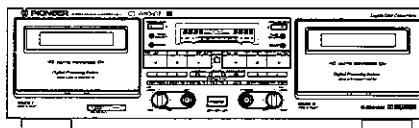


# Service Manual

**PIONEER**  
The Art of Entertainment



ORDER NO.  
RRV1786

STEREO DOUBLE CASSETTE DECK

# CT-W806DR

## CT-07D

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-W806DR	CT-07D		
HYXJ	○	—	AC220-230V	_____
HVXJ	○	—	AC230-240V	_____
SDXJ	○	—	AC110V/120-127V/220V/230-240V	With the voltage selector
KUXJ/CA	—	○	AC120V	_____

## CONTENTS

1. SAFETY INFORMATION .....	2	7. GENERAL INFORMATION .....	44
2. EXPLODED VIEWS AND PARTS LIST .....	3	7.1 PARTS .....	44
3. SCHEMATIC DIAGRAM .....	10	7.1.1 IC .....	44
4. PCB CONNECTION DIAGRAM .....	22	7.1.2 DISPLAY .....	49
5. PCB PARTS LIST .....	34	7.2 TEST MODE .....	50
6. ADJUSTMENT .....	40	7.3 BLOCK DIAGRAM .....	53
		8. PANEL FACILITIES AND SPECIFICATIONS .....	54

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## 1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.



### WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.



### NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols  (fast operating fuse) and/or  (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

### REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible  (fusible de type rapide) et/ou  (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

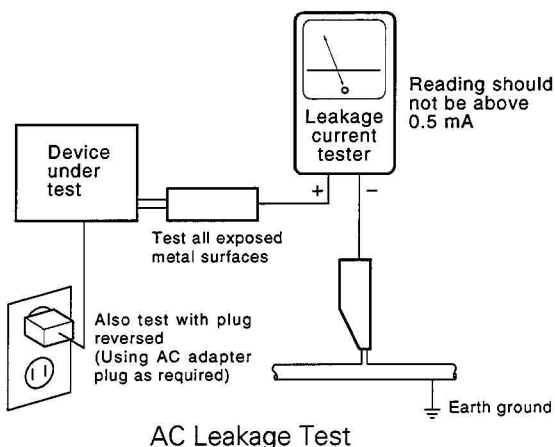
### (FOR USA MODEL ONLY)

#### 1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

#### LEAKAGE CURRENT CHECK


Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



**ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.**

#### 2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  on the schematics and on the parts list in this Service Manual.

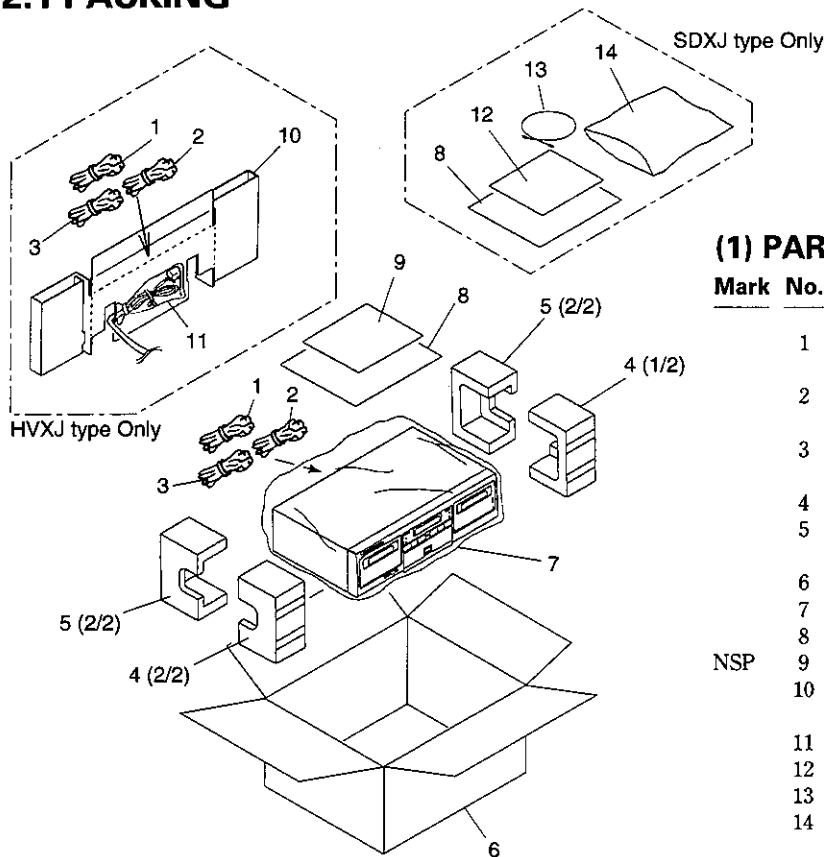
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

## 2. EXPLODED VIEWS AND PARTS LIST

- NOTES : ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.  
 ● The  $\triangle$  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.  
 ● Screw adjacent to  $\nabla$  mark on the product are used for disassembly.

### 2.1 PACKING



#### (1) PARTS LIST

Mark	No.	Description	Parts No.
	1	CONNECTION CORD WITH PIN PLUGS (L=0.9 m)	RDE1036
	2	REMOTE CONTROL CORD (L=1.0 m)	PDE1267
	3	CD - DECK SYNCHRO CONTROL CORD (L=0.9 m)	RDE1044
	4	PAD F	RHA1219
	5	PAD R	RHA1236
	6	PACKING CASE	See Contrast table (2)
	7	SEAT (750 × 600 × 0.5)	Z23-007
	8	OPERATING INSTRUCTIONS	See Contrast table (2)
NSP	9	WARRANTY CARD	See Contrast table (2)
	10	SPACER	See Contrast table (2)
	11	POLY. BAG	See Contrast table (2)
	12	CAUTION 220V LABEL	See Contrast table (2)
	13	OPTICAL CABLE	See Contrast table (2)
	14	POLY. BAG	See Contrast table (2)

#### (2) CONTRAST TABLE

CT-W806DR/HVXJ, HVXJ, SDXJ and CT-07D/KUXJ/CA have the same construction except for the following:

Mark	No.	Description	Part No.				Remarks
			CT-W806DR			CT-07D	
			HYXJ	HVXJ	SDXJ	KUXJ/CA	
NSP	6	Packing Case	RHG1806	RHG1824	RHG1821	RHG1805	
	8	Operating Instructions (English/Spanish)	RRE1152	RRE1152	RRE1152	Not used	
	8	Operating Instructions (French/German/Italian/Dutch/Swedish/Portuguese)	RRD1193	Not used	Not used	Not used	
	8	Operating Instructions (Chinese)	Not used	Not used	RRD1194	Not used	
	8	Operating Instructions (English/French)	Not used	Not used	Not used	RRE1150	
	9	Warranty Card	ARY7009	ARY7009	Not used	ARY7007	
	10	Spacer	Not used	RHC1071	Not used	Not used	
	11	Poly. Bag (115 × 270 × 0.05)	Not used	Z21-013	Not used	Not used	
	12	Caution 220V Label	Not used	Not used	ARR1003	Not used	
	13	Optical Fiber Cable	Not used	Not used	RKX1034	Not used	
	14	Poly. Bag (230 × 340 × 0.03)	Not used	Not used	Z21-038	Not used	





**(1) PARTS LIST**

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	MAIN UNIT	See Contrast table (2)	NSP	21	EARTH LEAD WIRE	DE010VF0
NSP	2	TRN 2 UNIT	See Contrast table (2)	NSP	22	TRN 1 UNIT	See Contrast table (2)
△	3	STRAIN RELIEF	See Contrast table (2)	NSP	23	PCB SPACER	PNY-404
△	4	FUSE (FU1001, FU1002)	See Contrast table (2)	NSP	24	MAIN CHASSIS	RNB1091
△	5	AC POWER CORD	See Contrast table (2)	NSP	25	BINDER	ZCA-T18S
△	6	POWER TRANSFORMER	See Contrast table (2)	△	26	VOLTAGE SELECTOR	See Contrast table (2)
	7	CORE UNIT	RWX1137		27	DISC GUARD	REC1305
	8	INSULATOR	PNW1912		28	65 LABEL	See Contrast table (2)
	9	CORD HOLDER	RNH-184		29	.....	
	10	HEADPHONE KNOB	VNK1262	△	30	FUSE (T5A)	See Contrast table (2)
	11	REAR PANEL	See Contrast table (2)	NSP	31	FUSE CAUTION LABEL	See Contrast table (2)
	12	DIR UNIT	See Contrast table (2)	NSP	32	PLATE	See Contrast table (2)
	13	JACK UNIT	See Contrast table (2)				
NSP	14	SHIELD CASE	RNE1904				
	15	SCREW	BBZ30P060FMC				
	16	SCREW	BBZ30P080FZK				
	17	SCREW	IBZ30P150FCC				
	18	BONNET	REA1254				
NSP	19	SPACER (CR)	REB1267				
	20	SPACER	REB1171				

**(2) CONTRAST TABLE**

CT-W806DR/HYXJ, HVXJ, SDXJ and CT-07D/KUXJ/CA have the same construction except for the following:

Mark	No.	Description	Part No.				Remarks
			CT-W806DR			CT-07D	
			HYXJ	HVXJ	SDXJ	KUXJ/CA	
NSP	1	MAIN Unit	RWZ4091	RWZ4089	RWZ4095	RWZ4101	
	2	TRN 2 Unit	RWZ4093	RWZ4093	RWZ4093	RWZ4099	
△	3	Strain Relief	CM-22B	CM-22B	CM-22B	CM-22C	
	4	Fuse (FU1001, FU1002)	REK1024 (T1.6AL250V)	REK1024 (T1.6AL250V)	REK1024 (T1.6AL250V)	REK1058 (1.25A/250V)	
△	5	AC Power Cord	PDG1058	PDG1055	ADG1157	PDG1015	
△	30	Fuse (T5A) (For AC Power Cord)	Not used	PEK1003	Not used	Not used	
△	6	Power Transformer (AC220-230V/230-240V)	RTT1338	RTT1338	Not used	Not used	
△	6	Power Transformer (AC110V/120-127V/220V/230-240V)	Not used	Not used	RTT1339	Not used	
△	6	Power Transformer (AC120V)	Not used	Not used	Not used	RTT1337	
	11	Rear Panel	RNA2151	RNA2165	RNA2161	RNA2150	
	12	DIR Unit	RWX1134	RWX1133	RWX1134	RWX1133	
NSP	13	JACK Unit	RWX1136	RWX1135	RWX1136	RWX1135	
	22	TRN 1 Unit	Not used	Not used	RWZ4096	Not used	
△	26	Voltage Selector	Not used	Not used	RSB1022	Not used	
	28	65 Label	Not used	Not used	Not used	ORW1069	
NSP	31	Fuse Caution Label	Not used	Not used	Not used	RRW-111	
NSP	32	Plate	Not used	Not used	DEC1158	Not used	



## (1) PARTS LIST

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
NSP	1	SUBB UNIT	See Contrast table (2)		26	NAME PLATE	PAM1608
	2	POC2 UNIT	RWZ4122		27	REMAIN DISPLAY PAPER	REE-113
	3	LEAD CARD 35P	RDD1285		28	SEALING SPRING	RBH1439
	4	MECHANISM UNIT	RYM1262		29	LOADING BASE ASSY 2	RXA1750
	5	DC MOTOR/0.75W	PXM1010		30	INDICATOR LENS	RAC2157
	6	RUBBER BELT	PEB1127		31	SCREW	BBZ30P080FZK
	7	MOTOR PULLEY	PNW1634	NSP	32	TIMER UNIT	See Contrast table (2)
	8	PULLEY GEAR	RNK1517		33	SLIDE KNOB	See Contrast table (2)
	9	HALF PRESSURE SPRING	RBK1004		34	SEALING PANEL	See Contrast table (2)
	10	ARM GEAR	RNK2242		35	EJECT BUTTON	REA1267
	11	LOADING BASE ASSY 1	RXA1741	NSP	36	EARTH LEAD WIRE	DE010VF0
	12	JOINT ARM	RNK2243		37	CONNECTOR ASSY 5P	RKP1676
NSP	13	POC1 UNIT	RWZ4121		38	CONNECTOR ASSY 5P	RKP1677
NSP	14	MOTOR 1 UNIT	RWZ4207		39	SCREW	BBZ26P060FMC
NSP	15	MOTOR 2 UNIT	RWZ4208		40	.....	
	16	SCREW	IPZ20P080FMC		41	.....	
	17	SCREW	BMZ26P040FMC		42	CUSHION	PDE-049
	18	POWER BUTTON	See Contrast table (2)		43	CUSHION	RED1040
	19	FUNCTION BUTTON A	RAC2170	NSP	44	SHIELD CORE	RNE1928
	20	FUNCTION BUTTON B	RAC2171		45	SCREW	BBZ30P100FMC
	21	FL LENS	See Contrast table (2)				
	22	FRONT PANEL	See Contrast table (2)				
	23	DOOR POCKET L	See Contrast table (2)				
	24	DOOR POCKET R	See Contrast table (2)				
	25	DOOR LENS	RAH2782				

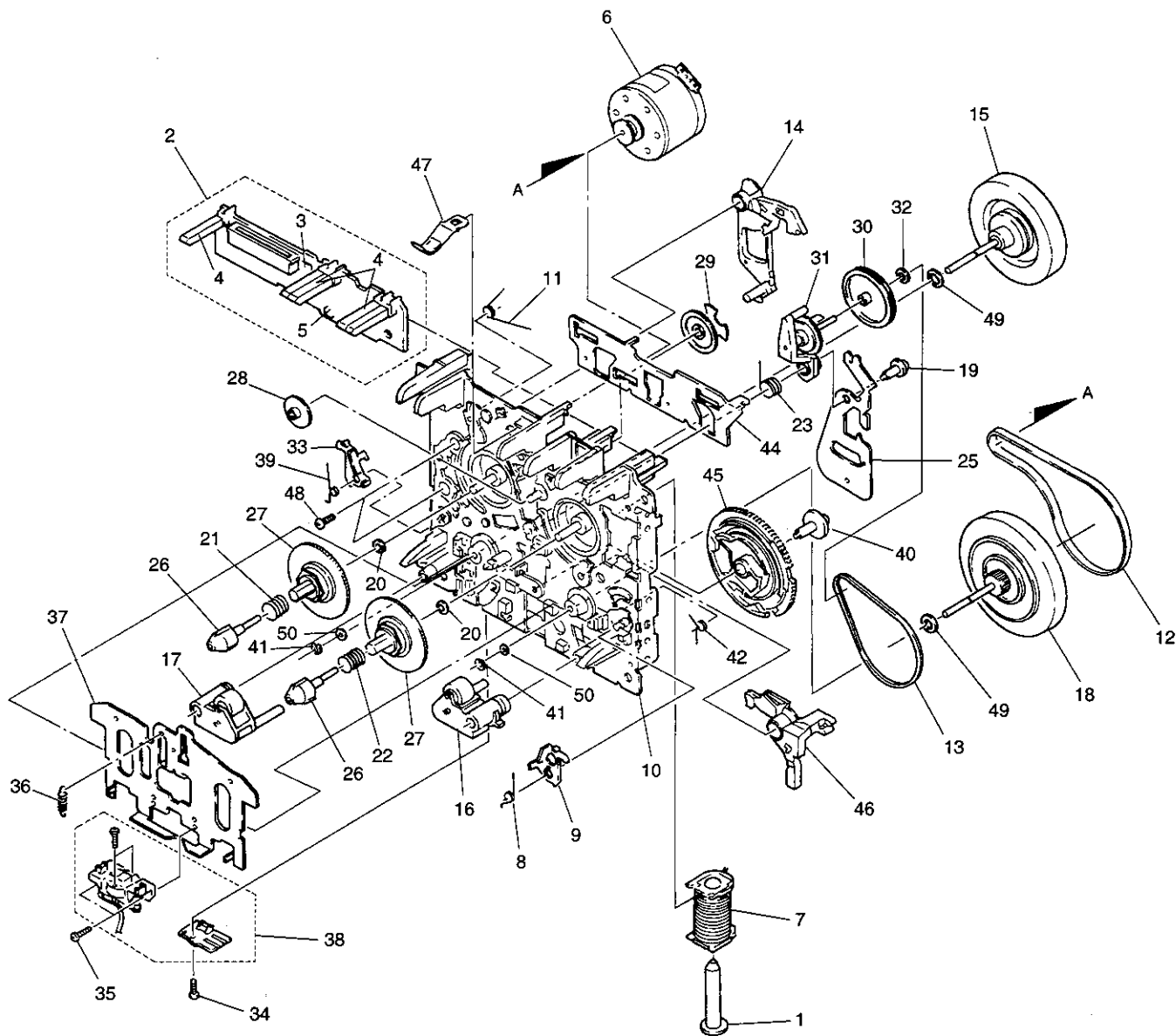
## (2) CONTRAST TABLE

CT-W806DR/HYXJ, HVXJ, SDXJ and CT-07D/KUXJ/CA have the same construction except for the following:

Mark	No.	Description	Part No.				Remarks
			CT-W806DR			CT-07D	
			HYXJ	HVXJ	SDXJ	KUXJ/CA	
NSP	1	SUBB Unit	RWZ4092	RWZ4092	RWZ4092	RWZ4102	
	18	Power Button	RAC2156	RAC2156	RAC2156	RAC2179	
	21	FL Lens	RAH2810	RAH2810	RAH2809	RAH2809	
	22	Front Panel	RAH2794	RAH2794	RAH2794	RAH2796	
	23	Door Pocket L	RAH2792	RAH2792	RAH2792	RAH2797	
	24	Door Pocket R	RAH2793	RAH2793	RAH2793	RAH2798	
	32	TIMER Unit	RWZ4094	RWZ4094	RWZ4094	Not used	
	33	Slide Knob	RAC1713	RAC1713	RAC1713	Not used	
	34	Sealing Panel	RAH2795	RAH2795	RAH2795	RAH2799	

# CT-W806DR, CT-07D

## 2.4 MECHANISM UNIT



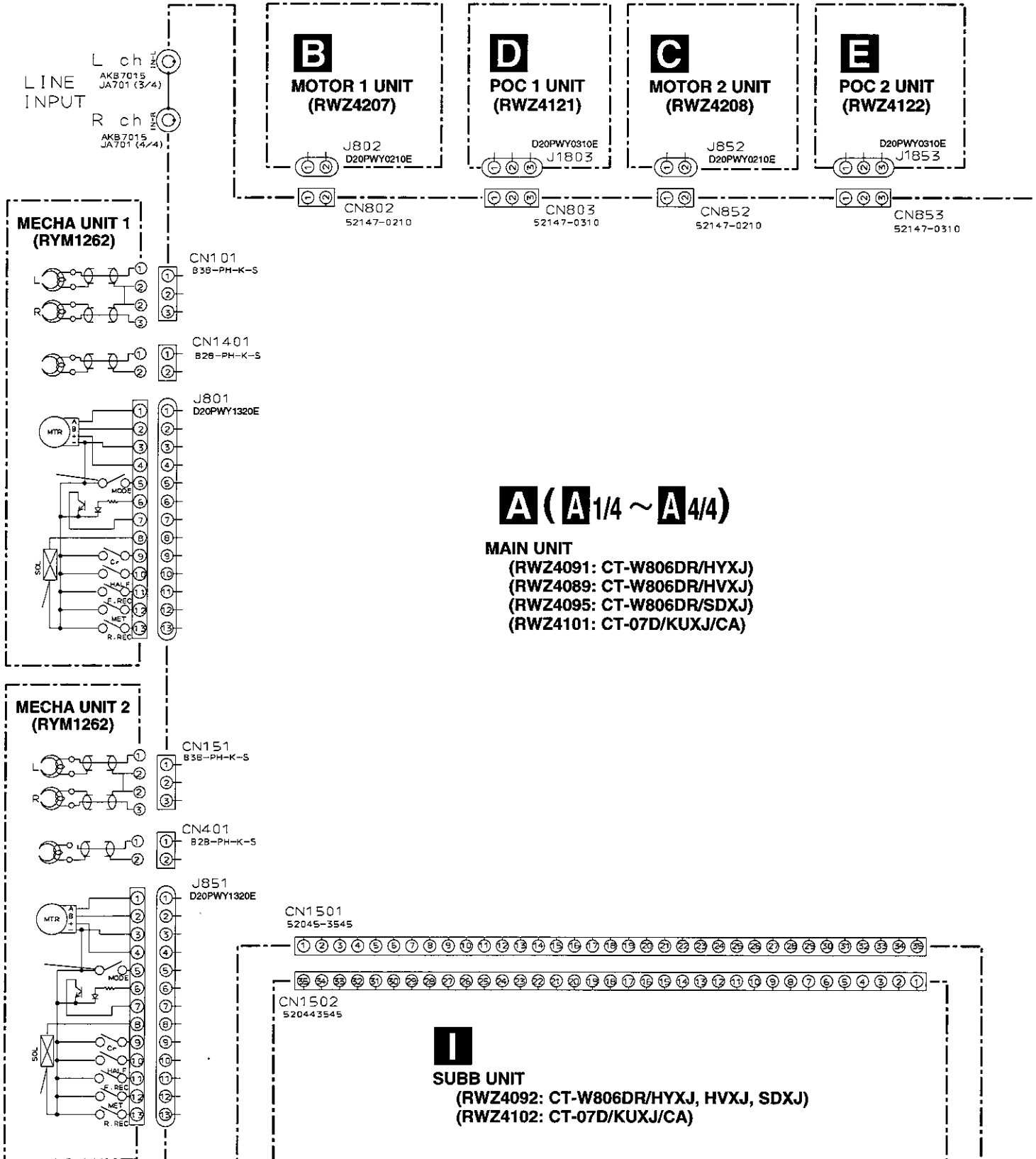
Mark No.	Description	Parts No.
1	PLUNGER	RLA1288
2	PCB CONTROL BLOCK	RXA1733
3	PUSH SWITCH	RSG1018
4	SPLF	RSN1023
5	PHOTO-TRANSISTOR	SPI33534FG
6	MTR MAIN BLOCK	RXM1075
7	SOLENOID BLOCK	RXP1021
8	SPRING INTERLOCK R	RBH1386
9	ARM INTERLOCK R	RNE1781
10	CHASSIS BASE BLOCK	RXA1626
11	SPRING BRAKE	RBH1387
12	MAIN BELT	REB1157
13	F/R BELT	REB1254
14	LEVER BRAKE	RNK2071
15	F/W ASSY	RXA1295
16	PINCH ROLLER BLOCK R	RXA1628
17	PINCH ROLLER BLOCK L	RXA1629
18	CLUTCH BLOCK ASSY	RXA1631
19	SCREW	RBA1120
20	WASHER	W41D065D025
21	SPRING REEL(L)	RBH1388
22	SPRING REEL(R)	RBH1389
23	CAM SPRING	RBH1393
24	.....	
25	LEVER F/R	RNE1782
26	REEL FEATHER	RNK2072
27	REEL BASE	RNK2073
28	PLAY GEAR(A)	RNK2074
29	FF GEAR(A)	RNK2075
30	F/R PULLEY	RNK2076
31	CLUTCH BLOCK ASSY	RXA1632
32	WASHER	WA17D040D025
33	ARM INTERLOCK L	RNE1780
34	SCREW	PCZ20P040FMC
35	SCREW	PMZ20P060FMC
36	SPRING HB	RBH1390
37	HEAD BASE	RNE1783
38	PLATE HD BLOCK	RXA1683
39	SPRING INTERLOCK L	RBH1385
40	SCREW	RBA1121
41	STOP RING	YE15FUC
42	SPRING ARM PLAY	RBH1392
43	.....	
44	PLATE SLIDE	RNE1785
45	CAM GEAR	RNK2078
46	ARM PLAY	RNK2079
47	SPRING CASSETTE	RNE1786
48	SCREW	BMZ26P040FZK
49	WASHER	WA26D045D025
50	WASHER	WA26D047D050

