SERVICE MANUAL

PM-430

PA-MIXER

SINCE 1887 YAMAHA

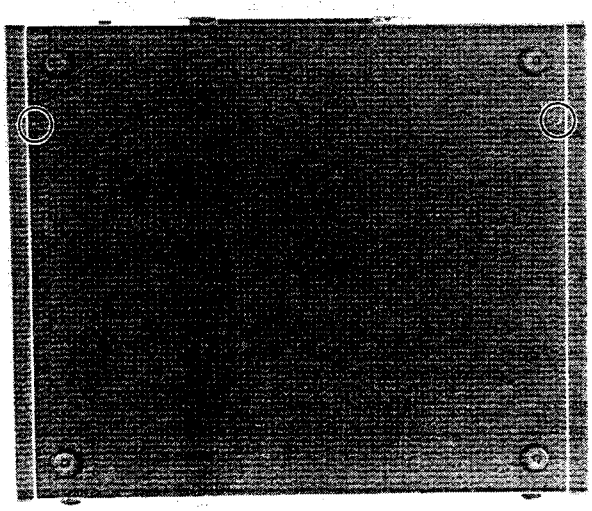
NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

2000 Printed in Japan 8·76

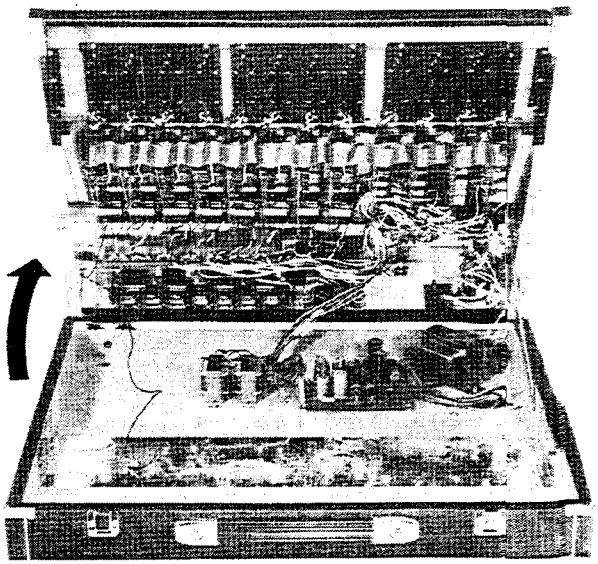
CONTENTS

REMOVING THE PM-430 UNIT

1. Remove the 2 mounting screw located on the back of the unit.



2. Raise the control panel portion as shown by the arrow and lock in upright position by means of the hinge on the right side of the unit.



1. SPECIFICATIONS

Frequency Response	± 0.5dB @50Hz ~ 15KHz
Total Harmonic Distortion	Less than 0.1% @ + 20dBm 30Hz ~ 30KHz
Hum and Noise	−123dBm Equivalent Input Noise.
(20Hz ~ 20KHz)	−69dBm @Master Fader & One Input Fader at nominal level.
Maximum Voltage Gain	PROGRAM 66dB
	MONITOR-1 72dB
	MONITOR-2 66dB
	AUX IN 36dB
	SUB IN 6dB
Equalization	Low ± 15dB @100Hz
	High ± 15dB @10KHz
Crosstalk	−60dB @1KHz Adjacent Input
Inputs	8 x Channel Inputs (Microphone and Line Sources)
	2 x High Level Input
	1 x Aux In (Line and Instruments)
	2 x Sub In (Submixer Input)
	1 x From Echo (Echo Machine)
Outputs	2 x Program Out A (L & R)
	2 x Program Out B (L & R)
	2 x Monitor Out
	1 x To Echo (Echo Machine)
	2 x Aux Out (L & R)
	1 x Stereo Headphone (Console Operator's Monitor)
Mixing Buses	2 x Master Program Fader
	2 x Master Monitor Fader
	2 x Master EQ (High & Low)
	1 x AUX IN & AUX PAN
	8 x Channel Fader
	8 x Channel EQ (High & Low)
	8 x Monitor -1
	8 x Monitor -2
	8 x Pan
	8 x Input Level Switch (−20/−40/−50dBm)
	1 x Phones Volume
	2 x VU Meters
	2 x VU Meter Select Switch
Power Supply	110, 117, 130, 220 or 240V, AC 50/60Hz 23W (117V 0.3A CSA Model)
Dimensions	Wide 59.5cm (23.4") x High 18.8cm (7.4') x Depth 51.6cm (20.3")
Weight	16kg (35.3 lbs)

INPUT LEVEL · IMPEDANCE

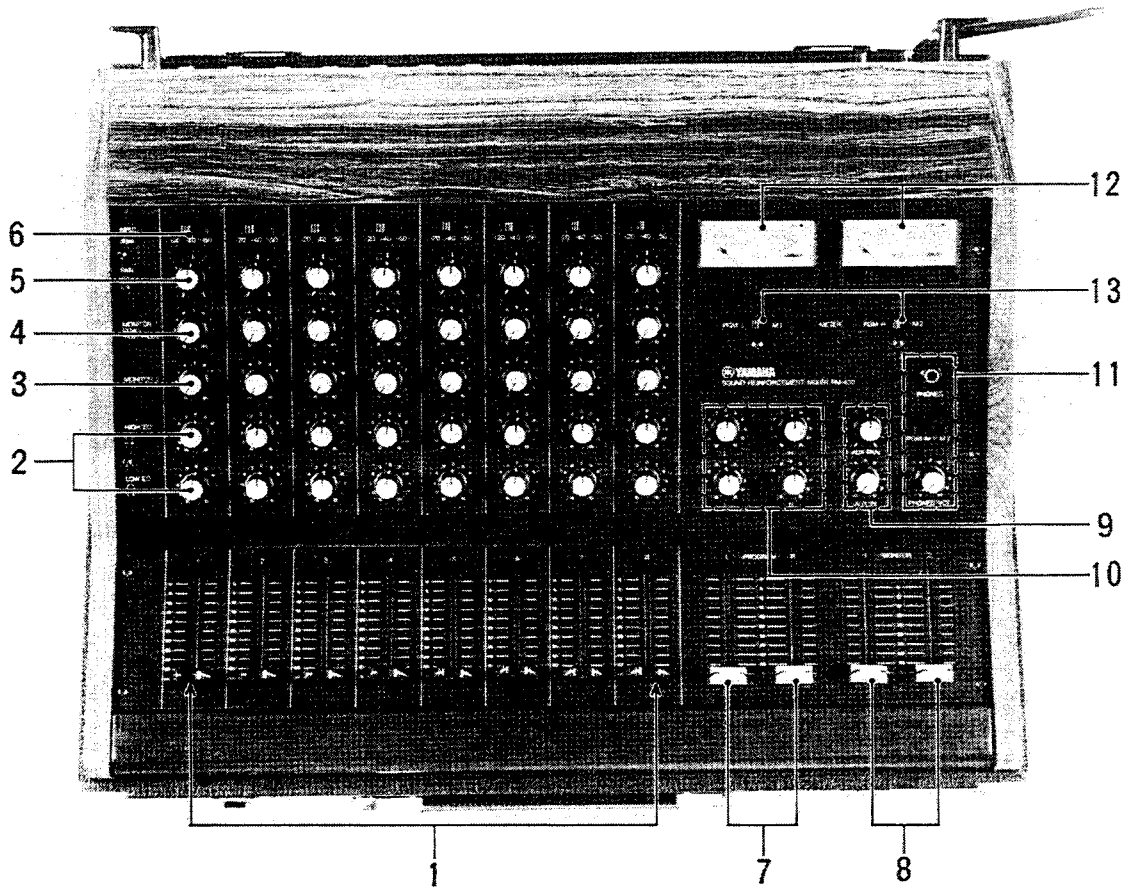
	IMPEDANCE		*SENSITIVITY	INPUT LEVEL		
Connection	Actual	Nominal Source	(At Max. Gain)	Nominal	Max. before Clip	Connector In Console
Inputs (1~8) - 50	850Ω	150~ 600Ω	−66 dBm (0.4mV)	−50 dBm (2.5mV)	−20 dBm (78mV)	XLR-3-31
- 40	2.5KΩ	Mics & Lines	−56 dBm (1.2mV)	−40 dBm (7.8mV)	−10 dBm (250mV)	
- 20	5KΩ		−36 dBm (12mV)	−20 dBm (78mV)	+10 dBm (2.5V)	
Inputs (7, 8) - 50	10KΩ	600Ω Lines	−38 dBm (9.8mV)	−26 dBm (39mV)	+4 dBm (1.23V)	2P Phone Jack
- 40	10KΩ	& Instruments	−28 dBm (31mV)	−16 dBm (123mV)	+14 dBm (3.88V)	
- 20	10KΩ		−8 dBm (310mV)	+4 dBm (1.23V)	+34 dBm (38.8V)	
Aux In	30KΩ	5KΩ Lines & Instruments	−32 dBm (19mV)	−20 dBm (78mV)		2P Phone Jack
Sub In	60KΩ	5KΩ Lines & Instruments	−2 dBm (620mV)	+4 dBm (1.23V)	+47 dBm (173V)	2P Phone Jack
From Echo	50KΩ	5KΩ Lines & Instruments	−36 dBm (12mV)	−30 dBm (25mV)	−10 dBm (250mV)	2P Phone Jack

OUTPUT LEVEL · IMPEDANCE

	IMPEDANCE		POWER OUTPUT LEVEL		
Connection	Actual	Nominal Load	Nominal	Max. before Clipping	Connector In Console
PGM A (L, R) +4 dBm	120Ω	600Ω	+4 dBm (1.23V)	+24 dBm (12.3V)	XLR-3-31
−50 dBm	80Ω	600Ω	−50 dBm (2.5mV)	−30 dBm (25mV)	
PGM B (L, R)	5Ω	600Ω	+4 dBm (1.23V)	+24 dBm (12.3V)	2P Phone Jack
MON 1, 2	5Ω	600Ω	+4 dBm (1.23V)	+24 dBm (12.3V)	2P Phone Jack
To Echo	100Ω	10KΩ	−20 dBm (78mV)	+0 dBm (775mV)	2P Phone Jack
Aux Out (L, R)	5Ω	600Ω	+4 dBm (1.23V)	+24 dBm (12.3V)	2P Phone Jack
Headphones	4.7Ω	8Ω or greater	−10 dBm (250mV)	+4 dBm (1.23V)	Stereo Phone Jack

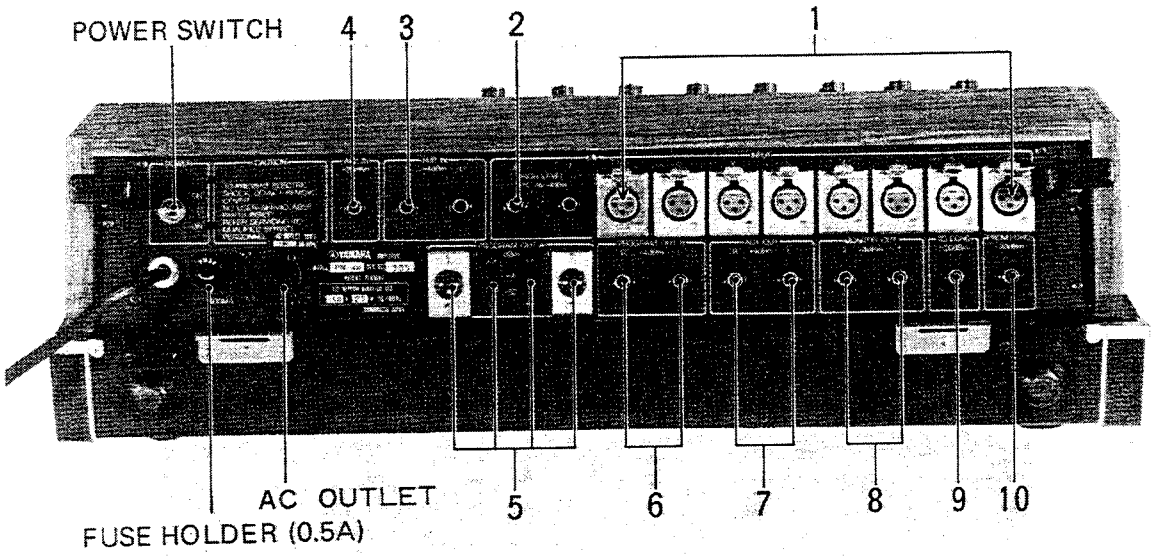
* This is the level required to produce on output of +4 dBm (1.23V).

