

**YAMAHA Hi-Fi STEREO  
SERVICE MANUAL  
STEREO/  
PRE-MAIN AMPLIFIER  
MODEL CA-400**



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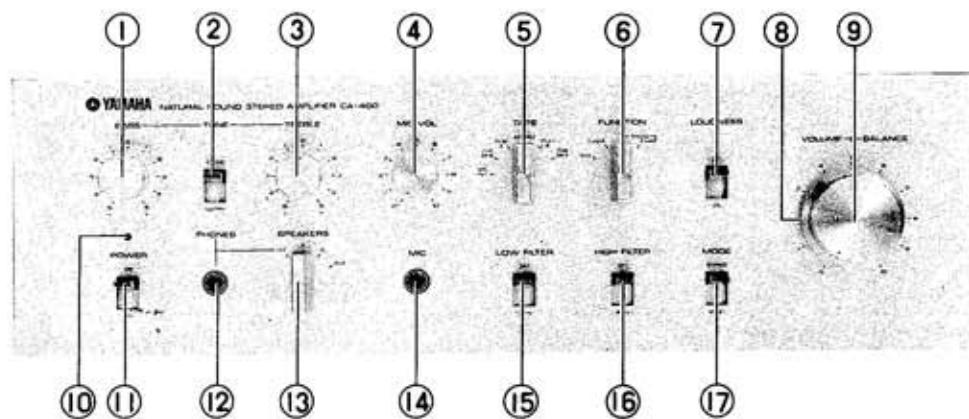
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## SPECIFICATIONS

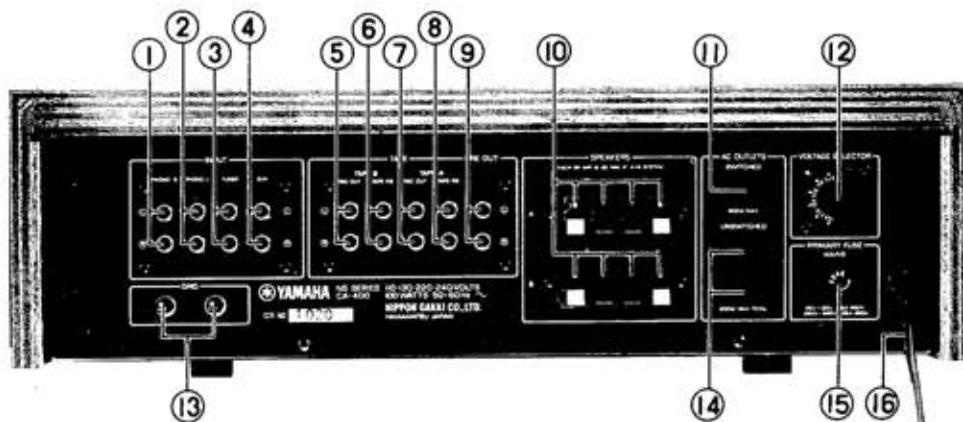
■ AUDIO SECTION		TONE CONTROLS	
POWER OUTPUT		BASS	+12dB, -12dB at 50Hz
Dynamic Power	(IHF)	TREBLE	+10dB, -10dB at 10,000Hz
	90 watts (4Ω)	FILTERS	-3dB at 50Hz (12dB/oct.)
	70 watts (8Ω)		-3dB at 8,000Hz (6dB/oct.)
Continuous RMS Power	(each channel driven)	LOW	
	35/35 watts (4Ω) at 1,000Hz	HIGH	
	27/27 watts (8Ω) at 1,000Hz	INTERMODULATION DISTORTION	(70Hz; 7,000Hz ~ 4:1 SMPTE method)
Continuous RMS Power	(both channels driven)	Overall	(AUX to Power Output)
	28+28 watts (4Ω) at 1,000Hz		Less than 0.1% (8Ω) at rated output
	22+22 watts (8Ω) at 1,000Hz	(IHF, distortion 0.5% const.)	
Continuous RMS Power	(both channels driven)	POWER BANDWIDTH	8 to 70,000Hz
	25+25 watts (4Ω) at 20 to 20,000Hz	FREQUENCY RESPONSE	(at 1 watt)
	20+20 watts (8Ω) at 20 to 20,000Hz	Overall	(AUX, TAPE PB to Power Output)
TOTAL HARMONIC DISTORTION			20 to 50,000Hz +0.5dB, -1dB
Preamplifier Only	(PHONO to PRE OUT)	Overall	(MIC to Power Output)
	Less than 0.1% (8Ω) at rated power	Deviation from RIAA	100 to 10,000Hz +0.5, -6dB
	(AUX to PRE OUT)		(30 to 15,000Hz)
	Less than 0.02% (8Ω) at rated power	LOAD IMPEDANCE	±0.5dB
Overall	(AUX to POWER OUTPUT)	DAMPING FACTOR	4 to 16Ω
	Less than 0.1% (8Ω) at rated power	CHANNEL SEPARATION	Over 50 at 1,000Hz (8Ω)
HUM and NOISE	(IHF, Closed Circuit A Network)	Overall from PHONO 1, 2	(at rated power, 1,000Hz)
Overall from PHONO 1, 2	Better than 75dB	Better than 50dB	
Overall from MIC	Better than 70dB	Overall from AUX, TAPE PB	
Overall from AUX, TAPE PB		LOUDNESS CONTROL	Better than 50dB
	Better than 90dB		(vol. at -30dB)
Volume at Minimum	Better than 90dB		+8dB at 100Hz, +5dB at 10,000Hz
INPUT SENSITIVITY AND IMPEDANCE		■ GENERAL	
	(at rated power, 1,000Hz)	Semiconductors	31 Transistors; 9 Diodes; 1 Zener Diode;
PHONO 1	3mV (47kΩ)	Power Source	2 ICs
PHONO 2	3mV (47kΩ)	Power Consumption	AC 110,117,130,220,240V,50/60Hz
PHONO 1, 2 Max. Input Capability	135mV	Max.	100 watts
MIC	3mV (40kΩ)	Rated	13 watts
MIC Max. Input Capability	400mV	AC Outlets	
AUX 1, 2	150mV (55kΩ)	Switched	1 (200 watts)
TAPE PB A, B	150mV (55kΩ)	Unswitched	2 (total 200 watts)
OUTPUT LEVEL AND IMPEDANCE		Dimensions	(W x H x D)
	(at rated power, 1,000Hz)		436 x 144 x 300mm (17½" x 5¾" x 12")
TAPE REC OUT A, B	150mV (1kΩ)	Weight	8kg (17.6lbs.)
DIN REC OUT	30mV (80kΩ)		
PRE OUT	450mV (2.7kΩ)		

## EXTERNAL VIEW

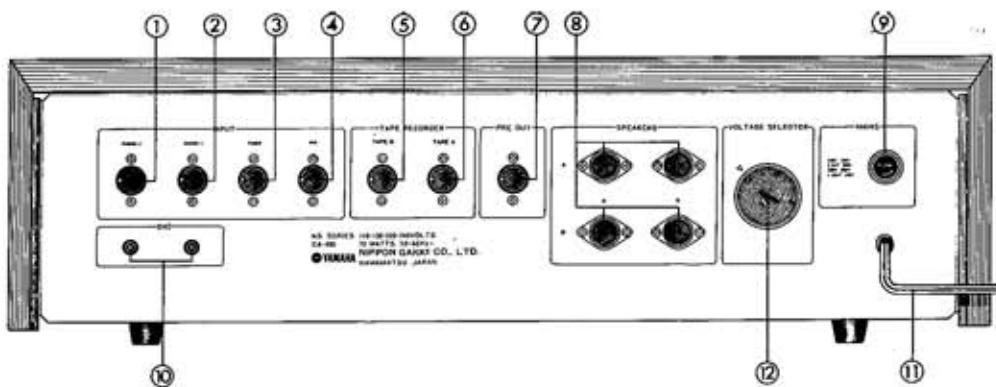
### FRONT PANEL



### REAR PANEL (U.S. & CANADIAN MODELS)



### REAR PANEL (EUROPEAN MODEL)



## **FRONT PANEL**

- |                       |                        |
|-----------------------|------------------------|
| ① BASS TONE CONTROL   | ⑩ POWER INDICATOR LAMP |
| ② TONE DEFEAT SWITCH  | ⑪ POWER SWITCH         |
| ③ TREBLE TONE CONTROL | ⑫ HEADPHONE JACK       |
| ④ MIC VOLUME CONTROL  | ⑬ SPEAKER SELECTOR     |
| ⑤ TAPE SELECTOR       | ⑭ MIC JACK             |
| ⑥ FUNCTION SELECTOR   | ⑮ LOW FILTER           |
| ⑦ LOUDNESS SWITCH     | ⑯ HIGH FILTER          |
| ⑧ BALANCE CONTROL     | ⑰ MODE SWITCH          |
| ⑨ VOLUME CONTROL      |                        |

## **REAR PANEL (U.S. & CANADIAN MODELS)**

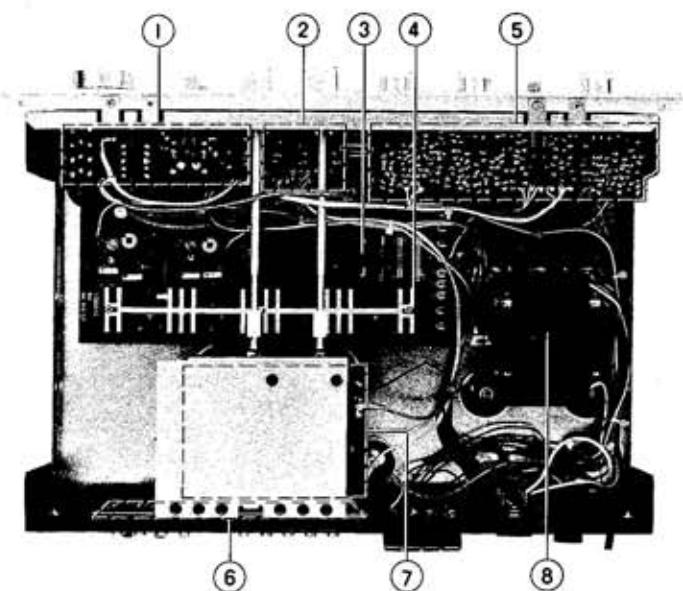
- |                        |                           |
|------------------------|---------------------------|
| ① PHONO-2 INPUT JACKS  | ⑨ PRE OUT JACKS           |
| ② PHONO-1 INPUT JACKS  | ⑩ SPEAKER TERMINAL        |
| ③ TUNER INPUT JACKS    | ⑪ AC OUTLET (Switched)    |
| ④ AUX INPUT JACKS      | ⑫ VOLTAGE SELECTOR        |
| ⑤ TAPE B REC OUT JACKS | ⑬ GROUND TERMINAL         |
| ⑥ TAPE B TAPE PB JACKS | ⑭ AC OUTLETS (Unswitched) |
| ⑦ TAPE A REC OUT JACKS | ⑮ PRIMARY FUSE            |
| ⑧ TAPE A TAPE PB JACKS | ⑯ AC CORD                 |

