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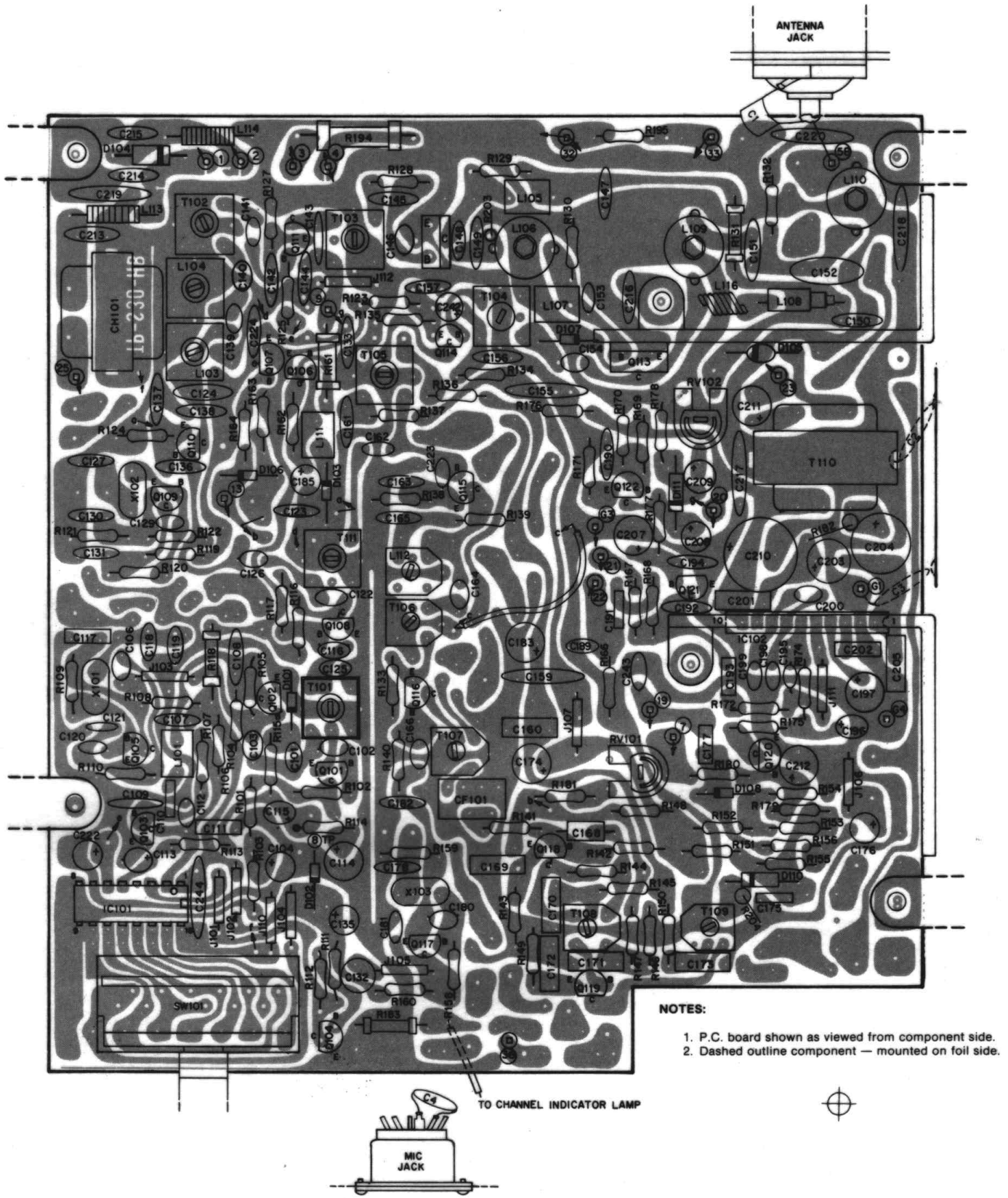
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COMPONENT OUTLINES





- NOTES:**
1. P.C. board shown as viewed from component side.
 2. Dashed outline component — mounted on foil side.