2. CONTROL PANEL OPERATIONS



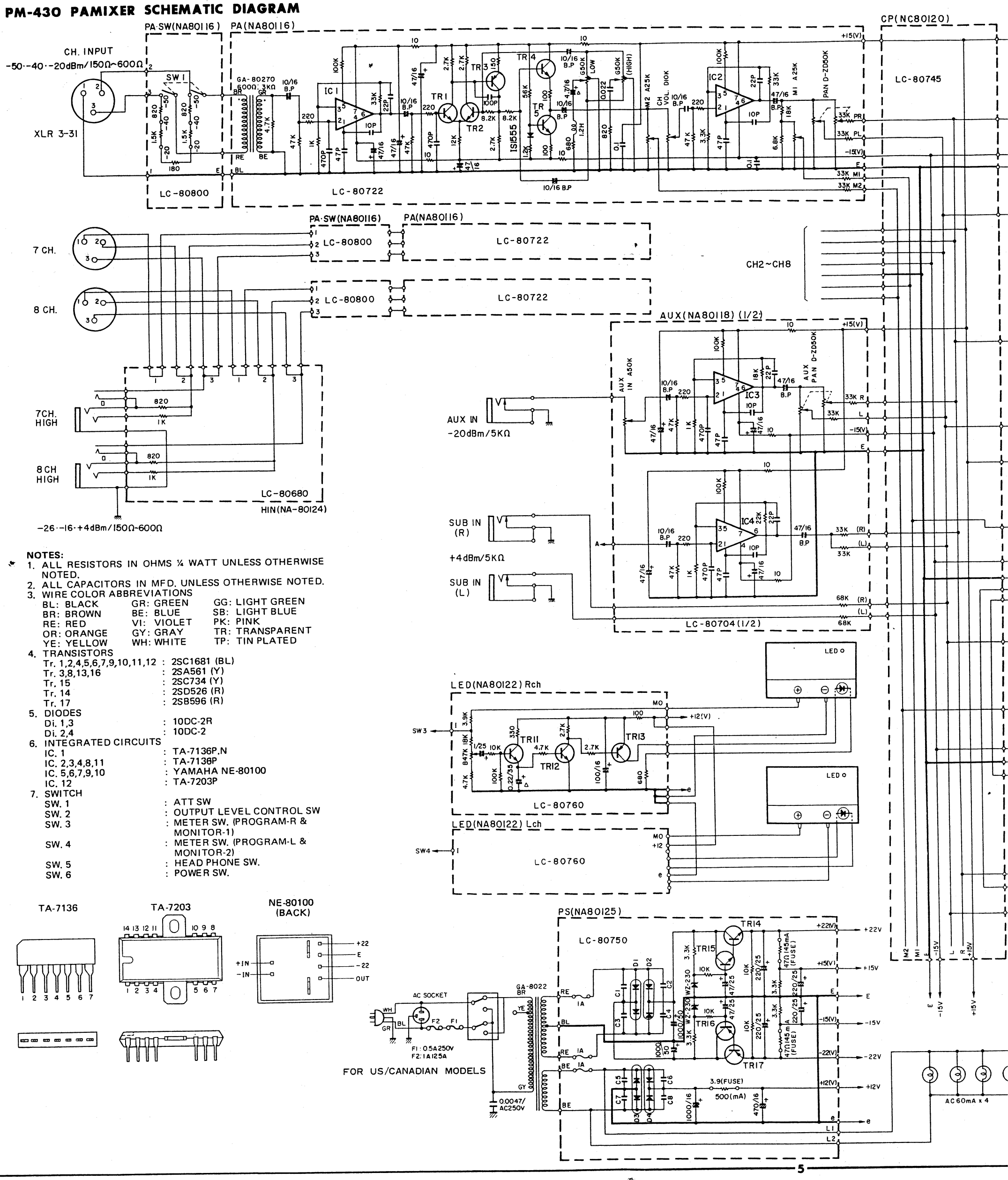
1. **CHANNEL FADER:** Volume control for each channel. (Ch. 1 - 8)
2. **LOW EQ AND HIGH EQ:** Tone control for the high and low ranges in each channel (Ch. 1 - 8)
3. **MONITOR 2:** Obtains signals from the stage previous to the Channel Fader and controls signals sent to MONITOR OUT 2.
4. **MONITOR 1:** Obtains signals from the stage following the Channel Fader and controls the signals sent to MONITOR OUT 1.
5. **PAN:** Separates the input signals to Left and Right Channel signals.
6. **INPUT:** Input level changeover switch.
7. **PROGRAM FADER:** This is the master program control.
8. **MONITOR FADER:** This is the master monitor control.
9. **AUX IN, AUX PAN:** Level control for AUX IN signals. Separates AUX IN signals to Right and Left Channels.
10. **MASTER LOW EQ AND HIGH EQ:** Overall tone control for the high and low ranges.
11. **HEADPHONE:** Monitor headphone terminals. MONITOR 1 or 2 program signals may be monitored by means of a changeover switch. PHONES VOL is to adjust the headphone volume.
12. **VU METER:** Indicates the output level of Program Out (L and R channels) or Monitors (1 and 2). (Will light when peak indication is +14dBm for Program Out)
13. **VU METER SELECT SWITCH:**

3. REAR PANEL OPERATIONS



1. **INPUT:** Input terminal for microphone or line.
2. **HIGH LEVEL INPUT:** Input terminal for tape deck or high impedance microphone.
3. **SUB IN:** Submixer input terminal for additional channels.
4. **AUX IN:** Terminal to connect tape deck, echo machine, etc, for checking sound.
5. **PROGRAM OUT A and LEVEL CHANGEOVER SWITCH:** Front main speaker output signal terminal (Balanced Type)
6. **PROGRAM OUT B:** Output terminal (Unbalanced Type)
7. **AUX OUT:** Output terminal for use in recording or submixing.
8. **MONITOR OUT 1, 2:** Output terminal for stage foldback.
9. **TO ECHO:** Output terminal for echo unit.
10. **FROM ECHO:** Input terminal from the echo unit.

PM-430 PAMIXER SCHEMATIC DIAGRAM



NOTES:

1. ALL RESISTORS IN OHMS ¼ WATT UNLESS OTHERWISE NOTED.
2. ALL CAPACITORS IN MFD. UNLESS OTHERWISE NOTED.
3. WIRE COLOR ABBREVIATIONS

BL: BLACK	GR: GREEN	GG: LIGHT GREEN
BR: BROWN	BE: BLUE	SB: LIGHT BLUE
RE: RED	VI: VIOLET	PK: PINK
OR: ORANGE	GY: GRAY	TR: TRANSPARENT
YE: YELLOW	WH: WHITE	TP: TIN PLATED

4. TRANSISTORS

Tr. 1,2,4,5,6,7,9,10,11,12	: 2SC1681 (BL)
Tr. 3,8,13,16	: 2SA561 (Y)
Tr. 15	: 2SC734 (Y)
Tr. 14	: 2SD526 (R)
Tr. 17	: 2SB596 (R)

5. DIODES

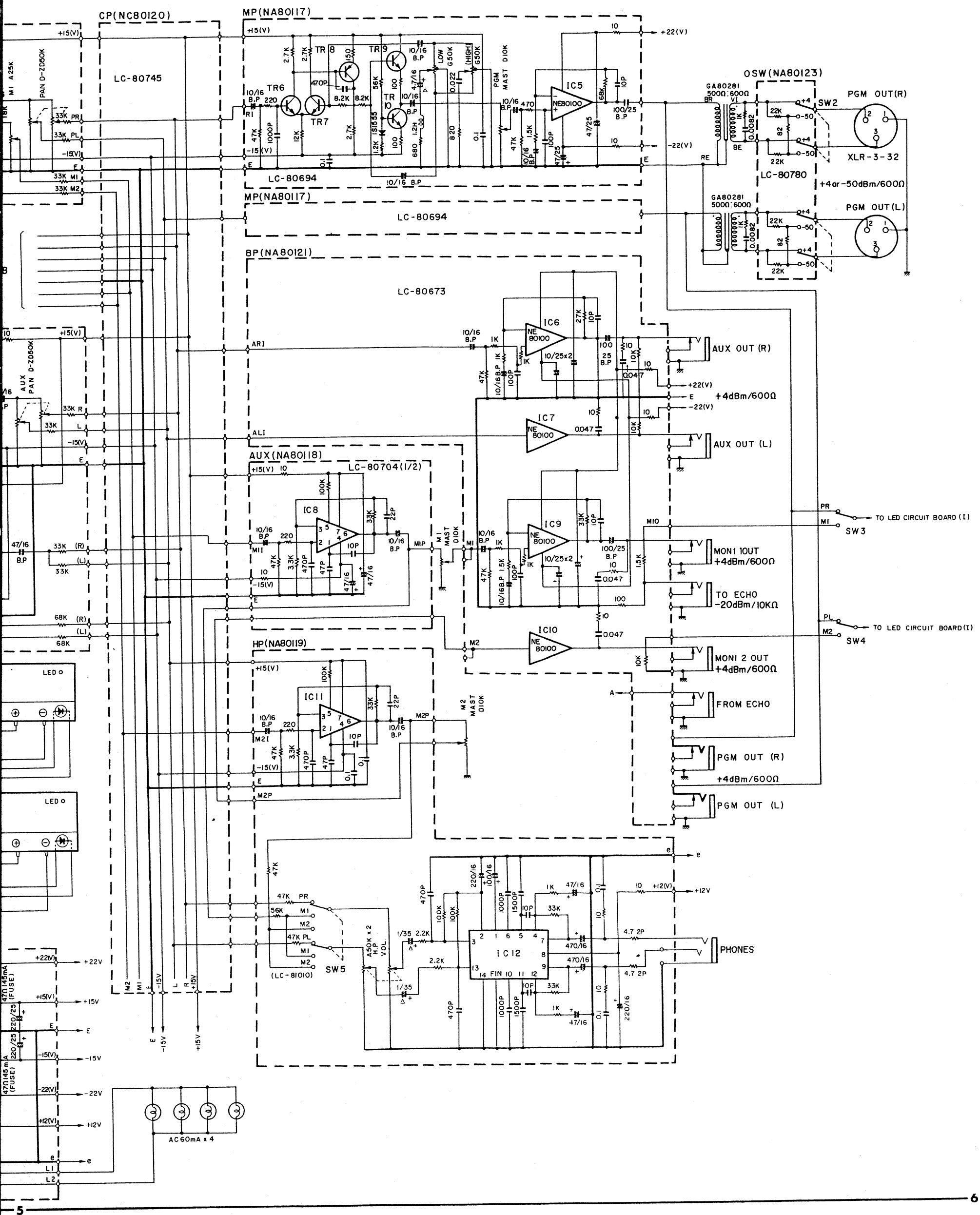
Di. 1,3	: 10DC-2R
Di. 2,4	: 10DC-2

6. INTEGRATED CIRCUITS

IC. 1	: TA-7136P,N
IC. 2,3,4,8,11	: TA-7136P
IC. 5,6,7,9,10	: YAMAHA NE-80100
IC. 12	: TA-7203P

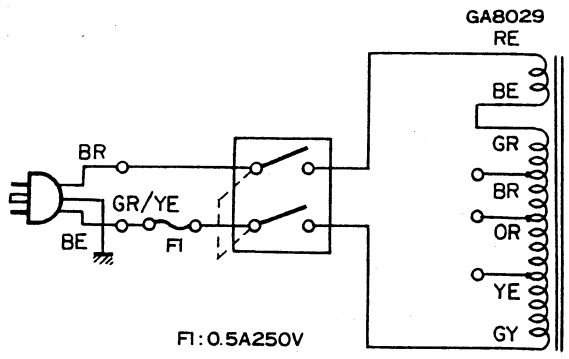
7. SWITCH

SW. 1	: ATT SW
SW. 2	: OUTPUT LEVEL CONTROL SW
SW. 3	: METER SW. (PROGRAM-R & MONITOR-1)
SW. 4	: METER SW. (PROGRAM-L & MONITOR-2)
SW. 5	: HEAD PHONE SW.
SW. 6	: POWER SW.

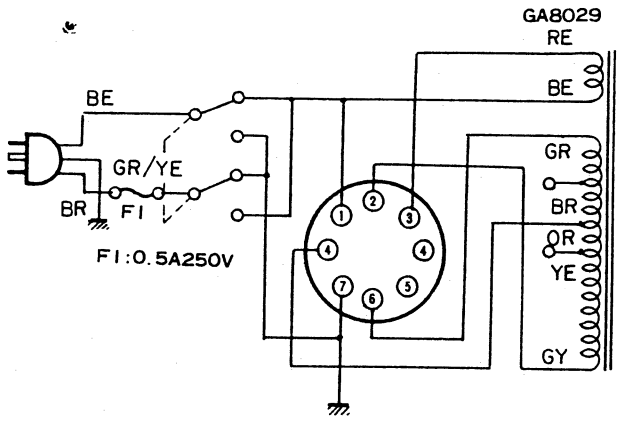

CP(NC80120)
LC-80745
MP(NA80117)
LC-80694
MP(NA80117)
LC-80694
BP(NA80121)
LC-80673
AUX(NA80118)
LC-80704(1/2)
HP(NA80119)
OSW(NA80123)
LC-80780
IC5
NEB0100
IC6
NE 80100
IC7
NE 80100
IC8
IC9
NE 80100
ICIO
NE 80100
IC11
IC12
TR6
TR7
TR8
TR9
TR 10
+15(V)
-15(V)
-22(V)
+22(V)
+12(V)
+4or-50dBm/600Ω
PGM OUT(R)
PGM OUT(L)
XLR-3-32
SW2
AUX OUT (R)
AUX OUT (L)
+4dBm/600Ω
MONI 10UT
+4dBm/600Ω
TO ECHO
-20dBm/10KΩ
MONI 2 OUT
+4dBm/600Ω
FROM ECHO
PGM OUT (R)
+4dBm/600Ω
PGM OUT (L)
TO LED CIRCUIT BOARD (I)
SW3
TO LED CIRCUIT BOARD(I)
SW4
PHONES
SW5
(LC-81010)
AC 60mA x 4
LED
470/145mA (FUSE)
PAN D-ZD50K
AUX PAN D-ZD50K
GA80281 500Ω:600Ω
LOW G50K
(HIGH) G50K
PGM MAST D10K
M1 MAST D10K
M2 MAST D10K
A50K x 2 H.P VOL

