



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



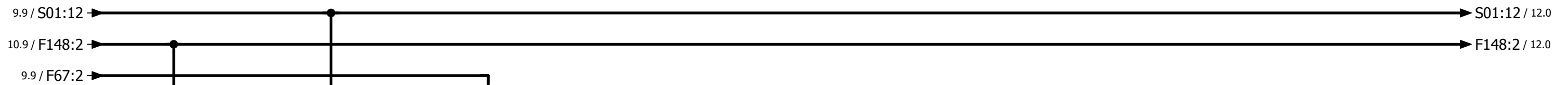
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X35
Plug, driving controller
Stecker Fahrsteuerung

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

X5.A 19

18

3

WH
2,5 mm²

Splice
Splice 38

B57:2 / =DRIV/25.0

Splice
Splice 39

X35 28

X35 54

X35 56

X35 57

X35 58

X35 59

X35 60

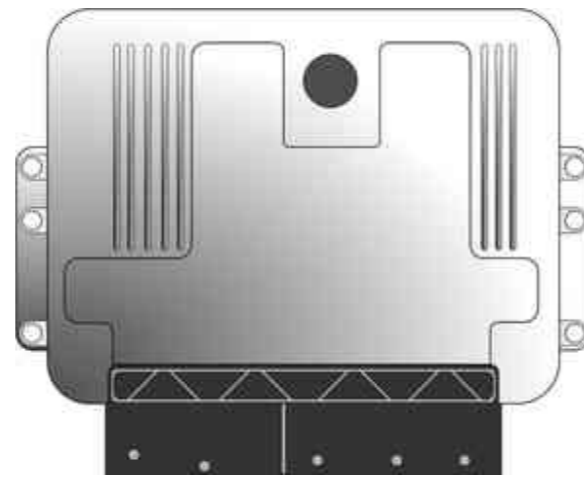
X35 28	X35 54	X35 56	X35 57	X35 58	X35 59	X35 60
+Ignition / 0..32V	+UE / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V	+UB / 0..32V
A34	A34	A34	A34	A34	A34	A34
+ Ignition	+UE	+UB	+UB	+UB	+UB	+UB
Ignition Zündung	Power Supply (Electronic) Spannungsvers. (Elektronik)	Power Supply (Outputs)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

