

Elektroplan Electric diagram

HD13-14

H201
Baureihe /
Series

0001 - 4029
Seriennummer /
Serial No

12.09.2017
Ausgabedatum /
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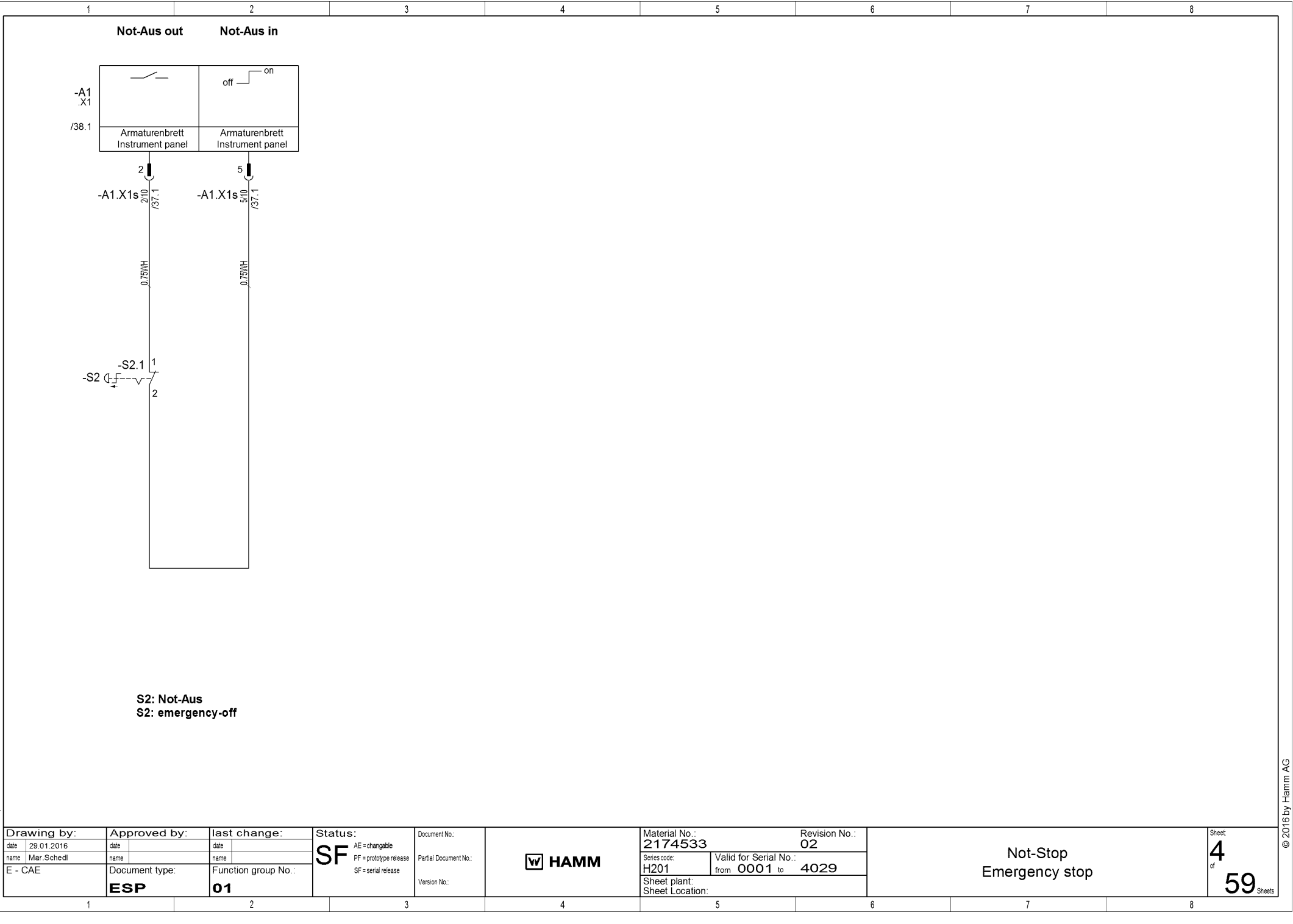
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-A1.X1s

0.75MH

1

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-S2.1

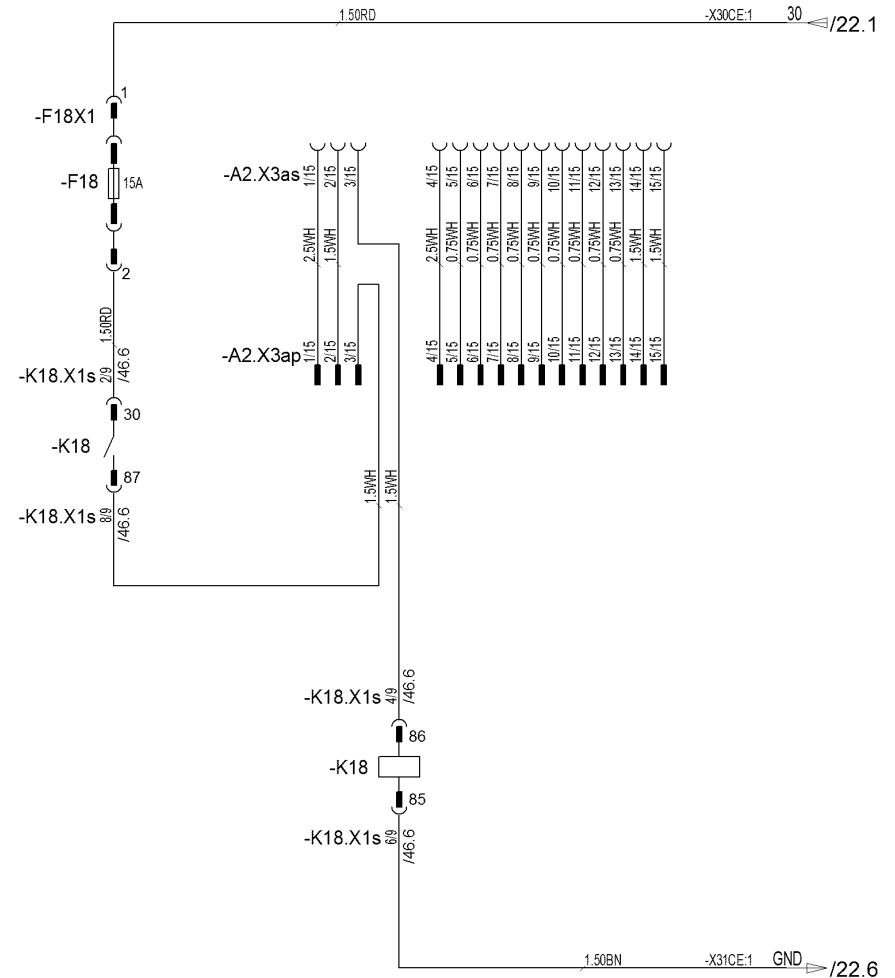
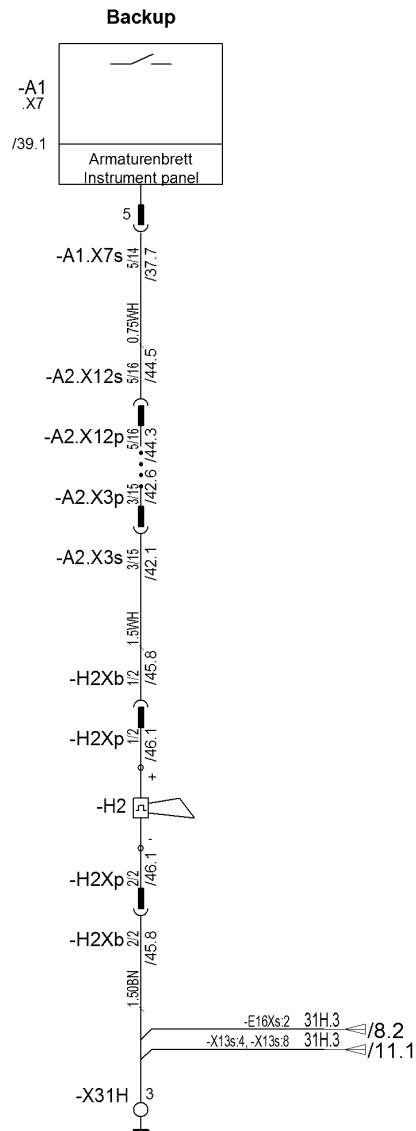
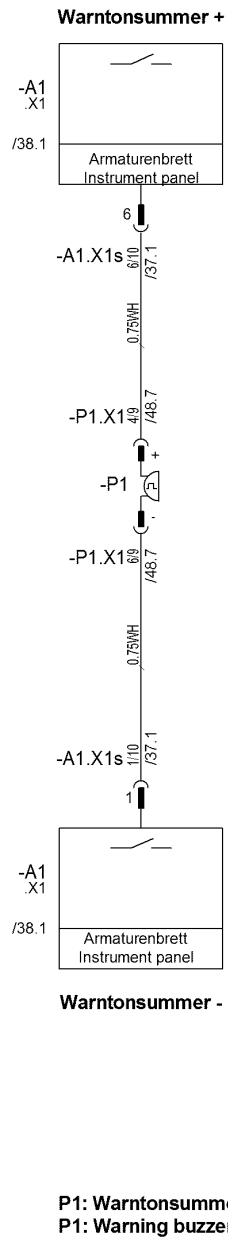


-S2

S2: Not-Aus

S2: emergency-off

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Rückfahrwarneinrichtung, Warntonsummer
Back-up alarm, Warning buzzer

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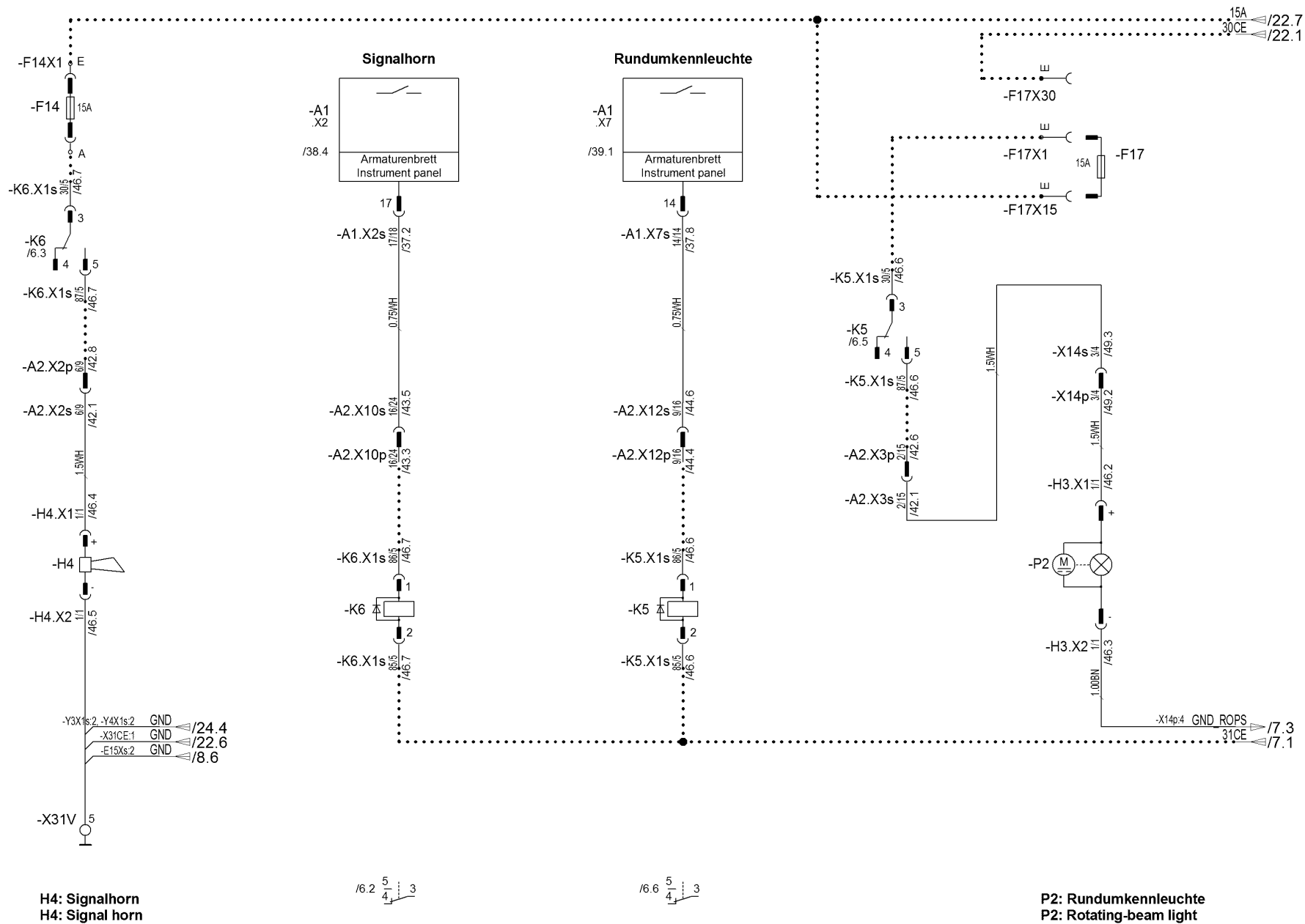
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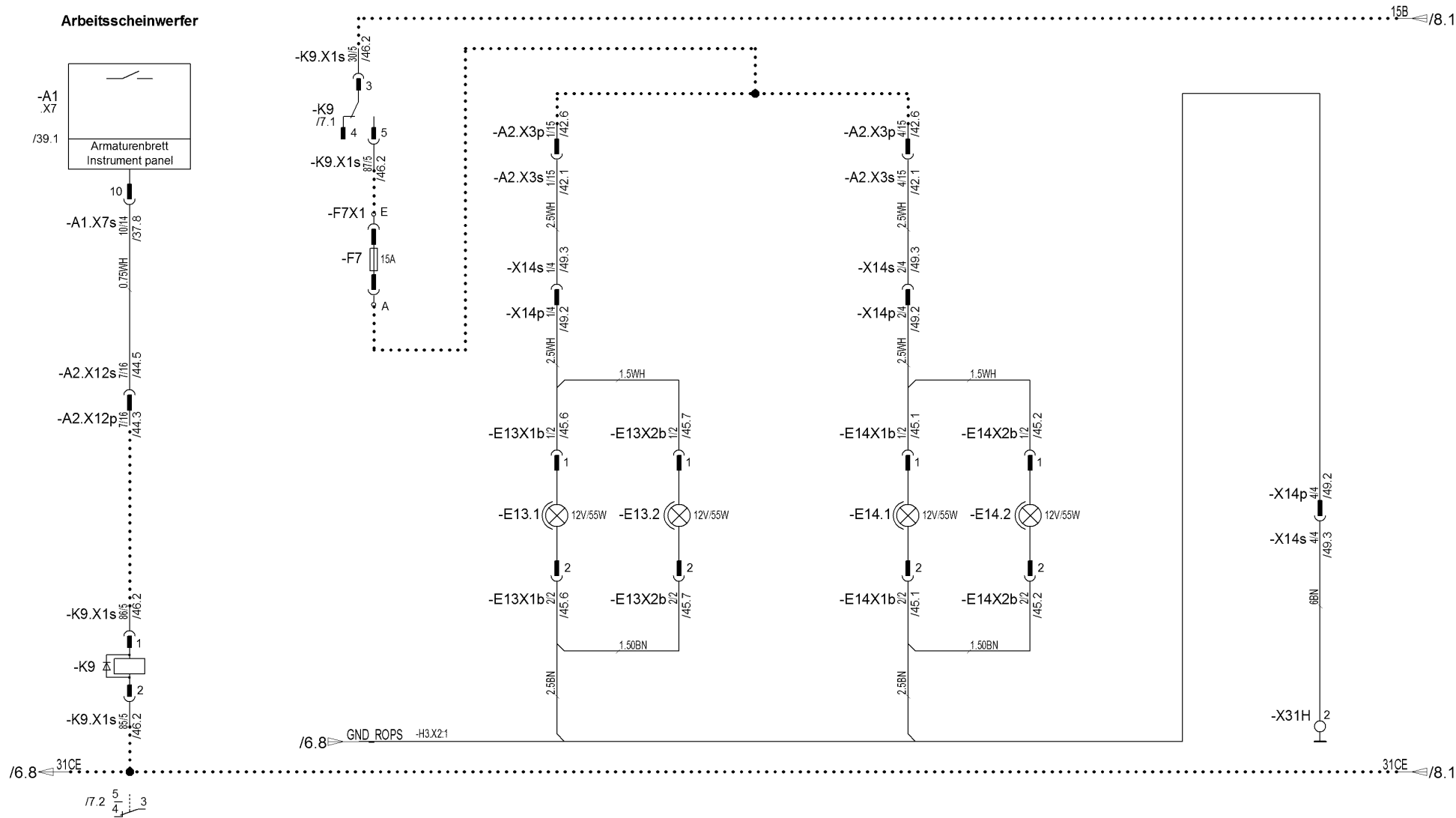
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Signalhorn, Rundumkennleuchte
Signal horn, Rotating-beam light

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Arbeitsscheinwerfer
Working spotlights