POWER CIRUIT ARRANGEMENTS

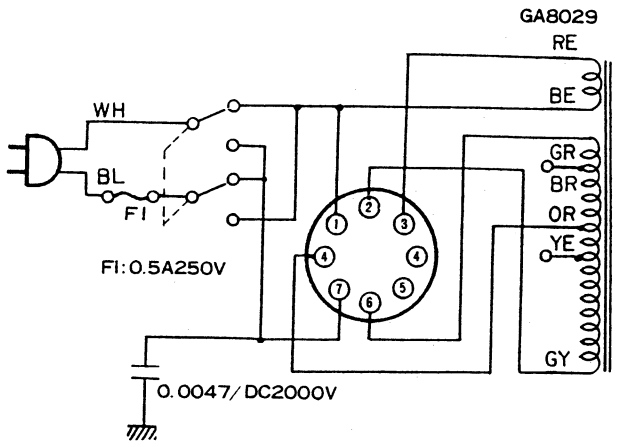
FOR AUSTRALIAN MODEL



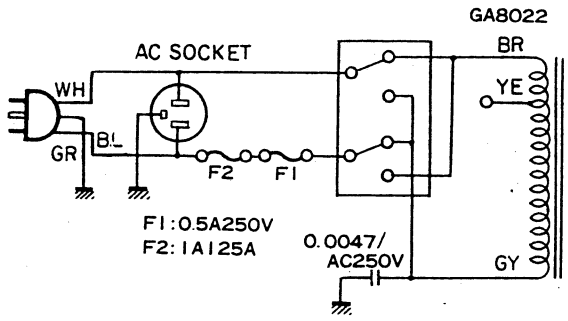
FOR SOUTH AFRICAN MODEL



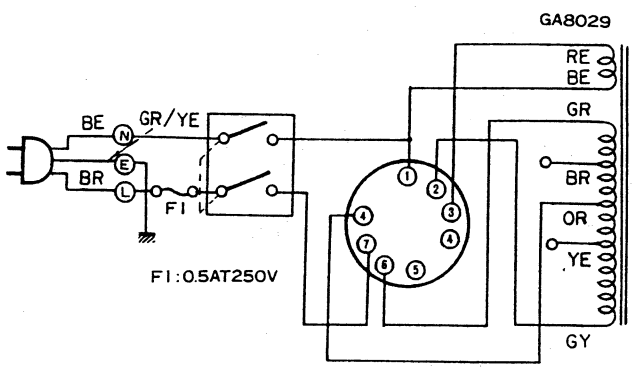
FOR GENERAL MODEL



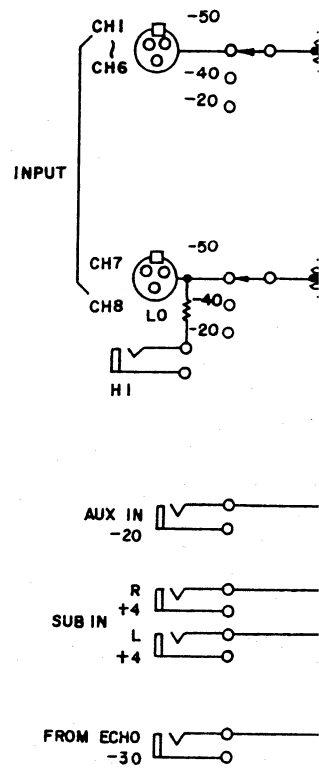
FOR US./CANADIAN MODELS



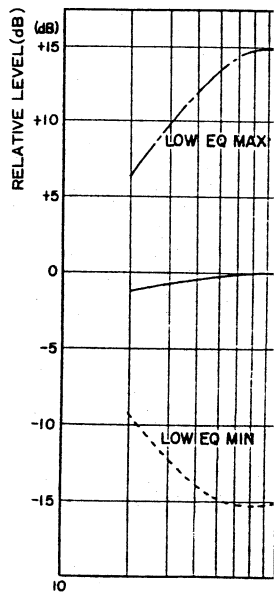
FOR BS/EUROPEAN MODELS



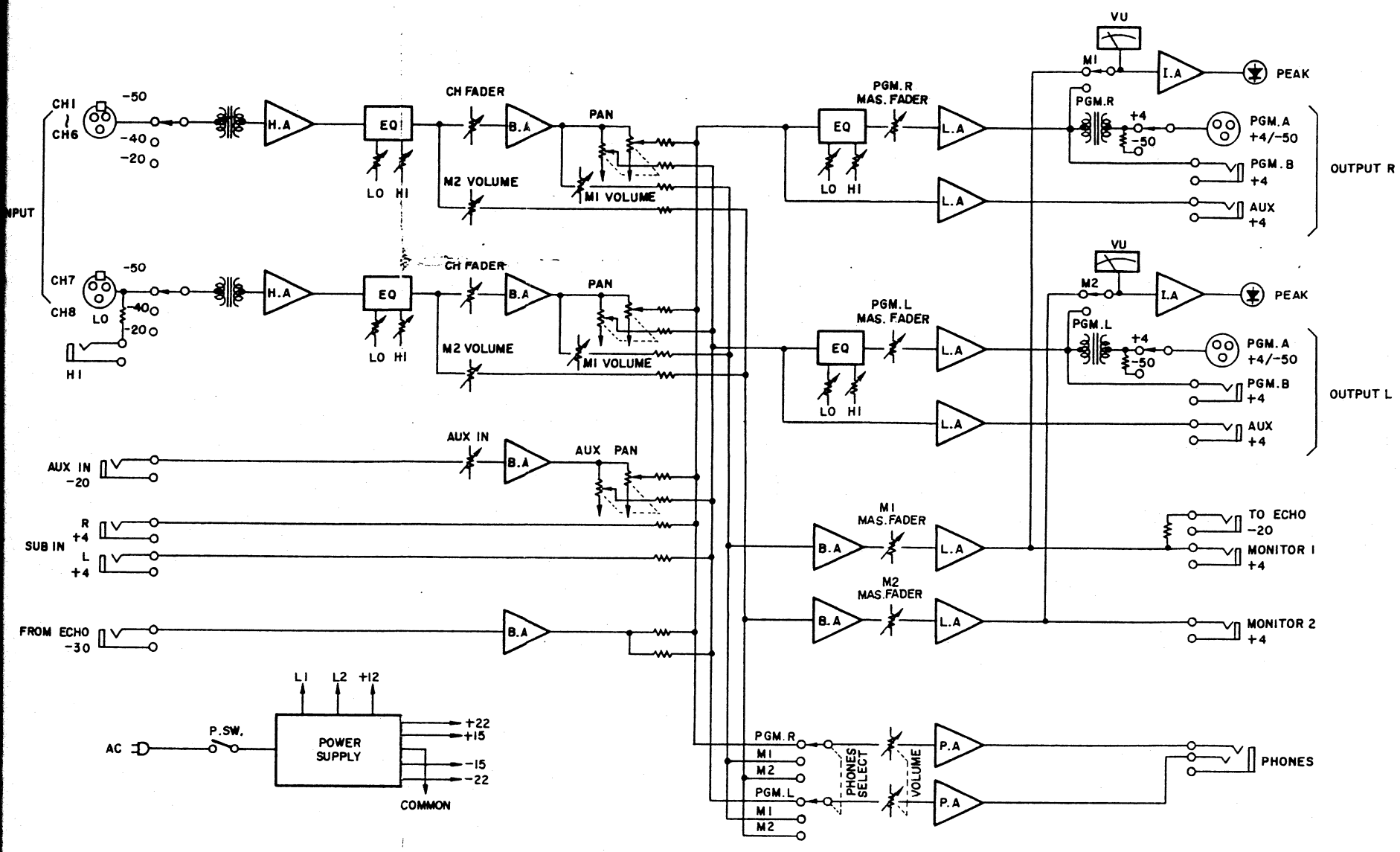
BLOCK DIAGRAM &



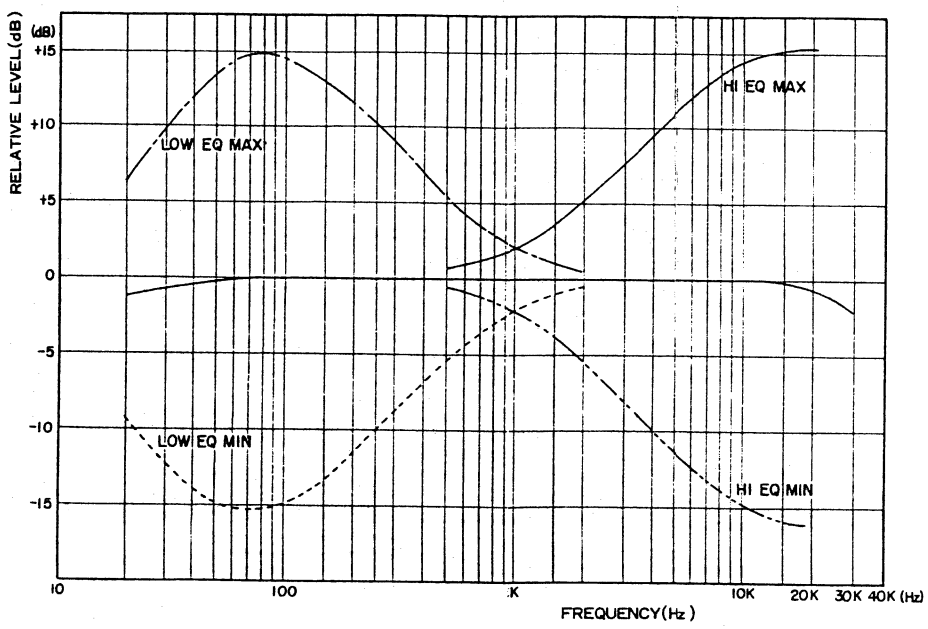
TYPICAL



BLOCK DIAGRAM & LEVEL DIAGRAM



TYPICAL FREQUENCY RESPONSE



TOTAL HARMONIC DISTORTION

PM-430 CHECK AND ADJUSTMENT & SPECIFICATIONS

1. AMPLIFICATION CHARACTERISTICS

1.-1) Gain

Gain is satisfacotry if the outputs of the respective terminals are as shown in Table 2 when a −50 dBm / 1 kHz signal is fed to the input with the various controls set as in Table 1.

Connect a 600 ohm load resistor to the respective output terminals PGM, AUX and MONITOR (For each channel)

(Table – 1)

Control Knobs	Control Position
CHANNEL FADER	Ch. 1 - 8 Maximum
HIGH- LOW EQ.	Ch. 1 - 8 Center
MONITOR 1 & 2	Ch. 1 - 8 Minimum (Maximum at time of measurement only)
INPUT ATT.	Ch. 1 - 8 −50 dBm
PAN.	Ch. 1 - 8 Center
MASTER FADER	L & R Channel Maximum
MONITOR MASTER FADER	Ch. 1 & 2 Minimum (Maximum at time of measurement only)
MASTER HIGH-LOW EQ.	L & R Channel Center
AUX VOLUME	Minimum
AUX PAN.	Center
OUT SWITCH	+ 4 dBm
PHONES VOLUME	Minimum
PHONES SELECT	PGM

(Table – 2)

INPUT ATT	PGM OUT	AUX OUT	MON 1 OUT	MON 2 OUT
−50	dBm 16± 2	dBm 12± 2	dBm 22± 2	dBm 16± 2
−40	dBm 6± 2	dBm 2± 2	dBm 12± 2	dBm 6 ±2
−20	dBm −14 ±2	dBm −18± 2	dBm −8± 2	dBm −14± 2
ch 7 & 8 HIGH–50	dBm −12± 2	dBm −16± 2	dBm −6± 2	dBm −12 ±2

Note: L & R channels of PGM-AUX to be of equal value. However, level difference between L & R to be within 2 dB.

1.-2) AUX IN

With conditions as in 1.-1, +16 dBm ± 2 dBm to be obtained from PGM OUT with a −20 dBm / 1 KHz signal applied to AUX IN (For both L & R) AUX VOLUME to be maximum.

1.-3) SUB IN

With conditions as in 1.-1, +10 dBm ± 2 dBm output to be obtained from terminal PGM with a +4 dBm / 1 KHz signal applied to SUB IN. (Both L & R)

1.-4) Distortion

With conditions as in 1.-1, distortion must be within 0.3% with an output of +4 dBm. (For each channel)

1.-5) Frequency Characteristics

With conditions as in 1.-1, and with 1 KHz as the standard, it must be +1, −3 dB at 50 Hz and within +1, −3 dB at 15 KHz. (For each channel)

1-6) Tone Control Characteristics

With conditions as in 1.-1, readings should be within the ranges shown in Table 3 when the Equalizer (EQ) Control knob is varied. (For each channel)

However, these readings are those when MASTER EQ and CHANNEL EQ are operated separately.

(Table – 3)

EQ		100Hz	1 KHz	10 KHz
HIGH LOW	Center	dB 0	dB 0	dB 0
HIGH LOW	Maximum	dB 14 ±3	dB 1 ±3	dB 14 ±3
HIGH LOW	Minimum	dB −14± 3	dB −1± 3	dB −14± 3

Note: All standard values shall be 1 KHz at flat response (center). Constant input but at a signal level where the output is not clipped. Standard characteristics are shown under TYPICAL FREQUENCY RESPONSE on the back of the overall circuit diagram.

1.-7) Maximum Output

With conditions as in 1.-1, the output levels of both PGM OUT and MONI OUT must be over +24 dBm at the point where the output wave form is clipped (3% distortion) when the 1 KHz signal is increased. (For L, R and 1, 2)

Note: To be over +22 dBm for AUX OUT.

1.-8) VU Meter

When PGM Out is set for +4 dBm with conditions as in 1.-1, the VU meter indications must be within the range of 0 ± 1 VU. (For both L & R) Further, MONITOR OUT to be the same when Meter SW is switched to M1 or M2.

1.9) ECHO (FROM ECHO, TO ECHO)

(a) With conditions as in 1.-1, an output of +10 ±3 dBm to be obtained from PGM OUT when a −30 dBm / 1 KHz signal is applied to FROM ECHO.

(b) With both CHANNEL and MASTER VOLUME CONTROLS of MONITOR 1 set to maximum and, with MONITOR 1 OUT set for an output of +4 dBm, a signal of −20 dBm ±1 dBm to be obtained from TO ECHO.

1.-10) PGM OUT B

With conditions as in 1.-1, an output of +4 dBm ±1 dBm to be obtained from PGM OUT B when PGM OUT A is set for an output of +4 dBm. (Both L & R)

1.-11) Output Changeover Switch

With each output changeover switch set to +4 and, with PGM OUT set for +4 dBm, the output level must be within the range of −50 dBm ± 3 dBm when the switch is set to −50.

