

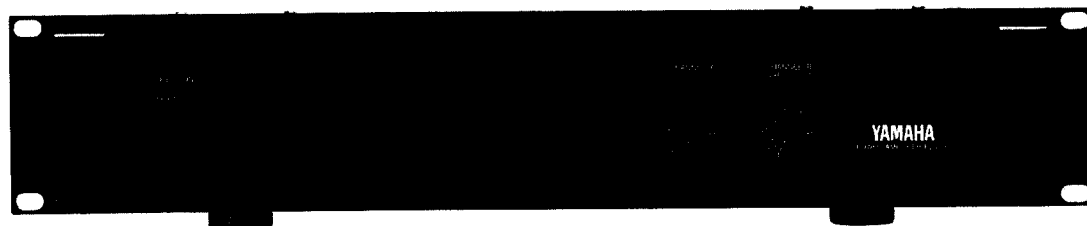
POWER AMPLIFIER

P2075/P2075C

SERVICE MANUAL



P2075



P2075C

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YAMAHA

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P2075/P2075C

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: The 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 principle-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.

SPECIFICATIONS

POWER OUTPUT LEVEL

(STEREO)	50W + 50W	RL = 8ohms, f = 20Hz to 20kHz, THD \leq 0.05%
	75W + 75W	RL = 4ohms, f = 20Hz to 20kHz, THD \leq 0.1%
(BTL-MONO)	100W	RL = 16ohms, f = 20Hz to 20kHz, THD \leq 0.05%
	150W	RL = 8ohms, f = 20Hz to 20kHz, THD \leq 0.1%

FREQUENCY RESPONSE

+0, -1dB, f = 10Hz to 30kHz, RL = 8ohms, PO = 1W

POWER BAND WIDTH (THD \leq 0.1%)

(STEREO)	10Hz to 50kHz	PO = 25W, RL = 8ohms, 10Hz to 50kHz
		PO = 38W, RL = 4ohms
(BTL-MONO)	10Hz to 30kHz	PO = 50W, RL = 16ohms, 10Hz to 30kHz
		PO = 75W, RL = 8ohms

TOTAL HARMONIC DISTORTION

(STEREO)	\leq 0.01%	PO = 25W, f = 1kHz, RL = 8ohms
	\leq 0.05%	PO = 25W, f = 20Hz to 20kHz, RL = 8ohms
	\leq 0.01%	PO = 38W, f = 1kHz, RL = 4ohms
	\leq 0.05%	PO = 38W, f = 20Hz to 20kHz, RL = 4ohms
(BTL-MONO)	\leq 0.01%	PO = 50W, f = 1kHz, RL = 16ohms
	\leq 0.05%	PO = 50W, f = 20Hz to 20kHz, RL = 16ohms
	\leq 0.01%	PO = 75W, f = 1kHz, RL = 8ohms
	\leq 0.05%	PO = 75W, f = 20Hz to 20kHz, RL = 8ohms

INTER MODULATION DISTORTION (70Hz, 7kHz = 4:1)

(STEREO)	\leq 0.05%	PO = 25W, RL = 8ohms, \leq 0.05% PO = 38W, RL = 4ohms
(BTL-MONO)	\leq 0.05%	PO = 50W, RL = 16ohms, \leq 0.05% PO = 75W, RL = 8ohms

CHANNEL SEPARATION (INPUT Short, ATT Max., RL = 8ohms)

<P2075>	PO = -3dB point from nominal power)
	\geq 80dB f = 1kHz
	\geq 100 f = 1kHz, RL = 8ohms, \geq 70 f = 20Hz to 20kHz, RL = 8ohms
<P2075C>	PO = -3dB point from nominal power)
	\geq 80dB f = 1kHz
	\geq 70dB f = 20Hz to 20kHz

DAMPING FACTOR

<P2075>	\geq 70
	\geq 100 f = 1kHz, RL = 8ohms, \geq 70
<P2075C>	\geq 70
	\geq 100 f = 1kHz, RL = 8ohms, \geq 70 f = 20Hz to 20kHz, RL = 8ohms

SIGNAL TO NOISE

(STEREO)	\geq 100dB	INPUT Short @ 12.7kHz LPF
	\geq 105dB	INPUT Short @ IHF-A Network
(BTL-MONO)	\geq 95dB	INPUT Short @ 12.7kHz LPF
	\geq 100dB	INPUT Short @ IHF-A Network

SLEW RATE

(STEREO)	14V/ μ sec	RL = 8ohms, Full Swing
(BTL-MONO)	26V/ μ sec	RL = 16ohms, Full Swing

SENSITIVITY

+4dBm (1.23V rms) PO = 75W, RL = 4ohms, ATT Max., f = 1kHz

VOLTAGE GAIN

23.0dB f = 1kHz, RL = 4ohms, ATT Max.

INPUT IMPEDANCE

\geq 15kohms, Balanced or unbalanced

RESIDUAL NOISE

\geq -78dBm ATT Min., @ 12.7kHz, LPF \geq -86dBm ATT Min., IHF-A Network

INDICATORS

Signal: Green LED f = 20Hz to 20kHz, VO \geq 2V Clipping: Red LED THD \geq 1%
Protection: Red LED during the protection or muting is on.
Protection: \geq 60°C Heat sink temperature
Pilot: Red LED Power ON

PROTECTION CIRCUITS

Muting: 6 \pm 2sec. After Power ON DC sense: DC \pm 2V Output Voltage
Thermal: \geq 85°C Heat sink temperature (General model)
PC limiter: ON RL = \leq 2ohms

CONTROLS

Front: 2x31 step INPUT Attenuator, Push ON/Push OFF POWER switch.
Rear: MONO/STEREO MODE switch, IN/OUT Transformer switch, Voltage Selector switch (General model only)

POWER REQUIREMENTS

General model	220/240V AC, 50/60Hz
U.S. & Canadian models	120V AC, 60Hz

POWER CONSUMPTION

General model	400W
U.S. & Canadian models	250W, 300VA

WEIGHT

9.5 kg (21 lbs)

DIMENSIONS (W x H x D)

480 x 98 x 364 (18-7/8" x 3-7/8" x 14-3/8")

ACCESSORIES

<P2075>
Rubber caps to discourage unauthorized or accidental changes in setting of input attenuators (included).

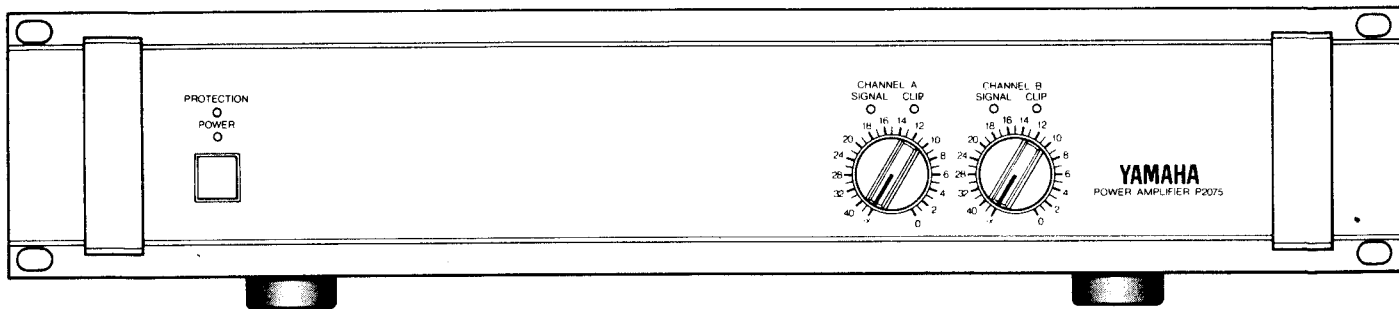
<P2075C>
Rubber caps to discourage unauthorized or accidental changes in setting of input attenuators (included). BRT15K input transformers, P150T output transformers for 25 & 70V lines (optional).

• All specifications subject to change without notice.

