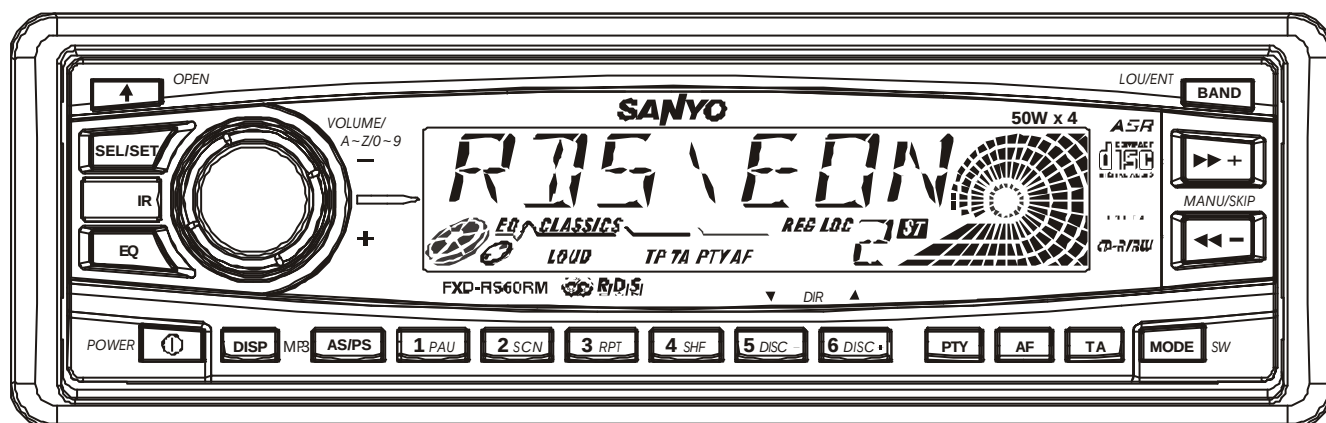




FILE NO.

Service Manual

Full Panel Detachable FXD-RS60RM/XE
High Power 114782740
FM/MW/LW Stereo
Receiver
Compact Disc Player



FXD-RS60RM

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REFERENCE NO: SM-0600009

SPECIFICATIONS

FM TUNER

Frequency Range FM 87.5 - 108.0 MHz (50 KHz Step)
Sensitivity FM 3 μ V (S/N=30 dB)
Stereo Separating (FM) 30 dB (at 1kHz)
Signal to noise ratio (FM) Better than 50 dB

AM TUNER

Frequency Range MW 522 - 1620 kHz (9 KHz Step)
Sensitivity MW 32 dB μ (S/N=20 dB)
Signal to Noise Radio More than 45 dB

LW TUNER

Frequency Range LW 144 - 288 kHz
Sensitivity LW 35 dB μ (S/N=20 dB)

CD PLAYER

Frequency Response 20Hz - 20,000Hz
Signal to Noise Radio More than 65 dB
Channel Separation More than 60 dB
T. H. D. Less than 0.30%

AUDIO AMPLIFIER & GENERAL

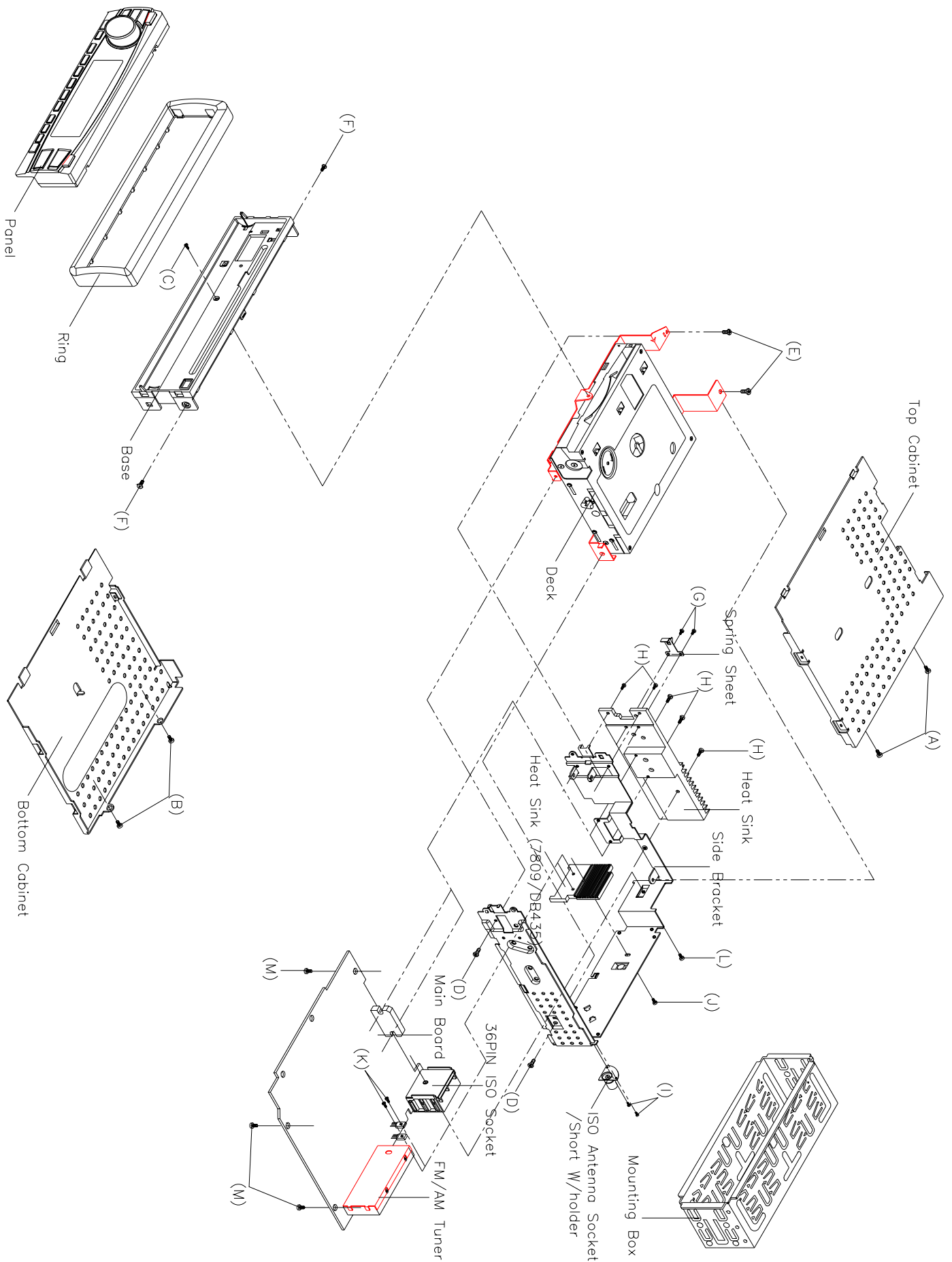
Output Power 4 X 50 W
Speaker Output Impedance 4 ohm
Power Source DC 12V, Negative ground.

Specifications are subject to change without notice.

DISASSEMBLY INSTRUCTIONS

1. Using the unlock key that came with the unit or a similar tool, unlock the Mounting Box and remove toward the rear of the unit.
2. Remove two screws (A) located on the rear of the side bracket then remove the Bottom Cover.
3. Remove two screws (B) located on the rear of the side bracket then remove the Bottom Cabinet.
4. Take out the Panel and the Ring.
Remove the screw (C) from on the front of the base.
5. Remove two screws (D) from on the left side of the side bracket.
Remove two screws (E) from on the right side of the side bracket then remove the Deck.
6. Remove two screws (F) from each side of the base then remove the Base.
7. Remove two screws (G) from on the left side of the side bracket then remove Spring Sheet.
Remove five screws (H) from on the left side of the side bracket then remove the Heat Sink.
8. Remove the screw (I) from on the back of the side bracket then remove the ISO Antenna Socket /Short W /Holder.
9. Remove the screw (J) from on the back of the side bracket and remove two screws (K) from on the main board then remove the Heat Sink (7809/DB435).
10. Remove the screw (L) from on the back of the side bracket the remove the 36PIN ISO Socket.
11. Remove three screws (M) from under the main board then remove the Main Board.

DISASSEMBLY DIAGRAM



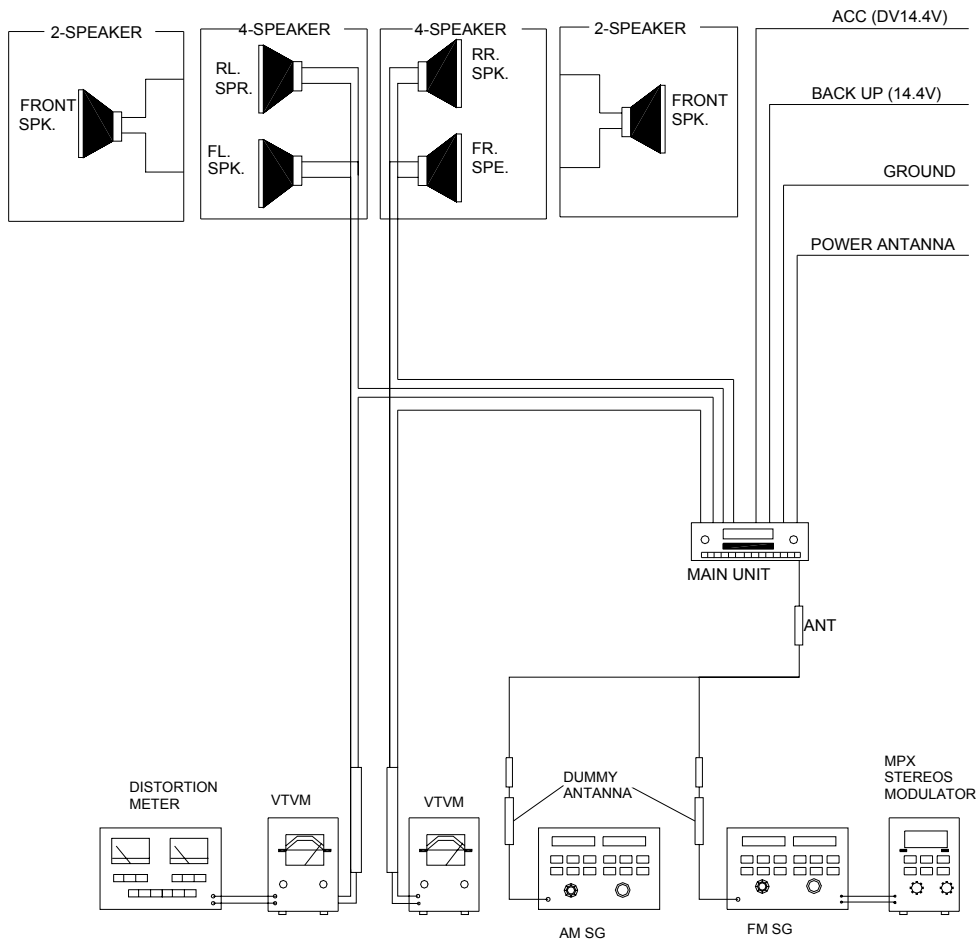
OPERATION CHECK

GENERAL SPECIFICATIONS OF SIGNAL

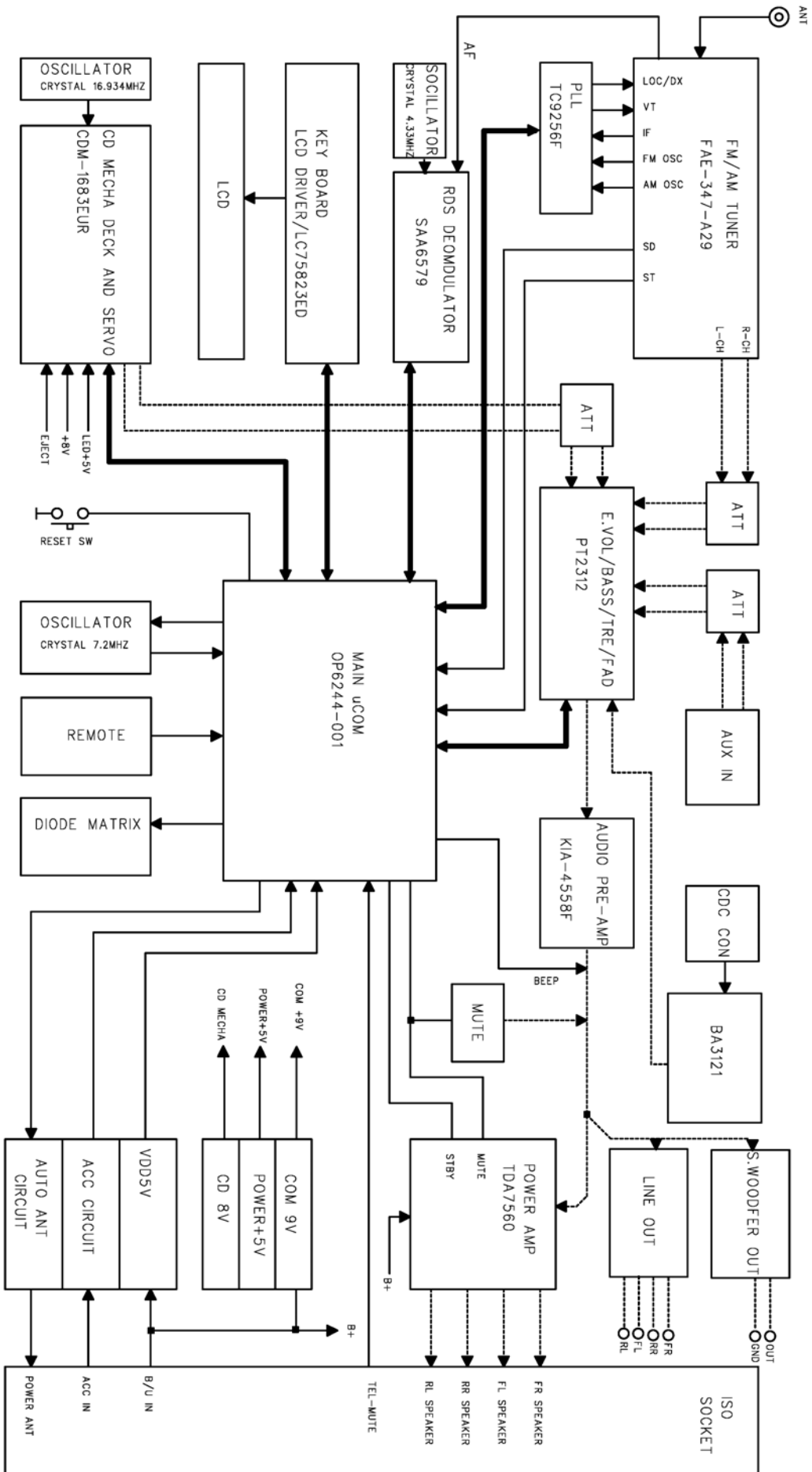
Standard frequency	FM	98.1 MHz (87.5, 108 MHz)	
	MW	1000 kHz (522, 1620 kHz)	
	LW	200 kHz (144, 288kHz)	
Signal output	FM	1mV	
	MW	5 mV	
	LW	5 mV	
Modulation	MW	400 Hz	30% MOD.
	FM Stereo	1 kHz	75kHz DEV.
			46% for L only or R only pilot level 8%
AF output level	FM/MW/LW		
Power source voltage	DC 14.0V (Backup voltage is the same as this)		
AF load impedance	4 ohm pure resistance		
Balance	Center position of level		
Tone	Center position		

The signal strength read in this section is voltage on the antenna.

