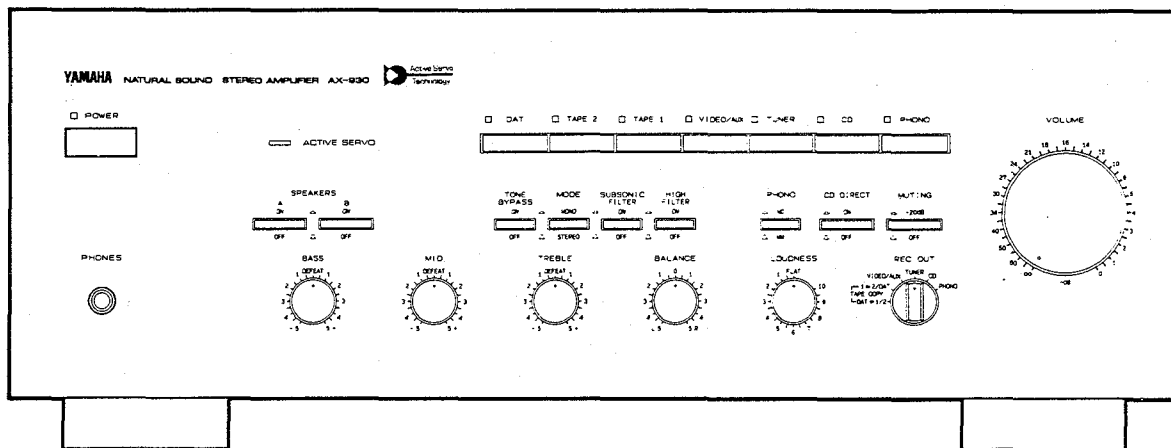


STEREO INTEGRATED AMPLIFIER

AX-930

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.

CONTENTS

TO SERVICE PERSONNEL	1	ADJUSTMENTS	5
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BLOCK DIAGRAM	4	SCHEMATIC DIAGRAM	14,15
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100300

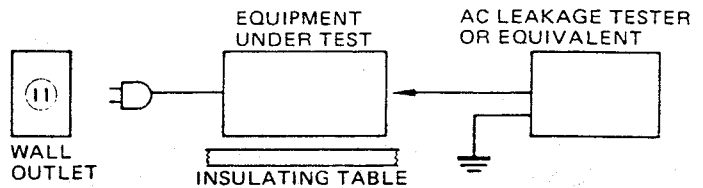
YAMAHA
YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

3.2K-103 © Printed in Japan '89.10

AX-930

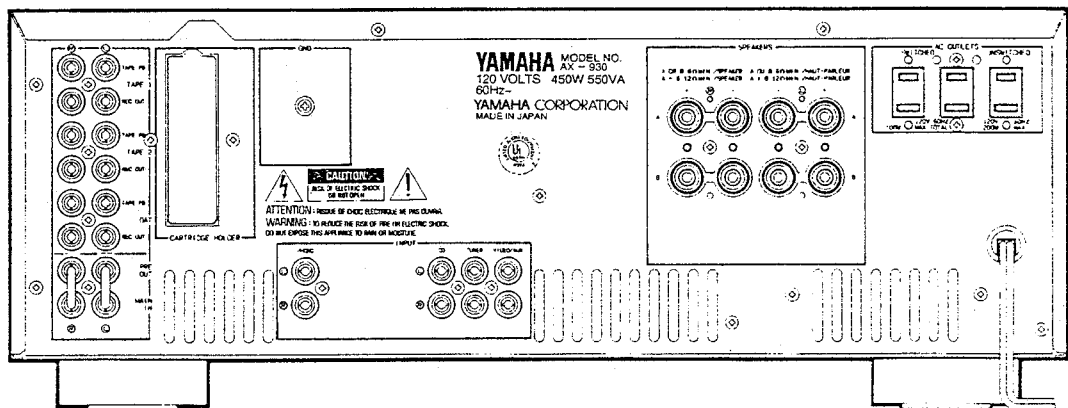
TO SERVICE PERSONNEL

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.

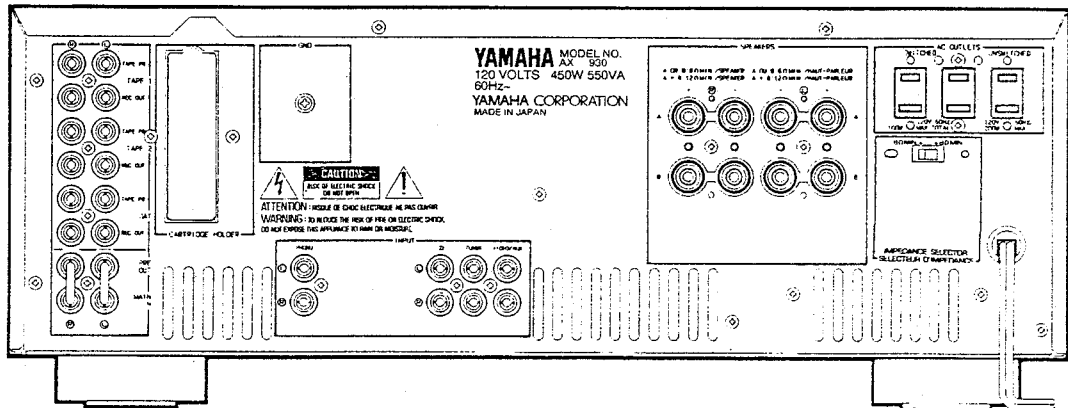


REAR PANELS

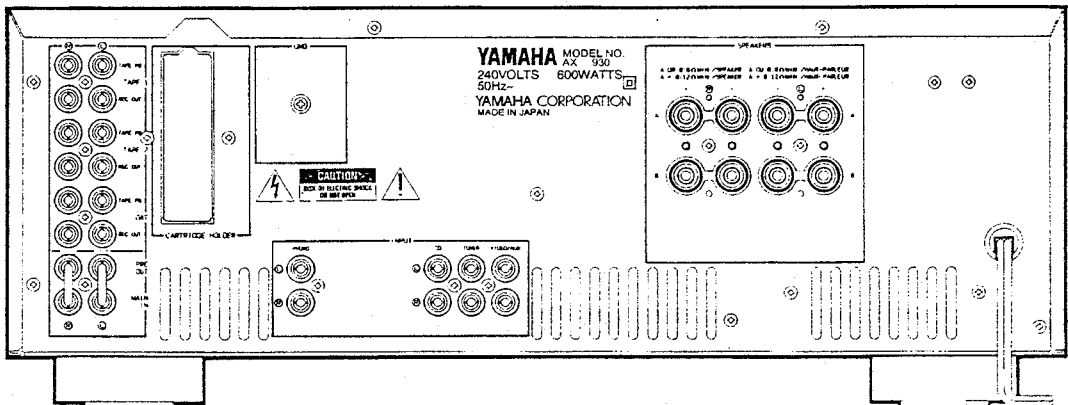
U.S.A model



Canadian model



Australian & British models



SPECIFICATIONS

Minimum RMS Output Power Per Channel
 20 Hz - 20 kHz 0.005% THD 8Ω 130W
 0.008% THD 6Ω 150W

Dynamic Power Per Channel
 (by IHF Dynamic Headroom Measuring Method)
 8Ω/6Ω/4Ω/2Ω 190W/240W/300W/400W

DIN Standard Output Power Per Channel
 (European model)
 1 kHz 1% THD 4Ω 200W

Dynamic Headroom (U.S.A., Canadian and General models)
 8Ω 1.65 dB
 6Ω 2.04 dB

IEC Power (European model)
 1 kHz 0.01% THD 8Ω 145W
 6Ω 165W

Power Bandwidth
 0.03% THD 65W 8Ω 10 Hz - 50 kHz

Damping Factor
 1 kHz 8Ω 500

Input Sensitivity/Impedance
 Phono MC 160 μV 220Ω
 MM 2.5 mV/47 kΩ
 CD/TUNER/VIDEO · AUX/TAPE
 150 mV/50 kΩ
 MAIN IN 1V/20 kΩ

Input Sensitivity (New IHF) (U.S.A., Canadian and General models)
 Phono MC 18.5 μV
 MM 0.27 mV
 CD/VIDEO · AUX/TUNER/TAPE 16 mV

Maximum Input Signal 1 kHz
 0.01% THD Phono MC 10.5 mV
 MM 155 mV

Output Level/Impedance
 REC OUT 150 mV 470Ω
 PRE OUT 1V/1kΩ

Maximum Voltage Output
 20 Hz - 20 kHz 0.01% THD 8.5V

Headphone Jack Rated Output/Impedance
 0.005% THD RL=8Ω 0.45V/120Ω

Frequency Response
 CD/TUNER/VIDEO · AUX/TAPE
 20 Hz - 20 kHz, 0±0.5 dB
 MAIN IN 20 Hz - 20 kHz, 0±0.5 dB

RIAA Equalization Deviation
 20 Hz - 20 kHz, ±0.3 dB
 Phono MC ±0.2 dB
 MM ±0.2 dB
 20 Hz - 100 kHz ±0.5 dB

Total Harmonic Distortion 20 Hz - 20 kHz
 Phono MC to PRE OUT, 3V 0.005%
 MM to PRE OUT, 3V 0.003%
 CD/TUNER/VIDEO · AUX/TAPE to Pre Out, 3V 0.003%
 CD/TUNER/VIDEO · AUX/TAPE to Sp Out, 0.003%
 65W/8Ω 0.005%
 MAIN IN to Sp Out, 65W/8Ω 0.005%

Intermodulation Distortion
 CD/TUNER/VIDEO · AUX/TAPE
 Rated Output/8Ω 0.002%
 1W/8Ω 0.003%

Signal-to-Noise Ratio (IHF-A Network)
 Phono MC (500 μV Input Shorted) 78 dB
 MM (5 mV Input Shorted) 93 dB
 CD/TUNER/VIDEO · AUX/TAPE (Shorted) 106 dB
 MAIN IN (Shorted) 114 dB

Signal-to-Noise Ratio (New IHF)
 Phono MC 75.5 dB
 MM 75.5 dB
 CD/VIDEO · AUX/TUNER/TAPE 86 dB

Residual Noise (IHF-A Network) 140 μV

Channel Separation Vol - 30 dB
 Phono MC, MM input shorted
 1 kHz/10 kHz 75 dB/60 dB
 CD/TUNER/VIDEO · AUX/TAPE
 Input 5.1 kΩ
 Terminated 1 kHz/10 kHz 75 dB/60 dB

Tone Control Characteristics

Bass
 Boost / Cut ±10 dB (20 Hz)
 Turnover frequency 350 Hz

Treble
 Boost / Cut ±10 dB (20 kHz)
 Turnover frequency 3.5 kHz

Mid (930 only)
 Control range ±10 dB (1 kHz)
 Center frequency 1 kHz

Filter Characteristics

Subsonic 15 Hz, 18 dB/oct
 High (930 only) 10 Hz, 12 dB/oct

Continuous Loudness Control (Level Related Equalization)

Attenuation -40dB (1 kHz)

Audio Muting

..... -20 dB

Gain Tracking Error

(0 - -60 dB) 2 dB

Power Supply

U.S.A. and Canadian model .. AC 120V/60 Hz
 British and Australian models AC 240V/50 Hz
 European model AC 220V/50 Hz
 General model AC 110/120/220/240V 60/50 Hz

Power Consumption

U.S.A. and Canadian model ... 450W, 550 VA
 British and Australian models 600W
 European model 600W
 General model 250W

AC Outlets (U.S.A., Canadian and General Models)

Switched (2) 100W max.
 Unswitched (1) 200W max.

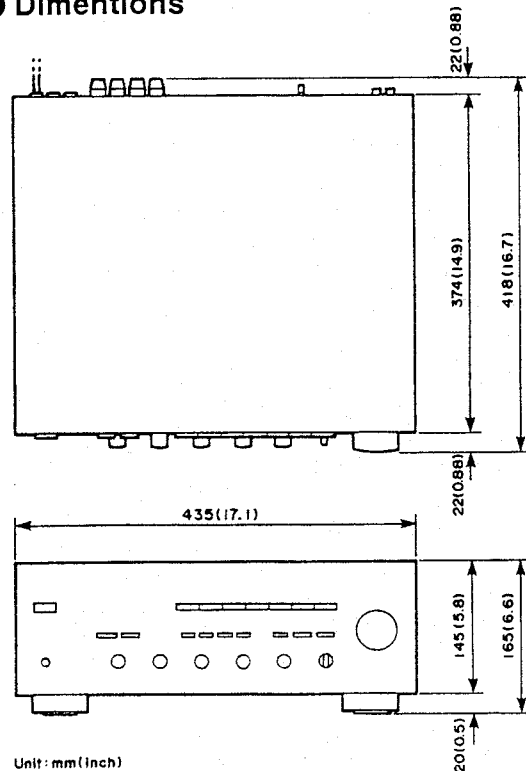
Dimensions (W x H x D) 435 x 165 x 418 mm (17-1/8" x 6-1/2" x 16-7/16")

Weight

..... 15.0 kg
 (33 lbs. 0 oz.)

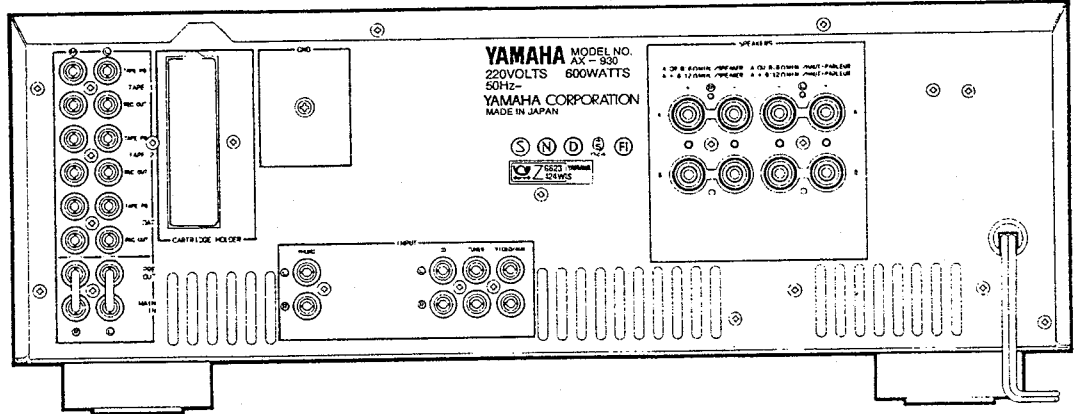
* Specifications are subject to change without notice.

