

SUBWOOFER SW500

SERVICE MANUAL



■ CONTENTS

SPECIFICATIONS	3
PERFORMANCE GRAPH	4
PANEL LAYOUT	4
CIRCUIT BOARD LAYOUT	5
DIMENSIONS	5
WIRING	6
BLOCK DIAGRAM	7
DISASSEMBLY PROCEDURE	8
IC BLOCK DIAGRAM	11
CIRCUIT BOARDS	11
INSPECTIONS	14/15
OVERALL CIRCUIT DIAGRAM	
PARTS LIST	

This document is printed on chlorine free (ECF) paper with soy ink.



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 bus in the unit (heavy gauge black wires connect to this bus.)

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

IMPORTANT. The wires in this main lead are coloured in accordance with the following code:
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 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).

Be certain that neither core is connected to the earth terminal of the three pin plug.

■ WARNING

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

■ SPECIFICATIONS

General specifications

Type

Bass Reflex powered subwoofer

Frequency Range

40–120 Hz (–10 dB)

Maximum Output Level

122 dB (1 m on Axis)

Dimensions (W x H x D)

480 x 619 x 590 mm

Weight

42.5 kg

Installation pole diameter

35 mm (1.375")

Accessories

Power cable 2.5 m (AC inlet type)

Speaker unit

Speaker Unit

38 cm cone (8Ω)

Enclosure

Type: Bass Reflex

Amp. unit

Maximum Output Power

500 W at 100 Hz, THD=1%, RL=8Ω

650 W at 100 Hz, 20 ms nonclip RL=8Ω

Input Sensitivity/Impedance

+4 dB/30 kΩ (channels A and B)

Controls

LEVEL Control

CUTOFF FREQ. Control: 80–100 Hz (Variable)

PHASE Switch: (REV/NORM)

POWER Switch: ON/OFF

Connectors

INPUT A ,B (XLR-3-31), OUTPUT THRU A, B (XLR-3-32)

OUTPUT HIGH PASS A ,B (XLR-3-32): Impedance 150Ω

Power Indicator

Green LED

Clip Indicator

Red LED

Power Requirement

USA and Canada: AC 120 V, 60 Hz

Europe: AC 230 V, 50 Hz

Others: AC 240 V, 50 Hz

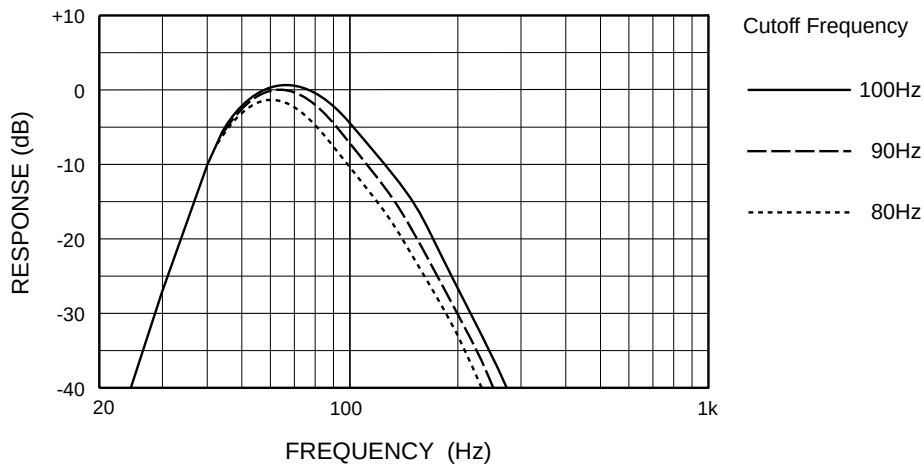
Power Consumption

200 W

* 0 db=0.775 V

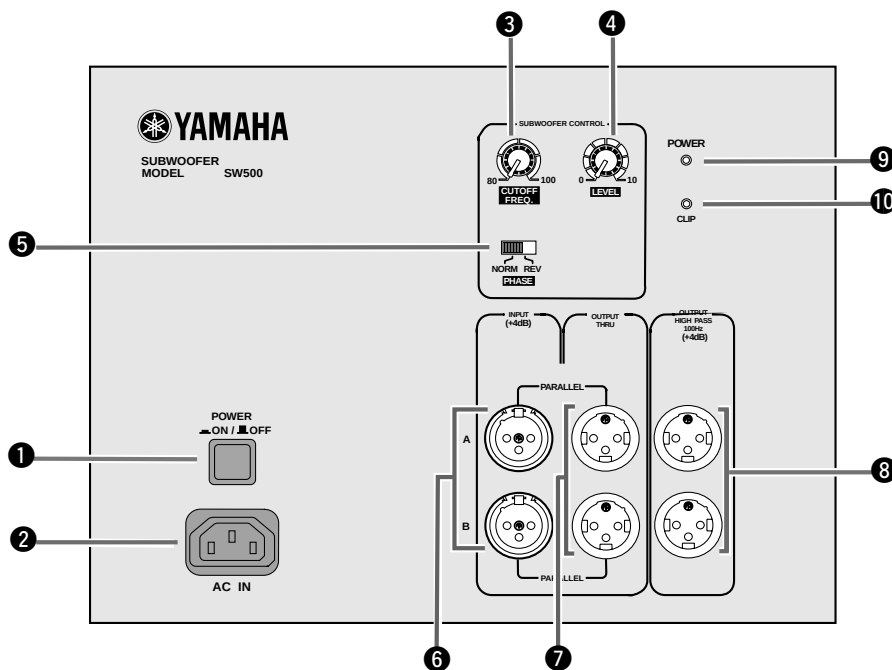
■ PERFORMANCE GRAPH

Standard frequency response



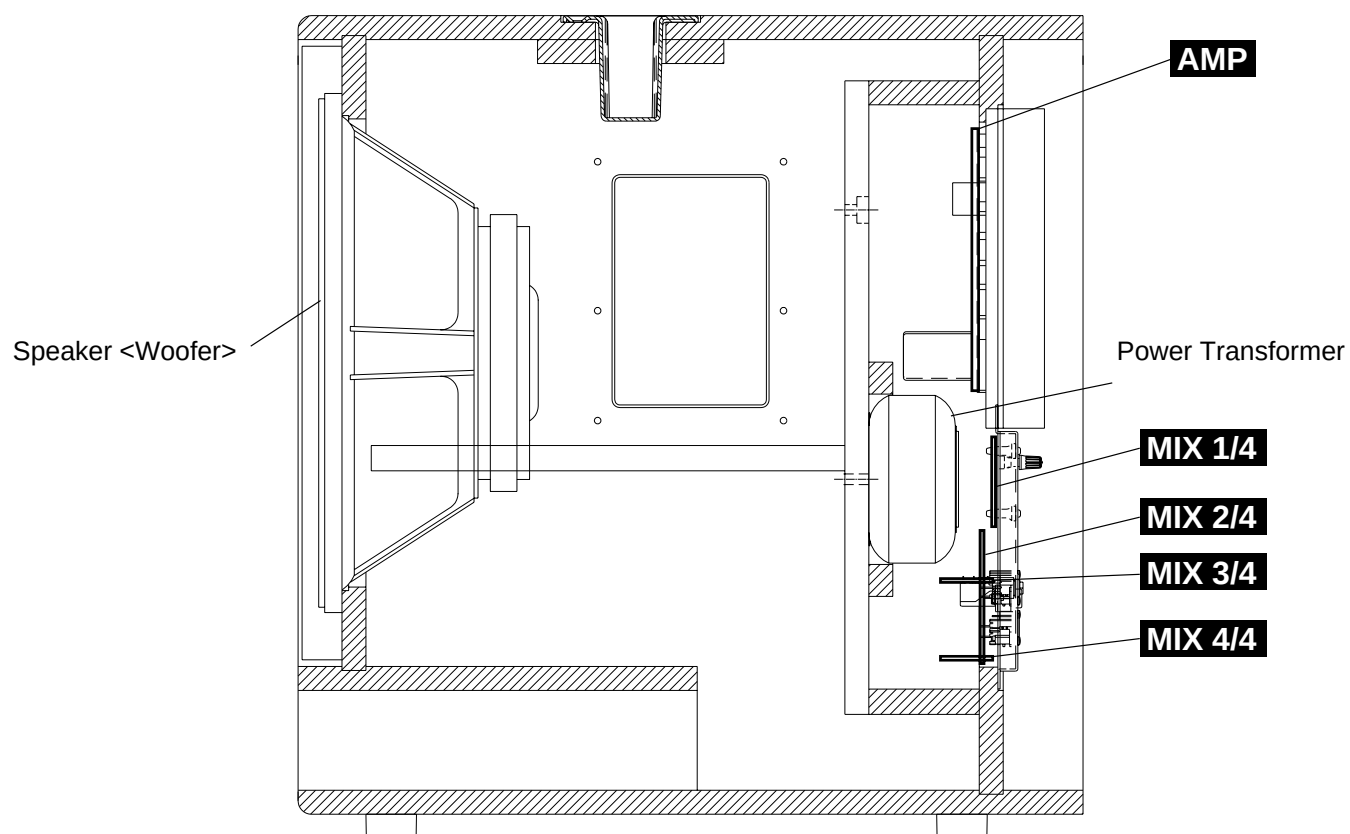
■ PANEL LAYOUT

• Rear Panel

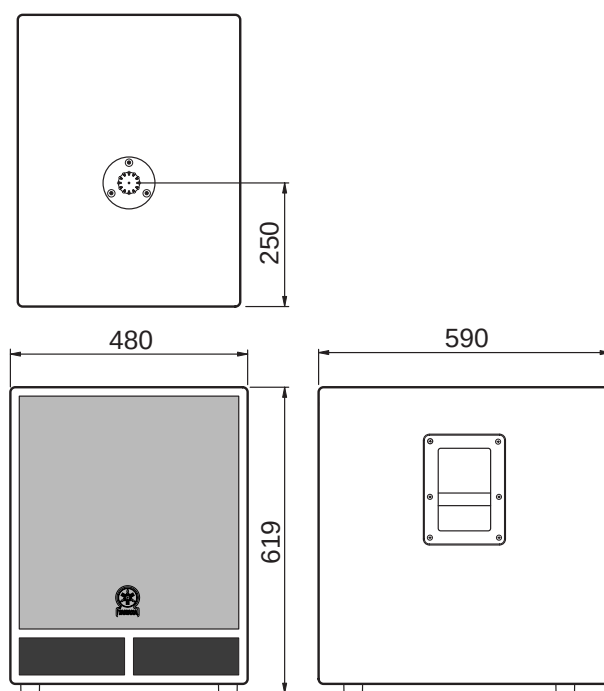


- ① [POWER] switch
- ② [AC IN] connector
- ③ [CUTOFF FREQ.] control
- ④ [LEVEL] control
- ⑤ [PHASE] switch
- ⑥ [INPUT] jacks A and B
- ⑦ [OUTPUT THRU] jacks A and B
- ⑧ [OUTPUT HIGH PASS] jacks A and B
- ⑨ [POWER] indicator
- ⑩ [CLIP] indicator