Test Diagram

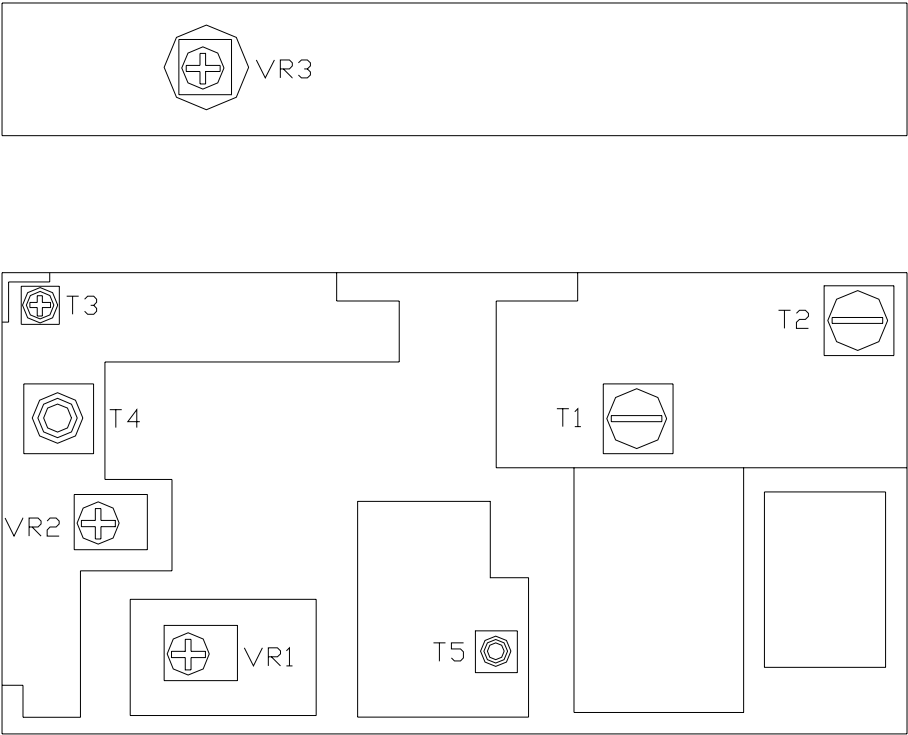


BLOCK DIAGRAM



ALIGNMENT LOCATIONS

FM/MW/LW TUNER



ALIGNMENT PROCEDURES

FM ADJUSTMENT

Equipment Required

- AM/FM IF/RF signal generator
- Solid-state voltmeter (SSVM)
- Regulated DC power supply
- 2-CH voltmeter
- Distortion meter

FM Alignment Using FM Signal Generator

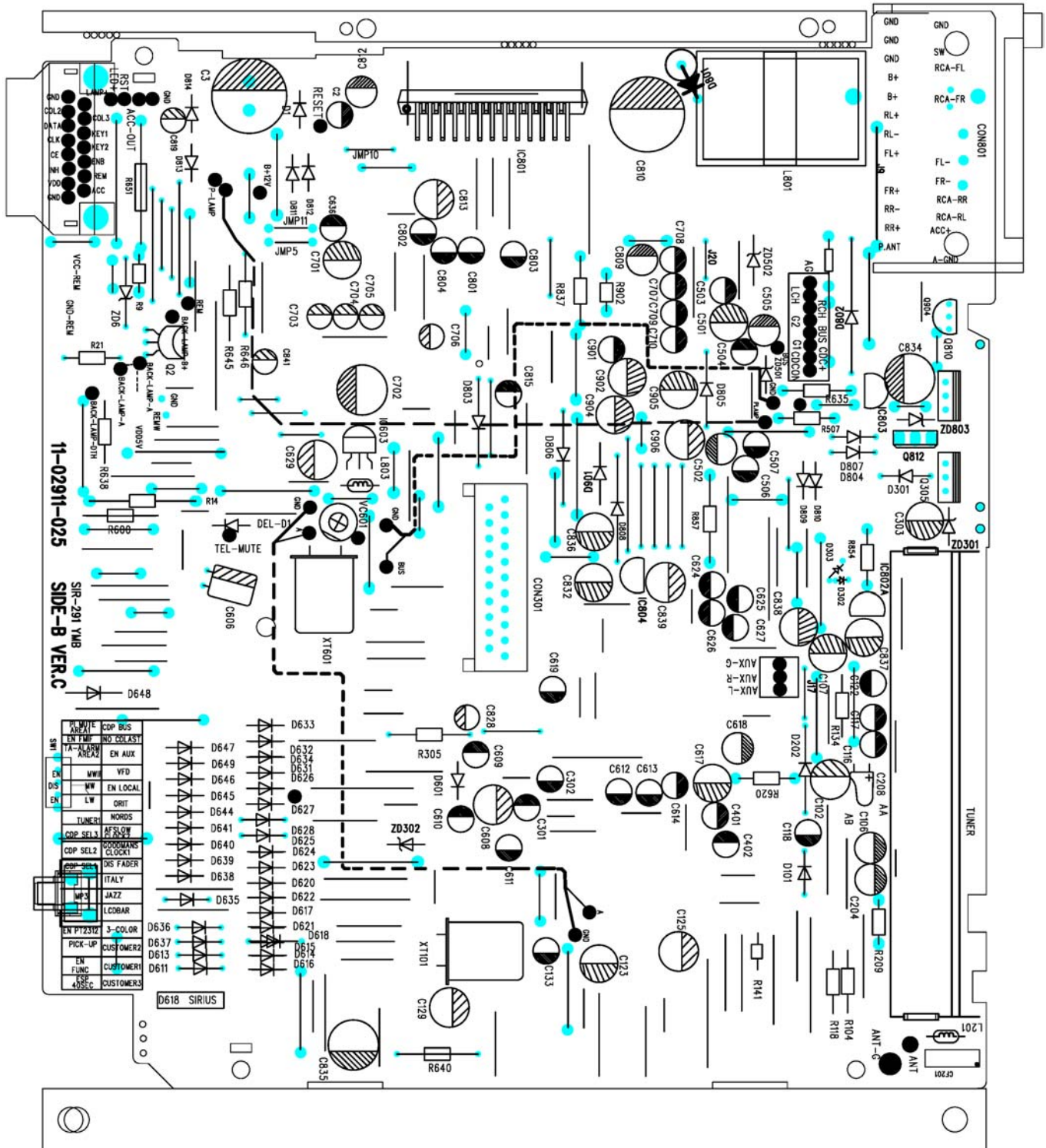
Note: Press the radio power switch to on the radio. Signal generator output must be kept as low as possible to avoid overload and clipping.

Step	Generator Coupling	Generator	Display Setting	Adjustment	Remarks
Stereo Separation	Signal Generator to antenna receptacle	98.1 MHz Int. 1 kHz Dev. 75 kHz L+R = 90 % pilot = 10 %	98.1 MHz	VR1	Adjust AF output power at maximum separating more than 30 dB
FM SNC Adjustment	98.1 MHz Dev. 75 kHz L+R=90 % Int. 1 kHz 60dB μ V output	98.1 MHz @ 40 dB μ	98.1 MHz	VR2	Stereo Separation 25 dB ($\pm$ 5 dB)
Stop SENS.	Signal Generator to antenna receptacle	98.1 MHz Mod. 1kHz Dev 75kHz	98.1 MHz	VR3	Adjust AF to stop station.

Note: The tuner module is well-adjust and adjustment is not recommended.

