

Service Manual

MODEL:TC-656



DAEWOO
DAEWOO ELECTRONICS EUROPE GmbH



DAT H.K. LIMITED

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Product Features and Specifications

- iPod, iPod mini and iPod nano Player/ Re-charger
- USB docking for playback of MP3 player
- Audio line-in for connecting CD player or other digital audio player
- AM(MW)/FM stereo receiver with 10AM + 10FM presets, digital tuning and auto-search function
- Electronic volume control
- Built-in 2 high fidelity speakers
- Multi-function back-lit LCD display
- Clock and Year/Month/Date function
- Wake up to Alarm(Buzzer), Radio or iPod with Snooze function sleep to Music Timer
- External FM Antenna connector for better reception
- Stereo headphone jack connection for private listening

Power Supply

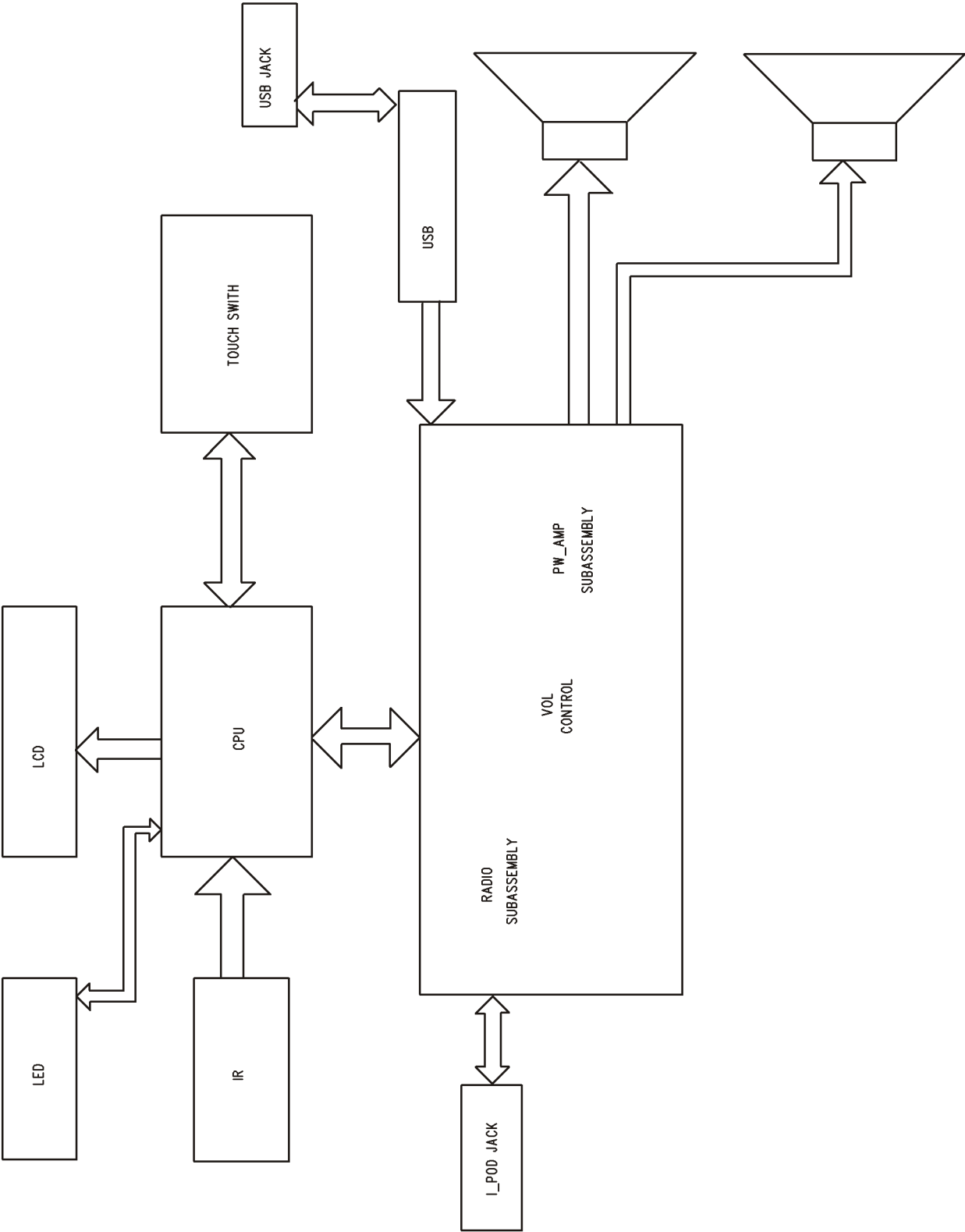
- Power Adaptor (input) AC 120V ~ 60Hz (for USA)
 AC 230V ~ 50Hz (for EU)
 AC 100V ~ 50/60Hz (for Japan)
 AC 240 ~ 50Hz (for Australia)
 (output) DC 10V / 1400mA
- Battery back-up for clock: DC1.5V “AAA” (UM-4) Battery x 2 (not included)

Frequency Range

USA's Radio Broadcast System	AM520-1710kHz, 10kHz tuning step FM87.5-108MHz, 0.1MHz tuning step
EU's Radio Broadcast System	AM522-1620kHz, 9kHz tuning step FM87.5-108MHz, 0.05MHz tuning step
Japan's Radio Broadcast System	AM522-1629kHz, 9kHz tuning step FM76.0-108MHz, 0.1MHz tuning step

Australia's Radio Broadcast system same as EU's system

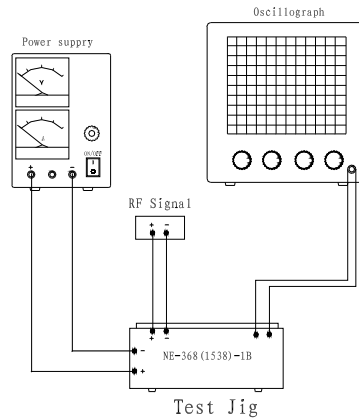
Block Diagram



Alignment Procedure

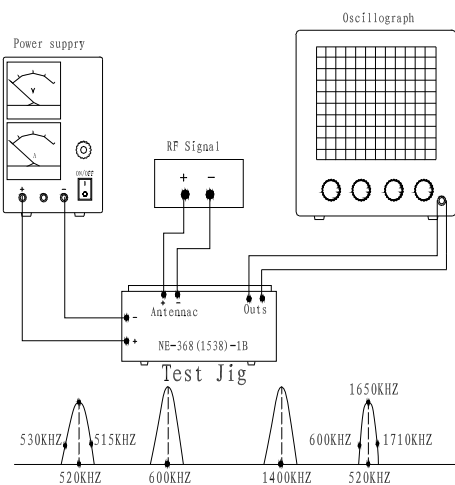
Adjust IF

1. Put the main board into testing station. Turn on power for the testing station, then press of the power key of main board to operate.
2. Press function switch to change the band in FM freq 87.5 MHz, then to observe the wave form can display in OSC.
3. Press function switch to change the Band in AM mode, then to adjust L8 to reach maximum waveform (peak volume) without distorted.
4. After testing, turn off power of the main board, and then turn off testing station. Take out the main board.



Adjust KC

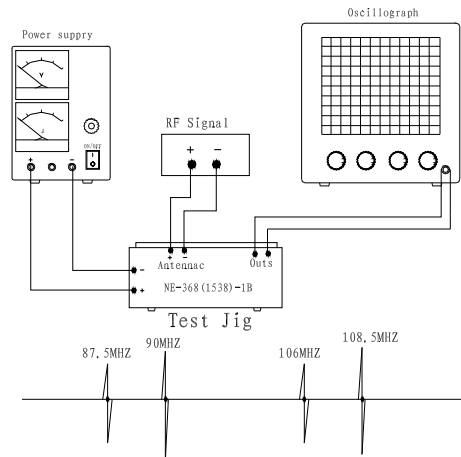
1. Put the main board into testing station. Turn on the testing station's power.
2. Press power key to turn on the main board. Press function key to change AM mode, then press the "CH+" to adjust the freq at 1710 KHz, Using a screw driver adjusts L6 to have VT equal to appro 8.4V-8.6V. Press the "CH-" Key to adjust the freq at 520 KHz, then the voltage, then the voltage of VT will be about 1.1V-3V.
3. Press the "CH+" key to display 600 KHz on screen. Move an AM antenna to get maximum wave, then press again the "CH-" to have 1400 KHz, using a screw driver adjust the VC 4 to get maximum wave that is displayed in assigned area. Using a metal stick closed to the antenna (DON'T TOUCH THE ANTENNA) to influence the freq. If the wave goes up, replay wand adjust step "3" again. If the wave goes down, the setup is correct.
4. Switching to IC2614 and observe the voltage level in assigned range.