## **REAR PANEL (EUROPEAN MODEL)**

- |                           |                     |
|---------------------------|---------------------|
| ① PHONO-2 INPUT CONNECTOR | ⑦ PRE OUT CONNECTOR |
| ② PHONO-1 INPUT CONNECTOR | ⑧ SPEAKER TERMINALS |
| ③ TUNER INPUT CONNECTOR   | ⑨ PRIMARY FUSE      |
| ④ AUX INPUT CONNECTOR     | ⑩ GROUND TERMINALS  |
| ⑤ TAPE B REC/PB CONNECTOR | ⑪ AC CORD           |
| ⑥ TAPE A REC/PB CONNECTOR | ⑫ VOLTAGE SELECTOR  |

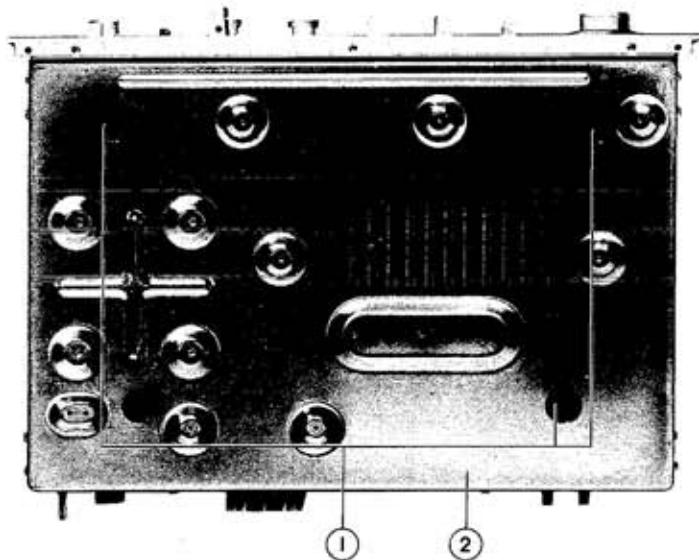
## INTERNAL VIEW

### TOP VIEW



- ① VOLUME CIRCUIT BOARD  
NA06560: U.S. and Canadian models  
NA06498: except U.S. and Canadian models
- ② FILTER CIRCUIT BOARD  
NA06557: U.S. and Canadian models  
NA06493: except U.S. and Canadian models
- ③ MAIN AMP CIRCUIT BOARD  
NA06495: General and Australian models  
NA06496: U.S. and Canadian models  
NA06497: European model
- ④ HEAT SINK
- ⑤ TONE CONTROL AMP CIRCUIT BOARD  
NA06558: U.S. and Canadian models  
NA06493: except U.S. and Canadian models
- ⑥ PIN JACK CIRCUIT BOARD  
NA06494: General and Australian models  
NA06559: U.S. and Canadian models  
DIN CONNECTOR CIRCUIT BOARD  
NA06499: European model
- ⑦ FUNCTION CIRCUIT BOARD  
NA06556: U.S. and Canadian models  
NA06491: except U.S. and Canadian models
- ⑧ POWER TRANSFORMER  
GA60742: European model  
GA60741: except European model

### BOTTOM VIEW



- ① LEG
- ② CHASSIS

## PARTIAL DISASSEMBLY

### BEFORE DISASSEMBLY

- a. The screwdriver for each screw should match the screw size. If you use a smaller or larger size it will damage the groove.
- b. If you use excessive force on the printed circuit board it will crack or cut the print wiring, so be careful.
- c. When using a soldering iron finish all work as quickly as possible.
- d. Be careful not to install switches and knobs in the wrong place or upside-down. See Fig. 1.

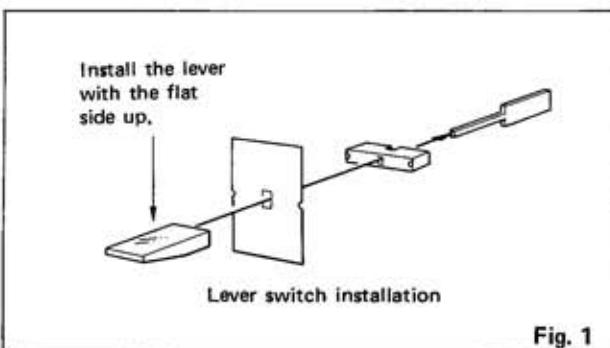


Fig. 1

### CABINET REMOVAL

- a. Remove screws 1~4 shown in Photo 1 (A), (B).
- b. Pull cabinet apart from the chassis as shown in Photo 2.

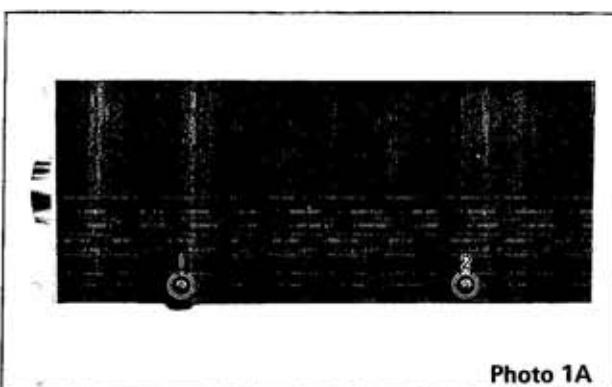


Photo 1A

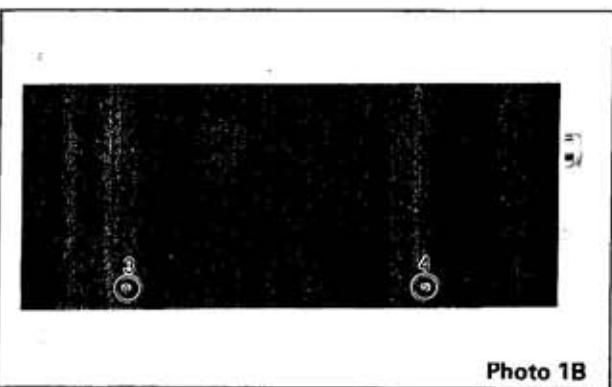


Photo 1B

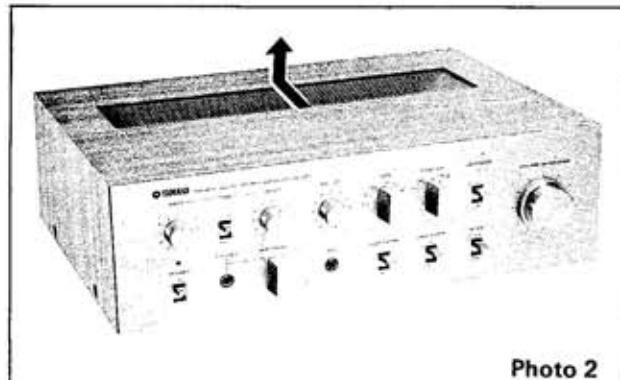


Photo 2

### FUNCTION CIRCUIT REMOVAL

- a. Loosen screws 1, 2 as shown in Photo 3 on main chassis.
- b. Slide the joint toward the front panel as shown in Photo 3, then remove the function circuit board from the extension shaft.
- c. Pull the function circuit board in the direction of the \*arrow in Photo 3, then lift it upward to remove.

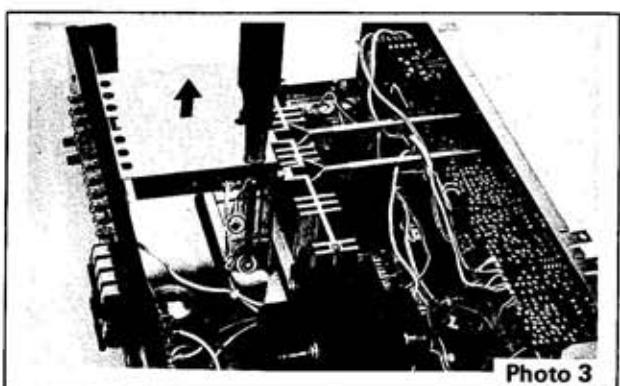


Photo 3

### MAIN AMP CIRCUIT BOARD REMOVAL

- a. Slide the joint toward the front panel as shown in Photo 3, then remove the function circuit board from the extension shaft.
- b. Remove screws 1~5 shown in Photo 4, then lift it upward to remove.

