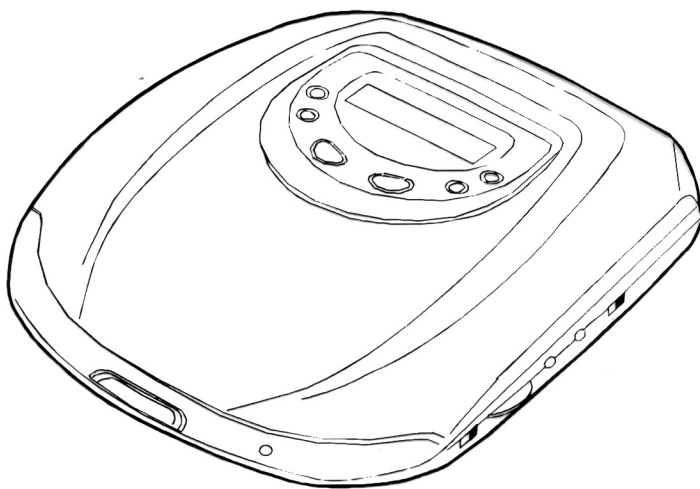


DAEWOO

Service Manual

PORTABLE COMPACT DISC
PLAYER W/ANTI-SHOCK

CD-404



DAEWOO ELECTRONICS CO., LTD.

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1. ALIGNMENT INSTRUCTION

STEP NO.	TEST EQUIPMENT	SIGNAL IN	SIGNAL OUT	ADJUSTMENT POINT	REMARK
1	OSCLLISCOPE	ABEX-782 NO.2	TAKE OUT FROM TP104 & TP101 SEE FIGURE 1	ADJUST VR101 TO GET A=B SEE FIGURE 3	TAP504 SHORT TAP501 SHORT
2	OSCLLISCOPE	ABEX-782 NO.2	TAKE OUT FROM TP102 & TP101 SEE FIGURE 2	MAKE SURE EYELET -HOLE IS CLEAR SEE FIGURE 4	TAP504 SHORT

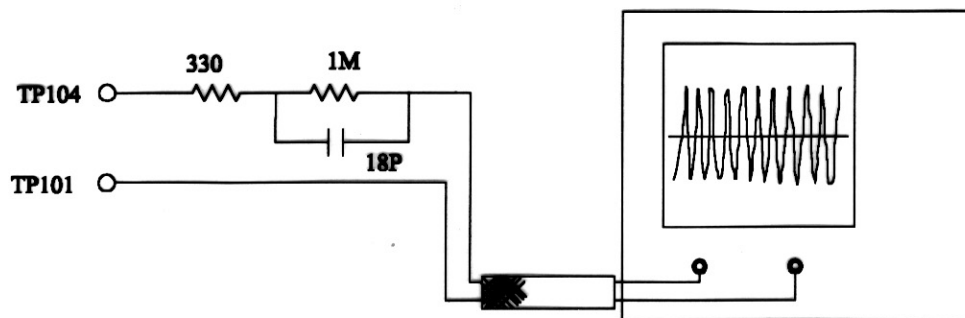


FIGURE 1

OSCLLISCOPE

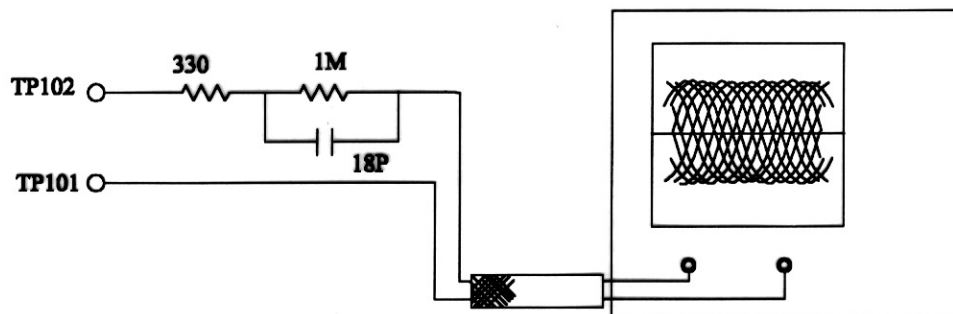


FIGURE 2

OSCLLISCOPE

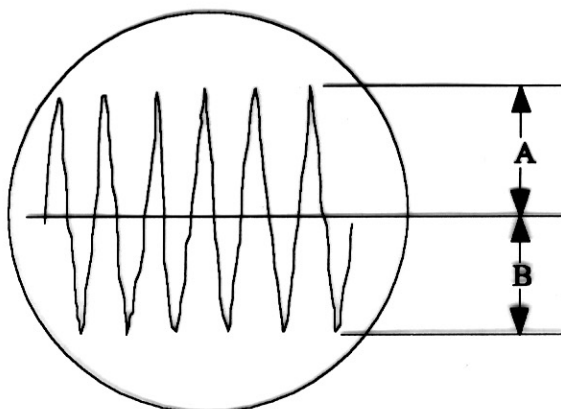


FIGURE 3

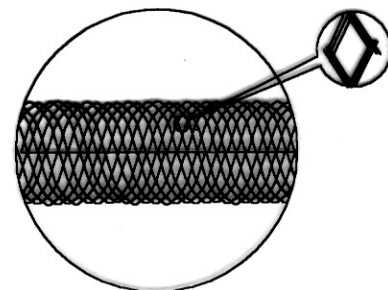


FIGURE 4

2. PRODUCT SPECIFICATION

(1)CD Playing Performance Data PHONE OUTPUT

Model :	Brand: Daewoo	Date:	Sheet 1 of 2
Supply Voltage: 3V	Standard Output 2 MW	Load Resistance: 32 OHM	Part: Preliminary
Ext Supply Voltage 4.5V			REV: 0

