

DATVOO

Service Manual

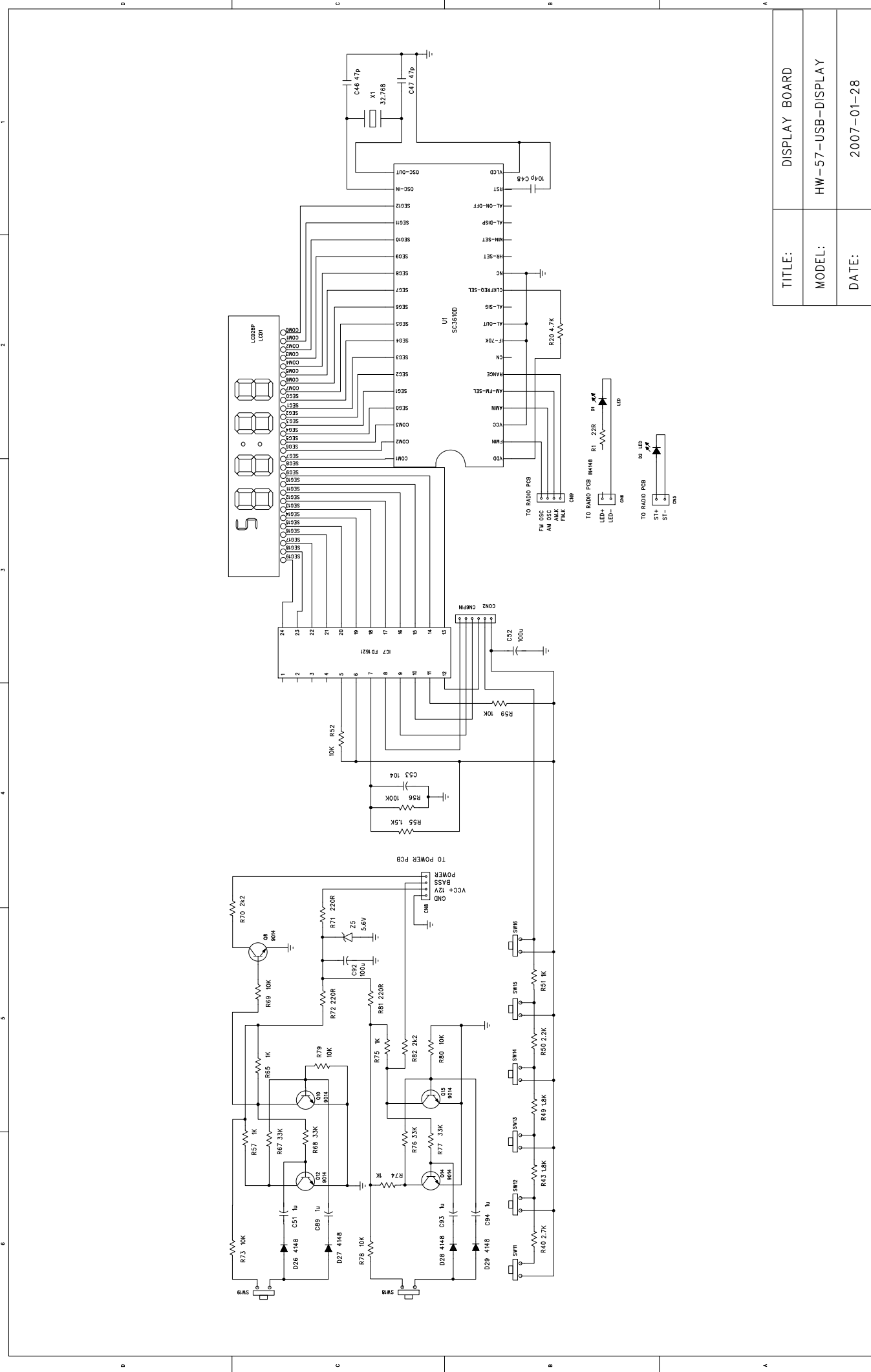
AM/FM STEREO RADIO
WITH CD/MP3/USB/SD PLAYER



