

MIDLAND[®]

ALAN 78 PLUS MULTI

**RICETRASMETTITORE CB
CB TRANSCEIVER**



Service Manual



Cte international

The World in Communication

CTE INTERNATIONAL s.r.l.

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Cod. 603684



TECHNICAL SPECIFICATIONS

GENERAL

Channels	(see the chart)
Frequency Range	26.615 to 30.105 MHz
Frequency Control	PLL
Operating Temperature Range	-10°/+55° C
DC input voltage	13.8V DC $\pm$ 15%
Size.....	139 (L) x 37 (H) x 182 (P) mm
Weight	0,860 kg

RECEIVER

Receiving system	dual conversion superheterodyne
Intermediate frequency	I° IF: 10.695 MHz • II° IF: 455 KHz
Sensitivity	0.5 μ V for 20 dB SINAD in FM mode
.....	0.5 μ V for 20 dB SINAD in AM mode
Audio output power @10% THD	2.0 W @ 8 Ohm
Audio distortion	less than 8% @ 1 KHz
Image rejection	65 dB
Adjacent channel rejection	65 dB
Signal/Noise ratio	45 dB
Current drain at stand/by	250mA

TRANSMITTER

Output power	4W @ 13.8V DC
Modulation	AM: from 85% to 95%
.....	FM: 1,8 KHz $\pm$ 0,2 KHz
Frequency response	from 400 Hz to 2.5 KHz
Output impedance	RF 50 Ohm unbalanced
Signal/Noise Ratio	40 dB MIN
Current drain.....	1100mA (Power position with no modulation)

All specifications are subject to change without notice.

Specification	New LCD Display
Italy 40CH AM / FM 4W	I
Italy 34CH AM / FM 4W	I2
Germany 80CH FM 4W 12CH AM 1W	D
Germany 40CH FM 4W 12CH AM 1W	D2
Europe 40CH FM 4W 40CH AM 1W	EU
CEPT 40CH FM 4W	EC
Spain 40CH AM / FM 4W	E
France 40CH FM 4W 40CH AM 1W	F
Poland 40CH AM / FM 4W Polish Frequencies –5kHz	PL
Poland 400CH AM / FM 4W Polish Frequencies –5kHz	PX
Russia 400CH AM / FM 4W	RU
Sweden 24CH FM 4W 31MHz	SW
England 40CH FM 4W English Frequencies + EC 40CH FM 4W CEPT	UK

Frequencies for I band (Italy 40CH AM / FM 4W)

CH	Frequency (MHz)	Modulation
1	26.965	AM / FM
2	26.975	AM / FM
3	26.985	AM / FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	AM / FM
17	27.165	AM / FM
18	27.175	AM / FM
19	27.185	AM / FM
20	27.205	AM / FM
21	27.215	AM / FM
22	27.225	AM / FM
23	27.255	AM / FM
24	27.235	AM / FM
25	27.245	AM / FM
26	27.265	AM / FM
27	27.275	AM / FM
28	27.285	AM / FM
29	27.295	AM / FM
30	27.305	AM / FM
31	27.315	AM / FM
32	27.325	AM / FM
33	27.335	AM / FM
34	27.345	AM / FM
35	27.355	AM / FM
36	27.365	AM / FM
37	27.375	AM / FM
38	27.385	AM / FM
39	27.395	AM / FM
40	27.405	AM / FM

Frequencies for I2 band (Italy 34CH AM / FM 4W)

CH	Frequency (MHz)	Modulation
1	26.965	AM / FM
2	26.975	AM / FM
3	26.985	AM / FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	AM / FM
17	27.165	AM / FM
18	27.175	AM / FM
19	27.185	AM / FM
20	27.205	AM / FM
21	27.215	AM / FM
22	27.225	AM / FM
23	27.255	AM / FM
24	27.245	AM / FM
25	27.265	AM / FM
26	26.875	AM / FM
27	26.885	AM / FM
28	26.895	AM / FM
29	26.905	AM / FM
30	26.915	AM / FM
31	26.925	AM / FM
32	26.935	AM / FM
33	26.945	AM / FM
34	26.955	AM / FM

Frequencies for D band (Germany 80CH FM 4W 12CH AM 1W)

CH	Frequency (MHz)	Modulation
1	26.965	FM
2	26.975	FM
3	26.985	FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	FM
17	27.165	FM
18	27.175	FM
19	27.185	FM
20	27.205	FM
21	27.215	FM
22	27.225	FM
23	27.255	FM
24	27.235	FM
25	27.245	FM
26	27.265	FM
27	27.275	FM
28	27.285	FM
29	27.295	FM
30	27.305	FM
31	27.315	FM
32	27.325	FM
33	27.335	FM
34	27.345	FM
35	27.355	FM
36	27.365	FM
37	27.375	FM
38	27.385	FM
39	27.395	FM
40	27.405	FM

CH	Frequency (MHz)	Modulation
41	26.565	FM
42	26.575	FM
43	26.585	FM
44	26.595	FM
45	26.605	FM
46	26.615	FM
47	26.625	FM
48	26.635	FM
49	26.645	FM
50	26.655	FM
51	26.665	FM
52	26.675	FM
53	26.685	FM
54	26.695	FM
55	26.705	FM
56	26.715	FM
57	26.725	FM
58	26.735	FM
59	26.745	FM
60	26.755	FM
61	26.765	FM
62	26.775	FM
63	26.785	FM
64	26.795	FM
65	26.805	FM
66	26.815	FM
67	26.825	FM
68	26.835	FM
69	26.845	FM
70	26.855	FM
71	26.865	FM
72	26.875	FM
73	26.885	FM
74	26.895	FM
75	26.905	FM
76	26.915	FM
77	26.925	FM
78	26.935	FM
79	26.945	FM
80	26.955	FM

Frequencies for D2 band (Germany 40CH FM 4W 12CH AM 1W)

CH	Frequency (MHz)	Modulation
1	26.965	FM
2	26.975	FM
3	26.985	FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	FM
17	27.165	FM
18	27.175	FM
19	27.185	FM
20	27.205	FM
21	27.215	FM
22	27.225	FM
23	27.255	FM
24	27.235	FM
25	27.245	FM
26	27.265	FM
27	27.275	FM
28	27.285	FM
29	27.295	FM
30	27.305	FM
31	27.315	FM
32	27.325	FM
33	27.335	FM
34	27.345	FM
35	27.355	FM
36	27.365	FM
37	27.375	FM
38	27.385	FM
39	27.395	FM
40	27.405	FM

Frequencies for EU band (Europe 40CH FM 4W 40CH AM 1W)

CH	Frequency (MHz)	Modulation
1	26.965	AM / FM
2	26.975	AM / FM
3	26.985	AM / FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	AM / FM
17	27.165	AM / FM
18	27.175	AM / FM
19	27.185	AM / FM
20	27.205	AM / FM
21	27.215	AM / FM
22	27.225	AM / FM
23	27.255	AM / FM
24	27.235	AM / FM
25	27.245	AM / FM
26	27.265	AM / FM
27	27.275	AM / FM
28	27.285	AM / FM
29	27.295	AM / FM
30	27.305	AM / FM
31	27.315	AM / FM
32	27.325	AM / FM
33	27.335	AM / FM
34	27.345	AM / FM
35	27.355	AM / FM
36	27.365	AM / FM
37	27.375	AM / FM
38	27.385	AM / FM
39	27.395	AM / FM
40	27.405	AM / FM

Frequencies for EC band (CEPT 40CH FM 4W)

CH	Frequency (MHz)	Modulation
1	26.965	FM
2	26.975	FM
3	26.985	FM
4	27.005	FM
5	27.015	FM
6	27.025	FM
7	27.035	FM
8	27.055	FM
9	27.065	FM
10	27.075	FM
11	27.085	FM
12	27.105	FM
13	27.115	FM
14	27.125	FM
15	27.135	FM
16	27.155	FM
17	27.165	FM
18	27.175	FM
19	27.185	FM
20	27.205	FM
21	27.215	FM
22	27.225	FM
23	27.255	FM
24	27.235	FM
25	27.245	FM
26	27.265	FM
27	27.275	FM
28	27.285	FM
29	27.295	FM
30	27.305	FM
31	27.315	FM
32	27.325	FM
33	27.335	FM
34	27.345	FM
35	27.355	FM
36	27.365	FM
37	27.375	FM
38	27.385	FM
39	27.395	FM
40	27.405	FM

Frequencies for E band (Spain 40CH AM / FM 4W)

CH	Frequency (MHz)	Modulation
1	26.965	AM / FM
2	26.975	AM / FM
3	26.985	AM / FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	AM / FM
17	27.165	AM / FM
18	27.175	AM / FM
19	27.185	AM / FM
20	27.205	AM / FM
21	27.215	AM / FM
22	27.225	AM / FM
23	27.255	AM / FM
24	27.235	AM / FM
25	27.245	AM / FM
26	27.265	AM / FM
27	27.275	AM / FM
28	27.285	AM / FM
29	27.295	AM / FM
30	27.305	AM / FM
31	27.315	AM / FM
32	27.325	AM / FM
33	27.335	AM / FM
34	27.345	AM / FM
35	27.355	AM / FM
36	27.365	AM / FM
37	27.375	AM / FM
38	27.385	AM / FM
39	27.395	AM / FM
40	27.405	AM / FM

Frequencies for F band (France 40CH FM 4W 40CH AM 1W)

CH	Frequency (MHz)	Modulation
1	26.965	AM / FM
2	26.975	AM / FM
3	26.985	AM / FM
4	27.005	AM / FM
5	27.015	AM / FM
6	27.025	AM / FM
7	27.035	AM / FM
8	27.055	AM / FM
9	27.065	AM / FM
10	27.075	AM / FM
11	27.085	AM / FM
12	27.105	AM / FM
13	27.115	AM / FM
14	27.125	AM / FM
15	27.135	AM / FM
16	27.155	AM / FM
17	27.165	AM / FM
18	27.175	AM / FM
19	27.185	AM / FM
20	27.205	AM / FM
21	27.215	AM / FM
22	27.225	AM / FM
23	27.255	AM / FM
24	27.235	AM / FM
25	27.245	AM / FM
26	27.265	AM / FM
27	27.275	AM / FM
28	27.285	AM / FM
29	27.295	AM / FM
30	27.305	AM / FM
31	27.315	AM / FM
32	27.325	AM / FM
33	27.335	AM / FM
34	27.345	AM / FM
35	27.355	AM / FM
36	27.365	AM / FM
37	27.375	AM / FM
38	27.385	AM / FM
39	27.395	AM / FM
40	27.405	AM / FM

