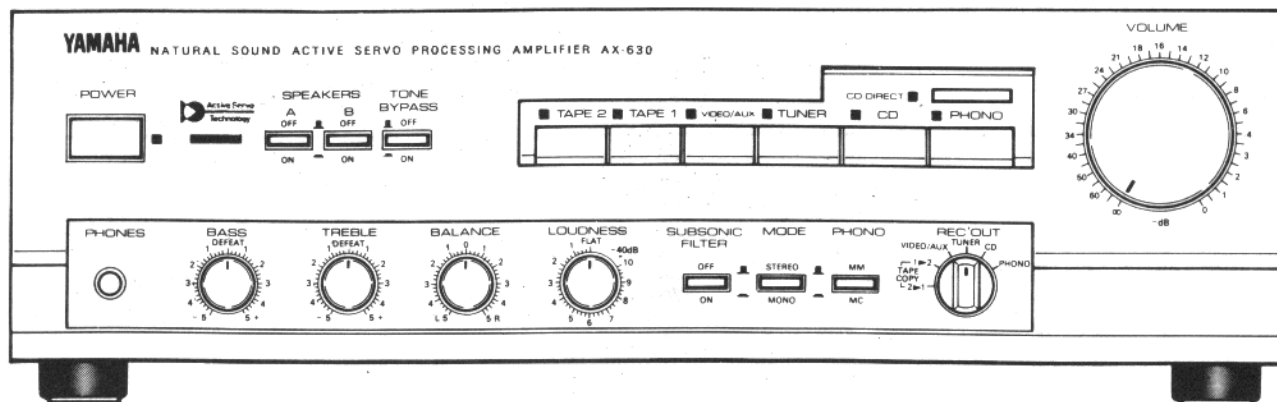


STEREO INTEGRATED AMPLIFIER

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).

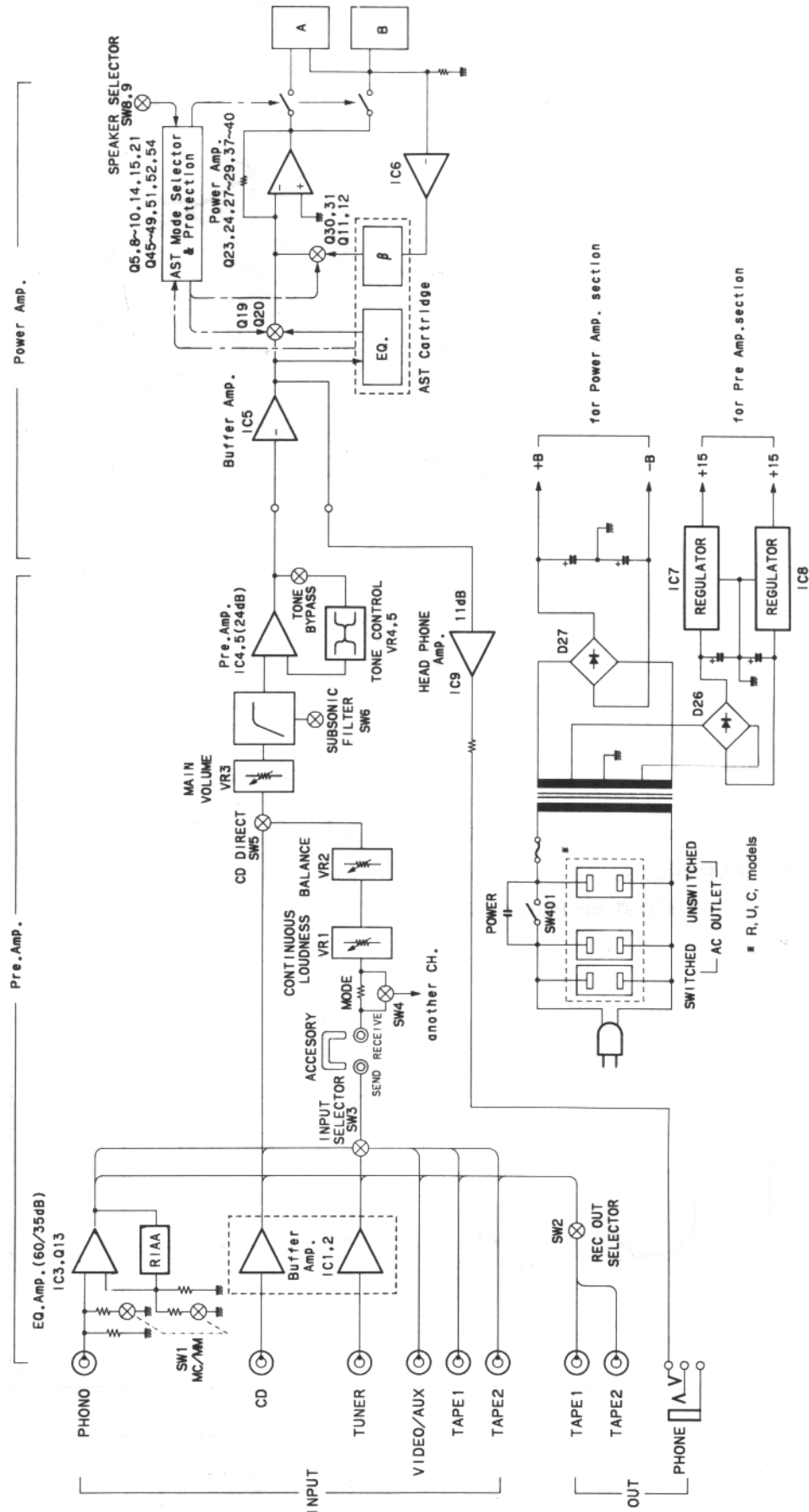
IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

