



7ULTRA-A SCHEMATIC DIAGRAM

BILL OF MATERIAL FOR 7ULTRA-A

COVER ASSY.....		
SPEAKER 8 OHM 0.3W 66MM P-250.....		
(+)TAPPING SCREW(BH)T3X6-2S (+)BH ZN-PLAT.....	SPK MTG:3	
(+)TAPITTE SCREW(BH)T3X6 (+)BH BLK.....	UPPER.BOTTOM+	
	MAIN BODY:8	
COVER UPPER ABS 94HB BLK.....		
COVER BOTTOM ABS 94HB BLK.....		
HOLDER(SPK)SPC 16X8XT1.2.....	SPK MTG:3	
CUSHION 25X25XT5 RUBB.SPO.BLK STIC.....		
FELT .865XT0.3 FELT BLK.....		
FELT 10X110XT0.3 FELT STIC.....		
FELT 10X100XT0.3 FELT BLK.....	AIR VENT	
ESCUTCHEON ASSY.....		
(+)MACHINE SCREW(FH)M2.6X4 (+)FH ZN-PLAT.....		
NUT M7 BSBM.....		
E.S.C ABS94 L153-S9001 BLK(7ULTRA-A).....		
LENS ACRYL CLEAR.....		
KNOB(VOL.SQ) ABS 94HB BLK.....	95/08/18	
KNOB(DOWN) ABS 94HB BLACK.....	95/08/18	
KNOB(UP)ABS 94HB BLACK.....		
SPRING(COIL) SWP-3 &0.2.....		
FRONT BODY ASSY.....		
TRANSISTOR KTC2078(TO-220AB).....	Q704	
I.C KIA7217AP.....	IC401	
P.C.B SUB 54X27X1.6.....		
JACK EARPHONE DHJ-3T.....		
CONNECTOR CH-239(A) SW-1229.....		
CONNECTOR SCN-16-4 PCB(R).....		
MICA (FOR T.R 2SC2078).....		
BUSHING(FOR T.R 2SC2078).....		
VR10KB:15SK 161V.....	VR2	
VR 50KA:RK16311116B153A.....	VR1	
POWER CORD ASSY.....		
(+)MACHINE SCREW(BH)M3X10 (+)BH ZN-PLAT.....	TR:2	
(+)TAPPING SCREW(BH)T3X6-2S (+)BH ZN-PLAT.....	M.P+MAIN	
	BODY:4 HEAT SINK:1	
NUT M3-1S SS41 ZN-PLAT.....		
WASHER SPRING M3 ZN-PLAT.....	TR:2	
RIVET BLIND &3.2 ALB.....	NAME PLATE MTG:2	
BODY MAIN EGI T1.0 US COATING.....		
HOLDER(ANT MTG)SPTE 29X35XT0.3 NI-PLAT.....		
CORD STOPPER P.P BLK.....		
ESD PROTECTOR CUP T0.05 (TRC-499).....		
HEAT SINK ALP3 T2.....	IC MTG	
HEAT SINK ALP3 T2.....		
SHIELD HOUSHING SPTE T0.3.....		
NAME PLATE ALP3 40X20XT0.4 (7ULTRA-A).....		
MIC ASSY.....		
DISK CERAMIC 0.001UF DD330F10Z2 50V.....	C959	
MIC CONDENSER KUC4023-010010.....		
CURD CURLED 3CON 1SH 300MM BLK(KSK-23059).....		
CONNECTOR PLUG SW-1461.....		
WIRE 1007 AWG 24 11/0.16 WHT.....	MIC(-)--SW	
SW PUSH SPS-9522.....		
