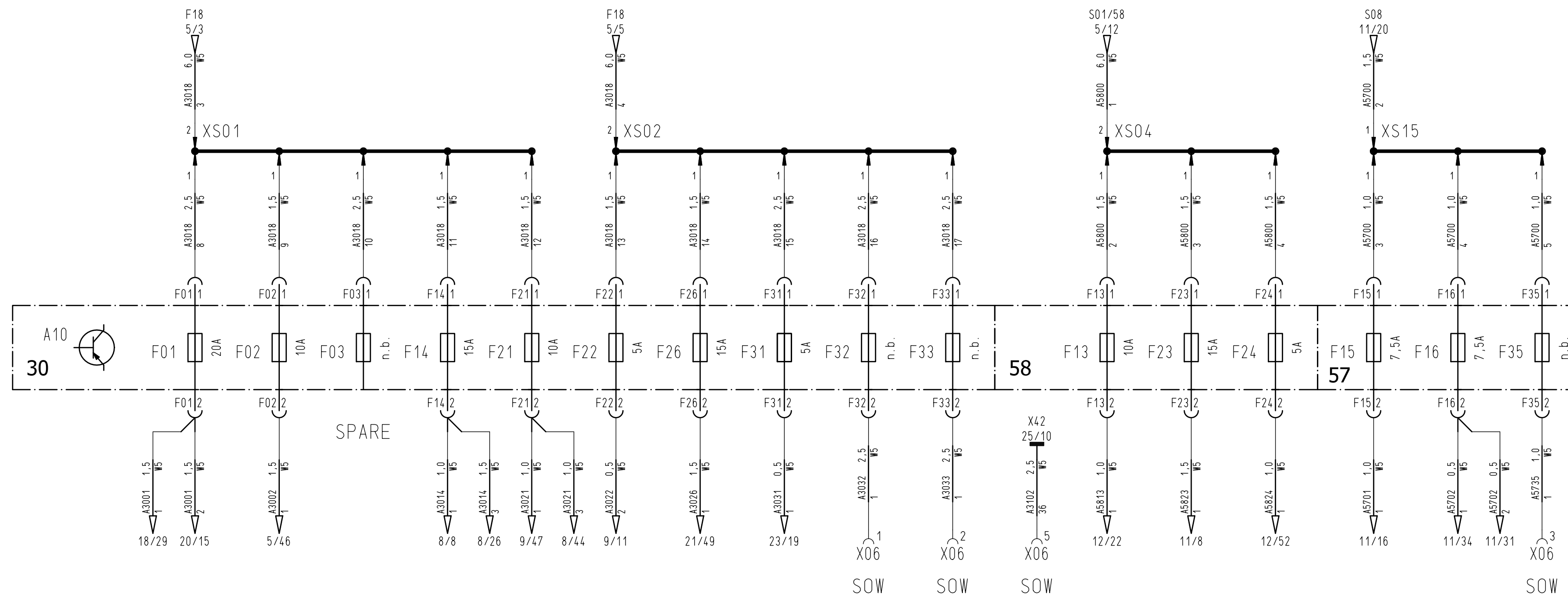
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	XS78	USSP (W6) ussp (W6)		10		1XS10	USSP (W9) ussp (W9)		31		W1	Kabelbaum W1 (Knick) wire harness W1 (joint)	97149298			
	XS79	USSP (W10) ussp (W10)		27		1XS11	USSP (W9) ussp (W9)		31		W2	Kabelbaum W2 (Kabinenboden) wire harness W2 (cabine floor)	97150767			
	XS80	USSP (W10) ussp (W10)		27		1XS12	USSP (W9) ussp (W9)		29		W3	Kabelbaum W3 (Armlehne) wire harness W3 (arm rest)	97159974			
	XS81	USSP (W10) ussp (W10)		27		2XS1	USSP (W9) ussp (W9)		31		W4	Kabelbaum W4 (Kabinendach) wire harness W4 (cabine roof)	97154520			
	XS82	USSP (W10) ussp (W10)		27		2XS2	USSP (W9) ussp (W9)		31		W5	Kabelbaum W5 (Sicherungskasten) wire harness W5 (fuse box)	97150098			
	XS83	USSP (W10) ussp (W10)		27		2XS3	USSP (W9) ussp (W9)		31		W6	Kabelbaum W6 (Lenksäule) wire harness W6 (steering pillar)	97150106			
	XS84	USSP (W10) ussp (W10)		27		2XS4	USSP (W9) ussp (W9)		31		W7	Kabelbaum W7 (Beleuchtung/Ventile) wire harness W7 (lighning/hydr.valves)	97149306			
	XS85	USSP (W1) ussp (W1)		14		2XS5	USSP (W9) ussp (W9)		31		W8	Kabelbaum W8 (Arbeitsscheinwerfer) wire harness W8 (work lamps)	97158273			
	XS86	USSP (W1) ussp (W1)		14		2XS6	USSP (W9) ussp (W9)		31		W9	Kabelbaum W9 (Motor) wire harness W9 (engine)	97149314			
	XS87	USSP (W1) ussp (W1)		26		Y09	Kupplung Klimakompressor clutch compressor AC (var.Comfort)	LF Yanmar	18/37		W10	Kabelbaum W10 (Vorderwagen) wire harness W10 (front section)	97154587			
	XS88	USSP (W1) ussp (W1)		26		Y09.	Kupplung Klimakompressor clutch compressor AC (var.Comfort)	LF Yanmar	29/21		W11	Kabelbaum W11 (Kehrvorsatz 2 Besen) wire harness W11 (sweeper attatchement 2 broos)	97120661			
	XS90	USSP (W9) ussp (W9)		29		Y10	Hydraulikventil Umlauf Gebläse hydraulic valve vacuum fan circulation		13/7		W14	Kabelbaum W14 (Radio) wire harness W14 (radio)	97154256			
	XS91	USSP (W9) ussp (W9)		29		Y11	Hydraulikventil Umlauf Besen hydraulic valve brooms circulation		13/12		W15	Kabelbaum W15 (Spiegelheizung) wire harness W15 (mirror heating)	97122337			
	XS92	USSP 75 (W5) ussp 75 (W5)		6		Y12	Hydraulikventil Umlauf Geräteträger hydraulic valve front carrier circ.		13/17		W18	Kabelbaum W18 (Heckleuchte Standard) wire harness W18 (rear lights standard)	97151906			
	XS95	USSP (W5) ussp (W5)		5		Y13	Hydraulikventil Gerätetr.Schwimmst. hydr.valve front carrier released		13/22		W19	Kabelbaum W19 (Heckleuchte LED) wire harness W19 (rear lights LED)	97151914			
	XS96	USSP (W4) ussp (W4)		12		Y14	Hydraulikventil Geräteträger heben hydraulic valve front carrier up		13/28		W22	Kabelbaum W22 (Komfortlenksäule) wire harness W22 (comfort steering pillar)	97142244			
	XS97	USSP (W5) ussp (W5)		5		Y15	Hydraulikventil Besen breit hydraulic valve brooms wide		13/33		W23	Kabelbaum W23 (Univ.-Frontmähwerk) wire harness W23 (universal front mower)	97134134			
	XS98	USSP (W10) ussp (W10)		14		Y16	Hydraulikventil Besen eng hydraulic valve brooms narrow		13/38		W29	Kabelbaum W29 (Anbaug. unkodiert) wire harness W29 (attatchment uncoded)	97127591			
	XS101	USSP (W4) ussp (W4)		25		Y17	Hydraulikventil Behälter heben hydraulic valve hopper up		13/42		W30	Kabelbuam W30 (Behälter Heckbetätigung) wire harness W30 (container switch rear)	97126809			
	XS105	USSP (W4) ussp (W4)		25		Y18	Hydraulikventil Behälter senken hydraulic valve hopper down		13/47		W35	Kabelbaum W35 (Frontkehrmaschine) wire harness W35 (front sweeping mashine)	97721070			
	XS110	USSP (W9) ussp (W9)		31		Y21	Proportionalventil Seitenbesen (Var.2 Besen) prop.valve broom speed (var. 2 brooms)		17/12		W40	Kabelbaum W40 (Steckdose X63) wire harness W40 (socket X63)	97142814			
	XS111	USSP (W9) ussp (W9)		31		Y30	Hydraulikventil hydraulic valve		17/36		W41	Kabelbaum W41 (Blink/Posl. Std.) wire harness W41 (front indicator/posl. Std.)	97154157			
	XS114	USSP (W6) ussp (W6)		10							W42	Kabelbaum W42 (Hauptscheinwerfer LED) wire harness W42 (headlights LED)	97156822			
	XS118	USSP (W4) ussp (W4)		25							W43	Kabelbaum W43 (Blink/Posl. LED) wire harness W43 (front indicator/posl. LED)	97156830			
	XS122	USSP (W43) ussp (W43)		28							W44	Kabelbaum W44 (Streuervorbereitung) wire harness W44 (spreader preliminary)	97158844			
	XS123	USSP (W1) ussp (W1)		26							W77	Kabelbaum W77 (Fleetrecorder) wire harness W77 (fleetrecorder)	97158851			
	XS124	USSP (W1) ussp (W1)		26							W78	Kabelbaum W78 (Fleetrecorder Erweiter.) wire harness W78 (Fleetrecorder expansion)	97158869			
	XS125	USSP (W77) ussp (W77)		23							W79	Kabelbaubaum W79 (Gateway) wire harness W79 (gateway)	97161426			
	XS126	USSP (W77) ussp (W77)		23							WS1	Kabelsatz loom of wires	97152003			
	XS128	USSP (W79) ussp (W79)		32							WS2	Kabelsatz loom of wires	97152011			
	XS129	USSP (W79) ussp (W79)		32							WS3	Kabelsatz Batterieschalter loom of wires battery main switch	97152029			
	XS130	USSP (W79) ussp (W79)		32							WS4	Kabelsatz Classic loom of wires classic	97125157			
	XS131	Stossverbinder (W79) butt joint (W79)		32							WS5	Kabelsatz E-Kasten loom of wires	97154603			
	XS132	Stossverbinder (W79) butt joint (W79)		32												
	XS133	USSP (W2) ussp (W2)		26												
	XS150	USSP (W3) ussp (W3)		14												
	XS151	USSP (W3) ussp (W3)		14												
	XS152	USSP (W3) ussp (W3)		14												
	1XS01	USSP (W9) ussp (W9)		29												
	1XS04	USSP (W9) ussp (W9)		29												
	1XS05	USSP (W9) ussp (W9)		29												
	1XS06	USSP (W9) ussp (W9)		29												
	1XS08	USSP (W9) ussp (W9)		30												
	1XS09	USSP (W9) ussp (W9)		30												



Legende

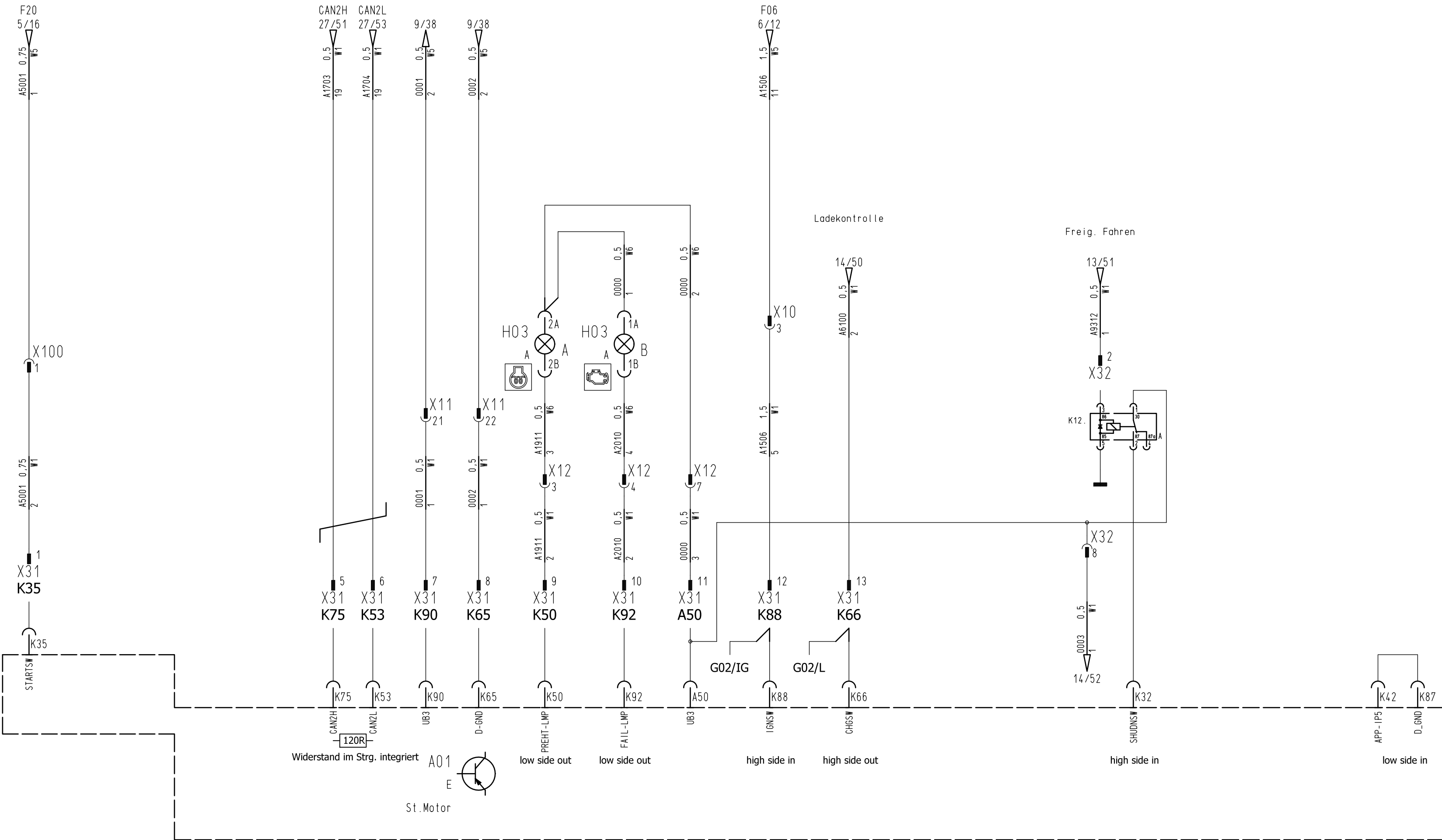
- A10 Sicherungskasten
fusebox side console right
- F17 Sicherung 50A Vorsicherung 15/75
fuse 50A pre-fuse 15/75
- F18 Sicherung 50A Vorsicherung 30
fuse 50A pre-fuse 30
- F20 Sicherung 7,5A (50)
fuse 7,5A (50)
- F40. Sicherung 20A
fuse 20A
- F41. Sicherung 20A
fuse 20A
- F42. Sicherung 60A
fuse 60A
- F43. Sicherung 80A
fuse 80A
- G01 Starterbatterie 12V
starter battery 12V
- G02 Generator 12V
alternator 12V
- K01. Relais Anlasser
relay starter
- K02. Relais Vorglühen
relay preheating
- K05. Relais Versorgung 75
relay supply 75
- K10 Entlastungsrelais 1 (15)
release relay 1 (15)
- M01. Anlasser
starter
- R10. Vorglühkерzen
glow plugs
- S01 Zündstartschalter
starter switch
- S19 Batterietrennschalter
battery main switch
- V05. Diode
diode
- V06. Diode
diode
- X07 Steckverbinder 2pol. (W1<->W5)
connector 2 pole (W1<->W5)
- X10 Steckverbinder 8pol. (W1<->W5)
connector 8 pole (W1<->W5)
- X18 Steckverbinder 20pol. (W4<->W5)
connector 20 pole (W4<->W5)
- X32 Steckverbinder 12pol. (W1<->W9)
connector 12 pole (W1<->W9)
- X82. Steckverbinder 2 pol. (W9<->W1)
connector 2 pole (W9<->W1)
- XS41 USSP (W5)
ussp (W5)
- XS45 USSP (W5)
ussp (W5)
- XS58 USSP (W1)
ussp (W1)
- XS59 USSP (W1)
ussp (W1)
- XS95 USSP (W5)
ussp (W5)
- XS97 USSP (W5)
ussp (W5)

0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	Schaltplan / circuit diagram	 ussp (WS) Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362		
					Drawn by	21.08.	DK							Replacem. for
					Verified									
A2	No. Number appears	Change No.	Date	Name	Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 5



XS01	USSP 30 (W5) ussp 30 (W5)	XS15	USSP 58 (W5) ussp 57 (W5)			SOW	F34	Sicherung 10A (15) fuse 10A (15)
XS02	USSP 30 (W5) ussp 30 (W5)	XS16	USSP 15 (W5) ussp 15 (W5)				F35	Sicherung für SOW (57) fuse for SOW (57)
XS04	USSP 58 (W5) ussp 58 (W5)	XS40	USSP 75 (W5) ussp 75 (W5)	XS92	USSP 75 (W5) ussp 75 (W5)		X06	Steckverbinder 6pol.für SOW (W5) connector 6 pole for SOW (W5)

	0	Integrated acc.	4000-34	20.01.20	DK	2019 Drawn by Verified	Date 24.04. DK	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe		Drawing Number 91039362		
A2	No.	Number appears	Change No.	Date	Name	Standard			Replacem. for same no. Change No. 9245-08	Schaltplan / circuit diagram					
										For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 6



- Legende
- A01

Motorsteuergerät ECU
engine controller ECU
- H03

Kontrollleuchten Motor/Vorglühen
pilot lamps engine / preheating
- K12.

Relais
relay
- X10

Steckverbinder 8pol. (W1<->W5)
connector 8 pole (W1<->W5)
- X11

Steckverbinder 24pol. (W1<->W5)
connector 24 pole (W1<->W5)
- X12

Steckverbinder 10pol. (W1<->W6)
connector 10 pole (W1<->W6)
- X31

Steckverbinder 16pol. (W1<->W9)
connector 16 pole (W1<->W9)
- X32

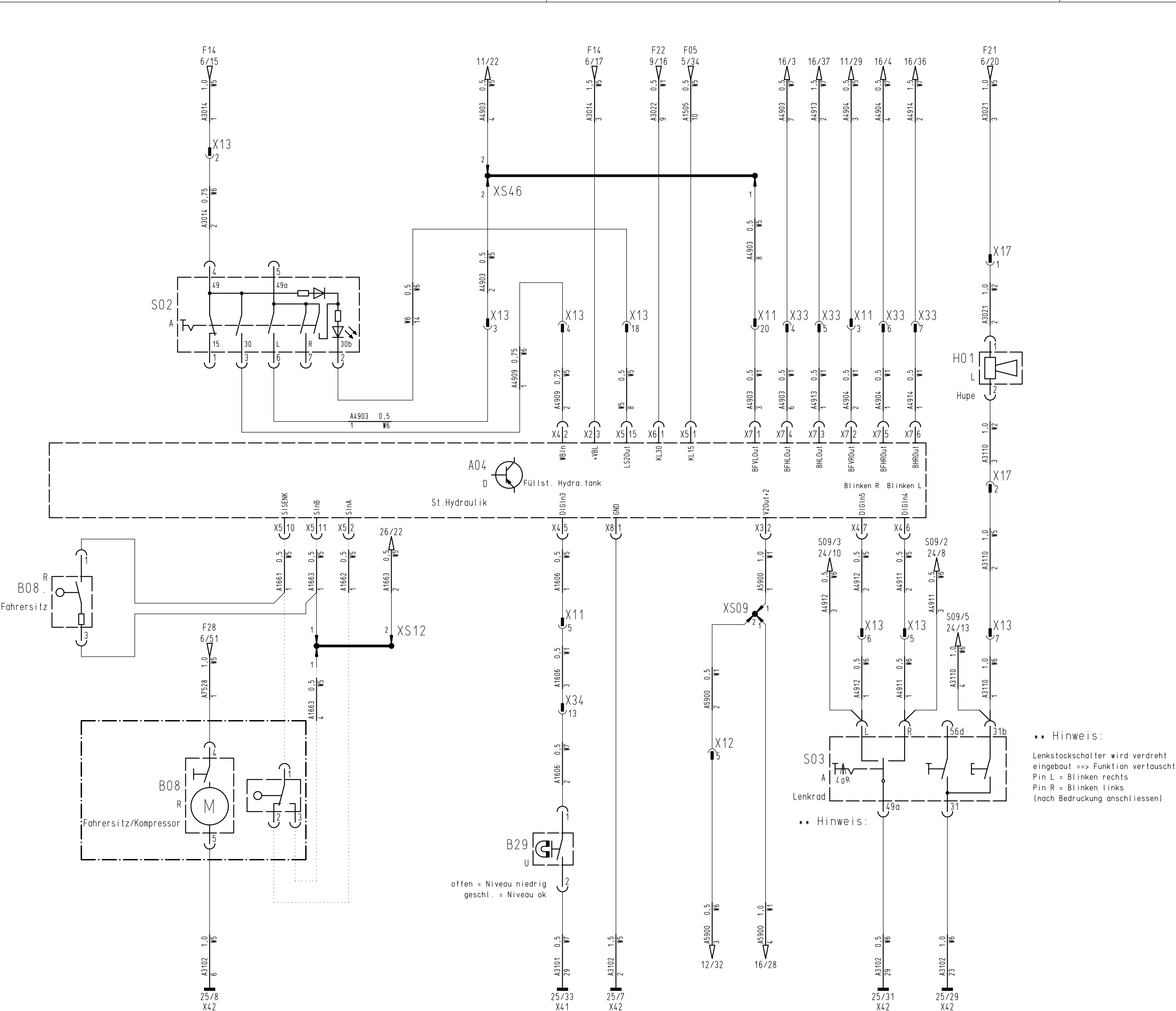
Steckverbinder 12pol. (W1<->W9)
connector 12 pole (W1<->W9)
- X100

Steckverbinder 1pol. (W1<->W5)
connector 1 pole (W1<->W5)



A2	0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	Schaltplan / circuit diagram	Hako Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362		
	No.	Number appears	Change No.	Date	Name	Standard		Replacem. for	Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)			No. of Sh.	38	Sheet





Legende

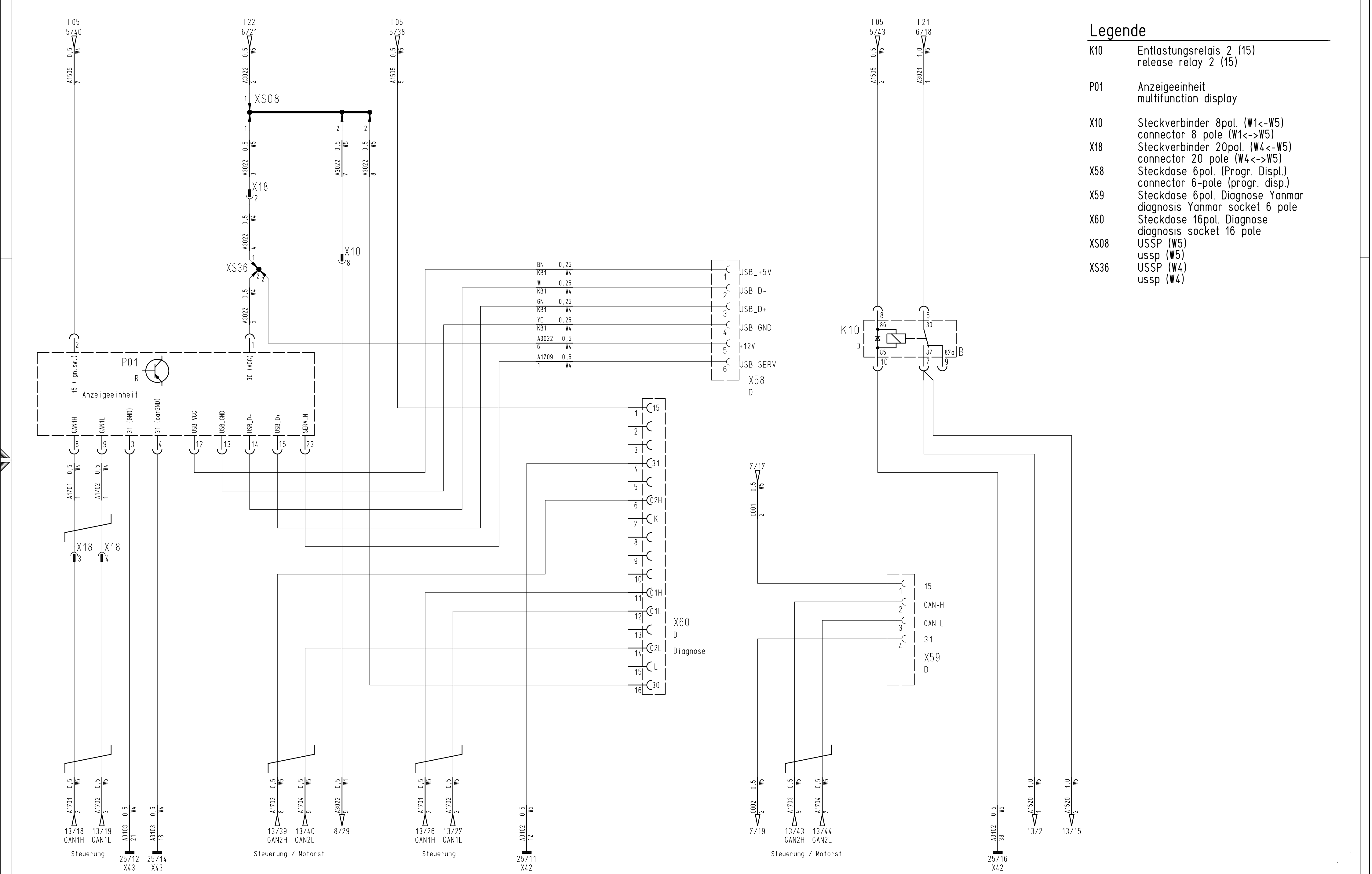
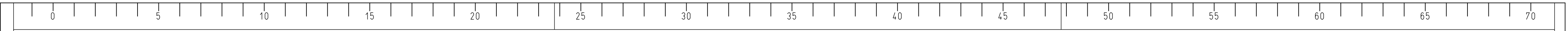
- A04 Steuergerät Hydraulik
controller hydraulic valves
- B08 Kompressor Fahrsitz
seat switch/compressor
- B08. Sitzkontaktschalter
seat switch
- B29 Füllstandsensor Hydrauliköltank
level sensor hydraulic oil tank
- H01 Hupe
horn
- S02 Warnblinkschalter
switch warning flasher
- S03 Lenkstockschalter
steering wheel switch
- X11 Steckverbinder 24pol. (W1<-W5)
connector 24 pole (W1<->W5)
- X12 Steckverbinder 10pol. (W1<-W6)
connector 10 pole (W1<->W6)
- X13 Steckverbinder 22pol. (W6<-W5)
connector 22 pole (W6<->W5)
- X17 Steckverbinder 4pol. (W2<-W5)
connector 4 pole (W2<->W5)
- X33 Steckverbinder 18pol. (W1<-W7)
connector 18 pole (W1<->W7)
- X34 Steckverbinder 14pol. (W1<-W7)
connector 14 pole (W1<->W7)
- XS09 USSP (W1)
ussp (W1)
- XS12 USSP (W5)
ussp (W5)
- XS46 USSP (W5)
ussp (W5)