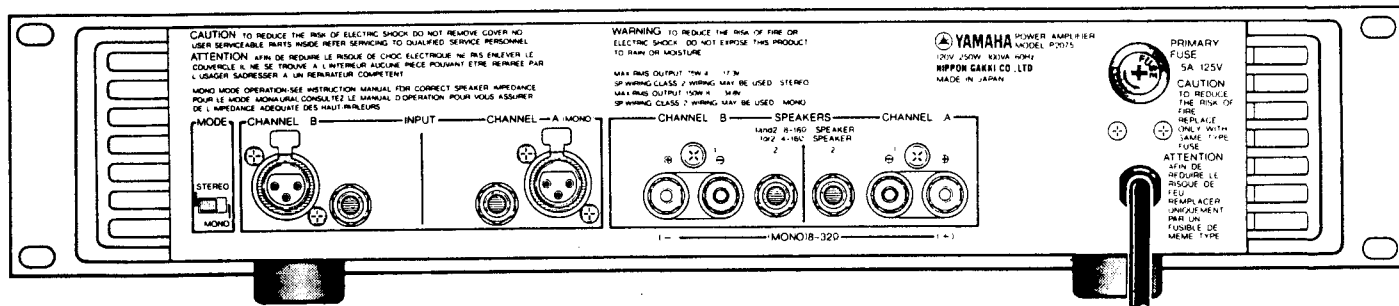
PANEL LAYOUT

P2075

● Front

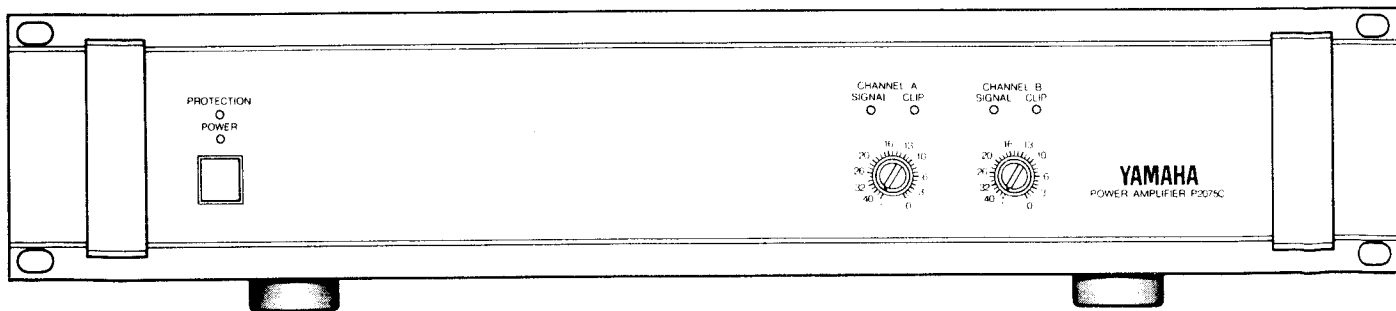


● Rear



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● Front



● Rear

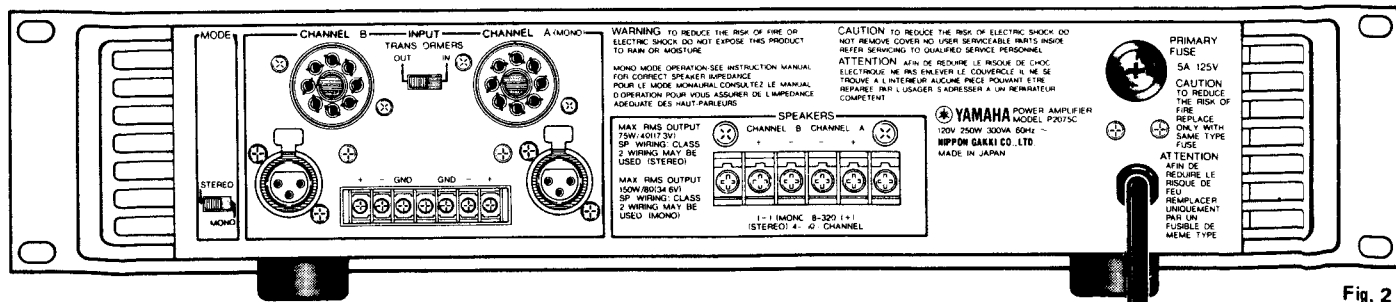
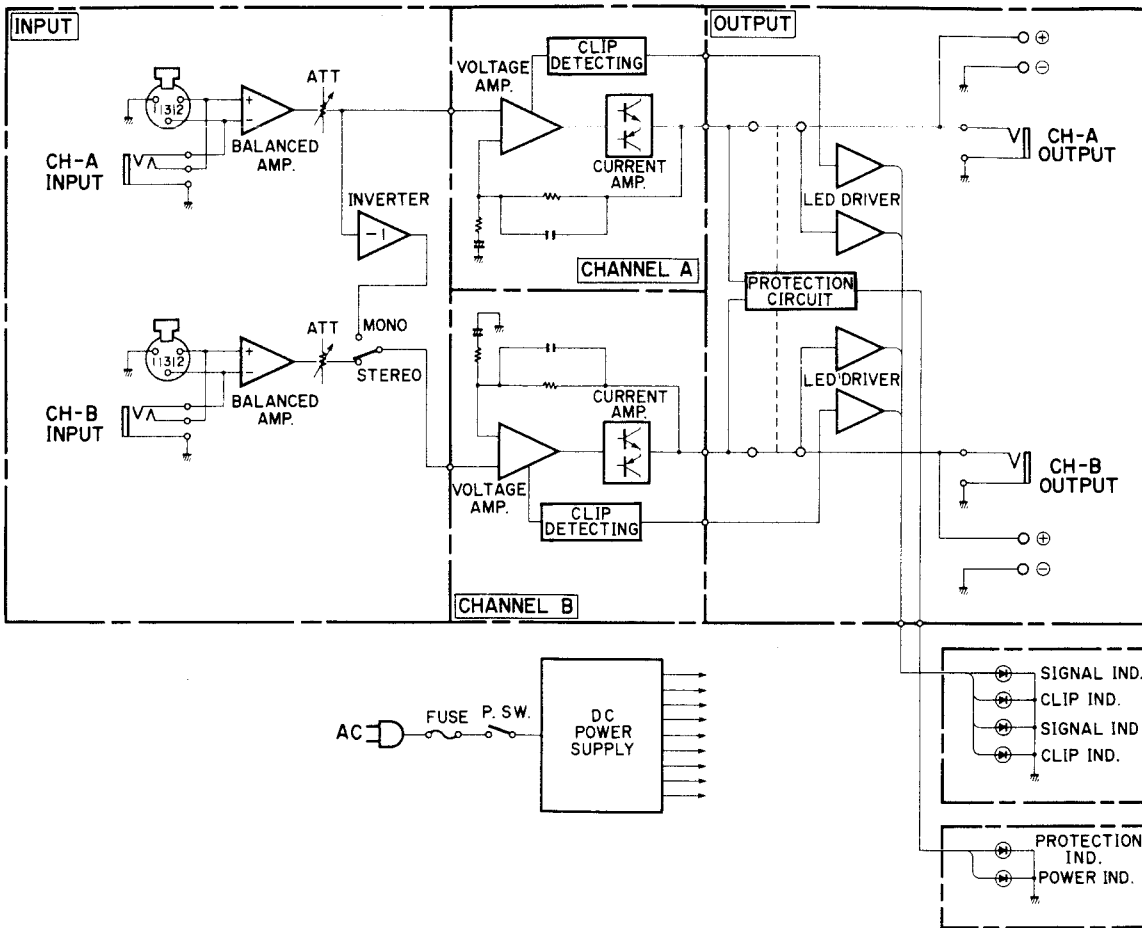


Fig. 2

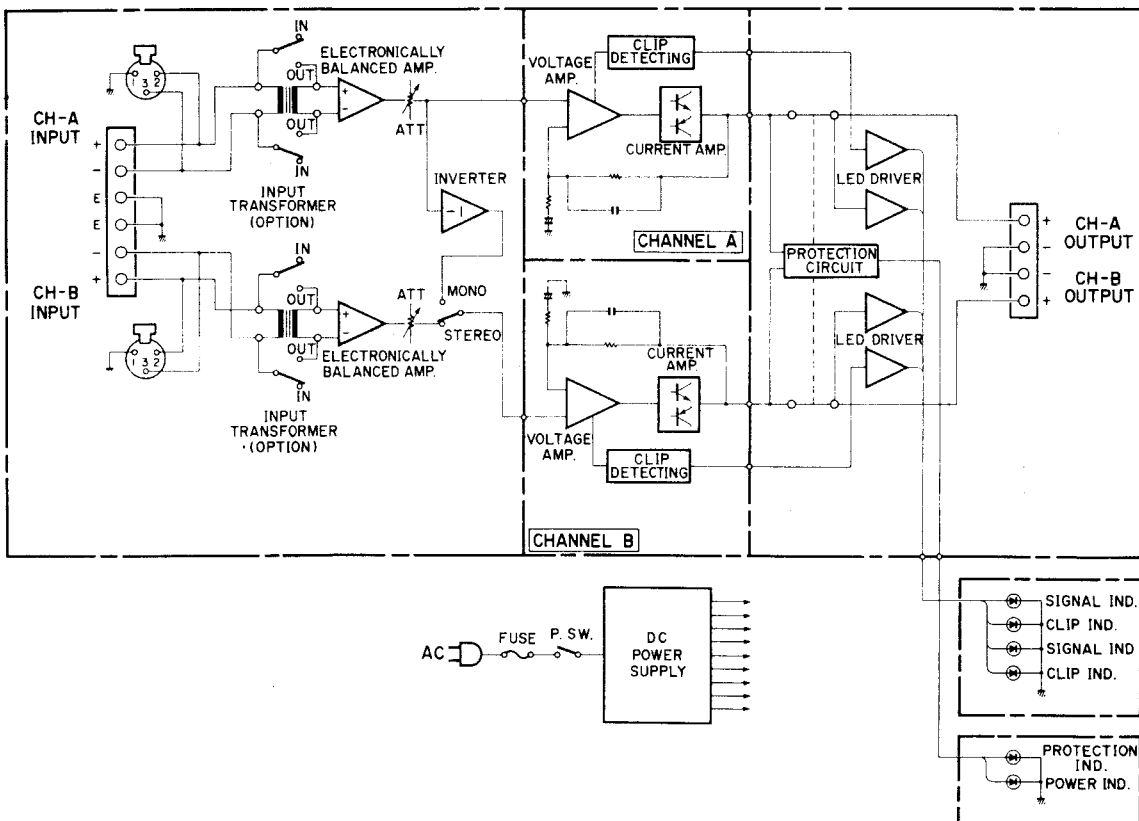
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■ BLOCK DIAGRAM

