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# STEREO CONTROL AMPLIFIER CX-1000/U/2000

## SERVICE MANUAL

CX-1000/U/2000

### IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

**WARNING:** Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.


**IMPORTANT:** The presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

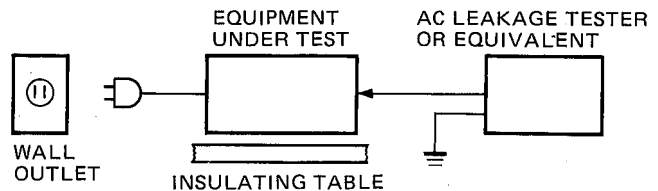
The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

**WARNING:** Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

**IMPORTANT:** Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

## TO SERVICE PERSONNEL

- Critical Components Information.**  
Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
- Leakage Current Measurement (For 120V Model Only).**  
When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.
  - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 $\mu$ F.
  - Leakage current must not exceed 0.5mA.
  - Be sure to test for leakage with the AC plug in both polarities.



### ● POLARIZATION

This tuner product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. (U.C model only)

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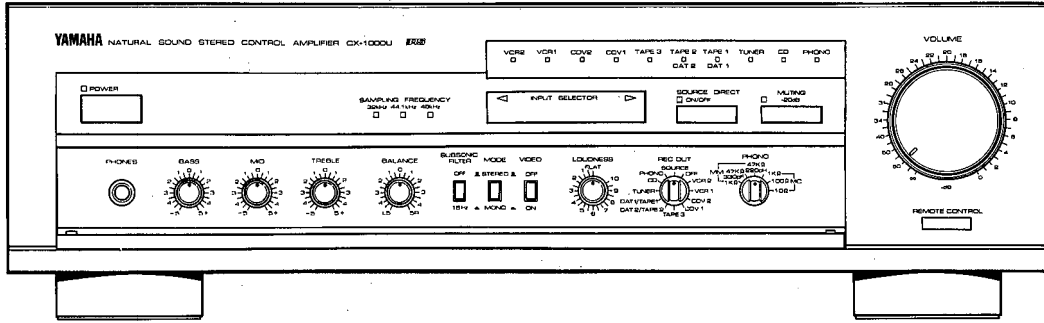
# YAMAHA

YAMAHA CORPORATION HAMAMATSU, JAPAN  
3.7K-162 © Printed in Japan '88.7

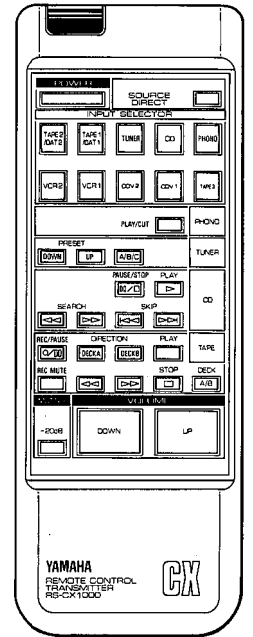
CX-1000/U/2000

FRONT PANELS

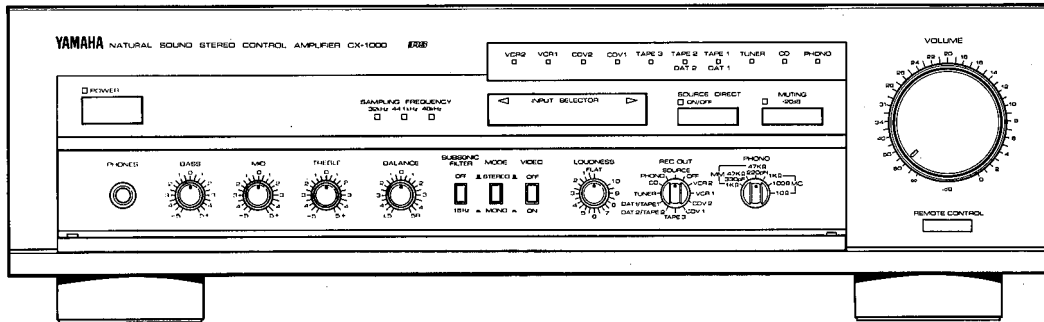
CX-1000U U, C models



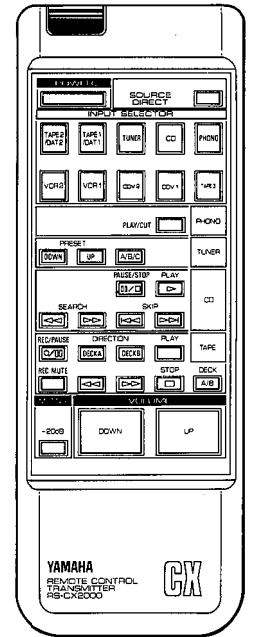
RS-CX1000



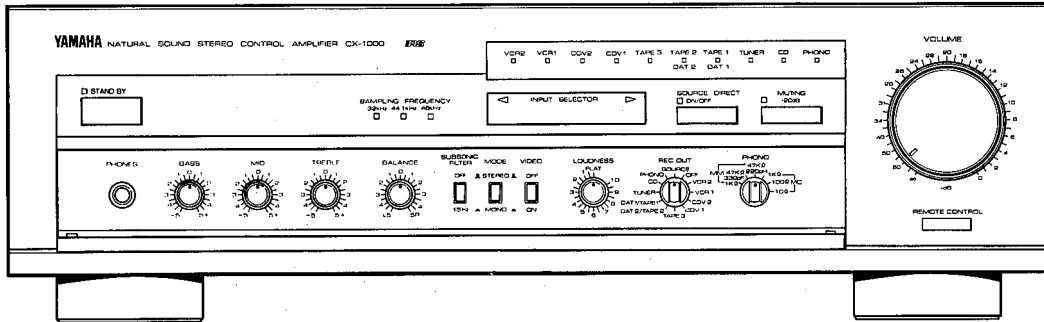
CX-1000 A, B R models



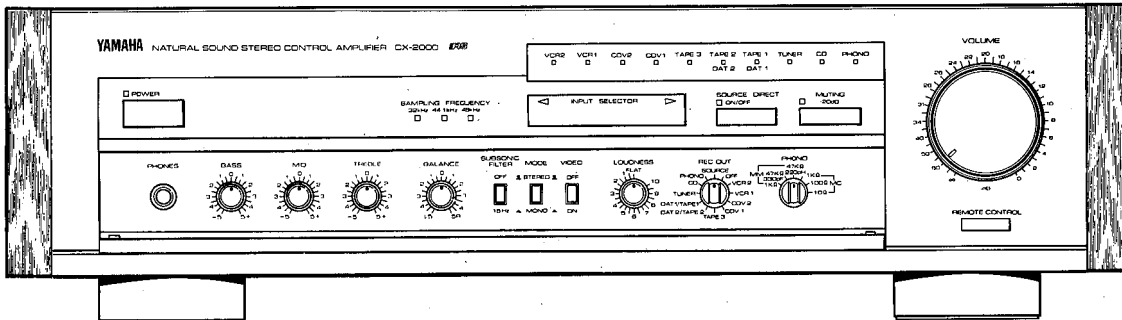
RS-CX2000



CX-1000 G model



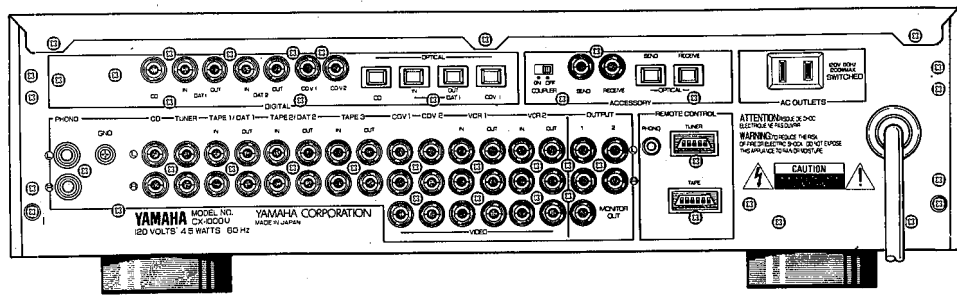
CX-2000



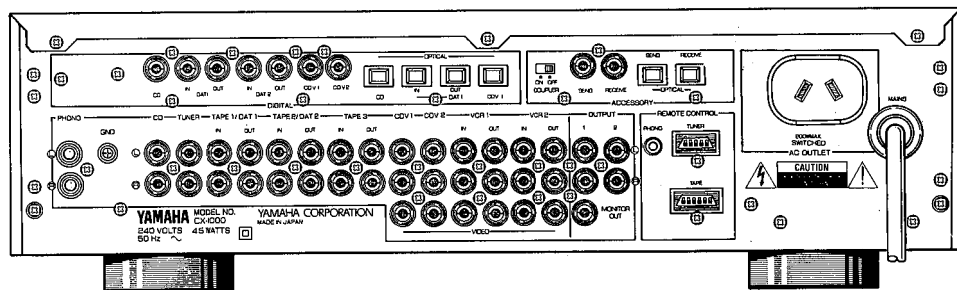
CX-1000/U/2000

REAR PANELS CX-1000/U

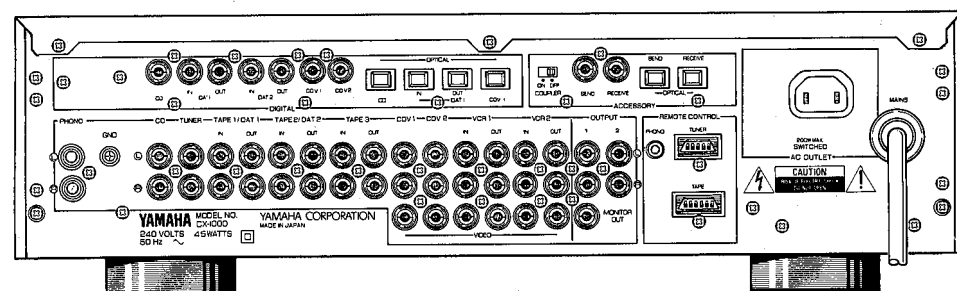
- U, C models



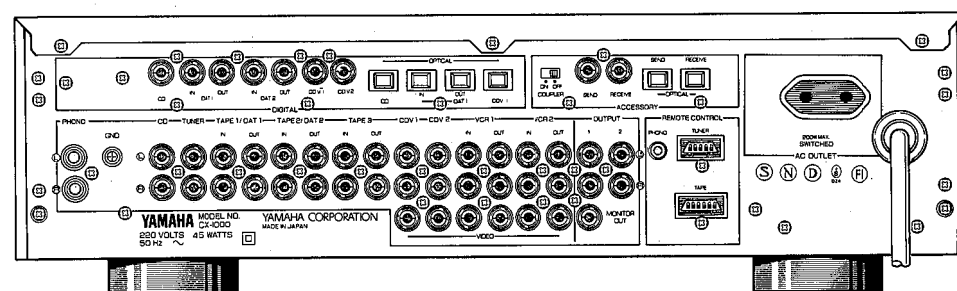
- A model



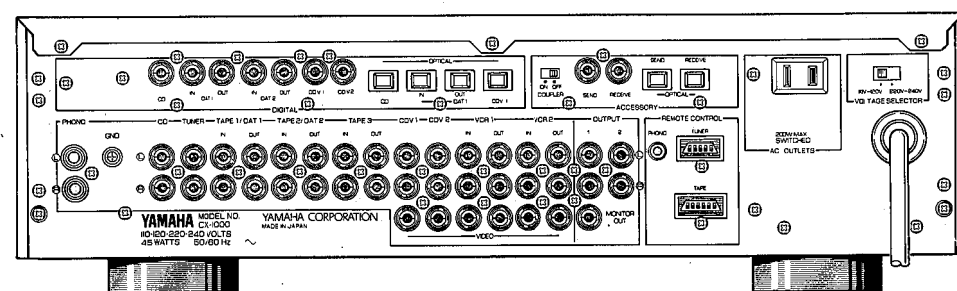
- B model



- G model

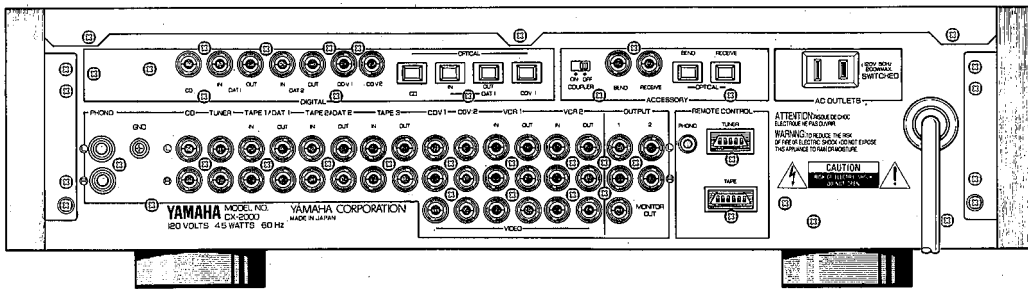


- R model



CX-1000/U/2000

REAR PANEL CX-2000



CX-1000/U/2000

SPECIFICATIONS

Input Sensitivity/Impedance

PHONO MC	100 $\mu$ V/10, 100, 1 k $\Omega$
PHONO MM	2.5 mV/1 k $\Omega$ , 47 k $\Omega$ (220p, 330p)
CD/VIDEO/TUNER/AUX/TAPE/VCR	150 mV/47 k $\Omega$

Input Sensitivity (New IHF)

PHONO MC	33 $\mu$ V
PHONO MM	0.83 mV
CD/VIDEO/TUNER/AUX/TAPE/VCR	50 mV

Maximum-Input Signal

1 kHz, 0.05% THD, PHONO MC	7 mV
1 kHz, 0.05% THD, PHONO MM	180 mV

Output Level/Impedance

REC OUT	150 mV/1 k $\Omega$
REC OUT	1.5 V/47 $\Omega$

Maximum Voltage Output

20 Hz ~ 20 kHz, 1% THD, PRE OUT	12 V
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Headphone Jack Rated Output/Impedance

RL = 100 ohms	4.5 V/100 $\Omega$
---------------	--------------------

Frequency Response

CD/VIDEO/TUNER/AUX/TAPE/VCR (20 Hz ~ 20 kHz)	+0, -0.2 dB
--	-------------

RIAA Equalization Deviation

PHONO MC/MM	$\pm$ 0.2 dB
-------------	--------------

Total Harmonic Distortion (20 Hz ~ 20 kHz)

PHONO MC to REC OUT, 1.5 V	0.002%
PHONO MM to REC OUT, 1.5 V	0.001%
CD/VIDEO/TUNER/AUX/TAPE/VCR to PRE OUT, 1.5 V	0.001%

Intermodulation Distortion

PRE OUT, 3 V	0.002%
--------------	--------

Signal to Noise Ratio (IHF-A-Network)

PHONO MC (500 $\mu$ V Input Shorted)	91 dB
PHONO MM (5 mV Input Shorted)	95 dB
CD/VIDEO/TUNER/AUX/TAPE/VCR (Shorted)	106 dB

Signal to Noise Ratio (New IHF)

PHONO MC	81 dB
PHONO MM	83 dB
CD/VIDEO/TUNER/AUX/TAPE/VCR	103 dB

Input Equivalent Noise

MC	-157 dBV
MM	-138 dBV

Residual Noise (IHF-A-Network)

	$\leq$ 1.5 $\mu$ V
--	--------------------

Channel Separation

PHONO MC, MM 1 kHz/10 kHz Input Shorted	80 dB/70 dB
(1 kHz/10 kHz CD/VIDEO/TUNER/AUX/TAPE/VCR 5.1 k $\Omega$ terminated)	90 dB/69.5 dB

Tone Control Characteristics

BASS	boost/cut	$\pm$ 10 dB (20 Hz)
	turnover frequency	350 Hz
TREBLE	boost/cut	$\pm$ 10 dB (20 kHz)
	turnover frequency	3.5 kHz
MID	control range	$\pm$ 10 dB (1 kHz)
	center frequency	1 kHz

Filter Characteristics

Subsonic	15 Hz, 12 dB/oct
----------	------------------

Continuous Loudness Control (Level related equalization)

Attenuation	-40 dB (1 kHz)
-------------	----------------

Audio Muting

	-20 dB
--	--------

Gain Tracking Error (0 ~ -60 dB)

	$\leq$ 2 dB
--	-------------

Power Supply

	AC 120 V, 60 Hz (U, C)
	AC 220 V, 50 Hz (G)
	AC 240 V, 50 Hz (A, B)

Power Consumption

	45 W
--	------

AC Outlet

Switched x 1	200 W max.
--------------	------------

Dimensions (W x H x D)

CX-1000/U	435 x 129.5 x 400 mm (17-1/8" x 5-3/32" x 15-3/4")
CX-2000	473 x 130 x 400 mm (18-5/8" x 5-1/8" x 15-3/4")

Weight

CX-1000/U	11.5 kg (25 lbs. 5 oz.)
CX-2000	12.2 kg (26 lbs. 13 oz.)

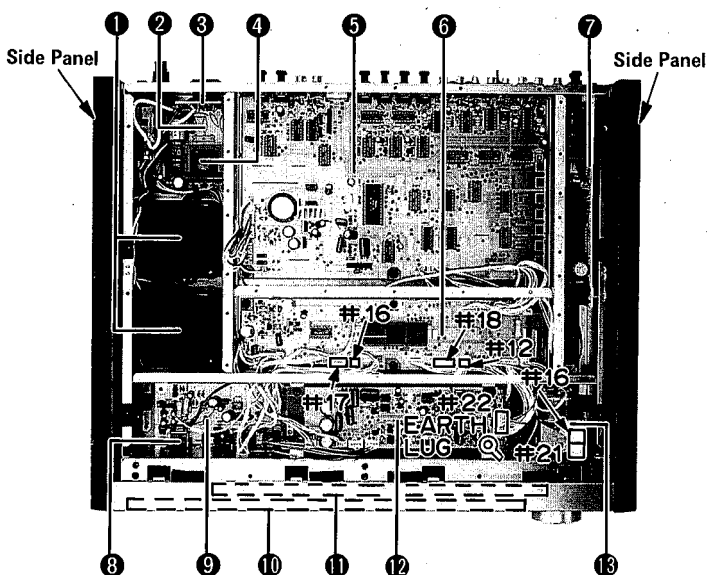
Specifications subject to change without notice.

(U)	U.S.A. model	(G)	European model
(C)	Canadian model	(B)	British model
(A)	Australian model	(R)	Other model

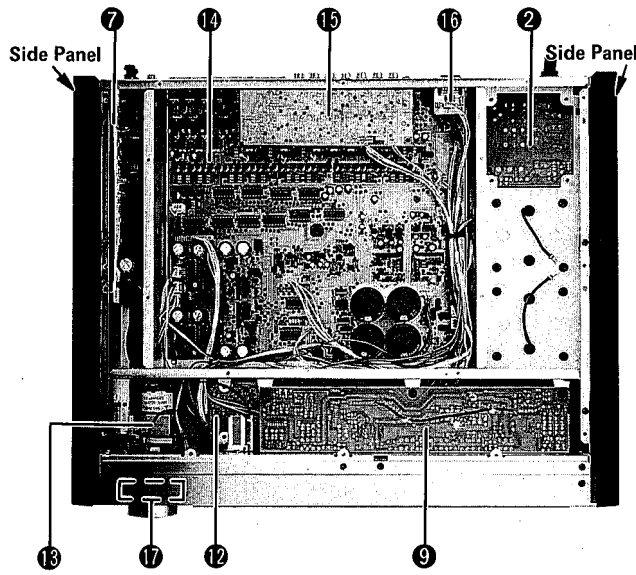
**INTERNAL VIEW**

Note: Side Panel (wood) is not attached to CX-1000/U.

(Top View)



(Bottom View)

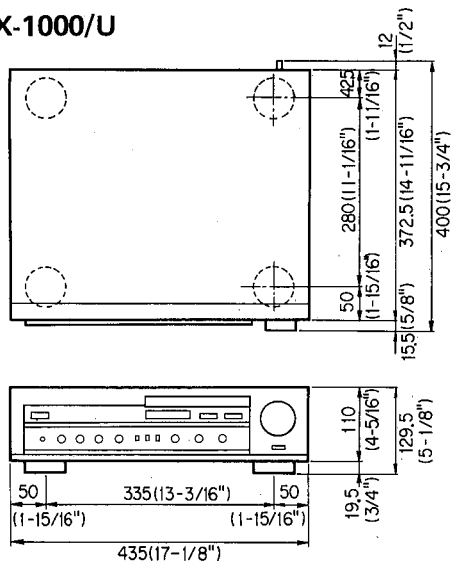


- ① POWER TRANSFORMER
- ② EQUALIZER CIRCUIT BOARD (2)
- ③ EQUALIZER CIRCUIT BOARD (9) : U, C, R Models  
EQUALIZER CIRCUIT BOARD (10) : A Model Only  
EQUALIZER CIRCUIT BOARD (11) : G Model Only  
EQUALIZER CIRCUIT BOARD (12) : B Model Only
- ④ SUB POWER TRANSFORMER
- ⑤ DIGITAL CIRCUIT BOARD (1)
- ⑥ DIGITAL CIRCUIT BOARD (2)
- ⑦ EQUALIZER CIRCUIT BOARD (1)
- ⑧ EQUALIZER CIRCUIT BOARD (5)

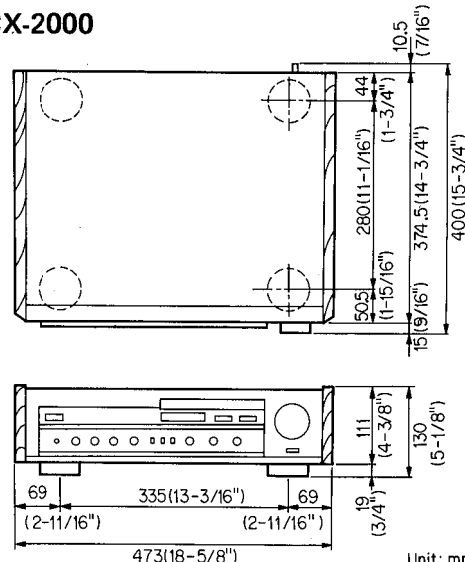
- ⑨ EQUALIZER CIRCUIT BOARD (3)
- ⑩ EQUALIZER CIRCUIT BOARD (7)
- ⑪ EQUALIZER CIRCUIT BOARD (8)
- ⑫ ANALOG CIRCUIT BOARD (2)
- ⑬ DIGITAL CIRCUIT BOARD (4)
- ⑭ ANALOG CIRCUIT BOARD (1)
- ⑮ DIGITAL CIRCUIT BOARD (3)
- ⑯ EQUALIZER CIRCUIT BOARD (6)
- ⑰ EQUALIZER CIRCUIT BOARD (4)

**DIMENSIONS**

● CX-1000/U



● CX-2000



Unit: mm (inch)

CX-1000/U/2000

**DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered)**

**CX-1000/U**

**1. How to remove Bottom Cover:**

- a. Remove 18 screws ① of Fig. 1.

