




**BOMAG**  
FAYAT GROUP

Bomag GmbH  
Industriegebiet Hellerwald  
D-56154 Boppard

**Wiring illustration  
Verkabelungsdarstellung**

	thick lines dicke Linien	wires $\geq 4\text{mm}^2$ Kabel $\geq 4\text{mm}^2$
	thin lines dünne Linien	wires $\leq 2,5\text{mm}^2$ Kabel $\leq 2,5\text{mm}^2$



0	1	2	3	4	5	6	7	8	9					
Created Erstellt	<b>M. Vogt</b> 13.12.2017	<b>BC 473-573 -4</b>	 <b>BOMAG</b> FAYAT GROUP	Cover sheet Deckblatt					Function Funktion	= =	Page Blatt	1	from von	80
Checked Geprüft	<b>A. Kröber</b> 13.12.2017				Higher-level function Anlage	=			514					
									Mounting location Einbauort	+	EPE / 000 / 00			

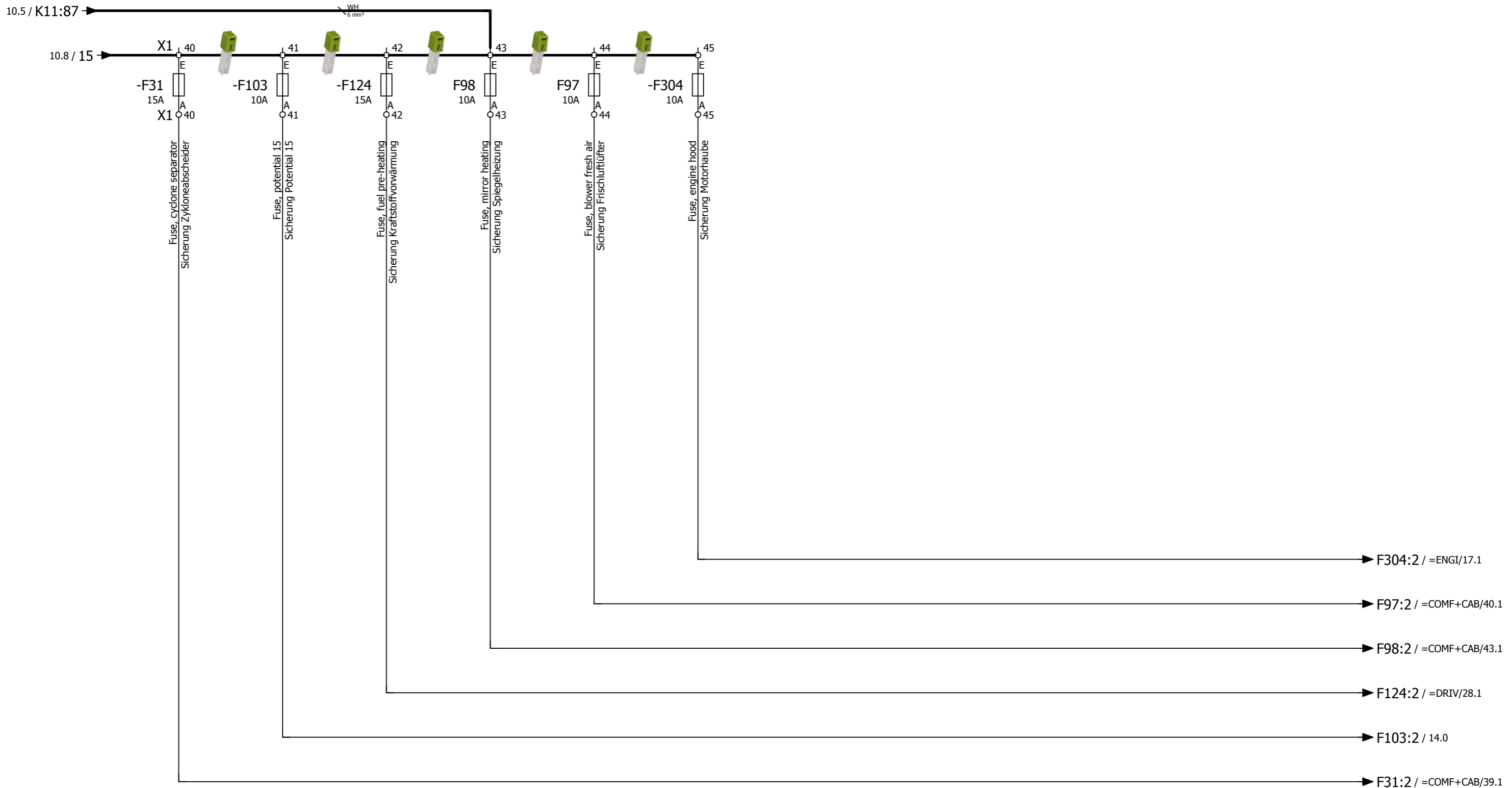
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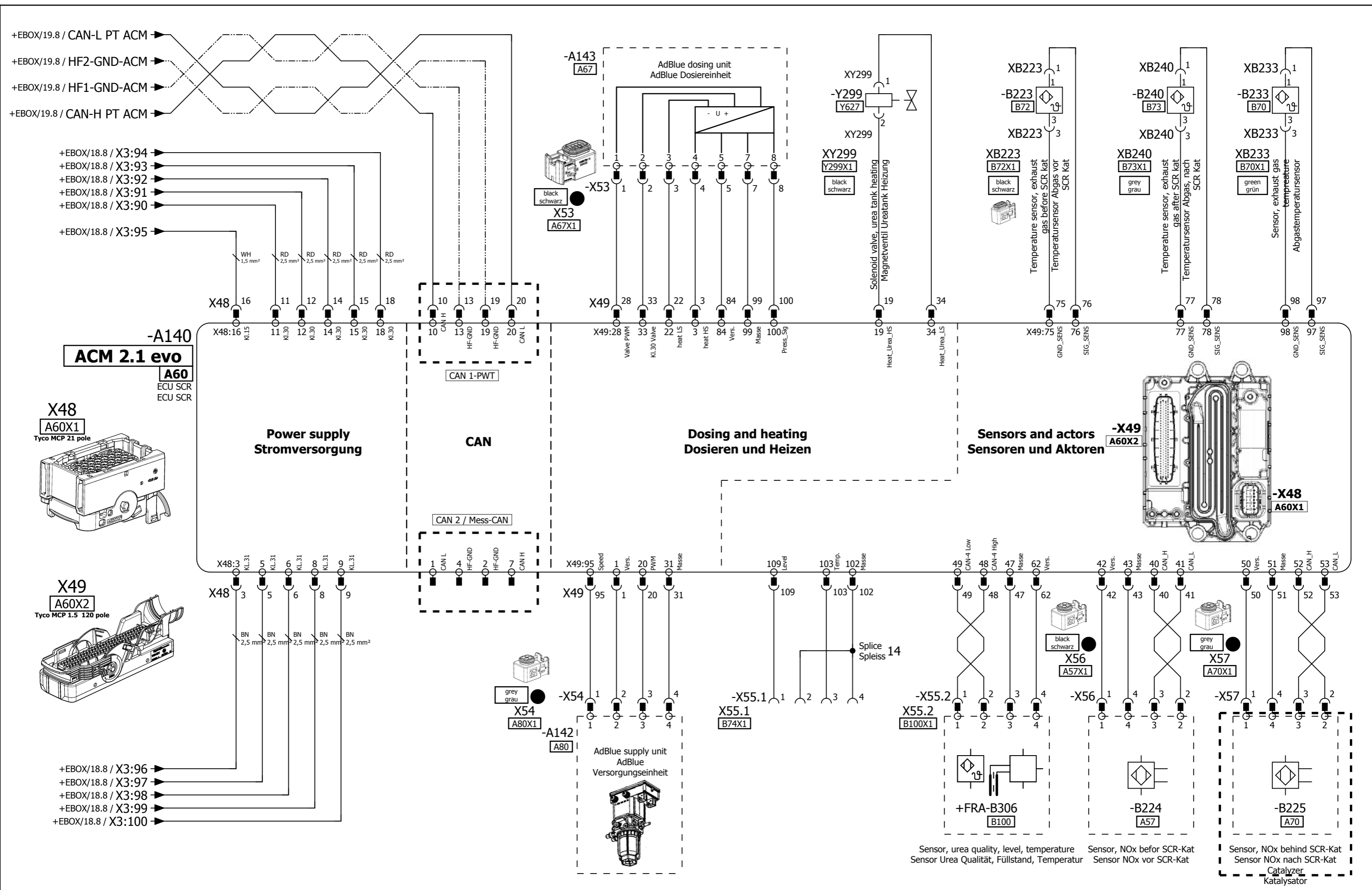