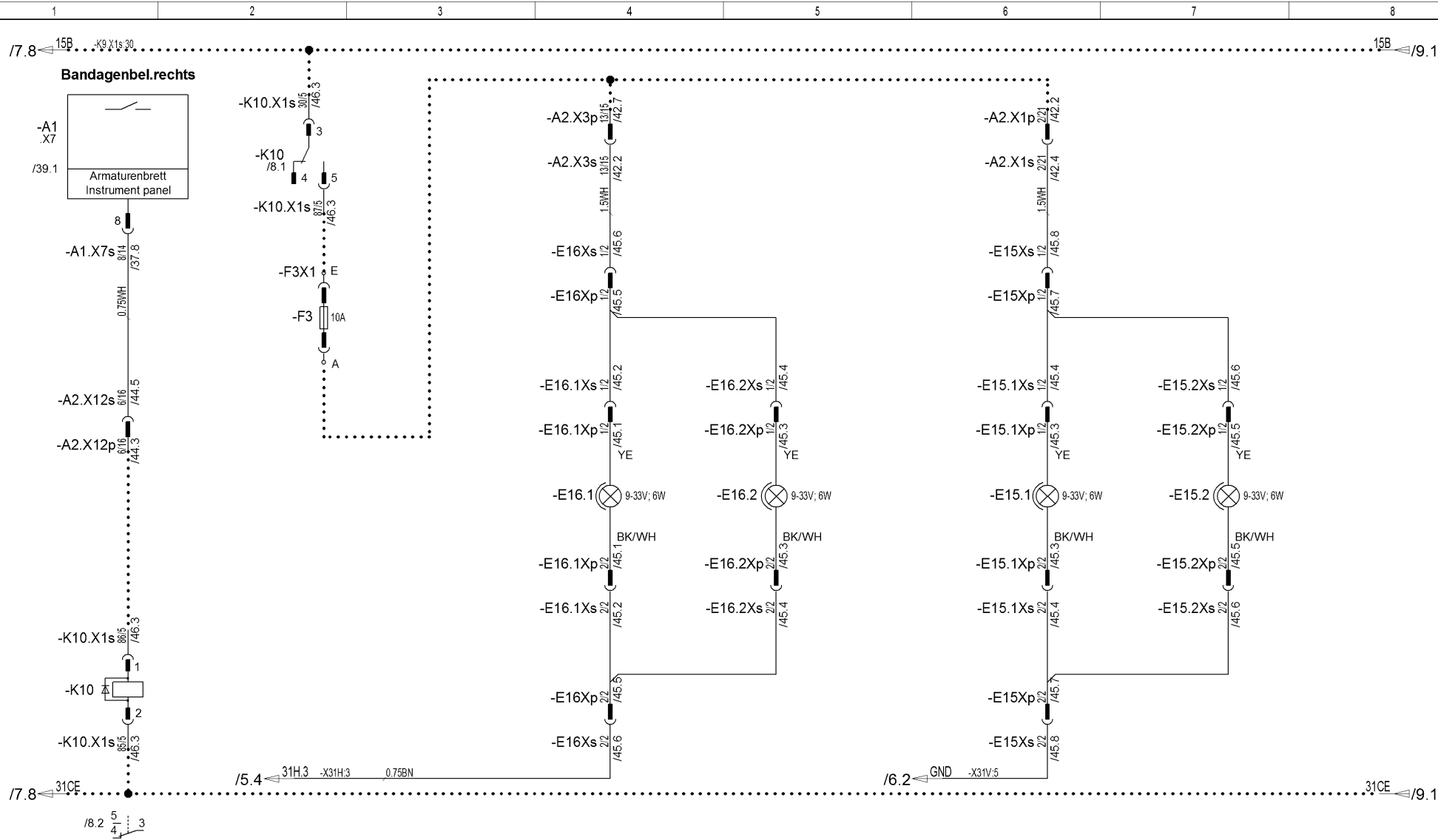
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E16: Bandagenbeleuchtung
E16: Drum lighting

E15: Bandagenbeleuchtung
E15: Drum lighting

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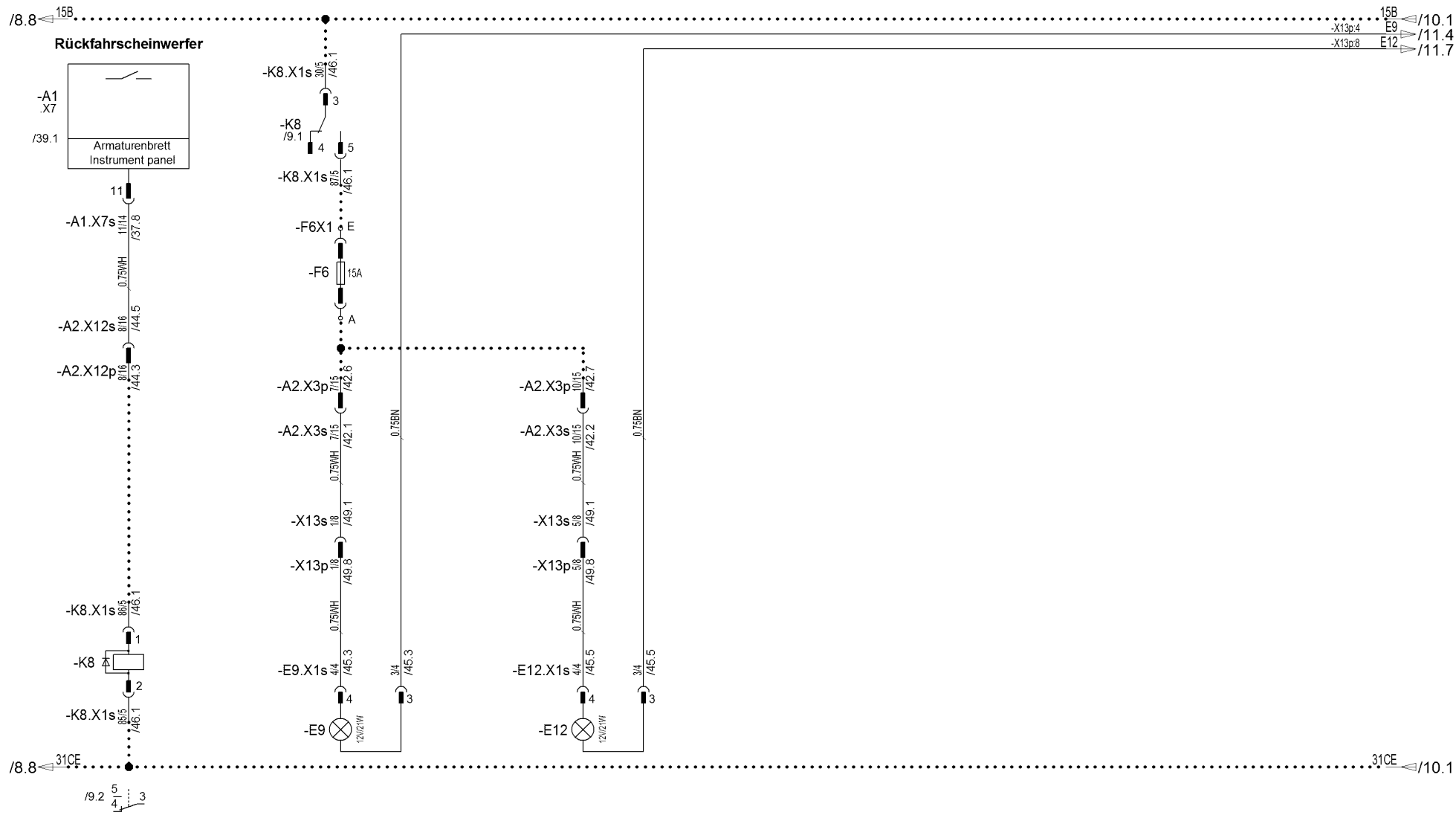
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Bandagenbeleuchtung
Drum lighting

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E9: Rückfahrscheinwerfer
E9: Back-up light

E12: Rückfahrscheinwerfer
E12: Back-up light

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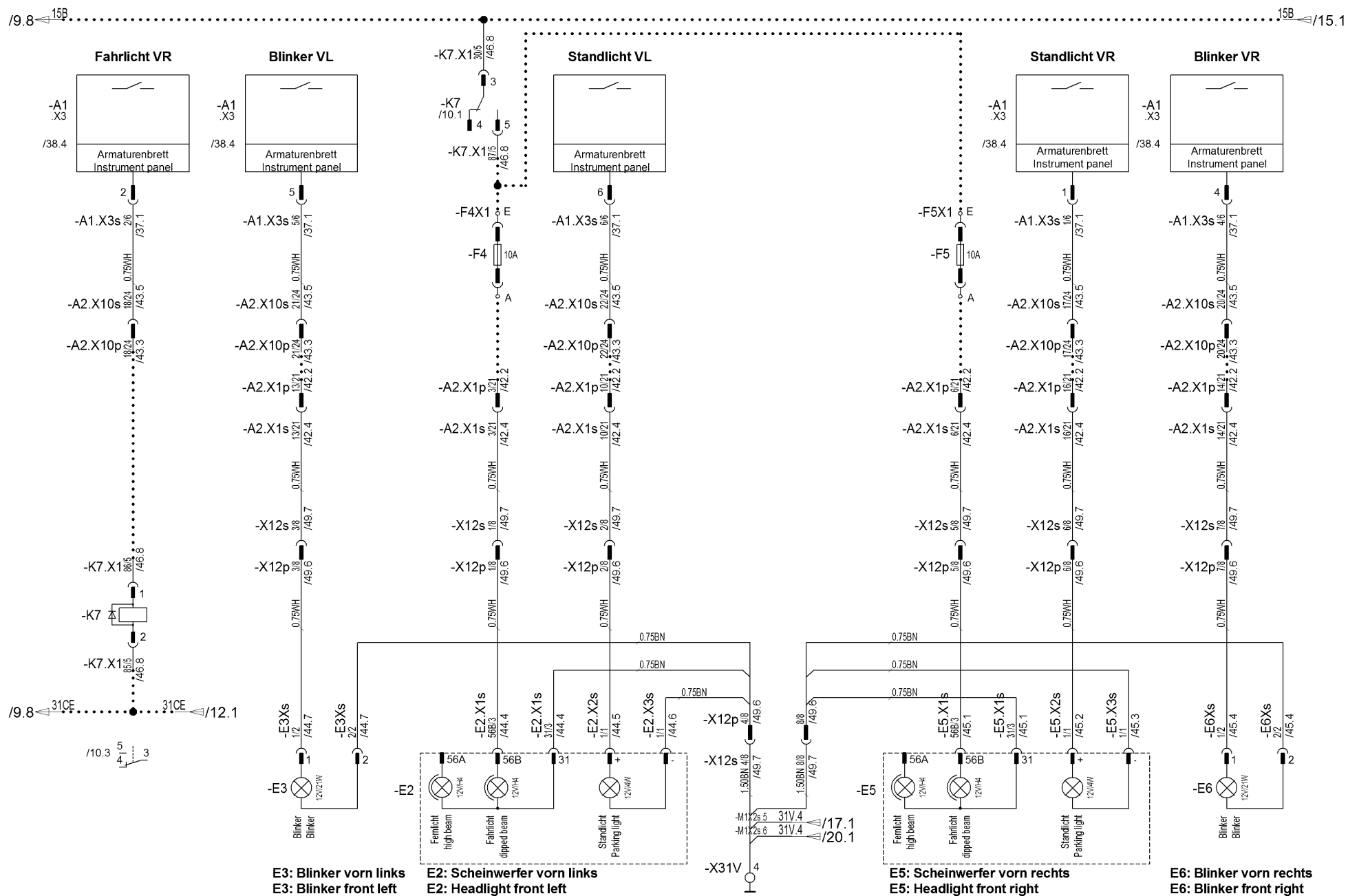
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Rückfahrscheinwerfer
Back-up light

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Beleuchtung STVZO vorne

Lighting STVZO front

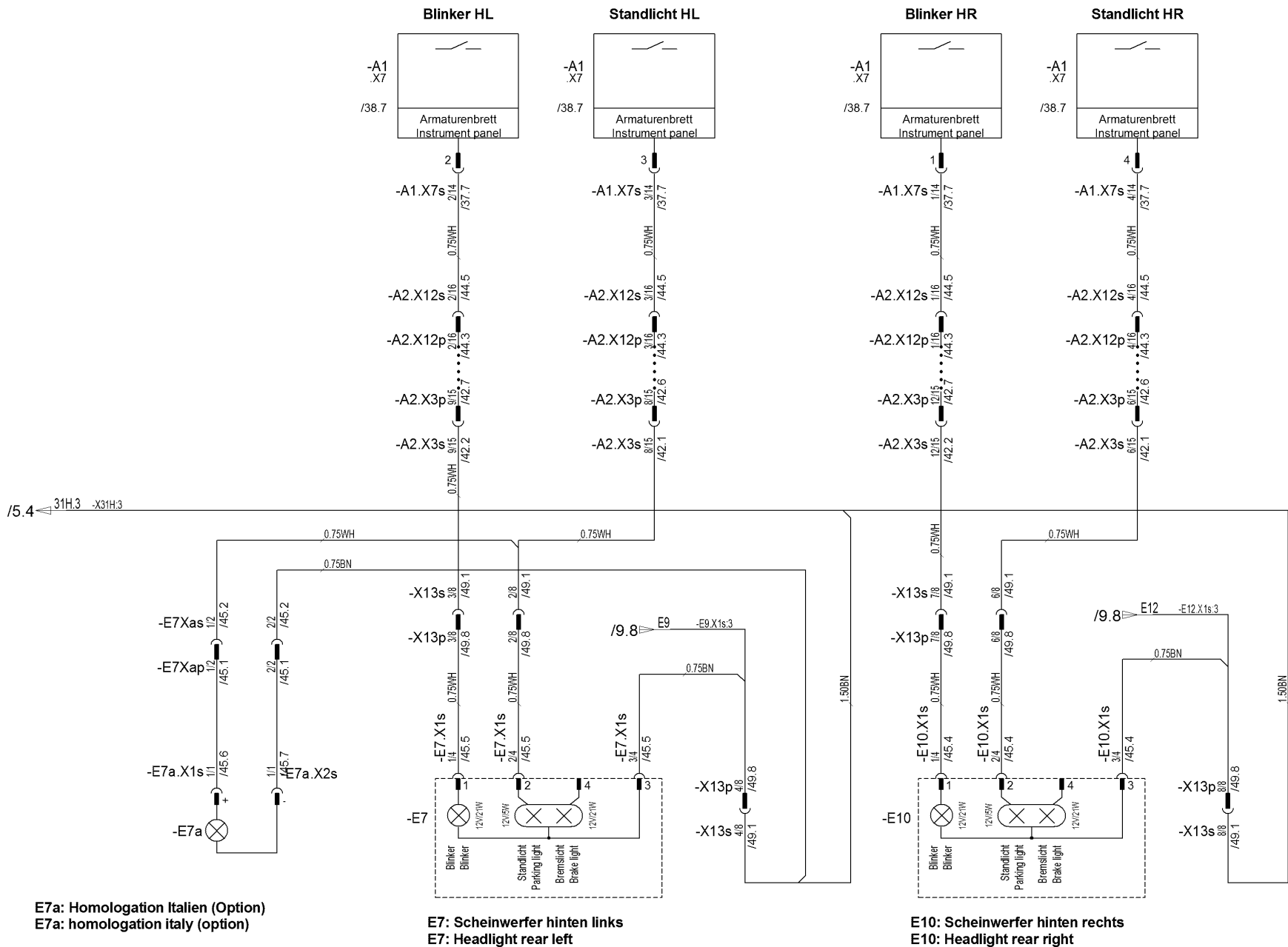
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Beleuchtung STVZO hinten
Lighting STVZO rear

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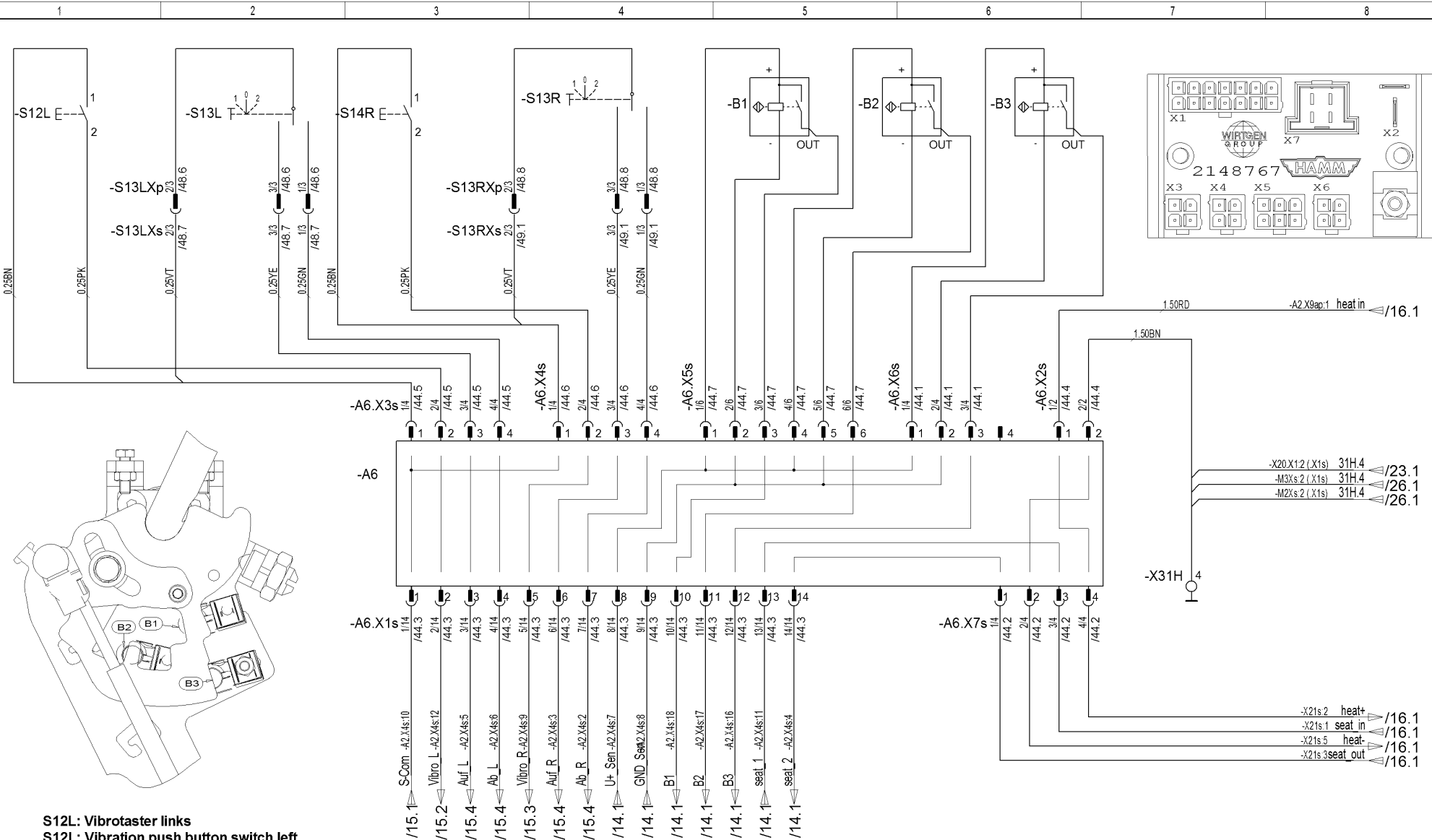
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Armaturenbrett
Instrument panel

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S12L: Vibrotaster links
S12L: Vibration push button switch left

S13L: Schalter Kantenandrückgerät links
S13L: Switch Edge pressing assembly left

S12R: Vibrotaster rechts
S12R: Vibration push button switch right

S13R: Schalter Kantenandrückgerät rechts
S13R: Switch Edge pressing assembly right