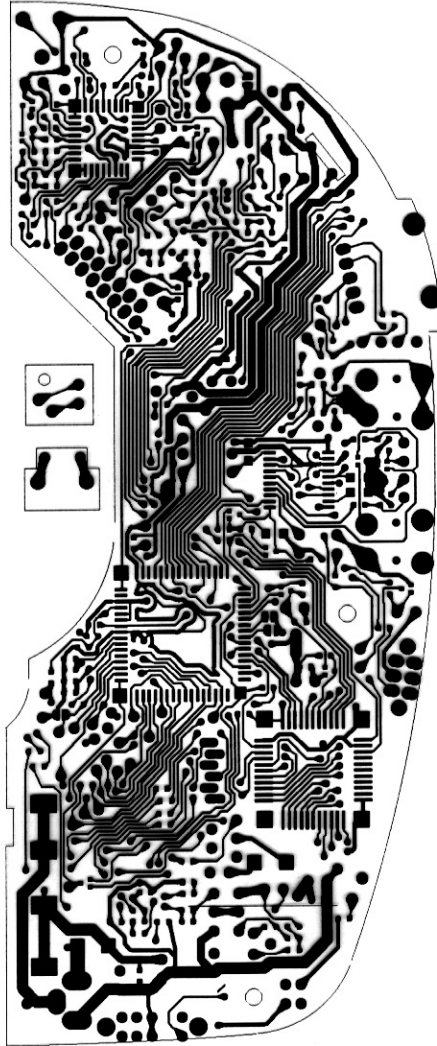
ITEM #	MEASURING ITEMS		Unit	SPECIFICATIO		TEST CONDITION	TEST	
				Normal	Limit		Sample1	Sample2
1	T. H. DISTORTION 1KHz = 0dB W/L.P.F. FC=30KHz		%	0.1	0.5	ABEX TCD - 782		
2	S/N RATIO 1KHz = 0dB W/"A" CURVE BPF		dB	75	68	ABEX TCD - 782		
3	CHANNEL SPARATION 1KHz W/L.P.F. FC=30KHz 10KHz W/L.P.F. FC=30KHz		dB	58	50	ABEX TCD - 782		
			dB	58	50			
4	FREQUENCY RESPONSE	63Hz	dB	3	+/-3	ABEX TCD - 782		
		100Hz	dB	0	+/-3			
		10KHz	dB	0	+/-3			
		20KHz	dB	3	+/-4			
5	CHANNEL BALANCE 1KHz		dB		2	ABEX TCD - 782		
6	BASS BOOST 100Hz		dB	7.0	+/-2	ABEX TCD - 782		
7	MINIMIM HUM & NOISE		MV	1	2			
8	INTERRUPTION		UM	900	700	PHILIPS (SBC-444A) & ABEX TCD-725B		
9	BLACK DOT		UM	1000	800	PHILIPS (SBC-444A) & ABEX TCD-725B		
10	FINGER PRINT		UM		75	PHILIPS (SBC-444A) & ABEX TCD-725B		
11	OUTPUT POWER		MW	20	15	ABEX TCD - 782		
12	VERTICAL DEVIATION		MM		0.8	E		
13	ECCENTRICITY		UM		210	ABEX TCD - 713		

(2)CD Playing Performance Data LINE OUTPUT

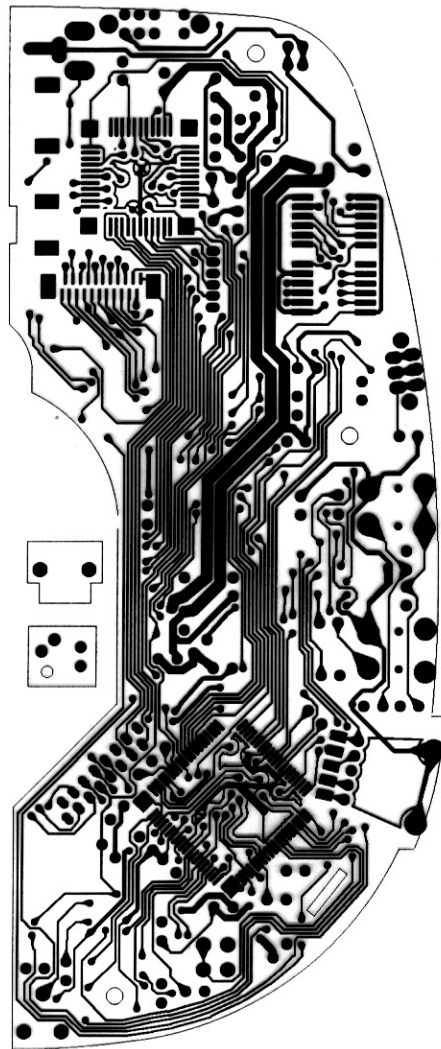
Model :	Brand: Daewoo	Date:	Sheet 2 of 2
Supply Voltage: 3V	Standard Output	Load Resistance: 10K OHM	Part: Preliminary
Ext Supply Voltage 4.5V			REV: 0

ITEM #	MEASURING ITEMS		Unit	SPECIFICATIO		TEST CONDITION	TEST	
				Normal	Limit		Sample1	Sample2
1	T. H. DISTORTION 1KHz = 0dB W/L.P.F. FC=30KHz		%	0.1	0.5	ABEX TCD - 782		
2	S/N RATIO 1KHz = 0dB W/"A" CURVE BPF		dB	75	70	ABEX TCD - 782		
3	CHANNEL SPARATION 1KHz W/L.P.F. FC=30KHz		dB	58	50	ABEX TCD - 782		
	10KHz W/L.P.F. FC=30KHz		dB	58	50			
4	FREQUENCY RESPONSE	63Hz	dB	3	+/-3	ABEX TCD - 782		
		100Hz	dB	0	+/-3			
		10KHz	dB	0	+/-3			
		20KHz	dB	3	+/-4			
5	CHANNEL BALANCE 1KHz		dB		2	ABEX TCD - 782		
6	OUTPUT LEVEL		MW	600	500	ABEX TCD - 782		