Dimensions

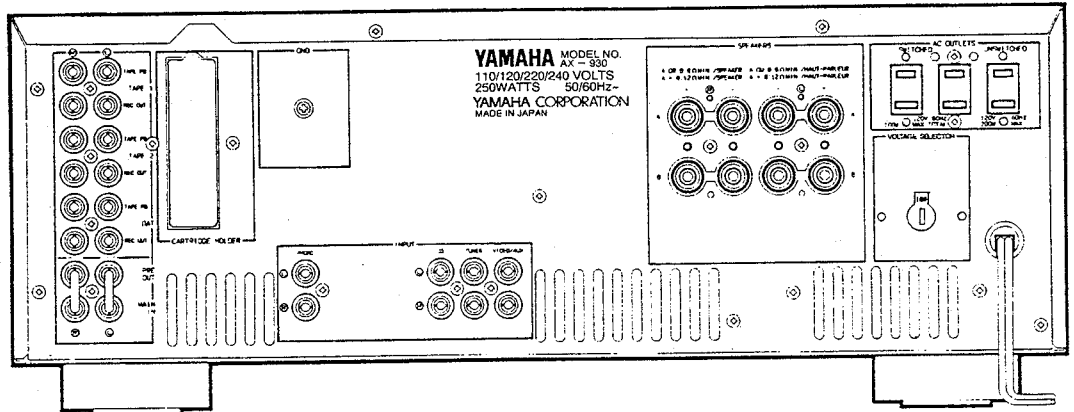


Unit: mm (inch)

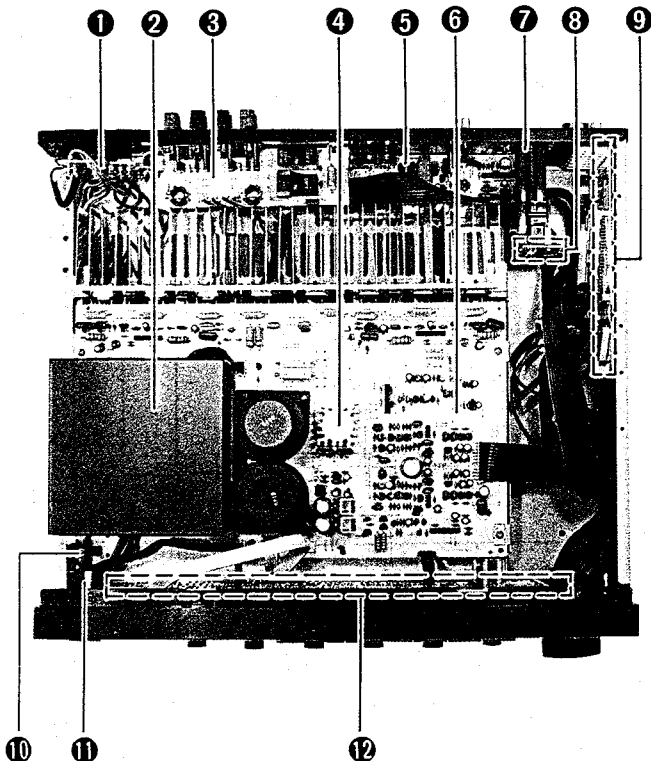
● European model



● General model



■ INTERNAL VIEW



- (U) U.S.A model
- (C) Canadian model
- (G) European model
- (A) Austrarian model
- (B) British model
- (R) General model

- ① MAIN CIRCUIT BOARD (6)
- ② POWER TRANSFORMER
- ③ MAIN CIRCUIT BOARD (3)
- ④ BRIGE DIODE
- ⑤ FUNCTION CIRCUIT BOARD (3)
- ⑥ MAIN CIRCUIT BOARD (1)
- ⑦ ROM BOX
- ⑧ MAIN CIRCUIT BOARD (2)
- ⑨ FUNCTION CIRCUIT BOARD (2)
- ⑩ FUSE
- ⑪ POWER SWITCH
- ⑫ FUNCTION CIRCUIT BOARD (1)

DISASSEMBLY PROCEDURES

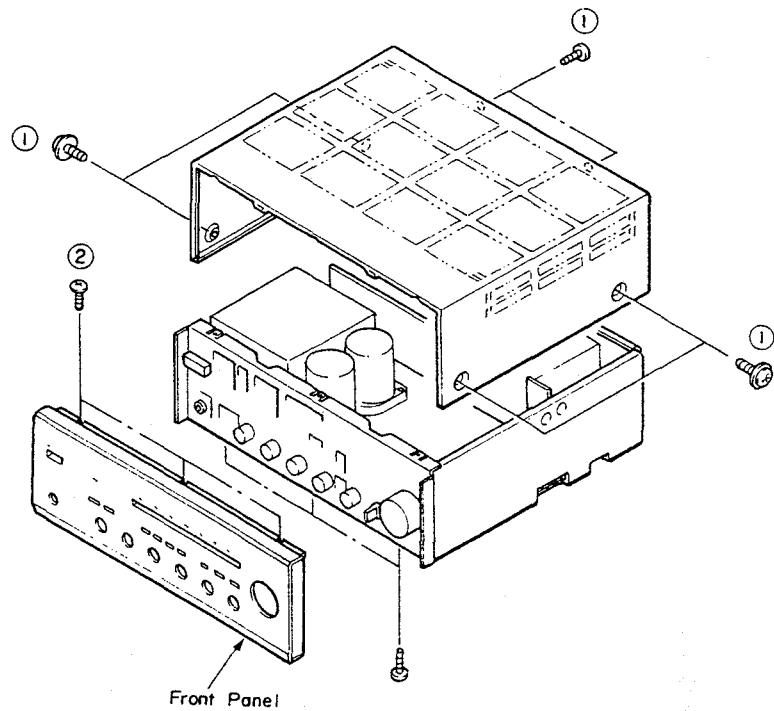
(Removal parts in disassembly order as numbered.)

1. Removal of top cover

Remove 6 screws (①).

2. Removal of front panel

Remove 6 screws (②), and pull the front panel forward.

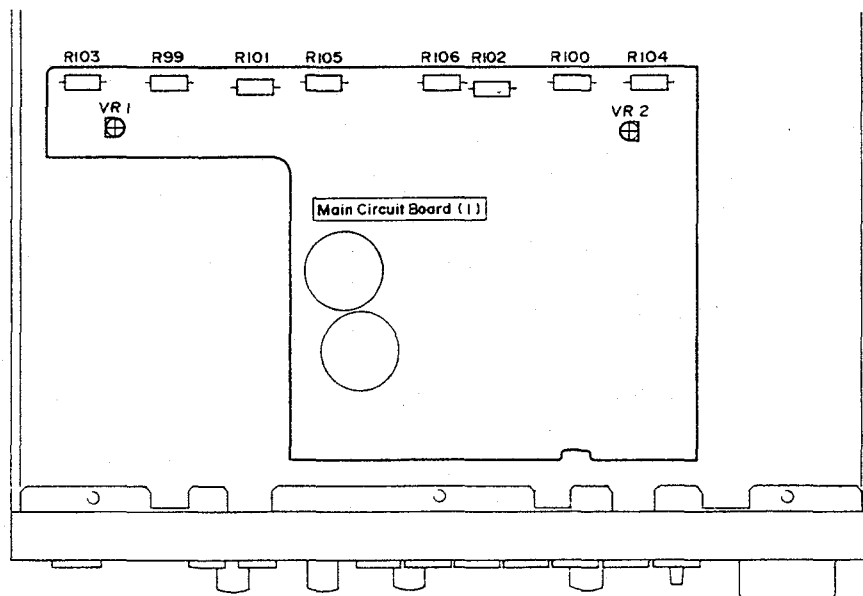


ADJUSTMENTS

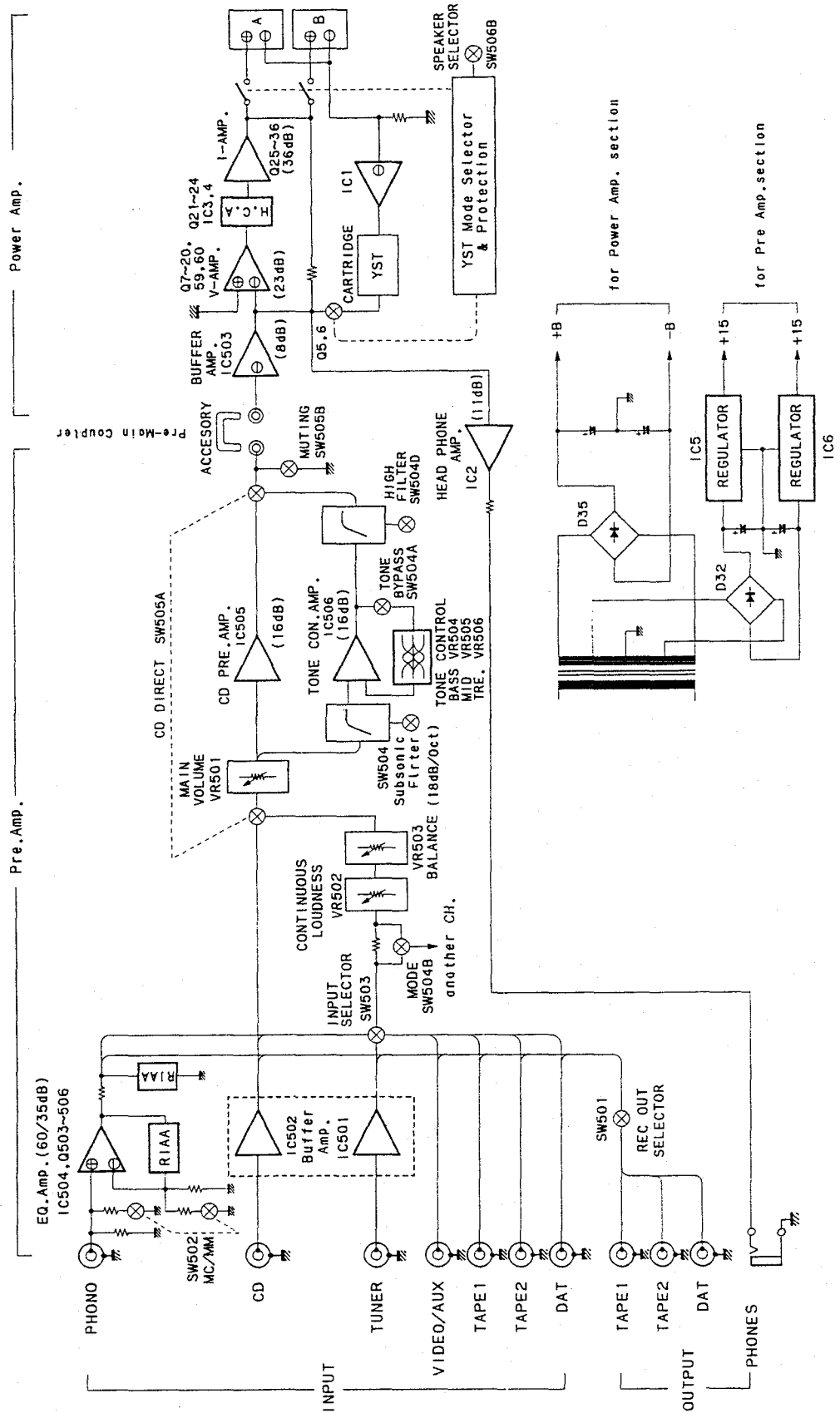
● IDLING CURRENT ADJUSTMENT

When replacing the power and drive transistors, adjust idling current. After the power has been turned on, age about 3 minutes in non loaded condition.

	Test points	Adjustment point	Rating
Lch	R99,R101,R103,R105	VR1	$10 \pm 2\text{mV}$
Rch	R100,R102,R104,R106	VR2	$10 \pm 2\text{mV}$



BLOCK DIAGRAM



PRINTED CIRCUIT BOARD(Pattern side)

1

2

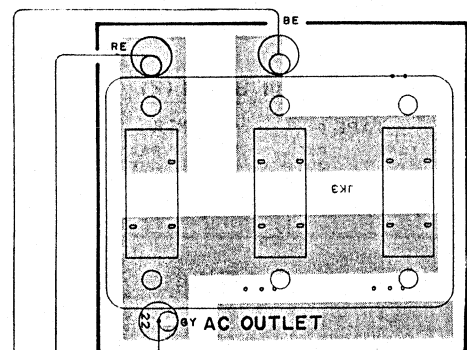
3

4

5

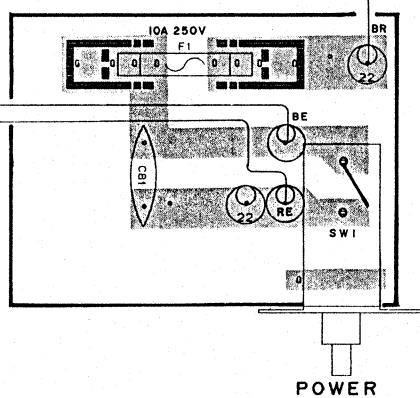
• U model

Main Circuit Board (6)



TO: TRANSFORMER

Main Circuit Board (5)



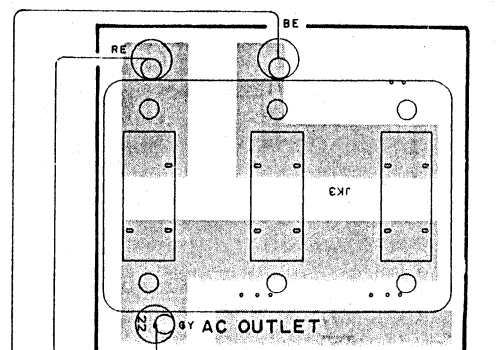
POWER

• C model

TO: MAIN (1)

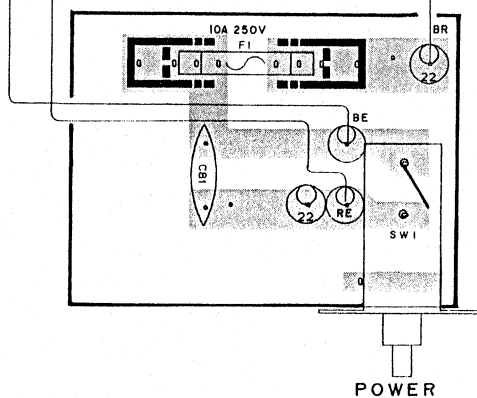
TERMINAL

Main Circuit Board (6)



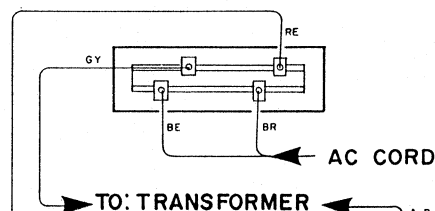
TO: TRANSFORMER

Main Circuit Board (5)



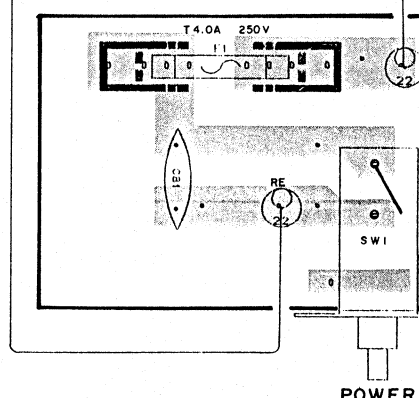
POWER

• A, B, G models



TO: TRANSFORMER

Main Circuit Board (5)

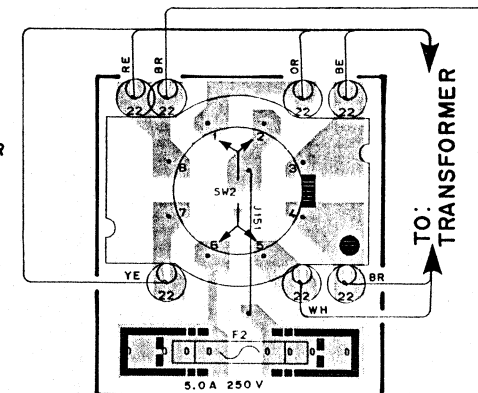


POWER

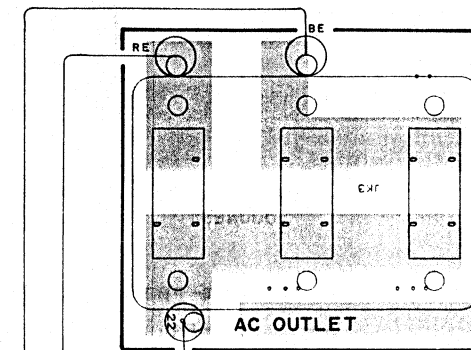
• R model

Main Circuit Board (7)

VOLTAGE SELECTOR

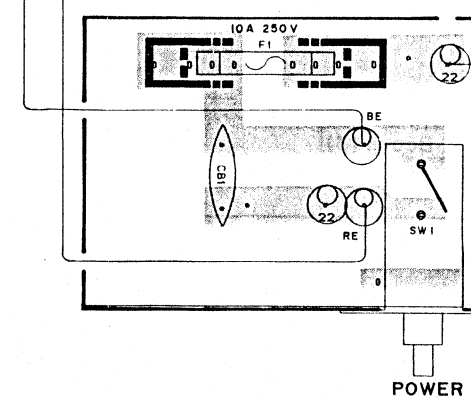


Main Circuit Board (6)



