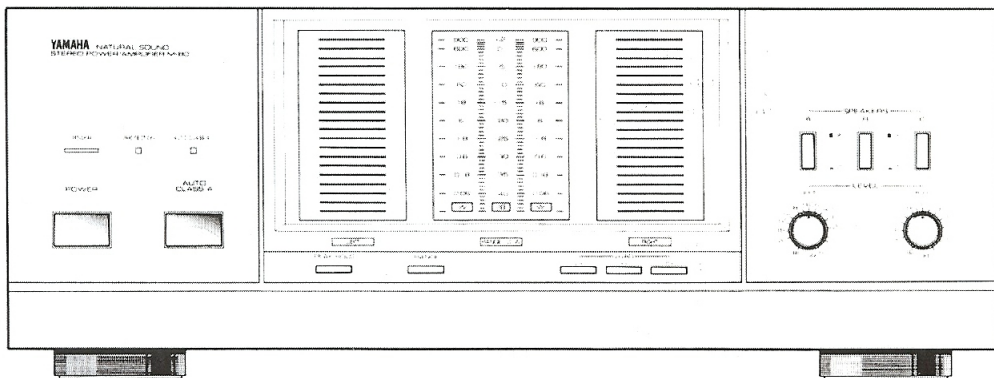


STEREO POWER AMPLIFIER M-80

SERVICE MANUAL



TO SERVICE PERSONNEL

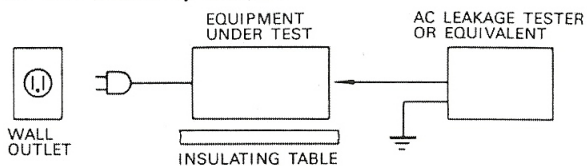
1. Critical Components Information.

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

2. Leakage Current Measurement (For 120V Model Only).

When service has been completed, it is imperative that you verify that all exposed conductive surfaces are properly insulated from supply circuits.

- Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μ F.
- Leakage current must not exceed 0.5mA.
- Be sure to test for leakage with AC plug in both polarities.

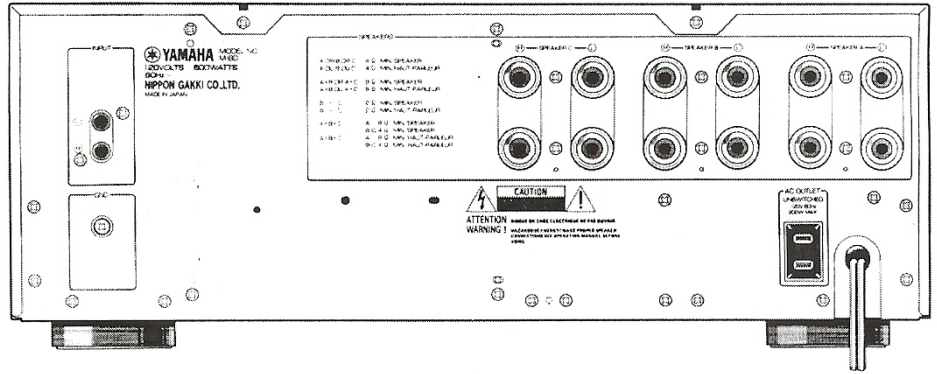


CONTENTS

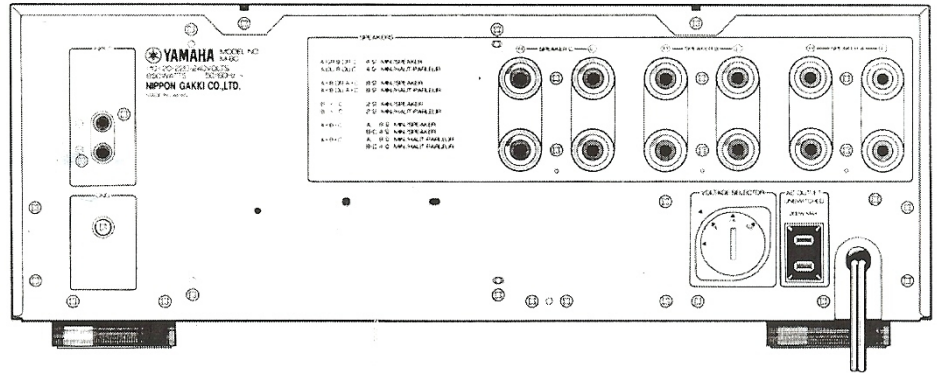
REAR PANEL	1	P.C. BOARD ~ POWER SUPPLY	7
BLOCK DIAGRAM	2	SCHEMATIC DIAGRAM ~ MAIN	8
SPECIFICATIONS	2	SCHEMATIC DIAGRAM ~ METER	9
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ADJUSTMENTS	4	EXPLODED VIEW ~ MECHANISM/CHASSIS	14
P.C. BOARD ~ METER	5	PARTS LIST ~ MECHANISM/CHASSIS	16
P.C. BOARD ~ MAIN	6		

