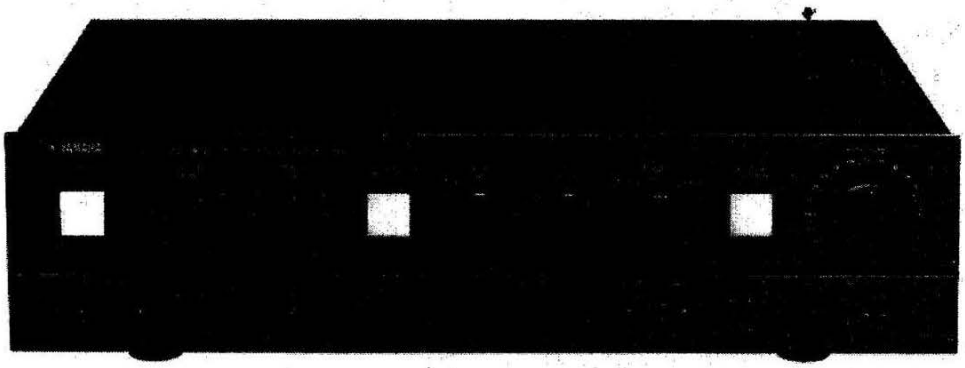
SERVICE MANUAL

C-4

PRE-AMPLIFIER



SINCE 1887 YAMAHA

NIPPON GAKKI CO., LTD. HAMAMATSU, JAPAN

004367

Jun '78 2K T.T Printed in Japan

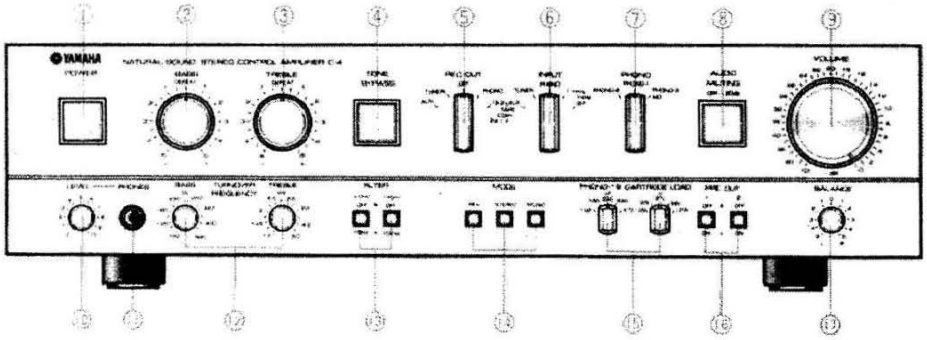
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ADJUSTMENT/ADJUSTMENT POINTS 8
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■PANEL OPERATION

FRONT PANEL

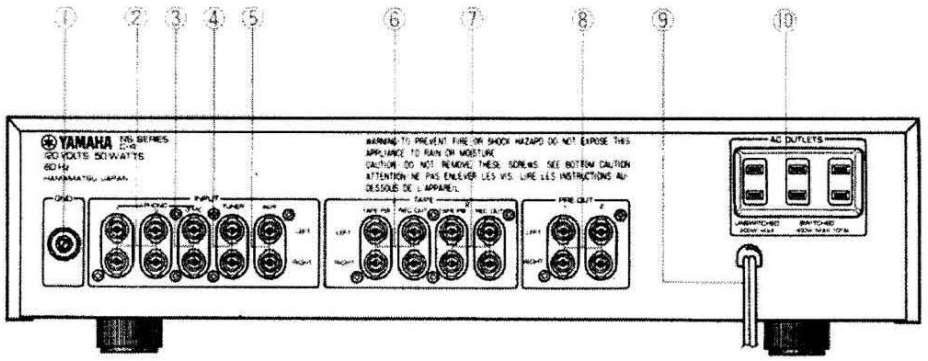


①POWER Switch
②BASS Control
③TREBLE Control
④TONE BYPASS Control
⑤REC OUT Selector
⑥INPUT Selector
⑦PHONO Input Selector
⑧AUDIO MUTING Switch
⑨VOLUME Control
⑩PHONES LEVEL Control
⑪PHONES Jack
⑫TURNOVER FREQUENCY Controls
⑬FILTER Switches
⑭MODE Switches
⑮PHONO-1,2 CARTRIDGE LOAD Switches
⑯PRE OUT Selectors
⑰BALANCE Control

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REAR PANEL

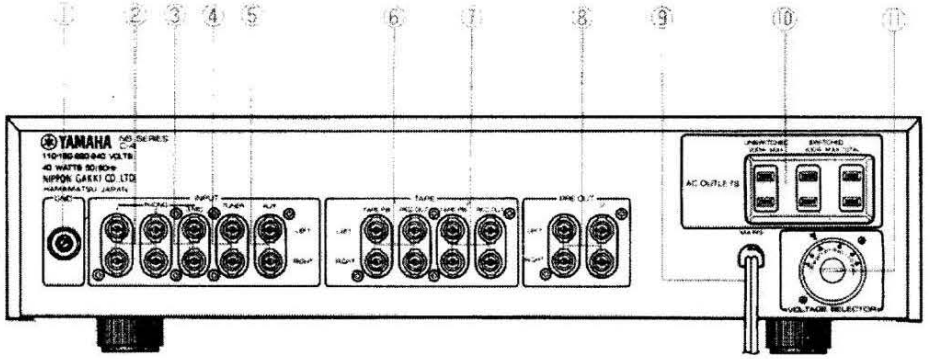
U.S.A and CANADIAN Model



① GND Terminal
② PHONO-1,2(MM) Terminals
③ PHONO-3(MC) Terminals
④ TUNER Terminals
⑤ AUX Terminals
⑥ TAPE 1 PB and REC OUT Terminals
⑦ TAPE 2 PB and REC OUT Terminals
⑧ PRE OUT Terminals
⑨ AC Power Cord
⑩ AC OUTLETS

EUROPEAN and GENERAL Model

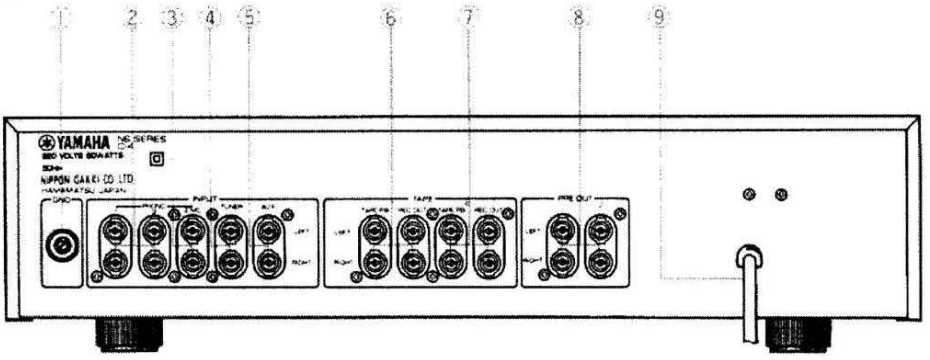
(General Model)



① GND Terminal
② PHONO-1,2(MM) Terminals
③ PHONO-3(MC) Terminals
④ TUNER Terminals
⑤ AUX Terminals
⑥ TAPE 1 PB and REC OUT Terminals
⑦ TAPE 2 PB and REC OUT Terminals
⑧ PRE OUT Terminals
⑨ AC Power Cord
⑩ AC OUTLETS (General model only)
⑪ VOLTAGE SELECTOR

NOTH EUROPEAN , BRITISH and AUSTRALIAN Model

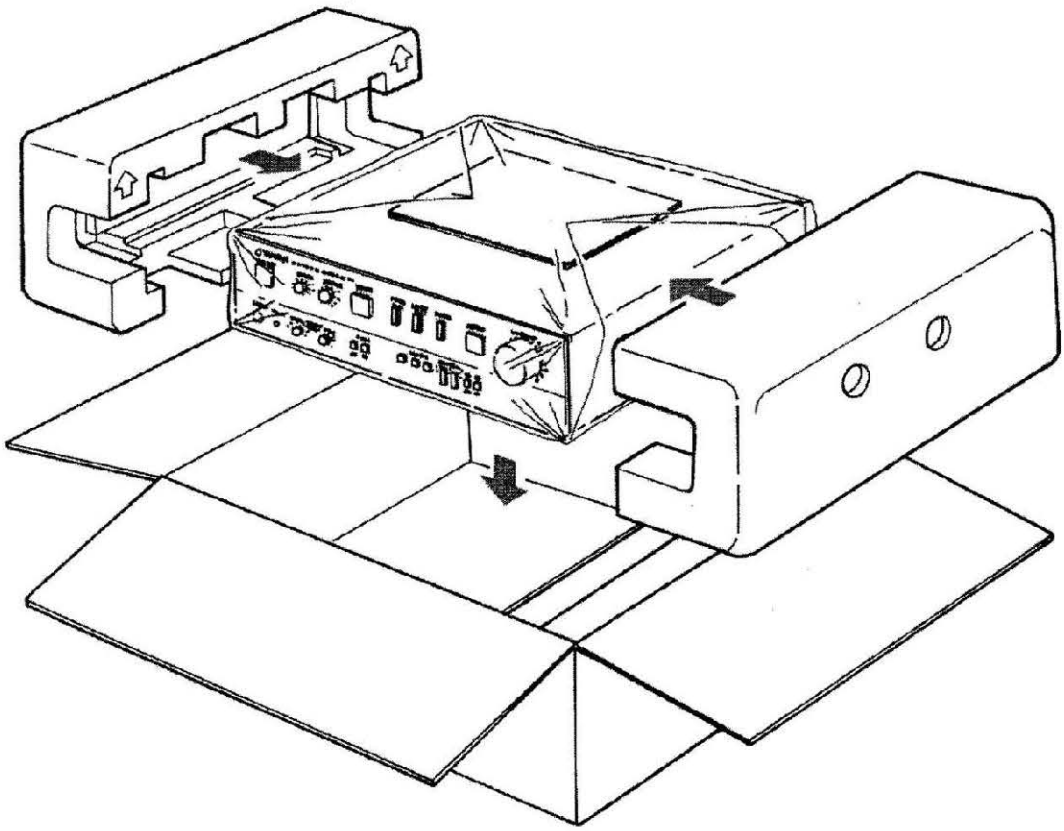
(Noth European Model)

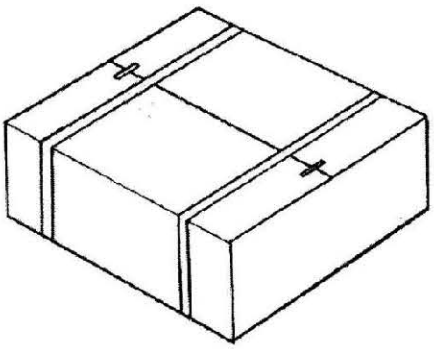


① GND Terminal
② PHONO-1,2(MM) Terminals
③ PHONO-3(MC) Terminals
④ TUNER Terminals
⑤ AUX Terminals
⑥ TAPE 1 PB and REC OUT Terminals
⑦ TAPE 2 PB and REC OUT Terminals
⑧ PRE OUT Terminals
⑨ AC Power Cord