Frequencies for PL band (Poland 40CH AM / FM 4W Polish Frequencies –5kHz)

CH	Frequency (MHz)	Modulation
1	26.960	AM / FM
2	26.970	AM / FM
3	26.980	AM / FM
4	27.000	AM / FM
5	27.010	AM / FM
6	27.020	AM / FM
7	27.030	AM / FM
8	27.050	AM / FM
9	27.060	AM / FM
10	27.070	AM / FM
11	27.080	AM / FM
12	27.100	AM / FM
13	27.110	AM / FM
14	27.120	AM / FM
15	27.130	AM / FM
16	27.150	AM / FM
17	27.160	AM / FM
18	27.170	AM / FM
19	27.180	AM / FM
20	27.200	AM / FM
21	27.210	AM / FM
22	27.220	AM / FM
23	27.250	AM / FM
24	27.230	AM / FM
25	27.240	AM / FM
26	27.260	AM / FM
27	27.270	AM / FM
28	27.280	AM / FM
29	27.290	AM / FM
30	27.300	AM / FM
31	27.310	AM / FM
32	27.320	AM / FM
33	27.330	AM / FM
34	27.340	AM / FM
35	27.350	AM / FM
36	27.360	AM / FM
37	27.370	AM / FM
38	27.380	AM / FM
39	27.390	AM / FM
40	27.400	AM / FM

Frequencies for PX band (Poland 400CH AM / FM 4W Polish Frequencies –5kHz)

CH	Band A	Band B	Band C	Band D	Band E	Band F	Band G	Band H	Band I	Band L
1	25.610	26.060	26.510	26.960	27.410	27.860	28.310	28.760	29.210	29.660
2	25.620	26.070	26.520	26.970	27.420	27.870	28.320	28.770	29.220	29.670
3	25.630	26.080	26.530	26.980	27.430	27.880	28.330	28.780	29.230	29.680
4	25.650	26.100	26.550	27.000	27.450	27.900	28.350	28.800	29.250	29.700
5	25.660	26.110	26.560	27.010	27.460	27.910	28.360	28.810	29.260	29.710
6	25.670	26.120	26.570	27.020	27.470	27.920	28.370	28.820	29.270	29.720
7	25.680	26.130	26.580	27.030	27.480	27.930	28.380	28.830	29.280	29.730
8	25.700	26.150	26.600	27.050	27.500	27.950	28.400	28.850	29.300	29.750
9	25.710	26.160	26.610	27.060	27.510	27.960	28.410	28.860	29.310	29.760
10	25.720	26.170	26.620	27.070	27.520	27.970	28.420	28.870	29.320	29.770
11	25.730	26.180	26.630	27.080	27.530	27.980	28.430	28.880	29.330	29.780
12	25.750	26.200	26.650	27.100	27.550	28.000	28.450	28.900	29.350	29.800
13	25.760	26.210	26.660	27.110	27.560	28.010	28.460	28.910	29.360	29.810
14	25.770	26.220	26.670	27.120	27.570	28.020	28.470	28.920	29.370	29.820
15	25.780	26.230	26.680	27.130	27.580	28.030	28.480	28.930	29.380	29.830
16	25.800	26.250	26.700	27.150	27.600	28.050	28.500	28.950	29.400	29.850
17	25.810	26.260	26.710	27.160	27.610	28.060	28.510	28.960	29.410	29.860
18	25.820	26.270	26.720	27.170	27.620	28.070	28.520	28.970	29.420	29.870
19	25.830	26.280	26.730	27.180	27.630	28.080	28.530	28.980	29.430	29.880
20	25.850	26.300	26.750	27.200	27.650	28.100	28.550	29.000	29.450	29.900
21	25.860	26.310	26.760	27.210	27.660	28.110	28.560	29.010	29.460	29.910
22	25.870	26.320	26.770	27.220	27.670	28.120	28.570	29.020	29.470	29.920
23	25.900	26.350	26.800	27.250	27.700	28.150	28.600	29.050	29.500	29.950
24	25.880	26.330	26.780	27.230	27.680	28.130	28.580	29.030	29.480	29.930
25	25.890	26.340	26.790	27.240	27.690	28.140	28.590	29.040	29.490	29.940
26	25.910	26.360	26.810	27.260	27.710	28.160	28.610	29.060	29.510	29.960
27	25.920	26.370	26.820	27.270	27.720	28.170	28.620	29.070	29.520	29.970
28	25.930	26.380	26.830	27.280	27.730	28.180	28.630	29.080	29.530	29.980
29	25.940	26.390	26.840	27.290	27.740	28.190	28.640	29.090	29.540	29.990
30	25.950	26.400	26.850	27.300	27.750	28.200	28.650	29.100	29.550	30.000
31	25.960	26.410	26.860	27.310	27.760	28.210	28.660	29.110	29.560	30.010
32	25.970	26.420	26.870	27.320	27.770	28.220	28.670	29.120	29.570	30.020
33	25.980	26.430	26.880	27.330	27.780	28.230	28.680	29.130	29.580	30.030
34	25.990	26.440	26.890	27.340	27.790	28.240	28.690	29.140	29.590	30.040
35	26.000	26.450	26.900	27.350	27.800	28.250	28.700	29.150	29.600	30.050
36	26.010	26.460	26.910	27.360	27.810	28.260	28.710	29.160	29.610	30.060
37	26.020	26.470	26.920	27.370	27.820	28.270	28.720	29.170	29.620	30.070
38	26.030	26.480	26.930	27.380	27.830	28.280	28.730	29.180	29.630	30.080
39	26.040	26.490	26.940	27.390	27.840	28.290	28.740	29.190	29.640	30.090
40	26.050	26.500	26.950	27.400	27.850	28.300	28.750	29.200	29.650	30.100

Frequencies for RU band (Russia 400CH AM / FM 4W)

CH	Band A	Band B	Band C	Band D	Band E	Band F	Band G	Band H	Band I	Band L
1	25.615	26.065	26.515	26.965	27.415	27.865	28.315	28.765	29.215	29.665
2	25.625	26.075	26.525	26.975	27.425	27.875	28.325	28.775	29.225	29.675
3	25.635	26.085	26.535	26.985	27.435	27.885	28.335	28.785	29.235	29.685
4	25.655	26.105	26.555	27.005	27.455	27.905	28.355	28.805	29.255	29.705
5	25.665	26.115	26.565	27.015	27.465	27.915	28.365	28.815	29.265	29.715
6	25.675	26.125	26.575	27.025	27.475	27.925	28.375	28.825	29.275	29.725
7	25.685	26.135	26.585	27.035	27.485	27.935	28.385	28.835	29.285	29.735
8	25.705	26.155	26.605	27.055	27.505	27.955	28.405	28.855	29.305	29.755
9	25.715	26.165	26.615	27.065	27.515	27.965	28.415	28.865	29.315	29.765
10	25.725	26.175	26.625	27.075	27.525	27.975	28.425	28.875	29.325	29.775
11	25.735	26.185	26.635	27.085	27.535	27.985	28.435	28.885	29.335	29.785
12	25.755	26.205	26.655	27.105	27.555	28.005	28.455	28.905	29.355	29.805
13	25.765	26.215	26.665	27.115	27.565	28.015	28.465	28.915	29.365	29.815
14	25.775	26.225	26.675	27.125	27.575	28.025	28.475	28.925	29.375	29.825
15	25.785	26.235	26.685	27.135	27.585	28.035	28.485	28.935	29.385	29.835
16	25.805	26.255	26.705	27.155	27.605	28.055	28.505	28.955	29.405	29.855
17	25.815	26.265	26.715	27.165	27.615	28.065	28.515	28.965	29.415	29.865
18	25.825	26.275	26.725	27.175	27.625	28.075	28.525	28.975	29.425	29.875
19	25.835	26.285	26.735	27.185	27.635	28.085	28.535	28.985	29.435	29.885
20	25.855	26.305	26.755	27.205	27.655	28.105	28.555	29.005	29.455	29.905
21	25.865	26.315	26.765	27.215	27.665	28.115	28.565	29.015	29.465	29.915
22	25.875	26.325	26.775	27.225	27.675	28.125	28.575	29.025	29.475	29.925
23	25.905	26.355	26.805	27.255	27.705	28.155	28.605	29.055	29.505	29.955
24	25.885	26.335	26.785	27.235	27.685	28.135	28.585	29.035	29.485	29.935
25	25.895	26.345	26.795	27.245	27.695	28.145	28.595	29.045	29.495	29.945
26	25.915	26.365	26.815	27.265	27.715	28.165	28.615	29.065	29.515	29.965
27	25.925	26.375	26.825	27.275	27.725	28.175	28.625	29.075	29.525	29.975
28	25.935	26.385	26.835	27.285	27.735	28.185	28.635	29.085	29.535	29.985
29	25.945	26.395	26.845	27.295	27.745	28.195	28.645	29.095	29.545	29.995
30	25.955	26.405	26.855	27.305	27.755	28.205	28.655	29.105	29.555	30.005
31	25.965	26.415	26.865	27.315	27.765	28.215	28.665	29.115	29.565	30.015
32	25.975	26.425	26.875	27.325	27.775	28.225	28.675	29.125	29.575	30.025
33	25.985	26.435	26.885	27.335	27.785	28.235	28.685	29.135	29.585	30.035
34	25.995	26.445	26.895	27.345	27.795	28.245	28.695	29.145	29.595	30.045
35	26.005	26.455	26.905	27.355	27.805	28.255	28.705	29.155	29.605	30.055
36	26.015	26.465	26.915	27.365	27.815	28.265	28.715	29.165	29.615	30.065
37	26.025	26.475	26.925	27.375	27.825	28.275	28.725	29.175	29.625	30.075
38	26.035	26.485	26.935	27.385	27.835	28.285	28.735	29.185	29.635	30.085
39	26.045	26.495	26.945	27.395	27.845	28.295	28.745	29.195	29.645	30.095
40	26.055	26.505	26.955	27.405	27.855	28.305	28.755	29.205	29.655	30.105