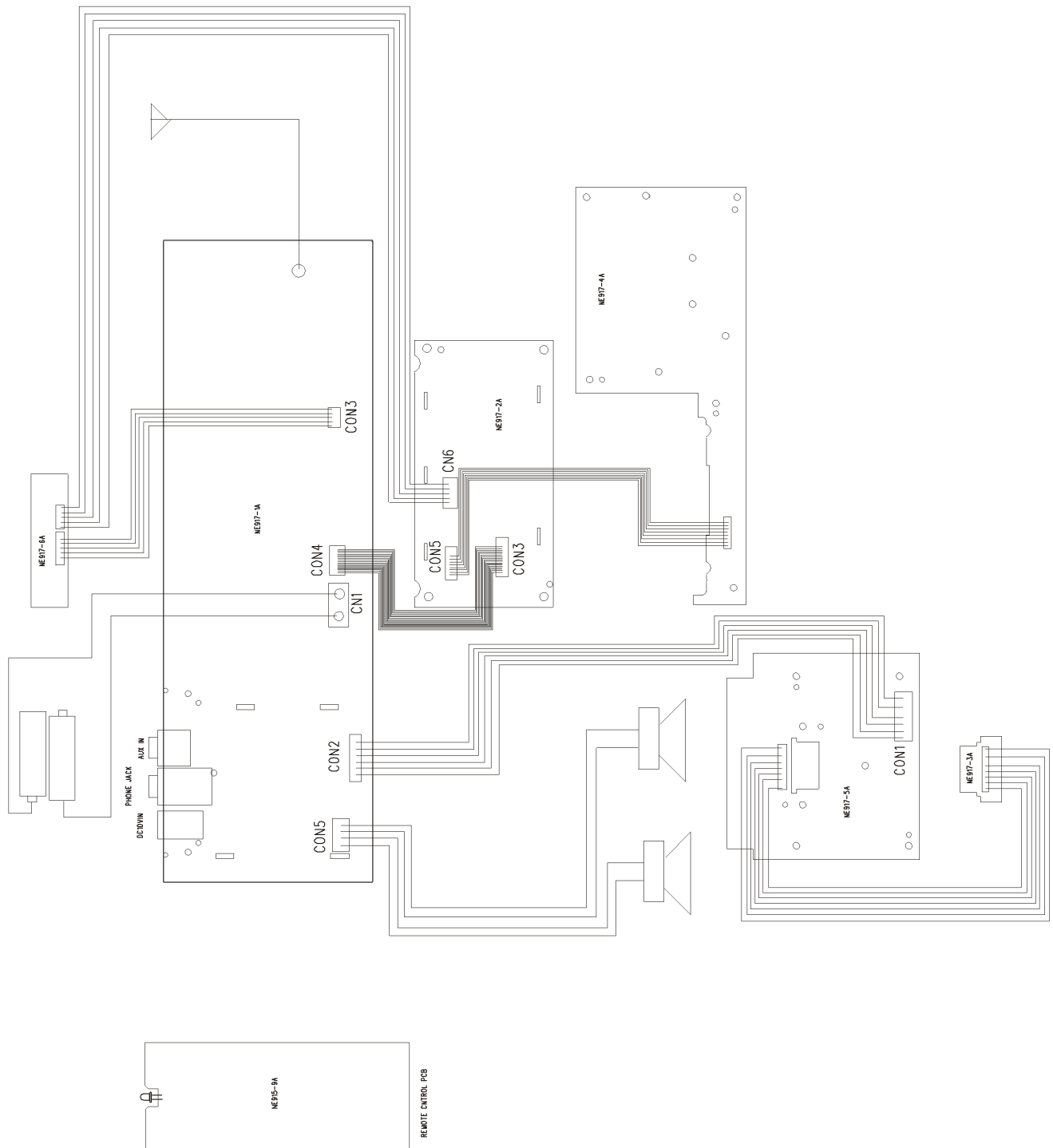
Alignment Procedure

Adjust MC

1. Put the main board into testing station, turn on the testing station's power then turn on main board.
2. Press the function switch to change the Radio band to FM mode, Press the "CH-" adjust the freq to get 108Mhz and use screw driver adjust L 7 in order to the VT voltage is change at 7.9V - 8.1V . Then press the "CH+" key to adjust the freq at 87.5 MHz, then the voltage of VT will be about 1.2V 3.5V.
3. Press "CH+" to display 106Mhz, use a screw driver adjust VC 3 to make the wave maximum, and then press "CH-" to get 90 MHz. Again, use a screw driver adjusts L9 to make the wave maximum. Repeat this producer unit the 106MHz and 90 MHz to have maximum value at assigned area.
4. After testing, turn off power of the main board, and turn off testing station. Take out main board.

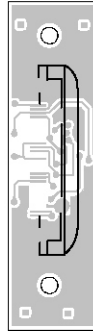


Wiring Diagram



PCB Layouts

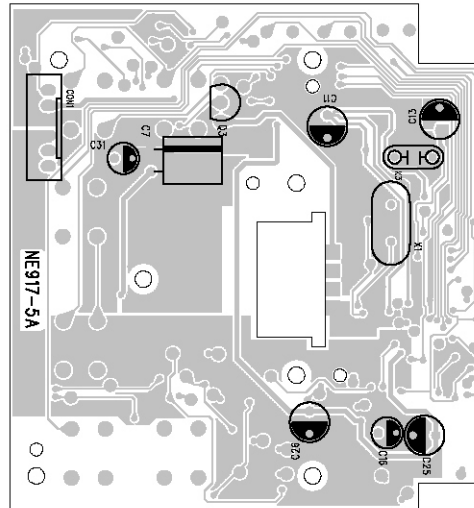
iPod JACK PCB LAYOUT (Top)



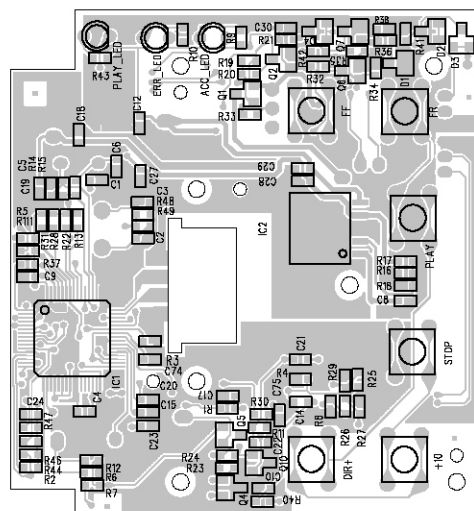
iPod JACK PCB LAYOUT (Bottom)



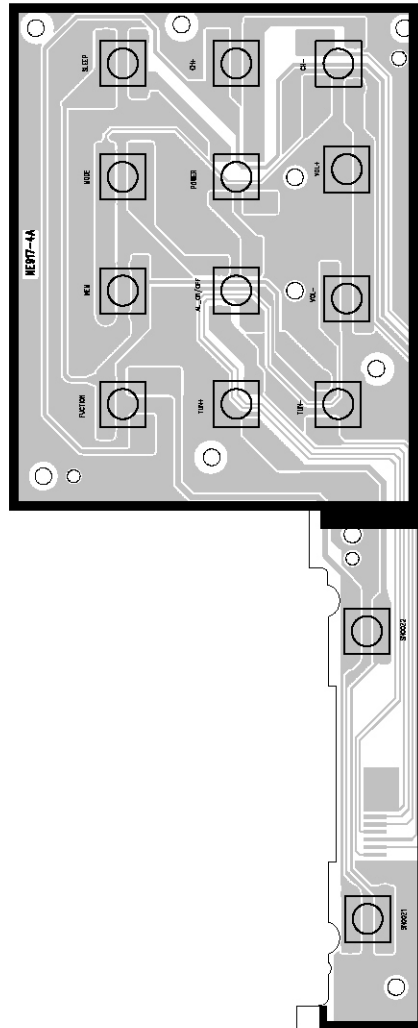
USB BOARD PCB (Top)



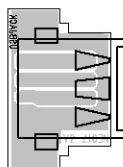
USB BOARD PCB (Bottom)



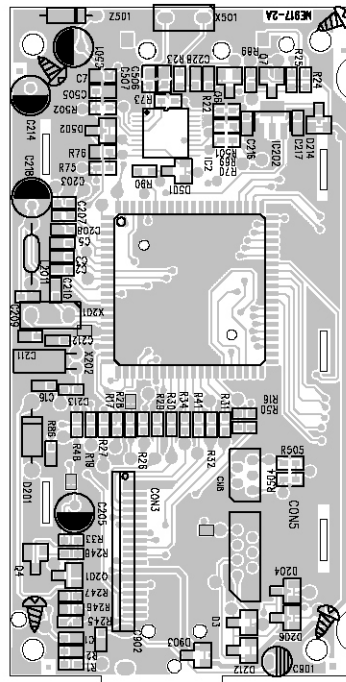
Key PCB



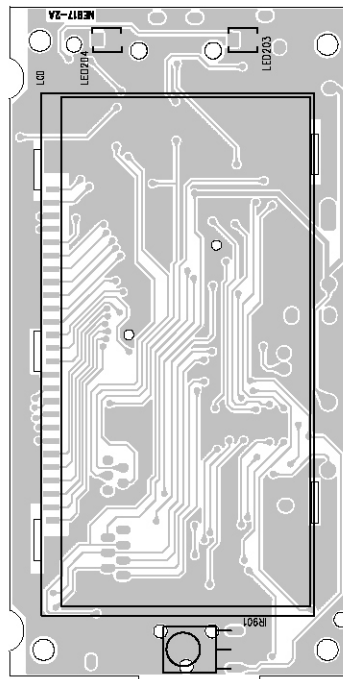
USB PCB



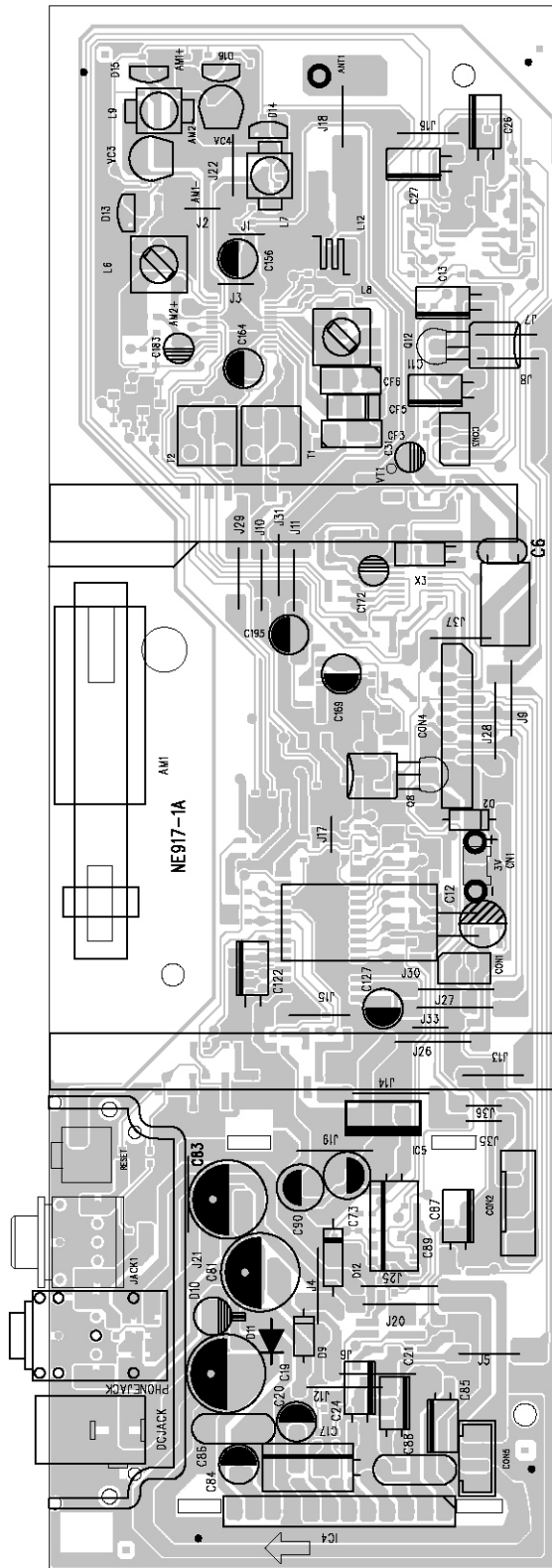
CLOCK PCB LAYOUT (TOP)



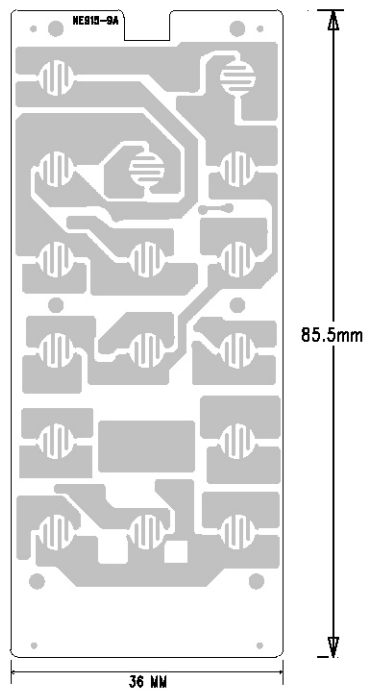
CLOCK PCB LAYOUT (BOTTOM)



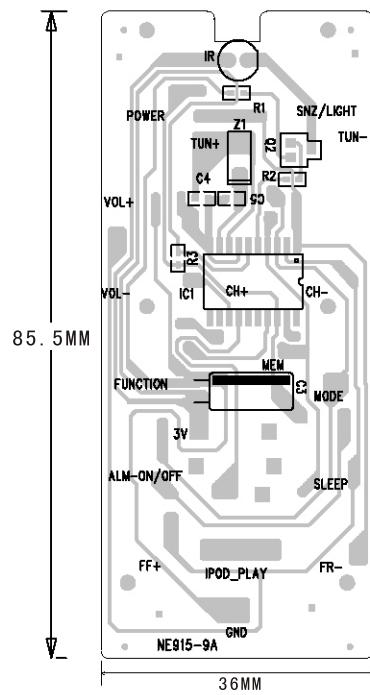
RADIO PCB LAYOUT (TOP)



