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### Main P.C. Board

Reference Designator	Description Part No.	
	main p.c. board, completeAP-TBM036J7	
	main p.c. board, plated and drilledPT-BN036AO	<
C101	18 pF, 50V, ceramic discCC-CB180KCI	М
C102	22pF, 50V, ceramic disc	
C103	1pF, 50V, ceramic disc	
C104	10uF, 16V, electrolytic	
C105	(not used)	
C106	10pF, 50V, ceramic disc	M
C107	.01uF, 50V, ceramic disc	1
C108	330pF, 50V, ceramic disc	Ŋ
C109	330pF, 50V, ceramic disc	٧
C110	.001uF,50V,mylar	Н
C111	.01uF,50V,mylarCQ-MB103KC	H
C112	39pF, 50V, ceramic disc	Ŋ
C113	.22uF, 50V, electrolytic	١
C114	10uF, 16V, electrolytic	1
C115	.1uF,50V, electrolytic	1
C116	15pF, 50V, ceramic disc	
C117	.01uF, 50V, mylar	
C118	39.pF, 50V, ceramic disc	
C119	12pF, 50V, ceramic disc	
C120	560pF, 50V, ceramic disc	
C121	100pF, 50V, ceramic disc	
C122	15pF, 50V, ceramic disc	
C123 C124	.01uF, 50V, ceramic disc	
C124 C125	100pF, 500V, mica	
C125	33pF, 50V, ceramic disc	
C120 C127	12pF, 50V, ceramic disc	
C128	56pF, 50V, ceramic disc	<i>/</i> I
C129	560pF, 50V, ceramic disc	.A
C130	82pF, 50V, ceramic disc	
C131	.01uF, 50V, ceramic disc	
C132	560pF, 50V, mylar	
C133	.01uF, 50V, ceramic disc CK-CB103PEN	
C134	(not used)	•
C135	10uF, 16V, electrolytic	I
C136	220pF, 50V, ceramic disc	
C137	.01uF, 50V, ceramic discCK-CB103PEN	
C138	.01uF, 50V, ceramic discCK-CB103PEM	
C139	2pF, 50V, ceramic disc	
C140	2pF, 50V, ceramic disc	M
C141	68pF, 50V, ceramic disc	M
C142	.01uF, 50V, ceramic discCK-CB103PEM	Λ
C143	100pF, 50V, ceramic disc	۸
C144	.01uF, 50V, ceramic disc	Λ
C145	.01uF, 50V, ceramic discCK-CB103PEM	Л
C146	470pF, 50V, ceramic disc	√l
C147	.01uF, 50V, ceramic disc	Λ
C148	120pF, 50V, ceramic disc	
C149	220pF, 50V, ceramic disc	M
C150	.01uF, 50V, ceramic discCK-CB103PEN	
C151	100pF, 500V, mica	
C152	270pF, 500V, mica	
C153	82pF, 50V, ceramic disc	
C154	27pF, 50V, ceramic disc	
C155	.047 uF, 50V, ceramic disc	
C156	.01uF, 50V, ceramic disc	
C157	.01uF, 50V, ceramic disc	Л
C158	(not used)	•
C159 C160	.047uF, 50V, ceramic disc	
0100	.047uF, 50V, mylar	
		- 39 -