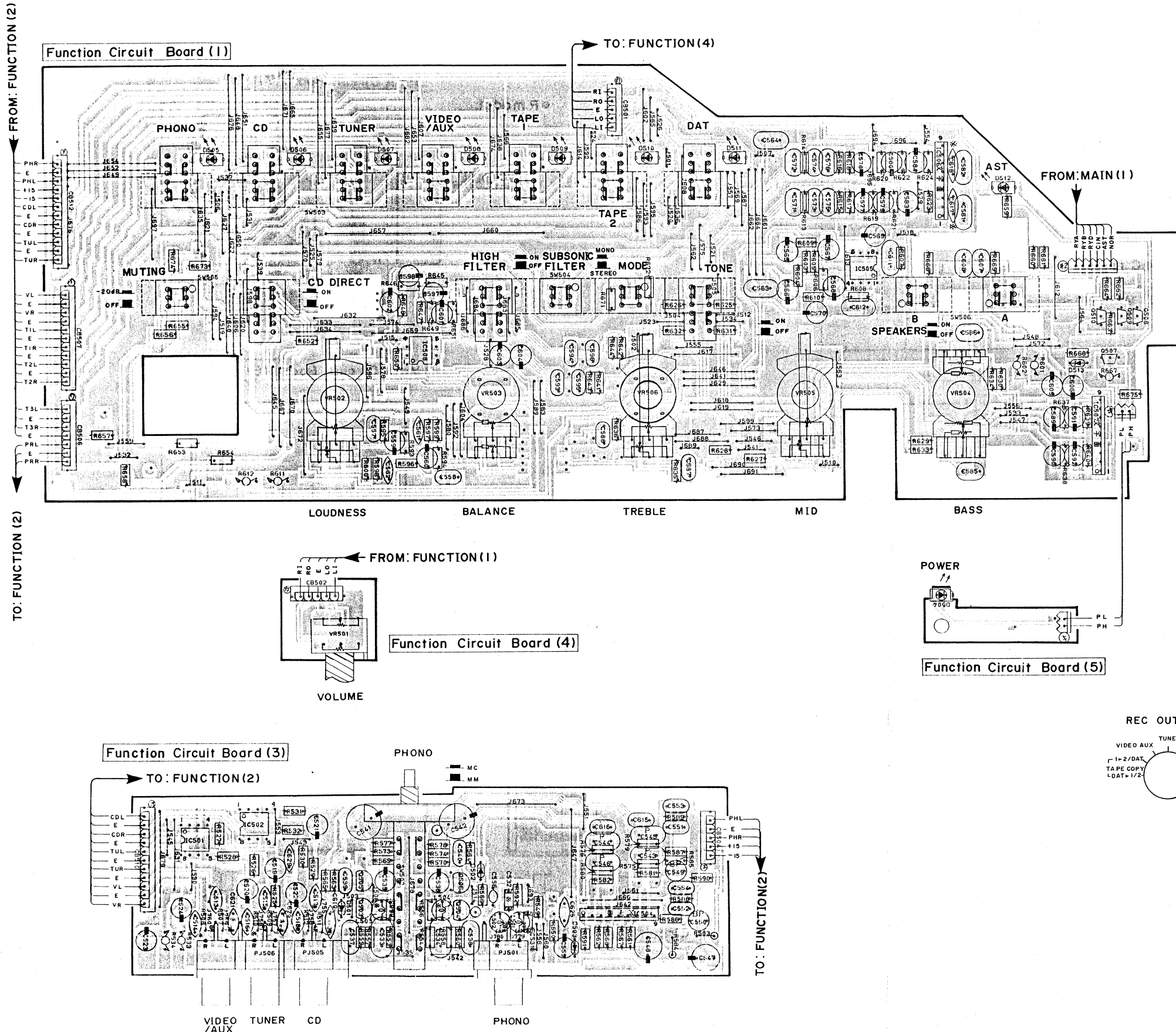
TO: TRANSFORMER

Main Circuit Board (5)



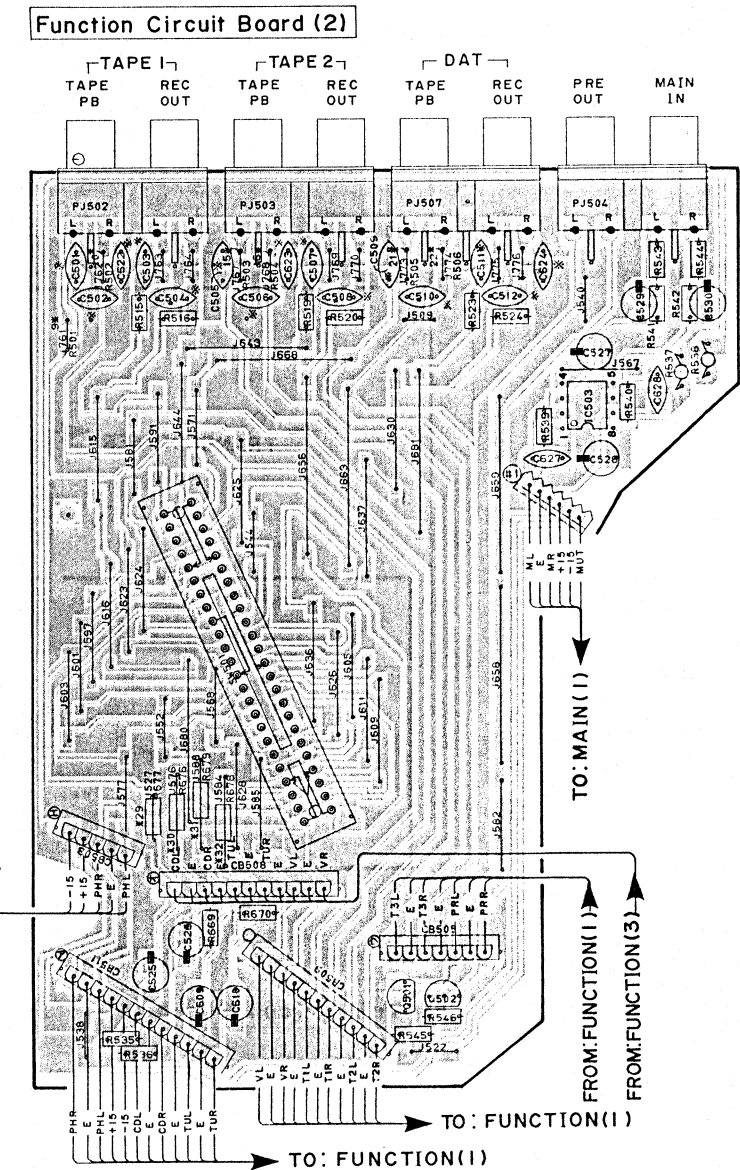
POWER

PRINTED CIRCUIT BOARD(Pattern side) Notes) 文字面 :Component side



Notes)Function circuit Board ※ marked

	U,C,R,A,B	G
C501,502,505,506,509		
510,513-518	OPEN	220P
C531,532	OPEN	100P
C620-625	OPEN	0.01
C617,618	OPEN	100P
L503,504	OPEN	220 μ H
J755-762,767,768	SHORT	220
773-778		
J503,504,507,508,511	OPEN	150P
512		



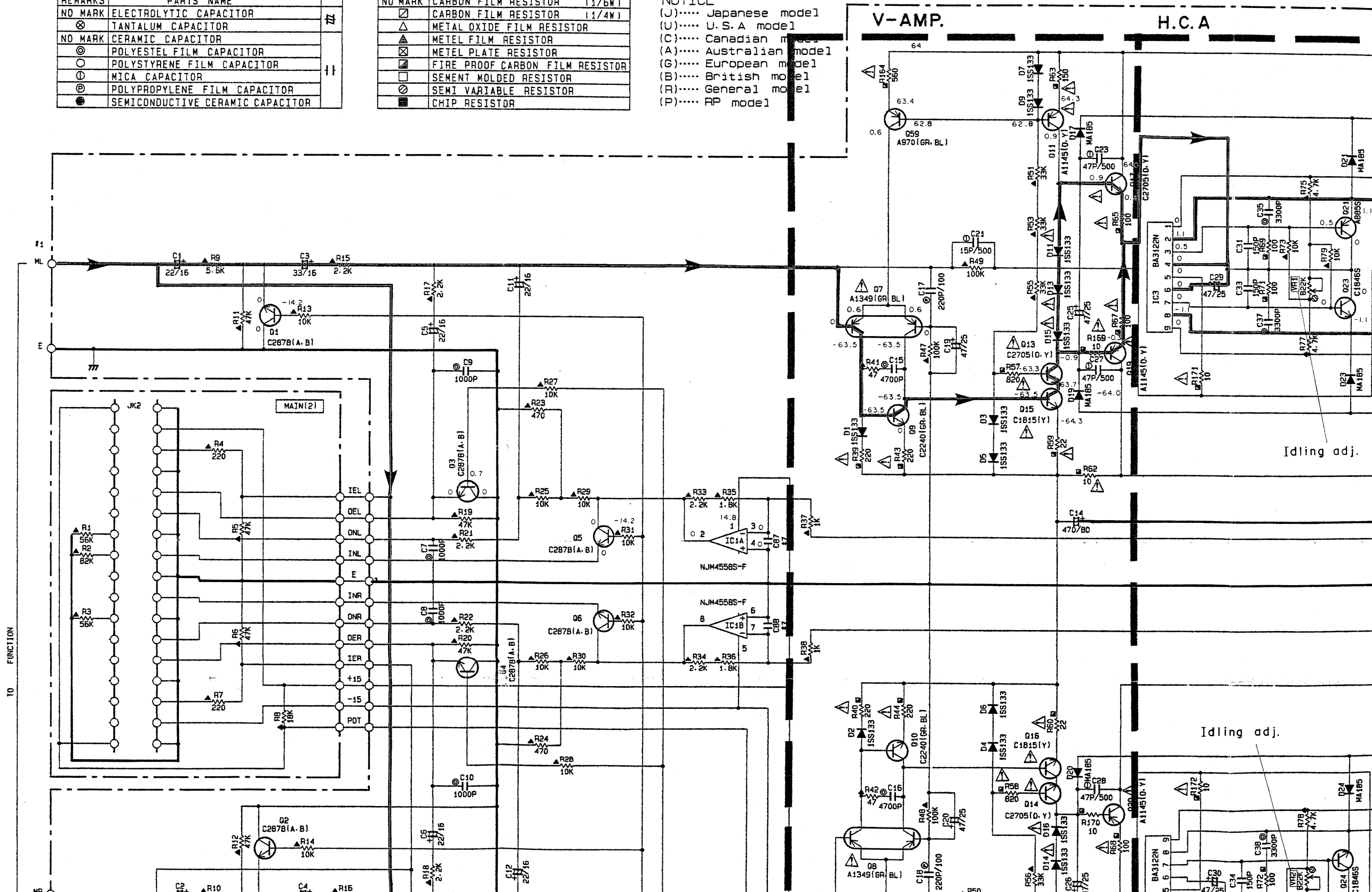
SCHEMATIC DIAGRAM

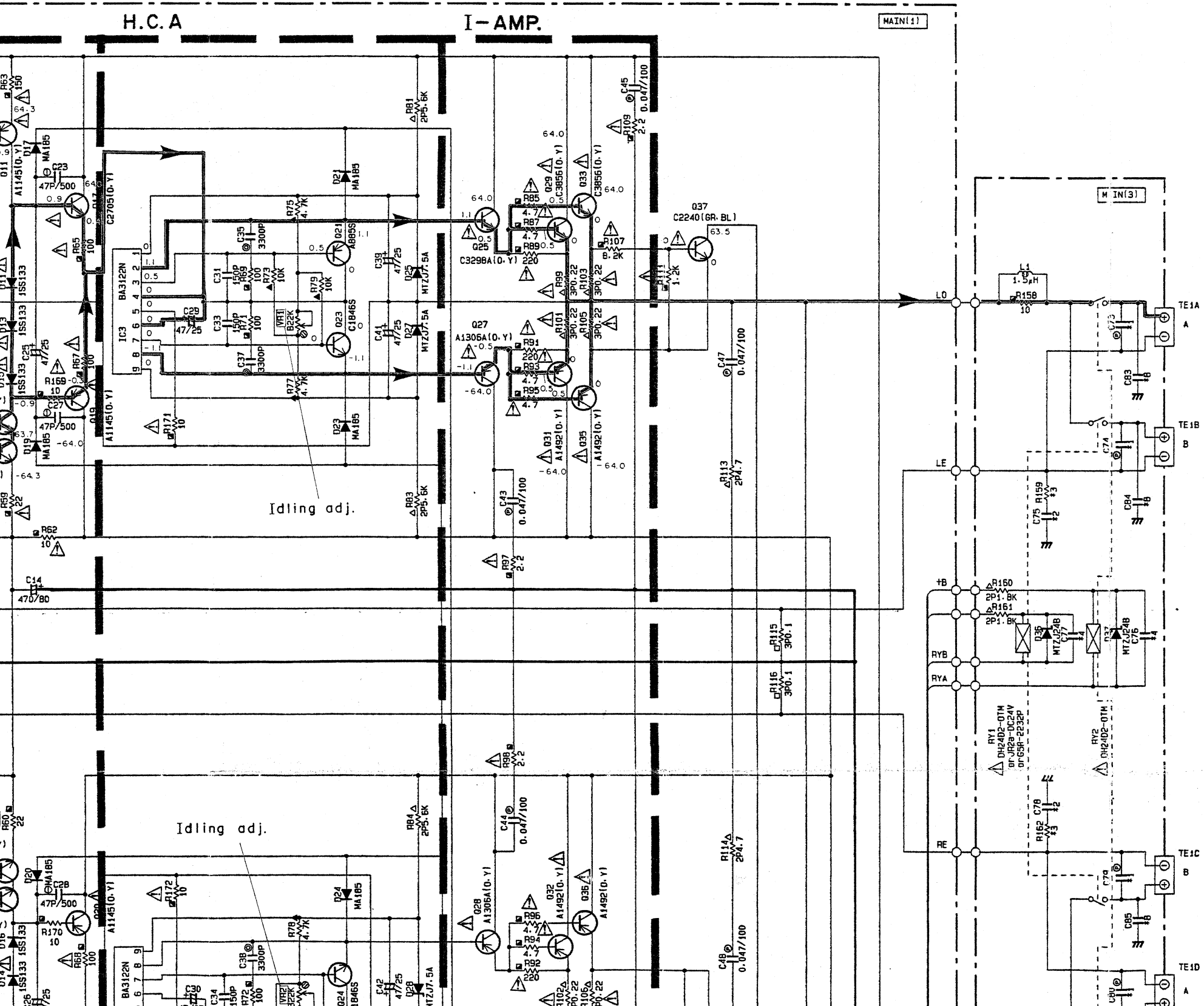
REMARKS	PARTS NAME	
NO MARK	ELECTROLYTIC CAPACITOR	⊘
⊗	TANTALUM CAPACITOR	⊗
NO MARK	CERAMIC CAPACITOR	
⊙	POLYESTER FILM CAPACITOR	⊙
○	POLYSTYRENE FILM CAPACITOR	○
○	MICA CAPACITOR	○
⊖	POLYPROPYLENE FILM CAPACITOR	⊖
●	SEMICONDUCTIVE CERAMIC CAPACITOR	●

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
⊠	SEMENT MOLDED RESISTOR
⊠	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

