

Service Manual

ORDER NO.
RRV1124

STEREO CASSETTE DECK

CT-S330

- Refer to the service manual RRV1123 for CT-S430S/HBXJ.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	CT-S330		
HBXJ	○	AC230 – 240V	AC220 – 230V, *
HB	○	AC230 – 240V	AC220 – 230V, *
HEM	○	AC220 – 230V	AC230 – 240V, *
HEMXJ	○	AC220 – 230V	AC230 – 240V, *
HEWM	○	AC220 – 230V	AC230 – 240V, *
HEWMXJ	○	AC220 – 230V	AC230 – 240V, *
HL	○	AC220 – 230V	AC230 – 240V, *
HLXJ	○	AC220 – 230V	AC230 – 240V, *
HPW	○	AC230 – 240V	AC220 – 230V, *
HPWXJ	○	AC230 – 240V	AC220 – 230V, *
SD	○	AC110V/120 – 127V/220V/240V	With the voltage selector
SDXJ	○	AC110V/120 – 127V/220V/240V	With the voltage selector

* : Alter the wiring of the Power-supply block at the primary winding of power transformer referring to the "Line Voltage Selection" described in Service Manual.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

■ CONTRAST OF CT-S330/HBXJ, HB, HEM, HEMXJ, HEWM, HEWMXJ AND CT-S430S/HBXJ

CT-S330/HBXJ, HB, HEM, HEMXJ, HEWM, HEWMXJ and CT-S430S/HBXJ have the same construction except for the following:

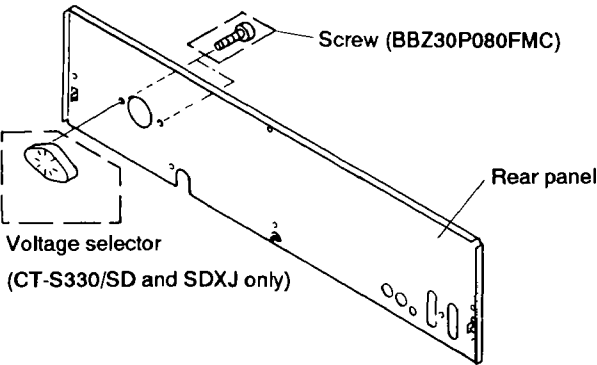
Mark	Symbol & Description	Part No.						
		CT-S430S/ HBXJ	CT-S330/ HBXJ	CT-S330/ HB	CT-S330/ HEM	CT-S330/ HEMXJ	CT-S330/ HEWM	CT-S330/ HEWMXJ
NSP	Main unit	RWZ3208	RWZ3265	RWZ3265	RWZ3265	RWZ3265	RWZ3265	RWZ3265
	Dolby S unit	RWX1101	Not used	Not used	Not used	Not used	Not used	Not used
	TRN 1 unit	RWZ3298	RWZ3298	RWZ3298	RWZ3217	RWZ3217	RWZ3217	RWZ3217
	TRN 2 unit	RWZ3220	RWZ3220	RWZ3220	Not used	Not used	Not used	Not used
	FL unit	RWZ3214	RWZ3267	RWZ3267	RWZ3267	RWZ3267	RWZ3267	RWZ3267
⚠ NSP	AC power cord	PDG1055	PDG1055	PDG1055	PDG1003	PDG1003	PDG1003	PDG1003
	Fuse (T5A) (For AC power cord)	PEK1003	PEK1003	PEK1003	Not used	Not used	Not used	Not used
	Main chassis	RNB1100	RNB1100	RNB1090	RNB1090	RNB1100	RNB1090	RNB1100
	FL lens	RAH2413	RAH2413	RAH2413	RAH2413	RAH2413	RAH2413	RAH2413
	Door pocket	RAH2443	RAH2444	RAH2444	RAH2444	RAH2444	RAH2444	RAH2444
	Front panel	RAH2411	RAH2412	RAH2412	RAH2412	RAH2412	RAH2412	RAH2412
	Rear panel	RNA1818	RNA1819	RNA1824	RNA1849	RNA1815	RNA1849	RNA1815
	Pin plug	VEC1616	VEC1616	VEC1616	Not used	Not used	Not used	Not used
	Control cord	RDE1030	RDE1030	RDE1038	RDE1038	RDE1030	RDE1038	RDE1030
	Operating instructions (English)	RRB1146	RRB1146	RRB1146	Not used	Not used	Not used	Not used
	Operating instructions (German)	Not used	Not used	Not used	Not used	Not used	RRD1150	RRD1150
	Operating instructions (English/French/German/ Italian/Dutch/ Swedish/Spanish/Portuguese)	Not used	Not used	Not used	RRE1101	RRE1101	Not used	Not used
	Packing case	RHG1572	RHG1612	RHG1579	RHG1578	RHG1614	RHG1578	RHG1575
	Pad spacer A	RHC1039	RHC1039	RHC1039	Not used	Not used	Not used	Not used
	Pad spacer B	RHC1041	RHC1041	RHC1041	Not used	Not used	Not used	Not used
	Connection cord with mini plug	PDE-319	PDE-319	PDE1247	PDE1247	PDE-319	PDE1247	PDE-319

