



**BOMAG**  
FAYAT GROUP

Bomag GmbH  
Industriegebiet Hellerwald  
D-56154 Boppard

**Wiring illustration  
Verkabelungsdarstellung**

	thick lines dicke Linien	routing on Powerboard Routing auf Powerboard
	thin lines dünne Linien	harness wiring Kabelbäume



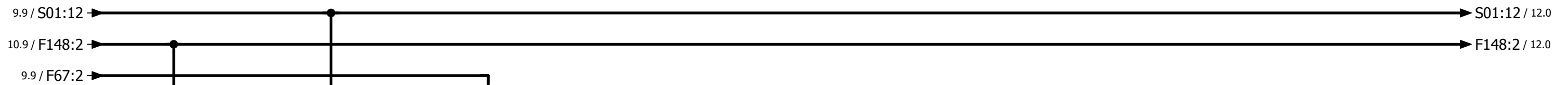
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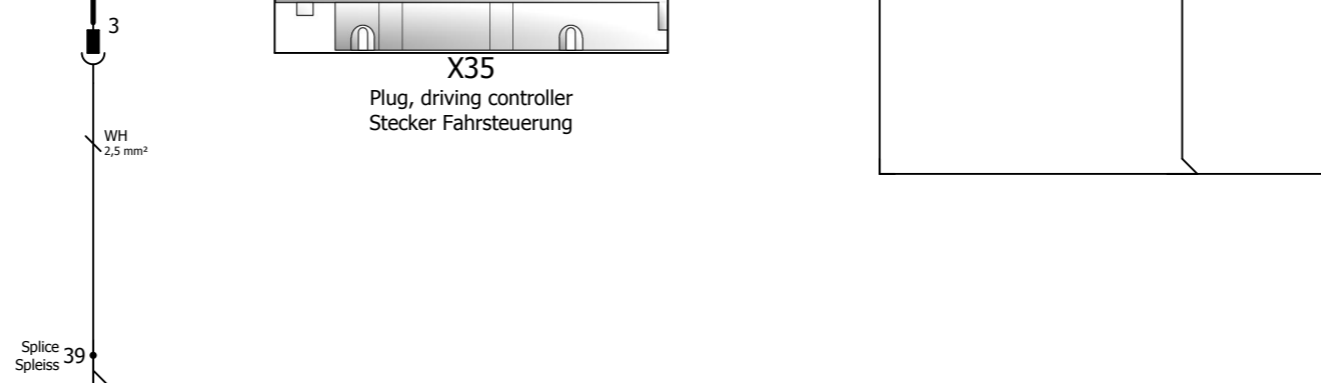
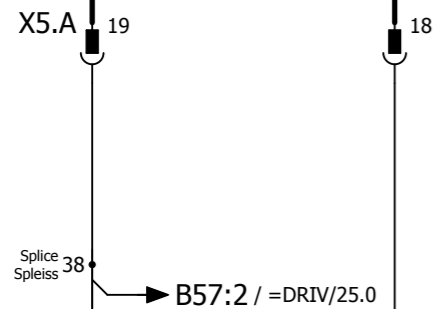
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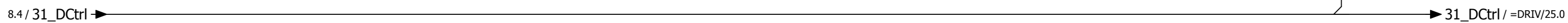


X35  
Plug, driving controller  
Stecker Fahrsteuerung

Ground Electronic Masse Elektronik GND	Ground Electronic Masse Elektronik GND	Ground Electronic Masse Elektronik GND	Ground Electronic Masse Elektronik GND	Ground Electronic Masse Elektronik GND
A34 GND	A34 GND	A34 GND	A34 GND	A34 GND
X35 55	X35 65	X35 66	X35 67	X35 68