■ CIRCUIT BOARD LAYOUT

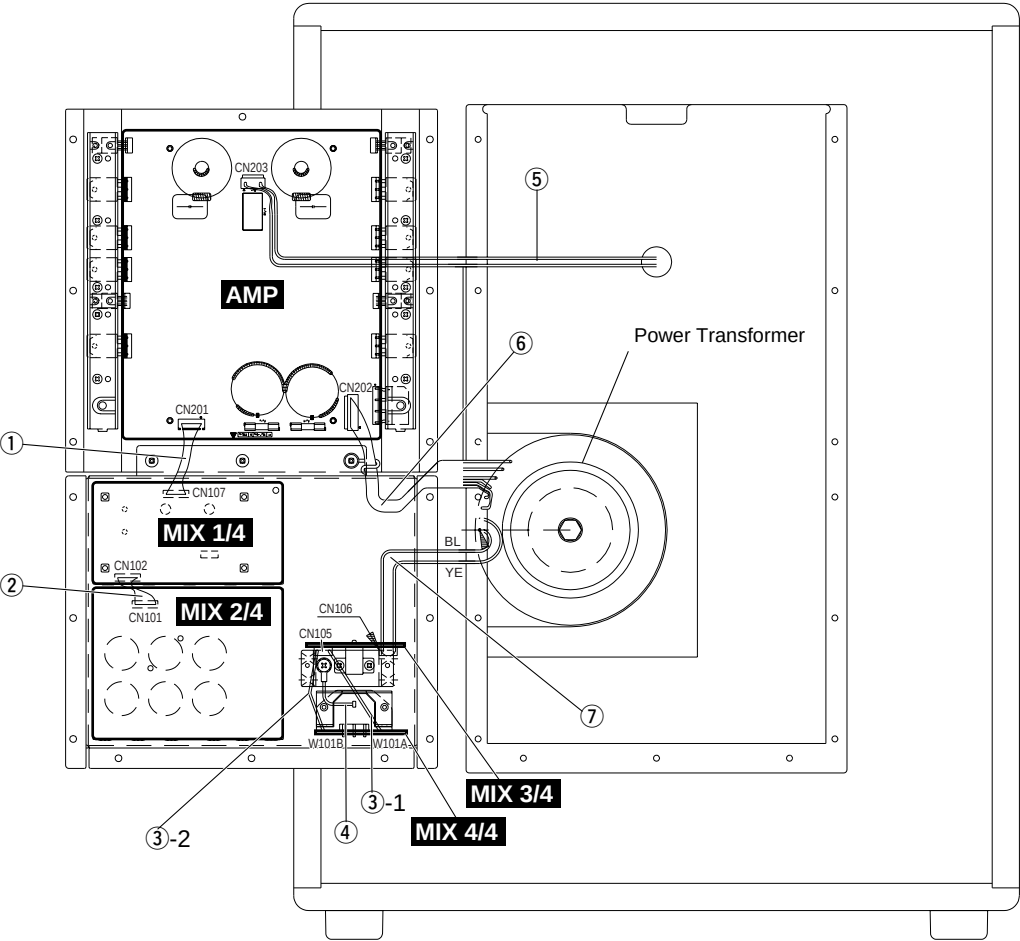


■ DIMENSIONS

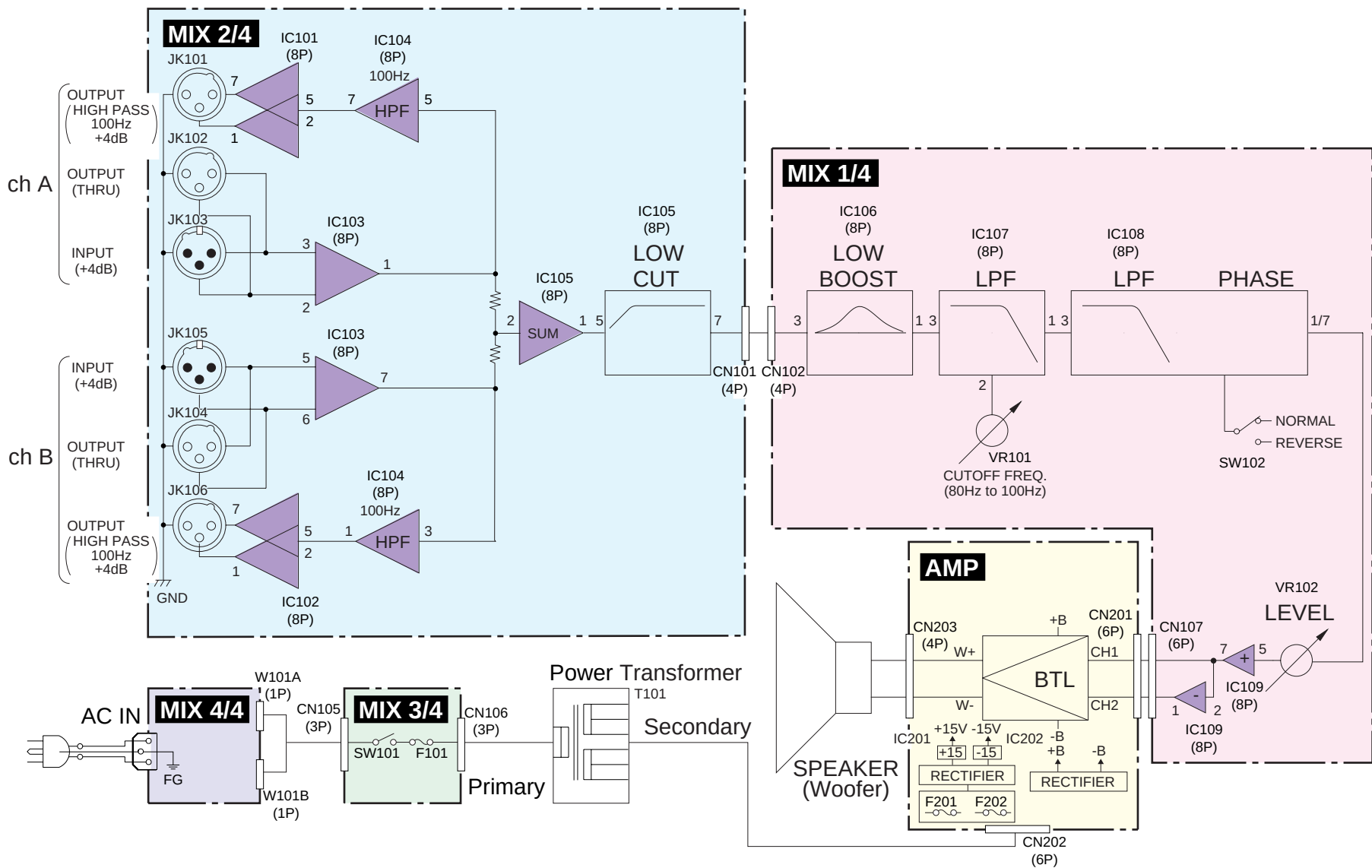


Units: mm

WIRING



Location	Unit Name	Parts List Ref No.	Part No.	Connector Assembly	Destination		Remarks	Availability
①	MIX 1/4 Circuit Board	CN107	V8247600	—	MIX 1/4-CN107	AMP-CN201	6P-100L	○
②	MIX 2/4 Circuit Board	CN101	(V791650)	—	MIX 2/4-CN101	MIX 1/4-CN102	4P-60L	
③-1	MIX 4/4 Circuit Board	W101	(V606230)	AC	MIX 4/4-W101A	MIX 3/4-CN105	2P	
③-2					MIX 4/4-W101B			
④	MIX 4/4 Circuit Board	—	(V676790)	SGND	MIX 4/4-JK107	Rear Panel (GND)	1P	
⑤	Cabinet Assembly	C10	(MZY0144)	SP	Speaker	AMP-CN203	2P	
⑥	Power Transformer	—	—	—	Power Transformer	AMP-CN202	6P	
⑦	Power Transformer	—	—	—	Power Transformer	MIX 3/4-CN106	2P	



■ DISASSEMBLY PROCEDURE

1. Speaker (Woofer) (Time required: About 10 minutes)

- 1-1 Remove the eight (8) screws marked [60]. The front grille assembly can then be removed. (Fig.1)
- 1-2 Remove the eight (8) cap screws marked [C90]. The speaker (woofer) can then be removed. (Fig.1)
- 1-3 Remove the SP connector assembly (red/black) installed to the speaker (woofer). (Photo.1)

<Front View>

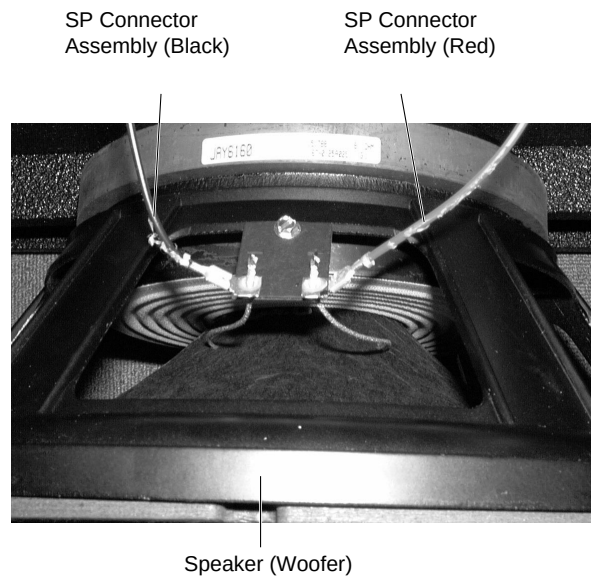
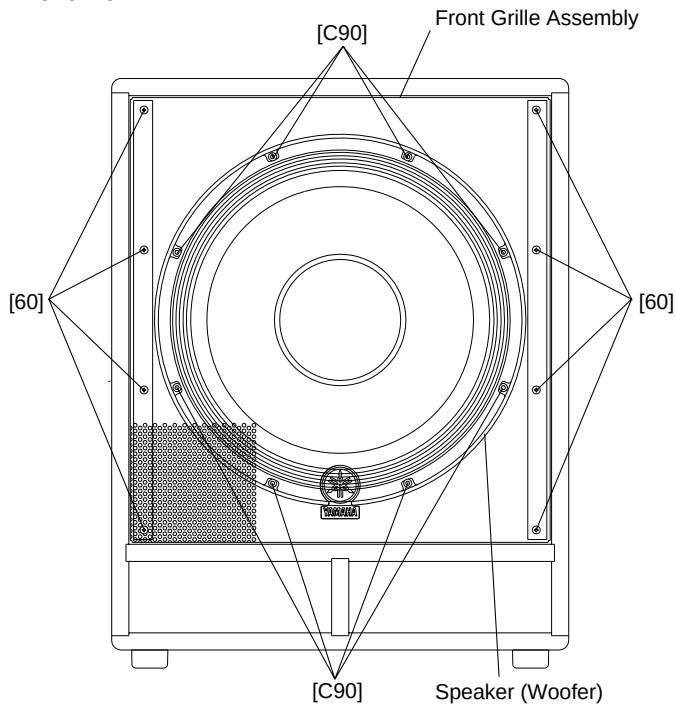


Photo.1

[60]: Cup Head Tapping Screw-1
4.0X16 MFZN2BL (V8889600)

[C90]: Cap Screw
#10X1-1/2 BL Z (EKY01010)

Fig.1

2. Amplifier Assembly (Time required: About 5 minutes)

- 2-1 Remove the sixteen (16) screws marked [30]. The amplifier assembly can then be removed. (Fig.2)

3. Power Transformer (Time required: About 10 minutes)

- 3-1 Remove the amplifier assembly. (See procedure 2.)
3-2 Remove the hexagonal bolt marked [A]. The power transformer can then be removed. (Fig.3, 4)

4. AMP Circuit Board (Time required: About 15 minutes)

- 4-1 Remove the amplifier assembly. (See procedure 2.)
4-2 Remove the five (5) screws marked [A80A] in right and left each. The right and left transistor holders can then be removed. (Fig.3)
4-3 Remove the four (4) screws marked [A90]. The AMP circuit board can then be removed. (Fig.3)

5. MIX 1/4 Circuit Board (Time required: About 10 minutes)

- 5-1 Remove the knobs marked [A150] and [A160] from the rear panel side. (Fig.2)
5-2 Remove the amplifier assembly. (See procedure 2.)
5-3 Remove the four (4) screws marked [A190]. The MIX 1/4 circuit board can then be removed with the four (4) PCB supports. (Fig.2, 3)
5-4 Remove the four (4) PCB supports from the MIX 1/4 circuit board. (Fig.3)

6. MIX 2/4 Circuit Board (Time required: About 15 minutes)

- 6-1 Remove the amplifier assembly. (See procedure 2.)
6-2 Remove the twelve (12) screws marked [A100A]. The MIX 2/4 circuit board can then be removed. (Fig.2, 3)
6-3 Remove the MIX 1/4 circuit board. (See procedure 5.)
And then disconnect the connector (CN102) from the MIX 1/4 circuit board.