Figure 4-1
P.C. Board Component Outline — Model 2680

PARTS LIST

Main P.C. Board

Reference Designator	Description	Part No.
	main, p.c. board, complete	APTBM36AT
	main, p.c. board, plated and drilled	PTBMD36AOX
C101	18pF, 50V, ceramic disc	CC-CB180KCM
C102	22pF, 50V, ceramic disc	CC-CB220KOM
C103	1pF, 50V, ceramic disc	CC-CB010CCM
C104	10uF, 16V, electrolytic	CE-ED100ALN
C105	(not used)	
C106	10pF, 50V, ceramic disc	CC-CB100DOM
C107	.01uF, 50V, ceramic disc	CK-CB103PEM
C108	330pF, 50V, ceramic disc	CC-CB331KOM
C109	330pF, 50V, ceramic disc	CC-CB331KOM
C110	.001uF, 50V, mylar	CQ-MB102KCH
C111	.01uF, 50V, mylar	CQ-MB103KCH
C112	39pF, 50V, ceramic disc	CC-CB390KOM
C113	.22uF, 50V, electrolytic	CE-EGR22ZMN
C114	10uF, 16V, electrolytic	CE-ED100KMN
C115	.1uF, 50V, electrolytic	CE-EGR10ZMN
C116	16pF, 50V, ceramic disc	CC-CB150KOM
C117	.01uF, 50V, mylar	CQ-MB103KCH
C118	56pF, 50V, ceramic disc	CC-CB569KPM
C119	12pF, 50V ceramic disc	CB-CC1201CPM
C120	560pF, 50V, ceramic disc	CK-CB561KBM
C121	100pF, 50V, ceramic disc	CC-CB101KPM
C122	15pF, 50V, ceramic disc	CC-CB150KOM
C123	.01uF, 50V, ceramic disc	CK-CB103PEM
C124	100pF, 500V, mica	CM-SD101KCS
C125	33pF, 50V, ceramic disc	CC-CB330KOM
C126	12pF, 50V, ceramic disc	CC-CB120KPM
C127	56pF, 50V, ceramic disc	CC-CB560KPM
C128	(not used)	
C129	560pF, 50V, ceramic disc	CK-CB561KBM
C130	82pF, 50V, ceramic disc	CC-CB820KPM
C131	.01uF, 50V, ceramic disc	CK-CB103PEM
C132	560pF, 50V, mylar	CQ-MB561KCH
C133	.01uF, 50V, ceramic disc	CK-CB103PEM
C134	(not used)	
C135	10uF, 16V, electrolytic	CE-ED100ALN
C136	220pF, 50V, ceramic disc	CC-CB221KOM
C137	.01uF, 50V, ceramic disc	CK-CB103PEM
C138	.01uF, 50V, ceramic disc	CK-CB103PEM
C139	2pF, 50V, ceramic disc	CC-CB020COM
C140	2pF, 50V, ceramic disc	CC-CB020COM
C141	68pF, 50V, ceramic disc	CC-CB680KOM
C142	.01uF, 50V, ceramic disc	CK-CB103PEM
C143	100pF, 50V, ceramic disc	CC-CB101KPM
C144	.01uF, 50V, ceramic disc	CK-CB103PEM
C145	.01uF, 50V, ceramic disc	CK-CB103PEM
C146	470pF, 50V, ceramic disc	CK-CB471KBM
C147	.01uF, 50V, ceramic disc	CK-CB103PEM
C148	120pF, 50V, ceramic disc	CC-CB121KPM
C149	220pF, 50V, ceramic disc	CC-CB221KOM
C150	.01uF, 50V, mica	CK-CB103PEM
C151	100pF, 500V, mica	CM-SD101KCS
C152	270pF, 500V, ceramic disc	CM-SD271KCS
C153	82pF, 50V, ceramic disc	CC-CB820KOM
C154	27pF, 50V, ceramic disc	CC-CB270KOM
C155	.047uF, 50V, ceramic disc	CK-CB473ZFM
C156	.01uF, 50V, ceramic disc	CK-CB103PEM
C157	.01uF, 50V, ceramic disc	CK-CB103PEM
C158	(not used)	
C159	.047uF, 50V, ceramic disc	CK-CB473ZFM
C160	.047uF, 50V, mylar	CQ-MB473KCH
C161	.01uF, 50V, ceramic disc	CK-CB103PEM
C162	33pF, 50V, ceramic disc	CC-CB330KPM
C163	.01uF, 50V, ceramic disc	CK-CB103PEM
C164	2pF, 50V, ceramic disc	CC-CB020COM
C165	.01uF, 50V, ceramic disc	CK-CB103PEM
C166	10pF, 50V, ceramic disc	CC-CB100DOM
C167	(not used)	
C168	2.2pF, 500V, ceramic disc	CG-2H2R2KNN

