

Service Manual

MICRO COMPONENT SYSTEM WITH CD/MP3 PLAYER

RG-361



DAT H.K. LIMITED

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CD PLAYING SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

DATE: 2005.01.31

MODEL: RG-361

MEASURING ITEMS		CONDITION	UNIT	NOMINAL	LIMIT	SAMPLE	TEST CONDITION
CD MAX. OUTPUT POWER			MW	2500	2300	2500	TCD-782/TCD-784 0dB
CD 10% THD OUTPUT POWER			MW	2000	1800	1800	TCD-782/TCD 784 0dB
CD LINE OUT VOLTAGE			V	--			0dB 1KHZ TCD-782
MAX. O/P DIS(BASS BOOST .OFF)		1KHZ. 0dB	%	23	28	26	TCD-782/TCD 784 0dB
THD AT ReB OUTPUT		1KHZ	%	1	--		TCD-782 W/LOW PASS
SEPARATION		1KHZ	dB	40	35	40	TCD-782/TCD-784 (SPK O/P)
S/N RATIO		1KHZ	dB		>50	>50	TCD-782/TCD-784 (SPK O/P)
INTERRUPTIONS	SCRATCH		MM	0.8	0.6	0.8	PHILIPS #5A/444A
	BLACK DOT		MM	0.8	0.6	0.8	PHILIPS #5A/444A
	FINGER PRINT		MM	ALL	CLEAR	ALL	PHILIPS #5A/444A
DYNAMIC RANGE			dB		>45		TCD-782 (SPK O/P)
INITIAL. READING TIME			SEC.		<8	6	TCD-782
ACCESS TIME	FIRST TRACK		SEC.		<5	4	TCD-782
	LAST TRACK		SEC.		<14	12	
VERTICAL DEVIATION			MM		0.8		TCD-732R
HUM & NOISE		MIN. VOL.	MV		<3	1	TCD-782 TNO.8/TCD-784 TNO.7 BASS BOOST OFF,TONE MAX.
		MAX. VOL	MV		<10	1.5	
SHOCK ABILITY		CENTER	qm		>100		TENSION GUAGE IMPACT UNIT WITHOUT INTERRUPTION
TCD-782 TNO.1 & 23		CORNERS	qm		>100		
FREQ. RESPONSE 1KHZ=0dB		63HZ	dB				TCD-782 (SPK O/P) BASS BOOST OFF
		127HZ	dB		+/-3	+1	
		1KHZ	dB		0	0	
		6.3KHZ	dB				
		8KHZ	dB				
		10KHZ	dB	0	+ -3	0	
		20KHZ	dB				

REMARK : OTHER SPEC ARE SUBJECT TO CD MECHANISM SPECIFY.

CASSETTE RECORDING SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

DATE: 2005.01.31
MODEL: RG-361

MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	SAMPLE	TEST CONDITION
R/P MAX. OUTPUT POWER		MW	2500	2300	2600	MTT-112BN/TCC-140
R/P 10% DIST. O/P POWER		MW	2000	1800	1800	MTT-112BN/TCC-140
R/PMAX. O/P DIS	1KHZ. 0dB	%	18	25	22	MTT-112BN/TCC-140
DIST.AT STANDARD O/P		%	4	8	7	MTT-118N/TCC-142
R/P DIFFERENCE		dB		<3	2	MTT-118N/TCC-142
R/P SEPARATION		dB	35	28	28	MTT-114N/TCC-194
R/P S/N RATIO		dB	25	22	25	MTT-112BN/TCC-140
R/P ERASE RATIO		dB	25	22	24	MTT-112BN/TCC-140
R/P CH BALANCE		dB		<3	1	MTT-118N/TCC-142
REC.LEVEL VS TAPE SAT.	FM:DOM.22.5KHZ.1KHZ	dB	0	+/-3		
	FM:DOM.45KHZ.1KHZ	dB	0	+/-3		
	CD:-10dB.1KHZ	dB	0	+/-3		
	CD:-20dB.1KHZ	dB	0	+/-3		
ALC REC.DISTORTION		%				+30dBV OF S.R.L.
R/P FREQ. RESPONSE						MTT-256R/TCC-181A
1KHZ=0dB	63HZ	dB				VOL AT 75% POSITION
	125HZ	dB		+/-6	-1	
	315HZ	dB				
	1KHZ	dB		0	0	
	6.3KHZ	dB		+3-4	+3	
	8KHZ	dB		+3-6		
	10KHZ	dB				

REMARK : OTHER SPEC ARE SUBJECT TO CASS. MECHANISM SPECIFY.

CASSETTE PLAYBACK SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

DATE: 2005.01.31

MODEL: RG-361

MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	SAMPLE	TEST CONDITION
MAX. OUTPUT POWER		MW	2500	2300	2500	MTT-112BN/TCC-140
10% THD DIST. O/P POWER		MW	2000	1800	2000	MTT-112BN/TCC-140
MAX. O/P DIS(BASS BOOST OFF)	1KHZ. 0dB	%	18	25	22	MTT-112BN/TCC-140
DIST.AT Reb O/P		%	1	3	3	MTT-118N/TCC-142
TAPE SPEED		%	+2/-1	+3/-2		MTT-111N/TCC-112
WOW &FLUTTER		%	0-2	0.35		MTT-111N/TCC-112
L/R CH SEPARATION		dB	35	30	32	MTT-114N/TCC-194
TRACK CROSS TALK		dB	60	50		____ MTT-121N, * W/B.P.F. . ____ MTT-141N, * W/O B.P.F.
HUM & NOISE	MIN. VOL	MV	1	3	1.3	MTT-501
	MAX. VOL	MV	20	60	43	BASS BOOST OFF
S/N RATIO		dB	35	30	33	MTT-112BN/MTT-501
WINDING TIME	F . FWD.	SEC		<170		C-60 TYPE
	F . REW.	SEC		<170		
L/R CH. DIFFERENCE		dB	0	<3		MTT-118N/TCC-142
FORWARD /REVERSE DIFF.		dB	--	--		MTT-118N/TCC-142
CASS. TAPE A/B O/P DIFF		dB	--	--		MTT-118N/TCC-142
TORQUE	PLAY	q-cm		35-70		TORQUE METER
	F . FWD.	q-cm		>55		
	F . REW.	q-cm		>55		
FREQ . RESPONSE 1KHZ=0dB	63HZ	dB				MTT-256R/TCC-181A
	125HZ	dB		+/-3	-1	
	315HZ	dB				
	1KHZ	dB		0	0	
	6.3KHZ	dB		+/-3	+4	
	8KHZ	dB		+6		
	10KHZ	dB				
LEVEL BALANCE	PHONO	dB				180MV RMS. PHONO
	AUX/CD	dB				180MV RMS. AUX/CD
	FM	dB		0		45KHZ DEV. IMV
	AM	dB		<3		60% MOD. 74dB/M
	CASS	dB		<3		MTT-112BN 0dB
	CD	dB		-5/+3		-10dB 1KHZ
BASS BOOST EFFECT	125HZ	dB	8	6	6	BASS BOOST FROM OFF TO ON

REMARK : OTHER SPEC ARE SUB JECT TO CASS. MECHANISM SPECIFY.

FM MPX SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

DATE: 2005.01.31

MODEL: RG-361

MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	SAMPLE	TEST CONDITION
MAX.SENSITIVITY	90MHZ	dB	--	--		75KHZ DEV
	98MHZ	dB	--	--		
	106MHZ	dB	--	--		
-30dB S/N SENS.	90MHZ	dB	24	30		
	98MHZ	dB	24	30		
	106MHZ	dB	24	30		
STEREO SEPARATION	100HZ	dB	26	20		WITH 19KHZ FILTER
	1kHz	dB	26	20	25	
	10KHZ	dB	26	20		
STEREO LIGHT SENS.	98MHZ	dB	24	30		
PILOT SIGNAL REJECTION	98MHZ	dB	40	35		75KHZ DEV.1MV
STEREO S/N RATIO	98MHZ	dB	--	--		75KHZ DEV.1MV WITH 19KHZ FILTER
MONO/STEREO O/P DIFFERENCE	98MHZ	dB	0	<3		
THD AT STANDARD OUTPUT	98MHZ	%	3	<5		WITH 19KHZ FILTER
ST-VCO FREQ.TEMP.DRIFT	76KHZ	HZ				AT 25°C +/-25°C
MIN.PILOT SIGNAL LEVEL		%	5	7		ST.LED START LIGHT UP

REMARK: MOD.	DESCRIPTION	L+R	L-R	PILOT
.....		45%	45%	10%

MEMORY BACK UP SPECIFICATION

MEASURING ITEMS	UNIT	NORMAL	LIMIT		TEST CONDITION
MEMORY BACKUP CURRENT WITH BATTERY	mA	--	--		DISCONNECT AC POWER
TUNER PRESET STATION BACK UP TIME	MIN	--	--		DISCONNECT AC POWER AND WITHOUT BATTERY