P2075

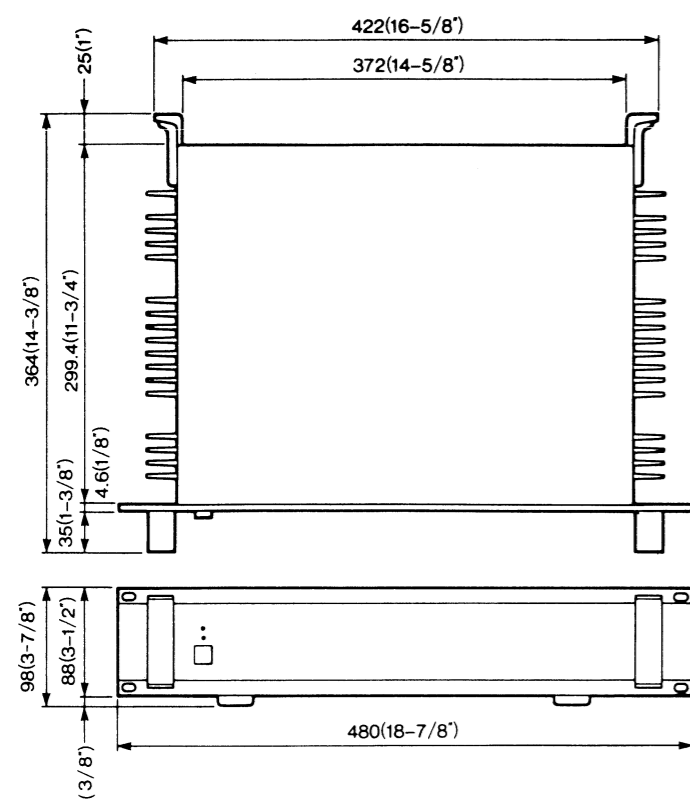


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DIMENSIONS

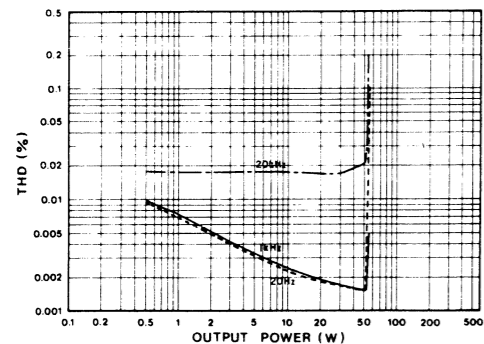


Unit: mm (Inch)

PERFORMANCE GRAPHS

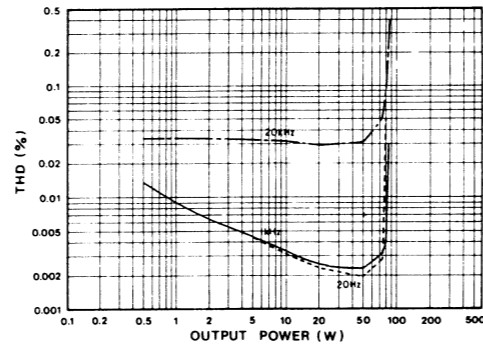
THD vs OUTPUT POWER CHARACTERISTICS

Load Impedance: 8Ω
Mode: STEREO
Both Channels Driven



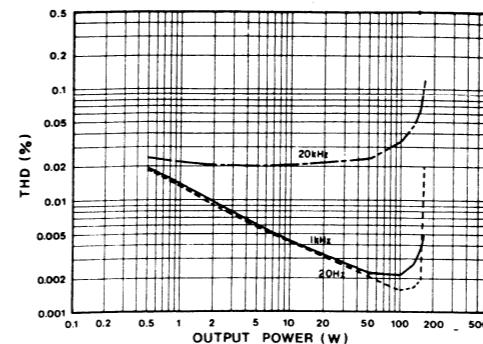
THD vs OUTPUT POWER CHARACTERISTICS

Load Impedance: 4Ω
Mode: STEREO
Both Channels Driven



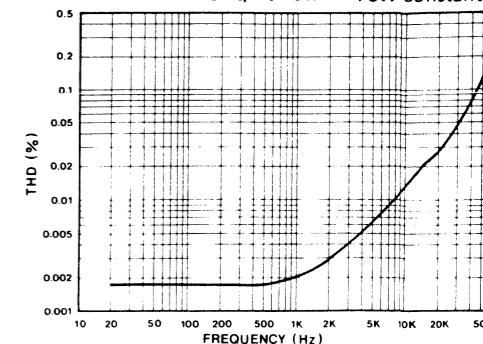
THD vs OUTPUT POWER CHARACTERISTICS

Load Impedance: 8Ω
Mode: MONO (BTL)