8.4 / 31_DCtrl

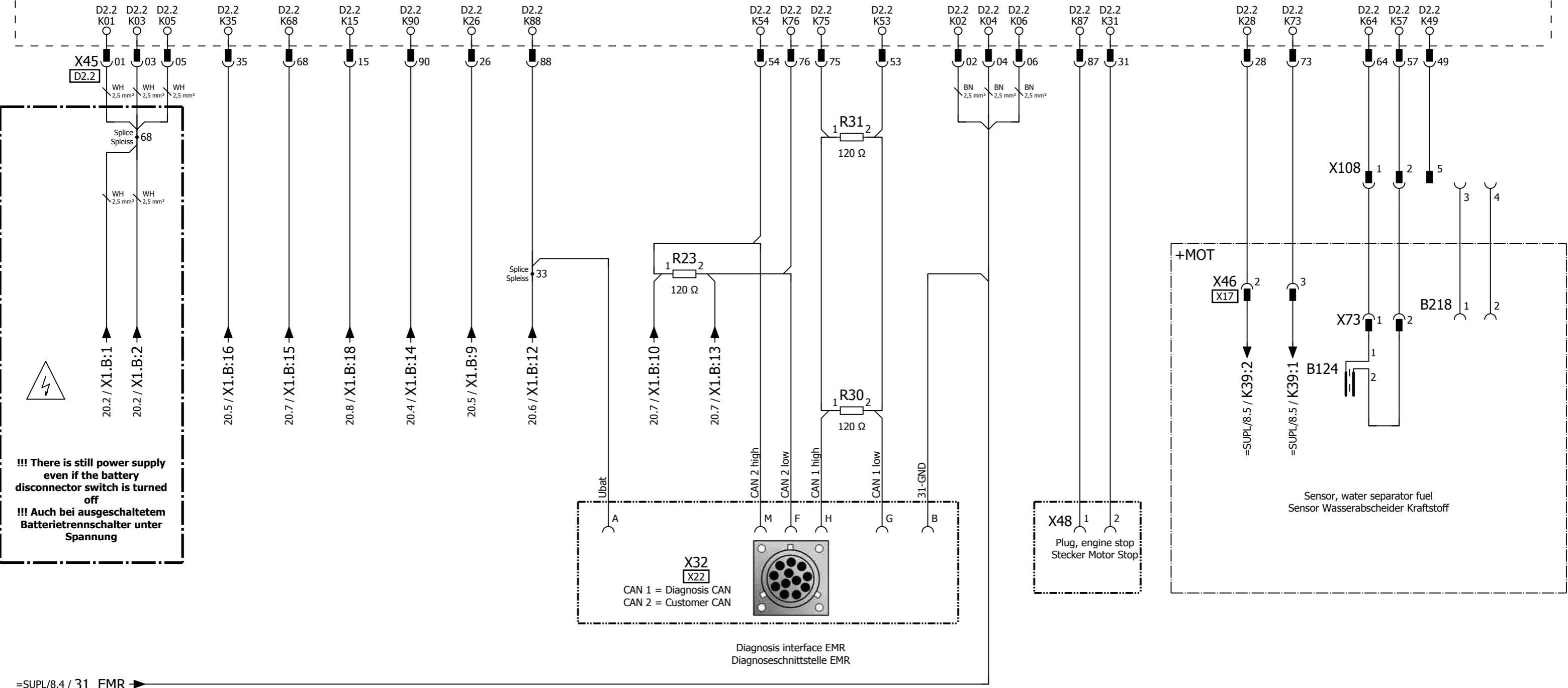
31_DCtrl / =DRIV/25.0

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

Harness Engine interface - Engine internal
 Kabelbaum Motorschnittstelle - Motorintern



