

KC-500

STEREO MIXING KEYBOARD AMPLIFIER

SERVICE NOTES

*First Edition**Issued by RJA*

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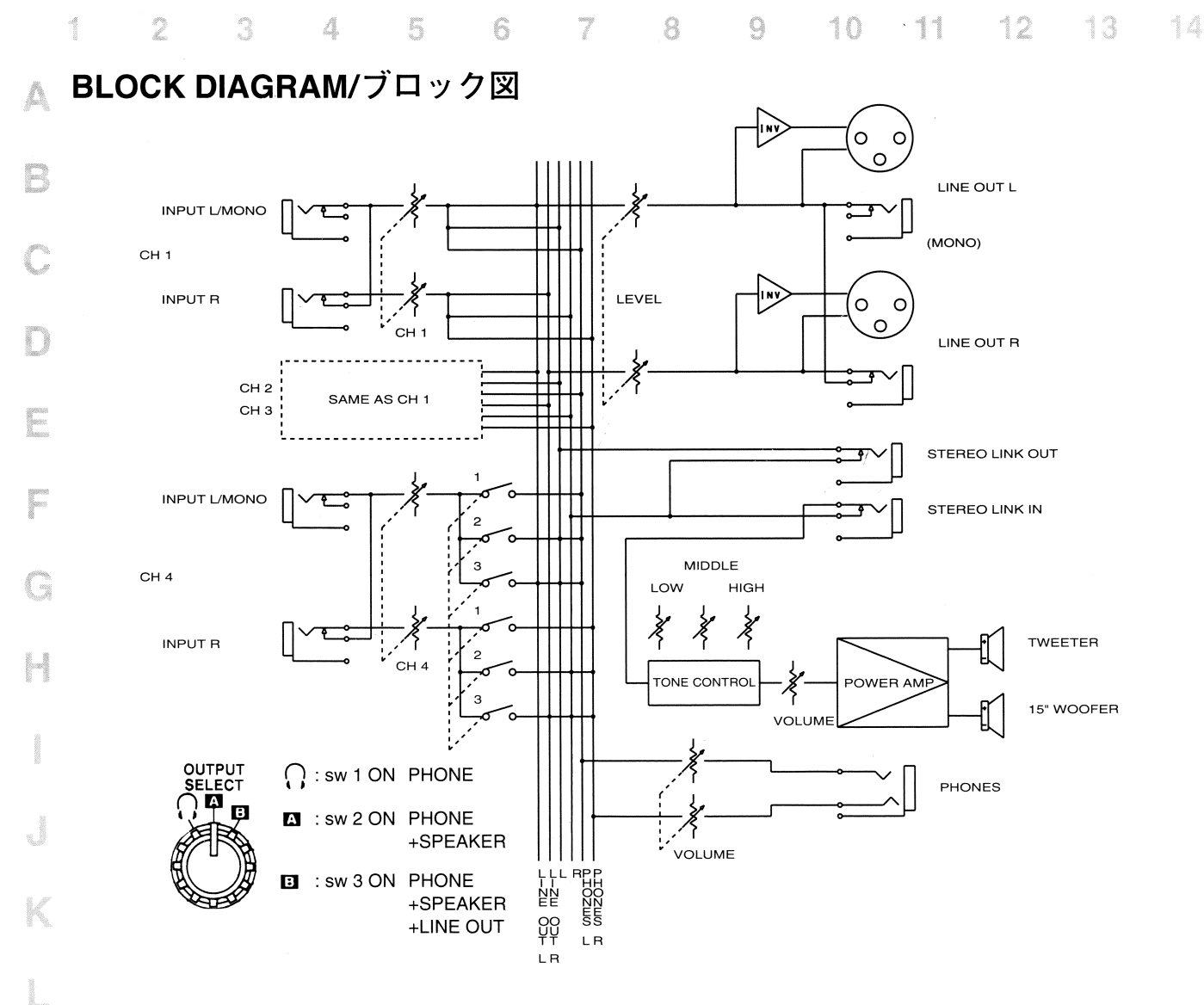
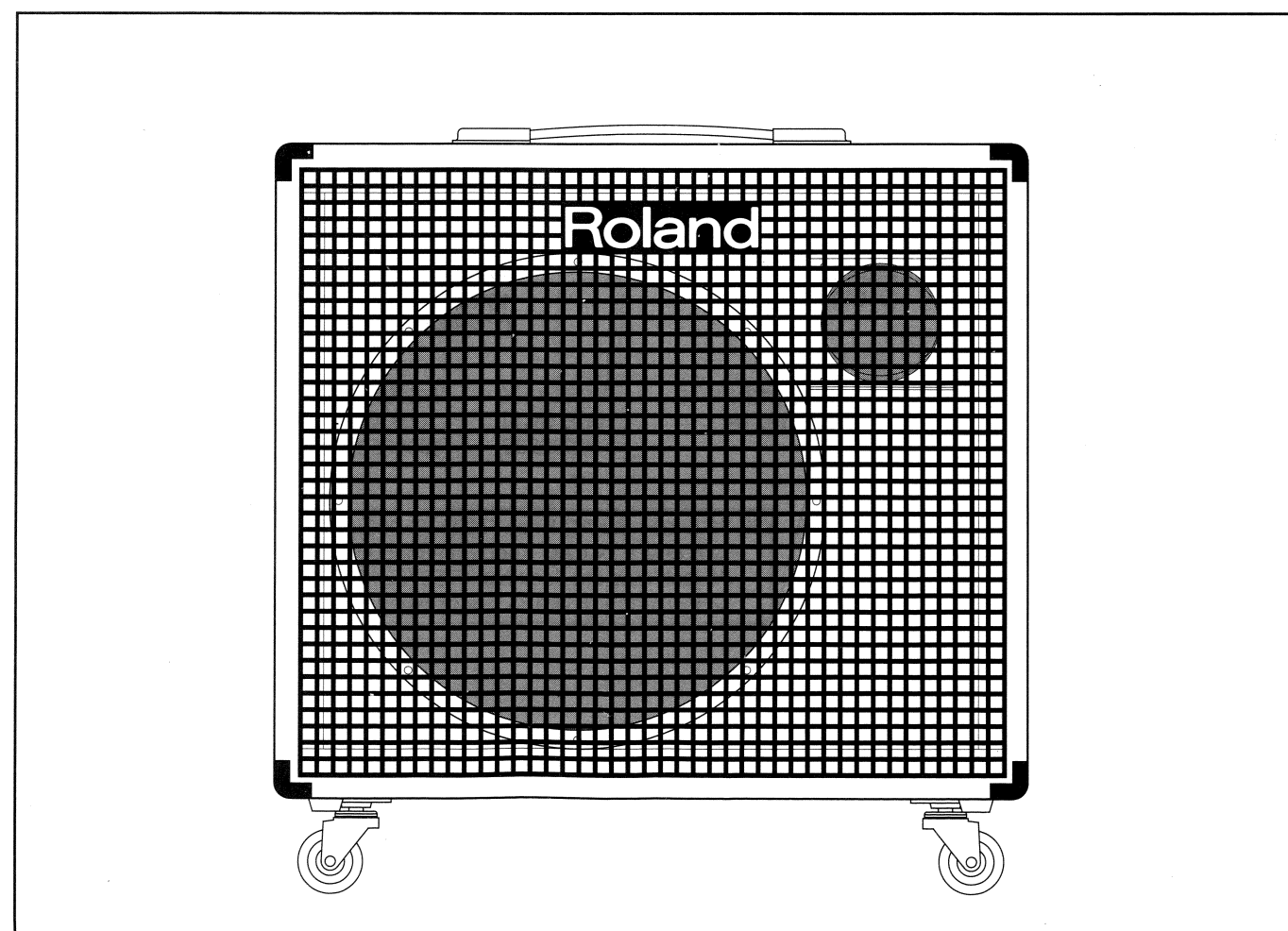
