

2.5 Parts List

See following pages.

P a r t s L i s t

Model AR8200

Issued on February 20, 1998

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
C101	Ceramic Capacitor	0.1uF (B)	
C102	Ceramic Capacitor	0.1uF (F)	
C103	Ceramic Capacitor	0.1uF (F)	
C104	Ceramic Capacitor	0.1uF (B)	
C105	Ceramic Capacitor	0.01uF	
C106	Ceramic Capacitor	47PF	
C107	Ceramic Capacitor	47PF	
C108	Ceramic Capacitor	47PF	
C109	Ceramic Capacitor	0.01uF	
C110	Ceramic Capacitor	0.001uF	
C111	Ceramic Capacitor	0.01uF	
C112	Ceramic Capacitor	2PF	
C113	Ceramic Capacitor	0.001uF	
C115	Ceramic Capacitor	0.01uF	
C117	Ceramic Capacitor	0.001uF	
C118	Ceramic Capacitor	0.001uF	
C119	Ceramic Capacitor	2PF	
C120	Ceramic Capacitor	0.001uF	
C121	Ceramic Capacitor	0.001uF	
C122	Ceramic Capacitor	0.001uF	
C123	Ceramic Capacitor	10PF	
C124	Ceramic Capacitor	4PF	
C125	Ceramic Capacitor	10PF	
C126	Ceramic Capacitor	0.001uF	
C127	Ceramic Capacitor	0.001uF	
C128	Ceramic Capacitor	8PF	
C129	Ceramic Capacitor	5PF	
C130	Ceramic Capacitor	8PF	
C131	Ceramic Capacitor	0.001uF	
C132	Ceramic Capacitor	100PF	
C133	Ceramic Capacitor	5PF	
C134	Ceramic Capacitor	4PF	
C135	Ceramic Capacitor	5PF	
C136	Ceramic Capacitor	100PF	
C137	Ceramic Capacitor	3PF	
C138	Ceramic Capacitor	2PF	
C139	Ceramic Capacitor	2PF	
C140	Ceramic Capacitor	3PF	
C141	Ceramic Capacitor	100PF	
C142	Ceramic Capacitor	0.001uF	
C143	Ceramic Capacitor	0.01uF	
C144	Ceramic Capacitor	0.001uF	
C145	Ceramic Capacitor	0.1uF (F)	
C146	Ceramic Capacitor	0.01uF	
C147	Ceramic Capacitor	0.001uF	
C148	Ceramic Capacitor	0.001uF	
C149	Ceramic Capacitor	0.001uF	
C150	Ceramic Capacitor	100PF	
C151	Ceramic Capacitor	0.01uF	
C152	Ceramic Capacitor	0.01uF	
C153	Ceramic Capacitor	0.01uF	

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
C154	Ceramic Capacitor	2200PF	
C155	Ceramic Capacitor	4700PF	
C156	Ceramic Capacitor	330PF	
C157	Ceramic Capacitor	3900PF	
C158	Ceramic Capacitor	2200PF	
C159	Ceramic Capacitor	0.1uF (F)	
C160	Ceramic Capacitor	0.1uF (B)	
C161	Ceramic Capacitor	2200PF	
C162	Ceramic Capacitor	2200PF	
C163	Ceramic Capacitor	0.1uF (F)	
C164	Ceramic Capacitor	0.1uF (F)	
C165	Ceramic Capacitor	180PF	
C166	Ceramic Capacitor	270PF	
C167	Ceramic Capacitor	180PF	
C168	Ceramic Capacitor	0.1uF (F)	
C169	Ceramic Capacitor	220PF	
C170	Ceramic Capacitor	0.1uF (F)	
C171	Ceramic Capacitor	0.1uF (B)	
C172	Ceramic Capacitor	0.1uF (B)	
C173	Ceramic Capacitor	0.01uF	
C174	Ceramic Capacitor	0.1uF (F)	
C175	Ceramic Capacitor	0.001uF	
C176	Ceramic Capacitor	0.001uF	
C177	Ceramic Capacitor	0.001uF	
C178	Ceramic Capacitor	100PF	
C180	Ceramic Capacitor	0.001uF	
C181	Ceramic Capacitor	0.001uF	
C182	Ceramic Capacitor	100PF	
C183	Ceramic Capacitor	100PF	
C184	Ceramic Capacitor	4PF	
C185	Ceramic Capacitor	4PF	
C186	Ceramic Capacitor	10PF	
C187	Ceramic Capacitor	470PF	
C188	Ceramic Capacitor	470PF	
C189	Ceramic Capacitor	47PF	
C190	Ceramic Capacitor	0.001uF	
C191	Ceramic Capacitor	0.001uF	
C192	Ceramic Capacitor	0.001uF	
C194	Ceramic Capacitor	0.01uF	
C195	Ceramic Capacitor	100PF	
C196	Ceramic Capacitor	0.001uF	
C197	Ceramic Capacitor	0.1uF (F)	
C198	Ceramic Capacitor	0.001uF	
C199	Tantalum Capacitor	10uF/10V	
C201	Ceramic Capacitor	0.01uF	
C202	Tantalum Capacitor	10uF/10V	
C203	Tantalum Capacitor	0.47uF/35V	
C204	Ceramic Capacitor	0.001uF	
C205	Tantalum Capacitor	0.47uF/35V	
C206	Tantalum Capacitor	1uF/50V	
C208	Ceramic Capacitor	0.01uF	

