

# EMX 66M

POWERED MIXER

## SERVICE MANUAL



EMX66M

- OPTION  
RK-88 RACK MOUNT KIT

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RK88 20020325-2500



HAMAMATSU, JAPAN

1,387K-2101FF ① Printed in Japan 2002.03

## 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:** This presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principal-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 changes in specification 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.

## WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical / electronic and / or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and / or birth defects or other reproductive harm.

**DO NOT PLACE SOLDER, ELECTRICAL / ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!**

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder / flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

### IMPORTANT NOTICE FOR THE UNITED KINGDOM

#### Connecting the Plug and Cord

**WARNING:** THIS APPARATUS MUST BE EARTHED

**IMPORTANT:** The wires in this main lead are coloured in accordance with the following code:  
 GREEN-AND-YELLOW: EARTH  
 BLUE: NEUTRAL  
 BROWN: LIVE

As the colours of the wires in the main lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:


The GREEN-and-YELLOW wire must be connected to the terminal in the plug that is marked with the letter E or the safety earth symbol (or coloured GREEN or GREEN-and-YELLOW).

The BLUE wire must be connected to the terminal that is marked with the letter N (or coloured BLACK).

The BROWN wire must be connected to the terminal that is marked with the letter L (or coloured RED).

This applies only to products distributed by Yamaha Kemble Music (U. K.) Ltd.

### ■ WARNING

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

## ■ SPECIFICATIONS

### ● General specifications

<b>Maximum output power</b>	300 W + 300 W/4Ω @0.5% THD at 1 kHz (SPEAKERS OUT A, B) 205 W + 205 W/8Ω @0.5% THD at 1 kHz (SPEAKERS OUT A, B) 600 W/8Ω @0.5% THD at 1 kHz (BRIDGE)	
<b>Frequency response</b>	20 Hz–20 kHz +1 dB, –3 dB @1 W output into 8Ω (SPEAKERS OUT) 20 Hz–20 kHz +1 dB, –3 dB @+4 dB output into 10 kΩ (MAIN OUT, MONITOR OUT, EFFECT SEND)	
<b>Total harmonic distortion</b>	Less than 0.5% @20 Hz–20 kHz, 150 W output into 4Ω (SPEAKERS OUT A, B) Less than 0.3% @20 Hz–20 kHz, +14 dB output into 10 kΩ (MAIN OUT, MONITOR OUT, EFFECT OUT)	
<b>Hum &amp; noise (Average, Rs=150Ω) (with 20 Hz–20 kHz BPF)</b>	–124 dB equivalent input noise, –65 dB residual output noise (SPEAKERS OUT)	
	–88 dB residual output noise (MAIN OUT, MONITOR OUT)	
	–79 dB (83 dB S/N) MAIN OUT, MONITOR OUT	Master level control at nominal level and all channel level controls at minimum.
	–69 dB (73 dB S/N) MAIN OUT, MONITOR OUT	Master level control at nominal level and 1 channel level control at nominal level.
	–75 dB (79 dB S/N) EFFECT SEND	All channel level controls at minimum.
<b>Maximum voltage gain</b>	–69 dB (73 dB S/N) EFFECT SEND	1 channel level control at nominal level.
	88 dB CH IN (Low-Z) to SPEAKERS OUT (CH1–4) 66 dB CH IN (Low-Z) to MAIN OUT, MONITOR OUT (CH1–4) 72 dB CH IN (Low-Z) to EFFECT OUT (CH1–4) 48 dB CH IN (Low-Z) to REC OUT (CH1–4) 56 dB CH IN (Hi-Z) to MAIN OUT, MONITOR OUT (CH1–4) 26 dB AUX IN to MAIN OUT 24 dB 2TR IN to MAIN OUT 66 dB MIC IN to MAIN OUT, MONITOR OUT (CH5•6) 26 dB LINE IN to MAIN OUT, MONITOR OUT (CH5) 46 dB Super Hi-Z IN to MAIN OUT, MONITOR OUT (CH6)	
	<b>Crosstalk at 1 kHz</b>	
	65 dB adjacent input, 65 dB input to output	
	<b>Input channel equalization</b>	
±15 dB Maximum HIGH 10 kHz shelving* MID 2.5 kHz peaking LOW 100 Hz shelving* *Turn over/roll-off frequency of shelving: 3 dB below maximum variable level.		
<b>Meters</b>	5 POINTS LED METER (–10, –5, 0, +3, +6 dB) (MAIN OUT, MONITOR OUT)	
<b>Graphic equalizer</b>	7 bands (125, 250, 500, 1 k, 2 k, 4 k, 8 kHz), ±12 dB Maximum (MAIN OUT, MONITOR OUT)	
<b>Internal digital effect</b>	8 programs (VO.ECHO 1, VO.ECHO 2, VO.REVERB 1, VO.REVERB 2, HALL 1, HALL 2, ROOM, PLATE)	
<b>Phantom power</b>	+15 V is supplied to electrically balanced inputs for powering condenser microphones via 2.4 kΩ current limiting/isolation resistors.	
<b>Limiter</b>	Comp. : THD≥0.5% (SPEAKERS OUT)	
<b>LIMIT indicators</b>	Turns on. : THD≥0.5% (SPEAKERS OUT)	
<b>Protection Circuit (Power Amp.)</b>	POWER Switch on/off Mute, DC Detection, Temp (Heatsink Temp≥90°C)	
<b>Foot switch (FC5)</b>	DIGITAL EFFECT MUTE : on/off	
<b>Optional accessories</b>	RK-88, FC5	
<b>Power requirement/Power consumption</b>	USA and Canada 120 V AC 60 Hz/250 W Europe 230 V AC 50 Hz/300 W Other 240 V AC 50 Hz/300 W	
<b>Dimensions (WxHxD)</b>	482 x 305 x 328 mm	
<b>Weight</b>	15 kg	
<b>Supplied accessories</b>	AC power cord, Owner's Manual	

- 0 dB=0.775 Vrms

### ● Input specifications

Input connectors	PAD	Actual load impedance	Nominal impedance	Input level			Connector type
				Sensitivity <sup>1</sup>	Nominal level	Max. before clipping	
CH INPUT (Low-Z) (CH1-4)	OFF	3 k $\Omega$	50-600 $\Omega$ Mics	-62 dB (0.616 mV)	-50 dB (2.45 mV)	-20 dB (77.5 mV)	XLR-3-31 type <sup>2</sup>
	ON		600 $\Omega$ Lines	-32 dB (19.5 mV)	-20 dB (77.5 mV)	+10 dB (2.45 V)	
CH INPUT (Hi-Z) (CH1-4)	OFF	10 k $\Omega$	50-600 $\Omega$ Mics	-52 dB (1.95 mV)	-40 dB (7.75 mV)	-10 dB (245 mV)	Phone jack (TRS) <sup>2</sup>
	ON		600 $\Omega$ Lines	-22 dB (61.6 mV)	-10 dB (245 mV)	+20 dB (7.75 V)	
MIC INPUT (CH5•6)		3 k $\Omega$	50-600 $\Omega$ Mics	-62 dB (0.616 mV)	-50 dB (2.45 mV)	-20 dB (77.5 mV)	XLR-3-31 type <sup>2</sup>
LINE INPUT (CH5) (1, 2)		10 k $\Omega$	600 $\Omega$ Lines	-22 dB (61.6 mV)	-10 dB (245 mV)	+20 dB (7.75 V)	Phone jack <sup>3</sup>
Super Hi-Z (CH6) (1, 2)		470 k $\Omega$	1 k $\Omega$	-42 dB (6.16 mV)	-30 dB (24.5 mV)	0 dB (0.775 V)	Phone jack <sup>3</sup>
AUX IN		10 k $\Omega$	600 $\Omega$ Lines	-22 dB (61.6 mV)	-10 dB (245 mV)	+20 dB (7.75 V)	Phone jack <sup>3</sup>
2TR IN (1, 2)		10 k $\Omega$	600 $\Omega$ Lines	-22 dBV (79.4 mV)	-10 dBV (316 mV)	+17.8 dBV (7.76 V)	RCA phono jack <sup>3</sup>

1. Sensitivity is the lowest level that can produce an output of +4 dB (1.23 V) or the nominal output level when the unit is set at maximum gain.  
(All level controls are at maximum position.)
  2. Balanced
  3. Unbalanced
- 0 dB=0.775 Vrms, 0 dBV=1 Vrms.

### ● Output specifications

Output connectors	Actual source impedance	Nominal impedance	Output level		Connector type
			Nominal	Max. before clipping	
POWER AMP OUT (1•2) (A, B)	0.1 $\Omega$	4/8 $\Omega$ Speaker	60 W/4 $\Omega$	(300 W/4 $\Omega$ )	Phone jack
BRIDGE OUT	0.1 $\Omega$	8 $\Omega$ Speaker	120 W/8 $\Omega$	(600 W/8 $\Omega$ )	Phone jack
MAIN OUT	600 $\Omega$	10 k $\Omega$ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone jack
MONITOR OUT	600 $\Omega$	10 k $\Omega$ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone jack
EFFECT OUT	600 $\Omega$	10 k $\Omega$ Lines	+4 dB (1.23 V)	+20 dB (7.75 V)	Phone jack
REC OUT (1, 2)	600 $\Omega$	10 k $\Omega$ Lines	-10 dBV (316 mV)	+10 dBV (3.16 V)	RCA phono jack

- All output jacks are unbalanced.
- 0 dB=0.775 Vrms, 0 dBV=1 Vrms.



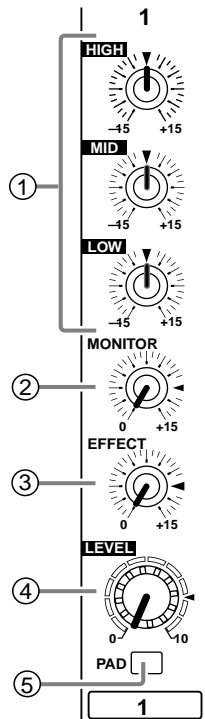


# PANEL LAYOUT

## ● CONTROL PANEL

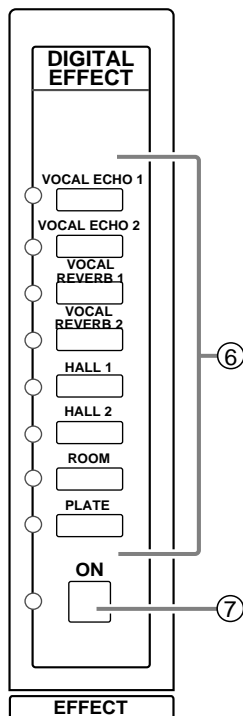
### 1. CONTROL SECTION

- Channel Control



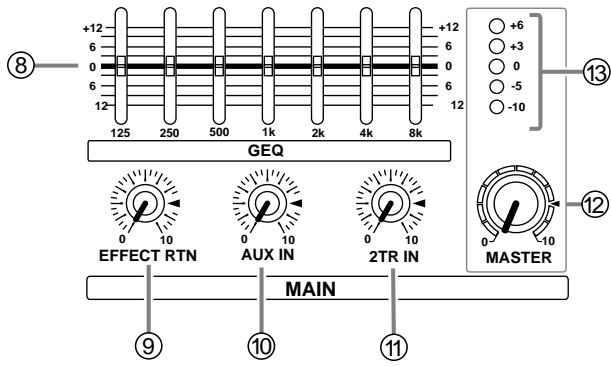
- ① Equalizer (HIGH, MID, LOW)
- ② MONITOR control
- ③ EFFECT control
- ④ LEVEL control
- ⑤ PAD switch (CH1-4)

- Digital Effect



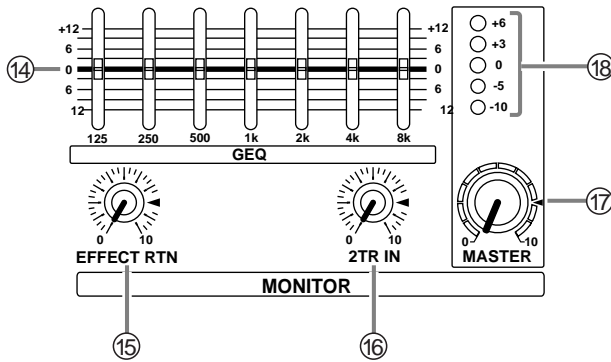
- ⑥ EFFECT select switch
- ⑦ ON switch, indicator

• MAIN



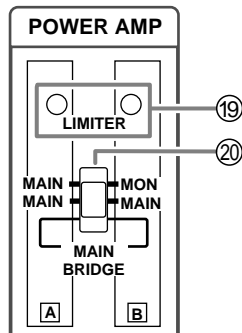
- ⑧ Graphic Equalizer
- ⑨ EFFECT RTN control
- ⑩ AUX IN control
- ⑪ 2TR IN control
- ⑫ MASTER control
- ⑬ Peak Level Indicator

• MONITOR



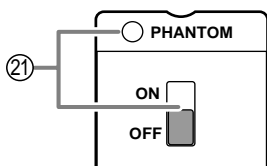
- ⑭ Graphic Equalizer
- ⑮ EFFECT RTN control
- ⑯ 2TR IN control
- ⑰ MASTER control
- ⑱ Peak Level Indicator

• POWER AMP



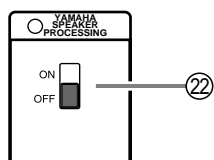
- ⑲ LIMITER indicator
- ⑳ POWER AMP select switch

• PHANTOM switch, indicator



- ㉑ PHANTOM ON/OFF switch, indicator

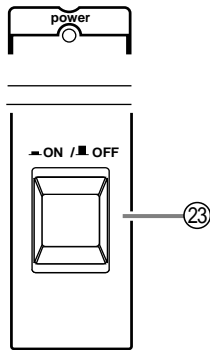
• YAMAHA SPEAKER PROCESSING



- ㉒ ON/OFF switch

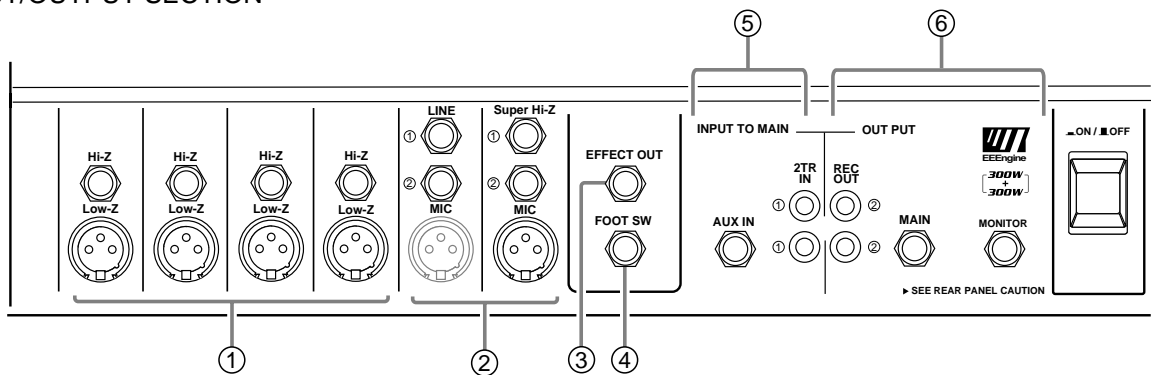


- POWER switch, indicator



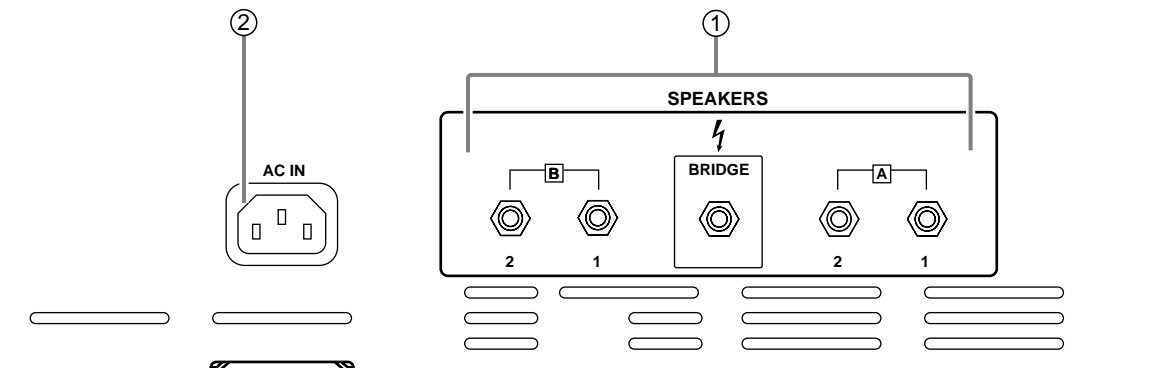
23 POWER ON/OFF switch, indicator

2. INPUT/OUTPUT SECTION



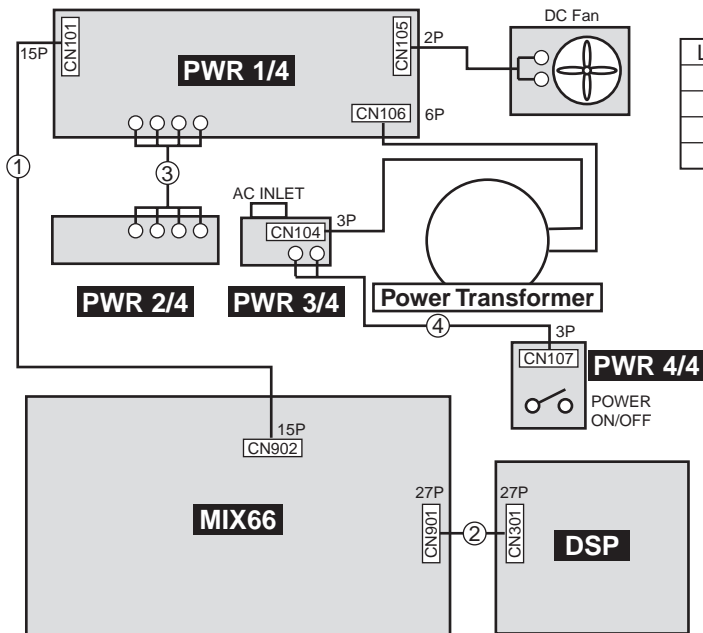
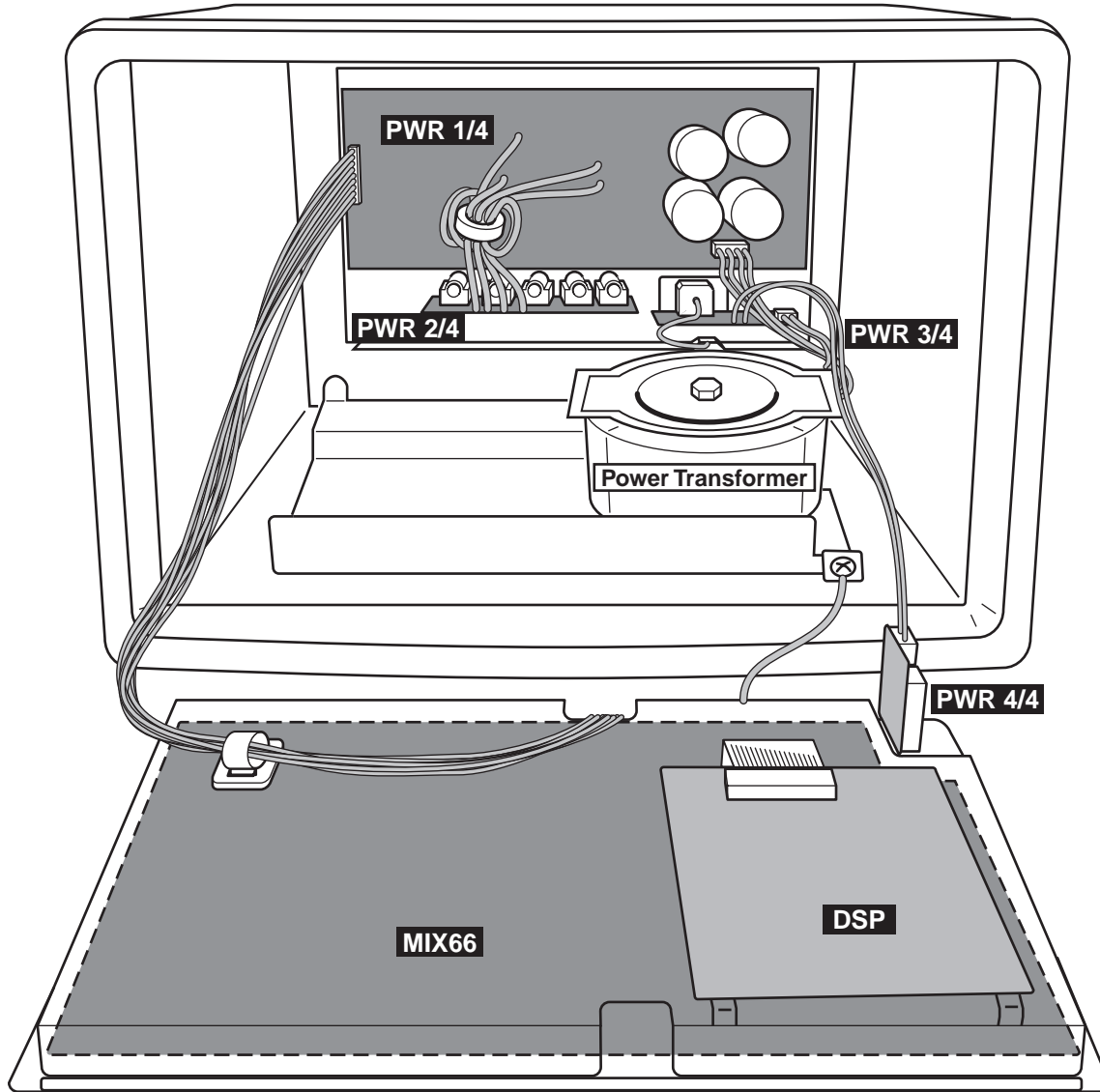
- ① INPUT terminal (Hi-Z, Low-Z) (CH1-4)
- ② INPUT terminal (LINE, MIC, Super Hi-Z) (CH5-6)
- ③ EFFECT OUT terminal
- ④ FOOT SW terminal
- ⑤ INPUT TO MAIN terminal (AUX IN, 2TR IN)
- ⑥ OUTPUT terminal (REC OUT, MAIN, MONITOR)

● REAR PANEL



- ① SPEAKERS terminal
- ② AC IN socket

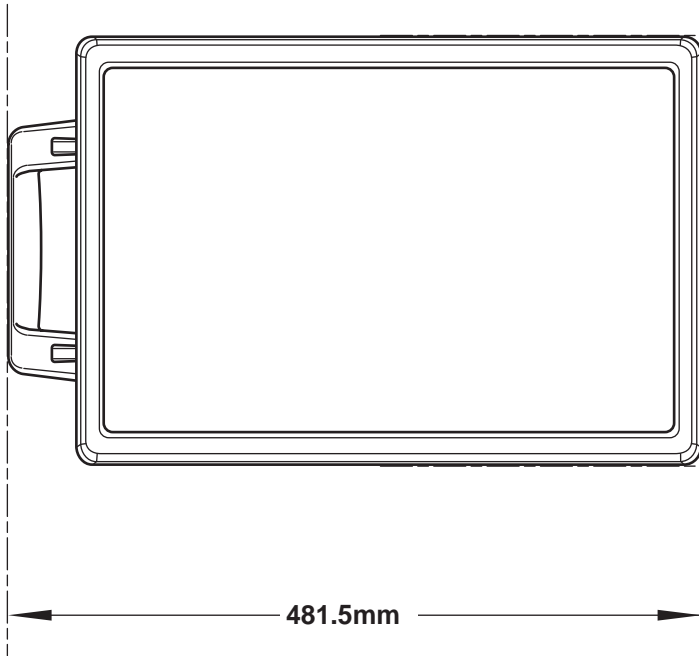
## ■ CIRCUIT BOARD LAYOUT & WIRING



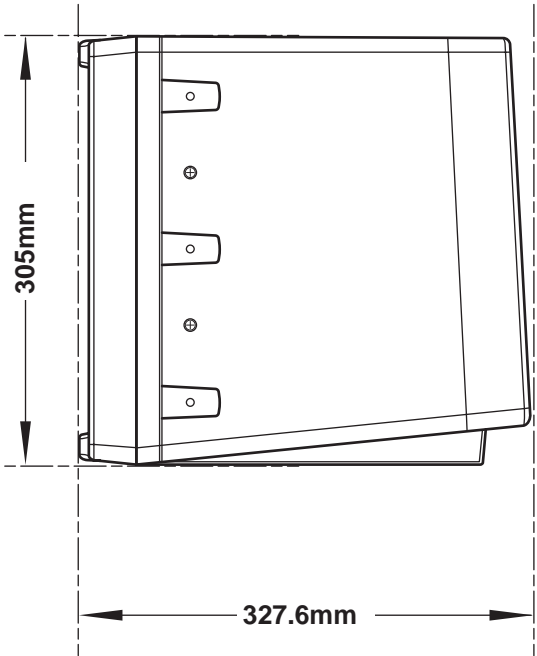
Location	Connector Assembly	Remarks	Parts No.
1	MIX66-PWR1/4	24185&2426 15P L=700	V842620
2	MIX66-DSP	100mm P=1.25	MF12710
3	PWR1/4-PWR2/4	B&B4P	(V827270)
4	PWR3/4-PWR4/4	PSW	V827290

# DIMENSIONS

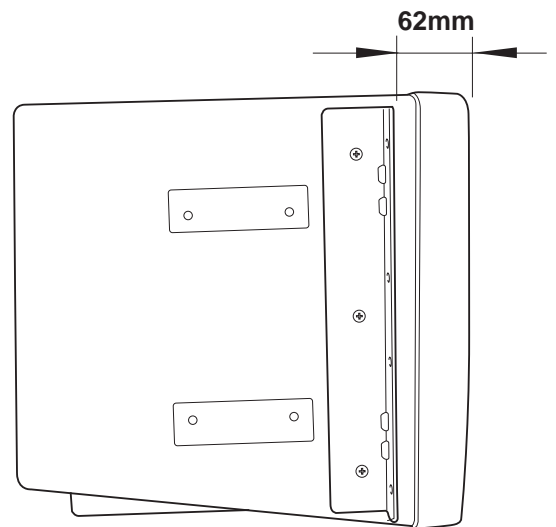
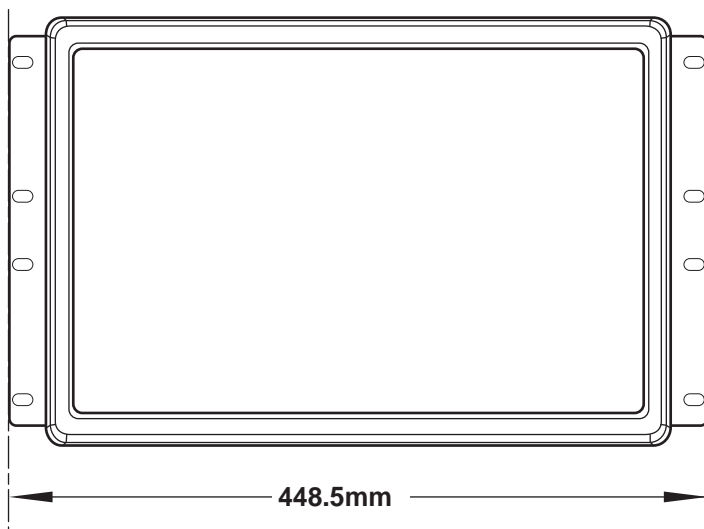
● Front View