Reference Designator	Description	Part No.
C169	.047uF, 50V, mylar	CQ-MB473KCH
C170	.047uF, 50V, mylar	CQ-MB473KCH
C171	.047uF, 50V, mylar	CQ-MB473KCH
C172	.047uF, 50V, mylar	CQ-MB473KCH
C173	.047uF, 50V, mylar	CQ-MB473KCH
C174	3.3uF, 25V, electrolytic	CE-EE3R3ALN
C175	.0047uF, 50V, mylar	CQ-MB472KCH
C176	1uF, 50V, electrolytic	CE-EG010ALN
C177	2200pF, 50V, mylar	CQ-MB223KCH
C178	56pF, 50V, ceramic disc	CC-CB560KPM
C179	(not used)	
C180	560pF, 50V, ceramic disc	CK-CB561KBM
C181	100pF, 50V, ceramic disc	CC-CB101KOM
C182	68pF, 50V, ceramic disc	CC-CB680KPM
C183	10uF, 16V, electrolytic	CE-ED100ALN
C184	(not used)	
C185	47uF, 16V, electrolytic	CE-ER470ALN
C186 through		
C188	(not used)	
C189	.0022uF, 50V, ceramic disc	CK-CC222KBM
C190	.01uF, 50V, ceramic disc	CK-CB103PEM
C191	.022uF, 50V, mylar	CQ-MB223KCH
C192	150pF, 50V, ceramic disc	CC-CB151KOM
C193	.01uF, 50V, mylar	CQ-MB103KCH
C194	.01uF, 50V, ceramic disc	CK-CB103PEM
C195	390pF, 50V, ceramic disc	CK-CB391KBM
C196	5.6uF, 25V, tantalum	CS-SE5R6MDN
C197	33uF, 6.3V, electrolytic	CE-EB330ALN
C198	68pF, 50V, ceramic disc	CC-CB680KOM
C199	68pF, 50V, ceramic disc	CC-CB680KOM
C200	390pF, 50V, ceramic disc	CK-CB391KBM
C201	.068uF, 50V, mylar	CQ-MB683KCH
C202	.022uF, 50V, mylar	CQ-MB223KCH
C203	47uF, 16V, electrolytic	CE-ED470ALN
C204	220uF, 16V, electrolytic	CE-AD221ZLS
C205	.068uF, 50V, mylar	CQ-MB683KCH
C206	(not used)	
C207	33uF, 6.3V, electrolytic	CE-EB330ALN
C208	10uF, 16V, electrolytic	CE-ED100ALN
C209	1uF, 50V, electrolytic	CE-EG010ALN
C210	1000uF, 16V, electrolytic	CE-ED102ZUN
C211	47uF, 25V, electrolytic	CE-AE470ZLS
C212	33uF, 6.3V, electrolytic	CE-EB330ALN
C213	.01uF, 50V, ceramic disc	CK-CB103PEM
C214	.01uF, 50V, ceramic disc	CK-CB103PEM
C215	.01uF, 50V, ceramic disc	CK-CB103PEM
C216	.01uF, 50V, ceramic disc	CK-CB103PEM
C217	.047uF, 50V, ceramic disc	CK-CB473ZFM
C218	.047uF, 50V, ceramic disc	CK-CB473ZFM
C219	.047uF, 50V, ceramic disc	CK-CB473ZFM
C220	.047uF, 50V, ceramic disc	CK-CB473ZFM
C221	(not used)	
C222	4.7uF, 25V, electrolytic	CE-EE4R7ZMN
C223	39pF, 50V, ceramic disc	CC-CB390KOM
C224	.01uF, 50V, ceramic disc	CK-CB103PEM
C225 through		
C241	(not used)	
C242	1uF, 50V, electrolytic	CE-EG010ALN
C243	100pF, 50V, ceramic disc	CC-CB101KOM
C244	.047uF, 50V, ceramic disc	CK-CB473ZFM
CF101	ceramic filter	FB-R455A98M
CH101	choke coil	LJ-119H001Y
D101	1TT410, silicon	QD-CTT410XQ
D102	MZ205, silicon, zener	QD-ZM2205XE
D103	RD9.1E, silicon, zener	QD-ZRD9EXAA
D104	1S1885, silicon	QD-SS1885XT
D105	V06C, silicon	QD-SV06CXXB
D106	1S1555, silicon	QD-SS1555XT
D107	1S1555, silicon	QD-SS1555XT
D108	1S1555, silicon	QD-SS1555XT
D109	(not used)	
D110	1N60, germanium	QD-G1N60XXT
D111	1N60, germanium	QD-G1N60XXT