1.-12) HEADPHONE

With conditions as in 1.-1, connect an 8 ohm load resistor across the HEADPHONE terminals and set headphone volume to maximum. An output of +2 ±3 dBm to be obtained across the load resistor when a −50 dBm / 1 KHz signal is applied to the input. (Both L & R) Also an output of +1±3 dBm to be obtained across the load resistor when the changeover switch is set to MON 1 or MON 2 and the CHANNEL and MASTER MONITOR volume controls are set to maximum. However, the input signal to be set to −56 dBm / 1 KHz when measuring MON 1.

1.-13) Separation

(a) PGM OUT

With conditions as in 1.-1, set CHANNEL FADER to maximum Inly on the channel to be measured and set all others to minimum. The signal level on the R side of PGM OUT to be under -45dBm with the L side of PAN VOL set for an output level of +4dBm. The same value must also be obtained when PAN VOL is set to R. (at 1KHz)

(b) MONITOR OUT

With conditions as in 1.-1, and with CHANNEL MONITOR 1 VOL and MASTER MONITOR 1 FADER set to maximum and MONITOR 1 OUT set for +4dBm, the signal level at MONITOR 2 OUT to be under -35dBm when the FADER of MASTER MONITOR 2 is set to maximum. The same readings must also be obtained when CHANNEL MONITOR 2 VOL and MASTER MONITOR 2 FADER are set to maximum.

1.-14) Noise Level

With conditions as in 1.-1, the noise levels of both PGM and AUX MONITOR outputs to be under -35dBm when 1 and 2 Vol. of CHANNEL MONITOR 1 and the MASTER MONITOR FADER are set to maximum. Noise level to be under -40dBm when only the CHANNEL FADER in the channel being measured is set to maximum and all others are set to minimum.

1.-15) Residual Noise Level

Noise levels of both PGM OUT and MONI OUT to be under -70dBm when MASTER PGM FADER and MASTER MONITOR FADER are set to minimum. Also, the noise level at PGM OUT to be under -55dBm when MASTER OUT FADER and MASTER MONI FADER are set to maximum and CHANNEL FADER and CHANNEL NOMI VOL is set to minimum. MONI OUT to be under -40dBm at this time.

1.-16) LED Lightng Level

With conditions as in 1.-1, the LED in the meter should light when the signal level of PGM OUT is within the range of +14 ±1dBm. (Both L & R) Change over meter SW and adjust semi-fixed volume control B47K ohm until the same results are obtained with MON 1 and 2.

2.) **Stability**

2.-1) Operation to be stable when power supply voltage is varied ±10% of the rated value.

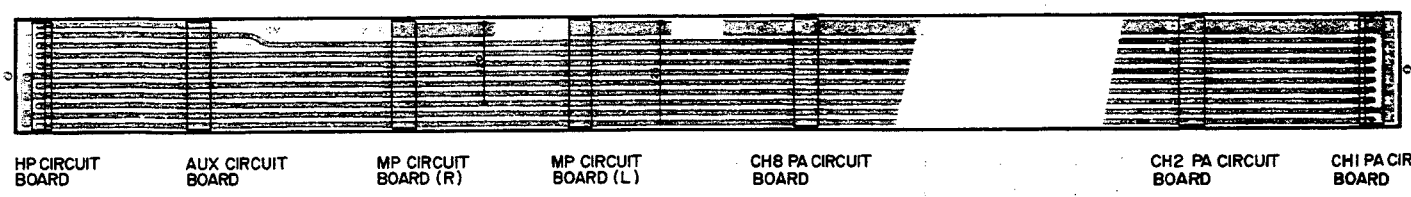
2.-2) Operation to be stable with ambient temperatures of between 0-50°C.

3.) **Measuring Instrument**

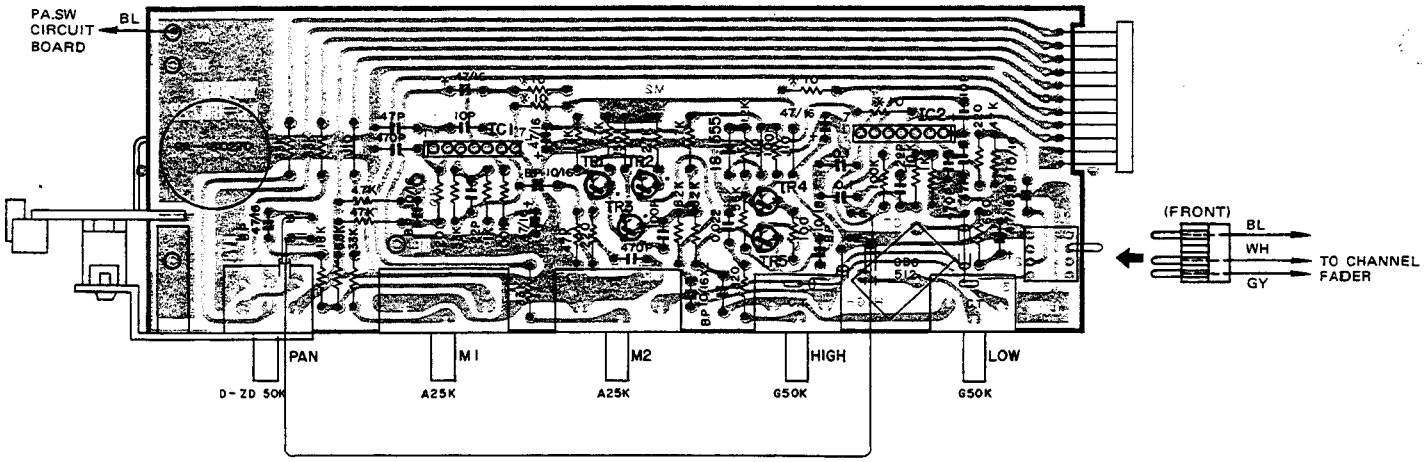
3.-1) An oscillator with an output impedance of under 600 ohms and distortion under 0.05% is desirable.

3.-2) Input impedanced of over 100K ohms are desirable for oscilloscope voltmeters etc.