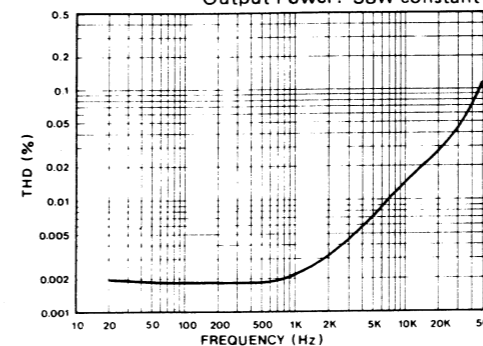
THD vs FREQUENCY CHARACTERISTICS

Load Impedance: 8Ω
Mode: MONO (BTL)
Output Power: 75W constant



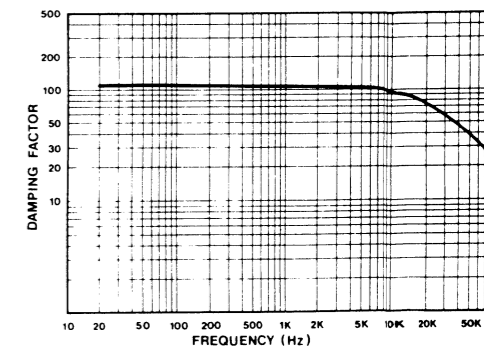
THD vs FREQUENCY CHARACTERISTICS

Load Impedance: 4Ω
Mode: STEREO
Both Channels Driven
Output Power: 38W constant



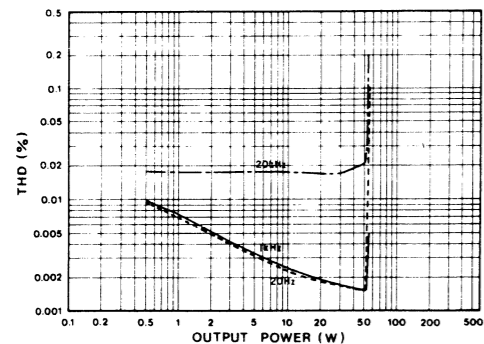
DAMPING FACTOR CHARACTERISTICS

Load Impedance: 8Ω
Mode: STEREO
Output Power: 25W constant



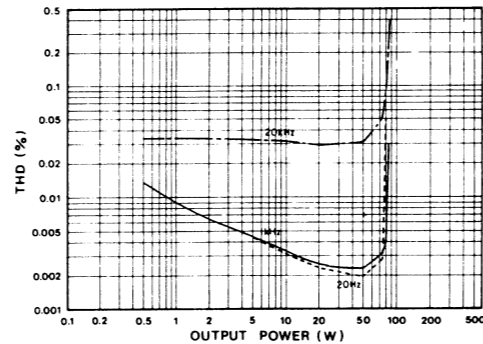
THD vs OUTPUT POWER CHARACTERISTICS

Load Impedance: 8Ω
Mode: STEREO
Both Channels Driven



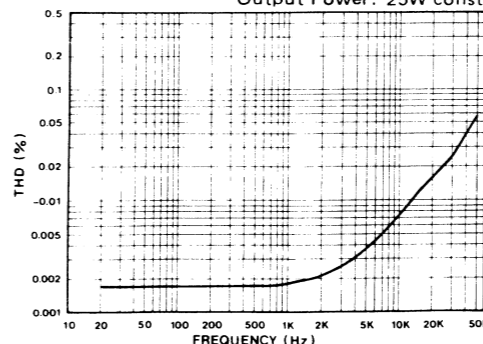
THD vs OUTPUT POWER CHARACTERISTICS

Load Impedance: 4Ω
Mode: STEREO
Both Channels Driven



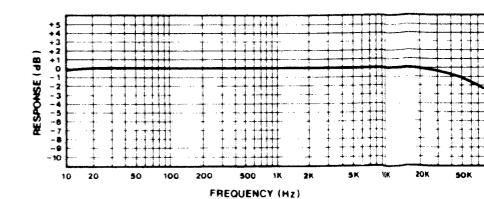
THD vs FREQUENCY CHARACTERISTICS

Load Impedance: 8Ω
Mode: STEREO
Both Channels Driven
Output Power: 25W constant

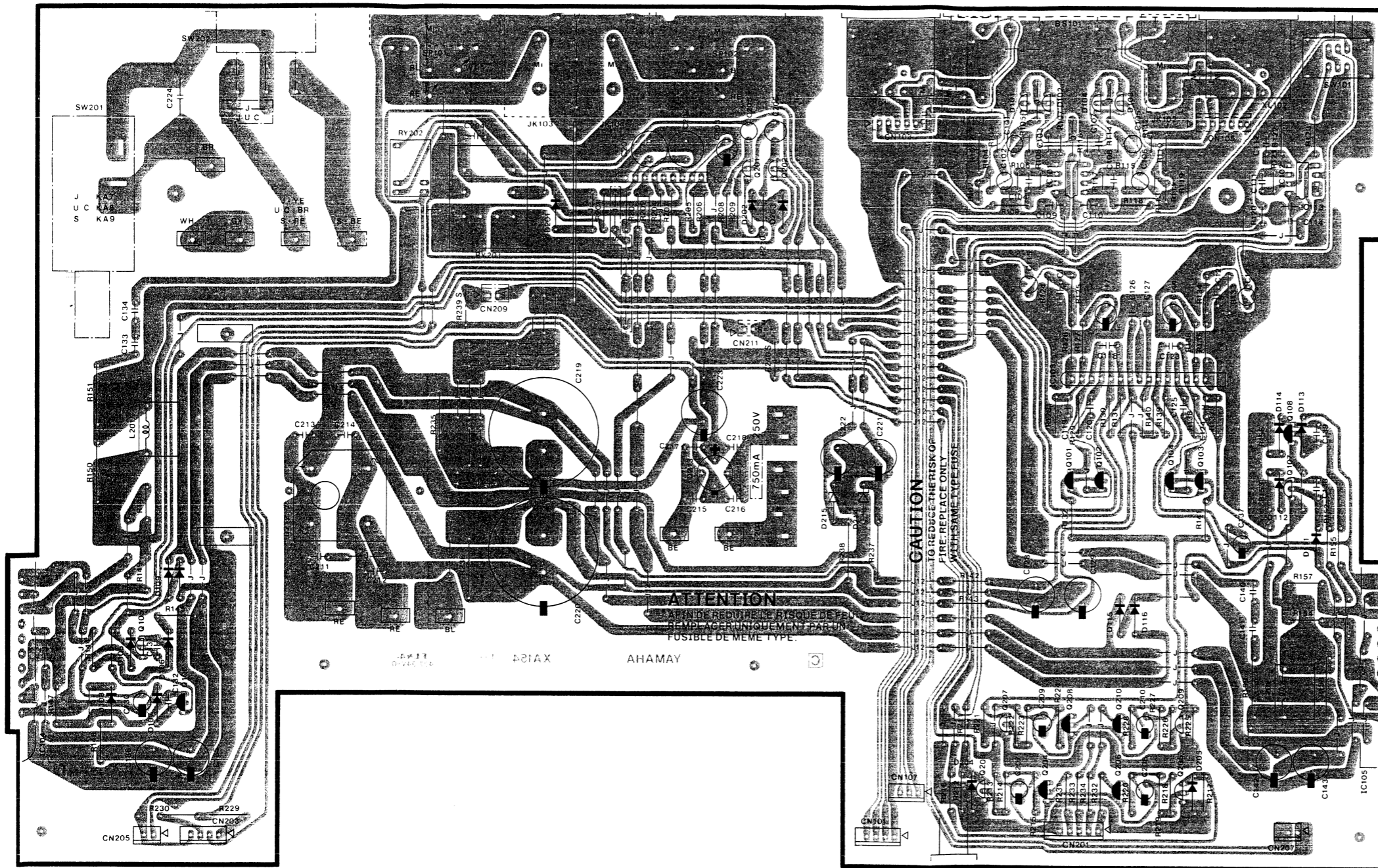


FREQUENCY RESPONSE CHARACTERISTICS

Load Impedance: 8Ω
Input Attenuators: Max
Mode: STEREO



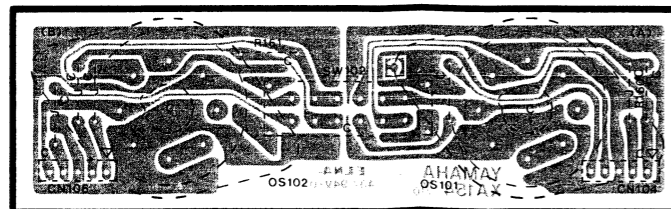
■ CIRCUIT BOARDS



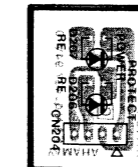
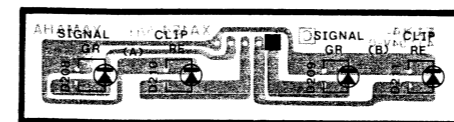
Notes)

1. Circuit Board: XA154C
2. IC
 IC101,102: NJM4560D
 IC201: TA7317P
 IC103: STK3042 III
 IC104,105: STK0100
3. Transistor
 Q102-104,106,108,
 204,206,208,210: 2SA970
 Q105,107,201-203,
 205,207,209: 2SC2240
4. Diode
 D202-205: 1S2473
 D105-108,111-114: 1SS82
 D201: 10D1
 D109,110,115,116: 1S1888
5. Zener Diode
 D214,215: 05Z15
6. Double Diode
 D101-104: MC931
7. Diode Bridge
 D213: 1G4B1
 D212: 10G4B41
8. LED
 D206,207,210,211: LN222RP
 D208,209: LN322GP
9. Coil
 L201,202: 1.5 μH

INPUT(P2075C)



LED



■PARTS LIST

DESTINATION ABBEVIATION
 J: Japan C: Canada
 U: America H: North Europe

Electrical Parts(電気部品)

