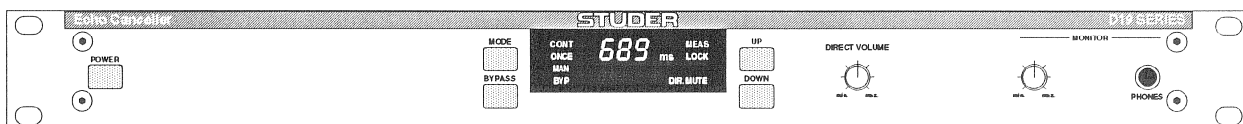

STUDER Echo Cancellor

Schemata / Circuit Diagrams



Prepared and edited by:
Studer Professional Audio AG
Technical Documentation
Althardstrasse 30
CH-8105 Regensdorf - Switzerland

Copyright by Studer Professional Audio AG
Printed in Switzerland
Order no. 10.27.4420 (Ed. 0898)

We reserve the right to make alterations

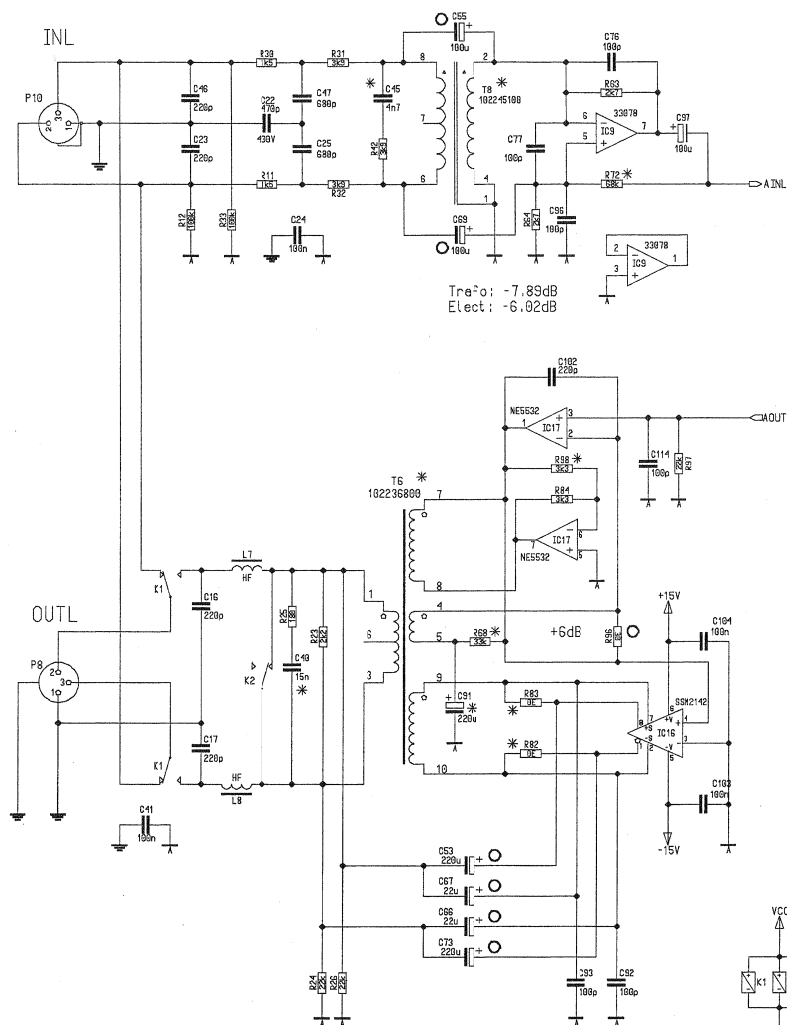
Studer is a registered trade mark of Studer Professional Audio AG, Regensdorf

SCHEMATA / CIRCUIT DIAGRAMS

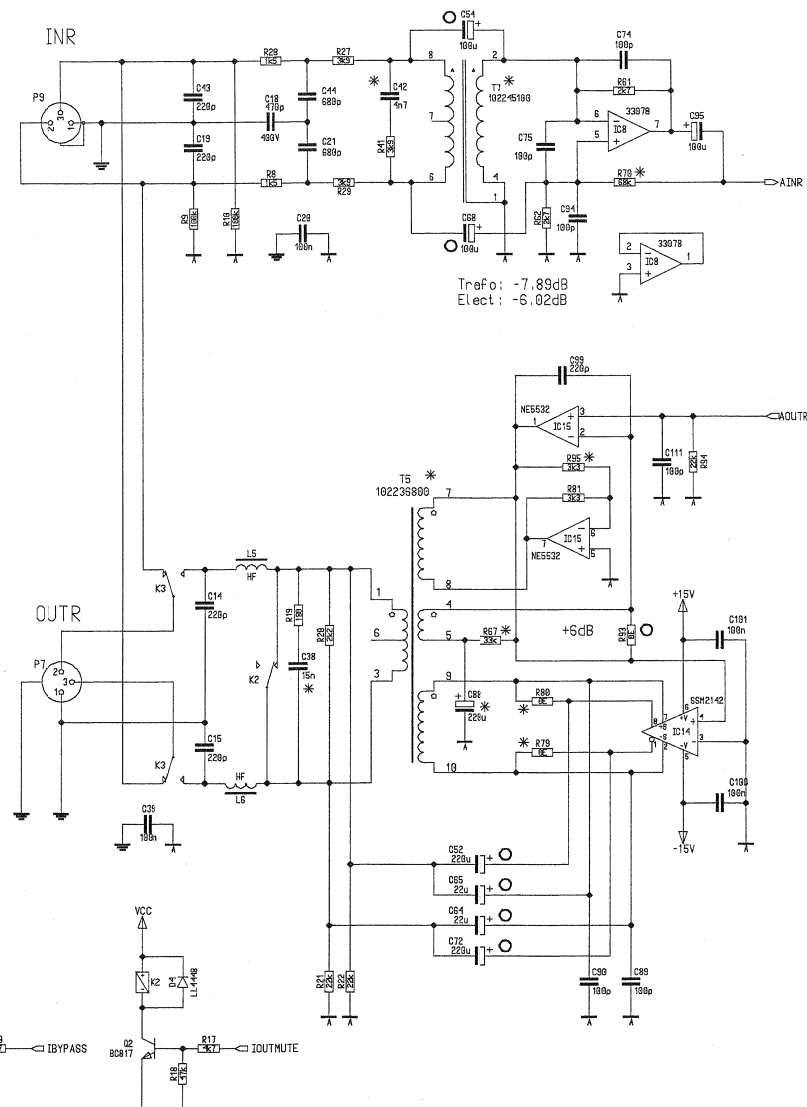
Main Board	1.662.030.20
Keyboard	1.662.040.00
DSP Board	1.662.045.00