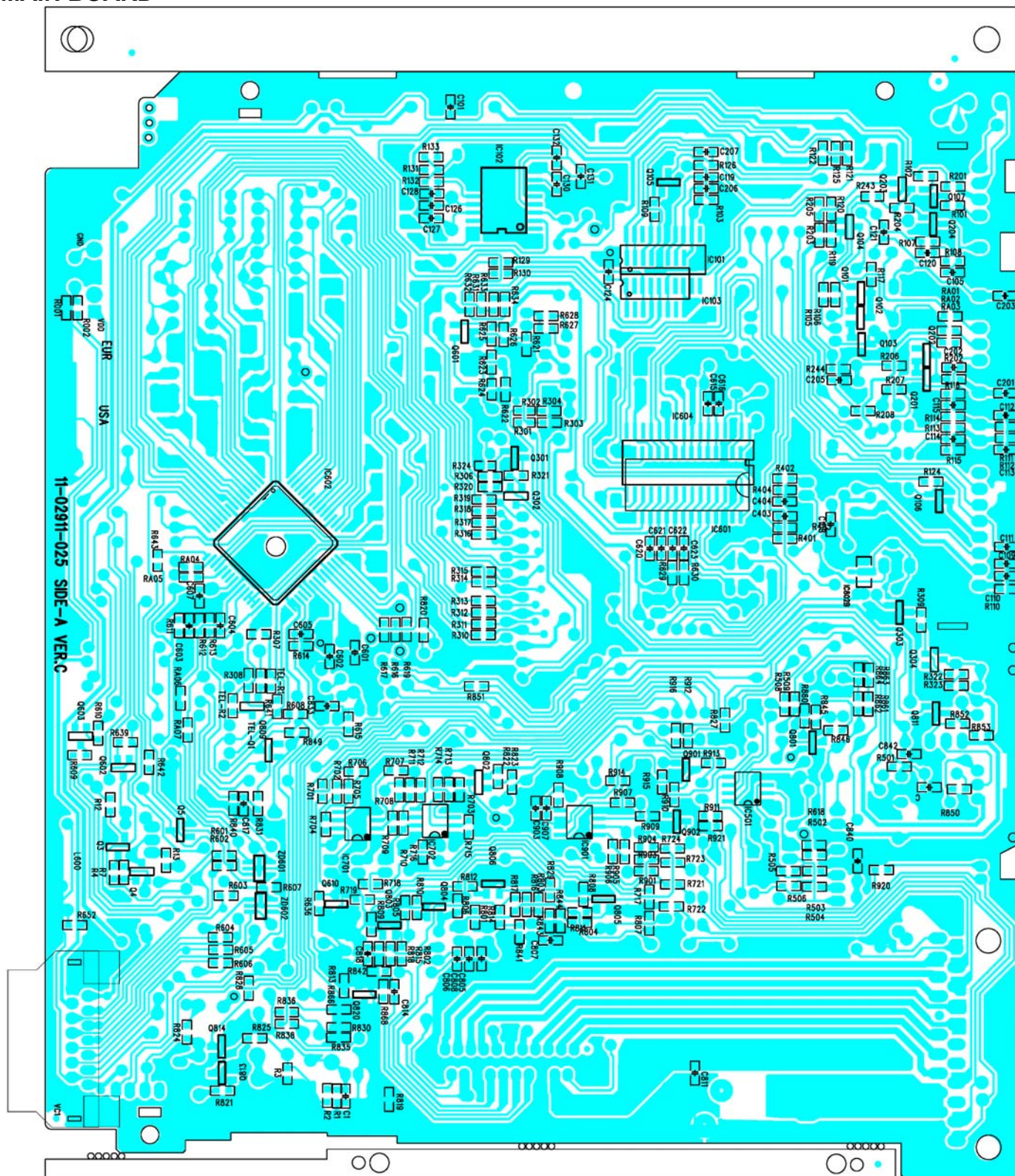
PRINTED CIRCUIT BOARDS

MAIN BOARD



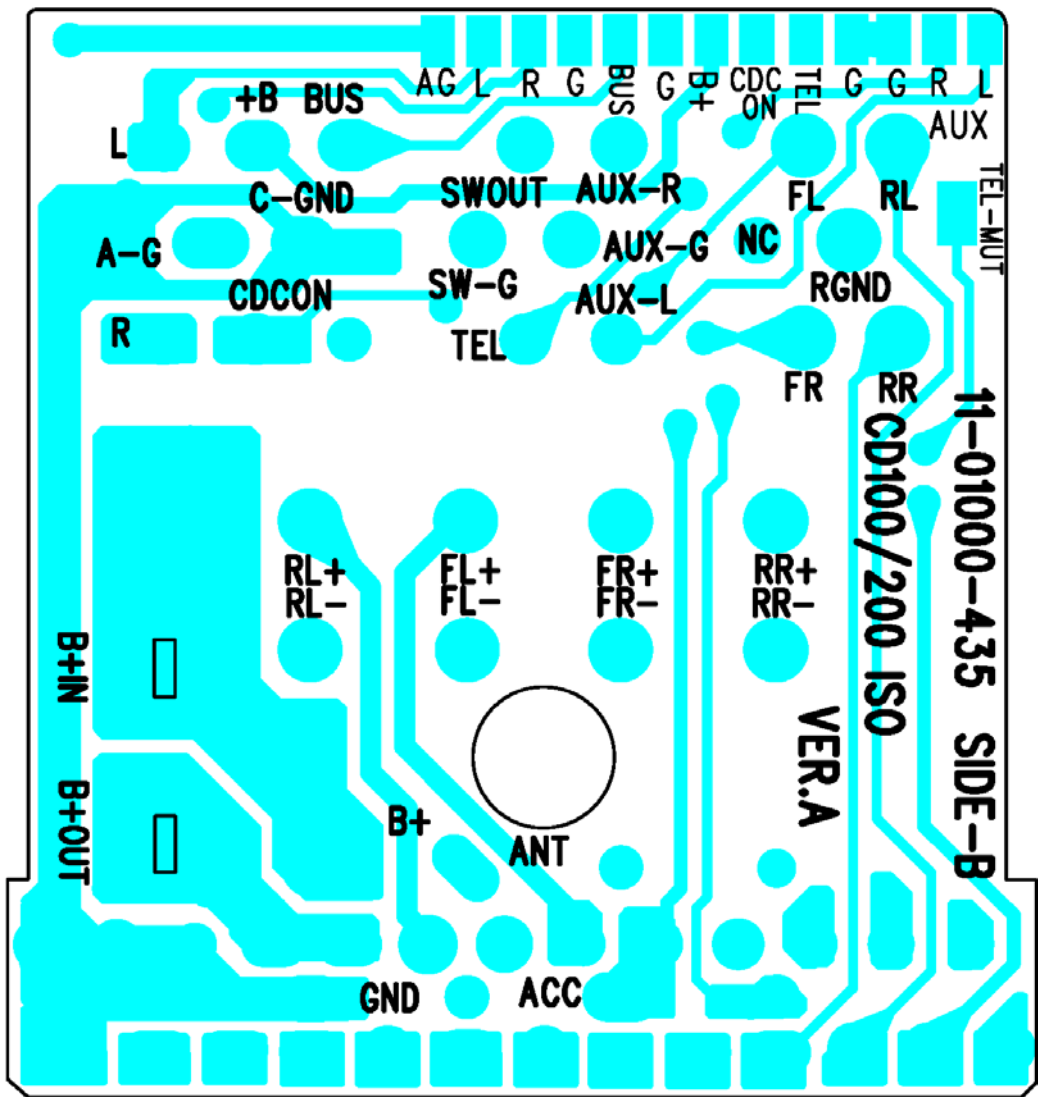
TOP VIEW

MAIN BOARD

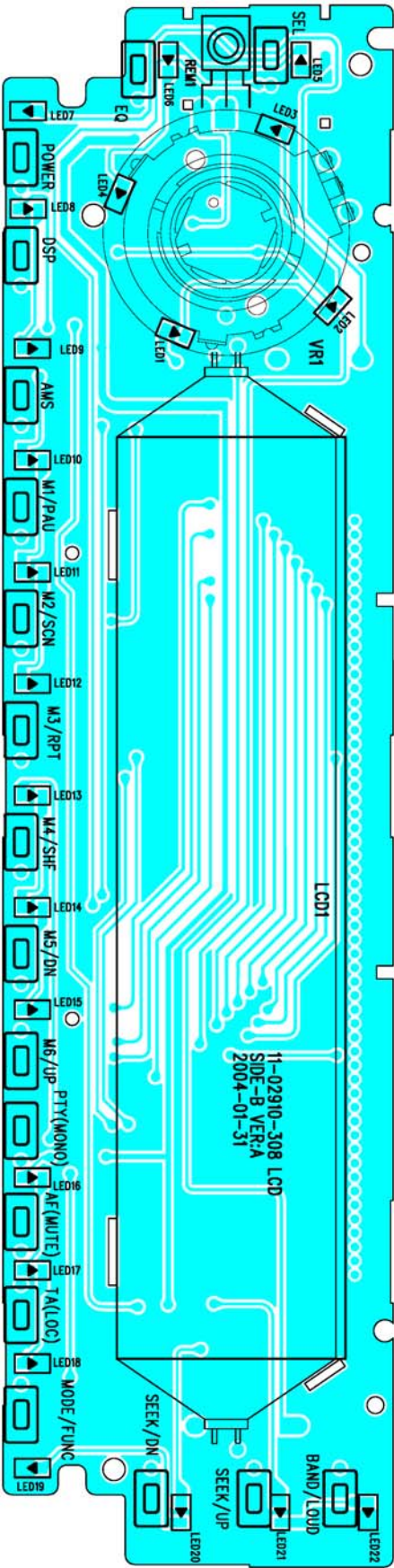


BOTTOM VIEW

ISO PCB BOARD

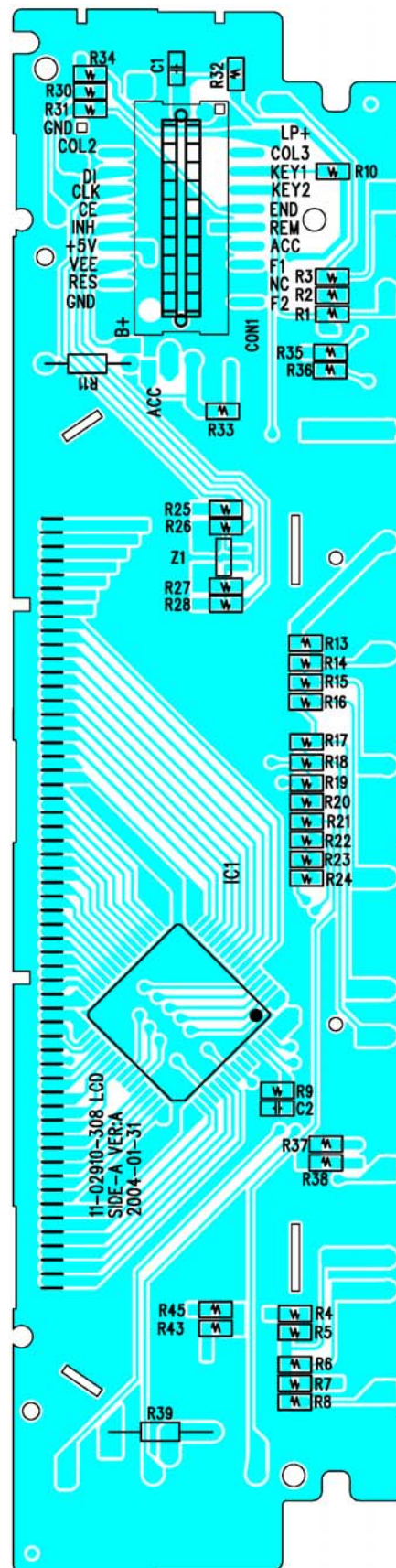


KEY BOARD



TOP VIEW

KEY BOARD

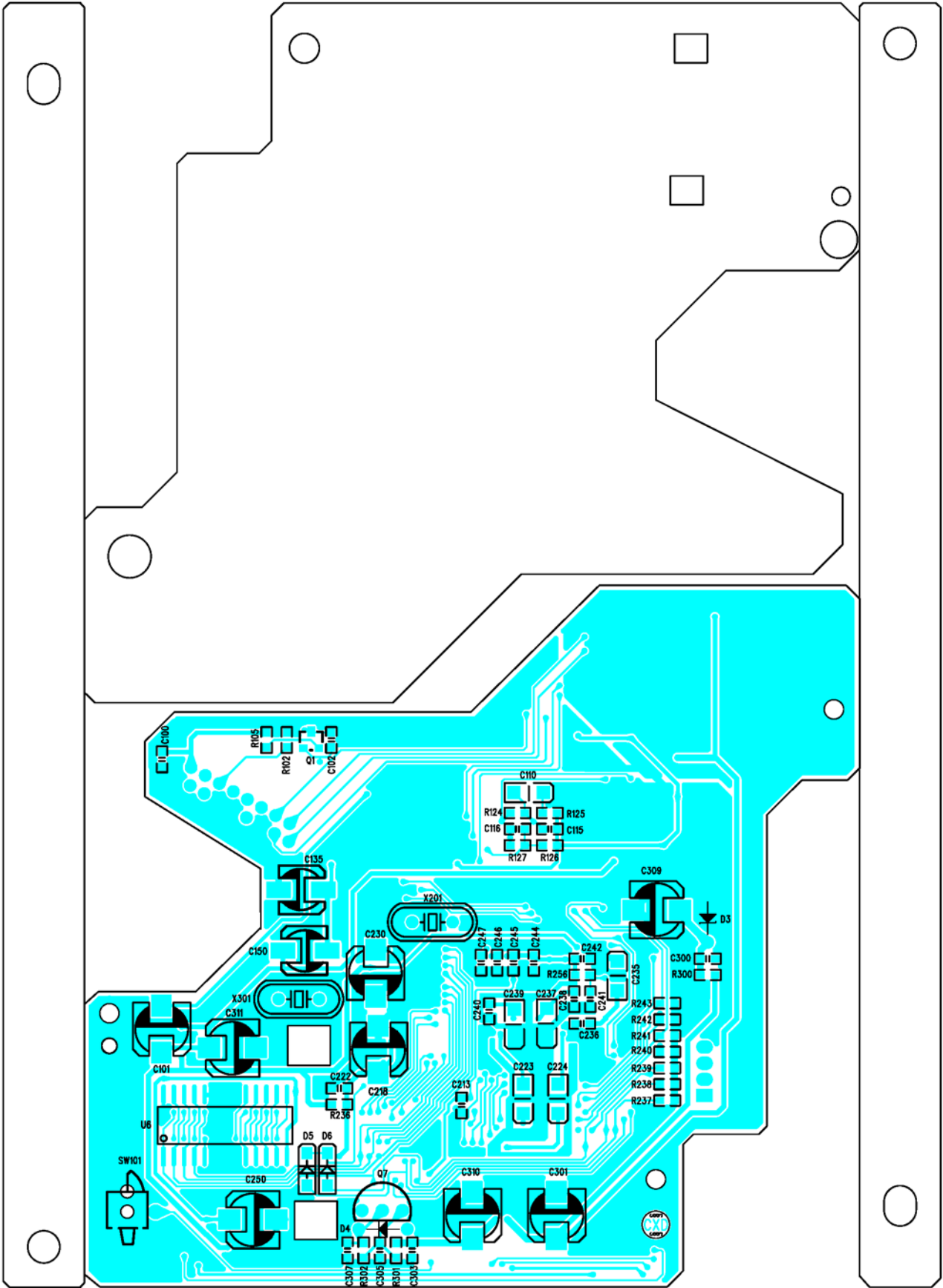


BOTTOM VIEW

12-14311-120
REV-0
2003-5-12

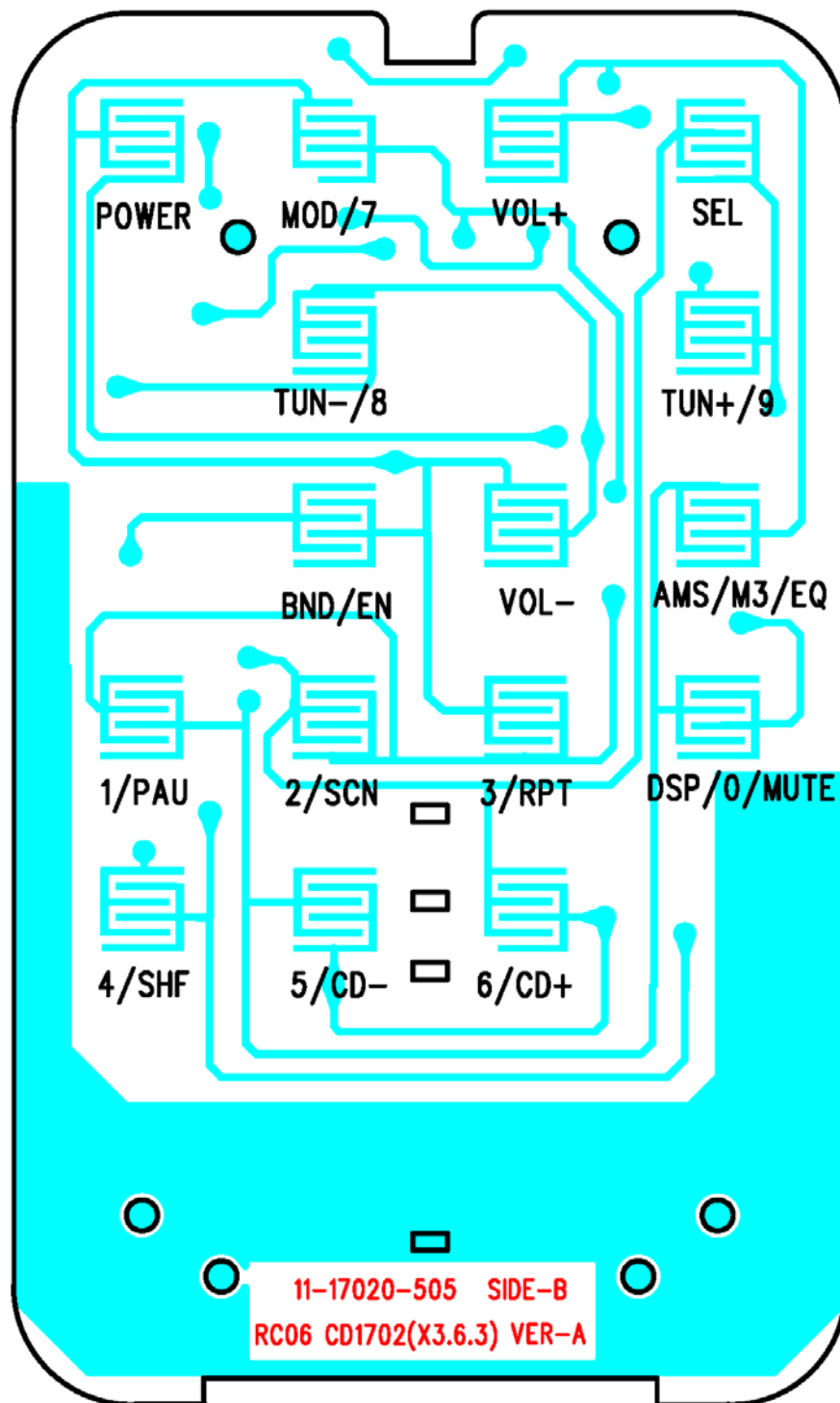
14

CD SERVO BOARD



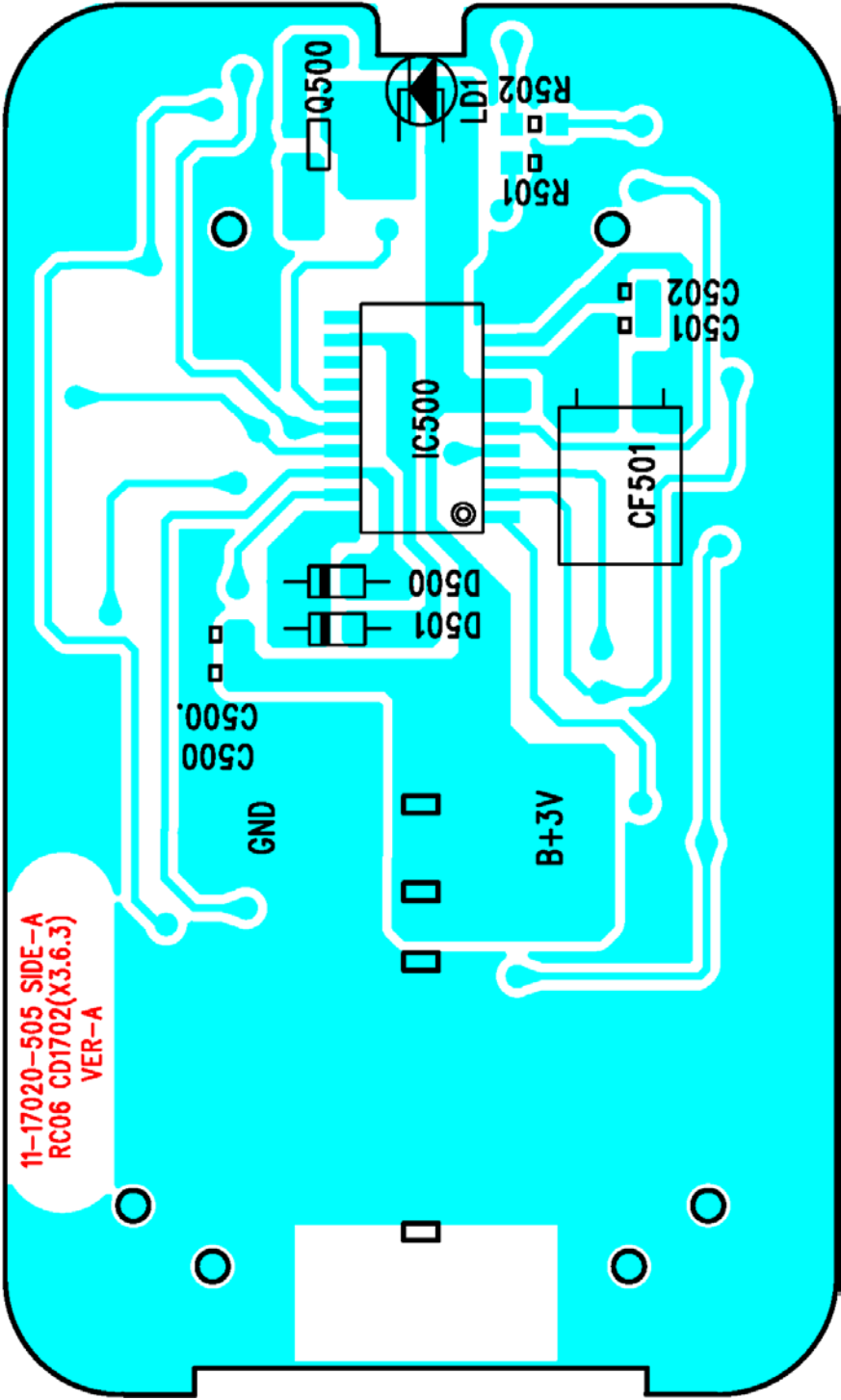
BOTTOM VIEW

REMOTE BOARD