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
C209	Ceramic Capacitor	0.001uF	
C210	Ceramic Capacitor	100PF	
C211	Ceramic Capacitor	0.001uF	
C212	Ceramic Capacitor	0.001uF	
C213	Ceramic Capacitor	0.001uF	
C214	Tantalum Capacitor	0.47uF/35V	
C215	Tantalum Capacitor	0.47uF/35V	
C216	Ceramic Capacitor	0.001uF	
C217	Tantalum Capacitor	2.2uF/16V	
C218	Tantalum Capacitor	2.2uF/16V	
C219	Ceramic Capacitor	0.022uF	
C220	Ceramic Capacitor	0.001uF	
C221	Ceramic Capacitor	0.1uF (F)	
C222	Ceramic Capacitor	5PF	
C223	Ceramic Capacitor	100PF	
C224	Ceramic Capacitor	100PF	
C225	Tantalum Capacitor	33uF/6.3V	
C226	Ceramic Capacitor	0.001uF	
C227	Ceramic Capacitor	0.001uF	
C228	Ceramic Capacitor	0.001uF	
C229	Ceramic Capacitor	0.001uF	
C230	Ceramic Capacitor	0.001uF	
C231	Ceramic Capacitor	0.001uF	
C232	Ceramic Capacitor	0.001uF	
C233	Ceramic Capacitor	0.01uF	
C234	Tantalum Capacitor	10uF/10V	
C235	Ceramic Capacitor	2PF	
C236	Ceramic Capacitor	47PF	
C237	Ceramic Capacitor	3PF	
C238	Ceramic Capacitor	4PF	
C239	Ceramic Capacitor	0.01uF	
C240	Ceramic Capacitor	3PF	
C241	Ceramic Capacitor	15PF	
C242	Ceramic Capacitor	0.01uF	
C243	Ceramic Capacitor	22PF	
C244	Ceramic Capacitor	22PF	
C245	Ceramic Capacitor	3PF	
C246	Ceramic Capacitor	0.01uF	
C247	Ceramic Capacitor	0.01uF	
C250	Ceramic Capacitor	100PF	
C251	Ceramic Capacitor	220PF	
C252	Ceramic Capacitor	0.1uF (F)	
C253	Ceramic Capacitor	0.1uF (F)	
C254	Ceramic Capacitor	5PF	
C255	Ceramic Capacitor	1PF	
C271	Ceramic Capacitor	0.1uF (F)	
C272	Ceramic Capacitor	0.1uF (F)	
C276	Ceramic Capacitor	0.001uF	
C277	Ceramic Capacitor	0.001uF	

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RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
IC101	Shift Register IC	TC74HC4094	
IC102	Shift Register IC	TC74HC4094	
IC103	RF amplifier IC	uPC2749T	
IC104	RF mixer IC	uPC2757T	
IC105	RF mixer IC	uPC2757T	
IC106	RF amplifier IC	uPC2749T	
IC107	PLL IC	MB15F04	
IC108	RF amplifier IC	uPC2749T	
IC109	Analog Switch IC	TC4S66F	
IC110	Analog Switch IC	TC4S66F	
IC111	Inverter IC	TC7SU04F	
J102	2pin Connector	9230B-1-02Z009-T	
J103	2pin Connector	9230B-1-02Z009-T	
J104	22pin Connector	9820S-22D-GF	
L101	Chip Inductor	0.22uH	
L102	Chip Inductor	0.22uH	
L103	Chip Inductor	0.22uH	
L104	Chip Inductor	0.22uH	
L105	Chip Inductor	0.22uH	
L106	Chip Inductor	82nH	
L107	Chip Inductor	82nH	
L108	Chip Inductor	33nH	
L109	Chip Inductor	0.1uH	
L110	Chip Inductor	33nH	
L111	Chip Inductor	22nH	
L112	Chip Inductor	33nH	
L113	Chip Inductor	22nH	
L114	Chip Inductor	10nH	
L115	Chip Inductor	10nH	
L116	Chip Inductor	10nH	
L117	Chip Inductor	5.6nH	
L118	Chip Inductor	5.6nH	
L119	Chip Inductor	5.6nH	
L120	Chip Inductor	0.33uH	
L121	Chip Inductor	22nH	
L122	Chip Inductor	4.7uH	
L123	Chip Inductor	4.7uH	
L124	Chip Inductor	4.7uH	
L125	Chip Inductor	3.3uH	
L126	Chip Inductor	0.47uH	
L127	Chip Inductor	3.3uH	
L128	Chip Inductor	0.33uH	
L129	Chip Inductor	0.33uH	
L130	RF Transformer	SMD-0483	
L131	RF Transformer	SMD-0483	
L132	Chip Inductor	22nH	
L133	Chip Inductor	22nH	
L134	Chip Inductor	68nH	
L135	Chip Inductor	68nH	