# CT-W806DR, CT-07D

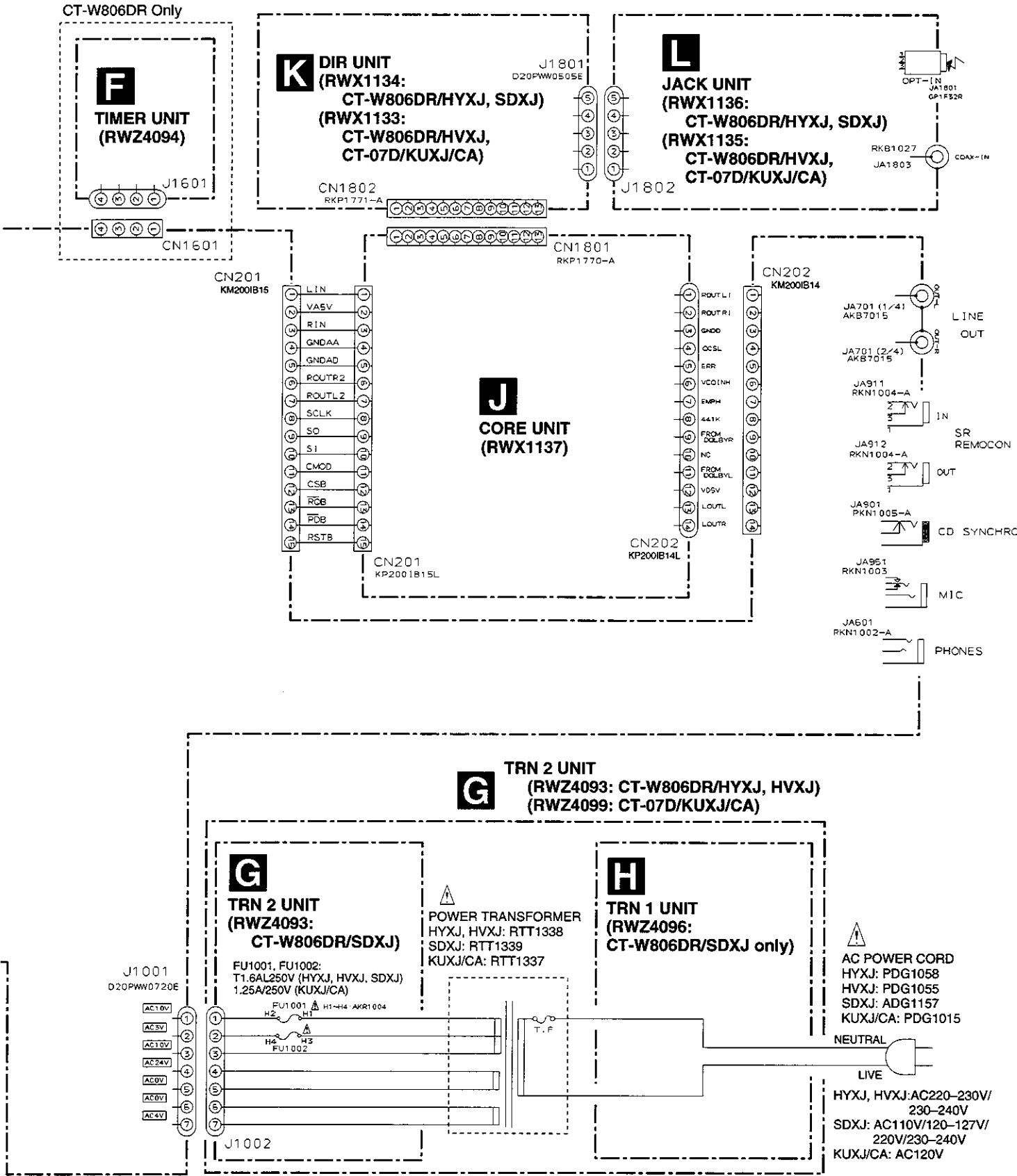
## 3. SCHEMATIC DIAGRAM

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "PCB PARTS LIST".

### 3.1 OVERALL SCHEMATIC DIAGRAM

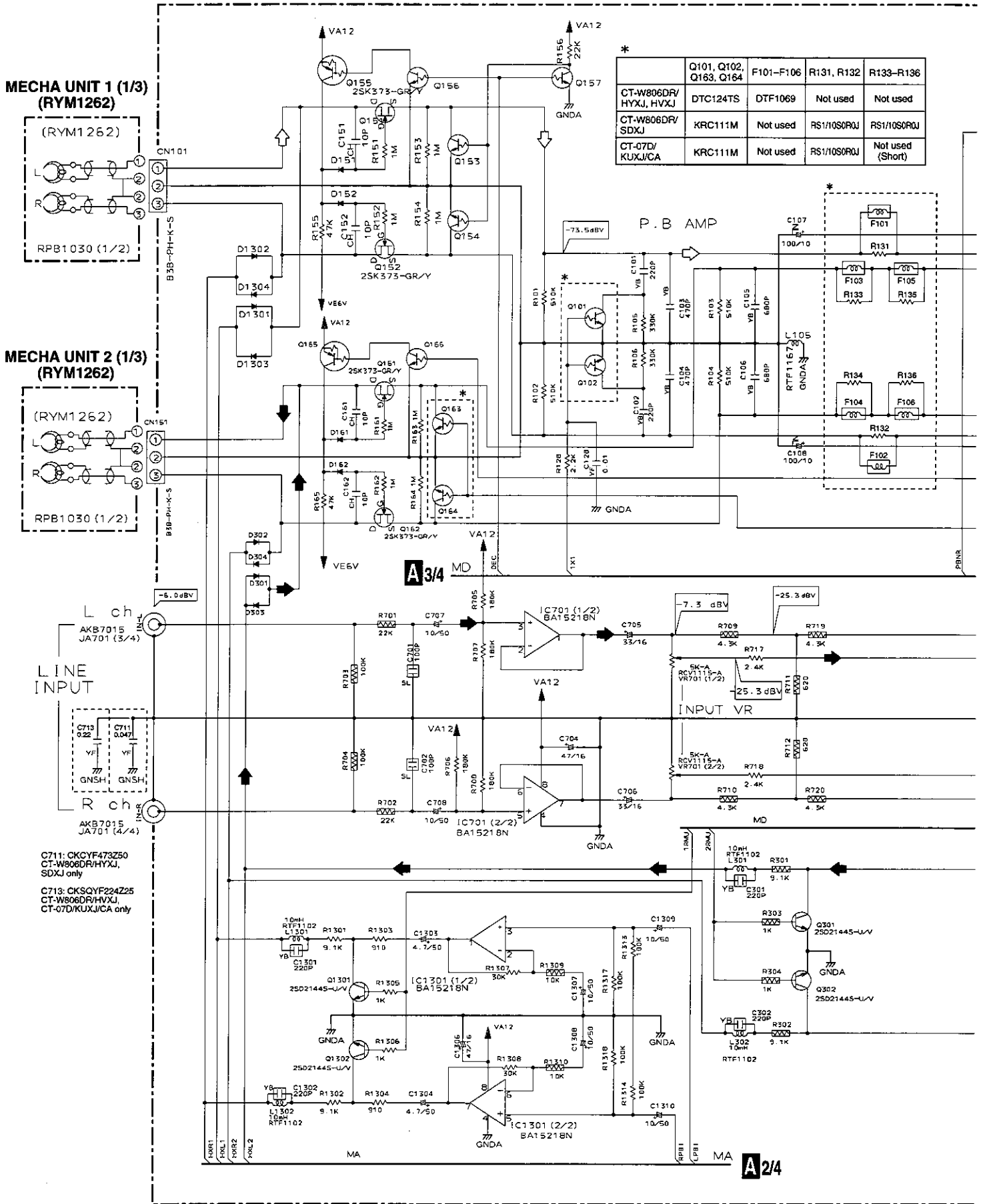


# CT-W806DR, CT-07D



# CT-W806DR, CT-07D

## 3.2 MAIN UNIT (1/4)

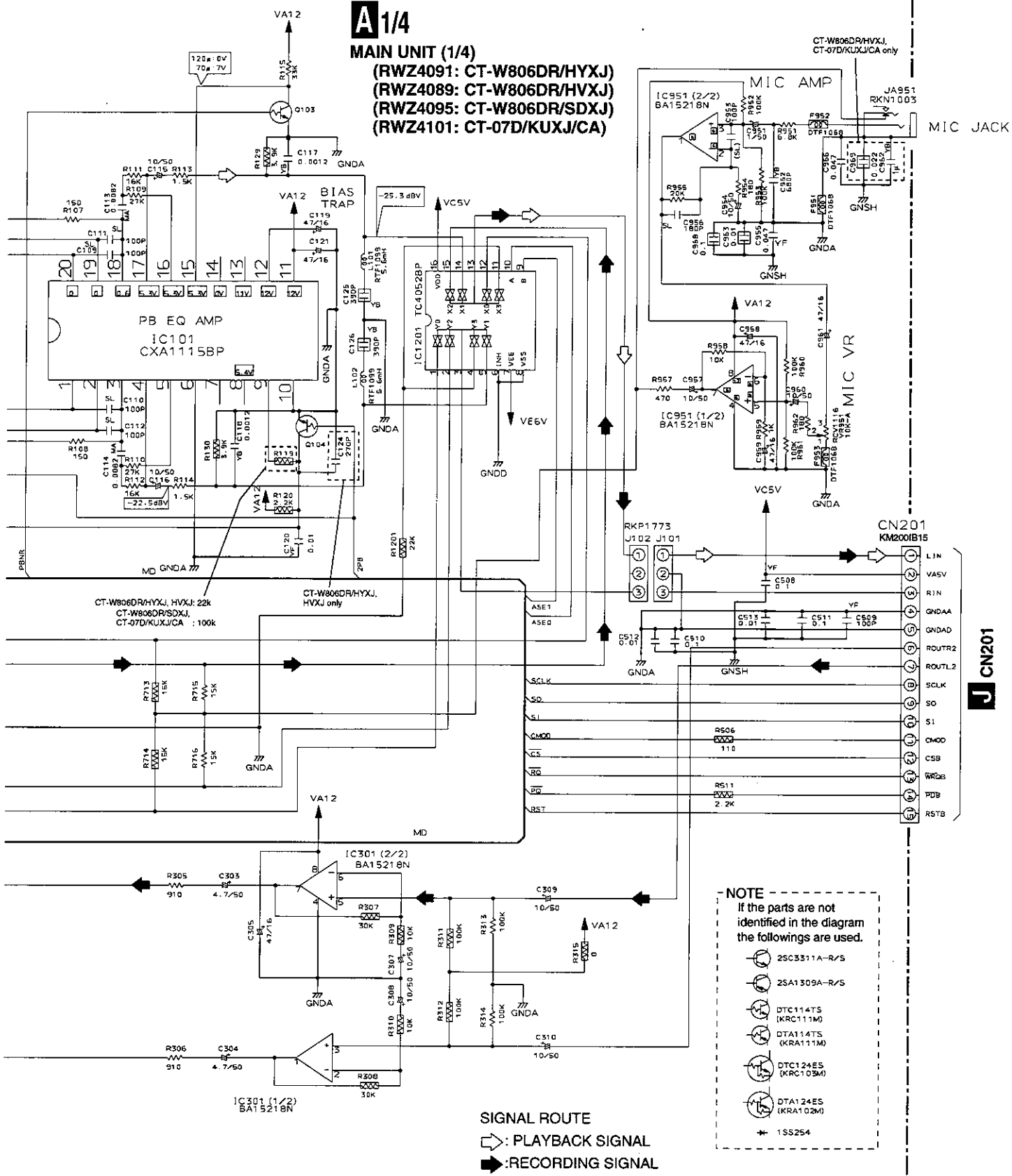




**A 1/4**

**MAIN UNIT (1/4)**

- (RWZ4091: CT-W806DR/HVXJ)
- (RWZ4089: CT-W806DR/HVXJ)
- (RWZ4095: CT-W806DR/SDXJ)
- (RWZ4101: CT-07D/KUXJ/CA)



# CT-W806DR, CT-07D

## 3.3 MAIN UNIT (2/4)

MECHA UNIT 1 (2/3)  
(RYM1262)

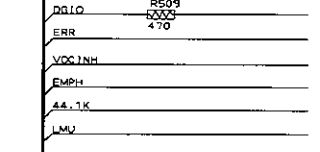
**A** 2/4

MAIN UNIT (2/4)

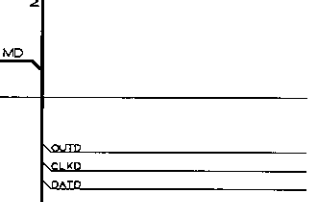
- (RWZ4091: CT-W806DR/HYXJ)
- (RWZ4089: CT-W806DR/HVXJ)
- (RWZ4095: CT-W806DR/SDXJ)
- (RWZ4101: CT-07D/KUXJ/CA)

**A** 3/4

MD



MD



MD



MD



MD



MD



MD



MD



MD



MD



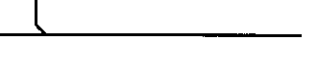
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MD

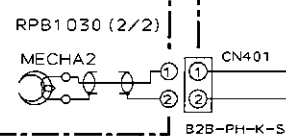


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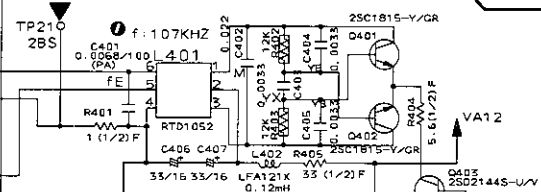


MD

MECHA UNIT 2 (2/3)  
(RYM1262)



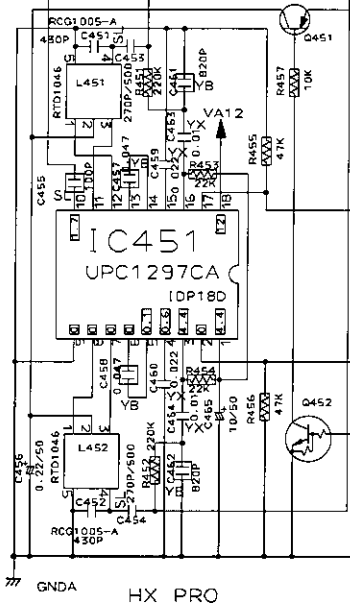
BIAS OSC



VCSV

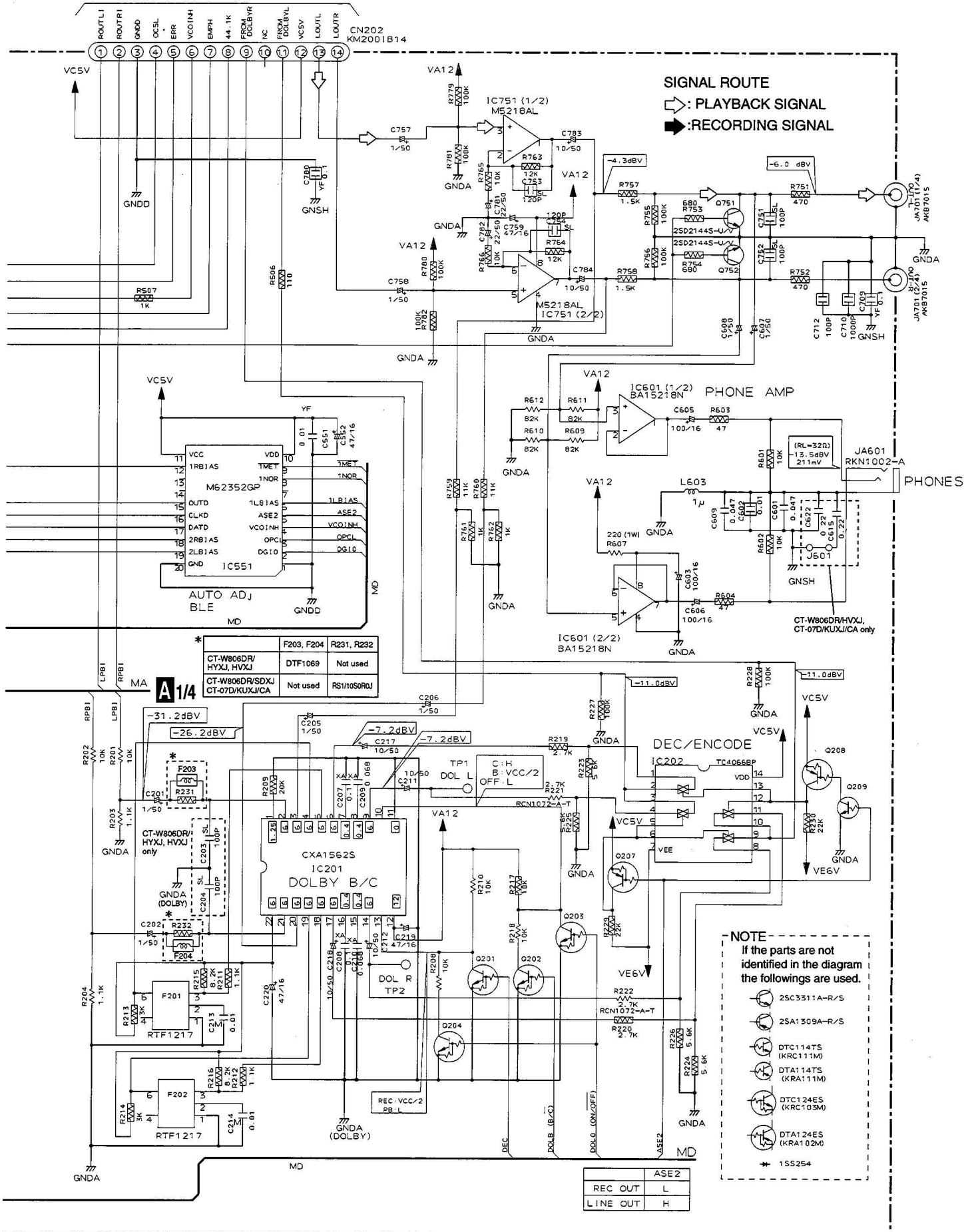
VCSV

VCSV

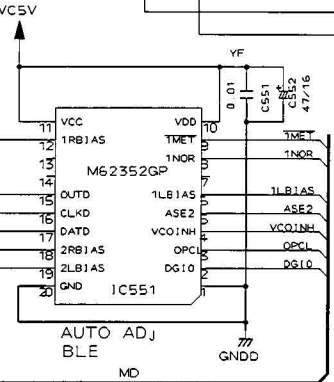


HX PRO

**J** CN202



**SIGNAL ROUTE**  
 ⇨ : PLAYBACK SIGNAL  
 ⇩ : RECORDING SIGNAL



	F203, F204	R231, R232
CT-W806DR/HYXJ, HVXJ	DTF1069	Not used
CT-W806DR/SDXJ CT-07D/KUXJ/CA	Not used	RS110SOR0J

**NOTE**  
 If the parts are not identified in the diagram the followings are used.

- 2SC3311A-R/S
- 2SA1309A-R/S
- DTC1147S (KRC111M)
- DTA1147S (KRA111M)
- DTC124ES (KRC103M)
- DTA124ES (KRA102M)
- ★ 1SS254

