This Manual is provided by



Someone who wanted to help you repair your equipment scanned this manual.

If you would like to help us put more manuals online support us.

Supporters of CBTricks.com paid for the hosting so you would have this file.

CBTricks.com is a non-commercial personal website was created to help promote the exchange of service, modification, technically oriented information, and historical information aimed at the Citizens Band, GMRS (CB "A" Band), MURS, Amateur Radios and RF Amps.

CBTricks.com is not sponsored by or connected to any Retailer, Radio, Antenna Manufacturer or Amp Manufacturer, or affiliated with any site links shown in the links database. The use of product or company names on my web site is not endorsement of that product or company.

If your company would like to provide technical information to be featured on this site I will put up on the site as long as I can do it in a non-commercial way.

The site is supported with donation from users, friends and selling of the Galaxy Service Manual CD to cover some of the costs of having this website on the Internet instead of relying on banner ads, pop-up ads, commercial links, etc. to pay my costs. Thus I do not accept advertising banners or pop-up/pop-under advertising or other marketing/sales links or gimmicks on my website.

ALL the money from donations is used for CBTricks.com I didn't do all the work to make money (I have a day job). I all didn't do all this work for someone else to make money also, for example the ebay CD sellers.

All Trademarks, Logos, and Brand Names are the property of their respective owners. This information is not provided by, or affiliated in any way with any radio or antenna Manufacturers.

Thank you for any support you can give.

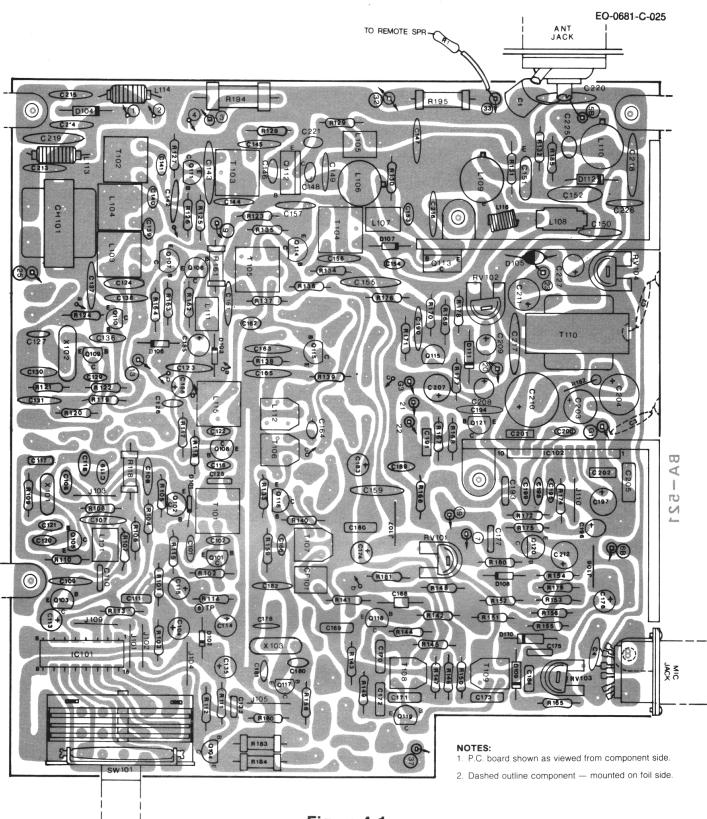
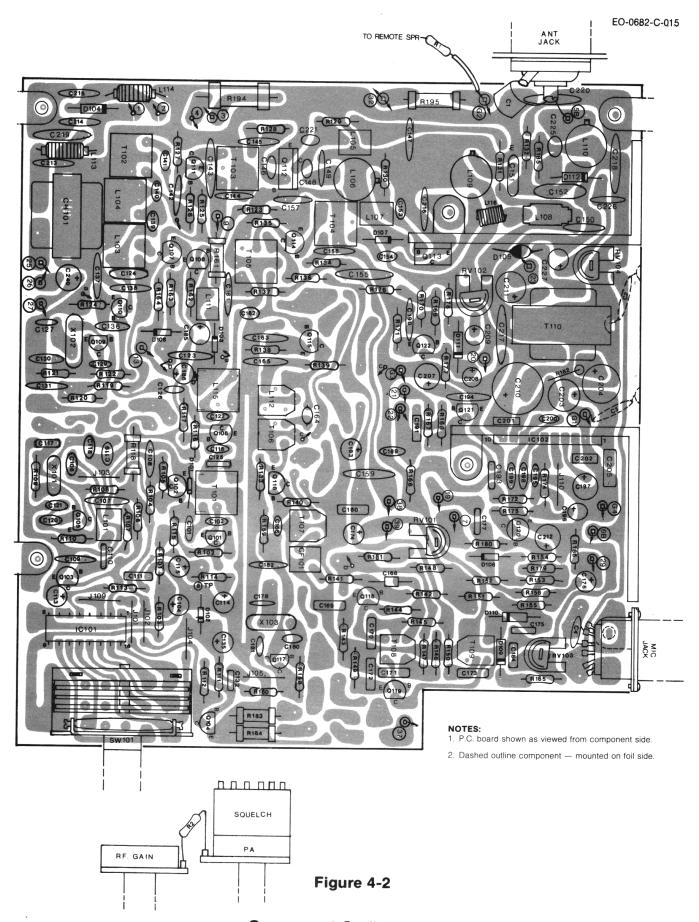