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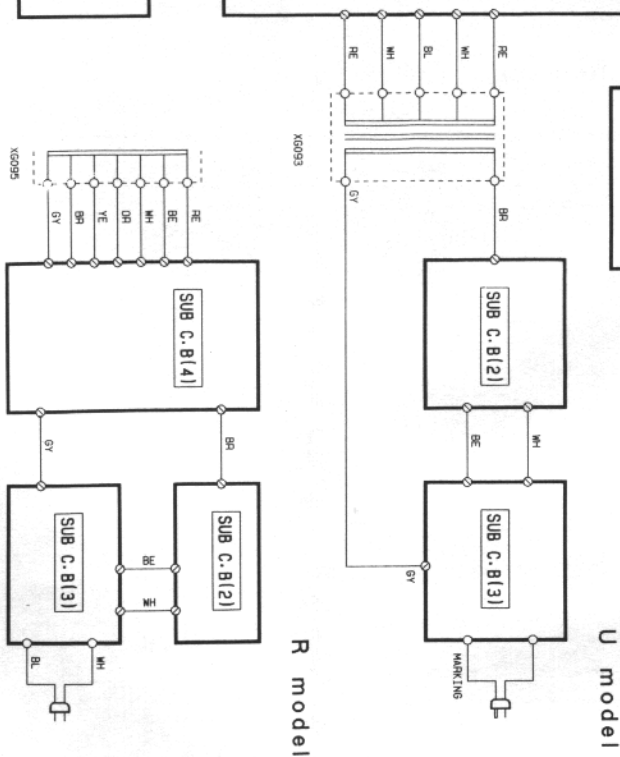
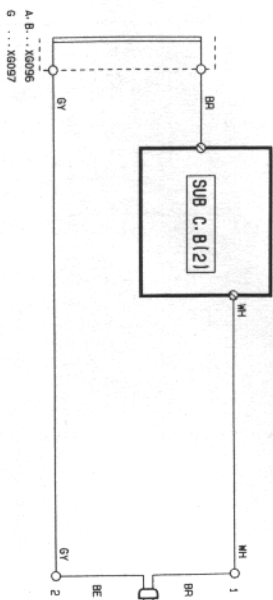
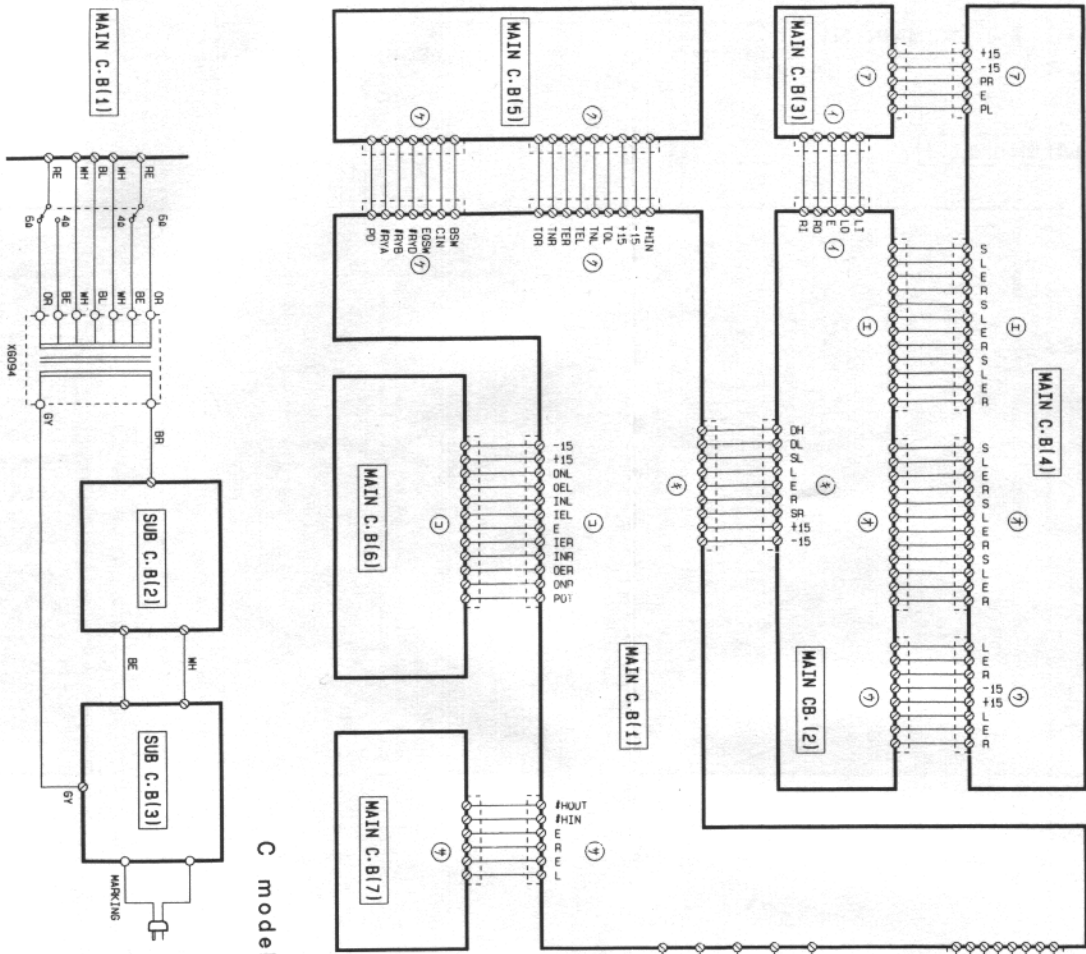
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■ BLOCK DIAGRAM