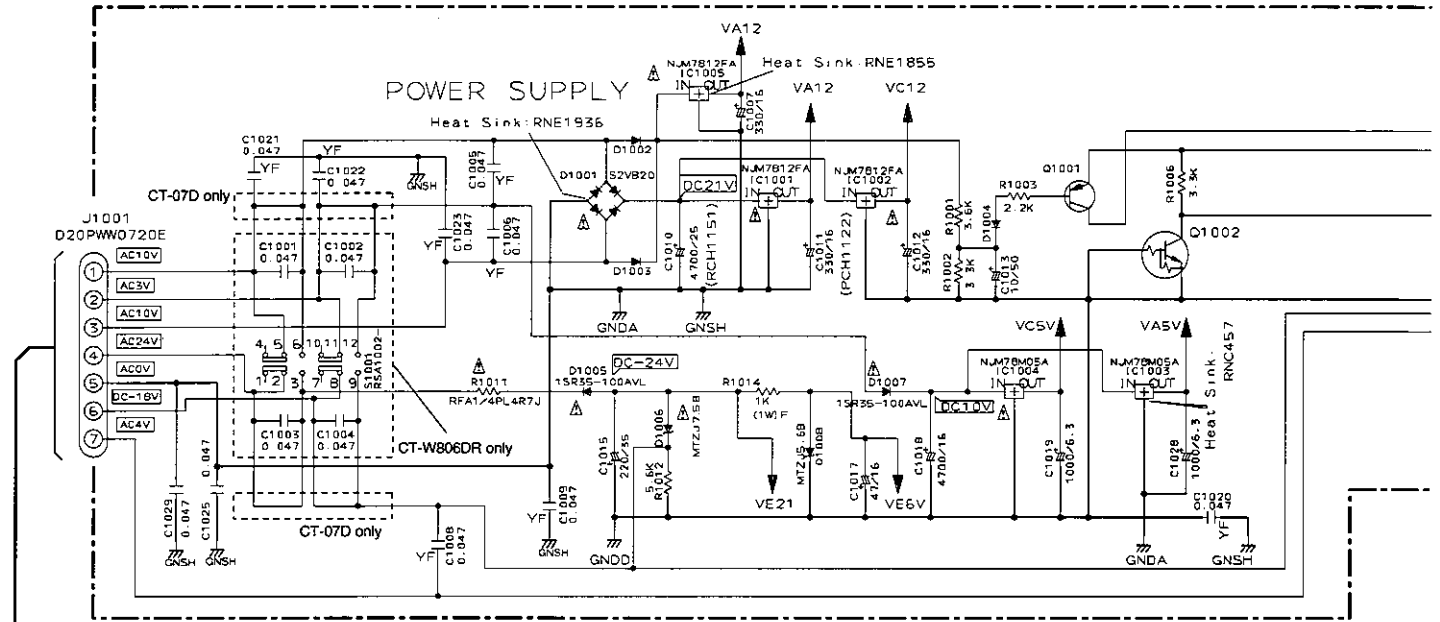
REC OUT	L
LINE OUT	H



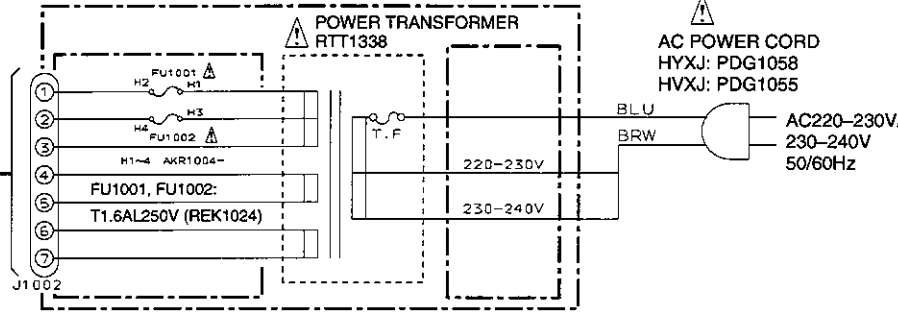


# CT-W806DR, CT-07D

## 3.5 MAIN UNIT (4/4), TRN 1 UNIT, TRN 2 UNIT AND SUB UNIT

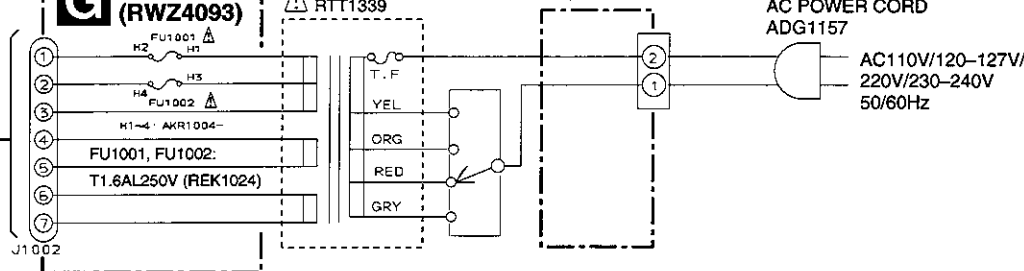


### FOR CT-W806DR/HVXJ, HVXJ **G** TRN 2 UNIT (RWZ4093)

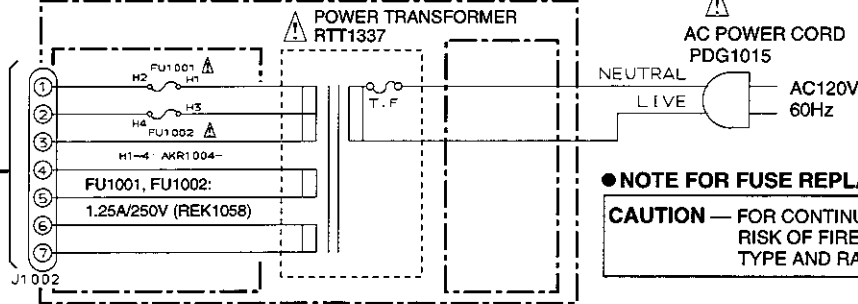


- NOTE**  
If the parts are not identified in the diagram the followings are used.
- 2SC3311A-R/S
  - 2SA1309A-R/S
  - DTC1147S (KRC111M)
  - DTA1147S (KRA111M)
  - DTC124ES (KRC103M)
  - DTA124ES (KRA102M)
  - 1SS254

### FOR CT-W806DR/SDXJ **H** TRN 1 UNIT (RWZ4096)



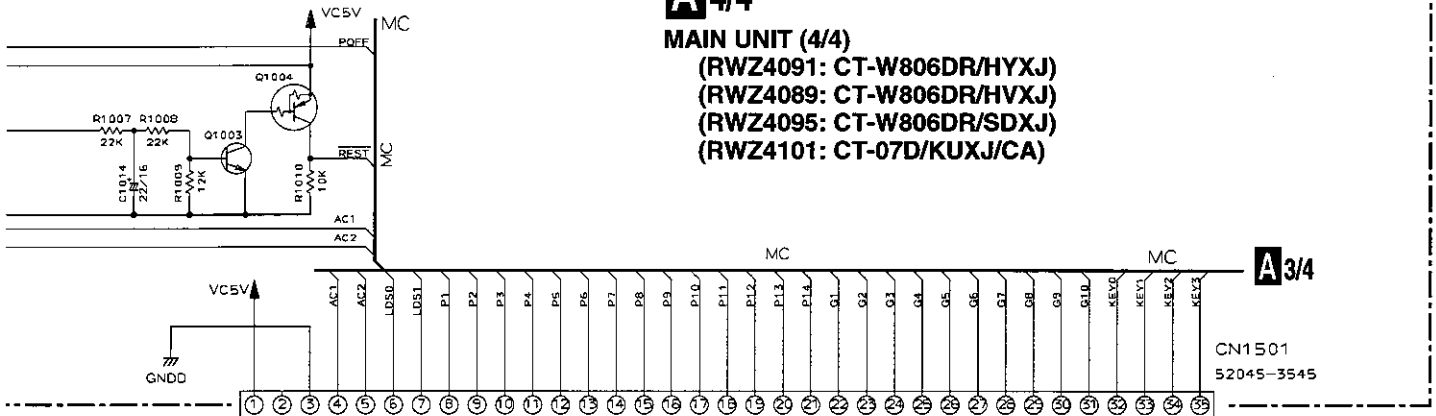
### FOR CT-07D/KUXJ/CA **G** TRN 2 UNIT (RWZ4099)



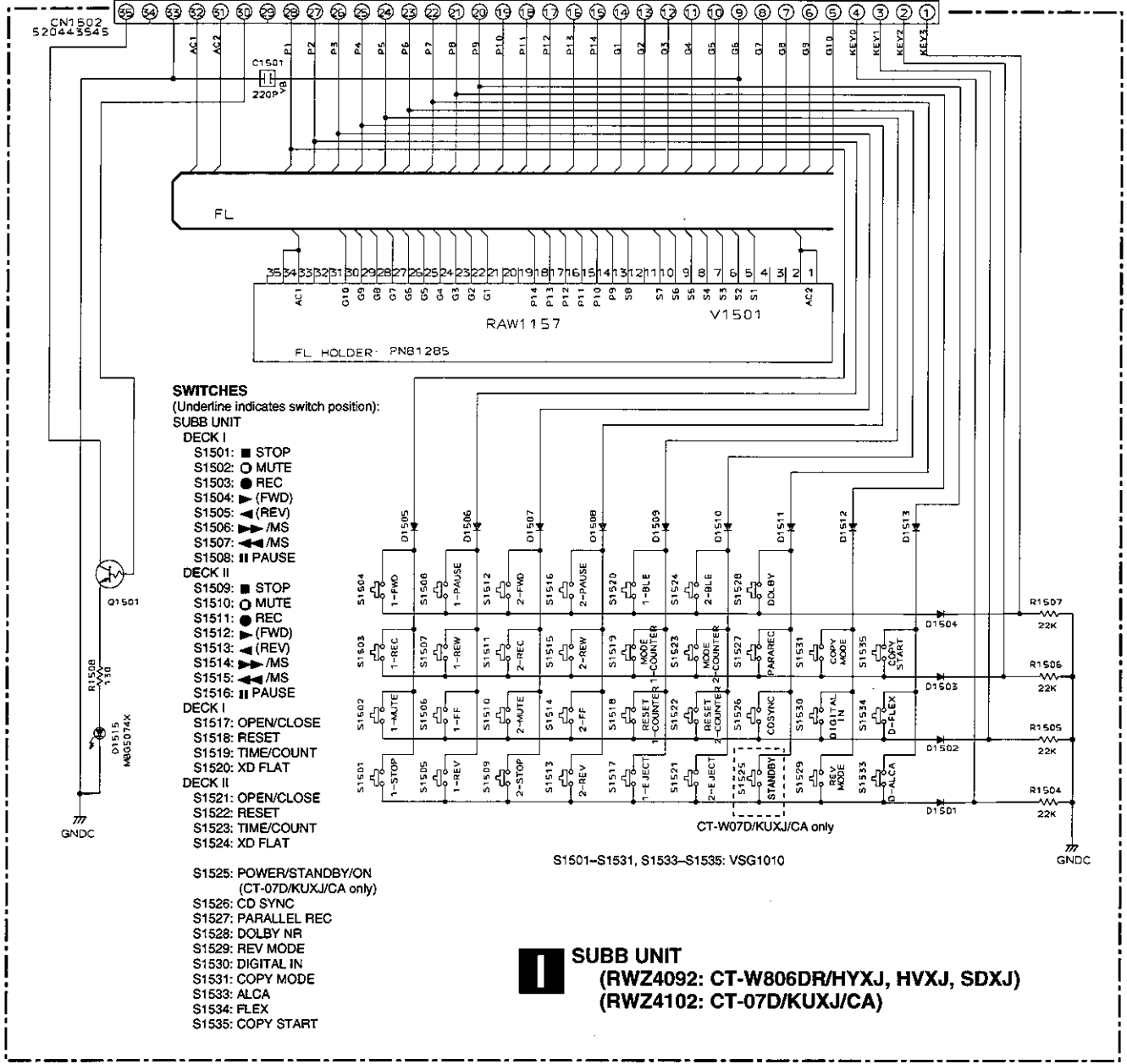
**NOTE FOR FUSE REPLACEMENT**  
**CAUTION** — FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

**A 4/4**

**MAIN UNIT (4/4)**  
 (RWZ4091: CT-W806DR/HYXJ)  
 (RWZ4089: CT-W806DR/HVXJ)  
 (RWZ4095: CT-W806DR/SDXJ)  
 (RWZ4101: CT-07D/KUXJ/CA)



**A 3/4**



**SWITCHES**  
 (Underline indicates switch position):  
 SUBB UNIT

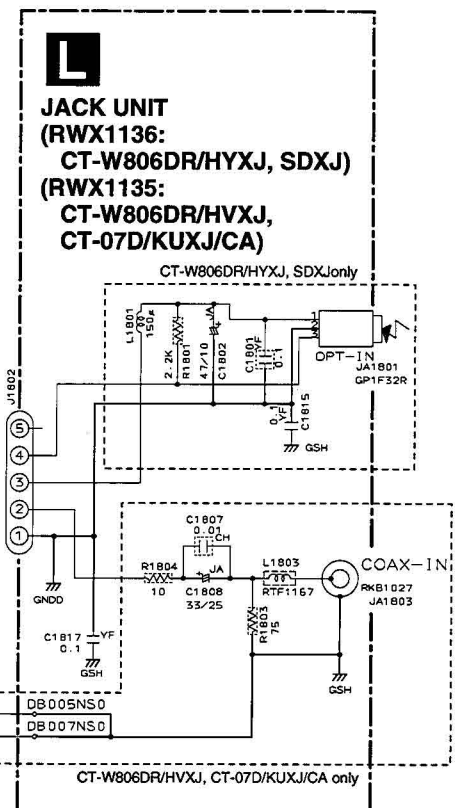
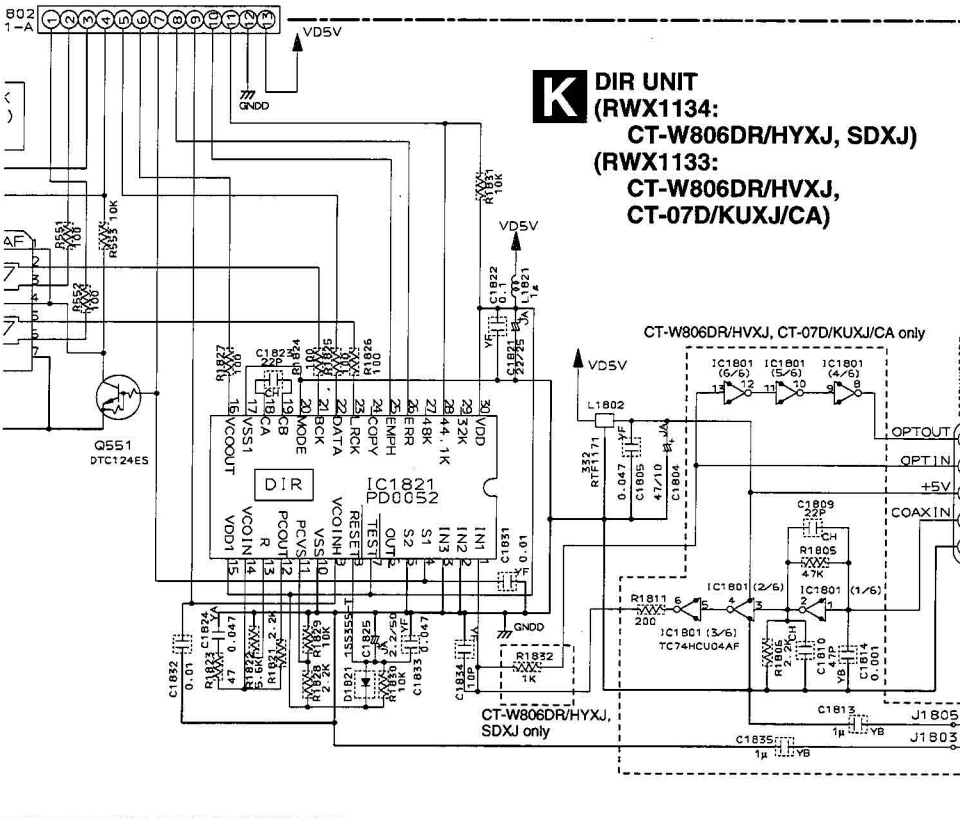
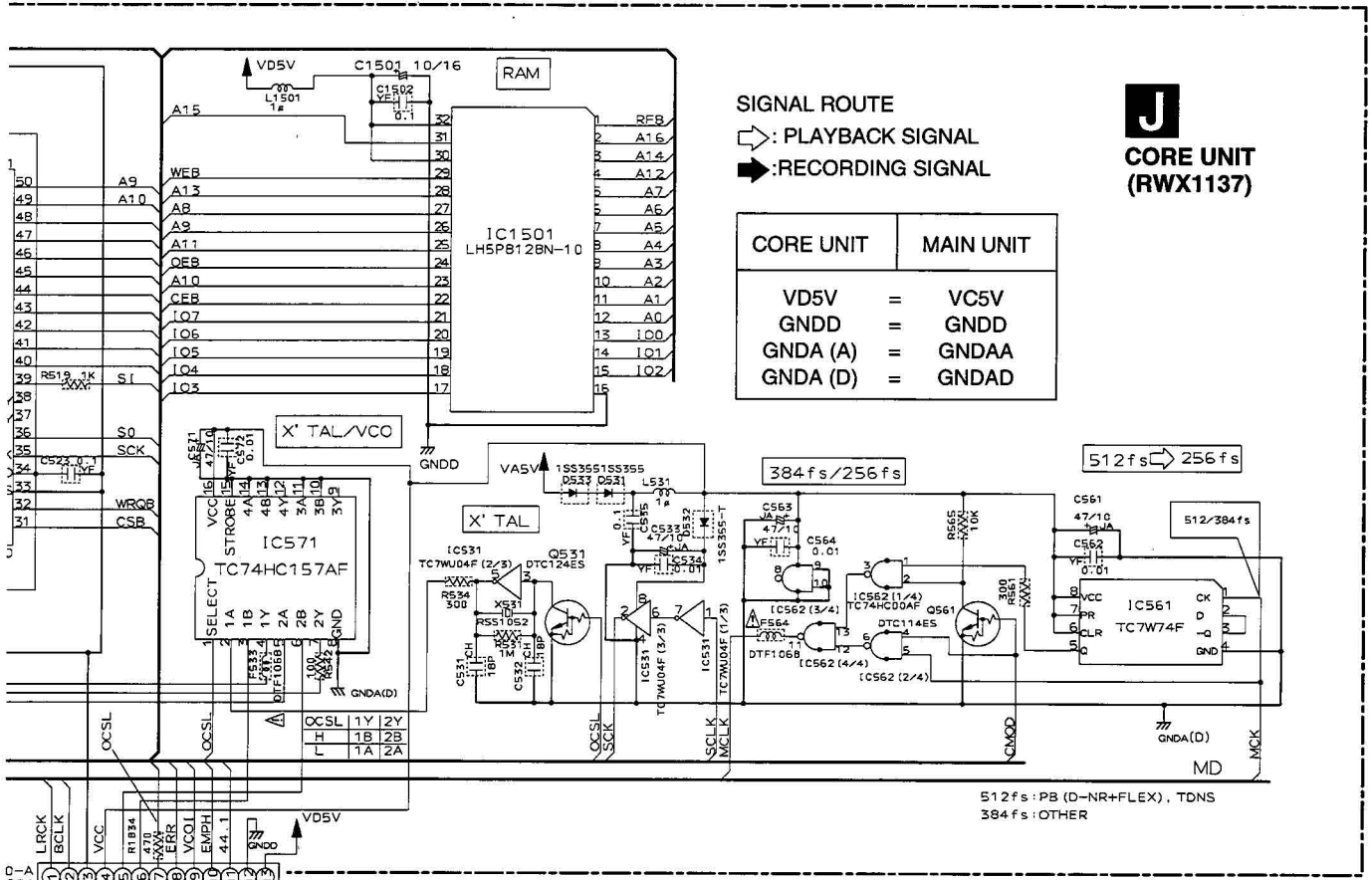
- DECK I**
- S1501:  STOP
  - S1502:  MUTE
  - S1503:  REC
  - S1504:  (FWD)
  - S1505:  (REV)
  - S1506:  /MS
  - S1507:  /MS
  - S1508:  PAUSE
- DECK II**
- S1509:  STOP
  - S1510:  MUTE
  - S1511:  REC
  - S1512:  (FWD)
  - S1513:  (REV)
  - S1514:  /MS
  - S1515:  /MS
  - S1516:  PAUSE
- DECK I**
- S1517: OPEN/CLOSE
  - S1518: RESET
  - S1519: TIME/COUNT
  - S1520: XD FLAT
- DECK II**
- S1521: OPEN/CLOSE
  - S1522: RESET
  - S1523: TIME/COUNT
  - S1524: XD FLAT
- S1525: POWER/STANDBY/ON  
 (CT-07D/KUXJ/CA only)
- S1526: CD SYNC
- S1527: PARALLEL REC
- S1528: DOLBY NR
- S1529: REV MODE
- S1530: DIGITAL IN
- S1531: COPY MODE
- S1533: ALCA
- S1534: FLEX
- S1535: COPY START

