

Service Manual

MICRO COMPONENT SYSTEM WITH CD/MP3 PLAYER

TR-652AG



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DAT H.K. LIMITED

TAPE

AC 120V/ 230V

LOAD 8 OHM

BRAND : DAEWOO

ISSUE DATE : _____

MODEL NO : TR-652AG

TESTED BY : _____

NO	TEST ITEMS		TAPE	UNIT	NOMINAL	LIMIT	MESUREMENT		
							1	2	3
1	TAPE SPEED @ 3000Hz		ST-111	HZ	3000	+3/-2 %			
2	WOW & FLUTTER (WRMS) CASS		ST-111	%	0.25	<0.4			
3	TAPE WINDING TIME F.FWD/REWIND		C-60	SEC.	160	180			
4	PLAY TORQUE		TW-2231	g-cm	30-60	30-90			
5	F.FWD / REW TORQUE		TW-2231	g-cm	30-60	30-90			
6	POWER OUTOUT 10% THD		STT-112	W	2	1.8			
7	S/N RATIO		STT-112	dB	40	35			
8	DISTORTION		STT-118	%	1.2	<3			
9	HUM/NOISE OUTPUT	@ VOL.MIN	BLANK	mV	0.6	3			
	BASS OFF	@ VOL.MAX.	TAPE 60	mV	20	30			
10	CHANNEL BALANCE		STT-112	dB	1.5	+/-3			
11	SEPARATION		STT-141	dB	30	25			
12	CROSSTALK		STT-121	dB	40	>30			
13	EARPHONE POWER OUTPUT @ 32 OHM IMPEDANCE	10%THD	STT-112	mW					
		MAX	STT-112	mW	35	25			
14	FALLOUT VOLTAGE (AC)			V	167	186			
15	FREQUENCY RESPONSE / STT-257 FREQ./Hz /dB		1K	dB	0	0			
			125	dB	+/-3	+/-6			
			6.3K	dB	+/-3	+/-6			

RECORD & PLAYBACK

NO.	TEST ITEMS		FREQ.	UNIT	NOMINAL	LIMIT	MESUREMENT		
							1	2	3
1	CHANNEL BALANCE		C-60	dB	0	+/-3			
2	ERASE RATIO S/N OFF MODULATION AT REF.OUTPUT (MIC CUT)		C-60	dB	30	>20			
3	RECORDING PLAYBACK LEVEL FM 22.5K 60dB IN		98MHz	dB	+/-3	+/-6			
4	RECORDING DISTORTION (FM 75KHz DEV. 60dB INPUT)		98MHz	%	6	<8			

BASS EFFECT

NO.	TEST ITEMS		FREQ.	UNIT	NOMINAL	LIMIT	MESUREMENT		
							1	2	3
1	BASS ON (125Hz SIGNAL INPUT)		STT-257	dB	8	6			

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FM

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REFERENCE	MOD.FREQ.	DEVIATION	SUPPLY VOLTAGE	LOAD	REF. O/P
			AC V		
	1KHz	22.5KHz	DC V	8 OHM	50mW

FM

NO.	TEST ITEMS	FREQ.	UNIT	NOMINAL	LIMIT	MEASUREMENT		
						1	2	3
1	TUNING RANGE	LOW	MHz	87.5	+/-0.5			
		HIGH	MHz	108.5	+/-0.5			
2	INTERMEDIATE FREQUENCY		MHz	10.7	+/-0.5			
3	MAX SENSITIVITY	@ 90 MHz	dBu	18	22			
		@ 98 MHz	dBu	18	22			
		@ 106MHz	dBu	18	22			
4	SENS.FOR 30dB S/N	@ 90 MHz	dBu	20	26			
		@ 98 MHz	dBu	20	26			
		@ 106MHz	dBu	20	26			
5	S/N RATIO @ 1mV INPUT	@ 98 MHz	dB	50	40			
6	IF REJECTION	@ 90 MHz	dB	55	45			
7	IMAGE REJECTION	@ 106MHz	dB	26	22			
8	-3dB LIMITING SENS.	@ 98 MHz	dB	18	22			
9	AFC HOLDING RANGE (-3dB)	@ 98 MHz	KHz	+/-200	+/-100			
10	AM SUPPRESSION @ 30% MOD/AM	@ 98 MHz	dB	35	30			
11	DISTORTION @ DEV 22.5KHz 60dB IN	@ 98 MHz	%	1	2			
12	FREQ.RESPONSE.-6dB W/O EMPHASIS	LOW	@ 98 MHz	Hz	80	100		
		HIGH	@ 98 MHz	KHz	2	4		
13	POWER OUTPUT @ 10% THD	@ 98 MHz	W	2	1.8			
14	HUM AT MIN VOLUM at 75KHZ%	@ 98 MHz	mV	0.6	3			
15		@ 98 MHz	dB					
16	FALLOUT VOLTAGE (AC)	@ 98 MHz	V	84				

DAT H.K. LIMITED

FM-ST

AC 120V /230V

LOAD 8OHM

BRAND : DAEWOO

ISSUE DATE : _____

MODEL : TR-652AG

TESTED BY : _____

	MOD.FREQ.	DEVIATION		SUPPLY VOLTAGE		LOAD	REFERENCE
CONDITIONS		MONO	STEREO	AC	V	(8 OHM)	OUTPUT
	1KHz	22.5KHz	75KHz	DC	V		50mW

NO.	TEST ITEMS		FREQ.	UNIT	NOMINAL	LIMIT	MEASUREMENT		
							1	2	3
1	STEREO SEPARATION 60dB I/P	60dB INPUT	@ 98MHz	dB	25	>20			
		30dB INPUT	@ 98MHz	dB	25	>20			
2	STEREO INDICATOR SENSITIVITY		@ 98MHz	dB	16	<26			
3	CHANNEL BALANCE		@ 98MHz	dB	0	+/-3			

REMARKS: L + R=45% , L - R=45% PILOT=10%

DAT H.K. LIMITED

AM

AC 120V

LOAD 8 OHM

BRAND : DAEWOO

ISSUE DATE : _____

MODEL NO : TR-652AG

TESTED BY : _____

REFERENCE	MOD. %		SUPPLY VOLTAGE	LOAD	MOD.FREQ.
	30%	1KHz	AC230V		
			DC12V	8 OHM	50mW

AM (MW)

REF. O/P

NO.	TEST ITEMS		FREQ.	UNIT	NOMINAL	LIMIT	MEASUREMENT		
							1	2	3
1	TUNING RANGE		LOW	KHz	522	+10			
			HIGH	KHz	1620	+30/-20			
2	INTERMEDIATE FREQUENCY			KHz	455	+/-5			
3	MAX SENSITIVITY		@ 600 KHz	dB/m	50	56			
			@ 1000KHz	dB/m	50	56			
			@ 1400KHz	dB/m	50	56			
4	SENS.FOR 20dB S/N		@ 600 KHz	dB/m	56	66			
			@ 1000KHz	dB/m	56	66			
			@ 1400KHz	dB/m	56	66			
5	S/N RATIO 5mV/m INPUT (100dB)		@ 1000KHz	dB	35	30			
6	IF REJECTION		@ 600 KHz	dB	50	40			
7	IMAGE REJECTION		@ 1400KHz	dB	40	30			
8	DISTORTION @MOD30 % 100dB/m		@ 1000KHz	%	2	5			
9	SELECTIVITY +/-10KHz		@ 1000KHz	dB					
10	FREQ.RESPONSE.6dB FREQ./Hz	LOW	@ 1000KHz	Hz	100	150			
		HIGH	@ 1000KHz	KHz	2.5	2			
11	POWER OUTPUT @ 10% THD		@ 1000KHz	W	2	1.8			
12	HUM/NOISE OUTPUT	MAX	@ 1000KHz	mV	---	---			
		MIN	@ 1000KHz	mV	---	---			
13	FALLOUT VOLTAGE (AC)		@ 1000KHz	V	84				

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AC 120V / 230V

LOAD 8 OHM

BRAND : DAEWOO

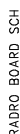
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MODEL NO : TR-652AG

