

QQ 376315150

SUBWOOFER SW10

SERVICE MANUAL



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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 those 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 WHATSOEVER 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.

■ 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 Speaker
Frequency Range 25–150 Hz (–10 dB)
Sensitivity –12 dB at Vol. Max (for 100 dB/SPL, 1 m on Axis)
Maximum Output Level 111 dB (1 m on Axis)
Dimensiones (W × H × D)..... 328 × 459 × 476 mm
Weight..... 26 kg

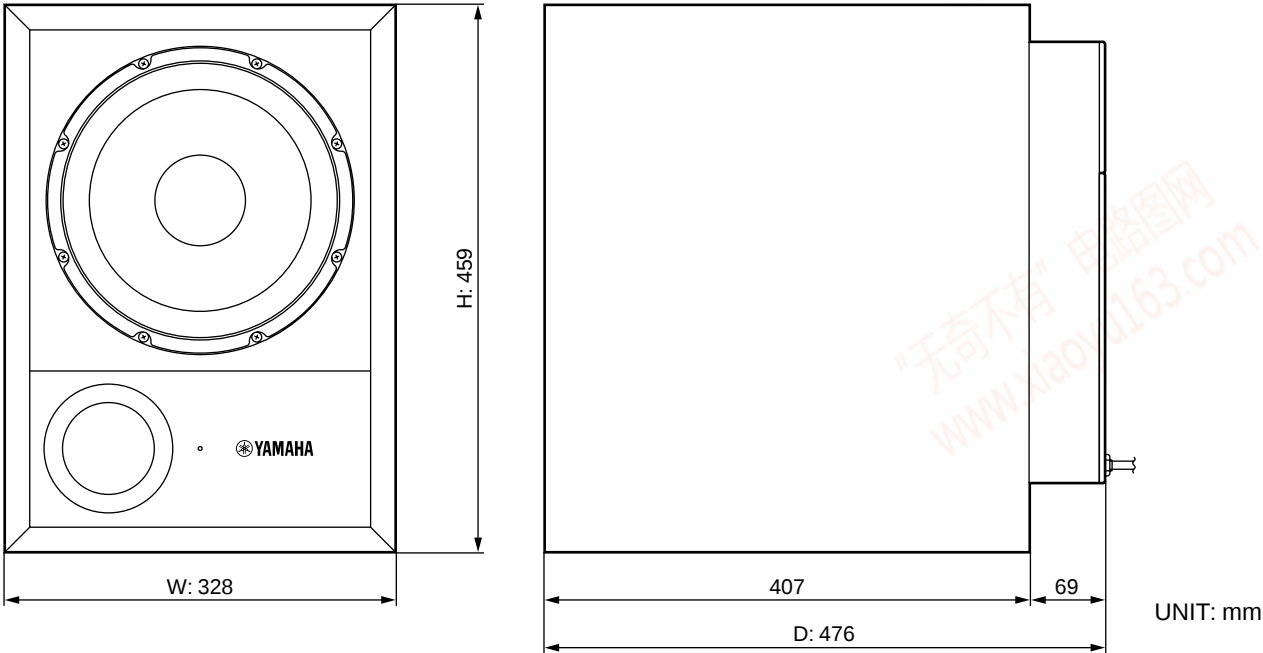
Speaker unit

Speaker Unit 25 cm Cone (8Ω, magnetic shielded)
Enclosure Type: Bass Reflex

Amp.unit

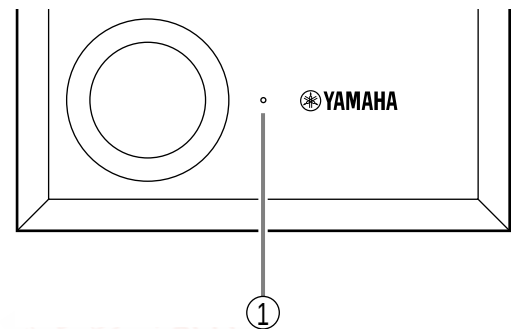
Maximum Output Power..... 180 W at 100 Hz, THD= 1%, RL= 8Ω
Input Sensitivity/Impedance –6 dB to +4 dB/10 kΩ (Input 1, 2, 3)
Hum & Noise..... ≤–60 dBu (Volume= Min) DIN Audio filter
Signal to Noise Ratio..... ≥100 dB (IEC-A Weighting)
Controls VOL (Level Control)
CUTOFF FREQ. Control: 40–120 Hz (Variable)
PHASE Switch: REV/NORM
POWER Switch: ON/OFF
Connectors Input 1, 2, 3 (XLR-3-31), Output 1, 2, 3 (XLR-3-32)
Power Indicator/Clip Indicator ... Green/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..... 160 W