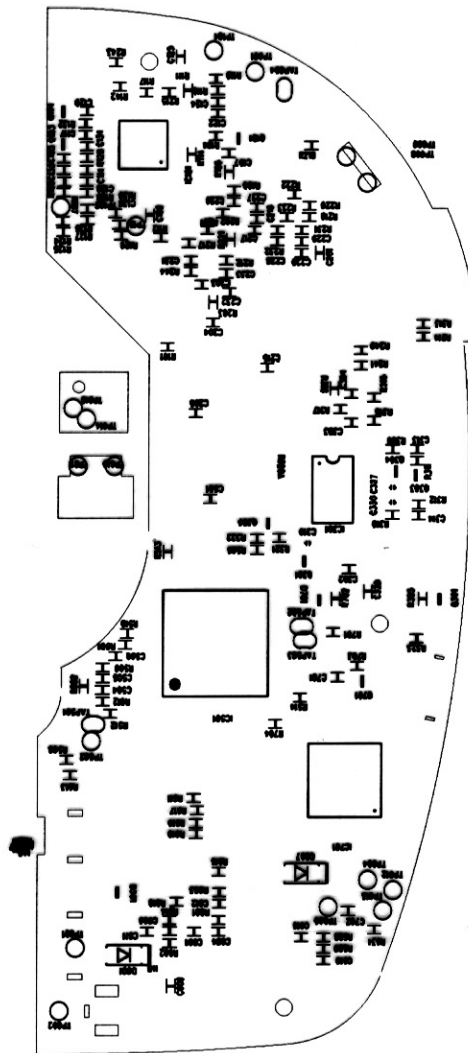
3. P.C. BOARD



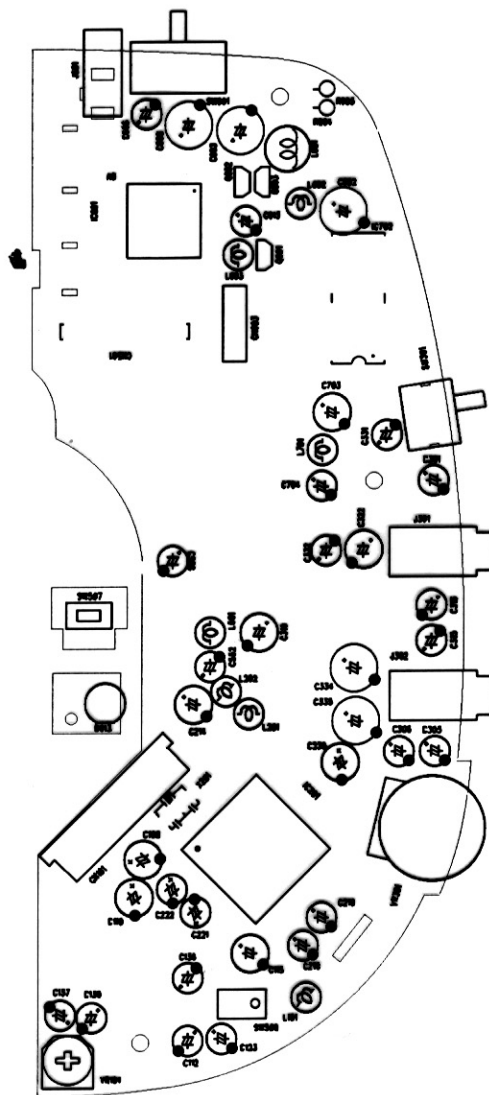
MAIN BORAD BOTTOM



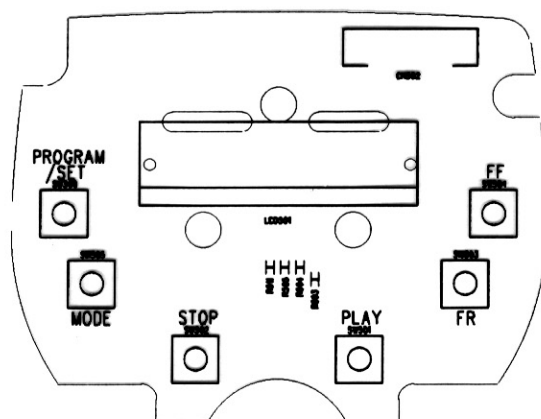
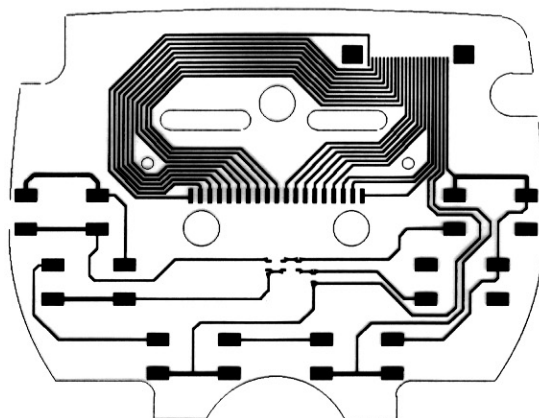
MAIN BORAD TOP