WIRING



U model

R model

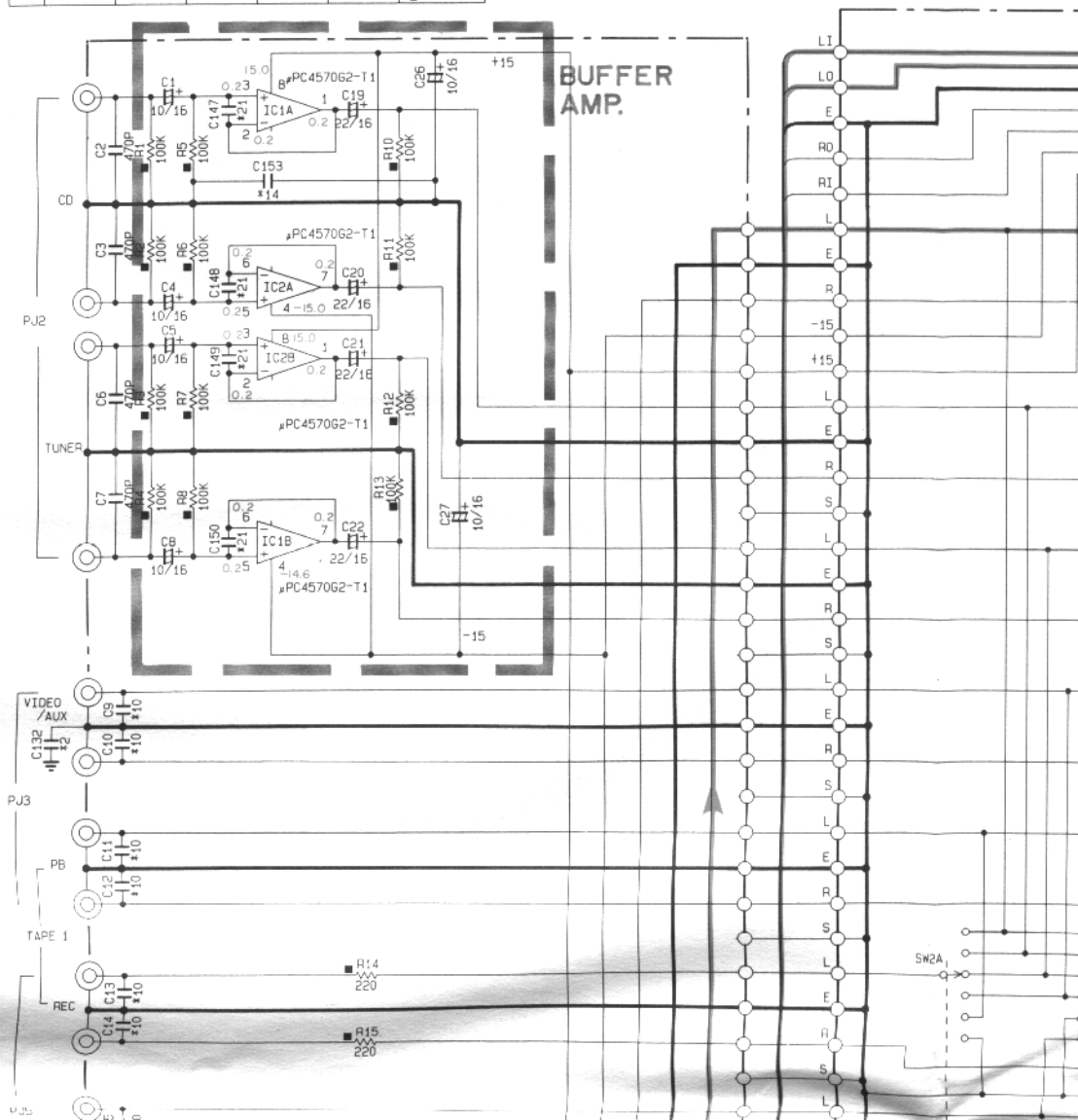
A, B, G models

C model

		J	U.C	R	A.B	G
*1	C51	OPEN			▷	5600P
*2	C132	OPEN			▷	0.01
*3	C23.25	OPEN			▷	220P
*4	R18.24	10			▷	33
*5	R27.31	100			▷	180
*6	L1.2	SHORT				15 _μ H
*7	C32.33	220P			▷	270P
*8	L3.4	OPEN			▷	220 _μ H
*9	R19.25	33				2.2K
*10	C9-18	OPEN			▷	470P
*11	C130	OPEN			▷	Ⓟ 0.01/100
*12	C402.405	OPEN			▷	0.022
*13	C401.406 C403.404	OPEN			▷	Ⓢ 0.01