REAR PANEL

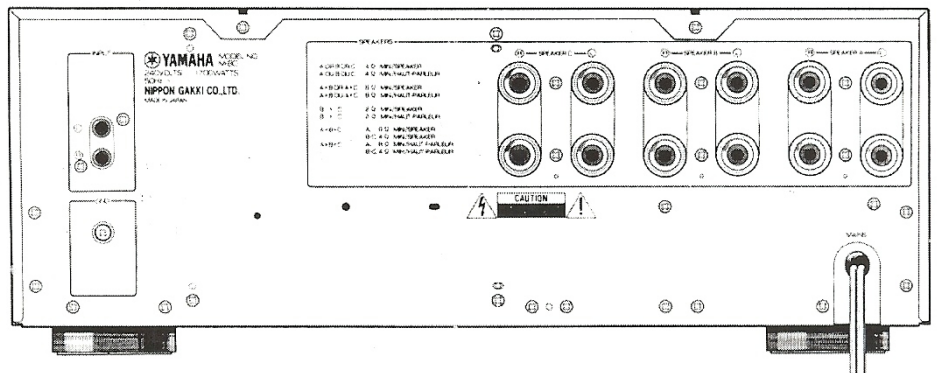
U.S.A. and Canadian Models



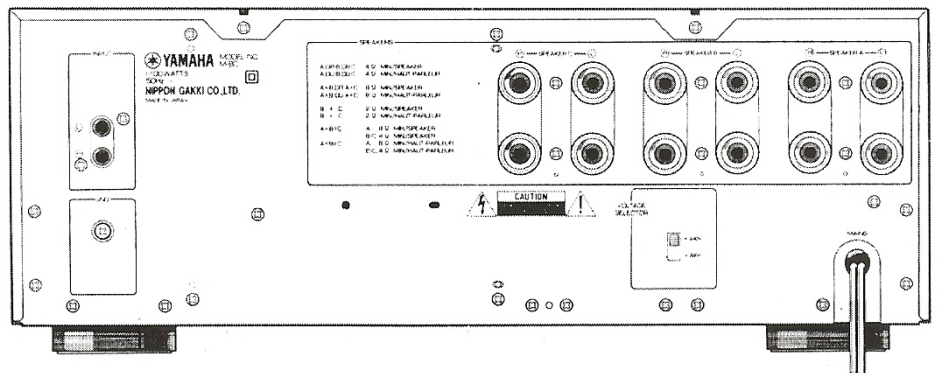
General Model



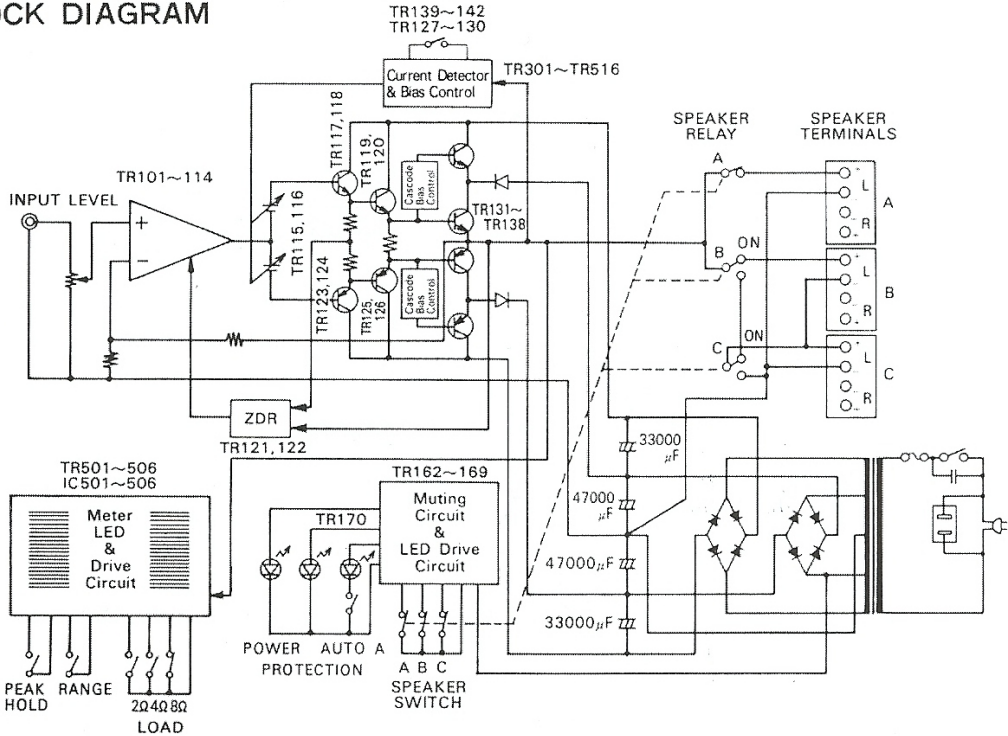
Australian Model



European Model



■ BLOCK DIAGRAM

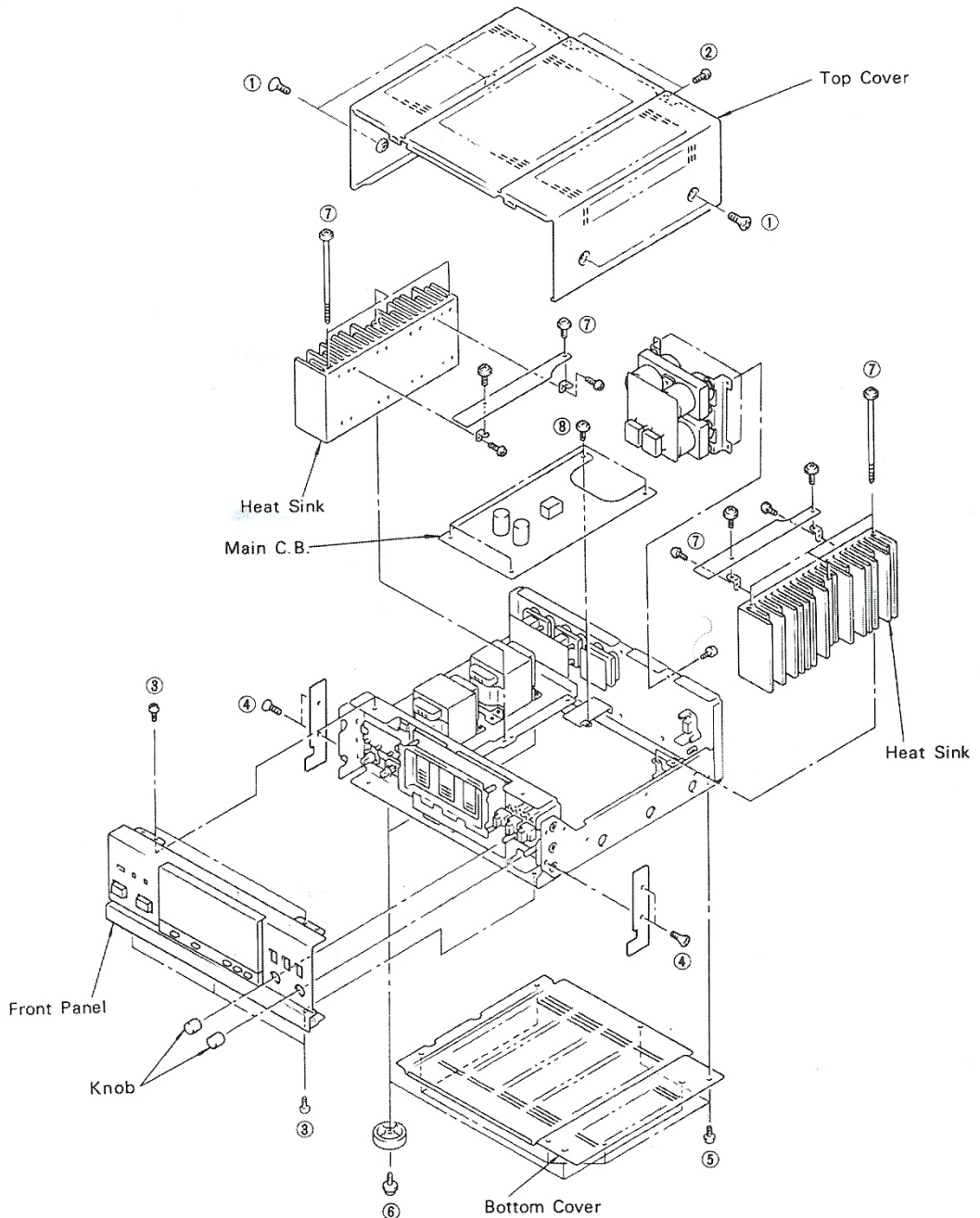


■ SPECIFICATIONS

Continuous Power Per Channel
 20Hz~20KHz
 (0.003% THD 8Ω).....250W
 (class A 30W)
 (0.007% THD 6Ω).....290W
 (0.02% THD 4Ω).....330W(U.C), 340W(R.A.E)
 Dynamic Power
 1KHz 8Ω/6Ω/4Ω/2Ω.....380W/480W/640W/850W
 DIN Standard Output Power Per Channel
 1KHz 1%/10% THD 4Ω.....450W/500W
 IEC Power
 0.01% 1KHz 8Ω/6Ω/4Ω.....265W/350W/440W
 Total Harmonic Distortion
 Main in to Sp out 125W/8Ω.....0.002%
 Power Band Width
 0.03% THD 125W(8Ω).....10Hz~100KHz
 Damping Factor
 Speaker A 1KHz 8Ω.....250
 Input Sensitivity/Impedance
 1.55V/20kΩ
 Frequency Response
 20Hz~20KHz.....+0, -0.1dB
 Intermodulation Distortion
 8Ω.....0.003%
 Signal to Noise Ratio (IHF-A-Network)
 (Shorted /5.1kΩ).....127dB/119dB

Residual Noise (IHF-A-Network).....16µV
 Channel Separation (Input Shorted)
 40Hz.....106dB
 1 KHz.....89dB
 10KHz.....76dB
 Power Supply
 AC120V·60Hz(U.C)
 AC110/120V, 220/240V·50/60Hz(R)
 AC220/240V·50Hz(E)
 AC240V·50Hz(A)
 Power Consumption
 600W(U), 1100W·1300VA(C), 850W(R),
 1700W(A.E)
 AC Output (R.U.C)
 200W max
 Dimensions
 (W×H×D).....435×165×425mm(7-1/8"×6-1/2"×16-3/4")
 Weight
 23k (50lbs·10oz)
 Specifications subject to change without notice
 U : USA Model
 C : Canadian Model
 R : General Model
 A : Australian Model
 E : European Model

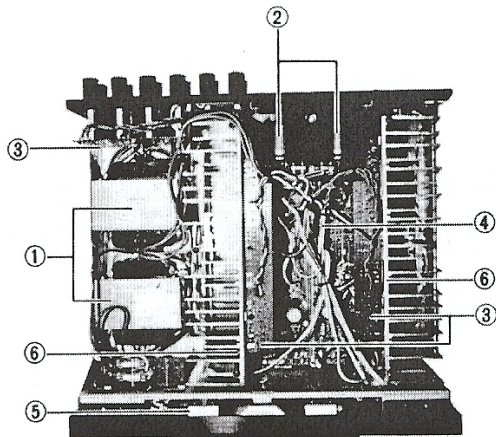
DISASSEMBLY PROCEDURE



Remove parts in the following order.

1. Remove the top cover by removing screws ① (×4) and screws ② (×2).
2. Remove the front panel by removing screws ③ (×5).
3. Remove the bottom cover by removing screws ⑤ (×6) and screws ⑥ (×4).
4. Remove the heat sink by removing screws ⑦ (×6).
5. Remove the main circuit board by removing screws ⑧ (×4).

INTERNAL VIEW



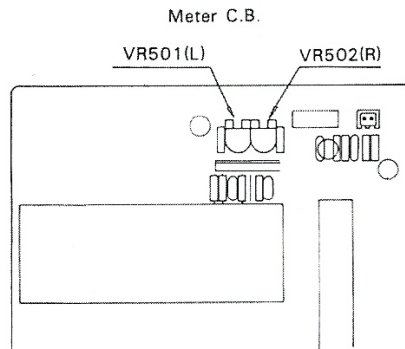
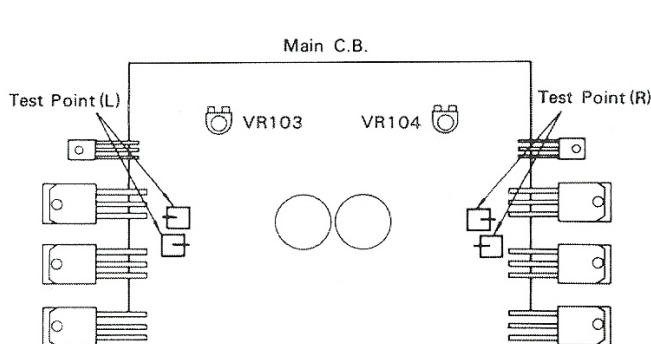
- ① Power Transformer
- ② Electrolytic Cap
- ③ Power Supply P.C.B.
- ④ Main P.C.B.
- ⑤ Meter P.C.B.
- ⑥ Heat Sink

ADJUSTMENTS

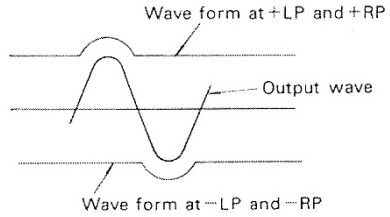
Before Adjustments

- Wait 2 minutes after power-on to stabilize amplifier operation without signal.
- Make sure that the main volume is minimum and set Auto-A switch to OFF.