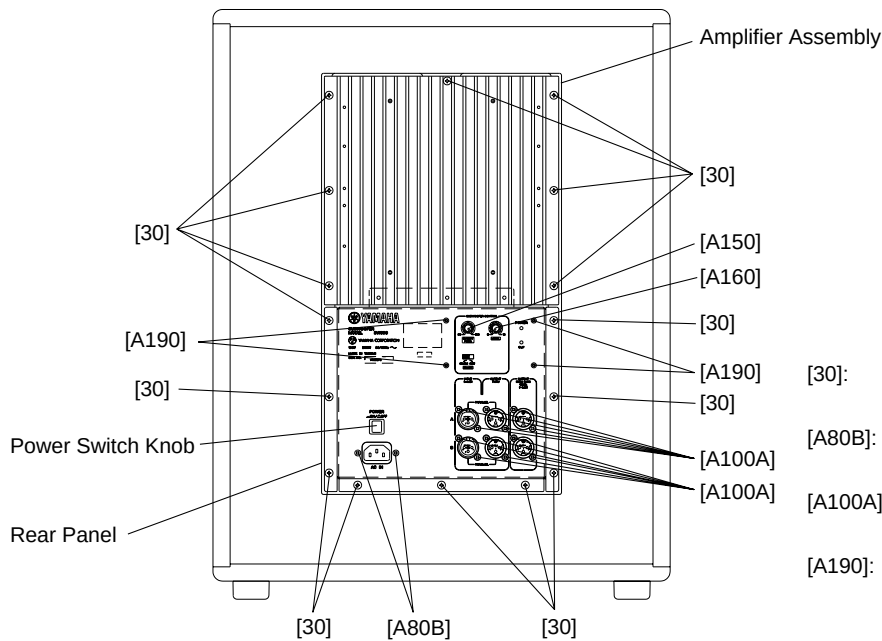
7. MIX 3/4 Circuit Board (Time required: About 10 minutes)

- 7-1 Remove the amplifier assembly. (See procedure 2.)
7-2 Remove the two (2) screws marked [A100B]. The MIX 3/4 circuit board and the power switch knob can then be removed. (Fig.2, 3)

8. MIX 4/4 Circuit Board (Time required: About 10 minutes)

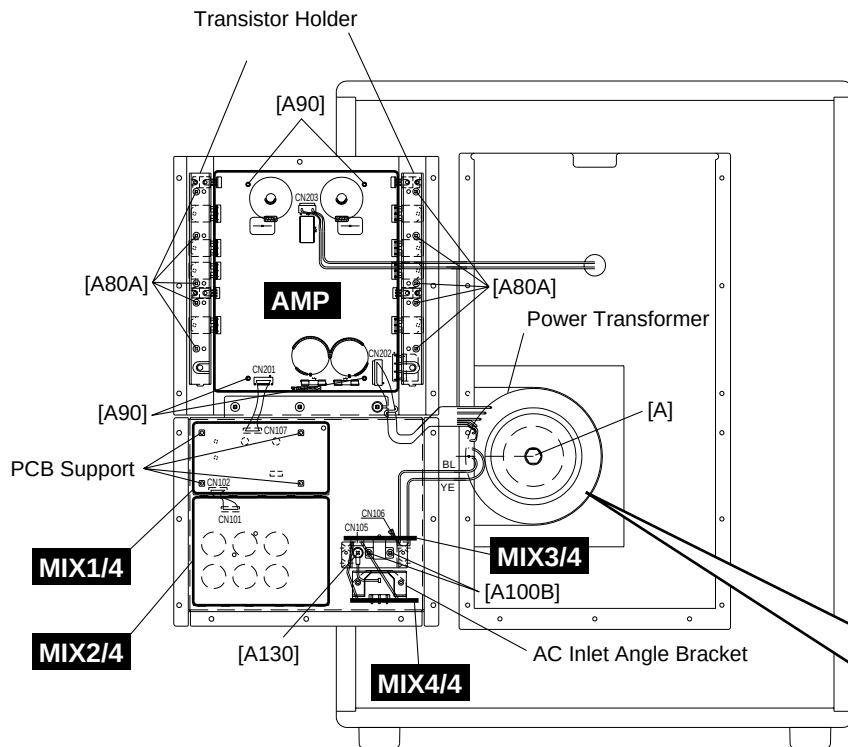
- 8-1 Remove the amplifier assembly. (See procedure 2.)
8-2 Remove the two (2) screws marked [A80B] and the screw marked [A130]. The MIX 4/4 circuit board and the AC inlet angle bracket can then be removed. (Fig.2, 3)

<Rear View>



- [30]: Bind Head Screw
4.0X25 MFZN2BL (VB923200)
- [A80B]: Bind Head Tapping Screw-B
3.0X12 MFZN2BL (VQ074600)
- [A100A]: Bonding Tapping Screw-B
3.0X8 MFZN2BL (VN413300)
- [A190]: Screw
3.0X25 MFZNBL (V3289800)

Fig.2



- [A80A]: Bind Head Tapping Screw-B
3.0X12 MFZN2BL (VQ074600)
- [A90]: Bind Head Screw
SP 3.0X8 MFZN2Y (EG330290)
- [A100B]: Bonding Tapping Screw-B
3.0X8 MFZN2BL (VN413300)
- [A130]: Bind Head Screw
A4.0X8 MFZN2BL (VP156800)

Fig.3

Power Transformer Installation

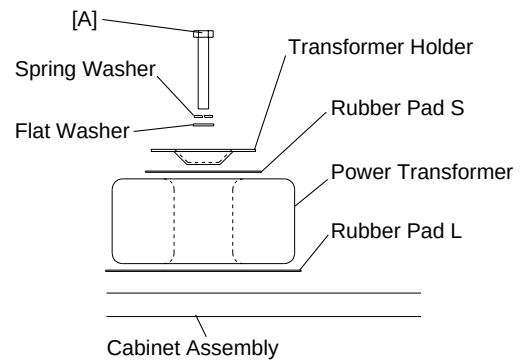
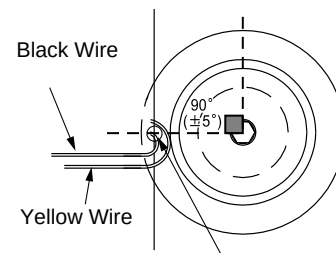


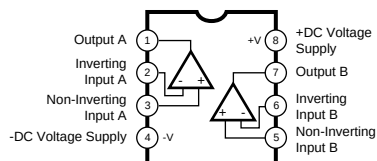
Fig.4



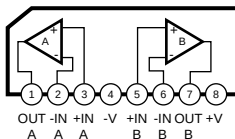
* Install the power transformer right next where the black wire of the left terminal is projecting.
(Error: $\pm 5^\circ$)

IC BLOCK DIAGRAM

- **M5238AP** (XM085A00)
Dual Operational Amplifier
MIX 2/4: IC103



- **NJM2068L-D** (XM356A00)
NJM4580L (XF195A00)
Dual Operational Amplifier
MIX 1/4: IC106-109
MIX 2/4: IC101,102,104,105

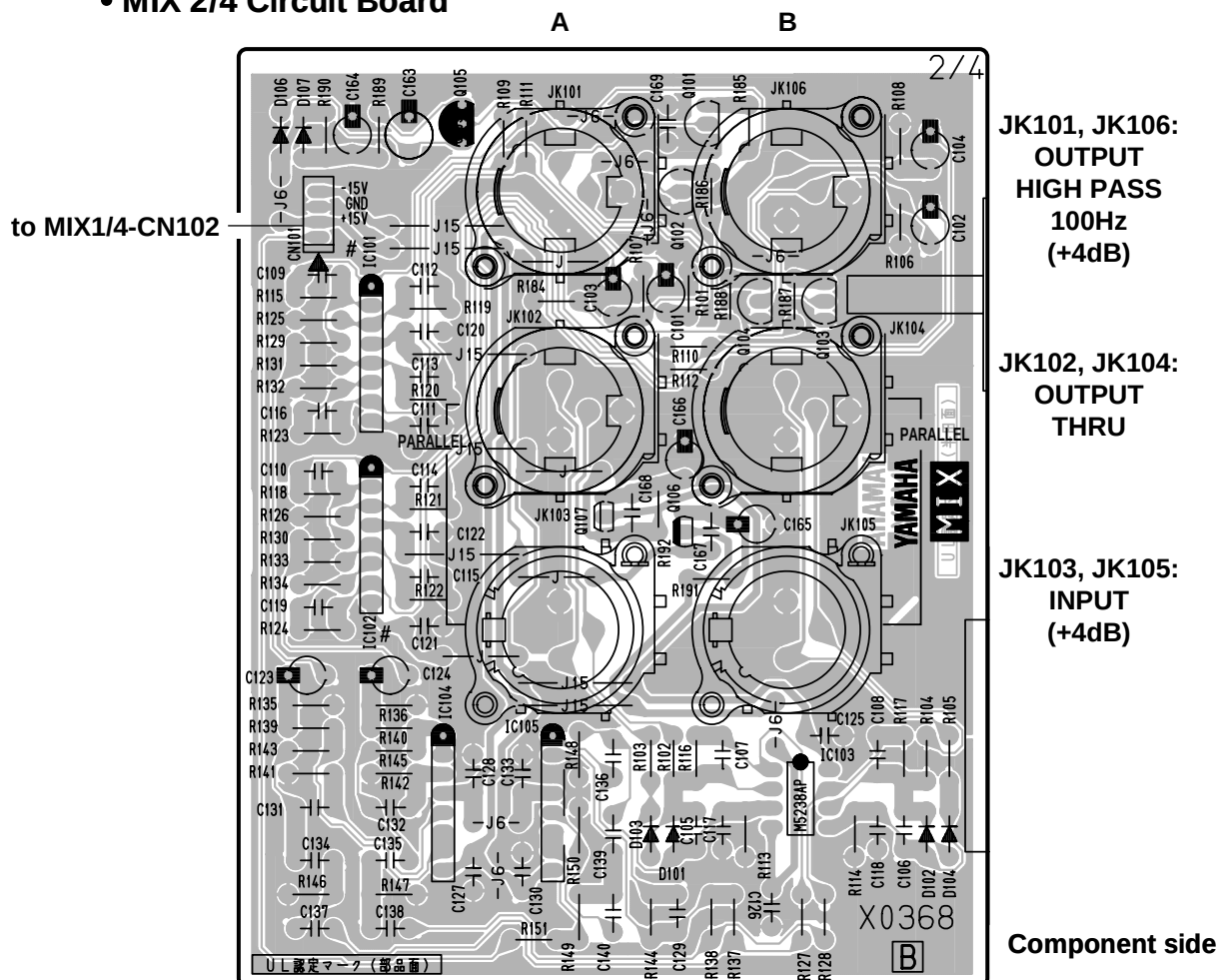


CIRCUIT BOARDS

AMP Circuit Board (X0155B0)	13
MIX 1/4 Circuit Board (X0368B0)	12
MIX 2/4 Circuit Board (X0368B0)	11
MIX 3/4 Circuit Board (X0368B0)	12
MIX 4/4 Circuit Board (X0368B0)	12

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

• MIX 2/4 Circuit Board



UL 認定マーク (部品面)

1/4

POWER

D105

RE

CLIP

LD101

GR

R156

C161

R177

R176

R175

R155

C162

R178

R174

C142

R157

R159

C144

R158

C141

R154

R153

R152

to AMP-CN201

CN107

IC109

-J6-

IC106

to MIX 2/4-CN101

+15V

GND

-15V

CN102

LEVEL

A20K

VR102

IC107

R173

R160

R180

R179

R181

R183

R182

C153

-J6-

C145

C143

-J6-

C146

C147

R161

R162

R193

C151

-J6-

PHASE (NORM/REV)

SW102

-J6-

C159

R171

R172

C160

R169

C154

R165

C148

R163

R164

C155

R170

R167

C156

C158

R168

VR101

C20K

CUTOFF FREQ.

IC108

-J6-

C150

-J6-

C149

X0368

B

Component side

ATTENTION
UTILISER UN
FUSIBLE DE
RECHANGE DE
MEME TYPE.

C157
10MS

B

3/4
X0368

N
G
AC

CN105

TRANS

AC IN

POWER
ON/OFF

CAUTION
TO REDUCE THE
RISK OF FIRE,
REPLACE ONLY
WITH SAME TYPE
FUSE.