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
L136	Chip Inductor	0.1uH	
L137	Chip Inductor	0.33uH	
L138	Chip Inductor	22nH	
L139	Chip Inductor	0.1uH	
L140	Chip Inductor	47nH	
L141	Chip Inductor	47nH	
L142	Chip Inductor	22nH	
L143	Chip Inductor	22nH	
R101	Chip Resistor	1K ohm	
R102	Chip Resistor	470 ohm	
R103	Chip Resistor	2.2K ohm	
R104	Chip Resistor	18 ohm	
R105	Chip Resistor	33 ohm	
R106	Chip Resistor	33 ohm	
R107	Chip Resistor	1K ohm	
R108	Chip Resistor	1K ohm	
R109	Chip Resistor	1K ohm	
R110	Chip Resistor	1K ohm	
R111	Chip Resistor	1K ohm	
R112	Chip Resistor	100K ohm	
R113	Chip Resistor	100K ohm	
R114	Chip Resistor	100K ohm	
R115	Chip Resistor	100K ohm	
R116	Chip Resistor	1K ohm	
R117	Chip Resistor	1K ohm	
R118	Chip Resistor	100K ohm	
R119	Chip Resistor	100K ohm	
R120	Chip Resistor	100K ohm	
R121	Chip Resistor	100K ohm	
R122	Chip Resistor	1K ohm	
R123	Chip Resistor	1K ohm	
R124	Chip Resistor	1K ohm	
R125	Chip Resistor	1K ohm	
R126	Chip Resistor	1K ohm	
R127	Chip Resistor	1K ohm	
R128	Chip Resistor	1K ohm	
R129	Chip Resistor	1K ohm	
R130	Chip Resistor	1K ohm	
R131	Chip Resistor	1K ohm	
R132	Chip Resistor	39K ohm	
R133	Chip Resistor	47 ohm	
R134	Chip Resistor	22 ohm	
R135	Chip Resistor	39K ohm	
R136	Chip Resistor	22 ohm	
R137	Chip Resistor	33 ohm	
R138	Chip Resistor	2.2K ohm	
R139	Chip Resistor	1K ohm	
R140	Chip Resistor	33 ohm	
R141	Chip Resistor	1K ohm	
R142	Chip Resistor	2.2K ohm	

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
R143	Chip Resistor	470 ohm	
R144	Chip Resistor	2.2K ohm	
R145	Chip Resistor	2.2K ohm	
R146	Chip Resistor	1K ohm	
R147	Chip Resistor	47K ohm	
R148	Chip Resistor	220K ohm	
R149	Chip Resistor	1K ohm	
R150	Chip Resistor	47K ohm	
R151	Chip Resistor	47K ohm	
R152	Chip Resistor	22 ohm	
R153	Chip Resistor	22 ohm	
R154	Chip Resistor	1K ohm	
R155	Chip Resistor	100 ohm	
R156	Chip Resistor	1K ohm	
R157	Chip Resistor	1K ohm	
R158	Chip Resistor	1K ohm	
R159	Chip Resistor	1K ohm	
R160	Chip Resistor	1K ohm	
R161	Chip Resistor	1K ohm	
R162	Chip Resistor	39K ohm	
R163	Chip Resistor	22 ohm	
R164	Chip Resistor	100 ohm	
R165	Chip Resistor	220 ohm	
R166	Chip Resistor	0 ohm	
R167	Chip Resistor	100 ohm	
R169	Chip Resistor	22 ohm	
R170	Chip Resistor	47K ohm	
R171	Chip Resistor	22 ohm	
R172	Chip Resistor	220 ohm	
R173	Chip Resistor	10K ohm	
R174	Chip Resistor	1K ohm	
R175	Chip Resistor	10K ohm	
R176	Chip Resistor	2.2K ohm	
R177	Chip Resistor	1K ohm	
R178	Chip Resistor	1K ohm	
R179	Chip Resistor	10K ohm	
R180	Chip Resistor	10K ohm	
R181	Chip Resistor	1K ohm	
R182	Chip Resistor	2.2K ohm	
R183	Chip Resistor	1K ohm	
R184	Chip Resistor	1M ohm	
R185	Chip Resistor	470 ohm	
R186	Chip Resistor	100K ohm	
R187	Chip Resistor	33K ohm	
R188	Chip Resistor	33K ohm	
R189	Chip Resistor	22K ohm	
R190	Chip Resistor	22K ohm	
R191	Chip Resistor	33K ohm	
R192	Chip Resistor	33K ohm	
R193	Chip Resistor	33K ohm	
R194	Chip Resistor	22K ohm	

RF PWB (82-01A)

