

Circuit diagram

HD+ 120-140

valid from serial-No. :

H1840016

and H1840007 ; H1840012

Revision	Modification	valid from serial-No.
01	BMK Schaltplan berichtigt	

Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten

	Änderung	Datum	Name		Datum	Name
a				gez.	29.06.2006	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



Revision management

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

Blatt

1

84

Bl.

Plotdatum: 30.01.2015

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a			gez.	18.05.2010	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



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21	Voltage supply Supply system
22	Voltage supply Supply system Ignition switch
23	Emergency control
24	Voltage supply EMR-3
25	Diagnostic interface Diesel engine
26	Diesel engine Cold start equipment Common Rail
27	Diesel engine 2 Common Rail

Änderung	Datum	Name	Datum	Name
a			gez.	18.05.2010 Janke
b				
c			gepr.	03.07.2012 Schuller
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31	Sensors Diesel engine Vehicle
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33	Power supply MC
34	Frequency-Input 1A -3A
35	Analogue input
36	Analogue input
37	Digital input 1A - 6A
38	PWM-output 1A - 4A
39	Digital output 1A - 4A
40	Power supply Additive Control unit
41	Additive - Control unit Flat bar - 1

Änderung	Datum	Name		Datum	Name
a			gez.	18.05.2010	Janke
b					
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42	Additive - Control unit Flat bar - 1
43	Additive - Control unit Flat bar - 1
44	Additive - Control unit Flat bar - 1
45	Voltage supply Additive Control unit
46	Additive - Control unit Flat bar - 2
47	Additive - Control unit Flat bar - 2
48	Additive - Control unit Flat bar - 2
49	General arrangement MC
50	Voltage supply MC ASC
51	Frequency-Input 1A - 3A MC ASC
52	Analogue input 1A - 4A MC ASC
53	Analogue input 5A MC ASC

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a			gez.	18.05.2010	Janke
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Page	Page description
54	Digital input 1A - 6A MC ASC
55	PWM-output 1A - 4A MC ASC
56	Blinker & Lighting STVZO 1
57	Lighting STVZO 1
58	Additional lighting
59	Additional lighting ROPS/FOPS
60	Additional lighting XENON ROPS/FOPS
61	Windshield washer
62	Windshield washer
63	Cab lighting Radio assembly
64	Tachograph
65	Control unit, heating Control unit, air conditioning
66	Instrument panel
67	Instrument panel Operator's seat console
68	Instrument panel Operator's seat

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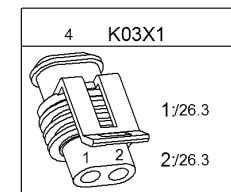
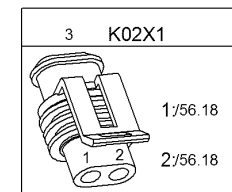
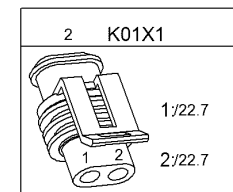
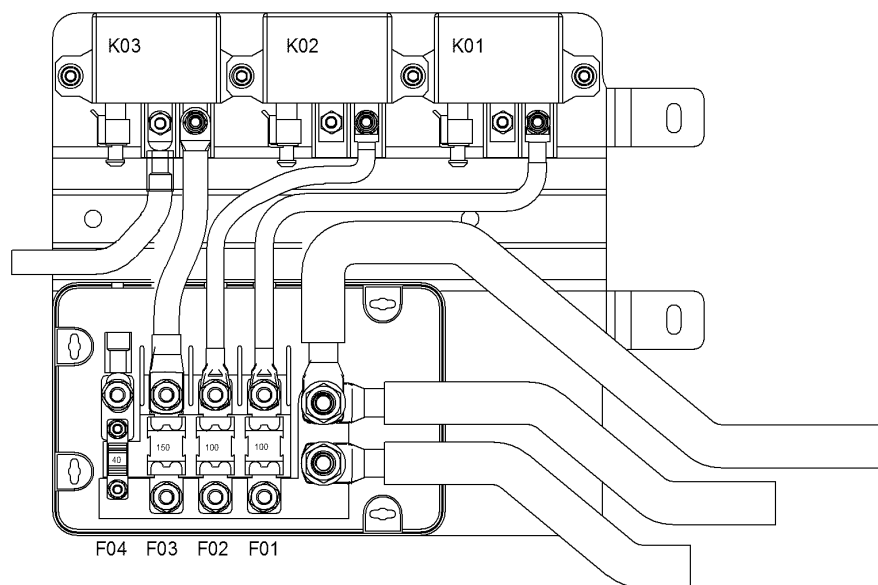
Page list	
Page	Page description
69	Distributor CAN
70	Diagnostic interface
71	HCQ - Preparation
72	Reserve
73	Connector Diesel engine
74	Connector Engine room I
75	Connector Engine room II
76	Connector Front roller
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78	Spare parts list
79	Spare parts list
80	Spare parts list
81	Spare parts list
82	Spare parts list
83	Spare parts list

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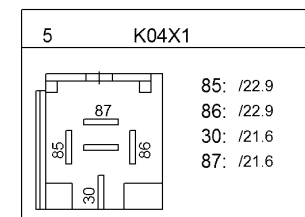
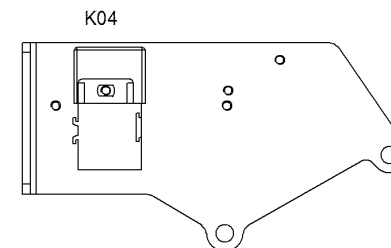


K01: Power relay 15

K02: Power relay Additional lighting

K03: Power relay Preheat equipment

K04: Starting relay



Header Starting relay
(Engine room)

Pos.:	Fuse	Page	Function
100A	F01 100A	/21.10	F01 - 100A: Supply system Terminal 15
100A	F02 100A	/21.13	F02 - 100A: Additional lighting
150A	F03 150A	/21.15	F03 - 150A: Cold start equipment
40A	F04 40A	/21.17	F04 - 40A: Supply system Terminal 30

XF1
/21.8
1

Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
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c			gepr. 03.07.2012	Schuller
d				



Fuse box
high current relay Engine room

Projektbez.
Stromlaufplan HD120-140

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01

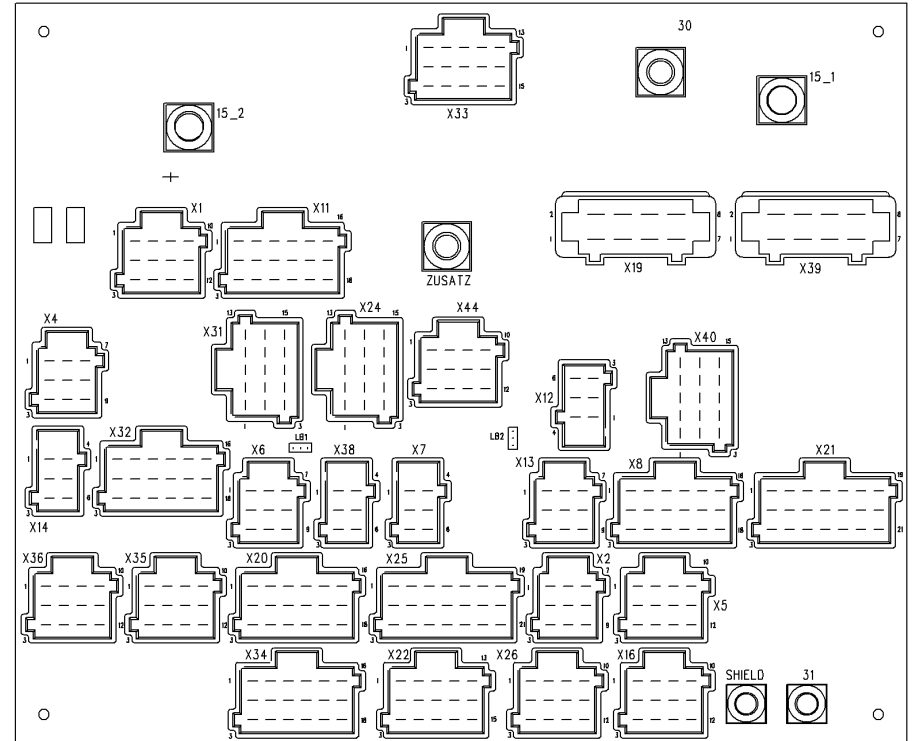
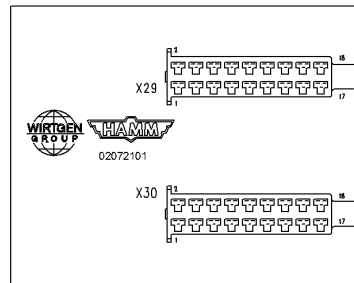
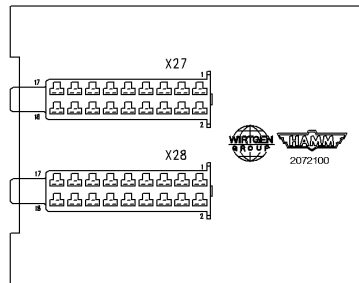
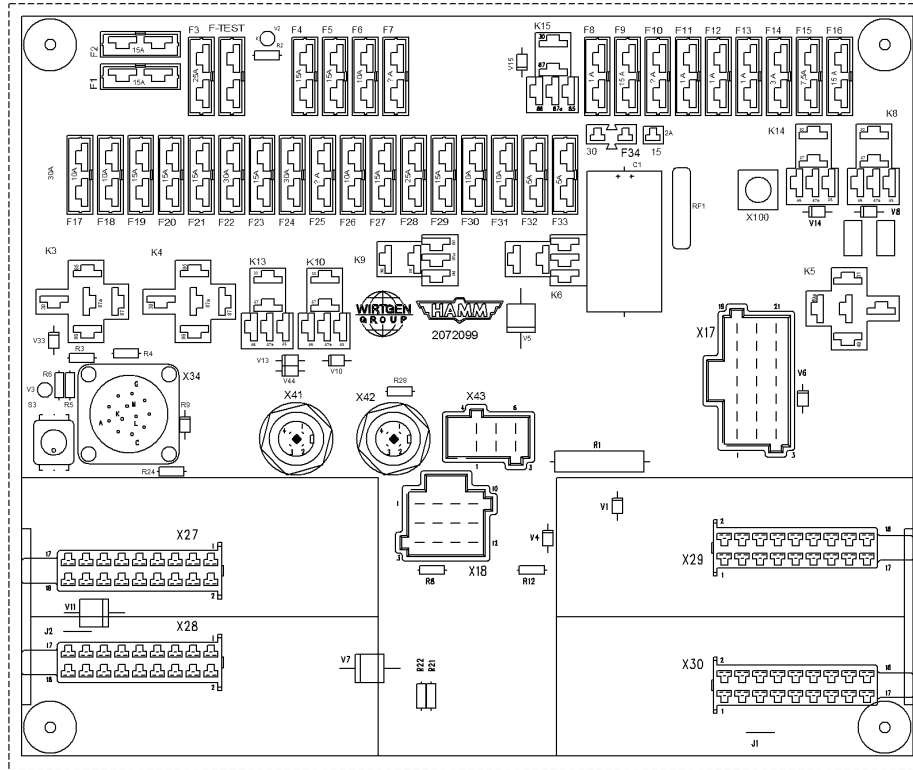
Blatt

8

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Bl.

A1
6



Änderung	Datum	Name	Datum	Name
a			gez. 31.10.2008	Janke
b			gepr. 03.07.2012	Schuller
c				
d				



Central electric

Projektbez.
Stromlaufplan HD120-140
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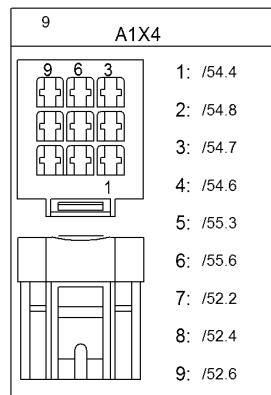
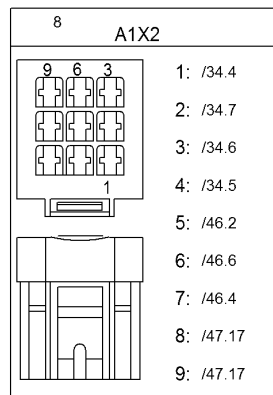
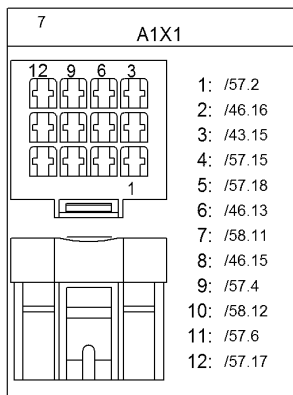
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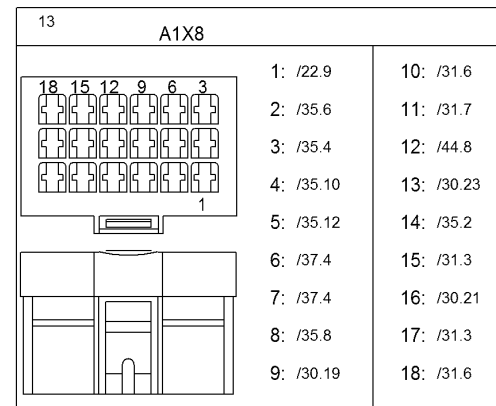
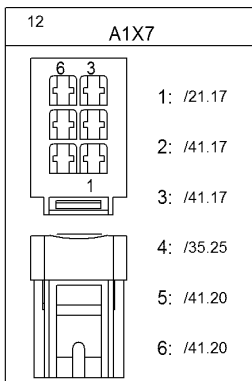
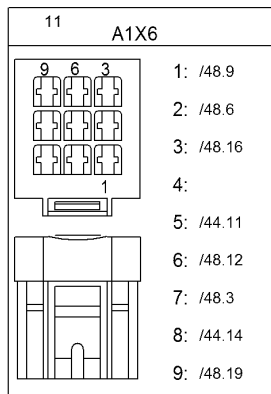
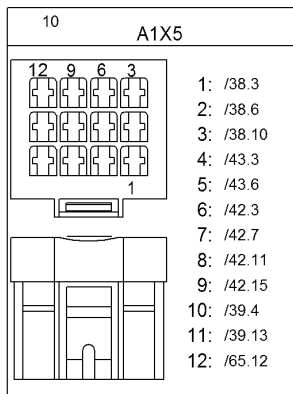
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Fuse		Page		Function																					
F1		15A	/23.18	Power outputs MC Drive control																					
F2		15A	/23.21	Power outputs Additive - Electronic system A																					
F3		25A	/24.3	Control device Diesel engine																					
F4		15A	/63.15	30 Operator's cabin																					
F5		15A	/22.2	Terminal 15																					
F6		10A	/56.5	30 Blinker / Lighting																					
F7		?A		Reserve																					
F8		1A	/33.11	Sensors MC Drive control																					
F9		15A	/50.3	Power outputs MC ASC																					
F10		?A		Reserve																					
F11		1A	/33.7	Electronic system MC Drive control																					
F12		1A	/50.7	Electronic system MC ASC																					
F13		1A	/50.11	Sensors MC ASC																					
F14		3A	/41.2	Sensors Additive - Control device																					
F15		7.5A	/71.3	HCQ-Indicator																					
F16		15A	/45.3	Power outputs Additive - Electronic system B																					
F17		5A	/67.2	Operator's seat console																					
F18		10A	/56.2	15 Blinker / Lighting																					
F19		15A	/38.17	Water pump																					
F20		15A	/44.5	Additive sprinkling																					
F21		15A	/43.15	Signal horn																					
F22		30A	/61.3	Windshield wiper / Windshield washer																					
F23		15A	/63.4	15 Operator's cabin																					
F24		30A	/65.2	Control unit, heating Control unit, air conditioning																					
F25		?A		Reserve																					
F26		10A	/58.18	Rotating-beam light																					
F27		15A	/57.24	Additional lighting Back-up light																					
F28		25A	/58.4	Working spotlights Cabin / ROPS																					
F29		15A	/58.11	Drum lighting Page																					
F30		10A	/57.2	Driving light left																					
F31		10A	/57.15	Driving light right																					
F32		5A	/57.18	Parking light right																					
F33		5A	/57.5	Parking light left																					
F34		2A	/70.24	Diagnostic interface																					

Änderung	Datum	Name		Datum	Name	 	Fuse occupancy Central electric	Projektbez. Stromlaufplan HD120-140			Blatt	
a			gez.	30.06.2006	Janke			Zeichnungsnummer 2130095	Rev. 01			10
b												
c												
d			gepr.	03.07.2012	Schuller					84	Bl.	

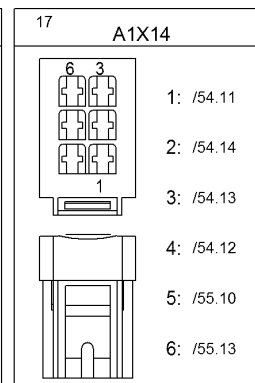
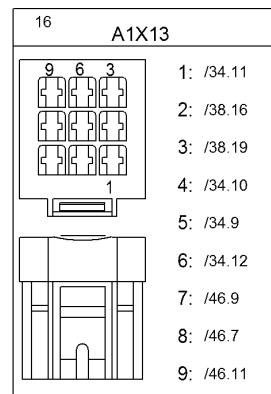
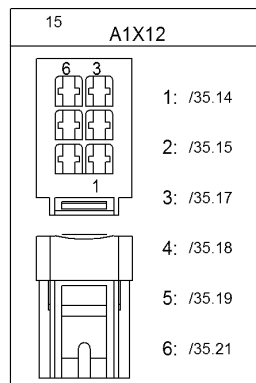
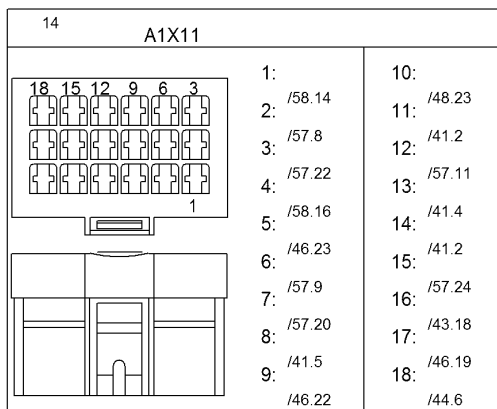
Connector
Front frame part



Connector
Engine room



Connector
Rear frame part



Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Plug occupancy
Central electric

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

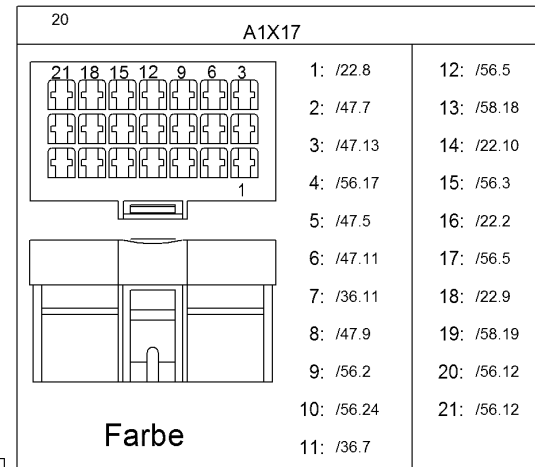
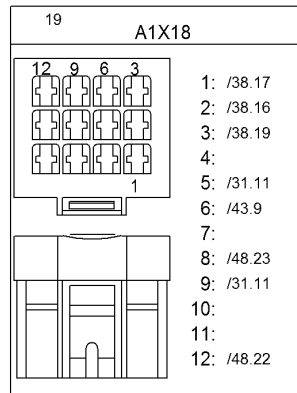
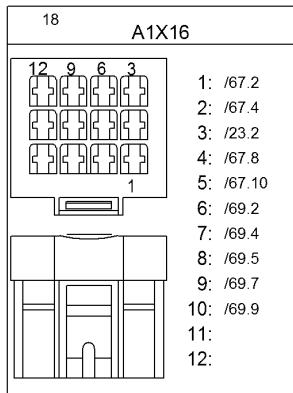
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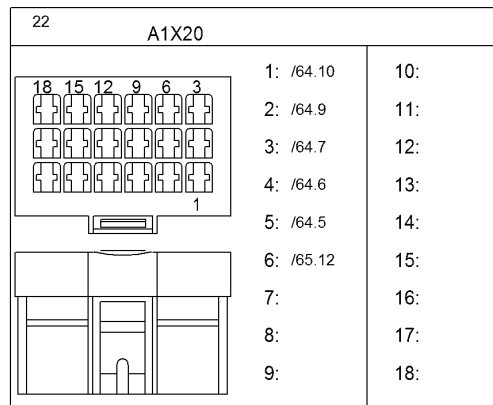
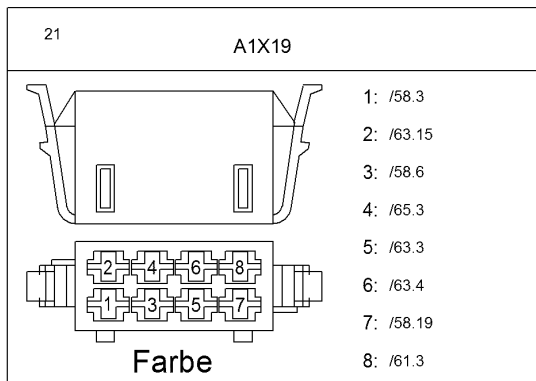
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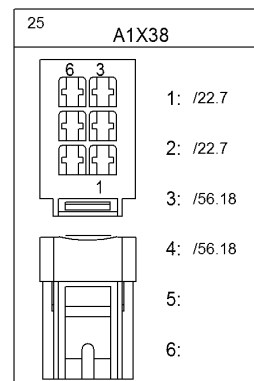
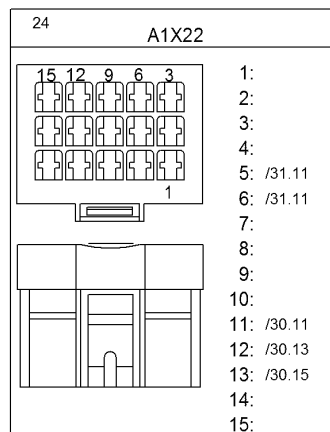
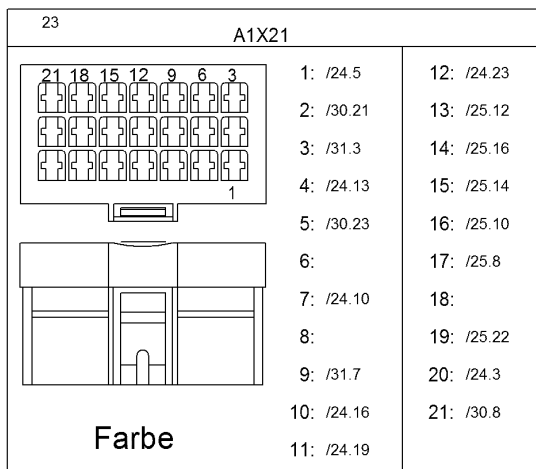
Connector
Operator's seat console



Connector
Operator's cabin / ROPS



Connector
Control device Diesel engine



Änderung	Datum	Name	Datum	Name
a			gez. 25.09.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Plug occupancy
Central electric

Projektbez.
Stromlaufplan HD120-140
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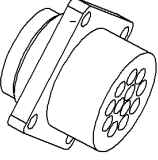
84

Bl.

Connector
Diagnostic

A1X37

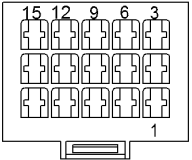
A: /25.4
B: /25.4
C:
D:
E:
F: /25.4



G: /25.4
H: /25.4
J:
K: /25.4
L:
M: /25.4

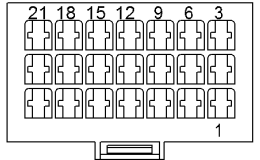
Connector
MC1

26 **A1X24**



1: /69.15
2: /70.2
3: /70.5
4: /69.17
5: /70.3
6: /33.3
7: /33.5
8: /69.11
9: /69.13
10: /33.7
11: /33.9
12: /70.6
13: /33.11
14: /33.3
15: /33.5

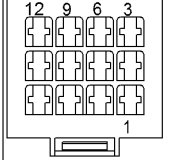
27 **A1X25**



1: /36.7
2: /37.7
3: /37.14
4: /35.25
5: /36.11
6: /34.5
7: /35.8
8: /34.7
9: /37.20
10: /35.19
11: /35.2

Farbe

28 **A1X26**



1: /38.3
2: /38.6
3: /38.10
4: /38.13
5: /39.4
6: /39.7
7: /39.10
8: /39.13
9: /30.13
10: /30.11
11: /36.14
12:

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a			gez.	25.09.2006	Janke
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d					



Plug occupancy
Central electric

Projektbez.
Stromlaufplan HD120-140

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A1.1
29

Additive - Electronic system

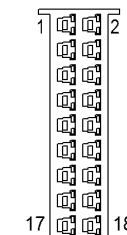
X27

/41.1	A1	AIN Track offset left
/41.4	A2	AIN Track offset right
/41.7	A3	DIN Emergency stop
/41.10	A4	DIN Blinker right
/41.13	A5	DIN Blinker left
/41.16	A6	DIN Pressure switch Hydraulic oil filter
/41.19	A7	AIN soot filter
/42.2	A8	DO Amplitude, small front
/42.6	A9	DO Amplitude, large front
/42.10	A10	DO Amplitude, small rear
/42.14	A11	DO Amplitude, large rear
/39.13	A12	K Emergency stop
/39.13	A13	K Emergency stop
/43.2	A14	DO Track offset left
/43.5	A15	DO Track offset right
/43.8	A16	DO Warning buzzer
/43.12	A17	DO Signal horn
/40.2	A18	GND

X28

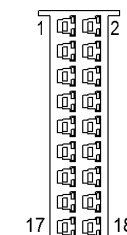
/43.18	B1	DO Back-up alarm
/44.2	B2	DO Additive sprinkling
/44.7	B3	Sprinkling - KAG
/44.10	B4	KAG lift
/44.13	B5	KAG lower
/69.1	B6	CAN A high
/69.3	B7	CAN A low
/69.4	B8	CAN GND
/69.6	B9	CAN B high
/69.8	B10	CAN B low
/40.2	B11	U+ [15]
/40.4	B12	U+ [15]
/40.4	B13	GND
	B14	
	B15	
	B16	
	B17	
/41.22	B18	5VDC Sensor

A1X27b



1: /41.2	10: /42.11
2: /41.5	11: /42.15
3: /41.8	12: /39.13
4: /41.11	13: /39.13
5: /41.14	14: /43.3
6: /41.17	15: /43.6
7: /41.20	16: /43.9
8: /42.3	17: /43.12
9: /42.7	18: /40.3

A1X28b



1: /43.19	10: /69.9
2: /44.3	11: /40.3
3: /44.8	12: /40.5
4: /44.11	13: /40.5
5: /44.14	14:
6: /69.2	15:
7: /69.4	16:
8: /69.5	17:
9: /69.7	18: /41.23

Connector
Flat bar Base appliance

Änderung	Datum	Name		Datum	Name
a			gez.	30.06.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Plug occupancy
Central electric

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Stromlaufplan HD120-140

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A1.2
30

Additive - Electronic system

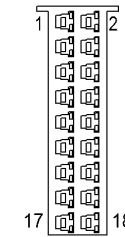
X29

/46.5	A1	DIF Speed sensor, vibration motor front
/46.10	A2	DIF Speed sensor, vibration motor rear
/46.14	A3	AIN Asphalt thermometer front
/46.21	A4	AIN Asphalt thermometer rear
/46.24	A5	GND A3 / A4
/42.4	A6	PWM Amplitude, small front
/42.8	A7	PWM Amplitude, large front
/42.12	A8	PWM Amplitude, small rear
/42.16	A9	PWM Amplitude, large rear
/48.2	A10	PWM Drive Chip spreader
/48.5	A11	DO Reversing valve Chip spreader
/48.8	A12	DO Chip spreader open
/48.12	A13	DO Chip spreader close
/48.15	A14	DO Reversing valve KAG
/48.18	A15	DO Flow divider
/48.21	A16	DO Tire-heating
/47.2	A17	DIN Emergency stop
/45.2	A18	GND

X30

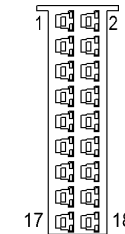
/64.8	B1	DO Amplitude, large
/64.10	B2	DO Amplitude, small
/47.4	B3	U+
/47.6	B4	AIN Distribution potentiometer Chip spreader
/47.8	B5	0V
/47.10	B6	DIN Chip spreader
/47.12	B7	DIN Chip spreader
/47.14	B8	AIN Chip spreader
	B9	
	B10	
/69.10	B11	CAN A high
/69.12	B12	CAN A low
/69.13	B13	CAN GND
/69.16	B14	CAN B high
/69.17	B15	CAN B low
/45.2	B16	U+ [15]
/45.4	B17	U+ [15]
/45.4	B18	GND

A1X29b



1: /46.6	10: /48.3
2: /46.11	11: /48.6
3: /46.15	12: /48.9
4: /46.22	13: /48.12
5: /46.25	14: /48.16
6: /42.5	15: /48.19
7: /42.9	16: /48.22
8: /42.13	17: /47.3
9: /42.17	18: /45.3

A1X30b



1: /64.9	10:
2: /64.11	11: /69.11
3: /47.5	12: /69.12
4: /47.7	13: /69.14
5: /47.9	14: /69.17
6: /47.11	15: /69.18
7: /47.13	16: /45.3
8: /47.15	17: /45.5
9:	18: /45.5

Connector
Flat bar Option

Änderung	Datum	Name		Datum	Name
a			gez.	30.06.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Plug occupancy
Central electric

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

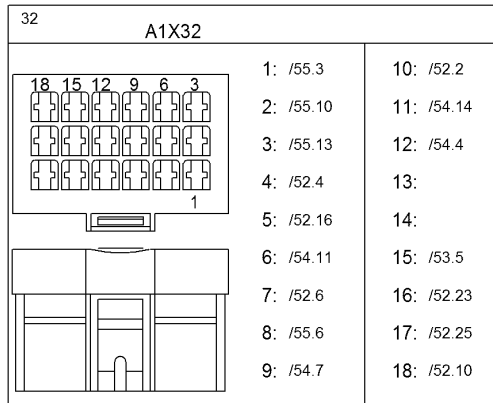
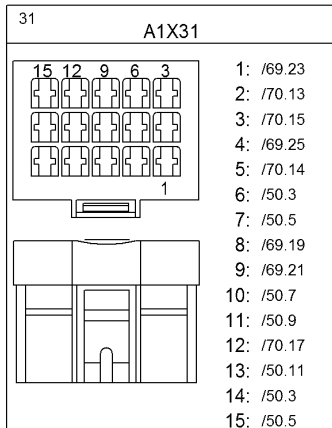
Blatt

15

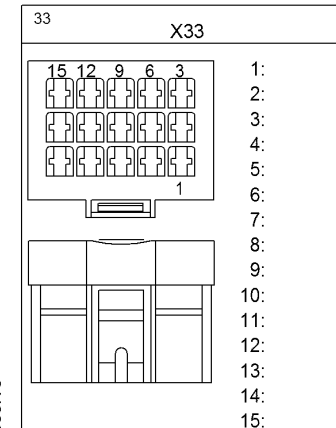
84 Bl.