F101

JU10A125V/HA T3.15AL

to Power Transformer

Component side

AC IN

former

TH01

TH02

J6

J101

Y101A

Y101B

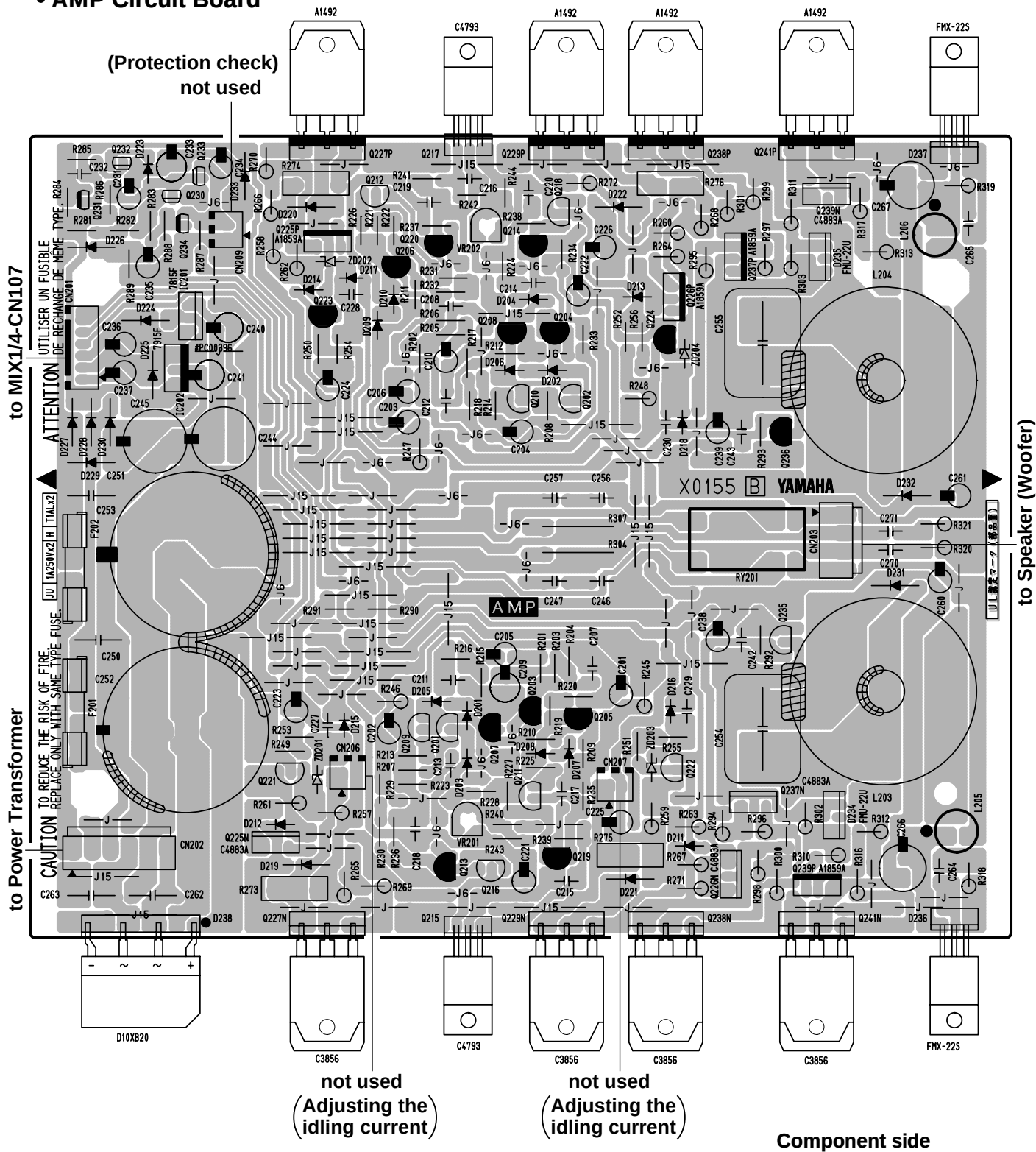
JK07

4/4

X0368 B 4/4

UL 認定マーク (部品面)

• AMP Circuit Board



■ INSPECTIONS

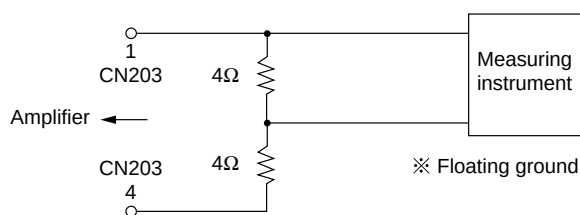
1. Measuring instruments

Oscilloscope, Level meter, Noise meter (with a DIN audio filter), Distortion rate meter, Wattmeter, Noninductive load resistance $4\ \Omega \times 2$ (power capacity: beyond 500W)

2. Preparation

- 1) LEVEL: MAX
CUTOFF FREQ.: MIN (80Hz)
PHASE SW: NORM

- 2) Connecting the measuring instrument: Float the ground and then connect the measuring instrument to the midpoint of the noninductive load resistance ($4\ \Omega \times 2$).



* Disconnect the connector assembly connected with the speaker from CN203.

3. Checks and adjustments

1) Muting operation

When turning the power switch on, check that the muting operation is cancelled within 3 ± 1 seconds and that the relay turns on. In addition, check that the power indicator turns on.

2) Adjusting the idling current

Adjust the VR201 and VR202 so that the voltage obtained between pins 1 and 2 of AMP PCB CN206 and CN207 is 1 ± 0.2 mV respectively.

3) Mid-point potential

When no signal is applied, check that the DC voltage of AMP PCB CN203 (VH4P) is ± 100 mV or less.

4) Gain/Efficiency

When a 50 Hz, 0 dBu signal is input into [INPUT A and B] terminals with an output voltage of $+28.3 \pm 1$ dBu, check that the primary power consumption is 410 ± 50 W. (Be sure to check both [INPUT A] and [INPUT B] terminals.) In addition, check that the output voltage of the [OUTPUT THRU A and B] terminals is 0 ± 1 dBu.

When a 1 kHz, 0 dBu signal is input into the [INPUT A and B] terminals, check that the output voltage of the [OUTPUT HIGH PASS A and B] terminals is 0.2 ± 0.5 dBu. (Be sure to apply a $600\ \Omega$ load with balance when performing this measurement.)

5) Total harmonic distortion rate

When a 100 Hz signal is input into the [INPUT A] terminal and the output voltage is 32.2 dBu, check that the total harmonic distortion rate is $\text{THD} + \text{N} = 1\%$ or less.

6) Output noise level

Ground the [INPUT A and B] terminals with $600\ \Omega$ of resistance, measure the noise level of the output terminal, and then check that the maximum noise level is -65 dBu or less.

In addition, measure the noise level from [OUTPUT HIGH PASS A and B] with balance and check that it is -90 dBu or less. Use a DIN audio filter with the noise meter.

7) Frequency response

When a 20 Hz, 30 Hz, 50 Hz, or 100 Hz (-20 dBu) signal is input into the [INPUT A] terminal and the 30 Hz and -20 dBu input time of the output voltage is the standard (0 dB), check that the frequency response is as shown in the following table.

Measure the frequency response with the [CUTOFF FREQ.] at 100 Hz (MAX) and 80 Hz (MIN).

Frequency (Hz)	CUTOFF FREQ.: 100Hz	CUTOFF FREQ.: 80Hz
20	-8.0 ± 2.0 dB	-8.0 ± 2.0 dB
30	0 dB	0 dB
50	$+6.5 \pm 2.0$ dB	$+5.5 \pm 2.0$ dB
100	-0.2 ± 2.0 dB	-5.8 ± 2.0 dB

8) PHASE switch

When the [PHASE] switch is set to REV, check that the phase changes by 180 degrees to accommodate the input signal.

9) Protection circuit

When DC +5 V (power output resistance = $10\ \text{k}\Omega$) is applied between pins 1 and 2 of AMP PCB CN209, check that the relay turns off within 1 second.

In addition, when the input signal is cut, check that the signal automatically returns within 10 seconds.

10) Clip indicator

When a 50 Hz, $+4.3$ dBu signal is input into the [INPUT A] terminal, check that the red LED is on.

4. Checking after assembly

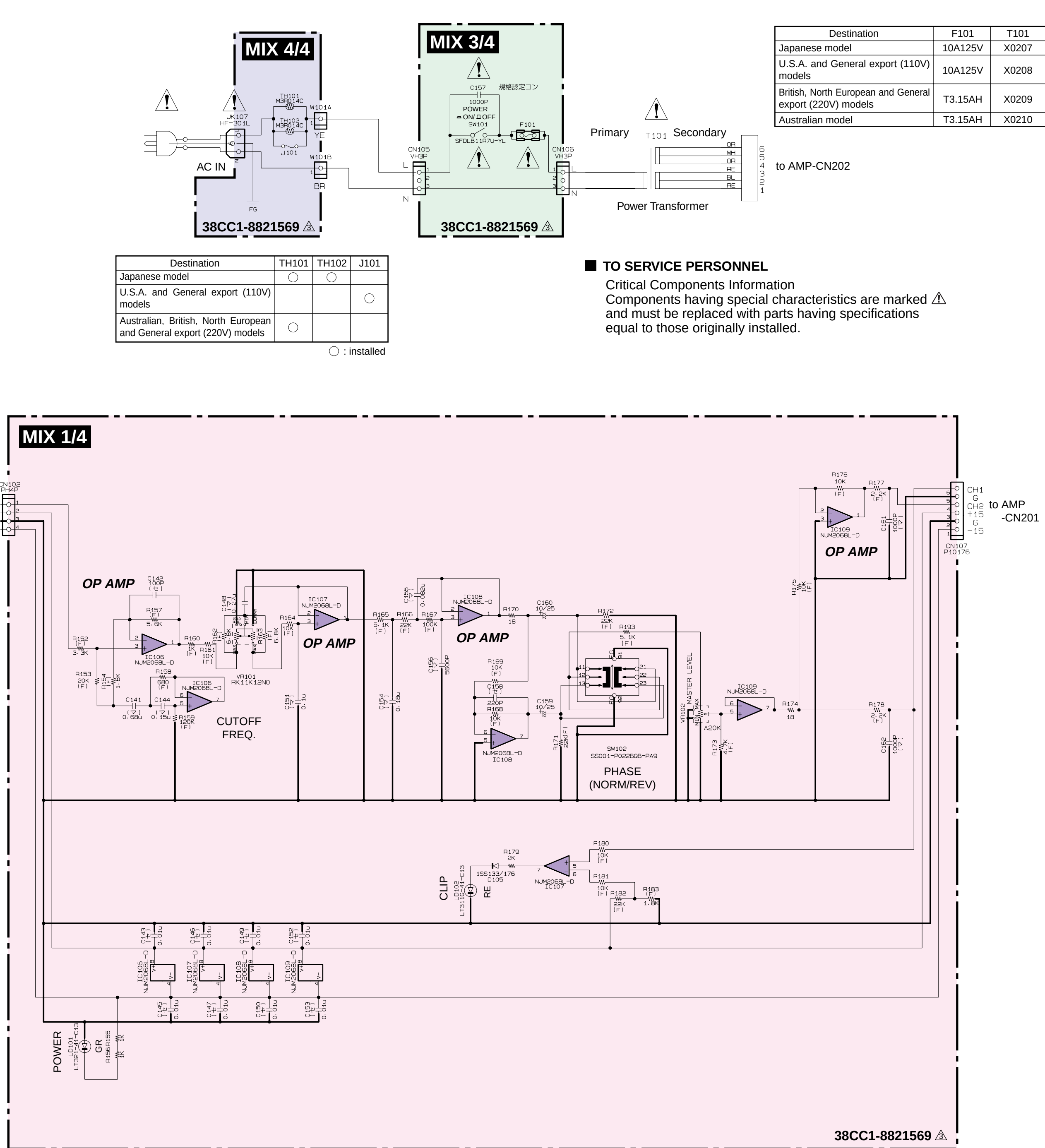
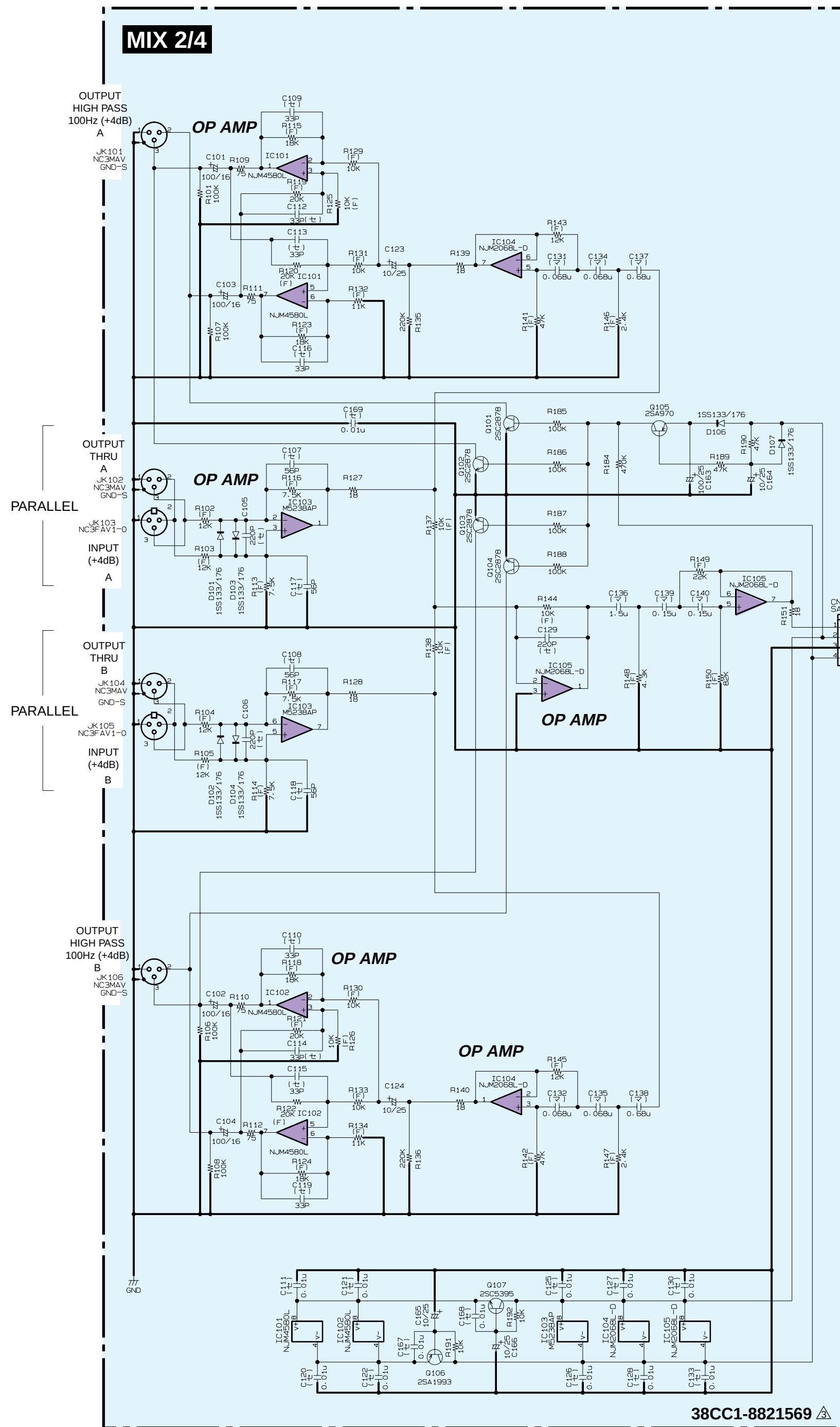
- 1) When a 20–500 Hz, 0.1 Vrms (-17.8 dBu) sine wave are input into the [INPUT A] terminal, check that no abnormality occurs, such as voice coil contact, air leakage, and vibration. In addition, when each knob is moved, check that the sound volume and quality vary smoothly and that no noise is produced.