**2. How to remove Top Cover:**

- a. Remove 7 screws ② of Fig. 1, remove the cover trying to lift in up.

**3. How to remove Front Panel:**

- a. Remove 7 knobs of Sealing Panel.
- b. Remove Connector located at 7 places (#6, 12, 16, 17, 18, 21, 22), and remove Land Metal Fitting.
- c. Remove 6 screws ③ of Fig. 1, and remove the Front Panel trying to pull it toward you.

**4. How to remove Shielde Plate:**

- a. Remove 18 screws ④ of Fig. 1.

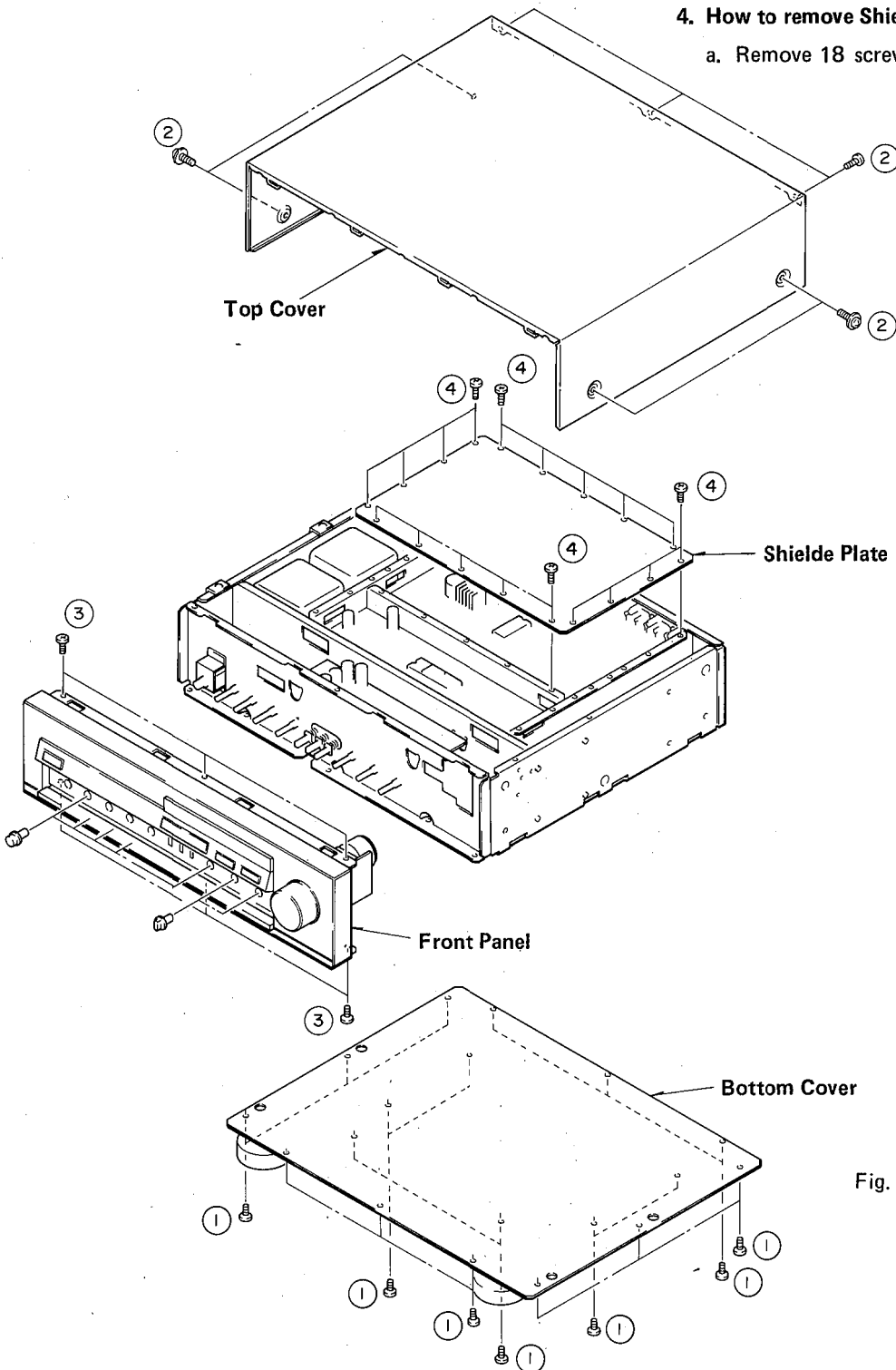


Fig. 1

## ■ DISASSEMBLY PROCEDURES (Remove parts in disassembly order as numbered)

### CX-2000

#### 1. How to remove Bottom Cover:

- a. Remove 18 screws of ① of Fig. 1.

#### 2. How to remove Top Panel:

- a. Remove 3 screws of ② of Fig. 1, and remove the Top Panel B.
- b. Remove 4 screws of ③ of Fig. 1, and remove the Top Panel A.

#### 3. How to remove Front Panel:

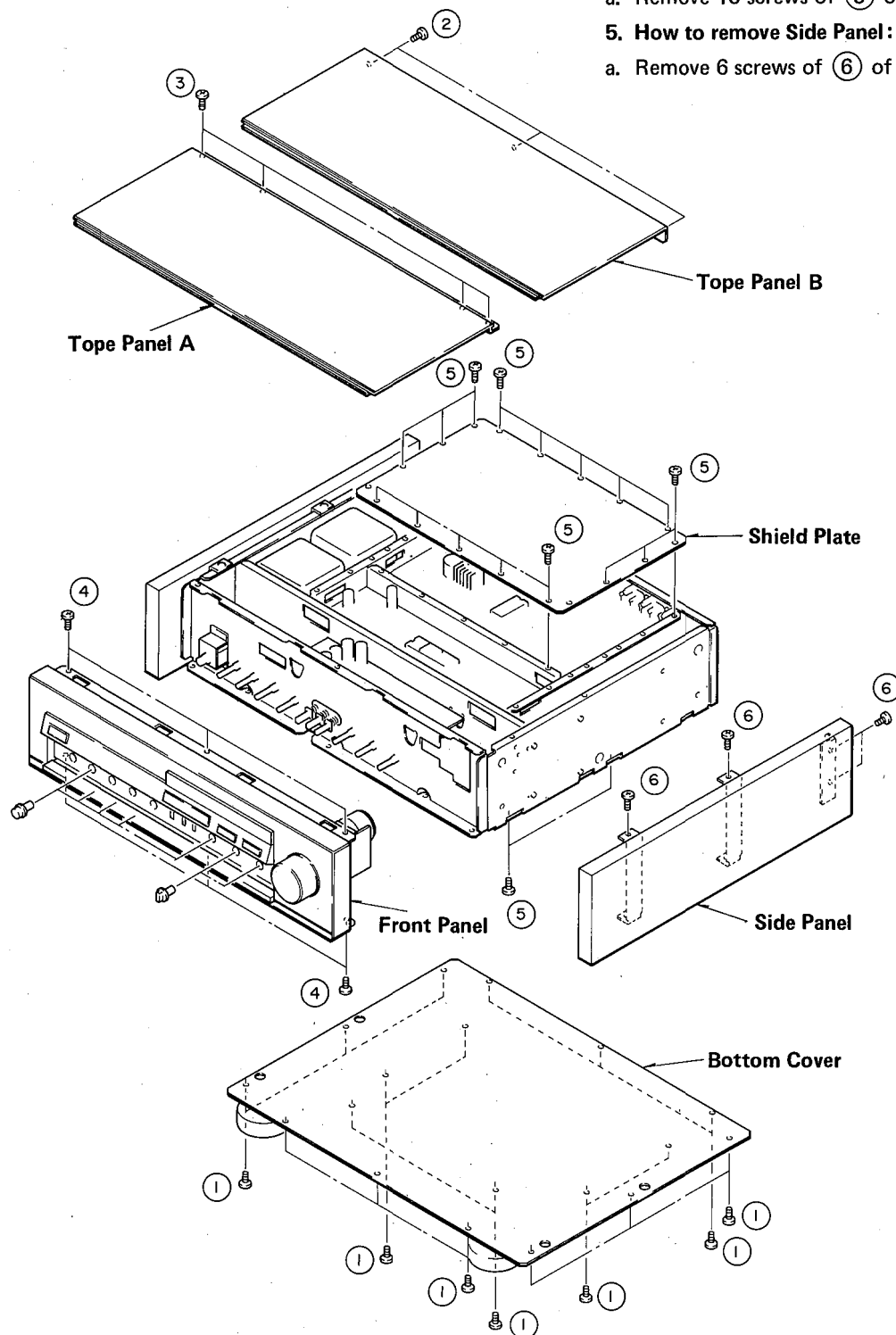
- a. Remove 7 knobs of Sealing Panel.
- b. Remove Connector located at 7 places (#6, 12, 16, 17, 18, 21, 22), and remove Land Metal Fitting.
- c. Remove 6 screws of ④ of Fig. 1, and remove the Front Panel trying to pull it toward you.

#### 4. How to remove Shield Plate:

- a. Remove 16 screws of ⑤ of Fig. 1.

#### 5. How to remove Side Panel:

- a. Remove 6 screws of ⑥ of Fig. 1.



## ■ ADJUSTMENTS

Before adjustment is conducted,

- In order to stabilize the operation of Amplifier, conduct the adjustment after having done 3 minutes aging with power ON under non-signal status.

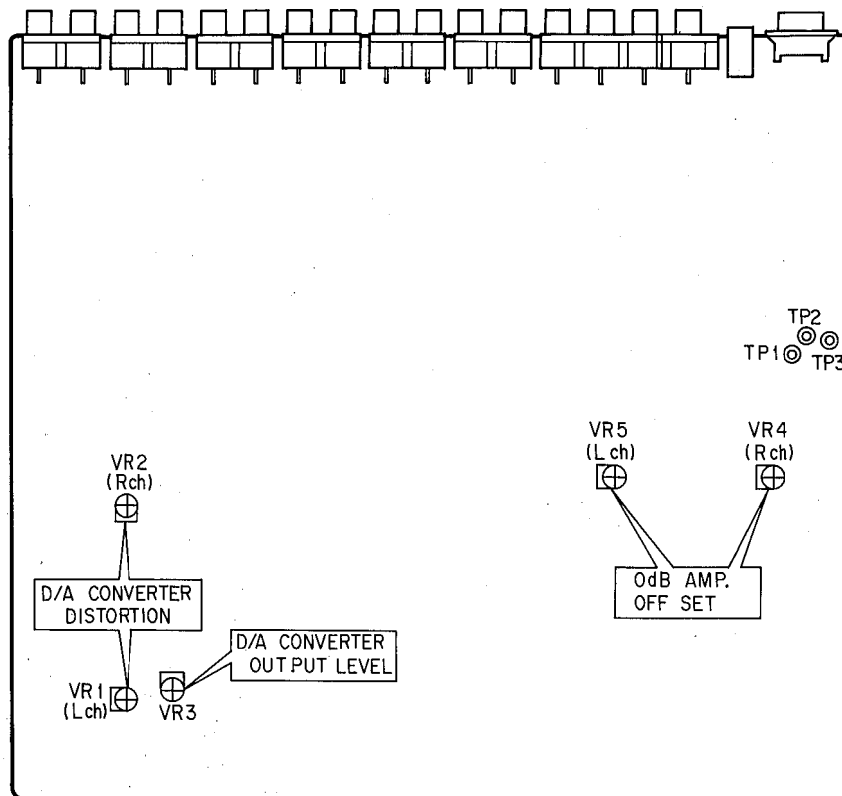
Step	Adjustment	Measuring Place	Adjustment Place	Specification
1	Adjustment of Distortion Degree	Analog Circuit Board (1) Digital 1kHz, 0dB Signal	VR1 (L) VR2 (R)	Adjust it so as to be the best condition. (See Note: 1)
2	Adjustment of Offset of 0dB Amplifier Part	Analog Circuit Board (1) TP1-TP2 (L) TP3-TP2 (R)	VR5 (L) VR4 (R)	Set Main VR at position of min. 2.0 mV ~ 2.5 mV
3	Output Level Adjustment of D/A Converter	Analog Circuit Board (1) Input Digital 1kHz, 0dB Signal. Adjust VR, so that channel balance may be within the specification, when REC OUT output (Analog) is $2.0V \pm 0.4V$ .	VR3	Less than 1dB at SOURCE REC position.

**Note:**

- Use 20 kHz. LPF.
- MAIN VOL MIN.
- Place REC OUT SELECTOR at SOURCE REC position, and measure REC OUT output (Analog).  
As to input, input Digital Signal of 1 kHz 0dB in DIGITAL CD INPUT terminal (Connect CD Player having DIGITAL OUT).

● Test Point

**ANALOG CIRCUIT BOARD (1)**



CX-1000/U/2000

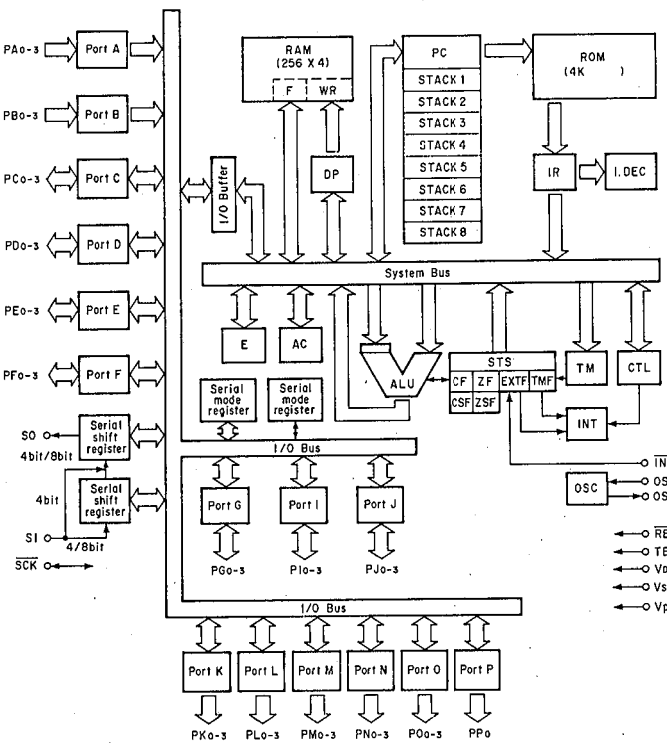
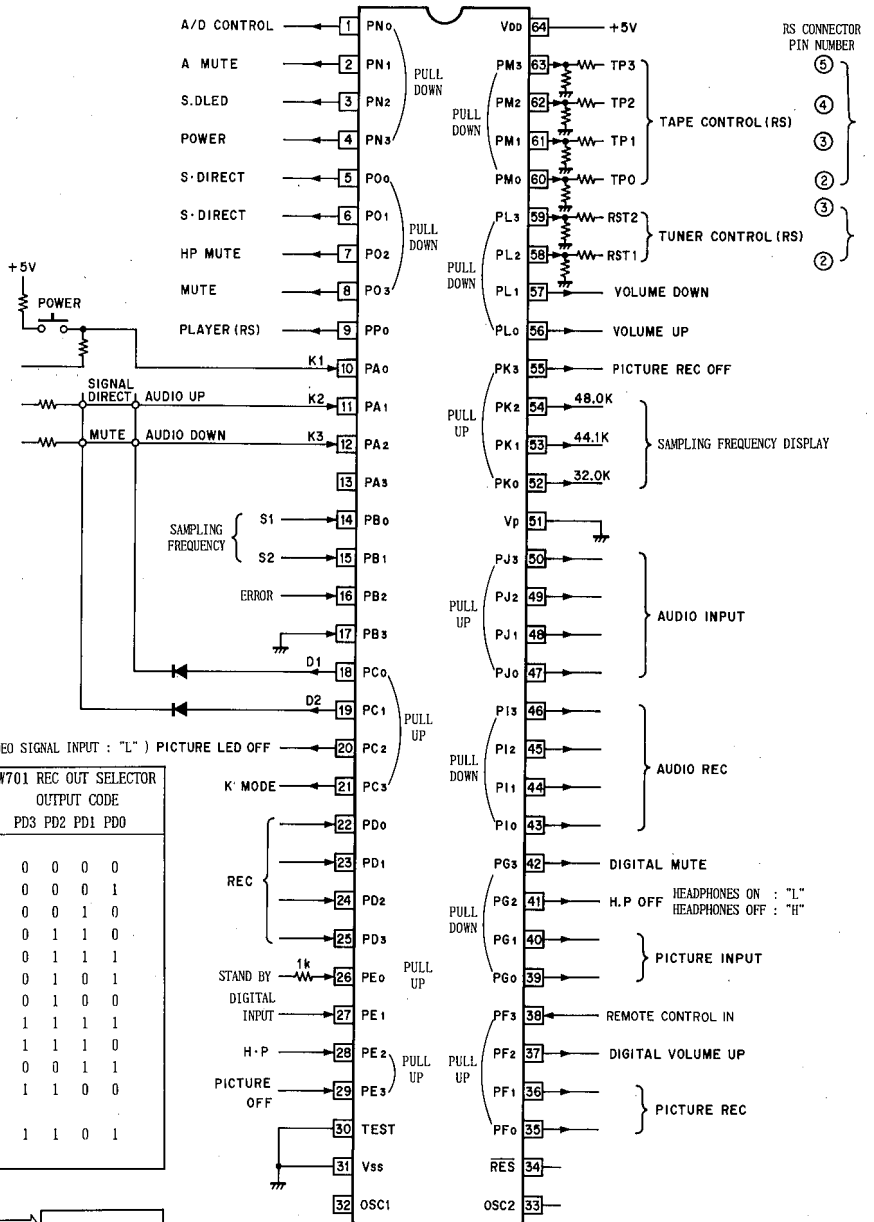
IC BLOCK

IC433: LC6554H-3709  
(4-bit Micro Computer)

SAMPLING FREQUENCY		
S1	S2	FREQUENCY
0	0	44.1kHz
0	1	48.0kHz
1	1	32.0kHz

FUNCTION	AUDIO INPUT				AUDIO REC				PICTURE	SW701 REC OUT SELECTOR OUTPUT CODE			
	PJ3	PJ2	PJ1	PJ0	PI3	PI2	PI1	PI0		PD3	PD2	PD1	PD0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
CDV 2	0	0	0	1	0	0	0	1	0	1	0	0	0
CDV 1	0	0	1	0	0	0	1	0	1	0	0	0	0
DAT 2/TAPE 2	0	0	1	1	0	0	1	1	0	0	1	0	0
DAT 1/TAPE 1	0	1	0	0	0	1	0	0	1	0	1	1	1
TUNER	0	1	0	1	0	1	0	1	0	0	1	1	1
CD	0	1	1	0	0	1	1	0	0	0	1	0	1
PHONO	0	1	1	1	0	1	1	1	0	0	1	0	0
VCR 2	1	0	0	0	1	0	0	0	0	1	1	1	1
VCR 1	1	0	0	1	1	0	0	1	1	1	1	0	0
TAPE 3	1	0	1	0	1	0	1	0	0	0	0	1	1
-	1	1	1	0	1	1	1	0	0	1	1	0	0
(SOURCE)	1	1	1	1	1	1	1	1	1	1	0	1	1
(REC OFF)	1	1	1	1	1	1	1	1	1	1	0	1	1

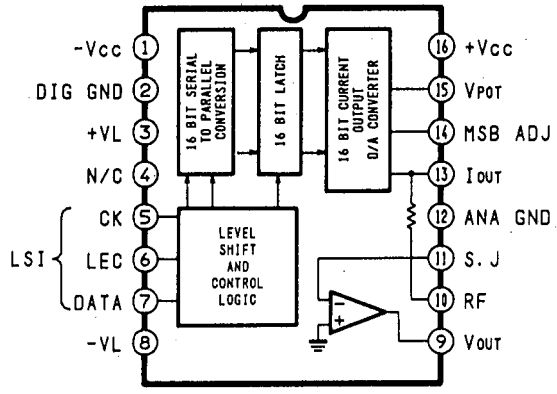
(VIDEO SIGNAL INPUT : "L") PICTURE LED OFF



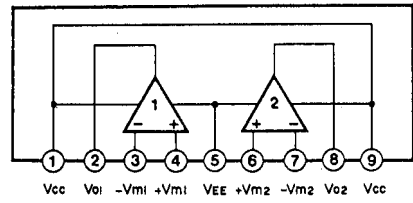
NOTE) Pins S1, S0, SCK, INT are commonly used with PF0, PF1, PF2, and PF3, respectively

CX-1000/U/2000

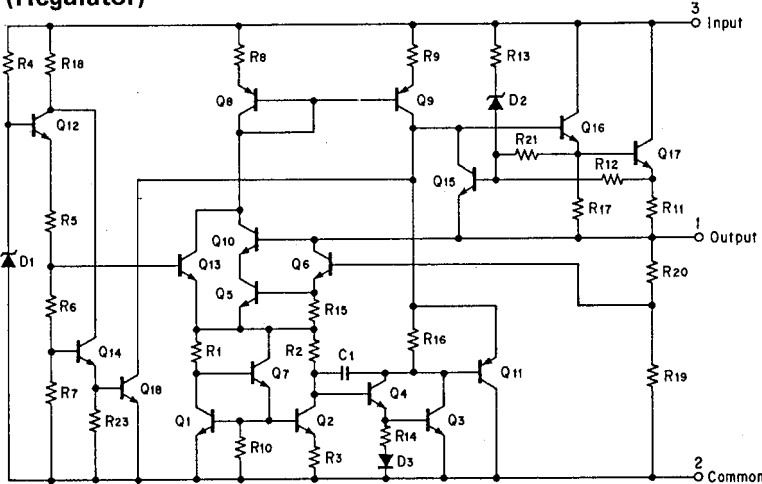
IC1, 2: PCM56P-K  
(D/A Converter)



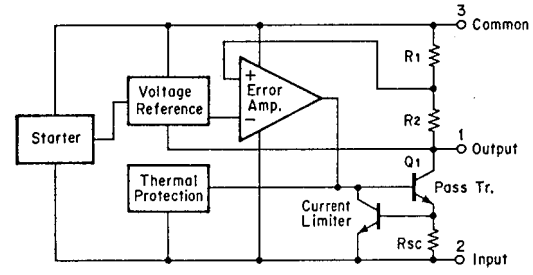
IC3 ~ 6, 801 ~ 804: NJM5532SD  
IC7, 8, 301, 302: NJM5532S  
IC407, 421: NJM4556SA  
IC407, 421: NJM4558S  
(Dual Ope-Amp)



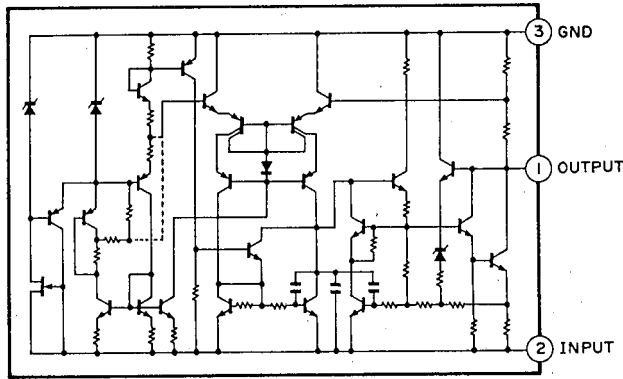
IC9: AN7812  
IC17, 18, 303: AN7820  
(Regulator)



