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Parts List



Main P.C. Board

Reference Designator	Description	Part No.
	main p c. board, complete	AP-TBM023ET
	main p c. board, plated and drilled	PT-BM023COX
C1	2pF, 50V, ceramic disc	CC-CB020COM
C2	.2pF, 50V, ceramic disc	CC-CB221KOM
C3	.6pF, 50V, ceramic disc	CC-CB060DOM
C4	.01uF, 50V, ceramic disc	CK-CB103PEM
C5	.01uF, 50V, ceramic disc	CK-CB103PEM
C6	1pF, 50V, ceramic disc	CC-CB010COM
C7	.01uF, 50V, ceramic disc	CK-CB103PEM
C8	.01uF, 50V, ceramic disc	CK-CB103PEM
C9	560pF, 50V, mylar	CQ-MB561KCH
C10	68pF, 50V, ceramic disc	CC-CB680KOM
C11	33uF, 16V, electrolytic	CE-ED330ALN
C12	220pF, 50V, ceramic disc	CC-CB221KOM
C13	270pF, 50V, ceramic disc	CC-CB271KOM
C14	(not used)	
C15	1000pF, 50V, mylar	CQ-MB102KCH
C16	82pF, 50V, ceramic disc	CC-CB820KOM
C17	.01uF, 50V, ceramic disc	CK-CB103PEM
C18	68pF, 50V, ceramic disc	CC-CB680KOM
C19	.01uF, 50V, ceramic disc	CK-CB103PEM
C20	(not used)	
C21	.022uF, 50V, mylar	CQ-MB223KCH
C22	22pF, 50V, ceramic disc	CC-CB220KOM
C23	.01uF, 50V, ceramic disc	CK-CB103PEM
C24	82pF, 50V, ceramic disc	CC-CB820KPM
C25	.01uF, 50V, ceramic disc	CK-CB103PEM
C26	.01uF, 50V, ceramic disc	CK-CB103PEM
C27	330pF, 50V, ceramic disc	CC-CB331KOM
C28	.01uF, 50V, ceramic disc	CK-CB103PEM
C29	120pF, 50V, ceramic disc	CC-CB121KOM
C30	220pF, 50V, ceramic disc	CC-CB221KOM
C31	.01uF, 50V, ceramic disc	CK-CB103PEM
C32	100pF, 500V, mica	CM-SD101KCS
C33	270pF, 500V, mica	CM-SD271KCS
C34	2pF, 500V, ceramic disc	CC-EE020COM
C35	.0047uF, 50V, ceramic disc	CK-CB472PEM
C36	1uF, 50V, electrolytic	CE-EG010ALN
C37	27pF, 50V, ceramic disc	CC-CB270KOM
C38	.01uF, 50V, ceramic disc	CK-CB103PEM
C39	.01uF, 50V, ceramic disc	CK-CB103PEM
C40	(not used)	
C41	12pF, 50V, ceramic disc	CC-CB120KOM
C42	.01uF, 50V, ceramic disc	CK-CB103PEM
C43	.01uF, 50V, ceramic disc	CK-CB103PEM
C44	2pF, 50V, ceramic disc	CC-CB020COM
C45	.01uF, 50V, ceramic disc	CK-CB103PEM
C46	47pF, 50V, ceramic disc	CC-CB470KOM
C47	.047uF, 50V, mylar	CQ-MB473KCH
C48	22pF, 500V, ceramic disc	CG-2H2R2KNN
C49	.047uF, 50V, mylar	CQ-MB473KCH
C50	.047uF, 50V, mylar	CQ-MB473KCH
C51	.047uF, 50V, mylar	CQ-MB473KCH
C52	.047uF, 50V, mylar	CQ-MB473KCH
C53	.015uF, 50V, mylar	CQ-MB153KCH
C54	.022uF, 50V, mylar	CK-CB223ZEM
C55	1uF, 50V, electrolytic	CE-EG010LAN
C56	4700pF, 50V, mylar	CQ-MB472KCH
C57	33uF, 25V, electrolytic	CE-EE3R3ALN
C58	10uF, 16V, electrolytic	CE-ED100ALN