Figure 4-1
Component Outline, Model 681

- 23 -



Component Outline, Model 682

MAIN P.C. BOARD

□---681 only ■--682 only

Unmarked components are common to both radios.

Reference Designator	Description	Part No.
	main p.c. board, complete main p.c. board, complete	AP-TBM027CB
C101 C102 C103	.001uF, 50V, ceramic disc	
C104 C105 C106	10uF, 16V, electrolytic .01uF, 50V, mylar .22pF, 50V, ceramic disc	CQ-MB103KCH CC-CB220KOM
C107 C108 C109 C110	.01uF, 50V, ceramic disc 330pF, 50V, ceramic disc 330pF, 50V, ceramic disc .001uF, 50V, mylar	CC-CB331KOM CC-CB331KOM
C111 C112 C113	.01uF, 50V, mylar (not used) .22uF, 50V, electrolytic	CQ-MB103KCH CE-EGR22ZMN
C114 C115 C116 C117	10uF, 16V, electrolytic 4.7uF, 25V, electrolytic 10pF, 50V, ceramic disc .01uF, 50V, mylar	CE-EE4R78MN CC-CB100DOM
C118 C119 C120 C121	.47pF, 50V, ceramic disc 10pF, 50V, ceramic disc 100pF, 50V, mylar 100pF, 50V, mylar	CC-CB100KPM CC-CB101KOM
C122 C123 C124	8pF, 50V, ceramic disc	CC-CB080DOM CK-CB103PEM CM-SD101KCS
C125 C126 C127 C128	1000pF, 50V, mylar 100pF, 50V, mylar 33pF, 50V, mylar (not used)	CC-CB101KOM
C129 C130 C131	560pF, 50V, mylar 82pF, 50V, mylar .01uF, 50V, mylar	CC-CB820KPM CK-CB103PEM
C132 C133 C134 C135	560pF, 50V, mylar(not used) (not used) 10uF, 16V, electrolytic	CE-ED100ALN
C136 C137 C138 C139	150pF, 50V, ceramic disc .01uF, 50V, ceramic disc .01uF, 50V, ceramic disc .2pF, 50V, ceramic disc	CK-CB103PEM CK-CB103PEM
C140 C141 C142 C143	2pF, 50V, ceramic disc	CC-CB020COM CC-CB680KOM CK-CB103PEM
C144 C145 C146	.01uF, 50V, ceramic disc	CK-CB103PEM CK-CB103PEM CK-CB471KBM
C147 C148 C149 C150	.01uF, 50V, ceramic disc	CC-CB820KOM CC-CB221KOM CK-CB103PEM
C151 C152 C153	100pF, 500V, mica	CM-SD271KCS