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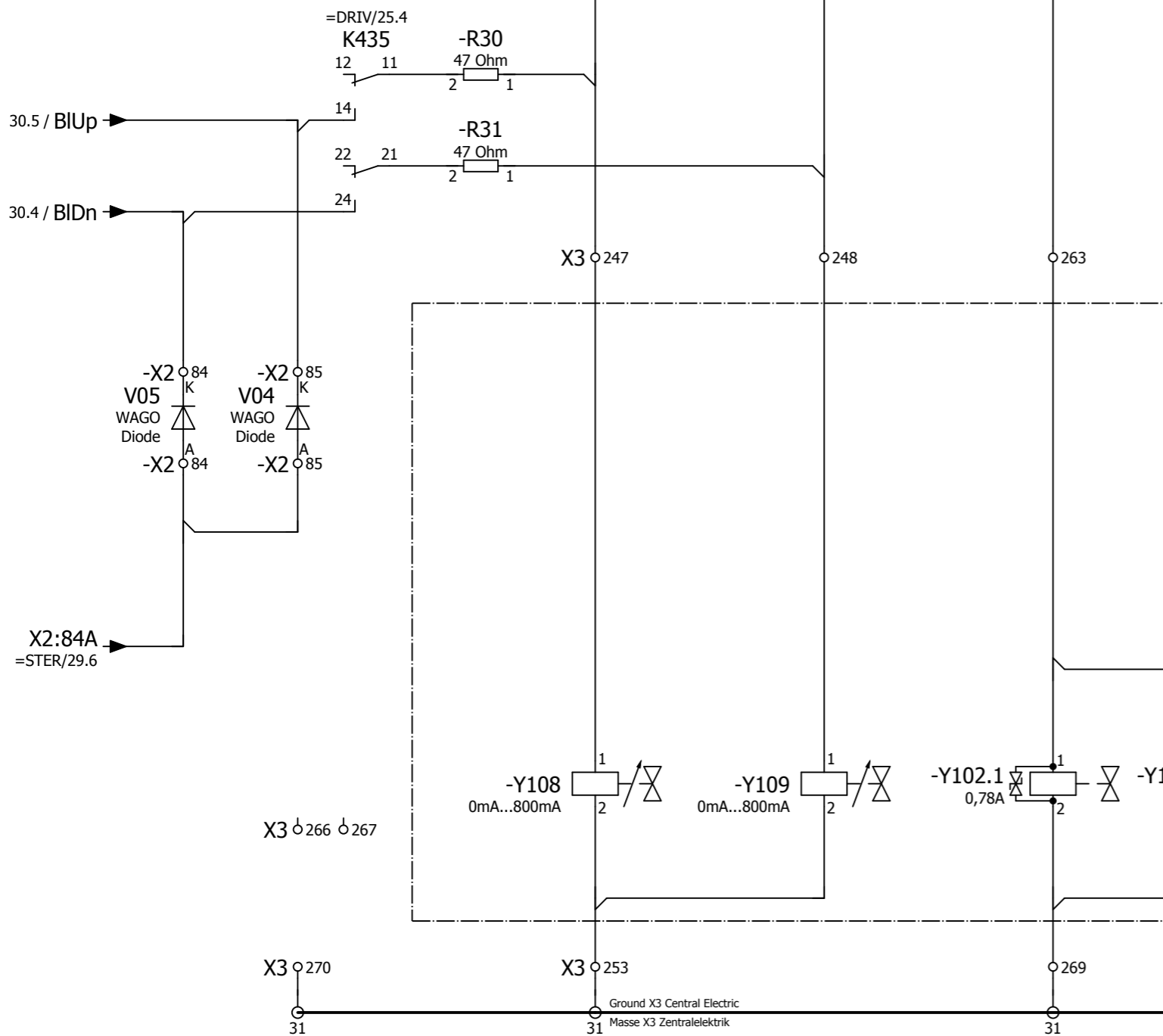