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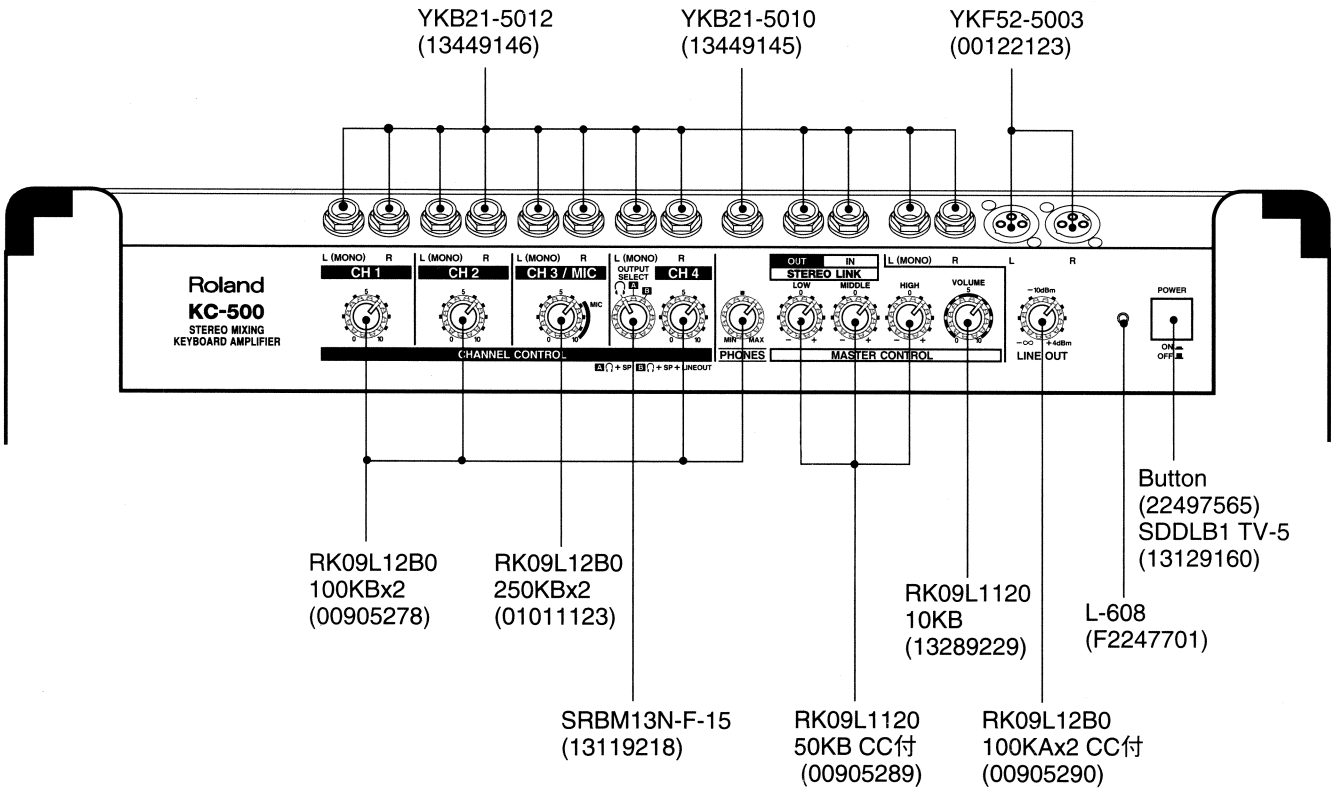
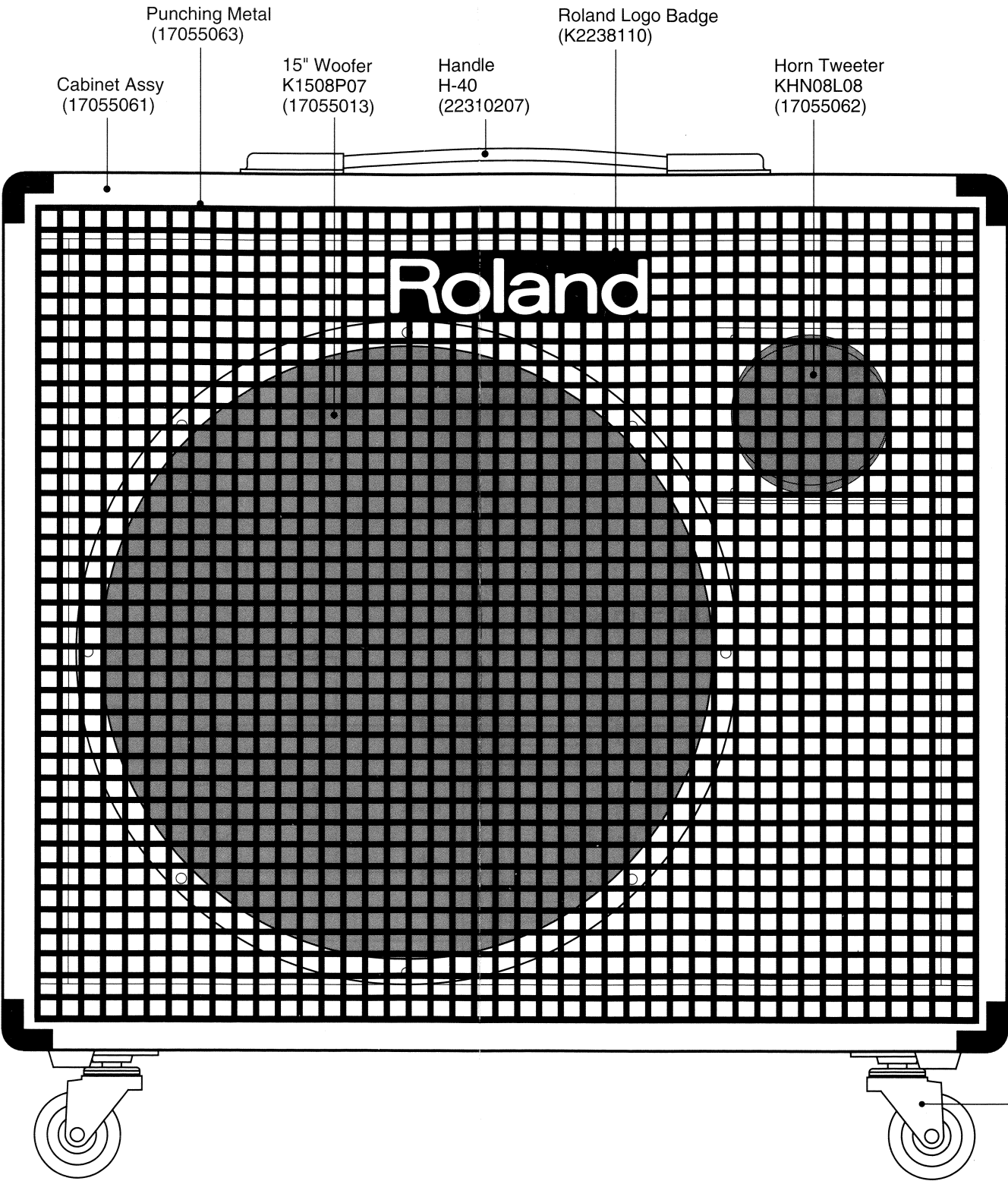
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SPECIFICATIONS/仕様

