



RADIO CASSETTE RECORDER CD PLAYER RCD-390

SERVICE Manual

RADIO CASSETTE RECORDER CD PLAYER



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1. Alignment and Adjustments

1-1 Instrument

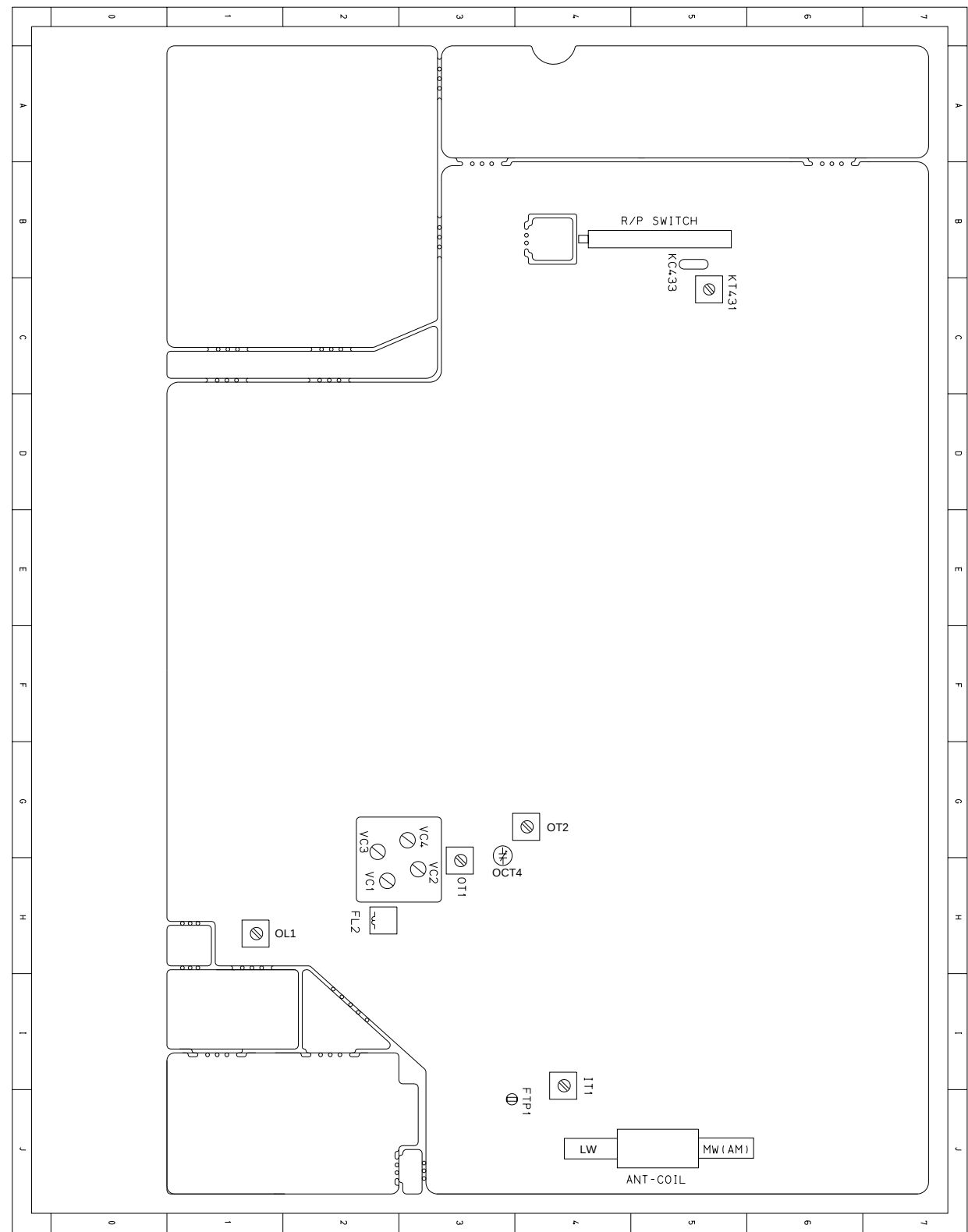


Fig 1-1 Location of Adjustment Point

1-1-1 Test Equipment

- 1. AM/FM Standard Signal Generator (S.S.G)
 - AM : 400Hz, 30% MOD
 - FM : 1KHz , 40KHz(Deviation)
- 2. Oscilloscope
- 3. VTVM
- 4. Frequency counter
- 5. Loop antenna
- 6. Dummy load (3Ω)
- 7. DC voltmeter
- 8. SW Dummy ANT
- 9. FM Stereo Modulator
- 10. FM/ AM IF Generator : 10.7MHz,455kHz

1-1-2 Pre-Adjustment

- 1. Check the source voltage
- 2. Select desired Band and Function.
- 3. Set the SBS control to off position.
- 4. Set volume control to approximately 50mW(3ohm)

1-2 Tuner Section

1-2-1 FM Adjustment

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig 1-2	10.7 MHz	Tune to the lowest	Not required	checked
2	FM frequency coverage adjustment	Fig 1-3	87.3 MHz	Tune to the lowest	FL2 FM OSC COIL	Best resonating point of SSG
3			109.5 MHz	Tune to the highest	VC1 OSC TRIMMER	Best resonating point of SSG
4	FM tracking adjustment	Fig 1-3	90 MHz	90 MHz	Not required	
5			106 MHz	106 MHz	VC2 ANT TRIMMER	Maximum output
6	Stereo separation adjustment	Fig 1-3 Connect Stereo generator to S.S.G additionally	98 MHz	98MHz	Not required	

FM IF OUTPUT : PIN NO. 19 of FIC1(KA22901) - Preference next page(Fig 1-2)

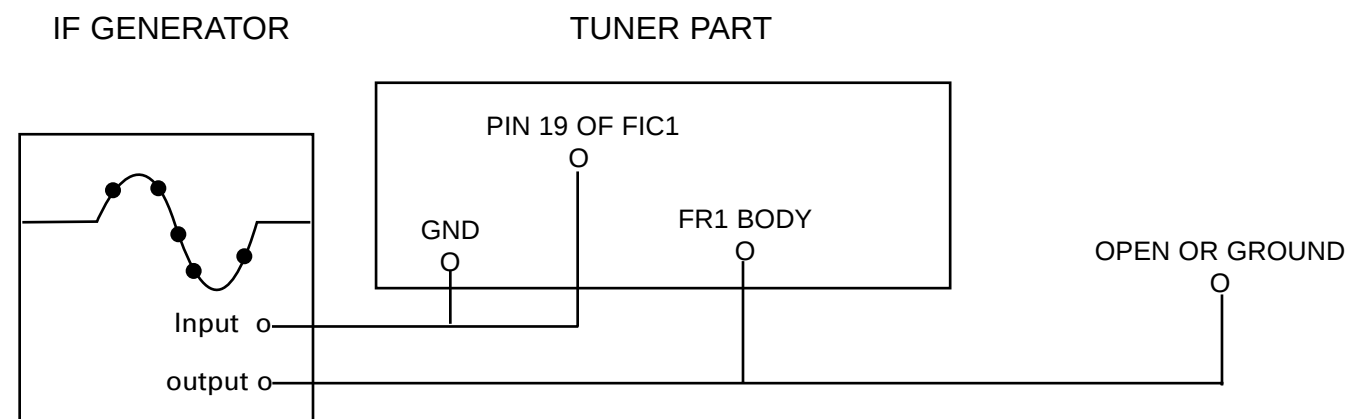


Fig 1-2

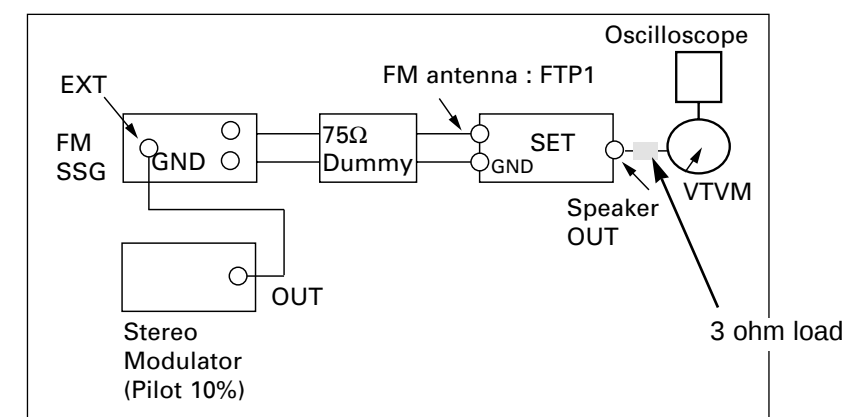


Fig 1-3

1-2-2 AM Adjustment(2BAND)