Plotdatum: 30.01.2015

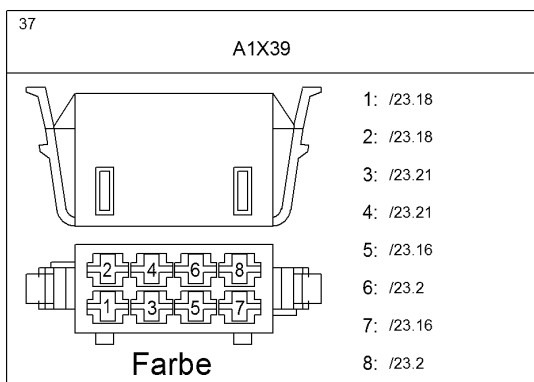
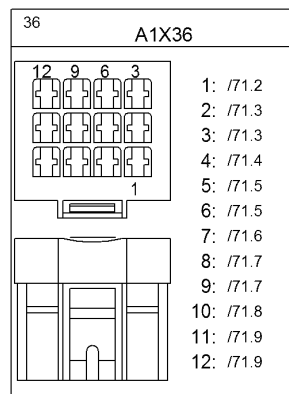
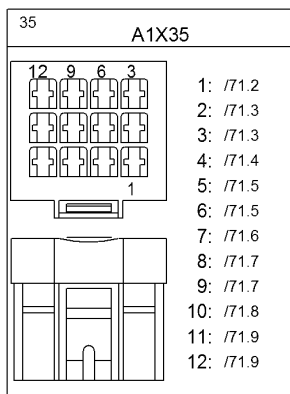
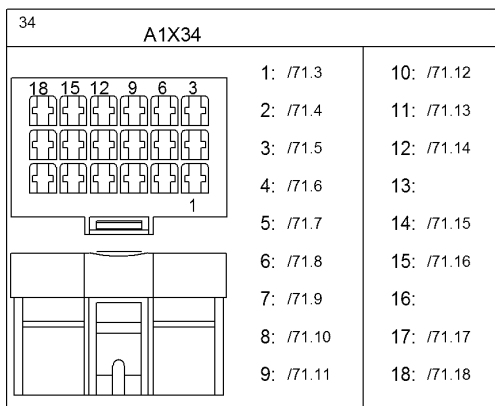
Connector
MC ASC



Connector
Reserve



Connector
HCM



Änderung	Datum	Name	Datum	Name
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b			gepr.	03.07.2012 Schuller
c				
d				



Plug occupancy
Central electric

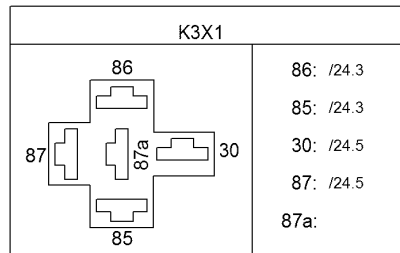
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

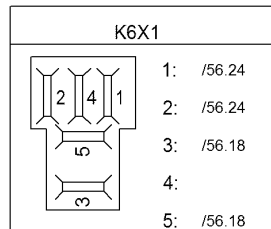
16

84

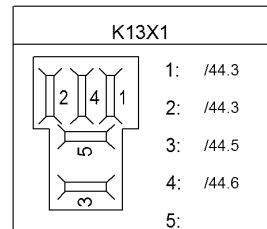
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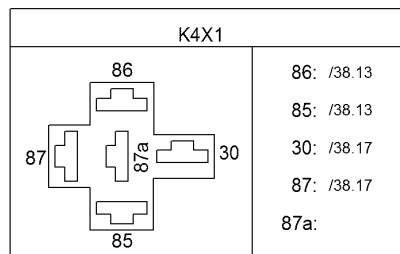
Control device Diesel engine



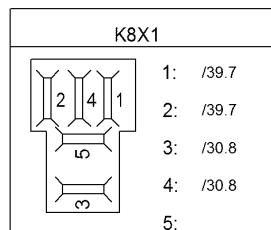
Driving light



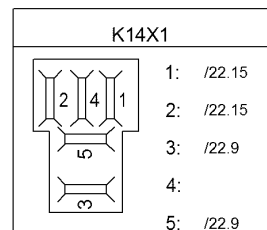
Additive sprinkling



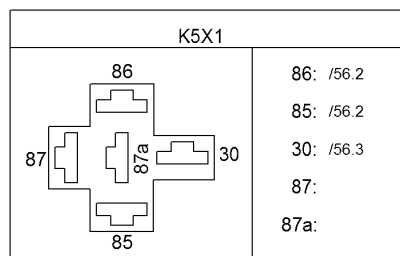
Water pump 1/2



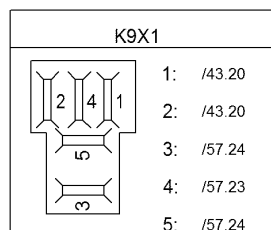
Remote shut-down engine



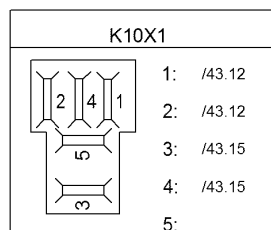
Drive lever 0-position



Flasher relay



Back-up alarm



Signal horn

Änderung	Datum	Name		Datum	Name
a			gez.	09.10.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Relay
Central electric

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

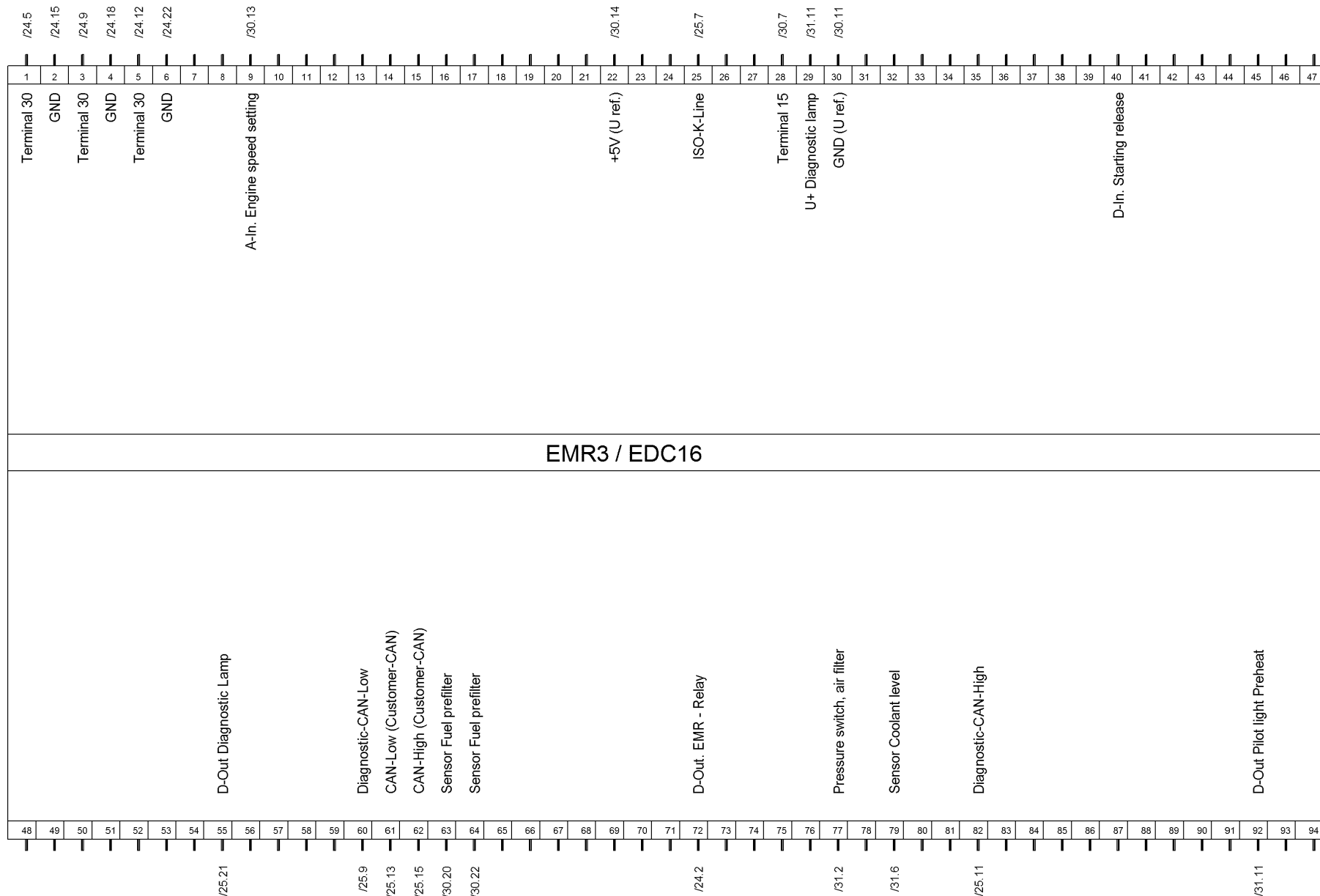
17

84

Bl.

D1.1

EMR3 / EDC16



Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Control device
Diesel engine EMR-3

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

Blatt

18

84

Bl.

EMR3 / EDC16

Pin	Signal	Signal
31	D-Out Injection valve Cylinder 5	GND Injection valve Cylinder 4-6
32	D-Out Injection valve Cylinder 6	
33	D-Out Injection valve Cylinder 2	
34	D-Out - Relay Preheat	
35		
36		
37		Shield
38		GND Pressure sensor Fuel Rail
39		
40	A-In. charge-air pressure	F-In. Speed sensor Camshaft
41	GND Temperature sensor, engine cooling	GND Pressure sensor Fuel Low pressure
42		GND Speed sensor Crankshaft
43	A-In. Pressure sensor Fuel Rail	+5V Sensor
44		+5V Sensor
45		D-Out - Starting relay
46	D-Out Injection valve Cylinder 4	GND Injection valve Cylinder 1-3
47	D-Out Injection valve Cylinder 1	
48	D-Out Injection valve Cylinder 3	
49	GND Fuel Valve Rail	PWM-Out + Fuel Valve Rail
50	GND Speed sensor Camshaft	Shield
51	GND Sensor Engine oil pressure	D-In. Relay Preheat
52		
53	A-In. Temperature sensor Boost air	GND Sensor Boost air
54	+5V Pressure sensor Fuel Low pressure	D-Out + Relay Preheat
55		
56	A-In. Engine oil pressure	+5V Pressure sensor Fuel Rail
57	A-In. Pressure sensor Fuel Low pressure	F-In. Speed sensor Crankshaft
58	A-In. Temperature sensor, engine cooling	
59		
60		D-Out + Starting relay

	Änderung	Datum	Name		Datum	Name
a				gez.	30.06.2006	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



Projektbez.	
Stromlaufplan HD120-140	
Zeichnungsnummer	Rev.
2130095	01

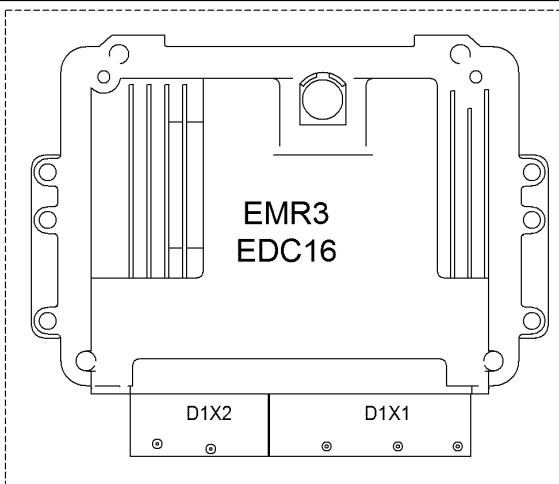
Blatt

19

	84
--	----

BI.

D1
38



39		D1X1			
VIEW CONTACTS					
		1: /24.6	25: /25.8	49:	73:
		2: /24.16	26:	50:	74:
		3: /24.10	27:	51:	75:
		4: /24.19	28: /30.8	52:	76:
		5: /24.13	29: /31.11	53:	77: /31.3
		6: /24.23	30: /30.11	54:	78:
		7:	31:	55: /25.22	79: /31.7
		8:	32:	56:	80:
		9: /30.13	33:	57:	81:
		10:	34:	58:	82: /25.12
		11:	35:	59:	83:
		12:	36:	60: /25.10	84:
		13:	37:	61: /25.14	85:
		14:	38:	62: /25.16	86:
		15:	39:	63: /30.21	87:
		16:	40:	64: /30.23	88:
		17:	41:	65:	89:
		18:	42:	66:	90:
		19:	43:	67:	91:
		20:	44:	68:	92: /31.11
		21:	45:	69:	93:
		22: /30.15	46:	70:	94:
		23:	47:	71:	
		24:	48:	72: /24.3	

Diesel engine

40		D1X2			
VIEW CONTACTS					
		1: /29.24	21: /26.7	41: /26.17	
		2:	22:	42:	
		3:	23: /27.5	43: /27.22	
		4:	24: /26.5	44:	
		5:	25:	45:	
		6:	26: /27.24	46: /29.18	
		7:	27:	47: /29.9	
		8: /27.20	28:	48: /29.12	
		9:	29:	49: /29.5	
		10: /28.11	30: /26.11	50: /28.12	
		11: /28.3	31: /29.20	51: /27.16	
		12:	32: /29.22	52:	
		13: /27.12	33: /29.11	53: /27.7	
		14: /27.3	34: /26.3	54: /28.7	
		15: /26.13	35:	55:	
		16: /29.14	36:	56: /27.14	
		17:	37:	57: /28.5	
		18:	38:	58: /26.15	
		19: /29.3	39:	59:	
		20: /28.14	40: /27.9	60:	

Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Control device Diesel engine
EMR-3 Electric plug

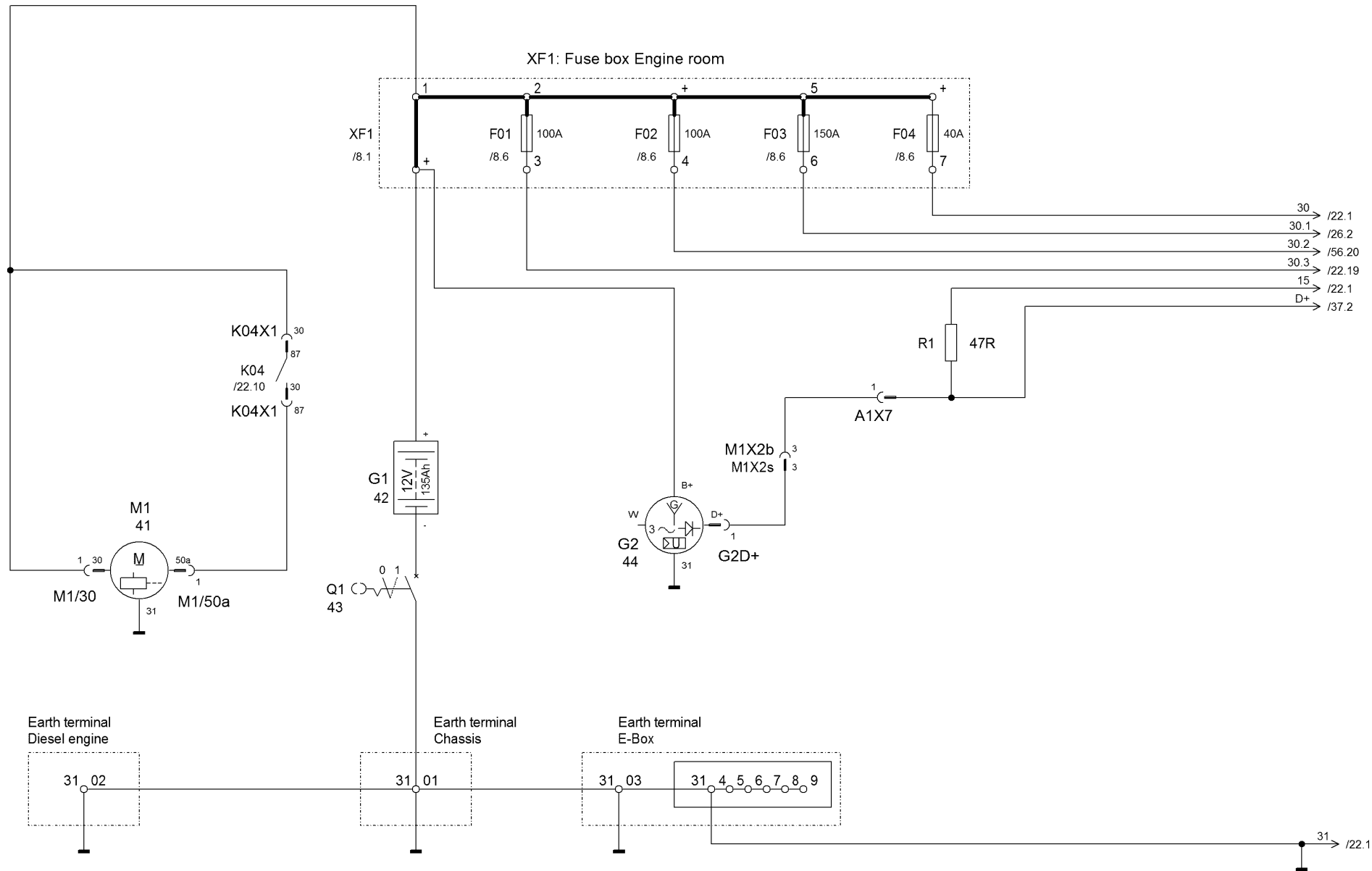
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

20

84

Bl.



M1: Starting motor
K04: Starting relay

G1: Battery
S1: Battery isolating switch

G2: Alternator

Änderung	Datum	Name
a	06.06.2011	Michael Sperber
b		
c		
d		

gez.	Datum	Name
	30.06.2006	Janke
gepr.	03.07.2012	Schuller



**Voltage supply
Supply system**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

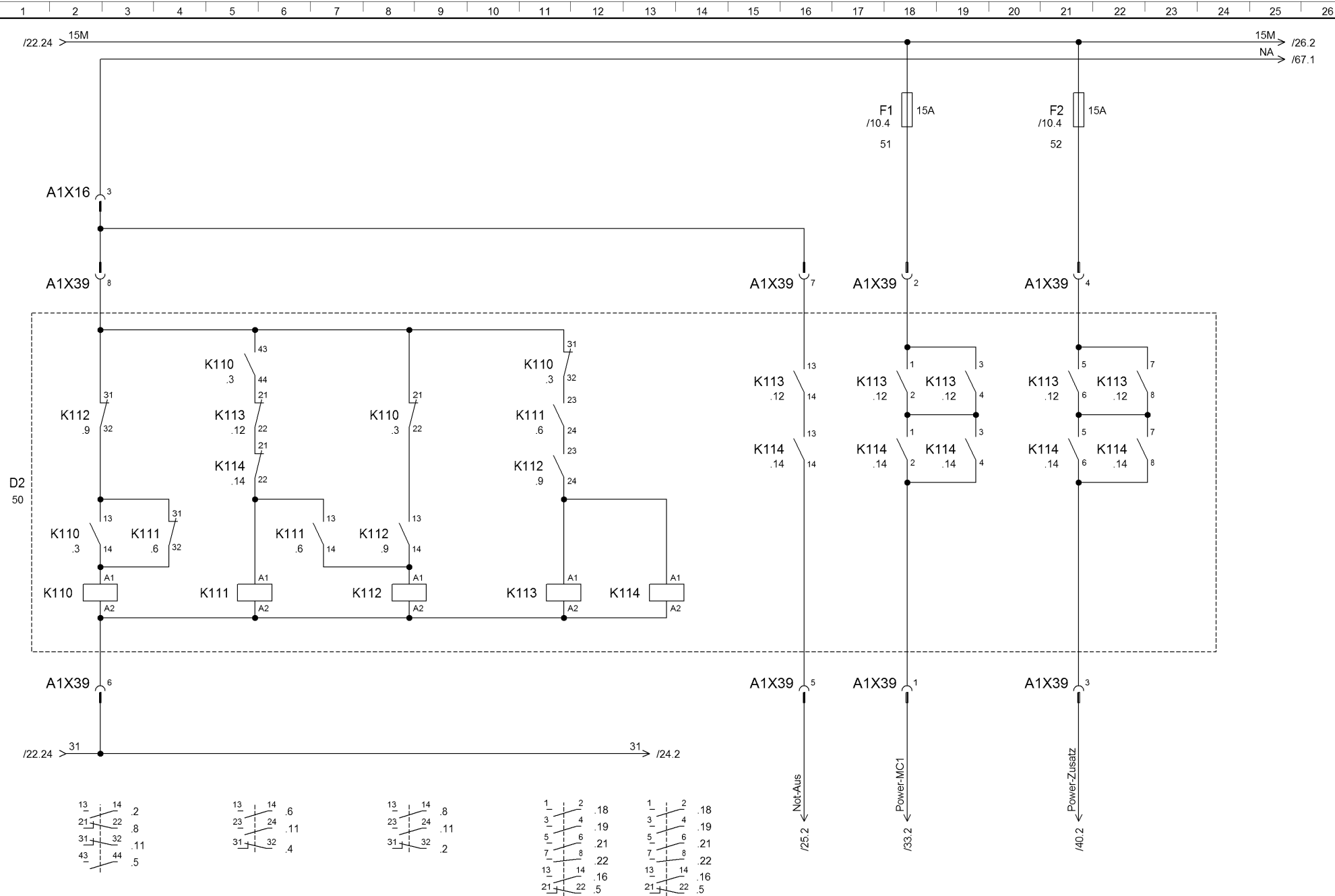
Blatt

21

84 Bl.



Blatt	22
84	Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b			gepr. 03.07.2012	Schuller
c				
d				



Emergency control

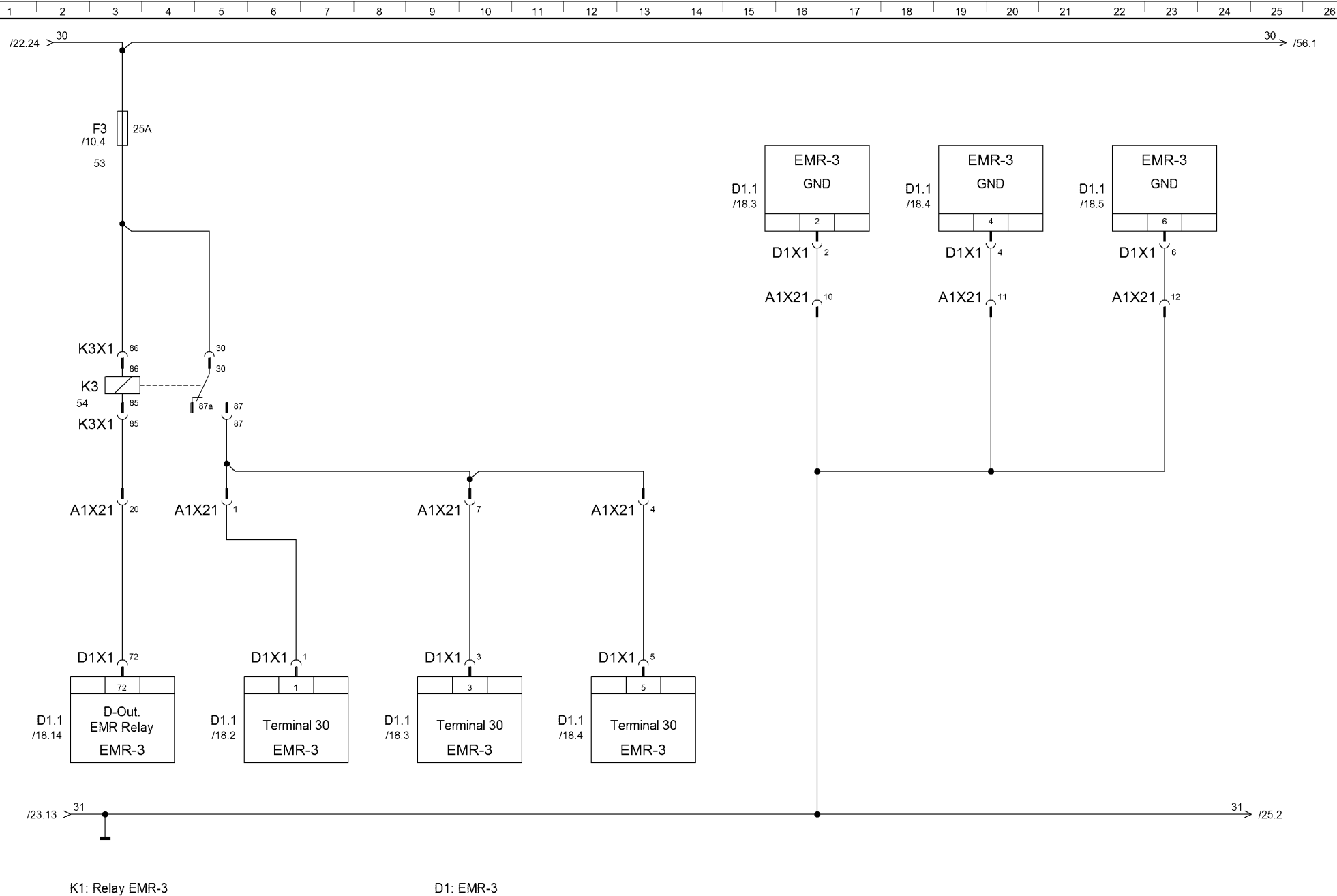
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

23

84 Bl.

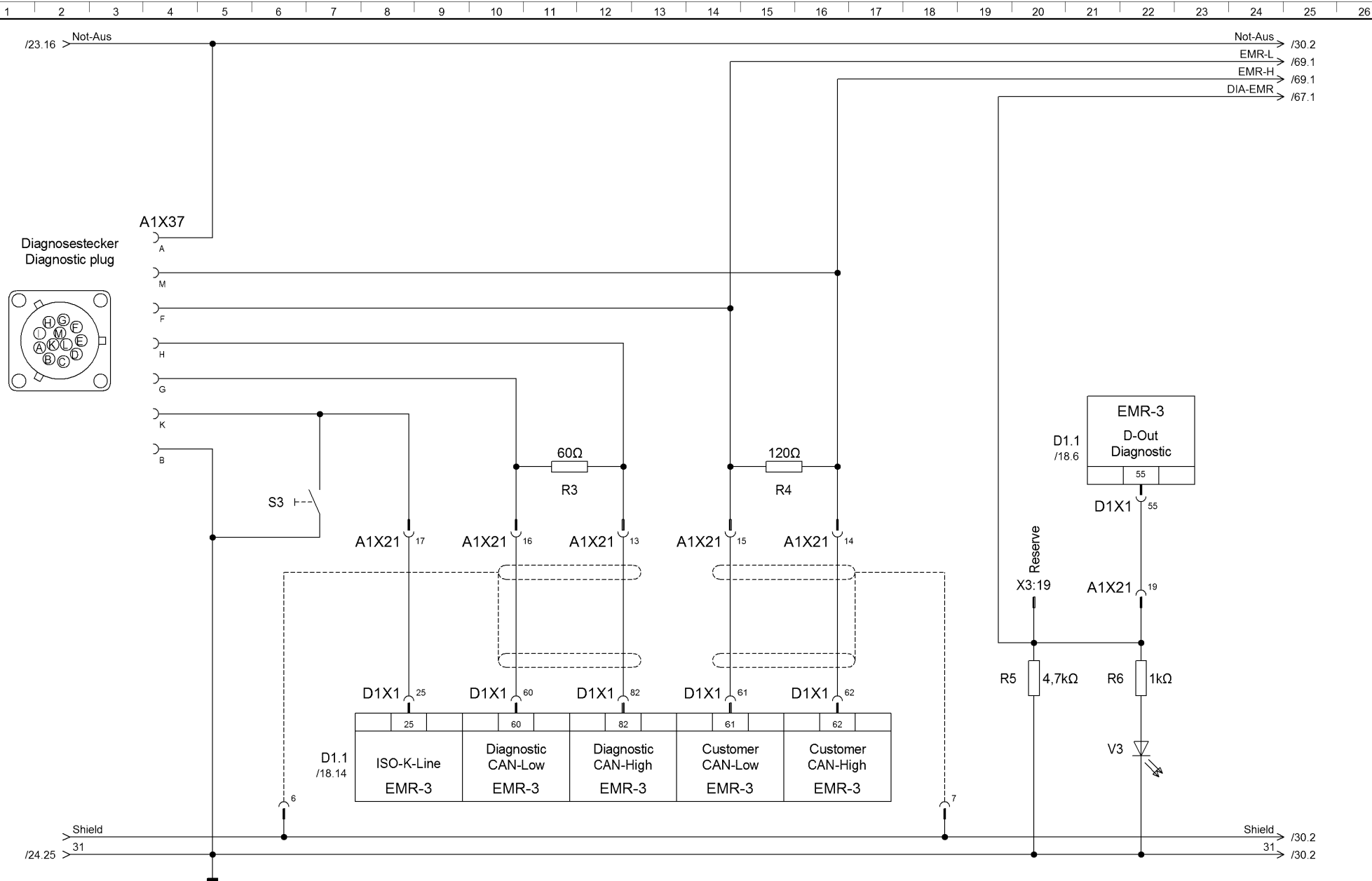


Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Voltage supply EMR-3

Projektbez.		Blatt
Stromlaufplan HD120-140		24
Zeichnungsnummer	Rev.	
2130095	01	84 Bl.



D1: EMR-3
S3: Push button switch Warning lamp Diesel engine

Änderung	Datum	Name	Datum	Name
a			gez. 30.06.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				

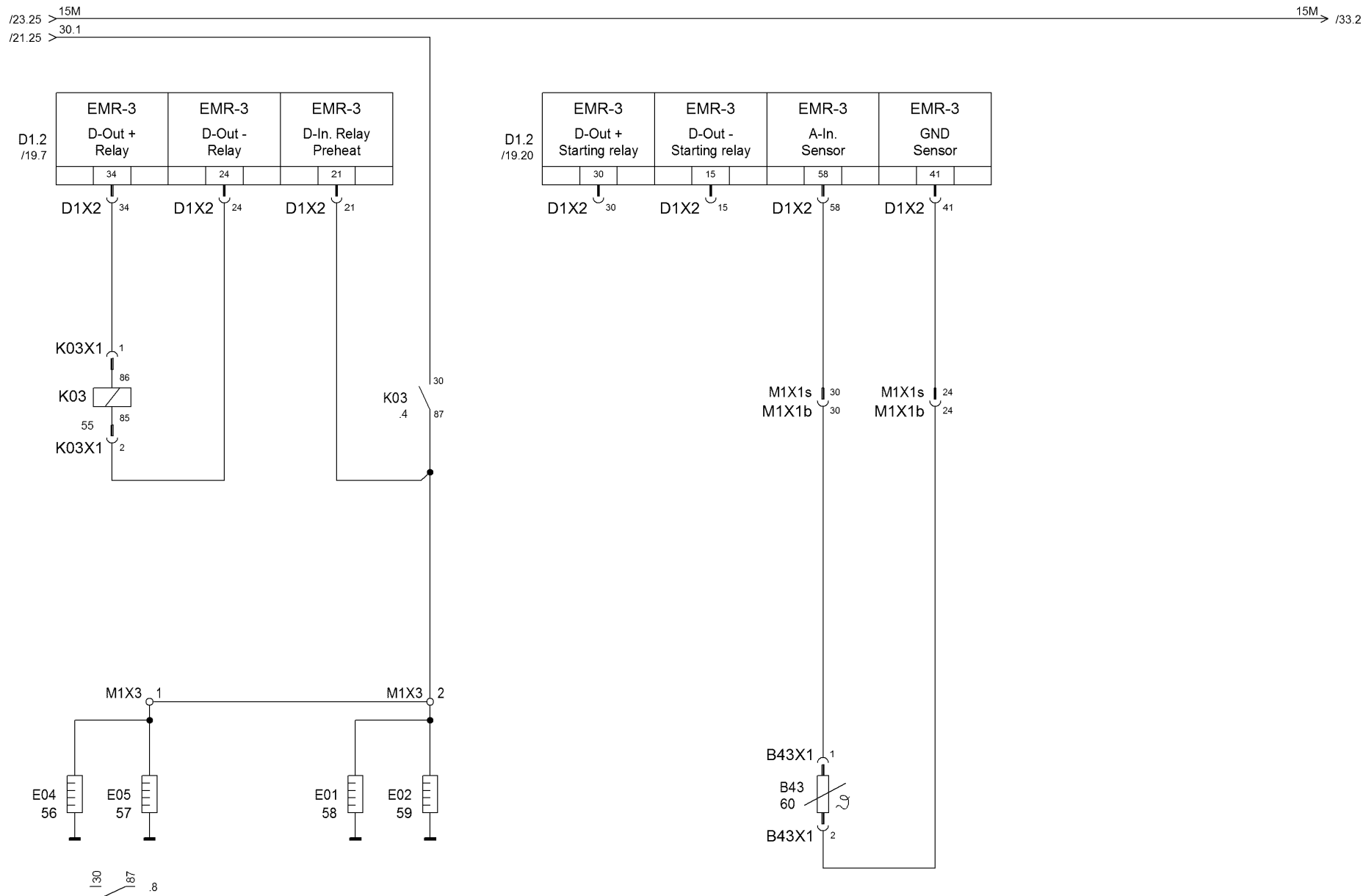


**Diagnostic interface
Diesel engine**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt
25
84 Bl.



K03: Relay Heater plugs
E01-E06: Heater plugs

B43: Temperature sensor, engine cooling
R(20°C) 2500 Ohm

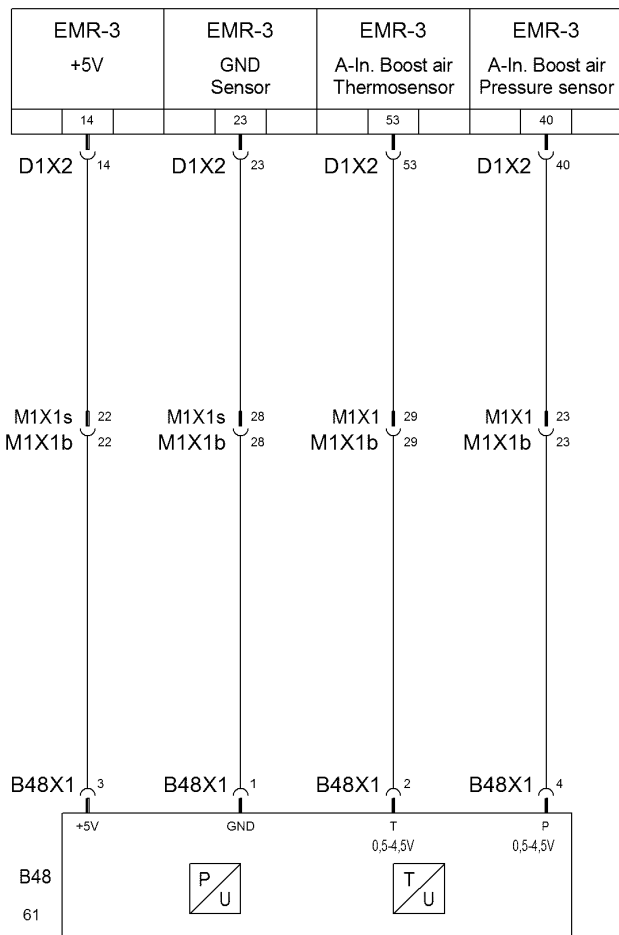
Änderung	Datum	Name	Datum	Name
a			gez. 04.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Diesel engine
Cold start equipment Common Rail

Projektbez.	Stromlaufplan HD120-140	Blatt	26
Zeichnungsnummer	2130095	Rev.	01
		84	Bl.