FM RADIO SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

DATE: 2005.01.31

MODEL: RG-361

MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	SAMPLE	TEST CONDITION
FREQUENCY RANGE	LOW END	MHZ	87. 50	+/-0.3	87. 4	
	HIGH END	MHZ	108. 50	+/-0.3	108. 4	
INTERMEDIATE FREQ		MHZ	10. 7	+/-0.1	10. 7	
MAX.SENSITIVITY	90MHZ	dB	16	20	18	
	98MHZ	dB	16	20	17	
	106MHZ	dB	16	20	17	
-30dB QUIETING SENSITIVITY	90MHZ	dB	22	26	22	
	98MHZ	dB	22	26	22	
	106MHZ	dB	22	26	23	
DIAL CALIBRATION	ALL POINTS	MHZ		<0.5		
IMAGE REJECTION	90MHZ	dB	26	20		
	98MHZ	dB	26	20		
	106MHZ	dB	26	20		
I.F. REJECTION	90MHZ	dB	65	55		
SPURIOUS REJECTION	98MHZ	dB	55	45		
-3dB LIMITING SENS	98MHZ	dB	25	30		
-3dB AFC HOLDING RANGE	98MHZ	KHZ	450	350-600		
AM SUPPRESSION	98MHZ	dB	40	30		
RF OVERLOAD DIST.	98MHZ	%	3	5		100dB 75KHZ DEV
10% DIST. O/P POWER	98MHZ	MW	2000	1800	1800	* 1KHZ ; ____400HZ 75KHZ DEV
MAX. O/P POWER	98MHZ	MW	2500	2300	2500	* 1KHZ ; ____400HZ 75KHZ DEV
MAX O/P DIST.(BASS BOOST OFF)	98MHZ	%	20	28	23	* 1KHZ ; ____400HZ 75KHZ DEV
-3dB AUDIO FIDELITY	LOW FREQ	HZ	200	250		75uS PRE-EMPHASIS
	HIGH FREQ	HZ	8.2K	6K		VOL AT 75%POSITION
S/N RATIO	98MHZ	dB	45	40	45	22.5KHZ DEV. 1MV
DIST .AT Reb O/P	98MHZ	%	1	3	2. 5	
MODULATION HUM	98MHZ	dB	50	40	42	22.5KHZ DEV. 100dB
AUTO TUNING SEEK SENS	90MHZ	dB	--	--		
	98MHZ	dB	--	--		
	106MHZ	dB	--	--		
AUTO SEEK ACCURACY		KHZ	--	--		