NOTICE

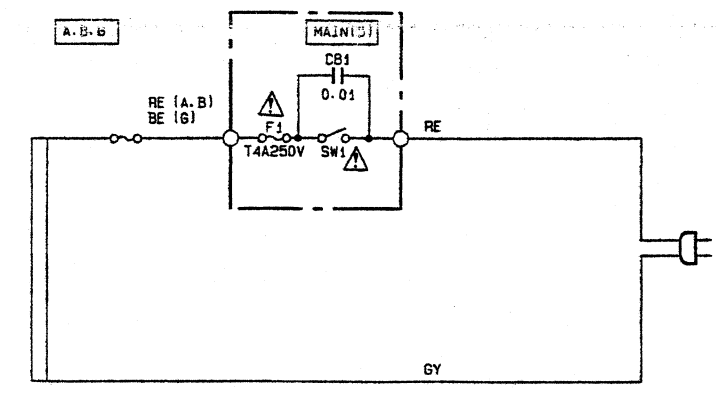
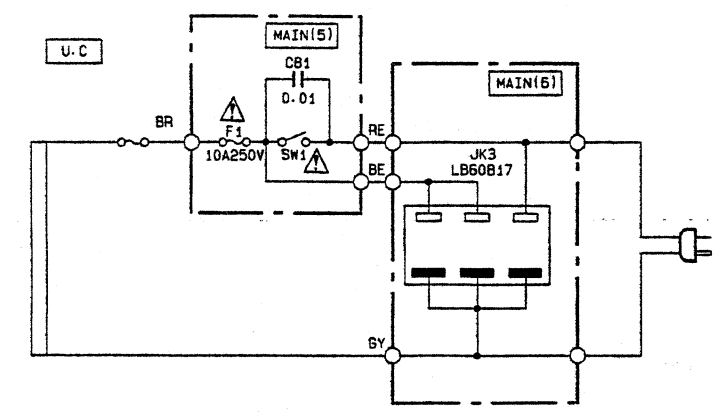
(J)..... Japanese model
 (U)..... U.S.A model
 (C)..... Canadian model
 (A)..... Australian model
 (G)..... European model
 (B)..... British model
 (R)..... General model
 (P)..... RP model

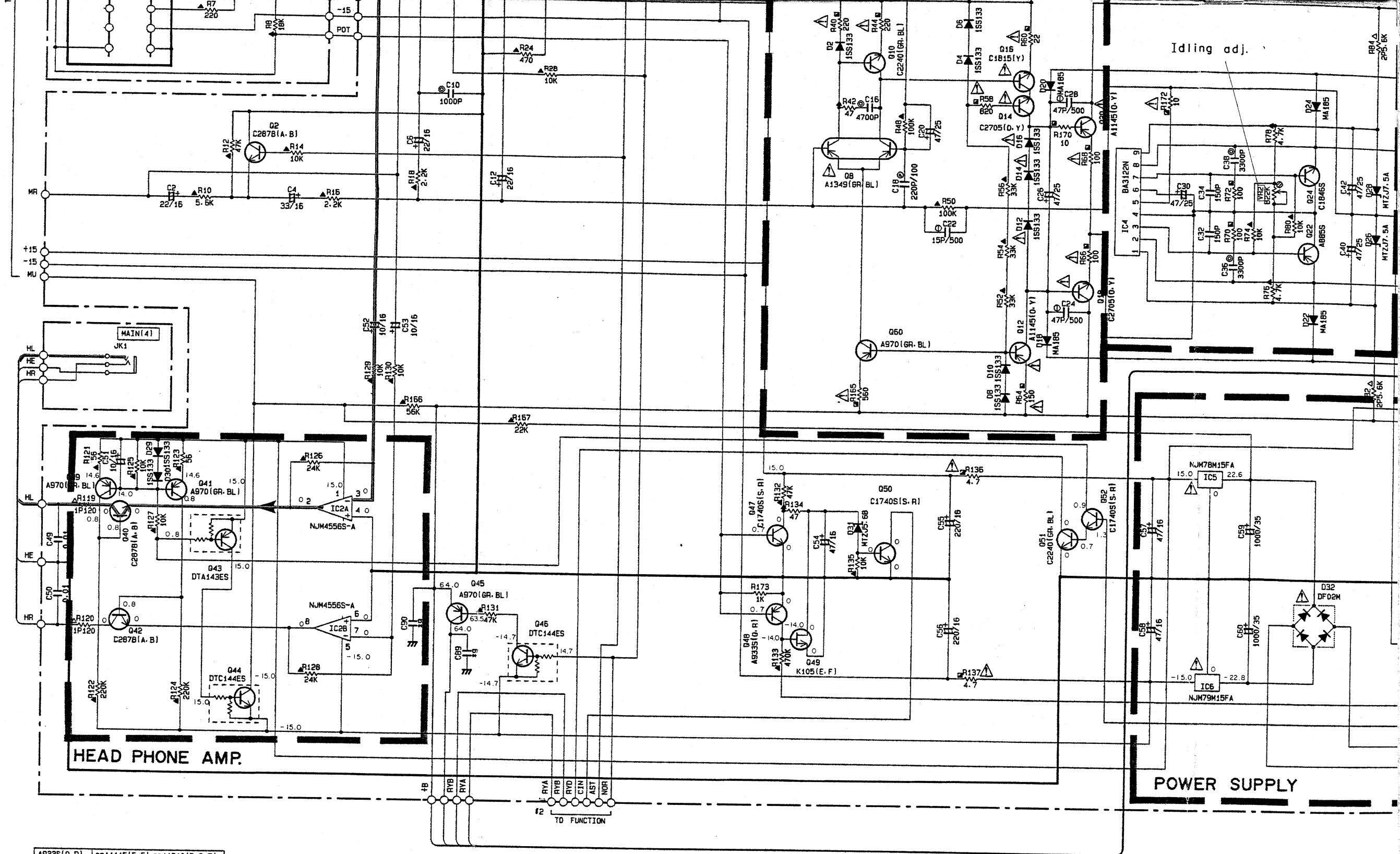




	U. C. R. A. B	G
#1	C75. 74. 79. 80	OPEN (⊕) 0.01/100
#2	C75. 76	OPEN D. 022
#3	R159. 162	OPEN 2. 2
#4	C76. 77	OPEN 0. 047
#5	C72	OPEN 0. 1/250
#6		
#7	C87. 88	OPEN 100P
#8	CC83-86	OPEN (⊕) 470P/100
#9	C89. 90	OPEN (⊕) 0. 1

	LAST NO.	UN LISTED NO.
C	90	
R	173	
Q	60	
D	37	
IC	6	

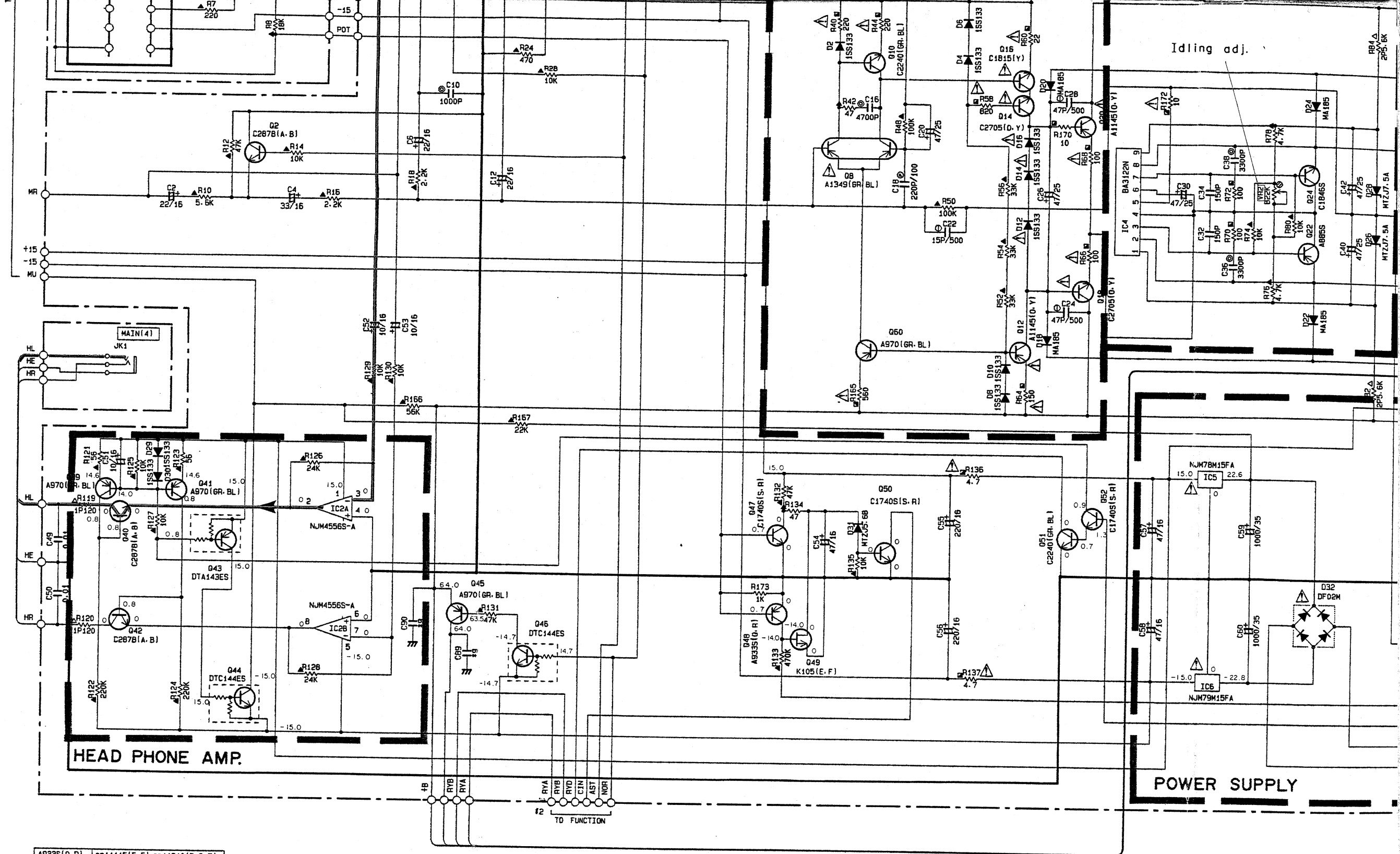




A933S(Q,R)	or A1115(E,F)	or A1310(R,S,T)
C1740S(S,R)	or C2603(E,F)	or C3312(R,S,T)
K105(E,F)	or K105(F,H)	
C1846S	or D1681(S,T)	
ABB5S	or B1141(S,T)	

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

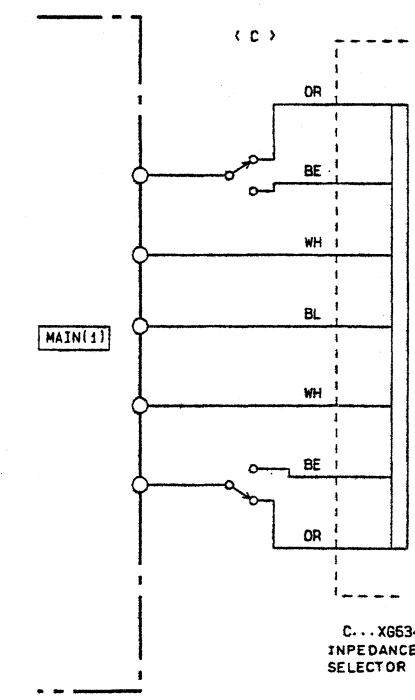
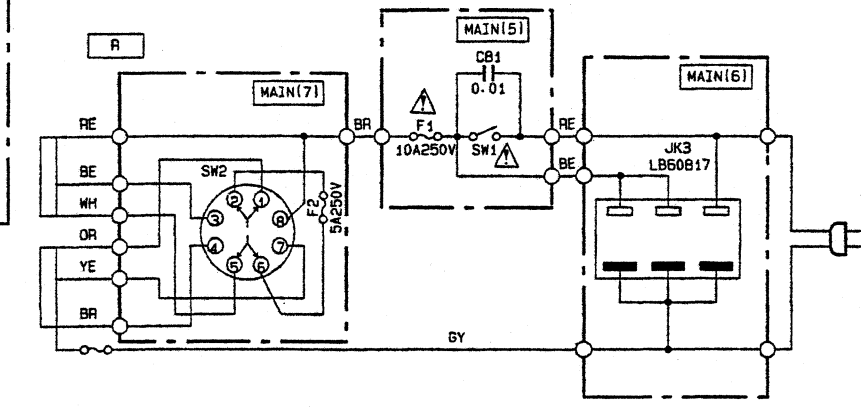
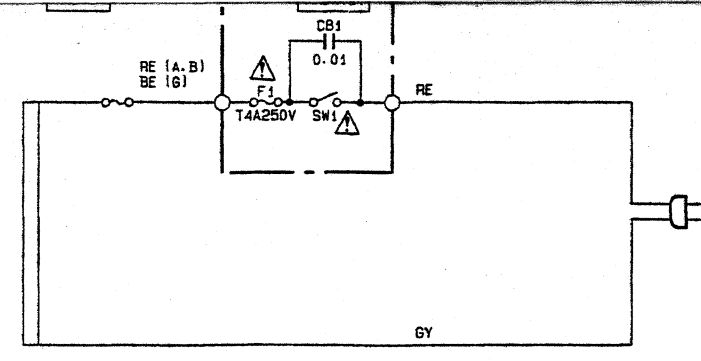
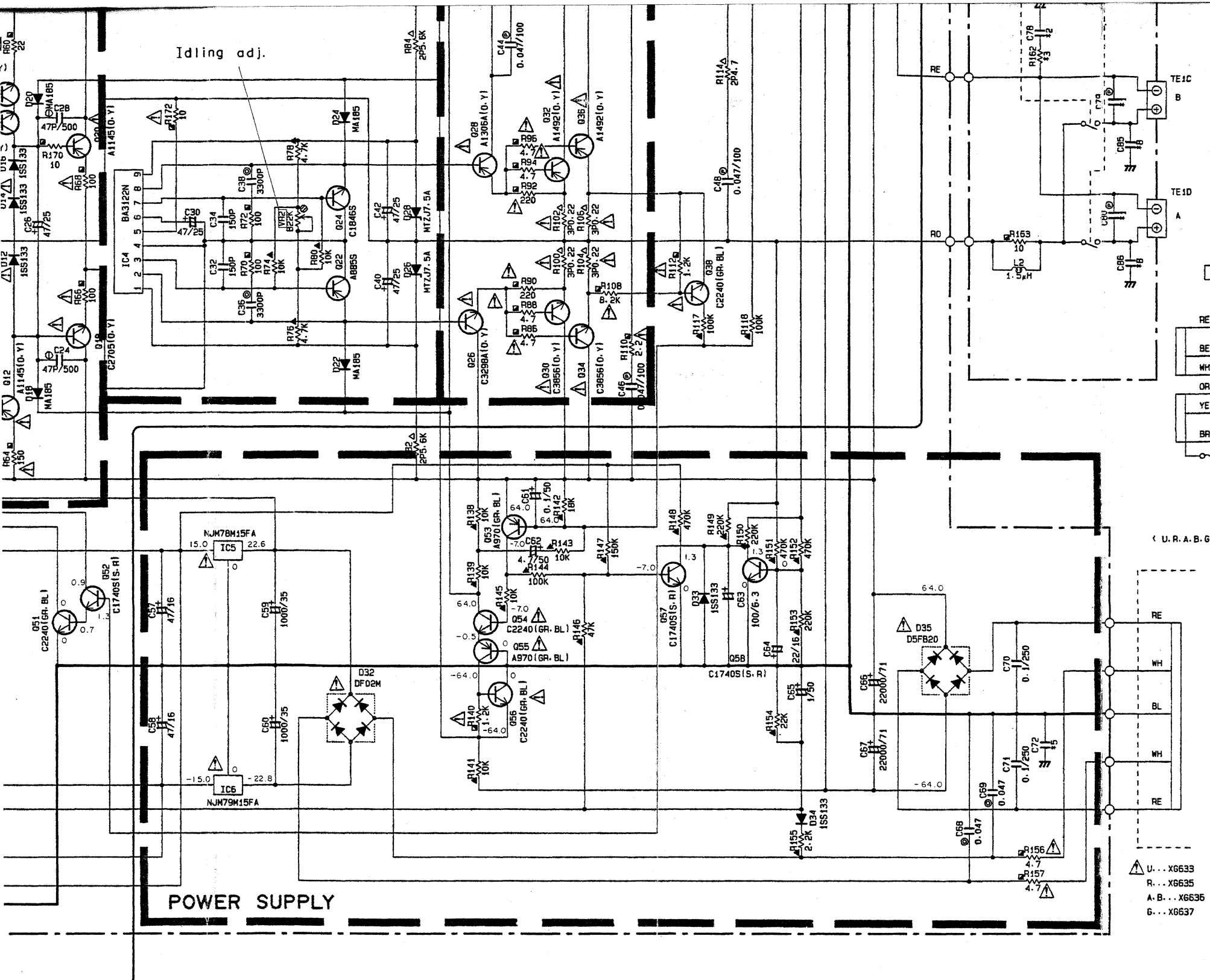
<p>2SA970(GR,BL) 2SK105(F,H) 2SC2240(GR,BL) 2SC1815(O,Y) 2SC2878(A,B)</p>	<p>2SC1740(R,S) 2SA933S(Q,R) DTA143ES DTC144ES DTA144ES DTA124ES</p>	<p>2SA1145(O,Y) 2SC2705(O,Y)</p>	<p>2SA1349</p>	<p>2scA1308(O,Y) 3298(O,Y)</p>	<p>1SS133 MA185 MTZJ24B MTZJ5.6B MTZJ7.5A MTZJ3.6B MTZJ6.2B</p>	<p>SLR-34VC3H3 SLR-34DC3H4</p>	<p>NJM2068D-D</p>	<p>NJM78M15FA NJM79M15FA</p>	<p>μ PC4570HA NJM4556S-A NJM4558S-F NJM4560S NJM2068S</p>	<p>BA3122N A</p>
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A933S(Q,R)	or A1115(E,F)	or A1310(R,S,T)
C1740S(S,R)	or C2603(E,F)	or C3312(R,S,T)
K105(E,F)	or K105(F,H)	
C1846S	or D1681(S,T)	
AB85S	or B1141(S,T)	