.. Hinweis:
Lenkstockschalter wird verdreht
eingebaut ==> Funktion vertauscht
Pin L = Blinken rechts
Pin R = Blinken links
(nach Bedruckung anschliessen)

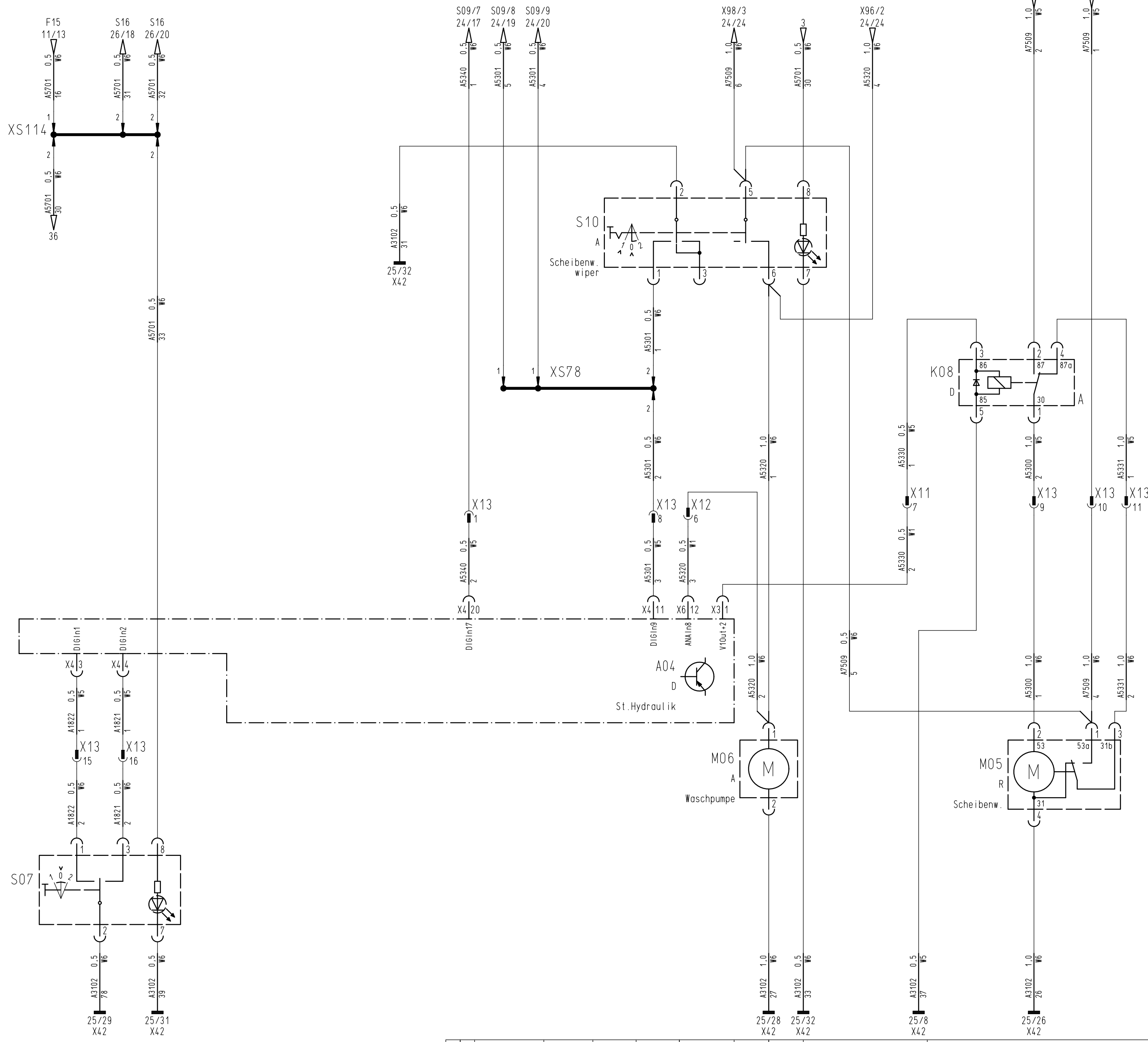
.. Hinweis:



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Date 21.08.	Name DK	CM650	Name Schaltplan / circuit diagram	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 8



- ### Legende
- K10 Entlastungsrelais 2 (15)
release relay 2 (15)
 - P01 Anzeigeeinheit
multifunction display
 - X10 Steckverbinder 8pol. (W1<->W5)
connector 8 pole (W1<->W5)
 - X18 Steckverbinder 20pol. (W4<->W5)
connector 20 pole (W4<->W5)
 - X58 Steckdose 6pol. (Progr. Displ.)
connector 6-pole (progr. disp.)
 - X59 Steckdose 6pol. Diagnose Yanmar
diagnosis Yanmar socket 6 pole
 - X60 Steckdose 16pol. Diagnose
diagnosis socket 16 pole
 - XS08 USSP (W5)
ussp (W5)
 - XS36 USSP (W4)
ussp (W4)



Legende

- A04 Steuergerät Hydraulik
controller hydraulic valves
- K08 Relais Scheibenwischer
relay windscreen wiper
- M05 Scheibenwischermotor
windscreen wiper motor
- M06 Scheibenwaschpumpe
windscreen washer pump
- S07 Taster Motordrehzahl Tip-Up / Down
push-button engine speed tip-up / down
- S10 Schalter Scheibenwischer
switch windscreen wiper
- X11 Steckverbinder 24pol. (W1<->W5)
connector 24 pole (W1<->W5)
- X12 Steckverbinder 10pol. (W1<->W6)
connector 10 pole (W1<->W6)
- X13 Steckverbinder 22pol. (W6<->W5)
connector 22 pole (W6<->W5)
- XS78 USSP (W6)
ussp (W6)
- XS114 USSP (W6)
ussp (W6)



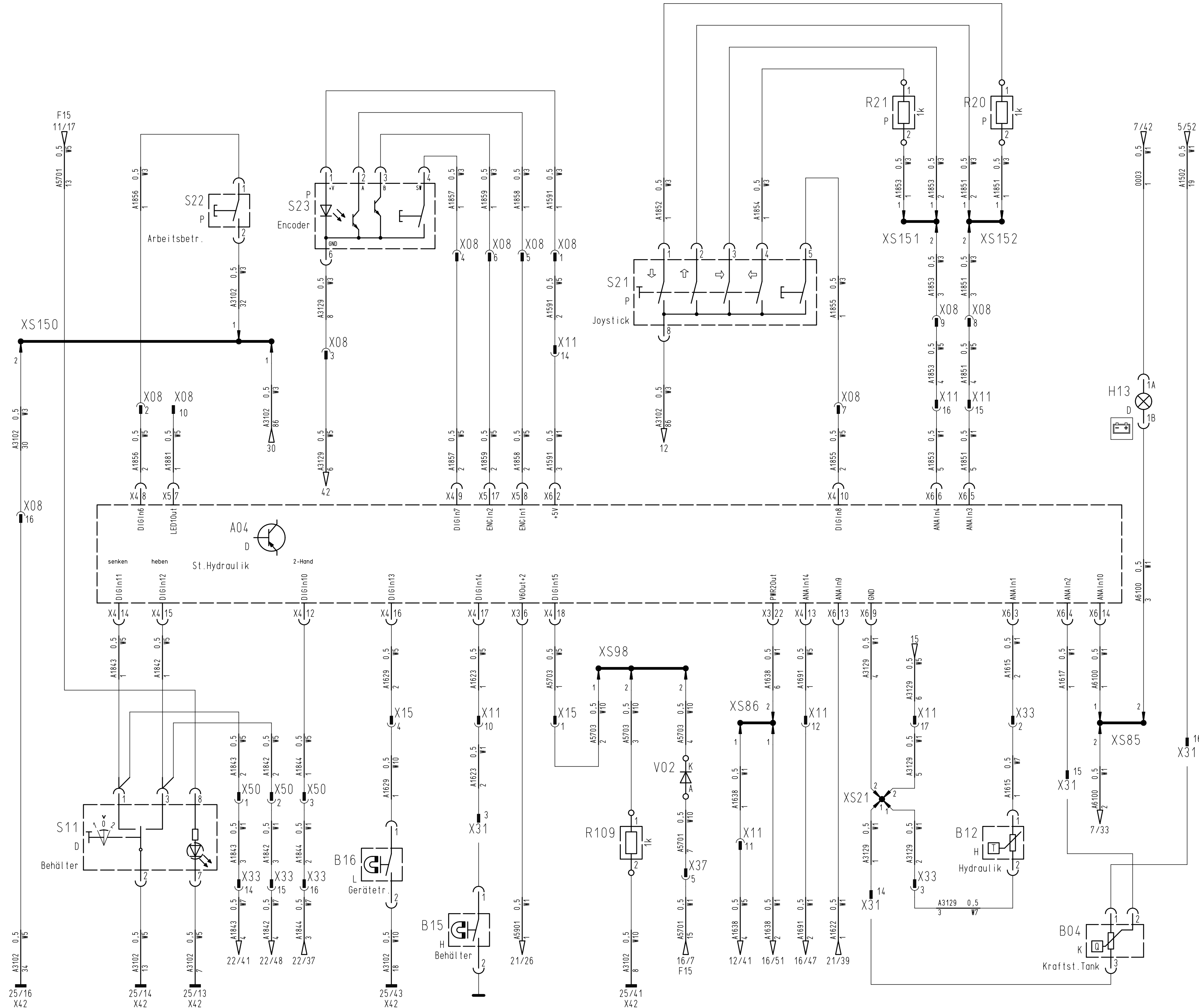
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						Drawn by	21.08.	DK							
						Verified									
						Standard			Replacem. for						
									Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 10



E01	Frontscheinwerfer links headlight left
E02	Frontscheinwerfer rechts headlight right
K08	Relais Nebelschlußleuchte relay fog light
S08	Lichtschalter switch light
S12	Schalter Nebelschlußleuchte switch rear fog light
X11	Steckverbinder 24pol. (W1<-W5) connector 24 pole (W1<->W5)
X13	Steckverbinder 22pol. (W6<-W5) connector 22 pole (W6<->W5)
X15	Steckverbinder 14pol. (W10<-W5) connector 14 pole (W10<->W5)
X18	Steckverbinder 20pol. (W4<-W5) connector 20 pole (W4<->W5)
X19	Steckverbinder 6pol. (W5<-W4) connector 6 pole (W5<->W4)
X51	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)
X52	Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)
X104	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)
X105	Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)
XS42	USSP (W5) ussp (W5)
XS44	USSP (W5) ussp (W5)

	0	Integrated acc.	4000-34	20.01.20	DK	2019 Drawn by Verified	Date 21.08. 	Name DK	CM650	Name Schaltplan / circuit diagram	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
A2	No.	Number appears	Change No.	Date	Name	Standard			Replacem. for Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 11

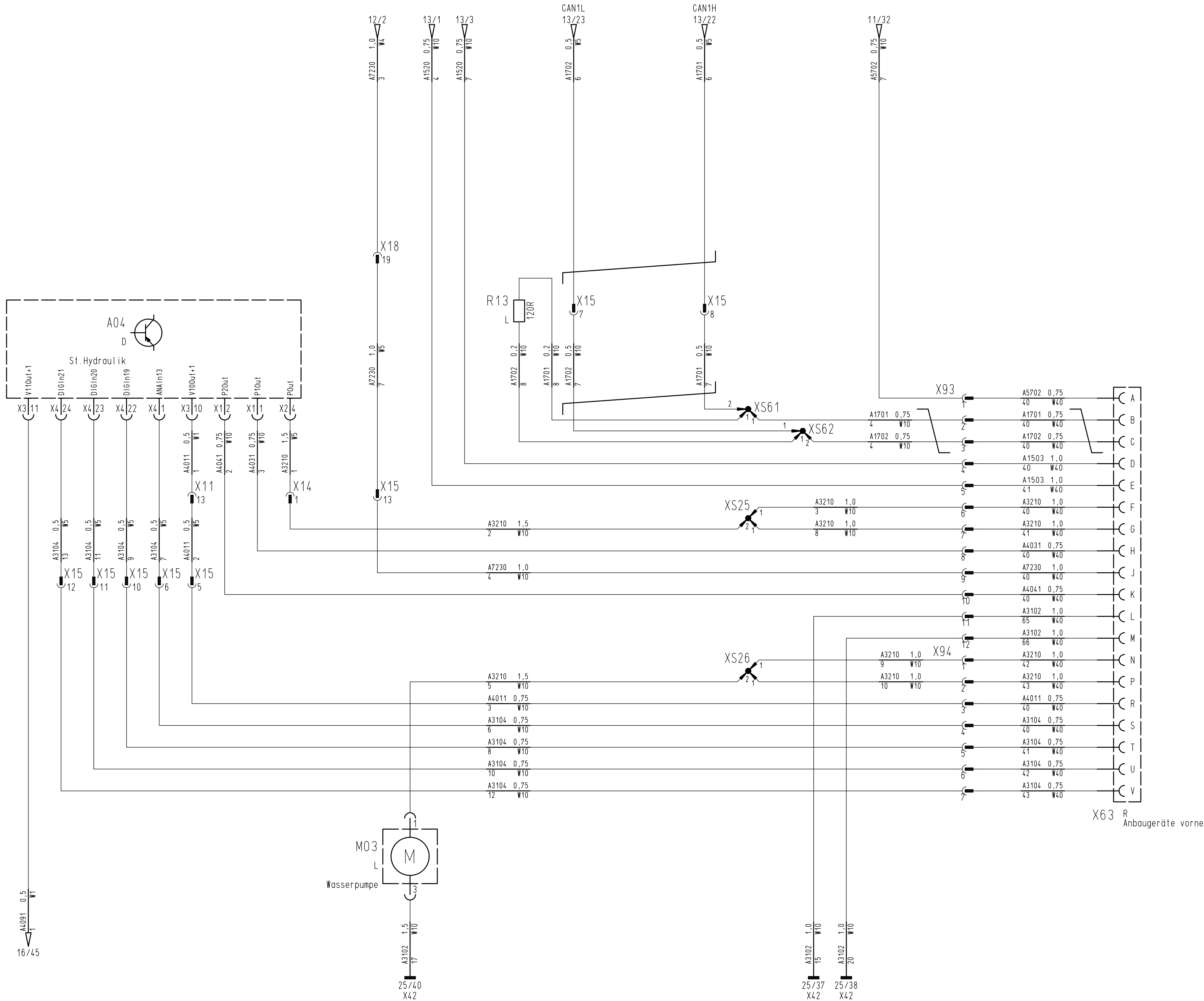
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						Drawn by	21.08.	DK	Replacem. for	Schaltplan / circuit diagram					
						Verified									
A2	No.	Number appears	Change No.	Date	Name	Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 12



- ### Legende
- A04 Steuergerät Hydraulik
controller hydraulic valves
 - B04 Niveausensor Kraftstofftank
fuel level sensor
 - B12 Thermosensor Hydrauliköl
temperature sensor hydraulic oil
 - B15 Reed-Sensor Behälter oben
hopper reed switch
 - B16 Reed-Sensor Geräteträger oben
front carrier reed switch
 - H13 Batterieladekontrollleuchte
pilot lamps engine / preheating
 - R20 Widerstand 1k
resistor 1k0hm
 - R21 Widerstand 1k
resistor 1k0hm
 - R109 Widerstand 1k
resistor 1k0hm
 - S11 Taster Behälter heben/senken
pushbutton switch hopper up/down
 - S21 Kreuztaster Hydraulikfunktionen
joystick switch hydraulics
 - S22 Taster Arbeitsbetrieb
pushbutton switch working mode
 - S23 Drehencoder mit Taste
encoder switch with pushbutton
 - V02 Diode
diode
 - X08 Steckverbinder 16pol. (W3<->W5)
connector 16 pole (W3<->W5)
 - X11 Steckverbinder 24pol. (W1<->W5)
connector 24 pole (W1<->W5)
 - X15 Steckverbinder 14pol. (W10<->W5)
connector 14 pole (W10<->W5)
 - X31 Steckverbinder 16pol. (W1<->W9)
connector 16 pole (W1<->W9)
 - X33 Steckverbinder 18pol. (W1<->W7)
connector 18 pole (W1<->W7)
 - X37 Steckverbinder 12pol. (W1<->W10)
connector 12 pole (W1<->W10)
 - X50 Steckverbinder 8pol. (W1<->W5)
connector 8 pole (W1<->W5)
 - XS21 USSP (W1)
ussp (W1)
 - XS85 USSP (W1)
ussp (W1)
 - XS86 USSP (W1)
ussp (W1)
 - XS98 USSP (W10)
ussp (W10)
 - XS150 USSP (W3)
ussp (W3)
 - XS151 USSP (W3)
ussp (W3)
 - XS152 USSP (W3)
ussp (W3)



0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	Schaltplan / circuit diagram	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
					Drawn by	21.08.	DK	Replacem. for							
					Verified										
A2	No.	Number appears	Change No.	Date	Name	Standard		Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)		KAB1 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 14



- Legende
- A04

Steuergerät Hydraulik
controller hydraulic valves
- M03

Sprühwasserpumpe
spraying pump
- R13

Widerstand 120R
resistor 1200hm
- X11

Steckverbinder 24pol. (W1<-W5)
connector 24 pole (W1<->W5)
- X14

Steckverbinder 1pol. (W5<-W10)
connector 1 pole (W5<->W10)
- X15

Steckverbinder 14pol. (W10<-W5)
connector 14 pole (W10<->W5)
- X18

Steckverbinder 20pol. (W4<-W5)
connector 20 pole (W4<->W5)
- X63

Steckdose 19pol. Frontaggregat
socket 19 pole front attachment
- X93

Steckverbinder 12pol. (W10<-W40)
connector 12 pole (W10<->W40)
- X94

Steckverbinder 8pol. (W10<-W40)
connector 8 pole (W10<->W40)
- XS25

USSP (W10)
ussp (W10)
- XS26

USSP (W10)
ussp (W10)
- XS61

USSP (W10)
ussp (W10)
- XS62

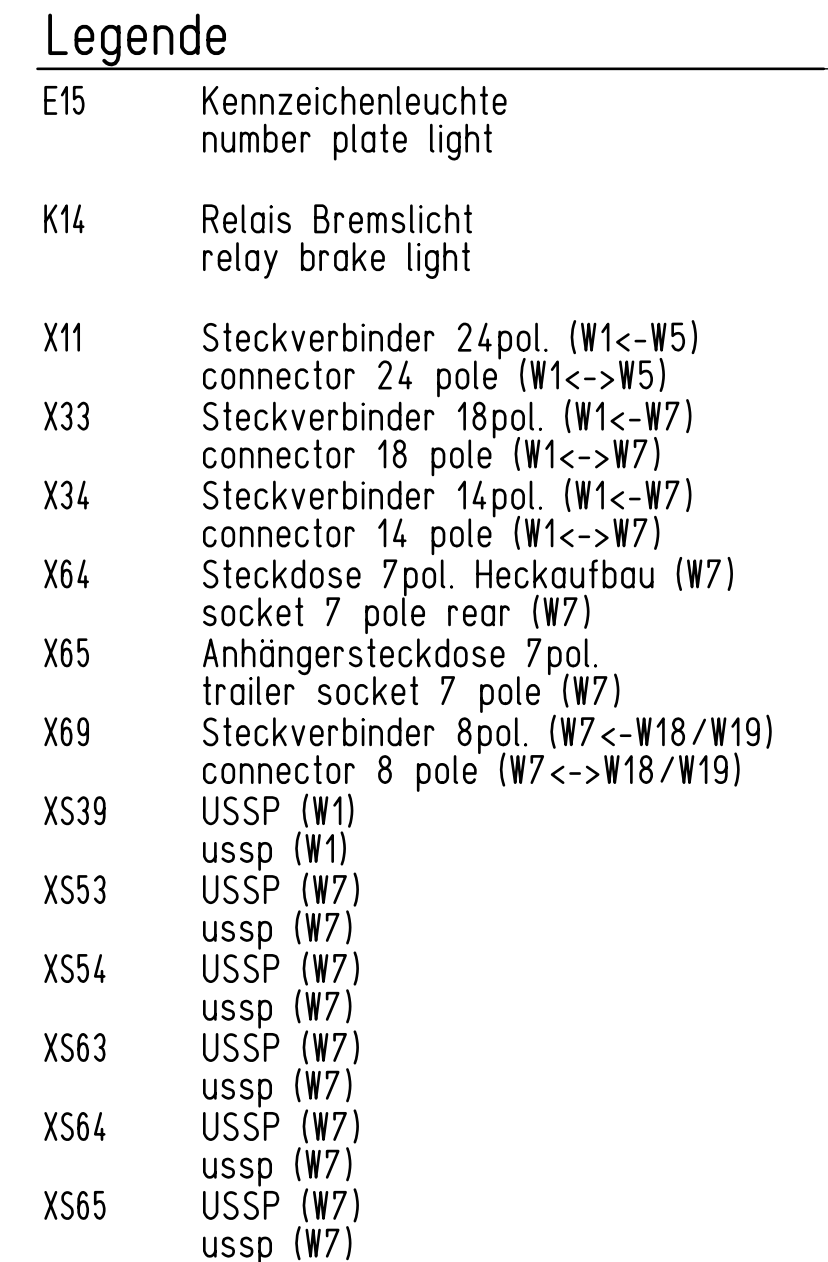
USSP (W10)
ussp (W10)