(-)SECURING SCREW M6X8 (P-1) ABS BLK.....	ACCESSORY	
(+)TAPPING SCREW(PH)T3X8-2S (+)PH ZN-PLAT.....	ACCESSORY	
(+)TAPPING SCREW(TH)T5X12-1S (+)TH ZN-PLAT.....	ACCESSORY	
(+)WOOD SCREW (R+FH)2.7X18-1S (+)R+FH NI-PLAT.....	COVER MTG:3	
WASHER 7X25X1.5T BLK RUBBER.....	ACCESSORY	
WASHER(LOCK" B"TYPE) M3 "B"ZN-PLAT.....	ACCESSORY	
ZN-PLAT.....	ACCESSORY	
(+)PLUS SCREW(PH)3X10(+)+PH ZN-PLAT.....	HOLDER MTG	
COVER BOTTOM ABS 94HB BLK.....		
COVER UPPER(MIC)ABS 94HB BLK.....		
BRACKET (MIC)SPC 58X41XT1 CR-PLAT.....		
BRACKET(SET)SPC T1.5 BLK-SPRAY PICA.....		
HOLDER(MIC)PC BLK.....		
PLATE WEIGHT SPC 36X24XT3 ZN-PLAT.....		
KNOB(LEVER)ABS 94HB GRAY.....		
WIRE CLAMP (CORD)NYLON.....		
HOLDER(MIC) RUBB.(UL)BLK.....		
BOX MIC SW1S 222(W)X70(D)X52(H).....		
POLYBAG P.P 100X100XT0.05.....	ACCESSORY	
POLYBAG P.P 100X200XT0.05.....		
MAIN PCB AUTO ASSY.....		
FILM RESISTOR 100 1/ 8W 5% ST.....	R410.513.707.709	
FILM RESISTOR 1K 1/ 8W 5% ST.....	R413.414.901	
FILM RESISTOR 10K 1/ 8W 5% ST.....	R399.411.431.	
	502.508.515.964	
FILM RESISTOR 100K 1/ 8W 5% ST.....	R404	
FILM RESISTOR 1.2K 1/ 8W 5% ST.....	R518	
FILM RESISTOR 150 1/ 8W 5% ST.....	R951-957	
FILM RESISTOR 150K 1/ 8W 5% ST.....	R701	
FILM RESISTOR 180 1/ 8W 5% ST.....	R962	
FILM RESISTOR 1.8K 1/ 8W 5% ST.....	R420	
FILM RESISTOR 22 1/ 8W 5% ST.....	R511	
FILM RESISTOR 2.2K 1/ 8W 5% ST.....	R401.402.403.408.963	
FILM RESISTOR 22K 1/ 8W 5% ST.....	R967	
FILM RESISTOR 2.2 1/ 8W 5% ST.....	R711	
FILM RESISTOR 270 1/ 8W 5% ST.....	R501	
FILM RESISTOR 2.7K 1/ 8W 5% ST.....	R426.959	
FILM RESISTOR 27K 1/ 8W 5% ST.....	R430	
FILM RESISTOR 270K 1/ 8W 5% ST.....	R428.516	
FILM RESISTOR 3.3K 1/ 8W 5% ST.....	R407.708	
FILM RESISTOR 390 1/ 8W 5% ST.....	R510.702	
FILM RESISTOR 3.9K 1/ 8W 5% ST.....	R406	
FILM RESISTOR 47 1/ 8W 5% ST.....	R425.902	
FILM RESISTOR 470 1/ 8W 5% ST.....	R512	
FILM RESISTOR 4.7K 1/ 8W 5% ST.....	R503.703.704.	
	705.960	
FILM RESISTOR 47K 1/ 8W 5% ST.....	R961	
FILM RESISTOR 470K 1/ 8W 5% ST.....	R400	
FILM RESISTOR 560 1/ 8W 5% ST.....	R504	
FILM RESISTOR 5.6K 1/ 8W 5% ST.....	R405.409	
FILM RESISTOR 68 1/ 8W 5% ST.....	R706	
FILM RESISTOR 6.8K 1/ 8W 5% ST.....	R517	
FILM RESISTOR 15K 1/ 8W 2% ST.....	R412	
AXIAL CERAMIC 0.001UF UPO50B102MK 50V.....	C404.426.427.	
	950.953.954	
	C402.425.501.	
