

Project description	BF600C "ACM2.1 Evo"
Designazione dell'impianto	BF700C EDC16
Drawing number	441
numero disegno	

Pages 146
pagine

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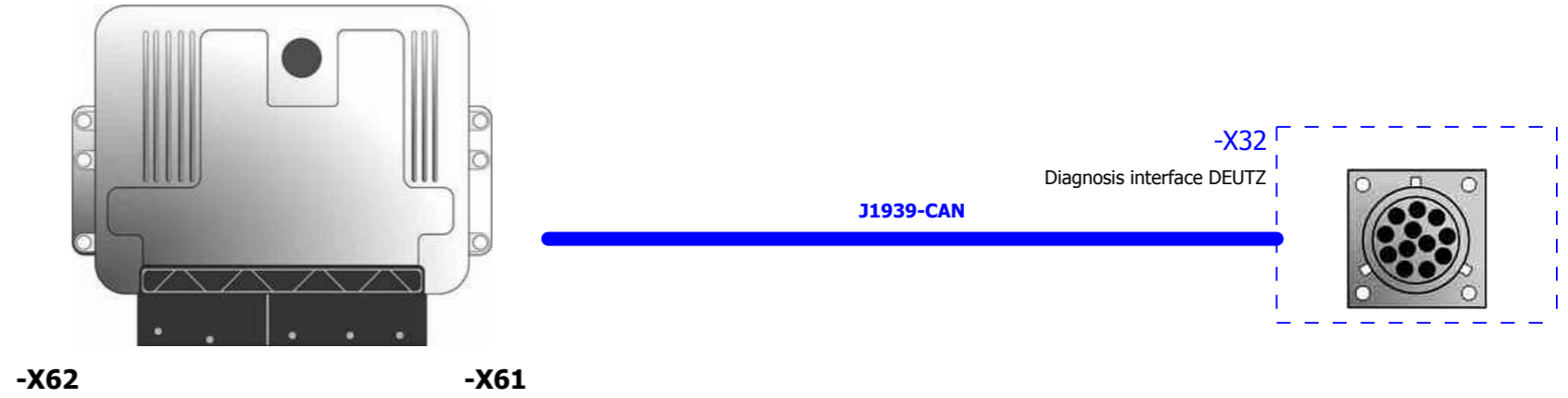
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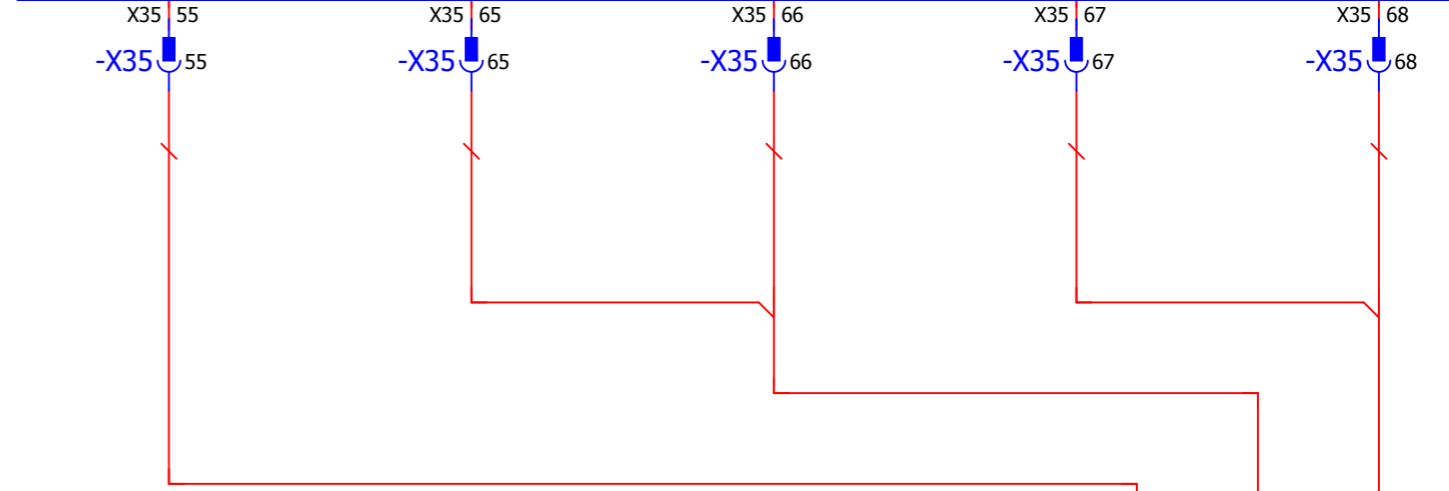
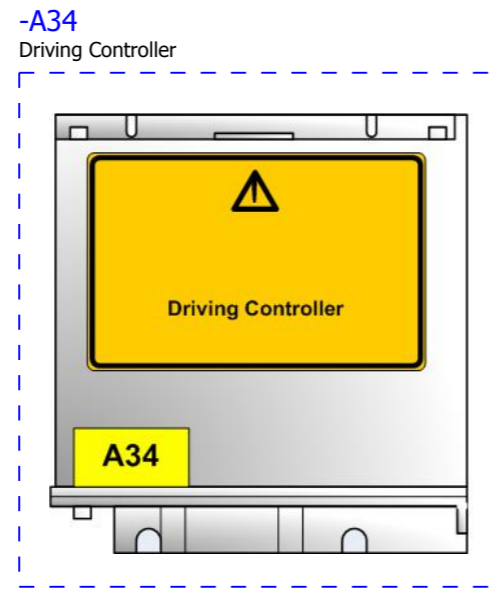
-A48
 DEUTZ Engine-controller
 EDC16 EMR3