Reference		
Designator	Description	Part No.
C161	.01uF, 50V, ceramic disc	CK-CB103PEM
C162	33pF, 50V, ceramic disc	
C163	.01uF, 50V, ceramic disc	CK-CB103PEM
C164	2pF, 50V, ceramic disc	
C165	.01uF, 50V,.ceramic disc	
C166	10pF, 50V, ceramic disc	CC-CB100DOM
C167	(not used)	. 12
C168	2.2pF, 500V, ceramic disc	
C169	.047uF, 50V, mylar	
C170 C171	.047uF, 50V, mylar	
C177	.047uF, 50V, mylar	
C173	.047uF, 50V, mylar	
C174	3.3uF, 25V, electrolytic	
C175	.0047uF, 50V, mylar	
C176	1uF, 50V, electrolytic	
C177	.033uF, 50V, mylar	
C178	56pF, 50V, ceramic disc	
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) 47uF, 10V, electrolytic	
C185	47uF, 10V, electrolytic	CE-EC470ALN
C186 through	(not used)	
C189 C190	(not used) .01uF, 50V, ceramic disc	CK CB102DEM
C190	.022uF, 50V, ceramic disc	
C192	150pF, 50V, ceramic disc	
C193	.01uF, 50V, mylar	
C194	.01uF, 50V, ceramic disc	
C195	390pF, 50V, ceramic disc	
C196	5.6uF, 25V, tantalum	. CS-SE5R6MDN
C197	33uF, 6.3V, electrolytic	
C198	68pF, 50V, ceramic disc	. CC-CB680KOM
C199	68pF, 50V, ceramic disc	
C200	390pF, 50V, ceramic disc	
C201	.068uF, 50V, mylar	
C202	.022uF, 50V, mylar	
C203	47uF, 16V, electrolytic	
C204 C205	220uF, 16V, electrolytic	
C206	(not used)	. CQ-MD003KCIT
C207	33uF, 6.3V, electrolytic	CE-ER330ALN
C208	10uF, 16V, electrolytic	
C209	1uF, 50V, electrolytic	
C210	1000uF, 16V, electrolytic	
C211	47uF, 25V, electrolytic	
C212	33uF, 6.3F, electrolytic	CE-EB330ALN
C213	.01uF, 50V, ceramic disc	
C214	.01uF, 50V, ceramic disc	
C215	.01uF, 50V, ceramic disc	
C216	.01uF, 50V, ceramic disc	
C217	.047uF, 50V, ceramic disc	
C218	.047uF, 50V, ceramic disc	
C219	.047uF, 50V, ceramic disc	CK CB473ZFM
C220 C221	.047uF, 50V, ceramic disc	. UN-UD4/32FIVI
C222	4.7uF, 25V, electrolytic	.CF-FF4R7SMN
C223	39pF, 50V, ceramic disc	
C224	.01uF, 50V, ceramic disc	
		-

Reference Designator	Description	Part No.
C225	(not used)	
C226	(not used)	
C227	1uF, 50V, electrolytic	CE-EGO10ALN
C228 through	Tui, 30V, electrolytic	CE-EGUTUALIN
C241	(not used)	
C242	1uF, 50V, electrolytic	CE EGOLONIN
C243	100pf, 50V, ceramic disc	
C244	.047uF, 50V, ceramic disc	
CF101	filter, ceramic	FB-R455A08M
CH101	choke coil	LF-119H001Y
D101	ITT410 eiliaan	OD CTT410VO
D107	1TT410, silicon	
D103	MZ205, silicon, zener	
D103	RD9.1E, silicon, zener	
D104	1S1885, silicon, zener	
D103	V06C, silicon	
D100	1S1555, silicon	
	1S1555, silicon	
D108	1S1555, silicon	QD-SS1555X1
D109	(not used)	
D110	1N60, germanium	
D111	1N60, germanium	QD-G1N60XXT
D112	(not used)	
IC101	PLL02A	QQ-QPI I 02AQ
IC102	BA521	
1101		
L101	rf coil	LF-220KD01N
L102	(not used)	
L103	rf coil	
L104	rf coil	
L105	rf coil	
L106	rf coil	
L107	rf coil	LF-680KD01N
L108	rf coil	
L109	rf coil	
L110	rf coil	
L111	rf coil	LF-680KD01N
L112	rf coil	
L113	rf coil	LD-ADB4024B
L114	rf coil	LD-ADB4024B
L115	(not used)	
L116	rf coil	LA-1KE1011A
Q101	(MITSUBISHI) 2SC710D	OT C0710VPF
Q102	(MITSUBISHI) 2SC710D	OT 00710VPF
Q103	(NEC) 2SC829D	OT COSSOVEN
Q104	(MITCHELLI) 200710D	QT-C0829XDN
Q105	(MITSUBISHI) 2SC710D	QT-C0/10XBE
Q106	(MITSUBISHI) 2SC710D	QT-C0/10XBE
Q107	(MITSUBISHI) 2SC1318Q	QI-C1318XAN
Q108	(MITSUBISHI) 2SA719Q	QI-A0/19XAN
Q109	2SC1359B	
Q109 Q110	(MITSUBISHI) 2SC710D	
Q110 Q111	2SC1687	OT 01007VA**
Q111	(90NV) 2901760 2	
Q112 Q113	(SONY) 2SC1760-3	QI-C1/60XAS
	(NEC) 2SC1306	QI-C1306XZA
Q114	2SC1047B	QT-C1047SAN
Q115	2SC1359B	QT-C1359XAN
Q116	(NEC) 2SC829C	QT-C0829XBN
Q117	(MITSUBISHI) 2SC710D	QT-C0710XBE
Q118	(NEC) 2SC829C	QT-C0829XBN