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	Fig1-4	455 KHz (465) KHz	Tune to the lowest	AM IFT : IT 1(WHT)	Maximum output
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	AM OSC COIL : OT 1	Best responding point of SSG
3			1680 KHz (1780)KHz	Tune to the highest	OSC TRIMMER : VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	ANT TRIMMER : VC3	Maximum output

AM IF OUTPUT : PIN NO. 19 of FIC1(KA22901)

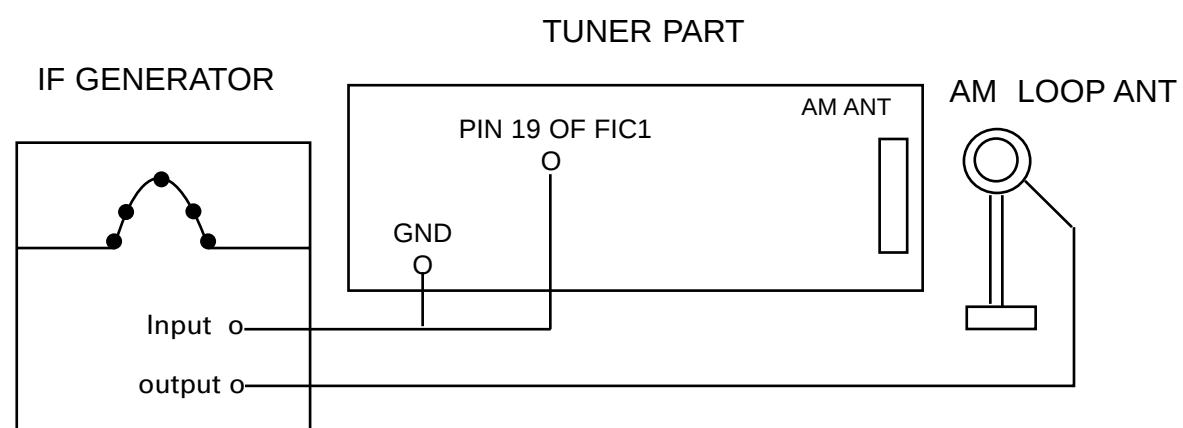


Fig 1-4

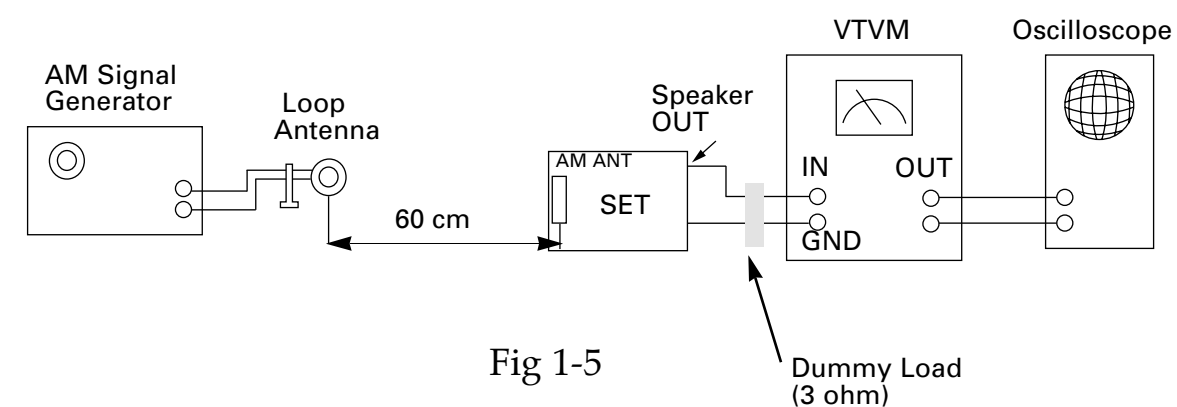


Fig 1-5

1-3 3BAND Adjustment

1-3-1 AM/SW

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	IF is the same as 2 band's				
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	OT2	Best responding point of SSG
3			1680 KHz	Tune to the highest	VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	VC3	Maximum output
6	SW frequency coverage adjustment	Fig 1-6,1-7	5.7 KHz	Tune to the lowest	OT1	Best responding point of SSG
7			18.5 KHz	Tune to the highest	OCT4	Best responding point of SSG
8	SW tracking adjustment	Fig 1-6,1-7	7 MHz	7 MHz	OL1	Maximum output
9			15 MHz	15 MHz	Not required	

1-3-2 MW(AM)/LW

Step	Item	Connection	SSG.FREQ.	FREQ. Setting	Adjust. Point	Remark
1	Intermediate frequency (IF) adjustment	IF is the same as 2 band's				
2	AM frequency coverage adjustment	Fig 1-5	515 KHz	Tune to the lowest	OT1	Best responding point of SSG
3			1680 KHz	Tune to the highest	VC4	Best responding point of SSG
4	AM tracking adjustment	Fig 1-5	600 KHz	600 KHz	AM ANT COIL	Maximum output
5			1400 KHz	1400 KHz	VC3	Maximum output
6	LW frequency coverage adjustment	Fig 1-5	145 KHz	Tune to the lowest	OT2	Best responding point of SSG
7			295KHz	Tune to the highest	OCT4	Best responding point of SSG
8	LW tracking adjustment	Fig 1-5	170MHz	170 MHz	LW ANT COIL	Maximum output
9			250 MHz	250 MHz	Not required	

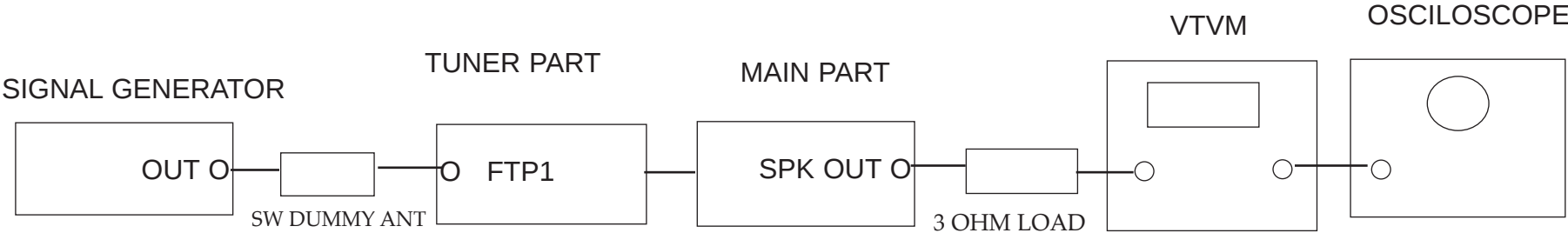


Fig1-6

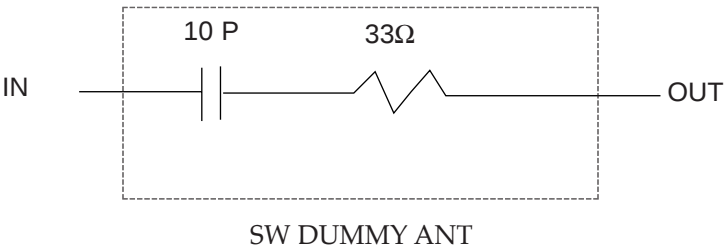


Fig1-7

1-4. Tape section

1-4-1. Recording BIAS adjustment

- 1) Connect frequency counter to KC433 (See Fig.1-8) and press the Record button.
- 2) Adjust KT431 (BIAS OSC COIL) until frequency counter reads 50KHz on stereo FM mode .