MAIN BORAD BOTTOM

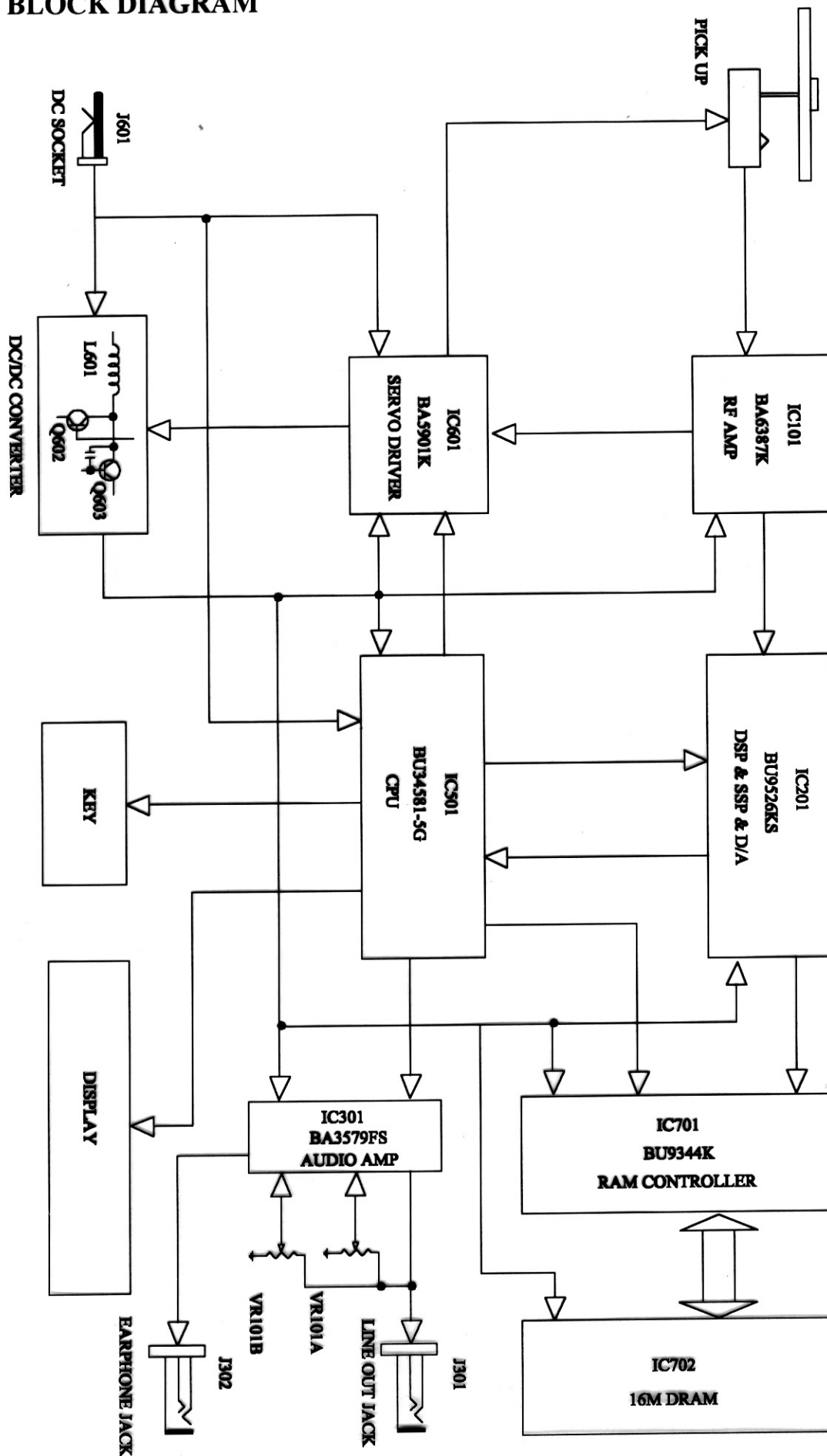


MAIN BORAD TOP

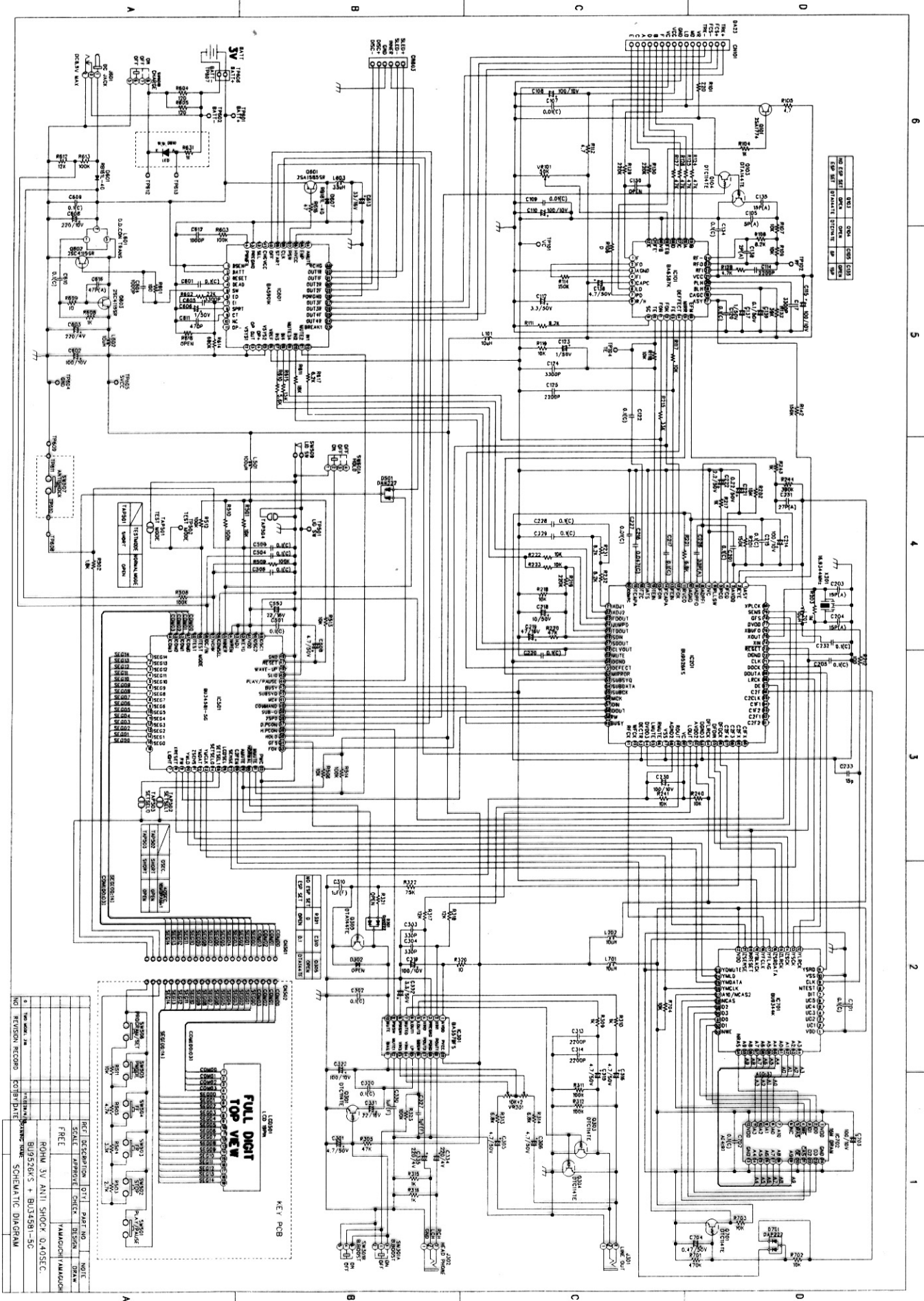


KEY BORAD

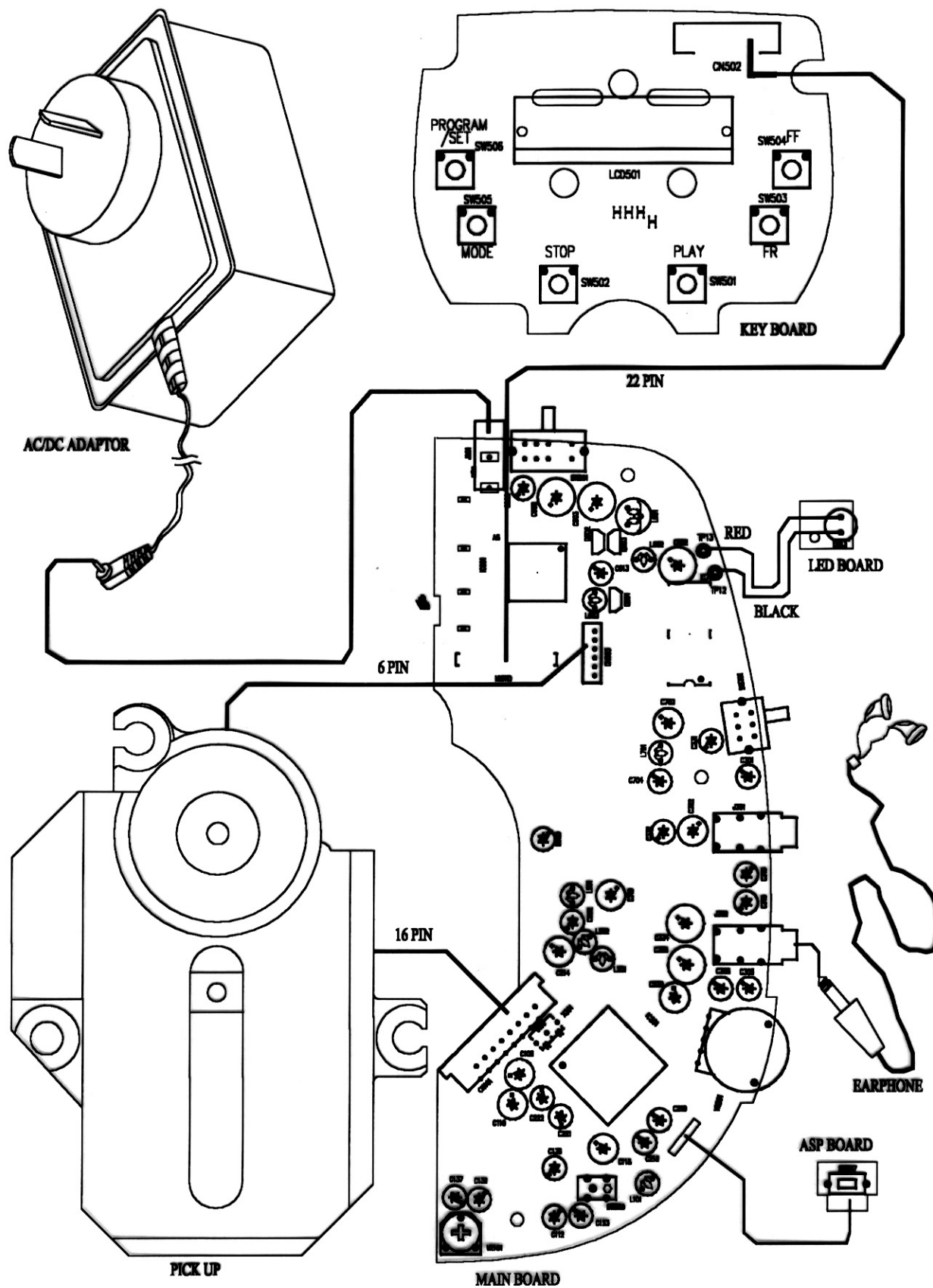
4. BLOCK DIAGRAM



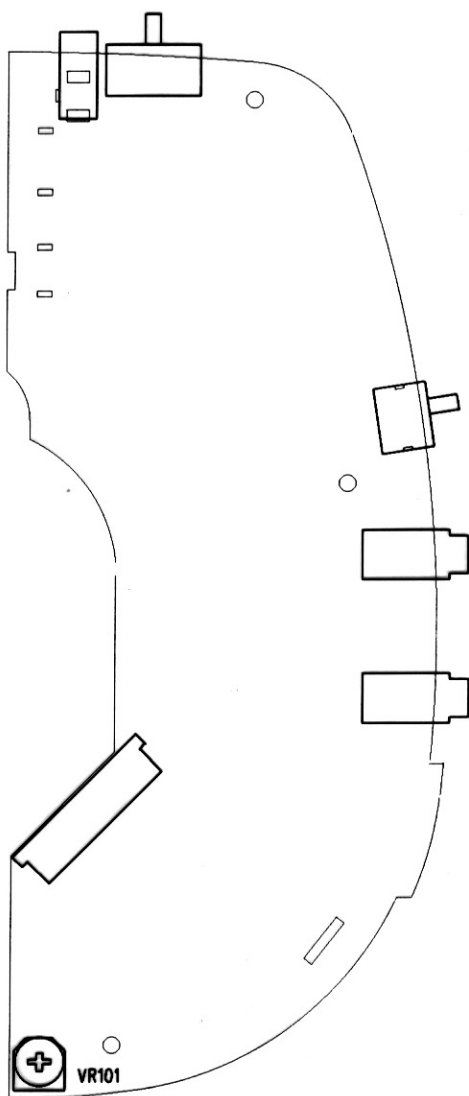
5. SCHEMATIC DIAGRAM



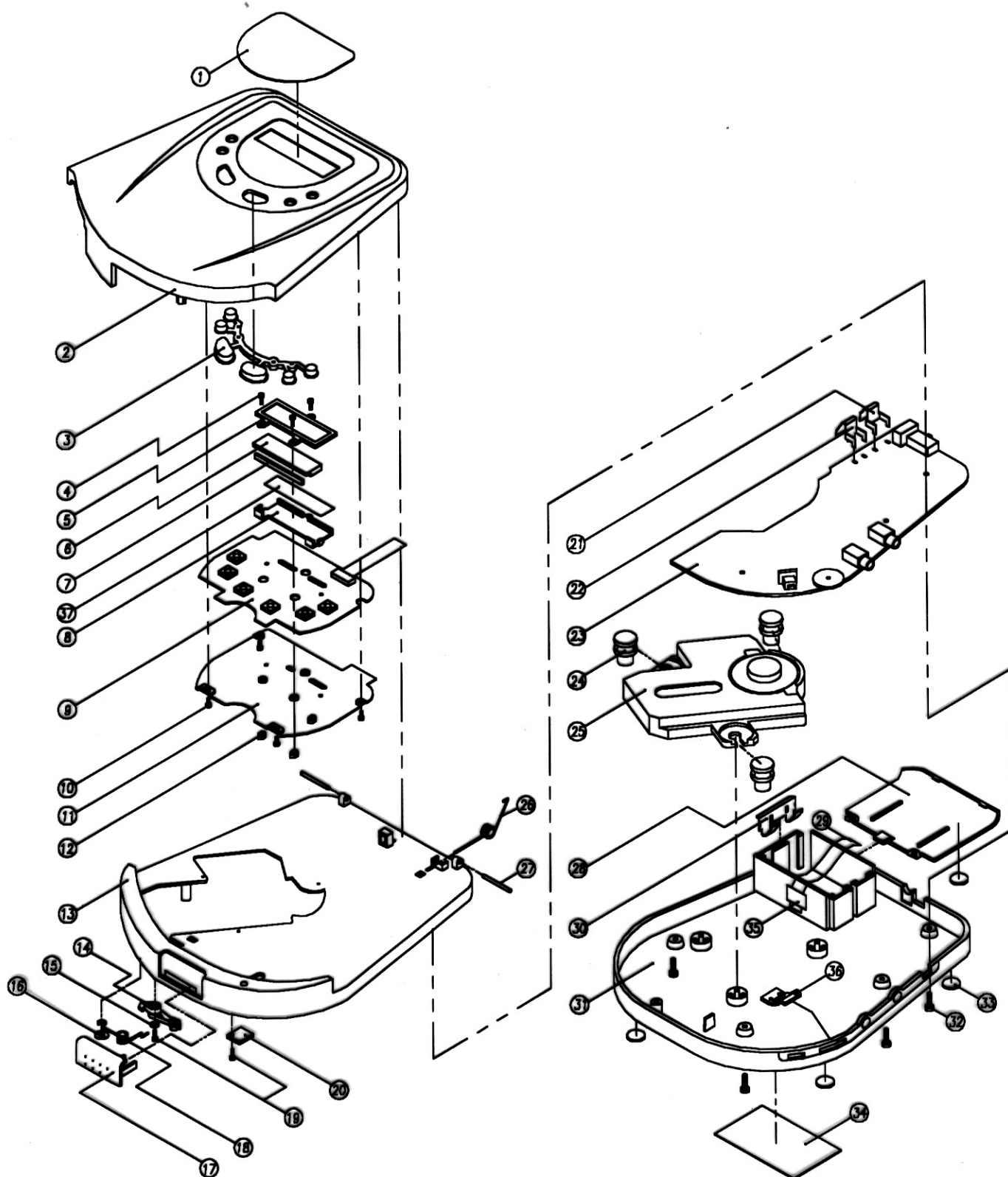
6. WIRING DIAGRAM



7. ALIGNMENT ADJUSTMENT



8. EXPLODED VIEW



9. EXPLODED VIEW PARTS LIST

ITEM	PART NAME	DESCRIPTION	PART NUMBER	QTY
1	DISPLAY LENS		310-031800-000	1
2	CD DOOR		210-031800-000	1
3	FUNCTION KNOB		245-031800-000	1
4	MACHINE SCREW	MACHINE SCREW M1.7 x 3MM BM(BLK)	363-170300-002	3
5	DISPLAY MTG BKT		333-031805-01	1
6	LCD DISPLAY		134-533392-07	1
7	ZEBRA CONNECTOR YS	PITCH=0.18 25(L) x 2(W) x 2.5(H)	424-031800-00	1
8	DISPLAY HOLDER		271-031800-000	1
9	DISPLAY PCB	DISPLAY PCB(54.4 x 71 x 0.6)mm	190-318050-460	1