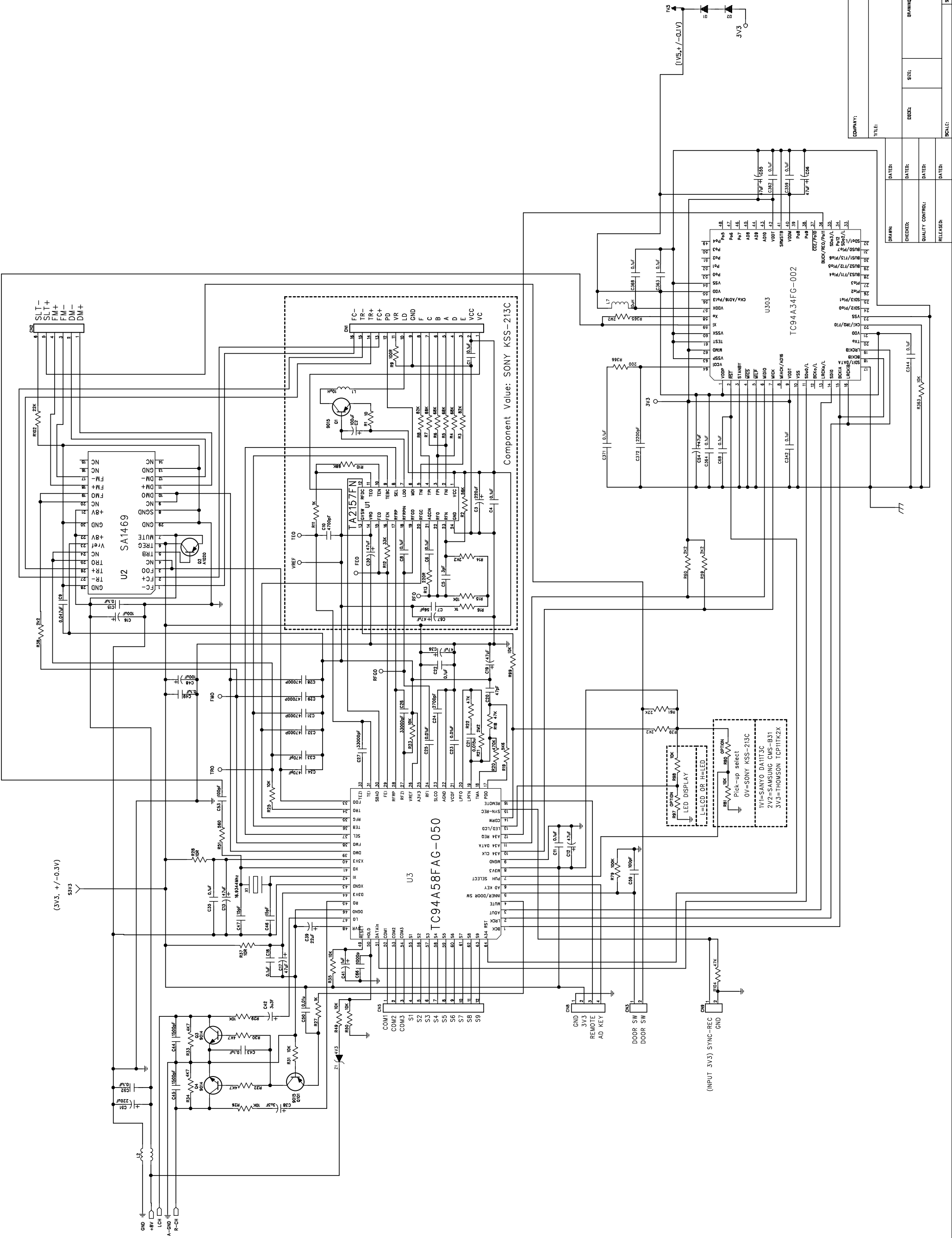
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ITEM	TEST ITEMS	UNIT	NOR.	LIMIT	TRUE		
1	FREQUENCY RESPONSE -6dB	Hz	63-20K	100-18K			
2	CHANNEL SEPARATION 1KHz (0dB)	dB	45	40			
3	SIGNAL TO NOISE RATIO (S/N)	dB	45	40			
4	HARMONIC DISTORTION 1KHz -10dB	%	0.7	1.5			
5	CHANNEL BALANCE	dB	0.5	1			
6	FINGERPRINTS (PHILIPS 444A)	um	75	65			
7	VERTICAL DEVIATION (MCD-151A)	mm	1.04	0.81			
8	ECCENTRICITY (A.BEX TEST TCD-713)	um	280	140			
9	INTERRUPTION (PHILIPS 444A)	uM	1000	800			
10	BLACK DOT (PHILIPS 444A)	um	800	600			
11	POWER OUT 10% THD 1KHZ 0dB	W	2	1.8			
12	CHANNEL LEVEL DIFFERENCE (1KHz 0dB TAPE)	dB					
13	DROP SUPPLY OPERATION (AC)	V	84				
14	RETRIEVE TIME (LEANING DROP OFF GROUND 45度)	SEC	5	7			
15	PLAY TIME (TOC:曲目)	SEC	6	10			
16							
17							
18							
19							
20							

注：所有测试未加CD虑波器

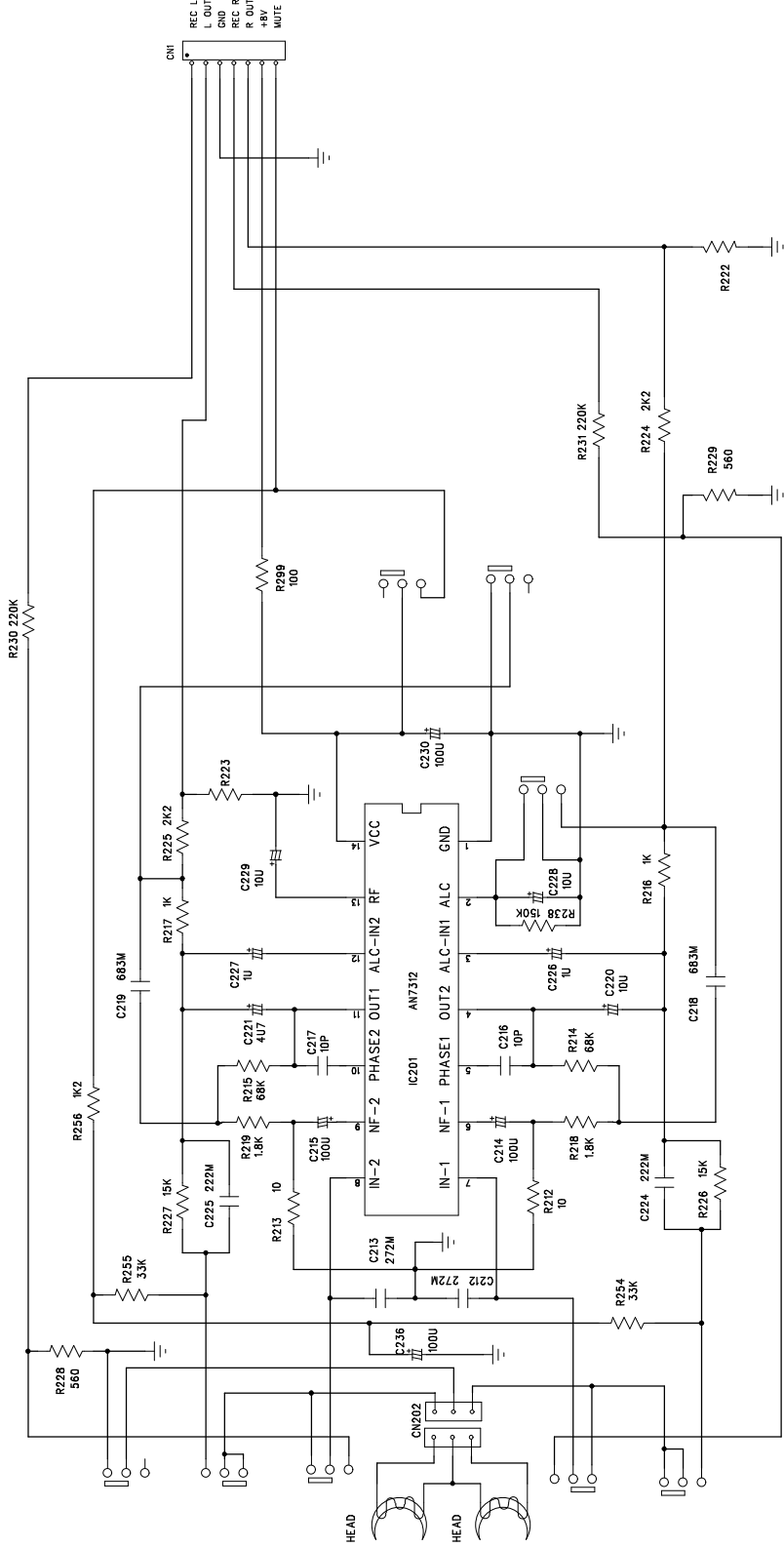


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	TITLE:			
	DATE:			
	CHECKED:			
	QUALITY CONTROL:			
	RELEASED:			