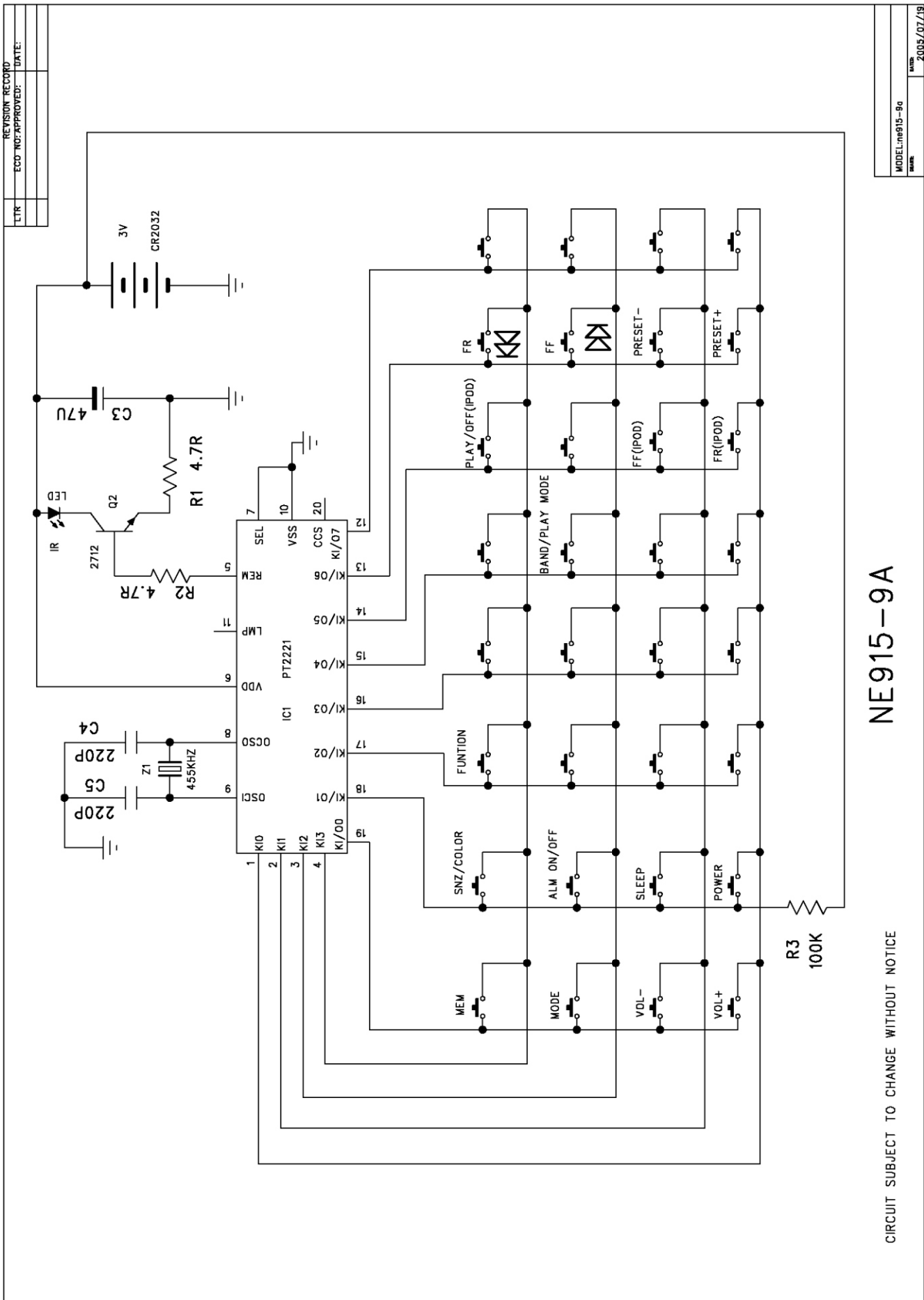
REMOTE PCB LAYOUT (TOP)



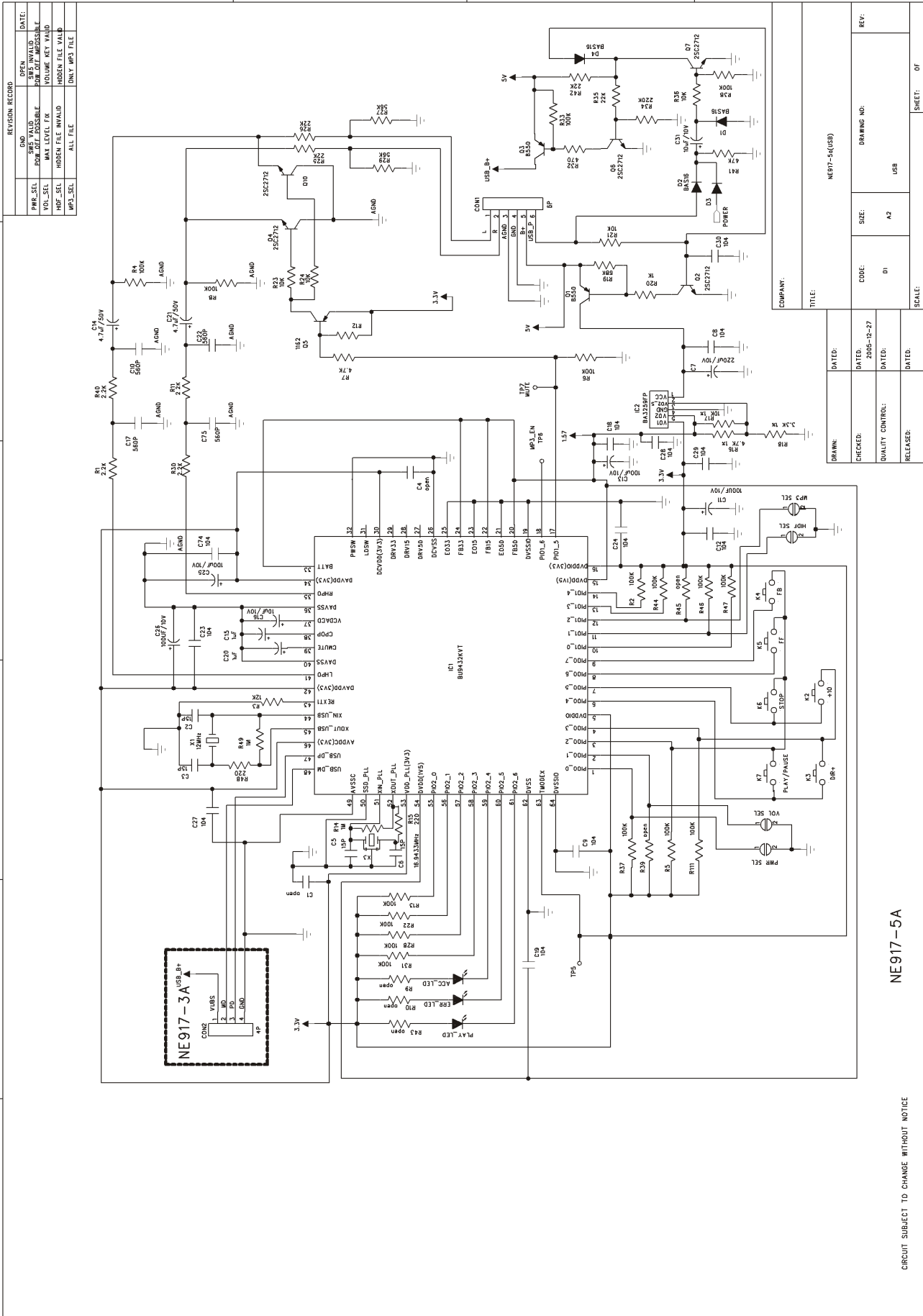
REMOTE PCB LAYOUT (BOTTOM)



