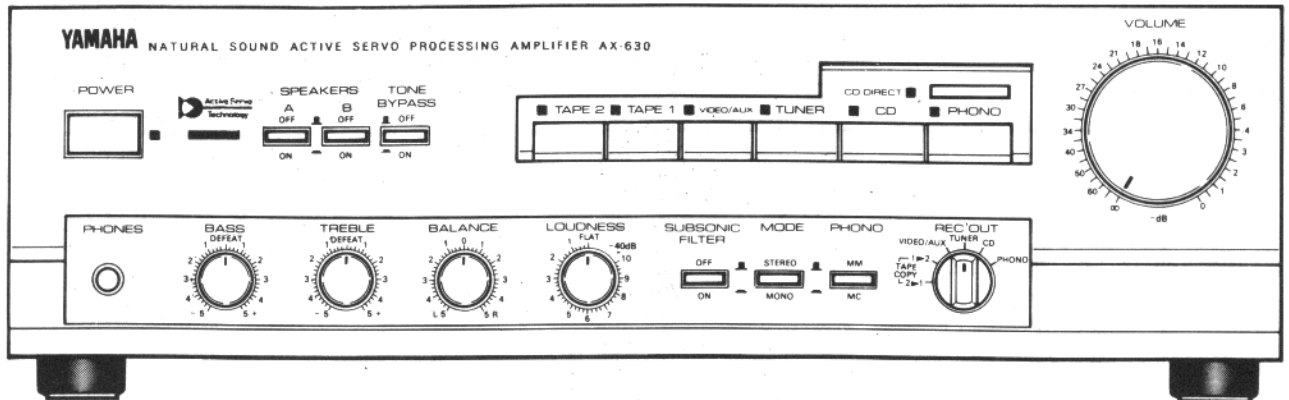


STEREO INTEGRATED AMPLIFIER AX-630

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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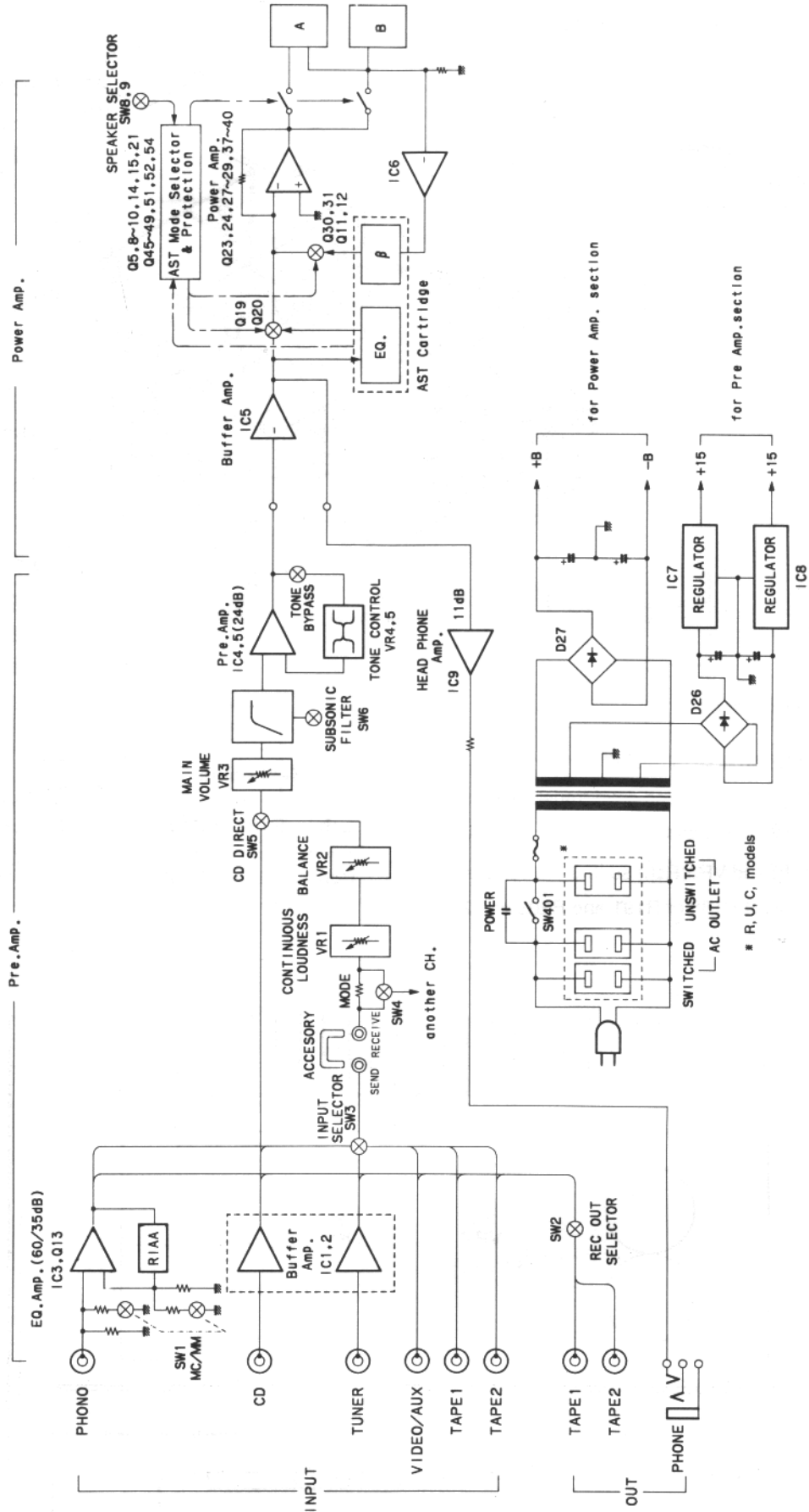
TO SERVICE PERSONNEL.....	1	ADJUSTMENTS	5
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INTERNAL VIEW	2	WIRING	7
SPECIFICATIONS.....	3	PRINTED CIRCUIT BOARD	8~13
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DISASSEMBLY PROCEDURES.....	5		