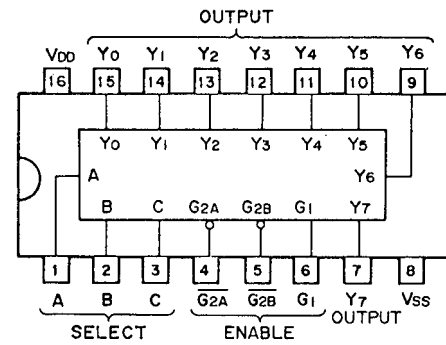
IC10: AN7912  
IC39, 40, 304: AN7920  
(Regulator)



IC12, 14: NJM79M12A  
IC426: AN79M05 or NJM79M05  
(Regulator)



IC32 ~ 35, 37, 901 ~ 903:  $\mu$ PD74HC238C  
(Decoder/Demultiplexer)

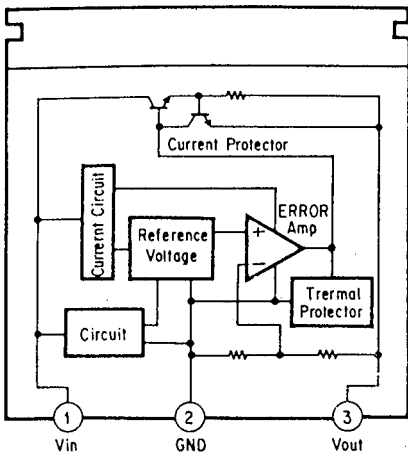


Truth Table

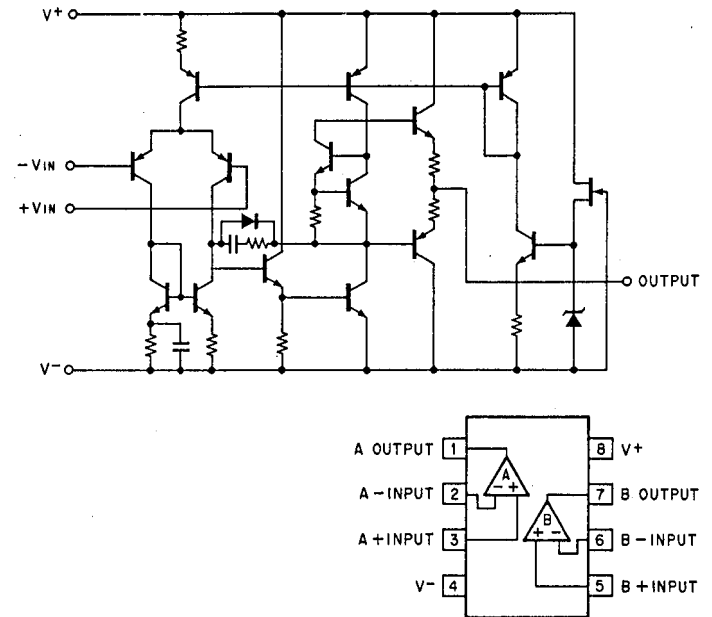
INPUT		OUTPUT											
ENABLE	SELECT	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11
G1	G2*	C	B	A	Y0	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8
X	H	X	X	X	L	L	L	L	L	L	L	L	L
L	X	X	X	X	L	L	L	L	L	L	L	L	L
H	L	L	L	L	H	L	L	L	L	L	L	L	L
H	L	L	L	H	L	L	L	H	L	L	L	L	L
H	L	L	H	L	L	L	L	L	H	L	L	L	L
H	L	H	L	L	L	L	L	L	L	H	L	L	L
H	L	H	L	H	L	L	L	L	L	L	H	L	L
H	L	H	H	L	L	L	L	L	L	L	L	H	L
H	L	H	H	H	L	L	L	L	L	L	L	L	H

G2\* = G2A X G2B  
H: HIGH LEVEL L: LOW LEVEL X: H or L

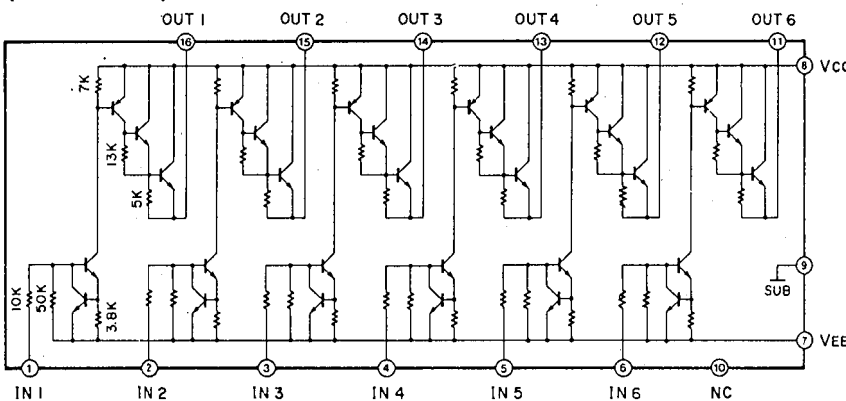
IC11, 13: NJM78M12A  
 IC425, 428: AN78M05 or NJM78M05  
 (Regulator)



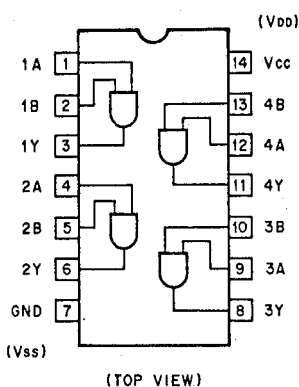
IC19 ~ 27: NJM2068DD  
 (Dual Ope-Amp)



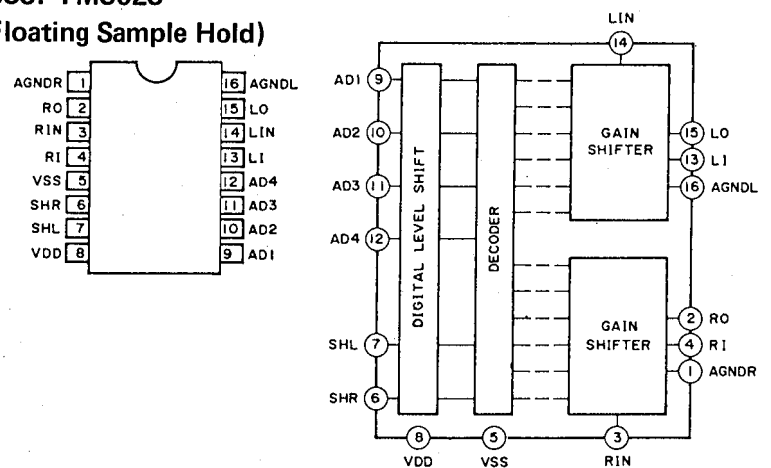
IC15, 16, 28 ~ 31, 435: LB1294  
 (LED Driver)



IC36, 418, 431  
 TC74HC08 or  $\mu$ PD74HC08C or  
 M74HC08P or MN74HC08  
 (Quad 2-Input AND Gate)

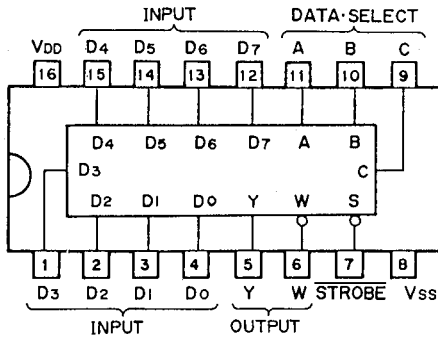


IC38: YM3023  
 (Floating Sample Hold)



CX-1000/U/2000

**IC410 ~ 412:  $\mu$ PD74HC151C  
(8 to 1 Data Selector)**

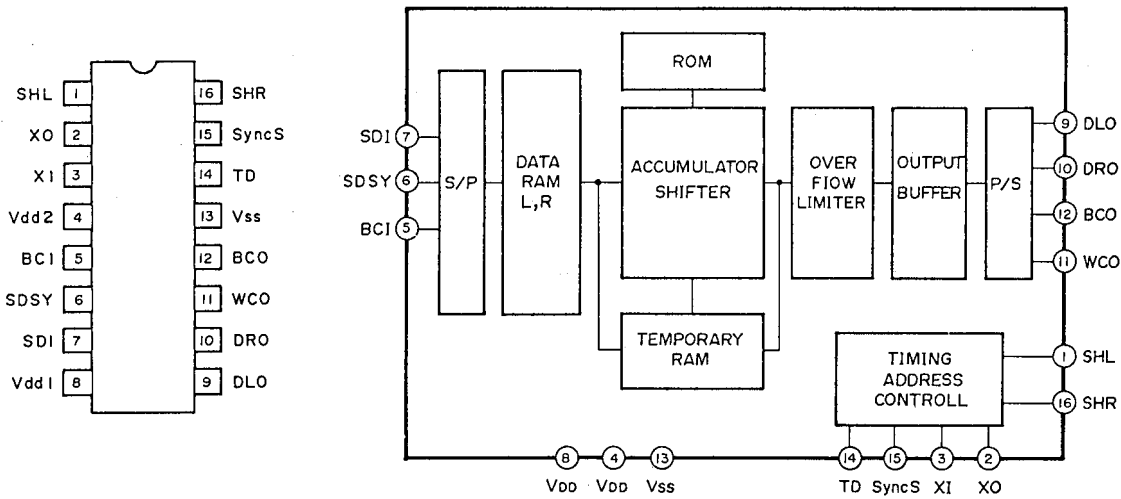


Truth Table

INPUT			OUTPUT		
SELECT			STROBE	Y	W
C	B	A	S		
X	X	X	H	L	H
L	L	L	L	D <sub>0</sub>	$\overline{D_0}$
L	L	H	L	D <sub>1</sub>	$\overline{D_1}$
L	H	L	L	D <sub>2</sub>	$\overline{D_2}$
L	H	H	L	D <sub>3</sub>	$\overline{D_3}$
H	L	L	L	D <sub>4</sub>	$\overline{D_4}$
H	L	H	L	D <sub>5</sub>	$\overline{D_5}$
H	H	L	L	D <sub>6</sub>	$\overline{D_6}$
H	H	H	L	D <sub>7</sub>	$\overline{D_7}$

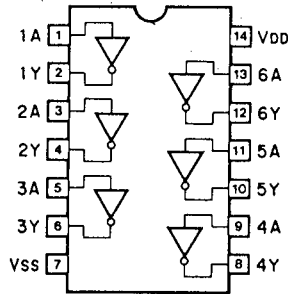
H: HIGH LEVEL L: LOW LEVEL X: H or L

**IC422. YM3414  
(2-ch, 8-ch Digital Filter)**

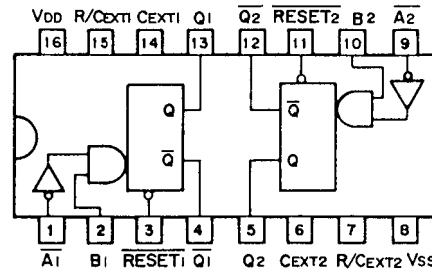


Pin No	Pin Name	I/O	Function
1	SHL	0	At 1 DAC : L channel deglitcher signal output At 2 DAC : L,R channel deglitcher signal output
2	XO	0	Clock oscillation 16.9344MHz
3	XI	I	
4	Vdd 2		+5V power supply for clock and deglitcher signal
5	BCI	I	Enters bit clock of input date
6	SDSY	I	Identifies L or R channel of input data and specifies data input timing
7	SDI	I	Serial input of converted digital signal
8	Vdd 1		+5V power supply for digital signal
9	DLO	0	At 1 DAC : L,R channel data output At 2 DAC : L channel data output
10	DRO	0	R channel data output
11	WCO	0	Word clock of output data (DLO, DLR)
12	BCO	0	Output of output data bit clock
13	Vss		Ground
14	TD	I	1 DAC= "L" or 2 DAC= "H" select input
15	Sync S	0	Sync S = "H" : Synchronized input, Sync S = "L" : Prohibition SDSY
16	SHR	0	At 1 DAC : R channel deglitcher signal output

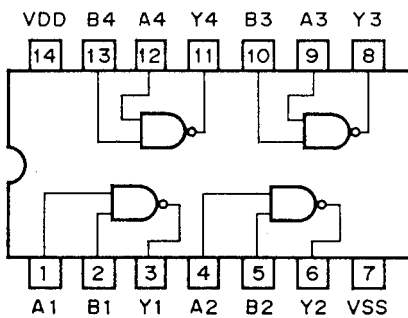
IC401 ~ 404, 407, 429:  $\mu$ PD74HCU04C  
(Hex Inverters)



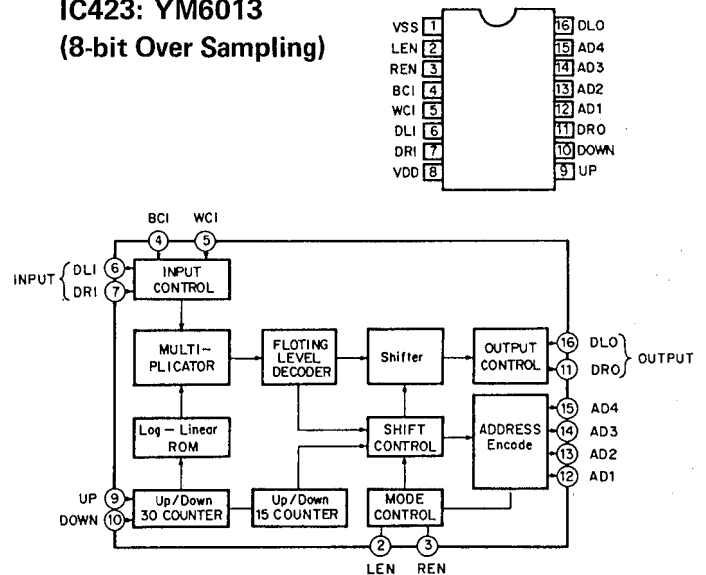
IC405, 406, 408, 424:  $\mu$ PD74HC123AC  
(Dual Retriggerable Single Shot)



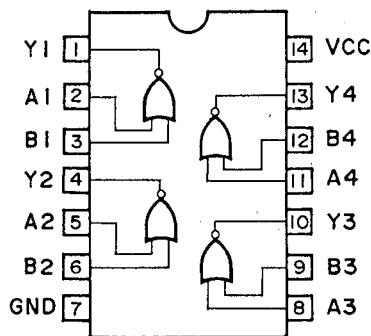
IC413 ~ 415, 417:  
TC74HC00P or  $\mu$ PD74HC00C or  
M74HC00P or MN74HC00P  
(Quad 2-Input NAND Gate)



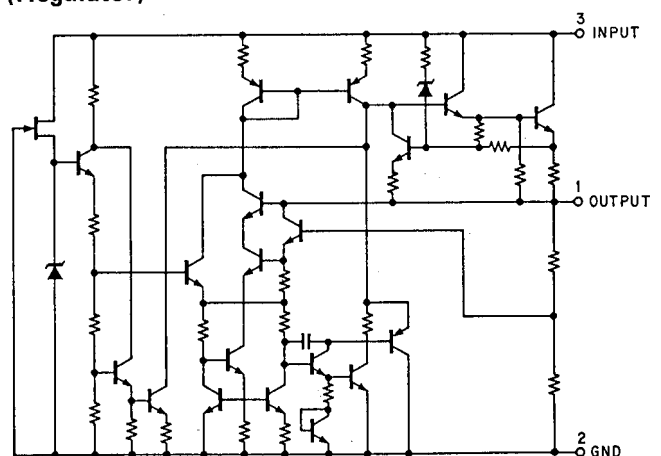
IC423: YM6013  
(8-bit Over Sampling)



IC416, 419, 430:  
TC74HC02P or  $\mu$ PD74HC02P or  
M74HC02P or MN74HC02  
(Quad 2-Input NOR Gate)

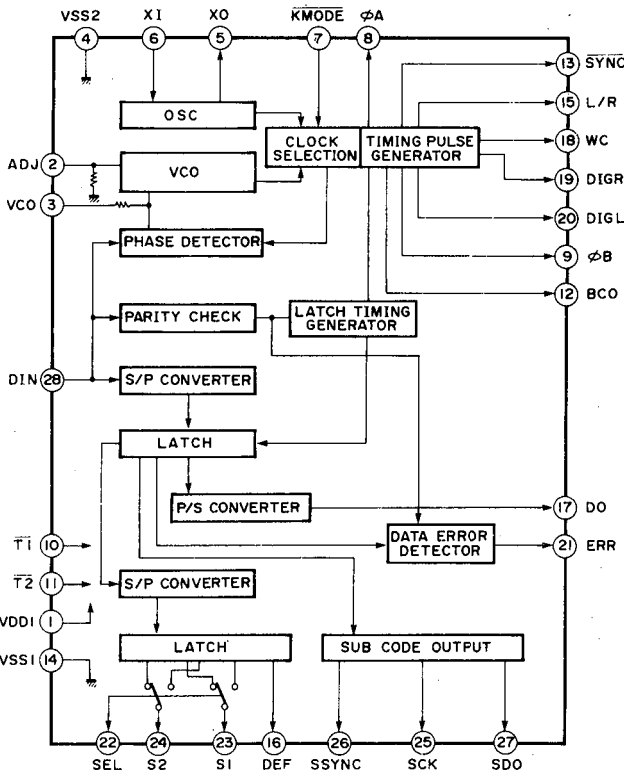
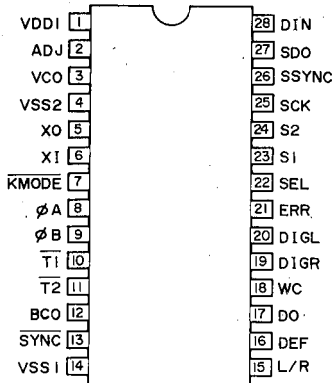


IC427: NJM7805A  
(Regulator)



CX-1000/U/2000

IC420: YM3623B  
(Digital I/O)



• S1, S2 SEL

The output function of S1 and S2 pins is increased. Switching the SEL pin input will switch to S1 or S2 pin output.

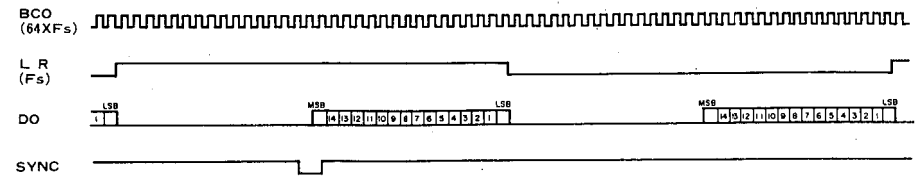
Input	Output		Output	
	SEL	S1 Function	S2	Function
L	L	Copy forbidden	L	CD (except DAT)
	H	Copy enable	H	DAT
H	L		L	Sampling frequency of DIN input signal 44.1KHz
	L		H	48.1KHz
	H		H	32kHz
	H		L	—

As in the above table, necessary data is drawn out of the digital audio interface format signals which have been entered and output at S1 and S2 pins.

The pin with (PU) in the I/O column is pulled up internally.

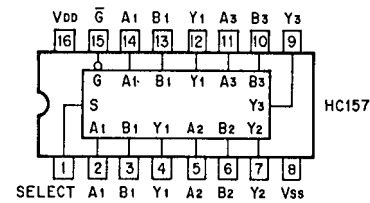
Pin No.	Pin Name	I/O	Function
1	VDD1		Power supply for system (+5V)
2	ADJ	I	For adjustment of VCO oscillation frequency, non-connected
3	VCO	I/O	External capacitor terminal for VCO circuit
4	Vss2		Ground of VCO circuit Connect commonly with Vss1 (Inside of IC is not used in common.)
5	XO	O	For crystal oscillator (16.9344MHz)
6	XI	I	For crystal oscillator
7	KMODE	I (PU)	H: Activates PLL circuit if input is entered to DIN pin but if not, it operates by using crystal oscillator. L: Uses crystal oscillator regardless of DIN pin
8	φA	O	Crystal oscillator oscillation frequency output (16.9344MHz)
9	φB	O	1/3 division of φA when crystal oscillator is used With PLL circuit in operation, it varies depending on data speed entered to DIN pin (About 5.6448 MHz when fs = 44.1 kHz)
10	T1	I (PU)	For checking internal circuit
11	T2	I (PU)	For checking internal circuit
12	BCO	O	Timing clock of output signal from DO pin
13	SYNC	O	Synchronizing signal
14	Vss1	O	System ground (+0V)
15	L/R	O	Indicates that H = L channel and L = R channel data is output from DO pin
16	DEF	O	H: Indicates that input data is emphasized L: Indicates that input data isn't emphasized
17	DO	O	16 bit data output
18	MC	O	Indicates that data is output at DO pin
19	DIGR	O	Signal for R channel deglitch
20	DIGL	O	Signal for L channel deglitch
21	ERR	O	H: Indicates parity error or in operation with crystal L: Indicates that there is no error
22	SEL	I (PU)	Refer to the separate table.
23	S1	O	Refer to the separate table.
24	S2	O	Refer to the separate table.
25	SCK	O	Clock for sub-code output
26	SSYNC	O	Signal for sub-code
27	SDO	O	For output of sub-code data
28	DIN	I (PU)	For data input

● OUTPUT TIMING



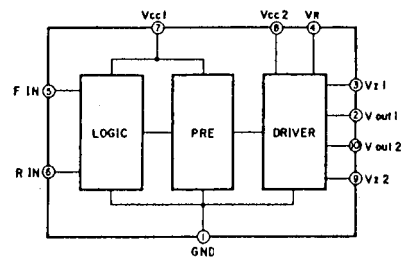
Note) FS shows the sampling frequency. For example, it is 44.1kHz with the compact disk and 48kHz with the DAT.