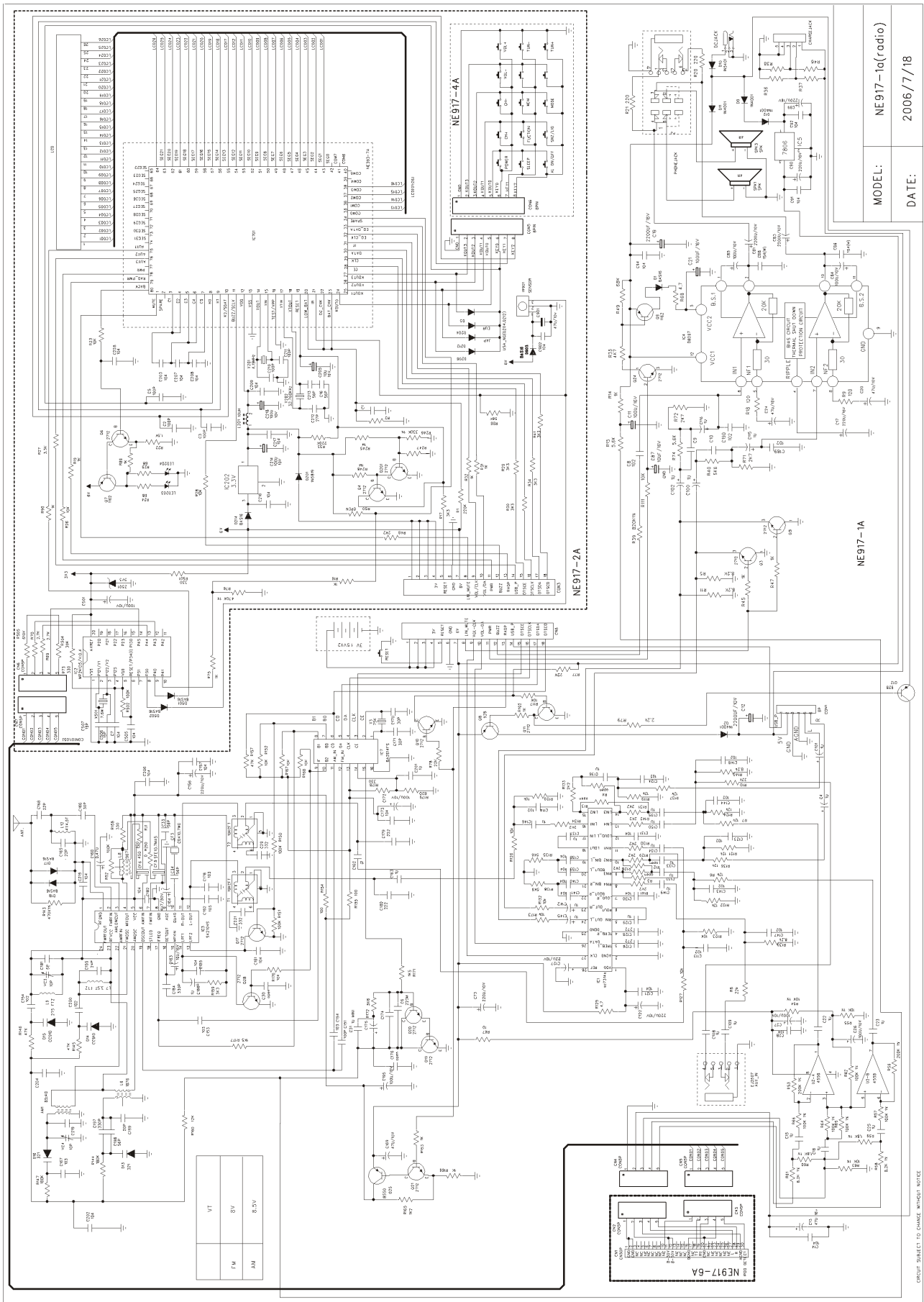
Remote Circuit Diagram



USB Control Diagram



Schematic Diagram

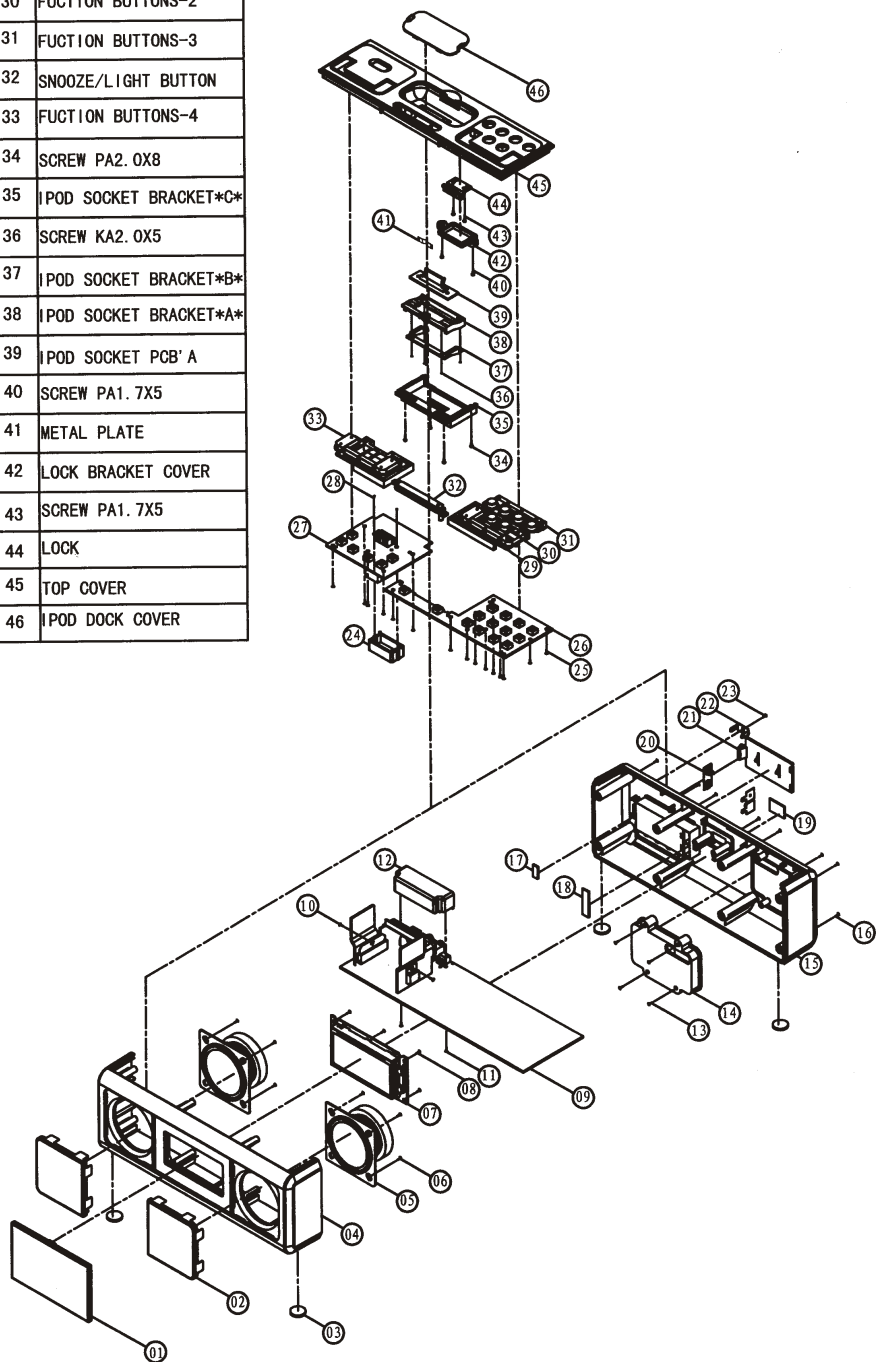


MODEL: NE917-1A (radio)
DATE: 2006/7/18

Exploded View

Model: NE917(Standard)

NO.	DESCRIPTION	NO.	DESCRIPTION
01	LCD-LENS	24	USB COVER
02	SPEAKER GRILL	25	SCREW PA1. 7X7
03	RUBBER FOOT	26	KEYPCB-1' A
04	FRONT-CAB	27	KEYPCB-2' A
05	SPEAKER	28	SCREW PA1. 7X7
06	SCREW PWA3. 0X6	29	FUCTION BUTTONS-1
07	CLOCK PCB' A	30	FUCTION BUTTONS-2
08	SCREW PA2. 6X8	31	FUCTION BUTTONS-3
09	RADIO PCB' A	32	SNOOZE/LIGHT BUTTON
10	SCREW PA2. 6X6	33	FUCTION BUTTONS-4
11	SCREW PA1. 7X7	34	SCREW PA2. 0X8
12	JACK COVER	35	IPOD SOCKET BRACKET*C*
13	SCREW PA2. 6X8	36	SCREW KA2. 0X5
14	SOUND-TUBE COVER	37	IPOD SOCKET BRACKET*B*
15	BACK-CAB	38	IPOD SOCKET BRACKET*A*
16	SCREW PA2. 6X12	39	IPOD SOCKET PCB' A
17	PVC PLATE 1	40	SCREW PA1. 7X5
18	PVC PLATE 2	41	METAL PLATE
19	PVC PLATE 3	42	LOCK BRACKET COVER
20	BATTERY PLATE	43	SCREW PA1. 7X5
21	BATTERY DOOR	44	LOCK
22	FM ANTENNA PLATE	45	TOP COVER
23	SCREW BM2. 6X6	46	IPOD DOCK COVER



Voltage Chart

MODEL	NE917 Standard(USB)								
	IC NUMBER:	IC 1	IC 3	IC 7	U 2	IC 4	IC 202	IC 1	IC 2
	IC MODEL:	SC73145	SA21045	2614FS	UTE4558E	D8207	3.3V	BU9432	BA3259
	VOLTAGE:	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)
	NO#IC								
	1	6.01	0.00	1.65	3.02	7.33	0.00	3.22	4.99
	2	000	0.82	1.05	305	4.08	5.50	0.00	0.79
	3	3.00	0.23	0.02	3.01	8.37	3.35	3.22	0.00
	4	3.00	4.20	3.35	0.00	8.23		3.22	1.55
	5	3.00	4.43	0.02	3.01	0.62		3.25	3.25
	6	3.01	3.89	3.99	3.05	0.02		3.25	
	7	3.01	4.43	0.07	3.02	0.02		3.25	
	8	3.00	0.00	3.25	6.04	0.62		3.25	
	9	3.00	0.48	0.01		0.00		0.00	
	10	3.00	3.63	0.07		4.23		3.22	
	11	3.00	1.05	0.01		8.50		3.22	
	12	3.01	1.07	2.32				0.00	
	13	3.00	3.77	4.80				3.22	
	14	3.00	3.75	3.41				3.22	
	15	3.00	0.72	1.09				1.55	
	16	3.00	1.94	0.00				3.25	
	17	3.00	3.02					3.25	
	18	3.00	0.03					0.00	
	19	3.00	4.29					0.00	
	20	3.01	4.43					1.55	
	21	3.00	4.56					0.00	
	22	3.01	4.44					1.55	
	23	3.01	4.44					0.00	
	24	3.00	4.44					1.55	
	25	0.00						0.00	
	26	0.02						0.00	
	27	0.02						0.00	
	28	3.01						0.00	
	29							0.00	
	30							3.25	
	31							1.55	
	32							3.25	
	33							1.62	
	34							0.00	
	35							1.62	
	36							0.00	
	37							1.61	
	38							1.60	
	39							1.86	
	40							0.00	
	41							1.60	
	42							3.25	
	43							1.22	
	44							1.53	
	45							1.66	
	46							3.25	

Voltage Chart

MODEL	NE917 Standard(USB)								
	IC NUMBER:	IC 1	IC 3	IC 7	U 2	IC 4	IC 202	IC 1	IC 2
	IC MODEL:	SC73145	SA21045	2614FS	UTE4558E	D8207	3.3V	BU9432	BA3259
	VOLTAGE:	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)
47								2.89	
48								0.07	
49								0.00	
50								0.00	
51								1.57	
52								1.54	
53								3.25	
54								1.55	
55								0.00	
56								0.00	
57								0.00	
58								0.00	
59								2.86	
60								3.25	
61								0.00	
62								0.00	
63								3.25	
64								0.00	