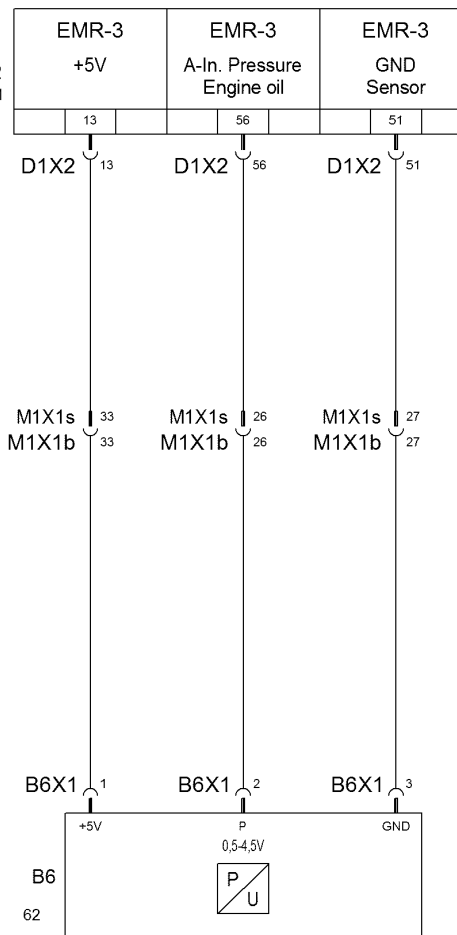
D1.2
/19.12



B48: Sensor charge-air pressure /
Boost air Thermosensor

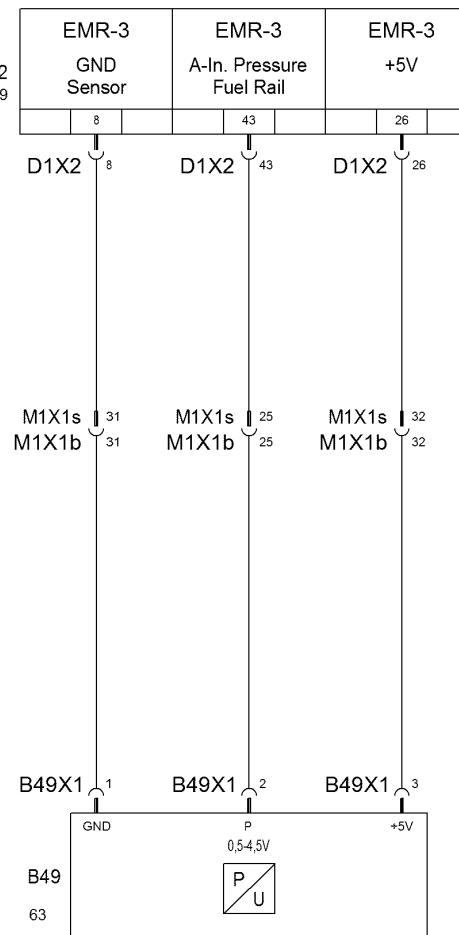
R(20°C) 2510 Ohm

D1.2
/19.11



B6: Sensor Engine oil pressure

D1.2
/19.9



B49: Pressure sensor Fuel Rail

Änderung	Datum	Name		Datum	Name
a			gez.	04.07.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



**Diesel engine 2
Common Rail**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

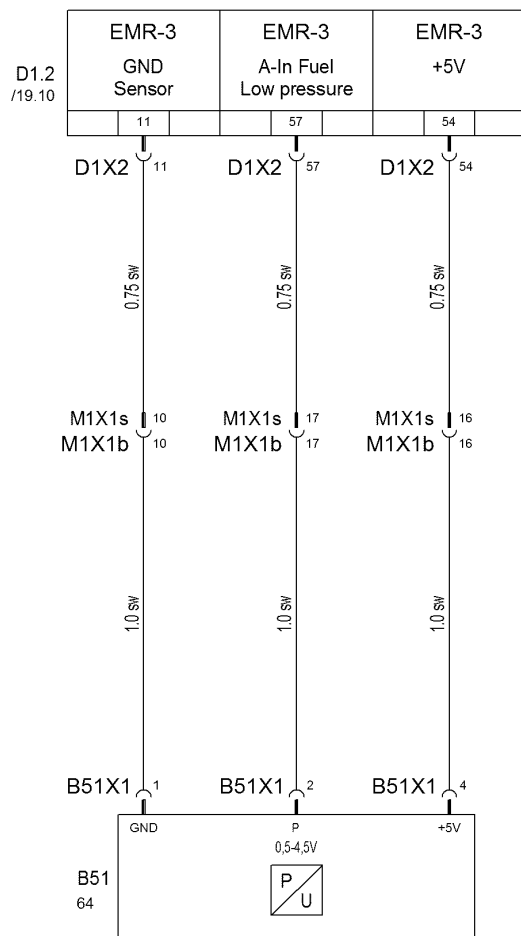
Rev.
01

Blatt

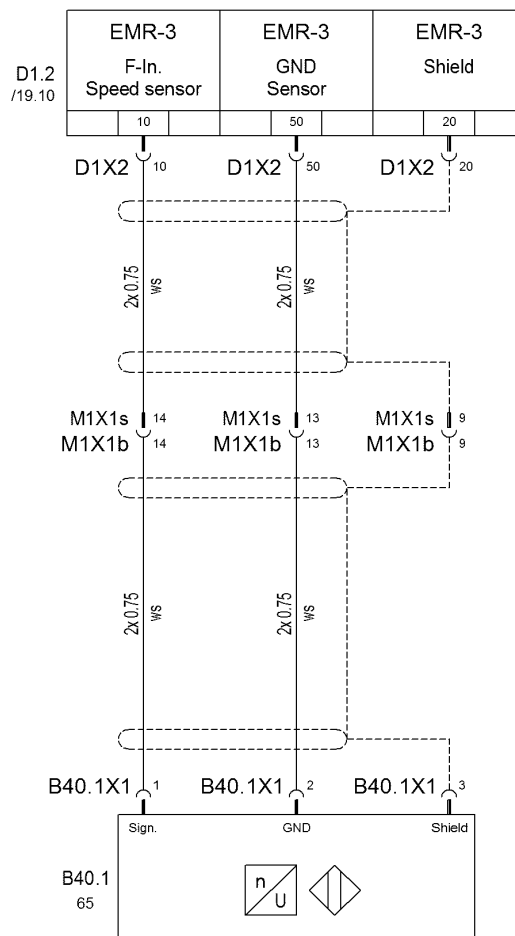
27

84

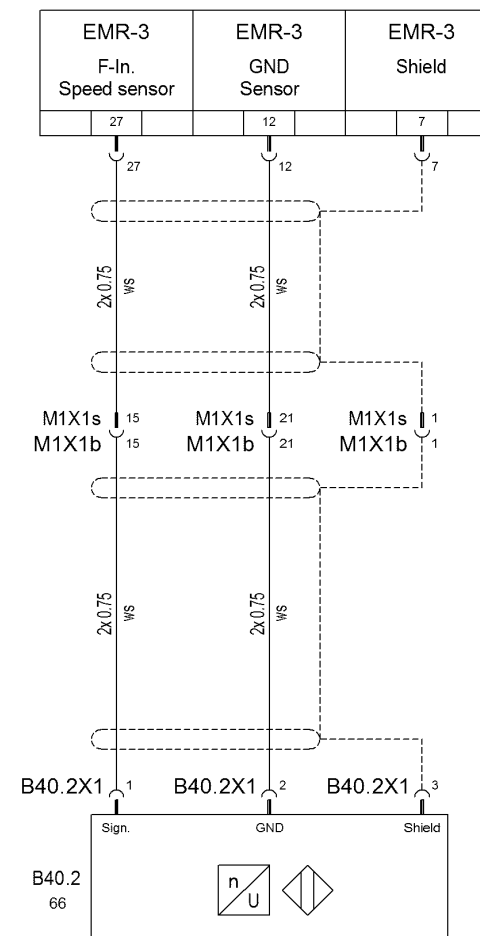
Bl.



B51: Pressure sensor Fuel Low pressure



B40.1: Speed sensor Camshaft



B40.2: Speed sensor Crankshaft

Änderung	Datum	Name	Datum	Name
a			gez. 05.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



**Diesel engine 2
Common Rail**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

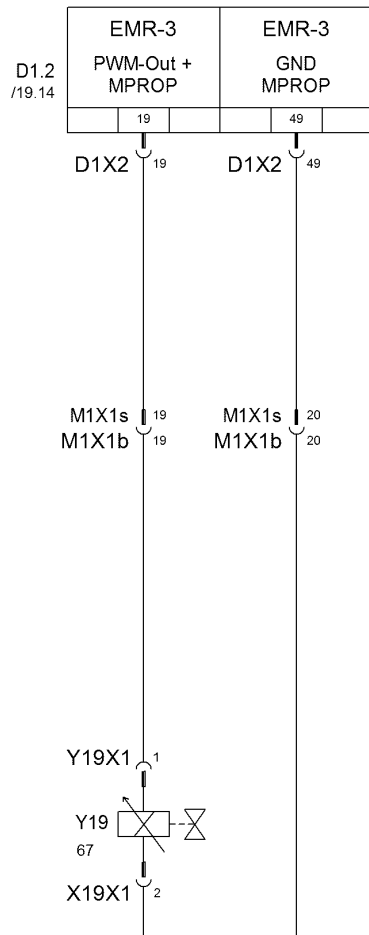
Rev.
01

Blatt

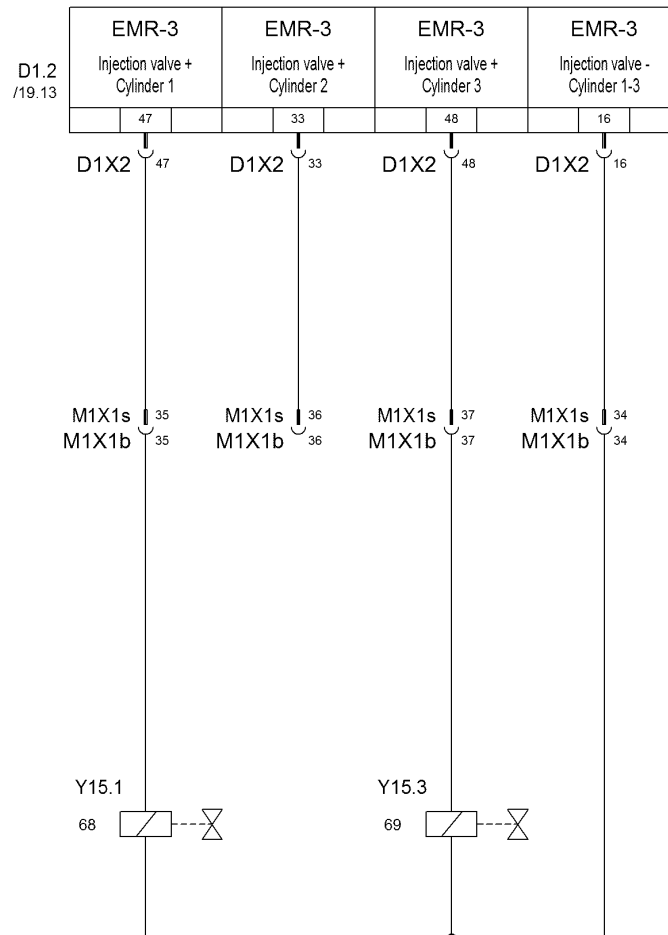
28

84

Bl.



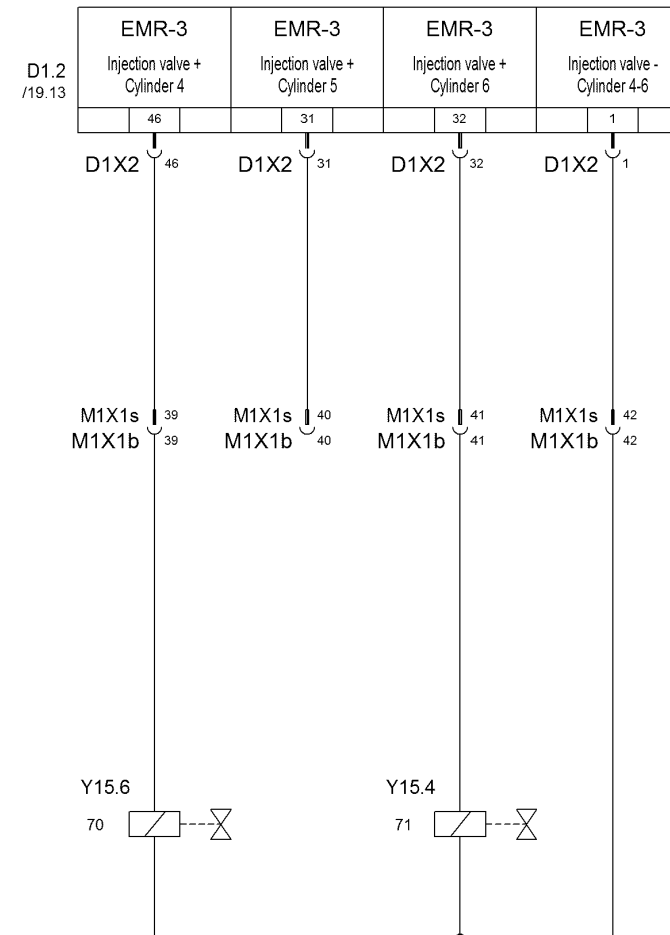
Y19: Fuel Valve Rail
R = 3 Ohm



Y15.1: Injection valve
Cylinder 1

Y15.3: Injection valve
Cylinder 3

R = 0,5 Ohm



Y15.2: Injection valve
Cylinder 5

Y15.4: Injection valve
Cylinder 6

R = 0,5 Ohm

Änderung	Datum	Name		Datum	Name
a			gez.	05.07.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Diesel engine 4
Common Rail

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

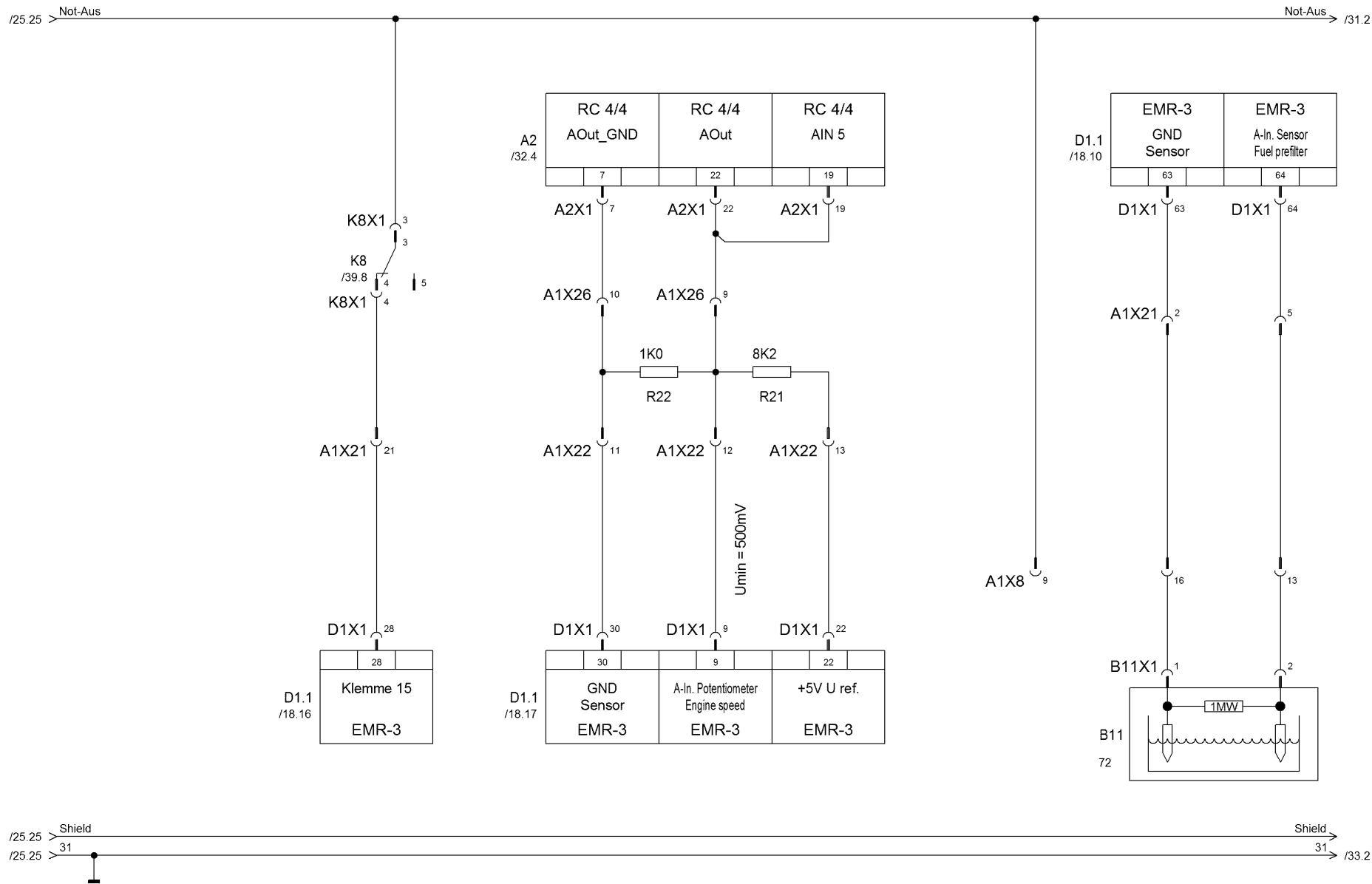
Rev.
01

Blatt

29

84

Bl.



B11: Sensor Water level
Fuel prefilter

Änderung	Datum	Name		Datum	Name
a			gez.	05.07.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Speed adjustment Diesel engine
Sensor Fuel prefilter

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

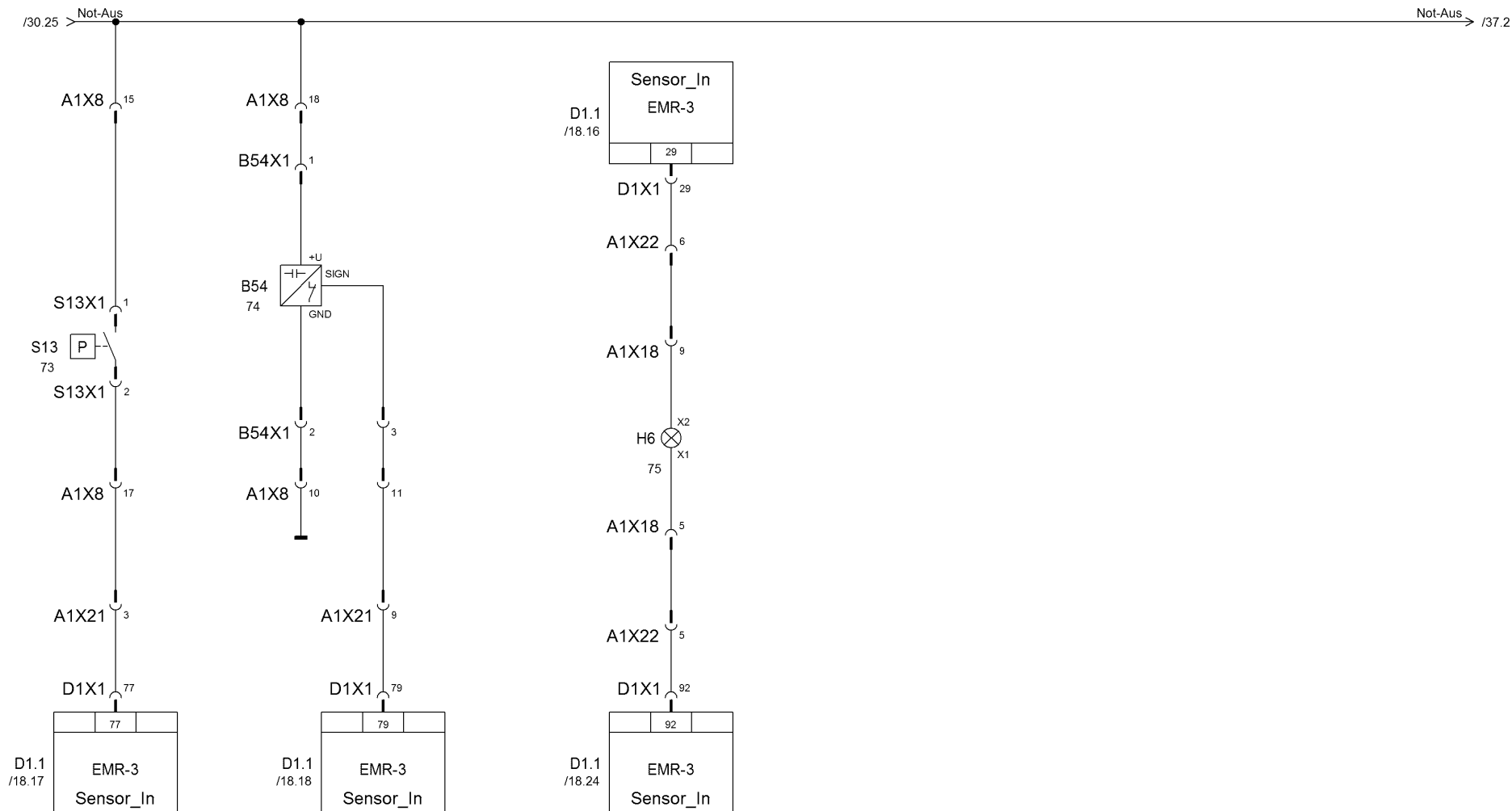
Rev.
01

Blatt

30

84

Bl.



S13: Pressure switch, air filter
B54: Level switch, cooling fluid
H6: Pilot light, glow

Änderung	Datum	Name		Datum	Name
a			gez.	03.11.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



**Sensors Diesel engine
Vehicle**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

31

84

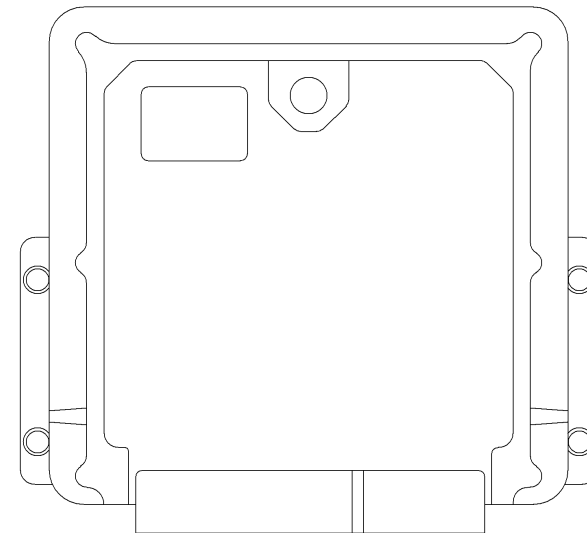
Bl.

U+ Power outputs	/33.2
Earth	/33.2
Earth	/33.6
Parking brake	/38.9
Back-up alarm	/39.9
Emergency stop Drive pump	/39.13
Engine speed setting	/30.11
Water level indicator Signal	/35.18
Preselection Engine speed	/36.10
Emergency stop	/37.10
Sense of rotation front left	/37.13
Charge indicator	/37.19
enable Power outputs Input	/33.10
not used	
Contr. switch/starter safety switch	/39.6
Water pump 1	/38.12
not used	
not used	
Engine speed setting	/30.14
Thermosensor Hydraulic oil Signal	/35.24
not used	/36.13
Engine speed setting	/30.13
Sense of rotation rear left	/37.16
GND RS232	/70.4
CAN-L2	/69.16
CAN-H2	/69.14
U+ Power outputs	/33.4
Earth	/33.4
Gear shifting	/39.3
Drive pump reverse	/38.5
Drive pump forward	/38.2
Speed sensor front left Earth	/34.4
Speed sensor front left Signal	/34.6
0-position Drive lever	/36.3
Angle sensor Pivoted bearing Signal	/35.3
Angle sensor Pivoted bearing +5V	/35.1
Pressure switch, parking brake	/37.3
Angle sensor Pivoted bearing GND	/35.5
CAN-L1	/69.12
CAN-H1	/69.10
U+ Electronic system	/33.6
U+ Electronic system	/33.8
Speed sensor rear left Earth	/34.9
Speed sensor rear left Signal	/34.11
Preselection Engine speed	/36.6
Fuel indicator Signal	/35.9
Voltage supply 5VDC	/35.7
Ignition switch 50a	/37.6
Voltage supply 0VDC	/35.11
RxD RS232	/70.2
TxD RS232	/70.1
Bootstrap	/70.5

A2
76

RC 4-4/20

1	+U Power outputs
2	GND
3	GND Housing
4	PWM-output - 3
5	Digital output - 3
6	Digital output - 4
7	Analogue-Output GND
8	Analogue input [U] 3
9	Analogue input [I] 3
10	Digital input - 3
11	Digital input - 4
12	Digital input - 6
13	Enable Power outputs in
14	Enable Power outputs out
15	Digital output - 2
16	PWM-output - 4
17	GND Frequency-Input 3
18	Frequency-Input 3
19	Analogue input [U] 5
20	Analogue input [U] 4
21	Analogue input [I] 4
22	Analogue-Output Signal
23	Digital input - 5
24	GND RS232
25	CAN-L2
26	CAN-H2
27	+U Power outputs
28	GND
29	Digital output - 1
30	PWM-output - 2
31	PWM-output - 1
32	GND Frequency-Input 1
33	Frequency-Input 1
34	Analogue input [I] 1
35	Analogue input [U] 1
36	5V Voltage supply - 1
37	Digital input - 1
38	GND Voltage supply - 1
39	CAN-L1
40	CAN-H1
41	Voltage supply Electronic system
42	Voltage supply Electronic system
43	GND Frequency-Input 2
44	Frequency-Input 2
45	Analogue input [I] 2
46	Analogue input [U] 2
47	5V Voltage supply - 2
48	Digital input - 2
49	GND Voltage supply - 2
50	RxD RS232
51	TxD RS232
52	Bootstrap



77

A2X1

A technical line drawing of a vertical machine, possibly a washing machine or a dryer. It features a large rectangular body with a door on the left side. Above the door is a control panel with various buttons and a dial. The machine has a base with a small rectangular compartment. The drawing is annotated with numbers 1 through 52, which correspond to the parts list on the right.

1:	/33.3	27:	/33.5
2:	/33.3	28:	/33.5
3:	/33.7	29:	/39.4
4:	/38.10	30:	/38.6
5:	/39.10	31:	/38.3
6:	/39.13	32:	/34.5
7:	/30.11	33:	/34.7
8:	/35.19	34:	/36.4
9:	/36.11	35:	/35.4
10:	/37.11	36:	/35.2
11:	/37.14	37:	/37.4
12:	/37.20	38:	/35.6
13:	/33.11	39:	/69.13
14:		40:	/69.11
15:	/39.7	41:	/33.7
16:	/38.13	42:	/33.9
17:		43:	/34.10
18:		44:	/34.12
19:	/30.15	45:	/36.7
20:	/35.25	46:	/35.10
21:	/36.14	47:	/35.8
22:	/30.13	48:	/37.7
23:	/37.17	49:	/35.12
24:	/70.5	50:	/70.3
25:	/69.17	51:	/70.2
26:	/69.15	52:	/70.6

	Änderung	Datum	Name		Datum	Name
a				gez.	14.07.2006	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



General arrangement MC

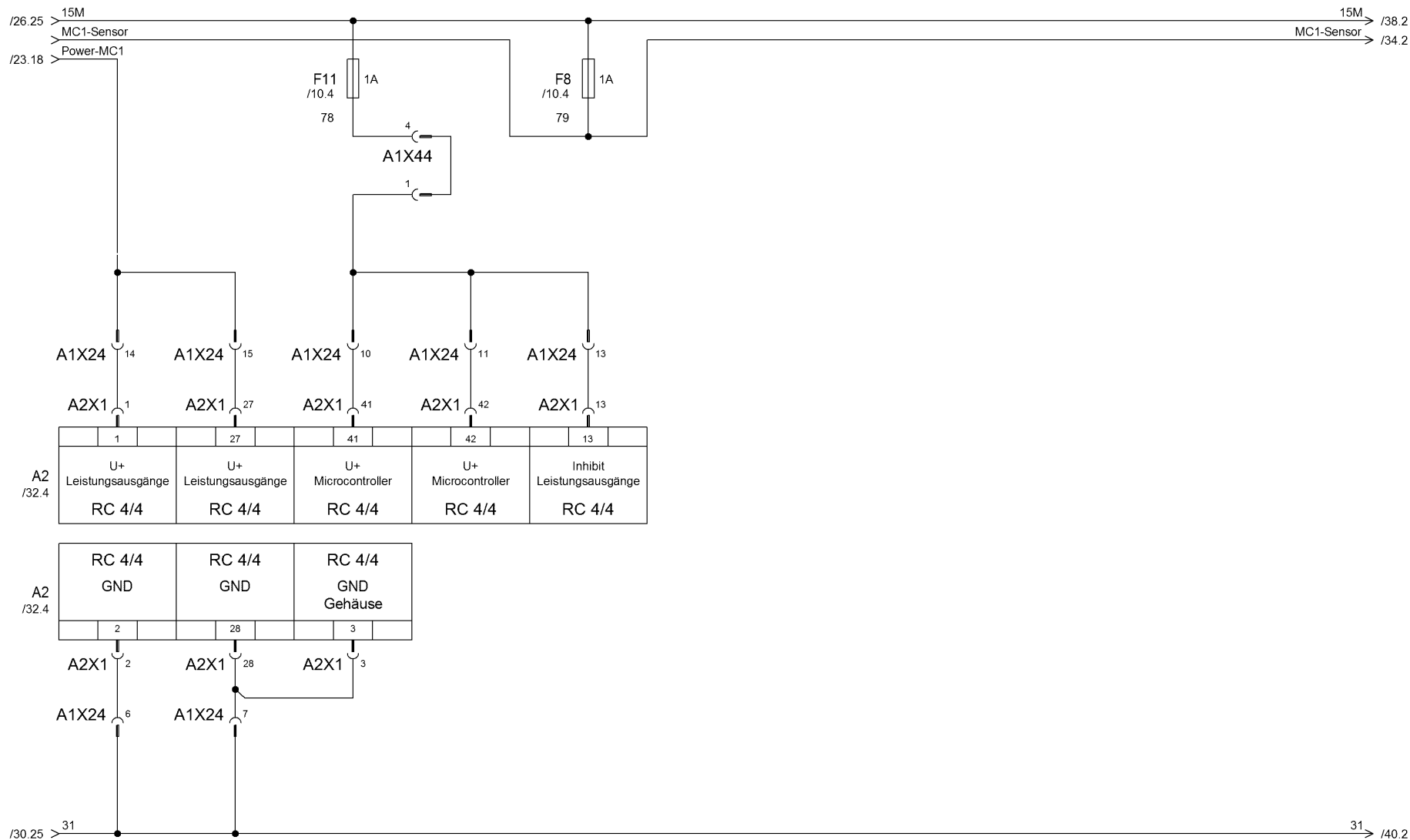
Projektbez.	Stromlaufplan HD120-140
Zeichnungsnummer	2130095
Rev.	01

Blatt

32

84

Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 14.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Power supply MC

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

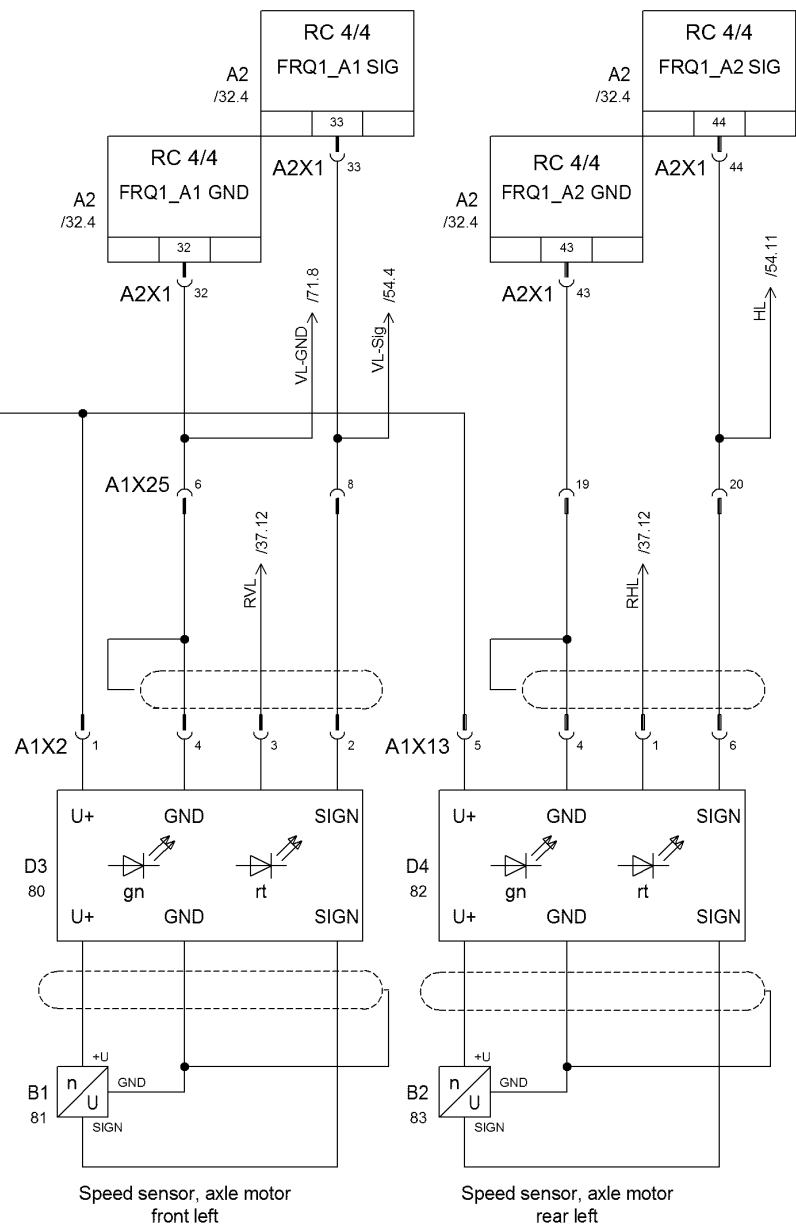
33

84

Bl.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

/33.24 > MC1-Sensor MC1-Sensor > /35.2



Änderung	Datum	Name	gez.	Datum	Name
a			gez.	17.07.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Frequency-Input 1A -3A