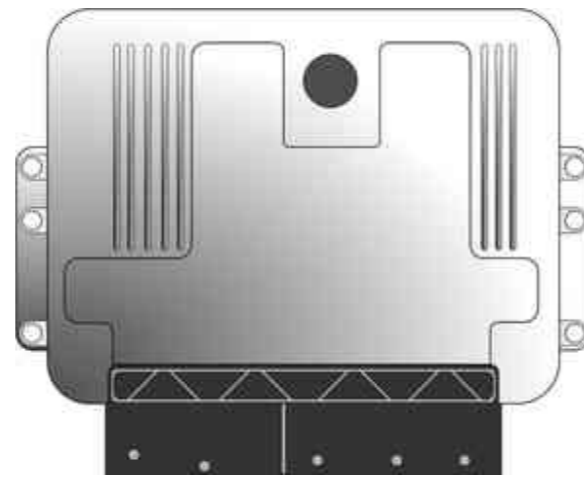


X35 28	X35 54	X35 56	X35 57	X35 58	X35 59	X35 60
+Ignition / 0..32V	+UE / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V
A34	A34	A34	A34	A34	A34	A34
+ Ignition	+UE	+UB	+UB	+UB	+UB	+UB
Ignition Zündung	Power Supply (Electronic) Spannungsvers. (Elektronik)	Power Supply (Outputs) Spannungsvers. (Ausgänge)	Power Supply (Outputs) Spannungsvers. (Ausgänge)	Power Supply (Outputs) Spannungsvers. (Ausgänge)	Power Supply (Outputs) Spannungsvers. (Ausgänge)	Power Supply (Outputs) Spannungsvers. (Ausgänge)