X63 R
Anbaugeräte vorne

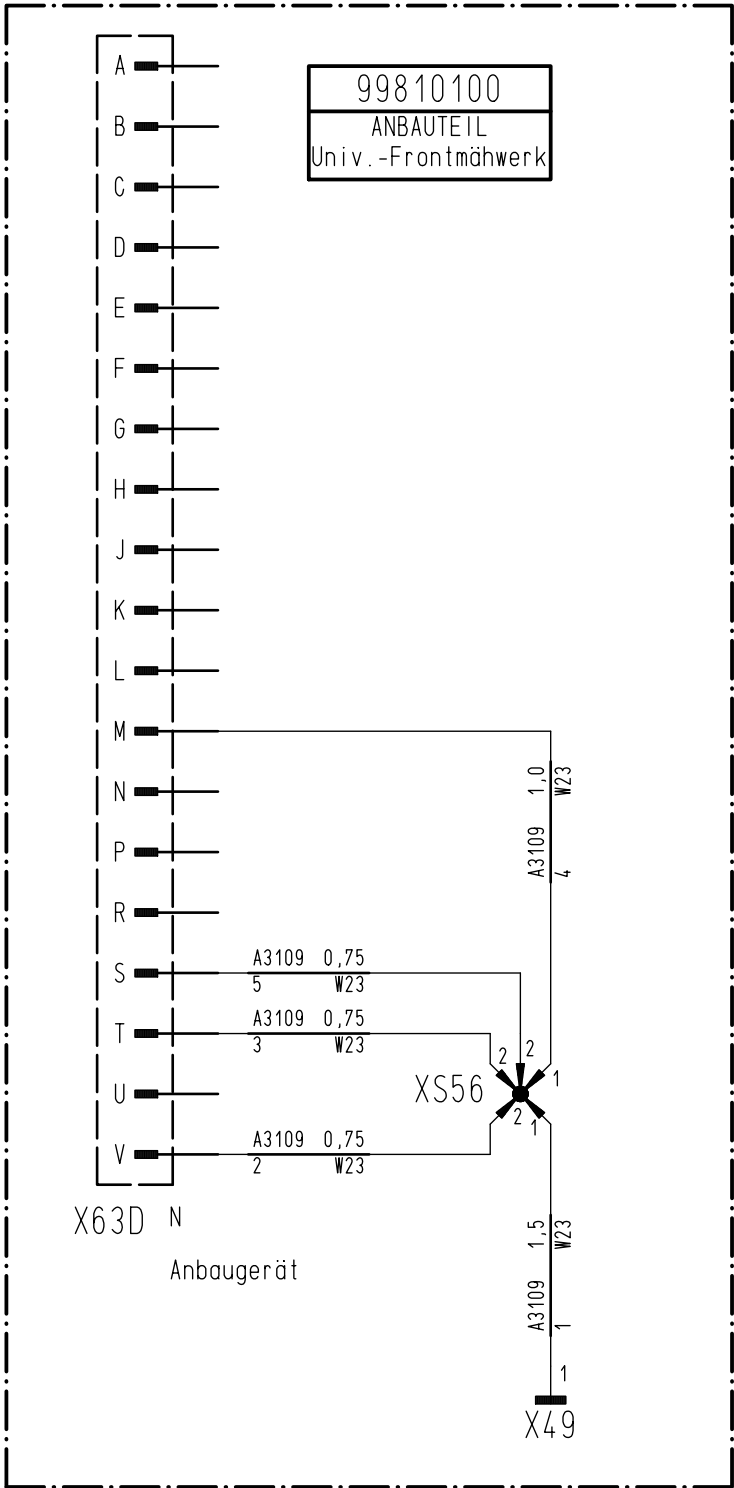
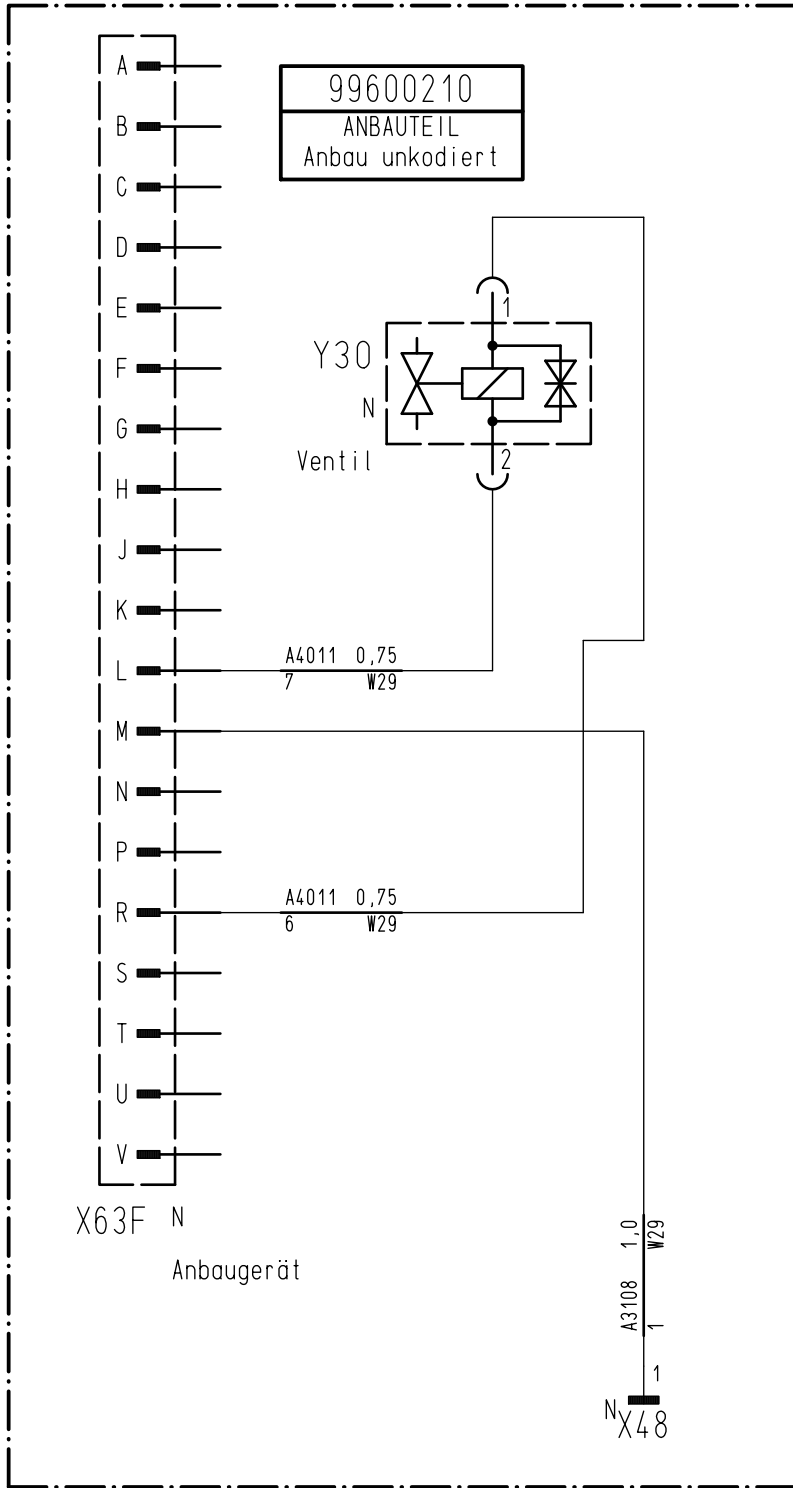
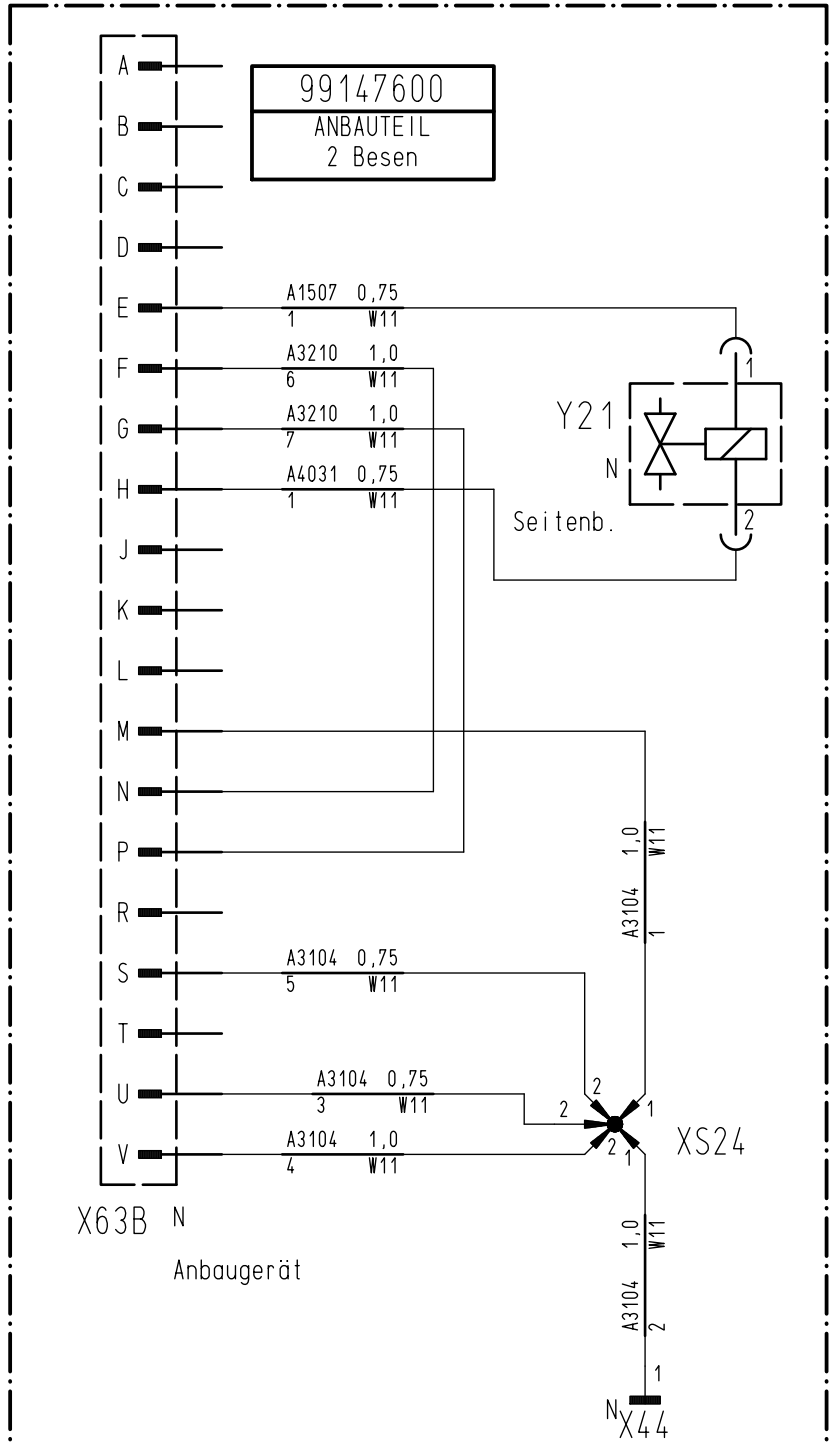


A2	No.	Number appears	Change No.	Date	Name	Standard		2019 Date 21.08.	Name DK	CM650	Name Schaltplan / circuit diagram	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 15



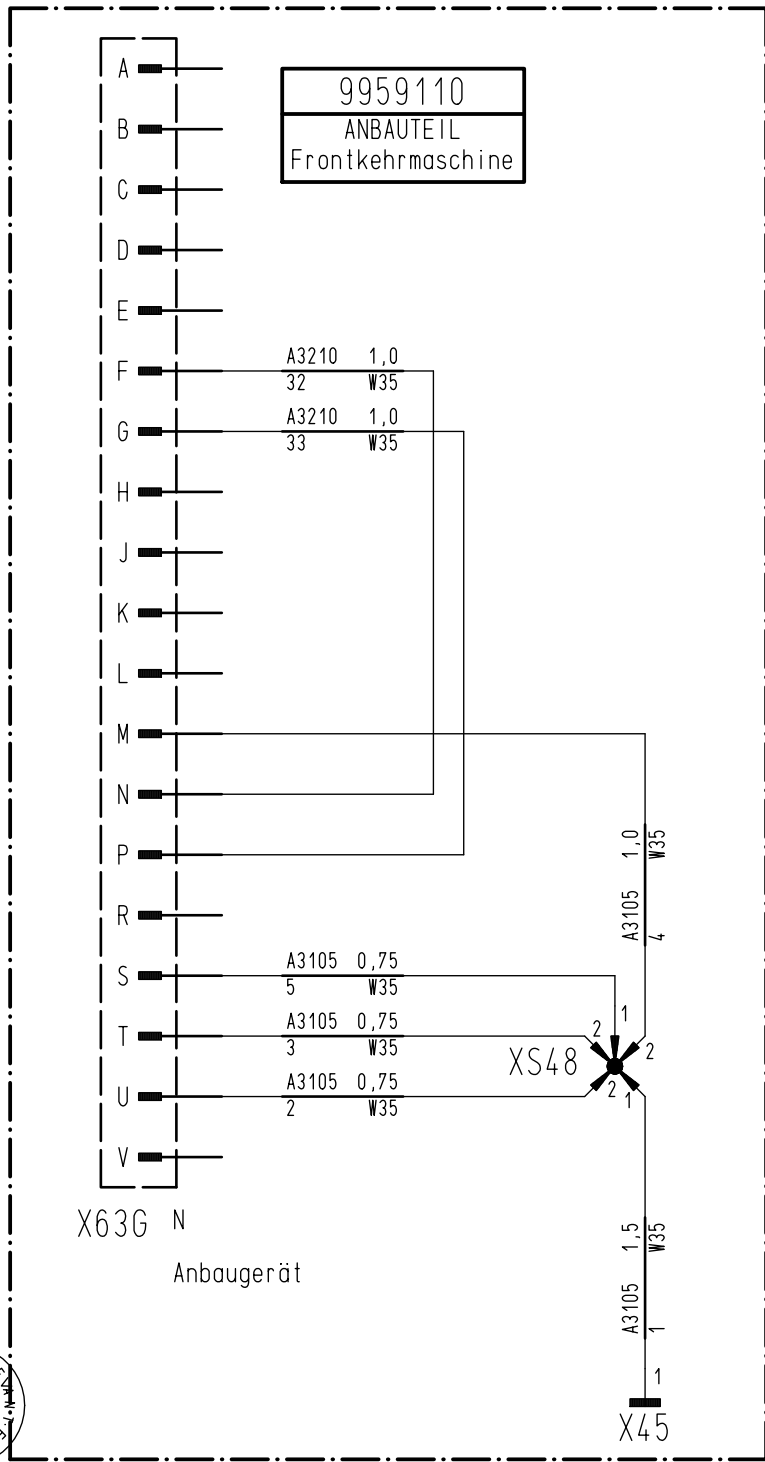


X64 | Heck

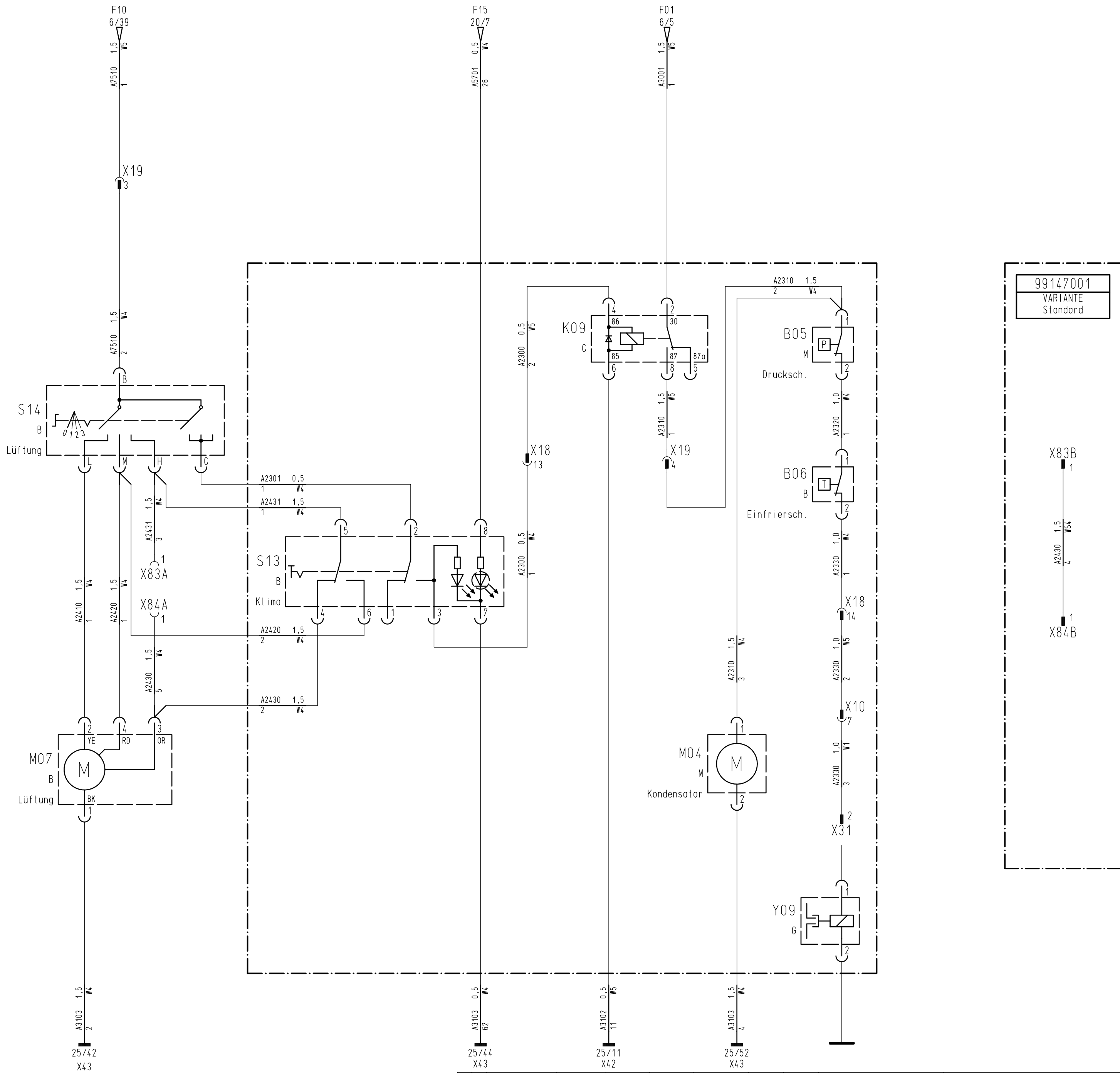


Legende

- X44 Masseanschluß M6 Kehrversatz
ground bolt M6 sweeper
- X45 Masseanschluß M6 Kombi-Kehreinheit
ground bolt M6 hydr. driven comb.sweeper
- X48 Masseanschluß M6 Anb. unkodiert
ground bolt M6 attachment uncoded
- X49 Masseanschluß M6 Mäh-Saugkombi.
ground bolt M6 mower sucction
- X63B Stecker 19pol. 2-Besen (W11)
plug 19 pole 2-brooms (W11)
- X63D Stecker 19pol. Mäh.-Saugkombi.
plug 19 pole mower sucction (W23)
- X63F Stecker 19pol. Anbauger. unkodiert
attechment uncoded (W29)
- X63G Stecker 19pol. Kombi-Kehreinheit
plug 19 pole hydr. driven comb.sweeper (W35)
- XS24 Stossverbinder (W11)
butt joint (N/W11)
- XS48 Stossverbinder (W35)
butt joint (N/W35)
- XS56 Stossverbinder (W23)
butt joint (W23)
- Y21 Proportionalventil Seitenbesen (Var.2 Besen)
prop.valve broom speed (var. 2 brooms)
- Y30 Hydraulikventil
hydraulic valve



0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	Schaltplan / circuit diagram	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362		
					Drawn by	21.08.	DK							
					Verified									
A2	No.	Number appears	Change No.	Date	Name	Standard		Replacem. for Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABl 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 17



Legende

- B05 Druckschalter Klimaanlage (Var.Comfort)
pressure switch AC (var.Comfort)
- B06 Einfrierschutz Klimaanlage (Var.Comfort)
freeze switch AC (var.Comfort)
- K09 Relais Klimaanlage (Var.Comfort)
relay AC system (var. comfort)
- M04 Kondensatorlüfter (Var.Comfort)
condensor fan (var.Comfort)
- M07 Heizungsgebläse (Var. Classic)
heating fan (var. Classic)
- S13 Schalter Klimaanlage (Var.Comfort)
switch AC (var.Comfort)
- S14 Drehschalter Heizungsgebläse
rotary switch heating fan
- X10 Steckverbinder 8pol. (W1<-W5)
connector 8 pole (W1<->W5)
- X18 Steckverbinder 20pol. (W4<-W5)
connector 20 pole (W4<->W5)
- X19 Steckverbinder 6pol. (W5<-W4)
connector 6 pole (W5<->W4)
- X31 Steckverbinder 16pol. (W1<-W9)
connector 16 pole (W1<->W9)
- X83A Steckverbinder 1pol. (W4)
connector 1 pole (W4)
- X83B Steckverbinder 1pol. (WS4)
connector 1 pole (WS4)
- X84A Steckverbinder 1pol. (W4)
connector 1 pole (W4)
- X84B Steckverbinder 1pol. (WS4)
connector 1 pole (WS4)
- Y09 Kupplung Klimakompressor
clutch compressor AC (var.Comfort)



A2	No.	Number appears	Change No.	Date	Name	Standard	2019	Date	Name
0	Integrated acc.	4000-34	20.01.20	DK	Drawn by	21.08.	DK		
					Verified				

CM650	Name
Replacem. for	Schaltplan / circuit diagram
Change No.	

For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 18
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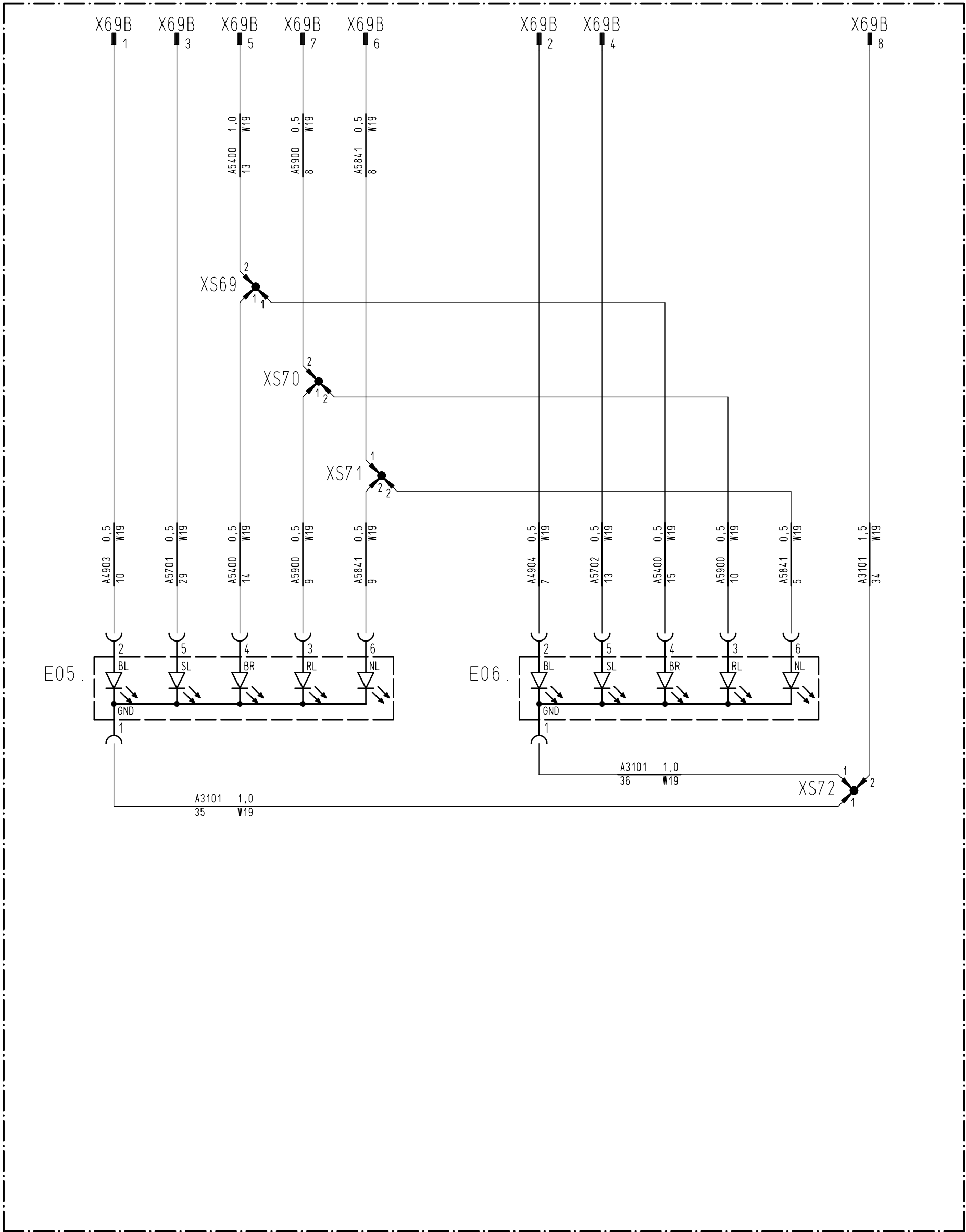
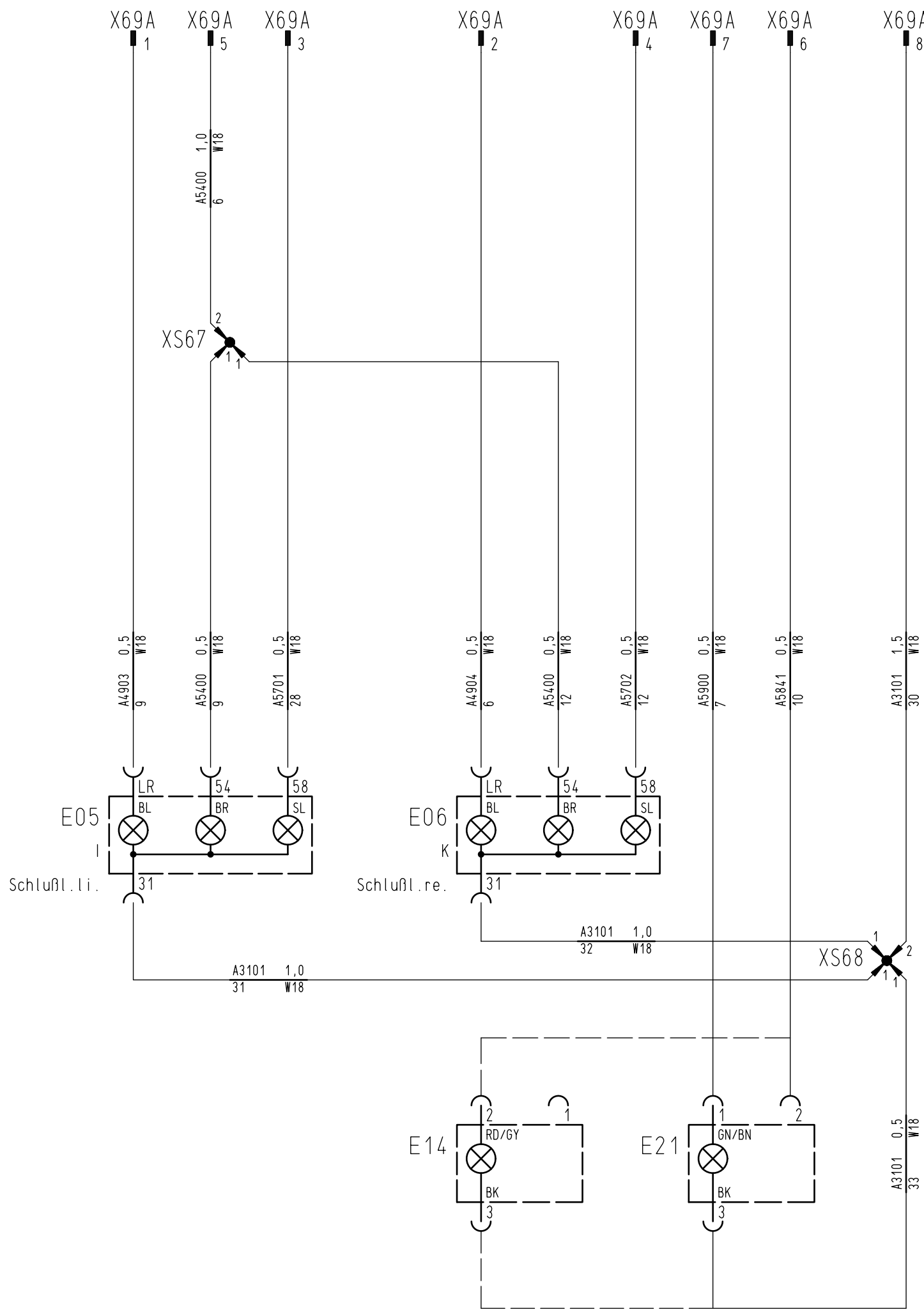