10	CAMERA SCREW	CAMERA SCREW T1.4 x 3MM BB	378-140320-002	4
11	DISPLAY PCB MTG PLATE		332-031805-08	1
12	NUT.	NUT, M1.7	381-170305-122	3
13	MIDDLE CABINET		202-031800-000	1
14	OPEN KNOB HOLDER		261-031800-000	1
15	PLAIN WASHER	PLAIN WASHER $\phi 1.8 \times \phi 3.9 \times 0.3$ THK	384-180395-038	1
16	PLAIN WASHER	PLAIN WASHER $\phi 2.3 \times \phi 6 \times 0.3$ THK	384-230605-038	1
17	OPEN KNOB		243-031800-000	1
18	OPEN KNOB SPRING		396-031800-00	1
19	CAMERA SCREW	CAMERA SCREW T1.4 x 4MM BB	378-140420-002	2
20	LED PCB	LED PCB(9 x 8 x 1.2)MM	190-318051-460	1
21	BATTERY CONTACT PLATE	BATTERY CONTACT PLATE (+)	347-021813-02	1
22	BATTERY CONTACT PLATE	BATTERY CONTACT PLATE(-)	348-021813-02	1
23	CD PCB	CD PCB (138.7 x 56.8 x 1.2)MM DOUBLE SIDE (REV.1 SOLDER PLATING)	190-318003-421	1