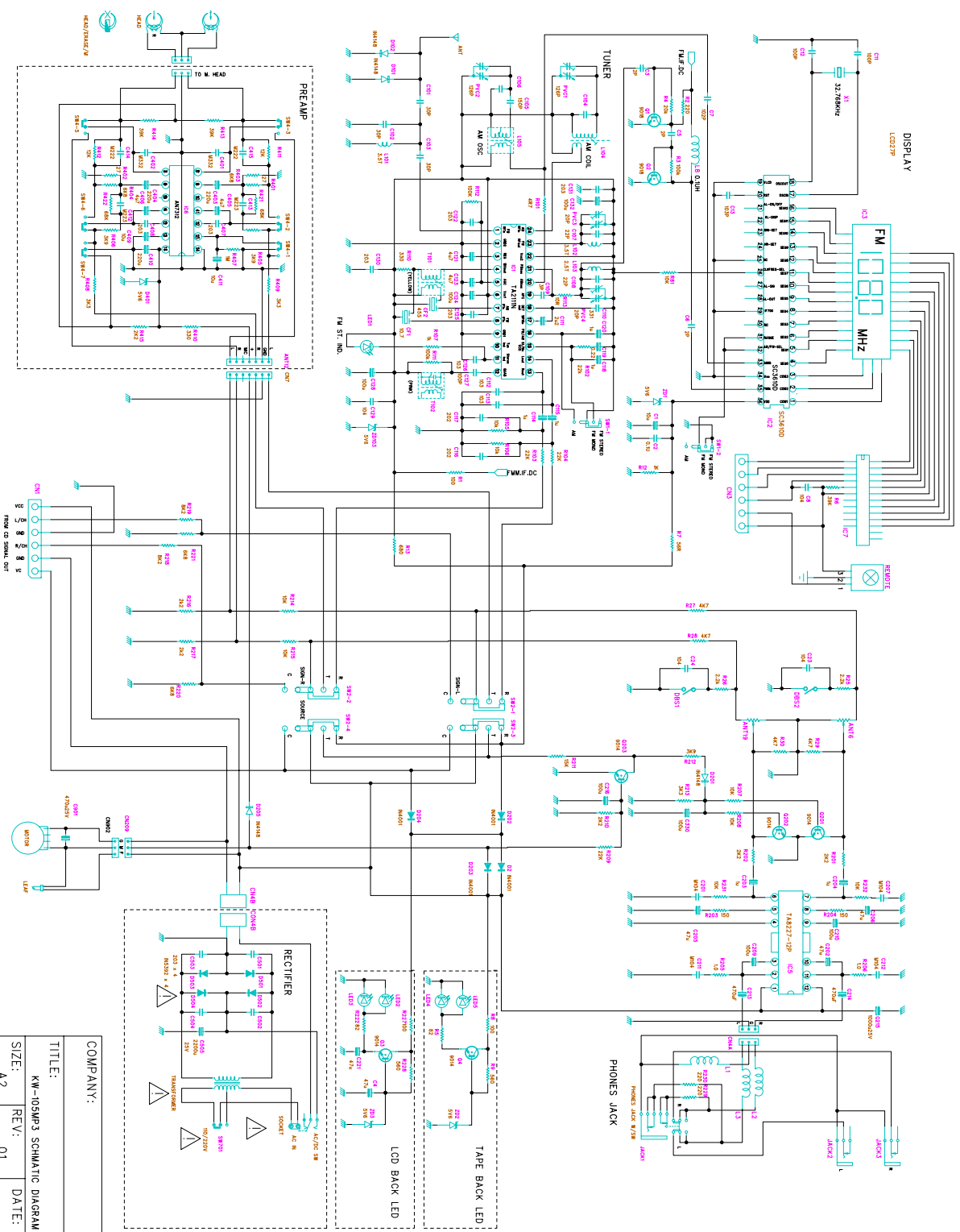
MW RADIO SPECIFICATION

Temp 28 °C Humidity 85 %
A.C 230V 50Hz D.C 12 V
LOADS 8 ohm Ref.out 50 mW

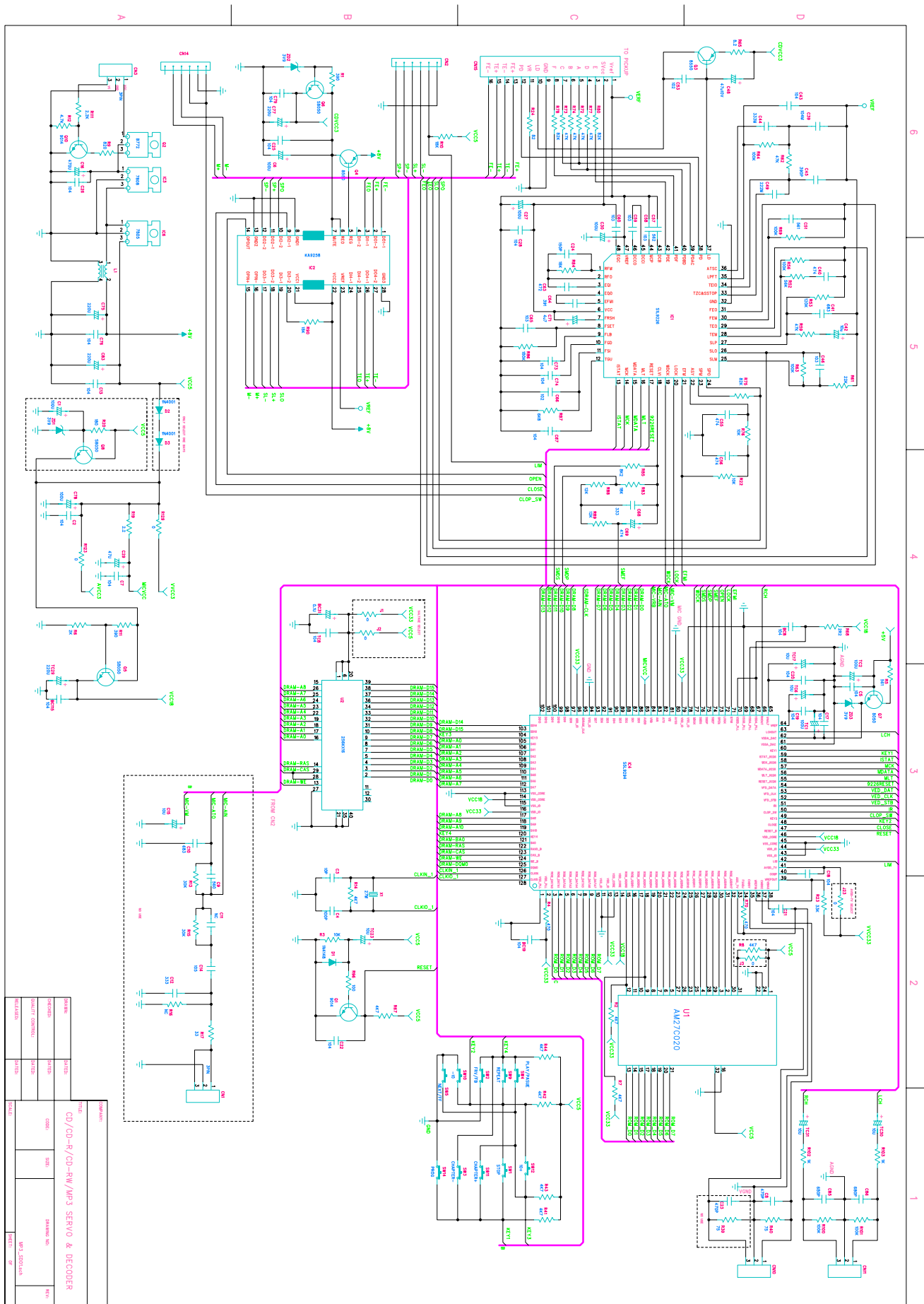
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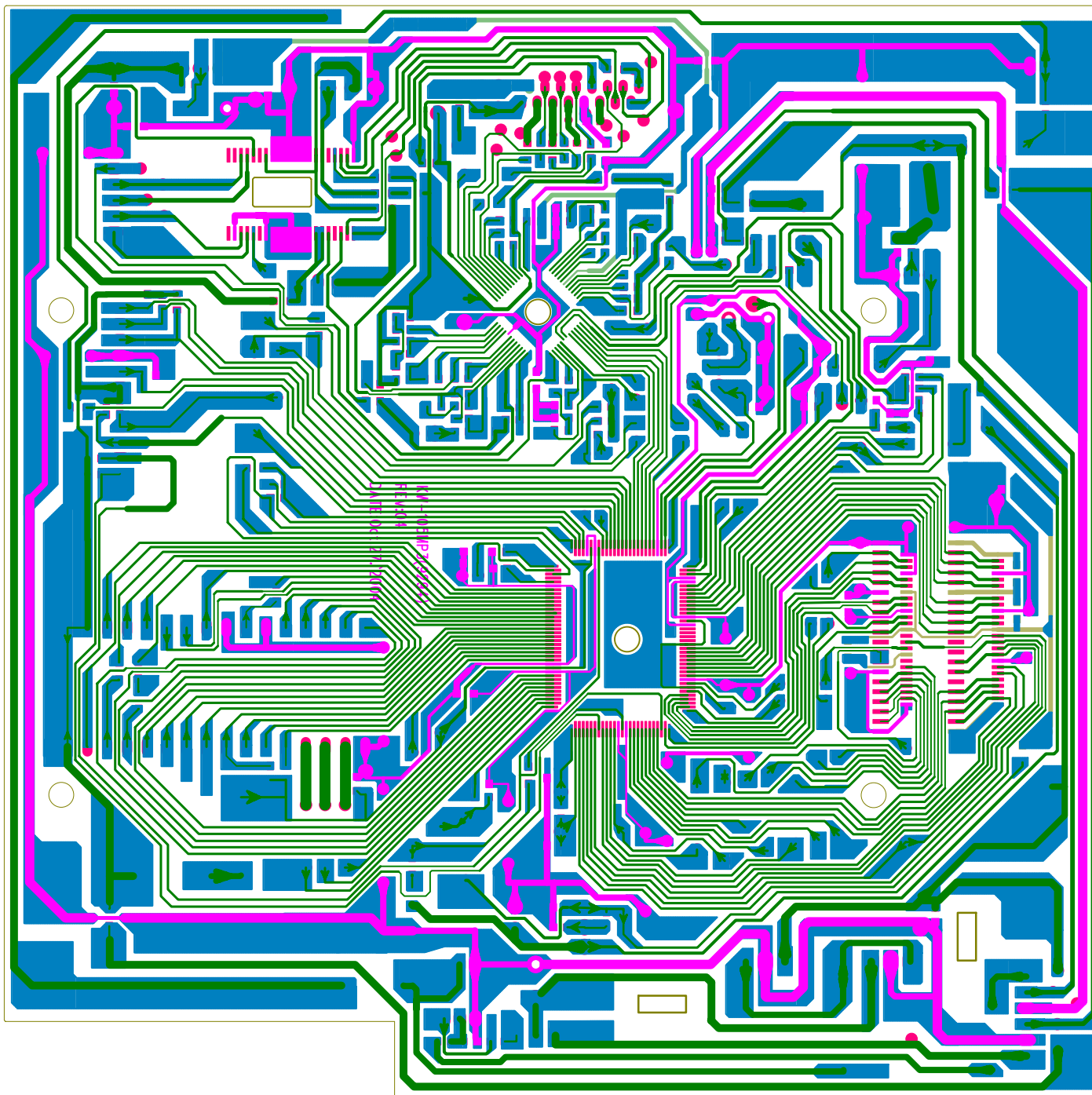
MODEL: RG-361

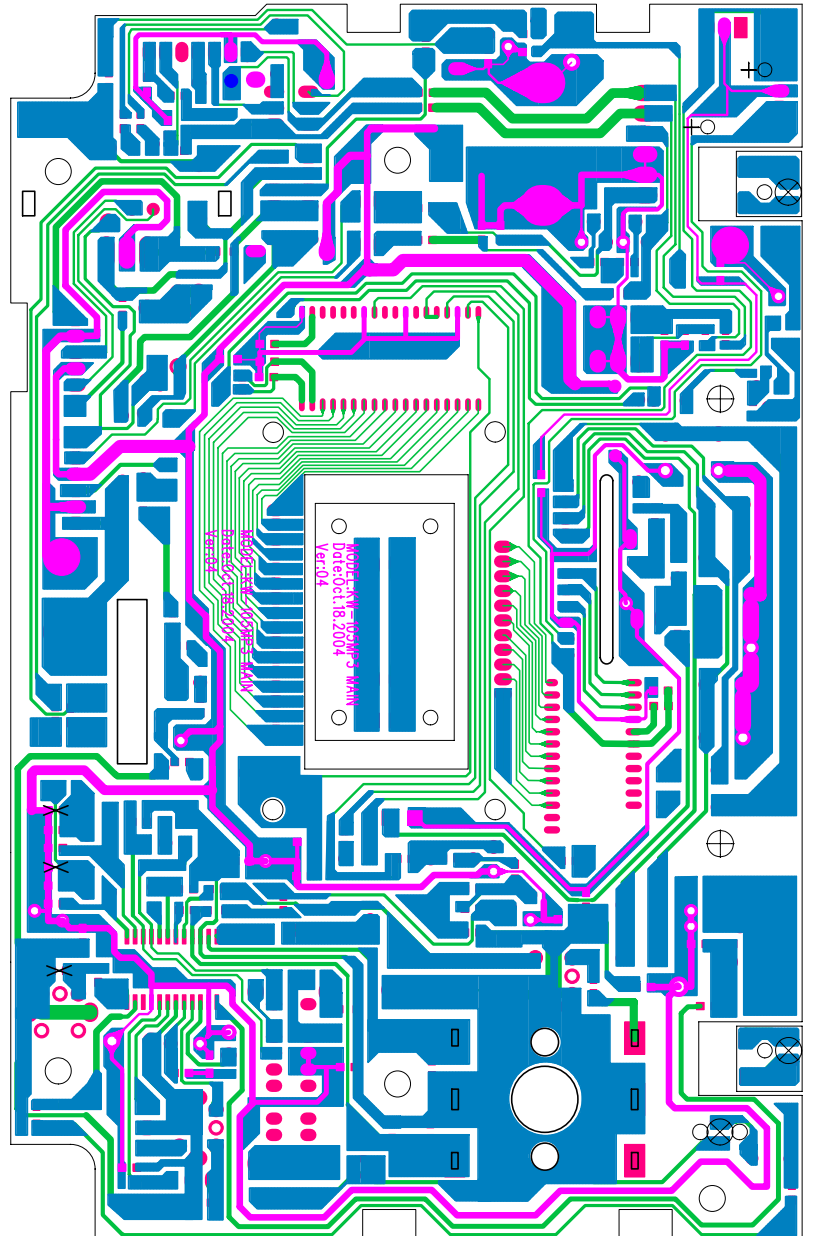
MEASURING ITEMS	CONDITION	UNIT	NORMAL	LIMIT	SAMPLE	TEST CONDITION
FREQUENCY RANGE	LOW END	KHZ	525	+/-5	515	
	HIGH END	KHZ	1630	+/-15	1630	
INTERMEDIATE FREQ		KHZ	465	+/-3		
MAX.SENSITIVITY	600KHZ	dB	50	58	52	
	1000KHZ	dB	50	58	58	
	1400KHZ	dB	50	58	58	
-20dB QUIETING SENSITIVITY	600KHZ	dB	58	64	62	
	1000KHZ	dB	58	64	61	
	1400KHZ	dB	58	64	61	
DIAL CALIBRATION	ALL POINTS	KHZ		<30		POINTER WITHIN LETTERING
IMAGE REJECTION	600KHZ	dB	50	40		
	1000KHZ	dB	45	35		
	1400KHZ	dB	45	35		
I.F. REJECTION	600KHZ	dB	45	40		
-6dB BAND WIDTH	1000KHZ	KHZ		4-8		
ACA +/- 10KHZ	1000KHZ	dB	20	15		
AGC FIGURE OF MERIT	1000KHZ	dB	35	28		100dB/M
RF OVERLOAD DIST.	1000KHZ	%	3	5		100dB/M 60% MOD
10% DIST. O/P POWER	1000KHZ	MW	2000	1800	1800	___*___1KHZ ; ___*___400HZ 80% MOD.
MAX. O/P POWER	1000KHZ	MW	2500	2300	2500	___*___1KHZ ; ___*___400HZ 80% MOD.
MAX. O/P. DIS	1000KHZ	%	20	25	22	___*___1KHZ ; ___*___400HZ 80% MOD.
-6dB AUDIO FIDELITY	LOW FREQ	HZ	100	150		VOL. AT 75% POSITION
	HIGH FREQ	HZ	3K	2K2		ADJUST MOD .TO REF
TWEET AT 1MV/M - 5MV/M	2 IF	%		<10		
	3 IF	%		<10		
S/N WITH 74dB/M	1000KHZ	dB	35	30	32	
DIST. AT Reb O/P	1000KHZ	%	3	5	5	
MODULATION HUM 100dB/M	1000KHZ	dB	40	35		
MIN. VOL. FEEDTHROUGH NOISE & HUM	MIN. VOL	MV	1	3	2	
AUTO TUNING SEEK SENS	600KHZ	dB	--	--		
	1000KHZ	dB	--	--		
	1400KHZ	dB	--	--		
AUTO SEEK ACCURACY		KHZ	--	--		