100258

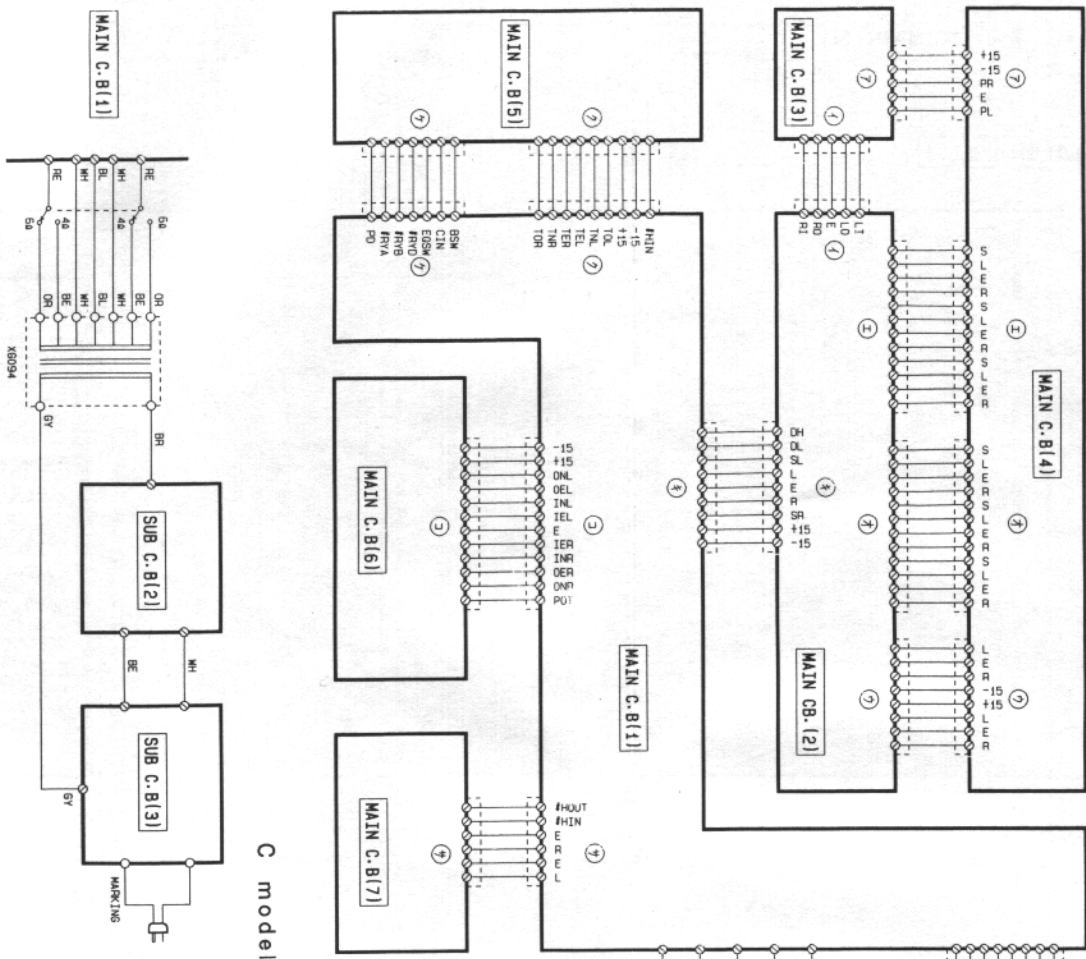
YAMAHA
YAMAHA CORPORATION
P.O. Box 1, Hamamatsu, Japan