◎Rated Power Output/定格出力	Speaker / スピーカー出力:150W Phones / ヘッドフォン出力:90mW+90mW (両チャンネル100Ω負荷時)
◎Nominal Input Level/規定入力レベル	INPUT Channel 1,2,4 : -20dBm Channel 3 : -50dBm STEREO LINK IN : 0dBm
◎Nominal Output Level/規定出力レベル	STEREO LINK OUT : 0dBm LINE OUT : +4dBm 0dBm=0.775Vrms
◎Speaker/スピーカー	38cm (15")×1+Horn Tweeter×1
◎Controls/コントロール	Channel 1 VOLUME Channel 2 VOLUME Channel 3 VOLUME Channel 4 OUTPUT SELECT Switch PHONES VOLUME LOW MIDDLE HIGH VOLUME LINE OUT LEVEL
◎Connectors/接続端子	Channel 1 INPUT Jack (L/MONO, R) Channel 2 INPUT Jack (L/MONO, R) Channel 3 INPUT Jack (L/MONO, R) Channel 4 INPUT Jack (L/MONO, R) PHONES Jack STEREO LINK Jack (IN, OUT) LINE OUT Jack (XLR Balanced L, R, 1/4" Phone Unbalanced L/MONO, R)
◎Power Consumption/消費電力	85W (AC100V) 125W (AC117V, 230V or 240V)
◎Dimensions/外形寸法	590 (W) ×448 (D) ×591 (H) mm 23-1/4(W)×17-11/16(D)×23-5/16(H)inches
◎Weight/重量	31.5kg 69lbs 8oz
◎Accessories/付属品	Owner's Manual(Japanese) (00908978) Owner's Manual(English) (00908956)



LOCATION OF CONTROLS/パネル配置図



※ All knobs are AC Knob (7098605000).
つまみはすべてAC Knob (7098605000) です。
All jack nuts are Jack Nut #756 (2215075600).
ジャックナットはすべてJack Nut #756 (2215075600) です。

EXPLODED VIEW(CABINET)/分解図 (キャビネット)

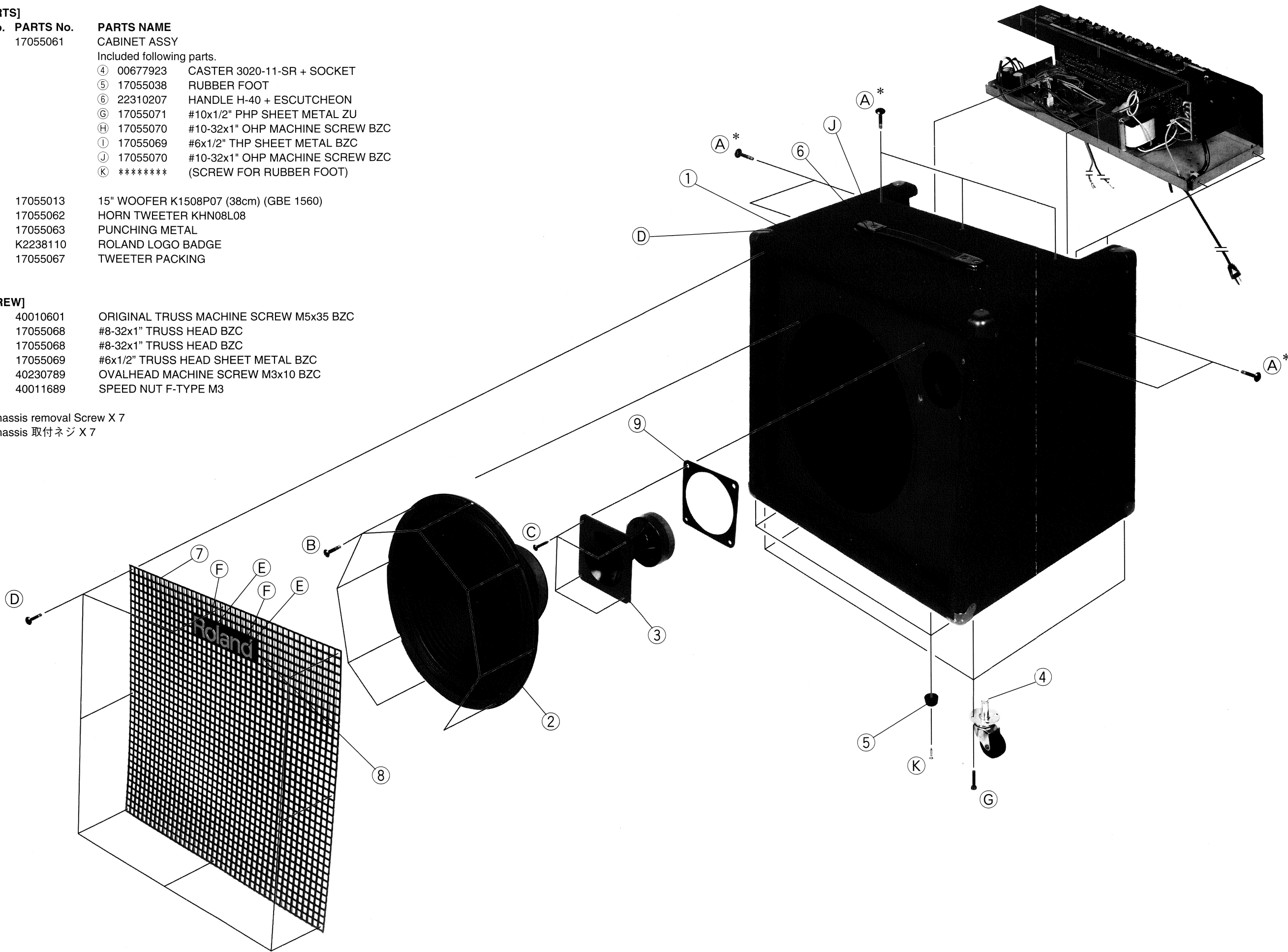
[PARTS]