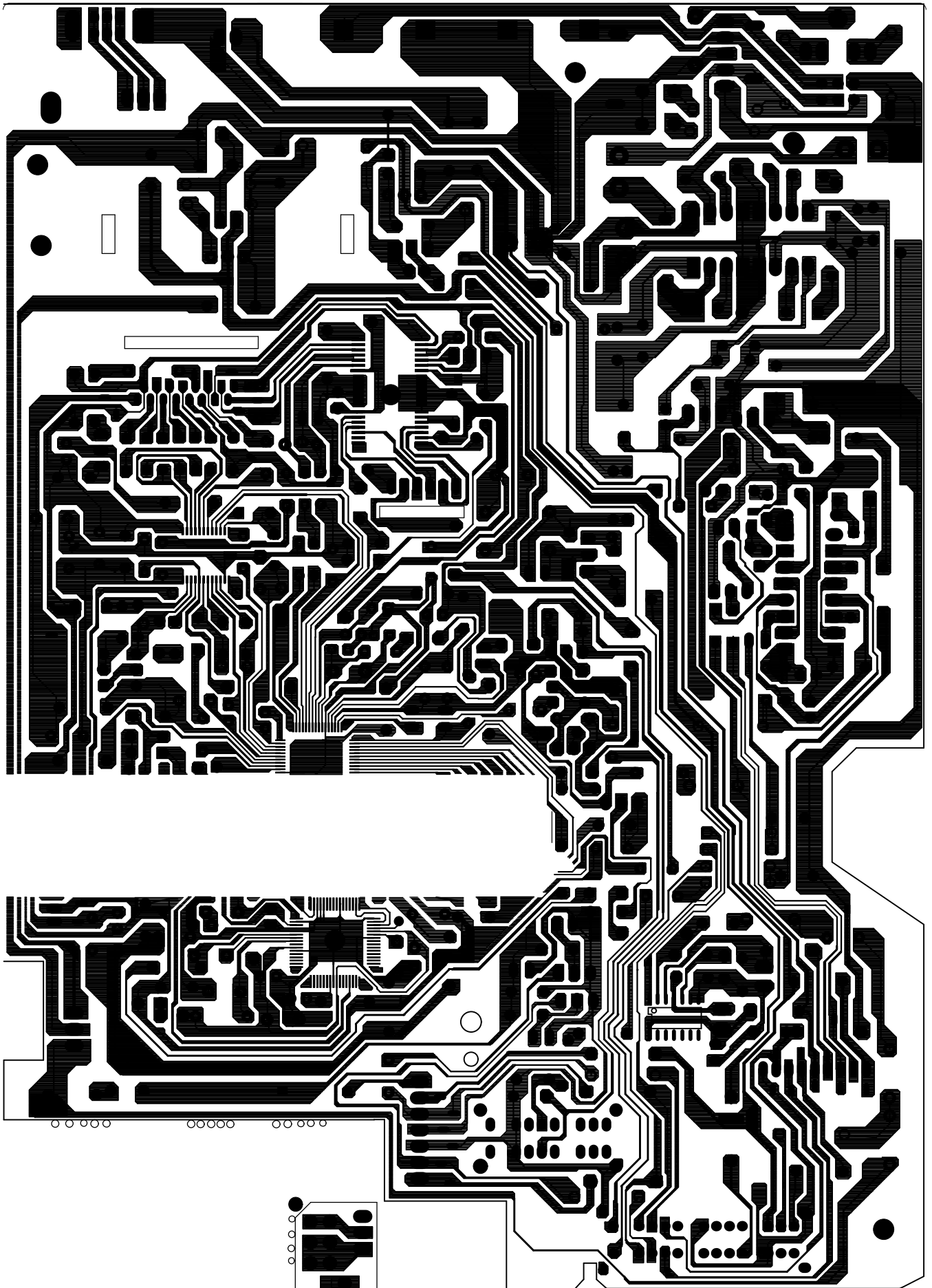


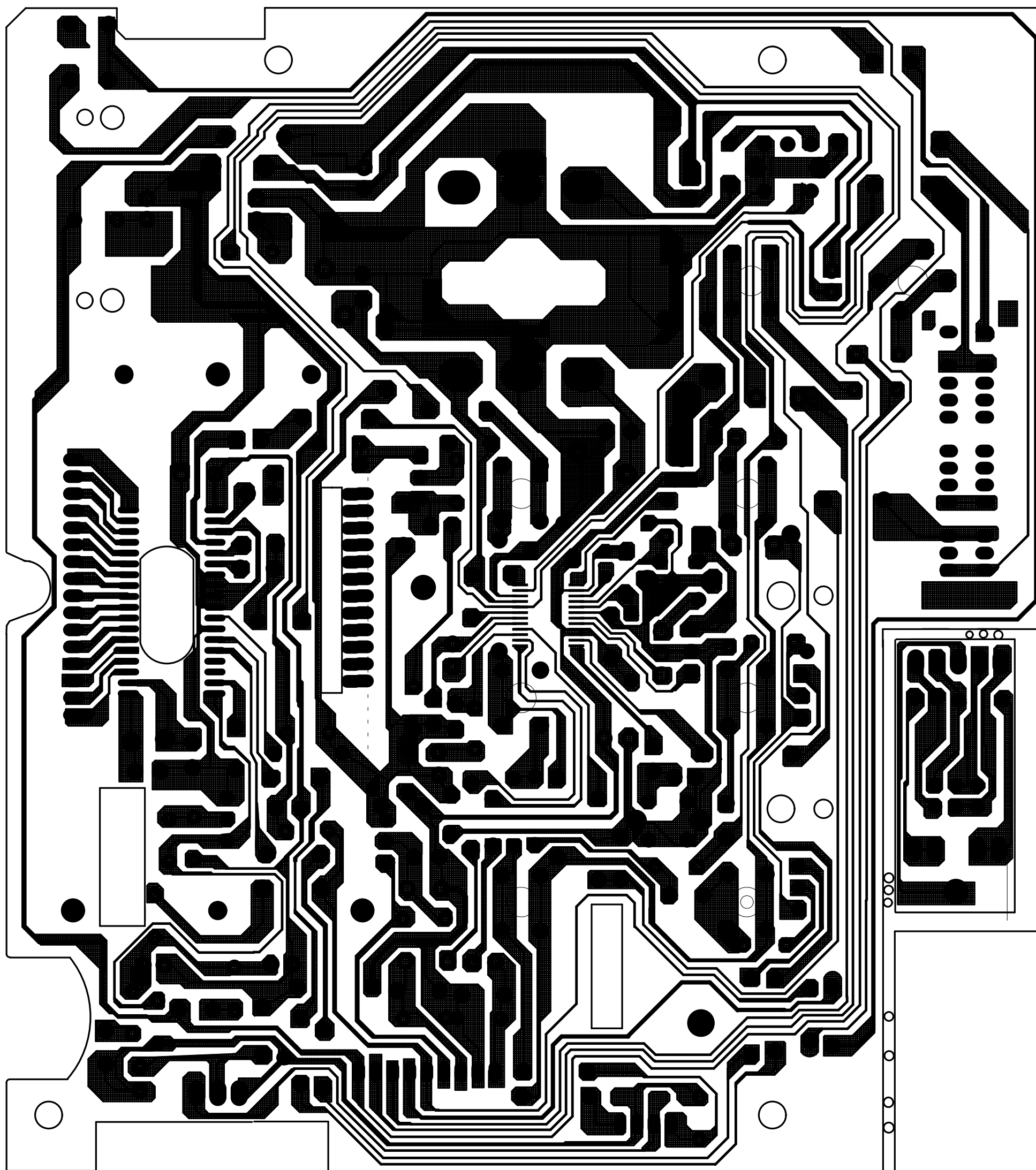
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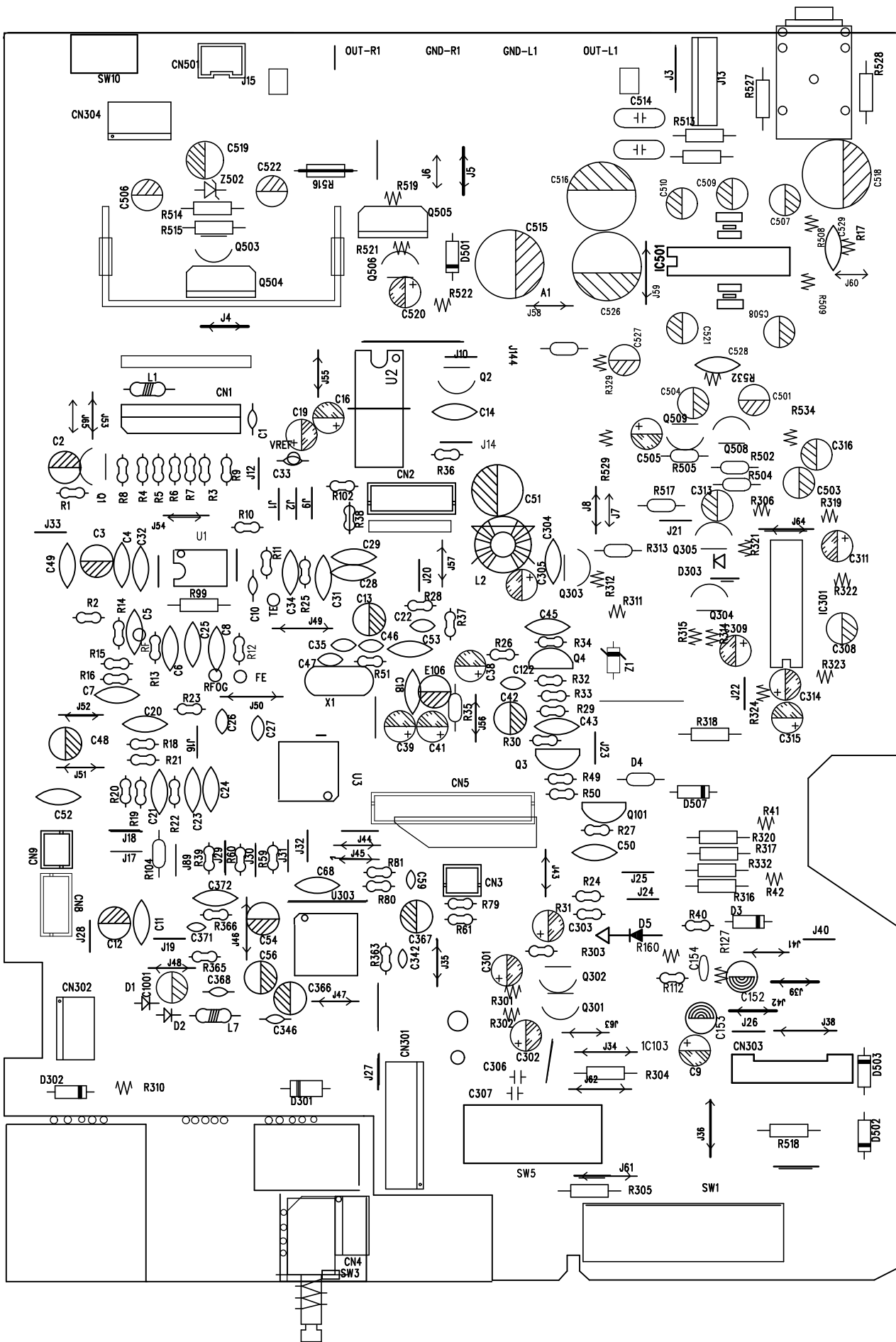
REVISION RECORD			
LTR	ECO NO.	APPROVED	DATE