Frequencies for SW band (Sweden 24 CH FM 4W 31 MHz)

CH	Frequency (MHz)	Modulation
1	30.930	FM
2	31.040	FM
3	31.050	FM
4	31.060	FM
5	31.070	FM
6	31.080	FM
7	31.090	FM
8	31.100	FM
9	31.110	FM
10	31.120	FM
11	31.140	FM
12	31.150	FM
13	31.160	FM
14	31.180	FM
15	31.190	FM
16	31.200	FM
17	31.210	FM
18	31.220	FM
19	31.250	FM
20	31.260	FM
21	31.270	FM
22	31.330	FM
23	31.340	FM
24	31.570	FM

Frequencies for UK band (England 40CH FM 4W + CEPT 40CH FM 4W)

England Frequencies

CH	Frequency (MHz)	Modulation
1	27.60125	FM
2	27.61125	FM
3	27.62125	FM
4	27.63125	FM
5	27.64125	FM
6	27.65125	FM
7	27.66125	FM
8	27.67125	FM
9	27.68125	FM
10	27.69125	FM
11	27.70125	FM
12	27.71125	FM
13	27.72125	FM
14	27.73125	FM
15	27.74125	FM
16	27.75125	FM
17	27.76125	FM
18	27.77125	FM
19	27.78125	FM
20	27.79125	FM
21	27.80125	FM
22	27.81125	FM
23	27.82125	FM
24	27.83125	FM
25	27.84125	FM
26	27.85125	FM
27	27.86125	FM
28	27.87125	FM
29	27.88125	FM
30	27.89125	FM
31	27.90125	FM
32	27.91125	FM
33	27.92125	FM
34	27.93125	FM
35	27.94125	FM
36	27.95125	FM
37	27.96125	FM
38	27.97125	FM
39	27.98125	FM
40	27.99125	FM

CEPT Frequencies

CH	Frequency (MHz)	Modulation
1	26.965	FM
2	26.975	FM
3	26.985	FM
4	27.005	FM
5	27.015	FM
6	27.025	FM
7	27.035	FM
8	27.055	FM
9	27.065	FM
10	27.075	FM
11	27.085	FM
12	27.105	FM
13	27.115	FM
14	27.125	FM
15	27.135	FM
16	27.155	FM
17	27.165	FM
18	27.175	FM
19	27.185	FM
20	27.205	FM
21	27.215	FM
22	27.225	FM
23	27.255	FM
24	27.235	FM
25	27.245	FM
26	27.265	FM
27	27.275	FM
28	27.285	FM
29	27.295	FM
30	27.305	FM
31	27.315	FM
32	27.325	FM
33	27.335	FM
34	27.345	FM
35	27.355	FM
36	27.365	FM
37	27.375	FM
38	27.385	FM
39	27.395	FM
40	27.405	FM

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P A R T S L I S T

DEVELOPMENT : FINAL # RIR610B

DESIGN : FINAL
TECHNIQUE : FINAL

MODEL : 3876 Rev.: 062
2/06/13 11:28:16 ALAN78 PLUS MULTI ALAN78P UK

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SEQ	LEVEL	PART-NO.	NAME & DESCRIPTION	ECO-NO.	Q'TY	UT	G	KON	OPT	REFERENCE-NO
1	2	538-76C-A	COVER ASS'Y		1.000	EA	A			
		1/09/03								
3		420-128-4	SPEAKER		1.000	EA	B	SUB		
		1/11/26 C	CT01-0885							
3		633-082	(+)TAP TITE SCREW BH3X6 BLK		9.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		719-062	COVER BOTTOM		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		719-063	COVER UPPER		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		730-015-A	HOLDER(SPK)		3.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		901-226	FELT		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
2	2	538-76E-SC	ESCUTCHEON ASS'Y		1.000	EA	A			
		2/01/11 A	CS-HJLEE							
3		611-095	(+)MACHINE SCREW(FH)2.6X5 ZN-PLAT		4.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		621-168	(+)TAPPING SCREW(BH)2.6X8-2S ZN-PLAT		2.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		801-290-J	E.S.C		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		813-923-A	LENS		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		826-143	KNOB VOL		2.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		826-144	KNOB CH		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3		895-097	PUSH BUTTON		1.000	EA	B	SUB		
		2/05/13 C	AT02-KATHI							
3	2	538-76F-B	FRONT BODY ASS'Y		1.000	EA	A			
		1/09/03								
3		131-510-9Y	DISK CERAMIC		1.000	EA	B	SUB		C331A

C331A

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3	2/05/13 C AT02-KATHI	PC 141 WHT (ALAN-78PLUS)	1.000 EA B SUB	
	719-119-A HOUSING LCD			
3	2/05/13 C AT02-KATHI	SPTT T0.3	1.000 EA B SUB	
	732-560 HOLDER(ANT MTG)			
3	2/05/13 C AT02-KATHI	P.P BLK	1.000 EA B SUB	
	750-039-A CORD STOPPER			
3	2/05/13 C AT02-KATHI	ALP3 T2	1.000 EA B SUB	
	760-705 HEAT SINK			
3	2/05/13 C AT02-KATHI	SPTT T0.3	1.000 EA B MAN	
	771-525 SHIELD HOUSING			
3	2/06/08 C AT02-KATHI	SPTT T0.3	1.000 EA B SUB	
	771-530 SHIELD PLATE			
3	2/05/13 C AT02-KATHI	SPTT T0.3	1.000 EA B MAN	
	771-710-A SHIELD PLATE			
3	2/06/08 C AT02-KATHI	SPTT T0.3	1.000 EA B SUB	
	772-239 SHIELD PLATE(ESD)			
3	2/05/13 C AT02-KATHI	TIN PLATE T0.4	1.000 EA B SUB	
	772-594 SHIELD PLATE			
3	2/05/22 C CT02-0500	PC T0.5	1.000 EA B SUB	
	795-697 PLATE BACK			
3	2/05/13 C AT02-KATHI	NYLON66+GLASS	2.000 EA B SUB	
	853-105 BUSHING			
3	2/05/13 C AT02-KATHI	8X45XT0.3 FELT STIC.ALAN48PLUS	2.000 EA B SUB	
	901-794-A FELT			
3	2/05/13 C CT02-0423	6X140XT1 STICKER FELT	0.250 EA B SUB	
	903-980 FELT			
3	2/05/13 C AT02-KATHI	INSULATION PAPER T0.25	1.000 EA B SUB	
	905-685-A INSULATION PLATE			
3	2/05/13 C AT02-KATHI		1.000 EA A	
	538-76L-PA LCD PCB ASS'Y			
4	1/09/03	60MA 3& 14V	3.000 EA B SUB	B101.102.103
	251-224-8Z PILOT LAMP			
3	1/10/25 C CT01-0727	SKTS-1102PB	5.000 EA B MAN	SW1.2.4.9.11
	436-059-7 SW TACT			
3	2/06/08 C AT02-KATHI		1.000 EA A	
	538-76M-A MIC ASS'Y			
5	1/09/03	10K 1/ 8W 5% ST	1.000 EA B AUT	R34
	002-103-0Z FILM RESISTOR			
3	2/05/29 C AT02-KATHI	22K 1/ 8W 5% ST	1.000 EA B AUT	R501
	002-223-5Z FILM RESISTOR			
3	2/05/29 C AT02-KATHI	0.001UF UP050B102MK 50V	1.000 EA B SUB	C501
	130-187-7 AXIAL CERAMIC			
3	2/01/18 A CT02-KATHI	FDM-600M	1.000 EA B SUB	
	420-233-5 MIC CARTRIDGE			
3	2/01/07 A CT02-KATHI	5COND.1SH BLK KSK-23063	1.000 EA B SUB	
	420-340-7Z CORD CURLED			

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3	2/01/07 A	CT02-KATHI	SCN-16-6L	1.000	EA	B	SUB	J104
	421-084-1	CONNECTOR PLUG						
3	2/01/18 C	CT02-KATHI	SKPS-2210C	1.000	EA	B	SUB	SW106
	432-058-3Y	PUSH SWITCH						
3	2/05/11 C	CT02-0406	SAT-1102-2	3.000	EA	B	SUB	SW3.107.108
	436-020-1	SW TACT						
3	2/01/18 C	CT02-KATHI	ABS M6X8(P:1)BLK	2.000	EA	B	SUB	
	600-718	(-)SECURING SCREW						
3	2/05/13 C	AT02-KATHI	(+)TAPPING SCREW(PH)T2.6X16-2S (+)PH NI-PLAT	5.000	EA	B	SUB	
	621-098	(+)TAPPING SCREW(BH)2.6X8-1S ZN-PLAT						
3	2/05/13 C	AT02-KATHI	(+)TAPPING SCREW(BH)3X8-2S NI-PLAT	3.000	EA	B	SUB	
	621-159	(+)TAPPING SCREW(BH)5X12-1S ZN-PLAT						
3	2/05/13 C	AT02-KATHI	(+)TAPPING SCREW(BH)3X8-2S NI-PLAT	2.000	EA	B	SUB	
	623-627	(+)TAPPING SCREW(BH)5X12-1S ZN-PLAT						
3	2/05/13 C	AT02-KATHI	(+)TAPPING SCREW(BH)5X12-1S ZN-PLAT	3.000	EA	B	SUB	
	625-007	(+)TAPPING SCREW(BH)5X12-1S ZN-PLAT						
3	2/05/13 C	AT02-KATHI						

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P A R T S L I S T

RIR610B

DEVELOPMENT : FINAL

DESIGN : FINAL

TECHNIQUE : FINAL

Rev.: 062

MODEL : 3876 ALAN78 PLUS MULTI ALAN78P UK

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SEQ	LEVEL	PART-NO.	NAME & DESCRIPTION	Q'TY	UT	G	KON	OPT	REFERENCE-NO
ECO-DATE	ECO-NO.								