IC432:  $\mu$ PD74HC157C  
(Quad 2-Input Data Selector/Multiplexer)

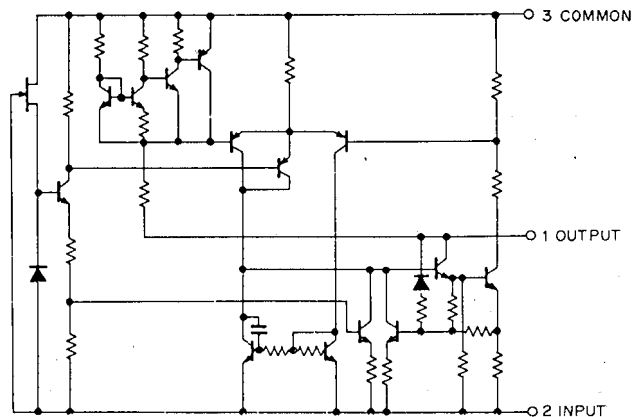


OUTPUT ENABLE G	SELECT	A	B	OUTPUT
H	x	x	x	L
L	L	L	x	L
L	L	H	x	H
L	H	x	L	L
L	H	x	H	H

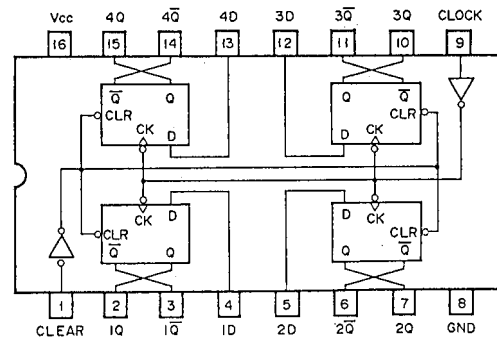
IC434: BA6209  
(Motor Driver)



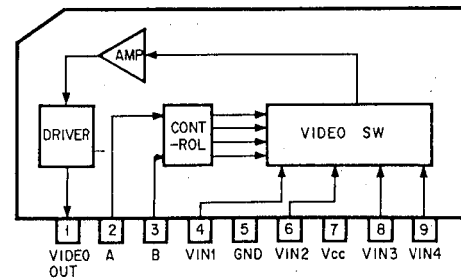
IC436:  $\mu$ PC78L05J  
(Regulator)



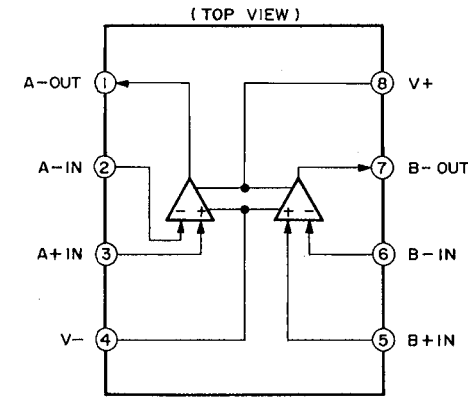
IC437: TC74HC175P or MC74HC175N  
(Quad D-Type Flip-Flop with Clear)



IC501 ~ 503: LA7952  
(Video Switch)

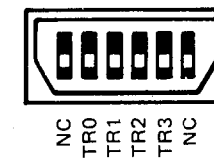


IC701, 702: NJM5532DD  
(Dual Ope-Amp)

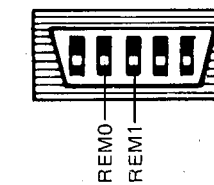


● Remote Control Terminal

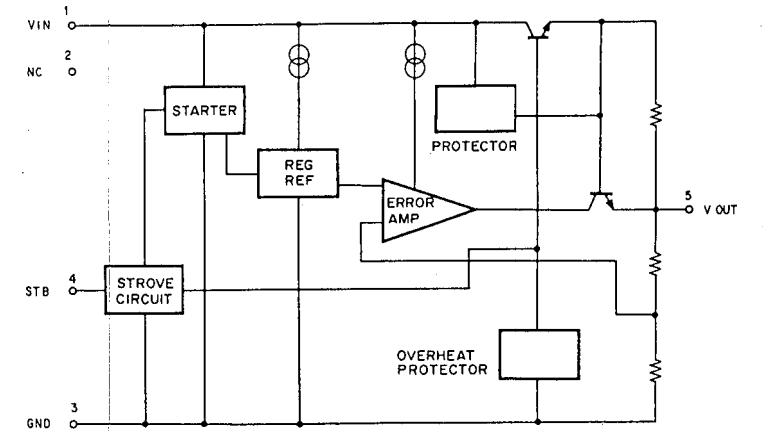
(Tape)



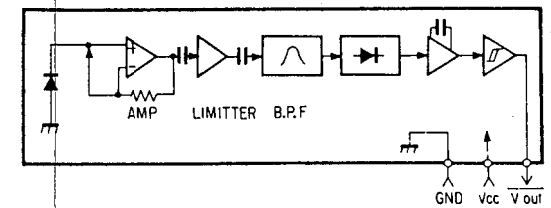
(Tuner)



IC504, 505: L780S12  
(Voltage Regulator)



U701: GP1U011 or GP1U501  
(Remote Control Receptor)



TR3	TR2	TR1	TR0	MODE
L	L	L	L	NO DATA
L	L	L	H	STOP
L	L	H	L	FF
L	L	H	H	REW
L	H	L	L	PLAY
L	H	L	H	REC PAUSE
L	H	H	L	REC MUTE
L	H	H	H	FADER
H	L	L	L	CUE
H	L	L	H	REVIEW
H	H	L	L	DIRECTION

Note) H . . . . . 3V ~ 5V  
L . . . . . Less than 0.6V  
Pulse . . . More than 30msec

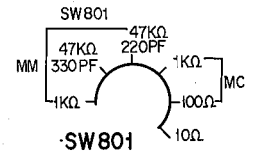
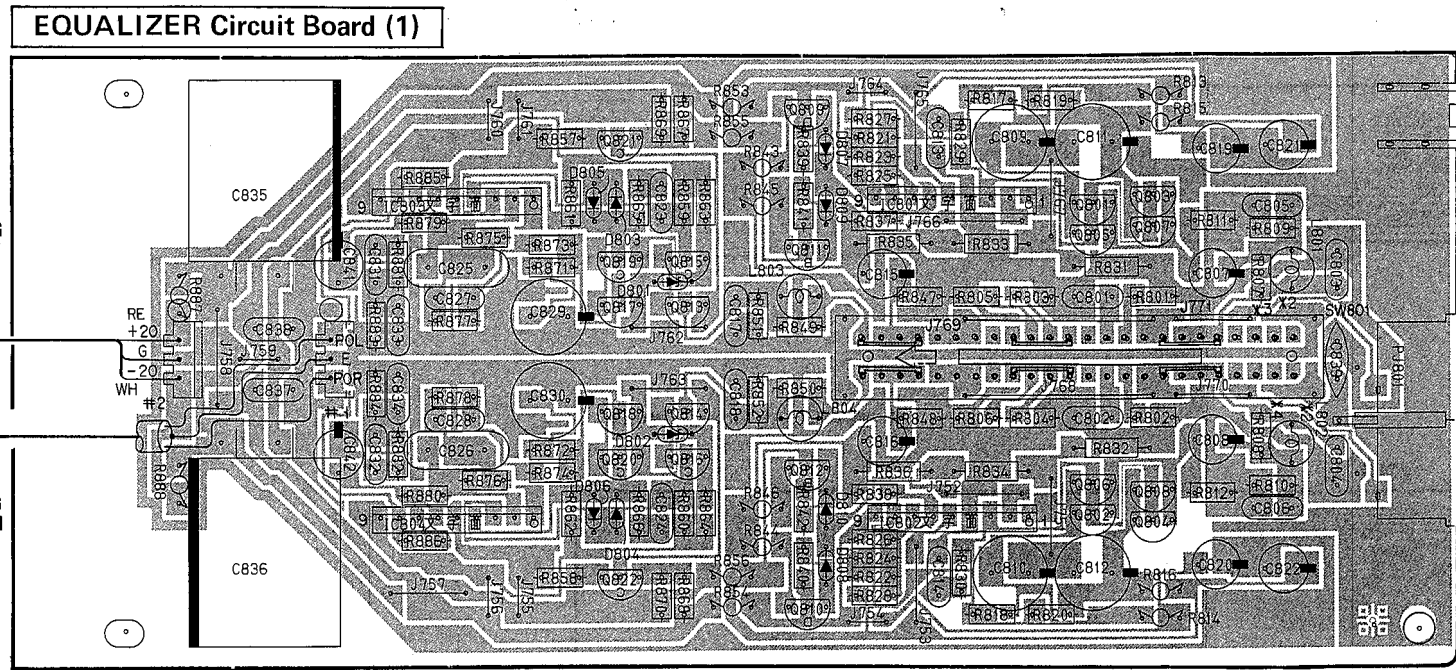
MODE	REM 0	REM 1
UP	H	L
DOWN	L	H
P1-P8/P9-P16	H	H

L = 0 ~ 1.5V  
H = 3.3 ~ 5.5V



PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

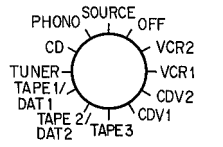
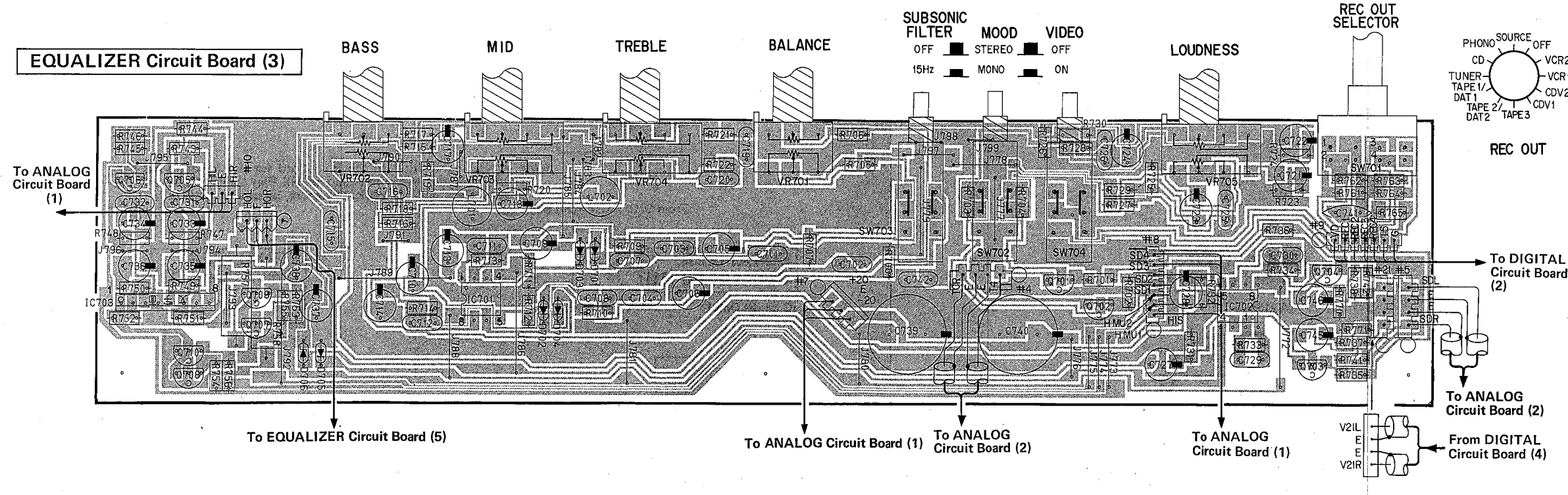
1  
2  
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7



Note : marked

*	J	U.C	R	A	B	G
1	C329, 330	OPEN	①0.033/50k			
2	L801, 802	OPEN				15 μH
3	R807	SHORT				220
4	R808	SHORT				220
5	S1, S2, S3	x	x	○	x	x
6	J701	○	○	x	○	x
7	FUSE HOLD	x	x	x	x	○
8	F701	OPEN				T2, 5A250V
9	R903	OPEN				2.2k
10	R110 ~ 113	SHORT	2P 4, 7	SHORT		

EQUALIZER Circuit Board (3)

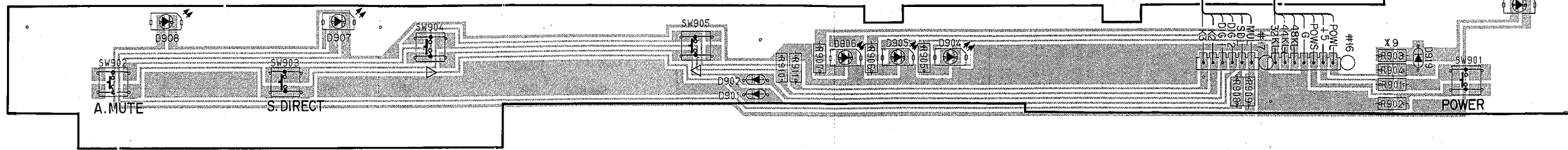


W701 : REC OUT SELECTOR OUTPUT CODE TABLE

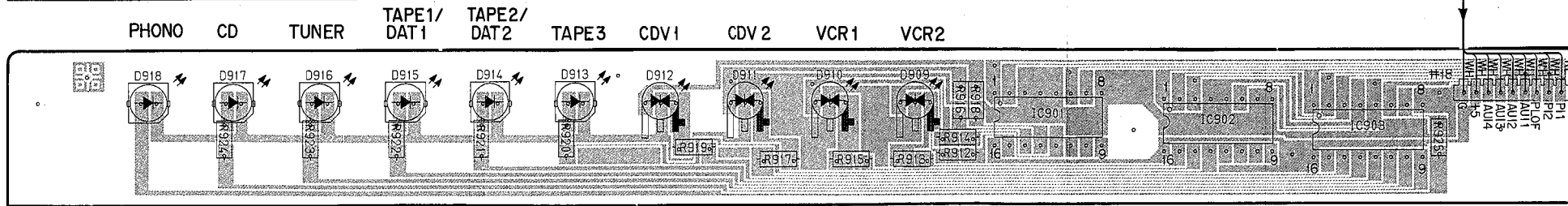
SELECT POSITION	PIN NO.			
	4	3	2	1
PHONO	0	1	0	0
CD	0	1	0	1
TUNER	0	1	1	1
TAPE 1/DAT 1	0	1	1	0
TAPE 2/DAT 2	0	0	1	0
TAPE 3	0	0	1	1
CDV 1	0	0	0	1
CDV 2	0	0	0	0
VCR 1	1	1	1	0
VCR 2	1	1	1	1
OFF	1	1	0	1
SOURCE	1	1	0	0

1  
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7

EQUALIZER Circuit Board (7)



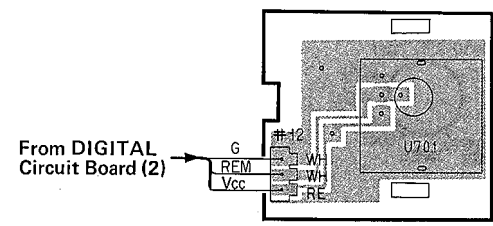
EQUALIZER Circuit Board (8)



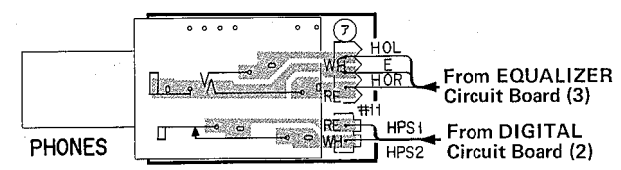
Note : marked

#		J	U,C	R	A	B	G
1	C329,330	OPEN	⊙0.033/50k				→
2	L801,802	OPEN					15 μH
3	R807	SHORT					220
4	R808	SHORT					220
5	S1,S2,S3	x	x	○	x	x	x
6	J701	○	○	x	○	○	x
7	FUSE HOLD	x	x	x	x	x	○
8	F701	OPEN					T2.5A250V
9	R903	OPEN					2.2k
10	R110 ~113	SHORT	2P 4.7	SHORT			→

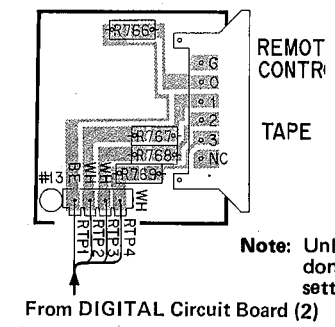
EQUALIZER Circuit Board (4)



EQUALIZER Circuit Board (5)

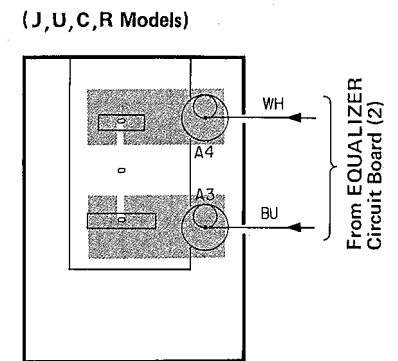


EQUALIZER Circuit Board (6)

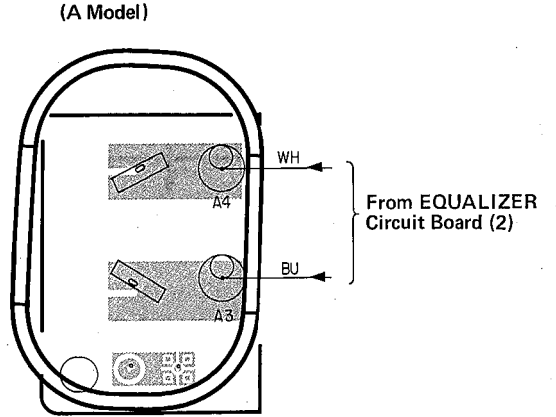


Note: Unless connection of Pin Plug Cord for use in sound has been done besides the connection of RS Flat Cable, Tuner and Cassette Deck will not work. Therefore, be sure to confirm it.

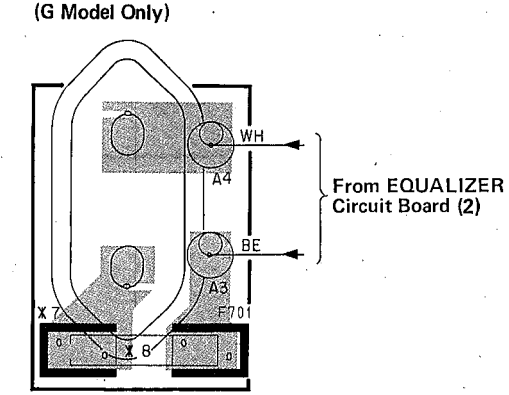
EQUALIZER Circuit Board (9)



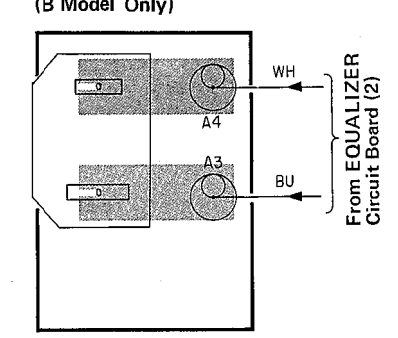
EQUALIZER Circuit Board (10)



EQUALIZER Circuit Board (11)

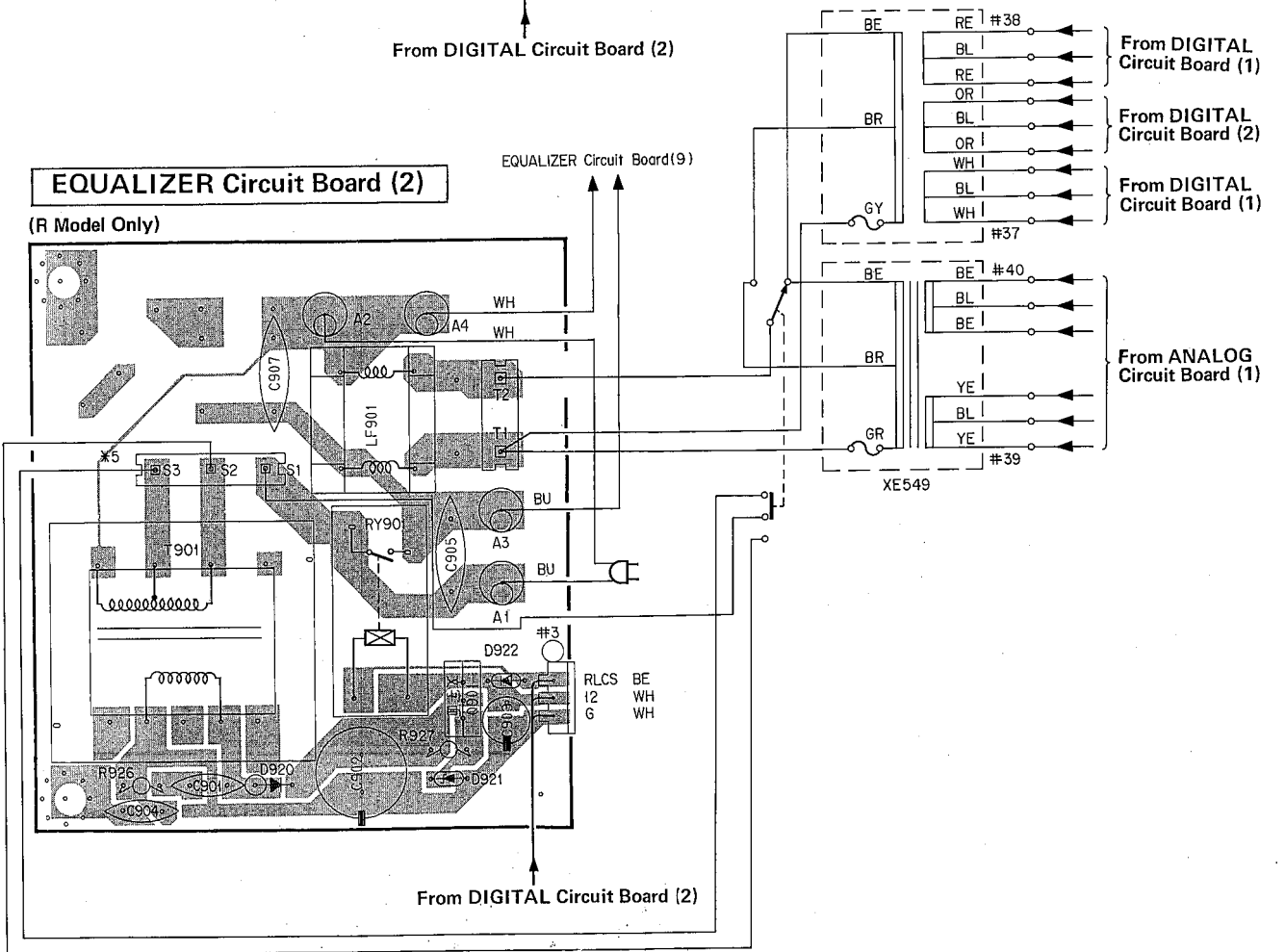
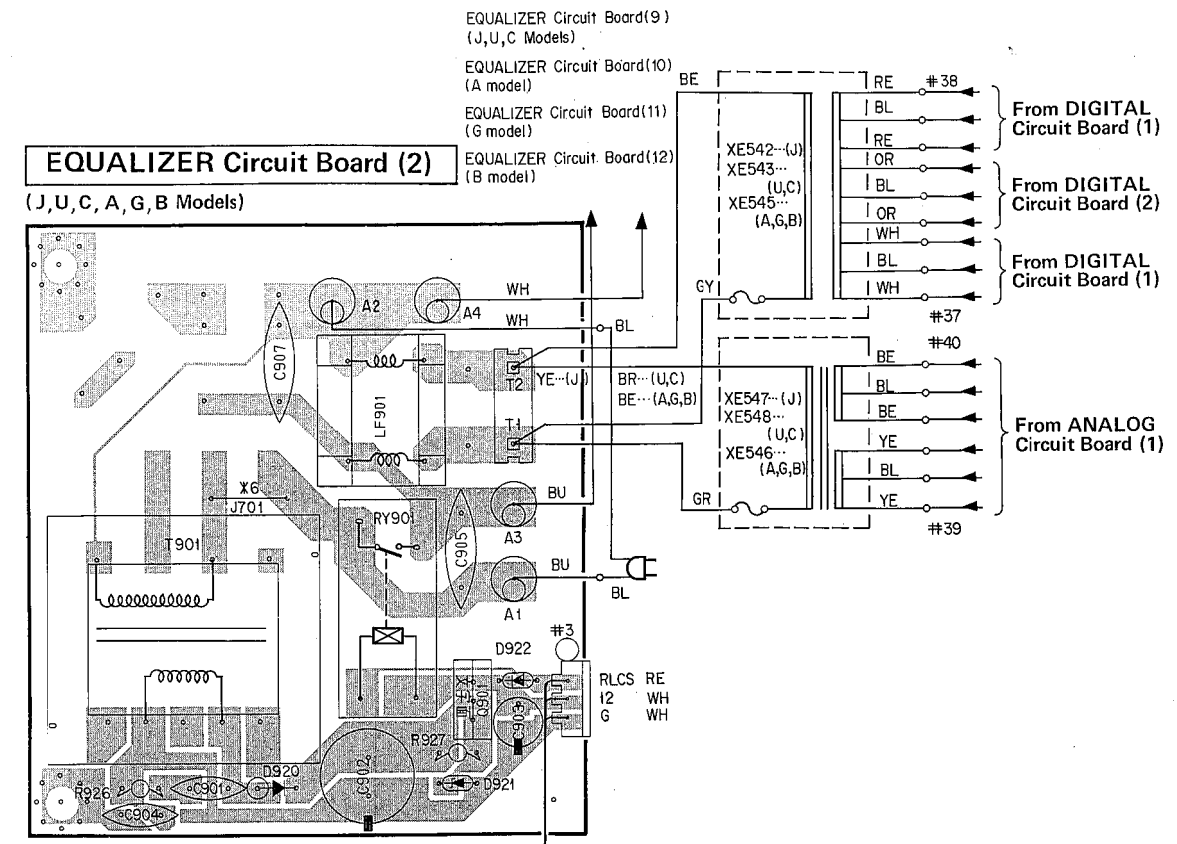