B1: Näherungsschalter 1 Fahrhebel
B1: Proximity switch 1 Drive lever

B2: Näherungsschalter 2 Fahrhebel
B2: Proximity switch 2 Drive lever

B3: Näherungsschalter Rückfahrwarneinrichtung
B3: Proximity switch Back-up alarm

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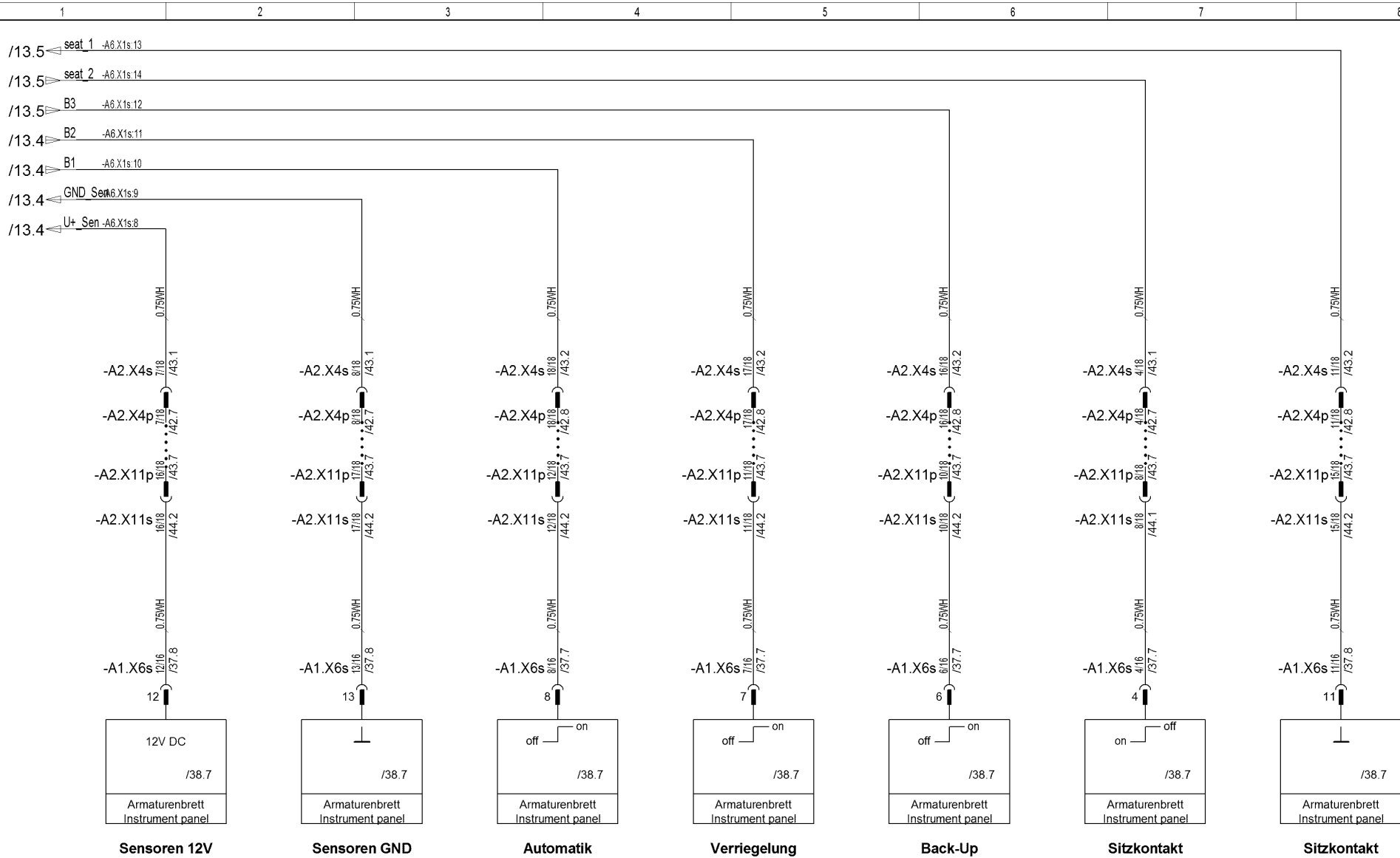
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Fahrhebel
travel drive lever

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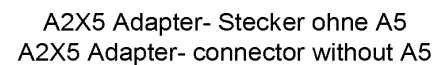
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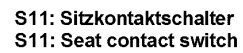
Fahrhebel
travel drive lever

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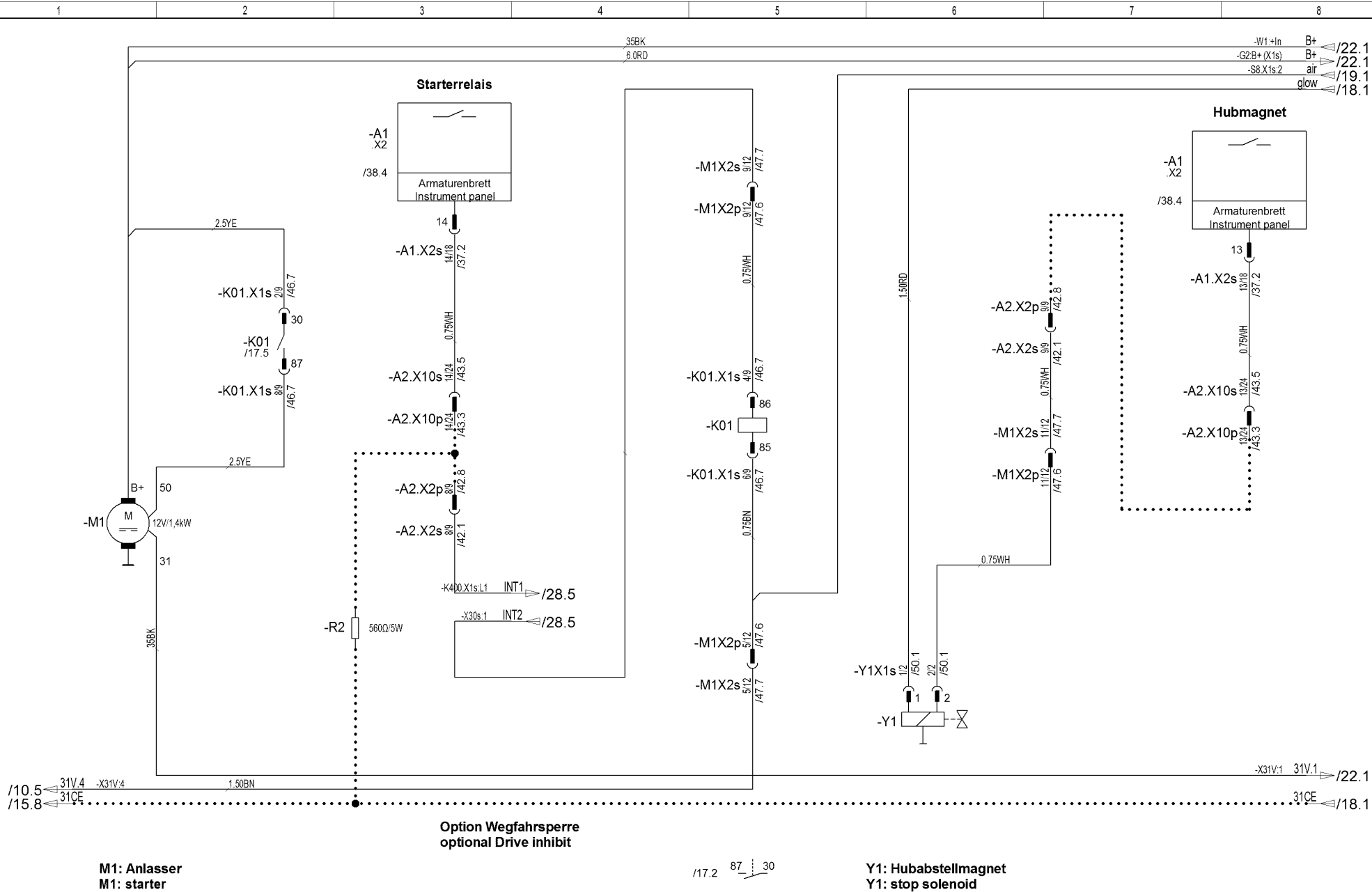


A5: Steuergerät Kantenandrückgerät
A5: Control device Edge pressing assembly

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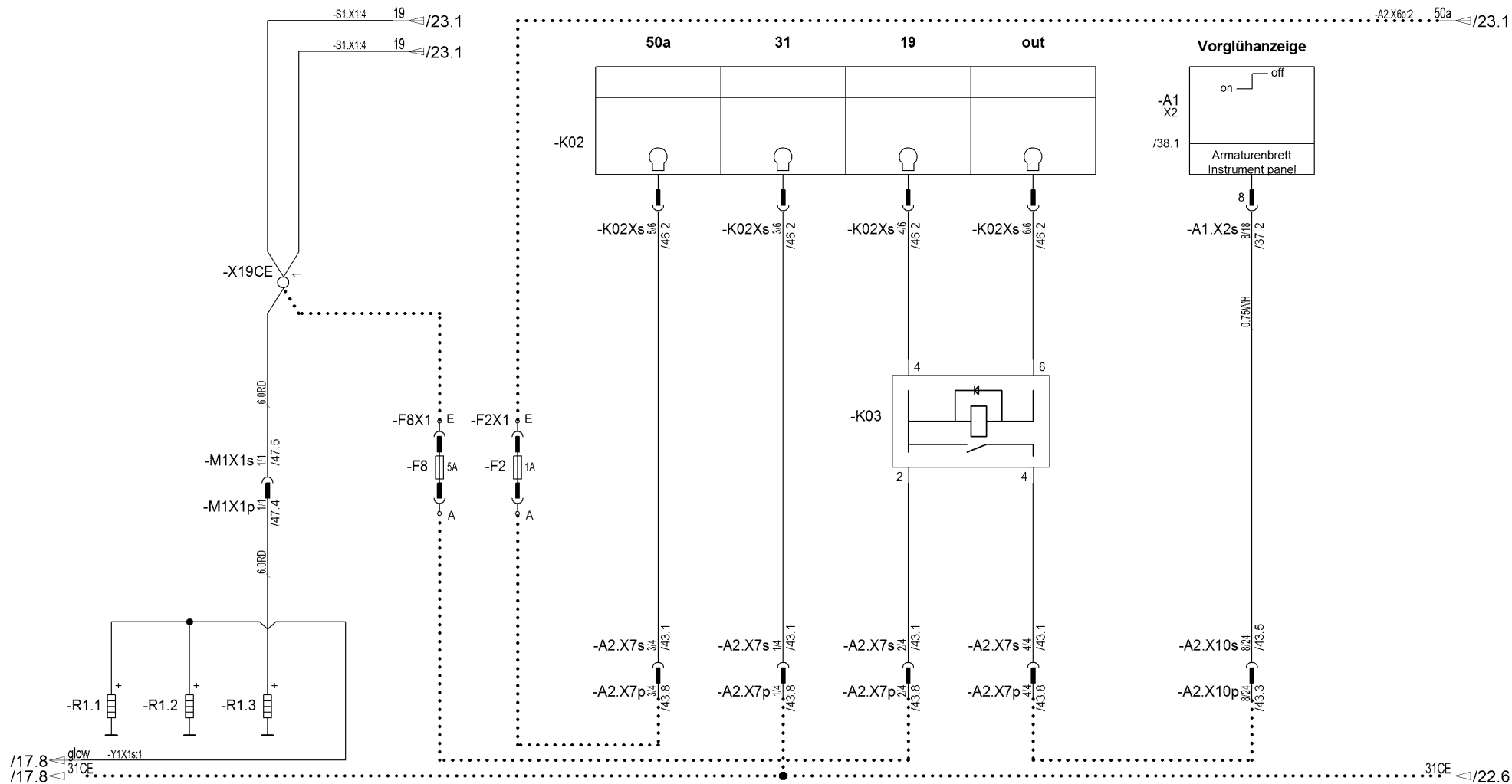
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Anlasser Hubabstellmagnet
starter stop solenoid

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R1: Glühkerze
R1: Heater plug

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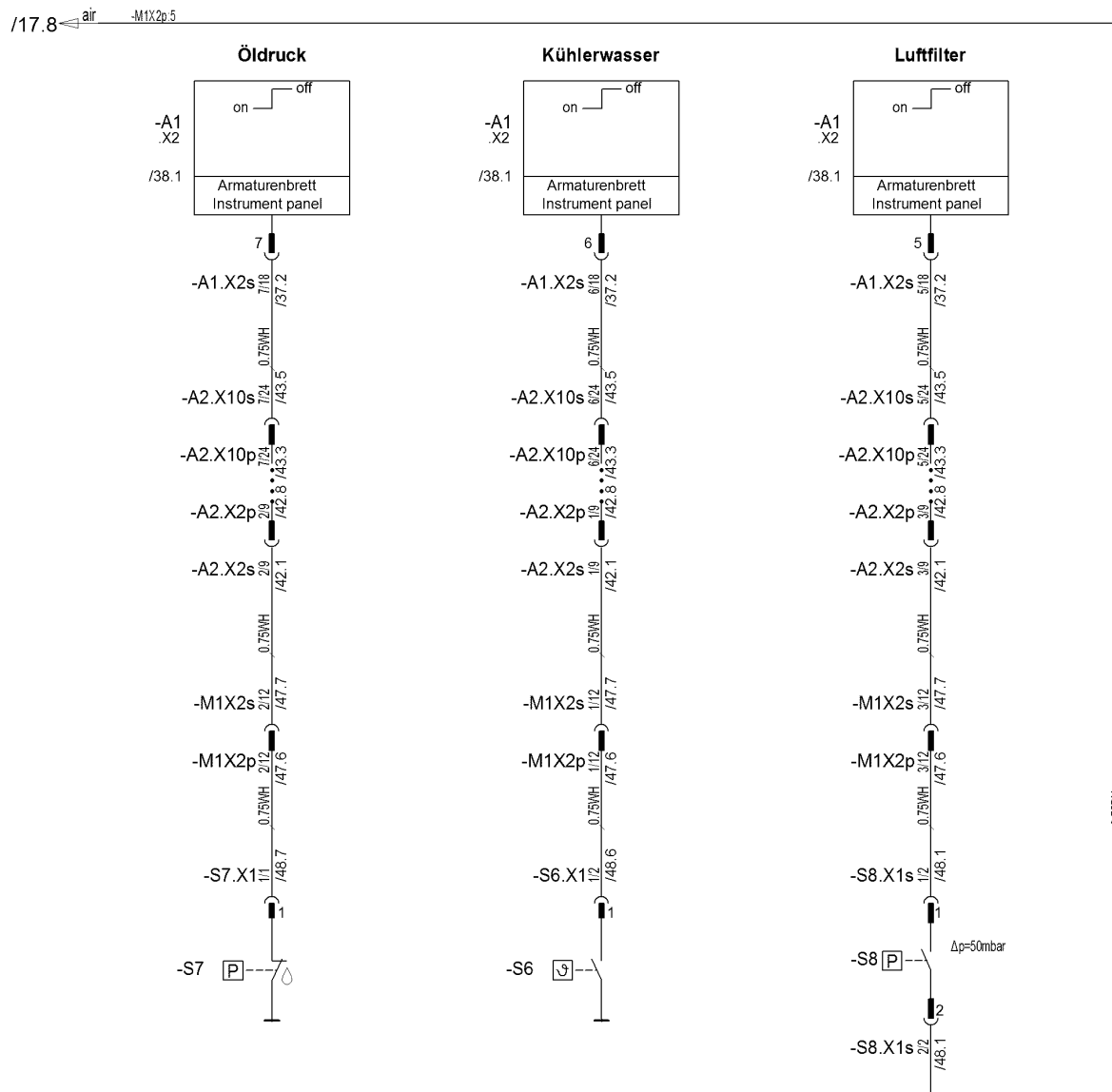
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Vorglühanlage
Preheat equipment

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S6: Temperaturschalter Motorkühlflüssigkeit
S6: Temperature switch Engine cooling fluid

S7: Motoröldruck
S7: Engine oil pressure

S8: Unterdruckschalter, Luftfilter
S8: Pressure switch, air filter

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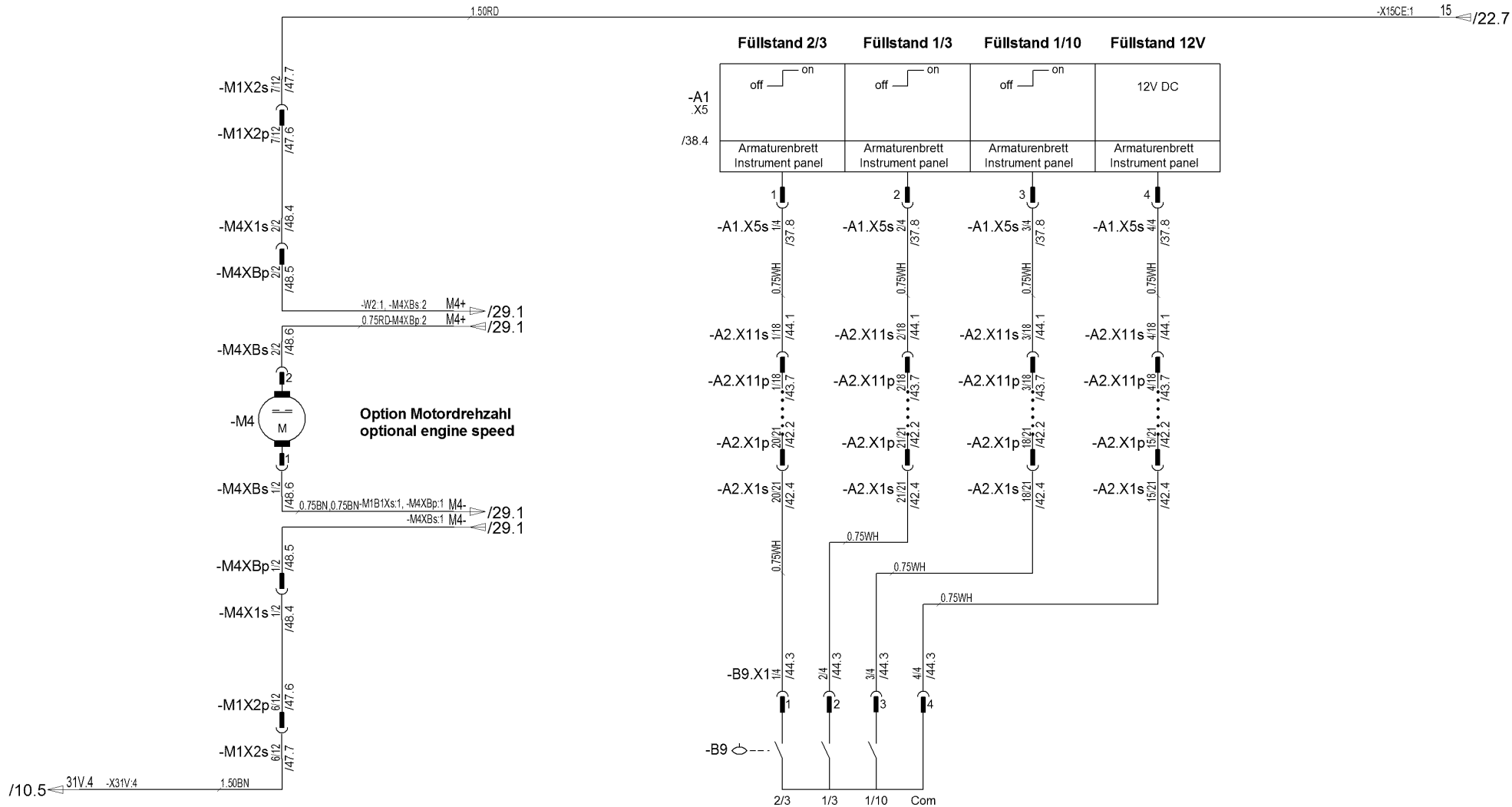
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Überwachung Dieselmotor
monitoring diesel engine