Reference Designator	Description	Part No.
Q119	(NEC) 2SC829C	. QT-C0829XBN
Q120	2SC372Y	
Q121	2SC828P.Q	QT-C0828XDN
Q122	2SC828P	QT-C0828XAN
R101	100, 5%, ¼w, carbon film	RD-25RJ101D
R102	100k, 5% ¼w, carbon film	
R103	1.5k, 5%, ¼w, carbon film	
R104	1.5k, 5%, ¼w, carbon tilm	
R105 R106	220k, 5%, ¼w, carbon film	
R107	100k, 5%, ¼w, carbon film	
R108	1.5k, 5%, ¼w, carbon film	
R109	100k, 5%, ¼w, carbon film	RD-25RJ104D
R110	1k, 5%, ¼w, carbon film	
R111	1k, 5%, ¼w, carbon film	
R112	100k, 5%, ¼w, carbon film	
R113 R114	470,5%, ¼w, carbon film	
R115	22k, 5%, ¼w, carbon film	
R116	470,5%, ¼w, carbon film	
R117	33k, 5%, ¼w, carbon film	RD-25RJ333 <b>D</b>
R118	100, 5%, ½w, metal oxide	
R119	1.5k, 5%, ¼w, carbon film	
R120	100k, 5%, ¼w, carbon film	
R121 R122	1k, 5%, ¼w, carbon film	
R123	82k, 5%, ¼w, carbon film	
R124	270, 5%, ¼w, carbon film	
R125	10k, 5%, ¼w, carbon film	RD-25RJ103D
R126	(not used)	
R127	68, 5%, ¼w, carbon film	
R128	100, 5%, ¼w, carbon film	
R129 R130	47, 5%, ¼w, carbon film	
R131	10, 5%, ½w, metal oxide	
R132	47k, 5%, ¼w, carbon film	
R133	1k, 5%, ¼w, carbon film	
R134	680, 5%, ¼w, carbon film	
R135	1.5k, 5%, ¼w, carbon film	
R136	100, 5%, ¼w, carbon film	
R137 R138	1.8k, 5%, ¼w, carbon film	
R139	470, 5%, ¼w, carbon film	
R140	100k, 5%, ¼w, carbon film	
R141	1k, 5%, ¼w, carbon film	
R142	4.7k, 5%, ¼w, carbon film	
R143	470, 5%, ¼w, carbon film	
R144	4.7k, 5%, ¼w, carbon film	
R145 R146	330, 5%, ¼w, carbon film	
R147	1.5k, 5%, ¼w, carbon film	
R148	27k, 5%, ¼w, carbon film	
R149	220, 5%, ¼w, carbon film	RD-25RJ221D
R150	47, 5%, ¼w, carbon film	
R151	22k, 5%, ¼w, carbon film	_
R152 R153	270k, 5%, ¼w, carbon film	
R154	68k, 5%, ¼w, carbon film	
R155	33k, 5%, ¼w, carbon film	
R156	47k, 5%, ¼w, carbon film	
R157	(not used)	
R158	100k, 5%, ¼w, carbon film	
R159	1.5k, 5%, ¼w, carbon film	
R160	1.0K, 070, 74W, Carbon IIIII	110-2010 1020