Reference Designator	Description	Part No.
C154 C155 C156 C157	27pF, 50V, ceramic disc	CK-CB473ZFM CK-CB103PEM
C158 C159 C160 C161 C162	.047uF, 50V, ceramic disc	. CQ-MB473KCH . CK-CB103PEM . CC-CB100DOM
C163 C164 C165 C166	.01uF, 50V, ceramic disc. 4pF, 50V, ceramic disc. .01uF, 50V, ceramic disc. 47pF, 50V, ceramic disc.	CC-CB040COM CK-CB103PEM
C167 C168 C169 C171 C172	(not used) 2.2pF, 500V, ceramic disc	. CQ-MB473KCH . CQ-MB473KCH
C173 C174 C175 C176	.047uF, 50V, mylar	. CE-EE3R3ALN . CQ-MB472KCH . CE-EG010ALN
C177 C178 C179 C180 C181	.0022uF, 50V, mylar 39pF, 50V, ceramic disc (not used) 560pF, 50V, ceramic disc 560pF, 50V, ceramic disc	. CC-CB390KPM . CK-CB561KBM
C182 C183 C184 C185 C186	68pF, 50V, ceramic disc 10uF, 16V, electrolytic .022uF, 50V, mylar .10uF, 16V, electrolytic .47uF, 50V, electrolytic	. CE-ED100ALN . CQ-MB223KCH . CE-ED100ALN
C188 C188 C189 C190	(not used) (not used) 0022uF_50V_ceramic disc	. <u>CK-CB222KBM</u>
C191 C192 C193 C194 C195	.022uF, 50V, mylar	. CC-CB221KOM . CQ-MB103KCH . CK-CB103PEM
C196 C197 C198 C199	Seopr, SoV, ceramic disc 5.6uF, 25V, tantalum 33uF, 6.3V, electrolytic. 68pF, 50V, ceramic disc 68pF, 50V, ceramic disc	. CS-SE5R6MDN . CE-EB330ALN . CC-CB680KOM
C200 C201 C202 C203 C204	390pF, 50V, ceramic disc	. CQ-MB683KCH . CQ-MB223KCH . CE-ED470ALN
C204 C205 C206 C207 C208	220uF, 16V, electrolytic	. CQ-MB683KCH . CE-EB330ALN
C209 C210 C211 C212	1uF, 50V, electrolytic	. CE-EG010ALN . CE-ED102ZUN . CE-AE470ZLS . CE-EB330ALN
C213 C214 C215 C216 C217	.01uF, 50V, ceramic disc	. CK-CB103PEM . CK-CB103PEM . CK-CB103PEM . CK-CB473ZFM
C218 C219 C220 C221 C222	.047uF, 50V, ceramic disc	. CK-CB473ZFM . CK-CB473ZFM
C223 C224 C225	(not used) (not used) 4pF, 500V, ceramic disc	. CC-EE040COM

Reference Designator	Description	Part No.
C226 C227 C228 through	.0047uF, 50V, ceramic disc	. CK-CB472PEM . CE-EG010ALN
C239 C240	(not used) 33uF, 16V, electrolytic	. CE-ED330ALN
CF101	ceramic filter	. FB-R455A08M
CH101	choke coil	. LJ-119H001Y
D101 D102 D103 D104 D105 D106 D107 D108 D109 D110 D111 D112 D113	ITT410, silicon MZ205, zener. RD9.1E, zener. 1S1885, silicon V06C, silicon 1S1555, silicon 1S1555, silicon 1N1555, silicon 1N60, germanium 1N60, germanium 1N60, germanium 1N60, germanium 1N60, germanium (not used)	QD-ZMZ205XE QD-ZRD9EXAA QD-SS1885XT QD-SVO6CXXB QD-SS1555XT QD-SS1555XT QD-SS1555XT QD-G1N60XXT QD-G1N60XXT QD-G1N60XXT QD-G1N60XXT
IC101 IC102	PLL01A(TOYO) BA-521	. QQ-MBA521AX
L101 L102 L103 L104 L105 L106 L107 L108 L109 L110 L111 L112 L113 L114 L115	rf coil	. TR-10CD004S . TR-10CD005S . LF-2R2KD01N . TR-A5CZ001M . LF-680KD01N . LD-AX3825M . TR-A5CZ002M . TR-A5CZ003M . LF-680KD01N . TR-07MB007N . LD-ADB4024B . LD-ADB4024B . TR-10MD006S . LA-1KE1011A
Q101 Q102 Q103 Q104 Q105 Q106 Q107 Q108 Q109 Q110 Q111 Q112 Q113 Q114 Q115 Q116 Q117 Q118 Q119 Q119 Q119 Q120 Q121	(MITSUBISHI) 2SC710D (NEC) 2SC829B (NEC) 2SC829B (MITSUBISHI) 2SC710D (MATSUSHITA) 2SC1318(Q) (MATSUSHITA) 2SA719(Q) 2SC1359B (MITSUBISHI) 2SC710D (MITSUBISHI) 2SC710D 2SC1687 (SONY) 2SC1760-3 (NEC) 2SC1306 2SC1047B 2SC1359B 2SC829C (MITSUBISHI) 2SC710D (NEC) 2SC329C (MEC) 2SC829C (NEC) 2SC829C 2SC372Y 2SC828PQ 2SC828P	QT-C0829XAN QT-C0829XAN QT-C0829XAN QT-C0710XBE QT-C1318XAN QT-AO719XAN QT-C0710XBE QT-C0710XBE QT-C13687XAN QT-C13687XAN QT-C13687XAN QT-C13687XAN QT-C1369XAN QT-C1047XAN QT-C1359XAN QT-C1059XAN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN QT-C0829XBN
R101 R102 R103	100, 10% ¼w, carbon film	RD25RJ104D