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

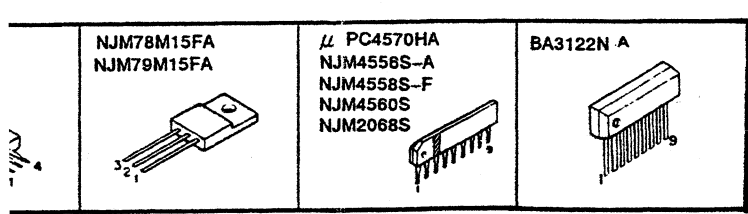
<p>2SA970(GR,BL) 2SK105(F,H) 2SC2240(GR,BL) 2SC1815(O,Y) 2SC2878(A,B)</p>	<p>2SC1740(R,S) 2SA933S(Q,R) DTA143ES DTC144ES DTA144ES DTA124ES</p>	<p>2SA1145(O,Y) 2SC2705(O,Y)</p>	<p>2SA1349</p>	<p>2scA1308(O,Y) 3298(O,Y)</p>	<p>1SS133 MA185 MTZJ24B MTZJ5.6B MTZJ7.5A MTZJ3.6B MTZJ6.2B</p>	<p>SLR-34VC3H3 SLR-34DC3H4</p>	<p>NJM2068D-D</p>	<p>NJM78M15FA NJM79M15FA</p>	<p>μ PC4570HA NJM4558S-A NJM4558S-F NJM4560S NJM2068S</p>	<p>BA3122N A</p>
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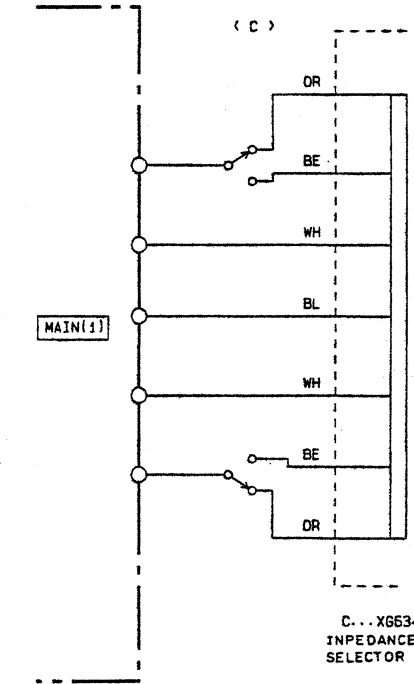
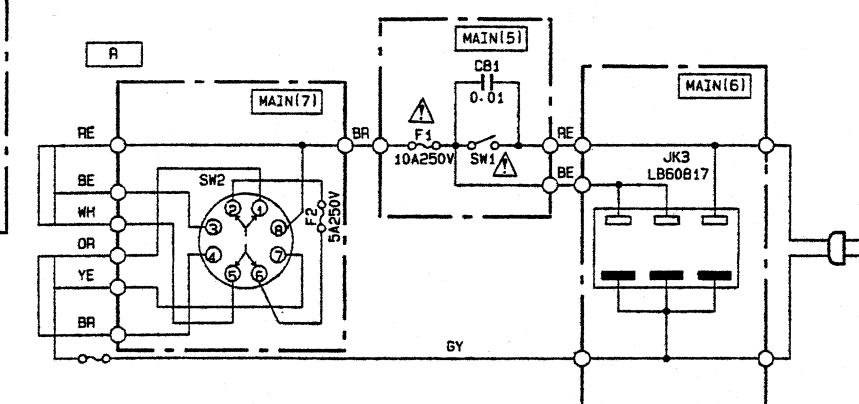
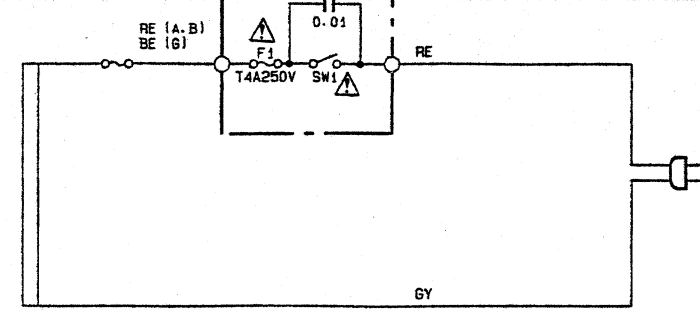
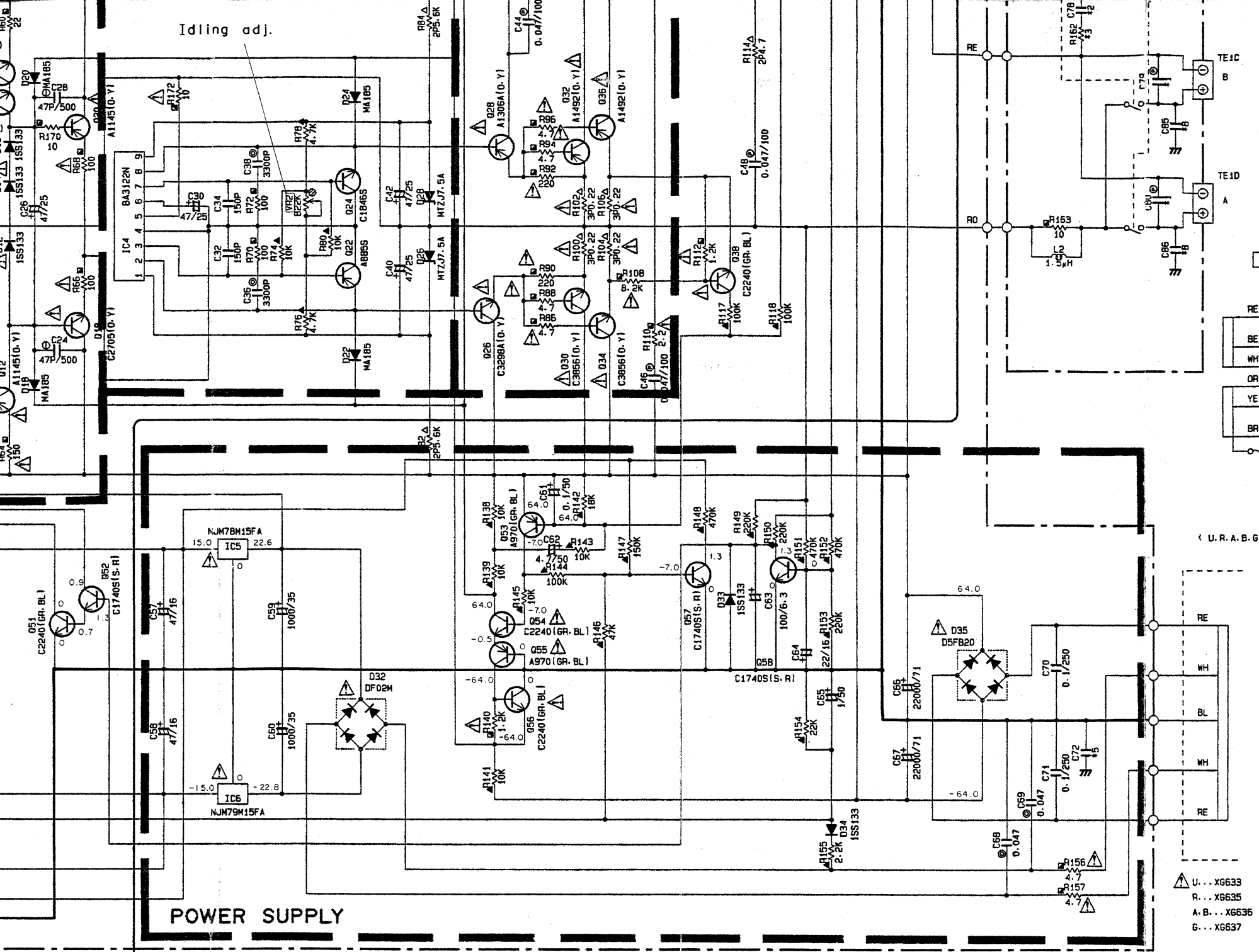
U... X6633
 R... X6635
 A, B... X6636
 G... X6637

C... X6634
 INPEDANCE
 SELECTOR

YST Cartridge	Speaker ON Position		A + B	
	A	B	A: Speaker Terminal	B: Speaker Terminal
Cartridge ON	YST Power Amp.	Normal Amp.	YST Power Amp.	-
Cartridge OFF	Normal Amp.	Normal Amp.	Normal Amp.	Normal Amp.



- The voltages are measured by no-signal mode.
- All voltages are measured with a 10MΩ/V DC electric volt meter.
- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.



U...XG633
 R...XG635
 A, B...XG636
 G...XG637

C...XG634
 INPEDANCE
 SELECTOR

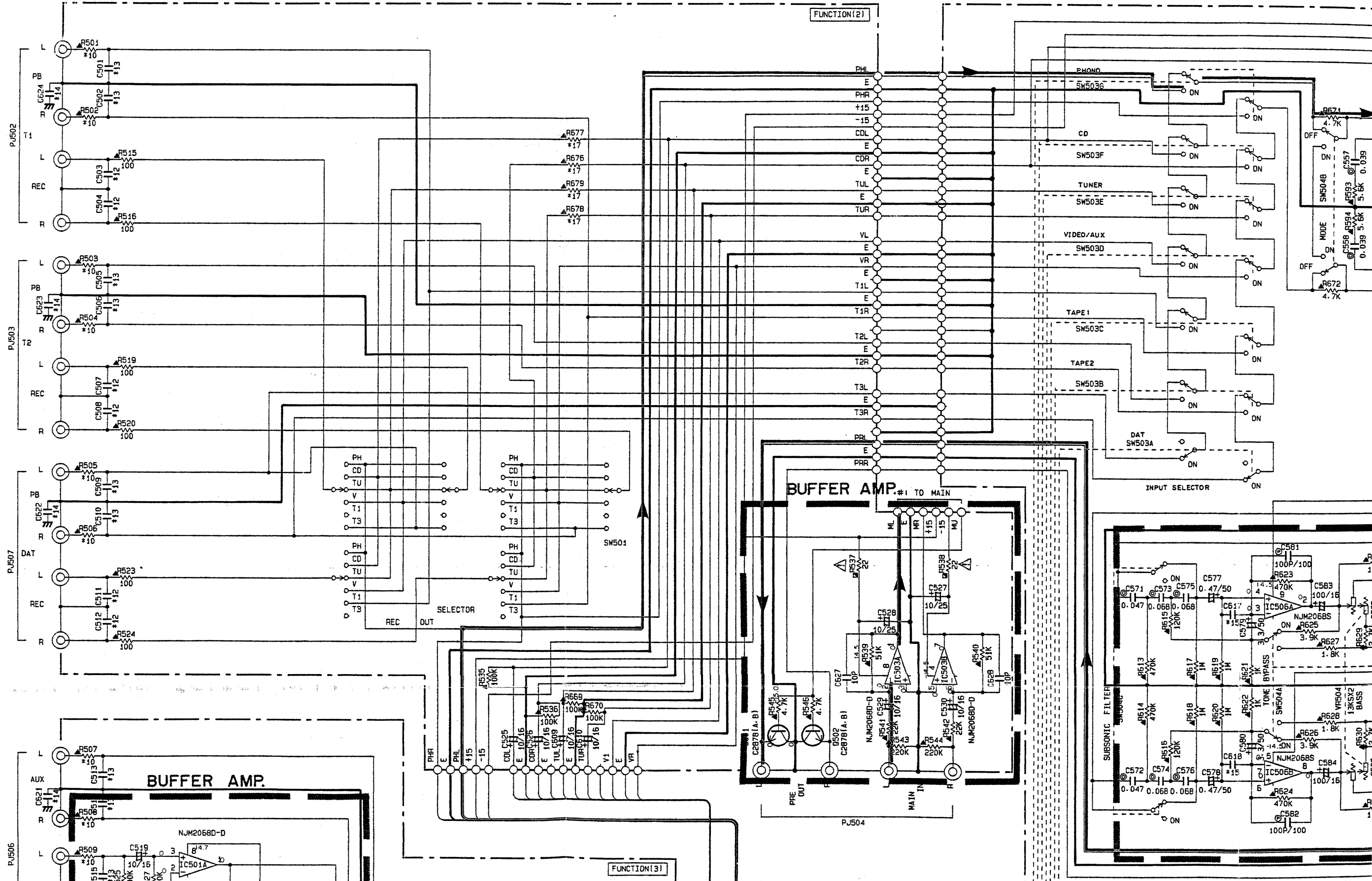
POWER SUPPLY

YST Cartridge	Speaker ON Position		A + B	
	A	B	A: Speaker Terminal	B: Speaker Terminal
Cartridge ON	YST Power Amp.	Normal Amp.	YST Power Amp.	-
Cartridge OFF	Normal Amp.	Normal Amp.	Normal Amp.	Normal Amp.