Step	Adjustments	Location	Test Equipment	Test point	Value
1	Idling adjustment	VR103(L-ch.) VR104(R-ch.)	D.C. V-meter Digital tester	Across emitter resistor(0.22Ω) of power transistor. R153,R155(L-ch.) R154,R156(R-ch.)	10.0±1mV
2	Auto-A operation confirmation	Check that the voltage at each test point stated above increases when Auto-A switch is turned on.			130±13mV
3	Meter Level adjustment	VR501(L-ch.) VR502(R-ch.)	(1) Set the load level of the meter at 2Ω position. (2) Adjust VR501 and VR502 so that 0dB of the meter lights up when the output is f=1KHz and V=34.5V with NO LOAD.		



- Confirmation of the voltage switching operation.
 Terminals output : $f=1\text{KHz}$ 100W (load is 8Ω).
 Check that the wave form at $\pm\text{LP}$ and $\pm\text{RP}$ terminals changes as shown right.



A

B

C

D

■ PRINTED CIRCUIT BOARD PATTERN SIDE ~ METER CIRCUIT BOARD

1

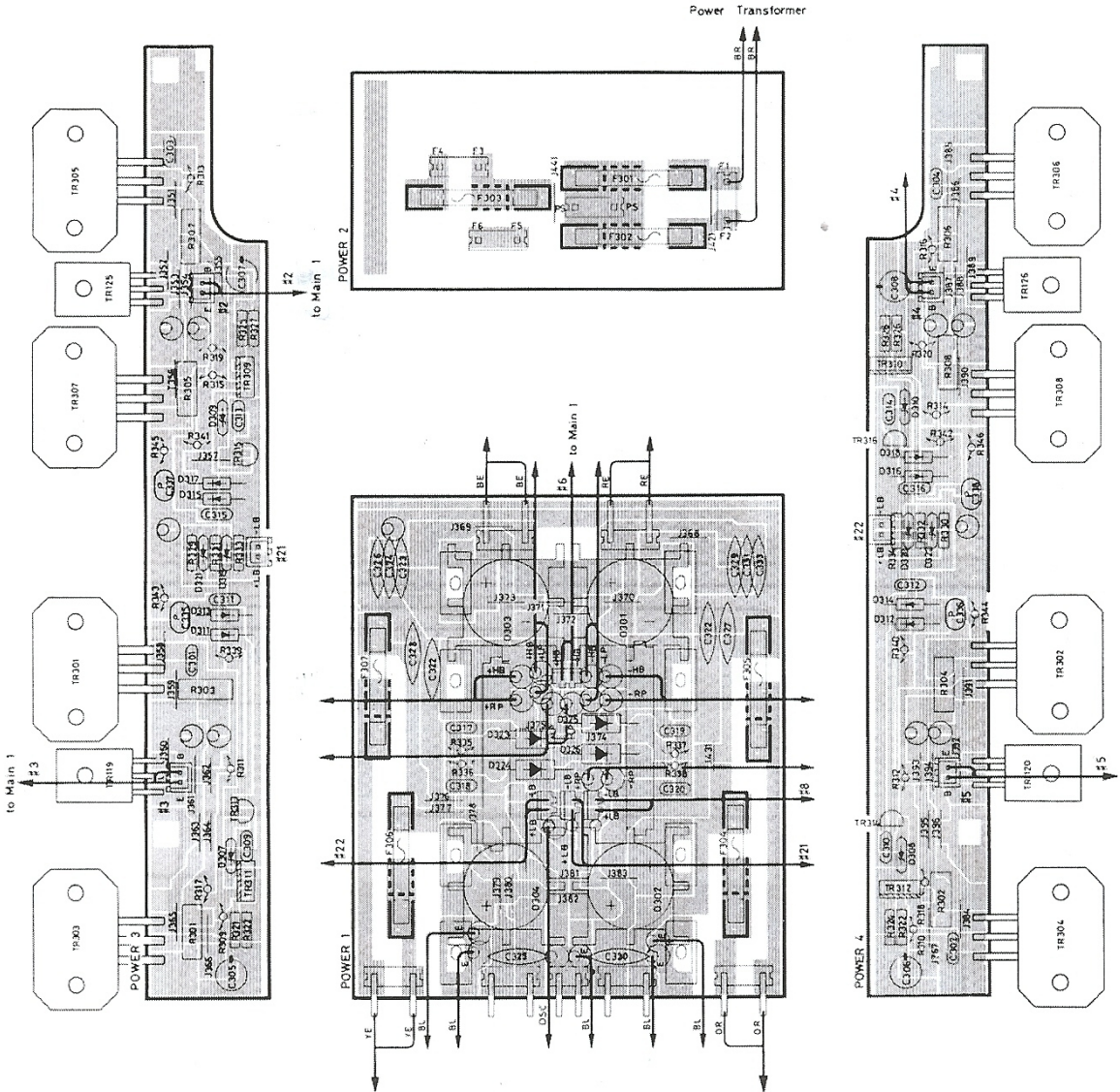
2

3

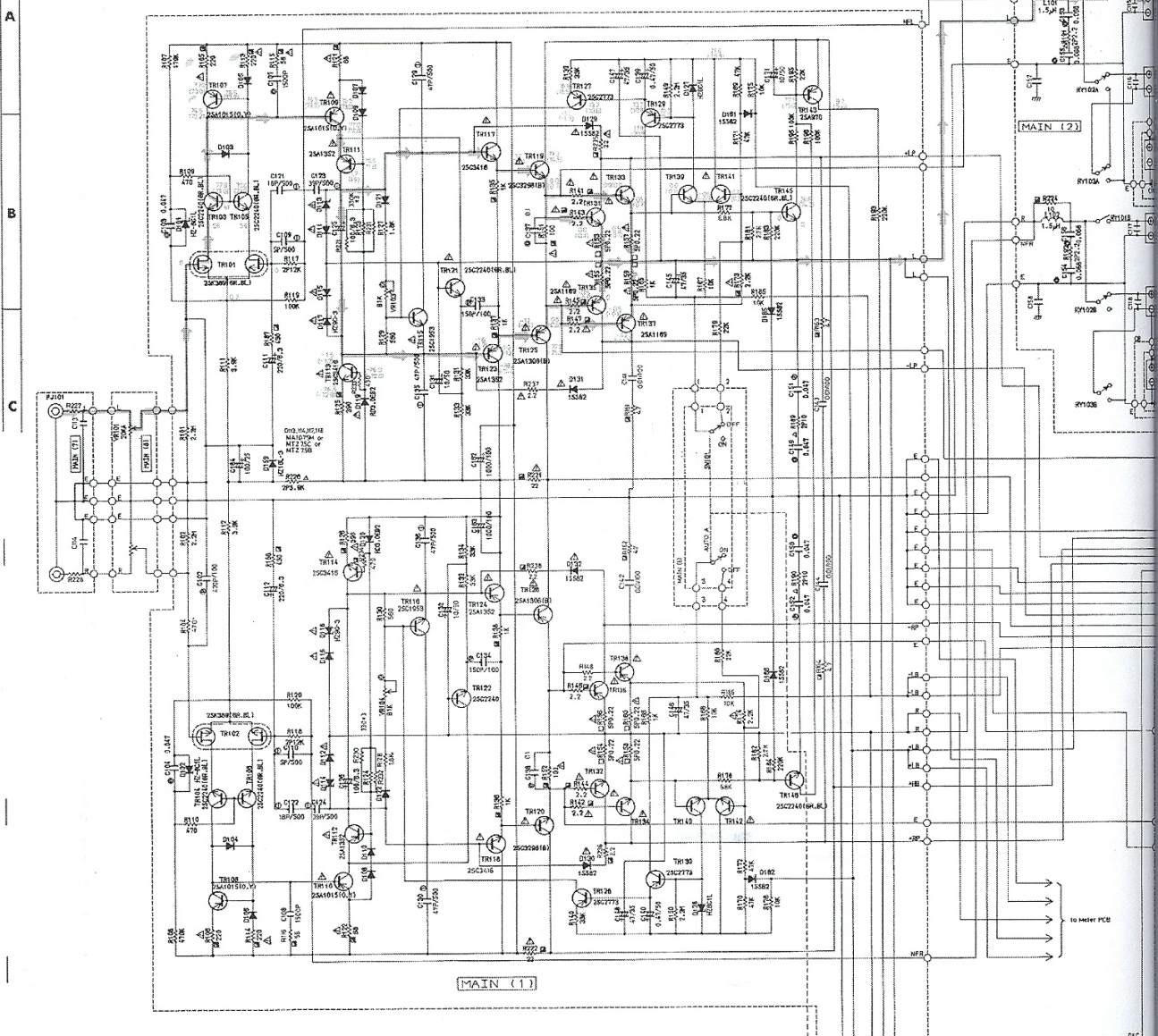
4

5

6

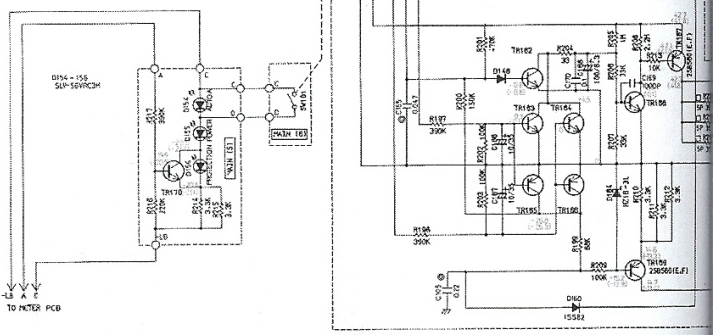


■ 総合回路図 (SCHEMATIC DIAGRAM ~ MAIN)

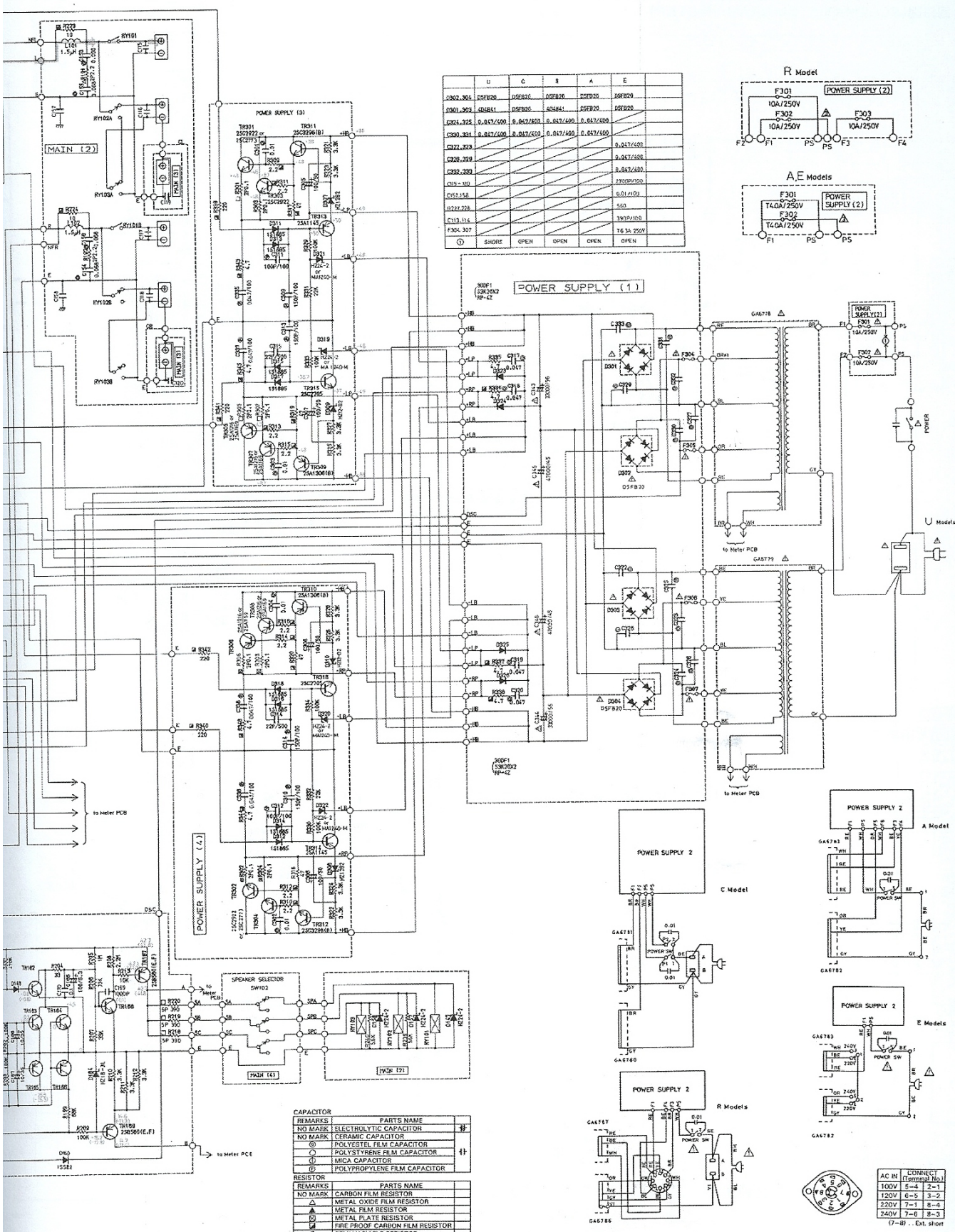


Auto A ON/OFF
SP SW ON/OFF