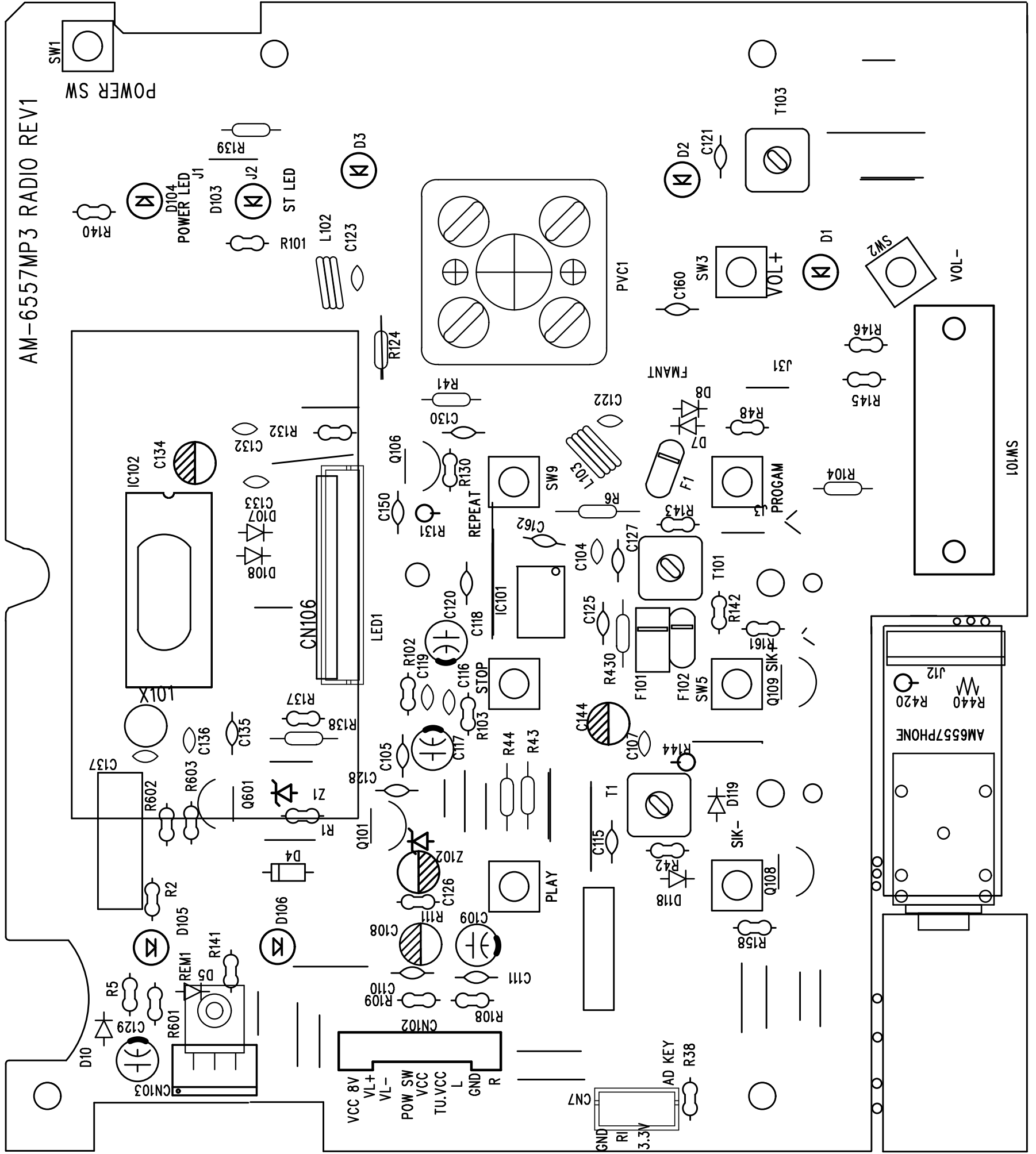
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QUALITY CONTROL:	DATED:	SCALE:	SHEET: OF
RELEASED:	DATED:		