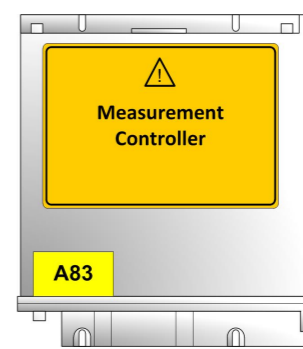
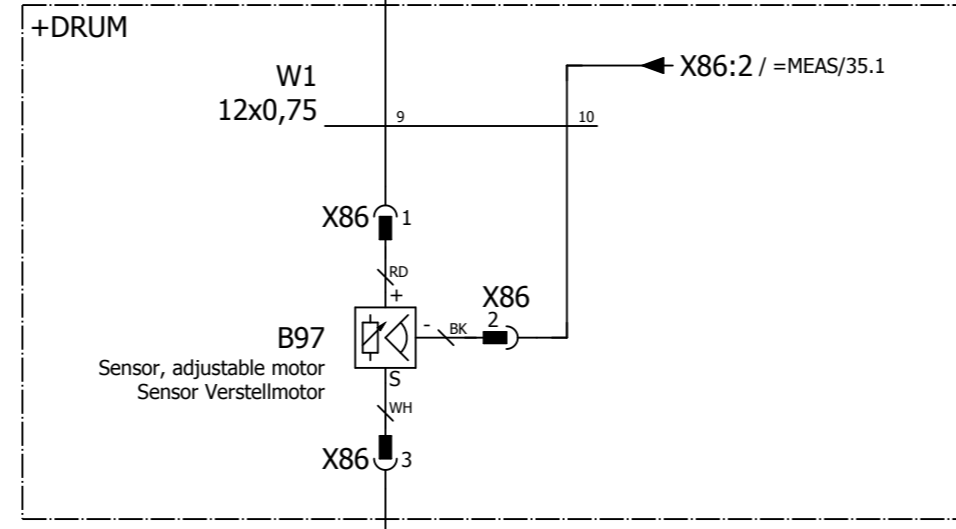
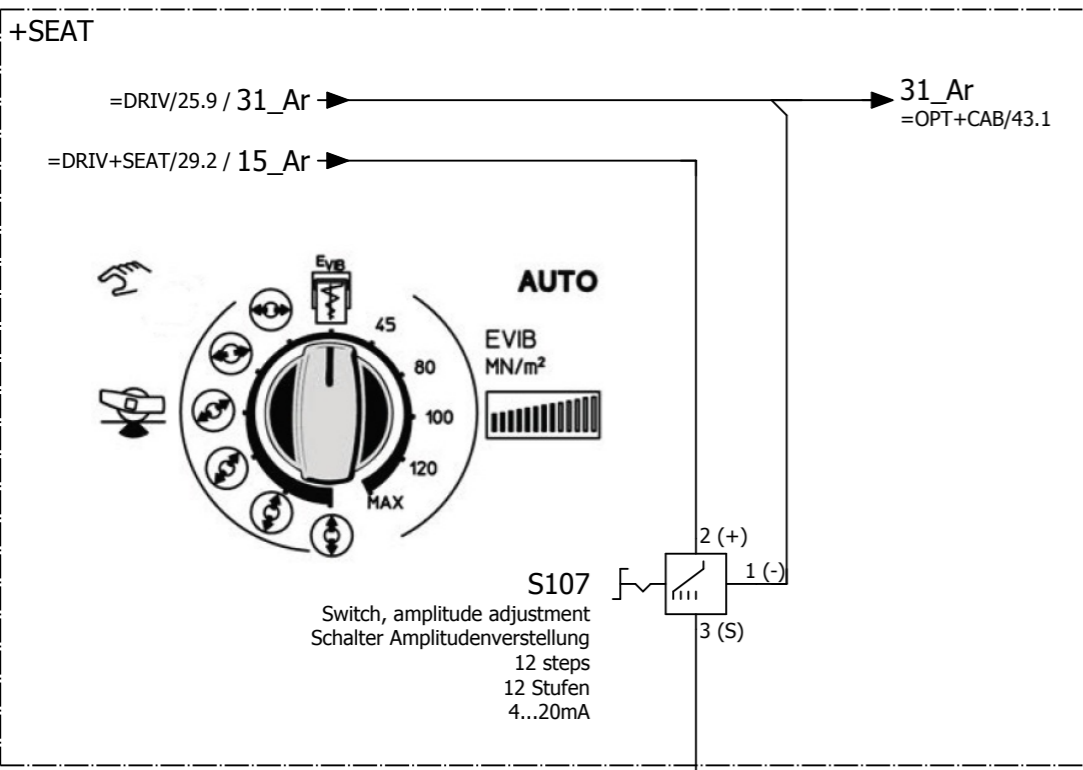
Plug, engine-controller motor-part Stecker Motorsteuergerät Motorseite = X44
 Plug, engine-controller machine-part X45 = Stecker Motorsteuergerät Maschinenseite



