

STEREO POWER AMPLIFIER MX-600/U/MX-50

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).

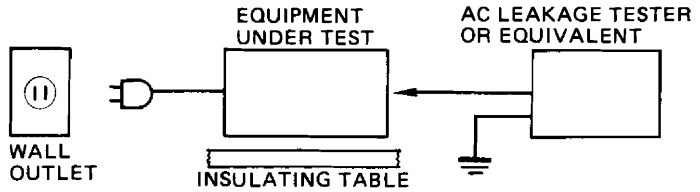
IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

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TO SERVICE PERSONNEL

1. 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 (U, C models only)

This amplifier 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.

SPECIFICATIONS

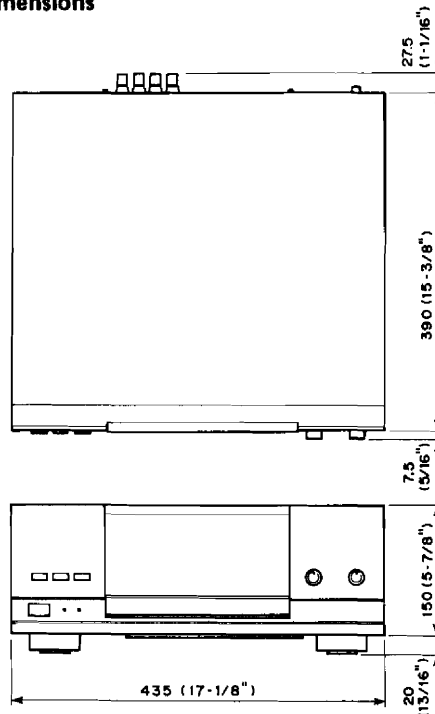
Minimum RMS Output Power per Channel	
20Hz ~ 20kHz	
0.003% THD, 8 Ω	135W (U, C), 125W (R, A, B, G)
0.007% THD, 6 Ω	160W (U, C), 150W (R, A, B, G)
0.02% THD, 4 Ω	190W (U, C, R, A)
Dynamic Power per Channel (by IHF Dynamic Headroom measuring method)	
8 Ω	220W (U, C), 175W (R, A, B, G)
6 Ω	265W (U, C), 220W (R, A, B, G)
4 Ω	360W (U, C), 290W (R, A, B, G)
2 Ω	480W (U, C), 390W (R, A, B, G)
1 Ω	500W (U, C), 420W (R, A, B, G)
DIN Standard Output Power per Channel	
1kHz, 1% THD, 4 Ω	215W (G)
Dynamic Headroom	
8 Ω	2.12dB
6 Ω	2.19dB
4 Ω	2.78dB
IEC Power (1kHz, 0.01% THD)	
8 Ω	140W (G)
6 Ω	170W (G)
Power Band Width	
0.03% THD, 62.5W, 8 Ω	10kHz ~ 60kHz
Damping Factor	
8 Ω , 1kHz	70
Input Sensitivity/Impedance	
MAIN IN	1.14V/60k Ω
Frequency Response (20Hz ~ 20kHz)	
MAIN IN	+0, -0.2dB
Total Harmonic Distortion	
20Hz ~ 20kHz	
MAIN IN TO SP OUT (62.5W/8 Ω)	0.003%
Intermodulation Distortion	
Rated Output/8 Ω	0.003%
Signal to Noise Ratio (IHF-A Network)	
MAIN IN (Shot)	123dB
MAIN IN (5.1k Ω terminated)	119dB
Residual Noise (IHF-A Network)	
	16 μ V
Channel Separation (Vol. -30dB)	
Input Shorted (1kHz/10kHz)	89dB/70dB
Power Supply	
	AC220/240V, 50Hz (B, G)
	AC110/120/220/240V, 50/60Hz (R)
	AC240V, 50Hz (A)
	AC120V, 60Hz (U, C)

Power Consumption	650W, 800VA (U, C) 500W (R) 650W (A, B, G)
AC Outlet	Un Switched x 1 200W max. (U, C, R)
Dimensions (W x H x D)	435 x 170 x 425mm (17-1/8" x 6-11/16" x 16-3/4")
Weight	13kg (28 lbs 11 oz)

*Specifications are subject to change without notice.

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

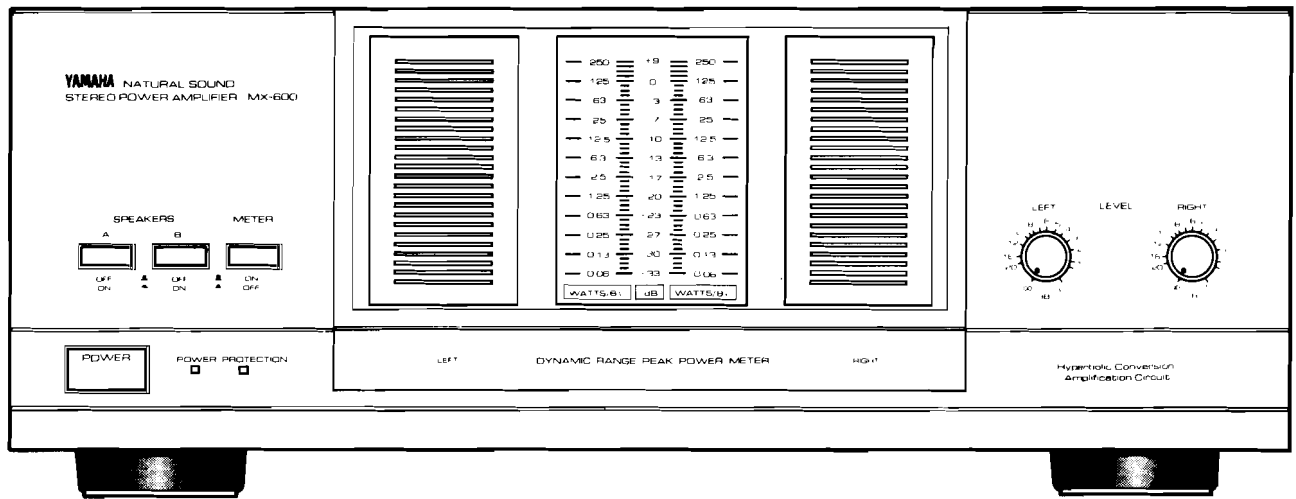
• Dimensions



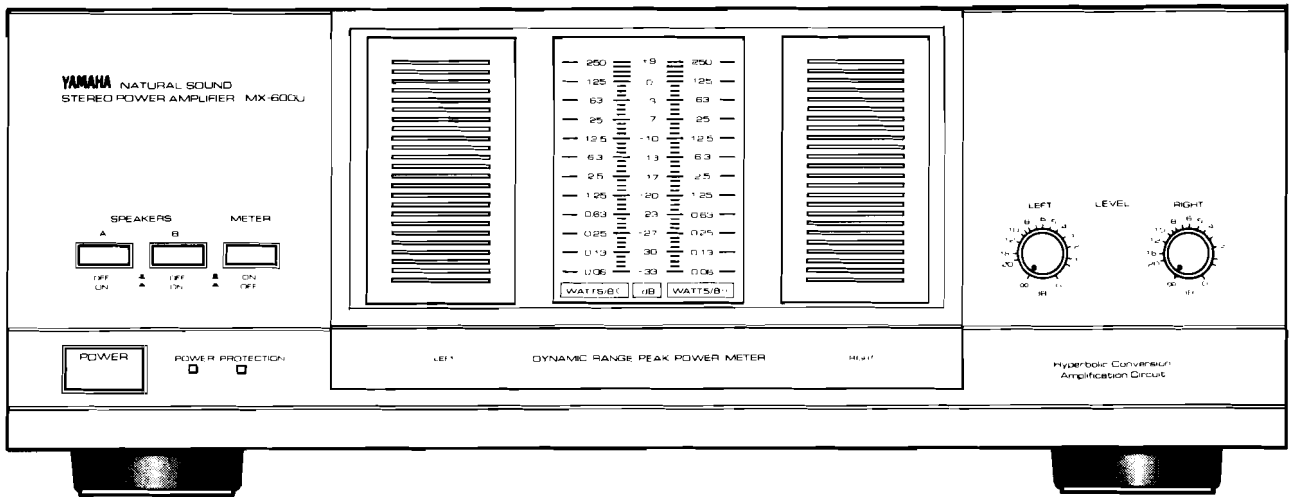
Unit : mm (inch)

FRONT PANELS

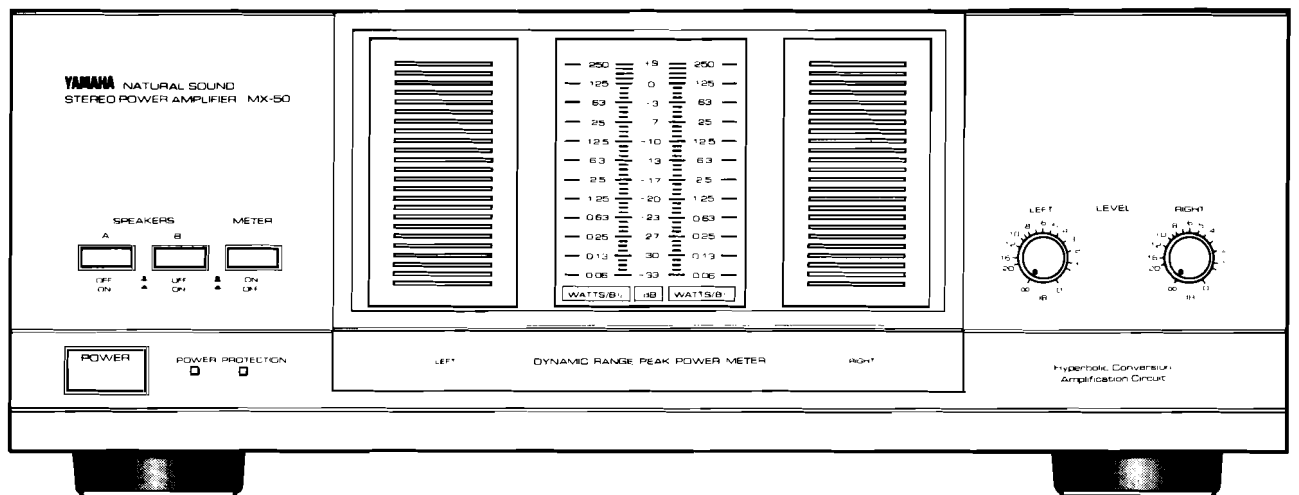
● MX-600 (General & Australian models)



● MX-600U (U.S.A. & Canadian models)

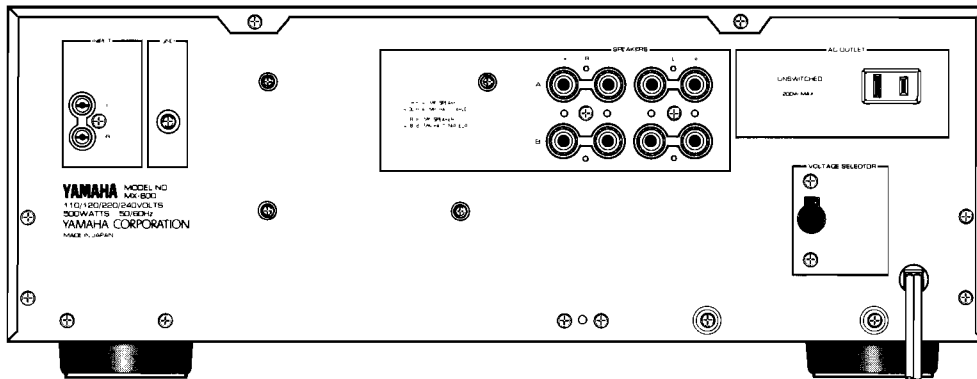


● MX-50 (British & European models)