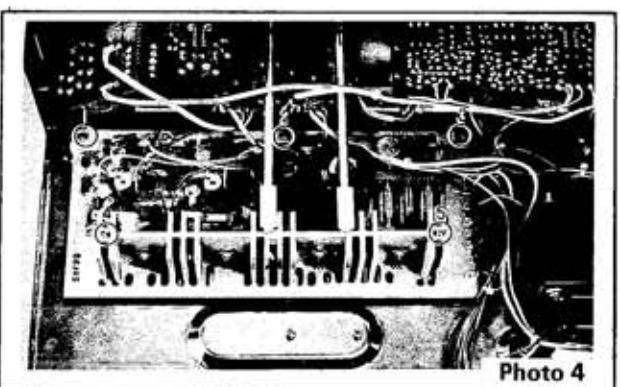
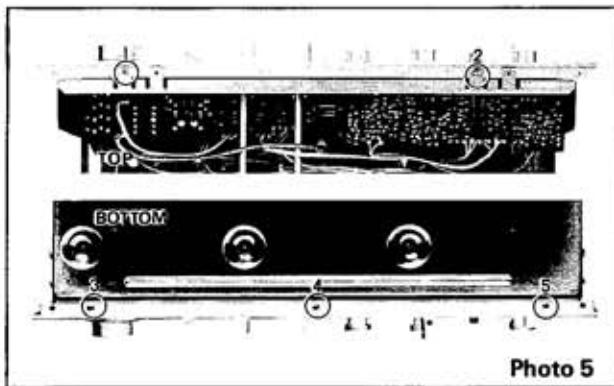


Photo 4

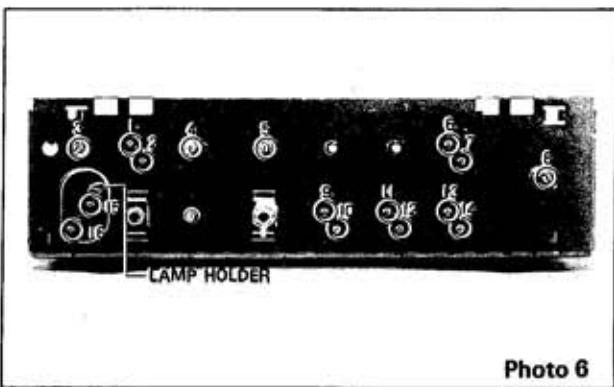
#### FRONT PANEL REMOVAL

- a. Remove all knobs. Use a hexagonal wrench to loosen the nuts on the TAPE, FUNCTION, SPEAKERS and BALANCE functions. Then remove these and other switches.
- b. Remove screws 1~5 as shown in Photo 5, then remove the front panel.



#### TONE CONTROL AMP CIRCUIT BOARD REMOVAL

- a. Remove the front panel.
- b. Remove screws 1, 2 and nuts 3~5 as shown in Photo 6. Tone control circuit board can now be removed.



#### VOLUME CIRCUIT BOARD REMOVAL

- a. Remove the front panel.
- b. Remove screws 6, 7 and nut 8 as shown in Photo 6. Volume circuit board can now be removed.

#### FILTER CIRCUIT BOARD REMOVAL

- a. Remove the front panel.
- b. Remove screws 9~14 as shown in Photo 6. Filter circuit board can now be removed.

#### POWER SWITCH REMOVAL

- a. Remove the front panel.
- b. Slide the lamp holder to the right as shown in Photo 6 and remove it. When reinstalling the pilot lamp, be careful that it is not placed so far forward that it touches the front panel; it should not be too far from the lamp holder.
- c. Remove screws 15, 16 as shown in Photo 6, then remove the Power Switch.

#### PIN JACK (DIN) CIRCUIT BOARD REMOVAL

- a. Remove the function circuit board.
- b. Push plastic rivets 1~8 with screwdriver as shown in Photo 7 remove it. Pin jack circuit board can now be removed.

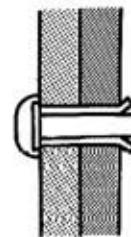
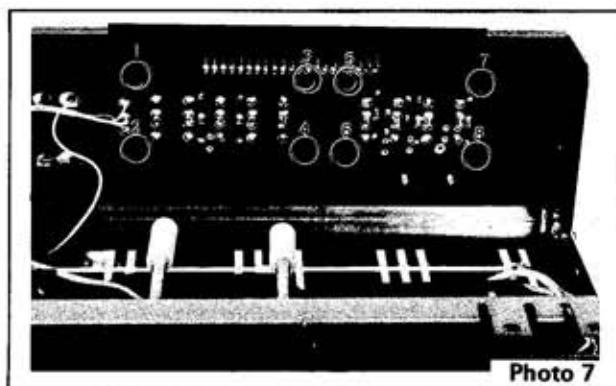


Fig. 2

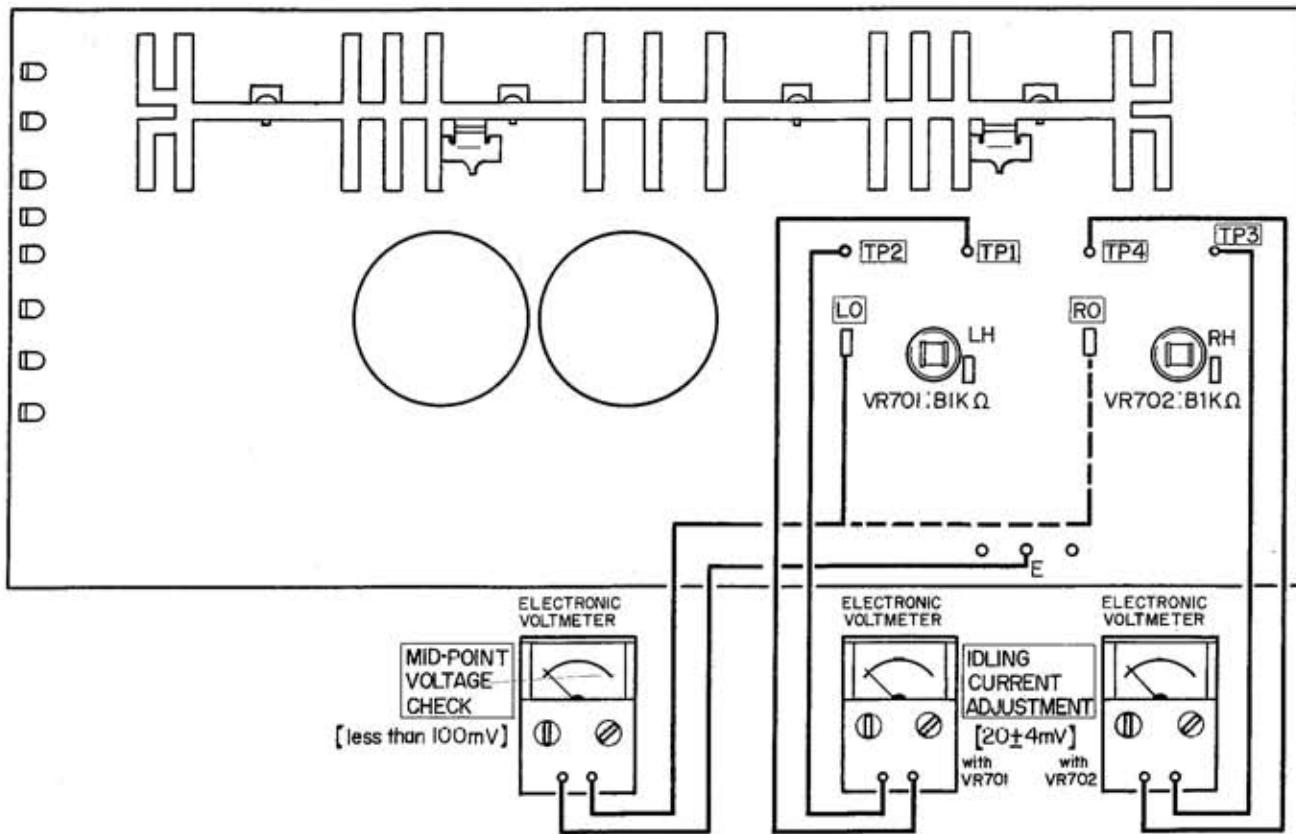
## ADJUSTMENT

### BEFORE ADJUSTMENT

- Carry out adjustment immediately after switching on the power, then readjust a few minutes later, so that all measurements fall within the prescribed standards.

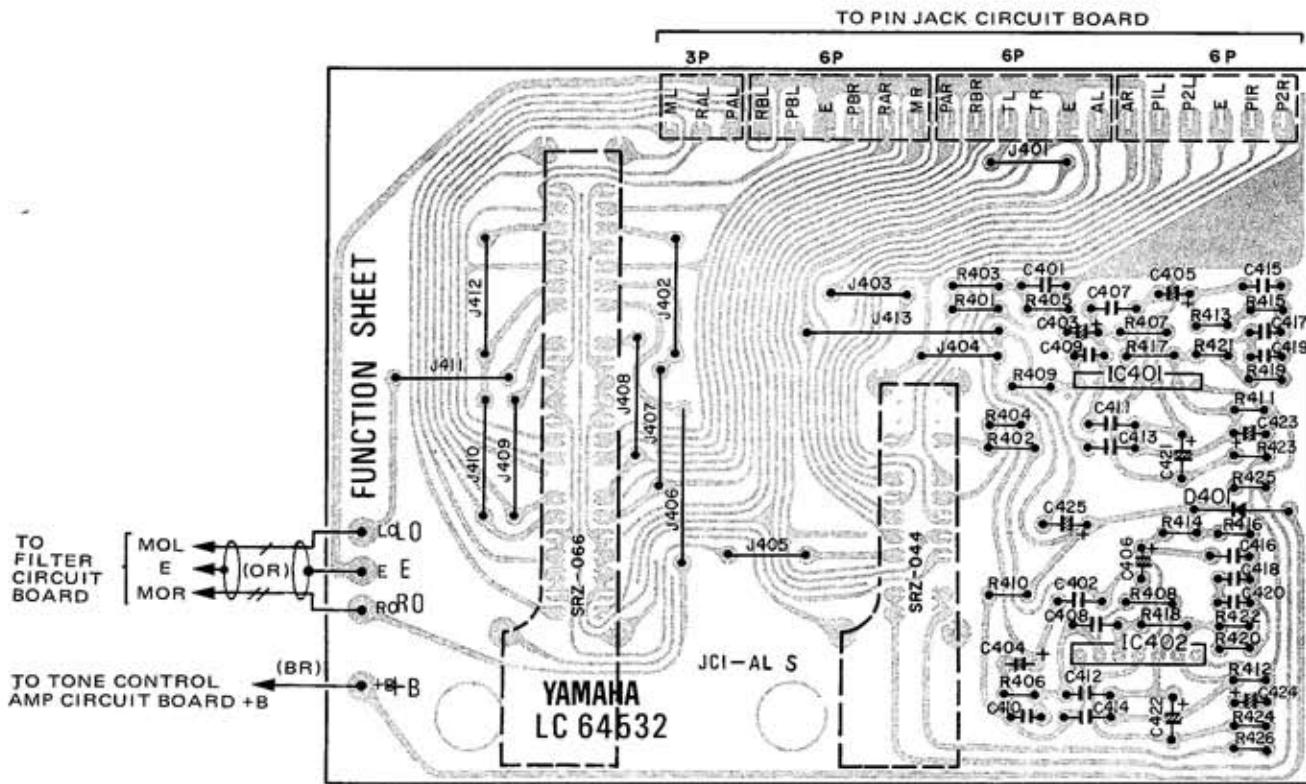
- During adjustment be sure to short the main amp circuit board input terminals, do not connect the speakers or dummy load resistors to the output terminals; leave them open.