		J	U.C	R	A.B	G
*14	C151-152 C153	OPEN				0-1
*15	C407	0.01/250	0.01			
*16	F401	7.0A250V	7A125V	7.0A250V	T2.5A250V	
*17	F402	OPEN		3.5A250V	OPEN	
*18	C145-146 C408-409	OPEN				0-047
*19	C36-39	1500P				2700P
*20	C30-35	OPEN				100P
*21	C147-148 C149-150	OPEN				47P
*22	R405-406	OPEN				2-2

	LAST NO.
C	155 409
R	263 406
Q	54
D	30 402
IC	9

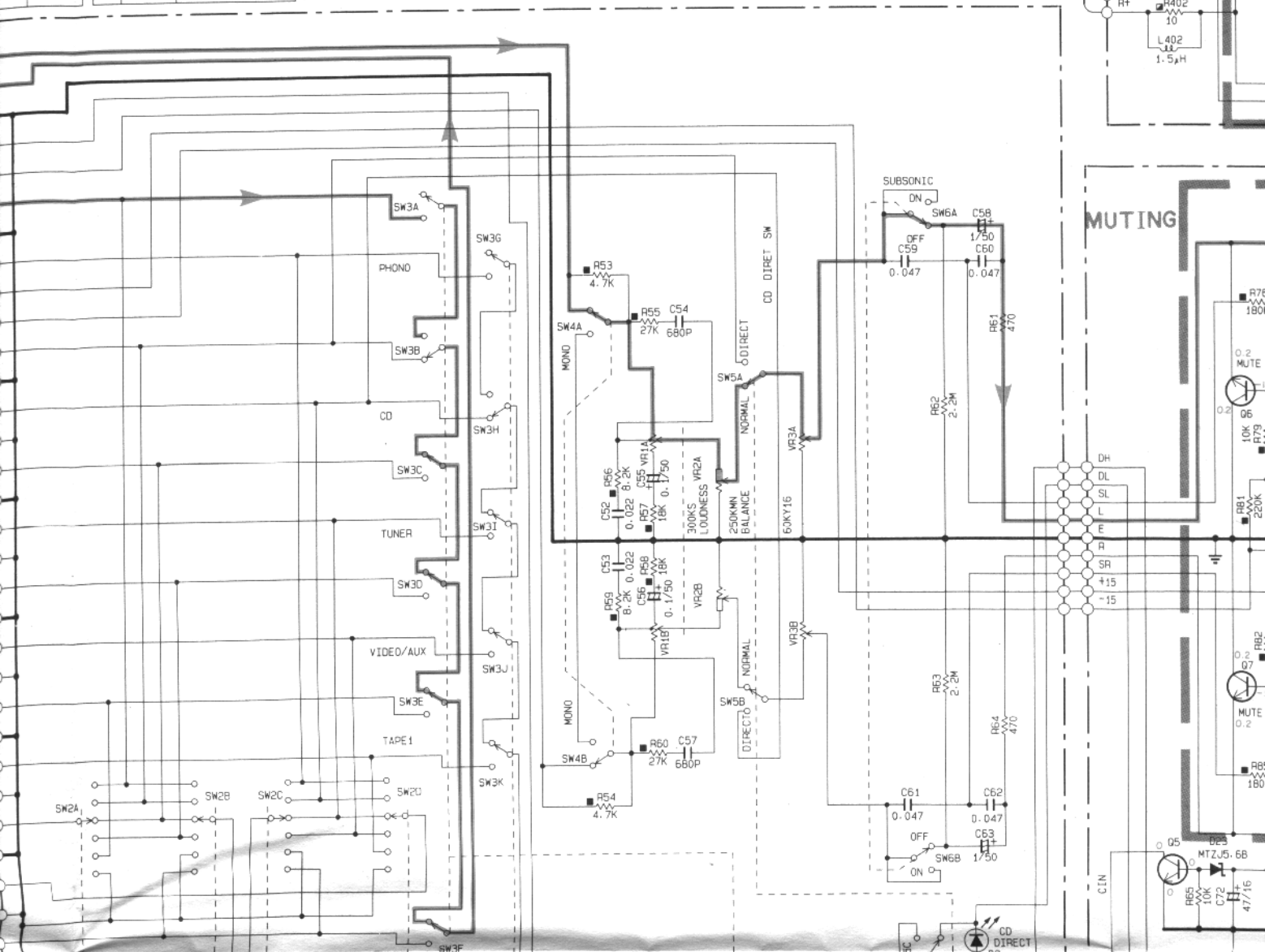


	G	LAST NO.	UN LISTED NO.
0.1	C	155 409	