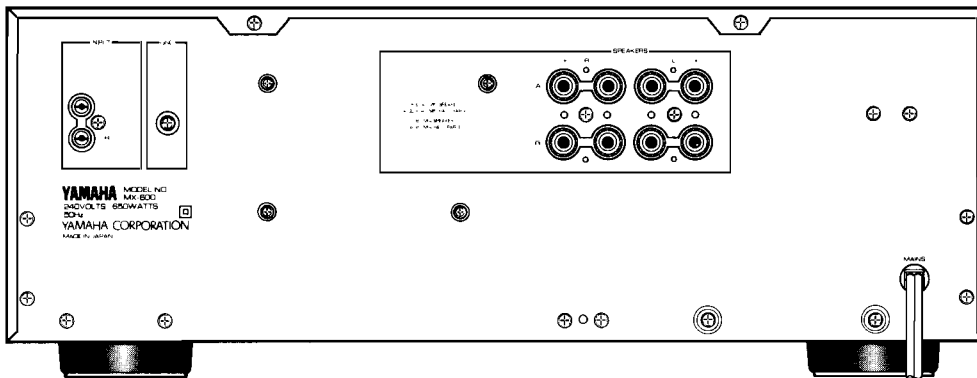


REAR PANELS

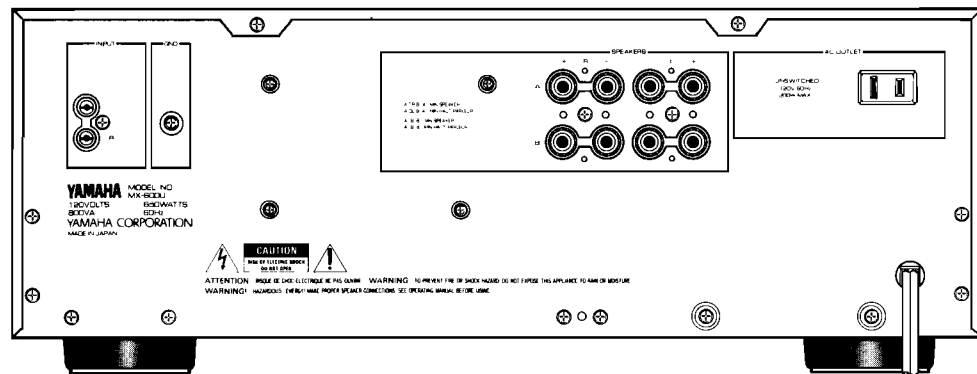
General model



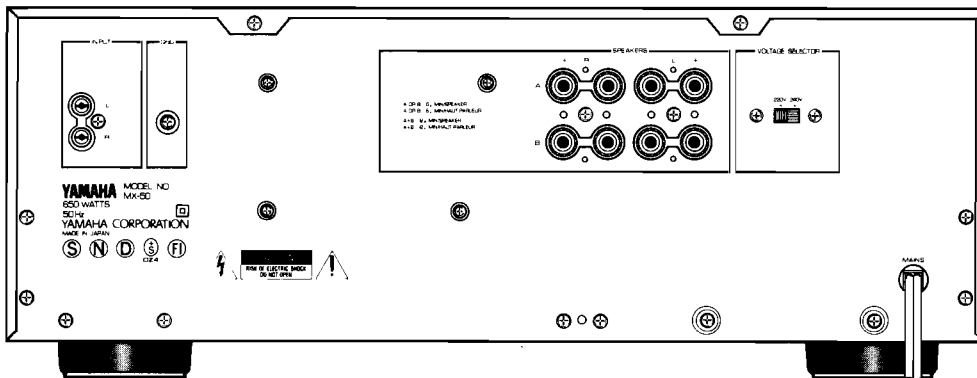
Australian model



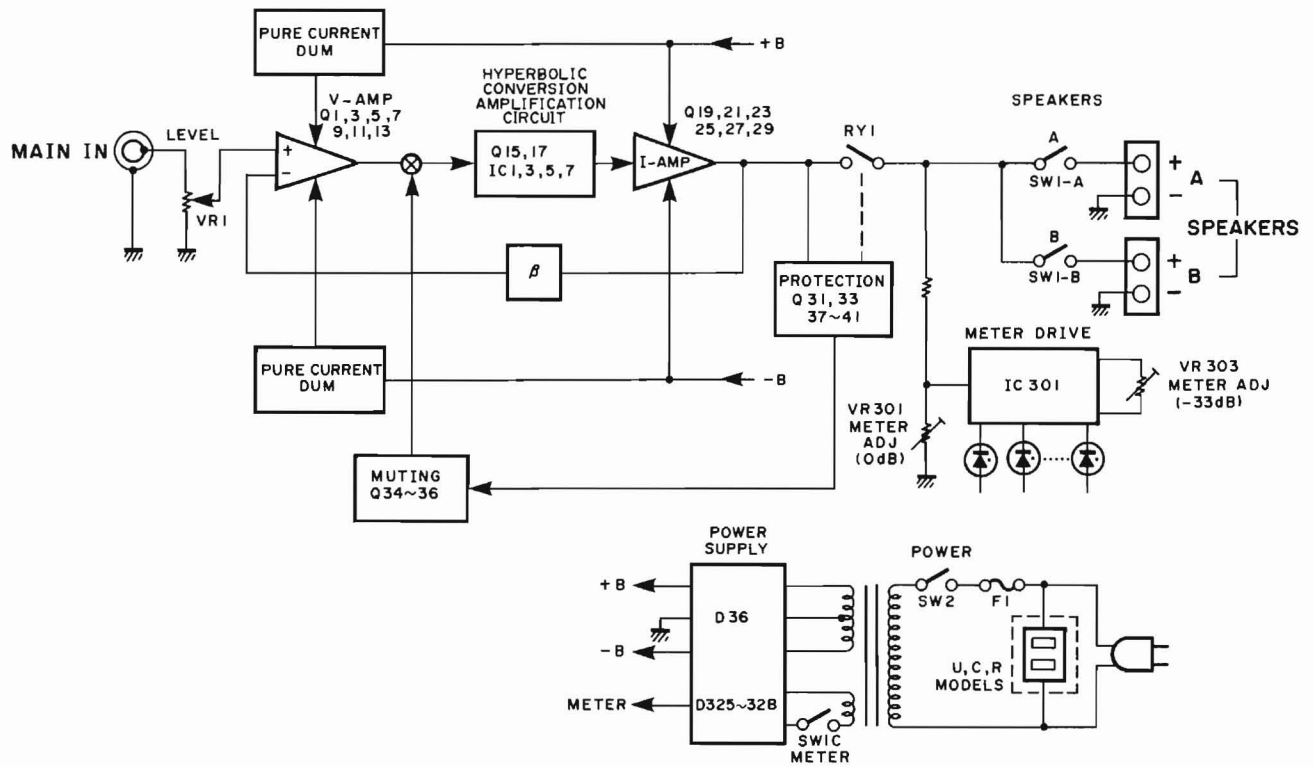
U.S.A. & Canadian models



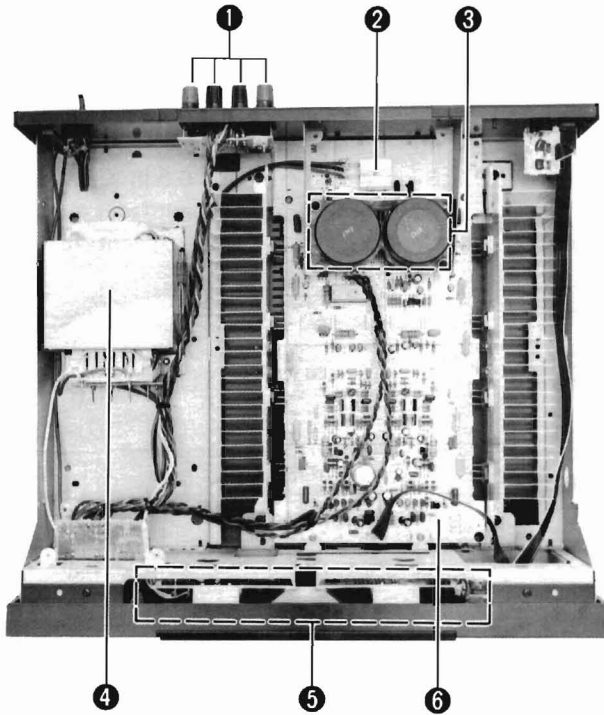
British & European models



■ BLOCK DIAGRAM



■ INTERNAL VIEW



- ① SPEAKER TERMINAL
- ② DIODE BRIDGE : 4D4B41
- ③ ELECTROLYTIC CAP. SET
- ④ POWER TRANSFORMER
 - U model : XE217001
 - C model : XE218001
 - R model : XE219001
 - A model : XE220001
 - B, G models : XE221001
- ⑤ METER UNIT
- ⑥ MAIN CIRCUIT BOARD (1)

DISASSEMBLY PROCEDURES

1. Removal of Top Cover

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

2. Removal of Bottom Cover

Remove 6 screws (②) in Fig. 1.

3. Removal of Front Panel

Remove 5 screws (③) in Fig. 1.

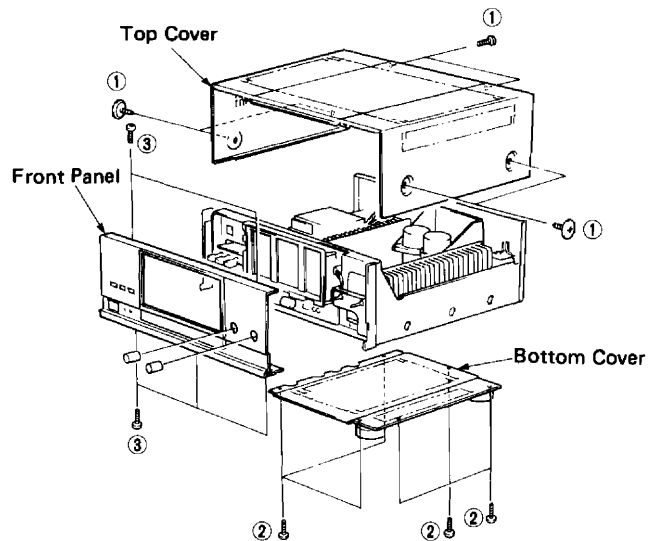


Fig. 1

ADJUSTMENTS

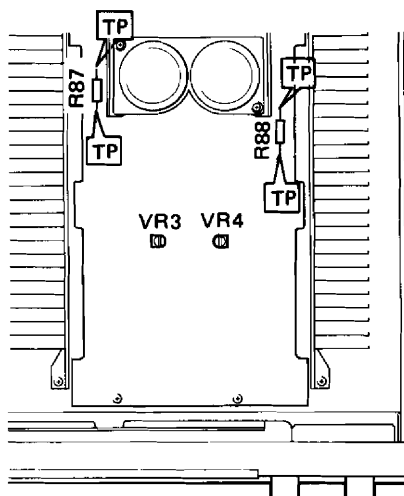
● IDLING CURRENT ADJUSTMENT

Wait 2 minutes after power ON to stabilize amplifier operation without signal.

Adjust VR3 (LcH) and VR4 (RcH) so that the voltage across the terminals of R87 (either R89, R91, R93) and R88 (either R90, R92, R94) come to $10\text{mV} \pm 1\text{mV DC}$.

	Test Points	Adjustment Points	Rating
LcH	Across the terminals of R87	VR 3	$10\text{mV} \pm 1\text{mV DC}$
RcH	Across the terminals of R88	VR 4	

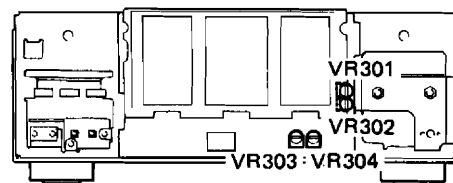
● TEST POINTS



TOP VIEW

● METER LEVEL ADJUSTMENT

- 1) Amplifier load : No load or 8Ω .
- 2) Apply a 1kHz sine wave signal from LINE IN so that Speaker output voltage is 0.69V AC .
- 3) Adjust VR303, 304 so that -33dB of the meter light up.
- 4) Reduce the signal level 0.5dB (0.65V AC). Confirm that -33dB segment fades out.
- 5) Apply a 1kHz sine wave signal from LINE IN so that Speaker output voltage is 31.6V AC .
- 6) Adjust VR301, 302 so that 0dB of the meter light up.
- 7) Reduce the signal level 0.5dB (29.8V AC). Confirm that 0dB segment fades out.
- 8) Confirm that -33dB segment fades out at no signal condition.