ADJUSTMENT	CONNECTION TERMINAL(s) AND INSTRUMENT(s)	ADJUSTMENT POINT	ADJUSTMENT METHOD	STANDARD MEASUREMENT
Bias current adjustment	Connect a voltmeter between TP1 and TP2 then between TP3 and TP4.	VR701, VR702	Adjust VR701 and/or VR702 so that the voltage between the TPs falls within the standard ratio.	$20 \pm 4\text{mV}$



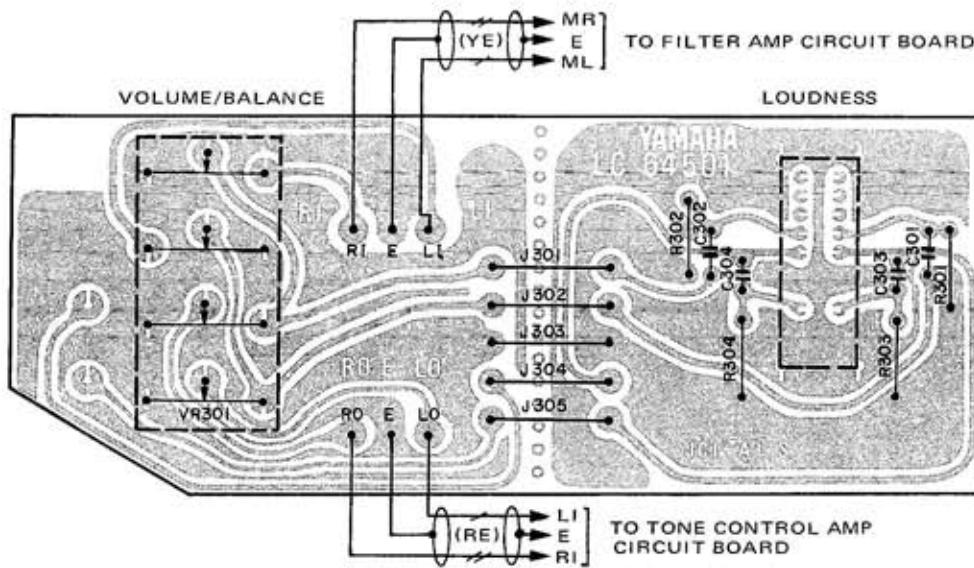
## PRINTED CIRCUIT BOARD

**FUNCTION CIRCUIT BOARD** NA06491: GENERAL, AUSTRALIAN & EUROPEAN MODELS  
NA06556: U.S. & CANADIAN MODELS

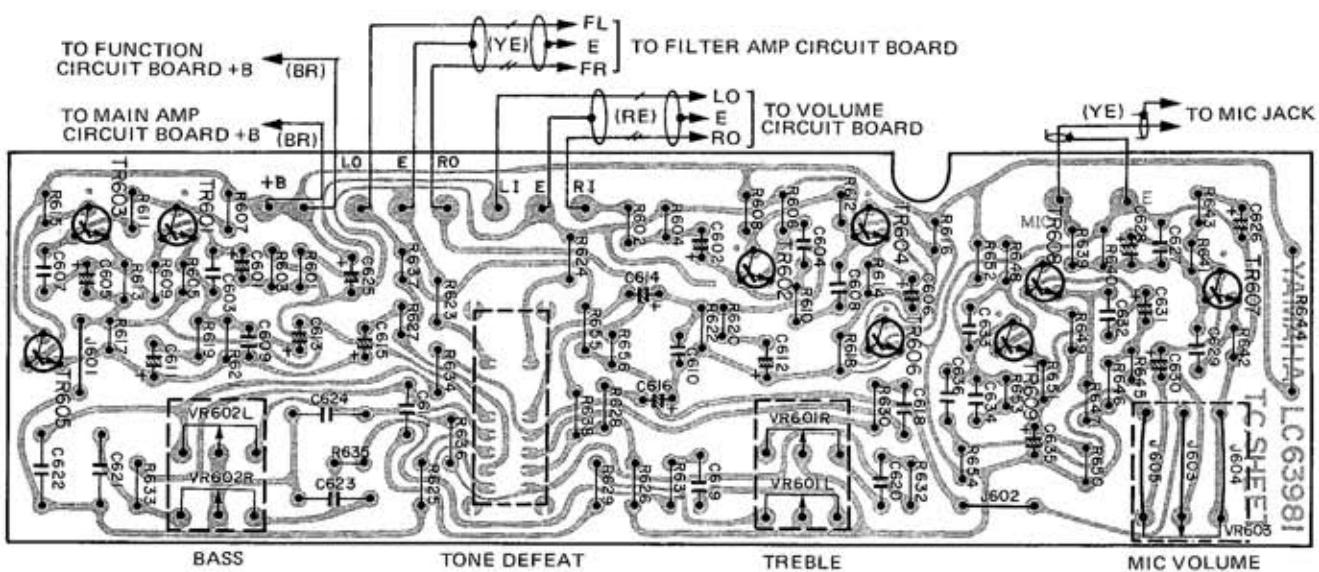


## VOLUME CIRCUIT BOARD

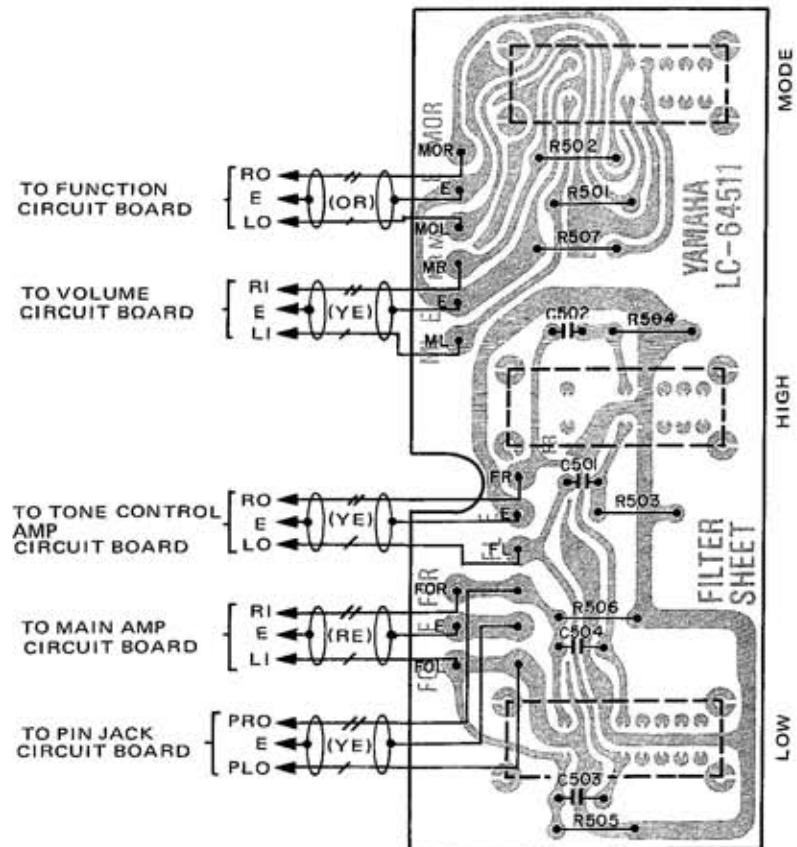
NA: 06560