0.047	R	263 406	
2700P	Q	54	
100P	D	30 402	
47P	IC	9	
2.2			

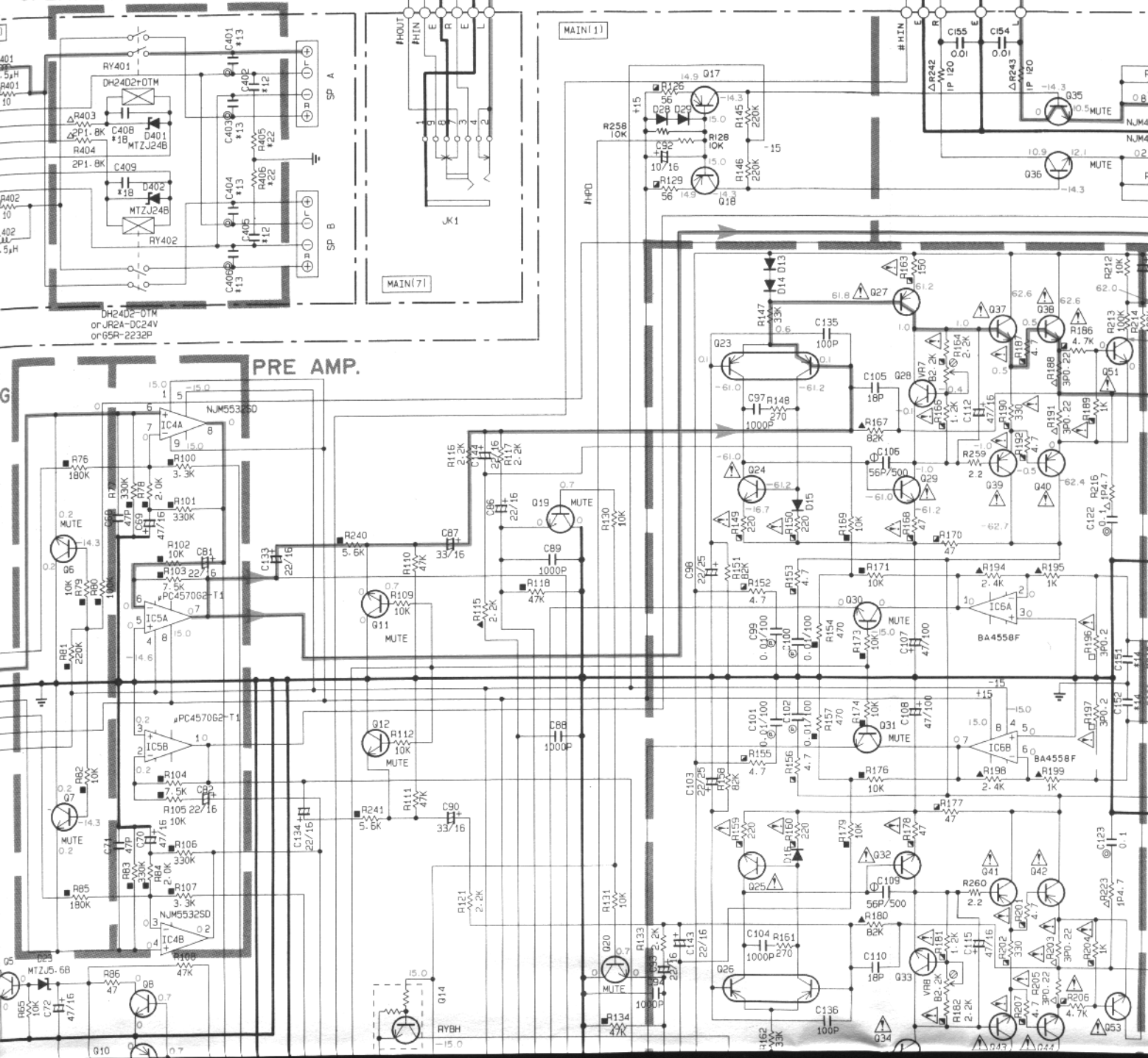
CAPACITOR	REMARKS	PARTS NAME	
NO MARK	⊗	ELECTROLYTIC CAPACITOR	⏏
NO MARK	⊗	TANTALUM CAPACITOR	⏏
NO MARK	⊗	CERAMIC CAPACITOR	⏏
NO MARK	⊗	POLYESTER FILM CAPACITOR	⏏
NO MARK	⊗	POLYSTYRENE FILM CAPACITOR	⏏
NO MARK	⊗	MICA CAPACITOR	⏏
NO MARK	⊗	POLYPROPYLENE FILM CAPACITOR	⏏
NO MARK	⊗	SEMICONDUCTIVE CERAMIC CAPACITOR	⏏