3.7K-822 © Printed in Japan '89.5

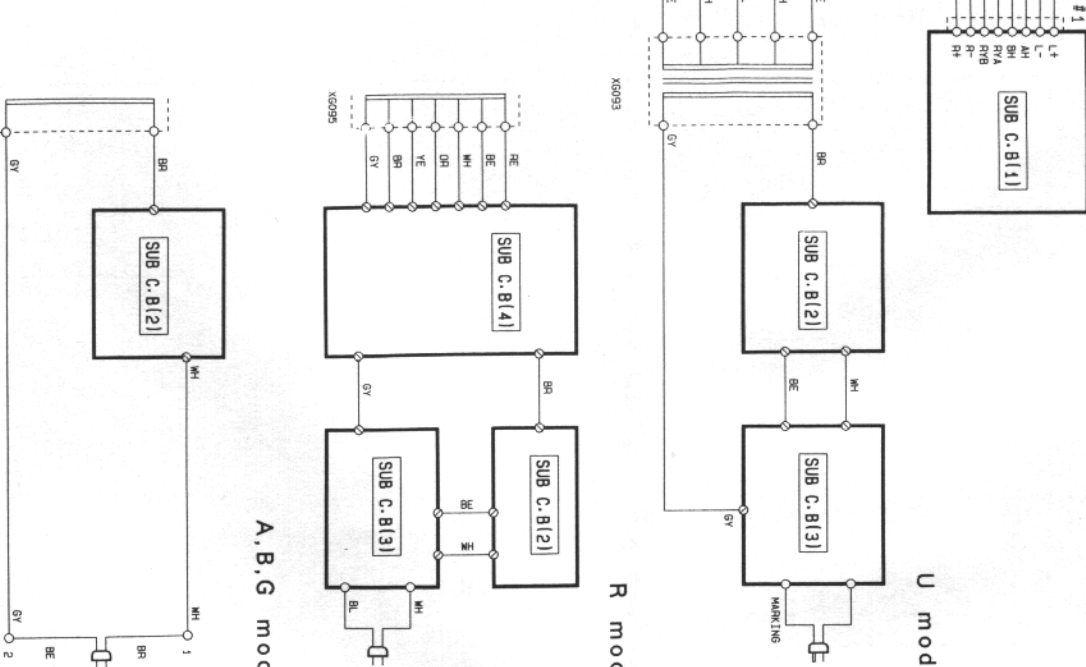
■ BLOCK DIAGRAM



WIRING



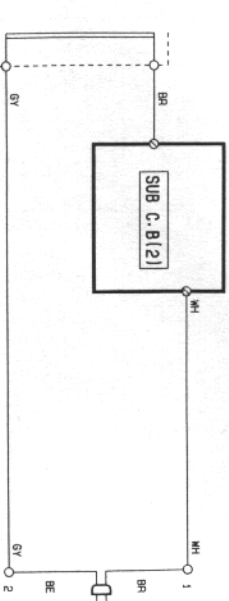
C model



U model

R model