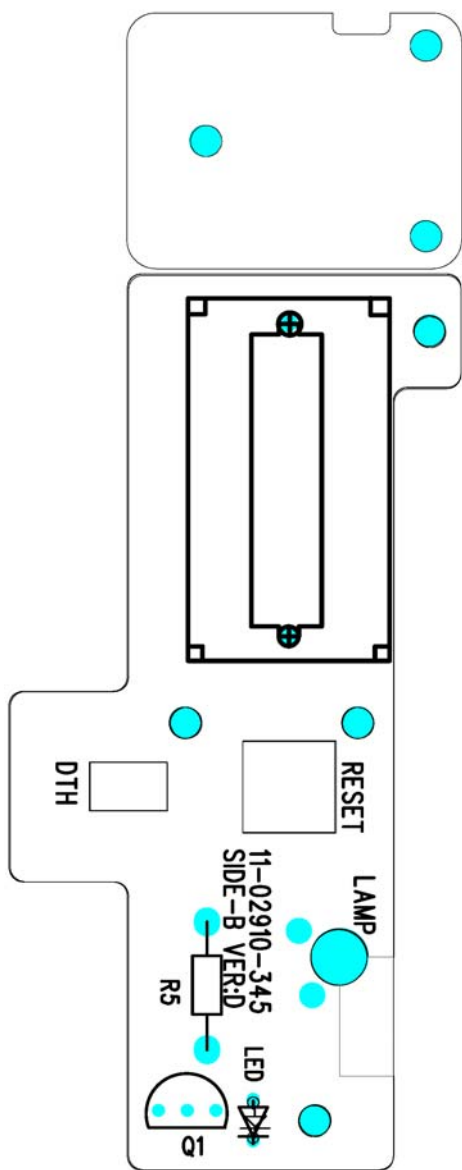
TOP VIEW

REMOTE BOARD



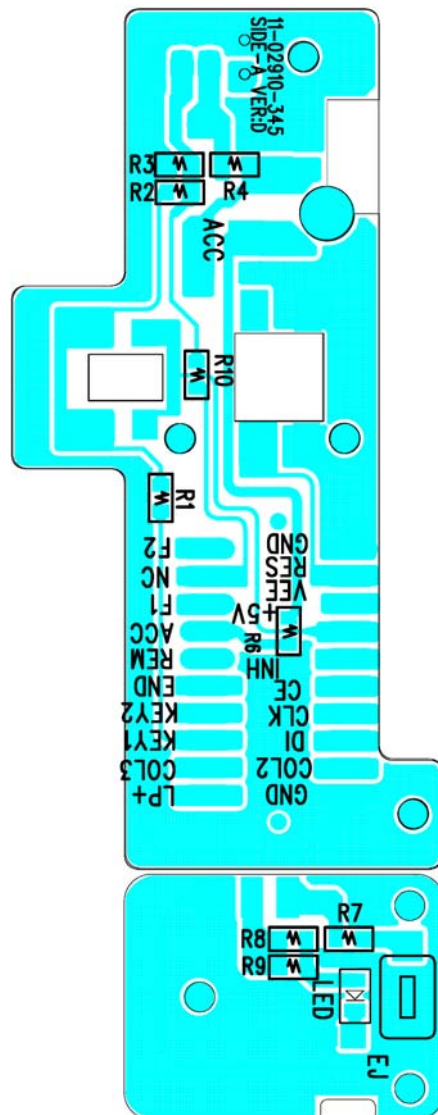
BOTTOM VIEW

FRONT & DETACHABLE BOARD



TOP VIEW

FRONT & DETACHABLE BOARD



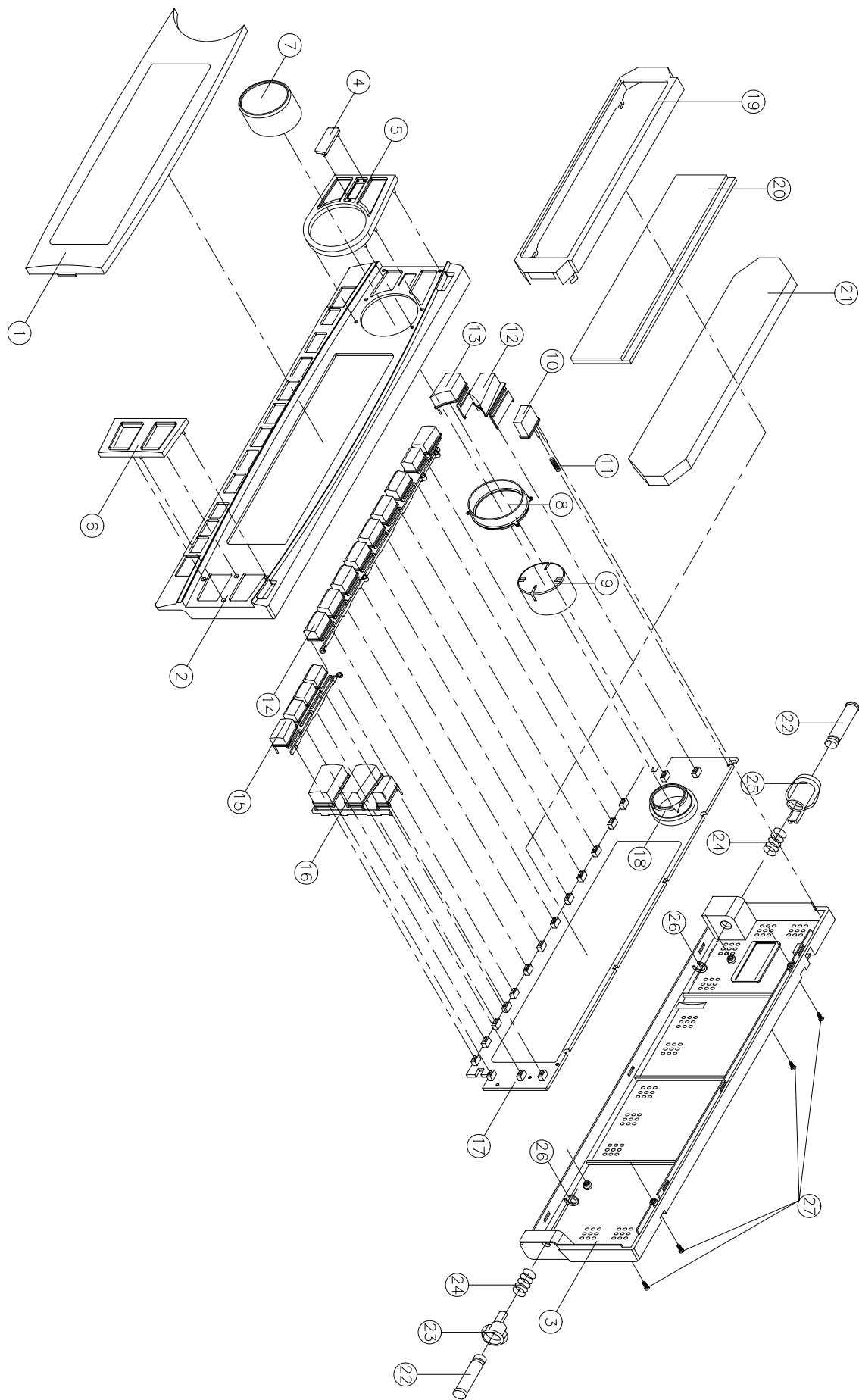
BOTTOM VIEW

SERVICE PARTS LIST

Ref. No.	Description	Parts No.
1	PANEL ASSEMBLY	RP60RM/XE -PA
2	CD MECHANISM ASSEMBLY	RP60RM -CDMECH
3	MAINBOARD ASSEMBLY	RP60RM-MB
4	RC ASSEMBLY	RP60RM/XE -RC
5	TRIM RING	RP51-16227-80D

EXPLODED VIEW

PANEL



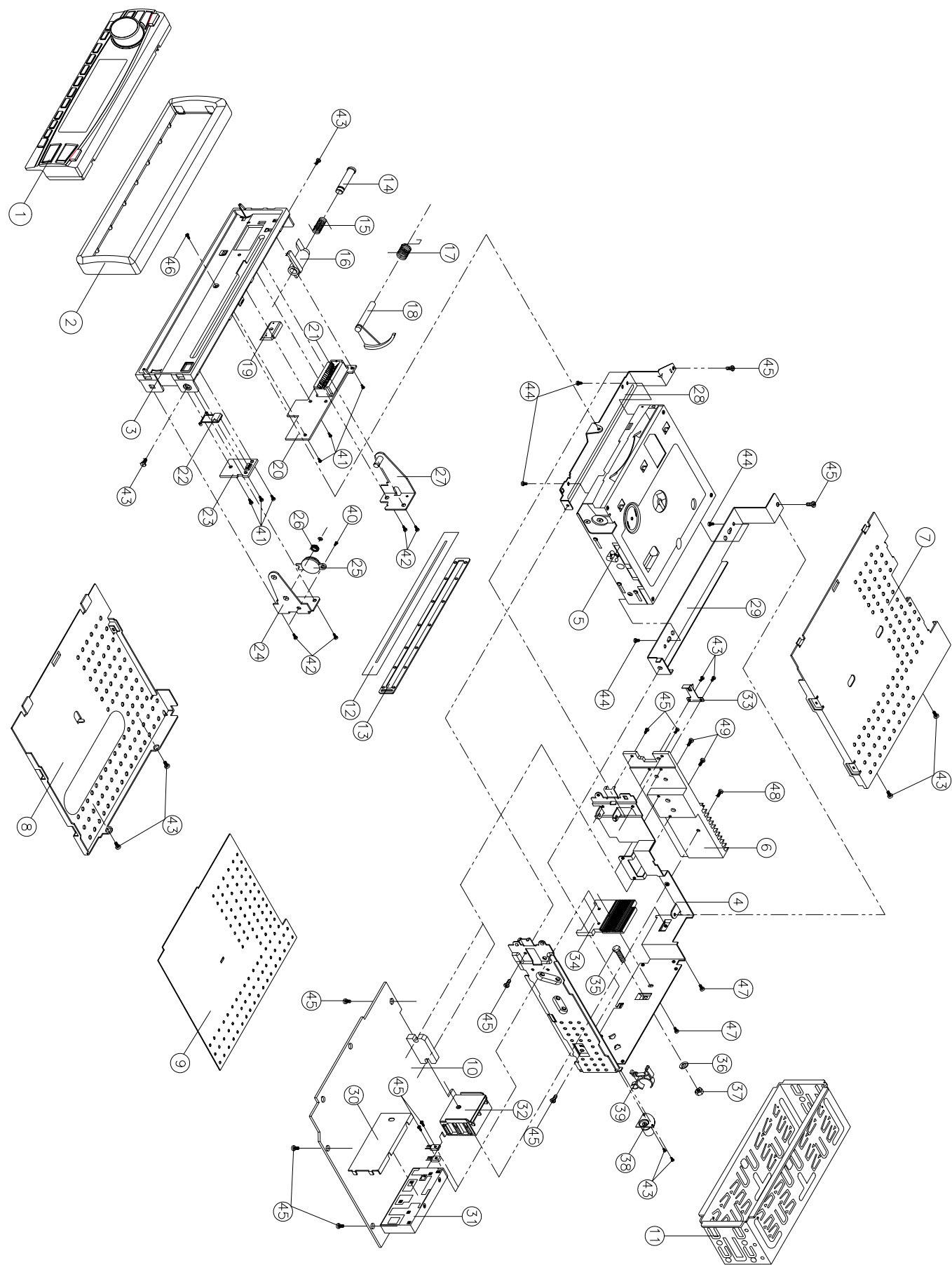
EXPLODED VIEW PARTS LIST (PANEL)