DIMENSIONS



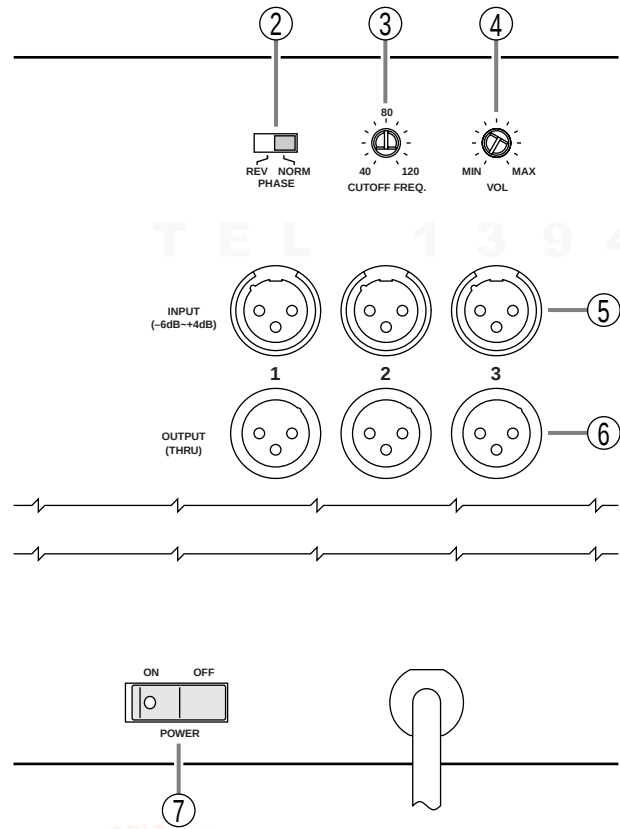
PANEL LAYOUT

• Front panel

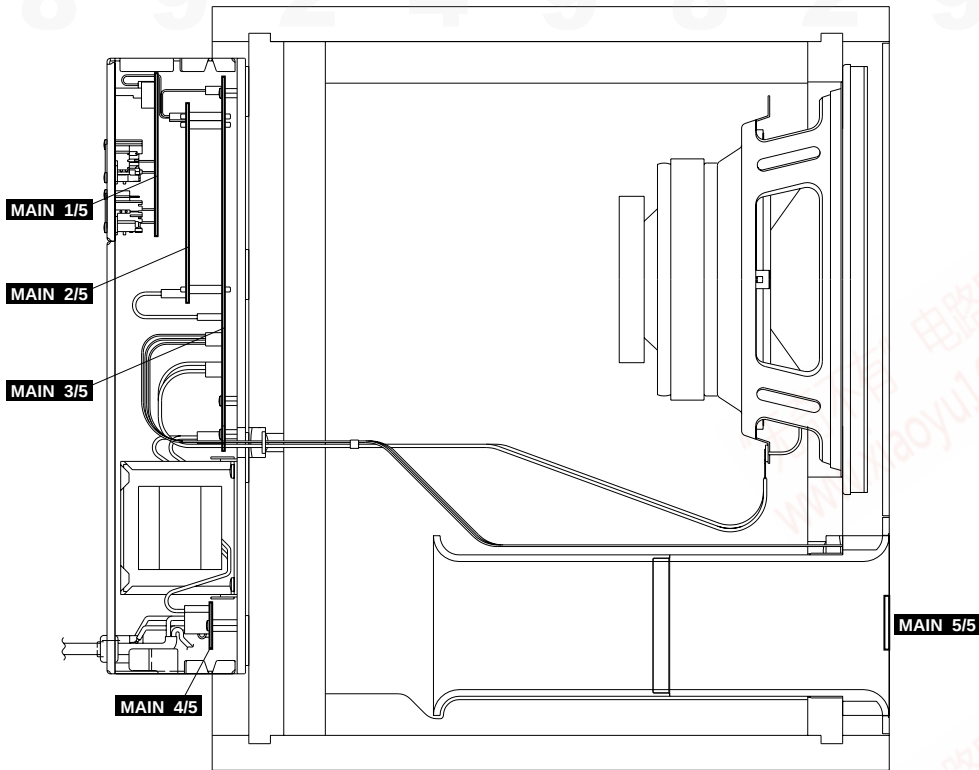


- ① Power/Clip indicator
- ② PHASE switch
- ③ CUTOFF FREQ control
- ④ VOL (Volume) control
- ⑤ INPUT jacks 1, 2, and 3
- ⑥ OUTPUT jacks 1, 2, and 3
- ⑦ POWER switch

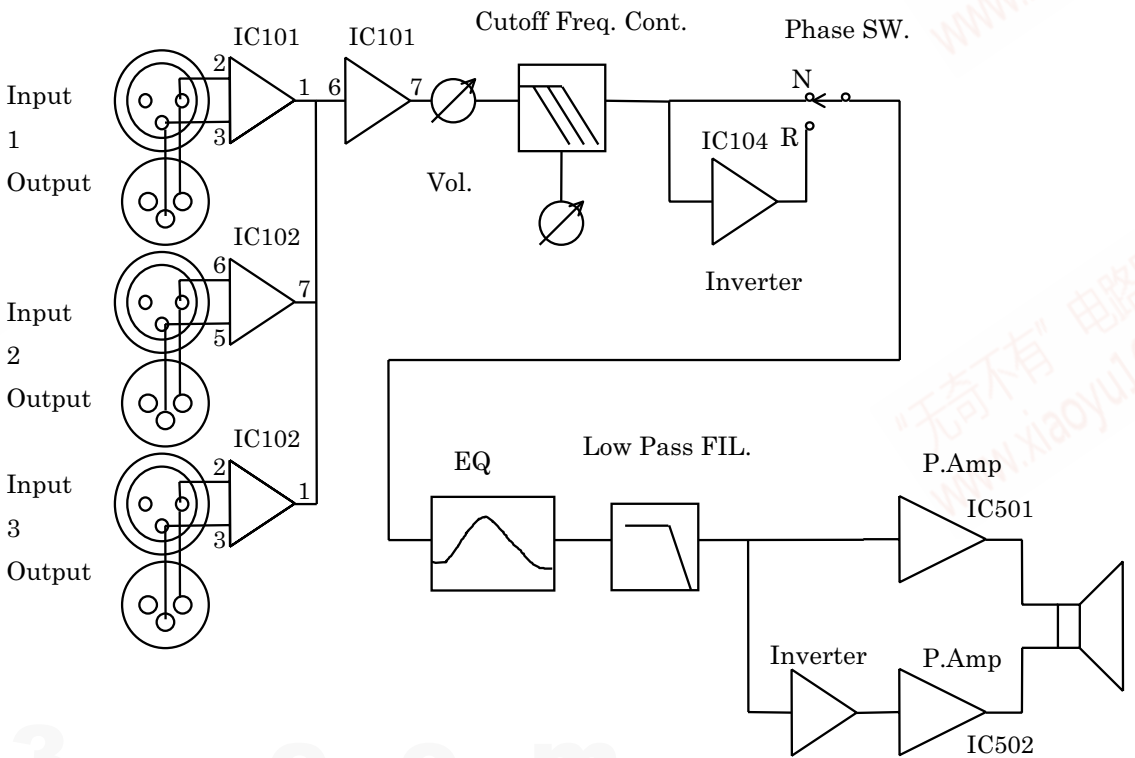
• Rear panel



CIRCUIT BOARD LAYOUT



BLOCK DIAGRAM



DISASSEMBLY PROCEDURE

1. **Woofer**
1-1 Remove the front grille.
1-2. Remove the eight (8) screws marked [140]. The woofer can then be removed. (Fig.1)
2. **Control Panel**
2-1 Remove the four (4) screws marked [170]. The control panel can then be removed. (Fig.2)
3. **Rear Panel**
3-1 Remove the six (6) screws marked [100]. The rear panel can then be removed. (Fig.2)
4. **Power Transformer**
4-1 Remove the rear panel. (See procedure 3.)
4-2 Remove the four (4) screws marked [160]. The power transformer can then be removed. (Fig.3)
5. **MAIN 1/5 Circuit Board**
5-1 Remove the Control Panel. (See procedure 2.)
5-2 Remove the twelve (12) screws marked [130]. The MAIN 1/5 circuit board can then be removed.(Fig.2)
6. **MAIN 2/5 Circuit Board**
6-1 Remove the control panel. (See procedure 2.)
6-2 Remove the rear panel. (See procedure 3.)
6-3 Remove the MAIN 2/5 circuit board from spacer support. (Fig.3)
7. **MAIN 3/5 Circuit Board**
7-1 Remove the MAIN 2/5 circuit board. (See procedure 6.)
7-2 Remove the eight (8) screws marked [150]. The TR press metal A marked [A90 and the TR press metal B marked [A100] can then be removed.
7-3 Remove the four (4) screws marked [140A]. The MAIN 3/5 circuit board can then be removed. (Fig.3)
8. **MAIN 4/5 Circuit Board**
8-1 Remove the rear panel. (See procedure 3.)
8-2 Remove the two (2) screws marked [140B]. The MAIN 4/5 circuit board can then be removed. (Fig.3)
9. **MAIN 5/5 Circuit Board**
9-1 Remove the front panel.
9-2 Remove the two (2) screws marked [110]. The MAIN 5/5 circuit board can then be removed. (Fig.4)