	504.508.518.520.	
AXIAL CERAMIC 0.0022UF EP050Y222MN 16V.....	C410	
AXIAL CERAMIC 0.022UF RH050F 223Z 50V.....	C406.408.521.705.905	
AXIAL CERAMIC 220PF UPO50B221K 50V.....	C413.716	
DIODE ZENER 1N5239B 9.1V 0.5W (DO-35).....	D504	
DIODE ZENER 1N5231B 5.1V 0.5W (DO-35).....	D501	
DIODE 1N4148(R.L).....	D405.502.503.902.903	
DIODE RECTIFIER 1N4004T/R 400V 1A (DO-41).....	D404.701	
COIL AXIAL 2.2UH:LAL03TB2R2M.....	RFC704	
COIL AXIAL 6.8UH:LAL03TB6R8K.....	RFC509.706	
COIL AXIAL 0.39UH:LAL02TBR39K.....	RFC701	
MAIN PCB MANUAL ASSY.....		
METAL OXIDE RESISTOR15 2W 5% ST.....	R427	
FILM RESISTOR 10 1/ 2W 5% ST MINI.....	R999	
FILM RESISTOR 4.7K 1/ 2W 5% ST MINI.....	R712	
RESISTOR SEMIFIXED 10KB RVM083H H 8DIA.....	RV1	
RESISTOR SEMIFIXED 2K RVM083H.....	RV2	
ELECT CAPACITOR 0.1UF 50V 20% 5X11.....	C403.956	
ELECT CAPACITOR 10UF 16V 20% 5X11.....	C417.503.902	
ELECT CAPACITOR 100UF 16V 20% 8X11.....	C424	
ELECT CAPACITOR 10UF 16V 20% 4X7.....	C411	
ELECT CAPACITOR 1000UF 16V 20% 12X16.....	C423	
ELECT CAPACITOR 2.2UF 50V 20% 5X11.....	C707	
ELECT CAPACITOR 220UF 16V 20% 10X12.....	C422.514	
ELECT CAPACITOR 3.3UF 50V 20% 5X11.....	C416.421	
ELECT CAPACITOR 33UF 16V 20% 5X11.....	C407.412.415	
ELECT CAPACITOR 47UF 16V 20% 6X11.....	C430.515	
ELECT CAPACITOR 470UF 16V 20% 10X12.....	C502.510	
DISK CERAMIC 0.01UF HIK(B)F 103Z 50V.....	C721.722.723	
DISK CERAMIC 0.022UF F 223Z 50V.....	C711.714	
DISK CERAMIC 0.047UF X 473M 50V.....	C414.418	
AXIAL CERAMIC 0.047UF SA105E473MAA 50V.....	C405	
NPO100D 50V.....		
DISK CERAMIC 100PF NPO101K 50V.....	C712.718.999	
DISK CERAMIC 12PF NPO120K 50V.....	C513.903	
DISK CERAMIC 150PF SL 151K 50V.....	C715	
DISK CERAMIC 270PF SL 271K 50V.....	C420	
DISK CERAMIC 330PF SL 331K 50V.....	C717	
DISK CERAMIC 39PF NPO390K 50V.....	C704	
DISK CERAMIC 4PF NPO40D 50V.....	C706	
DISK CERAMIC 470PF SL 471K 50V.....	C713	
DISK CERAMIC 5PF NPO50D 50V.....	C506	
DISK CERAMIC 82PF NPO820K 50V.....	C708	
DIP TANTALUM 1UF 489D105X0025A125V.....	C957.958	
DIP TRIMMER 20PF 6DIA CVN.....	CT1	
TRANSISTOR KTC3194(O).....	Q701.702	
TRANSISTOR KTC3198(GR).....	Q400.401.505.507	
TRANSISTOR KTA1266(GR).....	Q402.501.502.	