R601 R602 R603 Q601 8MM



DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-01 主板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
1		AM-6557MP3 MAIN PCB(BA5417), 1-SIDE 94HB Rev.1 SIZE=198x142mm T=1.6mm	1	
2		ELECTROLYTIC CAPACITOR 电解电容		
3		ELECTROLYTIC CAPACITOR, 0.47μF/50V +/-20%	1	C152
4		ELECTROLYTIC CAPACITOR, 1μF/50V +/-20%	9	C41. 153. 308. 309. 313. 316. 501.505. 520
5		ELECTROLYTIC CAPACITOR, 3.3μF/50V +/-20%	2	C38.42
6		ELECTROLYTIC CAPACITOR, 4.7μF/50V +/-20%	1	C311
7		ELECTROLYTIC CAPACITOR, 10μF/25V +/-20%	1	C 301
8		ELECTROLYTIC CAPACITOR, 22μF/25V +/-20%	3	C39.302.303.
9		ELECTROLYTIC CAPACITOR, 47μF/16V +/-20%(小)	1	C13
10		ELECTROLYTIC CAPACITOR, 47μF/16V +/-20%	1	C19
11		ELECTROLYTIC CAPACITOR, 47μF/25V +/-20%	4	C54.56.509.E106
12		ELECTROLYTIC CAPACITOR, 100μF/16V +/-20%	12	C2. 3. 16. 48.503. 504.506. 507. 508. 510. 519.521
		ELECTROLYTIC CAPACITOR, 100μF/25V +/-20%	2	522.527
13		ELECTROLYTIC CAPACITOR, 220μF/16V +/-20%	2	C51.314
14		ELECTROLYTIC CAPACITOR, 470μF/10V +/-20%	1	C315
15		ELECTROLYTIC CAPACITOR, 470μF/16V +/-20%	3	C516.518.526
16		ELECTROLYTIC CAPACITOR, 1000μF/25V +/-20%	1	C515
17		CERAMIC CAPACITOR 瓷片电容		
		CERAMIC CAPACITOR, 3PF/50V +/-0.5 NPO	1	C5
		CERAMIC CAPACITOR, 15PF/50V +/-10% NPO	2	C46. 47
		CERAMIC CAPACITOR, 47PF/50V +/-10% NPO	1	C20
		CERAMIC CAPACITOR, 56PF/50V +/-10%	1	C7
		CERAMIC CAPACITOR, 470PF/50V +/-10%	2	C33. 34
		CERAMIC CAPACITOR, 100PF/50V +/-10%	1	C59

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ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
		CERAMIC CAPACITOR, 0.001 μ F/50V +80/-20%	2	C528.529
		CERAMIC CAPACITOR, 0.0015 μ F/50V +80/-20%	2	C43. 45
		CERAMIC CAPACITOR, 0.033 μ F/50V +80/-20%	1	C26
		CERAMIC CAPACITOR, 0.047 μ F/50V +/-10%	5	C28. 29. 31. 32. 49
21		CERAMIC CAPACITOR, 0.1 μ F/50V +80/-20%	21	C1. 4. 6. 8. 11. 14. 18. 22. 35. 50. 52. 122. 154. 304. 342. 346. 366. 367.368. 371. 1001
		MYLAR CAPACITOR, 0.0027 μ F/100V +/-10%聚脂电容	1	C24
		MYLAR CAPACITOR, 0.0047 μ F/100V +/-10%	1	C10
		MYLAR CAPACITOR, 0.01 μ F/100V +/-10%	2	C23. 25
22		MYLAR CAPACITOR, 0.015 μ F/100V +/-10%	1	C21
23		MYLAR CAPACITOR, 0.033 μ F/100V +/-10%	1	C27
		MYLAR CAPACITOR, 0.1 μ F/100V +/-10%	4	C306. 307. 514; C514旁
36		CARBON FILM RESISTOR, 碳膜电阻		
		CARBON FILM RESISTOR, 2.2 OHM +/-5% 1/8W	2	R513; R513旁
		CARBON FILM RESISTOR, 10 OHM +/-5% 1/8W	3	R1. 28. 37
		CARBON FILM RESISTOR, 33 OHM +/-5% 1/4W	1	J144
		CARBON FILM RESISTOR, 82 OHM +/-5% 1/8W	2	R508. 509
		CARBON FILM RESISTOR, 100 OHM +/-5% 1/8W	1	R9
		CARBON FILM RESISTOR, 150 OHM +/-5% 1/8W	1	R318
		CARBON FILM RESISTOR, 220 OHM +/-5% 1/8W	2	R13. 366
		CARBON FILM RESISTOR, 560 OHM +/-5% 1/8W	1	R514
37		CARBON FILM RESISTOR, 1K OHM +/-5% 1/8W	10	R11. 16. 27.304. 305. 306. 311. 322. 522; D4
		CARBON FILM RESISTOR, 1K OHM +/-5% 1/4W	1	R521
		CARBON FILM RESISTOR, 2.2K OHM +/-5% 1/8W	6	R14. 38. 39. 59. 60; C12

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ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
38		CARBON FILM RESISTOR, 33K OHM +/-5% 1/8W	10	R24.40.301. 302. 303. 312. 316. 317. 502. 505
40		CARBON FILM RESISTOR, 4.7K OHM +/-5% 1/8W	5	R25.30. 32. 323. 324
		CARBON FILM RESISTOR, 5.6K OHM +/-5% 1/8W	1	R19
		CARBON FILM RESISTOR, 6.8K OHM +/-5% 1/8W	1	R80
		CARBON FILM RESISTOR, 10K OHM +/-5% 1/8W	20	R15. 23. 31. 33. 34. 35. 49. 50. 81. 99. 112. 127. 310. 314. 320. 332. 363. 515.
		CARBON FILM RESISTOR, 20K OHM +/-5% 1/8W	2	R26. 29
42		CARBON FILM RESISTOR, 22K OHM +/-5% 1/8W	2	R61. 102
43		CARBON FILM RESISTOR, 27K OHM +/-5% 1/8W	2	R12. 321
44		CARBON FILM RESISTOR, 33K OHM +/-5% 1/8W	1	R504
45	——→	CARBON FILM RESISTOR, 47K OHM +/-5% 1/8W	5	R18. 22. 104. 532. 533
46		CARBON FILM RESISTOR, 56K OHM +/-5% 1/8W	1	R2
		CARBON FILM RESISTOR, 68K OHM +/-5% 1/8W	5	R4. 5. 6. 7. 10
47		CARBON FILM RESISTOR, 82K OHM +/-5% 1/8W	4	R3. 8. 529. 534
48		CARBON FILM RESISTOR, 100K OHM +/-5% 1/8W	3	R79. 315. 319
49		CARBON FILM RESISTOR, 470K OHM +/-5% 1/8W	2	R20. 160
53		CARBON FILM RESISTOR, 2.2M OHM +/-5% 1/8W	2	R21. 365
63		IC, PT2253A (DIP)	1	IC301
64		IC, BA5417 (SIP)	1	IC501
65		IC, SL SA1469PH (SOP)	1	U2
66		IC, TC94A58FAG-050 (QFP)	1	U3
67		IC, TC94A34FG-002 (QFP)	1	U303
68		IC, TA2157FN (SOP)	1	U1
69		IC, HEF4013BT (SOP)	1	IC103
70		ZENOR DIODE, 8V2 0.5W 稳压二极管	1	Z502
71		ZENOR DIODE, 3V3 0.5W	1	Z1
72		SILICON SWITCH DIODE, 1N4148	6	D502-503; D301-303; D507;J42

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ITEM: PCBA-01 主板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
73		RECTIFIER DIODE, IN5391	2	D1. 2
74		TRANSISTOR 三极管		
75		TRANSISTOR, S9014 (NPN)	10	Q3. 4. 301. 302. 304. 305. 503. 506. 508. 509
76		TRANSISTOR, S9015 (PNP)	2	Q1. 101
77		TRANSISTOR, A1020 (NPN)	2	Q2. 303
78		TRANSISTOR, NEC B772P	2	Q504. 505
79		CHOKE COIL, 10μH +/-10%	2	L1. 7
80		QUARTZ CRYSTAL, 16.9344MHz 2Pins 晶体(小)	1	X1
81		EXTERNAL CONNECTOR OUTLET, "WJ4-2" (RED/BLACKX2/RED) 接线座	1	OUT-R1/GND-R1/GND-L1/OUT-L1
82		ALUMINUM HEAT-SINK PLATE, SIZE=50X14X50mm T=1.5mm "H" "FORM	2	IC501 (FOR IC BA5417)
83		ALUMINUM HEAT-SINK PLATE, SIZE= 39x16x65mm(LxWxH) T=1.5mm 铝散热	1	Q504
84		IRON HEAT-SINK PLATE, SIZE=43x38mm(LxW) T=0.5mm W/2 HOLES	1	U2
85		SLIDE SWITCH, SK22F03M11 (GM-11 2P2T)	1	SW5
86		SLIDE SWITCH, SK63D01M11(GM-11 6P3T)	1	SW1
87		2-PINS PLUG, XH-2.5 V-TYPE 直立针插	1	CN501
88		2-PINS PLUG, PH-2.0 H-TYPE 弯式针插	1	CN3
89		3-PINS PLUG, XH-2.5 V-TYPE	1	CN302
90		4-PINS PLUG, PH-2.0 V-TYPE	1	CN8
91		5-PINS PLUG, XH-2.5 V-TYPE	1	J13
92		7-PINS PLUG, XH-2.5 V-TYPE	1	CN301
93		9-PINS PLUG, PH-2.0 V-TYPE	1	CN303
94		12-PINS PLUG, PH-2.0 V-TYPE	1	CN5
95		16-PINS FFC PLUG, PH-1.0 V-TYPE	1	CN1