Symbol No.	Part Name	Description	Remarks
R195	Chip Resistor	22K ohm	
R196	Chip Resistor	22K ohm	
R199	Ceramic Capacitor	5PF	
R200	Chip Resistor	100 ohm	
R201	Chip Resistor	10K ohm	
R202	Chip Resistor	3.3K ohm	
R203	Chip Resistor	1K ohm	
R204	Chip Resistor	10K ohm	
R205	Chip Resistor	10K ohm	
R206	Chip Resistor	10K ohm	
R207	Chip Resistor	1K ohm	
R208	Chip Resistor	22 ohm	
R209	Chip Resistor	10 ohm	
R210	Chip Resistor	10K ohm	
R211	Chip Resistor	10K ohm	
R212	Chip Resistor	10K ohm	
R213	Chip Resistor	1K ohm	
R214	Chip Resistor	22 ohm	
R215	Chip Resistor	10 ohm	
R216	Chip Resistor	100 ohm	
R220	Chip Resistor	220 ohm	
R221	Chip Resistor	22 ohm	
R222	Chip Resistor	47 ohm	
R223	Chip Resistor	47 ohm	
R250	Chip Resistor	10K ohm	
R251	Chip Resistor	0 ohm	
R252	Chip Resistor	33K ohm	
R253	Chip Resistor	1K ohm	
R254	Chip Resistor	100 ohm	
R255	Chip Resistor	1K ohm	
R256	Chip Resistor	100 ohm	
R257	Chip Resistor	47 ohm	
TR101	Transistor	2SC2714Y	
TR102	Transistor	2SC4094(R37)	
TR103	Transistor	2SC4094(R37)	
TR104	Transistor	2SC3123	
TR105	Transistor	2SC3123	
TR107	Transistor	2SC4094(R37)	
TR108	Transistor	2SC3356(R24)	
TR109	Transistor	2SC4116GR	
TR110	Transistor	2SC4116GR	
TR111	Transistor	2SC4116GR	
TR112	Transistor	2SC4116GR	
TR113	Digital Transistor	RN1408	
TR114	Transistor	2SC3356(R24)	
TR115	Transistor	2SC3356(R24)	
TR116	Digital Transistor	DTB123YK	
TR117	Digital Transistor	RN1408	
TR118	Digital Transistor	DTB123YK	
TR119	Digital Transistor	RN1408	

[illegible]

IF PWB (82-02A)

Symbol No.	Part Name	Description	Remarks
C303	Ceramic Capacitor	0.001uF	
C304	Ceramic Capacitor	0.001uF	
C305	Ceramic Capacitor	3PF	
C306	Ceramic Capacitor	0.001uF	
C307	Ceramic Capacitor	0.01uF	
C308	Ceramic Capacitor	0.001uF	
C309	Ceramic Capacitor	0.1uF (F)	
C310	Ceramic Capacitor	0.001uF	
C311	Ceramic Capacitor	33PF	
C312	Ceramic Capacitor	0.001uF	
C313	Ceramic Capacitor	33PF (UJ)	
C314	Ceramic Capacitor	10PF (UJ)	
C315	Ceramic Capacitor	0.1uF (F)	
C316	Ceramic Capacitor	100PF	
C317	Ceramic Capacitor	100PF	
C318	Tantalum Capacitor	10uF/10V	
C319	Ceramic Capacitor	0.001uF	
C320	Ceramic Capacitor	0.01uF	
C321	Ceramic Capacitor	0.001uF	
C322	Ceramic Capacitor	0.022uF	
C324	Tantalum Capacitor	10uF/10V	
C325	Ceramic Capacitor	0.001uF	
C326	Ceramic Capacitor	33PF	
C327	Ceramic Capacitor	1PF	
C328	Ceramic Capacitor	0.01uF	
C329	Ceramic Capacitor	0.01uF	
C330	Ceramic Capacitor	0.01uF	
C331	Tantalum Capacitor	10uF/10V	
C332	Ceramic Capacitor	0.1uF (F)	
C333	Tantalum Capacitor	10uF/10V	
C334	Tantalum Capacitor	10uF/10V	
C335	Ceramic Capacitor	0.001uF	
C336	Tantalum Capacitor	10uF/10V	
C337	Ceramic Capacitor	22PF	
C338	Ceramic Capacitor	12PF	
C339	Ceramic Capacitor	0.01uF	
C340	Ceramic Capacitor	47PF (UJ)	
C341	Ceramic Capacitor	47PF (UJ)	
C342	Ceramic Capacitor	0.01uF	
C343	Ceramic Capacitor	0.1uF (F)	
C344	Ceramic Capacitor	0.022uF	
C345	Tantalum Capacitor	1uF/6.3V	
C346	Ceramic Capacitor	0.001uF	
C347	Tantalum Capacitor	4.7uF/6.3V	
C348	Tantalum Capacitor	1uF/6.3V	
C349	Ceramic Capacitor	220PF	
C350	Ceramic Capacitor	0.001uF	
C351	Ceramic Capacitor	0.1uF (B)	
C352	Ceramic Capacitor	0.1uF (B)	
C353	Ceramic Capacitor	0.1uF (B)	
C354	Ceramic Capacitor	0.1uF (F)	

IF PWB (82-02A)