	503.506	
TRANSISTOR KTC1006 (TO-92L).....	Q703	
I.C C5122A1P.....	IC501	
DIODE GE 1N60.....	D402.403	
CRYSTAL HC18U 10.240M 30PM.....	X1	
FILTER CERAMIC LTU455HT.....	CF2	
FILTER CERAMIC SK107M4-AC-20.....	CF1	
TRANSFORMER CHOKE EI-19.....	CH1	
TRANSFORMER POWER EI-24.....	T1	
COIL RF CHOKE 0.8UH SPRING.....	RFC401	
COIL SPRING 5X0.6X13.5T:R.....	RFC709	
COIL SPRING 3.4X0.55X8.5T:R.....	RFC705	
COIL RF CHOKE 10UH 10%.....	RFC707	
COIL IFT 455KHZ-A.....	L902	
COIL IFT 455KHZ-B.....	L903	
COIL 27MHZ RX ANT.....	L901	
COIL VCO.....	L501	
COIL RF PRE AMP A TX27MHZ.....	L701.702	
P.C.B MAIN 150 X121.5X1.6 94HB1/0.....		
MAIN PCB SMD ASSY.....		
F AMP MODULE ASSY.....		
CHIP RESISTOR 0 1/10W 5% T 2012.....	R200.219	
CHIP RESISTOR 100 1/10W 5% T 2012.....	R203	
CHIP RESISTOR 1K 1/10W 5% T 2012.....	R209	
CHIP RESISTOR 10K 1/10W 5% T 2012.....	R207	
CHIP RESISTOR 12K 1/10W 5% T 2012.....	R211	
CHIP RESISTOR 15K 1/10W 5% T 2012.....	R218	
CHIP RESISTOR 150K 1/10W 5% T 2012.....	R205	
CHIP RESISTOR 1.8K 1/10W 5% T 2012.....	R206	
CHIP RESISTOR 220 1/10W 5% T 2012.....	R212	
CHIP RESISTOR 22K 1/10W 5% T 2012.....	R213	
CHIP RESISTOR 3.3K 1/10W 5% T 2012.....	R210	
CHIP RESISTOR 33K 1/10W 5% T 2012.....	R217	
CHIP RESISTOR 3.9K 1/10W 5% T 2012.....	R202	
CHIP RESISTOR 470 1/10W 5% T 2012.....	R204.208	
CHIP RESISTOR 47K 1/10W 5% T 2012.....	R214.216	
CHIP RESISTOR 560 1/10W 5% T 2012.....	R201	
CHIP RESISTOR 82K 1/10W 5% T 2012.....	R215	
ELECT CAPACITOR 1UF 50V 20% 4X7.....	C209	
ELECT CAPACITOR 10UF 16V 20% 4X7.....	C204	
CHIP CERAMIC 0.001UF CM21 X7R102K 50V AT.....	C206	
CHIP CERAMIC 0.01UF CM21 X7R103K 50V AT.....	C201.203	
CHIP CERAMIC 0.047UF CM21 X7R473K 50V AT.....	C202.205.207.208	
TRANSISTOR KTA1504SY(SOT-23).....	Q204	
TRANSISTOR KTC3880SY(SOT-23).....	Q201.202.203	
DIODE GE 1N60.....	D201	
P.C.B IF MODULE 44X16.88X1.6 94HB1/1.....		
VCO MODULE ASSY.....		