Drawing Number	91039362
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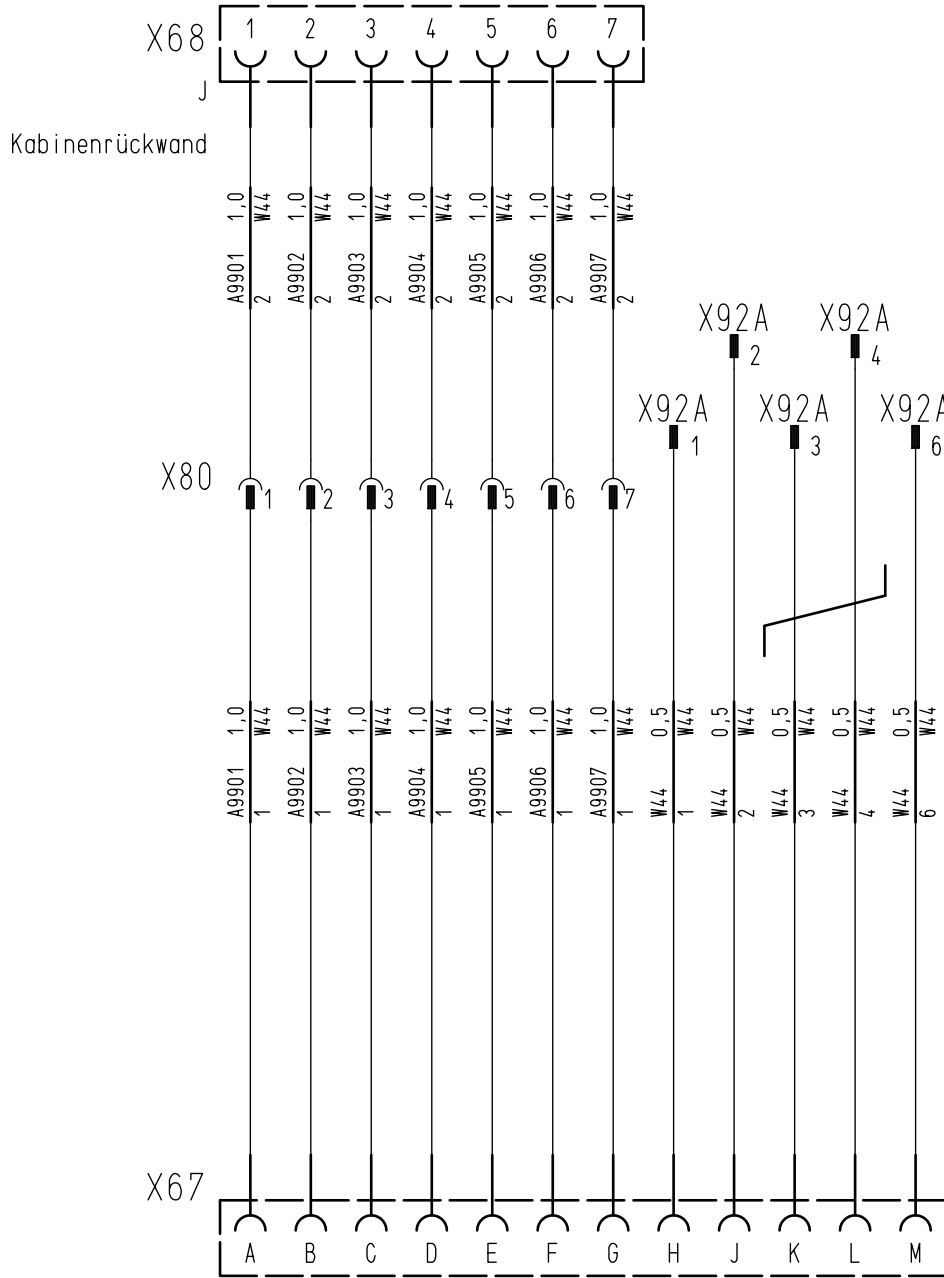
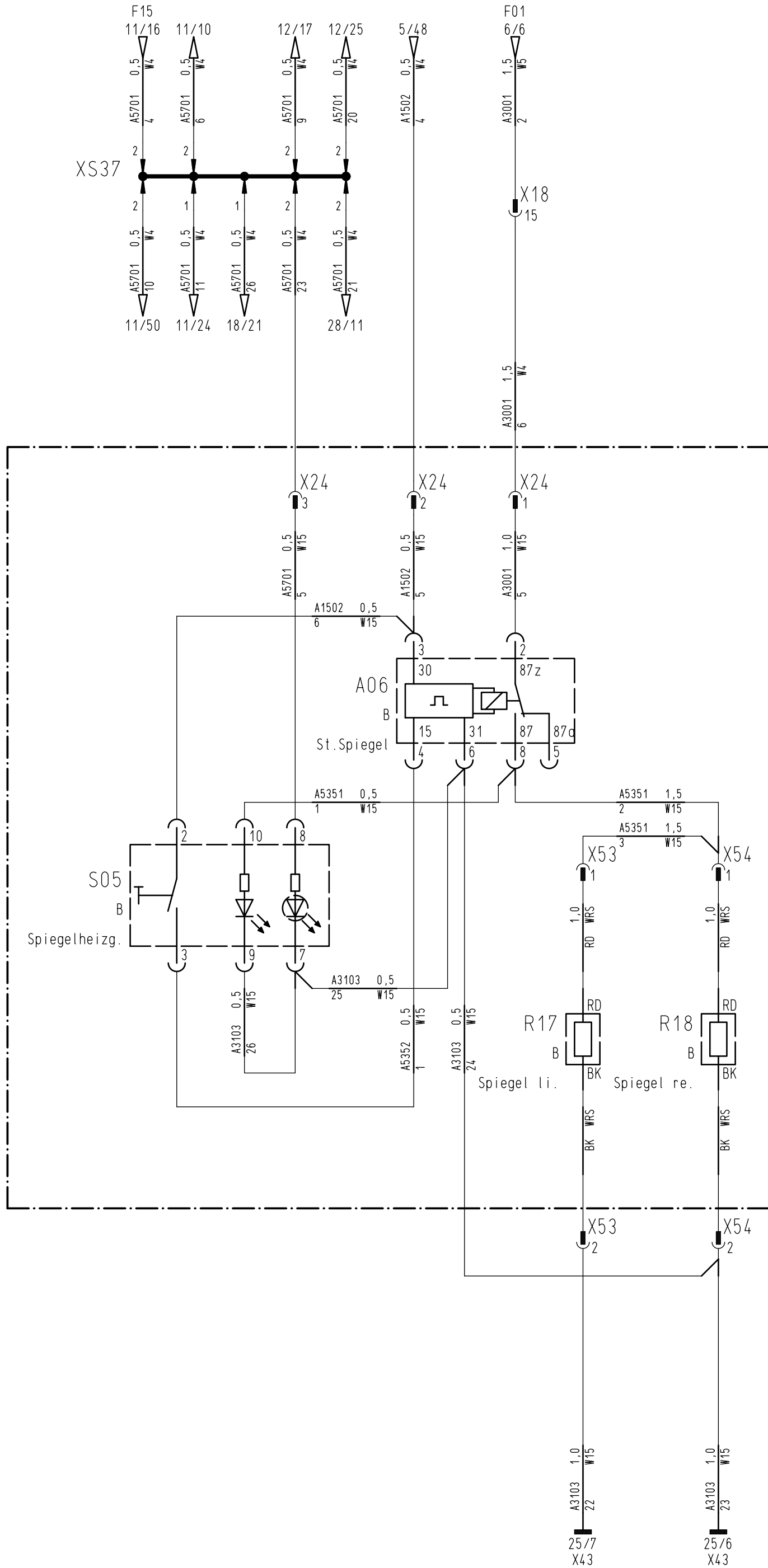
Legende

- E05 Schlußleuchte links
tail light left
E05. LED Mehrkammerleuchte hinten links
multi-chamber lights left
E06 Schlußleuchte rechts
tail light right
E06. LED Mehrkammerleuchte hinten rechts
multi-chamber lights right
E14 Nebelschlußleuchte (SOW)
rear fog lamp
E21 Rückfahrleuchte
reversing light

- X69A Steckverbinder 8pol. (W7<-W18)
connector 8 pole (W7<->W18)
X69B Steckverbinder 8pol. (W7<-W19)
connector 8 pole (W7<->W19)
XS67 USSP (W18)
ussp (W18)
XS68 USSP (W18)
ussp (W18)
XS69 USSP (W19)
ussp (W19)
XS70 USSP (W19)
ussp (W19)
XS71 USSP (W19)
ussp (W19)
XS72 USSP (W19)
ussp (W19)



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 21.08.	Name DK	CM650	Name Replacem. for Change No.	Schaltplan / circuit diagram	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABl 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 19	Drawing Number 91039362



H = F31(30)
J = F29(15)
K = Bus
L = Bus
M = Masse

- Legende
- A06

Steuergerät Spiegelheizung
controller mirror heating
- R17

Spiegelheizung links
mirror heating left
- R18

Spiegelheizung rechts
mirror heating right
- S05

Taster Spiegelheizung
pushbutton mirror heating
- X18

Steckverbinder 20pol. (W4<-W5)
connector 20 pole (W4<->W5)
- X24

Steckverbinder 4pol. (W4<-W15)
connector 4 pole (W4<->W15)
- X53

Steckverbinder 2pol. (W15<-R17)
connector 2 pole (W15<-R17)
- X54

Steckverbinder 2pol. (W15<-R18)
connector 2 pole (W15<-R18)
- X67

Steckdose 12pol. Streuer Lenksäule
connector 12 pole spreader steering pillar
- X68

Steckdose 7pol. Streuer Kabinenrückwand
connector 7 pole spreader cabine back
- X80

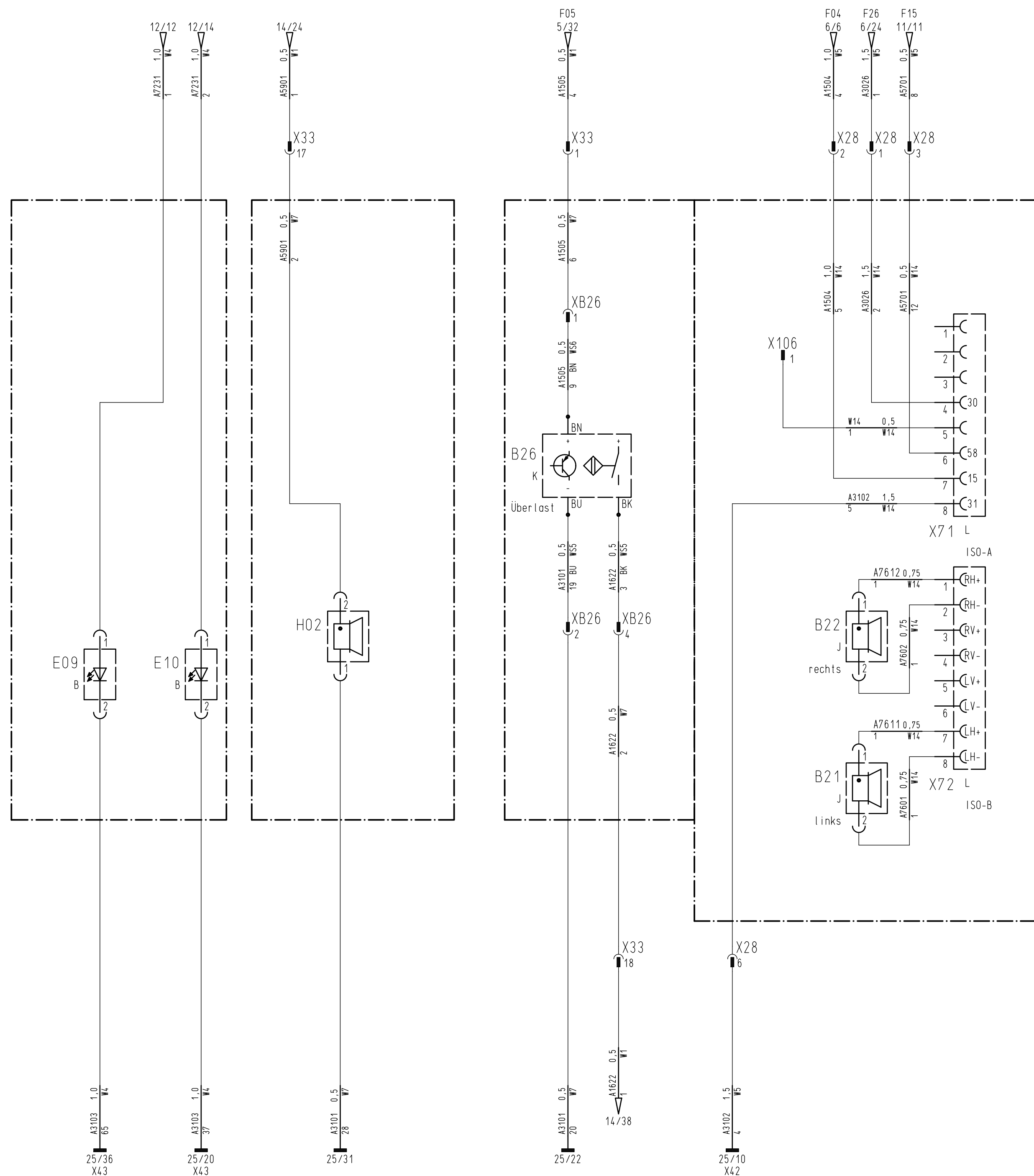
Steckverbinder 8pol. (W44<->W44)
connector 8 pole (W44<->W44)
- X92A

Steckverbinder 6pol. (W77/W79<->W44)
connector 6 pole (W77/W79<->W44)
- XS37

USSP (W4)
ussp (W4)



A2	0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	Schaltplan / circuit diagram				 Hako GmbH D-23840 Bad Oldesloe		Drawing Number 91039362	
	No.	Number appears	Change No.	Date	Name	Standard			Replacem. for	For this drawing we reserve all rights (acc. DIN ISO 16016)								
									Change No.									
											KABI 470		Type 1470	Dep. DS	No. of Sh. 38	Sheet 20		



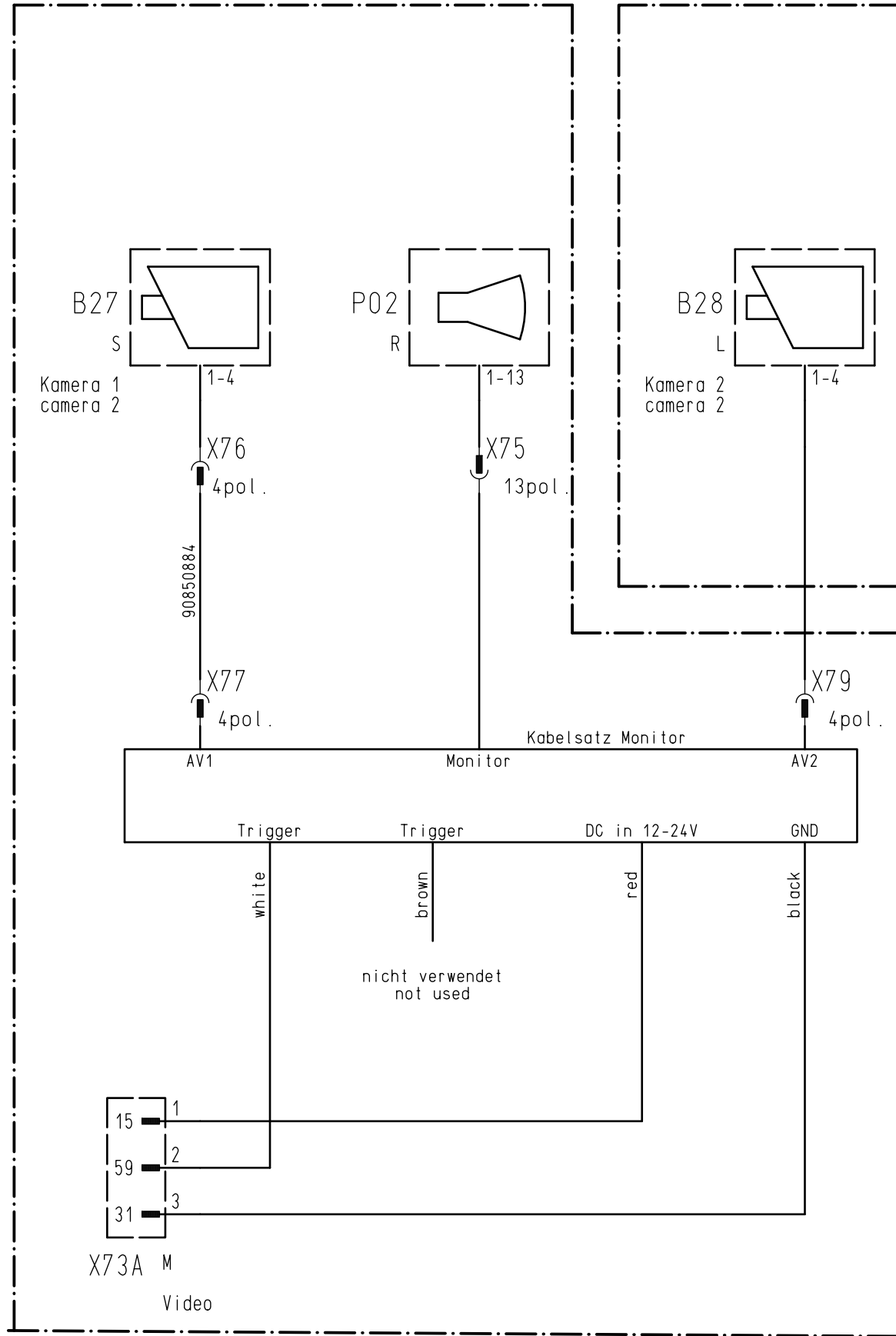
- Legende**
- B21 Lautsprecher links
loudspeaker left
 - B22 Lautsprecher rechts
loudspeaker right
 - B26 Sensor Überlast
sensor overload
 - E09 Arbeitsscheinwerfer oben links
work lamp top left
 - E10 Arbeitsscheinwerfer oben rechts
work lamp top right
 - H02 Signaltonger
buzzer
 - X28 Steckverbinder 6pol. (W14<->W5)
connector 6 pole (W14<->W5)
 - X33 Steckverbinder 18pol. (W1<->W7)
connector 18 pole (W1<->W7)
 - X71 Buchse 8pol. Radio ISO-A (W14)
jack 8 pole radio ISO-A (W14)
 - X72 Buchse 8pol. Radio ISO-B (W14)
jack 8 pole radio ISO-B (W14)
 - X106 Steckverbinder 1pol. (W14)
connector 1 pole (W14)
 - XB26 Steckverb. 4pol. Überlast
connector 4 pole overload



A2	No.	Number appears	Change No.	Date	Name	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
						Drawn by	21.08.	DK						Replacem. for	Schaltplan / circuit diagram
						Verified									
						Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABl 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 21

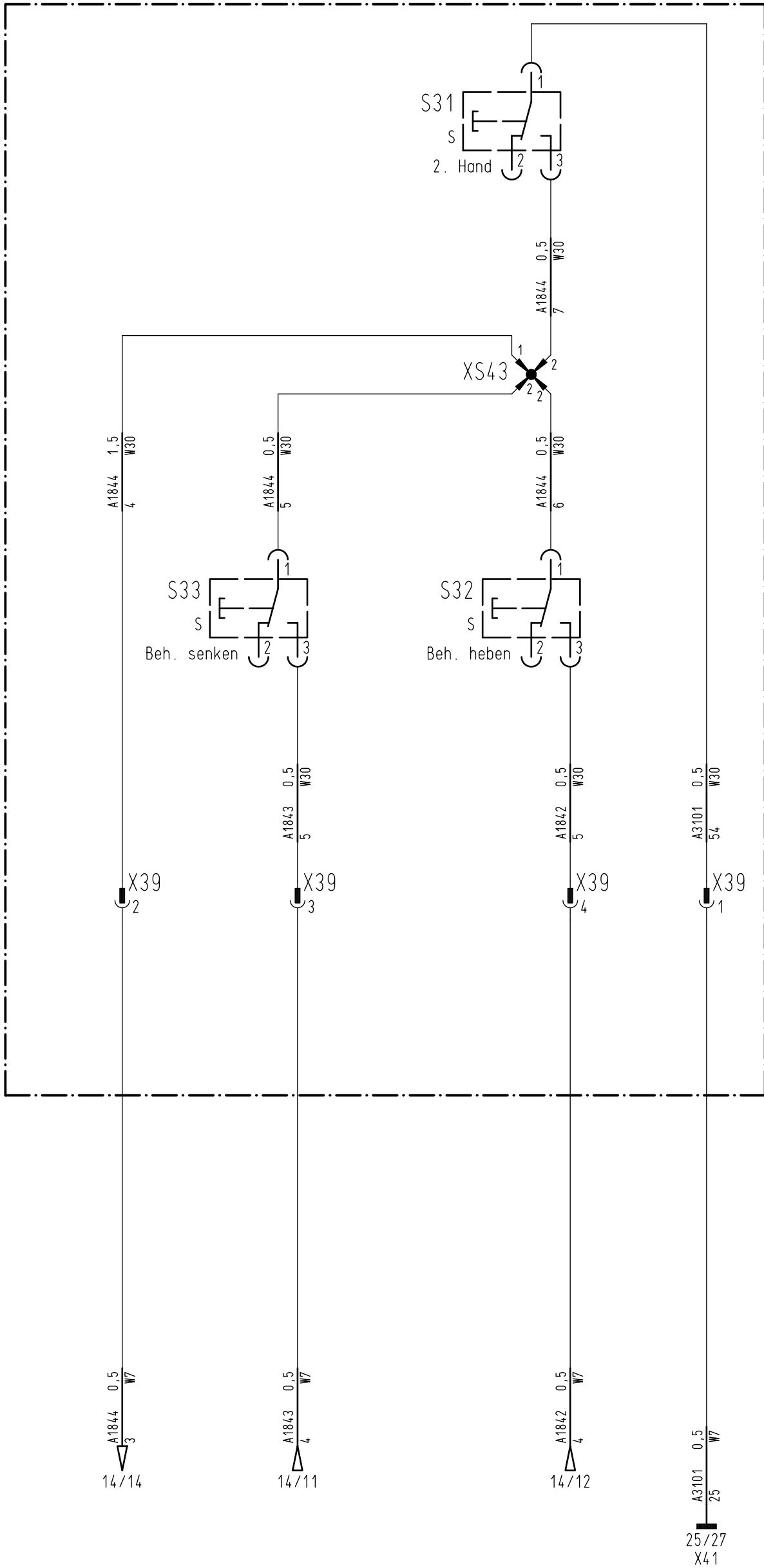


Drawing Number
91039362



Funktionshinweis:
Option Rückfahrkamera
wahlweise Daueranzeige oder Einschaltung bei Rückwärtsfahrt.
zusätzlich Option mit Zusatzkamera
Zusatzkamera m. automatischer Umschaltung bei Rückwärtsfahrt

Function note:
Option reverse drive camera
Optional permanent display or intervention when reversing.
Additional option with additional camera
Additional camera with automatic switch reversing.