A, B, G models



A. B. . . . X8096
G X8097

FA
)
COMMON

TPUT

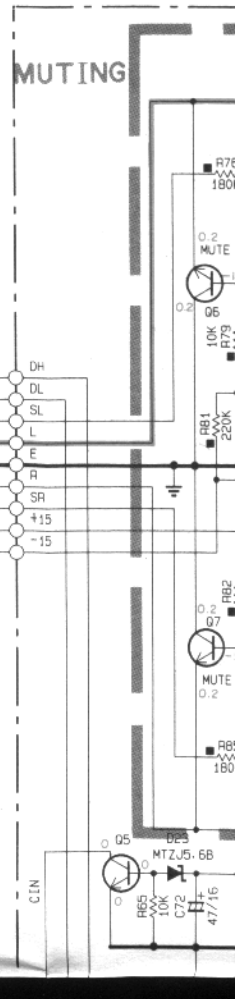
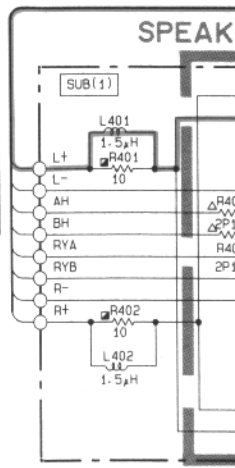
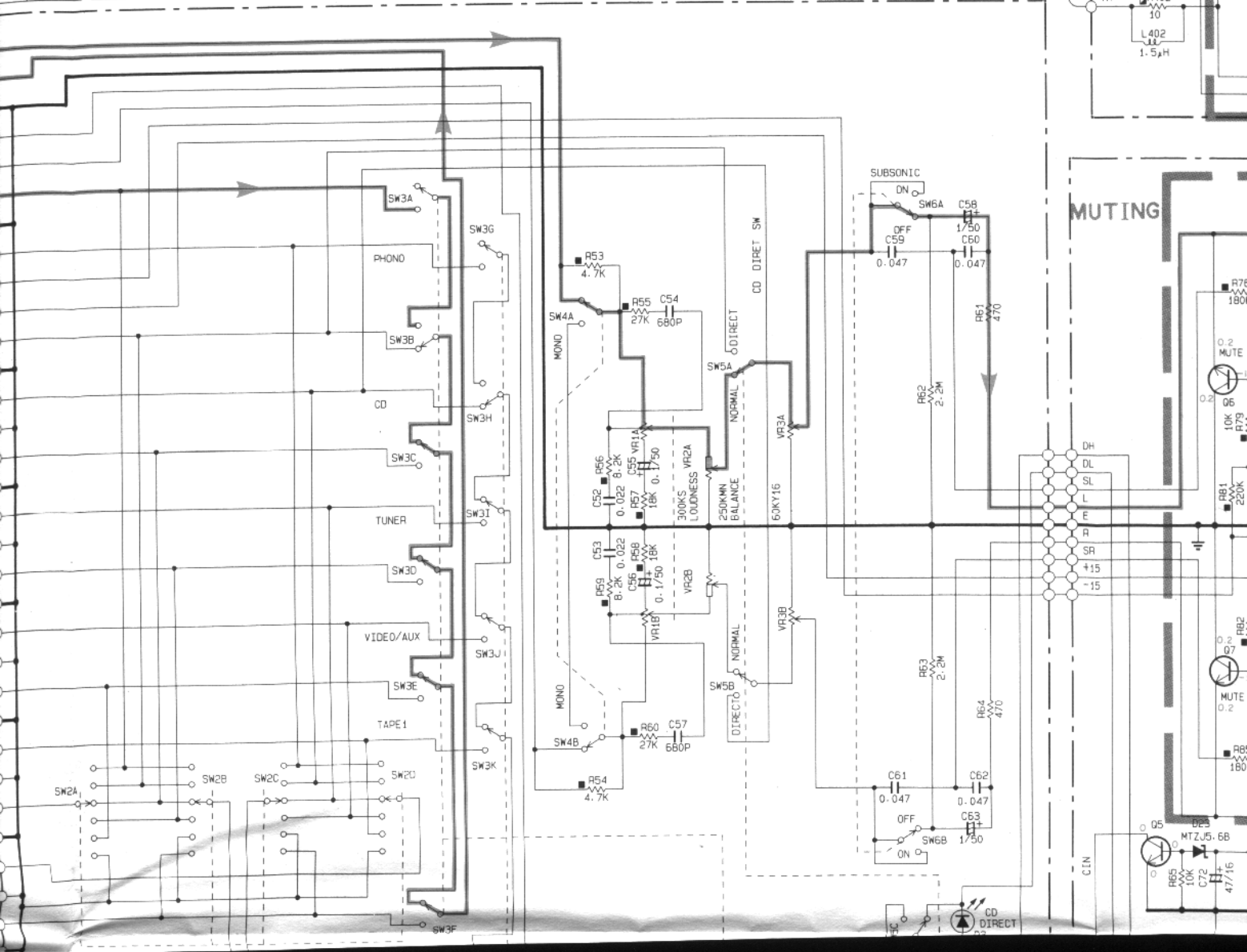
PUT