3	660-138	WASHER	RUBB.&7X&25XT1.5 BLK	2.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	664-320	WASHER(LOCK"B"TYPE) M3 NI-PLAT		2.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	664-518	WASHER(LOCK"B"TYPE) M5 ZN-PLAT		3.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	710-409	COVER UPPER	ABS 94HB BLK	1.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	710-417-A	COVER BOTTOM(MIC)	ABS 94HB BLK	1.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	720-095	BRACKET(MIC)	SKD-5 CR-PLAT	1.000	EA	B	SUB		
	2/05/13 C	AT02-KATHI							
3	723-835	BRACKET(SET MTG)	SPC T1.6	1.000	EA	B	SUB		

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3	2/05/13 C AT02-KATHI	PC BLK	1.000 EA B SUB	
	730-024-B HOLDER(MIC)			
3	2/05/13 C AT02-KATHI	ABS SILK BLK	1.000 EA B SUB	
	740-390 LEVER(MIC)			
3	2/05/13 C AT02-KATHI	ALP3 16X47XT0.4	1.000 EA B SUB	
	780-214 NAME PLATE(MIC)			
3	2/05/13 C AT02-KATHI	PVC 23.9X12.8XT0.4 CLEAR	1.000 EA B SUB	
	795-610 PLATE(MIC)			
3	2/06/05 A CT02-0588	ABS 94HB BLK	3.000 EA B SUB	
	825-600 KNOB (MIC)			
3	2/05/13 C AT02-KATHI	ABS94HB WHT SILVER SPRAY SCREE	1.000 EA B SUB	
	830-090-B BEZEL			
3	2/05/13 C AT02-KATHI	ABS BLK	1.000 EA B SUB	
	830-480 GRILL CAP(MIC)			
3	2/05/13 C AT02-KATHI	NYLON	1.000 EA B SUB	
	870-036 WIRE CLAMP (CORD)			
3	2/05/13 C AT02-KATHI	SW2E 242(W)X80(D)X50(H)	1.000 EA B FIN	
	91B-753 BOX MIC			
3	2/01/11 A CS-HJLEE	P.E 100X100XT0.05	2.000 EA B FIN	
	921-010-EA POLYBAG(PRINT)			
3	2/01/11 A CS-HJLEE	P.E 100X200XT0.05	1.000 EA B FIN	
	921-020-EA POLYBAG (PRINT)			
3	2/01/11 A CS-HJLEE		1.000 EA A	
6 2	538-76M-PA MAIN PCB AUTO ASS'Y			
	1/09/03			
3	002-100-7Z FILM RESISTOR	10 1/ 8W 5% ST	1.000 EA B AUT	R33
	2/01/07 A CT02-KATHI			
3	002-101-8Z FILM RESISTOR	100 1/ 8W 5% ST	7.000 EA B AUT	
R104.109.139.152.276.425.447	2/05/29 C AT02-KATHI			
3	002-102-9Z FILM RESISTOR	1K 1/ 8W 5% ST	9.000 EA B AUT	
R38.105.106.116.125.127.226.	2/05/15 C AT02-KATHI			412.416
3	002-103-0Z FILM RESISTOR	10K 1/ 8W 5% ST	19.000 EA B AUT	
R1.23.24.25.108.117.133.142.	2/05/30 C CT02-0528			
203.228.232.418.444.446.126. +				
3	002-104-1Z FILM RESISTOR	100K 1/ 8W 5% ST	31.000 EA B AUT	134.2.35.107
R37.141.157.411.415.701.2,3,4,	2/05/11 C CT02-0406			
5,6,7,8,9,10,11,12,13,14,15, +				
16,17,18,19,20,21,22.903.904.				
3	002-105-2Z FILM RESISTOR	1M 1/ 8W 5% ST	1.000 EA B AUT	905.406 R427
	2/01/07 C CT02-KATHI			

3	002-123-8Z	FILM RESISTOR	12K	1/ 8W 5% ST	3.000	EA B AUT	R30.431.445
3	002-151-3Z	FILM RESISTOR	150	1/ 8W 5% ST	2.000	EA B AUT	R229.313
3	002-152-4Z	FILM RESISTOR	1.5K	1/ 8W 5% ST	3.000	EA B AUT	R218.421.426
3	002-154-6Z	FILM RESISTOR	150K	1/ 8W 5% ST	1.000	EA B AUT	R301
3	002-155-7Z	FILM RESISTOR	1.5M	1/ 8W 5% ST	1.000	EA B AUT	R434
3	002-183-2Z	FILM RESISTOR	18K	1/ 8W 5% ST	1.000	EA B AUT	R111
3	002-221-3Z	FILM RESISTOR	220	1/ 8W 5% ST	2.000	EA B AUT	R153.302
3	002-222-4Z	FILM RESISTOR	2.2K	1/ 8W 5% ST	12.000	EA B AUT	
R40.41.42.113.137.201.211.219. 2/05/23 C	CT02-0506						
3	002-222-4Z	FILM RESISTOR	2.2K	1/ 8W 5% ST	2.000	EA B MAN	221.222.227.433
3	002-223-5Z	FILM RESISTOR	22K	1/ 8W 5% ST	3.000	EA B AUT	R28.408
3	002-224-6Z	FILM RESISTOR	220K	1/ 8W 5% ST	2.000	EA B AUT	R154.162.277
3	002-225-7Z	FILM RESISTOR	2.2M	1/ 8W 5% ST	1.000	EA B AUT	R156.159
3	002-272-9Z	FILM RESISTOR	2.7K	1/ 8W 5% ST	2.000	EA B AUT	R135
3	002-273-0Z	FILM RESISTOR	27K	1/ 8W 5% ST	3.000	EA B AUT	R136.151
3	002-332-0Z	FILM RESISTOR	3.3K	1/ 8W 5% ST	2.000	EA B AUT	R103.122.147
3	002-333-1Z	FILM RESISTOR	33K	1/ 8W 5% ST	6.000	EA B AUT	R202.208
R26.149.414.436.437.438	2/05/11 C	CT02-0406	3.9K	1/ 8W 5% ST	1.000	EA B AUT	
3	002-392-4Z	FILM RESISTOR	39K	1/ 8W 5% ST	1.000	EA B AUT	R278
3	002-393-5Z	FILM RESISTOR	39K	1/ 8W 5% ST	1.000	EA B AUT	R155
3	002-470-1Z	FILM RESISTOR	47	1/ 8W 5% ST	1.000	EA B MAN	R407
3	002-471-2Z	FILM RESISTOR	470	1/ 8W 5% ST	4.000	EA B AUT	R27.128.204.306
3	002-472-3Z	FILM RESISTOR	4.7K	1/ 8W 5% ST	4.000	EA B AUT	R101.112.213.311
R32.118.119.129.143.144.236. 2/05/11 C	CT02-0406				9.000	EA B AUT	
							303.304

	3	130-187-7	AXIAL CERAMIC	0.001UF	UP050B102MK	50V	6.000	EA	B	AUT	
C132.144.221.226.442.446		2/05/11	C	CT02-0406							
	3	130-188-8Z	AXIAL CERAMIC	0.01UF	EP050Y103MN	16V	27.000	EA	B	AUT	
C102.5.6.12.21.9.37-8,47,9.217		2/05/29	C	AT02-KATHI							
,27,34,6,41.304,8.302.443.10.+											
139.231.401.424.427.438.701											
	3	130-188-8Z	AXIAL CERAMIC	0.01UF	EP050Y103MN	16V	1.000	EA	B	MAN	C503
	2/05/29	C	AT02-KATHI								
	3	130-203-9	AXIAL CERAMIC	0.0022UF	EP050X222MN	16V	1.000	EA	B	AUT	C26
	2/05/11	A	CT02-0406								
	3	130-227-9	AXIAL CERAMIC	0.022UF	RH050F	223Z 50V	3.000	EA	B	AUT	C152.201.306
	2/05/11	C	CT02-0406								
	3	130-418-5	AXIAL CERAMIC	0.0047UF	EP050X472MN	16V	1.000	EA	B	AUT	C146
	2/01/07	C	CT02-KATHI								
	3	130-427-3	AXIAL CERAMIC	0.047UF	UP050F473ZB	50V	1.000	EA	B	AUT	C445
	2/05/11	A	CT02-0406								
	3	130-613-4	AXIAL CERAMIC	0.0068UF	EP050X682K	16V	1.000	EA	B	AUT	C454
	1/09/03										
	3	131-213-1	AXIAL CERAMIC	120PF	UP050B121K50V	50V	1.000	EA	B	AUT	C19
	2/05/11	A	CT02-0406								
	3	136-840-2	CHIP CERAMIC	680PF	GRM39 X7R681J	50V PT	1.000	EA	B	AUT	C457
	2/05/11	C	CT02-0406								
D5.6.7.8.101,2,3,4,5,6,7,8,9,	3	243-019-7Z	DIODE	1N4148			27.000	EA	B	AUT	
		2/05/29	C	AT02-KATHI							
13,4.301,2.406,8,11,3,4.1.2.3+											.4.303
	3	4A1-162-A	P.C.B ASS'Y	148.1X197	X1.6 XPC-94HB	1/0	1.000	EA	B	AUT	
	2/01/17	A	CT02-KATHI								
	4	401-136-A	P.C.B MAIN	128	X166	X1.6 XPC-94HB	1/0	1.000	EA	B	AUT
	2/01/17	C	CT02-KATHI								
	4	401-888-A	P.C.B MIC	39	X13	X1.6 XPC-94HB	1/0	1.000	EA	B	AUT
	2/01/17	C	CT02-KATHI								
	4	411-380-A	P.C.B LCD	77	X30	X1.6 XPC-94HB	1/0	1.000	EA	B	AUT
	2/01/17	C	CT02-KATHI								
7	2	538-76M-PM	MP MANUAL ASS'Y				1.000	EA	A		
	1/09/03										
	3	002-103-0Z	FILM RESISTOR	10K	1/ 8W	5% ST	2.000	EA	B	AUT	R461.462
	2/05/29	C	AT02-KATHI								
	3	018-220-5Y	METAL OXIDE RESISTOR	22	1W	5% ST	1.000	EA	B	MAN	R237
	1/10/29	C	CT01-0785								
	3	019-479-8Y	METAL OXIDE RESISTOR	4.7	2W	5% ST	1.000	EA	B	MAN	R207