*Following part list is only for reference, not supplied as service parts

Ref. No.	Description	RS Part No.	Mfr's Part No.
1	Lens; (Mirror Effect) RDS FXD-RS60RM		RP53-29135-011
2	T. Panel (S. OPC1202) FXD1 W/SW		RP51-29121-810
3	Panel Bottom		RP51-29122-00
4	Sensor Lens (PMS 433C)		RP53-29136-11W
5	Left Panel (S. OP1202)		RP52-29123-80
6	Right Panel (S. OP1202)		RP52-29124-82B
7	Encoder (E-Silver)		RP52-29126-90E
8	Decorative Ring		RP52-29134-00
9	Ring Inside Encoder		RP52-29127-00
10	Open Key (S. OP1202)		RP52-29125-80
11	TUN BND Knob Spring		RP36-34601-00
12	SEL/SET Knob (L-Up) (S. OPC1202)		RP52-29131-82
13	EQ Key (L-Up) (S. OPC1202)		RP52-29130-81
14	Power/DISP/6Discs Key (L-Up) (S. OPC1202)		RP52-29129-83
15	PTY-MODE Key (L-Up) (S. OP1201)		RP52-29128-82
16	BAND/NANU/-SKIP Key (L-Up) (S. OP1202)		RP52-29132-81
17	Key Board		RP11-02910-308
18	Encoder SRGP200200 (ALPS)		RP18-00163-00
19	LCD Cover		RP39-E2104-01
20	CD158 LCD TN NEG Blue MASK PIN Type		RP27-01580-12Y
21	LED B.L. QB02002-09 23.5X99 WHT		RP02-A1560-09
22	Axis Post		RP34-24601-00
23	Right Side Block		RP52-E2128-00
24	Contact Spring		RP36-78008-00
25	Left Side Block		RP52-E2129-00
26	E-Ring Ø1.5X4X0.4MM		RP35-00001-00
27	Screw Ø2X8 BH/ST Black		RP40-12008-01

EXPLODED VIEW

CABINET



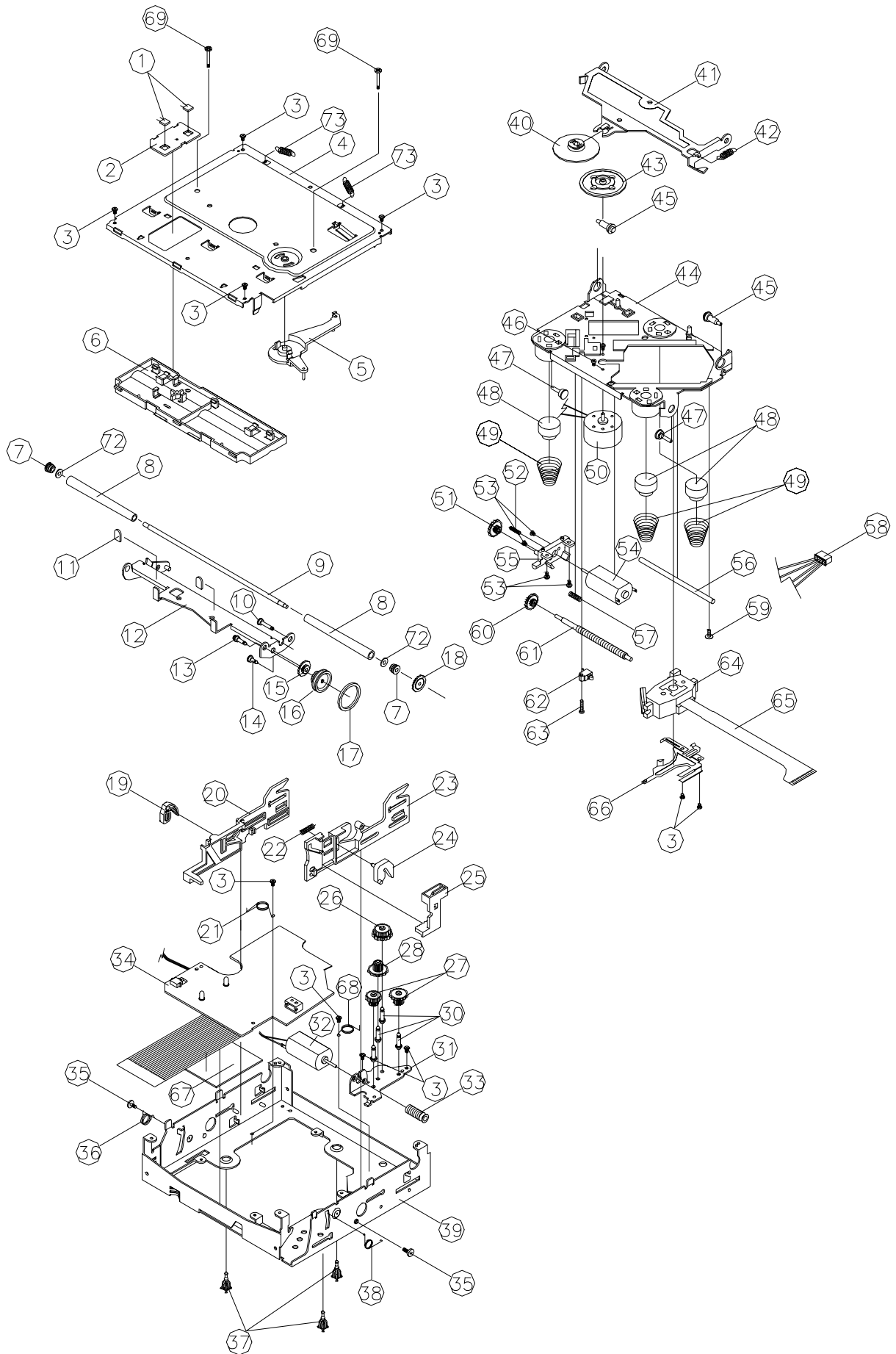
EXPLODED VIEW PARTS LIST (CABINET)

*Following part list is only for reference, not supplied as service parts

Ref. No.	Description	RS Part No.	Mfr's Part No.
1	Panel		
2	Ring (S. OPC1202)		RP51-16227-80D
3	Base (Reset + FLASHING LED)		RP51-E2125-01
4	Side Bracket (ISO)		RP61-E2003-01
5	CD MECH. CDM-1683EUK W/O Bracket (143A)		RP94-01683-11
6	Heat Sink (ISO)		RP61-E2004-00
7	Top Cabinet		RP61-B0105-01
8	Bottom Cabinet (ISO)		RP61-B0106-01
9	Main Fiber		RP35-B0101-00
10	Main Board		RP11-02911-025
11	Mounting Box (072)		RP61-07211-03
12	Shade		RP81-69005-02
13	CD Windows Sheet		RP43-E2001-00
14	Hook Shaft		RP34-D2101-00
15	Hook Spring		RP36-E2101-00
16	Hook		RP52-E2127-00
17	Push Out Spring		RP36-E2102-00
18	Panel Pole		RP52-E2126-00
19	Base B.L.		RP52-29138-00
20	Front Board		RP11-02910-345
21	20PIN Socket		RP25-F0217-20
22	EJ Knob (L-Up) (S. OPC0000)		RP52-29139-01
23	Eject Board		RP11-02910-345
24	Right Bracket		RP39-E2101-01
25	Damper Gear ASS'Y /19-24 T/Q		RP93-12246-01
26	Middle Gear (F)		RP52-E2130-00
27	Left Bracket		RP39-E2102-01
28	Deck Front Bracket		RP39-E2105-00
29	Deck Rear Bracket		RP39-B0101-00
30	FM Cover		RP39-D0507-00
31	MITSVMI Tuner FAE-347-A29		RP29-00347-02
32	36PIN ISO Socket W/RCA/CDC/AUXIN (SANYO)		RP25-12246-36
33	Spring Sheet		RP39-B0102-00
34	Heat Sink (7809/DB435) W/O Shaft		RP39-B0113-01
35	Screw Ø5X18 HH		RP40-05018-04
36	Spring Washer M5		RP35-50001-00
37	Hexagon Nut M5		RP35-40005-00
38	ISO Antenna Socket/Short W/Holder		RP39-24613-00
39	Antenna Bracket		RP52-24625-00
40	Screw Ø2X3 CH/MA Black		RP40-12003-09H

Ref. No.	Description	RS Part No.	Mfr's Part No.
41	Screw Ø2X4 BH/MS Black		RP40-12004-21
42	Screw Ø2X6 PA/ST Black		RP40-12006-20
43	Screw Ø2.6 X 4 BH/MS		RP40-02604-01
44	Screw Ø2.6 X 5 BH/TAPTITE		RP40-02605-03
45	Screw Ø2.6 X 6 BH/MS		RP40-02606-01
46	Screw Ø2.6 X 6 PH/MS Black		RP40-02606-20
47	Screw Ø2.6 X 8 BH/MS		RP40-02608-01
48	Screw Ø2.6 X 10 BH/MS		RP40-02610-01
49	Screw M2.6 X 20 PH/MS		RP40-02620-00

EXPLODED VIEW (DECK)



EXPLODED VIEW PARTS LIST (DECK)

*Following part list is only for reference, not supplied as service parts

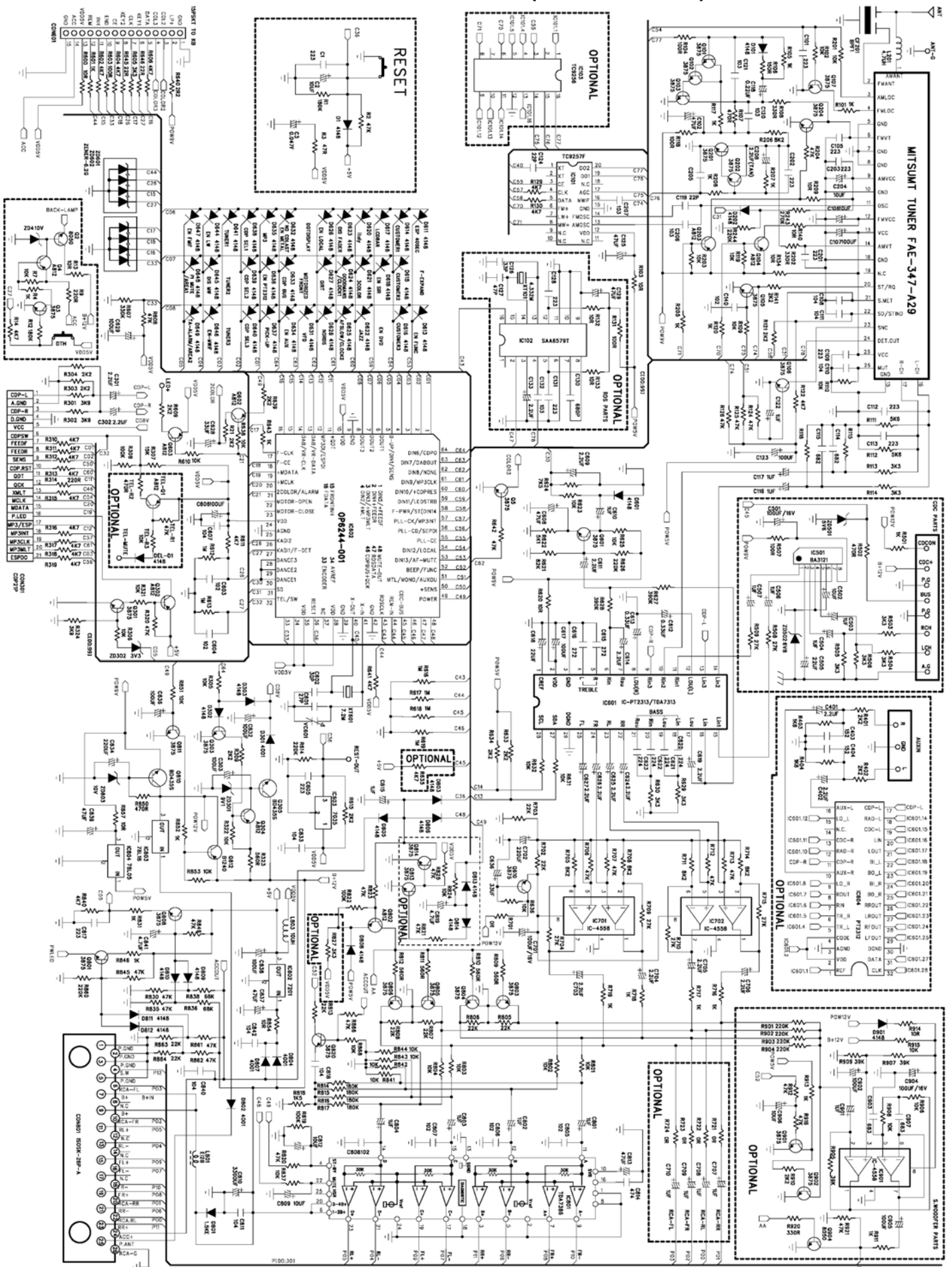
Ref. No.	Description	Parts No.	Q'ty
1	SENSOR	RPST-23G	2
2	SENSOR PCB	RPFR	1
3	SCREW	RPCA/H 0" TT 2*3	12
4	COVER-UPPER	RPSECC T1.0 1	1
5	LEVER DISC	RPPOM (F20-03) 1	1
6	GUIDE UP	RPPOM (F20-03) 2	1
7	BUSHING ROLLER	RPPOM (F20-03) 3	2
8	ROLLER DISC	RPSLICON	2
9	SHAFT ROLLER	RPSUS 303	1
10	PIN ROLLER	RPSUM24L-NI 1	1
11	PVC CAP	RPPVC	2
12	B/K ROLLER	RPSECC T1.0 2	1
13	PIN PULLEY	RPSUM24L-NI 2	1
14	PIN IDLE	RPSUM24L-NI 3	1
15	GEAR IDLE	RPPOM (F20-03) 4	1
16	GEAR PULLEY	RPPOM (F20-03) 5	1
17	BELT PULLEY	RPCR-WRT	1
18	GEAR ROLLEY	RPPOM (F20-03) 6	1
19	LOCKER (L)	RPPOM (F20-03) 7	1
20	CAM (L)	RPPOM (F20-03) 8	1
21	S/P CAM (L)	RPSUS304WPB 1	1
22	S/P RACK	RPSUS304WPB 2	1
23	CAM (R)	RPPOM (F20-03) 9	1
24	LOCKER ®	RPPOM (F20-03) 10	1
25	GEAR RACK	RPPOM (F20-03) 11	1
26	GEAR LOAD ©	RPPOM (F20-03) 12	1
27	GEAR LOAD (D)	RPPOM (F20-03) 13	1
28	GEAR LOAD (B)	RPPOM (F20-03) 14	1
29	GEAR LOAD (A)	RPPOM (F20-03) 15	1
30	PIN LOAD	RPSUM24L-NI 4	4
31	B/K GEAR	RPSECC T1.0 3	1
32	MOTOR	RPFF-050SH-11190	1
33	GEAR WORM	RPPOM(F20-03) 16	1
34	SERVO PCB ASSY	RPGLOSS EPOXY	1
35	SPECIAL SCREW	RPP/H TTS 2*2	4
36	S/P RO (L)	RPSUS304WPB 3	1
37	SUPPORT DAMPER	RPPOM (F20-03) 17	3
38	S/P RO ®	RPSUS304WPB 4	1
39	CHASSIS MAIN	RPSEEC T1.0 4	1

EXPLODED VIEW PARTS LIST - CONTINUED (DECK)