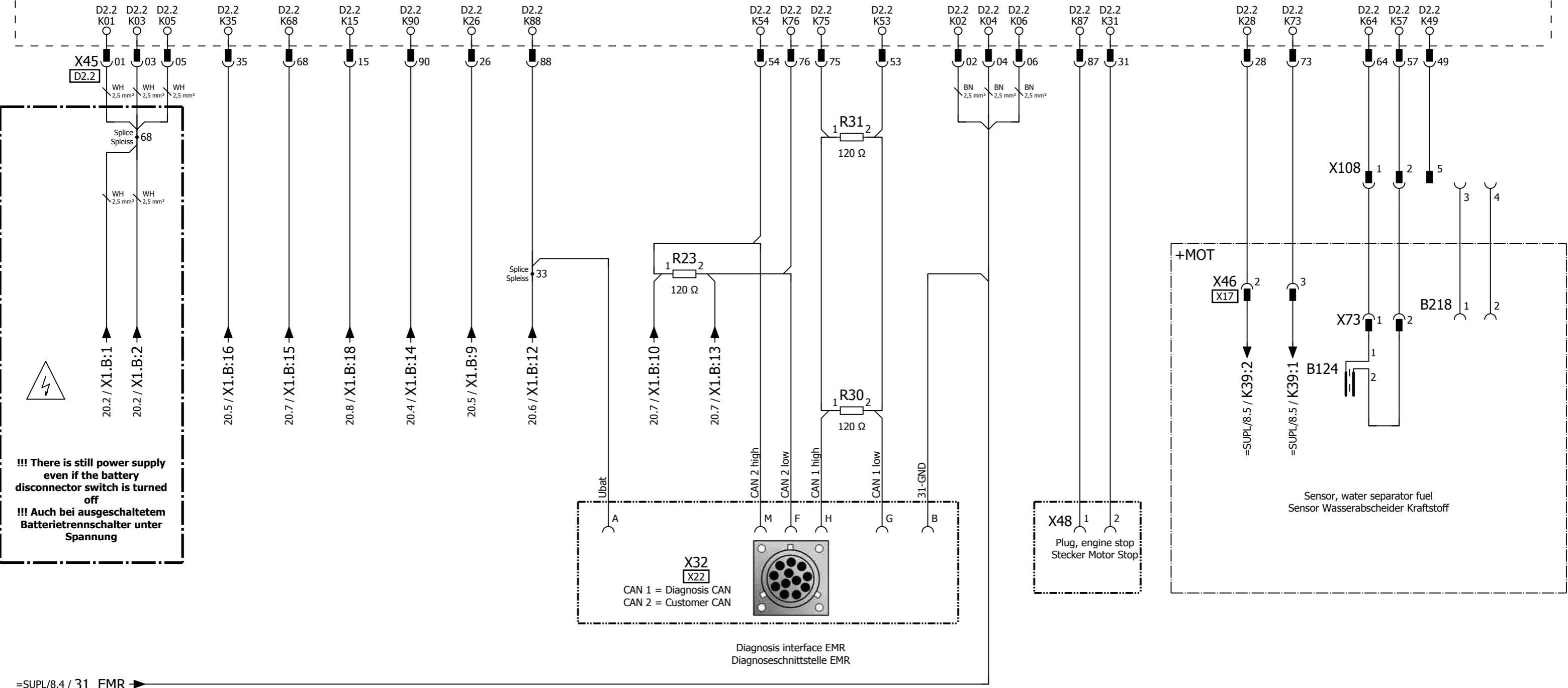


A48.D  
 Engine-controller EMR4 (EDC 17-CV54)  
 Motorsteuergerät EMR4 (EDC 17-CV54)

Harness Engine interface - Engine internal  
 Kabelbaum Motorschnittstelle - Motorintern



Plug, engine-controller motor-part Stecker Motorsteuergerät Motorseite = X44  
 Plug, engine-controller machine-part X45 = Stecker Motorsteuergerät Maschinenseite



!!! There is still power supply even if the battery disconnecter switch is turned off  
 !!! Auch bei ausgeschaltetem Batterietrennschalter unter Spannung

=SUPL/8.4 / 31\_EMR

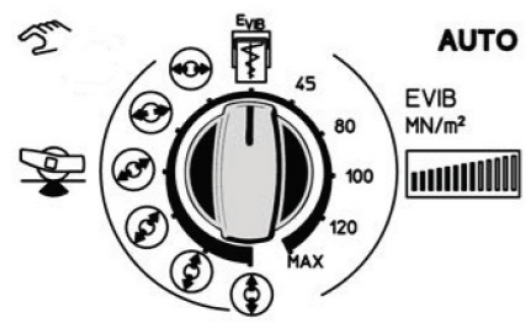
=SUPL/13.9 / FM2

+SEAT

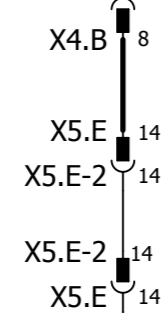
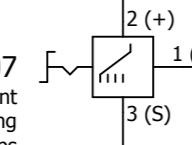
=DRIV/25.9 / 31\_Ar

=DRIV+SEAT/29.2 / 15\_Ar

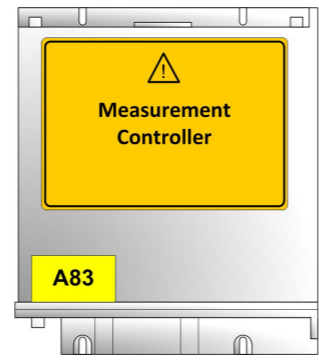
31\_Ar  
=OPT+CAB/43.1



**S107**  
Switch, amplitude adjustment  
Schalter Amplitudenverstellung  
12 steps  
12 Stufen  
4...20mA

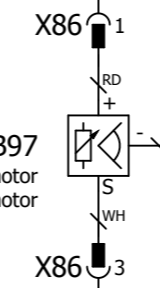
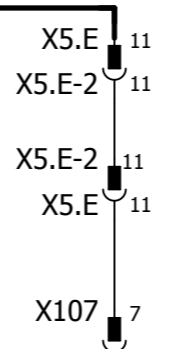


X88 32
AIN8 / 10V 25mA
A83
AIN_8
Switch, amplitude adjustment Schalter Amplitudenverstellung