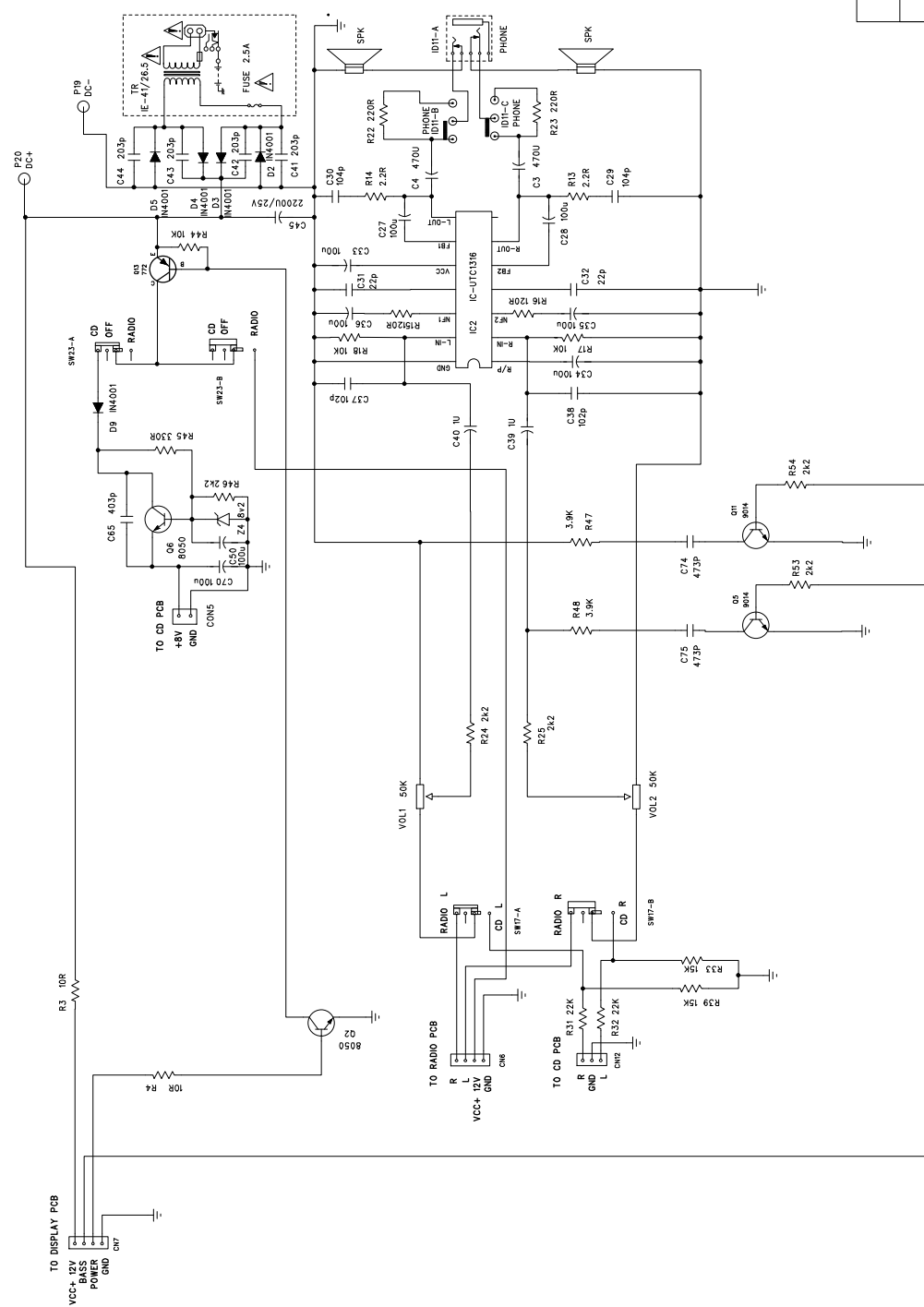
DAT H.K. LIMITED

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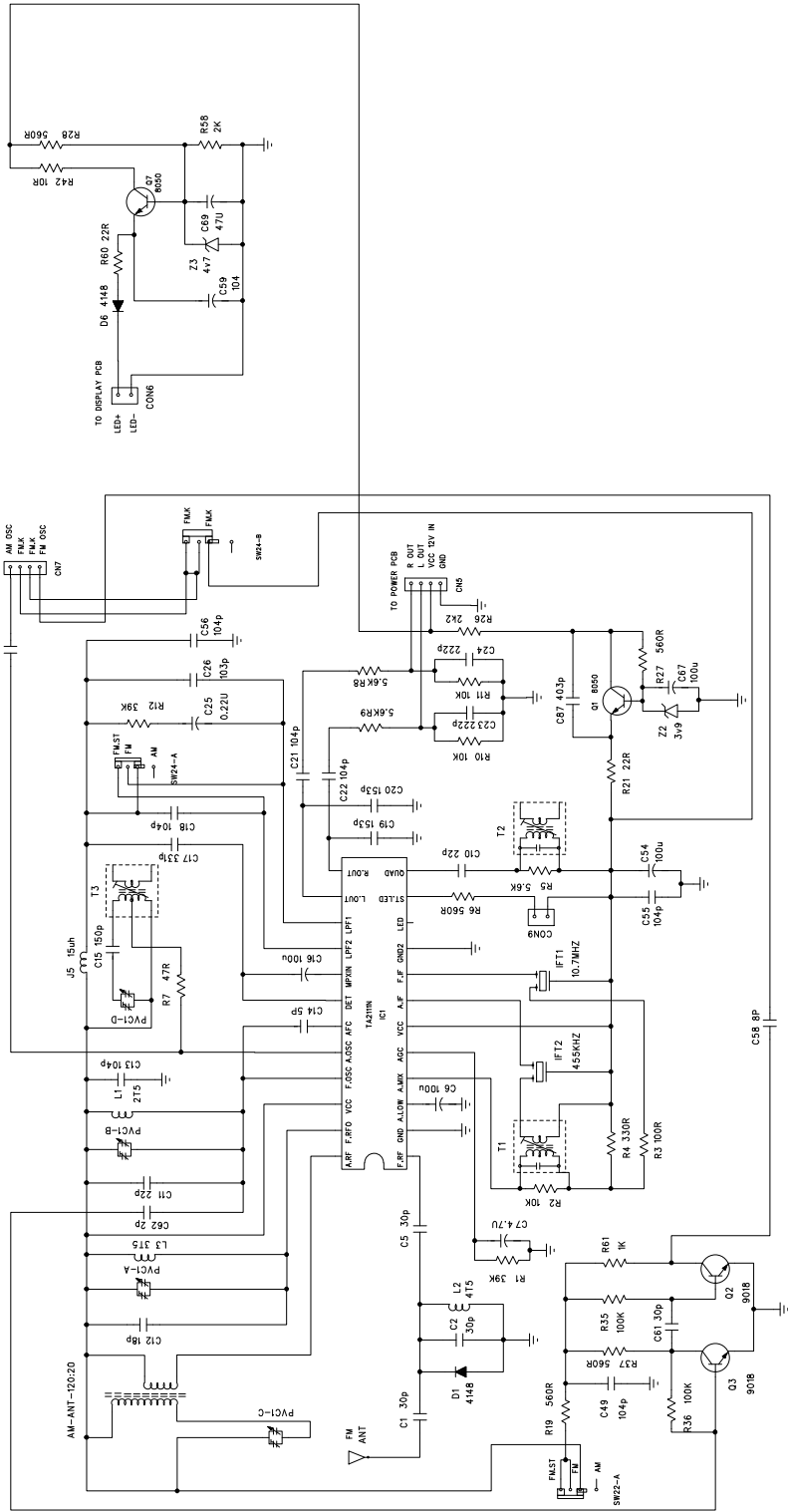