24	DUMPER	DUMPER (SONY D202)	425-021800-00	3
25	CD MECHNISM	CD CMEHNISM 'DA23' (SANYO)	910-DA2301-05	1
26	CD DOOR EJECT SPRING		401-031800-00	1
27	DISC COVER PIN		415-021800-00	2
28	BATTERY DOOR		206-031800-000	1
29	BLACK RIBBON	12MM BLACK RIBBON L=100MM 0.0038RL	614-121000-01	

EXPLODED VIEW PARTS LIST

ITEM	PART NAME	DESCRIPTION	PART NUMBER	QTY
30	BATTERY CONTACT PLATE	BATTERY CONTACT PLATE (+ -)	346-021813-02	1
31	BOTTON CAB.		201-031800-000	1
32	SELF TAPPING SCREW	SELF TAPPING SCREW $\phi 2 \times 8$ PA	371-200810-002	5
33	RUBBER FOOT	RUBBER FOOT $\phi 8 \times 0.8$ MM (3M)	428-021800-00	4
34	CAUTAION LABEL	CAUTAION LABEL (50 x 30)	549-021800-0C5	1
35		ADHESIVE TAPE 12MM "NITTO 155"	629-121000-01	1
36	SIDE BTTON		245-031810-000	1
37	LABLE	WHITE LABEL (DISPLAY HOLDER) (36 x 8.5)mm	563-031800-000	