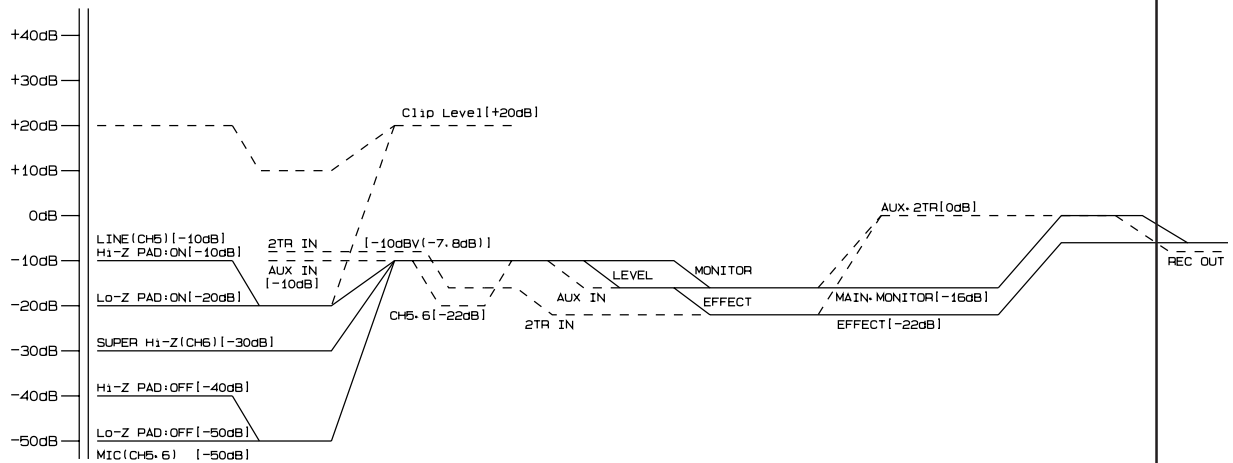
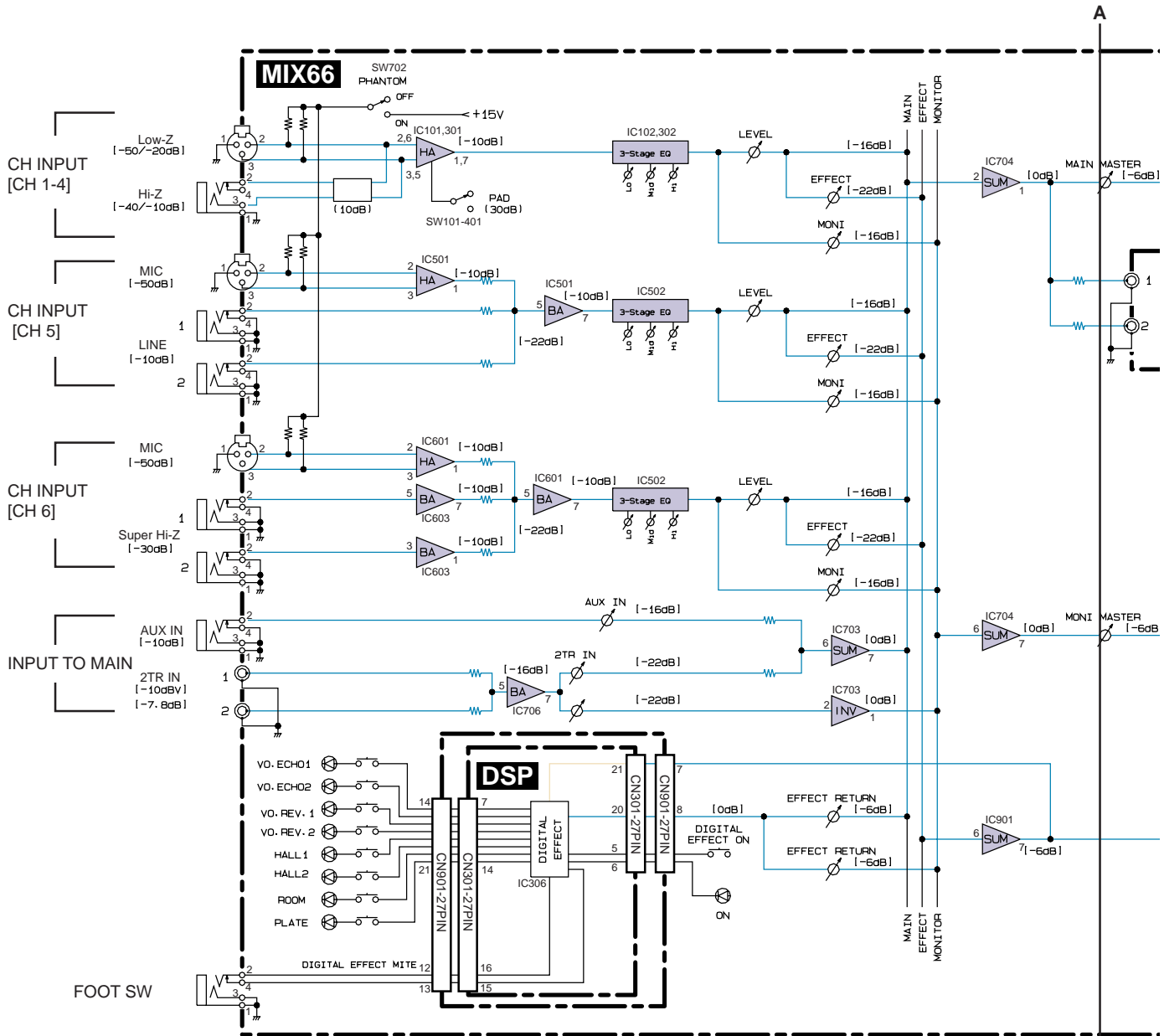
● Side View

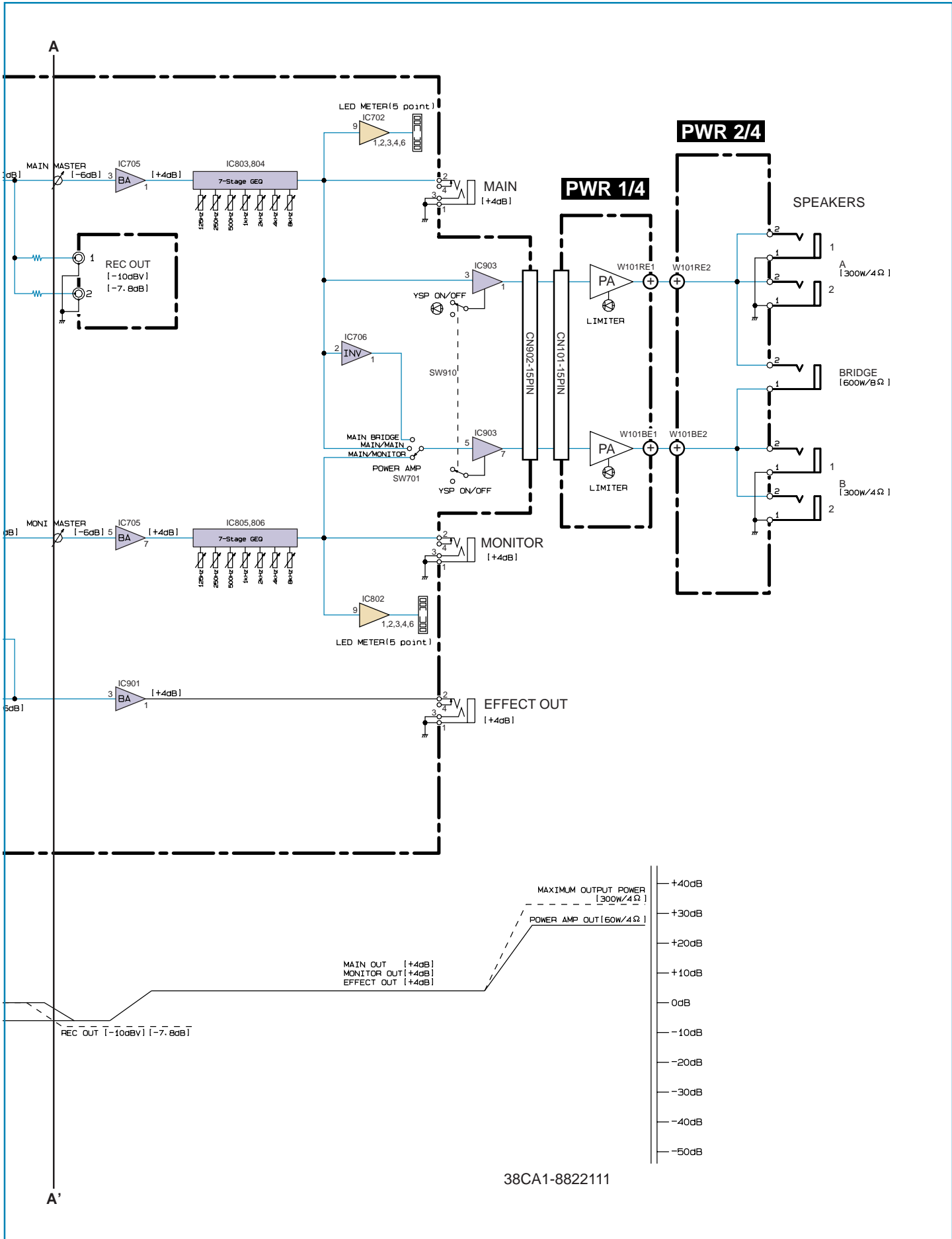


● Front View with Rack Mount Adaptor



# ■ BLOCK & LEVEL DIAGRAM





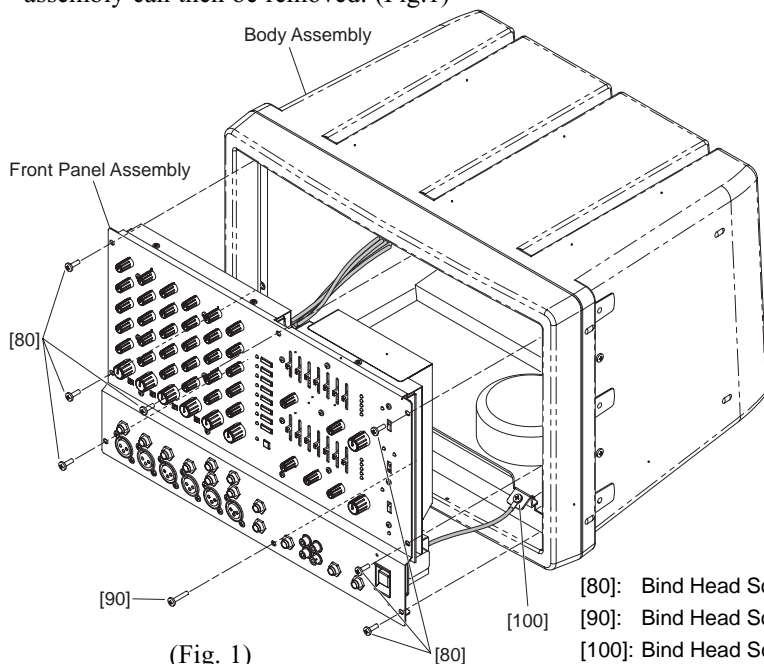
38CA1-882211

## DISASSEMBLY PROCEDURE

### 1. Front Panel Assembly

(Time required: about 3 min)

- 1-1. Remove the seven (7) screws marked [80] and the screw marked [90]. (Fig.1)
- 1-2. Hold volume knobs and pull the panel to the front. (Fig.1)
- 1-3. Remove the screw marked [100]. The front panel assembly can then be removed. (Fig.1)



(Fig. 1)

[80]: Bind Head Screw 4.0X12 MFZN2BL (VB132700)

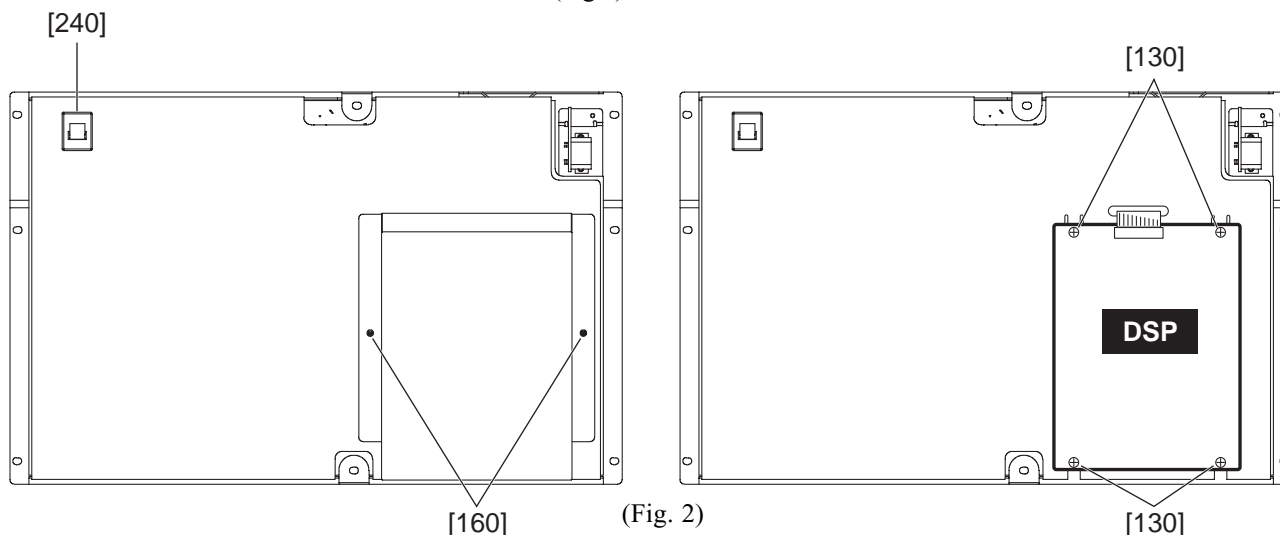
[90]: Bind Head Screw 4.0X20 MFZN2BL (VB403600)

[100]: Bind Head Screw A4.0X8 MFZN2BL (VP156800)

### 2. DSP-ZFX Circuit Board

(Time required: about 4 min)

- 2-1. Remove the front panel assembly. (See Procedure 1)
- 2-2. Remove the two (2) screws marked [160] to remove the shield case. (Fig.2)
- 2-3. Remove the four (4) screws marked [130]. The DSP-ZFX circuit board can then be removed. (Fig.2)



(Fig. 2)

[130]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

[160]: Bind Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

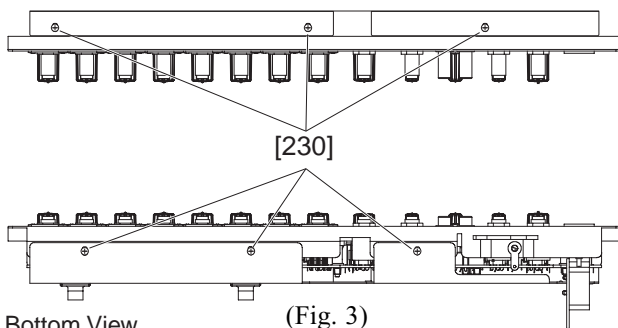
[240]: Cord Binder TS-0708 KSS (VZ765100)

**3. MIX66 Circuit Board**  
**(Time required: about 18 min)**

- 3-1. Remove the front panel assembly. (See Procedure 1)
- 3-2. Remove the cable from the cord binder marked [240]. (Fig.2)
- 3-3. Remove the shield case. (See Procedure 2-2)
- 3-4. Pull out the connector assembly from CN301 on the DSP-ZFX circuit board. (Fig.4)
- 3-5. Remove the six (6) screws marked [230] to remove the shield plate. (Fig.3)
- 3-6. Remove the fifteen (15) screws marked [40], the thirteen (13) screws marked [41], and the thirteen (13) hexagonal nuts marked [A]. (Fig.5)
- 3-7. Remove the eighteen (18) knobs marked [50], eight (8) knobs marked [60], the nine (9) knobs marked [70], and the eight (8) knobs marked [80].  
 The mix66 circuit board can then be removed. (Fig.5)

Note: When placing the front panel assembly on the table, take care not to weight the PWR circuit board 4/4. (Fig.6)

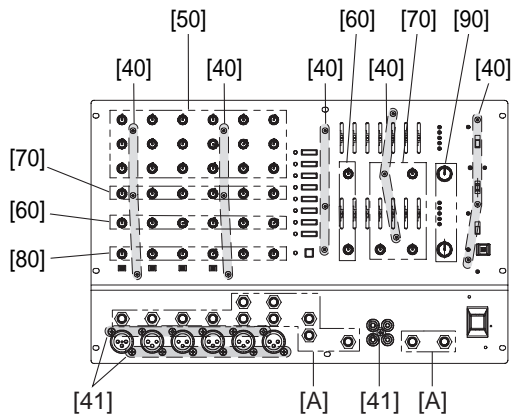
Top View



Bottom View

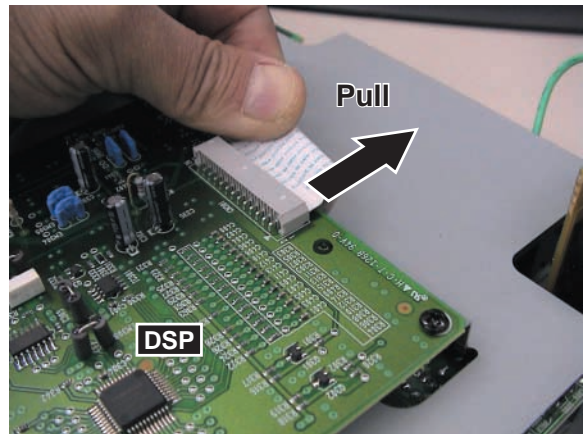
(Fig. 3)

[230] Head Tapping Screw-B 3.0X6 MFZN2BL (EP600230)

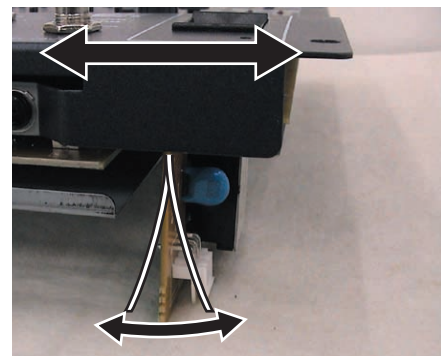


(Fig. 5)

- [40]: Screw 3X25 MFZNBL (V3289800)
- [41]: Bonding Tapping Screw-B 3.0X8 MFZN2BL (VN413300)
- [50]: Knob GREEN/M-GRAY (V6225300)
- [60]: Knob L-GRAY/M-GRAY (V6225600)
- [70]: Knob BLUE/M-GRAY (V6225400)
- [80]: Knob L-GRAY/D-GRAY (V6225700)
- [90]: Bind Head Screw 3.0X8 MFZN2BL (VB659000)



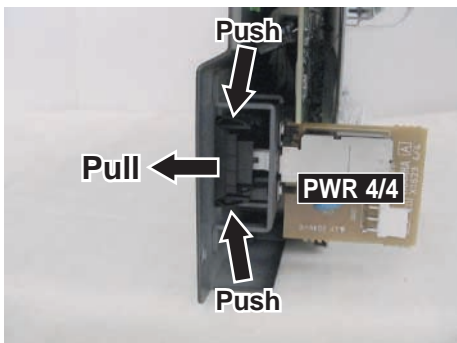
(Fig. 4)



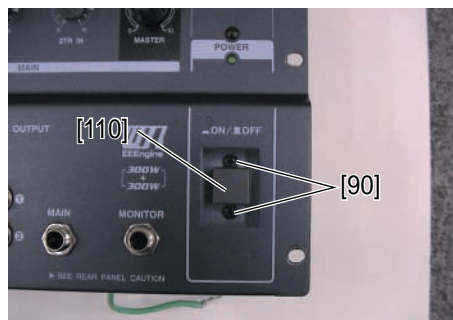
(Fig. 6)

**4. PWR Circuit Board 4/4**  
**(Time required: about 4 min)**

- 4-1. Remove the front panel assembly. (See Procedure 1)
- 4-2. Pinch slightly the stopper of the power switch escutcheon with a pleyer, and pull it to the front to remove. (Fig.7-1)
- 4-3. Remove the two (2) screws marked [90]. (Fig.7-2)
- 4-4. Remove the power switch knob marked [110]. The PWR circuit board 4/4 can then be removed. (Fig.7-2)



(Fig. 7-1)



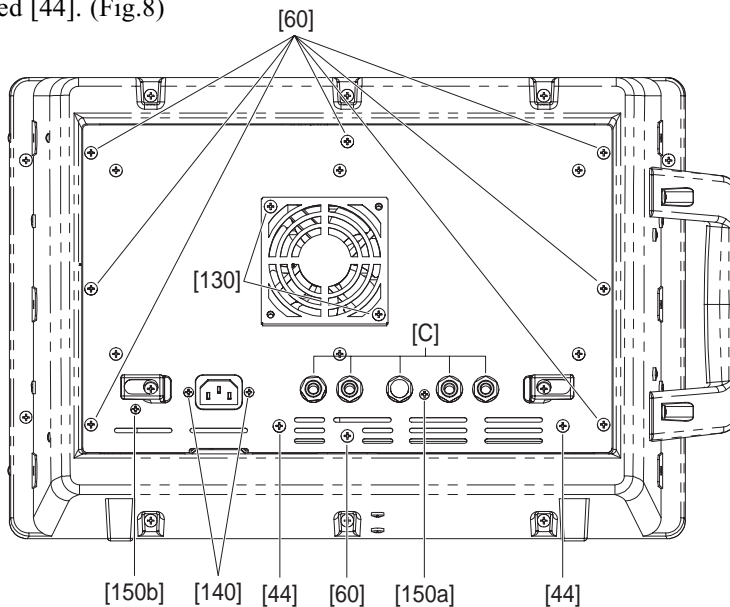
(Fig. 7-2)

[90]: Bind Head Screw 3.0X8 MFZN2BL (VB659000)

[110]: Power Switch Knob MX12/4 (VU859000)

**5. Rear Panel Assembly**  
**(Time required: about 2 min)**

- 5-1. Remove the front panel assembly. (See Procedure 1)
- 5-2. Remove the eight (8) screws marked [60] and the two (2) screws marked [44]. (Fig.8)



(Fig. 8)

[44]: Bind Head Tapping Screw-B 4.0X8 MFZN2BL (EG340190)

[60]: Bind Head Screw 4.0X12 MFZN2BL (VB132700)

[130]: Bind Head Screw 4.0X30 MFZN2BL (VT229100)

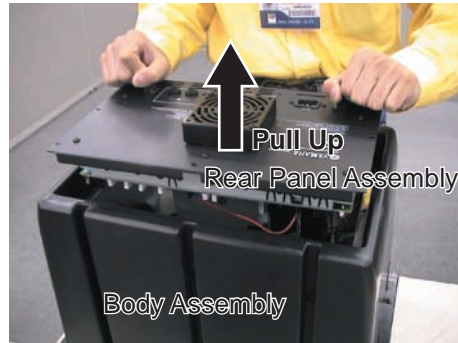
[140]: Bind Head Tapping Screw-B 3.0X12 MFZN2BL (VQ074600)

[150]: Bonding Head Tapping Screw-B 3.0X8 MFZN2BL (VN413300)



- 5-3. Hold the cord holder and pull the rear panel to the front to remove. (Fig.9)

Note: When reinstalling, install the rear panel assembly and the front panel assembly in that order to connect the power supply connector easily.



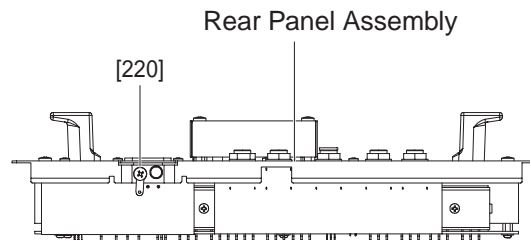
(Fig. 9)

**6. PWR Circuit Board 2/4**  
(Time required: about 4 min)

- 6-1. Remove the rear panel assembly. (See Procedure 5)  
6-2. Remove the screw marked [150a] and the five (5) hexagonal nuts marked [C]. The PWR circuit board 2/4 can then be removed. (Fig.8)

**7. PWR Circuit Board 3/4**  
(Time required: about 3 min)

- 7-1. Remove the rear panel assembly. (See Procedure 5)  
7-2. Remove the two (2) screws marked [140] and the screw marked [150b]. (Fig.8)  
7-3. Remove the screw marked [220]. The PWR circuit board 3/4 can then be removed. (Fig.10)

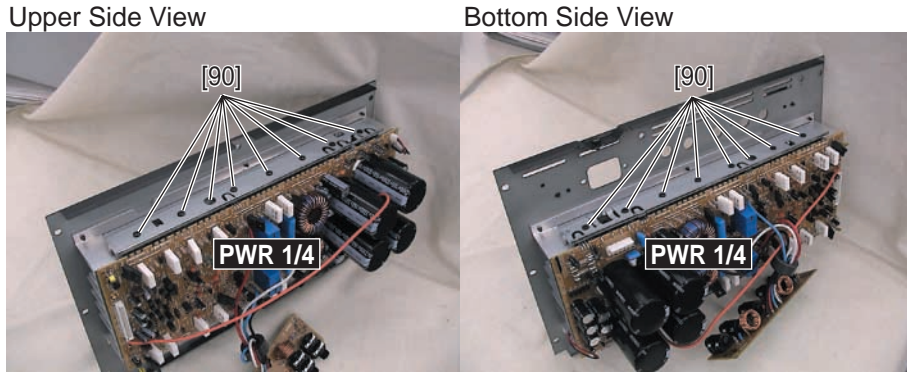


(Fig. 10)

[220]: Bind Head Screw A4.0X6 MFZN2BL (VP156800)

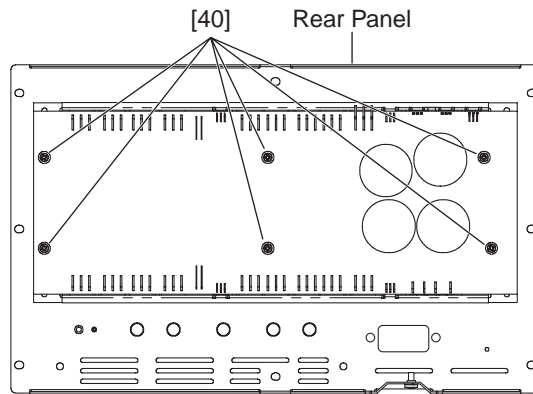
**8. PWR Circuit Board 1/4**  
**(Time required: about 10 min)**

- 8-1. Remove the rear panel assembly. (See Procedure 5)
- 8-2. Remove the PWR circuit board 2/4. (See Procedure 6)
- 8-3. Remove the PWR circuit board 3/4. (See Procedure 7)
- 8-4. Remove the sixteen screws marked [90] to remove the TR holder A and the TR holder B. (Fig.11)
- 8-5. Remove the six (6) screws marked [40]. The PWR circuit board 1/4 can then be removed. (Fig.12)



(Fig. 11)

[90]: Bind Head Tapping Screw-B 3.0X12 MFZN2BL (VQ0746000)



(Fig. 12)

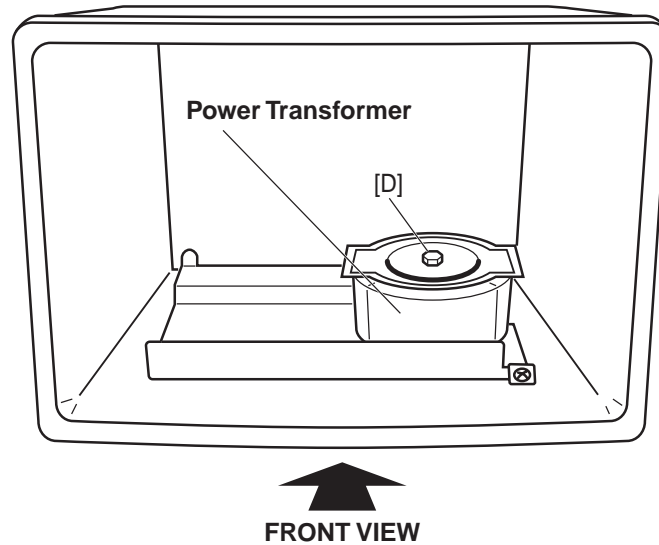
[40]: Bind Head Screw SP 3.0X8 MFZN2Y (EG330290)

### 9. Fan (Time required: about 3 min)

- 9-1. Remove the rear panel assembly. (See Procedure 5)
- 9-2. Remove the two (2) screws marked [130]. The fan can then be removed. (Fig.8)

### 10. Power Transformer (Time required: about 4 min)

- 10-1. Remove the front panel assembly. (See Procedure 1)
- 10-2. Remove the bolt marked [D]. The power transformer can then be removed. (Fig.13)



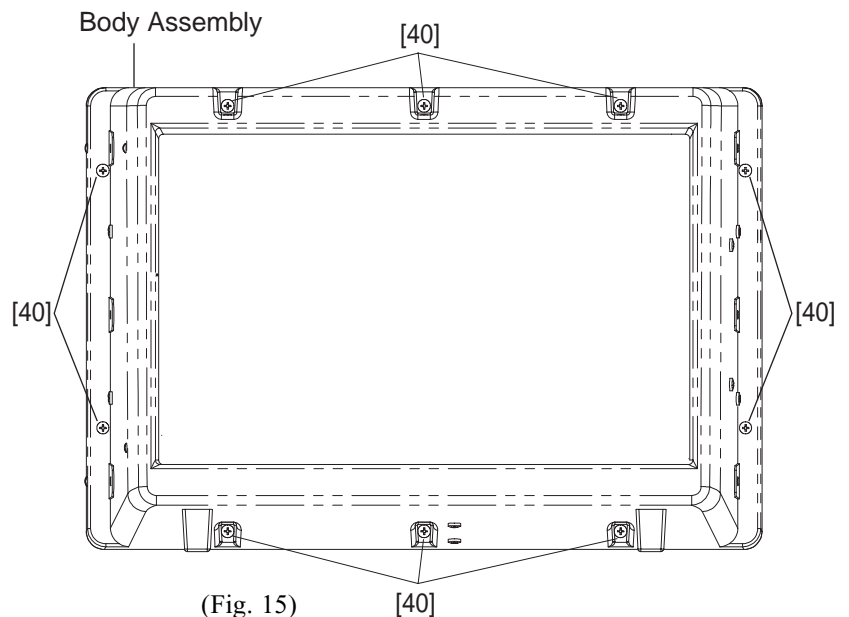
### 11. Front Frame (Time required: about 6 min)

- 11-1. Remove the front panel assembly. (See Procedure 1)
- 11-2. Remove the four (4) screws marked [50] to remove the handle assembly. (Fig.14)
- 11-3. Remove the ten (10) screws marked [40]. The front frame can then be removed. (Fig.15)



(Fig. 14)

[50]: Bind Head Screw 4.0X16 MFZN2BL (EG340110)



(Fig. 15)

[40]: Bind Head Tapping Screw-P 4.0X30 MFZN2BL (V8322700)

