





## Schaltplatte "Controller" für FDE/MPE

(SFAK02) FAK 02  
(SFAK03) FAK 03  
702./703.81820

Controller board for FDE/MPE

Pos.-Nr. Pos.-No.	Typ Type	Teil-Nr. Part-No.	Bemerkung Remarks
1) Teile der Platte S 130452/05 Parts of the board S 130452/05			
<u>IC - Bausteine / IC - chips</u>			
IC 51,65,102	SN 74LS00 N	E 630.37001	A 101
IC 18,93	SN 74LS04 N	E 630.37006	A 103
IC 53	SN 74LS10 N	E 630.37004	A 104
IC 78,105	SN 7438 N	E 600.37028	A 14
IC 67	SN 74LS86 N	E 630.37031	A 117
IC 32,58,84, 86,100	SN 74LS08 N	E 630.37036	A 123
IC 20,27,34, 41,48,91	SN 7416 N	E 600.37096	A 43
IC 43,50,74, 81,88,95	SN 74367 N	E 600.37085	A 40
IC 1,8,15, 22,29,36	SN 74368 AN/N	E 600.37094	A 42
IC 39,60,72, 6	SN 74LS74 N	E 630.37042	F 106
IC 19,26,37, 47,54,85, 92,99	SN 74LS175 N	E 630.37097	F 109
IC 33,40	SN 74LS174 N	E 630.37141	F 111
IC 5,12,46, 79,98,87	SN 74LS132 N	E 630.37052	G 104
IC 71	SN 74132 N	E 600.37052	G 04
IC 30	SN 74LS155 N	E 630.37050	H 105
IC 44	SN 74LS139 N	E 630.37129	H 113
IC 55	SN 74145 N	E 600.37145	H 16
IC 57,64	SN 74LS85 N	E 630.37018	K 102
IC 11,25,61, 62	SN 74LS283 N	E 630.37142	K 105
IC 2,4,9, 16,23	SN 74LS191 N	E 630.37076	P 106
IC 68,82,89, 103	SN 74172 N	E 600.37143	X 02

Transistoren / Transistors

T 1,2	BC 237 BC 237 T	E 600.63061 E 600.63053	) wahlweise ) alternatively
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Dioden / Diodes

D 1-3	1 N 4448	E 600.64027	
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Pos.-Nr. Pos.-No.	Typ Type		Teil-Nr. Part-No.	Bemerkung Remarks
<u>Kondensatoren / Capacitors</u>				
C 9	220 $\mu$ F	16 V	E 600.50020	
C 22	100 $\mu$ F	16 V	E 600.50061	) wahlweise ) alternatively
	100 $\mu$ F	16 V	E 600.50070	
	100 $\mu$ F	16 V	E 600.50112	
C 27	22 $\mu$ F	25 V	E 600.50059	) wahlweise ) alternatively
	22 $\mu$ F	40 V	E 600.50068	
	22 $\mu$ F	40 V	E 600.50098	
C 1, 26, 28	10 $\mu$ F	16 V	E 600.50082	
C 2-8, 10-17, 19-21, 25, 29-34	0,1 $\mu$ F	16 V	E 600.53010	
C 24	0,01 $\mu$ F	100 V	E 600.52029	
C 23	3300 pF	100 V	E 600.52027	
C 18, 37, 38, 39	1000 pF	100 V	E 600.52025	
C 35, 36	680 pF	50 V	E 600.53015	
<u>Widerstände / Resistors</u>				
R 12, 23	100 Ohm	1/8 W	E 600.40189	
R 1-10, 13, 15-18	120 Ohm	1/8 W	E 600.40190	
R 20, 22	1 kOhm	1/8 W	E 600.40195	
R 14, 21	10 kOhm	1/8 W	E 600.40200	
R 11	22 kOhm	1/8 W	E 600.40208	
R 19	220 Ohm	1/8 W	E 600.40229	
R 24	330 Ohm	1/8 W	E 600.40254	
R 25	560 Ohm	1/8 W	E 600.40194	
<u>Allgemeine Teile / General parts</u>				
M 10, 17, 31, 38I, 45, 59, 52, 73I, 80, 94I, 94II, 73II, 38II	8 pol.		E 435.02532	Kontaktstift ) Contact pin ) wahlw. Stiftleiste ) altern. Pin bar )
	8 pol.		E 600.23115	
	2 pol.		E 600.23121	Federleiste Spring contact strip
	8 pol.		E 600.23127	Steckverbindung Connection
	40 pol.		E 600.23057	Buchsenleiste Bushing strip
			303.00415	Codierteil Code part
Abb. 1 Pict.1	16 adrig 16 wire		E 601.21135	Bandkabel Flat cable w. plug