Main Board 1.662.030.20

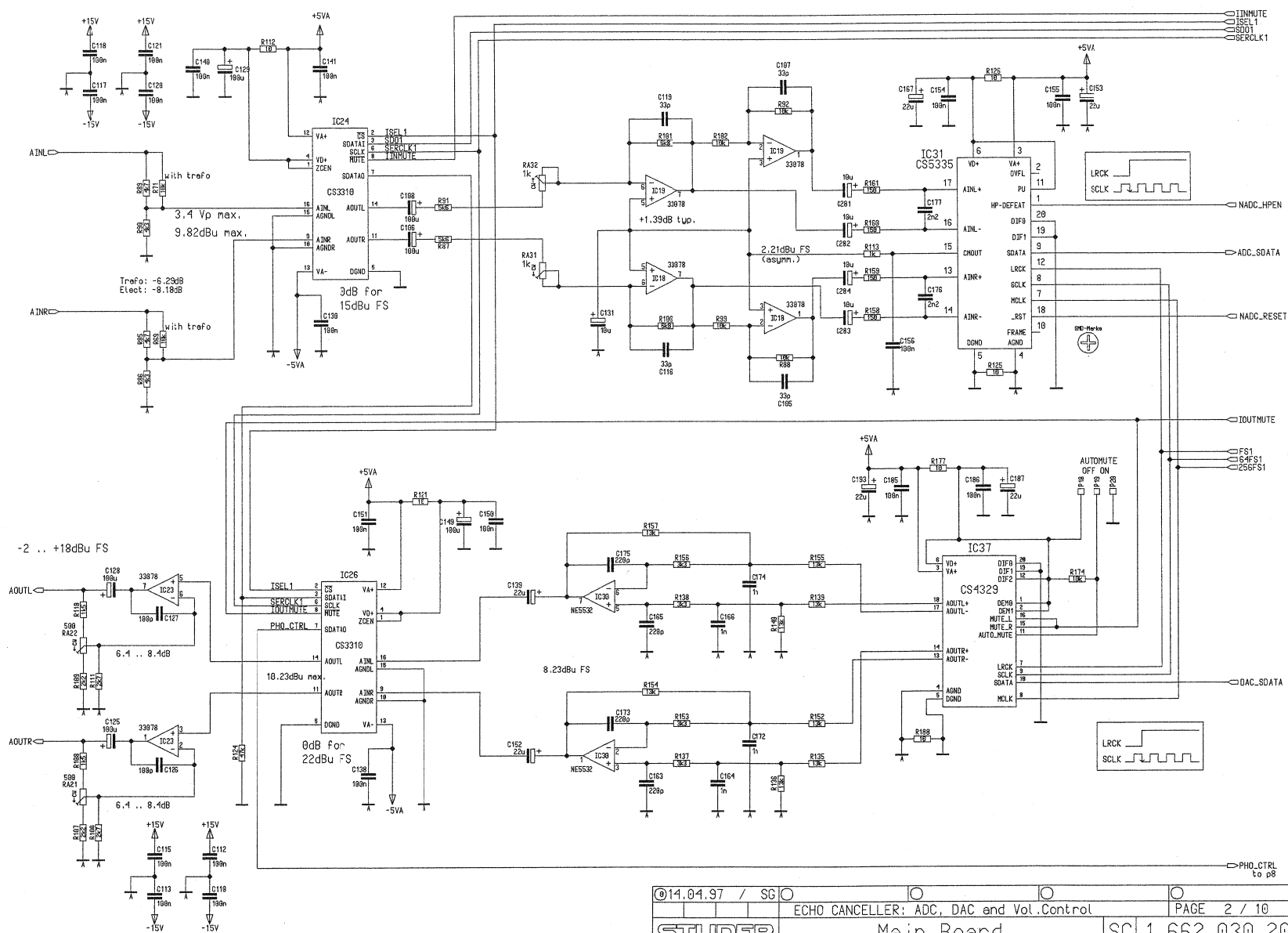


- only used with electrically balanced I/O
- * only used with trafo balanced I/O





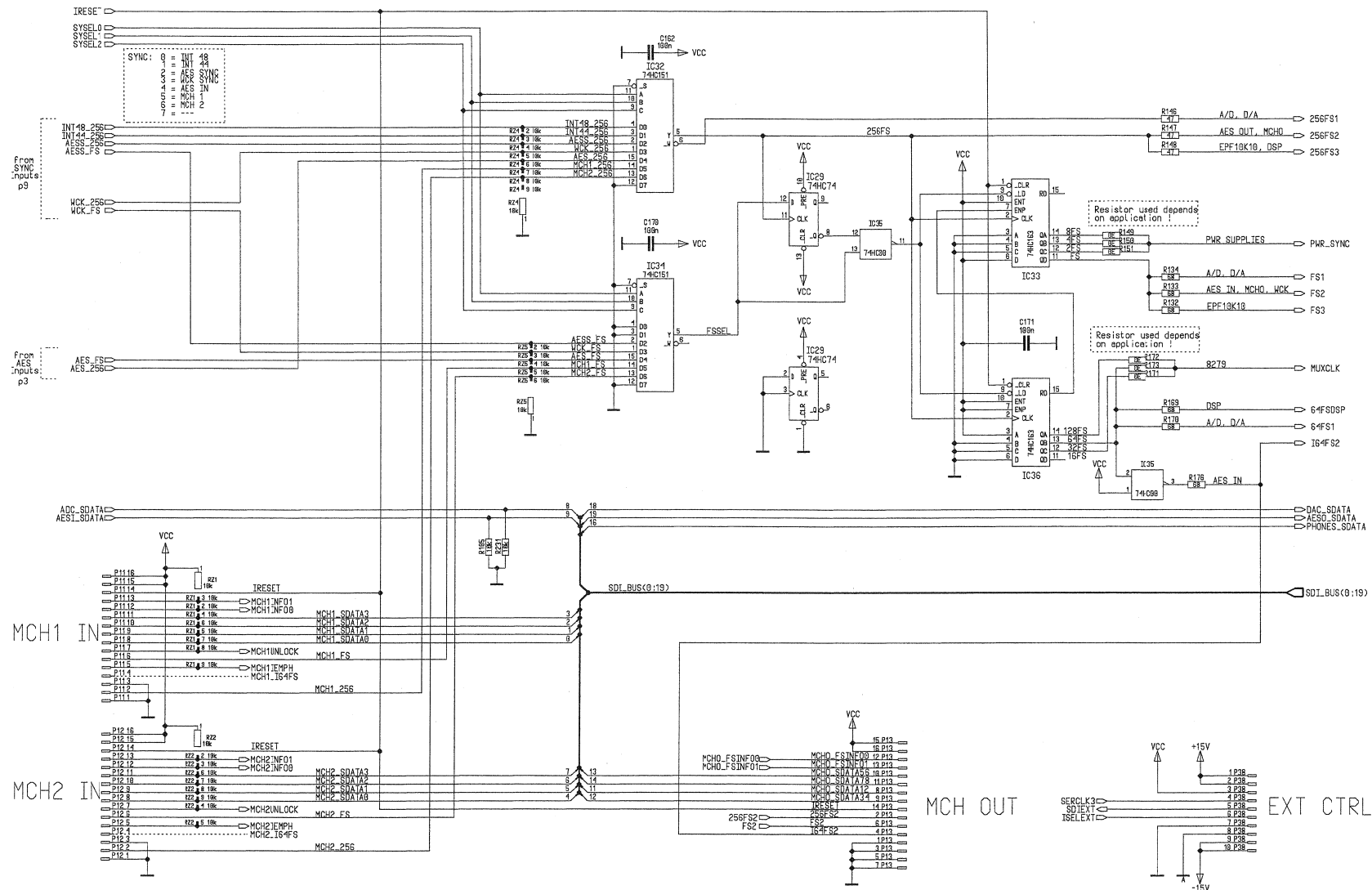
Main Board 1.662.030.20





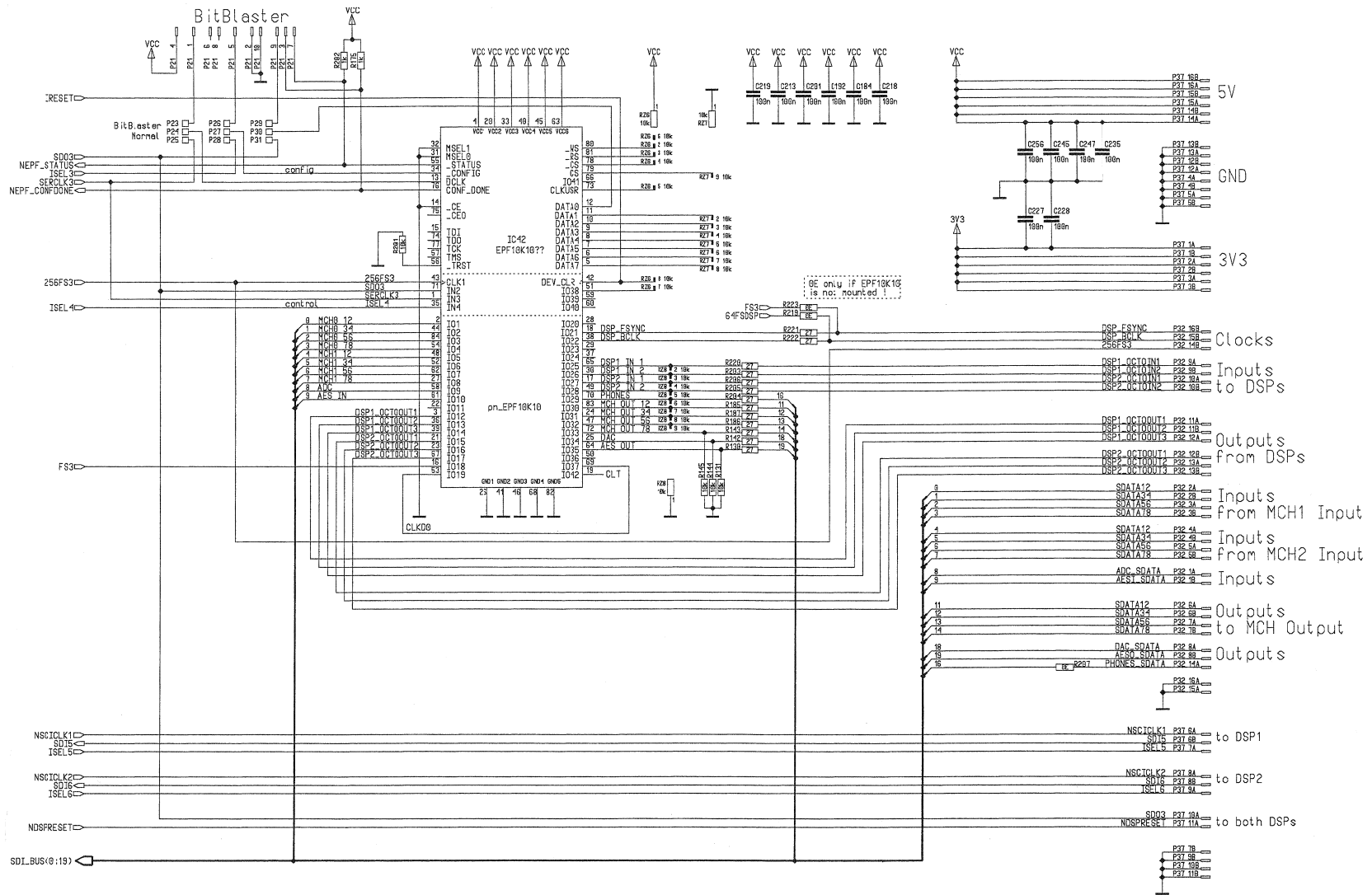


Main Board 1.662.030.20



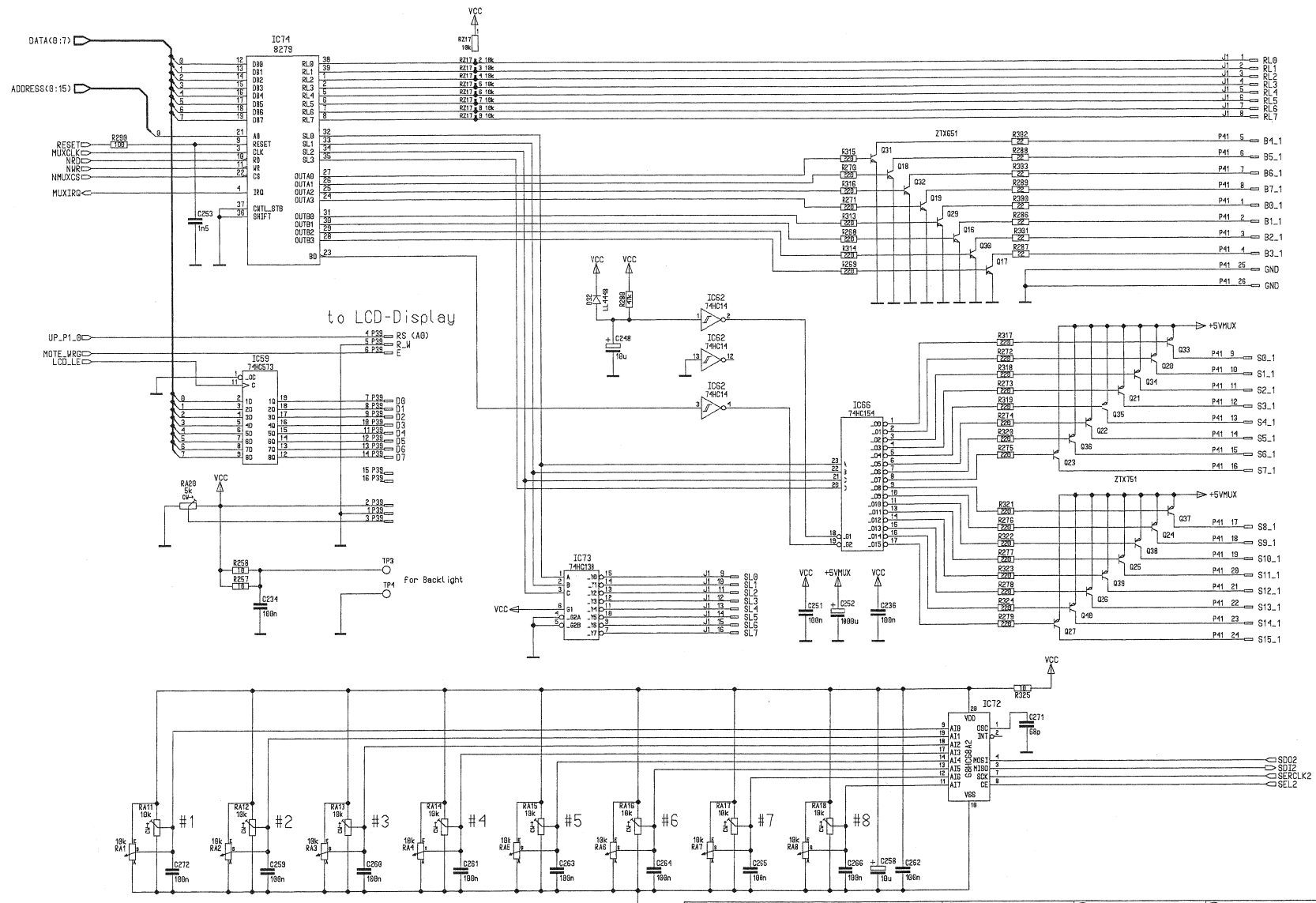


Main Board 1.662.030.20



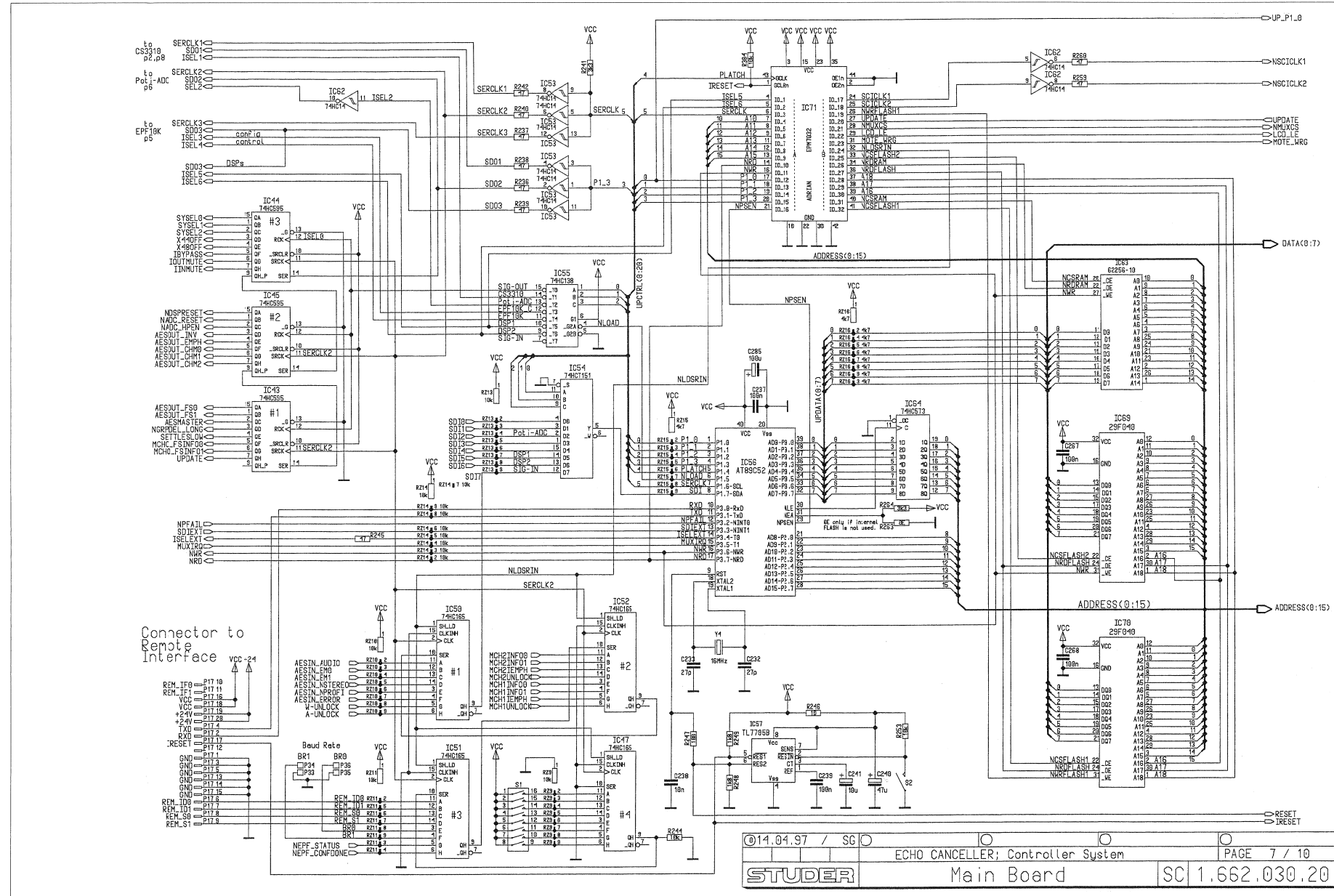


Main Board 1.662.030.20



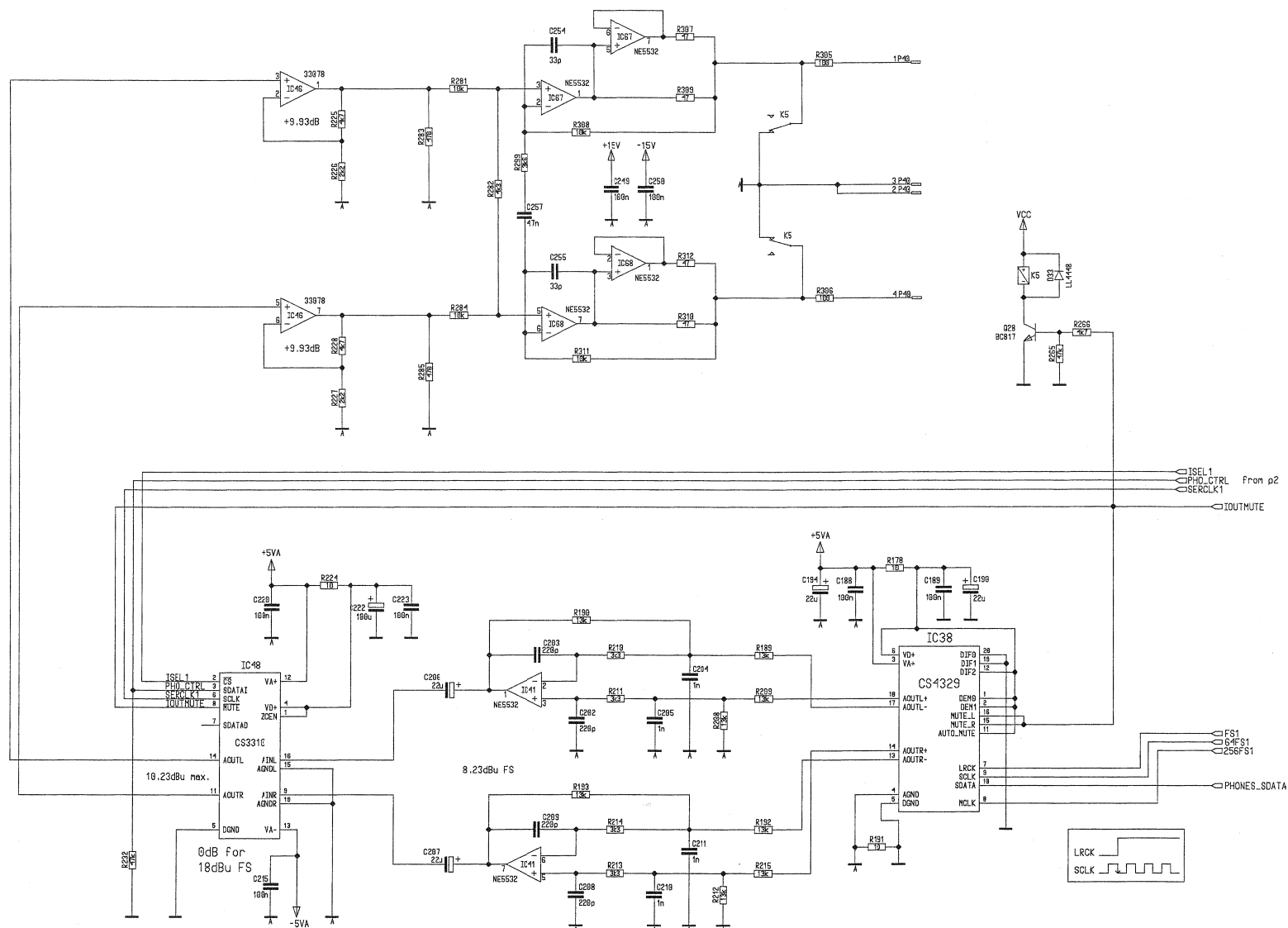


Main Board 1.662.030.20



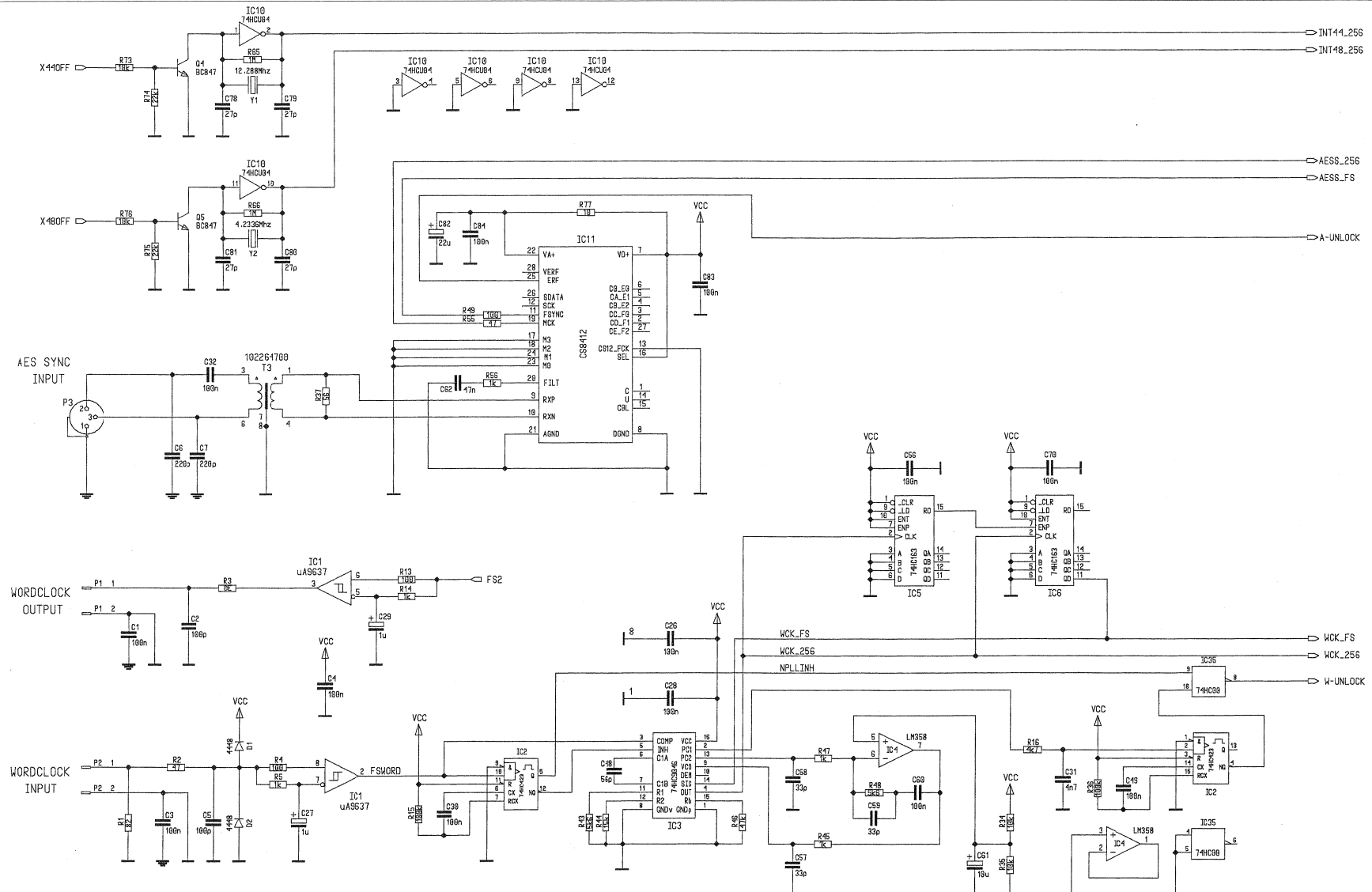


Main Board 1.662.030.20



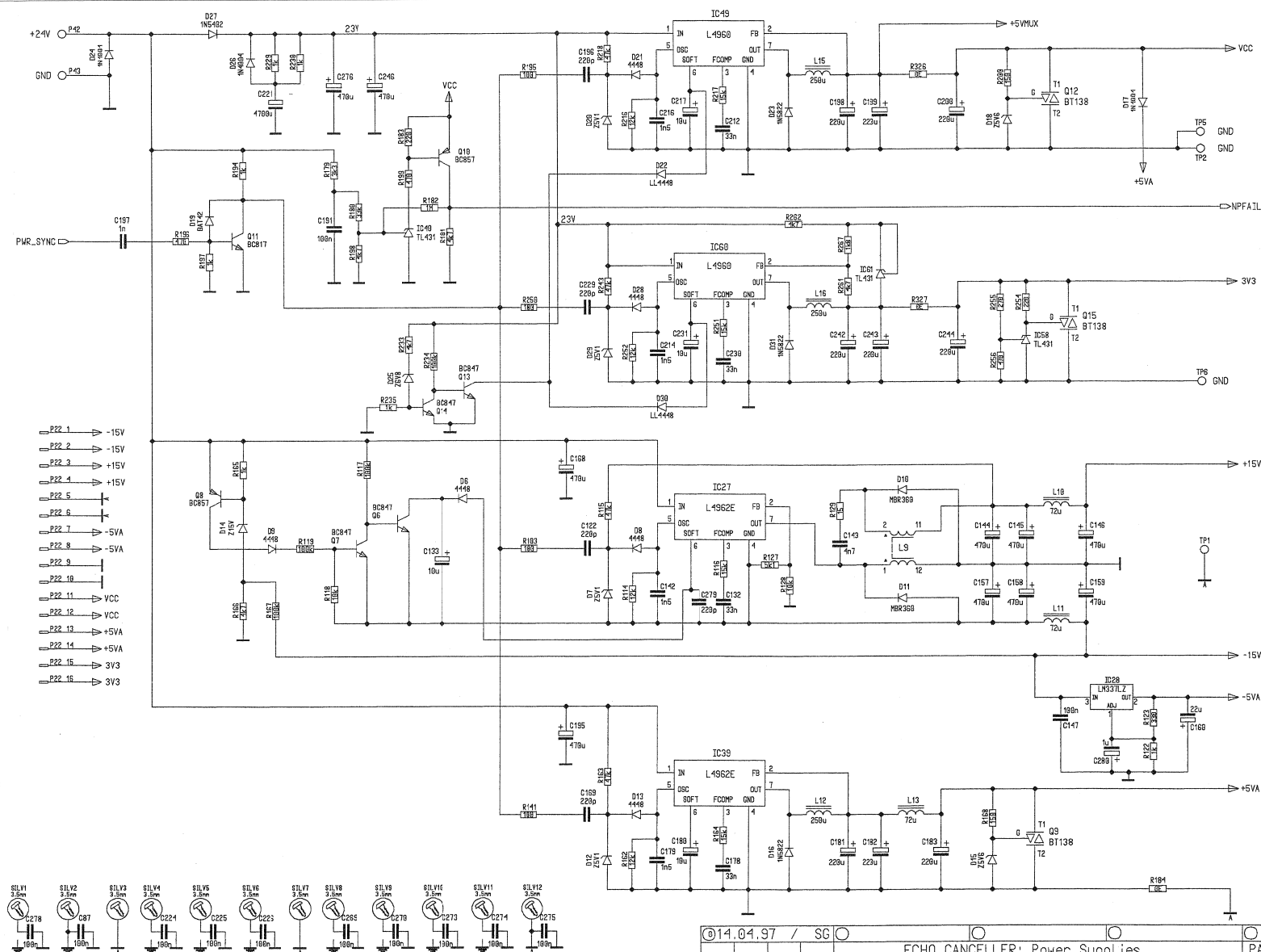


Main Board 1.662.030.20





Main Board 1.662.030.20





Main Board I.662.030.20

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	not used	100n		CER 50V, 10%, X7R, 0805	0	C 82	not used	22u		EL 25V, 20%, RM5
0	C 2	not used	100p		CER 50V, 5%, C0G, 0603	0	C 83	not used	100n		CER 50V, 10%, X7R, 0805
0	C 3	not used	100n		CER 50V, 10%, X7R, 0805	0	C 84	not used	100n		CER 50V, 10%, X7R, 0805
0	C 4	not used	100n		CER 50V, 10%, X7R, 0805	0	C 85	not used	22u		EL 25V, 20%, RM5
0	C 5	not used	100p		CER 50V, 5%, C0G, 0603	0	C 86	not used	100n		CER 50V, 10%, X7R, 0805
0	C 6	not used	220p		C 220 P, 10%, 400V, CER	0	C 87	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 7	not used	220p		C 220 P, 10%, 400V, CER	0	C 88	not used	220u		EL 16V, 20%, RM5
0	C 8	not used	56p		CER 50V, 5%, C0G, 0603	0	C 89	59.60.2249	100p		CER 50V, 5%, C0G, 0603
0	C 9	not used	100n		CER 50V, 10%, X7R, 0805	0	C 90	59.60.2249	100p		CER 50V, 5%, C0G, 0603
0	C 10	not used	220p		C 220 P, 10%, 400V, CER	0	C 91	not used	220u		EL 16V, 20%, RM5
0	C 11	not used	220p		C 220 P, 10%, 400V, CER	0	C 92	not used	100p		CER 50V, 5%, C0G, 0603
0	C 12	not used	56p		CER 50V, 5%, C0G, 0603	0	C 93	not used	100p		CER 50V, 5%, C0G, 0603
0	C 13	not used	56p		CER 50V, 5%, C0G, 0603	0	C 94	59.60.0101	100p		CER 63V, 5%, C0G, 0805
0	C 14	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 95	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 15	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 96	59.60.0101	100p		CER 63V, 5%, C0G, 0805
0	C 16	not used	220p		C 220 P, 10%, 400V, CER	0	C 97	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 17	not used	220p		C 220 P, 10%, 400V, CER	0	C 98	not used	100n		CER 50V, 10%, X7R, 0805
0	C 18	59.32.1471	470p		C 470 P, 10%, 400V, CER	0	C 99	59.60.2257	220p		CER 50V, 5%, C0G, 0603
0	C 19	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 100	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 20	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 101	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 21	59.05.1681	680p		PP, 1%, 630V	0	C 102	not used	220p		CER 50V, 5%, C0G, 0603
0	C 22	59.32.1471	470p		C 470 P, 10%, 400V, CER	0	C 103	not used	100n		CER 50V, 10%, X7R, 0805
0	C 23	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 104	not used	100n		CER 50V, 10%, X7R, 0805
0	C 24	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 105	59.60.0330	33p		CER 63V, 5%, C0G, 0805
0	C 25	59.05.1681	680p		PP, 1%, 630V	0	C 106	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 26	not used	100n		CER 50V, 10%, X7R, 0805	0	C 107	59.60.0330	33p		CER 63V, 5%, C0G, 0805
0	C 27	not used	1u		EL 50V, 20%, RM5	0	C 108	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 28	not used	100n		CER 50V, 10%, X7R, 0805	0	C 109	not used	100n		CER 50V, 10%, X7R, 0805
0	C 29	not used	1u		EL 50V, 20%, RM5	0	C 110	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 30	not used	100n		CER 50V, 10%, X7R, 0805	0	C 111	59.60.2249	100p		CER 50V, 5%, C0G, 0603
0	C 31	not used	4n7		CER 50V, 10%, X7R, 0805	0	C 112	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 32	not used	100n		CER 50V, 10%, X7R, 0805	0	C 113	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 33	not used	56p		CER 50V, 5%, C0G, 0603	0	C 114	not used	100p		CER 50V, 5%, C0G, 0603
0	C 34	not used	100n		CER 50V, 10%, X7R, 0805	0	C 115	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 35	not used	100n		CER 50V, 10%, X7R, 0805	0	C 116	59.60.0330	33p		CER 63V, 5%, C0G, 0805