EQUALIZER Circuit Board (12)



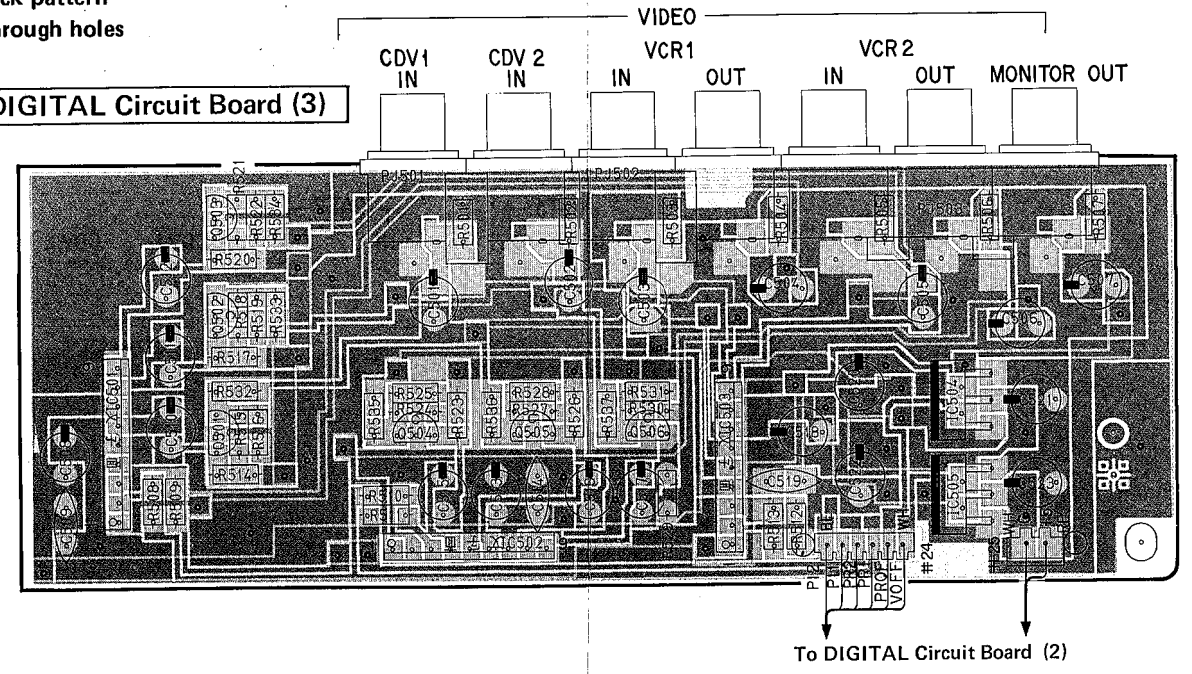
■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

1  
2  
3  
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7

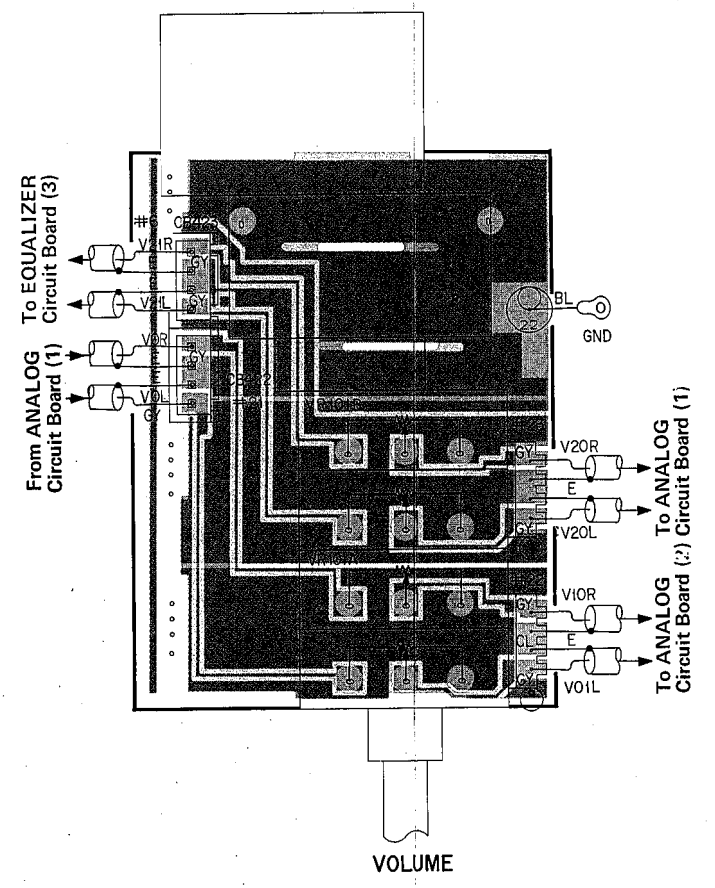


- : Front pattern
- : Back pattern
- : Through holes

**DIGITAL Circuit Board (3)**



**DIGITAL Circuit Board (4)**



A

B

C

D

E

F

G

H

I

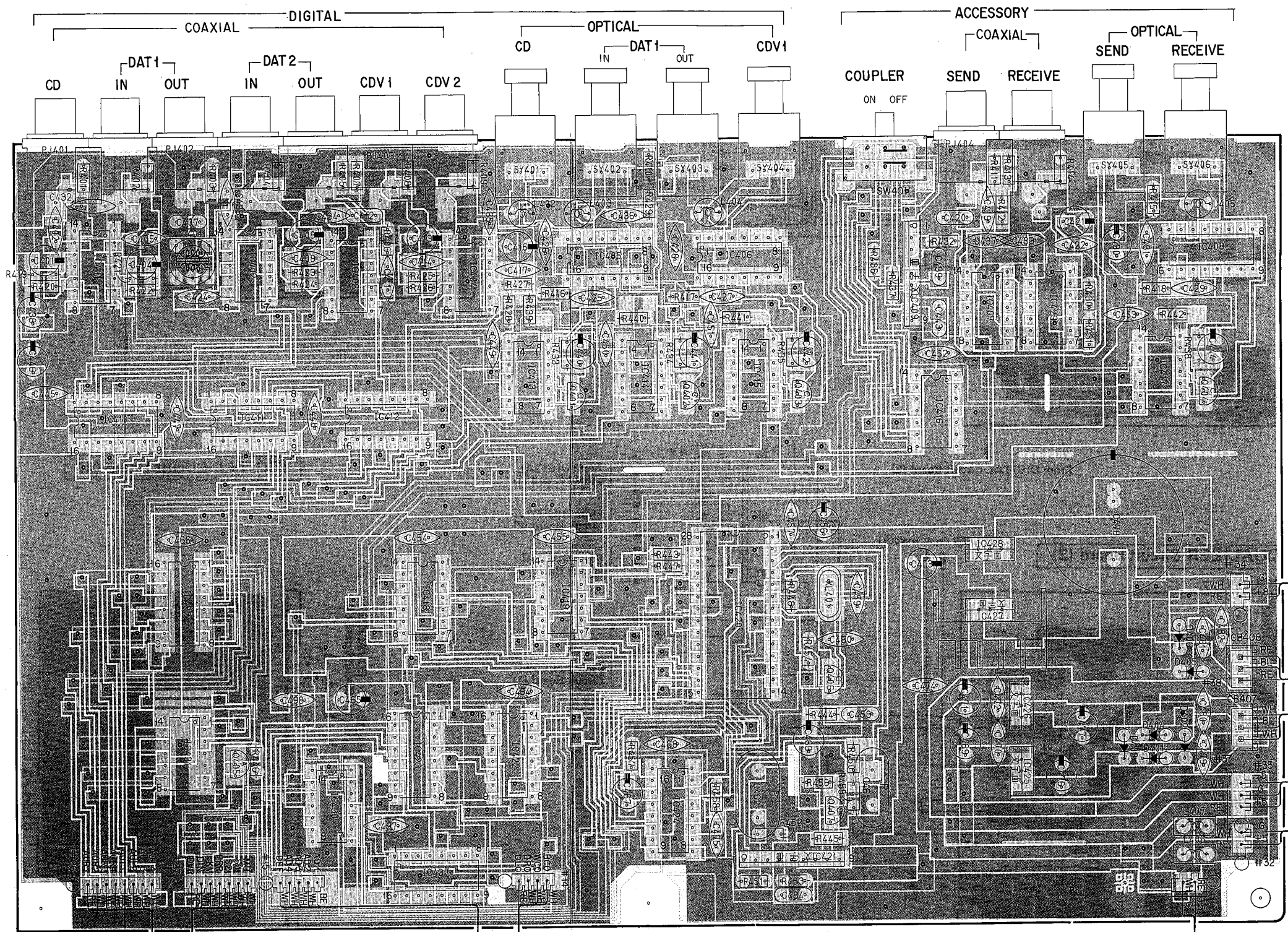
J

CX-1000/U/2000

PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

- : Front pattern
- : Back pattern
- : Through holes

DIGITAL Circuit Board (1)



To DIGITAL Circuit Board (2)

To ANALOG Circuit Board (1)

To DIGITAL Circuit Board (2)

To DIGITAL Circuit Board (2)

To POWER TRANSFORMER

To ANALOG Circuit Board (1)

1

2

3

4

5

6

7

A

B

C

D

E

F

G

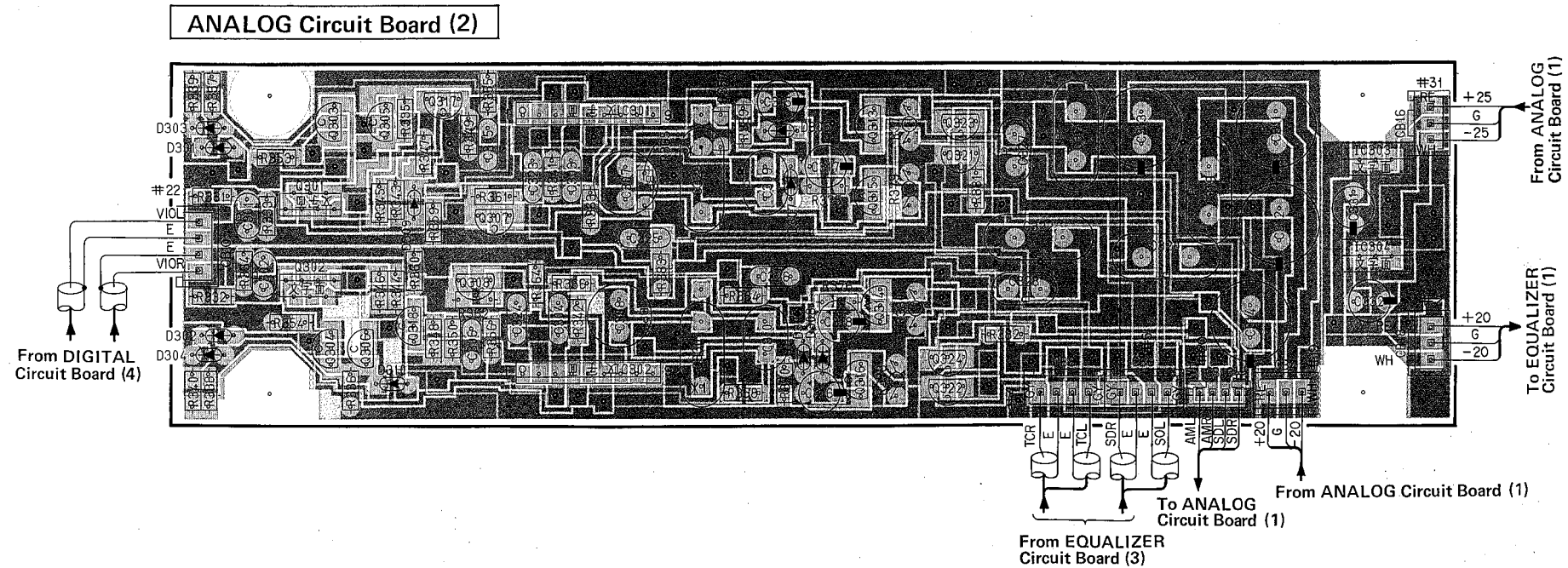
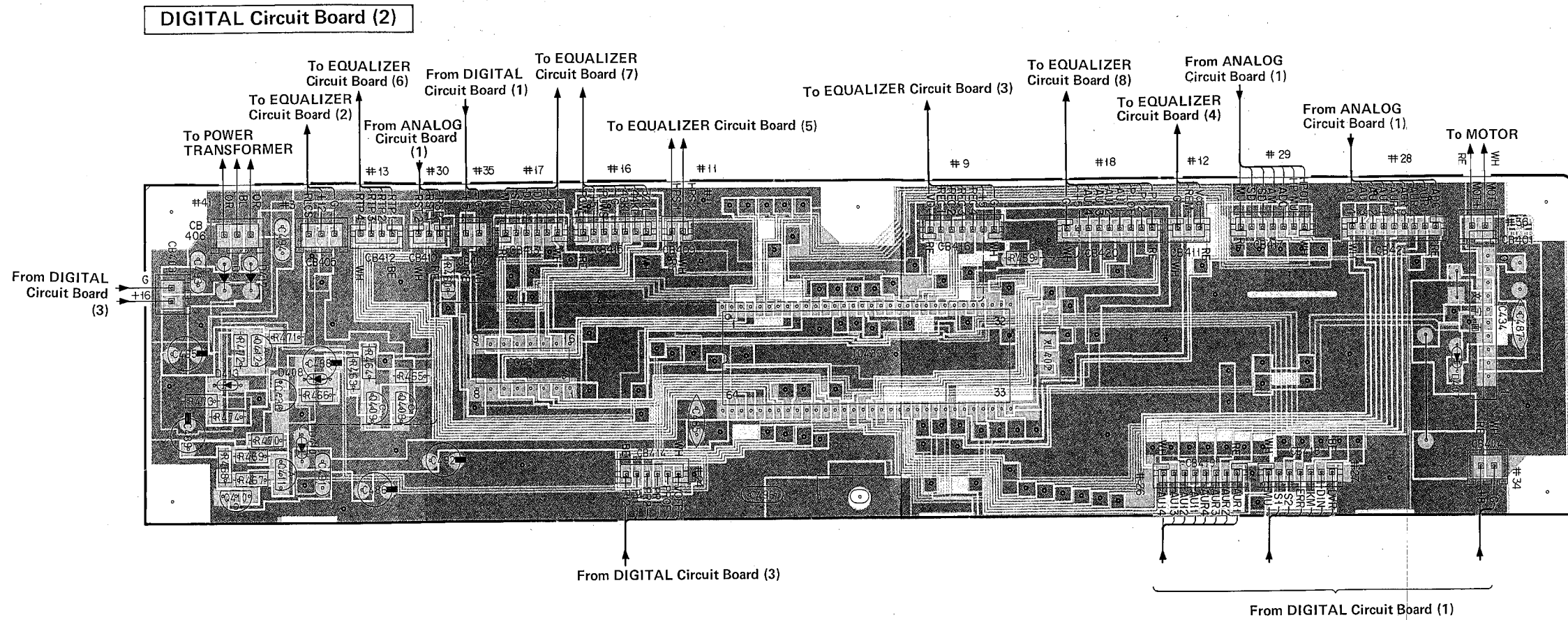
H

I

■ PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

CX-1000/U/2000

- : Front pattern  
 □ : Back pattern  
 ● : Through holes



Note : marked

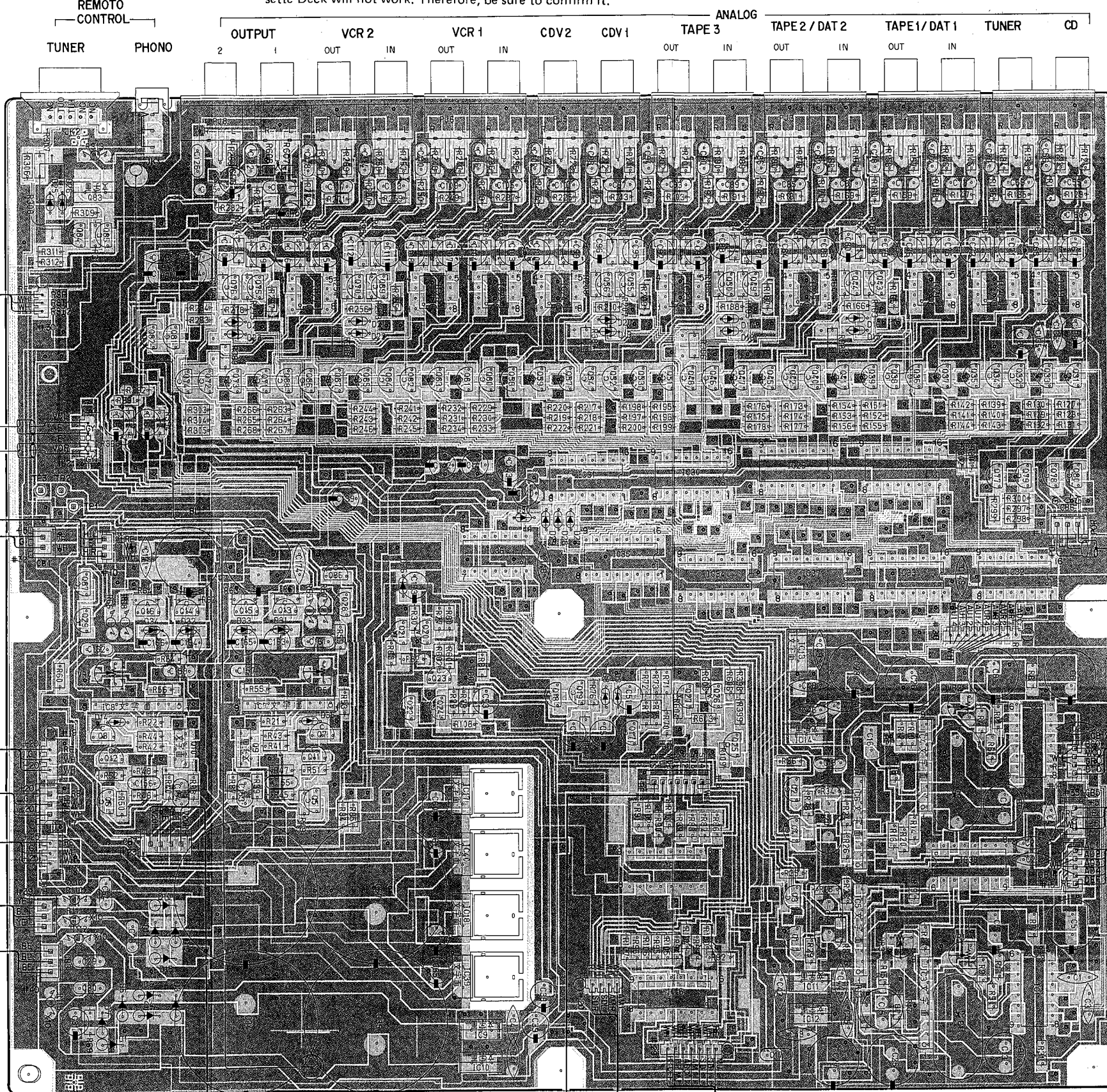
*	J	U,C	R	A	B	G
1	C329, 330	OPEN	⊙0.033/50k			
2	L801, 802	OPEN				15 $\mu$ H
3	R807	SHORT				220
4	R808	SHORT				220
5	S1, S2, S3	x	x	○	x	x
6	J701	○	○	x	○	x
7	FUSE HOLD	x	x	x	x	○
8	F701	OPEN				T2, 5A250V
9	R903	OPEN				2.2k
10	R110 ~ 113	SHORT	2P 4.7	SHORT		

CX-1000/U/2000

PRINTED CIRCUIT BOARD (Pattern Side) (Note) 文字面 : Component Side

ANALOG Circuit Board (1)

Note: Unless connection of Pin Plug Cord for use in sound has been done besides the connection of RS Flat Cable, Tuner and Cassette Deck will not work. Therefore, be sure to confirm it.