+DRUM

W1  
12x0,75

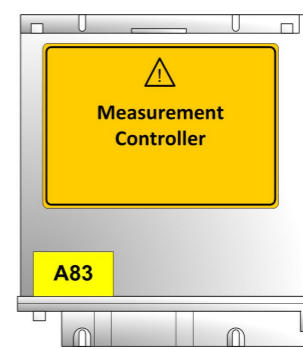


**B97**  
Sensor, adjustable motor  
Sensor Verstellmotor

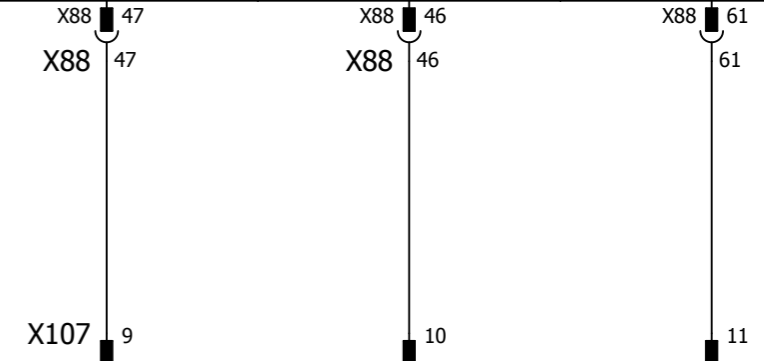
W1  
12x0,75



X88 9
AIN7 / 10V 25mA
A83
AIN_7
Position exciter Erregerposition

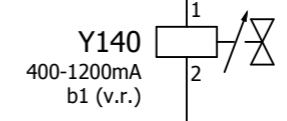


Exciter up Erreger auf	Exciter down Erreger ab	Exciter priority Erreger Priorität
PWM_2 A83	PWM_1 A83	DO_5 A83
OUT2 / 4A curr.-measur.	OUT1 / 4A curr.-measur.	OUT6 / 4A

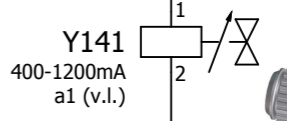


+DRUM

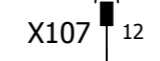
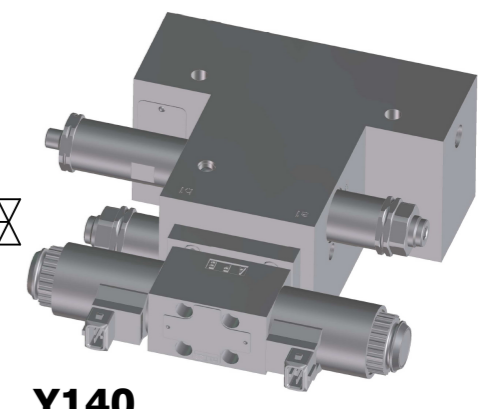
W2  
7x1,0