**TONE CONTROL AMP CIRCUIT BOARD** NA06493: GENERAL, AUSTRALIAN & EUROPEAN MODELS  
NA06558: U.S. & CANADIAN MODELS

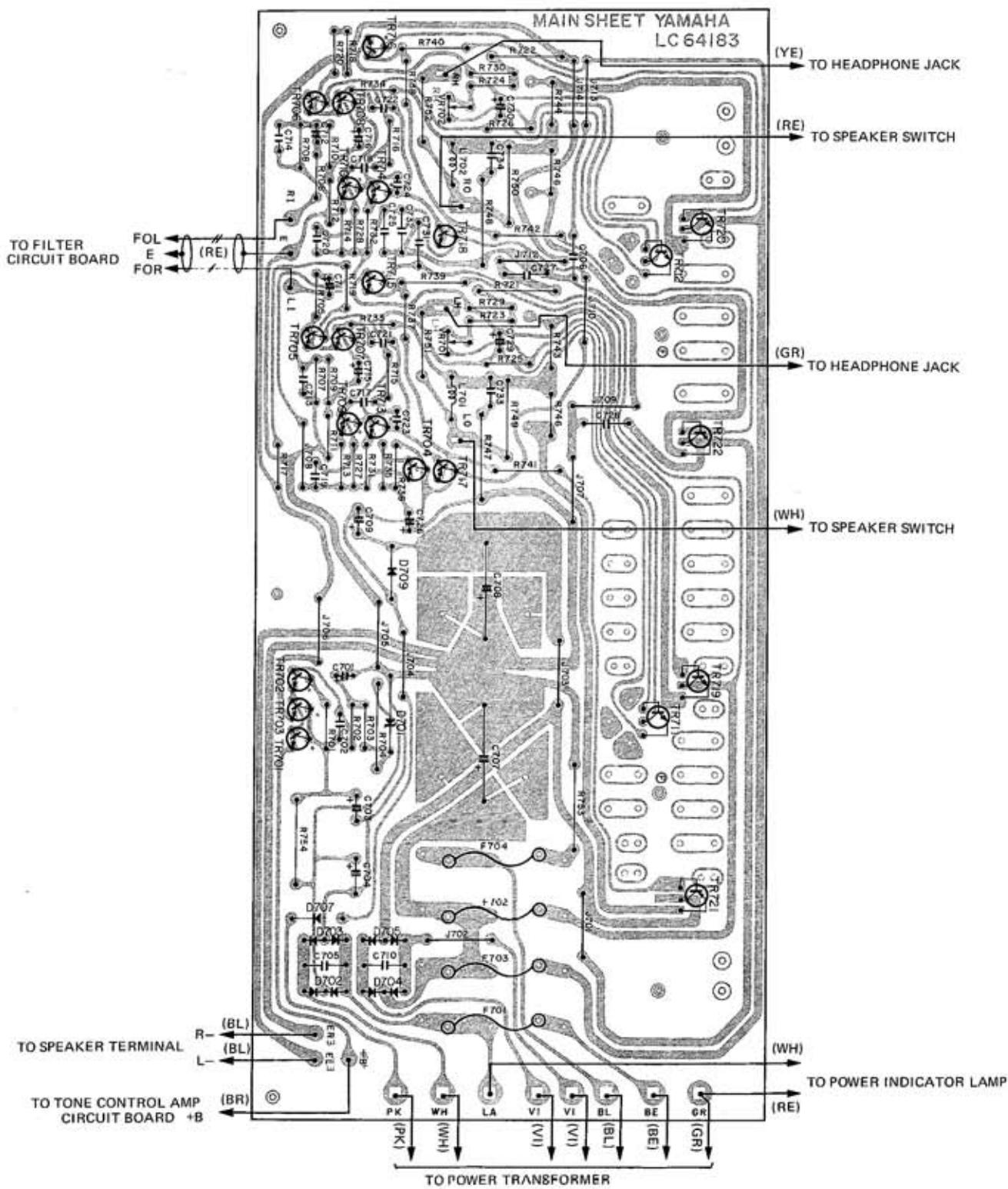


**FILTER CIRCUIT BOARD** NA06492: GENERAL, AUSTRALIAN & EUROPEAN MODELS  
NA06557: U.S. & CANADIAN MODELS

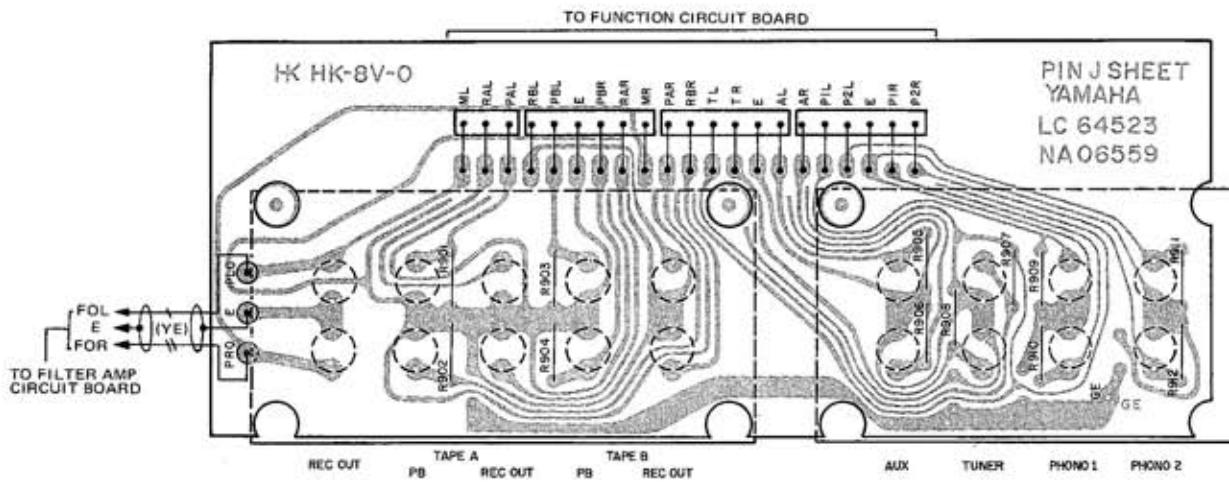


**MAIN AMP CIRCUIT BOARD**

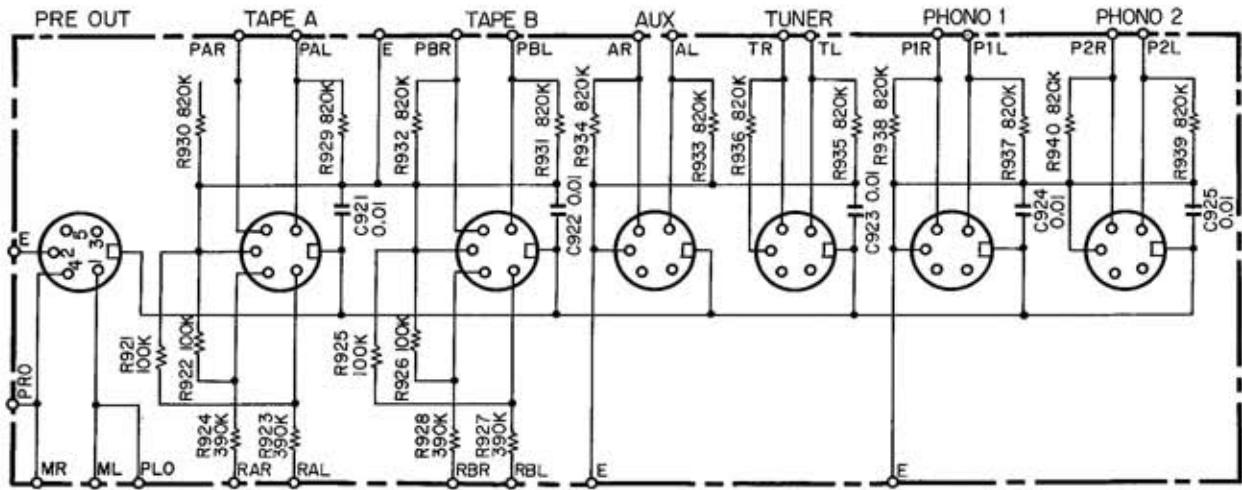
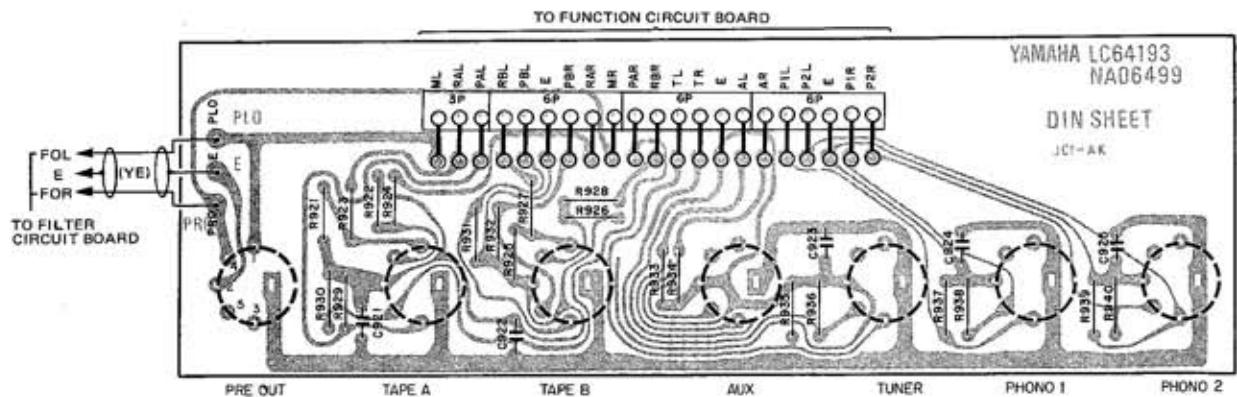
NA06495: GENERAL, AND AUSTRALIAN MODELS  
NA06496: U.S., & CANADIAN MODELS  
NA06497: EUROPEAN MODEL



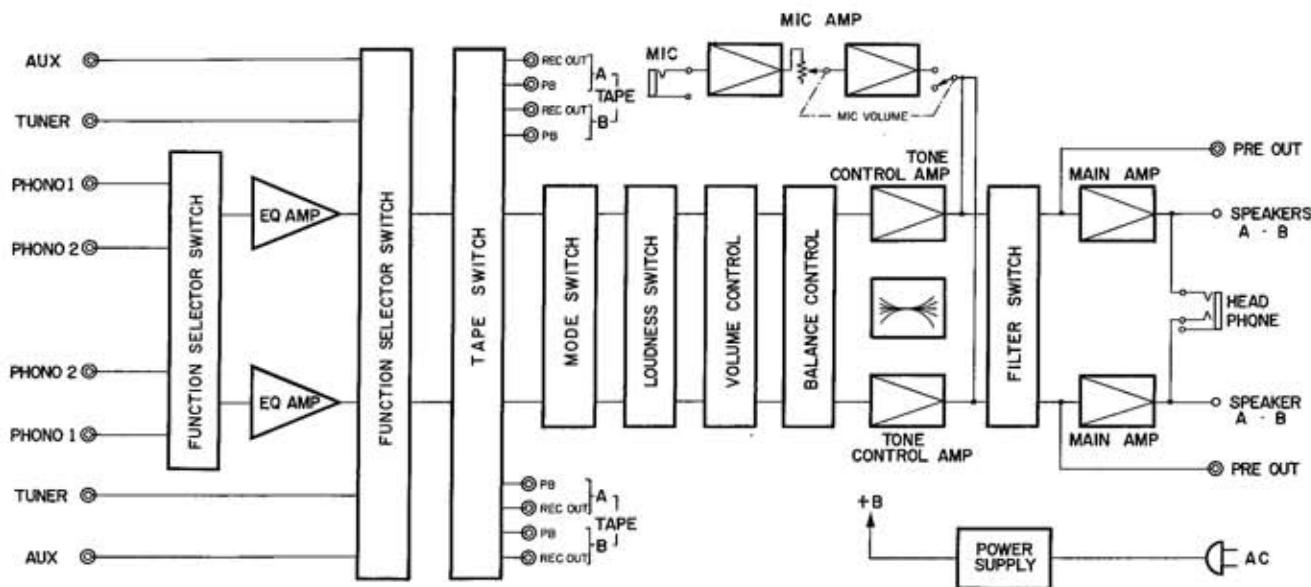
**PIN JACK CIRCUIT BOARD** NA06494: GENERAL, AND AUSTRALIAN MODELS  
NA06559: U, S, & CANADIAN MODELS