Reference Designator	Description	Part No.
IC101	PLL02A	QQ-OPLL02AO
IC102	(TOYO) BA521	QQ-MBA521AX
L101	rf coil	LF-220KDO1N
L102	(not used)	
L103	rf coil	TR-10CD004S
L104	rf coil	TR-10CD005S
L105	rf coil	LF-2R2KD01N
L106	rf coil	TR-A5CZ001M
L107	rf coil	LF-680KD01N
L108	rf coil	LD-ADX3825M
L109	rf coil	TR-A5CZ002M
L110	rf coil	TR-A5CZ003M
L111	rf coil	LF-680KD01N
L112	rf coil	TR-07MB008N
L113	rf coil	LD-ADB4024B
L114	rf coil	LD-ADB4024B
L115	(not used)	
L116	rf coil	LA-1KE1011A
Q101	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q102	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q103	(NEC) 2SC829 (B)	QT-CO829XAN
Q104	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q105	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q106	(MITSUBISHI) 2SC1318 (Q)	QT-C1318XAN
Q107	(MITSUBISHI) 2SA719 (Q)	QT-A0719XAN
Q108	(NEC) 2SC1359 (B)	QT-C1359XAN
Q109	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q110	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q111	2SC1687	QT-C1687XAN
Q112	(SONY) 2SC1760-3	QT-C1760XAS
Q113	(NEC) 2SC1306	QT-C1306XZA
Q114	2SC1047 (B)	QT-C1047XAN
Q115	(NEC) 2SC1359 (B)	QT-C1359XAN
Q116	(NEC) 2SC829 (C)	QT-CO829XBN
Q117	(MITSUBISHI) 2SC710 (D)	QT-CO710XBE
Q118	(NEC) 2SC829 (C)	QT-CO829XBN
Q119	(NEC) 2SC829 (C)	QT-CO829XBN
Q120	2SC372 (Y)	QT-CO372XAT
Q121	2SC828P.Q	QT-CO828XDN
Q122	2SC828P	QT-CO828XAN
R101	100, 5%, 1/4w, carbon film	RD-25RJ101D
R102	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R103	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R104	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R105	220, 5%, 1/4w, carbon film	RD-25RJ221D
R106	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R107	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R108	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R109	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R110	2.2k, 5%, 1/4w, carbon film	RD-25RJ222D
R111	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R112	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R113	3.3k, 5%, 1/4w, carbon film	RD-25RJ332D
R114	470, 5%, 1/4w, carbon film	RD-25RJ471D
R115	22k, 5%, 1/4w, carbon film	RD-25RJ223D
R116	470, 5%, 1/4w, carbon film	RD-25RJ471D
R117	33k, 5%, 1/4w, carbon film	RD-25RJ333D
R118	100, 5%, 1/2w, metal oxide	RG-HAPJ101B
R119	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R120	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R121	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R122	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R123	82k, 5%, 1/4w, carbon film	RD-25RJ823D
R124	270, 5%, 1/4w, carbon film	RD-25RJ271D
R125	10k, 5%, 1/4w, carbon film	RD-25RJ103D
R126	(not used)	
R127	68, 5%, 1/4w, carbon film	RD-25RJ680D
R128	100, 5%, 1/4w, carbon film	RD-25RJ101D
R129	220, 5%, 1/4w, carbon film	RD-25RJ221D
R130	47, 5%, 1/4w, carbon film	RD-25RJ470D
R131	10, 5%, 1/2w, metal oxide	RX-HAPJ100B
R132	47k, 5%, 1/4w, carbon film	RD-25RJ473D
R133	1k, 5%, 1/4w, carbon film	RD-25RJ102D