Part list

Code	Description	Quantity Remark
FANE917-CABINET(1)	FANE917 CABINET(1)	1
- 580100917015	FRONT CAB (ROHS CERTIFICATION)	1
- 580102917015	TOP CAB (ROHS CERTIFICATION)	1
- 580115917015	BOTTOM CAB (ROHS CERTIFICATION)	1
- 580140917015	BATTERY DOOR (ROHS CERTIFICATION)	1
- 580154933015	LOCK (ROHS CERTIFICATION)	1
- 580172917015	VOLUME KNOB (ROHS CERTIFICATION)	1
- 580175917A15	COVER *A* (ROHS CERTIFICATION)	1
- 580175917B15	USB BOX *B* (ROHS CERTIFICATION)	1
- 580175917C15	IPOD BUCKLY COVER *C* (ROHS CERTIFICATION)	1
- 580176917015	DC JACK COVER (ROHS CERTIFICATION)	1
- 580195917015	POWER KNOB (ROHS CERTIFICATION)	1
- 5802439170D0	SNOOZE BUTTON (ROHS CERTIFICATION)	1
- 580254917A15	FUNCTION KNOB (ROHS CERTIFICATION)	1
- 580254917B15	VOL KNOB (ROHS CERTIFICATION)	1
- 5802699170D0	LCD LENS (ROHS CERTIFICATION)	1
- 580272917A15	IPOD PCB BRACKET *A* (ROHS CERTIFICATION)	1
- 580272917B15	IPOD PCB BARRACKER *B* (ROHS CERTIFICATION)	1
- 580272917C15	IPOD PCB BARRACKER *C* (ROHS CERTIFICATION)	1
- 580410933C15	IPOD DOCK COVER (ROHS CERTIFICATION)	1
- 580411933A1A	IPOD ADAPTOR 10/15/20GB (ROHS CERTIFICATION)	1
- 580411933B15	IPOD ADAPTOR 30/40GB (ROHS CERTIFICATION)	1
- 580411933C1A	IPOD ADAPTOR 60GB (ROHS CERTIFICATION)	1
- 580411933M15	IPOD ADAPTOR MINI (ROHS CERTIFICATION)	1
- 580411933N15	IPOD ADAPTOR NANO (ROHS CERTIFICATION)	1
FANE917IR-CABINET	FANE917IR CABINET	1
- 580117915I1	REMOTE BOTTOM CAB (ROHS CERTIFICATION)	1
- 580140915I1	REMOTE DOOR (ROHS CERTIFICATION)	1
FANE917-PACKING	FANE917 PACKING	1
- 3201020917D0	AU POWER ADAPTOR 240V/50HZ (ROHS CERTIFICATION)	1
- 380190060001	FM ANTENNA (ROHS CERTIFICATION)	1
- 4801100917D1	BACKPLATE (ROHS CERTIFICATION)	1 STICK ON UNIT BACK
- 5201140917D0	SERIAL NO. LABEL (S/N:NT6900000	1 TO NT69003996)STICK ON UNIT BACK
- 500115038800	NON-TRANSPARENT ENVIRONMENTAL BAG (ROHS CERTIFICATION)	1 PACK IDOCK
- 500115056401	NON-TRANSPARENT ENVIRONMENTAL BAG 5 x 12-1/2" (ROHS CERTIFICATION)	1 PACK ADAPTOR
- 500115060101	POLYBAG (PE) (035) 3 x 4-1/2" (ROHS CERTIFICATION)	1 PACK ANTENNA AND 3.5MM AUX CABLE
- 500115711600	POLYBAG (PE) (PO) (035) 7.5 x 11" (ROHS CERTIFICATION)	1 PACK IB
- 500117718200	NON-TRANSPARENT ENVIRONMENTAL BAG (HD PE) 13 x 7.5" (ROHS CERTIFICATION)	1 PACK UNIT
- 520105000008	Q.C. PASSED LABEL(06) ALL MODEL (ROHS CERTIFICATION)	1 STICK ON INSIDE OF BATTERY COMPARTMENT
- 5204010917D0	I/B BOOKLET (ROHS CERTIFICATION)	1
- 5401150917D0	GIFT BOX (ROHS CERTIFICATION)	1
- 5401150917D1	INNER A (ROHS CERTIFICATION)	2
- 5401150917D2	INNER B (ROHS CERTIFICATION)	1
- 5401150917D3	INNER C (ROHS CERTIFICATION)	1
- 560103091700	CARTON (3 PLY) **ST.** 10 PCS (ROHS CERTIFICATION)	0
FANE917IR-PACKING	FANE917IR PACKING	1
- 440130058501	Battery Sanp PVC (ROHS CERTIFICATION)	1
- 480110368I01	BACK PLATE FOR *REMOTE* (ROHS CERTIFICATION)	1
- 5001450368I0	BUBBLE BAG.(MARK 04/PE-LD)2-1/2" x 6" (ROHS CERTIFICATION)	1 PACK REMOTE
FANE917-CASING(1)	FANE917 CASING(1)	1
- 380177091700	3.5mm AUX CABLE (ROHS CERTIFICATION)	1
- 4200261201PA	SCREW PA 2.6 x 12 **Zinc Black** (ROHS CERTIFICATION)	8
- 440110091701	SPEAKER NET (ROHS CERTIFICATION)	2
- 480105091702	PVC (ROHS CERTIFICATION)	1 seal air
FANE917IR-CASING	FANE917IR CASING	1
- 4801059171D0	REMOTE PVC (ROHS CERTIFICATION)	1
FANE917-CABINET(0)	FANE917 CABINET(0)	1

Part list

Code	Description	Quantity Remark
- 580262917070	REFLECTION LENS (ROHS CERTIFICATION)	1
- 580303917070	LED BRACKET (ROHS CERTIFICATION)	1
- 580361917070	IR BRACKET (ROHS CERTIFICATION)	1
FANE917-CASING(0)	FANE917 CASING(0)	1
- 280210091700	Speaker 2" 4 Ω 5W (ROHS CERTIFICATION)	2
- 380153032006	Wire 320mm (Blue) (U/L 1007#26) (ROHS CERTIFICATION)	1 FOR FM INTERNAL ANTENNA
- 380154001400	Wire 140mm (Black) (U/L 1007#28) (3x3) (ROHS CERTIFICATION)	1 3V-
- 380154001405	Wire 140mm (Red) (U/L 1007#28) (3x3) (ROHS CERTIFICATION)	1 3V+
- 380304040300	4P CABLE (U/L 1007#26) (ROHS CERTIFICATION)	1 SOLDERING TO SP
- 4200170532PA	SCREW PA 1.7 x 5 **NIC** "3.0mm" (ROHS CERTIFICATION)	2 FOR FIXING LOCK X 2
- 42001707RNPA	SCREW NPAGN 1.7 x 7 **NIC** (ROHS CERTIFICATION)	19
- 4200200501KA	SCREW KA 2 x 5 **NIC** (ROHS CERTIFICATION)	5 TIGHT UP IPOD-PCBX5
- 4200200801PA	SCREW PA 2 x 8 **NIC** (ROHS CERTIFICATION)	6 TIGHT UP GAS COVER X2, BRACKET X4
- 4200260601BM	SCREW BM 2.6 x 6 (+-) (ROHS CERTIFICATION)	1 FM ANTENNA X1
- 4200260801PA	SCREW PA 2.6 x 8**NIC** (ROHS CERTIFICATION)	8 TIGHT UP LCD-PCBX4. GAS COVER X4
- 4200300601WA	SCREW PWA 3 x 6 (D=7) **NIC** (ROHS CERTIFICATION)	8 TIGHT UP SPEAKER X8
- 420200001230	EYELET 1.2 x 3mm **NIC** (ROHS CERTIFICATION)	1
- 4401400510R0	Battery Plate (+) (ROHS CERTIFICATION)	1
- 4401400510R1	Battery Plate (-) (ROHS CERTIFICATION)	1
- 4401400510R2	Battery Plate (+/-) (x 2pcs) (ROHS CERTIFICATION)	1
- 440163091505	KEY EVA-2*27 x 20 x 1mm* (ROHS CERTIFICATION)	1
- 440170048901	RUBBER FOOT 12.5 x 1.6 mm*3m*2* (ROHS CERTIFICATION)	4
- 440200060005	I-Pod SPRING (ROHS CERTIFICATION)	1
- 4402007139R0	Mounting Plate (ROHS CERTIFICATION)	1
- 480105091701	PVC-2 * (ROHS CERTIFICATION)	1 PVC-2
- 480105091700	PVC -1* (ROHS CERTIFICATION)	1 PVC-1
- 560900036804	UL TAPE *Nitto 223S* (ROHS CERTIFICATION)	0
FANE915IR-V1-CASING	FANE915IR CASING	1
- 4200140521KB	SCREW KB 1.4 x 5 **NIC** *D2.4* (ROHS CERTIFICATION)	6 TIGHT UP REMOTE BOARD
FANE917-CHASSIS(0)	FANE917 CHASSIS(0) RADIO	1
- 100284D82070	I.C. D8207 "Silicore " (ROHS CERTIFICATION)	1 IC4
- 1002847806CS	I.C. CW7806CS (=KA7806) (ROHS CERTIFICATION)	1 IC5
- 100300928A00	Transistor KSA928A-Y "SAMSUNG" (ROHS CERTIFICATION)	2 Q8.Q12
- 100700000321	Diode SVC321SPA "SANYO" = ISV149 (ROHS CERTIFICATION)	2 D13.D16
- 100700000910	Diode 2CC910 (=DIODE BB910) (ROHS CERTIFICATION)	2 D14.D15
- 100700004001	Diode IN4001 50V "COS" (ROHS CERTIFICATION)	4 D9.D11.D12.D2
- 100700005401	Diode IN5401 (ROHS CERTIFICATION)	1 D10
- 140600227160	E. Cap 220 UF 16V (ROHS CERTIFICATION)	2 C17.C89
- 140600228100	E. Cap 2200 UF 10V +/-20% (ROHS CERTIFICATION)	3 C81.C83.C12
- 140600228160	E. Cap 2200 UF 16V +/-20% (ROHS CERTIFICATION)	1 C19
- 140700106160	Mini E. Cap 10 UF 16V (ROHS CERTIFICATION)	2 C87.C183
- 140700107100	Mini E. Cap 100 UF 10V (ROHS CERTIFICATION)	6 C26.C27.C84.C85.C172.C195
- 140700107160	Mini E. Cap 100 UF 16V (ROHS CERTIFICATION)	1 C11
- 140700226100	Mini E. Cap 22 UF 10V (ROHS CERTIFICATION)	1 C127
- 140700227100	Mini E. Cap 220 UF 10V (ROHS CERTIFICATION)	4 C73.C122.C90.C156
- 140700475500	Mini E. Cap 4.7 UF 50V (ROHS CERTIFICATION)	1 C164
- 140700476100	Mini E. Cap 47 UF 10V (ROHS CERTIFICATION)	3 C20.C24.C169
- 140700476160	Mini E. Cap 47 UF 16V*85°C (ROHS CERTIFICATION)	2 C21.C13
- 140700105500	Mini E. Cap 1 UF 50V (ROHS CERTIFICATION)	1 C31
- 140820022000	Mylar Cap 0.022UF 10%"MIL" (100V) (ROHS CERTIFICATION)	1 C6
- 140820150000	Mylar Cap 0.15 UF +/-10% "Polyester" (ROHS CERTIFICATION)	2 C86.C88

