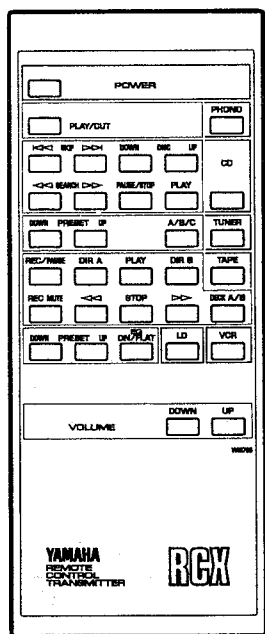
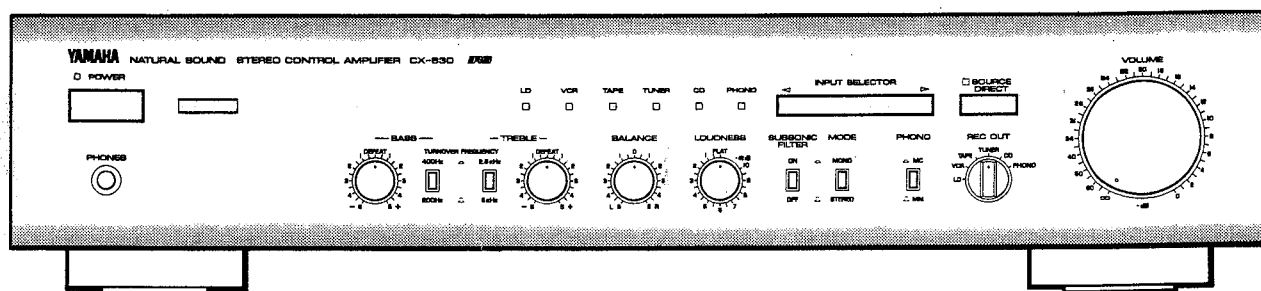


STEREO CONTROL AMPLIFIER CX-630

SERVICE MANUAL



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 or 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.

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TO SERVICE PERSONNEL	1
SPECIFICATIONS	1
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100335

YAMAHA
YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan
3.3K-807 © Printed in Japan '90. 3

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■ TO SERVICE PERSONNEL

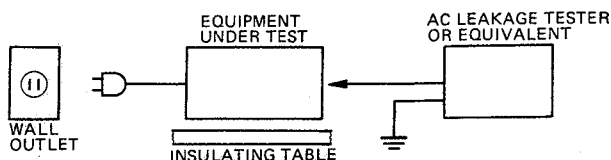
1. Critical Components Information.

Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

2. 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 μ F.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with the AC plug in both polarities.



• POLARIZATION

This amplifier product is equipped with a polarized alternating-current lineplug (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)

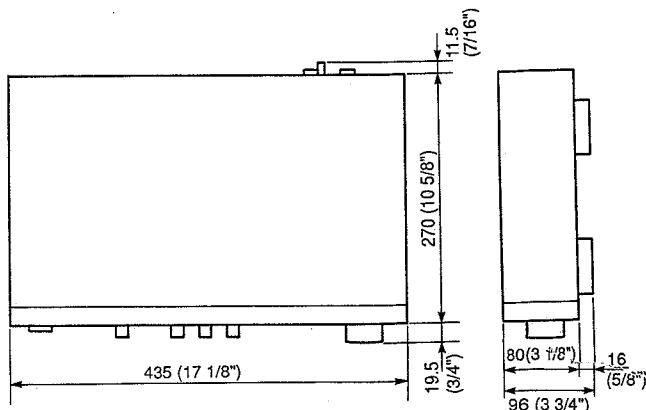
■ SPECIFICATIONS

Input Sensitivity/Impedance	
Phono MC	100 μ V/100 Ω
MM	2.5 mV/47 k Ω
CD/TUNER/TAPE/VCR/LD	150 mV/47 k Ω
Input Sensitivity (New IHF)	
Phono MC	33 μ V
MM	0.83 mV
CD/TUNER/TAPE/VCR/LD	50 mV
Maximum Input Signal	
1 kHz, 0.03% THD, Phono MC	7 mV
1 kHz, 0.01% THD, Phono MM	170 mV
Output Level/Impedance	
REC OUT	150 mV/2.5 k Ω
PRE OUT	1.5V/47 Ω
Maximum Voltage Output	
20 Hz — 20 kHz 0.1% THD	8.5V or more
Headphone Jack Rated Output/Impedance	
Output Level (0.1% THD RL = 150 Ω)	4.4V
Impedance	82 Ω
Frequency Response	
CD/TUNER/TAPE/VCR/LD	20 Hz — 20 kHz (± 0.2 dB)
RIAA Equalization Deviation	
Phono MC/MM	20 Hz — 20 kHz ($\pm 0.3/\pm 0.2$ dB)
Total Harmonic Distortion	
20 Hz — 20 kHz	
Phono MC to REC OUT, 3V	0.002%
MM to REC OUT, 3V	0.002%
(SOURCE DIRECT ON)	
CD/TUNER/TAPE/VCR/LD to Pre Out, 3V	0.002%
Signal-to-Noise Ratio (IHF-A Network)	
Phono MC (500 μ V Input Shorted)	84 dB
MM (5 mV Input Shorted)	94 dB
SOURCE DIRECT (Shorted)	106 dB
Residual Noise (IHF-A Network)	
	8 μ V
Channel Separation	
(Vol Max.)	
Phono MC, MM Input shorted	
1 kHz/10 kHz	80 dB/70 dB
CD/TUNER/TAPE/VCR/LD Input 5.1 k Ω Terminated	
1 kHz/10 kHz	70 dB/60 dB
Tone Control Characteristics	
Bass	
Boost/Cut	± 10 dB (20 Hz)
Turnover frequency	200 Hz · 400 Hz
Treble	
Boost/Cut	± 10 dB (20 kHz)
Turnover frequency	2.5 kHz · 5 kHz

Video Input Sensitivity/Impedance	
VCR, LD	1 Vp-p/75 Ω
Video Output Level/Impedance	
VCR OUT, MONITOR OUT	1 Vp-p/75 Ω
Filter Characteristics	
Subsonic	15 Hz, -12 dB/oct
Continuous Loudness Control (Level Related Equalization)	
Attenuation	-40 dB (1 kHz)
Gain Tracking Error	
(0 — -60 dB)	2 dB
Power Supply	
U.S.A. and Canadian models	AC 120 V/60 Hz
British and Australian models	AC 240 V/50 Hz
European model	AC 220 V/50 Hz
General model	AC 110/120/220/240 V 60/50 Hz
Power Consumption	
	30 W
AC Outlets	
U.S.A. Canadian and General models	
Switched (2)	200 W max.
Unswitched (1)	200 W max.
British, Australia, and Europe models	
Switched (1)	100 W max.
Dimensions (W x H x D)	
	435 x 96 x 301 mm (17-1/8" x 3-3/4" x 11-7/8")
Weight	
	4.8 kg (10 lbs. 9 oz.)

* Specifications are subject to change without notice.

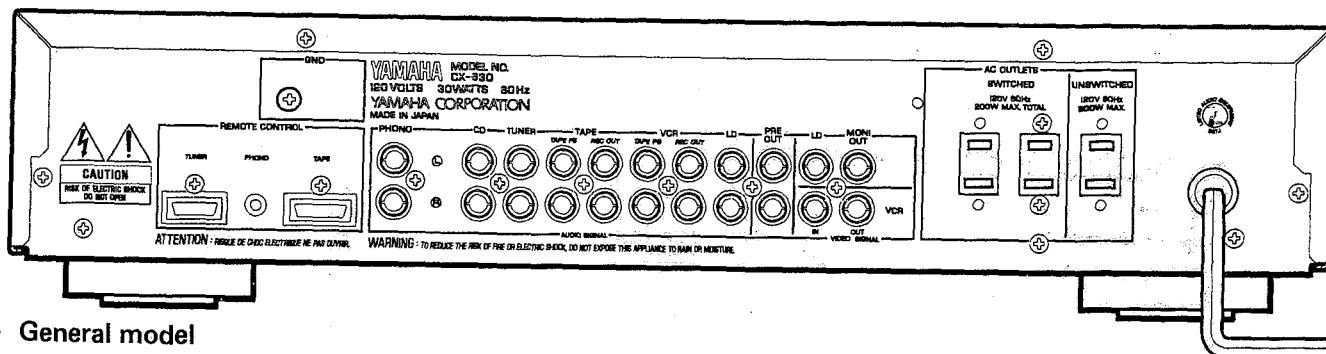
• DIMENSIONS



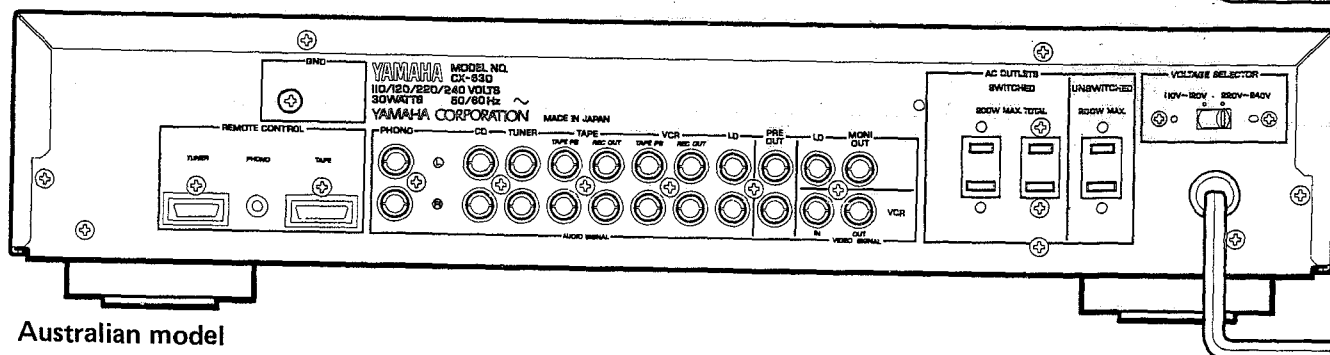
UNIT: mm (inch)