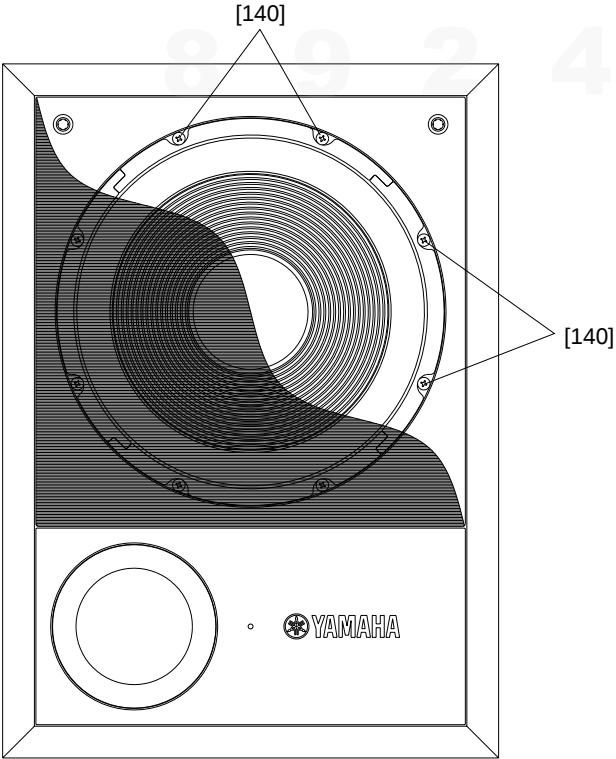


Fig.1

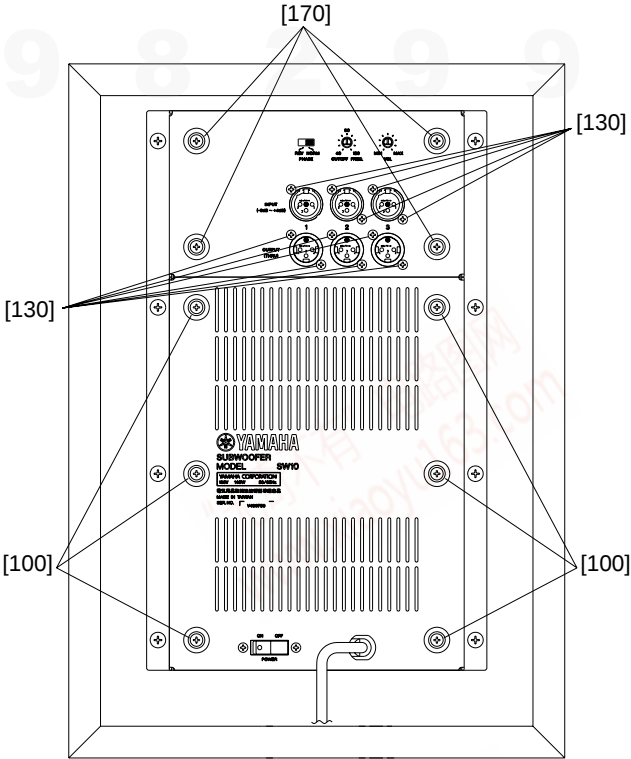


Fig.2

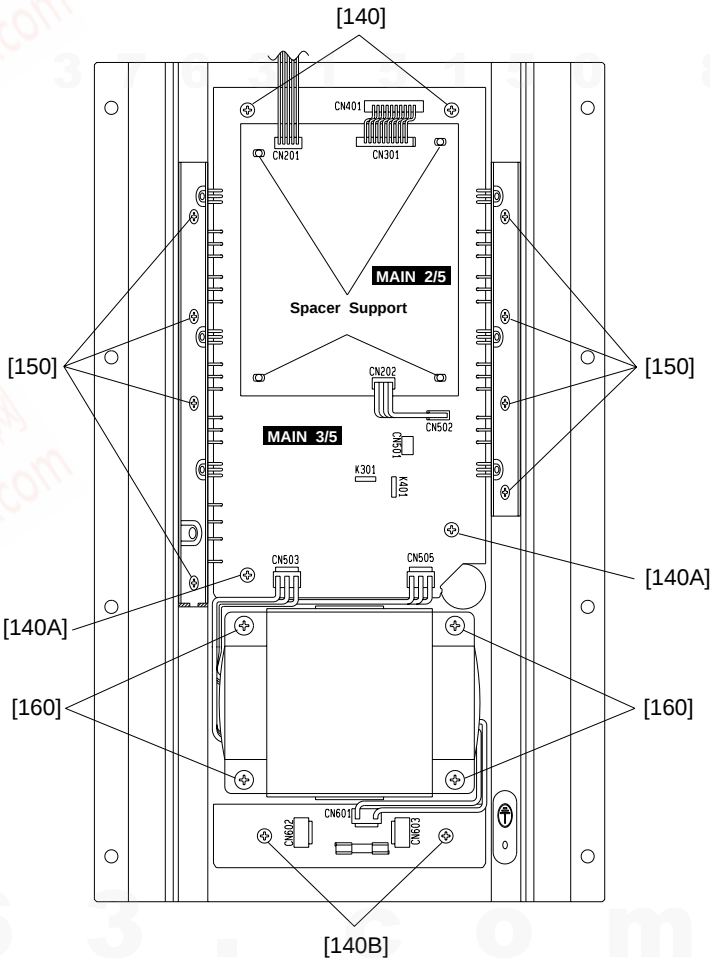


Fig.3

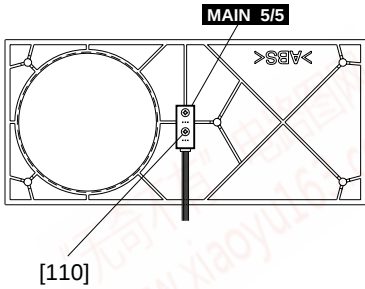
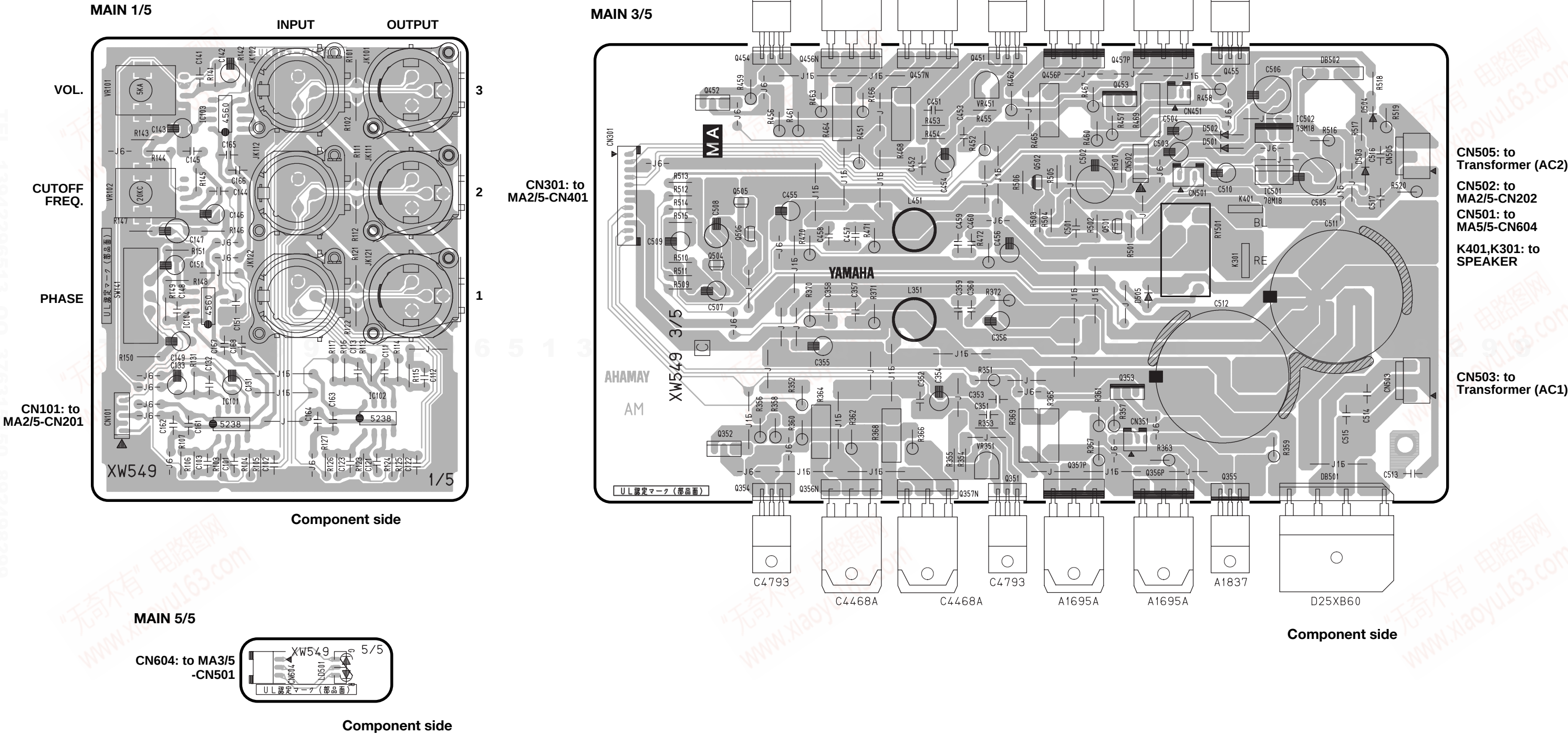