0	C 36	not used	470p		CER 50V, 5%, C0G, 0805	0	C 117	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 37	not used	470p		CER 50V, 5%, C0G, 0805	0	C 118	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 38	not used	15n		PP, 2.5%, 63V	0	C 119	59.60.0330	33p		CER 63V, 5%, C0G, 0805
0	C 39	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 120	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 40	not used	15n		PP, 2.5%, 63V	0	C 121	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 41	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 122	59.60.2257	220p		CER 50V, 5%, C0G, 0603
0	C 42	59.05.2472	4n7		PP, 2.5%, 63V	0	C 123	not used	100n		CER 50V, 10%, X7R, 0805
0	C 43	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 124	not used	100n		CER 50V, 10%, X7R, 0805
0	C 44	59.05.1681	680p		PP, 1%, 630V	0	C 125	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 45	59.05.2472	4n7		PP, 2.5%, 63V	0	C 126	59.60.2249	100p		CER 50V, 5%, C0G, 0603
0	C 46	59.32.1221	220p		C 220 P, 10%, 400V, CER	0	C 127	59.60.2249	100p		CER 50V, 5%, C0G, 0603
0	C 47	59.05.1681	680p		PP, 1%, 630V	0	C 128	not used	100uF		EL 16V, 20%, RM5
0	C 48	not used	56p		CER 50V, 5%, C0G, 0603	0	C 129	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 49	not used	100n		CER 50V, 10%, X7R, 0805	0	C 130	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 50	not used	100n		CER 50V, 10%, X7R, 0805	0	C 131	59.22.6100	10u		EL 35V, 20%, RM5
0	C 51	not used	470p		CER 50V, 5%, C0G, 0805	0	C 132	59.60.3331	33n		CER 50V, 10%, X7R, 0805
0	C 52	59.22.4221	220u		EL 16V, 20%, RM5	0	C 133	59.22.6100	10u		EL 35V, 20%, RM5
0	C 53	not used	220u		EL 16V, 20%, RM5	0	C 134	not used	100n		CER 50V, 10%, X7R, 0805
0	C 54	not used	100uF		EL 16V, 20%, RM5	0	C 135	not used	47p		CER 50V, 5%, C0G, 0603
0	C 55	not used	100uF		EL 16V, 20%, RM5	0	C 136	not used	33p		CER 50V, 5%, C0G, 0603
0	C 56	not used	100n		CER 50V, 10%, X7R, 0805	0	C 137	not used	100n		CER 50V, 10%, X7R, 0805
0	C 57	not used	33p		CER 50V, 5%, C0G, 0603	0	C 138	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 58	not used	33p		CER 50V, 5%, C0G, 0603	0	C 139	59.22.5220	22u		EL 25V, 20%, RM5
0	C 59	not used	33p		CER 50V, 5%, C0G, 0603	0	C 140	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 60	not used	100n		CER 50V, 10%, X7R, 0805	0	C 141	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 61	not used	10u		EL 35V, 20%, RM5	0	C 142	59.60.3315	1n5		CER 50V, 10%, X7R, 0805
0	C 62	not used	47n		CER 50V, 10%, X7R, 0805	0	C 143	59.05.2472	4n7		PP, 2.5%, 63V
0	C 63	not used	470p		CER 50V, 5%, C0G, 0805	0	C 144	59.22.5471	470u		EL 25V, 20%, RM5
0	C 64	59.22.5220	22u		EL 25V, 20%, RM5	0	C 145	59.22.5471	470u		EL 25V, 20%, RM5
0	C 65	59.22.5220	22u		EL 25V, 20%, RM5	0	C 146	59.22.5471	470u		EL 25V, 20%, RM5
0	C 66	not used	22u		EL 25V, 20%, RM5	0	C 147	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 67	not used	22u		EL 25V, 20%, RM5	0	C 148	not used	100n		CER 50V, 10%, X7R, 0805
0	C 68	not used	100uF		EL 16V, 20%, RM5	0	C 149	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 69	not used	100uF		EL 16V, 20%, RM5	0	C 150	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 70	not used	100n		CER 50V, 10%, X7R, 0805	0	C 151	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 71	not used	47n		CER 50V, 10%, X7R, 0805	0	C 152	59.22.5220	22u		EL 25V, 20%, RM5
0	C 72	59.22.4221	220u		EL 16V, 20%, RM5	0	C 153	59.22.5220	22u		EL 25V, 20%, RM5
0	C 73	not used	220u		EL 16V, 20%, RM5	0	C 154	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 74	59.60.0101	100p		CER 63V, 5%, C0G, 0805	0	C 155	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 75	59.60.0101	100p		CER 63V, 5%, C0G, 0805	0	C 156	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 76	59.60.0101	100p		CER 63V, 5%, C0G, 0805	0	C 157	59.22.5471	470u		EL 25V, 20%, RM5
0	C 77	59.60.0101	100p		CER 63V, 5%, C0G, 0805	0	C 158	59.22.5471	470u		EL 25V, 20%, RM5
0	C 78	not used	27p		CER 50V, 5%, C0G, 0603	0	C 159	59.22.5471	470u		EL 25V, 20%, RM5
0	C 79	not used	27p		CER 50V, 5%, C0G, 0603	0	C 160	59.22.5220	22u		EL 25V, 20%, RM5
0	C 80	59.60.2235	27p		CER 50V, 5%, C0G, 0603	0	C 161	not used	100n		CER 50V, 10%, X7R, 0805
0	C 81	59.60.2235	27p		CER 50V, 5%, C0G, 0603	0	C 162	59.60.3337	100n		CER 50V, 10%, X7R, 0805