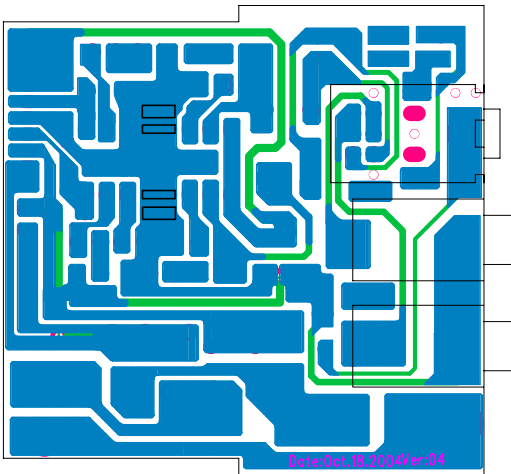
COMPANY:			
TITLE:			
KW-105MP3 SCHEMATIC DIAGRAM			
SIZE: A2	REV: 01	DATE:	2004/10/20
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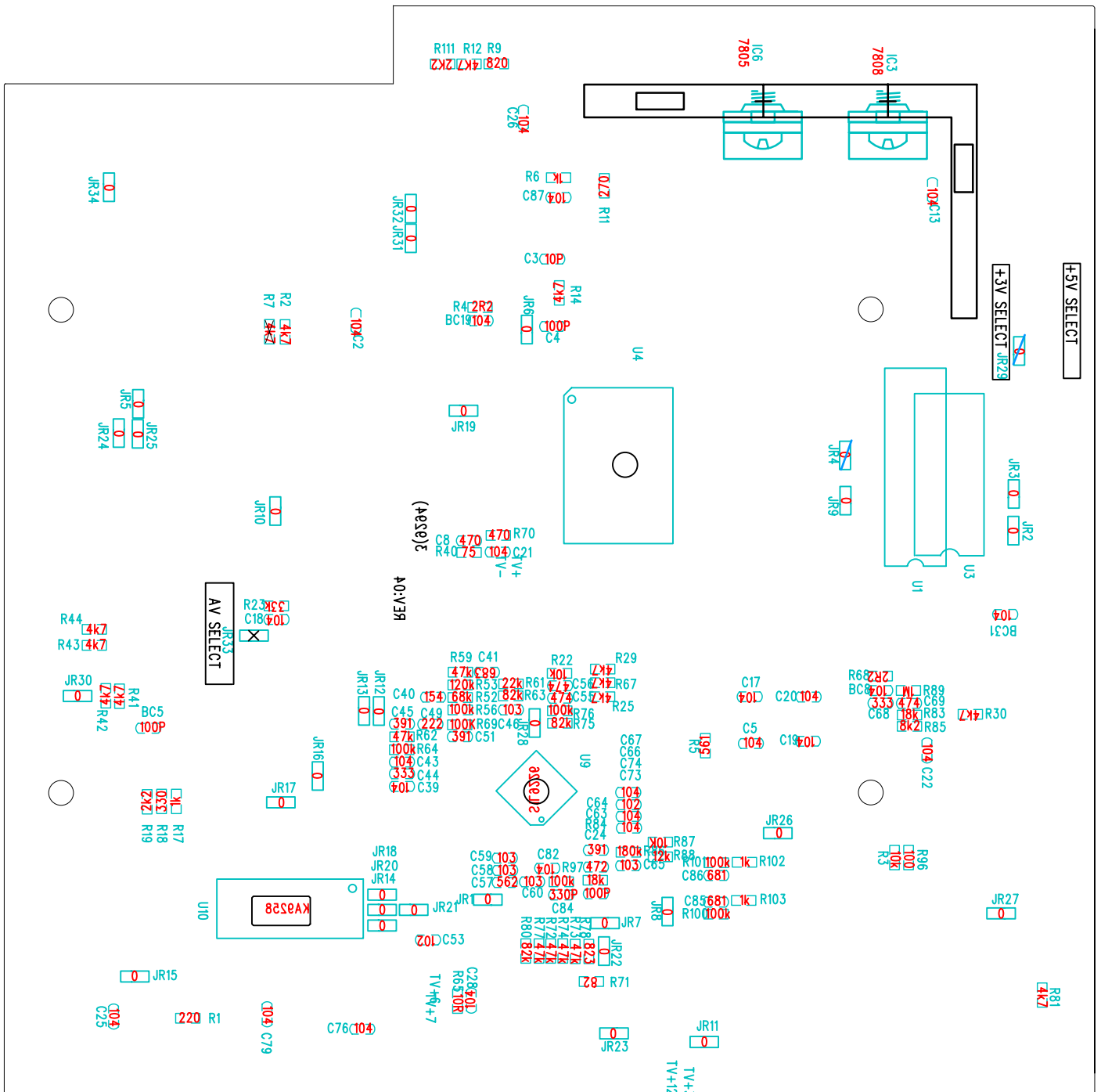


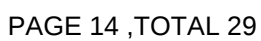




NOTE:
NO SELECT THE INNER LAYER 2.
MODEL:KW-105MP3 MAIN
Date:Oct.18.2004
Ver:04







RG-361

ALIGNMENT PROCEDURES

AM IF. ALIGNMENT

- 1, Set the FUNCTION switch to "RADIO" position.
- 2, Set the BAND switch to "AM" position.
- 3, Connect a SWEEPSCOPE OUTPUT to AM standard radiating loop antenna and match the direction for built-in ferrite bar of AM antenna.
- 4, Connect a SWEEPSCOPE INPUT to pin 13 or 14 of IC1 through a 1uf capacitor and GND.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	465KHz	LOW-END OF BAND	T3(IFT,YELLOW)	CENTER & MAXIMUM OUTPUT

AM RF. ALIGNMENT

- 1, Connect a RF GENERATOR to the standard radiating loop antenna.
- 2, Connect a SCOPE and VTVM across the speaker output

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	520KHz	LOW-END OF BAND	T5(AM OSC)	MAXIMUM OUTPUT
2	1650KHz	HIGH-END OF BAND	P.V.C C3	MAXIMUM OUTPUT
3	REPEAT	STEP 1 & 2	TO MAXIMUM	
4	610KHz	NEAR 610KHz	L104 (AM SENS COIL)	MAXIMUM OUTPUT
5	1400KHz	NEAR 1400KHz	P.V.C C4	MAXIMUM OUTPUT
	REPEAT	STEP 4 & 5	TO MAXIMUM	

FM IF. ALIGNMENT

- 1, Set the BAND switch to "FM" position.
- 2, Connect a SWEEPSCOPE OUTPUT to pin 23 of IC1 through a 20pf capacitor and GND.
- 3, Connect a SWEEPSCOPE INPUT to pin 13 or 14 of IC1 through a 1uf capacitor and GND.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	10.7MHz		CF1 (FM DISCRI.,PINK)	WITH 10.7MHz AT ZERO CROSSOVER & MAKE THE "S" CURVE TO FINER.
2	REPEAT	STEP 1 TO	FINEL	

FM RF. ALIGNMENT

- 1, Connect a RF GENERATOR to the terminal of FM telescope antenna and GND.
- 2, Connect a SCOPE and VTVM across the speaker output.