S1501-S1531, S1533-S1535: VSG1010

**I SUBB UNIT**  
 (RWZ4092: CT-W806DR/HYXJ, HVXJ, SDXJ)  
 (RWZ4102: CT-07D/KUXJ/CA)







# CT-W806DR, CT-07D

## 4. PCB CONNECTION DIAGRAM

### 4.1 MAIN UNIT

To MECHA UNIT 1 ERACE HEAD **G** J1002 **J** CN201 **I** CN1502

Q902 Q202  
Q204

Q1401 Q551  
Q1403 Q552  
Q1403 Q559  
IC1451  
Q1451 Q562  
Q1452

IC1003 Q771  
IC1004 Q773

Q1001  
Q1004  
IC591

IC1005  
VR801  
VR852

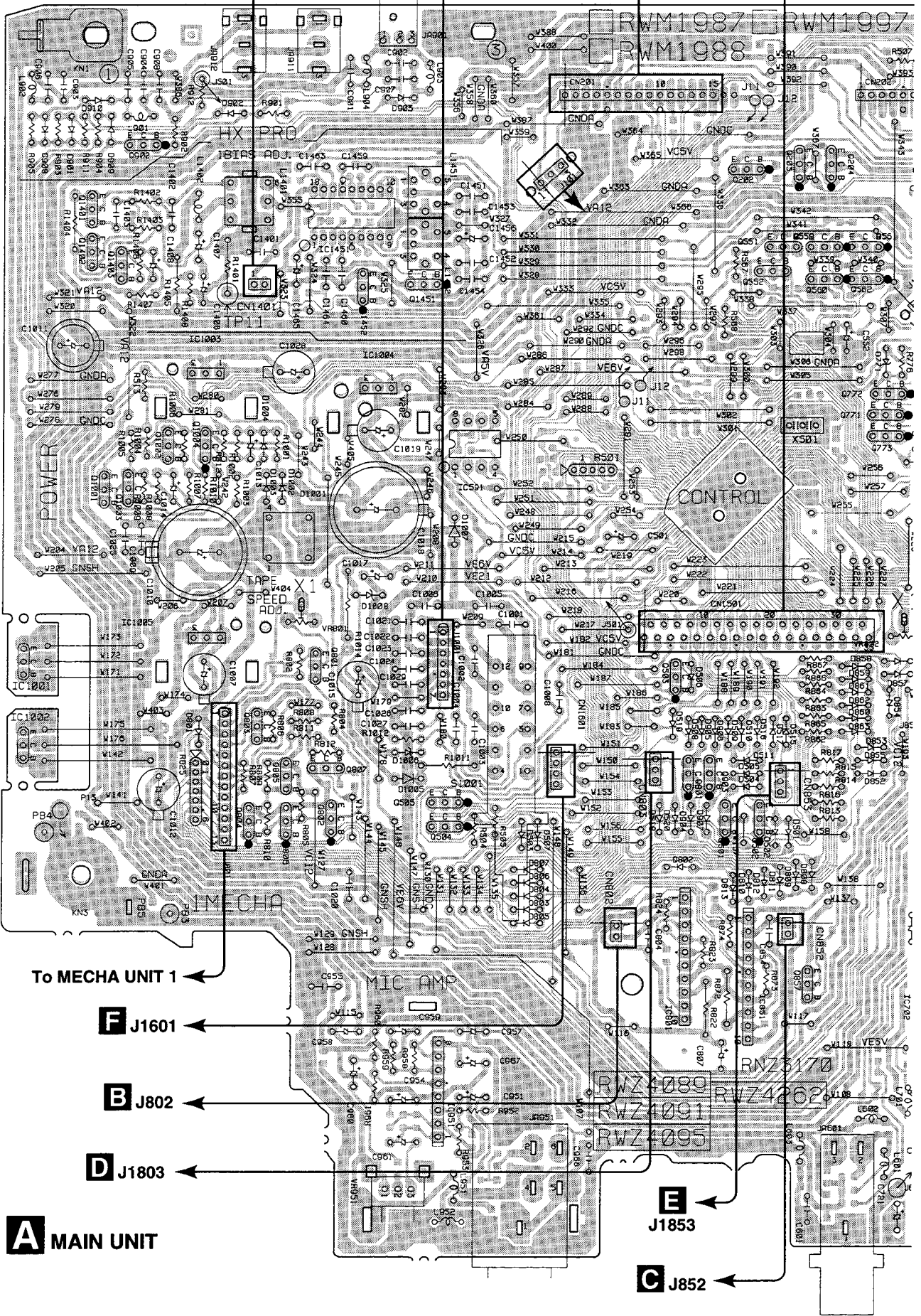
IC1001 Q503  
Q801

IC1002 Q802  
Q807 Q901  
Q504 Q903  
Q505 Q501  
Q502

Q857  
IC801  
IC851

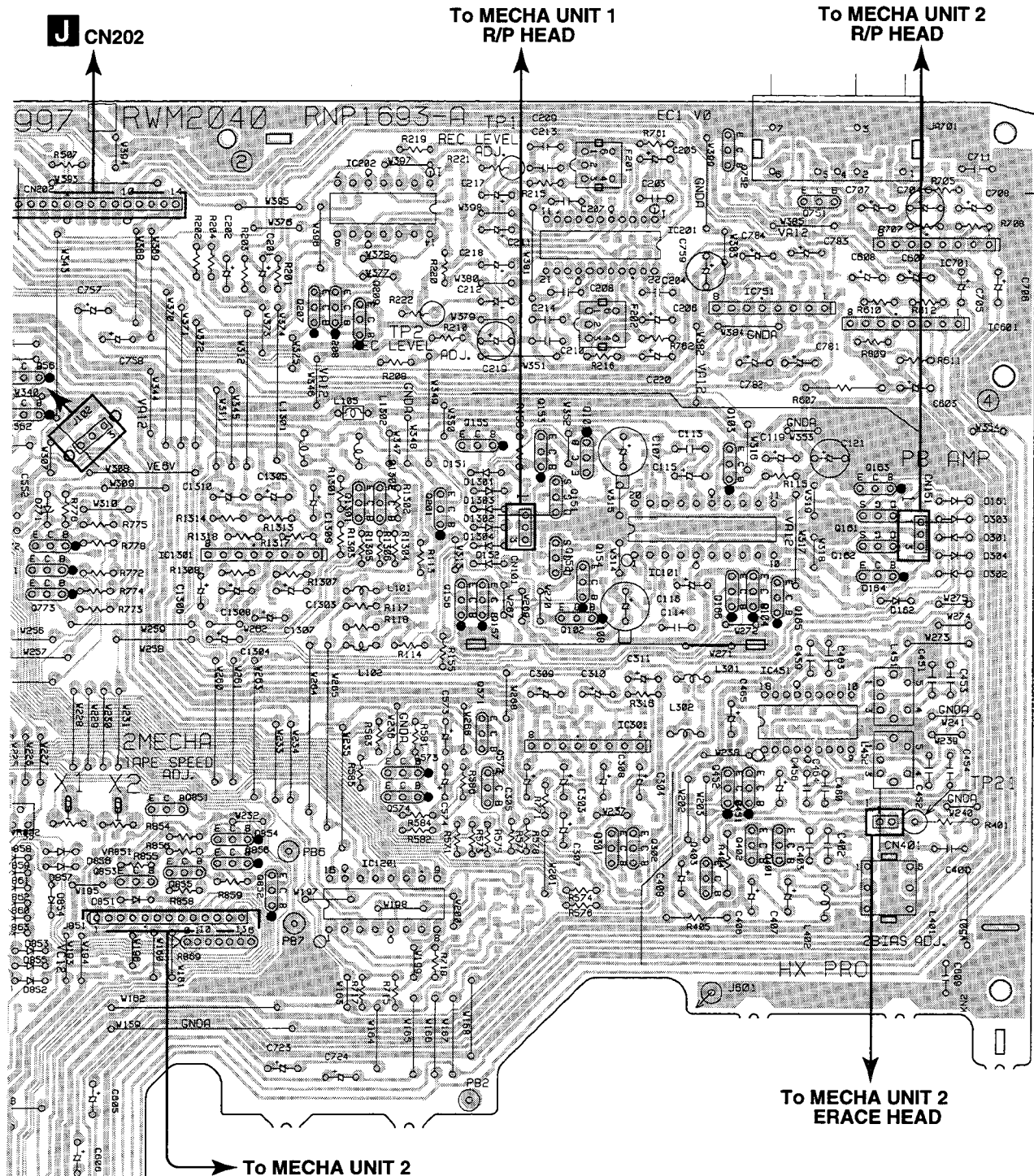
IC951

VR951



**A** MAIN UNIT

**A**



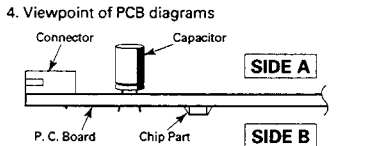
**SIDE A**  
(RNP1693-A)

**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

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destination.  
 For further information for respective destinations, be sure to check with the schematic diagram.

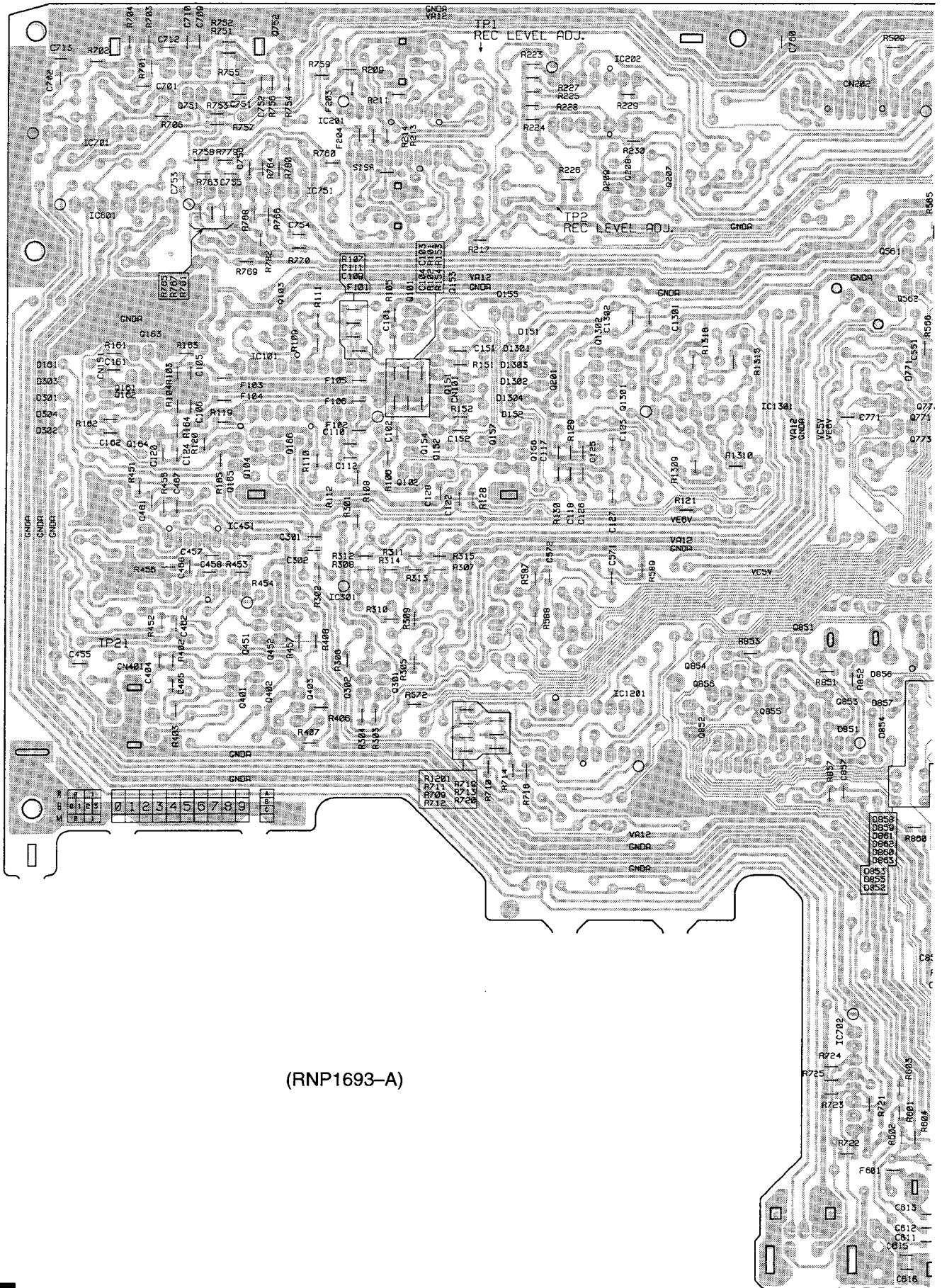


- IC202
- Q207
- Q209
- Q155
- Q153
- Q101
- Q1301
- Q1302
- Q201
- Q151
- IC1301
- Q152
- Q154
- Q156
- Q157
- Q102
- Q571
- Q572
- IC301
- Q451
- Q452
- Q301
- Q302
- Q401
- Q403
- IC1201
- VR851
- VR852
- IC702

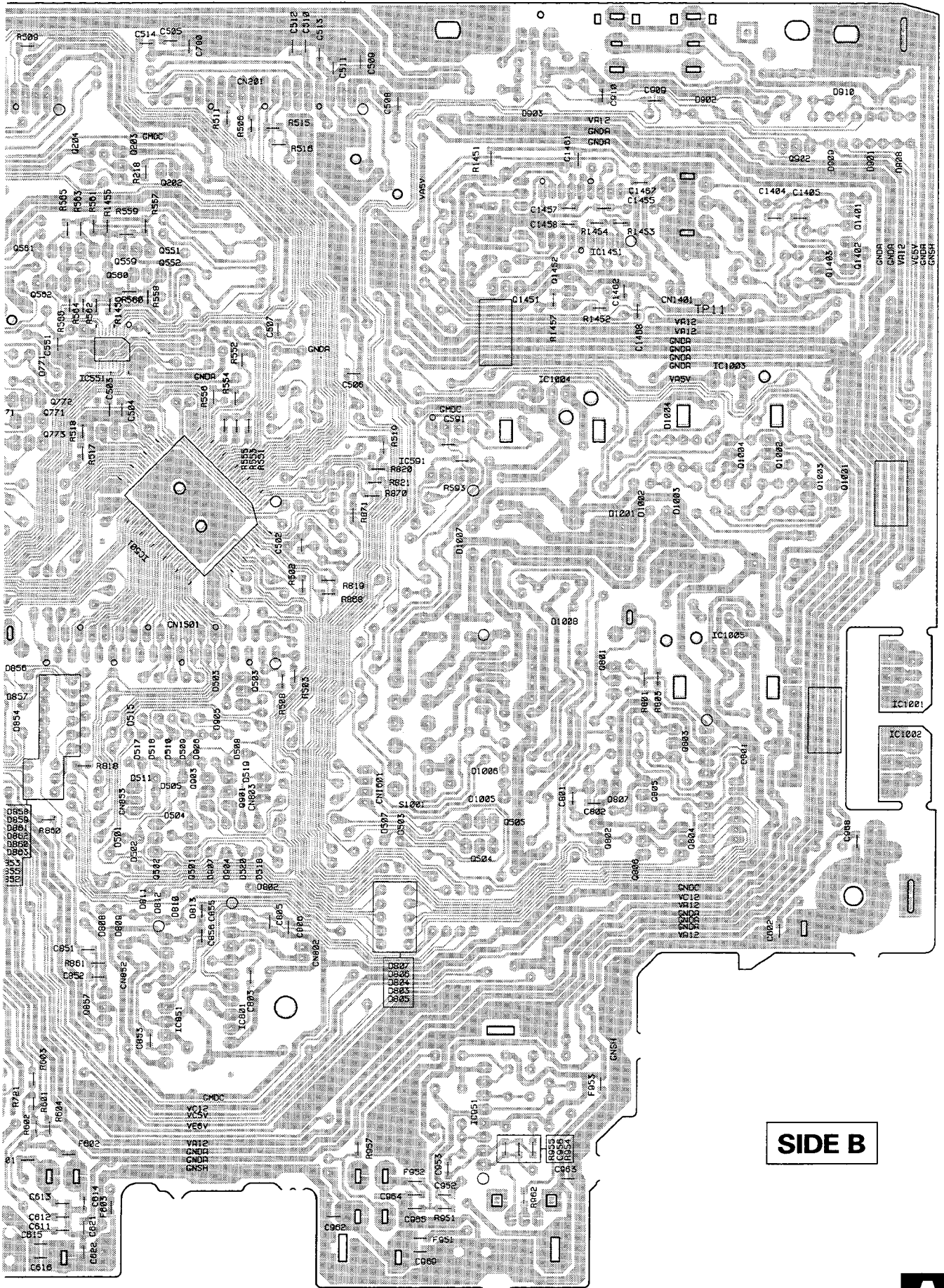
VR701



**A** MAIN UNIT



(RNP1693-A)



IC551

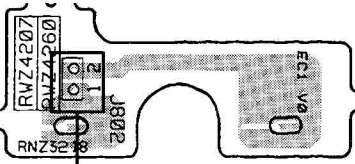
IC501

**SIDE B**

# CT-W806DR, CT-07D

## 4.2 MOTOR 1 UNIT, MOTOR 2 UNIT, POC 1 UNIT, POC 2 UNIT, TIMER UNIT, TRN 1 UNIT AND TRN 2 UNIT

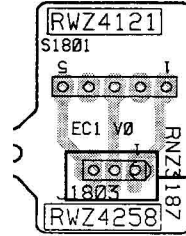
**B** MOTOR 1 UNIT



**A** CN802

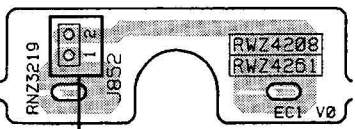
**D** POC 1 UNIT

**SIDE A**



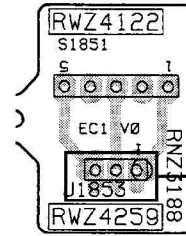
**A** CN803

**C** MOTOR 2 UNIT



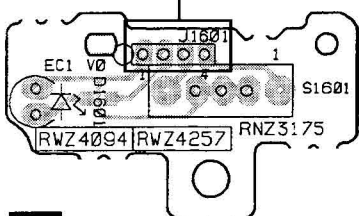
**A** CN852

**E** POC 2 UNIT



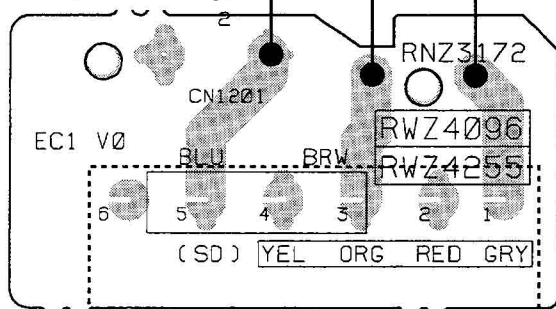
**A** CN853

**A** CN1601



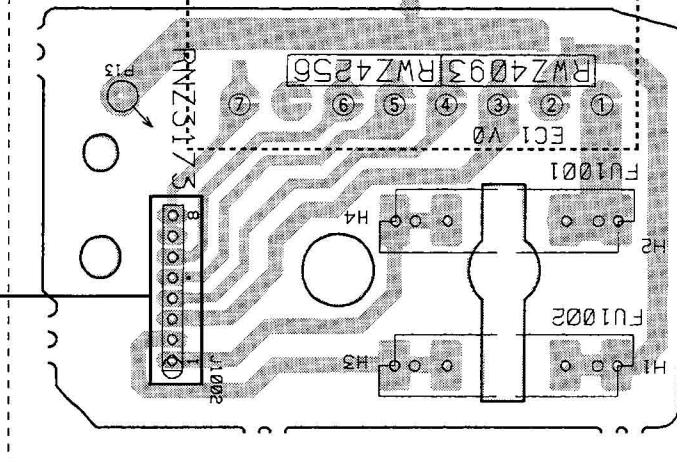
**F** TIMER UNIT

**H** TRN 1 UNIT (SDXJ only)



POWER TRANSFORMER

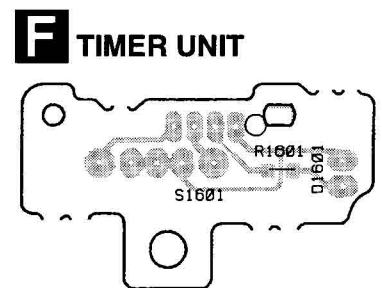
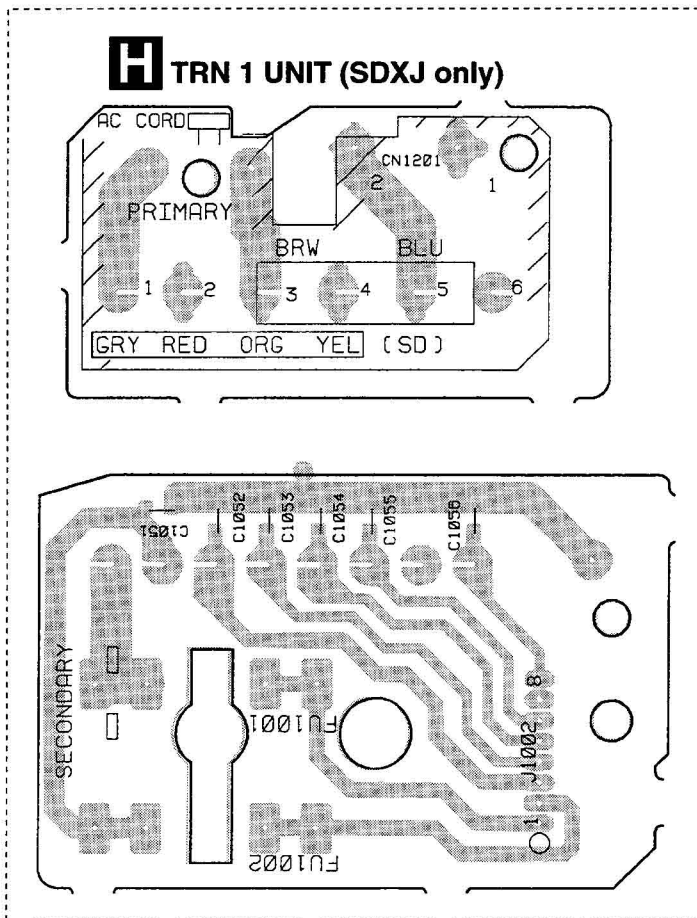
**A** J1001



(RNP1693-A)