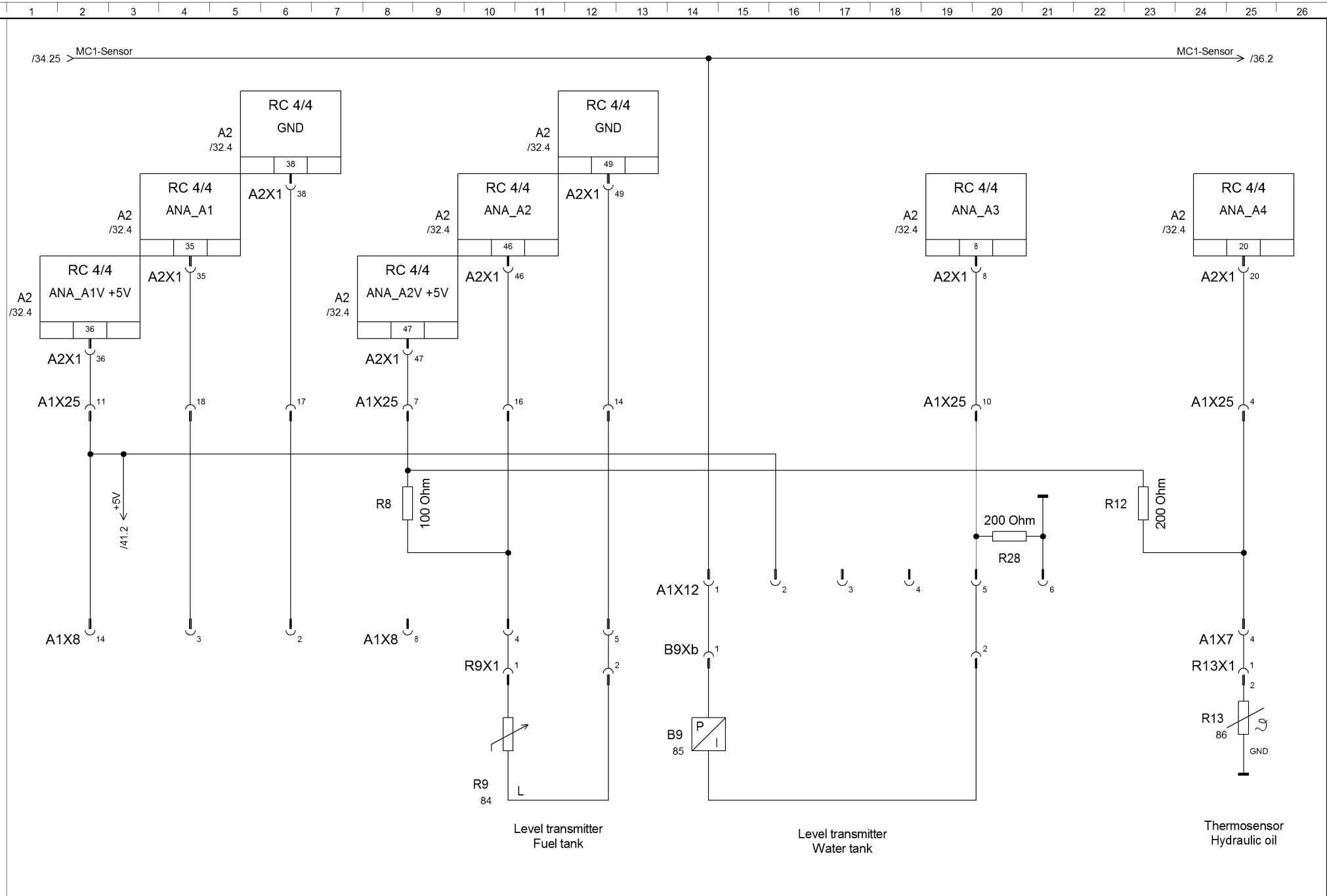
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

34

84 Bl.

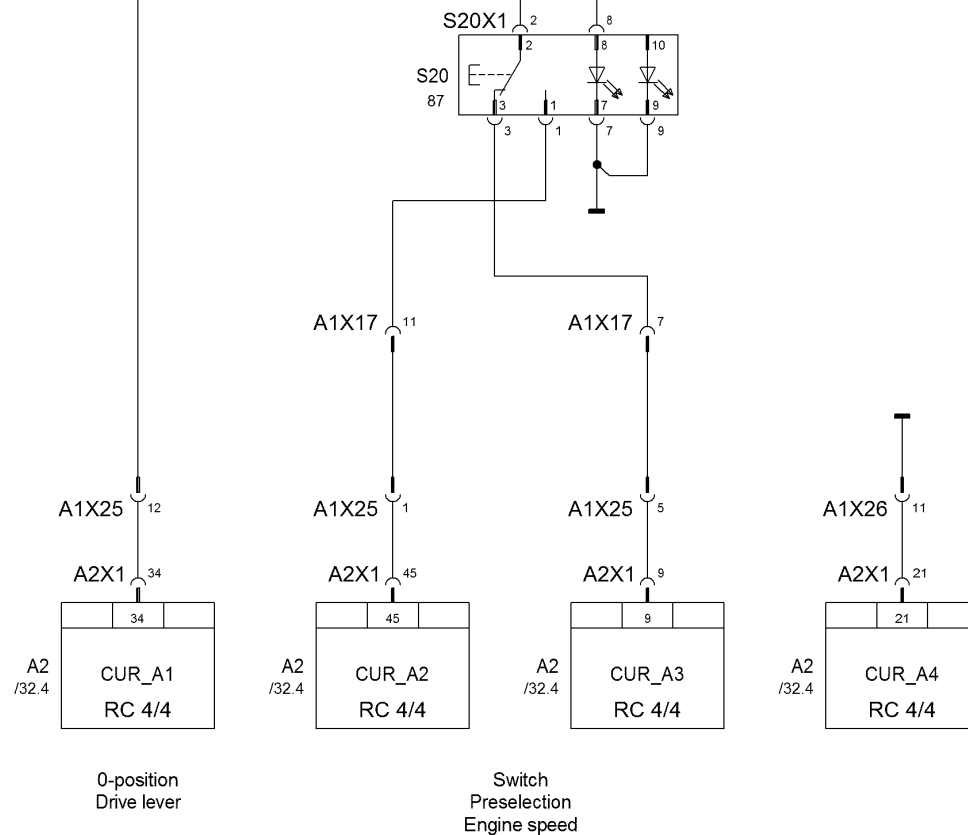
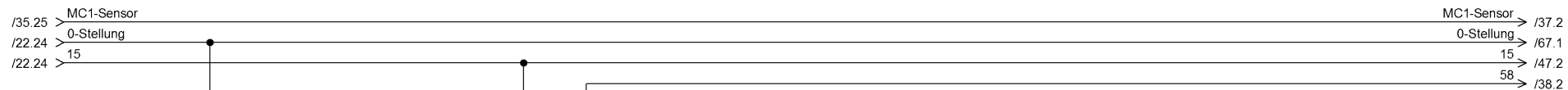


Änderung	Datum	Name	Datum	Name
a			gez. 17.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Analogue input

Projektbez.	Stromlaufplan HD120-140	Blatt	35
Zeichnungsnummer	2130095	Rev.	01
			84 Bl.



1 - 0 : Rated speed
0 - 1 : Maximal speed

Änderung	Datum	Name	Datum	Name
a			gez. 17.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Analogue input

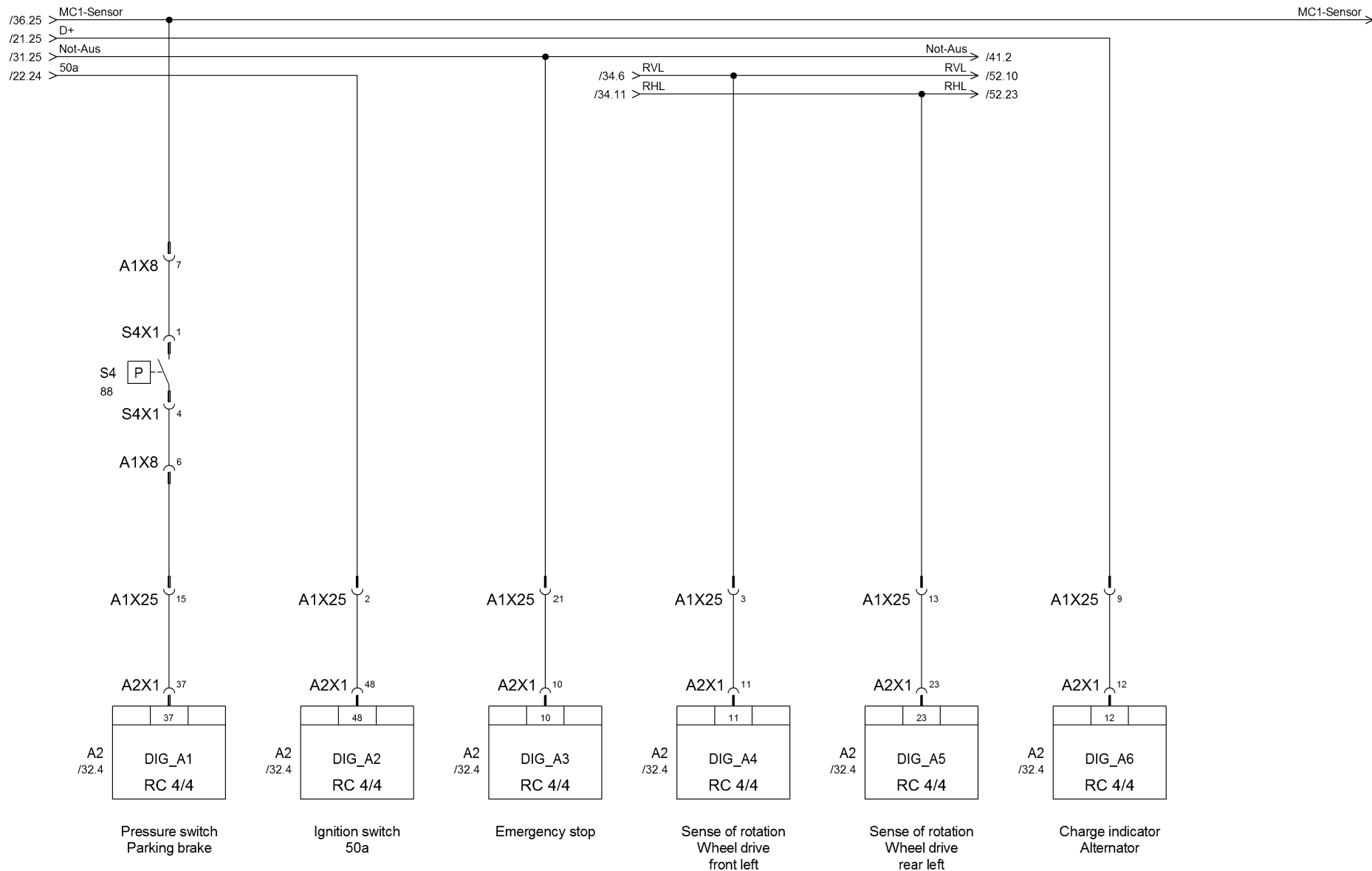
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

36

84

Bl.

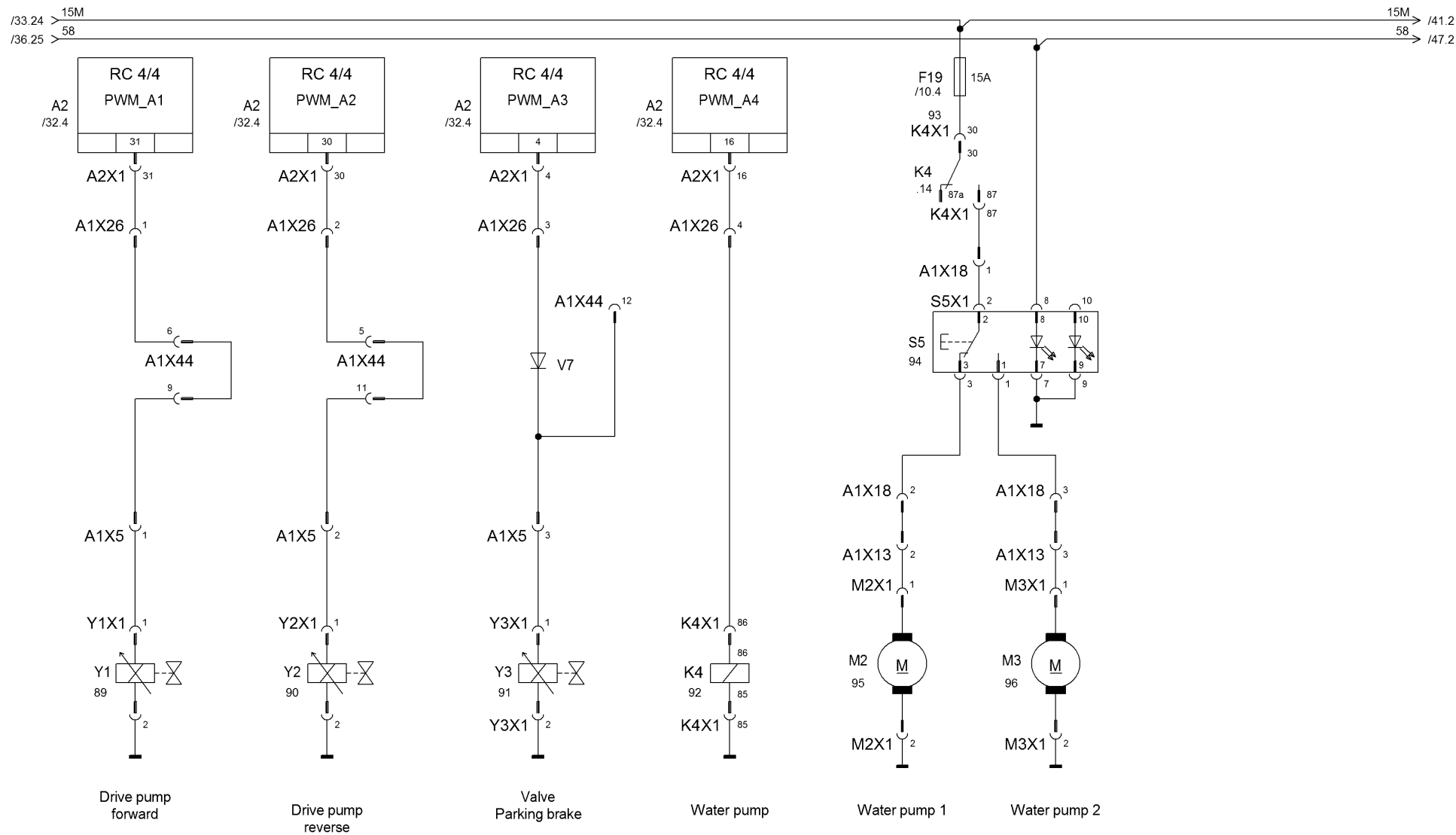


Änderung	Datum	Name		Datum	Name
a			gez.	17.07.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Digital input 1A - 6A

Projektbez.		Blatt	
Stromlaufplan HD120-140		37	
Zeichnungsnummer	Rev.		
2130095	01	84 Bl.	



87 -
87a 80 .17

Änderung	Datum	Name	Datum	Name
a			gez. 17.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



PWM-output 1A - 4A

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

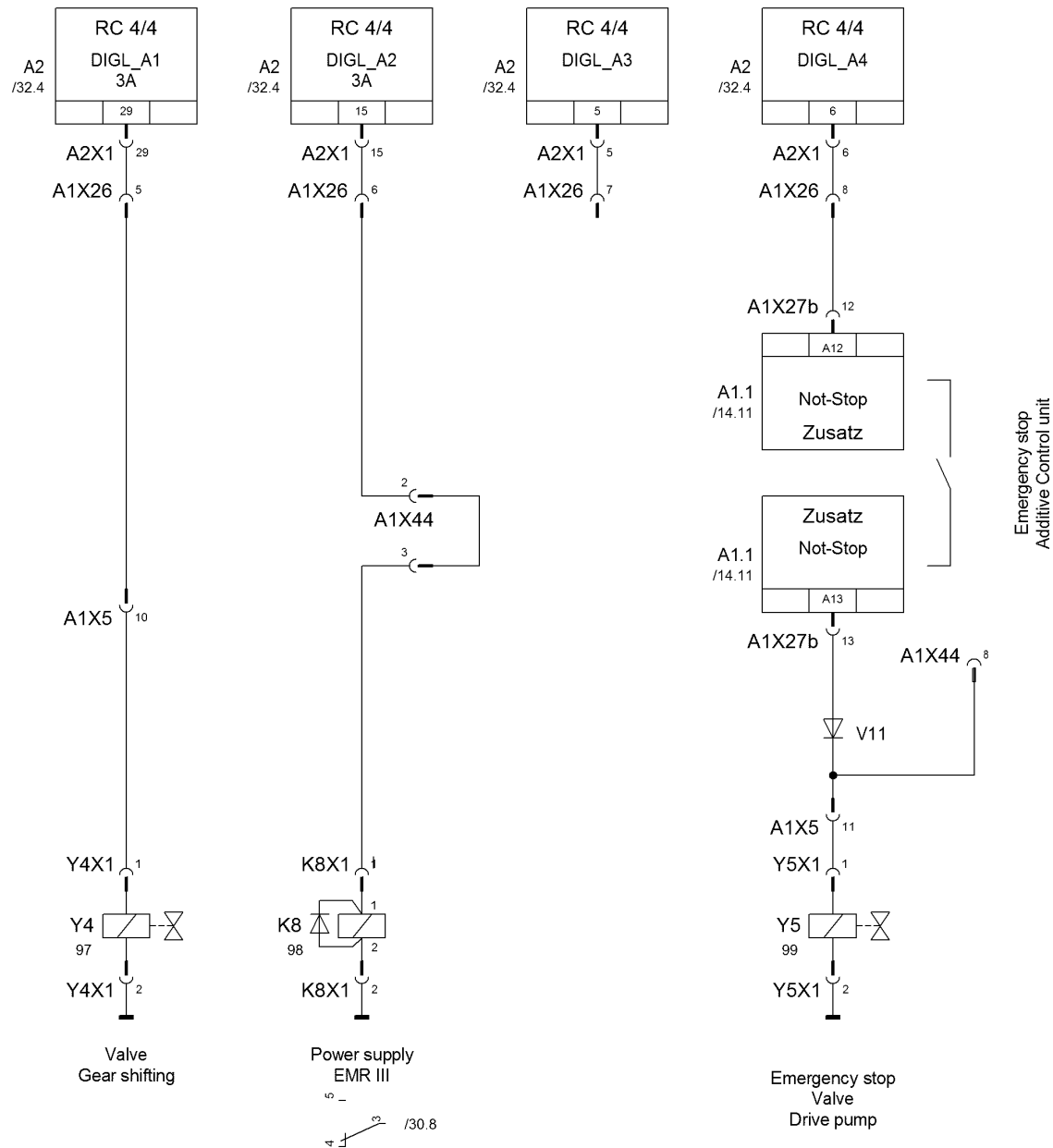
Rev.
01

Blatt

38

84

Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 17.07.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Digital output 1A - 4A

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

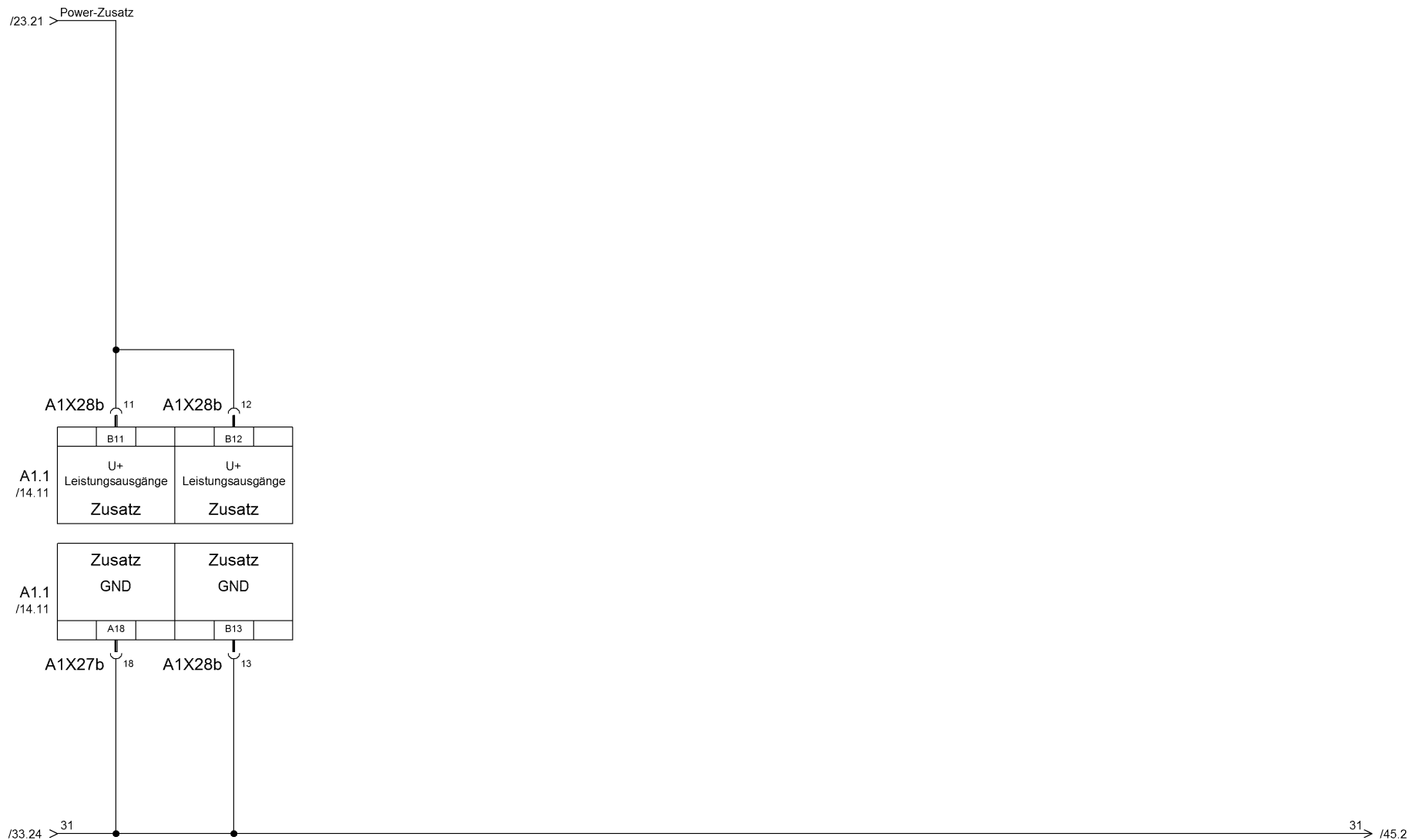
Rev.
01

Blatt

39

84

Bl.



Änderung	Datum	Name	Datum	Name
a		gez.	22.11.2006	Janke
b				
c		gepr.	03.07.2012	Schuller
d				



Power supply
Additive Control unit

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

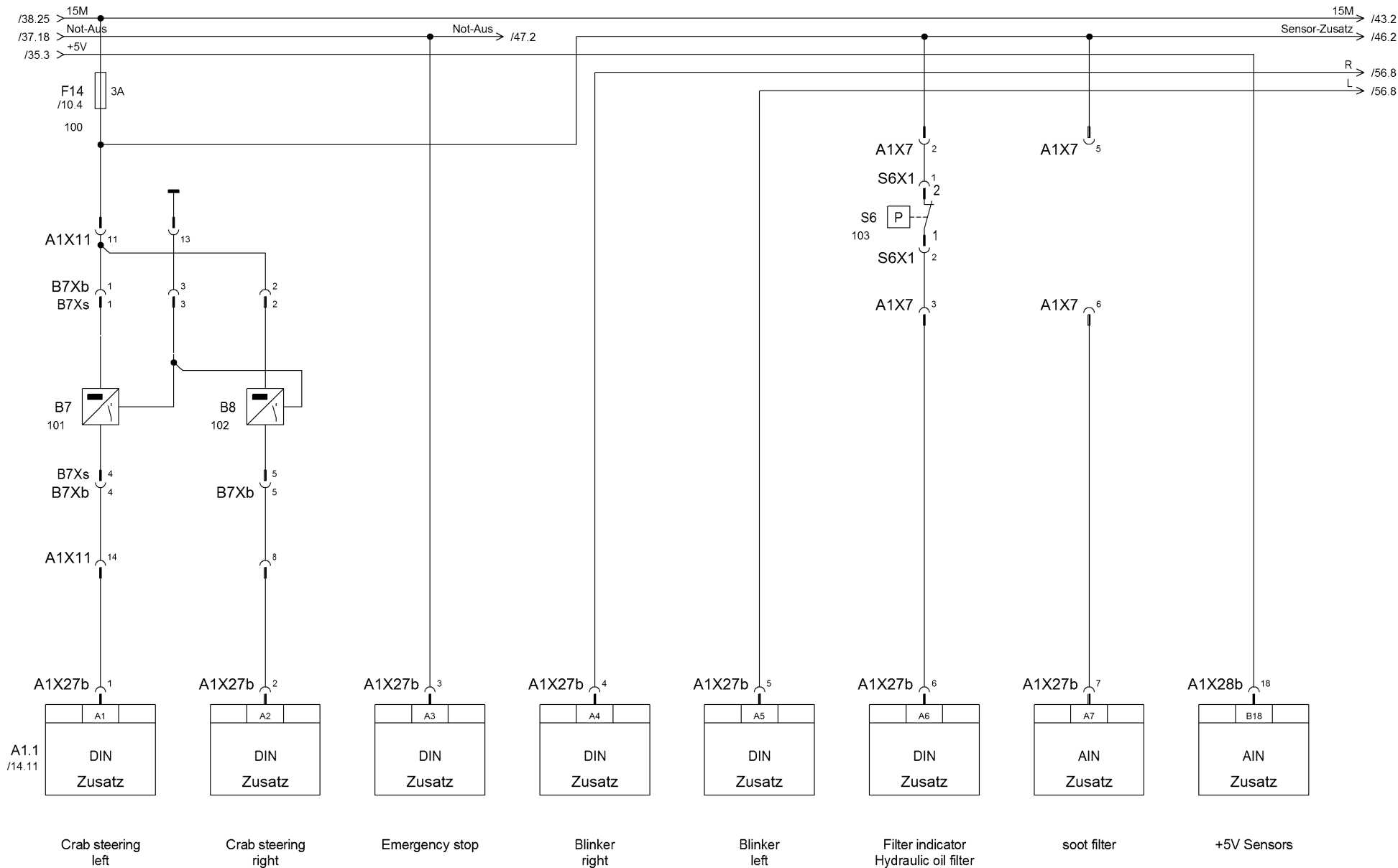
Rev.
01

Blatt

40

84

Bl.



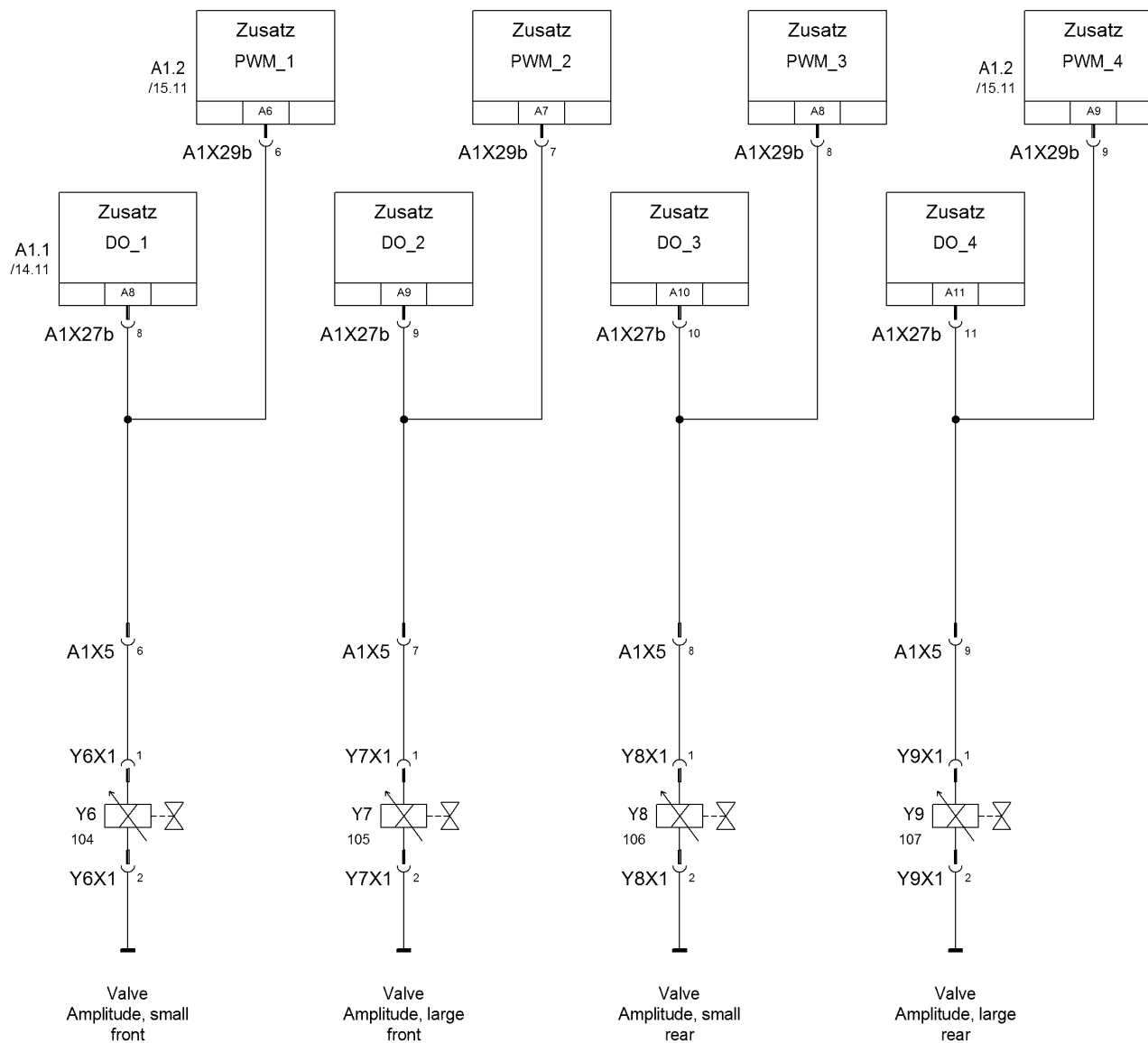
Änderung	Datum	Name	Datum	Name
a		gez.	14.11.2006	Janke
b		gepr.	03.07.2012	Schuller
c				
d				



Additive - Control unit
Flat bar - 1

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt
41
84 Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 14.11.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Additive - Control unit
Flat bar - 1

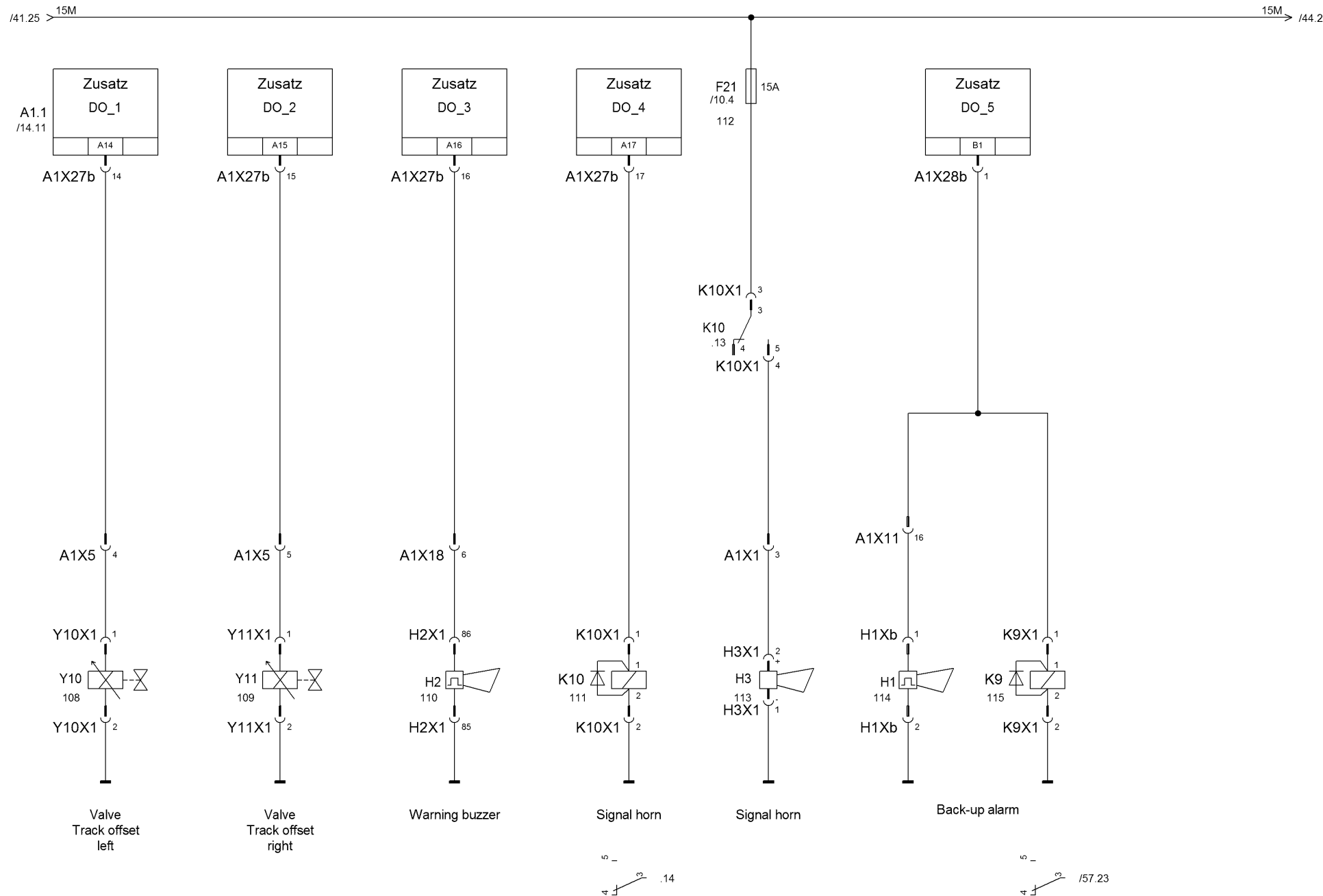
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

42

84

Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 14.11.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Additive - Control unit
Flat bar - 1

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

43

84

Bl.