Main Board I.662.030.20

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 163	59.05.2221	220p		PP, 2.5%, 630V	0	C 244	59.22.4221	220u		EL 16V, 20%, RM5
0	C 164	59.05.2102	1n		PP, 2.5%, 630V	0	C 245	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 165	not used	220p		PP, 2.5%, 630V	0	C 246	59.22.6471	470u		EL 40V, 20%, RM5
0	C 166	not used	1n		PP, 2.5%, 630V	0	C 247	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 167	59.22.5220	22u		EL 25V, 20%, RM5	0	C 248	59.22.6100	10u		EL 35V, 20%, RM5
0	C 168	59.22.6471	470u		EL 40V, 20%, RM5	0	C 249	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 169	59.60.2257	220p		CER 50V, 5%, COG, 0603	0	C 250	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 170	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 251	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 171	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 252	59.22.3102	1m		EL 10V, 20%, RM5
0	C 172	59.05.2102	1n		PP, 2.5%, 630V	0	C 253	59.60.3315	1n5		CER 50V, 10%, X7R, 0805
0	C 173	59.05.2221	220p		PP, 2.5%, 630V	0	C 254	59.60.2237	33p		CER 50V, 5%, COG, 0603
0	C 174	not used	1n		PP, 2.5%, 630V	0	C 255	59.60.2237	33p		CER 50V, 5%, COG, 0603
0	C 175	not used	220p		PP, 2.5%, 630V	0	C 256	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 176	59.05.2222	2n2		PP, 2.5%, 160V	0	C 257	not used	47n		PETP, 63V, 10%, RM5
0	C 177	59.05.2222	2n2		PP, 2.5%, 160V	0	C 258	59.22.6100	10u		EL 35V, 20%, RM5
0	C 178	59.60.3331	33n		CER 50V, 10%, X7R, 0805	0	C 259	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 179	59.60.3315	1n5		CER 50V, 10%, X7R, 0805	0	C 260	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 180	59.22.6100	10u		EL 35V, 20%, RM5	0	C 261	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 181	59.22.4221	220u		EL 16V, 20%, RM5	0	C 262	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 182	59.22.4221	220u		EL 16V, 20%, RM5	0	C 263	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 183	59.22.4221	220u		EL 16V, 20%, RM5	0	C 264	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 184	not used	100n		CER 50V, 10%, X7R, 0805	0	C 265	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 185	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 266	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 186	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 267	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 187	59.22.5220	22u		EL 25V, 20%, RM5	0	C 268	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 188	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 269	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 189	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 270	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 190	59.22.5220	22u		EL 25V, 20%, RM5	0	C 271	59.60.2245	68p		CER 50V, 5%, COG, 0603
0	C 191	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	C 272	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 192	not used	100n		CER 50V, 10%, X7R, 0805	0	C 273	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 193	59.22.5220	22u		EL 25V, 20%, RM5	0	C 274	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 194	59.22.5220	22u		EL 25V, 20%, RM5	0	C 275	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 195	59.22.6471	470u		EL 40V, 20%, RM5	0	C 276	59.22.6471	470u		EL 40V, 20%, RM5
0	C 196	59.60.2257	220p		CER 50V, 5%, COG, 0603	0	C 278	59.60.3337	100n		CER 50V, 10%, X7R, 0805
0	C 197	59.60.2373	1n0		CER 50V, 5%, COG, 0805	0	C 279	59.60.2257	220p		CER 50V, 5%, COG, 0603
0	C 198	59.22.4221	220u		EL 16V, 20%, RM5	0	C 280	59.22.8109	1u		EL 50V, 20%, RM5
0	C 199	59.22.4221	220u		EL 16V, 20%, RM5	0	C 281	59.22.6100	10u		EL 35V, 20%, RM5
0	C 200	59.22.4221	220u		EL 16V, 20%, RM5	0	C 282	59.22.6100	10u		EL 35V, 20%, RM5
0	C 201	not used	100n		CER 50V, 10%, X7R, 0805	0	C 283	59.22.6100	10u		EL 35V, 20%, RM5
0	C 202	59.05.2221	220p		PP, 2.5%, 630V	0	C 284	59.22.6100	10u		EL 35V, 20%, RM5
0	C 203	59.05.2221	220p		PP, 2.5%, 630V	0	C 285	59.22.4002	100uF		EL 16V, 20%, RM5
0	C 204	59.05.2102	1n		PP, 2.5%, 630V	0	D 1	not used	4448		D LL 4448 SOD 80
0	C 205	59.05.2102	1n		PP, 2.5%, 630V	0	D 2	not used	4448		D LL 4448 SOD 80
0	C 206	59.22.5220	22u		EL 25V, 20%, RM5	0	D 3	not used	4448		D LL 4448 SOD 80
0	C 207	59.22.5220	22u		EL 25V, 20%, RM5	0	D 4	50.60.8001	4448		D LL 4448 SOD 80
0	C 208	59.05.2221	220p		PP, 2.5%, 630V	0	D 5	50.60.8001	4448		D LL 4448 SOD 80
0	C 209	59.05.2221	220p		PP, 2.5%, 630V	0	D 6	50.60.8001	4448		D LL 4448 SOD 80
0	C 210	59.05.2102	1n		PP, 2.5%, 630V	0	D 7	50.60.9010	5V1		5%, 0.2W, SOT 23
0	C 211	59.05.2102	1n		PP, 2.5%, 630V	0	D 8	50.60.8001	4448		D LL 4448 SOD 80
0	C 212	59.60.3331	33n		CER 50V, 10%, X7R, 0805	0	D 9	50.60.8001	4448		D LL 4448 SOD 80
0	C 213	not used	100n		CER 50V, 10%, X7R, 0805	0	D 10	50.04.0526	MBR360		D MBR 360, SB 360, 31 DQ 06,
0	C 214	59.60.3315	1n5		CER 50V, 10%, X7R, 0805	0	D 11	50.04.0526	MBR360		D MBR 360, SB 360, 31 DQ 06,
0	C 215	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 12	50.60.9010	5V1		5%, 0.2W, SOT 23
0	C 216	59.60.3315	1n5		CER 50V, 10%, X7R, 0805	0	D 13	50.60.8001	4448		D LL 4448 SOD 80
0	C 217	59.22.6100	10u		EL 35V, 20%, RM5	0	D 14	50.60.9021	15V		5%, 0.2W, SOT 23
0	C 218	not used	100n		CER 50V, 10%, X7R, 0805	0	D 15	50.60.9011	5V6		5%, 0.2W, SOT 23
0	C 219	not used	100n		CER 50V, 10%, X7R, 0805	0	D 16	50.04.0519	1N5822		3A, Schottky
0	C 220	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 17	50.04.0105	1N4004		D 1 N 4004 ... 1 N 4007
0	C 221	59.99.1713	4m7		C 4700 U , , 25 V , EL	0	D 18	50.60.9011	5V6		5%, 0.2W, SOT 23
0	C 222	59.22.4002	100uF		EL 16V, 20%, RM5	0	D 19	50.60.8101	BAS85		D BAS 85 SOD 80
0	C 223	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 20	50.60.9010	5V1		5%, 0.2W, SOT 23
0	C 224	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 21	50.60.8001	4448		D LL 4448 SOD 80
0	C 225	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 22	50.60.8001	4448		D LL 4448 SOD 80
0	C 226	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 23	50.04.0519	1N5822		3A, Schottky
0	C 227	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 24	50.04.0105	1N4004		D 1 N 4004 ... 1 N 4007
0	C 228	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 25	50.60.9013	6V8		5%, 0.2W, SOT 23
0	C 229	59.60.2257	220p		CER 50V, 5%, COG, 0603	0	D 26	50.04.0105	1N4004		D 1 N 4004 ... 1 N 4007
0	C 230	59.60.3331	33n		CER 50V, 10%, X7R, 0805	0	D 27	50.04.0507	1N5402		D 1 N 5402,
0	C 231	59.22.6100	10u		EL 35V, 20%, RM5	0	D 28	50.60.8001	4448		D LL 4448 SOD 80
0	C 232	59.60.2235	27p		CER 50V, 5%, COG, 0603	0	D 29	50.60.9010	5V1		5%, 0.2W, SOT 23
0	C 233	59.60.2235	27p		CER 50V, 5%, COG, 0603	0	D 30	50.60.8001	4448		D LL 4448 SOD 80
0	C 234	not used	100n		CER 50V, 10%, X7R, 0805	0	D 31	50.04.0519	1N5822		3A, Schottky
0	C 235	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 32	50.60.8001	4448		D LL 4448 SOD 80
0	C 236	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	D 33	50.60.8001	4448		D LL 4448 SOD 80
0	C 237	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	IC 1	not used	9637		Dual diff Line Receiver
0	C 238	59.60.3325	10n		CER 50V, 10%, X7R, 0805	0	IC 2	not used	74HC423		74 HC 423
0	C 239	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	IC 3	not used	74HCT9046		IC .. 74 HCT 9046 . ,A
0	C 240	59.22.3470	47u		EL 10V, 20%, RM5	0	IC 4	not used	LM358		IC LM 358 D ,A
0	C 241	59.22.6100	10u		EL 35V, 20%, RM5	0	IC 5	not used	74HC163		74 HC 163
0	C 242	59.22.4221	220u		EL 16V, 20%, RM5						
0	C 243	59.22.4221	220u		EL 16V, 20%, RM5						



Main Board I.662.030.20

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 129	57.11.3150	15R		MF, 1%, 0207	0	R 210	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 130	not used	27R		MF, 1%, 0204, E24	0	R 211	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 131	not used	10K		MF, 1%, 0204, E24	0	R 212	57.60.1133	13K		MF, 1%, 0204, E24
0	R 132	57.60.1680	68R		MF, 1%, 0204, E24	0	R 213	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 133	not used	68R		MF, 1%, 0204, E24	0	R 214	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 134	57.60.1680	68R		MF, 1%, 0204, E24	0	R 215	57.60.1133	13K		MF, 1%, 0204, E24
0	R 135	57.60.1133	13K		MF, 1%, 0204, E24	0	R 216	57.60.1123	12K		MF, 1%, 0204, E24
0	R 136	57.60.1133	13K		MF, 1%, 0204, E24	0	R 217	57.60.1153	15K		MF, 1%, 0204, E24
0	R 137	57.60.1332	3K3		MF, 1%, 0204, E24	0	R 218	57.60.1473	47K		MF, 1%, 0204, E24
0	R 138	57.60.1332	3K3		MF, 1%, 0204, E24	0	R 219	57.60.1000	0R0		MF, 0204
0	R 139	not used	13K		MF, 1%, 0204, E24	0	R 220	not used	27R		MF, 1%, 0204, E24
0	R 140	57.60.1133	13K		MF, 1%, 0204, E24	0	R 221	not used	27R		MF, 1%, 0204, E24
0	R 141	57.60.1101	100R		MF, 1%, 0204, E24	0	R 222	not used	27R		MF, 1%, 0204, E24
0	R 142	not used	27R		MF, 1%, 0204, E24	0	R 223	57.60.1000	0R0		MF, 0204
0	R 143	not used	27R		MF, 1%, 0204, E24	0	R 224	57.60.1100	10R		MF, 1%, 0204, E24
0	R 144	not used	10K		MF, 1%, 0204, E24	0	R 225	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 145	not used	10K		MF, 1%, 0204, E24	0	R 226	57.60.1222	2K2		MF, 1%, 0204, E24
0	R 146	57.60.1470	47R		MF, 1%, 0204, E24	0	R 227	57.60.1222	2K2		MF, 1%, 0204, E24
0	R 147	not used	47R		MF, 1%, 0204, E24	0	R 228	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 148	57.60.1470	47R		MF, 1%, 0204, E24	0	R 229	57.11.3102	1k0		MF, 1%, 0207
0	R 149	not used	0R0		MF, 0204	0	R 230	57.11.3102	1k0		MF, 1%, 0207
0	R 150	57.60.1000	0R0		MF, 0204	0	R 231	57.60.1103	10K		MF, 1%, 0204, E24
0	R 151	not used	0R0		MF, 0204	0	R 232	57.60.1473	47K		MF, 1%, 0204, E24
0	R 152	57.60.1133	13K		MF, 1%, 0204, E24	0	R 233	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 153	57.60.1332	3K3		MF, 1%, 0204, E24	0	R 234	57.60.1104	100K		MF, 1%, 0204, E24
0	R 154	57.60.1133	13K		MF, 1%, 0204, E24	0	R 235	57.60.1102	1K		MF, 1%, 0204, E24
0	R 155	not used	13K		MF, 1%, 0204, E24	0	R 236	57.60.1470	47R		MF, 1%, 0204, E24
0	R 156	57.60.1332	3K3		MF, 1%, 0204, E24	0	R 237	57.60.1470	47R		MF, 1%, 0204, E24
0	R 157	57.60.1133	13K		MF, 1%, 0204, E24	0	R 238	57.60.1470	47R		MF, 1%, 0204, E24
0	R 158	57.60.1151	150R		MF, 1%, 0204, E24	0	R 239	57.60.1470	47R		MF, 1%, 0204, E24
0	R 159	57.60.1151	150R		MF, 1%, 0204, E24	0	R 240	57.60.1470	47R		MF, 1%, 0204, E24
0	R 160	57.60.1151	150R		MF, 1%, 0204, E24	0	R 241	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 161	57.60.1151	150R		MF, 1%, 0204, E24	0	R 242	57.60.1470	47R		MF, 1%, 0204, E24
0	R 162	57.60.1123	12K		MF, 1%, 0204, E24	0	R 243	57.60.1473	47K		MF, 1%, 0204, E24
0	R 163	57.60.1473	47K		MF, 1%, 0204, E24	0	R 244	57.60.1103	10K		MF, 1%, 0204, E24
0	R 164	57.60.1153	15K		MF, 1%, 0204, E24	0	R 245	57.60.1470	47R		MF, 1%, 0204, E24
0	R 165	57.60.1102	1K		MF, 1%, 0204, E24	0	R 246	57.60.1100	10R		MF, 1%, 0204, E24
0	R 166	57.60.1472	4K7		MF, 1%, 0204, E24	0	R 247	57.60.1101	100R		MF, 1%, 0204, E24
0	R 167	57.60.1104	100K		MF, 1%, 0204, E24	0	R 248	57.60.1182	1K8		MF, 1%, 0204, E24
0	R 168	57.60.1151	150R		MF, 1%, 0204, E24	0	R 249	57.60.1182	1K8		MF, 1%, 0204, E24
0	R 169	57.60.1680	68R		MF, 1%, 0204, E24	0	R 250	57.60.1101	100R		MF, 1%, 0204, E24
0	R 170	57.60.1680	68R		MF, 1%, 0204, E24	0	R 251	57.60.1153	15K		MF, 1%, 0204, E24
0	R 171	not used	0R0		MF, 0204	0	R 252	57.60.1123	12K		MF, 1%, 0204, E24
0	R 172	not used	0R0		MF, 0204	0	R 253	57.60.1103	10K		MF, 1%, 0204, E24
0	R 173	57.60.1000	0R0		MF, 0204	0	R 254	57.60.1221	220R		MF, 1%, 0204, E24
0	R 174	57.60.1103	10K		MF, 1%, 0204, E24	0	R 255	57.60.1271	270R		MF, 1%, 0204, E24
0	R 175	not used	1K		MF, 1%, 0204, E24	0	R 256	57.60.1471	470R		MF, 1%, 0204, E24
0	R 176	not used	68R		MF, 1%, 0204, E24	0	R 257	not used	10R		MF, 1%, 0207
0	R 177	57.60.1100	10R		MF, 1%, 0204, E24	0	R 258	not used	10R		MF, 1%, 0207
0	R 178	57.60.1100	10R		MF, 1%, 0204, E24	0	R 259	57.60.1470	47R		MF, 1%, 0204, E24
0	R 179	57.60.1332	3K3		MF, 1%, 0204, E24	0	R 260	57.60.1470	47R		MF, 1%, 0204, E24
0	R 180	57.60.1333	33K		MF, 1%, 0204, E24	0	R 261	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 181	57.60.1472	4K7		MF, 1%, 0204, E24	0	R 262	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 182	57.60.1105	1M		MF, 1%, 0204, E24	0	R 263	57.60.1000	0R0		MF, 0204
0	R 183	57.60.1221	220R		MF, 1%, 0204, E24	0	R 264	not used	3K3		MF, 1%, 0204, E24
0	R 184	57.11.3000	0R0		MF, 0207	0	R 265	57.60.1473	47K		MF, 1%, 0204, E24
0	R 185	not used	27R		MF, 1%, 0204, E24	0	R 266	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 186	not used	27R		MF, 1%, 0204, E24	0	R 267	57.60.1182	1K8		MF, 1%, 0204, E24
0	R 187	not used	27R		MF, 1%, 0204, E24	0	R 268	57.60.1221	220R		MF, 1%, 0204, E24
0	R 188	57.60.1100	10R		MF, 1%, 0204, E24	0	R 269	57.60.1221	220R		MF, 1%, 0204, E24
0	R 189	57.60.1133	13K		MF, 1%, 0204, E24	0	R 270	57.60.1221	220R		MF, 1%, 0204, E24
0	R 190	57.60.1133	13K		MF, 1%, 0204, E24	0	R 271	57.60.1221	220R		MF, 1%, 0204, E24
0	R 191	57.60.1100	10R		MF, 1%, 0204, E24	0	R 272	57.60.1221	220R		MF, 1%, 0204, E24
0	R 192	57.60.1133	13K		MF, 1%, 0204, E24	0	R 273	57.60.1221	220R		MF, 1%, 0204, E24
0	R 193	57.60.1133	13K		MF, 1%, 0204, E24	0	R 274	57.60.1221	220R		MF, 1%, 0204, E24
0	R 194	57.60.1102	1K		MF, 1%, 0204, E24	0	R 275	57.60.1221	220R		MF, 1%, 0204, E24
0	R 195	57.60.1101	100R		MF, 1%, 0204, E24	0	R 276	57.60.1221	220R		MF, 1%, 0204, E24
0	R 196	57.60.1471	470R		MF, 1%, 0204, E24	0	R 277	57.60.1221	220R		MF, 1%, 0204, E24
0	R 197	57.60.1102	1K		MF, 1%, 0204, E24	0	R 278	57.60.1221	220R		MF, 1%, 0204, E24
0	R 198	57.60.1472	4K7		MF, 1%, 0204, E24	0	R 279	57.60.1221	220R		MF, 1%, 0204, E24
0	R 199	57.60.1471	470R		MF, 1%, 0204, E24	0	R 280	57.60.1473	47K		MF, 1%, 0204, E24
0	R 200	57.60.1151	150R		MF, 1%, 0204, E24	0	R 281	57.60.1103	10K		MF, 1%, 0204, E24
0	R 201	not used	10K		MF, 1%, 0204, E24	0	R 282	not used	4K3		MF, 1%, 0204, E24
0	R 202	not used	1K		MF, 1%, 0204, E24	0	R 283	57.60.1471	470R		MF, 1%, 0204, E24
0	R 203	not used	27R		MF, 1%, 0204, E24	0	R 284	57.60.1103	10K		MF, 1%, 0204, E24
0	R 204	not used	27R		MF, 1%, 0204, E24	0	R 285	57.60.1471	470R		MF, 1%, 0204, E24
0	R 205	not used	27R		MF, 1%, 0204, E24	0	R 286	57.60.1220	22R		MF, 1%, 0204, E24
0	R 206	not used	27R		MF, 1%, 0204, E24	0	R 287	57.60.1220	22R		MF, 1%, 0204, E24
0	R 207	57.60.1000	0R0		MF, 0204	0	R 288	57.60.1220	22R		MF, 1%, 0204, E24
0	R 208	57.60.1133	13K		MF, 1%, 0204, E24	0	R 289	57.60.1220	22R		MF, 1%, 0204, E24
0	R 209	57.60.1133	13K		MF, 1%, 0204, E24	0	R 290	57.60.1101	100R		MF, 1%, 0204, E24