# LSI PIN DESCRIPTION

## • ZFX-2 (XY297A00) CPU

DSP-ZFX: IC306

PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION															
1	ED2	I/O	External Memory and I/O Data Bus	53	AXLR2	I	Audio Data Transmitt Unit 2/3 Left and Right Channel Frame Frequency Signal															
2	ED3	I/O		54	AR1	I	Audio Data Receive Unit 1 Data Input															
3	ED4	I/O		55	AR2	I	Audio Data Receive Unit 2 Data Input															
4	ED5	I/O		56	HRBCK/SA0	I	Host Interface Receive Clock / I2C Bus Address 0															
5	ED6	I/O		57	HR/SA1	I	Host Interface Data Input/ I2C Bus Address 1															
6	ED7	I/O		58	HRS/SA2	I	Host Interface Receive Data Frame Frequency Signal/ I2C Bus Address 2															
7	VSS	S		Ground	59	VSS	S	Ground														
8	VDD	S		Power Supply	60	VDD	S	Power Supply														
9	CLKM0	I		Clock Mode	61	HXBCK/SCL	I	Host Interface Transmitt Clock/ I2C Bus Clock														
10	CLKM1	I			62	HXS/SA3	I	Host Interface Transmitt Data Frame Frequency Signal/ I2C Bus Address 3														
			<table border="1"> <thead> <tr> <th></th> <th>1</th> <th>3</th> <th>6</th> <th>PLL BYPASS</th> </tr> </thead> <tbody> <tr> <td>CLKM0</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>CLKM1</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> </tr> </tbody> </table>		1	3	6	PLL BYPASS	CLKM0	0	1	0	1	CLKM1	0	0	1	1				
	1	3	6	PLL BYPASS																		
CLKM0	0	1	0	1																		
CLKM1	0	0	1	1																		
11	TMS	I	TAP(Test Access Port) Mode Select	63	/CS/SA4	I	Host Interface Chip Select/ I2C Bus Address 4															
12	TDI	I	TAP Data Input	64	HBCKS/SA5	I	HRBCK/HXBCK Active Edge Select/ I2C Bus Address 5															
13	TCK	I	TAP Clock	65	I2CSEL	I	Host Interface Mode Select															
14	CLKIN	I	Master Clock	66	VSS	S	Ground															
15	VSS	S	Ground	67	VDD	S	Power Supply															
16	VDD	S	Power Supply	68	AXBC1	I	Audio Data Transmitt Unit 1 bit Clock															
17	CLKO	O	Machine Clock Output	69	AXBC2	I	Audio Data Transmitt Unit 2/3 bit Click															
18	EA12/ED8	I/O	External SRAM and ROM Address Bus/ External DRAM and I/O Data Bus	70	AXLR1	I	Audio Data Transmitt Unit 1 Left and Right Channel Frame Frequency Signal															
19	EA13/ED9	I/O		71	DIVS	O	Machine Clock Output then 8 min.															
20	EA14/ED10	I/O		72	/LAV	O	Ruch ALU Overflow Frag Output															
21	EA15/ED11	I/O		73	/LMV	O	Ruch MAC Overflow Frag Output															
22	VSS	S		Ground	74	/DRDY	O/Z	Host Interface Transmitt Data Ready Frag Output														
23	VDD	S	Power Supply	75	EMU0	I/O/Z	Emurator Interrupt 0															
24	EA16/ED12	I/O	External SRAM and ROM Address Bus/ External DRAM and I/O Data Bus	76	EMU1	I/O/Z	Emurator Interrupt 1															
25	EA17/ED13	I/O		77	TDO	O/Z	TAP(Test Access Port) Data Output															
26	EA18/ES14	I/O		78	DIV512	O	Machine Clock then512 min.															
27	EA19/ED15	I/O		79	ARLR1	I	Audio Data Receive Unit 1 Left and Right Channel Frame Frequency Signal															
28	EA4/ED16	I/O		External Memory Address Bus/ External I/O Data Bus	80	ARLR2	I	Audio Data Receive Unit 2 Left and Right Channel Frame Frequency Signal														
29	EA5/ED17	I/O	81		HDIR/SA6	I	Host Interface Data Format Select/ I2C Bus Address 6															
30	EA6/ED18	I/O	82		SEL5V3V	I	Input Level Control															
31	EA7/ED19	I/O	83		/MUTE	I	Mute Control															
32	VSS	S	Ground		84	/TRST	I	TAP(Test Access Port) Reset														
33	VDD	S	Power Supply	85	/RS	I	Hardware Reset															
34	EA8/ED20	I/O	External Memory Address Bus/ External I/O Data Bus	86	VSS	S	Ground															
35	EA9/ED21	I/O		87	VDD	S	Power Supply															
36	EA10/ED22	I/O		88	/IOE	O	External I/O Enable															
37	EA11/ED23	I/O		89	/RAS/SRCS	O	External DRAM Low Address Strove/External SRAM Chip Select															
38	TEST0	I		Test Mode Control	90	/CAS/SROE	O	External DRAM Culumn Address Strove/External SRAM Output Enable														
39	TEST1	I	91		/ROME	O	External ROM Enable															
40	TEST2	I	92		/WE	O	External Memory and I/O Wright Enable															
41	TEST3	I	93		EA0	O	External Memory and I/O Address Bus															
42	/BIO	I	94		EA1	O																
43	/INT1	I	95	EA2	O																	
44	ARBC1	I	Separate Control Input Interrupt 1	96	EA3	O	Ground															
45	ARBC2	I	Audio Data Receive Unit 1 bit Clock	97	VSS	S																
46	AX1	O	Audio Data Transmitt Unit 1 Data Output	98	VDD	S		Power Supply														
47	AX2	O	Audio Data Transmitt Unit 2 Data Output	99	ED0	I/O	External Memory and I/O Data Bus															
48	AX3	O	Audio Data Transmitt Unit 3 Data Output	100	ED1	I/O																
49	VSS	S	Ground																			
50	VDD	S	Power Supply																			
51	HX/SDA	I/O/Z	Host Interface Data Output/I2C Bus Data																			
52	/EMPTY	O/Z	CMEM Update Buffer and HR Resistor Empty Flag Output																			

## ● UPD78082GB-XXX (XY296A00) MCU

DSP-ZFX: IC303

PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	P12/ANI2	I/O	8 bits input/output port./A/D converter analog input.	23	NC	-	Not connect.
2	P13/ANI3	I/O	8 bits input/output port./A/D converter analog input.	24	P32	I/O	Port 3. 8 bits input/output port.
3	P14/ANI4	I/O	8 bits input/output port./A/D converter analog input.	25	P33	I/O	Port 3. 8 bits input/output port.
4	P15/ANI5	I/O	8 bits input/output port./A/D converter analog input.	26	P34	I/O	Port 3. 8 bits input/output port.
5	P16/ANI6	I/O	8 bits input/output port./A/D converter analog input.	27	P35/PCL	I/O	Port 3. 8 bits input/output port./Clock output.
6	P17/ANI7	I/O	8 bits input/output port./A/D converter analog input.	28	P36/BUZ	I/O	Port 3. 8 bits input/output port./Buzzer output.
7	P72/SCK2/ASCK	I/O	Port 7. 3 bits input/output port./Serial clock input/output of serial interface./Serial clock input for asynchronous serial interface.	29	P37	I/O	Port 3. 8 bits input/output port.
8	P71/SO2/TXD	I/O	Port 7. 3 bits input/output port./Serial data output for serial interface./Serial data output for asynchronous serial interface.	30	P00	I	Input only
9	P70/SI2/RXD	I/O	Port 7. 3 bits input/output port./Serial data input of serial interface./Serial data input for asynchronous serial interface	31	P01/INTP1	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
10	P101/T16/T06	I/O	Port 10. 2 bits input/output port./External count clock input to 8 bits timer(TM6)./8 bits timer output.	32	P02/INTP2	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
11	P100/T15/T05	I/O	Port 10. 2 bits input/output port./External count clock input to 8 bits timer(TM5)./8 bits timer output.	33	P03/INTP3	I/O	4 bits input/output port./Effective edge (Rising edge, falling edge, both rising and falling edges) specifiable external interrupt input.
12	P50	I/O	Port 5. 8 bits input/output port.	34	NC	-	Not connect
13	P51	I/O	Port 5. 8 bits input/output port.	35	RESET	I	System reset input
14	P52	I/O	Port 5. 8 bits input/output port.	36	IC(VPP)	-	Internal connect
15	P53	I/O	Port 5. 8 bits input/output port.	37	X2	-	Main system clock oscillator X'tal
16	P54	I/O	Port 5. 8 bits input/output port.	38	X1	I	Main system clock oscillator X'tal
17	VSS	I/O	Port 5. 8 bits input/output port.	39	VDD	-	Power Supply
18	P55	I/O	Port 5. 8 bits input/output port.	40	AVDD	-	A/D Converter Analog Power Supply
19	P56	I/O	Port 5. 8 bits input/output port.	41	AVREF	I	A/D Converter Power Supply Input
20	P57	I/O	Port 5. 8 bits input/output port.	42	AVSS	-	A/D Converter ground
21	P30	I/O	Port 3. 8 bits input/output port.	43	P10/ANI0	I/O	8 bits input/output port./A/D converter analog input.
22	P31	I/O	Port 3. 8 bits input/output port.	44	P11/ANI1	I/O	8 bits input/output port./A/D converter analog input.

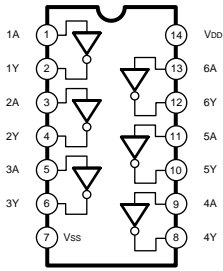
## ● PCM3001E/2K (X0053A00) ADA

DSP-ZFX: IC305

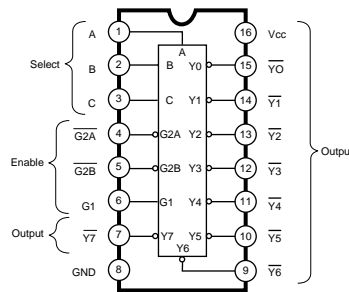
PIN No.	NAME	I/O	FUNCTION	PIN No.	NAME	I/O	FUNCTION
1	VINL	I	ADC Analog Input, Lch	15	VOU TL	O	DAC Analog Output, Lch
2	Vcc1		ADC Analog Power Supply	16	LRCIN	I	Sampling Clock Input (fs)
3	AGND1		ADC Analog GND	17	BCKIN	I	Bit Clock Input
4	VREFL		ADC Reference decouple, Lch	18	DIN	I	Audio Data Input
5	VREFR		ADC Reference Decouple, Rch	19	DOU T	O	Audio Data Output
6	VINR	I	ADC Analog Input, Rch	20	XTI	I	Crystal Oscillator Input, External System Clock Input
7	CINPR		ADC Anti-aliasing Filter Capacitor (+), Rch	21	XTO	O	Crystal Oscillator Output
8	CINN R		ADC Anti-aliasing Filter Capacitor (-), Rch	22	CLKIO	I/O	Crystal Oscillator Buffer Output, External System Clock Input
9	CINNL		ADC Anti-aliasing Filter Capacitor (-), Lch	23	VDD		Digital Power Supply
10	CINPL		ADC Anti-aliasing Filter Capacitor (+), Rch	24	DGND		Digital GND
11	VCOM		DAC Center Voltage Decouple	25	FMT2	I	Audio Data Format 2 (Pull up to 70k ohm typical)
12	VOU TR	O	DAC Analog Output, Rch	26	FMT1	I	Audio Data Format 1 (Pull up to 70k ohm typical)
13	AGND2		DAC Analog GND	27	FMT0	I	Audio Data Format 0 (Pull up to 70k ohm typical)
14	Vcc2		DAC Analog Power Supply	28	RSTB	I	Reset Input, Active "L" (Pull up to 70k ohm typical)

## IC BLOCK DIAGRAM

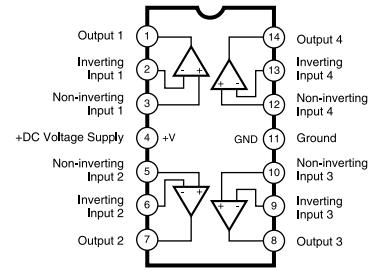
- **74HCU04DT** (XZ110A00)  
INVERTER  
DSP-ZFX: IC302



- **TC74HC138AFEL** (XW762A00)  
3 to 8 Demultiplexer  
MIX66: IC902



- **NJM2060M(TE2)OP** (XM560A00)  
Quad Operational Amplifier  
MIX66: IC803, IC804, IC805, IC806

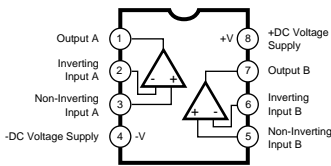


- **TL072CPSR** (XV423A00)
- **NJM2068MD-T1** (XJ553A00)
- **NJM4558MT-1** (IG103520)

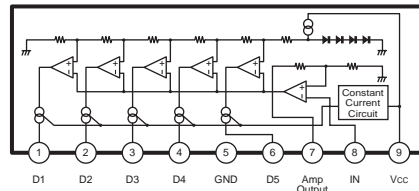
### Dual Operational Amplifier

MIX66: IC101, IC102, IC301, IC302  
IC501, IC601, IC603, IC703  
IC704, IC705, IC706, IC707  
IC807, IC901, IC903

DSP-ZFX: IC304



- **LB1403N** (XZ348A00)  
LED Driver  
MIX66: IC702, IC802

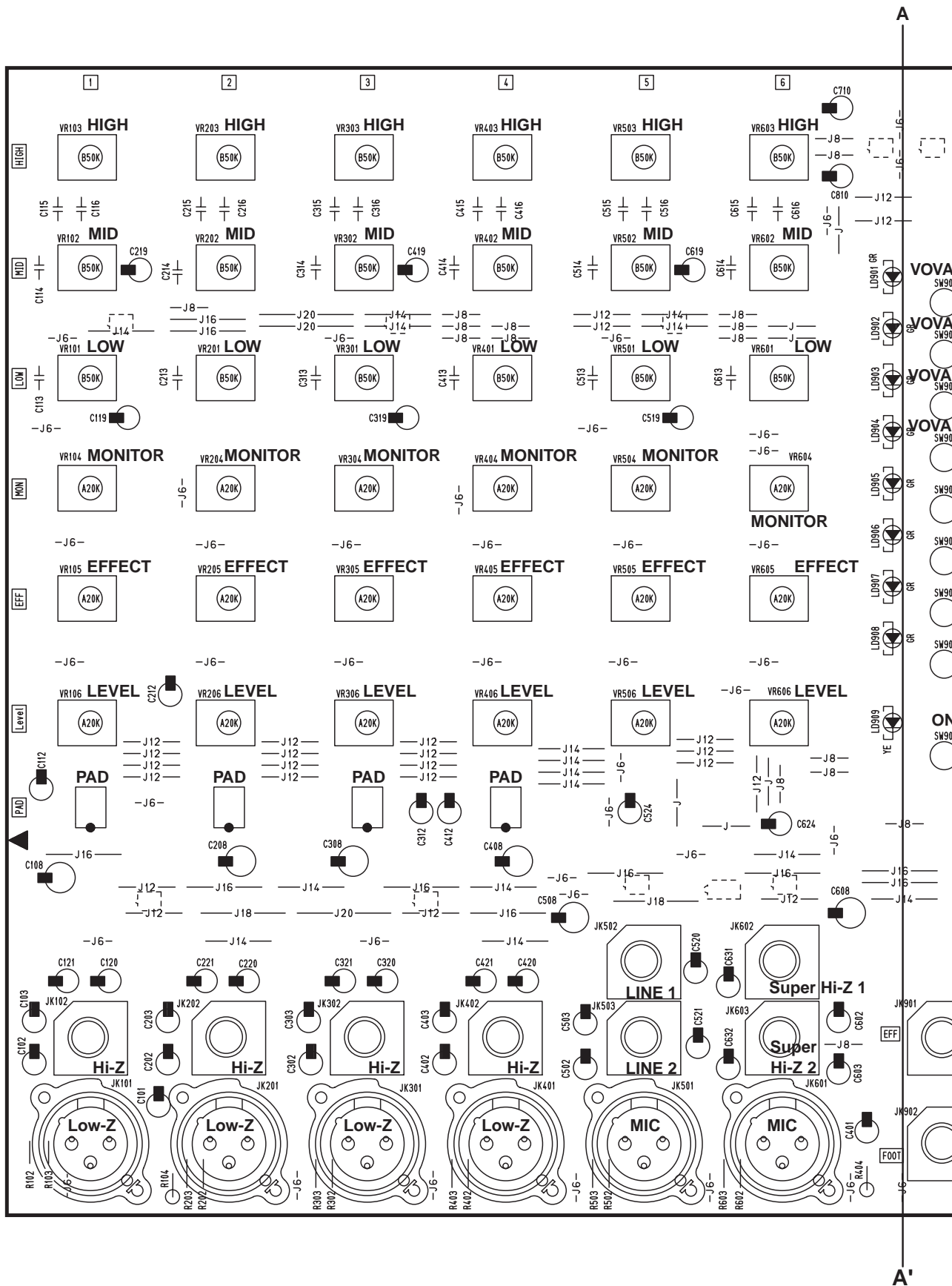


## ■ CIRCUIT BOARDS

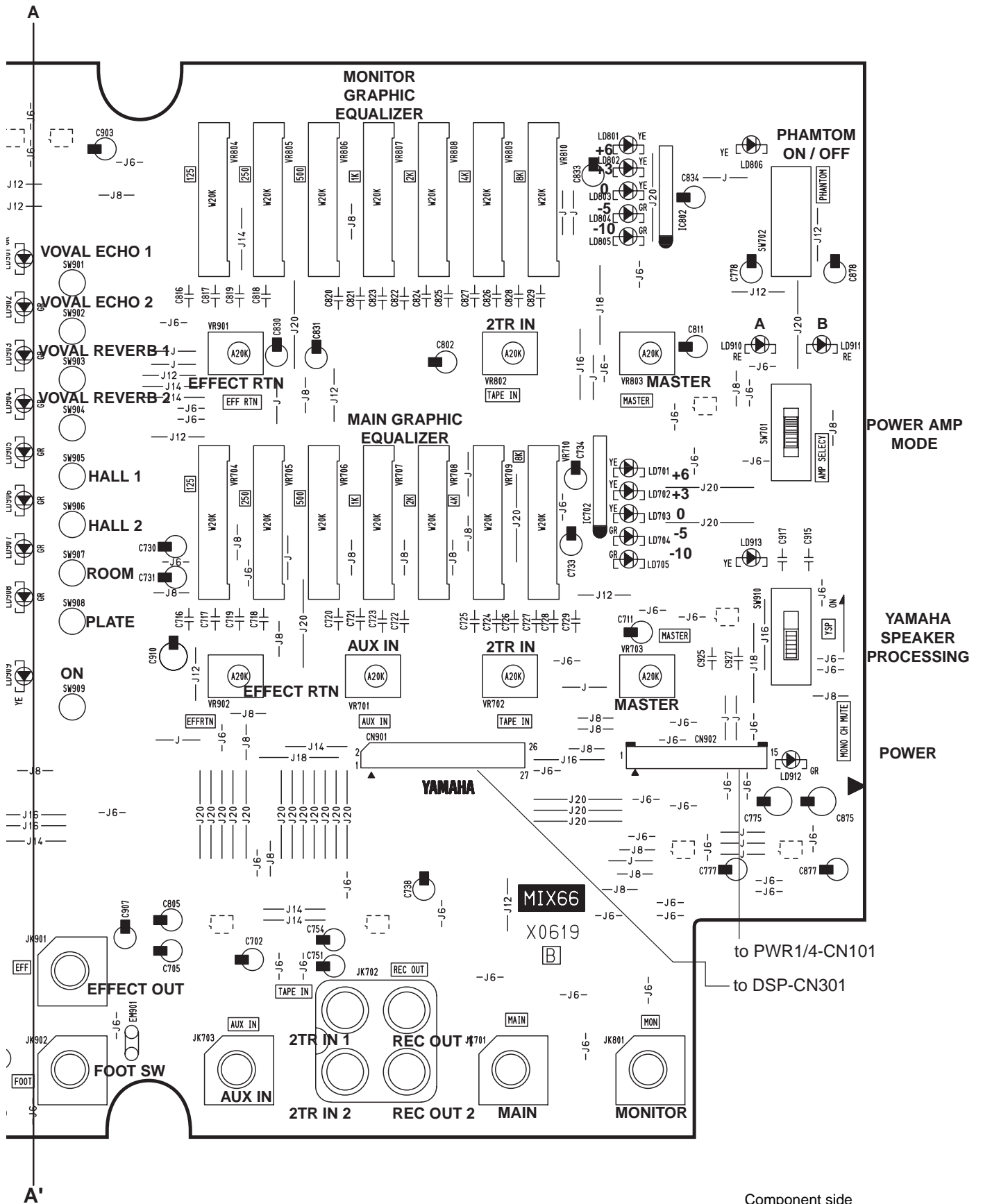
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PWR 4/4 CIRCUIT BOARD (COMPONENT SIDE) .....	32