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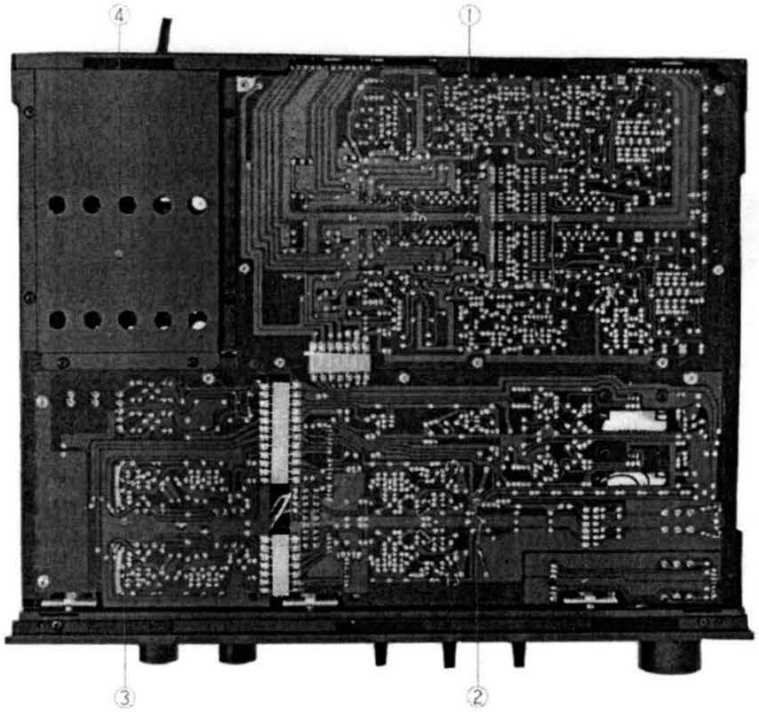
■PACKAGE INSTRUCTION





■APPELLATION OF PARTS

INTERNAL APPEARANCE (Upper side)



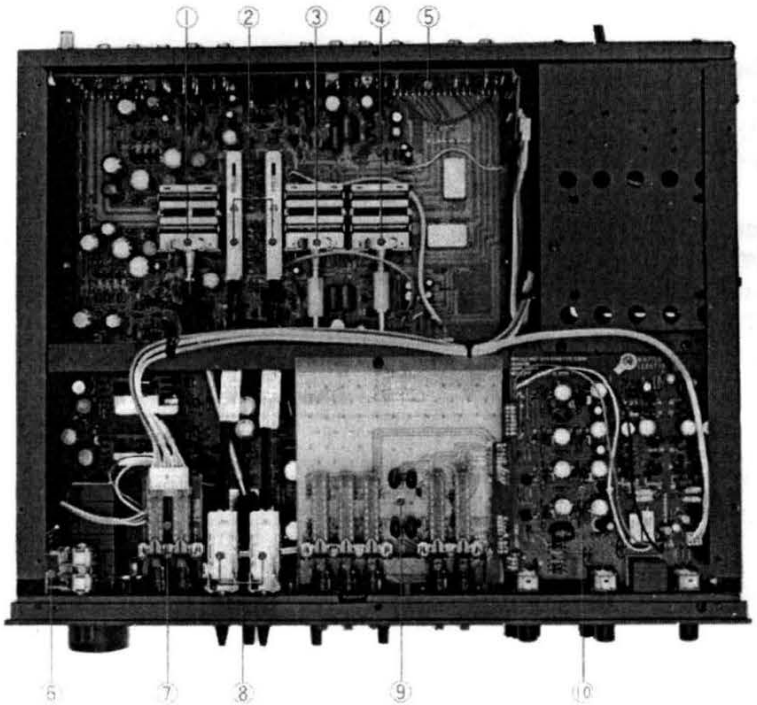
① Function C.Board
NA07149 (U:NA07150)

② Flat Amp. C.Board
NA07151 (U:NA07152)

③ Power C.Board
NA07153 (U:NA07154)

④ Transformer Shield

INTERNAL APPEARANCE (Bottom side)



① PHONO Input Selector Switch

② PHONO-1,2 CARTRIDGE LOAD Switches

③ INPUT Selector Switch

④ REC OUT Selector Switch

⑤ Pin Jack C.Board
NA07148

⑥ Flat Amp. C.Board (3)
NA07151-3 (U:NA07152-3)

⑦ Flat Amp. C.Board (2)
NA07151-2 (U:NA07152-2)

⑧ Remote Switches

⑨ Switch C.Board
NA07157 (U:NA07169)

⑩ Headphone C.Board
NA07155 (U:NA07156)

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■DISASSEMBLY PROCEDURES

1. Removal of Top Cover

After removing screws ①~④ shown in Photo 1, take off the top cover by drawing it toward the rear panel side.

2. Removal of Bottom Cover

Detach screws ⑤~ ⑩ shown in Photo 1.

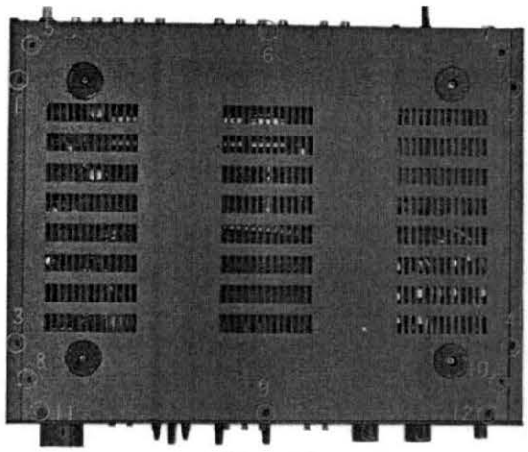


Photo 1

3. Removal of Front Panel

(1) Take off both the top and bottom covers. (Refer to Steps 1 and 2.)

(2) Pull out the PHONES-LEVEL knob and the BASS, TREBLE and BALANCE knobs of TURNOVER FREQUENCY toward yourself.

(3) Using a hexagonal wrench (M1.5φ), unscrew the set screws of the BASS, TREBLE, REC OUT, INPUT, PHONO, VOLUME and PHONO-1, 2 CARTRIDGE LOAD knobs, and pull out the knobs.

(4) Take off screws ⑪ and ⑫ (Photo 1) and screws ① and ② (Photo 2). Detach the front panel, drawing it gently toward yourself.

* When doing this, be careful not to damage the lead wires of the pilot lamps for the POWER, TONE BYPASS and AUDIO MUTING switches.

(5) Pull out the pilot lamps of the POWER, TONE BYPASS and AUDIO MUTING switches from the lamp holders. (See Fig. 1.)

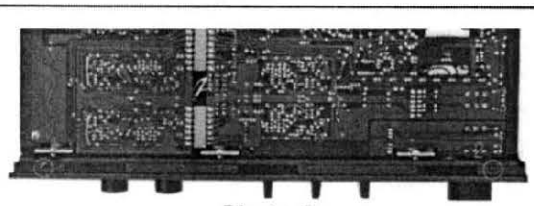


Photo 2

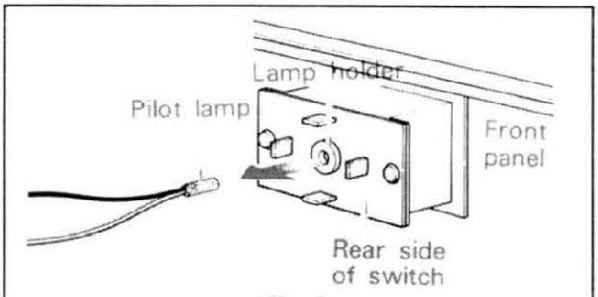


Fig. 1

4. Removal of Headphone Amplifier and Switch C. Board

(1) Take off the top cover and front panel. (Refer to Steps 1 and 3.)

(2) Pull out the connectors that are wired to the headphone amplifier and switch c. board.

(3) Remove screws ① and ② and nuts ③~⑥ (Photo 3) as well as screws ① and ② shown in Photo 4.

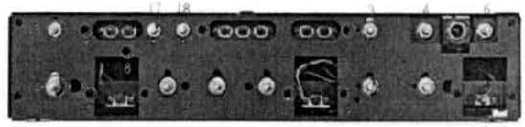


Photo 3

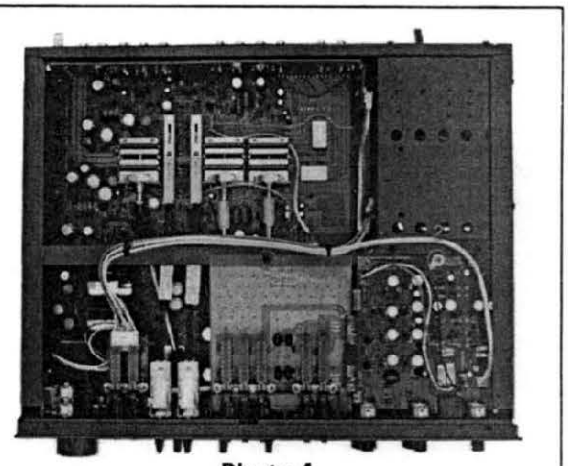


Photo 4

5. Removal of Flat Amplifier Circuit Board

(1) Detach the top cover, bottom cover and front panel. (Refer to Steps 1, 2 and 3.)

(2) Remove screws ⑦~ ⑫ and nuts ⑬ and ⑭ (Photo 3). Remove screws ① and ② (Photo 5). Now, the flat amplifier c. board can be taken off by disconnecting the lead wires.

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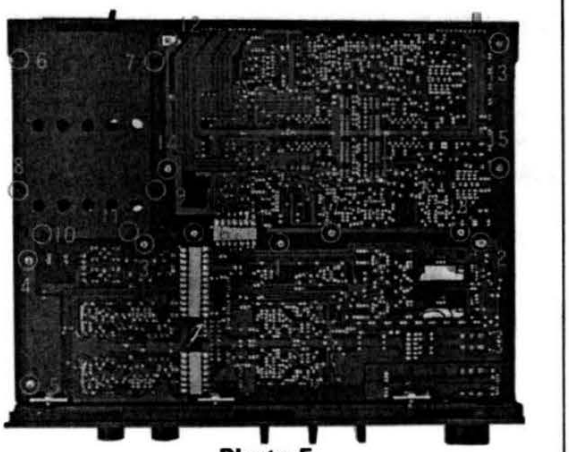


Photo 5

6. Removal of Power C. Board

(1) Take off the top cover, bottom cover and front panel. (Refer to Steps 1, 2 and 3.)
(2) After removing nuts (15) and (16) (Photo 3) and screws (3)~(5) (Photo 5), disconnect the lead wires. Now, the power c. board will come off.

7. Removal of Transformer Shield

(1) Detach the top cover. (Refer to Step 1.)
(2) Remove screws (6)~ (11) shown in Photo 5.

8. Removal of Rear Panel

(1) Take off the top cover, bottom cover and transformer shield, referring to Steps 1, 2 and 7.
(2) After disconnecting the internal wiring of the AC outlets, remove screws (1)~ (20) and plastic rivet (A) shown in Photo 6.
* When removing plastic rivet (A), gently hold the rivet with radio pliers and pull toward yourself.

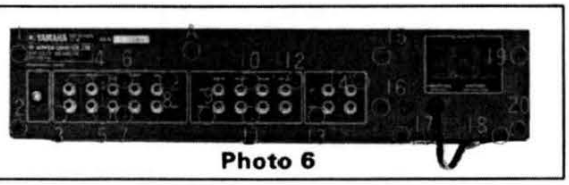


Photo 6

9. Removal of Function and Pin Jack Circuit Boards

(1) Detach the top cover, bottom cover, front panel and rear panel. (Refer to Steps 1, 2, 3 and 8.)
(2) Take off the two remote switches by detaching nuts (17) and (18) shown in Photo 3.
(3) Separate the wire from the remote switch in the manner shown in Fig. 2.
(4) Using (–) screwdriver and a pair of radio pliers, pull each switch joint in the direction of the arrow to disconnect it from the extension shaft.
(5) After detaching screws (12)~ (18) shown in Photo 5, disconnect each lead wire.