Pos.-Nr. Pos.-No.	Typ Type	Teil-Nr. Part-No.	Bemerkung Remarks
<u>Allgemeine Teile / General parts</u>			
Abb.2 Pict.2	M 3	402.26004	Sechskantmutter Nut
Abb. 3 Pict.3		402.57007	Scheibe Washer
Abb. 4 Pict.4		403.57611	Scheibe Washer
Abb. 5 Pict.5		402.36680	Sechskantbolzen Bolt (hex.-head)
Abb. 6 Pict.6		301.00481	Meßpunktstift Measuring point pin

2) Teile der Platte S 230453/07  
Parts of the board S 230453/07

<u>IC - Bausteine / IC - chips</u>			
IC 11,22,51, 52	SN 74LS00 N	E 630.37001	A 101
IC 34,46,47	SN 74S00 N	E 633.37001	A 401
IC 43,60	SN 74LS04 N	E 630.37006	A 103
IC 44	SN 74LS10 N	E 630.37004	A 104
IC 18	SN 74LS 51 N	E 630.37009	A 107
IC 45	SN 74LS86 N	E 630.37031	A 117
IC 50	SN 74LS37 N	E 630.37027	A 118
IC 48,103,56, 104	SN 74S37 N	E 633.37027	A 418
IC 37,39,58, 59	SN 74LS08 N	E 630.37036	A 123
IC 96,105	SN 74S08 N	E 633.37036	A 423
IC 31,41,79	SN 74LS74 N	E 630.37042	F 106
IC 29,36	SN 7474 N	E 600.37042	F 06
IC 74	SN 74LS175 N	E 630.37097	F 109
IC 72,81,88, 95,102	SN 74LS174 N	E 630.37141	F 111
IC 53,61,75, 68,89,82	SN 74S174 N	E 633.37141	F 411
IC 4,5,12, 19,63	SN 74S112 N	E 633.37140	F 412
IC 14,35	SN 74S124 N	E 633.37087	G 498
IC 65	SN 74LS151 N	E 630.37015	H 102
IC 73	SN 74LS155 N	E 630.37050	H 105
IC 49	SN 74S153 N	E 633.37049	H 404
IC 33	SN 74S157 N	E 633.37059	H 407
IC 9,16,83	SN 74LS85 N	E 630.37018	K 102
IC 76,84	SN 74LS283 N	E 630.37142	K 105
IC 86,87	SN 74LS295 N	E 630.37139	N 106

Pos.-Nr. Pos.-No.	Typ Type	Teil-Nr. Part-No.	Bemerkung Remarks
<u>IC - Bausteine / IC - chips</u>			
IC 2,3,23, 24	SN 7495 AN	E 600.37020	N 02
IC 93,94, 100,101	SN 74LS163 AN	E 630.37023	P103
IC 40,54,62, 90,91,98	SN 74S163 N SN 74S161 N	E 633.37023 E 633.37038	P 403 ) wahlweise P 409 ) alternatively
IC 38	9401 DC/PC	E 600.37151	X 03
IC 8	LM 723 CN/CD	E 600.35026	V 18
IC 13I	TDA 1034 B	E 600.35049	V 26
IC 99	SN 74LS157 N	E 630.37059	H 107
IC 32	SN 74LS153 N	E 630.37049	H 104
IC 55	SN 74S86 N	E 633.37031	A 417

Transistoren / Transistors

T 1	BD 675	E 600.63046	
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Dioden / Diodes