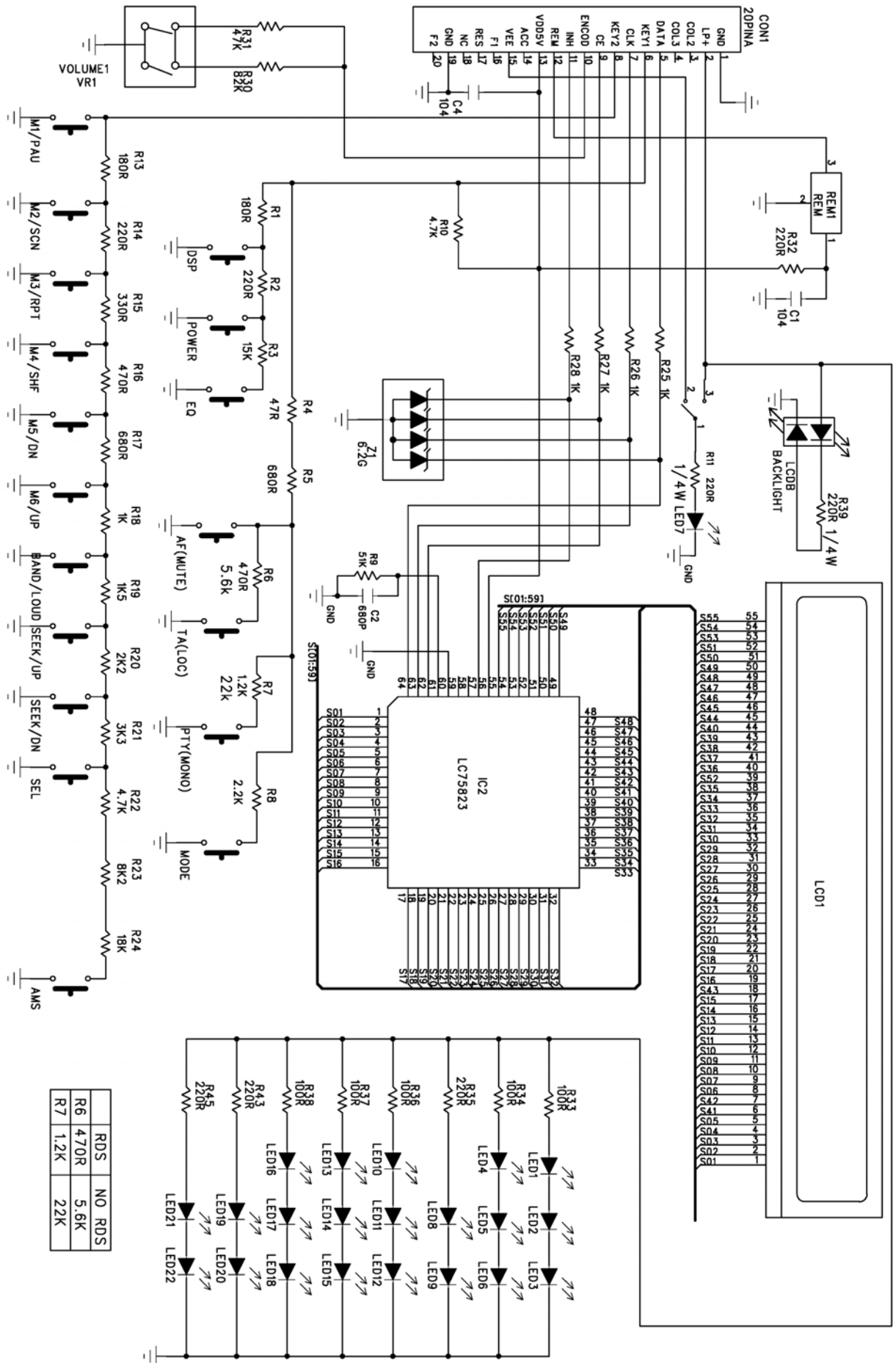
*Following part list is only for reference, not supplied as service parts

Ref. No.	Description	Parts No.	Q'ty
40	CLAMP DISC	RPPOM (F20-03) 18	1
41	HOLD CLAMPER	RPSECC T1.0 5	1
42	S/P CLAMPER	RPSUS304WPB 5	1
43	TURN TABLE	RPABS G/F 20%	1
44	BASE PU	RPPOM (F20-03)	1
45	PIN SIDE (A)	RPSUM24L-NI 5	2
46	SCREW	RPCA/H 0" M/S	2
47	PIN SIDE (B)	RPSUM24L-NI 6	2
48	DAMPER	RPBUTHYL	1
49	S/P BASE	RPSUS304WPB 6	2
50	MOTOR	RPRF400CA12265	1
51	GEAR PU (B)	RPHYTRELL 5526	1
52	GEAR PU (A)	RPPOM(F20-03) 19	1
53	SCREW	RPCA/H0" M/S 2*2	6
54	MOTOR	RPFF-050SH	1
55	HOUSING GEAR	RPPOM(F20-03) 20	1
56	SHAFT PU	RPKNN11 (PCD18)	1
57	SCREW	RPR/H(W/W)TTB2*5	1
58	4P CONT WIRE	RP1007 #28	1
59	SPRING TENSION	RPSUS304WPB 7	1
60	GEAR PU ©	RPPOM (F20-03) 21	1
61	LEAD SCREW	RPBSBM	1
62	SWITCH	RPSW-110	1
63	SCREW	RPB/H TTB1.7*8	1
64	PICK UP	RPSF-C99	1
65	FPC WIRE	RPPOLY AMIDE	1
66	SPRING PU	RPSUS T0.2	1
67	FIBER PAPER	RP-----	1
68	S/P CAM ®	RP0.55	1
69	TRANSIT SCREW	RP4.5*18	2
70	INSULATOR COVER	RPPE	1
71	SWITCH	RPSW-111	1
72	WASHER PE	RPPE	2
73	S/P BASE ®	RPSUS304WPB 8	2

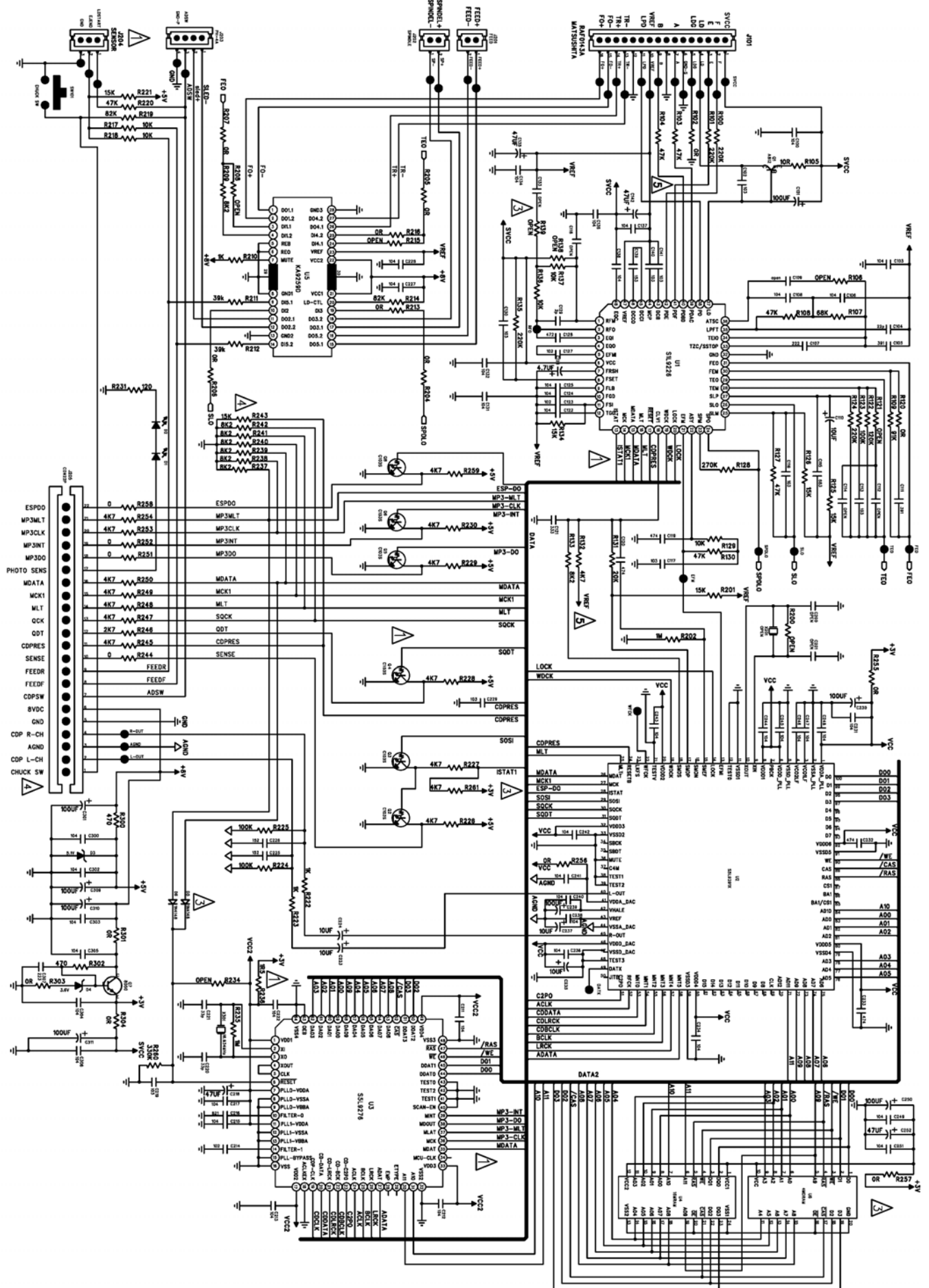
SCHEMATIC DIAGRAM (MAIN BOARD)



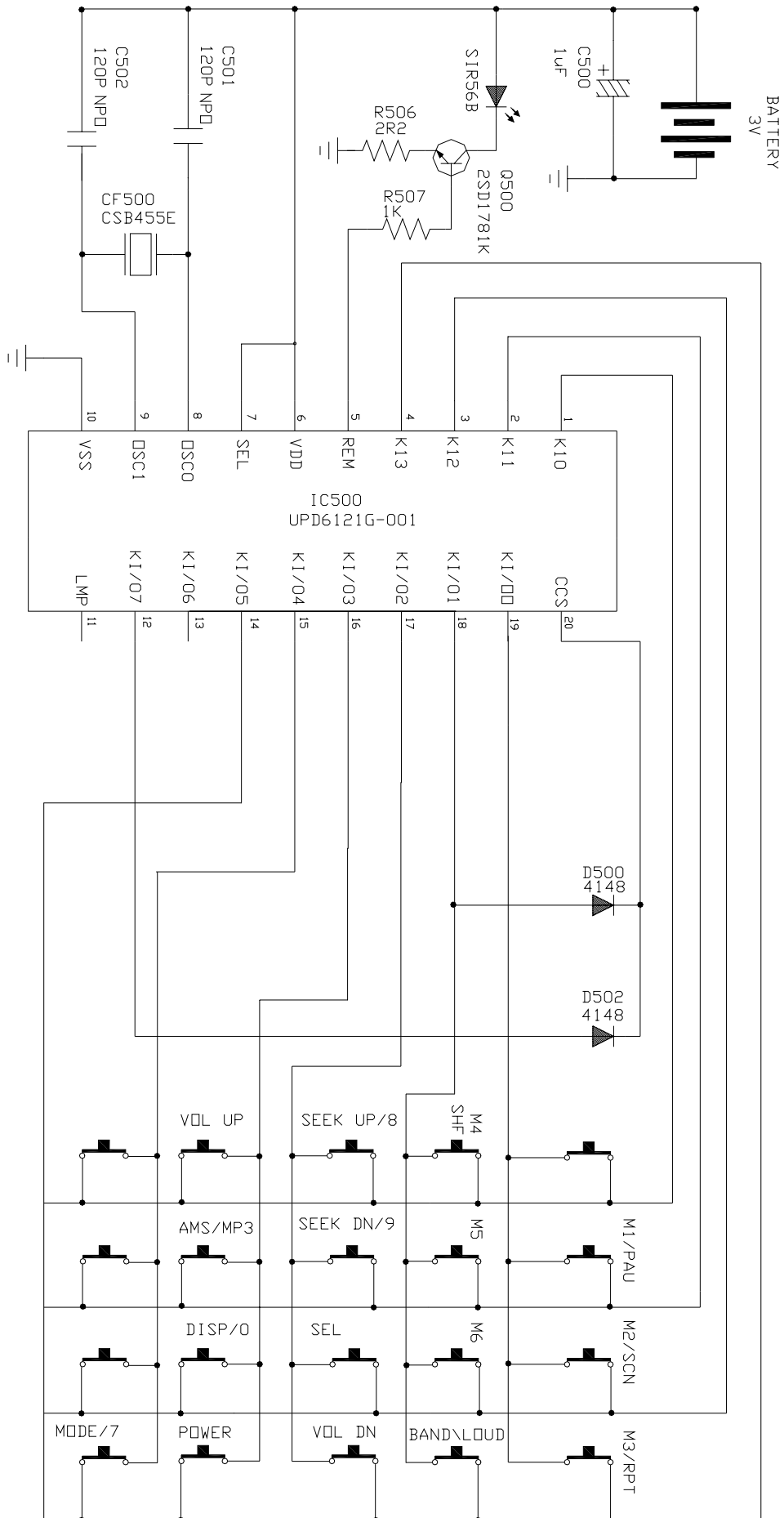
SCHEMATIC DIAGRAM (KEY BOARD)



SCHEMATIC DIAGRAM (CD SERVO BOARD)



SCHEMATIC DIAGRAM (REMOTE BOARD)