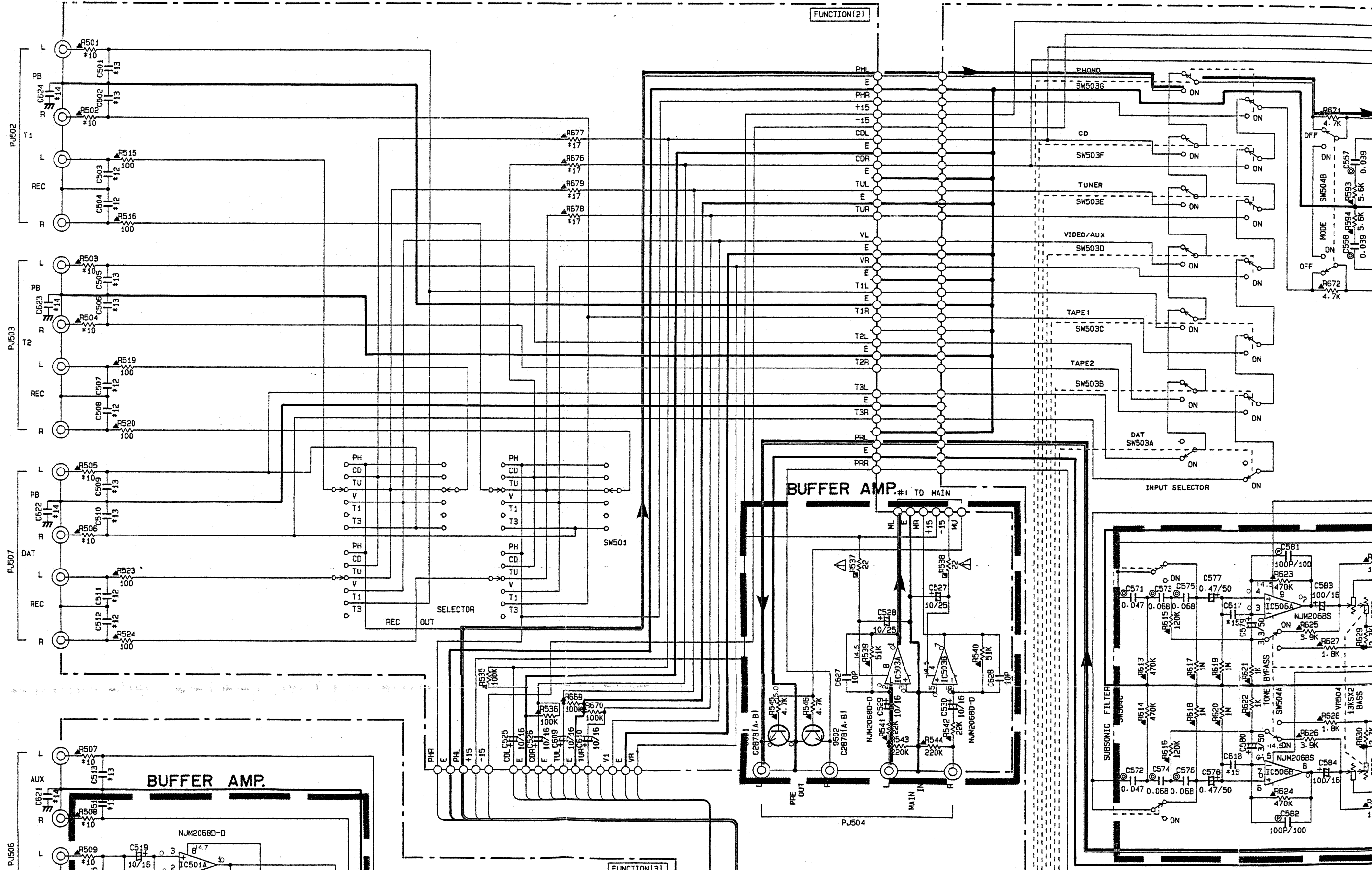
<p>NJM78M15FA NJM79M15FA</p>	<p>μ PC4570HA NJM4558S-A NJM4558S-F NJM4560S NJM2068S</p>	<p>BA3122N A</p>
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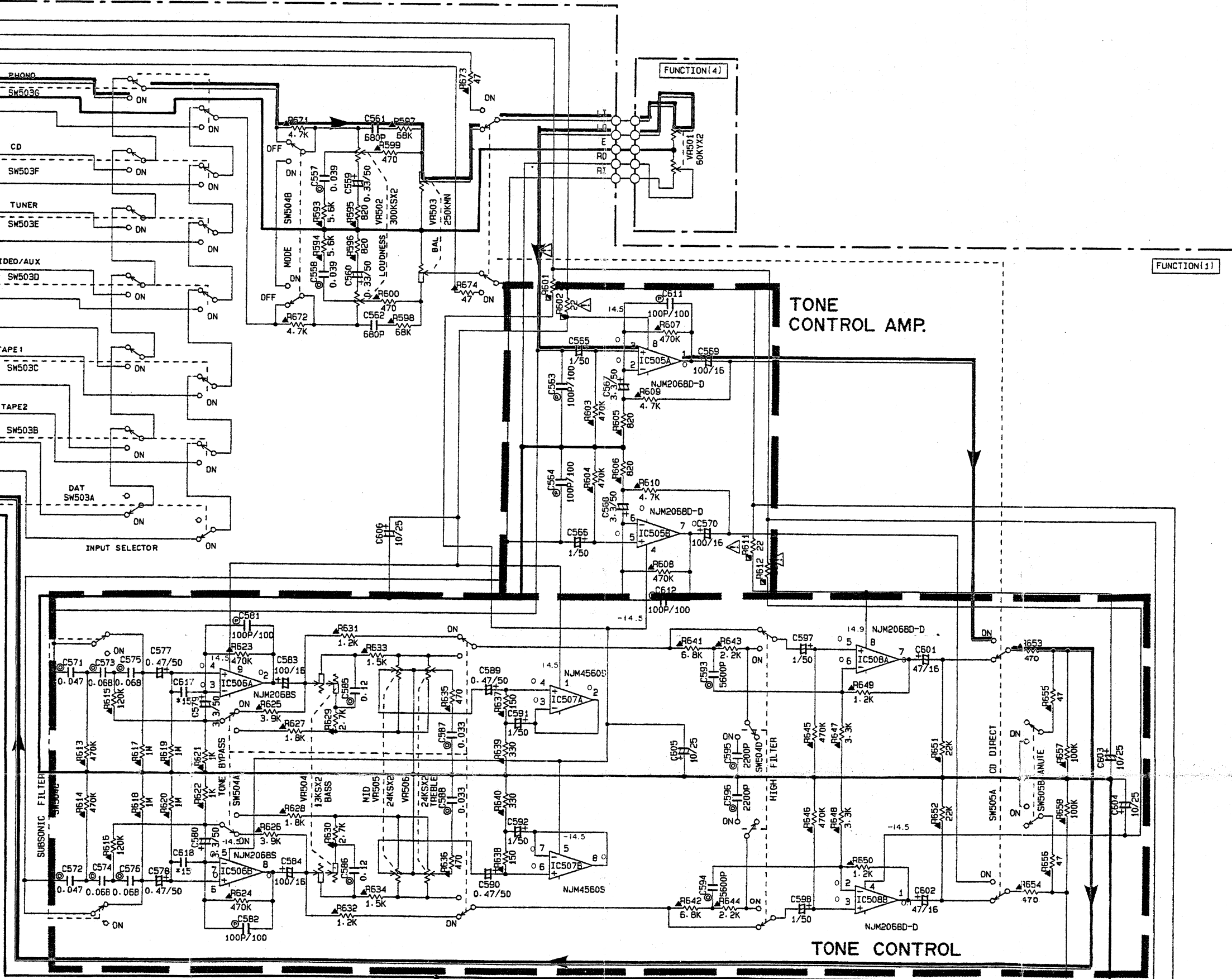
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- Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice.

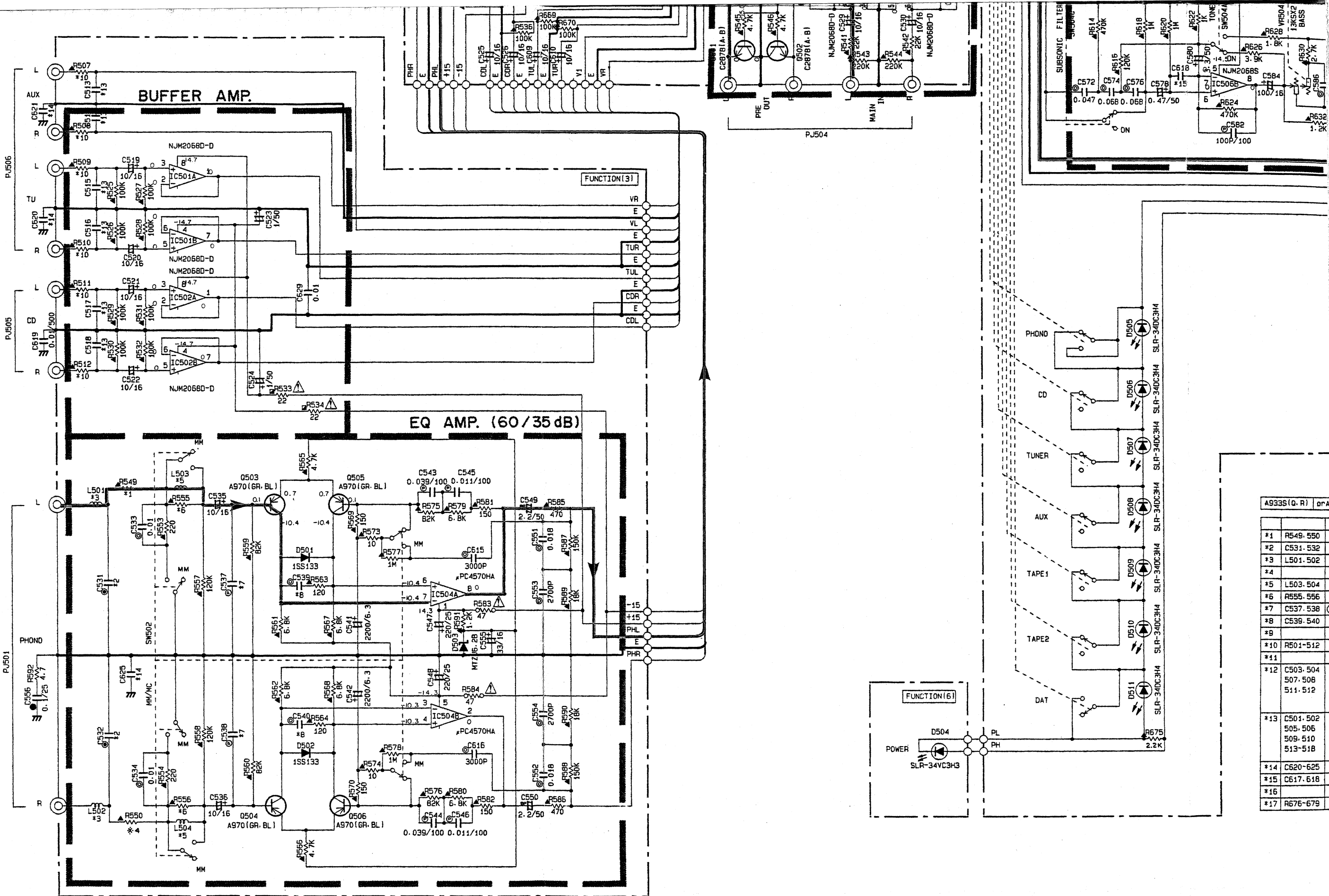
SCHEMATIC DIAGRAM



SCHEMATIC DIAGRAM



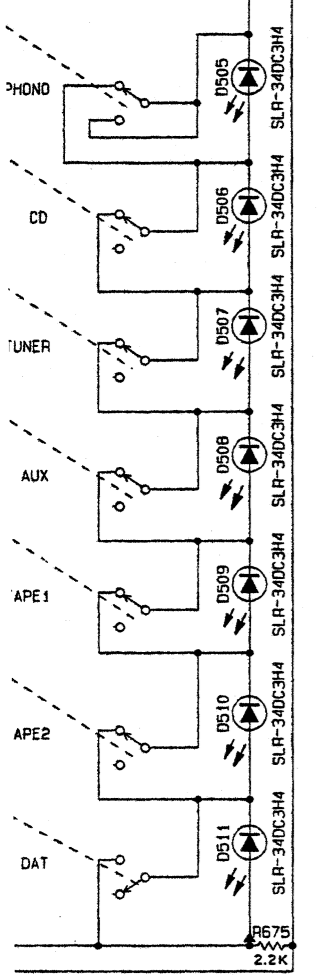
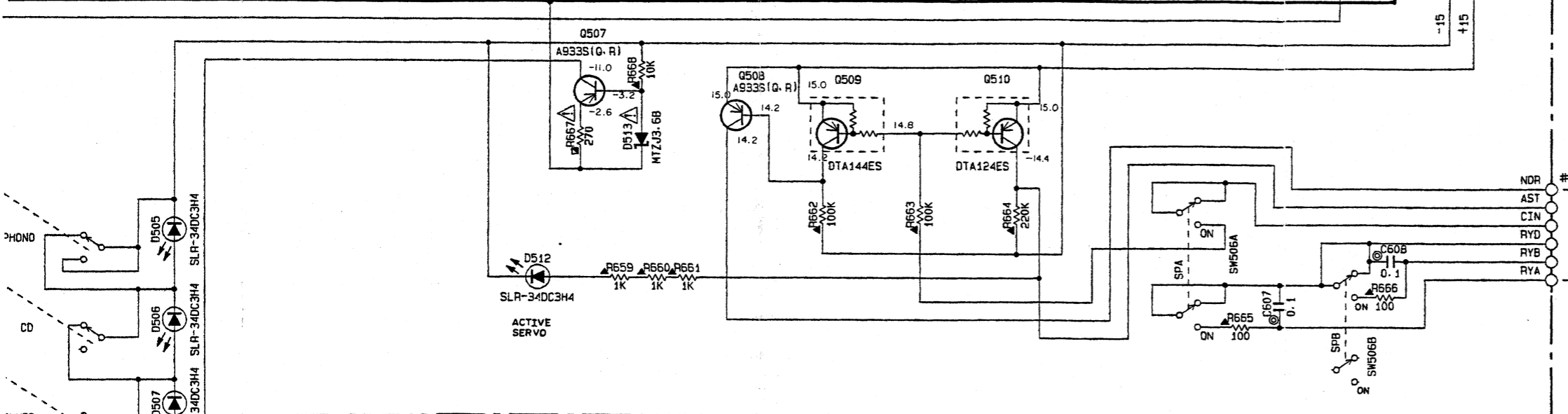
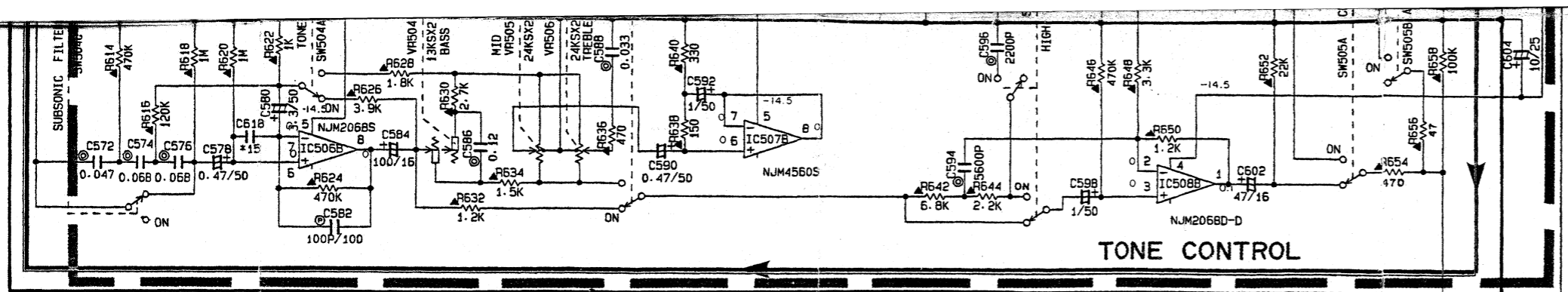




PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

<p>2SA970(GR.BL) 2SK105(F,H) 2SC2240(GR.BL) 2SC1815(O,Y) 2SC2878(A,B)</p>	<p>2SC1740(R,S) 2SA933S(Q,R) DTA143ES DTA144ES DTA124ES</p>	<p>2SA1145(O,Y) 2SC2705(O,Y)</p>	<p>2SA1349</p>	<p>2scA1306(O,Y) 3298(O,Y)</p>	<p>1SS133 MA185 MTZJ24B MTZJ5.6B MTZJ7.5A MTZJ3.6B MTZJ6.2B</p>	<p>SLR-34VC3H3 SLR-34DC3H4</p>	<p>NJM2068D-D</p>	<p>NJM78M15FA NJM79M15FA</p>	<p>PC4570HA NJM4556S-A NJM4558S-F NJM4580S NJM2068S</p>	<p>BA3122N/A</p>
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A933S(Q,R)	DrA
*1	R549-550
*2	C531-532
*3	L501-502
*4	
*5	L503-504
*6	R555-556
*7	C537-538
*8	C539-540
*9	
*10	R501-512
*11	
*12	C503-504 507-508 511-512
*13	C501-502 505-506 509-510 513-518
*14	C620-625
*15	C617-618
*16	
*17	R676-679