REAR PANEL

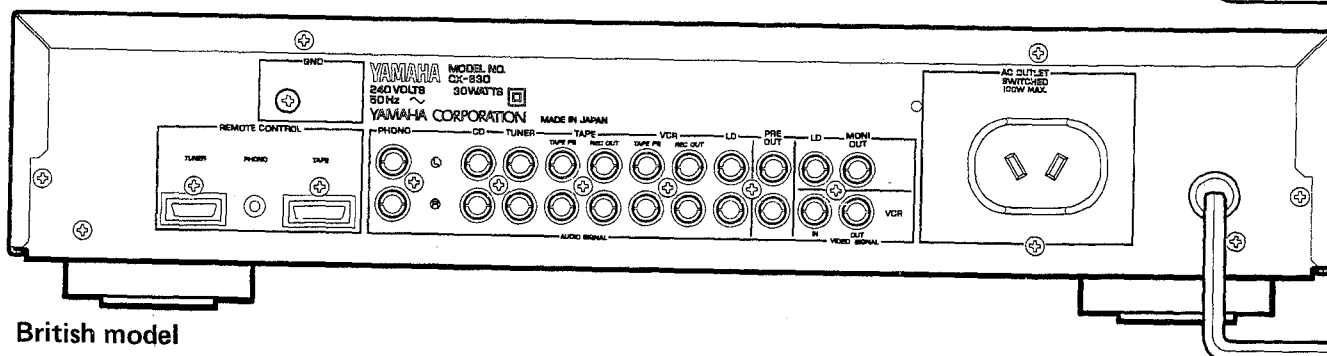
- U.S.A. and Canadian models



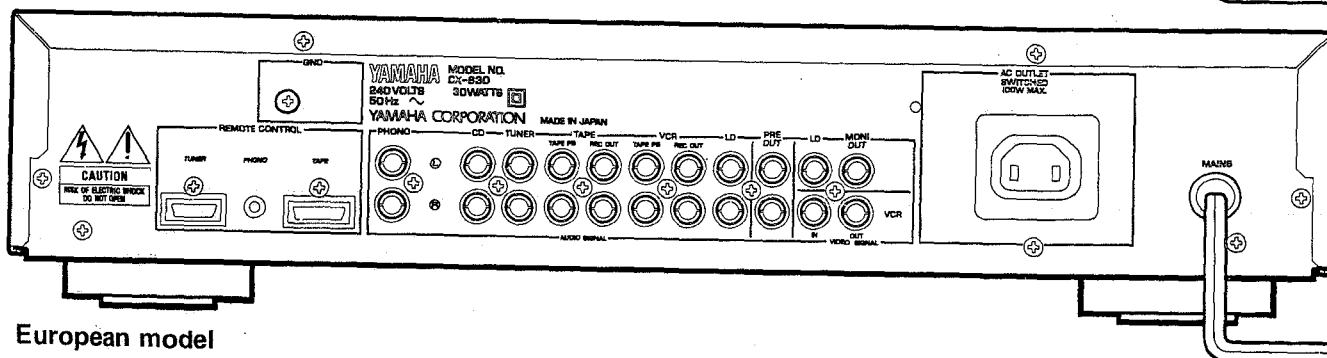
- General model



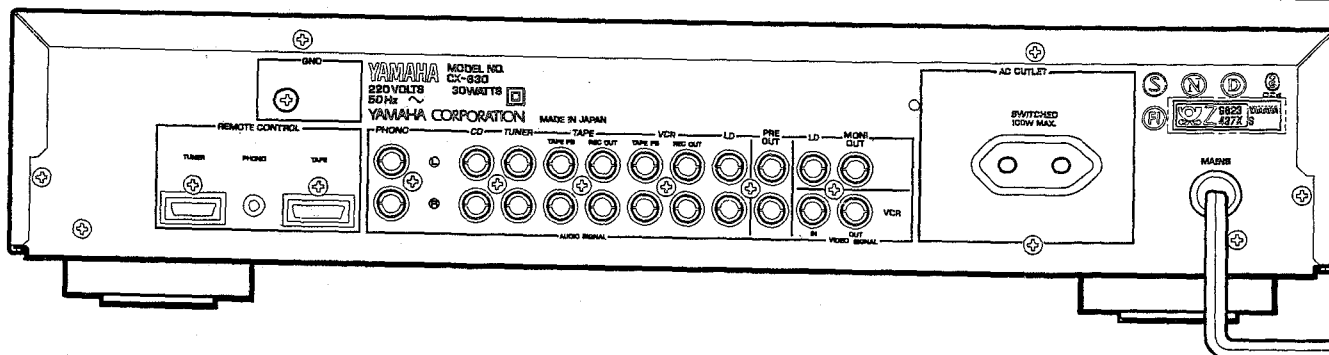
- Australian model



- British model

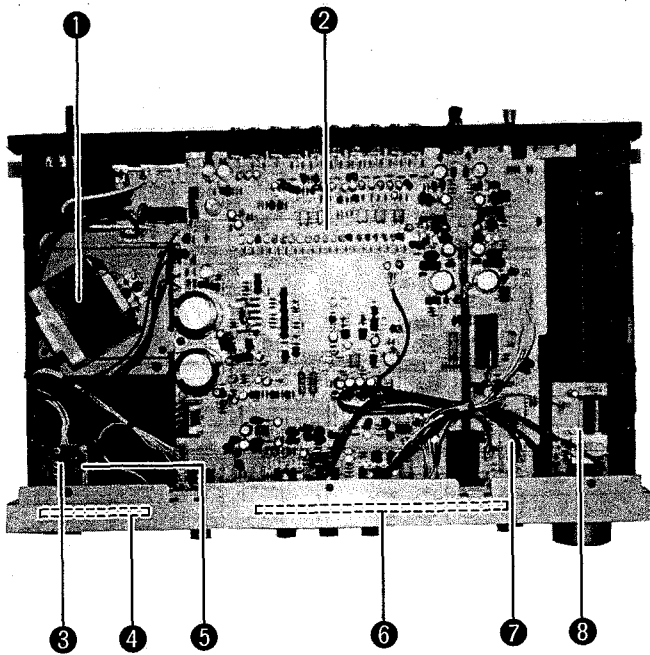


- European model



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INTERNAL VIEW



- ① POWER TRANSFORMER
U, C models : XG997A0
R model : XG998A0
A, B models : XG999A0
G model : XH000A0
- ② MAIN CIRCUIT BOARD (1)
- ③ MAIN CIRCUIT BOARD (5)
- ④ MAIN CIRCUIT BOARD (6)
- ⑤ MAIN CIRCUIT BOARD (7)
- ⑥ MAIN CIRCUIT BOARD (2)
- ⑦ MAIN CIRCUIT BOARD (4)
- ⑧ MAIN CIRCUIT BOARD (3)

DISASSEMBLY PROCEDURES

1. Removal of Top Cover

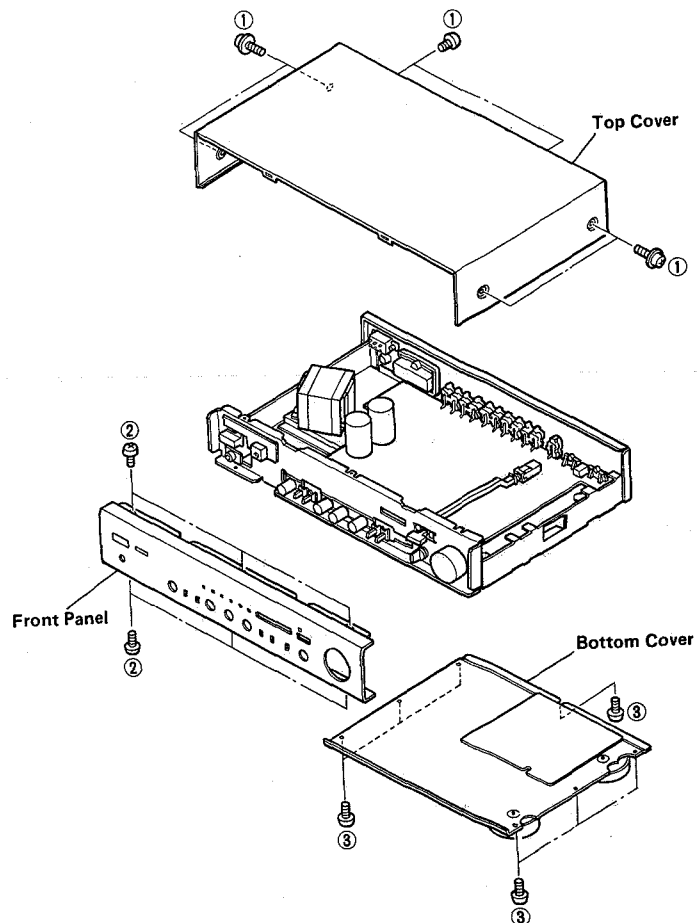
Remove 6 screws (①) in Fig. 1, and slide the Top Cover back and up.

2. Removal of Front Panel

Remove 6 screws (②) in Fig. 1.

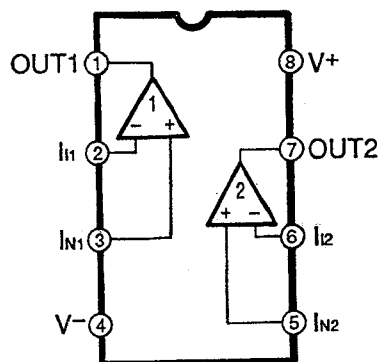
3. Removal of Bottom Cover

Remove 7 screws (③) in Fig. 1.

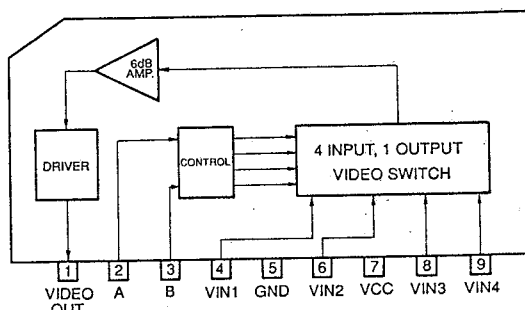


IC BLOCK

- IC1 ~ 5, 11 ~ 13 : NJM2041D-D
Ope-Amp.

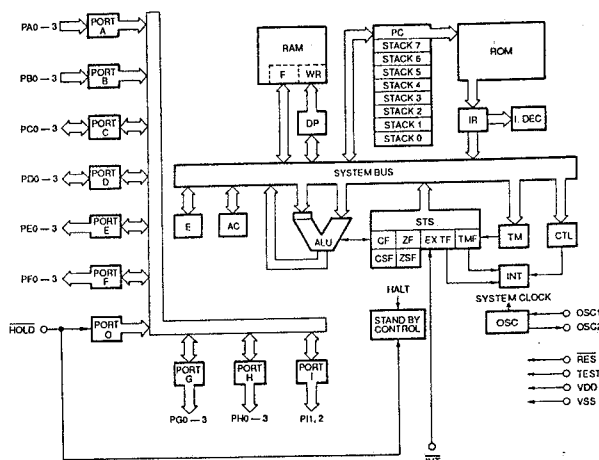
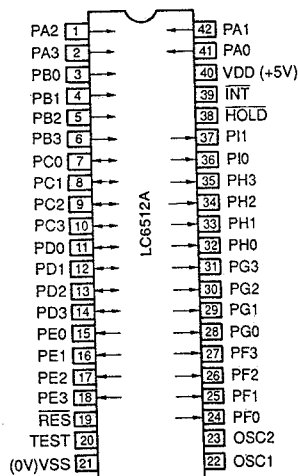


- IC6 : LA7952



A (2 pin)	B (3 pin)	VIN1 (4 pin)	VIN2 (6 pin)	VIN3 (8 pin)	VIN4 (9 pin)
H	H	ON	OFF	OFF	OFF
L	H	OFF	ON	OFF	OFF
H	L	OFF	OFF	ON	OFF
L	L	OFF	OFF	OFF	ON

- IC8 : LC6512A-4264
Microcomputer

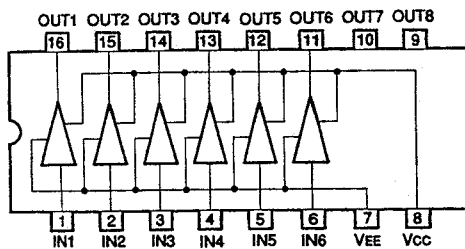


Pin No.	Terminal Name	Function	Pin No.	Terminal Name	Function
1	PA2		22	OSC1	
2	PA3	GND	23	OSC2	
3	PB0	Input Selector UP	24	PF0	PHONO Input
4	PB1	Input Selector DOWN	25	PF1	CD Input
5	PB2	GND	26	PF2	TUNER Input
6	PB3	GND	27	PF3	TAPE Input
7	PC0		28	PG0	NC
8	PC1	NC	29	PG1	VCR Input
9	PC2	NC	30	PG2	NC
10	PC3	RS Remote Control PHONO	31	PG3	LD Input
11	PD0	RS Remote Control TAPE	32	PH0	Volume Down
12	PD1	RS Remote Control TAPE	33	PH1	Volume Up
13	PD2	RS Remote Control TAPE	34	PH2	RS Remote Control TUNER
14	PD3	RS Remote Control TAPE	35	PH3	RS Remote Control TUNER
15	PE0	Power On/Off	36	PI0	NC
16	PE1	Video Input Control LD	37	PI1	Mute
17	PE2	Video Input Control VCR	38	HOLD	
18	PE3	NC	39	INT	
19	RES		40	VDD	+5V Input
20	TEST	GND	41	PA0	Remote Control Input
21	VSS	GND	42	PA1	Power Switch

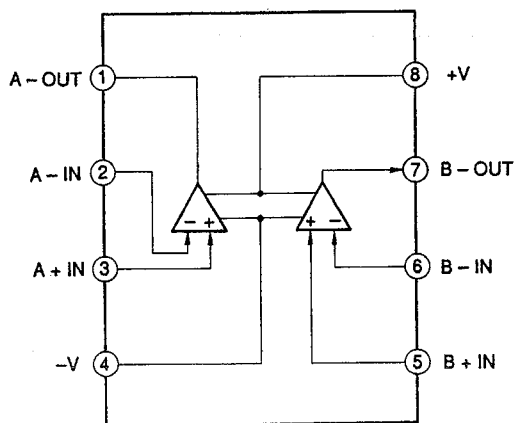
Video Input Control Selector

Pin No.	LD	VCR 1	VCR 2
16	H	L	L
17	L	H	L
18	L	L	H

- IC7 : LB1294
Driver



- IC14 : NJM5532D-D
Ope-Amp.