No.	PARTS No.	PARTS NAME
①	17055061	CABINET ASSY
Included following parts.		
④	00677923	CASTER 3020-11-SR + SOCKET
⑤	17055038	RUBBER FOOT
⑥	22310207	HANDLE H-40 + ESCUTCHEON
⑨	17055071	#10x1/2" PHP SHEET METAL ZU
⑩	17055070	#10-32x1" OHP MACHINE SCREW BZC
⑪	17055069	#6x1/2" THP SHEET METAL BZC
⑫	17055070	#10-32x1" OHP MACHINE SCREW BZC
⑬	*****	(SCREW FOR RUBBER FOOT)
②	17055013	15" WOOFER K1508P07 (38cm) (GBE 1560)
③	17055062	HORN TWEETER KHN08L08
⑦	17055063	PUNCHING METAL
⑧	K2238110	ROLAND LOGO BADGE
⑨	17055067	TWEETER PACKING

[SCREW]

Ⓐ	40010601	ORIGINAL TRUSS MACHINE SCREW M5x35 BZC
Ⓑ	17055068	#8-32x1" TRUSS HEAD BZC
Ⓒ	17055068	#8-32x1" TRUSS HEAD BZC
Ⓓ	17055069	#6x1/2" TRUSS HEAD SHEET METAL BZC
Ⓔ	40230789	OVALHEAD MACHINE SCREW M3x10 BZC
Ⓕ	40011689	SPEED NUT F-TYPE M3

* Chassis removal Screw X 7
Chassis 取付ネジ X 7



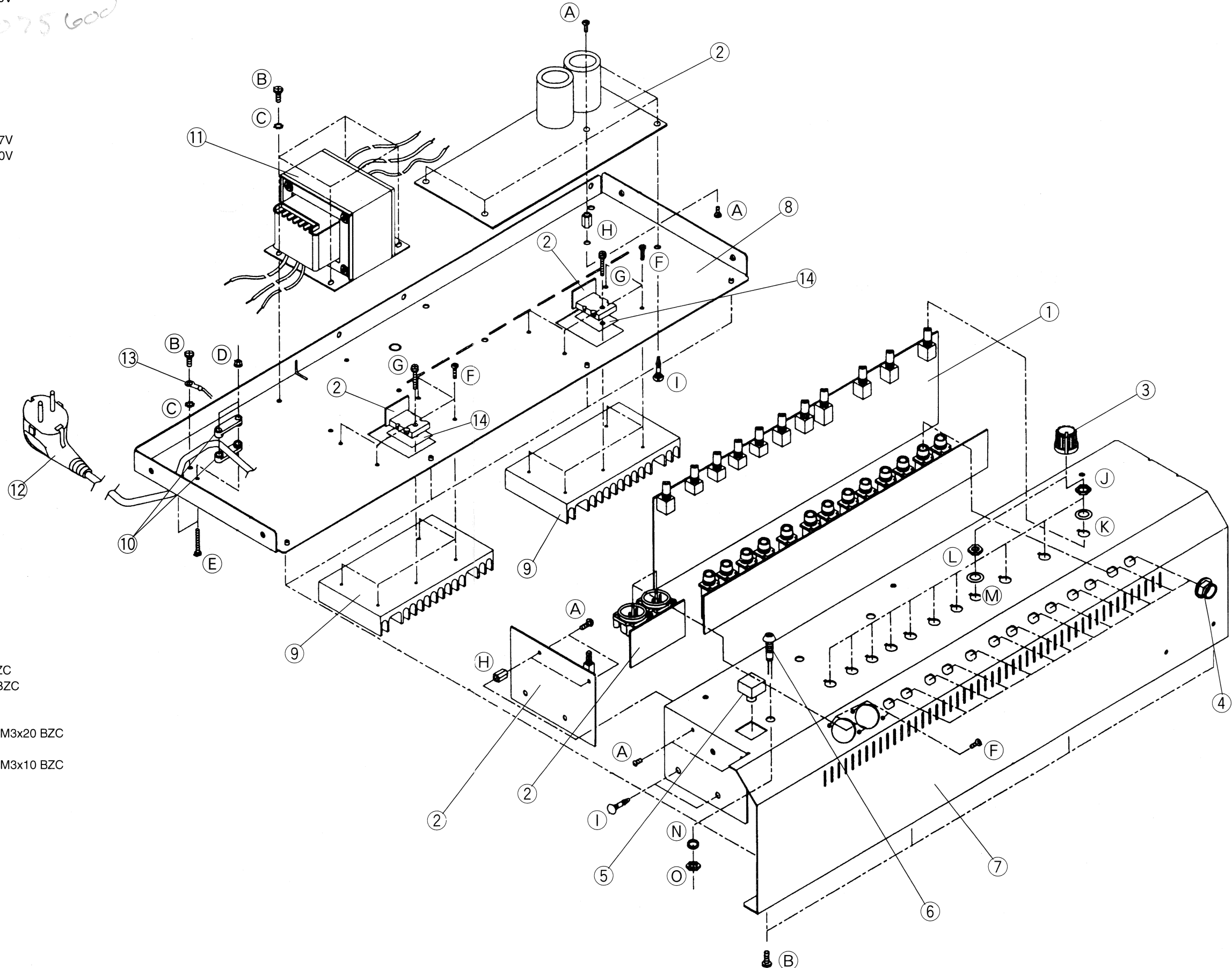
EXPLODED VIEW(CHASSIS)/分解図 (シャーシ)

[PARTS]

No.	PARTS No.	PARTS NAME
①	0090615600	PREAMP BOARD ASSY
②	0090618900	MAINAMP BOARD ASSY 230/240V
③	2215075600	AC KNOB
④	7098605000	JACK NUT #756
⑤	22497565	POWER BUTTON
⑥	F2247701	POWER LED L-608
⑦	G2217114	PANEL
⑧	G2817112	CHASSIS
⑨	G2467104	HEATSINK K-123
⑩	12369410RT	CORD HOLDER 1702B
⑪	G2457129	POWER TRANSFORMER 100/117V
	G2457130	230/240V
⑫	G3497123	AC CORD VCTF 100V
	G3497124	SJT 3P 117V
	G3497125	SY010 BLK 230V
	G3497127	5722-660-4527 230VE
	G3497126	FC-305 240VA
⑬	F4009831	230/240V WIRING J
⑭	G2257113	TO-3P INSULATING SHEET