RESISTOR

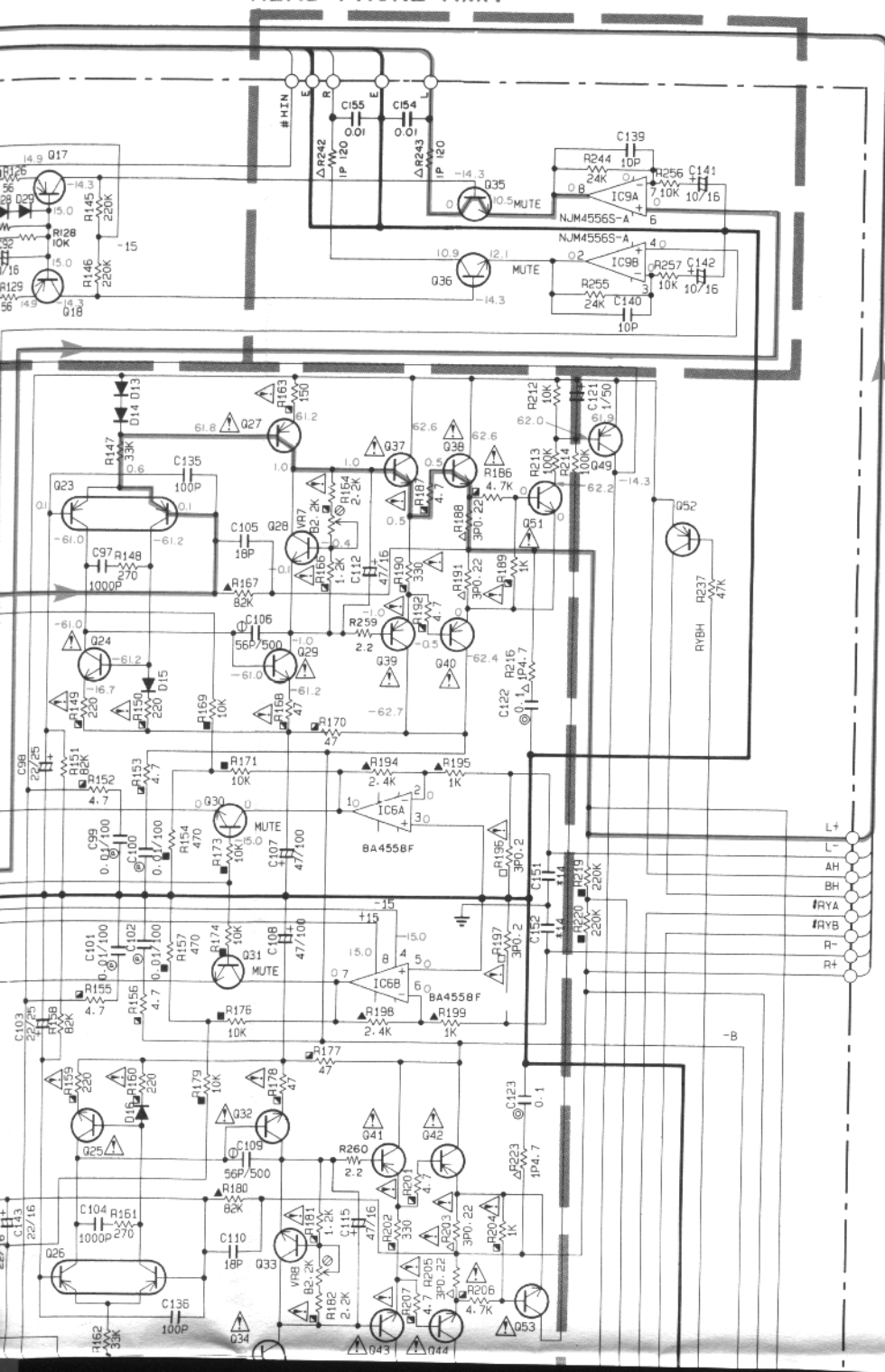
REMARKS	PARTS NAME
NO MARK	CARBON FILM RESISTOR (1/6W)
NO MARK	CARBON FILM RESISTOR (1/4W)
NO MARK	METAL OXIDE FILM RESISTOR
NO MARK	METEL FILM RESISTOR
NO MARK	METEL PLATE RESISTOR
NO MARK	FIRE PROOF CARBON FILM RESISTOR
NO MARK	SEMENT MOLDED RESISTOR
NO MARK	SEMI VARIABLE RESISTOR
NO MARK	CHIP RESISTOR