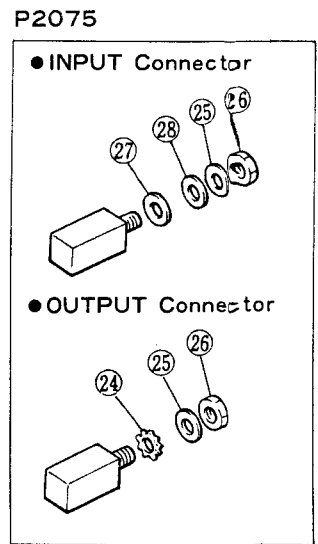
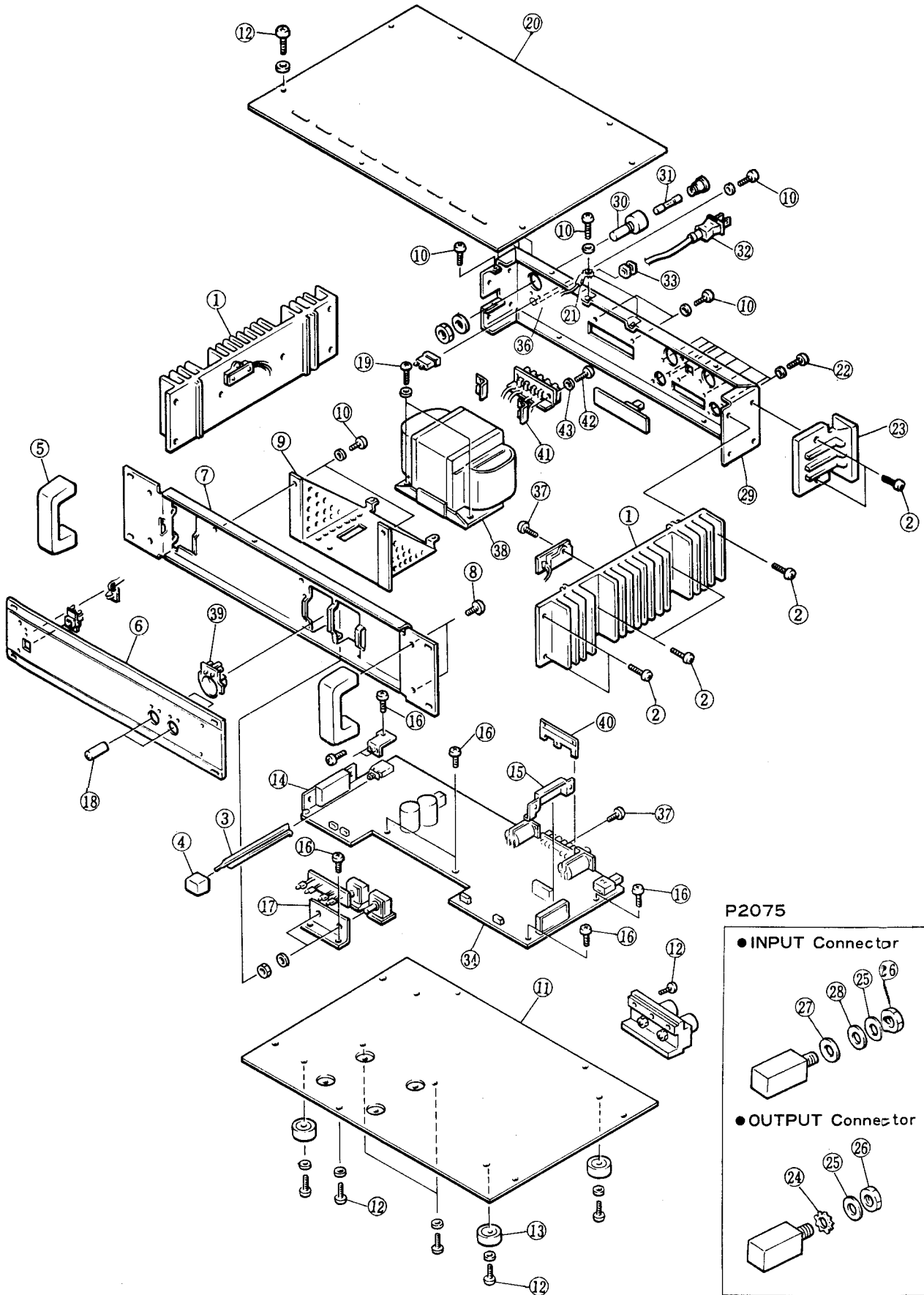
Ref	Part No	Description	部品名	Remarks	ランク
*	VA880200	MA Circuit Board	MAシート	P2075 J	
*	VA263200	MA Circuit Board	MAシート	P2075 U	
*	VA263300	MA Circuit Board	MAシート	P2075 C	
*	VA263500	MA Circuit Board	MAシート	P2075 H	
*	VA880300	MA Circuit Board	MAシート	P2075C J	
*	VA263700	MA Circuit Board	MAシート	P2075C U,C	
*	VA263900	MA Circuit Board	MAシート	P2075C H	
*	IG040000	IC	IC	OP AMP	04
*	XA229001	IC	IC	PRE DRIVE	08
*	XA230001	IC	IC	POWER AMP	12
*	IG034800	IC	IC	PROTECTION	14
*	IA097000	Transistor	2SA970(GR,BL)	トランジスタ	03
*	IC224000	Transistor	2SC2240(GR,BL)	トランジスタ	03
*	IF000670	Diode	1S2473	ダイオード	01
*	IF001400	Diode	1SS82	ダイオード	02
*	IH000030	Diode	10D1	ダイオード	01
*	IH000320	Diode	1S1888	ダイオード	01
*	IF005120	Diode Array	MC931	ダイオードアレイ	01
*	IH001400	Diode Bridge	1G4B1	ダイオードブリッジ	03
*	VA261500	Diode Bridge	10G4B41	ダイオードブリッジ	07
*	IF002780	Zener Diode	05Z15	ツェナーダイオード	01
*	IF001720	LED(Red)	LM222RP	LED	03
*	IF002180	LED(Green)	LN322GP	LED	02
*	HV355100	Flame Proof Carbon Resistor	100Ω 1/4W	不熱化カーボン抵抗	01
*	HU076100	Metal Film Resistor	1KΩ 1/4W	金属皮膜抵抗	02
*	HU077150	Metal Film Resistor	15KΩ 1/4W	金属皮膜抵抗	02
*	HU077160	Metal Film Resistor	16KΩ 1/4W	金属皮膜抵抗	02
*	HU077300	Metal Film Resistor	30KΩ 1/4W	金属皮膜抵抗	02
*	HU077510	Metal Film Resistor	51KΩ 1/4W	金属皮膜抵抗	02
*	HL314100	Metal Oxide Film Resistor	10Ω 1W	酸化金抵抗	01
*	HL316150	Metal Oxide Film Resistor	1.5KΩ 1W	酸化金抵抗	01
*	HL316880	Metal Oxide Film Resistor	6.8KΩ 1W	酸化金抵抗	01
*	HZ003950	Cement Resistor	0.33Ω 5W	セメント抵抗	02
*	VA284200	Rotary Potentiometer	トク5KΩ	ロータリーポテンチオメータ	05
*	FH223470	Ceramic Cap.	0.0047μF 500V	セラコン	01
*	VA261700	Electrolytic Cap.	10000μF 50V	ケミコン	07
*	UK147100	Electrolytic Cap.	10μF 25V	BPコン	01
*	UK347470	Electrolytic Cap.	47μF 25V	BPコン	02
*	UK166220	Electrolytic Cap.	2.2μF 50V	BPコン	01
*	UK166330	Electrolytic Cap.	3.3μF 50V	BPコン	01
*	UK166470	Electrolytic Cap.	4.7μF 50V	BPコン	01
*	VA880100	Ceramic Cap.	4700pF 400V	セラコン	01
*	GD900340	Coil	1.5μH	空芯コイル	02
*	KA401280	Slide Switch	SSP32204	スライドスイッチ	03
*	KA401710	Slide Switch	SSB042	スライドスイッチ	03
*	KA804970	Push Switch	ESB-99119R	プッシュスイッチ	J
*	KA804980	Push Switch	ESB-9933T	プッシュスイッチ	U,C
*	KA804990	Push Switch	ESB-9917S	プッシュスイッチ	H
*	KC001980	Relay	DC MZ-24HS	リレー	05
*	KC002010	Relay	DC MS24D4-0ZJ	リレー	07
*	LB302070	Phone Jack	Stereo	ホンジヤック	P2075
*	LB100500	Phone Jack	Mono	ホンジヤック	P2075 J,U,H
*	LB302320	Cannon Connector	XLB-3-3	キャノンコネクタ	
*	LB608030	Octal Socket	8P	オクタソケット	P2075C
*	KA000160	Thermal Reed Switch	QHD-70M	サーマルリレー	06
*	KA000070	Thermal Reed Switch	QHD-85M	サーマルリレー	H
*	KB000320	Fuse	T750mA 250V	ヒューズ	J
*	KB001220	Fuse	T750mA 250V	ヒューズ	U,C
*	KB000670	Fuse	T630mA 250V	ヒューズ	H
*	LA005510	Speaker Terminal	2P Left	スピーカー端子	P2075 J,H
*	LA005520	Speaker Terminal	2P Right	スピーカー端子	P2075 J,H
*	LA005530	Speaker Terminal	2P Left	スピーカー端子	P2075 U,C
*	LA005540	Speaker Terminal	2P Right	スピーカー端子	P2075 U,C
*	LA005560	Terminal,Block	M118C-76	貫通端子台	P2075C
*	LA005470	Terminal,Block	MTB94-4HB	貫通端子台	P2075C
*	VA855400	Terminal		PC用カラゲ端子	01
*	KA401230	Voltage Selector		電圧切替器	H
*	CB833530	Cover	SB-1417UL	コンテナカバー	H
*	VA981400	Insulation Sheet		絶縁シート	H
*	CB816660	Wire Clip		ワイヤクリップ	01
*	ED330166	Bind Head Screw	3×16 FCRM3-BL	ハインド小ネジ	PACK
*	EI330366	Bind Head Tapping Screw	3×6 FCRM3-BL	ハインドタッピングネジ	PACK
*	EI330146	Bind Head Tapping Screw	3×14 FCRM3-BL	ハインドタッピングネジ	PACK
*	EV103030	Hexagonal Nut	φ3 FCRM3-BL	六角ナット	01
*	LB201530	Fuse Holder		ヒューズホルダー	01
*	VA276900	Switch Angle		スイッチアングル	03
*	BA810160	Heat Sink		放熱板(D)	01
*	BB067690	Bus Bar		バスバー	01

※: New Parts (NR)

ランク: Japan only

P2075/P2075C

Overall Assembly (総組立)