[SCREW]

Ⓐ	40010178	BINDING MACHINE SCREW M3x6 ZC
Ⓑ	40010334	BINDING MACHINE SCREW M4x8 BZC
Ⓒ	40011889	EXT TOOTH WASHER M4 ZC
Ⓓ	40011756	FLANGE NUT M3 ZC
Ⓔ	H5019411	BINDING MACHINE SCREW W/SW M3x20 BZC
Ⓕ	40011312	BINDING TAPTITE P 3x8 BZC
Ⓖ	40010434	BINDING MACHINE SCREW W/SW M3x10 BZC
Ⓗ	22157501	STAND OFF M3 L10
Ⓘ	F2199505	SPACER SCB-10
Ⓙ	*****	VR NUT M9
Ⓚ	*****	VR WASHER M9
Ⓛ	*****	VR NUT M7
Ⓜ	*****	VR WASHER M7
Ⓝ	*****	LED WASHER M8
Ⓞ	*****	LED NUT M8



PARTS LIST/パーツリスト

SAFETY PRECAUTIONS:

The parts marked △ have safety-related characteristics.

Use only listed parts for replacement.

安全上の注意:

△が付いている部品は、安全上特別な規格でつくられたものです。

交換の際は、指定された部品番号以外の部品は使わないようにして下さい。

CONSIDERATIONS ON PARTS ORDERING

When ordering any parts listed in the parts list, please specify the following items in the order sheet.

QTY	PART NUMBER	DESCRIPTION	MODEL NUMBER
Ex. 10	22575241	Sharp Key	C-20/50
15	2247017300	Knob (orange)	DAC-15D

Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

パーツ発注に関するお願い

オーダーシートには、必ず下記の4項目は正確に記入して下さい。(例外は除く)

必要数	パーツナンバー	品名	使用機種
例) 10	22575241	Sharp Key	C-20/50
15	2247017300	Knob (orange)	DAC-15D

もし記入漏れ、誤記等がある場合、必要部品が発送出来なかったり、大遅な遅れの原因になります。

御協力をお願いします。

PR	====>	PRE AMP BOARD	JK	====>	JACK BOARD
MN	====>	MAIN AMP BOARD	PS	====>	POWER SW BOARD
XLR	====>	XLR BOARD			

NOTE : The parts marked # are new (initial parts)

注　　# のついた部品は新規部品です。

CABINET／キャビネット

#	17055061	Cabinet Assy NOTE:Replacement Cabinet Assy includes the following parts. 注意:補修用 Cabinet Assy は以下の部品を含みます。
		22310207 Handle H-40 + Escutcheon
		17055035 Corner Protector
		17055038 Rubber Foot
	#	00677923 Caster 3020-11-SR + Socket
#	17055063	Punching Metal
	K2238110	Roland Logo Badge

SPEAKER／スピーカー

	17055013	15" Woofer K1508P07 (38cm)
#	17055062	Horn Tweeter KHN08L08

CHASSIS／シャーシ

#	G2217114	PANEL
#	G2817112	CHASSIS

KNOB,BUTTON／ツマミ、ボタン

	7098605000	AC Knob	
	22497565	Button	POWER SW

SWITCH／スイッチ

△	13129160	SDDL1 TV-5	POWER SW	SW2 on PS
	13119218	SRBM13N-F-15	ROTARY SW	SW1 on PR

JACK,SOCKET／ジャック、ソケット

	13449145	YKB21-5010	JK9 on JK
	13449146	YKB21-5012	JK1,2,3,4,5,6,7,8,10,11,12,13 on JK
	00122123	YKF52-5003	JK14,15 on XLR

PCB ASSY／基板完成品

#	0090615600	PREAMP BOARD ASSY NOTE:Replacement PREAMP BOARD ASSY includes the following PCBs. 注意:補修用 PREAMP BOARD ASSY は以下の部品を含みます。
		Pre Amp Board、Jack Board.
#	0090618900	MAINAMP BOARD ASSY 230V/240V NOTE1:Replacement MAINAMP BOARD ASSY 230V/240V includes the following PCBs. 注意1　:補修用MAINAMP BOARD ASSY 230V/240Vは以下の部品を含みます。
		Main Amp Board、XLR Board、Power SW Board.

NOTE2:Replacement MAINAMP BOARD ASSY(Power SW Board) is 230V/240V version only. 230V/240V version differ from 100V/117V version only in fuse system. When using Power SW Board for 100V/117V version, replace fuse of specify voltage version.(refer to TABLE A)

注意2：補修用MAINAMP BOARD ASSY(Power SW Board) は230V／240V仕様のみが供給されます。100V／117V仕様との違いはヒューズのみです。

Power SW Board を100V／117V仕様の製品に使用する際はヒューズを適切なものに交換して下さい。(TABLE A参照)

TABLE A	
	FUSE 1
100V/117V	FUSE SB 5.2x20 4A
230V/240V	FUSE CEE 2.5A

FUSE,FUSE HOLDER／ヒューズ、ヒューズホルダー

△	12559444	Fuse SB 5.2x20 4A	100V/117V	on PS
#△	F2559105	Fuse CEE 2.5A	230V/240V	on PS
△	12199550RT	Fuse Holder		on PS
△	F2029601	Fuse Cover FH-1		on PS

POWER TRANSFORMER／トランス

#△	G2457129	TRANSFORMER	100V/117V
#△	G2457130	TRANSFORMER	230V/240V

AC CORD／ACコード

#△	G3497123	AC Cord VCTF	100V
#△	G3497124	AC Cord SJT 3P	117V
#△	G3497125	AC Cord SY010 BLK	230V
#△	G3497127	AC Cord 5722-660-4527	230VE
#△	G3497126	AC Cord FC-305	240VA

IC／集積回路

	15189250	M5218AL
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TRANSISTOR／トランジスター

	15119158	2SA970GR	Q205,206 on MN
	15119132	2SA1015GR	Q207 on MN
#△	00905256	2SA1553O	Q213 on MN
△	15119723	2SA1837	Q211 on MN
△	15119820	2SB1017Y	Q202 on MN
	15129151	2SC1815GR	Q204,208 on MN
	15129410	2SC2229Y	Q209 on MN
	15129192	2SC2240GR	Q5,6 on PR
#△	00905267	2SC4029O	Q212 on MN
△	15129732	2SC4793	Q210 on MN
△	15129835	2SD1408Y	Q201 on MN
	15139103	2SK30	Q1,2,3,4 on PR Q203 on MN