Symbol No.	Part Name	Description	Remarks
C355	Ceramic Capacitor	0.1uF (F)	
C356	Ceramic Capacitor	0.1uF (F)	
C357	Ceramic Capacitor	0.001uF	
C358	Tantalum Capacitor	10uF/10V	
C359	Ceramic Capacitor	0.001uF	
C360	Ceramic Capacitor	0.001uF	
C361	Ceramic Capacitor	10PF	
C362	Ceramic Capacitor	0.01uF	
C363	Ceramic Capacitor	0.001uF	
C364	Ceramic Capacitor	0.001uF	
C365	Ceramic Capacitor	0.001uF	
C366	Ceramic Capacitor	0.01uF	
C367	Ceramic Capacitor	0.001uF	
C368	Ceramic Capacitor	0.01uF	
C369	Ceramic Capacitor	220PF	
C370	Ceramic Capacitor	0.01uF	
C371	Ceramic Capacitor	470PF	
C372	Ceramic Capacitor	47PF	
C373	Ceramic Capacitor	0.0033uF	
C374	Ceramic Capacitor	0.001uF	
C375	Ceramic Capacitor	0.1uF (F)	
C376	Ceramic Capacitor	0.1uF (F)	
C377	Ceramic Capacitor	0.001uF	
C379	Ceramic Capacitor	0.1uF (B)	
C380	Ceramic Capacitor	0.0047uF	
C381	Ceramic Capacitor	0.01uF	
C383	Electrolytic Capacitor	22uF/16V	
C384	Ceramic Capacitor	0.022uF	
C385	Electrolytic Capacitor	10uF/35V	
C386	Ceramic Capacitor	0.001uF	
C394	Ceramic Capacitor	100PF	
C395	Ceramic Capacitor	0.01uF	
C396	Ceramic Capacitor	33PF	
C397	Ceramic Capacitor	0.001uF	
C398	Ceramic Capacitor	0.01uF	
C399	Ceramic Capacitor	0.022uF	
C400	Ceramic Capacitor	0.1uF (F)	
C401	Ceramic Capacitor	0.1uF (F)	
C402	Ceramic Capacitor	0.1uF (F)	
C403	Ceramic Capacitor	0.1uF (F)	
C404	Ceramic Capacitor	0.1uF (F)	
D301	Diode	HVM132WK	
D302	Diode	HVU131	
D303	Vari-Cap Diode	KV1470	
D304	Diode	MA721	
D305	Diode	HVU131	
D306	Diode	HVU131	
D307	Diode	HVU131	
D308	Diode	HVU131	
D309	Diode	HVU131	

IF PWB (82-02A)

Symbol No.	Part Name	Description	Remarks
D310	Diode	HVU131	
D311	Diode	HVU131	
D312	Diode	HVU131	
D313	Diode	1SS319	
D314	Diode	1SS319	
D315	Diode	1SS226	
D316	Diode	HVU131	
DS301	Discriminator	CDBC455CX24	
DS302	Discriminator	CDAC10.7MG1-A	
F301	Crystal Filter	45M30B	
F302	Crystal Filter	45M30B	
F303	Ceramic Filter	CFUCG455F	
F304	Ceramic Filter	CFUCG455G	
F305	Ceramic Filter	CFX455J	
F306	Ceramic Filter	SFECA10.7MJ-Z	
IC301	Shift Register IC	TC74HC4094	
IC302	NFM IF system IC	TA31136FN	
IC303	WFM/AM IF system IC	CXA1611N	
IC304	Analog Switch IC	BU4066BCFV	
IC305	OP amplifier IC	NJM2904	
IC306	OP amplifier IC	uPC358G2	
IC309	28V DC-DC converter IC	TK11818	
J301	22pin Connector	9823B-22D-GF	
J302	FPC 30pin connector	FH12-30S-0.5SH	
L301	RF transformer	SMD-0364	
L302	RF transformer	SMD-0363	
L303	Chip Inductor	1uH	
L304	Chip Inductor	1uH	
L306	Chip Inductor	1uH	
L307	Choke Coil	SMD-0482	
L308	Chip Inductor	1mH	
R304	Chip Resistor	1K ohm	
R305	Chip Resistor	1K ohm	
R306	Chip Resistor	820 ohm	
R307	Chip Resistor	220K ohm	
R308	Chip Resistor	100 ohm	
R309	Chip Resistor	1K ohm	
R310	Chip Resistor	100K ohm	
R311	Chip Resistor	10K ohm	
R312	Chip Resistor	470K ohm	
R313	Chip Resistor	3.3K ohm	
R314	Chip Resistor	47K ohm	
R315	Chip Resistor	47K ohm	
R317	Chip Resistor	2.2K ohm	
R318	Chip Resistor	4.7K ohm	

IF PWB (82-02A)

Symbol No.	Part Name	Description	Remarks
R319	Chip Resistor	1K ohm	
R320	Chip Resistor	10K ohm	
R321	Chip Resistor	1K ohm	
R322	Chip Resistor	3.3K ohm	
R324	Chip Resistor	100 ohm	
R325	Chip Resistor	100 ohm	
R326	Chip Resistor	220 ohm	
R327	Chip Resistor	100 ohm	
R328	Chip Resistor	1K ohm	
R329	Chip Resistor	470K ohm	
R330	Chip Resistor	1K ohm	
R331	Chip Resistor	47 ohm	
R332	Chip Resistor	100K ohm	
R333	Chip Resistor	-	
R334	Chip Resistor	68K ohm	
R335	Chip Resistor	-	
R336	Chip Resistor	0 ohm	
R337	Chip Resistor	10K ohm	
R338	Chip Resistor	22K ohm	
R339	Chip Resistor	4.7K ohm	
R340	Chip Resistor	33K ohm	
R341	Chip Resistor	470K ohm	
R342	Chip Resistor	0 ohm	
R343	Chip Resistor	1M ohm	
R344	Chip Resistor	220K ohm	
R345	Chip Resistor	120K ohm	
R346	Chip Resistor	100K ohm	
R347	Chip Resistor	100K ohm	
R348	Chip Resistor	33K ohm	
R349	Chip Resistor	22K ohm	
R350	Chip Resistor	22K ohm	
R351	Chip Resistor	22K ohm	
R352	Chip Resistor	2.2K ohm	
R353	Chip Resistor	2.2K ohm	
R354	Chip Resistor	2.2K ohm	
R355	Chip Resistor	2.2K ohm	
R356	Chip Resistor	2.2K ohm	
R357	Chip Resistor	2.2K ohm	
R358	Chip Resistor	2.2K ohm	
R359	Chip Resistor	2.2K ohm	
R360	Chip Resistor	1.5K ohm	
R361	Chip Resistor	22 ohm	
R362	Chip Resistor	470K ohm	
R363	Chip Resistor	2.2K ohm	
R364	Chip Resistor	10K ohm	
R365	Chip Resistor	2.2K ohm	
R366	Chip Resistor	470K ohm	
R367	Chip Resistor	100K ohm	
R368	Chip Resistor	1K ohm	
R369	Chip Resistor	1K ohm	
R370	Chip Resistor	1K ohm	