1-4-2. Tape AZIMUTH adjustment

- 1) Connect the equipments as per Fig.1-10 to adjust the tape azimuth with test tape (recorded at 6.3KHz : MTT-113N)
- 2) Play the test tape after inserting in DECK.
- 3) Adjust the azimuth adjustment screw of left side of record/play head for maximum output and for the same channel phase. (see Fig.1-9)

1-4-3. Tape speed adjustment

- 1) Connect the equipments as shown in Fig.1-10 adjust the tape speed with test tape (recorded at 3KHz : MTT-111N)

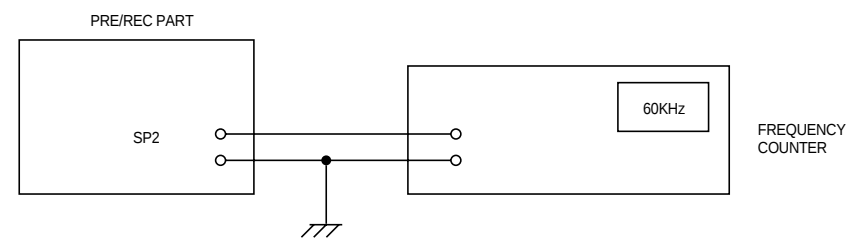


Fig.1-8 Recording bias adjustment