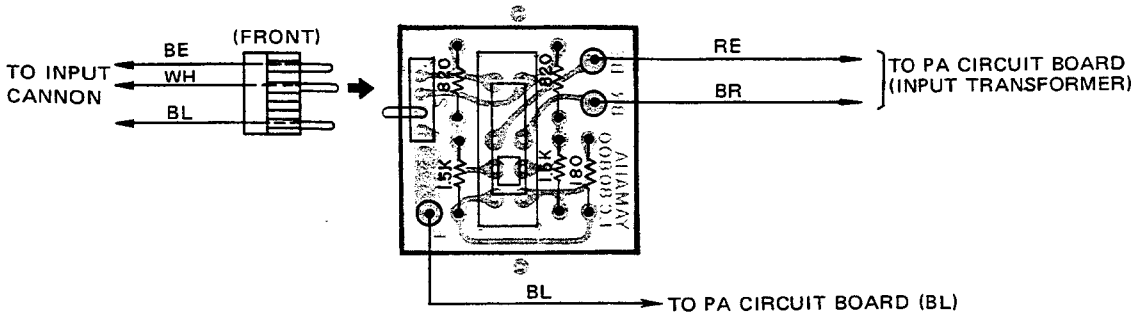
1. CP CIRCUIT BOARD (NA80120) #80745



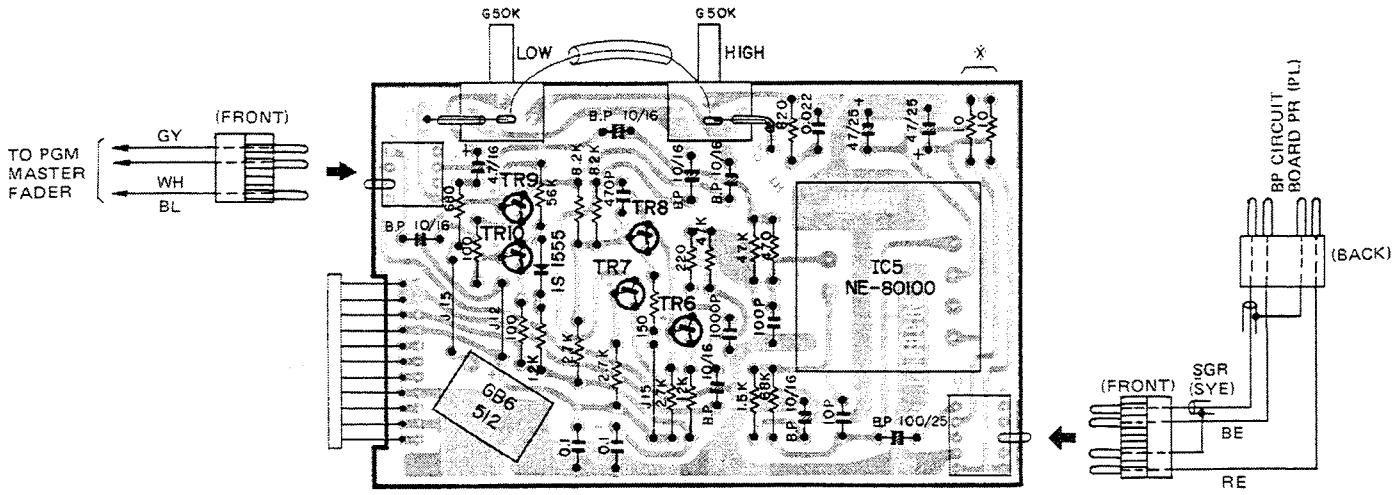
2. PA CIRCUIT BOARD (NA80116) #80722



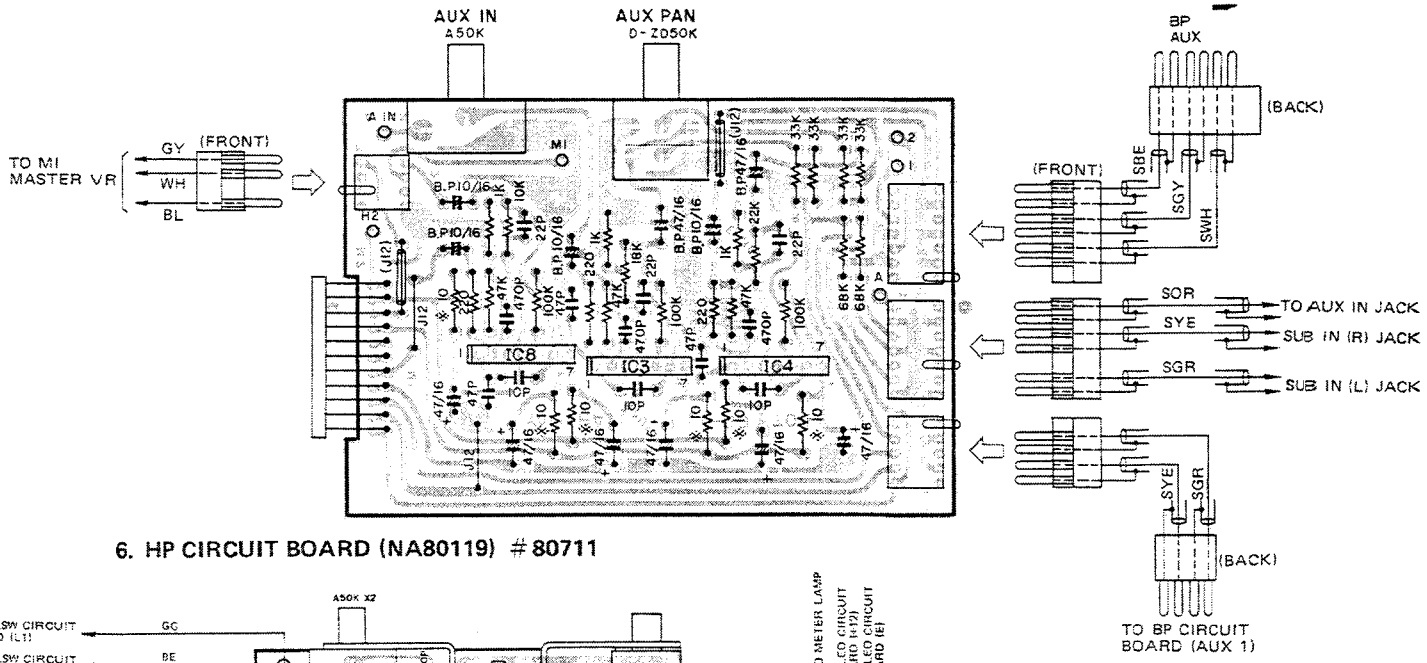
3. PA SW CIRCUIT BOARD (NA80116) #80800



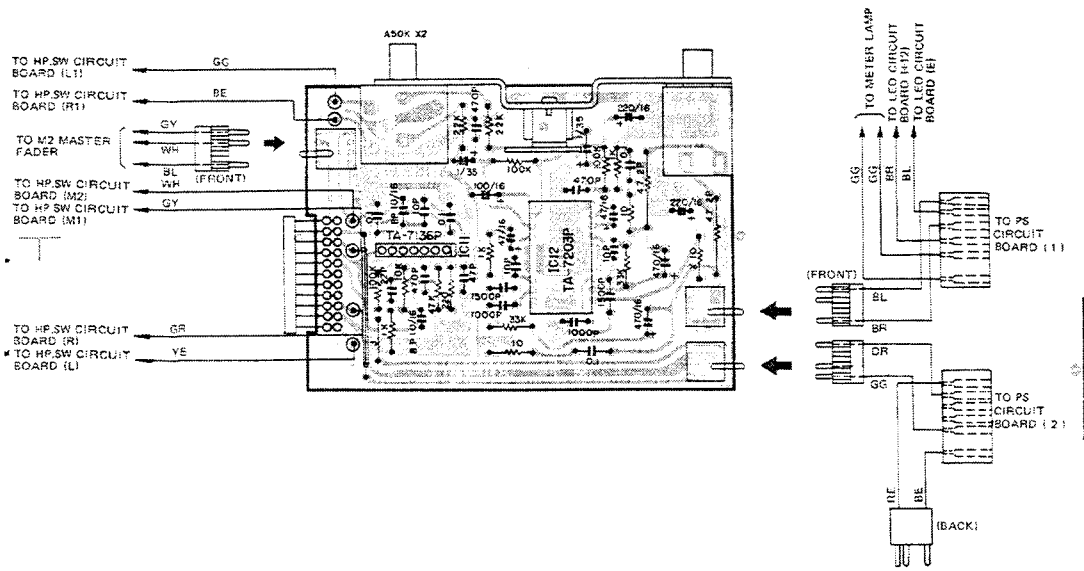
4. MP CIRCUIT BOARD (NA80117) #80694



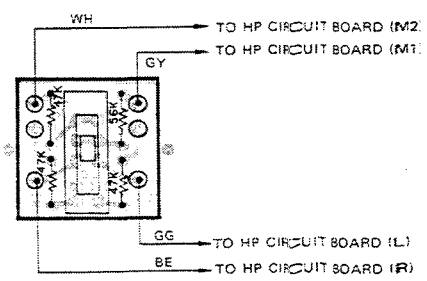
5. AUX CIRCUIT BOARD (NA80118) #80704



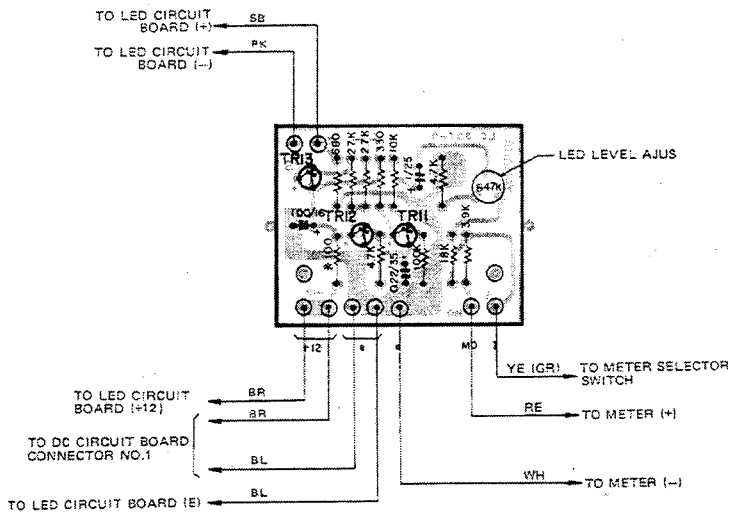
6. HP CIRCUIT BOARD (NA80119) #80711



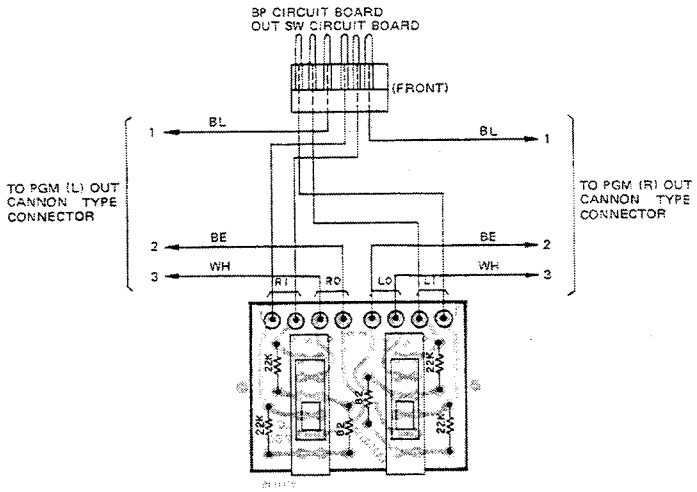
7. HP. SW CIRCUIT BOARD (NA80119) #81010