Remote Control Terminal

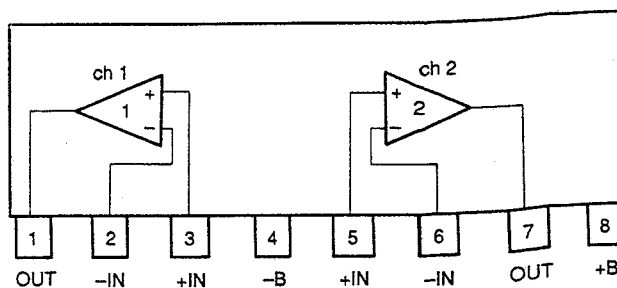
(TAPE)



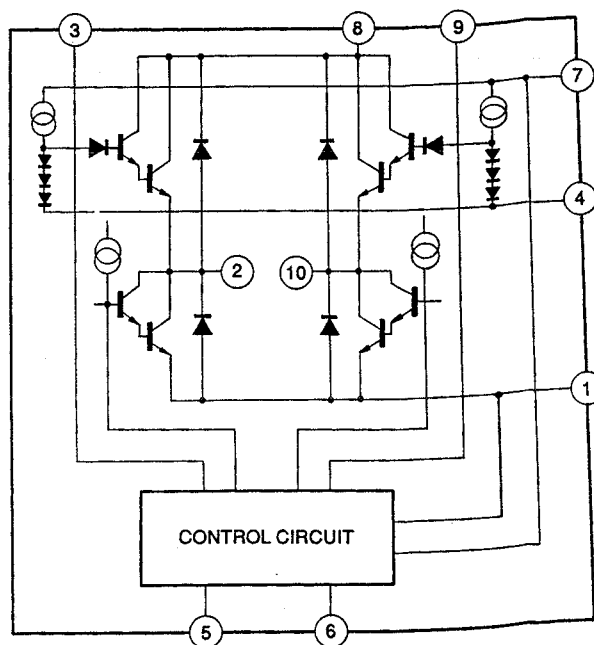
(TUNER)



- IC9, 10 : M5219L
Ope-Amp.



- IC15 : BA6229
Driver



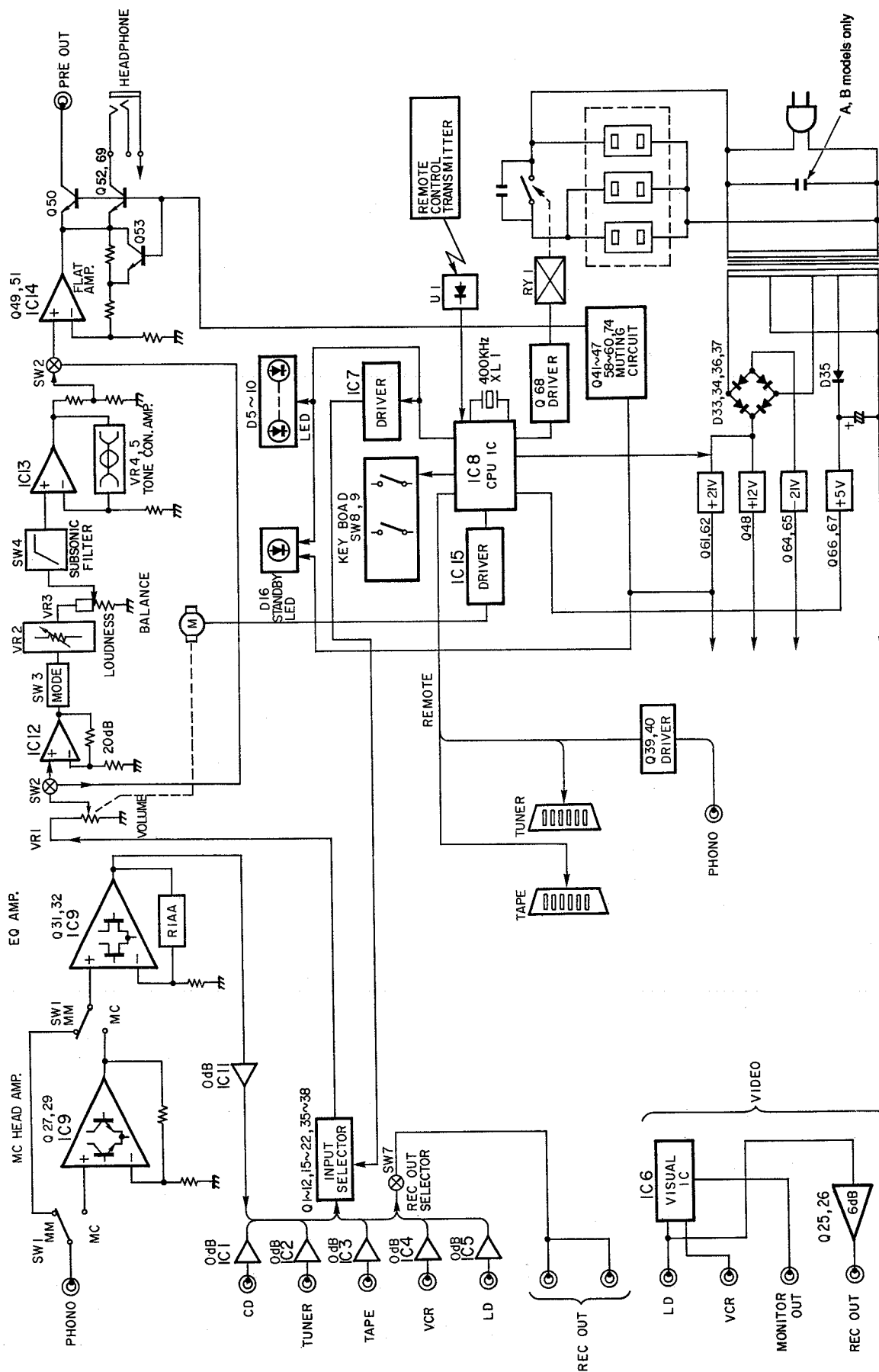
TR3	TR2	TR1	TR0	MODE
L	L	L	L	NO DATA
L	L	L	H	STOP
L	L	H	L	FF
L	L	H	H	REW
L	H	L	L	PLAY
L	H	L	H	REC PAUSE
L	H	H	L	REC MUTE
H	H	H	H	A/B
H	H	L	L	DIR A
H	H	L	H	DIR B

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

1



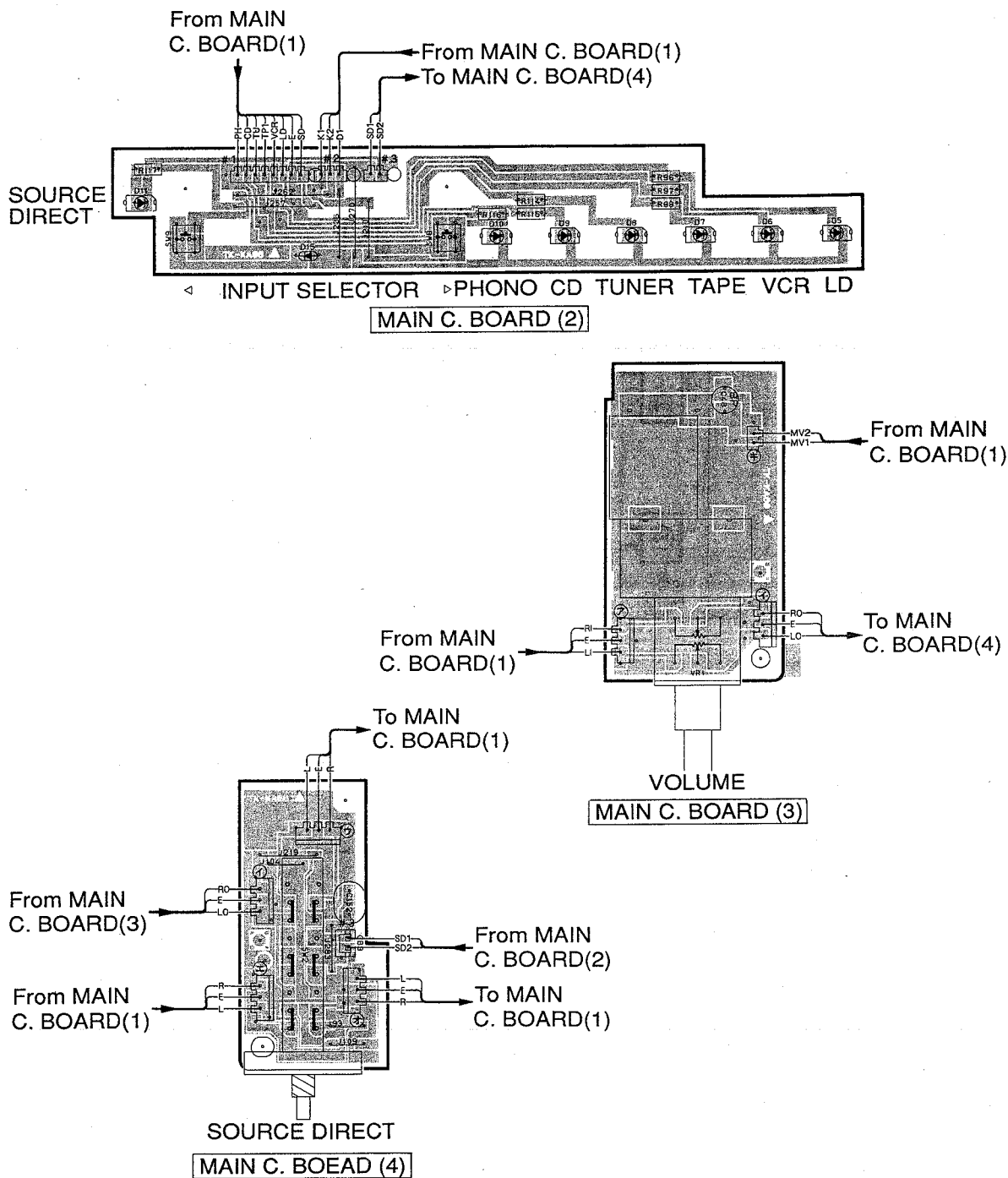
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PRINTED CIRCUIT BOARD (Pattern side)

Notes) 文字面 : Component side

For a Printed Circuit Board number terminated with **D** or **E**, refer to Page 7, 8 or Page 9, 10, respectively, in that order.