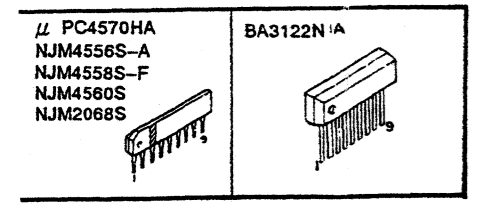
	A933S(Q. R)	or A1115(E. F)	or A1310(R. S. T)
	U. C. R. A. B	G	
*1	R549.550	10	33
*2	C531.532	OPEN	100P
*3	L501.502	SHORT	15µH
*4			
*5	L503.504	OPEN	220µH
*6	R555.556	33	2.2K
*7	C537.538	220P/100	270P/100
*8	C539.540	1500P	2700P
*9			
*10	R501-512	SHORT	220
*11			
*12	C503.504 507.508 511.512	OPEN	150P
*13	C501.502 505.506 509.510 513-518	OPEN	220P
*14	C620-625	OPEN	0.01
*15	C617.618	OPEN	100P
*16			
*17	R676-679	SHORT	330

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

RESISTOR	
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
□	CARBON FILM RESISTOR (1/4W)
△	METAL OXIDE FILM RESISTOR
▲	METEL FILM RESISTOR
⊗	METEL PLATE RESISTOR
▨	FIRE PROOF CARBON FILM RESISTOR
□	SEMENT MOLDED RESISTOR
⊙	SEMI VARIABLE RESISTOR
■	CHIP RESISTOR

CAPACITOR	
REMARKS	PARTS NAME
NO MARK	ELECTROLYTIC CAPACITOR
⊗	TANTALUM CAPACITOR
NO MARK	CERAMIC CAPACITOR
⊙	POLYESTEL FILM CAPACITOR
○	POLYSTYRENE FILM CAPACITOR
⊖	MICA CAPACITOR
⊕	POLYPROPYLENE FILM CAPACITOR
●	SEMICONDUCTIVE CERAMIC CAPACITOR

	LAST NO.	UN LISTED NO.
C	629	
R	679	
G	510	
D	513	
IC	508	



- The voltages are measured by no-signal mode.
- All voltages are measured with a 10MΩ/V DC electric volt meter.
- Components having special characteristics are marked △ and must be replaced with parts having specifications equal to those originally installed.
- Schematic diagram is subject to change without notice

PARTS LIST

■ WARNING

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

AX-930

■ ELECTRICAL PARTS

• Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistors, refer to p.25

Ref. NO.	PART NO.	Description			部 品 名	Remarks	Markets	ランク
*	VH992400	MAIN CIRCUIT BOARD			メインシート		U	
*	VH992500	MAIN CIRCUIT BOARD			メインシート		C	
*	VH992600	MAIN CIRCUIT BOARD			メインシート		R	
*	VH992700	MAIN CIRCUIT BOARD			メインシート		A, B	
*	VH992800	MAIN CIRCUIT BOARD			メインシート		G	
	FZ004660	MYLAR FILM CAP	0.1uF	250V	マイラーコン	C70,71		
	FZ004660	MYLAR FILM CAP	0.1uF	250V	マイラーコン	C72	G	
	FA153100	MYLAR FILM CAP	1000pF	50V	マイラーコン	C7-10		
	FA153330	MYLAR FILM CAP	3300pF	50V	マイラーコン	C35-38		
	FA153470	MYLAR FILM CAP	4700pF	50V	マイラーコン	C15,16		
	FA154470	MYLAR FILM CAP	0.047uF	50V	マイラーコン	C68,69		
	FA155100	MYLAR FILM CAP	0.1uF	50V	マイラーコン	C89,90	G	
	UT452220	POLYPROPYLENE FILM CAP	220pF	100V	PPコン	C17,18		
	UT452470	POLYPROPYLENE FILM CAP	470pF	100V	PPコン	C83-86	G	
	UT454100	POLYPROPYLENE FILM CAP	0.01uF	100V	PPコン	C73,74,79,80	G	
	UT454470	POLYPROPYLENE FILM CAP	0.047uF	100V	PPコン	C43-48		
	Fi504100	CERAMIC CAP.	0.01uF	VA-1	スパークキラーコン	C81		
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C87,88	G	
	FG212150	CERAMIC CAP	150pF	50V	セラコン	C31-34		
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C49,50		
	FG244220	CERAMIC CAP	0.022uF	50V	セラコン	C75,78	G	
	FG244470	CERAMIC CAP	0.047uF	50V	セラコン	C76,77	G	
	VE018000	ELECTROLYTIC CAP	220uF	16V	ケミコン	C55,56		
	VG286200	ELECTROLYTIC CAP	100uF	6.3V	ケミコン	C63		
	VG287200	ELECTROLYTIC CAP	10uF	16V	ケミコン	C51		
	VG287300	ELECTROLYTIC CAP	22uF	16V	ケミコン	C64		
	VG287500	ELECTROLYTIC CAP	47uF	16V	ケミコン	C25,26,29,30,39-42,54,	57,58	
	VG290000	ELECTROLYTIC CAP	0.1uF	50V	ケミコン	C61		
	VG290500	ELECTROLYTIC CAP	1uF	50V	ケミコン	C65		
	VG290800	ELECTROLYTIC CAP	4.7uF	50V	ケミコン	C62		
*	VG289800	ELECTROLYTIC CAP	1000uF	35V	ケミコン	C59,60		
	FZ005350	ELECTROLYTIC CAP	470uF	80V	ケミコン	C14		
	FU351150	MICA CAP	15pF	500V	マイカコン	C21,22		
	FU351470	MICA CAP	47pF	500V	マイカコン	C23,24,27,28		
*	Vi532500	ELECTROLYTIC CAP	10uF	16V	ケミコン	C52,53		
*	Vi532600	ELECTROLYTIC CAP	22uF	16V	ケミコン	C1,2,5,6,11,12		
*	Vi532700	ELECTROLYTIC CAP	33uF	16V	ケミコン	C3,4		
*	Vi534100	ELECTROLYTIC CAP	47uF	25V	ケミコン	C19,20,25,26,29,30,39-	-42	
	VC793700	COIL	1.5uH		空芯コイル	L1,2		
	HU594470	METAL FILM RESISTOR	47Ω	1/4W	金属被膜抵抗	R41,42,134		
	HU574560	METAL FILM RESISTOR	56Ω	1/4W	金属被膜抵抗	R121,123		
	HU575220	METAL FILM RESISTOR	220Ω	1/4W	金属被膜抵抗	R4,7		
	HU575470	METAL FILM RESISTOR	470Ω	1/4W	金属被膜抵抗	R23,24		
	HU576220	METAL FILM RESISTOR	2.2KΩ	1/4W	金属被膜抵抗	R15-18,155		
	HU576470	METAL FILM RESISTOR	4.7KΩ	1/4W	金属被膜抵抗	R75-78		
	HU576560	METAL FILM RESISTOR	5.6KΩ	1/4W	金属被膜抵抗	R9,10		
	HU597100	METAL FILM RESISTOR	10KΩ	1/4W	金属被膜抵抗	R13,14,25-32,73,74,79,	80,125,127,129,130,135	
	HU577180	METAL FILM RESISTOR	18KΩ	1/4W	金属被膜抵抗	138,139,141,143,145		
	HU577180	METAL FILM RESISTOR	18KΩ	1/4W	金属被膜抵抗	R8,142		

* : New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	VH993600	FUNCTION CIRCUIT BOARD				U, C, R, A, B	
	VH993800	FUNCTION CIRCUIT BOARD				G	
	FA153150	MYLAR FILM CAP	1500pF	50V	マイラーコン	C539, 540	U, R, A, C, B
	FA153270	MYLAR FILM CAP	2700pF	50V	マイラーコン	C539, 540	G
	FA153220	MYLAR FILM CAP	2200pF	50V	マイラーコン	C595, 596	
	FA153270	MYLAR FILM CAP	2700pF	50V	マイラーコン	C553, 554	
	FA153300	MYLAR FILM CAP	3000pF	50V	マイラーコン	C615, 616	
	FA153560	MYLAR FILM CAP	5600pF	50V	マイラーコン	C593, 594	
	FA154100	MYLAR FILM CAP	0.01uF	50V	マイラーコン	C533, 534	
	FA154180	MYLAR FILM CAP	0.018uF	50V	マイラーコン	C551, 552	
	FA154330	MYLAR FILM CAP	0.033uF	50V	マイラーコン	C587, 588	
	FA154390	MYLAR FILM CAP	0.039uF	50V	マイラーコン	C557, 558	
	FA154470	MYLAR FILM CAP	0.047uF	50V	マイラーコン	C571, 572	
	FA154680	MYLAR FILM CAP	0.068uF	50V	マイラーコン	C573-576	
	FA155100	MYLAR FILM CAP	0.1uF	50V	マイラーコン	C607, 608	
	FA155120	MYLAR FILM CAP	0.12uF	50V	マイラーコン	C585, 586	
	UT452100	POLYPROPYLENE FILM CAP	100pF	100V	PPコン	C563, 564, 581, 582, 611,	612
	UT452220	POLYPROPYLENE FILM CAP	220pF	100V	PPコン	C537, 538	U, C, R, A, B
	UT452270	POLYPROPYLENE FILM CAP	270pF	100V	PPコン	C537, 538	G
	UT464110	POLYPROPYLENE FILM CAP	0.011uF	100V	PPコン	C545, 546	
	UT464390	POLYPROPYLENE FILM CAP	0.039uF	100V	PPコン	C543, 544	
	FG211100	CERAMIC CAP	10pF	50V	セラコン	C627, 628	
	FG212100	CERAMIC CAP	100pF	50V	セラコン	C617, 618	G
	FG212150	CERAMIC CAP	150pF	50V	セラコン	C503, 504, 507, 508, 511, 512	G
	FG212220	CERAMIC CAP	220pF	50V	セラコン	C501, 502, 505, 506, 509, 510, 513-518	G
	FG212680	CERAMIC CAP	680pF	50V	セラコン	C561, 562	
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C629	
	FG244100	CERAMIC CAP	0.01uF	50V	セラコン	C620-625	G
	FH234100	CERAMIC CAP	0.01uF	500V	セラコン	C619	
	FZ004130	SEMI-CONDUCTIVE CAP	0.1uF	25V	半導体セラコン	C556	
	VF466800	CERAMIC CAP	100pF	50V	円筒セラコン	C531, 532	G
	VG287400	ELECTROLYTIC CAP	33uF	16V	ケミコン	C555	
	VG287600	ELECTROLYTIC CAP	100uF	16V	ケミコン	C583, 584	
	VG288500	ELECTROLYTIC CAP	10uF	25V	ケミコン	C527, 528, 605, 606	
	VG289000	ELECTROLYTIC CAP	220uF	25V	ケミコン	C547, 548	
	VG290200	ELECTROLYTIC CAP	0.33uF	50V	ケミコン	C559, 560	
	VG290300	ELECTROLYTIC CAP	0.47uF	50V	ケミコン	C577, 578, 589, 590	
	VG290500	ELECTROLYTIC CAP	1uF	50V	ケミコン	C523, 524, 591, 592, 597,	598
	VG290700	ELECTROLYTIC CAP	3.3uF	50V	ケミコン	C579, 580	
	Vi532500	ELECTROLYTIC CAP	10uF	16V	ケミコン	C519-522, 525, 526, 529, 530, 535, 536, 609, 610	
	Vi532800	ELECTROLYTIC CAP	47uF	16V	ケミコン	C601, 602	
	Vi532900	ELECTROLYTIC CAP	100uF	16V	ケミコン	C569, 570	
	U1919220	ELECTROLYTIC CAP	2200uF	6.3V	ケミコン	C541, 542	
	FMI16220	ELECTROLYTIC CAP	2.2uF	50V	BPケミコン	C549, 550	
	UM407100	ELECTROLYTIC CAP	10uF	25V	ケミコン	C603, 604	
	UJ166100	ELECTROLYTIC CAP	1uF	50V	ケミコン	C565, 566	
	UM416330	ELECTROLYTIC CAP	3.3uF	50V	ケミコン	C567, 568	

* : New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	VA983500	COIL	15uH	ELF0505SKI	コイル	L501,502	G
	VA983600	COIL	220uH	ELF0505SKI	コイル	L503,504	G
	HU574100	METAL FILM RESISTOR	10Ω	1/4W	金属被膜抵抗	R573,574	
	HU574100	METAL FILM RESISTOR	10Ω	1/4W	金属被膜抵抗	R549	U,C,R,A,B
	HU594330	METAL FILM RESISTOR	33Ω	1/4W	金属被膜抵抗	R549	G
	HU594330	METAL FILM RESISTOR	33Ω	1/4W	金属被膜抵抗	R555,556	U,C,R,A,B
	HU576220	METAL FILM RESISTOR	2.2KΩ	1/4W	金属被膜抵抗	R555,556	G
	HU594470	METAL FILM RESISTOR	47Ω	1/4W	金属被膜抵抗	R655,656,673,674	
	HU595100	METAL FILM RESISTOR	100Ω	1/4W	金属被膜抵抗	R515,516,519,520,523, 524,665,666	
	HU575120	METAL FILM RESISTOR	120Ω	1/4W	金属被膜抵抗	R563,564	
	HU595150	METAL FILM RESISTOR	150Ω	1/4W	金属被膜抵抗	R569,570,581,582,637,	638
	HU575220	METAL FILM RESISTOR	220Ω	1/4W	金属被膜抵抗	R553,554	
	HU575220	METAL FILM RESISTOR	220Ω	1/4W	金属被膜抵抗	R501-512	G
	HU575330	METAL FILM RESISTOR	330Ω	1/4W	金属被膜抵抗	R639,640	
	HU575330	METAL FILM RESISTOR	330Ω	1/4W	金属被膜抵抗	R676-679	G
	HU575470	METAL FILM RESISTOR	470Ω	1/4W	金属被膜抵抗	R585,586,599,600,635, 636,653,654	
	HU595820	METAL FILM RESISTOR	820Ω	1/4W	金属被膜抵抗	R595,596,605,606	
	HU596100	METAL FILM RESISTOR	1KΩ	1/4W	金属被膜抵抗	R621,622,659-661	
	HU576120	METAL FILM RESISTOR	1.2KΩ	1/4W	金属被膜抵抗	R591,631,632,649,650	
	HU576150	METAL FILM RESISTOR	1.5KΩ	1/4W	金属被膜抵抗	R633,634	
	HU576180	METAL FILM RESISTOR	1.8KΩ	1/4W	金属被膜抵抗	R627,628	
	HU576220	METAL FILM RESISTOR	2.2KΩ	1/4W	金属被膜抵抗	R643,644,675	
	HU596270	METAL FILM RESISTOR	2.7KΩ	1/4W	金属被膜抵抗	R629,630	
	HU576330	METAL FILM RESISTOR	3.3KΩ	1/4W	金属被膜抵抗	R647,648	
	HU576390	METAL FILM RESISTOR	3.9KΩ	1/4W	金属被膜抵抗	R625,626	
	HU576470	METAL FILM RESISTOR	4.7KΩ	1/4W	金属被膜抵抗	R545,546,565,566,609, 610,671,672	
	HU576560	METAL FILM RESISTOR	5.6KΩ	1/4W	金属被膜抵抗	R593,594	
	HU576680	METAL FILM RESISTOR	6.8KΩ	1/4W	金属被膜抵抗	R561,562,567,568,579, 580,641,642	
	HU597100	METAL FILM RESISTOR	10KΩ	1/4W	金属被膜抵抗	R668	
	HU577180	METAL FILM RESISTOR	18KΩ	1/4W	金属被膜抵抗	R589,590	
	HU577220	METAL FILM RESISTOR	22KΩ	1/4W	金属被膜抵抗	R541,542,651,652	
	HU577510	METAL FILM RESISTOR	51KΩ	1/4W	金属被膜抵抗	R539,540	
	HU577680	METAL FILM RESISTOR	68KΩ	1/4W	金属被膜抵抗	R597,598	
	HU577820	METAL FILM RESISTOR	82KΩ	1/4W	金属被膜抵抗	R559,560,575,576	
	HU598100	METAL FILM RESISTOR	100KΩ	1/4W	金属被膜抵抗	R525-532,535,536,657, 658,662,663,669,670	
	HU578120	METAL FILM RESISTOR	120KΩ	1/4W	金属被膜抵抗	R557,558,615,616	
	HU578150	METAL FILM RESISTOR	150KΩ	1/4W	金属被膜抵抗	R587,588	
	HU598220	METAL FILM RESISTOR	220KΩ	1/4W	金属被膜抵抗	R543,544,664	
	HU578470	METAL FILM RESISTOR	470KΩ	1/4W	金属被膜抵抗	R603,604,607,608,613, 614,623,624,645,646	
	HU579100	METAL FILM RESISTOR	1MΩ	1/4W	金属被膜抵抗	R577,578,617-620	
	HV454220	FLAME PROOF RESISTOR	22Ω	1/4W	不燃化カーボン抵抗	R533,534,537,538,601, 602,611,612	
	HV455390	FLAME PROOF RESISTOR	390Ω	1/4W	不燃化カーボン抵抗	R667	
	Vi711500	FUSING RESISTOR	47Ω		ヒューズ抵抗	R583,584	