Part list

Code	Description	Quantity	Remark
- 16010000R101	Trimmer Cap *10P* *CVN610* (ROHS CERTIFICATION)	2	VC3.VC4
- 200100008560	AM Coil 85:40 L=90mm (ROHS CERTIFICATION)	1	
- 200150040045	FM Coil 4 x 4.5T (ROHS CERTIFICATION)	1	L12
- 20015300R252	Molding Coil 2.5T (ROHS CERTIFICATION)	1	L9
- 200153000350	Molding Coil 3.5T *Mc101435* (ROHS CERTIFICATION)	1	L7
- 2002000R5171	I.F.T. G6DM-N963485 (BLACK) (ROHS CERTIFICATION)	1	L6
- 2002000R5300	I.F.T. G6DM-C967 (YELLOW) (ROHS CERTIFICATION)	1	L8
- 200200007365	I.F.T. 7PF048C (ROHS CERTIFICATION)	2	T1.T2
- 200250008000	AM Bar (8 x 50 x 7mm) (ROHS CERTIFICATION)	1	
- 200300000032	Bar Holder 8mm ** SOCKET (ROHS CERTIFICATION)	1	
- 240150045011	Filter SFU450B (ROHS CERTIFICATION)	1	Cf6
- 240153501211	FM Filter "CQ" *1 set* (ROHS CERTIFICATION)	1	CF3.CF5
- 240300000100	Crystal 75K CDEJC-206 (ROHS CERTIFICATION)	1	X3
- 260180371001	Tact Switch (TC-0240-Z (250G)) (ROHS CERTIFICATION)	1	RESET
- 260210000320	DC Jack (DS-210-B) (ROHS CERTIFICATION)	1	DC JACK
- 260250000200	Earphone Jack*ST-413-06W*(ROHS CERTIFICATION)	1	PHONE JACK
- 260250090700	Stereo Jack *ST - 28 - G2* (ROHS CERTIFICATION)	1	JACK1
- 3801500000R0	Wire *Copper* Dia.0.6mm (ROHS CERTIFICATION)	0	J1-J17.J20.J22.J25-J31.J33. J35-J37. J18.J19.J21
- 380251GA0602	Wafer 4P {PH:2.0mm}(ROHS CERTIFICATION)	1	CON5
- 380252180001	FFC Connector 18P *D100-SSA-18(N)* (ROHS CERTIFICATION)	1	CON4
- 380252050000	FFC Connector 5P (ROHS CERTIFICATION)	1	CON3
- 380305091500	6 PINS CABLE *UL2651#28*(ROHS CERTIFICATION)	1	CON2
- 4200260651PA	SCREW PA 2.6 x 6 **NIC** "5mm" (ROHS CERTIFICATION)	2	TIGHT UP IC HEAKSINK
- 440200091701	IC HEAT SINK (ST.) (ROHS CERTIFICATION)	1	
FANE917-CHASSIS(1)	FANE917 CHASSIS(1) *CLOCK BOARD*	1	
- 100700005819	Diode IN5819 "DC" (ROHS CERTIFICATION)	1	D201
- 100110GU046A	I.C. IT05GU046A* CPU BOARD * (ROHS CERTIFICATION)	1	
- 100710000330	Zenor 3.3V 1/2W +/-5% (ROHS CERTIFICATION)	1	Z501
- 100860078501	LED WHITE LIGHT *LT66W3-43-URF1-E76* *2* (ROHS CERTIFICATION)	2	LED203.LED204
- 140700106160	Mini E. Cap 10 UF 16V (ROHS CERTIFICATION)	1	C205
- 140700107100	Mini E. Cap 100 UF 10V (ROHS CERTIFICATION)	3	C214.C218.C501
- 140700476100	Mini E. Cap 47 UF 10V (ROHS CERTIFICATION)	1	C901
- 20015200R100	Chock Coil 10uH GEC 24 - 100K/J (ROHS CERTIFICATION)	1	L201
- 2201000917D0	DISPLAY TB0054TTN#G-A1 (ROHS CERTIFICATION)	1	LCD
- 240154000194	IR Module REMOTE RECEIVER KSM-803LM(38BT) (ROHS CERTIFICATION)	1	IR901
- 240200000200	Resonator *4.19MHz 2 PINS* "CF" (ROHS CERTIFICATION)	1	X201
- 2402000481R0	Resonator *ZTA7.6MT-LFA* SI481 (ROHS CERTIFICATION)	1	X501
- 240250000150	Quartz 12.5PF +/-10PPM "CITIZEN" (ROHS CERTIFICATION)	1	X202
- 300100091700	Zebra 49.8 x 6.6 x 2mm "YP" (ROHS CERTIFICATION)	1	
- 380252050000	FFC Connector 5P (ROHS CERTIFICATION)	1	CN6
- 380252080002	FFC 8P (180°C VERTICAL SOCKET) (ROHS CERTIFICATION)	1	CON5
- 380308180120	FFC 18 PIN CABLE L = 120mm* (ROHS CERTIFICATION)	1	CON3
- 440180091700	GROUND PAPER 71.2 x 36 x 0.1mm (ROHS CERTIFICATION)	2	
- 440200091700	LCD METAL BRACKET (ST.) (ROHS CERTIFICATION)	1	
- 480107091700	REFLECTION PAPER 71.2 X 36 X 0.1mm (ROHS CERTIFICATION)	1	
FANE917-CHASSIS(2)	FANE917 CHASSIS(2) *IPOD CONNECTION BOARD*	1	
- 340150091705	PCB *I-Pod Jack BOARD* (ROHS CERTIFICATION)	1	
- 380259050000	30 PIN I-Pod SOCKET *PD15630-F* (ROHS CERTIFICATION)	1	
- 380308050110	FFC 5Pin CABLE L = 110 (ROHS CERTIFICATION)	2	
FANE917-CHASSIS(3)	FANE917 CHASSIS(3) *SWITCH BOARD*	1	
- 340150091703	PCB *SWITCH BOARD* (ROHS CERTIFICATION)	1	

Part list

Code	Description	Quantity Remark
- 260180000100	Touch Switch (DT4113C)*6 x 6 x 4.3* (ROHS CERTIFICATION)	14
- 380308080090	FFC UL CABLE 8 PIN * L = 90mm * (ROHS CERTIFICATION)	1
FANE917-CHASSIS(4)	FANE917 CHASSIS(4) *USB BOARD*	1
- 1003008550D0	Transistor 8550D(8550C) "SEMTECH" (ROHS CERTIFICATION)	1 Q3
- 140700106160	Mini E. Cap 10 UF 16V (ROHS CERTIFICATION)	2 C16.C31
- 140700107100	Mini E. Cap 100 UF 10V (ROHS CERTIFICATION)	4 C11.C13.C25.C26
- 140700227100	Mini E. Cap 220 UF 10V (ROHS CERTIFICATION)	1 C7
- 240154051100	CRYSTAL 12MHz +/-30PPM(ROHS CERTIFICATION)	1 X1
- 24020000R150	Resonator 16.93MHZ "CF" *3 Foot* (ROHS CERTIFICATION)	1 X3
- 260180000100	Touch Switch (DT4113C)*6 x 6 x 4.3* (ROHS CERTIFICATION)	6 STOP,PLAY,FF, FR,DIR+,+10
- 380251GA0604	Wafer 6P *S-1125-06(K)* (ROHS CERTIFICATION)	1 CON1
FANE917-CHASSIS(5)	FANE917 CHASSIS(5) *USB JACK BOARD*	1
- 340150091702	PCB *USB Jack BOARD* (ROHS CERTIFICATION)	1 1.6mm
- 380257051800	USB SOCKET (USB A90)(ROHS CERTIFICATION)	1 USB JACK
FANE915IR-V1-CHASSIS	FANE915IR CHASSIS *IPOD REMOTE BOARD* (ROHS CERTIFICATION)	1
- 10070000320H	Diode IE-0320H WATER CLEAR (ROHS CERTIFICATION)	1 IR
- 140700476060	Mini E. Cap 47 UF 6.3V (ROHS CERTIFICATION)	1 C3
- 240200000250	Resonator*455KHz CRB455EB* (ROHS CERTIFICATION)	1 Z1
- 360100000601	Battery Lithium 3V *CR203 2* "New Sun" (ROHS CERTIFICATION)	1
- 440140368I01	Battery Contact (-) "REMOTE" (ROHS CERTIFICATION)	1
- 440140600I00	Battery Contact (+) *REMOTE * (ROHS CERTIFICATION)	1
- 440160003910	SPONGE 39 x 28 x 5mm *(ROHS CERTIFICATION)	0
- 440170717600	RUBBER FOOT 13.3 x 6.2mm 7176 (ROHS CERTIFICATION)	1
FANE917-SMD(0)	FANE917 SMD(0) *RAIDO BOARD*	1
- 340150091700	PCB *RADIO BOARD* (ROHS CERTIFICATION)	1
- 1002642614FS	I.C.*BU2614FS* "ROHM" (ROHS CERTIFICATION)	1 IC7
- 100284SC7314	I.C. SC7314 " Silan " (ROHS CERTIFICATION)	1 IC1
- 1002842104S0	IC. SA2104S * Silan * NE398 / 417427-PLL (ROHS CERTIFICATION)	1 IC3
- 100284455801	IC. UTC4558 *SMD* PH=1.27mm SI801 (ROHS CERTIFICATION)	1 U2
- 1003011162GR	Transistor 2SA1162GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	1 Q9
- 1003032712GR	Transistor 2SC2712GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	10 Q11.Q17.Q19.Q20.Q10.Q21.Q24. Q28.Q3.Q5
- 1005008550D0	Transistor MMBT8550D (ROHS CERTIFICATION)	1 Q25
- 100750000100	Chip Diode BAS16 "PHILIPS" (=In4148) (ROHS CERTIFICATION)	3 D17.D18.D1
- 120230000000	Chip Resistor 0 OHM(0603)+/-5% (ROHS CERTIFICATION)	4 RJ2.RJ4.RJ5.RJ50
- 120230000470	Chip Resistor 4.7 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R68.R125
- 120230001000	Chip Resistor 10 OHM(0603)+/-5% (ROHS CERTIFICATION)	1 R67
- 120230010000	Chip Resistor 100 OHM(0603)+/-5% (ROHS CERTIFICATION)	3 R154.R155.RJ1
- 120230012000	Chip Resistor 120 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R9.R18
- 120230022000	Chip Resistor 220 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R20.R21
- 120230033000	Chip Resistor 330 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R158.R178
- 120230082000	Chip Resistor 820 OHM(0603)+/-5% (ROHS CERTIFICATION)	1 R179
- 120231000100	Chip Resistor 1K(0603)+/-5%(ROHS CERTIFICATION)	6 R102.R153.R166.R14.R45.R47
- 120231000120	Chip Resistor 1.2K(0603)+/-5% (ROHS CERTIFICATION)	1 R165
- 120231000150	Chip Resistor 1.5K(0603) +/-5% (ROHS CERTIFICATION)	2 R171.R177

Part list

Code	Description	Quantity Remark
- 120231000220	Chip Resistor 2.2K(0603)+/-5% (ROHS CERTIFICATION)	9 R130.R134.R141.R142.R79. R3.R4.R12.R13
- 120231000270	Chip Resistor 2.7K(0603)+/-5% (ROHS CERTIFICATION)	2 R71.R72
- 120231000330	Chip Resistor 3.3K(0603)+/-5% (ROHS CERTIFICATION)	1 R159
- 120231000470	Chip Resistor 4.7K(0603)+/-5% (ROHS CERTIFICATION)	1 R35
- 120231000560	Chip Resistor 5.6K(0603)+/-5% (ROHS CERTIFICATION)	6 R15.R40.R74.R135.R138.R172
- 120231000820	Chip Resistor 8.2K(0603)+/-5% (ROHS CERTIFICATION)	4 R139.R140.R5.R11
- 120231001000	Chip Resistor 10K(0603)+/-5% (ROHS CERTIFICATION)	R111.R117.R152.R167.R168. 12 R176. R120.R123.R126.R127. R132.R173
- 120231001200	Chip Resistor 12K(0603)+/-5% (ROHS CERTIFICATION)	9 R160.R136.R137.R6.R7.R122. R121.R124.R119
- 120231002200	Chip Resistor 22K(0603)+/-5% (ROHS CERTIFICATION)	4 R78.R77.R8.R10
- 120231004700	Chip Resistor 47K(0603)+/-5% (ROHS CERTIFICATION)	3 R145.R146.R157
- 120231006800	Chip Resistor 68K(0603)+/-5% (ROHS CERTIFICATION)	1 R49
- 120231010000	Chip Resistor 100K(0603)+/-5% (ROHS CERTIFICATION)	3 R150.R151.R52
- 120231018000	Chip Resistor 180K(0603)+/-5% (ROHS CERTIFICATION)	2 R144.R147
- 120234000180	Chip Resistor 1.8K(0603)+/-1% (ROHS CERTIFICATION)	2 R59.R60
- 120234000820	Chip Resistor 8.2K (0603)+/-1% (ROHS CERTIFICATION)	2 R58.R61
- 120234001000	Chip Resistor 10K(0603)+/-1% (ROHS CERTIFICATION)	3 R54.R55.R63
- 120234010000	Chip Resistor 100K(0603)+/-1% (ROHS CERTIFICATION)	5 R57.R62.R64.R65.R66
- 120234020000	Chip Resistor 200K(0603)+/-1% (ROHS CERTIFICATION)	2 R53.R56
- 120234047000	Chip Resistor 470K(0603)+/-1% (ROHS CERTIFICATION)	1 R143
- 120234082000	Chip Resistor 820K(0603)+/-1% (ROHS CERTIFICATION)	1 R39
- 120270000000	Chip Resistor 0 OHM(1206)+/-5% (ROHS CERTIFICATION)	5 RJJ1.RJJ3.RJJ4.RJJ2.RJJ5
- 140410000005	Chip Cap 5 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	1 C181
- 140410000020	Chip Cap 20 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	1 C199
- 140410000022	Chip Cap 22 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C168.C165
- 140410000024	Chip Cap 24 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	1 C155
- 140410000030	Chip Cap 30 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	3 C170. C171.C166
- 140410000056	Chip Cap 56 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	3 C198.C33.C34
- 140410000100	Chip Cap 100 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	1 C151
- 140410000330	Chip Cap 330 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C184.C197
- 140435001000	Chip Cap 0.001 UF(0603)+/-10% (ROHS CERTIFICATION)	C8.C113.C114.C154.C200.C144. 13 C147.C148.C123.C124.C143. C189.C190
- 140435002200	Chip Cap 0.0022 UF(0603)+/-10% (ROHS CERTIFICATION)	2 C179.C180
- 140435002700	Chip Cap 0.0027 UF(0603)+/-10% (ROHS CERTIFICATION)	2 C126.C128
- 140435003300	Chip Cap 0.0033 UF(0603)+/-10% (ROHS CERTIFICATION)	2 C29.C221