TITLE:	DISPLAY BOARD
MODEL:	HW-57-USB-DISPLAY
DATE:	2007-01-28

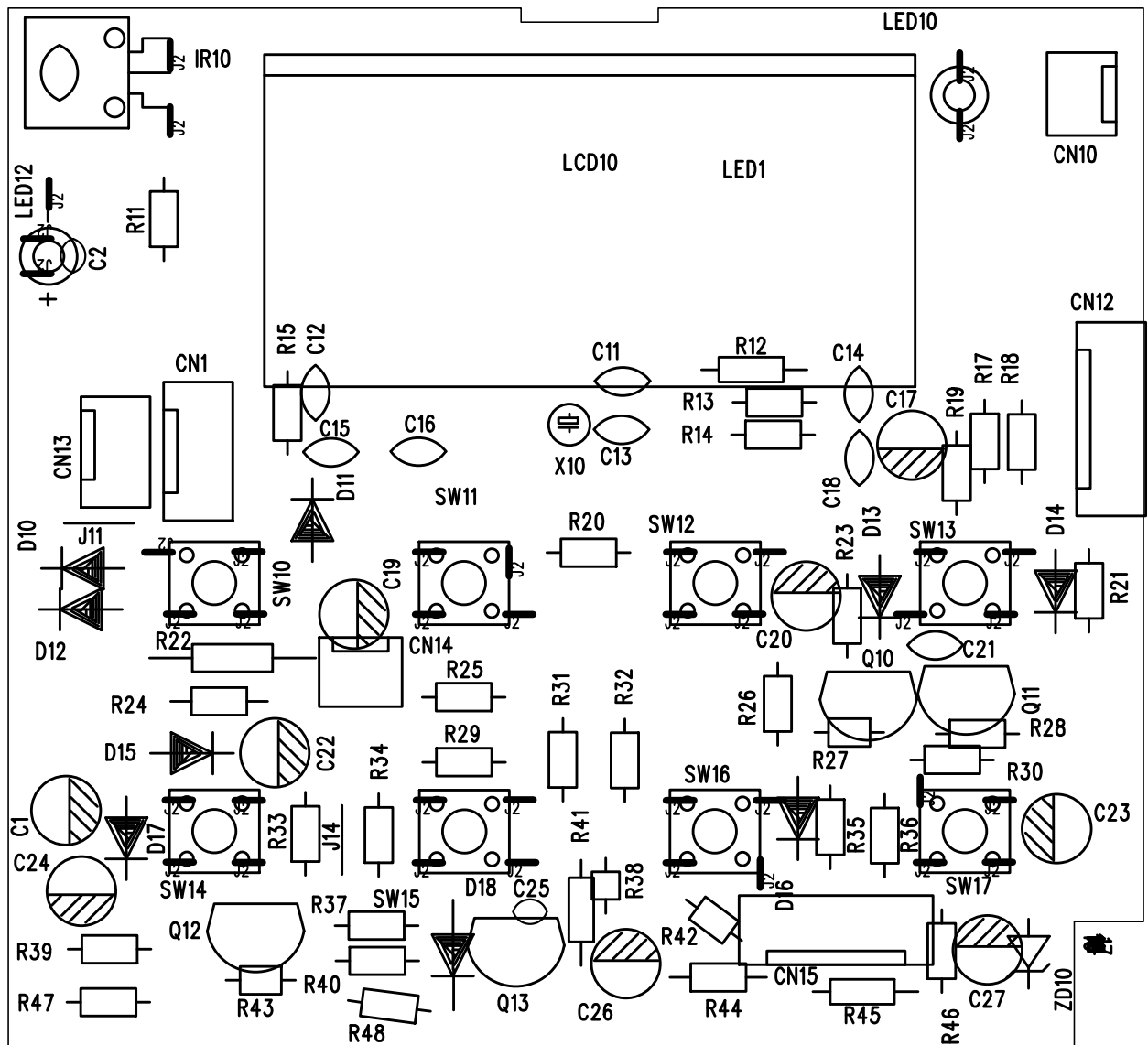


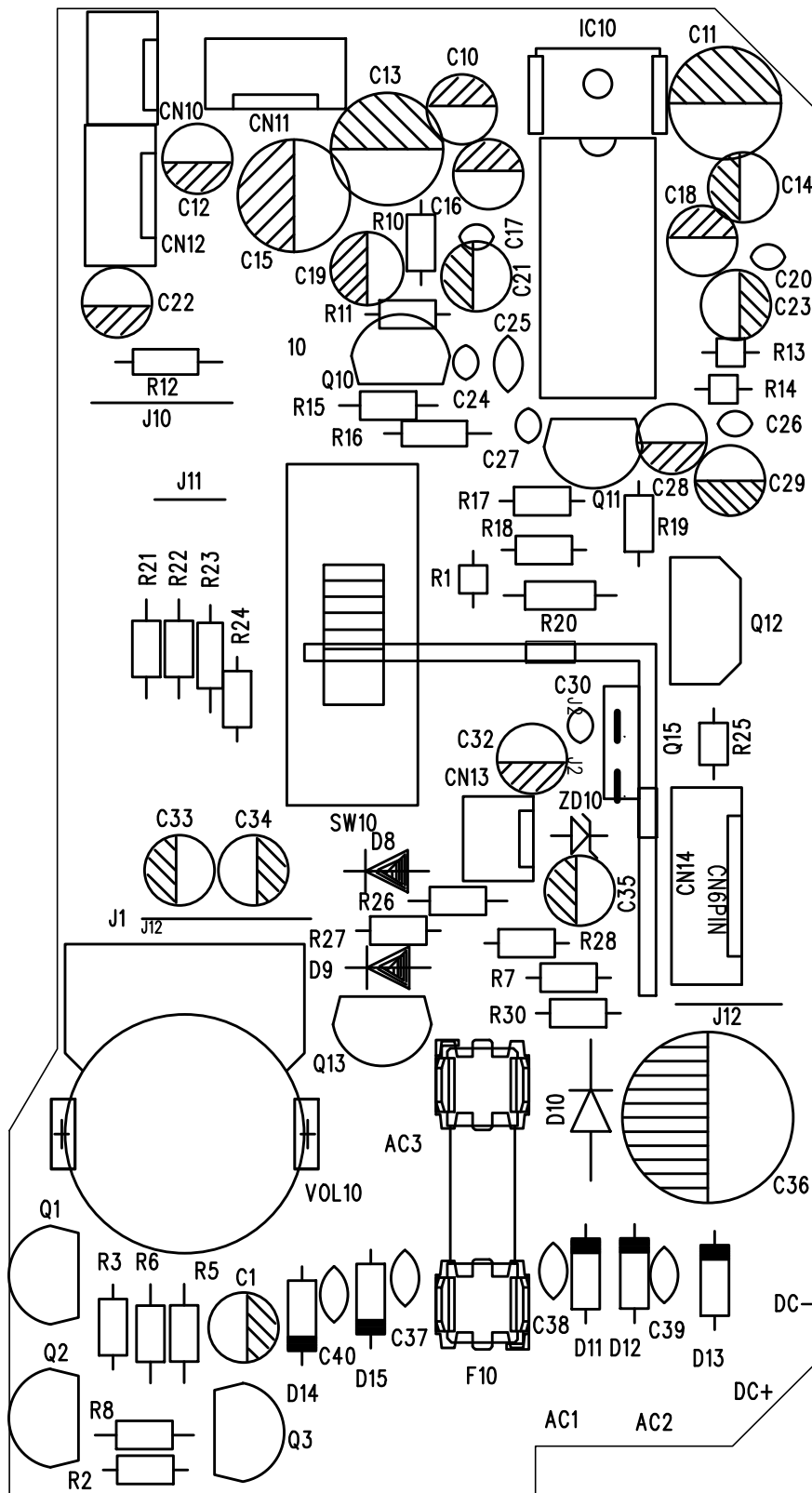
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MODEL:	HW-57-USB-POWER
DATE:	2007-01-28

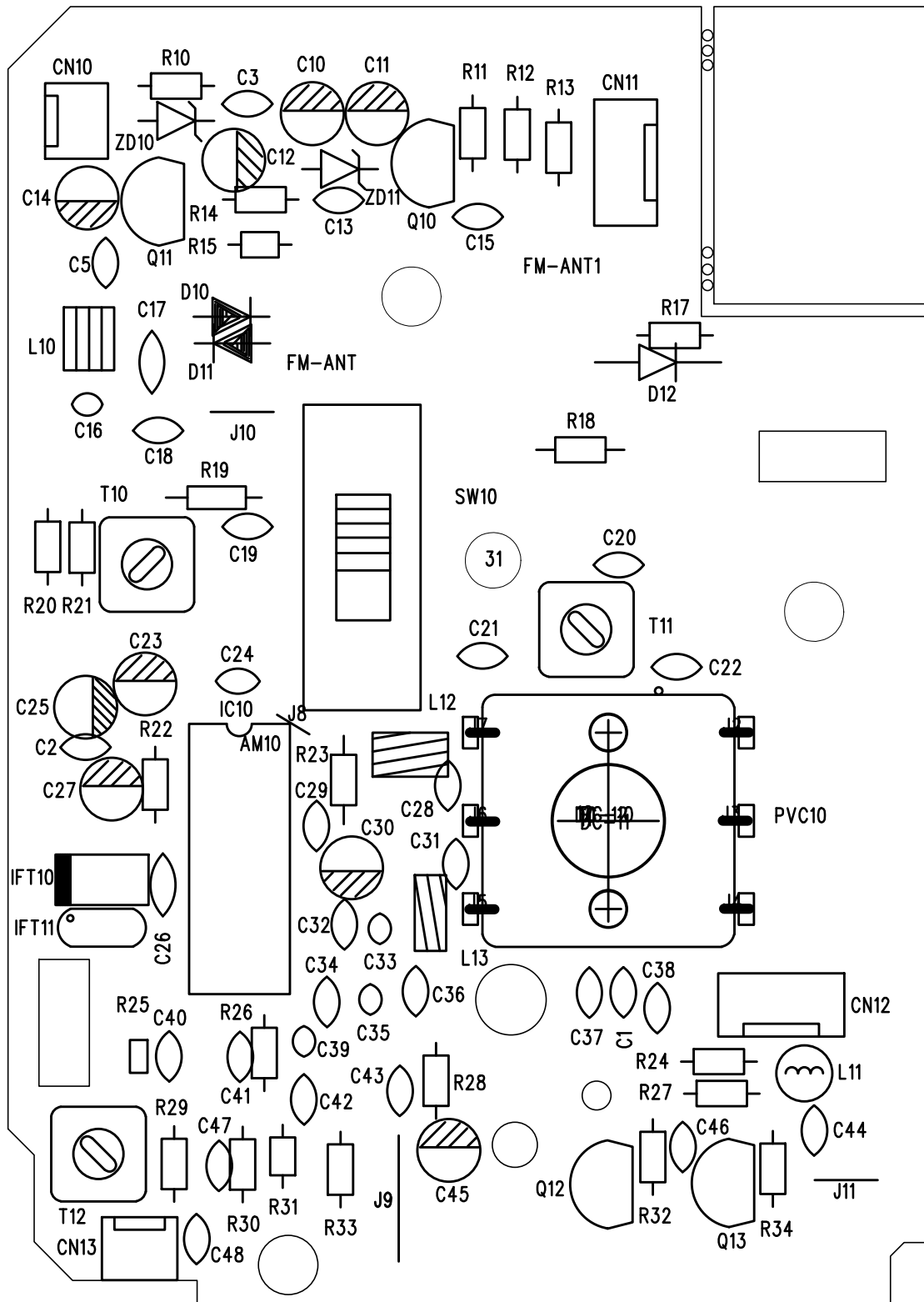
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TITLE:	RADIO BOARD
MODEL:	HW-57-USB-RADIO
DATE:	2007-01-28







AM SPECIFICATION

MODEL : BC-4904SAC BAND : AM DATE : 2007/06/06

SUPPLY VOLTAGE	LOAD	REF. O / P	MOD. DEPTH	MOD. FREQUENCY
AC <u>220</u> <u>V.</u> DC <u>12</u> <u>V.</u>	<u>8</u> <u>Ohm</u>	<u>50</u> <u>mW</u>	30%	1 KHz