0	1	2	3	4	5	6	7	8	9				
Created Realizzato	L.Zuccharino 08/02/2017	BF600C "ACM2.1 Evo" BF700C EDC16	 BOMAG FAYAT GROUP	Overview CAN Communication DEUTZ				Higher-level function Impianto	=	Page Pagina	11	from from pag.	146
Checked Controllato	R.Zaniboni 10/02/2017							Function Funzione	= =	441			
								Mounting location Montaggio località	+				

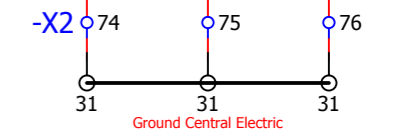
17.8 ~ F67 ←
 20.8 ~ F256 ←
 18.9 ~ F148.1 ← → F148.1 ~ 22.0

Ground Electronic -BMESX	Ground Electronic -BMESX	Ground Electronic -BMESX	Ground Electronic -BMESX	Ground Electronic -BMESX
Driving Controller	Driving Controller	Driving Controller	Driving Controller	Driving Controller
-A34	-A34	-A34	-A34	-A34
GND	GND	GND	GND	GND
X35 55	X35 65	X35 66	X35 67	X35 68



-SP1
Splice

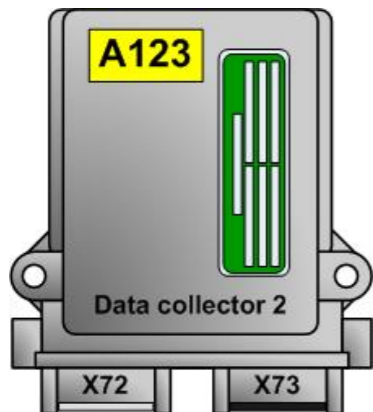
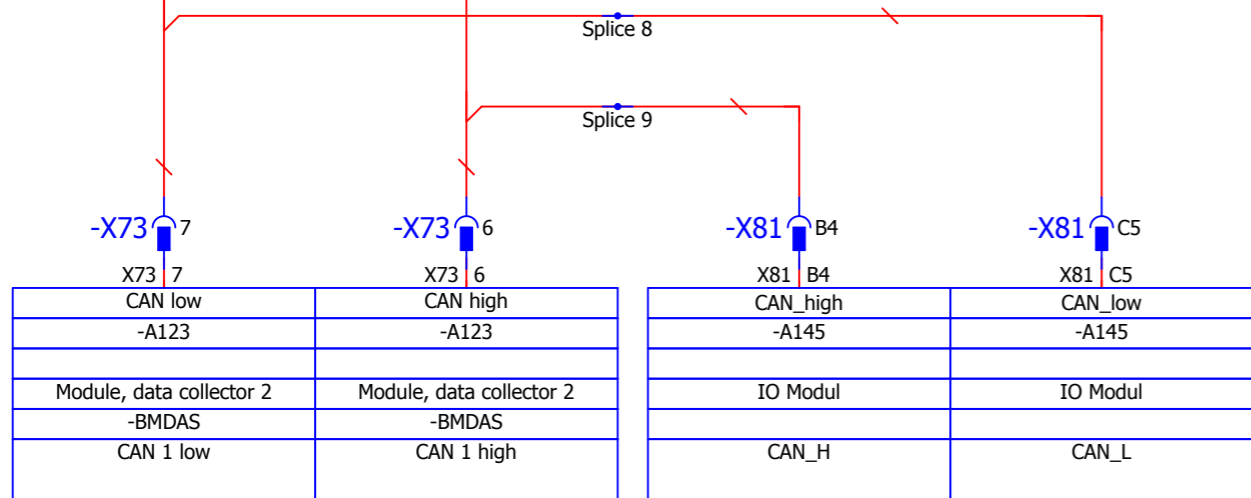
X35 28	X35 54	X35 56	X35 57	X35 58	X35 59	X35 60
D+	+UE	+UB	+UB	+UB	+UB	+UB
-A34	-A34	-A34	-A34	-A34	-A34	-A34
Driving Controller	Driving Controller	Driving Controller	Driving Controller	Driving Controller	Driving Controller	Driving Controller
-BMESX	-BMESX	-BMESX	-BMESX	-BMESX	-BMESX	-BMESX
Ignition	Power Supply (Electronic)	Power Supply (Outputs)	Power Supply (Outputs)	Power Supply (Outputs)	Power Supply (Outputs)	Power Supply (Outputs)