**Y140**  
400-1200mA  
b1 (v.r.)



**Y141**  
400-1200mA  
a1 (v.l.)

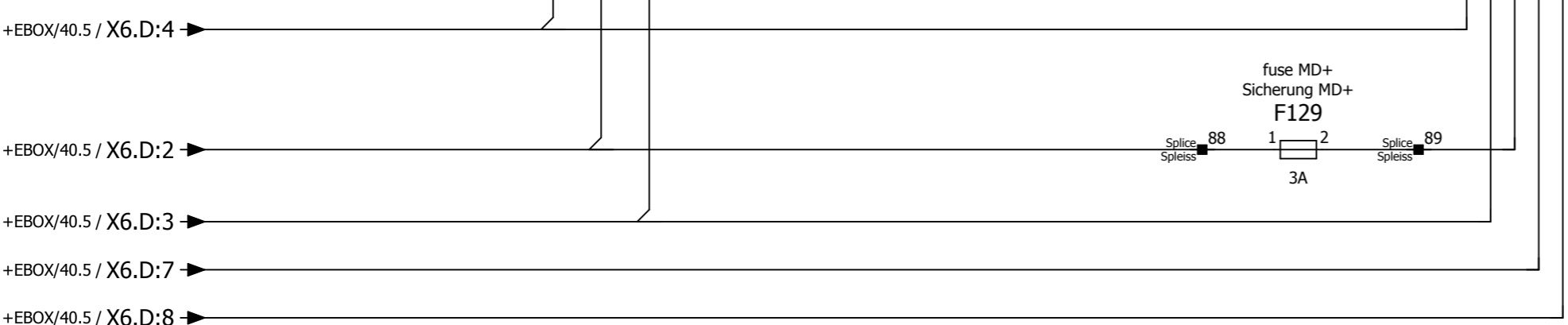