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M4: Kraftstoffförderpumpe
M4: Fuel pump

B9: Füllstandsgeber, Kraftstoff
B9: Level transmitter, fuel

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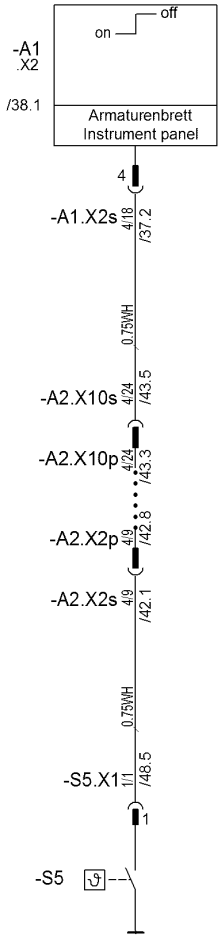


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Kraftstoff
fuel

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Hydrauliköl



S5: Temperaturgeber, Hydrauliköl
S5: Temperature sensor, hydraulic oil

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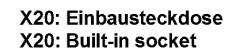
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Temperaturgeber, Hydrauliköl
Temperature sensor, hydraulic oil

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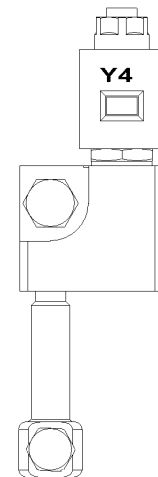
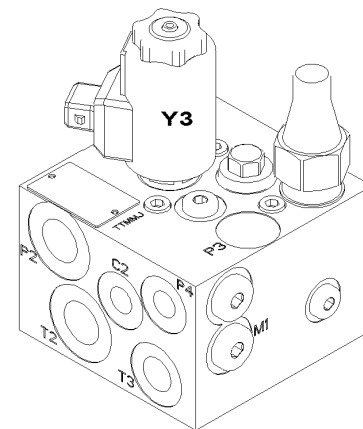
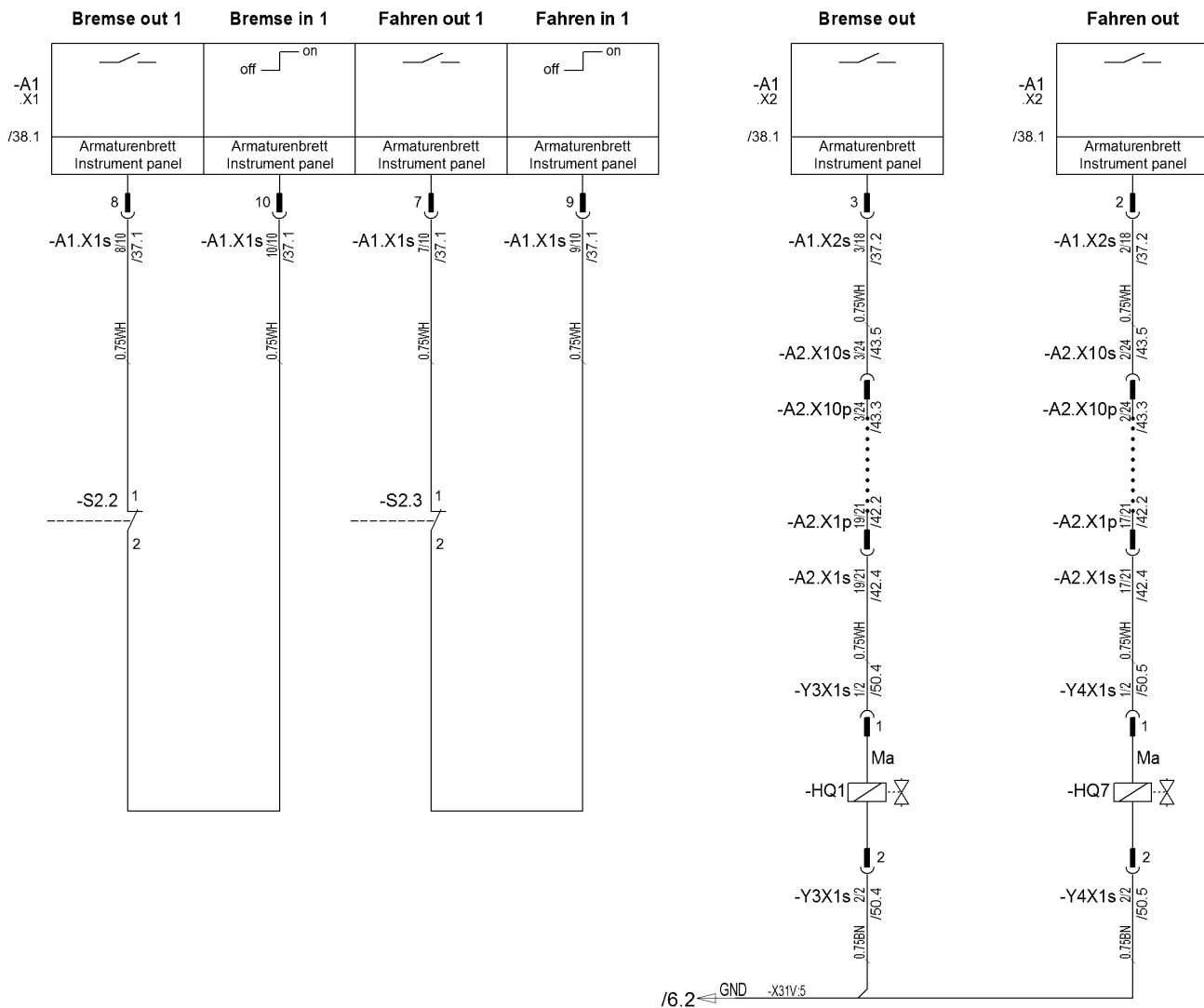


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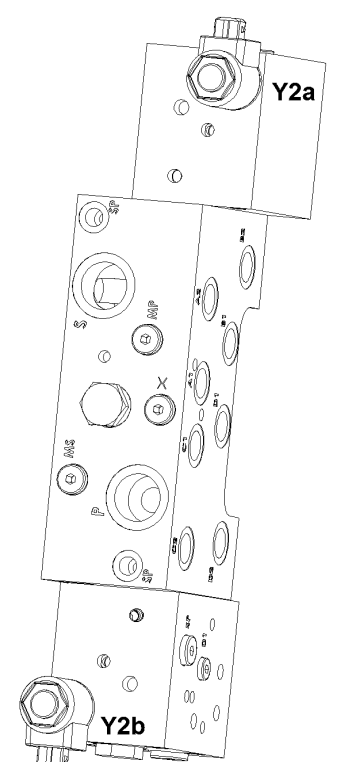
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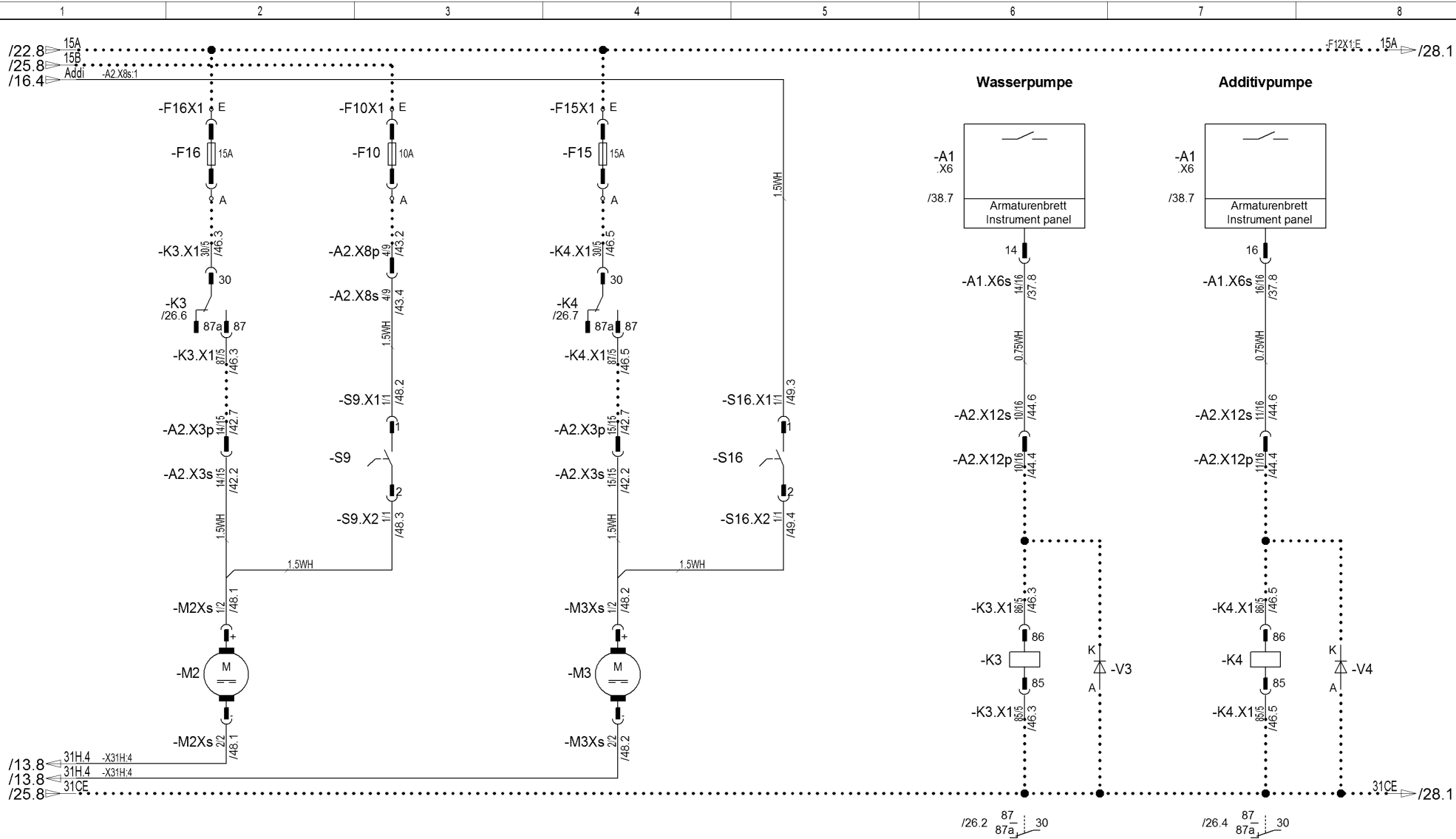
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Steuerung Fahrtrieb
controller advance drive

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M2: Pumpe Wasserberieselung
M2: Pump Sprinkling

M3: Pumpe Additivberieselung
M3: Pump Additive sprinkling

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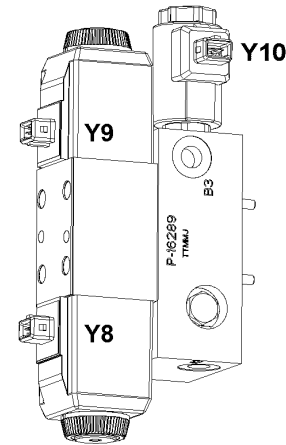
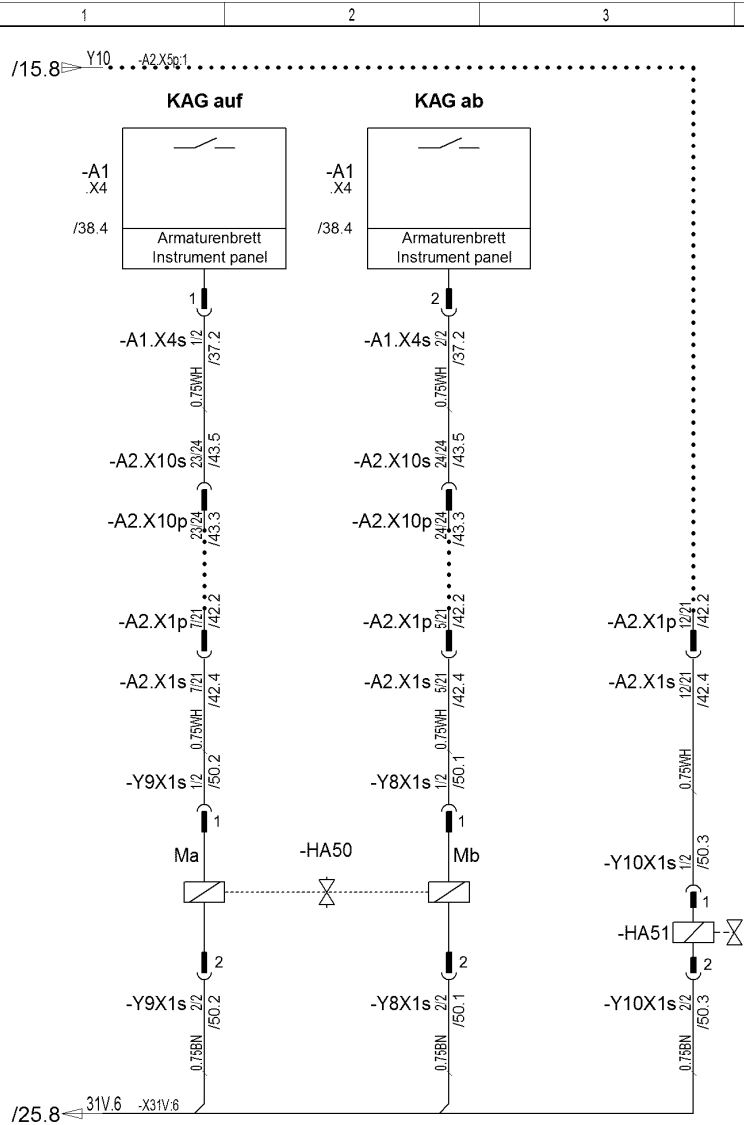
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Wasserberieselung Additivberieselung
Sprinkling Additive sprinkling

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Y10: nur bei Kantenandrückgerät links und rechts
Y10: only on Edge pressing assembly left and right

Y9: Kantenandrückgerät senken
Y9: Edge pressing assembly lower

Y10: Umschaltventil Kantenandrückgerät
Y10: Reversing valve Edge pressing assembly

Y8: Kantenandrückgerät heben
Y8: Edge pressing assembly lift

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E - CAE	Document type:	Function group No.:
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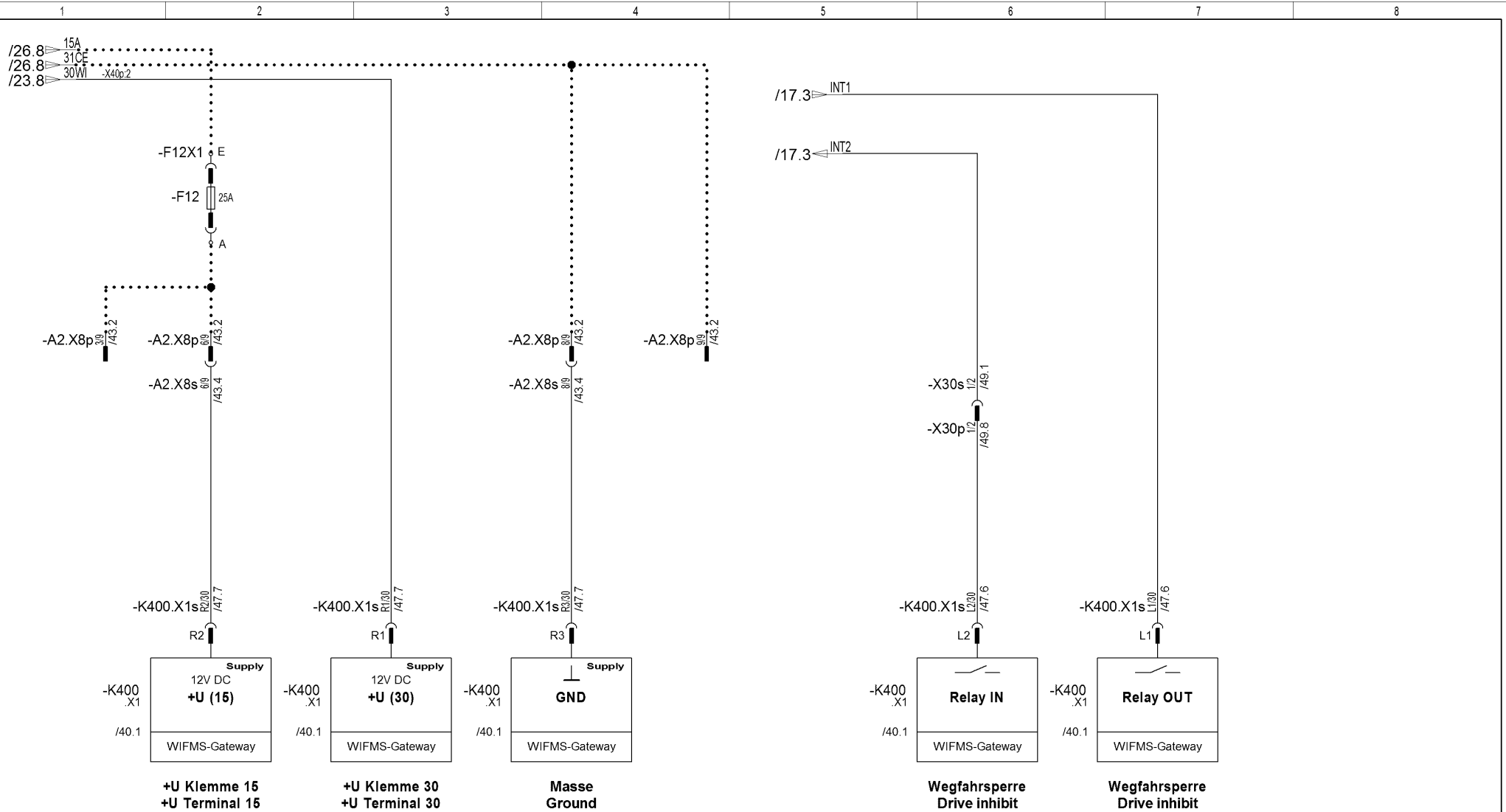
Status:	Document No.:
AE = changable	
PF = prototype release	Partial Document No.:
SF = serial release	Version No.:



Material No.:	Revision No.:
2174533	02
Series code:	Valid for Serial No.:
H201	from 0001 to 4029
Sheet plant:	
Sheet Location:	

Option Kantenandrückgerät
optional Edge pressing assembly

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Sheets



Drawing by:		Approved by:		last change:	
date	29.01.2016	date		date	
name	Mar Schedl	name		name	
E - CAE		Document type:		Function group No.:	
		ESP		15	

Status:

AE = changable

PF = prototype release

SF = serial release

Document No.:

Partial Document No.:

Version No.:

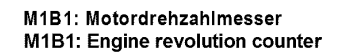


Material No.: 2174533		Revision No.: 02	
Series code: H201	Valid for Serial No.: from 0001 to 4029		
Sheet plant:			
Sheet Location:			

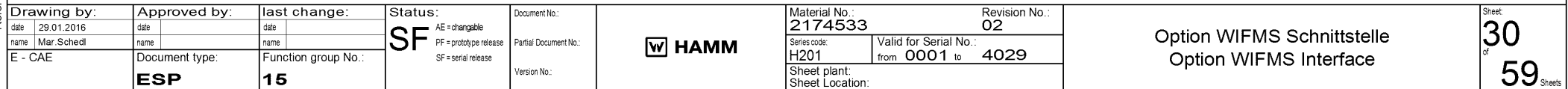
Option WIFMS Schnittstelle

Option WIFMS Interface

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Sheets	

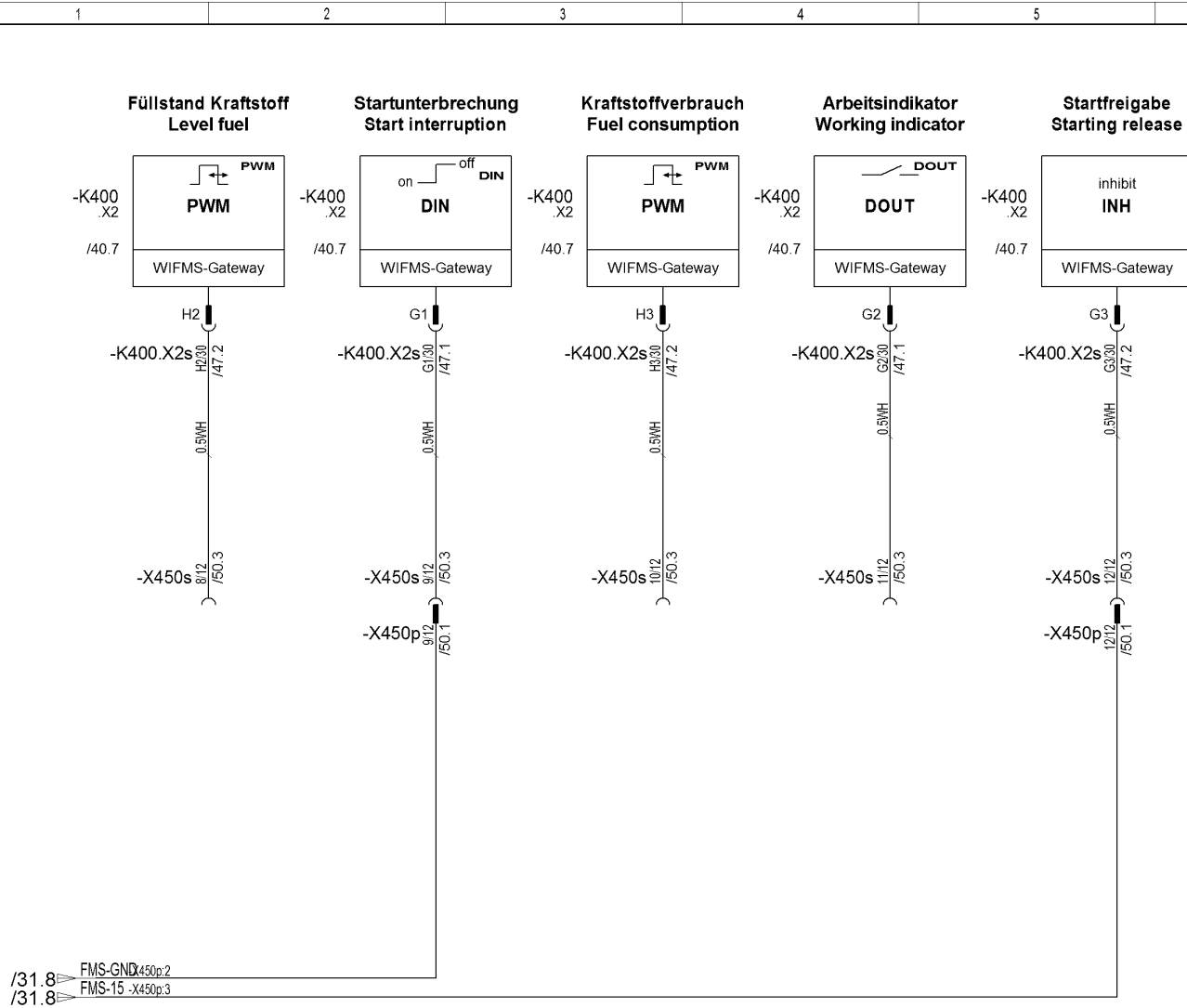


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Sheets





Drawing by:		Approved by:		last change:		Status:		Document No.:		Material No.:		Revision No.:		Option WIFMS Schnittstelle Option WIFMS Interface		Sheet 31 of 59 Sheets	
date 29.01.2016		date		date		SF AE = changeable		Partial Document No.:		2174533		02					
name Mar.Schedl		name		name		PF = prototype release				Series code:		Valid for Serial No.:					
E - CAE		Document type:		Function group No.:		SF = serial release				Version No.:		H201					
		ESP		15													



Drawing by:		Approved by:		last change:	
date	29.01.2016	date		date	
name	Mar Schedl	name		name	
E - CAE		Document type:		Function group No.:	
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Status:

SF

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SF = serial release

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Version No.:



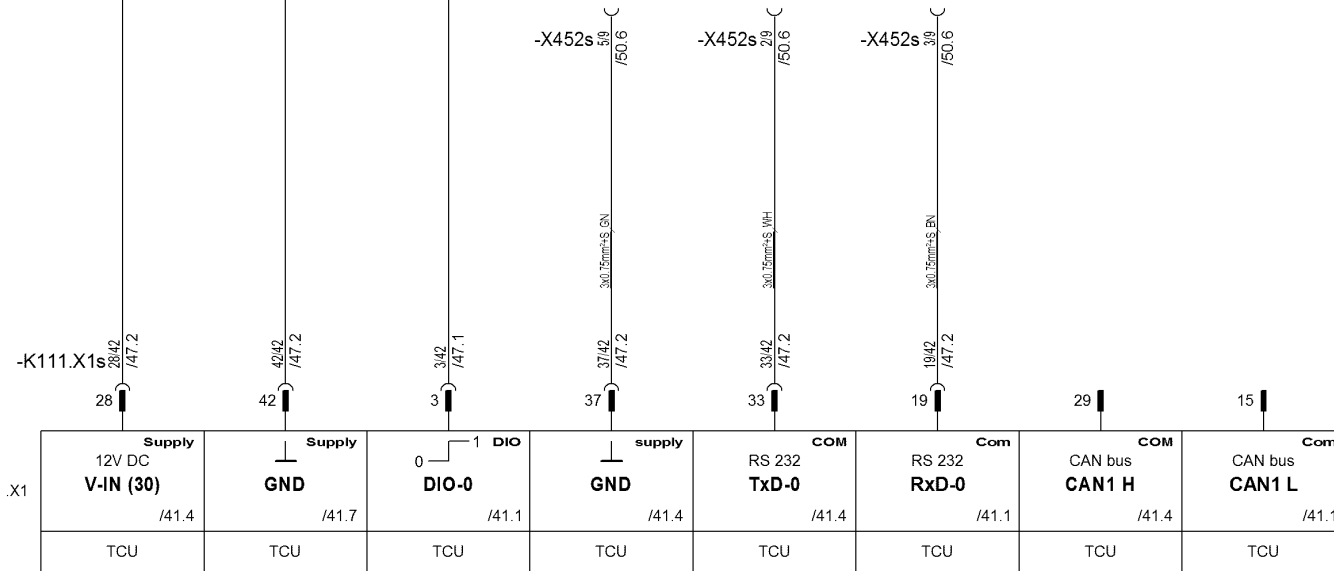
Material No.: 2174533		Revision No.: 02	
Series code: H201	Valid for Serial No.: from 0001 to 4029		
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Sheet Location:			

Option WIFMS Schnittstelle
Option WIFMS Interface

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/22.8 GND -X31CE:1
/22.8 TCU-15 -X15CE:1
/22.8 30 -X30CE:1

-K112.X1s:85 GND /34.1



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date	29.01.2016	date		date	
name	Mar Schedl	name		name	
E - CAE		Document type:		Function group No.:	
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Status:

SF

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Material No.: 2174533

Revision No.: 02

Series code: H201

Valid for Serial No.: from 0001 to 4029

Sheet plant:

Sheet Location:

Option TCU Versorgung
Option TCU supply

Sheet

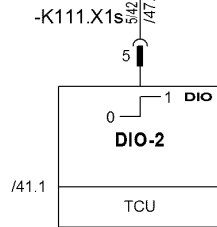
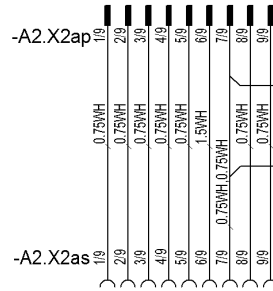
33

of

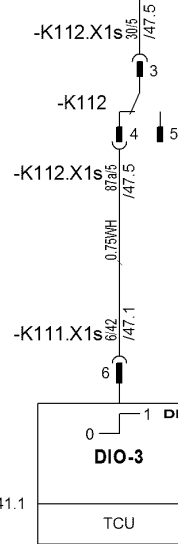
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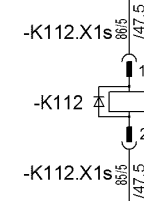
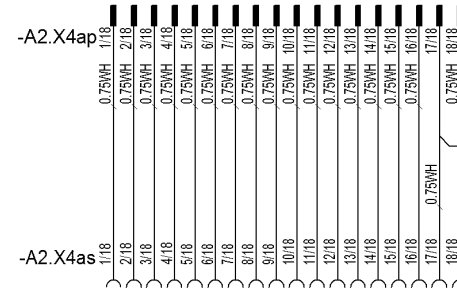
/33.8 GND -X31CE.1



Lichtmaschine D+
alternator D+



Arbeitsindikator
Working indicator



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date	29.01.2016	date		date	
name	Mar Schedl	name		name	
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Status:

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Series code:	Valid for Serial No.:		
H201	from 0001 to 4029		
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Sheet Location:			

Option TCU D+ Arbeitsindikator
Option TCU D+ Working indicator

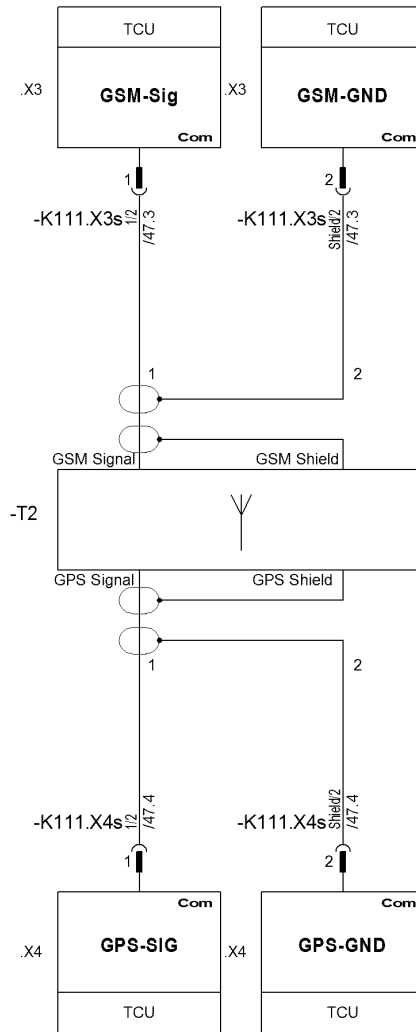
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date	29.01.2016	date		date	
name	Mar Schedl	name		name	
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Status:

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Document No.:

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Material No.:		Revision No.:	
2174533		02	
Series code:	Valid for Serial No.:		
H201	from 0001 to 4029		
Sheet plant:			
Sheet Location:			

Option TCU Antenne
Option TCU Antenna

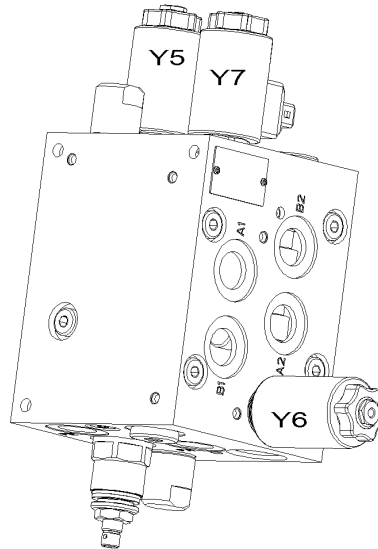
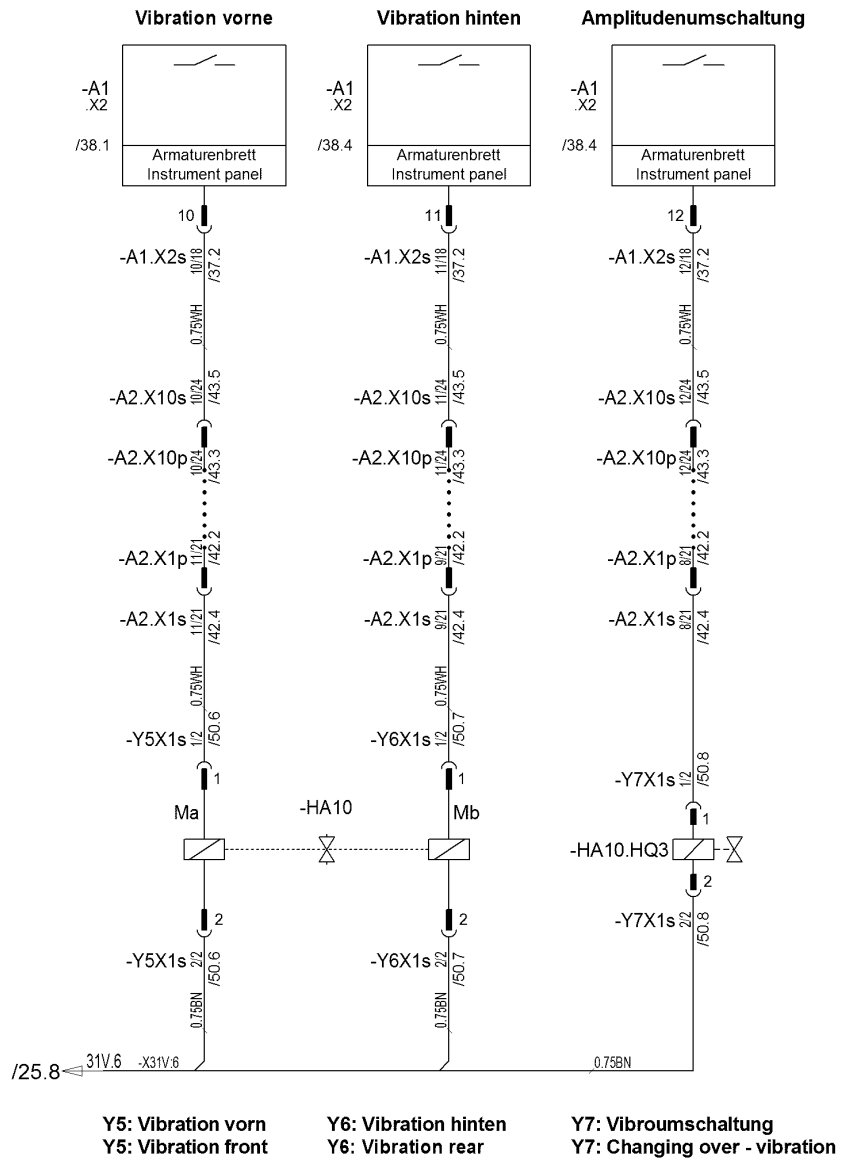
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Sheets



Drawing by:	Approved by:	last change:
date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type:	Function group No.:
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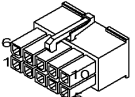
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PF = prototype release	Partial Document No.:
SF = serial release	Version No.:

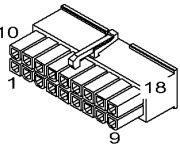


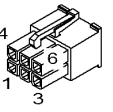
Material No.:	Revision No.:
2174533	02
Series code:	Valid for Serial No.:
H201	from 0001 to 4029
Sheet plant:	
Sheet Location:	