STEP	SET SIGNAL	SET DIAL	ADJUST	ADJUST FOR
1	87.5MHz	LOW-END OF BAND	L1(FM OSC)	MAXIMUM OUTPUT
2	108MHz	HIGH-END OF BAND	P.V.C C2	MAXIMUM OUTPUT
3	REPEAT	STEP 1 & 2	TO MAXIMUM	
4	90.1MHz	NEAR 90.1MHz	L2(FM SENS COIL)	MAXIMUM OUTPUT
5	106.1MHz	NEAR 106.1MHz	P.V.C C1	MAXIMUM OUTPUT
6	REPEAT	STEP 4 & 5	TO MAXIMUM	

CASSETTE PARTS ALIGNMENT

- 1, MOTOR TURNSPEED: Adjust the screw at motor back side to make the output signal near 3KHz while play the 3KHz standard tape. It used frequency meter connected output.
- 2, HEAD AZIMUTH: Adjust the screw of head azimuth to make the 6.3KHz signal to maximum. It play the 6.3KHz standard tape and used VTVM connected output.

PARTS LIST

DATE:2005-1-25
AM:522-1620KHz
FM:88-108MHZ

Model No:RG-361

REF NO:KW-EP-0171<REV:A0>

Item	Part NO	Description	Qty	PROPOSE
1		MAIN PCB		
2	271-K105MMP-10	PCB: KW-105AD+MP3 MAIN REV:1.0 94HB (W151mmx96.8mm) C:1.6mm	1	
3	100-TA2111F-20	IC: TA2111F	1	IC1
4	100-SC3610D-20	SC3610D	1	IC2
5	100-HT1621B-20	HT1621B	1	IC3
6	311-SS43D06-M0	SWITCH: FUNCTIONSS43D01 M10	1	SW2
7	311-SS43D06-M1	BAND SS43D01 M10	1	SW1
8	311-PS22E06-00	DBBS: PS-22E06	1	SW12
9	312-TS1150E-A0	TACT 5mm<TS-1150AB>	6	SW4 SW5 SW6 SW7 SW8 SW13
10	251-0007009-B0	IF: PINK: (7mmx12mm) 7T	1	T102
11	251-0100103-B1	RED: (7mmx12mm) 100: 10TA	1	L105
12	251-0157156-B0	YELLOW: (7mmx12mm) 157: 15T	1	T101
13	232-3276801-00	CYSTRAL: 32.768 KHz <2PINS>	1	X1
14	116-9014C01-00	TRANSISTOR: 9014 C	3	Q201 Q202 Q203
15	116-8050C01-00	8050 C	3	Q3 Q4 Q5
16	116-9018001-00	9018 H	2	Q1 Q2
17	111-IN41481-00	DIDOE: IN 4148	6	D101 D102 D201 D205 D10 D1
18	111-IN40011-00	IN 4001	4	D202 D203 D204 D2
19	112-5V61210-00	ZENER DIDOE: 5.6V	2	ZD2 ZD3
20	112-4V71210-00	4.7V	1	ZD4
21	112-3V01210-00	3V	1	ZD1
22	241-107033S-00	CER FILTER: 10.7MHz(3P)RED DOT	1	CF1
23	241-455003S-00	455KHz(3P)	1	CF2
24	292-750212C-00	FM COIL: Φ 0.75 4.5mm $2\frac{1}{2}T$	1	L103
25	292-750312D-00	Φ 0.75 5mm $3\frac{1}{2}T$	2	L101 L102
26	295-100UH2B-00	CHOKE COIL 100UH	1	L8
27		CAP(SMD0603):<25V>(+/5%)		
28	211-0003PDA-BS	3pf	2	C109 C3
29	211-0015PDA-BS	15pf	3	C5 C6 C108
30	211-0020PDA-BS	20pf	1	C107
31	211-0022PDA-BS	22pf	2	C11 C12

PARTS LIST

DATE:2005-1-25
AM:522-1620KHz
FM:88-108MHZ

Model No:RG-361

REF NO:KW-EP-0171<REV:A0>

Item	Part NO	Description	Qty	PROPOSE
32	211-0025PDA-BS	25pf	1	C127
33	211-0030PDA-BS	30pf	3	C101 C102 C103
34	211-0120PDA-BS	120pf	1	C7
35	211-0150PDA-BS	150pf	1	C105
36		CAP(SMD0603):<25V>(+/ -10%)		
37	211-0U001DB-BS	102pf(0.001uf)	1	C110
38	211-00U01DB-BS	103 (0.01uf)	2	C118 C13
39		CAP(SMD0603):<25V>(+80-20%)		
40	211-U0022DD-BS	222(0.0022uf)	2	C116 C117
41	211-0U015DD-BS	153(0.015uf)	2	C112 C113
42	211-000U1DD-BS	104(0.1uf)	11	C23 C24 C129 C125 C19 C2 C100 C20 C21 C8 C1
43	212-00U22FB-1S	ELECT CAP.:+/-1(0.22uf/50v	1	C119
44	212-0001UFB-1S	1uf/50v	5	C114 C115 C203 C204 C120
45	212-004U7FB-1S	4.7uf/50v	2	C121 C123
46	212-0010UDB-1S	10uf/25v	1	C111
47	212-0047UCB-1S	47uf/16v	4	C216 C330 C220 C221
48	212-0220UCB-1S	220uf/16v	2	C124 C128
49		RESISTOR1/8(SMD0603): +/-5%		
50	201-0000RDA-B1	0 OHM	13	JR1 JR4 JR7 JR6 JR5 JR3 JR8 JR11 JR10 JR9 JR2 R11 R14
51	201-0047RDA-B1	47 OHM	1	R101
52	201-0056RDA-B1	56 OHM	1	R7
53	201-0082RDA-B1	82 OHM	2	R5 R222
54	201-0100RDA-B1	100 OHM	3	R8 R227 R13
55	201-0220RDA-B1	220 OHM	2	R1 R2
56	201-0330RDA-B1	330 OHM	1	R110
57	201-0560RDA-B1	560 OHM	3	R9 R228 R15
58	201-0001KDA-B1	1K OHM	6	R23 R24 R12 R201 R202 R107
59	201-002K2DA-B1	2.2K OHM	3	R103 R104 R210
60	201-003K3DA-B1	3.3K OHM	3	R213 R25 R26
61	201-003K9DA-B1	3.9K OHM	1	R212
62	201-004K7DA-B1	4.7K OHM	2	R27 R28

PARTS LIST

DATE:2005-1-25
AM:522-1620KHz
FM:88-108MHZ

Model No:RG-361

REF NO:KW-EP-0171<REV:A0>

Item	Part NO	Description	Qty	PROPOSE
63	201-005K6DA-B1	5.6K OHM	1	R10
64	201-006K8DA-B1	6.8K OHM	1	R81
65	201-008K2DA-B1	8.2K OHM	2	R218 R219
66	201-0010KDA-B1	10K OHM	2	R207 R208
67	201-0015KDA-B1	15K OHM	1	R211
68	201-0022KDA-B1	22K OHM	2	R209 R102
69	201-0039KDA-B1	39K OHM	1	R6
70	201-0068KDA-B1	68K OHM	2	R214 R215
71	201-0100KDA-B1	100K OHM	3	R3 R4 R112
72	361-5002000-00	光线: Φ0.5x20mm	20	
73	481-0000230-00	EYELET: 2x3	6	
74		MP3 PCB		
75	100-S5L92940-20	IC: S5L9294X02	1	U4
76	100-9226X02-20	SAMSUNG 9226X02	1	U9
77	100-KA9258D-20	KA9258D	1	U10
78	100-PT28C02-10	PT28C020-90(9242 SOFTWARE)	1	U2
79	100-416C25B-20	SEC KM416C254BJ-5	1	U1
80	271-K105MP3-10	PCB: KW-105MP3(9242)REV.:1.0 <94HB> (L140mmxW140mm xH1.6mm)	1	
81	232-27M0001-00	CYSTRAL: 27MHz	1	XT2
82	116-B772001-00	TRANSISTOR: B772	1	Q2
83	116-8050C01-00	8050 C	3	Q5 Q6 Q7
84	116-8550C01-00	8550 C	1	Q4
85	116-9014C01-00	9014 C	2	Q1 Q10
86	116-9015C01-00	9015 C	1	Q3
87	111-IN41481-00	DIDOE: IN 4148	2	D7 L1
88	111-IN40011-00	IN 4001	1	D2
89	112-3V91210-00	3.9V ZENER DIDOE	2	ZD2 ZD1
90	295-100UH2B-00	CHOKE COIL: 100UH	1	L2
91	331-0220181-00	HSG(2.0mm) 2PIN (Y-INTE)	1	CN12
92	331-0420181-00	4PIN (Y-INTE)	1	CN4
93	331-0620181-00	6PIN (Y-INTE)	2	CN3 CN5
94	332-1610181-00	HSG(1.0mm) 16PIN (Y-INTE)	1	CN1