Reference Designator	Description	Part No.
C59	.047uF, 50V, mylar	CQ-MB473KCH
C60	.047uF, 50V, mylar	CQ-MB473KCH
C61	27pF, 50V, ceramic disc	CC-CB270KPM
C62	560pF, 50V, mylar	CQ-MB561KCH
C63	68pF, 50V, ceramic disc	CC-CB680KOM
C64	.01uF, 50V, ceramic disc	CK-CB103PEM
C65	2200pF, 50V, ceramic disc	CK-CB222KBM
C66	.022uF, 50V, mylar	CQ-MB223KCH
C67	.01uF, 50V, mylar	CQ-MB103KCH
C68	220pF, 50V, ceramic disc	CK-CB222PEM
C69	3.9uF, 25V, tantalum	CS-SE3R9MDN
C70	.01uF, 50V, ceramic disc	CK-CBL03PEM
C72	.01uF, 50V, ceramic disc	CK-CB103PEM
C73	33uF, 6.3V, electrolytic	CE-EB330ALN
C74	100pF, 50V, ceramic disc	CC-CB101KOM
C75	.068uF, 50V, mylar	CQ-MB683KCH
C76	68pF, 50V, ceramic disc	CC-CB680KOM
C77	68pF, 50V, ceramic disc	CC-CB680KOM
C78	100pF, 50V, ceramic disc	CC-CB101KOM
C79	.068uF, 50V, mylar	CQ-MB683KCH
C80	47uF, 16V, electrolytic	CE-ED470ALN
C81	220uF, 10V, electrolytic	CE-EC221AMN
C82	33uF, 6.3V, electrolytic	CE-EB330ALN
C83	10uF, 16V, electrolytic	CE-ED100ALN
C84	1uF, 50V, electrolytic	CE-EG010ALN
C85	47uF, 16V, electrolytic	CE-ED470AMN
C86	1000uF, 16V, electrolytic	CE-ED102ZUN
C87	33uF, 6.3V, electrolytic	CE-ED330ALN
C88	.01uF, 50V, ceramic disc	CK-CB103PEM
C89	.01uF, 50V, ceramic disc	CK-CB103PEM
C90	.01uF, 50V, ceramic disc	CK-CB103PEM
C91	.047uF, 50V, ceramic disc	CK-CB473ZFM
C92	.047uF, 50V, ceramic disc	CK-CB473ZFM
C93	.047uF, 50V, ceramic disc	CK-CB473ZFM
C94	.047uF, 50V, ceramic disc	CK-CB473ZFM
C95	.047uF, 50V, ceramic disc	CK-DB473ZFM
C96	.01uF, 50V, ceramic disc	CK-CB103PEM
C97	22pF, 50V, ceramic disc	CC-CB220KOM
C98	(not used)	
C99	47pF, 50V, ceramic disc	CC-CB470KOM
CF	ceramic filter.....	FB-R455A08M
CH	audio choke coil.....	LJ-119H001Y
D1	SR1K-4	QD-SSR1KX4P
D2	RD9.1E, silicon, zener	QD-ZRD9EXAA
D3	VO6C, silicon	QD-SVO6CXXB
D4	1S1555, silicon	QD-SS1555XT
D5	1S1555, silicon	QD-SS1555XT
D6	1S1555, silicon	QD-SS1555XT
D7	1N60, germanium	QD-G1N60XXT
D8	1N60, germanium	QD-G1N60XXT
D9	1N60, germanium	QD-G1N60XXT
D10	1N60, germanium	QD-G1N60XXT
D11	1N60, germanium	QD-G1N60XXT
D12 through	(not used)	
D14		
D15	1S1555, silicon.....	QD-SS1555Xt
IC1	(TOSHIBA) TA7205P	QQM07205AT