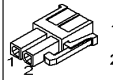
Vibration
Vibration

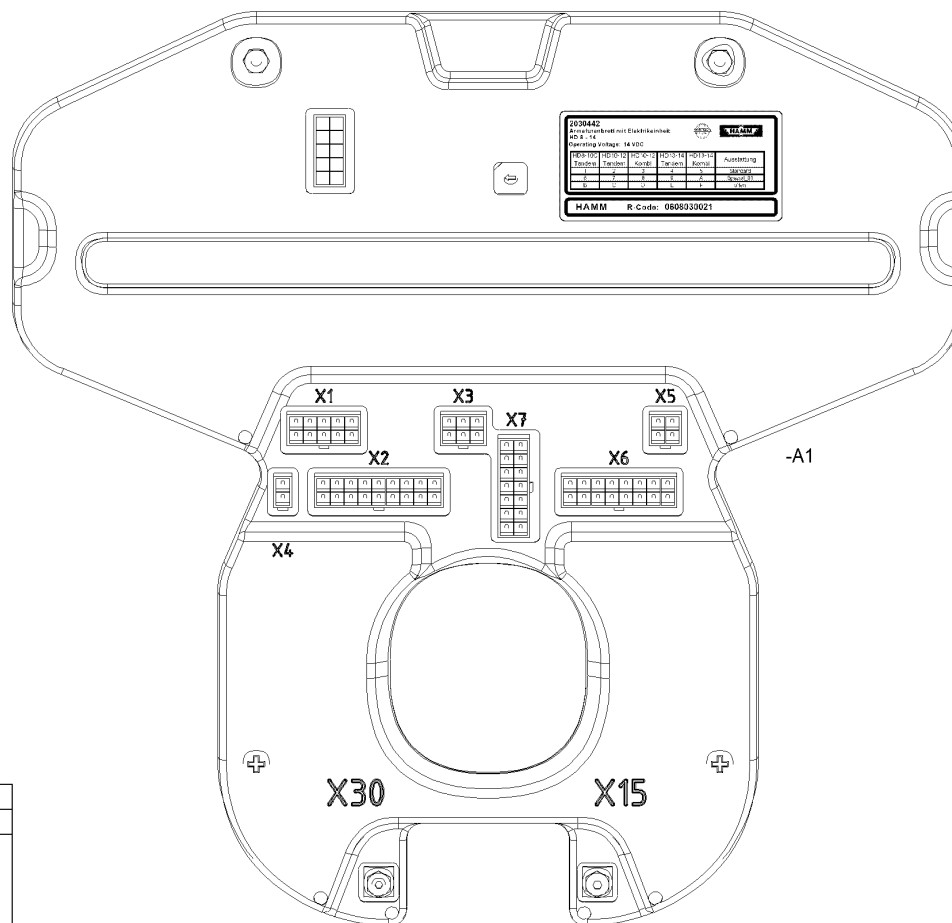
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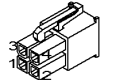
-A1.X1s	
	1: /5.2 2: /4.1 3: /23.4 4: 5: /4.2 6: /5.2 7: /24.3 8: /24.1 9: /24.3 10: /24.2

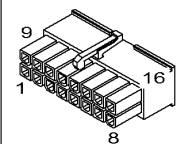
-A1.X2s		
	1: /12.3 2: /24.6 3: /24.5 4: /21.2 5: /19.5 6: /19.3 7: /19.2 8: /18.7 9: /25.4	10: /36.1 11: /36.2 12: /36.3 13: /17.3 14: /17.8 15: /22.4 16: 17: /6.4 18:

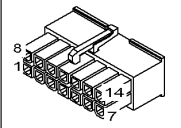
-A1.X3s	
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-A1.X4s	
	1: /27.1 2: /27.2



-A1.X5s	
	1: /20.5 2: /20.5 3: /20.6 4: /20.7

-A1.X6s		
	1: /15.1 2: /15.4 3: /15.3 4: /14.7 5: /15.2 6: /14.6 7: /14.5 8: /14.4	9: /25.1 10: /25.3 11: /14.8 12: /14.2 13: /26.6 14: /14.3 15: 16: /26.7

-A1.X7s		
	1: /11.6 2: /11.3 3: /11.4 4: /11.7 5: /5.4 6: 7:	8: /8.1 9: 10: /7.1 11: /9.1 12: 13: /6.5 14:

-A1.X30	
	1: /12.3

-A1.X15	
	1: /12.2

Drawing by:		Approved by:		last change:	
date	29.01.2016	date		date	
name	Mar Schedl	name		name	
E - CAE		Document type:		Function group No.:	
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Status:		Document No.:	
SF		Partial Document No.:	
AE = changeable PF = prototype release SF = serial release		Version No.:	



Material No.:		Revision No.:	
2174533		02	
Series code:	H201	Valid for Serial No.:	
Sheet plant:		from 0001 to 4029	
Sheet Location:			

Übersicht Armaturenbrett
General arrangement Instrument panel

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Electric	1		2		3		4		5		6		7		8						
	Armaturen Brett Instrument panel																				
-A1																					
1/m																					
Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description		Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description		Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description								
.X1		/5.2	Warntonsummer -		.X2		/36.2	Vibration hinten		.X6		/15.1	MFG GND								
.X1		/4.1	Not-Aus out		.X2		/36.3	Amplitudenumschaltung		.X6		/15.5	MFG KAG ab								
.X1		/23.4	50a Zündschloß		.X2		/17.7	Hubmagnet		.X6		/15.3	MFG KAG auf								
.X1			nc		.X2		/17.3	Starterrelais		.X6		/14.7	Sitzkontakt								
.X1		/4.2	Not-Aus in		.X2		/22.4	D+ Lichtmaschine D+ alternator		.X6		/15.2	MFG Vibrotaste								
.X1		/5.2	Warntonsummer +		.X2			nc		.X6		/14.6	Back-Up								
.X1		/24.2	Fahren out 1		.X2		/6.3	Signalhorn		.X6		/14.5	Verriegelung								
.X1		/24.1	Bremse out 1		.X2			Signalhorn		.X6		/14.4	Automatik								
.X1		/24.3	Fahren in 1		.X3		/10.6	Standlicht VR		.X6		/25.1	Allradsperr								
.X1		/24.2	Bremse in 1		.X3		/10.1	Fahrlicht VR		.X6		/25.2	Allradsperr								
.X2		/12.2	GND		.X3			Fahrlicht VL		.X6		/14.8	Sitzkontakt								
.X2		/24.5	Fahren out		.X3		/10.7	Blinker VR		.X6		/14.2	Sensoren 12V								
.X2		/24.4	Bremse out		.X3		/10.2	Blinker VL		.X6		/14.3	Sensoren GND								
.X2		/21.1	Hydrauliköl		.X3		/10.4	Standlicht VL		.X6		/26.6	Wasserpumpe								
.X2		/19.4	Luftfilter		.X4		/27.1	KAG auf		.X6			Wasserpumpe								
.X2		/19.3	Kühlerwasser		.X4		/27.2	KAG ab		.X6		/26.7	Additivpumpe								
.X2		/19.1	Öldruck		.X5		/20.4	Füllstand 2/3		.X7		/11.5	Blinker HR								
.X2		/18.7	Vorglühanzeige		.X5		/20.5	Füllstand 1/3		.X7		/11.3	Blinker HL								
.X2		/25.3	Ventil Allradsperr		.X5		/20.6	Füllstand 1/10		.X7		/11.4	Standlicht HL								
.X2		/36.1	Vibration vorne		.X5		/20.6	Füllstand 12V		.X7		/11.6	Standlicht HR								
Refer to protection notice ISO 16016																					
Schutzvermerk nach ISO 16016 beachten																					
Drawing by:		Approved by:		last change:		Status:		Document No.:		Material No.:		Revision No.:		Übersicht Armaturen Brett General arrangement Instrument panel		Sheet					
date 29.01.2016		date		date		SF		Partial Document No.:		2174533		02				38					
name Mar.Schedl		name		name						Series code:		Valid for Serial No.:				of					
E - CAE		Document type:		Function group No.:						H201		from 0001 to 4029				59					
		ESP								Version No.:		Sheet plant:				Sheets					
												Sheet Location:									
1		2		3		4		5		6		7		8							
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Electric	1	2	3	4	5	6	7	8					
	WIFMS-Gateway												
-K400													
1/m													
Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description	Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description	Anschluss Pin	Signal signal	Querverweis cross-reference	Beschreibung description		
.X1 :L1	Relay OUT	/28.6	Wegfahrsperre Drive inhibit	.X1 :T3	FIN FIN	/29.5	Motordrehzahl engine speed	.X2 :D2	DOUT DOUT		Vibrationsfrequenz Vibration frequency		
.X1 :L2	Relay IN	/28.5	Wegfahrsperre Drive inhibit	.X1 :W1	FIN FIN		Turbine 2 Turbine 2	.X2 :D3	DOUT DOUT				
.X1 :L3	INH		Startfreigabe Starting release	.X1 :W2	FIN FIN		Turbine 1 Turbine 1	.X2 :E1	+U-Out (30) Supply		Spannungsversorgung (30) Voltage supply (30)		
.X1 :M1	AIN AIN	/30.6	Füllstand Kraftstoff Level fuel	.X1 :W3	FIN FIN	/30.2	Vibrationsfrequenz hinten Vibration frequency rear	.X2 :E2	U-Out (15) Supply		Spannungsversorgung (15) Voltage supply (15)		
.X1 :M2	CAN-L com	/29.4	CAN-L Maschine CAN-L machine	.X1 :X1	DIN DIN	/30.5	Arbeitsindikator Working indicator	.X2 :E3	GND Supply		Masse Ground		
.X1 :M3	CAN-H com	/29.3	CAN-H Maschine CAN-H machine	.X1 :X2	DIN DIN	/30.3	Amplitude, groß Amplitude, large	.X2 :F1	CAN-L COM		CAN-L Tachograph CAN-L Speedometer		
.X1 :N1	AIN AIN		Luftdruck Air pressure	.X1 :X3	DIN DIN	/30.4	Amplitude, klein Amplitude, small	.X2 :F2	CAN-H com		CAN-H Tachograph CAN-H Speedometer		
.X1 :N2	AIN AIN		Temperatur Hydrauliköl temperature Hydraulic oil	.X1 :Y1	UART 1 com			.X2 :F3	GND Supply		Masse Ground		
.X1 :N3	AIN AIN	/30.7	Motortemperatur engine temp.	.X1 :Y2	UART 2 com			.X2 :G1	DIN DIN	/32.2	Startunterbrechung Start interruption		
.X1 :P1	+U (58) Supply		Standlicht Parking light	.X1 :Y3	GND Supply		Masse Ground	.X2 :G2	DOUT DOUT	/32.4	Arbeitsindikator Working indicator		
.X1 :P2	+U (15) Supply		+U Klemme 15 +U Terminal 15	.X2 :A1	U-Out Sensor Supply		+U Drehzahlsensor +U Speed sensor	.X2 :G3	INH	/32.5	Startfreigabe Starting release		
.X1 :P3	GND Supply		Masse Ground	.X2 :A2	GND Supply		Masse Sensor Ground Sensor	.X2 :H1	PWM PWM	/31.5	Motordrehzahl engine speed		
.X1 :R1	+U (30) Supply	/28.2	+U Klemme 30 +U Terminal 30	.X2 :A3	UART 3 com			.X2 :H2	PWM PWM	/32.1	Füllstand Kraftstoff Level fuel		
.X1 :R2	+U (15) Supply	/28.1	+U Klemme 15 +U Terminal 15	.X2 :B1	DOUT DOUT			.X2 :H3	PWM PWM	/32.3	Kraftstoffverbrauch Fuel consumption		
.X1 :R3	GND Supply	/28.3	Masse Ground	.X2 :B2	DOUT DOUT		Fahrgeschwindigkeit inv. Driving speed inv.	.X2 :J1	CAN-L com	/31.7	CAN-L WIFMS		
.X1 :S1	VCC Ref. Supply		VCC Ref. Ext.	.X2 :B3	DOUT DOUT		Fahrgeschwindigkeit Driving speed	.X2 :J2	CAN-H com	/31.6	CAN-H WIFMS		
.X1 :S2	U Ref. +10V Supply		U Ref. ext. +10V	.X2 :C1	DOUT DOUT		Frequenz Amplitude, klein Frequency Amplitude, small	.X2 :J3	PWM PWM	/31.4	Fahrgeschwindigkeit Driving speed		
.X1 :S3	GND Supply		Masse Ground	.X2 :C2	DOUT DOUT		Frequenz Amplitude, groß Frequency Amplitude, large	.X2 :K1	U-Out (30) Supply	/31.1	Spannungsversorgung (30) Voltage supply (30)		
.X1 :T1	FIN FIN	/30.1	Vibrationsfrequenz vorn Vibration frequency front	.X2 :C3	DOUT DOUT			.X2 :K2	U-Out (15) Supply	/31.3	Spannungsversorgung (15) Voltage supply (15)		
.X1 :T2	FIN FIN	/29.6	Fahrgeschwindigkeit Driving speed	.X2 :D1	U-Out (58) Supply		Standlicht Parking light	.X2 :K3	GND Supply	/31.2	Masse Ground		
Drawing by:		Approved by:		last change:		Status:		Material No.:		Revision No.:		Sheet:	
date 29.01.2016		date		date		AE = changable		2174533		02		40	
name Mar.Schedl		name		name		PF = prototype release		Series code:		Valid for Serial No.:		of	
E - CAE		Document type:		Function group No.:		SF = serial release		H201		from 0001 to 4029		59	
ESP								Sheet plant:				Sheets	
Sheet Location:													
1	2	3	4	5	6	7	8						

Refer to protection notice ISO 16016

Schutzvermerk nach ISO 16016 beachten

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Refer to protection notice ISO 16016

Schutzvermerk nach ISO 16016 beachten

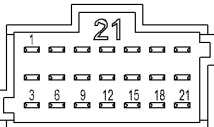
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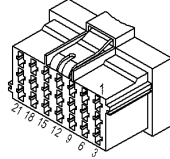
Electric	1		2		3		4		5		6		7		8	
	TCU															
-K111																
1/m																
Anschluss Pin		Signal signal		Querverweis cross-reference		Beschreibung description		Anschluss Pin		Signal signal		Querverweis cross-reference		Beschreibung description		
.X1 :1		CAN 1 term Com						.X1 :21		RxD-1/DTR-0 Com						
.X1 :2		CAN 2 term Com						.X1 :22		K-Line 2 Supply		/33.3				
.X1 :3		DIO-0 DIO		/33.4				.X1 :23		GND Supply						
.X1 :4		DIO-1 DIO						.X1 :24		AIN-1 AIN						
.X1 :5		DIO-2 DIO		/34.2				.X1 :25		AIN-3 AIN						
.X1 :6		DIO-3 DIO		/34.4				.X1 :26		MICN FIN						
.X1 :7		DIO-4 DIO						.X1 :27		SPKN FIN						
.X1 :8		DIO-5 DIO						.X1 :28		V-IN (30) Supply		/33.3				
.X1 :9		DIO-6 DIO						.X1 :29		CAN1 H COM		/33.6				
.X1 :10		DIO-7 DIO						.X1 :30		CAN2 H COM						
.X1 :11		DIO-8 DIO						.X1 :31		GND-ISO supply				/35.3		
.X1 :12		DIO-9 DIO						.X1 :32		RS485A Com				/35.4		
.X1 :13		ON/OFF IN						.X1 :33		TxD-0 COM		/33.5				
.X1 :14		V-OUT (4V5) supply						.X1 :34		TxD-3/RTS-0 COM				/35.4		
.X1 :15		CAN1 L Com		/33.7				.X1 :35		TxD-1/DCD-0 Com						
.X1 :16		CAN2 L Com						.X1 :36		K-Line-1 D-OUT						
.X1 :17		V-ISO (4V5) Supply						.X1 :37		GND supply		/33.4				
.X1 :18		RS485B Com						.X1 :38		AIN-0 AIN						
.X1 :19		RxD-0 Com		/33.6				.X1 :39		AIN-2 AIN						
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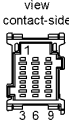
Refer to protection notice ISO 16016

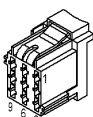
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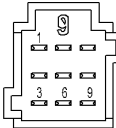
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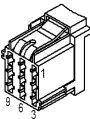
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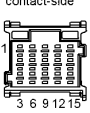
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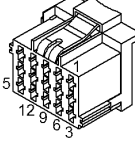
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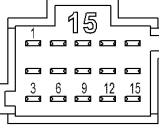
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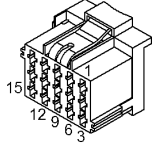
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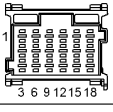
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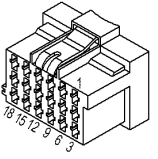
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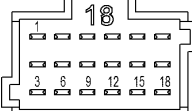
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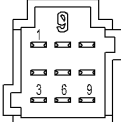


Material No.: 2174533		Revision No.: 02	
Series code: H201	Valid for Serial No.: from 0001 to 4029		
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Übersicht Steckerbelegung
General arrangement Plug occupancy

Sheet
42
of
59
Sheets

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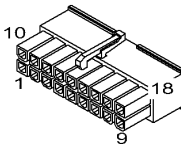
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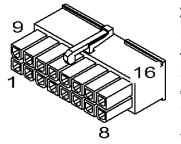
Material No.:		Revision No.:	
2174533		02	
Series code:		Valid for Serial No.:	
H201		from 0001 to 4029	
Sheet plant:			
Sheet Location:			

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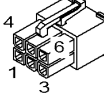
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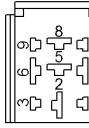
-A2.X11s			
	1:	/20.5	10: /14.6
	2:	/20.5	11: /14.5
	3:	/20.6	12: /14.4
	4:	/20.7	13: /25.3
	5:	/15.1	14: /25.1
	6:	/15.3	15: /14.8
	7:	/15.4	16: /14.2
	8:	/14.7	17: /14.3
	9:	/15.2	18:

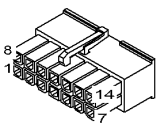
-A2.X12p			
	1:	/11.6	9: /6.5
	2:	/11.3	10: /26.6
	3:	/11.4	11: /26.7
	4:	/11.7	12:
	5:	/5.4	13:
	6:	/8.1	14:
	7:	/7.1	15:
	8:	/9.1	16:

-A2.X12s			
	1:	/11.6	9: /6.5
	2:	/11.3	10: /26.6
	3:	/11.4	11: /26.7
	4:	/11.7	12:
	5:	/5.4	13:
	6:	/8.1	14:
	7:	/7.1	15:
	8:	/9.1	16:

-A2.X13p			
	1:	/29.2	
	2:	/29.2	
	3:	/29.2	
	4:	/29.3	
	5:	/29.4	
	6:		

-A2.X13s			
	1:		
	2:		
	3:		
	4:	/29.3	
	5:	/29.4	
	6:		

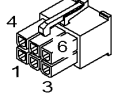
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	1:	/15.7	
	2:	/15.8	
	3:	/15.5	
	4:	/15.6	
	5:	/15.5	
	6:	/15.6	
	7:	/15.7	
	8:	/15.7	
	9:	/15.8	

		-A6.X1s	
	1:	/13.3	8: /13.4
	2:	/13.3	9: /13.4
	3:	/13.3	10: /13.4
	4:	/13.3	11: /13.5
	5:	/13.4	12: /13.5
	6:	/13.4	13: /13.5
	7:	/13.4	14: /13.5