Note : * Marked for Printed Circuit Board

	U, C	R	A, B	G
*1 R1-6, 11-14	100			220
*3 C5-8, 11-14	OPEN			270P
*4 F1	OPEN			T2.5A 250V
*5 J169	SHORT			OPEN
*6 C60, 63	220P/100			330P/100
*7 C44, 45	0.01			0.018
*8 R136, 143	220			2.2K
*9 R312, 313	OPEN			1K
*10 L3, 4	SHORT (J301, J302)			15μH
*11 C3, 4	220P/100 or 220P/400			270P/100

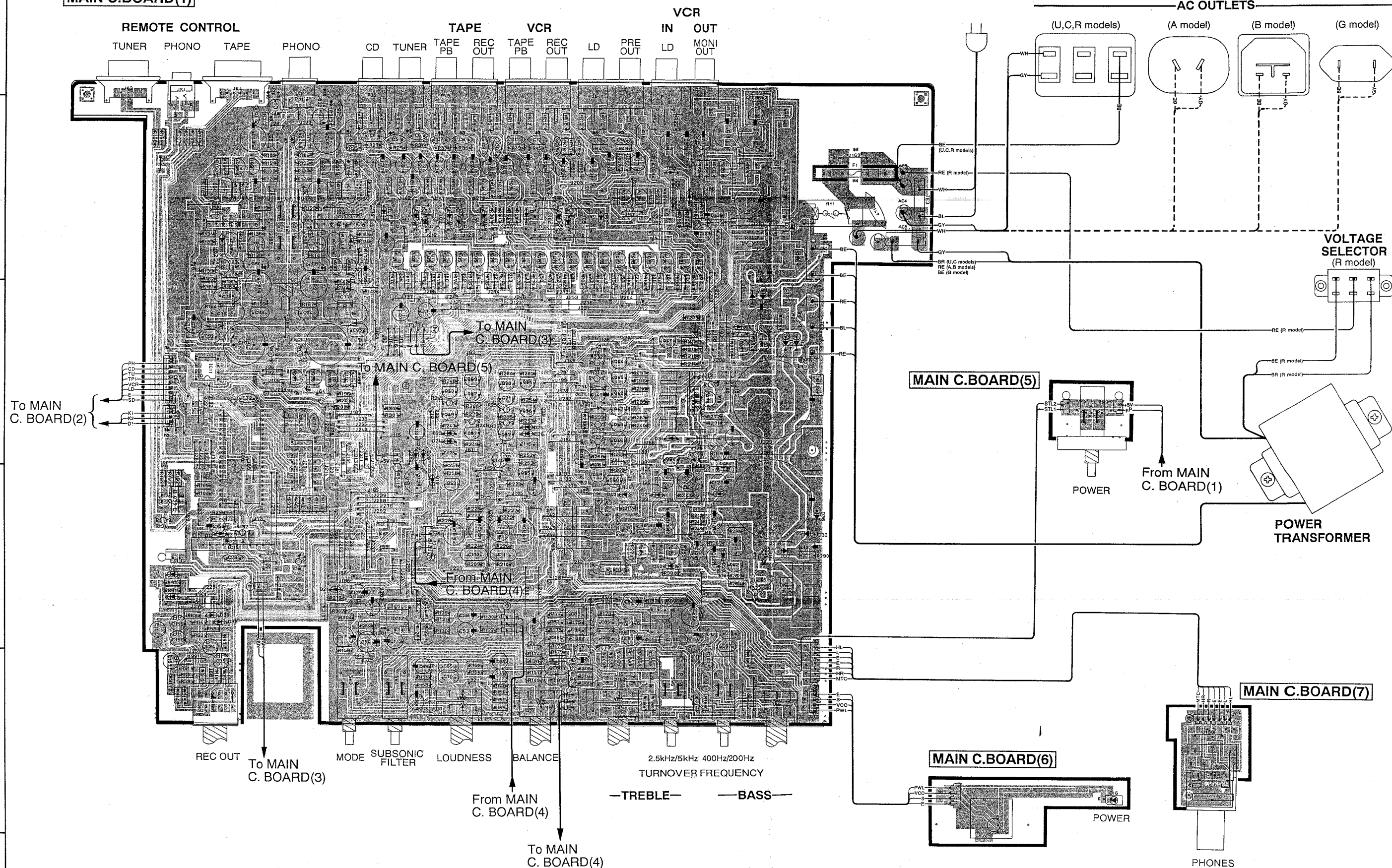
CX-630

PRINTED CIRCUIT BOARD (Pattern side)

Notes) 文字面 : Component side

For a Printed Circuit Board number terminated with **D** or **E**, refer to Page 7, 8 or Page 9, 10, respectively, in that order.

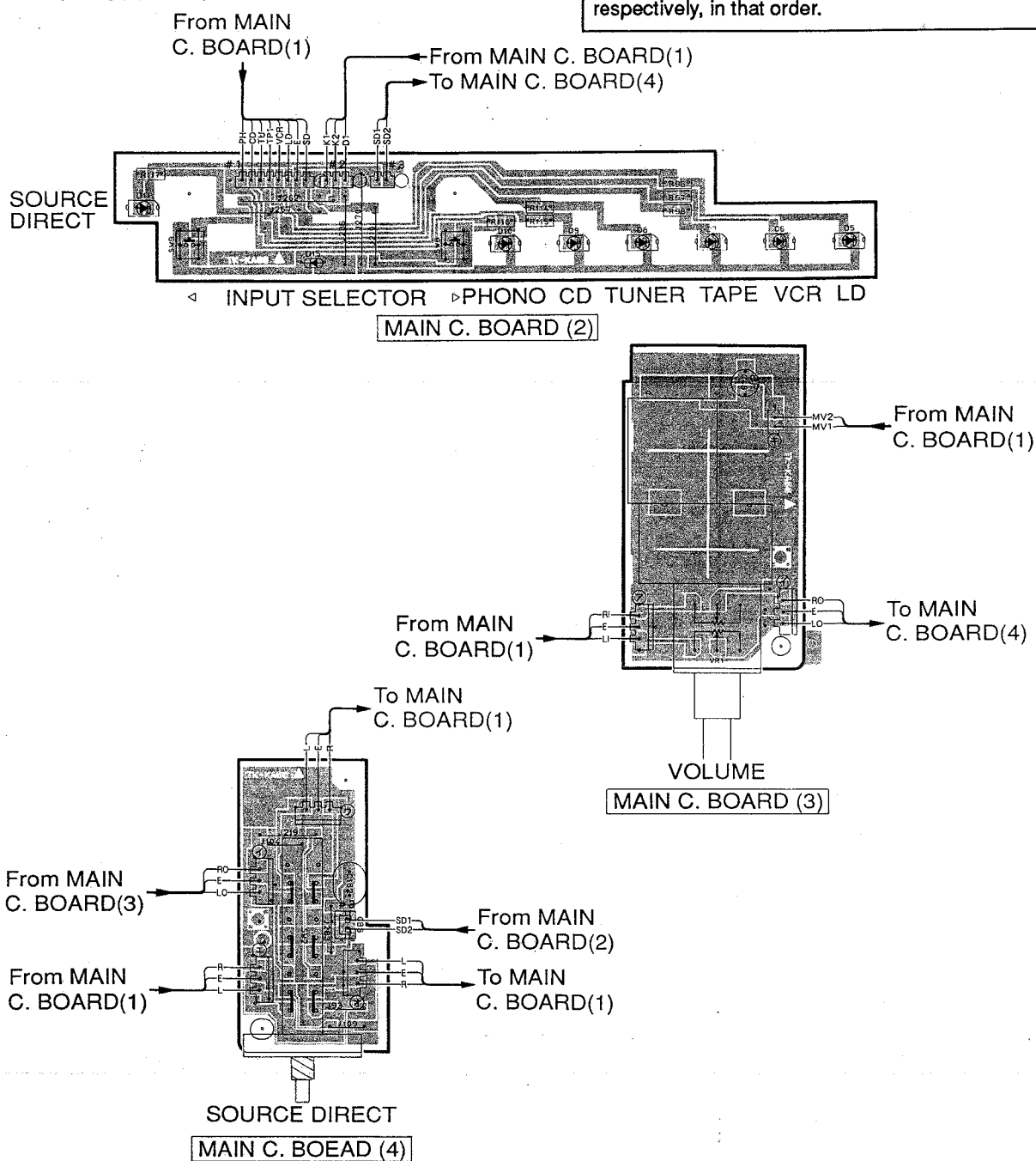
MAIN C.B.OARD(1)



PRINTED CIRCUIT BOARD (Pattern side)

Notes) 文字面 : Component side

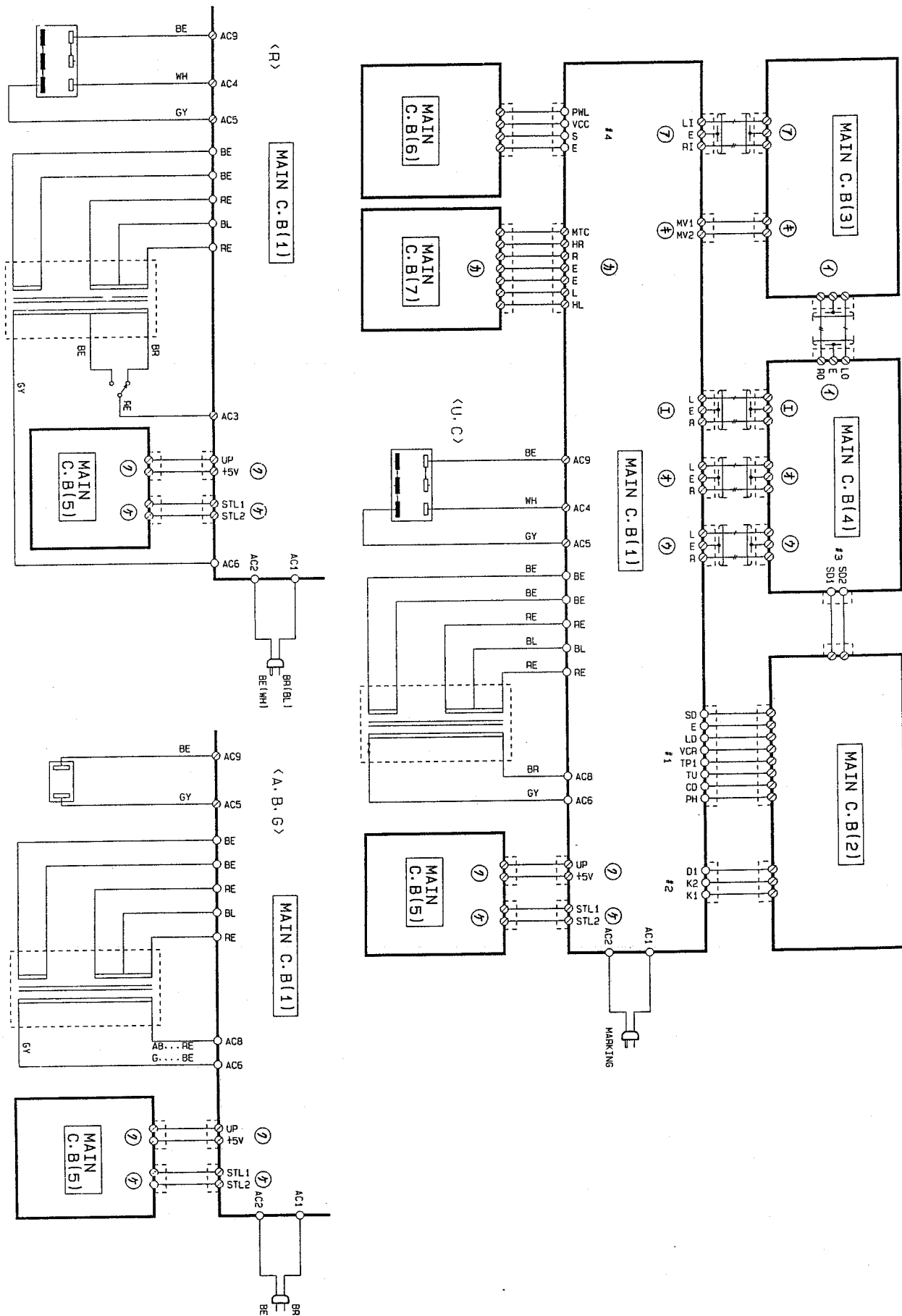
For a Printed Circuit Board number terminated with **D** or **E**, refer to Page 7, 8 or Page 9, 10, respectively, in that order.



Note : * Marked for Printed Circuit Board

	U, C	R	A, B	G
*3 C5~8, 11~14	OPEN			270P
*4 F1	OPEN			T2.5A 250V
*5 J169	SHORT			OPEN
*6 C60, 63	220P/100			330P/100
*7 C44, 45	0.01			0.018
*8 R136, 143	220			2.2K
*9 R312, 313	OPEN			1K
*10 L3, 4	SHORT (J301, J302)			15μH
*11 C3, 4	220P/100 or 220P/400			270P/100
*12 R320, 321	2.2	SHORT (J311, J312)		
*13 R322, 323	4.7K	OPEN		
*14 R269	2.7K	4.7K		
*15 Q75, 76	USE	NOT USE		
*16 D28	MTZJ3.6B	MTZJ6.2B		

■ WIRING



PARTS LIST

■ WARNING

- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Carbon resistors 1/4 W are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to P.22.