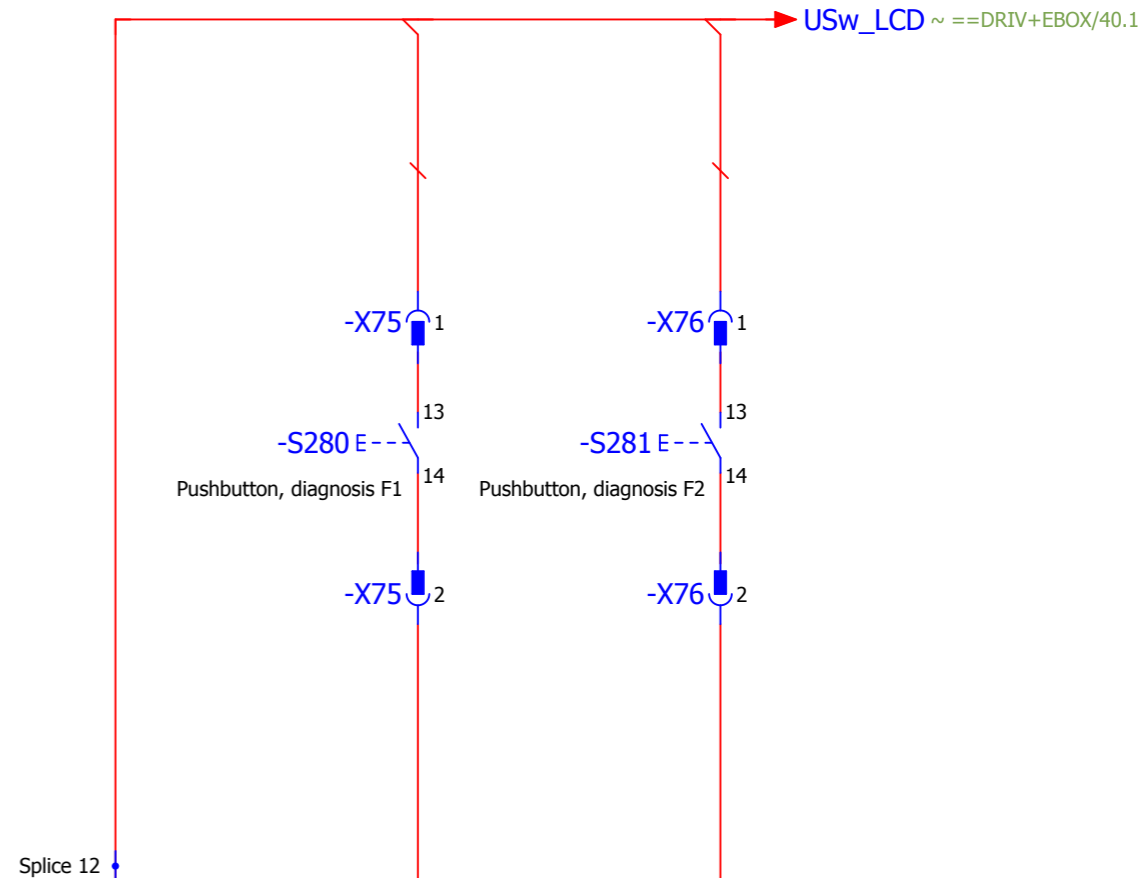
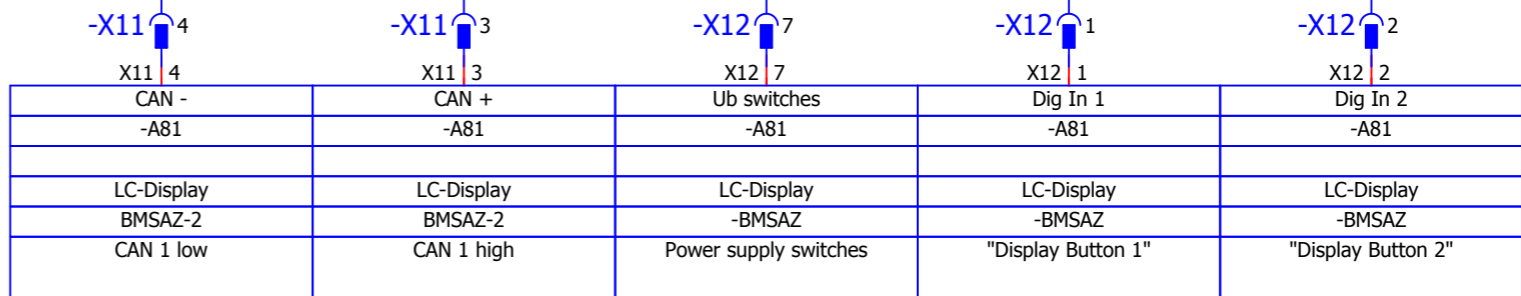
+EBOX