2SA1070 2SA1015 2SA1127 2SB1815 2SC2240 2SC2634	2SC2581 2SA1265 2SC3182	2SA1116 2SC2603	2SA1308 2SC338 2SD1273
2SA1146 2SC2705	2SB650	2SC1953 2SC3298	2SK389
1S1555 1S1185 1S2473 1SS82 HZ-GC11 HZ16-3L HZ25-2 HX3-RES2 ANODE 30DF RP42	SLV-31VC5	DSF820	

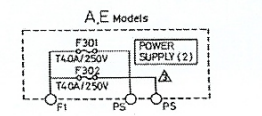
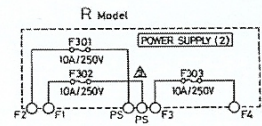


- WARNING
- Components having special characteristics are Marked and must be replaced with parts having specifications equal to those originally installed.
- All voltage are measured with a 10M Ω /V DC electric volt meter.
 - Schematic diagram is subject to change without notice.

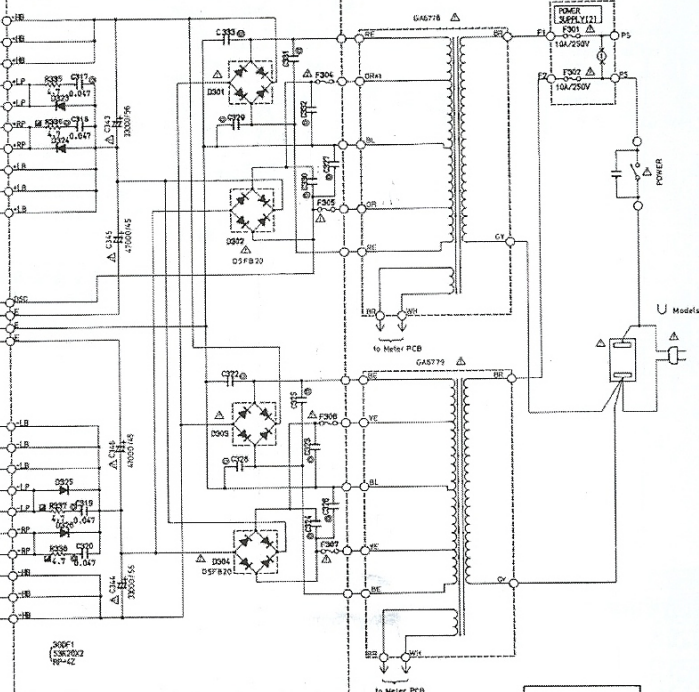


U	C	R	A	E
C302-301	05F820	05F820	05F820	05F820
C301-303	02A841	05F820	40A841	05F820
C304-315	0.047/500	0.047/500	0.047/500	0.047/500
C300-310	0.047/500	0.047/500	0.047/500	0.047/500
C327-328			0.047/500	
C329-329			0.047/500	
C329-330			1700/2000	
C13-120			0.01/100	
C12-118			500	
C12-122			390/200	
C13-116			16.3A/250V	
F304-307				

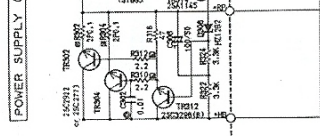
① SHORT ② OPEN ③ OPEN ④ OPEN ⑤ OPEN



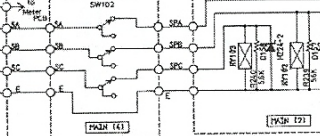
POWER SUPPLY (1)