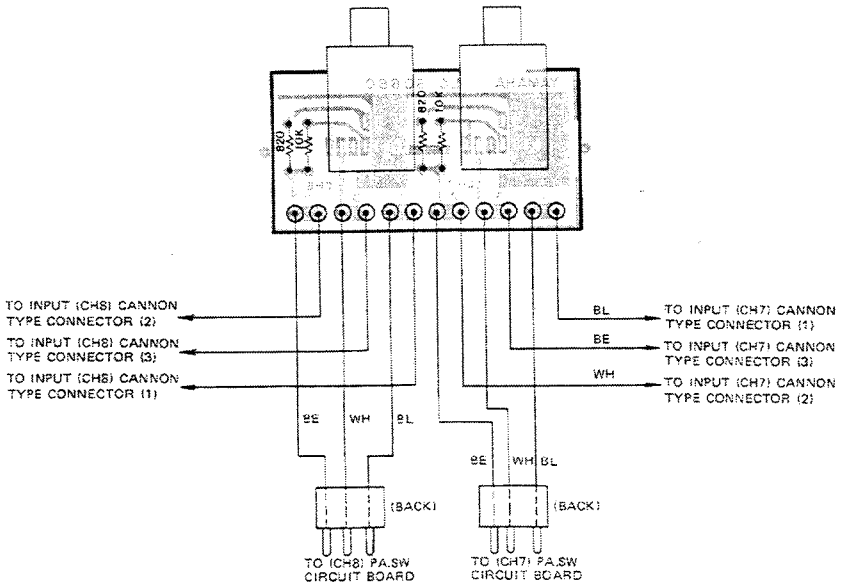
8. LED CIRCU.. BOARD (NA80122) #80760



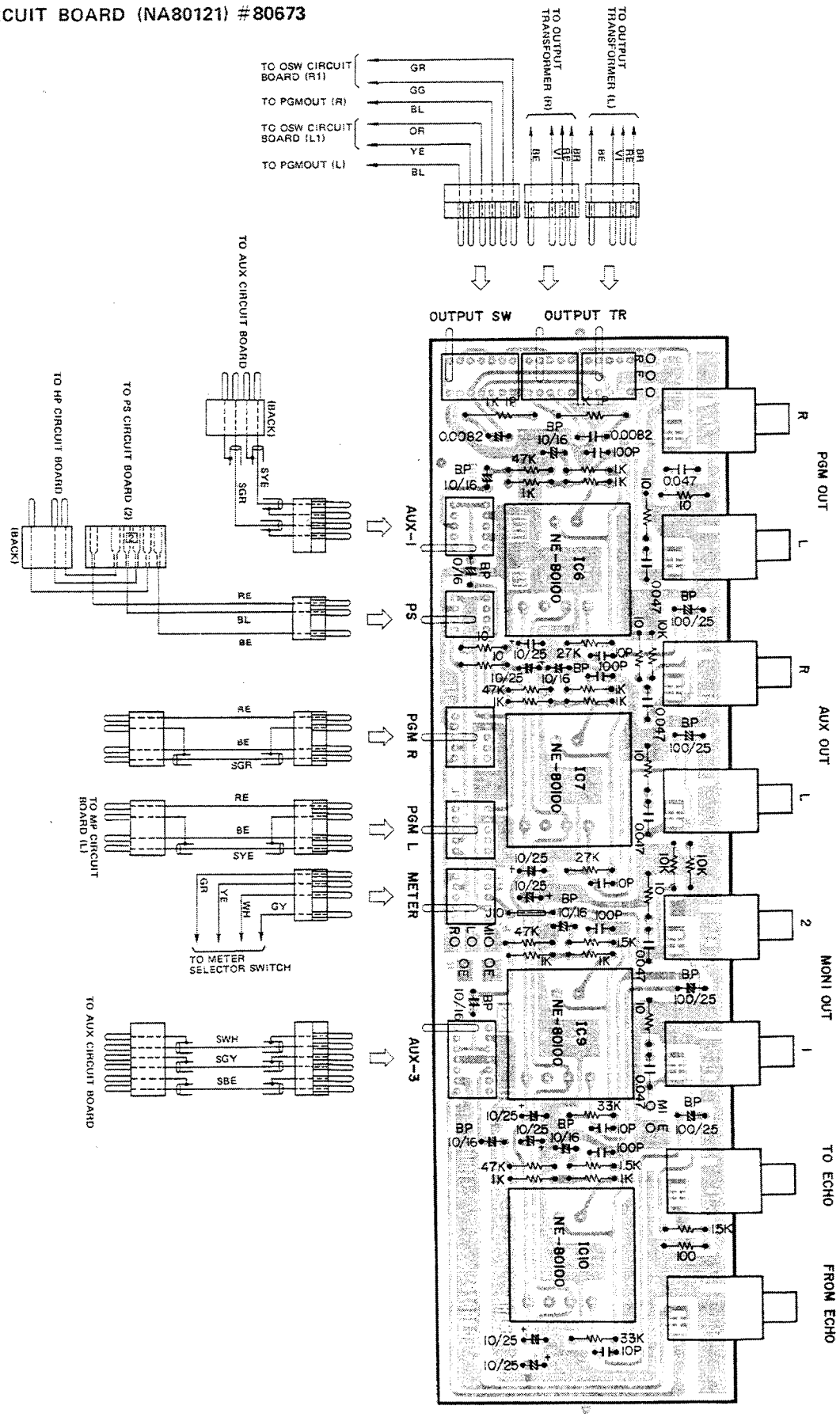
9. OSW CIRCUIT BOARD (NA80123) #80780



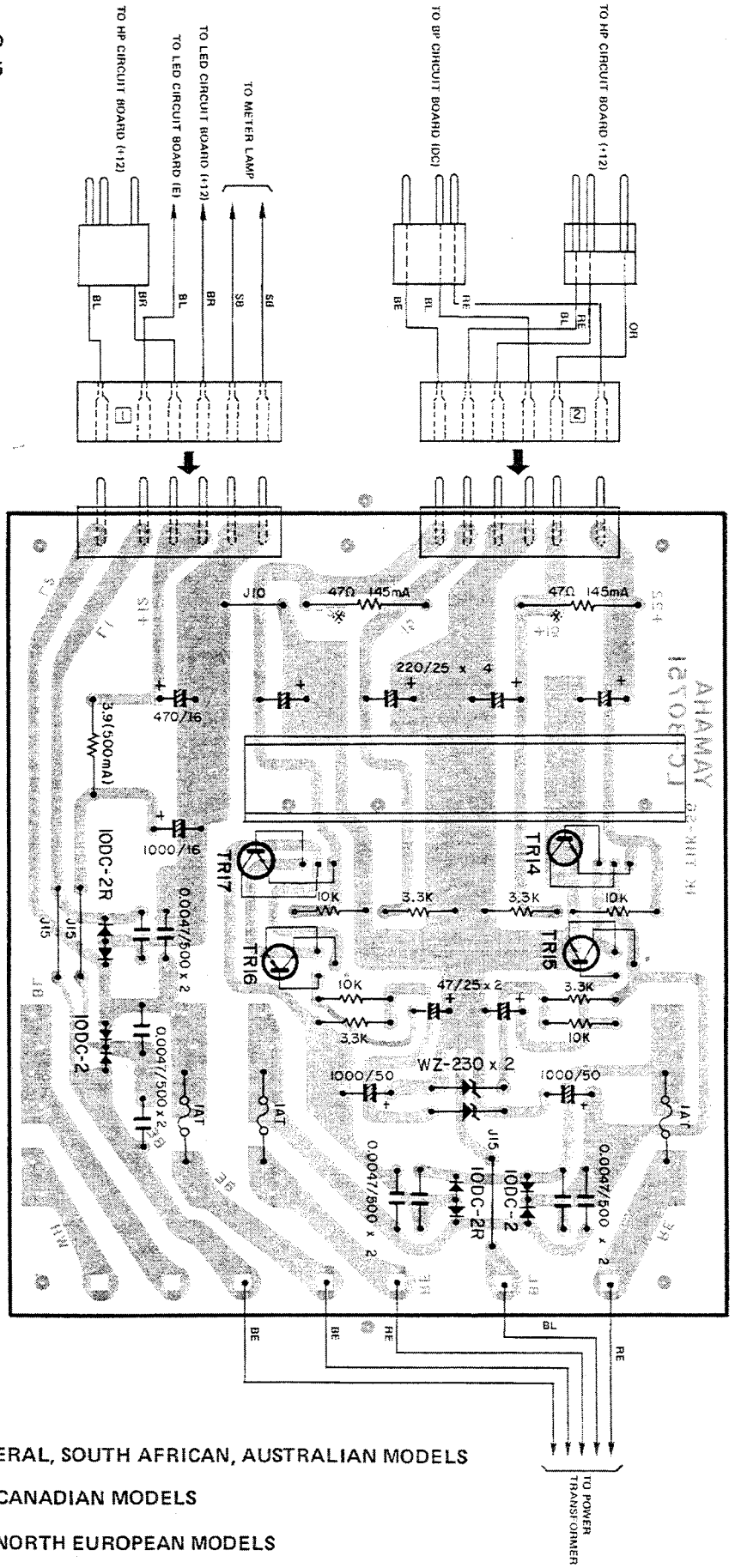
10. HIN CIRCUIT BOARD (NA80124) #80680



11. BP CIRCUIT BOARD (NA80121) #80673



12. PS CIRCUIT BOARD (NA80125) #80125



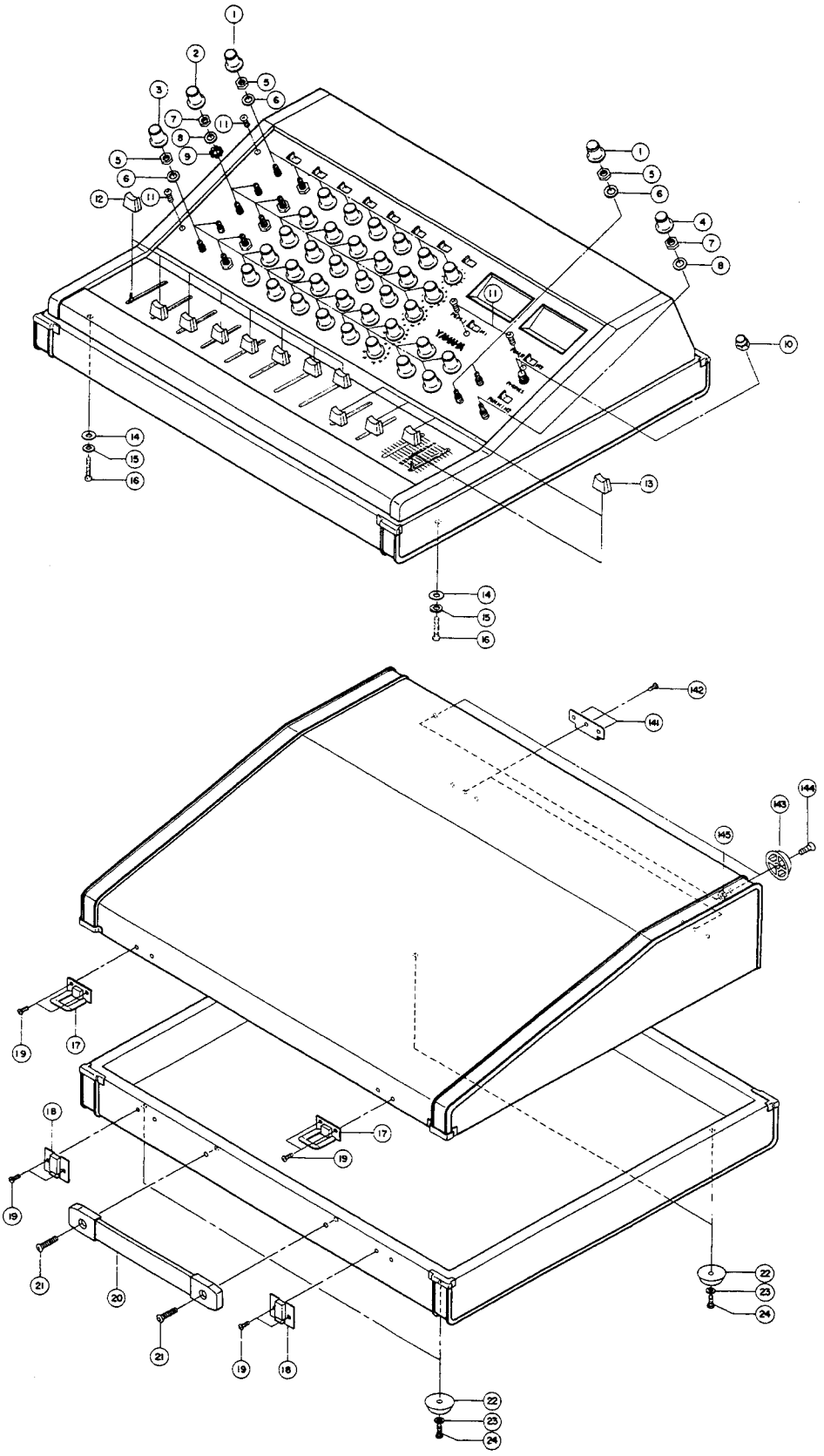
(NA80125) # 80125

(NA80125) For GENERAL, SOUTH AFRICAN, AUSTRALIAN MODELS

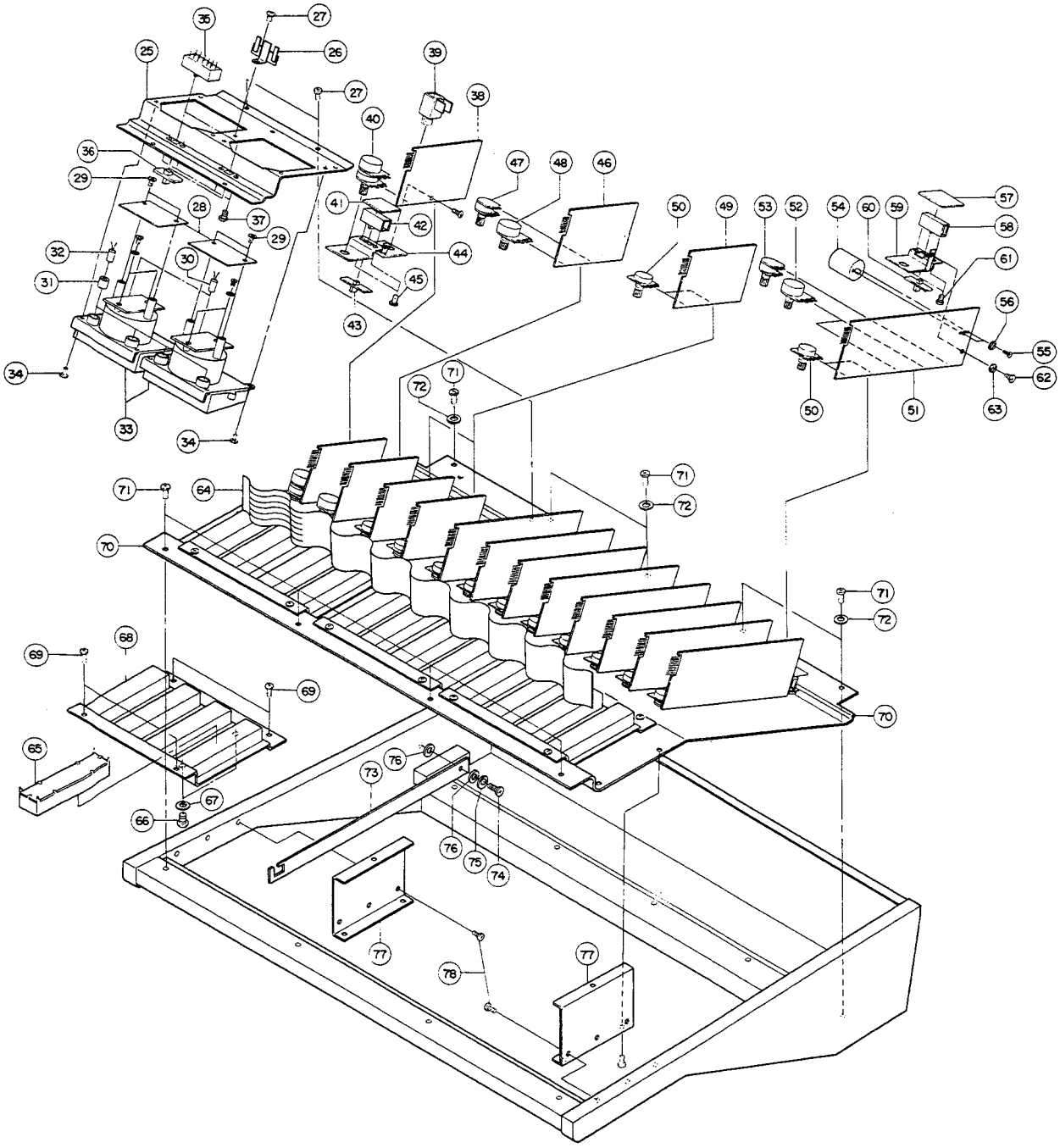
(NA80126) For U.S./CANADIAN MODELS

(NA80127) For B.S./NORTH EUROPEAN MODELS

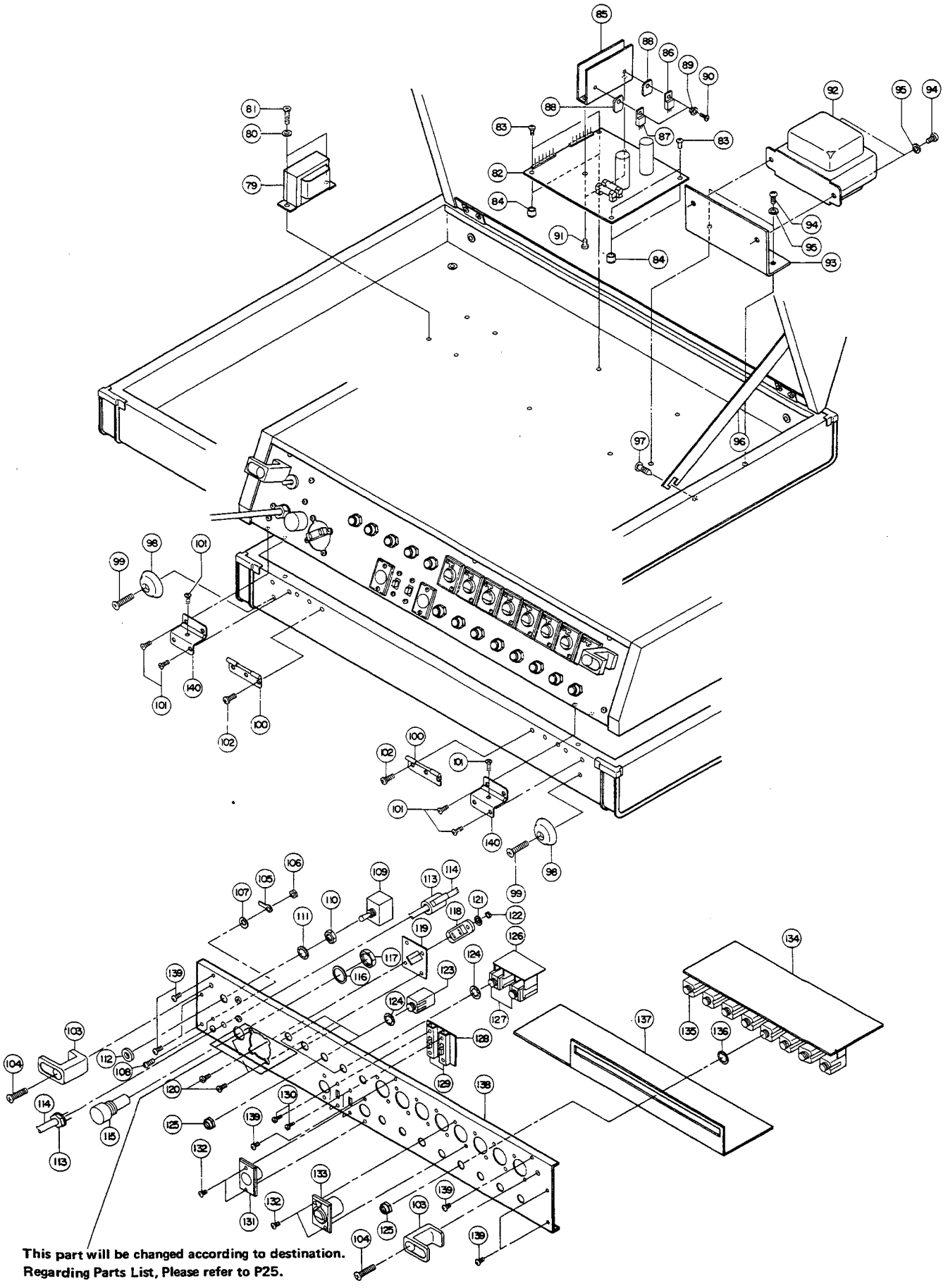
PARTS LIST



Ref. No.	Parts No.	Description		Remarks	Common Models	
1	30 54 00 CB 80 50 40	Knob (Orange)	ツマミ(オレンジ)			
2	30 54 00 CB 80 50 30	–do.– (Light Blue)	〃 (ライトブルー)			
3	30 54 00 CB 80 50 20	–do.– (Green)	〃 (グリーン)			
4	30 54 00 CB 80 50 50	–do.– (Ivory)	〃 (アイボリー)			
5		For Variable Resistor M7	特殊六角ナット M7			
6		–do.– M7	特殊平座金 M7			
7		–do.– M8	特殊六角ナット M8			
8		–do.– M8	特殊平座金 M8			
9		–do.– M8	歯付座金 M8			
10	30 56 00 CB 06 20 10	Phone Nut	ホーンナット			
11	40 10 00 EC 33 00 60	Truss Head Screw 3 x 6	トラス小ネジ 3×6	FCM-BL		
12	30 10 00 CB 02 32 30	Knob (Black)	ツマミ(ブラック)			
13	30 10 00 CB 02 32 40	–do.– (Orange)	〃 (オレンジ)			
14	30 54 00 AA 02 42 50	MA Washer	MAワッシャ			
15	40 10 00 EV 20 30 40	Plain Washer 4S	平座金 4S	ZMC2-BL		
16	40 10 00 EA 34 02 00	Pan Head Screw 4 x 20	ナベ小ネジ 4×20	–do.–		
17	30 54 00 AA 80 24 50	Lock	パッチン錠			
18	40 10 00 EC 13 08 00	Truss Head Screw 3 x 8	トラス小ネジ 3×8	FNM3-3g		
19	40 10 00 EH 13 01 60	Truss Tapping Screw 3 x 16	トラスタッピンネジ 3×16	–do.–		
20	30 54 00 NB 80 15 40	Handle A'ssy	取手 Assy			
21	40 10 00 EF 25 02 50	Oval Head Screw 5 x 25	丸皿小ネジ 5×25	FCrM3-3G		
22	30 54 00 CB 80 12 70	Leg (Black)	ゴム足 (黒)			
23	40 10 00 EV 20 30 40	Plain Washer 4S	平座金 4S	FCM-BL		
24	40 10 00 EA 34 01 60	Pan Head Screw .4 x 16	ナベ小ネジ 4×16	–do.–		
141	30 54 00 AA 80 24 60	Releaseable Hinge	引掛け蝶番			
142	40 10 00 EC 33 00 80	Truss Head Screw 3 x 8	トラス小ネジ 3×8	FNM-3g		
143	30 10 00 CB 02 32 00	Slip Fitting	スベリ座			
144	40 10 00 EB 34 02 00	Flat Head Screw 4 x 20	皿小ネジ 4×20	ECM-BL		
145	40 10 00 EV 10 30 40	Hexagonal Nut 4S	六角ナット 4S	–do.–		