WIRTTGEN
GROUP



Projektbez.	Stromlaufplan HD120-140
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Rev.
01

44

84	Bl.
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	Änderung	Datum	Name		Datum	Name
a				gez.	22.11.2006	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



Voltage supply
Additive Control unit

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

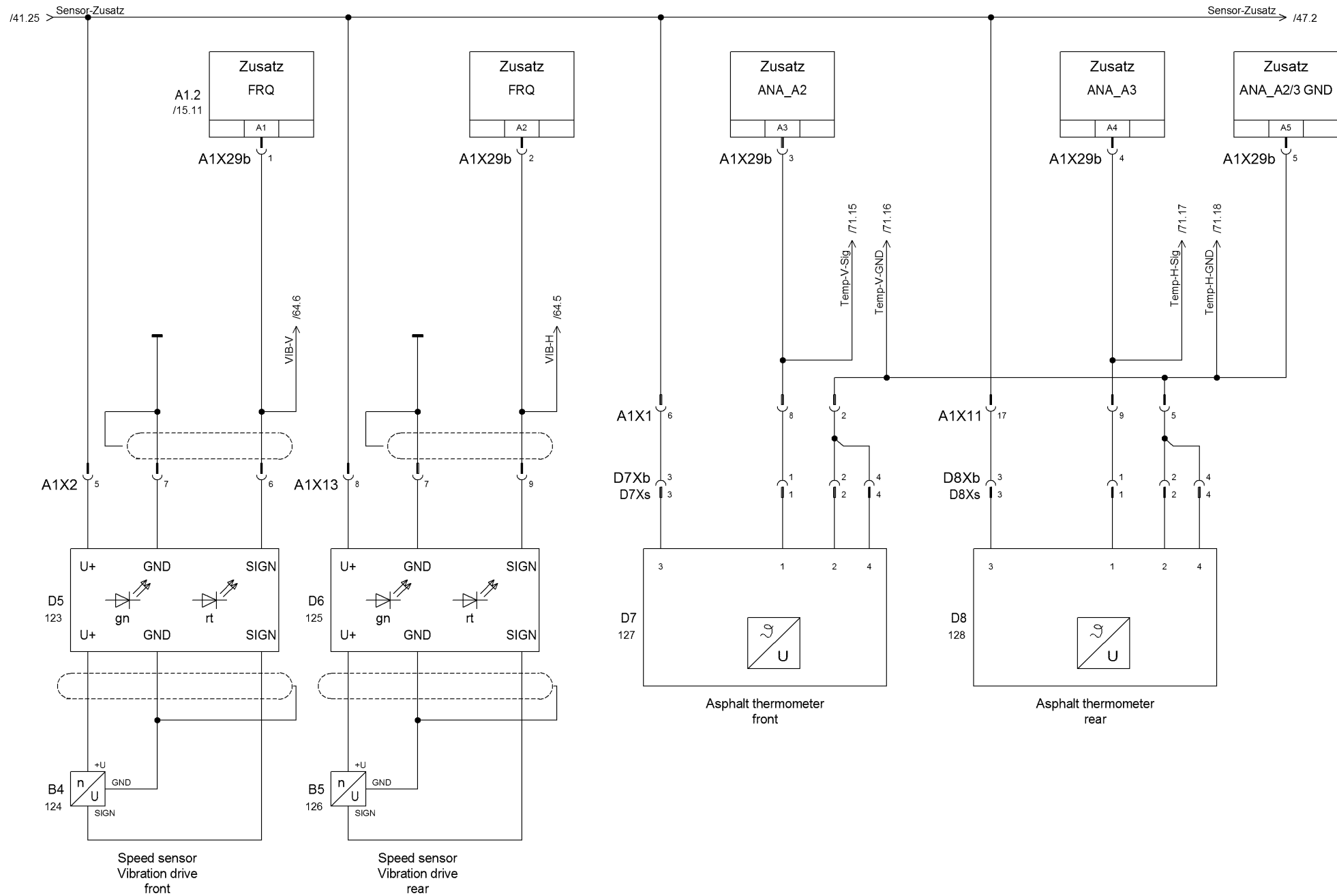
Rev.
01

Blatt

45

84

Bl.



Änderung	Datum	Name	Datum	Name
a			gez. 14.11.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



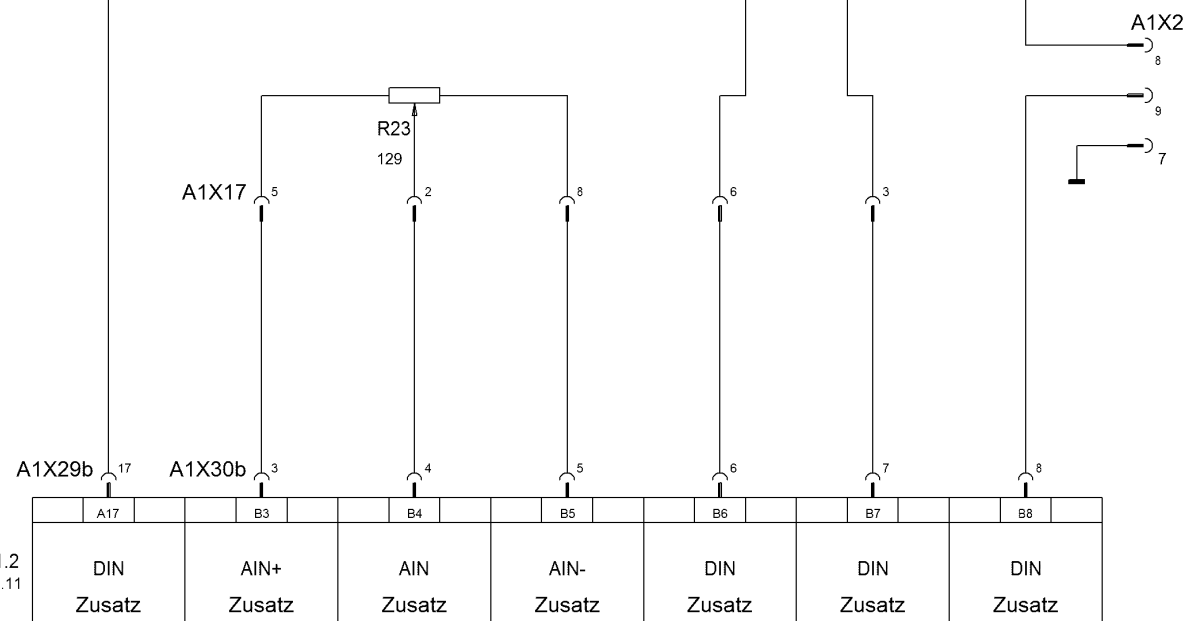
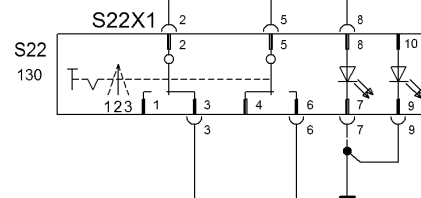
Additive - Control unit
Flat bar - 2

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt
46
84 Bl.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26



Emergency stop

Distribution potentiometer
Chip spreader

Chip spreader
open

Chip spreader
close

Chip spreader
Type

Änderung	Datum	Name	Datum	Name
a			gez. 23.11.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Additive - Control unit
Flat bar - 2

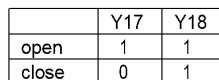
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

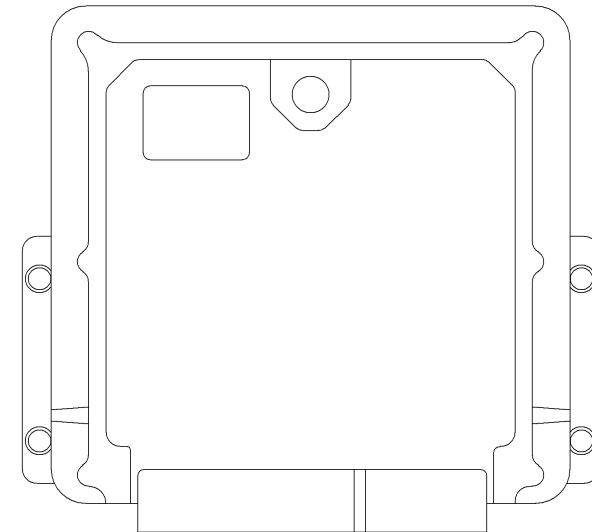
47

84 Bl.



	84
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A4			RC 4-4/20		
139					
U+ Power outputs	/50.2	1	+U Power outputs		
Earth	/50.2	2	GND		
Earth	/50.6	3	GND Housing		
ASC Valve rear left	/55.9	4	PWM-output - 3		
not used		5	Digital output - 3		
not used		6	Digital output - 4		
not used		7	Analogue-Output GND		
Driving direction front right	/52.15	8	Analogue input [U] 3		
	/52.17	9	Analogue input [I] 3		
	/54.10	10	Digital input - 3		
	/54.13	11	Digital input - 4		
	/54.19	12	Digital input - 6		
enable Power outputs Input	/50.10	13	Enable Power outputs in		
not used		14	Enable Power outputs out		
not used		15	Digital output - 2		
ASC Valve rear right	/55.12	16	PWM-output - 4		
	/51.14	17	GND Frequency-Input 3		
	/51.16	18	Frequency-Input 3		
Driving direction rear right	/53.4	19	Analogue input [U] 5		
Driving direction rear left	/52.22	20	Analogue input [U] 4		
	/52.24	21	Analogue input [I] 4		
not used		22	Analogue-Output Signal		
	/54.16	23	Digital input - 5		
GND RS232	/70.14	24	GND RS232		
CAN-L2	/69.24	25	CAN-L2		
CAN-H2	/69.22	26	CAN-H2		
U+ Power outputs	/50.4	27	+U Power outputs		
Earth	/50.4	28	GND		
not used		29	Digital output - 1		
ASC Valve front right	/55.5	30	PWM-output - 2		
ASC Valve front left	/55.2	31	PWM-output - 1		
	/51.4	32	GND Frequency-Input 1		
	/51.6	33	Frequency-Input 1		
Angle sensorPivoted steering	/52.5	34	Analogue input [I] 1		
Angle sensorPivoted steering	/52.3	35	Analogue input [U] 1		
Angle sensorPivoted steering	/52.1	36	5V Voltage supply - 1		
	/54.3	37	Digital input - 1		
	/53.6	38	GND Voltage supply - 1		
CAN-L1	/69.20	39	CAN-L1		
CAN-H1	/69.18	40	CAN-H1		
U+ Electronic system	/50.6	41	Voltage supply Electronic system		
U+ Electronic system	/50.8	42	Voltage supply Electronic system		
	/51.9	43	GND Frequency-Input 2		
	/51.11	44	Frequency-Input 2		
	/52.11	45	Analogue input [I] 2		
Driving direction front left	/52.9	46	Analogue input [U] 2		
Voltage supply 5VDC	/52.7	47	5V Voltage supply - 2		
	/54.6	48	Digital input - 2		
Voltage supply 0VDC	/53.8	49	GND Voltage supply - 2		
RxD RS232	/70.13	50	RxD RS232		
TxD RS232	/70.12	51	TxD RS232		
Bootstrap	/70.16	52	Bootstrap		



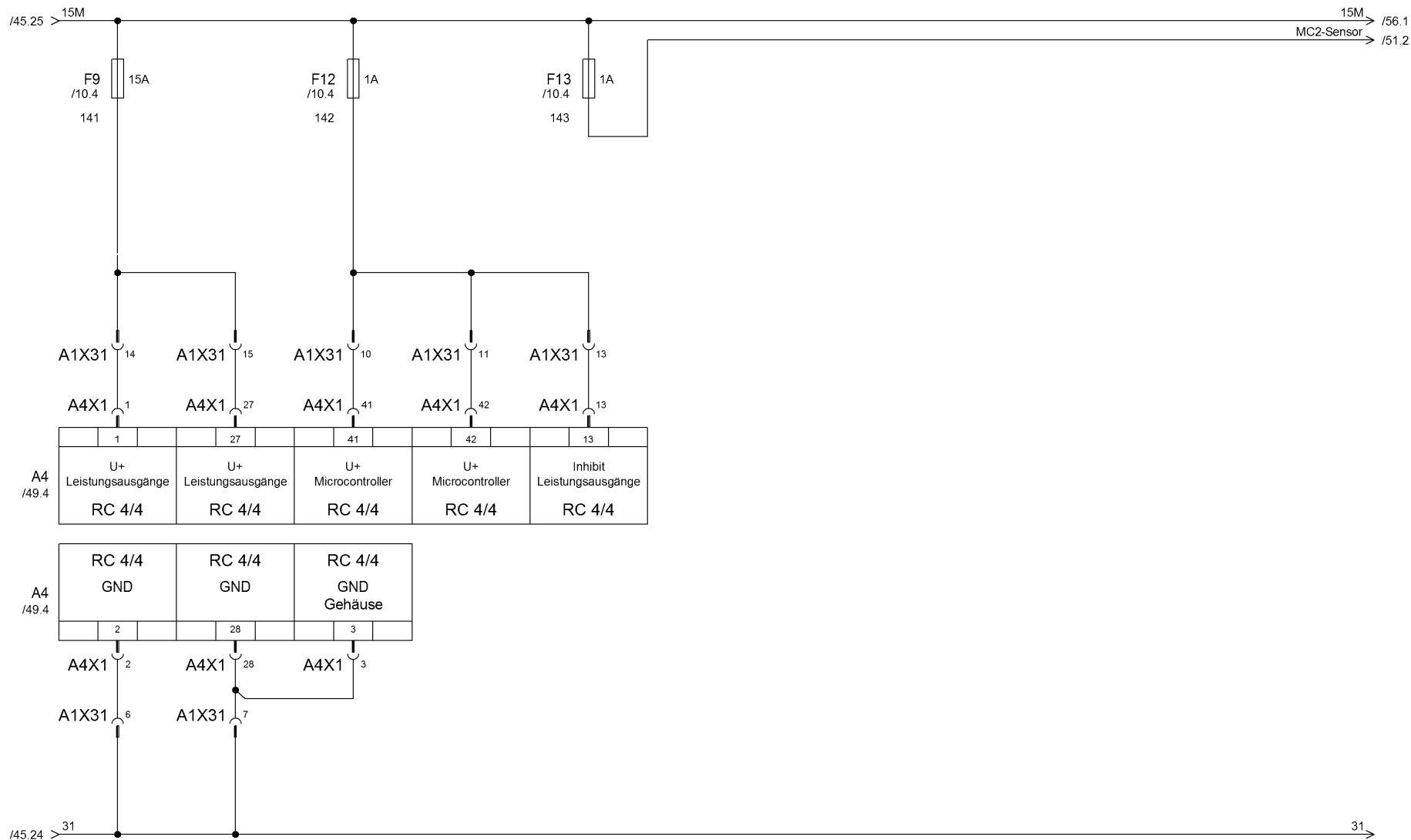
140		A4X1	
1:	/50.3	27:	/50.5
2:	/50.3	28:	/50.5
3:	/50.7	29:	
4:	/55.10	30:	/55.6
5:		31:	/55.3
6:		32:	/51.5
7:		33:	/51.7
8:	/52.16	34:	/52.6
9:		35:	/52.4
10:	/54.11	36:	/52.2
11:	/54.14	37:	/54.4
12:	/54.20	38:	
13:	/50.11	39:	/69.21
14:		40:	/69.19
15:		41:	/50.7
16:	/55.13	42:	/50.9
17:	/51.15	43:	/51.10
18:	/51.17	44:	/51.12
19:	/53.5	45:	
20:	/52.23	46:	/52.10
21:	/52.25	47:	
22:		48:	/54.7
23:	/54.17	49:	
24:	/70.15	50:	/70.14
25:	/69.25	51:	/70.13
26:	/69.23	52:	/70.17

	Änderung	Datum	Name		Datum	Name
a				gez.	09.10.2006	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



General arrangement MC

Projektbez.		Stromlaufplan HD120-140	
Zeichnungsnummer	Rev.		
2130095	01		



Änderung	Datum	Name	Datum	Name
a			gez. 09.10.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Voltage supply
MC ASC

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

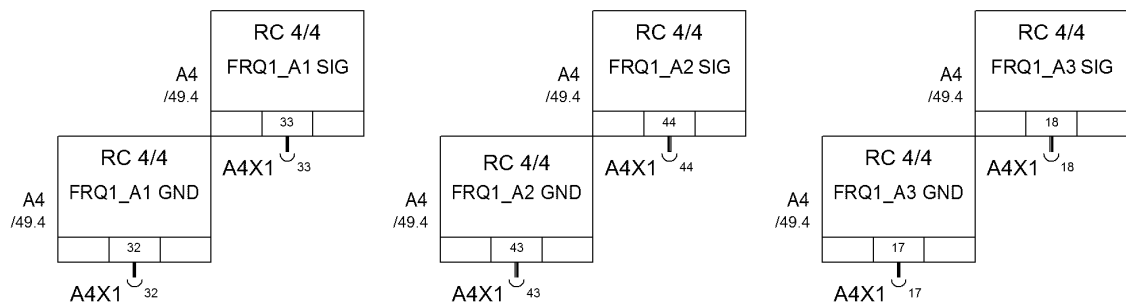
Rev.
01

Blatt

50

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Bl.

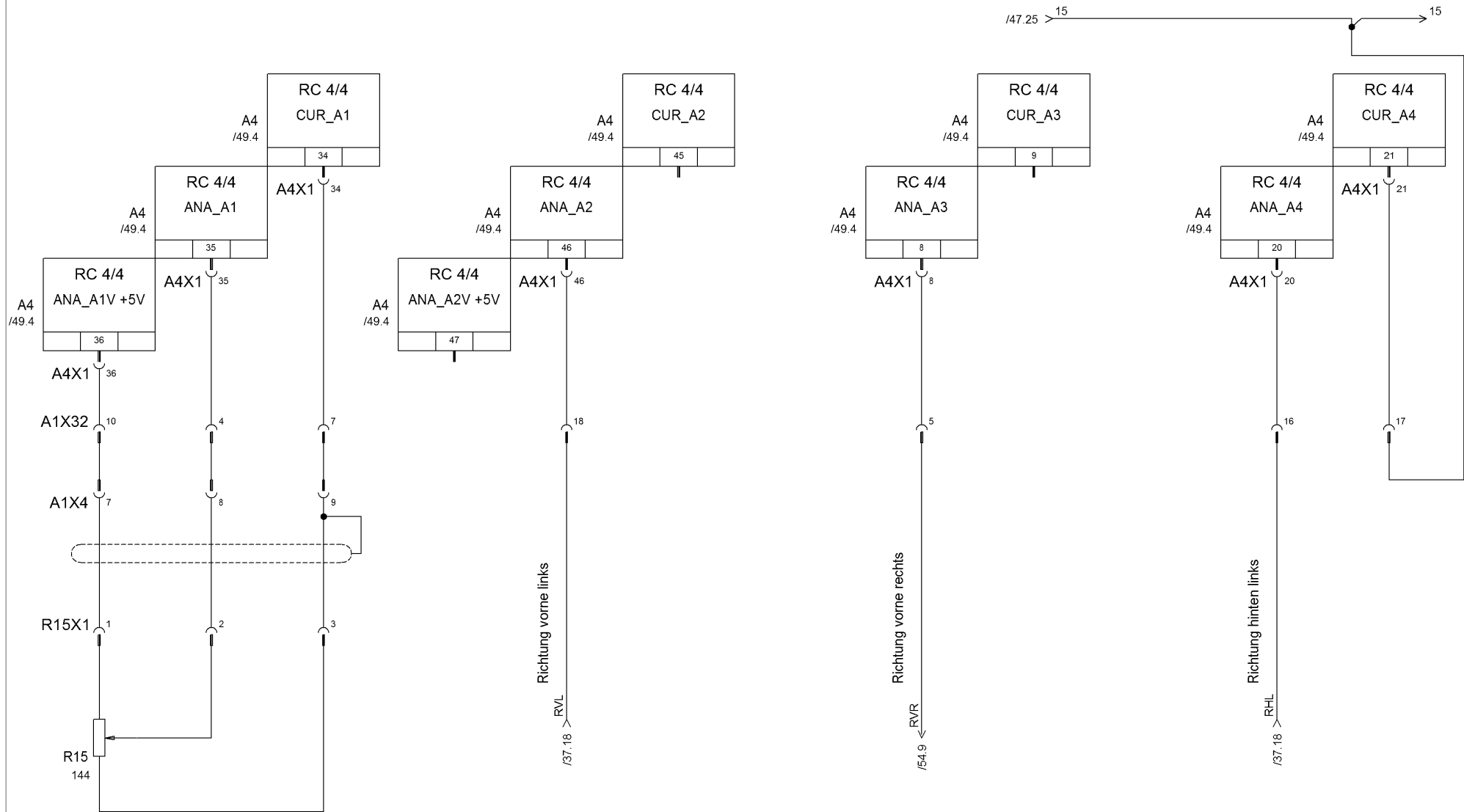


Änderung	Datum	Name		Datum	Name
a			gez.	09.10.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Frequency-Input 1A - 3A
 MC ASC

Projektbez.		Stromlaufplan HD120-140		Blatt
Zeichnungsnummer		Rev.		51
2130095		01		
				84 Bl.



Änderung	Datum	Name		Datum	Name
a			gez.	09.10.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Analogue input 1A - 4A
MC ASC

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

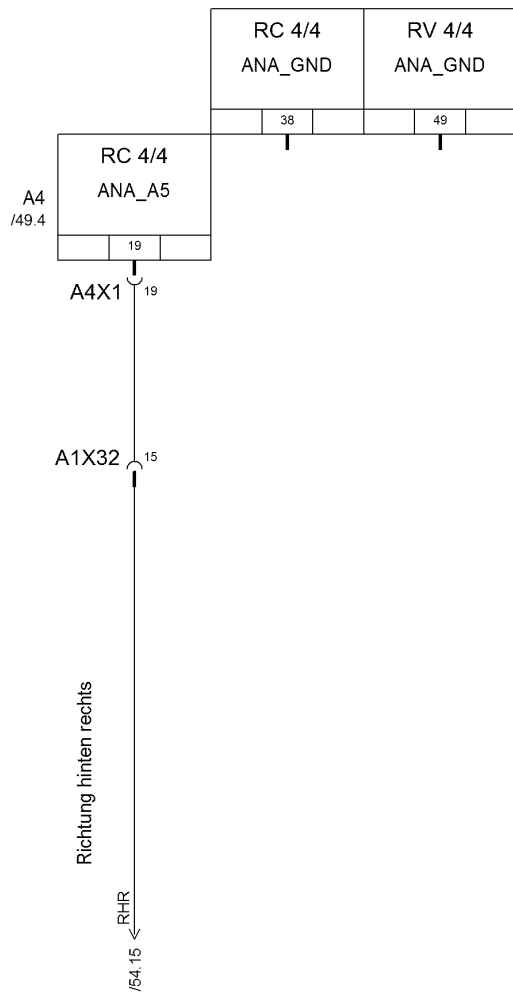
Blatt

52

84

Bl.

Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten



Änderung	Datum	Name	Datum	Name
a		gez.	09.10.2006	Janke
b				
c		gepr.	03.07.2012	Schuller
d				



Analogue input 5A
MC ASC

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

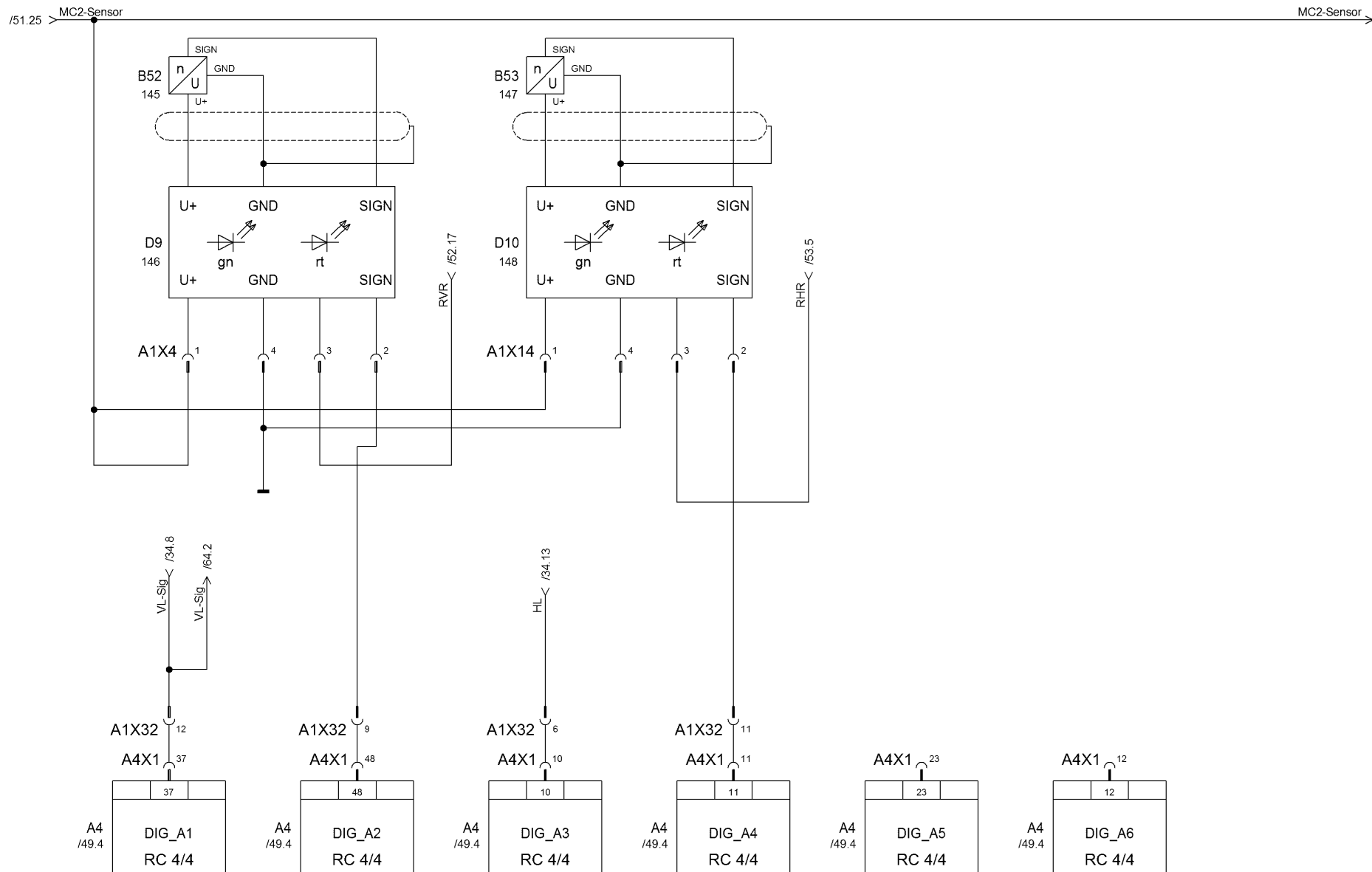
Blatt

53

84

Bl.

Plotdatum: 30.01.2015



B52: Speed sensor front right

B53: Speed sensor rear right

Änderung	Datum	Name	Datum	Name
a			gez. 09.10.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



**Digital input 1A - 6A
MC ASC**

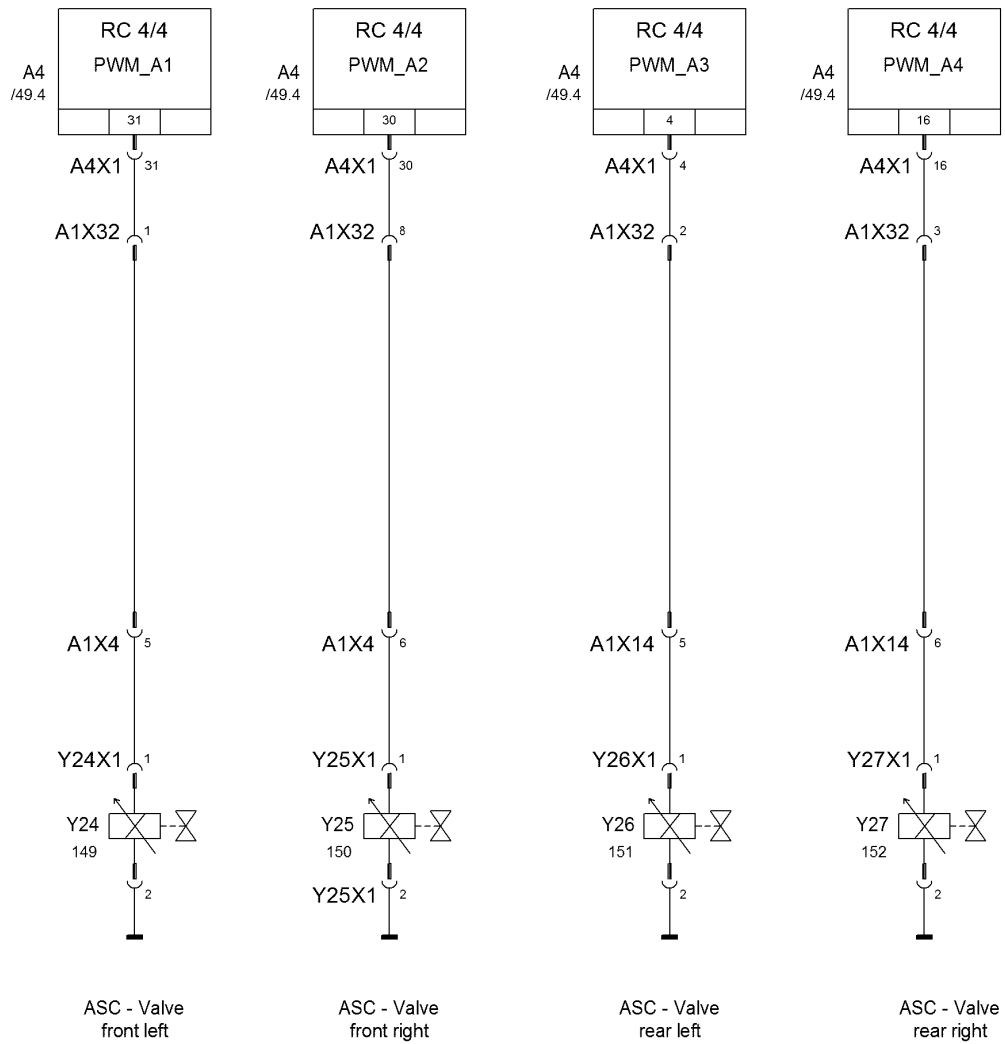
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

54

84

Bl.



Änderung	Datum	Name		Datum	Name
a			gez.	09.10.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



PWM-output 1A - 4A
MC ASC

Projektbez.
 Stromlaufplan HD120-140
 Zeichnungsnummer
2130095

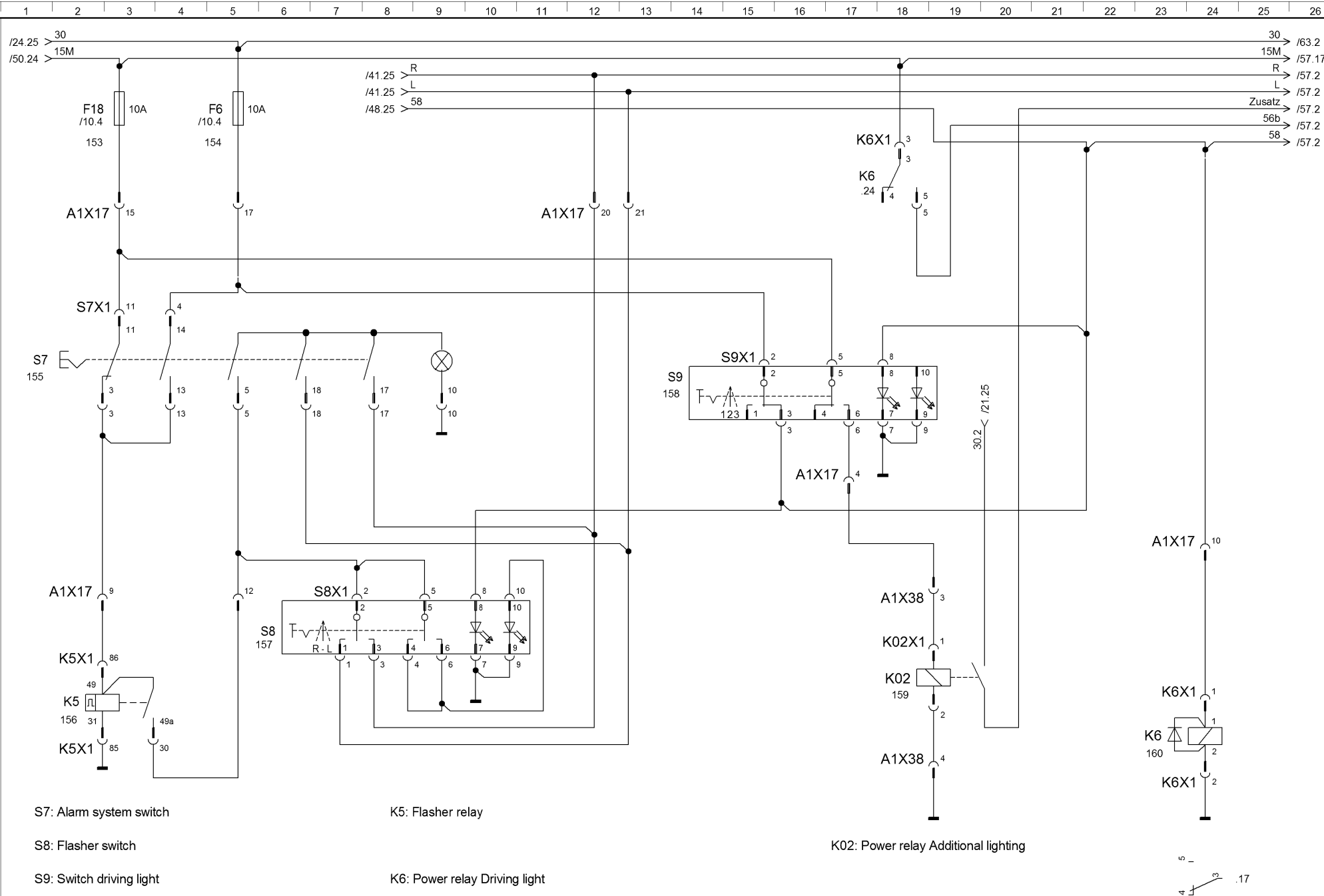
Rev.
01

Blatt

55

84

Bl.