• MIX66 Circuit Board



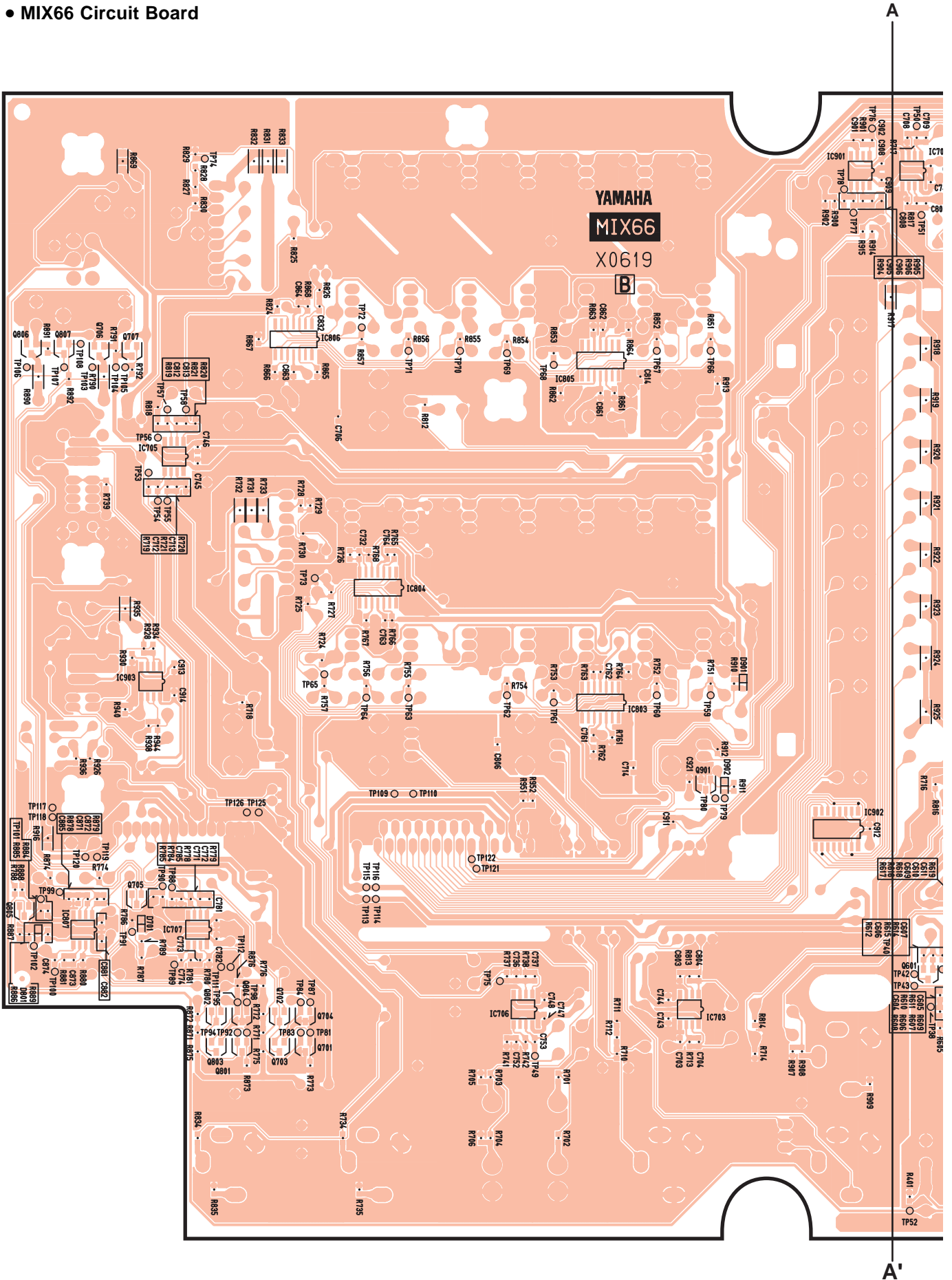


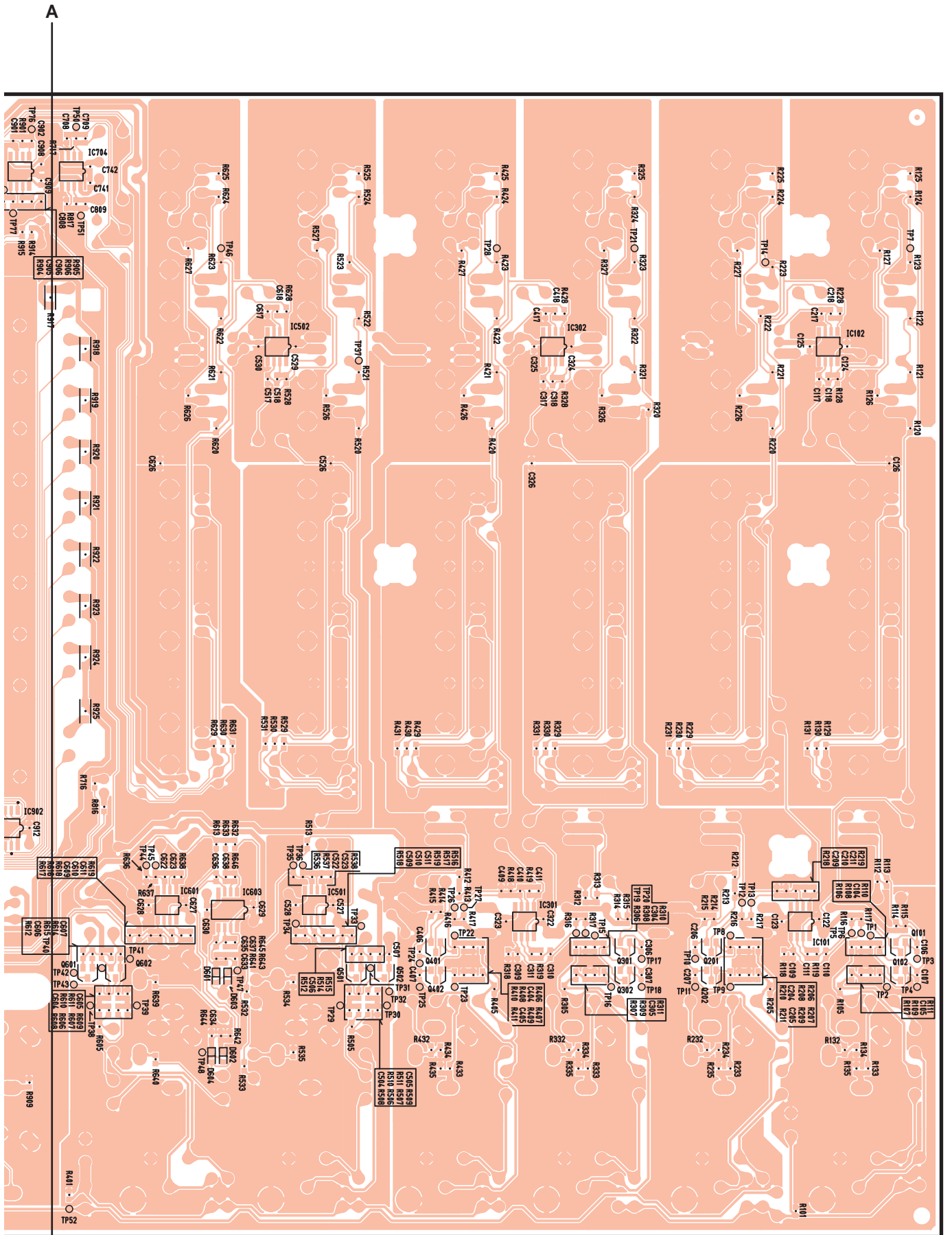


3NA-V826690

Component side

• MIX66 Circuit Board

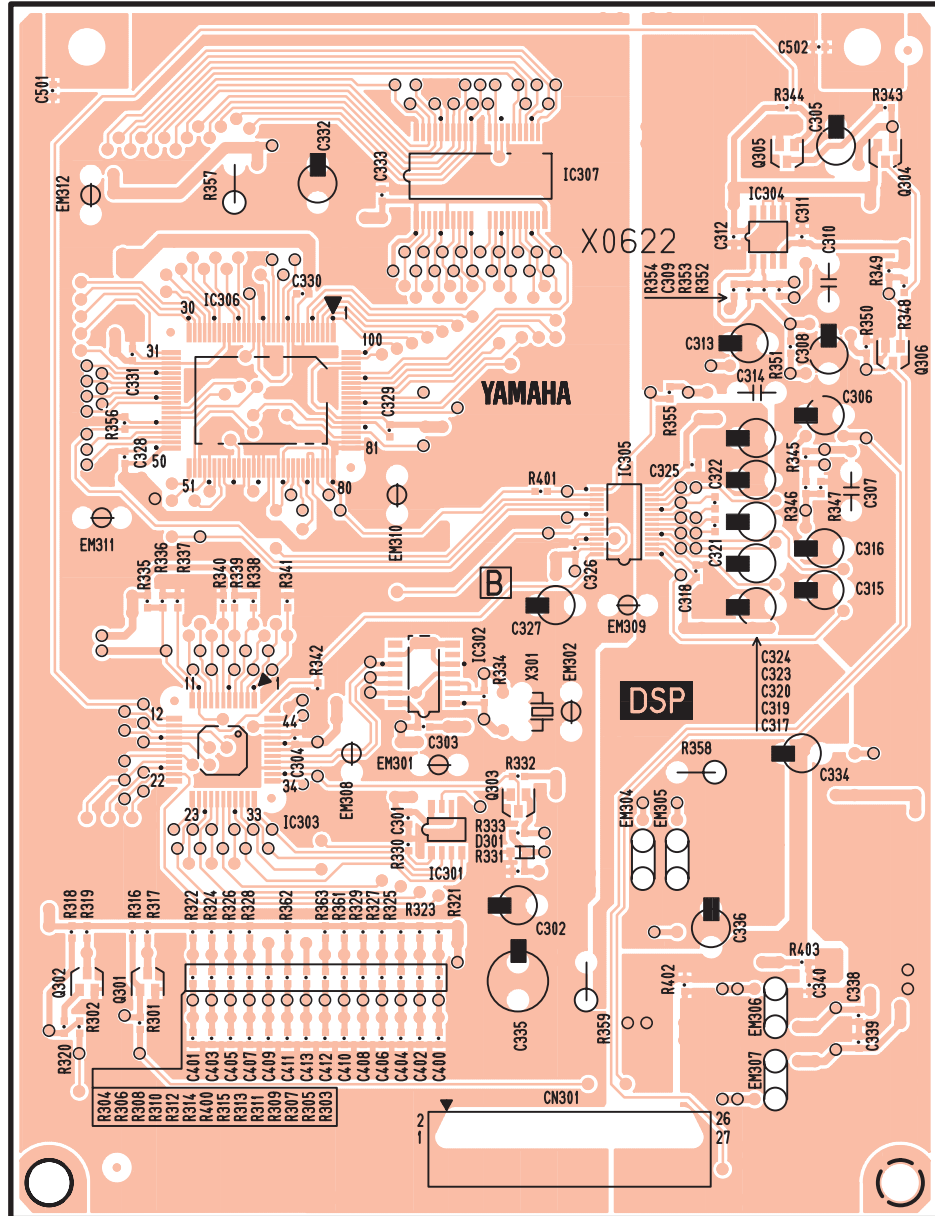




A' 3NA-V826690

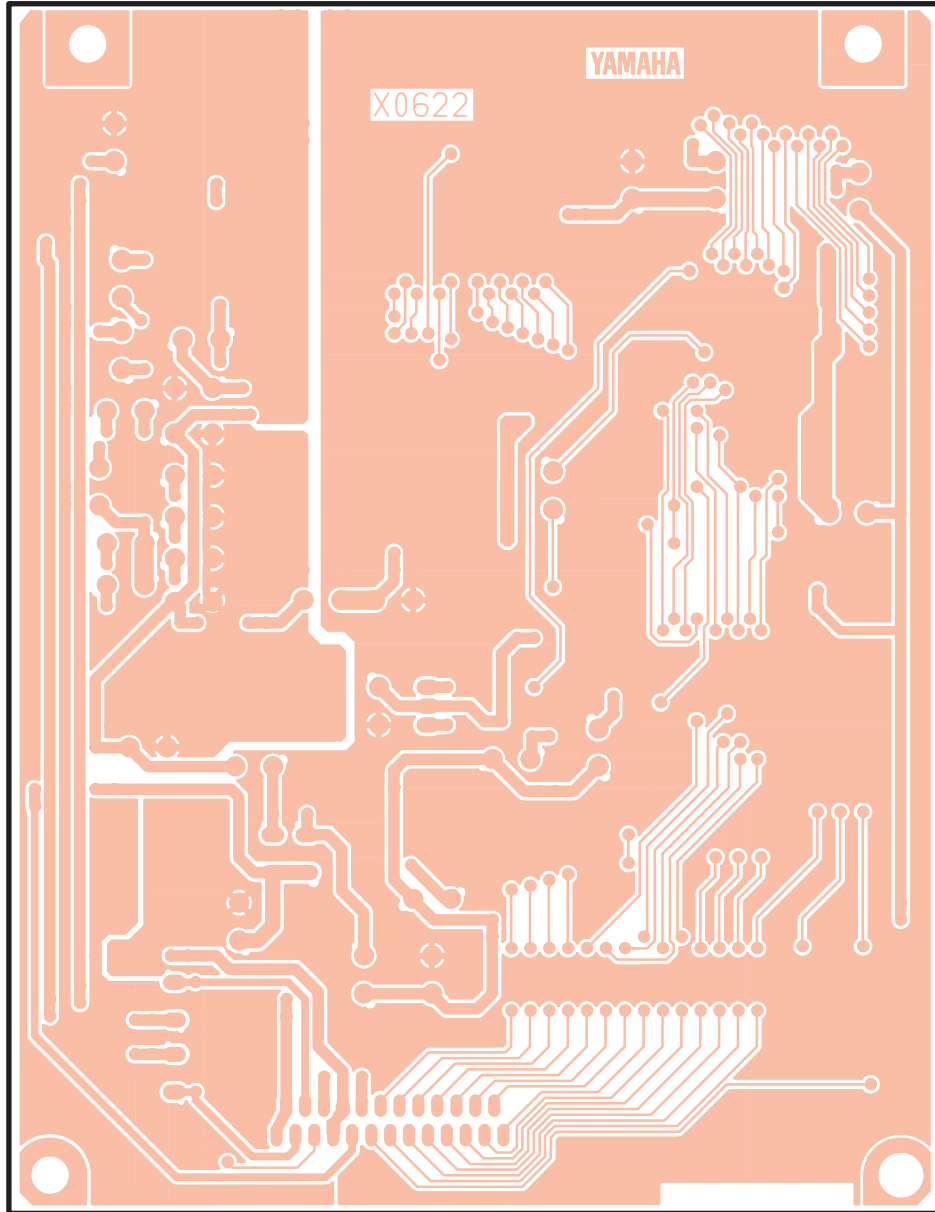
Pattern side

• DSP Circuit Board



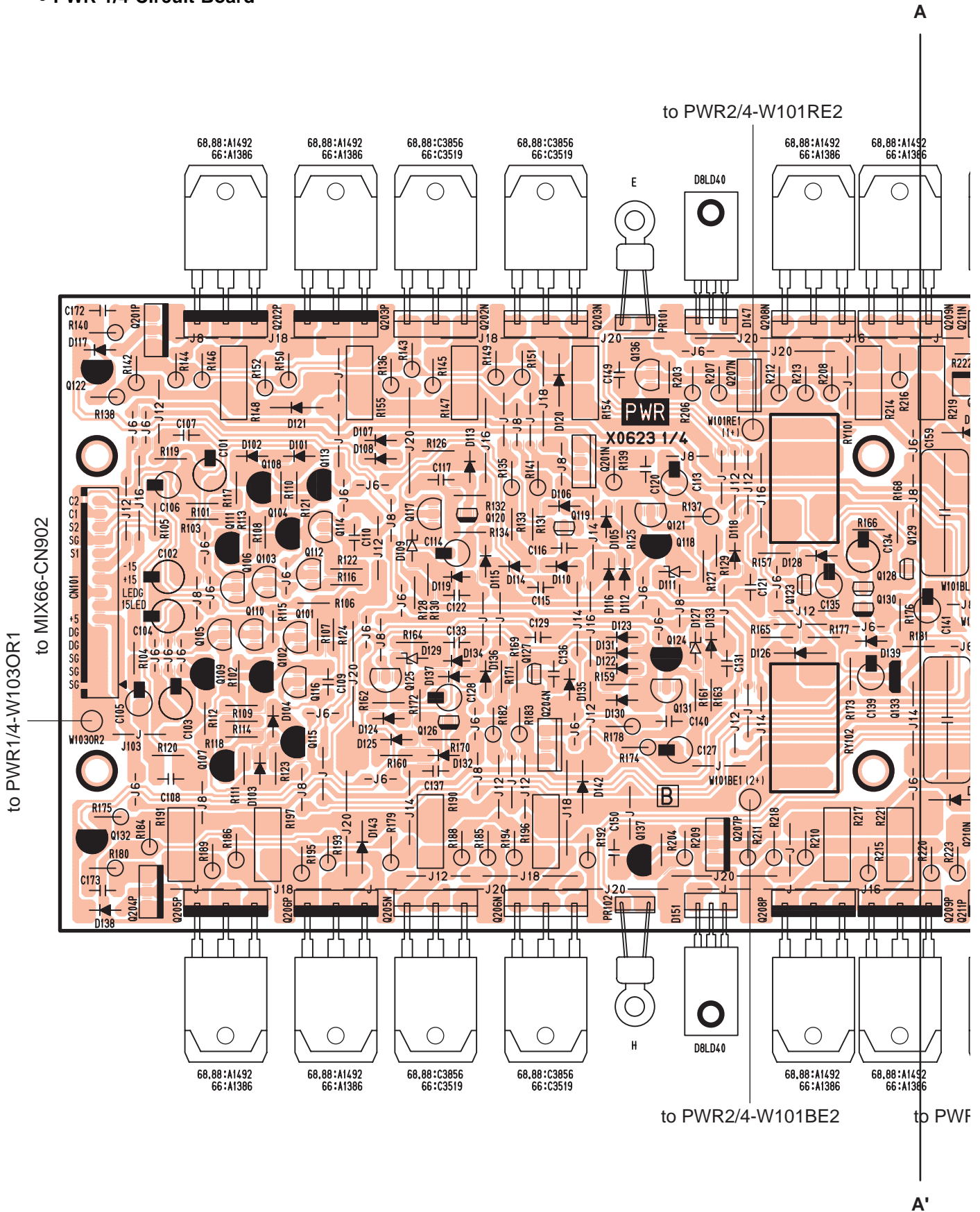
to MIX66-CN901

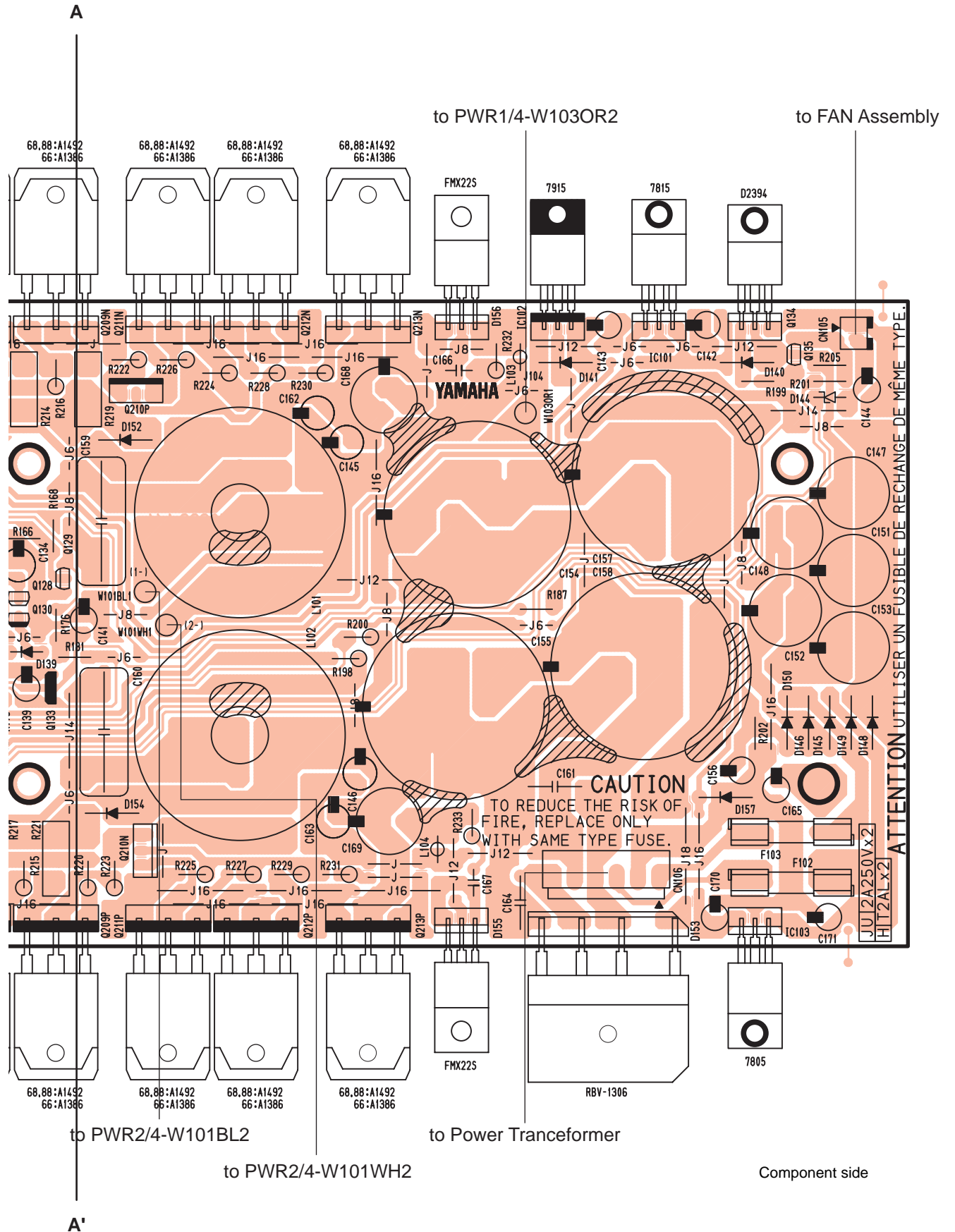
Component side



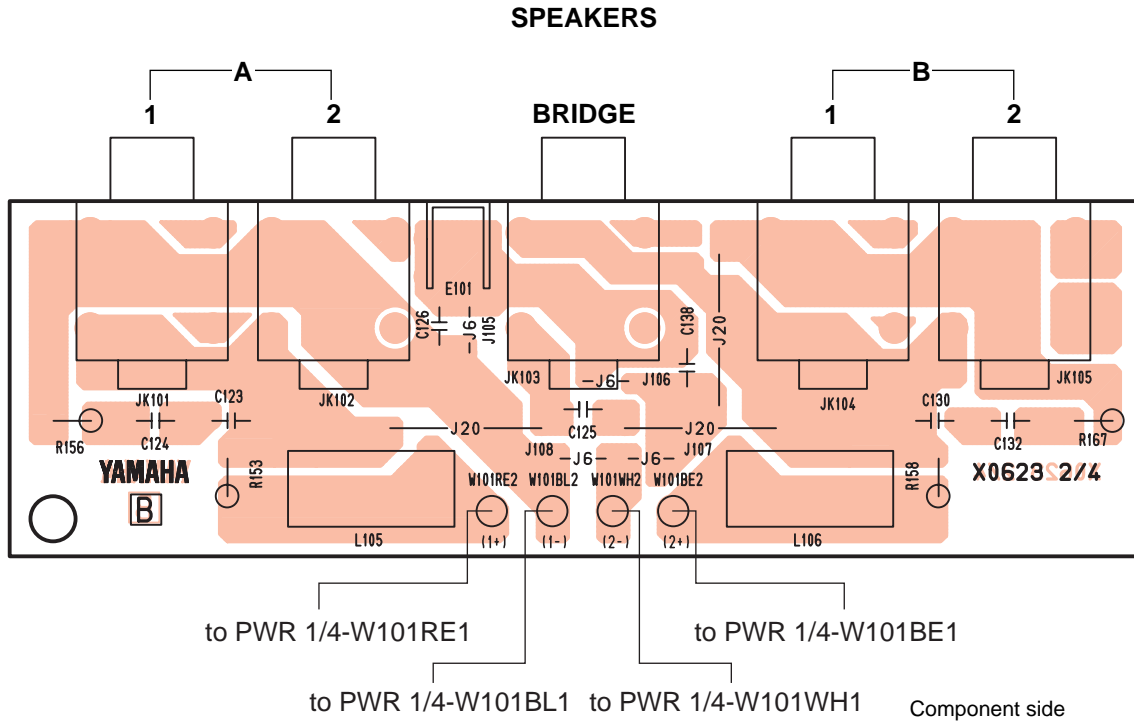
Pattern side

• PWR 1/4 Circuit Board

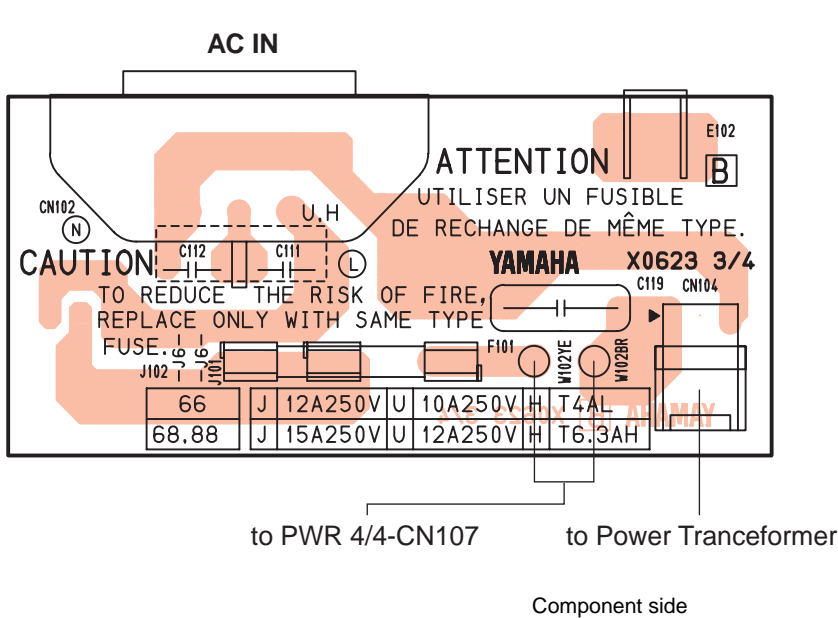




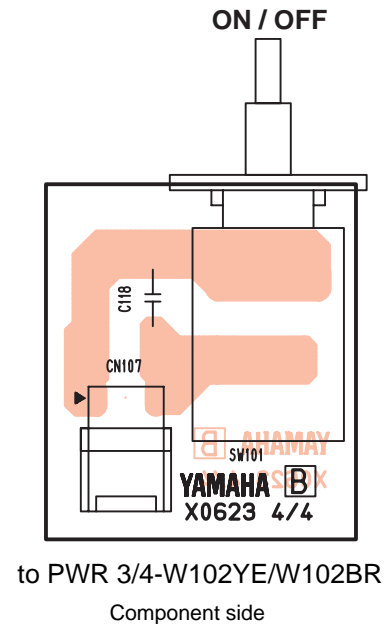
• PWR 2/4 Circuit Board



• PWR 3/4 Circuit Board



• PWR 4/4 Circuit Board



PWR 2/4: 3NA-V826900 ▲  
 PWR 3/4: 3NA-V826900 ▲  
 PWR 4/4: 3NA-V826900 ▲



# INSPECTIONS

## 0. PREPARATION

(1) Measuring instruments

- Oscillator (Ballance output type, Output impedance 150Ω)
- Oscilloscope (Input impedance 100kΩ)
- Level meter (Input impedance 100kΩ)
- Distortion Meter

(2) Notes for measuring

- Noise level must be measured by using DIN AUDIO FILTER.
- 0dB is equal to 0.775V.

## 1. Power Indicator Check

Confirm that the power indicator LED lights up while the power is ON.

## 2. Mixer Check

### 2.1 Preparation

- Except otherwise indicated, input signal should be 1kHz sine curve and output impedance of signal source should be 150Ω.
- Connect the load of 10kΩ to MAIN OUT, MONITOR OUT, EFFECT OUT and REC OUT terminal.
- Set each control as follows.

CH INPUT 1-4

EQ (HIGH, MID, LOW) level control:	CENTER
MONITOR level control:	MAX
EFFECT level control:	MAX
LEVEL control:	MAX
PAD switch:	OFF

CH INPUT 5-6

EQ (HIGH, MID, LOW) level control:	CENTER
MONITOR level control:	MAX
EFFECT level control:	MAX
LEVEL control:	MAX

EFFECT

DIGITAL EFFECT ON switch:	OFF
---------------------------	-----

MAIN

GRAPHIC EQUALIZER (7 band) fader:	CENTER
EFFECT RTN level control:	MAX
AUX IN level control:	MAX
2TR IN level control:	MAX
MASTER (MAIN) level control:	MAX

MONITOR

GRAPHIC EQUALIZER (7 band) fader:	CENTER
EFFECT RTN level control:	MAX
2TR IN:	MAX
MASTER (MAIN) level control:	MAX

PHANTOM switch: OFF

YAMAHA SPEAKER PROCESSING switch: OFF

POWER AMP switch: MAIN-MONITOR

## 2.2 Gain Check

On condition of 2.1, confirm that the output level of each terminal meets the table 2.2-1.

Table 2.2-1 [unit: dBs]

INPUT	INPUT LEVEL	MAIN OUT(L,R)	MONITOR OUT	EFFECT OUT	REC OUT
Low-Z	-62	+4±2	+4±2	+4±2	-13.8±2
MIC	-32 (PAD ON)				
Hi-Z	-52	+4±2	-	-	-
LINE	-22	+4±2	-	-	-
Super Hi-Z	-42	+4±2	-	-	-
AUX	-22	+4±2	-	-	-
2TR	-22	+4±2	-	-	-

## 2.3 Frequency Characteristic Check

At each terminal of the Table 2.2-1, confirm that the output level for 20Hz, 20kHz signal are within +1, -3dB from the level for 1kHz signal.

## 2.4 EQ Response Characteristic Check

On condition of 2.1, set the LOW, MID, HIGH controls according to the table 2.4-1, and measure the output level of MAIN OUT and MONITOR OUT.

Then confirm that output level variations from center click position meet the table 2.4-1.

When output level does not meet the table, change the input frequency until the output level meets the table.

If the frequency variation is within ±20% of the rated value, the result can be regarded as OK.

Table 2.4-1 [unit: dB]

EQ	VR Setting	INPUT FREQUENCY	RANGE OF VARIATION
HIGH	MAX	10kHz	+12±2
	MIN		-12±2
MID	MAX	2.5kHz	+14±2
	MIN		-14±2
LOW	MAX	100Hz	+12±2
	MIN		-12±2

## 2.5 GEQ Response Characteristic Check

On condition of 2.1, set the GEQ faders to MIN or MAX, and measure the output levels of MAIN OUT and MONITOR OUT.

Then confirm that output level variations from center click position meet the table 2.5-1.

When the output level does not meet the table, change the input frequency until the output level meets the table.

If the frequency variation is within ±20% from the rated value, the result can be regarded as OK.

Table 2.5-1 [unit: dB]

		125	250	500	1k	2k	4k	8k
INPUT FREQUENCY		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
Variations	(for fader MAX)	+12±2						
	(for fader MIN)	-12±2						

## 2.6 LED Meter Check

When the output level of MAIN OUT and MONITOR OUT meets the Table 2.6-1, confirm that the corresponding LED meter starts to light up.

Table 2.6-1 [unit: dBs]

LED	+6	+3	0	-5	-10
OUTPUT LEVEL	+10±2	+7±2	+4±2	-1±2	-6±2.5

## 2.7 Distortion Rate Check

On condition of 2.1, set the INPUT and MASTER volume for each terminal to nominal position.

Then, confirm that the distortion rate is within 0.3% when the output level is +14dBs. (except REC OUT)

## 2.8 Maximum Output Level Check

At MAIN OUT, MONITOR OUT, EFFECT OUT terminals on condition of 2.7, confirm that the output level of +20dBs can be gained with the distortion rate less than 1%.

## 2.9 EIN Check

Note: This measurement should be performed by using DIN AUDIO FILTER.

On condition of 2.1, set the LEVEL control for measuring channel to maximum and set the LEVEL control for other channels to minimum.

Connect the 150Ω load between the Low-Z and the MIC of input channel, and confirm that the noise level of MAIN OUT is less than -58dB.

However, less than -56dB as for CH6.

If noise level is more than the rated value, find the noise level converted from the input level for each channel.

Then confirm that the noise level is less than -124dB as for CH1-5, and less than -122dB as for CH6.

## 2.10 Remaining Noise Check

On condition of 2.1, set the LEVEL control of all input channels to minimum.

Set the MASTER control of MAIN and MONITOR to maximum or minimum, and measure the noise level of MAIN OUT, MONITOR OUT, and EFFECT OUT.

Then, confirm that the noise levels are less than the values shown in the table 2.10-1.

Table 2.10-1 [unit: dB]

MASTER VR	MAIN OUTPUT(L,R)	MONITOR OUTPUT	EFFECT OUT
MAX	-71	-71	-73
MIN	-88	-88	-

## 2.11 PHANTOM Check

Connect the 2.7kΩ load between the pin1 and pin2 of Low-Z or MIC, and short-circuit the pin2 and pin3 of them.

Then, confirm that the load voltage is 10±1.5V when the PHANTOM switch is ON.

## 2.12 DIGITAL EFFECT Check

- Turn on the power with VOCAL ECHO1 and ON switch pressed and held, and confirm that the ON LED blinks.
- Set EFFECT level control, LEVEL control, MASTER of MONITOR, and EFFECT of MONITOR to maximum.  
Apply -48dBs / 1kHz signal into CH6 Super Hi-Z and measure the output level of MONITOR OUT.
- Select the PROGRAM switch according to the Table 2.12-1 and confirm that the output level meets the table.

Table 2.12-1

EFFECT	OPERATION	OUTPUT level (MONITOR OUTPUT)
VOCAL ECHO 1	Press the ON switch	No output [DIN AUDIO] -48dBs
VOCAL ECHO 2	Set the LEVEL to minimum	No output [DIN AUDIO] -48dBs
VOCAL REVERB 1	-	Recognizable
VOCAL REVERB 2	-	No output [DIN AUDIO] -48dBs
HALL 1	Switch the FOOT SW	Less than -30 dBs [DIN AUDIO] or full output
HALL 2	-	No output [DIN AUDIO] -48dBs
ROOM	-	Decays 4.2±1 dBs from the full output
PLATE	-	Full output; 10±3 dBs

- When each PROGRAM switch is pressed, confirm that the corresponding LED lights up.
- Apply the music source (vocal etc), and confirm the effect aurally.

### 2.13 Stability Check

Note: This measurement should be performed with a load resistance connected to power amplifier output. (See 3.1.1)

- At each input terminal, connect 10pF~0.1µF capacitor in parallel to the load resistance, and confirm that the system works normally without oscillation etc.
- Set all VR and EQ faders to maximum, and confirm that the system works normally. (Especially, does not oscillate when the EQ HIGH is set to maximum)

## 3. Power Amplifier Check

### 3.1 For the case that the POWER AMP switch is 'MAIN-MONITOR' or 'MAIN-MAIN'

#### 3.1.1 Preparation

- INPUT terminal: CH 5 LINE 1
- POWER AMP switch: MAIN-MAIN
- OUTPUT terminal: SPEAKERS A1, SPEAKERS B1
- Load Resistance: 4Ω (more than 300W)

Except otherwise indicated, the load resistance should be connected only for the power amplifier check.

- Set the LEVEL control of CH1-4, 6 to minimum.
- Except the above, same as the setting of 2.1.

#### 3.1.2 Power ON Mute Check

Turn on the power and confirm that the mute system is released and the relay is switched on after 2.5±1 seconds.

#### 3.1.3 Output Terminal D.C. Voltage Check

Ground input terminal and confirm that the D.C. voltage of output terminal is 0±100mV.

#### 3.1.4 Gain Check

- Apply -26dBs signal into the input terminal and confirm that the output level of 20.0±2.0dBs can be gained.
- Set the POWER AMP switch to 'MAIN-MON' and confirm that the same output level can be gained at SPEAKERSA2, B2 output.

#### 3.1.5 Frequency Response Check

- YAMAHA SPEAKERS PROCESSING Switch OFF

Apply -26dBs signal into input terminal, and confirm that the output level for 20Hz, 20kHz signal are within +1, -3dB from the level for 1kHz signal.

- YAMAHA SPEAKERS PROCESSING Switch ON

Apply 70Hz / -26dB signal into input terminal, and confirm that the output level is within 6.5±2dB from the level for 1kHz input with YAMAHA SPEAKERS PROCESSING switch OFF.

Besides, confirm that the LED lights up when YAMAHA SPEAKERS PROCESSING switch is ON and that LED goes out when the switch is OFF.

### 3.1.6 Harmonic Distortion Rate Check

Note: This measurement should be finished in 30 seconds.

- Apply 1kHz signal into input terminal, and confirm that output level of 300W/4Ω (33.0dBs) can be gained with harmonic distortion rate less than 0.5%.
- Apply 20Hz, 1kHz and 20kHz signal into input terminal, and confirm that harmonic distortion rate is less than 0.5% as for 20Hz and 1kHz, less than 0.7% as for 20kHz when output level of 150W/4Ω (30.0dBs) can be gained.

### 3.1.7 Remaining Noise Check

Set the MASTER (MAIN) and the MASTER (MONITOR) to minimum, and confirm that the noise level of output terminal is less than -65dB.

Note: Take care not to be affected by inductive noise.

This measurement should be performed by using DIN AUDIO FILTER.

### 3.1.8 Stability Check

- (1) Connect 10pF~0.47μF capacitor in parallel to the 4Ω load resistance and apply rectangle signal of 10kHz/-26dBs.

Then, confirm that overshoot and ringing are as follows.

Overshoot:  $V_p/V_o \leq 1.8$

Ringing: within 5 waves

- (2) Connect 10μH~0.47H inductor in series to the 4Ω load resistance and apply rectangle signal of 10kHz/-26dBs.