Ref. No.	Parts No.	Description		Remarks	Common Models	
25	30 54 00 AA 80 23 30	Meter Slib Panel	メーターサブパネル			
26	40 10 00 LA 00 00 80	Lug Terminal 2P-1L	ラグ端子 2P 1L			
27	40 10 00 E1 13 00 60	Binding Tapping Screw 3 x 6	バインドタッピンネジ 3 × 6	ZMC2-Y		
28	30 54 00 NA 80 12 20	LED Circuit Board	L E D シート			
29	40 10 00 E1 13 00 60	Binding Tapping Screw 3 x 6	バインドタッピンネジ 3 × 6	ZMC2-Y		
30	40 10 00 MZ 80 16 50	LED A'ssy	L E D A Assy			
31	30 54 00 CB 06 86 20	Holder Lamp	ランプホルダー			
32	40 10 00 JB 00 02 30	Lamp with Lead Wire	リード付ランプ			
33	40 10 00 J1 00 03 90	VU Meter	V U メーター			
34	40 10 00 E1 03 00 80	Binding Tapping Screw 3 x 8	バインドタッピンネジ 3 × 8			
35	40 10 00 KA 40 03 70	Slide Switch	スライドスイッチ			
36	30 54 00 CB 80 52 30	Knob	ツ マ ミ			
37	40 10 00 EA 32 60 50	Pan Head Screw 2.6 x 5	ナベ小ネジ 2.6× 5	ZMC-BL		
38	30 54 00 NA 80 11 90	HP Circuit Board	H P シート			
39	40 10 00 LB 30 03 70	Phone Jack	ヘッドホーンジャック			
40	40 10 00 HS 32 03 60	Variable Resistor A50K x 2	ボリュームA50K× 2			
41	40 10 00 LC 81 01 00	Printed Circuit Board	プリント基板			
42	40 10 00 KA 40 03 60	Slide Switch	スライドスイッチ			
43	30 54 00 CB 80 52 30	Knob	ツ マ ミ			
44	30 54 00 AA 80 23 90	SW Holder Plate	S W 取付金具			
45	40 10 00 EA 32 60 50	Pan Head Screw 2.6 x 5	ナベ小ネジ 2.6× 5	ZMC-BL		
46	30 54 00 NA 80 11 80	AUX Circuit Board (	A U X シート			
47	40 10 00 HS 31 00 90	Variable Resistor	ボリューム			
48	40 10 00 HS 32 02 10	—do.— A50K	〃 A50K			
49	30 54 00 NA 80 11 70	MP Circuit Board (LC 86940	M P シート			
50	40 10 00 HS 31 01 00	Variable Resistor G50KCT	ボリューム G50KCT付			
51	30 54 00 NA 80 11 60	PA Circuit Board (LC 86772)	P A シート			
52	40 10 00 HS 32 02 60	Variable Resistor A25K	ボリューム A25K			
53	40 10 00 HS 31 00 90	—do.— D50K + ZD50K	ボリューム D50K+ZD50K			
54	40 10 00 GA 80 27 00	Input Transformer	インプットトランス			
55	40 10 00 EA 32 60 50	Pan Head Screw 2.6 x 5	ナベ小ネジ 2.6× 5	ZMC3-BL		
56	40 10 00 EV 41 00 30	Teethed Locked Washer 3S	歯付座金 3 S	ZMC2-Y		
57	40 10 00 LC 80 80 10	Printed Circuit Board	プリント基板			
58	40 10 00 KA 40 03 60	Slide Switch	スライドスイッチ			
59	30 54 00 AA 80 23 80	SW Holder Plate	S W 取付金具			
60	30 54 00 CB 80 52 30	Knob	ツ マ ミ			
61	40 10 00 EA 32 60 50	Pan Head Screw 2.6 x 5	ナベ小ネジ 2.6× 5	ZMC3-BL		
62	40 10 00 EA 03 00 60	—do.— 3 x 6	〃 3 × 6	ZMC2-Y		
63	40 10 00 EV 41 00 30	Teethed Locked Washer 3S	歯付座金 3 S	—do.—		
64	30 54 00 NA 80 12 00	CP Circuit Board	C P シート			
65	40 10 00 HQ 20 01 90	Slide Variable Resistor	スライドボリューム			
66	40 10 00 EA 33 00 60	Pan Head Screw 3 x 6	ナベ小ネジ 3 × 6	FCM-BL		
67	40 10 00 EV 41 00 30	Teethed Locked Washer 3S	歯付座金 3 S	ZMC-ZY		
68	30 54 00 AA 80 23 20	Sub Panel	サブパネル			
69	40 10 00 E1 13 00 60	Binding Tapping Screw 3 x 6	バインドタッピンネジ 3 × 6	ZMC2-Y		
70	30 54 00 AA 80 23 10	Panel	パネル			
71	40 10 00 EQ 03 10 60	Round Head Wooden Screw 3.1 x 6	丸木ネジ 3.1× 6	ZMC2-Y		
72	40 10 00 EV 41 00 30	Teethed Locked Washer 3S	歯付座金 3 S	—do.—		
73	40 10 00 AA 80 24 20	Stay	ス テ ー			



This part will be changed according to destination.
Regarding Parts List, Please refer to P25.

Ref. No.	Parts No.	Description		Remarks	Common Models	
74	40 10 00 EQ 04 11 60	Round Head Wooden Screw 4.1 x 16	丸木ネジ 4.1×16	ZMC2-Y		
75	40 10 00 EV 41 00 30	Teethed Locked Washer 4S	歯付座金 4S	–do.–		
76	40 10 00 EV 20 00 40	Plain Washer 4S	平座金 4S	–do.–		
77	30 54 00 AA 80 24 00	Fixing Metal	固定金具			
78	40 10 00 EQ 03 11 60	Round Head Wooden Screw 3.1 x 16	丸木ネジ 3.1×16	ZMC2-Y		
79	40 10 00 GA 80 28 10	Output Transformer	アウトプットトランス			
80	40 10 00 EV 43 0040	Teethed Locked Washer 4S	歯付座金 4S	ZMC2-Y		
81	40 10 00 EA 04 01 00	Pan Head Screw 4 x 10	ナベ小ネジ 4×10	–do.–		
82	30 54 00 NA 80 12 50	PS Circuit Board	PSシート			
83	40 10 00 EQ 03 11 60	Round Head Wooden Screw 3.1 x 16	丸木ネジ 3.1×16	ZMC2-Y		
84	30 56 00 CB 01 09 80	Spacer	スペーサー			
85	30 54 00 BA 80 08 10	Heat Sink	放熱板			
86	40 10 00 iD 05 26 10	Transistor 2SD526	2SD526			
87	40 10 00 iB 05 96 20	–do.– 2SB596	2SB596			
88	40 10 00 iL 00 02 70	Base AC229	マイカ・ベース AC229			
89	30 54 00 CB 07 28 80	Insulatson Bush	絶縁ブッシュ			
90	40 10 00 EA 02 60 60	Pan Head Screw 2.6 x 6	ナベ小ネジ 2.6×6	ZMC2-Y		
91	40 10 00 Ei 13 00 60	Binding Tapping Screw 3 x 6	バインドタッピングネジ 3×6	–do.–		
92	40 10 00 GA 80 22 00	Power Transformer	電源トランス	For U.S./Canadian models		
	40 10 00 GA 80 29 10	–do.–	"	For General, South African, Australian, BS/North European models		
93	30 54 00 AA 80 31 00	Fixture Transformer	トランス取付金具			
94	40 10 00 EA 04 01 00	Pan Head Screw 4 x 10	ナベ小ネジ 4×10	ZMC2-Y		
95	40 10 00 EV 43 00 40	Teethed Locked Washer 4S	歯付座金 4S	–do.–		
96	30 54 00 AA 80 24 20	Stay	ステー			
97	40 10 00 EQ 04 11 60	Pan Head Screw 4.1 x 16	丸木ネジ 4.1×16	ZMC-2Y		
98	30 10 00 CB 02 32 00	Slip Fitting (Black)	スベリ座 (黒)			
99	40 10 00 EB 34 03 00	Round Head Wooden Screw 4 x 30	皿木ネジ 4×30	ZMC-BL		
100	30 54 00 AA 80 24 60	Releaseable Hinge	引掛け蝶番			
101	40 10 00 ER 32 11 60	Oval Head Wooden Screw 2.1 x 20	丸皿木ネジ 2.1×20	FCM-BL		
102	40 10 00 EH 33 01 60	Truss Tapping Screw 3 x 16	トラスタッピングネジ 3×16	FNM3-3g		
103	30 54 00 CB 02 25 70	Cord Column	コード巻付コラム			
104	40 10 00 EB 34 02 50	Flat Head Screw 4 x 25	皿小ネジ 4×25	FCM-BL		
105	40 10 00 LA 00 02 90	Lug Terminal	アースラグ			
106	40 10 00 EV 10 00 40	Hexagonal Nut 4S	六角ナット 4S	ZMC2-Y		
107	40 10 00 EV 43 00 40	Teethed Locked Washer 4S	歯付座金 4S	–do.–		
108	40 10 00 EA 34 01 00	Pan Head Screw 4 x 10	ナベ小ネジ 4×10	ZMC2-BL		
109	40 10 00 KA 30 02 10	Toggle Switch	トグルスイッチ			
110	40 10 00 KA 30 00 10	For Toggle Switch	特殊六角ナット			
111		–do.–	特殊座金			
112		–do.–	特殊ナット			
113	40 10 00 CB 07 06 90	Cord Stopper	コードストッパー			
114	40 10 00 MG 00 02 30	AC Cord	電源コード			
115	40 10 00 LB 20 04 90	Fuse Holder	ヒューズホルダー			
116		For Fuse Holder	特殊平座金			
117		–do.–	特殊六角ナット			
118	40 10 00 LB 20 03 00	AC Socket	ACソケット			
119	30 54 00 AA 80 0C 80	Metal, AC Socket Holder	ACソケット取付金具			
120	40 10 00 EA 33 0C 80	Pan Head Screw 3 x 8	ナベ小ネジ 3×8	FCM3-BL		
121	40 10 00 EV 41 00 30	Theethed Locked 3S	歯付座金 3S	ZMC2-Y		

Ref. No.	Part No.	Description			Remarks	Common Models	
122	40 10 00 EV 10 00 30	Hexagonal Nut	3S	六角ナット 3 S	–do.–		
123	40 10 00 LB 20 06 30	Horn Jack		イヤホーンジャック			
124	40 10 00 LX 20 00 10	Plain Washer For Phone Jack	9S	歯付座金 9 S			
125	30 56 00 CB 06 20 10	Phone Nut		ホーンナット			
126	30 54 00 NA 80 12 40	Circuit Board HI		H I シート			
127	40 10 00 LB 30 03 10	Stereo Jack		ステレオジャック			
128	30 54 00 NA 80 12 30	OSW Circuit Board		O S W シート			
129	40 10 00 KA 40 02 60	Slide Switch		スライドスイッチ			
130	40 10 00 EA 32 60 50	Pan Head Screw	2.6 x 5	ナベ小ネジ 2.6×5	ZMC2-BL		
131	40 10 00 LB 30 01 60	Cannon Socket	XLR3-32	キャノンソケット XLR3－32			
132	40 10 00 EH 53 00 60	Round Head Wooden Screw	3 x 6	丸皿タッピンネジ 3 × 6	FNM3-3g		
133	40 10 00 LB 30 01 50	Cannon Socket	XLR3-31	キャノンソケット XLR3－31			
134	30 54 00 NA 80 12 10	BP Circuit Board		B P シート			
135	40 10 00 LB 20 08 60	Jack		ジャック			
136	40 10 00 LX 20 00 20	Nut For Phone Jack	9S	歯付座金 9 S			
137	30 54 00 AA 80 23 70	Shield Panel		シールド板			
138	30 54 00 AA 80 23 40	Back Panel		バックパネル			
139	40 10 00 EH 33 01 20	Round Head Wooden Screw	3 x 12	トラスタッピンネジ 3 × 12	ZMC2-BL		
140	30 54 00 AA 80 30 20	Hinge		蝶番			