IF PWB (82-02A)

Symbol No.	Part Name	Description	Remarks
R371	Chip Resistor	1K ohm	
R372	Chip Resistor	1K ohm	
R373	Chip Resistor	1K ohm	
R374	Chip Resistor	10K ohm	
R375	Chip Resistor	1K ohm	
R376	Chip Resistor	1M ohm	
R377	Chip Resistor	1K ohm	
R378	Chip Resistor	220K ohm	
R379	Chip Resistor	1K ohm	
R380	Chip Resistor	1K ohm	
R381	Chip Resistor	470K ohm	
R382	Chip Resistor	1K ohm	
R383	Chip Resistor	1K ohm	
R384	Chip Resistor	100K ohm	
R385	Chip Resistor	100K ohm	
R386	Chip Resistor	1K ohm	
R387	Chip Resistor	1K ohm	
R388	Chip Resistor	1K ohm	
R389	Chip Resistor	1K ohm	
R390	Chip Resistor	39K ohm	
R391	Chip Resistor	1K ohm	
R394	Chip Resistor	2.2K ohm	
R395	Chip Resistor	3.3K ohm	
R396	Chip Resistor	220K ohm	
R397	Chip Resistor	47K ohm	
R398	Chip Resistor	10K ohm	
TR301	Transistor	2SA1162	
TR302	Transistor	2SC3356 (R24)	
TR303	Digital Transistor	DTB123YK	
TR304	Digital Transistor	RN1408	
TR305	Transistor	2SC4116GR	
TR306	Transistor	2SC4116GR	
TR307	Transistor	2SC4116GR	
TR308	Transistor	2SC4116GR	
TR309	Transistor	2SC4116GR	
TR310	Transistor	2SC4116GR	
TR311	Transistor	2SC4116GR	
TR312	Transistor	2SC2714Y	
TR313	Digital Transistor	RN1408	
TR314	FET	2SK1062	
TR316	FET	2SK1062	
TR317	Digital Transistor	RN1408	
VC301	Variable Capacitor	10PF	
VC302	Variable Capacitor	30PF	
VC303	Variable Capacitor	30PF	
VR301	Semi-fixed Resistor	100K ohm	RVG3S08
VR302	Variable Resistor	10K ohm (SQL)	TP96N00
VR303	Semi-fixed Resistor	100K ohm	RVG3S08

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CPU PWB (82-03A)

Symbol No.	Part Name	Description	Remarks
C501	Ceramic Capacitor	0.1uF (B)	
C502	Tantalum Capacitor	1uF/6.3V	
C503	Ceramic Capacitor	0.22uF	
C504	Ceramic Capacitor	0.22uF	
C505	Ceramic Capacitor	0.22uF	
C506	Ceramic Capacitor	0.22uF	
C507	Ceramic Capacitor	0.22uF	
C508	Tantalum Capacitor	3.3uF/16V	
C509	Tantalum Capacitor	3.3uF/16V	
C510	Tantalum Capacitor	10uF/10V	
C511	Ceramic Capacitor	22PF	
C512	Ceramic Capacitor	22PF	
C513	Ceramic Capacitor	0.1uF (F)	
C514	Ceramic Capacitor	0.001uF	
C515	Ceramic Capacitor	0.001uF	
C516	Ceramic Capacitor	0.1uF (F)	
C517	Ceramic Capacitor	0.1uF (F)	
C518	Ceramic Capacitor	0.1uF (F)	
C519	Ceramic Capacitor	0.1uF (F)	
C520	Tantalum Capacitor	1uF/6.3V	
C521	Ceramic Capacitor	0.1uF (F)	
C522	Electrolytic Capacitor	220uF/10V	
C523	Ceramic Capacitor	0.1uF (F)	
C524	Electrolytic Capacitor	220uF/10V	
C525	Tantalum Capacitor	10uF/10V	
C526	Ceramic Capacitor	0.1uF (F)	
C527	Ceramic Capacitor	0.1uF (F)	
C528	Ceramic Capacitor	0.1uF (F)	
C529	Tantalum Capacitor	10uF/10V	
C530	Ceramic Capacitor	0.1uF (F)	
C531	Ceramic Capacitor	0.1uF (F)	
C532	Ceramic Capacitor	0.1uF (F)	
C533	Electrolytic Capacitor	22uF/16V	
C534	Ceramic Capacitor	0.01uF	
C535	Ceramic Capacitor	0.001uF	
C536	Tantalum Capacitor	10uF/10V	
C537	Ceramic Capacitor	0.001uF	
C538	Electrolytic Capacitor	10uF/35V	
C539	Ceramic Capacitor	0.1uF (F)	
C540	Ceramic Capacitor	0.1uF (F)	
C541	Ceramic Capacitor	0.01uF	
C542	Ceramic Capacitor	0.1uF (F)	
C543	Ceramic Capacitor	0.1uF (F)	
C544	Ceramic Capacitor	0.1uF (F)	
C545	Ceramic Capacitor	0.1uF (F)	
C546	Ceramic Capacitor	0.1uF (F)	
C547	Electrolytic Capacitor	220uF/10V	
C548	Electrolytic Capacitor	220uF/10V	
C549	Ceramic Capacitor	0.1uF (F)	
C550	Ceramic Capacitor	0.001uF	
C551	Ceramic Capacitor	0.1uF (F)	