■ CONTRAST OF CT-S330/HL, HLXJ, HPW, HPWXJ, SD, SDXJ AND CT-S430S/HBXJ

CT-S330/HL, HLXJ, HPW, HPWXJ, SD, SDXJ and CT-S430S/HBXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.						
		CT-S430S/ HBXJ	CT-S330/ HL	CT-S330/ HLXJ	CT-S330/ HPW	CT-S330/ HPWXJ	CT-S330/ SD	CT-S330/ SDXJ
NSP NSP	Main unit	RWZ3208	RWZ3285	RWZ3285	RWZ3285	RWZ3285	RWZ3285	RWZ3285
	Dolby S unit	RWX1101	Not used	Not used	Not used	Not used	Not used	Not used
	TRN 1 unit	RWZ3298	RWZ3217	RWZ3217	RWZ3298	RWZ3298	RWZ3218	RWZ3218
	TRN 2 unit	RWZ3220	Not used	Not used	RWZ3220	RWZ3220	Not used	Not used
	FL unit	RWZ3214	RWZ3287	RWZ3287	RWZ3287	RWZ3287	RWZ3287	RWZ3287
△	Power transformer (AC220 – 230/230–240V)	RTT1254	RTT1254	RTT1254	RTT1254	RTT1254	Not used	Not used
△	Power transformer (AC110/120–127/220/240V)	Not used	Not used	Not used	Not used	Not used	RTT1255	RTT1255
△	AC power cord	PDG1055	PDG1003	PDG1003	RDG1022	RDG1022	PDG1013	PDG1013
△	Fuse (T5A) (For AC power cord)	PEK1003	Not used	Not used	Not used	Not used	Not used	Not used
△	Voltage selector (* 1) (AC110/120–127/220/240V)	Not used	Not used	Not used	Not used	Not used	PSB1002	PSB1002
NSP	Main chassis	RNB1100	RNB1090	RNB1100	RNB1090	RNB1100	RNB1090	RNB1100
	FL lens	RAH2413	RAH2414	RAH2414	RAH2414	RAH2414	RAH2414	RAH2414
	Door pocket	RAH2443	RAH2444	RAH2444	RAH2444	RAH2444	RAH2444	RAH2444
	Front panel	RAH2411	RAH2412	RAH2412	RAH2412	RAH2412	RAH2412	RAH2412
	Rear panel	RNA1818	RNA1823	RNA1841	RNA1824	RNA1819	RNA1821	RNA1839
	Pin plug	VEC1818	Not used	Not used	Not used	Not used	Not used	Not used
	Control cord	RDE1030	RDE1038	RDE1030	RDE1038	RDE1030	RDE1030	RDE1030
	Operating instructions (English)	RRB1148	Not used	Not used	RRB1148	RRB1148	Not used	Not used
	Operating instructions (English/Spanish/Chinese)	Not used	RRE1102	RRE1102	Not used	Not used	RRE1102	RRE1102
	Packing case	RHG1572	RHG1578	RHG1581	RHG1579	RHG1578	RHG1577	RHG1583
	Pad spacer A	RHC1039	Not used	Not used	RHC1039	RHC1039	Not used	Not used
	Pad spacer B	RHC1041	Not used	Not used	RHC1041	RHC1041	Not used	Not used
	Connection cord with mini plug	PDE–319	PDE1247	PDE–319	PDE1247	PDE–319	PDE–319	PDE–319

● Exploded Views (* 1)



MAIN UNIT

RWZ3265 and RWZ3208 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		RWZ3208	RWZ3265	
	IC251 IC255 Q258 R273 R275 R276	CXA1583S Not used DTC124ES RS1/10S472J RS1/10S333J RS1/10S103J	Not used CXA1582S Not used Not used Not used Not used	