**DIN CONNECTOR CIRCUIT BOARD** NA06499: EUROPEAN MODEL ONLY



## BLOCK DIAGRAM



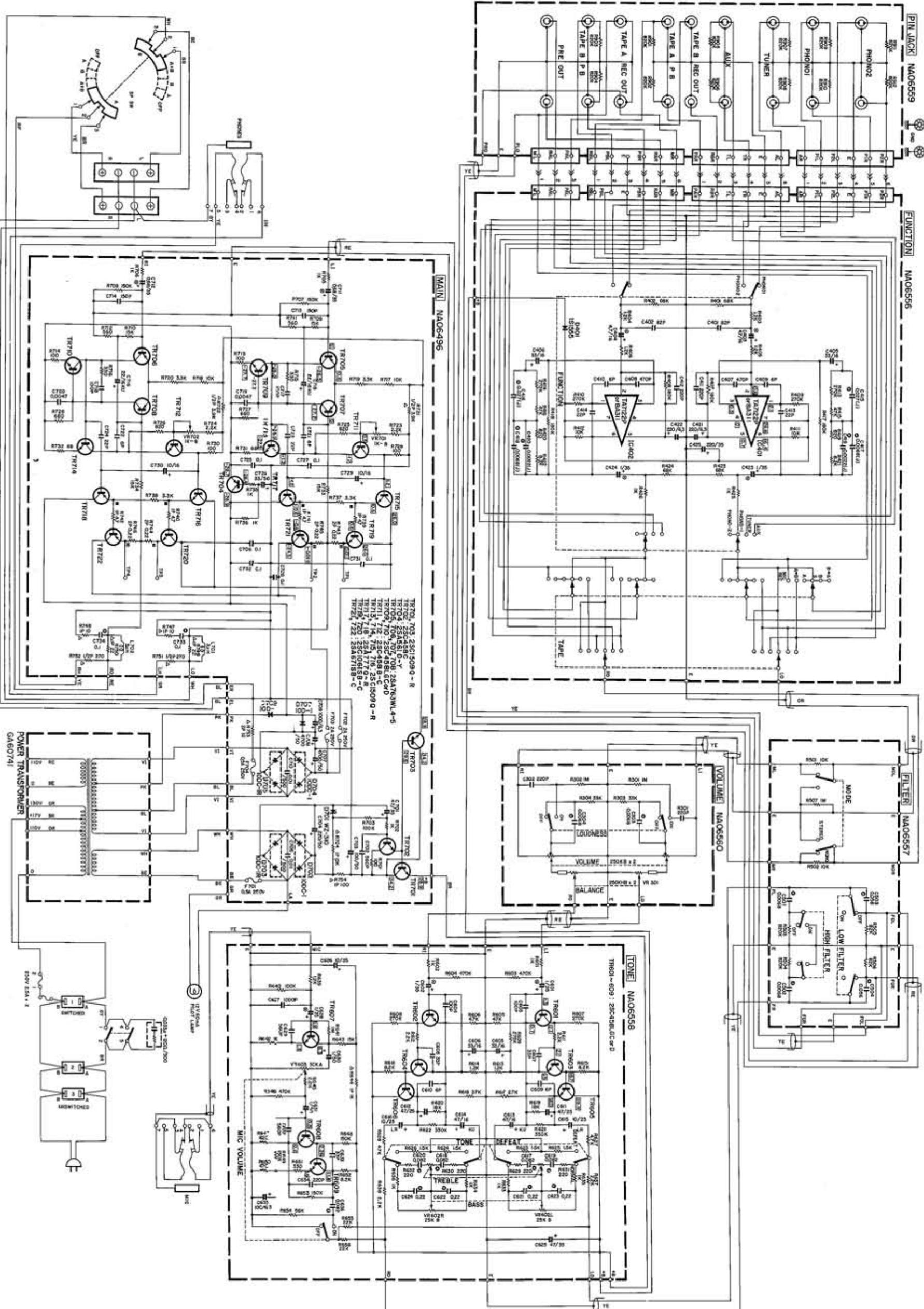
### WIRE COLOR ABBREVIATIONS

BL ▶ Black	VI ▶ Violet
BR ▶ Brown	GY ▶ Gray
RE ▶ Red	WH ▶ White
OR ▶ Orange	GG ▶ Light Green
YE ▶ Yellow	SB ▶ Light Blue
GR ▶ Green	PK ▶ Pink
BE ▶ Blue	

SYMBOL	PARTS NAME
—W—	FUSE RESISTOR
△	METAL OXIDE RESISTOR
□	CEMENT RESISTOR
NO MARK	CARBON RESISTOR
☒	CEMENT MOLDED RESISTOR
▲	METAL OXIDE FILM RESISTOR
◎	METAL PLATE RESISTOR

SYMBOL	PARTS NAME	REMARKS
◎	MYLAR CAPACITOR	—II—
NO MARK	CERAMIC CAPACITOR	
○	POLYSTYRENE CAPACITOR	
NO MARK	(BI-POLAR) ELECTROLYTIC CAPACITOR	
●	LOW-NOISE ELECTROLYTIC CAPACITOR	—II—
◎	TANTALUM CAPACITOR	

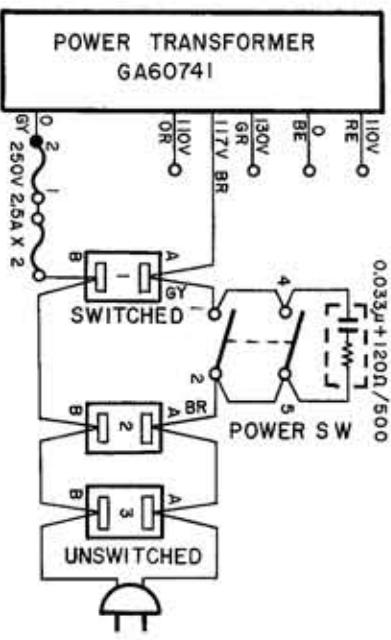
# OVERALL SCHEMATIC DIAGRAM



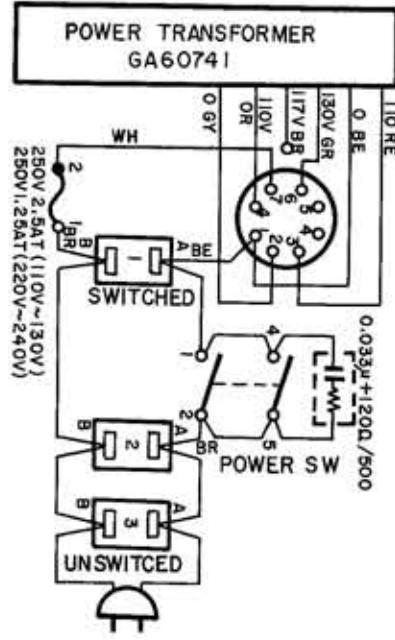
## PARTIAL CHANGES MADE ACCORDING TO DESTINATION