Fig.4

CIRCUIT BOARD

MAIN Circuit Board



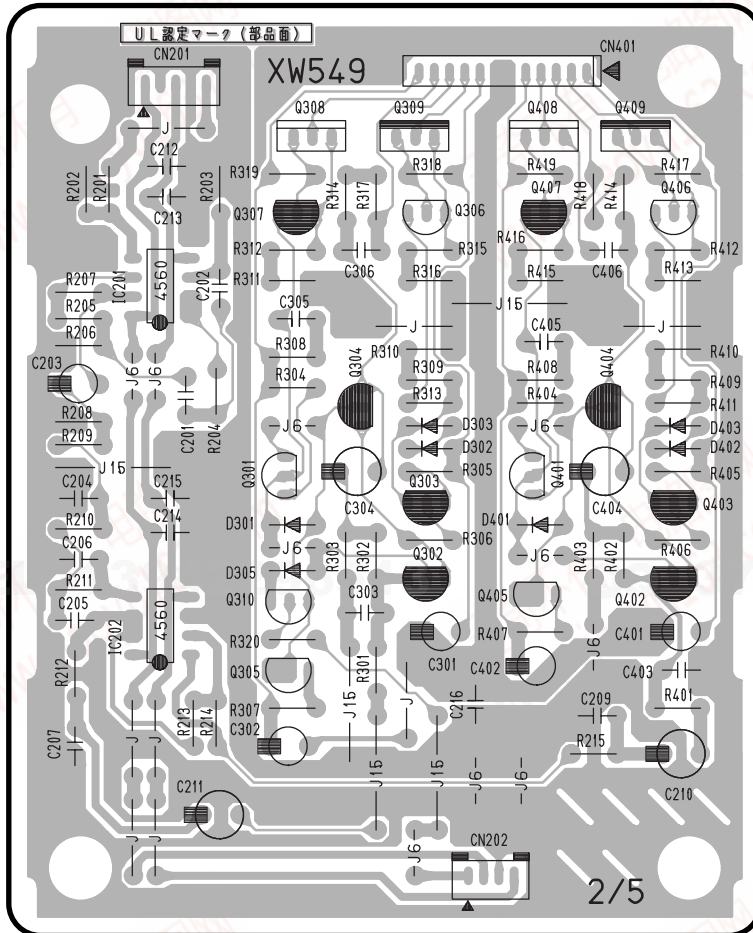
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MAIN 2/5

CN201: to
MA1/5-CN101

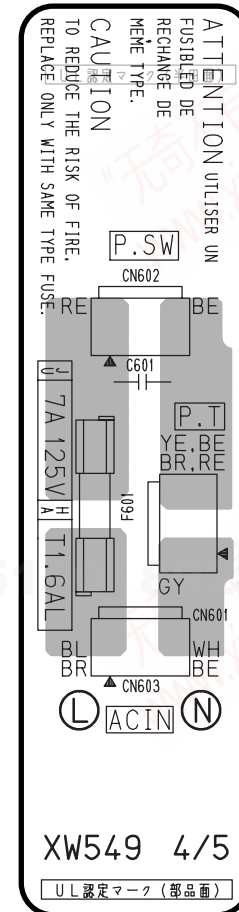
CN401: to
MA3/5-CN301



CN202: to
MA3/5-CN502

Component side

MAIN 4/5



CN602: to
Power SW.

CN601: to
Transformer

CN603: to AC IN

Component side

MAIN: 3NA-V434520

■ INSPECTIONS

A. Measuring Instruments

oscillator, oscilloscope, level meter, noise meter (with an IHF-A filter)

B. Preparation

Load resistance setting: Between speaker terminals K301 and 401 RL=8 ohm (non-conductive resistance of 250 W or more power)

Knob settings:

VOL.: MAX
CUTOFF FREQ. VR: 120 Hz
PHASE SW: NORM

C Inspection and Adjustment

1. Muting Operation

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

2. Adjustment of Idling Current

Adjust the VR301 and 401 so that the voltage obtained between pins 1 and 2 of CN301 and 401 is 0.7 ± 0.15 mV respectively.

3. Mid-point Potential

When no signal is applied, check to ensure that the DC voltage between speaker terminals is less than ± 100 mV.

4. Gain

When a 30 Hz sine wave signal is applied to the input terminal, check that the output level is as described in the following table:

Input terminal	Input level	Speaker terminal	Output terminal 1, 2, 3
Line 1, 2, 3 (XLR balanced)	-20 dBu	+27.8 dBu $\pm$ 0.5 dB	-20 dBu $\pm$ 0.5 dB

5. Maximum Output

When a 100 Hz signal is applied to the input terminal (LINE1), and the input level is raised so that the output level between K301 and 401 becomes 38 V, check that the total harmonic distortion (T.H.D.) is less than 1.0%.

6. Noise Level

When the input terminal is connected with 600 ohm, check that the noise level is as described.

Use an IHF-A filter for the noise meter (measurement will not be affected by inductive noise).

Residual noise: less than -70 dBu (VR MIN)

MAX noise: less than -68 dBu (VR MAX)

7. Frequency Response

Use the output level at the speaker terminal when a 30 Hz signal is input as "0".