Overall Assembly (総組立)

Ref	Part No	Description	部品名	Remarks	ランク
* 1	VA277000	Heat Sink	放熱板		
2	EI340120	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ		01
* 3	VA276000	Rod	ロッド		
4	CB812380	Push Button	プッシュボタン		01
5	BA803270	Handle	ハンドル		07
* 6	VA277100	Front Panel	フロントパネル	P2075	
6	VA291500	Front Panel	フロントパネル	P2075C	
* 7	VA276200	Sub Panel	サブパネル		
8	EA350120	Pan Head Screw	ナ ^ハ 小 ^ネ ジ ^ニ		01
* 9	VA276300	Angle Trans	トランスアングル		
10	EI340080	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ		01
* 11	VA275800	Bottom Cover	底板		
12	EI340100	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ		01
13	CB806590	Leg	ゴム脚		01
* 14	VA275800	Cover, IC	ICカバー		
15	VA275900	Cover, IC	ICカバー		
* 16	EI330066	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ	PACK	01
* 17	VA276400	Angle, VR	VRアングル		
18	CB812370	Knob	ツマミ	P2075	02
18	CB835670	Knob	ツマミ	P2075C	02
19	EA040080	Pan Head Screw	ナ ^ハ 小 ^ネ ジ ^ニ		01
* 20	VA276100	Top Cover	天板		
21	LA003690	Lug Terminal	ラック端子		01
22	EI330086	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ	PACK	01
* 23	VA275500	AC Cord Holder	コードリール		
24	EV410096	Toothed Lock Washer	歯付座金	P2075 PACK	01
25	LX200010	Flat Washer	特殊平座金	P2075	01
26	LX200060	Hexagonal Nut	特殊六角ナット	P2075	01
27	EK002370	Washer	ファイバーワッシャー	P2075	01
28	CB810090	Nut	絶縁ナット	P2075	01
* 29	VA976800	Rear Panel	リアパネル	P2075 J	
* 29	VA276500	Rear Panel	リアパネル	P2075 U,C	
* 29	VA276600	Rear Panel	リアパネル	P2075 H	
* 29	VA976900	Rear Panel	リアパネル	P2075C J	10
* 29	VA276700	Rear Panel	リアパネル	P2075C U,C	
* 29	VA206800	Rear Panel	リアパネル	P2075C H	
30	LB200490	Fuse Holder	ヒューズホルダー	J, U,C	04
30	LB200590	Fuse Holder	ヒューズホルダー	H	
31	KB001280	Fuse	ヒューズ	J	02
31	KB001420	Fuse	ヒューズ	U,C	
31	KB000690	Fuse	ヒューズ	H	
32	MG000610	AC Cord	電源コード	J	06
32	MG000530	AC Cord	電源コード	U,C	
32	MG001130	AC Cord	電源コード	H	
33	CB806850	Cord Stopper	コードストッパー	J, U,C	02
* 33	CB328400	Cord Stopper	コードストッパー	H	
* 34	VA880200	MA Circuit Board	MAシート	P2075 J	
* 34	VA263200	MA Circuit Board	MAシート	P2075 U	
* 34	VA263300	MA Circuit Board	MAシート	P2075 C	
* 34	VA263500	MA Circuit Board	MAシート	P2075 H	
* 34	VA880300	MA Circuit Board	MAシート	P2075C J	
* 34	VA263700	MA Circuit Board	MAシート	P2075C U,C	
* 34	VA263900	MA Circuit Board	MAシート	P2075C H	
35	LB201540	Phone Jack	ホンジヤック	P2075 C	
36	CB068880	Plastic Rivet	プラスチックリベット	H	
37	EI330106	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ	PACK	01
* 38	GA841100	Power Transformer	電源トランス	J	18
* 38	GA841200	Power Transformer	電源トランス	U,C	
* 38	GA841300	Power Transformer	電源トランス	H	
39	CB836210	Cover, Knob	ノブカバー	P2075C	02
40	AA833430	Angle	BSカバー(小)	P2075C	02
41	AA832860	Angle	BSカバー(大)	P2075C	01
42	EI330120	Bind Head Tapping Screw	ハ ^ン イント ^タ ッピ ^ン ク ^ネ ジ ^ニ	P2075C	01
43	EV203030	Flat Washer	平座金	P2075C	01

*: New Parts (NR)

ランク: Japan only

P2075/P2075C

A

B

C

D

E

F

1

2

3

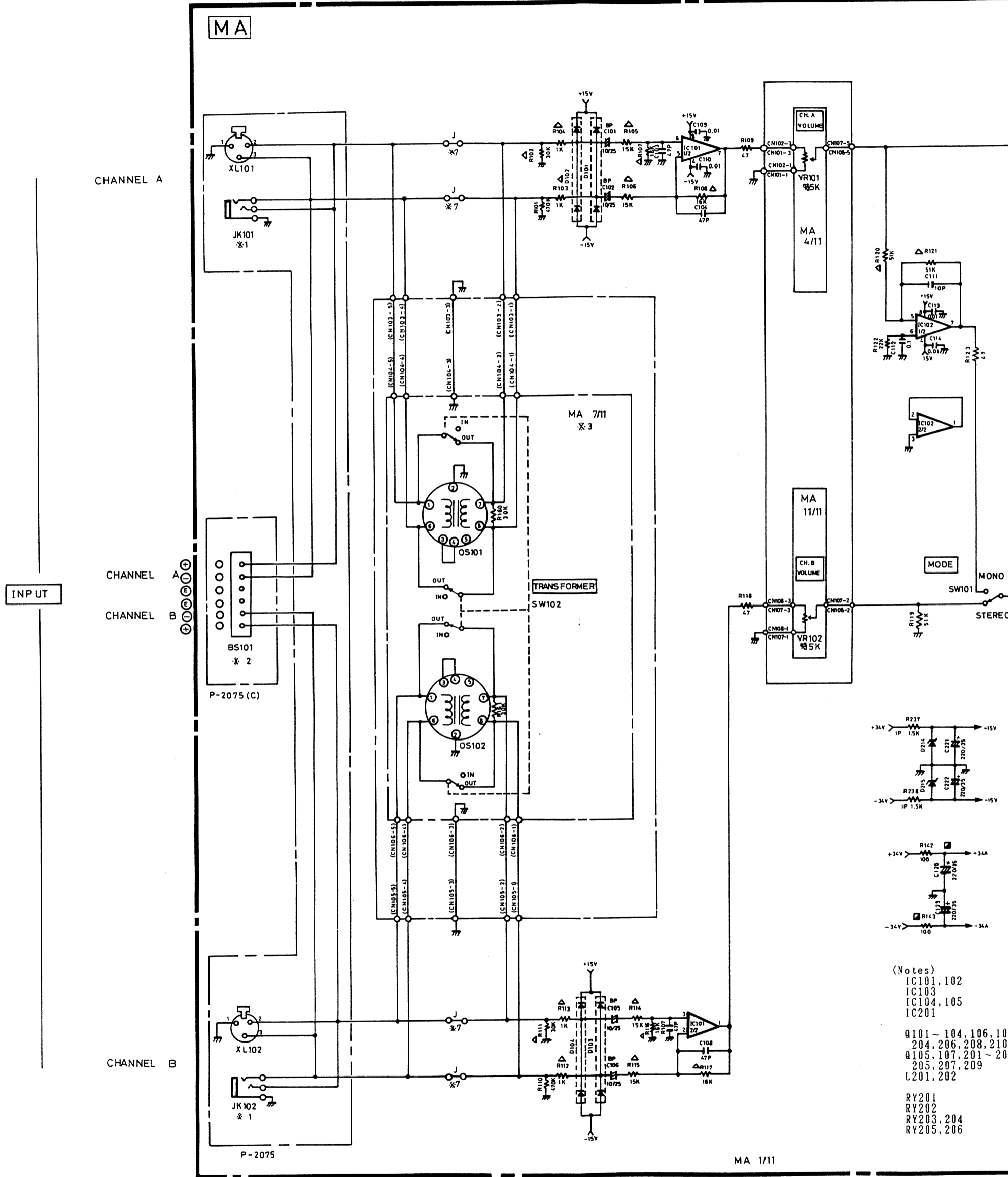
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6

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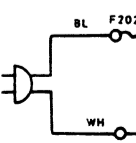
(Notes)