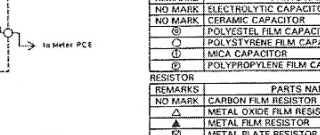
POWER SUPPLY (4)



POWER SUPPLY (3)

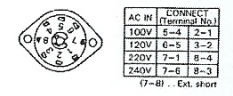
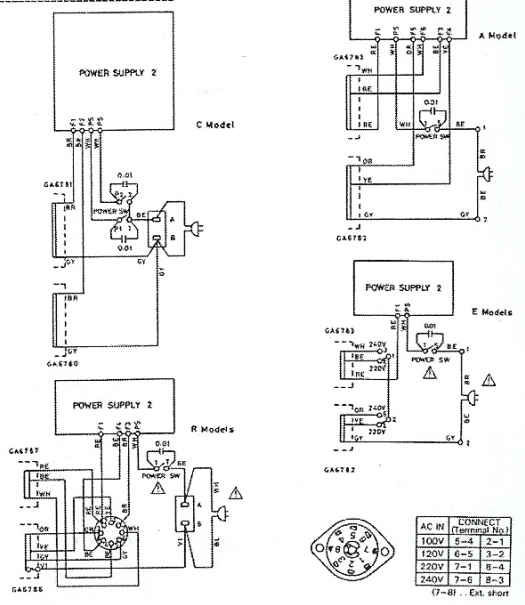


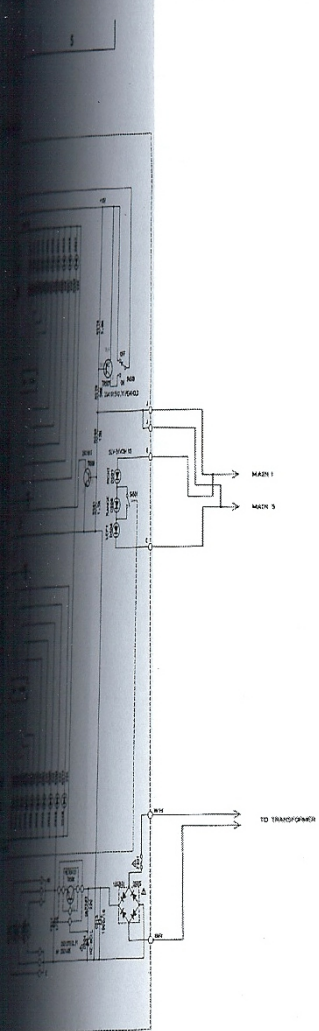
POWER SUPPLY (2)




REMARKS	PARTS NAME	QTY
NO MARK	ELECTROLYTIC CAPACITOR	1
NO MARK	CERAMIC CAPACITOR	
⊙	POLYESTER FILM CAPACITOR	
⊖	POLYSTYRENE FILM CAPACITOR	
⊕	MICA CAPACITOR	
⊘	POLYPROPYLENE FILM CAPACITOR	

REMARKS	PARTS NAME	QTY
NO MARK	CARBON FILM RESISTOR	
△	METAL OXIDE FILM RESISTOR	
▲	METAL FILM RESISTOR	
□	METAL PLATE RESISTOR	
⊙	FIRE PROOF CARBON FILM RESISTOR	
⊖	SEMI VARIABLE RESISTOR	



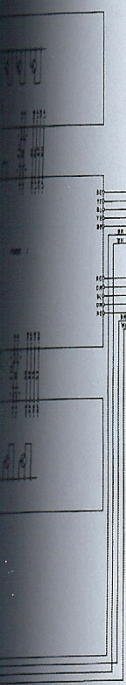
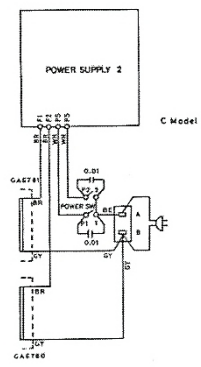
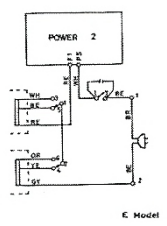
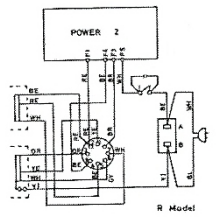
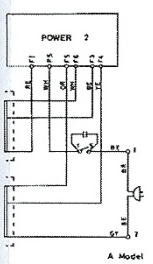
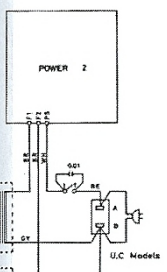


	R.F.C	A.E
F5E1	2.0A250V	T2.0A250V

Symbols  on the Meter pcb. indicate FAST OPERATING FUSE. Replace with same type fuse when servicing.

WIRE COLOR ABBREVIATIONS

- RE : RED
- WH : WHITE
- BL : BLUE
- BR : BROWN
- BL : BLACK
- YE : YELLOW
- OR : ORANGE
- GY : GRAY
- GE : GREEN
- VI : VIOLET



■ WARNING

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

● Carbon resistors of this amplifier are 1/4W.

There is no description about them in this parts list. Use the "Part No." HJ35○○○○ or equivalent.

■ PARTS LIST~ELECTRICITY

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
*	NA 08 46 10	Main Circuit Board	メ イ ン シ ー ト			U,R,A,C	
*	NA 08 49 50	"	"			E	
	UT 45 41 00	Polipropylene Film Cap	ポ リ プ ロ コ ン	C157,158		E	
	FC 36 31 00	Mylar Cap	マ イ ラ ー コ ン	C169			
	FC 36 31 50	"	"	C107,108			
	FC 36 44 70	"	"	C149~152,165			
	FA 15 46 80	"	"	C153~156			
	UT 45 23 90	Polipropylene Film Cap	ポ リ プ ロ コ ン	C113,114		E	
*	UT 45 21 50	"	"	C133,134			
	UT 45 24 70	"	"	C101,102			
	UT 45 41 00	"	"	C141~144			
	UT 46 32 70	"	"	C115~120		E	
	FU 35 05 00	FE Mica Cap	F E マ イ カ コ ン	C109,110			
	FU 35 14 70	"	"	C129,130,135,136			
	FU 35 11 80	"	"	C121,122			
	FU 35 13 90	"	"	C123,124			
	UA 25 52 20	Mylar Capacitor	マ イ ラ ー コ ン	C105			
	FZ 00 54 10	Electrolytic Cap	ケ ミ コ ン	C125,126,168			
*	FZ 00 61 30	"	"	C111,112			
*	FZ 00 61 40	"	"	C164			
	FZ 00 55 80	Mylar Cap	銅リードマイラーコン	C103,104			
	FZ 00 49 40	"	"	C137,138,170			
	UW 96 71 00	Electrolytic Cap	ケ ミ コ ン	C171			
	UW 95 71 00	"	"	C166,167			
	UW 95 74 70	"	"	C145~148			
	UW 96 54 70	"	"	C139,140			
	UM 07 71 00	"	"	C131,132			
*	FZ 00 59 70	"	"	C162,163			
	GD 90 03 70	Coil	コ イ ル	L101,102			
	HL 32 71 20	Metal Oxide Resistor	酸 金 抵 抗	R117,118			
	HL 32 32 20	"	"	R191,192			
	HL 32 41 00	"	"	R189,190			
*	HL 32 63 90	"	"	R226			
	HU 57 54 30	Metal Film Resistor	金 属 被 膜 抵 抗	R187,188			
	HM 55 53 90	Cement Moulded Resistor	セメントテイクウ	R218~220			
	HZ 00 44 70	"	"	R153~160			Δ
	HV 45 62 70	Flame Proof Resistor	不 燃 化 カ ー ボ ン	R181,182			
	HV 45 32 20	"	"	R141~148,235~238			Δ
	HV 45 34 70	"	"	R161~164			
	HV 45 41 00	"	"	R223,224			
	HV 45 42 20	"	"	R221,222			Δ
	HV 45 45 60	"	"	R115,116			
	HV 45 46 80	"	"	R121,122			Δ
	HV 45 51 00	"	"	R151,152			
	HV 45 52 20	"	"	R105,106,113,114			Δ
	HV 45 53 30	"	"	R125,126			
	HV 45 54 70	"	"	R233,234			
	HV 45 61 00	"	"	R135~138			
	HV 45 62 20	"	"	R173,174			Δ
	HV 45 66 80	"	"	R177,178			