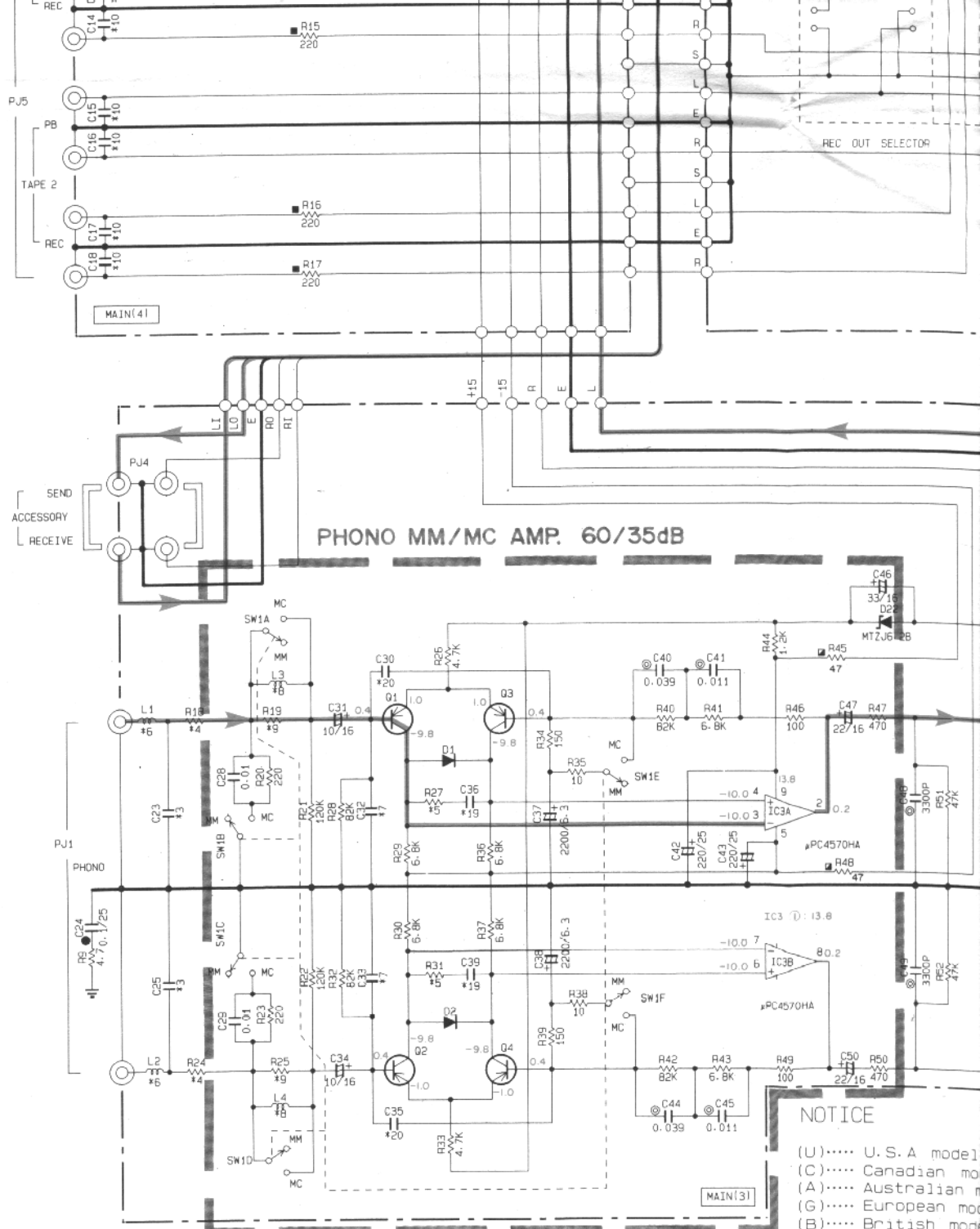
6	LAST NO.	UN LISTED NO.
0.1	C 155 409	
0.047	R 263 406	
2700P	Q 54	
100P	D 30 402	
47P	IC 9	
2.2		