10. ELECTRICAL PARTS LIST

REF NO.	(MAIN BOARD)	PARTS NO.	DESCRIPTION
POWER TRANSFORMER			
		199-222700-00C	EI41 AC/DC ADAPTOR AC120V/60Hz UL 'T13-4153-11C' W/CRAIG BRAND
COIL			
L101, L201, L202, L602, L701.		104-100455-10	CHOKE COIL 10uH (4 x 5.5 MM)
L501		104-101455-11	FERRITE CHOKE COIL 100uH (4 x 5.5 MM)
L603		104-330680-10	CHOKE COIL 33 uH (6 x 8MM)
L601		104-950910-17	CHOKE COIL TYPE CN3-810 95uH (8 x 11.5MM)
ROTAY VOLUME			
VR301		111-1111426-31	ROTARY VOLUME CONTROL RK10J12T009TA'
TRIMMER POTENTIOMETER			
VR101		112-503143-02	TRIMMER POTENTIOMETER 50K (HORIZONTAL) FRC065C-503
SMT RESISTOR			
R106		113-000201-323	SMT RESISTOR 0603 0 OHM 1/16W +/-5%
R320		113-100201-322	SMT RESISTOR 0805 10 OHM 1/16W +/-5%
R609		113-100201-323	SMT RESISTOR 0603 10 OHM 1/16W +/-5%
R212, R601		113-101201-323	SMT RESISTOR 0603 100 OHM 1/16W +/-5%
R104, R217, R243, R309, R310, R315, R316, R608, R631		113-102201-323	SMT RESISTOR 0603 1K 1/16W +/-5%
R107, R109, R117, R118, R119, R218, R222, R223, R240, R241, R501, R506, R513, R702, R703, R704		113-103201-323	SMT RESISTOR 0603 10K 1/16W +/-5%
R311, R312, R323, R508, R509, R510, R512, R514, R603, R613		113-104201-323	SMT RESISTOR 0603 100K 1/16W +/-5%
R203		113-105201-323	SMT RESISTOR 0603 1 M 1/16W +/-5%

REF NO.	(MAIN BOARD)	PARTS NO.	DESCRIPTION	
R317, R318, R612		113-123201-323	SMT RESISTOR 0603 12K 1/16W	+/-5%
R202, R615		113-153201-323	SMT RESISTOR 0603 15K 1/16W	+/-5%
R114, R142, R201		113-154201-323	SMT RESISTOR 0603 150K 1/16W	+/-5%
R502		113-182201-323	SMT RESISTOR 0603 1.8K 1/16W	+/-5%
R611		113-183201-323	SMT RESISTOR 0603 18K 1/16W	+/-5%
R101		113-221201-323	SMT RESISTOR 0603 220 OHM 1/16W	+/-5%
R602		113-223201-323	SMT RESISTOR 0603 22K 1/16W	+/-5%
R129, R130, R219		113-224201-323	SMT RESISTOR 0603 220K 1/16W	+/-5%
R215		113-333201-323	SMT RESISTOR 0603 33K 1/16W	+/-5%
R132		113-393201-323	SMT RESISTOR 0603 39K 1/16W	+/-5%
R244		113-394201-323	SMT RESISTOR 0603 390K 1/16W	+/-5%
R616		113-470201-323	SMT RESISTOR 0603 47 OHM 1/16W	+/-5%
R128,		113-472201-323	SMT RESISTOR 0603 4.7K 1/16W	+/-5%
R124, R125, R126, R127, R220, R305		113-473201-323	SMT RESISTOR 0603 47K 1/16W	+/-5%
R701		113-474201-323	SMT RESISTOR 0603 470K 1/16W	+/-5%
R105, R112		113-479201-323	SMT RESISTOR 0603 4.7 OHM 1/16W	+/-5%
R610		113-562201-323	SMT RESISTOR 0603 5.6K 1/16W	+/-5%
R617		113-622201-323	SMT RESISTOR 0603 6.2K 1/16W	+/-5%
R221, R313, R314		113-682201-323	SMT RESISTOR 0603 6.8K 1/16W	+/-5%
R614		113-684201-323	SMT RESISTOR 0603 680K 1/16W	+/-5%

(MAIN BOARD)		
REF NO.	PARTS NO.	DESCRIPTION
R322	113-753201-323	SMT RESISTOR 0603 75K 1/16W +/-5%
R108, R111, R231, R232	113-822201-323	SMT RESISTOR 0603 8.2K 1/16W +/-5%
RESISTOR		
R604, R605	113-121202-21	RESISTOR 1/8 W +/- 5% 120 OHM
CERAMICRESONATOR		
X201	121-401692-20	CERAMIC RESONATOR 16.934 MHz ±0.5% "TYPE NO: CSA16.93NXZ040 "
SMT CERAMIC CAP		
C604, C612	123-102254-000	SMT CERAMIC CAP 0603 1000 pF 25V +80-20%
C107, C109, C227	123-103254-000	SMT CERAMIC CAP 0603 0.01 uH 25V +80-20%
C120, C122, C134, C201, C205, C215, C217, C220, C228, C229, C232, C302, C320, C501, C504, C506, C509, C601, C609, C610, C701, C702	123-104254-000	SMT CERAMIC CAP 0603 0.1 uH 25V +80-20%
C310, C327, C330	123-105255-000	SMT CERAMIC CAP 0805 1 uH 25V +80-20%
C135, C203, C204, C233	123-150224-000	SMT CERAMIC CAP 0603 15 pF 25V +/-5%
C138	123-209284-000	SMT CERAMIC CAP 0603 2 pF 25V +/-0.25P
C114, C125, C313, C314	123-222254-000	SMT CERAMIC CAP 0603 2200 pF 25V +80-20%
C231	123-270224-000	SMT CERAMIC CAP 0603 27 pF 25V +/-5%
C226	123-330224-000	SMT CERAMIC CAP 0603 33 pF 25V +/-5%
C303, C304	123-331234-000	SMT CERAMIC CAP 0603 330 pF 25V +/-10%
C117, C124, C605	123-332254-000	SMT CERAMIC CAP 0603 3300 pF 25V +80-20%
C616	123-470224-000	SMT CERAMIC CAP 0603 47 pF 25V +/-5%
C611	123-471234-000	SMT CERAMIC CAP 0603 470 pF 25V +/-10%

REF NO.	PARTS NO.	DESCRIPTION
(MAIN BOARD)		
C216	123-473254-000	SMT CERAMIC CAP 0603 0.047 uF 25V +80-20%
C105	123-509224-000	SMT CERAMIC CAP 0603 5 pF 25V +/-5%
ELECT CAP		
C139	127-104052-10	ELECT CAP 0.1uF/50V ±20% 4 x 7 MM (MINI)
C123, C137, C606	127-105072-10	ELECT CAP 1uF/50V ±20% 4 x 7 MM (MINI)
C218	127-106042-10	ELECT CAP 10uF/16V ±20% 4 x 7 MM (MINI)
C108, C110, C115, C214, C230, C319, C322, C703	127-107032-10	ELECT CAP 100uF/10V ±20% 5 x 7 MM (MINI)
C602	127-107032-40	ELECT CAP 100uF/10V ±20% (SUPER MINI) 6.3 x 5 MM
C221	127-224072-10	ELECT CAP 0.22uF/50V ±20% 4 x 7 MM (MINI)
C222	127-225072-10	ELECT CAP 2.2uF/50V ±20% 4 x 7 MM (MINI)
C331, C552	127-226042-10	ELECT CAP 22uF/16V ±20% 4 x 7 MM (MINI)
C334, C335, C603	127-227012-40	ELECT CAP 220uF/4V ±20% (SUPER MINI) 6.3 x 5 MM
C608	127-227032-10	ELECT CAP 220uF/10V ±20% (MINI SIZE)
C112, C332	127-335072-10	ELECT CAP 3.3uF/50V ±20% 4 x 7 MM (MINI)
C613	127-336042-10	ELECT CAP 33uF/16V ±20% 4 x 7 MM (MINI)
C704	127-474072-10	ELECT CAP 0.47uF/50V ±20% 4 x 7 MM (MINI)
C136, C301, C305, C306, C315, C316, C508	127-475072-10	ELECT CAP 4.7uF/50V ±20% 4 x 7 MM (MINI)
C219	127-476032-10	ELECT CAP 47uF/10V ±20% 4 x 7 MM (MINI)
IC301	130-035791-00	I.C. I.C. BA3579FS