FRONT VIEW

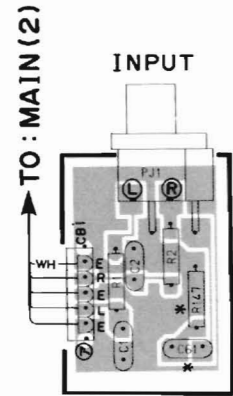
PRINTED CIRCUIT BOARD (Pattern side) Note) 文字面: Component side

Note) * marked

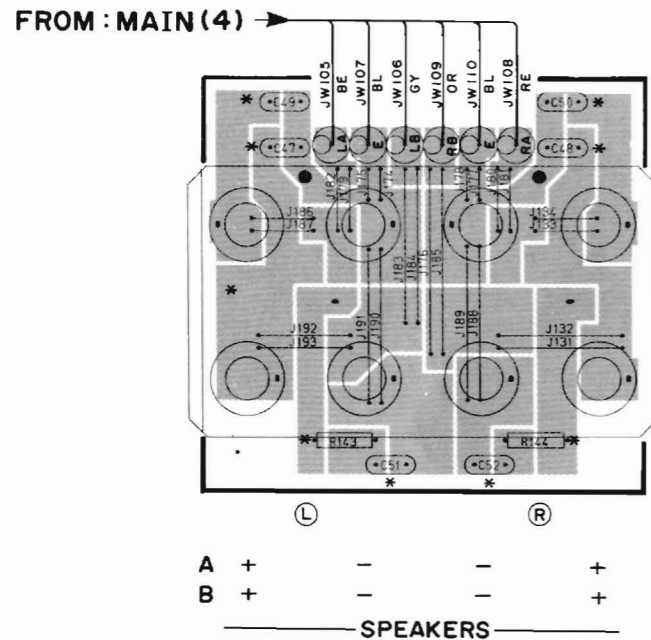
	U, C, R, A	B, G
C47 ~ 50	OPEN	4700P/100
C51, 52, 61	OPEN	0.01
R143, 144, 146, 147	OPEN	10
C57	OPEN	0.1/250
C62	OPEN	10P/500

Main Circuit Board (3)

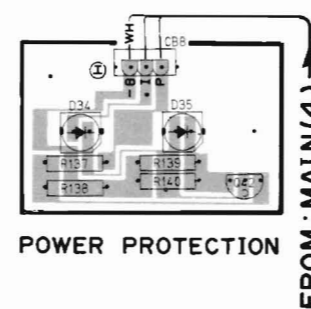
Main Circuit Board (1)



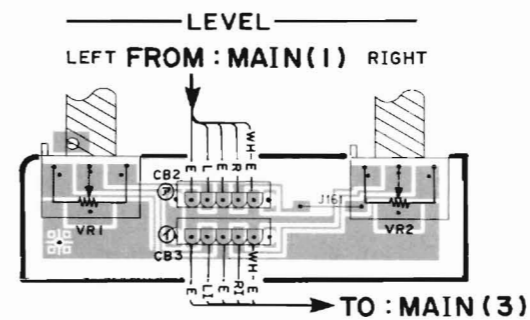
Main Circuit Board (5)



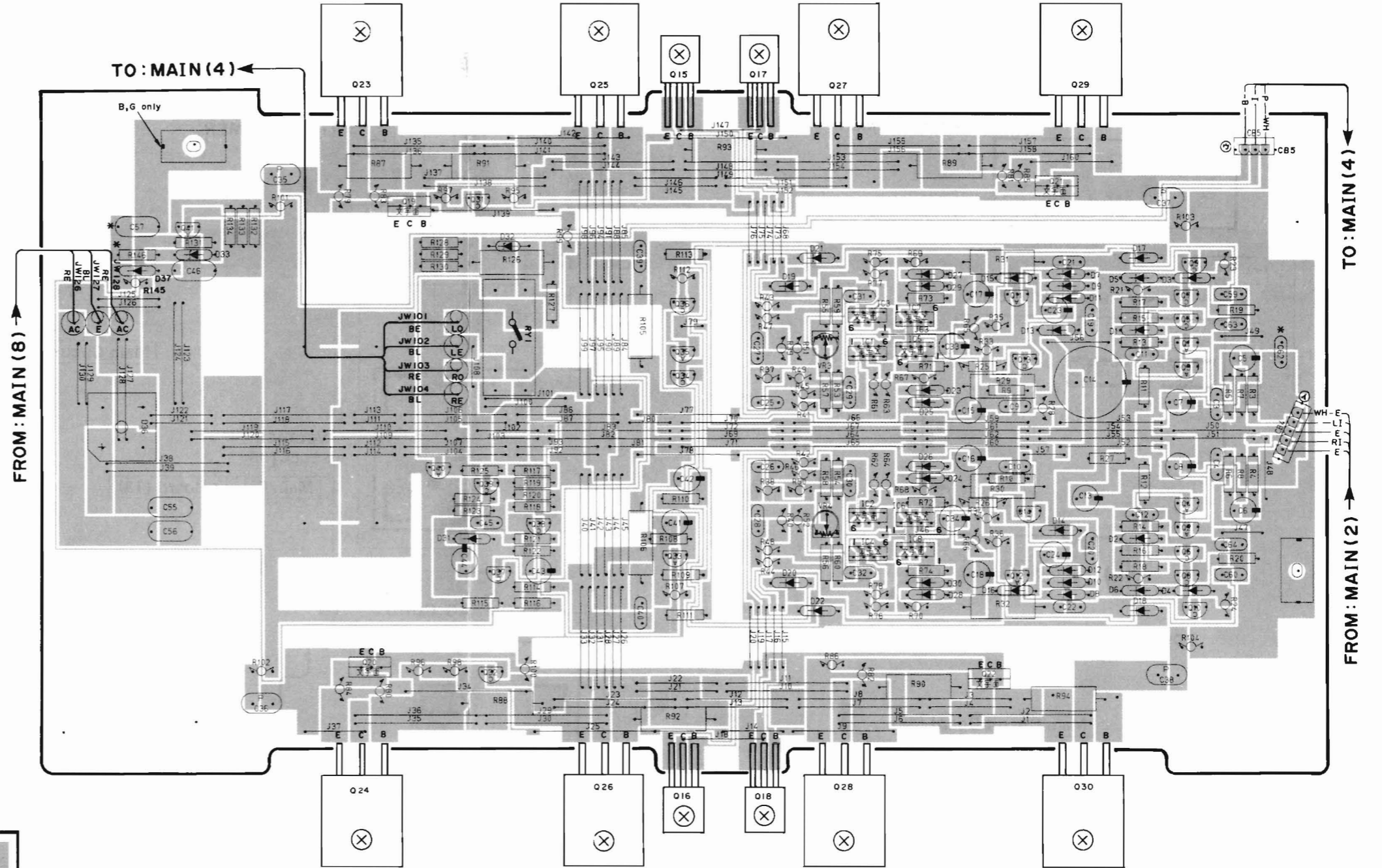
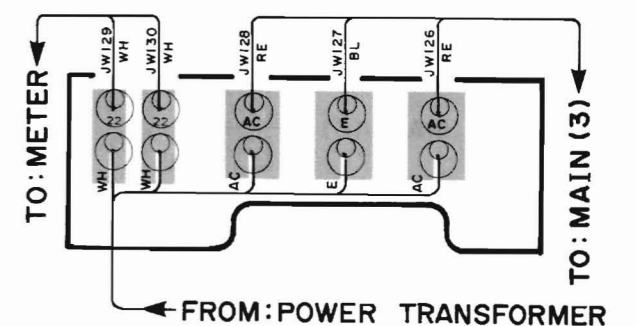
Main Circuit Board (6)



Main Circuit Board (2)



Main Circuit Board (8)