CAPACITOR	
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

RESISTOR

REMARKS	PARTS NAME
□	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



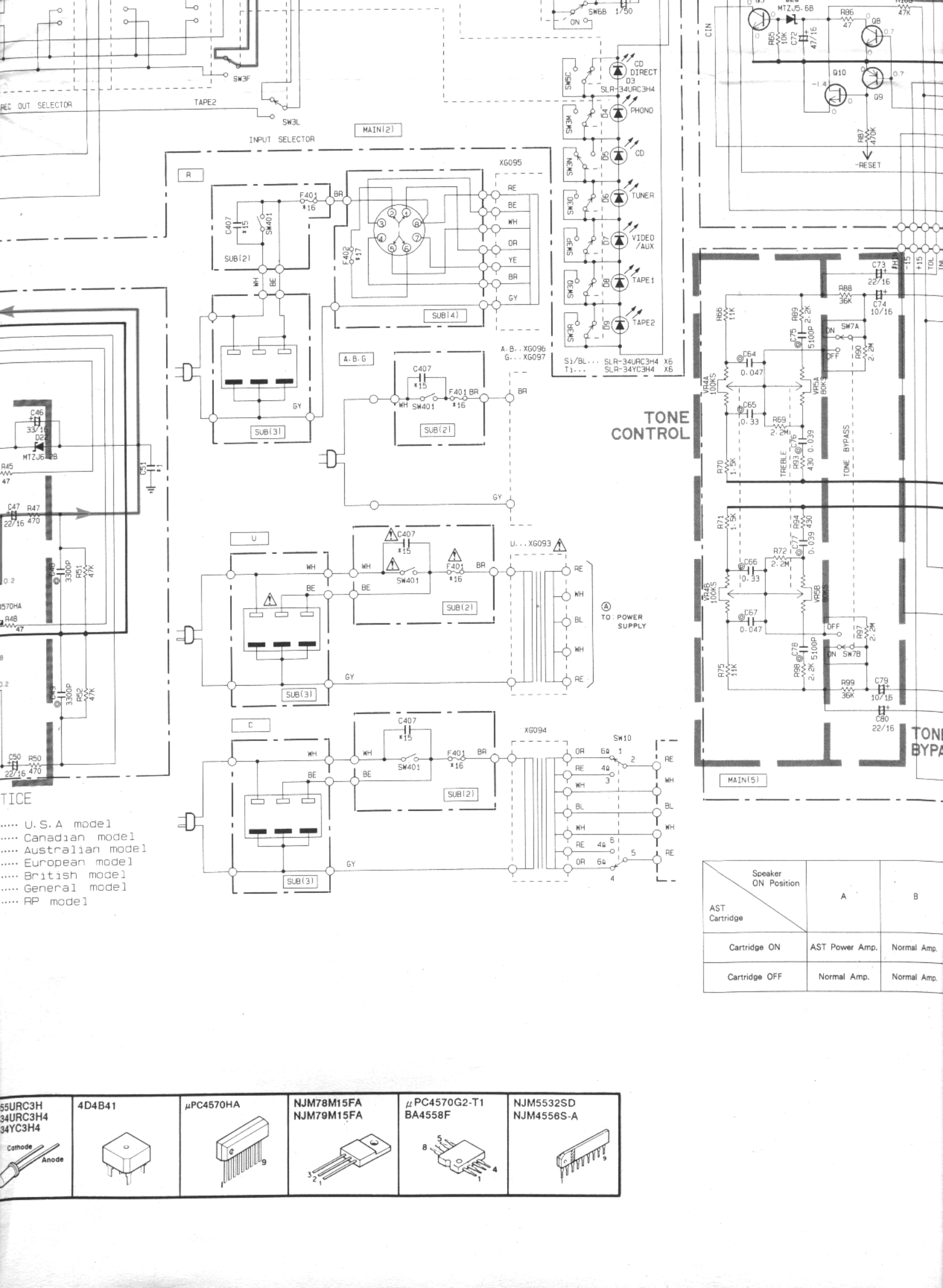


NOTICE

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

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

<p>2SA970(GR,BL) 2SC2240(GR,BL) 2SC2878(A,B) 2SK105(F,H)</p>	<p>2SA1115 2SA2803 DTA144ES DTC144ES DTA124ES</p>	<p>2SC2705(O,Y) 2SA1145</p>	<p>2SA1358 2SC3421</p>	