Then, confirm that overshoot and ringing meet the same condition as (1).

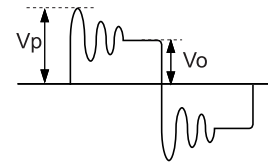
- (3) Remove the 4Ω load resistance and connect only 10pF~0.47μF capacitor as load, and apply rectangle signal of 10kHz/-26dBs.

Then confirm that the system does not oscillate.

Besides, confirm that overshoot and ringing are as follows.

Overshoot:  $V_p/V_o \leq 2.5$

Ringing: within 7 waves



### 3.1.9 Protection Circuit Check

- (1) Apply 10Hz signal until output level is saturated, and confirm that the protection circuit works and the relay does not open.
- (2) Apply 1Hz,  $V_{p-p} = 6V$  (8.7dBs) signal, and confirm that the protection circuit starts to work in 2 seconds to cut off the signal.
- (3) Stop applying the input signal, and confirm that the system automatically resumes in 5 seconds.

### 3.1.10 PC LIMITER Circuit and LIMITER Circuit Check

- (1) Connect 1Ω ( $\pm 5\%$ , 100W) load and apply -20dBs signal into input terminal.
- (2) Confirm that the protection circuit starts to work and indicator LED lights up.
- (3) Stop applying the input signal, and confirm that the system automatically resumes in 5 seconds.

### 3.1.11 LIMITER Indicator Check

Apply 1kHz/-10.8dBs signal, and confirm that LIMITER indicator lights up.

### 3.1.12 Efficiency Check

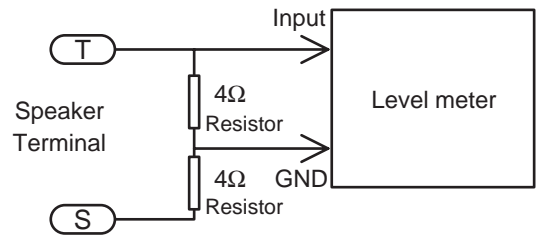
Apply 1kHz/-24dB signal into input terminal, and confirm that the primary power is  $180 \pm 50W$ .

If the primary power does not meet the rated value, adjust the input level until the output level of SPEAKERS becomes 12.2V(24.0dBs).

### 3.2 For the case that the POWER AMP switch is 'MAIN BRIDGE'

#### 3.2.1 Preparation

- POWER AMP switch: MAIN BRIDGE
- INPUT terminal: CH 5 LINE 1
- MASTER (MAIN): MAX
- OUTPUT terminal: BRIDGE
- Load Resistance:  $8\Omega$ (more than 600W)  
Except otherwise indicated, the load resistance of SPEAKER should be connected only for the amplifier check.
- LEVEL control of CH1-4, 6: MIN
- Except the above, same as the setting of 2.1



#### 3.2.2 Gain Check

Apply -26.0dB signal into input terminal, and confirm that the output level of  $22.0\pm 2$  dBs can be gained.

#### 3.2.3 Frequency Response Check

Apply -26.0dBs signal into input terminal, and confirm that the output level for 20Hz, 20kHz signal are within +1, -3dB from the level for 1kHz signal.

### 4. Miscellaneous

#### 4.1 Power Supply Voltage Variation

Change the voltage of power supply in the range of  $\pm 10\%$ , and confirm that the system works normally.







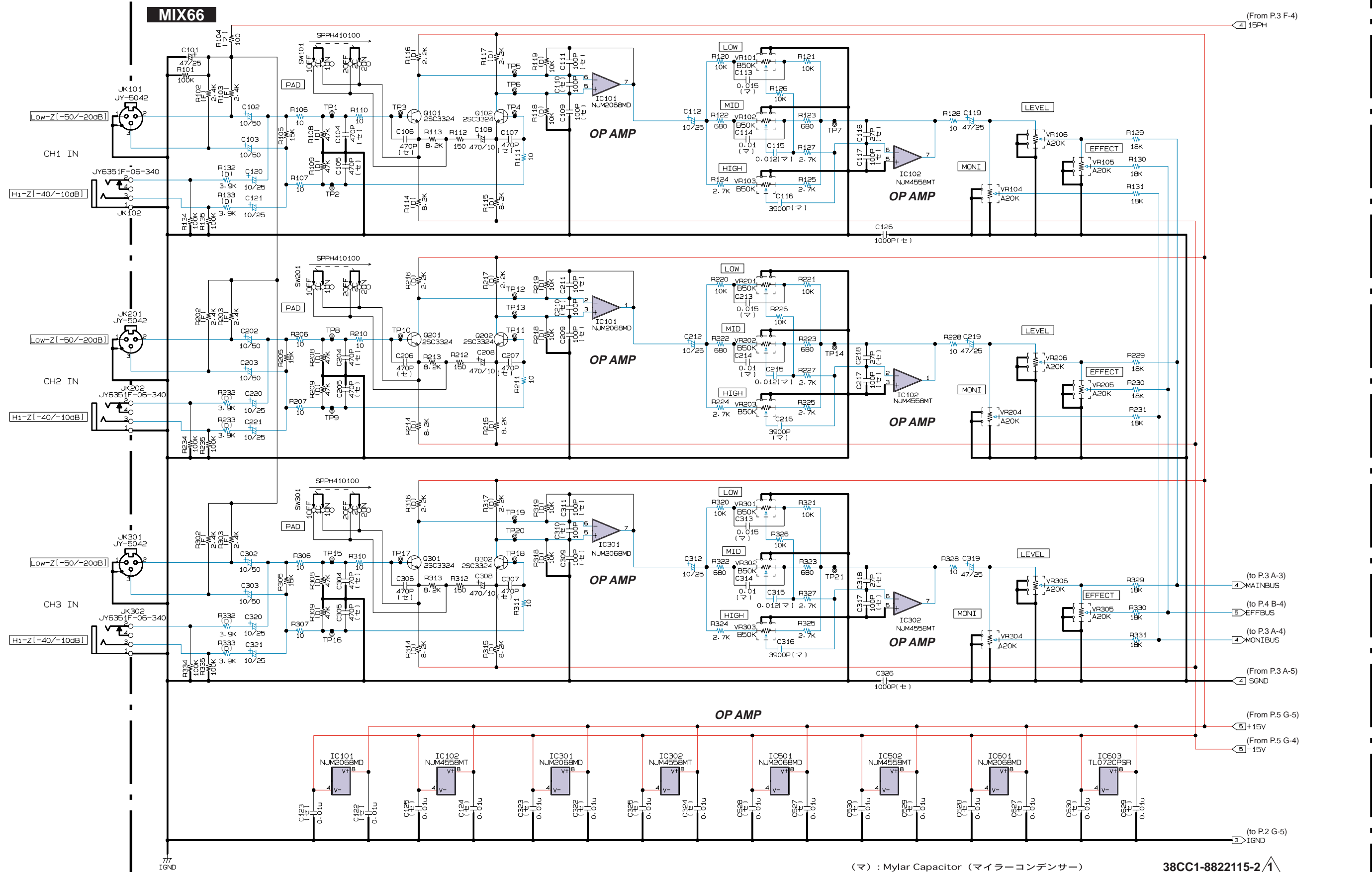








# EMX66M OVERALL CIRCUIT DIAGRAM 1/7 (MIX66 1/5)



(マ) : Mylar Capacitor (マイラーコンデンサー)  
 (セ) : Ceramic Capacitor (セラミックコンデンサー)

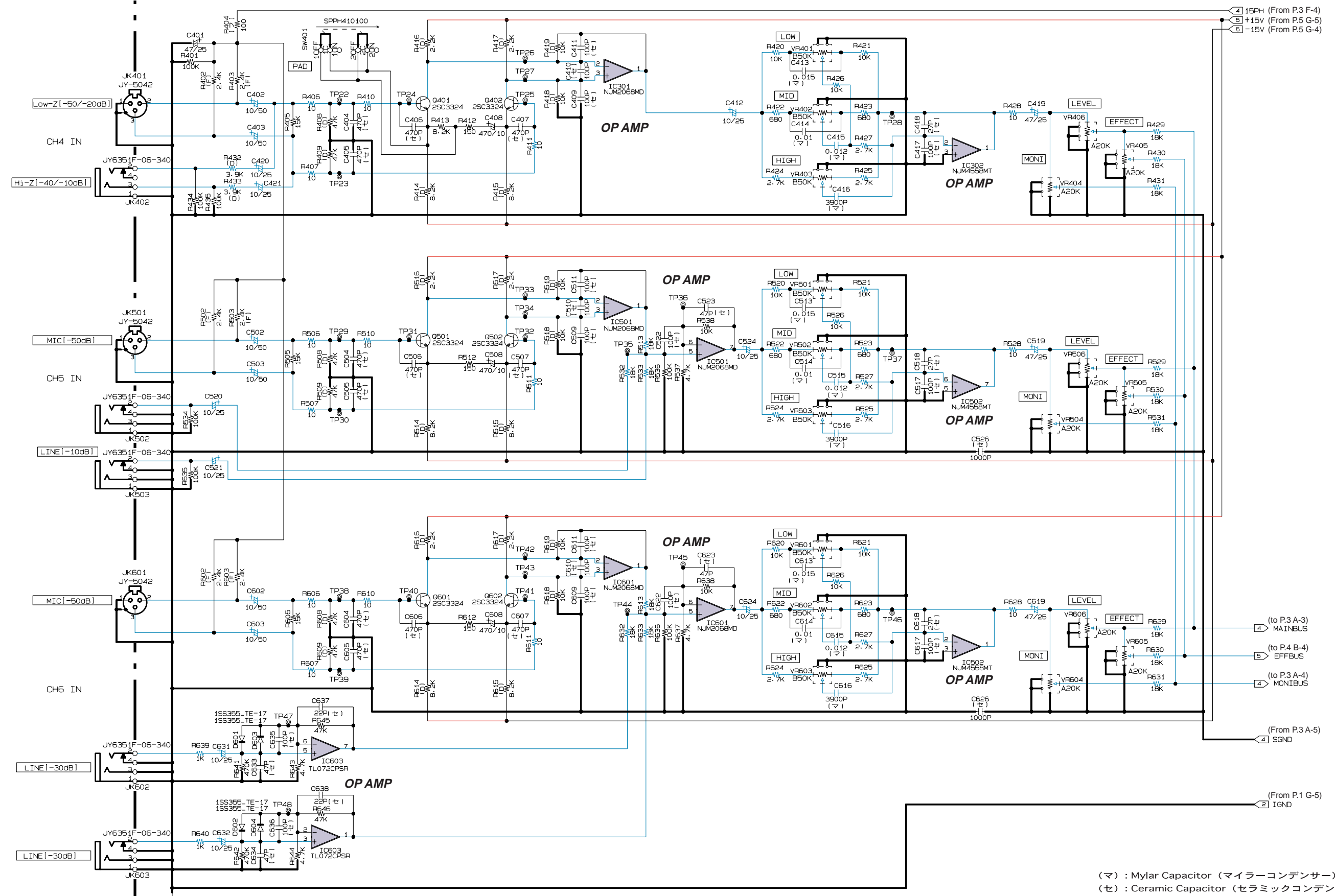
38CC1-8822115-2 1

<P.2>

EMX66M

EMX66M

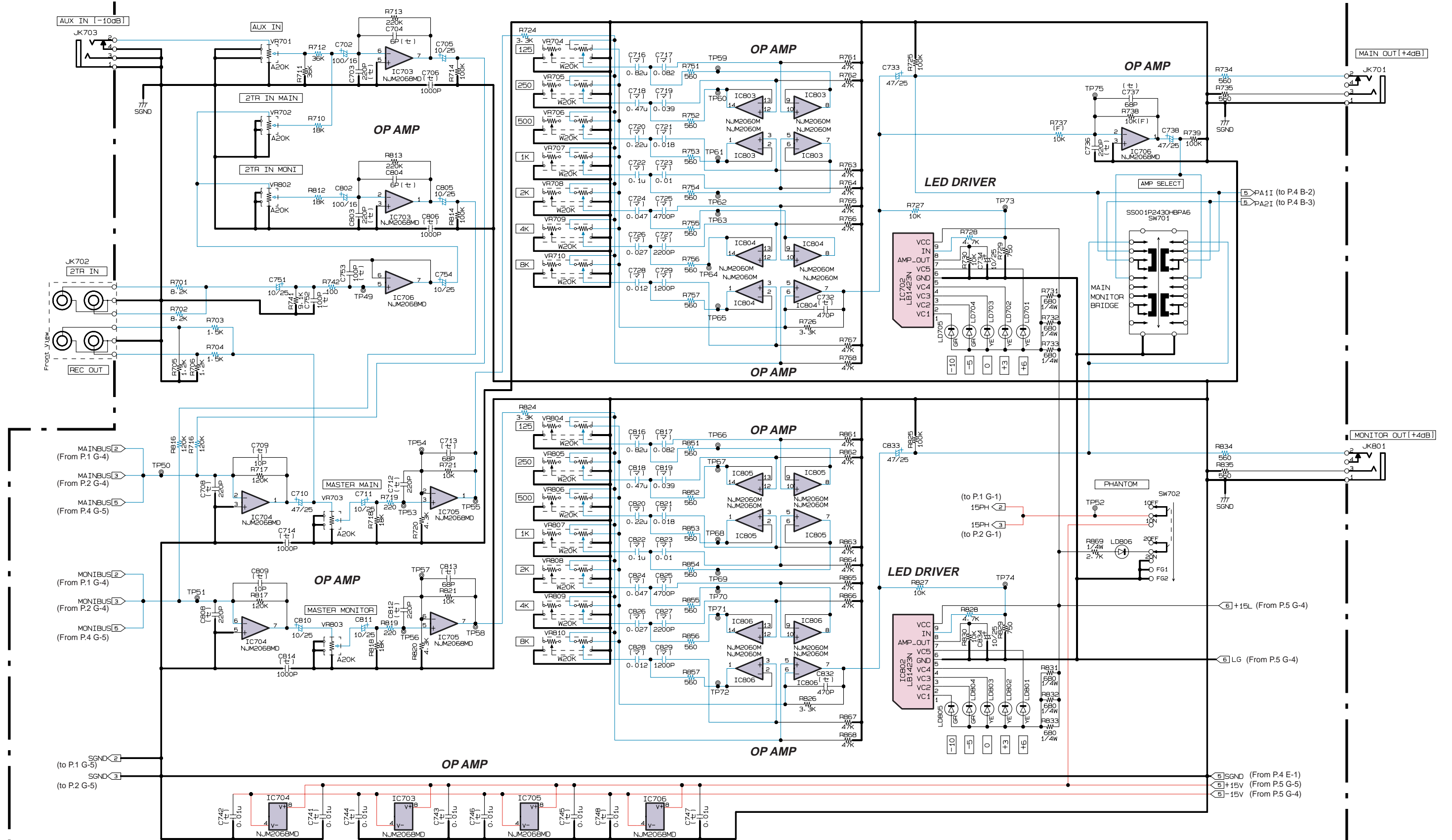
# EMX66M OVERALL CIRCUIT DIAGRAM 2/7 (MIX66 2/5)



(マ) : Mylar Capacitor (マイラーコンデンサー)  
 (セ) : Ceramic Capacitor (セラミックコンデンサー)

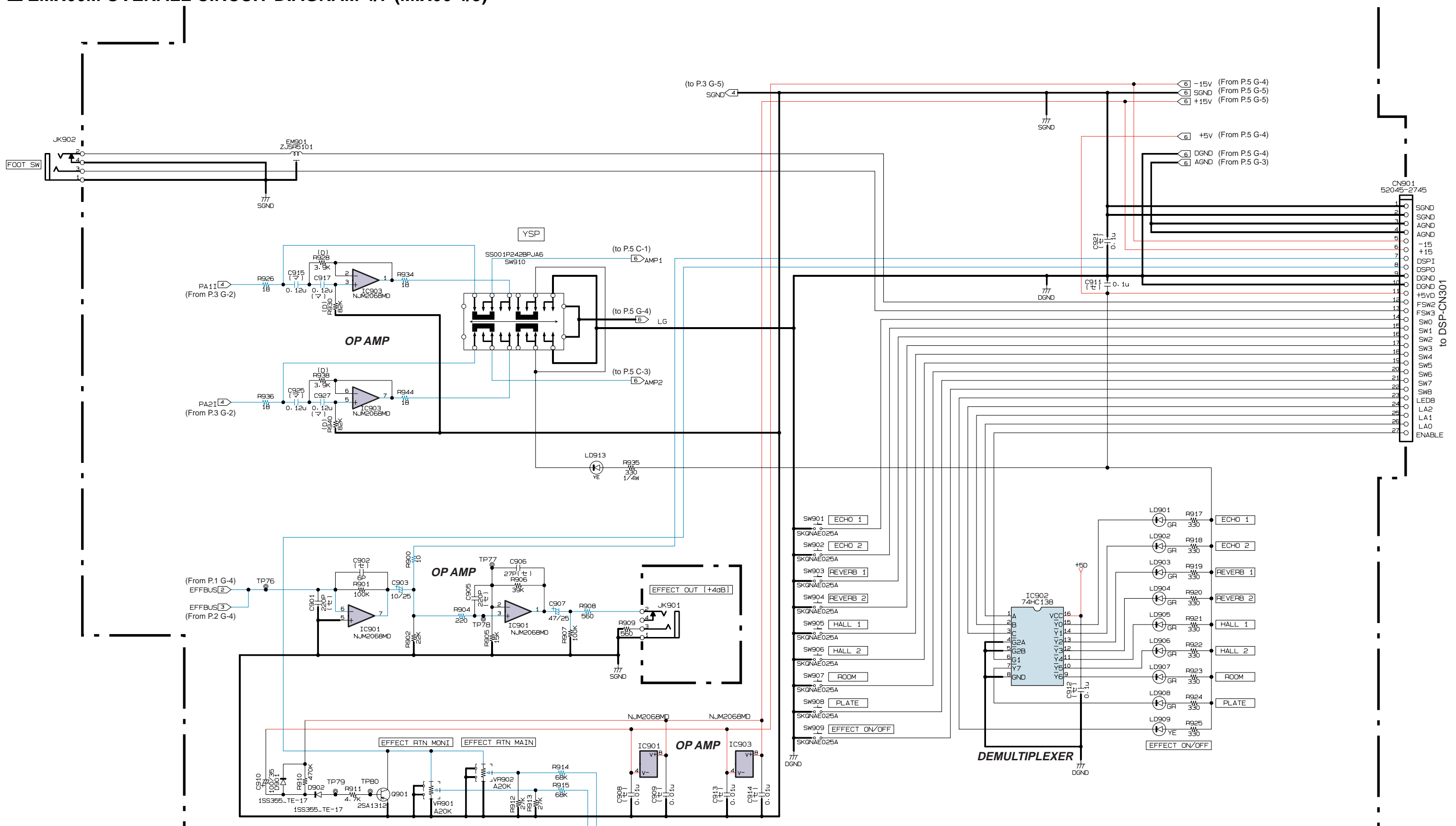
38CC1-8822115-3 1

# EMX66M OVERALL CIRCUIT DIAGRAM 3/7 (MIX66 3/5)



(マ) : Mylar Capacitor (マイラーコンデンサー)  
 (セ) : Ceramic Capacitor (セラミックコンデンサー)

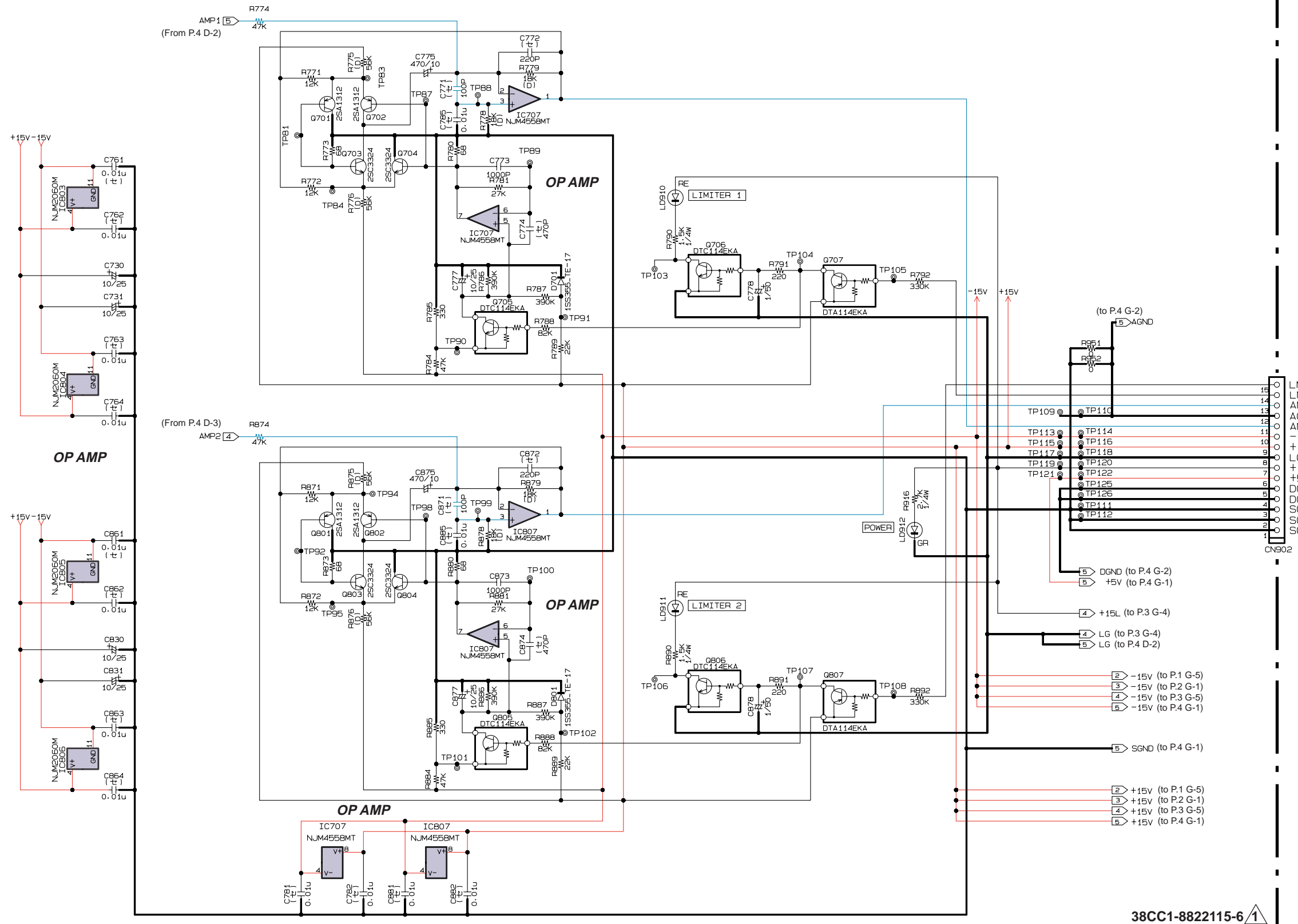
# EMX66M OVERALL CIRCUIT DIAGRAM 4/7 (MIX66 4/5)



(マ) : Mylar Capacitor (マイラーコンデンサー)  
 (セ) : Ceramic Capacitor (セラミックコンデンサー)



# EMX66M OVERALL CIRCUIT DIAGRAM 5/7 (MIX66 5/5)

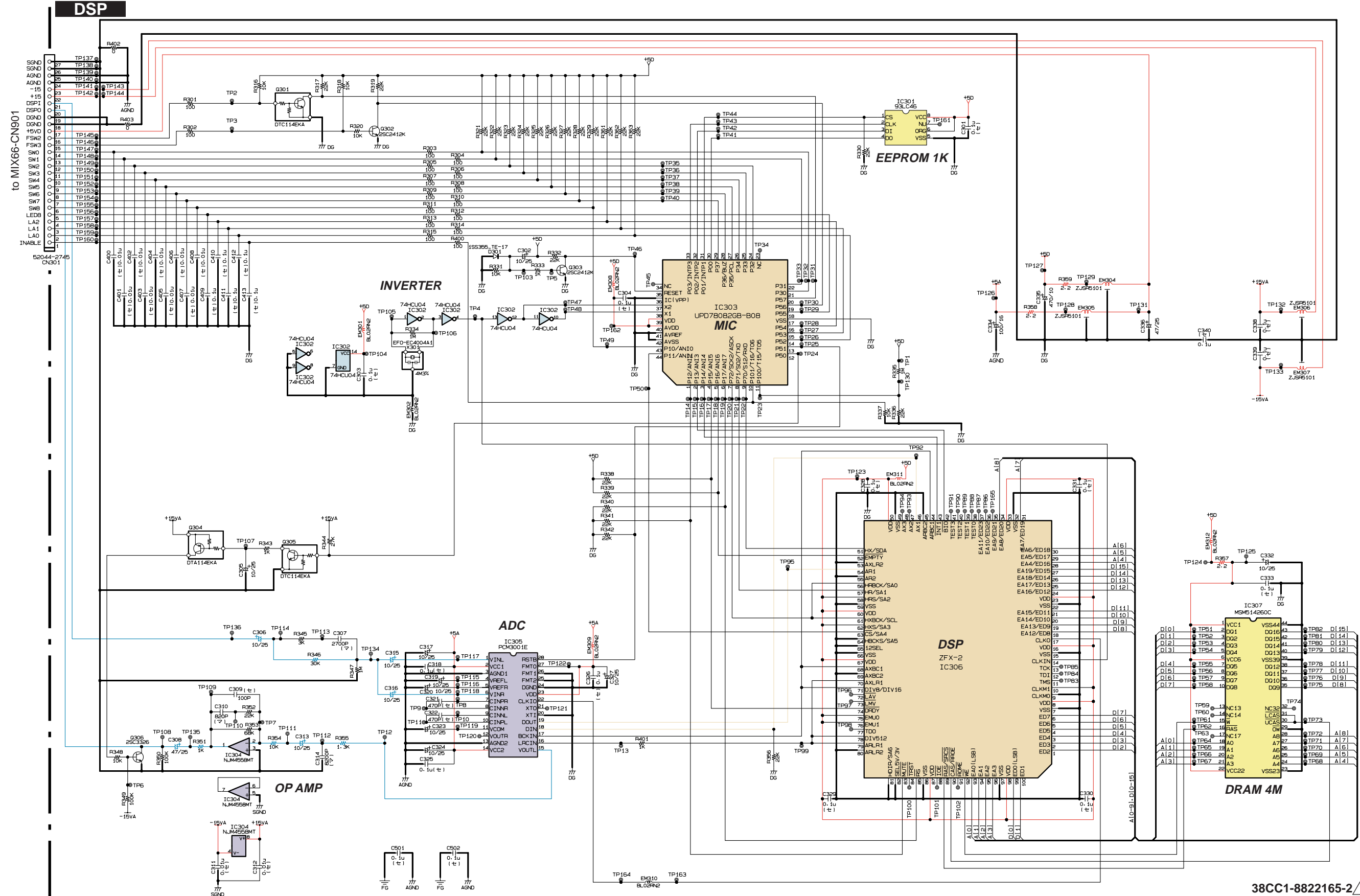


38CC1-8822115-6 1

(セ) : Ceramic Capacitor (セラミックコンデンサー)

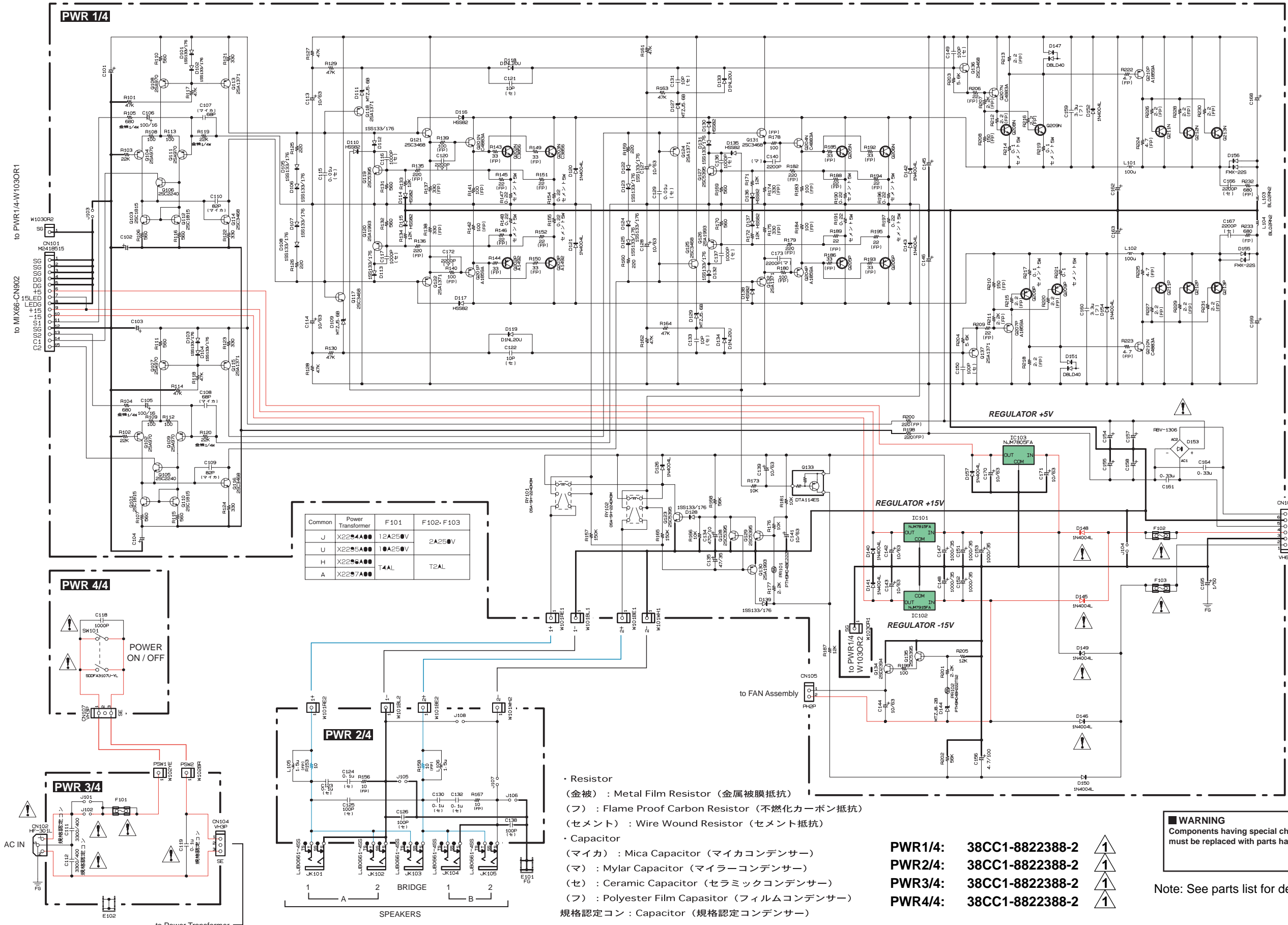
# EMX66M OVERALL CIRCUIT DIAGRAM 6/7 (DSP)

1  
2  
3  
4  
5



38CC1-8822165-2

# EMX66M OVERALL CIRCUIT DIAGRAM 7/7 (PWR 1/4, PWR 2/4, PWR 3/4, PWR 4/4)



Common	Power Transformer	F101	F102, F103
U	X22	4A	12A 250V
J	X22	5A	1A 250V
H	X22	6A	T4AL
A	X22	7A	T2AL


LOCATION	Notes
C111, C112	U, H only
C154, C155	6800/100
C157, C158	Not Install
C168, C169	100/100
C101, C102, C103, C104, C145, C146, C162, C163	2, 2/100
Q202N, Q203N, Q205N, Q206N, Q208N, Q209N, Q211N, Q212N, Q213N	C3519
Q202P, Q203P, Q205P, Q206P, Q208P, Q209P, Q211P, Q212P, Q213P	A1386

LOCATION	Notes
J101~J104, J107	Install
J105, J106, J108	Not Install

- Resistor  
(金被) : Metal Film Resistor (金属被膜抵抗)  
(フ) : Flame Proof Carbon Resistor (不燃化カーボン抵抗)  
(セメント) : Wire Wound Resistor (セメント抵抗)
- Capacitor  
(マイカ) : Mica Capacitor (マイカコンデンサー)  
(マ) : Mylar Capacitor (マイラーコンデンサー)  
(セ) : Ceramic Capacitor (セラミックコンデンサー)  
(フ) : Polyester Film Capacitor (フィルムコンデンサー)  
規格認定コン : Capacitor (規格認定コンデンサー)

- PWR1/4: 38CC1-8822388-2
- PWR2/4: 38CC1-8822388-2
- PWR3/4: 38CC1-8822388-2
- PWR4/4: 38CC1-8822388-2

**WARNING**  
Components having special characteristics are made and must be replaced with parts having specification equal to those originally installed.