- Legende**
- B27 Rückfahrkamera
reverse drive camera
 - B28 Zusatzkamera
additional camera
 - P02 Bildschirm
display
 - S31 Taster Behälter 2 Hand Fahrgestell
pushbutton container 2'nd hand
 - S32 Taster Behälter heben Fahrgestell
pushbutton switch hopper up
 - S33 Taster Behälter senken Fahrgestell
pushbutton switch hopper down
 - X39 Steckverbinder 4pol. (W7<->W30)
connector 4 pole (W7<->W30)
 - X73A Steckverbinder 3pol. Video
connector 3 pole camera
 - X75 Steckverb. 13pol. Bildschirm
connector 13 pole display
 - X76 Steckverb. 4pol. Kamera 1
connector 4 pole camera 1
 - X77 Steckverb. 4pol. Kamera 1
connector 4 pole camera 1
 - X79 Steckverb. 4pol. Kamera 2
connector 4 pole camera 2
 - XS43 Stossverbinder (W30)
butt joint (W30)



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 21.08.	Name DK	CM650 Replacem. for Change No.	Name Schaltplan / circuit diagram (Optionen)	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABI 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 22	Drawing Number 91039362



Legende

- A20

Fleetrecorder
fleetrecorder
- B30

I-Button-Reader
i-button-reader
- R102

Widerstand 1k
resistor 1k0hm
- X91

Steckverbinder 8pol. (W5<->W77/W79)
connector 8 pole (W5<->W77/W79)
- X92

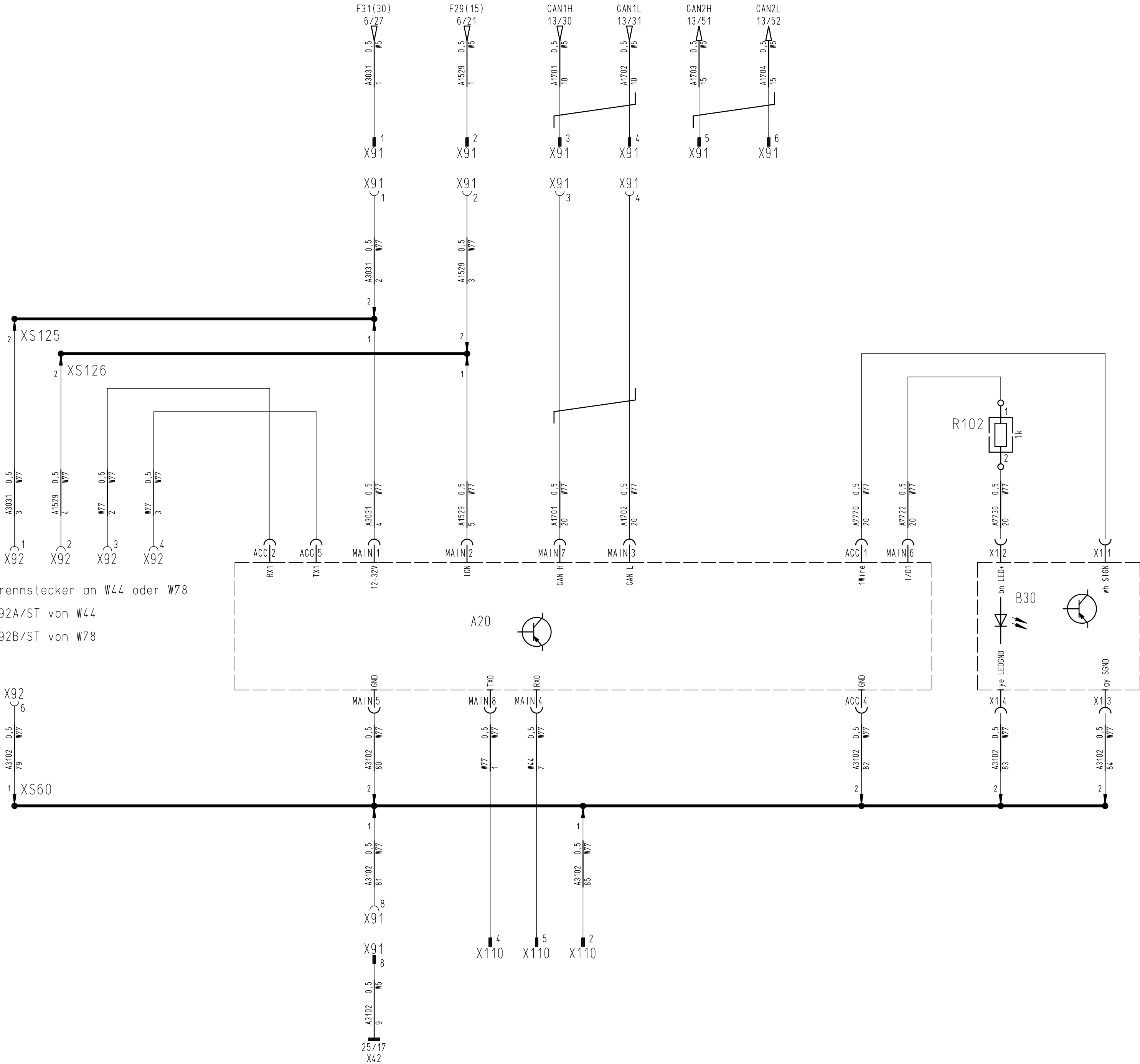
Steckverbinder 6pol. (W77/W79<->W44)
connector 6 pole (W77/W79<->W44)
- X110

Stecker 6pol. Diagnose Fleet (W77)
diagnosis socket 6 pole Fleet (W77)
- XS60

USSP (W77)
ussp (W77)
- XS125

USSP (W77)
ussp (W77)
- XS126

USSP (W77)
ussp (W77)



Trennstecker an W44 oder W78
X92A/ST von W44
X92B/ST von W78



Drawing Number
91039362

No. of Sh. 38 Sheet 23

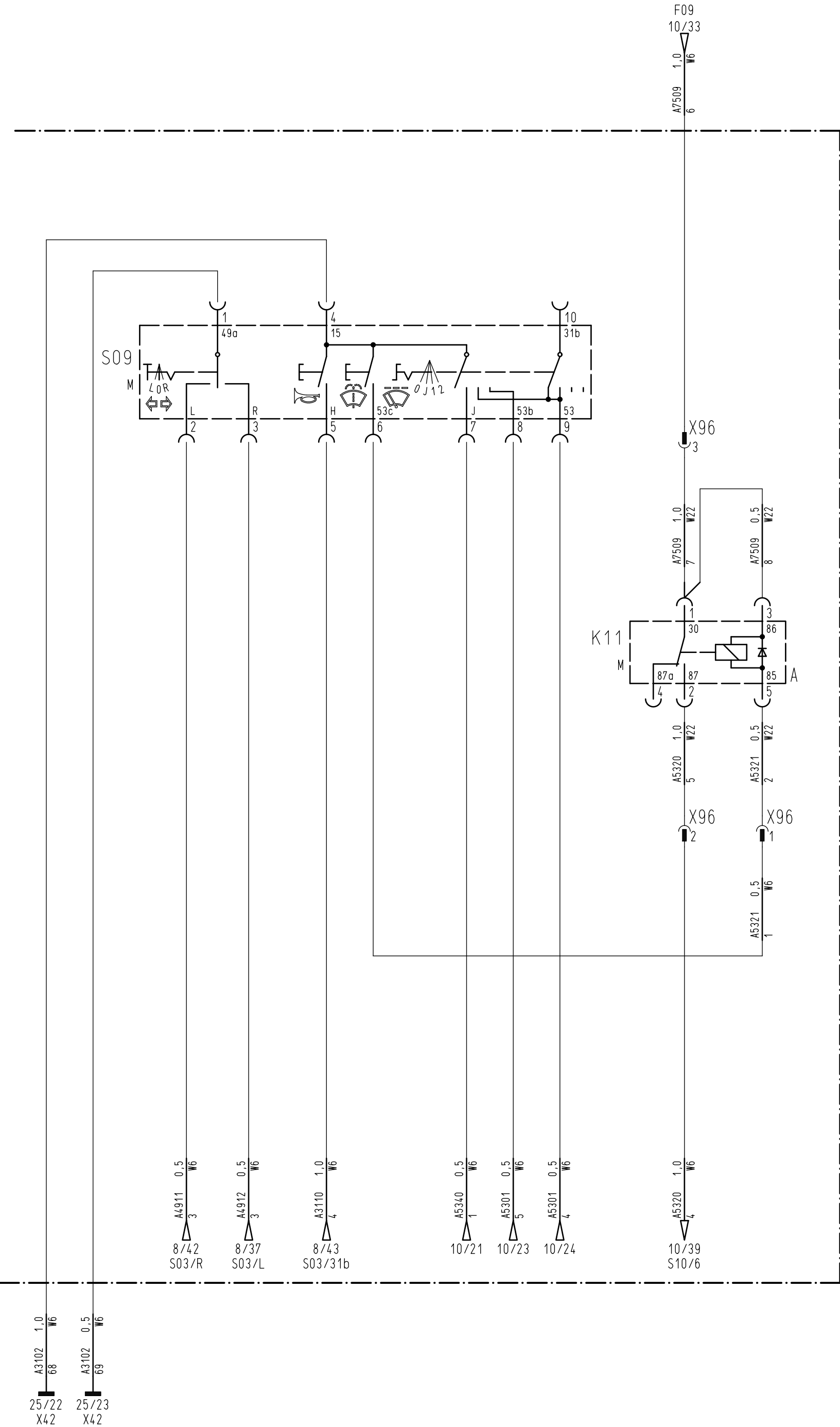
Legende

- K11

Relais Scheibenwaschpumpe
relay windscreen washer pump
- S09

Lenkstockschar Komfort
steering wheel switch comfort
- X96

Steckverbinder 4pol. (W6<->W22)
connector 4 pole (W6<->W22)



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 21.08.	Name DK	CM650	Name Replacem. for Change No.	Schaltplan / circuit diagram (Optionen)	For this drawing we reserve all rights (acc. DIN ISO 16016)	KABl 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 24	Drawing Number 91039362



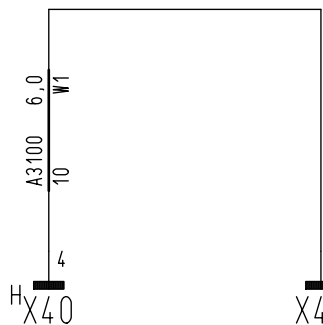
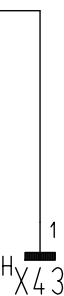
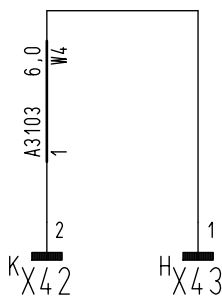
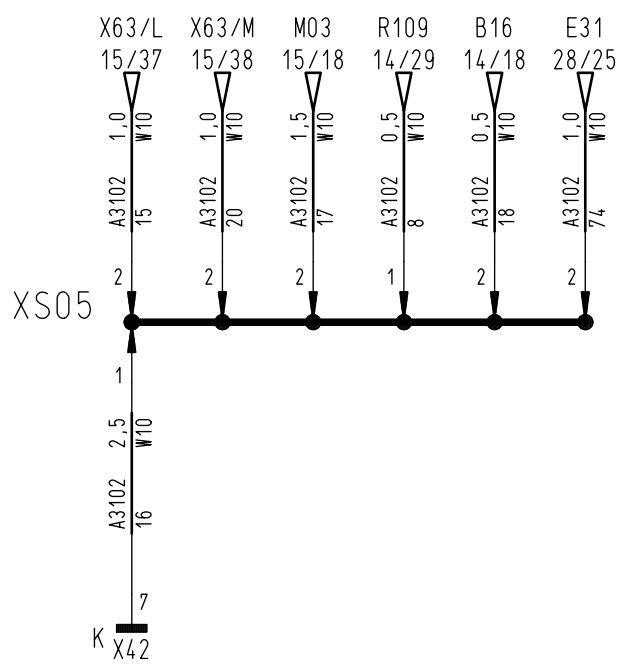
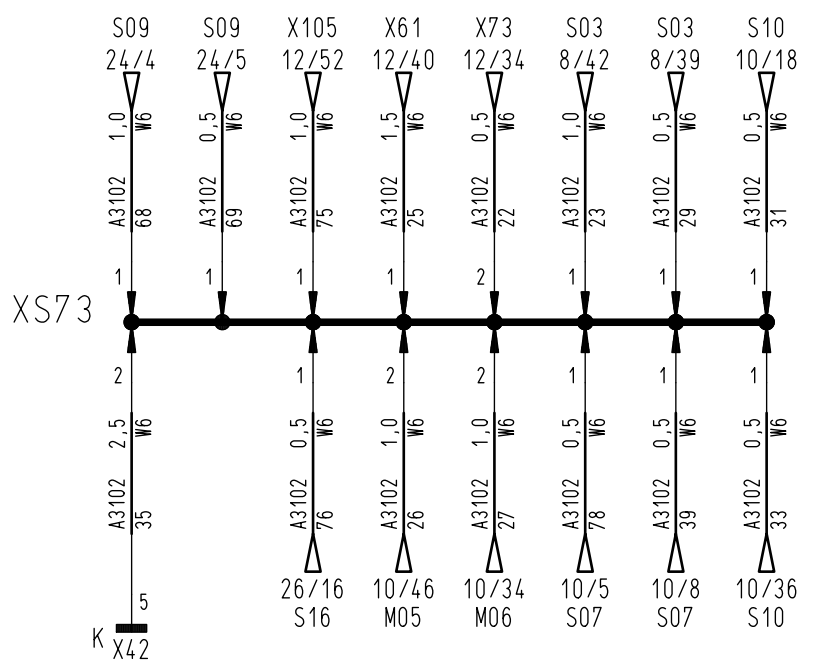
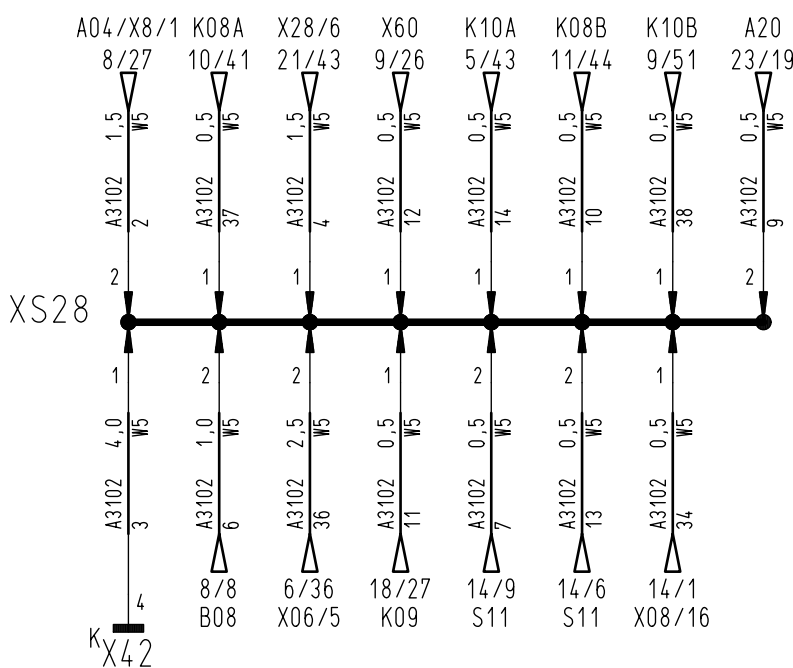
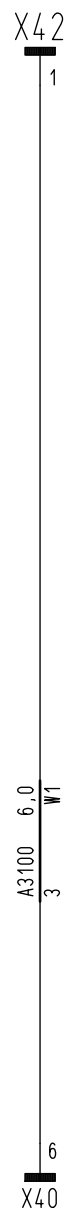
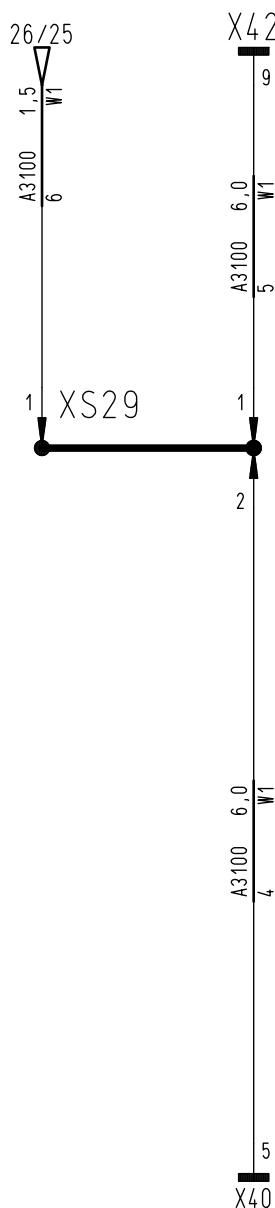
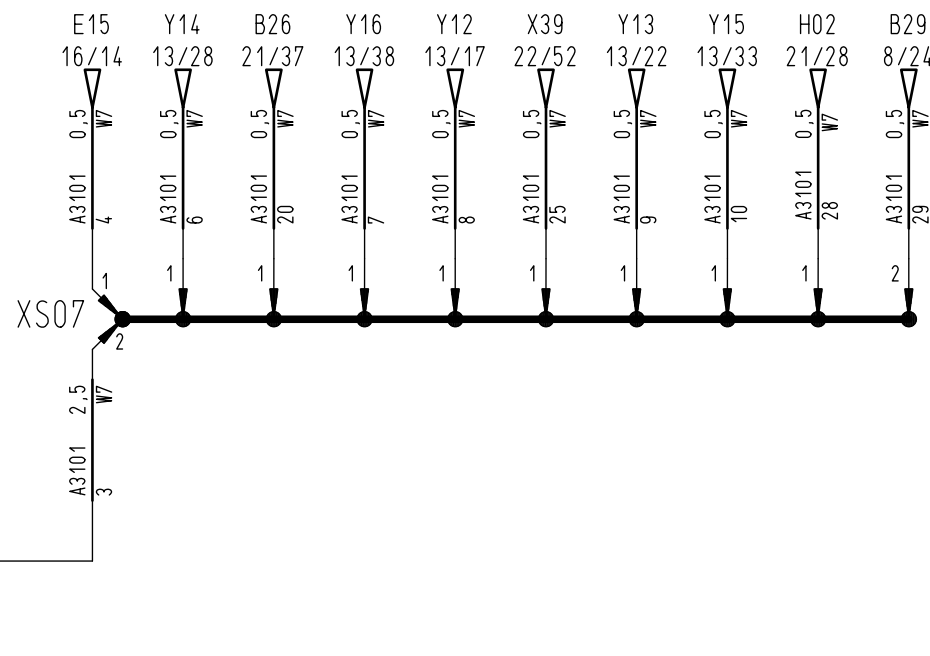
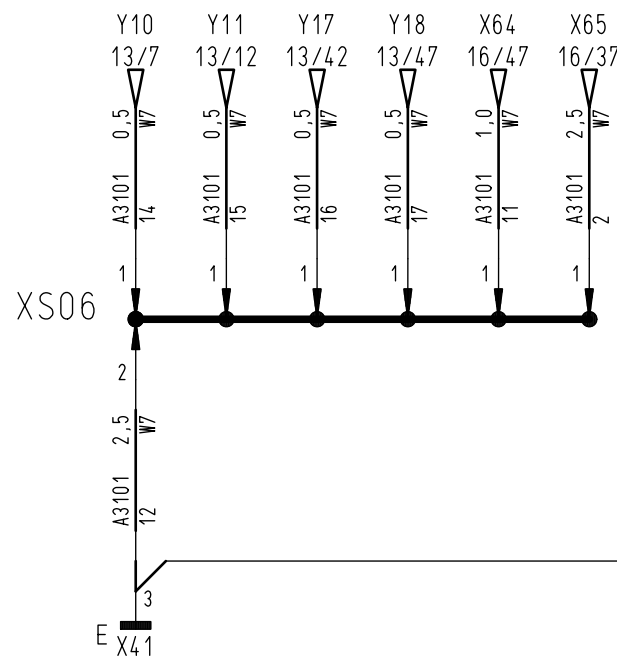
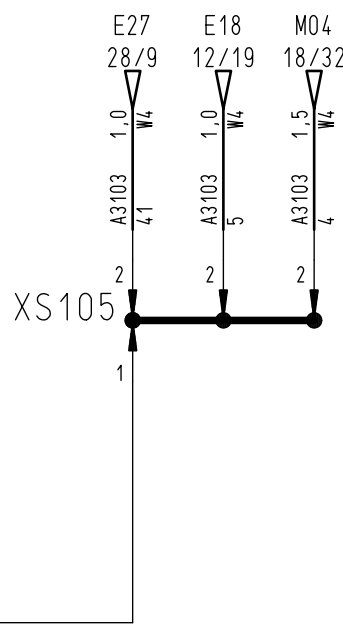
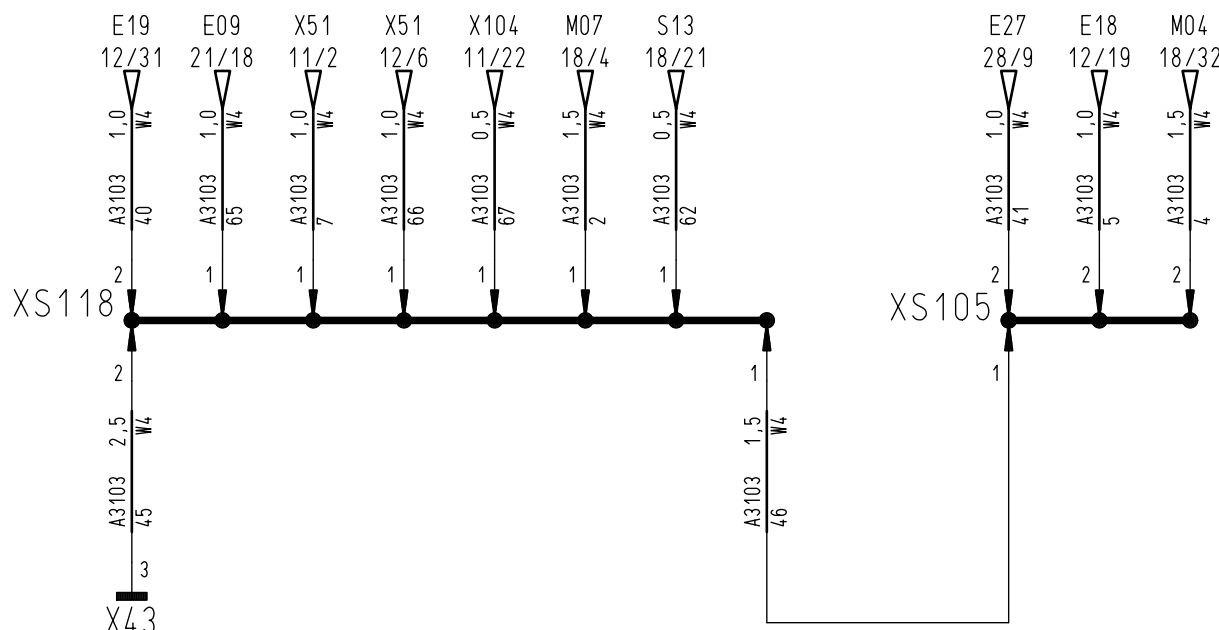
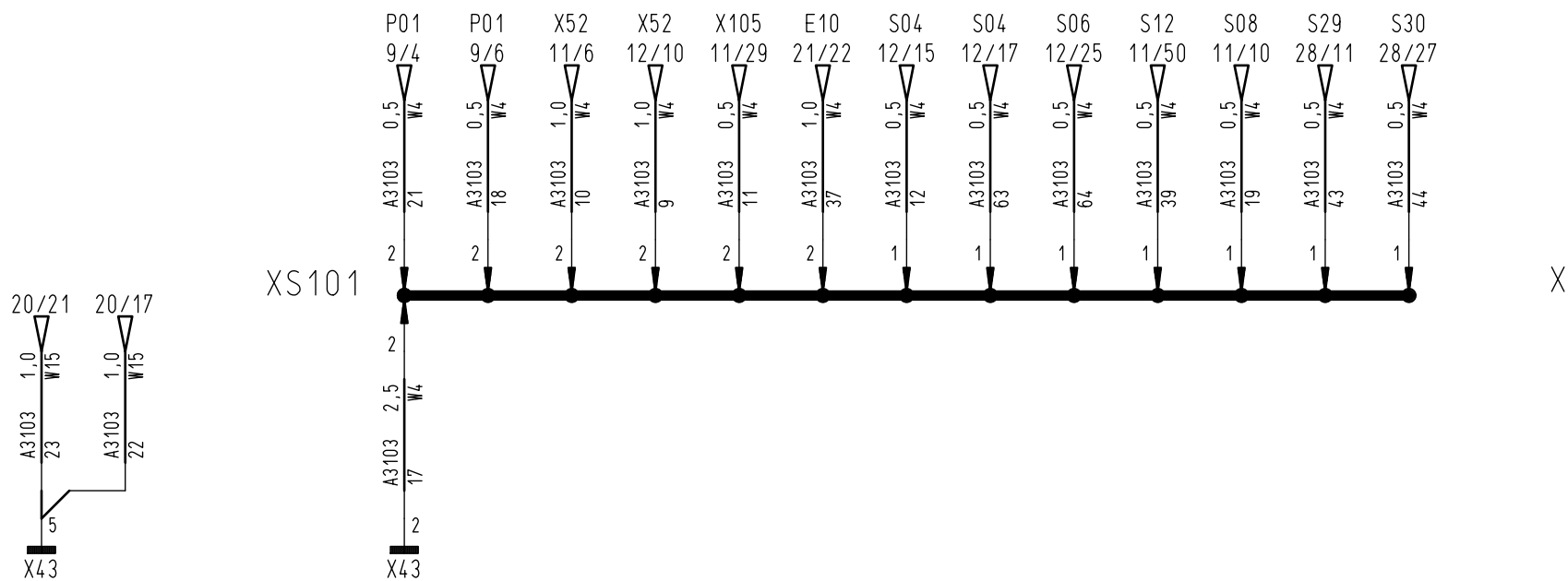
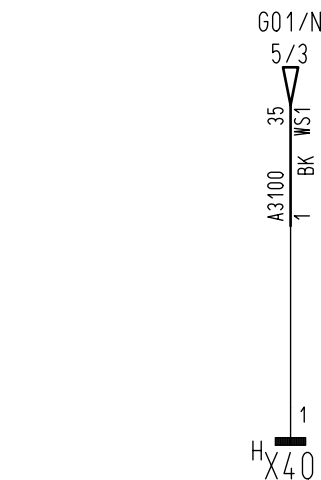