D 1-4	1 N 4448	E 600.64027	
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Kondensatoren / Capacitors

C 15,21	10 $\mu$ F	16 V	E 600.50082
C 2,3,4,6, 7,8,20, 22-26, 28-45,13, 16,48,49, 52-54	0,1 $\mu$ F	16 V	E 600.53010
C 9	0,01 $\mu$ F	100 V	E 600.52029
C 1	470 pF	50 V	E 600.53016
C 12,27	330 pF	50 V	E 600.53014
C 11	47 pF	100 V	E 600.53011
C 18	22 pF	50 V	E 600.53024
C 50,51	4,7 pF	63 V	E 600.53032
C 17	10-40 pF	250 V	E 600.53025
C 14,19	3-10 pF	25 V	E 600.53033
C 47	3,9 pF	63 V	E 600.53036
C 46	10 pF	63 V	E 600.53037
C 10	0,022 $\mu$ F	100 V	E 600.52030

Widerstände / Resistors

R 26	270 Ohm	1/8 W	E 600.40191
R 27,30	330 Ohm	1/8 W	E 600.40254
R 21	820 Ohm	1/8 W	E 600.40209
R 6,8,14 28,31	1 kOhm	1/8 W	E 600.40195

Pos.-Nr. Pos.-No.	Typ Type		Teil-Nr. Part-No.	Bemerkung Remarks
<u>Widerstände / Resistors</u>				
R 29, 32	1,2 kOhm	1/8 W	E 600.40210	
R 10	1,5 kOhm	1/8 W	E 600.40211	
R 22	1,8 kOhm	1/8 W	E 600.40221	
R 13, 15, 24, 9	2,2 kOhm	1/8 W	E 600.40212	
R 35, 36	100 Ohm	1/8 W	E 600.40189	
R 16, 25, 5, 7	3,3 kOhm	1/8 W	E 600.40223	
R 3	3,9 kOhm	1/8 W	E 600.40243	
R 4, 11	6,8 kOhm	1/8 W	E 600.40202	
R 2, 17, 18, 19, 20	10 kOhm	1/8 W	E 600.40200	
R 33, 34,	1 kOhm	1/4 W	E 600.40120	
R 1	2,2 Ohm	1/3 W	E 600.40330	
R 12, 23	25 kOhm	1/2 W	E 611.44044	regelbar/variable
<u>Allgemeine Teile / General parts</u>				
M 15I, 15II, 66I, 8 pol. 66II, 67I, 67II, 25I, 25II, 26I, 26II, 30I, 42I, 42II, 80I, 80II, 69I, 69II, 97I, 97II			E 435.02532	Kontaktstift Contact pin
	8 pol.		E 600.23127	Steckverbindung )
	2 pol.		E 600.23121	Connection )
				Federleiste ) wahlw.
				Spring contact ) altern.
				strip )
D 1-4	3,3 uH	500 mA	E 600.77056	Drossel Choke
Qu 1	40 MHz		E 600.88010	Schwingquarz Quartz oscillator
Qu 2	8 MHz		E 600.88009	Schwingquarz Quartz oscillator
Sch. 1, 2	3 pol.		E 603.23115	Stiftleiste Pin bar
	2 pol.		E 600.23121	Federleiste Spring contact strip
Abb. 1 Pict.1	24 pol.		E 600.23123	Sockel Socket
Abb. 2 Pict.2	16 pol.		E 602.23123	Sockel Socket
Abb. 3 Pict.3	2x 8 pol.		E 603.23144	Steckverbindung Connection

Pos.-Nr. Pos.-No.	Typ Type	Teil-Nr. Part-No.	Bemerkung Remarks
<u>Allgemeine Teile / General parts</u>			
Abb. 4 Pict.4		301.00481	Meßpunktstift Measuring point pin
Abb. 5 Pict.5	M 3x7	451.01021	Zylinderschraube Screw (cyl.-head)
Abb. 6 Pict.6		430.26013	Sechskantmutter Nut
Abb. 7 Pict.7		402.57001	Scheibe Washer