When the F control VR is adjusted, check that the frequency response is as shown in the following table:

Input frequency (Hz)	F con 120 Hz	F con 40 Hz
20	-5.9 +/- 3.0 dB	-5.0 +/- 3.5 dB
30	0dB	0 dB
50	-6.5 +/- 2.0 dB	-11.1 +/- 2.5 dB
100	-12.8 +/- 2.0 dB	-27.5 +/- 4.0 dB

8. PHASE SW

When the PHASE switch is set to REV, check that the phase changes by 180 degrees with respect to the input.

9. Stability

When the power voltage varies by $\pm 10\%$, or a 100p to 0.0022 μ F capacitor is connected to the speaker terminal, check that no abnormal condition such as oscillation occurs.

10. Protection circuit

When the CN202 connector is disconnected, check that the relay turns off within one second;
when the CN202 connector is connected, check that the relay turns on within 5 seconds.

11. Clip indicator

When a 30 Hz, 0 dBu signal is input to the LINE input terminal, check that the LED color changes from green to red.

12. Others

When a 20 Hz to 200 Hz sine wave signal or a music signal are applied, check that no abnormality occurs, such as voice coil contact, air leakage and vibration.

Also, when each knob is moved, check that the sound volume and quality vary smoothly.

The output is in phase with respect to the input.

SW10

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SUBWOOFER SW10 PARTS LIST

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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 (220)
I : Indonesian model	N,X : General export model
J : Japanese model	Y : Export model

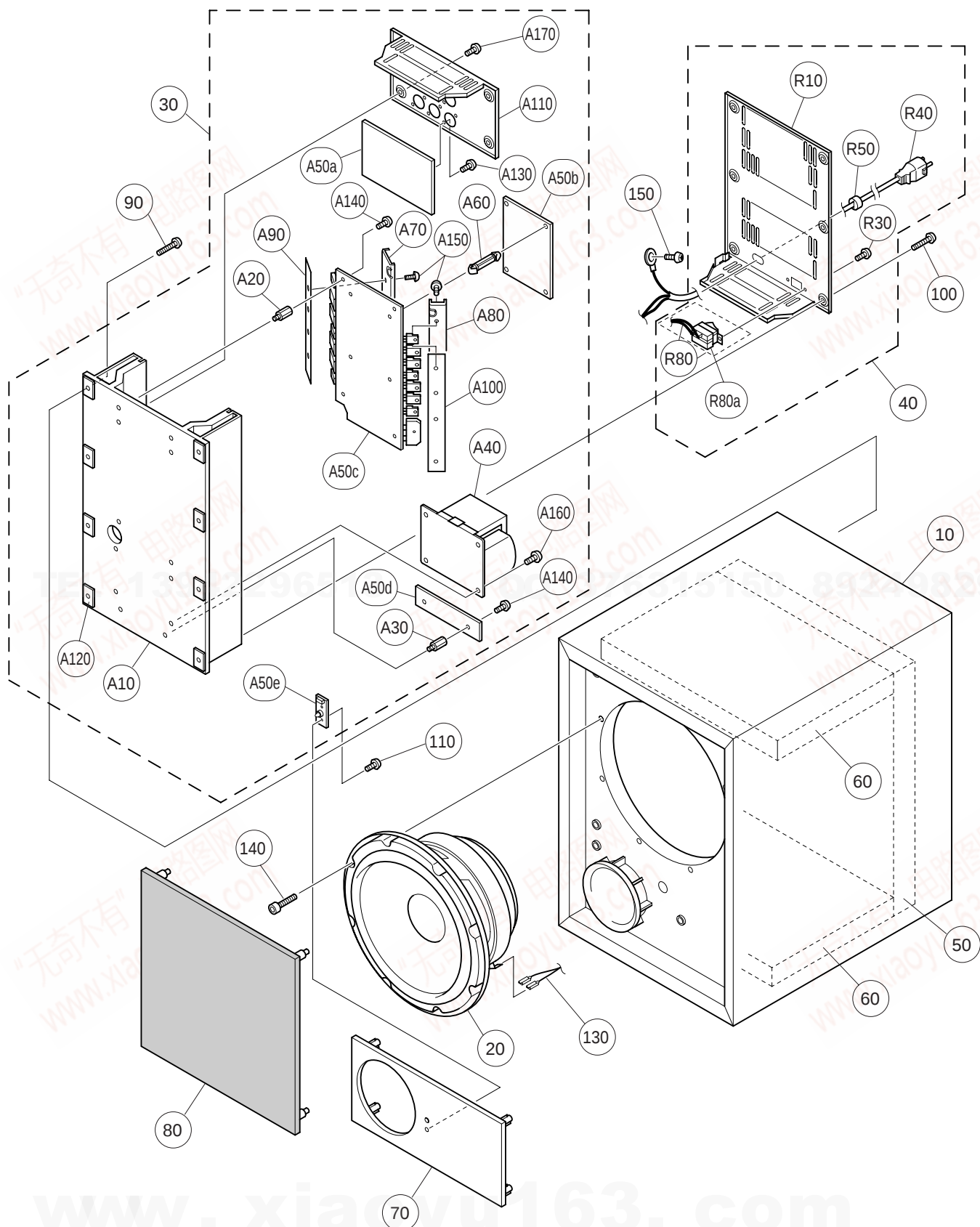
WARNING

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.