DIODE／ダイオード

	15019126	1SS133	D2,3,4,5 on PR D204,206 on MN D205,207 on MN
#△	F5019203	1N4004	D201,202 on MN
#△	F5019401	RD16EB2	D203 on MN
△	F5039112DG	PBPC803	D1 POWER LED
#	F2247701	L-608	

POTENTIOMETER／ボリューム

	13289229	RK09L1120 10KB	VR9 on PR
#	00905289	RK09L1120 50KB CC	VR6,7,8 on PR
#	00905290	RK09L12B0 100KAx2 CC	VR10 on PR
#	00905278	RK09L12B0 100KBx2	VR1,2,4,5 on PR
#	01011123	RL09L12B0 250KBx2	VR3 on PR

CAPACITOR／コンデンサー

#	F3519851	Ceramic 150p/500V	C219,231 on MN
#	F3519501	Ceramic PY17FY472MC0	C62 on PS
#	F3519502	Ceramic EC8472MH	C212 on MN
#	01015678	Metallized Polyester 1.8u/100V	C229
	13649101M0	Electolytic Bi-polar 1u/50V	C211 on MN
#	F3639441	Electolytic 3300u/100V	C201,202 on MN

RESISTOR／抵抗

#	13749101	Carbon 4.7kΩ 1/2W	R203,204 on MN
	13749301	Carbon 470Ω 2W	R201,202 on MN
#△	13829165	Oxyde Metal 1.3kΩ 1W	R230 on MN
#△	F2559801	Fuseble 3.3Ω 1/4W	R215,216 on MN
#△	F2559802	Fuseble 150Ω 1/4W	R217 on MN
△	13839615RT	Cement 0.33Ω 5W	R232,233 on MN
#	13839198	Cement 15Ω 5W	R241 on MN

WIRING／ワイヤリング

#	F3439110	Wiring A	CN6(on PR)→CN7(on XLR)
#	F3439111	Wiring B	CN1(on PR)→CN201(on MN)
#	G3477127	Wiring C	CN2(on PR)→CN3(on JK)
#	G3477128	Wiring D	CN4(on PR)→CN5(on JK)
	F3439109	Wiring E	POWER LED
#	H4019318	Wiring F	Speaker Cable RED,BLACK
#	H4019321	Wiring G	Speaker Cable RED,YELLOW
#	F4009791	Wiring H	Q212
#	F4009811	Wiring I	Q213
#	F4009831	Wiring J	T1(on PS)→Chassis GND (for 230V,230VE,240VA)

SCREWS／ネジ類

#	22157501	Stand Off #501 M3 10mm
	40010178	Binding Machine Screw M3x6 ZC
	40010334	Binding Machine Screw M4x8 BZC
#	40010434	Binding Machine Screw W/SW M3x10 BZC
#	H5019411	Binding Machine Screw W/SW M3x20 BZC
	40011312	Binding Taptite P 3x8 BZC
	40011889	Exi Tooth Washer M4 ZC
#	40011756	Flange Nut M3 ZC
#	*****	VR Nut M9
#	*****	VR Washer M9
#	*****	VR Nut M7
#	*****	VR Washer M7
#	*****	LED Washer M8
#	*****	LED Nut M8
	40010601	Original Truss Machine Screw M5x35 BZC
#	40011689	Speed Nut F-type M3
#	40230778	Oval Machine Screw M3x8 BZC
	17055042	#6x1/2" THP Black Oxide (fix Corner Protector to cabinet/Corner Protector固定用)
#	17055068	#8-32x1" Truss Head BZC (fix 15" Woofer and Tweeter to cabinet/15" Woofer,Tweeter固定用)
#	17055069	#6x1/2" THP Sheet Metal BZC (fix Punching Metal to cabinet/Punching Metal固定用)
#	17055070	#10-32x1" OHP Machine Screw BZC (fix Handle to cabinet/Handle固定用)
#	17055071	#10x1/2" PHP Sheet Metal ZU (fix Caster to cabinet/Caster固定用)