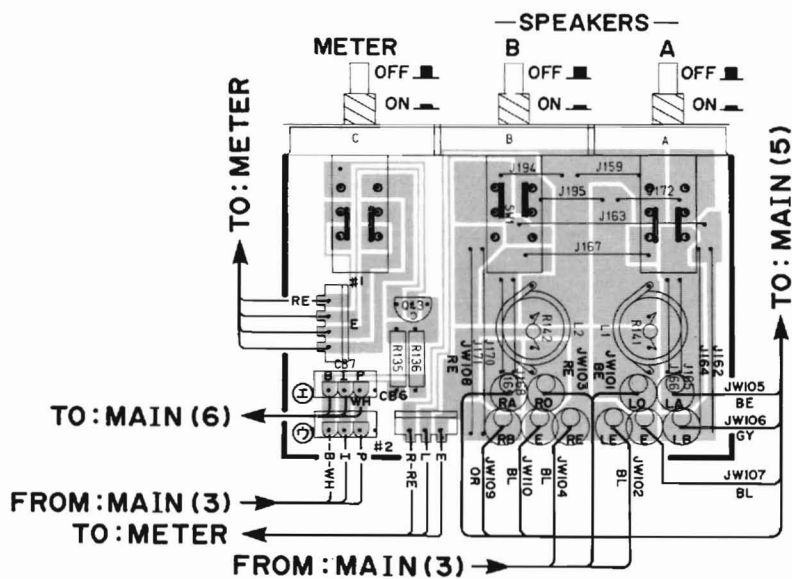
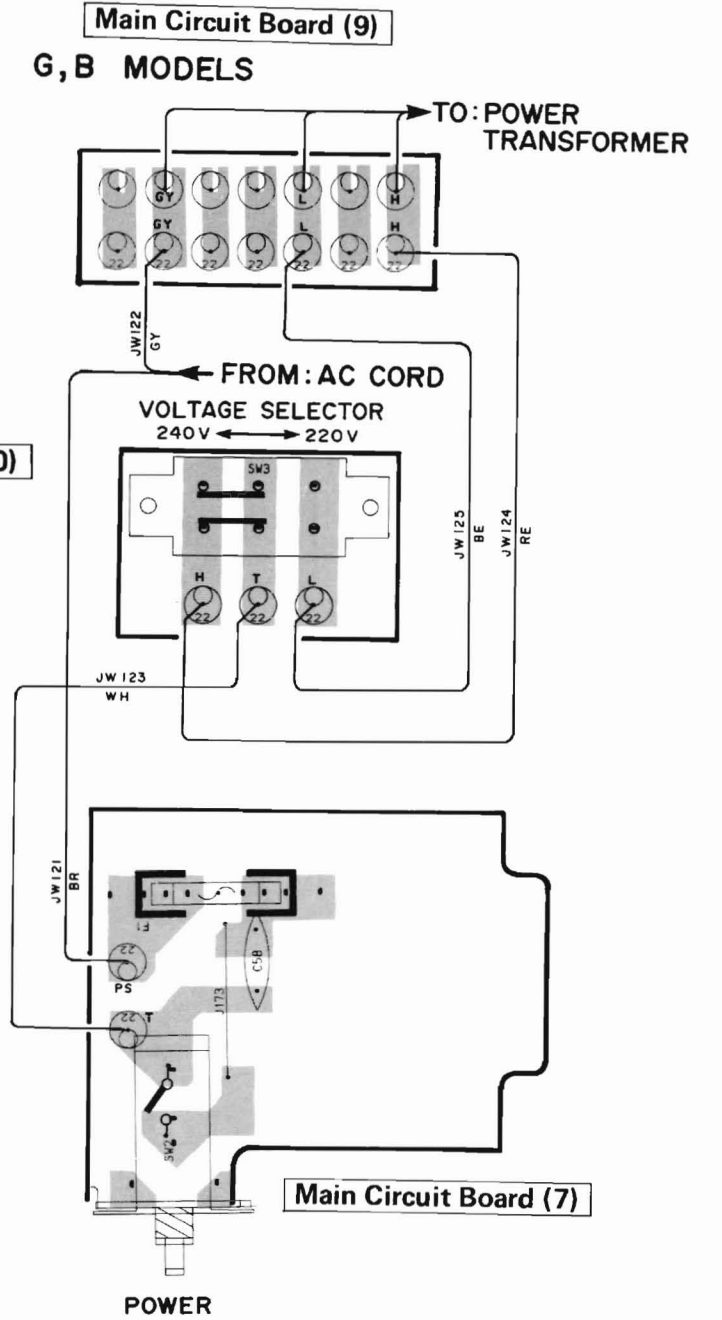
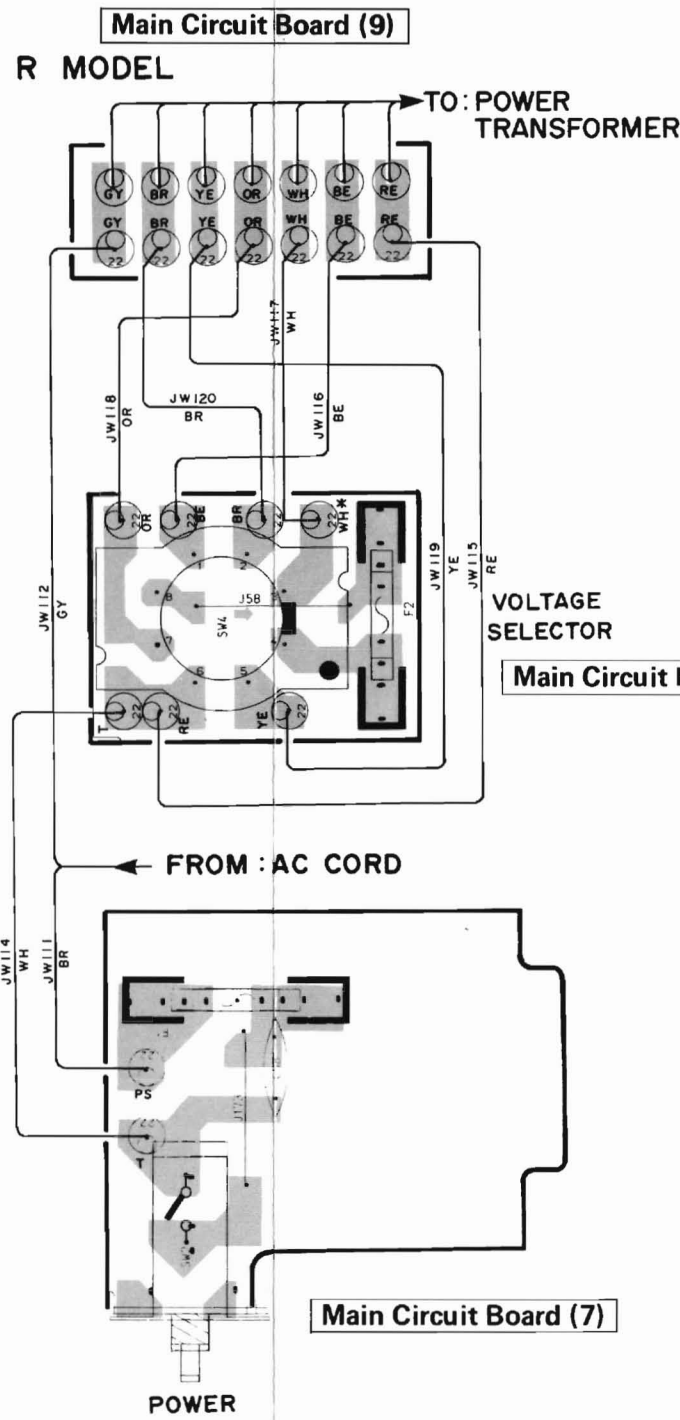
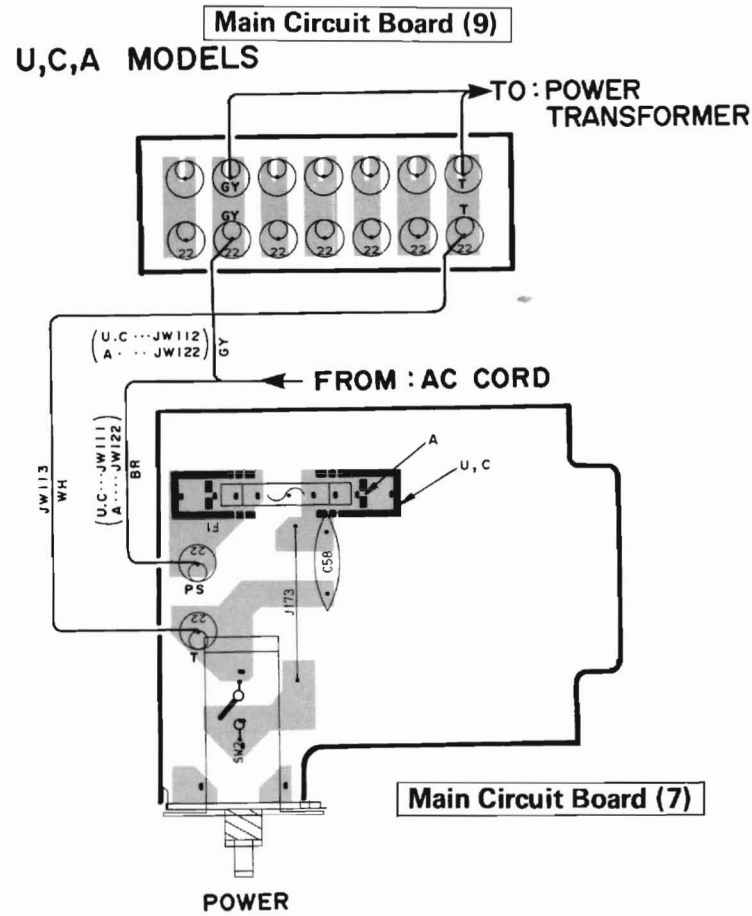
1
2
3
4
5
6

PRINTED CIRCUIT BOARD(Pattern side)

A,U,C MODEL

R MODEL

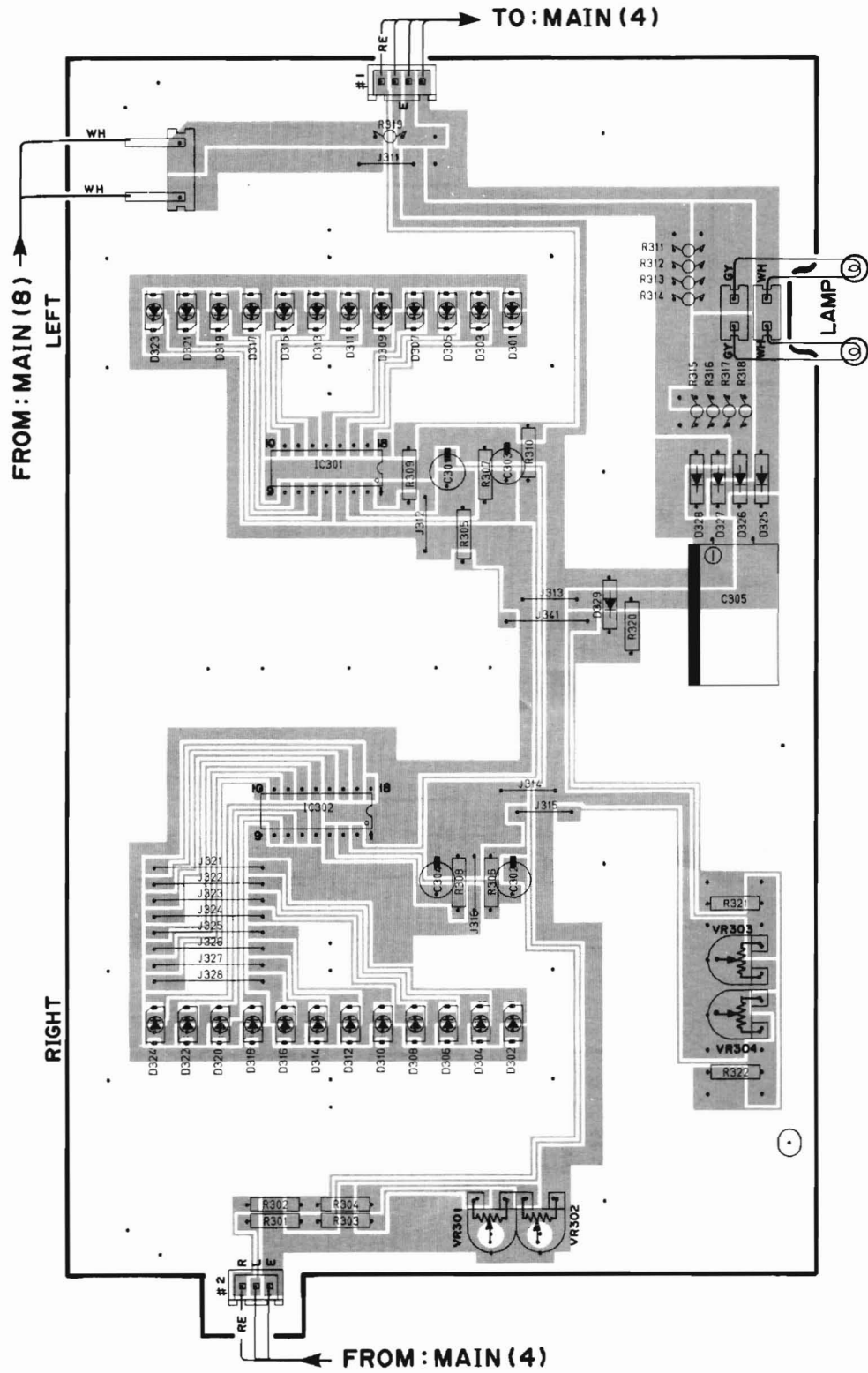
G,B MODEL



1

PRINTED CIRCUIT BOARD (Pattern side)