■ ELECTRICAL PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VI590300	MAIN CIRCUIT BOARD	メインシート		C	
	VI590400	MAIN CIRCUIT BOARD	メインシート		R	
	VI590500	MAIN CIRCUIT BOARD	メインシート		A,B	
	VI590600	MAIN CIRCUIT BOARD	メインシート		G	
	VJ550700	MAIN CIRCUIT BOARD	メインシート		U	
	FA156100	MYLAR FILM CAP	マイラーコン	C152		
	FA153470	MYLAR FILM CAP	マイラーコン	C65,70		
	FA154100	MYLAR FILM CAP	マイラーコン	C44,45	U,C,R,A,B	
	UA254180	MYLAR FILM CAP	マイラーコン	C44,45	G	
	FA154150	MYLAR FILM CAP	マイラーコン	C93,94		
	FA154470	MYLAR FILM CAP	マイラーコン	C92,95		
	FA154510	MYLAR FILM CAP	マイラーコン	C97,98,102,103		
	VI503300	MYLAR FILM CAP	マイラーコン	C106-109		
	VI504200	MYLAR FILM CAP	マイラーコン	C82,83,89,90		
	VI802200	POLYETHYLENE FILM CAP	ポリエチレンコン	C116,125,135,139		
	UT452100	POLYPROPYLENE FILM CAP	PPコン	C110,111		
	UT452100	POLYPROPYLENE FILM CAP	PPコン	C55,56,85,86,99,100	U,C,R,A,B	
	UT452220	POLYPROPYLENE FILM CAP	PPコン	C60,63	G	
	UT452330	POLYPROPYLENE FILM CAP	PPコン	C60,63	U,C,R,A,B	
	UT452220	POLYPROPYLENE FILM CAP	PPコン	C3,4		
	UT452270	POLYPROPYLENE FILM CAP	PPコン	C3,4	G	
	UT452200	POLYPROPYLENE FILM CAP	PPコン	C159,160		
	UT452470	POLYPROPYLENE FILM CAP	PPコン	C59,64		
	UT453100	POLYPROPYLENE FILM CAP	PPコン	C50,51		
	UT453150	POLYPROPYLENE FILM CAP	PPコン	C42,47		
	UT464270	POLYPROPYLENE FILM CAP	PPコン	C75,77		
	UT464470	POLYPROPYLENE FILM CAP	PPコン	C81,88		
	UT465100	POLYPROPYLENE FILM CAP	PPコン	C76,78		
	VF611200	MULTILAYER CERAMIC CAP	積層セラコン	C151		
	FG210500	CERAMIC CAP	セラコン	C36		
	FG212220	CERAMIC CAP	セラコン	C9,10,15,16		
	FG212220	CERAMIC CAP	セラコン	C5-8,11-14	G	
	FG212270	CERAMIC CAP	セラコン	C5-8,11-14	G	
	FG212330	CERAMIC CAP	セラコン	C71,72		
	FG244100	CERAMIC CAP	セラコン	C1,2,73		
	UH137100	ELECTROLYTIC CAP	ケミコン	C124		
	UH137330	ELECTROLYTIC CAP	ケミコン	C17,37,39		
	UH147100	ELECTROLYTIC CAP	ケミコン	C118,121		
	UH147220	ELECTROLYTIC CAP	ケミコン	C117,122,130		
	UH147470	ELECTROLYTIC CAP	ケミコン	C158		
	UH148100	ELECTROLYTIC CAP	ケミコン	C153		
	UH166100	ELECTROLYTIC CAP	ケミコン	C129,131,132		
	UJ165100	ELECTROLYTIC CAP	ケミコン	C150		
	UJ165220	ELECTROLYTIC CAP	ケミコン	C80,91		
	UH066470	ELECTROLYTIC CAP	ケミコン	C149,126,128		
	UH138470	ELECTROLYTIC CAP	ケミコン	C136		
	UH139100	ELECTROLYTIC CAP	ケミコン	C18,19,38		
	VJ016200	ELECTROLYTIC CAP	ケミコン	C119		
	VJ016400	ELECTROLYTIC CAP	ケミコン	C120		
	VE392500	ELECTROLYTIC CAP	ケミコン	C43,46		

*New Parts (新規部品)

ランク : Japan only

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	VE394200	ELECTROLYTIC CAP	10uF 25V	ケミコン	C22-33,53,58,142,143	
	VG288900	ELECTROLYTIC CAP	100uF 25V	ケミコン	C49,52,54,57,96,101	
	VG286600	ELECTROLYTIC CAP	1000uF 6.3V	ケミコン	C61,62	
	VG290200	ELECTROLYTIC CAP	0.33uF 50V	ケミコン	C66,68	
	VG290500	ELECTROLYTIC CAP	1uF 50V	ケミコン	C84,87	
	VG290700	ELECTROLYTIC CAP	3.3uF 50V	ケミコン	C67,69	
	VG290900	ELECTROLYTIC CAP	10uF 50V	ケミコン	C74,79	
	VE018300	ELECTROLYTIC CAP	10uF 25V	ケミコン	C140,141,144,145	
	VC780700	ELECTROLYTIC CAP	1000uF 25V	ケミコン	C104,105	
	VG802500	ELECTROLYTIC CAP	4700uF 50V	ケミコン	C133,134	
	UK166100	ELECTROLYTIC CAP	1uF 50V	B P ケミコン	C48,34,35,154-157	
	FI414100	CERAMIC CAP	0.01uF	スパークキラーコン	C147	
	VB170100	ELECTROLYTIC CAP	4.7mF 5.5V	バックアップケミコン	C123	
	VI531500	ELECTROLYTIC CAP	330uF 6.3V	ケミコン	C113,114	
	VI534000	ELECTROLYTIC CAP	33uF 25V	ケミコン	C127	
	VI534100	ELECTROLYTIC CAP	47uF 25V	ケミコン	C137,138	
	VI912500	ELECTROLYTIC CAP	10uF 25V	ケミコン	C20,21,40,41,112,115	
	VB056900	COIL	220uH	コイル	L1,2	
	VA983500	COIL	15uH	コイル	L3,4	G
	HV453100	FLAME PROOF CARBON RESISTOR	1Ω 1/4W	不燃化カーボン抵抗	R291,298	
	HV453470	FLAME PROOF CARBON RESISTOR	4.7Ω 1/4W	不燃化カーボン抵抗	R245,246,255,256	
	HV453220	FLAME PROOF CARBON RESISTOR	2.2Ω 1/4W	不燃化カーボン抵抗	R320,321	U
	HV454220	FLAME PROOF CARBON RESISTOR	22Ω 1/4W	不燃化カーボン抵抗	R132,197,198,235,258	
	HV454330	FLAME PROOF CARBON RESISTOR	33Ω 1/4W	不燃化カーボン抵抗	R92,319	
	HV454390	FLAME PROOF CARBON RESISTOR	39Ω 1/4W	不燃化カーボン抵抗	R194	
	HV455100	FLAME PROOF CARBON RESISTOR	100Ω 1/4W	不燃化カーボン抵抗	R211,232	
	HV456470	FLAME PROOF CARBON RESISTOR	4.7KΩ 1/4W	不燃化カーボン抵抗	R322,323	U
	HU574100	METAL FILM RESISTOR	10Ω 1/4W	金属皮膜抵抗	R248,251,252,270,281,282,284,285	
	HU574470	METAL FILM RESISTOR	47Ω 1/4W	金属皮膜抵抗	R150,155,202,297	
	HU574560	METAL FILM RESISTOR	56Ω 1/4W	金属皮膜抵抗	R137,142	
	HU574680	METAL FILM RESISTOR	68Ω 1/4W	金属皮膜抵抗	R23,24,247,257	
	HU574820	METAL FILM RESISTOR	82Ω 1/4W	金属皮膜抵抗	R21,22	
	HU575100	METAL FILM RESISTOR	100Ω 1/4W	金属皮膜抵抗	R149,152,154,157	
	HU575120	METAL FILM RESISTOR	120Ω 1/4W	金属皮膜抵抗	R67,69,103,107,118,	
	HU575180	METAL FILM RESISTOR	180Ω 1/4W	金属皮膜抵抗	125,162,171	
	HU575220	METAL FILM RESISTOR	220Ω 1/4W	金属皮膜抵抗	R101,108	
	HU575330	METAL FILM RESISTOR	330Ω 1/4W	金属皮膜抵抗	R126,131,209,210,225,227,301,302,1-6,11-14	
	HU575220	METAL FILM RESISTOR	220Ω 1/4W	金属被膜抵抗	144,161,172	
	HU576220	METAL FILM RESISTOR	2.2KΩ 1/4W	金属被膜抵抗	R136,143	U,C,R,A,B
	HU575470	METAL FILM RESISTOR	470Ω 1/4W	金属皮膜抵抗	R136,143	G
	HU575560	METAL FILM RESISTOR	560Ω 1/4W	金属皮膜抵抗	R102,106,119,123	
	HU575680	METAL FILM RESISTOR	680Ω 1/4W	金属皮膜抵抗	R151,153	
	HU576100	METAL FILM RESISTOR	1KΩ 1/4W	金属被膜抵抗	R203,205	
	HU576100	METAL FILM RESISTOR	1KΩ 1/4W	金属皮膜抵抗	R312,313	G
	HU576100	METAL FILM RESISTOR	1KΩ 1/4W	金属皮膜抵抗	R19,20,57,58,99,100,109,110,202,204,234,241,259,275,147,158,	

*New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	HU576100	METAL FILM RESISTOR	1K Ω	金属皮膜抵抗	R310, 314-317	
	HU576120	METAL FILM RESISTOR	1.2K Ω 1/4W	金属皮膜抵抗	R273, 195	
	HU576150	METAL FILM RESISTOR	1.5K Ω 1/4W	金属皮膜抵抗		
	HU576180	METAL FILM RESISTOR	1.8K Ω 1/4W	金属皮膜抵抗	R133, 134, 145, 146	
	HU576200	METAL FILM RESISTOR	2K Ω 1/4W	金属皮膜抵抗	R223, 228, 303, 304	
	HU576220	METAL FILM RESISTOR	2.2K Ω 1/4W	金属皮膜抵抗	R37, 42, 51, 238, 243, 264, 265, 271, 272, 293, 295, 56	
	HU576270	METAL FILM RESISTOR	2.7K Ω 1/4W	金属皮膜抵抗	R163, 169	
	HU576330	METAL FILM RESISTOR	3.3K Ω 1/4W	金属皮膜抵抗	R139, 140, 186, 188, 189, 191, 277	
	HU576270	METAL FILM RESISTOR	2.7K Ω 1/4W	金属皮膜抵抗	R269	U C, R, A, B, G
	HU576470	METAL FILM RESISTOR	4.7K Ω 1/4W	金属皮膜抵抗	R269	
	HU576470	METAL FILM RESISTOR	4.7K Ω 1/4W	金属皮膜抵抗	R70, 73, 74, 77, 78, 81, 82, 85, 86, 89, 159, 160, 192, 193, 196, 201, 206-208,	
	HU576510	METAL FILM RESISTOR	5.1K Ω 1/4W	金属皮膜抵抗	219, 268, 274, 289	
	HU576680	METAL FILM RESISTOR	6.8K Ω 1/4W	金属皮膜抵抗	R166, 167	
	HU576820	METAL FILM RESISTOR	8.2K Ω 1/4W	金属皮膜抵抗	R148, 156, 267	
	HU576910	METAL FILM RESISTOR	9.1K Ω 1/4W	金属皮膜抵抗	R242, 250, 253, 290	
	HU577100	METAL FILM RESISTOR	10K Ω 1/4W	金属皮膜抵抗	R305, 306	
	HU577150	METAL FILM RESISTOR	15K Ω 1/4W	金属皮膜抵抗	R68, 177, 178, 183, 217, 218, 266, 270, 278, 287, 294, 296, 309, 300	
	HU577180	METAL FILM RESISTOR	18K Ω 1/4W	金属皮膜抵抗	R66	
	HU577220	METAL FILM RESISTOR	22K Ω 1/4W	金属皮膜抵抗	R233, 236, 249, 254, 261	
	HU577330	METAL FILM RESISTOR	33K Ω 1/4W	金属皮膜抵抗	R38, 40, 52, 54, 71, 72, 75, 76, 79, 80, 83, 84, 87, 88, 199, 200, 212, 222, 229, 239, 262	
	HU577470	METAL FILM RESISTOR	47K Ω 1/4W	金属皮膜抵抗	R164, 170	
	HU577620	METAL FILM RESISTOR	62K Ω 1/4W	金属皮膜抵抗	R138, 141, 214	
	HU577820	METAL FILM RESISTOR	82K Ω 1/4W	金属皮膜抵抗	R165, 168	
	HU578100	METAL FILM RESISTOR	100K Ω 1/4W	金属皮膜抵抗	R276	
	HU578120	METAL FILM RESISTOR	120K Ω 1/4W	金属皮膜抵抗	R8, 9, 16, 17, 25-36, 41, 43-50, 53, 55, 184, 185,	
	HU598220	METAL FILM RESISTOR	220K Ω 1/4W	金属皮膜抵抗	215, 299, 307, 308, 224, 226, 311	
	V1515500	METAL FILM RESISTOR	330K Ω 1/4W	金属皮膜抵抗	R175, 180	
	HU578470	METAL FILM RESISTOR	470K Ω 1/4W	金属皮膜抵抗	R59-64, 90, 91, 93-95, 263	
	HU579100	METAL FILM RESISTOR	1M Ω 1/4W	金属皮膜抵抗	111-113, 216, 237, 240	
	HL324820	METAL OXIDE RESISTOR	82 Ω 2W	酸化金属被膜抵抗	R127-130	
	IG069200	IC	NJM2041D-D	I C	R176, 179, 187, 190	
	IG092100	IC	H5219L OPAMP	I C	R173, 174, 181, 182	
	XA673A00	IC	NJM5532D-D	I C	R280, 283	
	IG152500	IC	BA6229	IC15	IC1-5, 11-13	
	XD524001	IC	LA7952	I C	IC9, 10	
	XG990B00	IC	LC6512A-4354	I C	IC14	
					IC6	
					IC8	