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Created Erstellt	<b>M. Vogt</b> 13.12.2017			Fuse protection potential 15 Absicherung Potential 15					Function Funktion	= = BC	Page Blatt	11	from von	80
Checked Geprüft	<b>A. Kröber</b> 13.12.2017			BC 473-573 -4					Higher-level function Anlage	= SUPL	514			
									Mounting location Einbauort	+ EBOX	EPE / 000 / 00			



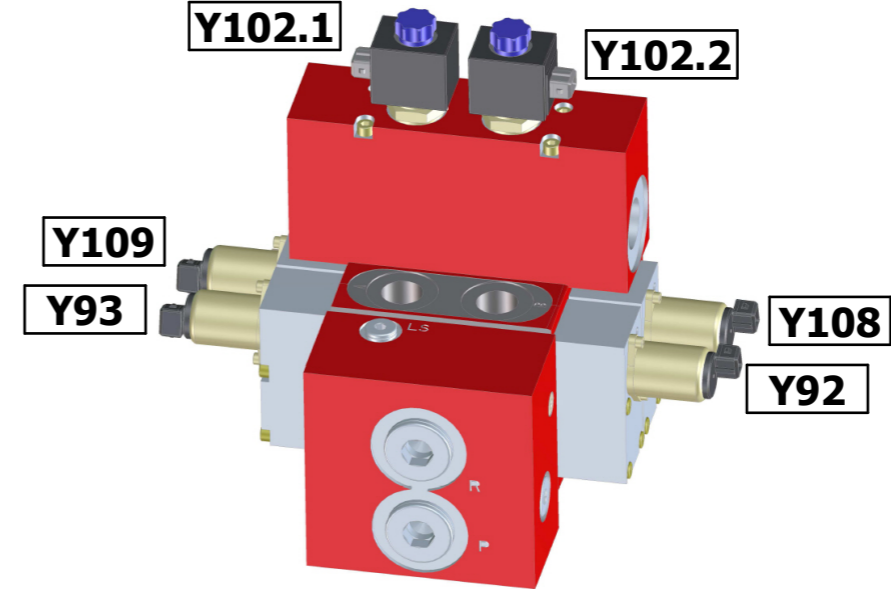


Valve lift blade / shovel Ventil Schild / Schaufel heben	Valve lower blade / shovel Ventil Schild / Schaufel senken	Valve floating position blade / Shovel Ventil Schwimmstellung Schild / Schaufel
PWM_7	PWM_6	DO_7
A34	A34	A34
OUT14 / 4A curr.-measur.	OUT13 / 4A curr.-measur.	OUT8 / 2,5A curr.-feedb.