DESCRIPTION	TEST CONDITION	TEST POINT	UNIT	NOR .	LIMIT	MEAS .
BAND COVERAGE	LOW END	LOW	KHz	520	+/-10	
BAND COVERAGE	HIGH END	HIGH	KHz	1630	+/-20	
INTERMEDIATE FREQUENCY	HIGH END	HIGH	KHz	455	+/-5	
MAXIMUM SENSITIVITY	600 KHz	LOW	dB	76	82	
MAXIMUM SENSITIVITY	1000 KHz	MED	dB	76	82	
MAXIMUM SENSITIVITY	1400 KHz	HIGH	dB	74	82	
20 dB S / N SENSITIVITY	600 KHz	LOW	dB	82	94	
20 dB S / N SENSITIVITY	1000 KHz	MED	dB	82	94	
20 dB S / N SENSITIVITY	1400 KHz	HIGH	dB	80	94	
I.F. REJECTION	600 KHz	LOW	dB	45	35	
IMAGE REJECTION	1400 KHz + 2 I.F.	HIGH	dB	40	30	
6 dB BANDWIDTH	REF. O / P + 6 dB	MED	KHz	5	4-9	
ADJACENT CHANNEL ATTENUATION	± 10 KHz	MED	dB	23	16	
A.G.C. FIGURE OF MERIT	120 dB REF. O / P	MED	DB	40	30	
WHISTLE	100 dB	2 I.F	%	3	8	
DISTORTION	100 dB REF.O / P	MED	%	2	5	
MAXIMUM O / P	100 dB 80% MOD.	MED	W	2	1.8	
10% DISTORTION O / P	100 dB 80% MOD.	MED	W	1.5	1.2	
A.F. FREQ.RESP. - 6 dB (LOW)	100 dB REF. O / P	MED	Hz	70	150	
A.F. FREQ.RESP. - 6 dB (HIGH)	100 dB REF. O / P	MED	KHz	4	2.5	
MINIMUM VOLUME HUM			mv	2	3	

FM SPECIFICATION

MODEL : BC-4904SAC BAND : FM DATE : 2007/06/06

SUPPLY VOLTAGE	LOAD	REF. O / P	DEVIATION		DEV . FREQ	PILOT
			FM	STEREO		
AC <u>220</u> V.	<u>8 Ohm</u>	<u>50</u> mW	KHz	KHz	1 KHz	10%
DC <u>12</u> V.			22.5			

DESCRIPTION	TEST CONDITION	TEST POINT	UNIT	NOR .	LIMIT	MEAS .	
BAND COVERAGE	LOW END	LOW	MHz	87.5	+0.5/-0.5		
BAND COVERAGE	HIGH END	HIGH	MHz	108.5	+0.5/-0.5		
INTERMEDIATE FREQUENCY	HIGH END	HIGH	MHz	10.7	+/-0.1		
MAXIMUM SENSITIVITY	90 MHz	LOW	dB	15	20		
MAXIMUM SENSITIVITY	98 MHz	MED	dB	15	20		
MAXIMUM SENSITIVITY	106 MHz	HIGH	dB	15	20		
30 dB S / N SENSITIVITY	90 MHz	LOW	dB	18	26		
30 dB S / N SENSITIVITY	98 MHz	MED	dB	18	26		
30 dB S / N SENSITIVITY	106 MHz	HIGH	dB	18	26		
I.F. REJECTION		LOW	dB	55	45		
IMAGE REJECTION	106 MHz + 2 I.F.	HIGH	dB	30	20		
SELECTIVITY + - 400KHz	98 MHz + - 400 KHz	MED	dB	28	16		
- 3 dB LIMITING SENSISTIVITY	60 dB FEF.O / P	MED	dB	15	25		
A F C. HOLDING RANGE -3 dB	60 dB FEF.O / P	MED	KHz	300	160		
MINMUM VOLUME HUM			mV	2	3		
MODULATION HUM	60 dB FEF.O / P	MED	dB	50	40		
DISTORTION	60 dB FEF.O / P	MED	%	2	5		
MAXIMUM O / P	75 KHz DEV. 60 dB	MED	W	2	1.8		
10% DISTORTION O / P	75 KHz DEV. 60 dB	MED	W	1.5	1.2		
A.F. FREQ.RESP. - 6 dB (LOW)	60 dB FEF. O / P	MED	Hz	50	150		
A.F. FREQ.RESP. - 6 dB (HIGH)	60 dB FEF. O / P	MED	KHz	4.5	3.5		
STEREO INDICATOR SENS	LAMP JUST ON	MED	dB	18	25		
CHANNEL SEPARATION	75 KHz DEV. 60 dB	MED	dB	28	25		

CASSETTE SPECIFICATION

MODEL : BC-4904SAC BAND : TAPE DATE : 2007/06/06

SUPPLY VOLTAGE	LOAD	REF.O / P	TRACK SYSTEM	2 TRACK 1 CHANNEL	4 TRACK 2 CHANNEL
AC <u>220</u> V. <u> </u>	<u>8</u> Ohm	<u>50</u> mW			
DC <u>12</u> V. <u> </u>					

TYPE & AUDIO

DESCRIPTION	TEST CONDITION	UNIT	NOR .	LIMIT	B MEAS. A	
TAPE SPEED 17/8 INCH/SECOND	MTT-111N	Hz	3000	+70/-30		
WOW & FLUT TEK (JLS)	MTT-111N	%	0.15	0.3		
DISTORTION	PLAY	MTT-118N	%	2	3	
	RECORD	FM 98MHz 60dB	%	/	/	
POWER OUTPUT AT 10% THO	MTT-112BN	W	1.5	1.2		
MAX. OUTPUT POWER(EQ ROCK)	MTT-112BN	W	2	1.8		
MAX.OUTPUT POWER DISTORTION	MTT-112BN	%	20	30		
S / N RATIO	PLAY	MTT-112BN	dB	45	40	
	RECORD	FM 98MHz 60dB	dB	/	/	
HUM & NOISE	VOL. MAX.NO TAPE	mV	50	80		
	VOL. MIN.NO TAPE	mV	2	5		
CURRENT CONSUMPTION (NO SIGNAL)	PLAY	mA				
	F.FORWARD	mA				
	F.REW	mA				
F.FORWARD TIME	C60	SPC _o				
F. REM.TIME	C60	SPC _o				
CURRENT AT REF.OUTPUT		mA				
CURRENT AT MAX.OUTPUT		mA				
CHANNEL SEPARATION	MTT-121N	dB	35	30		
CROSSTALK	MTT-141N	dB	40	35		
CHANNEL BALANCE	MTT-118N	dB	1	3		
FREQ.RESP.PLAY BACK	125HZ	dB		+/-3		
	1KZ	dB		+/-0		
	6.3KHZ	dB		+/-3		
FREQ.RESPRECORD	125HZ	dB	+/-3	+/-6		
	1KZ	dB	+/-0	+/-0		
	6.3KHZ	dB	+/-3	+/-6		

CD PLAY SPECIFICATION

MODEL : BC-4904SAC BAND : CD DATE : 2007/06/06

SUPPLY VOLTAGE	LOAD	REF.O / P	
AC <u>220</u> V. <u> </u>	<u>8</u> Ohm	<u>50</u> mW	
DC <u>12</u> V. <u> </u>			

TYPE & AUDIO

DESCRIPTION	TESTDIST	TEST CON	UNIT	NOR .	LIMIT	B	MEAS. A
CD 10% DIST. OUTPUT POWER	TCD784	TN 02	W	1.5	1.2		
CD MAX. POWER OUTPUT	TCD784	TN02	W	2	1.8		
S / N RATIO	TCD784	TN02 1KHz	dB	60	50		
HUM & NOISE(VOL.MAX)			mV	1	3		
CHANNEL SEPARATION	TCD784	TN08-TN011	dB	50	40		
FREQ.RESPONSE	TCD784	TN04 100HZ	dB	0	+/-3		
		TN02 1KHZ	dB	0	0		
		TN05 10KHZ	dB	0	+/-3		
INTERRUPTION	TCD-725		mm	0.8	0.5		
BLACK DOTS	TCD-725		Mm	0.8	0.6		
FINGERPRINTS	TCD-752		Um	75	65		
ECCENTRIC	TCD711R TCD712R		Um	140	70		
VERTICAL DEVIATION	TCD731RA		mm	1.0	0.67		