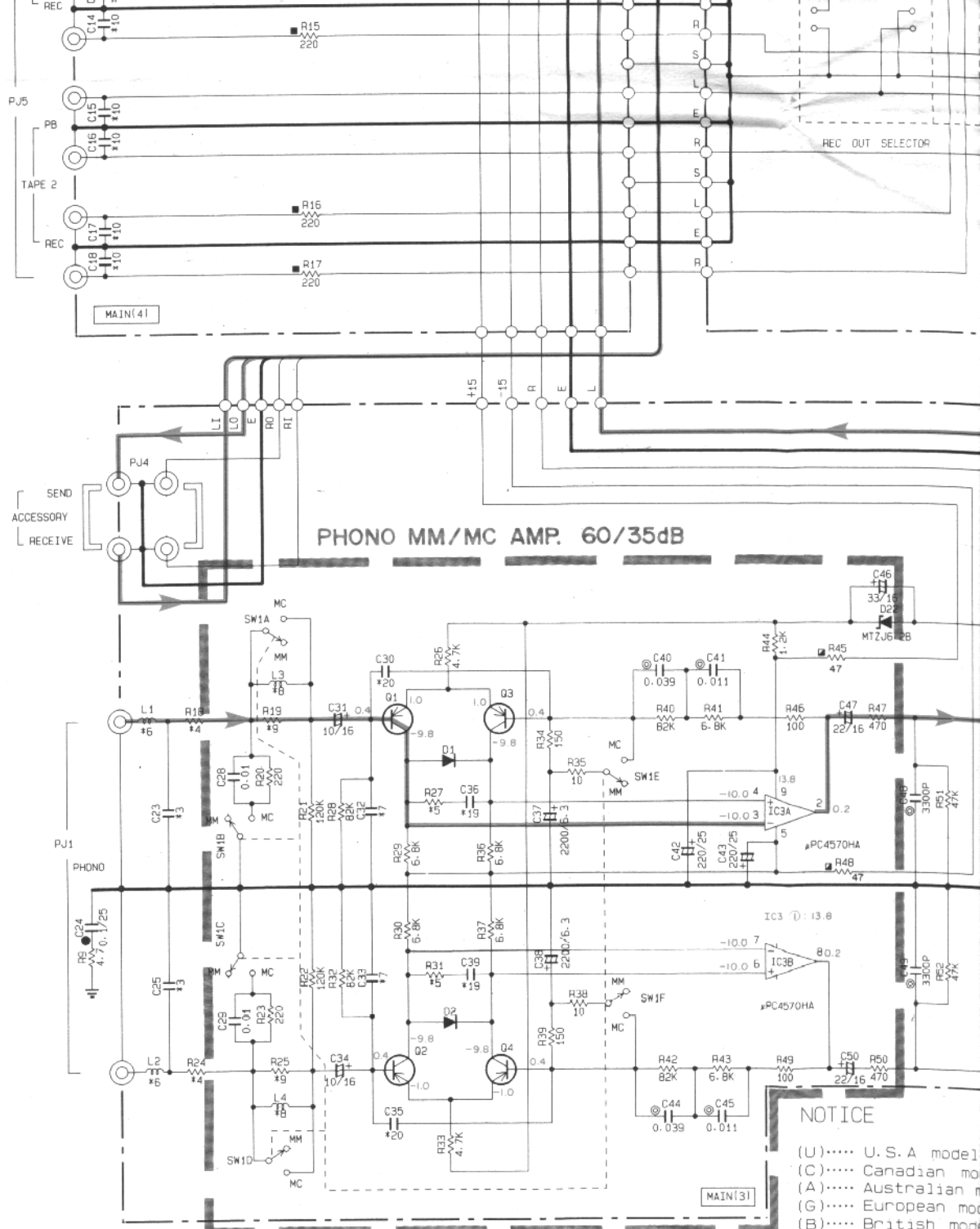


HEAD PHONE AMP.



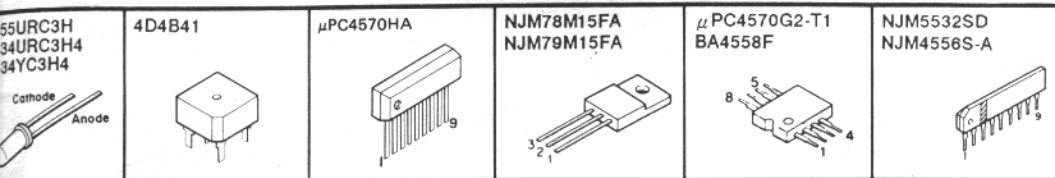
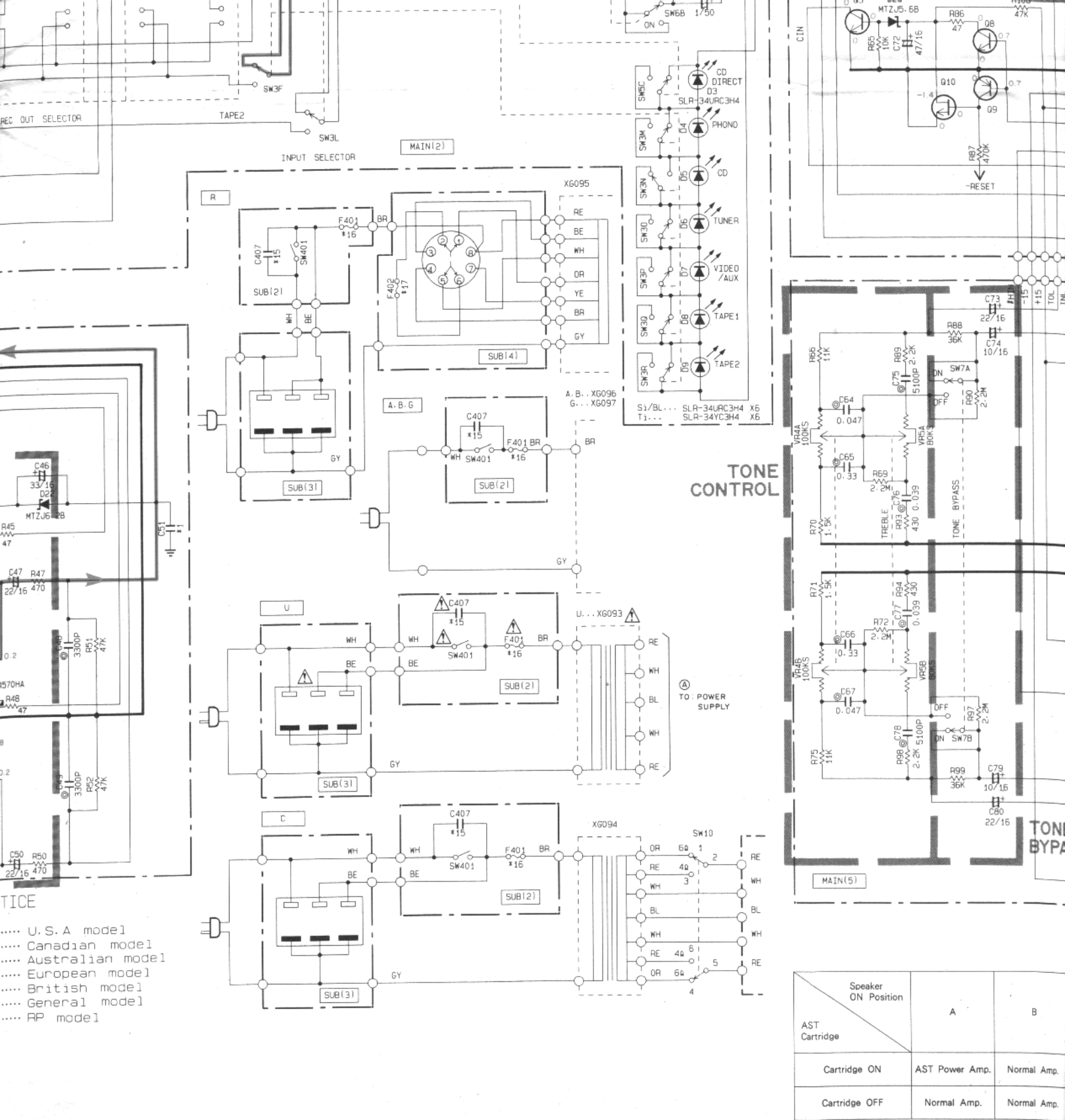
HEAD PHONE AMP.