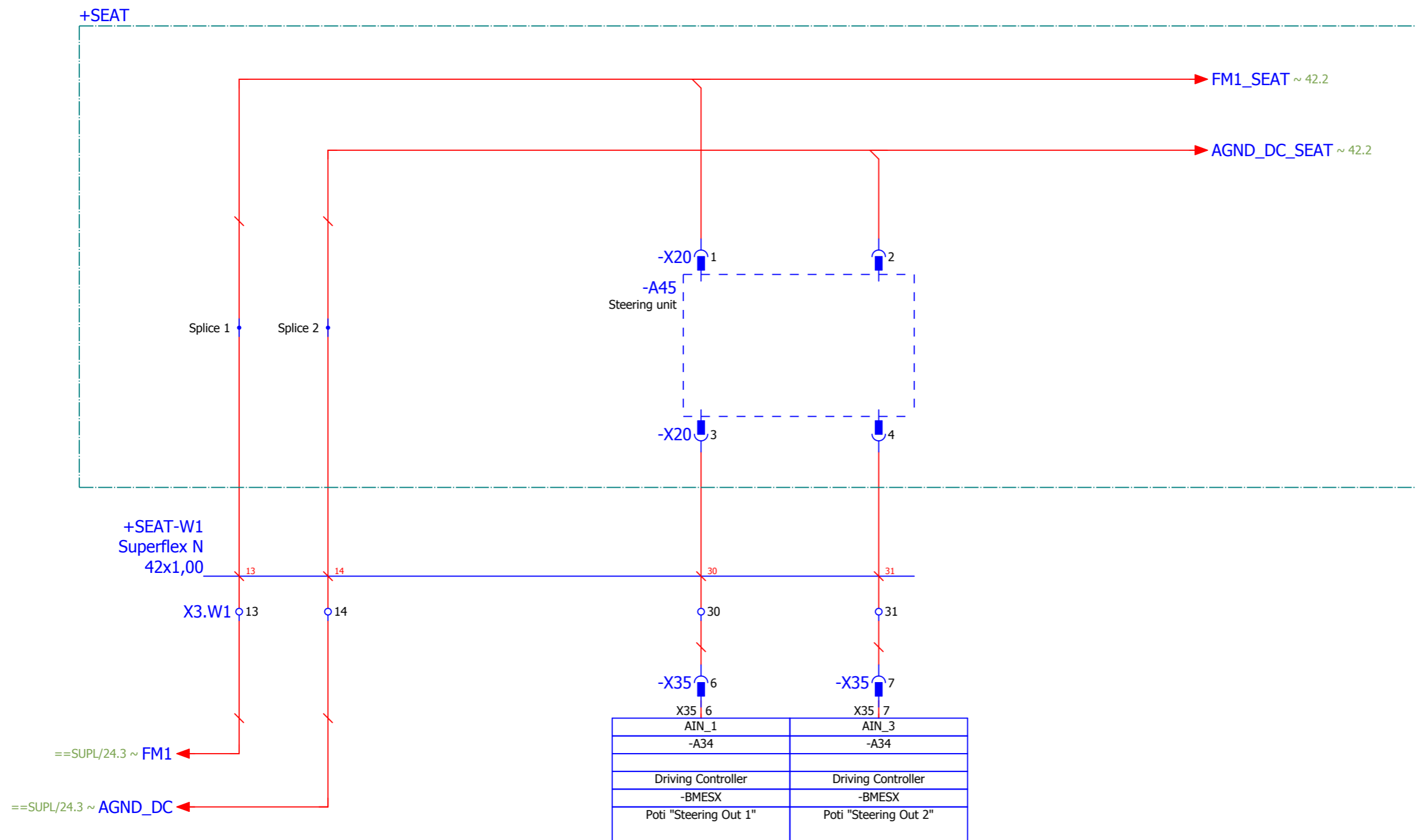


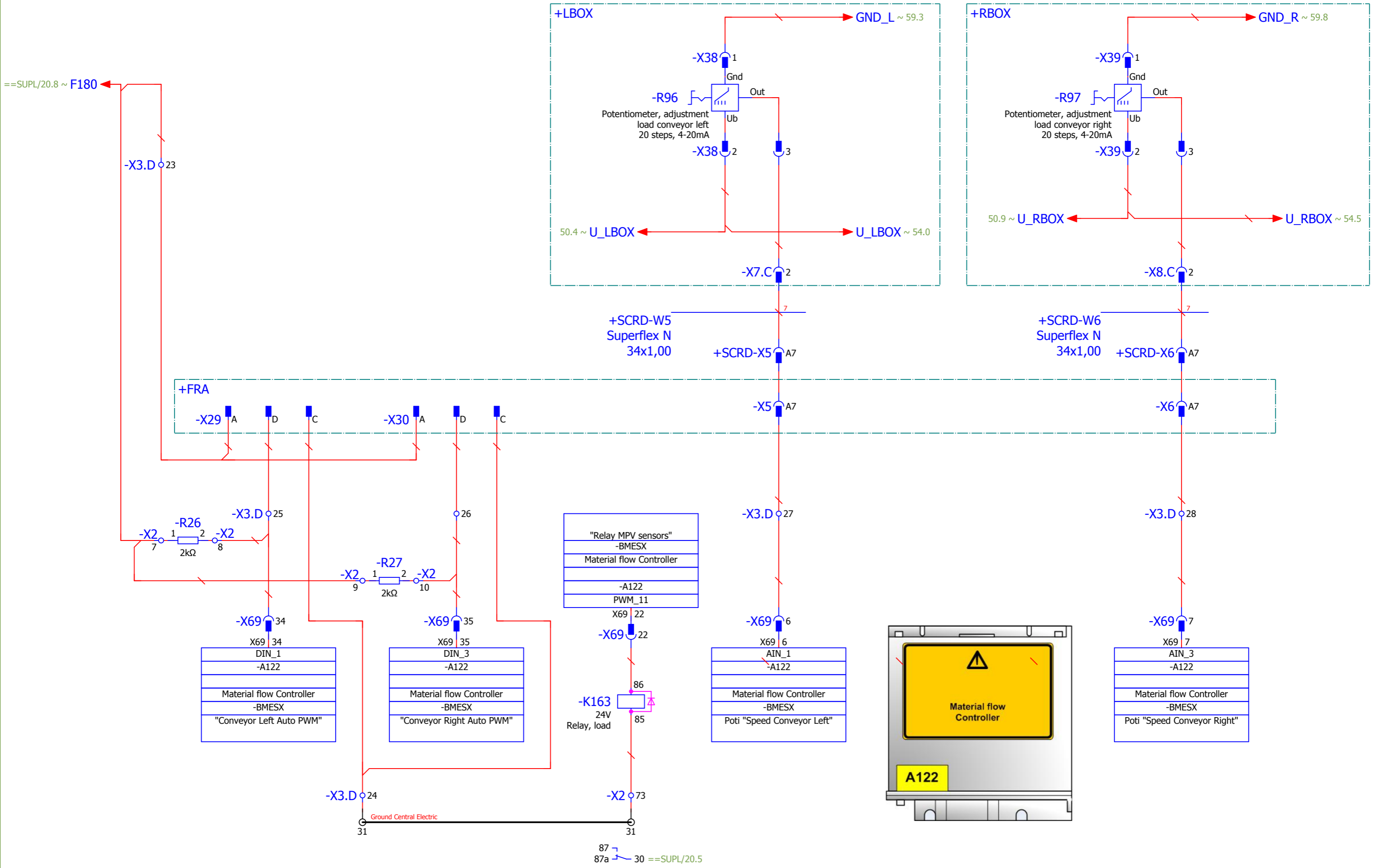
-W1
Superflex N
42x1,00

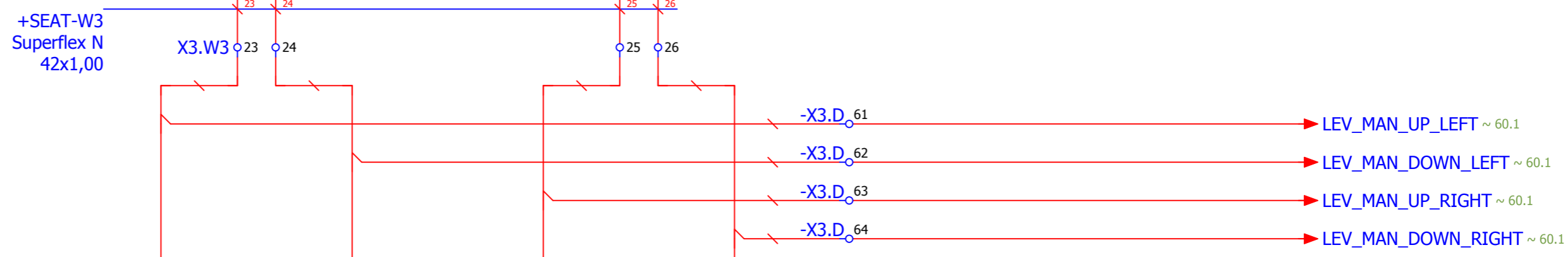
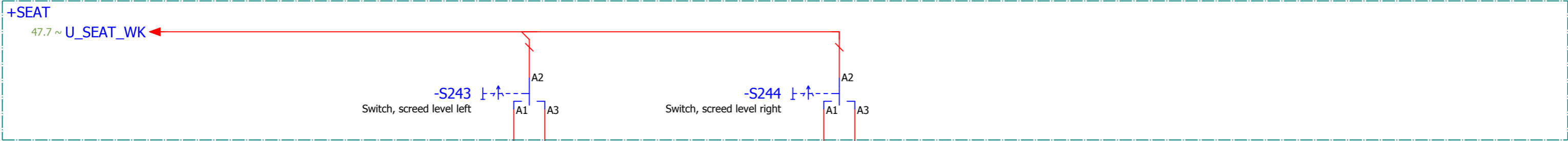


-A145
 ==SUPL+EBOX/25.5
 ==PAV+EBOX/53.8 /31.3