### ▼POWER

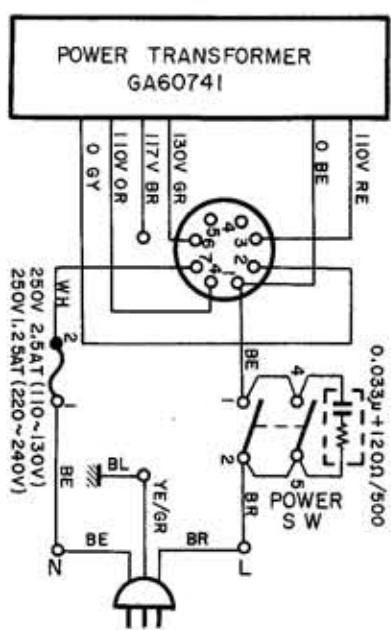
#### ●U.S. & CANADIAN MODELS



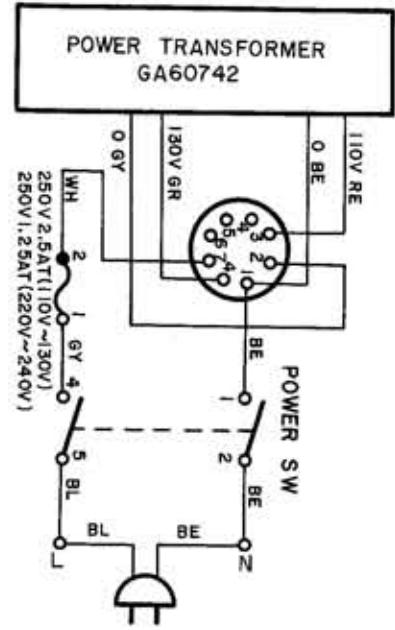
#### ●GENERAL MODEL



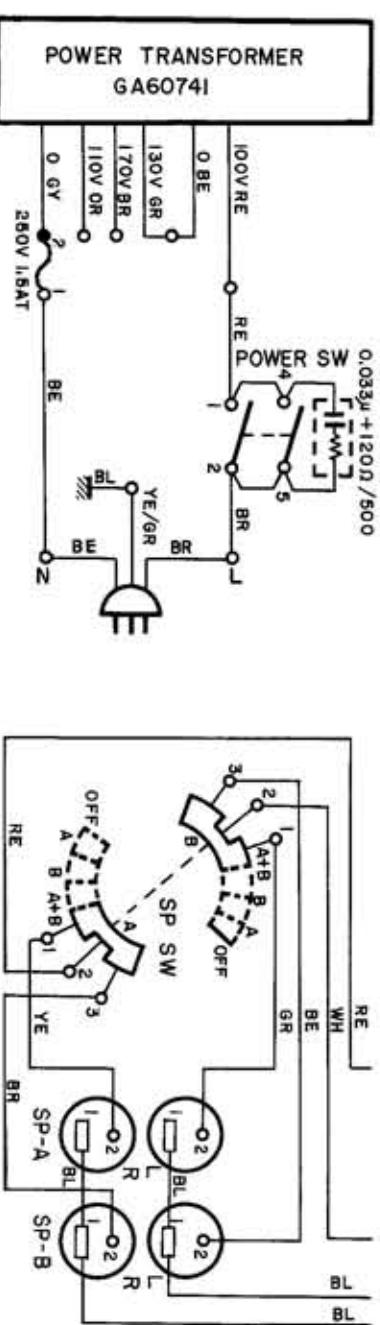
#### ●SOUTH AFRICAN MODEL



#### ●EUROPEAN MODEL



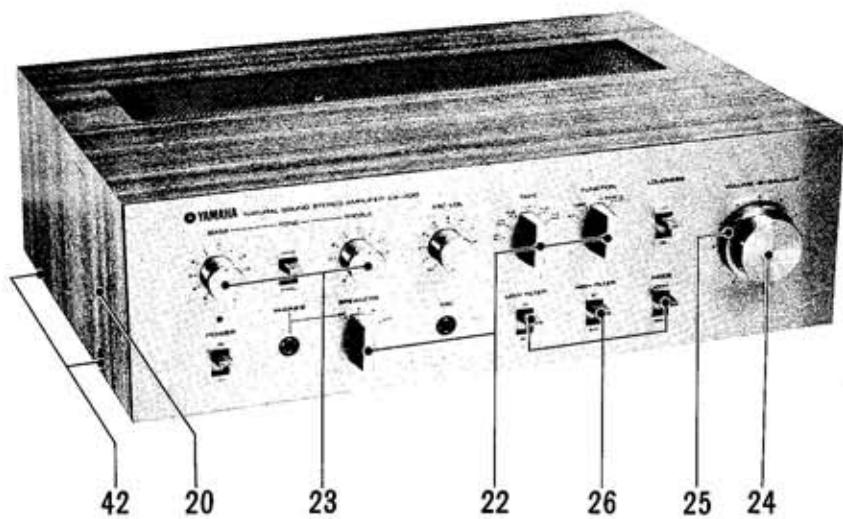
#### ●AUSTRALIAN MODEL



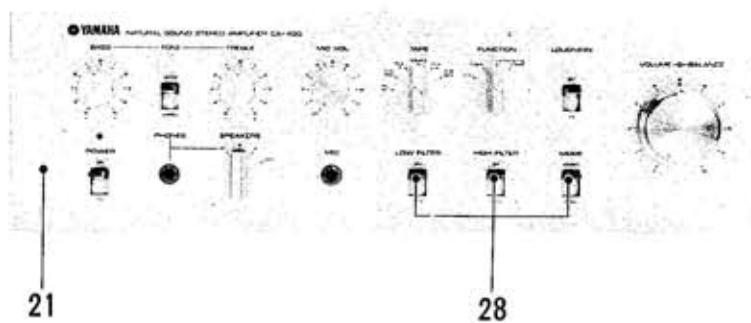
#### ▼SPEAKER CONNECTOR (EUROPEAN MODEL ONLY)