<p>2SA1349</p>	<p>MTZJ6.2B 1SS133 MTZJ3.6A MTZJ5.6B</p>	<p>SLR-55URC3H SLR-34URC3H4 SLR-34YC3H4</p>	<p>4D4B41</p>
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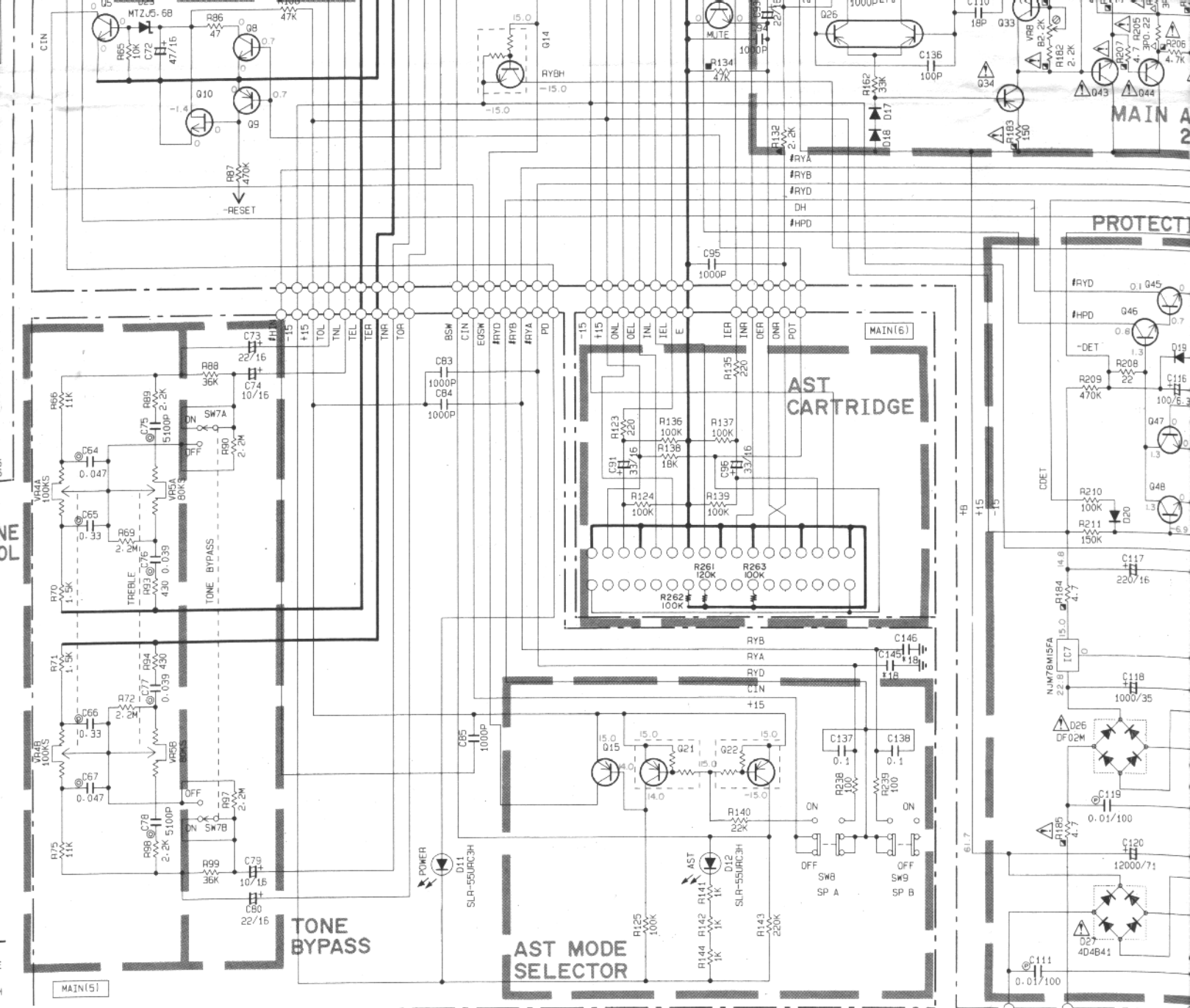


- TICE
- U.S.A model
 - Canadian model
 - Australian model
 - European model
 - British model
 - General model
 - RP model

TO : POWER SUPPLY

Speaker ON Position	AST Cartridge	
	A	B
Cartridge ON	AST Power Amp.	Normal Amp.
Cartridge OFF	Normal Amp.	Normal Amp.