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OVERALL ASSEMBLY



REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
	--	OVERALL ASSEMBLY		SW10		
	--	Overall Assembly	J	J (V436470)		
	--	Overall Assembly	U	U, V (V436480)		
	--	Overall Assembly	H	H, W (V436490)		
	--	Overall Assembly	B	B (V436500)		
	--	Overall Assembly	A	A (V436510)		
* 10	V4365600	Cabinet Assembly	J			
* 20	XW561A00	Speaker	250mm			
30	--	AMP Assembly	J	J (V436570)		
30	--	AMP Assembly	U	U, V (V436630)		
30	--	AMP Assembly	H	H, W, B (V436640)		
40	--	AMP Assembly	A	A (V436650)		
40	--	Rear Panel Assembly	J	J (V436580)		
40	--	Rear Panel Assembly	U	U, V (V436660)		
40	--	Rear Panel Assembly	H	H, W (V436670)		
40	--	Rear Panel Assembly	B	B (V436680)		
40	--	Rear Panel Assembly	A	A (V436690)		
50	--	Felt A		(V436590)		
60	--	Felt B		(V436600)		
* 70	V4366100	Front Panel				
* 80	V4366200	Front Grille				
90	VB664500	Bind Head Screw	5.0X30 MFZN2BL		8	01
100	VJ254100	Bonding Tapping Screw-B	4.0X10 MFZN2BL		6	01
110	EP600190	Bind Head Tapping Screw-B	3.0X8 MFZN2BL		2	01
130	--	Connector Assembly	C&F	(V435790)		
140	VB923200	Bind Head Screw	4.0X25 MFZN2BL		8	01
150	VC688800	Bind Head Tapping Screw-B	A4.0X8 MFZN2BL	U, H, B, A, V, W	2	01
	--	AMP Assembly	J	J (V436570)		
	--	AMP Assembly	U	U, V (V436630)		
	--	AMP Assembly	H	H, W, B (V436640)		
	--	AMP Assembly	A	A (V436650)		
* A10	V4348100	Heat Sink				
A20	VV086500	Support	H=7.4 B=5.5		4	01
A30	V2437700	Support	H=15.0 B=7.0 M4/M3		2	01
* A40	XW544A00	Power Transformer	A	J		
* A40	XW545A00	Power Transformer	UC A	U, V		
* A40	XW546A00	Power Transformer	CEE A	H, W, B		
* A40	XW547A00	Power Transformer	A A	A		
* A50a	AAx08780	Circuit Board	MAIN 1/5			
* A50b	AAx08790	Circuit Board	MAIN 2/5			
* A50c	AAx08800	Circuit Board	MAIN 3/5			
* A50d	AAx08810	Circuit Board	MAIN 4/5 J UC	J, U, V		
* A50d	AAx08820	Circuit Board	MAIN 4/5 H BA	H, W, B, A		
* A50e	AAx08830	Circuit Board	MAIN 5/5			
A60	--	Spacer Support	KCA-20 PIN GOO		4	
A70	--	TR Press Metal A				
A80	--	TR Press Metal B				
* A90	V4348700	Thermally Conductive Sheet	UNISHEET T=0.15			
* A100	V4348800	Thermally Conductive Sheet	UNISHEET T=0.15			
* A110	V4367000	Control Panel				
A120	--	Stopper Rubber	CR		8	
A130	VN413300	Bonding Tapping Screw-B	3.0X8 MFZN2BL		12	01
A140	EG330360	Bind Head Screw	3.0X6 MFZN2BL		6	01
A150	VQ074600	Bind Head Tapping Screw-B	3.0X12 MFZN2BL		9	01
* A160	V4349000	Bind Head Screw	4.0X6 MFZN2BL		4	
A170	VJ254100	Bonding Tapping Screw-B	4.0X10 MFZN2BL		4	01
	--	Rear Panel Assembly	J	J (V436580)		
	--	Rear Panel Assembly	U	U, V (V436660)		
	--	Rear Panel Assembly	H	H, W (V436670)		
	--	Rear Panel Assembly	B	B (V436680)		
	--	Rear Panel Assembly	A	A (V436690)		
R10	V4367500	Rear Panel	J			
* R10	V4367600	Rear Panel	U, V			
* R10	V4367700	Rear Panel	H, W, B			
* R10	V4367800	Rear Panel	A			
* R30	EG330360	Bind Head Screw	3.0X6 MFZN2BL		2	01
R40	V3277000	AC Cord	J VCTF 2X0.75 12A	J	05	
R40	VV205600	AC Cord	UC SJT 3X#18 10A	U, V	06	
R40	V3277100	AC Cord	E H05VV-F3X0.7510A	H, W, A	06	
R40	VV058300	AC Cord	BS H05VV-F3X0.75	B	08	
R50	VV103100	Cord Strain Relief	SR-6P1		01	
R80	--	Connector Assembly	PSW	(V434610)		
R80a	VM744600	Switch	SDDTA1-A-1 J.U.C.H	POWER	06	

* New Parts

RANK : Japan only

SW10

ELECTRICAL PARTS

REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
		ELECTRICAL PARTS	SW10		
*	AAX08780	Circuit Board	(XW549C0)		
*	AAX08790	Circuit Board	(XW549C0)		
*	AAX08800	Circuit Board	(XW549C0)		
*	AAX08810	Circuit Board	J, U, V (XW549C0)		
*	AAX08820	Circuit Board	H, W, B, A (XW549C0)		
*	AAX08830	Circuit Board	(XW549C0)		
*	AAX08780	Circuit Board	(XW549C0)		
*	AAX08790	Circuit Board	(XW549C0)		
*	AAX08800	Circuit Board	(XW549C0)		
*	AAX08810	Circuit Board	J, U, V (XW549C0)		
*	AAX08820	Circuit Board	H, W, B, A (XW549C0)		
*	AAX08830	Circuit Board	(XW549C0)		
*	VV319600	Fuse Holder	CQ-05CT		01
	VV291400	Jumper Wire	0.6		01
CN101	--	Connector Assembly	B&C 5P#24L100	(V439360)	
CN201	VV066500	Connector Base Post	M2426XX 5P TE		01
CN202	VV066400	Connector Base Post	M2426XX 4P TE		01
CN301	VV067200	Connector Base Post	M2426XX 12P TE		01
CN351	VV066200	Connector Base Post	M2426XX 2P TE		01
CN401	--	Connector Assembly	B&C 12P#24L60	(V434600)	
CN451	VV066200	Connector Base Post	M2426XX 2P TE		01
CN501	VV066300	Connector Base Post	M2426XX 3P TE		01
CN502	--	Connector Assembly	B&C 4P #24L80	(V434590)	
CN503	LB932030	Base Post Connector	VH- 3P TE		01
CN505	LB932030	Base Post Connector	VH- 3P TE		01
CN601	VG879900	Base Post Connector	VA- 2P TE		01
-603	VG879900	Base Post Connector	VA- 2P TE		01
CN604	VV067700	Connector Base Post	M2426XXR 3P SE		01
D301	VD631600	Diode	1SS133,176,HSS104		01
-303	VD631600	Diode	1SS133,176,HSS104		01
D305	VD631600	Diode	1SS133,176,HSS104		01
D401	VD631600	Diode	1SS133,176,HSS104		01
-403	VD631600	Diode	1SS133,176,HSS104		01
D501	VU801600	Diode	1N4004L 26		01
D502	VU801600	Diode	1N4004L 26		01
D503	IF005560	Diode	1SS82TD		01
D504	VD631600	Diode	1SS133,176,HSS104		01
D505	VD631600	Diode	1SS133,176,HSS104		01
DB501	VR149900	Diode Stack	D25XB60 25.0A 600V		06
DB502	VQ379300	Diode Stack	S1VB20 1.0A 200V		02
F601	VV314500	Fuse	TDS 7A 125V J/U/C	J, U, V	
F601	VV071400	Fuse	TSD 1.6A 250V SEMK	H, W, B, A	01
IC101	XM085A00	IC	M5238AP	OP AMP	03
IC102	XM085A00	IC	M5238AP	OP AMP	03
IC103	IG040000	IC	NJM4560D	OP AMP	04
IC104	IG040000	IC	NJM4560D	OP AMP	04
IC201	IG040000	IC	NJM4560D	OP AMP	04
IC202	IG040000	IC	NJM4560D	OP AMP	04
IC501	XJ605A00	IC	NJM78M18	REGULATOR +18V	
IC502	XD522A00	IC	NJM79M18	REGULATOR -18V	
JK101	VU805100	XLM Connector	XLR NC3MAV	OUTPUT3	04
JK102	VU805200	XLM Connector	XLR NC3FAV1-0	INPUT3	04
JK111	VU805100	XLM Connector	XLR NC3MAV	OUTPUT2	04
JK112	VU805200	XLM Connector	XLR NC3FAV1-0	INPUT2	04
JK121	VU805100	XLM Connector	XLR NC3MAV	OUTPUT1	04
JK122	VU805200	XLM Connector	XLR NC3FAV1-0	INPUT1	04
K301	VZ005700	Terminal	TP82223-22		01
K401	VZ005700	Terminal	TP82223-22		01
L351	VP964900	Coil	RZ-001 1.0UH		01
L451	VP964900	Coil	RZ-001 1.0UH		01
LD501	V4814900	LED	L-115VSRSGW-CA	Power/clip	
Q301	IC224030	Transistor	2SC2240 GR,BL		01
Q302	IA097030	Transistor	2SA970 GR,BL		01
-304	IA097030	Transistor	2SA970 GR,BL		01
Q305	IC224030	Transistor	2SC2240 GR,BL		01
Q306	IC1815M0	Transistor	2SC1815 Y,GR		01
Q307	IA101590	Transistor	2SA1015 O,Y		01
Q308	VR152900	Transistor	2SC3790 E,F		02