Meter Circuit Board



2

3

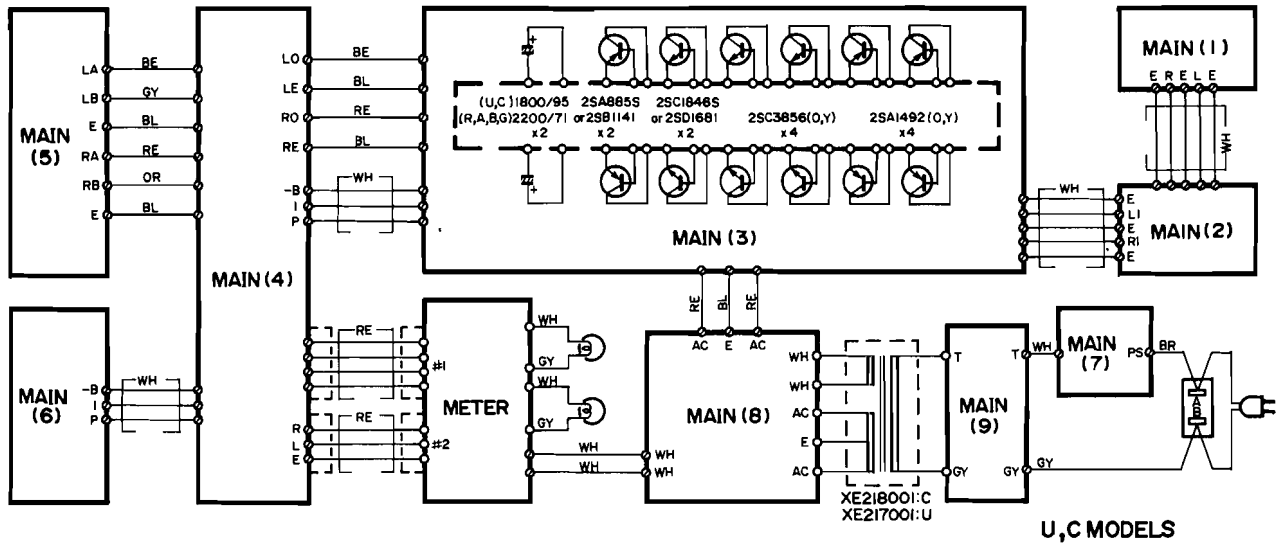
4

5

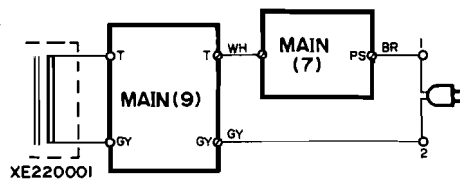
6

7

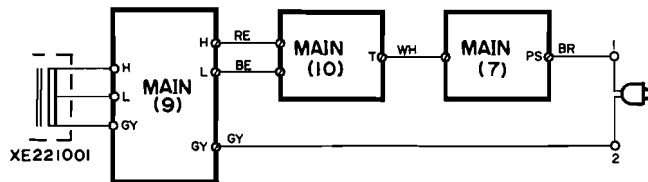
WIRING



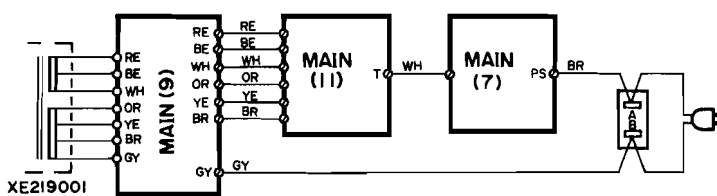
A MODEL



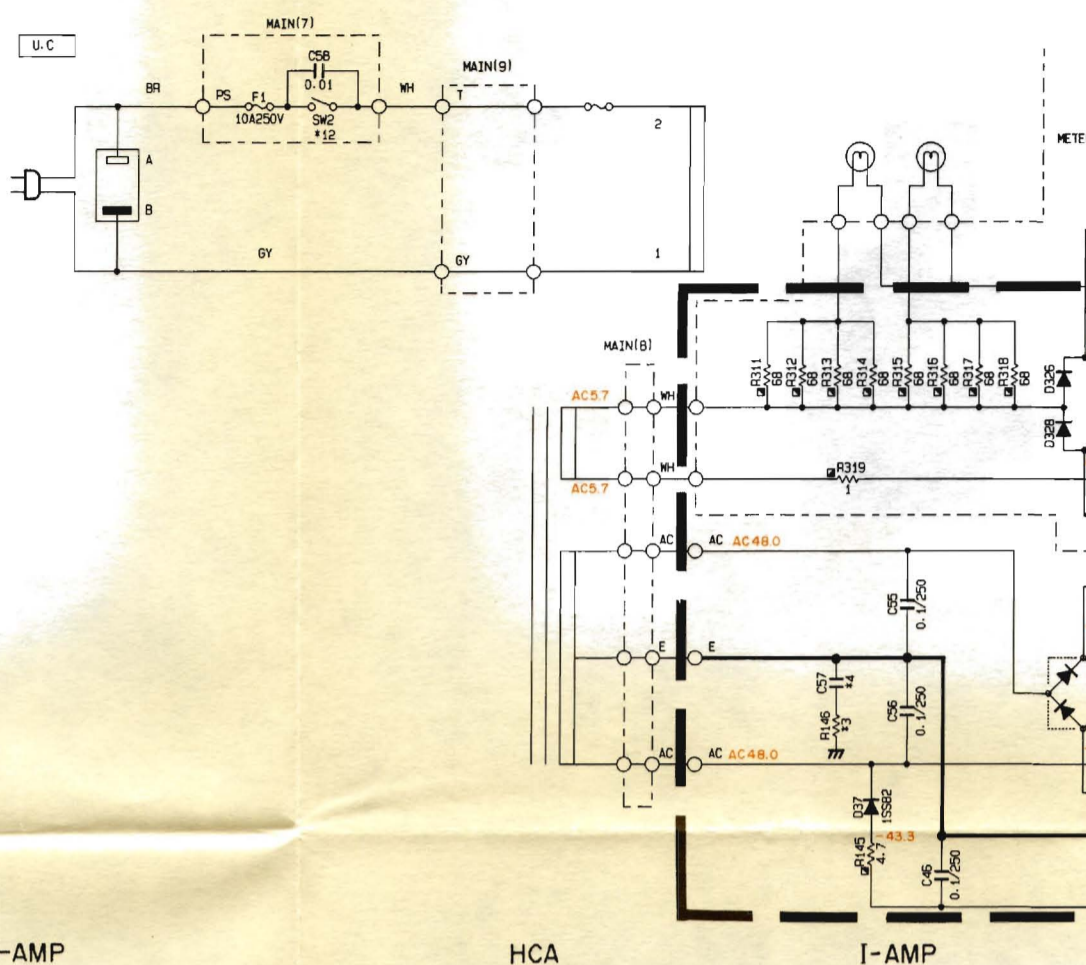
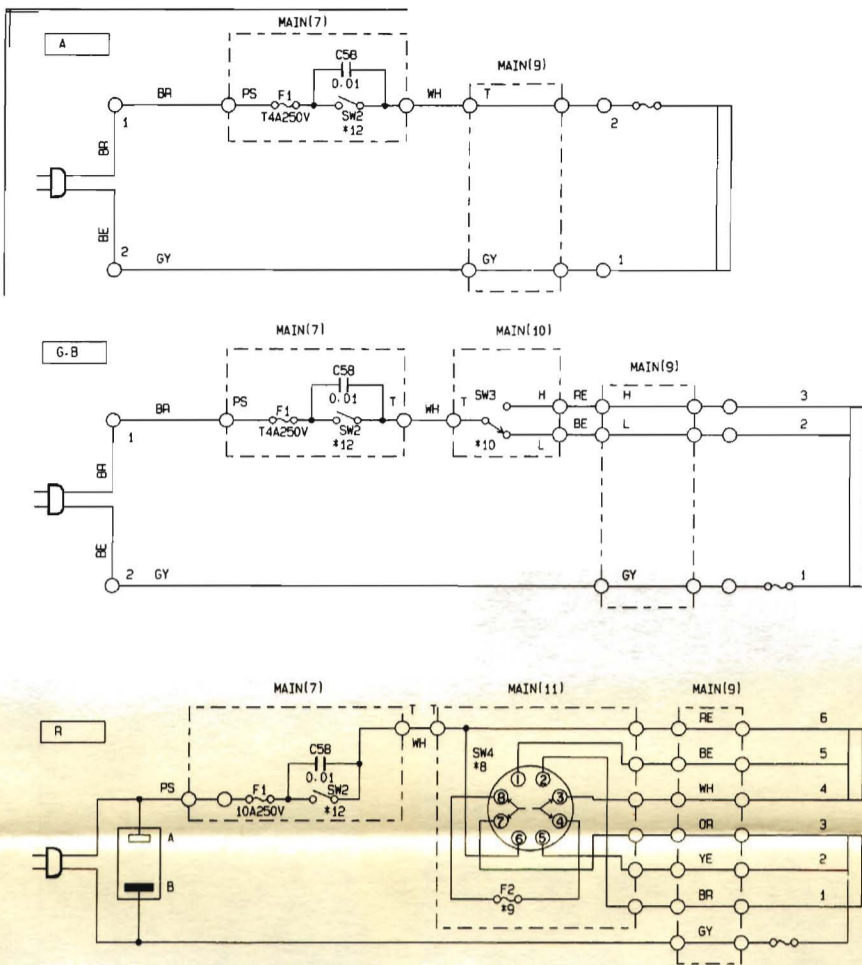
G, B MODEL