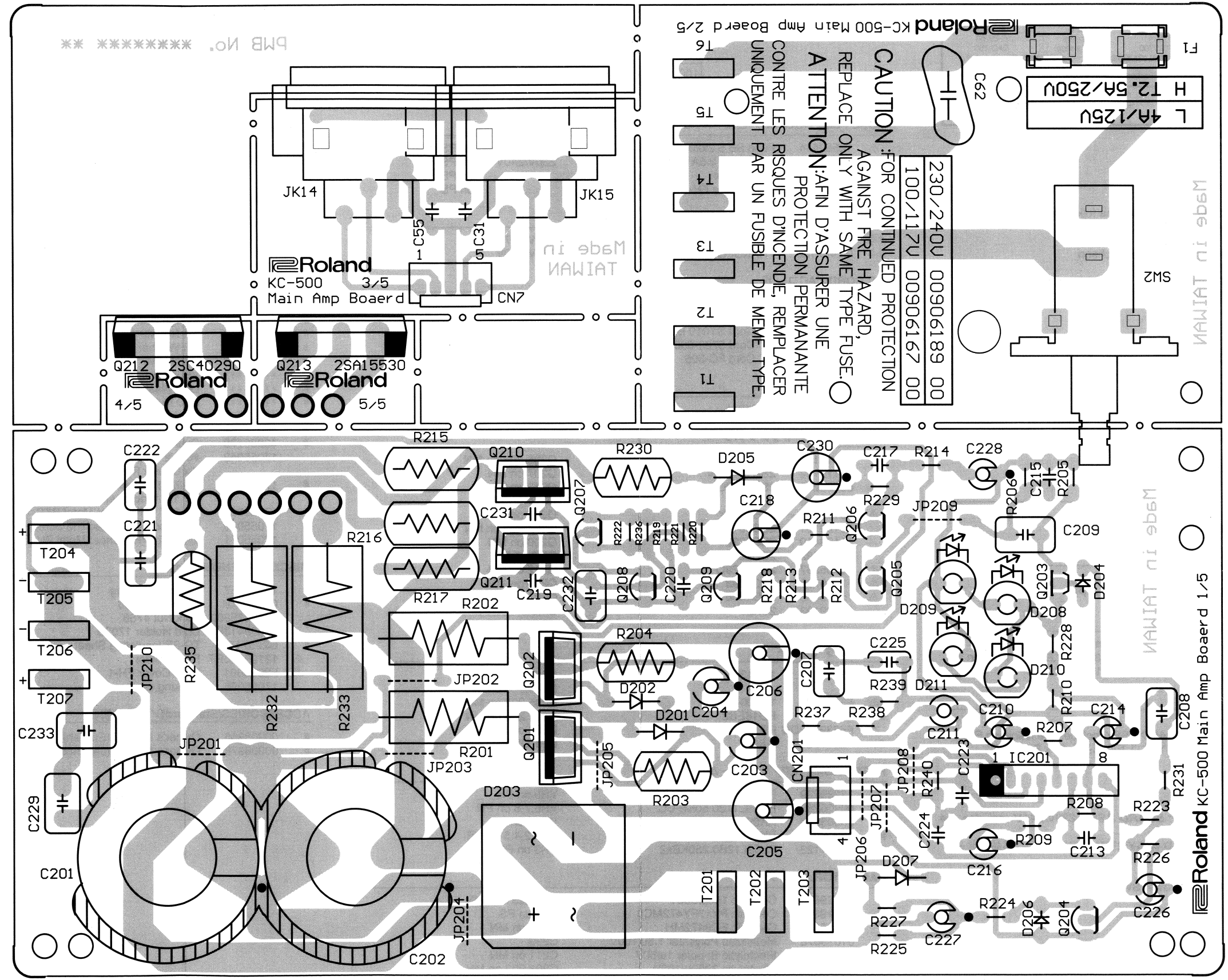
MISCELLANENOUS／その他

#	17055067	Tweeter Packing	for Tweeter
#	G2467104	Heatsink K-123	
	2215075600	Jack Nut #756	
	12369410RT	Cord Holder 1702B	
#	G2257113	TO-3P Insulating Sheet	
△	12199550RT	Fuse Holder	on PS
△	F2029601	Fuse Cover FH-1	on PS
	17055066	Packing case	for packing