Reference Designator	Description	Part No.
L1	rf coil	TR-10DD001T
L2	rf coil	TR-10ND001T
L3	rf coil	TR-10ND002T
L4	rf coil	TR-10CD002T
L5	rf coil	TR-10CD003T
L6	rf coil	TR-10CP001S
L7	rf coil	TR-A5CZ001M
L8	rf coil	TR-A5CZ002M
L9	rf coil	TR-A5CZ003M
L10	rf coil	TR-10MP003T
L11	rf coil	TR-10CA003T
L12	rf coil	TR-07MB001N
L13	rf coil	TR-07MB001N
L14	i-f transformer.....	TR-07LA004N
L15	i-f transformer.....	TR-07LA005N
L16	i-f transformer.....	TR-07LA023N
Q1	(NEC) 2SC839H(F)	QT-C0839XDA
Q2	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q3	(NEC) 2SC839(H)	QT-C0839XDA
Q4	(NEC) 2SC839(H)	QT-C0839XDA
Q5	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q6	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q7	(TOSHIBA) 2SC735(O).....	QT-C0735XBT
Q8	(SONY) 2SC1760-2.....	QT-C1760XCS
Q9	(NEC) 2SC1306	QT-C1306XZA
Q10	(MATSUSHITA) 2SC1318(Q).....	QT-C1318XDN
Q11	(MATSUSHITA) (2SA719(Q)	QT-A0719XCN
Q12	(HITACHI) 2SC460(A).....	QT-C0460CBB
Q13	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q14	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q15	(MITSUBISHI) 2SC710(C)	QT-C0710XAE
Q16	(NEC) 2SC839(H)	QT-C0839XDA
Q17	(NEC) 2SC945A(R)	QT-C0945AGA
Q18	(NEC) 2SC945A(R)	QTC0945ACA
Q19	(NEC) 2SC945A(R)	QT-C0945ACA
R1	3.9k, 5%, 1/4w, carbon film.....	RD-14SJ392D
R2	12k, 5%, 1/4w, carbon film	RD-14SJ123D
R3	330, 5%, 1/4w, carbon film	RD-14SJ331D
R4	47, 5%, 1/4w, carbon film	RD-14SJ470D
R5	1k, 5%, 1/4w, carbon film	RD-14SJ102D
R6	680, 5%, 1/4w, carbon film	RD-14SJ681D
R7	47, 5%, 1/4w, carbon film	RD-14SJ470D
R8	6.8k, 5%, 1/4w, carbon film.....	RD-14SJ682D
R9	(not used)	
R10	3.3k, 5%, 1/4w, carbon film.....	RD-14SJ332D
R11	47, 5%, 1/4w, carbon film	RD-14SJ470D
R12	470, 5%, 1/4w, carbon film	RD-14SJ471D
R13	6.8k, 5%, 1/4w, carbon film.....	RD-14SJ682D
R14	3.3k, 5%, 1/4w, carbon film.....	RD-14SJ332D
R15	470, 5%, 1/4w, carbon film	RD-14SJ471D
R16	100, 5%, 1/4w, carbon film	RD-14SJ101D
R17	3.9k, 5%, 1/4w, carbon film.....	RD-14SJ392D
R18	270, 5%, 1/4w, carbon film	RD-14SJ271D
R19	2.7k, 5%, 1/4w, carbon film.....	RD-14SJ272D
R20	5.6k, 5%, 1/4w, carbon film	RD-14SJ562D
R21	220, 5%, 1/4w, carbon film	RD-14SJ221D
R22	68, 5%, 1/4w, carbon film	RD-14SJ680D
R23	100, 5%, 1/4w, carbon film	RD-14SJ101D
R24	220, 5%, 1/4w, carbon film	RD-14SJ221D
R25	47, 5%, 1/4w, carbon film	RD-14SJ470D
R26	10, 5%, 1/2, metal oxide	RX-HANJ100N
R27	47k, 5%, 1/4w, carbon film	RD-14SJ473D