Reference Designator	Description	Part No.
R134	680, 5%, 1/4w, carbon film	RD-25RJ681D
R135	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R136	100, 5%, 1/4w, carbon film	RD-25RJ101D
R137	1.8k, 1/4w, carbon film	RD-25RJ182D
R138	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R139	470, 5%, 1/4w, carbon film	RD-25RJ471D
R140	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R141	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R142	4.7k, 5%, 1/4w, carbon film	RD-25RJ472D
R143	470, 5%, 1/4w, carbon film	RD-25RJ471D
R144	4.7k, 5%, 1/4w, carbon film	RD-25RJ473D
R145	220, 5%, 1/4w, carbon film	RD-25RJ221D
R146	330, 5%, 1/4w, carbon film	RD-25RJ331D
R147	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R148	27k, 5%, 1/4w, carbon film	RD-25RJ273D
R149	220, 5%, 1/4w, carbon film	RD-25RJ221D
R150	47, 5%, 1/4w, carbon film	RD-25RJ470D
R151	22k, 5%, 1/4w, carbon film	RD-25RJ223D
R152	270k, 5%, 1/4w, carbon film	RD-25RJ474D
R153	47k, 5%, 1/4w, carbon film	RD-25RJ473D
R154	68k, 5%, 1/4w, carbon film	RD-25RJ683D
R155	33k, 5%, 1/4w, carbon film	RD-25RJ333D
R156	47k, 5%, 1/4w, carbon film	RD-25RJ473D
R157	(not used)	
R158	100k, 5%, 1/4w, carbon film	RD-25RJ104D
R159	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R160	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R161	22, 5%, 1/2w, metal oxide	RG-HAPJ220B
R162	1k, 5%, 1/4w, carbon film	RD-25RJ102D
R163	390, 5%, 1/4w, carbon film	RD-25RJ391D
R164	10k, 5%, 1/4w, carbon film	RD-25RJ103D
R165	(not used)	
R166	3.3k, 5%, 1/4w, carbon film	RD-25RJ332D
R167	27k, 5%, 1/4w, carbon film	RD-25RJ273D
R168	3.3k, 5%, 1/4w, carbon film	RD-25RJ332D
R169	220k, 5%, 1/4w, carbon film	RD-25RJ224D
R170	22k, 5%, 1/4w, carbon film	RD-25RJ223D
R171	150, 5%, 1/4w, carbon film	RD-25RJ151D
R172	2.2k, 5%, 1/4w, carbon film	RD-25RJ222D
R173	(not used)	
R174	10, 5%, 1/4w, carbon film	RD-25RJ100D
R175	10k, 5%, 1/4w, carbon film	RD-25RJ103D
R176	82, 5%, 1/4w, carbon film	RD-25RJ820D
R177	270, 5%, 1/4w, carbon film	RD-25RJ271D
R178	680, 5%, 1/4w, carbon film	RD-25RJ681D
R179	22k, 5%, 1/4w, carbon film	RD-25RJ223D
R180	1.8k, 5%, 1/4w, carbon film	RD-25RJ182D
R181	18k, 5%, 1/4w, carbon film	RD-25RJ183D
R182	100, 5%, 1/4w, carbon film	RD-14VJ101D
R183	270, 5%, 1/2w, metal oxide	RG-HAPJ271B
R184 through R193	(not used)	
R194	15, 5%, 2w, metal oxide	RX-2ANJ150N
R195	1.5k, 5%, 1/4w, carbon film	RD-25RJ152D
R196 through R202	(not used)	
R203	560, 5%, 1/4w, carbon film	RD-25RJ561D
R204	560, 5%, 1/4w, carbon film	RD-25RJ561D
RV101	10k, potentiometer	RP-GNB10301
RV102	2k, potentiometer	RP-GNB20201
SW101	switch, rotary wafers	SR-0724102W
T101	rf transformer	TR-10DA002T
T102	rf transformer	TR-10CB001S
T103	rf transformer	TR-10CP005S
T104	rf transformer	TR-10MP003T
T105	rf transformer	TR-10CA005S
T106	rf transformer	TR-07MB008N
T107	i-f transformer	TR-07LA004N
T108	i-f transformer	TR-07LA005N
T109	i-f transformer	TR-07LA023N
T110	af transformer	TB-G25B001W
T111	i-f transformer	TR-10MB003T