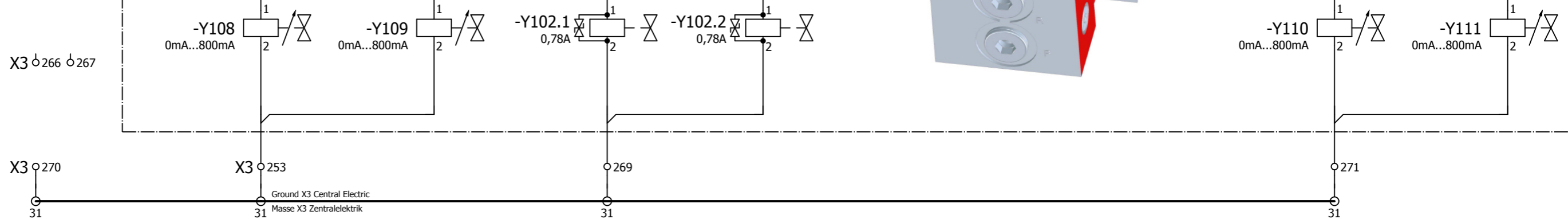
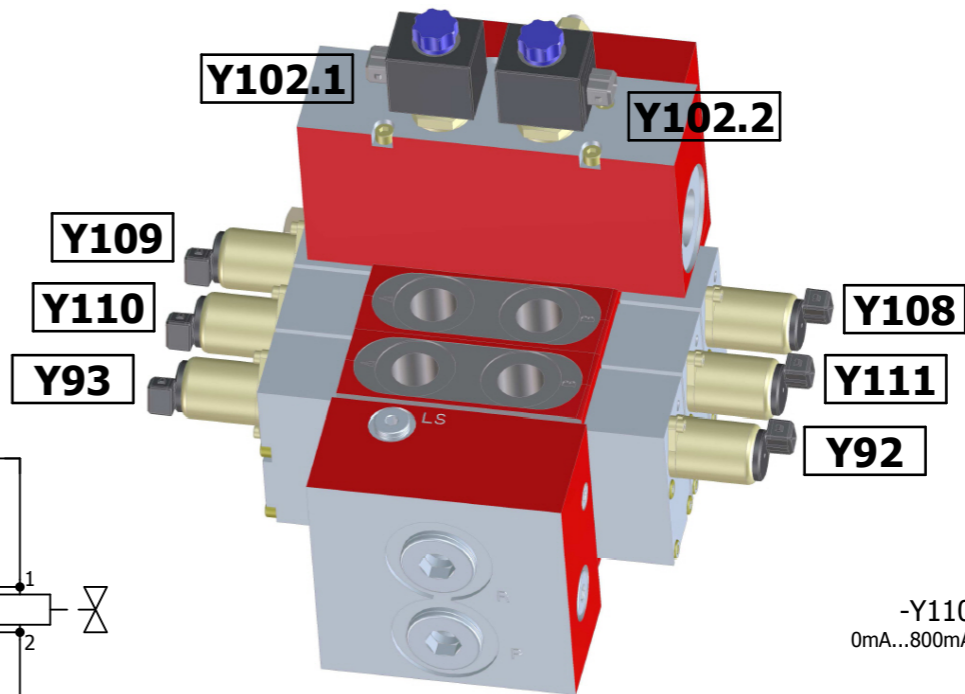
+FRFR

### BC 473-573 RB / EB



Solenoid valve, open shovel Magnetventil Schaufel öffnen +FRFR-Y110:1	Solenoid valve, close shovel Magnetventil Schaufel Schließen +FRFR-Y111:1
PWM OUT 2 A70	PWM OUT 1 A70
OUT2 / 4A curr.-measur.	OUT1 / 4A curr.-measur.

### BC 473 RS / EB dozer blade tilt



Solenoid valve, lifting shovel  
Magnetventil Schaufel Heben

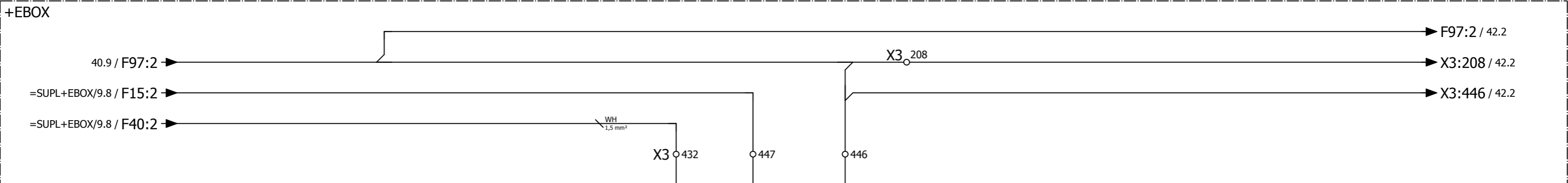
Solenoid valve, let down shovel  
Magnetventil Schaufel Senken