Part list

Code	Description	Quantity Remark
- 140440000100	Chip Cap 1 UF(0603)+80/-20% Y5V (ROHS CERTIFICATION)	C4.C100.C101.C102.C108.C109. C115.C135.C136.C137.C142.C145. 29C146.C149.C150.C162.C163.C186. C201.C15.C18.C22.C23.C25.C116. C129.C132.C133.C134
- 140440010000	Chip Cap 0.01 UF(0603)+80/-20% (ROHS CERTIFICATION)	5 C152.C153.C167.C178.C194.
- 140440100000	Chip Cap 0.1 UF(0603)+80/-20% Y5V (ROHS CERTIFICATION)	C91.C92.C94.C121.C130.C131.C138. 20 C139.C140.C141.C157.C161.C173. C182.C185.C206.C215.C14.C28.C202
- 140440470000	Chip Cap 0.47UF(0603)16V+80/-20% Y5V (ROHS CERTIFICATION)	1 C160
FANE917-SMD(1)	FANE917 SMD(1) *CLOCK BOARD*	1
- 340150091701	PCB *CLOCK BOARD* (ROHS CERTIFICATION)	1
- 1001222K1520	I.C. WP2K152 "OTP" (ROHS CERTIFICATION)	1 IC2
- 100294E332PR	I.C. XC6203E332PR *3.3V*(SOT-89)=1002943302PR (ROHS CERTIFICATION)	1 IC202
- 1003011162GR	Transistor 2SA1162GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	1 Q7
- 1003032712GR	Transistor 2SC2712GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	3 Q4.Q6.Q201
- 100750000100	Chip Diode BAS16 "PHILIPS" (=IN4148) (ROHS CERTIFICATION)	4 D214.D501.D502.D903
- 120230006800	Chip Resistor 68 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R24.R25
- 120230033000	Chip Resistor 330 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R73.R501
- 120231000100	Chip Resistor 1K(0603)+/-5% (ROHS CERTIFICATION)	7 R31.R32.R19.R16.R75.R90.R89
- 120231000150	Chip Resistor 1.5K(0603) +/-5% (ROHS CERTIFICATION)	1 R22
- 120231000220	Chip Resistor 2.2K(0603)+/-5% (ROHS CERTIFICATION)	1 R48
- 120231000270	Chip Resistor 2.7K(0603)+/-5% (ROHS CERTIFICATION)	2 R69.R70
- 120231000330	Chip Resistor 3.3K(0603)+/-5% (ROHS CERTIFICATION)	6 R17.R29.R30.R34.R41.R27
- 120231001000	Chip Resistor 10K(0603)+/-5% (ROHS CERTIFICATION)	3 R23.R26.R28
- 120231003900	Chip Resistor 39K(0603)+/-5% (ROHS CERTIFICATION)	1 R504
- 120231005600	Chip Resistor 56K(0603)+/-5% (ROHS CERTIFICATION)	1 R86
- 120231010000	Chip Resistor 100K(0603)+/-5% (ROHS CERTIFICATION)	1 R502
- 120231022000	Chip Resistor 220K(0603)+/-5% (ROHS CERTIFICATION)	2 R1.R33
- 120231033000	Chip Resistor 330K(0603)+/-5% (ROHS CERTIFICATION)	1 R246
- 120231047000	Chip Resistor 470K(0603)+/-5% (ROHS CERTIFICATION)	1 R76
- 120231051000	Chip Resistor 510K(0603)+/-5% (ROHS CERTIFICATION)	1 R505
- 120235000100	Chip Resistor 1M(0603)+/-1% (ROHS CERTIFICATION)	2 R245.R248
- 140410000015	Chip Cap 15 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C506.C507
- 140410000027	Chip Cap 27 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	1 C212
- 140410000056	Chip Cap 56 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C16.C213
- 140410000100	Chip Cap 100 PF(0603)+/-5% NPO (ROHS CERTIFICATION)	5 C2.C3.C5.C210.C211
- 140440100000	Chip Cap 0.1 UF(0603)+80/-20% Y5V (ROHS CERTIFICATION)	10 C203.C207.C208.C209.C216. C217.C228.C505.C902.C7
FANE917-SMD(2)	FANE917 SMD(2) *USB BOARD*	1
- 340150091704	PCB *USB BOARD* *NE917-5A* (ROHS CERTIFICATION)	1 1.2mm

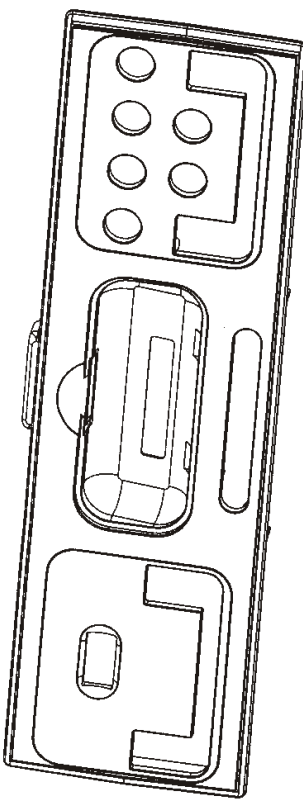
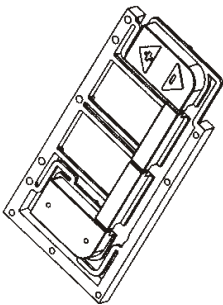
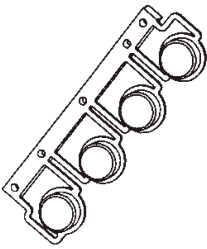
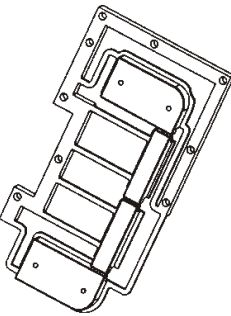
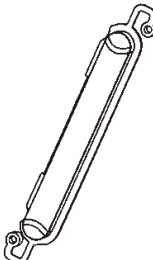
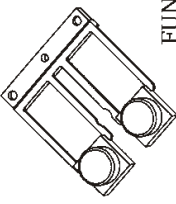
Part list

Code	Description	Quantity Remark
- 100264BU9432	I.C.*BU9432KVT*"ROHM" (ROHS CERTIFICATION)	1 IC1
- 1002643259FP	IC.*BA3259HFP*"ROHM" * (ROHS CERTIFICATION)	1 IC2
- 1003011162GR	Transistor 2SA1162GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	1 Q5
- 1003032712GR	Transistor 2SC2712GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	5 Q4.Q10.Q2.Q6.Q7
- 1005008550D0	Transistor MMBT8550D (ROHS CERTIFICATION)	1 Q1
- 100750000100	Chip Diode BAS16 "PHILIPS" (=IN4148) (ROHS CERTIFICATION)	3 D1.D2.D4
- 120230022000	Chip Resistor 220 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R15.R48
- 120230047000	Chip Resistor 470 OHM(0603)+/-5% (ROHS CERTIFICATION)	1 R32
- 120231000100	Chip Resistor 1K(0603)+/-5% (ROHS CERTIFICATION)	1 R20
- 120231000220	Chip Resistor 2.2K(0603)+/-5% (ROHS CERTIFICATION)	4 R1.R11.R30.R40
- 120231000470	Chip Resistor 4.7K(0603)+/-5% (ROHS CERTIFICATION)	1 R7
- 120231001000	Chip Resistor 10K(0603)+/-5% (ROHS CERTIFICATION)	4 R23.R24.R36.R21
- 120231001200	Chip Resistor 12K(0603)+/-5% (ROHS CERTIFICATION)	1 R3
- 120231002200	Chip Resistor 22K(0603)+/-5% (ROHS CERTIFICATION)	4 R25.R26.R35.R42
- 120231004700	Chip Resistor 47K(0603)+/-5% (ROHS CERTIFICATION)	1 R41
- 120231005600	Chip Resistor 56K(0603)+/-5% (ROHS CERTIFICATION)	2 R27.R29
- 120231006800	Chip Resistor 68K(0603)+/-5% (ROHS CERTIFICATION)	1 R19
- 120231010000	Chip Resistor 100K(0603)+/-5% (ROHS CERTIFICATION)	R2.R4.R8.R13. R22.R28.R31. 16 R37. R44.R46. R47.R6.R5.R33. R38.R111
- 120231022000	Chip Resistor 220K(0603)+/-5% (ROHS CERTIFICATION)	1 R34
- 120232000100	Chip Resistor 1M(0603)+/-5% (ROHS CERTIFICATION)	2 R14.R49
- 120234000330	Chip Resistor 3.3K(0603)+/-1% (ROHS CERTIFICATION)	1 R18
- 120234000470	Chip Resistor 4.7K(0603)+/-1% (ROHS CERTIFICATION)	1 R16
- 120234001000	Chip Resistor 10K(0603)+/-1% (ROHS CERTIFICATION)	1 R17
- 140440100000	Chip Cap 0.1 uF(0603)+80/-20% Y5V (ROHS CERTIFICATION)	14 C1.C4.C8.C9.C12.C18.C19.C23. C24.C27.C28.C29.C74.C30
- 140440000100	Chip Cap 1 uF(0603)+80/-20% Y5V (ROHS CERTIFICATION)	4 C15.C20.C14.C21
- 140410000015	Chip Cap 15 pF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C2.C3
- 140430000560	Chip Cap 560 pF(0603)+/10% (ROHS CERTIFICATION)	4 C10.C17.C22.C75
FANE915IR-V1-SMD	FANE915IR SMD *REMOTE BOARD*	1
- 340150091513	PCB *REMOTE BOARD* (ROHS CERTIFICATION)	1
- 100284222110	I.C.PT2221-001 / AS2221-001 (ROHS CERTIFICATION)	1 IC1
- 1003032712GR	Transistor 2SC2712GR-T-TOS "TOSHIBA" (ROHS CERTIFICATION)	1 Q2
- 120230000470	Chip Resistor 4.7 OHM(0603)+/-5% (ROHS CERTIFICATION)	2 R1.R2
- 120231010000	Chip Resistor 100K(0603)+/-5% (ROHS CERTIFICATION)	1 R3
- 140410000220	Chip Cap 220 pF(0603)+/-5% NPO (ROHS CERTIFICATION)	2 C4.C5