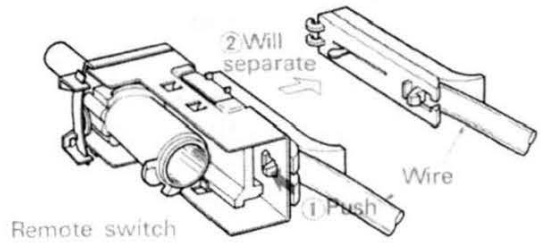


Fig. 2

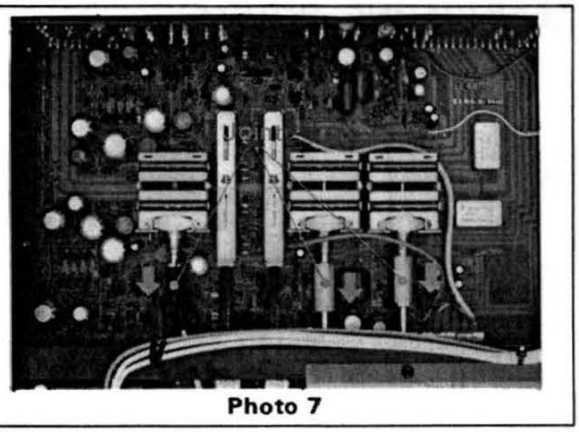


Photo 7

10. Removal of Power Transformer

(1) Take off the top cover, bottom cover and transformer shield. (Refer to Steps 1, 2 and 7.)
(2) After disconnecting each lead wire, take off screws (1) and (2) (Photo 8).

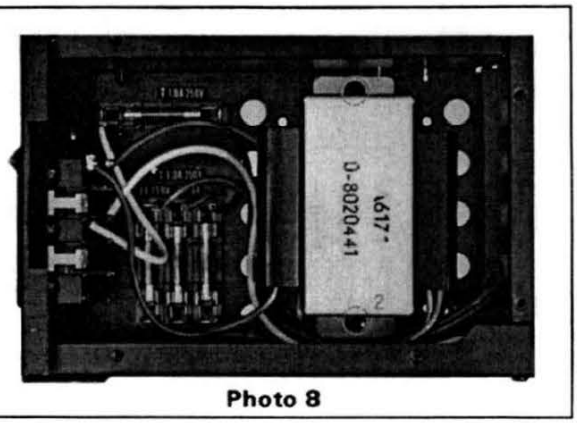


Photo 8

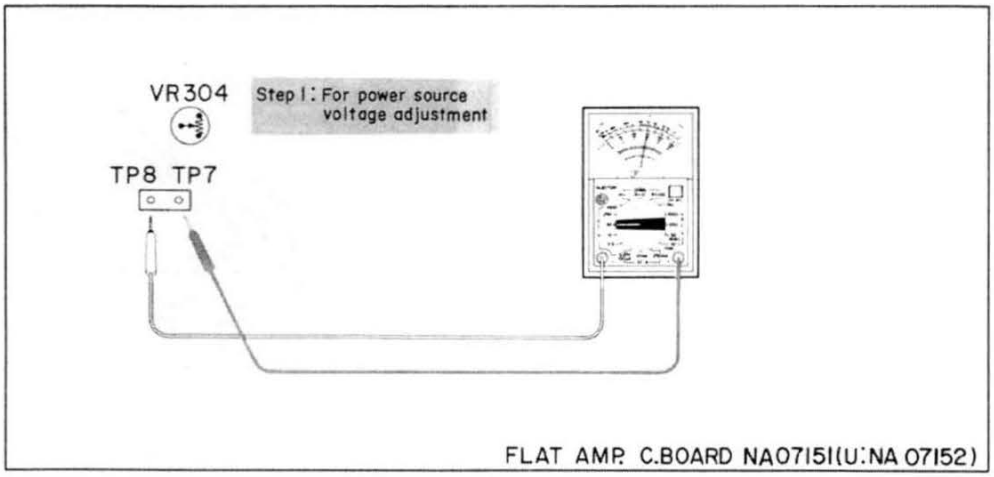
■ADJUSTMENT

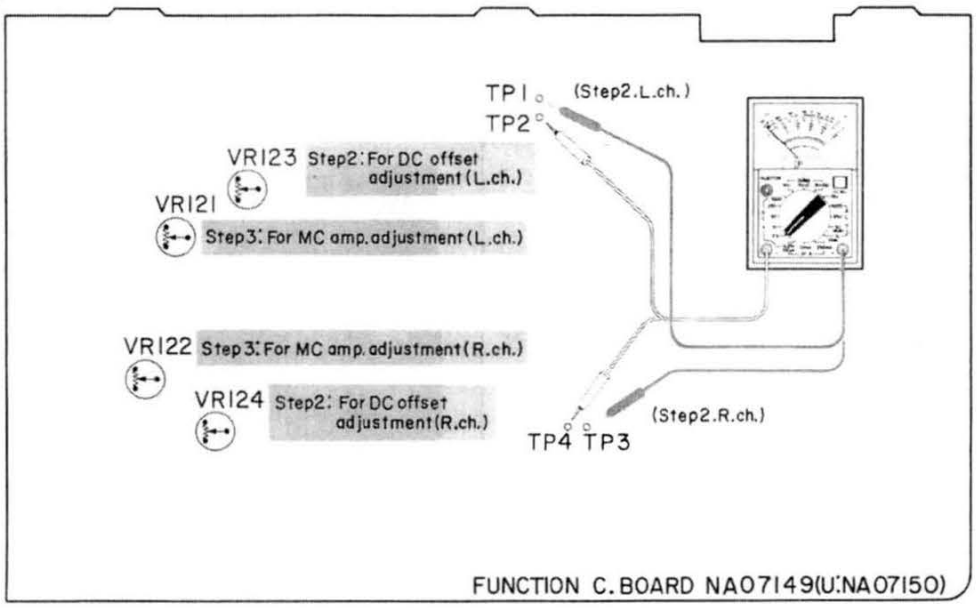
PRIOR TO ADJUSTMENT

- **Adjustment is to be carried out only after 3 or 4 minutes have passed following switch-on of power, and when the amplifier's operation stabilizes.**
- **The volume knob should be set to minimum.**

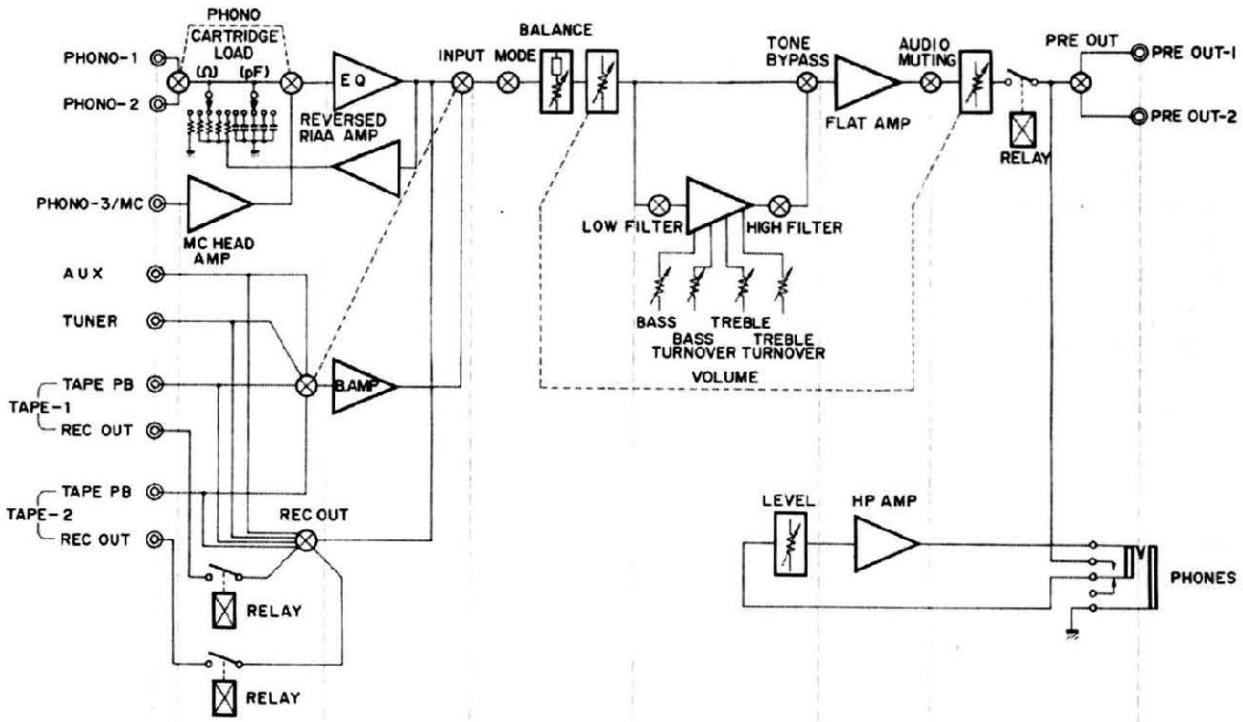
Step	Adjustment Item	Adjustment Points	Equipment	Output Terminal / Test Points	Specified Value
1	Power source voltage Adj.	Flat Amp. C. Board VR304	Electronic Voltmeter (Tester)	Flat Amp. C. Board Between TP7 (+) and TP8 (E)	30V ±0.5V
2	DC offset Adj. of equalizer section	Function C. Board VR123 (L. ch.) VR124 (R. ch.)	Electronic Voltmeter (Tester)	Function C. Board Between TP1 and TP2 Between TP3 and TP4	0V ±200mV
3	Distortion Adj. of MC Amp. section	Function C. Board VR121 (L. ch.) VR122 (R. ch.)	Oscillator (20kHz) Distortion meter	REC OUT Terminal (20kHz, 2V)	Adjust so that distortion will be minimum.

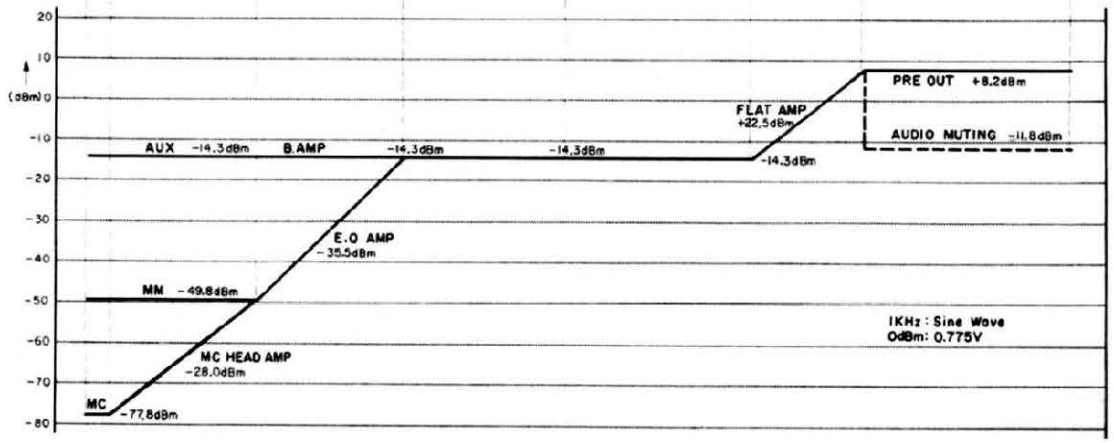
■ADJUSTING POINTS





■BLOCK DIAGRAM/LEVEL DIAGRAM





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■SPECIFICATIONS

Input Sensitivity/Impedance (1kHz)	
PHONO-1, 2	2.5mV/100Ω · 33kΩ ·
	47kΩ · 68kΩ · 100kΩ
	Capacitance: 100pF ·
	150pF · 220pF · 330pF
	470pF
PHONO-3/MC	100μV/50Ω
AUX, TUNER, TAPE PB-1, 2	150mV/47kΩ
Maximum Input Levels	
PHONO-1, 2	285mV at 0.01% T·H·D
PHONO-3/MC	10mV at 0.02% T·H·D
AUX, TUNER, TAPE PB-1, 2	8.2V at 0.01% T·H·D
Output Level/Impedance	
REC OUT 1, 2	150mV/180Ω
PRE OUT 1, 2	2.0V/600Ω
PHONES OUT	18V (at open load, 0.05
	% T·H·D) /330Ω
Maximum Output Level (20 to 20,000Hz)	
REC OUT 1, 2	15V (0.01% T·H·D)
PRE OUT 1, 2	10V (0.01% T·H·D)
PHONES OUT	18V (at open load)
Total Harmonic Distortion Ratio (20 to 20,000Hz)	
PHONO-1, 2 to PRE OUT-1, 2 (Vol. −30dB)	
	0.0035% (2V output)
PHONO-3/MC to PRE OUT-1, 2 (Vol. −30dB)	
	0.1% (2V output)
AUX,TUNER,TAPE PB-1, 2 to PRE OUT-1, 2(Vol. max)	
	0.0035% (10V output)
PHONES OUT	0.02% (12mW, 8Ω)
IM Distortion Ratio	
AUX, TUNER, TAPE PB-1, 2 to PRE OUT-1, 2	
	0.005% (at 10V output)
Signal-to-Noise Ratio (IHF A-Network)	
	85dB (input shorted,
	rated output level)
PHONO-1, 2	73dB (input open, cart-
	ridge load: 47 kΩ rated
	output level)
PHONO-3/MC	77dB (input shorted,
	rated power)
AUX, TUNER, TAPE PB-1, 2	
– TONE BYPASS: ON –	106dB
– TONE BYPASS: OFF –	100dB
Residual Noise	0.2μV