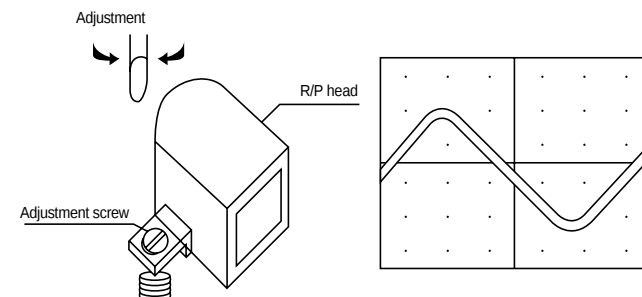


Fig.1-9 Azimuth speed adjustment

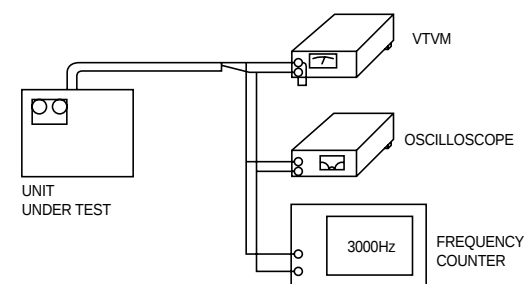


Fig.1-10

2. Disassembly and Reassembly

2-1 Front Cabinet

1. Remove the battery of A
2. Remove 7 screws of ! of rear part
3. Remove Front Cabinet of B

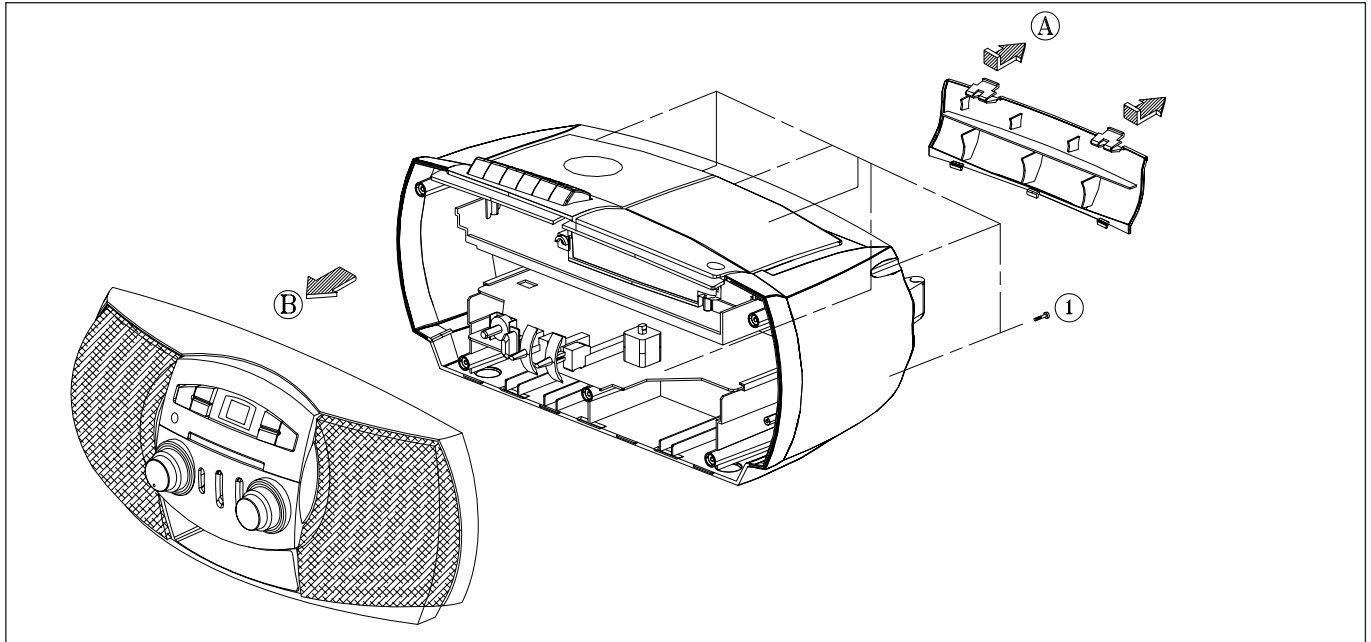


Fig 2-1

2-2 Top Cabinet

1. Lift handhold to topward, and remove 3 screws of @ of its top part
2. Press the CD COVER and DECK COVER, and remove 3 screws of # of its top part
3. Remove Top Cabinet of C

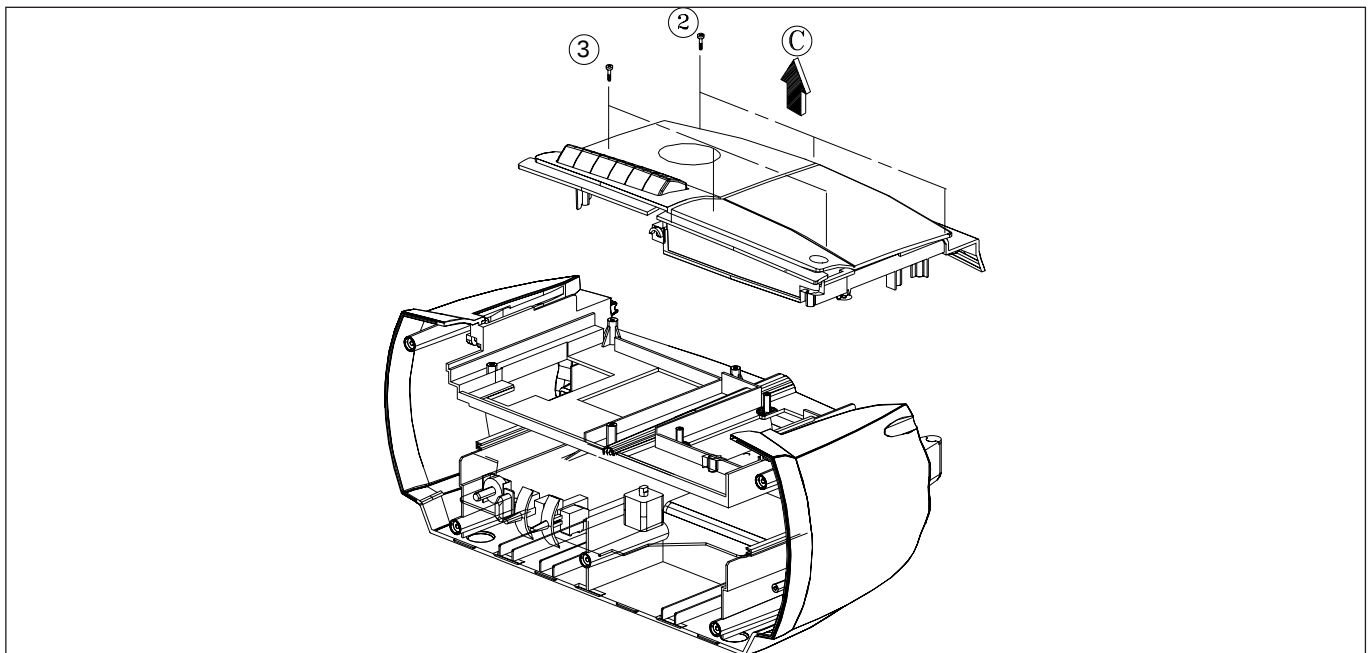
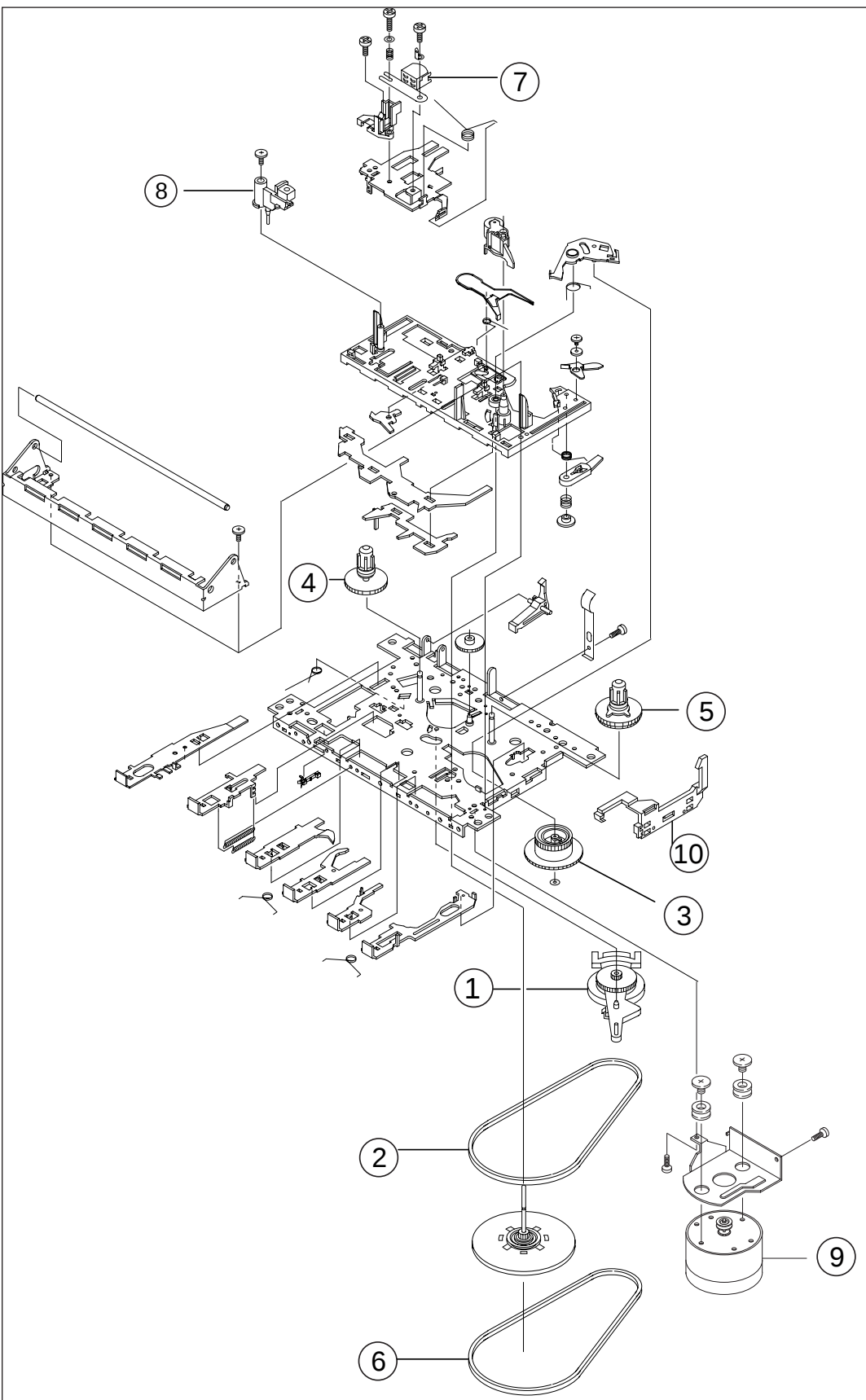