Änderung	Datum	Name	Datum	Name
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b				
c			gepr. 03.07.2012	Schuller
d				



Blinker & Lighting STVZO 1

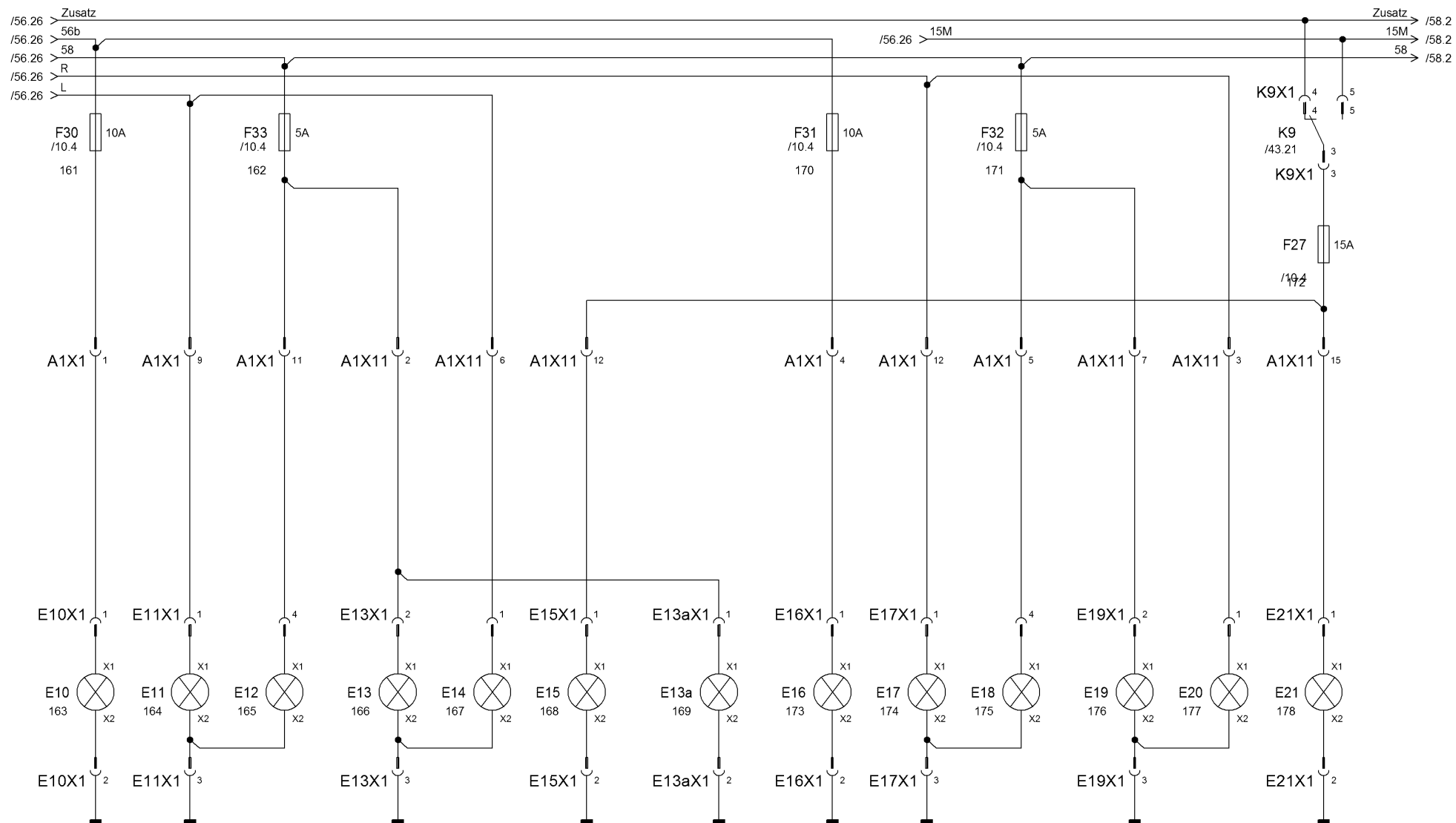
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

Rev.
01

Blatt

56

84 Bl.



E13a: homologation italy (option)

E10: Driving light left

E13: Parking light rear left

E16: Driving light right

E19: Parking light rear right

E11: Blinker front left

E14: Blinker rear left

E17: Blinker front right

E20: Blinker rear right

E12: Parking light front left

E15: Back-up light left

E18: Parking light front right

E21: Back-up light right

Änderung	Datum	Name		Datum	Name
a			gez.	31.10.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Lighting STVZO 1

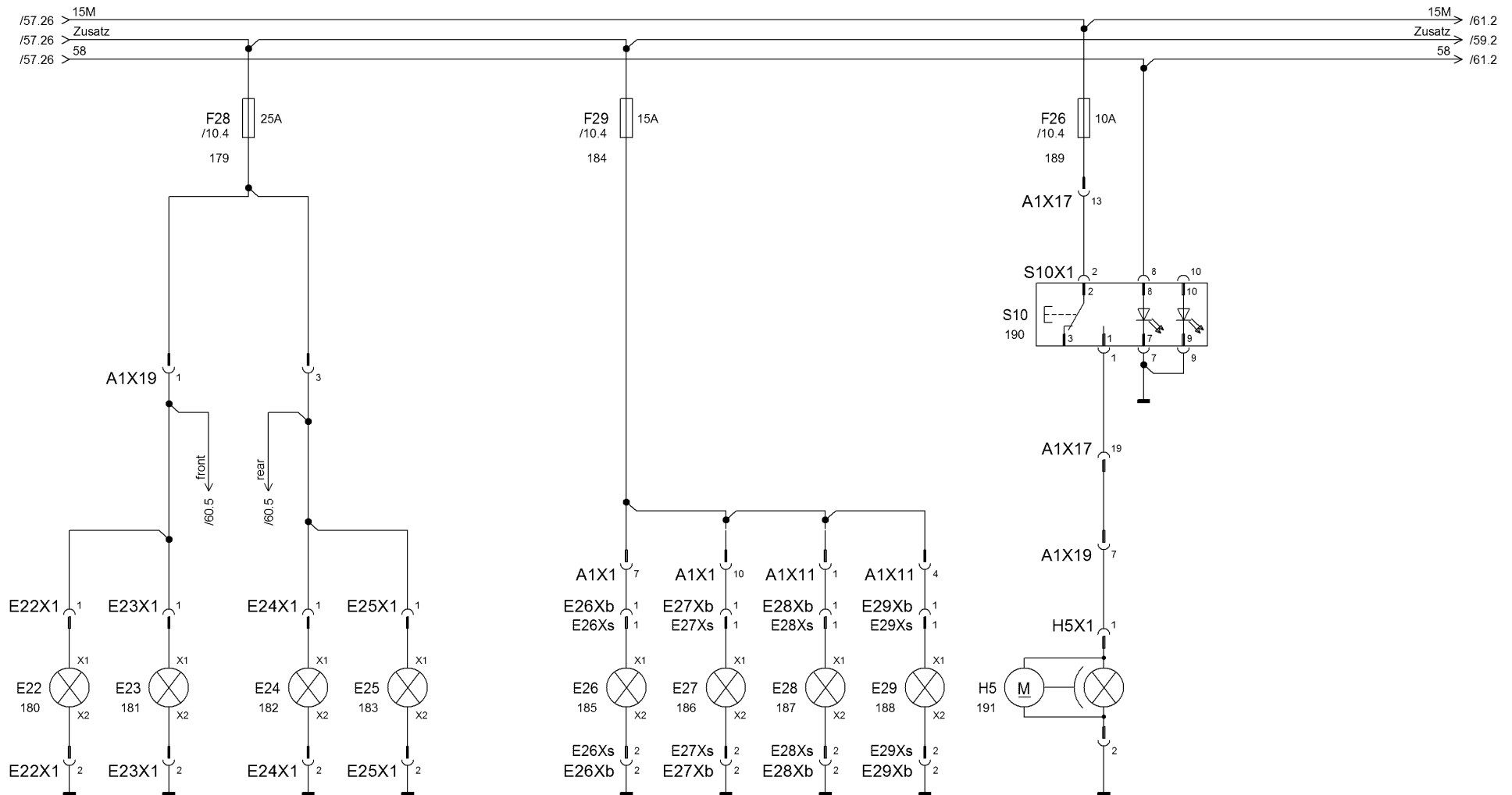
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

57

84

Bl.



E22: Additional lighting Operator's cabin

E26: Drum lighting Page front left

E27: Drum lighting Page front right

E28: Drum lighting Page rear left

E29: Drum lighting Page rear right

S10: Switch Rotating-beam light

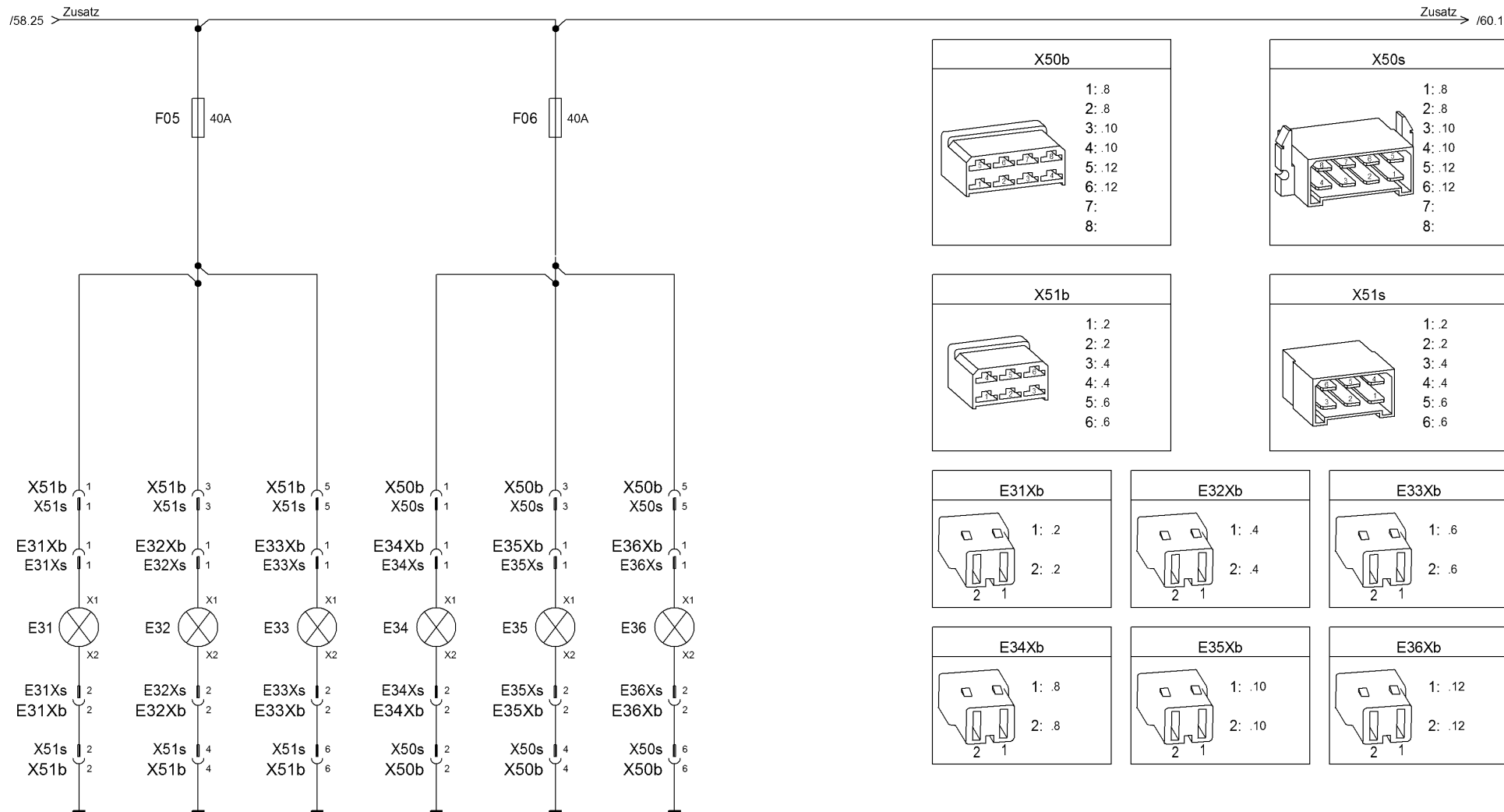
H5: Rotating-beam light

Änderung	Datum	Name	Datum	Name
a			gez. 31.10.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Additional lighting

Projektbez. Stromlaufplan HD120-140		Blatt
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E31-E33: Additional lighting ROPS/FOPS front

E34-E36: Additional lighting ROPS/FOPS rear

Änderung	Datum	Name	Datum	Name
a			gez. 10.05.2010	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Additional lighting ROPS/FOPS

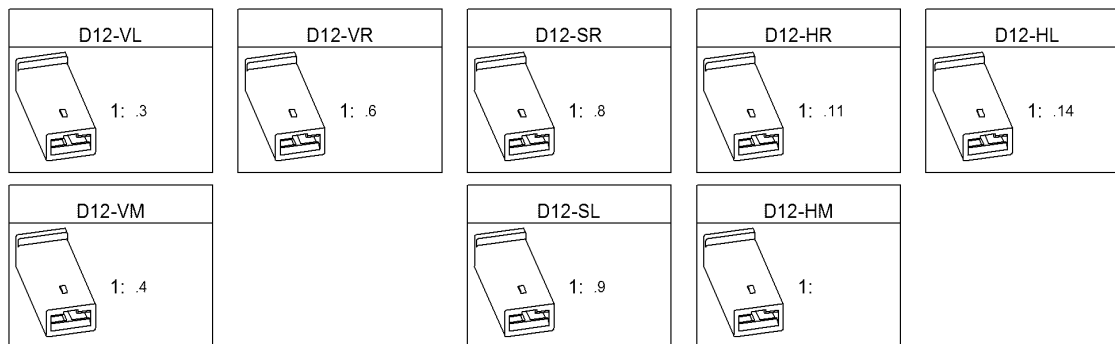
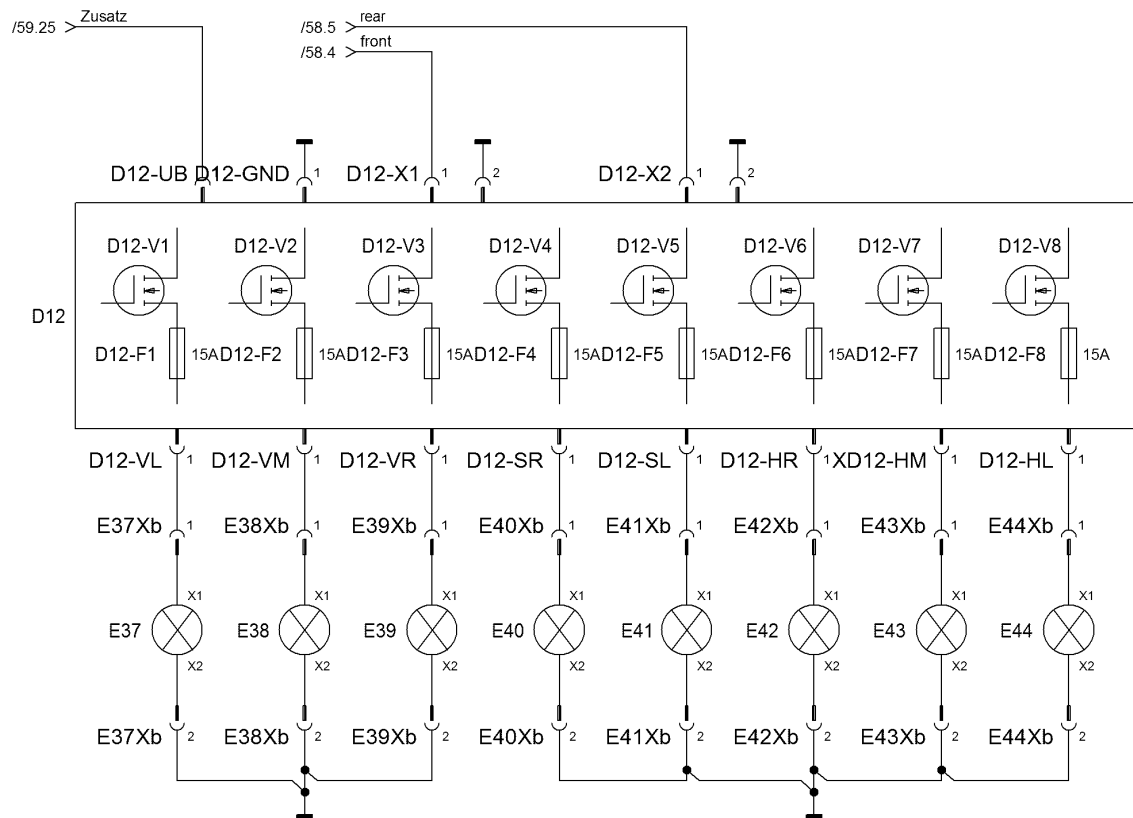
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

59

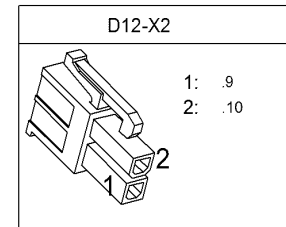
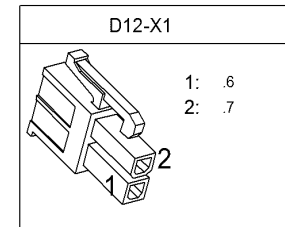
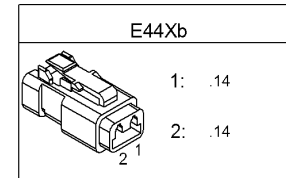
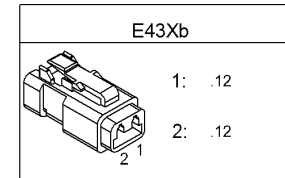
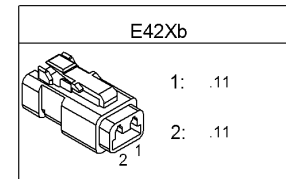
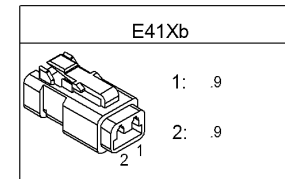
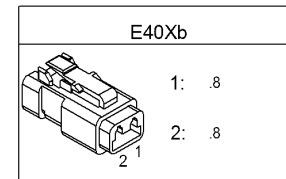
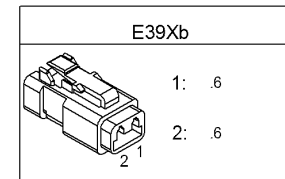
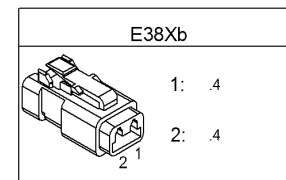
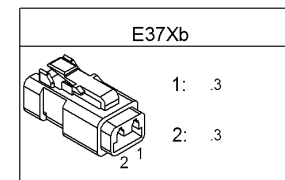
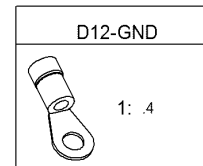
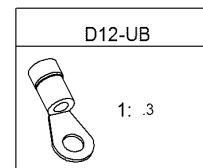
84

Bl.



E37-E39: Additional lighting XENON ROPS FOPS front

E40-E44: Additional lighting XENON ROPS FOPS rear



Änderung	Datum	Name	gez.	Datum	Name
a			gez.	10.05.2010	Janke
b			gepr.	03.07.2012	Schuller
c					
d					



Additional lighting XENON ROPS/FOPS

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

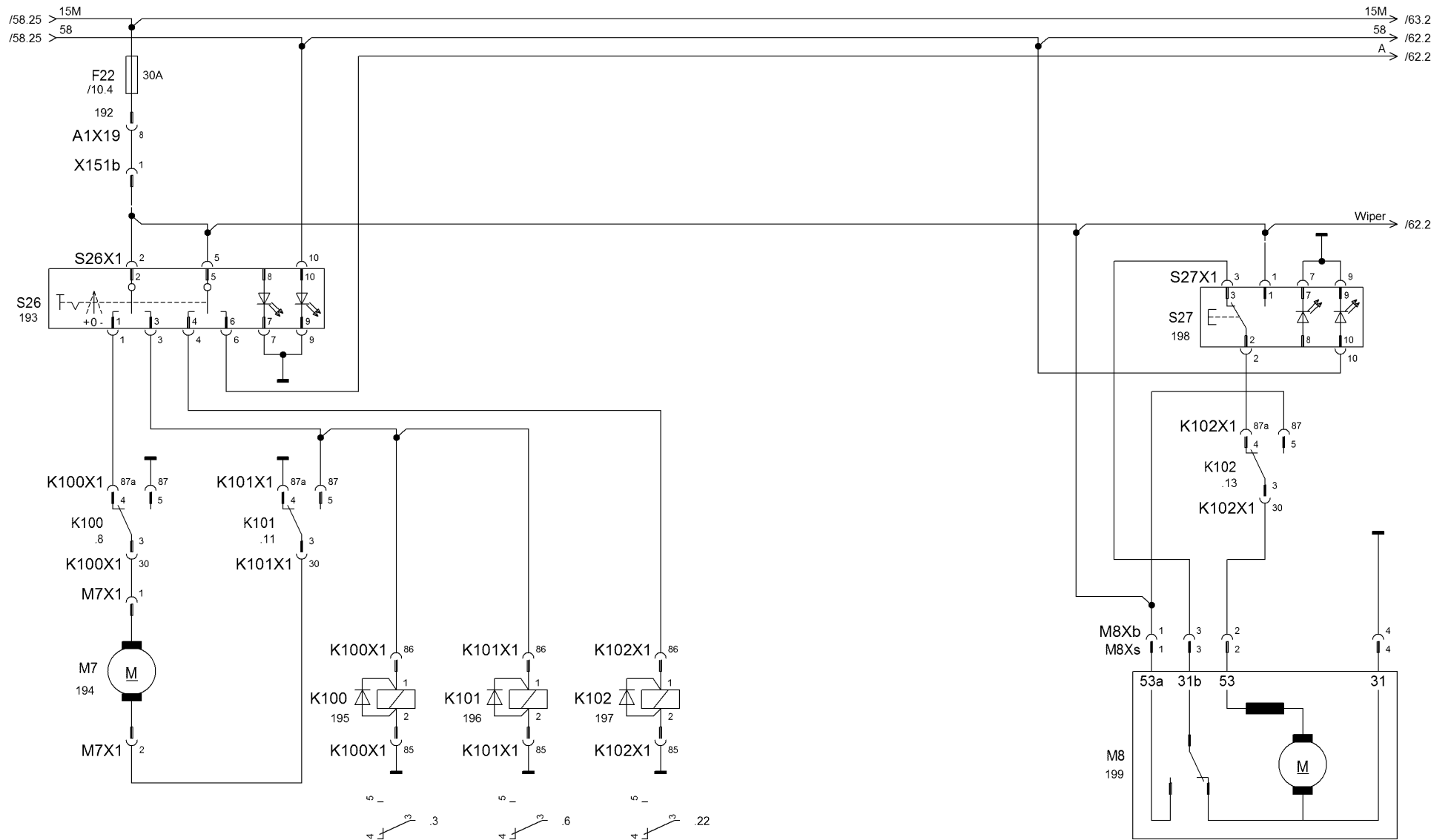
Rev.
01

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Bl.



S26: Windshield washer front rear

M7: Pump, windshield washer

K100: Relay Windshield washer front

K101: Relay Windshield washer rear

K102: Relay Windshield washer front

K103: Relay Windshield washer rear

M8: Wiper motor front

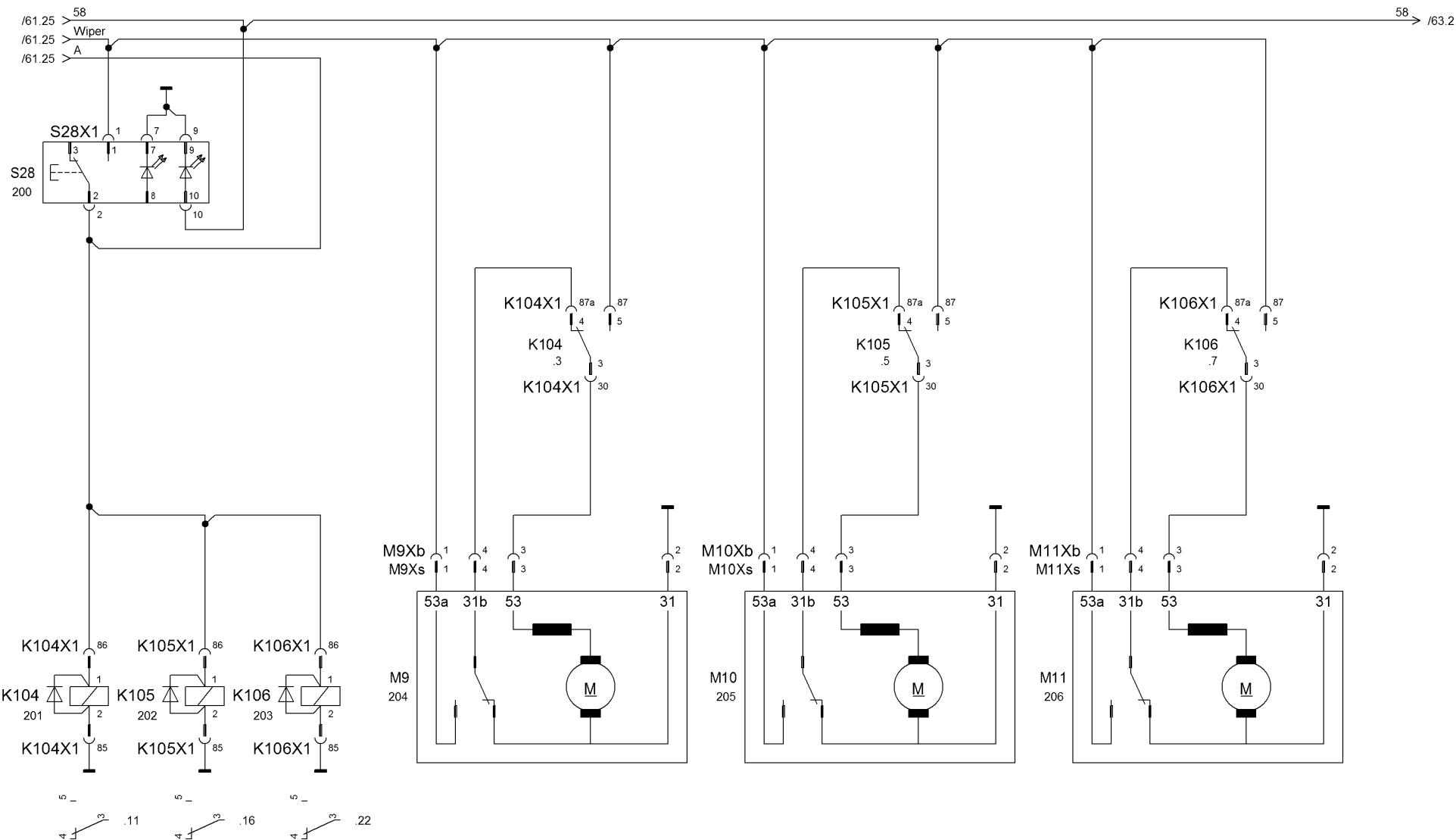
S27: Windshield wiper, front

Änderung	Datum	Name	gez.	Datum	Name
a				31.10.2006	Janke
b					
c				03.07.2012	Schuller
d					



Windshield washer

Projektbez.	Stromlaufplan HD120-140	Blatt	61
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S28: Windshield wiper, rear
K104: Relay Wiper motor rear left
K105: Relay Wiper motor rear right
K106: Relay Wiper motor rear

M9: Wiper motor rear

M10: Wiper motor rear

M11: Wiper motor rear

Änderung	Datum	Name	Datum	Name
a			gez. 16.05.2007	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Windshield washer

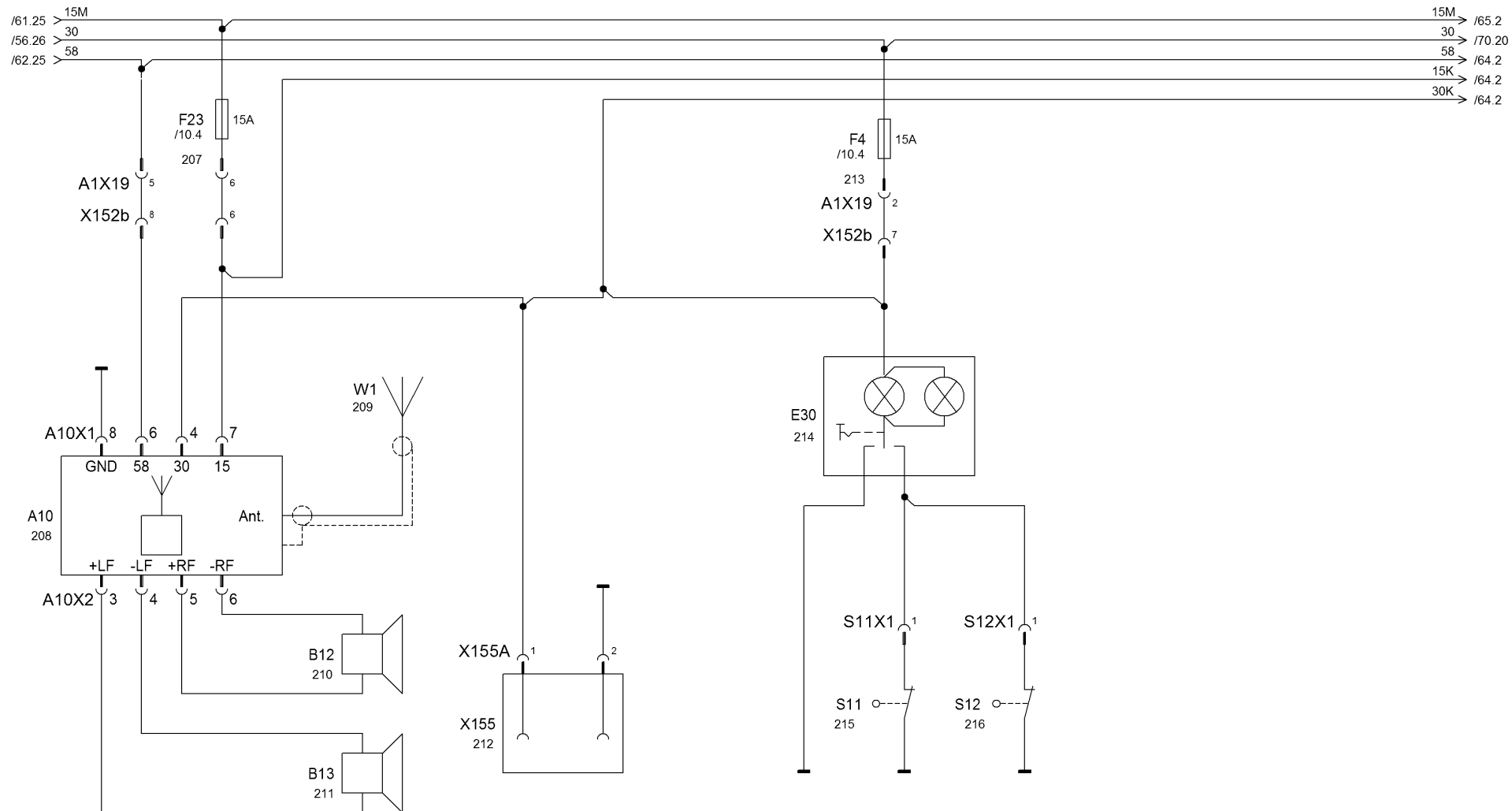
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
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Bl.