AM/FM STEREO RADIO WITH CD/MP3/USB/SD PLAYER

The BOM (Part List) of BC-4904SAC

Made by: Tommy Han Date: Apr 23, 2009

Part No	Item No	Part Description	Specification	Unit	QTY
M01-201-MP357 A MP3-57AL inserting part:					
. . M01-301-MP357		MP3-57USB/SD output pcb		pcs	1
	P02-035-0350	P.C.B board	CD57--01-B1 167.5*108.3*1.6MM output pcb/radio pcb/earphone pcb	pcs	1
	P02-011-0001	IC chip	UTC1316	pcs	1
	P02-002-0084	ELECT. CAPACITOR	470UF 10V (6*11MM)	pcs	2
	P02-002-0070	ELECT. CAPACITOR	470UF 25V (6*11MM)	pcs	1
	P02-002-0020	ELECT. CAPACITOR	2200uF 25V (13*21MM)	pcs	1
	P02-086-0002	cobber wire	直径0.5*10MM	pcs	2
	P02-043-0002	paper eye	2*4MM	pcs	4
	P02-086-0003	cobber wire	直径0.5*7.5MM	pcs	1
	P02-086-0004	cobber wire	直径0.5*5MM	pcs	3
	P02-010-0005	二极管	IN4148	pcs	2
	P02-001-0015	RESISTOR	1/8W 4.7 K Ohm	pcs	2
	P02-010-0020	commutating diode	IN4004	pcs	5
	P02-010-0010	constant voltage diode	9.1V 1/2W "C" ±0.5V	pcs	1
	P02-016-0002	transistor	S9014C NPN	pcs	5
	P02-016-0005	transistor	B772 PNP	pcs	1
	P02-016-0010	transistor	D882 NPN 2A	pcs	1
	P02-032-0002	SOCKET	6PIN 2.00MM 直式	pcs	1
	P02-001-0007	RESISTOR	1/8W 120 Ohm	pcs	2
	P02-001-0010	RESISTOR	1/8W 330 Ohm	pcs	1
	P02-001-0076	RESISTOR	1/8W 390 Ohm	pcs	1

. . M01-302-MP35	P02-001-0013	RESISTOR	1/8W 2.2 K Ohm	pcs	9
	P02-001-0079	RESISTOR	1/8W 3.9 K OHM	pcs	2
	P02-001-0018	RESISTOR	1/8W 10 K Ohm	pcs	5
	P02-001-0053	RESISTOR	1/8W 15 K Ohm	pcs	2
	P02-001-0109	RESISTOR	1/8W 47 K	pcs	1
	P02-004-0004	CERAMIC CAPACITOR	22PF NPO±5%	pcs	2
	P02-004-0010	CERAMIC CAPACITOR	102PF	pcs	2
	P02-004-0014	CERAMIC CAPACITOR	203PF	pcs	4
	P02-004-0015	CERAMIC CAPACITOR	403PF	pcs	1
	P02-004-0031	CERAMIC CAPACITOR	473PF	pcs	2
	P02-002-0071	ELECT. CAPACITOR	0.47UF 50V (4*7MM)	pcs	2
	P02-002-0003	ELECT. CAPACITOR	1uF 50V(4*7MM)	pcs	4
	P02-002-0073	ELECT. CAPACITOR	4.7UF 50V (4*7MM)	pcs	2
	P02-002-0007	ELECT. CAPACITOR	47uF 16V(5*11MM)	pcs	4
	P02-002-0017	ELECT. CAPACITOR	100UF 16V (5*11MM)	pcs	4
	MP3-57USB/SD radio pcb				
	P02-043-0002	paper eye	2*4MM	pcs	1
	P02-011-0003	IC chip	SP2111N/D2111	pcs	1
	P02-004-0002	CERAMIC CAPACITOR	5PF NPO	pcs	2
	P02-004-0003	CERAMIC CAPACITOR	18PF NPO	pcs	2
	P02-004-0021	CERAMIC CAPACITOR	20PF NPO	pcs	1
	P02-004-0005	CERAMIC CAPACITOR	30PF	pcs	4
	P02-004-0007	CERAMIC CAPACITOR	100PF	pcs	1
	P02-004-0008	CERAMIC CAPACITOR	150PF	pcs	1
	P02-004-0010	CERAMIC CAPACITOR	102PF	pcs	1
	P02-004-0020	CERAMIC CAPACITOR	222PF	pcs	2
	P02-004-0012	CERAMIC CAPACITOR	103PF	pcs	1
	P02-004-0013	CERAMIC CAPACITOR	153PF	pcs	2
	P02-004-0015	CERAMIC CAPACITOR	403PF	pcs	2
	P02-004-0016	CERAMIC CAPACITOR	104PF	pcs	12

P02-002-0002	ELECT. CAPACITOR	1uF 50V (5*11MM)	pcs	2
P02-002-0004	ELECT. CAPACITOR	4. 7uF 50V (5*11MM)	pcs	1
P02-002-0017	ELECT. CAPACITOR	100UF 16V (5*11MM)	pcs	5
P02-086-0004	cobber wire	DIA 0. 5*5MM	pcs	3
P02-005-0001	FM CERAMIC CAPACITOR	L10.7A(MHZ) 3LEG	pcs	1
P02-005-0002	AM CERAMIC CAPACITOR	455B(KHZ) 3LEG	pcs	1
P02-007-0006	I.F.I	pink(PINK) 7T dia7MM (7*7*11MM)	pcs	1
P02-007-0004	I. F. I	100:10TRED) dia7MM (7*7*11MM)	pcs	1
P02-007-0001	I. F. I	157:15T YELLOW) dia 7MM (7*7*11)	pcs	1
P02-032-0001	SOCKET	2PIN 2. 00MM VERTICAL	pcs	2
P02-032-0009	SOCKET	4PIN 2. 00MM VERTICAL	pcs	2
P02-001-0138	RESISTOR	1/8W 470 OHM	pcs	1
P02-004-0039	CERAMIC CAPACITOR	180PF	pcs	1
P02-002-0001	ELECT. CAPACITOR	0. 47uF 50V (5*11MM)	pcs	1
P02-016-0003	transistor	S8050D (EBC) NPN	pcs	2
P02-016-0004	transistor	9018H NPN	pcs	2
P02-010-0008	constant voltage diode	4. 7V 1/2W "B" $\pm 0. 2V$	pcs	1
P02-010-0006	constant voltage diode	3. 9V 1/2W "B" $\pm 0. 2V$	pcs	1
P02-010-0005	diode	IN4148	pcs	2
P02-009-0001	FM coil	DIA 4. 5*4 1/2T (0. 7MM)	pcs	1
P02-009-0012	FM coil	DIA 5. 0*3 1/2T (0. 8MM)	pcs	1
P02-009-0004	FM coil	DIA 5MM*2. 5T*0. 75MM	pcs	1
P02-008-0001	INDUSTANCE	15UH 4*6MM	pcs	1
P02-001-0001	RESISTOR	1/8W 1 Ohm	pcs	1
P02-001-0015	RESISTOR	1/8W 4. 7 K Ohm	pcs	1
P02-001-0002	RESISTOR	1/8W 10 Ohm	pcs	2
P02-001-0003	RESISTOR	1/8W 22 Ohm	pcs	2
P02-001-0004	RESISTOR	1/8W 47 Ohm	pcs	2
P02-001-0006	RESISTOR	1/8W 100 Ohm	pcs	1
P02-001-0009	RESISTOR	1/8W 220 Ohm	pcs	1