※New Parts (新規部品)

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Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
	XA540001	IC	LB1294	I C	IC7	
	VF926500	LIGHT DETECTING MODULE	GP1U501X	リモコン受光ユニット	U1	
	VG707400	PUSH SWITCH		ブッシュ SW	SW10	
	VG237400	ROTARY SWITCH	SRBU16019A	ロータリー SW	SW7	
	VF337700	PUSH SWITCH	SPUL19	ブッシュ SW	SW3-6	
	VJ004000	PUSH SWITCH		ブッシュ SW	SW2	
	VA983800	PUSH SWITCH	SPUN	ブッシュ SW	SW1	
	VE327300	PUSH SWITCH		ブッシュ SW	SW8,9	
	KB002980	FUSE	2.5A	ヒューズ	F1	G
	VD506000	RELAY	AC DG12D1-0 (H)	リレー	RY1	
	LA002580	LAPPING TERMINAL	2P I-102NB	ラッピング端子	TE1,4	
	LA002150	LAPPING TERMINAL	3P I-103NA	ラッピング端子	TE2	
	LA003870	LAPPING TERMINAL	2P L-102NE	ラッピング端子	TE3	
	LB202900	PIN JACK	T5959	ピンコネクタ	PJ1	
	LB401290	PIN JACK	T5857-A	ピンコネクタ	PJ2-5	
	VE776700	PIN JACK	T5857-AAED	ピンジャック	PJ6	
	Vi783800	PHONES JACK	M1659-AAAC	ヘッドホンジャック	JK2	
	Vi435500	MINI JACK	YKB21-5130	ミニジャック	JK1	
	LB500710	SOCKET	5P W-P5505	S T コネクターソケット	JK3	
	LB608390	SOCKET	6P W-P5506	S T コネクターソケット	JK4	
	VD004500	BASE PIN	PH 2P TE	ベースピン	CB3	
	VD004600	BASE PIN	PH 3P TE	ベースピン	CB1	
	VD004700	BASE PIN	PH 4P TE	ベースピン	CB4	
	VD005100	BASE PIN	PH 8P TE	ベースピン	CB2	
	GG000700	CERAMIC RESONATOR	400K FCR400K2H	セラミック振動子	XL1	
	VE854600	POTENTIOMETER	MN30K RK163122	二連ロータリー V R	VR3	
	VF338000	POTENTIOMETER	18K RK163122	二連ロータリー V R	VR4	
	VA984800	POTENTIOMETER	20K RKDA2A	二連ロータリー V R	VR5	
	VF990900	POTENTIOMETER	30K RK163122	二連ロータリー V R	VR2	
	Vi619200	POTENTIOMETER WITH MOTOR	60K RK18112MA	モーター付 V R	VR1	
	iA101521	TRANSISTOR	2SA1015 Y	トランジスタ	Q25,41,42,45,46,58,64,67,73	
	iA097000	TRANSISTOR	2SA970	トランジスタ	Q75	U
	iB056020	TRANSISTOR	2SB560	トランジスタ	Q51,56	
	iB094910	TRANSISTOR	2SB949 P,Q,R	トランジスタ	Q39,65	
	iC287820	TRANSISTOR	2SC2878 A,B	トランジスタ	Q1-24,35-38,50,52-55,69-71	
	iC1815C0	TRANSISTOR	2SC1815 Y	トランジスタ	Q26,40,44,60,62,63,66,68,74	
	iC1815C0	TRANSISTOR	2SC1815 Y	トランジスタ	Q76	U
	iC224000	TRANSISTOR	2SC2240 GR,BL	トランジスタ	Q47,59	
	iD043810	TRANSISTOR	2SD438	トランジスタ	Q49,57	
	iD127510	TRANSISTOR	2SD1275 P,Q,R	トランジスタ	Q61	
	iD078600	TRANSISTOR	2SD786 Q,R,S	トランジスタ	Q27-30	
	VC407900	TRANSISTOR	2SD1913 R,S	トランジスタ	Q48	
	iE102480	FET	2SK170 GR,BL	F E T	Q31-34	
	iF004600	DIODE	1SS133 T-77	ダイオード	D1,2,13-15,19-26,29,31,38-40,42-52	
	ViH801600	DIODE	1SR139-100	ダイオード	D32-37,41	
	VG437600	ZENER DIODE	MTZJ5.6A	ツェナーダイオード	D12,30	

*New Parts (新規部品)

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A

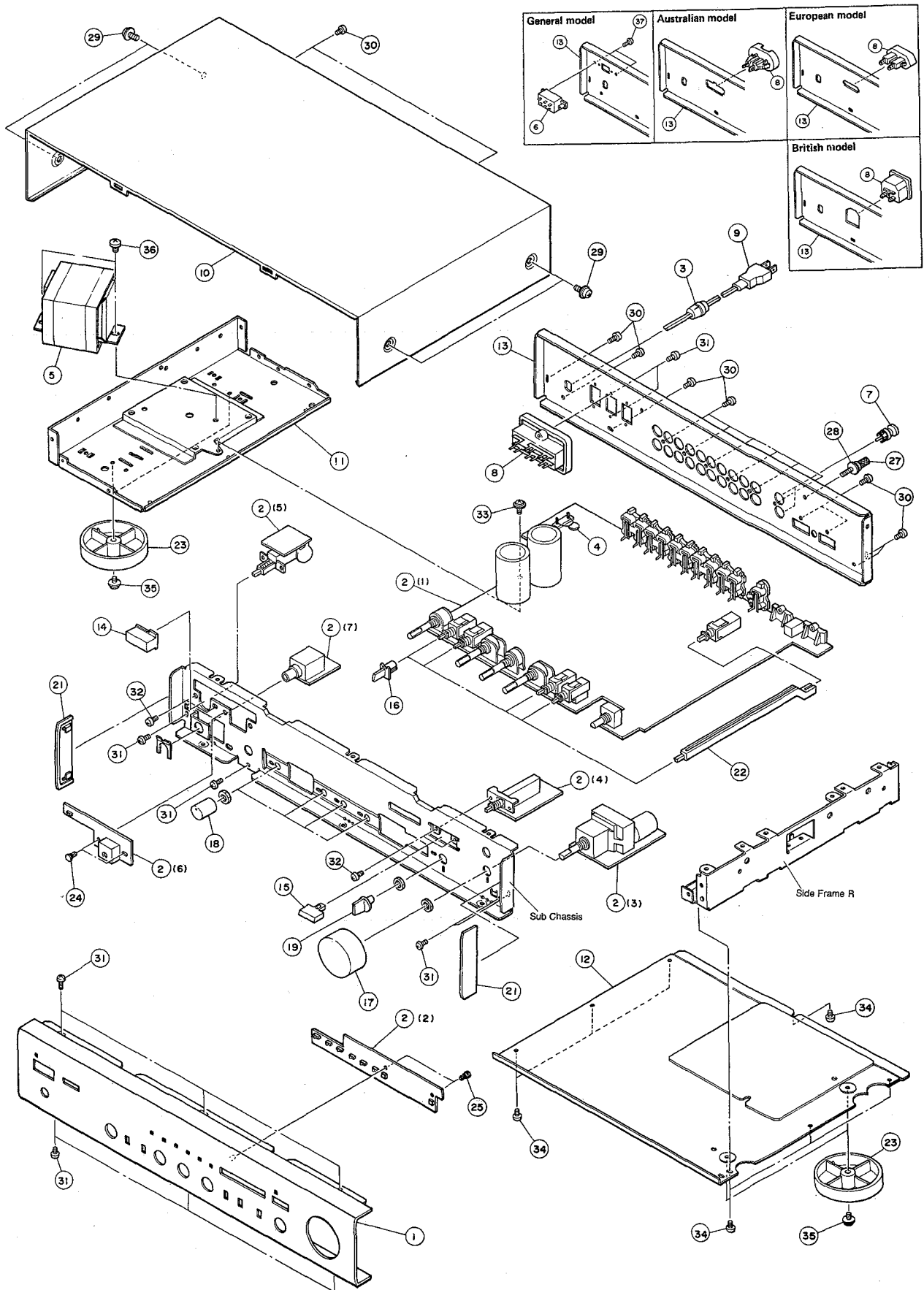
B

C

D

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EXPLODED VIEW



MECHANISM PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
01	Vi589900	PANEL UNIT	パネルユニット	BL		
01	Vi590100	PANEL UNIT	パネルユニット	T		
02	Vi590300	MAIN CIRCUIT BOARD	メインシート		C	
02	Vi590500	MAIN CIRCUIT BOARD	メインシート		A, B	
02	Vi590600	MAIN CIRCUIT BOARD	メインシート		G	
02	Vi590400	MAIN CIRCUIT BOARD	メインシート		R	
02	VJ550700	MAIN CIRCUIT BOARD	メインシート		U	
03	CB620200	CORD STOPPER	コードストッパー		U, C	
03	CB620190	CORD STOPPER	コードストッパー		R, A, B, G	
04	Fi384100	CERAMIC CAP	規格認定コン		A, B	
05	XG997A00	POWER TRANSFORMER	電源トランス		U, C	
05	XG998A00	POWER TRANSFORMER	電源トランス		R	
05	XG999A00	POWER TRANSFORMER	電源トランス		A, B	
05	XH000A00	POWER TRANSFORMER	電源トランス		G	
06	VE962600	SLIDE SWITCH	スライドSW		R	
07	LB100180	SHORT PLUG	ショートプラグ			
08	LB608160	AC OUTLET	電源コネクタ		U, C, R	
08	VCG26100	AC OUTLET	電源コネクタ		A	
08	VCG27000	AC OUTLET	電源コネクタ		B	
08	Vi783900	AC OUTLET	電源コネクタ		G	
09	MG002220	POWER CORD	電源コード		U, C	
09	VE371000	POWER CORD	電源コード		R	
09	MG002310	POWER CORD	電源コード		A	
09	MG002330	POWER CORD	電源コード		B	
09	MG002320	POWER CORD	電源コード		G	
10	Vi066000	TOP COVER	トップカバー	BL		
10	Vi066100	TOP COVER	トップカバー	T		
11	Vi447600	FRAME L	フレーム L			
12	Vi493900	BOTTOM COVER	ボトムカバー			
13	Vi066900	REAR PANEL	リヤパネル		U, C	
13	Vi067000	REAR PANEL	リヤパネル		R, P	
13	Vi067100	REAR PANEL	リヤパネル		A	
13	Vi067200	REAR PANEL	リヤパネル		B	
13	Vi067300	REAR PANEL	リヤパネル		G	
14	Vi841900	BUTTON	ボタン	BL		
14	Vi842000	BUTTON	ボタン	T		
15	Vi877000	BUTTON	ボタン	BL		
15	Vi877100	BUTTON	ボタン	T		
16	Vi210300	BUTTON	ボタン	BL		
16	Vi210200	BUTTON	ボタン	T		
17	Vi065300	KNOB	ノブ	BL		
17	Vi065400	KNOB	ノブ	T		
18	Vi889200	KNOB	ノブ	BL		
18	Vi889300	KNOB	ノブ	T		
19	Vi251000	KNOB	ノブ	BL		
19	Vi251100	KNOB	ノブ	T		
20	Vi922500	SHEET ISOLATION	シートアイソレーション			
21	Vi068400	SIDE COVER	サイドカバー	BL		
21	Vi068500	SIDE COVER	サイドカバー	T		
22	CB651340	ROD	ロッド			