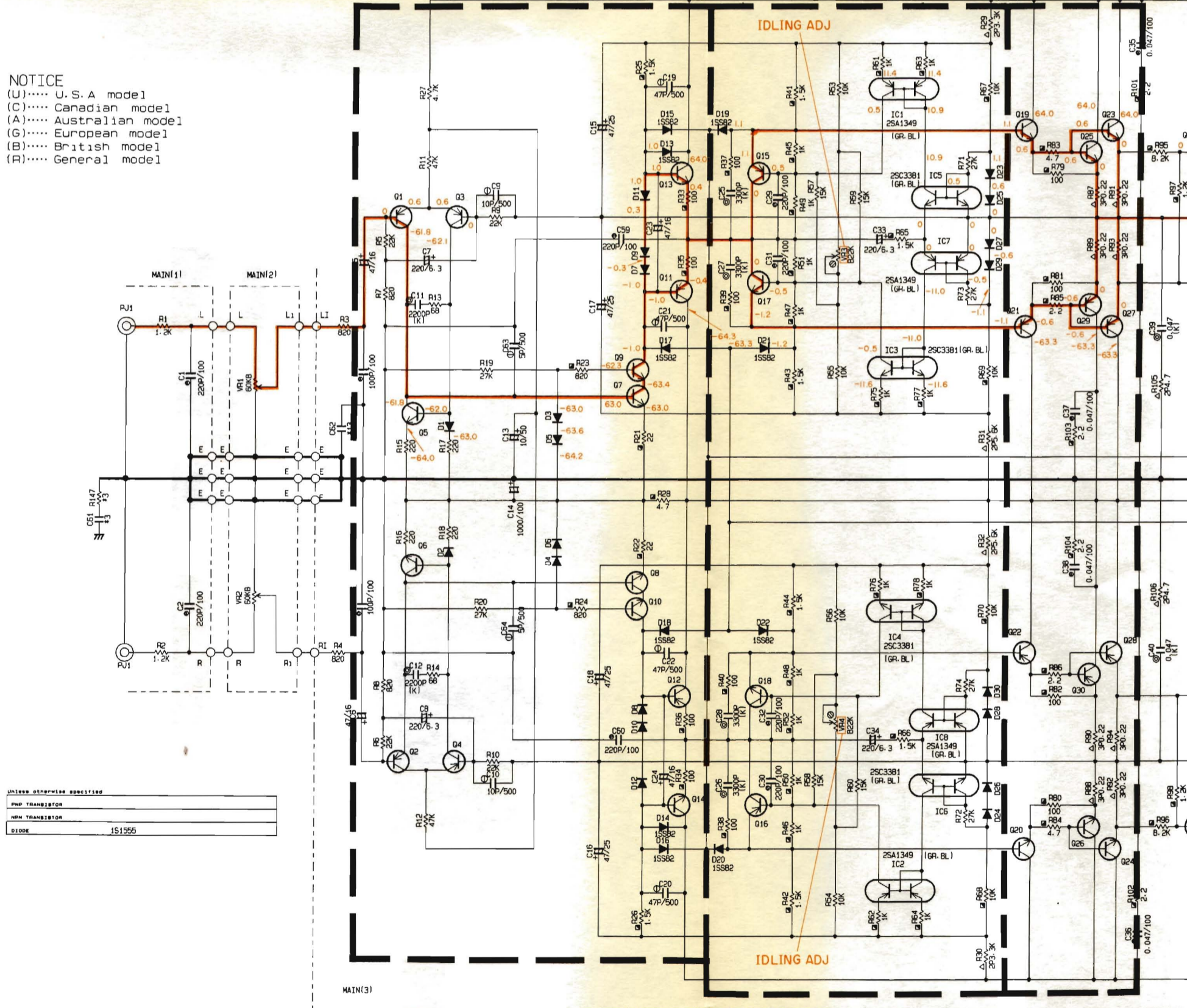
R MODEL



SCHEMATIC DIAGRAM



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

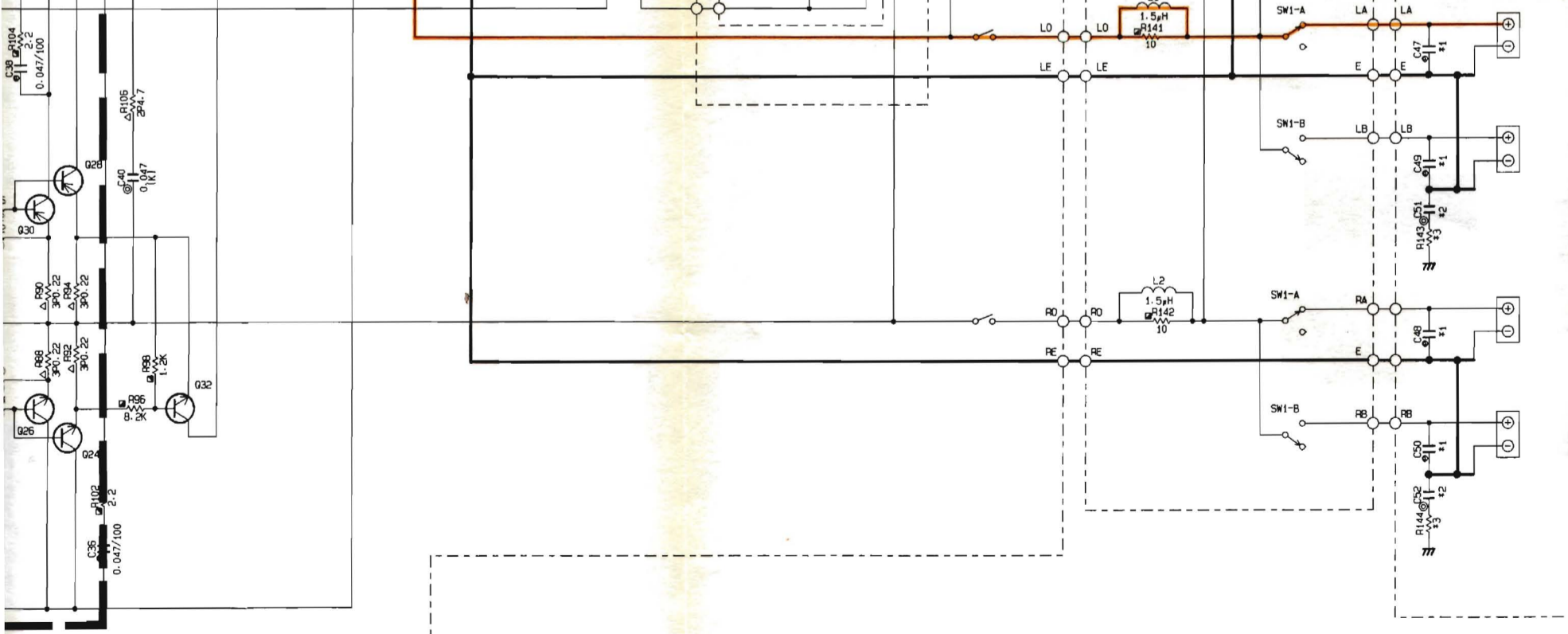
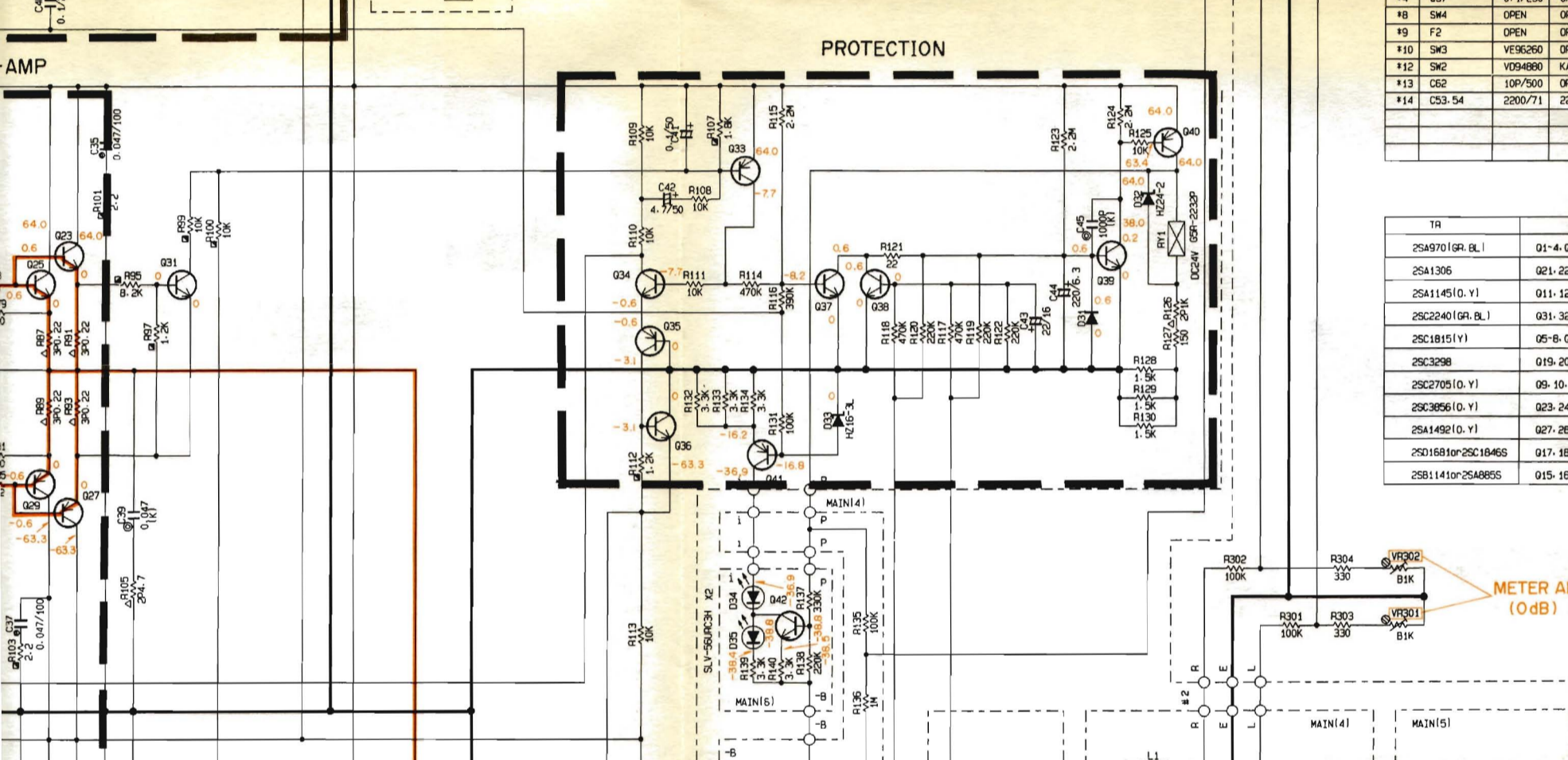
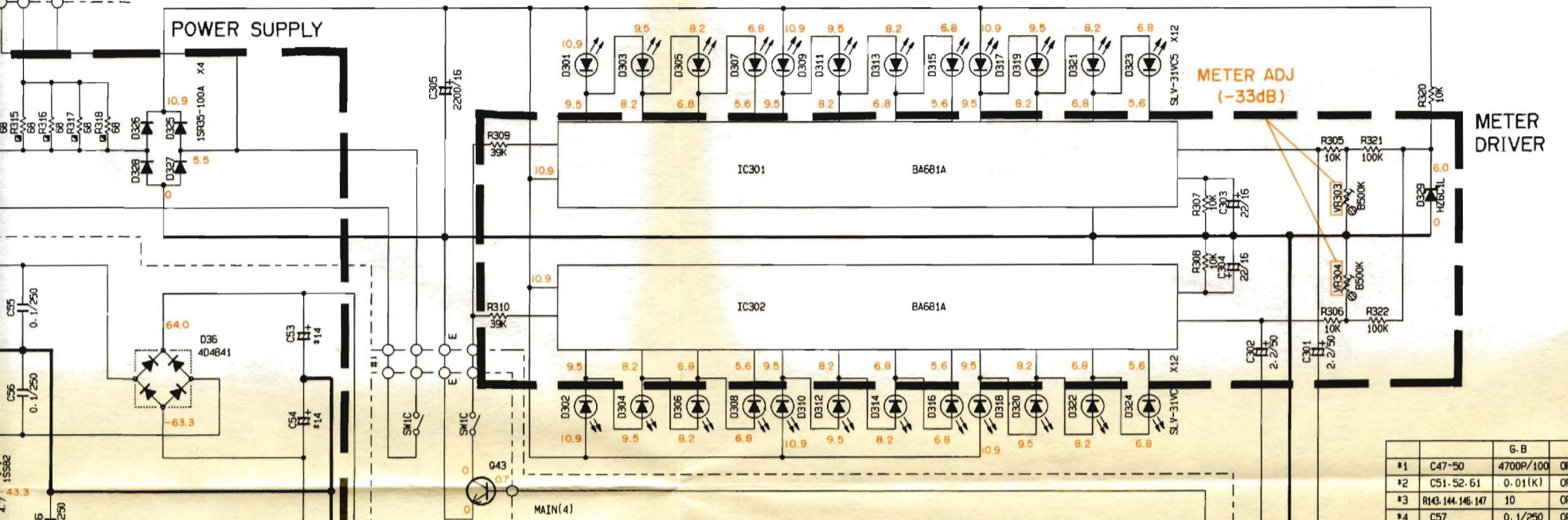
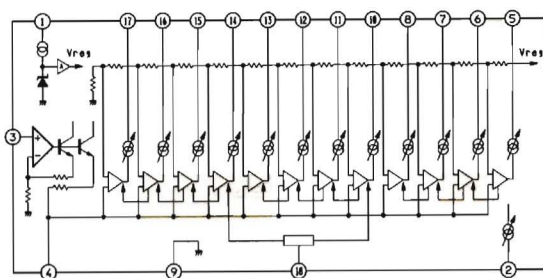


UNLESS OTHERWISE SPECIFIED
 PNP TRANSISTOR
 NPN TRANSISTOR
 DIODE 1S1555

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

<p>2SA1492 (O, Y) 2SC3856 (O, Y)</p>	<p>2SA1349 (GR, BL) 2SC3381 (GR, BL)</p>	<p>2SA970 (GR, BL) 2SC2240 (GR, BL) 2SC1815 (Y)</p>	<p>2SA1306</p>	<p>2SA1145 (O, Y) 2SC2705 (O, Y)</p>	<p>2SA885 (S) 2SC1846 (S)</p>	<p>1SR-35-100A HZ6C1L 1S1555 1S582 HZ24-2 HZ16-3L</p>	<p>4D4B41</p>	<p>SLV-56URC3H SLV-31VC5</p>	<p>BA681A</p>
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IC301, 302: BA681A
Meter Drive



		G.B	A	R	U.C
#1	C47-50	4700P/100	OPEN	OPEN	OPEN
#2	C51-52, 61	0.01(K)	OPEN	OPEN	OPEN
#3	R143, 144, 146, 147	10	OPEN	OPEN	OPEN
#4	C57	0.1/250	OPEN	OPEN	OPEN
#8	SW4	OPEN	OPEN	VA93290	OPEN
#9	F2	OPEN	OPEN	T5A250V	OPEN
#10	SW3	VE96260	OPEN	OPEN	OPEN
#12	SW2	V094880	KAB0430	KAB0430	KAB0430
#13	C62	10P/500	OPEN	OPEN	OPEN
#14	C53-54	2200/71	2200/71	2200/71	1800/75

TR	No
25A970(GR. BL)	01-4, 033, 035, 041
25A1306	021, 22
25A1451(O. Y)	011, 12, 40
25C2240(GR. BL)	031, 32, 34, 36, 39, 42, 43
25C18151(Y)	05-8, 037, 38
25C3298	019, 20
25C2705(O. Y)	09, 10, 13, 14
25C3856(O. Y)	023, 24, 25, 26
25A1492(O. Y)	027, 28, 29, 30
25D1681or25C1846S	017, 18
25B1141or25A885S	015, 16

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

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

* All voltages are measured with a 10MS/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.