**G** TRN 2 UNIT

**SIDE B**

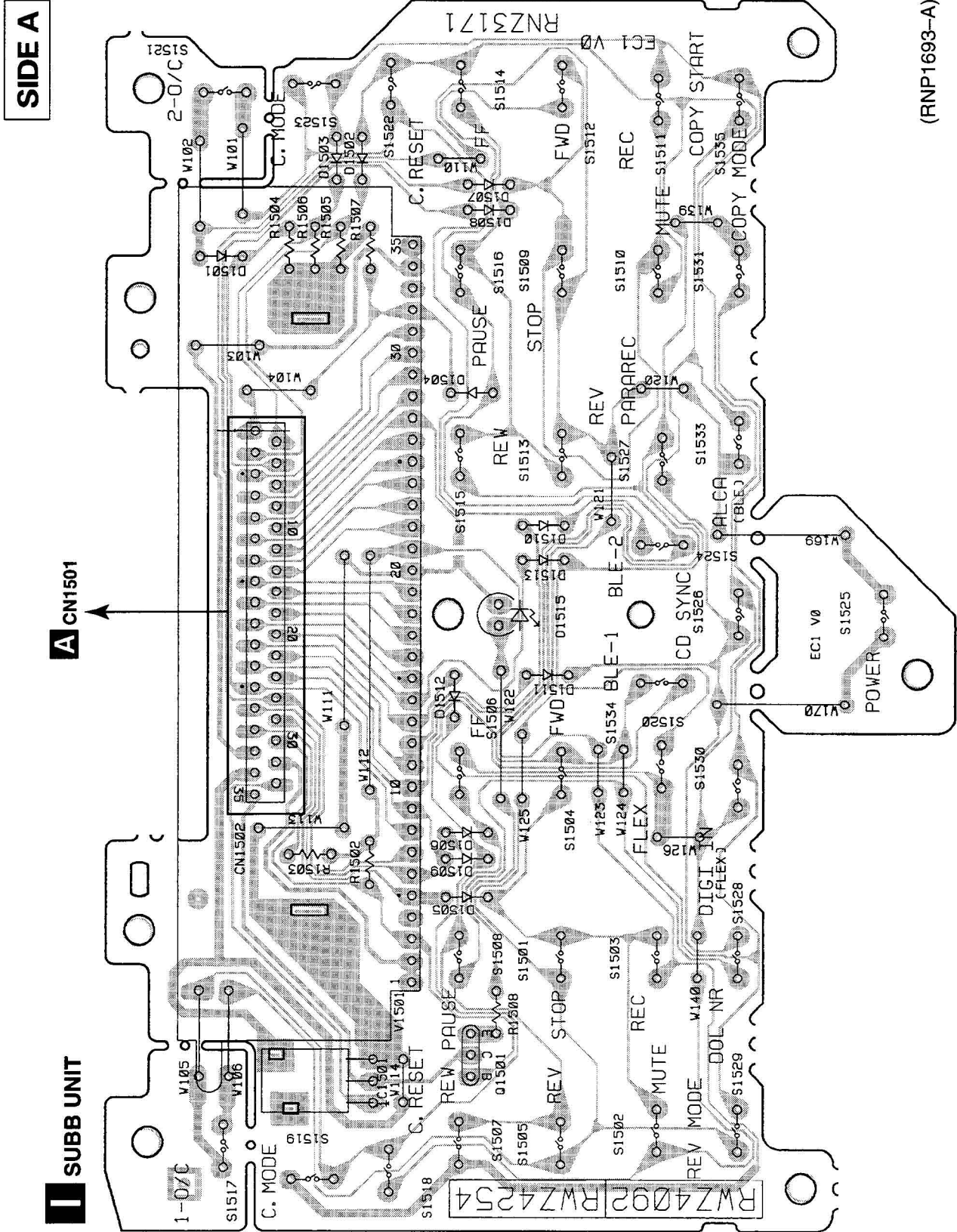


**G TRN 2 UNIT**

(RNP1693-A)

# CT-W806DR, CT-07D

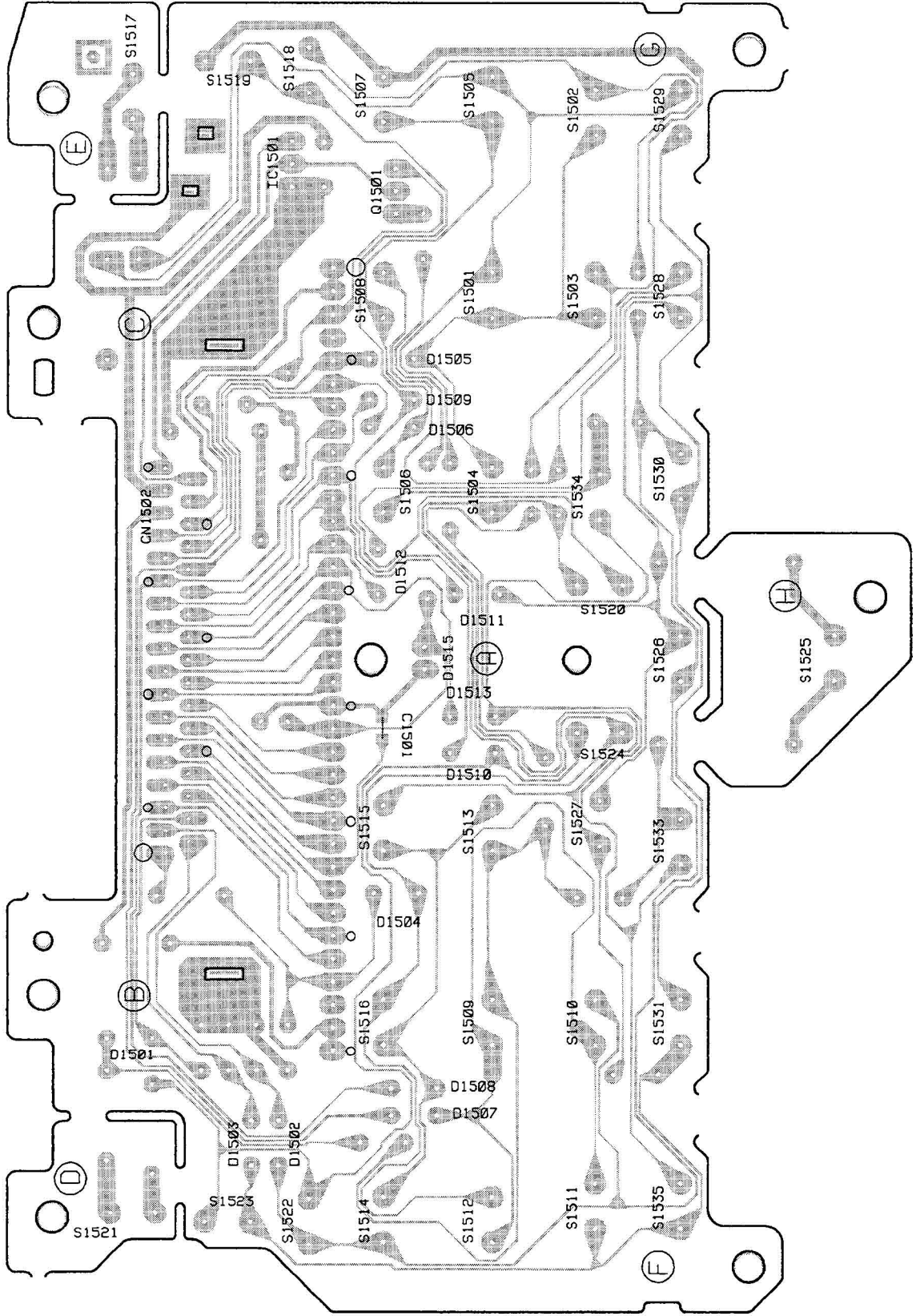
## 4.3 SUBB UNIT





**SIDE B**

**SUBB UNIT**



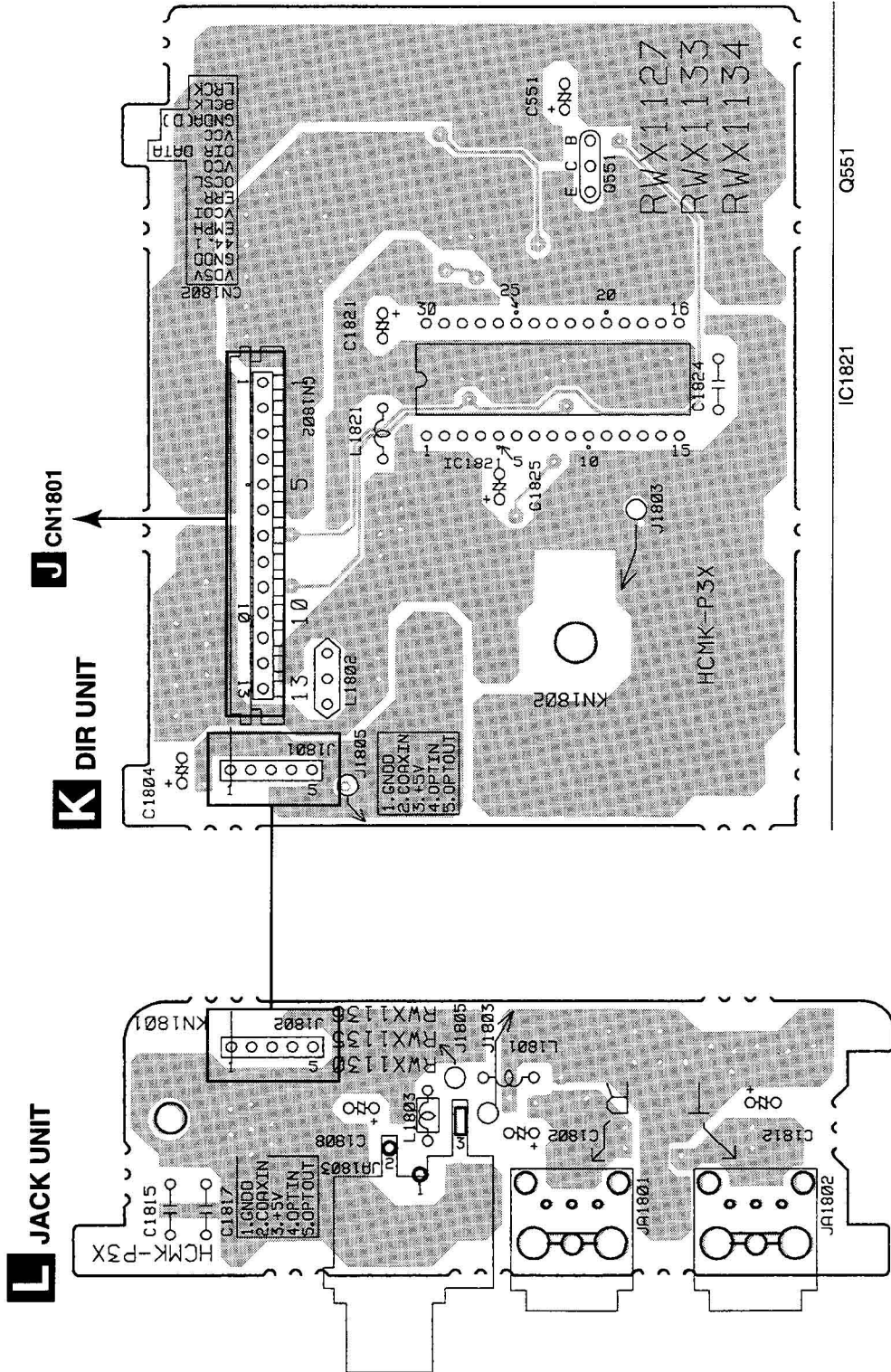




# CT-W806DR, CT-07D

## 4.5 DIR UNIT AND JACK UNIT

**SIDE A**

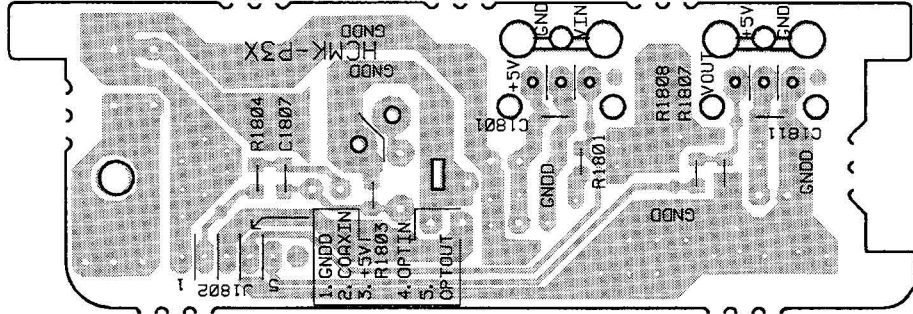


(RNP1696-D)

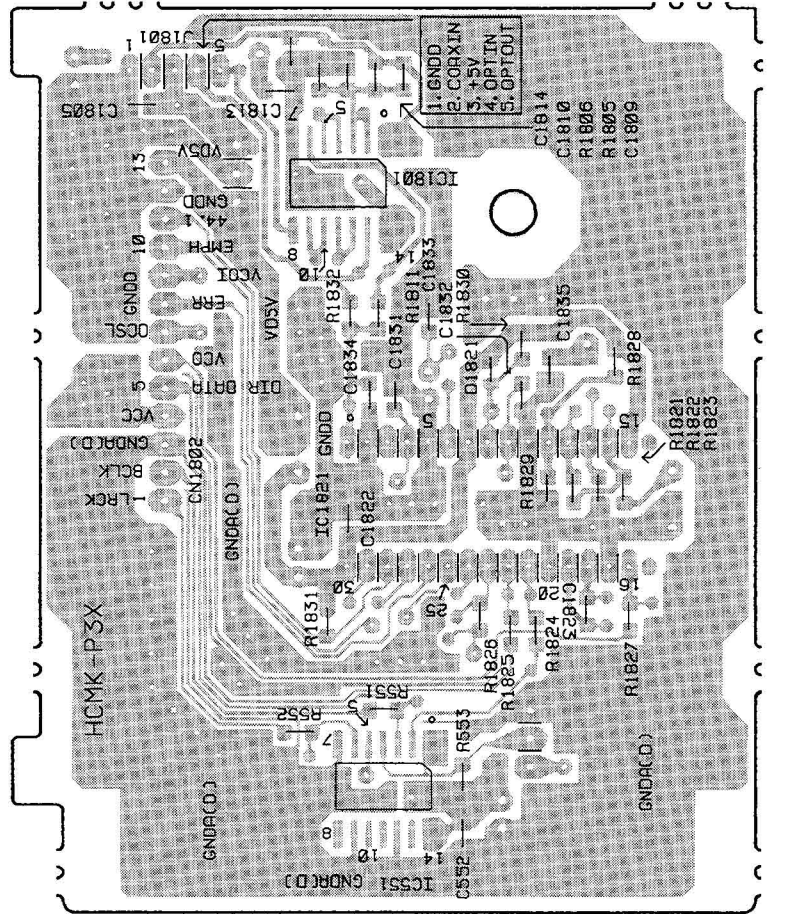


**SIDE B**

**L JACK UNIT**



**K DIR UNIT**



IC551

IC1801

# CT-W806DR, CT-07D

## 5. PCB PARTS LIST

NOTES : ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.

● The  $\Delta$  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.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560  $\Omega$   $\rightarrow$   $56 \times 10^1 = 561$  ..... RD1/4PU  $\begin{matrix} \boxed{5} & \boxed{6} & \boxed{1} \end{matrix}$  J

47k  $\Omega$   $\rightarrow$   $47 \times 10^3 = 473$  ..... RD1/4PU  $\begin{matrix} \boxed{4} & \boxed{7} & \boxed{3} \end{matrix}$  J

0.5  $\Omega$   $\rightarrow$  R50 ..... RN2H  $\begin{matrix} \boxed{R} & \boxed{5} & \boxed{0} \end{matrix}$  K

1  $\Omega$   $\rightarrow$  1R0 ..... RS1P  $\begin{matrix} \boxed{1} & \boxed{R} & \boxed{0} \end{matrix}$  K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k  $\Omega$   $\rightarrow$   $562 \times 10^1 = 5621$  ..... RNI/4PC  $\begin{matrix} \boxed{5} & \boxed{6} & \boxed{2} & \boxed{1} \end{matrix}$  F

## ■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	Part No.				Remarks
		CT-W806DR			CT-07D	
		HYXJ	HVXJ	SDXJ	KUXJ/CA	
NSP	MOTHER UNIT	RWM1987	RWM1997	RWM1988	RWM1995	
	└ MAIN UNIT	RWZ4091	RWZ4089	RWZ4095	RWZ4101	
	└ SUBB UNIT	RWZ4092	RWZ4092	RWZ4092	RWZ4102	
NSP	└ TRN 2 UNIT	RWZ4093	RWZ4093	RWZ4093	RWZ4099	
NSP	└ TIMER UNIT	RWZ4094	RWZ4094	RWZ4094	Not used	
NSP	└ POC 1 UNIT	RWZ4121	RWZ4121	RWZ4121	RWZ4121	
NSP	└ POC 2 UNIT	RWZ4122	RWZ4122	RWZ4122	RWZ4122	
NSP	└ MOTOR 1 UNIT	RWZ4207	RWZ4207	RWZ4207	RWZ4207	
NSP	└ MOTOR 2 UNIT	RWZ4208	RWZ4208	RWZ4208	RWZ4208	
NSP	└ TRN 1 UNIT	Not used	Not used	RWZ4096	Not used	
NSP	SUB UNIT	RWM2021	RWM2020	RWM2021	RWM2020	
	└ DIR UNIT	RWX1134	RWX1133	RWX1134	RWX1133	
	└ JACK UNIT	RWX1136	RWX1135	RWX1136	RWX1135	
	└ CORE UNIT	RWX1137	RWX1137	RWX1137	RWX1137	

## ■ CONTRAST OF PCB ASSEMBLIES

### SUBB Unit

RWZ4092 and RWZ4102 have the same construction except for the following:

Mark	Symbol and Description	Part No.		Remarks
		RWZ4092	RWZ4102	
	S1525	Not used	VSG1010	*

Note\*: Refer to **I**.

### TRN 2 Unit

Although RWZ4093 and RWZ4099 are different in part number, they consist of the same components.

**MAIN Unit**

RWZ4091, RWZ4089, RWZ4095 and RWZ4101 have the same construction except for the following:

Mark	Symbol and Description	Part No.				Remarks
		RWZ4091	RWZ4089	RWZ4095	RWZ4101	
	Q101, Q102, Q163, Q164 Q504, Q505 D501, D502 D508 S1001	DTC124TS KRA111M 1SS254 Not used RSA1002	DTC124TS KRA111M 1SS254 Not used RSA1002	KRC111M KRA111M 1SS254 Not used RSA1002	KRC111M Not used Not used 1SS254 Not used	*
	F101-F106, F203, F204 C109-C112, C455, C701, C702, C751, C752 C953, C1455 C124 C203, C204	DTF1069 CCSQCH101J50  CCSQCH271J50 CCCSL101J50	DTF1069 CCSQCH101J50  CCSQCH271J50 CCCSL101J50	Not used CCSQCH101J50  Not used Not used	Not used CCSQSL101J50  Not used Not used	
	C615, C622, C713, C969 C711 C753, C754 C802, C852 C857	Not used CKCYF473Z50 CCSQCH121J50 CCSQCH330J50 CCSQCH470J50	CKSQYF224Z25 Not used CCSQCH121J50 CCSQCH330J50 CCSQCH470J50	Not used CKCYF473Z50 CCSQCH121J50 Not used Not used	CKSQYF224Z25 Not used CCSQSL121J50 Not used Not used	*
	C956 C1001-C1004 R119 R131, R132, R231, R232 R133-R136	CCSQCH181J50 CKCYF473Z50 RS1/10S223J Not used Not used	CCSQCH181J50 CKCYF473Z50 RS1/10S223J Not used Not used	CCSQCH181J50 CKCYF473Z50 RS1/10S104J RS1/10S0R0J RS1/10S0R0J	CCSQSL181J50 Not used RS1/10S104J RS1/10S0R0J Not used	* *
	R504, R505 R812 R861 J601 CN1601	RD1/4PU223J RD1/4PU223J RS1/10S223J Not used 52147-0410	RD1/4PU223J RD1/4PU223J RS1/10S223J DB020ND0 52147-0410	RD1/4PU223J RD1/4PU513J RS1/10S513J Not used 52147-0410	Not used RD1/4PU513J RS1/10S513J DB020ND0 Not used	*

Note\*: Refer to **A**.

**DIR Unit**

RWX1134 and RWX1133 have the same construction except for the following:

Mark	Symbol and Description	Part No.		Remarks
		RWX1134	RWX1133	
	IC1801 C1809 C1810 C1813, C1835 C1814	Not used Not used Not used Not used Not used	TC74HCU04AF-TBB CCSQCH220J50 CCSQCH470J50 CKSQYB105K10 CKSQYB102K50	* * * * *
	R1805 R1806 R1811 R1832	Not used Not used Not used RS1/10S102J	RS1/10S473J RS1/10S222J RS1/10S201J Not used	* * *

Note\*: Refer to **K**.

# CT-W806DR, CT-07D

## JACK Unit

RWX1136 and RWX1135 have the same construction except for the following:

Mark	Symbol and Description	Part No.		Remarks
		RWX1136	RWX1135	
	L1801 (150 μH)	LFA151K	Not used	
	L1803 ( Noise filter )	Not used	RTF1167	*
	C1801	CKSQYF104Z25	Not used	
	C1802	CEJA470M10	Not used	
	C1807	Not used	CKSQYF103Z50	*
	C1808	Not used	CEJA330M25	*
	C1815	CGCYF104Z25	Not used	
	C1817	Not used	CGCYF104Z25	*
	R1801	RS1/10S222J	Not used	
	R1803	Not used	RS1/10S750J	*
	R1804	Not used	RS1/10S100J	*
	JA1801 OPTICAL LINK IN	GP1F32R	Not used	
	JA1803 COAX-IN	Not used	RKB1027	*

Note\*: Refer to **L**.

## **H** TRN 1 Unit (CT-W806DR/SDXJ ONLY)

TRN 1 Unit has no service part.