Designator	Description	Part No.
R161	22, 5%, ½w, metal oxide	RGHAPJ220B
R162	1k, 5%, ¼w, carbon film	RD-25RJ102D
R163	390, 5%, ¼w, carbon film	RD-25RJ391D
R164	10k, 5%, ¼w, carbon film	RD-25RJ103D
R165	820, 5%, ¼w, carbon film	RD-25RJ821D
R166	470, 5%, ¼w, carbon film	RD-25RJ471D
R167	27k, 5%, ¼w, carbon film	RD-25RJ273D
R168	3.3k, 5%, ¼w, carbon film	<b>RD</b> -25RJ332D
R169	220k, 5%, ¼w, carbon film	
R170	22k, 5%, ¼w, carbon film	
R171	150, 5%, ¼w, carbon film	
R172	2.2k, 5%, ¼w, carbon film	
R173	(not used)	
		PD 350 H00D
R174	10, 5%, ¼w, carbon film	
R175	10k, 5%, ¼w, carbon film	
R176	82, 5%, ¼w, carbon film	
R177	270, 5%, ¼w, carbon film	
R178	680, 5%, ¼w, carbon film	
R179	22k, 5%, ¼w, carbon film	RD-25RJ223D
R180	1.8k, 5%, ¼w, carbon film	
R181	18k, 5%, ¼w, carbon film	RD-25RJ183D
R182	100, 5%, ¼w, carbon film	RD-25RJ101D
R183	100, 5%, ½w, metal oxide	
R184	(not used)	
R185	1k, 5%, ¼w, carbon film	RD-25R I102D
R186 through R193	(not used)	
	, ,	DE OFFICOROR
R194	8.5%, 5w, cement	
R195	1.5k, 5%, ¼w, carbon film	RD-25RJ152D
R196 through		
R202	(not used)	
R203	560, 5%, ¼w, carbon film	RD-25RJ561N
RV101	10k notantiameter	DD CND10001
	10k, potentiometer	
RV102	2k, potentiometer	RP-GNB20201
T101	rf transformer	TR-10D4002T
T102	rf transformer	
T103	rf transformer	
T103		
-	rf transformer	
T105	rf transformer	
T106	rf transformer	
T107	rf transformer	
T108	rf transformer	
Γ109	rf transformer	
Τ110	rf transformer	TR-G25B001W
Γ111	rf transformer	
K101	11.8066 MHz crystal	
X102	10.695 MHz crystal	XA-S1B3002N
X103	10.240 MHz crystal	XA-S1B3001N
	host ciple for IC100	NAL 454A D000
	heat sink - for IC102	
	heat sink - for IC102heat sink - for Q113	