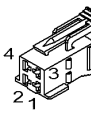
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	2:	/13.7	

-A6.X3s			
		1: /13.3	
		2: /13.3	
		3: /13.3	
		4: /13.3	

-A6.X4s			
		1: /13.4	
		2: /13.4	
		3: /13.4	
		4: /13.4	

-A6.X5s			
	1:	/13.5	
	2:	/13.5	
	3:	/13.5	
	4:	/13.5	
	5:	/13.5	
	6:	/13.5	

-A6.X6s			
	1:	/13.6	
	2:	/13.6	
	3:	/13.6	
	4:		

-A6.X7s			
	1:	/13.6	
	2:	/13.6	
	3:	/13.6	
	4:	/13.7	

-B9.X1	
	1: /20.5 2: /20.5 3: /20.5 4: /20.5

-E2.X1s			
view cable-side		56A:	
		56B: /10.4	31: /10.4

-E2.X2s	
	1: /10.4

-E2.X3s	
	1: /10.5

		-E3Xs	
	1:	/10.2	
	2:	/10.3	

Drawing by:		Approved by:		last change:	
date 29.01.2016		date		date	
name Mar Schedl		name		name	
E - CAE		Document type:		Function group No.:	
		ESP			

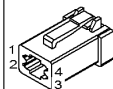
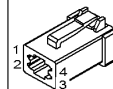
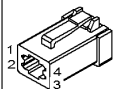
Status:		Document No.:	
SF		Partial Document No.:	
AE = changable		Version No.:	
PF = prototype release			
SF = serial release			



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-E5.X1s view cable-side  56A: 56B: /10.6 31: /10.7	-E5.X2s  1: /10.7	-E5.X3s  1: /10.7	-E6Xs  1: /10.8 2: /10.8	-E7.X1s  1: /11.3 2: /11.4 3: /11.4 4:	-E7a.X1s  1: /11.2	-E7a.X2s  1: /11.2	
-E7Xap  1: /11.2 2: /11.2	-E7Xas  1: /11.2 2: /11.2	-E9.X1s  1: 2: 3: /9.3 4: /9.3	-E10.X1s  1: /11.6 2: /11.6 3: /11.7 4:	-E12.X1s  1: 2: 3: /9.4 4: /9.4	-E13X1b  1: /7.4 2: /7.4	-E13X2b  1: /7.4 2: /7.4	
-E14X1b  1: /7.5 2: /7.5	-E14X2b  1: /7.6 2: /7.6	-E15.1Xp  1: /8.6 2: /8.6	-E15.1Xs  1: /8.6 2: /8.6	-E15.2Xp  1: /8.7 2: /8.7	-E15.2Xs  1: /8.7 2: /8.7	-E15Xp  1: /8.6 2: /8.6	-E15Xs  1: /8.6 2: /8.6
-E16.1Xp  1: /8.4 2: /8.4	-E16.1Xs  1: /8.4 2: /8.4	-E16.2Xp  1: /8.5 2: /8.5	-E16.2Xs  1: /8.5 2: /8.5	-E16Xp  1: /8.4 2: /8.4	-E16Xs  1: /8.4 2: /8.4	-G2.X2s  1: /22.2 2: /22.2	-H2Xb  1: /5.4 2: /5.4

Drawing by:	Approved by:	last change:
date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type:	Function group No.:
	ESP	

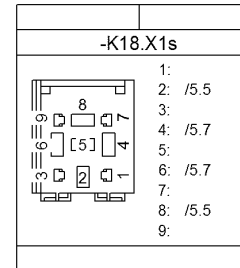
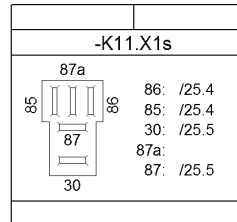
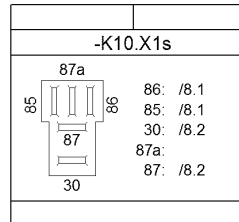
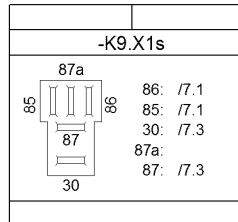
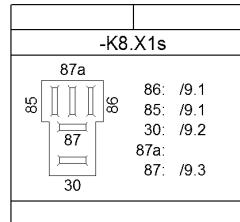
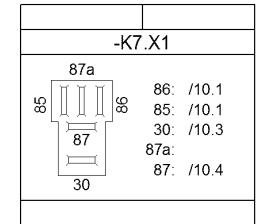
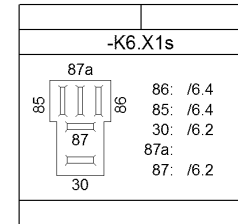
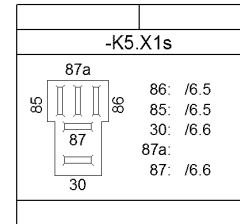
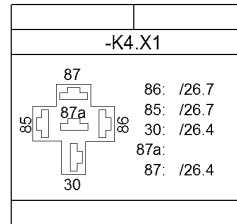
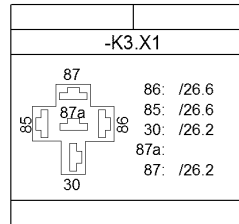
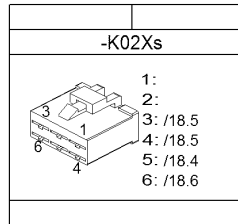
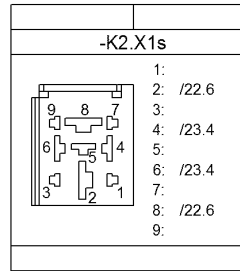
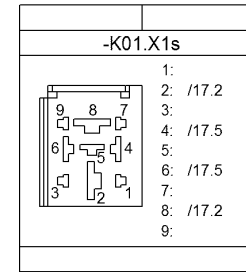
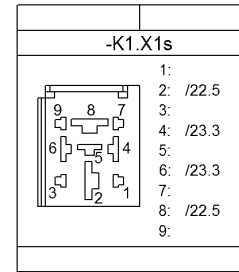
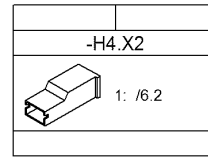
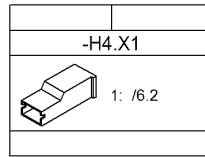
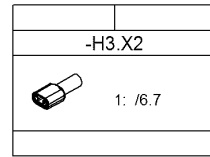
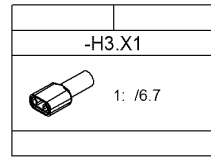
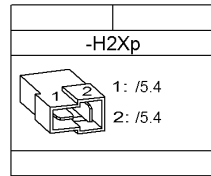
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AE = changeable	
PF = prototype release	Partial Document No.:
SF = serial release	Version No.:



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date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type:	Function group No.:
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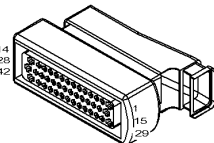
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Material No.:	Revision No.:
2174533	02
Series code:	Valid for Serial No.:
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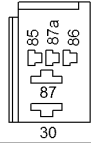
Übersicht Steckerbelegung
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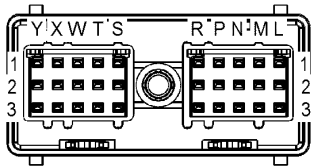
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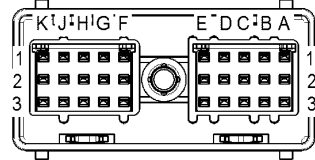
-K111.X1s			
			
15:	29:		
16:	30:		
17:	31:		
18:	32:		
19: /33.6	33: /33.5		
20:	34:		
21:	35:		
22:	36:		
23:	37: /33.4		
24:	38:		
25:	39:		
26:	40:		
27:	41:		
28: /33.2	42: /33.3		

-K111.X3s	
VIOLETT	
	1: /35.4
	Shield: /35.5

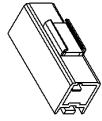
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BLAU	
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	Shield: /35.5

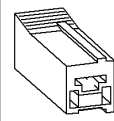
-K112.X1s	
	
86: /34.7	
85: /34.7	
30: /34.4	
87a: /34.4	
87:	

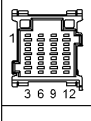
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view: contact-side		
		
L1: /28.7	P2:	T3: /29.5
L2: /28.6	P3:	W1:
L3:	R1: /28.3	W2:
M1: /30.6	R2: /28.2	W3: /30.3
M2: /29.4	R3: /28.4	X1: /30.5
M3: /29.3	S1:	X2: /30.4
N1:	S2:	X3: /30.5
N2:	S3:	Y1:
N3: /30.7	T1: /30.2	Y2:
P1:	T2: /29.6	Y3:

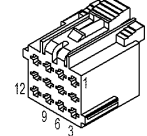
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view: contact-side	
	
A1:	D2:
A2:	D3:
A3:	E1:
B1:	E2:
B2:	E3:
B3:	F1:
C1:	F2:
C2:	F3:
C3:	G1: /32.3
D1:	G2: /32.4
	H1: /31.5
	H2: /32.2
	H3: /32.3
	J1: /31.7
	J2: /31.6
	J3: /31.4
	K1: /31.1
	K2: /31.3
	K3: /31.2

-M1B1Xs	
	
1: /29.7	
2: /29.7	
3: /29.8	

-M1X1p	
	
1: /18.2	

-M1X1s	
	
1: /18.2	

-M1X2p	
view contact-side	
	
1: /19.3	7: /20.2
2: /19.2	8: /22.3
3: /19.5	9: /17.5
4: /22.3	10:
5: /17.5	11: /17.7
6: /20.2	12:

-M1X2s	
	
1: /19.3	
2: /19.2	
3: /19.5	
4: /22.3	
5: /17.5	
6: /20.2	
7: /20.2	
8: /22.3	
9: /17.5	
10:	
11: /17.7	
12:	

Drawing by:	Approved by:	last change:
date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type:	Function group No.:
	ESP	

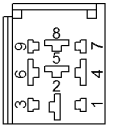
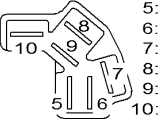
Status:	Document No.:
AE = changable	
PF = prototype release	Partial Document No.:
SF = serial release	
	Version No.:



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1	2	3	4	5	6	7	8
-M2Xs  1: /26.2 2: /26.2	-M3Xs  1: /26.4 2: /26.4		-M4X1s  1: /20.2 2: /20.2	-M4XBp  1: /20.2 2: /20.2	-M4XBs  1: /20.2 2: /20.2	-P1.X1  1: 2: 3: 4: /5.2 5: 6: /5.2 7: 8: 9:	
-S1.X1  1: /23.2 2: 3: /23.2 4: /23.2	-S1.X2  5: 6: /23.3 7: /23.3 8: /23.3 9: /23.3 10:	-S1X3p  1: /23.3	-S1X3s  1: /23.3	-S5.X1  1: /21.2	-S6.X1  1: /19.3 2:	-S7.X1  1: /19.2	
-S8.X1s  1: /19.5 2: /19.5	-S9.X1  1: /26.3	-S9.X2  1: /26.3	-S10.X1a  1: /25.1	-S10.X1b  1: /25.1	-S13LXp BLUE  1: /13.2 2: /13.2 3: /13.2	-S13LXs BLUE  1: /13.2 2: /13.2 3: /13.2	-S13RXp GREEN  1: /13.4 2: /13.3 3: /13.4

Drawing by:	Approved by:	last change:
date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type:	Function group No.:
	ESP	

Status:

AE = changeable

PF = prototype release

SF = serial release

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2174533	02
Series code:	Valid for Serial No.:
H201	from 0001 to 4029
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General arrangement Plug occupancy

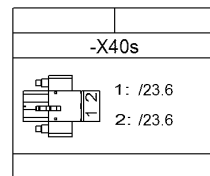
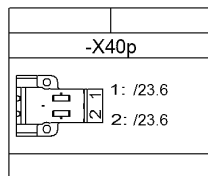
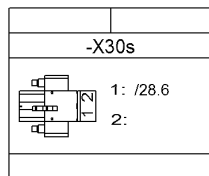
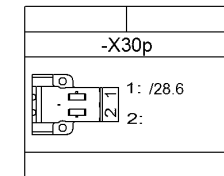
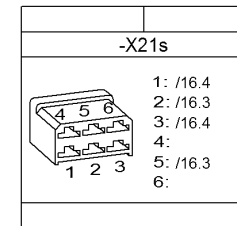
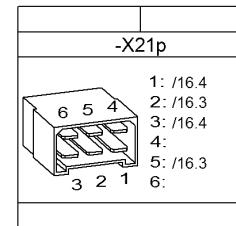
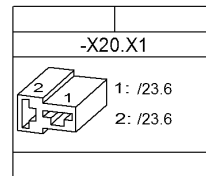
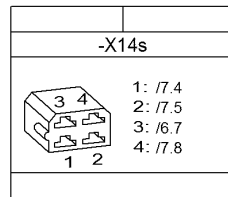
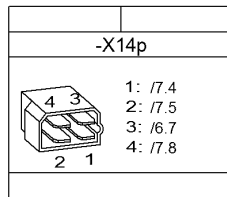
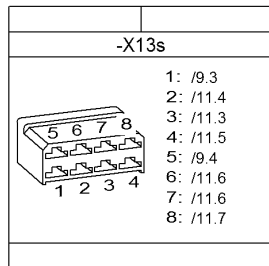
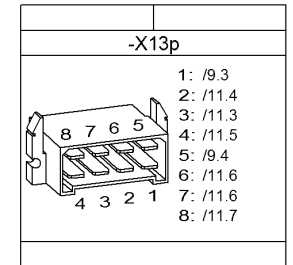
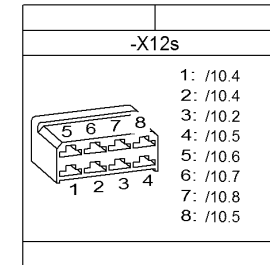
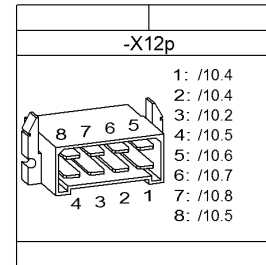
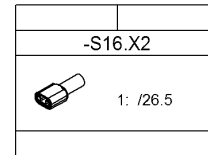
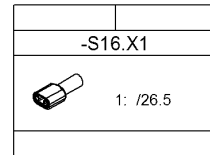
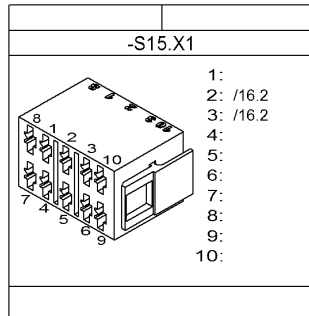
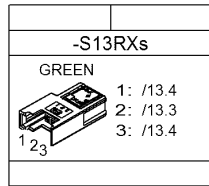
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date	29.01.2016	date		date	
name	Mar Schedl	name		name	
E - CAE		Document type:		Function group No.:	
		ESP			

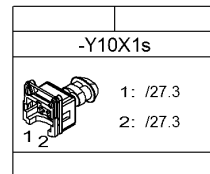
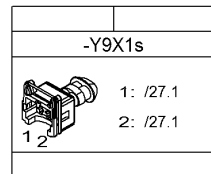
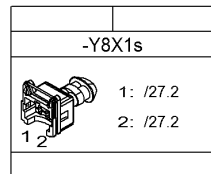
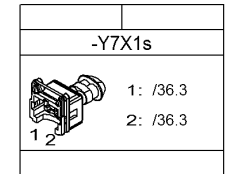
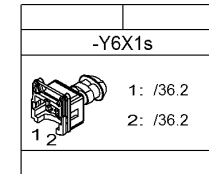
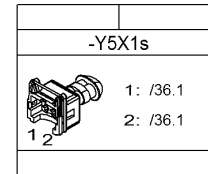
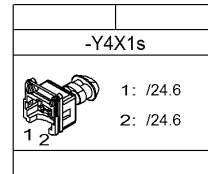
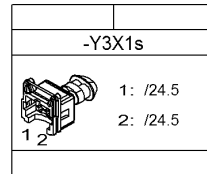
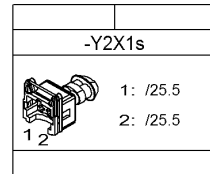
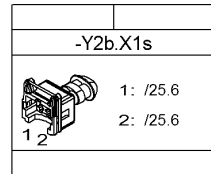
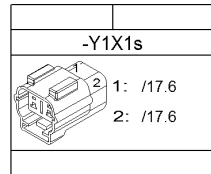
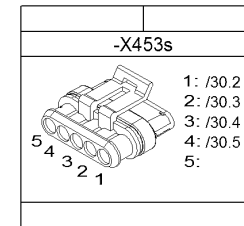
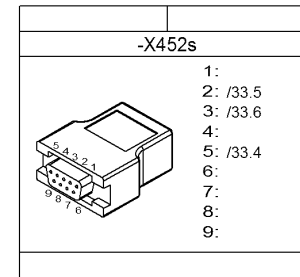
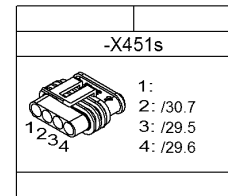
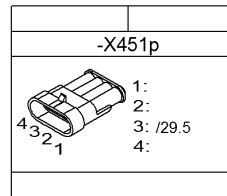
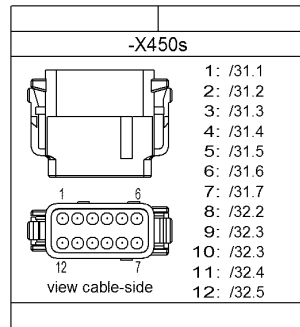
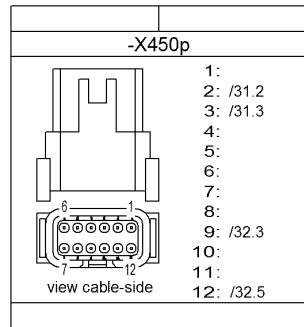
Status:		Document No.:
SF	AE = changable	Partial Document No.:
	PF = prototype release	
	SF = serial release	
		Version No.:



Material No.: 2174533		Revision No.: 02	
Series code: H201	Valid for Serial No.: from 0001 to 4029		
Sheet plant: Sheet Location:			

Übersicht Steckerbelegung
General arrangement Plug occupancy

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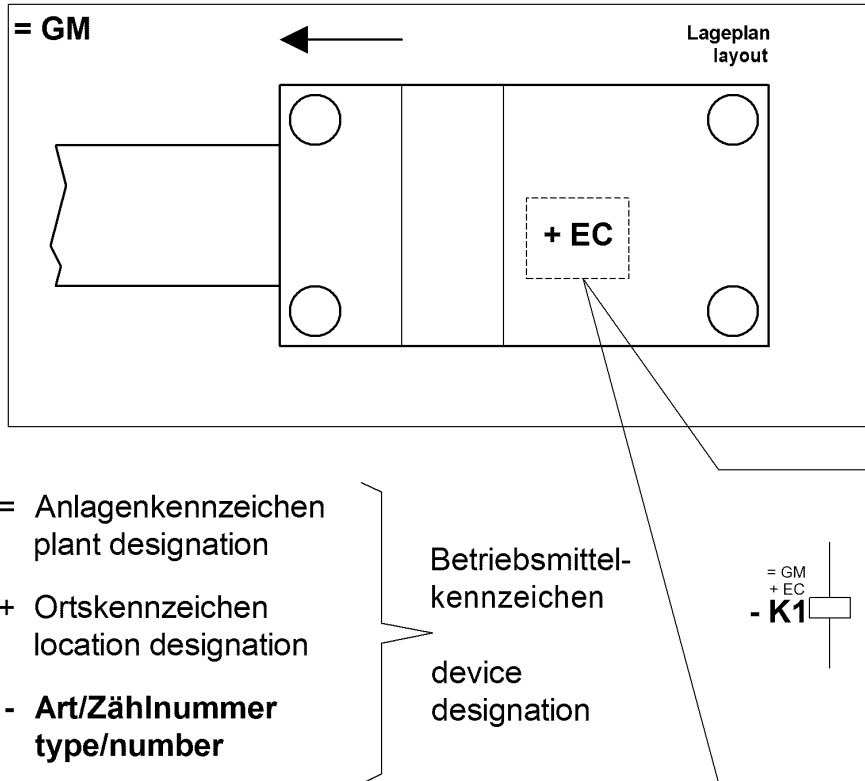


Material No.:	Revision No.:
2174533	02
Series code:	Valid for Serial No.:
H201	from 0001 to 4029
Sheet plant:	
Sheet Location:	

Übersicht Steckerbelegung
General arrangement Plug occupancy

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Aufbau Betriebsmittelkennzeichen / device designation configuration



- Minimales Betriebsmittelkennzeichen: Nur Art/Zählnummer
minimal device designation: type/number only
- Maximales Betriebsmittelkennzeichen: Anlagenkennzeichen, Ortskennzeichen und Art/Zählnummer
maximum device designation: plant designation, location designation and type/number
- **Anlagenkennzeichen, Ortskennzeichen und Art/Zählnummer sind nur IN KOMBINATION eindeutig!**
plant designation, location designation and type/number are only explicitly IN COMBINATION!