Plastic Part Table

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BOTTOM CAB																																																					
FRONT CAB																																																					
<table border="1"><tr><td>MODEL:</td><td>ITEM:</td><td colspan="4">Plastic Table</td></tr><tr><td>QTY: 1</td><td>MATERIAL:</td><td colspan="4"></td></tr><tr><td>SCALE</td><td>FINISH:</td><td colspan="4"></td></tr><tr><td>UNIT: MM</td><td>DRAWN</td><td>DATE CHECKED</td><td>DATE APPROVAL</td><td>DATE</td><td></td></tr><tr><td colspan="2"></td><td colspan="2"></td><td></td><td></td></tr><tr><td colspan="5"></td><td>PART NO.</td></tr><tr><td colspan="5"></td><td>A4</td></tr><tr><td colspan="5"></td><td>1</td></tr></table>						MODEL:	ITEM:	Plastic Table				QTY: 1	MATERIAL:					SCALE	FINISH:					UNIT: MM	DRAWN	DATE CHECKED	DATE APPROVAL	DATE													PART NO.						A4						1
MODEL:	ITEM:	Plastic Table																																																			
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<table border="1"><tr><td>D</td><td>C</td><td>B</td><td>A</td><td></td><td></td></tr></table>						D	C	B	A																																												
D	C	B	A																																																		

Plastic Part Table

6						5		4		3		2		1	
2 of page 5															
 TOP CAB															
 FUNCTION-KNOB-3															
 FUNCTION-KNOB															
 VOL-KNOB															
 REPOSE-KNOB															
 FUNCTION-KNOB-2															
ITEM: Plastic Table															
MODEL: 1															
MATERIAL: 1															
SCALE: 1															
UNIT: MM															
DRAWN: 															
DATE CHECKED: 															
DATE APPROVAL: 															
DATE: 															
PART NO. A4															
6						5		4		3		2		1	

Plastic Part Table

[illegible]

Plastic Part Table

4 of page 5

IPOD PCB BR1

IPOD PCB BR2

IPOD PCB BR2

IPOD 10/ 15/ 20GB

IPOD 30 / 40 GB

IPOD 60 GB

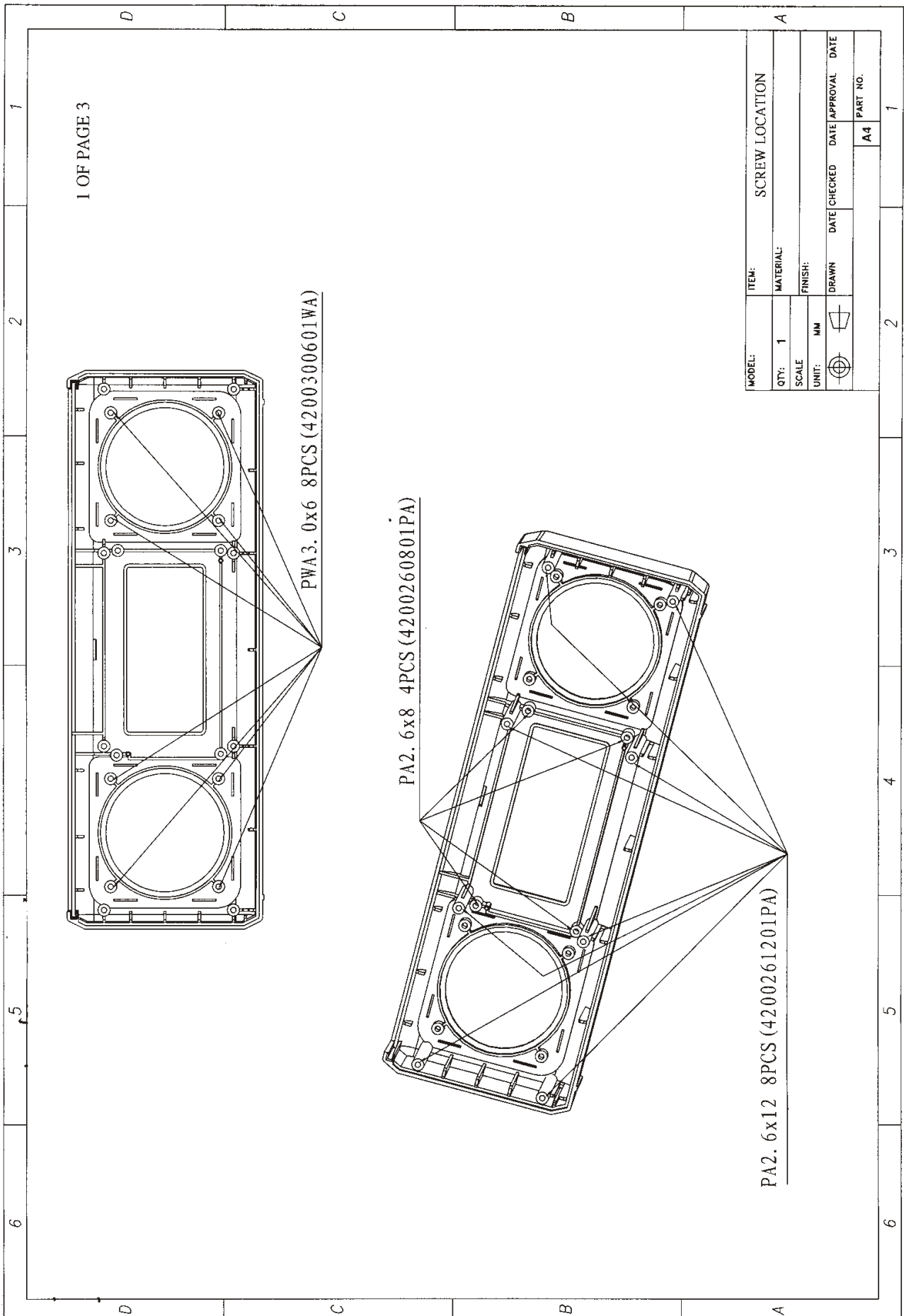
IPOD BKT

MODEL:		ITEM:	Plastic Table .		A	
QTY:	1	MATERIAL:				
SCALE		FINISH:				
UNIT:	MM	DRAWN	DATE	CHECKED	DATE	APPROVAL
						DATE
						PART NO.
						A4

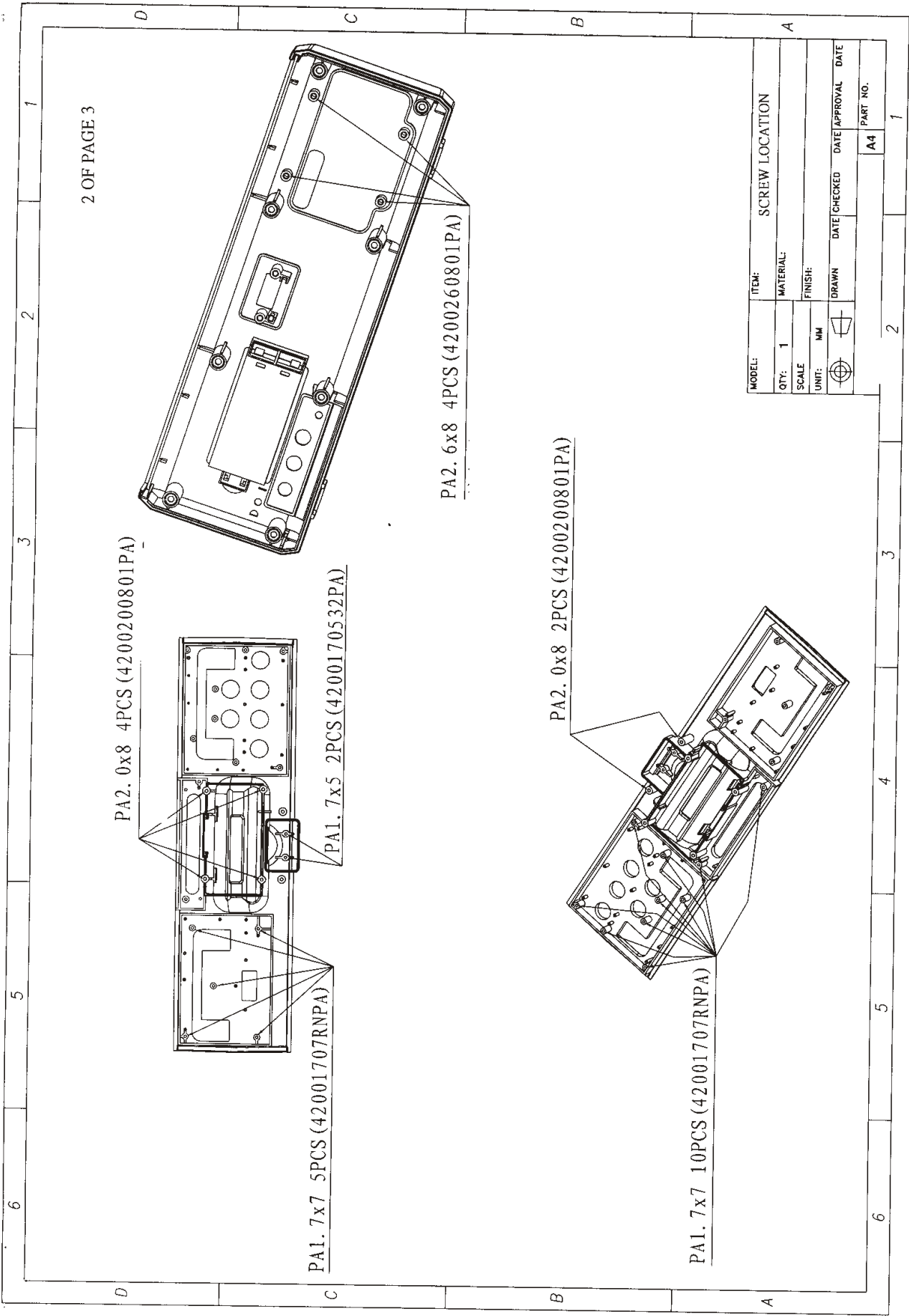
Plastic Part Table

6						1					
5						2					
3						3					
2						4					
1						5					
D						6					
5 of page 5						IPOD MINI					
IPOD DUST COVER						IPOD NANO					
C						A					
B						ITEM: Plastic Table					
A						MODEL: QTY: 1 MATERIAL: SCALE FINISH: UNIT: MM DRAWN DATE CHECKED DATE APPROVAL DATE PART NO. A4					
1						2					
2						3					
3						4					
4						5					
5						6					
D						C					
B						A					

Screw Location



Screw Location



Screw Location

[illegible]