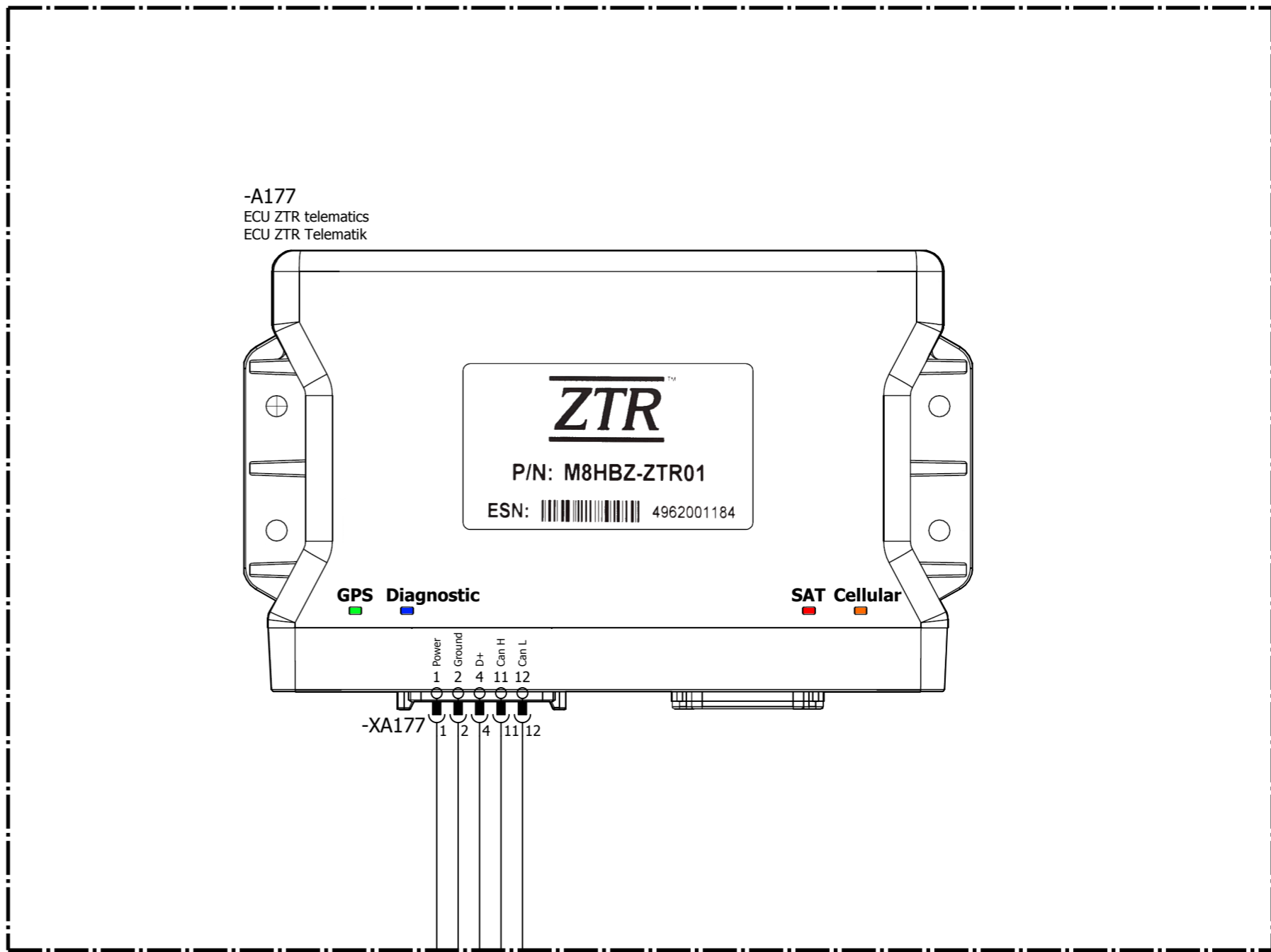
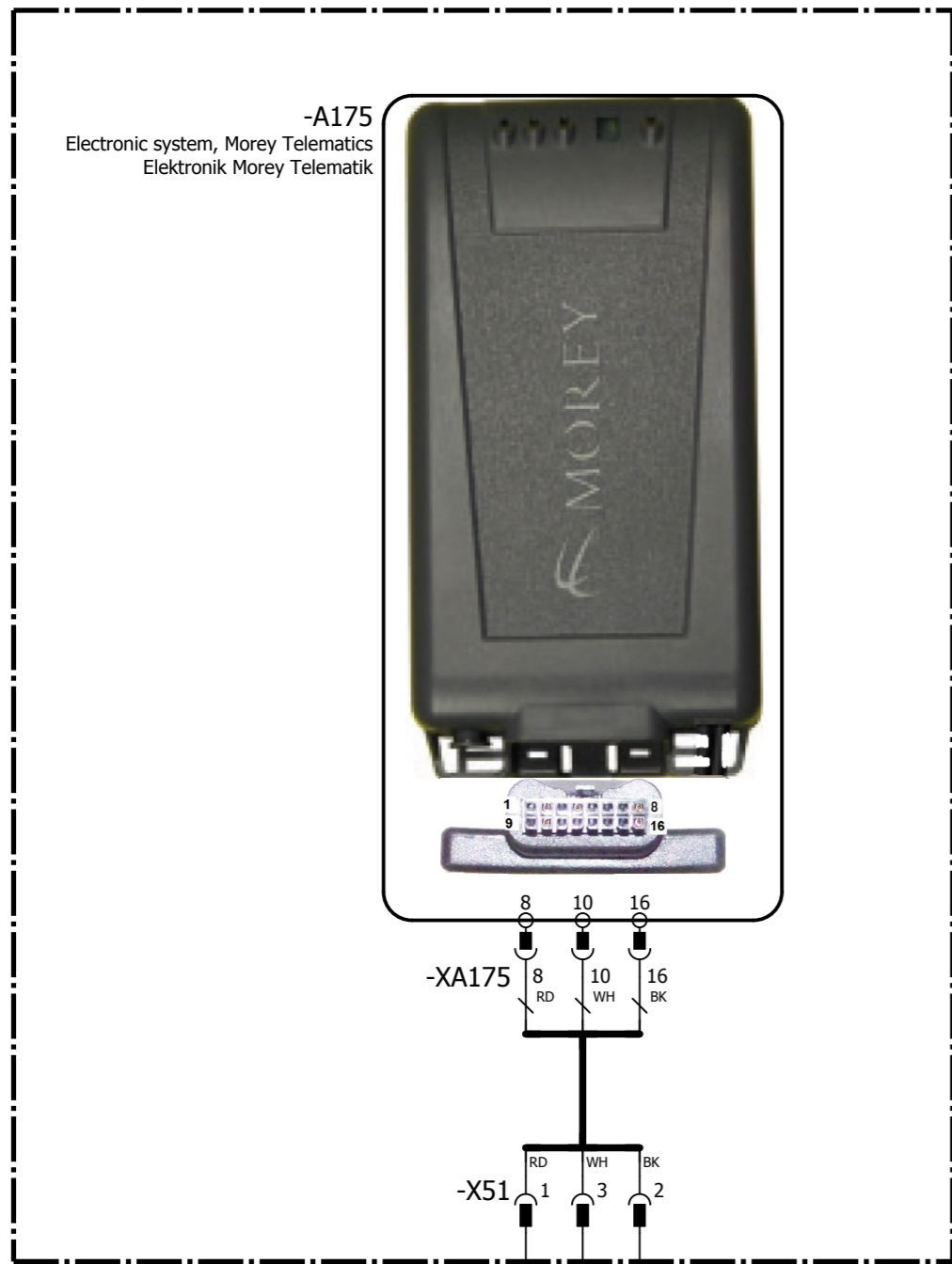