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3	1/10/29 C	CT01-0782	10	1/ 2W 5% ST MINI	1.000	EA B AUT	R312
	030-100-6Z	FILM RESISTOR					
3	1/09/03		10	1/ 2W 5% ST MINI	1.000	EA B MAN	R225
	030-100-6Z	FILM RESISTOR					
3	1/09/03		4.7K	1/ 2W 5% ST MINI	1.000	EA B AUT	R315
	030-472-2Z	FILM RESISTOR					
3	1/09/03		100KB	SR-085L	1.000	EA B MAN	RV101
	061-110-9Z	RESISTOR SEMIFIXED					
3	1/11/26 C	CT01-0880	2KB	SR-085L	2.000	EA B MAN	RV201.401
	061-205-2Z	RESISTOR SEMIFIXED					
3	2/04/27 C	CT02-0367	20KB	SR-085L	1.000	EA B MAN	RV1
	061-206-3Z	RESISTOR SEMIFIXED					
3	2/04/27 C	CT02-0368	5KB	SR-085L	1.000	EA B MAN	RV102
	061-507-7Z	RESISTOR SEMIFIXED					
3	2/04/26 C	CT02-0364	50KB	SR-085L	1.000	EA B MAN	RV202
	061-508-8Z	RESISTOR SEMIFIXED					
3	1/11/26 C	CT01-0879	200 OHM	15%:KC5B120L	2.000	EA B MAN	TH101.102
	098-201-2	THERMISTOR DISK					
3	1/10/03 C	CT01-KATHI	0.1UF	50V 20% 5X11	1.000	EA B MAN	C433
	100-101-9Y	ELECT CAPACITOR					
3	2/04/03 C	CT02-0281	0.47UF	50V 20% 5X11	1.000	EA B MAN	C903
	100-405-4X	ELECT CAPACITOR					
3	2/04/03 C	CT02-0283	1UF	50V 20% 5X11	5.000	EA B MAN	
	101-006-2Y	ELECT CAPACITOR					
C113.119.153.448.452	2/05/11 C	CT02-0406	10UF	16V SRA(M):4X7	13.000	EA B MAN	
C9.134.232.235.238.239.436.444	2/04/01 C	CT02-0267					
.461.466.467.468.502							
3	101-117-9	ELECT CAPACITOR	1000UF	16V 20% 10X16	4.000	EA B MAN	C11.15.212.213
	2/05/11 C	CT02-0406					
3	101-122-3	ELECT CAPACITOR	100UF	16V 20% 6.3X11	2.000	EA B MAN	C23.237
	2/05/11 C	CT02-0406					
3	102-301-3	ELECT CAPACITOR	220UF	35V 20% 8X12	1.000	EA B MAN	C233
	2/05/11 C	CT02-0406					
3	103-313-9Y	ELECT CAPACITOR	33UF	16V 20% 5X11	1.000	EA B MAN	C206
	1/12/03 C	CT01-0901					
3	103-339-3Y	ELECT CAPACITOR	3.3UF	50V 20% 4X7	1.000	EA B MAN	C222
	2/02/25 C	CT02-0154					
3	104-723-1	ELECT CAPACITOR	470UF	16V 20% 10X12	1.000	EA B MAN	C216
	2/05/11 A	CT02-0406					
3	104-771-4X	ELECT CAPACITOR	47UF	16V 20% 5X11	5.000	EA B MAN	
C111.211.228.437.702	2/01/10 C	CT02-0024					
3	114-708-1	MYLAR CAPACITOR	0.047UF	50V 10% S	1.000	EA B MAN	C135
	2/05/11 A	CT02-0406					
3	130-102-9Y	DISK CERAMIC	0.01UF	HIK(B)F 103Z 50V	3.000	EA B MAN	C256.531.532

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3	2/01/07 C 130-105-2Z DISK CERAMIC	0.1UF	SDD380Y5V104M 50V	3.000 EA B MAN	C17.25.458
3	2/05/11 C 130-118-4Y DISK CERAMIC	0.015UF	X 153M 50V PT	1.000 EA B MAN	C456
3	1/09/03 130-227-9Z DISK CERAMIC	0.022UF	DD350257Y5V223M50V	2.000 EA B MAN	C13.27
3	2/05/11 C 130-405-3Y DISK CERAMIC	0.047UF	X 473M 50V	14.000 EA B MAN	
C18.124,41,3,5.242.314,22,3 2/05/11 C CT02-0406					
3	131-003-8Y DISK CERAMIC	10PF	NPO100D 50V	3.000 EA B MAN	.432,55.14.35.248 C110.303.425
3	2/05/11 C 131-015-9Y DISK CERAMIC	100PF	NPO101K 50V	6.000 EA B MAN	
C250.251.252.318.414.423 2/05/11 C CT02-0406					
3	131-204-3Y DISK CERAMIC	12PF	NPO120K 50V	1.000 EA B MAN	C103
3	2/05/11 C 131-226-3Y DISK CERAMIC	120PF	NPO121J 50V	1.000 EA B MAN	C307
3	2/05/11 A 131-502-2Y DISK CERAMIC	15PF	NPO150K 50V	2.000 EA B MAN	C104.416
3	2/05/11 C 131-510-9Y DISK CERAMIC	150PF	NPO151K 50V	5.000 EA B MAN	
C207.312.317.335.412 2/05/11 C CT02-0406					
3	132-004-4Y DISK CERAMIC	2PF	NPO020D 50V	1.000 EA B MAN	C326
3	1/09/03 132-005-5Y DISK CERAMIC	20PF	NPO200K 50V	4.000 EA B MAN	C114.254.901.902
3	2/05/11 C 132-202-6Y DISK CERAMIC	22PF	NPO220K 50V	1.000 EA B MAN	C413
3	2/01/07 C 132-214-7 DISK CERAMIC	220PF	NPO221K 50V	3.000 EA B MAN	C214.321.338
3	2/05/11 C 132-702-1Y DISK CERAMIC	27PF	NPO270K 50V	1.000 EA B MAN	C415
3	2/05/11 C 133-004-9Y DISK CERAMIC	30PF	NPO300K 50V	2.000 EA B MAN	C255.301
3	2/05/11 C 133-302-8Y DISK CERAMIC	330PF	SL 331K 50V	1.000 EA B MAN	C313
3	2/05/11 C 133-311-0Y DISK CERAMIC	330PF	NPO331K 50V	3.000 EA B MAN	C324.327.334
3	2/05/11 A 133-902-0Y DISK CERAMIC	39PF	NPO390K 50V	2.000 EA B MAN	C21.421
3	2/05/11 C 134-702-1Z DISK CERAMIC	470PF	DD380SL 471K 50V	1.000 EA B MAN	C315
3	2/05/11 C 134-704-3Y DISK CERAMIC	470PF	N750471K 50V	1.000 EA B MAN	C333
3	2/05/11 A 134-708-7Y DISK CERAMIC	47PF	NPO470K 50V	3.000 EA B MAN	C101.117.328
3	2/05/11 C 132-004-4Y DISK CERAMIC				

3	135-602-9Y	DISK CERAMIC	560PF	p13876	SL 561K 50V	1.000	EA	B	MAN	C316
3	2/05/11 A	CT02-0406								
3	135-605-2Y	DISK CERAMIC	56PF		NPO560K 50V	1.000	EA	B	MAN	C337
	2/01/07 A	CT02-KATHI								

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SEQ	LEVEL	PART-NO.	NAME & DESCRIPTION	ECO-NO.	Q'TY	UT	G	KON	OPT	REFERENCE-NO
3	136-004-4Y	DISK CERAMIC	6PF		3.000	EA	B	MAN		C417.422.426
	1/09/03									
3	136-805-1Y	DISK CERAMIC	68PF		1.000	EA	B	MAN		C118
	2/05/11 C	CT02-0406								
3	137-002-7Y	DISK CERAMIC	7PF		1.000	EA	B	MAN		C115
	2/05/11 C	CT02-0406								
3	138-204-8Y	DISK CERAMIC	82PF		2.000	EA	B	MAN		C20.447
	2/05/11 C	CT02-0406								
3	140-103-3	DIP TANTALUM	0.1UF		1.000	EA	B	MAN		C131
	1/10/04 A	CT01-KATHI								
3	141-002-0	DIP TANTALUM	1UF		1.000	EA	B	MAN		C12
	2/05/11 A	CT02-0406								
3	141-012-9Z	DIP TANTALUM	10UF		3.000	EA	B	MAN		C126.133.205
	2/05/11 C	CT02-0406								
3	143-301-0Z	DIP TANTALUM	3.3UF		2.000	EA	B	MAN		C107.108
	1/09/03									
3	172-015-6W	DIP TRIMMER	20PF		1.000	EA	B	MAN		CT201
	2/01/07 C	CT02-0001								
3	196-803-7Z	MYLAR CAPACITOR	0.068UF		1.000	EA	B	MAN		C411
	2/01/07 C	CT02-KATHI								
3	200-040-8	TRANSISTOR	KRC101M:TO-92		10.000	EA	B	MAN		
Q103.104.114.203.403.404.405.	2/05/11 C	CT02-0406								
3	202-023-3X	TRANSISTOR	ST2SC3198G(ECB-M)		13.000	EA	B	MAN		406.417.418
Q3.101.107.109.112.113.204.207	2/06/03 C	CT02-0544								