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REF NO:KW-EP-0171<REV:A0>

Item	Part NO	Description	Qty	PROPOSE
95		CAP. (SMD0603):<25V>(+/-5%)		
96	211-0010PDA-BS	10pf	1	C3
97	211-0100PDA-BS	100PF	3	C4 C24 BC5
98	211-0390PDA-BS	390pf	3	C51 C45 C64
99	211-0330PDA-BS	330pf	1	C84
100	211-0680PDA-BS	680pf	2	C85 C86
101		CAP. (SMD0603):<25V>(+/-10%)		
102	211-0U001DB-BS	102pf(0.001uf)	2	C66 C53
103	211-00U01DB-BS	103 (0.01uf)	5	C58 C59 C65 C46 C60
104		CAP. (SMD0603):<25V>(+80-20%)		
105	211-U0022DD-BS	222(0.0022uf)	1	C49
106	211-U0047DD-BS	472(0.0047uf)	1	C63
107	211-U0056DD-BS	562(0.0056uf)	1	C57
108	211-0U033DD-BS	333(0.033uf)	2	C68 C44
109	211-0U068DD-BS	683(0.068uf)	1	C41
110	211-00U15DD-BS	154(0.15uf)	1	C40
111	211-00U47DD-BS	474(0.47uf)	3	C55 C56 C69
112	211-000U1DD-BS	104(0.1uf)	22	C13 BC31 C22 BC8 C26 C87 BC19 C2 C67 C73 C74 C28 C82 C76 C79 C43 C25 C20 C17 C19 C39 C5
113		ELECT CAP.:+/-10%		
114	212-0001UFB-1S	1uf/50v	2	TC30 TC31
115	212-004U7FB-1S	4.7uf/50v	1	C71
116	212-0010UDB-1S	10uf/25v	4	C42 TC6 TC17 TC23
117	212-0100UCC-1S	ELECT CAP. :+/-2 100uf/16v	12	C78 TC29 C6 C77 C61 C48 C27 C30 C83 TC8 TC1 TC2
118	212-0220UCC-1S	220uf/16v	1	C1
119	212-1000UCC-1S	1000uf/10v	1	C75
120		RESISTOR(SMD0603): +/-5%		
121	201-0000RDA-B1	0 OHM	32	JR34 JR5 JR24 JR25 JR30 JR32 JR2 JR3 JR9 JR27 JR11 JR21 JR23 JR22 JR7 JR8 JR26 JR1 JR28 JR12 JR13 JR19 JR6 JR31 JR10 JR16 JR17 JR14 JR20 JR18 JR15 JR29
122	201-0010RDA-B1	10 OHM	1	R65

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Item	Part NO	Description	Qty	PROPOSE
123	201-002R2DA-B1	2.2 OHM	2	R4 R68
124	201-0082RDA-B1	82 OHM	1	R71
125	201-0100RDA-B1	100 OHM	1	R96
126	201-0220RDA-B1	220 OHM	2	R1 R5
127	201-0270RDA-B1	270 OHM	1	R11
128	201-0330RDA-B1	330 OHM	1	R18
129	201-0560RDA-B1	560 OHM	1	R6
130	201-0820RDA-B1	820 OHM	1	R9
131	201-0001KDA-B1	1K OHM	3	R102 R103 R17
132	201-002K2DA-B1	2.2K OHM	2	R111 R19
133	201-004K7DA-B1	4.7K OHM	11	R14 R2 R7 R25 R67 R41 R42 R43 R44 R81 R12
134	201-0010KDA-B1	10K OHM	3	R3 R87 R22
135	201-008K2DA-B1	8.2 K OHM	1	R85
136	201-0018KDA-B1	18K OHM	1	R83
137	201-0012KDA-B1	12K OHM	2	R88 R84
138	201-0022KDA-B1	22K OHM	1	R61
139	201-0047KDA-B1	47K OHM	6	R59 R62 R72 R73 R74 R77
140	201-0068KDA-B1	68K OHM	1	R52
141	201-0082KDA-B1	82K OHM	4	R75 R63 R78 R80
142	201-0100KDA-B1	100K OHM	7	R56 R69 R64 R97 R100 R101 R76
143	201-0120KDA-B1	120K OHM	1	R53
144	201-0180KDA-B1	180K OHM	1	R86
145	201-0001MDA-B1	1M OHM	1	R89
146	361-5003000-00	光线: Φ0.5x30mm	60	
		AMP PCB		
1	271-K105CPO-11	PCB: KW-105AD POWER 94HB (W58mmxD58mm) H:1.6mm	1	
2	100-UTC8227-10	IC: UTC8227	1	IC5
3	111-IN53921-00	DIDOE: IN5392	4	D501 D502 D503 D504
4	322-3507SW2-A0	PHONE JACK: 3507-202	1	JACK2
5	322-3503001-A0	3.5mm JACK EJ-3503	2	JK3 JK4
6		CAP. : 50V (+80/-20%)		

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Item	Part NO	Description	Qty	PROPOSE
7	211-0U001FD-1S	102(0.001uf)	2	C1 C2
8	211-00U02FD-1S	203(0.02uf)	4	C501 C502 C503 C504
9	211-000U1FD-1S	104(0.1uf)	2	C211 C212
10	212-0047UCC-1S	ELECT CAP.:(+/-2 47UF/16V	3	C205 C206 C210
11	212-0100UCC-1S	100UF/16V	2	C202 C209
12	212-0470UBC-1S	470UF/10V	2	C213 C214
13	212-1000UDC-1S	1000UF/25V	1	C215
14	212-2200UDC-1S	2200UF/25V	1	C505
15	201-0001RDA-11	RESISTOR:1/8W 1 OHM	2	R205 R206
16	201-0220RDA-11	220 OHM	4	R203 R204 R501 R502
17	201-0010KDA-11	10K OHM	2	R55 R56
18	294-46UH02B-00	CHOKE COIL: 46UH	3	L1 L2 L3
19	294-8UH002B-00	CHOKE COIL: 8UH	3	SPEAKER TO PCBx3
20	451-KT20600-00	FUSE HOLDER:	2	
21	261-F250012-01	FUSE: T 2.5A/250V	1	
22	526-0181000-00	OIL PLATE: Φ 1.8x10mm	8	
23	271-K105CPO-11	PCB: KW-105CD AMP PCB	1	
24	331-0620181-00	(2.0mmHSG) 6PIN (Y-INTE.)	1	
25	491-KW89C4B-00	HEATSINK KW-89 8227 PLATE	1	
26	481-0000230-00	EYELET: 2x3	2	
27	245-K105MTA-70	LCD DISPLAY:: KW-105AD/MP3 7X8 ANL:+70/20℃	1	
28	113-033004A-00	LED: Φ 3mm GREEN L=30MM	1	LED1
29	113-053003B-00	Φ 5mm FLAT BLUE L=30MM	2	LED2 LED3
30	105-2031T15-00	REMOTE RECEIVER (5V)	1	
31	314-KW98C25-00	ELECTRONICS POTENTMET R1615G12 A1 L=25MM	1	VR1
32	291-120020A-04	AM COIL: 120: 20T (3+1) L=125mm	1	
33	452-0010301-00	MANGET BRACKET: Φ 10x30mm	2	
34	371-1006001-00	MAGNET: Φ 10x60mm	1	
35	502-2515100-00	FERRITE COIL: 25x15x10mm	2	TRANSFORMER 3.5Tx1 AMP PCB5Tx1
36	502-1810060-00	FERRITE COIL:18x10x6mm	2	TRANSFORMER 3.5Tx1 AMP PCB 3Tx1