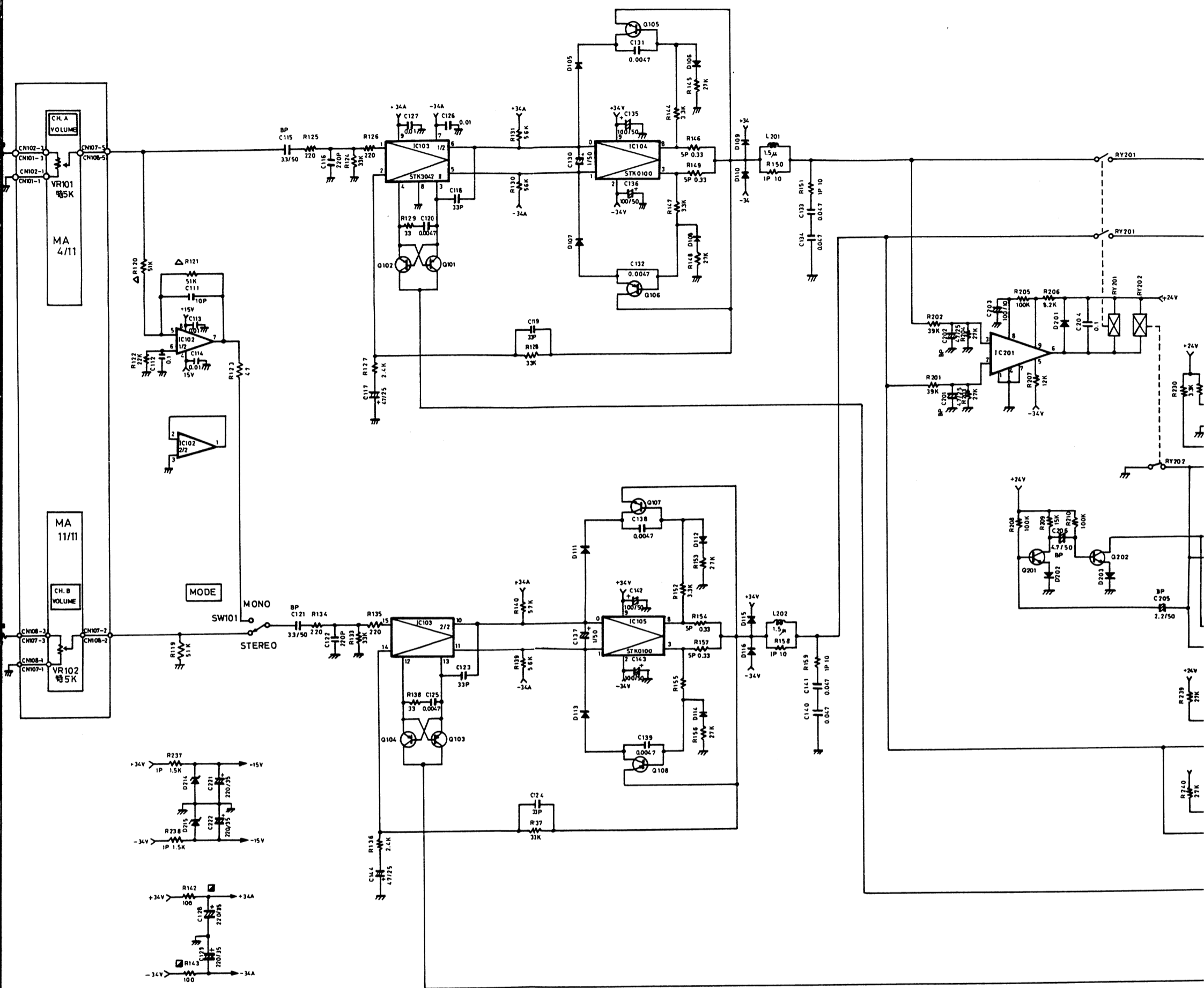
- IC101, 102
- IC103
- IC104, 105
- IC201
- Q101 ~ 104, 106, 108, 204, 206, 208, 210
- Q105, 107, 201 ~ 203, 205, 207, 209
- L201, 202
- RY201
- RY202
- RY203, 204
- RY205, 206

	*1 JK101,102	*2 BS101	*3 MA 7/11	*4 JK103,104	*5 SP101,102	*6 MA 8/11	*7 JUMPER
P2075	SET	NONSET	NONSET	SET	SET	NONSET	SHORT
P2075C	NONSET	SET	SET	NONSET	NONSET	SET	OPEN

	J	U. C	E
F201	0.75A 250V	750mA 250V	T630mA 250V
F202	6A 250V	5A 125V	T2.5A 250V
MA 2/10,6/10	NONSET	NONSET	SET

JAPANESE MODEL



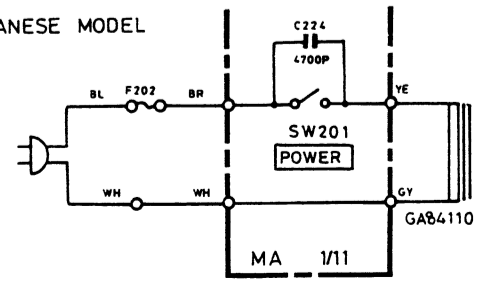


(Notes)

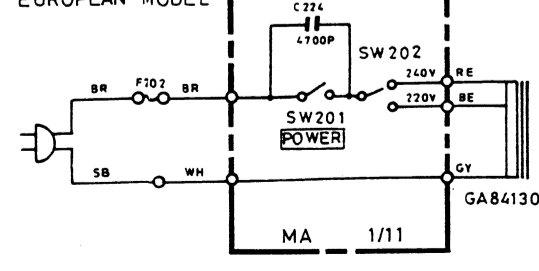
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|----------------------|------------------------|-----------------------|---------|
| IC101, 102 | NJM4560ED (iG040000) | D101 - 104 | MC931 |
| IC103 | STK3042 III (XA229001) | D105 - 108, 111 - 114 | 1SS82 |
| IC104, 105 | STK0100 (XA230001) | D109, 110, 115, 116 | 1S1888 |
| IC201 | TA7317P (iG034800) | D201 | 10D1 |
| Q101 - 104, 106, 108 | 2SA970 (GR, BL) | D202 - 205 | 1S2473 |
| Q105, 107, 201 - 203 | 2SC2240 (GR, BL) | D206, 207, 210, 211 | LN222RP |
| Q108 | Coil 1.5μH | D208, 209 | LN322GP |
| L201, 202 | | D212 | 10G4B41 |
| RY201 | MS24D4 | D213 | 1G4B41 |
| RY202 | MZ24 | D214, 215 | 05Z15 |
| RY203, 204 | OHD-70M | | |
| RY205, 206 | OHD-85M | | |
- RESISTOR
 NO MARK CARBON FILM
 △ MARK METAL FILM
 ▲ MARK FLAME PROOF CARBON