Bezeichnungserklärungen / designation explanations

Stecker zu Stecker Verbindung / connector to connector connection



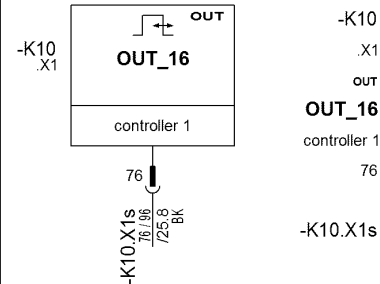
Deutsch

p = Stiftkontakt
s = Buchsenkontakt
Kontakt 1 von 3 Kontakten
Steckermaster auf Blatt 24,
Strompfad 7
Gehäusefarbe Stecker = Grün

English

p = pin contact
s = socket contact
contact 1 of 3 contacts
connector master on sheet 24,
current path 7
connector housing colour = green

Gerät zu Stecker Verbindung / device to connector connection



-K10
.X1
OUT
controller 1
76

Art/Zählnummer Gerät
Anschlussstecker X1 am Gerät
Schnittstellentyp
Schnittstellenname
Gerätename
Kontakt des Anschlusssteckers

type/number device
connector plug X1 on device
interface type
interface name
device name
contact of connector plug

-K10.X1s

Art/Zählnummer Gegenstecker
(Stecker erbt zusätzlich zur
eigenen Art/Zählnummer, die
Art/Zählnummer des Gerätes
an dem er angeschlossen ist.
Dadurch ist eine eindeutige
Zuordnung von Gerät und
zugehörigem Stecker möglich)

type/number mating connector
(connector inherits additionally to
its own type/number, the
type/number of the device it is
connected to.
Thus permits a clear allocation of
device and appendant mating
connector)

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	ESP	

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Material No.:	Revision No.:
2174533	02
Series code:	Valid for Serial No.:
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Erklärung Aufbau Betriebsmittelkennzeichen
Explanation device designation layout

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Gerätekennbuchstaben, elektrisch (beispielhaft) /
device code letter, electric (exemplified)

<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>	<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>
- A	Bauteile mit zwei oder mehr Aufgaben Dieselmotor Radio	devices with two or more tasks diesel engine radio	- P	Hupe Leuchtdiode Signallampe Fahrtenschreiber anzeigendes Messgerät	horn light emitting diode signal lamp tachograph displaying measuring instrument
- B	Sensor Näherungsschalter Messwandler	sensor proximity switch measuring transformer	- R	Diode Widerstand	diode resistor
- C	Kondensator	capacitor	- S	Schalter	switch
- E	Heizung Lampe Leuchte	heating lamp light	- T	Gleichrichter Verstärker Transformator Frequenzwandler	rectifier amplifier transformer frequency converter
- F	Sicherung Leitungsschutzschalter Motorschutzschalter	fuse circuit breaker motor protection switch	- W	Kabel Elektrische Leitung Sammelschiene	cable wire bus bar
- G	Batterie Generator	battery generator	- X	Klemme Klemmenleiste Steckdose	terminal terminal strip outlet
- K	Relais Schütz Regler Prozessrechner SPS-Steuerung	relay contactor controller process computer programmable logic controller (PLC)			
- M	Elektromotor Betätigungsspule	electric motor coil			

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Status:

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Document No.:

Partial Document No.:

Version No.:



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2174533	02
Series code:	Valid for Serial No.:
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Erklärung Gerätekennbuchstaben, elektrisch
Explanation device code letter, electric

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Gerätekennbuchstaben, hydraulisch (beispielhaft) / device code letter, hydraulic (exemplified)		
<u>Gerätekennbuchstabe / device code letter</u>	<u>Deutsch</u>	<u>English</u>
- HA	Ventilblock	valve-block
- HG	Hydraulikpumpe	hydraulic pump
- HK	Mengenteiler Prioritätsventil Stromregelventil hydraulisch	flow divider priority valve hydraulic flow control valve
- HM	Hydraulikmotor Hydraulikzylinder	hydraulic motor hydraulic cylinder
- HQ	Bremsventil Kugelhahn Lenkeinheit Wegeventil	braking valve ball valve steering unit direction control valve
- HV	Hydraulikfilter	hydraulic filter
- Ma	Ventil Magnetspule a	valve coil a
- Mb	Ventil Magnetspule b	valve coil b

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date 29.01.2016	date	date
name Mar Schedl	name	name
E - CAE	Document type: ESP	Function group No.:

Status:

SF

AE = changable
PF = prototype release
SF = serial release

Document No.:

Partial Document No.:

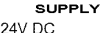
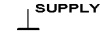
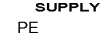
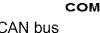
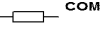
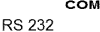
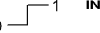
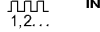
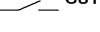
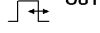
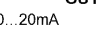
Version No.:



Material No.: 2174533		Revision No.: 02
Series code: H201	Valid for Serial No.: from 0001 to 4029	
Sheet plant: Sheet Location:		

Erklärung Gerätekennbuchstaben, hydraulisch
Explanation device code letter, hydraulic

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Symbolerklärungen * / symbol explanations *			
Symbol / symbol	Bedeutung / standing	Symbol / symbol	Bedeutung / standing
 SUPPLY 24V DC	Spannungsversorgung power supply	 OUT	Rechteckgenerator square-wave generator
 SUPPLY	Masse ground	 ECU	Anschluss Motorsteuergerät connection to engine control unit
 SUPPLY PE	Schutzleiter protection earth	*Standardsymbole sind von DIN EN 60671 abgeleitet Standard symbols are derived from DIN EN 60617	
 COM CAN bus	CAN Busleitung CAN bus line		
 COM	Abschlusswiderstand terminating resistor		
 COM RS 232	RS 232 Schnittstellenleitung RS 232 interface circuit		
 0 1 IN	Digitaleingang (allgemein) digital input (in general)		
 IN	Pulseingang pulse input		
 1,2... IN	Zählereingang counter input		
 IN	Spannungseingang voltage input		
 mA IN	Stromeingang current input		
 Ω IN	Widerstandseingang resistance input		
 Hz IN	Frequenzeingang frequency input		
 OUT	Digitalausgang digital output		
 OUT	Pulsweitenmodulationsausgang pulse width modulation output		
 0...20mA OUT	analoge Stromquelle analogue current supply		

Linienformate / line formats			Farbbezeichnungen / colour designations		
<u>Linienart / line type</u>	<u>Linienstärke / Grafik / line thickness / graphic</u>	<u>Bedeutung / standing</u>	<u>Abkürzungen Farbbezeichnungen / colour abbreviations</u>	<u>Deutsch</u>	<u>English</u>
Volllinie / solid line	0,25mm	Standard / standard	BU	blau	blue
			BN	braun	brown
Strichpunktlinie / dash-dotted line	0,25mm	PE (Schutzerde) / PE (protecting earth)	YE	gelb	yellow
			GN	grün	green
Strichlinie / dashed line	0,25mm	Bauteilumrandung, bzw. Zusammengehörigkeit / component border, togetherness	GY	grau	grey
			OG	orange	orange
Strichlinie / dashed line	0,25mm	Optionen / options	PK	rosa	pink
			RD	rot	red
Punktlinie / dotted line	0,75mm	Leiterbahnverbindungen einer Platine (nicht als Drahtleitung ausgeführte Verbindung) / conductor line of a edge board	BK	schwarz	black
			TQ	türkis	turquoise
			VT	violett	violet
			WH	weiss	white

Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet
-A1	/38.1	-A2.X9ap	/43.5	-E1	/16.3
-A1.X1s	/37.1	-A2.X9as	/43.6	-E2	/10.3
-A1.X2s	/37.2	-A2.X9s	/43.6	-E2.X1s	/44.4
-A1.X3s	/37.1	-A2.X10ap	/43.8	-E2.X2s	/44.5
-A1.X4s	/37.2	-A2.X10as	/43.1	-E2.X3s	/44.6
-A1.X5s	/37.8	-A2.X10p	/43.2	-E3	/10.2
-A1.X6s	/37.7	-A2.X10s	/43.5	-E3Xs	/44.7
-A1.X7s	/37.7	-A2.X11p	/43.7	-E5	/10.6
-A1.X15	/37.5	-A2.X11s	/44.1	-E5.X1s	/45.1
-A1.X30	/37.4	-A2.X12p	/44.3	-E5.X2s	/45.2
-A2.X1p	/42.1	-A2.X12s	/44.5	-E5.X3s	/45.3
-A2.X1s	/42.4	-A2.X13p	/44.7	-E6	/10.8
-A2.X2p	/42.8	-A5	/15.5	-E6Xs	/45.4
-A2.X2s	/42.1	-A5.X1	/44.1	-E7	/11.3
-A2.X3ap	/42.4	-A6	/13.3	-E7.X1s	/45.5
-A2.X3as	/42.3	-A6.X1s	/44.3	-E7a	/11.2
-A2.X3p	/42.6	-A6.X2s	/44.4	-E7a.X1s	/45.6
-A2.X3s	/42.1	-A6.X3s	/44.5	-E7a.X2s	/45.7
-A2.X4p	/42.7	-A6.X4s	/44.6	-E7Xap	/45.1
-A2.X4s	/43.1	-A6.X5s	/44.7	-E7Xas	/45.2
-A2.X5p	/43.3	-A6.X6s	/44.1	-E9	/9.2
-A2.X5s	/43.4	-A6.X7s	/44.2	-E9.X1s	/45.3
-A2.X6p	/43.5	-B1	/13.5	-E10	/11.6
-A2.X6s	/43.7	-B2	/13.6	-E10.X1s	/45.4
-A2.X7p	/43.7	-B3	/13.6	-E12	/9.4
-A2.X7s	/43.1	-B9	/20.5	-E12.X1s	/45.5
-A2.X8p	/43.2	-B9.X1	/44.3	-E13.1	/7.4
-A2.X8s	/43.4	-C1	/22.7	-E13.2	/7.4

Drawing by:	Approved by:	last change:	Status:	Document No.:	Material No.:	Revision No.:	Betriebsmittelliste device list	Sheet 56 of 59 Sheets
date 29.01.2016	date	date	AE = changeable		2174533	02		
name Mar Schedl	name	name	PF = prototype release	Partial Document No.:	Series code:	Valid for Serial No.:		
E - CAE	Document type:	Function group No.:	SF = serial release	Version No.:	H201	from 0001 to 4029		
ESP					Sheet plant:			
					Sheet Location:			

Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet	Betriebsmittelkennzeichen / Device designation	Blatt / Sheet
-E13X1b	/45.6	-F2X1	/18.3	-F16X1	/26.2
-E13X2b	/45.7	-F3	/8.2	-F17	/6.7
-E14.1	/7.5	-F3X1	/8.2	-F17X1	/6.7
-E14.2	/7.6	-F4	/10.3	-F17X15	/6.7
-E14X1b	/45.1	-F4X1	/10.3	-F17X30	/6.7
-E14X2b	/45.2	-F5	/10.6	-F18X1	/5.5
-E15.1	/8.6	-F5X1	/10.6	-G1	/22.1
-E15.1Xp	/45.3	-F6	/9.2	-G2	/22.2
-E15.1Xs	/45.4	-F6X1	/9.2	-G2.X2s	/45.7
-E15.2	/8.7	-F7	/7.3	-H2	/5.4
-E15.2Xp	/45.5	-F7X1	/7.3	-H2Xb	/45.8
-E15.2Xs	/45.6	-F8	/18.3	-H2Xp	/46.1
-E15Xp	/45.7	-F8X1	/18.3	-H3.X1	/46.2
-E15Xs	/45.8	-F9	/15.8	-H3.X2	/46.3
-E16.1	/8.4	-F9X1	/15.8	-H4	/6.2
-E16.1Xp	/45.1	-F10	/26.3	-H4.X1	/46.4
-E16.1Xs	/45.2	-F10X1	/26.3	-H4.X2	/46.5
-E16.2	/8.5	-F11	/16.2	-HA1	/25.5
-E16.2Xp	/45.3	-F11X1	/16.2	-HA10	/36.1
-E16.2Xs	/45.4	-F12	/28.2	-HA50	/27.1
-E16Xp	/45.5	-F12X1	/28.2	-HA51	/27.3
-E16Xs	/45.6	-F13	/23.6	-HQ1	/24.5
-F01	/22.3	-F13X1	/23.6	-HQ7	/24.6
-F1_A	/25.5	-F14	/6.2	-K01	/17.5
-F1X_A	/25.4	-F14X1	/6.2	-K1	/23.2
-F1X_B	/25.4	-F15	/26.4	-K01.X1s	/46.1
-F1X_Com	/25.4	-F15X1	/26.4	-K1.X1s	/46.7
-F2	/18.3	-F16	/26.2	-K02	/18.4

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-K02	/18.5	-M1X1p	/47.4	-S5	/21.2
-K02	/18.5	-M1X1s	/47.5	-S5.X1	/48.4
-K02	/18.6	-M1X2p	/47.6	-S6	/19.3
-K2	/23.4	-M1X2s	/47.7	-S6.X1	/48.5
-K2.X1s	/46.2	-M2	/26.2	-S7	/19.2
-K02Xs	/46.3	-M2Xs	/48.1	-S7.X1	/48.6
-K03	/18.5	-M3	/26.4	-S8	/19.4
-K3	/26.6	-M3Xs	/48.2	-S8.X1s	/48.7
-K3.X1	/46.4	-M4	/20.2	-S9	/26.3
-K4	/26.7	-M4.X1s	/48.3	-S9.X1	/48.1
-K4.X1	/46.6	-P1	/5.2	-S9.X2	/48.2
-K5	/6.5	-P1.X1	/46.6	-S10	/25.1
-K5.X1s	/46.7	-P2	/6.7	-S10.X1a	/48.3
-K6	/6.3	-Q1	/22.1	-S10.X1b	/48.4
-K6.X1s	/46.8	-R1.1	/18.1	-S11	/16.4
-K7	/10.1	-R1.2	/18.2	-S12L	/13.1
-K7.X1	/46.1	-R1.3	/18.2	-S13L	/13.2
-K8	/9.1	-R2	/17.3	-S13LXp	/48.5
-K8.X1s	/46.2	-R3	/22.6	-S13LXs	/48.6
-K9	/7.1	-S1	/23.2	-S13R	/13.4
-K9.X1s	/46.3	-S1.X1	/48.7	-S13RXp	/48.7
-K10	/8.1	-S1.X2	/48.1	-S13RXs	/48.8
-K10.X1s	/46.4	-S1X3p	/48.2	-S14R	/13.3
-K11.X1s	/46.6	-S1X3s	/48.3	-S15	/16.2
-K18	/5.5	-S2	/4.1	-S15.X1	/49.1
-K18	/5.6	-S2.1	/4.1	-S16	/26.5
-K18.X1s	/46.7	-S2.2	/24.1	-S16.X1	/49.2
-M1	/17.1	-S2.3	/24.3	-S16.X2	/49.3

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-V1	/23.3	-X31V	/22.4		
-V2	/23.4	-X31V	/25.5		
-V3	/26.6	-Y1	/17.6		
-V4	/26.8	-Y1X1s	/50.1		
-W1	/22.2	-Y2X1s	/50.3		
-X12p	/49.5	-Y3X1s	/50.4		
-X12s	/49.6	-Y4X1s	/50.5		
-X13p	/49.7	-Y5X1s	/50.6		
-X13s	/49.1	-Y6X1s	/50.7		
-X14p	/49.2	-Y8X1s	/50.1		
-X14s	/49.3	-Y9X1s	/50.2		
-X15CE	/22.7	-Y10X1s	/50.3		
-X19CE	/18.2				
-X20	/23.6				
-X20.X1	/49.4				
-X21p	/49.5				
-X21s	/49.7				
-X30CE	/22.6				
-X31CE	/22.6				
-X31H	/5.4				
-X31H	/7.8				
-X31H	/13.7				
-X31H	/22.5				
-X31M	/22.3				
-X31V	/6.2				
-X31V	/10.5				
-X31V	/22.1				
-X31V	/22.2				

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