2) Speaker output phase

Check that the output is in positive phase with respect to the input.

■ SW500 OVERALL CIRCUIT DIAGRAM 1/2 (MIX 1/4, MIX 2/4, MIX 3/4, MIX 4/4)

SW500

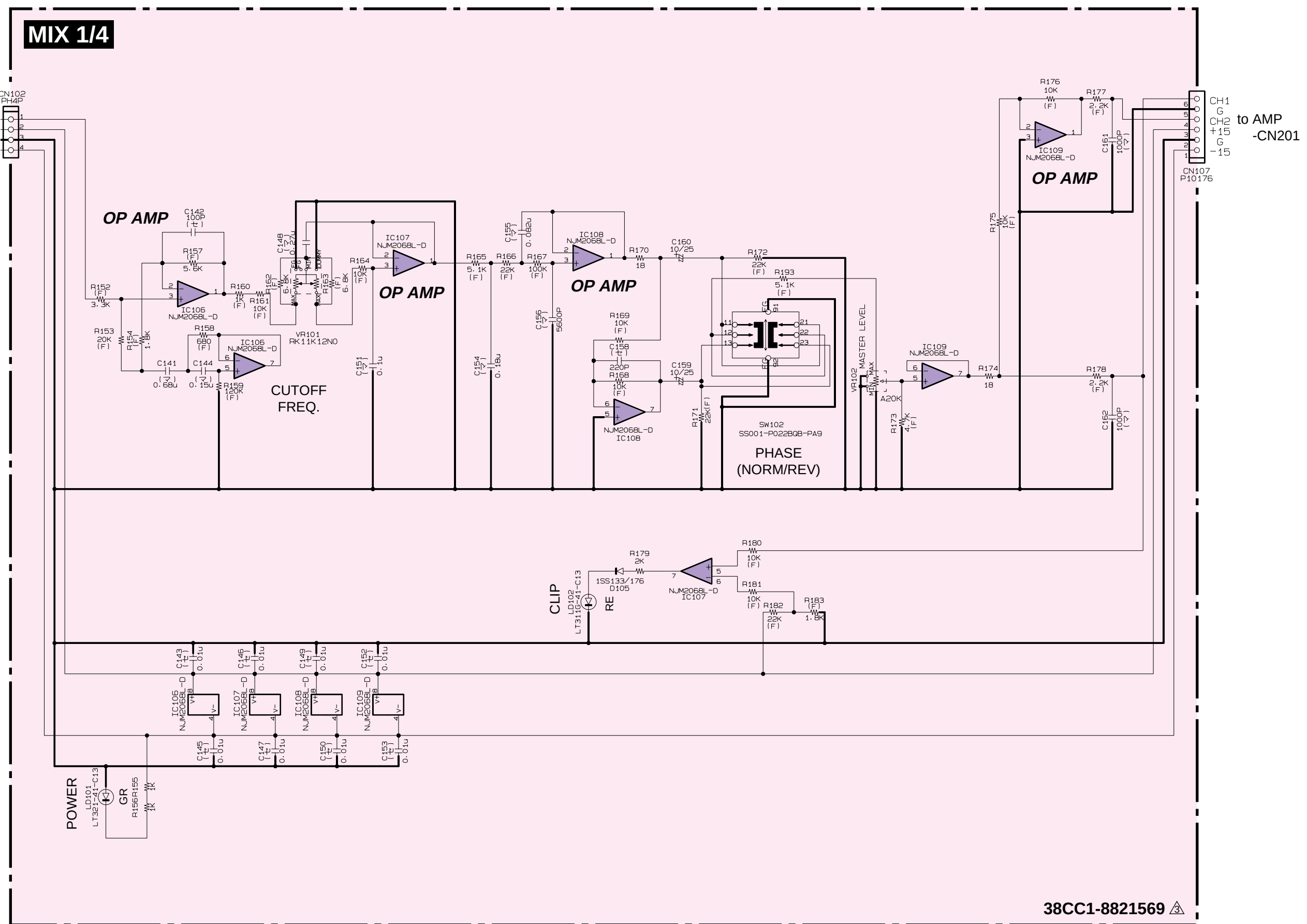


Destination	F101	T101
Japanese model	10A125V	X0207
U.S.A. and General export (110V) models	10A125V	X0208
British, North European and General export (220V) models	T3.15AH	X0209
Australian model	T3.15AH	X0210

Destination	TH101	TH102	J101
Japanese model	○	○	
U.S.A. and General export (110V) models			○
Australian, British, North European and General export (220V) models	○		

■ TO SERVICE PERSONNEL

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



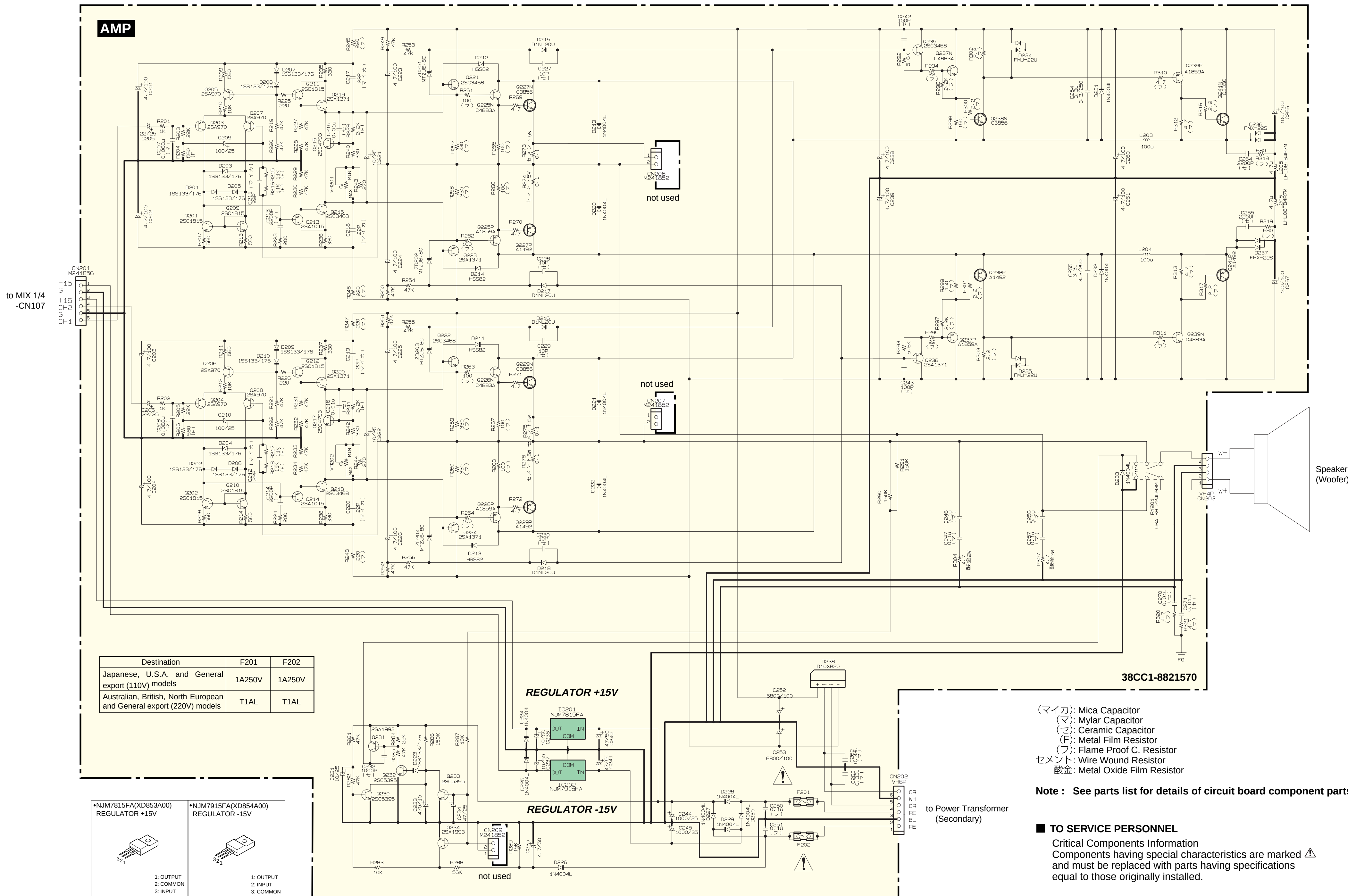
規格認定コン: Capacitor
(マ): Mylar Capacitor
(セ): Ceramic Capacitor
(F): Metal Film Resistor