* : New Parts (新規部品)

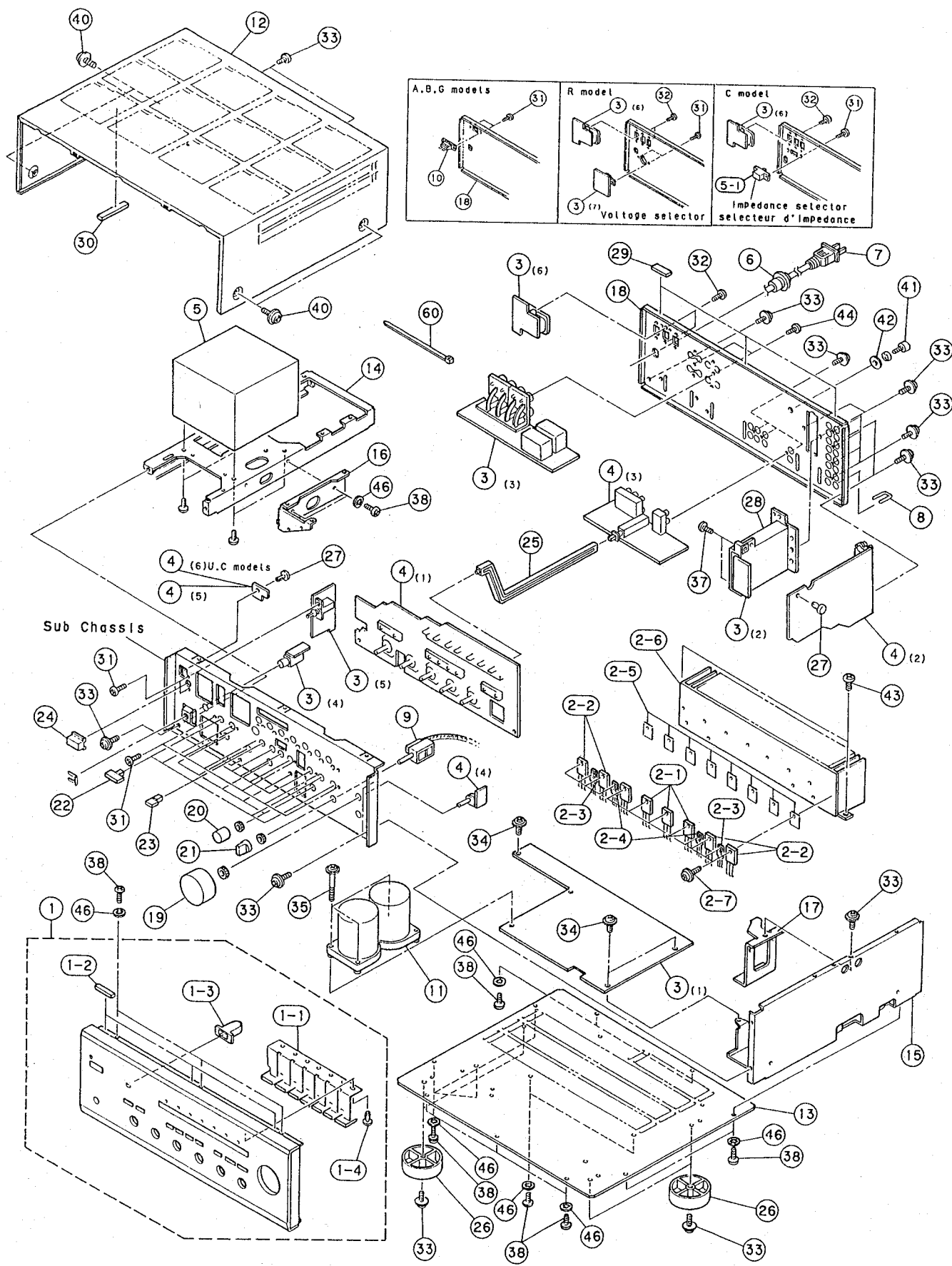
ランク : Japan only



AX-930

Ref. NO.	PART NO.	Description	部 品 名		Remarks	Markets	ランク
	HL314100	METAL OXIDE RESISTOR	10Ω	2W	酸化金属被膜抵抗	R550	U,C,R,A,B G
	HL314330	METAL OXIDE RESISTOR	33Ω	2W	酸化金属被膜抵抗	R550	
	iG121800	IC	NJM4560S		IC	IC507	
	XA987001	IC	NJM2068D-D		IC	IC501-503,505,508	
	XA956001	IC	NJM2068S		IC	IC506	
	XB247001	IC	uPC4570HA		IC	IC504	
	KA902890	ROTARY SWITCH	SSR26602D		ロータリーSW	SW501	
	VC369900	PUSH SWITCH	SPUF19 6-2		プッシュSW	SW502	
	Vi008200	PUSH SWITCH	SPEC21043A 2-2		プッシュSW	SW506	
	Vi008300	PUSH SWITCH	SPEC21042A 4-2,2-2		プッシュSW	SW505	
	Vi008400	PUSH SWITCH	SPEC44012B 4-2,2-2		プッシュSW	SW504	
	Vi008700	PUSH SWITCH	SPEC71006A 4-2		プッシュSW	SW503	
	LB202560	PIN JACK	2P	T5856-A	ピンジャック	PJ501	
	LB202610	PIN JACK	2P	T5854-A	ピンジャック	PJ505	
	LB401030	PIN JACK	4P	T5857-A	ピンジャック	PJ502-504	
	LB401030	PIN JACK	4P	T5857-A	ピンジャック	PJ506,507	U,C,R,A,B G
	LB401040	PIN JACK	4P	T5858-A	ピンジャック	PJ506,507	
	VA725500	HOLDER	5P		バラレルホルダ	CB501-504	
	VA725700	HOLDER	7P		バラレルホルダ	CB505,506	
	VA726100	HOLDER	11P		バラレルホルダ	CB507-510	
	VA726200	HOLDER	12P		バラレルホルダ	CB511,512	
	VD004500	BASE PIN	2P	PH	ベースピン	CB513	
	Vi008000	POTENTIOMETER	MN250K		二連ロータリーVR	VR503	
	Vi007800	POTENTIOMETER	24Kx2		二連ロータリーVR	VR505,506	
	Vi007900	POTENTIOMETER	Y60Kx2		二連ロータリーVR	VR501	
	Vi007700	POTENTIOMETER	13Kx2		二連ロータリーVR	VR504	
	Vi008100	POTENTIOMETER	300Kx2		二連ロータリーVR	VR502	
	iC287820	TRANSISTOR	2SC2878 A,B		トランジスタ	Q501,502	
	iA097000	TRANSISTOR	2SA970 GR,BL		トランジスタ	Q503-506	
	iA093370	TRANSISTOR	2SA933S Q,R		トランジスタ	Q507,508	
	VG721700	DIGITAL TRANSISTOR	DTA144ES		デジトラ	Q509	
	VH257100	DIGITAL TRANSISTOR	DTA124ES		デジトラ	Q510	
	iF004600	DIODE	1SS133		ダイオード	D501,502	
	VG436400	ZENER DIODE	MTZJ3.6B		ツェナーダイオード	D513	△
	VG438000	ZENER DIODE	MTZJ6.2B		ツェナーダイオード	D503	
	Vi013600	LED	SLR-34VC3H3 (RED)		LED	D504	
	Vi013500	LED	SLR-34DC3H4 (OR)		LED	D505-512	

EXPLODED VIEW



MECHANISM PARTS

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
1	VH992100	PANEL UNIT	パネルユニット	RL		
1	VH992200	PANEL UNIT	パネルユニット	T		
1-1	VH815200	BUTTON	ボタン	BL		
1-1	VH815300	BUTTON	ボタン	T		
1-2	VH173200	DAMPER	ダンパー			
1-3	CB630010	REFLECTOR	リフレクター			
1-4	CB099600	PLASTIC RIVET	ブラリベット			
2-1	IXG06460	TRANSISTOR	トランジスタ	Q31,32,35,36		
2-2	IXG06470	TRANSISTOR	トランジスタ	Q29,30,33,34		
2-3	VE912800	TRANSISTOR	トランジスタ	Q21,22		
2-4	VE912900	TRANSISTOR	トランジスタ	Q23,24		
2-5	VB435000	SHEET, RADIATOR	放熱シート			
2-6	VH815100	RADIATOR	ラジエータ			
2-7	EZ001350	CUP TIGHT SCREW	カップBタイトネジ			
3	VH992400	MAIN CIRCUIT BOARD	メインシート		U	
3	VH992500	MAIN CIRCUIT BOARD	メインシート		C	
3	VH992600	MAIN CIRCUIT BOARD	メインシート		R	
3	VH992700	MAIN CIRCUIT BOARD	メインシート		A, B	
3	VH992800	MAIN CIRCUIT BOARD	メインシート		G	
4	VH993600	FUNCTION CIRCUIT BOARD	ファンクションシート		U, C, R, A, B	
4	VH993800	FUNCTION CIRCUIT BOARD	ファンクションシート		G	
5	XG633A00	POWER TRANSFORMER	電源トランス		U	
5	XG634A00	POWER TRANSFORMER	電源トランス		C	
5	XG635A00	POWER TRANSFORMER	電源トランス		R	
5	XG636A00	POWER TRANSFORMER	電源トランス		A, B	
5	XG637A00	POWER TRANSFORMER	電源トランス		G	
5-1	VH583900	SLIDE SWITCH	スライドスイッチ	IMPEDANCE 6Ω-8Ω	C	
6	CB072750	CORD STOPPER	コードストッパー		U, C	
6	CB620190	CORD STOPPER	コードストッパー		R, A, B, G	
7	HG002380	POWER CORD	電源コード		U, C	
7	HG001630	POWER CORD	電源コード		R	
7	HG002310	POWER CORD	電源コード		A	
7	HG002330	POWER CORD	電源コード		B	
7	HG000910	POWER CORD	電源コード		G	
8	LB101890	SHORT PIN	ショートプラグ			
9	Vi008900	ROTARY SWITCH, REMOTE	リモートSW			
10	VDG14100	TERMINAL	中継端子台		A, B, G	
11	Vi379900	ELECTROLYTIC CAP	ケミコン			
12	AA631640	TOP COVER	トップカバー	BL	U, C, R, A	
12	VH813700	TOP COVER	トップカバー	T	U, C, R, A	
12	Vi072200	TOP COVER ASSY	トップカバーASSY	BL	B, G	
12	Vi072300	TOP COVER ASSY	トップカバーASSY	T	B, G	
13	AA631620	BOTTOM COVER	ボトムカバー			
14	AA631600	FRAME	フレーム	T		
15	AA631610	FRAME	フレーム	R		
16	VH814900	FRAME	フレーム	K		
17	AA632200	SUPPORT	サポートシート			
18	VH813900	REAR PANEL	リヤパネル		U	
18	VH814000	REAR PANEL	リヤパネル		C	
18	VH814100	REAR PANEL	リヤパネル		R	

* : New Parts (新規部品)

ランク : Japan only

Ref. NO.	PART NO.	Description	部 品 名	Remarks	Markets	ランク
18	VH814200	REAR PANEL.	リヤパネル		A, B	
18	VH814300	REAR PANEL.	リヤパネル		G	
19	VH815400	KNOB	ノブ	BL		
19	VH815500	KNOB	ノブ	T		
20	VH815600	KNOB	ノブ	BL		
20	VH815700	KNOB	ノブ	T		
21	VH815800	KNOB	ノブ	BL	REC	
21	VH815900	KNOB	ノブ	T	REC	
22	VH816200	BUTTON	ボタン	BL		
22	VH816300	BUTTON	ボタン	T		
23	VH816000	BUTTON	ボタン	BL		
23	VH816100	BUTTON	ボタン	T		
24	VH819000	BUTTON	ボタン	BL		
24	VH812000	BUTTON	ボタン	T		
25	VH816600	ROD	ロッド			
26	V1175700	LEG	レッグ	T		
26	CR660950	LEG	レッグ	BL		
27	CR099600	PLASTIC RIVET	プラリベット			
28	V1176100	ROM BOX ASSY	ROMボックスASSY			
29	VF588300	DAMPER	ダンパー			
30	CR661140	CUSHION	クッション			
31	ED330066	BINDING HEAD SCREW	3x6 FCRM3-BL バインド小ネジ			
32	E1330086	BINDING HEAD TAPPING SCREW	3x8 FCRM3-BL バインドBタイトネジ		U, C, R	
33	EK930010	BW HEAD TAPPING SCREW	3x8-8 FCRM3-BL BWヘッドBタイトネジ			
34	EK336010	BW HEAD TAPPING SCREW	3x8-10 FCM3-BL BWヘッドタッピングネジ			
35	EX601170	CUP TYTE SCREW	3x31-8 FCRM3-BL カップBタイトネジ			
36	EK966070	BW HEAD TAPPING SCREW	4x8 FCRM3-BL BWヘッドBタイトネジ			
37	E1330146	BINDING HEAD TAPPING SCREW	3x14 FCRM3-BL バインドBタイトネジ	PACK		
38	E1330086	BINDING HEAD TAPPING SCREW	3x8 FCRM3-BL バインド小ネジ	PACK		
39	EK365040	BW HEAD SCREW	4x8-10 FNM3-BL BWヘッドSタイトネジ	T		
40	EK365090	BW HEAD SCREW	4x8-10 FCRM3-BL BWヘッドSタイトネジ	BL		
41	AA627310	GROUND TERMINAL	3x13 FNM3-3G GNDターミナル			
42	EV901360	PLAIN WASHER	3.6x10x0.8 FNM3-3G 平座金みがき丸			
43	EA340086	PAN HEAD SCREW	4x8 FCRM3-BL ナベ小ネジ			
44	E1130106	BINDING HEAD TAPPING SCREW	3x10 FCRM3-3G バインドBタイトネジ			
45	EV411036	TOOTHED LOCK WASHER	M3 FNM3-3G 歯付座金	PACK		
46	EV413036	TOOTHED LOCK WASHER	M3 FCRM3-BL 歯付座金	PACK		
60	CR069250	BINDING TIE	BK-1 束線止め			

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.
1.0 Ω	HJ353100	*	12KΩ	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	1.0MΩ	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	*
1.0KΩ	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