.211.215.409.415.421		p13876	
3	202-036-5X TRANSISTOR	ST2SA1266G(ECB-M)	7.000 EA B MAN
Q1.115.118.205.208.213.422	2/05/21 C CT02-0490		
3	202-043-1R TRANSISTOR	KTC3192(Y)AT	1.000 EA B MAN
1/09/03			
3	202-060-7 TRANSISTOR	KTC3194(Y)	7.000 EA B MAN
Q102.116.117.301.408.411.412	2/05/11 C CT02-0406		
3	202-068-4 TRANSISTOR	KTK161(GR)	2.000 EA B MAN
1/09/03			
3	202-121-8R TRANSISTOR	KRC110MAT	2.000 EA B MAN
2/05/11 C	CT02-0406		
3	202-122-9 TRANSISTOR	KRC102M	2.000 EA B MAN
1/10/03 A	CT01-KATHI		
3	202-140-5R BRT	KRC111MAT	2.000 EA B MAN
2/05/11 A	CT02-0406		
3	202-184-5R BRT	KRC112MAT	1.000 EA B MAN
1/09/03			
3	204-016-7 TRANSISTOR	2SC2314(E)	1.000 EA B MAN
1/09/03			
3	221-732-1 I.C CPU	S3C8245X66-TWR5	1.000 EA B MAN
2/05/11 A	CT02-0406		
3	222-024-0 I.C OP AMP	KIA4558P	1.000 EA B MAN
1/09/03			
3	241-004-3X DIODE ZENER	1N5237BST	1.000 EA B MAN
1/12/18 C	CT01-0970		
3	241-046-1X DIODE ZENER	1N5231B 5.1V	1.000 EA B MAN
2/05/11 C	CT02-0406		
3	241-091-1 DIODE ZENER	1N5230B:4.7V 0.5W	1.000 EA B MAN
2/05/11 C	CT02-0406		
3	242-001-5R DIODE VARICAP	SVC2515SPA-AC	2.000 EA B MAN
1/10/01 C	CT01-KATHI		
3	243-019-7Z DIODE	1N4148	1.000 EA B AUT
2/05/29 C	AT02-KATHI		
3	244-001-5W DIODE GE	1N60P	1.000 EA B MAN
1/12/18 C	CT01-0975		
3	245-008-7X DIODE RECTIFIER	1N5404	1.000 EA B MAN
2/01/07 C	CT02-0010		
3	245-015-3X DIODE RECTIFIER	1N4004	1.000 EA B MAN
2/01/26 C	CT02-0076		
3	252-284-7 LCD DISPLAY	TCM-3060	1.000 EA B SUB
2/05/11 A	CT02-0406		
3	260-485-5V CRYSTAL HC49U	10.240M -30 30PM 32P	1.000 EA B MAN
2/04/26 C	CT02-0356		
3	262-043-9Y CRYSTAL(HC-49U)	4.5MHZ -30 30PM 16P	1.000 EA B MAN
1/10/26 C	CT01-0738		
3	270-007-0X FILTER CERAMIC	LT455HT	1.000 EA B MAN

QTY	DESCRIPTION	UNIT	PRICE	TOTAL	DATE	STATUS	REMARKS
3	1/11/01 C CT01-0819	RESONATOR CERAMIC	ZTA4.0MG	1.000 EA B MAN	X901		
3	270-131-8W CT02-0450	FILTER CRYSTAL	10L08A WELDING TYPE	1.000 EA B MAN	XF101		
3	271-030-5 1/09/03	TRANSFORMER	EI-28 (OPT)	1.000 EA B MAN	T201		
3	300-024-5Y CT02-0406	TRANSFORMER	EI-19	1.000 EA B MAN	CH501		
3	300-136-3X CT02-0406	COIL RF CHOKE	10UH CORE	1.000 EA B MAN	L601		
3	310-022-6 1/09/03	COIL AXIAL	6.8UH:LAL03TB6R8K	1.000 EA B AUT	L306		
3	310-291-2 1/09/03	COIL SPRING	6X0.8X5.5T:R	1.000 EA B MAN	L308		
3	310-296-7Z CT02-0571	COIL SPRING	2.5X0.8X7T:R	1.000 EA B MAN	L304		
3	310-297-8Z CT02-0567	COIL CHOKE	6UH BOBBIN CORE	1.000 EA B MAN	L201		
3	310-301-8 1/09/03	COIL SPRING	5.2X0.7X7T:R	1.000 EA B MAN	L313		
3	310-347-0Z CT02-0570	COIL AXIAL	1MH:LAL03TB102K	1.000 EA B MAN	L105		
3	310-381-0 1/09/03	COIL SPRING	5X0.6X13.5T:R	1.000 EA B MAN	L307		
3	310-407-1 1/09/03	COIL AXIAL	1.5UH:CESS-1R5K	1.000 EA B MAN	L100		
3	310-621-7Z CT02-0580	COIL SPRING	4X0.5X6T:R	1.000 EA B MAN	L311		
3	310-752-2Y CT02-0568	COIL SPRING	3.4X0.55X8.5T:R	1.000 EA B MAN	L312		
3	310-811-2 2/01/07 C	CT02-KATHI	R4251-AHK7-854462	1.000 EA B MAN	L104		
3	320-276-2Y CT01-0739	COIL IFT	Z73C-359	2.000 EA B MAN	L301.302		
3	320-318-7Z CT02-0406	COIL IFT	10.7MHZ MAX RX	1.000 EA B MAN	L103		
3	320-576-3Z CT01-0740	COIL IFT	37MHZ LKSZ73CO-X000297-0	1.000 EA B MAN	L303		
3	320-577-4Z CT01-KATHI	COIL IFT	15MHZ LKSZ73CO-X000295-0	1.000 EA B MAN	L502		
3	320-579-6Z CT01-0732	COIL IFT	16.5MHZ VCO	1.000 EA B MAN	L501		
3	320-580-6 1/10/03 A	CT01-KATHI	R4251-AHK7-854461	1.000 EA B MAN	L106		
3	320-584-0Z CT01-0734	COIL IFT	27MHZ Z0731-1	1.000 EA B MAN	L101		
3	320-585-1Z CT01-0734	COIL IFT					

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3	1/10/26 C	CT01-0731	27MHZ	LKSZ73CO-X000296-0	1.000	EA	B	MAN	L102
3	321-095-2Z	CT01-0741	ALAN-78	PLUS	1.000	EA	A	SMD	
4	594-083	CB BPF MODULE	100PF	GRM40 COG101J	2.000	EA	B	SMD	C400.409
4	2/01/18 A	CT02-KATHI	150PF	CM21 CG 151J	3.000	EA	B	SMD	C402.404.406
4	131-027-0Y	CHIP CERAMIC	33PF	GRM40 COG330J	1.000	EA	B	SMD	C408
4	1/10/29 C	CT01-0783	47PF	GRM40 COG470J	3.000	EA	B	SMD	C403.405.407
4	131-529-7Z	CHIP CERAMIC	1.5UH:LAL02TB1R5K		1.000	EA	B	MAN	L404
4	94/12/22 A	B94-1222	5.5TX0.45XM5E(R)X2.3	0.17UH	3.000	EA	B	MAN	L401.402.403
4	133-306-2Y	CHIP CERAMIC	32.3X10.8X1.2T	FR4 1/1	1.000	EA	B	SMD	
4	95/03/16 C	B95-0316			1.000	EA	A		
4	134-722-1Y	CHIP CERAMIC			1.000	EA	S	SUB	
4	95/07/31 C	B95-0731							
4	310-621-7	COIL AXIAL							
4	94/12/22 A	B94-1222							
4	310-823-3	CORE SPRING ASS'Y							
4	94/12/22 A	B94-1222							
4	411-985	P.C.B SUB							
8	2/05/24 C	AT02-KATHI							
2	538-76P-A	PACKING ASS'Y							
3	2/01/11 A	CS-HJLEE							
3	504-629	MOLEX RECEPTACLE ASS900MM							
	2/05/13 C	AT02-KATHI							

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SEQ	LEVEL	PART-NO.	ECO-DATE	NAME & DESCRIPTION	ECO-NO.	Q'TY	UT	G	KON	OPT	REFERENCE-NO
3	91B-752	BOX TRAY		SW1S 242(W)X154(D)X50(H)		1.000	EA	B	FIN		
3	2/01/11 A	CS-HJLEE		DW1E 343(W)X260(D)X244(H)		0.167	EA	B	FIN		
3	91B-772-T	BOX OUT		SW1E 244(W)X236(D)X52(H)		1.000	EA	B	FIN		
3	2/01/11 A	CS-HJLEE		P.E 250X350XT0.05		2.000	EA	B	FIN		
3	91B-773-R	BOX INNER									
3	2/01/11 A	CS-HJLEE									
3	922-535-ED	POLYBAG (PRINT)									