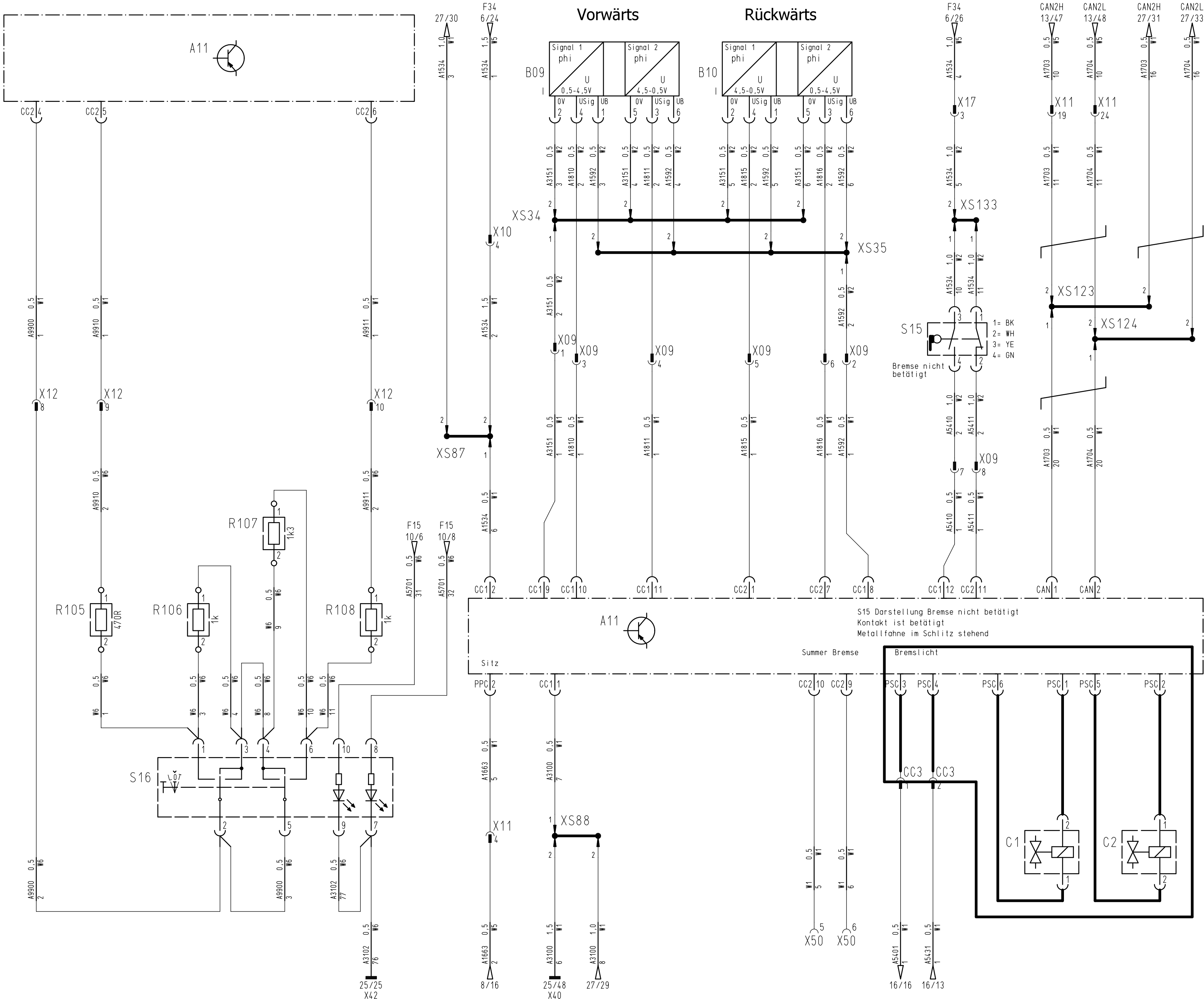
A2	No.	Number appears	Change No.	Date	Name	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
						Drawn by	21.08.	DK						Replacem. for	
						Verified									
						Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 470	Type 1470	Dep. DS	No. of Sh. 38	Sheet 25

Legende

- X40 Massebolzen M10 Fahrgestell
ground bolt M10 chassis tail
- X41 Massebolzen M6 Elektrokasten
ground bolt M6 electric box
- X42 Massebolzen M6 Seitenk. rechts
ground bolt M6 console right
- X43 Massebolzen M5 Kabinendach
ground bolt M6 cabin roof right
- X46 Massebolzen M10 Motor
ground bolt M10 motor
- XS05 USSP (W10)
ussp (W10)
- XS06 USSP (W7)
ussp (W7)
- XS07 USSP (W7)
ussp (W7)
- XS28 USSP (W5)
ussp (W5)
- XS29 USSP (W1)
ussp (W1)
- XS73 USSP (W6)
ussp (W6)
- XS101 USSP (W4)
ussp (W4)
- XS105 USSP (W4)
ussp (W4)
- XS118 USSP (W4)
ussp (W4)

1x 19497031
Masseband 50mm²





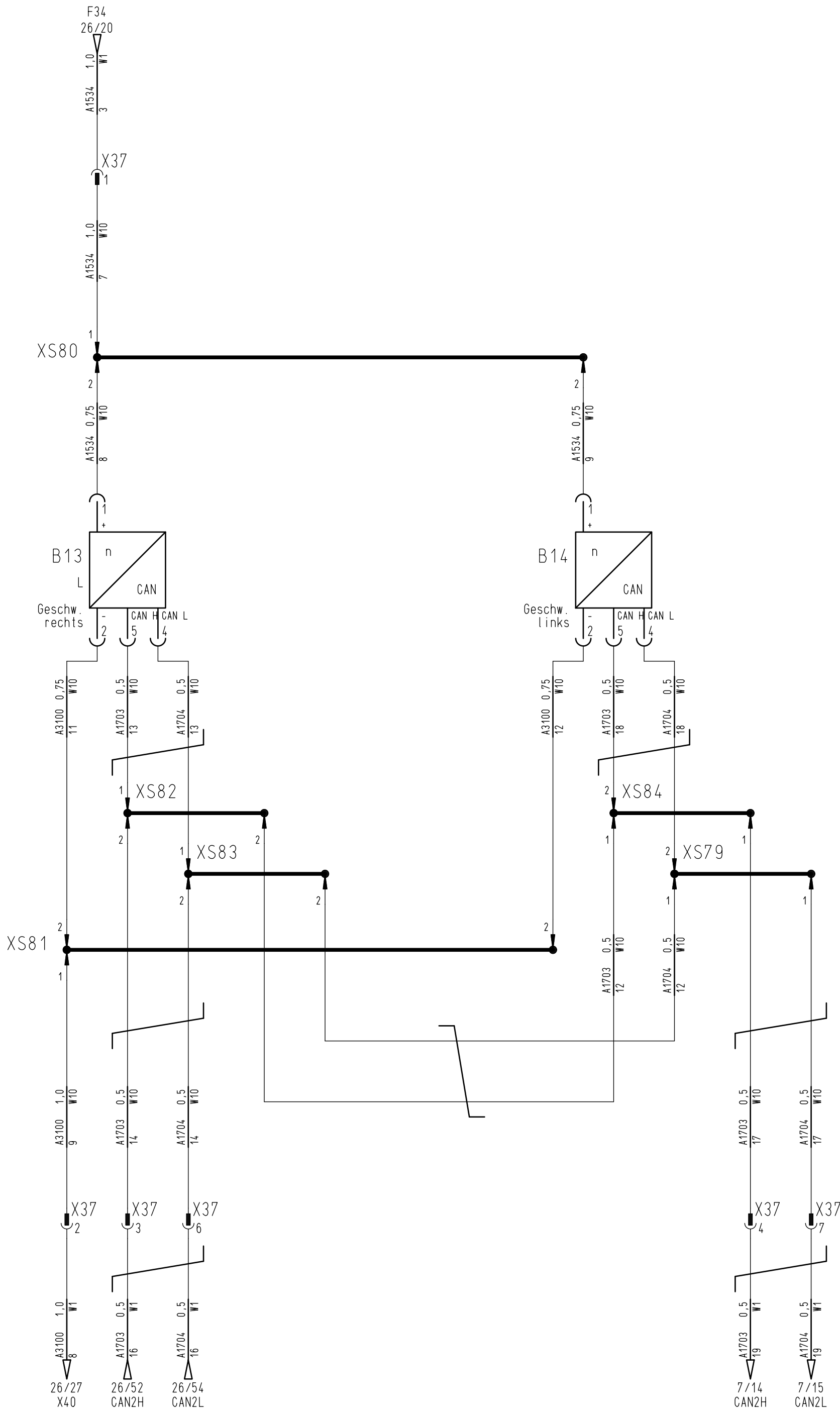
- ### Legende
- A11 Steuerung Fahrpumpe
hydraulic traction pump
 - B09 Winkelsensor Fahrpedal vorwärts
angle sensor throttle pedal forward
 - B10 Winkelsensor Fahrpedal rückwärts
angle sensor throttle pedal backward
 - C1 Hydraulikventil Fahrpumpe
hydraulic valve traction pump
 - C2 Hydraulikventil Fahrpumpe
hydraulic valve traction pump
 - CC3 Steckverbinder 2pol. (W1<->A11 Fahrpumpe)
connector 2 pole (W1<->A11 traction pump)
 - R105 Widerstand 470R
resistor 470R
 - R106 Widerstand 1k
resistor 1k0hm
 - R107 Widerstand 1k3
resistor 1k30hm
 - R108 Widerstand 1k
resistor 1k0hm
 - S15 Schalter Bremse
switch brake
 - S16 Taster Tempomat/Limiter
push-button cruise control/limiter
 - X09 Steckverbinder 8pol. (W1<-W2)
connector 8 pole (W1<->W2)
 - X10 Steckverbinder 8pol. (W1<-W5)
connector 8 pole (W1<->W5)
 - X11 Steckverbinder 24pol. (W1<-W5)
connector 24 pole (W1<->W5)
 - X12 Steckverbinder 10pol. (W1<-W6)
connector 10 pole (W1<->W6)
 - X17 Steckverbinder 4pol. (W2<-W5)
connector 4 pole (W2<->W5)
 - X50 Steckverbinder 8pol. (W1<-W5)
connector 8 pole (W1<->W5)
 - XS34 USSP (W2)
ussp (W2)
 - XS35 USSP (W2)
ussp (W2)
 - XS7 USSP (W1)
ussp (W1)
 - XS8 USSP (W1)
ussp (W1)
 - XS123 USSP (W1)
ussp (W1)
 - XS124 USSP (W1)
ussp (W1)
 - XS133 USSP (W2)
ussp (W2)



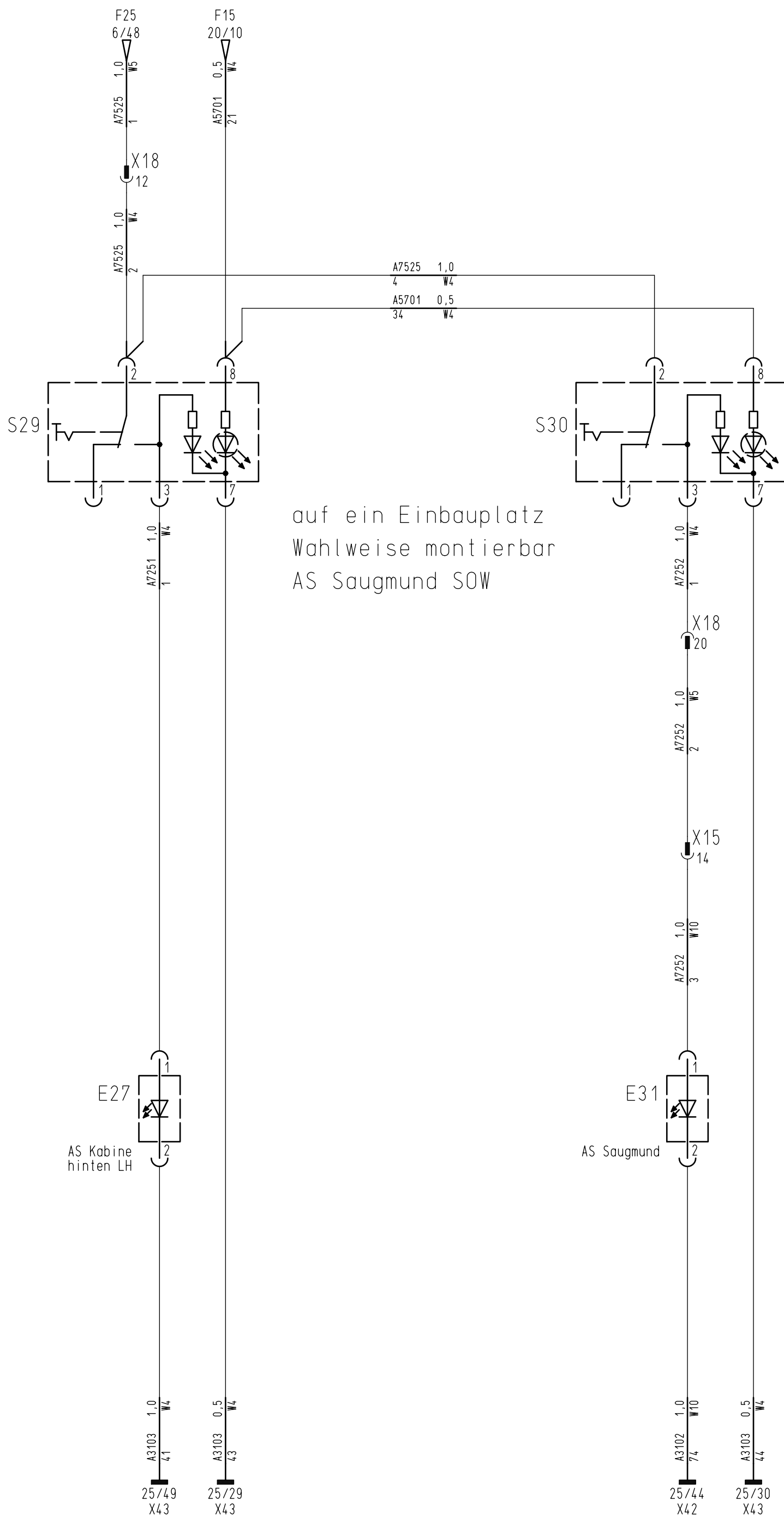
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					Drawn by	21.08.	DK	Replacem. for	For this drawing we reserve all rights (acc. DIN ISO 16016)						
A2	No. Number appears	Change No.	Date	Name	Standard			Change No.							



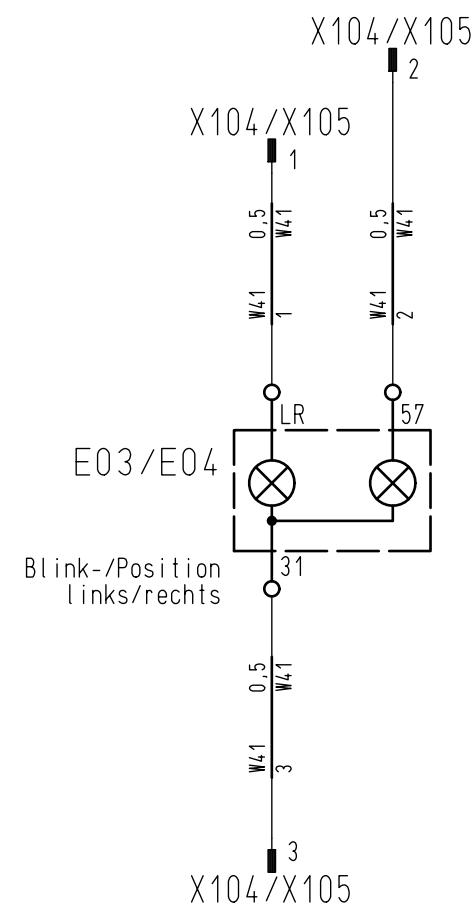
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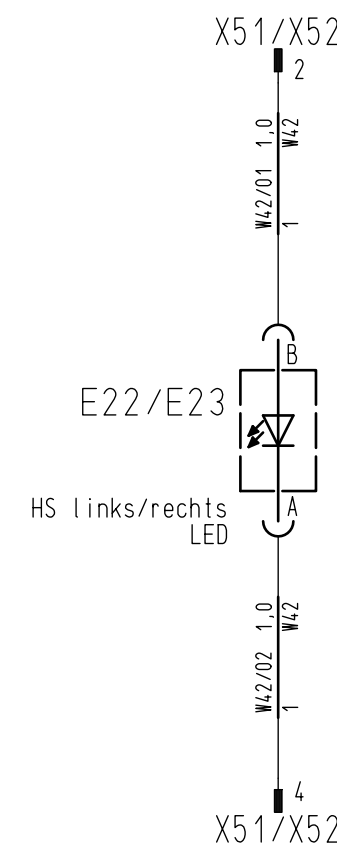
Legende	
B13	Tachosensor rechts vehicle speed sensor right
B14	Tachosensor links vehicle speed sensor left
X37	Steckverbinder 12pol. (W1<-W10) connector 12 pole (W1<->W10)
XS79	USSP (W10) ussp (W10)
XS80	USSP (W10) ussp (W10)
XS81	USSP (W10) ussp (W10)
XS82	USSP (W10) ussp (W10)
XS83	USSP (W10) ussp (W10)
XS84	USSP (W10) ussp (W10)



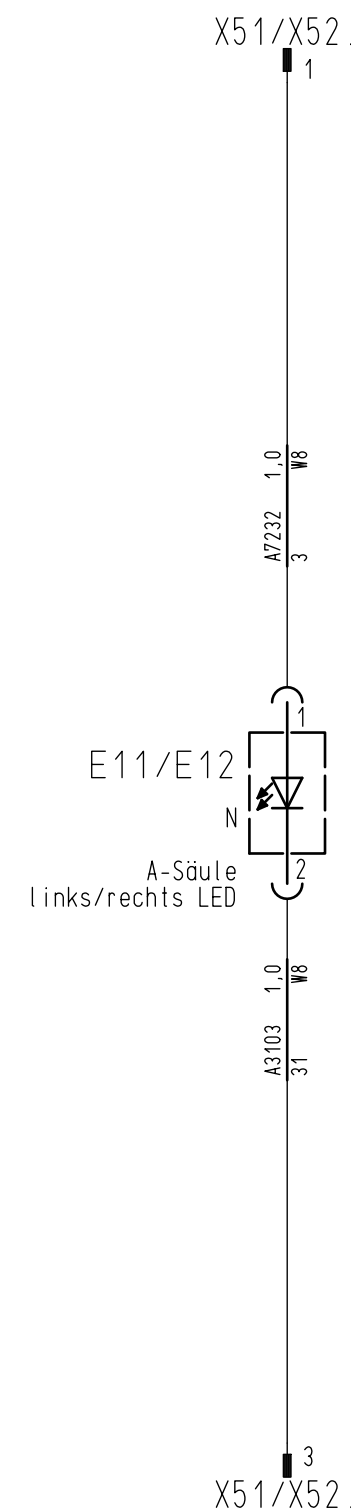
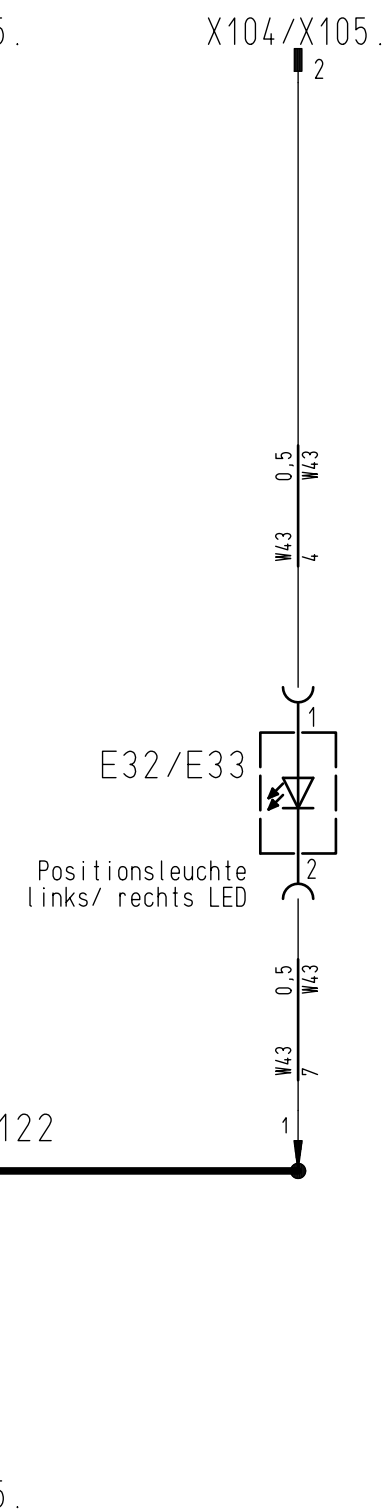
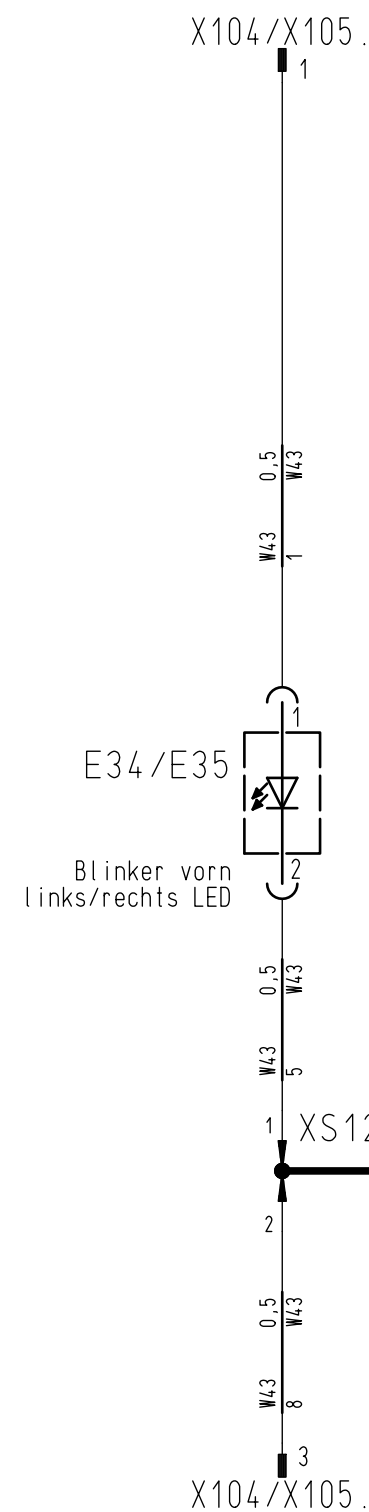
Blink-/Positionsleuchte Std.



Abblendlichtscheinwerfer LED



Blink- /Positionsleuchte LED



Legende

- E03/E04 Blink/Begrenzungsleuchten Standard LH/RH front indicator/position LH/RH
E11/E12 Arbeitsscheinwerfer A-Säule LH/RH work lamps A-pillar LH/RH
E22/E23 Hauptscheinwerfer LED LH/RH headlight LED LH/RH
E27 Arbeitsscheinwerfer Kabine hinten links working light cabin back left
E31 Arbeitsscheinwerfer Saugmund working light suction mouth
E32/E33 Positionsleuchte LED LH/RH navigation lights LED LH/RH
E34/E35 Blinker vorn LED LH/RH indicator lamps front LED LH/RH

S29 Schalter Arbeitssch. Kabine hinten switch working lights cabin back
S30 Schalter Arbeitssch. Saugmund switch working light suction mouth

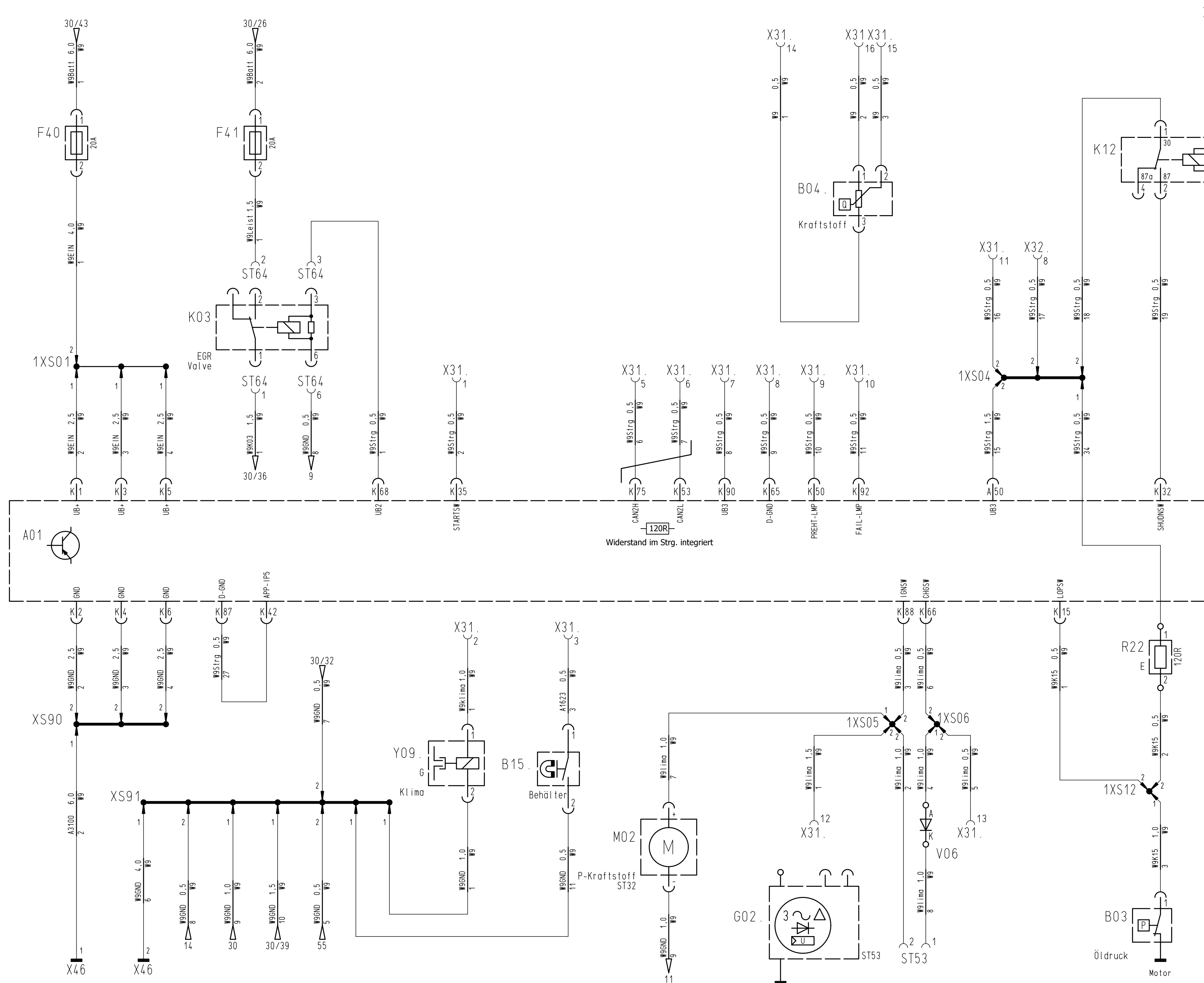
X15 Steckverbinder 14pol. (W10<->W5) connector 14 pole (W10<->W5)
X18 Steckverbinder 20pol. (W4<->W5) connector 20 pole (W4<->W5)
X51/X52 Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)
X51/X52. Steckverbinder 4pol. (W4<->W8/W42) connector 4 pole (W4<->W8/W42)
X104/X105 Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)
X104/X105. Steckverbinder 3pol. (W4<->W41/W43) connector 3 pole (W4<->W41/W43)
XS122 USSP (W43) ussp (W43)