* New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク	
※	HS 41 23 50	VR	20KA	V R 16 型	VR101,102			
	HT 37 00 10	Semi Variable Resistor	B1kΩ EVN-52J	半 固 定 V R	VR103,104	} Interchangeable		
	HT 77 00 30	"	B1kΩ KVSF8-7PNFX	"	"			
	iA 09 70 00	Transistor	2SA970 GR,BL	ト ラ ン ジ ス タ	TR143			
	iA 10 15 70	"	2SA1015 φ,Y	"	TR107~110		△	
	iA 11 15 10	"	2SA1115 E,F	"	TR127~130, 165,166	} Interchangeable		
	iA 11 27 00	"	2SA1127 R,S,T	"	"			
	iA 13 52 00	"	2SA1352	"	TR111,112,123,124		△	
	iB 05 60 00	"	2SA560 E,F	"	TR167,169			
	iC 22 40 00	"	2SC2240 GR,BL	"	TR103~106,121, 122,145,146	} Interchangeable		
	iC 26 03 10	"	2SC2603 E,F	"	TR139~142, 162~164,168,170			△
	iC 26 34 00	"	2SC2634 R,S,T	"	"			△
※	iC 34 16 00	"	2SC3416	"	TR113,114,117,118		△	
	iE 10 45 00	Dual FET	2SK389 GR,BL	デュアル F E T	TR101,102			
	iF 00 00 40	Diode	1S1555	ダ イ オ ード	D103~112,115, 116,121,122,146	} Interchangeable		
	iF 00 06 70	"	1S2473	"	"			
	iF 00 14 00	"	1SS82	"	D129~132,161, 162,165,166,160			
	iF 00 15 10	Zener Diode	HZ-6C1L	ツェナーダイオード	D101,102,127,128			
	iF 00 18 40	"	RD3,0EB2	"	D119,120			
	iF 00 20 80	"	HZ16-3L	"	D159,164		△	
	iF 00 19 40	"	HZ24-2	"	D147,157,158			
	iF 00 44 40	LED (Red)	SLV-56URC3H	L E D (赤)フック付き	D154~156			
	iF 00 64 70	Zener Diode	MTZ7.5B	ツェナーダイオード	D113,114,117,118	②		
	iF 00 68 20	"	MA1075-M	"	"	① Interchangeable		
※	iF 00 80 30	"	MTZ75C	"	"	①		
	KA 80 40 70	Push Switch	NS4-2	ブ ッ シ ュ S W	SW101			
※	KA 80 46 60	"	SUN2-2 3連	"	SW102			
※	KC 00 14 10	Relay	DC24V JC2a	リレー(マグネット付き)	RY101			
※	KC 00 19 20	"	DC24V MS4U	"	RY102,103			
	LB 20 19 50	Pin Jack 2P	金メッキ	2 P ビ ン ジャ ッ ク	PJ101			
	BB 07 04 10	Bus BAR	L=55					
	BB 07 04 20	"	L=100					
	BB 07 04 30	"	L=145					
	BB 06 83 70	Earth Metal						
※	LA 00 53 20	SP Terminal		S P タ ー ミ ナ ル				
※	LA 00 53 40	"	4P	"			R,U,A,C	
※	LA 00 53 70	"	4P	"			E	
※	NA 08 44 90	Meter Circuit Board		メ ー タ ー シ ー ト			U,R,C	
※	NA 08 45 00	"		"			A,E	
	UA 25 31 80	Mylar Cap	1800P 50V	マ イ ラ ー コ ン	C507,508			
	UA 25 41 00	"	0.01μ50V	"	C509			

※New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	UA 25 41 50	Mylar Cap	0.015 μ 50V	マイラーコン	C505,506		
	UA 75 61 00	"	1 μ 63V	"	C5511,512		
	UJ 13 91 00	Electrolytic Cap	1000 μ F 16V	ケミコン	C513		
	UW 96 54 70	"	0.47 μ F 50V	"	C503		
	UW 96 61 00	"	1 μ F 50V	"	C504,510,514		
	UW 96 62 20	"	2.2 μ F 50V	"	C501,502		
	HL 32 61 00	Metal Oxide Resistor	1k Ω 2P	酸金抵抗	R583		
	HT 37 00 10	Semi Variable Resistor	B1K	半固定VR	VR501,502	} Interchangeable	
	HT 77 00 30	"	"	"	"		
	HV 35 52 20	Flame Proof Resistor		不燃化カーボン抵抗	R582		
	iA 10 15 70	Transistor	2SA1015 ϕ ,Y	トランジスタ	TR507		
	iC 18 15 00	"	2SC1815	"	TR509		
	iD 12 73 00	"	2SD1405 Q,P	"	TR508	} Interchangeable	
*	iD 14 05 00	"	2SD1405	"	"		
	iE 10 05 00	FET	2SK68A	F E T	TR501,502,505,506		
	iE 10 05 10	"	2SK68A K1,K2	"	TR503,504	} Interchangeable	
	iE 10 05 20	"	2SK68A L1,L2	"	"		
	iF 00 15 10	Zener Diode	HZ-6C1L	ツェナーダイオード	D504		Δ
	iF 00 18 40	"	RD3,0EB2	"	D503		
	iF 00 20 80	"	HZ16-3L	"	D501,502		
*	iF 00 77 10	LED	SLV-31VC5	L E D	D509~548		
*	iF 00 81 70	"	SLV-31VC3H	"	D506~508		
	iG 03 06 00	IC	TA7612AP	I C	IC501~504		
	iG 03 07 00	"	TA7318P	"	IC506		
	iG 05 82 00	"	M5218L	"	IC505		
	iH 00 08 10	Diode Bridge	1B4B41	ダイオードブリッジ	D505		Δ
*	KA 80 45 10	Push Switch	SF1201-4	ブッシュSW 4-2	SW501		
*	KA 80 45 20	"	SF1202-03	ブッシュSW	SW502		
*	KA 80 45 30	"	SF1201-2	ブッシュSW 2-2	SW503		
	KB 00 07 50	Fuse	T2.0A 250V	ヒューズ	F501	A,E	Δ
	KB 00 10 30	"	2.0A 250V	"	"	U,C,R	Δ
	LB 20 18 80	Fuse Holder Pin		ヒューズホルダーピン			
*	CB 63 05 40	LED Reflector		LEDリフレクター			
*	NA 08 45 80	Power Circuit Board		電源シート		E	
*	NA 08 45 70	"		"		U	
*	NA 08 45 90	"		"		R	
*	NA 08 46 00	"		"		A	
*	NA 08 48 80	"		"		C	

*New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
	FC 36 41 00	Mylar Cap	0.01 μ 50V	マイ ラ ー コ ン	C301~304		
	FC 36 44 70	"	0.047 μ 50V	"	C317~320		
	FU 35 12 20	FE Mica Cap	22P 500V	F E マ イ カ コ ン	C315,316		
	FZ 00 06 70	MM Ceramic Cap	0.047 μ 400V	M M コ ン	C324,325,330,331	R,U,A,C	
	FZ 00 06 70	"	"	"	C322,323,326~329,332,333	E	
	UT 45 21 00	Polipropylene Film Cap	100P 100V(J)	ポ リ プ ロ コ ン	C311,312		
*	UT 45 21 50	"	150P 100V(J)	"	C309,310,313,314		
	UT 45 44 70	"	0.047 μ 100V(J)	"	C335~338		
	UJ 16 81 00	Electrolytic Cap	100 μ F 50V	ケ ミ コ ン	C305~308		
	HV 45 32 20	Frame Proof Resister	2.2 Ω	不 燃 化 カ ー ボ ン 抵 抗	R309~316		
	HV 45 34 70	"	4.7 Ω	"	R335~338,343~346		
	HV 45 44 70	"	47 Ω	"	R317~320		
	HV 45 52 20	"	220 Ω	"	R339~342		
	HZ 00 38 30	Metal Plate Resister	0.1 Ω 2P	金 属 板 抵 抗	R301~308		
	iA 11 45 00	Transister	2SA1145 ϕ ,Y	ト ラ ン ジ ス タ	TR313,314		
	iC 27 05 00	"	2SC2705 ϕ ,Y	"	TR315,316		
*	iA 13 06 50	"	2SA1306B	"	TR309,310		
*	iC 32 98 50	"	2SC3298B	"	TR311,312		
	iH 00 02 40	Diode	1S1885	ダ イ オ ー ド	D311~318		
	iF 00 72 10	Zener Diode	MA1240-M	ツ ェ ナ ー ダ イ オ ー ド	D319~322	} Interchangeable	
	iF 00 19 40	"	HZ24-2	"	"		
	iF 00 23 50	"	HZ12-B2	"	D307,308,309,310		
	iH 00 09 60	Diode	30DF1	ダ イ オ ー ド	D323~326	} Interchangeable	
	iH 00 13 50	"	S3K20	"	"		
	iH 00 13 60	"	RP4Z(LF-J4)	"	"		
	iH 00 11 30	Diode Bridge	D5FB20	ダ イ オ ー ド ブ リ ッ ジ	D302,304		
	iH 00 11 30	"	"	"	D301,303	E,C	Δ
	iH 00 08 70	"	4D4B41	"	"	R,U,A	Δ
	KB 00 13 90	Fuse	250V 10A	ヒ ュ ー ズ	F301,302	R,U,C	Δ
	KB 00 07 90	"	250V T4.0A	"	"	A,E	Δ
	KB 00 14 90	"	250V 10A	"	F303	R	Δ
	KB 00 17 60	"	250V T6.3A	"	F304~307	E	Δ
	KB 00 15 20	"	125V 7A	"	"	U,C	Δ
	LB 20 18 80	Fuse Holder Pin		ヒ ュ ー ズ ホ ル ダ ー ピ ン			
	BB 07 04 40	Bus Bar		バ ス バ ー			