Solenoid valve, floating position  
Magnetventil Schwimmstellung

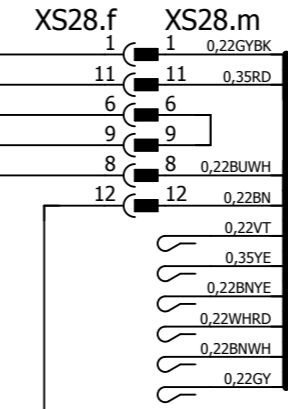
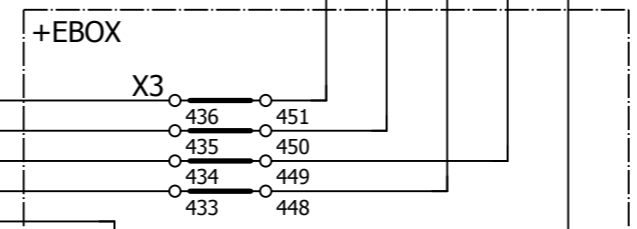
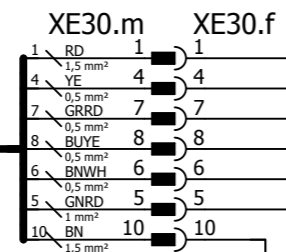
Solenoid valve, floating position  
Magnetventil Schwimmstellung

Solenoid valve, open shovel  
Magnetventil Schaufel öffnen

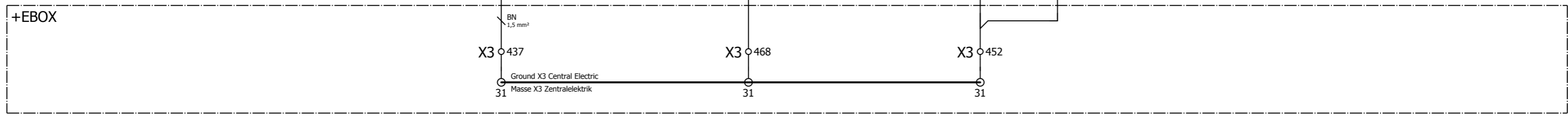
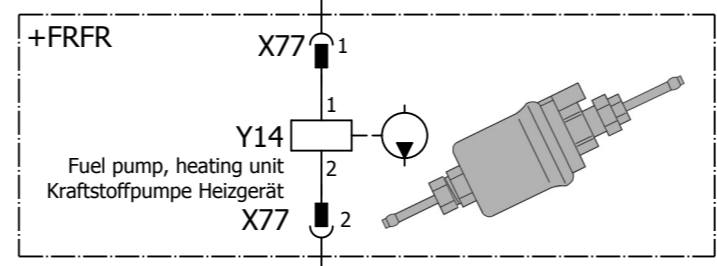
Solenoid valve, close shovel  
Magnetventil Schaufel Schließen



Power consumption Energiebedarf [W]	Start Start	Low niedrig	Medium Medium	High Hoch	POWER
<100	8	16	30	40	