 ==SUPL+EBOX/25.6
 ==COMF+EBOX/72.4
 ==PAV+EBOX/53.7
 ==PAV+EBOX/48.5 /31.4
 ==SUPL+EBOX/15.6
 Pin overview -->
 CAN I/O Module

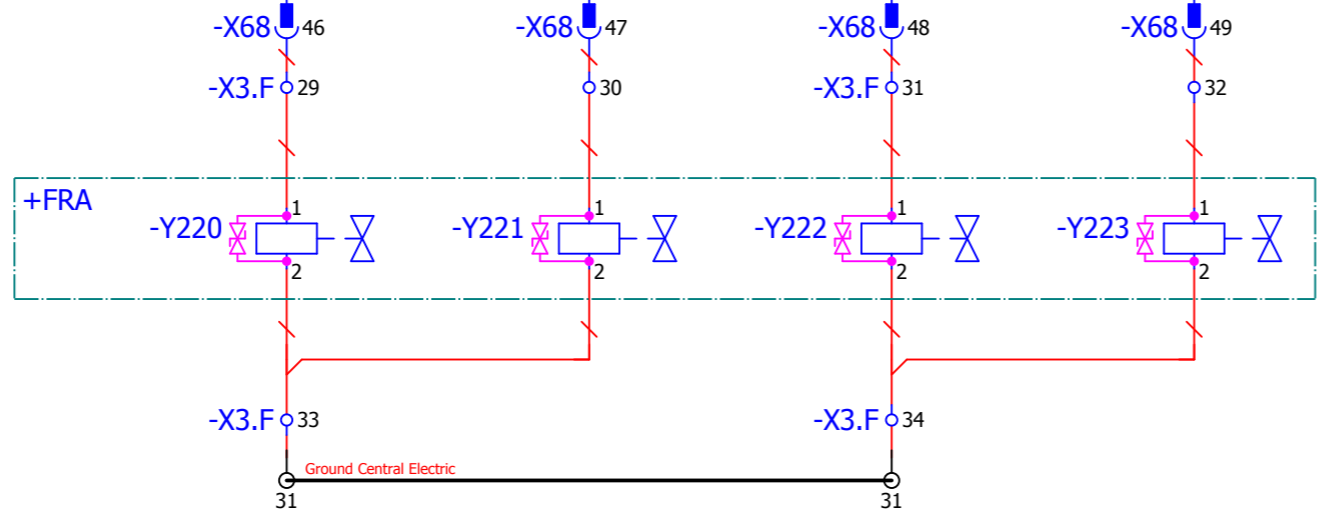
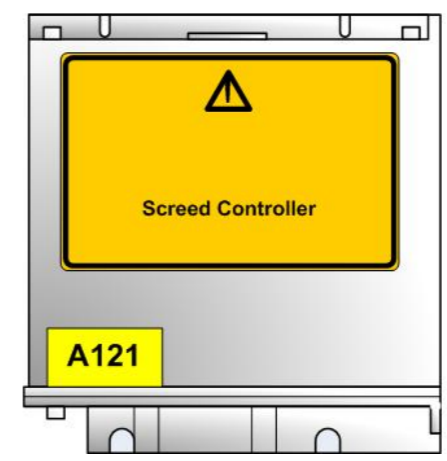