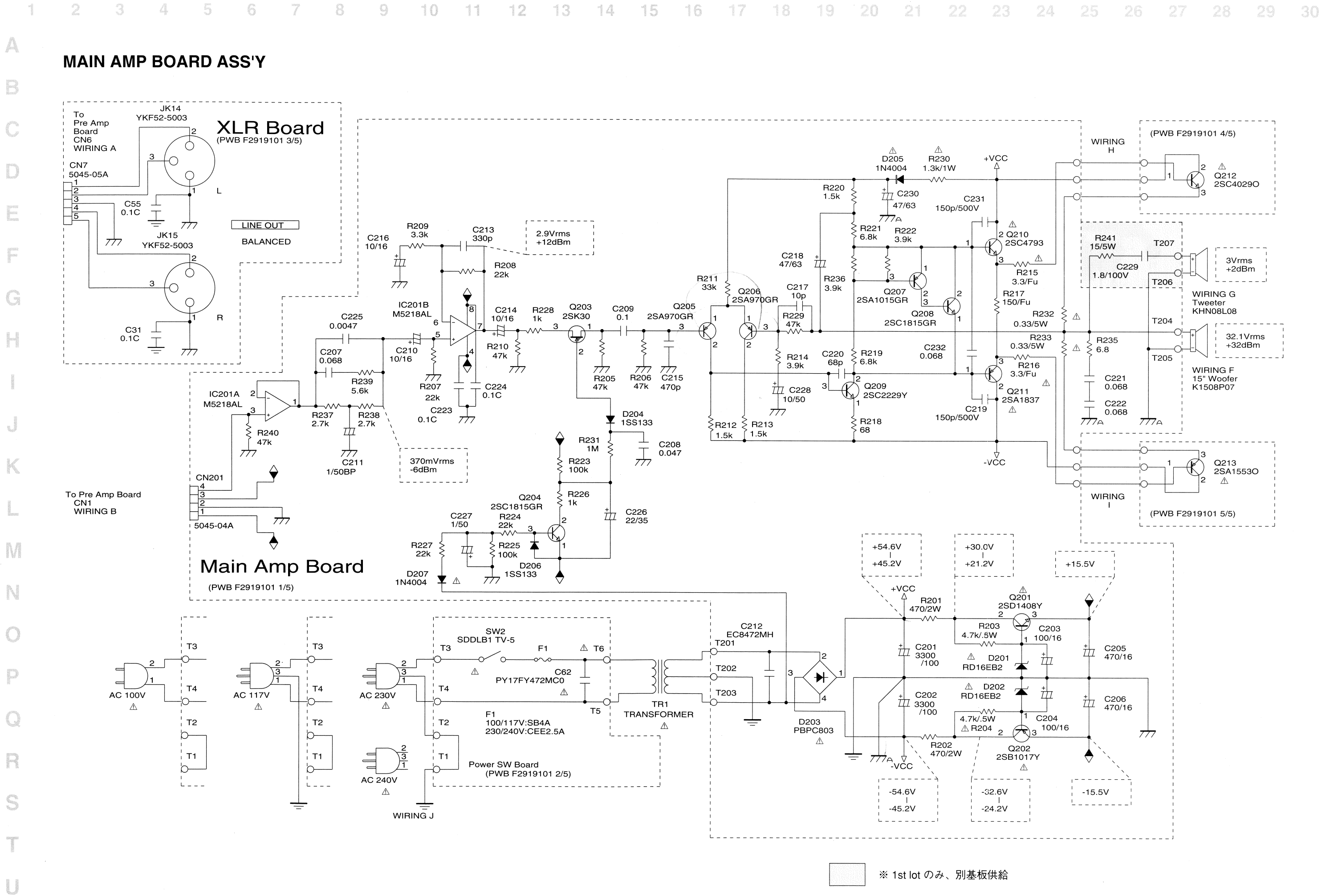
ACCESSORIES(Standard)／標準付属品

#	00908956	Owner's Manual (English)
#	00908978	Owner's Manual (Japanese)

MAIN AMP BOARD ASS'Y
ASSY 0090618900

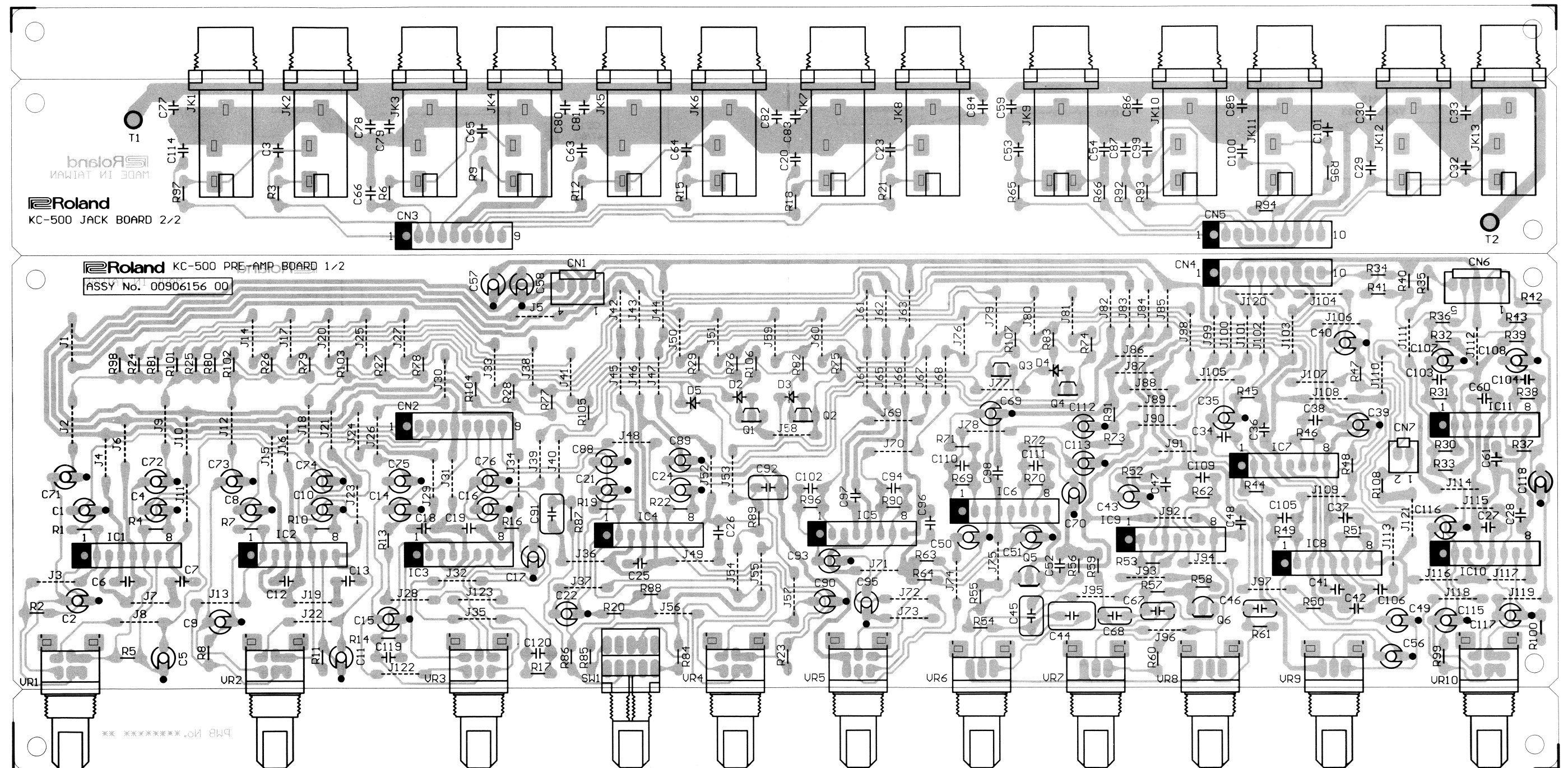


View from component side

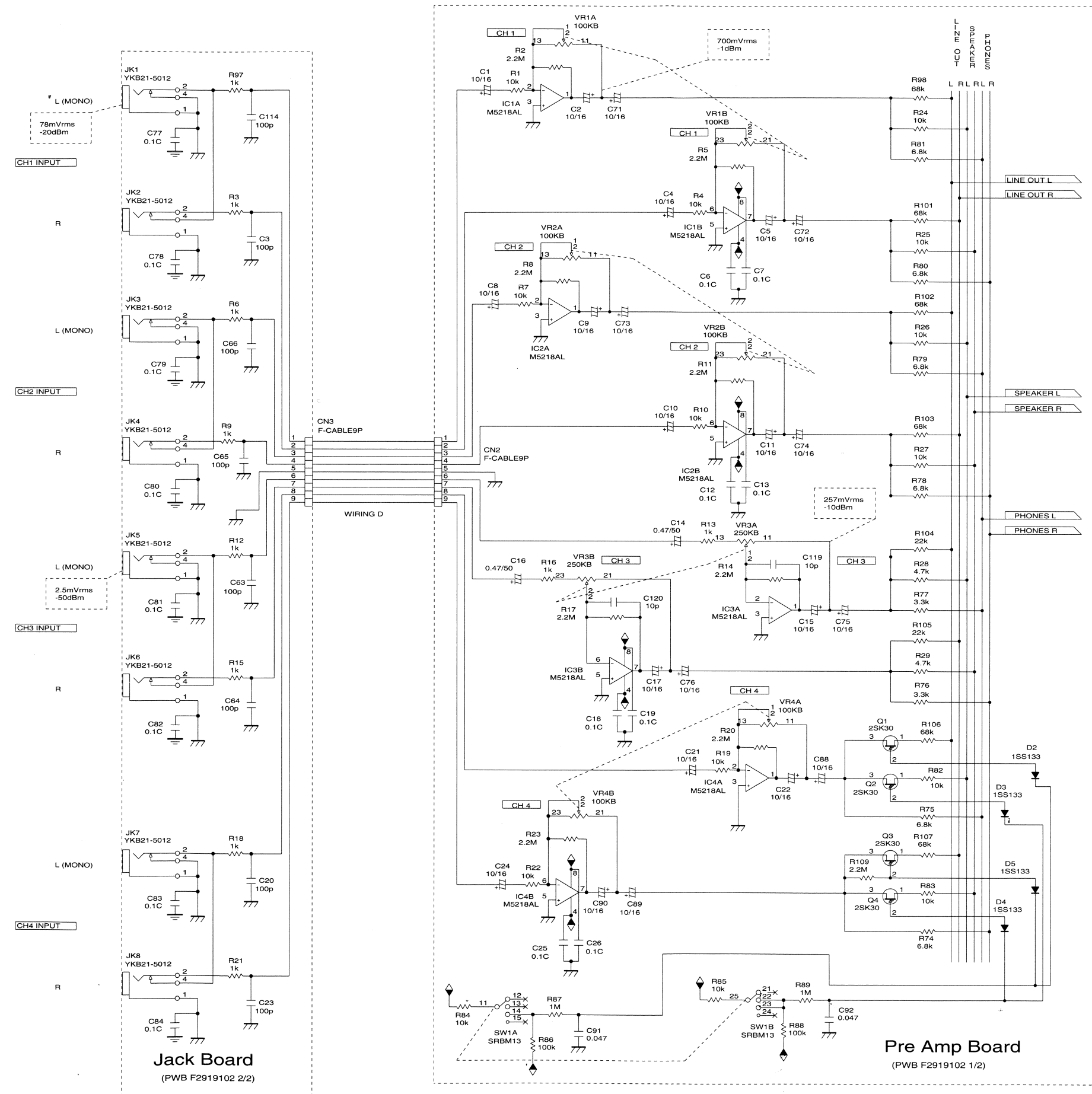


PRE AMP BOARD ASS'Y

ASSY 0090618900



PRE AMP BOARD ASS'Y 1/2



PRE AMP BOARD ASS'Y 2/2