Fig 2-2

3.Exploded Views and Parts List

3-1 Cassette Deck Exploded View and Parts List



No.	Code No.	Description	Specification	Remarks
	AH59-20005Y	DECK ASS'Y	YN21ZSC-53	
1	AH81-11037D	R.F PULLEY ASS'Y	8521-200090-300	
2	AH81-11154D	BELT SUB	6600-090014-001	
3	AH81-11037H	CAM GEAR	6021-200802-001	
4	AH81-11037J	S REEL ASS'Y	8521-200080-300	
5	AH81-11037K	T REEL ASS'Y	8521-200070-300	
6	AH81-11154E	BELT MAIN	6600-090020-001	
7	AH81-11150W	R/P HEAD	TC-591	
8	AH81-11150X	ERASE HEAD	TC-230AN	
9	AH81-11154F	MOTOR	EG530AD9B	
10	AH81-10695L	EJECT SLIDE LEVER	YAN10N	

3-2-1 Exploded View

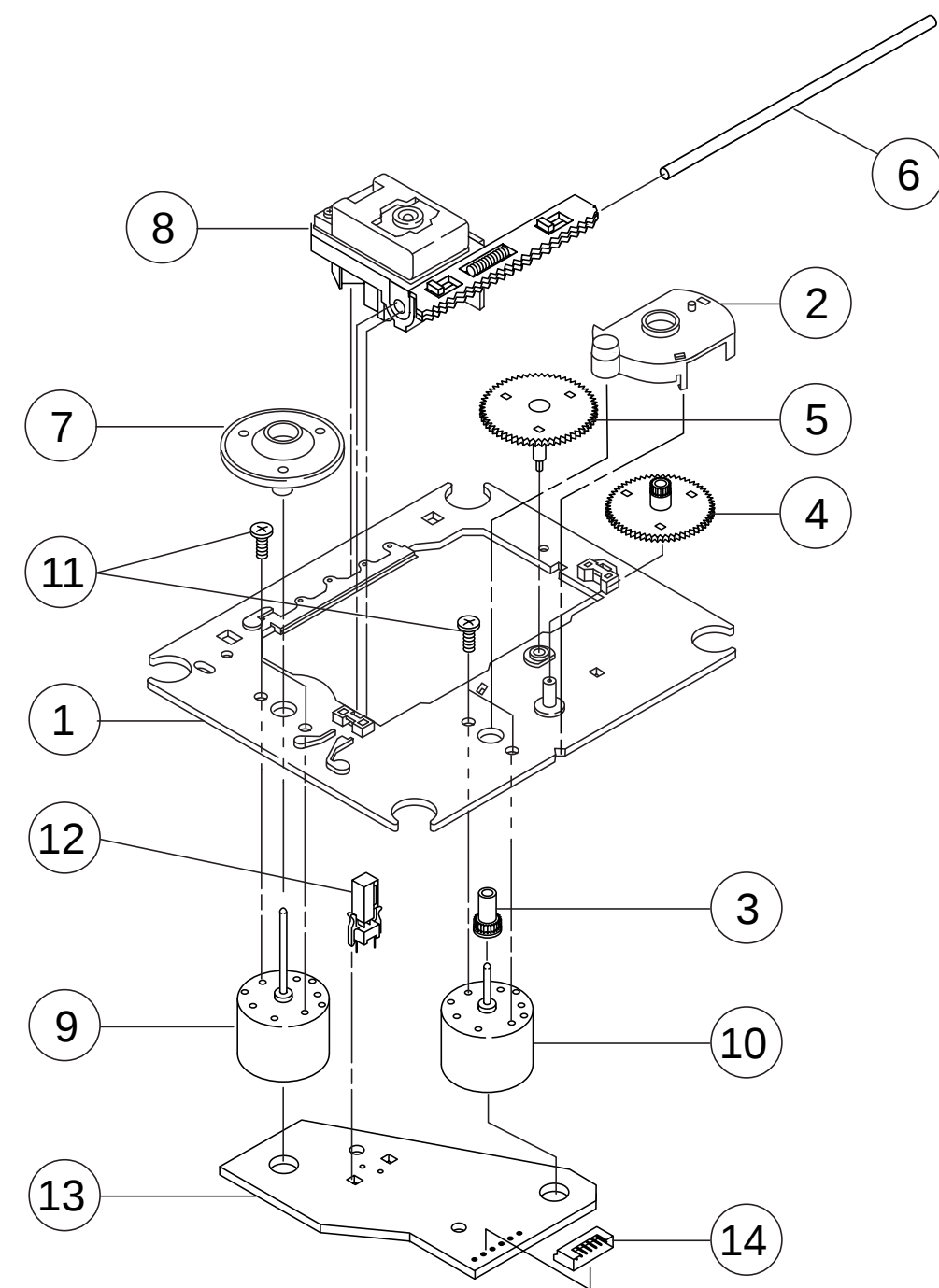


3-2-2 Parts List

No.	Code No.	Description	Specification	Remarks
1	AH64-11359A	KNOB-VOLUME	-,ABS,-,BLK,	
2	AH64-11360A	KNOB-TUNING	-,ABS,-,BLK,	
3	AH64-42024C	WIDDOW-FRONT	-,HIPS,-,T2.5,	
4	AH64-42025A	WINDOW-LCD	PC SHEET, T0.5	
5	AH64-32014C	CABINET-FRONT	-,HIPS,-,T3,-,BLK,	
6	AH61-10761B	BRACKET-REC	-,STS+SECC,-,T0.5,-,RCD380	
7	AH64-11298A	KNOB-DECK,REC	-,ABS,-,BLK,-,RCD380	
8	AH64-11299A	KNOB-DECK,PLAY	-,ABS,-,BLK,-,RCD380	
9	AH64-11300A	KNOB-DECK,REW	-,ABS,-,BLK,-,RCD380	
10	AH64-11301A	KNOB-DECK,FF	-,ABS,-,BLK,-,RCD380	
11	AH64-11302A	KNOB-DECK,STOP	-,ABS,-,BLK,-,RCD380	
12	AH64-11303A	KNOB-DECK,PAUSE	-,ABS,-,BLK,-,RCD380	
13	AH64-52006A	DOOR-CASSETTE	-,ABS,-,T2.5,-,BLK,-,RCD380	
14	AH68-50496A	LABEL-STICKER	RCD380,DOUBLETAPE	
15	AH64-42015A	WINDOW-DOOR	-,PMMA,-,CLEAR,-,RCD380	
16	AH64-52005A	DOOR-CD	-,ABS,-,T2.5,-,BLK,-,RCD380	
17	16603-511-840	CHUCK-PLATE	ABS+GF BLK NEW RCD-1360	
18	AH63-70025B	SHEET-CHUCK	HYMERON,T0.3,L50,W68,BLK	
19	AH61-62007B	SPRING-CD DOOR	-,SUS304,PI1.3,RCD380	
20	AH64-32009A	CABINET-TOP	-,MIPS,-,T2.5,-,BLK,-,RCD380	
21	AH61-80030A	DAMPER-ASSY	-,POM,M0.8,G130,BLK,-,MAX-630	
22	AH61-60397A	SPRING-DOOR	-,STS,-,PI1.2,-,RCD380	
23	3409-000107	LEAF-SW	16V,30MA,10GF,SPST	
24	AH95-50001A	LATCH ASSY	MAX555	
25	3001-001070	SPEAKER	3W, 30HM, 90DB, 110HZ	
26	AH64-11358C	KNOB-CD FUNCTION	-,ABS,-,BLK,	
27	AH61-10781A	BRACKET-LCD	-,SPTE,-,T0.3,	
28	AH61-22006A	HOLDER-PT	-,MIPS,-,BLK,-,RCD380	
29	AH62-30130A	HEAT-SINK	-,ALS,-,T1.0,-,POWER,RCD380	
30	AH66-20222A	GEAR-DRUM	-,ABS,-,BLK,-,RCD380	
31	AH64-11297A	KNOB-PUSH	-,ABS,-,BLK,-,RCD380	
32	AH64-11361A	KNOB-SBS	-,ABS,-,BLK,-,	
33	AH64-11295A	KNOB-LEVER	-,ABS,-,BLK,-,RCD380	
34	AH64-90021A	POINTER	-,P.P,-,WHT,-,RCD380	
35	AH66-20224A	GEAR-PULLEY	-,ABS,-,BLK,-,RCD380	
36	AH61-10763A	CHASSIS-TUNING	-,ABS,-,BLK,-,RCD380	
37	AH66-20223A	GEAR-TUNING	-,ABS,-,BLK,-,RCD380	
38	AH62-30131A	HEAT-SINK	-,ETHD,-,T0.5,-,CD,RCD380	
39	AH61-10535A	BRACKET-ANT	SPTE,-,T0.3,-,RCD1300	
40	AH64-32008A	CABINET-BACK	-,MIPS,-,RCD380	
41	AH61-60395A	SPRING-BATTERY,+	-,STS,-,PI1.2,-,RCD380	
42	AH61-60396A	SPRING-BATTERY,-	-,STS,-,PI1.2,-,RCD380	
43	AH64-20151A	LID-BATTERY	-,MIPS,-,T2.5,-,BLK,-,RCD380	
44	AH64-50350A	HANDLE	-,HIPS,-,BLK,RCD380	
45	AH61-20529A	CAP-PICK UP	RCD380,ABS,-,BLK,-,	
46	AH73-10031A	RUBBER-CD	RUBBER,-,RCD380	
47	AH63-50070B	GRILLE-SPEAKER.L	EGI T0.6	
48	AH63-50071B	GRILLE-SPEAKER.R	EGI T0.6	
49	AH61-00089A	HOLDER-REC		

3-3 CD Deck Exploded View and Parts List

CMS - B31 EXPLODED VIEW



NO.	Description	CODE NO.	Q'TY
	DECK-CD	CMS-B31	
1	CHASSIS-DECK(M)	AJ70-00601E	1
2	COVER-GEAR	AJ66-00601G	1
3	GEAR(A)	AJ66-00601D	1
4	GEAR(B)	AJ66-00601B	1
5	GEAR(C)	AJ66-00601F	1
6	SHAFT-PU	AJ70-00601A	1
7	TURN-TABLE(S)	AJ72-00602C	1
8	*SOH-AA	AJ75-00601F	1
9	MOTOR-SPINDLE	AJ31-00601C	1
10	MOTOR-FEED	AJ31-00601A	1
11	SCREW-PH(+M2*3)	AJ60-00601D	4
12	SWITCH-LEAF	3409-000174	1
13	PCB-SUB	AJ41-00601E	1
14	CONNECTOR-WAFER	AJ37-00601A	1