CPU PWB (82-03A)

Symbol No.	Part Name	Description	Remarks
C552	Ceramic Capacitor	0.01uF	
C553	Tantalum Capacitor	10uF/10V	
C554	Ceramic Capacitor	0.1uF (F)	
C555	Ceramic Capacitor	0.1uF (F)	
C556	Tantalum Capacitor	3.3uF/16V	
C557	Ceramic Capacitor	0.001uF	
C558	Ceramic Capacitor	0.1uF (F)	
C559	Ceramic Capacitor	0.1uF (F)	
C560	Ceramic Capacitor	0.01uF	
C561	Ceramic Capacitor	0.01uF	
D501	Diode	1SS226	
D502	Diode	1SS319	
D503	Diode	1SS319	
D504	Diode	1SS319	
D505	Diode	1SS319	
D506	Diode	1SS184	
D507	LED	SML-110MT (green)	
D508	LED	SML-110MT (green)	
D509	LED	SML-110MT (green)	
D510	LED	SML-110MT (green)	
D511	LED	SML-210MT (green)	
D512	LED	SML-210MT (green)	
D513	LED	SML-210MT (green)	
D514	LED	SML-210MT (green)	
D515	LED	SML-210MT (green)	
D516	LED	SML-210MT (green)	
D517	Diode	MA721	
D518	Diode	ISR154	
D519	Zenor Diode	02CZ6.8Y	6.8V
D520	Diode	1SS319	
D521	Diode	1SS319	
D522	Diode	1SS319	
D523	Diode	1SS319	
D524	Diode	ISR154	
D525	Diode	1SS184	
EM501	Noise Filter	VFM41R01	
EM502	Noise Filter	VFM41R01	
IC501	CPU	uPD78054	
IC502	Flash Memory	AT29C512-15TC	
IC503	IC	TC74HC373	
IC504	Reset IC	S-8054HN	
IC505	NAND IC	TC4S81F	
IC506	Analog Switch IC	TC4S66F	
IC507	4.5V Voltage Regulator IC	TK11245	
IC508	5V DC-DC Converter IC	RH5RH501A	
IC509	4.5V Voltage Regulator IC	TK11245	
IC510	4.0V Voltage Regulator IC	TK11240	
IC511	IC	TC4030BF	

CPU PWB (82-03A)

Symbol No.	Part Name	Description	Remarks
IC512	IC	TC4013BF	
IC513	Audio Power IC	NJM2070	
J501	FPC 30pin Connector	FH12-30S-0.5SH	
J502	External SP Jack	HSJ1501	
J503	Speaker Terminal		
J504	FPC 30pin Connector	FH12-30S-0.5SH	
J505	7pin Connector	9120B-07	
J508	FPC 30pin Connector	FH12-30S-0.5SH	
J509	14pin Connector		
J510	10pin Extension Connector	TCX5110-21	
J512	External DC Jack	HEC1737	
J513	Battery Terminal		
J514	7pin Connector	9120S-07L	
L502	Chip Inductor	100uH	
L503	Choke Coil	SMD-0481	
L504	Chip Inductor	100uH	
LCD501	Liquid Crystal Display		
R501	Chip Resistor	100K ohm	
R502	Chip Resistor	470K ohm	
R503	Chip Resistor	470K ohm	
R504	Chip Resistor	4.7K ohm	
R506	Chip Resistor	100K ohm	
R508	Chip Resistor	1M ohm	
R509	Chip Resistor	100K ohm	
R510	Chip Resistor	620K ohm	
R511	Chip Resistor	510K ohm	
R512	Chip Resistor	100K ohm	
R513	Chip Resistor	100K ohm	
R514	Chip Resistor	100K ohm	
R515	Chip Resistor	100K ohm	
R516	Chip Resistor	100K ohm	
R517	Chip Resistor	220 ohm	
R518	Chip Resistor	220 ohm	
R519	Chip Resistor	220 ohm	
R520	Chip Resistor	220 ohm	
R521	Chip Resistor	220 ohm	
R522	Chip Resistor	220 ohm	
R523	Chip Resistor	220 ohm	
R524	Chip Resistor	220 ohm	
R525	Chip Resistor	220 ohm	
R526	Chip Resistor	1K ohm	
R527	Chip Resistor	1K ohm	
R528	Chip Resistor	1K ohm	
R529	Chip Resistor	100 ohm	
R530	Chip Resistor	100 ohm	
R531	Chip Resistor	100 ohm	
R532	Chip Resistor	100 ohm	