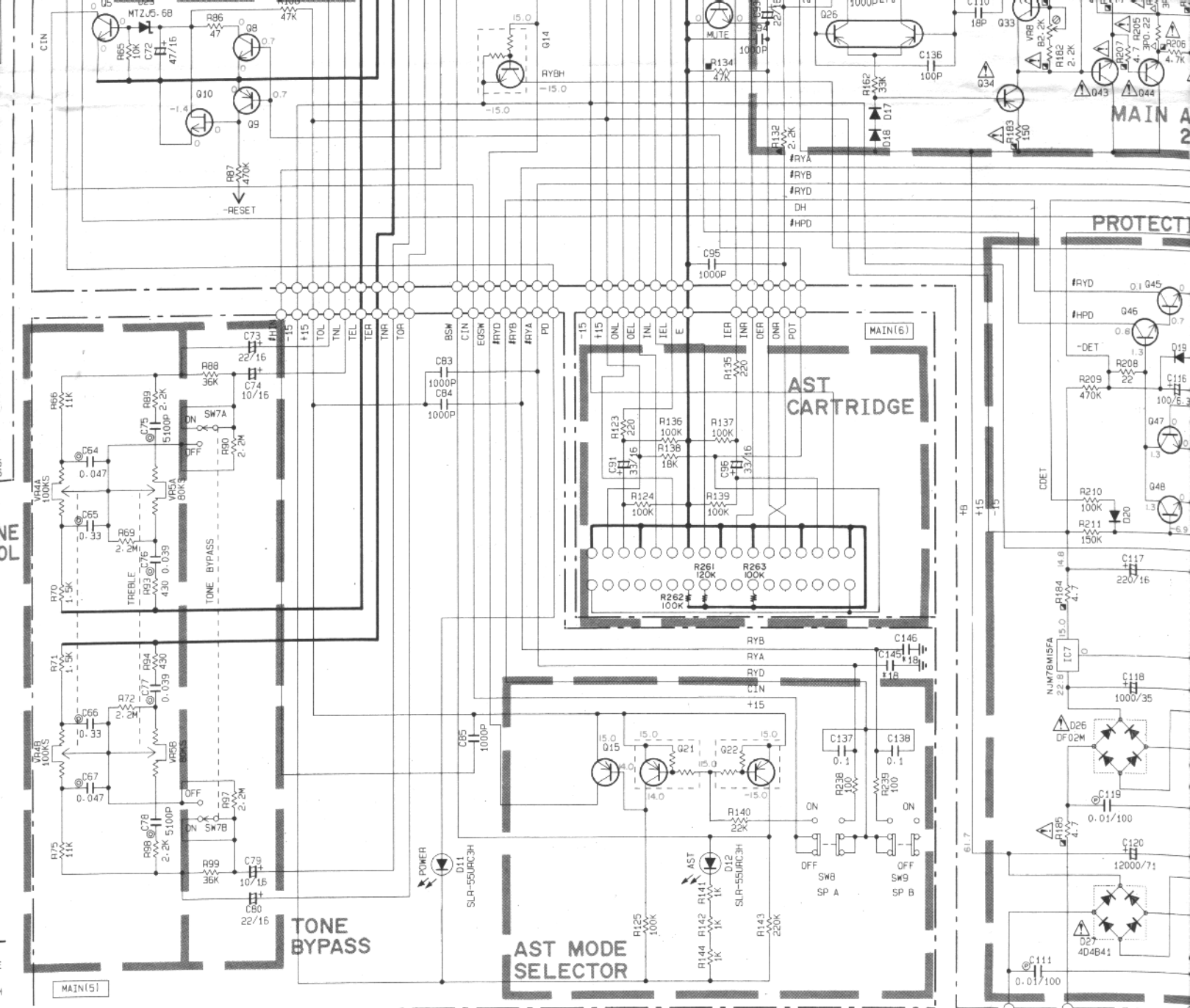




PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

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





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 vol
• Comp
• replac
• Schen