-S28  
Timer  
Schaltuhr



# Device tag list

## Betriebsmittelliste

Device tag BMK	Page Path Blatt Pfad	Mounting location Einbauort	Higher-level function Anlage	Function text	Funktionstext	characteristics Techn.-Kenngrößen
R1	43 7	+SEAT		Resistor	Widerstand	22Ω / 2W
R03	23 7	+FRFR		Sender, level gauge	Geber Tankanzeige	95 Ω
R04	23 6	+REFR		Sensor, hydraulic oil temperature	Sensor Hydrauliköltemperatur	120°C
R06	43 8	+SEAT		Heating, operators seat	Heizung Fahrersitz	
R10	8 7	+EBOX		Parallel resistor	Parallelwiderstand	220 Ohm
R20	15 4	+EBOX		Terminating resistor CAN	Abschlußwiderstand CAN	120 Ohm
R21	15 4	+EBOX		- " -	- " -	120 Ohm
R22	15 6	+EBOX		- " -	- " -	120 Ohm
R23	15 6	+EBOX		- " -	- " -	120 Ohm
R24	19 7	+EBOX		- " -	- " -	120 Ohm
R26	42 6	+EBOX		Resistor	Widerstand	22 Ω
R27	42 6	+EBOX		- " -	- " -	10 Ω
R28	29 7	+EBOX		- " -	- " -	47 Ohm
R29	29 7	+EBOX		- " -	- " -	47 Ohm
R30	31 2	+EBOX		- " -	- " -	47 Ohm
R31	31 2	+EBOX		- " -	- " -	47 Ohm
R77	43 2	+CAB		Heating resistor, outside mirror	Heizung Aussenspiegel	30W
R80	37 7	+CAB		Rear window heater	Heizung Heckscheibe	
R125	43 8	+SEAT		Heating, operators seat	Heizung Fahrersitz	
R126	37 8	+CAB		Rear window heater	Heizung Heckscheibe	
R127	43 2	+CAB		Heating resistor, outside mirror	Heizung Aussenspiegel	30W
S00	8 8	+CAB		switch ignition	Schalter Motorstart	
S01	12 1	+DASH		Switch, emergency off	Schalter NOT AUS	
S02	26 2	+DASH		switch speed range selector	Schalter Fahrstufenwahl	
S03	29 5	+SEAT		Push button, warning horn	Taster Signalhorn	
S04	25 4	+DASH		Switch, brake	Schalter Bremse	
S06	43 7	+SEAT		Switch, seat contact	Sitzkontaktschalter	
S25	43 4	+DASH		Switch, seat heating	Schalter Sitzheizung	
S27	28 1	+DASH		Pushbutton, central lubrication system	Taster Zentralschmieranlage	
S28	41 7	+CAB		Timer	Schaltuhr	
S29	43 6	+SEAT		Switch, suspension seat	Schalter Luftfedersitz	
S30	8 2	+BAT		Disconnect switch, battery	Batterietrennschalter	250A
S31	26 5	+SEAT		Switch, travel direction	Schalter Fahrtrichtung	
S44	42 6	+DASH		Switch, fresh air	Schalter Frischluft	
S64	30 9	+SEAT		Switch, float position	Schalter Schwimmstellung	
S70	30 4	+SEAT		Blade/Shovel-Joystick	Schild/Schaufel-Joystick	
S71	29 2	+SEAT		Switch, steering	Schalter Lenkung	

# Pin overview

## Pin Übersicht

<b>A70</b>		<b>DIOS Module</b>							<b>DIOS Modul</b>	
Plug Stecker	Pin Kontakt	Page Blatt	Path Pfad	Description Beschreibung	Signal	Signal	Signal	Signal	Signal	
X36	8	17	6	OUT4 / 4A curr.-measur.	Solenoid valve, reversible fan			Magnetventil Unkehrlüfter		
X36	15	17	7	Digital IN 3	Pushbutton, Override SCR Limiter			Taster Überbrückung SCR Limiter		
X36	1	16	2	CAN high	CAN high			CAN high		
X36	2	16	3	CAN low	CAN low			CAN low		
X36	3	14	5	+UE / 9..32V	Power Supply (Electronic)			Spannungsvers. (Elektronik)		
X36	4	14	6	Adress	Address			Adresse		
X36	5	31	9	OUT1 / 4A curr.-measur.	Solenoid valve, close shovel			Magnetventil Schaufel Schließen		
X36	6	31	8	OUT2 / 4A curr.-measur.	Solenoid valve, open shovel			Magnetventil Schaufel öffnen		
X36	7	17	5	OUT3 / 4A curr.-measur.	Solenoid valve, rpm engine-blower			Magnetventil Drehzahl Motor-Lüfter		
X36	9	14	6	+UB / 9..32V	Power Supply (Outputs)			Spannungsvers. (Ausgänge)		
X36	10	14	7	+UB / 9..32V	- " -			- " -		
X36	11	14	5	GND	Ground Electronic			Masse Elektronik		
X36	12			Adress						
X36	13			Digital IN 1						
X36	14	17	6	Digital IN 2	Pushbutton, reversible fan			Taster Umkehrlüfter		
X36	16			Digital IN 4						