X68 31	X68 32	X68 29	X68 30
AIN_6	AIN_8	AIN_2	AIN_4
-A121	-A121	-A121	-A121
Screed Controller	Screed Controller	Screed Controller	Screed Controller
-BMESX	-BMESX	-BMESX	-BMESX
Switch "Level Left Man Up"	Switch "Level Left Man Down"	Switch "Level Right Man Up"	Switch "Level Right Man Down"
Valve "Screed Level Left Up"	Valve "Screed Level Left Down"	Valve "Screed Level Right Up"	Valve "Screed Level Right Down"
-BMESX	-BMESX	-BMESX	-BMESX
Screed Controller	Screed Controller	Screed Controller	Screed Controller
-A121	-A121	-A121	-A121
PWM_1	PWM_2	PWM_3	PWM_4



Solenoid valve, screed left up Solenoid valve, screed right up

Solenoid valve, screed left down Solenoid valve, screed right down

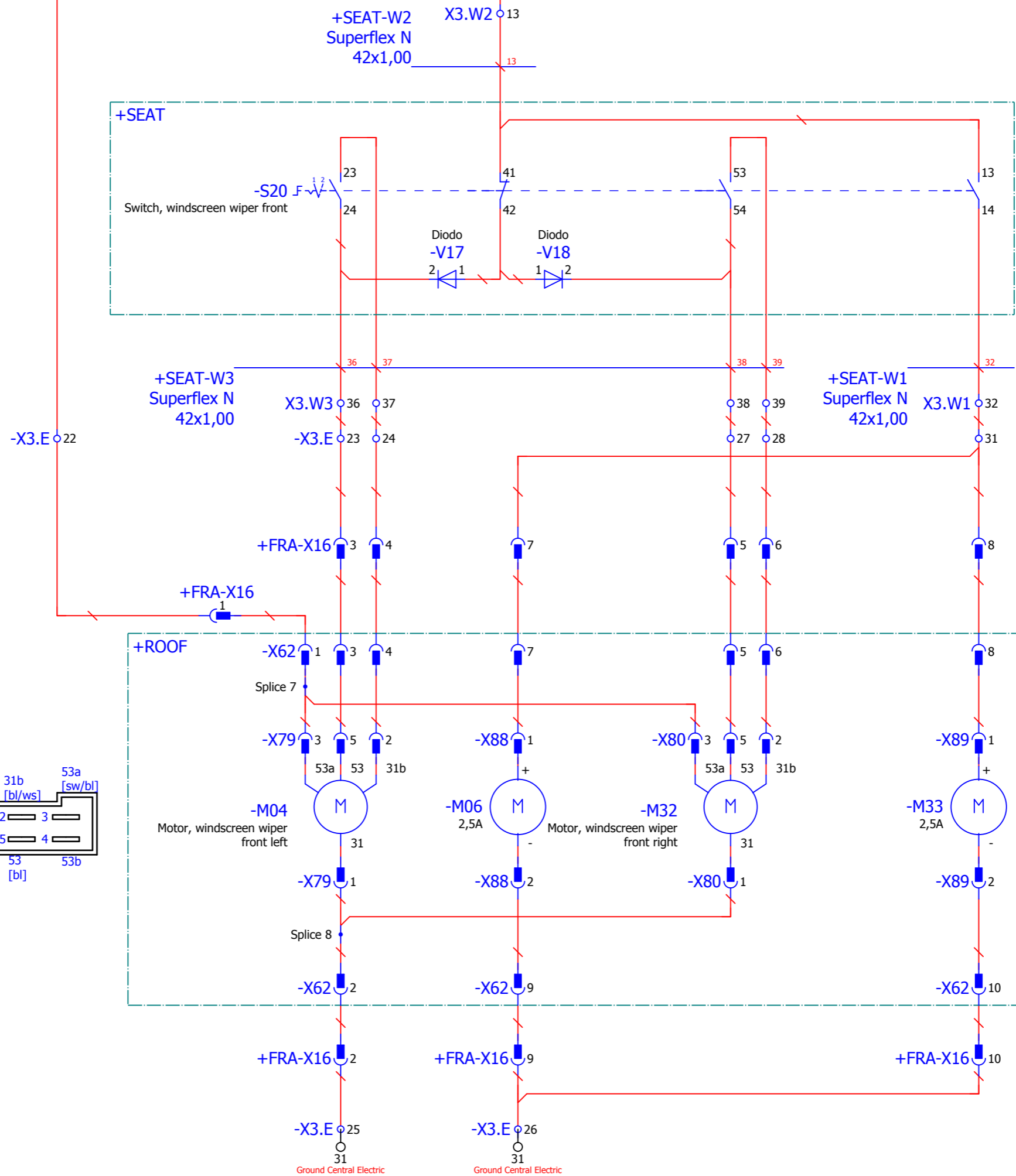
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Created Realizzato	L.Zuccharino 08/02/2017	BF600C "ACM2.1 Evo"		BOMAG FAYAT GROUP		Windscreen Wipers		Higher-level function Impianto	= BF	Page Pagina	71	from from pag.	146
Checked Controllato	R.Zaniboni 10/02/2017	BF700C EDC16						Function Funzione	= ILUM	441			
								Mounting location Montaggio località	+ EBOX				