A2	No.	Number appears	Change No.	Date	Name	Standard	2019 Drawn by Verified	Date 24.04.	Name DK	CM650 Replacem. for Change No.	Name Schaltplan / circuit diagram For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 28



Drawing Number
91039362

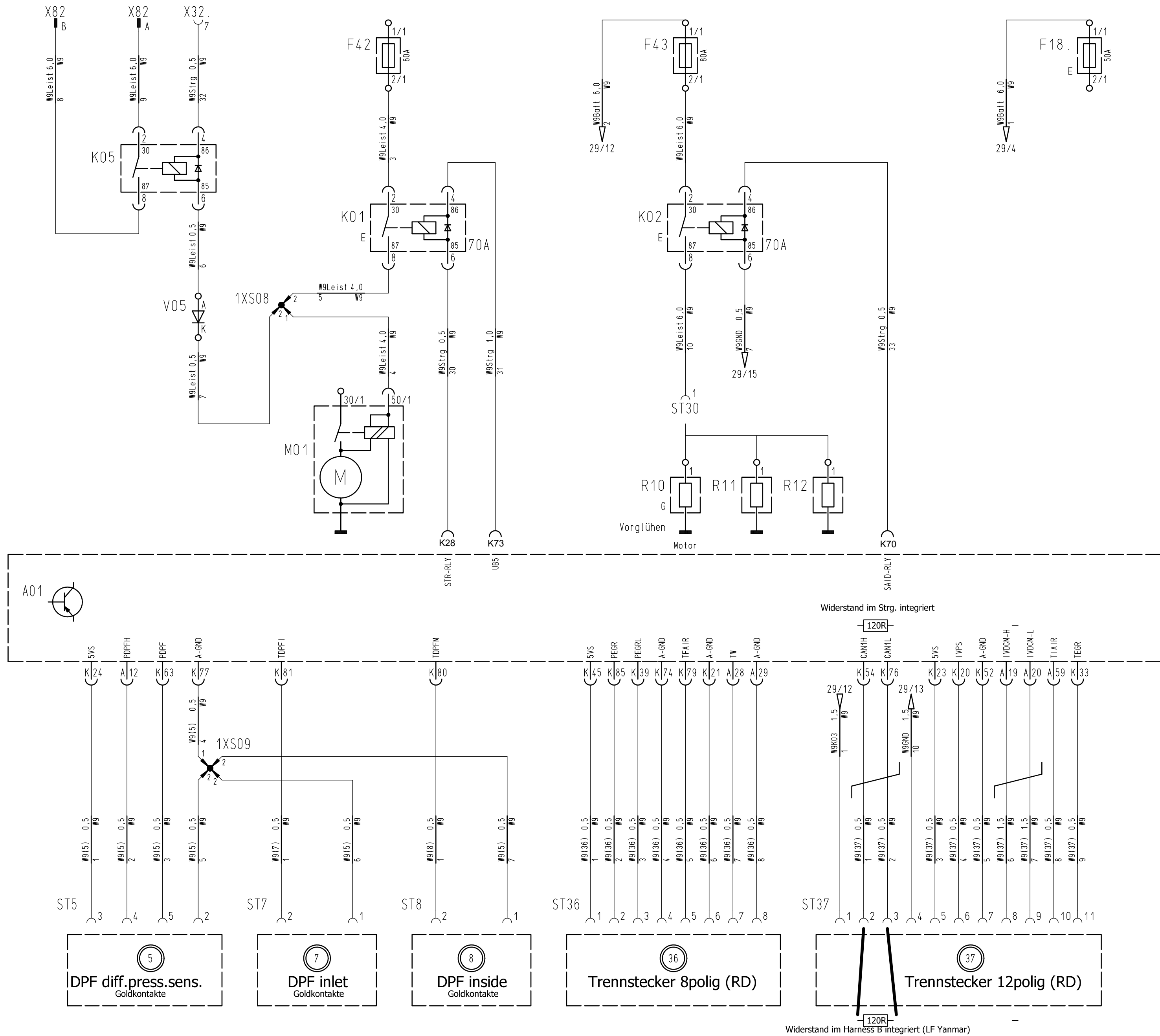


Legende

- A01 Motorsteuergerät ECU
engine controller ECU
- B03 Öldruckschalter
oil pressure switch
- B04. Niveausensor Kraftstofftank
fuel level sensor
- B15. Reed-Sensor Behälter oben
hopper reed switch
- F40 Sicherung 20A
fuse 20A
- F41 Sicherung 20A
fuse 20A
- G02. Generator 12V
alternator 12V
- K03 Relais EGR Ventil
relay EGR valve
- K12 Relais
relay
- M02 Kraftstoffpumpe
fuel pump
- R22 Widerstand 120R
resistor 1200hm
- ST53 Anschlusstecker 2pol. (W9)
connector 2 pole (W9)
- ST64 Anschlusstecker 6pol. (W9)
connector 6 pole (W9)
- V06 Diode
diode
- X31. Steckverbinder 16pol. (W1<-W9)
connector 16 pole (W1<->W9)
- X32. Steckverbinder 12pol. (W1<-W9)
connector 12 pole (W1<->W9)
- X46 Massebolzen M10 Motor
ground bolt M10 motor
- 1XS01 USSP (W9)
ussp (W9)
- 1XS04 USSP (W9)
ussp (W9)
- 1XS05 USSP (W9)
ussp (W9)
- 1XS06 USSP (W9)
ussp (W9)
- 1XS12 USSP (W9)
ussp (W9)
- XS90 USSP (W9)
ussp (W9)
- XS91 USSP (W9)
ussp (W9)
- Y09. Kupplung Klimakompressor
clutch compressor AC (var.Comfort)



0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362		
					Drawn by	21.08.	DK						
					Verified								
A2	No. Number appears	Change No.	Date	Name	Standard			Replacem. for	Schaltplan / circuit diagram				
								Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470 Dep. DS	No. of Sh. 38	Sheet 29



Legende

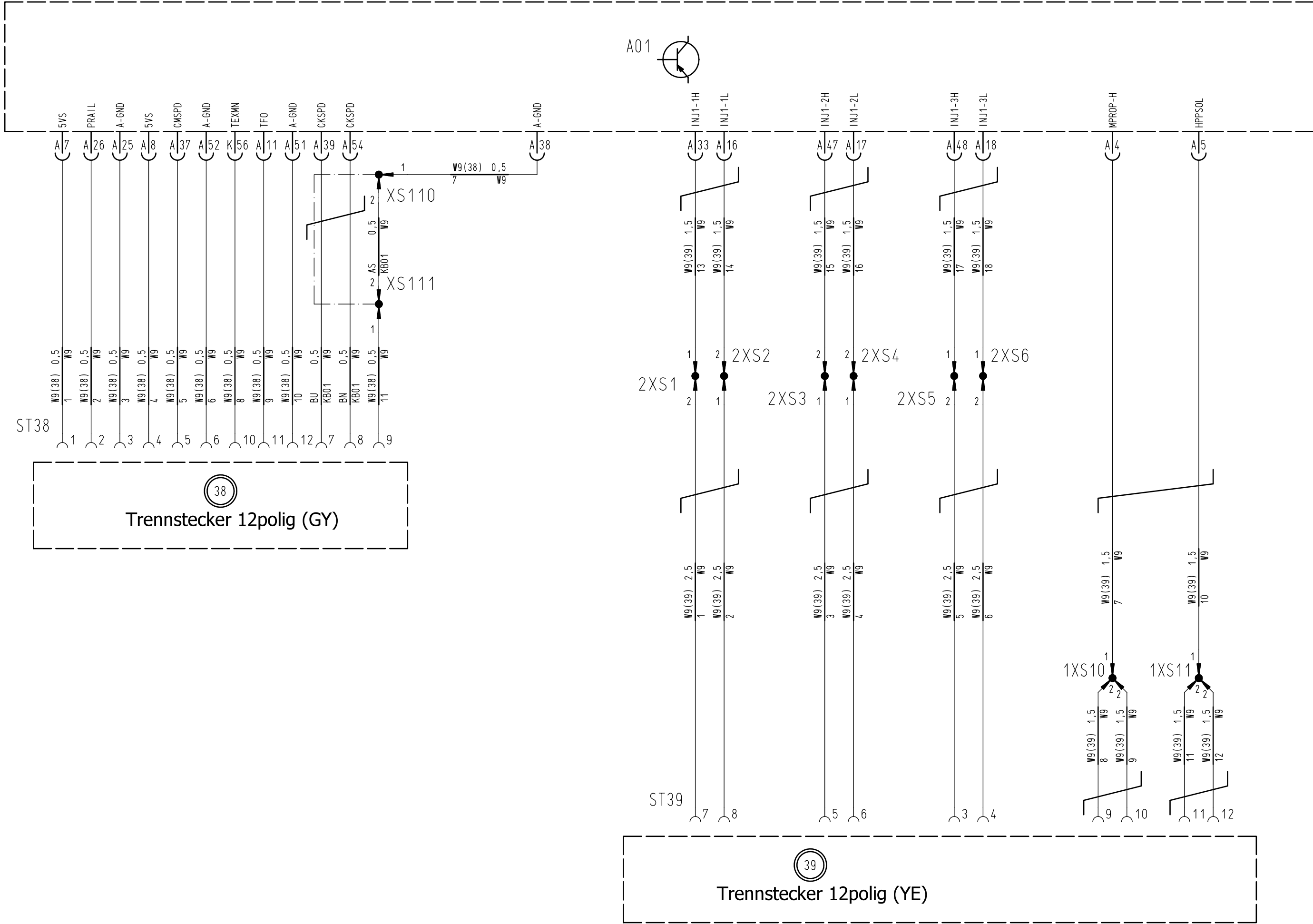
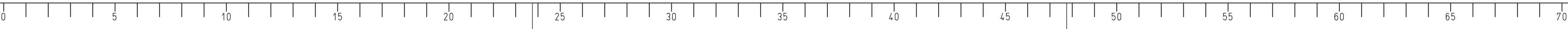
- A01 Motorsteuergerät ECU
engine controller ECU
- F18. Sicherung 50A Vorsicherung 30
fuse 50A pre-fuse 30
- F42 Sicherung 60A
fuse 60A
- F43 Sicherung 80A
fuse 80A
- K01 Relais Anlasser
relay starter
- K02 Relais Vorglühen
relay preheating
- K05 Relais Versorgung 75
relay supply 75
- M01 Anlasser
starter
- R10 Vorglühkerze
glow plug
- R11 Vorglühkerze
glow plug
- R12 Vorglühkerze
glow plug
- ST5 Anschlussstecker 6pol. (W9)
connector 6 pole (W9)
- ST7 Anschlussstecker 2pol. (W9)
connector 2 pole (W9)
- ST8 Anschlussstecker 2pol. (W9)
connector 2 pole (W9)
- ST30 Anschlussstecker 1pol. (W9)
connector 1 pole (W9)
- ST36 Steckverbinder 8pol. . (W9<-->Motor KB)
connector 8 pole (W9<-->motor wh)
- ST37 Steckverbinder 12pol. . (W9<-->Motor KB)
connector 12 pole (W9<-->motor wh)
- V05 Diode
diode
- X32. Steckverbinder 12pol. (W1<->W9)
connector 12 pole (W1<->W9)
- X82 Steckverbinder 2 pol. (W9<->W1)
connector 2 pole (W9<->W1)
- 1XS08 USSP (W9)
ussp (W9)
- 1XS09 USSP (W9)
ussp (W9)

siehe 91041764 Schaltplan Yanmar Motor Harness B



0	Integrated acc.	4000-34	20.01.20	DK	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362	
					Drawn by	21.08.	DK					
					Verified			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)			

Hako
Hako GmbH
D-23840 Bad Oldesloe



Legende

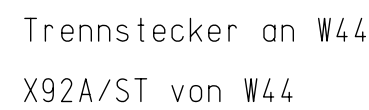
- A01 Motorsteuergerät ECU
engine controller ECU
- ST38 Steckverbinder 12pol. . (W9<-->Motor KB)
connector 12 pole (W9<-->motor wh)
- ST39 Steckverbinder 12pol. . (W9<-->Motor KB)
connector 12 pole (W9<-->motor wh)
- 1XS10 USSP (W9)
ussp (W9)
- 1XS11 USSP (W9)
ussp (W9)
- 2XS1 USSP (W9)
ussp (W9)
- 2XS2 USSP (W9)
ussp (W9)
- 2XS3 USSP (W9)
ussp (W9)
- 2XS4 USSP (W9)
ussp (W9)
- 2XS5 USSP (W9)
ussp (W9)
- 2XS6 USSP (W9)
ussp (W9)
- XS110 USSP (W9)
ussp (W9)
- XS111 USSP (W9)
ussp (W9)

siehe 91041764 Schaltplan Yanmar Motor Harness B



A2	No.	Number appears	Change No.	Date	Name	2019	Date	Name	CM650	Name	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
						Drawn by	21.08.	DK						Replacem. for	
						Verified									
						Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	KAB1 472	Type 1470	Dep. DS	No. of Sh. 38	Sheet 31



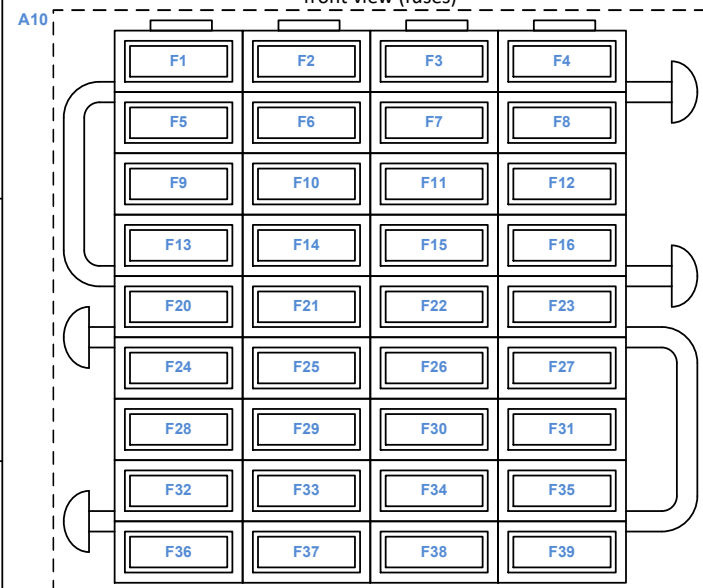


A21	Gateway gateway
R14	Widerstand 120R resistor 120Ohm (CAN external)
X91A	Steckverbinder 8pol. (W5<->W79 connector 8 pole (W5<->W79)
X92D	Steckverbinder 6pol. (W79<->W4 connector 6 pole (W79<->W44)
XS128	USSP (W79) ussp (W79)
XS129	USSP (W79) ussp (W79)
XS130	USSP (W79) ussp (W79)
XS131	Stossverbinder (W79) butt joint (W79)
XS132	Stossverbinder (W79) butt joint (W79)

Seitenkonsole rechts
side console right

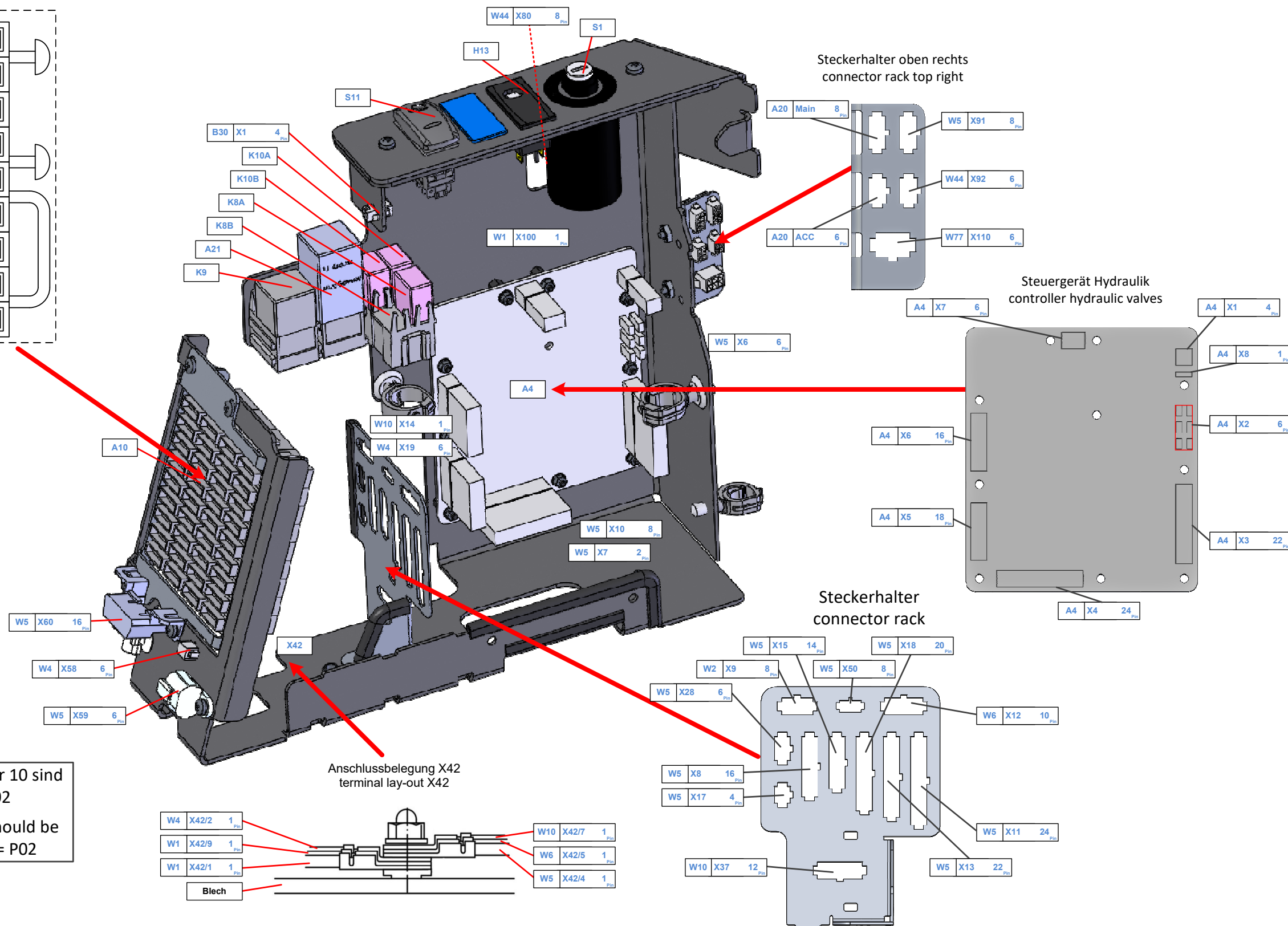
Sicherungskasten
fuse box

Sicht von vorne (Sicherungsseite)
front view (fuses)



F1	20A	F2	10A	F3	n.a.	F4	10A
F5	5A	F6	15A	F7	15A	F8	15A
F9	10A	F10	15A	F11	15A	F12	15A
F13	10A	F14	15A	F15	7,5A	F16	7,5A
F20	7,5A	F21	10A	F22	5A	F23	15A
F24	5A	F25	10A	F26	15A	F27	15A
F28	10A	F29	5A	F30	n.a.	F31	5A
F32	n.a.	F33	n.a.	F34	10A	F35	n.a.
F36	5A	F37	7,5A	F38	10A	F39	15A

F30, F32, F33 und F35 für SOW



Alle Betriebsmittelkennzeichen unter 10 sind wie folgt zu deuten, Beispiel: P2 = P02

all equipment indicators below 10 should be interpreted as follows, example: P2 = P02

Freigabevermerk:	A2	0	Integrated acc.	4000-34	20.01.2020	DK / LK		Date	Name	CM650	Name Schaltplan circuit diagram	 Hako GmbH D-23848 Bad Oldesloe	Drawing Number 91039362			
							Drawn	12.01.2020	LK							
							Verified									
		No	Number appears	Change No.	Date	Name	Standard			Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	Engineering Base 6.8.2	Type 1470	Dept.DS	No of Sheets 38	Sheet 33

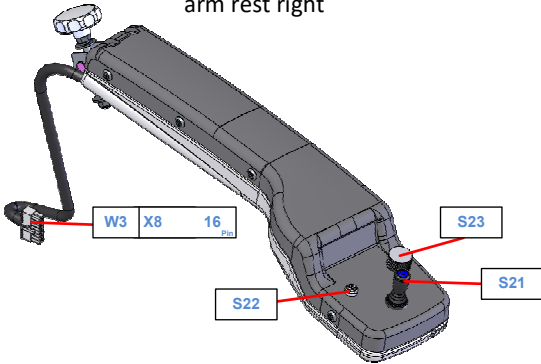
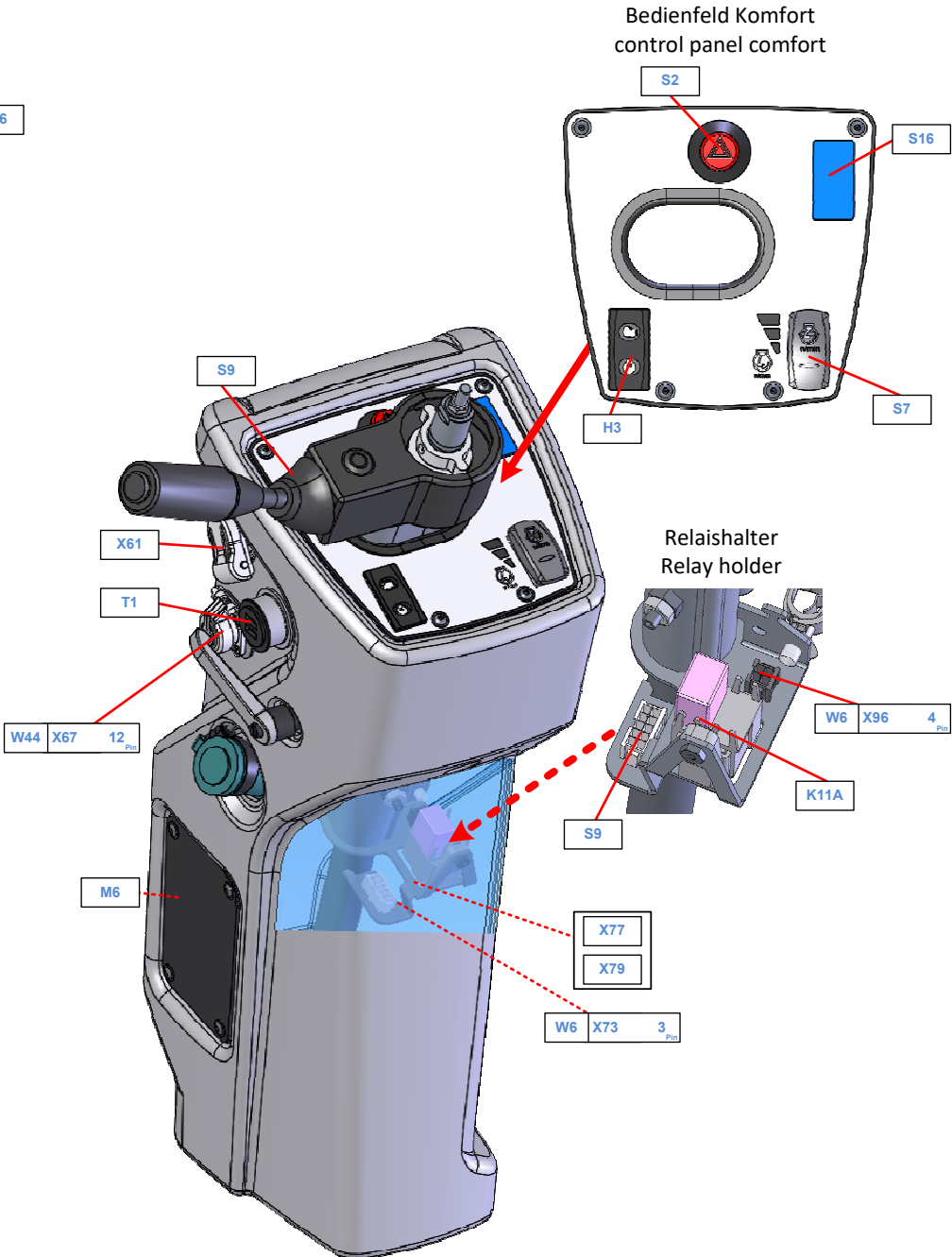
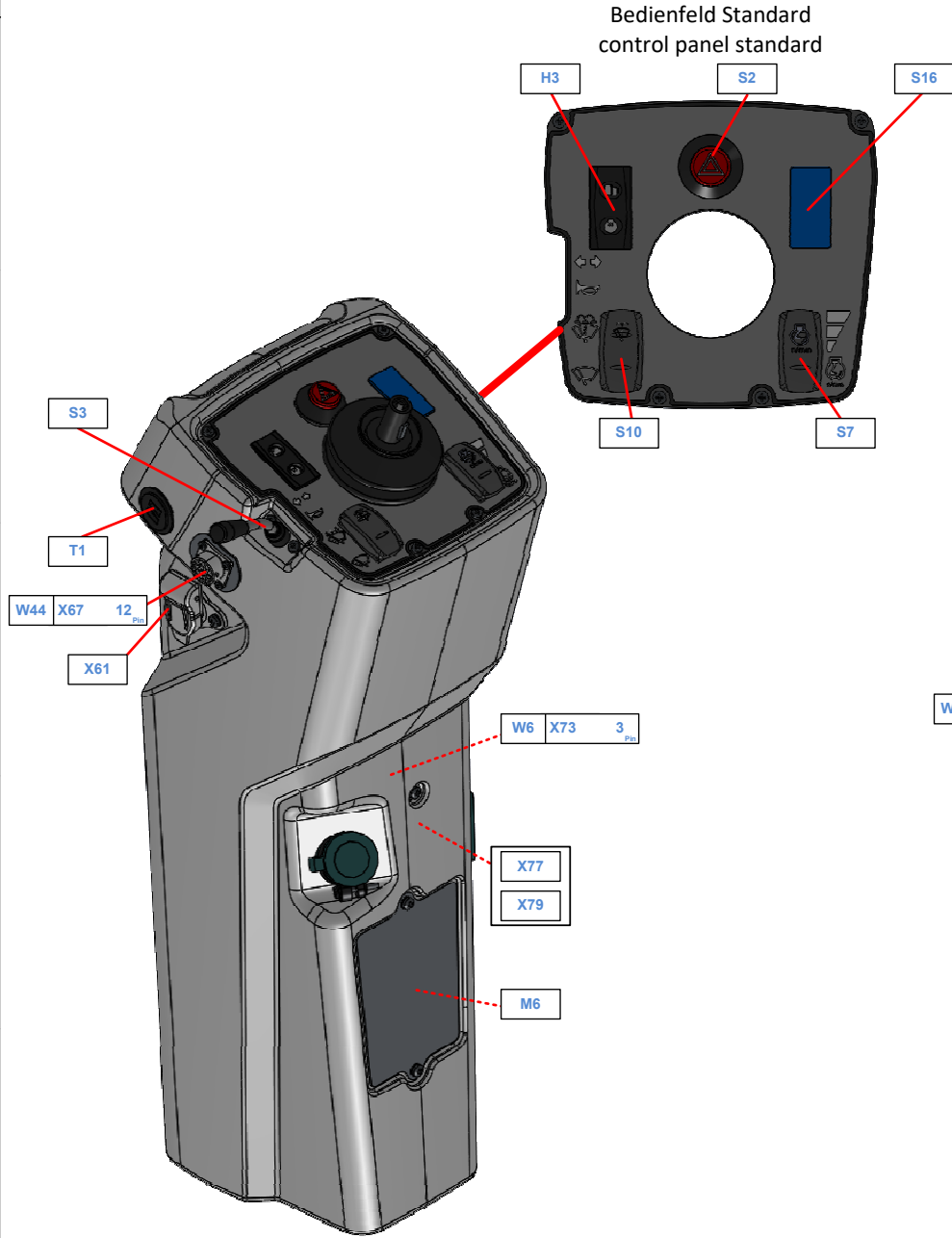
Lenksäule Standard
steering columns standard