Frequency Response	
RIAA Deviation	20 to 20,000Hz±0.2dB
AUX, TUNER, TAPE PB-1, 2	5 to 100kHz±0.5dB
Tone Control Characteristics	
Bass Turnover Frequency	100Hz to 500Hz
Bass Boost/Cut	±10dB at 20Hz
Treble Turnover Frequency	1kHz to 5kHz
Treble Boost/Cut	±10dB at 20kHz
Filter Characteristics	
LOW FILTER	15Hz, 12dB/oct
HIGH FILTER	10kHz, 12dB/oct
Channel Separation	
PHONO-1, 2 to PRE OUT-1, 2	85dB (Vol. −30dB ·
	1kHz · 5.1kΩ shorted)
PHONO-3/MC to PRE OUT-1, 2	85dB (Vol. −30dB ·
	1kHz · 0Ω shorted)
AUX, TUNER, TAPE PB-1, 2 to PRE OUT 1, 2	
	85dB (Vol. −30dB ·
	1kHz·5.1kΩ shorted)
Audio Muting	−20dB
GENERAL	
Power Supply	
U.S.A. and Canadian Model	120V AC, 60Hz
General Model	110/ 120/ 220/ 240V
	AC, 50/60Hz
North European Model	220V, 50Hz
European Model	110/ 120/ 220/ 240V
	AC, 50Hz
British & Australian Models	240V AC, 50Hz
Power Consumption	50W
AC Outlets (General Model only)	
SWITCHED	400W MAX. Total
UNSWITCHED	200W MAX. Total
Dimensions (WxHxD)	435x116x376mm
	(17-1/8")x(4-1/2")x
	(14-3/4")
Weight	
European & General Models	8.7kg (19 lb 3 oz)
Other Area Models	8.6kg (18 lb 15 oz)

Specifications subject to change without notice.

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PARTS LIST

C-4

PRE-AMPLIFIER

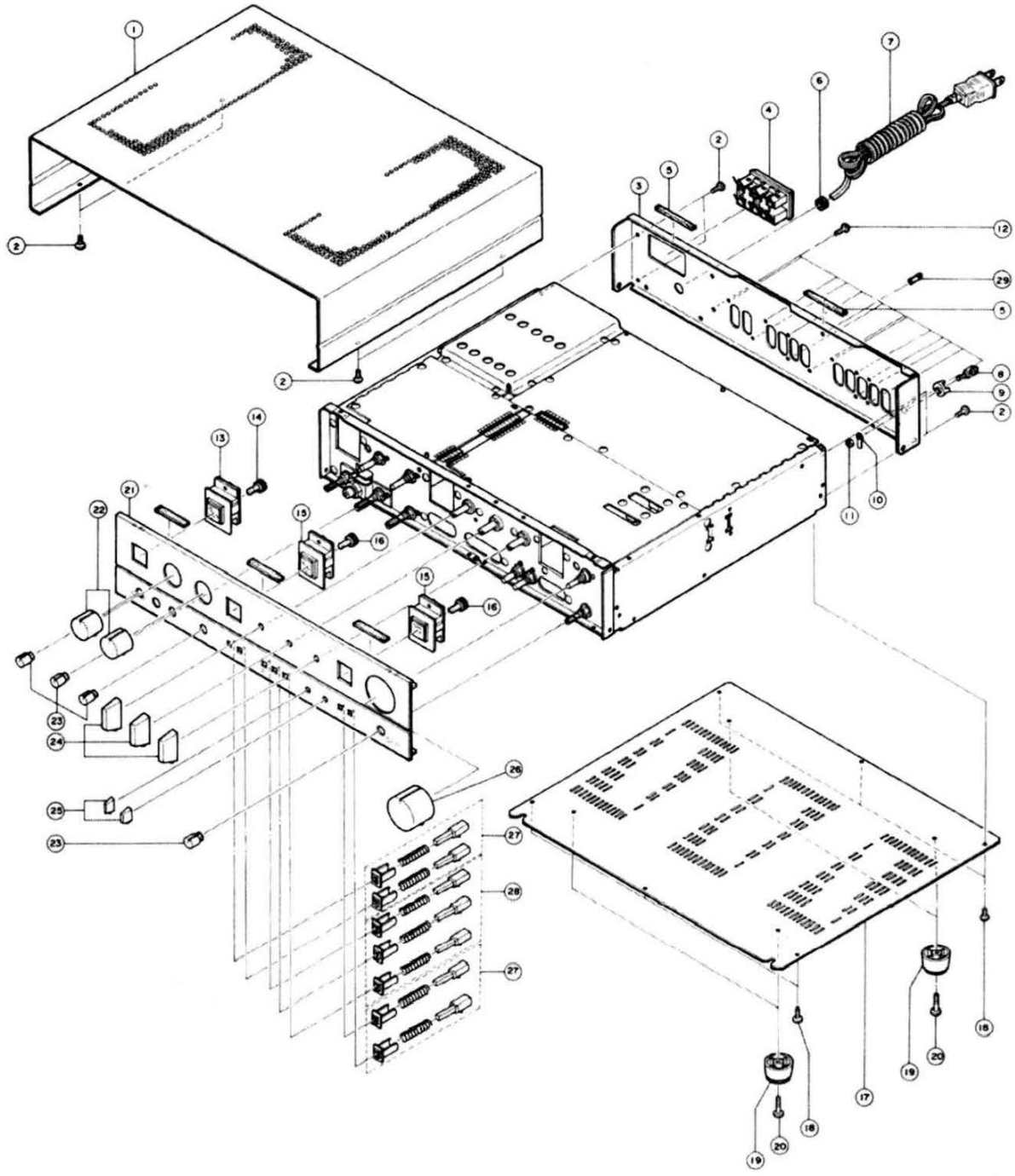
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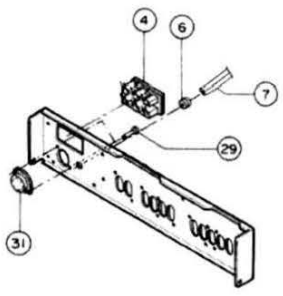
July, '78 T.T Printed in Japan.

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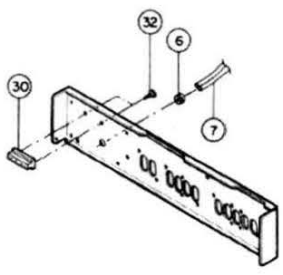
■EXPLODED VIEW(1)/分解図(1)