* New Parts

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REF NO.	PART NO.	DESCRIPTION	REMARKS	QTY	RANK
Q309	VR152800	Transistor	2SA1480 E,F		02
Q310	IC224030	Transistor	2SC2240 GR,BL		01
Q351	VQ547300	Transistor	2SC4793 (HFE)		03
Q352	VR152900	Transistor	2SC3790 E,F		02
Q353	VR152800	Transistor	2SA1480 E,F		02
Q354	VQ547300	Transistor	2SC4793 (HFE)		03
Q355	VQ547200	Transistor	2SA1837 (HFE)		03
Q401	IC224030	Transistor	2SC2240 GR,BL		01
Q402	IA097030	Transistor	2SA970 GR,BL		01
-404	IA097030	Transistor	2SA970 GR,BL		01
Q405	IC224030	Transistor	2SC2240 GR,BL		01
Q406	IC1815M0	Transistor	2SC1815 Y,GR		01
Q407	IA101590	Transistor	2SA1015 O,Y		01
Q408	VR152900	Transistor	2SC3790 E,F		02
Q409	VR152800	Transistor	2SA1480 E,F		02
Q451	VQ547300	Transistor	2SC4793 (HFE)		03
Q452	VR152900	Transistor	2SC3790 E,F		02
Q453	VR152800	Transistor	2SA1480 E,F		02
Q454	VQ547300	Transistor	2SC4793 (HFE)		03
Q455	VQ547200	Transistor	2SA1837 (HFE)		03
Q501	V2797700	Transistor	2SC5395 E,F		01
Q502	V2797600	Transistor	2SA1993 E,F		01
Q504	V2797700	Transistor	2SC5395 E,F		01
-506	V2797700	Transistor	2SC5395 E,F		01
Q356N	V2950000	Pair Transistor	A1695/C4468(Z)	Pair	01
Q356P					
Q357N	V2950000	Pair Transistor	A1695/C4468(Z)	Pair	01
Q357P					
Q456N	V2950000	Pair Transistor	A1695/C4468(Z)	Pair	01
Q456P					
Q457N	V2950000	Pair Transistor	A1695/C4468(Z)	Pair	01
Q457P					
RY501	VV315400	Relay	DC OSA-SH-224DM3M		06
SW141	V2802400	Switch (Slide) 2-2	SS001-P022BQB-PA14	FASE	03
* VR101	V4257200	Rotary Variable Resistor	A 5.0K RK11K113	VOL	
* VR102	V4257300	Rotary Variable Resistor	C 20K RK11K12N	CUTOFF FREQ.	
VR351	VA787500	Trimmer Potentiometer	B 470 3P RHEOA		01
VR451	VA787500	Trimmer Potentiometer	B 470 3P RHEOA		01
* V4414200		Mylar Capacitor	0.1 100V J	C:357,358,457,458,514,515	
VV059800		Mylar Capacitor	1000P 50V J	C:207,209	08
VV060100		Mylar Capacitor	1500P 50V J	C:305,405	08
VV061000		Mylar Capacitor	5600P 50V J	C:206	01
VV062400		Mylar Capacitor	0.047 50V J	C:501	01
VV062500		Mylar Capacitor	0.056 50V J	C:205	01
VV062800		Mylar Capacitor	0.1 50V J	C:516,517	01
* VV063100		Mylar Capacitor	0.18 50V J	C:204	
* VV063200		Mylar Capacitor	0.22 50V J	C:144	
VZ597300		Mylar Capacitor	0.091 50V J	C:145	01
* VV063900		Monolithic Mylar Capacitor	0.33 50V J	C:202	
* VV064300		Monolithic Mylar Capacitor	0.68 50V J	C:201	
VZ012200		Ceramic Capacitor-B	0.001 500V K	C:359,360,459,460	01
VZ353200		Ceramic Capacitor-SL	47P 50V J	C:141,151	01
VZ353500		Ceramic Capacitor-SL	100P 50V J	C:303,403	01
VZ353600		Ceramic Cap.-B	220P 50V K	C:101-103,111-113, 121-123,132,148	01
VZ354000		Ceramic Capacitor-F	0.01 50V Z	C:161-168,212-215,216, 351,451	01
VZ354600		Monolithic Ceramic Cap.	0.1 50V Z	C:513	01
UJ838100		Electrolytic Cap.	100.00 16.0V	C:147,304,404	01
UJ847100		Electrolytic Cap.	10.00 25.0V	C:354,454	01
UJ847470		Electrolytic Cap.	47.00 25.0V	C:210,211,503,504,508	01
UJ848470		Electrolytic Cap.	470.00 25.0V	C:502	01
UJ858470		Electrolytic Cap.	470.00 35.0V	C:505,506	01
UJ866100		Electrolytic Cap.	1.00 50.0V	C:142	01
UJ866220		Electrolytic Cap.	2.2 50.0V	C:510	01
UJ866470		Electrolytic Cap.	4.70 50.0V	C:131	01
UJ867100		Electrolytic Cap.	10.00 50.0V	C:146,507,509	01
UJ867220		Electrolytic Cap.	22.00 50.0V	C:143	01
UJ877100		Electrolytic Cap.	10.00 63.0V	C:301,302,401,402	01
UJ896470		Electrolytic Cap.	4.7 100.0V	C:355,356,455,456	01