ELECTRICAL PARTS LIST

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
PC BOARD ASSY, MAIN BOARD			
Q810	RP01-00435-00S	TR. BD435 TO-126 SAMSUNG	1
Q4,104,603,802,TEL-Q1	RP01-00812-00	TR. 2SA812	5
Q812	RP01-01240-00	TRANSISTOR B1240	1
Q3,105~7,601,610,801/3~6/8,811/3/4,820	RP01-03875-07	TRANSISTOR 2SC3875G	16
IC804	RP01-07805-00	IC-REGULATOR 78L05	1
ZD601/2	RP02-00062-07	E.S.D. DIODE NNCD6.2G (5PIN)	2
D802/4/7	RP02-04001-00	DIODE IN4001	3
D1,601,624/6,632/6,647,803/5/6/8/9~14,T EL-D1	RP02-04148-00A	DIODE 1N-4148 AT. (TAPPING)	19
D801	RP02-15230-01R	DIODE 1.5KE 30A	1
ZD803	RP02-50100-00A	ZENER DIODE 10V 0.5W AT. TAPE ±2%	1
IC601	RP03-02312-00	I.C. PT2312	1
IC701/2	RP03-04558-16	I.C. BA-4558F	2
IC602	RP03-06244-00	IC OP6244-001 RDS (MP3+ESP)	1
IC802	RP03-07201-00	IC NJU7201 U50 (SOT-89) 5V	1
IC801	RP03-07560-00	IC TDA7560 (4X50W) "Y2"	1
IC803	RP03-07818-00	REGULATOR LC-78L18	1
IC101	RP03-09256-01	I.C. TC-9256F	1
XT601	RP04-00072-01	CRYSTAL HC-49U/S 7.2MHZ	1
C140,603/4,805~8	RP05-63102-01	CHIP 1000PF ±10% X7R 0603 SMT	7
C207	RP05-63103-01	CHIP 0.01µF ±10% X7R 0603 SMT	1
C108,110/1,607,811/8,833,840/2	RP05-63104-01	CHIP 0.1µF ±10% X7R 0603 SMT	9
C119,124	RP05-63220-00	CHIP CAP 22PF ±5% NPO 0603 SMT	2
C101/5/9,112/3,605,817,C1	RP05-63223-01	CHIP 0.022µF ±10% X7R 0603 SMT	8
C1,620~3	RP05-63224-01	CHIP 0.22µF ±10% X7R 0603 SMT	5
C601	RP05-63270-00	CHIP CAP 27PF ±5% NPO 0603 SMT	1
C615/6	RP07-63272-01	CHIP 2700PF ±10% X7R 0603 SMT	2
C602	RP05-63300-00	CHIP CAP 30PF ±5% NPO 0603 SMT	1
C814.	RP05-63474-02	CHIP CAP 0.47µF ±20% X7R 0603 SMT	1
C3	RP06-00473-11	PANASONIC GOLD CAP EEC50HD473H	1
C2	RP06-10106-02	E. CAP 10µF 10V (Ø4X5MM) SUP MINI	1
C836	RP06-10107-01	E. CAP 100µF 10V (Ø5X7MM MINI)	1
C107,123,606,617,838	RP06-10107-02	E. CAP 100µF 10V (6X5) SUPER MINI	5
C834/5	RP06-10227-01	E. CAP 220µF 10V (Ø6MM MINI)	2
C702	RP06-10227-02	E. CAP 220µF 10V (Ø8X5MM)	1
C102,125,308,813,837/9	RP06-10476-03	E. CAP 47µF 10V (6X5)	6
C106,809,812	RP06-16106-02E	E. CAP 10µF/16V (Ø4X5MM RC3)	3
C701,837	RP06-16107-04	E. CAP 100µF/16V (Ø6X5MM)	2
C122,618	RP06-16226-02	E. CAP 22µF 16V (Ø5X5MM)	2

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
C636	RP06-16336-02	E. CAP 33μF 16V (Ø6.3X5MM)	1
C810	RP06-16338-00S	E. CAP 3300μF/16V 105°C	1
C819,841	RP06-16475-02	E. CAP 4.7μF 16V (Ø3.5X5MM)	2
C116/7,610,801~5	RP06-50105-03	E. CAP 1μF 50V (Ø4X5 MM)	8
C611/4/9,609,624~7,703~6	RP06-50225-02	E. CAP 2.2μF 50V (4X5)	12
C612/3	RP06-50334-03	E. CAP 0.33μF 50V (Ø4X5MM)	2
R640	RP07-05022-10	RES. 2.2Ω 1/2W	1
R854	RP07-05100-00	RES. 10Ω 1/4W	1
R134,600,620,857	RP07-05100-16A	RES. 10Ω 1/16W (TAPPING)	4
R651	RP07-05101-00	RES. 100Ω 1/4W	1
R118	RP07-05101-16A	RES. 100Ω 1/16W (TAPPING)	1
R653	RP07-05102-16A	RES. 1kΩ 1/16W(TAPPING)	1
R837	RP07-05103-16A	RES. 10kΩ 1/16W(TAPPING)	1
R645/6	RP07-05220-16A	RES. 22Ω 1/16W (TAPPING)	2
R1	RP07-05472-16A	RES. 4.7kΩ 1/16W (TAPPING)	1
R701,828/9,RA02~7,	RP07-63000-00	CHIP RES. 0Ω ±5% 0603 SMT	9
R103,140	RP07-63100-00	CHIP RES. 10Ω ±5% 0603 SMT	2
RA01	RP07-63101-00	CHIP RES. 100Ω ±5% 0603 SMT	1
R101,120,601/3,643,716~9,831,852	RP07-63102-00	CHIP RES. 1kΩ ±5% 0603 SMT	11
R4,7,102/9,110/9,623/5,631/2/6,801~4,83	RP07-63103-00	CHIP RES. 10kΩ ±5% 0603 SMT	23
8,841~4,851/3,TEL-R1/3,			
R12,819,822	RP07-63104-00	CHIP RES. 100kΩ ±5% 0603 SMT	3
R612/3/6/7/9	RP07-63105-00	CHIP RES. 1MΩ ±5% 0603 SMT	5
R818	RP07-63152-00	CHIP RES. 1.5kΩ ±5% 0603 SMT	1
R827	RP07-63154-00	CHIP RES. 150kΩ ±5% 0603 SMT	1
R1,814~7	RP07-63184-00	CHIP RES. 180kΩ ±5% 0603 SMT	5
R121,633/4,827	RP07-63222-00	CHIP RES. 2.2kΩ ±5% 0603 SMT	4
R702/3,805~8,813,863/4	RP07-63223-00	CHIP RES. 22kΩ ±5% 0603 SMT	9
R614,626,860	RP07-63224-00	CHIP RES. 220kΩ ±5% 0603 SMT	3
R704/9,710/5	RP07-63273-00	CHIP RES. 27kΩ ±5% 0603 SMT	4
R108,846	RP07-63331-00	CHIP RES. 330Ω ±5% 0603 SMT	2
R113/4,605,629/30,827	RP07-63332-00	CHIP RES. 3.3kΩ ±5% 0603 SMT	6
R849	RP07-63333-00	CHIP RES. 33kΩ ±5% 0603 SMT	1
R607	RP07-63334-00	CHIP RES. 330kΩ ±5% 0603 SMT	1
R627/8	RP07-63394-00	CHIP RES. 390kΩ ±5% 0603 SMT	2
R3	RP07-63470-00	CHIP RES. 47Ω ±5% 0603 SMT	1
R850,TEL-R2	RP07-63471-00	CHIP RES. 470Ω ±5% 0603 SMT	2
R122/9,130,602/4/6,611,840	RP07-63472-00	CHIP RES. 4.7kΩ ±5% 0603 SMT	8
R2,124~6,608,641,706/7,712/3,820/1/3/5,	RP07-63473-00	CHIP RES. 47kΩ ±5% 0603 SMT	20
830/5,845,861/2/6			
R622	RP07-63512-00	CHIP RES. 5.1k	1

ELECTRICAL PARTS LIST – CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
R809~12	RP07-63561-00	CHIP RES. 560Ω ±5% 0603 SMT	4
R836/8	RP07-63683-00	CHIP RES. 68kΩ ±5% 0603 SMT	2
R624	RP07-63752-00	CHIP RES. 7.5kΩ ±5% 0603 SMT	1
R705/8,711/4	RP07-63822-00	CHIP RES. 8.2kΩ ±5% 0603 SMT	4
R621	RP07-63823-00	CHIP RES. 82kΩ ±5% 0603 SMT	1
L803	RP09-70100-01	MICRO INDUCTOR 10UH AXIAL TYPE	1
CF201	RP09-80006-00	BAND PASS FILTER GFMB6-T	1
ISO PCB	RP11-01000-435	ISO PCB D/S 1.2X40X42 (SANYO)	1
MB	RP11-02911-025	PCB SIR-291 YMB 182X151X1.6MM	1
L801	RP15-00003-05	TDROIO COIL L=105μH Ø1.0MM	1
CON	RP25-12246-36	36PIN ISO SOCKET W/RCA/CDC/AUXIN	1
	RP25-14368-08	ISO LINE IN/SW SOCKET 200MM	1
PC BOARD ASSY, MAIN BOARD SUB-W SECTION			
Q901/2	RP01-03875-07	TRANSISTOR 2SC3875G	2
Q904	RP01-08050-03	TR. 8050C TO-92-B	1
D613,901	RP02-04148-00A	DIODE 1N-4148 AT. (TAPPING)	2
IC901	RP03-04558-16	I.C. BA4558F	1
C903/7	RP05-63683-01	CHIP 0.068μF ±10% X7R 0603 SMT	2
C902/5	RP06-10107-02	E. CAP 100μF 10V (6X5) SUPER MINI	2
C906	RP06-16106-02E	E. CAP 10μF/16V (Ø4X5MM RC3)	1
C904	RP06-16107-04	E. CAP 100μF 16V (Ø6X5MM)	1
C901	RP06-50105-03	E. CAP 1μF 50V (Ø4X5MM)	1
R902	RP07-05224-16A	RES. 220kΩ 1/16W (TAPPING)	1
R914	RP07-63100-00	CHIP RES 10Ω ±5% 0603 SMT	1
R913	RP07-63102-00	CHIP RES 1kΩ ±5% 0603 SMT	1
R906/8,915	RP07-63103-00	CHIP RES 10kΩ ±5% 0603 SMT	3
R910	RP07-63222-00	CHIP RES 2.2kΩ ±5% 0603 SMT	1
R901/3/4	RP07-63224-00	CHIP RES 220kΩ ±5% 0603 SMT	3
R920	RP07-63331-00	CHIP RES 330Ω ±5% 0603 SMT	1
R905/7/9	RP07-63393-00	CHIP RES 39kΩ ±5% 0603 SMT	3
R912/6,921	RP07-63473-00	CHIP RES 47kΩ ±5% 0603 SMT	3
R911	RP07-63681-00	CHIP RES 380Ω ±5% 0603 SMT	1
PC BOARD ASSY, MAIN BOARD FM TUNER SECTION			
Q101~3,204	RP01-03875-07	TRANSISTOR 2SC3875G	4
D101,641	RP02-04148-00A	DIODE IN-4148 AT. (TAPPING)	2
IC102	RP03-06579-00	IC SAA-6579T	1
XT101	RP04-00433-00M	C. 4.332MHZ HC-49U 30PPM 22PF	1
C120/1,132	RP05-63103-01	CHIP 0.01μF ±10% X7R 0603 SMT	3
C128,131	RP05-63223-01	CHIP 0.022μF ±10% X7R 0603 SMT	2
C126	RP05-63330-00	CHIP CAP 33PF ±5% NPO 0603 SMT	1
C127	RP05-63470-00	CHIP CAP 47PF ±5% NPO 0603 SMT	1

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
C130	RP05-63681-00	CHIP CAP 680PF $\pm 5\%$ NPO 0603 SMT	1
C114/5	RP05-63682-01	CHIP 6800PF $\pm 10\%$ X7R 0603 SMT	2
	RP06-10476-03	E. CAP 47 μ F 10V (6X5)	1
C118	RP06-50224-02	E. CAP 0.22 μ F 50V ($\varnothing$ 3X5MM)	1
C133	RP06-50225-02	E. CAP 2.2 μ F 50V (4X5)	1
R104	RP07-05101-16A	RES. 100 Ω 1/16W (TAPPING)	1
R141	RP07-05222-16A	RES. 2.2k Ω 1/16W (TAPPING)	1
R132/3	RP07-63100-00	CHIP RES 10 Ω $\pm 5\%$ 0603 SMT	2
R131	RP07-63101-00	CHIP RES 100 Ω $\pm 5\%$ 0603 SMT	1
R105,117	RP07-63102-00	CHIP RES 1k Ω $\pm 5\%$ 0603 SMT	2
R106	RP07-63151-00	CHIP RES 150 Ω $\pm 5\%$ 0603 SMT	1
R107	RP07-63471-00	CHIP RES 470 Ω $\pm 5\%$ 0603 SMT	1
R204	RP07-63473-00	CHIP RES 47k Ω $\pm 5\%$ 0603 SMT	1
R111/2	RP07-63562-00	CHIP RES 5.6k Ω $\pm 5\%$ 0603 SMT	2
TUNER	RP29-00347-02	MITSUMT TUNER FAE-347-A29	1
PC BOARD ASSY, MAIN BOARD AM TUNER SECTION			
Q203	RP01-00812-00	TR. 2SA812	1
Q201/2	RP01-03875-07	TRANSISTOR 2SC3875G	2
D641/6	RP02-04148-00A	DIODE IN-4148 AT. (TAPPING)	2
C208	RP05-16225-00	TAN CAP. 2.2 μ F 16V	1
C206	RP05-63103-01	CHIP 0.01 μ F $\pm 10\%$ X7R 0603 SMT	1
C201~3	RP05-63223-01	CHIP 0.022 μ F $\pm 10\%$ X7R 0603 SMT	3
C204	RP06-16106-02E	E. CAP. 10 μ F/16V (4X5MM RC3)	1
R209	RP07-05100-16A	RES 10 Ω 1/16W (TAPPING)	1
R205/7/8	RP07-63102-00	CHIP RES 1k Ω $\pm 5\%$ 0603 SMT	3
R201/3	RP07-63103-00	CHIP RES 10k Ω $\pm 5\%$ 0603 SMT	2
R202	RP07-63331-00	CHIP RES 330 Ω $\pm 5\%$ 0603 SMT	1
R206	RP07-63822-00	CHIP RES 8.2k Ω $\pm 5\%$ 0603 SMT	1
L201	RP09-70470-04	M. INDUCTOR AL03TO4R7 (AXIAL)	1
PC BOARD ASSY, KEY BOARD			
Z1	RP02-00062-07	E.S.D. DIODE NNCD6.2G (5PIN)	1
LED7	RP02-01112-02F	SMD LED BR1112H RED "STANLEY"	1
LED1~6,8~22	RP02-01112-05M	SMD LED BL-HW135A 0805 PURE GREN	21
	RP02-29101-09	LED B.L 23.5X99 WHT (FOR RS60)	1
IC2	RP03-75823-00	IC LC75823ED	1
C1,4	RP05-63104-01	CHIP 0.1 μ F $\pm 20\%$ X7R 0603 SMT	2
C2	RP05-63681-01	CHIP 680P $\pm 5\%$ NPO 0603 SMT	1
R11,39	RP07-05221-00	RES 220 Ω 1/4W	2
R18,25~8	RP07-63102-00	CHIP RES 1k Ω $\pm 5\%$ 0603 SMT	5
R33/4/6/8	RP07-63121-00	CHIP RES 120 Ω $\pm 5\%$ 0603 SMT	4
R19	RP07-63152-00	CHIP RES 1.5k Ω $\pm 5\%$ 0603 SMT	1