A10: Radio assembly

B12: Loudspeaker left

B13: Loudspeaker right

W1: Antenna

X1: Built-in socket

E30: Cab lighting

S11: Door contact switch left

S12: Door contact switch right

Änderung	Datum	Name	Datum	Name
a			gez. 31.10.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Cab lighting Radio assembly

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

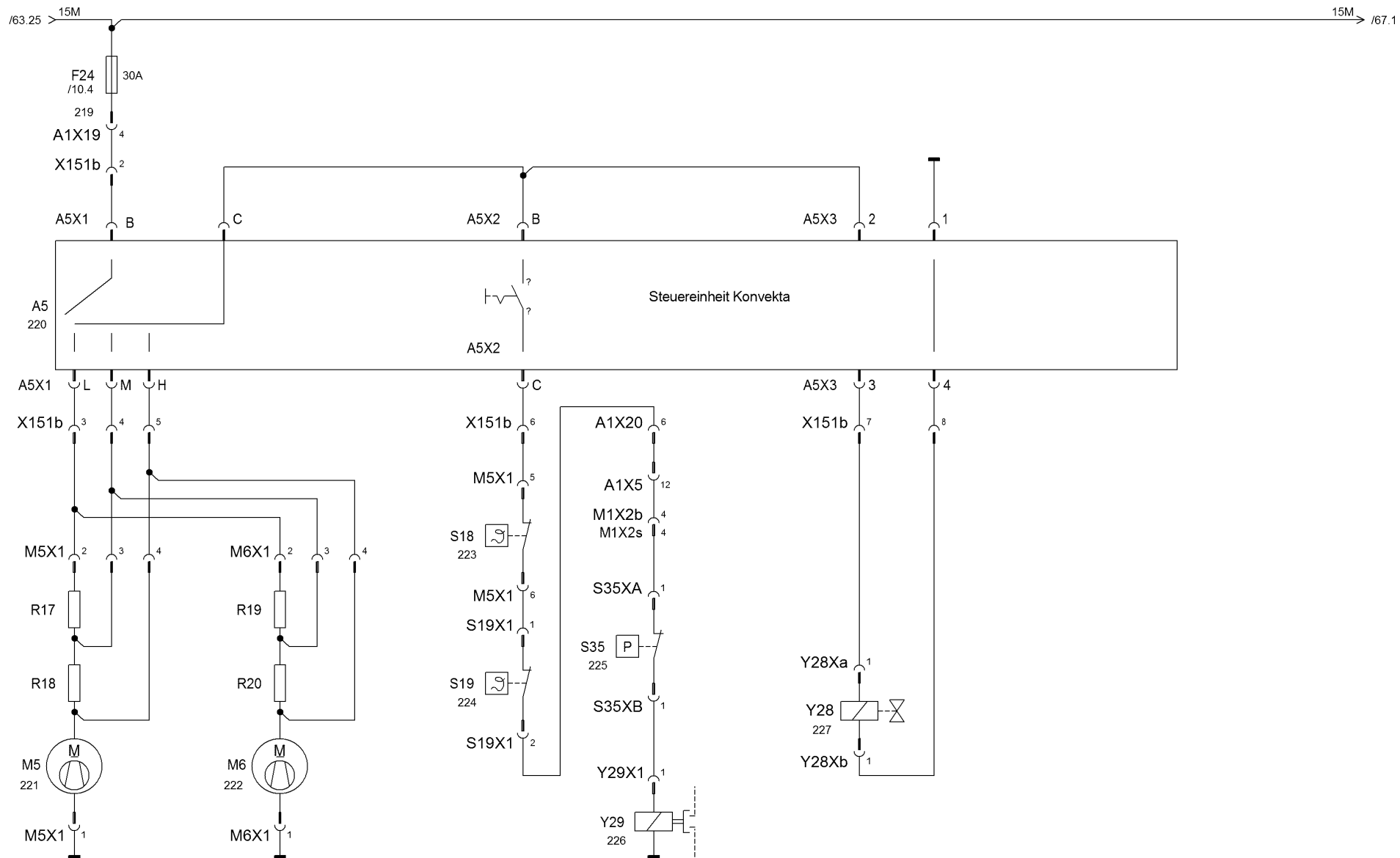
Rev.
01

Blatt

63

84

Bl.



A5: Control unit, air conditioning

M5: Fan motor front

M6: Fan motor rear

S18: Temperature switch Capacitor front

S19: Temperature switch Capacitor rear

S23: Pressure switch Air conditioning

Y28: Valve Heating

Y29: Coupling Compressor Air conditioning

Änderung	Datum	Name	Datum	Name
a			gez. 31.10.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Control unit, heating
Control unit, air conditioning

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

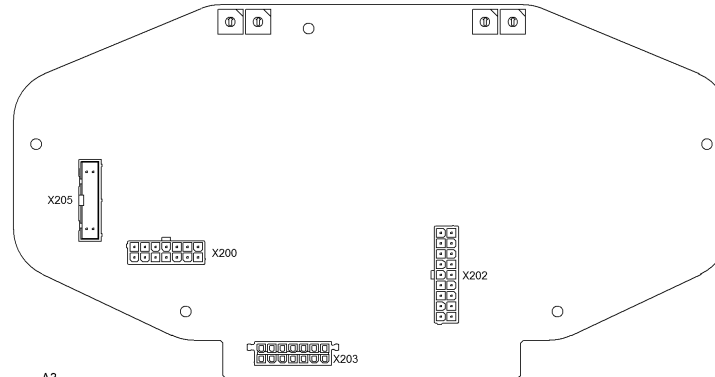
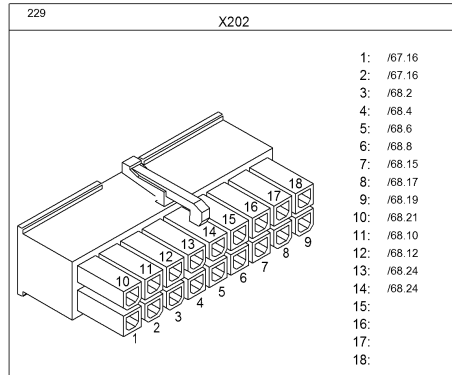
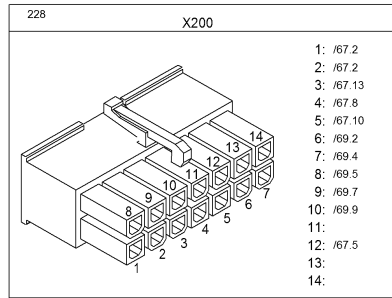
Rev.
01

Blatt

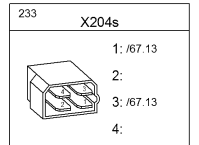
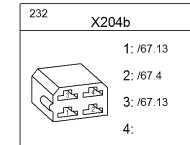
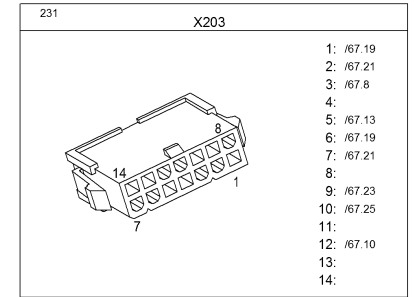
65

84

Bl.



	Supply line	Display	Operator's seat	
/67.1	X200/1 12VDC		Seat contact switch +12V	X202/1 /67.15
/67.1	X200/2 GND		Seat contact switch DI	X202/2 /67.15
/67.12	X200/3 DI Emergency stop		Drive lever right	X202/3 /68.1
/67.7	X200/4 DO Error-detecting Diesel engine		Vibration push button switch DI	X202/4 /68.3
/67.9	X200/5 DO 0-position Drive lever		KAG up DI	X202/5 /68.5
/69.1	X200/6 CAN_A_H		KAG down DI	X202/6 /68.7
/69.3	X200/7 CAN_A_L		Drive lever left	X202/7 /68.14
/69.4	X200/8 CAN_GND		Vibration push button switch DI	X202/8 /68.16
/69.6	X200/9 CAN_B_H		KAG up DI	X202/9 /68.18
/69.8	X200/10 CAN_B_L		KAG 3036 DI	X202/10 /68.20
	X200/11 Shield		Crab steering left DI	X202/11 /68.9
/67.4	X200/12 GND		Crab steering right DI	X202/12 /68.11
	X200/13 nc		Foot push button switch +12V	X202/13 /68.23
	X200/14 nc		Foot push button switch DI	X202/14 /68.23
	Drive lever		nc	X202/15
/67.18	X203/1 12VDC		nc	X202/16
/67.20	X203/2 GND		nc	X202/17
/67.7	X203/3 +12VDC Initiator		nc	X202/18
	X203/4 nc			
/67.12	X203/5 Signal Initiator			
/67.18	X203/6 CAN_A_H			
/67.20	X203/7 CAN_A_L			
	X203/8 CAN_GND			
/67.22	X203/9 CAN_B_H			
/67.24	X203/10 CAN_B_L			
	X203/11 CAN_GND			
/67.9	X203/12 0V Initiator			
	X203/13 nc			
	X203/14 nc			



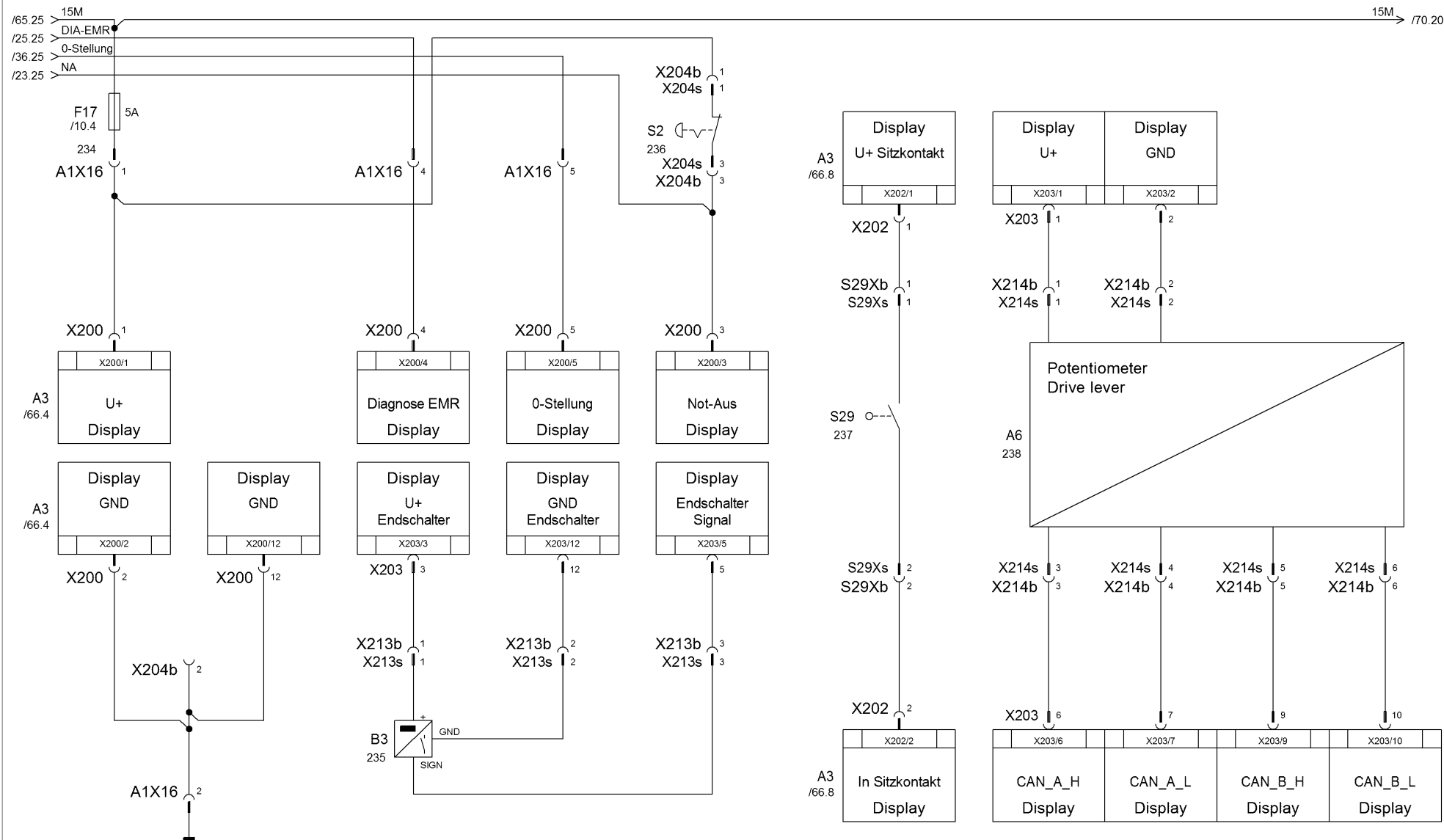
Änderung	Datum	Name	gez.	Datum	Name
a			gez.	14.11.2008	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Instrument panel

Projektbez.
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B3: Proximity switch 0-position Drive lever

S2: Emergency stop

S29: Seat contact switch

A6: Potentiometer Drive lever

Änderung	Datum	Name	Datum	Name
a			gez. 06.03.2008	Janke
b			gepr. 03.07.2012	Schuller
c				
d				



Instrument panel Operator's seat console

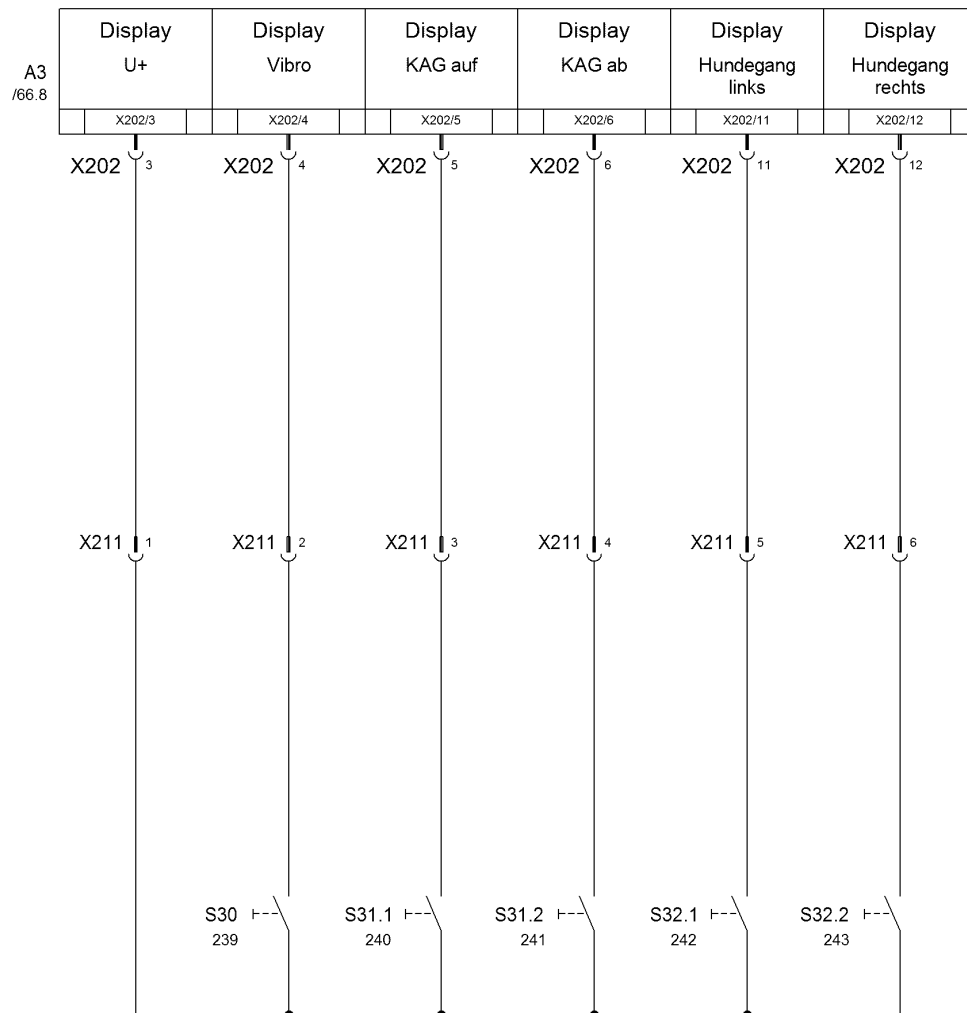
Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

Blatt

67

84

Bl.

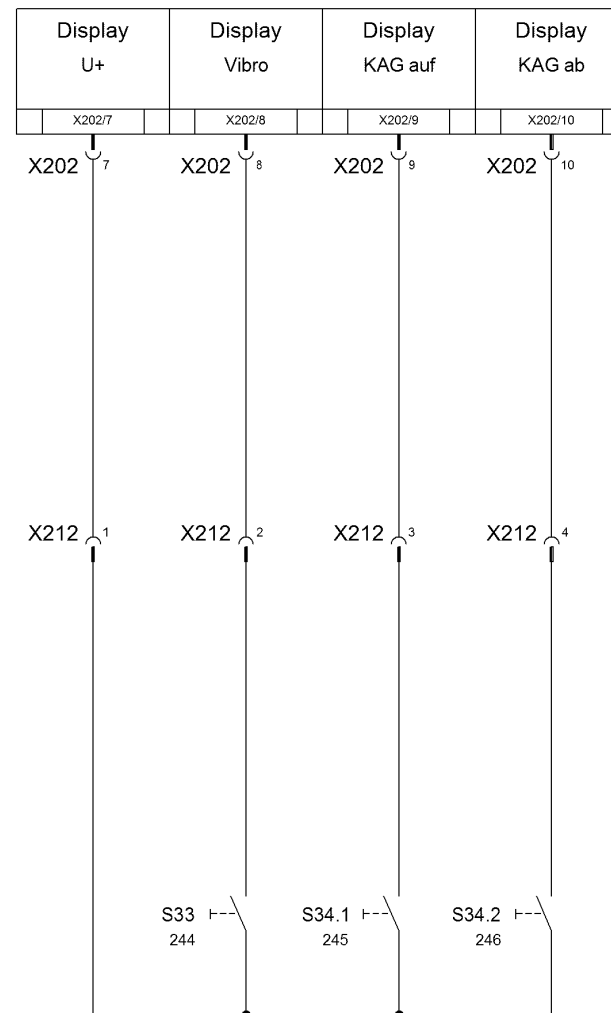


Armrest right

S30: Vibration switch

S31: Edge pressing assembly open / down

S32: Crab steering left / right

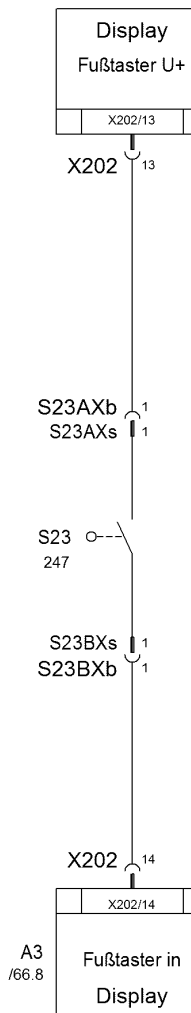


Armrest left

S33: Vibration switch

S34: Edge pressing assembly open / down

S35: Foot push button switch



Änderung	Datum	Name	Datum	Name
a			gez. 07.03.2008	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



**Instrument panel
Operator's seat**

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

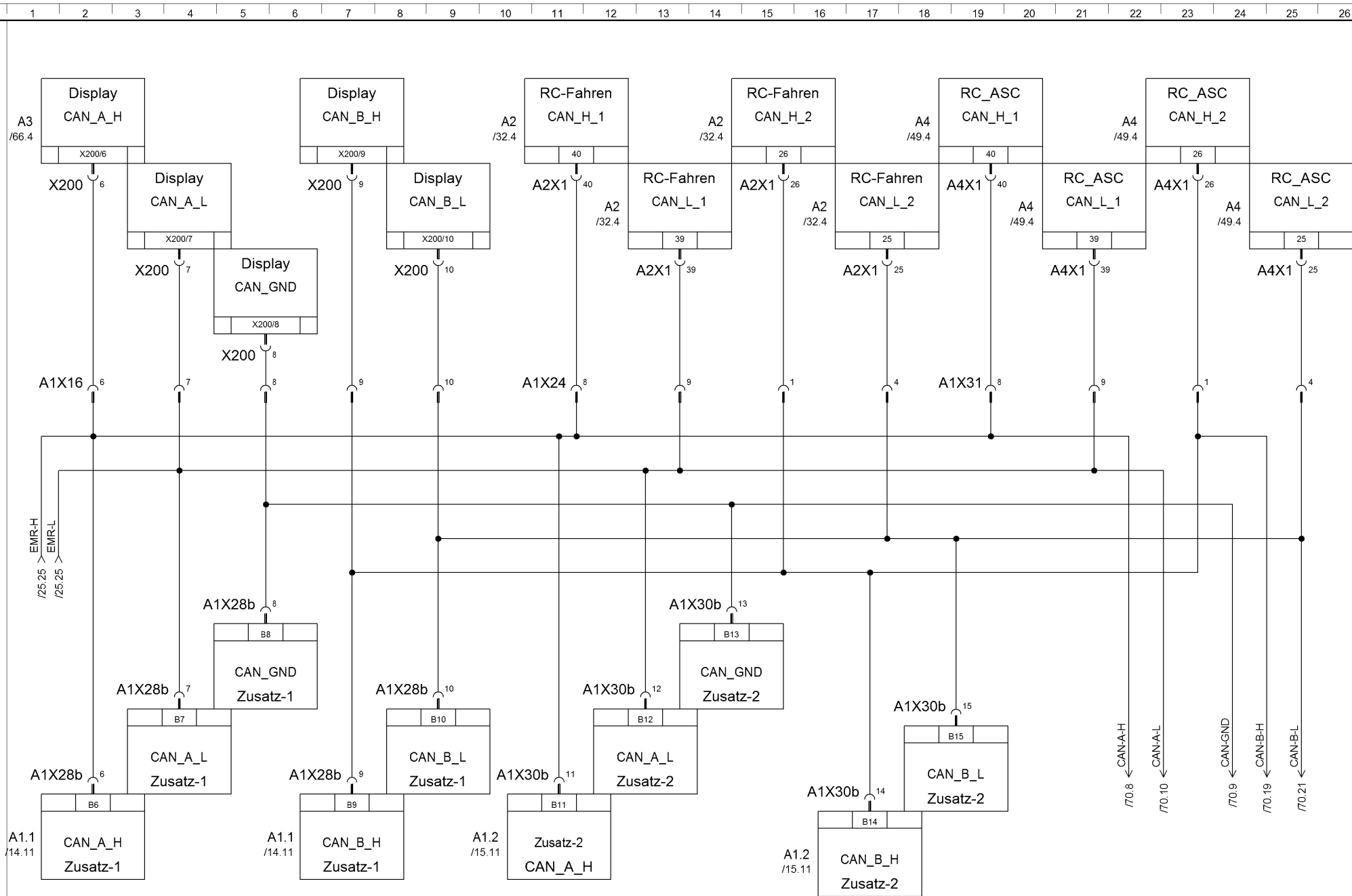
Rev.
01

Blatt

68

84 Bl.

Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten



Änderung	Datum	Name	Datum	Name
a			gez. 22.11.2006	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Distributor CAN

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
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01

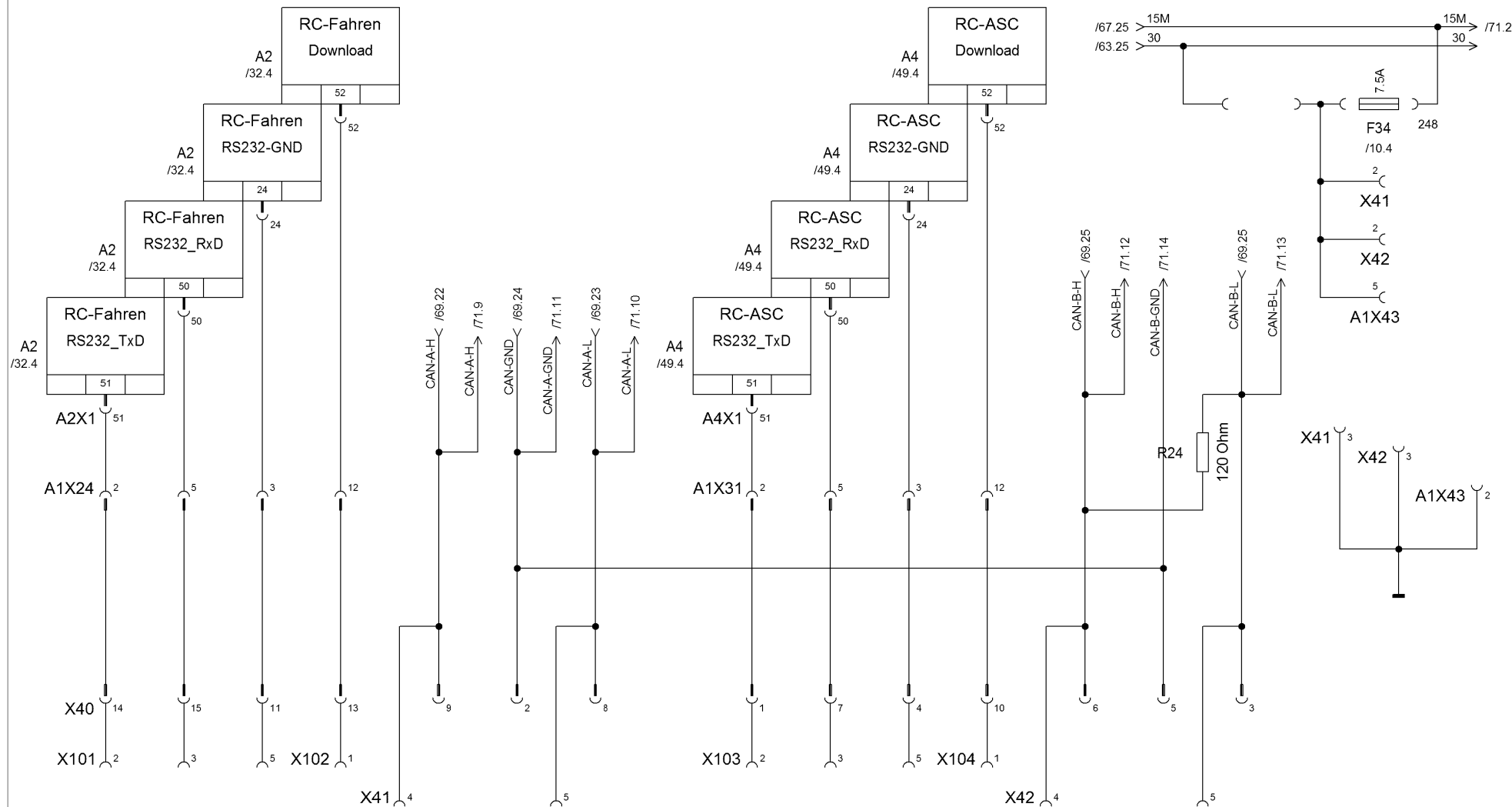
Blatt

69

84

Bl.

Plotdatum: 30.01.2015



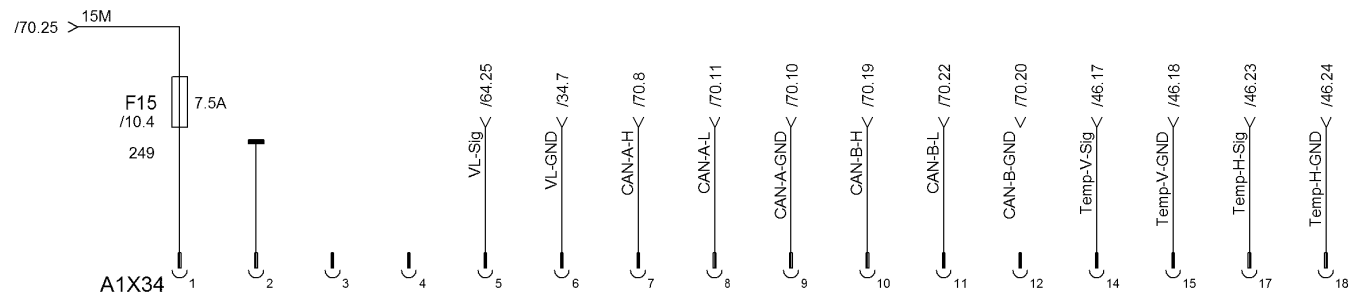
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b				
c			gepr. 03.07.2012	Schuller
d				



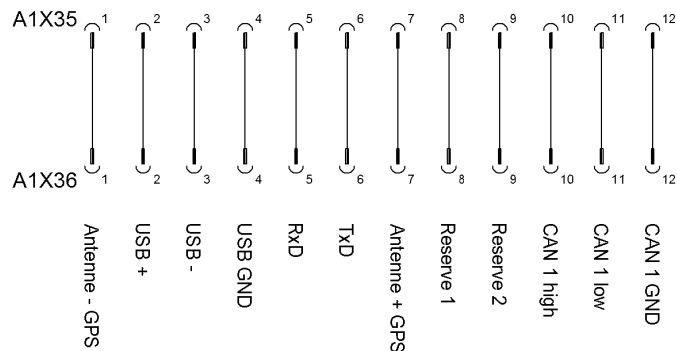
Diagnostic interface

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
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70
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Spannungsversorgung an Pin 7 (+) und Pin 1 (-)



Änderung	Datum	Name		Datum	Name
a			gez.	24.11.2006	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



HCQ - Preparation

Projektbez.
 Stromlaufplan HD120-140
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2130095

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71

84 Bl.

Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten

	Änderung	Datum	Name		Datum	Name
a				gez.	28.11.2008	Janke
b						
c				gepr.	03.07.2012	Schuller
d						

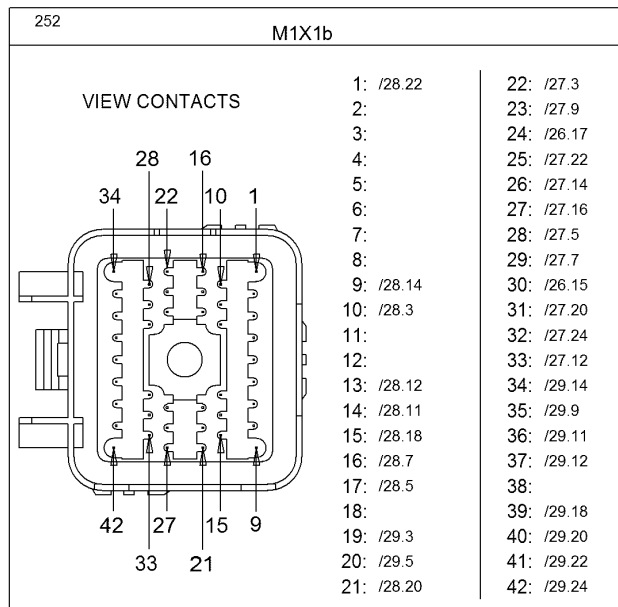
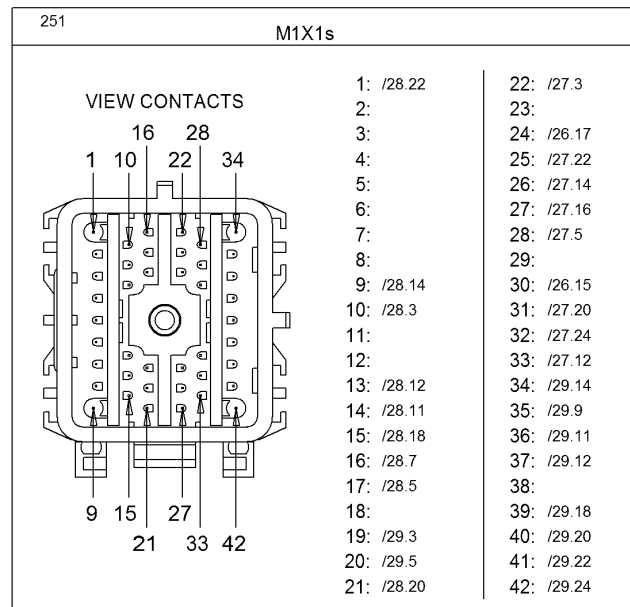


Reserve

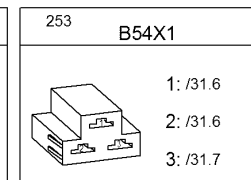
Projektbez.		Stromlaufplan HD120-140		Blatt
Zeichnungsnummer		Rev.		72
2130095		01		
				84 Bl.