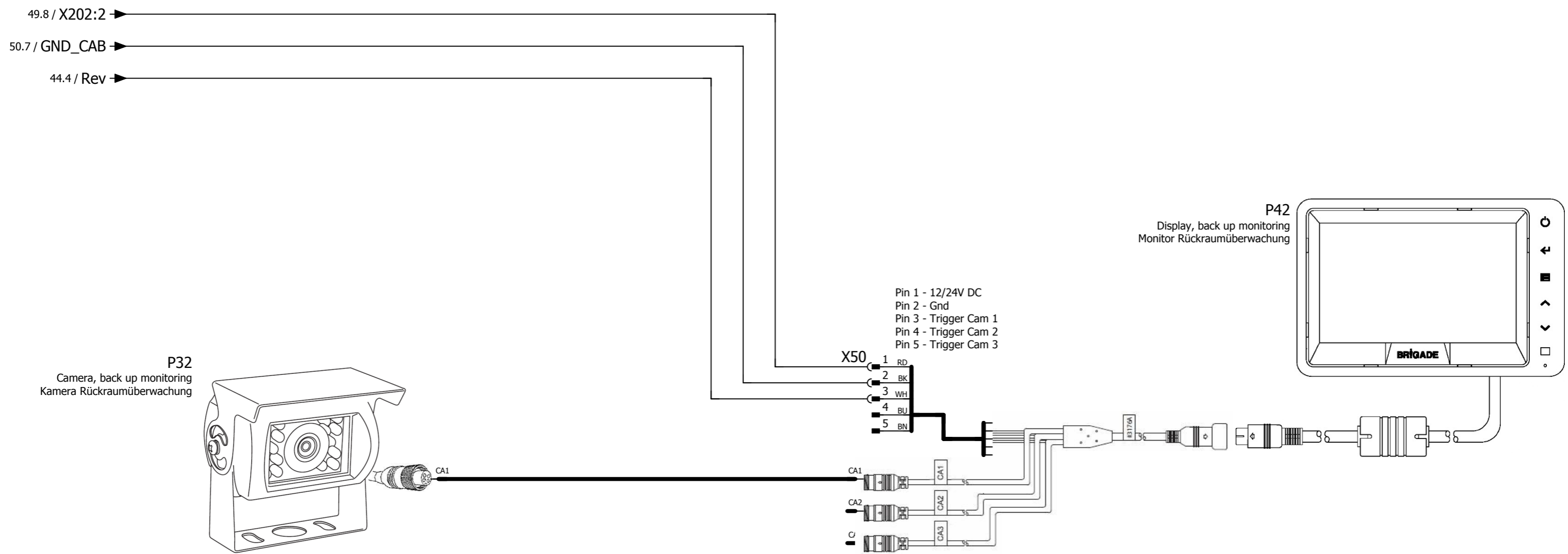
Solenoid valve, exciter up  
Magnetventil Erreger auf