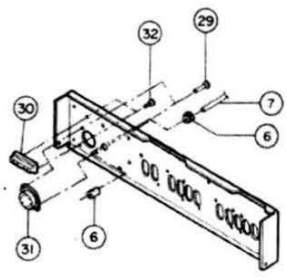
GENERAL MODEL



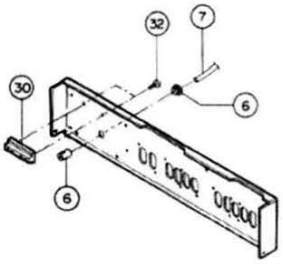
AUSTRALIAN MODEL



EUROPEAN MODEL



NOTH EUROPEAN AND BRITHSH MODEL



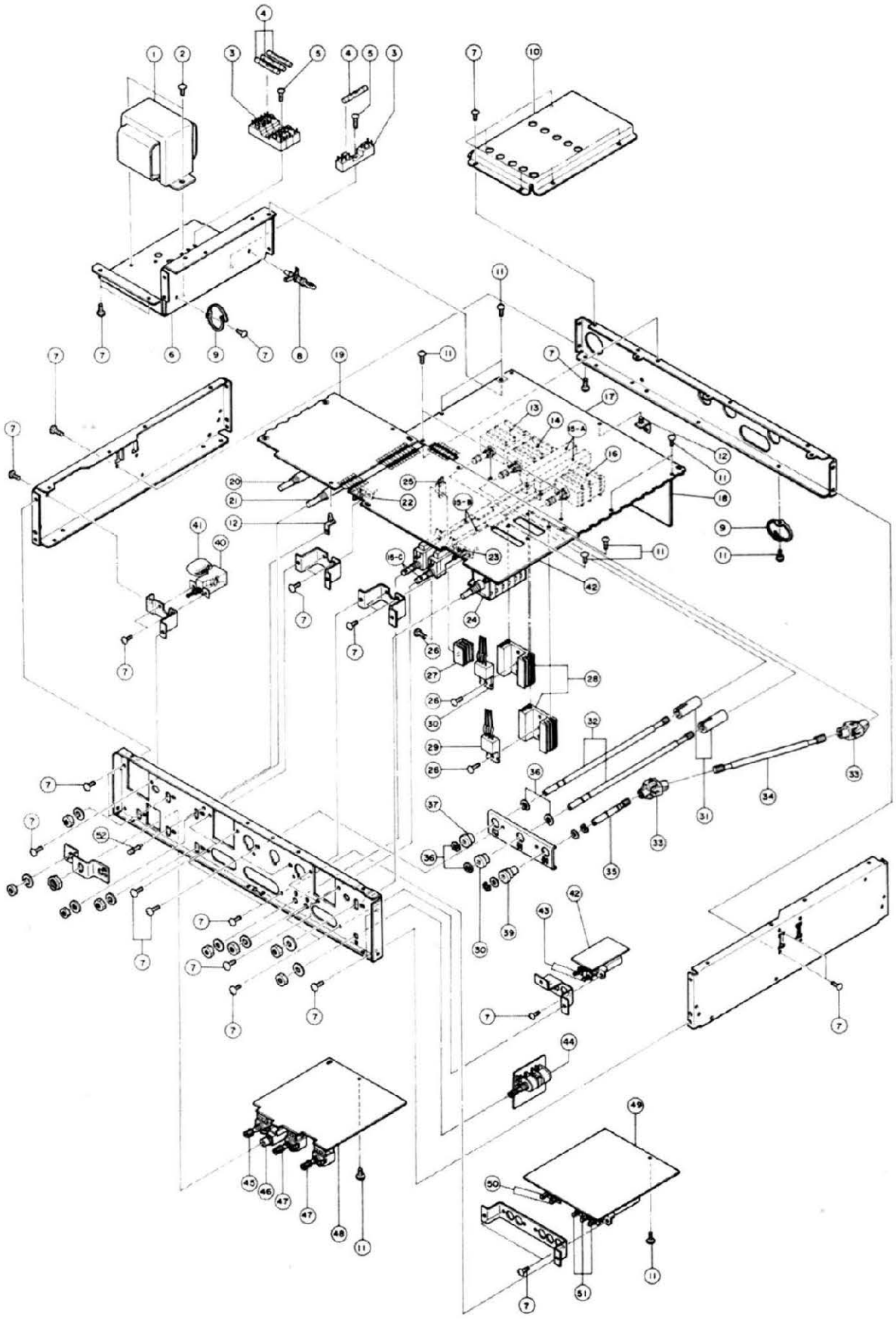
■PARTS LIST/パーツリスト

※ : New Parts

	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
※	1	32 00 00 N B 08 70 30	Top Cover Unit	トップカバーユニット		
	2	42 00 00 E Z 00 08 00	Bonding Head Tapping Screw(3×8) FCM3-B ℓ	鉄ボンディング タッピングネジ 2種ミゾ		
※	3	32 00 00 A A 09 32 90	Rear Panel (J) ♯9329	リアーパネル	J	
※		32 00 00 A A 09 33 00	—do.— (R) ♯9330	〃	R	
※		32 00 00 A A 09 33 10	—do.— (U,C) ♯9331	〃	U,C	
※		32 00 00 A A 09 33 20	—do.— (A) ♯9332	〃	A	
※		32 00 00 A A 09 33 30	—do.— (E) ♯9333	〃	E	
※		32 00 00 A A 09 33 40	—do.— (B) ♯9334	〃	B	
※		32 00 00 A A 09 38 00	—do.— (G) ♯9380	〃	G	
	4	42 00 00 L B 60 18 10	AC Outlets	ACアウトレット 3連	R,U,C	
	5	42 00 00 C B 07 61 70	Tape	防振テープ		
	6	42 00 00 C B 07 27 50	Cord Stopper SR-4N-4	コードストッパー	E,G,B	
		42 00 00 C B 06 86 30	—do.— SR-3P-4	〃	R,U,A,C	
	7	42 00 00 MG 00 06 80	AC Cord (Black) (J) 2.2m	電源コード (黒)	J	
		42 00 00 MG 00 08 40	—do.— (—do.—) (R,U,C)	〃	R,U,C	
		42 00 00 MG 00 08 60	—do.— (Gray) (E,G)	〃	E,G	
		42 00 00 MG 00 07 90	—do.— (Black) (A)	〃	A	
		42 00 00 MZ 07 28 90	AC Cord Ass'y for BS	〃	B	
	8	32 00 00 N B 08 14 80	Terminal Ass'y	ターミナルユニット		
	9	32 00 00 C B 07 81 70	Saucer	受皿		
	10	42 00 00 E V 20 03 00	Flat Washer M3 ZMC2-Y	平座金ミガキ丸		
	11	42 00 00 E V 10 33 00	Hexagonal Nut M3 FCM3-B ℓ	六角ナット		
	12	42 00 00 E i 33 00 80	Bind Head Tapping Screw(3×8) FCM3-B ℓ	鉄バインドタッピングネジ 2種ミゾ		
※	13	32 00 00 N B 08 58 10	Push Button Ass'y (Orange)	プッシュボタンAss'y		
	14	42 00 00 C B 08 41 70	Lamp Cap of Orenge Color	ランプキャップオレンジ		
※	15	32 00 00 N B 08 58 00	Push Button Ass'y (Green)	プッシュボタンAss'y		
	16	42 00 00 C B 08 41 80	Lamp Cap of Green Color	ランプキャップグリーン		
※	17	32 00 00 A A 09 32 40	Bottom Cover ♯9324	ボトムカバー		
	18	42 00 00 E Z 00 08 00	Bonding Head Tapping Screw(3×8) FCM3-B ℓ	鉄ボンディング タッピングネジ 2種ミゾ		
	19	42 00 00 C B 07 94 90	Leg ♯7949	脚		
	20	42 00 00 E i 34 01 60	Bind Head Tapping Screw(4×16) FCM3-B ℓ	鉄バインドタッピングネジ 2種ミゾ		
※	21	32 00 00 N B 08 64 10	Panel Unit	パネルユニット		
※	22	32 00 00 B A 07 36 90	Tone Knob ♯7369	トーンツマミ		
※	23	32 00 00 B A 07 36 20	Min Knob ♯7362	小ツマミ		
	24	32 00 00 B A 06 78 10	Switch Knob ♯6781	SW ツマミ		
※	25	32 00 00 B A 07 36 30	Min Switch Knob ♯7363	SW ツマミ (小)		
※	26	32 00 00 B A 07 36 10	Volume Knob ♯7361	VOL. ツマミ		
※	27	32 00 00 N B 08 63 70	Push Button Ass'y ♯8637	プッシュボタンAss'y		
※	28	32 00 00 N B 08 77 10	—do.— ♯8771	〃		
	29	42 00 00 C B 06 88 80	Plastic Rivet ♯6888	プラスチックリベット		
	30	42 00 00 L A 00 07 60	Lug Terminal 2P CV-2 SH	ラグ端子板	A,E,GB	
※	31	42 00 00 L B 20 14 80	Voltage Selector	電圧切換器	R,E	
	32	42 00 00 E D 33 00 60	Bind Head Screw(3×6) FCM3-B ℓ	鉄バインド小ネジ		

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■EXPLODED VIEW(2)/分解図(2)



■PARTS LIST/パーツリスト

※ : New Parts

	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
※	1	42 00 00 GA 61 71 00	Power Transformer (J)	電源トランス	J	
※		42 00 00 GA 61 72 00	—do.— (R,E)	〃	R,E	
※		42 00 00 GA 61 84 00	—do.— (U,C)	〃	U,C	
※		42 00 00 GA 61 94 00	—do.— (A,B)	〃	A,B	
※		42 00 00 GA 61 95 00	—do.— (G)	〃	G	
	2	42 00 00 EK 31 00 30	Pan Head Sems Type(4×6) FCM3-Bℓ	鉄セムスナベ小ネジ スプリングワッシャー付		
	3	42 00 00 LB 20 13 00	Fuse Holder	ヒューズホルダー	R,U,A,C	
		42 00 00 LB 20 14 70	—do.— (E,G,B)	〃	E,G,B	
	4	42 00 00 KB 00 03 50	Fuse T.2.0A 250V	タイラッシュヒューズ	R,A	
		42 00 00 KB 00 03 30	—do.— T.1.0A 250V	〃	R,A	
		42 00 00 KB 00 07 10	—do.— Ⓢ T.500mA 250V	〃	E,G,B	
		42 00 00 KB 00 07 30	—do.— Ⓢ T.1.0A 250V	〃	E,G,B	
		42 00 00 KB 00 10 20	—do.— UL SS-2 1.0A 250V	〃	U,C	
	5	42 00 00 EN 33 01 00	Pan Head Tapping Screw(3×10)FCM3-Bℓ	鉄ナベタッピングネジ 2種ミゾ		
※	6	32 00 00 AA 09 32 80	Holder for Transformer ♯9328	トランスホルダー		
	7	42 00 00 EZ 00 08 00	Bonding Head Tapping Screw(3×8) FCM3-Bℓ	鉄ボンディングタッピングネジ 2種ミゾ		
	8	32 00 00 CB 08 18 80	P.C.B Holder No.165	P.C.B ホルダー		
	9	32 00 00 AA 06 57 00	Cord Stopper	束線止め		
※	10	32 00 00 AA 09 33 50	Transformer Shield	トランスシールド		
	11	42 00 00 Ei 33 00 80	Bind Head Tapping Screw(3×8) FCM3-Bℓ	鉄バインドタッピングネジ 2種ミゾ		
	12	32 00 00 CB 08 38 40	P. C. B Holder	基板ホルダー		
※	13	42 00 00 KA 50 12 70	Rotaly Switch S.R.A 2-2-6	ロータリーSW		
※	14	42 00 00 KA 50 12 60	—do.— S.R.A 2-4-5	〃		
※	15-A	42 00 00 KA 90 08 60	Slide Switch	スライドスイッチ		
※	15-B	42 00 00 KA 90 08 70	Remote Switch (Wire)	リモートスイッチ(ワイヤー部)		
※	15-C	42 00 00 KA 90 08 80	—do.— (Operate)	〃 (操作部)		
※	16	42 00 00 KA 50 12 80	Rotaly Switch S.R.A 2-4-3	ロータリーSW		
※	17	32 00 00 NA 07 14 90	Function C. Board	ファンクションシート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 00	—do.— (U)	〃	U	
※	18	32 00 00 NA 07 14 80	Pin Jack C.Board	ピンジャックシート		
※	19	32 00 00 NA 07 15 30	Power C.Board	電源シート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 40	—do.— (U)	〃	U	
※	20	42 00 00 HS 31 03 30	Variable Resistor 10KΩ	ボリューム2連		
※	21	42 00 00 HS 31 03 30	—do.— 10KΩ	〃		
	22	42 00 00 KA 80 04 70	Push Switch SUF1-6	プッシュスイッチ		
	23	42 00 00 KA 80 08 70	—do.— SUF1-4	〃		
※	24	42 00 00 HY 00 07 10	Variable Resistor 4.7K×2 2.2K×2	ボリューム		
	25	42 00 00 iB 05 66 20	Transistor 2SB566AS(B,C,D)	トランジスター		
	26	42 00 00 ED 33 00 60	Bind Head Screw (3×6) FCM3-Bℓ	鉄バインド小ネジ		
※	27	42 00 00 BA 07 28 30	Heat Sink IC1625-ST	放熱器		
※	28	32 00 00 BA 07 36 00	—do.— ♯7360	〃		
	29	42 00 00 iC 20 88 00	Transistor 2SC2088GR or BL	トランジスター		
	30	42 00 00 iA 09 41 00	—do.— 2SA941GR or BL	〃		
	31	32 00 00 CB 08 40 80	Joint	ジョイント		
※	32	32 00 00 BA 07 36 40	Extention Shaft	延長シャフト		

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※ : New Parts

	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
	33	32 00 00 CB 07 79 40	Joint	ジョイント		
	34	32 00 00 BA 06 97 20	Extention Shaft	延長シャフト		
※	35	32 00 00 NB 08 58 80	Shaft Unit	シャフトユニット		
	36	42 00 00 EV 50 15 00	E Ring φ5	Eリング		
	37	32 00 00 CB 08 40 90	Limiter for Switch	SWリミッター		
	38	32 00 00 CB 07 93 90	—do.—	〃		
※	39	32 00 00 CB 08 71 70	—do.—	〃		
※	40	42 00 00 KA 80 08 90	Push Switch	プッシュスイッチ	J	
※		42 00 00 KA 80 05 00	—do.— (U,C) SDG1P	〃	U,C	
		42 00 00 KA 80 05 10	—do.— (R,A,E,G,B) SDG5PE	〃	R,A,E,G,B	
	41	42 00 00 FZ 00 09 70	Ceramic Capacitor AC150V, 0.01	セラミックコン	J	
		42 00 00 FZ 00 01 10	Spark Suppressor Capacitor (U) AC125V, 0.033+120	スパークキラーコン	U	
		42 00 00 FZ 00 05 40	—do.— (R) DC500V/AC350V, 0.033+120	〃	R	
		42 00 00 FZ 00 06 90	—do.— (E,G,B) AC250V, 0.022	〃	E,G,B	
		42 00 00 FZ 00 11 20	—do.— (C) AC125V, 0.033+120	〃	C	
※	42	32 00 00 NA 07 15 10	Flat Amp. C.Board	フラットアンプシート	R,A,E,G,C,B	
		32 00 00 NA 07 15 20	—do.— (U)	〃	U	
	43	42 00 00 KA 80 08 30	Push Switch	プッシュスイッチ		
※	44	42 00 00 HS 31 03 10	Variable Resistor 10KΩ×2	ボリューム		
※	45	42 00 00 HS 31 03 20	—do.— 10KΩ×2	〃		
※	46	42 00 00 LB 30 08 30	Phone Jack	ホーンジャック		
※	47	42 00 00 HS 31 03 40	Variable Resistor 20KΩ×2	ボリューム		
※	48	32 00 00 NA 07 15 50	Headphone Amp. C.Board	ヘッドホンアンプシート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 60	—do.— (U)	〃	U	
※	49	32 00 00 NA 07 15 70	Switch C.Board	スイッチシート	R,A,E,G,C,B	
※		32 00 00 NA 07 16 90	—do.— (U)	〃	U	
※	50	42 00 00 KA 80 08 10	Push Switch SUF2-6	プッシュスイッチ		
※	51	42 00 00 KA 80 08 20	—do.— SUF3-6	〃		
	52	32 00 00 CB 06 88 80	Plastic Rivet	プラスチックリベット		