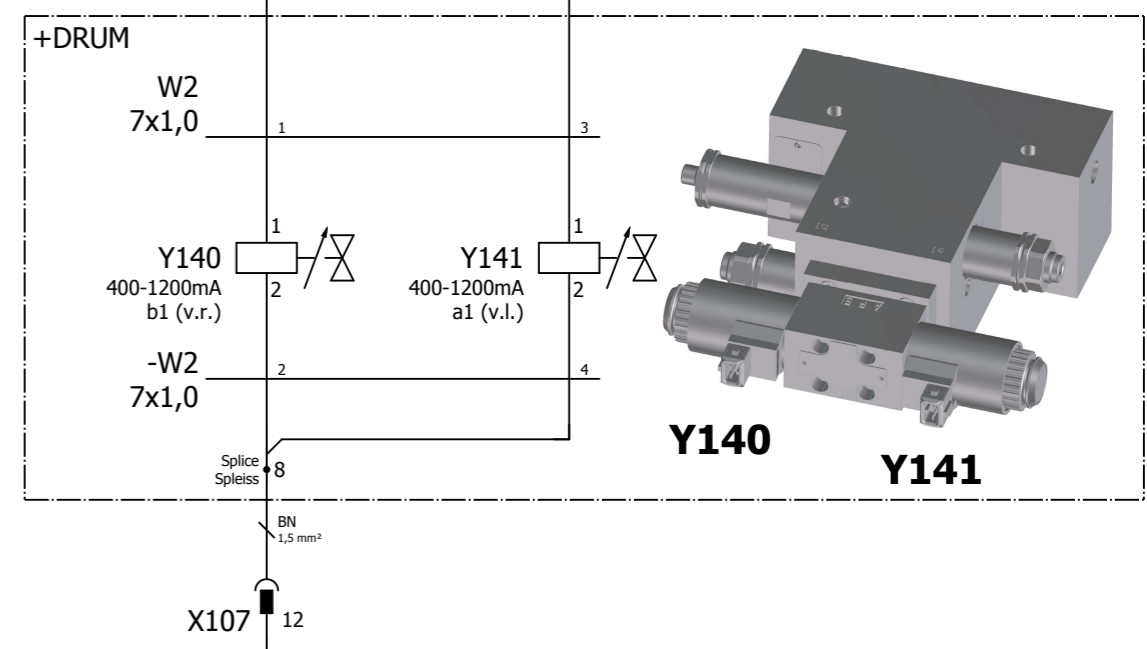
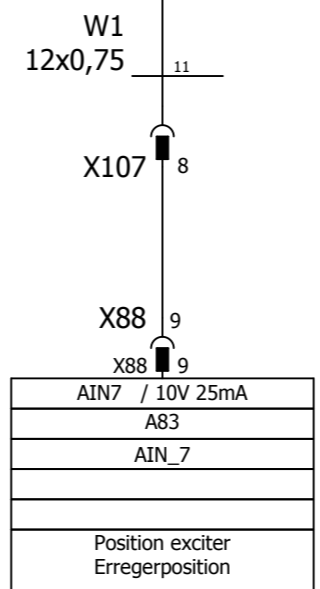
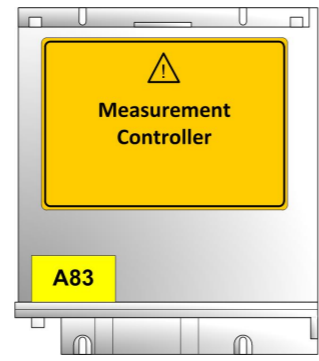
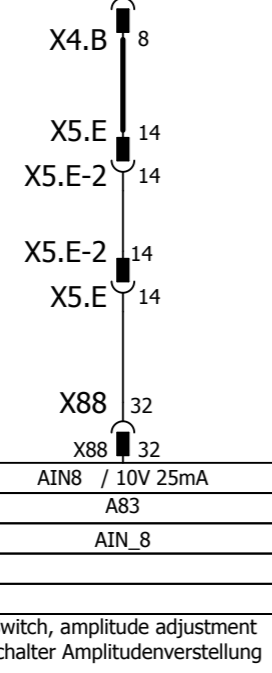
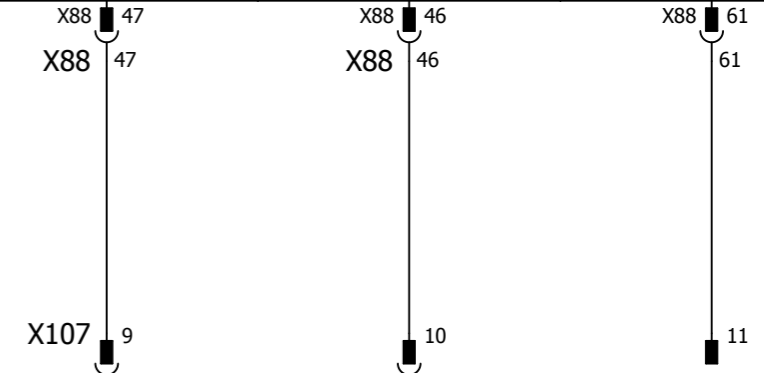
!!! There is still power supply even if the battery disconnecter switch is turned off
 !!! Auch bei ausgeschaltetem Batterietrennschalter unter Spannung