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Item	Part NO	Description	Qty	PROPOSE
37	502-1810120-00	FERRITE COIL :18x10x12mm	2	CD PCB 3Tx2
38	502-1508280-00	FERRITE COIL :15x8x28mm	1	RECORD PCB X1t
39	502-1307070-00	FERRITE COIL : Φ 13mmx7.5mmx7mm	1	FM WIRE
40	215-1262001-00	VARIABLE CAP. : 126PF/20PF	1	PVC1
41		2.0mm HSG UL		
42	341-K105MDU-A1	28# 4PIN 1HSG L=280mm	1	KEY PCBx1 COIL: 18x10x6mm ROUND 3T
43	341-K105MFU-A0	28# 6PIN 1HSG L=200mm	1	DISPLAY X 1
44	341-K105MGU-A1	28# 7PIN 1HSG L=250mm	1	REC PCBx1 W/ MAGNET 15x8x28mm ROUNF 1T
45	341-K105MFU-A3	26# 6PIN1HSG L=550mm	1	AMP PCBx1 COIL: 25x15x10mm ROUND 5T
46	341-K105MFU-A4	26# 6PIN 1HSG SHIELD CABLE 26#WIRE L=500mm.L=600mm)26#WIRE L=500mm	1	CD PCBx1 , SHIELD CABLE R:18x10x12mm R:3T 6XWIRE R:18x10x12mm R:3T
47	819-K105C01-10	PLASTIC: KW-105 BULD HOLDER	1	
48	915-K105C00-10	RECEIVER BRACKET	1	
49	842-K105C05-20	LED BRACKET	1	
50	471-0260681-00	SCREW: MS/KH 2.6x4(Φ4.1mm)	2	PVCx2
51	527-6402700-00	FILTER PAPER: 46mmx27mmx0.18mm	1	
52	524-K105M03-10	SHIELD PAPER: (0.3mm)45mmx80mm	1	
53	111-IN41481-00	DIDOE: IN 4148	1	RADIO POWER SUPPLYx1
54		CAP.:<50V>(+80/-20%)DIP		
55	211-00U01FD-1S	103(0.01uf)	1	MAIN PCB (EMC)x1
56		WIRE: UL 28#		
57	343-0030E2U-00	BLACK 30MM	2	LEDx1 SHIELD PAPERx1
58	343-0030E3U-00	RED 30MM	1	LEDx1
59	343-0070EGU-00	GREEN 70MM	1	MAIN PCB WIREx1
60	388-KW89M08-00	REMOTE CONTROL	1	
61		RECORD PCB		
62	100-AN73120-10	IC: AN7312	1	IC6
63	271-K105CPR-11	PCB: KW-105AD PREAMP <94HB> (W77mmxD43mm xH1.6mm)	1	
64	311-PS6P2T0-00	RECORD SWITCH PS6P2T	1	SW10
65	112-6V81210-00	ZENER DIDOE: 6.8V	1	D11
66		RESISTOR 1/4: +/-5% (DIP)		

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Item	Part NO	Description	Qty	PROPOSE
67	201-0015RCA-11	15 OHM	2	R30 R31
68	201-0330RCA-11	330 OHM	1	R10
69	201-0001KCA-11	1K OHM	1	R36
70	201-006K8CA-11	6.8K OHM	4	R15 R16 R21 R22
71	201-0012KCA-11	12K OHM	2	R18 R19
72	201-0022KCA-11	22K OHM	2	R17 R20
73	201-0039KCA-11	39K OHM	2	R39 R41
74	201-0001MCA-11	1M OHM	1	R29
75		RESISTOR 1/8: +/-5% (DIP)		
76	201-0001KCA-11	1K OHM	2	R216 R217
77		CAP.:<50V>(+80/-20%)DIP		
78	211-U0022FD-1S	222(0.0022uf)	2	C36 C44
79	211-00U02FD-1S	203(0.02uf)	2	C16 C41
80	211-0U033FD-1S	333(0.033uf)	2	C17 C39
81	213-U0033HB-1S	CAP:100V 332(0.0033uf)	2	C28 C29
82	212-003U3FB-1S	ELECT CAP.:+/-1(3.3uf/50v	2	C15 C37
83	212-0010UDB-1S	10uf/25v	2	C18 C43
84	212-0100UCC-1S	ELECT CAP.:+/-2(100uf/16v	2	C10 C40
85	212-0220UCC-1S	220uf/16v	1	C35
86	331-0720181-00	HSG(2.0mm) 7PIN(Y-INTE)	1	
87	361-5005000-00	WIRE: Φ0.5x50mm	5	
88	491-KW36M1A-00	HEATSINK KW-36MP3 7805/7808 AC HEARSINK	1	
89	471-0300661-00	SCREW: MS/PH 3x6	2	7808x1 7805x1
90	100-KA7808-10	KA 7808	1	IC3
91	100-KA7805-10	KA 7805	1	IC6
92		2.0mm HSG W/WIRE UL		
93	341-K105MFU-A1	30# 6PIN HSG L=100mm	1	CD DECK X 1
94	344-15003AU-00	STEREO HEAD WIRE:(UL) 2X 3PIN SHIELD CABLE L=150MMΦ1.8MM	1	STEREO HEAD X 1
95		CABLE: (UL) (1.0mm)		
96	345-08016AU-00	16PIN CD DECK CABLE L=80MM	1	CD DECK X 1
97	348-18002A1-00	 φ 3.5MM HSG WIRE (SPEAKER BOX) L=1.8M	2	SPx2
98		2.0mm HSG UL		

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Item	Part NO	Description	Qty	PROPOSE
99	341-K105MBU-A0	28# 2PIN HSG L=80mm	1	CD DOOR SWITCH
100	343-0070E3U-00	WIRE: UL 28# RED 70MM	1	CASSETTE LED X 1
101	343-0070E2U-00	BLACK 70MM	1	CASSETTE LED X 1
102	343-0150E3U-00	RED 150MM	1	CASSETTE LED X 1
103	343-0150E2U-00	BLACK 150MM	1	CASSETTE LED X 1
104		WIRE: UL 26#		
105	343-0050D3U-00	RED 50MM	2	SP“L”x2
106	343-0050D2U-00	BLACK 50MM	2	SP“L”x2
107	343-0120D2U-00	BLACK 120MM	1	WIRE X 1
108	343-0120D8U-00	ORANGE 120MM	1	MOTOR – CD DECK SWITCH X 1
109	343-0170D2U-00	BLACK 170MM	1	MOTOR “-” TO PCB GNDx1
110	343-0170DGU-00	GREEN 170MM	1	MOTOR “+” TO PCB VCCx1
111	343-0250D3U-00	RED 250MM	1	CD DECK SWITCH TO PCB VCC1x1
112	343-0250D2U-00	BLACK 250MM	1	AMP PCB TO VOLx1
113	343-1800D2U-00	BLACK 1800MM	1	FM WIRE x1 COIL: R:3.5T
114	471-0200491-00	SCREW: PST2x4	1	FRONT PANEL BRACKET x1
115	471-0200621-00	TA/PH 2x6	1	MAGNET HOLDER x1
116	471-0200821-00	TA/PH2x8	1	CD DOOR SWITCH X 1
117	471-0260561-00	MS/PH 2.6x5	1	PVC GEAR X 1
118	471-0261011-00	TA/WH 2.6x10	4	CD DECK X 4
119	471-0180611-00	TA/WH 1.8x6	3	CD DOOR MAGNET HOLDER X 1
120	471-0300821-00	TA/PH 3x8	16	MAIN PCBx7 F.PANELx3 MP3 PCBx4 CASSETTE DOOR LOCK BRACKETx2
121	471-0301011-00	TA/WH 3x10	16	CD DOOR GEAR HOLDERx1 SPx4 AMP. PCBx2 SPEAKER BOX RUBBER FEETx8 CASSETTE DOOR GEAR HOLDERx1
122	471-0301021-00	TA/PH 3x10	4	CD DECKx4
123	471-0261041-00	TA/kH 2.6x10	2	CD BRACKETx2
124	471-0301221-00	TA/PH 3x12	8	SPEAKER BOX FRONTx8
125	471-0301621-00	TA/PH 3x16	4	BOTTOM CABINET X 8
126	471-0302511-00	TA/WH 3x25	2	TRANSFORMER X 8
127	352-004B201-00	AC SOCKET	1	4B-2
128	251-1830VAB-00	VDE APPROVAL CORD	1	
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Item	Part NO	Description	Qty	PROPOSE
130				
131	405-1901600-00			
132	422-K104C10-00	SPRING: CASSETTE DOOR KW-104	1	
133	423-K104C12-00	CD DOOR KW-104	1	
134	113-032503A-00	LED: Φ 3mm BLUE L=25MM	2	CASSETTE DOOR X 2
135	301-K105CAS-00	MOTOR 12V TO 3DOT CASSETTE DECK: POSITIVE(CASSETTE MOTOR TO BOTTOM)STEREO HEAD L=30MM	1	
136	302-CMSB35A-00	CD DECK: SAM SUNG B35V	1	
137	501-3016050-00	MAGNET: O30xI16xH5mm	1	
138	511-40RD000-00	CD RUBBET RED TY-717<40C>	2	
139	511-30GR000-00	GREEN TY-717<30C>	2	
140	242-0200100-00	BUZZER Φ 20MM	2	
141	324-00H1002-00	CAP FOR AC WIRE	2	
142	821-K105C00-P0	MIRROR PLATE	1	
143	520-K104C50-00	COLOR: WOODEN (HD-2095-GW) BOX: H225mmxW130mmxD150mm	2	
145	512-K107C00-00	UNIT RUBBET FEET: Φ 12.5mmx3mm	4	
146		RESISTOR 1/4: +/-5% DIP		
147	201-0010RCA-11	10 OHM	2	BUZZER X 2
148	474-00000151-00	Φ 15mm SILVER CAP.	2	
149	465-0212013-00	PCB WASHER: 3x12x1mm	6	CD DECK x4 AMP PCB x2
150	528-0308000-00	NYLOE: 3x80mm	9	FIXED WIREx3 FIXED FERRITE COILx6
151	530-0200200-00	HEAT DIDOE: Φ 2.0x20mm	6	TO: RESISTOR/ CAP.
152	521-K105C03-00	PVC(48mmx32mm)	1	PLACE TO RCA POLE
153	521-K107C03-01	PVC (19mmx12mm)	1	PLACE TO DUAL VOLTAGE POLE
154	311-LS19000-00	SWITCH: CD DOOR SWITCH(LS-19)	1	
155	441-PR04000-00	CD DOOR LOCK(PR-04)	2	CD DOOR x1 CASSETTE COVERx1