FL UNIT

RWZ3267 and RWZ3214 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		RWZ3214	RWZ3267	
	D1529	1SS254	Not used	

TRN 1 UNIT

RWZ3217, RWZ3218 and RWZ3298 have the same construction except for the following:

Mark	Symbol & Description	Part No.			Remarks
		RWZ3298	RWZ3217	RWZ3218	
△	C1025 C1031 C1033 Capacitor sleeve A Terminal 2P	CKSQYF223Z50 Not used Not used Not used Not used	CKSQYF223Z50 VCG – 044 Not used REC – 150 Not used	Not used Not used VCG – 044 REC – 150 PKC – 027	

2. ADJUSTMENTS

Refer to the service manual (RRV1123) of CT-S430S for the adjustment method of CT-S330.

The adjustment method of CT-S330 is the same as that of CT-S430S except the following.

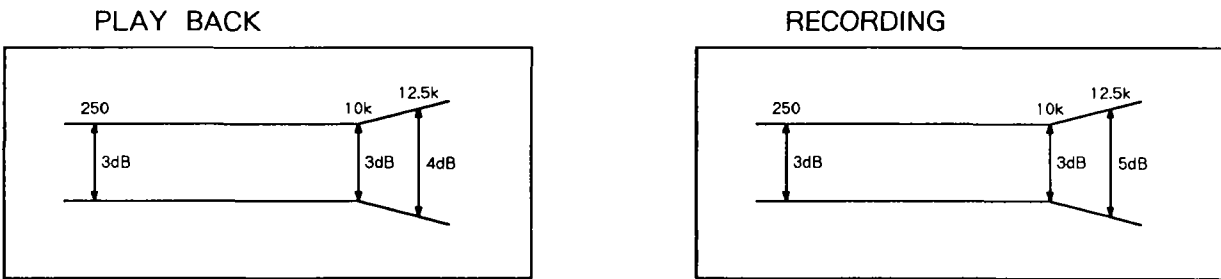
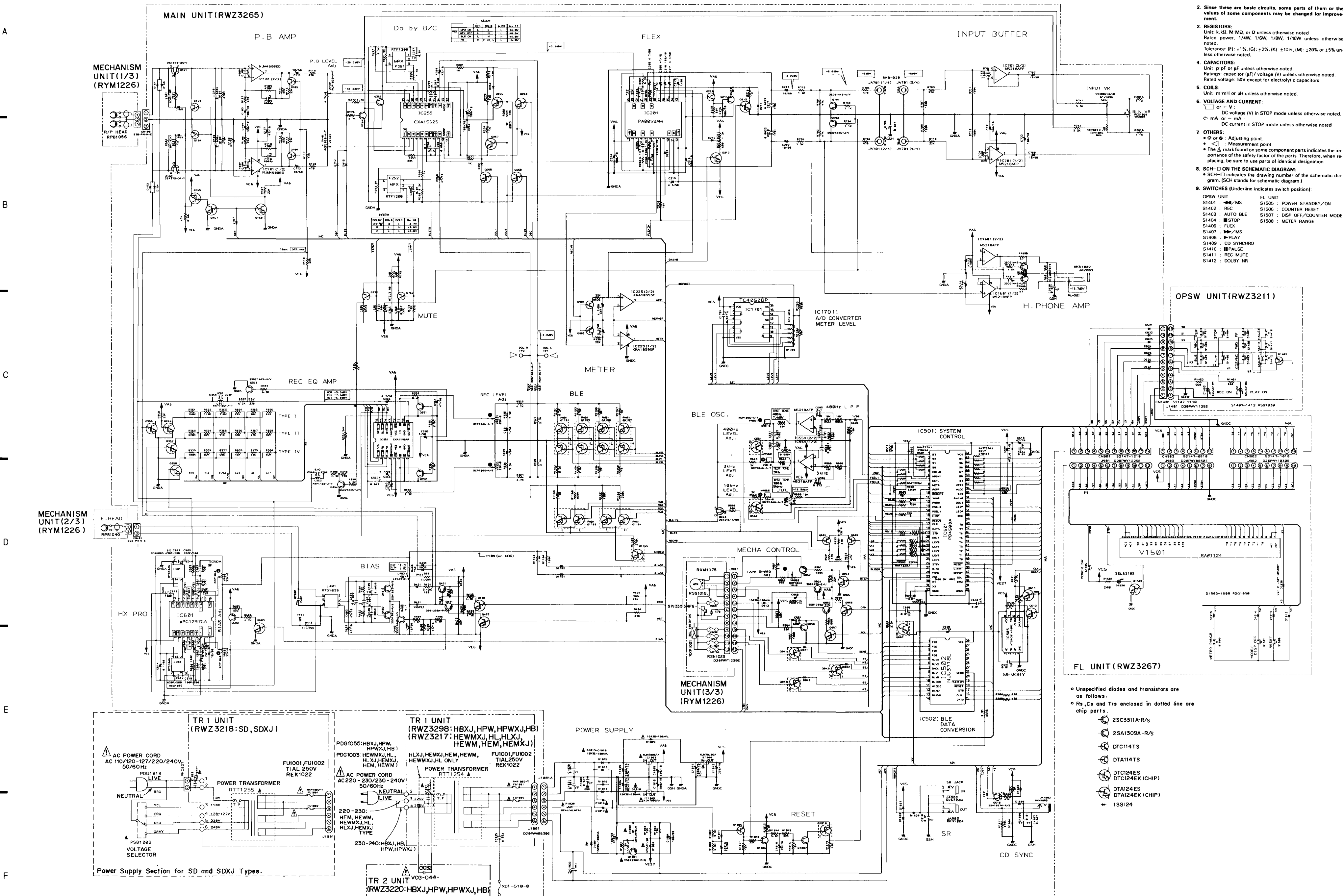