55URC3H 34URC3H4 34YC3H4 	4D4B41 	μPC4570HA 	NJM78M15FA NJM79M15FA 	μPC4570G2-T1 BA4558F 	NJM5532SD NJM4558S-A
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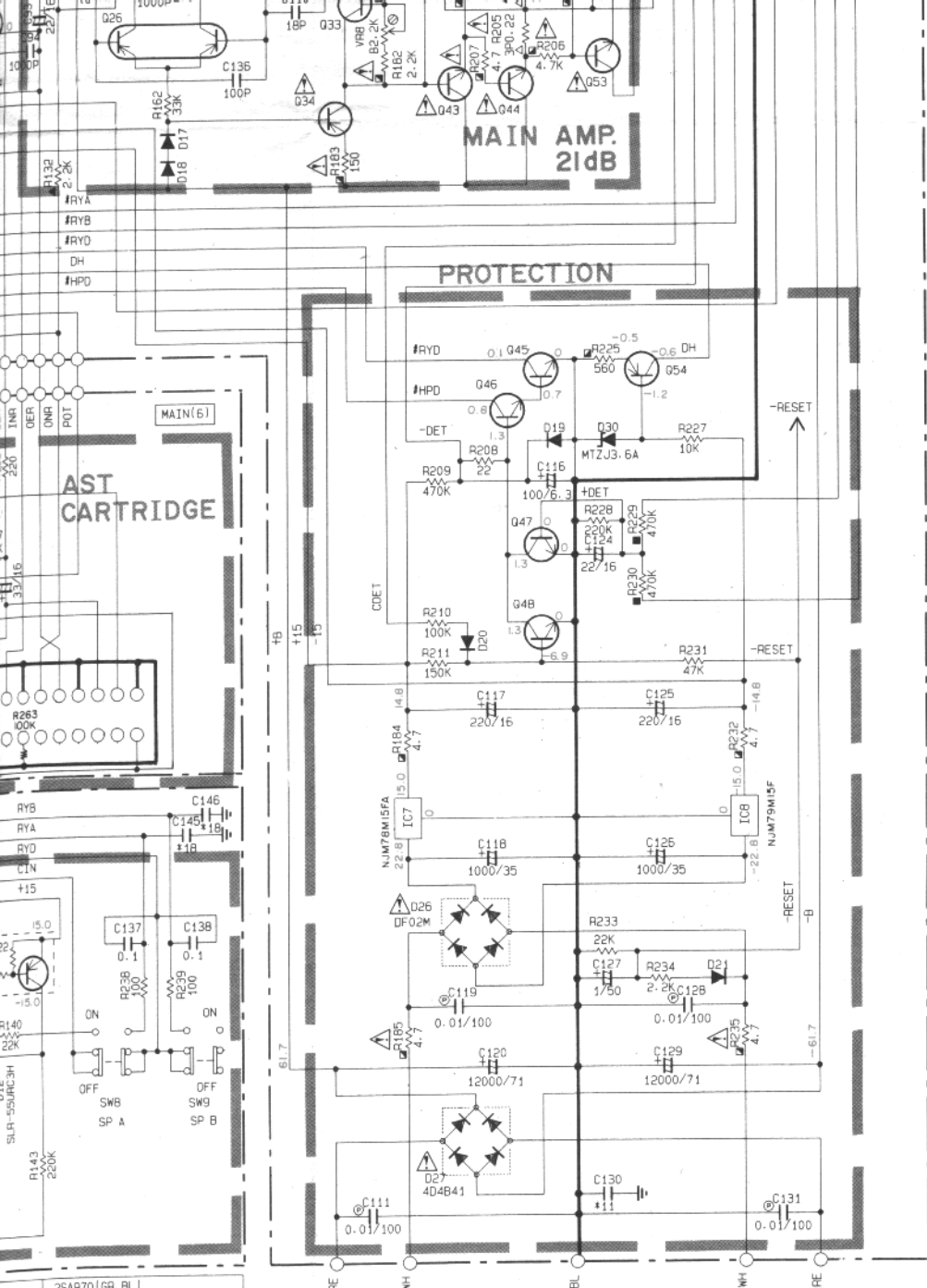
Speaker ON Position	A	B	A + B	
			A : Speaker Terminal	B : Speaker Terminal
Cartridge ON	AST Power Amp.	Normal Amp.	AST Power Amp.	-
Cartridge OFF	Normal Amp.	Normal Amp.	Normal Amp.	Normal Amp.

Q1-4, 49, 52	2SA970 (GR. BL.)
Q27, 34	2SA1145 (O. Y.)
Q24, 25, 28, 33, 45, 51, 53	2SC2240 (GR. BL.)
Q6, 7, 11, 12, 19, 20, 30, 31, 35, 36	2SC2678 (A. B.)
Q29, 32	2SC2705 (O. Y.)
Q39, 41	2SA1358
Q37, 43	2SC3421
Q23, 26	2SA1349 (GR. BL.)
Q9, 15, 17, 18, 54	2SA1115 (E. F.)
Q5, 8, 46-48	2SC2603 (E. F.)
Q21	DTA144ES
Q14	DTC144ES
Q22	DTA124ES
Q10	2SK105 (E. F.) or 2SK105 (F. H.)

Q40, 42	2SA1301
Q38, 44	2SC3280

Unless otherwise specified
DIODE 1SS133

• All vo
• Comp
replac
• Schem



25A970 (GR. BL)
25A1145 (O. Y)
25C2240 (GR. BL)
25C2878 (A. B)
25C2705 (O. Y)
25A1358
25C3421
25A1349 (GR. BL)
25A1115 (E. F)
25C2603 (E. F)
DTA144ES
DTC144ES
DTA124ES
25K105 (E. F) or 2SK105 (F. H)

Q40.42	25A1301 (R. O)
Q38.44	25C3280 (R. O)

Unless otherwise specified
 DIODE 1SS133

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