## ■ PCB PARTS LIST FOR CT-W806DR/HYXJ

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
<b>A</b>	<b>MAIN UNIT</b>						
	<b>SEMICONDUCTORS</b>						
	IC591		AK93C45		Q903		KRA111M
	IC1301, IC301, IC601, IC701, IC951		BA15218N		Q1002, Q1452, Q201-Q204, Q452		KRC103M
	IC202		BU4066BC		Q804, Q806, Q854, Q856, Q902		KRC103M
	IC101		CXA1115BP		Q103, Q104, Q153, Q154		KRC111M
	IC201		CXA1562S		Q156, Q157, Q166, Q209		KRC111M
	IC801, IC851		LB1641	⚠	Q559-Q562, Q573, Q574, Q802		KRC111M
	IC751		M5218AL	⚠	Q852		KRC111M
	IC551		M62352GP		D801, D851		11ES2
⚠	IC1001, IC1002, IC1005		NJM7812FA		D1005, D1007		1SR35-100AVL
⚠	IC1003, IC1004		NJM78M05FA		D1002, D1003		1SS254
	IC501		PD5390C		D1004, D1301-D1304, D151, D152		1SS254
	IC1201		TC4052BP		D161, D162, D301-D304		1SS254
	IC1451, IC451		UPC1297CA		D501, D502, D504-D506		1SS254
	Q1001, Q1451, Q451, Q801, Q851		2SA1309A		D509-D511, D515-D520		1SS254
	Q805, Q855		2SB1238X	⚠	D802-D813, D852-D863		1SS254
	Q803, Q853		2SB1425	⚠	D901-D910		1SS254
	Q1003, Q551, Q552, Q571, Q572		2SC1740S	⚠	D771		MTZJ3.9B
	Q807, Q857		2SC1740S	⚠	D1008		MTZJ5.6B
	Q1401, Q1402, Q401, Q402		2SC1815	⚠	D1006		MTZJ7.5B
	Q1301, Q1302, Q1403, Q301, Q302		2SD2144S	⚠	D1001		S2VB20
	Q403, Q751, Q752		2SD2144S				
	Q151, Q152, Q161, Q162		2SK373				
	Q101, Q102, Q163, Q164		DTC124TS				
	Q1004, Q155, Q165, Q207, Q208		KRA102M				
	Q501-Q505, Q771-Q773, Q901		KRA111M				
					<b>COILS AND FILTERS</b>		
					F951-F953		DTF1068
					F101-F106, F203, F204		DTF1069
					L603, L901, L902		LAU1R0J
					L903, L904		LAU4R7J
					L1402, L402		LFA121K



# CT-W806DR, CT-07D

Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
L1451, L1452, L451, L452 (4.6 μH)		RTD1046	C301, C302		CKSQYB221K50
L1401, L401		RTD1052	C1404, C1405, C404, C405		CKSQYB332K50
L101, L102		RTF1099	C125, C126		CKSQYB391K50
L1301, L1302, L301, L302		RTF1102	C103, C104		CKSQYB471K50
L105		RTF1167	C1457, C1458, C457, C458		CKSQYB473K50
F201, F202		RTF1217	C105, C106, C952		CKSQYB681K50
<b>SWITCHES AND RELAYS</b>			C1461, C1462, C461, C462		CKSQYB821K50
S1001		RSA1002	C120, C128, C502-C504		CKSQYF103Z50
<b>CAPACITORS</b>			C512, C513, C551, C591, C602		CKSQYF103Z50
C901, C902		CCCCH470J50	C771, C780, C909, C963		CKSQYF103Z50
C203, C204		CCCSL101J50	C508, C510, C511, C968		CKSQYF104Z25
C1453, C1454, C453, C454		CCCSL271K2H	C709		CKSQYF104Z50
C151, C152, C161, C162		CCSQCH100D50	C803, C853		CKSQYF473Z50
C109-C112, C1455, C455, C509		CCSQCH101J50	C213, C214		CQMA103J50
C701, C702, C712, C751, C752		CCSQCH101J50	C1402, C402		CQMA223J50
C953		CCSQCH101J50	C113, C114		CQMA822J50
C753, C754		CCSQCH121J50	C1401, C401		CQPA682J2A
C956		CCSQCH181J50	C1011 (1000/16V)		PCH1122
C1467, C1468, C467, C468		CCSQCH221J50	C1451, C1452, C451, C452 (430pF/500V)		RCG1005
C124		CCSQCH271J50	C1010 (4700/25V)		RCH1151
C802, C852		CCSQCH330J50	<b>RESISTORS</b>		
C857		CCSQCH470J50	R501		RA4T223J
C107, C108		CEANL101M10	R825, R869		RA6T103J
C1013, C1307-C1310, C1465		CEAS100M50	R1401, R401		RD1/2LMF1R0J
C211, C212, C307-C310, C465		CEAS100M50	R1405, R405		RD1/2LMF330J
C707, C708, C954, C957, C960		CEAS101M16	R1404, R404		RD1/2LMF5R6J
C603, C605, C606		CEAS102M6R3	R1305, R1306, R1406, R507		RD1/4PU102J
C1019, C1028		CEAS1R0M50	R761, R762, R824, R874, R904		RD1/4PU102J
C205, C206, C607, C608, C951		CEAS220M16	R959		RD1/4PU102J
C1014		CEAS220M50	R1010, R201, R202, R208, R210		RD1/4PU103J
C781, C782		CEAS221M35	R813-R817, R862-R867, R958		RD1/4PU103J
C1015		CEAS330M16	R1313, R1314, R1317, R1318, R771		RD1/4PU104J
C1406, C1407, C406, C407		CEAS330M16	R773, R775, R952, R953		RD1/4PU104J
C705, C706		CEAS330M16	R960, R961		RD1/4PU104J
C1007, C1012		CEAS331M16	R203, R204, R802		RD1/4PU112J
C1017, C119, C121, C1306, C1408		CEAS470M16	R1009, R1402, R1403		RD1/4PU123J
C219, C220, C305, C408, C501		CEAS470M16	R804		RD1/4PU124J
C552, C704, C759, C807		CEAS470M16	R113, R114		RD1/4PU152J
C958, C959, C961		CEAS470M16	R715		RD1/4PU153J
C1018		CEAS472M16	R571		RD1/4PU163J
C1303, C1304, C303, C304		CEAS4R7M50	R705, R707, R708		RD1/4PU184J
C573, C574		CEAS4R7M50	R809, R858		RD1/4PU203J
C1456, C456		CEASR22M50	R1003, R1408, R512, R513, R807		RD1/4PU222J
C115, C116, C217, C218		CEYA100M50	R856		RD1/4PU222J
C783, C784		CEYA100M50	R1007, R1008, R156, R504, R505		RD1/4PU223J
C201, C202, C757, C758		CEYA1R0M50	R772, R774, R778, R805, R806		RD1/4PU223J
C207, C208		CFTXA104J50	R811, R812, R854, R855, R903		RD1/4PU223J
C209, C210		CFTXA683J50	R717, R718		RD1/4PU242J
C1463, C1464, C463, C464		CGCYX103K25	R219, R220, R823, R873		RD1/4PU272J
C1459, C1460, C459, C460		CGCYX223K25	R901, R905		RD1/4PU274J
C1403, C403		CGCYX332K25	R1307, R1308		RD1/4PU303J
C905, C907, C908		CKCYF103Z50	R1002, R1006, R567, R568		RD1/4PU332J
C1001-C1006, C1008, C1020-C1023		CKCYF473Z50	R577, R578, R585, R586		RD1/4PU332J
C1025, C1029, C601, C609, C711		CKCYF473Z50	R115, R573, R574		RD1/4PU333J
C804, C854, C906, C955, C966		CKCYF473Z50	R1001		RD1/4PU362J
C710, C801, C805, C806, C851		CKSQYB102K50	R1407, R155		RD1/4PU473J
C855, C856		CKSQYB102K50	R1012		RD1/4PU562J
C117, C118		CKSQYB122K50	R776		RD1/4PU681J
C101, C102, C1301, C1302		CKSQYB221K50	R583, R584		RD1/4PU682J
			R575, R576, R808		RD1/4PU683J
			R810, R859		RD1/4PU751J



# CT-W806DR, CT-07D

Mark No.	Description	Parts No.
	R215, R216, R581, R582 R609-R612 R1303, R1304 R1301, R1302 R822, R872	RD1/4PU822J RD1/4PU823J RD1/4PU911J RD1/4PU912J RFA1/4PL100J
△	R1011 R1014 R607 VR851 (2.2 kΩ) VR801, VR852 (1.0 kΩ)	RFA1/4PL4R7J RS1LMF102J RS1LMF221J RCP1019 RCP1044
△	VR701 (5 kΩ-A) VR951 (10 kΩ-A) Other Resistors	RCV1115 RCV1116 RS1/10S□□□J
<b>OTHERS</b>		
	CN1501 35P FFC CONNECTOR CN802, CN852 2P JUMPER CONNECTOR CN803, CN853 3P JUMPER CONNECTOR CN1601 4P JUMPER CONNECTOR CN701 PIN JACK(4P)	52045-3545 52147-0210 52147-0310 52147-0410 AKB7015
	CN1401, CN401 CONNECTOR POST CN101, CN151 CONNECTOR POST CN202 14P PLUG CN201 15P PLUG JA901	B2B-PH-K-S B3B-PH-K-S KM200IB14 KM200IB15 PKN1005
	JA601 HEADPHONE JACK JA951 MIC JACK JA911, JA912 REMOTE CONTROL JACK X501 (8.389MHz) PCB BINDER	RKN1002 RKN1003 RKN1004 RSS1042 VEF1008
NSP NSP NSP	GROUND PLATE HEAT SINK PLATE A MIC SHIELD PLATE	VNF-091 PNC-457 RNE1592 RNE1905
<b>I SUBB UNIT</b>		
<b>SEMICONDUCTORS</b>		
	Q1501 D1501-D1513 D1515	KRC111M ISS254 MBG5074X
<b>SWITCHES AND RELAYS</b>		
	S1501-S1524, S1526-S1531 S1533-S1535	VSG1010 VSG1010
<b>CAPACITORS</b>		
	C1501	CKSQYB221K50
<b>RESISTORS</b>		
	All Resistors	RD1/4PU□□□J
<b>OTHERS</b>		
	CN1502 35P FFC CONNECTOR V1501 FL TUBE	52044-3545 RAW1157
<b>G TRN 2 UNIT</b>		
<b>OTHERS</b>		
	H1-H4 FUSE CLIP	AKR1004

Mark No.	Description	Parts No.
<b>F TIMER UNIT</b>		
	SWITCHES AND RELAYS S1601	RSH1041
<b>D POC 1 UNIT</b>		
	OTHERS REAF SWITCH	VSK1011
<b>E POC 2 UNIT</b>		
	OTHERS REAF SWITCH	VSK1011
<b>B MOTOR 1 UNIT</b>		
	MOTOR 1 UNIT has no service part.	
<b>C MOTOR 2 UNIT</b>		
	MOTOR 1 UNIT has no service part.	
<b>K DIR UNIT</b>		
<b>SEMICONDUCTORS</b>		
	IC1821 IC551 Q551 D1821	PD0052 TC74HC125AF DTC124ES 1SS355
<b>COILS AND FILTERS</b>		
	L1821 L1802	LFA1R0K RIF1171
<b>CAPACITORS</b>		
	C1834 C1823 C1821 C1825 C1804, C551  C1824 C1831, C1832 C552 C1822 C1805, C1833	CCSQCH100D50 CCSQCH220J50 CEJA220M25 CEJA2R2M50 CEJA470M10  CFTYA473J50 CKSQYB103K50 CKSQYF103Z50 CKSQYF104Z25 CKSQYF473Z50
<b>RESISTORS</b>		
	All Resistors	RS1/10S□□□J
<b>OTHERS</b>		
	CN1802 13P SOCKET KN1802 EARTH METAL FITTING	RKP1771 VNF1084

Mark No.	Description	Parts No.
<b>L</b>	<b>JACK UNIT</b>	
	COILS AND FILTERS	
	L1801	LFA151K
	CAPACITORS	
	C1802	CEJA470M10
	C1815	CGCYF104Z25
	C1801	CKSQYF104Z25
	RESISTORS	
	All Resistors	RS1/10S□□□J
	OTHERS	
	JA1801 OPTICAL LINK IN	GP1F32R
	KN1801 EARTH METAL FITTING	VNF1084

Mark No.	Description	Parts No.
OTHERS		
CN202	14P SOCKET	KP200IB14L
CN201	15P SOCKET	KP200IB15L
CN1801	13P PLUG	RKP1770
X531	(18.432 MHz)	RSS1052

Mark No.	Description	Parts No.
<b>J</b>	<b>CORE UNIT</b>	
	SEMICONDUCTORS	
	IC1302	AK4310-VM
	IC1251	AK5330-VM
	IC511	AK7712-VQ
	IC1501	LH5P8128N-10
	IC202	NJM2100M
	IC562	TC74HC00AF
	IC571	TC74HC157AF
	IC561	TC7W74F
	IC531	TC7WU04F
	Q1251, Q561	DTC114ES
	Q511, Q531	DTC124ES
	D531-D533	1SS355
	COILS AND FILTERS	
	 F517	DTF1067
	 F533, F564	DTF1068
	L1251, L1302, L1501, L511, L512	LFA1R0K
	L531	LFA1R0K
	CAPACITORS	
	C531, C532	CCSQCH180J50
	C1257, C1258, C1261, C1263, C1265	CEJA100M16
	C1312, C1314, C1317, C1501, C514	CEJA100M16
	C516, C519, C521	CEJA100M16
	C201, C202	CEJA1R0M50
	C1251, C1252	CEJA2R2M50
	C203, C225, C226, C533, C561	CEJA470M10
	C563, C571	CEJA470M10
	C227, C228	CEJA4R7M25
	C530	CKSQYB103K50
	C1253-C1256	CKSQYB222K50
	C205, C206	CKSQYB332K50
	C534, C562, C564, C572	CKSQYF103Z50
	C1259, C1260, C1262, C1264, C1266	CKSQYF104Z25
	C1311, C1313, C1315, C1316, C1502	CKSQYF104Z25
	C511, C513, C515, C517	CKSQYF104Z25
	C522-C525, C527, C528, C535	CKSQYF104Z25
	C529	CKSQYF473Z50
	RESISTORS	
	All Resistors	RS1/10S□□□J

# CT-W806DR, CT-07D

## 6. ADJUSTMENT

● Adjustment points and Measurement points are shown in Fig. 6-4.

### 6.1 MECHANICAL ADJUSTMENT

#### 6.1.1 Tape Speed Adjustment

● Perform this adjustment in the test mode.

● Test Mode Setting

- (1). Press the TIME/COUNT and RESET keys of DECK I together with the PAUSE key of DECK II.
- (2). The speed becomes normal when the PLAY key is pressed, and double when the FF key is pressed.
- (3). To cancel the TEST mode, press the RESET key of DECK I or turn off the power.

No.	DECK	Mode	Test Tape	Adjusting Point	Specifications/Ratings (Playback Frequency)	Remarks
1	I	Double Speed PLAY	STD-301 (3 kHz) or NCT-111	Check	5100 Hz $\pm$ 510 Hz	
2	II			VR851	Within $\pm$ 10 Hz against the measurement value of the step 1 (DECK I).	
3	I	Normal Speed PLAY		VR801	2980 Hz $\pm$ 5 Hz	
4	II			VR852	Within $\pm$ 5 Hz against the measurement value of the step 3 (DECK I).	

### 6.2 ELECTRICAL ADJUSTMENT

#### Adjustment Conditions

- (1). The mechanical adjustments must be completed first.
- (2). The head must be cleaned and demagnetized.
- (3). Turn the power on allow the deck to warm up for at least a few minutes before commencing any electrical adjustments.
- (4). The reference signal is 0 dBV = 1 Vrms.
- (5). Connect a10 k $\Omega$  load resistance to the OUTPUT terminals.
- (6). Unless otherwise specified, the switches listed below are left in the positions indicated.

DOLBY NR : OFF  
TAPE SELECTOR : NORM

#### List of Adjustments

##### ■ Playback Section

- (1). Head Azimuth Adjustment
- (2). Playback Level Automatic Adjustment

##### ■ Recording Section

- (1). Bias Oscillator Adjustment
- (2). Recording Bias and Recording Level Automatic Adjustment

NOTE: This unit has an automatic tape selection feature.

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#### Test Tape

STD-331E : Playback adjustment (See Fig. 6-1)

STD-632 : NORMAL blank tape

STD-622 : CrO2 blank tape

STD-611 : METAL blank tape

\* As the reference recording level is 250 nwb/m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160nwb/m). When adjusting, pay careful attention to the type of tape used.

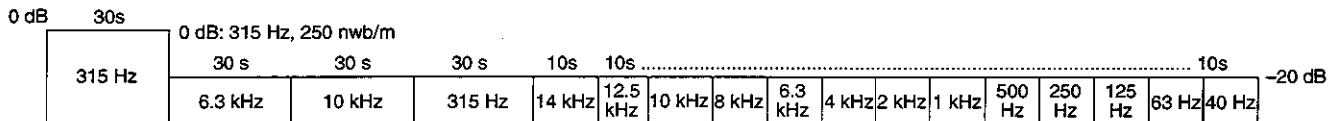


Fig. 6-1 Constants of the Test Tape STD-331E

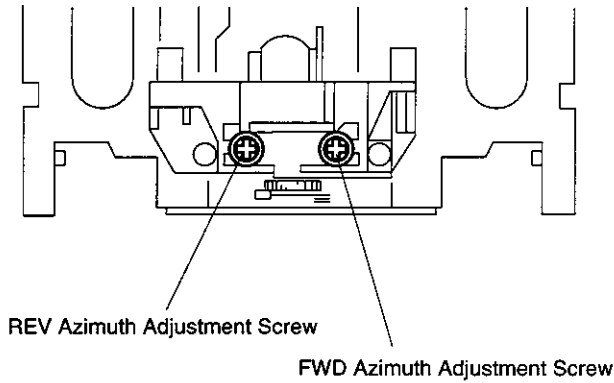
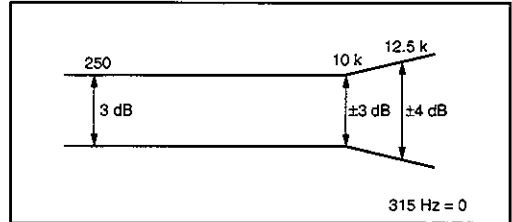


Fig. 6-2 Head Azimuth Adjustment

PLAY BACK



RECORDING

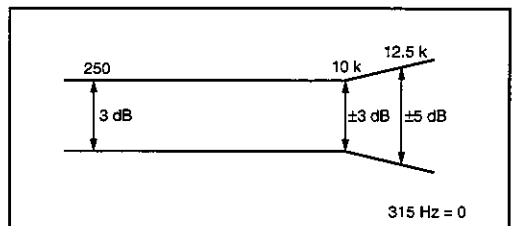


Fig. 6-3 Frequency Response Zone

6.2.1 Playback Section

(1). Head Azimuth Adjustment

No.	Mode	Input Signal and Test Tape	Adjustment Location	Measurement Location	Adjustment Value	Remarks
1	PLAY	Play the 10 kHz/-20 dB section of STD-331E test tape.	Head azimuth adjustment screw (See Fig. 6-2)	LINE OUT	Maximum playback signal level	
2	STOP	Lock the screw with silicon bond after completing adjustment.				

(2). Playback Level Automatic Adjustment

- ① Press the test mode, set both TIME/COUNT and RESET keys of DECK I together with the PAUSE key of DECK II all together.
- ↓
- ② When the BLE key (DECK II) is pressed, enter the Automatic adjustment mode.
- ↓
- ③ Set the test tape STD-331E, 315Hz/0dB.
- ↓
- ④ When the PLAY key (DECK I) is pressed, " P " flashes on the DECK I side counter, and adjustment of playback level is started automatically.
  - When correct adjustment has been completed, the mechanism stops for about 5 seconds, and " P " lights on the DECK I side counter.
  - At this time, flashing of " P " or " ERR " indicate adjustment error.
- ↓
- ⑤ When the PLAY key (DECK II) is pressed, adjustment of playback level is started automatically same as ④.

# CT-W806DR, CT-07D

## 6.2.2 Recording Section

### (1). Bias Oscillator Adjustment

No.	Mode	Input Signal and Test Tape	Adjustment Location		Measurement Location	Adjustment Value	Remarks
1	REC	Load the STD-611 test tape with no input signal.	DECK I	L1401	TP 11	107 kHz $\pm$ 0.3 kHz	If the adjustment value on the left cannot be obtained values within 107kHz $\pm$ 0.3 kHz are also satisfactory.
			DECK II	L401	TP 21		

### (2). Recording Bias and Recording Level Automatic Adjustment

- ① Press the test mode, set both TIME/COUNT and RESET keys of DECK I together with the PAUSE key of DECK II all together.
- ↓
- ② When the BLE key (DECK II) is pressed, enter the Automatic adjustment mode.
- ↓
- ③ Set the test tape STD-632.
- ↓
- ④ When the REC key (DECK I) is pressed, " B " flashes on the counter, and adjustment of bias and recording level is started automatically.
  - When correct adjustment has been completed, the mechanism stops for about 50 seconds, and " PBR " lights on the DECK I side counter to indicate that all adjustments have been completed.
  - At this time, flashing of " B " indicates a bias adjustment error, while flashing of " R " indicates a recording level error.
- ↓
- ④ When the REC key (DECK II) is pressed, adjustment of bias and recording level is started automatically same as ④.
- ↓
- ⑤ With correct adjustment, " PBR " lights on the counter (DECK I and DECK II). When the both sides of the counter does not light, no adjustment value is written into the memory.
- ↓
- ⑦ When the STOP key is pressed, the automatic adjustment mode is cancelled. At this time, the counter display becomes " 10 " on the DECK I side and " TUNE " on the DECK II side.



FL Display Example

#### Adjustment NG: The following are possible reasons.

- No recording
- No adjustment tape. Near the tape end.
- Tape is extremely damaged.
- Circuit trouble (defective contact etc.)

Note: For repeat adjustment, press the STOP key (DECK I or DECK II) to leave automatic adjustment mode, and then start again.