	P02-001-0010	RESISTOR	1/8W 330 Ohm	pcs	1
	P02-001-0011	RESISTOR	1/8W 560 Ohm	pcs	2
	P02-001-0050	RESISTOR	1/8W 1 K Ohm	pcs	2
	P02-001-0016	RESISTOR	1/8W 5.6 K Ohm	pcs	3
	P02-001-0018	RESISTOR	1/8W 10 K Ohm	pcs	2
	P02-001-0021	RESISTOR	1/8W 39 K Ohm	pcs	1
	P02-001-0023	RESISTOR	1/8W 100 K Ohm	pcs	2
	P02-004-0001	CERAMIC CAPACITOR	2PF NPO	pcs	1
. . M01-303-MP357USB	MP3-57USB/SD keyword PCB				
	P02-001-0002	RESISTOR	1/8W 10 Ohm	pcs	3
	P02-001-0003	RESISTOR	1/8W 22 Ohm	pcs	1
	P02-001-0020	RESISTOR	1/8W 22 K Ohm	pcs	1
	P02-001-0006	RESISTOR	1/8W 100 Ohm	pcs	1
	P02-001-0050	RESISTOR	1/8W 1 K Ohm	pcs	6
	P02-001-0146	RESISTOR	1/8W 1.8 K	pcs	2
	P02-001-0013	RESISTOR	1/8W 2.2 K Ohm	pcs	2
	P02-001-0135	RESISTOR	1/8W 2.7 K	pcs	1
	P02-001-0015	RESISTOR	1/8W 4.7 K Ohm	pcs	1
	P02-001-0018	RESISTOR	1/8W 10 K Ohm	pcs	12
	P02-001-0109	RESISTOR	1/8W 47 K	pcs	5
	P02-001-0023	RESISTOR	1/8W 100 K Ohm	pcs	1
	P02-001-0036	RESISTOR	1/4W 470 Ohm	pcs	1
	P02-004-0005	CERAMIC CAPACITOR	30PF	pcs	2
	P02-004-0016	CERAMIC CAPACITOR	104PF	pcs	6
	P02-002-0003	ELECT. CAPACITOR	1uF 50V (4*7MM)	pcs	4
	P02-002-0076	ELECT. CAPACITOR	10UF 16V (4*7MM)	pcs	1
	P02-002-0064	ELECT. CAPACITOR	100UF 16V (5*7MM)	pcs	3
	P02-086-0004	copper wire	dia 0.5*5MM	pcs	5
	P02-006-0001	晶振/Oscillator	32.768Mhz (2LEADS) 3*8MM	pcs	1
	P02-016-0002	transistor	S9014C NPN	pcs	4

	P02-011-0004	bonding IC	SC3610D	pcs	1
	P02-011-0094	bonding IC	LCD driving bodingIC ET1621 26P 20*10MM	pcs	1
	P02-010-0002	constant voltage diode	5.6V 1/2W "B" $\pm 0.2V$	pcs	1
	P02-010-0005	diode	IN4148	pcs	8
	P02-035-0365	P.C.B	(MP3/USB)57-01-B1 82*75*1.6MM keyword	pcs	1
	P02-002-0025	ELECT. CAPACITOR	220uF 10V (6*7.5MM)	pcs	1
	. . M01-303-MP3/28N	MP3-28N CD pcb	double surface		
	P02-008-0008	INDUSTANCE SMD	BEAD-300Y (PACKAGE 0603)	pcs	10
	P02-010-0029	DIODE SMD	IN4148/SOD-323	pcs	2
	P02-002-0006	ELECT. CAPACITOR	47uF 16V (4*7MM)	pcs	3
	P02-006-0002	晶振/Oscillator	16.93Mhz (2LEADS) 49S	pcs	1
	P02-032-0001	SOCKET	2PIN 2.00MM VERTICAL	pcs	2
	P02-032-0003	SOCKET	3PIN 2.00MM VERTICAL	pcs	2
	P02-032-0007	SOCKET	5PIN 2.00MM VERTICAL	pcs	1
	P02-032-0002	SOCKET	6PIN 2.00MM VERTICAL	pcs	2
	P02-016-0009	TRansistor	2SB764E -SSH PNP	pcs	2
	P02-032-0006	SOCKET	1.0MM PITCH 16 PIN 180 VERTICAL	pcs	1
	P02-032-0077	SOCKET	1.0MM PITCH 14 PIN 180 VERTICAL	pcs	1
	P02-004-0124	CERAMIC CAPACITOR SMD	30PF 0603 $\pm 5\%$	pcs	2
	P02-004-0125	CERAMIC CAPACITOR SMD	823PF 0603 $\pm 5\%$	pcs	2
	P02-002-0064	ELECT. CAPACITOR	100UF 16V (5*7MM)	pcs	3
	P02-002-0115	ELECT. CAPACITOR	220UF 16V 6*7MM	pcs	3
	P02-011-0089	IC CHIP SMD	CYT8117T33 (PACKAGE SOT-223/SE 8117T33/AMS1117/3.3	pcs	1
	P02-011-0157	IC chip	M5673 (CPU)	set	1
	P02-011-0160	IC chip	P10-100GCP/25L1005MC (M5673 18USB/SD SOFTWARE)	pcs	1
	P02-011-0039	IC chip	CD9259/AAI9259/SA9259/KA9259	pcs	1
	P02-035-0430	P.C.B BOARD	ALI-M5673-USB-V01 70*55MM CD PCB	pcs	1
	P02-004-0126	CERAMIC CAPACITOR SMD	474PF 0603 $\pm 5\%$	pcs	1
	P02-010-0020	commutating diode	IN4004	pcs	1
	P02-016-0040	transistor SMD	S8050D NPN EBC	pcs	5

	P02-016-0041	transistor SMD	S8550D PNP (EBC)	pcs	2
	P02-001-0176	RESISTOR SMD	4.7K 1/10W $\pm 5\%$ 0603	pcs	1
	P02-001-0162	RESISTOR SMD	0 OHM (PACKAGE 0603) $\pm 5\%$	pcs	6
	P02-001-0185	RESISTOR SMD	10 OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0205	RESISTOR SMD	560 ohm 0603 $\pm 5\%$	pcs	1
	P02-001-0188	RESISTOR SMD	1K OHM 0603 $\pm 5\%$	pcs	3
	P02-001-0165	RESISTOR SMD	1.5 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	2
	P02-001-0214	RESISTOR SMD	3.3K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0189	RESISTOR SMD	5.1K OHM 0603 $\pm 5\%$	pcs	1
	P02-001-0166	RESISTOR SMD	10 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	22
	P02-001-0190	RESISTOR SMD	22K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0168	RESISTOR SMD	27 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	1
	P02-001-0191	RESISTOR SMD	33K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0199	RESISTOR SMD	39K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0169	RESISTOR SMD	100 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	6
	P02-004-0081	CERAMIC CAPACITOR SMD	102PF 0603 $\pm 5\%$	pcs	2
	P02-004-0069	CERAMIC CAPACITOR SMD	103/6V $\pm 5\%$ 0603	pcs	2
	P02-004-0074	CERAMIC CAPACITOR SMD	473PF 0603 $\pm 5\%$	pcs	1
	P02-004-0075	CERAMIC CAPACITOR SMD	104PF 0603 $\pm 5\%$	pcs	25
	P02-004-0064	CERAMIC CAPACITOR SMD	105/6V $\pm 5\%$ 0603	pcs	1
	P02-004-0076	CERAMIC CAPACITOR SMD	1UF 0603 $\pm 5\%$	pcs	2
	P02-002-0076	ELECT. CAPACITOR	10UF 16V (4*7MM)	pcs	9
	. . M01-304-MP3/28N	MP3-18N CD pcb	double surface		
	P02-008-0008	DIODE SMD	BEAD-300Y (PACKAGE 0603)	pcs	10
	P02-010-0029	ELECT. CAPACITOR	IN4148/SOD-323	pcs	2
	P02-002-0006	晶振/Oscillator	47uF 16V (4*7MM)	pcs	3
	P02-006-0002	SOCKET	16.93Mhz (2LEADS) 49S	pcs	1
	P02-032-0001	SOCKET	2PIN 2.00MM VERTICAL	pcs	2
	P02-032-0003	SOCKET	3PIN 2.00MM VERTICAL	pcs	2
	P02-032-0007	SOCKET	5PIN 2.00MM VERTICAL	pcs	1