Reference Designator	Description	Part No.
R28	1k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ102D
R29	22, 5%, $\frac{1}{2}$ w, metal oxide.....	RG-HANJ220N
R30	1k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ102D
R31	390, 5%, $\frac{1}{2}$ w, carbon film.....	RD-14SJ391D
R32	3.3k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ332D
R33	330, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ331D
R34	1k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ102D
R35	33k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ333D
R36	680, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ681D
R37	220, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ221D
R38	1.8k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ182D
R39	560, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ561D
R40	470, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ471D
R41	1k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ102D
R42	4.7k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ472D
R43	470, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ471D
R44	47k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ473D
R45	470, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ471D
R46	3.3k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ332D
R47	12k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ123D
R48	22k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ223D
R49	220, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ221D
R50	47, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ470D
R51	22k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ223D
R52	47k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ473D
R53	68k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ683D
R54	47k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ473D
R55	33k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ333D
R56	820, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ821D
R57	100, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ101D
R58	5.6k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ562D
R59	3.3k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ332D
R60	2.2k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ222D
R61	820, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ821D
R62	47, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ470D
R63	220k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ224D
R64	27k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ273D
R65	22k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ223D
R66	150, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ151D
R67	10k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ103D
R68	82, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ820D
R69	270, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ271D
R70	680, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ681D
R71	22k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ223D
R72	1.8k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ182D
R73	15k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ153N
R74	270, 5%, $\frac{1}{2}$ w, metal oxide.....	RG-HANJ271N
R75	270, 5%, $\frac{1}{2}$ w, metal oxide.....	RG-JANJ271T
R76	15, 5%, 1w, metal oxide	RX-2ANJ150N
R77	3.3k, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ332D
R78	5.6, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ562D
R79	560, 5%, $\frac{1}{4}$ w, carbon film	RD-14SJ561D
R80	(not used)	
R81	1.5k, 5%, $\frac{1}{4}$ w, carbon film.....	RD-14SJ152D
R82 through		
R89	(not used)	
R90	270k, 5%, $\frac{1}{4}$ w, solid carbon	RC-14GK274N
R91 through		
R115	(not used)	
R116	270, 5%, $\frac{1}{2}$ w, metal oxide.....	RG-JANJ271N
RFC1	RF Choke Coil	LD-ADB4024B
RFC2	RF Choke Coil	LD-ADB4024B
RFC3	RF Choke Coil	LF-680KD01N
RFC4	RF Choke Coil	LD-150KD01N
RFC5	RF Choke Coil	LF-680KD01N
RFC6	RF Choke Coil	LQ-AHB3638L

Reference Designator	Description	Part No.
RV1	10k, potentiometer	RP-GNB10301
RV2	2k, potentiometer	RP-GNB20201
RV3	20k, potentiometer	RP-GNB20301
RV4	20k, potentiometer	RP-GNB20301
T1	transformer, audio	TB-G25B001W
X1 through X10	(see crystal p.c. board)	
X11	11.275 MHz crystal	XA-Z1A1002T
X12	11.730 MHz crystal	XA-Z1A2001T

Crystal P.C. Board

Reference Designator	Description	Part No.
	crystal p.c. board, complete.....	AP-TZX006BA
	crystal p.c. board, plated and drilled	PT-ZX006AOX
R1	5.6k, 5%, 1/4w, carbon film.....	RD-14SJ562D
S1	switch, rotary	SR-042405H
X1	23.290 MHz, crystal.....	XA-S3A1001T
X2	23.340 MHz, crystal.....	XA-S3A1002T
X3	23.390 MHz, crystal.....	XA-S3A1003T
X4	23.340 MHz, crystal.....	XA-S3A1004T
X5	23.490 MHz, crystal.....	XA-S3A1005T
X6	23.540 MHz, crystal.....	XA-S3A1006T
X7	14.950 MHz, crystal.....	XA-S1A1009T
X8	14.960 MHz, crystal.....	XA-S1A1010T
X9	14.970 MHz, crystal.....	XA-S1A1011T
X10	14.990 MHz, crystal.....	XA-S1A1012T