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ITEM: PCBA-01 主板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
96		6-Pins FLAT WIRE ASS'Y, W/1 PLUG(PH=2.0) UL2651#28AWG L=180+4mm 6P单插排线	1	CN2 TO CD机芯
PREPARED BY: CHECKED BY: CHECK APPROVED BY:				

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-02 电源板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL REMARK
				人民币	港币	美元	人民币	港币	美元	
1		AM8555 POWER PCB, 1-SIDE 94VO Rev.01 SIZE=53X33mm T=1.6mm	1							
2		RECTIFIER DIODE, 1N5392 50V/2A	4							D1-4
3		GLASS TUBE FUSE, 250V/3.15AL SIZE=φ 5X20mm SLOW BLOW	1							FUSE1
4		FUSE HOLDER, FOR FUSE SIZE=φ5X20mm	2							FUSE1
5		CERAMIC CAPACITOR, 0.1μF/50V +80/-20%	5							C1. C2. C3. C4. C6
6		ELECTROLYTIC CAPACITOR, 2200μF/25V +/-20%	1							C5
7		2-PINS WIRE ASS'Y, W/1 PLUG(XH-2.5) UL1007#22AWG L=250+4mm 2P单插散线	1							CN1 TO 主板CN501
PREPARED BY: CHECKED BY: PE CHECKED BY: APPROVED BY:										

DAT H.K. LIMITED

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MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: OEA-01 电子组装物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
1		ELECTROLYTIC CAPACITOR, 10 μ F/25V +/-20%	1	卡式马达
2		ELECTROLYTIC CAPACITOR, 4.7 μ F/50V +/-20%	2	喇叭
3		SPEAKER TWIN WIRE, UL1007#22AWG L=1500+4x2mm (RED/BLACK) 喇叭双线	2	主板喇叭线 座 TO 音箱
4		2-Pins FLAT WIRE ASS'Y, W/1 PLUG(PH=2.0) UL1007#26AWG L=250+4mm 2P单插散线	1	CD 叶片开关 TO 主板CN3
5		3-PINS WIRE ASS'Y, W/1 PLUG(XH-2.5) UL1007#26AWG L=230+4mm 3P单插散线	1	卡式机芯 TO 主板 CN302
6		3-PINS SHIELDING WIRE ASS'Y, W/1 PLUG(XH-2.5) UL2547#28AWG L=200+4mm 3P单插屏蔽线	1	卡式机芯 TO 前置板 CN202
7		16-PINS FLAT WIRE, UL20624 PH=1.0mm L=150mm (WHITE)	1	主板 CN1 TO CD机芯
8		SINGLE WIRE, UL1007#22AWG L=100+4x2mm (BLACK)	1	AC插座 TO 转换开关 (跟PO)
9		SINGLE WIRE, UL1007#22AWG L=110+4x2mm (BLACK)	1	卡式马达 TO 叶片开关
10		SINGLE WIRE, UL1007#26AWG L=150+4x2mm (RED)	2	大---小喇叭
11		SINGLE WIRE, UL1007#26AWG L=150+4x2mm (BLACK)	2	大---小喇叭
12	——→	SINGLE WIRE, UL1007#26AWG L=1200+4mm (BLACK)	1	FM天线(收音板FM ANT)
13		LEAF SWITCH, LSA-34B 叶片开关	1	
14		CD MECHANISM, SAMSUNG CMS-B35BG6U 三星CD机芯(有珠)	1	
15		AUTO-STOP S-CASSETTE MECHANISM, (PLAY/RECORD) FRONT LOAD (HD=KEAP42II /230AN) MOTOR=EG-530AD-2B 12V DC H-TYPE W/6 KEYs	1	

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: OEA-01 电子组装物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
16		POWER TRANSFORMER, EI-48 110V/220V 14.5V 1.5A V-TYPE W/ L=200mmX2Pcs & L=250mmX2Pcs 火牛(立式)	1	跟客户要求
17		ROUND PAPER SPEAKER, 4" 4 OHM 8W Φ 60磁 喇叭(带泡边&黑帽&白纸盆)	2	同AM-7556FC
18		BUZZER, Φ 20mm BRASS 蜂鸣片(黄铜)	2	跟PO
19		SHOCK-FROOF RUBBER, 40° 防振胶	2	
20		SHOCK-FROOF RUBBER, 30° 防振胶	2	
21		AC SOCKET, AC插座	1	跟PO
22		POWER-SELECT-SWITCH, SS12J01 电源转换开关	1	跟PO
23		POWER CORD, L=6Ft 电源线	1	跟PO
PREPARED BY: CHECKED BY: PE CHECKED BY:				

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-05 耳插板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL REMARK
				人民币	港币	美元	人民币	港币	美元	
1		AM-6557MP3 H-PHONE PCB, 1-SIDE 94HB SIZE=14x32mm T=1.6mm	1							
2		CARBON FILM RESISTOR, 150 OHM +/-5% 1/8W	2							R420. 440
3		3.5MM H-PHONE JACK, EJ3507-202 (BLACK)	1							
4		5-PINS WIRE ASS'Y, W/1 PLUG(XH-2.5) UL1007#22AWG L=300+4mm 5P单插散线	1							J12 TO 主板J13
PREPARED BY: CHECKED BY: PE CHECKED BY: APPROVED BY:										

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: MA-01 结构物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
		HARDWARE PARTS 五金部分		
1		CD-DOOR SPRING CD门 弓	1	同A-818
2		CASS-DOOR SPRING 卡门 弓	1	同A-727
3		CASS-KNOB-DOOR SPRING 卡钮门 弓	1	
4		SPRAKER CLIP 喇叭码	16	
5		FIXED-PLATE 合壳连接片	10	同A-757
6		CD DOOR LOCK CD门锁	1	同AM-7555
7		MAGNETIC RING, 磁环	1	
8		IRON PLATE, FOR TAPE 录音铁片	1	
		SCREW PARTS 螺丝		
1		2x6PB	1	
2		2x10PA	1	
3		2x6PM	1	
4		2.6x4KM	2	
5		2.6x4PM	1	
6		2.6x8PA	8	
7		2.6x10PWA W=φ 10mm	4	
8		3x8PA	10	
9		3x10PA	21	
10		3x12PA	4	
21		3x8CA	10	
22		3x8PM	4	
23		3x8PWA W=φ 8mm	28	
24		3x10PWA W=φ 8mm	10	
25		3x12PWA W=φ 7mm	1	
26		3X8PA	2	

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: MA-01 结构物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
27		3x10KM	10	
		PLASTIC PARTS 塑胶部分		
1		FRONT CABINET 面壳	1	
2		FRONT PANEL 面板	1	面壳
3		CASS-DOOR 卡门	1	
4		CASS-KNOB COVER 卡钮盖	1	
5		DECORATED PLATE, FOR CASS-KNOB COVER 卡钮盖装饰片	1	
6		LENS, FOR FRONT PANEL 面板镜片	1	
7		CASS-DOOR LENS 卡门镜片	1	
8		DECORATED LENS 装饰镜片	1	
9		POWER KNOB 电源钮	1	
10		CD KNOB A CD钮A	1	
11		CD KNOB B CD钮B	1	
12		TUNING KNOB 调台钮	1	
13		VOLUME KNOB 音量钮	1	
14		BAND KNOB 波段钮	1	
15		FUNCTION KNOB 功能钮	1	
16		BASS KNOB 低音钮	1	
17		TUNING SHAFT 调台轴	1	
18		PRESS-COVER, FOR DECORATED PLATE 装饰片压盖	1	
19		LCD HOLDER LCD支架	1	
20		PCB HOLDER PCB 支架	1	
21		CASS-DOOR BRACKET 卡门支架	1	同AM-7555
22		CASS-KNOB (6PCS/1SET) 卡钮 (6Pcs/Set)	1Set	
23		CD DOOR CD门	1	同AM-7555
24		CD HOLDER CD座	1	同AM-7555