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※ : New Parts

	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
※		32 00 00 NA 07 14 80	Pin Jack C.Board	ピンジャックシート		
※	C101	42 00 00 F G 24 42 20	Ceramic Capacitor 0.022μF/50V	セラコン		
※	PJ102	42 00 00 L B 20 14 60	Pin Jack 2P	ピンジャック基板型		
※	PJ103 \ PJ106	42 00 00 L B 40 04 00	—do.— T-5593 4P	〃		
※	PJ101	42 00 00 L B 40 04 90	—do.— 4P	〃		
	R101 \ R104	42 00 00 HK 15 74 70	Carbon Resistor FCR25 47KΩ	カーボン抵抗		
	R111 \ R118	42 00 00 HK 15 92 20	—do.— 2.2MΩ	〃		
		42 00 00 L B 30 04 70	Connect Pin L Type 3P 2373-03A	L型コネクトピン		
※		42 00 00 L B 50 03 00	—do.— 5P 2373-05A	〃		
※		42 00 00 L B 60 25 30	Miniature Connect Pin 9P 5046-09A	L型ミニチュア コネクトコンピン		
※		32 00 00 NA 07 14 90	Function C.Board	ファンクションシート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 00	—do.— (U)	〃	U	
	C189 C190	42 00 00 F A 11 32 20	Mylar Capacitor 0.0022μF/50V	マイラーコン		
	C143 C144	42 00 00 F A 11 32 20	—do.— 0.0022μF/50V	〃		
	C155 C156	42 00 00 F A 11 41 00	—do.— 0.01μF/50V	〃		
	C153 C154	42 00 00 F A 15 31 00	—do.— 0.001μF/50V	〃		
	C165 C166	42 00 00 F A 15 38 20	—do.— 0.0082μF/50V	〃		
	C119 C200	42 00 00 F A 11 31 00	—do.— 0.001μF/50V	〃		
	C203 C204	42 00 00 F A 11 31 00	—do.— 0.001μF/50V	〃		
	C179 C180	42 00 00 F C 12 61 00	MM Capacitor 1μF/100V	メタライズドポリエステル フィルムコン		
	C161 C162	42 00 00 F C 10 61 00	MM Capacitor 1μF/100V	MMコン		
	C167 C168	42 00 00 F D 15 22 20	Polystyrene Capacitor 220μF/50V	スチコンタテ型		
	C133 C134	42 00 00 F D 15 14 70	—do.— 47pF/50V	〃		
※	C137 C138	42 00 00 F D 15 21 50	—do.— 150pF/50V	〃		
※	C139 C140	42 00 00 F D 15 22 70	—do.— 270pF/50V	〃		
※	C141 C142	42 00 00 F D 15 23 90	—do.— 390pF/50V	〃		
※	C145 C146	42 00 00 F F 06 11 00	—do.— 10pF/125V	〃		
※	C171 C172	42 00 00 F F 06 11 00	—do.— 10pF/125V	〃		
※	C187 C188	42 00 00 F F 06 21 00	—do.— 100pF/125V	〃		
※	C135 C136	42 00 00 F D 15 18 20	—do.— 82pF/50V	〃		
	C169 C170	42 00 00 F D 15 21 00	—do.— 100pF/50V	〃		
	C197 C198	42 00 00 F D 15 21 00	—do.— 100pF/50V	〃		
	C201 C202	42 00 00 F D 15 21 00	—do.— 100pF/50V	〃		
	C173 C174	42 00 00 F J 11 73 30	Electrolytic Capacitior 33μF/6.3V	ケミコンタテ型		
	C175 C176	42 00 00 F J 21 81 00	—do.— 100μF/6.3V	〃		
	C129 \ C132	42 00 00 F J 12 91 00	—do.— 1000μF/10V	〃		
※	C181 \ C184	42 00 00 F J 26 61 00	—do.— 1μF/50V	〃		
※	C157 \ C160	42 00 00 F Z 00 14 50	—do.— 1μF/80V	〃		
	C125 \ C128	42 00 00 F Z 00 12 50	—do.— 47μF/6.3V	〃		
	C121 \ C124	42 00 00 F Z 00 12 60	—do.— 220μF/6.3V	〃		
	C147 C148	42 00 00 F M 10 81 00	By-Polar Capacitor 100μF/6.3V	B.Pコン		
	C185 C186	42 00 00 F M 11 61 00	—do.— 1μF/50V	〃		
	C177 C178	42 00 00 F M 59 74 70	—do,— 47μF/25V	〃		
	C163 C164	42 00 00 F M 11 74 70	By-Polar Electrolytic Cap. 47μF/50V	B.Pケミコン		

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※ : New Parts

	Ref. No.	Part No.	Description		(部 品 名)	Markets	Remarks
	C149 C150	42 00 00 F T 17 41 50	Electrolytic Capacitor	0.015μF/100V	ポリプロピレンフィルムコン		
	C151 C152	42 00 00 F T 17 45 60	—do.—	0.056μF/100V	〃		
※	C191 C192	42 00 00 F T 17 31 50	—do.—	0.0015μF/100V	〃		
※	C193 C194	42 00 00 F T 17 35 60	—do.—	0.0056μF/100V	〃		
	R127 \ R142	42 00 00 HK 15 41 00	Carbon Resistor FCR25	10Ω	カーボン抵抗		
	R225 \ R228	42 00 00 HK 15 44 70	—do.—	47Ω	〃		
	R229 R230	42 00 00 HK 15 45 60	Carbon Resistor	56Ω	〃		
	R183 R184	42 00 00 HK 15 46 80	—do.—	68Ω	〃		
	R275 R276	42 00 00 HK 15 46 80	—do.—	68Ω	〃		
	R223 R224	42 00 00 HK 15 48 20	—do.—	82Ω	〃		
	R169 R170	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R185 \ R188	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R219 R220	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R247 R248	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R251 R252	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R261 \ R264	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R296	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R237 R238	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R265 \ R268	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R295	42 00 00 HJ 15 52 20	—do.— R25	220Ω	〃		
	R221 R222	42 00 00 HK 15 54 70	—do.— FCR25	470Ω	〃		
	R153 \ R168	42 00 00 HK 15 58 20	—do.—	820Ω	〃		
	R181 R182	42 00 00 HK 15 51 00	—do.—	100Ω	〃		
	R151 R152	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R121 R122	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R280 \ R284	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R257 R258	42 00 00 HK 15 61 20	—do.—	1.2KΩ	〃		
	R203 \ R206	42 00 00 HK 15 61 50	—do.—	1.5KΩ	〃		
	R239 R240	42 00 00 HK 15 61 50	—do.—	1.5KΩ	〃		
	R249 R250	42 00 00 HK 15 61 50	—do.—	1.5KΩ	〃		
	R125 R126	42 00 00 HK 15 61 80	—do.—	1.8KΩ	〃		
	R211 R212	42 00 00 HK 15 62 70	—do.— FCR25	2.7KΩ	〃		
	R269 R270	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R197 \ R200	42 00 00 HK 15 63 90	—do.—	3.9KΩ	〃		
	R123 R124	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R143 \ R146	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R213 R214	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R243 R244	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R271 R272	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R191 \ R194	42 00 00 HK 15 66 80	—do.—	6.8KΩ	〃		
	R195 R196	42 00 00 HK 15 68 20	—do.—	8.2KΩ	〃		
	R233 R234	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R273 R274	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R285 R286	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R189 R190	42 00 00 HK 15 73 30	—do.— FCR25	33KΩ	〃		

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※ : New Parts

	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
	R253 R254	42 00 00 HK 15 73 30	Carbon Resistor FCR25 33KΩ	カーボン抵抗		
	R235 R236	42 00 00 HK 15 74 70	—do.— 47KΩ	〃		
	R215 R216	42 00 00 HK 15 75 60	—do.— 56KΩ	〃		
	R241 R242	42 00 00 HK 15 75 60	—do.— 56KΩ	〃		
	R245 R246	42 00 00 HK 15 75 60	—do.— 56KΩ	〃		
	R259 R260	42 00 00 HK 15 75 60	—do.— 56KΩ	〃		
	R179	42 00 00 HK 15 91 00	—do.— 1MΩ	〃		
	R255 R256	42 00 00 HK 15 81 00	—do.— 100KΩ	〃		
	R231 R232	42 00 00 HK 15 51 80	—do.— 180Ω	〃		
	R171 R172	42 00 00 HK 55 51 00	—do.— ELS25 100Ω	〃		
	R173 R174	42 00 00 HK 55 84 70	—do.— 470KΩ	〃		
	R175 R176	42 00 00 HK 55 91 00	—do.— ELS25 1MΩ	〃		
	R180	42 00 00 HK 55 91 00	—do.— 1MΩ	〃		
	R177 R178	42 00 00 HK 55 92 20	—do.— 2.2MΩ	〃		
	R287 R294	42 00 00 HK 55 92 20	—do.— 2.2MΩ	〃		
※	R201 R202	42 00 00 HU 07 51 00	Metal Film Resistor RE35 100Ω	金属被膜抵抗		
	R207 R208	42 00 00 HU 07 64 70	—do.— 4.7KΩ	〃		
	R209 R210	42 00 00 HU 07 75 60	—do.— 56KΩ	〃		
	R277 R278	42 00 00 HU 07 74 70	—do.— 47KΩ	〃		
※	R279 R280	42 00 00 HU 87 85 60	—do.— RP42A 560KΩ	〃		
	R147 R150	42 00 00 HU 87 51 10	—do.— 110Ω	〃		
	VR121 VR122	42 00 00 HT 41 00 10	Variable Resistor 10KR B220Ω	ソリッド VR		
	VR123 VR124	42 00 00 HT 41 00 40	—do.— B4.7KΩ	〃		
	Tr 167 Tr 170	42 00 00 i A 06 73 10	Transistor 2SA673A	トランジスター		
	Tr 195 Tr 196	42 00 00 i A 06 73 10	—do.— 2SA673A	〃		
	Tr 199 Tr 202	42 00 00 i A 06 73 10	—do.— 2SA673A	〃		
	Tr 177 Tr 180	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
※	Tr 159 Tr 166	42 00 00 i B 07 37 00	—do.— 2SB737	〃		
	Tr 197 Tr 198	42 00 00 i C 12 13 10	—do.— 2SC1213A	〃		
	Tr 171 Tr 174	42 00 00 i C 20 88 00	—do.— 2SC2088	〃		
	Tr 185 Tr 188	42 00 00 i C 20 88 00	—do.— 2SC2088	〃		
	Tr 203 Tr 206	42 00 00 i C 20 88 00	—do.— 2SC2088	〃		
※	Tr 151 Tr 158	42 00 00 i C 23 00 00	—do.— 2SC2300	〃		
	Tr 189 Tr 190	42 00 00 i E 10 05 50	FET 2SK68A	FET		
※	Tr 175 Tr 176	32 00 00 i E 10 11 40	—do.— 2SK100	〃		
※	Tr 191 Tr 192	42 00 00 i B 06 49 00	Transistor 2SB649	トランジスター		
※	Tr 193 Tr 194	42 00 00 i D 06 69 00	—do.— 2SD669	〃		
	Tr 183 Tr 184	42 00 00 i A 09 14 50	Pair Transistor 2SA914 Q,R,S,T	ペアトランジスター		
	Tr 181 TR182	42 00 00 i C 19 53 50	—do.— 2SC1953 Q,R,S,T	〃		
	D125	42 00 00 i F 00 00 40	Diode 1S1555	ダイオード		
	D121 D122	42 00 00 i F 00 05 70	Zener Diode HZ6C	ツェナーダイオード		
	D127 D128	42 00 00 i F 00 07 70	Varistor VD1212	バリスター		
※	SW123	42 00 00 KA 50 12 60	Rotaly Switch SRA 2-4-5	ロータリーSW		
※	SW122	42 00 00 KA 50 12 70	—do.— 2-2-6	〃		
※	SW121	42 00 00 KA 50 12 80	—do.— 2-4-3	〃		