- : Front pattern
- : Back pattern
- : Through holes

Note : marked

#	J	U.C	R	A	B	G
1	C329,330	OPEN	⊙0.033/50k			
2	L801,802	OPEN				15 μH
3	R807	SHORT				220
4	R808	SHORT				220
5	S1, S2, S3	×	×	○	×	×
6	J701	○	○	×	○	×
7	FUSE HOLD	×	×	×	×	○
8	F701	OPEN				T2.5A250V
9	R903	OPEN				2.2k
10	R110 ~113	SHORT	2P 4.7	SHORT		

To DIGITAL Circuit Board (2)

To DIGITAL Circuit Board (4)

From EQUALIZER Circuit Board (3)  
From DIGITAL Circuit Board (1)

To EQUALIZER Circuit Board (1)

To DIGITAL Circuit Board (2)

To ANALOG Circuit Board (2)

From EQUALIZER Circuit Board (3)

To ANALOG Circuit Board (2)

To POWER TRANSFORMER

From DIGITAL Circuit Board (1)

From DIGITAL Circuit Board (4)

From EQUALIZER Circuit Board (2)

From ANALOG Circuit Board (2)

To DIGITAL Circuit Board (2)

1

2

3

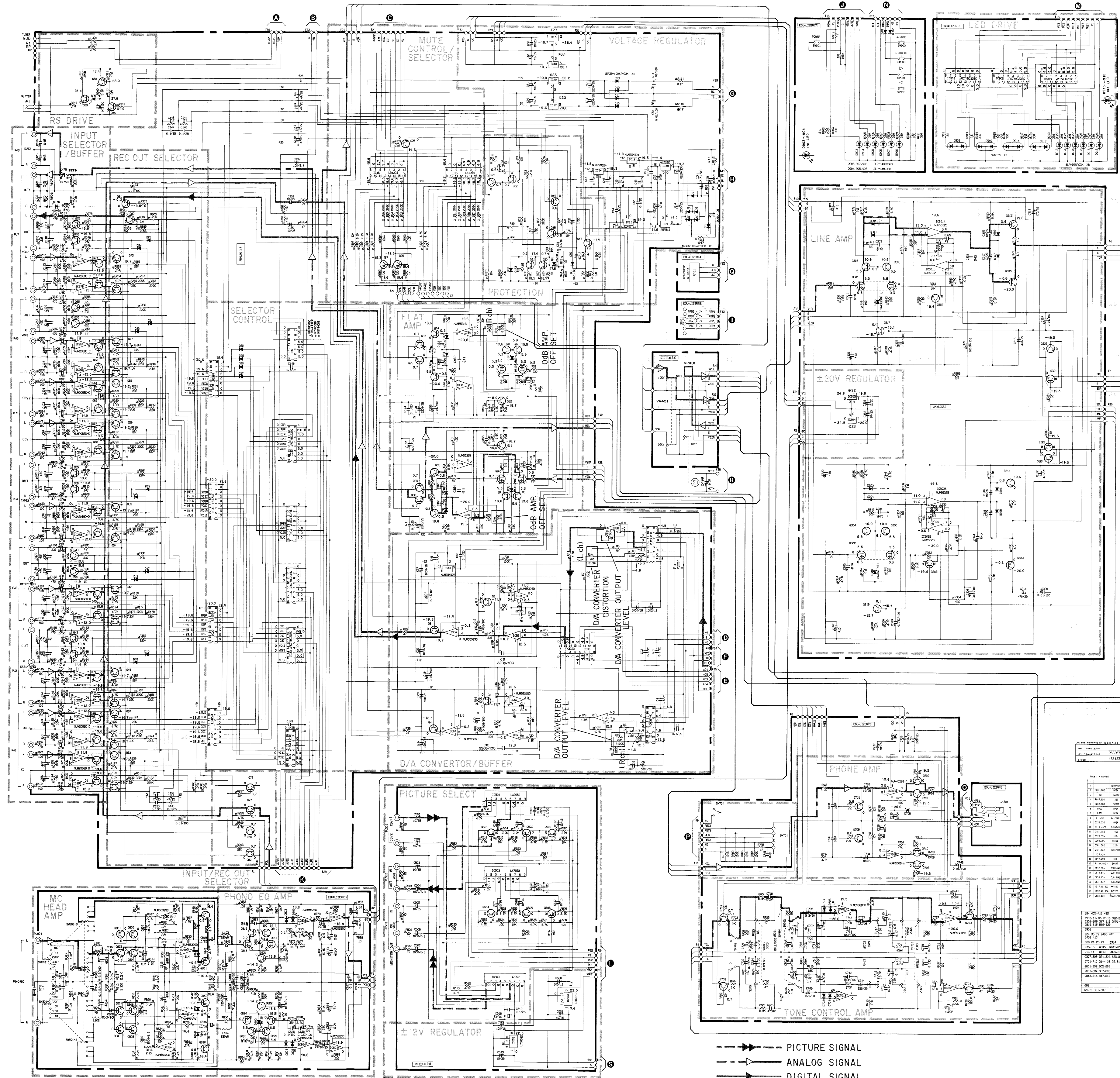
4

5

6

7

■ SCHEMATIC DIAGRAM



2SA1015 (Y) 2SA1115 (E, F) 2SB560 (E, F) 2SC1815 (Y) 2SC2603 (E, F) 2SC2878 (A, B) 2SD438 (E, F) 2SD880 (Y, GR)	2SD880 2SB737 (O, R, S) 2SD786 (O, R, S)	2SD1505	2SK170
2SK389 (GR, BL)	1SS133 MA165 1SR35-100AT-93X MT23.6B MT25.6B MT26.2B MT212B	MT216C MA4062 (N)-L	SLR-34URC3H3 SLR-55URC3H SPR-55
NJM7805A AN7812 AN7912 AN7820 AN7920	NJM78M12A NJM79M12A AN79M05 NJM79M05	μPC78L05J	L780512
NJM2068D-D NJM5532D-D	NJM4556S-A NJM5532S NJM5532SD LA7952 NJM4558S	BA6209	YM3623B
TC74HC00P μPD74HC00C M74HC00P MN74HC00 TC74HC02P μPD74HC02P M74HC02 MN74HC02	μPD74HC04C TC74HC08P μPD74HC08P M74HC08P MN74HC08	LB1294 PCM56P-K YM3023 YM3414 YM6013 μPD74HC157C μPD74HC123AC μPD74HC151C	TC74HC175P MC74HC175N μPD74HC238C
			LC6554H-3709

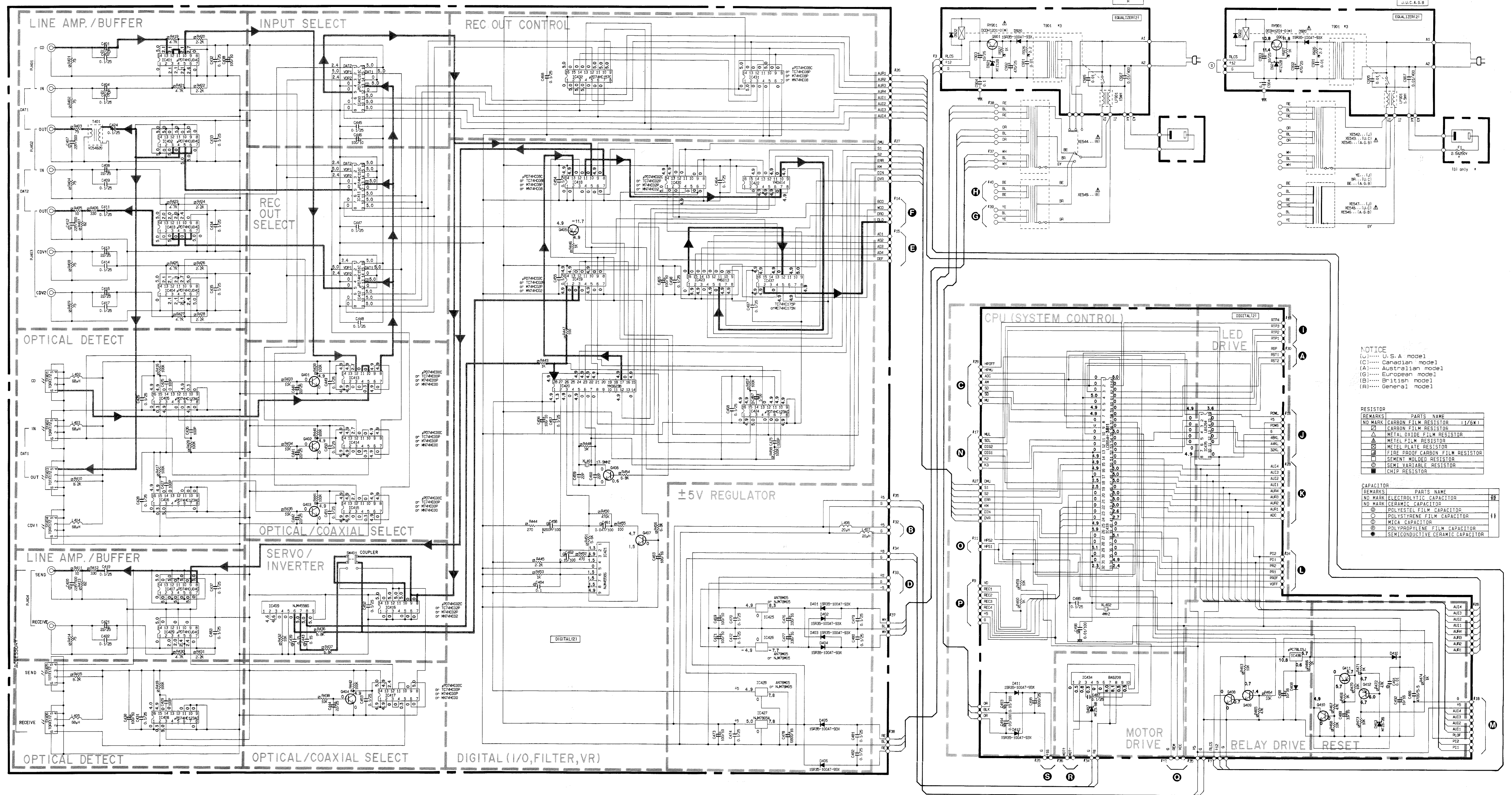
RESISTOR VALUE LIST

RES.	VALUE	QTY	RES.	VALUE	QTY
1	100K	1	101	10K	1
2	10K	1	102	1K	1
3	1K	1	103	100Ω	1
4	100Ω	1	104	10Ω	1
5	10Ω	1	105	1Ω	1
6	1Ω	1	106	0.1Ω	1
7	0.1Ω	1	107	0.01Ω	1
8	0.01Ω	1	108	0.001Ω	1
9	0.001Ω	1	109	0.0001Ω	1
10	0.0001Ω	1	110	0.00001Ω	1
11	0.00001Ω	1	111	0.000001Ω	1
12	0.000001Ω	1	112	0.0000001Ω	1
13	0.0000001Ω	1	113	0.00000001Ω	1
14	0.00000001Ω	1	114	0.000000001Ω	1
15	0.000000001Ω	1	115	0.0000000001Ω	1
16	0.0000000001Ω	1	116	0.00000000001Ω	1
17	0.00000000001Ω	1	117	0.000000000001Ω	1
18	0.000000000001Ω	1	118	0.0000000000001Ω	1
19	0.0000000000001Ω	1	119	0.00000000000001Ω	1
20	0.00000000000001Ω	1	120	0.000000000000001Ω	1

- - - - - PICTURE SIGNAL  
 - - - - - ANALOG SIGNAL  
 - - - - - DIGITAL SIGNAL

**CAUTION**

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- \* All voltages are measured with a 10MΩ/V DC electric volt meter.
- \* Schematic diagram is subject to change without notice.



**NOTICE**  
 (U)..... U.S.A model  
 (C)..... Canadian model  
 (A)..... Australian model  
 (G)..... European model  
 (B)..... British model  
 (R)..... General model

**RESISTOR**

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/2W)
□	CARBON FILM RESISTOR
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
△	METAL DRUM RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	SEMI MOUNTED RESISTOR
□	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

**CAPACITOR**

REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
NO MARK	CERAMIC CAPACITOR
○	POLYESTER FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
○	MICA CAPACITOR
○	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

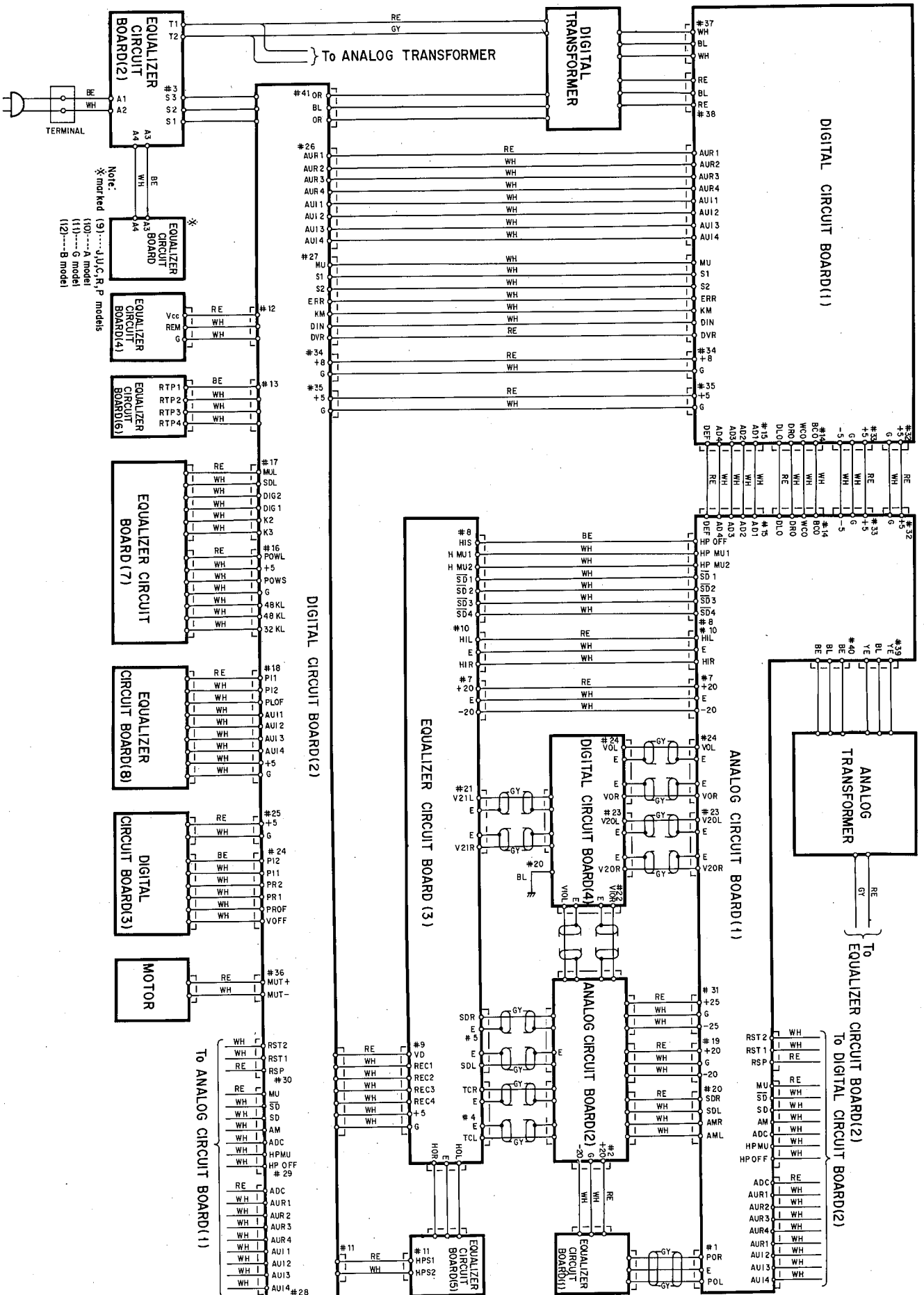
2SA1015 (Y) 2SA1115 (E, F) 2SB560 (E, F) 2C1815 (Y) 2SC2603 (E, F) 2SC2878 (A, B) 2SD438 (E, F) 2SD880 (Y, GR)	2SD880 2SB737 (Q, R, S) 2SD786 (Q, R, S)	2SD1505	2SK170	2SK389 (GR, BL)	1SS133 MA165 1SR35-100AT-93X MT23. 6B MT25. 6B MT26. 2B MT212B	MTZ16C MA4062 (NI-L)	SLR-34URC3H3 SLR-34MC3H3 SLR-55URC3H SPR-55	NJM7805A AN7812 AN7912 AN7820 AN7920	NJM78M12A NJM79M12A AN79M05 NJM79M05	μPC78L05J
L780512	NJM2068D-D NJM532D-D	NJM4556S-A NJM532S LA7952 NJM4558S	BA6209	TC74HC00P μPD74HC04C TC74HC08P M74HC00 MN74HC00 TC74HC02P μPD74HC02P M74HC02P MN74HC02	LB1294 PCM56P-K YM3023 YM3414 YM6013 μPD74HC157C μPD74HC123AC μPD74HC151C	TC74HC175P MC74HC175N μPD74HC238C	YM3623B	LC6554H-3709		

**CAUTION**

- Components having special characteristics are marked **▲** and must be replaced with parts having specifications equal to those originally installed.
- All voltages are measured with a 10MΩ/V DC electric volt meter.
- Schematic diagram is subject to change without notice.

WIRING


CX-1000/U/2000



# PARTS LIST

## ELECTRICAL PARTS

■ WARNING

- Components having special characteristics are marked  and must be replaced with parts having specifications equal to those originally installed.
- Carbon resistors 1/6 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to the last Page.

CX-1000/U/2000

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	NA 09 99 80	Analog Circuit Board	アナログシート			J	
※	NA 09 87 80	//	//			U, C	
※	NA 09 87 90	//	//			G	
※	VG 16 41 00	//	//			R, A, B,	
	FF 11 21 00	Polystyrene Film Cap.	100pF	スチコン	C161, 162	J	
	FU 35 12 20	Mica Cap.	22pF 500V	FEマイカコン	//	U, C, R, A, B, G	
	FF 11 21 00	Polystyrene Film Cap.	100pF	スチコン	C323, 324	J	
	FU 35 14 70	Mica Cap.	47pF 500V	FEマイカコン	//	U, C, R, A, B, G	
※	VE 23 98 00	Polypropylene Film Cap.	220pF 100V	ポリプロコン	C301, 302	U, C, R, A, B, G	
※	FF 11 22 20	Polystyrene Film Cap.	220pF 125V	スチコン	//	J	
	UT 45 31 50	Polypropylene Film Cap.	1500pF 100V	ポリプロコン	C303, 304	U, C, R, A, B, G	
※	FF 11 31 50	Polystyrene Film Cap.	1500pF 125V	スチコン	//	J	
	FZ 00 58 80	Ceramic Cap.	0.1μF 25V	積層セラコン	C1~4, 21, 22, 40~49, 135, 136 146~149, 171, 174		
	FA 15 44 70	Mylar Cap.	0.047μF 50V	マイラーコン	C155, 156		
	UT 45 22 20	Polypropylene Film Cap.	220pF 100V	ポリプロコン	C121, 122, 125, 126	U, C, R, A, B, G	
	UT 45 21 00	//	100pF 100V	//	//	J	
	UT 45 21 00	//	100pF 100V	//	C55, 56, 69, 70, 73, 74, 77, 78, 81, 82, 85, 86, 89, 90, 93, 94, 97, 98, 101, 102, 105, 106, 108, 110, 113, 114, 117, 118	J, U, C, R, A, B	
	UT 45 22 20	//	220pF 100V	//	//	G	
	UT 45 31 00	//	1000pF 100V	//	C325, 325		
	UT 45 41 00	//	0.01μF 100V	//	C17, 18, 23, 29, 30, 54, 157, 158, 168, 172, 327, 328		
	UT 45 44 70	//	0.047μF 100V	//	C305, 306		
	UT 45 46 80	//	0.068μF 100V	//	C19, 20		
※	VF 96 74 00	//	0.068μF 100V	//	C319~322	J	
	UT 46 51 00	//	0.1μF 100V	//	//	U, C, R, A, B, G	
※	VF 85 76 00	//	0.033μF 50V	//	C329, 330	U, C, R, A, B, G	
※	VF 85 77 00	//	0.1μF 50V	//	C11, 12	U, C, R, A, B, G	
※	VF 95 14 00	//	0.1μF 100V	//	//	J	
※	VE 23 98 00	//	220pF 100V	//	C153, 154		
※	VE 24 04 00	//	0.1μF 100V	//	C309, 310	U, C, R, A, B, G	
※	VF 95 14 00	//	0.1μF 100V	//	//	J	
※	VE 23 98 00	//	220pF 100V	//	C9, 10	J	
	UT 45 22 20	//	220pF 100V	//	//	U, C, R, A, B, G	
	VE 01 65 00	Electrolytic Cap.	100μF 6.3V	ケミコン	C139		
	VE 01 83 00	//	10μF 25V	//	C60, 61, 64, 65, 150, 151 163~166, 315~318, 331, 332		
	VE 01 86 00	//	47μF 25V	//	C137, 138, 140~145		
	VE 01 98 00	//	1μF 50V	//	C38, 39, 67, 68, 71, 72, 75, 83, 84, 91, 92, 99, 100, 103, 104, 107, 108, 115, 116		
	VE 02 02 00	//	10μF 50V	//	C79, 80, 87, 88, 95, 96, 111, 112, 119, 120		
※	VF 88 41 00	//	22μF 25V	B P コ ン	C13~16, 307, 308		
※	VF 24 84 00	//	470μF 25V	ケミコン	C311~314		
※	VF 24 87 00	//	1000μF 16V	//	C5~8, 25~28		
※	VF 81 72 00	//	2200μF 25V	//	C167, 170		
※	VF 16 10 00	//	6200μF 35V	//	C24, 34, 35, 37		
	UJ 24 63 30	//	3.3μF 25V	//	C31		
	UJ 13 74 70	//	47μF 16V	//	C50, 51		
	UH 14 71 00	//	10μF 25V	//	C173		
	UJ 16 61 00	//	1μF 50V	//	C52, 53		
	HL 33 46 80	Metal Oxide Film Resistor	68Ω 3W	酸金抵抗	R308		
	HL 32 34 70	//	4.7Ω 2W	//	R110~113	U, C	
	HV 45 34 70	Flame Ploof Carbon Resistor	4.7Ω 1/4W	不燃化カーボン抵抗	R65~68, 110~113, 313, 377~380		
	VA 78 84 00	Pre-Set Potentiometer	B100KΩ	半固定抵抗	VR1, 2		