Lenksäule Komfort
steering columns comfort

Bedienfeld Standard
control panel standard

Bedienfeld Komfort
control panel comfort

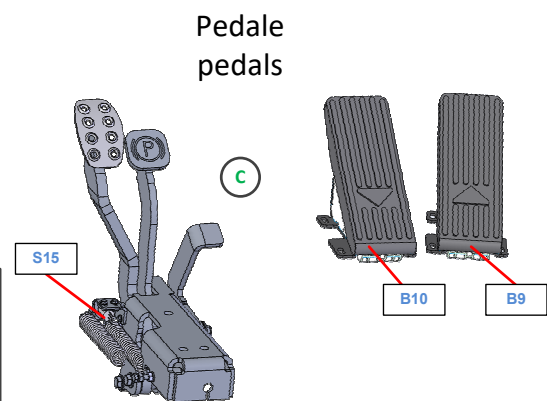
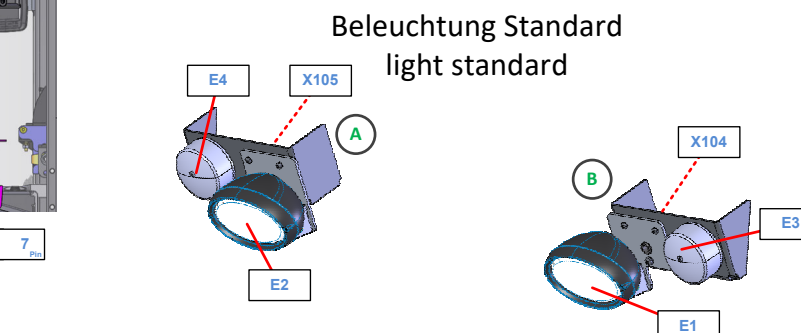
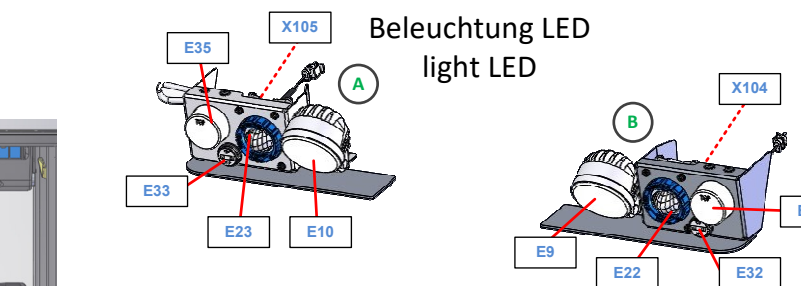
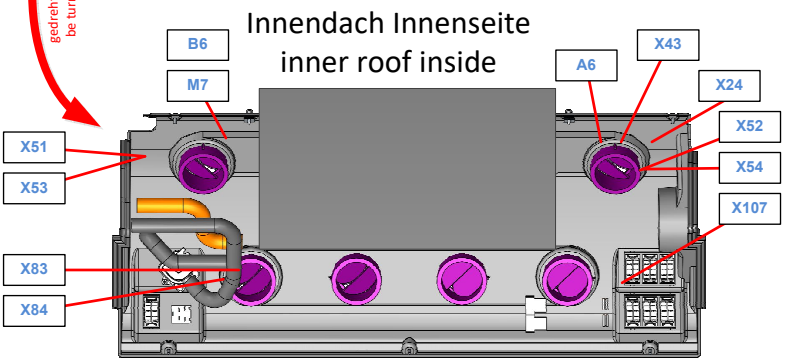
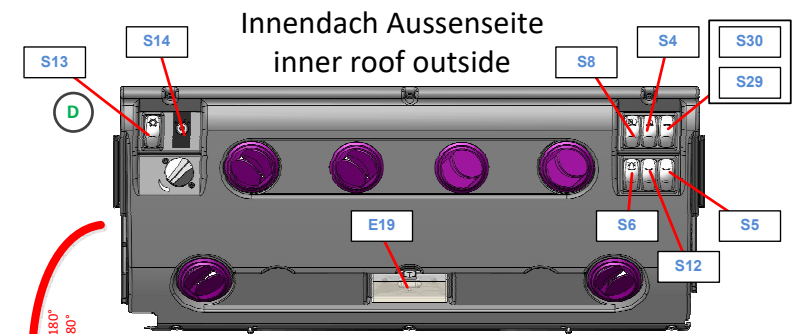
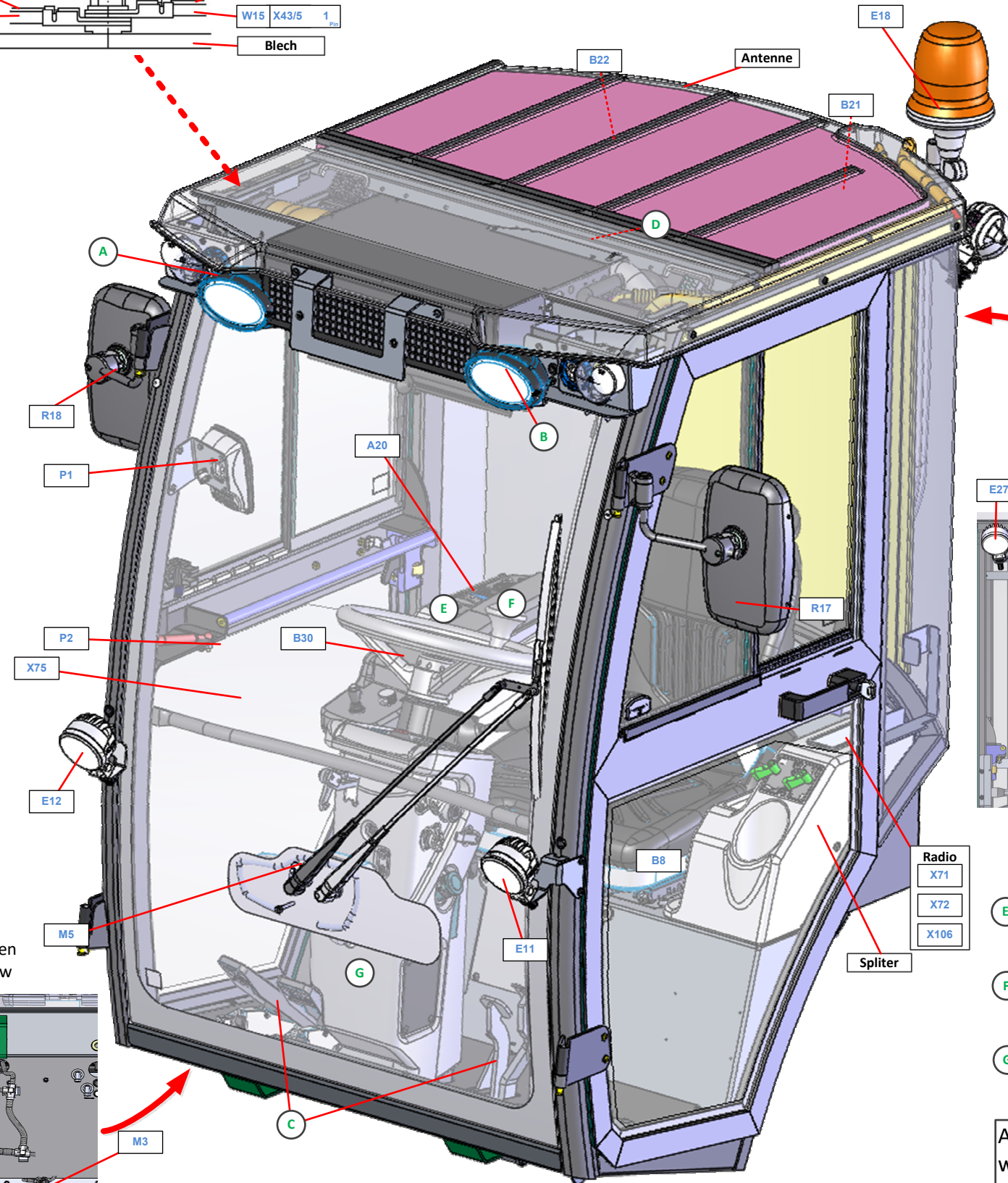
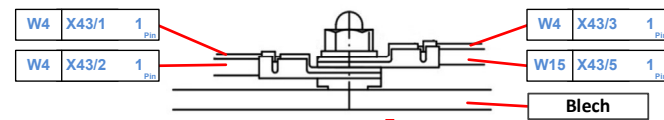
Armlehne rechts
arm rest right



Alle Betriebsmittelkennzeichen unter 10 sind
wie folgt zu deuten, Beispiel: P2 = P02
all equipment indicators below 10 should be
interpreted as follows, example: P2 = P02

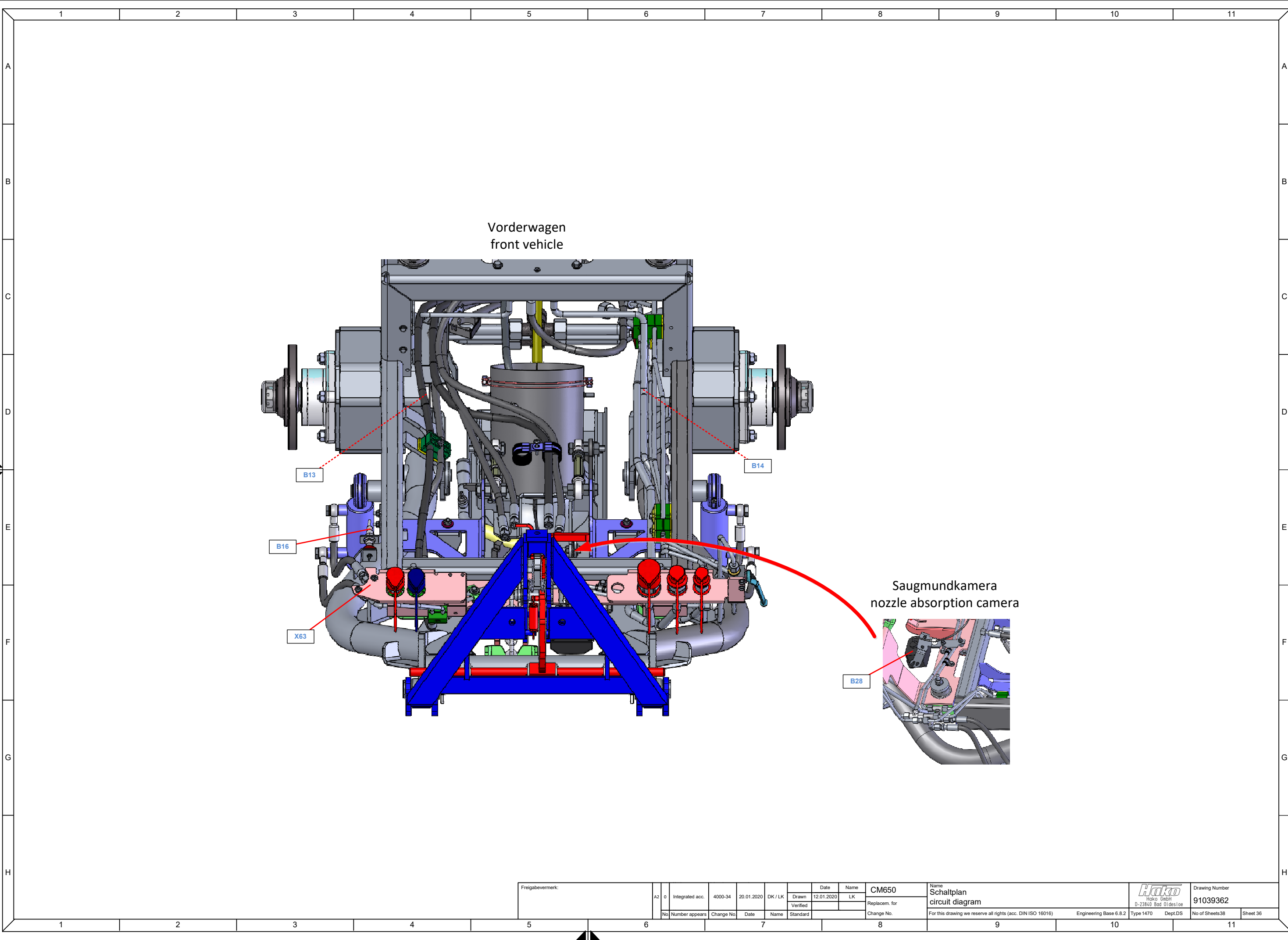
Kabine komplett Cabin complete

Anschlussbelegung X43
terminal lay-out X43



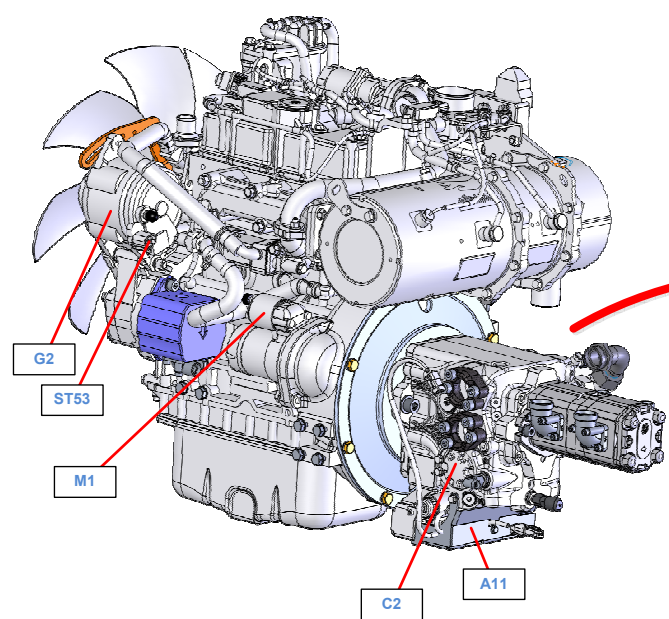
- (E) Siehe: Seitenkonsole rechts
show: side console right
- (F) Siehe: Armlehne
show: arm rest
- (G) Siehe: Lenksäule
show: steering columns

Alle Betriebsmittelkennzeichen unter 10 sind
wie folgt zu deuten, Beispiel: P2 = P02
all equipment indicators below 10 should be
interpreted as follows, example: P2 = P02

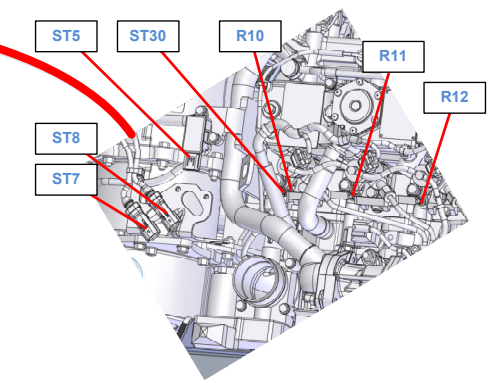
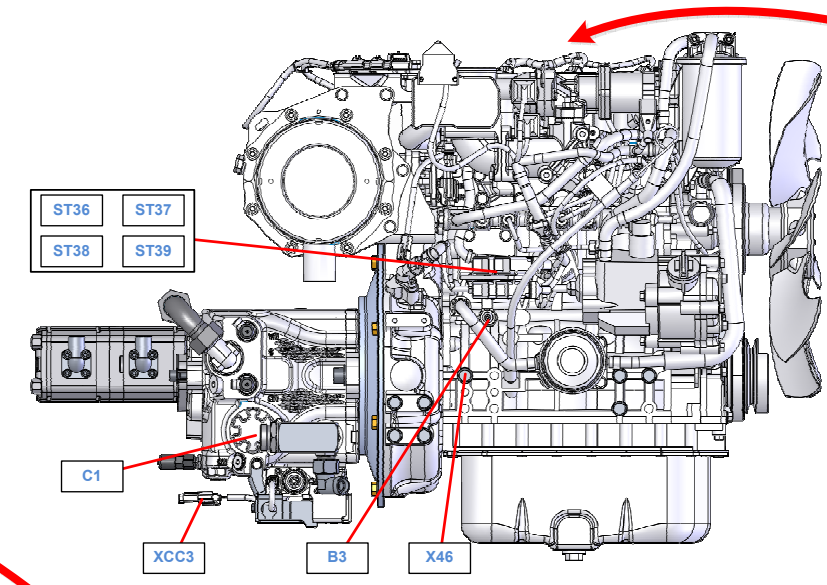
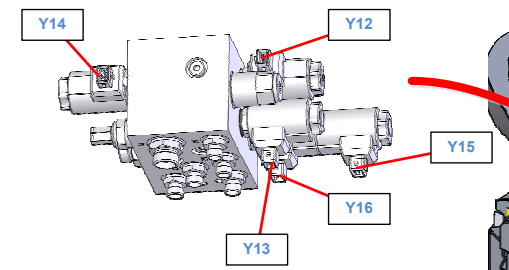


Freigabevermerk:	A2	0	Integrated acc.	4000-34	20.01.2020	DK / LK		Date	Name	CM650	Name Schaltplan circuit diagram	 Hako GmbH D-23840 Bad Oldesloe	Drawing Number 91039362			
							Drawn	12.01.2020	LK							
							Verified									
							Replacem. for									
	No	Number appears	Change No.	Date	Name	Standard	Change No.			For this drawing we reserve all rights (acc. DIN ISO 16016)		Engineering Base 6.8.2	Type 1470	Dept.DS	No of Sheets38	Sheet 36

Hinterwagen
rear vehicle

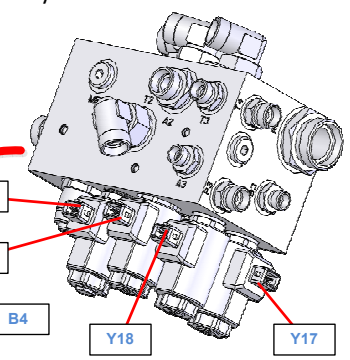
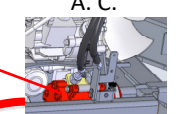


Hydraulik Steuerblock Gebläse, Besenantrieb & Behälter
hydraulic control block fan, brush power unit & container

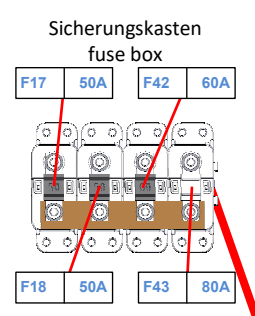
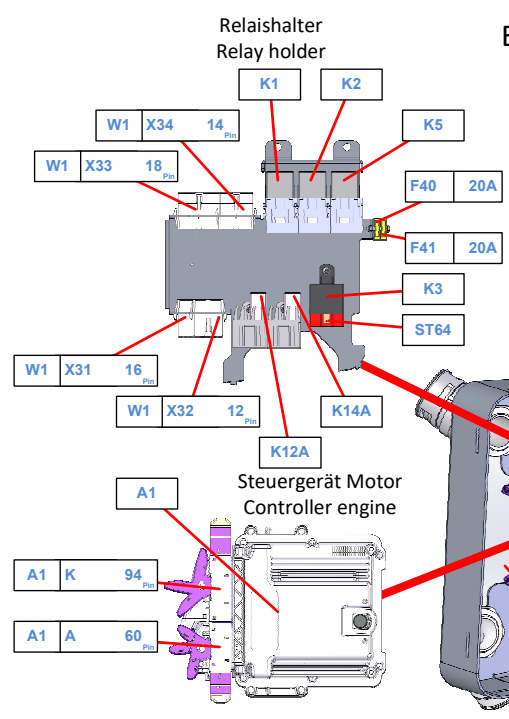


Hydraulik Steuerblockvorderwagen
hydraulic control block front vehicle

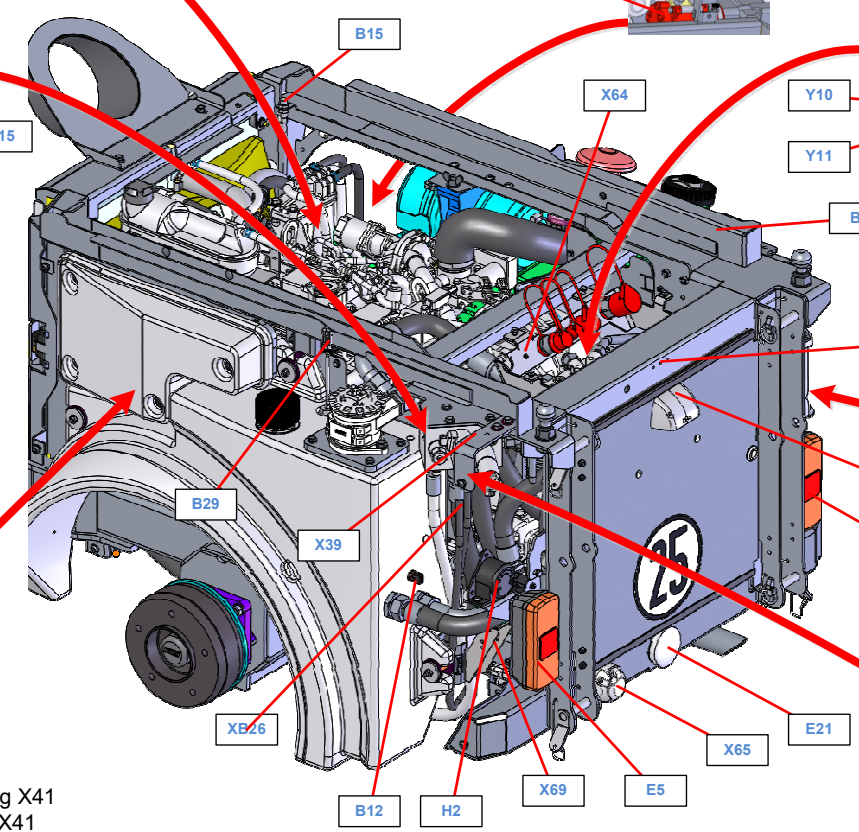
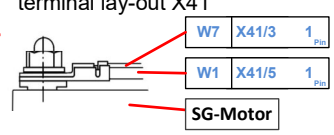
Klimakompressor
A. C.



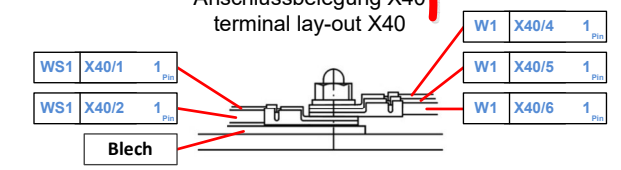
E-Kasten
E-Box



Anschlussbelegung X41
terminal lay-out X41



Anschlussbelegung X40
terminal lay-out X40



Alle Betriebsmittelkennzeichen unter 10 sind wie folgt zu deuten, Beispiel: P2 = P02
all equipment indicators below 10 should be interpreted as follows, example: P2 = P02

Freigabevermerk:										A2	0	Integrated acc.	4000-34	20.01.2020	DK / LK	<table><tr><td></td><td>Date</td><td>Name</td></tr><tr><td>Drawn</td><td>12.01.2020</td><td>LK</td></tr><tr><td>Verified</td><td></td><td></td></tr><tr><td>Standard</td><td></td><td></td></tr></table>		Date	Name	Drawn	12.01.2020	LK	Verified			Standard			CM650	<table><tr><td>Name</td><td>Schaltplan</td></tr><tr><td></td><td>circuit diagram</td></tr><tr><td>Replacem. for</td><td></td></tr><tr><td>Change No.</td><td></td></tr></table>	Name	Schaltplan		circuit diagram	Replacem. for		Change No.		 Hako GmbH D-23840 Bad Oldesloe	Drawing Number	91039362	
	Date	Name																																								
Drawn	12.01.2020	LK																																								
Verified																																										
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										No	Number appears	Change No.	Date	Name	Standard		Change No.	For this drawing we reserve all rights (acc. DIN ISO 16016)	Engineering Base 6.8.2	Type 1470	Dept.DS	No of Sheets38	Sheet 37																			