* New Parts

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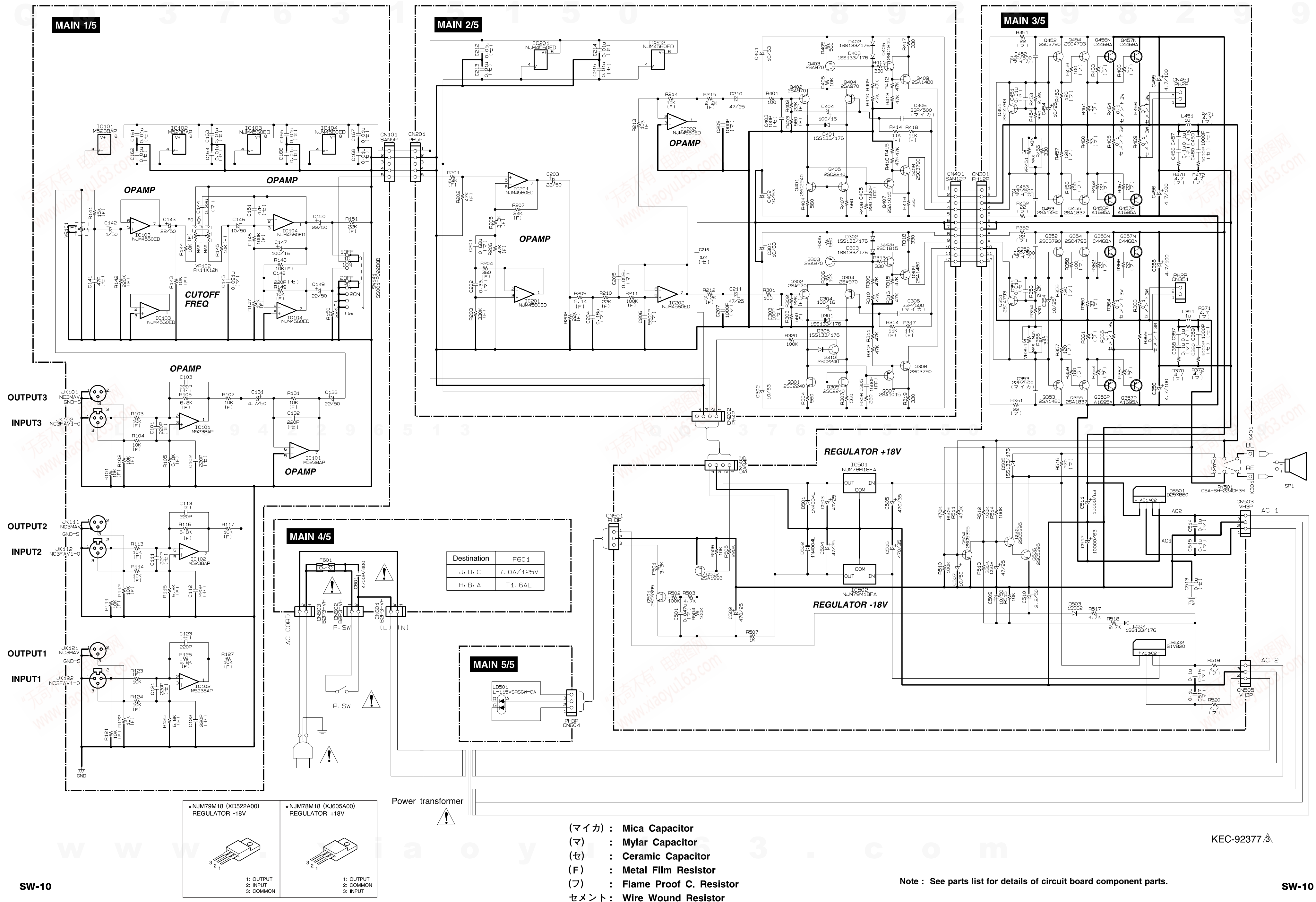
REF NO.	PART NO.	DESCRIPTION		REMARKS	QTY	RANK
*	V2728800	Electrolytic Cap.-VX	22 50.0V	C:133,149,150,203		
*	V4245500	Electrolytic Cap.	10000 63.0V	C:511,512		
	FU451220	Mica Capacitor	22P 500V J	C:352,353,452,453		01
	FU451330	Mica Capacitor	33P 500V J	C:306,406		01
	VY704000	Capacitor	4700P 400V J.U.C.S	C:601		01
	HF455100	Carbon Resistor	100.0 1/4 J	R:301,401		01
	HF455220	Carbon Resistor	220.0 1/4 J	R:308,408		01
	HF455270	Carbon Resistor	270.0 1/4 J	R:355,455		01
	HF455330	Carbon Resistor	330.0 1/4 J	R:313,318,319,354,411, 417,419,454		01
	HF455560	Carbon Resistor	560.0 1/4 J	R:304,305,307,404,405,407		01
	HF456100	Carbon Resistor	1.0K 1/4 J	R:507		01
	HF456220	Carbon Resistor	2.2K 1/4 J	R:353,453		01
	HF456270	Carbon Resistor	2.7K 1/4 J	R:518		01
	HF456330	Carbon Resistor	3.3K 1/4 J	R:501		01
	HF456470	Carbon Resistor	4.7K 1/4 J	R:503,517		01
	HF457100	Carbon Resistor	10.0K 1/4 J	R:306,406,506,515		01
	HF457470	Carbon Resistor	47.0K 1/4 J	R:309-312,315,316,409, 410,412,413,415,416		01
	HF458100	Carbon Resistor	100.0K 1/4 J	R:320,502,504,510,512,514		01
	HF458220	Carbon Resistor	220.0K 1/4 J	R:505		01
	HF458330	Carbon Resistor	330.0K 1/4 J	R:513		01
	HF458470	Carbon Resistor	470.0K 1/4 J	R:509,511		01
	VV276700	Flame Proof C. Resistor	4.7 1/4 J	R:370-372,470-472,519,520		01
	VV276800	Flame Proof C. Resistor	100 1/4 J	R:358,359,458,459		01
	VZ008500	Flame Proof C. Resistor	120.0 1/4 J	R:356,357,456,457		01
	VZ008800	Flame Proof C. Resistor	22.0 1/4 J	R:351,352,362,363,366, 367,451,452,462,463, 466,467		01
*	VZ008900	Flame Proof C. Resistor	270.0 1/4 J	R:516		
	VZ009100	Flame Proof C. Resistor	33.0 1/4 J	R:360,361,460,461		01
	V2348800	Metal Film Resistor	100.0K 1/4 F	R:146,211		
*	V4403600	Metal Film Resistor	360 1/4 F	R:204		
*	V4404000	Metal Film Resistor	3.3K 1/4 F	R:205		
*	V4405600	Metal Film Resistor	330K 1/4 F	R:203		
	VV065100	Metal Film Resistor	2.2K 1/4 F	R:212,215		01
	VV065300	Metal Film Resistor	6.8K 1/4 F	R:105,106,115,116,125,126		01
	VV065500	Metal Film Resistor	10K 1/4 F	R:101-104,107,111-114, 117,121-124,127,131, 143-145,147-149,213,214		01
	VV065600	Metal Film Resistor	11K 1/4 F	R:314,317,414,418		05
	VV065900	Metal Film Resistor	24K 1/4 F	R:201,207		01
	VV066100	Metal Film Resistor	47K 1/4 F	R:202,206		01
	VV312900	Metal Film Resistor	22K 1/4 F	R:150,151,208,210,302,402		01
	VV313500	Metal Film Resistor	220K 1/4 F	R:142		01
	VZ009900	Metal Film Resistor	15K 1/4 F	R:141		01
	VZ010300	Metal Film Resistor	5.1K 1/4 F	R:209		01
	VZ010600	Metal Film Resistor	560.0 1/4 F	R:303,403		01
*	V4579300	Wire Wound Resistor	0.1 3W K	R:364,365,368,369,464, 465,468,469		
*	XW561A00	Speaker	250mm			
⚠	XW544A00	Power Transformer	A	J		
⚠	XW545A00	Power Transformer	UC A	U, V		
⚠	XW546A00	Power Transformer	CEE A	H, W, B		
⚠	XW547A00	Power Transformer	A A	A		
⚠	V3277000	AC Cord	J VCTF 2X0.75 12A	J		05
⚠	VV205600	AC Cord	UC SJT 3X#18 10A	U, V		06
⚠	V3277100	AC Cord	E H05VV-F3X0.7510A	H, W, A		06
⚠	VV058300	AC Cord	BS H05VV-F3X0.75	B		08
⚠	VM744600	Switch	SDDTA1-A-1 J.U.C.H	POWER		06

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SW-10 OVERALL CIRCUIT DIAGRAM

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