Note: See parts list for details of circuit board component parts.

# EMX 66M

POWERED MIXER

## PARTS LIST

### RACK MOUNT KIT

### RK-88

#### ■ CONTENTS

OVERALL ASSEMBLY .....	2
FRONT PANEL ASSEMBLY .....	4
REAR PANEL ASSEMBLY .....	6
ELECTRICAL PARTS .....	8
RK-88 RACK MOUNT KIT .....	26

#### Note) DESTINATION ABBREVIATIONS

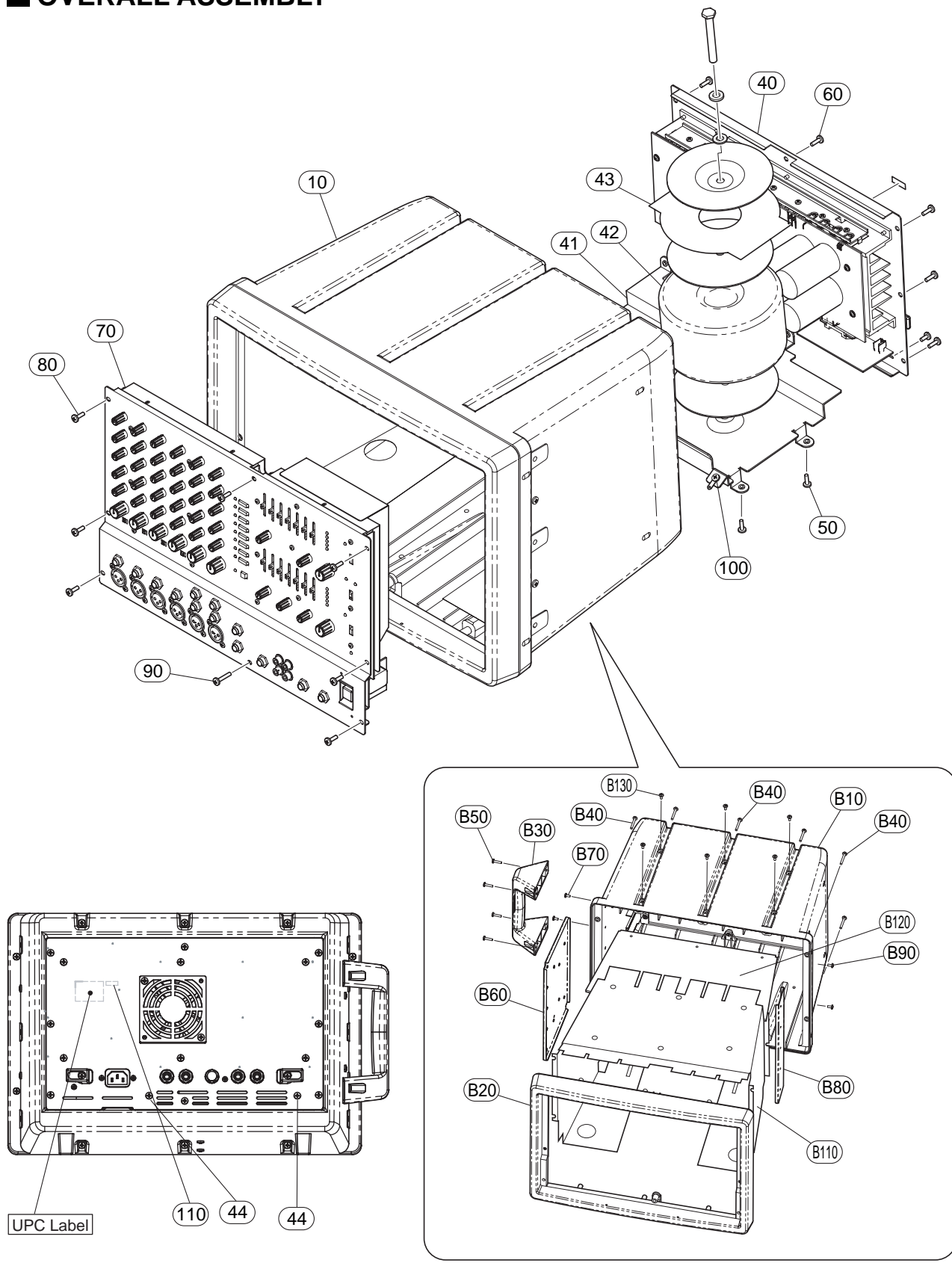
A: Australian model	M: South African model
B: British model	O: Chinese model
C: Canadian model	Q: South-east Asia model
D: German model	T: Taiwan model
E: European model	U: U.S.A. model
F: French model	V: General export model (110V)
H: North European model	W: General export model (220V)
I: Indonesian model	N,X: General export model
J: Japanese model	Y: Export model

#### ■ WARNING

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

- The numbers in " QTY " show quantities for each unit.
- The parts with " - - " in " PART NO. " are not available as spare parts.
- The mark " } " in the remarks column indicates that these parts are interchangeable.
- The second letter of the shaded ( ) part number is O, not zero.
- The second letter of the shaded ( ) part number is I, not one.

# OVERALL ASSEMBLY

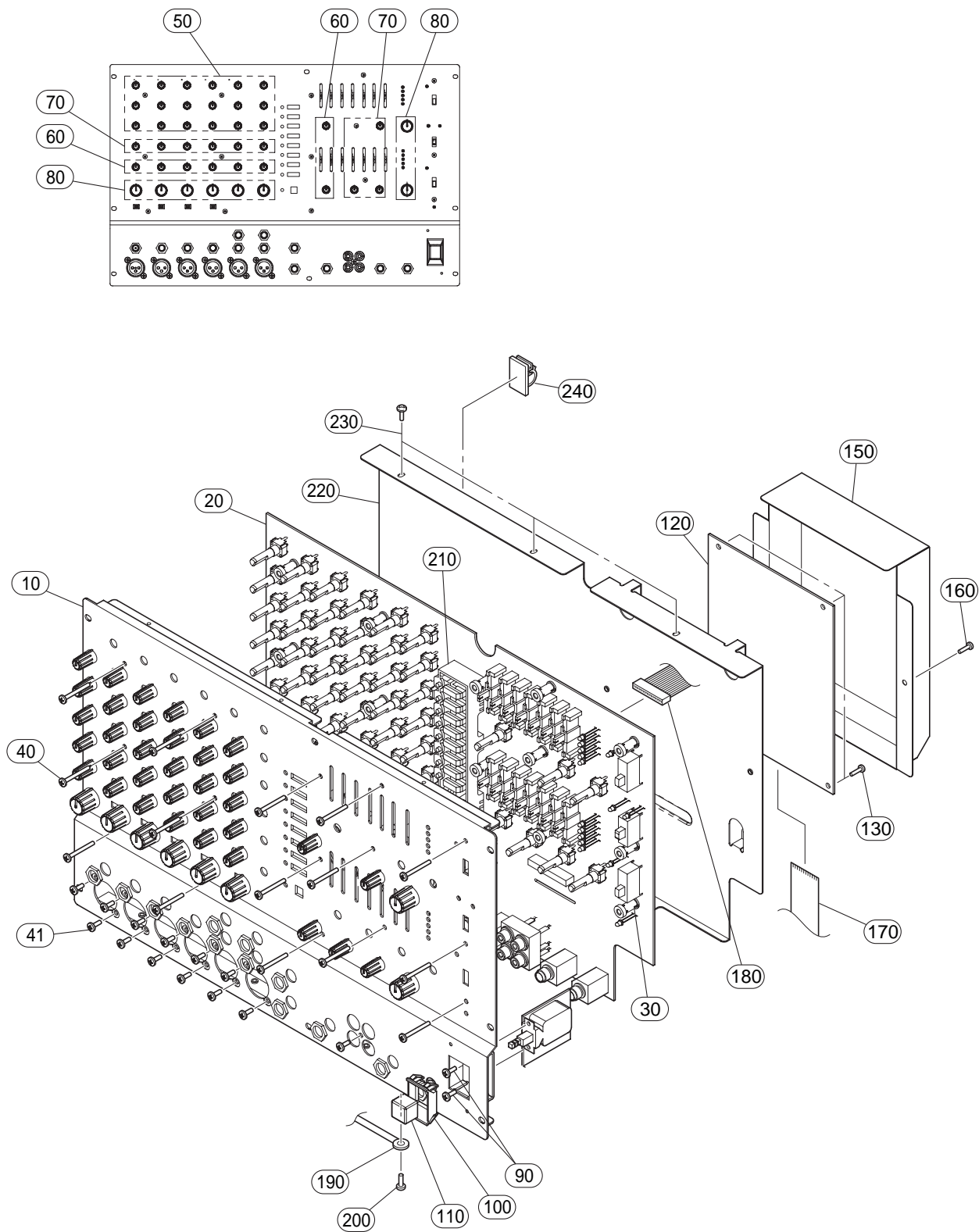


REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	OVERALL ASSEMBLY				
	--	Overall Assembly	J	J (V832670)		
	--	Overall Assembly	U	U,V (V832680)		
	--	Overall Assembly	H	H,B,W (V832690)		
	--	Overall Assembly	A	A (V832700)		
10	--	Body Assembly	J COM	(V832150)		
40	--	Rear Panel Assembly	J	J (V832780)		
40	--	Rear Panel Assembly	U	U (V832790)		
40	--	Rear Panel Assembly	H	H (V832800)		
40	--	Rear Panel Assembly	A	A (V832810)		
*	41	<b>V7871800</b> Holder, Transformer				
△	42	<b>X2294A00</b> Power Transformer		J		
*	42	<b>X2295A00</b> Power Transformer	UL	U, V		
△	42	<b>X2296A00</b> Power Transformer	CE A	H, B, W		
△	42	<b>X2297A00</b> Power Transformer	AS A	A		
*	43	<b>V7019800</b> Shield Plate	CP2000			
	44	<b>EG340190</b> Bind Head Tapping Screw-B	4.0X8 MFZN2BL		2	01
	50	<b>VR138400</b> Bind Head Tapping Screw-B	4.0X12 MFZN2BL		6	01
	60	<b>VB132700</b> Bind Head Screw	4.0X12 MFZN2BL		8	01
	70	-- Front Panel Assembly	J COM	(V832820)		
	80	<b>VB132700</b> Bind Head Screw	4.0X12 MFZN2BL		7	01
	90	<b>VB403600</b> Bind Head Screw	4.0X20 MFZN2BL			01
	100	<b>VP156800</b> Bind Head Screw	A4.0X8 MFZN2BL			01
	110	<b>VA039300</b> Label, Date Code		U		03
	--	BODY ASSEMBLY				
	--	Body Assembly	J COM	(V832150)		
*	B10	<b>V8322500</b> Body Assembly, Sub	J COM			
*	B20	<b>V8322600</b> Front Frame, Sub	J COM			
*	B30	<b>V8419500</b> Handle Assembly	J COM			
*	B40	<b>V8322700</b> Bind Head Tapping Screw-P	4.0X30 MFZN2BL		10	
	B50	<b>EG340110</b> Bind Head Screw	4.0X16 MFZN2BL		4	01
	B60	-- Side Plate	LEFT	(V839690)		
	B70	<b>EG340360</b> Bind Head Screw	4.0X8 MFZN2BL		4	01
	B80	-- Side Plate	RIGHT	(V839700)		
	B90	<b>EG340360</b> Bind Head Screw	4.0X8 MFZN2BL		2	01
*	B110	<b>V8183300</b> Shield Sheet				
	B120	-- Reinforcement Plate		(V850510)		
	B130	<b>EG340360</b> Bind Head Screw	4.0X8 MFZN2BL		6	01
		ACCESSORIES				
	<b>V6283900</b>	AC Cord	BS H05VV-F3X0.75	B		
	<b>V6284300</b>	AC Cord	UC SJT	U, V		
	<b>V6284400</b>	AC Cord	E H05VV-FX3 0.75	H, W, A		
	<b>V7240300</b>	AC Cord	J VCTF 0.75X3	J		

\*: New Parts

RANK: Japan only

# FRONT PANEL ASSEMBLY



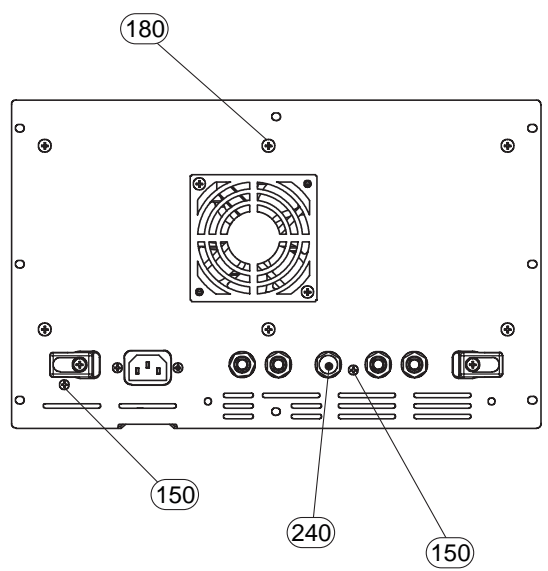
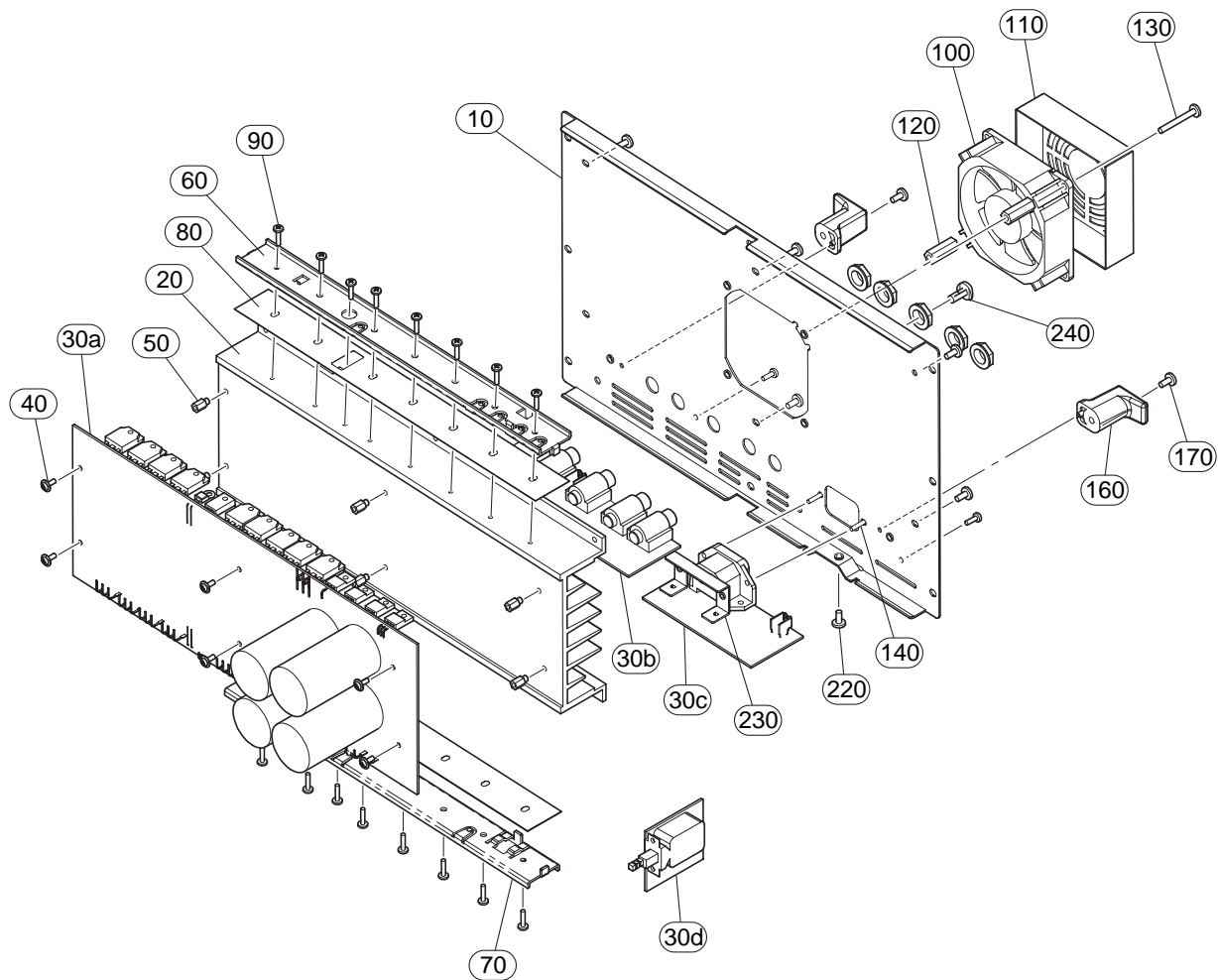
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	FRONT PANEL ASSEMBLY				
	--	Front Panel Assembly	J COM	(V832820)		
* 10	<b>V8329300</b>	Front Panel				
* 20	<b>V8266900</b>	Circuit Board	MIX66			
30	<b>V3291600</b>	PCB Support	NEW NIFCO BL		15	01
40	<b>V3289800</b>	Screw	3X25 MFZNBL		15	01
41	<b>VN413300</b>	Bonding Tapping Screw-B	3.0X8 MFZN2BL		13	01
50	<b>V6225300</b>	Knob	GREEN/M-GRAY	HIGH (CH1-6), MID(CH1-6), LOW (CH1-6)	18	01
60	<b>V6225600</b>	Knob	L-GRAY/M-GRAY	EFFECT (CH1-6), EFFECT RTN	8	01
70	<b>V6225400</b>	Knob	BLUE/M-GRAY	(MONITOR,MAIN) MONITOR (CH1-6),	9	01
80	<b>V6225700</b>	Knob	L-GRAY/D-GRAY	2TR IN (MONITOR, MAIN) LEVEL (CH1-6), MASTER (MONITOR, MAIN)	8	01
90	<b>VB659000</b>	Bind Head Screw	3.0X8 MFZN2BL		2	01
100	<b>VU859100</b>	Escutcheon, Power Switch	MX12/4			02
110	<b>VU859000</b>	Power Switch Knob	MX12/4	POWER ON/OFF		01
* 120	<b>AAX33040</b>	Circuit Board	DSP-ZFX	(V826710)		
130	<b>EP600230</b>	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		4	01
150	--	Shield Case		(V787200)		
160	<b>EP600230</b>	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		2	01
* 170	<b>MF127100</b>	Connector Assembly	27 100mm P=1.25			
* 180	<b>V8426200</b>	Connector Assembly	24185&2426 15P700L			
190	--	Connector Assembly	GND	(V827280)		
200	<b>VP156800</b>	Bind Head Screw	A4.0X8 MFZN2BL			01
* 210	<b>V8422000</b>	Button				
220	--	Shield Plate		(V841270)		
230	<b>EP600230</b>	Bind Head Tapping Screw-B	3.0X6 MFZN2BL		6	01
240	<b>VZ765100</b>	Cord Binder	TS-0708 KSS			02

\*: New Parts

RANK: Japan only



# REAR PANEL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	REAR PANEL ASSEMBLY				
	--	Rear Panel Assembly	J	J (V832780)		
	--	Rear Panel Assembly	U	U (V832790)		
	--	Rear Panel Assembly	H	H (V832800)		
	--	Rear Panel Assembly	A	A (V832810)		
*	10	<b>V8328800</b> Rear Panel	J	J		
*	10	<b>V8328900</b> Rear Panel	U	U		
*	10	<b>V8329000</b> Rear Panel	H	H		
*	10	<b>V8329100</b> Rear Panel	A	A		
	20	-- Heat Sink		(V787110)		
*	30a	<b>AA32870</b> Circuit Board	PWR B66 1/4	J, U (V826870, V826880)		
*	30a	<b>AA32880</b> Circuit Board	PWR B66 1/4	H, A (V826890)		
*	30b	<b>AA32890</b> Circuit Board	PWR B66 2/4	(V826870)		
*	30c	<b>AA32900</b> Circuit Board	PWR B66 3/4	J (V826870)		
*	30c	<b>AA32910</b> Circuit Board	PWR B66 3/4	U (V826880)		
*	30c	<b>AA32920</b> Circuit Board	PWR B66 3/4	H, A (V826890)		
*	30d	<b>AA32930</b> Circuit Board	PWR B66 4/4	(V826870)		
	40	<b>EG330290</b> Bind Head Screw	SP 3.0X8 MFZN2Y		6	01
	50	<b>VV086500</b> Support	H=7.4 B=5.5		6	01
	60	-- TR Holder A		(V521320)		
	70	-- TR Holder B		(V521330)		
	80	<b>V5214900</b> Insulation Sheet			2	03
	90	<b>VQ074600</b> Bind Head Tapping Screw-B	3.0X12 MFZN2BL		16	01
	100	<b>V6147300</b> Fan	3110GLB5WB50H02			08
	110	<b>V2951400</b> Angle Bracket, Fan				03
	120	-- Support		(V813390)	2	
	130	<b>VT229100</b> Bind Head Screw	4.0X30 MFZN2BL		2	01
	140	<b>VQ074600</b> Bind Head Tapping Screw-B	3.0X12 MFZN2BL		2	01
	150	<b>VN413300</b> Bonding Tapping Screw-B	3.0X8 MFZN2BL		2	01
	160	<b>V4773400</b> Holder, Cord			2	
	170	<b>EG340190</b> Bind Head Tapping Screw-B	4.0X8 MFZN2BL		2	01
	180	<b>EG340190</b> Bind Head Tapping Screw-B	4.0X8 MFZN2BL		6	01
	220	<b>VP156800</b> Bind Head Screw	A4.0X8 MFZN2BL			01
*	230	<b>V8098800</b> Angle Bracket, AC Inlet				
	240	<b>V7646900</b> Clip	F1B84 TIFCO			01

\*: New Parts

RANK: Japan only

# ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
		ELECTRICAL PARTS			
*	<b>AA33040</b>	Circuit Board	DSP-ZFX	(V826710) (X0622B0)	
*	<b>V8266900</b>	Circuit Board	MIX66	(X0619B0)	
*	<b>AA32870</b>	Circuit Board	PWR B66 1/4	J, U (V826870) (X0623B0)	
*	<b>AA32880</b>	Circuit Board	PWR B66 1/4	H, A (V826890) (X0623B0)	
*	<b>AA32890</b>	Circuit Board	PWR B66 2/4	(V826870) (X0623B0)	
*	<b>AA32900</b>	Circuit Board	PWR B66 3/4	J (V826870) (X0623B0)	
*	<b>AA32910</b>	Circuit Board	PWR B66 3/4	U (V826880) (X0623B0)	
*	<b>AA32920</b>	Circuit Board	PWR B66 3/4	H, A (V826890) (X0623B0)	
*	<b>AA32930</b>	Circuit Board	PWR B66 4/4	(V826870) (X0623B0)	
*	<b>AA33040</b>	Circuit Board	DSP-ZFX	(V826710) (X0622B0)	
C301	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C302	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C303	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C304	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C305	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C306	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C307	<b>UA953270</b>	Mylar Capacitor	2700P 50V J		01
C308	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V		01
C309	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J		01
C310	<b>VV190000</b>	Mylar Capacitor	820P 50V J		01
C311	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K		01
C312	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K		01
C313	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C314	<b>UA953820</b>	Mylar Capacitor	8200P 50V J		
C315	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
-317	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C318	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C319	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C320	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C321	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J		
C322	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J		
C323	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C324	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C325	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C326	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C327	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C328	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
-331	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C332	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V		01
C333	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C334	<b>UR838100</b>	Electrolytic Cap.	100.00 16.0V		01
C335	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V		01
C336	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V		01
C338	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
-340	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C400	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K		01
-408	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K		01
C409	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
-413	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C501	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
C502	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z		01
CN301	<b>VQ045600</b>	Connector , FFC	52044 27P SE		03
D301	<b>VT332900</b>	Diode	1SS355 TE-17		01
EM301	<b>GE300670</b>	Ferrite Bead	BL02RN2-R62T4		02
EM302	<b>GE300670</b>	Ferrite Bead	BL02RN2-R62T4		02
EM304	<b>VV056900</b>	Noise Filter	ZJSR5101-223TA		01
-307	<b>VV056900</b>	Noise Filter	ZJSR5101-223TA		01
EM308	<b>GE300670</b>	Ferrite Bead	BL02RN2-R62T4		02
-312	<b>GE300670</b>	Ferrite Bead	BL02RN2-R62T4		02
IC301	<b>X2124A00</b>	IC	93LC46B-1/SN-N	EEPROM 2K	
IC302	<b>XZ110A00</b>	IC	74HCU04DT	INVERTER	01
IC303	<b>XY296A00</b>	IC	UPD78082GB-XXX	MCU	05
IC304	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP	03
IC305	<b>X0053A00</b>	IC	PCM3001E/2K	ADA	07
IC306	<b>XY297A00</b>	IC	ZFX-2	CPU	13
IC307	<b>XT810B00</b>	IC	MSM514260E-60TS-K	DRAM 4M	07
Q301	<b>VV655400</b>	Digital Transistor	DTC114EKA TP		01