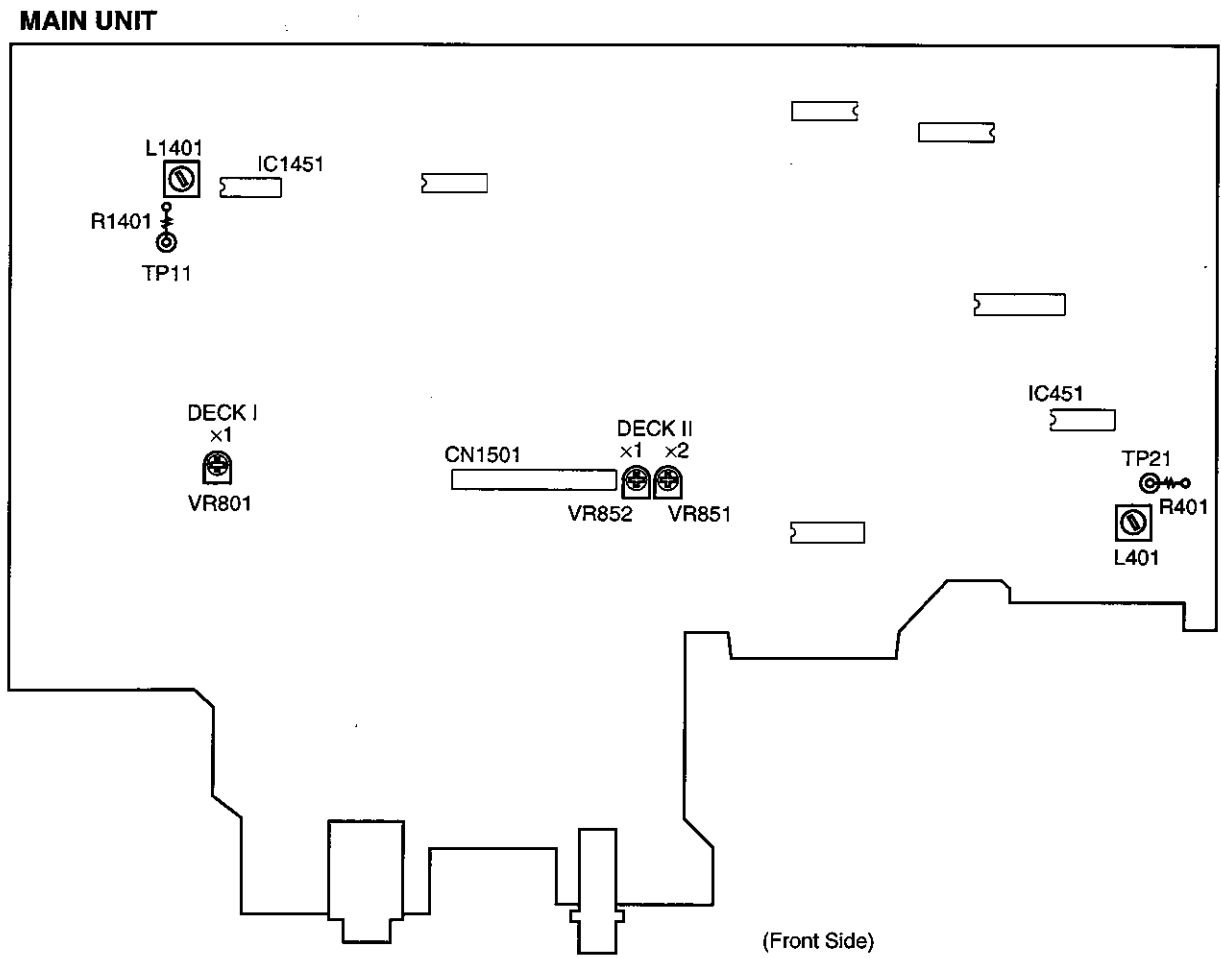


Fig. 6-4 Adjustment Points and Measurement Points

## 7. GENERAL INFORMATION

### 7.1 PARTS

#### 7.1.1 IC

#### ■ AK7712-VQ (IC511: CORE UNIT)

##### ● DSP

##### ● Pin Function

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

No.	Name	I/O	Description
1	NC	—	
2			
3	TSTI1	I	Test input pin 1
4	OPCL	I	ADC, DAC connection selection pin. "L": Connection "H": Disconnection
5	$\overline{\text{PDAD}}$	I	AD reset control pin
6	$\overline{\text{PDDA}}$	I	DA reset control pin
7	$\overline{\text{PD}}$	I	Power-down pin
8	$\overline{\text{RST}}$	I	Reset input pin ("L": Reset)
9	TSTIO1	I/O	Test I/O pin 1
10	TSTIO2	I/O	Test I/O pin 2
11	TSTIO3	I/O	Test I/O pin 3
12	DVB	—	Digital circuit board power supply pin
13	SDIN2	I	Serial data input pin 2. (OPCL: "H") Correspondence to left-justified 16, 20 bits
14	SDAD	O	Serial data output pin 2. (OPCL: "H") Correspondence to left-justified 16, 20 bits. Common setting with SDIN2.
15	SDOUT2	O	Serial data output pin 3. (OPCL: "H") Correspondence to left-justified 16, 20 bits
16	SDDA	I	Serial data input pin 3. (OPCL: "H") Correspondence to left-justified 16, 20 bits. Common setting with SDOUT2.
17	SDDA2	I	Serial data input pin 4. (OPCL: "H") Correspondence to left-justified 20 bits (BCLK: 16 bits at the time of 32 fs)
18	SDOUT3	O	Serial data output pin 4. (OPCL: "H") Correspondence to left-justified 20 bits (BCLK: 16 bits at the time of 32 fs)
19	SDOUT1	O	Serial data output pin 1. Correspondence to left-justified 16, 24 bits/ right-justified 16 bits
20	SDIN1	I	Serial data input pin 1. Correspondence to left-justified 16, 24 bits/ right-justified 16 bits

No.	Name	I/O	Description
21	SMODE	I	Interface clock selection pin. I/O setting for each clock pin of LRCK and BCLK "L": Slave mode (22, 23 input) "H": Master mode (output)
22	BCLK	I/O	Clock I/O pin for serial data input
23	LRCK	I/O	L/R channel identification signal I/O pin
24	CLKO	O	Master clock output pin
25	DVDD	—	Digital power supply pin
26	DVSS	—	Digital ground pin
27	NC	—	
28	XTI	I	Crystal oscillator input pin
29	XTO	O	Crystal oscillator output pin
30	TSTI2	I	Test input pin 2
31	$\overline{\text{CS}}$	I	Chip select input pin for microcomputer interface
32	$\overline{\text{WRQ}}$	I	Command resistor reset input pin for microcomputer interface
33	DVSS	—	Digital ground pin
34	DVDD	—	Digital power supply pin
35	SCLK	I	Clock input pin for serial data input for microcomputer interface
36	SI	I	Serial data input pin for microcomputer interface
37	WRDY	O	Data write ready output pin for microcomputer interface. Hi-2 status with CS = "H".
38	DRDY	O	Output data ready output pin for microcomputer interface
39	SO	O	Serial data output pin for microcomputer interface. Hi-2 status with CS = "H".
40	$\overline{\text{CASRF}}$	O	External DRAM CAS/dummy SRAM refresh pin
41	$\overline{\text{RASCE}}$	O	External DRAM RAS/dummy SRAM-CE pin



No.	Name	I/O	Description
42	$\overline{WE}$	O	External SRAM/dummy SRAM/DRAM write signal output pin
43   50	A16   A9		External RAM address pin (A16 becomes theMSB.)
51	DVSS	—	Digital ground pin
52	DVDD	—	Digital power supply pin
53   61	A8   A0	O	External RAM address pin (A0 becomes the LSB.)
62	$\overline{OC}$	O	External SRAM/dummy SRAM/DRAM output enable signal output pin
63   70	IO0   IO7	I/O	Data I/O pin for external RAM
71	DVSS	—	Digital ground pin
72	DVDD	—	Digital power supply pin
73	DZFSSET	I	Zero point detection set pin. "H": DZF output "L": DZF output → "L"
74	DVSS	—	Digital ground pin
75	DVDD	—	Digital power supply pin
76 77	DVB	—	Digital circuit board power supply pin
78	NC	—	
79	DZF2	O	Zero input detection pin (for DAC 2)
80	DZF1	O	Zero input detection pin (for DAC 1)
81	AVB	—	Analog circuit board power supply pin
82	AOUTR2	O	DAC2 R ch analog output pin 2
83	AOUTL2	O	DAC2 L ch analog output pin 2
84	AOUTR1	O	DAC1 R ch analog output pin 1
85	AOUTL1	O	DAC1 L ch analog output pin 1
86	VRDAL	I	DAC section reference voltage input pin. Normally connected to analog ground.
87	AVSS	—	Analog ground pin
88	AVDD	—	Analog power supply pin

No.	Name	I/O	Description
89	VRDAH	I	DAC section reference voltage input pin. Normally connected to AVDD2, capacitors of 0.1 μF and 10 μF are connected between this and VRDAL.
90	NC	—	
91	AINR-	I	ADC R ch analog reversion input pin
92	AINR+	I/O	ADC R ch analog nonreversion input pin
93	AINL-	I	ADC L ch analog reversion input pin
94	AINL+	I	ADC L ch analog nonreversion input pin
95	VCOM	O	Common voltage pin. Connected by capacitors of 0.1 μF and 10 μF to analog ground.
96	VRADL	I	ADC section reference voltage input. Normally connected to analog ground.
97	AVSS	—	Analog ground pin
98	AVDD	—	Analog power supply pin
99	VRADH	I	ADC section reference voltage input pin. Normally connected to AVDD1, capacitors of 0.1 μF and 10 μF are connected between this and VRADL.
100	AVB	—	Analog circuit board power supply pin

# CT-W806DR, CT-07D

## ■ PD5390C (IC501: MAIN UNIT)

### ● System Control Micro-computer

### ● Pin Function

No.	Name	I/O	Description
1	CLKD	O	Expander DAC IC CLK terminal
2	OUTD	O	Expander DAC IC DATA terminal
3	2CLOSE	O	2 SIDE Power EJECT CLOSE terminal
4	2OPEN	O	2 SIDE Power EJECT OPEN terminal
5	1CLOSE	O	1 SIDE Power EJECT CLOSE terminal
6	1OPEN	O	1 SIDE Power EJECT OPEN terminal
7	2x1	O	2 SIDE NORMAL/HI-SPEED CONTROL
8	SCLK	O	DSP CLK terminal
9	SO	O	DSP DATA output terminal
10	SI	I	DSP DATA input terminal
11	CMOD	O	DSP Master clock selection terminal
12	CS	O	DSP Chip select terminal
13	RQ	O	DSP Request terminal
14	PD	O	DSP Power-down terminal
15	RST	O	DSP Reset terminal
16	NC	—	Open
17	NC	—	
18	1BIAS	O	1SIDE BIAS ON when "H"
19	DOLO	O	Dolby NR OFF when "H"
20	DOLB	O	Dolby B when "H"
21	XL12	I/O	XD BIAS CONTROL terminal (1SIDE Lch)
22	XL11		
23	XL10		
24	XR12	I/O	XD BIAS CONTROL terminal (1SIDE Rch)
25	XR11		
26	XR10		
27	XL22	I/O	XD BIAS CONTROL terminal (2SIDE Lch)
28	XL21		
29	XL20		
30	XR22	I/O	XD BIAS CONTROL terminal (2SIDE Rch)
31	XR21		
32	XR20		
33	REMT	I	Remote control signal input terminal

No.	Name	I/O	Description
34	POFF	I	Power off
35	REST	I	Reset
36	XCIN	I	
37	XCOU	—	Open
38	XIN	I	Main Clock (8.4 MHz)
39	XOUT	O	
40	Vss	I	GND
41	1RMT	O	1SIDE REC MUTE
42	2RMT	O	2SIDE REC MUTE
43	DEC	O	Switching DECODE/ENCODE DECODE: "H"
44	PBNR	O	"H" when Normal tape playback
45	KEY3	I	KEY 3 input
46	KEY2	I	KEY 2 input
47	KEY1	I	KEY 1 input
48	KEY0	I	KEY 0 input
49	ASE1	O	Switching Analog SW
50	ASE0	O	
51	2BIAS	O	2 SIDE BIAS ON when "H"
52	LMUT	O	LINE MUTE
53	2PB	O	2 SIDE PLAY when "H"
54	1x1	O	1 SIDE NORMAL/HI-SPEED CONTROL
55	2METL	I/O	2 SIDE BIAS Voltage control Metal: "H"
56	2METR	I/O	
57   66	G10   G1	O	FL Grid/Scan output terminal
67   80	P14   P1	O	FL Segment/Scan output terminal
81	2NOR	O	2 SIDE BIAS Voltage control Normal: "H"
82	LDS	O	DIGITAL LED control output terminal
83	LSTB	O	STANDBY LED control output terminal
84	TOCD	O	CD SYNCHRO output terminal
85	2CPM	O	2 SIDE Capstan Motor output terminal
86	2SOL	O	2 SIDE Solenoid control output terminal

No.	Name	I/O	Description
87	1CPM	O	1 SIDE Capstan Motor output terminal
88	1SOL	O	1 SIDE Solenoid control output terminal
89	VEE	—	Power supply terminal for built-in pull-down resistor.
90	2SEN	I	2SIDE Sensing input terminal
91	Vcc	I	+5V Power supply
92	1SEN	I	1 SIDE Sensing input terminal
93	AVss	—	GND Power supply terminal for built-in A/D converter
94	Vcc	—	
95	SW2	I	Input terminal for Version detection

No.	Name	I/O	Description
96	SW1	I	Input terminal for Mecha SW detection
97	SW0	I	
98	CSM	O	Memory IC Chip select output terminal
99	DIM	I	Memory IC Serial data input terminal
100	DATD	O	Memory IC Serial data output terminal Expander DAC IC Data output terminal

■ AK4310-VM (IC1302: CORE UNIT)

- D/A Converter
- Pin Function

No.	Name	I/O	Description
1	TST1	I	Test pin (pull-down pin) Open or connected to "L".
2	DVDD	—	Digital power supply pin
3	DVss	—	Digital ground pin
4	PD	I	Power-down pin. When this pin is made "L", the filter and the modulator are reset and power-down status is reached.
5	RST	I	Reset pin
6	MCLK	I	Master clock pin. Input of the external CMOS clock.
7	CKS	I	Clock selection pin. The frequency of the clock entered to the CLK pin is selected. "H": CLK = 384 fs
8	BICK	I	Serial bit clock pin. Clock for latching of serial data.
9	SDATA	I	Serial data input pin. 16 bit serial data are entered from the MSB as 2's complement.
10	LRCK	I	L/R clock pin. The channel of the entered serial data is decided.
11   14	NC	—	

No.	Name	I/O	Description
15	AOUTR	O	R ch analog output pin
16	AOUTL	O	L ch analog output pin
17	VCOM	O	Common voltage pin, AVDD/2. Connected to AVSS via a 10 μF electrolytic capacitor and a 0.1 μF ceramic capacitor.
18	AVDD	—	Analog power supply pin
19	AVss	—	Analog ground pin
20 21	NC	—	
22	VREFH	I	"H" reference voltage input pin. The difference between the input voltages to VREFH and VREFL decides the full scale of the D/A output. Normally, VREFH is connected to AVDD and VREFL is connected to AVSS, And both pins are connected by a 0.1 μF ceramic capacitor close by.
23	VREFL	I	"L" reference voltage input pin
24	DZF	O	Zero input detection pin. The data entered to the SDATA pin are repeated 8192 times for both channels, and the signal becomes "H" at the time of zero.

# CT-W806DR, CT-07D

## ■ AK5330-VM (IC1251: CORE UNIT)

### ● A/D Converter

### ● Pin Function

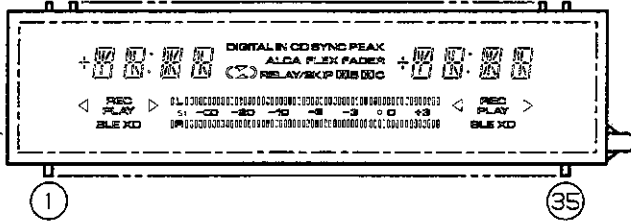
No.	Name	I/O	Description
1	AINR	I	R ch analog input pin
2	ZEROR	I	R ch zero input pin
3	AINL	I	L ch analog input pin
4	ZEROL	I	L ch zero input pin
5	VREFR	O	R ch reference voltage output pin, 2.5 V. Connected to AGND via an electrolytic capacitor of 10 $\mu$ F or less and a ceramic capacitor of 0.1 $\mu$ F.
6	VREFL	O	L ch reference voltage output pin, 2.5 V. Connected to AGND via an electrolytic capacitor of 10 $\mu$ F or less and a ceramic capacitor of 0.1 $\mu$ F.
7	VCOM	O	Common voltage output pin, 2.5 V. Connected to AGND via an electrolytic capacitor of 10 $\mu$ F or less and a ceramic capacitor of 0.1 $\mu$ F.
8	AGND	—	Analog ground pin
9	VA	—	Analog power supply pin, +5 V
10	VB	—	Silicon circuit board power supply pin, +5 V
11	TST2	I/O	Test pin (pull-down pin). Please open.
12	TST3	I/O	
13	VD	—	Digital section power supply pin, +5 V
14	DGND	—	Digital section ground pin

No.	Name	I/O	Description
15	TST1	I	Test pin (pull-down pin). Open or connect to DGND.
16	CMODE	I	Master clock selection pin. "H": MCLK = 384 fs
17	PD	I	Power-down pin. Power-down mode is reached at the time of "H". Offset calibration starts from " $\downarrow$ ".
18	MCLK	I	Master clock input pin
19	SCLK	I	Serial data clock pin. A/D data 1 bit output by " $\downarrow$ " of SCLK, and normally a clock of 32 fs to 64 fs is entered continuously.
20	L/R	I	L/R channel clock pin. The fs clock is entered.
21	SDT0	O	Serial data output pin. The data are put out MSB first as 2's complement. "L" at the time of power down (PD = "H").
22	DIF0	I	Serial interface format pin. Corresponding to mode 8.
23	DIF1		
24	DIF2		

7.1.2 DISPLAY

■ RAW1157 (V1501: SUBB UNIT)

- FL Tube
- Pin Assignment

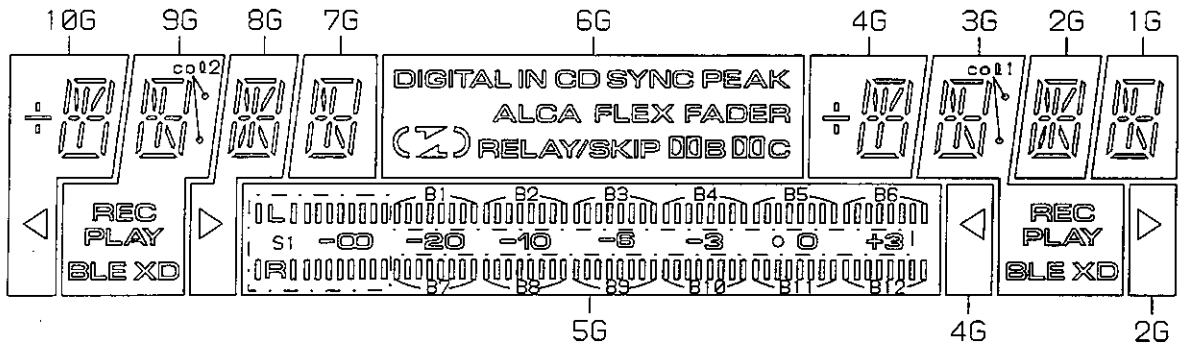


NOTE 1) F1, F2 -- Filament  
 2) NP ---- No pin  
 3) NC ---- No connection  
 4) DL ---- Datum Line  
 5) 1G~10G-- Grid

● Pin Connection

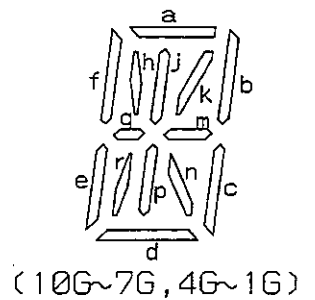
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	11	11	11	11	11	11	11	12	22	22	22	22	22	22	22	33	33	33	33	33				
CONNECTION	F	F	N	N	P	P	P	P	P	P	N	P	P	P	P	P	P	P	N	N	1	2	3	4	5	6	7	8	9	0	1	N	N	F	F
	1	1	P	C	1	2	3	4	5	6	7	C	8	9	0	1	2	3	4	C	C	G	G	G	G	G	G	G	G	C	P	2	2		

● Grid Assignment



● Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	a	a	a	a	DIGITAL	B1	a	a	a	a
P2	b	b	b	b	IN	B2	b	b	b	b
P3	f	f	f	f	CD	B3	f	f	f	f
P4	g	g, m	g	g	SYNC	B4	g	g, m	g	g
P5	c	c	c	c	PEAK	B5	c	c	c	c
P6	e	e	e	e	FADER	B6	e	e	e	e
P7	d	d	d	d	FLEX	S1	d	d	d	d
P8	j, p	j, p	j, p	j, p	ALCA	-	j, p	j, p	j, p	j, p
P9	m	co12	m	m	DOB	B7	m	co11	m	m
P10	h	h, n	h	h	DOC	B8	h	h, n	h	h
P11	k	REC	k	-	(	B9	k	REC	k	-
P12	l	PLAY	n	n	)	B10	l	PLAY	n	n
P13	o	BLE	r	-	)	B11	o	BLE	r	-
P14	<	XD	>	-	RELAY/SKIP	B12	<	XD	>	-



# CT-W806DR, CT-07D

## 7.2 TEST MODE

### 7.2.1 Entering the Test Mode

While both mechanisms are stop, press the TIME/COUNT, PAUSE keys of DECK I and RESET key of DECK II together to enter the test mode. (Refer to Fig. 1)

### 7.2.2 Exiting the Test Mode

- Press the RESET key of DECK I.
- Press the STANDBY key.
- Turn off the power.