Main Board I.662.030.20

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	Q 10	50.60.1001		BC857B	Q BC 857 B, SOT 23	0	R 49	not used	100R		MF, 1%, 0204, E24
0	Q 11	50.60.0050		BC817-25	Q BC 817-25, NPN SOT 23	0	R 50	not used	47R		MF, 1%, 0204, E24
0	Q 12	50.99.0106		BT138	Q BT 138 - 500 TRIAC	0	R 51	not used	47R		MF, 1%, 0204, E24
0	Q 13	50.60.0001		BC847B	Q BC 847 B, SOT 23	0	R 52	not used	47R		MF, 1%, 0204, E24
0	Q 14	50.60.0001		BC847B	Q BC 847 B, SOT 23	0	R 53	not used	47R		MF, 1%, 0204, E24
0	Q 15	50.99.0106		BT138	Q BT 138 - 500 TRIAC	0	R 54	not used	47K		MF, 1%, 0204, E24
0	Q 16	50.03.0523		ZTX651	ZTX 651	0	R 55	not used	47R		MF, 1%, 0204, E24
0	Q 17	50.03.0523		ZTX651	ZTX 651	0	R 56	not used	1K		MF, 1%, 0204, E24
0	Q 18	50.03.0523		ZTX651	ZTX 651	0	R 57	not used	47R		MF, 1%, 0204, E24
0	Q 19	50.03.0523		ZTX651	ZTX 651	0	R 58	not used	47R		MF, 1%, 0204, E24
0	Q 20	50.03.0352		ZTX751S	ZTX 751 S	0	R 59	not used	47R		MF, 1%, 0204, E24
0	Q 21	50.03.0352		ZTX751S	ZTX 751 S	0	R 60	not used	1K		MF, 1%, 0204, E24
0	Q 22	50.03.0352		ZTX751S	ZTX 751 S	0	R 61	57.60.1272	2K7		MF, 1%, 0204, E24
0	Q 23	50.03.0352		ZTX751S	ZTX 751 S	0	R 62	57.60.1272	2K7		MF, 1%, 0204, E24
0	Q 24	50.03.0352		ZTX751S	ZTX 751 S	0	R 63	57.60.1272	2K7		MF, 1%, 0204, E24
0	Q 25	50.03.0352		ZTX751S	ZTX 751 S	0	R 64	57.60.1272	2K7		MF, 1%, 0204, E24
0	Q 26	50.03.0352		ZTX751S	ZTX 751 S	0	R 65	not used	1M		MF, 1%, 0204, E24
0	Q 27	50.03.0352		ZTX751S	ZTX 751 S	0	R 66	57.60.1105	1M		MF, 1%, 0204, E24
0	Q 28	50.60.0050		BC817-25	Q BC 817-25, NPN SOT 23	0	R 67	not used	33K		MF, 1%, 0204, E24
0	Q 29	50.03.0523		ZTX651	ZTX 651	0	R 68	not used	33K		MF, 1%, 0204, E24
0	Q 30	50.03.0523		ZTX651	ZTX 651	0	R 69	57.60.1103	10K		MF, 1%, 0204, E24
0	Q 31	50.03.0523		ZTX651	ZTX 651	0	R 70	57.60.1683	68K		MF, 1%, 0204, E24
0	Q 32	50.03.0523		ZTX651	ZTX 651	0	R 71	57.60.1103	10K		MF, 1%, 0204, E24
0	Q 33	50.03.0352		ZTX751S	ZTX 751 S	0	R 72	57.60.1683	68K		MF, 1%, 0204, E24
0	Q 34	50.03.0352		ZTX751S	ZTX 751 S	0	R 73	57.60.1103	10K		MF, 1%, 0204, E24
0	Q 35	50.03.0352		ZTX751S	ZTX 751 S	0	R 74	57.60.1223	22K		MF, 1%, 0204, E24
0	Q 36	50.03.0352		ZTX751S	ZTX 751 S	0	R 75	57.60.1223	22K		MF, 1%, 0204, E24
0	Q 37	50.03.0352		ZTX751S	ZTX 751 S	0	R 76	57.60.1103	10K		MF, 1%, 0204, E24
0	Q 38	50.03.0352		ZTX751S	ZTX 751 S	0	R 77	not used	10R		MF, 1%, 0204, E24
0	Q 39	50.03.0352		ZTX751S	ZTX 751 S	0	R 78	not used	10R		MF, 1%, 0204, E24
0	Q 40	50.03.0352		ZTX751S	ZTX 751 S	0	R 79	not used	0R0		MF, 0204
0	R 1	not used	82R		MF, 1%, 0204, E24	0	R 80	not used	0R0		MF, 0204
0	R 2	not used	47R		MF, 1%, 0204, E24	0	R 81	57.60.1332	3K3		MF, 1%, 0204, E24
0	R 3	not used	0R0		MF, 0204	0	R 82	not used	0R0		MF, 0204
0	R 4	not used	100R		MF, 1%, 0204, E24	0	R 83	not used	0R0		MF, 0204
0	R 5	not used	1K		MF, 1%, 0204, E24	0	R 84	not used	3K3		MF, 1%, 0204, E24
0	R 6	not used	47K		MF, 1%, 0204, E24	0	R 85	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 7	not used	2K7		MF, 1%, 0204, E24	0	R 86	57.60.1432	4K3		MF, 1%, 0204, E24
0	R 8	57.60.1152	1K5		MF, 1%, 0204, E24	0	R 87	57.60.1562	5K6		MF, 1%, 0204, E24
0	R 9	57.60.1104	100K		MF, 1%, 0204, E24	0	R 88	57.60.1103	10K		MF, 1%, 0204, E24
0	R 10	57.60.1104	100K		MF, 1%, 0204, E24	0	R 89	57.60.1472	4K7		MF, 1%, 0204, E24
0	R 11	57.60.1152	1K5		MF, 1%, 0204, E24	0	R 90	57.60.1432	4K3		MF, 1%, 0204, E24
0	R 12	57.60.1104	100K		MF, 1%, 0204, E24	0	R 91	57.60.1562	5K6		MF, 1%, 0204, E24
0	R 13	not used	100R		MF, 1%, 0204, E24	0	R 92	57.60.1103	10K		MF, 1%, 0204, E24
0	R 14	not used	1K		MF, 1%, 0204, E24	0	R 93	57.60.1000	0R0		MF, 0204
0	R 15	not used	100K		MF, 1%, 0204, E24	0	R 94	57.60.1223	22K		MF, 1%, 0204, E24
0	R 16	not used	4K7		MF, 1%, 0204, E24	0	R 95	not used	3K3		MF, 1%, 0204, E24
0	R 17	57.60.1472	4K7		MF, 1%, 0204, E24	0	R 96	not used	0R0		MF, 0204
0	R 18	57.60.1473	47K		MF, 1%, 0204, E24	0	R 97	not used	22K		MF, 1%, 0204, E24
0	R 19	57.60.1181	180R		MF, 1%, 0204, E24	0	R 98	not used	3K3		MF, 1%, 0204, E24
0	R 20	57.60.1222	2K2		MF, 1%, 0204, E24	0	R 99	57.60.1103	10K		MF, 1%, 0204, E24
0	R 21	57.60.1223	22K		MF, 1%, 0204, E24	0	R 100	57.60.1682	6K8		MF, 1%, 0204, E24
0	R 22	57.60.1223	22K		MF, 1%, 0204, E24	0	R 101	57.60.1682	6K8		MF, 1%, 0204, E24
0	R 23	not used	2K2		MF, 1%, 0204, E24	0	R 102	57.60.1103	10K		MF, 1%, 0204, E24
0	R 24	not used	22K		MF, 1%, 0204, E24	0	R 103	57.60.1101	100R		MF, 1%, 0204, E24
0	R 25	not used	180R		MF, 1%, 0204, E24	0	R 104	not used	470R		MF, 1%, 0204, E24
0	R 26	not used	22K		MF, 1%, 0204, E24	0	R 105	57.60.1103	10K		MF, 1%, 0204, E24
0	R 27	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 106	57.60.1272	2K7		MF, 1%, 0204, E24
0	R 28	57.60.1152	1K5		MF, 1%, 0204, E24	0	R 107	57.60.1222	2K2		MF, 1%, 0204, E24
0	R 29	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 108	57.60.1152	1K5		MF, 1%, 0204, E24
0	R 30	57.60.1152	1K5		MF, 1%, 0204, E24	0	R 109	not used	2K2		MF, 1%, 0204, E24
0	R 31	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 110	not used	1K5		MF, 1%, 0204, E24
0	R 32	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 111	57.60.1272	2K7		MF, 1%, 0204, E24
0	R 33	57.60.1104	100K		MF, 1%, 0204, E24	0	R 112	57.60.1100	10R		MF, 1%, 0204, E24
0	R 34	not used	10K		MF, 1%, 0204, E24	0	R 113	57.60.1102	1K		MF, 1%, 0204, E24
0	R 35	not used	10K		MF, 1%, 0204, E24	0	R 114	57.60.1123	12K		MF, 1%, 0204, E24
0	R 36	not used	100K		MF, 1%, 0204, E24	0	R 115	57.60.1473	47K		MF, 1%, 0204, E24
0	R 37	not used	56R		MF, 1%, 0204, E24	0	R 116	57.60.1153	15K		MF, 1%, 0204, E24
0	R 38	not used	220R		MF, 1%, 0204, E24	0	R 117	57.60.1104	100K		MF, 1%, 0204, E24
0	R 39	57.60.1473	47K		MF, 1%, 0204, E24	0	R 118	57.60.1103	10K		MF, 1%, 0204, E24
0	R 40	57.60.1272	2K7		MF, 1%, 0204, E24	0	R 119	57.60.1104	100K		MF, 1%, 0204, E24
0	R 41	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 120	not used	1M		MF, 1%, 0204, E24
0	R 42	57.60.1392	3K9		MF, 1%, 0204, E24	0	R 121	57.60.1100	10R		MF, 1%, 0204, E24
0	R 43	not used	5K6		MF, 1%, 0204, E24	0	R 122	57.60.1102	1K		MF, 1%, 0204, E24
0	R 44	not used	15K		MF, 1%, 0204, E24	0	R 123	57.60.1331	330R		MF, 1%, 0204, E24
0	R 45	not used	1K		MF, 1%, 0204, E24	0	R 124	57.60.1473	47K		MF, 1%, 0204, E24
0	R 46	not used	47K		MF, 1%, 0204, E24	0	R 125	57.60.1100	10R		MF, 1%, 0204, E24
0	R 47	not used	1K		MF, 1%, 0204, E24	0	R 126	57.60.1100	10R		MF, 1%, 0204, E24
0	R 48	not used	5K6		MF, 1%, 0204, E24	0	R 127	57.60.1512	5K1		MF, 1%, 0204, E24
						0	R 128	57.60.1103	10K		MF, 1%, 0204, E24