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: MA-01 结构物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
25		BACK CABINET 后壳	1	同AM-7555
26		DAMPING GEAR 牙轮	2	同AM-7955
27		DAMPING-GEAR HOLDER 牙轮支架	2	同AM-7955
28		TAPE-PCB BRACKET 录音板支架	1	通用
29		MAIN PCB LINK HOOK	1	同AM-7555
30		CD LENS DUSTPROOF COVER CD头防尘盖	1	通用
31		AC SOCKET COVER AC插座盖	1	通用
32		POWER-EXCHANGE-SWITCH COVER 电源转换开关盖	1	通用 (依P0而定)
		SOUND BOX 音箱部分		
1		WOODEN-BOX 木箱	2	
2		PLASTIC SPEAKER 1.6" 塑胶喇叭	2	
3		CLOTH NET 布网	2	
4		BRAND-PLATE 铭牌	2	
5		CLOTH-NET HOLDER 布网架	2	
6		B-DECORATED RING 大装饰圈	2	
7		S-DECORATED RING 小装饰圈	2	
		PACKING PART & OTHERS 包装&其它		
1		RUBBER FOOT, SIZE=φ 13x2mm 胶脚	4	同A-757
2		RUBBER FOOT, SIZE=5X6X2mm 卡钮门胶	2	

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: MA-01 结构物料

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	SYMBOL REMARK
3		RESTORE RUBBER, SIZE=14X14X19mm 回力胶(单面背胶)	1	固定天线引线
4		TINFOIL CAP, ϕ 19mm 亮帽	2	塑胶喇叭
5		TINFOIL CORE, ϕ 39(外径)X14(内径)mm (BLACK) 锡箔锥心	2	塑胶喇叭
6		PVC PLATE, W/GLUE SIZE=15X10mm 后牌	1	UNDER VIDEO&AUDIO
7		OPTICAL FILTER, SIZE=32x33X0.5mm 滤光片	1	LCD背面
8		POLYBAG, FOR SOUND BOX 音箱胶袋	2	同A-757
9		POLYBAG, FOR MAIN UNIT 主机胶袋	1	
10		POLYFOAM 发泡胶	1	
11		GIFT BOX, SIZE=541x286x315mm 彩盒	1	
12		INSTRUCTION MANUAL 说明书	1	
PREPARED BY: CHECKED BY: PE CHECKED BY:				

DAT H.K. LIMITED

BILL OF MATERIAL

试产BOM

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: F01(目录)

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME AND DESCRIPTION	Usage	单价			总价			REMARK
				人民币	港币	美元	人民币	港币	美元	
1	PCBA-01	AM-6557MP3 MAIN PCBA(BA5417) 主板半成品	1							5Pcs
2	PCBA-02	AM-8555 POWER PCBA 电源板半成品	1							1Pcs
3	PCBA-03	AM-6557MP3 RADIO PCBA 收音板半成品	1							4Pcs
4	PCBA-05	AM-7555 TAPE PCBA 前置板半成品	1							2Pcs
5	PCBA-06	AM-6557MP3 H-PNONE PCBA 耳插板半成品	1							1Pcs
6	REM-01	AM-7731MP3(94A58) REMOTE CONTROL 遥控器	1							2Pcs
7	OEA-01	OTHER ELECTRONIC MATERIALS 电子组装物料	1							2Pcs
8	MA-01	MECHANICAL PARTS 结构部分	1							4Pcs
REMARK		结构部分同AM-6557, 不重发. ←							总计	21Pcs
PREPARED BY: _____ CHECKED BY: _____ APPROVED BY: _____										

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-04 前置板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL	REMARK
				人民币	港币	美元	人民币	港币	美元		
1		AM-7555 TAPE PCB, 94HB 1-SIDE Rev.1 SIZE=89X65mm T=1.6mm	1								
2		ELECTROLYTIC CAPACITOR 电解电容									
3		ELECTROLYTIC CAPACITOR, 1 μ F/50V +/-20%	2							C226, 227	
4		ELECTROLYTIC CAPACITOR, 100 μ F/16V +/-20%	4							C230, 236, 214, 215	
5		ELECTROLYTIC CAPACITOR, 10 μ F/25V +/-20%	4							C221, 228, 220, 229	
6		CERAMIC CAPACITOR, 10PF/50V +/-10% NPO	2							C216, 217	
7		MYLAR CAPACITOR 聚脂电容									
8		MYLAR CAPACITOR, 0.0022 μ F/100V +/-10%	2							C224, 225	
9		MYLAR CAPACITOR, 0.068 μ F/100V +/-10%	2							C218, 219	
10		MYLAR CAPACITOR, 0.0027 μ F/100V +/-10%	2							C212, 213	
11		CARBON FILM RESISTOR 碳膜电阻									
12		CARBON FILM RESISTOR, 1K OHM +/-5% 1/8W	2							R216, 217	
13		CARBON FILM RESISTOR, 1M OHM +/-5% 1/8W	1							R238	
14		CARBON FILM RESISTOR, 10 OHM +/-5% 1/8W	2							R212, 213	
15		CARBON FILM RESISTOR, 100 OHM +/-5% 1/8W	1							R299	
16		CARBON FILM RESISTOR, 1.2K OHM +/-5% 1/8W	1							R256	
17		CARBON FILM RESISTOR, 1.8K OHM +/-5% 1/8W	2							R218, 219	
18		CARBON FILM RESISTOR, 18K OHM +/-5% 1/8W	2							R226, 227	
19		CARBON FILM RESISTOR, 2.2K OHM +/-5% 1/8W	2							R224, 225	
20		CARBON FILM RESISTOR, 22K OHM +/-5% 1/8W	4							R222,223,254, 255	
21		CARBON FILM RESISTOR, 220K OHM +/-5% 1/8W	2							R230, 231	
22		CARBON FILM RESISTOR, 68K OHM +/-5% 1/8W	2							R214, 215	

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-04 前置板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL	REMARK
				人民币	港币	美元	人民币	港币	美元		
23		CARBON FILM RESISTOR, 680 OHM +/-5% 1/8W	2							R222.	228
24		IC, AN7312 (DIP)	1							IC201	
25		PUSH SWITCH, "PS92D01" (9P2T) NON-SHORTING TYPE	1							SW201	
26		3-PINS PLUG, XH-2.5 V-TYPE 直立针插	1							CN202	
27		SINGLE WIRE, UL1007#26AWG L=40+4X2mm (RED)	1							CN202 TO C213	
28		7-PINS FLAT WIRE ASS'Y, W/1 PLUG(XH-2.5) UL2651#28AWG L=200+4mm 7P单插排线	1							CN201 TO 主板	CN301
PREPARED BY: CHECKED BY: PE CHECKED BY: APPROVED BY:											

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-03 收音板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
1		AM-6557MP3 RADIO PCB, 1-SIDE 94HB Rev.1 SIZE=122x137mm T=1.6mm	1	
2		ELECTROLYTIC CAPACITOR 电解电容		
3		ELECTROLYTIC CAPACITOR, 1 μ F/50V +/-20%	4	C108. 109. 117. 118
4		ELECTROLYTIC CAPACITOR, 220 μ F/16V +/-20%	1	C144
5		ELECTROLYTIC CAPACITOR, 4.7 μ F/50V +/-20%	1	C127
6		ELECTROLYTIC CAPACITOR, 47 μ F/25V +/-20%	2	C126. 134
7		CERAMIC CAPACITOR 瓷片电容		
8		CERAMIC CAPACITOR, 0.01 μ F/50V +80/-20%	2	C160. 162
9		CERAMIC CAPACITOR, 0.1 μ F/50V +80/-20%	6	C104. 115. 116. 128. 129. 135
10		CERAMIC CAPACITOR, 0.047 μ F/50V +80/-20%	2	C105. 125
11		CERAMIC CAPACITOR, 100PF/50V +/-10%	2	C132. 133
12		CERAMIC CAPACITOR, 150PF/50V +/-10%	1	C121
13		CERAMIC CAPACITOR, 22PF/50V +/-10%	4	C107. 122. 136. 137
14		CERAMIC CAPACITOR, 3PF/50V +/-0.5 NPO	1	C130
15		CERAMIC CAPACITOR, 30PF/50V +/-10% NPO	1	C123
16		CERAMIC CAPACITOR, 330PF/50V +/-10%	1	C119
17		CERAMIC CAPACITOR, 5PF/50V +/-0.5 NPO	1	C120
18		MYLAR CAPACITOR, 0.02 μ F/100V +/-10% 聚脂电容	2	C110. 111
19		CARBON FILM RESISTOR, 碳膜电阻		
20		CARBON FILM RESISTOR, 1K OHM +/-5% 1/8W	5	R42. 43. 145. 146.602
21		CARBON FILM RESISTOR, 1M OHM +/-5% 1/8W	2	R158. 161
22		CARBON FILM RESISTOR, 10 OHM +/-5% 1/8W	1	R6
23		CARBON FILM RESISTOR, 10K OHM +/-5% 1/8W	1	R38
24		CARBON FILM RESISTOR, 100 OHM +/-5% 1/8W	2	R104. 131
25	→	CARBON FILM RESISTOR, 100 OHM +/-5% 1/4W	1	R141