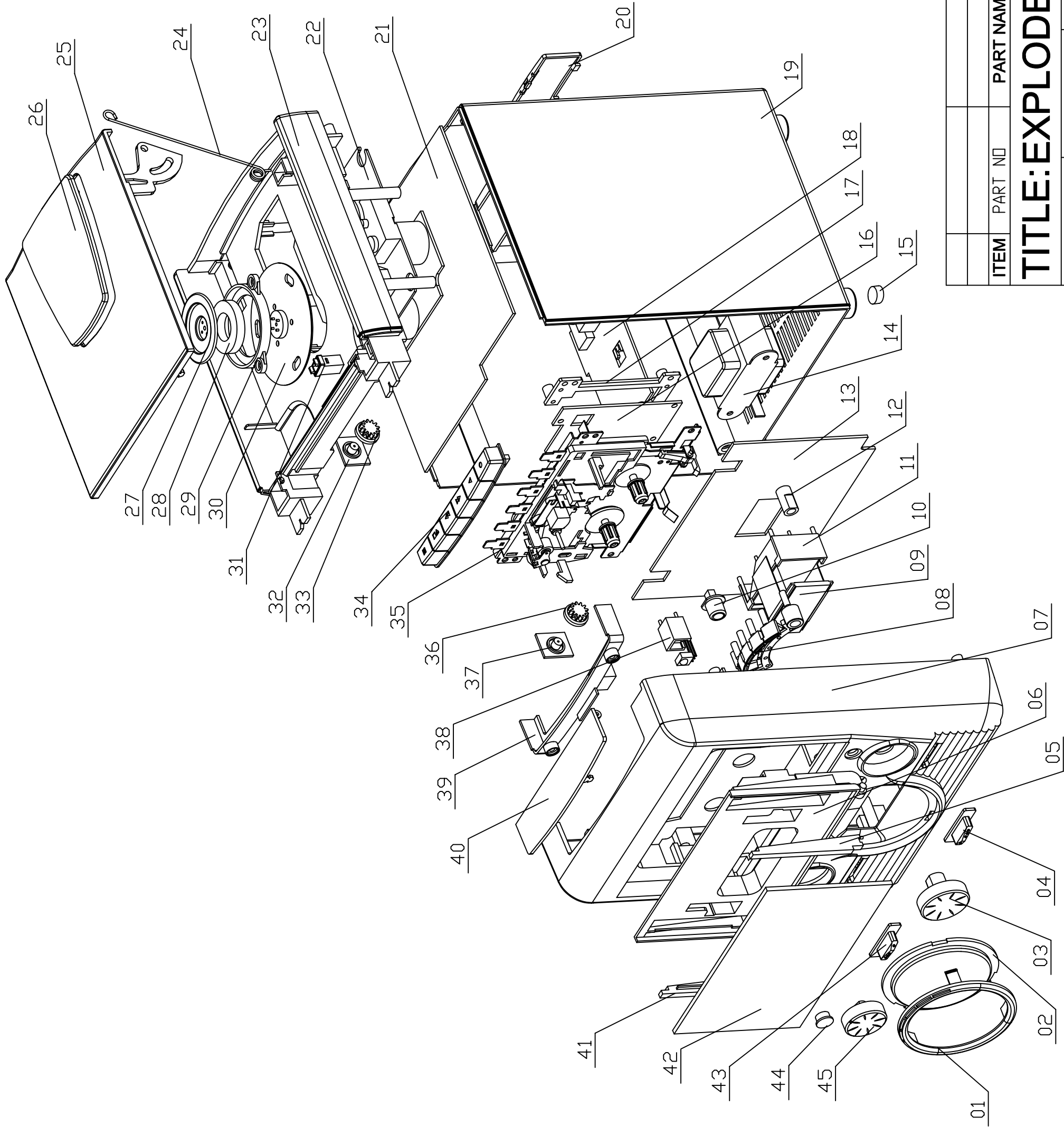
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Item	Part NO	Description	Qty	PROPOSE
Model No:RG-361 SPEAKER BOX				
1	520-K105C40-00	157SILVER BOX H225mmxW130mmxD150mm	2	
2	201-0010RCA-11	RESISTOR:1/4: +/- 10 OHM	2	BUZZER X 2
3	474-00000151-00	Φ 15mm SILVER CAP	2	
4	401-3508003-60	SPEAKER: 8 OHM 3W Φ45 3.5" (泡沫边)	2	
5	343-0050D3U-00	WIRE: UL 26# RED 50MM	2	SP“L”x2
6	343-0050D2U-00	BLACK 50MM	2	SP“L”x2
7	348-18002A1-00	 Φ 3.5MM HSG SPEAKER WIRE L=1.8M	2	
8	471-0301221-00	SCREW: TA/PH 3x12	8	SPEAKER FRONT X 8
9	471-0301011-00	TA/WH 3x10	12	SPx4 SPEAKER RUBBER FEETX8
10	405-190160N-00	SPEAKER CLOTH: LIGHT GREY 190mmx160mm	2	
11	242-0200100-00	BUZZER Φ 20MM	2	
12	530-0350180-00	HEATSINK TUBE Φ 3.5mmx18mm	2	
13	817-K105C05-20	KW-105 CLOTH BRACKET	2	
14	852-K105C05-20	KW-105 SPEKAER DECARATION PLAT	2	
15	850-K105C05-10	KW-105 SPEAKER COVER	2	
16	631-4403603-00	SPEAKER PLASTIC BAG:440x360mm	2	
17	853-K105C05-20	KW-105 SPEAKER CLIP	4	
18	848-K107C02-80	KW-107 RUBBER HEET	8	
19	877-KW89C02-20	KW-89 BUZZER	2	



46			
45	831-K105C05-2A	VOLUME KNOB	1
44	912-K105C09-40	REMOTE LENS	1
43	829-K105C05-20	FUNCTION KNOB	1
42	821-K105C09-40	CASSDOOR LENS	1
41	911-K105C09-7L	LIGHT PLATE(L)	1
40	807-K105C05-20	CASSKEY COVER	1
39	910-K105C05-20	CASSKEY COVER BRK	1
38	915-K105C05-20	REMOTE BRK	1
37	813-K105C05-20	CASSGEAR BRK	1
36	812-K105C05-20	CASS GEAR	1
35	301-K105cas-00	CASS DECK	1
34	806-K105C05-20	CASS KEY	1SET
33	812-K105C05-20	CD GEAR	1
32	813-K105C05-20	CD GEAR BRK	1
31	441-pr04000-00	CD DOOR LOCK	1
30	863-KW98C02-20	MAGNET TRAY	1
29	864-KW98C02-20	MAGNET BUCKLE	1
28	501-3016050-00	MAGNET	1
27	866-KW98C02-20	MAGNET COVER	1
26	855-K105C05-20	CD DOOR ADORNMENT	1
25	878-K105C05-20	CD DOOR	1
24	423-K104C12-00	CD SPRING	1
23	816-K105C05-20	CD BRACKET	1
22	302-CMSB35A-00	CD DECK	1
21	271-K105MP3-10	MAIN PCB	1
20	804-K107C05-10	BATTERY DOOR	1
19	801-K107C05-10	BACK CASE	1
18	271-K105CPD-11	SPEAKER PCB	1
17	843-K104C05-20	RECORD BRK	1
16	914-K108C05-20	RECORD PCB	1
15	301-KW89CAS-00	FOOT	4
14	247-KW89MCE-00	TRANSFORMER	1
13	271-K105MMP-10	KEY PCB	1
12	866-K105C05-20	TUNING SPINDLE	1
11	818-K105C05-20	DISPLAY BRK	1
10	876-K105C05-20	DBBS KNOB	1
09	245-K105MTA-70	LCD	1
08	826-K105C05-20	CD KNOB	1
07	800-K105C05-10	FRONT CASE	1
06	808-K105C05-10	CASSDOOR-BRK	1
05	911-K105C09-7R	LIGHT PLATE(R)	1
04	827-K105C05-20	BAND KNOB	1
03	833-K105C05-20	TUNING KNOB	1
02	822-K105C09-40	DISPLAY LENS	1
01	892-K104C05-20	LENS ADORNMENT	1

ITEM	PART NO	PART NAME	QTY
TITLE:EXPLODED			
PART NO.:			
FILE NAME:		MATERIAL:	
DRAWN:		DATE:	
CHECKED:		DATE:	
APPROVED:		DATE:	

X<60 60<X<150 150<X<350 350<X<1000 1000<X	±0.1 ±0.2 ±0.3 ±0.4 ±0.6	±0.5	±0.5

SCALE:			

A4			
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