CPU PWB (82-03A)

Symbol No.	Part Name	Description	Remarks
R533	Chip Resistor	100 ohm	
R534	Chip Resistor	2.2K ohm	
R535	Chip Resistor	100K ohm	
R536	Chip Resistor	2.2K ohm	
R537	Chip Resistor	10K ohm	
R538	Chip Resistor	33K ohm	
R539	Chip Resistor	100K ohm	
R540	Resistor	10 ohm 3W	
R541	Chip Resistor	2.2K ohm	
R542	Chip Resistor	6.8 ohm 1/4W	
R543	Chip Resistor	47K ohm	
R544	Chip Resistor	4.7K ohm	
R545	Chip Resistor	100K ohm	
R546	Chip Resistor	100K ohm	
R547	Chip Resistor	47K ohm	
R548	Chip Resistor	1M ohm	
R549	Chip Resistor	10K ohm	
R550	Chip Resistor	10K ohm	
R551	Chip Resistor	1K ohm	
R552	Chip Resistor	1K ohm	
R553	Chip Resistor	1K ohm	
R558	Chip Resistor	47K ohm	
R559	Chip Resistor	1K ohm	
R560	Chip Resistor	1M ohm	
R561	Chip Resistor	2.2 ohm	
R562	Chip Resistor	6.8 ohm 1/4W	
R563	Chip Resistor	22K ohm	
R564	Chip Resistor	4.7K ohm	
R565	Chip Resistor	4.7K ohm	
R566	Chip Resistor	4.7K ohm	
R567	Chip Resistor	4.7K ohm	
R568	Chip Resistor	4.7K ohm	
R569	Chip Resistor	2.2K ohm	
R570	Chip Resistor	4.7K ohm	
R571	Chip Resistor	4.7K ohm	
R572	Chip Resistor	0 ohm	
R573	Chip Resistor	100K ohm	
R574	Chip Resistor	22K ohm	
SW501	Pluse Switch	EC12B1514	
SW502	Cross Position Switch	SKQUAA	
SW503	Tact Switch	SKQGAC	Function Key
SW504	Tact Switch	SKQGAC	Lock Key
SW505	Tact Switch	SKQGAC	Monitor Key
TR501	Digital Transistor	DTB123YK	
TR502	Digital Transistor	RN1408	
TR503	Transistor	2SA1213	
TR504	Transistor	2SD1758	
TR505	Digital Transistor	RN1408	
TR506	Transistor	2SC4116GR	

[illegible]

VCO PWB (82-04A)

Symbol No.	Part Name	Description	Remarks
C701	Ceramic Capacitor	1PF	
C702	Ceramic Capacitor	100PF	
C703	Ceramic Capacitor	47PF (UJ)	
C704	Ceramic Capacitor	3PF	
C705	Ceramic Capacitor	0.001uF	
C706	Ceramic Capacitor	0.001uF	
C707	Ceramic Capacitor	1.5PF (UJ)	
C708	Tanatlum Capacitor	4.7uF/6.3V	
C709	Ceramic Capacitor	100PF	
C710	Ceramic Capacitor	-	
C711	Ceramic Capacitor	10PF	
C712	Ceramic Capacitor	0.01uF	
C713	Ceramic Capacitor	0.01uF	
C714	Ceramic Capacitor	15PF (UJ)	
C715	Ceramic Capacitor	0.01uF	
C716	Ceramic Capacitor	33PF	
C717	Ceramic Capacitor	33PF (UJ)	
D701	Vari-Cap Diode	1SS231	
D702	Vari-Cap Diode	1SS231	
D703	Vari-Cap Diode	1SS231	
D704	Vari-Cap Diode	1SS231	
D705	Vari-Cap Diode	1SS231	
D706	Vari-Cap Diode	1SS231	
J701	7pin Connector	9210B-1-07Z	
L701	Chip Inductor	5.6nH	
L702	Chip Inductor	0.22uH	
L703	Chip Inductor	0.22uH	
R701	Chip Resistor	1K ohm	
R702	Chip Resistor	10K ohm	
R703	Chip Resistor	47 ohm	
R704	Chip Resistor	4.7K ohm	
R705	Chip Resistor	3.3K ohm	
R706	Chip Resistor	4.7K ohm	
R707	Chip Resistor	3.3K ohm	
R708	Chip Resistor	2.2K ohm	
R709	Chip Resistor	10K ohm	
R711	Chip Resistor	10K ohm	
R712	Chip Resistor	10K ohm	
R713	Chip Resistor	22 ohm	
R714	Chip Resistor	15K ohm	
R715	Chip Resistor	10 ohm	
TR701	Transistor	2SC4094 (R37)	
TR702	Transistor	2SC3356 (R24)	
	Printed Circuit Board	82-04A	