CHIP RESISTOR 0 1/10W 5% T 2012.....	R600.609	
CHIP RESISTOR 10K 1/10W 5% T 2012.....	R606.607	
CHIP RESISTOR 120K 1/10W 5% T 2012.....	R603	
CHIP RESISTOR 22K 1/10W 5% T 2012.....	R608	
CHIP RESISTOR 220K 1/10W 5% T 2012.....	R604	
CHIP RESISTOR 2.7K 1/10W 5% T 2012.....	R605	
CHIP RESISTOR 47 1/10W 5% T 2012.....	R601	
CHIP RESISTOR 820 1/10W 5% T 2012.....	R602	
CHIP CERAMIC 0.01UF CM21 X7R103K 50V AT.....	C601.610.611	
CHIP CERAMIC 120PF CM21 CG 121J 50V AT.....	C608	
CHIP CERAMIC 18PF CM21 CG 180J 50V AT.....	C602	
CHIP CERAMIC 22PF CM21 CG 220J 50V AT.....	C603	
CHIP CERAMIC 220PF CM21 CG 221J 50V AT.....	C607	
CHIP CERAMIC 27PF CM21CG 270J 50V AT.....	C609	
CHIP CERAMIC 33PF CM21 CG 330J 50V AT.....	C606	
CHIP CERAMIC 47PF CM21 CG 470J 50V AT.....	C605	
TRANSISTOR KTC3875SY.....	Q602	
TRANSISTOR KTC3880SY(SOT-23).....	Q601.603	
DIODE VARICAP LV2209.....	D601	
P.C.B VCO MODULE 30.7 X16.88X1.6 94HB1/1.....		
LOW PASS FILTER MODU.....		
CHIP CERAMIC 220PF CM21 CG 221J 50V AT.....	C801.805	
CHIP CERAMIC 470PF CM21 CG 471J 50V AT.....	C802.803	
COIL SPRING 3.4X0.55X6.5T:R.....	L802	
COIL SPRING 3.4X0.55X7.5T:R.....	L803	
COIL SPRING 3.4X0.55X8.5T:R.....	L804	
P.C.B LPF MODULE 15.39X40.5 X1.6 94HB1/1.....		
4.5T SPRIN.COIL ASSY.....	L801	
COIL SPRING 3.4X0.55X4.5T:R.....		
CORE 1108-KA-058 M9DTH3.7X6.....		
RF AMP H/H MODULE.....		
CHIP RESISTOR 0 1/10W 5% T 2012.....	R107	
CHIP RESISTOR 100 1/10W 5% T 2012.....	R106.108	
CHIP RESISTOR 10K 1/10W 5% T 2012.....	R104	
CHIP RESISTOR 18 1/10W 5% T 2012.....	R103	
CHIP RESISTOR 330 1/10W 5% T 2012.....	R105	
CHIP RESISTOR 33K 1/10W 5% T 2012.....	R109.110	
CHIP RESISTOR 470 1/10W 5% T 2012.....	C112	
CHIP CERAMIC 0.01UF CM21 X7R103K 50V AT.....	C109	
CHIP CERAMIC 150PF CM21 CG 151J 50V AT.....	C108	
CHIP CERAMIC 220PF CM21 CG 221J 50V AT.....	C102	
CHIP CERAMIC 33PF CM21 CG 330J 50V AT.....	C104	
CHIP CERAMIC 47PF CM21 CG 470J 50V AT.....	C114	
CHIP CERAMIC 680PF CM21 CG 681J 50V AT.....	C104	
TRANSISTOR KTC3880SY (SOT-23).....	Q102.103	
DIODE SI CHIP KDS226 (SOT-23).....	D101	
P.C.B RF MODULE 39.25X16.88X1.6 94HB1/1.....		
6.5T SPRIN.COIL ASSY.....	L102.104	
COIL SPRING 3.4X0.55X6.5T:R.....		
CORE 1108-KA-058 M9DTH3.7X6.....		
PACKING ASSY.....		
BOX TRAY SW1S 222(W)X127(D)X52(H).....		
BOX INNER SW1S 224(W)X220(D)X54(H).....		
BOX OUT DW1E 355(W)X238(D)X206(H).....		
POLYBAG P.P 200X300XT0.05.....	SET:1 MANUAL:1	
MANUAL OWNER'S MANUAL OWNER'S.....		
CARD REGISTRATION ARTPAPER 158X342.....		
CARD BOARD.....		
CB RULE.....		
SCHEMATIC DIAGRAM WOODFREEPAPER 420X297.....		
CARD INFORMATION WOODFREEPAPER 98.5X150.....		
LABEL CAUTION.....		
LABEL FCC POLYESTER 67X10XT0.05.....		
SUB PCB ASSY.....		
FILM RESIST		