Solenoid valve, exciter down  
Magnetventil Erreger ab

=SUPL/12.9 / 31\_MCtrl

BN  
1,5 mm²





# Pin overview

## Pin Übersicht

A34		Driving Controller Fahrsteuerung				
Plug Stecker	Pin Kontakt	Page Blatt	Path Pfad	Description Beschreibung	Signal	Signal
X35	1	13	2	AGND	AGND	Analogmasse
X35	2	27	5	OUT10 / 2,5A curr.-feedb.	Travel motor axle	Fahrmotor Achse
X35	3	27	8	OUT12 / 2,5A curr.-feedb.	Travel motor drum	Fahrmotor Bandage
X35	4			RxD_1		
X35	5			TxD_1		
X35	6	26	2	AIN1 / 10V 25mA	Pressure sensor, travel pump axle MA	Drucksensor Fahrpumpe Achse MA
X35	7	26	3	AIN3 / 10V 25mA	Pressure sensor, travel pump axle MB	Drucksensor Fahrpumpe Achse MB
X35	8	33	5	AIN5 / 10V 25mA	Sensor, height adjustment plates	Sensor Höhenverstellung Platten
X35	9	24	1	AIN7 / 10V 25mA	D+ Alternator	D+ Generator
X35	10	33	6	DIN18 / 0..32V	Plate pump enable	Freigabe Plattenpumpe
X35	11	32	4	OUT20 / 2,5A curr.-feedb.	Floating position dozer blade	Schwimmstellung Planierschild
X35	12	25	5	DIN2 / 0..32V, DRZ	Speed axle	Geschwindigkeit Achse
X35	13	25	4	DIN4 / 0..32V	Direction axle	Drehrichtung Achse
X35	14	29	8	DIN6 / 0..32V	BTS brake	BTS Bremse
X35	15	25	3	DIN8 / 0..32V	Seat contact	Sitzkontakt
X35	16	25	4	DIN10 / 0..32V, DRZ	Proximity switch, arm rest right	Näherungsinitiator Armlehne rechts
X35	17	25	7	DIN12 / 0..32V	Direction drum	Drehrichtung Bandage
X35	18			DIN14 / 0..32V, DRZ		
X35	19			DIN16 / 0..32V, DRZ		
X35	20	27	3	OUT14 / 4A curr.-measur.	Travel pump drum forward	Fahrpumpe Bandage vorwärts
X35	21	27	4	OUT16 / 4A curr.-measur.	Travel pump drum backward	Fahrpumpe Bandage rückwärts
X35	22	33	7	OUT18 / 4A curr.-measur.	Vibration pump plates	Vibrationspumpe Platten
X35	23	13	2	8.5VEXT	8,5V Sensor Power	8,5V Sensor Spannung
X35	24	28	8	OUT9 / 2,5A curr.-feedb.	Relay, shut off solenoid engine	Relais Hubmagnet Abschaltung Motor
X35	25	28	8	OUT11 / 2,5A curr.-feedb.	Warning horn	Signalhorn
X35	26	15	3	CAN1_L	CAN 1 low	CAN 1 low

# Plug overview

## Steckerübersicht

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X21	+DRUM	Plug, transducer acceleration rear Stecker Beschleunigungsaufnehmer hinten

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	35	3	Deutsch DT 4 pole
2	35	4	
3	35	4	
4	35	3	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X25	+REFR	Plug, access double pump Stecker Anschluß Doppelpumpe

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	26	2	Deutsch DTM 8 pole
2	26	3	
3	26	4	
4	26	4	
5	26	2	
6	27	3	
7	27	3	
8	27	4	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X26	+SEAT	Plug, potentiometer frequency plates Stecker Potentiometer Frequenzverstellung Anbauplatten

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	29	4	AMP Mate ´n´loc 3 pole white
2	29	4	
3	29	4	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X27	+PLA	Plug, quick connect coupling plates Stecker Schnellverschlußkupplung Platten

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	33	5	
2	33	5	
3	33	4	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X28	+REFR	Plug, sensor height adjustment plates Stecker Sensor Höhenverstellung Platten

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	33	5	Deutsch DTM 3 pole
2	33	5	
3	33	5	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X29	+REFR	Plug, access lifting unit plates Stecker Anschluß Hubwerk Platten

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	33	7	Deutsch DTM 6 pole
2	33	6	
3	33	6	
4	33	4	
5	33	6	
6	33	6	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X30	+REFR	Plug, backup alarm buzzer Stecker Rückfahrwarnsummer

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	28	7	Deutsch DT 2 pole
2	28	7	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X35	+EBOX	Plug, driving controller Stecker Fahrsteuerung

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	13	2	AMP 68 pole
2	27	5	
3	27	8	
4			
5			
6	26	2	
7	26	3	
8	33	5	
9	24	1	
10	33	6	
11	32	4	
12	25	5	
13	25	4	
14	29	8	
15	25	3	
16	25	4	
17	25	7	
18			
19			
20	27	3	
21	27	4	
22	33	7	
23	13	2	
24	28	8	
25	28	8	
26	15	3	
27	15	2	
28	11	1	
29	26	4	
30	26	4	
31	33	6	
32	25	2	
33	15	5	
34	30	3	
35	25	6	
36	24	3	
37	24	5	

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