\*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
Q302	VV556400	Transistor	2SC2412K Q,R,S		01
Q303	VV556400	Transistor	2SC2412K Q,R,S		01
Q304	VV655000	Digital Transistor	DTA114EKA TP		01
Q305	VV655400	Digital Transistor	DTC114EKA TP		01
Q306	VD303700	Transistor	2SC3326 A,B TE85R		01
R301	RG005100	Carbon Resistor (chip)	100 0.1 J		
-315	RG005100	Carbon Resistor (chip)	100 0.1 J		
R316	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R317	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R318	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R319	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R320	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R321	RG007220	Carbon Resistor (chip)	22K 0.1 J		
-330	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R331	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R332	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R333	RG006100	Carbon Resistor (chip)	1.0K 0.1 J		
R334	RG009100	Carbon Resistor (chip)	1.0M 0.1 J		
R335	RG009100	Carbon Resistor (chip)	1.0M 0.1 J		
R336	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R337	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R338	RG007220	Carbon Resistor (chip)	22K 0.1 J		
-342	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R343	RG006100	Carbon Resistor (chip)	1.0K 0.1 J		
R344	RG007270	Carbon Resistor (chip)	27K 0.1 J		
R345	RG006300	Carbon Resistor (chip)	3.0K 0.1 J		
R346	RG007300	Carbon Resistor (chip)	30K 0.1 J		
R347	RG009100	Carbon Resistor (chip)	1.0M 0.1 J		
R348	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R349	RG008100	Carbon Resistor (chip)	100K 0.1 J		
R350	RG008100	Carbon Resistor (chip)	100K 0.1 J		
R351	RG006100	Carbon Resistor (chip)	1.0K 0.1 J		
R352	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R353	RG007680	Carbon Resistor (chip)	68K 0.1 J		
* R354	RG007100	Carbon Resistor (chip)	10K 0.1 J		
R355	RG006130	Carbon Resistor (chip)	1.3K 0.1 J		
R356	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R357	VV313600	Flame Proof C. Resistor	2.2 1/4 J		01
-359	VV313600	Flame Proof C. Resistor	2.2 1/4 J		01
R361	RG007220	Carbon Resistor (chip)	22K 0.1 J		
-363	RG007220	Carbon Resistor (chip)	22K 0.1 J		
R400	RG005100	Carbon Resistor (chip)	100 0.1 J		
R401	RG006100	Carbon Resistor (chip)	1.0K 0.1 J		
R402	RG000000	Carbon Resistor (chip)	0 0.1 J		
R403	RG000000	Carbon Resistor (chip)	0 0.1 J		
* X301	V8288200	Ceramic Resonator	0.3% 4.0MHZ		
* V8266900	V8266900	Circuit Board	MIX66	(X0619B0)	
V4467500	V4467500	Button	CD-GRAY/WHITE	PAD (CH1-4)	4 01
VV307300	VV307300	LED Spacer			24 01
20	--	Jumper Wire	0.60	(VV29140)	
30	--	Jumper Wire	0.60 TP	(V829020)	
C101	UR847470	Electrolytic Cap.	47.00 25.0V		01
C102	VV488800	Electrolytic Cap. LLM	10.00 50.0V		01
C103	VV488800	Electrolytic Cap. LLM	10.00 50.0V		01
C104	UX062470	Ceramic Capacitor (chip)	470P 50V J		
-107	UX062470	Ceramic Capacitor (chip)	470P 50V J		
C108	UR828470	Electrolytic Cap.	470.00 10.0V		01
C109	UX062100	Ceramic Capacitor (chip)	100P 50V J		01
-111	UX062100	Ceramic Capacitor (chip)	100P 50V J		01
C112	UR847100	Electrolytic Cap.	10.00 25.0V		01
C113	UA954150	Mylar Capacitor	0.0150 50V J		01
C114	UA954100	Mylar Capacitor	0.0100 50V J		01
C115	UA954120	Mylar Capacitor	0.0120 50V J		01
C116	UA953390	Mylar Capacitor	3900P 50V J		01
C117	UX062100	Ceramic Capacitor (chip)	100P 50V J		01
* C118	UX061270	Ceramic Capacitor (chip)	27P 50V J		
C119	UR847470	Electrolytic Cap.	47.00 25.0V		01
C120	UR847100	Electrolytic Cap.	10.00 25.0V		01
C121	UR847100	Electrolytic Cap.	10.00 25.0V		01

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C122	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-125	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C126	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C202	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C203	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C204	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
-207	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C208	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C209	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
-211	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C212	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C213	<b>UA954150</b>	Mylar Capacitor	0.0150 50V J			01
C214	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C215	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C216	<b>UA953390</b>	Mylar Capacitor	3900P 50V J			01
C217	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
* C218	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			
C219	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C220	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C221	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C302	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C303	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C304	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
-307	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C308	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C309	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
-311	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C312	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C313	<b>UA954150</b>	Mylar Capacitor	0.0150 50V J			01
C314	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C315	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C316	<b>UA953390</b>	Mylar Capacitor	3900P 50V J			01
C317	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
* C318	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			
C319	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C320	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C321	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C322	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-325	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C326	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C401	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C402	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C403	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C404	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
-407	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C408	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C409	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
-411	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C412	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C413	<b>UA954150</b>	Mylar Capacitor	0.0150 50V J			01
C414	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C415	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C416	<b>UA953390</b>	Mylar Capacitor	3900P 50V J			01
C417	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
* C418	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			
C419	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C420	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C421	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C502	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C503	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C504	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
-507	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C508	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C509	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
-511	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C513	<b>UA954150</b>	Mylar Capacitor	0.0150 50V J			01
C514	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C515	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C516	<b>UA953390</b>	Mylar Capacitor	3900P 50V J			01
C517	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* C518	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			
C519	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C520	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C521	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C522	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C523	<b>UX061470</b>	Ceramic Capacitor (chip)	47P 50V J			
C524	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C526	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C527	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-530	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C602	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C603	<b>VV488800</b>	Electrolytic Cap. LLM	10.00 50.0V			01
C604	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
-607	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C608	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C609	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
-611	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C613	<b>UA954150</b>	Mylar Capacitor	0.0150 50V J			01
C614	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C615	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C616	<b>UA953390</b>	Mylar Capacitor	3900P 50V J			01
C617	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
* C618	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			
C619	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C622	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C623	<b>UX061470</b>	Ceramic Capacitor (chip)	47P 50V J			
C624	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C626	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C627	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-630	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C631	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C632	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C633	<b>UX061470</b>	Ceramic Capacitor (chip)	47P 50V J			
C634	<b>UX061470</b>	Ceramic Capacitor (chip)	47P 50V J			
C635	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C636	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C637	<b>UX061220</b>	Ceramic Capacitor (chip)	22P 50V J			01
C638	<b>UX061220</b>	Ceramic Capacitor (chip)	22P 50V J			01
C702	<b>UR838100</b>	Electrolytic Cap.	100.00 16.0V			01
C703	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
* C704	<b>UX060600</b>	Ceramic Capacitor (chip)	6P 50V C			
C705	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C706	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C708	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C709	<b>UX061100</b>	Ceramic Capacitor (chip)	10P 50V D			01
C710	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C711	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C712	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C713	<b>UX061680</b>	Ceramic Capacitor (chip)	68P 50V J			01
C714	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C716	<b>UA655820</b>	Mylar Capacitor	0.8200 50V J			01
C717	<b>UA954820</b>	Mylar Capacitor	0.0820 50V J			01
C718	<b>UA655470</b>	Mylar Capacitor	0.4700 50V J			01
C719	<b>UA954390</b>	Mylar Capacitor	0.0390 50V J			01
C720	<b>UA655220</b>	Mylar Capacitor	0.2200 50V J			01
C721	<b>UA954180</b>	Mylar Capacitor	0.0180 50V J			01
C722	<b>V5868900</b>	Mylar Capacitor	0.1 50V J			
C723	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C724	<b>UA954470</b>	Mylar Capacitor	0.0470 50V J			01
C725	<b>UA953470</b>	Mylar Capacitor	4700P 50V J			01
C726	<b>UA954270</b>	Mylar Capacitor	0.0270 50V J			01
C727	<b>UA953220</b>	Mylar Capacitor	2200P 50V J			01
C728	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			
C729	<b>UA953120</b>	Mylar Capacitor	1200P 50V J			01
C730	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C731	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C732	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			
C733	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C734	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C736	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01

\*: New Parts

RANK: Japan only

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C737	<b>UX061680</b>	Ceramic Capacitor (chip)	68P 50V J			01
C738	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C741	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-748	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C751	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C752	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C753	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C754	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C761	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-764	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C771	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C772	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C773	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C774	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			01
C775	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C777	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C778	<b>UR866100</b>	Electrolytic Cap.	1.00 50.0V			01
C781	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C782	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C785	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C802	<b>UR838100</b>	Electrolytic Cap.	100.00 16.0V			01
C803	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
* C804	<b>UX060600</b>	Ceramic Capacitor (chip)	6P 50V C			01
C805	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C806	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C808	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C809	<b>UX061100</b>	Ceramic Capacitor (chip)	10P 50V D			01
C810	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C811	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C812	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C813	<b>UX061680</b>	Ceramic Capacitor (chip)	68P 50V J			01
C814	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C816	<b>UA655820</b>	Mylar Capacitor	0.8200 50V J			01
C817	<b>UA954820</b>	Mylar Capacitor	0.0820 50V J			01
C818	<b>UA655470</b>	Mylar Capacitor	0.4700 50V J			01
C819	<b>UA954390</b>	Mylar Capacitor	0.0390 50V J			01
C820	<b>UA655220</b>	Mylar Capacitor	0.2200 50V J			01
C821	<b>UA954180</b>	Mylar Capacitor	0.0180 50V J			01
C822	<b>V5868900</b>	Mylar Capacitor	0.1 50V J			01
C823	<b>UA954100</b>	Mylar Capacitor	0.0100 50V J			01
C824	<b>UA954470</b>	Mylar Capacitor	0.0470 50V J			01
C825	<b>UA953470</b>	Mylar Capacitor	4700P 50V J			01
C826	<b>UA954270</b>	Mylar Capacitor	0.0270 50V J			01
C827	<b>UA953220</b>	Mylar Capacitor	2200P 50V J			01
C828	<b>UA954120</b>	Mylar Capacitor	0.0120 50V J			01
C829	<b>UA953120</b>	Mylar Capacitor	1200P 50V J			01
C830	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C831	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C832	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			01
C833	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C834	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C861	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
-864	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C871	<b>UX062100</b>	Ceramic Capacitor (chip)	100P 50V J			01
C872	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
C873	<b>UX063100</b>	Ceramic Capacitor (chip)	1000P 50V K			01
C874	<b>UX062470</b>	Ceramic Capacitor (chip)	470P 50V J			01
C875	<b>UR828470</b>	Electrolytic Cap.	470.00 10.0V			01
C877	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C878	<b>UR866100</b>	Electrolytic Cap.	1.00 50.0V			01
C881	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C882	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C885	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C901	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
* C902	<b>UX060600</b>	Ceramic Capacitor (chip)	6P 50V C			01
C903	<b>UR847100</b>	Electrolytic Cap.	10.00 25.0V			01
C905	<b>UX062220</b>	Ceramic Capacitor (chip)	220P 50V J			01
* C906	<b>UX061270</b>	Ceramic Capacitor (chip)	27P 50V J			01
C907	<b>UR847470</b>	Electrolytic Cap.	47.00 25.0V			01
C908	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C909	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C910	<b>UR858100</b>	Electrolytic Cap.	100.00 35.0V			01
C911	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z			01
C912	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z			01
C913	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C914	<b>UX064100</b>	Ceramic Capacitor (chip)	0.0100 50V K			01
C915	<b>UA655120</b>	Mylar Capacitor	0.1200 50V J			01
C917	<b>UA655120</b>	Mylar Capacitor	0.1200 50V J			01
C921	<b>UX145100</b>	Ceramic Capacitor (chip)	0.1000 25V Z			01
C925	<b>UA655120</b>	Mylar Capacitor	0.1200 50V J			01
C927	<b>UA655120</b>	Mylar Capacitor	0.1200 50V J			01
CN901	<b>VQ047800</b>	Connector, FFC	52045 27P TE			02
CN902	<b>VV067500</b>	Connector Base Post	M2426XX 15P TE			01
D601	<b>VT332900</b>	Diode	1SS355 TE-17			01
-604	<b>VT332900</b>	Diode	1SS355 TE-17			01
D701	<b>VT332900</b>	Diode	1SS355 TE-17			01
D801	<b>VT332900</b>	Diode	1SS355 TE-17			01
D901	<b>VT332900</b>	Diode	1SS355 TE-17			01
D902	<b>VT332900</b>	Diode	1SS355 TE-17			01
EM901	<b>VV056900</b>	Noise Filter	ZJSR5101-223TA			01
IC101	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
IC102	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP		03
IC301	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
IC302	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP		03
IC501	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
IC502	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP		03
IC601	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
* IC603	<b>XV423A00</b>	IC	TL072CPSR	OP AMP		02
IC702	<b>XZ348A00</b>	IC	LB1423N	LED DRIVER		02
IC703	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
-706	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
IC707	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP		03
IC802	<b>XZ348A00</b>	IC	LB1423N	LED DRIVER		02
* IC803	<b>XM560A00</b>	IC	NJM2060M(TE2)OP	OP AMP		02
* -806	<b>XM560A00</b>	IC	NJM2060M(TE2)OP	OP AMP		02
IC807	<b>IG103520</b>	IC	NJM4558M(T1)	OP AMP		03
IC901	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
IC902	<b>XW762A00</b>	IC	TC74HC138AFEL	DEMULTIPLEXER		02
IC903	<b>XJ553A00</b>	IC	NJM2068MD-T1	OP AMP		02
JK101	<b>V6127200</b>	XLM Connector	JY-5042	Low-Z (CH1)		03
JK102	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Hi-Z (CH1)		02
JK201	<b>V6127200</b>	XLM Connector	JY-5042	Low-Z (CH2)		03
JK202	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Hi-Z (CH2)		02
JK301	<b>V6127200</b>	XLM Connector	JY-5042	Low-Z (CH3)		03
JK302	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Hi-Z (CH3)		02
JK401	<b>V6127200</b>	XLM Connector	JY-5042	Low-Z (CH4)		03
JK402	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Hi-Z (CH4)		02
JK501	<b>V6127200</b>	XLM Connector	JY-5042	MIC (CH5)		03
JK502	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	LINE 1 (CH5)		02
JK503	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	LINE 2 (CH5)		02
JK601	<b>V6127200</b>	XLM Connector	JY-5042	MIC (CH6)		03
JK602	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Super Hi-Z 1 (CH6)		02
JK603	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	Super Hi-Z 2 (CH6)		02
JK701	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	OUTPUT MAIN		02
JK702	<b>V4807600</b>	Pin Jack	RJ-1130A-01-0320A	2TR IN 1, 2		03
JK703	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	REC OUT 1, 2		02
JK801	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	AUX IN		02
JK901	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	OUTPUT MONITOR		02
JK902	<b>V2886000</b>	Phone Jack	JY-6351J-06-340	EFFECT OUT		02
LD701	<b>V8840400</b>	LED	L34YD-TNB5/13.6 YE	FOOT SW		02
* LD702	<b>V8840400</b>	LED	L34YD-TNB5/13.6 YE	+6 (MAIN)		02
* LD703	<b>V8840400</b>	LED	L34YD-TNB5/13.6 YE	+3 (MAIN)		02
* LD704	<b>V8840200</b>	LED	L34YD-TNB5/13.6 YE	0 (MAIN)		02
* LD705	<b>V8840200</b>	LED	L34GD-TNB5/13.6 GR	-5 (MAIN)		02
* LD801	<b>V8840400</b>	LED	L34GD-TNB5/13.6 GR	-10 (MAIN)		02
* LD802	<b>V8840400</b>	LED	L34YD-TNB5/13.6 YE	+6 (MONITOR)		02
* LD803	<b>V8840400</b>	LED	L34YD-TNB5/13.6 YE	+3 (MONITOR)		02
* LD804	<b>V8840200</b>	LED	L34YD-TNB5/13.6 YE	0 (MONITOR)		02
* LD805	<b>V8840200</b>	LED	L34GD-TNB5/13.6 GR	-5 (MONITOR)		02
* LD805	<b>V8840200</b>	LED	L34GD-TNB5/13.6 GR	-10 (MONITOR)		02

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* LD806	V8840400	LED	L34YD-TNB5/13.6 YE	PHANTOM		
* LD901	V8840200	LED	L34GD-TNB5/13.6 GR	VOCAL ECHO 1		
* LD902	V8840200	LED	L34GD-TNB5/13.6 GR	VOCAL ECHO 2		
* LD903	V8840200	LED	L34GD-TNB5/13.6 GR	VOCAL REVERB 1		
* LD904	V8840200	LED	L34GD-TNB5/13.6 GR	VOCAL REVERB 2		
* LD905	V8840200	LED	L34GD-TNB5/13.6 GR	HALL 1		
* LD906	V8840200	LED	L34GD-TNB5/13.6 GR	HALL 2		
* LD907	V8840200	LED	L34GD-TNB5/13.6 GR	ROOM		
* LD908	V8840200	LED	L34GD-TNB5/13.6 GR	PLATE		
* LD909	V8840400	LED	L34YD-TNB5/13.6 YE	EFFECT ON		
* LD910	V8840100	LED	L34HD-TNB5/13.6 RE	LIMITER		
* LD911	V8840100	LED	L34HD-TNB5/13.6 RE	LIMITER		
* LD912	V8840200	LED	L34GD-TNB5/13.6 GR	POWER		
* LD913	V8840400	LED	L34YD-TNB5/13.6 YE	YSP		
* Q101	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q102	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q201	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q202	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q301	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q302	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q401	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q402	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q501	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q502	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q601	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q602	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q701	V7421800	Transistor	2SA2SA1312 GR,BL			
* Q702	V7421800	Transistor	2SA2SA1312 GR,BL			
* Q703	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q704	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
Q705	VV655400	Digital Transistor	DTC114EKA TP			01
Q706	VV655400	Digital Transistor	DTC114EKA TP			01
Q707	VV655000	Digital Transistor	DTA114EKA TP			01
* Q801	V7421800	Transistor	2SA2SA1312 GR,BL			
* Q802	V7421800	Transistor	2SA2SA1312 GR,BL			
* Q803	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
* Q804	V7421700	Transistor (chip)	2SC2SC3324 GR,BL			
Q805	VV655400	Digital Transistor	DTC114EKA TP			01
Q806	VV655400	Digital Transistor	DTC114EKA TP			01
Q807	VV655000	Digital Transistor	DTA114EKA TP			01
* Q901	V7421800	Transistor	2SA2SA1312 GR,BL			
R101	RG008100	Carbon Resistor (chip)	100K 0.1 J			
R102	V2440200	Metal Film Resistor	2.4K 1/4 F			01
R103	V2440200	Metal Film Resistor	2.4K 1/4 F			01
R104	VV276800	Flame Proof C. Resistor	100 1/4 J			01
* R105	RG007150	Carbon Resistor (chip)	15K 0.1 J			
R106	RG004100	Carbon Resistor (chip)	10 0.1 J			
R107	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R108	RF357470	Carbon Resistor (chip)	47.0K D 1608			
* R109	RF357470	Carbon Resistor (chip)	47.0K D 1608			
R110	RG004100	Carbon Resistor (chip)	10 0.1 J			
R111	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R112	RG005150	Carbon Resistor (chip)	150 0.1 J			
R113	RG006820	Carbon Resistor (chip)	8.2K 0.1 J			
* R114	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R115	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R116	RF356220	Carbon Resistor (chip)	2.2K D 1608			
* R117	RF356220	Carbon Resistor (chip)	2.2K D 1608			
R118	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R119	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R120	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R121	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R122	RG005680	Carbon Resistor (chip)	680			
R123	RG005680	Carbon Resistor (chip)	680			
R124	RG006270	Carbon Resistor (chip)	2.7K			
R125	RG006270	Carbon Resistor (chip)	2.7K			
R126	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R127	RG006270	Carbon Resistor (chip)	2.7K			
R128	RG004100	Carbon Resistor (chip)	10 0.1 J			
R129	RG007180	Carbon Resistor (chip)	18K 0.1 J			

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
-131	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
R132	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
* R133	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
R134	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R135	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R202	<b>V2440200</b>	Metal Film Resistor	2.4K 1/4 F		01
R203	<b>V2440200</b>	Metal Film Resistor	2.4K 1/4 F		01
* R205	<b>RG007150</b>	Carbon Resistor (chip)	15K 0.1 J		
R206	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R207	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
* R208	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
* R209	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
R210	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R211	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
* R212	<b>RG005150</b>	Carbon Resistor (chip)	150 0.1 J		
R213	<b>RG006820</b>	Carbon Resistor (chip)	8.2K 0.1 J		
* R214	<b>RF356820</b>	Carbon Resistor (chip)	8.2K D 1608		
* R215	<b>RF356820</b>	Carbon Resistor (chip)	8.2K D 1608		
* R216	<b>RF356220</b>	Carbon Resistor (chip)	2.2K D 1608		
* R217	<b>RF356220</b>	Carbon Resistor (chip)	2.2K D 1608		
R218	<b>RF357100</b>	Carbon Resistor (chip)	10.0K D 1608		01
R219	<b>RF357100</b>	Carbon Resistor (chip)	10.0K D 1608		01
R220	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R221	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R222	<b>RG005680</b>	Carbon Resistor (chip)	680		
R223	<b>RG005680</b>	Carbon Resistor (chip)	680		
R224	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R225	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R226	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R227	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R228	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R229	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
-231	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
* R232	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
* R233	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
R234	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R235	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R302	<b>V2440200</b>	Metal Film Resistor	2.4K 1/4 F		01
R303	<b>V2440200</b>	Metal Film Resistor	2.4K 1/4 F		01
* R305	<b>RG007150</b>	Carbon Resistor (chip)	15K 0.1 J		
R306	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R307	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
* R308	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
* R309	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
R310	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R311	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
* R312	<b>RG005150</b>	Carbon Resistor (chip)	150 0.1 J		
R313	<b>RG006820</b>	Carbon Resistor (chip)	8.2K 0.1 J		
* R314	<b>RF356820</b>	Carbon Resistor (chip)	8.2K D 1608		
* R315	<b>RF356820</b>	Carbon Resistor (chip)	8.2K D 1608		
* R316	<b>RF356220</b>	Carbon Resistor (chip)	2.2K D 1608		
* R317	<b>RF356220</b>	Carbon Resistor (chip)	2.2K D 1608		
R318	<b>RF357100</b>	Carbon Resistor (chip)	10.0K D 1608		01
R319	<b>RF357100</b>	Carbon Resistor (chip)	10.0K D 1608		01
R320	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R321	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R322	<b>RG005680</b>	Carbon Resistor (chip)	680		
R323	<b>RG005680</b>	Carbon Resistor (chip)	680		
R324	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R325	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R326	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R327	<b>RG006270</b>	Carbon Resistor (chip)	2.7K		
R328	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R329	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
-331	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
* R332	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
* R333	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608		
R334	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R335	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R401	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		

\*: New Parts

RANK: Japan only

## EMX66M

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R402	V2440200	Metal Film Resistor	2.4K 1/4 F			01
R403	V2440200	Metal Film Resistor	2.4K 1/4 F			01
* R404	VV276800	Flame Proof C. Resistor	100 1/4 J			01
* R405	RG007150	Carbon Resistor (chip)	15K 0.1 J			
R406	RG004100	Carbon Resistor (chip)	10 0.1 J			
R407	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R408	RF357470	Carbon Resistor (chip)	47.0K D 1608			
* R409	RF357470	Carbon Resistor (chip)	47.0K D 1608			
R410	RG004100	Carbon Resistor (chip)	10 0.1 J			
R411	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R412	RG005150	Carbon Resistor (chip)	150 0.1 J			
R413	RG006820	Carbon Resistor (chip)	8.2K 0.1 J			
* R414	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R415	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R416	RF356220	Carbon Resistor (chip)	2.2K D 1608			
* R417	RF356220	Carbon Resistor (chip)	2.2K D 1608			
R418	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R419	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R420	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R421	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R422	RG005680	Carbon Resistor (chip)	680			
R423	RG005680	Carbon Resistor (chip)	680			
R424	RG006270	Carbon Resistor (chip)	2.7K			
R425	RG006270	Carbon Resistor (chip)	2.7K			
R426	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R427	RG006270	Carbon Resistor (chip)	2.7K			
R428	RG004100	Carbon Resistor (chip)	10 0.1 J			
R429	RG007180	Carbon Resistor (chip)	18K 0.1 J			
-431	RG007180	Carbon Resistor (chip)	18K 0.1 J			
* R432	RF356390	Carbon Resistor (chip)	3.9K D 1608			
* R433	RF356390	Carbon Resistor (chip)	3.9K D 1608			
R434	RG008100	Carbon Resistor (chip)	100K 0.1 J			
R435	RG008100	Carbon Resistor (chip)	100K 0.1 J			
R502	V2440200	Metal Film Resistor	2.4K 1/4 F			01
R503	V2440200	Metal Film Resistor	2.4K 1/4 F			01
* R505	RG007150	Carbon Resistor (chip)	15K 0.1 J			
R506	RG004100	Carbon Resistor (chip)	10 0.1 J			
R507	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R508	RF357470	Carbon Resistor (chip)	47.0K D 1608			
* R509	RF357470	Carbon Resistor (chip)	47.0K D 1608			
R510	RG004100	Carbon Resistor (chip)	10 0.1 J			
R511	RG004100	Carbon Resistor (chip)	10 0.1 J			
* R512	RG005150	Carbon Resistor (chip)	150 0.1 J			
R513	RG007180	Carbon Resistor (chip)	18K 0.1 J			
* R514	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R515	RF356820	Carbon Resistor (chip)	8.2K D 1608			
* R516	RF356220	Carbon Resistor (chip)	2.2K D 1608			
* R517	RF356220	Carbon Resistor (chip)	2.2K D 1608			
R518	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R519	RF357100	Carbon Resistor (chip)	10.0K D 1608			01
R520	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R521	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R522	RG005680	Carbon Resistor (chip)	680			
R523	RG005680	Carbon Resistor (chip)	680			
R524	RG006270	Carbon Resistor (chip)	2.7K			
R525	RG006270	Carbon Resistor (chip)	2.7K			
R526	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R527	RG006270	Carbon Resistor (chip)	2.7K			
R528	RG004100	Carbon Resistor (chip)	10 0.1 J			
R529	RG007180	Carbon Resistor (chip)	18K 0.1 J			
-533	RG007180	Carbon Resistor (chip)	18K 0.1 J			
R534	RG008100	Carbon Resistor (chip)	100K 0.1 J			
-536	RG008100	Carbon Resistor (chip)	100K 0.1 J			
R537	RG006470	Carbon Resistor (chip)	4.7K 0.1 J			
R538	RG007100	Carbon Resistor (chip)	10K 0.1 J			
R602	V2440200	Metal Film Resistor	2.4K 1/4 F			01
R603	V2440200	Metal Film Resistor	2.4K 1/4 F			01
* R605	RG007150	Carbon Resistor (chip)	15K 0.1 J			
R606	RG004100	Carbon Resistor (chip)	10 0.1 J			
R607	RG004100	Carbon Resistor (chip)	10 0.1 J			

\*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
*	R608	RF357470	Carbon Resistor (chip)	47.0K D 1608	
*	R609	RF357470	Carbon Resistor (chip)	47.0K D 1608	
	R610	RG004100	Carbon Resistor (chip)	10 0.1 J	
	R611	RG004100	Carbon Resistor (chip)	10 0.1 J	
*	R612	RG005150	Carbon Resistor (chip)	150 0.1 J	
	R613	RG007180	Carbon Resistor (chip)	18K 0.1 J	
*	R614	RF356820	Carbon Resistor (chip)	8.2K D 1608	
*	R615	RF356820	Carbon Resistor (chip)	8.2K D 1608	
*	R616	RF356220	Carbon Resistor (chip)	2.2K D 1608	
*	R617	RF356220	Carbon Resistor (chip)	2.2K D 1608	
	R618	RF357100	Carbon Resistor (chip)	10.0K D 1608	01
	R619	RF357100	Carbon Resistor (chip)	10.0K D 1608	01
	R620	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R621	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R622	RG005680	Carbon Resistor (chip)	680	
	R623	RG005680	Carbon Resistor (chip)	680	
	R624	RG006270	Carbon Resistor (chip)	2.7K	
	R625	RG006270	Carbon Resistor (chip)	2.7K	
	R626	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R627	RG006270	Carbon Resistor (chip)	2.7K	
	R628	RG004100	Carbon Resistor (chip)	10 0.1 J	
	R629	RG007180	Carbon Resistor (chip)	18K 0.1 J	
	-633	RG007180	Carbon Resistor (chip)	18K 0.1 J	
	R636	RG008100	Carbon Resistor (chip)	100K 0.1 J	
	R637	RG006470	Carbon Resistor (chip)	4.7K 0.1 J	
	R638	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R639	RG006100	Carbon Resistor (chip)	1.0K 0.1 J	
	R640	RG006100	Carbon Resistor (chip)	1.0K 0.1 J	
	R641	RG008470	Carbon Resistor (chip)	470K 0.1 J	
	R642	RG008470	Carbon Resistor (chip)	470K 0.1 J	
	R643	RG006470	Carbon Resistor (chip)	4.7K 0.1 J	
	R644	RG006470	Carbon Resistor (chip)	4.7K 0.1 J	
	R645	RG007470	Carbon Resistor (chip)	47K 0.1 J	
	R646	RG007470	Carbon Resistor (chip)	47K 0.1 J	
	R701	RG006820	Carbon Resistor (chip)	8.2K 0.1 J	
	R702	RG006820	Carbon Resistor (chip)	8.2K 0.1 J	
	R703	RG006150	Carbon Resistor (chip)	1.5K 0.1 J	
	R704	RG006150	Carbon Resistor (chip)	1.5K 0.1 J	
*	R705	RG006120	Carbon Resistor (chip)	1.2K 0.1 J	
*	R706	RG006120	Carbon Resistor (chip)	1.2K 0.1 J	
	R710	RG007180	Carbon Resistor (chip)	18K 0.1 J	
*	R711	RG007360	Carbon Resistor (chip)	36K 0.1 J	
*	R712	RG007360	Carbon Resistor (chip)	36K 0.1 J	
	R713	RG008220	Carbon Resistor (chip)	220K 0.1 J	
	R714	RG008100	Carbon Resistor (chip)	100K 0.1 J	
*	R716	RG008120	Carbon Resistor (chip)	120K 0.1 J	
*	R717	RG008120	Carbon Resistor (chip)	120K 0.1 J	
	R718	RG007180	Carbon Resistor (chip)	18K 0.1 J	
	R719	RG005220	Carbon Resistor (chip)	220 0.1 J	
*	R720	RG006430	Carbon Resistor (chip)	4.3K 0.1 J	
	R721	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R724	RG006330	Carbon Resistor (chip)	3.3K 0.1 J	
	R725	RG008100	Carbon Resistor (chip)	100K 0.1 J	
	R726	RG006330	Carbon Resistor (chip)	3.3K 0.1 J	
	R727	RG007100	Carbon Resistor (chip)	10K 0.1 J	
	R728	RG006470	Carbon Resistor (chip)	4.7K 0.1 J	
*	R729	RG005750	Carbon Resistor (chip)	750 0.1 J	
	R730	RG007100	Carbon Resistor (chip)	10K 0.1 J	
*	R731	RG205680	Carbon Resistor (chip)	680 1/4 J	
*	-733	RG205680	Carbon Resistor (chip)	680 1/4 J	
	R734	RG005560	Carbon Resistor (chip)	560 0.1 J	
	R735	RG005560	Carbon Resistor (chip)	560 0.1 J	
	R737	RF357100	Carbon Resistor (chip)	10.0K D 1608	01
	R738	RF357100	Carbon Resistor (chip)	10.0K D 1608	01
	R739	RG008100	Carbon Resistor (chip)	100K 0.1 J	
	R741	RG006910	Carbon Resistor (chip)	9.1K 0.1 J	
	R742	RG005100	Carbon Resistor (chip)	100 0.1 J	
	R751	RG005560	Carbon Resistor (chip)	560 0.1 J	
	-757	RG005560	Carbon Resistor (chip)	560 0.1 J	
	R761	RG007470	Carbon Resistor (chip)	47K 0.1 J	