* New Parts (新規部品)

A

B

C

D

M-80

■EXPLODE VIEW~MECHANISM CHASSIS UNIT(All over)

1

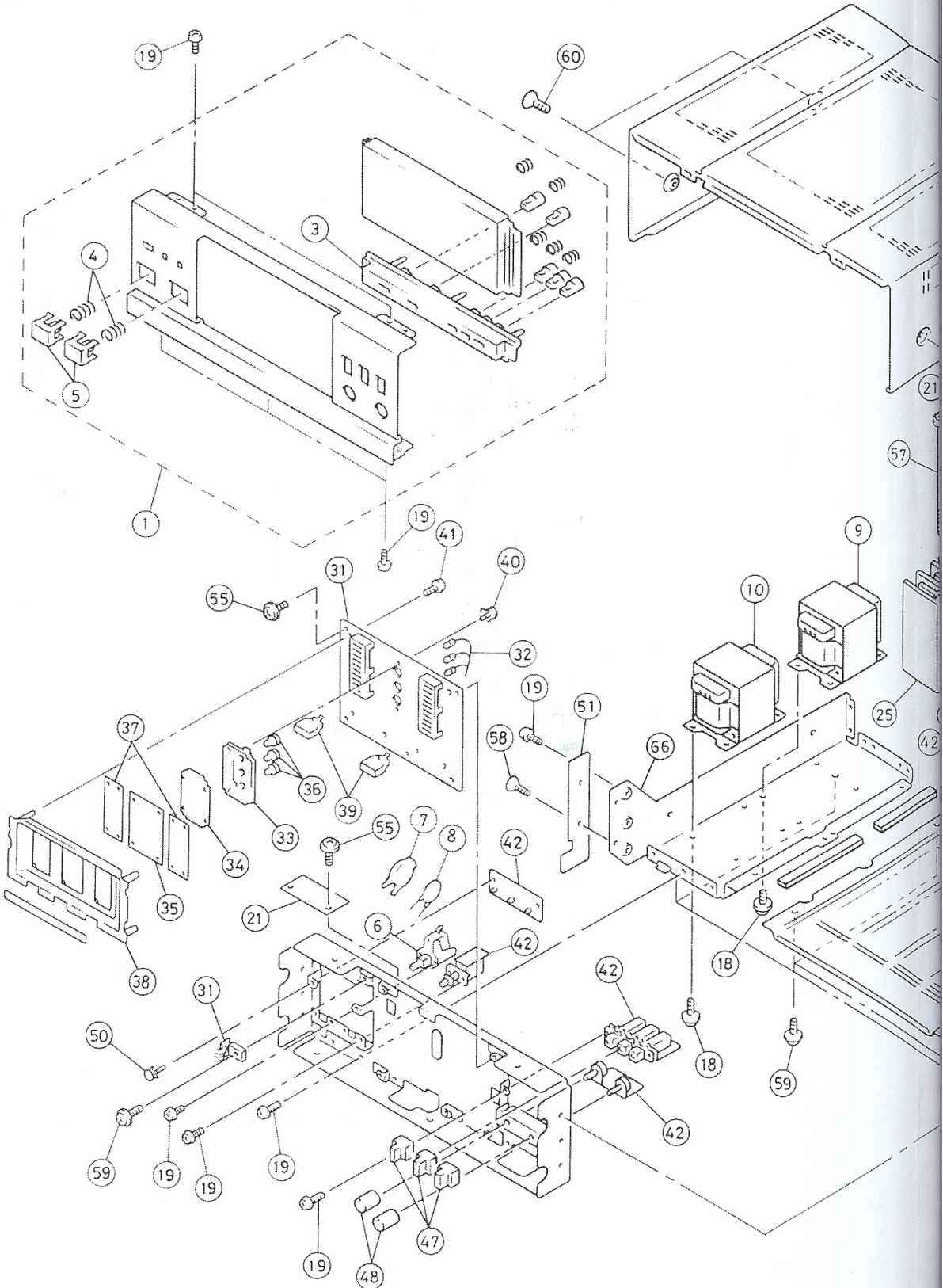
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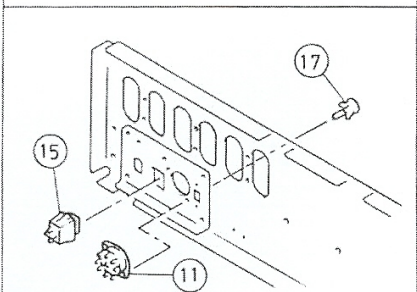
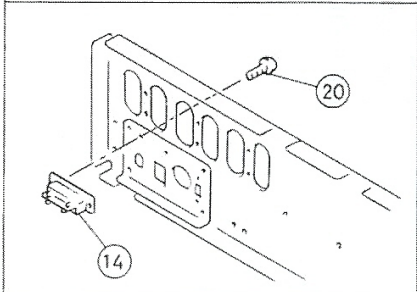
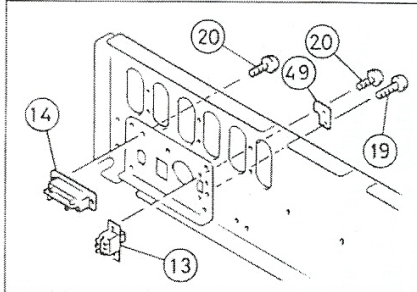
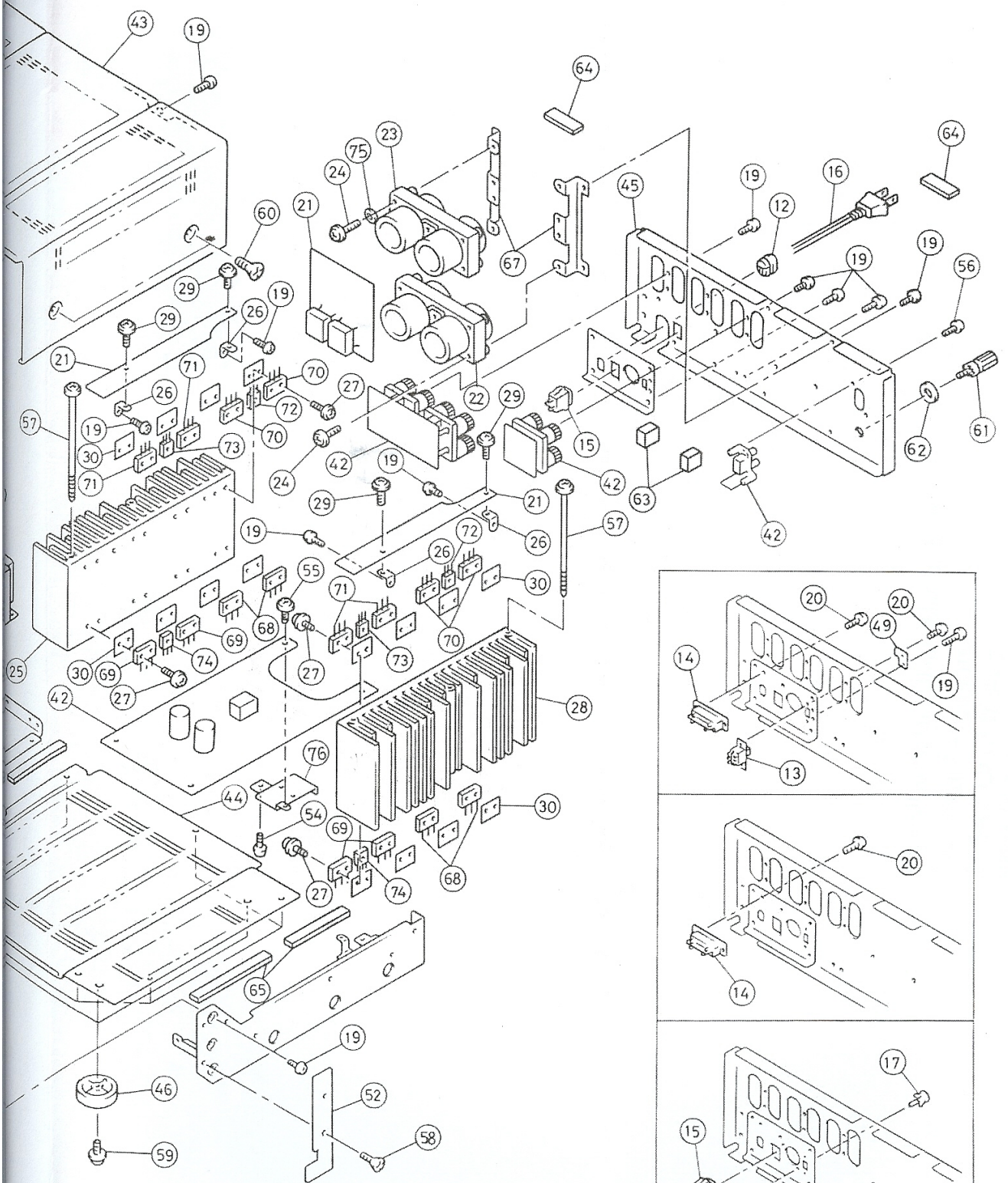
3