Fig. 5 Frequency response zone

3. SCHEMATIC DIAGRAM



NOTE FOR SCHEMATIC DIAGRAMS (Type 6A)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".

2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.

3. RESISTORS:
Unit: k, k Ω , M, M Ω , or Ω unless otherwise noted
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
Tolerance: (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ or $\pm 5\%$ unless otherwise noted.

4. CAPACITORS:
Unit: p.pF or μ F unless otherwise noted.
Ratings: capacitor (μ F)/voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors

5. COILS:
Unit m.mH or μ H unless otherwise noted.

6. VOLTAGE AND CURRENT:
 or - V:
 DC voltage (V) in STOP mode unless otherwise noted.
 ⚡ mA
 or - mA:
 DC current in STOP mode unless otherwise noted

7. OTHERS:

-  or  : Adjusting point.
-  : Measurement point
- The  mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation

8. SCH—□ ON THE SCHEMATIC DIAGRAM:
• SCH—□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

9. SWITCHES (Underline indicates switch position):

OPSW UNIT	FL UNIT
S1401: ◀/MS	S1505: POWER STANDBY/ON
S1402: REC	S1506: COUNTER RESET
S1403: AUTO BLE	S1507: DSP OFF/COUNTER MODE
S1404: <u>■</u> STOP	S1508: METER RANGE
S1406: FLEX	
S1407: ▶/MS	
S1408: ▶▶ PLAY	
S1409: CD SYNCHRO	
S1410: <u> </u> PAUSE	
S1411: REC MUTE	
S1412: DOLBY NR	

SW UNIT(RWZ3211)

STOP

[illegible]

REC ON PLAY ON

[illegible]




[illegible]

Figure 1. Schematic diagram of the experimental setup. The system consists of a computer, a data acquisition card, a power supply, a motor, a pump, a valve, a sensor, and a flowmeter.