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
-768	<b>RG007470</b>	Carbon Resistor (chip)	47K 0.1 J		
R771	<b>RG007120</b>	Carbon Resistor (chip)	12K 0.1 J		
R772	<b>RG007120</b>	Carbon Resistor (chip)	12K 0.1 J		
R773	<b>RG004680</b>	Carbon Resistor (chip)	68 0.1 J		
* R774	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
* R775	<b>RF357560</b>	Carbon Resistor (chip)	56.0K D 1608		
* R776	<b>RF357560</b>	Carbon Resistor (chip)	56.0K D 1608		
* R778	<b>RF357180</b>	Carbon Resistor (chip)	18.0K D 1608		
* R779	<b>RF357180</b>	Carbon Resistor (chip)	18.0K D 1608		
R780	<b>RG004680</b>	Carbon Resistor (chip)	68 0.1 J		
R781	<b>RG007270</b>	Carbon Resistor (chip)	27K 0.1 J		
R784	<b>RG007470</b>	Carbon Resistor (chip)	47K 0.1 J		
* R785	<b>RG005330</b>	Carbon Resistor (chip)	330 0.1 J		
R786	<b>RG008390</b>	Carbon Resistor (chip)	390K 0.1 J		
R787	<b>RG008390</b>	Carbon Resistor (chip)	390K 0.1 J		
R788	<b>RG007820</b>	Carbon Resistor (chip)	82K 0.1 J		
R789	<b>RG007220</b>	Carbon Resistor (chip)	22K 0.1 J		
* R790	<b>RG206150</b>	Carbon Resistor (chip)	1.5K 1/4W		
R791	<b>RG005220</b>	Carbon Resistor (chip)	220 0.1 J		
* R792	<b>RG008330</b>	Carbon Resistor (chip)	330K 0.1 J		
R812	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
R813	<b>RG008220</b>	Carbon Resistor (chip)	220K 0.1 J		
R814	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
* R816	<b>RG008120</b>	Carbon Resistor (chip)	120K 0.1 J		
* R817	<b>RG008120</b>	Carbon Resistor (chip)	120K 0.1 J		
R818	<b>RG007180</b>	Carbon Resistor (chip)	18K 0.1 J		
R819	<b>RG005220</b>	Carbon Resistor (chip)	220 0.1 J		
* R820	<b>RG006430</b>	Carbon Resistor (chip)	4.3K 0.1 J		
R821	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R824	<b>RG006330</b>	Carbon Resistor (chip)	3.3K 0.1 J		
R825	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R826	<b>RG006330</b>	Carbon Resistor (chip)	3.3K 0.1 J		
R827	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
R828	<b>RG006470</b>	Carbon Resistor (chip)	4.7K 0.1 J		
* R829	<b>RG005750</b>	Carbon Resistor (chip)	750 0.1 J		
R830	<b>RG007100</b>	Carbon Resistor (chip)	10K 0.1 J		
* R831	<b>RG205680</b>	Carbon Resistor (chip)	680 1/4 J		
* -833	<b>RG205680</b>	Carbon Resistor (chip)	680 1/4 J		
R834	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J		
R835	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J		
R851	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J		
-857	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J		
R861	<b>RG007470</b>	Carbon Resistor (chip)	47K 0.1 J		
-868	<b>RG007470</b>	Carbon Resistor (chip)	47K 0.1 J		
* R869	<b>RG206270</b>	Carbon Resistor (chip)	2.7K 1/4 J		
R871	<b>RG007120</b>	Carbon Resistor (chip)	12K 0.1 J		
R872	<b>RG007120</b>	Carbon Resistor (chip)	12K 0.1 J		
R873	<b>RG004680</b>	Carbon Resistor (chip)	68 0.1 J		
* R874	<b>RF357470</b>	Carbon Resistor (chip)	47.0K D 1608		
* R875	<b>RF357560</b>	Carbon Resistor (chip)	56.0K D 1608		
* R876	<b>RF357560</b>	Carbon Resistor (chip)	56.0K D 1608		
* R878	<b>RF357180</b>	Carbon Resistor (chip)	18.0K D 1608		
* R879	<b>RF357180</b>	Carbon Resistor (chip)	18.0K D 1608		
R880	<b>RG004680</b>	Carbon Resistor (chip)	68 0.1 J		
R881	<b>RG007270</b>	Carbon Resistor (chip)	27K 0.1 J		
R884	<b>RG007470</b>	Carbon Resistor (chip)	47K 0.1 J		
* R885	<b>RG005330</b>	Carbon Resistor (chip)	330 0.1 J		
R886	<b>RG008390</b>	Carbon Resistor (chip)	390K 0.1 J		
R887	<b>RG008390</b>	Carbon Resistor (chip)	390K 0.1 J		
R888	<b>RG007820</b>	Carbon Resistor (chip)	82K 0.1 J		
R889	<b>RG007220</b>	Carbon Resistor (chip)	22K 0.1 J		
* R890	<b>RG206150</b>	Carbon Resistor (chip)	1.5K 1/4W		
R891	<b>RG005220</b>	Carbon Resistor (chip)	220 0.1 J		
* R892	<b>RG008330</b>	Carbon Resistor (chip)	330K 0.1 J		
R900	<b>RG004100</b>	Carbon Resistor (chip)	10 0.1 J		
R901	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J		
R902	<b>RG007220</b>	Carbon Resistor (chip)	22K 0.1 J		
R904	<b>RG005220</b>	Carbon Resistor (chip)	220 0.1 J		
* R905	<b>RG007150</b>	Carbon Resistor (chip)	15K 0.1 J		
* R906	<b>RG007390</b>	Carbon Resistor (chip)	39K 0.1 J		

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R907	<b>RG008100</b>	Carbon Resistor (chip)	100K 0.1 J			
R908	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J			
R909	<b>RG005560</b>	Carbon Resistor (chip)	560 0.1 J			
R910	<b>RG008470</b>	Carbon Resistor (chip)	470K 0.1 J			
R911	<b>RG006470</b>	Carbon Resistor (chip)	4.7K 0.1 J			
R912	<b>RG007270</b>	Carbon Resistor (chip)	27K 0.1 J			
R913	<b>RG007270</b>	Carbon Resistor (chip)	27K 0.1 J			
R914	<b>RG007680</b>	Carbon Resistor (chip)	68K 0.1 J			
R915	<b>RG007680</b>	Carbon Resistor (chip)	68K 0.1 J			
* R916	<b>RG206270</b>	Carbon Resistor (chip)	2.7K 1/4 J			
R917	<b>RG205330</b>	Carbon Resistor (chip)	330 1/4 J			
-925	<b>RG205330</b>	Carbon Resistor (chip)	330 1/4 J			
* R926	<b>RG004180</b>	Carbon Resistor (chip)	18 0.1 J			
* R928	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608			
* R930	<b>RF357820</b>	Carbon Resistor (chip)	82.0K D 1608			
* R934	<b>RG004180</b>	Carbon Resistor (chip)	18 0.1 J			
R935	<b>RG205330</b>	Carbon Resistor (chip)	330 1/4 J			
* R936	<b>RG004180</b>	Carbon Resistor (chip)	18 0.1 J			
R938	<b>RF356390</b>	Carbon Resistor (chip)	3.9K D 1608			
R940	<b>RF357820</b>	Carbon Resistor (chip)	82.0K D 1608			01
* R944	<b>RG004180</b>	Carbon Resistor (chip)	18 0.1 J			
R951	<b>RG000000</b>	Carbon Resistor (chip)	0 0.1 J			
R952	<b>RG000000</b>	Carbon Resistor (chip)	0 0.1 J			
SW101	<b>V6962600</b>	Push Switch		PAD (CH1)		02
SW201	<b>V6962600</b>	Push Switch		PAD (CH2)		02
SW301	<b>V6962600</b>	Push Switch		PAD (CH3)		02
SW401	<b>V6962600</b>	Push Switch		PAD (CH4)		02
* SW701	<b>V8059400</b>	Slide Switch	SS001P243OHcPA6	MAIN-MON, MAIN-MAIN, MAIN-BRIDGE		
SW702	<b>V3483200</b>	Slide Switch	SS001P022BQcPA6	PHANTOM ON/OFF		03
SW901	<b>VV056000</b>	Tact Switch	SKQNAED010	VOCAL ECHO 1		01
SW902	<b>VV056000</b>	Tact Switch	SKQNAED010	VOCAL ECHO 2		01
SW903	<b>VV056000</b>	Tact Switch	SKQNAED010	VOCAL REVERB 1		01
SW904	<b>VV056000</b>	Tact Switch	SKQNAED010	VOCAL REVERB 2		01
SW905	<b>VV056000</b>	Tact Switch	SKQNAED010	HALL 1		01
SW906	<b>VV056000</b>	Tact Switch	SKQNAED010	HALL 2		01
SW907	<b>VV056000</b>	Tact Switch	SKQNAED010	ROOM		01
SW908	<b>VV056000</b>	Tact Switch	SKQNAED010	PLATE		01
SW909	<b>VV056000</b>	Tact Switch	SKQNAED010	EFFECT ON		01
* SW910	<b>V8058000</b>	Slide Switch	SS001P242BPcA6	YSP ON/OFF		
* VR101	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH1)		
* VR102	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH1)		
* VR103	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH1)		
* VR104	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH1)		
* VR105	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH1)		
* VR106	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH1)		
* VR201	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH2)		
* VR202	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH2)		
* VR203	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH2)		
* VR204	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH2)		
* VR205	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH2)		
* VR206	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH2)		
* VR301	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH3)		
* VR302	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH3)		
* VR303	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH3)		
* VR304	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH3)		
* VR305	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH3)		
* VR306	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH3)		
* VR401	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH4)		
* VR402	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH4)		
* VR403	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH4)		
* VR404	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH4)		
* VR405	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH4)		
* VR406	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH4)		
* VR501	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH5)		
* VR502	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH5)		
* VR503	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH5)		
* VR504	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH5)		
* VR505	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH5)		
* VR506	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH5)		

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
* VR601	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	LOW (CH6)		
* VR602	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	MID (CH6)		
* VR603	<b>V8264700</b>	Rotary Variable Resistor	B 50.0K XV09213P	HIGH (CH6)		
* VR604	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MONITOR (CH6)		
* VR605	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT (CH6)		
* VR606	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	LEVEL (CH6)		
* VR701	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	AUX IN		
* VR702	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	2TR IN (MAIN)		
* VR703	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MASTER (MAIN)		
* VR704	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	125 (MAIN)		
VR705	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	250 (MAIN)		
VR706	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	500 (MAIN)		
VR707	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	1k (MAIN)		
VR708	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	2k (MAIN)		
VR709	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	4k (MAIN)		
VR710	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	8k (MAIN)		
* VR802	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	2TR IN (MONITOR)		
* VR803	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	MASTER (MONITOR)		
VR804	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	125 (MONITOR)		
VR805	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	250 (MONITOR)		
VR806	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	500 (MONITOR)		
VR807	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	1k (MONITOR)		
VR808	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	2k (MONITOR)		
VR809	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	4k (MONITOR)		
VR810	<b>VV044600</b>	Slide Variable Resistor	RS20H11KD017-YL	8k (MONITOR)		
* VR901	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT RTN (MONITOR)		
* VR902	<b>V8264600</b>	Rotary Variable Resistor	A 20.0K XV09213P	EFFECT RTN (MAIN)		
* AAX32870	Circuit Board	PWR B66 1/4	J, U (V826870) (X0623B0)			
* AAX32880	Circuit Board	PWR B66 1/4	H, A (V826890) (X0623B0)			
* AAX32890	Circuit Board	PWR B66 2/4	(V826870) (X0623B0)			
* AAX32900	Circuit Board	PWR B66 3/4	J (V826780) (X0623B0)			
* AAX32910	Circuit Board	PWR B66 3/4	U (V826880) (X0623B0)			
* AAX32920	Circuit Board	PWR B66 3/4	H, A (V826890) (X0623B0)			
* AAX32930	Circuit Board	PWR B66 4/4	(V826870) (X0623B0)			
--	Jumper Wire	0.60 TP	(V829020)			
--	Wiring Assembly	SGND	(V842670)			
--	Jumper Wire	0.60	(VV29140)			
	<b>VV319600</b>	Fuse Holder	CQ-05CT			
* C101	<b>UR896220</b>	Electrolytic Cap.	2.2 100.0V			
* -104	<b>UR896220</b>	Electrolytic Cap.	2.2 100.0V			
C105	<b>UR838100</b>	Electrolytic Cap.	100.00 16.0V			
C106	<b>UR838100</b>	Electrolytic Cap.	100.00 16.0V			
C107	<b>FU451680</b>	Mica Capacitor	68P 500V J			
C108	<b>FU451680</b>	Mica Capacitor	68P 500V J			
C109	<b>FU451820</b>	Mica Capacitor	82P 500V J			
C110	<b>FU451820</b>	Mica Capacitor	82P 500V J			
C111	<b>V6185400</b>	Capacitor	3300P 400V J.U.C.S	U, H		
C112	<b>V6185400</b>	Capacitor	3300P 400V J.U.C.S	U, H		
C113	<b>UR877100</b>	Electrolytic Cap.	10.00 63.0V			
C114	<b>UR877100</b>	Electrolytic Cap.	10.00 63.0V			
C115	<b>VZ354000</b>	Ceramic Capacitor-F	0.0100 50V Z			
C116	<b>VZ353900</b>	Ceramic Cap.-B	1000P 50V K			
C117	<b>VZ353900</b>	Ceramic Cap.-B	1000P 50V K			
C118	<b>V6113500</b>	Capacitor	1000P 400V J.U.C.S			
C119	<b>V0039700</b>	Capacitor	0.1 275V UCS			
C120	<b>UA953220</b>	Mylar Capacitor	2200P 50V J			
C121	<b>V4567500</b>	Ceramic Capacitor-SL	10P 500V K			
C122	<b>V4567500</b>	Ceramic Capacitor-SL	10P 500V K			
C123	<b>VZ354600</b>	Monolithic Ceramic Cap.	0.10 50V Z			
C124	<b>VZ354600</b>	Monolithic Ceramic Cap.	0.10 50V Z			
C125	<b>V3280500</b>	Ceramic Capacitor-B	100P 500 K			
C126	<b>VZ353500</b>	Ceramic Capacitor-SL	100P 50V J			
C127	<b>UR877100</b>	Electrolytic Cap.	10.00 63.0V			
C128	<b>UR877100</b>	Electrolytic Cap.	10.00 63.0V			
C129	<b>VZ354000</b>	Ceramic Capacitor-F	0.0100 50V Z			
C130	<b>VZ354600</b>	Monolithic Ceramic Cap.	0.10 50V Z			
C131	<b>V4567500</b>	Ceramic Capacitor-SL	10P 500V K			
C132	<b>VZ354600</b>	Monolithic Ceramic Cap.	0.10 50V Z			

\*: New Parts

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REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C133	V4567500	Ceramic Capacitor-SL	10P 500V K			
C134	UR828470	Electrolytic Cap.	470.00 10.0V			01
C135	UR857470	Electrolytic Cap.	47.00 35.0V			01
C136	VZ353900	Ceramic Cap.-B	1000P 50V K			01
C137	VZ353900	Ceramic Cap.-B	1000P 50V K			01
C138	VZ353500	Ceramic Capacitor-SL	100P 50V J			01
C139	UR877100	Electrolytic Cap.	10.00 63.0V			01
C140	UA953220	Mylar Capacitor	2200P 50V J			01
C141	UR877100	Electrolytic Cap.	10.00 63.0V			01
* -144	UR877100	Electrolytic Cap.	10.00 63.0V			01
* C145	UR896220	Electrolytic Cap.	2.2 100.0V			
C146	UR896220	Electrolytic Cap.	2.2 100.0V			
C147	V5482000	Electrolytic Cap.	1000 35.0V			
C148	V5482000	Electrolytic Cap.	1000 35.0V			
C149	V3280500	Ceramic Capacitor-B	100P 500 K			01
C150	V3280500	Ceramic Capacitor-B	100P 500 K			01
C151	V5482000	Electrolytic Cap.	1000 35.0V			
-153	V5482000	Electrolytic Cap.	1000 35.0V			
C154	VY897000	Electrolytic Cap.	6800 100V			08
C155	VY897000	Electrolytic Cap.	6800 100V			08
C156	UR896470	Electrolytic Cap.	4.7 100.0V			
C159	VV082200	Polyester Film Cap.	3.3000 100V M			03
C160	VV082200	Polyester Film Cap.	3.3000 100V M			03
* C161	V3148500	Polyester Film Cap.	0.33 250V M			01
* C162	UR896220	Electrolytic Cap.	2.2 100.0V			
C163	UR896220	Electrolytic Cap.	2.2 100.0V			
C164	V3148500	Polyester Film Cap.	0.33 250V M			01
C165	UR866100	Electrolytic Cap.	1.00 50.0V			01
C166	VZ354300	Ceramic Capacitor-E	0.0022 500 M			01
C167	VZ354300	Ceramic Capacitor-E	0.0022 500 M			01
C168	V5307900	Electrolytic Cap.	100 100.0V			
C169	V5307900	Electrolytic Cap.	100 100.0V			
C170	UR877100	Electrolytic Cap.	10.00 63.0V			01
C171	UR877100	Electrolytic Cap.	10.00 63.0V			01
C172	UA953220	Mylar Capacitor	2200P 50V J			01
C173	UA953220	Mylar Capacitor	2200P 50V J			01
CN101	V3765300	Connector Base Post	M24185XX 15 TE			
CN102	V5817000	AC Inlet	HF-301L			02
CN104	LB933030	Base Post Connector	VH- 3P SE			01
CN105	VV066200	Connector Base Post	M2426XX 2P TE			01
CN106	LB932060	Base Post Connector	VH- 6P TE			01
CN107	LB933030	Base Post Connector	VH- 3P SE			01
D101	VD631600	Diode	1SS133,176,HSS104			01
-108	VD631600	Diode	1SS133,176,HSS104			01
D109	VG437700	Zener Diode	MTZ J 5.6B 5.6V			01
D110	VQ469600	Diode	HSS82			01
D111	VG437700	Zener Diode	MTZ J 5.6B 5.6V			01
D112	VD631600	Diode	1SS133,176,HSS104			01
D113	VD631600	Diode	1SS133,176,HSS104			01
D114	VQ469600	Diode	HSS82			01
-117	VQ469600	Diode	HSS82			01
D118	VN478200	Diode	D1NL20U			01
D119	VN478200	Diode	D1NL20U			01
D120	VU801600	Diode	1N4004L 26			01
D121	VU801600	Diode	1N4004L 26			01
D122	VD631600	Diode	1SS133,176,HSS104			01
-125	VD631600	Diode	1SS133,176,HSS104			01
D126	VU801600	Diode	1N4004L 26			01
D127	VG437700	Zener Diode	MTZ J 5.6B 5.6V			01
D128	VD631600	Diode	1SS133,176,HSS104			01
D129	VG437700	Zener Diode	MTZ J 5.6B 5.6V			01
D130	VQ469600	Diode	HSS82			01
D131	VD631600	Diode	1SS133,176,HSS104			01
D132	VD631600	Diode	1SS133,176,HSS104			01
D133	VN478200	Diode	D1NL20U			01
D134	VN478200	Diode	D1NL20U			01
D135	VQ469600	Diode	HSS82			01
-138	VQ469600	Diode	HSS82			01
D139	VD631600	Diode	1SS133,176,HSS104			01
D140	VU801600	Diode	1N4004L 26			01



\*: New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
Q132	<b>VU418400</b>	Transistor	2SA1371 D,E		01
Q133	<b>VD678500</b>	Digital Transistor	DTA114ES		01
Q134	<b>VS883400</b>	Transistor	2SD2394 E,F		02
Q135	<b>V2797700</b>	Transistor	2SC5395 E,F		01
Q136	<b>VU418600</b>	Transistor	2SC3468 D,E		01
Q137	<b>VU418400</b>	Transistor	2SA1371 D,E		01
Q201N	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q201P	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q202N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q202P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q203N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q203P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q204N	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q204P	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q205N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q205P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q206N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q206P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q207N	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q207P	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q208N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q208P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q209N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q209P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q210N	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q210P	<b>VR732800</b>	Transistor	A1859A/C4883A		04
Q211N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q211P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q212N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q212P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q213N	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
Q213P	<b>V5611000</b>	Pair Transistor	A1386A/C3519A		05
R101	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
R102	<b>HF457220</b>	Carbon Resistor	22.0K 1/4 J		01
R103	<b>HF457220</b>	Carbon Resistor	22.0K 1/4 J		01
R104	<b>VV312800</b>	Metal Film Resistor	680.0 1/4 F		01
R105	<b>VV312800</b>	Metal Film Resistor	680.0 1/4 F		01
R106	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R107	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R108	<b>HF455100</b>	Carbon Resistor	100.0 1/4 J		01
R109	<b>HF455100</b>	Carbon Resistor	100.0 1/4 J		01
R110	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R111	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R112	<b>HF455100</b>	Carbon Resistor	100.0 1/4 J		01
R113	<b>HF455100</b>	Carbon Resistor	100.0 1/4 J		01
R114	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
R115	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R116	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R117	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
R118	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
R119	<b>VV312900</b>	Metal Film Resistor	22K 1/4 F		01
R120	<b>VV312900</b>	Metal Film Resistor	22K 1/4 F		01
R121	<b>HF455330</b>	Carbon Resistor	330.0 1/4 J		01
-124	<b>HF455330</b>	Carbon Resistor	330.0 1/4 J		01
R125	<b>HF455220</b>	Carbon Resistor	220.0 1/4 J		01
R126	<b>HF455220</b>	Carbon Resistor	220.0 1/4 J		01
R127	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
-130	<b>HF457470</b>	Carbon Resistor	47.0K 1/4 J		01
R131	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R132	<b>HF455560</b>	Carbon Resistor	560.0 1/4 J		01
R133	<b>HF457120</b>	Carbon Resistor	12.0K 1/4 J		01
R134	<b>HF457120</b>	Carbon Resistor	12.0K 1/4 J		01
R135	<b>VV313800</b>	Flame Proof C. Resistor	220.0 1/4 J		01
R136	<b>VV313800</b>	Flame Proof C. Resistor	220.0 1/4 J		01
R137	<b>VZ009300</b>	Flame Proof C. Resistor	330.0 1/4 J		01
R138	<b>VZ009300</b>	Flame Proof C. Resistor	330.0 1/4 J		01
R139	<b>VV276800</b>	Flame Proof C. Resistor	100 1/4 J		01
-142	<b>VV276800</b>	Flame Proof C. Resistor	100 1/4 J		01
R143	<b>VZ009100</b>	Flame Proof C. Resistor	33.0 1/4 J		01
R144	<b>VZ009100</b>	Flame Proof C. Resistor	33.0 1/4 J		01

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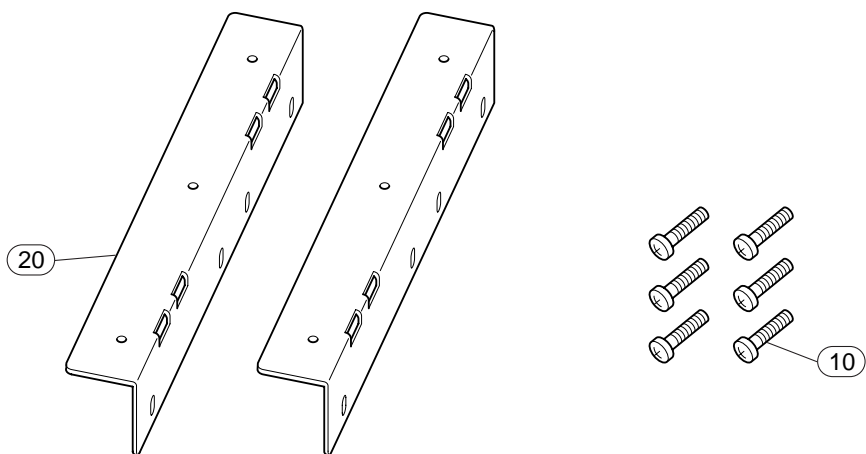
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R145	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R146	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R147	V4833200	Wire Wound Resistor	0.22 5W K			01
R148	V4833200	Wire Wound Resistor	0.22 5W K			01
R149	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R150	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R151	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R152	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R153	VV058500	Flame Proof C. Resistor	10.0 1/4 J			01
R154	V4833200	Wire Wound Resistor	0.22 5W K			01
R155	V4833200	Wire Wound Resistor	0.22 5W K			01
R156	VV058500	Flame Proof C. Resistor	10.0 1/4 J			01
R157	HF458150	Carbon Resistor	150.0K 1/4 J			01
R158	VV058500	Flame Proof C. Resistor	10.0 1/4 J			01
R159	HF455220	Carbon Resistor	220.0 1/4 J			01
R160	HF455220	Carbon Resistor	220.0 1/4 J			01
R161	HF457470	Carbon Resistor	47.0K 1/4 J			01
R164	HF457470	Carbon Resistor	47.0K 1/4 J			01
R165	HF458150	Carbon Resistor	150.0K 1/4 J			01
R166	HF457100	Carbon Resistor	10.0K 1/4 J			01
R167	VV058500	Flame Proof C. Resistor	10.0 1/4 J			01
R168	HF457560	Carbon Resistor	56.0K 1/4 J			01
R169	HF455560	Carbon Resistor	560.0 1/4 J			01
R170	HF455560	Carbon Resistor	560.0 1/4 J			01
R171	HF457120	Carbon Resistor	12.0K 1/4 J			01
R172	HF457120	Carbon Resistor	12.0K 1/4 J			01
R173	HF457100	Carbon Resistor	10.0K 1/4 J			01
R174	VZ009300	Flame Proof C. Resistor	330.0 1/4 J			01
R175	VZ009300	Flame Proof C. Resistor	330.0 1/4 J			01
R176	HF457100	Carbon Resistor	10.0K 1/4 J			01
R177	HF456220	Carbon Resistor	2.2K 1/4 J			01
R178	VV276800	Flame Proof C. Resistor	100 1/4 J			01
R179	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
R180	VV276800	Flame Proof C. Resistor	100 1/4 J			01
R181	HF457100	Carbon Resistor	10.0K 1/4 J			01
R182	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
R183	VV276800	Flame Proof C. Resistor	100 1/4 J			01
R184	VV276800	Flame Proof C. Resistor	100 1/4 J			01
R185	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R186	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R187	HF457120	Carbon Resistor	12.0K 1/4 J			01
R188	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R189	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R190	V4833200	Wire Wound Resistor	0.22 5W K			01
R191	V4833200	Wire Wound Resistor	0.22 5W K			01
R192	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R193	VZ009100	Flame Proof C. Resistor	33.0 1/4 J			01
R194	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R195	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R196	V4833200	Wire Wound Resistor	0.22 5W K			01
R197	V4833200	Wire Wound Resistor	0.22 5W K			01
R198	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
R199	HF455100	Carbon Resistor	100.0 1/4 J			01
R200	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
R201	HF456220	Carbon Resistor	2.2K 1/4 J			01
R202	HF457560	Carbon Resistor	56.0K 1/4 J			01
R203	HF456560	Carbon Resistor	5.6K 1/4 J			01
R204	HF456560	Carbon Resistor	5.6K 1/4 J			01
R205	HF457120	Carbon Resistor	12.0K 1/4 J			01
R206	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R207	VZ008700	Flame Proof C. Resistor	2.2K 1/4 J			01
R208	VZ008600	Flame Proof C. Resistor	150.0 1/4 J			01
R209	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R210	VZ008600	Flame Proof C. Resistor	150.0 1/4 J			01
R211	VZ008700	Flame Proof C. Resistor	2.2K 1/4 J			01
R212	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R213	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R214	VZ370200	Wire Wound Resistor	0.1 5W K			01
R215	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R216	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01

\*: New Parts

RANK: Japan only



■ RK-88 RACK MOUNT KIT



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
10	<b>VB132700</b>	RACK MOUNT KIT		RK-88	6	01
20	--	Bind Head Screw	4.0X12 MFZN2BL	(V840830)	2	
		Rack Angle				

\*: New Parts

RANK: Japan only