*New Parts (新規部品)

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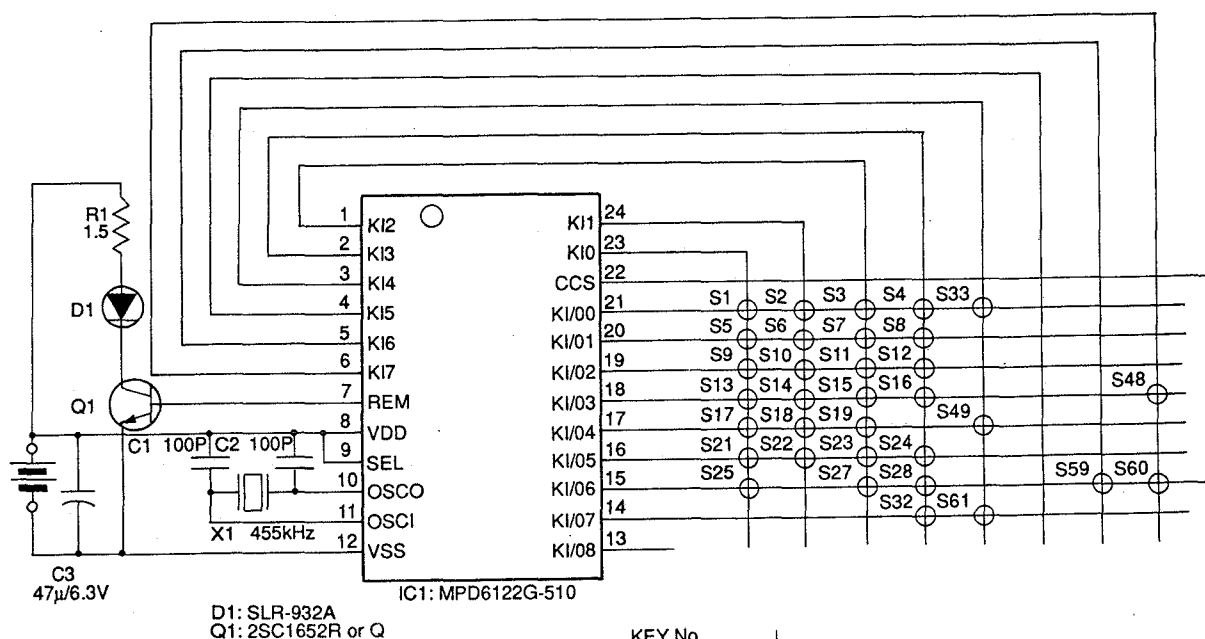
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Ref. NO.	PART NO.	Description		部 品 名	Remarks	Markets	ランク
23	VF639400	LEG		レッグ	BL		
23	VI031600	LEG		レッグ	T		
24	CB605620	PLASTIC RIVET	NO.1057	ブラリベット			
25	CB068880	PLASTIC RIVET	#1027	ブラリベット			
26	CB069251	BINDING TIE	BK-1	束線止め			
27	AA627310	GROUND TERMINAL		GNDターミナル			
28	EX600870	PLAIN WASHER	3.6x10x0.8 FNM3-3G	平座金みがき丸			
29	EX601080	CUP SCREW	4x8-10 FCM3-BL	カップネジ	BL		
29	EX601150	BW HEAD S-TYTE SCREW	4x8-10 FNM3-BL	BWヘッドSタイトネジ	T		
30	EZ000460	BIND HEAD BONDING TAP. SCREW	3x8 FCM3-BL	ボンディングタッピング			
31	E1330086	BINDING HEAD TAPPING SCREW	3x8 FCRM3-BL	バインドタッピングネジ			
32	ED330066	BINDING HEAD SCREW	3x6 FCRM3-BL	バインド小ネジ			
33	EX600240	BW HEAD TAPPING SCREW	3x8 FCM3-BL	BWヘッドタッピングネジ			
34	E1330086	BINDING HEAD TAPPING SCREW	3x6 FCRM3-BL	バインドタッピングネジ			
35	EK336020	BW HEAD TAPPING SCREW	3x6 FCM3-BL	BWヘッドタッピングネジ			
36	E1340086	BINDING HEAD TAPPING SCREW	4x8 FCRM3-BL	バインドタッピングネジ		R,P	
37	EJ326086	PAN HEAD TAPPING SCREW	2.6x8 ZMC2-BL	ナベタッピングネジ			
		ACCESSORIES		付属品			
	V1467600	REMOTE CONTROL TRANSMITTER	RS-CX630	トランスミッター			
	CX613770	LID		電池蓋			
		DRY CELL	UM-4, R03, AAA	マンガン電池			
	VE914600	ACCESSORIES ASSY		付属品ASSY			
	M1066210	PIN CORD	1.2M	出力コード			
	VA945800	CONNECTOR	500MM	ハーネス			
	VA945900	CONNECTOR	500MM	ハーネス			
	M1081780	CORD WITH MINI-PLUG	1.2M	ミニプラグコード			

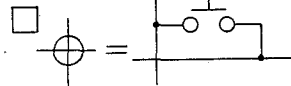
*New Parts (新規部品)

ランク : Japan only

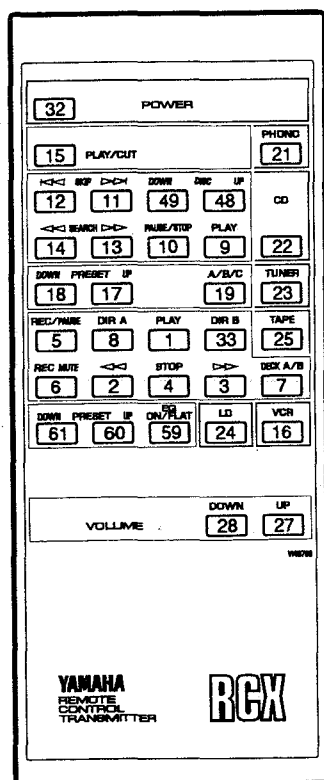
• European, British, Australian and General models



KEY No.



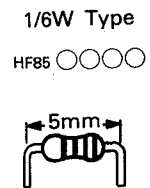
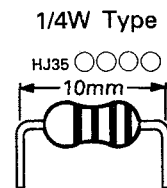
C0 C1 C2 C3 C4 C5 C6 C7
CUSTOM CODE : 0 1 0 1 1 1 1 0



KEY No.	DATA CODE							FUNCTION
	D0	D1	D2	D3	D4	D5	D6	
1	0	0	0	0	0	0	0	PLAY (TAPE)
2	1	0	0	0	0	0	0	◀◀ (TAPE)
3	0	1	0	0	0	0	0	▶▶ (TAPE)
4	1	1	0	0	0	0	0	STOP (TAPE)
5	0	0	1	0	0	0	0	REC/PAUSE (TAPE)
6	1	0	1	0	0	0	0	REC MUTE (TAPE)
7	0	1	1	0	0	0	0	DECK A/B (TAPE)
8	1	1	1	0	0	0	0	DIR A (TAPE)
9	0	0	0	1	0	0	0	PLAY (CD)
10	1	0	0	1	0	0	0	PAUSE/STOP (CD)
11	0	1	0	1	0	0	0	SKIP ▶▶ (CD)
12	1	1	0	1	0	0	0	SKIP ◀◀ (CD)
13	0	0	1	1	0	0	0	SEARCH ▶▶ (CD)
14	1	0	1	1	0	0	0	SEARCH ◀◀ (CD)
15	0	1	1	1	0	0	0	PLAY/CUT (PHONO)
16	1	1	1	1	0	0	0	VCR
17	0	0	0	0	1	0	0	PRESET UP (TUNER)
18	1	0	0	0	1	0	0	PRESET DOWN (TUNER)
19	0	1	0	0	1	0	0	A/B/C (TUNER)
21	0	0	1	0	1	0	0	PHONO
22	1	0	1	0	1	0	0	CD
23	0	1	1	0	1	0	0	TUNER
24	1	1	1	0	1	0	0	LD
25	0	0	0	1	1	0	0	TAPE 1
27	0	1	0	1	1	0	0	VOLUME UP
28	1	1	0	1	1	0	0	VOLUME DOWN
32	1	1	1	1	1	0	0	POWER
33	0	0	0	0	0	1	0	DIR B (TAPE)
48	1	1	1	1	0	0	1	DISK UP (CD)
49	0	0	0	0	1	0	1	DISK DOWN (CD)
59	0	1	0	1	1	0	1	ON/FLAT (EQ)
60	1	1	0	1	1	0	1	PRESET UP (EQ)
61	0	0	1	1	1	0	1	PRESET DOWN (EQ)