Reference Designator	Description	Part No.
X101	11.8066 MHz, crystal	XA-SIB4001N
X102	10.695 MHz, crystal	XA-SIB3002N
X103	10.240 MHz, crystal	XA-SIB3001N

CHASSIS MOUNTED COMPONENTS

Reference Designator	Description	Part No.
C1	220pF, 500V, mica	CM-SD221KCS
C2	.01uF, 50V, ceramic disc	CK-DB103PEM
C3	.01uF, 50V, ceramic disc	CK-DB103PEM
C4	.01uF, 50V, ceramic disc	CK-DB103PEM
C5	.01uF, 50V, ceramic disc	CK-DB103PEM
J1	jack, antenna	YJ-CO25009Z
J2	jack, 5 pin Din	YJ-DO55001Z
J3	jack, external speaker	YJ-TO35003Z
J4	jack, remote speaker	YJ-SO45002Z
PL	lamp, channel selector	ZP-A064101U
S	speaker, 8 ohm	ZQ-AO770802
S1	switch, on/off (part of volume control)	RV-NB503A02
VR1	50k, potentiometer	RV-NB503A02
VR2	10k, potentiometer	RV-NA503B04

MECHANICAL PARTS

Part No.	Description	Qty.
MB-762SZ024	panel, front plastic	1
MU-677SZ026	chassis, main frame	1
MU-773SM037	case, (upper)	1
MU-773SM038	case, (lower)	1
ML-121SZ007	bracket, speaker	1
AV-KNOB#047	knob, channel selector	1
VN-376M002	knob, volume and squelch control	2
VM-165RX001	holder, lamp	1
YH-F1S300V	holder, fuse	1
ZF-BQ20202Z	fuse, 2A 30mm	1
AC-DC027GEA	cord, DC power	1
VM-270NB001	bushing, power cord	1

ACCESSORY PARTS

MU-276SW001	bracket, mobile mounting	1
MF-284SN001	handscrew	2
MZ-331SZ002	holder, microphone	1
BT-PT5013BN	screw, self-tapping, M5 x 13	4
BW-G50A065W	washer, outside toothed M5	4
BT-PP4010BZ	screw, self-tapping M4 x 10	2
BW-U40855SW	washer, inside-toothed	2
ZG-AAZ70101	microphone	1



SCHEMATIC DIAGRAMS

HY-GAIN DE PUERTO RICO, INC.

**P.O. Box 68 State Hwy 31, Km. 4.0
Naguabo, Puerto Rico 00718**