# Channel Selector P.C. Board

Reference		
Designator	Description	Part No
	channel selector p.c. board, complete	878928
	channel selector p.c. board, plated	
	and drilled	750070
C301	.01uF, 50V, ceramic disc	
C302	.22uF, 50V, mylar	
C303	.01uF, 50V, mylar	
C304 C305	.01uF, 50V, ceramic disc	
C306	.01uF, 50V, ceramic disc	
C307	.01uF, 50V, ceramic disc	
C308	.01uF, 50V, ceramic disc	
C309	.10uF, 16V, electrolytic	
C310	.0022uF, 50V, ceramic disc	
C311	.1uF, 50V, ceramic disc	
	47uF, 6V, electrolytic	
C312	.01uF, 50V, ceramic disc	
C313	1uF, 35V, tantalum	/22226
D301	IN270, germanium	765722
D302	IN5338B, zener	
Dood		
R301	1M, 10%, ¼w, carbon	
R302	1M, 10%, ¼w, carbon	
R303	1M, 10%, ¼w, carbon	
R304	1M, 10%, ¼w, carbon	
R305	1M, 10%, ¼w, carbon	
R306	1M, 10%, ¼w, carbon	
R307	1M, 10%, ¼w, carbon	
R308	100k, 5%, ¼w, carbon	
R309	680k, 5%, ¼w, carbon	
R310	330k, 10%, ¼w, carbon	
R311	330k, 10%, ¼w, carbon	
R312	330, 10%, ¼w, carbon	
R313	100, 10%, ¼w, carbon	
R314	3.3k, 10%, ¼w, carbon	
R315	22k, 10%, ¼w, carbon	
R316	22k, 10%, ¼w, carbon	
R317	3.3k, 10%, ¼w, carbon	
R318	2.2k, 10%, ¼w, carbon	
R319	30, 5%, 10w, ceramic	
R320	220, 10%, ¼w, carbon	
R321	4.7k, 10%, ¼w, carbon	
R322	4.7k, 10%, ¼w, carbon	
R323	4.7k, 10%, ¼w, carbon	
R324	4.7k, 10%, ¼w, carbon	
R325	4.7k, 10%, ¼w, carbon	/20155
T301	transformer, microphone	730036
11201	logic, CB	760100
U301		
U302 U303	PGM 1	
	MOIN /	/ 000//
U304	MC3340P Attenuator	

## Microphone P C Board

Reference Designator	Description	Part No.
	mic p.c. board, complete	
C401 C402 C403	330uF, 16V, electrolytic	720106
CR401 CR402	MV5274C, led, green	
D401	IN270, germanium	765722
Q401 Q402	(TEXAS INSTRUMENT) 2N3414(TEXAS INSTRUMENT) 2N3414	
R401 R402 R403 R404 R405 R406 R407 R408 R409 R410 R411 R412 R413 R414	390, 5%, ½w, carbon 10k, 10%, ¼w, carbon (not used) 8.2k, 10%, ¼w, carbon (not used) 820, 10%, ½w, carbon 470, 10%, ½w, carbon 10, 10%, ¼w, carbon 10, 10%, ¼w, carbon 15, 10%, ¼w, carbon	721301 721301 721301 721301 721301 721301 721301 720114 722258 721334 721316 720136
S2	switch, channel advance	700325
U401 U402 U403	14511 MAN74 MAN74	760107

# **Chassis-Mounted Components**

#### - Transceiver -

Reference Designator	Description	Part No.	
C1 C2 C3	220pF, 500V, mylar	. 721665	
J1 J2	jack, <b>antenna</b> jack, external speaker fuse, 3 ampere holder, fuse	. 650076 . 710029	
- Microphone -			
R416 R417	20k, ¼ w, potentiometer, (part of on/off switch) . 10k, ¼ w, potentiometer (sqelch control)		
S1 S	switch, DPPT pushbutton		

### **Mechanical Parts**

#### - Transceiver -

Part No.	Description Qty
870874 460092 460093 450308 620076	chassis, main frame       1         case, upper       1         case, lower       1         strain relief, power cord       1         cord, power, 2 lead       1
450308 650080	strain relief, transceiver cable
460156 460153 620073 460098 460098 460153 460154 450295	case, plastic (front)       1         case, plastic (rear)       1         cord, microphone coil       1         knob, volume control       1         knob, squelch control       1         button, push-to-talk       1         button, microphone hanger       1         filter, channel display       1

## **Accessory Parts**

350629	holder, microphone1
380279	bracket, connector mounting1