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-03 收音板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
26		CARBON FILM RESISTOR, 1.2K OHM +/-5% 1/8W	1	R44
27		CARBON FILM RESISTOR, 1.5K OHM +/-5% 1/8W	1	R132
28	——→	CARBON FILM RESISTOR, 150 OHM +/-5% 1/4W	1	R139
29		CARBON FILM RESISTOR, 2K OHM +/-5% 1/8W	1	R1
30	——→	CARBON FILM RESISTOR, 2.2K OHM +/-5% 1/4W	1	R2
31		CARBON FILM RESISTOR, 22K OHM +/-5% 1/8W	1	R40
32		CARBON FILM RESISTOR, 220K OHM +/-5% 1/8W	1	R130
33		CARBON FILM RESISTOR, 3.3K OHM +/-5% 1/8W	1	R103
34		CARBON FILM RESISTOR, 33K OHM +/-5% 1/8W	1	R41
35		CARBON FILM RESISTOR, 330 OHM +/-5% 1/8W	1	R142
36		CARBON FILM RESISTOR, 470 OHM +/-5% 1/8W	1	R111
37		CARBON FILM RESISTOR, 470K OHM +/-5% 1/8W	1	R430
38		CARBON FILM RESISTOR, 51K OHM +/-5% 1/8W	3	R48. 108. 109
39		CARBON FILM RESISTOR, 5.6K OHM +/-5% 1/8W	2	R138.R603
40		CARBON FILM RESISTOR, 560 OHM +/-5% 1/8W	3	R101. 140.601
41		CARBON FILM RESISTOR, 68K OHM +/-5% 1/8W	1	R143
42		SILICON SWITCH DIODE, IN4148	8	D4. 5. 7. 8. 107. 108. 118. 119
43		ZENER DIODE, 3V3 0.5W	1	Z1
44		ZENER DIODE, 3V9 0.5W	1	Z102
45		RED LED, Φ3mm L=27mm 普通红色LED	2	D103. 104
46		BLUE LED, EXTRA-BRIGHTNESS Φ3mm Pin L=27mm 超亮蓝色LED	3	D1-3
47		BLUE LED, EXTRA-BRIGHTNESS Φ5mm Pin L=27mm 超亮蓝色LED	2	D105. 106
48		LCD, CS2284-IST TRANSMISSIVE-TYPE SIZE=58x31mm 12Pins&16Pins 全透式LCD	1	LED1 (AM-6557MP3)
49		INFRARED RECEIVER, KSM-9803CM 银色接收头	1	REM1

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-03 收音板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
50		TRANSISTOR, S9014 (NPN)	1	Q101
51		TRANSISTOR, S9015 (PNP)	3	Q108, 109,601
52		TRANSISTOR, S9018 (NPN)	1	Q106
53		IC, TA2111FN (SOP)	1	IC101
54		BONDING IC PCBA, SL SC3610D	1	IC102
55		CERAMIC FILTER, L10.7A RED POINT 3Pins	1	F102
56		CERAMIC FILTER, SFU455B 3 Pins	1	F101
57		QUARTZ CRYSTAL, 32.7688KHz SIZE=Φ 3x8mm 2Pins 石英晶体	1	X101
58	→	BAND-PASS FILTER, BP87108 (87-108MHz) 3Pins 带通 滤波器	1	F1
59		CHOKE COIL, 100μH +/-10% 色环电感	1	R102
60		AM IF, 7810 7mm (PINK)	1	T1
61		FM IF, 788 7mm (YELLOW)	1	T101
62		AM OSC, 22 7mm (RED) H=6mm	1	T103
63		SPRING COIL, 2T5 ID=5.0 WD=0.8MM	1	L102
64		SPRING COIL, 3T5 ID=5.0 WD=0.8MM	1	L101
65		PVC, "CBM-443DF" 2-BAND AM=126PFx2 FM=20PFx2 MOUNTING SHAFT=4mm	1	PVC1
66		AM ANTENNA COIL, 120:20T OD=10.5mm WIRE L=120mmX4	1	
67		FERRITE BAR, SIZE=Φ 10x100mm (YELLOW) 黄色磁棒	1	
68		FERRITE-BAR BRACKET, HXLXW=39.5X12X5.9mm	2	
69		SLIDE SWITCH, SS62H01M11 (6P2T)	1	SW101
70		TACT SWITCH, "KFC-A06-01G6" SIZE=6.2X6.2X6mm V-TYPE	9	VOL-. VOL+. PROGAM. SK+. SK-. REP. STOP. PLAY. POWER

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: MP3&CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: PCBA-03 收音板半成品

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	SYMBOL REMARK
71		4-PINS FLAT WIRE ASS'Y, W/1 PLUG(PH-2.0) UL2651#28AWG L=240+4mm 4P单插排线	1	CN7 TO 主板CN8
72		9-PINS FLAT WIRE ASS'Y, W/1 PLUG(PH-2.0) UL2651#28AWG L=200+4mm 9P单插排线	1	CN102 TO 主板CN303
73		12PINS FLAT WIRE ASS'Y, W/1 PLUG(PH-2.0) UL2651#28AWG L=340+4mm 12P单插排线	1	CN106 TO主板CN5
PREPARED BY: CHECKED BY: CHECK APPROVED BY:				

DAT H.K. LIMITED

BILL OF MATERIAL

MODEL NO: TR-652AG

CATEGORY: CD PLAY+SINGLE CASSETTE & (FM/AM) SYSTEM

ITEM: 遥控器 (同AM-7731MP3东芝IC)

Rev.: 1.0

日期: 2005-07-19

ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL REMARK
				人民币	港币	美元	人民币	港币	美元	
1		AM-7731MP3(94A58) REMOTE PCB, 1-SIDE 94HB SIZE=68X36mm T=1.6mm	1							
2		IC, SC9243S (SOP) FOR REMOTE	1							
3		INFRARED EMITTING LED, SE303A-C ϕ 5mm	1							
4		CERAMIC FILTER, CRB 455E 455KHz 2Pins	1							X801
5		TACT SWITCH, JTP-1230 SIZE=6X6X5mm V-TYPE PLASTIC SHAFT 轻触开关(立式)	8							
6		TRANSISTOR, S8050 (NPN)	1							Q801
7		SILICON SWITCH DIODE, 1N4148	1							D801
8		CARBON FILM RESISTOR, 2.2 OHM +/-5% 1/4W	1							R802
9		CARBON FILM RESISTOR, 6.8K OHM +/-5% 1/4W	1							R801
10		CERAMIC CAPACITOR, 100PF/50V +/-10%	1							C802
11		CERAMIC CAPACITOR, 100PF/50V +/-10% NPO	1							C801
12		ELECTROLYTIC CAPACITOR, 47 μ F/16V +/-20%	1							C803
13		SINGLE WIRE, UL1007#26AWG L=30+4X2mm (WHITE)	1							VCC1+ TO BAT+
14		SINGLE WIRE, UL1007#26AWG L=30+4X2mm (BLACK)	1							GND1 TO BAT-
15		FRONT CABINET 面壳	1							(15-26项)同AM-7731MP3(SMT)
16		BOTTOM CABINET 底壳	1							
17		DECORATE LENS 装饰镜	1							
18		BATTERY DOOR 电池门	1							
19		FUNCTION KNOB 1 功能按钮1 (SKIP+ / SKIP-)	1set							
20		FUNCTION KNOB 2 功能按钮2 (PLAY / STOP)	1set							

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ITEM	PART NO	MAT'L NAME & DESCRIPTION	Usage	单价			总价			SYMBOL REMARK
				人民币	港币	美元	人民币	港币	美元	
21		FUNCTION KNOB 3 功能按钮3 (REPEAT / PORG)	1set							
22		FUNCTION KNOB 4 功能按钮4 (FF / FR)	1set							
23		BATTERY CONTACT PLATE- 电池负片	1							
24		BATTERY CONTACT PLATE+ 电池正片	1							
25		BATTERY CONTACT PLATE-/+ 电池连片	1							
26		BOLYBAG, FOR REMOTE CONTROL 遥控器胶袋	1							
PREPARED BY: CHECKED BY: PE CHECKED BY: APPROVED BY:										