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※ : New Parts

	Ref. No.	Part No.	Description		(部 品 名)	Markets	Remarks
※	SW124 SW125	42 00 00 KA 90 08 60	Slide Switch	6-5	スライド SW		
	RY121 RY122	42 00 00 KC 00 03 00	Read Relay	RL6442-H132	リードリレー		
		42 00 00 LB 10 01 10	Connect Pin		ダイヤモンドコネクターピン		
		42 00 00 CB 08 38 40	Holder for C.Board	♯8384	基板ホルダー		
※		32 00 00 CB 08 17 00	Clip	♯8170	クリップ		
※		32 00 00 NA 07 15 10	Flat Amp. C.Board		フラットアンプシート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 20	—do.—	(U)	〃	U	
	C307 C308	42 00 00 FC 10 61 00	Capacitor	1μF/100V	MMコン		
※	C303 C306	42 00 00 FF 06 11 50	Polystyrene Capacitor	15pF/125V	スチコンタテ型		
	C329 C330	42 00 00 FD 15 14 70	—do.—	47pF/50V	〃		
	C333 C334	42 00 00 FD 15 22 20	—do.—	220pF/50V	〃		
	C319 C320	42 00 00 FG 14 31 00	Ceramic Capacitor	0.001μF/50V	セラコン		
	C312	42 00 00 FZ 00 09 00	Electrolytic Capacitor	2.2μF/50V	ケミコンMS		
※	C331	42 00 00 FJ 24 64 70	—do.—	4.7μF/25V	ケミコンタテ型		
※	C315 C316	42 00 00 FJ 24 62 20	—do.—	2.2μF/25V	〃		
	C323 C324	42 00 00 FZ 00 13 70	—do.—	47μF/35V	〃		
※	C311	42 00 00 FZ 00 14 50	—do.—	1μF/80V	〃		
※	C315	42 00 00 FZ 00 14 50	—do.—	1μF/80V	〃		
※	C317 C318	42 00 00 FJ 26 81 00	—do.—	100μF/50V	〃		
※	C321	42 00 00 FJ 25 74 70	—do.—	47μF/35V	〃		
	C327 C328	42 00 00 FA 11 41 00	Mylar Capacitor	0.01μF	マイラーコン		
※	C309 C310	42 00 00 FM 59 82 20	By-Polar Capacitor	220μF/25V	B.Pコン		
※	C313	42 00 00 FM 63 73 30	Z Capacitor ±10%	33μF/16V	Z コン		
	R391 R392	42 00 00 HK 15 54 70	Carbon Resistor	FCR25 470Ω	カーボン抵抗		
	R355 R362	42 00 00 HK 15 35 60	—do.—	5.6Ω	〃		
	R333 R336	42 00 00 HK 15 44 70	—do.—	47Ω	〃		
	R341 R342	42 00 00 HK 15 44 70	—do.—	47Ω	〃		
	R383 R384	42 00 00 HK 15 51 00	—do.—	100Ω	〃		
	R307 R308	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R311 R312	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R327 R328	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R331 R332	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R305 R306	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R317 R318	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R329 R330	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R363 R364	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R369 R370	42 00 00 HK 15 52 20	—do.—	220Ω	〃		
	R339 R340	42 00 00 HK 15 52 70	—do.—	270Ω	〃		
	R323 R324	42 00 00 HK 15 53 90	—do.—	390Ω	〃		
	R379	42 00 00 HK 15 61 20	—do.—	1.2KΩ	〃		
	R315 R316	42 00 00 HK 15 61 80	—do.—	1.8KΩ	〃		
	R313 R314	42 00 00 HK 15 62 20	—do.—	2.2KΩ	〃		
	R337 R338	42 00 00 HK 15 62 20	—do.—	2.2KΩ	〃		
	R350	42 00 00 HK 15 62 20	—do.—	2.2KΩ	〃		

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※ : New Parts

	Ref. No.	Part No.	Description		(部 品 名)	Markets	Remarks
	R353 R354	42 00 00 H K 15 62 20	Carbon Resistor	2.2KΩ	カーボン抵抗		
	R321 R322	42 00 00 H K 15 62 70	—do.—	2.7KΩ	〃		
	R371 R372	42 00 00 H K 15 63 90	—do.—	3.9KΩ	〃		
	R373 R374	42 00 00 H K 15 64 70	—do.—	4.7KΩ	〃		
	R385 R386	42 00 00 H K 15 64 70	—do.—	4.7KΩ	〃		
	R377	42 00 00 H K 15 64 70	—do.—	4.7KΩ	〃		
	R347	*2 00 00 H K 15 65 60	—do.—	5.6KΩ	〃		
	R381 R382	42 00 00 H K 15 68 20	—do.—	8.2KΩ	〃		
	R325 R326	42 00 00 H K 15 71 00	—do.—	10KΩ	〃		
	R365 R368	42 00 00 H K 15 71 00	—do.—	10KΩ	〃		
	R375	42 00 00 H K 15 71 00	—do.—	10KΩ	〃		
	R319 R320	42 00 00 H K 15 73 30	—do.—	33KΩ	〃		
	R352	42 00 00 H K 15 81 00	—do.—	100KΩ	〃		
	R303 R304	42 00 00 H K 15 82 20	—do.—	220KΩ	〃		
※	R301 R302	42 00 00 H U 07 53 90	Metal Film Resistor RE35	390Ω	金属被膜抵抗		
	R387	42 00 00 H K 15 36 80	Carbon Resistor FCR25	6.8Ω	カーボン抵抗		
	R389 R390	42 00 00 H K 15 71 20	—do.—	12KΩ	〃		
	R351	42 00 00 H K 15 81 80	—do.—	180KΩ	〃		
※	VR301	42 00 00 H S 31 03 10	Variable Resistor	10KΩ×2	ボリューム		
	VR304	42 00 00 H T 41 00 10	—do.— 10KR	B220Ω	ソリッドVR		
※	VR302	42 00 00 H Y 00 07 10	—do.—	4.7KΩ×2 2.2KΩ×2	ボリューム		
		42 00 00 L A 00 21 10	Wire Lapping Terminal	P=5 2P	I型ラッピング端子板		
		42 00 00 J B 00 06 10	Pilot Lamp	14.5V80mA	パイロットランプリード式		
※		42 00 00 L B 30 08 10	Miniature Connect Pin	3P	ミニチュアコネクトコンピン		
		42 00 00 L B 60 10 00	—do.—	7P	〃		
※		42 00 00 L B 60 25 70	—do.—	9P	〃		
※		42 00 00 L B 60 25 30	—do.— (L Type)	9P	〃 L型		
※		42 00 00 B A 07 28 30	Heat Sink	IC1625-ST	放熱器		
※		32 00 00 B A 07 36 00	—do.—	#7360	〃		
		42 00 00 Mi 06 66 90	Flat Wire	3-120-2.5	フラット線		
		42 00 00 Mi 06 67 70	—do.—	4-100-2.5	〃		
		42 00 00 Mi 06 68 60	—do.—	5-100-2.5	〃		
		42 00 00 Mi 06 69 50	—do.—	7-100-2.5	〃		
		42 00 00 Mi 06 69 30	—do.—	7-60-2.5	〃		
※		32 00 00 N A 07 15 30	Power C.Board		電源シート	R,A,E,G,C,B	
※		32 00 00 N A 07 15 40	—do.— (U)		〃	U	
	C515 C516	42 00 00 F A 11 31 00	Mylar Capacitor	0.001μF/50V	マイラーコン		
	C507 C508	42 00 00 F H 61 06 00	Ceramic Capacitor	6pF/500V	セラコン		
	C505 C506	42 00 00 F G 21 11 00	—do.—	10pF/50V	〃		
	C517 C518	42 00 00 F G 21 14 70	—do.—	47pF/50V	〃		
	C509 C510	42 00 00 F G 21 21 00	—do.—	100pF/50V	〃		
	C522 C529	42 00 00 F H 23 41 00	—do.—	0.01μF/500V	〃		
	C530	42 00 00 F G 24 42 20	—do.—	0.022μF/50V	〃		
	C511 C512	42 00 00 F J 24 64 70	Electrolytic Capacitor	4.7μF/25V	ケミコンタテ型		

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※ : New Parts

	Ref. No.	Part No.	Description		(部 品 名)	Markets	Remarks
	C519	42 00 00 F J 14 91 00	Electrolytic Capacitor	1000μF/25V	ケミコンタテ型		
	C501 C502	42 00 00 F J 26 61 00	—do.—	1μF/50V	〃		
	C520 C521	42 00 00 F J 26 84 70	—do.—	470μF/50V	〃		
	C513 C514	42 00 00 F J 21 82 20	—do.—	220μF/6.3V	〃		
	C503 C504	42 00 00 F M 09 71 00	By-Polar Capacitor	10μF/16V	B.Pコン		
	R505 R506	42 00 00 HK 15 51 50	Carbon Resistor FCR25	150Ω	カーボン抵抗		
	R511 R512	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R519 R520	42 00 00 HK 15 53 30	—do.—	330Ω	〃		
	R521 R524	42 00 00 HK 15 54 70	—do.—	470Ω	〃		
	R507 R508	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R515 R516	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R525	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R509 R510	42 00 00 HK 15 71 20	—do.—	12KΩ	〃		
	R513 R514	42 00 00 HK 15 71 20	—do.—	12KΩ	〃		
	R501 R502	42 00 00 HK 15 71 50	—do.—	15KΩ	〃		
	R503 R504	42 00 00 HK 15 73 30	—do.—	33KΩ	〃		
	R517 R518	42 00 00 HK 15 81 80	—do.—	180KΩ	〃		
	Tr503 Tr508	42 00 00 i A 09 41 00	Transistor	2SA941	トランジスター		
	Tr511 Tr514	42 00 00 i C 04 58 80	—do.—	2SC458	〃		
	Tr501 Tr502	42 00 00 i C 20 88 00	—do.—	2SC2088	〃		
	Tr509 Tr510	42 00 00 i C 20 88 00	—do.—	2SC2088	〃		
	D507	42 00 00 i H 00 02 40	Diode	1S1885	ダイオード		
	D508 D509	42 00 00 i H 00 04 70	—do.—	1D4B-1	〃		
	D503 D504	42 00 00 i F 00 03 50	Zener Diode	WZ130	ツェナーダイオード		
※	VR501 VR502	42 00 00 HS 31 03 30	Variable Resistor	10KΩ×2	ボリューム2連		
		42 00 00 L A 00 21 10	Lapping Pin I Type	P=5 2P	I型ラッピング端子板		
		42 00 00 L A 00 20 40	—do.—	P=5 5P	〃		
		32 00 00 BB 06 64 30	Shield Plate	#6643	シールド板		
		42 00 00 CB 08 38 40	P.C.B Holder	#8384	基板ホルダー		
※		32 00 00 NA 07 15 50	Head Phone Amp. C.Board		ヘッドホンアンプシート	R,A,E,G,C,B	
※		32 00 00 NA 07 15 60	—do.—	(U)	〃	U	
	C659 C660	42 00 00 F A 11 31 00	Mylar Capacitor	0.001μF/50V	マイラーコン		
	C619 C620	42 00 00 F A 15 31 80	—do.—	0.0018μF/50V	〃		
	C605 C606	42 00 00 F A 15 52 20	—do.—	0.22μF/50V	〃		
	C666 C668	42 00 00 F G 24 42 20	Ceramic Capacitor	0.022μF/50V	セラコン		
	C663 C665	42 00 00 F G 24 42 20	—do.—	0.022μF/50V	〃		
	C603 C604	42 00 00 F G 21 21 00	—do.—	100pF/50V	〃		
	C609 C610	42 00 00 F G 21 21 00	—do.—	100pF/50V	〃		
	C615 C616	42 00 00 F G 21 21 00	—do.—	100pF/50V	〃		
	C621 C622	42 00 00 F G 21 21 00	—do.—	100pF/50V	〃		
	C629 C630	42 00 00 F A 11 31 00	Mylar Capacitor	0.001μF/50V	マイラーコン		
	C633 C634	42 00 00 F G 21 06 00	Ceramic Capacitor	6pF/50V	セラコン		
	C657 C658	42 00 00 F H 61 11 00	—do.—	10pF/50V	〃		
	C601 C602	42 00 00 F J 21 74 70	Electrolytic Capacitor	47μF/6.3V	ケミコンタテ型		