Main Board I.662.030.20

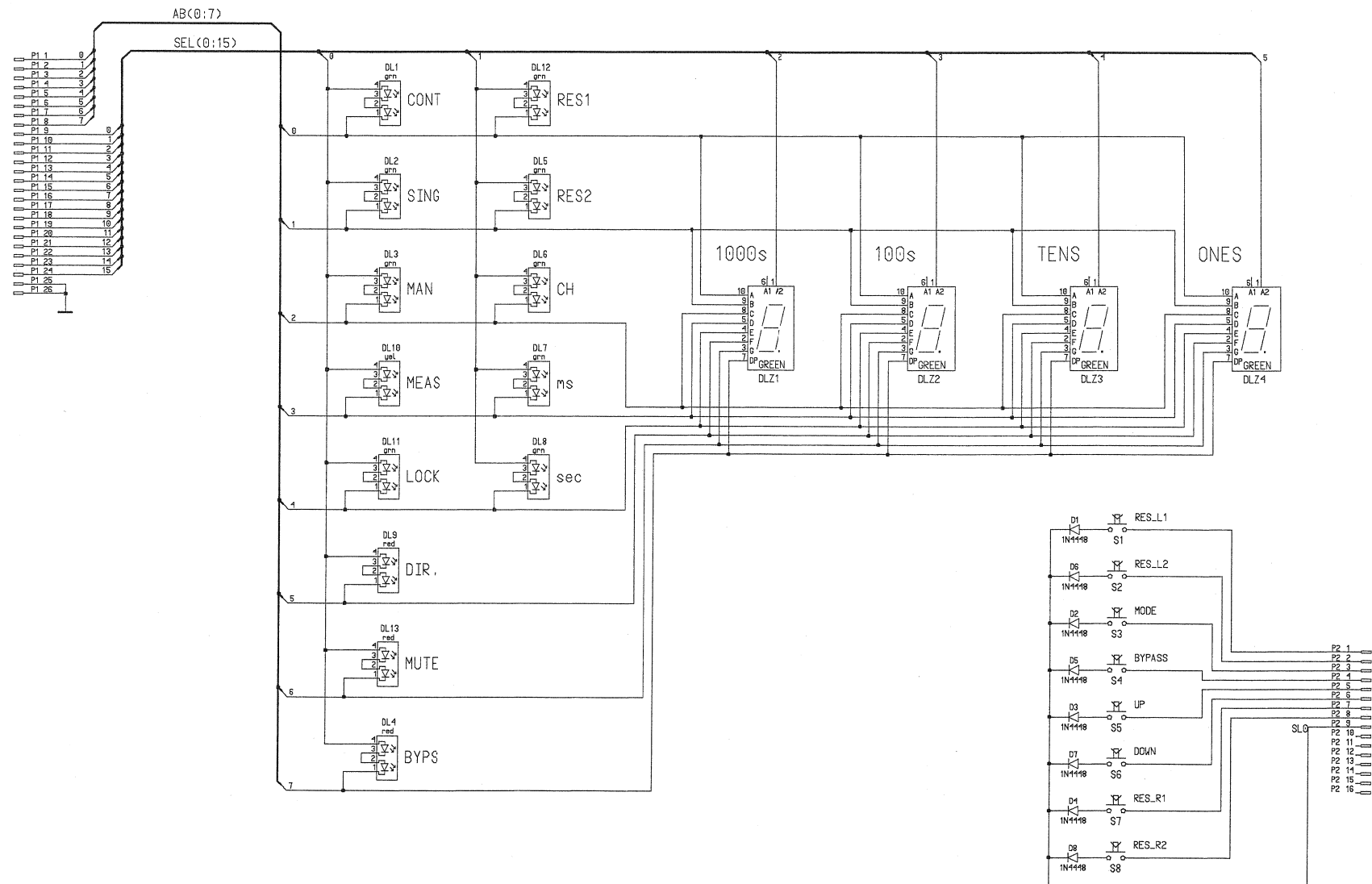
Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	IC 6	not used		74HC163	74 HC 163	0	L 6	62.01.0301		110MHz	Breitband-Drossel
0	IC 7	not used		26LS31	IC AM26 LS 31 PC,AM26 LS31 CN	0	L 7	not used		110MHz	Breitband-Drossel
0	IC 8	50.09.0117		MC33078	IC MC 33078 P	0	L 8	not used		110MHz	Breitband-Drossel
0	IC 9	50.09.0117		MC33078	IC MC 33078 P	0	L 9	1.022.651.00		250uH	STORAGE INDUCTOR 2*250UH
0	IC 10	50.62.1904		74HCU04	IC .. 74 HCU 04 ,A	0	L 10	62.03.0015		72uH	2A Toroid Chocke
0	IC 11	not used		CS8412	IC CS 8412-CP ,A	0	L 11	62.03.0015		72uH	2A Toroid Chocke
0	IC 12	not used		CS8412	IC CS 8412-CP ,A	0	L 12	62.03.0025		250uH	2A Toroid Chocke
0	IC 13	not used		74HC365	74 HC 365	0	L 13	62.03.0015		72uH	2A Toroid Chocke
0	IC 14	50.09.0124		2142	IC SSM 2142 P	0	L 15	62.03.0025		250uH	2A Toroid Chocke
0	IC 15	50.09.0106		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0	L 16	62.03.0025		250uH	2A Toroid Chocke
0	IC 16	not used		2142	IC SSM 2142 P	0	MP 1	1.662.030.11			SoundMASTER ,PCB /I\
0	IC 17	not used		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0	MP 2	43.01.0108		Label	ESE-WARNschild
0	IC 18	50.09.0117		MC33078	IC MC 33078 P	0	MP 3	1.662.030.10			NR-ETIKETTE 5 X 20
0	IC 19	50.09.0117		MC33078	IC MC 33078 P	0	MP 4	1.101.001.20		Label	TEXT-ETIK. 5*20 HARDWARE -20
0	IC 20	not used		74HCU04	IC .. 74 HCU 04 ,A	0	MP 5	21.38.0354	4 pcs	M3*6	Z - Schraube KS A2 blank
0	IC 21	not used		IC AD 1890 JN	,A	0	MP 6	1.660.030.02			Halber Potentiometer
0	IC 22	not used		CY7C128-35	IC MCM 2018 A - 35 ,A	0	MP 7	1.660.030.01			Kühblech
0	IC 23	50.09.0117		MC33078	IC MC 33078 P	0	MP 8	50.20.0305	3 pcs		TO 220 Glimmerscheibe gefettet
0	IC 24	50.61.8301		CS3310	Dig volume control ste SO 16	0	MP 9	50.20.2006	3 pcs		Montageclip zu TO 220 13MM
0	IC 25	not used		CS3310	Dig volume control ste SO 16	0	MP 10	50.03.9934			KUEHLKOERPER
0	IC 26	50.61.8301		CS3310	Dig volume control ste SO 16	0	MP 11	21.53.9354		M3*6	Z-Schraube Inbus-Ripp Zn gb ch
0	IC 27	50.10.0118		L4962	IC L 4962 E,	0	MP 12	22.01.8030		M3	6kt-Mutter 0.8d St Zn gb
0	IC 28	50.10.0109		LM337L	IC LM 337 LZ,	0	MP 13	24.16.2030			FAECHERSCHEIBE A D 3.2
0	IC 29	50.62.1074		74HC 74	74 HC 74	1	MP 14	1.010.209.27	2 pcs		MUTTERBOLZEN M 2.5*11.5
0	IC 30	50.09.0106		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	1	MP 15	21.13.0280	2 pcs		Z - SCHR. A2/A4 M 2.5 * 8
0	IC 31	50.61.8103		CS5335	A/D Converter 20bit 2ChSSOP20	0	P 1	not used		BNC	J 1 POL PRINT/WINKEL BNC
0	IC 32	50.62.1151		74HC151	74 HC 151	0	P 2	not used		BNC	J 1 POL PRINT/WINKEL BNC
0	IC 33	50.62.1163		74HC163	74 HC 163	0	P 3	not used		3p	XLR PCB Winkel
0	IC 34	50.62.1151		74HC151	74 HC 151	0	P 4	not used		3p	XLR PCB Winkel
0	IC 35	50.62.1000		74HC 00	74 HC 00	0	P 5	not used		3p	XLR PCB Winkel
0	IC 36	50.62.1163		74HC163	74 HC 163	0	P 6	not used		3p	XLR PCB Winkel
0	IC 37	50.19.0114		D/A Conv	IC CS 4329-KP,	0	P 7	54.21.2202		3p	XLR PCB Winkel
0	IC 38	50.19.0114		D/A Conv	IC CS 4329-KP,	0	P 8	not used		3p	XLR PCB Winkel
0	IC 39	50.10.0118		L4962	IC L 4962 E,	0	P 9	54.21.2203		3p	XLR PCB Winkel
0	IC 40	50.10.0106		TL431	IC TL 431 CLP,	0	P 10	54.21.2203		3p	XLR PCB Winkel
0	IC 41	50.09.0106		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0	P 11	not used		16p	PCB-Buchse gerade
0	IC 42	not used		unbekannt	unbekanntes Bauteil	0	P 12	not used		16p	PCB-Buchse gerade
0	IC 43	50.62.1595		74HC595	74 HC 595	0	P 13	not used		16p	PCB-Buchse gerade
0	IC 44	50.62.1595		74HC595	74 HC 595	0	P 14	not used		1p	Pin 0.63*0.63
0	IC 45	50.62.1595		74HC595	74 HC 595	0	P 15	not used		1p	Pin 0.63*0.63
0	IC 46	50.09.0117		MC33078	IC MC 33078 P	0	P 16	not used		1p	Pin 0.63*0.63
0	IC 47	50.62.1165		74HC165	74 HC 165	0	P 17	54.14.5520		20p	PCB-Buchse gerade
0	IC 48	50.61.8301		CS3310	Dig volume control ste SO 16	0	P 18	not used		1p	Pin 0.63*0.63
0	IC 49	50.10.0122		L4960	L 4960,	0	P 19	not used		1p	Pin 0.63*0.63
0	IC 50	50.62.1165		74HC165	74 HC 165	0	P 20	not used		1p	Pin 0.63*0.63
0	IC 51	50.62.1165		74HC165	74 HC 165	0	P 21	not used		1p	Pin 0.63*0.63
0	IC 52	50.62.1165		74HC165	74 HC 165	0	P 22	54.14.5516		16p	PCB-Buchse gerade
0	IC 53	50.62.1014		74HC 14	74 HC 14	0	P 23	not used		1p	Pin 0.63*0.63
0	IC 54	50.62.3151		74HCT151	.. 74 HCT 151 .	0	P 24	not used		1p	Pin 0.63*0.63
0	IC 55	50.62.1138		74HC138	74 HC 138	0	P 25	not used		1p	Pin 0.63*0.63
0	IC 56	50.16.0311		89C52	MicroController 24MHz	0	P 26	not used		1p	Pin 0.63*0.63
0	IC 57	50.11.0157		TL7705B	IC TL 7705 BCP,	0	P 27	not used		1p	Pin 0.63*0.63
0	IC 58	50.10.0106		TL431	IC TL 431 CLP,	0	P 28	not used		1p	Pin 0.63*0.63
0	IC 59	not used		74HC573	74 HC 573	0	P 29	not used		1p	Pin 0.63*0.63
0	IC 60	50.10.0122		L4960	L 4960,	0	P 30	not used		1p	Pin 0.63*0.63
0	IC 61	50.10.0106		TL431	IC TL 431 CLP,	0	P 31	not used		1p	Pin 0.63*0.63
0	IC 62	50.62.1014		74HC 14	74 HC 14	0	P 32	54.11.2014		32p	EU-BK 2*16p
0	IC 63	50.63.1503		32K*8	SRAM, CMOS, 100ns	0	P 33	54.01.0020		1p	Pin 0.63*0.63
0	IC 64	50.62.1573		74HC573	74 HC 573	0	P 34	54.01.0020		1p	Pin 0.63*0.63
0	IC 66	50.62.1154		74HC154	74 HC 154	0	P 35	54.01.0020		1p	Pin 0.63*0.63
0	IC 67	50.09.0106		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0	P 36	54.01.0020		1p	Pin 0.63*0.63
0	IC 68	50.09.0106		5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0	P 37	54.11.2014		32p	EU-BK 2*16p
0	IC 69	not used		29F040B	Flash Memory 512K*8	0	P 38	not used		10p	PCB-Buchse gerade
0	IC 70	1.662.031.20		SW 662 EchoCancellor	SW 662 EchoCancellor	0	P 39	not used		16p	P STECKER 16 P , AU, GRADE
0	IC 71	1.662.032.20		29F010, 50631303	SW 662 "ADRIAN"	0	P 40	54.99.0213		4P	El-Stecker, gerade
0	IC 72	50.61.8101		68HC68	A/D Converter 10bit 8Ch SO 20	0	P 41	54.14.2003		28p	1/20" Au, gerade, ohne Verrieg
0	IC 73	50.62.1138		74HC138	74 HC 138	0	P 42	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	IC 74	50.16.0703		8279	IC TMP 82 C 79 P-2	0	P 43	54.02.0320		1p	Flatpin, 2.8*0.8mm
0	J 1	54.14.5516		16p	PCB-Buchse gerade	0	Q 1	not used		BC817-25	Q BC 817-25, NPN SOT 23
0	K 1	not used		2u	5V 125V 2A Ag/Au	0	Q 2	50.60.0050		BC817-25	Q BC 817-25, NPN SOT 23
0	K 2	56.04.0198		2u	5V 125V 2A Ag/Au	0	Q 3	50.60.0050		BC817-25	Q BC 817-25, NPN SOT 23
0	K 3	56.04.0198		2u	5V 125V 2A Ag/Au	0	Q 4	50.60.0001		BC847B	Q BC 847 B, SOT 23
0	K 4	not used		2u	5V 125V 2A Ag/Au	0	Q 5	50.60.0001		BC847B	Q BC 847 B, SOT 23
0	K 5	56.04.0198		2u	5V 125V 2A Ag/Au	0	Q 6	50.60.0001		BC847B	Q BC 847 B, SOT 23
0	L 5	62.01.0301		110MHz	Breitband-Drossel	0	Q 7	50.60.0001		BC847B	Q BC 847 B, SOT 23
						0	Q 8	50.60.1001		BC857B	Q BC 857 B, SOT 23
						0	Q 9	50.99.0106		BT138	Q BT 138 - 500 TRIAC