=SUPL/8.4 / 31_EMR

=SUPL/13.9 / FM2



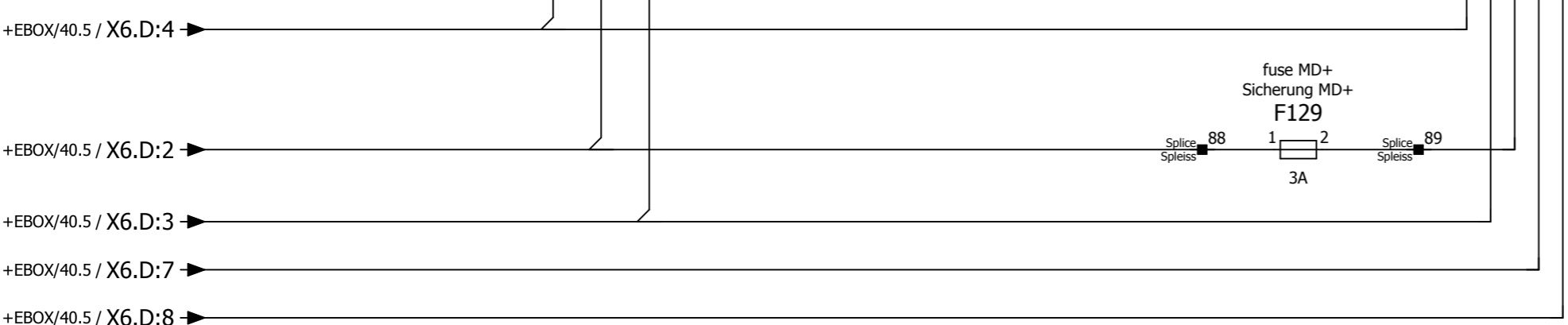
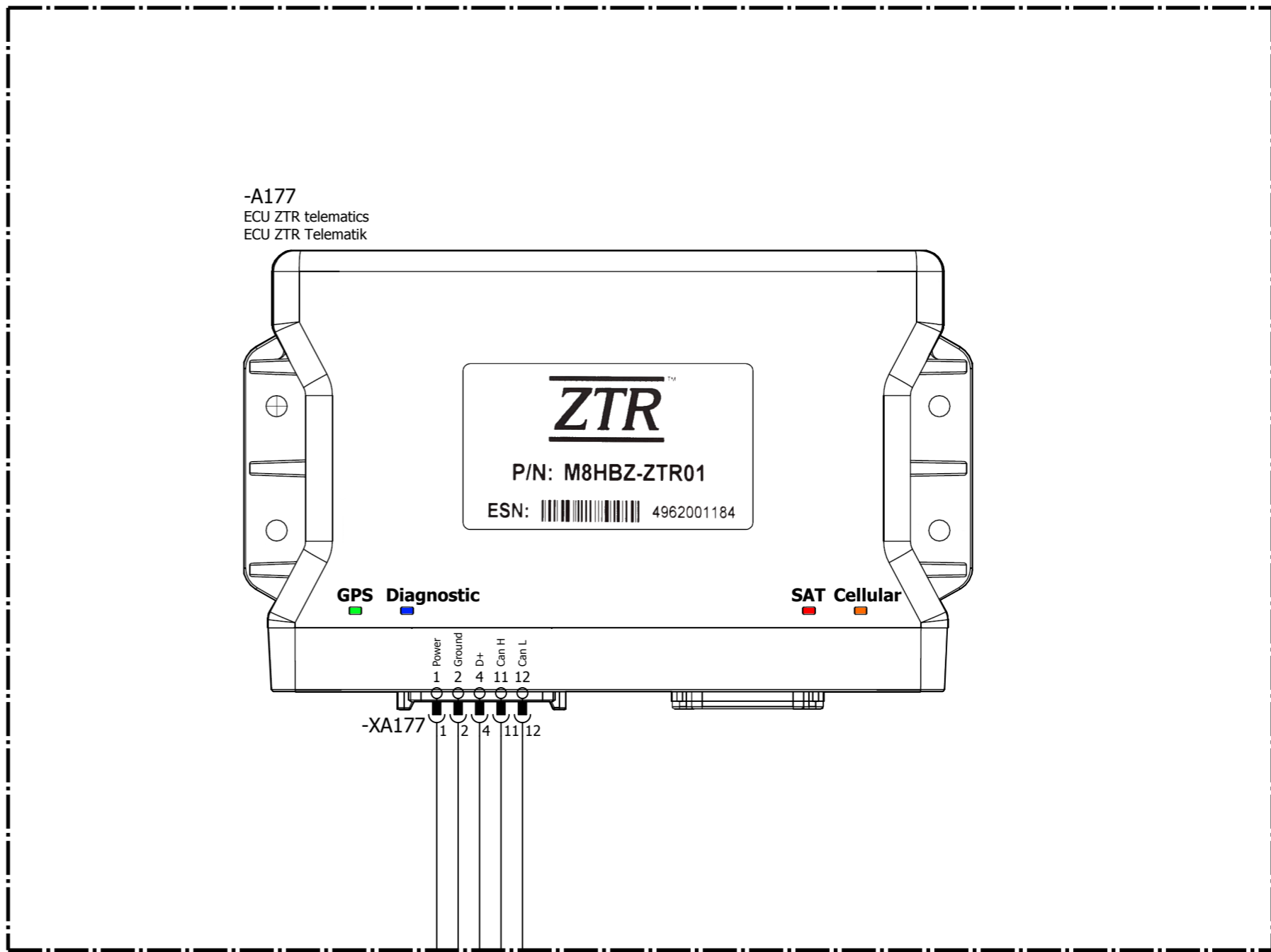
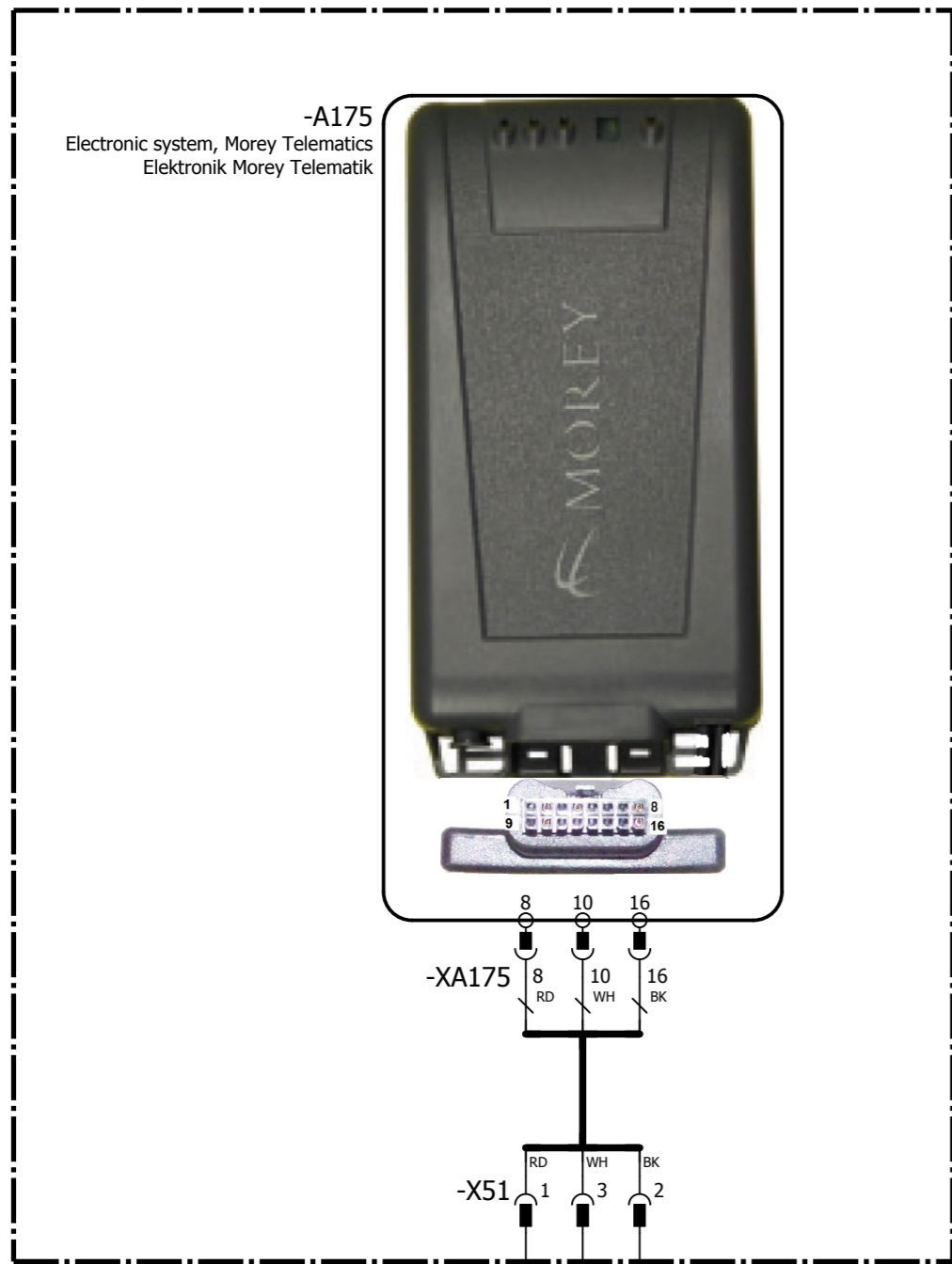
Exciter up Erreger auf	Exciter down Erreger ab	Exciter priority Erreger Priorität
PWM_2 A83	PWM_1 A83	DO_5 A83
OUT2 / 4A curr.-measur.	OUT1 / 4A curr.-measur.	OUT6 / 4A