Reference Designator	Description	Part No.
R104	1.5k 1004 1/w carbon film	DDOCD MCOD
R105	1.5k, 10% ¼w, carbon film	RD25RJ152D
R106	1.5k, 10% ¼w, carbon film	DD25D 1152D
R107	100k, 10% ¼w, carbon film	
R108	1.5k, 10% ¼w, carbon film	
R109	100k, 10% ¼w, carbon film	DOSB 14040
R110	2.2k, 10% ¼w, carbon film	DOED 1000D
R111	1.5k, 10% ¼w, carbon film	DOSE HESD
R112	100k, 10% ¼w, carbon film	DDOED HOAD
R113	3.3k, 10% /4 w, carbon film	ND25NJ 104D
R114	470, 10% ¼w, carbon film	DOED 1471D
R115	22k 10% 1/w carbon film	RD25RJ4/1D
R116	22k, 10% ¼w, carbon film	
R117	470, 10%/w, carbon film	
R118	100k, 10%/w, carbon film	RD25RJ104D
R119	100, 10% ½w, metal oxide	RGHANJIUIN
R120	1.5k, 10% ¼w, carbon film	RD25RJ152D
R121	100k, 10%, 1/w, carbon film	
R122	1K, 10%, ¼w, carbon film	RD25RJ102D
R123	2.7k, 10%, ¼w, carbon film	RD25RJ272D
	3.3.k, 10%, ¼w, carbon film	RD25RJ332D
R124	330, 10%, ¼w, carbon film	RD25RJ331D
R125	3.3k, 10%, ¼w, carbon film	RD25RJ332D
R126	1k, 10%, ¼w, carbon film	RD25RJ102D
R127	68, 10%, ¼w, carbon film	RD25RJ680D
R128	100, 10%¼w, carbon film	RD25RJ101D
R129	220, 10%, ¼w, carbon film	RD25RJ221D
R130	47, 10%, ¼w, carbon film	RD25RJ470D
R131	10, 10%, ½w, metal oxide	ERX-12ANJ100
R132	47k, 10%, ¼w, carbon film	
R133	220, 10%, ¼w, carbon film	
R134	680, 10%, ¼w, carbon film	BD25BJ681D
R135	1.5k, 10%, ¼w, carbon film	
R136	100, 10%, ¼w, carbon film	
R137	1.8k, 10%, ¼w, carbon film	
R138	1k, 10%, ¼w, carbon film	
R139		
	470, 10%, ¼w, carbon film	
R140	3.3k, 10%, ¼w, carbon film	
R141	1k, 10%, ¼w, carbon film	RD25RJ102D
R142	4.7k, 10%, ¼w, carbon film	RD25RJ472D
R143	470, 10%, ¼w, carbon film	RD25RJ471D
R144	47k, 10%, ¼w, carbon film	RD25RJ473D
R145	220, 10% ¼w, carbon film	RD25RJ221D
R146	3.3k, 10%, ¼w, carbon film	RD25RJ332D
R147	12k, 10%, ¼w, carbon film	RD25RJ123D
R148	27k, 10%, ¼w, carbon film	
R149	220, 10%, ¼w, carbon film	RD25RJ221D
R150	47, 10%, ¼w, carbon film	RD25RJ470D
R151	22k, 10%, ¼w, carbon film	
R152	390k, 10%, ¼w, carbon film	
R153	47k, 10%, ¼w, carbon film	
R154	68k, 10%, ¼w, carbon film	
R155	33k, 10%, ¼w, carbon film	DOED 1999D
R156	47k, 10%, ¼w, carbon film	
		ND25HJ4/3D
R157	(not used)	
R158	100k, 10%, ¼w, carbon film	RD25RJ104D
R159	1.5k, 10%, ¼w, carbon film	RD25RJ152D
R160	1.5k, 10%, ¼w, carbon film	RD25RJ152D
R161	22, 10%, ½w, metal oxide	ERG-12ANJ22
R162	1k, 10%, ¼w, carbon film	RD25RJ102D
R163	390, 10%, ¼w, carbon film	RD25RJ391D
R164	10k, 10%, ¼w, carbon film	
R165	820, 10% ¼w, carbon film	RD25B 1821D
R166	3.3k, 10%, ¼w, carbon film	שו שמתום שו השנו הייייי
R167	27k, 10%, ¼w, carbon film	DDOED 1070D
R168	3.3k, 10%, ¼w, carbon film	DDOED 1000D
R169	220k 10% 1/w carbon 61-	nD25HJ332D
	220k, 10%, ¼w, carbon film	HD25HJ224D
R170	22k, 10%, ¼w, carbon film	HD25RJ223D
R171	150, 10%, ¼w, carbon film	RD25RJ151D
R172	2.2k, 10%, ¼w, carbon film	RD25RJ222D
R173	(not used)	