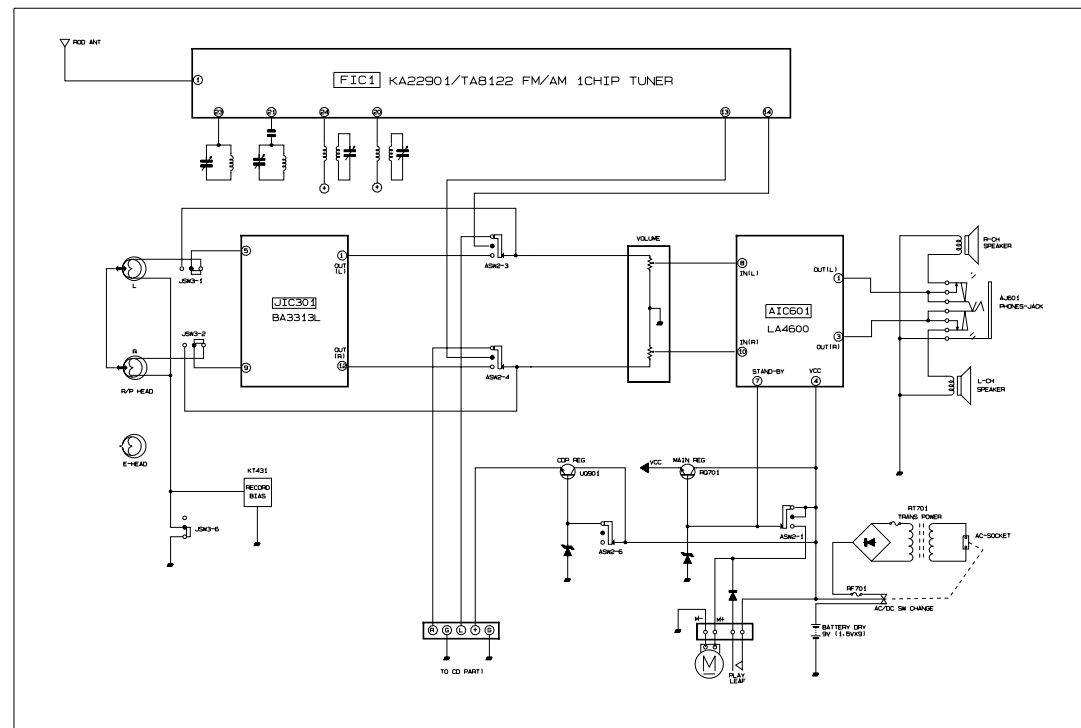
4. Electrical Parts List

Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
	AH26-80143W	TRANS-POWER	E148X25.115/230V/60/50	WR11,WR1,WR17	2001-000319	R-CARBON	120Kohm,5%,1/8W,AA,TP,
	AH39-10001K	POWER-CORD	CP2,KLCE-2F,2M,KKS-15,	IR2, WR2,WR26,WR27,WR9	2001-000331	R-CARBON	12Kohm,5%,1/8W,AA,TP,1
	AH59-20005N	DECK-CDP	CMS-831T66	WR19,WR2,WR7	2001-000356	R-CARBON	150Kohm,5%,1/8W,AA,TP
	AH39-10060W	POWER-CORD	AP2,KJP-173/0201,KJ3201A	KR433	2001-000376	R-CARBON	150HM,5%,1/8W,AA,TP
	AH39-10001D	POWER-CORD	EP2, SPT-1 # 21/8.2M,KKS-18	KR403,KR4,WR3	2001-000397	R-CARBON	RN 1/8T 180K-J
				IR3, RRT,SR204,SR254,WR20	2001-000429	R-CARBON	1Kohm,5%,1/8W,AA,TP,1.
				WR54,XR5,XR5R			
				JR305,WR6	2001-000435	R-CARBON	1Mohm,5%,1/8W,AA,TP,1.
				KR402,KR4,MR5, UR904 UR954	2001-000449	R-CARBON	2.2Kohm,5%,1/8W,AA,TP,1
				JR302,JR3,MR3	2001-000508	R-CARBON	220Kohm,5%,1/8W,AA,TP,1
				AR601,AR6,QR503	2001-000515	R-CARBON	220ohm,5%,1/8W,AA,TP,1
				IR10,IR4,MR2, QR503	2001-000522	R-CARBON	22Kohm,5%,1/8W,AA,TP,1
				JR306,KR4,WR28	2001-000527	R-CARBON	22ohm,5%,1/8W,AA,TP,1.
				WR51,XR2,XR2R	2001-000563	R-CARBON	27Kohm,5%,1/8W,AA,TP,1
				RR706,RR7,WR52,WR53	2001-000591	R-CARBON	3.3Kohm,5%,1/8W,AA,TP,1
				XR3L,XR3	2001-000660	R-CARBON	33Kohm,5%,1/8W,AA,TP,1
				WR18,WR3,WR31,WR32,WR33	2001-000702	R-CARBON	39Kohm,5%,1/8W,AA,TP,1
				IR5, IR6,SR203,SR253,XR4L	2001-000734	R-CARBON	4.7Kohm,5%,1/8W,AA,TP,
				XR4R,XR6,XR6R			
				WR2	2001-000773	R-CARBON	470Kohm,5%,1/8W,AA,TP,
				KR432,MR6,MR7, MR8,MR9	2001-000786	R-CARBON	47Kohm,5%,1/8W,AA,TP,1
				WR12,WR1			
				OR2	2001-000793	R-CARBON	47ohm,5%,1/8W,AA,TP,1.
				JR304,JR3,SR202,SR252,232	2001-000802	R-CARBON	5.6Kohm,5%,1/8W,AA,TP,
				WR13	2001-000864	R-CARBON	56Kohm,5%,1/8W,AA,TP,1
				QR501,QR5	2001-000890	R-CARBON	6.8Kohm,5%,1/8W,AA,TP,1
				IR9	2001-000938	R-CARBON	68ohm,5%,1/8W,AA,TP,1
				WR4	2001-000977	R-CARBON	8.2KOHM,5%,1/8W,AA,TP,
				WR1	2001-000989	R-CARBON	820Kohm,5%,1/8W,AA,TP,
				WR29,WR3	2001-001000	R-CARBON	82Kohm,5%,1/8W,AA,TP,1
				WR35	2001-001106	R-CARBON	82ohm,5%,1/8W,AA,TP,1
				RR701	2001-001096	R-CARBON(S)	2.2ohm,5%,1/2W,AA,TP,2
				WFR71	2008-000141	R-FUSIBLE	2.2ohm,5%,1/4W,AA,TP,2
				OC4	2201-000144	C-CERAMIC,DISC	100pF,5%,50V,NPO,8.0X4
				OC3	2201-000202	C-CERAMIC,DISC	10pF,5%,50V,NPO,5.0*3
				WC27	2201-000223	C-CERAMIC,DISC	12pF,5%,50V,NPO,5.0*3
				FC2	2201-000354	C-CERAMIC,DISC	20pF,5%,50V,NPO,5.0*3
				FC1, FC3	2201-000389	C-CERAMIC,DISC	22pF,5%,50V,NPO,5.0*3
				FC4	2201-000399	C-CERAMIC,DISC	24PF,5%,50V,RH,TP,5.0"
				WC53,WC5	2201-000423	C-CERAMIC,DISC	27pF,5%,50V,NPO,5.0*3
				NFR2	2201-000432	C-CERAMIC,DISC	2PF,5%,50V,NPO,5.0*3.0
				MC5, MC6	2001-000483	C-CERAMIC,DISC	33pF,5%,50V,NPO,5x3.5mm
				AC603	2201-000565	C-CERAMIC,DISC	47nF,+80%-20% 50V Y5V
				FC5	2201-000582	C-CERAMIC,DISC	4PF,0.3PF,50V,NPO
				OC72	2201-000619	C-CERAMIC,DISC	5pF,50V,NPO,5.0*3.0,5mm
				NFR2	2201-000659	C-CERAMIC,DISC	6pF,0.5pF,50V,SL,5.0*3
				NFC1	2201-000666	CERAMIC,DISC	7P,CH,BLACK MARKING
				WC22,WC2,WC25,WC64	2201-000783	C-CERAMIC,DISC	100nF,+80%,-20%,50V,Y5V
				IC1, OC6	2201-000865	C-CERAMIC,DISC	68PF,5%,50V,CH,TP,6.5x
				IC3, FC1	2202-000231	C-CERAMIC,MLC-AXIA	330pF,10%,50V,Y5P,3.5x
				FC18,FC1,JC303,JC353 NJC1	2202-000781	C-CERAMIC,MLC-AXIA	100pF,10%,50V,Y5P,3.5x
				QC505,QC5,UC904,UC954			
				KC434,KC4,SC201,SC251,WC19	2202-000796	C-CERAMIC,MLC-AXIA	1nF,10%,50V,Y5P,3.5x19,1
				WC23,WC3,XC3L,XC3R,XC5R			
				WC10,WC1,WC17,WC2,WC20	2202-000797	C-CERAMIC,MLC-AXIA	10nF,30%,16V,Y5R,3.5x1,1
				WC21,WC5,WC57,WC58,WC59			
				WC61,WC6,WC70,XC4L,XC4R			
				XC9			
				NC11,NC1,NC13,NC14	2202-000806	C-CERAMIC,MLC-AXIA	220pF,10%,50V,Y5P,3.5x
				AC606,FC1,FC16,FC17,RC706	2202-000807	C-CERAMIC,MLC-AXIA	22nF,+80-20%,25V,Y5V,3x
				UC903			
				JC302,JC3	2202-000809	C-CERAMIC,MLC-AXIA	3.3nF,20%,16V,Y5R,3.5x
				WC28,WC2	2202-000817	C-CERAMIC,MLC-AXIA	4.7nF,20%,16V,Y5R,3.5x
				IC4	2202-000825	C-CERAMIC,MLC-AXIA	680pF,10%,50V,Y5P,3.5x
				QC501,QC5	2202-000829	C-CERAMIC,MLC-AXIA	820pF,10%,50V,Y5P,3.5x
				WC1, WC5	2202-000848	C-CERAMIC,MLC-AXIA	1.5nF,20%,16V,Y5R,3.5x
				KC401,KC4,KC451,KC452 WC18	2202-000850	C-CERAMIC,MLC-AXIA	2.2nF,20%,16V,Y5R
				KC432	2201-000365	C-FILM,PEF	1.5nF,10%,50V,5.5x12x3
				WC305,JC3	2301-000385	C-FILM,PEF	12nF,10%,50V,7.5x12x3.5
				WC15,WC15	2301-000389	C-FILM,PEF	150nF,5%,50V,12.5x15x7
				IC11,IC1,IC5	2301-000390	C-FILM,PEF	15nF,10%,50V,7.5x12x3.5
				WC502,QC5,WC16,WC4,WC6	2301-000430	C-FILM,PEF	33nF,10%,50V,9x12x5.2
				QC501	2301-000449	C-FILM,PEF	47nF,10%,50V,9.5x12.5x5
				KC433	2301-000454	C-FILM,PEF	5.6nF,10%,50V,6x12x3.7
				WC12	2301-000469	C-FILM,PEF	68nF,10%,50V,10x12.5x5
				IC9	2301-000476	C-FILM,PEF	82nF,10%,50V,10.5x12.5x5
				SC202,SC2,WC33,WC7,WC8	2303-000312	C-FILM,PPF	100nF,1%,50V,7.5*12.5"
				AC602,IC2,IC21,JC309,QC504	2401-000240	C-AL	100uF,20%,16V,GP5*11,5
				RC708,WC3,WC34,WC35 WC55			
				WC60,WC6,WC63,WC64 WC65			
				XC8			
				AC604,UC9	2401-000303	C-AL	100uF,20%,25V,GP,6.3"
				IC8	2401-000419	C-AL	10uF,20%,16V,GP,5*11,5
				RC707	2401-000759	C-AL	220nF,20%,50V,GP,5x11M
				IC205	2401-001164	C-AL	330uF,20%,16V,GP,8*11
				AC605,AC6,UC905	2401-001164	C-AL	33uF,20%,16V,GP,5*11,5
				JC304,JC3,JC354,KC431	2401-001538	C-AL	47uF,20%,16V,GP,10x12