REF NO.	(MAIN BOARD)	PARTS NO.	DESCRIPTION
IC601		130-059011-00	I.C. BA5901K
IC101		130-063871-00	I.C. BA6387K
IC701		130-093461-00	I.C. BU9346K
IC201		130-095261-00	I.C. BU9526KS
IC501		130-345811-001	I.C. BU34581-5G
IC702		130-S40045-002	4M x 4 DRAM "S4004SB1-0" (DOKIN)
		ALT. 130-511745-00	I.C. HY5117404CJ-60
		ALT. 130-S40045-000	4M x 4 AUDIO DRAM "S4004SE1-0" (DOKIN)
		ALT. 130-S40045-001	4M x 4 AUDIO DRAM "S4004SE1-GD" (DOKIN)
		ALT. 130-S40045-003	4M x 4 AUDIO DRAM "S4004LB1-0" (DOKIN)
SMT TRANSISTOR			
Q101		131-211774-002	SMT TRANSISTOR 2SA1774
Q103, Q305		131-440144-682	SMT DIGITAL TRANSISTOR
Q104, Q301, Q303, Q304, Q701		131-450114-682	DTA144TE
			SMT DIGITAL TRANSISTOR
			DTC114TE
TRANSISTOR			
Q601		131-211585-661	TRANSISTOR 2SA1585SR
Q602, Q603		131-234115-661	TRANSISTOR 2SC4115SR
SMT DIODE			
D601, D607		132-016110-655	SMT SCHOTTKY BARRIER DIODE
D301, D501		132-AN2220-645	RB161L-40
D701		132-AP2220-645	SMT SWITCHING DIODE ARRAYS
			DAN222
			SMT SWITCHING DIODE ARRAYS
			DAP222

(MAIN BOARD)			
REF NO.	PARTS NO.	SWITCH	DESCRIPTION
SW301	141-022D02-04	SLIDE SWITCH SKA-22D10-G4-NA	
SW601	141-023F72-401	SLIDE SWITCH 2P3T "SK-23D07-SG4" (WEALTH)	
SW509	144-011542-23	PUSH SWITCH 1P1T 'MPU10184MLB0'	
SW507	145-114504-01	TACT SWITCH "EVQ-PJB-04K"	
SUPPLY BY CUSTOMER	143-031800-00	ADAPTOR CAR CIGARETTE PLUG ADAPTOR "DD-919-08" (NEWTECH)	
SUPPLY BY CUSTOMER	143-031810-00	CASSETTE ADAPTOR 'AS-470" (NEWTECH)	
CN603	160-906150-41	CONNECTOR 6 PINS HEADER 1.5MM PITCH "1"	
CN101	160-91610A-42	"W150V06T00" (GOLD FRIEND) HEADER 16 PINS CONNECTOR (L TYPE) 'T02-1000-8160' (TPG)	
CN501	160-92205D-421	FCC CONNECTOR 22 PIN "I" TYPE P=0.5MM (NZ03-022-1-2)	
J302	161-143524-01	JACK φ 3.5MM STEREO HEADPHONE JACK "TC38-071"	
J301	161-153524-01	STEREO HEADPHONE JACK φ 3.5MM (GREEN) "TC38-071-02" (JY-3530G)	
J601	161-283513-01	DC POWER JACK "TC18-038-02"	
SUPPLY BY CUSTOMER	169-011935-200	HEADPHONE PLASTIC BAND HEADPHONE "HP119-1" (NEWTECH)	
D610	171-053712-20	LED LED RED 3MM "3R2PD"	

REF NO.	(MAIN BOARD) PARTS NO.	DESCRIPTION
		JUMPER WIRE
	181-126160-10	JUMPER WIRE AW/G26 160MM BLACK UL TYPE "1007"
	181-126160-12	JUMPER WIRE AW/G26 160MM RED UL TYPE "1007"
		PCB
	190-318003-421	CD PCB (138.7 x 56.8 x 1.2)MM DOUBLE SIDE (REV.1 SOLDER PLATING)
	190-318050-621	ASP PCB (10 x 5.5 x 1.2)MM (REV.1 SOLDER PLATING)
	190-318051-460	LED PCB (9 x 8 x 1.2)MM
		CD MECHANISM
	910DA2301-05	CD MECHANISM 'DA23" (SANYO)

REF NO.	(CD KEY BOARD) PARTS NO.	DESCRIPTION
		RESISTOR
R511	113-103201-323	SMT RESISTOR 0603 10K 1/16W +/-5%
R503	113-272201-323	SMT RESISTOR 0603 2.7K 1/16W +/-5%
R504	113-332201-323	SMT RESISTOR 0603 3.3K 1/16W +/-5%
R505	113-472201-323	SMT RESISTOR 0603 4.7K 1/16W +/-5%
		SWITCH
SW501, SW502, SW503, SW504, SW505, SW506	145-111036-01	TACT SWITCH "TD-01EA " (160GF)
		LCD
LCD501	134-533392-07	LCD DISPLAY TTD3392DPRDCN (TRULY)
		CONNECTOR
CN502	160-92205A-421	FFC CONNECTOR 22 PIN "L" TYPE P=0.5MM (NZ01-022-1-2)
		JUMPER WIRE
MAIN BORAD CN501 TO CONTROL BORAD CN502	197-B22070-09	FCC CABLE 22 PINS L=70MM 5+60+5MM PITCH=0.5MM
		PCB
	190-318050-460	DISPLAY PCB (54.4 x 71 x 0.6)MM