	P02-032-0002	TRansistor	6PIN 2.00MM VERTICAL	pcs	2
	P02-016-0009	SOCKET	2SB764E -SSH PNP	pcs	2
	P02-032-0006	SOCKET	1.0MM PITCH 16 PIN 180 VERTICAL	pcs	1
	P02-032-0077	CERAMIC CAPACITOR SMD	1.0MM PITCH 14 PIN 180 VERTICAL	pcs	1
	P02-004-0124	CERAMIC CAPACITOR SMD	30PF 0603 $\pm 5\%$	pcs	2
	P02-004-0125	CERAMIC CAPACITOR SMD	823PF 0603 $\pm 5\%$	pcs	2
	P02-002-0064	ELECT. CAPACITOR	100UF 16V (5*7MM)	pcs	3
	P02-002-0115	ELECT. CAPACITOR	220UF 16V 6*7MM	pcs	2
	P02-004-0126	CERAMIC CAPACITOR SMD	474PF 0603 $\pm 5\%$	pcs	1
	P02-002-0027	ELECT. CAPACITOR	470uF 16V (8*12MM)	pcs	1
	P02-010-0020	commutating diode	IN4004	pcs	1
	P02-016-0040	transistor SMD	S8050D NPN EBC	pcs	5
	P02-016-0041	transistor SMD	S8550D PNP (EBC)	pcs	2
	P02-001-0176	RESISTOR SMD	4.7K 1/10W $\pm 5\%$ 0603	pcs	1
	P02-001-0162	RESISTOR SMD	0 OHM (PACKAGE 0603) $\pm 5\%$	pcs	5
	P02-001-0185	RESISTOR SMD	10 OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0205	RESISTOR SMD	560 ohm 0603 $\pm 5\%$	pcs	1
	P02-001-0188	RESISTOR SMD	1K OHM 0603 $\pm 5\%$	pcs	4
	P02-001-0165	RESISTOR SMD	1.5 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	2
	P02-001-0214	RESISTOR SMD	3.3K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0189	RESISTOR SMD	5.1K OHM 0603 $\pm 5\%$	pcs	1
	P02-001-0166	RESISTOR SMD	10 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	24
	P02-001-0190	RESISTOR SMD	22K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0168	RESISTOR SMD	27 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	1
	P02-001-0191	RESISTOR SMD	33K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0199	RESISTOR SMD	39K OHM 0603 $\pm 5\%$	pcs	2
	P02-001-0169	RESISTOR SMD	100 K OHM (PACKAGE 0603) $\pm 5\%$	pcs	6
	P02-004-0080	CERAMIC CAPACITOR SMD	330PF 0603 $\pm 5\%$	pcs	2
	P02-004-0069	CERAMIC CAPACITOR SMD	103/6V $\pm 5\%$ 0603	pcs	2
	P02-004-0074	CERAMIC CAPACITOR SMD	473PF 0603 $\pm 5\%$	pcs	1

	P02-004-0075	CERAMIC CAPACITOR SMD	104PF 0603 ±5%	pcs	25
	P02-004-0064	CERAMIC CAPACITOR SMD	105/6V±5% 0603	pcs	1
	P02-004-0076	CERAMIC CAPACITOR SMD	1UF 0603 ±5%	pcs	2
	P02-002-0076	ELECT. CAPACITOR	10UF 16V (4*7MM)	pcs	9
	. . M01-305-MP3/28N	MP3-18N CD pcb	double surface		
	P02-011-0089	IC chip SMD	CYT8117T33 (PACKAGE SOT-223/SE 8117T33/AMS1117/3.3	pcs	1
	P02-011-0157	IC chip	M5673 (CPU)	pcs	1
	P02-011-0039	IC chip	CD9259/AAI9259/SA9259/KA9259	pcs	1
	P02-035-0430	P.C.B	ALI-M5673-USB-V01 70*55MM CD PCB	pcs	1
	P02-011-0160	IC chip	P10-100GCP/25L1005MC (M5673 18USB/SD SOFTWARE)	pcs	1
MP3-57USB 5673USB板部份					
	P02-001-0134	RESISTOR	1/8W 1.2 K	pcs	2
	P02-001-0013	RESISTOR	1/8W 2.2 K Ohm	pcs	1
	P02-001-0023	RESISTOR	1/8W 100 K Ohm	pcs	1
	P02-001-0090	RESISTOR	1/8W 330 K	pcs	1
	P02-001-0025	RESISTOR	1/8W 1 M Ohm	pcs	1
	P02-008-0005	MAGENTIC INDUSTANCE	22UH 3.5*3MM 3T5	pcs	1
	P02-032-0011	SOCKET	4PIN 2.0MM BOW	pcs	2
	P02-032-0078	SOCKET	1.0MM PITCH 14 PIN 180 BOW	pcs	1
	P02-002-0003	ELECT. CAPACITOR	1uF 50V(4*7MM)	pcs	1
	P02-002-0072	ELECT. CAPACITOR	100UF 10V (4*7MM)	pcs	2
	P02-004-0016	CERAMIC CAPACITOR	104PF	pcs	1
	P02-008-0006	RING INDUCSTANCE	10UH	pcs	2
	P02-016-0015	TRANSISTOR	S8550 EBC PNP	pcs	1
	P02-086-0003	copper wire	DIA 0.5*7.5MM	pcs	3
	P02-035-0443	P.C.B	CD57USB(5673)-03-B1 108.6X35.3X1.6MM	pcs	1
BC-4904SAC ACCSSORY PART:					
	P02-023-0002	iihting LED	dia 3MM lamp 3V L=20MM	pcs	1
	P02-023-0001	iihting LED	dia 3MM lamp 3V L=30MM	pcs	1
	P02-032-0041	USB socket	USB A TYPE 4P	pcs	1

P02-032-0042	SD socket	SDC0-09M1-WG40-10	pcs	1
P02-028-0085	singl plug corssing line (color)	6P 28# 2.0MM L=150MM	pcs	1
P02-028-0194	singl plug corssing line (color)	2P 26# (2.0MM) L=300MM	pcs	1
P02-028-0447	optical lens crossing line	14P FCC 1.0MM L=200MM(反向)	pcs	1
P02-029-0086	PVC wire	20# L=200MM 黑色	pcs	1
P02-088-0001	RC receiver	7.6*7.2*5.2MM 5V	pcs	1
P02-019-0002	revolving potentiometer	0171-2 30/5 B50K #CD10	pcs	1
P02-013-0001	pvc connect-adjustable capacitance	DF443DF01-A04"NCE"(AM/FM/2BAND(126/20)PF(88R)	pcs	1
P02-015-0003	touching switch	TACT:6*6*5MM	pcs	8
P02-037-0002	AM coil	120:20T(3+1)4WIRE*100MM dia11MM	pcs	1
P02-039-0002	the bracket of am antenna	5*13*20MM flat	pcs	1
P02-038-0001	AM coil(flat style)	5*13*55MM(2013#)	pcs	1
P02-015-0034	band switch	SS43D13M12	pcs	2
P03-053-0001	radiator<two hole>	7808IC()	pcs	1
P02-032-0020	earphone socket	dia 3.5MM STEREO JACK with switch:EJ-3507-202	pcs	1
P02-022-0063	LCD displaying #MP3-57 analo	47*24*22 voltage 3.3V	pcs	1
P02-029-0059	PVC wire	26# L=100MM	pcs	1
P02-029-0049	PVC wire	26# L=250MM	pcs	2
P02-029-0055	PVC wire	26# L=250MM	pcs	1
P02-029-0069	PVC wire	20# L=150MM	pcs	1
P02-028-0050	singl plug corssing line (color)	2P 26# 2.0MM L=150MM	pcs	3
P02-028-0082	singl plug corssing line (color)	4P 26# 2.0MM L=200MM	pcs	2
P02-028-0221	singl plug corssing line (grey)	6P 2.0MM L=300MM	pcs	1
P02-028-0100	double plug corssing line (color)	6P 28# (2.0MM) L=150MM(反向)	pcs	1
P02-028-0111	single shielding line	3P (2.0MM) 直径1.8MM L=180MM	pcs	1
P02-028-0047	optical lens crossing line	16P FCC 1.0MM L=120MM(同向)	pcs	1
P02-028-0135	singl plug corssing line (color)	4P 26# 2.0MM L=260MM	pcs	1
P02-028-0064	singl plug corssing line (color)	4P 26# 2.0MM L=300MM	pcs	1
P02-028-0191	singl plug corssing line (color)	3P 2.0MM L=150MM	pcs	1