Reference Designator	Description	Part No.
R174	10, 10%, ¼w, carbon film	RD25RJ100D
R175	10k. 10%. ¼w. carbon film	RD25RJ103D
R176	82, 10%, ¼w, carbon film	RD25RJ820D
R177	270. 10%. ¼w. carbon film	RD25RJ271D
R178	680, 10%, ¼w, carbon film	RD25RJ681D
R179	22k, 10%, ¼w, carbon film	RD25RJ223D
R180	1.8k, 10%, ¼w, carbon film	RD25RJ182D
R181	18k, 10%, ¼w, carbon film	RD25FJ183D
R182	100, 10%, ¼w, carbon film	ERD-14VJ101
R183	270, 10%, ½w, metal oxide	ERG-12ANJ271
R184	270, 10%, 1/2w, metal oxide	ERG-12ANJ271
R185	1k, 10%, ¼w, carbon film	RD25RJ102D
R186	10k, 10%, ¼w, carbon film	RD25RJ103D
R187		
through		
R193	(not used)	
R194	15, 10%, 2w, metal oxide	ERX-2ANJ150
R195	150, 10%, 1w, metal oxide	ERG-1ANJ151
RV101	10k potentiometer	RP-GNB10301
RV102	2k, potentiometer	RP-GNB20201
RV103	20K, potentiometer	RP-GNB20301
RV104	20k, potentiometer	RP-GNB20301
SW101	rotary wafer switch	SR-0724301H
T101	rf coil	
T102	rf coil	
T103	rf coil	
T104	rf coil	
T105	rf coil	
T106	rf coil	
T107	i-f transformer	
T108	i-f transformer	
T109	i-f transformer	TR-0/LAU23N
T110	audio transformer	
VR1	50k, potentiometer (part of on/off switch)	ERV-0176
X101	9.50996 MHz, crystal	XA-S1B2001T
X102	9.94500 MHz, crystal	XG-S1A1001T
X103	6.40030 MHz, crystal	XG-S1A2001T

CHASSIS-MOUNTED COMPONENTS

Reference Designator	Description Par	t No.
C1 C2 C3 C4	200 pF, 500V, mica FM* .01 uF, 50V, ceramic disc DD* .01 uF, 50V, ceramic disc DD* .01 uF, 50V, ceramic disc DD*	310E103P50 310E103P50
J1 J2 J3 J4	jack, antenna	S-0084 S-0056
J5	■ jack, stereophone, remote speaker EZS	S-0126
М	meter EM	M-0046
PL1 PL2	pilot lamp EZF	
R1 R2	8.2, 10%, ¼w, carbon film	
S1	switch, on/off power (part of volume control) ER\ (see main p.c. board)	/-0176
S2 SP	switch, toggle, on/off	
VR1	potentiometer, 50K, (volume control w/power switch) ER	/ <u>-</u> 0176
VR2	□ potentiometer, 10K, (squelch control) ER' ■ potentiometer, 10K, (squelch control) RV.	/-0177
VR3	pontentiometer, 50K, (rf gain control) ER	
	fuse, 2A, 30mm	-454AD002

MECHANICAL PARTS

Part No.	Description	Qty
AM-681KD#01 AM-682KD#01 MU-667SZ019 MU-667SZ020 MB-762SZ016 MB-762SZ017 MCO88P003 MCO88P004 VE-90XVC014 MCO46P010 MWO-0345	 escutcheon (front panel assembly) escutcheon (front panel assembly) chassis, main frame panel, front, plastic panel, front, plastic case, upper case, lower channel selector dial plate bracket, meter 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
MWO-0345 MWO-0346 MTO-0003 MTO-0004 MYO-0142 EZS-0001 ENO-0090 EZZ-0025	holder, lamp (channel) holder, lamp (meter) knob, channel selector knob, squelch and volume bracket, speaker holder, fuse cord, power bushing, power cord	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

ACCESSORY PARTS

Part No.	Description	Qty.
MCO46P006	bracket, mounting	1
MMO-0108A	handscrew	2
MYO-0025	holder, microphone	
STPN401025Z	screw, self-tapping, M4x10	2
ZTU040000SX	washer, inside toothed, M4	
STPT50132SN	screw, self-tapping, M5x13	4
ZTS050000SX	washer, outside toothed, M5	4
EAM-0032	microphone	

Naguabo, Puerto Rico 00718