## PARTS LIST

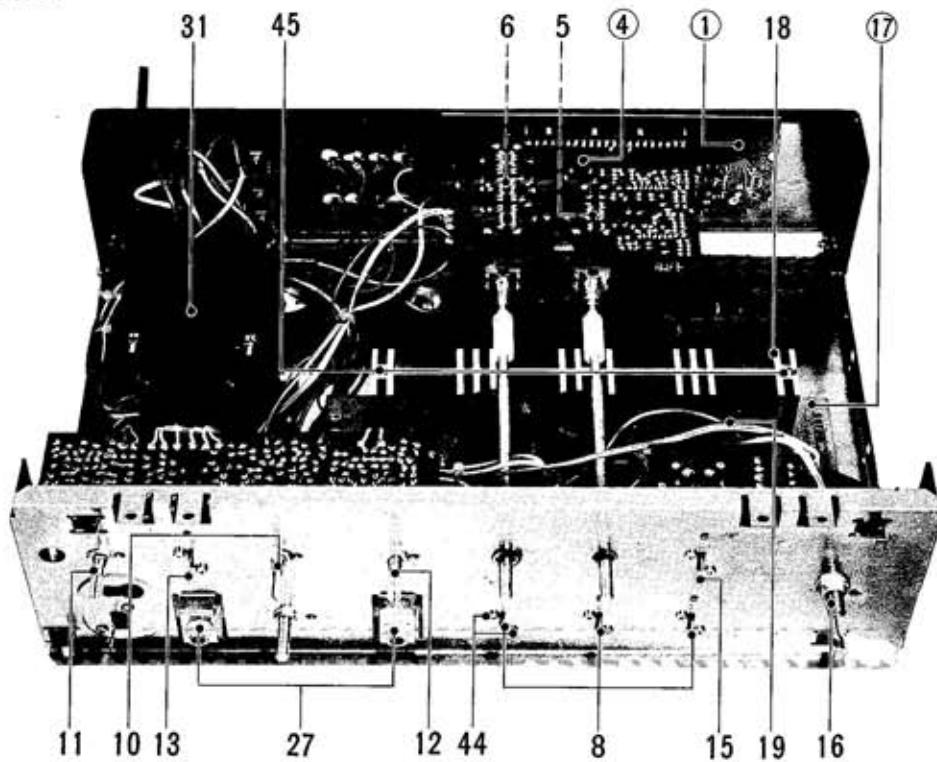
### FRONT VIEW



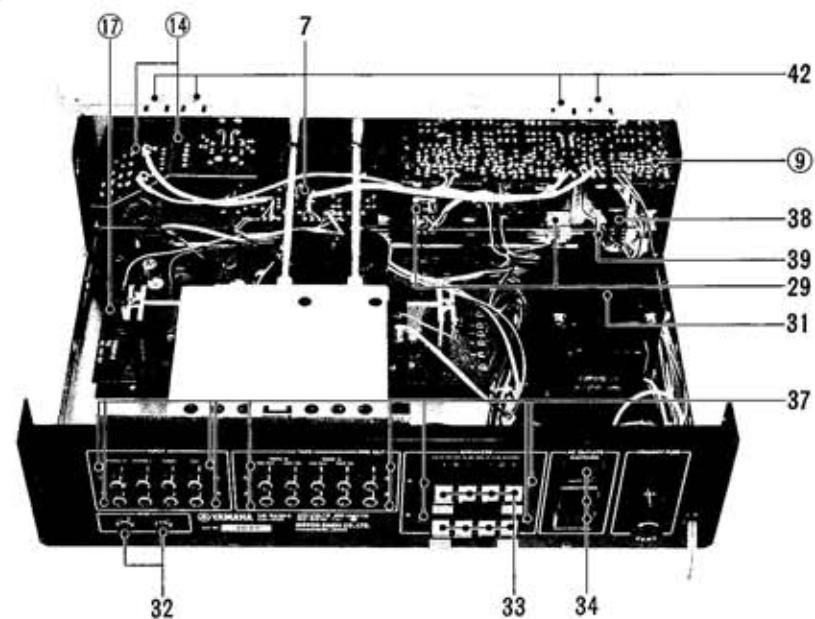
### FRONT VIEW



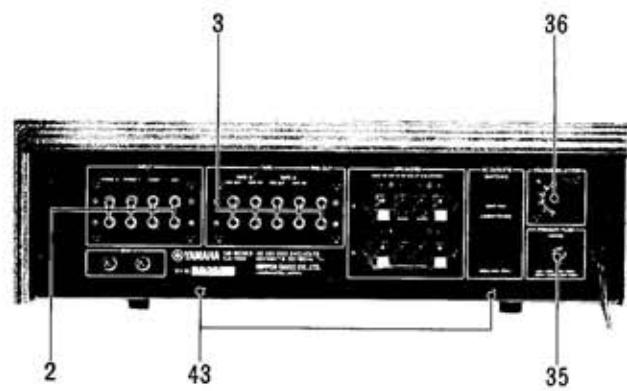
### INTERNAL VIEW



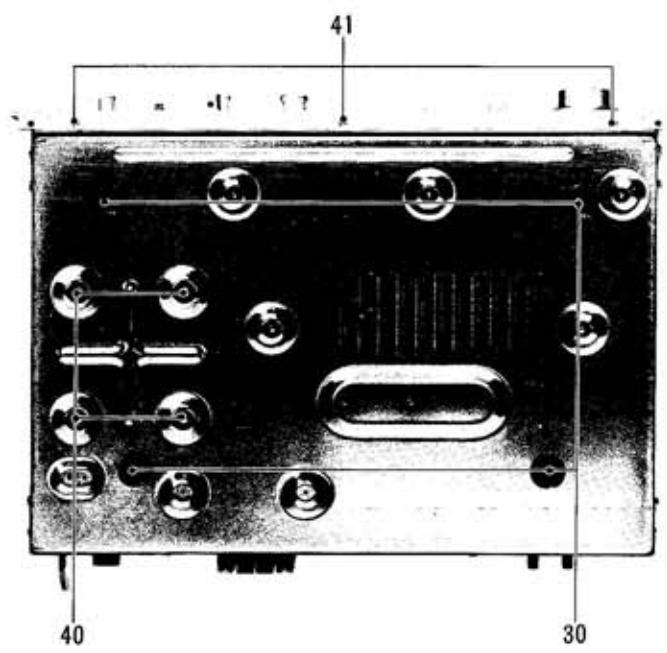
### INTERNAL VIEW



### BACK VIEW



### BOTTOM VIEW



Ref. No.	Part No.	Description		Remarks	Common Models
①	NA06494	Pin jack circuit board	# 63990	ピンジャックシート	Except U.S., Canadian & European models
	NA06559	"	# 6452	"	U.S. & Canadian models
	LB30012	Connector pin	2183 - 3A	コネクターピン	
	LB60027	"	2402 - 6A	"	
2	LB60039	8P pin jack		8P ピンジャック	
3	LB60049	10P "		10P ピンジャック	
	NA06499	DIN connector circuit board	# 64190	D I N シート	European model
	LB30012	Connector pin	2183 - 3A	コネクターピン	
	LB60027	"	2402 - 6A	"	
	LB50009	DIN connector socket	5P SMK	D I N ソケット	
④	NA06491	Function circuit board	# 63910	ファンクションシート	Except U.S. & Canadian models
	NA06556	"	# 64530	"	U.S. & Canadian models
	FP13647	Tantalum Capacitor	4.7μF 16V	タンタルコン	
	FP15610	"	1μF 35V	"	
	iG00011	Integrated circuit	TA-7122P	I C	
	iG00037	"	BA-311	I C	
	iF00004	Diode	1S1555	ダイオード	
5	KA50024	Rotary switch	SRZ-V-044	ロータリースイッチ	
6	KA50040	"	SRZ-066	"	L = 25 Non-shorting
	LB30013	Connector socket	2145-3A	コネクターソケット	
	LB60028	"	2145-6A	"	
⑦	NA06492	Filter circuit board	# 63920	フィルターシート	Except U.S. & Canadian models
	NA06557	"	# 6451	"	U.S. & Canadian models
8	KA20014	Lever switch	SLA-34301	レバースイッチ	Shorting
⑨	NA06493	Tone control circuit board	# 63980	トーンコンシート	Except U.S. & Canadian models
	NA06558	"	# 64490	"	U.S. & Canadian models
	FJ53747	Electrolytic capacitor	4.7μF 16V	ケシコン K U型	KU type

Ref. No.	Part No.	Description			Remarks	Common Models
	FJ66610	"	1 $\mu$ F 50V	ケシコン L R型	LR type	
	FJ64710	"	10 $\mu$ F 25V	"	"	
	FP15610	Tantalum capacitor	1 $\mu$ F 35V	タンタルコン		
10	HS41020	Variable resistor V16R	B10KΩx2	可変抵抗	With 11 clicks	
11	HS41021	"	B25KΩx2	"	"	
12	HS41015	"	A50K	"	With switch	
13	KA20012	Lever switch	SL34202	レバースイッチ	Shorting	
	iC04589	Transistor	2SC458 LG C or D	トランジスター		
⑭	NA06498	Volume circuit board	# 64081	ボリュームシート	Except U.S. & Canadian models	
	NA06560	"	# 64501	"	U.S. & Canadian models	
15	KA20012	Lever switch	SL34202	レバースイッチ	Shorting	
16	HS12041	Variable resistor	250KΩ12x2 250KΩBx2 With C.T.	可変抵抗		
⑯	NA06495	Main amp circuit board	# 64000	メインシート	General & Australian models	
	NA06496	"	"	"	U.S. & Canadian models	
	NA06497	"	# 64180	"	European model	
	HZ00021	Cement molded resistor (fire proof)	4.7Ω 1P	不燃性抵抗		
	HZ00058	Fuse resistor	100Ω ½P	ヒューズ抵抗		
	HL40527	Metal oxide resistor	270Ω ½P	酸化金属抵抗		
	HL40639	"	3.9kΩ "	"		
	HL41410	"	10Ω 1P	"		
	HL41422	Metal oxide resistor	22Ω 1P	"		
	HL41615	"	1.5kΩ 1P	"		
	HL42410	"	10Ω 2P	"		
	HZ00033	Metal plate resistor	0.22Ω 2P	金属板抵抗		
	GD90005	Coil	3 $\mu$ H	コイル		
	FJ53722	Electrolytic capacitor	22 $\mu$ F 16V	K U型ケシコン	KU type	
	FP15568	Tantalum capacitor	0.68 $\mu$ F 35V	タンタルコン		

Ref. No.	Part No.	Description		Remarks	Common Models	
	iH00008	Diode	10DC-1	ダイオード	for service iH00014	
	iH00009	"	10DC-1R	"	for service iH00015	
	iH00003	"	10D-1	"	for service iH00006	
	iF00022	Zener Diode	WZ-310	ツエナーダーオード		
	iA05617	Transistor	2SA561 O or Y	トランジスター		
	iA07630		2SA763	"		
	iA06719		2SA671S B or C	"		
	iA07773		2SA777 Q or R	"		
	iC04588		2SC458 B or C	"		
	iC10618		2SC1061S B, C or D	"		
	iC15093		2SC1509 Q or R	"		
	HT41002	Variable resistor	SV10KR B1K	可変抵抗器		
	iL00005	Insulator for transistor	2SC1061	Tr用絶縁板	AC221	
	LB20057	Fuse holder pin	SN-5053	ヒューズホルダーピン		
18	BA06522	Heat sink	No. 6522	放熱器		
19	BB06308	Transistor clammer	No. 6308	Trブッシャー		
	iL000025	Bush No. 25 2.6 mm		ブッシュ	PPO	
	FJ21910	Electrolytic capacitor	1000μF 6.3V	ケシコン(タテ)		
	FM05947		4700μF 50V	ケシコン(キバン)		
	KB00031	Fuse	0.5AT 250V	耐ラッシュヒューズ	General & Australian models	
	KB00036	"	2AT 250V	"	"	
	KB00101	Fuse, UL listed	0.5AT 250V	ULヒューズ	U.S. & Canadian models	
	KB00103	" "	2AT 250V	"	"	
	KB00071	Miniature fuse	0.5A 250V	(S)ヒューズ速断	European model	
	KB00056	" "	2A 250V	"		
20	320037005000	Outside case		外装箱 A/W		
21	NB06942	Front panel unit		フロントパネルユニット		
22	BA06442	Knob	No. 6442	スイッチツマミ	Switch	
23	BA06446	"	No. 6446	トーンコントローラ	Tone control	
24	BA06576	Double knob	No. 1576	ボリュームツマミ	Volume	
25	BA06577	"	No. 6077	バランスツマミ	Balance	
26	CB06857	Lever knob		レバーツマミ		

Ref. No.	Part No.	Description			Remarks	Common Models	
27	CB06827	Phone nut		ホーンナット			
	CB06858	Bush	No. 6858	スイッチブッシュ	Switch		
28	CB06872	Switch apron	No. 6872	スイッチエプロン			
	CB06862	Lamp holder		ランプホルダー			
	CB06861	Lamp lens	No. 6861	ランプレンズ			
29	LB10007	Phone jack		ホーンジャック			
30	CB06855	Leg	No. 6855	脚			
31	GA60741	Power transformer		電源トランス	Except European model		
	GA60742	"		"	European model		
	LA00104	3P terminal lug		3P中継端子台	Australian & European models		
32	LA00107	Ground terminal	(knob type)	アース端子			
33	LA00132	4PE push terminal	X-Q2366	スピーカー端子	Except European model		
	LB20005	DIN 2P socket	CS-220	DIN 2Pソケット	European model		
34	LB20071	AC connector socket (spring type)		ACコンセント	General, U.S. & Canadian models		
35	LB20048	" (UL type)		"	Except European model		
	LB20059	" FEB031-1401		"	European model		
	KB00043	Fuse	1.25AT 250V	ヒューズ	General model		
	KB00111	Fuse, UL listed	2.5A 250V SS-2	"	U.S. & Canadian models		
	KB00068	Miniature fuse	1.25AT 250V	"	European model		
	KB00088	Lead type fuse	2.5A 250V ASF-3	"	U.S. & Canadian models		
	KB00034	Fuse	1.5AT 250V	"	Australian model		
36	LB20025	Voltage selector	033-3001	電圧切換器	General & European models		
37	CB06888	Plastic rivet		プラスチックリベット			
	KA50033	Rotary switch		ロータリースイッチ	Speaker selector		
38	KA20010	Lever switch	JL-04	パワースイッチ	Except European model		
	KA20011	" JL-08		"	European model		
39	FZ00011	Spark killer	0.33μF +120Ω	スパークキラー	Except European model		
	TX90083	Hexagonal wrench	2.0 mm	6角棒レンチ			
	NB06678	Service pad	No. 6678	サービスパッド			
	MZ06189	Connection cord	Pin-Pin	接続コード	Except European model		
	MZ06160	" DIN-DIN		"	European model		
	LB10018	Shorting plug, Black		ショートプラグ	Except European model		
	JB00023	Pilot lamp (lead type)	12V 60mA	リード付ランプ			

Ref. No.	Part No.	Description				Remarks	Common Models
40		Pan-head FT screw	M4 P0.7 x 8	ZMC2-Y	なべFTネジ	Transformer	
41		"	M3 P0.5 x 6	ZMC2-Y	"	Front panel	
42		"	4 x 20S	FNM3-3g	ナベ小ネジ	Outside case	
		Binal tapping screw	3 x 6S	ZMC2-Y	バインドタッピング ネジ 2種	Main circuit board	
43		"	M4 0.7 x 8	ZMC2-Y	"	Rear panel	
		"	M4 0.7 x 8	ZMC2-Y	"	"	
		"	3 x 12S	ZMC2-Y	"	Leg	
		"	3 x 20S	ZMC2-Y	バインドタッピング ネジ 1種		
44		Bind screw	3 x 4S	ZMC2-Y	バインドコネジ2種	Lever switch	
45		Pan-head screw	3 x 55S	ZMC2-Y	なべこネジ	Heat sink	
EV20104		Flat washer 4¢	FNN3-3g		平座金ミガキ丸	Outside case	
EV41304		Toothed washer 4S	FCM3		歯付座金	Rear panel	
EV20040		Flat washer M4	ZMC2-Y		平座金	Transformer	