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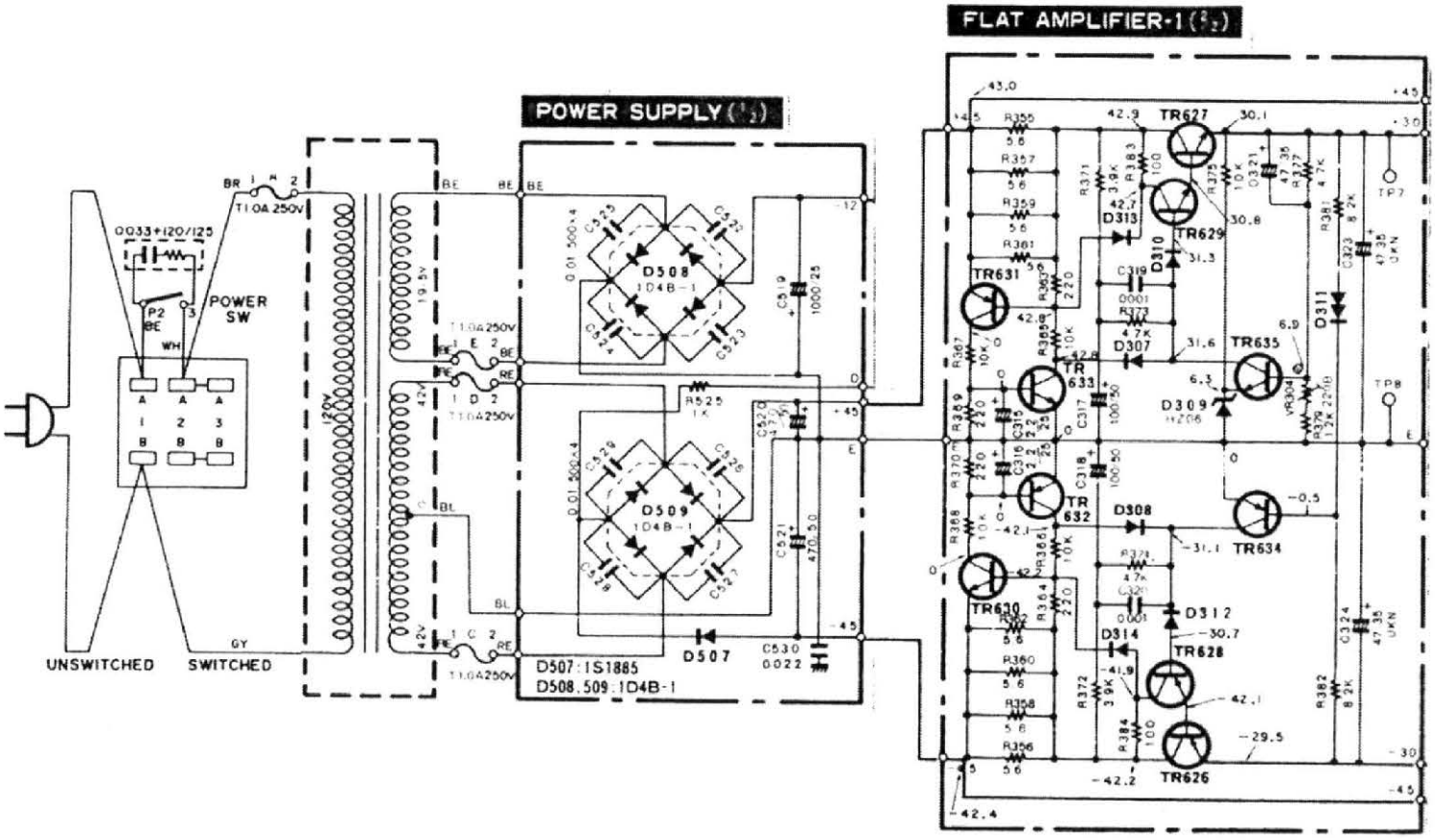
	Ref. No.	Part No.	Description		(部 品 名)	Markets	Remarks
	C613 C614	42 00 00 F J 21 74 70	Electrolytic Capacitor	47μF/6.3V	ケミコンタテ型		
	C631 C632	42 00 00 F J 21 82 20	—do.—	220μF/6.3V	〃		
	C607 C608	42 00 00 F J 23 81 00	—do.—	100μF/16V	〃		
	C611 C612	42 00 00 F J 23 81 00	—do.—	100μF/16V	〃		
	C617 C618	42 00 00 F J 23 81 00	—do.—	100μF/16V	〃		
	C623 C624	42 00 00 F J 23 81 00	—do.—	100μF/16V	〃		
	C655 C656	42 00 00 F J 24 74 70	—do.—	47μF/25V	〃		
	C627 C628	42 00 00 F J 25 71 00	—do.—	10μF/35V	〃		
	C625 C626	42 00 00 F J 26 61 00	—do.—	1μF/50V	〃		
	C661 C662	42 00 00 F J 26 61 00	—do.—	1μF/50V	〃		
	R605 R606	42 00 00 HK 15 51 00	Carbon Resistor	FCR25 100Ω	カーボン抵抗		
	R627 R628	42 00 00 HK 15 51 00	—do.—	100Ω	〃		
	R645 R646	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R665 R666	42 00 00 HK 15 51 50	—do.—	150Ω	〃		
	R651 R652	42 00 00 HK 15 54 70	—do.—	470Ω	〃		
	R655 R656	42 00 00 HK 15 54 70	—do.—	470Ω	〃		
	R603 R604	42 00 00 HK 15 58 20	—do.—	820Ω	〃		
	R625 R626	42 00 00 HK 15 58 20	—do.—	820Ω	〃		
	R663 R664	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R649 R650	42 00 00 HK 15 61 00	—do.—	1KΩ	〃		
	R607 R608	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R615 R616	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R629 R630	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R639 R640	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R659 R660	42 00 00 HK 15 63 30	—do.—	3.3KΩ	〃		
	R661 R662	42 00 00 HK 15 63 90	—do.—	3.9KΩ	〃		
	R609 R610	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R621 R622	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R631 R632	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R643 R644	42 00 00 HK 15 64 70	—do.—	4.7KΩ	〃		
	R611 R612	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R619 R620	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R633 R634	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R641 R642	42 00 00 HK 15 65 60	—do.—	5.6KΩ	〃		
	R613 R614	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R617 R618	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R635 R638	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R647 R648	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R657 R658	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R668	42 00 00 HK 15 71 00	—do.—	10KΩ	〃		
	R653 R654	42 00 00 HK 15 73 30	—do.—	33KΩ	〃		
	R601 R602	42 00 00 HK 15 91 00	—do.—	1MΩ	〃		
	R623 R624	42 00 00 HK 15 91 00	—do.—	1MΩ	〃		
	R669 R670	42 00 00 HM 52 53 30	Cement Molded Resistor	MO-4R 2P 330Ω	セメント抵抗		
※	VR603	42 00 00 HS 31 03 20	Variable Resistor	10KΩ	ボリューム2連		

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	Ref. No.	Part No.	Description	(部 品 名)	Markets	Remarks
*	VR601 VR602	42 00 00 HS 31 03 40	—do.— 20KΩ	〃		
	FR601 FR604	42 00 00 HW 19 43 30	Fuse Resistor J,R,A,E G,C,B 85mA 33Ω	ヒューズ抵抗	J,R,A E,G,C,B	
		42 00 00 HW 29 43 30	—do.— (U) 85mA 33Ω	〃	U	
*	FR605 FR606	42 00 00 HW 19 51 80	—do.— J,R,A,E G,C,B 37mA 180Ω	〃	J,R,A,E G,C,B	
*		42 00 00 HW 29 51 80	—do.— (U) 37mA 180Ω	〃	U	
	Tr 627 Tr 628	42 00 00 i A 07 77 30	Transistor 2SA777	トランジスター		
	Tr 603 Tr 604	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 607 Tr 608	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 611 Tr 612	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 615 Tr 616	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 617 Tr 618	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 623 Tr 624	42 00 00 i A 09 41 00	—do.— 2SA941	〃		
	Tr 631 Tr 632	42 00 00 i C 15 09 30	—do.— 2SC1509	〃		
	Tr 619 Tr 622	42 00 00 i C 04 58 80	—do.— 2SC458	〃		
*	Tr 633 Tr 634	42 00 00 i D 06 69 00	—do.— 2SD699	〃		
	Tr 601 Tr 602	42 00 00 i E 10 05 50	FET 2SK68A	FET		
	Tr 605 Tr 606	42 00 00 i E 10 05 50	—do.— 2SK68A	〃		
	Tr 609 Tr 610	42 00 00 i E 10 05 50	—do.— 2SK68A	〃		
	Tr 613 Tr 614	42 00 00 i E 10 05 50	—do.— 2SK68A	〃		
*	Tr 629 Tr 630	42 00 00 i B 06 49 00	Transistor 2SB649	トランジスター		
	Tr 625 Tr 626	42 00 00 i C 20 88 00	—do.— 2SC2088	〃		
	D601 D602	42 00 00 i F 00 07 70	Varistor VD1212	バリスター		
*	JK601	42 00 00 L B 30 08 30	Phone Jack LJ255-1-1	ホーンジャック		
		42 00 00 L B 30 08 20	Miniature Connector Female 3P	ミニチュアコネクトコンハウジング		
		42 00 00 L B 60 25 50	—do.— 7P	〃		
		42 00 00 L B 30 03 20	Miniature Connect Pin 3P	ミニチュアコネクトコンピン		
		32 00 00 BB 06 62 90	Earth Washer #6629	アースワッシャー		
*		32 00 00 NA 07 15 70	Switch C.Board	スイッチシート	R,A,E,G,C,B	
*		32 00 00 NA 07 16 90	—do.— (U)	〃	U	
	C407 C408	42 00 00 F A 15 35 60	Mylar Capacitor 0.0056μF/50V	マイラーコン		
	C405 C406	42 00 00 F A 15 41 00	—do.— 0.01μF/50V	〃		
	C401 C404	42 00 00 F A 15 51 50	—do.— 0.15μF/50V	〃		
	R401 R402	42 00 00 HK 15 53 90	Carbon Resistor FCR25 390Ω	カーボン抵抗		
	R411 R412	42 00 00 HK 15 62 20	—do.— 2.2KΩ	〃		
	R403 R404	42 00 00 HK 15 75 60	—do.— 56KΩ	〃		
	R407 R408	42 00 00 HK 15 82 20	—do.— 220KΩ	〃		
	R413 R416	42 00 00 HK 15 92 20	—do.— 2.2MΩ	〃		
	R405 R406	42 00 00 HK 15 92 20	—do.— 2.2MΩ	〃		
*	SW402	42 00 00 KA 80 08 10	Push Switch SUF2-6	プッシュSW		
*	SW401	42 00 00 KA 80 08 20	—do.— SUF3-6	〃		
		32 00 00 NB 08 14 70	Accessories Ass'y	付属品 Ass'y		

C-4 POWER SUPPLY CIRCUITRY



■CIRCUIT BOARDS