MP390 PACKING PART					
	P02-030-0015	AC cable	VDE approved 0.75MM, round pin, brazile standard plug/1.8M	pcs	1
	M01-100-S5L8020-(USB+S	S5L8020-(USB+SD) REMOTE CONTROL		pcs	1
	P04-060-0139	Manual	MP3-57USB/SD	pcs	1
	P07-077-0003	rubber feet	8.0*8.0*2.0MM	pcs	1
	P04-058-0059	carton#CD-57	525*334*436MM	pcs	1
	P04-059-0045	giftbox #CD-57	320*210*170MM 300G	pcs	1
	P04-056-0001	QC pass label		pcs	1
	P04-062-0037	ployfoam #CD57		pcs	1
	P04-056-0002	Laser label		pcs	4
	rating label	44*24*0.1MM	44*24*0.1MM	pcs	0.17
	the ploybag of unit	370*530MM	370*530MM(370开口)	pcs	1
	P04-064-0003	AC cable/ bag	80*300MM	pcs	1
	P04-064-0004	Manual Bag(CD90)	155*250MM	pcs	1
	P04-063-0002	mechanism anti-dirt paper(CD)	90*49*0.8MM	pcs	1
	P04-089-0001	belting tape	0.05*7*70 CM	pcs	1
METAL PARTS					
	. . P02-030-0008	pricked wire	L=40MM	pcs	5
	. . P03-042-0004	screw	2.0*10 PA	pcs	1
	. . P03-042-0086	screw	3*10 KA	pcs	4
	. . P03-042-0006	screw	2.6*6 KA	pcs	3
	. . P03-042-0019	screw	3.0*8 PWA (P5MM W7MM)	pcs	14
	. . P03-042-0008	screw	3.0*12 PWA (P5MM W10MM)	pcs	2
	. . P03-042-0010	screw	2.0*4 PB	pcs	1
	. . P03-042-0015	screw	2.6*5 PM	pcs	1
	. . P03-042-0011	screw	2.6*4 KM (D=4MM)	pcs	2
	. . P03-042-0114	screw	2.6*10 PA	pcs	4
	. . P03-042-0032	screw	3.0*16 PA	pcs	5
	. . P02-012-0018	CD mechanism	CD MECHANISM (SANYO)	pcs	1

P03-042-0020	screw	3.0*10 PWA (P5MM W7MM)	pcs	8
	screw	3.0*8 PM	pcs	1
	CD door spring	dia 1.2MM steel spring	pcs	1
	antenna	128.50MM	pcs	1
	single PVC sheet(CD91)	44*25.1*0.3MM	pcs	1
	magnet	dia 30*16.3*5.0	pcs	1
	speaker #CD57	silver	pcs	2
	sheet switch	LS323	pcs	1
	speaker cd#10	3.0inch/8 Ohm/3W/45 magentic	pcs	2
	CD door switch	PR-5	pcs	1
	screw	3.0*6 PA	pcs	2
	AC power socket	AC-001/AS-203S	pcs	1
	suffer batteris spring	dia 1.0MM steel spring	pcs	1
	positive batteris spring	dia 1.0MM steel spring	pcs	1
	"+&-" batteries spring A	dia 1.0MM steel spring	pcs	1
	+&- batteries spring B	dia 1.0MM steel spring	pcs	1
	screw	3.0*6 PM	pcs	1
	screw	3.0*8 PA	pcs	11
	screw	2.6*8*5.5 PWA	pcs	1
	screw	3.0*10 PA	pcs	5
P07-087-0002	CD mechanism anti-shock rubb	40 degree(green color)	pcs	2
P07-087-0001	CD mechanism anti-shock rubber	30 degree(red)	pcs	2
P02-083-0018	adaptor	EI-48*23.5(horizontal)intput:110/220VAC output:1200MA/10VAC	pcs	1
P02-054-0001	FM antenna solding sheet #CD	long	pcs	1
P02-015-0005	changing voltage switch		pcs	1

PLASTIC PARTS (BC-4904SAC)					
. . M01-305-CD57	front cabinet(CD57)			pcs	1
	P05-070-0001	HIPS plastic	475 grey	kg	0.19

. . M01-306-CD57	back cabinet (CD57)			pcs	1
	P05-070-0001	HIPS plastic	475 grey	kg	0.03
. . M01-307-CD57	CD door (CD57)			pcs	1
	P05-070-0001	HIPS plastic	475 grey	kg	0.09
. . M01-308-CD57	CD door (CD57)			pcs	1
	P05-070-0001	HIPS plastic	475 grey	kg	0.07
. . M01-309-CD57	the braket of background lens (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-310-CD57	the bracket of VC knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-311-CD57	the lift cover (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0.06
. . M01-312-CD57	the right cover (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0.06
. . M01-313-CD57	the fixed bracket of vc knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-314-CD57	PVC gear (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-315-CD57	the bracket of cd knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-316-CD57	the bracket of USB (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0.01
. . M01-318-CD57	banding switch (CD57)			pcs	2
	P05-069-0001	ABS plastic	black	kg	0
. . M01-319-CD57	VR knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-320-CD57	VC knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-321-CD57	the description of CD knob (CD57)			pcs	1
	P05-069-0001	ABS plastic	black	kg	0
. . M01-322-CD57	CD displaying lens (CD57)			pcs	1
	P05-072-0002	Gp plastic	GP-33, from taiwan	kg	0
. . M01-323-CD57	CD transparent lens (CD57)			pcs	1
	P05-072-0002	Gp plastic	GP-33, from taiwan	kg	0
. . M01-324-CD57	the lens of RC reciver (CD57)			pcs	1

	. . P03-042-0020	screw	3.0*10 PWA (P5MM W7MM)	pcs	8
	. . P03-042-0013	screw	3.0*8 PM	pcs	1
	. . P03-047-0041	CD door spring	dia 1.2MM steel spring	pcs	1
	. . P03-041-0007	antenna	128.50MM	pcs	1
	. . P04-065-0042	single PVC sheet(CD91)	44*25.1*0.3MM	pcs	1
	. . P02-084-0001	magnet	dia 30*16.3*5.0	pcs	1
	. . P03-079-0089	speaker #CD57	silver	pcs	2
	. . P02-015-0004	sheet switch	LS323	pcs	1
	. . P02-025-0005	speaker cd#10	3.0inch/8 Ohm/3W/45 magentic	pcs	2
	. . P02-015-0019	CD door switch	PR-5	pcs	1
	. . P03-042-0005	screw	3.0*6 PA	pcs	2
	. . P02-032-0023	AC power socket	AC-001/AS-203S	pcs	1
	. . P03-048-0005	suffer batteris spring	dia 1.0MM steel spring	pcs	1
	. . P03-048-0004	positive batteris spring	dia 1.0MM steel spring	pcs	1
	. . P03-048-0011	"+&-" batteries spring A	dia 1.0MM steel spring	pcs	1
	. . M01-328-CD57	+&- batteries spring B	dia 1.0MM steel spring	pcs	1
	. . P03-042-0027	screw	3.0*6 PM	pcs	1
	. . P03-042-0001	screw	3.0*8 PA	pcs	11
	. . P03-042-0103	screw	2.6*8*5.5 PWA	pcs	1
	. . P03-042-0009	screw	3.0*10 PA	pcs	5
	P07-087-0002	CD mechanism anti-shock rubb	40 degree(green color)	pcs	2
	P07-087-0001	CD mechanism anti-shock rubber	30 degree(red)	pcs	2
	P02-083-0018	adaptor	EI-48*23.5(horizontal)intput:110/220VAC output:1200MA/10VAC	pcs	1
	P02-054-0001	FM antenna solding sheet #CD	long	pcs	1
	. . P02-015-0005	changing voltage switch		pcs	1

PLASTIC PARTS (BC-4904SAC)					
. . M01-305-CD57	front cabinet(CD57)			pcs	1
	P05-070-0001	HIPS plastic	475 grey	kg	0.19