※New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	VB 86 19 00	Pre-set Potentiometer	B100KΩ	半 固 定 抵 抗	VR4, 5		
	VB 86 15 00	//	B10KΩ	//	VR3		
	iA 10 15 21	Transistor	2SA1015(Y)	ト ラ ン ジ ス タ ー	Q20, 21, 26, 27		
	iA 11 15 10	//	2SA1115(E, F)	//	Q84		
	iB 05 60 20	//	2SB560(E, F)	//	Q15, 16, 315, 316		
	iC 18 15 20	//	2SC1815(Y)	//	Q5~8, 11, 12, 17, 18, 22, 23, 25, 303~306, 317, 318		
	iC 26 03 10	//	2SC2603(E, F)	//	Q19, 24, 85		
	iC 28 78 20	//	2SC2878(A, B)	//	Q1~4, 28, 29, 31~82, 86, 87, 307, 308, 321~324		
	iD 04 38 10	//	2SD438(E, F)	//	Q13, 14, 313, 314		
	iD 08 80 00	//	2SD880	//	Q83 } inter-		
	iD 08 80 10	//	2SD880(Y, GR)	//	} changeable		
	iE 10 45 00	Dual FET	2SK389(GR, BL)	デュアル F E T	Q9, 10, 301, 302		
	iF 00 34 50	Diode	1SS133	ダ イ オ ー ド	D15~25, 27~34, 36, 301~308		
	iF 00 84 80	//	1SR35-100A	//	D1, 3~7, 10~13		
	iF 00 62 90	Zener Diode	MTZ5.6B	ツェナーダイオード	D8, 9		
	iF 00 86 40	//	MTZ16C	//	D26		
※	VF 38 94 00	//	MA4062(N)-L	//	D14, 35, 309, 310		
	iG 08 34 00	IC	AN7812	I C	IC9		
※	iG 15 98 00	//	AN7912	//	IC10		
	iR 02 38 20	//	μPD74HC238C	//	IC32~35, 37		
	iR 00 08 00	//	TC74HC08P	//	IC36 } inter-		
	iR 00 08 20	//	μPD74HC08C	//	} changeable		
	iR 00 08 90	//	MN74HC08	//	//		
※	XA 98 70 01	//	NJM2068D-D	//	IC19~27		
	XA 42 60 01	//	NJM5532S	//	IC7, 8, 301, 302		
	XC 63 20 01	//	NJM5532S-D	//	IC3~6		
	XA 54 90 01	//	LB1294	//	IC15, 16, 28~31		
	XB 24 90 01	//	NJM78M12A	//	IC11, 13		
	XB 25 00 01	//	NJM79M12A	//	IC12, 14		
	XB 63 80 01	//	PCM56P-K	//	IC1, 2		
	XB 70 30 01	//	YM3023	//	IC38		
※	XD 90 80 01	//	AN7820	//	IC17, 18, 303	J, R, A, B, G	
※	XF 22 10 01	//	AN7818	//	//	U, C	
※	XD 90 90 01	//	AN7920	//	IC39, 40, 304	J, R, A, B, G	
※	XF 22 20 01	//	AN7918	//	//	U, C	
	VE 33 29 00	Pin Jack	2P	ピ ン ジ ャ ッ ク	PJ8		
※	VE 33 30 00	//	4P	//	PJ1~6		
	VE 33 36 00	//	6P	//	PJ7		
	LB 50 07 10	ST Connector Socket	5P	ST コネクターソケット	JK2		
	LB 10 07 30	Mini Jack		ミニジャック	JK1		
	LB 91 80 20	Base Pin	2P i-Type	XH ベースピン	CB1		
	LB 91 80 30	//	3P i-Type	//	CB2~6, 16~18		
	LB 91 80 40	//	4P i-Type	//	CB7~10		
	VD 00 47 00	//	4P	PH ベースピン	CB12, 13		
	VD 00 48 00	//	5P	//	CB14		
	VD 00 46 00	//	3P	//	CB11		
	VD 00 50 00	//	7P	//	CB15		
	LA 00 41 20	Test Point Pin		テストポイントピン			

※New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名		Remarks	Common Model	Markets	ランク
	BA 08 40 00	Heat Sink	# 8400	放 熱 板				
	Ei 33 00 86	Binding Head Tapping Screw	3.0×8 FCRM3-BI	バインドタッピングネジ	PACK			
※	NA 09 88 00	<b>Digital Circuit Board</b>		デ ジ タ ル シ ー ト			J,U,C,R,A,B	
※	NA 09 88 10	//		//			G	
	FG 21 21 00	Ceramic Cap.	100pF 50V	セ ラ コ ン	C425, 427, 429, 436, 475			
	FG 21 12 20	//	22pF 50V	//	C459, 460			
	FU 35 12 20	Mica Cap.	22pF 500V	FE マ イ カ コ ン	C407, 412, 420			
	FZ 00 58 80	Ceramic Cap.	0.1μF 25V	積 層 セ ラ コ ン	C402, 405, 409, 411, 414, 417, 419, 422, 424, 426, 428, 431~435, 437, 445, 447~455, 457, 464, 466, 468, 470, 472, 474, 479~483, 485, 487, 497, 498, 509, 514, 519			
	FA 15 41 00	Mylar Cap.	0.01μF 50V	マ イ ラ ー コ ン	C491			
	FA 15 51 00	//	0.1μF 50V	//	C484			
	FA 15 51 50	//	0.15μF 50V	//	C439, 443			
	UJ 13 71 00	Electrolytic Cap.	10μF 16V	ケ ミ コ ン	C488, 492, 510~512, 515~517			
	UJ 13 73 30	//	33μF 16V	//	C489, 508, 513, 518			
	UJ 13 81 00	//	100μF 16V	//	C520, 522			
	UJ 15 71 00	//	10μF 35V	//	C501~503, 505, 521, 523			
	UJ 16 61 00	//	1μF 50V	//	C467			
	UJ 14 91 00	//	1000μF 25V	//	C495			
	UJ 11 91 00	//	1000μF 6.3V	//	C504, 506, 507			
	UT 45 44 70	Polypropylene Film Cap.	0.047μF 100V	ポ リ プ ロ コ ン	C461			
※	VF 07 11 00	//	0.15μF 100V	//	C462			
	UT 65 38 20	//	8200pF 100V	//	C458			
	UT 65 41 00	//	0.01μF 100V	//	C493, 494, 496			
※	VE 01 72 00	Electrolytic Cap.	100μF 10V	ケ ミ コ ン	C430, 438, 446, 456, 465, 469, 471, 473			
	VE 01 79 00	//	100μF 16V	//	C463			
	VE 01 81 00	//	330μF 16V	//	C476, 477			
	VE 01 84 00	//	22μF 25V	//	C401, 404, 408, 413, 416, 421, 440~442, 444			
	VB 17 01 00	//	4700μF 5.5V	//	C486			
※	VF 88 39 00	//	6800μF 16V	//	C478			
	FZ 00 76 60	//	1μF 50V	BP ケ ミ コ ン	C499			
	GE 90 19 70	Coil	68μH	コ イ ル	L402~405			
	VB 97 11 00	//	20μH	//	L406~407			
	VB 75 91 00	Ceramic Resonator	4MHz	セ ラ ミ ッ ク 発 振 子	XL402			
	VD 61 38 00	Quart Cristal Unit	17.9MHz	水 晶 発 振 子	XL401			
	VC 54 82 00	Coil		バ ル ス ト ラ ン ス	T401			
※	VF 28 29 00	Potentiometer With Motor	Y10K×4	モ ー タ ー 付 可 変 抵 抗 器	VR401			
	iA 10 15 21	Transistor	2SA1015(Y)	ト ラ ン ジ ス タ ー	Q501~506			
	iA 11 15 10	//	2SA1115(E, F)	//	Q405, 411, 412			
	iC 18 15 20	//	2SC1815(Y)	//	Q401~404			
	iC 26 03 10	//	2SC2603(E, F)	//	Q406~410			
	iF 00 34 50	Diode	ISS133	ダ イ オ ー ド	D408, 410			
	iF 00 84 80	//	ISR35-100A	//	D401~406, 411, 412			
	iF 00 62 90	Zener Diode	MTZ5.6B	ツ ェ ナ ー ダイ オ ー ド	D407			

※New Parts (新親部品)

Ref. No.	Part No.	Description	部 品 名		Remarks	Common Model	Markets	ランク
	i F 01 07 40	Zener Diode	MTZ6.2B	ツェナーダイオード	D413			
	XC 34 90 01	IC	μPC78L05J	I C	IC436			
	i G 07 56 00	//	NJM7805A-5V	//	IC425, 428			
	i G 07 68 00	//	NJM4558S	//	IC409, 421			
	i G 10 11 00	//	BA6209	//	IC434			
	i G 14 22 20	//	μPD74HCU04C	//	IC401~404, 407, 429			
	i G 14 76 00	//	NJM7805A-5V	//	IC427			
	i R 00 00 00	//	TC74HC00P	//	IC413~415, 417 } inter-changeable			
	i R 00 00 80	//	M74HC00P	//				
	i R 01 75 00	//	TC74HC175P	//	IC437			
	i R 00 02 00	//	TC74HC02P	//	IC416, 419, 430 } inter-changeable			
	i R 00 02 80	//	M74HC02P	//				
	i R 00 08 00	//	TC74HC08P	//	IC418, 431 } inter-changeable			
	i R 00 08 20	//	μPD74HC08C	//				
	i R 00 08 90	//	MN74HC08	//				
	i R 01 23 20	//	μPD74HC123AC	//	IC405, 406, 408, 424			
	i R 01 51 20	//	μPD74HC151C	//	IC410~412			
	XB 11 60 01	//	NJM79M05-5V	//	IC462			
	XA 54 90 01	//	LB1294	//	IC435			
	XD 49 30 01	//	L780S12	//	IC504, 505			
※	XE 55 20 03	//	LC6554H-3811	//	IC433			
	XD 52 40 01	//	LA7952	//	IC501~503			
	XD 22 20 01	//	YM3623B	//	IC420			
	XD 71 20 01	//	YM3414	//	IC422			
	XD 71 10 01	//	YM6013	//	IC423			
※	i R 01 57 20	//	μPD74HC157C	//	IC432			
	VD 98 21 00	Transmission Module	TOTX172	送信モジュール	SY403, 405			
	VD 98 22 00	Receive Module	TORX172	受信モジュール	SY401, 402, 404, 406			
※	VF 28 30 00	Slide Switch		スライドスイッチ	SW401			
	VE 33 26 00	Pin Jack	2P	ピンジャック	RJ501, 502			
	VE 33 27 00	//	2P	//	PJ401, 402, 404			
※	VE 84 98 00	//	3P	//	PJ503			
※	VE 84 97 00	//	3P	//	PJ403			
	LB 91 80 20	Base Pin	2P i-Type	XH ベースピン	CB401~404			
	LB 91 80 30	//	3P i-Type	//	CB405~408			
	LB 91 80 40	//	4P i-Type	//	CB422, 423			
	VD 00 45 00	//	2P	PH ベースピン	CB409			
	VD 00 46 00	//	3P	//	CB410, 411			
	VD 00 47 00	//	4P	//	CB412			
	VD 00 49 00	//	6P	//	CB413, 414			
	VD 00 50 00	//	7P	//	CB415~418			
	VD 00 51 00	//	8P	//	CB419			
	VD 00 52 00	//	9P	//	CB420, 421			
※	VF 81 73 00	Heat Sink		放 熱 板				
	BB 06 95 10	Land Metal Fitting		ラ ン ド 金 具				
	ED 33 00 86	Binding Head Screw	3.0×8 FCRM3-B1	バ イ ン ド 小 ネ ジ	PACK			

※New Parts (新規部品)

CX-1000/U/2000

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	NA:09:88:70	Equalizer Circuit Board	イコライザーシート			J	
※	NA:09:88:20	//	//			U,C	
※	NA:09:88:30	//	//			R	
※	NA:09:88:40	//	//			A	
※	NA:09:88:50	//	//			B	
※	NA:09:88:60	//	//			G	
	Fi 41 41 00	Ceramic Cap.	0.01 $\mu$ F VA-1	セラコン	C905 } inter- // } changeable		
	Fi 50 41 00	//	0.01 $\mu$ F DNS	//			
	FG 24 41 00	//	0.01 $\mu$ F 50V	//	C741, 901		
	VE 17 92 00	//	0.01 $\mu$ F 400V	//	C907		
	FZ 00 58 80	//	0.1 $\mu$ F 25V	積層セラコン	C839, 904		
	FA 15 31 00	Mylar Cap.	1000pF 50V	マイラーコン	C729, 730		
	FA 15 33 30	//	3300pF 50V	//	C823, 824	U,C,R,A,B,G	
	FC 44 33 30	//	3300pF 50V	//	//	J	
	FA 15 34 70	//	4700pF 50V	//	C725, 726		
	FA 15 41 20	//	0.012 $\mu$ F 50V	//	C813, 814	U,C,R,A,B,G	
	FC 36 41 20	//	0.012 $\mu$ F 50V	//	//	J	
	FA 15 41 50	//	0.015 $\mu$ F 50V	//	C833, 834	U,C,R,A,B,G	
※	FC 44 41 50	//	0.015 $\mu$ F 50V	//	//	J	
	FA 15 43 30	//	0.033 $\mu$ F 50V	//	C719, 720		
	FA 15 44 70	//	0.047 $\mu$ F 50V	//	C831, 832	U,C,R,A,B,G	
	FC 34 44 70	//	0.047 $\mu$ F 50V	//	//	J	
	FA 15 51 00	//	0.1 $\mu$ F 50V	//	C703, 704, 707, 708, 837, 838		
	FA 15 48 20	//	0.082 $\mu$ F 50V	//	C715, 716		
	UT 46 42 70	Polypropylene Film Cap.	0.027 $\mu$ F 100V	ポリプロコン	C827, 828		
	UT 46 51 00	//	0.1 $\mu$ F 100V	//	C825, 826		
	UT 45 21 00	//	100pF 100V	//	C701, 702, 711, 712, 731, 732, 801, 802		
	UT 45 22 20	//	220pF 100V	//	C817, 818		
	UT 45 41 00	//	0.01 $\mu$ F 100V	//	C742		
	UT 45 41 00	//	0.01 $\mu$ F 100V	//	C805, 806	J,U,C,R,A,B	
	UT 45 34 70	//	4700 $\mu$ F 100V	//	//	G	
	UT 65 41 80	//	0.018 $\mu$ F 100V	//	C803, 804		
	UJ 14 71 00	Electrolytic Cap.	10 $\mu$ F 25V	ケミコン	C733~738, 903		
	UJ 14 81 00	//	100 $\mu$ F 25V	//	C819~822		
	UJ 14 82 20	//	220 $\mu$ F 25V	//	C713, 714		
	UJ 16 53 30	//	0.33 $\mu$ F 50V	//	C721, 722		
	UJ 16 54 70	//	0.47 $\mu$ F 50V	//	C717, 718		
	UJ 16 62 20	//	2.2 $\mu$ F 50V	//	C705, 706		
	UJ 46 63 30	//	3.3 $\mu$ F 50V	//	C723, 724		
	UJ 14 84 70	//	470 $\mu$ F 25V	//	C902		
	UM 02 91 00	//	1000 $\mu$ F 6.3V	オーディオケミコン	C809~812, 829, 830		
	VE 74 13 00	//	1000 $\mu$ F 25V	ケミコン	C739, 740, 835, 836		
	VE 01 98 00	//	1 $\mu$ F 50V	//	C727, 728		
	VE 01 83 00	//	10 $\mu$ F 25V	//	C815, 816	J	
	VE 39 42 00	//	10 $\mu$ F 25V	//	//	U,C,R,A,B,G	
	VE 39 26 00	//	470 $\mu$ F 6.3V	//	C807, 808		
	VE 39 42 00	//	10 $\mu$ F 25V	//	C815, 816, 841, 842		
	VE 01 83 00	//	10 $\mu$ F 25V	//	C745, 746		
	VE 01 82 00	//	4.7 $\mu$ F 25V	//	C709, 710		
※	GE 90 18 60	Coil	47mH	固定コイル	L701, 702		
	VF 54 11 00	//	15 $\mu$ H	コイル	L801, 802		
	VB 05 69 00	//	220 $\mu$ H	//	L803, 804		

※New Parts (新規部品)

Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
	XA 75 20 01	Power Transformer	サブトランス	T901		J	
	XA 75 40 01	//	//	//		U, C	
※	XE 58 60 02	//	//	//		R	
※	XE 58 50 01	//	//	//		G	
	XE 93 80 01	//	//	//		A, B	
	VA 77 84 00	Line Filter	ACラインフィルター	LF901			
	HL 32 46 80	Metal Oxide Film Resistor	68Ω 2W 酸金抵抗	R757, 758			
※	HU 57 31 50	Metal Film Resistor	1.5Ω SNI4K2E 金属被膜抵抗	R831, 832			
	HU 57 41 80	//	18Ω SNI4K2E //	R833, 836			
	HV 45 32 20	Flame Proof Carbon Resistor	2.2Ω 不燃化カーボン抵抗	R926			
	HV 45 34 70	//	4.7Ω //	R843~846			
	HV 45 41 00	//	10Ω //	R887, 888			
	HV 45 51 00	//	100Ω //	R853~856			
	HV 45 61 00	//	1KΩ //	R927			
	HV 45 62 20	//	2.2KΩ //	R813~816			
	VE 85 46 00	Rotary Potentiometer	30KΩ MN	ロータリー VR	VR701		
※	VF 33 80 00	//	18KΩ 特 2連	//	VR702		
	VA 98 48 00	//	20KΩ 特 2連	//	VR703, 704		
※	VF 99 09 00	//	30KΩ 特 2連	//	VR705		
	iC 18 15 20	Transistor	2SC1815(Y)	トランジスター	Q815, 816, 819~822		
	iC 28 78 20	//	2SC2878(A, B)	//	Q701~710		
	iD 15 05 00	//	2SD1505	//	Q901		
	iE 10 24 80	F E T	2SK170 (GR1,2,3 BL1,2,3,4)	F E T	Q813, 814, 817, 818		
	iB 07 37 00	Transistor	2SB737(Q, R, S)	トランジスター	Q801, 802, 805, 806		
	iD 07 86 00	//	2SD786(Q, R, S)	//	Q803, 804, 807, 808		
	iD 04 38 10	//	2SD438(E, F)	//	Q809, 810		
	iB 05 60 10	//	2SB560(E, F)	//	Q811, 812		
	iF 00 34 50	Diode	ISS133	ダイオード	D701~704, 803~810, 901, 902, 919, 922		
	iF 00 84 80	//	ISR35-100A	//	D920		
	iF 01 07 40	Zener Diode	MTZ6.2B	ツェナーダイオード	D801, 802		
	iF 00 88 60	//	MTZ12B	//	D921		
	iF 00 88 10	//	MTZ3.6B	//	D705, 706		
	iF 00 87 30	LED	SLR-34URC3H3	L E D	D801, 802		
	iF 00 87 40	//	SLR-34MC3H3	//	D921		
	iF 00 42 70	//	SLR-55URC3H	//	D913~918		
	iF 00 79 70	//	SPR-55	2色LED	D909~912		
	VB 96 96 00	Remote Control Receptor	GPIU011	リモコン受光ユニット	U701 } inter- // } changeable		
	VD 85 31 00	//	GPIU501	//			
	iG 07 74 10	IC	NJM4556S-A	I C	IC703		
	iR 02 38 20	//	μPD74HC238C	//	IC901~903		
	XC 63 20 01	//	NJM5532SD	//	IC801~804		
	XA 67 30 01	//	NJM5532DD	//	IC701, 702		
	KA 90 28 90	Rotary Switch, Remote Type	6-5	リモートロータリースイッチ	SW801		
※	VF 97 71 00	Digital Switch		デジタルスイッチ	SW701		
※	VF 33 77 00	Push Switch		プッシュスイッチ	SW702~704		
	VE 32 73 00	Tact Switch	KHH-MA901	タクドスイッチ	SW901~905		

※New Parts (新規部品)

Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	ランク
	KB 00 29 80	Fuse	2.5A 250V	ヒューズ	F701	G	
	VE 56 89 00	Relay	DH12D1-0(M)	リレー	RY901		
	VE 38 45 00	Pin Jack	2P	ピンジャック	PJ801		
	VA 98 44 00	Headphone Jack		ヘッドホンジャック	JK701		
	LB 60 83 90	Connector Socket	6P	STコネクターソケット	CB701		
	LB 20 18 80	Pin, Fuse Holder	PC-FH1	ヒューズホルダーピン		G	
	LA 00 25 80	Lapping Terminal	P=10 2Pi-Type	ラッピング端子板			
	LA 00 25 70	//	P=7.5 3Pi-Type	//		R	
	BB 07 13 60	Screw Terminal		ネジ端子			

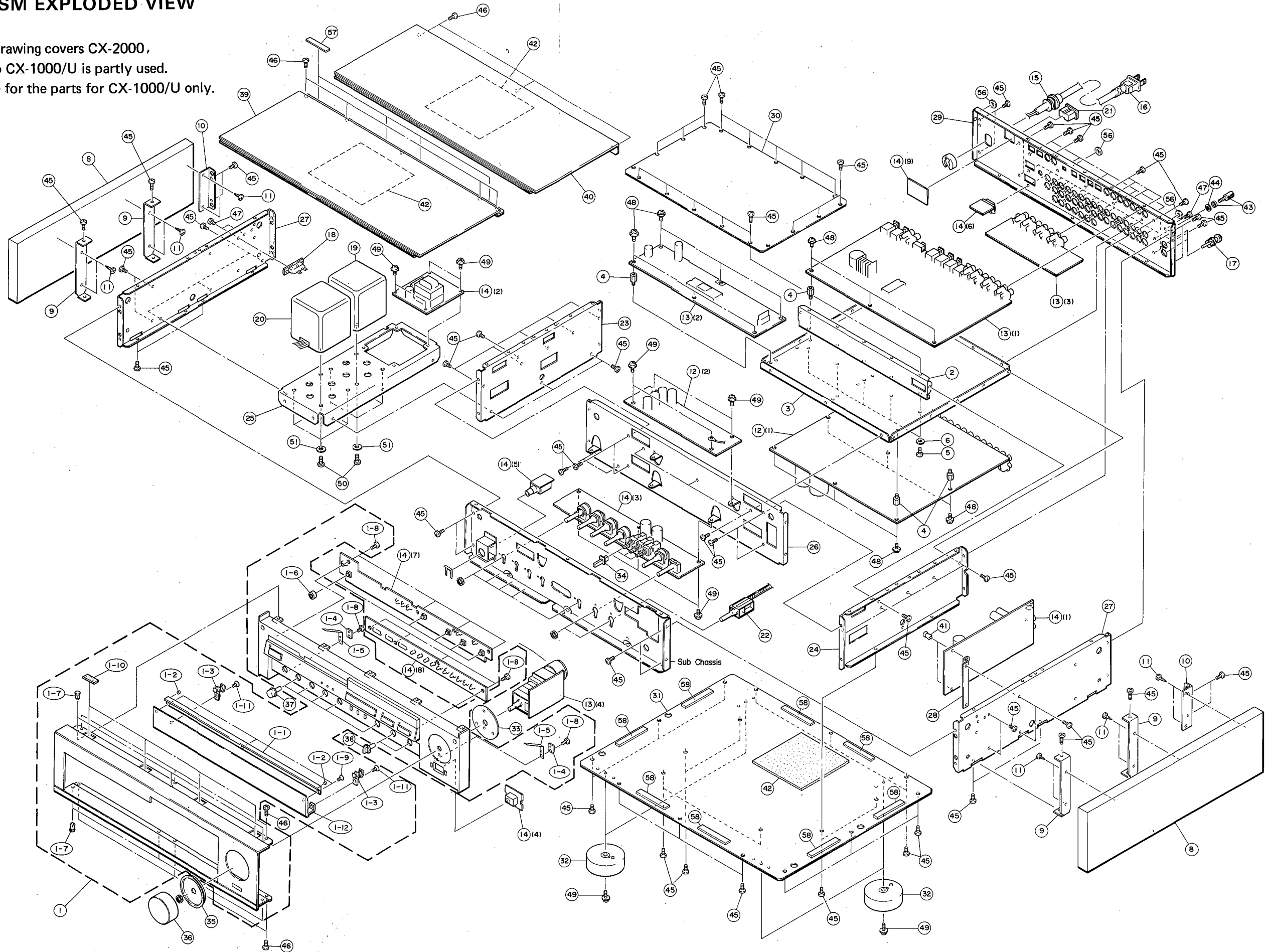
※New Parts (新規部品)

CX-1000/U/2000

MECHANISM EXPLODED VIEW

Note:

This disassembly drawing covers CX-2000.  
 Part in common to CX-1000/U is partly used.  
 Refer to next page for the parts for CX-1000/U only.