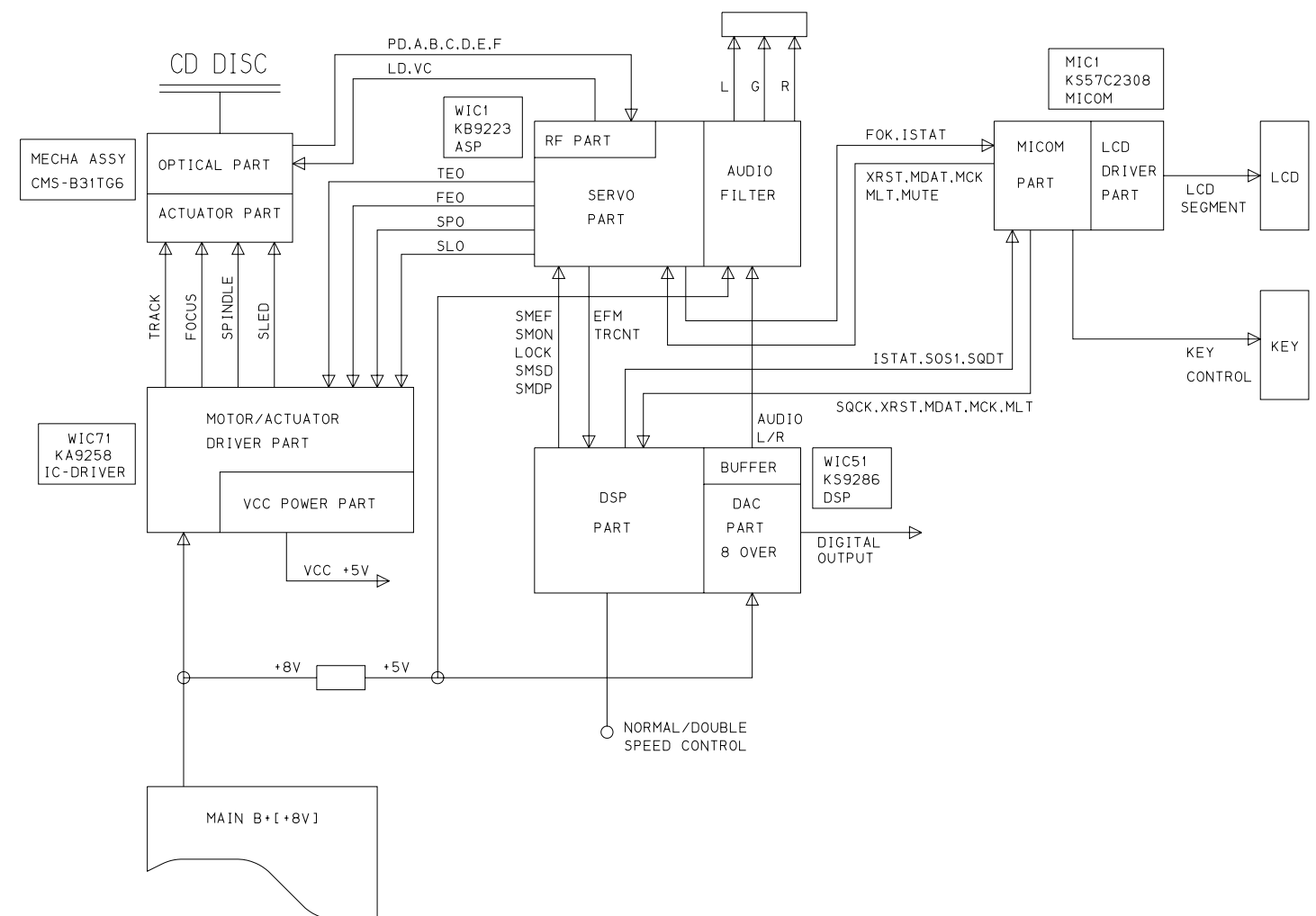
Location no.	Code no.	Description & Specification	Remarks	Location no.	Code no.	Description & Specification	Remarks
MC4	2401-001889	C-AL	100nF,20%,50V,GP,5*11,				
XC7	2401-001895	C-AL	100uF,20%,16V,GP,5*11,				
AC601,FC6,IC10,IC13	2401-001912	C-AL	1uF,20%,50V,GP,5*11,5m				
RC709,UC9,DESIGN,IC6,JC3,JC356,QC503							
WC3,WC6,XC2L,XC2R,XCSL	2401-001954	C-AL	4.7uF,20%,50V,GP,5*11				
XCSR,XC6							
JC308,WC5,WC9	2401-001968	C-AL	470nF,20%,50V,GP,5*11,				
MC3,WC1	2401-001990	C-AL	10uF,20%,25V,8P,5*11,5				
MC2	2401-002183	C-AL	220uF,20%,16V,GP,10*9,				
ACH1,ACH	2701-000111	INDUCTOR-AXIAL	100uH,10%,2.5x3.4,LAL0				
WL1,XL1,XL3L,XL3R	2701-000178	INDUCTOR-AXIAL	33uH,10%,2.8x7mm,BAL03				
WL2,WL4,XL2	3301-000297	CORE-FERRITE BEAD	AA,3.6x1.2x5.7mm,1400,				
FBF1,FJ1,FJ15-19,FJ2,FJ22-2	3811-000389	WIRE-NO SHEATH CU	SPCW,300V,52.4mm,1/0.5	16			
	AH90-10749M	ASSY-PCB FRONT	RCD380,BAISC				
ULC1	AH07-10035J	LCD	-,CH-60881PP,RCD380,7.				
	AH39-20001U	LEAD-CONNECTOR-ASS	1007#26 2P 150MM				
UCW1	AH39-20561M	LEAD-CONNECTOR-ASS	-,51004,35023,15P,20				
TO MAIN PC	AH39-50001D	LEAD-FASTEN	1,1007#24,200MM,RED				
LCD	AH61-10762A	BRACKET-LCD	-,SPTE,-,T0.3,-,RCD3				
UD1,UD2	0401-000101	DIODE-SWITCHING	1N4148,100V,200mA,500m				
USW1-4	3404-000165	SWITCH-TACT	12V,50mA,160gf,SKHV109				
ASSY-PCB POWER				RCD390			
RJ701	AH37-22001L	JACK-AC POWER	16.5MM,KC2106A,5P,BULK	CP2			
RJ701	AH37-22001M	JACK-AC POWER	17MM,KC1103,5P,BULK	EP2			
RF701	3601-000216	FUSE-FERRULE	250V,2.5A,TIME LAG,GLA				
RCN702	3711-000820	CONNECTOR-HEADER	5267-02A 2P ST				
RD701-704	0402-000127	DIODE-RECTIFIER	1N4002,100V,1A,DO-41				
RC701-704	2201-000381	C-CERAMIC,DISC	22nF,+80%,-20% 50V Y5V				
RF701	3602-000147	FUSE-CLIP	250V,7.5A,30mohm				