PARTS LIST

MX-600/U/MX-50

■WARNING

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

● Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS list. For the parts No. of the carbon resistor, refer to p. 19.

■ELECTRICAL PARTS

Ref. No.	Part No.	Description			部 品 名	Remarks	Common Model	Markets	ラング
※	NA 09 78 60	Main Circuit Board			メ イ ン シ ー ト			U,C	
※	NA 09 78 70	"			"			R	
※	NA 09 78 80	"			"			A	
※	NA 09 78 90	"			"			B,G	
	Fi 32 41 00	Ceramic Cap.	0.01 μ F	250V	セ ラ コ ン	C58			
	FA 15 31 00	Mylar Cap.	1000pF	50V	マ イ ラ ー コ ン	C45			
	FA 15 32 20	"	2200pF	50V	"	C11,12			
	FA 15 33 30	"	3300pF	50V	"	C25~28			
	FA 15 41 00	"	0.01 μ F	50V	"	C51,52,61		B,G	
	FA 15 44 70	"	0.047 μ F	50V	"	C39,40			
	FU 35 05 00	Mica Cap.	5pF	500V	マ イ カ コ ン	C63,64			
	FU 35 11 00	"	10pF	500V	"	C9,10			
	FU 35 11 00	"	10pF	500V	"	C62		B,G	
	FU 35 14 70	"	47pF	500V	"	C19~22			
	FZ 00 46 60	Metallized Cap.	0.1 μ F	250V	M M コ ン	C46,55,56			
	FZ 00 46 60	"	0.1 μ F	250V	"	C57			
	UT 45 44 70	Polypropylene Film Cap.	0.047 μ F	100V	ポ リ プ ロ コ ン	C35~38			
	UT 45 21 00	"	100pF	100V	"	C3,4			
	UT 45 22 20	"	220pF	100V	"	C1,2,29~32,59,60			
	UT 45 34 70	"	4700pF	100V	"	C47~50			
	VE 01 66 00	Electrolytic Cap.	220 μ F	6.3V	ケ ミ コ ン D U O R E X	C7,8			
	VE 01 78 00	"	47 μ F	16V	"	C5,6			
	VE 01 86 00	"	47 μ F	25V	"	C15~18			
	VE 02 02 00	"	10 μ F	50V	"	C13			
※	VE 94 15 00	"	1000 μ F	100V	オ ー デ ィ オ ケ ミ コ ン	C14			
	UJ 11 82 20	"	220 μ F	6.3V	ケ ミ コ ン	C33,34,44			
	UJ 13 72 20	"	22 μ F	16V	"	C43			
	UJ 13 74 70	"	47 μ F	16V	"	C23,24			
	UJ 16 64 70	"	4.7 μ F	50V	"	C42			
	UJ 16 51 00	"	0.1 μ F	50V	"	C41			
	VC 79 37 00	Coil	1.5 μ H		ク ウ シ ン コ イ ル	L1,2			
	HL 32 34 70	Metal Oxide Film Resistor	4.7 Ω	2W	酸 金 抵 抗	R105,106			
	HL 32 61 00	"	1k Ω	2W	"	R126			
	HL 32 63 30	"	3.3k Ω	2W	"	R29,30			
※	HL 32 65 60	"	5.6k Ω	2W	"	R31,32			
	HL 93 22 20	"	0.22 Ω	3W	"	R87~94			
	HV 45 32 20	Flame Proof Carbon Resistor	2.2 Ω	1/4W	不 燃 化 カ ー ボ ン 抵 抗	R85,86,101~104			
	HV 45 34 70	"	4.7 Ω	1/4W	"	R28,83,84,145			
	HV 45 41 00	"	10 Ω	1/4W	"	R141,142			
	HV 45 42 20	"	22 Ω	1/4W	"	R21,22			
	HV 45 51 00	"	100 Ω	1/4W	"	R33~40,79~82			
	HV 45 58 20	"	820 Ω	1/4W	"	R23,24			
	HV 45 61 00	"	1k Ω	1/4W	"	R45~52,61~64,75~78			
	HV 45 61 20	"	1.2k Ω	1/4W	"	R97,98,112			
	HV 45 61 50	"	1.5k Ω	1/4W	"	R25,26,41~44,65,66			
	HV 45 61 80	"	1.8k Ω	1/4W	"	R107			
	HV 45 68 20	"	8.2k Ω	1/4W	"	R95,96			
	HV 45 71 00	"	10k Ω	1/4W	"	R67~70,99,100			
	VB 86 16 00	Pre-Set Potentiometer	B22k Ω		半 固 定 抵 抗	VR3,4			
	VE 64 25 00	Rotary Potentiometer	B60k Ω		ロ ー タ リ ー V R	VR1,2			

※ New Parts (新規部品) NR

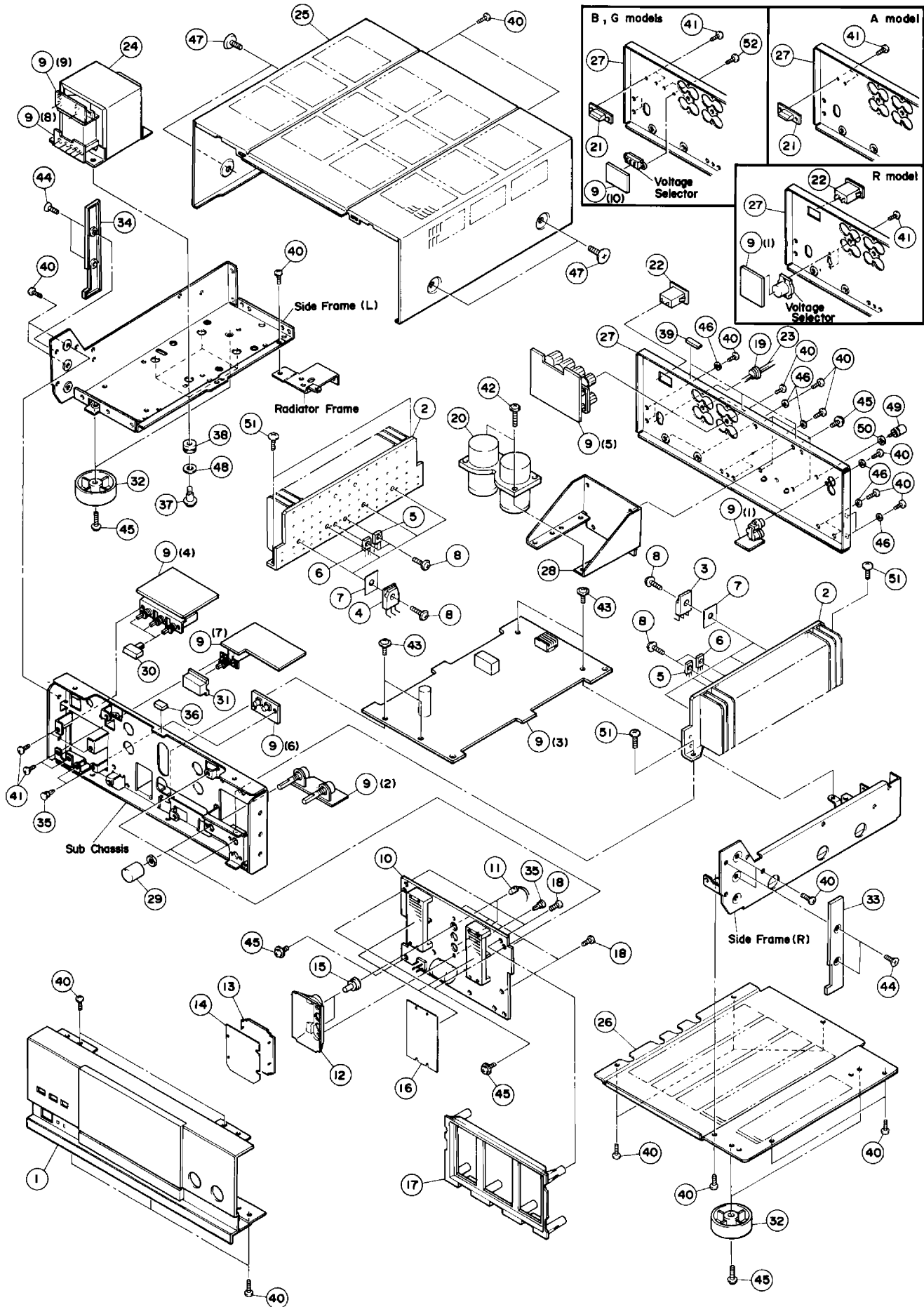
Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	iA 09 70 00	Transistor	2SA970(GR, BL)	ト ラ ン ジ ス タ ー	Q1~4, 33, 35, 41		
	iA 13 06 00	//	2SA1306	//	Q21, 22		
*	iA 11 45 00	//	2SA1145(O, Y)	//	Q11, 12, 40		
	iC 22 40 00	//	2SC2240(GR, BL)	//	Q31, 32, 34, 36, 39, 42, 43		
	iC 18 15 20	//	2SC1815(Y)	//	Q5~8, 37, 38		
	iC 32 98 00	//	2SC3298	//	Q19, 20		
*	iC 27 05 00	//	2SC2705(O, Y)	//	Q9, 10, 13, 14		
	iA 13 49 00	Dual Transistor	2SA1349(GR, BL)	デュアルトランジスター	IC1, 2, 7, 8		
	iC 33 81 00	//	2SC3381(GR, BL)	//	IC3~6		
	iF 00 00 40	Diode	1S1555	ダ イ オ ー ド	D1~12, 23~31		
	iF 00 14 00	//	ISS82	//	D13~22, 37		
	iF 00 19 40	Zener Diode	HZ24-2	ツェナーダイオード	D32		
	iF 00 35 40	//	HZ16-3L	//	D33		
	iF 00 44 40	LED (Red)	SLV-56URC3H	L E D	D34, 35		
	iH 00 11 60	Diode Bridge	4D4B41	ダイオードブリッジ	D36		
	KA 80 48 60	Power Switch	TV-5	電 源 ス イ ッ チ	SW2	R, A, B, G	△
	KA 80 43 00	//	TV-8	//	//	U, C	△
	VA 96 18 00	Voltage Selector		電 圧 切 換 器	SW4	R	△
*	VE 96 26 00	Slide Switch		スライドスイッチ	SW3	B, G	
*	VE 99 01 00	Push Switch	2-2NS	プッシュスイッチ	SW1		
	VD 37 09 00	Fuse	10A 250V	ヒ ュ ー ズ	F1	U, C	△
	KB 00 14 90	//	10A 250V	//	//	R	△
	KB 00 07 90	//	T4A 250A	//	//	A, B, G	△
	KB 00 04 00	//	T5A 250V	//	F2	R	△
	VC 27 86 00	Relay	G5R-2232P, DC24V	リ レ ー	RY1		
*	VE 64 24 00	Pin Jack	2P	ピ ン ジャ ッ ク	PJ1		
	VA 72 53 00	Wire Holder	3P	バラレルホルダー	CB5~8		
	VA 72 55 00	//	5P	//	CB1~4		
	LB 20 19 70	Fuse Holder Pin		ヒューズホルダーピン		U, C, R	
	LB 20 10 60	//		//		A, B, G	
	VC 31 36 00	Speaker Terminal	8P	スピーカーターミナル		R, A	
	VC 72 08 00	//	8P	//		B, G	
	VF 82 41 00	//	8P	//		U, C	
	VA 82 15 00	Radiator		ラ ジ エ タ ー			
	BB 06 95 10	Land Metal Fitting		ラ ン ド 金 具			
	EK 33 00 20	Binding Head Tapping Screw	3×14(φ8)FCRM3-B1	B Wヘッドタッピングネジ			