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3	2/01/11 A CS-HJLEE	OWNER'S MANUAL	1.000 EA B FIN	
3	937-721 A CS-HJLEE	OWNER'S MANUAL	1.000 EA B FIN	
3	940-171 A CS-HJLEE	CARD WARNING	2.000 EA B FIN	
3	95A-171 A CS-HJLEE	POLYESTER &17	1.000 EA B FIN	
3	95A-171 A CS-HJLEE	ART PAPER 80X52	1.000 EA B FIN	
3	95A-447 A CS-HJLEE	POLYESTER 40X27	1.000 EA B FIN	
3	95B-009 A CS-HJLEE		1.000 EA B FIN	
3	950-040 A CS-HJLEE	LABEL NEGATIVE	1.000 EA B FIN	
3	953-750 A CS-HJLEE	LABEL CAUTION 2A 40X28XT0.02	1.000 EA B FIN	
3	954-267-A A CS-HJLEE	PAPER 40X12	1.000 EA B FIN	
9 2	538-76W-FB WIRE FRONT BODY ASSY		1.000 EA A	
3	427-045-6 WIRE	1007 AWG 26(7/0.16) YEL	0.180 ME B MAN	SP(+)--MP SP(+)
3	427-046-7 WIRE	1007 AWG 26(7/0.16) GRN	0.180 ME B MAN	0.5:0.5 SP(-)--MP SP(-)
10 2	538-76W-MA WIRE MIC ASS'Y		1.000 EA A	0.5:0.5
3	427-045-6 WIRE	1007 AWG 26(7/0.16) YEL	0.050 ME B SUB	PCB
MIC(+)--CONDENSER MIC(+)	1/09/03		0.050 ME B SUB	0.5:0.5 PCB
3	427-046-7 WIRE	1007 AWG 26(7/0.16) GRN	1.000 EA A	0.5:0.5
MIC(-)--CONDENSER MIC(-)	1/09/03		0.110 ME B SUB	GND C10---GND C212
11 2	538-76W-MP WIRE MAIN PCB ASS'Y		0.120 ME B MAN	1.5:1.5 WJ2 --- WJ1
3	427-001-6 WIRE	1007 AWG 24(1/0.51) BLK	0.250 ME B MAN	1.5:1.5 J2---J2
3	427-002-7 WIRE	1007 AWG 24 (1/0/51) BRN	0.080 ME B MAN	1.5:1.5 J23 --- J24
3	427-003-8 WIRE	1007 AWG 24(1/0.51)RED		
3	427-004-9 WIRE	1007 AWG 24 (1/0.51) ORG		
2/05/11 A CT02-0406				

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3	427-005-0	WIRE	1007	AWG 24 (1/0.51)	YEL	0.220	ME B	MAN	0.5:0.5
	2/01/10 C	CT02-KATHI							J1---J1
3	427-006-1	WIRE	1007	AWG 24 (1/0.51)	GRN	0.180	ME B	MAN	1.5:1.5
	2/01/10 C	CT02-KATHI							J3---J3
3	427-007-2	WIRE	1007	AWG 24 (1/0.51)	BLU	0.090	ME B	MAN	1.5:1.5
	2/01/10 C	CT02-KATHI							A1---A
3	427-008-3	WIRE	1007	AWG 24 (1/0.51)	VIO	0.200	ME B	MAN	1.5:1.5
	2/01/10 C	CT02-KATHI							J6---J6
3	427-009-4	WIRE	1007	AWG 24(1/0.51)	GRY	0.110	ME B	MAN	1.5:1.5
	2/01/10 C	CT02-KATHI							J17---J11
3	427-010-4	WIRE	1007	AWG 24(1/0.51)	WHT	0.290	ME B	MAN	1.5:1.5
	2/01/10 C	CT02-KATHI							J4---J4
									1.5:1.5

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Q'TY UT G KON OPT REFERENCE-NO

SEQ LEVEL PART-NO. NAME & DESCRIPTION

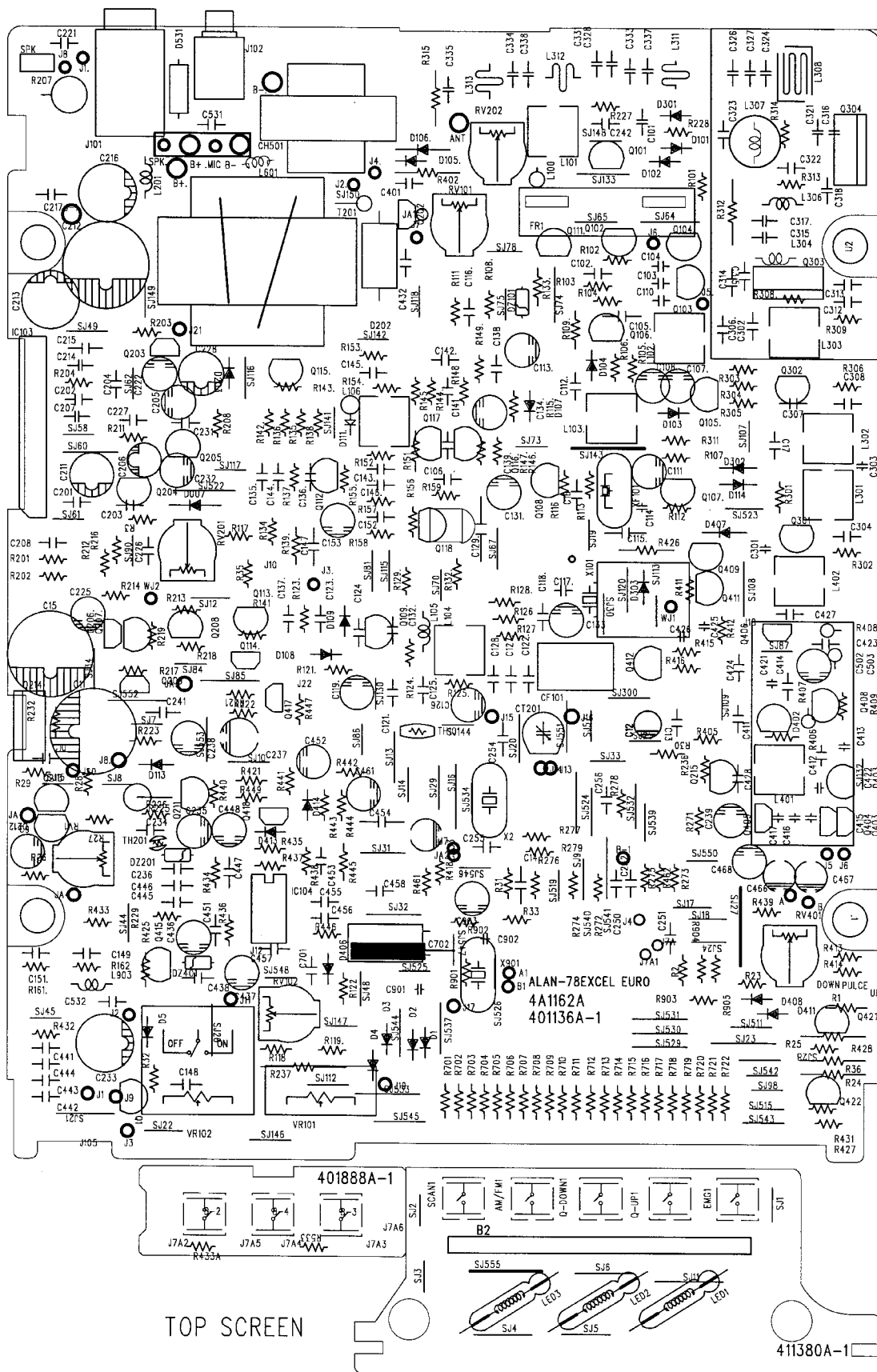
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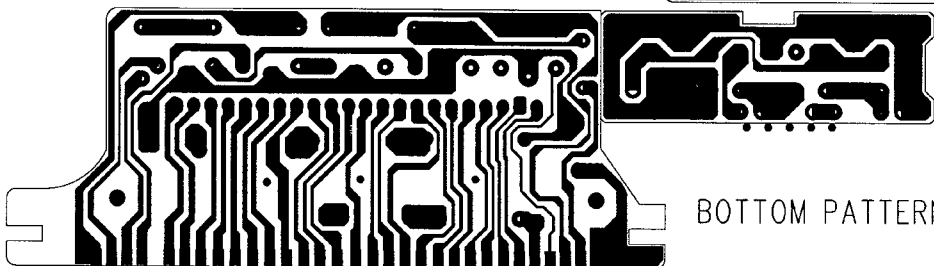
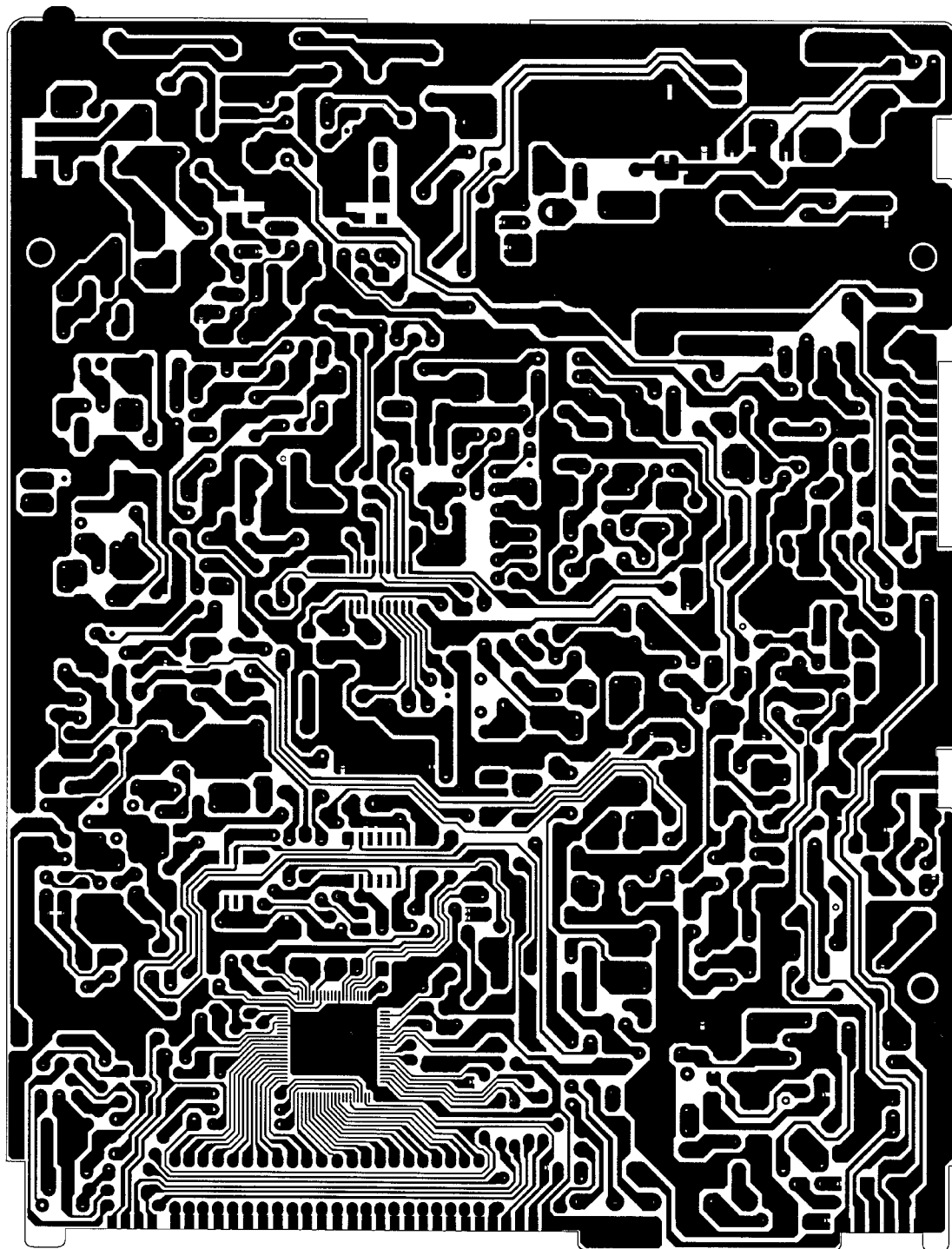
12	2	538-76S-MA	SUB MATERIAL ASS'Y	1.000	EA	A
		1/09/03				
3		427-174-9	WIRE STRIP	20.000	GR	B
		1/09/03				
3		960-274	TUBE UL/CSA KEIT-30 AWG 12 (2&) CLEAR VINYL	0.050	ME	B
		1/09/03				
3		964-140	TUBE GLASS WOOL 6&	0.300	ME	B
		1/09/03				
3		964-159	TUBE GLASS WOOL 0.8&	0.400	ME	B
		1/09/03				
3		965-002	TAPE SCOTCH 10M/M (0.010X25M)	0.100	ME	B