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
R3	RP07-63153-00	CHIP RES 15kΩ ±5% 0603 SMT	1
R1,13	RP07-63181-00	CHIP RES 180Ω ±5% 0603 SMT	2
R24	RP07-63183-00	CHIP RES 18kΩ ±5% 0603 SMT	1
R2,14,32	RP07-63221-00	CHIP RES 220Ω ±5% 0603 SMT	3
R8,20	RP07-63222-00	CHIP RES 2.2kΩ ±5% 0603 SMT	2
R7	RP07-63223-00	CHIP RES 22kΩ ±5% 0603 SMT	1
R35,43/5	RP07-63273-00	CHIP RES 27kΩ ±5% 0603 SMT	3
R15	RP07-63331-00	CHIP RES 330Ω ±5% 0603 SMT	1
R21	RP07-63332-00	CHIP RES 3.3kΩ ±5% 0603 SMT	1
R4	RP07-63470-00	CHIP RES 47Ω ±5% 0603 SMT	1
R16	RP07-63471-00	CHIP RES 470Ω ±5% 0603 SMT	1
R22	RP07-63472-00	CHIP RES 4.7kΩ ±5% 0603 SMT	1
R31	RP07-63473-00	CHIP RES 47kΩ ±5% 0603 SMT	1
R9	RP07-63513-00	CHIP RES 51kΩ ±5% 0603 SMT	1
R6	RP07-63562-00	CHIP RES 5.6kΩ ±5% 0603 SMT	1
R5,17	RP07-63681-00	CHIP RES 680Ω ±5% 0603 SMT	2
R23	RP07-63822-00	CHIP RES 8.2kΩ ±5% 0603 SMT	1
R30	RP07-63823-00	CHIP RES 82kΩ ±5% 0603 SMT	1
KB	RP11-02910-308	CD291 LCD KB D/S 1.2X42.5X182.8MM	1
AM(MUTE),AMS,BAND/LOUD,DSP,EQ,M1/PAU,M2/SCN,M3/RPT,M4/SHF,M5/DN,M6/UP,MODE,POWER	RP16-01107-00K	TACT SW. DCT/1101 4.3MM 2 PIN	18
VR1	RP18-00163-00	ENCODER SRGP200200 (ALPS)	1
CON1	RP25-M0217-20	20PIN PLUG	1
LCD	RP27-01580-12Y	CD158 LCD TN NEG BLUE MASK PIN TYPE	1
REM	RP29-01201-00	IR RECEIVER GP1UM261XK (SHARP)	1
PC BOARD ASSY, SDK/CD SERVO BOARD			
Q2~6,8	RP01-00103-000	TR. KRC103S	6
Q305	RP01-00435-00S	TR BD435S NPN TO-126 FAIRCHLD	1
Q1,302/4	RP01-00812-00	TR. 2SA812	3
Q7	RP01-01225-13	TRANSISTOR 2SD1225M	1
Q301/3	RP01-03875-07	TRANSISTOR 2SC3875G	1
D1,2	RP02-00144-00	IR LED MIE 144A1MC	2
D301	RP02-04001-00	DIODE IN4001	1
D5,6	RP02-04148-02	DIODE CHIP RLS4148 1206 ROHM	2
D302/3,635,611 (MP3+ESP)	RP02-04148-00A	DIODE IN-4148 AT. (TAPPING)	4
ZD302	RP02-50033-00A	ZENER DIODE 3.3V 0.5W AT.	1
D4	RP02-50036-00	ZENER DIODE 3.6V ±5% 0.5W	1
D3	RP02-50051-00	ZENER DIODE 5.1V ±5% 0.5W	1
ZD301	RP02-50091-00	ZENER DIODE 9.1V ±5% 0.5W AT.	1
D7	RP02-50151-00	5.1V ZENER DIODE (SMD1206)	1

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
U1	RP03-09226-00	IC SIL 9226	1
U5	RP03-09259-00	IC KA9259D	1
U3	RP03-09276-00	IC S5L 9276X01-EORN	1
U2	RP03-09291-00	IC S5L9291X01-EORO (CDRW+MP3+ESP)	1
U4	RP03-M0404-04	IC 4X4 DRAM SI17400B (FUJITSU DICE)	1
X301	RP04-00169-00	CRYSTAL HC-49/US 16.934MHZ	1
C10,126,223/4,235/7/9	RP05-16106-10	TAN CAP 10UF 16V ±10% (4.5X7)	7
C129	RP05-63020-00	CHIP CAP 2PF ±5% NPO 0603 SMT	1
C127,214	RP05-63102-01	CHIP 1000PF ±10% X7R 0603 SMT	2
C102,113/6/7,130,140/1,219,229	RP05-63103-01	CHIP 0.01µF ±10% X7R 0603 SMT	9
C100/3/6/8,119,122/4/5,131/2/4/6~8,211~3/5/7,222/7/8,231/4/6/8,240~9,253,300/2~6/8	RP05-63104-01	CHIP 0.1µF ±10% X7R 0603 SMT	44
C225/6	RP05-63152-01	CHIP 1500PF ±10% X7R 0603 SMT	2
C139	RP05-63153-01	CHIP 0.015µF ±10% X7R 0603 SMT	1
C104	RP05-63220-00	CHIP CAP 22PF ±5% NPO 0603 SMT	1
C107,123	RP05-63222-01	CHIP 2200PF ±10% X7R 0603 SMT	2
C307	RP05-63223-01	CHIP 0.022µF ±10% X7R 0603 SMT	1
C220/1	RP05-63330-00	CHIP CAP 33PF ±5% NPO 0603 SMT	2
C121	RP05-63333-01	CHIP 0.033µF ±10% 0603 SMT	1
C105,111	RP05-63391-00	CHIP 390PF ±5% NPO 0603 SMT	2
C128	RP05-63472-01	CHIP 4700PF ±10% X7R 0603 SMT	1
C120,232/3	RP05-63474-00	CHIP CAP 0.47µF ±5% (+80/-20%)	3
C115	RP05-63683-01	CHIP 0.068µF ±10% 0603 SMT	1
C216	RP05-63821-00	CHIP 820PF ±5% 0603 SMT	1
C303,832	RP06-10107-02	E. CAP 100µF 10V (6X5) SUPER MINI	2
C101,202/9,218,301/9,310/1	RP06-16107-54	E. CAP CHIP 100µF 16V Ø6.3X5.5	8
C135,142	RP06-16476-54	E. CAP CHIP 47µF 16V Ø5X5.5	2
C301/2	RP06-50225-02	E. CAP 2.2µF 50V (4X5)	2
R301	RP07-05047-00	RES. 4.7Ω 1/4W	1
R305	RP07-05103-16A	RES. 10kΩ 1/16W (TAPPING)	1
R102,120,204~7,213/6,244,251/2/6/8,303	RP07-63000-00	CHIP RES 0Ω 0603 SMT	14
R236,255,264,304	RP07-63015-00	CHIP RES 1.5Ω 0603 SMT	4
R105	RP07-63100-00	CHIP RES 10Ω ±5% 0603 SMT	1
R210,222/3	RP07-63102-00	CHIP RES 1kΩ ±5% 0603 SMT	3
R129/30,136/7,217/8,306,321/2	RP07-63103-00	CHIP RES 10kΩ ±5% 0603 SMT	9
R122/3,224/5	RP07-63104-00	CHIP RES 100kΩ ±5% 0603 SMT	4
R202,235	RP07-63105-00	CHIP RES 1MΩ ±5% 0603 SMT	2
R125/6,134,201,221,243	RP07-63153-00	CHIP RES 15kΩ ±5% 0603 SMT	6
R231	RP07-63181-00	CHIP RES 180Ω ±5% 0603 SMT	1
R131	RP07-63203-00	CHIP RES 20kΩ ±5% 0603 SMT	1

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
R302,314,323	RP07-63221-00	CHIP RES 220Ω ±5% 0603 SMT	3
R303/4/9	RP07-63222-00	CHIP RES 2.2kΩ ±5% 0603 SMT	3
R100/1,124,135	RP07-63224-00	CHIP RES. 220kΩ ±5% 0603 SMT	4
R246	RP07-63272-00	CHIP RES. 2.7kΩ ±5% 0603 SMT	1
R128	RP07-63274-00	CHIP RES. 270kΩ ±5% 0603 SMT	1
R220	RP07-63333-00	CHIP RES 33kΩ ±5% 0603 SMT	1
R260,308	RP07-63334-00	CHIP RES. 330kΩ	2
R301/2,324	RP07-63392-00	CHIP RES 3.9kΩ ±5% 0603 SMT	3
R211/2	RP07-63393-00	CHIP RES 39kΩ ±5% 0603 SMT	2
R263,300	RP07-63471-00	CHIP RES 470Ω ±5% 0603 SMT	2
R132,226~30,245~50/3/4/9,261,310~3/5~9	RP07-63472-00	CHIP RES 4.7kΩ ±5% 0603 SMT	24
R103/4/8,127,307,320	RP07-63473-00	CHIP RES. 47kΩ ±5% 0603 SMT	6
R107	RP07-63683-00	CHIP RES. 68kΩ ±5% 0603 SMT	1
R133,209,237~42	RP07-63822-00	CHIP RES. 8.2kΩ ±5% 0603 SMT	8
R214/9	RP07-63823-00	CHIP RES 82kΩ ±5% 0603 SMT	2
R109	RP07-63913-00	CHIP RES. 91kΩ ±5% 0603 SMT	1
	RP12-14311-120	PCB CDX3.20.11.4 SERVO D/S	1
SW101	RP16-00033-01	MICRO SWITCH MPU10371MLBO (MIC)	1
PC BOARD ASSY, REMOTE BOARD			
Q500	RP01-01781-18	TR. 2SD1781K-R "ROHM"	1
LD1	RP02-00334-00	INFRARED LED Ø3MM MIE-334A4	1
D500/1	RP02-04148-00	DIODE IN-4148	2
IC500	RP03-00101-00	IC S0101 (SGNEC)	1
C504	RP05-03105-10M	CHIP CAP KC20E1C105M-TS	1
C501/2	RP05-03121-06	CHIP CAP. 120PF (NPO)	2
R501	RP07-05022-54	CHIP RES. 2.2Ω 1/10W	1
R502	RP07-05102-54	CHIP RES 1kΩ 1/10W	1
CF501	RP09-50455-05J	CER RESONATOR ZTB455E	1
PCB	RP11-17020-505	CD1702 RC06 D/S 1.2X80.3X51.5 SANYO	1
PC BOARD ASSY, MAIN BOARD LINE OUT SECTION			
C707~10	RP06-50105-03	E.CAP 1μF 50V (Ø4X5MM)	4
R721~4	RP07-63000-00	CHIP RES. 0Ω ±5% 0603 SMT	4
PC BOARD ASSY, MAIN BOARD TONE SECTION			
D634	RP02-04148-00A	DIODE IN-4148 AT. (TAPPING)	1
C403/4	RP05-63152-01	CHIP 1500PF ±10% X7R 0603 SMT	2
C401/2	RP06-50225-02E	E.CAP 2.2μF/50V (4X5MM RC03)	2
R403/4	RP07-63182-00	CHIP RES. 1.8kΩ ±5% 0603 SMT	2
R401/2	RP07-63222-00	CHIP RES. 2.2kΩ ±5% 0603 SMT	2

ELECTRICAL PARTS LIST - CONTINUED

*Following part list is only for reference, not supplied as service parts

Ref. No.	Part No.	Description	Q'ty
PC BOARD ASSY, MAIN BOARD JB/GIB SECTION			
ZD501	RP02-50056-00A	ZENER DIODE 5.6V 0.5W AT. $\pm 2\%$	1
ZD502	RP02-50068-00A	ZENER DIODE 6.8V 0.5W AT. $\pm 2\%$	1
IC501	RP03-03121-06	IC BA3121F SOP8 ROHM	1
C505	RP06-10226-02	E. CAP 22 μ F 10V ($\varnothing$ 5X5MM)	1
C502	RP06-16106-02E	E. CAP 10 μ F/16V (4X5MM RC3)	1
C501	RP06-16107-04	E. CAP 100 μ F 10V ($\varnothing$ 6X5MM)	1
C503/4/6/7	RP06-50105-03	E. CAP 1 μ F 50V ($\varnothing$ 4X5MM)	4
R507	RP07-05101-16A	RES 100 Ω 1/16W (TAPPING)	1
R501	RP07-63102-00	CHIP RES 1k Ω $\pm 5\%$ 0603 SMT	1
R618	RP07-63105-00	CHIP RES 1M Ω $\pm 5\%$ 0603 SMT	1
R505/6	RP07-63222-00	CHIP RES 2.2k Ω $\pm 5\%$ 0603 SMT	2
R503/4	RP07-63332-00	CHIP RES 3.3k Ω $\pm 5\%$ 0603 SMT	2
R502	RP07-63471-00	CHIP RES 470 Ω $\pm 5\%$ 0603 SMT	1
R508/9	RP07-63682-00	CHIP RES 3.8k Ω $\pm 5\%$ 0603 SMT	2
	RP25-00080-08	RAINBOW WIRE #30 8PIN 80MM	1
	RP25-14368-01	ISO CDC SOCKET 8PIN 200MM	1
PC BOARD ASSY, FRONT & DETACHABLE BOARD			
Q1	RP01-08050-03	TR. 8050C TO-92-B	1
LED	RP02-01112-05M	SMD LED BL-HW135A 0805 PURE GREN	1
	RP02-30703-40J	PLAMP 3V 40MM 3X7KT	1
R5	RP07-05101-00	RES 100 Ω 1/4W	1
R6,10	RP07-63000-00	CHIP RES 0 Ω $\pm 5\%$ 0603 SMT	2
R2,3	RP07-63103-00	CHIP RES 10k Ω $\pm 5\%$ 0603 SMT	2
R7	RP07-63393-00	CHIP RES 39k Ω $\pm 5\%$ 0603 SMT	1
R8,9	RP07-63821-00	CHIP RES 820 Ω $\pm 5\%$ 0603 SMT	2
	RP11-02910-345	PCB SIR-291 FB 91X22.8X1.2MM	1
EJ	RP16-01140-04A	TACT SW KPS-1107SW TAPPING	1
RESET	RP16-05001-00	TACT SW TS-065001-150 H=5MM	1
DTH	RP16-51377-00K	PUSH SW. SPPB51377A (DS-20) KONEX	1
	RP25-00100-08	RAINBOW WIRE #30 8PIN 100MM	2
	RP25-32145-02	RAINBOW WIRE #32 145MM 2PIN	1
	RP25-F0217-20	20PIN SOCKET	1