J. C	E
m A 250V	T630mA 250V
A 125V	T2.5A 250V
ONSET	SET

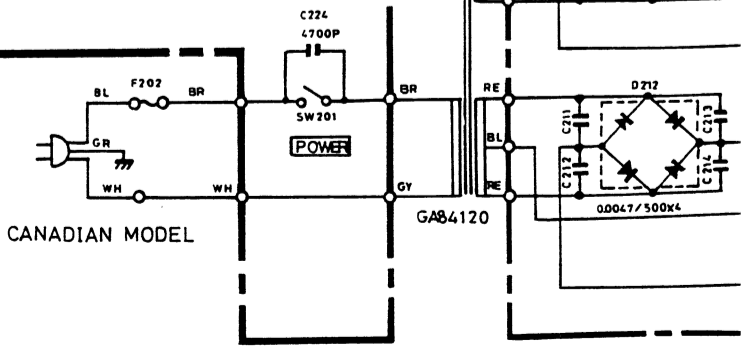
JAPANESE MODEL

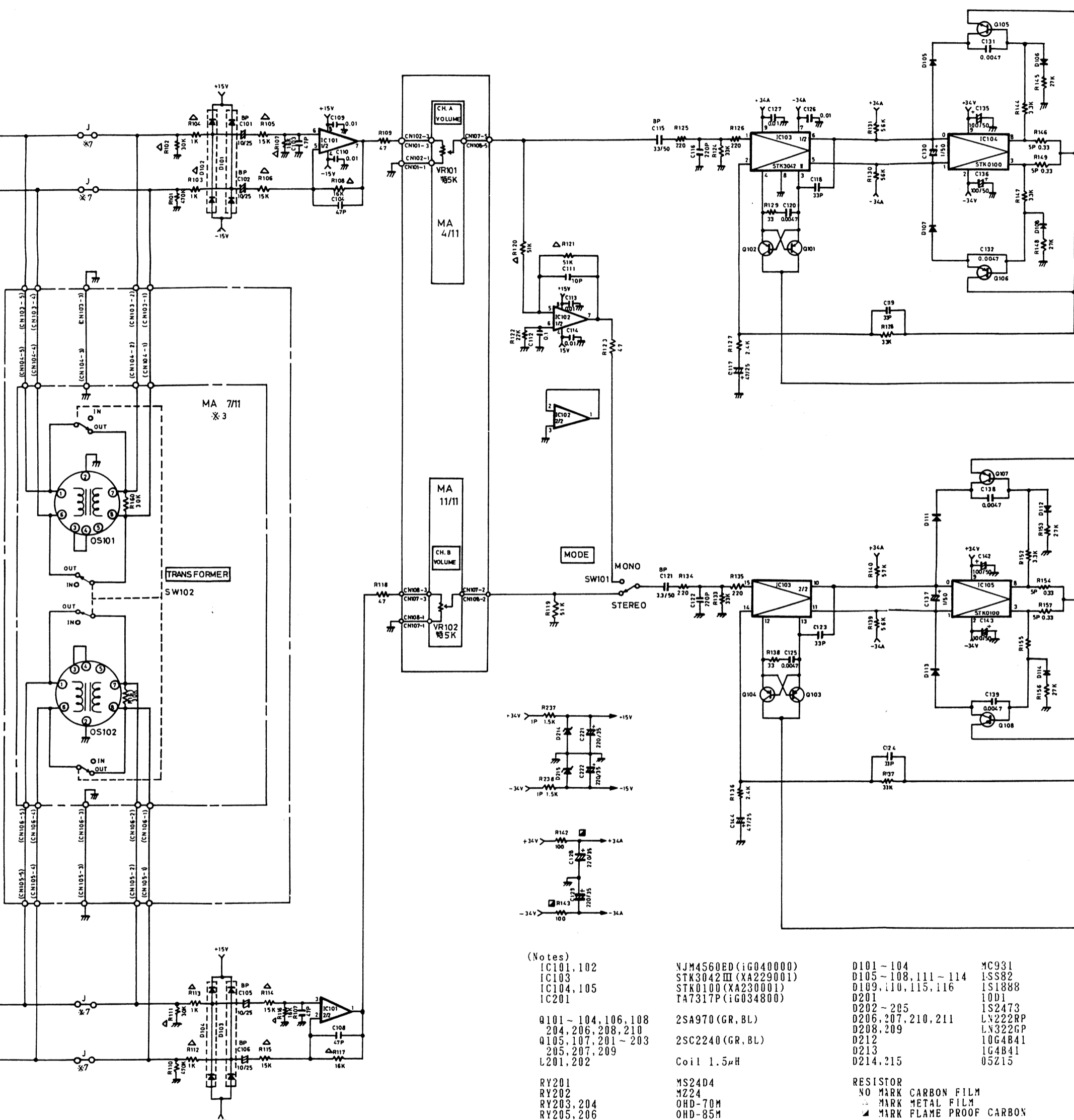


EUROPEAN MODEL



U.S.A & CANADIAN MODEL



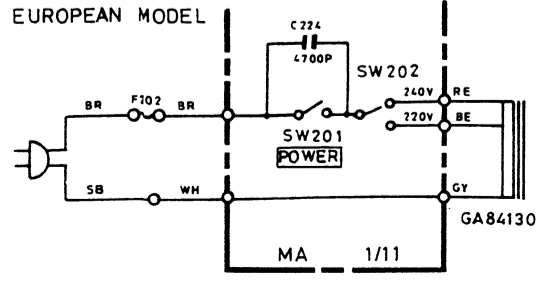
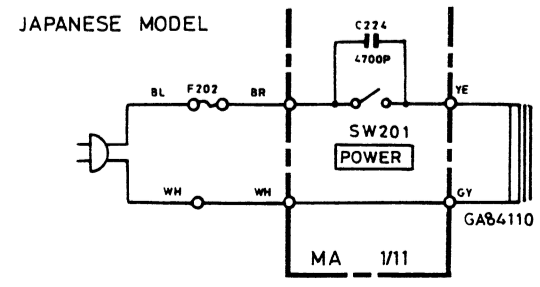


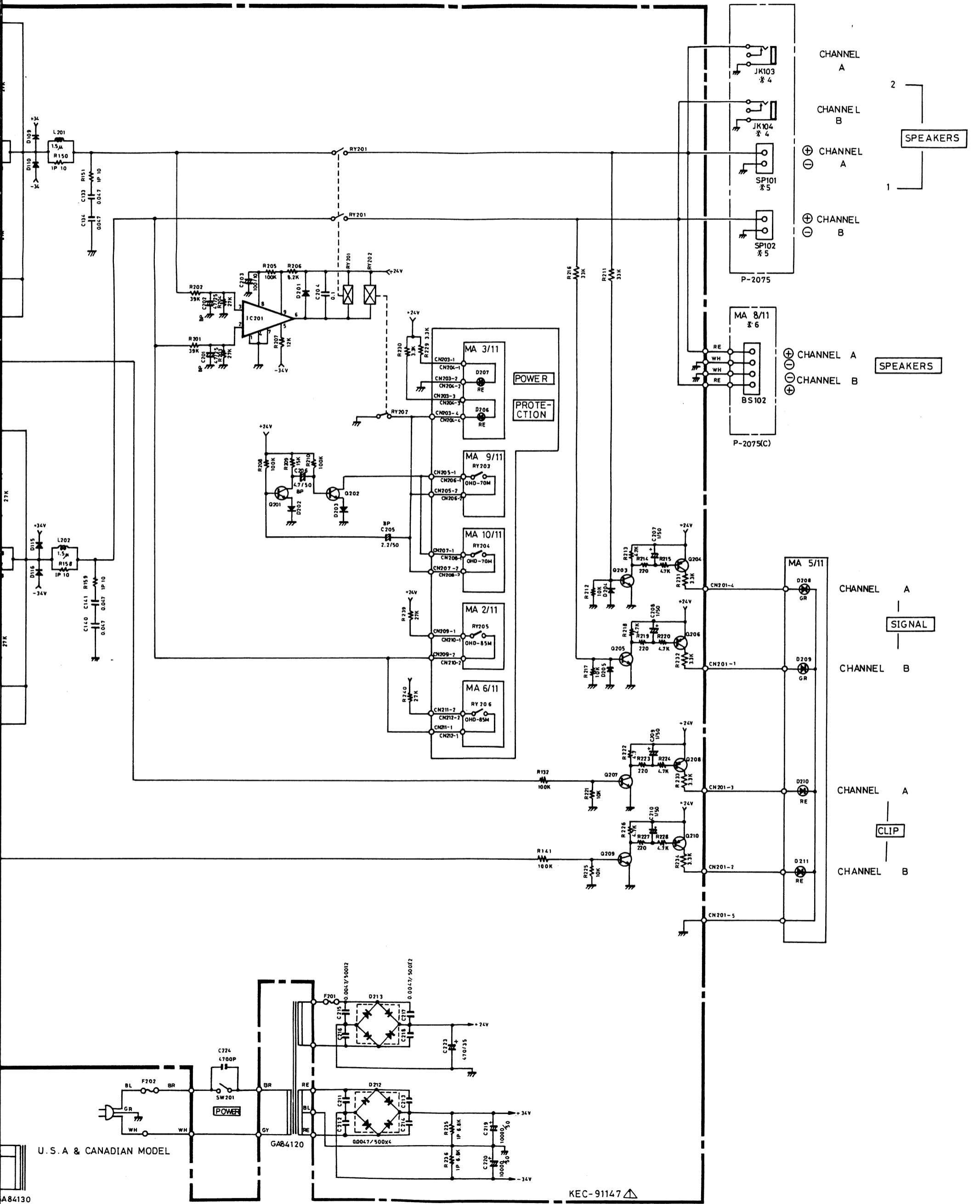
- (Notes)
- IC101, 102 NJM4560ED (iG040000)
 - IC103 STK3042III (XA229001)
 - IC104, 105 STK0100 (XA230001)
 - IC201 TA7317P (iG034800)
 - Q101 ~ 104, 106, 108 2SA970 (GR, BL)
 - 204, 206, 208, 210 2SC2240 (GR, BL)
 - Q105, 107, 201 ~ 203 Coil 1.5μH
 - 205, 207, 209
 - L201, 202
 - RY201 MS24D4
 - RY202 MZ24
 - RY203, 204 OHD-70M
 - RY205, 206 OHD-85M
 - D101 ~ 104 MC931
 - D105 ~ 108, 111 ~ 114 1SS82
 - D109, 110, 115, 116 1S1888
 - D201 10D1
 - D202 ~ 205 1S2473
 - D206, 207, 210, 211 L4222RP
 - D208, 209 L4322GP
 - D212 10G4B41
 - D213 1G4B41
 - D214, 215 05215
- RESISTOR
 NO MARK CARBON FILM
 MARK METAL FILM
 MARK FLAME PROOF CARBON

MA 1/11

*5 SP101, 102	*6 MA 8/11	*7 JUMPER
SET	NONSET	SHORT
NONSET	SET	OPEN

	J	U. C	E
F 201	0.75A 250V	750mA 250V	T630mA 250V
F 202	6A 250V	5A 125V	T2.5A 250V
MA 2/10, 6/10	NONSET	NONSET	SET





U. S. A & CANADIAN MODEL

GAB4120

KEC-91147