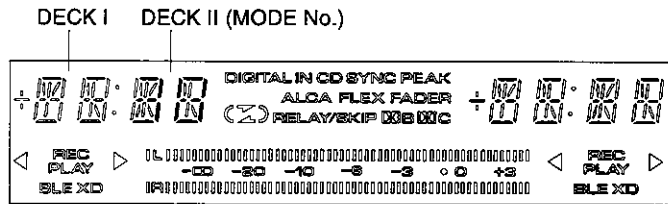
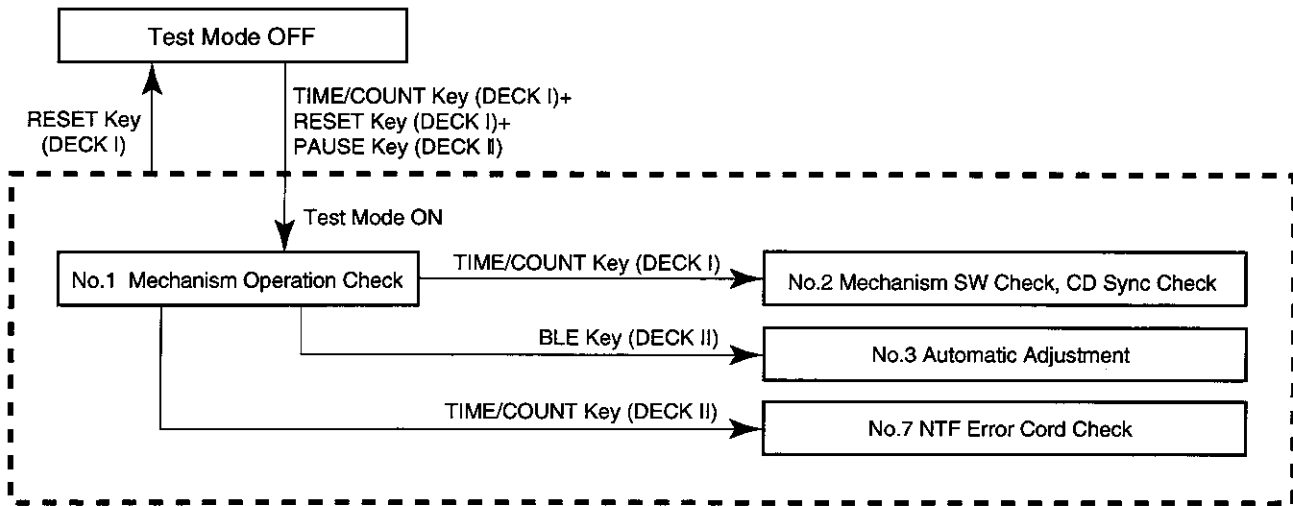


Fig. 1 FL Display Example

### 7.2.3 Shifting to Test Mode State



\* During the test mode, pressing the STOP key (DECK I or DECKII) will set test mode No. 1.

### 7.2.4 Main Test Mode Items

- Test mode No.1 ..... Mechanism Operation Check
- Test mode No.2 ..... Mechanism SW Check, CD Sync Check
- Test mode No.3 ..... Automatic Adjustment
- Test mode No.7 ..... NTF Error Code Check

### 7.2.5 Test Mode No. 1 (Mechanism Operation Check)

#### ■ Operations specifications

DECK I Display	DECK II Display	Input Key	Adjustment and Check
10	(TUNE)	STOP FWD REV FF REW REC PAUSE MUTE COPY MODE COPY START	<ul style="list-style-type: none"> <li>◆ The mechanism operates without the half in this mode.</li> <li>◆ Test speed adjustment                             <ul style="list-style-type: none"> <li>• During PLAY (except in assisting), when FF or REW key is pressed, ×2 speed PLAY is set.</li> <li>• During ×2 speed PLAY, when FWD or REV key is pressed, constant speed PLAY is set.</li> </ul> </li> <li>◆ Auto stop check                             <ul style="list-style-type: none"> <li>• Sets RELAY ON forcibly. However no relay during REC.</li> <li>• Even at tape end directly after PLAY, the auto stop time is 1 second. (Normally 4 seconds)</li> </ul> </li> <li>• Reverse operations are normally performed.</li> </ul>

When automatic adjustment has been completed, "TUNE" lights on the DECK II counter.

**7.2.6 Test Mode No. 2 (Mechanism SW Check, CD Sync Check)**

■ Entering the Mechanism SW check mode

Press the TIME/COUNT key (DECK I).

■ Exiting the Mechanism SW check mode

When the STOP key (DECK I or DECK II) is pressed, test mode No. 1 is set.

■ Operations specifications

DECK I Display	DECK II Display	Input Key	Line Mute	REC Mute	Bias	Adjustment and Check
20			ON	ON	OFF	<ul style="list-style-type: none"> <li>◆ SW check                             <ul style="list-style-type: none"> <li>• When there is a half, each counter shows "H" at the second digit from the left.</li> <li>• Accidental erasure detection check FWD recordable: "▶" lights up REV recordable: "◀" lights up</li> <li>• Tape type check When there is a tape, display is made at the first digit from the left on the counter. NORMAL TAPE : "n" CrO<sub>2</sub> TAPE : "C" METAL TAPE : "M"</li> <li>• Door open/close check When the side 1 door is open/close, display is made at the 3rd digit from the left on the side 2 counter. When the side 2 door is open/close, display is made at the 4th digit from the left on the side 2 counter. OPEN : "O" CLOSE : "C"</li> <li>• Timer SW check (CT-W806DR only) TIMER REC : REC Indicator (DECK II) OFF : TIMER PLAY : PLAY Indicator (DECK II)</li> </ul> </li> </ul>
		CD SYNC				<ul style="list-style-type: none"> <li>◆ CD sync check When the cord whose input and output are short-circuited is connected, and the CD SYNCHRO key is pressed, "CD SYNC" display lights up.</li> </ul>

**7.2.7 Test Mode No. 3 (Automatic Adjustment)**

For details, refer to "6. ADJUSTMENT".

DECK I Display	DECK II Display	Input Key	Adjustment and Check
PBR	PBR	STOP FWD REV REC	<ol style="list-style-type: none"> <li>① Press the BLE key to enter the automatic adjustment mode.</li> <li>② The individual adjustment values will be cleared when the STOP key (DECK I), the PAUSE key (DECK II), and the MUTE key (DECK II) are pressed together. ("PER" will flash.)</li> <li>③ Execute adjustment of playback level.</li> <li>④ Execute adjustment of recording bias and recording level.</li> <li>⑤ When all adjustments have been completed, "PBR" lights on the DECK I and DECK II counter.</li> <li>⑥ When the STOP key (DECK I or DECK II) is pressed, test mode No. 1 is set.</li> </ol>

# CT-W806DR, CT-07D

## 7.2.8 Test Mode No. 7 (NTF Error Code Check Mode)

### ■ Entering the NTF error code check mode

Press the TIME/COUNT key of DECK II.

When pressed again, the counter changes as follows.

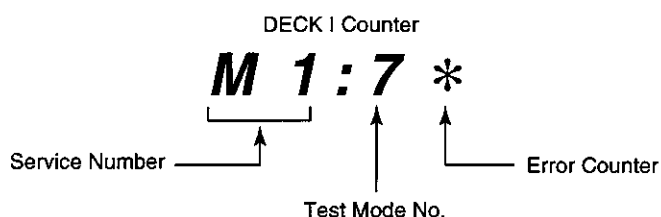
1 ⇒ 2 ⇒ 3 ⇒ 1

### ■ Exiting the NTF error code check mode

- When the STOP key (DECK I) is pressed, test mode No. 1 is set.

- When repair has been completed, reset the recorded error. (Press the STOP key, and press the TIME/COUNT key (DECK I) and the MUTE key (DECK II) immediately after entry into test mode.)

### ■ NTF error code check mode display



### ■ Operations specifications

Error Location	Service No.	State of Unit	Cause
BLE	B1 (DECK II) B3 (DECK I)	BLE Adjustment Error	<ul style="list-style-type: none"> <li>• The take-up side reel table stops during BLE operations.</li> <li>• The sensor at the reel table is faulty.</li> <li>• Tape end is set.</li> </ul>
	B2 (DECK II) B4 (DECK I)	BLE Adjustment Error	<ul style="list-style-type: none"> <li>• The signals were not recorded during BLE operations.</li> <li>• The Internal oscillator is not oscillation.</li> </ul>
Mechanism	M3	DECK I is locked	<ul style="list-style-type: none"> <li>• The mechanism and the half are engaged in DECK I.</li> </ul>
	M4	DECK II is locked	<ul style="list-style-type: none"> <li>• The mechanism and the half are engaged in DECK II.</li> </ul>
Cassette Door	L1	DECK I Door Loading	<ul style="list-style-type: none"> <li>• Closing has been tried with the tape inserted upside down.</li> <li>• Complete opening is not possible because an obstacle has been hit.</li> </ul>
	L2	DECK II Door Loading	

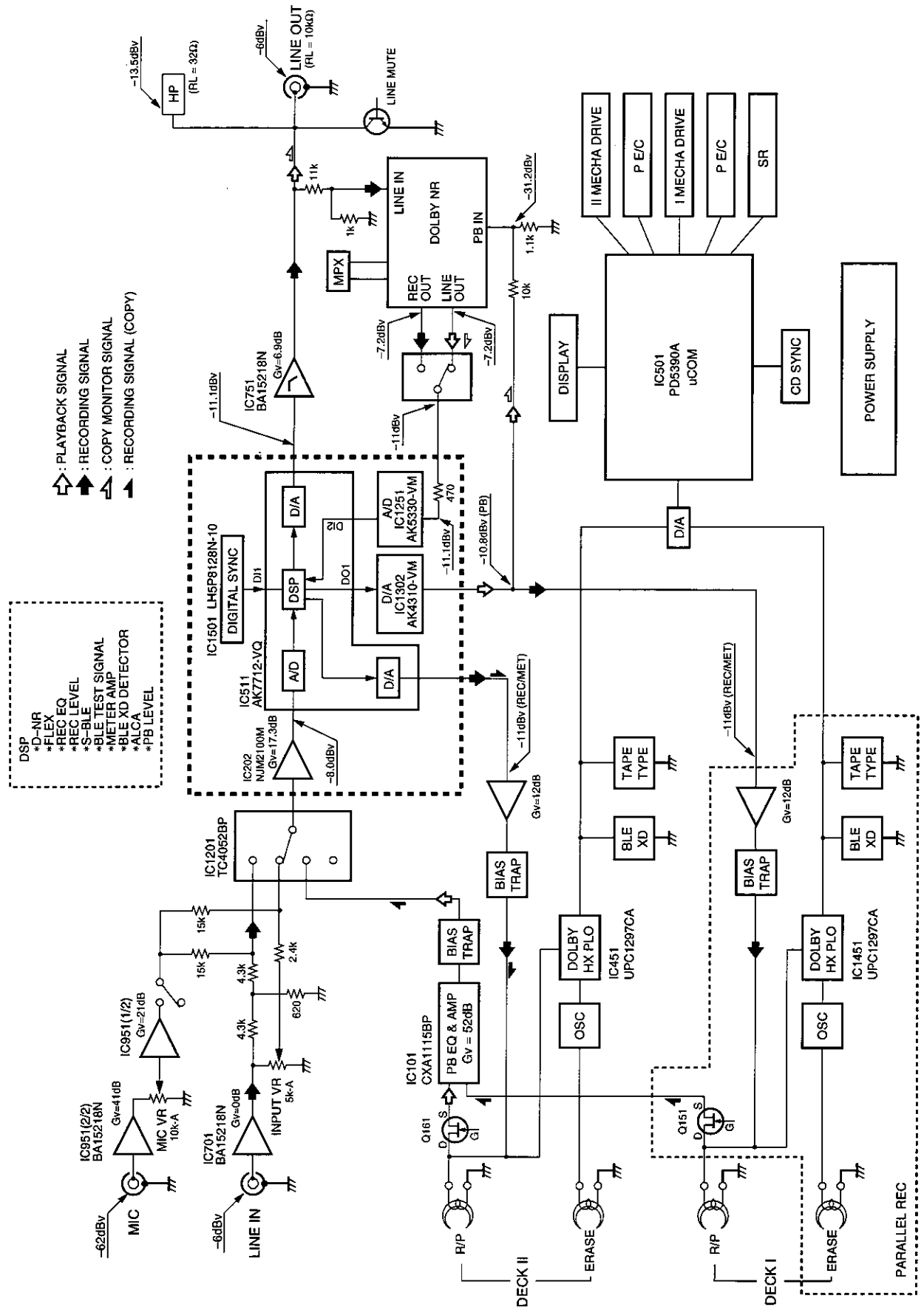
\* B3 and B4 on the DECK I side and B1 and B2 on the DECK II side light for the error No. of BLE errors.

### ■ Resetting the error code

To reset, press the TIME/COUNT key of DECK I and MUTE key of DECK II together.



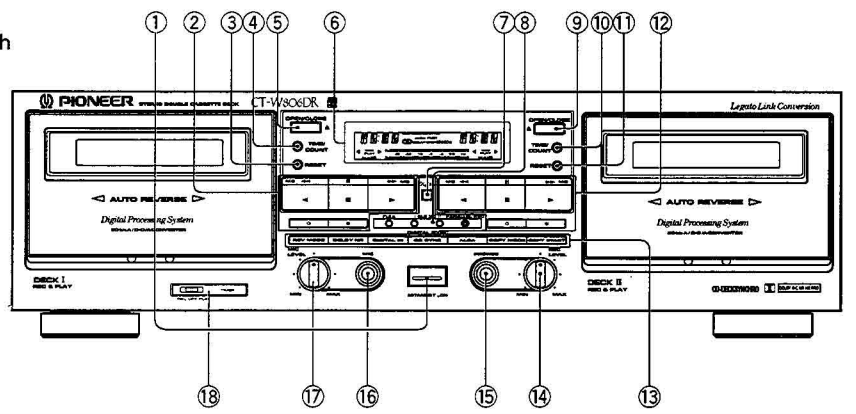
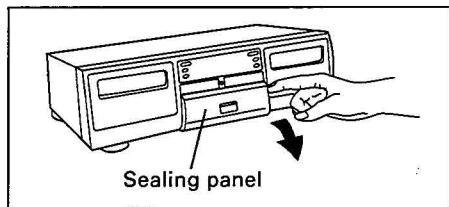
7.3 BLOCK DIAGRAM



## 8. PANEL FACILITIES AND SPECIFICATIONS

### ■ PANEL FACILITIES

- The illustration shows the condition in which the sealing panel is open.



#### ① STANDBY/ON switch

The STANDBY/ON switch activates the secondary transformer only. Even when the switch is in the STANDBY position, there will be a power flow to the deck's circuits as long as the power cord is connected to a power outlet. When the STANDBY/ON switch is left ON, standby mode is controlled by the connected amplifier's System Remote Control (SRC) function. Press the POWER button on the remote control to select the standby mode. This mode is displayed as "STBY" on the DECK II counter.

#### ② DECK I operation buttons

- ◀ : Reverse playback
- : Stop
- ▶ : Forward playback
- ◀◀/MS : Fast reverse/music search
- ▶▶/MS : Fast forward/music search
- : Recording mute
- ⏸ : Pause
- : Recording

#### ③ DECK I counter reset button (RESET)

#### ④ DECK I counter mode button (TIME/COUNT)

#### ⑤ DECK I OPEN/CLOSE button (▲)

- If the tape is moving (recording, playback, tape winding, etc.), press the stop (■) button before pressing this button.

#### NOTE:

If the power is turned off while the tape is moving, the cassette door may remain locked. In this case, turn the power on before pressing the OPEN/CLOSE (▲) button.

#### ⑥ Function display

#### ⑦ Digital indicator

Turns off while the Digital-NR is OFF.

#### ⑧ FLEX button

#### DECK I/II BLE XD button

#### PARALLEL REC button

#### ⑨ DECK II OPEN/CLOSE button (▲)

- If the tape is moving (recording, playback, tape winding, etc.), press the stop (■) button before pressing this button.

#### NOTE:

If the power is turned off while the tape is moving, the cassette door may remain locked. In this case, turn the power on before pressing the OPEN/CLOSE (▲) button.

#### ⑩ DECK II counter mode button (TIME/COUNT)

#### ⑪ DECK II counter reset button (RESET)

#### ⑫ DECK II operation buttons

- ◀ : Reverse playback
- : Stop
- ▶ : Forward playback
- ◀◀/MS : Fast reverse/music search
- ▶▶/MS : Fast forward/music search
- : Recording mute
- ⏸ : Pause
- : Recording

#### ⑬ REV MODE button

#### DOLBY\* NR button (OFF/B/C)

\*

- Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.
- "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

#### DIGITAL IN button

#### CD-DECK SYNCHRO recording button (CD SYNC)

#### ALCA button

#### COPY MODE button

TDNS : TDNS copy (Normal speed copy).

NOR : Normal speed copy.

HI : High speed copy.

#### COPY START button

#### ⑭ Recording level control (REC LEVEL)

#### ⑮ Headphones jack (PHONES)

#### ⑯ Microphone jack (MIC)

#### ⑰ MIC LEVEL control

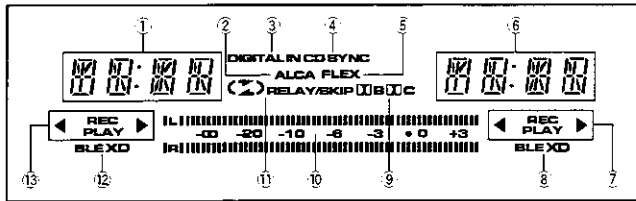
#### ⑱ TIMER switch (TIMER REC/OFF/PLAY) (CT-W806DR only)

REC : Set to this position to perform timer recording.

OFF : Set to this position under ordinary conditions (when not using the timer or repeat functions).

PLAY : Set to this position to perform timer playback. When the switch is set to this position during normal playback, repeat playback of a single tape can be performed.

## ■ FUNCTION DISPLAY




- ① **DECK I counter indicator**  
Normally the tape counter or time counter is displayed.  
It flashes for 4 seconds after turning the power on.
- ② **ALCA SYSTEM indicator**  
Lights when the ALCA system is used.
- ③ **DIGITAL IN indicator**  
This indicator light when the DIGITAL IN button is pressed.
- ④ **CD-DECK SYNCHRO indicator (CD SYNC)**  
This indicator lights steadily when the CD SYNC button is pressed and the operation starts.
- ⑤ **FLEX indicator**  
This indicator lights when the FLEX button is pressed.
- ⑥ **DECK II counter indicator**  
Normally the tape counter or time counter is displayed.  
It flashes for 4 seconds after turning the power on.
- ⑦ **DECK II tape transport mode indicators**
- ⑧ **DECK II AUTO BLE XD indicator**
- ⑨ **DOLBY NR B/C indicator**
- ⑩ **Level meter**  
Holds peak for about 1.3 seconds.  
The "●" mark beside the 0 dB mark indicates the Dolby NR system standard level.
- ⑪ **Reverse mode indicator**
- ⑫ **DECK I AUTO BLE XD indicator**
- ⑬ **DECK I tape transport mode indicators**

# CT-W806DR, CT-07D


## ■ SPECIFICATIONS

System .....	4-track, 2-channel stereo
Heads .....	"Hard Permalloy" recording/playback head x 2 "Ferrite" erasing head x 2
Motor .....	DC servo motor x 2 Loading motor x 2
Wow and Flutter .....	0.09% (WRMS) ±0.19% (DIN)
Fast Winding Time .....	Approximately 100 seconds (C-60 tape)
Frequency Response	
-20 dB recording:	
TYPE IV (Metal) tape .....	20 to 20,000 Hz
TYPE II (High/CrO <sub>2</sub> ) tape .....	20 to 19,000 Hz
TYPE I (Normal) tape .....	20 to 18,000 Hz
Signal-to-Noise Ratio	
Dolby NR OFF .....	More than 57 dB
Signal-to-Noise Ratio (when Digital NR ON)	
Dolby NR B or C-type ON .....	90 dB
Dolby NR OFF .....	82 dB (TYPE I tape, 3rd distortion 3%, IEC. DIN AUDIO)
Harmonic Distortion .....	No more than 0.8% (at -4 dB: 160 nwb/m)
Input (Sensitivity)	
LINE (INPUT) .....	100 mV (Input impedance 53 kΩ)
Output (Reference level)	
LINE (OUTPUT) .....	0.5 V (Output impedance 1.9 kΩ)
Headphones .....	1.33 mW (Load impedance 32 Ω)
<b>Miscellaneous</b>	
Power Requirements	
UK model .....	AC 230-240 V, 50/60 Hz
European model .....	AC 220-230 V, 50/60 Hz
Multivoltage model .....	AC 110/120-127/220/230-240 V (Switchable), 50/60 Hz
US, Canadian model .....	AC 120 V, 60 Hz
Power Consumption .....	25 W
Dimensions .....	420(W) x 125(H) x 250(D) mm
Weight (without package) .....	4.7kg (10 lb 6 oz)

## Subfunctions

- Automatic reverse
- DOLBY HX PRO system
- DOLBY B/C type NR systems
- Music search up to ±15 selections
- Synchronized copy start
- High-speed and normal-speed copy (DECK I → DECK II)
- Relay recording
- Parallel recording
- Relay playback/blank skip
- CD-DECK SYNCHRO recording capability
- Peak level meter with peak-hold function
- Automatic space recording mute
- Automatic tape selector
-  System remote control available
- 2-mode electronic 4-digit twin tape counter
- Headphone jack
- DIGITAL FLEX system (Frequency Level Expander)
- DIGITAL TDNS system (Tape Duplication Noise Suppressor)
- DIGITAL ALCA system (Auto Level Control with tape Analysis)
- DIGITAL SUPER AUTO BLE XD system
- LAST MEMORY
- DIGITAL NR
- Legato Link Conversion
- Power Loading/Eject
- DIGITAL SYNCHRO recording capability
- MIC MIXING
- MPX filter (Interlocks with DOLBY NR)

## Accessories

Operating instructions .....	1
Connection cord with pin plugs .....	2
 Remote control cord .....	1
CD-DECK SYNCHRO control cord .....	1
Optical fiber cable (except for UK and European models) .....	1

## NOTE:

Specifications and design subject to possible modifications without notice, due to improvements.