Device tag list

l'elenco componenti


Device tag SEF	Page Path pagina col	Mounting location montaggio località	Higher-level function impianto	Function text Testo funzionale	characteristics caratteristiche
FM1	24 2	+EBOX	=BF	Multifuse	
FM2	24 5	+EBOX	=BF	-- " --	
G01	12 1	+BAT	=BF	Battery	12V / 100Ah
G02	13 5	+MOT	=BF	Alternator	28V / 100A
G03	12 1	+BAT	=BF	Battery	12V / 100Ah
H07	36 8	+SEAT	=BF	Warning buzzer, breakdown	
H14	39 1	+FRA	=BF	Back-up alarm buzzer	
H46	69 2	+SEAT	=BF	Indicator light, head lights front	
H90	20 1	+SEAT	=BF	Indicator light, GEN-ON	
H91	59 3	+LBOX	=BF	Warning buzzer, screed extension left	
H92	59 8	+RBOX	=BF	Warning buzzer, screed extension right	
H93	59 4	+LBOX	=BF	Warning light,screed extension left	
H94	59 9	+RBOX	=BF	Warning light,screed extension right	
H112	69 8	+SEAT	=BF	Indicator light, rotary beacon	
H114	48 2	+SEAT	=BF	Indicator light, automatic mode conveyor left	
H115	48 4	+SEAT	=BF	Indicator light, automatic mode conveyor right	
H116	50 1	+LBOX	=BF	Indicator light, automatic mode conveyor left	
H119	50 6	+RBOX	=BF	Indicator light, automatic mode conveyor right	
H120	53 2	+SEAT	=BF	Indicator light, automatic mode auger left	
H121	53 6	+SEAT	=BF	Indicator light, automatic mode auger right	
H122	54 3	+LBOX	=BF	Indicator light, automatic mode auger left	
H123	54 9	+RBOX	=BF	Indicator light, automatic mode auger right	
H124	62 3	+SBOX	=BF	Indicator light, load control system	
H145	72 4	+SEAT	=BF	Indicator light, Cleaning	
H146	65 1	+SEAT	=BF	Indicator light, tampers screed on	
H147	65 4	+SEAT	=BF	Indicator light, vibrators plates screed on	
H148	63 6	+SEAT	=BF	Indicator light, floating position screed	
H149	69 4	+SEAT	=BF	Indicator light, working headlights sidewise	
K05	15 6	+EBOX	=BF	Relay, starting current	24V
K11	14 2	+EBOX	=BF	Relay, potential 30 on 15	24V
K13	38 7	+EBOX	=BF	Relay, warning horn	24V
K14	35 2	+FRA	=BF	Relay, glow plug system	24V
K22	39 3	+EBOX	=BF	Relay, engine shut down	24V
K40	37 8	+EBOX	=BF	Relay, emergency off	24V
K41	35 4	+EBOX	=BF	Relay, separation	24V
K69	39 4	+EBOX	=BF	Relay, engine shut down	24V
K118	69 2	+EBOX	=BF	Relay, working lights	24V

0	1	2	3	4	5	6	7	8	9
Created Realizzato	L.Zuccarino 08/02/2017	BF600C "ACM2.1 Evo" BF700C EDC16	 BOMAG FAYAT GROUP	Component-Listing				Higher-level function Impianto =	Page Pagina 81 from pag. 146
Checked Controllato	R.Zaniboni 10/02/2017							Function Funzione ==	441
								Mounting location Montaggio località +	

Terminal strip overview

descrizione della striscia terminale


X3.B		Extra Extra	
Mounting location montaggio località		=BF+EBOX	
Device tag SEF	Page pagina	Path col	
X3.B:1	12	6	
X3.B:2	12	7	
X3.B:6	73	2	
X3.B:7	73	2	
X3.B:8	75	2	
X3.B:9	75	2	
X3.B:10	75	2	
X3.B:11	75	5	
X3.B:12	75	7	
X3.B:13	75	7	
X3.B:14	75	7	

0	1	2	3	4	5	6	7	8	9				
Created Realizzato	L.Zuccharino 08/02/2017	BF600C "ACM2.1 Evo" BF700C EDC16	 BOMAG FAYAT GROUP	Terminal diagram				Higher-level function Impianto	=	Page Pagina	91	from from pag.	146
Checked Controllato	R.Zaniboni 10/02/2017							Function Funzione	= =	441			
								Mounting location Montaggio località	+				

Terminal strip overview

descrizione della striscia terminale

X4		24V power 24V power	
Mounting location montaggio località		=BF+EBOX	
Device tag SEF	Page pagina	Path col	
X4:+	12	1	
X4:-	12	6	

0	1	2	3	4	5	6	7	8	9				
Created Realizzato	L.Zuccharino 08/02/2017	BF600C "ACM2.1 Evo" BF700C EDC16	 BOMAG FAYAT GROUP	Terminal diagram				Higher-level function Impianto	=	Page Pagina	101	from pag.	146
Checked Controllato	R.Zaniboni 10/02/2017							Function Funzione	= =	441			
								Mounting location Montaggio località	+				

Plug overview

descrizione del connettore


Designation descrizione	Mounting location montaggio località	Function text testo funzione
X35	=BF+EBOX	
Contact contatto	Page pagina	Path col
24	15	3
26	29	3
27	29	2
28	21	1
33	29	5
34	43	2
35	43	4
36	40	3
37	40	2
38	39	1
39	39	2
40	40	1
41	40	2
45	44	3
46	44	4
47	44	5
48	44	6
49	44	7
50	15	4
51	39	1
52	15	3
53	29	4
54	21	2
55	21	5
56	21	3
57	21	4
58	21	4
59	21	5
60	21	6
61	27	2
64	39	2
65	21	6
66	21	7
67	21	8
68	21	9
X38	=BF+LBOX	Plug, potentiometer torque
Contact contatto	Page pagina	Path col
1	51	5
2	51	5
3	51	5