# Plug overview Steckerübersicht

Plug Stecker	-XK11	Mounting location Einbauort	+EBOX
Function text Funktionstext	Plug, relay potential 30 on 15 Stecker Relais Potential 30 on 15		
Plug type Steckertyp	FASTIN-FASTON TAB housing 2 way		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ	8	9	
2 ʌ	8	9	

Plug Stecker	-XK37	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K37 Relaissockel K37		
Plug type Steckertyp	socket minirelay 9 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
7 ʌ			
8 ʌ			
9 ʌ			

Plug Stecker	-XK52	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K52 Relaissockel K52		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
5 ʌ			

Plug Stecker	-XS00.1	Mounting location Einbauort	+CAB
Function text Funktionstext	Plug 1 switch ignition Stecker 1 Schalter Motorstart		
Plug type Steckertyp	Central plug ignition switch 4 pole		
Contact Kontakt	Wire harness Kabelbaum	Anzeigen	
	Page Blatt	Path Pfad	
1 ʌ	8	8	
2 ʌ			
3 ʌ			
4 ʌ			

Plug Stecker	-XK13	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K13 Relaissockel K13		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

Plug Stecker	-XK48	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K48 Relaissockel K48		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

Plug Stecker	-XK61	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K61 Relaissockel K61		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

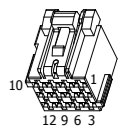
Plug Stecker	-XS00.2	Mounting location Einbauort	+CAB
Function text Funktionstext	Plug 2 switch ignition Stecker 2 Schalter Motorstart		
Plug type Steckertyp	Central plug ignition switch 6 pole		
Contact Kontakt	Wire harness Kabelbaum	Anzeigen	
	Page Blatt	Path Pfad	
5 ʌ	8	8	
6 ʌ			
7 ʌ	8	8	
8 ʌ			
9 ʌ			
10 ʌ			

Plug Stecker	-XK22	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K22 Relaissockel K22		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

Plug Stecker	-XK51	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K51 Relaissockel K51		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

Plug Stecker	-XK62	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K62 Relaissockel K62		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

Plug Stecker	-XS28.f	Mounting location Einbauort	+CAB
Function text Funktionstext	Plug, timer additional heater Stecker Schaltuhr Zusatzheizung		
Plug type Steckertyp	AMP Junior Power Timer 12 pole grey		
Contact Kontakt	Wire harness Kabelbaum		
	Page Blatt	Path Pfad	
1 ʌ	41	6	
2 ʌ	41	5	
3 ʌ			
4 ʌ	41	6	
5 ʌ			
6 ʌ	41	6	
7 ʌ			
8 ʌ	41	6	
9 ʌ	41	6	
10 ʌ	41	5	
11 ʌ	41	6	
12 ʌ	41	6	



Plug Stecker	-XK37	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K37 Relaissockel K37		
Plug type Steckertyp	socket minirelay 9 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			
6 ʌ			

Plug Stecker	-XK52	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K52 Relaissockel K52		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			

Plug Stecker	-XK90	Mounting location Einbauort	+BAT
Function text Funktionstext	Relay socket K90 Relaissockel K90		
Plug type Steckertyp	socket microrelay 5 pole		
Contact Kontakt	Wire harness Kabelbaum	Zentralelektrik	
	Page Blatt	Path Pfad	
1 ʌ			
2 ʌ			
3 ʌ			
4 ʌ			
5 ʌ			

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