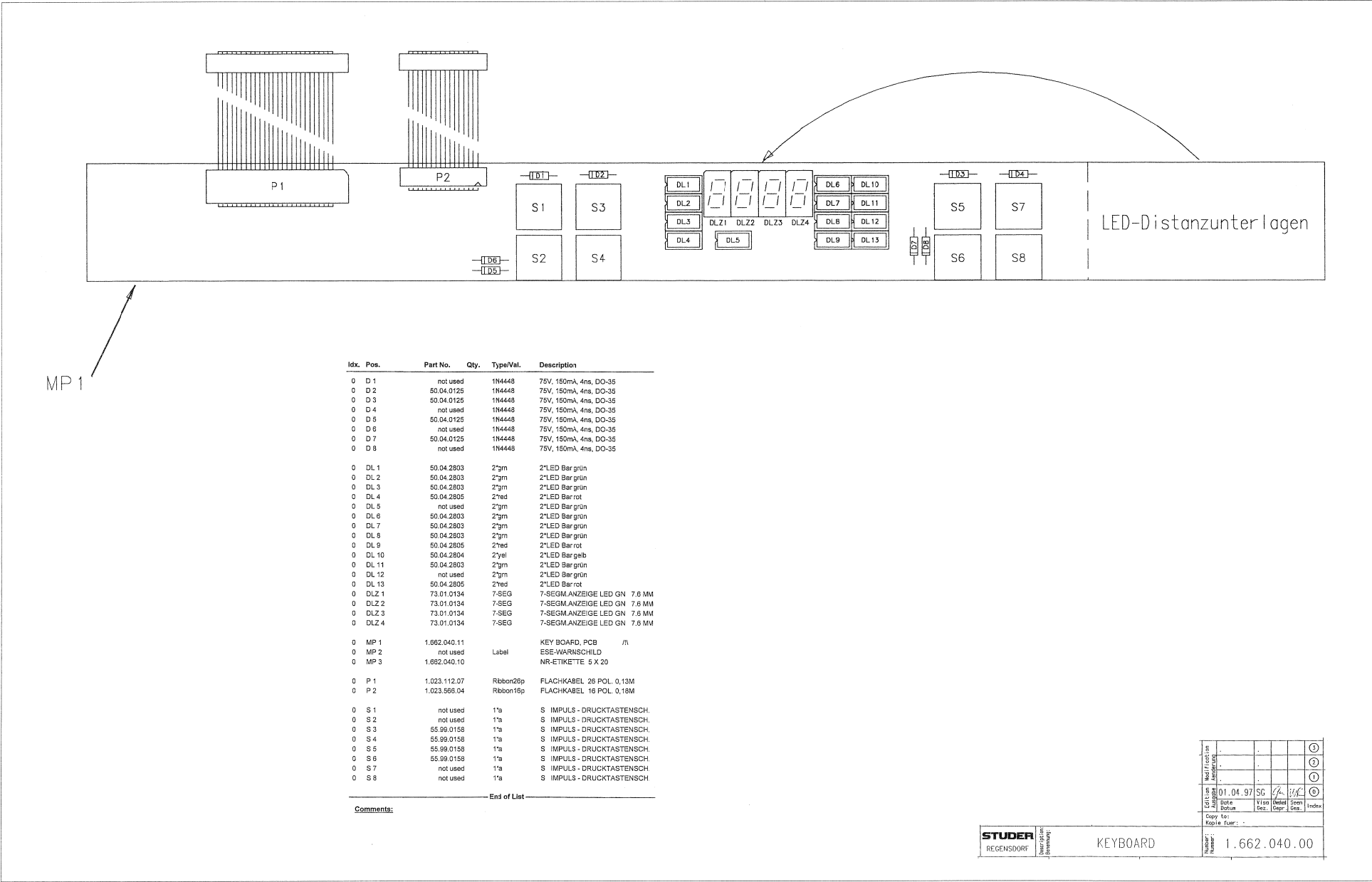
Main Board I.662.030.20

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 299	not used	3K6		MF, 1%, 0204, E24	0	TP 1	54.02.0320	1p		Flatpin, 2.8*0.8mm
0	R 300	57.60.1220	22R		MF, 1%, 0204, E24	0	TP 2	54.02.0320	1p		Flatpin, 2.8*0.8mm
0	R 301	57.60.1220	22R		MF, 1%, 0204, E24	0	TP 3	not used	1p		Flatpin, 2.8*0.8mm
0	R 302	57.60.1220	22R		MF, 1%, 0204, E24	0	TP 4	not used	1p		Flatpin, 2.8*0.8mm
0	R 303	57.60.1220	22R		MF, 1%, 0204, E24	0	TP 5	54.02.0320	1p		Flatpin, 2.8*0.8mm
0	R 304	57.60.1103	10K		MF, 1%, 0204, E24	0	TP 6	54.02.0320	1p		Flatpin, 2.8*0.8mm
0	R 305	57.60.1101	100R		MF, 1%, 0204, E24	0	XIC 1	not used	8p		DIL 0.3", lot, gerade
0	R 306	57.60.1101	100R		MF, 1%, 0204, E24	0	XIC 11	not used	28p		DIL 0.6", lot, gerade
0	R 307	57.60.1470	47R		MF, 1%, 0204, E24	0	XIC 12	not used	28p		DIL 0.6", lot, gerade
0	R 308	57.60.1103	10K		MF, 1%, 0204, E24	0	XIC 14	53.03.0166	8p		DIL 0.3", lot, gerade
0	R 309	57.60.1470	47R		MF, 1%, 0204, E24	0	XIC 16	not used	8p		DIL 0.3", lot, gerade
0	R 310	57.60.1470	47R		MF, 1%, 0204, E24	0	XIC 21	not used	28p		DIL 0.6", lot, gerade
0	R 311	57.60.1103	10K		MF, 1%, 0204, E24	0	XIC 25	not used	PLCC44p		PLCC-Socket 44p
0	R 312	57.60.1470	47R		MF, 1%, 0204, E24	0	XIC 56	53.03.0172	40p		DIL 0.6", lot, gerade
0	R 313	57.60.1221	220R		MF, 1%, 0204, E24	0	XIC 69	not used	PLCC32p		PLCC-Socket 32p
0	R 314	57.60.1221	220R		MF, 1%, 0204, E24	0	XIC 70	53.03.2232	PLCC32p		PLCC-Socket 32p
0	R 315	57.60.1221	220R		MF, 1%, 0204, E24	0	XIC 71	53.03.2244	PLCC44p		PLCC-Socket 44p
0	R 316	57.60.1221	220R		MF, 1%, 0204, E24						
0	R 317	57.60.1221	220R		MF, 1%, 0204, E24	0	XT 7	1.022.400.03			ISOLATION
0	R 318	57.60.1221	220R		MF, 1%, 0204, E24	0	XT 8	1.022.400.03			ISOLATION
0	R 319	57.60.1221	220R		MF, 1%, 0204, E24						
0	R 320	57.60.1221	220R		MF, 1%, 0204, E24	0	XY 1	not used			QUARZ - ISOLIERPLATTE
0	R 321	57.60.1221	220R		MF, 1%, 0204, E24	0	XY 2	89.01.1499			QUARZ - ISOLIERPLATTE
0	R 322	57.60.1221	220R		MF, 1%, 0204, E24	0	XY 3	not used			QUARZ - ISOLIERPLATTE
0	R 323	57.60.1221	220R		MF, 1%, 0204, E24	0	XY 4	89.01.1499			QUARZ - ISOLIERPLATTE
0	R 324	57.60.1221	220R		MF, 1%, 0204, E24						
0	R 325	57.60.1100	10R		MF, 1%, 0204, E24	0	Y 1	not used	12.288MHz	12.288 000 MHz, HC 49/U	
0	R 326	57.11.3000	0R0		MF, 0207	0	Y 2	89.01.0555	4.233MHz	4.233 600 MHz, CD	
0	R 327	57.11.3000	0R0		MF, 0207	0	Y 3	not used	16.000MHz	16.000 000 MHz, HC 49/U	
						0	Y 4	89.01.1009	16.000MHz	16.000 000 MHz, HC 49/U	
0	RA 1	not used	10K lin		1*R, lin,	End of List					
0	RA 2	not used	10K lin		1*R, lin,	<u>Comments</u> (01) 11.11.97 Component added					
0	RA 3	not used	10K lin		1*R, lin,						
0	RA 4	not used	10K lin		1*R, lin,						
0	RA 5	not used	10K lin		1*R, lin,						
0	RA 6	58.20.6101	10K lin		1*R, lin,						
0	RA 7	not used	10K lin		1*R, lin,						
0	RA 8	58.20.6101	10K lin		1*R, lin,						
0	RA 11	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 12	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 13	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 14	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 15	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 16	not used	10k		10%, 0.5W, Cermet						
0	RA 17	58.05.1103	10k		10%, 0.5W, Cermet						
0	RA 18	not used	10k		10%, 0.5W, Cermet						
0	RA 20	not used	5k		Cermet, 10%, 0.5W, vertical						
0	RA 21	58.05.1501	500R		10%, 0.5W, Cermet						
0	RA 22	not used	500R		10%, 0.5W, Cermet						
0	RA 31	58.05.1102	1k		10%, 0.5W, Cermet						
0	RA 32	58.05.1102	1k		10%, 0.5W, Cermet						
0	RZ 1	57.88.4103	8*10k		2%, SIP 9						
0	RZ 2	57.88.4103	8*10k		2%, SIP 9						
0	RZ 3	not used	8*10k		2%, SIP 9						
0	RZ 4	57.88.4103	8*10k		2%, SIP 9						
0	RZ 5	57.88.4103	8*10k		2%, SIP 9						
0	RZ 6	not used	8*10k		2%, SIP 9						
0	RZ 7	not used	8*10k		2%, SIP 9						
0	RZ 8	not used	8*10k		2%, SIP 9						
0	RZ 9	57.88.4103	8*10k		2%, SIP 9						
0	RZ 10	57.88.4103	8*10k		2%, SIP 9						
0	RZ 11	57.88.4103	8*10k		2%, SIP 9						
0	RZ 13	57.88.4103	8*10k		2%, SIP 9						
0	RZ 14	57.88.4103	8*10k		2%, SIP 9						
0	RZ 15	57.88.4472	8*4k7		2%, SIP 9						
0	RZ 16	57.88.4472	8*4k7		2%, SIP 9						
0	RZ 17	57.88.4103	8*10k		2%, SIP 9						
0	S 1	55.01.0168	8*a		SZ ,8*A, DIL						
0	S 2	55.15.0138	1*A		S 1 TASTE, 1*A,IMPULS,1.0 N						
0	T 1	not used	1:1.4		OUTPUT TRAF0 AES/EBU						
0	T 2	not used	1:1.4		OUTPUT TRAF0 AES/EBU						
0	T 3	not used	1:1.4		OUTPUT TRAF0 AES/EBU						
0	T 4	not used	1:1.4		OUTPUT TRAF0 AES/EBU						
0	T 5	not used			Line Output Trafo 6 dB						
0	T 6	not used			Line Output Trafo 6 dB						
0	T 7	1.022.451.00	1:0.62		EINGANGSTRAFO 1 : 0,62						
0	T 8	1.022.451.00	1:0.62		EINGANGSTRAFO 1 : 0,62						