4

5

6





■ PARTS LIST ~ MECHANISM CHASSIS UNIT (All over)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	1	NB 62 04 80	Panel Unit	パネルユニット			
※	3	NB 62 03 80	Sub Panel	サブパネル			
※	4	AA 62 20 80	Spring	スプリング			
※	5	CB 63 03 50	Push Button	プッシュボタン			
※	6	KA 80 25 50	Push Switch	プッシュスイッチ		R,U,A,E	
※	"	KA 80 47 60	"	"		C	
※	7	CB 09 52 60	Cover	SB-0833 コンデンサカバー	丸形		
※	8	Fi 38 41 00	Ceramic Cap	VA-1 0.01 セラコン			
※	9	GA 67 78 20	Power Transformer	電源トランス		U	△
※	"	GA 67 80 20	"	"		C	△
※	"	GA 67 82 10	"	"		A,E	△
※	"	GA 67 86 20	"	"		R	△
※	10	GA 67 79 20	"	"		U	△
※	"	GA 67 81 20	"	"		C	△
※	"	GA 67 83 10	"	"		A,E	△
※	"	GA 67 87 20	"	"		R	△
※	11	LB 20 14 80	Voltage Selector	電圧切換器			
※	12	CB 07 27 50	Cord Stopper	SR-4N-4 コードストッパー		U,E,C	
※	"	CB 62 01 90	"	CM-22B "		R,A	
※	13	KA 40 13 30	Slide Switch	SS-12 スライドスイッチ	Voltage Selector	E	
※	14	LA 00 29 50	2P Relay Terminal	MA0092A 2 P 中継端子台		A,E	
※	15	LB 20 18 10	AC Outlet	S-i6498 A C アウトレット	単連	R,U,C	△
※	16	MG 00 09 10	Power Cord	2m 6A 250V 電源コード		E	△
※	"	MG 00 09 20	"	2.5m 7.5A 250V "		Inter changeable	△
※	"	MG 00 14 90	"	"			A
※	"	MG 00 13 60	"	2m 13A 125V "		U,C	△
※	"	MG 00 16 30	"	2m 6A 250V "		R	△
※	17	CB 06 88 80	Plastic Rivet	プラスチックリベット		R	
※	18	AA 60 38 50	Fixing Screw	段付きネジ			
※	19	ED 33 00 86	Binding Head Screw	3×8 FCM3-B \dagger 鉄ボンディングネジ	Bタイト		
※	20	ED 33 00 66	"	3×6 FCM3-B \dagger 鉄バインド小ネジ		A,E	
※	21	NA 08 45 70	Power Circuit Board	電源シート		U	
※	"	NA 08 45 80	"	"		E	
※	"	NA 08 45 90	"	"		R	
※	"	NA 08 46 00	"	"		A	
※	"	NA 08 48 80	"	"		C	
※	22	FZ 00 60 10	Electrolytic Cap Set	47000 μ F/45V ケミコンセット	C345,346		
※	23	FZ 00 60 20	"	33000 μ F/56V "	C343,344		
※	24	Ei 33 02 06	Binding Head Screw	3×20 FCM3-B \dagger バインドタッピングネジ	Bタイト		
※	25	BA 09 02 40	Heat Sink	放熱板	Left	A,E,R	
※	28	BA 09 00 40	"	"	Right	A,E,R	
※	25	BA 09 05 80	"	"	Left	U,C	
※	28	BA 09 05 90	"	"	Right	U,C	
※	26	AA 62 20 60	Stay	TRPCB ステー			
※	27	EZ 00 13 50	Cup Screw	ϕ 8 3×14 FCM3-B \dagger 鉄カップスクリュー	Bタイト		
※	29	EK 33 60 10	BW Head Screw	3×8 FCM3-B \dagger 鉄BWヘッドタッピングネジ			
※	30	iL 00 06 00	Mica Base	MT-200 マイカベース			
※	31	NA 08 44 90	Meter Circuit Board	メーターシート		R,U,C	
※	"	NA 08 45 00	"	"		A,E	
※	32	JB 00 11 00	Pilot Lamp	BV 150mA パイロットランプ			
※	33	CB 63 05 30	Lamp Reflector	ランプリフレクター			
※	34	CB 63 05 50	Diffusing Plate	ディフュージングプレート			

※ New Parts (新規部品)

Ref. No.	Part No.	Description	部 品 名	Remarks	Common Model	Markets	ランク
※	35	CB 63 03 20	Meter Sheet	メーターシート			
※	36	CB 63 07 50	Lamp Cap	ランプキャップ			
※	37	CB 63 03 40	Diffusing Film	ディフュージングフィルム			
※	38	CB 63 02 90	Meter COver	メーターカバー			
※	39	CB 63 03 90	Reflector	リフレクター			
	40	CB 06 88 80	Plastic Rivet	プラスチックリベット			
	41	ED 33 01 06	Binding Head Screw	3×10 FCM3-B ϵ	鉄 バインドネジ	Pタイト	
※	42	NA 08 46 10	Main Circuit Board	メ イン シート			R, U, A, C
※	"	NA 08 49 50	"	"			
※	43	AA 62 19 80	Top Cover	ト ッ プ カバ ー			
※	44	AA 62 20 30	Bottom Cover	ボ ト ム カバ ー			
※	45	AA 62 22 90	Rear Panel	リ ヤ パ ネ ル			R
※	"	AA 62 23 00	"	"			U, C
※	"	AA 62 23 10	"	"			A
※	"	AA 62 23 20	"	"			E
※	46	NB 62 03 20	Leg Ass'y	脚			
※	47	NB 62 04 60	Button Ass'y	ボ タ ン A S S ' Y			
	48	BA 08 58 70	Knob	ツ マ ミ			
	49	CB 60 14 40	VS Stopper	V S ス ト ッ パ ー			E
	50	CB 06 88 80	Plastic Rivet	プラスチックリベット			
※	51	CB 63 03 70	Side Plate	サイ ド プ レ ー ト	Left		
※	52	CB 63 03 80	"	"	Right		
	55	EK 36 50 80	BW Head Screw	3×8 FCM3-B ϵ	BWヘッドタッピンネジ		
	57	EX 60 00 30	"	4×132 FCM3-B ϵ	B W ヘ ッ ド 小 ネ ジ	トガリ先	
	58	EB 04 01 06	Flat Head Screw	4×10 FCM3-B ϵ	皿 ネ ジ	Sタイト	
	59	EK 33 00 30	BW Head Screw	3×10 FCM3-B ϵ	BWヘッドタッピンネジ		
	60	AX 60 01 50	Screw	4×8 FCM3-B ϵ	化 粧 ネ ジ	Sタイト	
	61	EZ 00 14 00	Ground Terminal Screw	3×13.5 MFNI-V	ア ー ス 端 子 ネ ジ		
	62	EV 90 13 60	Flat Washer Sems Type	ϕ 10 ϕ 3.6 t0.8 FNH3	鉄 セ ム ス 平 座 金		
	76	AA 62 20 40	Stay Heat Sink	ヒートシンクステー			
	63	CB 63 07 60	Dumper (M)	ダ ン パ ー			
	64	CB 60 13 40	Spacer	ス ペ ー サ ー			
	65	CB 63 07 80	Dumper	ダ ン パ ー			
		CB 62 20 60	Anti-Vibration Tape	ボ ウ シ ン テ ー プ			
	66	AA 62 33 30	Side Frame (L)	サイ ド フ レ ー ム (L)			
	67	AA 62 20 70	Stay, Electrolytic Cap	ケ ミ コ ン ス テ ー			
※	68	iA 11 69 00	Transistor	2SA1169	ト ラ ン ジ ス タ	TR135~138	
※	69	iC 27 73 00	"	2SC2773	"	TR131~134	△
※	70	iX 60 32 60	"	2SA1216	"	TR305~308	△
※	71	iX 60 32 70	"	2SC2922	"	TR301~304	△
※	70	iA 11 69 00	"	2SA1169	"	TR305~308	△
※	71	iC 27 73 00	"	2SC2773	"	TR301~304	△
	72	iA 13 06 50	"	2SA1306B	"	TR125,126	△
	73	iC 32 98 50	"	2SC3298B	"	TR119,120	△
	74	iC 19 53 50	"	2SC1953	"	TR115,116	△
	75	EV 20 20 36	WASHER	ワ ッ シ ャ ー			

※New Parts (新規部品)