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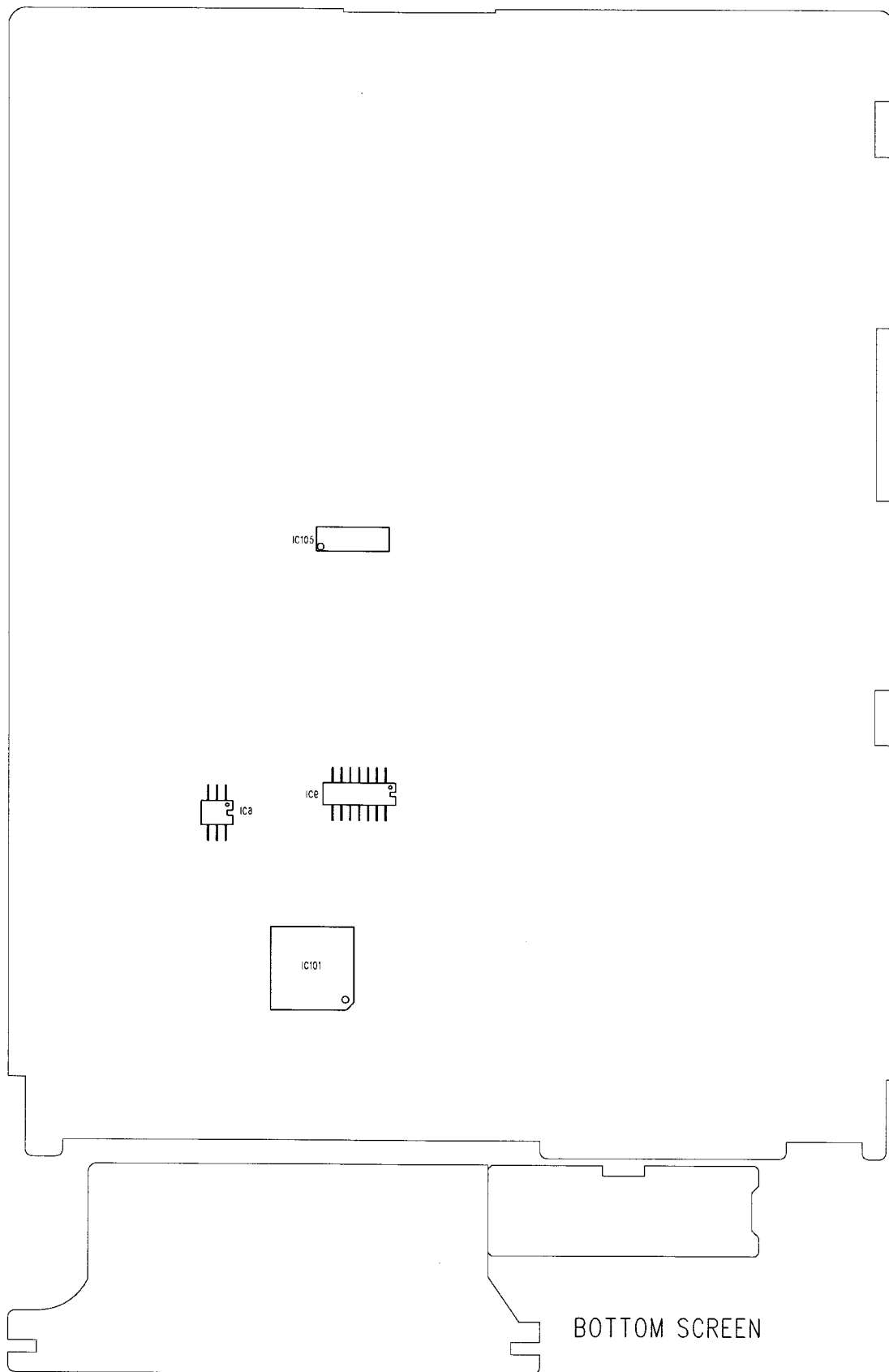
3	1/09/03	965-020	TAPE SCOTCH	15M/M (0.015X20M)	0.250 ME B
3	1/09/03	965-039	TAPE PACKING	OPP (0.05X50M)	0.500 ME B
3	1/09/03	965-048	TAPE PACKING	O.P.P.(0.05X25M) IVORY	0.150 ME B
3	1/09/03	965-057	TAPE MASKING	4MM (0.004X50M)	0.150 ME B
3	1/09/03	966-007	SOLDER BAR	63:37	20.000 GR B
3	1/09/03	966-016	SOLDER ROSIN CO.WIRE60:40	0.04"-0.05"	13.000 GR B
3	1/09/03	966-025	FLUX ROSIN		8.000 GR B
3	1/09/03	966-034	THINNER FOR FLUX		8.000 GR B
3	1/09/03	966-061	SILICON GREASE	YG-6111 OR XG-6111	0.020 GR B
3	1/09/03	967-002	STAVILIZER MATERIAL		10.000 GR B
3	1/09/03	967-011	BOND #201		1.000 KG B
3	1/09/03	967-039	BOND #609	#609	5.000 GR B
3	1/09/03	967-057	WAX MICRO		5.000 GR B
3	1/09/03	967-066	WAX POLY	3.6L	0.080 GR B
3	1/09/03	967-118	ANTISTATIC OIL		0.500 GR B
3	1/09/03	967-163	TIE WIRE	VINYL 1.2 DIA	0.400 ME B

* TOTAL RECORD = 317





BOTTOM PATTERN



Alan78 Explode Partlist

NO.	Part Number	Name & Description	Q'ty	Remark
1.	420-128-4	SPEAKER	1	
2.	633-082	(+)TAP TITE SCREW	9	
3.	719-062	COVER BOTTOM	1	
4.	719-063	COVER UPPER	1	
5.	730-015-A	HOLDER(SPK)	3	
6.	901-226	FELT	1	
7.	611-095	(+)MACHINE SCREW	4	
8.	621-168	(+)TAPPING SCREW	2	
9.	801-290-J	E.S.C	1	
10.	813-923-A	LENS	1	
11.	826-143	KNOB VOL	2	
12.	826-144	KNOB CH	1	
13.	895-097	PUSH BUTTON	1	
14.	401-994-B	P.C.B SUB UP/DOWN	1	
15.	411-979	P.C.B JACK	1	
16.	420-705-1Z	JACK DC	1	
17.	420-726-3	JACK CONNECTOR	1	
18.	421-046-7	CONNECTOR	1	
19.	421-643-6A	CONNECTOR SOCKET	1	
20.	429-266-9Z	FLAT CABLE	1	
21.	430-049-8Y	SW ROTARY	1	
22.	440-004-0	MICA	1	
23.	450-424-9V	VR	1	
24.	450-622-1	VR	1	
25.	504-892	MOLEX PLUG ASS'Y	1	
26.	613-332	(+)MACHINE SCREW	3	
27.	623-265	(+)TAPPING SCREW	4	
28.	651-024	NUT	3	
29.	662-305	WASHER (SPRING)	3	
30.	702-425	BODY MAIN	1	
31.	719-119-A	HOUSING LCD	1	
32.	732-560	HOLDER(ANT MTG)	1	
33.	750-039-A	CORD STOPPER	1	
34.	760-705	HEAT SINK	1	
35.	771-525	SHIELD HOUSING	1	
36.	771-530	SHIELD PLATE	1	
37.	771-710-A	SHIELD PLATE	1	
38.	772-239	SHIELD PLATE(ESD)	1	
39.	772-594	SHIELD PLATE	1	
40.	795-697	PLATE BACK	1	
41.	853-105	BUSHING	2	
42.	901-794-A	FELT	1	
43.	903-980	FELT	4	
44.	905-685-A	INSULATION PLATE	1	
45.	251-224-8Z	PILOT LAMP	3	
46.	436-059-7	SW TACT	5	
47.	401-136-A	P.C.B MAIN	1	
48.	411-380-A	P.C.B LCD	1	
49.	252-284-7	LCD DISPLAY	1	
50.	891-590	SPONG STICK.	1	
51.	95B-009	LABEL NAME	1	
52.	202-057-5	KTC2078 Q304	1	
53.	202-066-2	KTC1367 Q214	1	
54.	222-006-4	KIA7217AP IC103	1	