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51505~1508 RSG1050

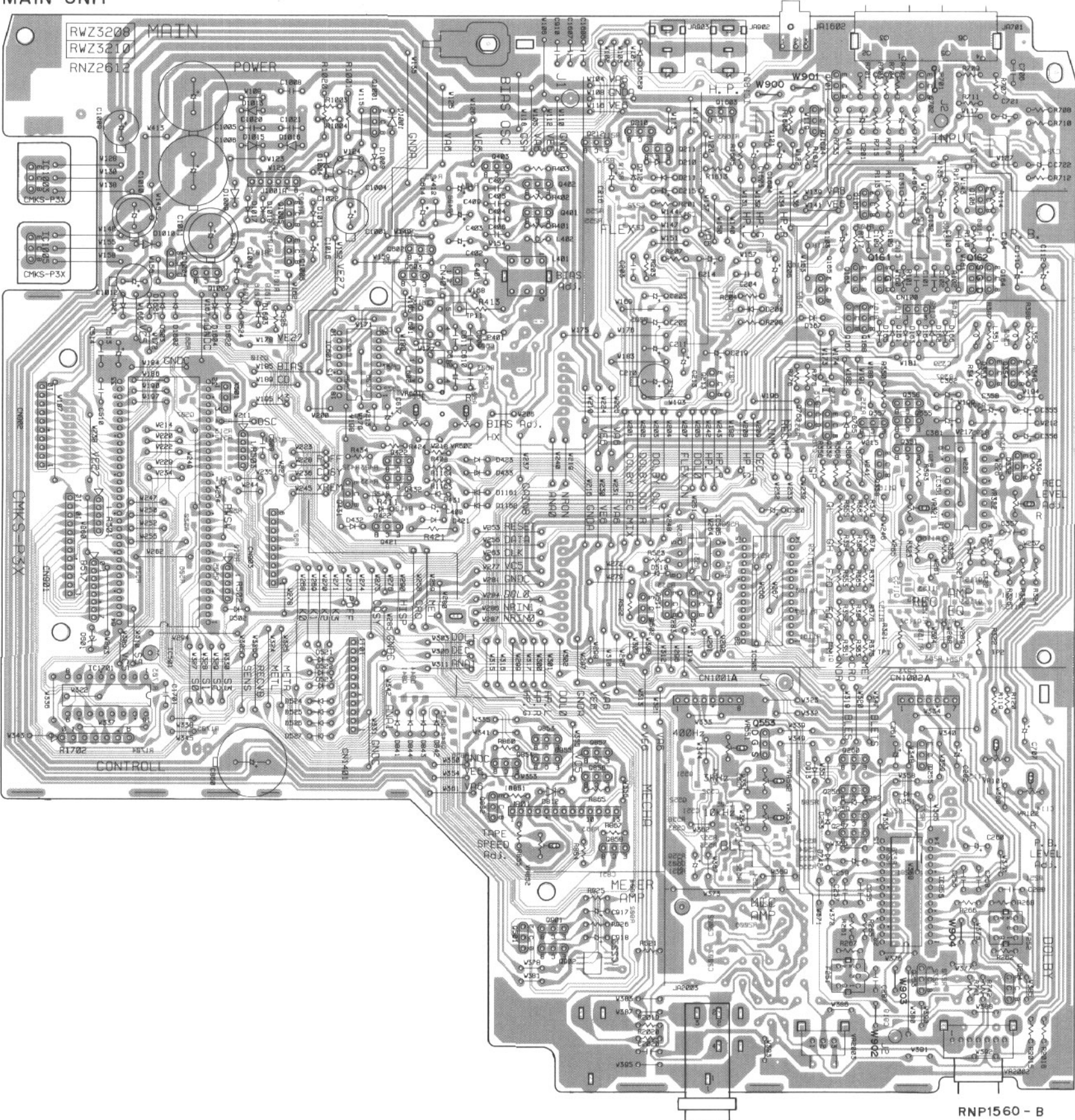
RANGE
0-5
3,100

9

4. PCB DIAGRAM

• This diagram is viewed from the mounted parts side.

MAIN UNIT



NOTE FOR PCB DIAGRAMS:
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

Q1603 Q701
Q210 Q702
Q1001 Q212 Q1604
Q1001 Q211 Q1001
IC1003 Q403
Q1005 Q402 Q106
Q1006 Q401 Q105
IC1005 Q602 Q101
IC1004 Q603 Q162
Q1007 Q165 Q163 Q164
Q1010 Q161
Q167 Q168