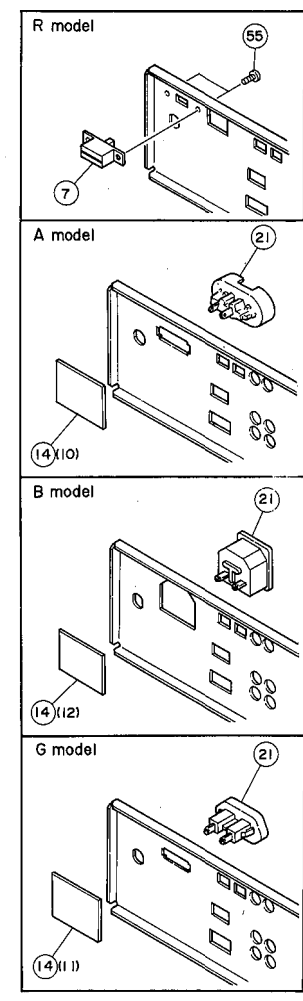
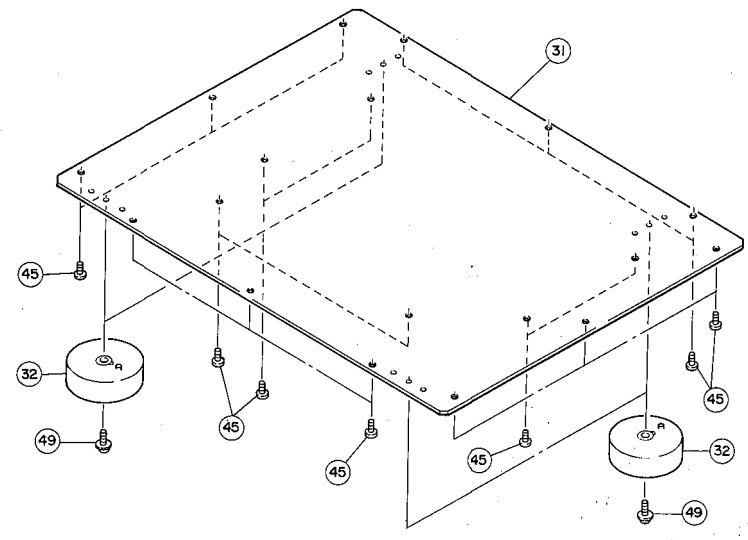
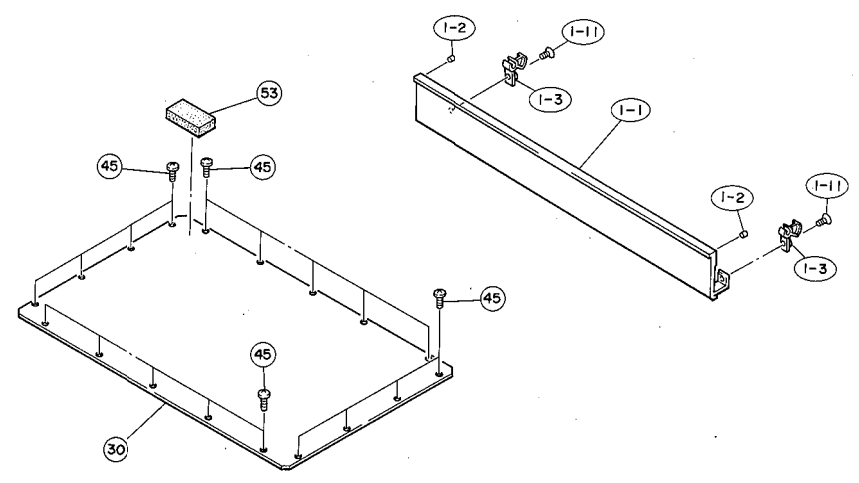
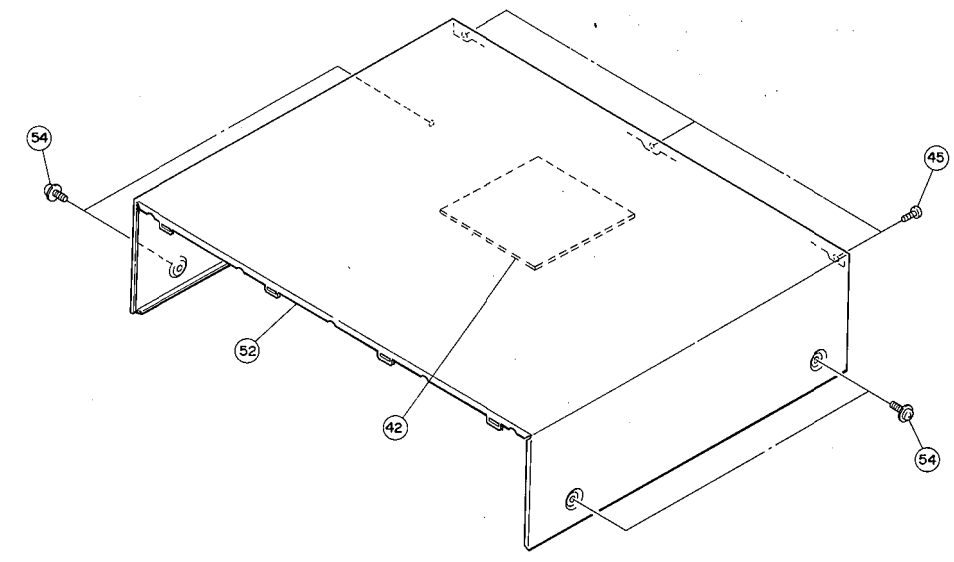
1  
2  
3  
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7

A B C D E

# MECHANISM EXPLODED VIEW

Note: This disassembly drawing covers parts for CX-1000/U use only.

1  
2  
3  
4  
5  
6  
7



Note:  
 ●Mark Shows the Part for Model CX-2000  
 ○Mark Shows the Part for Model CX-1000/U  
 No-mark Shows the Common Part for Models CX-1000/U and CX-2000  
**CX-1000/U/2000**

# MECHANISM PARTS

Ref. No.	Part No.	Description	部品名	Remarks	Common Model	Markets	
※ 1	VF 33 44 00	Panel Unit	パネルユニット			U, C	●
※ //	VF 33 21 00	//	//			U, C	○
※ //	VF 33 22 00	//	//			R, A, B	○
※ //	VF 33 23 00	//	//			G	○
※ 1-1	VE 94 94 00	Sub Panel, D1	サブパネル D1				●
※ //	VE 94 93 00	Sub Panel, D	サブパネル D				○
※ 1-2	VF 07 56 00	Damper	ダンパー				●
※ //	CB 63 97 50	//	//				○
※ 1-3	VE 95 18 00	Stopper	ストッパー				
※ 1-4	VE 95 19 00	Washer	ワッシャー				
※ 1-5	VE 95 24 00	Spring	スプリング				
1-6	VE 27 47 00	Cushion	クッション				
1-7	CB 06 88 80	Plastic Rivet	プラスチックリベット				
1-8	ED 33 00 86	Binding Head Screw	3.0×8 FCRM3-BI	バインド小ネジ	PACK		
1-9	EX 60 10 30	Flat Head Screw	2.6×3 1種S/金メッキ	皿小ネジ			●
1-10	VF 78 28 00	Damper	ダンパー				●
※ //	VF 33 63 00	//	//				○
1-11	EB 33 00 66	Flat Head Screw	3.0×3 FCRM3-BI	皿小ネジ	PACK		
1-12	VE 94 95 00	Sub Panel D2	サブパネル D2				●
※ 2	VE 95 41 00	Frame C-U	フレーム CU				
※ 3	VE 95 38 00	Frame C	フレーム C				
※ 4	VE 27 63 00	PCB Post	PCB ポスト				
5	E1 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バインドタッピングネジ	PACK		
6	EV 41 30 36	Toothed Lock Washer	3mm FCRM3-BI	歯付座金	PACK		
7	VE 96 26 00	Slide Switch		スライドスイッチ		R	○
※ 8	VE 95 52 00	Side Panel L,R		サイドパネル L,R			●
※ 9	VE 95 46 00	Support, S,P-F		サポート S,P-F			●
※ 10	VE 95 47 00	Support, S,P-R		サポート S,P-R			●
11	EQ 03 11 66	Round Head Wood Screw	3.1×16 ZMC2-Y	丸木ネジ	PACK		
※ 12	NA 09 87 80	Analog Circuit Board		アナログシート		U, C	
※ //	VG 16 41 00	//		//		R, A, B	○
※ //	NA 09 87 90	//		//		G	○
※ 13	NA 09 88 00	Digital Circuit Board		デジタルシート		U, C, R, A, B	
※ //	NA 09 88 10	//		//		G	○
※ 14	NA 09 88 20	Equalizer Circuit Board		イコライザーシート		U, C	
※ //	NA 09 88 30	//		//		R	○
※ //	NA 09 88 40	//		//		A	○
※ //	NA 09 88 50	//		//		B	○
※ //	NA 09 88 60	//		//		G	○
15	CB 62 02 00	Cord Stopper	CM-22C	コードストッパー		U, C	
※ //	CB 62 01 90	//	CM-22B	//		R, A, B, G	
16	MG 00 22 20	Power Cord	10A 125V	電源コード		U, C	
※ //	MG 00 16 30	//	6A 250V	//		R	○
※ //	MG 00 23 10	//	7.5A 250V	//		A	○
※ //	MG 00 23 30	//	300V	//		B	○
※ //	MG 00 23 20	//	2.5V 250V	//		G	○
17	LB 10 01 80	Short Plug		ショートプラグ			
18	VD 61 41 00	Terminal	2P	中継端子台			
※ 19	XE 54 30 01	Power Transformer		電源トランス D		U, C	△
※ //	XE 54 40 01	//		//		R	○
※ //	XE 54 50 01	//		//		A, B	○

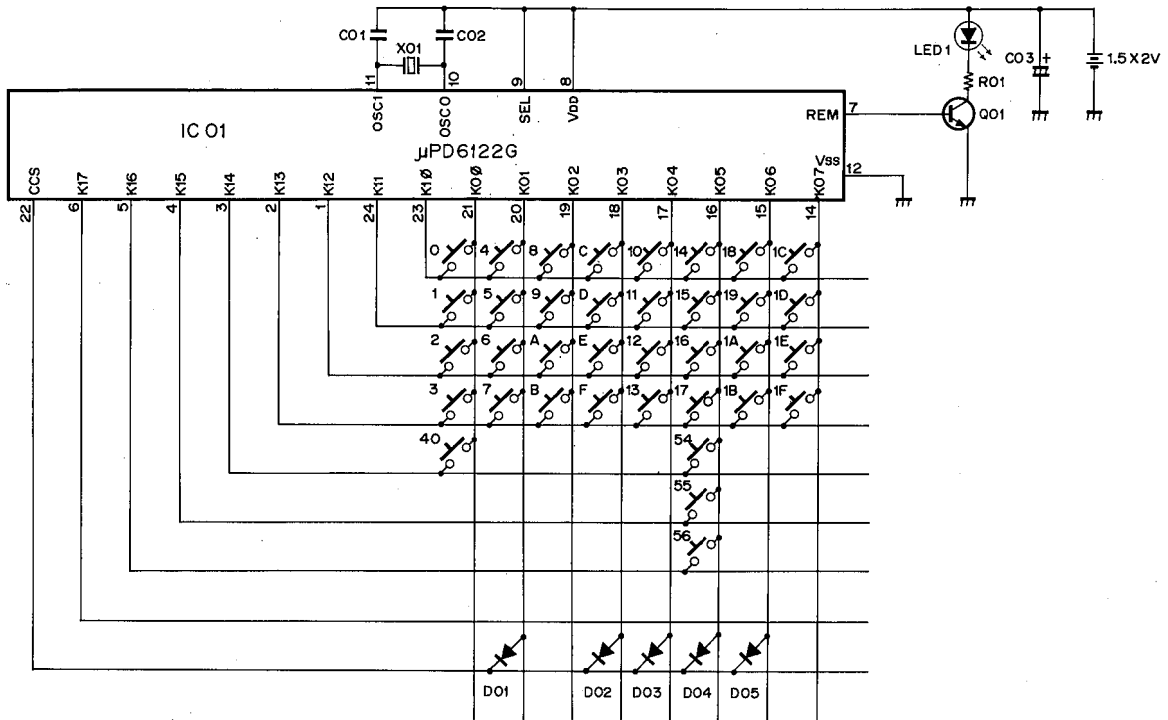
※New Parts (新規部品)

CX-1000/U/2000

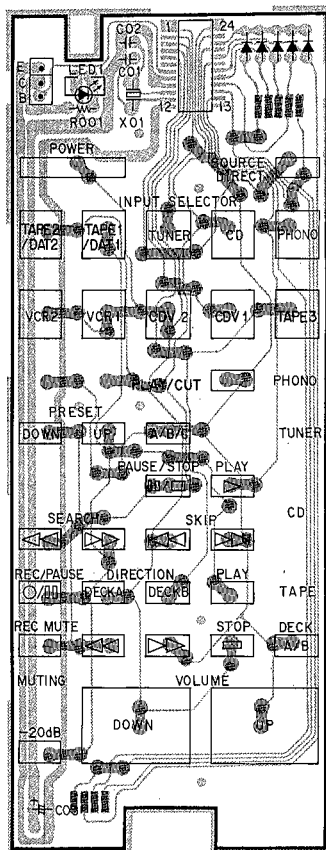


# RS-CX1000/2000 REMOTE CONTROL TRANSMITTER

## ● SCHEMATIC DIAGRAM



## ● PRINTED CIRCUIT BOARD



KEY NO.	FUNCTION	KEY NO.	FUNCTION
0	TAPE PLAY	40	TAPE DIRECTION B
1	◀◀	41	
2	▶▶	42	
3	STOP □	43	
4	REC/PAUSE	44	
5	REC MUTE	45	
6	DECK A/B	46	
7	DIRECTION A	47	
8	CD PLAY ▶	48	
9	PAUSE/STOP	49	
A	SKIP ▶▶	4A	
B	◀◀	4B	
C	SEARCH ▶▶	4C	
D	◀◀	4D	
E	PHONO PLAY/CUT	4E	
F	INPUT VCR1	4F	
10	TUNER PRESET UP	50	
11	DOWN	51	
12	A/B/C	52	
13	INPUT VCR2	53	
14	PHONO	54	INPUT TAPE3
15	CD	55	CDV1
16	TUNER	56	SOURCE DIRECT
17	CDV2	57	
18	TAPE1/DAT1	58	
19	TAPE2/DAT2	59	
1A	VOLUME UP	5A	
1B	DOWN	5B	
1C	MUTING -20dB	5C	
1D		5D	
1E		5E	
1F	POWER	5F	

CX-1000/U/2000

A

B

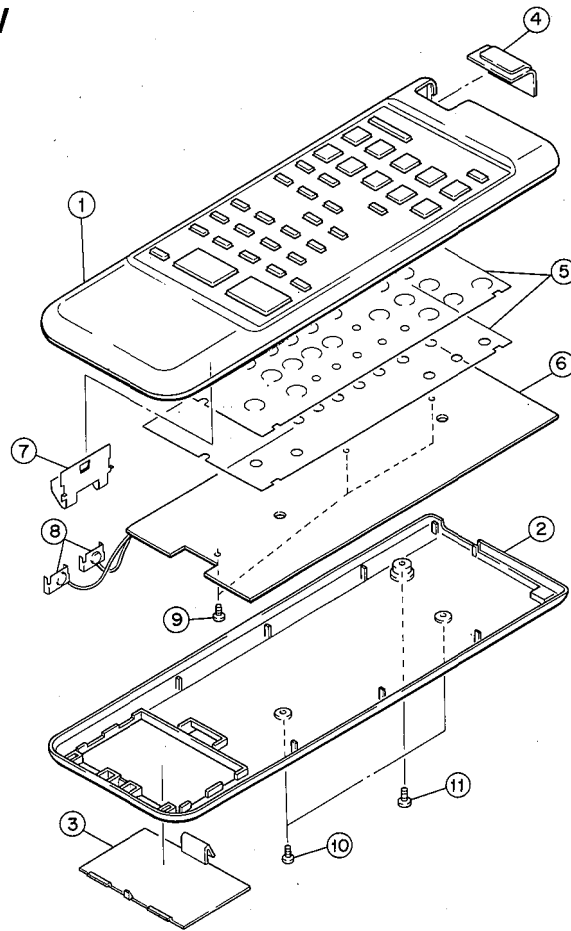
C

D

E

CX-1000/U/2000

## EXPLODED VIEW



Ref. No.	Part No.	Description	部 品 名	Remarks/Markets	Common Model	ランク
※	VE 26 17 00	Remote Control Transmitter	RS-CX1000	リモートコントロールトランスミッター		
※	VF 37 02 00	//	RS-CX2000	//	U,C	
※	1 CX 60 45 40	Case ( A ) Ass'y		ケ ー ス ( A ) Ass'y	RS-CX1000	LH-101-64CFMF
※	// CX 60 50 20	//		//	RS-CX2000	LH-101-60CFMF
※	2 CX 60 45 50	Case ( B ) Ass'y		ケ ー ス ( B ) Ass'y	RS-CX1000	LH-101-61CB
※	// CX 60 45 70	//		//	RS-CX2000	LH-101-60CB
※	3 CX 60 44 60	Lid		電 池 ケ ー ス	RS-CX1000	LH-101-62CD
※	// CX 60 19 50	//		//	RS-CX2000	
※	4 CX 60 20 10	Filter Smoke		ス モ ー ク 板		LH-101-F1
※	5 KX 60 12 90	Mainbrane Switch Unit		メ イン プ レ ス ス イ ッ チ ユ ニ ッ ト		FB-LH101-Ass'y-61
※	6 NX 60 26 20	P.C Board Ass'y		プ リ ン ト 基 板 Ass'y		8P-LH101-Ass'y-62
※	7 LX 60 08 30	Dry Cell Terminal ( A )		電 池 接 片 ( A )		DT-LH101FNB
※	8 LX 60 13 40	// ( B )		// ( B )		LH-101-DTCN
※	9 EX 60 04 00	Bind Head Tapping Screw	2×4 ZMC2-BI	ナベタッピングネジ		
※	10 EJ 32 00 36	//	2×3 FCRM3-BI	//	PACK	
※	11 Ei 32 60 66	Binding Head Tapping Screw	2.6×6 ZMC2-BI	バインドタッピングネジ	PACK	
※	<b>NX 60 26 20</b>	<b>P.C Board Ass'y</b>		プ リ ン ト 基 板 Ass'y		
※	iX 61 10 70	LED	SLR-56SB3	L E D		
※	HF 85 31 00	Carbon Resistor	1Ω 1/6W	カ ー ボ ン 抵 抗	R01	
※	iF 00 34 50	Diode	ISS133	ダ イ オ ード	D01~05	
※	iX 61 10 80	Transistor	2SD1469	ト ラ ン ジ ス タ	Q01	
※	iiX 61 16 30	IC	μPD6122G	I C	IC01	
※	UJ 11 74 70	Eeectrolytic Cap.	47μF 6.3V	ケ ミ コ ン	C03	
※	FG 21 21 00	Ceramic Cap.	100pF 50V	セ ラ コ ン	C01,02	
※	QX 60 00 20	Ceramic Resonator	CSB455EB	セ ラ ミ ッ ク 発 振 器	X01	

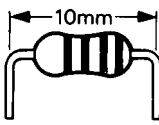
※New Parts (新規部品)

# Parts List for Carbon Resistor

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ353100	HF853100	12K Ω	HJ357120	HF857120
1.8 "	HJ353180	※	15 "	HJ357150	HF857150
2.2 "	HJ353220	HF853220	18 "	HJ357180	HF857180
3.3 "	HJ353330	HF853330	22 "	HJ357220	HF857220
4.7 "	HJ353470	HF853470	27 "	HJ357270	HF857270
5.6 "	HJ353560	HF853560	33 "	HJ357330	HF857330
10 "	HJ354100	HF854100	39 "	HJ357390	HF857390
15 "	HJ354150	HF854150	47 "	HJ357470	HF857470
22 "	HJ354220	HF854220	56 "	HJ357560	HF857560
27 "	HJ354270	HF854270	68 "	HJ357680	HF857680
33 "	HJ354330	HF854330	82 "	HJ357820	HF857820
39 "	HJ354390	HF854390	91 "	HJ357910	HF857910
47 "	HJ354470	HF854470	100 "	HJ358100	HF858100
56 "	HJ354560	HF854560	120 "	HJ358120	HF858120
68 "	HJ354680	HF854680	150 "	HJ358150	HF858150
82 "	HJ354820	HF854820	180 "	HJ358180	HF858180
100 "	HJ355100	HF855100	220 "	HJ358220	HF858220
110 "	HJ355110	HF855110	270 "	HJ358270	HF858270
120 "	HJ355120	HF855120	330 "	HJ358330	HF858330
150 "	HJ355150	HF855150	390 "	HJ358390	HF858390
160 "	HJ355160	※	470 "	HJ358470	HF858470
180 "	HJ355180	HF855180	560 "	HJ358560	HF858560
220 "	HJ355220	HF855220	680 "	HJ358680	HF858680
270 "	HJ355270	HF855270	820 "	HJ358820	HF858820
330 "	HJ355330	HF855330	1.0M Ω	HJ359100	HF859100
390 "	HJ355390	HF855390	1.2 "	HJ359120	※
470 "	HJ355470	HF855470	1.5 "	HJ359150	HF859150
510 "	※	HF855510	1.8 "	HJ359180	HF859180
560 "	HJ355560	HF855560	2.2 "	HJ359220	HF859220
680 "	HJ355680	HF855680	3.3 "	HJ359330	HF859330
820 "	HJ355820	HF855820	3.9 "	HJ359390	※
910 "	HJ355910	HF855910	4.7 "	HJ359470	HF859470
1.0K Ω	HJ356100	HF856100			
1.2 "	HJ356120	HF856120			
1.5 "	HJ356150	HF856150			
1.8 "	HJ356180	HF856180			
2.0 "	HJ356200	HF856200			
2.2 "	HJ356220	HF856220			
2.4 "	HJ356240	HF856240			
2.7 "	HJ356270	HF856270			
3.0 "	HJ356300	HF856300			
3.3 "	HJ356330	HF856330			
3.6 "	HJ356360	HF856360			
3.9 "	HJ356390	HF856390			
4.7 "	HJ356470	HF856470			
5.1 "	HJ356510	HF856510			
5.6 "	HJ356560	HF856560			
6.8 "	HJ356680	HF856680			
8.2 "	HJ356820	HF856820			
9.1 "	HJ356910	HF856910			
10 "	HJ357100	HF857100			

1/4W Type


HJ35○○○○



10mm

1/6W Type

HF85○○○○



5mm

**CX-1000/U/2000**

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CX-1000/U/2000

**YAMAHA**

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