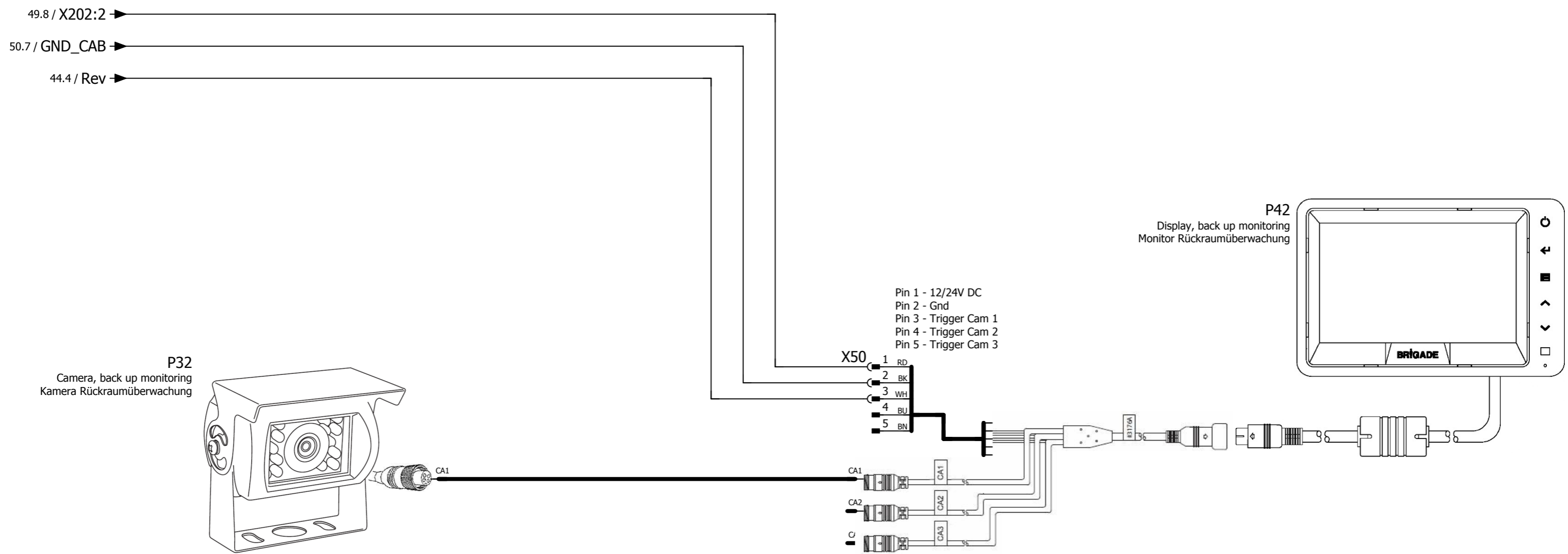



Solenoid valve, exciter up
Magnetventil Erreger auf

Solenoid valve, exciter down
Magnetventil Erreger ab

=SUPL/12.9 / 31_MCtrl





0	1	2	3	4	5	6	7	8	9
Created Erstellt	M. Vogt 19.04.2016	BW 211-213 D-5 Deutz TCD 3.6 Tier 3a		 BOMAG FAYAT GROUP		Back up monitoring Rückraumüberwachung		Function Funktion == SDR	Page Blatt 51 from von 84
Checked Geprüft	K. Brand 19.04.2016							Higher-level function Anlage = OPT	367
								Mounting location Einbauort + CAB	EPE / 000 / 00

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
X7.C	+EBOX	Plug, additional options Stecker Zusatzoptionen

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
4	8	7	AMP Junior Power Timer 2 - 14 pole black
5	8	6	
6	36	6	
7	44	1	
8			
9			
10	25	6	
11	25	5	
12	27	6	
13	15	2	
14	15	4	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X7.D	+EBOX	Plug, access diagnosis Interface Bomag Stecker Anschluß Diagnosesteckdose Bomag

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1			AMP Junior Power Timer 15 pole yellow
2	15	1	
3	15	5	
4			
5	15	2	
6	15	4	
7	15	3	
8	15	8	
9			
10	15	2	
11	15	6	
12			
13	15	1	
14			
15	15	1	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X8.A	+EBOX	Plug, access supply cabin potential 30 Stecker Anschluß Kabine Potential 30

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
30	44	1	Amphenol RADSOK® 8mm

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X8.B	+EBOX	Plug, access supply cabin potential 31 Stecker Anschluß Kabine Potential 31

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
31	44	1	Amphenol RADSOK® 6mm