*New Parts (新規部品) NR

Ref. No.	Part No.			Description	部 品 名		Remarks	Common Model	Markets	ランク
※	NA	09	83	30	Meter Circuit Board		メーターシート			
	UJ	13	72	20	Electrolytic Cap.	22 μ F 16V	ケミコン	C303,304		
	UJ	16	62	20	//	2.2 μ F 50V	//	C301,302		
	UJ	13	92	20	//	2200 μ F 16V	//	C305		
	HJ	35	53	30	Carbon Resistor	330 Ω 1/4W	カーボン抵抗	R303,304		
	HJ	35	71	00	//	10k Ω 1/4W	//	R305~308,320		
	HJ	35	81	00	//	100k Ω 1/4W	//	R301,302,321,322		
	HV	45	31	00	Flame Proof Carbon Resistor	1 Ω 1/4W	不燃化カーボン抵抗	R319		
	HV	45	46	80	//	68 Ω 1/4W	//	R311~318		
	HT	37	03	40	Pre-Set Potentiometer	B1k Ω	半固定抵抗	VR301,302		
	HT	37	03	30	//	B500 Ω	//	VR303,304		
※	XA	51	40	01	IC	BA681A	I C	IC301,302		
	iH	00	14	30	Diode	1SR35-100A	ダイオード	D325~328		
	iF	00	35	30	Zener Diode	HZ6C1L	ツェナーダイオード	D329		
	iF	00	77	10	LED	SLV-31VC5	L E D	D301~324		
	LA	00	21	10	Lapping Terminal	P=5 2P i-Type	i型ラッピング端子板			
	LA	00	26	50	//	P=10 2P L-Type	L型ラッピング端子板			
	LB	91	80	30	Base Pin	3P i-Type	X H ベースピン			
	LB	91	80	40	//	4P i-Type	//			
	LB	65	11	20	Reflector		リフレクター			

※New Parts (新規部品) NR

EXPLODED VIEW



MECHANISM PARTS

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
* 1	VE 95 65 00	Panel Unit	パネルユニット	MX-600U		U,C	
* //	VE 95 66 00	//	//	MX-600		R,A	
* //	VE 95 67 00	//	//	MX-50		B,G	
2	BA 09 43 00	Radiator	ラジエター				
* 3	iX 60 97 50	Transistor	2SA1492(O,Y)	トランジスター		Q27~30	
* 4	iX 60 97 60	//	2SC3856(O,Y)	//		Q23~26	
* 5	VE 91 28 00	//	2SB1141(S,T)	//		Q15,16	
* 6	VE 91 29 00	//	2SD1681(S,T)	//		Q17,18	
* 7	VB 43 50 00	Sheet	デンカ放熱シート				
8	EZ 00 13 50	Cup Screw	3×14 FCRM3-BI	カップBタイトネジ			
* 9	NA 09 78 60	Main Circuit Board		メインシート	MX-600U		U,C
* //	NA 09 78 70	//		//	MX-600		R
* //	NA 09 78 80	//		//	MX-600		A
* //	NA 09 78 90	//		//	MX-50		B,G
* 10	NA 09 83 30	Meter Circuit Board		メーターシート			
* 11	VF 30 95 00	Pilot Lamp	8V 150mA I=200	パイロットランプ			
12	CB 63 05 30	Lamp Reflector		ランプリフレクター		M-80	
13	CB 63 05 50	Diffusing Plate		デヒュージングプレート		//	
* 14	VE 77 62 00	Display Sheet		表示シート			
15	CB 63 07 50	Lamp Cap		ランプキャップ		M-80	
* 16	VE 77 57 00	Bar Meter Sheet		バーメーターシート			
17	CB 63 02 90	Meter Cover		メーターカバー		M-80	
18	Ei 33 01 06	Binding Head Tapping Screw	3×10 FCRM3-BI	バインドタッピングネジ	PACK		
19	CB 62 01 90	Cord Stopper	CM-22B	コードストッパー			R,A,B,G
//	CB 62 02 00	//	CM-22C	//			U,C
* 20	VF 47 29 00	Electrolytic Cap.	18000μF 75V	ケミコンセット	C53,54 Pair		U,C
* //	VE 90 60 00	//	22000μF 71V	//	C53,54 Pair		R,A,B,G
21	VD 61 41 00	Terminal Plate	2P	中継端子台			A,B,G
22	LB 20 30 60	AC Outlet	S-i649B	A C アウトレット			U,C,R
23	MG 00 22 20	Power Cord	1.98m 10A 125V	電源コード			U,C
//	MG 00 16 30	//	2m 6A 250V	//			R
//	MG 00 09 20	//	2.5m 7.5A 250V	//			A
//	MG 00 23 20	//	2m 2.5A 250V	//			B,G
* 24	XE 21 70 01	Power Transformer		電源トランス			U
* //	XE 21 80 01	//		//			C
* //	XE 21 90 01	//		//			R
* //	XE 22 00 01	//		//			A
* //	XE 22 10 01	//		//			B,G
25	AA 62 19 80	Top Cover		トップカバー		M-80	
26	AA 62 20 30	Bottom Cover		ボトムカバー		//	
* 27	VE 77 32 00	Rear Panel		リヤパネル	MX-600		R
* //	VE 77 33 00	//		//	MX-600U		U,C
* //	VE 77 34 00	//		//	MX-600		A
* //	VE 77 35 00	//		//	MX-50		B,G
28	AA 62 33 50	Capacitor Angle		ケミコン金具		M-60	
29	BA 08 58 70	Knob		ツマミ	LEVEL	A-05	
30	VE 77 40 00	Button		ボタン	SPEAKERS	MX-1000	
31	VE 18 99 00	//		//	POWER	AX-900	
32	CB 66 09 50	Leg		レッグ		//	
33	VE 77 36 00	Side Cover (R)		サイドカバー (R)		MX-1000	
34	VE 77 37 00	// (L)		// (L)		//	
35	CB 06 88 80	Plastic Rivet		プラスチックリベット			
36	CB 60 13 40	Spacer		スペーサー			

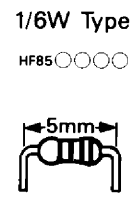
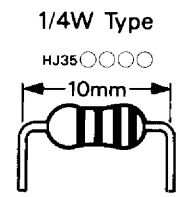
*New Parts (新規部品) NR

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
37	AA 60 38 50	Special Screw		ダ ン ツ キ ネ ジ			
38	CB 09 99 10	Rubber Cushion		防 振 ゴ ム			
39	VD 60 83 00	Damper Top		ダ ン パ ー ト ッ プ	CDX-1100		
40	Ei 33 00 86	Binding Head Tapping Screw	3×8 FCRM3-BI	バ イ ン ド タ ッ ピ ン グ ネ ジ	PACK		
41	ED 33 00 66	Binding Tapping Screw	3×6 FCRM3-BI	バ イ ン ド 小 ネ ジ	PACK		
42	EK 33 00 50	BW Head Tapping Screw	3×18(φ10)FCM3-BI	B W ヘ ッ ド タ ッ ピ ン グ ネ ジ			
43	EX 60 02 40	//	3×8(φ10)FCMR3-BI	//			
44	EB 34 01 00	Flat Head Screw	4×10 FCRM3-BI	皿 小 ネ ジ			
45	EK 33 60 10	BW Head Tapping Screw	3×8(φ8)FCM3-BI	B W ヘ ッ ド タ ッ ピ ン グ ネ ジ			
46	EV 41 30 36	Toothed Lock Washer	φ3 FCRM3-BI	内 歯 付 座 金			
47	AX 60 01 50	Screw	4×8 FCRM3-BI	化 粧 ネ ジ			
48	EV 22 06 00	Toothed Lock Washer	φ6×φ13×1.0 FCRM3-BI	セ ム ス 平 座 金			
49	AA 62 73 10	Ground Terminal	3×13	G N D タ ー ミ ナ ル			
50	EV 90 13 60	Toothed Lock Washer	φ3.6×φ10×0.8FCRM3-BI	セ ム ス 平 座 金			
51	Ei 34 00 86	Binding Head Tapping Screw	4×8 FCRM3-BI	バ イ ン ド タ ッ ピ ン グ ネ ジ	PACK		
52	EJ 32 60 86	Pan Head Tapping Screw	2.6×8 FCRM3-BI	ナ ベ タ ッ ピ ン グ ネ ジ	PACK	B,G	
	CB 06 92 51	Binding Tie	BK-1	イ ン シ ュ ロ ッ ク タイ	PACK		

※New Parts (新規部品) NR

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	HF85 3100	12K Ω	HJ35 7120	HF85 7120
1.8 "	HJ353180	*	15 "	HJ35 7150	HF85 7150
2.2 "	HJ353220	HF853220	18 "	HJ35 7180	HF85 7180
3.3 "	HJ353330	HF853330	22 "	HJ35 7220	HF85 7220
4.7 "	HJ353470	HF853470	27 "	HJ35 7270	HF85 7270
5.6 "	HJ353560	HF853560	33 "	HJ35 7330	HF85 7330
10 "	HJ354100	HF854100	39 "	HJ35 7390	HF85 7390
15 "	HJ354150	HF854150	47 "	HJ35 7470	HF85 7470
22 "	HJ354220	HF854220	56 "	HJ35 7560	HF85 7560
27 "	HJ354270	HF854270	68 "	HJ35 7680	HF85 7680
33 "	HJ354330	HF854330	82 "	HJ35 7820	HF85 7820
39 "	HJ354390	HF854390	91 "	HJ35 7910	HF85 7910
47 "	HJ354470	HF854470	100 "	HJ35 8100	HF85 8100
56 "	HJ354560	HF854560	120 "	HJ35 8120	HF85 8120
68 "	HJ354680	HF854680	150 "	HJ35 8150	HF85 8150
82 "	HJ354820	HF854820	180 "	HJ35 8180	HF85 8180
100 "	HJ355100	HF855100	220 "	HJ35 8220	HF85 8220
110 "	HJ355110	HF855110	270 "	HJ35 8270	HF85 8270
120 "	HJ355120	HF855120	330 "	HJ35 8330	HF85 8330
150 "	HJ355150	HF855150	390 "	HJ35 8390	HF85 8390
160 "	HJ355160	*	470 "	HJ35 8470	HF85 8470
180 "	HJ355180	HF855180	560 "	HJ35 8560	HF85 8560
220 "	HJ355220	HF855220	680 "	HJ35 8680	HF85 8680
270 "	HJ355270	HF855270	820 "	HJ35 8820	HF85 8820
330 "	HJ355330	HF855330	1.0M Ω	HJ35 9100	HF85 9100
390 "	HJ355390	HF855390	1.2 "	HJ35 9120	*
470 "	HJ355470	HF855470	1.5 "	HJ35 9150	HF85 9150
510 "	*	HF855510	1.8 "	HJ35 9180	HF85 9180
560 "	HJ355560	HF855560	2.2 "	HJ35 9220	HF85 9220
680 "	HJ355680	HF855680	3.3 "	HJ35 9330	HF85 9330
820 "	HJ355820	HF855820	3.9 "	HJ35 9390	*
910 "	HJ355910	HF855910	4.7 "	HJ35 9470	HF85 9470
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	HF85 6300			
3.3 "	HJ356330	HF85 6330			
3.6 "	HJ356360	HF85 6360			
3.9 "	HJ356390	HF85 6390			
4.7 "	HJ356470	HF85 6470			
5.1 "	HJ356510	HF85 6510			
5.6 "	HJ356560	HF85 6560			
6.8 "	HJ356680	HF85 6680			
8.2 "	HJ356820	HF85 6820			
9.1 "	HJ356910	HF85 6910			
10 "	HJ35 7100	HF85 7100			



MX-600/U/MX-50

YAMAHA