Power Supply P.C. Board

Reference Designator	Description	Part No.
	power supply p.c. board, complete.....	AP-TPW005AA
	power supply p.c. board, plated and drilled	PT-TW005COX
C1	2200uF, 25V, electrolytic	CE-T1E22201
C2	100uF, 25V, electrolytic	CE-AE101ALN
C3	.022uF, 50V, ceramic disc	CK-RB223PZM
C4	.01uF, 50V, ceramic disc	CK-RB103PZM
C5	.047uF, 50V, ceramic disc	CK-RB473PMM
C6	.022uF, 50V, ceramic disc	CK-RB223PMM
D1	VO6C, silicon	QD-SVO6CXXB
D2	VO6C, silicon	QD-SVO6VXXB
D3	VO6C, silicon	QD-SVO6CXXB
D4	VO6C, silicon	QD-SVO6CXXB
F1	fuse 250V, 1/4A	ZF-BQ75101U
Q1	(NEC) 2SC900F	QT-C0900XBA
Q2	(NEC) 2SC900F	QT-C0900XBA
R1	220, 5%, 1/2w, solid carbon	RC-12GK221N
R2	47, 5%, 1/2w, solid carbon	RC-12GK470N
R3	100, 5%, 1/2w, solid carbon	RC-12GK101N
R4	820, 5%, 1/2w, solid carbon	RC-12GK821N
R5	1.2k, 5%, 1/2w, solid carbon	RC-12GK122N
R6	820, 5%, 1/2w, solid carbon	RC-12GK820N
RV1	500, potentiometer.....	RP-ANB50101
ZD1	BZ-162, silicon, zener	QD-ZBZ162XJ
ZD2	RD5.6E(C), silicon, zener	QD-ZRD56EAA

Chassis Mounted Components

Reference Designator	Description	Part No.
C1	220pF, 50V, mica	CM-SD221KCS
C2	.01uF, 50V, ceramic disc	CK-DB103PEM
C3	.01uF, 50V, ceramic disc	CK-DB103PEM
C4	.01uF, 50V, ceramic disc	CK-DB103PEM
CR1	CR module	CR-E471A01M
F1	fuse, 250V, 2.5A	ZF-AQ25201U
J1	jack, antenna	YJ-C02S008Z
J2	jack, 5 pin, DIN, microphone	YJ-D05S001Z
J3	jack, phone	YJ-S03S010Z
J4	jack, phone	YJ-S04S002Z
J5	jack, DC power	YJ-B02S001U
J6	jack, AC power	YJ-A02S001U
M	meter	ZM-J2050N02
PL1	lamp, pilot	ZP-A064102U
PL2	lamp, pilot	ZP-A064102U
PL3	lamp, pilot	ZP-A064102U
Q3	(SANYO) 2SD313	QT-D0313XAC
S1	on/off power switch (part of volume control)	RV-AD503A04
SP	speaker, 8 ohm	ZQ-A0770802
VR1	50k, potentiometer (volume control)	RV-AD503A04
VR2	10k, potentiometer (squelch control)	RV-NA103B03
	transformer, power	TP-H68G001K

Mechanical Parts

Part No.	Description	Qty.
AM-3077##01	cabinet assembly, upper	1
AM-3077##02	cabinet assembly, lower	1
MB-871SZ009	chassis, main frame	1
MZ-111SZ002	bracket, speaker holding	1
AV-KNOB#044	knob, channel select	1
AV-KNOB#045	knob, volume and squelch	2
AV-KNOB#046	plate, channel	1
MB-763SZ003	panel, rear	1
MU-443SZ002	bracket, phone jack mounting	1
MU-443SZ001	bracket, mic jack mounting	1
MC-576XZ001	bracket, rotary switch mounting	1
AC-AC008ULA	cord, AC power	1
AC-DC034ULA	cord, DC power	1

Accessory Parts

Part No.	Description	Qty.
ZG-AAZ70101	microphone	1

Schematic Diagram [REDACTED]