Keyboard 1.662.040.00

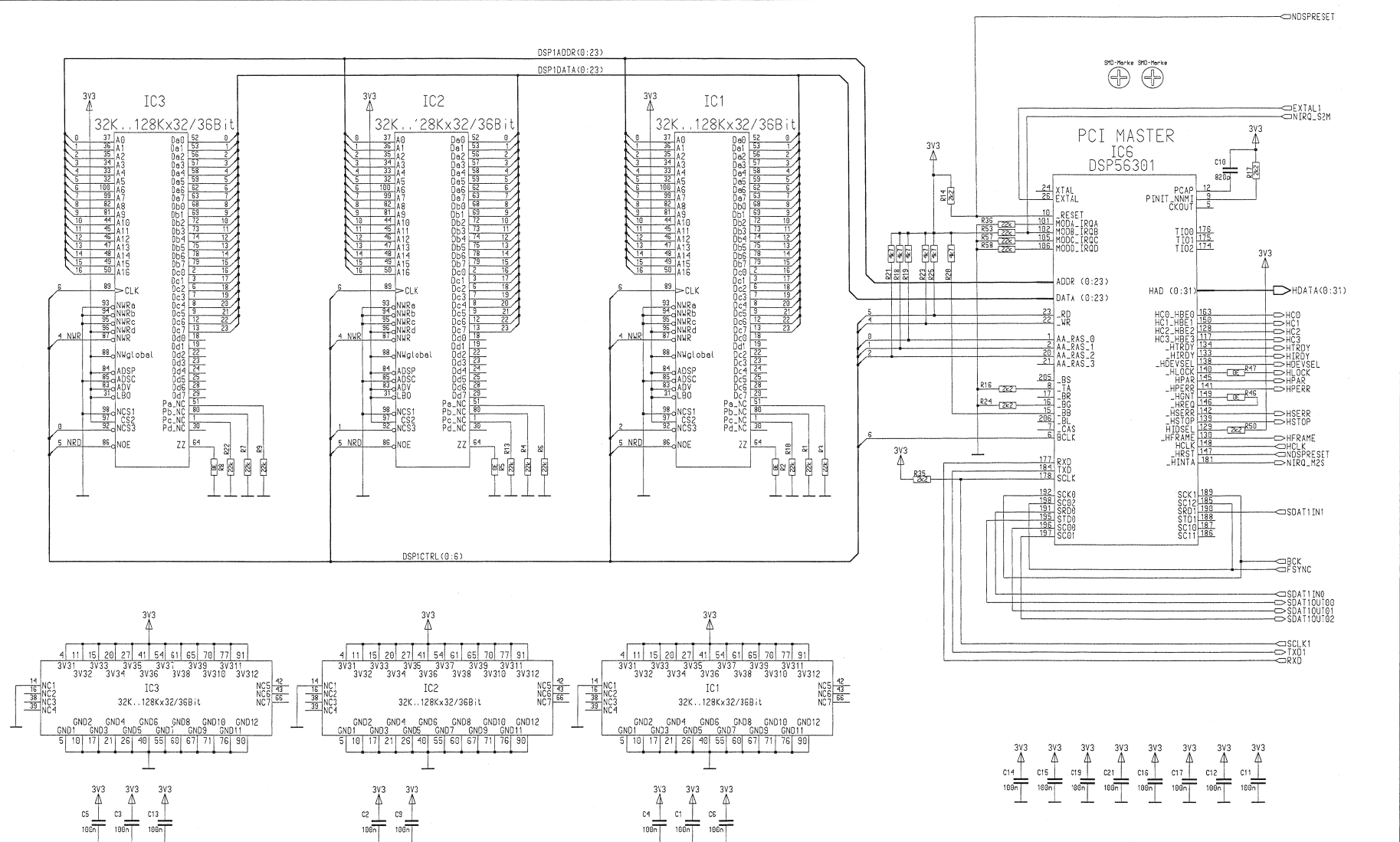


Keyboard 1.662.040.00



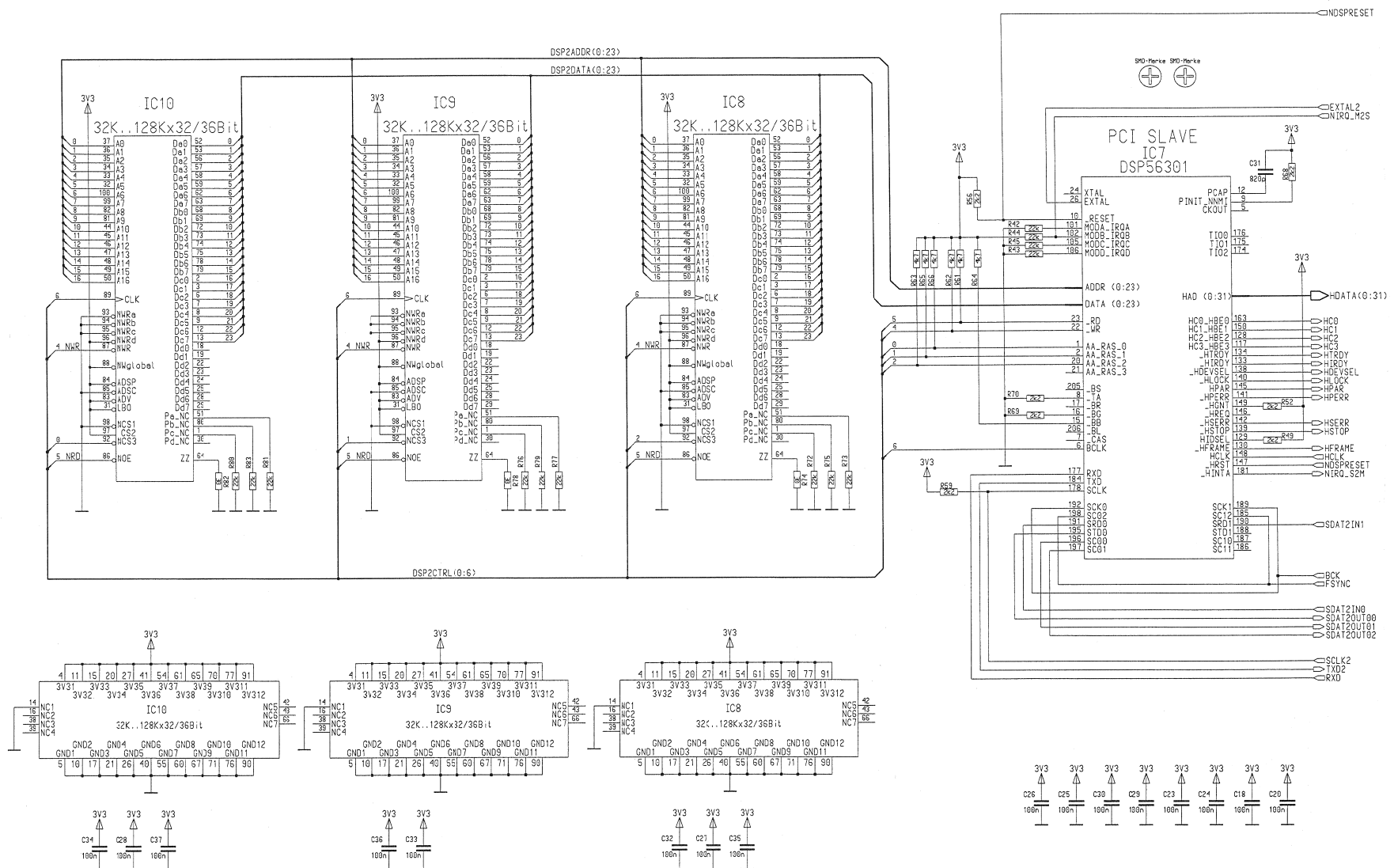


DSP Board 1.662.045.00



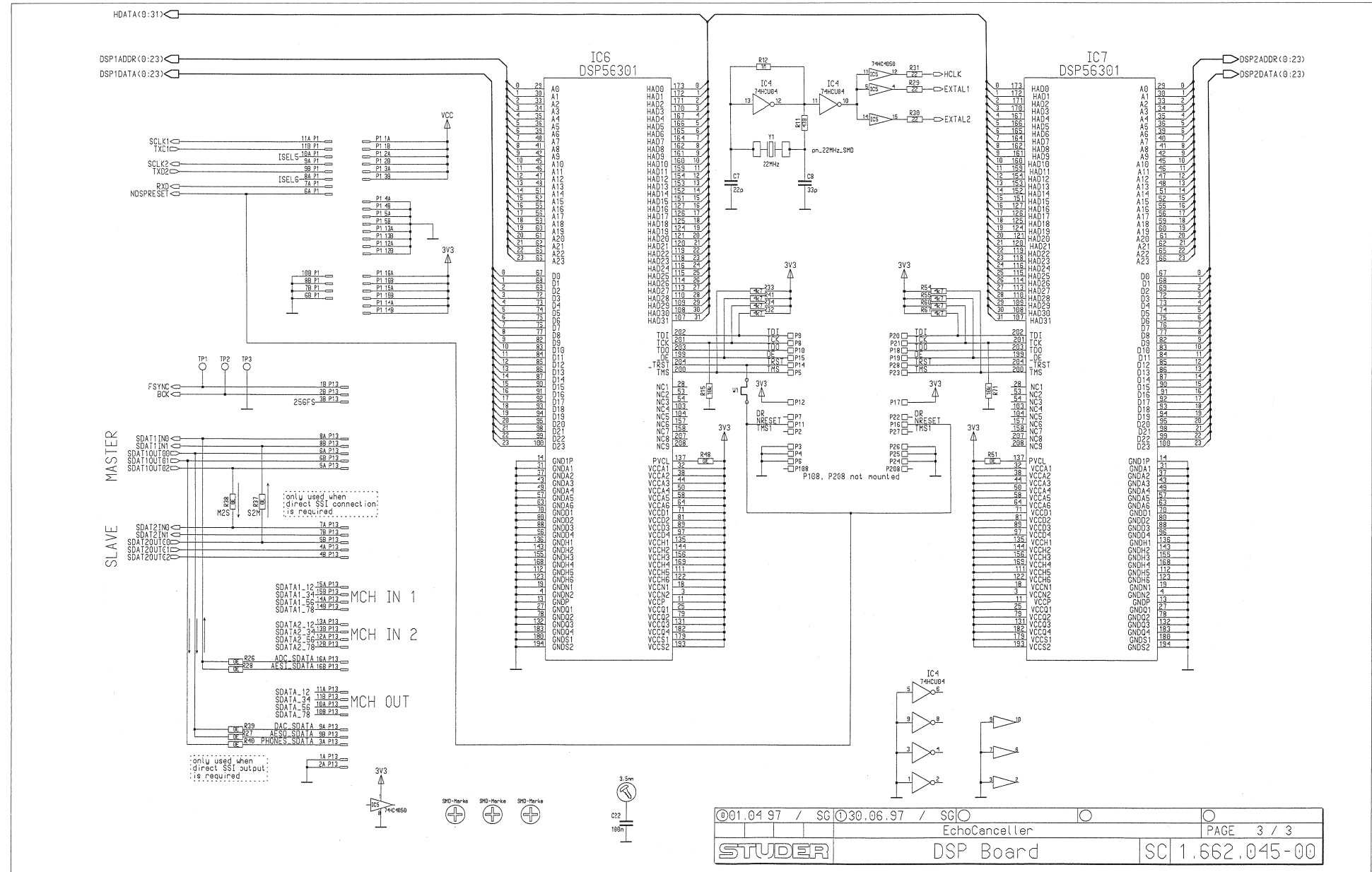


DSP Board 1.662.045.00



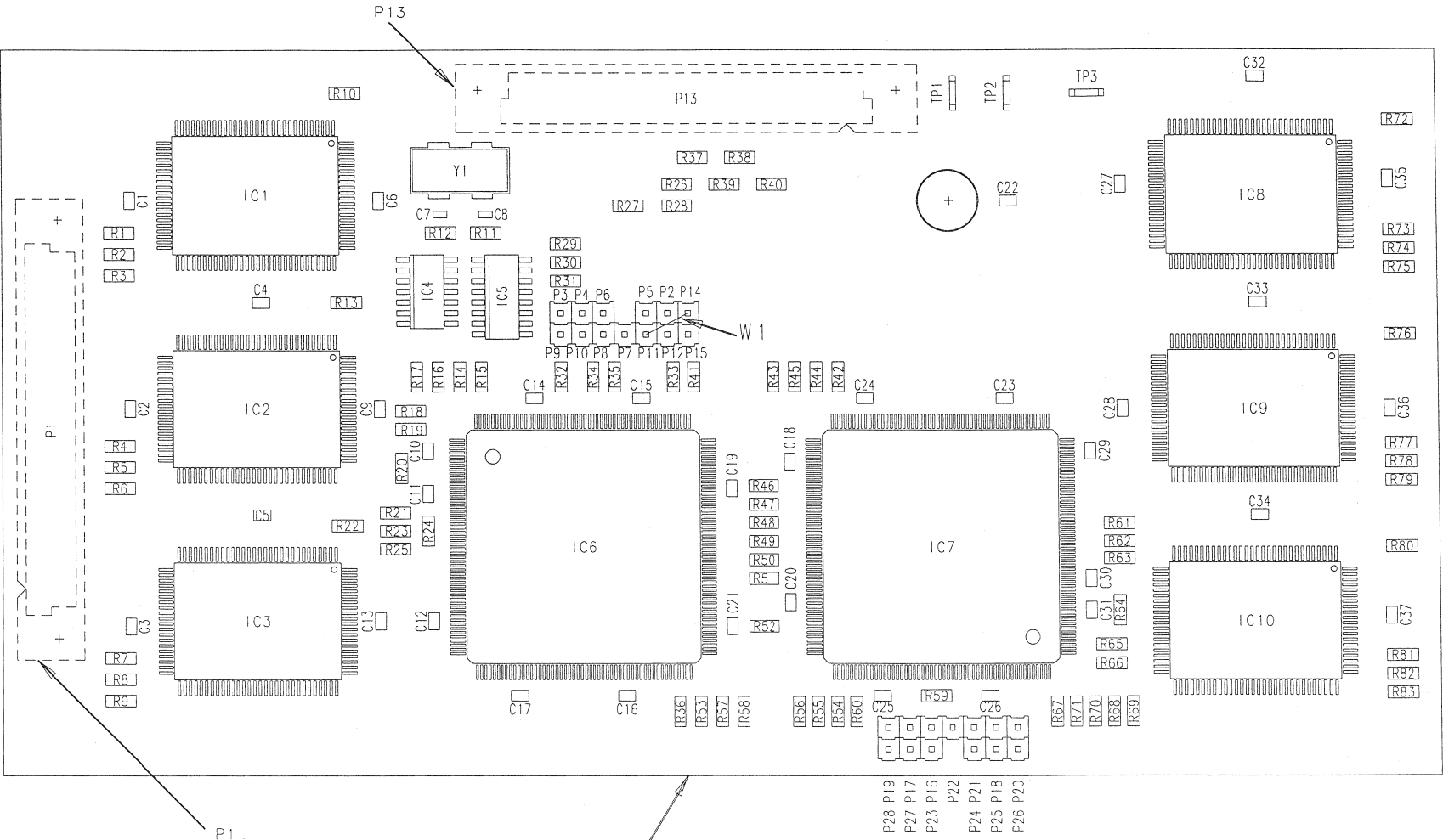


DSP Board 1.662.045.00





DSP Board 1.662.045.00



Multi-Location									
Location	30.06.97	SG							
Date	01.04.97	SG							
Version			File	Detail	Sheet	Index			
Copy to	Ripple Filter								



DSP Board 1.662.045.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description	Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	not used	100n		CER 50V, 10%, X7R, 0805	0	R 3	not used	22K		MF, 1%, 0204, E24
0	C 2	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 4	57.60.1223	22K		MF, 1%, 0204, E24
0	C 3	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 5	57.60.1000	0R0		MF, 0204
0	C 4	not used	100n		CER 50V, 10%, X7R, 0805	0	R 6	57.60.1223	22K		MF, 1%, 0204, E24
0	C 5	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 7	57.60.1223	22K		MF, 1%, 0204, E24
0	C 6	not used	100n		CER 50V, 10%, X7R, 0805	0	R 8	57.60.1000	0R0		MF, 0204
0	C 7	59.60.2233	22p		CER 50V, 5%, C0G, 0803	0	R 9	57.60.1223	22K		MF, 1%, 0204, E24
0	C 8	59.60.2237	33p		CER 50V, 5%, C0G, 0803	0	R 10	not used	22K		MF, 1%, 0204, E24
0	C 9	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 11	57.60.1471	470R		MF, 1%, 0204, E24
0	C 10	59.60.2371	820p		CER 50V, 5%, C0G, 0805	0	R 12	57.60.1105	1M		MF, 1%, 0204, E24
0	C 11	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 13	57.60.1223	22K		MF, 1%, 0204, E24
0	C 12	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 14	57.60.1222	2K2		MF, 1%, 0204, E24
0	C 13	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 15	57.60.1103	10K		MF, 1%, 0204, E24
0	C 14	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 16	57.60.1222	2K2		MF, 1%, 0204, E24
0	C 15	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 17	57.60.1222	2K2		MF, 1%, 0204, E24
0	C 16	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 18	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 17	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 19	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 18	not used	100n		CER 50V, 10%, X7R, 0805	0	R 20	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 19	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 21	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 20	not used	100n		CER 50V, 10%, X7R, 0805	0	R 22	57.60.1223	22K		MF, 1%, 0204, E24
0	C 21	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 23	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 22	59.60.3337	100n		CER 50V, 10%, X7R, 0805	0	R 24	57.60.1222	2K2		MF, 1%, 0204, E24
0	C 23	not used	100n		CER 50V, 10%, X7R, 0805	0	R 25	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 24	not used	100n		CER 50V, 10%, X7R, 0805	0	R 26	57.60.1000	0R0		MF, 0204
0	C 25	not used	100n		CER 50V, 10%, X7R, 0805	0	R 27	not used	0R0		MF, 0204
0	C 26	not used	100n		CER 50V, 10%, X7R, 0805	0	R 28	not used	0R0		MF, 0204
0	C 27	not used	100n		CER 50V, 10%, X7R, 0805	0	R 29	57.60.1220	22R		MF, 1%, 0204, E24
0	C 28	not used	100n		CER 50V, 10%, X7R, 0805	0	R 30	not used	22R		MF, 1%, 0204, E24
0	C 29	not used	100n		CER 50V, 10%, X7R, 0805	0	R 31	not used	22R		MF, 1%, 0204, E24
0	C 30	not used	100n		CER 50V, 10%, X7R, 0805	0	R 32	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 31	not used	820p		CER 50V, 5%, C0G, 0805	0	R 33	57.60.1472	4K7		MF, 1%, 0204, E24
0	C 32	not used	100n		CER 50V, 10%, X7R, 0805	0	R 34	not used	4K7		MF, 1%, 0204, E24
0	C 33	not used	100n		CER 50V, 10%, X7R, 0805	0	R 35	57.60.1222	2K2		MF, 1%, 0204, E24
0	C 34	not used	100n		CER 50V, 10%, X7R, 0805	0	R 36	57.60.1223	22K		MF, 1%, 0204, E24
0	C 35	not used	100n		CER 50V, 10%, X7R, 0805	0	R 37	57.60.1000	0R0		MF, 0204
0	C 36	not used	100n		CER 50V, 10%, X7R, 0805	0	R 38	57.60.1000	0R0		MF, 0204
0	C 37	not used	100n		CER 50V, 10%, X7R, 0805	0	R 39	57.60.1000	0R0		MF, 0204
0	IC 1	not used			69F536 SRAM 32K* 32/36 flow-through	0	R 40	57.60.1000	0R0		MF, 0204
0	IC 2	50.63.1532			69F536 SRAM 32K* 32/36 flow-through	0	R 41	57.60.1472	4K7		MF, 1%, 0204, E24
0	IC 3	50.63.1532			69F536 SRAM 32K* 32/36 flow-through	0	R 42	not used	22K		MF, 1%, 0204, E24
0	IC 4	50.62.1904			74HCU04 IC .. 74 HCU 04 .. A	0	R 43	not used	22K		MF, 1%, 0204, E24
0	IC 5	50.62.1950			74HC4050 Hex High-to-Low Level Shifter	0	R 44	not used	22K		MF, 1%, 0204, E24
0	IC 6	50.63.0409			56301 24bit DSP	0	R 45	not used	22K		MF, 1%, 0204, E24
0	IC 7	not used			56301 24bit DSP	0	R 46	not used	0R0		MF, 0204
0	IC 8	not used			69F536 SRAM 32K* 32/36 flow-through	0	R 47	not used	0R0		MF, 0204
0	IC 9	not used			69F536 SRAM 32K* 32/36 flow-through	0	R 48	57.60.1000	0R0		MF, 0204
0	IC 10	not used			69F536 SRAM 32K* 32/36 flow-through	0	R 49	not used	2K2		MF, 1%, 0204, E24
0						0	R 50	not used	2K2		MF, 1%, 0204, E24
0						0	R 51	not used	0R0		MF, 0204
0	MP 1	1.662.045.11			DSP BOARD, PCB //A	0	R 52	not used	2K2		MF, 1%, 0204, E24
0	MP 2	1.662.045.10			NR-ETIKETTE 5 X 20	0	R 53	57.60.1223	22K		MF, 1%, 0204, E24
0	MP 3	43.01.0108		Label	ESE-WARNschild	0	R 54	not used	4K7		MF, 1%, 0204, E24
0						0	R 55	not used	4K7		MF, 1%, 0204, E24
0	P 1	54.11.2501		32p	EU-QK 2*16p, Action	0	R 56	not used	2K2		MF, 1%, 0204, E24
0	P 2	not used		1p	Pin 0.63*0.63	0	R 57	57.60.1223	22K		MF, 1%, 0204, E24
0	P 3	not used		1p	Pin 0.63*0.63	0	R 58	57.60.1223	22K		MF, 1%, 0204, E24
0	P 4	not used		1p	Pin 0.63*0.63	0	R 59	not used	2K2		MF, 1%, 0204, E24
0	P 5	not used		1p	Pin 0.63*0.63	0	R 60	not used	4K7		MF, 1%, 0204, E24
0	P 6	not used		1p	Pin 0.63*0.63	0	R 61	not used	4K7		MF, 1%, 0204, E24
0	P 7	not used		1p	Pin 0.63*0.63	0	R 62	not used	4K7		MF, 1%, 0204, E24
0	P 8	not used		1p	Pin 0.63*0.63	0	R 63	not used	4K7		MF, 1%, 0204, E24
0	P 9	not used		1p	Pin 0.63*0.63	0	R 64	not used	4K7		MF, 1%, 0204, E24
0	P 10	not used		1p	Pin 0.63*0.63	0	R 65	not used	4K7		MF, 1%, 0204, E24
0	P 11	not used		1p	Pin 0.63*0.63	0	R 66	not used	4K7		MF, 1%, 0204, E24
0	P 12	not used		1p	Pin 0.63*0.63	0	R 67	not used	4K7		MF, 1%, 0204, E24
0	P 13	54.11.2501		32p	EU-QK 2*16p, Action	0	R 68	not used	2K2		MF, 1%, 0204, E24
0	P 14	not used		1p	Pin 0.63*0.63	0	R 69	not used	2K2		MF, 1%, 0204, E24
0	P 15	not used		1p	Pin 0.63*0.63	0	R 70	not used	2K2		MF, 1%, 0204, E24
0	P 16	not used		1p	Pin 0.63*0.63	0	R 71	not used	10K		MF, 1%, 0204, E24
0	P 17	not used		1p	Pin 0.63*0.63	0	R 72	not used	22K		MF, 1%, 0204, E24
0	P 18	not used		1p	Pin 0.63*0.63	0	R 73	not used	22K		MF, 1%, 0204, E24
0	P 19	not used		1p	Pin 0.63*0.63	0	R 74	not used	0R0		MF, 0204
0	P 20	not used		1p	Pin 0.63*0.63	0	R 75	not used	22K		MF, 1%, 0204, E24
0	P 21	not used		1p	Pin 0.63*0.63	0	R 76	not used	22K		MF, 1%, 0204, E24
0	P 22	not used		1p	Pin 0.63*0.63	0	R 77	not used	22K		MF, 1%, 0204, E24
0	P 23	not used		1p	Pin 0.63*0.63	0	R 78	not used	0R0		MF, 0204
0	P 24	not used		1p	Pin 0.63*0.63	0	R 79	not used	22K		MF, 1%, 0204, E24
0	P 25	not used		1p	Pin 0.63*0.63	0	R 80	not used	22K		MF, 1%, 0204, E24
0	P 26	not used		1p	Pin 0.63*0.63	0	R 81	not used	22K		MF, 1%, 0204, E24
0	P 27	not used		1p	Pin 0.63*0.63	0	R 82	not used	0R0		MF, 0204
0	P 28	not used		1p	Pin 0.63*0.63	0	R 83	not used	22K		MF, 1%, 0204, E24
0						0					
0	R 1	not used		22K	MF, 1%, 0204, E24						
0	R 2	not used		0R0	MF, 0204						



DSP Board 1.662.045.00

Idx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	TP 1	not used	1p		Flatpin, 2.8*0.8mm
0	TP 2	not used	1p		Flatpin, 2.8*0.8mm
0	TP 3	not used	1p		Flatpin, 2.8*0.8mm
1	W 1	1.010.322.64			DRAHTBRUECKE U, 4.3* 5.5. 0.6
0	Y 1	89.60.1002	16.384MHz		SMD Quartz
End of List					
Comments:					
(1) W1 compensates Silicon-Bug (mask 1F92R) by connecting TRST with NRESET.					