(∇): Mylar Capacitor

(七): Ceramic Capacitor

(F): Metal Film Resistor

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



SUBWOOFER SW500 PARTS LIST

■ CONTENTS

OVERALL ASSEMBLY	2
ELECTRICAL PARTS	5

Notes : DESTINATION ABBREVIATIONS

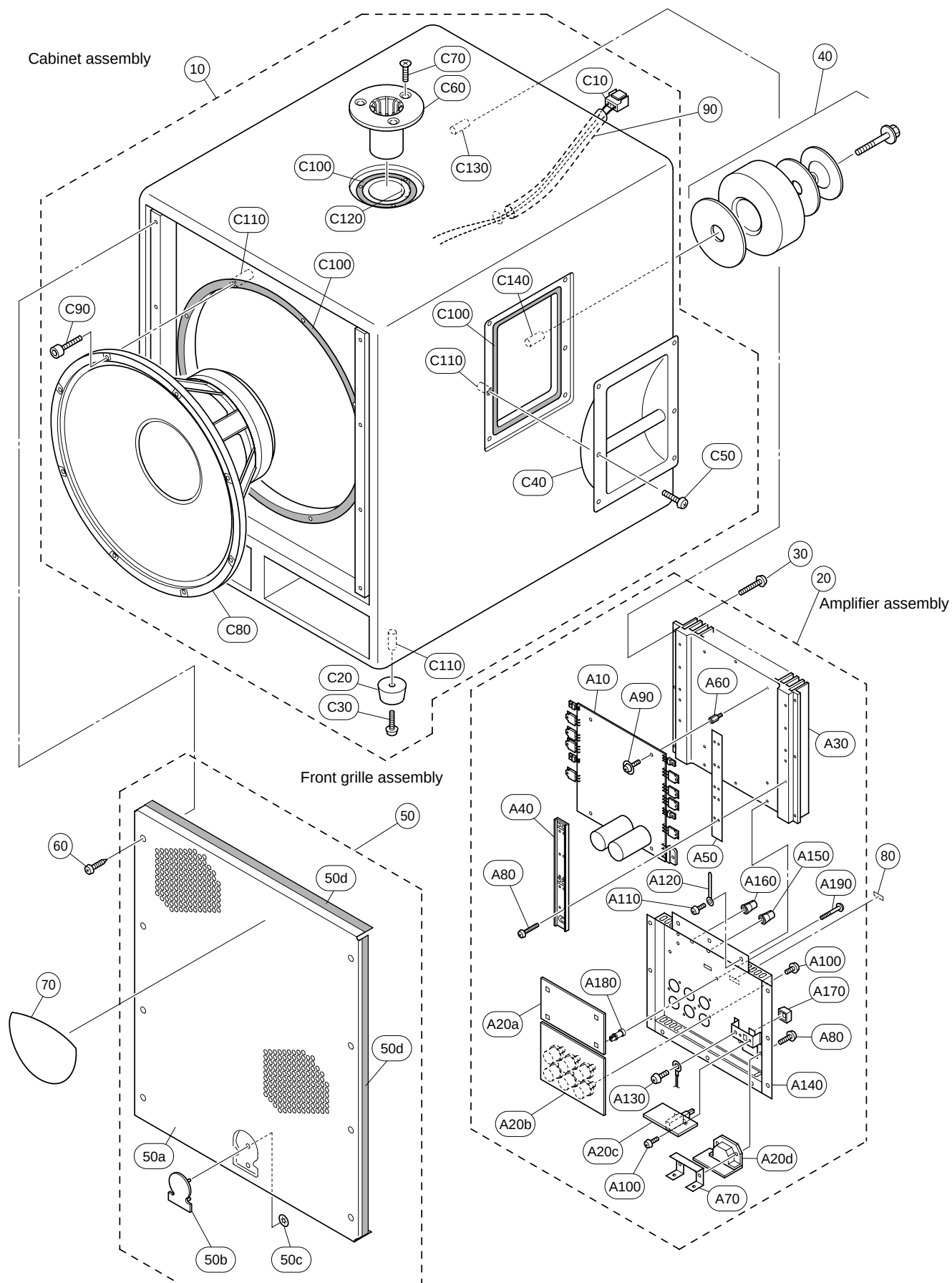
A : Australian model	M: South African model
B : British model	O : Chinese model
C : Canadian model	Q : South-east Asia model
D : German model	T : Taiwan model
E : European model	U : U.S.A. model
F : French model	V : General export model (110V)
H : North European model	W: General export model (220V)
I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

■ WARNING

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

- The numbers "QTY" show quantities for each unit.
- The parts with "--" in "PART NO." are not available as spare parts.
- This mark "}" in the REMARKS column means 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		SW500		
	--	Overall Assembly		J (V792730)		
	--	Overall Assembly		U,V (V792740)		
	--	Overall Assembly		H,B,W (V792750)		
	--	Overall Assembly		A (V792760)		
10	--	Cabinet Assembly		(V806960)		
20	--	Amplifier Assembly		J (V792800)		
20	--	Amplifier Assembly		U,V (V792810)		
20	--	Amplifier Assembly		H,B,W (V792820)		
20	--	Amplifier Assembly		A (V792830)		
30	VB923200	Bind Head Screw	4.0X25 MFZN2BL		16	01
40	X0207A00	Power Transformer		J		
40	X0208A00	Power Transformer		U,V		
40	X0209A00	Power Transformer		H,B,W		
40	X0210A00	Power Transformer		A		
50	V7968000	Front Grille Assembly				
50a	--	Front Grille		(V791790)		
50b	V6086300	Badge				
50c	V6290000	Push Nut	SPN-4		2	01
50d	--	Cushion		(V792150)	4	
60	V8889600	Cup Head Tapping Screw-1	4.0X16 MFZN2BL		8	
70	--	Grille Sticker		(V796560)		
80	--	Label	Date code	U,V (VA03930)		
90	--	Sumitube	Black 18.0X240	H,B,W (V888970)		
C10	--	Cabinet Assembly		(V806960)		
C20	--	Connector Assembly	SP 2P	(MZ0144)		
C30	CBY03890	Foot			4	02
C40	EKY00340	Pan Head Screw	#10-32X1-1/2 BL		4	01
C50	AA02200	Handle			2	08
C60	EKY01000	Pan Head Screw	#10-32X1 BL		12	03
C70	--	Tripod Support	TSM	(AA0253)		
C80	JAY61600	Flat Head Screw	1/4-20X1-1/4 BL	(EFMN203)	3	
C90	EKY01010	Speaker	380mm	Woofers	34	
C100	--	Cap Screw	#10X1-1/2 BL Z		8	01
C110	--	Packing		(CBY0148)	4	
C120	--	Nut	#10-32	(EKY0143)	24	
C130	--	Nut	1/4-20	(EKY0077)	3	
C140	--	Nut	M4	(ENG8161)	16	
	--	Nut	M8	(ENTA321)		
	--	Amplifier Assembly		J (V792800)		
	--	Amplifier Assembly		U,V (V792810)		
	--	Amplifier Assembly		H,B,W (V792820)		
	--	Amplifier Assembly		A (V792830)		
A10	V7921200	Circuit Board	AMP	J,U,V		
A10	V7921300	Circuit Board	AMP	H,B,W,A		
A20a	AAX31260	Circuit Board	MIX 1/4	(V791620,V880400,V791640)		
A20b	AAX31270	Circuit Board	MIX 2/4	(V791620,V880400,V791640)		
A20c	AAX31280	Circuit Board	MIX 3/4	J,U,V (V791620,V880400)		
A20d	AAX31290	Circuit Board	MIX 3/4	H,B,W,A (V791640)		
A20d	AAX31300	Circuit Board	MIX 4/4	J (V791620)		
A20d	AAX31600	Circuit Board	MIX 4/4	U,V (V880400)		
A20d	AAX31610	Circuit Board	MIX 4/4	H,B,W,A (V791640)		
A30	V7681700	Heat Sink				
A40	--	Transistor Holder		(V608650)	2	
A50	V6074700	Insulation Sheet	TBM51W T=0.15		2	03
A60	VV086500	Support	H=7.4 B=5.5		4	01
A70	--	Angle Bracket, AC Inlet		(V809880)		
A80	VQ074600	Bind Head Tapping Screw-B	3.0X12 MFZN2BL		12	01
A90	EG330290	Bind Head Screw	SP 3.0X8 MFZN2Y		4	01
A100	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		14	01
A110	VR779900	Bonding Tapping Screw-B	4.0X8 MFZN2BL		3	01
A120	--	Cord Binder	WC-3-MT	(V460710)		
A130	VP156800	Bind Head Screw	A4.0X8 MFZN2BL			01
A140	V7683700	Rear Panel		J		
A140	V7683800	Rear Panel		U,V		
A140	V7683900	Rear Panel		H,B,W		
A140	V7684000	Rear Panel		A		
A150	VU860200	Knob	MX-GREEN/D-GRAY	CUTOFF FREQ.		01

*: New Parts

RANK: Japan only

*: New Parts

4

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
		ELECTRICAL PARTS		SW500		
*	V7921200	Circuit Board	AMP	J,U,V (X0155B0)		
*	V7921300	Circuit Board	AMP	H,B,W,A (X0155B0)		
*	AAX31260	Circuit Board	MIX 1/4	(V791620,V880400,V791640)		
				(X0368B0)		
*	AAX31270	Circuit Board	MIX 2/4	(V791620,V880400,V791640)		
				(X0368B0)		
*	AAX31280	Circuit Board	MIX 3/4	J,U,V (V791620,V880400)		
				(X0368B0)		
*	AAX31290	Circuit Board	MIX 3/4	H,B,W,A (V791640)(X0368B0)		
*	AAX31300	Circuit Board	MIX 4/4	J (V791620)(X0368B0)		
*	AAX31600	Circuit Board	MIX 4/4	U,V (V880400)(X0368B0)		
*	AAX31610	Circuit Board	MIX 4/4	H,B,W,A (V791640)(X0368B0)		
*	V7921200	Circuit Board	AMP	J,U,V (X0155B0)		
*	V7921300	Circuit Board	AMP	H,B,W,A (X0155B0)		
	VV319600	Fuse Holder	CQ-05CT		4	01
C201	V7079300	Electrolytic Cap.	4.7 100.0V			01
-204	V7079300	Electrolytic Cap.	4.7 100.0V			01
C205	V6638400	Electrolytic Cap.	22.00 25.0V			02
C206	V6638400	Electrolytic Cap.	22.00 25.0V			02
C207	VV062600	Mylar Capacitor	0.068 50V J			01
C208	VV062600	Mylar Capacitor	0.068 50V J			01
C209	V6638300	Electrolytic Cap.	100.00 25.0V			02
C210	V6638300	Electrolytic Cap.	100.00 25.0V			02
C211	FU451220	Mica Capacitor	22P 500V J			01
C212	FU451220	Mica Capacitor	22P 500V J			01
C213	VV060300	Mylar Capacitor	2200P 50V J			01
C214	VV060300	Mylar Capacitor	2200P 50V J			01
C215	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C216	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C217	FU451220	Mica Capacitor	22P 500V J			01
-220	FU451220	Mica Capacitor	22P 500V J			01
C221	V7079700	Electrolytic Cap.	10.0 25.0V			01
C222	V7079700	Electrolytic Cap.	10.0 25.0V			01
C223	V7079300	Electrolytic Cap.	4.7 100.0V			01
-226	V7079300	Electrolytic Cap.	4.7 100.0V			01
C227	V4567500	Ceramic Capacitor-SL	10P 500V K			
-230	V4567500	Ceramic Capacitor-SL	10P 500V K			
C231	V7079700	Electrolytic Cap.	10.0 25.0V			01
C232	VZ353900	Ceramic Cap.-B	1000P 50V K			01
C233	UR828470	Electrolytic Cap.	470.00 10.0V			01
C234	UR847470	Electrolytic Cap.	47.00 25.0V			01
C235	UR866470	Electrolytic Cap.	4.70 50.0V			01
C236	V7079500	Electrolytic Cap.	10.0 50.0V			01
C237	V7079500	Electrolytic Cap.	10.0 50.0V			01
C238	V7079300	Electrolytic Cap.	4.7 100.0V			01
C239	V7079300	Electrolytic Cap.	4.7 100.0V			01
C240	V7079600	Electrolytic Cap.	47.0 50.0V			01
C241	V7079600	Electrolytic Cap.	47.0 50.0V			01
C242	V3280500	Ceramic Capacitor-B	100P 500 K			01
C243	V3280500	Ceramic Capacitor-B	100P 500 K			01
C244	V8564000	Electrolytic Cap.	1000 35.0V			
C245	V8564000	Electrolytic Cap.	1000 35.0V			
C246	V5868900	Mylar Capacitor	0.1 50V J			
C247	V5868900	Mylar Capacitor	0.1 50V J			
C250	VZ004200	Mylar Capacitor	0.1000 100V M			01
C251	VZ004200	Mylar Capacitor	0.1000 100V M			01
C252	VY897000	Electrolytic Cap.	6800 100V			08
C253	VY897000	Electrolytic Cap.	6800 100V			08
C254	V5097700	Mylar Capacitor	3.3000 250V K			05
C255	V5097700	Mylar Capacitor	3.3000 250V K			05
C256	V5868900	Mylar Capacitor	0.1 50V J			
C257	V5868900	Mylar Capacitor	0.1 50V J			
C260	V7079300	Electrolytic Cap.	4.7 100.0V			01
C261	V7079300	Electrolytic Cap.	4.7 100.0V			01
C262	V3148500	Mylar Capacitor	0.33 250V M			01
C263	V3148500	Mylar Capacitor	0.33 250V M			01
C264	VZ354300	Ceramic Capacitor-E	0.0022 500 M			01
C265	VZ354300	Ceramic Capacitor-E	0.0022 500 M			01