IC 601 Q353 Q354
Q150 Q213 Q356
VR601 Q762 Q357 Q355
VR602 Q332 Q351 Q352

Q422 Q410
Q432 Q431 IC351
VR322
VR321

IC501
Q421 Q511 Q512
IC505 Q511 Q512
IC502 Q502 Q511
Q511
Q511

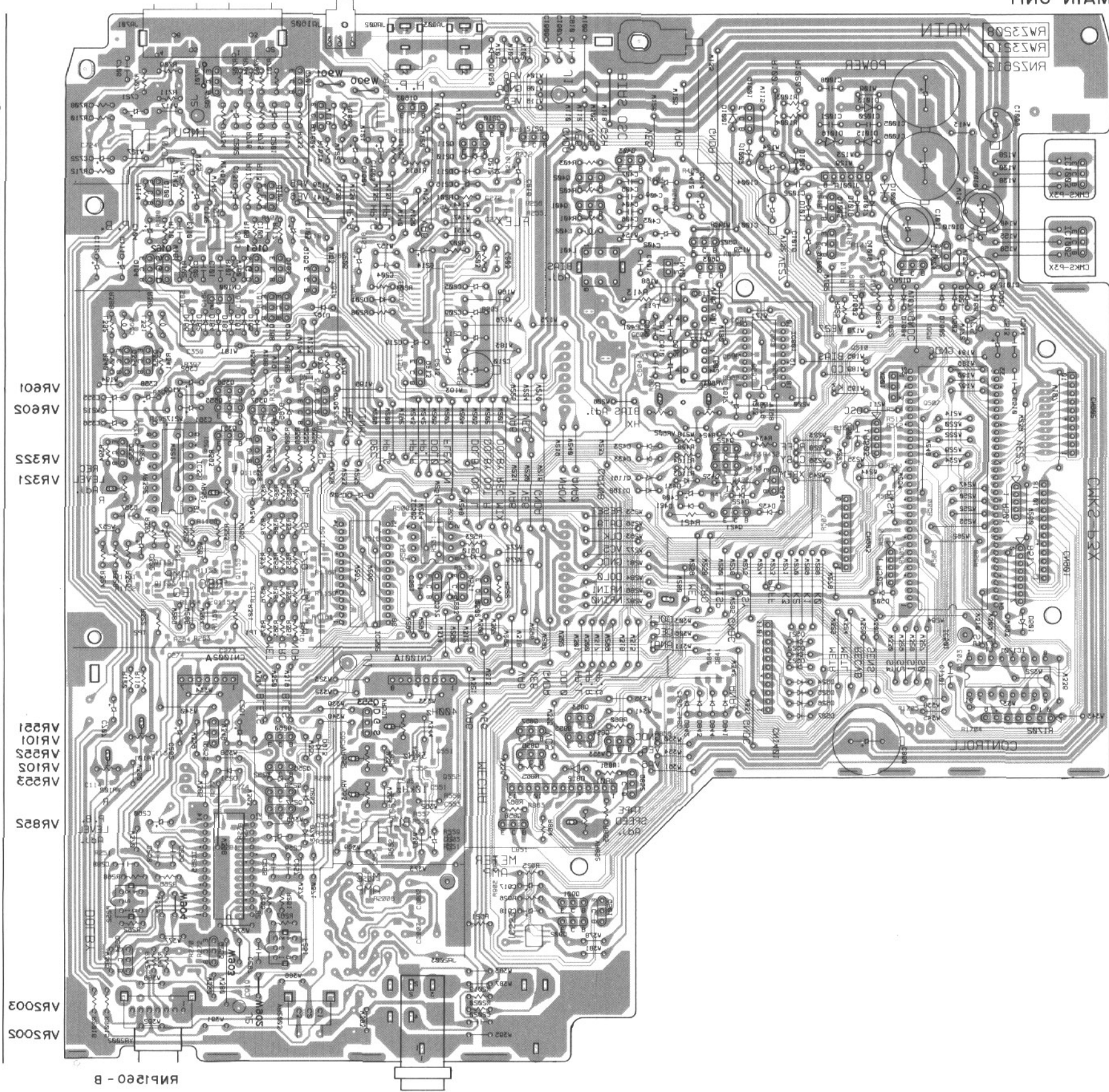
IC1701 Q857 Q858
Q853 Q855 Q553 Q255
Q854 Q856 Q260
VR551
VR101
VR552
VR102
VR553
Q852 Q256 Q258
Q259
Q257
Q858

VR852 Q851
IC255
Q901
Q501
Q902 Q253 Q254

VR2003
VR2002

- This diagram is viewed from the foil side.

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1070 80810
S070 0150
40810 S150 10010
1C701 1150 1C1601
80810 800101
8010 S080 80010
8010 1080 80010
1C101 S080 800101
8010 8080 400101
4810 8080 8010
1810 1010
8810 1C201 Q1010
8810 7810
4880 8880 10801
8880 8150 Q210
8880 7880 S870
S880 1880 8880
Q207
Q1165 S840
18801 1840 8840
10801
Q1151 Q1129 1840
S180 1180 80801
Q1155 S080 S080 1C805
Q1153
Q1157
Q1161
QB41
Q843 10101
Q842 7880 8880
8880 8880 8880 8880
8880 8880
8880 8880 S880
8880 8880 Q551
8880 Q552
8880
1C124 88801
1080
1080
S080
1C223
4880 8880