Plotdatum: 30.01.2015

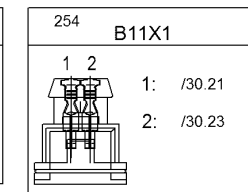
Central plug Diesel engine



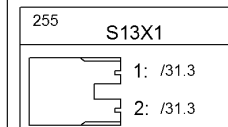
Sensor Coolant level



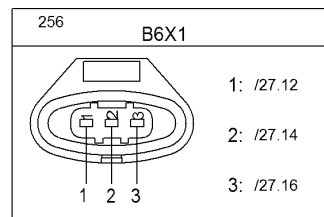
Fuel prefilter



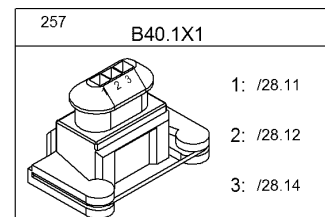
Pressure switch Air filter



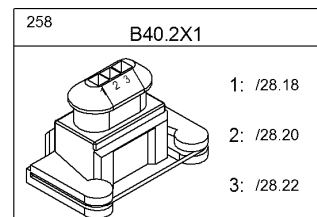
Sensor Engine oil pressure



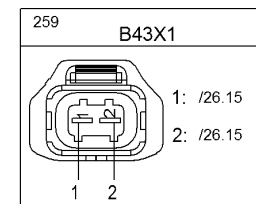
Speed sensor Camshaft



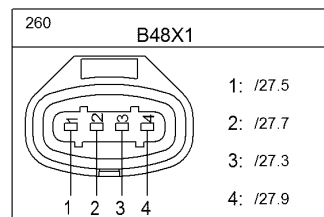
Speed sensor Crankshaft



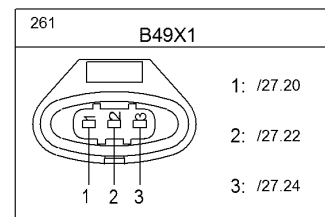
Temperature sensor Coolant



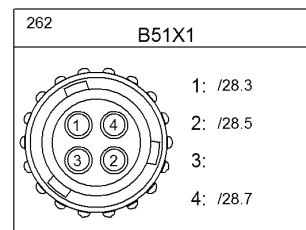
Sensor Boost air



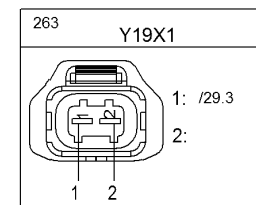
Pressure sensor Fuel RAIL



Low pressure Fuel



Control valve Fuel RAIL



Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten

Änderung	Datum	Name	gez.	Datum	Name
a			gez.	11.12.2008	Janke
b			gepr.	03.07.2012	Schuller
c					
d					

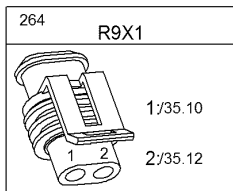


Connector Diesel engine

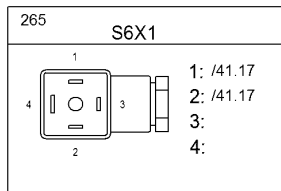
Projektbez.	Stromlaufplan HD120-140
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2130095	01

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84	Bl.

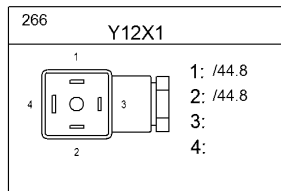
Level indicator
Fuel tank



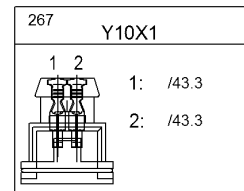
Filter indicator
Hydraulic oil filter



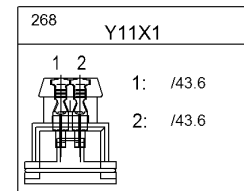
Sprinkling
KAG



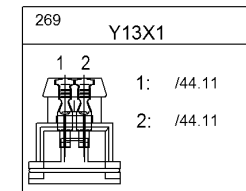
Track offset
left



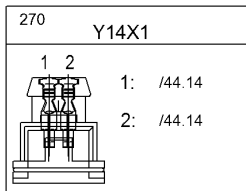
Track offset
right



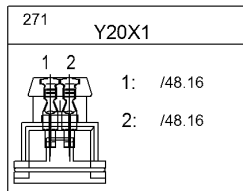
Edge pressing assembly
up



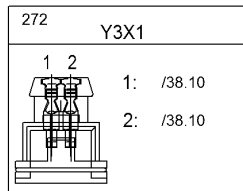
Edge pressing assembly
down



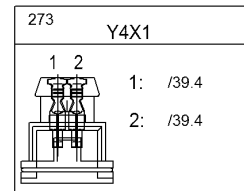
Reversing valve
Edge pressing assembly 1/2



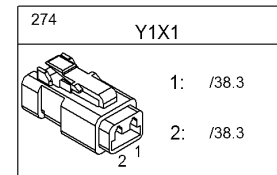
Valve
Parking brake



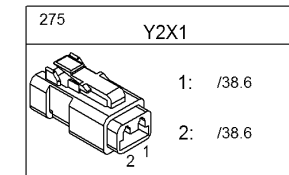
Valve
Gear shifting



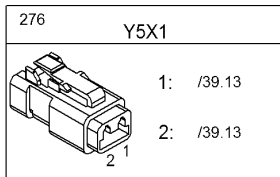
Drive pump
forward



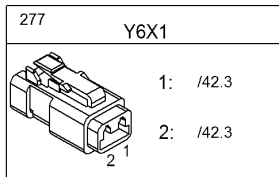
Drive pump
reverse



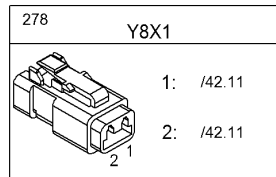
Emergency stop
Drive pump



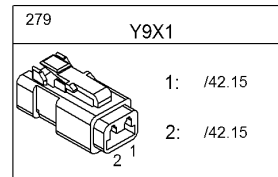
Amplitude, small
front



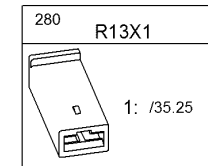
Amplitude, small
rear



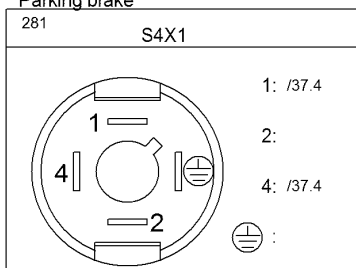
Amplitude, large
rear



Temperature sensor
Hydraulic oil



Pressure switch
Parking brake



Änderung	Datum	Name	Datum	Name
a			gez. 11.12.2008	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Connector Engine room I

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095
Rev.
01

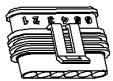
Blatt

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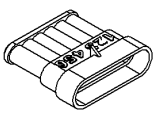
84

Bl.

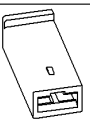
Central plug
Diesel engine

282	M1X2b
	
1:	/22.9
2:	/22.9
3:	/21.15
4:	/65.12
5:	
6:	

Central plug
Diesel engine

283	M1X2s
	
1:	/22.9
2:	/22.9
3:	/21.15
4:	/65.12
5:	
6:	

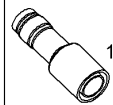
Pressure switch
Air conditioning

284	S35XA
	
1:	/65.12

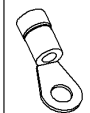
Pressure switch
Air conditioning

285	S35XB
	
1:	/65.12

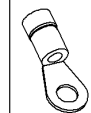
Coupling
Air conditioning

286	Y29X1
	
1:	/65.12

Charge indicator
Alternator

287	G2D+
	
1:	/21.14

Magnetic switch
Starting motor

288	M1/50a
	
1:	/21.5

Magnetic switch
Starting motor

289	M1/30
	
1:	/21.2

	Änderung	Datum	Name		Datum	Name
a				gez.	12.12.2008	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



Connector Engine room II

Projektbez.
Stromlaufplan HD120-140

Zeichnungsnummer
2130095

Rev.
01

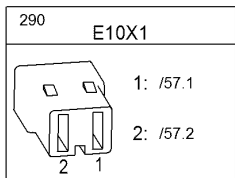
Blatt

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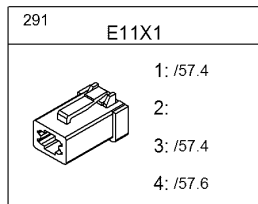
84

Bl.

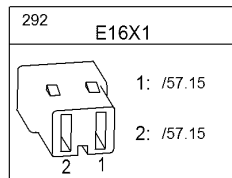
Driving light
front left



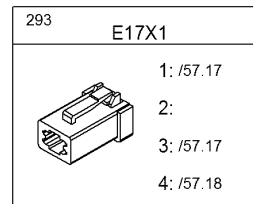
Parking light Blinker
front left



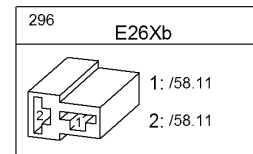
Driving light
front right



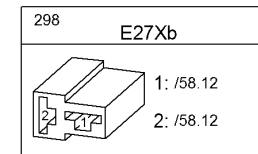
Parking light Blinker
front right



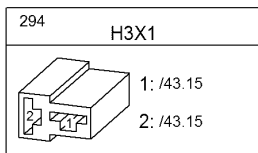
Drum lighting
front left



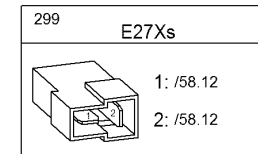
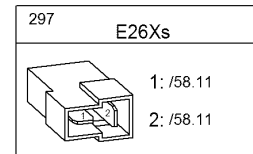
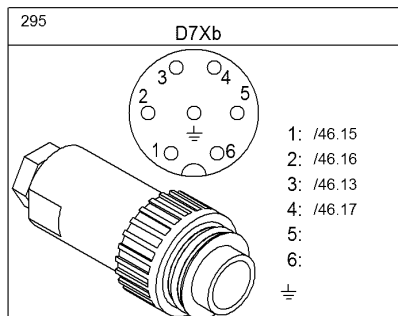
Drum lighting
front right



Signal horn



Asphalt thermometer
front



Änderung	Datum	Name		Datum	Name
a			gez.	12.12.2008	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Connector Front roller

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
2130095

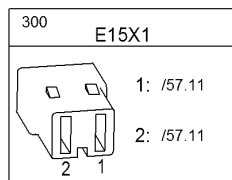
Rev.
01

Blatt

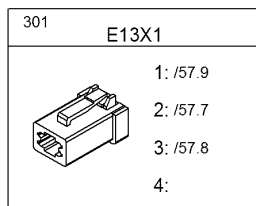
76

84 Bl.

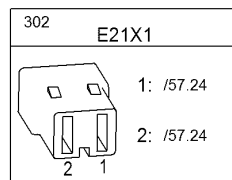
Working spotlights
rear left



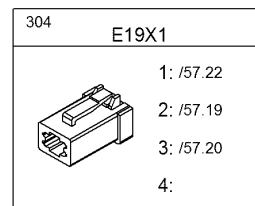
Back-up light Blinker
rear left



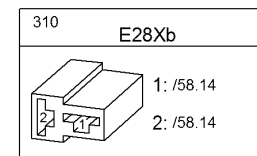
Working spotlights
rear right



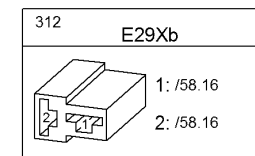
Back-up light Blinker
rear right



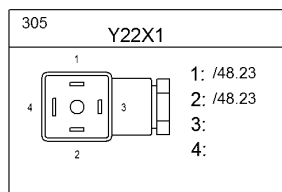
Drum lighting
rear left



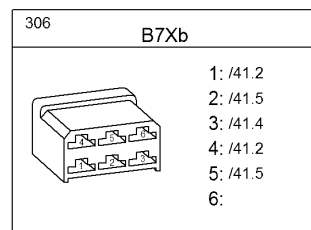
Drum lighting
rear right



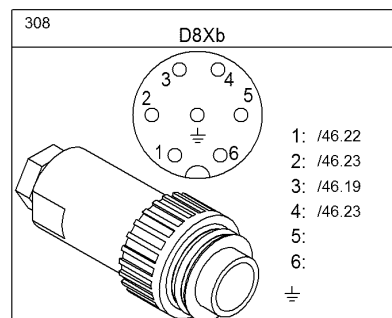
Valve
Tire-heating



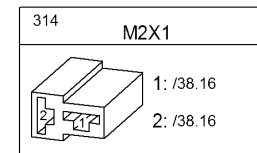
Proximity switch
Crab steering



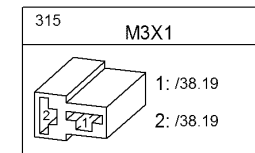
Asphalt thermometer
rear



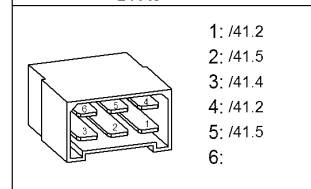
Water pump 1



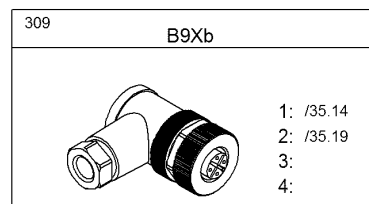
Water pump 2



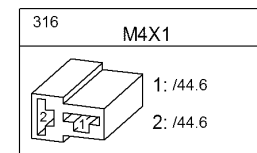
307 B7Xs



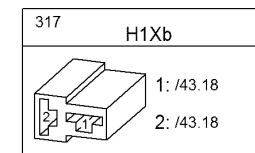
Sensor
Water level



Pump
Additive sprinkling



Back-up alarm



Änderung	Datum	Name		Datum	Name
a			gez.	15.12.2008	Janke
b					
c			gepr.	03.07.2012	Schuller
d					



Connector Rear roller

Projektbez.
Stromlaufplan HD120-140
Zeichnungsnummer
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Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
6	A1	3.2	02072099	Central electric HD+	
29	A1.1	8.11	02072100	Additive Electronic system 1	
30	A1.2	9.12	02072101	Additive Electronic system 2	
7	A1X1	5.2	00898570	Connector	
8	A1X2	5.6	00898473	Connector	
9	A1X4	5.10	00898473	Connector	
10	A1X5	5.2	00898570	Connector	
11	A1X6	5.6	00898473	Connector	
12	A1X7	5.9	00898376	Connector	
13	A1X8	5.13	00898775	Connector	
14	A1X11	5.2	00898775	Connector	
15	A1X12	5.9	00898376	Connector	
16	A1X13	5.13	00898473	Connector	
17	A1X14	5.16	00898376	Connector	
18	A1X16	6.2	00898570	Connector	
20	A1X17	6.16	00898872	Connector	
19	A1X18	6.6	00898570	Connector	
21	A1X19	6.2	00898384	Connector	
22	A1X20	6.9	00898775	Connector	
23	A1X21	6.2	00898872	Connector	
24	A1X22	6.9	00898678	Connector	
26	A1X24	7.2	00898678	Connector	
27	A1X25	7.6	00898872	Connector	
28	A1X26	7.14	00898570	Connector	
31	A1X31	10.2	00898678	Connector	
32	A1X32	10.7	00898775	Connector	
34	A1X34	10.2	00898775	Connector	
35	A1X35	10.9	00898570	Connector	
36	A1X36	10.13	00898570	Connector	
25	A1X38	6.14	00898376	Connector	
37	A1X39	10.2	00898384	Connector	
76	A2	26.5	02069951	Microcontroller RC 4/4	
77	A2X1	26.9	02072834	Central plug complete RC 4/4	
230	A3	60.5	02106774	Instrument panel	
139	A4	43.5	02069951	Microcontroller RC 4/4	
140	A4X1	43.9	02072834	Central plug complete RC 4/4	
220	A5	59.2	02045415	Control unit, air conditioning	
238	A6	61.19	02117179	Potentiometer Drive lever	
217	A9	58.11	00850063	Interface Speedometer	
208	A10	57.2	02031076	Radio	
81	B1	28.4	02067128	Speed sensor	
81	B1	28.4	02043690	Wire harness Wire harness (sensor)	
83	B2	28.9	02067128	Speed sensor	
83	B2	28.9	02067807	Wire harness Wire harness (sensor)	
235	B3	61.8	02117171	Wire harness Proximity switch	
124	B4	40.2	00865222	Sensor	
126	B5	40.7	00865222	Sensor	
62	B6	21.13	02062291	Pressure sensor	
256	B6X1	67.1	02040578	Connector	
101	B7	35.3	02277952	Proximity switch	
306	B7Xb	71.6	00880817	Connection plug, 6-pole	
307	B7Xs	71.6	00880612	Fishing box, 6-pole	
102	B8	35.6	02277952	Proximity switch	
85	B9	29.15	02075889	Pressure sensor	
309	B9Xb	71.10	02074190	Circular connector	
72	B11	24.21	02065058	Filter body	
254	B11X1	67.21	02071870	Electric plug	
210	B12	57.7	01215140	Loudspeaker Set	
211	B13	57.7	01215140	Loudspeaker Set	
65	B40.1	22.11	02062292	Speed sensor	
257	B40.1X1	67.6	00892130	Electric plug	
66	B40.2	22.18	02073584	Speed sensor	
258	B40.2X1	67.10	00892130	Electric plug	
60	B43	20.16	02062293	Temperature sensor	
259	B43X1	67.15	00880698	Electric plug 2-pol.	

Änderung	Datum	Name	Datum	Name	Spare parts list		Projektbez.	Blatt
a			gez. 18.05.2010	Janke	 		Stromlaufplan HD120-140	78
b							Zeichnungsnummer	
c			gepr. 03.07.2012	Schuller			Rev.	
d							2130095 01	

Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
61	B48	21.3	02073575	Sensor Pressure , Temperature	
260	B48X1	67.1	02040579	Connector	
63	B49	21.20	02073579	Pressure sensor	
261	B49X1	67.6	02040578	Connector	
64	B51	22.3	02062291	Pressure sensor	
262	B51X1	67.10	02040580	Circular connector	
145	B52	48.4	02067128	Speed sensor	
145	B52	48.4	02043690	Wire harness Wire harness (sensor)	
147	B53	48.11	02067128	Speed sensor	
147	B53	48.11	02067807	Wire harness Wire harness (sensor)	
74	B54	25.6	00892947	Sensor	
253	B54X1	67.18	00880310	Connection plug, 3-pole	
38	D1	14.9	02051927	Control deviceDiesel engine	
39	D1X1	14.2	02054219	Central plug	
40	D1X2	14.15	02054218	Central plug	
50	D2	17.1	02089009	Emergency control	
80	D3	28.4	00846244	Amplifier	
82	D4	28.9	00846244	Amplifier	
123	D5	40.2	00865168	Signal Amplifier	
125	D6	40.7	00865168	Signal Amplifier	
127	D7	40.13	02033499	Asphalt thermometer	
295	D7Xb	70.5	00369683	Round connector 7-pol.	
128	D8	40.20	02033499	Asphalt thermometer	
308	D8Xb	71.10	00369683	Round connector 7-pol.	
146	D9	48.4	00846244	Amplifier	
148	D10	48.11	00846244	Amplifier	
	D12-X1	54.19	02036609	Central plug 2-pol.	
	D12-X2	54.23	02036609	Central plug 2-pol.	
58	E01	20.8	01224603	Heater plug	
59	E02	20.9	01224603	Heater plug	
56	E04	20.3	01224603	Heater plug	
57	E05	20.4	01224603	Heater plug	
163	E10	51.3	00346357	Halogen lamp	
290	E10X1	70.1	00892815	Electric plug	
164	E11	51.4	00283150	Lamp	
291	E11X1	70.5	02040353	Connection - Bush	
165	E12	51.6	00209635	Lamp	
166	E13	51.8	00283150	Lamp	
301	E13X1	71.5	02040353	Connection - Bush	
169	E13a	51.14	01242830	License plate light	
167	E14	51.10	00283142	Lamp	
168	E15	51.11	00366528	Halogen lamp	
300	E15X1	71.1	00892815	Electric plug	
173	E16	51.16	00346357	Halogen lamp	
292	E16X1	70.9	00892815	Electric plug	
174	E17	51.17	00283150	Lamp	
293	E17X1	70.13	02040353	Connection - Bush	
175	E18	51.19	00209635	Lamp	
176	E19	51.21	00283150	Lamp	
304	E19X1	71.13	02040353	Connection - Bush	
177	E20	51.23	00283142	Lamp	
178	E21	51.24	00366528	Halogen lamp	
302	E21X1	71.9	00892815	Electric plug	
180	E22	52.2	00283150	Lamp	
181	E23	52.4	00283150	Lamp	
182	E24	52.6	00283150	Lamp	
183	E25	52.8	00283150	Lamp	
185	E26	52.11	00283150	Lamp	
296	E26Xb	70.18	00880116	Connection plug, 2-pole	
297	E26Xs	70.18	00880019	Fishing box, 2-pole	
186	E27	52.13	00283150	Lamp	
298	E27Xb	70.22	00880116	Connection plug, 2-pole	
299	E27Xs	70.22	00880019	Fishing box, 2-pole	
187	E28	52.15	00283150	Lamp	
310	E28Xb	71.17	00880116	Connection plug, 2-pole	
311	E28Xs	71.17	00880019	Fishing box, 2-pole	

Änderung	Datum	Name	Datum	Name
a			gez. 18.05.2010	Janke
b				
c			gepr. 03.07.2012	Schuller
d				



Spare parts list

Projektbez.		Blatt	
Stromlaufplan HD120-140		79	
Zeichnungsnummer	Rev.		
2130095	01	84 Bl.	

Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
188	E29	52.16	00283150	Lamp	
312	E29Xb	71.21	00880116	Connection plug, 2-pole	
313	E29Xs	71.21	00880019	Fishing box, 2-pole	
	E37Xb	54.19	02100525	Electric plug	
	E38Xb	54.23	02100525	Electric plug	
	E39Xb	54.19	02100525	Electric plug	
	E40Xb	54.23	02100525	Electric plug	
	E41Xb	54.19	02100525	Electric plug	
	E42Xb	54.23	02100525	Electric plug	
	E43Xb	54.19	02100525	Electric plug	
	E44Xb	54.23	02100525	Electric plug	
100A	F01	2.4	01293001	Fuse	
	F01	15.11	01293001	Fuse	
100A	F02	2.4	01293001	Fuse	
	F02	15.13	01293001	Fuse	
150A	F03	2.4	01286919	Fuse	
	F03	15.16	01286919	Fuse	
	F04	15.18	02054240	Fuse	
	F05	53.4	02054240	Fuse	
	F06	53.10	02054240	Fuse	
51	F1	17.18	00384062	Blade fuse	
52	F2	17.22	00384062	Blade fuse	
53	F3	18.3	00384070	Blade fuse	
	F4	4.3	00384062	Blade fuse	
213	F4	57.16	00384062	Blade fuse	
45	F5	16.2	00384062	Blade fuse	
	F5	4.3	00384062	Blade fuse	
154	F6	50.5	00384054	Blade fuse	
	F6	4.3	00384054	Blade fuse	
79	F8	27.11	01263927	Blade fuse	
	F8	4.3	01263927	Blade fuse	
141	F9	44.3	00384062	Blade fuse	
	F11	4.3	01263927	Blade fuse	
78	F11	27.7	01263927	Blade fuse	
142	F12	44.7	01263927	Blade fuse	
	F12	4.3	01263927	Blade fuse	
143	F13	44.11	01263927	Blade fuse	
	F13	4.3	01263927	Blade fuse	
100	F14	35.3	02034554	Blade fuse	
	F14	4.3	02035281	Blade fuse	
249	F15	65.3	00384046	Blade fuse	
	F15	4.3	00384046	Blade fuse	
122	F16	39.3	00384062	Blade fuse	
234	F17	61.3	00386197	Blade fuse	
	F17	4.3	00386197	Blade fuse	
	F18	4.3	00384054	Blade fuse	
153	F18	50.3	00384054	Blade fuse	
	F19	4.3	00384062	Blade fuse	
93	F19	32.18	00384062	Blade fuse	
117	F20	38.6	00384062	Blade fuse	
	F20	4.3	00384062	Blade fuse	
112	F21	37.15	00384062	Blade fuse	
	F21	4.3	00384062	Blade fuse	
	F22	4.3	01243705	Blade fuse	
192	F22	55.3	01243705	Blade fuse	
207	F23	57.5	00384062	Blade fuse	
	F23	4.3	00384062	Blade fuse	
219	F24	59.3	01243705	Blade fuse	
	F24	4.3	01243705	Blade fuse	
189	F26	52.19	00384054	Blade fuse	
172	F27	51.24	00384062	Blade fuse	
	F27	4.3	00384062	Blade fuse	
179	F28	52.5	00384070	Blade fuse	
184	F29	52.11	00384062	Blade fuse	
161	F30	51.3	00384054	Blade fuse	
	F30	4.3	00384054	Blade fuse	

Änderung	Datum	Name	Datum	Name	Spare parts list		Projektbez.	Rev.	Blatt
a			gez. 18.05.2010	Janke	 		Stromlaufplan HD120-140		80
b							Zeichnungsnummer		
c			gepr. 03.07.2012	Schuller			2130095	01	
d									

Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
170	F31	51.16	00384054	Blade fuse	
171	F32	51.19	00386197	Blade fuse	
162	F33	51.6	00386197	Blade fuse	
248	F34	64.24	02027966	Blade fuse	
42	G1	15.9	00351857	Battery	
44	G2	15.13	01294768	Alternator	
114	H1	37.18	00840696	Back-up alarm	
317	H1Xb	71.21	00880116	Connection plug, 2-pole	
110	H2	37.10	02028837	Signal transmitter	
113	H3	37.16	00207365	Signal horn	
294	H3X1	70.1	00880116	Connection plug, 2-pole	
191	H5	52.19	00342505	Rotating-beam light	
191	H5	52.19	00355283	Lamp	
191	H5	52.19	00395846	Pipe	
75	H6	25.12	00386308	Pilot light, glow	
75	H6	25.12	00209643	Lamp	
47	K01	16.7	01289829	Relay	
2	K01X1	2.17	00892823	Connector 2-pol.	
159	K02	50.19	01289829	Relay	
3	K02X1	2.20	00892823	Connector 2-pol.	
55	K03	20.3	01289829	Relay	
4	K03X1	2.24	00892823	Connector 2-pol.	
48	K04	16.10	01210807	Relay	
5	K04X1	2.20	00880043	Header	
54	K3	18.3	00331686	Relay	
92	K4	32.14	00331686	Relay	
156	K5	50.3	01292587	Flasher relay	
160	K6	50.24	01263986	Relay	
98	K8	33.7	01263986	Relay	
115	K9	37.21	01263986	Relay	
111	K10	37.13	01263986	Relay	
116	K13	38.3	00331686	Relay	
49	K14	16.15	01263986	Relay	
195	K100	55.8	01263986	Relay	
196	K101	55.10	01263986	Relay	
197	K102	55.13	01263986	Relay	
201	K104	56.3	01263986	Relay	
202	K105	56.5	01263986	Relay	
203	K106	56.7	01263986	Relay	
41	M1	15.3	02043678	Starting motor	
289	M1/30	69.10	00209201	Cable bracket 4-6mm ² M5	
288	M1/50 ^a	69.23	00209171	Cable bracket 4-6mm ² M5	
252	M1X1b	67.9	02052010	Connector male	
251	M1X1s	67.1	02039764	Connector male	
282	M1X2b	69.1	00893080	Connection - Bush	
283	M1X2s	69.6	00893072	Electric plug	
95	M2	32.17	00851124	Water pump	
314	M2X1	71.17	00880116	Connection plug, 2-pole	
96	M3	32.19	00851124	Water pump	
315	M3X1	71.21	00880116	Connection plug, 2-pole	
118	M4	38.6	00851124	Water pump	
316	M4X1	71.17	00880116	Connection plug, 2-pole	
221	M5	59.2	02071186	Blower	
222	M6	59.6	02071186	Blower	
194	M7	55.3	01272195	Windshield washer	
199	M8	55.21	01270036	Windscreen wiper motor	
204	M9	56.8	01270036	Windscreen wiper motor	
205	M10	56.14	01270036	Windscreen wiper motor	
206	M11	56.20	01270036	Windscreen wiper motor	
218	P1	58.16	02117582	Speedometer	
43	Q1	15.9	00394319	Battery switch	
84	R9	29.11	02085228	Fuel level sensor	
264	R9X1	68.1	00892823	Connector 2-pol.	
86	R13	29.25	00282308	Temperature sensor, hydraulic oil	
280	R13X1	68.18	02114756	Connector	
144	R15	46.2	00367729	Potentiometer	

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a			gez. 18.05.2010	Janke			Stromlaufplan HD120-140	81
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Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
46	S1	16.6	00366617	Ignition switch	
46	S1	16.6	00367125	Ignition key	
236	S2	61.13	02104662	Emergency stop switch	
236	S2	61.13	02104668	Emergency stop switch	
88	S4	31.4	01301020	Pressure switch, parking brake	
281	S4X1	68.1	01301543	Plug	
94	S5	32.18	01262955	Switch	
94	S5	32.18	02081602	Rocker	
103	S6	35.18	01295403	Pressure switch &Text12.09.20011;/1	
265	S6X1	68.5	00272116	Coupler socket	
155	S7	50.3	01264524	Alarm system switch	
157	S8	50.8	01268678	Switch	
157	S8	50.8	02031843	Rocker	
158	S9	50.16	01269461	Switch	
158	S9	50.16	02031842	Rocker	
190	S10	52.19	01262955	Switch	
190	S10	52.19	01291947	Rocker	
215	S11	57.16	01240854	Door contact switch	
216	S12	57.18	01240854	Door contact switch	
73	S13	25.3	00233366	Pressure switch	
255	S13X1	67.18	00880647	Central plug	
223	S18	59.10	02118364	Thermostat	
224	S19	59.10	02118364	Thermostat	
87	S20	30.9	01262955	Switch	
87	S20	30.9	01497790	Rocker	
137	S21	42.23	01291955	Rocker	
137	S21	42.23	02081606	Rocker	
130	S22	41.11	01269461	Switch	
130	S22	41.11	02081609	Rocker	
247	S23	62.25	00848611	Pedal switch	
193	S26	55.3	02083570	Switch	
193	S26	55.3	02089887	Rocker	
198	S27	55.23	01262955	Switch	
198	S27	55.23	02089888	Rocker	
200	S28	56.3	01262955	Switch	
200	S28	56.3	02089889	Rocker	
237	S29	61.17	01289071	Seat contact switch	
239	S30	62.5	00388955	Vibration push button switch	
239	S30	62.5	01512870	Flat bar Vibration push button switch	
239	S30	62.5	01512862	Cap Vibration push button switch	
240	S31.1	62.7	01290282	Rocker switch	
241	S31.2	62.9	01290282	Rocker switch	
242	S32.1	62.11	01290282	Rocker switch	
243	S32.2	62.13	01290282	Rocker switch	
244	S33	62.18	00388955	Vibration push button switch	
244	S33	62.18	01512870	Flat bar Vibration push button switch	
244	S33	62.18	01512862	Cap Vibration push button switch	
245	S34.1	62.20	01290282	Rocker switch	
246	S34.2	62.22	01290282	Rocker switch	
225	S35	59.13	02124295	Pressure sensor Air conditioning	
284	S35XA	69.10	02114756	Connector	
285	S35XB	69.14	02114756	Connector	
209	W1	57.8	00384836	Antenna	
33	X33	10.22	00898678	Connector	
212	X155	57.9	01292358	Coupler socket	
228	X200	60.1	00880353	Central plug 14-pol.	
229	X202	60.1	00880450	Central plug 18-pol.	
231	X203	60.10	02125504	Central plug 14-pol. male	
232	X204b	60.10	00880515	Connection plug, 4-pole	
233	X204s	60.11	00880418	Fishing box, 4-pole	
1	XF1	2.2	01506986	Fuse box	
89	Y1	32.3	02122294	Control valve	
274	Y1X1	68.17	02100525	Electric plug	
90	Y2	32.7	02122294	Control valve	
275	Y2X1	68.21	02100525	Electric plug	
91	Y3	32.10	02058158	Solenoid valve	

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a			gez. 18.05.2010	Janke	 		Stromlaufplan HD120-140	82
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c			gepr. 03.07.2012	Schuller			2130095	01
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Spare parts list					
Pos.	Component	Page	Spare part No.	Description	useable for Machine type
272	Y3X1	68.9	00880442	Electric plug	
97	Y4	33.4	02058158	Solenoid valve	
273	Y4X1	68.13	00880442	Electric plug	
99	Y5	33.14	02122094	Solenoid valve	
276	Y5X1	68.1	02100525	Electric plug	
104	Y6	36.3	02125591	Control valve	
277	Y6X1	68.5	02100525	Electric plug	
105	Y7	36.7	02125591	Control valve	
106	Y8	36.11	02125591	Control valve	
278	Y8X1	68.10	02100525	Electric plug	
107	Y9	36.15	02125591	Control valve	
279	Y9X1	68.14	02100525	Electric plug	
108	Y10	37.3	02126696	Solenoid valve	
267	Y10X1	68.13	00880442	Electric plug	
109	Y11	37.6	02126696	Solenoid valve	
268	Y11X1	68.17	00880442	Electric plug	
119	Y12	38.8	01235133	Solenoid valve	
266	Y12X1	68.9	00272116	Coupler socket	
120	Y13	38.12	02126696	Solenoid valve	
269	Y13X1	68.21	00880442	Electric plug	
121	Y14	38.15	02126696	Solenoid valve	
270	Y14X1	68.1	00880442	Electric plug	
68	Y15.1	23.9	02075175	Injection nozzle	
69	Y15.3	23.13	02075175	Injection nozzle	
71	Y15.4	23.23	02075175	Injection nozzle	
70	Y15.6	23.19	02075175	Injection nozzle	
67	Y19	23.3	02073573	FCU Valve	
263	Y19X1	67.15	00880698	Electric plug 2-pol.	
271	Y20X1	68.5	00880442	Electric plug	
305	Y22X1	71.1	00272116	Coupler socket	
149	Y24	49.3	02042038	Control valve	
150	Y25	49.7	02042038	Control valve	
151	Y26	49.10	02042038	Control valve	
152	Y27	49.14	02042038	Control valve	
227	Y28	59.16	02071190	Solenoid valve Heating	
226	Y29	59.13	02071195	Compressor Air conditioning	
286	Y29X1	69.17	00209147	Bush	

Änderung	Datum	Name	Datum	Name
a			gez. 18.05.2010	Janke
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Spare parts list

Projektbez. Stromlaufplan HD120-140		Blatt
Zeichnungsnummer 2130095	Rev. 01	83
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Vervielfältigung oder Weitergabe nur mit unserer schriftlichen Genehmigung gestattet
Schutzvermerk nach DIN 34 beachten

	Änderung	Datum	Name		Datum	Name
a				gez.	18.05.2010	Janke
b						
c				gepr.	03.07.2012	Schuller
d						



Reserve

Projektbez.		Stromlaufplan HD120-140		Blatt
Zeichnungsnummer		Rev.		84
2130095		01		
				84 Bl.

Plotdatum: 30.01.2015