Designation descrizione	Mounting location montaggio località	Function text testo funzione
X39	=BF+RBOX	Plug, potentiometer torque
Contact contatto	Page pagina	Path col
1	51	8
2	51	8
3	51	8
X40	=BF+LBOX	Plug, potentiometer torque
Contact contatto	Page pagina	Path col
1	55	4
2	55	4
3	55	4
X41	=BF+RBOX	Plug, potentiometer torque
Contact contatto	Page pagina	Path col
1	55	8
2	55	8
3	55	8
X42	=BF+SBOX	
Contact contatto	Page pagina	Path col
1	62	4
2	62	4
3	62	4
X43	=BF+SBOX	
Contact contatto	Page pagina	Path col
1	62	5
2	62	5
3	62	5
X44	=BF+SBOX	
Contact contatto	Page pagina	Path col
1	62	6
2	62	6
3	62	6
X45	=BF+FRA	
Contact contatto	Page pagina	Path col
1	72	1
2	72	1

Cable diagram

lista cavi

Cable name nome cavo =BF+SEAT-W2	Cable type tipo cavo Superflex N		No. of conductors n° cond 42	Cross-section sezione 1,00		Remark nota		
Function text testo funzione	Page pagina	Path col	Target designation from destinazione da	Conductor cond	Target designation to destinazione a	Page pagina	Path col	Function text testo funzione
	73	4	X3.W2 42	GNYE	SP4	73	4	Splice 4
				1				
				2				
				3				
	49	2	X3.W2 4	4	S225 A1	49	2	Switch, conveyor reverse/load
	58	2	X3.W2 5	5	S239 A1	58	2	Switch, screed extension left
	58	3	X3.W2 6	6	S239 A3	58	2	-- " --
	58	6	X3.W2 7	7	S240 A1	58	6	Switch, screed extension right
	58	6	X3.W2 8	8	S240 A3	58	6	-- " --
	65	5	X3.W2 9	9	S286 A1	65	6	Switch, frequency tamper screed
	65	6	X3.W2 10	10	S286 A3	65	6	-- " --
	65	7	X3.W2 11	11	S287 A1	65	8	Switch, frequency plates screed
	65	8	X3.W2 12	12	S287 A3	65	8	-- " --
	71	5	X3.W2 13	13	S20 41	71	5	Switch, windscreen wiper front
	39	5	X3.W2 14	14	X73 3	39	5	Plug, data collector 2 B
				15				
				16				
				17				
				18				
				19				
	69	3	X3.W2 20	20	S335 14	69	3	Switch, working headlights sidewise
	69	1	X3.W2 21	21	S16 21	69	1	Switch, working lights
	69	1	X3.W2 22	22	S16 14	69	1	
	69	1	X3.W2 23	23	S16 22	69	1	Switch, working lights
	69	7	X3.W2 24	24	S38 13	69	7	Switch, rotary beacon
	69	7	X3.W2 25	25	S38 14	69	7	-- " --
				26				

0	1	2	3	4	5	6	7	8	9
Created Realizzato	L.Zuccharino 08/02/2017	BF600C "ACM2.1 Evo"			Cable diagram W2 Schema cablaggio W2			Higher-level function Impianto =	Page Pagina 121 from pag. 146
Checked Controllato	R.Zaniboni 10/02/2017	BF700C EDC16			Function Funzione ==	441			
					Mounting location Montaggio località +				

Pin overview

descrizione di contatto

A80		Module, data collector 1			
Pin contatto	Page pagina	Path col	Description descrizione	Signal	segnale
X70 : 2	36	4	Dig In 2	Diff.-switch "Return Filter"	
X70 : 3	36	2	Dig In 3	Diff.-switch "Filter 1-4"	
X70 : 4	39	7	Dig In 4	"Hydraulic Screed Connected"	
X70 : 5	36	3	Dig In 5	Floating switch "Hyd. Oil Tank"	
X70 : 6	36	6	Dig In 6	Pressure switch "Air Filter"	
X70 : 7	36	2	Dig In 7	D+ Alternator	
X70 : 8	36	5	Dig In 8	Floating switch "Coolant Level"	
X70 : 9	39	8	Dig In 9	"Power Request Heating"	
X70 : 11	36	6	Dig In 11	"Magnetic Sensor Hydr Contamination"	
X70 : 12	25	3	Gnd	Ground	
X71 : 2	36	5	Resistant In 1	Sensor "Fuel level"	
X71 : 3	36	3	Gnd for KTY In	Temperature sensor "Hydraulic oil"	
X71 : 5	25	2	GND	Ground	
X71 : 6	30	7	CAN high	CAN 1 high	
X71 : 7	30	8	CAN low	CAN 1 low	
X71 : 8	25	2	Ub	Power supply	
X71 : 9	36	7	Dig In 9	"Water Trap"	"Water Trap"
X71 : 10	36	4	KTY In	Temperature sensor "Hydraulic oil"	
X71 : 12	43	8	Current In 2	Sensor "Slope"	

0	1	2	3	4	5	6	7	8	9				
Created Realizzato	L.Zuccarino 08/02/2017	BF600C "ACM2.1 Evo" BF700C EDC16	 BOMAG FAYAT GROUP	Pin overview A80 descrizione di contatto A80				Higher-level function Impianto	=	Page Pagina	131	from from pag.	146
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