Parts List for Carbon Resistors

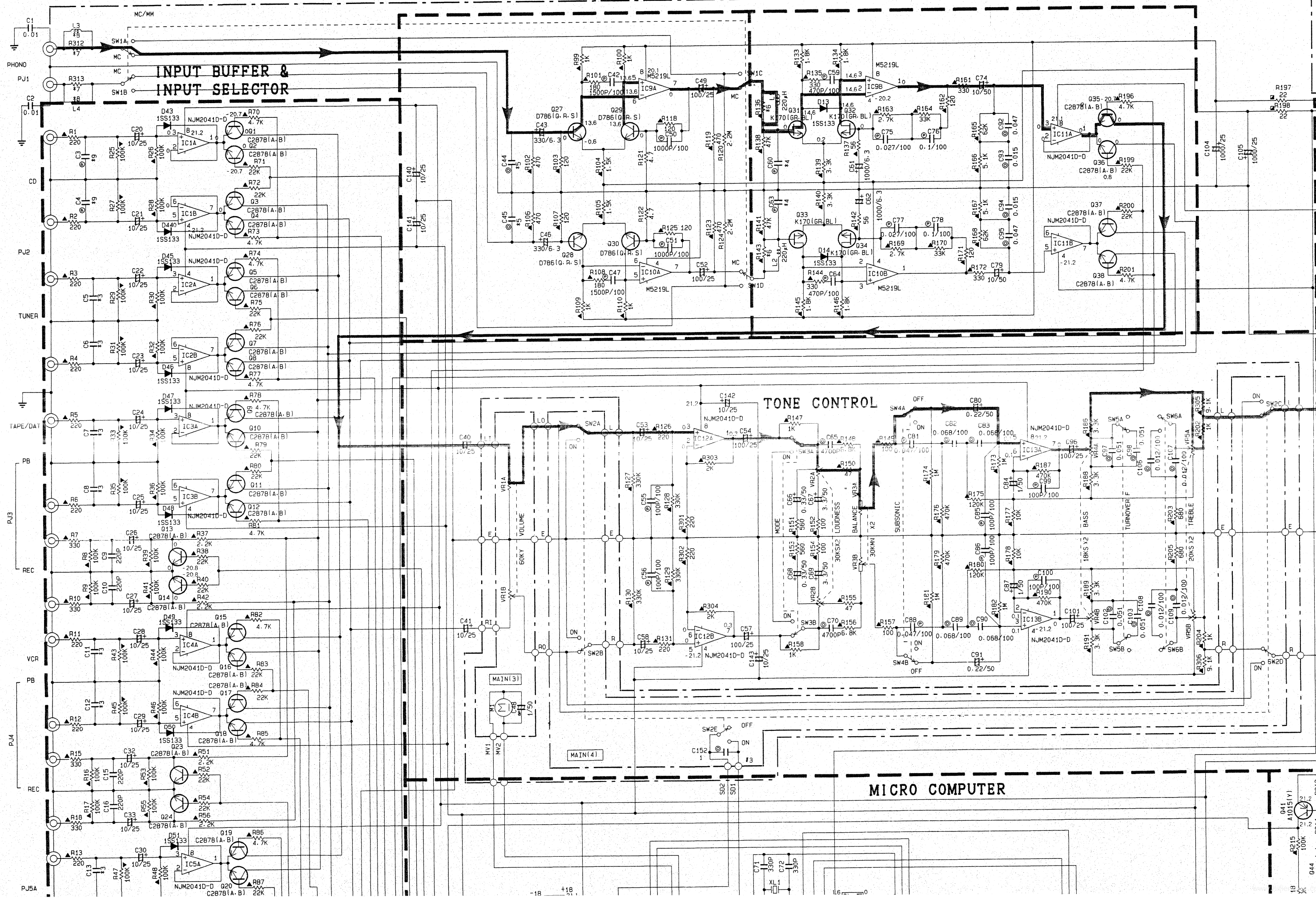
Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0Ω	HJ35 3100	※	12KΩ	HJ35 7120	HF85 7120
1.8Ω	HJ35 3180	※	15Ω	HJ35 7150	HF85 7150
2.2Ω	HJ35 3220	HF85 3220	18Ω	HJ35 7180	HF85 7180
3.3Ω	HJ35 3330	HF85 3330	22Ω	HJ35 7220	HF85 7220
4.7Ω	HJ35 3470	HF85 3470	27Ω	HJ35 7270	HF85 7270
5.6Ω	HJ35 3560	HF85 3560	33Ω	HJ35 7330	HF85 7330
10Ω	HJ35 4100	HF85 4100	39Ω	HJ35 7390	HF85 7390
15Ω	HJ35 4150	HF85 4150	47Ω	HJ35 7470	HF85 7470
22Ω	HJ35 4220	HF85 4220	56Ω	HJ35 7560	HF85 7560
27Ω	HJ35 4270	HF85 4270	68Ω	HJ35 7680	HF85 7680
33Ω	HJ35 4330	HF85 4330	82Ω	HJ35 7820	HF85 7820
39Ω	HJ35 4390	HF85 4390	91Ω	HJ35 7910	HF85 7910
47Ω	HJ35 4470	HF85 4470	100Ω	HJ35 8100	HF85 8100
56Ω	HJ35 4560	HF85 4560	120Ω	HJ35 8120	HF85 8120
68Ω	HJ35 4680	HF85 4680	150Ω	HJ35 8150	HF85 8150
82Ω	HJ35 4820	HF85 4820	180Ω	HJ35 8180	HF85 8180
100Ω	HJ35 5100	HF85 5100	220Ω	HJ35 8220	HF85 8220
110Ω	HJ35 5110	HF85 5100	270Ω	HJ35 8270	HF85 8270
120Ω	HJ35 5120	HF85 5120	330Ω	HJ35 8330	HF85 8330
150Ω	HJ35 5150	HF85 5150	390Ω	HJ35 8390	HF85 8390
160Ω	HJ35 5160	※	470Ω	HJ35 8470	HF85 8470
180Ω	HJ35 5180	HF85 5180	560Ω	HJ35 8560	HF85 8560
220Ω	HJ35 5220	HF85 5220	680Ω	HJ35 8680	HF85 8680
270Ω	HJ35 5270	HF85 5270	820Ω	HJ35 8820	HF85 8820
330Ω	HJ35 5330	HF85 5330	1.0MΩ	HJ35 9100	HF85 9100
390Ω	HJ35 5390	HF85 5390	1.2Ω	HJ35 9120	※
470Ω	HJ35 5470	HF85 5470	1.5Ω	HJ35 9150	HF85 9150
510Ω	※	HF85 5510	1.8Ω	HJ35 9180	HF85 9180
560Ω	HJ35 5560	HF85 5560	2.2Ω	HJ35 9220	HF85 9220
680Ω	HJ35 5680	HF85 5680	3.3Ω	HJ35 9330	HF85 9330
820Ω	HJ35 5820	HF85 5820	3.9Ω	HJ35 9390	※
910Ω	HJ35 5910	HF85 5910	4.7Ω	HJ35 9470	※
1.0KΩ	HJ35 6100	HF85 6100			
1.2Ω	HJ35 6120	HF85 6120			
1.5Ω	HJ35 6150	HF85 6150			
1.8Ω	HJ35 6180	HF85 6180			
2.0Ω	HJ35 6200	HF85 6200			
2.2Ω	HJ35 6220	HF85 6220			
2.4Ω	HJ35 6240	HF85 6240			
2.7Ω	HJ35 6270	HF85 6270			
3.0Ω	HJ35 6300	HF85 6300			
3.3Ω	HJ35 6330	HF85 6330			
3.6Ω	HJ35 6360	HF85 6360			
3.9Ω	HJ35 6390	HF85 6390			
4.7Ω	HJ35 6470	HF85 6470			
5.1Ω	HJ35 6510	HF85 6510			
5.6Ω	HJ35 6560	HF85 6560			
6.8Ω	HJ35 6680	HF85 6680			
8.2Ω	HJ35 6820	HF85 6820			
9.1Ω	HJ35 6910	HF85 6910			
10Ω	HJ35 7100	HF85 7100			

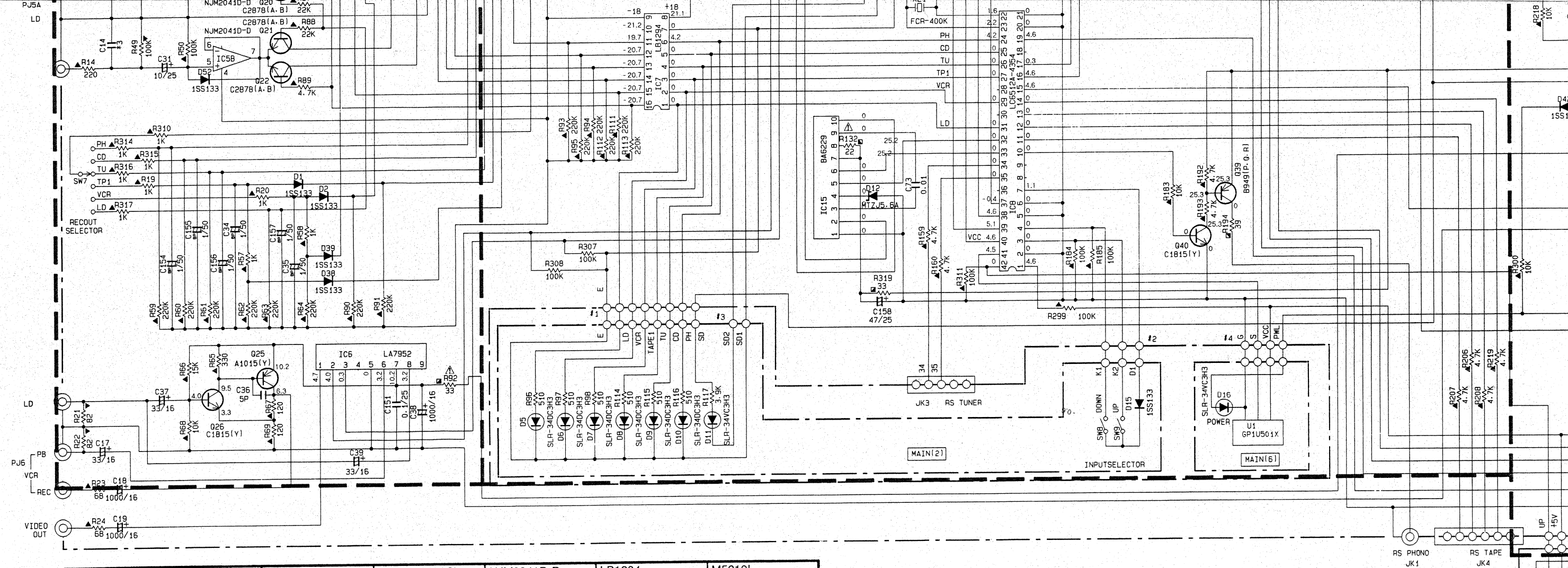


SCHEMATIC DIAGRAM

MC HEAD AMP.

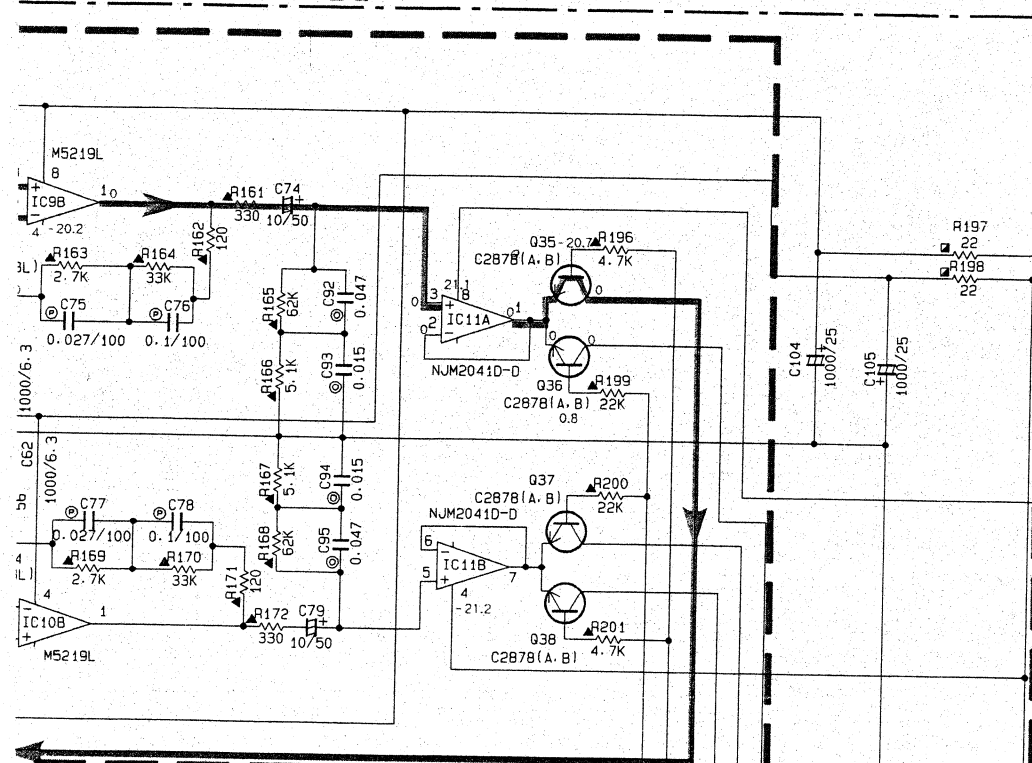
PHONO EQ





2SA1015(Y) 2SB560(E, F) 2SC2878(A, B) 2SC1815(Y) 2SD438(E, F) 2SD786(Q, R, S)	2SB949(P, Q, R) 2SD1275(P, Q, R)	2SD1913(R, S)	NJM2041D-D NJM5532D-D	LB1294	M5219L
1SS133 1SR139-100T62 MTZJ3.6A MTZJ5.6A MTZJ6.2B MTZJ12C	SLR-34VC3H3 SLR-34DC3H3	2SK170(GR, BL)	LA7952	LC6512A-4264	BA6229

PHONO EQ



RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
○	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

RESISTOR

REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METAL FILM RESISTOR
⊠	METAL PLATE RESISTOR
■	FIRE PROOF CARBON FILM RESISTOR
□	CEMENT MOLDED RESISTOR
○	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

NOTICE

(J)..... Japanese model
 (U)..... U.S.A model
 (C)..... Canadian model
 (A)..... Australian model
 (G)..... European model
 (B)..... British model
 (R)..... General model
 (P)..... AP model

LINE OUT BUFFER

POWER SUPPLY & MUTING CONTROL

MICRO COMPUTER

LAST NO.	
C	160
R	323
Q	76
D	56
IC	15

	U	C.R.A.B	G
*1			
*2			
*3	C5-B.11-14	220P	270P
*4	C60.63	220P/100	330P/100
*5	C44.45	0.01	0.018
*6	R136.143	220	2.2K
*7	R312.313	OPEN	1K
*8	L3.4	SHORT	15μH
*9	C3.4	220P/100 or 220P/400	270P/100
*10	R320.321	2.2	SHORT
*11	R322.323	4.7K	OPEN
*12	R269	2.7K	4.7K
*13	G75	A970	OPEN
*14	Q76	C1815(Y)	OPEN
*15	D28	MTZJ3.6B	MTZJ6.2B
*16			

II CRO COMPUTER