5. Block Diagram

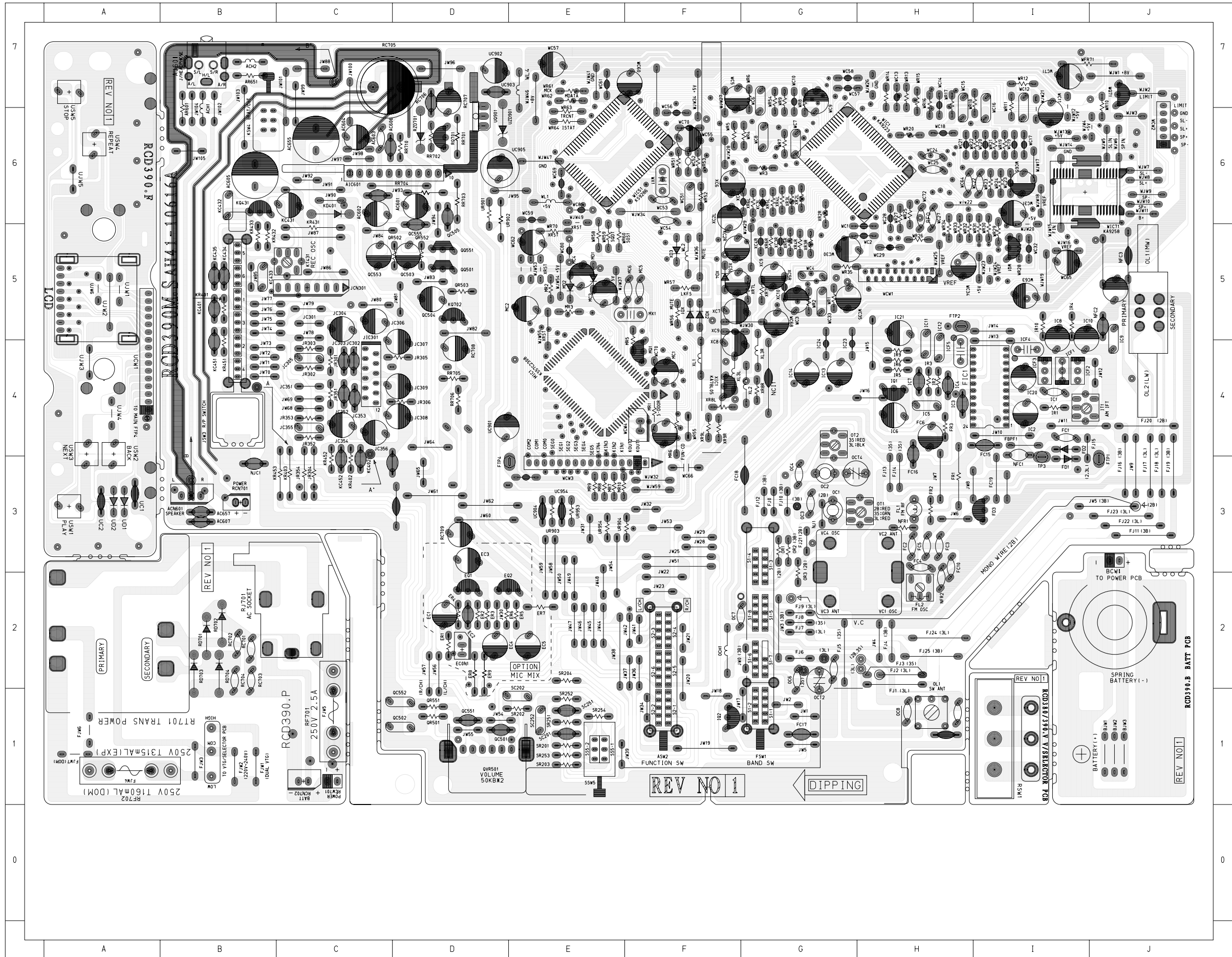
4-1 Main



4-2 CD Part



6. Printed Circuit Board Diagram

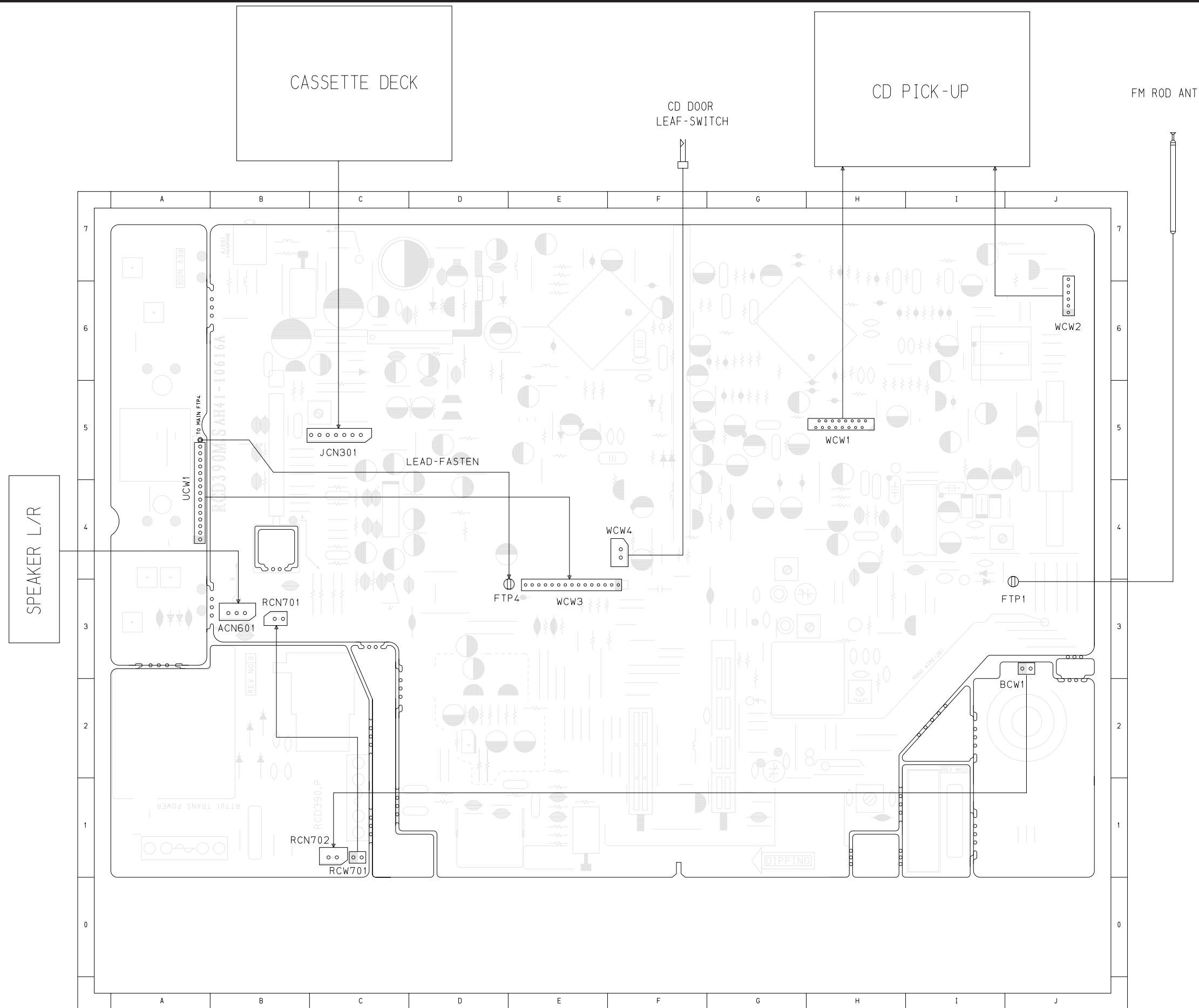


FD1 (I3)
FD2 (I4)
KD401 (C6)
MD1 (E5)
MD2 (E5)
RD701 (B2)
RD702 (B2)
RD703 (B2)
RD704 (B2)
RZD701 (D6)
UD1 (A3)
UD2 (A3)
UZD901 (D6)
XD1 (F5)
XD2 (F5)
XD3 (F5)
XD4 (F5)

EQ1 (D2)
EQ2 (D2)
FD3 (I3)
IQ1 (H4)
IQ2 (F1)
KA78L05 (F4)
KQ431 (B6)
KQ702 (D5)
MQ1 (F4)
QQ501 (D5)
QQ551 (D5)
RQ701 (D6)
WQ1 (I5)
WQ1 (J7)

ACN601 (B3)
BCW1 (J3)
EC0N1 (D2)
JCN301 (C5)
OL1 (H1)
RCN701 (B3)
RCN702 (C1)
RCW701 (C1)
RSW1 (I1)
UCW1 (A4)
USW1 (A3)
USW2 (A4)
USW3 (A4)
USW4 (A6)
USW5 (A7)
WCW2 (J6)
WCW4 (F4)

7. Wiring Diagram



8. Schematic Diagram

8-1 Main Part