Ref. No.	Parts No.	Description			Remarks	Common Models	
	NORTH EUROPEAN MODEL						
	40 10 00 KB 00 07 10	Fuse Miniature	0.5AT 250V	ミニヒューズ 0.5AT 250V			
	40 10 00 LB 20 05 90	Fuse Holder		ヒューズホルダー			
	40 10 00 AA 03 15 80	Fuse Holder Washer		ヒューズホルダーワッシャ			
	40 10 00 CA 80 03 80	Blind Fold Plate (For Chassis)		盲板			
	40 10 00 LB 20 02 50	Voltage Selector		電圧切替器			
	40 10 00 LA 00 10 40	Terminal		ボイボ端子			
	30 54 00 AA 00 27 40	Terminal Fixture		ボイボ端子取付金具			
	40 10 00 EA 40 06 70	⊖ Pan Head Screw	M4 x 6	ナベ小ネジ M4 × 6	FCM-BL		
	40 10 00 EA 03 02 00	—do.—	M3 x 20	ナベ小ネジ M3 × 20	ZMC2-Y		
	40 10 00 EV 10 00 30	Hexagonal Nut	A3S	六角ナット	ZMC2-Y		
	40 10 00 EV 41 00 30	Teethed Locked Washer	A3S	歯付座金 A3S	ZMC2-Y		
	40 10 00 EA 33 00 80	⊖ Pan Head Screw	M3 x 8	ナベ小ネジ M3 × 8	FCM 3		
	B.S. MODEL						
	40 10 00 KB 00 07 10	Fuse Miniature	0.5AT 250V	ミニヒューズ 0.5AT 250V			
	40 10 00 LB 20 05 90	Fuse Holder		ヒューズホルダー			
	40 10 00 AA 03 15 80	Fuse Holder Washer		ヒューズホルダーワッシャ			
	40 10 00 LB 20 02 50	Voltage Selector		電圧切替器			
	40 10 00 LA 00 10 40	Terminal					
	30 54 00 AA 80 27 40	Terminal Fixture		ボイボ端子取付金具			
	40 10 00 EA 40 06 70	⊖ Pan Head Screw	M4 x 6	ナベ小ネジ M4 × 6	FCM-BL		
	40 10 00 EA 03 02 00	—do.—	M3 x 20	ナベ小ネジ	ZMC2-Y		
	40 10 00 CA 80 03 80	Blind Fold Plate (For Chassis)		盲板			
	40 10 00 EV 10 00 30	Hexagonal Nut		六角ナット	ZMC2-Y		
	40 10 00 EV 41 00 30	Teethed Locked Washer	A3S	歯付座金 A3S	ZMC2-Y		
	40 10 00 EA 33 00 80	⊖ Pan Head Screw	M3 x 8	ナベ小ネジ	FCM 3		
	FOR US/CANADIAN MODEL						
	40 10 00 KB 00 11 50	UL Fuse	0.5A 250V	UL ヒューズ 0.5A 250V			
	40 10 00 LB 20 04 80	Fuse Holder		ヒューズホルダー			
	40 10 00 LB 30 02 50	AC Socket		3PACコンセント			
	40 10 00 EV 10 00 30	Hexagonal Nut		六角ナット	ZMC2-Y		
	40 10 00 EV 41 00 30	Teethed Locked Washer	A3S	歯付座金 A3S	ZMC2-Y		
	40 10 00 EA 33 00 80	⊖ Pan Head Screw	M3 x 8	ナベ小ネジ M3 × 8	FCM 3		
	FOR AUSTRALIAN MODEL						
	40 10 00 KB 00 03 10	Fuse	0.5A 250V	ヒューズ			
	40 10 00 LB 20 04 80	Fuse Holder		ヒューズホルダー			
	40 10 00 LA 00 10 00	Color Terminal		カラー端子板			
	30 54 00 AA 80 29 70	Blind Fold Plate (For Chassis)		盲板			
	40 10 00 EA 33 00 60	⊖ Pan Head Screw	M3 x 6	ナベ小ネジ M3 × 6	FCM-BL		
	40 10 00 EA 33 00 80	—do.—	M3 x 8	ナベ小ネジ M3 × 8	FCM 3		
	FOR SOUTH AFRICAN MODEL						
	40 10 00 KB 00 03 10	Fuse	0.5A 250V	ヒューズ 0.5A 250V			
	40 10 00 LB 20 04 80	Fuse Holder		ヒューズホルダー			
	40 10 00 LB 20 02 50	Voltage Selector		電圧切替器			
	40 10 00 CA 80 03 80	Blind Fold Plate (For Chassis)		盲板			
	40 10 00 EV 10 00 30	Hexagonal Nut		六角ナット	ZMC2-Y		
	40 10 00 EV 41 00 30	Teethed Locked Washer		歯付座金	ZMC2-Y		

Ref. No.	Parts No.	Description		Remarks	Common Models	
	40 10 00 EA 33 00 80	⊖ Pan Head Screw	M3 x 8	㊉ナベ小ネジ M3 × 8	FCM 3		
	FOR GENERAL MODEL						
	40 10 00 KB 00 03 10	Fuse	0.5A 250V	ヒューズ 0.5A 250V			
	40 10 00 LB 20 04 80	Fuse Holder		ヒューズホルダー			
	40 10 00 LB 20 02 50	Voltage Selector		電圧切替器			
	40 10 00 LA 80 03 80	Blind Fold Plate (For Chassis)		盲板			
	40 10 00 EV 10 00 30	Hexagonal Nut		六角ナット	ZMC2-Y		
	40 10 00 EV 41 00 30	Teethed Locked Washer		歯付座金 A3S	—do.—		
	40 10 00 EA 33 00 80	⊖ Pan Head Screw	M3 x 8	㊉ナベ小ネジ M3 × 8	FCM 3		
	PARTS LIST OF CIRCUIT BOARD						
	30 54 00 NA 80 11 60	PA Circuit Board		PA シート			
	40 10 00 FM 09 71 00	Bipolar Electrolytic Cap	10μ 16V	BP ケミコン 10μ 16V			
	40 10 00 FM 09 74 70	—do.—	47μ 16V	BP ケミコン 47μ 16V			
	40 10 00 FP 13 64 70	Tantalum Capacitor	4.7μ 16V	タンタルコン 4.7μ 16V			
	40 10 00 GA 80 27 00	Input Transformer		インプットトランス			
	40 10 00 GB 06 51 20	Filter Coil	1.2H	フィルターコイル 1.2H			
	40 10 00 HS 31 01 00	Variable Resistor	16φ G50K	ボリューム 16φ G50K			
	40 10 00 HS 31 00 90	—do.—	16φ D50K + ZD50K	ボリューム 16φ D50K + ZD50K			
	40 10 00 HS 32 02 60	—do.—	24φ A25K	ボリューム 24φ A25K			
	40 10 00 iA 05 61 70	Transistor	2SA561	トランジスター 2SA561			
	40 10 00 iC 16 81 10	—do.—	2SC1681	トランジスター 2SC1681			
	40 10 00 iF 00 00 40	Diode	1S1555	ダイオード 1S1555			
	40 10 00 iG 00 13 30	IC	TA7136P	IC TA7136P			
	40 10 00 KA 40 03 60	Slide Switch		スライドスイッチ			
	40 10 00 LB 10 01 60	CIS Keying Pin		CISキーイングプラグ			
	40 10 00 LB 40 01 10	CIS 4P Socket		CIS 4P サイドエントリー雌型			
	40 10 00 LB 60 13 50	CIS 11P Socket Top		CIS 11P 基板用雄接触子			
	40 10 00 LB 40 02 90	CIS 4P Socket		CIS 4P ボトムエントリー雌型			
	30 54 00 AA 80 23 80	SW Holder Plate		SW取付金具			
	30 54 00 NA 80 1 70	MP Circuit Board		MP シート			
	40 10 00 FM 09 71 00	Bipolar Electrolytic Cap	10μ 16V	BP ケミコン 10μ 16V			
	40 10 00 FM 22 81 00	—do.—	100μ 25V	BP ケミコン 100μ 25V			
	40 10 00 FP 13 64 70	Tantalum Capacitor	4.7μ 16V	タンタルコン 4.7μ 16V			

Ref. No.	Parts No.	Description			Remarks	Common Models	
	40 10 00 GB 06 51 20	Filter Coil	1.2H	フィルターロイル 1.2H			
	40 10 00 HS 31 01 00	Variable Resistor	G50KCT	ボリューム G50KCT付			
	40 10 00 iA 05 61 70	Transistor	2SA561	トランジスター 2SA561			
	40 10 00 iC 16 81 10	—do.—	2SC1681	トランジスター 2SC1681			
	40 10 00 iF 00 00 40	Diode	1S1555	ダイオード 1S1555			
	40 10 00 LB 10 01 60	CIS Keying Pin		CISキーイングプラグ			
	40 10 00 LB 40 01 10	CIS 4P Socket		CIS 4P サイドエントリー雌型			
	40 10 00 LB 50 00 50	CIS 5P Socket		CIS 5P サイドエントリー雌型			
	40 10 00 LB 60 13 50	CIS 11P Socket		CIS 11P 基板用雄接触子			
	30 54 00 NE 80 10 00	IC Module	＃80100	ICモジュール ＃80100			
	30 54 00 NA 80 11 80	AUX Circuit Board		AUXシート			
	40 10 00 FM 09 71 00	Bipolar Electrolytic Cap	10μ 16V	BPケミコン 10μ 16V			
	40 10 00 FM 09 74 70	—do.—	47μ 16V	BPケミコン 47μ 16V			
	40 10 00 HS 31 00 90	Variable Resistor	16φ D50K + ZD50K	ボリューム 16φ D50K＋ZD50K			
	40 10 00 HS 32 02 10	—do.—	24φ A50K	ボリューム 24φ A50K			
	40 10 00 iG 00 13 30	IC	TA7136P	IC TA7136P			
	40 10 00 LB 10 01 60	CIS Keying Pin		CISキーイングピン			
	40 10 00 LB 40 01 10	CIS 4P Sockt		CIS 4P サイドエントリー雌型			
	40 10 00 LB 50 00 50	CIS 5P Socket		CIS 5P サイドエントリー雌型			
	40 10 00 LB 60 13 70	CIS 7P Socket		CIS 7P サイドエントリー雌型			
	40 10 00 LB 60 13 50	CIS 11P Socket Top		CIS 11P 基板用雄接触子			
	30 54 00 NA 80 11 90	HP Circuit Board		HPシート			
	40 10 00 FM 09 71 00	Bipolar Electrolytic Cap	10μ 16V	BPケミコン 10μ 16V			
	40 10 00 FP 15 61 00	Tantalum Capacitor	1μ 35V	タンタルコン 1μ 35V			
	40 10 00 HL 32 34 70	Metal Oxide Film Resistor	4.7Ω 2P	酸化金属抵抗 4.7Ω 2P			
	40 10 00 HS 32 03 60	Variable Resistor	24φ A50K x 2	ボリューム 24φ A50K×2			
	40 10 00 iG 00 13 30	IC	TA7136P	IC TA7136P			
	40 10 00 iG 00 13 40	IC	TA7203P	IC TA7203P			
	40 10 00 KA 40 03 60	Slide Switch		スライドスイッチ			
	40 10 00 LB 10 01 60	CIS Keying Pin		CISキーイングピン			

Ref. No.	Parts No.	Description			Remarks	Common Models	
	40 10 00 LB 40 01 10	CIS 4P Socket		CIS 4P サイドエントリー雌型			
	40 10 00 LB 60 13 50	CIS 11P Socket Top		CIS 11P 基板用雌接触子			
	40 10 00 LB 30 03 70	Phone Jack		ヘッドホーンジャック			
	30 54 00 AA 80 23 90	SW Holder Plate		SW取付金具			
	30 54 00 NA 80 12 10	BP Circuit Board		BPシート			
	40 10 00 FM 09 71 00	Bipolar Electrolytic Cap	10μ 16V	BPケミコン 10μ 16V			
	40 10 00 FM 22 81 00	—do.—	100μ 25V	BPケミコン 100μ 25V			
	30 54 00 NE 80 [illegible] 00	IC Module	#80100	ICモジュール #80100			
	40 10 00 LB 20 08 60	Jack		ジャック			
	40 10 00 LB 10 01 60	CIS Keying Pin		CISキーイングピン			
	40 10 00 LB 40 01 10	CIS 4P Socket		CIS 4P サイドエントリー雌型			
	40 10 00 LB 50 00 50	CIS 5P Socket		CIS 5P サイドエントリー雌型			
	40 10 00 LB 60 13 70	CIS 7P Socket		CIS 7P サイドエントリー雌型			
	30 54 00 NA 80 12 00	CP Circuit Board		CPシート			
	40 10 00 CB 80 62 30	Reinforcement Board		フィルム			
	40 10 00 LB 60 13 60	CIS 11P Socket		CIS 11P トップエントリー雌型			
	30 54 00 NA 80 12 20	LED Circuit Board		LEDシート			
	40 10 00 FP 15 52 20	Tantalum Capacitor	0.22μ 35V	タンタルコン 0.22μ 35V			
	40 10 00 HT 41 01 40	Variable Resistor	B47K	ソリッドボリューム B 47 K			
	40 10 00 iA 05 61 70	Transistor	2SA561	トランジスター 2SA561			
	40 10 00 iC 16 81 10	—do.—	2SC1681	トランジスター 2SC1681			
	30 54 00 NA 80 12 30	OSW Circuit Board		OSWシート			
	40 10 00 KA 40 02 60	Slide Switch		スライドスイッチ			
	30 54 00 NA 80 12 40	HI Circuit Board		HIシート			
	40 10 00 LB 30 03 10	Stereo Jack		ステレオジャック			
	30 54 00 NA 80 12 70	PS Circuit Board		PSシート	BS/North European model		

Ref. No.	Parts No.	Description		Remarks	Common Models	
	30 54 00 NA 80 12 50	PS Circuit Board	P S シ ー ト	For General, South African, Australian models		
	30 54 00 NH 80 12 60	—do.—	P S シ ー ト	For U.S./Canadian models		
	40 10 00 HW 11 44 70	Fuse Resistor 47Ω 145mA	ヒューズ抵抗 47Ω 145mA			
	40 10 00 HW 11 33 90	—do.— 3.9Ω 500mA	ヒューズ抵抗 3.9Ω 500mA			
	40 10 00 iA 05 61 70	Transistor 2SA561	トランジスター 2SA561			
	40 10 00 iB 05 96 20	—do.— 2SB596	トランジスター 2SB596			
	40 10 00 iC 07 34 20	—do.— 2SC734	トランジスター 2SC734			
	40 10 00 iD 05 26 10	—do.— 2SD526	トランジスター 2SD526			
	40 10 00 iH 00 00 50	Diode 10DC-2	ダイオード 10DC-2	iH00014		
	40 10 00 iH 00 01 30	—do.— 10DC-2R	ダイオード 10DC-2R	iH00015		
	40 10 00 iF 00 06 30	Zener Diode WZ-230	ツェナーダイオード WZ-230			
	40 10 00 LB 60 13 80	Connector Plug 6P	コネクターピン 6P			
	30 54 00 BA 80 08 10	Heat Sink	放熱板			
	30 54 00 CB 07 28 80	Bush	ブッシュ			
	40 10 00 iL 00 02 70	Base AC229	ベース AC229			