*: New Parts

RANK: Japan only



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
C266	V7079400	Electrolytic Cap.	100.0 100.0V			01
C267	V7079400	Electrolytic Cap.	100.0 100.0V			01
C270	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C271	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CN201	V3764400	Connector Base Post	M24185XX 6P TE			
CN202	LB932060	Base Post Connector	VH 6P TE			01
CN203	LB932040	Base Post Connector	VH 4P TE			01
CN206	V3764000	Connector Base Post	M24185XX 2P TE			
CN207	V3764000	Connector Base Post	M24185XX 2P TE			
CN209	V3764000	Connector Base Post	M24185XX 2P TE			
D201	VD631600	Diode	1SS133,176,HSS104			01
-210	VD631600	Diode	1SS133,176,HSS104			01
D211	VQ469600	Diode	HSS82			01
-214	VQ469600	Diode	HSS82			01
D215	VN478200	Diode	D1NL20U			01
-218	VN478200	Diode	D1NL20U			01
D219	VU801600	Diode	1N4004L 26			01
-222	VU801600	Diode	1N4004L 26			01
D223	VD631600	Diode	1SS133,176,HSS104			01
D224	VU801600	Diode	1N4004L 26			01
-233	VU801600	Diode	1N4004L 26			01
D234	V4816400	Diode Stack	FMU-22U 10A 200V			03
D235	V4816400	Diode Stack	FMU-22U 10A 200V			03
D236	VS135800	Diode Stack	FMX-22S 10.0A 200V			03
D237	VS135800	Diode Stack	FMX-22S 10.0A 200V			03
D238	V2954200	Diode Stack	D10XB20 10.0A 200V			04
F201	VV070300	Fuse	TDS 1A 250V J/U/C	J,U,V		01
F201	VV071200	Fuse	TSD 1A 250V SEMKO	H,B,W,A		01
F202	VV070300	Fuse	TDS 1A 250V J/U/C	J,U,V		01
F202	VV071200	Fuse	TSD 1A 250V SEMKO	H,B,W,A		01
IC201	XD853A00	IC	NJM7815FA	REGULATOR +15V		03
IC202	XD854A00	IC	NJM7915FA	REGULATOR -15V		03
L203	V4668300	Coil	OH-20 100uH			08
L204	V4668300	Coil	OH-20 100uH			08
L205	VR769600	Coil	LH L 08TB4R7M 4.7u			01
L206	VR769600	Coil	LH L 08TB4R7M 4.7u			01
Q201	IC1815M0	Transistor	2SC1815 Y,GR			01
Q202	IC1815M0	Transistor	2SC1815 Y,GR			01
Q203	IA097040	Transistor	2SA970 GR			01
Q204	IA097040	Transistor	2SA970 GR			01
Q205	IA097030	Transistor	2SA970 GR,BL			01
Q206	IA097030	Transistor	2SA970 GR,BL			01
Q207	IA097040	Transistor	2SA970 GR			01
Q208	IA097040	Transistor	2SA970 GR			01
Q209	IC1815M0	Transistor	2SC1815 Y,GR			01
-212	IC1815M0	Transistor	2SC1815 Y,GR			01
Q213	IA101590	Transistor	2SA1015 O,Y			01
Q214	IA101590	Transistor	2SA1015 O,Y			01
Q215	VQ547300	Transistor	2SC4793 (HFE)			03
Q216	VU418600	Transistor	2SC3468 D,E			01
Q217	VQ547300	Transistor	2SC4793 (HFE)			03
Q218	VU418600	Transistor	2SC3468 D,E			01
Q219	VU418400	Transistor	2SA1371 D,E			01
Q220	VU418400	Transistor	2SA1371 D,E			01
Q221	VU418600	Transistor	2SC3468 D,E			01
Q222	VU418600	Transistor	2SC3468 D,E			01
Q223	VU418400	Transistor	2SA1371 D,E			01
Q224	VU418400	Transistor	2SA1371 D,E			01
Q225N	VR732800	Pair Transistor	A1859A/C4883A	} Pair		04
Q225P	VR732800	Pair Transistor	A1859A/C4883A			04
Q226N	VR732800	Pair Transistor	A1859A/C4883A	} Pair		04
Q226P	VR732800	Pair Transistor	A1859A/C4883A			04
Q227N	VZ222300	Pair Transistor	A1492C3856(Z)(210)	} Pair		06
Q227P	VZ222300	Pair Transistor	A1492C3856(Z)(210)			06
Q229N	VZ222300	Pair Transistor	A1492C3856(Z)(210)	} Pair		06
Q229P	VZ222300	Pair Transistor	A1492C3856(Z)(210)			06
Q230	V2797700	Transistor	2SC5395 E,F			01
Q231	V2797600	Transistor	2SA1993 E,F			01
Q232	V2797700	Transistor	2SC5395 E,F			01
Q233	V2797700	Transistor	2SC5395 E,F			01

※: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
Q234	V2797600	Transistor	2SA1993 E,F			01
Q235	VU418600	Transistor	2SC3468 D,E			01
Q236	VU418400	Transistor	2SA1371 D,E			01
Q237N	VR732800	Pair Transistor	A1859A/C4883A	Pair		04
Q237P	VR732800	Pair Transistor	A1859A/C4883A			04
Q238N	VZ222300	Pair Transistor	A1492C3856(Z)(210)	Pair		06
Q238P	VZ222300	Pair Transistor	A1492C3856(Z)(210)			06
Q239N	VR732800	Pair Transistor	A1859A/C4883A	Pair		04
Q239P	VR732800	Pair Transistor	A1859A/C4883A			04
Q241N	VZ222300	Pair Transistor	A1492C3856(Z)(210)	Pair		06
Q241P	VZ222300	Pair Transistor	A1492C3856(Z)(210)			06
R201	HF456100	Carbon Resistor	1.0K 1/4 J			01
R202	HF456100	Carbon Resistor	1.0K 1/4 J			01
R203	HF457220	Carbon Resistor	22.0K 1/4 J			01
R204	VZ010600	Metal Film Resistor	560.0 1/4 F			01
R205	HF457220	Carbon Resistor	22.0K 1/4 J			01
R206	VZ010600	Metal Film Resistor	560.0 1/4 F			01
R207	HF455560	Carbon Resistor	560.0 1/4 J			01
-209	HF455560	Carbon Resistor	560.0 1/4 J			01
R210	HF457100	Carbon Resistor	10.0K 1/4 J			01
R211	HF455560	Carbon Resistor	560.0 1/4 J			01
R212	HF457100	Carbon Resistor	10.0K 1/4 J			01
R213	HF455560	Carbon Resistor	560.0 1/4 J			01
R214	HF455560	Carbon Resistor	560.0 1/4 J			01
R215	VV065600	Metal Film Resistor	11K 1/4 F			05
-218	VV065600	Metal Film Resistor	11K 1/4 F			05
R219	HF457470	Carbon Resistor	47.0K 1/4 J			01
-222	HF457470	Carbon Resistor	47.0K 1/4 J			01
R223	HF455200	Carbon Resistor	200.0 1/4 J			01
R224	HF455200	Carbon Resistor	200.0 1/4 J			01
R225	HF455220	Carbon Resistor	220.0 1/4 J			01
R226	HF455220	Carbon Resistor	220.0 1/4 J			01
R227	HF457470	Carbon Resistor	47.0K 1/4 J			01
-234	HF457470	Carbon Resistor	47.0K 1/4 J			01
R235	HF455330	Carbon Resistor	330.0 1/4 J			01
-238	HF455330	Carbon Resistor	330.0 1/4 J			01
R239	VV065100	Metal Film Resistor	2.2K 1/4 F			01
R240	HF455330	Carbon Resistor	330.0 1/4 J			01
R241	VV065100	Metal Film Resistor	2.2K 1/4 F			01
R242	HF455330	Carbon Resistor	330.0 1/4 J			01
R243	HF455270	Carbon Resistor	270.0 1/4 J			01
R244	HF455270	Carbon Resistor	270.0 1/4 J			01
R245	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
-248	VV313800	Flame Proof C. Resistor	220.0 1/4 J			01
R249	HF457470	Carbon Resistor	47.0K 1/4 J			01
-256	HF457470	Carbon Resistor	47.0K 1/4 J			01
R257	VZ009300	Flame Proof C. Resistor	330.0 1/4 J			01
-260	VZ009300	Flame Proof C. Resistor	330.0 1/4 J			01
R261	VV276800	Flame Proof C. Resistor	100 1/4 J			01
-268	VV276800	Flame Proof C. Resistor	100 1/4 J			01
R269	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
-272	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
R273	VZ370200	Wire Wound Resistor	0.1 5W K			01
-276	VZ370200	Wire Wound Resistor	0.1 5W K			01
R281	HF457470	Carbon Resistor	47.0K 1/4 J			01
R282	HF457470	Carbon Resistor	47.0K 1/4 J			01
R283	HF457100	Carbon Resistor	10.0K 1/4 J			01
R284	HF457220	Carbon Resistor	22.0K 1/4 J			01
R285	HF457470	Carbon Resistor	47.0K 1/4 J			01
R286	HF458150	Carbon Resistor	150.0K 1/4 J			01
R287	HF457100	Carbon Resistor	10.0K 1/4 J			01
R288	HF457560	Carbon Resistor	56.0K 1/4 J			01
R289	HF457150	Carbon Resistor	15.0K 1/4 J			01
R290	HF458150	Carbon Resistor	150.0K 1/4 J			01
R291	HF458150	Carbon Resistor	150.0K 1/4 J			01
R292	HF456560	Carbon Resistor	5.6K 1/4 J			01
R293	HF456560	Carbon Resistor	5.6K 1/4 J			01
R294	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R295	VZ008800	Flame Proof C. Resistor	22.0 1/4 J			01
R296	VZ008700	Flame Proof C. Resistor	2.2K 1/4 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R297	VZ008700	Flame Proof C. Resistor	2.2K 1/4 J			01
R298	VZ008600	Flame Proof C. Resistor	150.0 1/4 J			01
R299	VZ008600	Flame Proof C. Resistor	150.0 1/4 J			01
R300	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
-303	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R304	V2961000	Metal Oxide Film Resistor	4.7 2W J			01
R307	V2961000	Metal Oxide Film Resistor	4.7 2W J			01
R310	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
-313	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
R316	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R317	VV313600	Flame Proof C. Resistor	2.2 1/4 J			01
R318	VV313900	Flame Proof C. Resistor	680.0 1/4 J			01
R319	VV313900	Flame Proof C. Resistor	680.0 1/4 J			01
R320	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
R321	VV276700	Flame Proof C. Resistor	4.7 1/4 J			01
RY201	VV315400	Relay	DC24V OSASH224DM3M			06
VR201	VA787500	Trimmer Potentiometer	B 470 3P RHEOA			01
VR202	VA787500	Trimmer Potentiometer	B 470 3P RHEOA			01
ZD201	VG438400	Zener Diode	MTZ J 6.8C 6.8V			01
-204	VG438400	Zener Diode	MTZ J 6.8C 6.8V			01
*	AAX31260	Circuit Board	MIX 1/4	(V791620,V880400,V791640) (X0368B0)	2	01
	VV307300	LED Spacer	MX12/4			
C141	VV064300	Monolithic Mylar Capacitor	0.68 50V J			01
C142	V3280500	Ceramic Capacitor-B	100P 500 K			01
C143	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C144	V7079900	Monolithic Mylar Capacitor	0.15 50V J			
C145	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
-147	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
* C148	VV063800	Monolithic Mylar Capacitor	0.27 50V J			
C149	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C150	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C151	VV062800	Mylar Capacitor	0.1 50V J			01
C152	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C153	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C154	V7080000	Monolithic Mylar Capacitor	0.18 50V J			
C155	VV062700	Mylar Capacitor	0.082 50V J			01
C156	VV061000	Mylar Capacitor	5600P 50V J			01
C158	VZ353600	Ceramic Cap.-B	220P 50V K			01
C159	UR847100	Electrolytic Cap.	10.00 25.0V			01
C160	UR847100	Electrolytic Cap.	10.00 25.0V			01
C161	VV059800	Mylar Capacitor	1000P 50V J			08
C162	VV059800	Mylar Capacitor	1000P 50V J			08
CN102	VV066400	Connector Base Post	M2426XX 4P TE			01
* CN107	V8247600	Connector Assembly	1017&24185 6P 100L			
D105	VD631600	Diode	1SS133,176,HSS104			01
IC106	XM356A00	IC	NJM2068L-D	OP AMP		02
-109	XM356A00	IC	NJM2068L-D	OP AMP		02
LD101	VV621000	LED Green	LT321-41-C13	POWER		01
LD102	VV620800	LED Red	LT311G-41-C13	CLIP		01
R152	V4404000	Metal Film Resistor	3.3K 1/4 F			
R153	VV065800	Metal Film Resistor	20K 1/4 F			05
R154	V2336300	Metal Film Resistor	1.8K 1/4 F			01
R155	HF456100	Carbon Resistor	1.0K 1/4 J			01
R156	HF456100	Carbon Resistor	1.0K 1/4 J			01
R157	V2440300	Metal Film Resistor	5.6K 1/4 F			01
R158	VV312800	Metal Film Resistor	680.0 1/4 F			01
R159	V6570200	Metal Film Resistor	120K 1/4 F			
R160	V3029000	Metal Film Resistor	1K 1/4 F			01
R161	VV065500	Metal Film Resistor	10K 1/4 F			01
R162	VV065300	Metal Film Resistor	6.8K 1/4 F			01
R163	VV065300	Metal Film Resistor	6.8K 1/4 F			01
R164	VV065500	Metal Film Resistor	10K 1/4 F			01
R165	VZ010300	Metal Film Resistor	5.1K 1/4 F			01
R166	VV312900	Metal Film Resistor	22K 1/4 F			01
R167	V2348800	Metal Film Resistor	100K 1/4 F			01
R168	VV065500	Metal Film Resistor	10K 1/4 F			01
R169	VV065500	Metal Film Resistor	10K 1/4 F			01
R170	HF454180	Carbon Resistor	18.0 1/4 J			01