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X10	+CAB	Plug, heating climatic unit Stecker Heiz-Klima-Einheit

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	43	3	AMP HDSCS 4 pole Code A
2	43	4	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X10	+CAB	Plug, heating climatic unit Stecker Heiz-Klima-Einheit

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
3			AMP HDSCS 4 pole Code A
4	43	3	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X11	+REFR	Plug, connection rear frame - engine module Stecker Verbindung Hinterrahmen - Motormodul

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	24	8	
2	24	8	
3			
4			
5			
6	37	1	
7	37	8	
8	37	1	
9	37	2	
10	37	8	
11	37	1	
12			

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X12	+MOT	Plug, compressor air conditioning Stecker Kompressor Klimaanlage

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	43	1	4,6RSH2,5

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X14	+SEAT	Plug, seat contact switch Stecker Sitzkontaktschalter

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
A	25	3	Deutsch DT 3 pole
B	25	3	
C			

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X16	+DPL	Plug, keyboard electrical burglary protection Stecker Tastatur Elektronische Diebstahlsicherung

Contact Kontakt	Page Blatt	Path Pfad	Type Typ
1	38	5	Deutsch DT 4 pole
2	38	5	
3	38	5	
4	38	5	

Designation Bezeichnung	Mounting location Einbauort	Function text Funktionstext
X20	+DRUM	Plug, transducer acceleration front Stecker Beschleunigungsaufnehmer vorne

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

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