*: New Parts

RANK: Japan only

REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
R171	VV312900	Metal Film Resistor	22K 1/4 F			01
R172	VV312900	Metal Film Resistor	22K 1/4 F			01
R173	VV065200	Metal Film Resistor	4.7K 1/4 F			05
R174	HF454180	Carbon Resistor	18.0 1/4 J			01
R175	VV065500	Metal Film Resistor	10K 1/4 F			01
R176	VV065500	Metal Film Resistor	10K 1/4 F			01
R177	VV065100	Metal Film Resistor	2.2K 1/4 F			01
R178	VV065100	Metal Film Resistor	2.2K 1/4 F			01
R179	HF456200	Carbon Resistor	2.0K 1/4 J			01
R180	VV065500	Metal Film Resistor	10K 1/4 F			01
R181	VV065500	Metal Film Resistor	10K 1/4 F			01
R182	VV312900	Metal Film Resistor	22K 1/4 F			01
R183	V2336300	Metal Film Resistor	1.8K 1/4 F			01
R193	VZ010300	Metal Film Resistor	5.1K 1/4 F			01
* SW102	V7909300	Slide Switch	SS001-P022BQB-PA9	PHASE (NORM/REV)		
* VR101	V7757200	Rotary Variable Resistor	C20K RK11K12NO-30L	CUTOFF FREQ.		
VR102	V5521500	Rotary Variable Resistor	A 20.0K RK09D113	LEVEL		01
*	AAX31270	Circuit Board	MIX 2/4	(V791620,V880400,V791640) (X0368B0)		
C101	UR838100	Electrolytic Cap.	100.00 16.0V			01
-104	UR838100	Electrolytic Cap.	100.00 16.0V			01
C105	VZ353600	Ceramic Cap.-B	220P 50V K			01
C106	VZ353600	Ceramic Cap.-B	220P 50V K			01
C107	VZ353300	Ceramic Capacitor-SL	56P 50V J			01
C108	VZ353300	Ceramic Capacitor-SL	56P 50V J			01
C109	VZ353000	Ceramic Capacitor-SL	33P 50V J			01
C110	VZ353000	Ceramic Capacitor-SL	33P 50V J			01
C111	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C112	VZ353000	Ceramic Capacitor-SL	33P 50V J			01
-116	VZ353000	Ceramic Capacitor-SL	33P 50V J			01
C117	VZ353300	Ceramic Capacitor-SL	56P 50V J			01
C118	VZ353300	Ceramic Capacitor-SL	56P 50V J			01
C119	VZ353000	Ceramic Capacitor-SL	33P 50V J			01
C120	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
-122	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C123	UR847100	Electrolytic Cap.	10.00 25.0V			01
C124	UR847100	Electrolytic Cap.	10.00 25.0V			01
C125	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
-128	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C129	VZ353600	Ceramic Cap.-B	220P 50V K			01
C130	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C131	VV062600	Mylar Capacitor	0.068 50V J			01
C132	VV062600	Mylar Capacitor	0.068 50V J			01
C133	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
C134	VV062600	Mylar Capacitor	0.068 50V J			01
C135	VV062600	Mylar Capacitor	0.068 50V J			01
* C136	VV064600	Monolithic Mylar Capacitor	1.5 50V J			
C137	VV064300	Monolithic Mylar Capacitor	0.68 50V J			
C138	VV064300	Monolithic Mylar Capacitor	0.68 50V J			
C139	V7079900	Monolithic Mylar Capacitor	0.15 50V J			
C140	V7079900	Monolithic Mylar Capacitor	0.15 50V J			
C163	UR848100	Electrolytic Cap.	100.00 25.0V			01
C164	UR847100	Electrolytic Cap.	10.00 25.0V			01
-166	UR847100	Electrolytic Cap.	10.00 25.0V			01
C167	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
-169	VZ354000	Ceramic Capacitor-F	0.0100 50V Z			01
CN101	--	Connector Assembly	1018&2426 4P 60L	(V791650)		
D101	VD631600	Diode	1SS133,176,HSS104			01
-104	VD631600	Diode	1SS133,176,HSS104			01
D106	VD631600	Diode	1SS133,176,HSS104			01
D107	VD631600	Diode	1SS133,176,HSS104			01
IC101	XF195A00	IC	NJM4580L	OP AMP		04
IC102	XF195A00	IC	NJM4580L	OP AMP		04
IC103	XM085A00	IC	M5238AP	OP AMP		03
IC104	XM356A00	IC	NJM2068L-D	OP AMP		02
IC105	XM356A00	IC	NJM2068L-D	OP AMP		02
JK101	VU805100	XLM Connector	XLR NC3MAV	OUTPUT HIGH PASS 100Hz A		04
JK102	VU805100	XLM Connector	XLR NC3MAV	OUTPUT THRU A		04
JK103	VU805200	XLM Connector	XLR NC3FAV1-0	INPUT A		04

*: New Parts

RANK: Japan only



REF NO.	PART NO.	DESCRIPTION			REMARKS	QTY	RANK
JK104	VU805100	XLM Connector	XLR NC3MAV		OUTPUT THRU B		04
JK105	VU805200	XLM Connector	XLR NC3FAV1-0		INPUT B		04
JK106	VU805100	XLM Connector	XLR NC3MAV		OUTPUT HIGH PASS 100Hz B		04
Q101	IC287820	Transistor	2SC2878 A,B				01
-104	IC287820	Transistor	2SC2878 A,B				01
Q105	IA097030	Transistor	2SA970 GR,BL				01
Q106	V2797600	Transistor	2SA1993 E,F				01
Q107	V2797700	Transistor	2SC5395 E,F				01
R101	HF458100	Carbon Resistor	100.0K 1/4 J				01
R102	V2440400	Metal Film Resistor	12K 1/4 F				01
-105	V2440400	Metal Film Resistor	12K 1/4 F				01
R106	HF458100	Carbon Resistor	100.0K 1/4 J				01
-108	HF458100	Carbon Resistor	100.0K 1/4 J				01
R109	HF454750	Carbon Resistor	75.0 1/4 J				01
-112	HF454750	Carbon Resistor	75.0 1/4 J				01
R113	V4404200	Metal Film Resistor	7.5K 1/4 F				
R114	V4404200	Metal Film Resistor	7.5K 1/4 F				
R115	VV065700	Metal Film Resistor	18K 1/4 F				
R116	V4404200	Metal Film Resistor	7.5K 1/4 F				
R117	V4404200	Metal Film Resistor	7.5K 1/4 F				
R118	VV065700	Metal Film Resistor	18K 1/4 F				
R119	VV065800	Metal Film Resistor	20K 1/4 F				05
-122	VV065800	Metal Film Resistor	20K 1/4 F				05
R123	VV065700	Metal Film Resistor	18K 1/4 F				
R124	VV065700	Metal Film Resistor	18K 1/4 F				
R125	VV065500	Metal Film Resistor	10K 1/4 F				01
R126	VV065500	Metal Film Resistor	10K 1/4 F				01
R127	HF454180	Carbon Resistor	18.0 1/4 J				01
R128	HF454180	Carbon Resistor	18.0 1/4 J				01
R129	VV065500	Metal Film Resistor	10K 1/4 F				01
-131	VV065500	Metal Film Resistor	10K 1/4 F				01
R132	VV065600	Metal Film Resistor	11K 1/4 F				05
R133	VV065500	Metal Film Resistor	10K 1/4 F				01
R134	VV065600	Metal Film Resistor	11K 1/4 F				05
R135	HF458220	Carbon Resistor	220.0K 1/4 J				01
R136	HF458220	Carbon Resistor	220.0K 1/4 J				01
R137	VV065500	Metal Film Resistor	10K 1/4 F				01
R138	VV065500	Metal Film Resistor	10K 1/4 F				01
R139	HF454180	Carbon Resistor	18.0 1/4 J				01
R140	HF454180	Carbon Resistor	18.0 1/4 J				01
R141	VV066100	Metal Film Resistor	47K 1/4 F				01
R142	VV066100	Metal Film Resistor	47K 1/4 F				01
R143	V2440400	Metal Film Resistor	12K 1/4 F				01
R144	VV065500	Metal Film Resistor	10K 1/4 F				01
R145	V2440400	Metal Film Resistor	12K 1/4 F				01
R146	V2440200	Metal Film Resistor	2.4K 1/4 F				01
R147	V2440200	Metal Film Resistor	2.4K 1/4 F				01
R148	V2386900	Metal Film Resistor	4.3K 1/4 F				01
R149	VV312900	Metal Film Resistor	22K 1/4 F				01
R150	V5909400	Metal Film Resistor	82K 1/4 F				
R151	HF454180	Carbon Resistor	18.0 1/4 J				01
R184	HF458470	Carbon Resistor	470.0K 1/4 J				01
R185	HF458100	Carbon Resistor	100.0K 1/4 J				01
-188	HF458100	Carbon Resistor	100.0K 1/4 J				01
R189	HF457470	Carbon Resistor	47.0K 1/4 J				01
R190	HF457470	Carbon Resistor	47.0K 1/4 J				01
R191	HF457100	Carbon Resistor	10.0K 1/4 J				01
R192	HF457100	Carbon Resistor	10.0K 1/4 J				01
*	AAX31280	Circuit Board	MIX 3/4		J,U,V (V791620,V880400) (X0368B0)		
*	AAX31290	Circuit Board	MIX 3/4		H,B,W,A (V791640)(X0368B0)		
	VV319600	Fuse Holder	CQ-05CT			2	01
C157	VV314800	Capacitor	1000P 400V J.U.C.S				01
CN105	LB933030	Base Post Connector	VH 3P SE				01
CN106	LB933030	Base Post Connector	VH 3P SE				01
F101	VS823400	Fuse	10.00A JUC		J,U,V		01
F101	VV071700	Fuse	TSD 3.15A 250V SEM		H,B,W,A		01
SW101	VV089200	Push Switch	SFDLB11R7U-YL U,C,		POWER ON/OFF		03

※: New Parts

RANK: Japan only

[illegible]

*: New Parts

RANK: Japan only