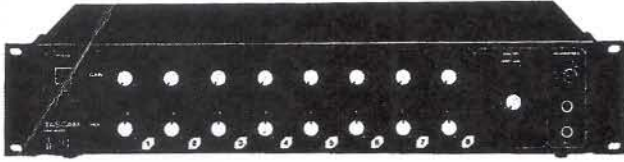


TASCAM
TEAC Professional Division



SERVICE MANUAL

M-1B

Line Mixer

CAUTION

△Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.

注意

△印は安全重要部品です。交換する時は必ずティアック指定の部品を使用してください。

SPECIFICATIONS

仕様

8-IN/2-OUT**LINE IN**

Input impedance	33 k ohms
Nominal input level	-10 dBV (0.3 V)
Maximum input level	+15 dBV (5.6 V)

BUSS IN

Input impedance	50 k ohms
Nominal input level	-10 dBV (0.3 V)
Maximum input level	+15 dBV (5.6 V)

LINE OUT/AUX OUT

Output impedance	100 ohms
Nominal load impedance	10 k ohms
Minimum load impedance	2 k ohms
Nominal output level	-10 dBV (0.3 V)
Maximum output level	+15 dBV (5.6 V)

HEADPHONE OUTPUT

Load impedance	8 ohm stereophones
Maximum output level	3 W + 3 W

OVERLOAD INDICATORS L/R

Light 25 dB over the nominal input level

**FREQUENCY RESPONSE
LINE OUT/AUX OUT**20 – 30 kHz \pm 1 dB**SIGNAL-TO-NOISE RATIO**

One LINE IN–LINE OUT/AUX OUT	82 dB (IHF "A" WTD)/80 dB (DIN AUDIO)
All LINE IN–LINE OUT/AUX OUT	80 dB (IHF "A" WTD)/77 dB (DIN AUDIO)

T.H.D.

LINE IN–LINE OUT/AUX OUT 0.015 % (1 kHz)

CROSSTALK

60 dB

POWER REQUIREMENTS

U.S.A./Canada	120 V AC, 60 Hz, 15 W
Europe	220 V AC, 50 Hz, 10 W
U.K./Australia	240 V AC, 50 Hz, 10 W
General Export	100/120/220/240 V AC, 50/60 Hz, 31 W

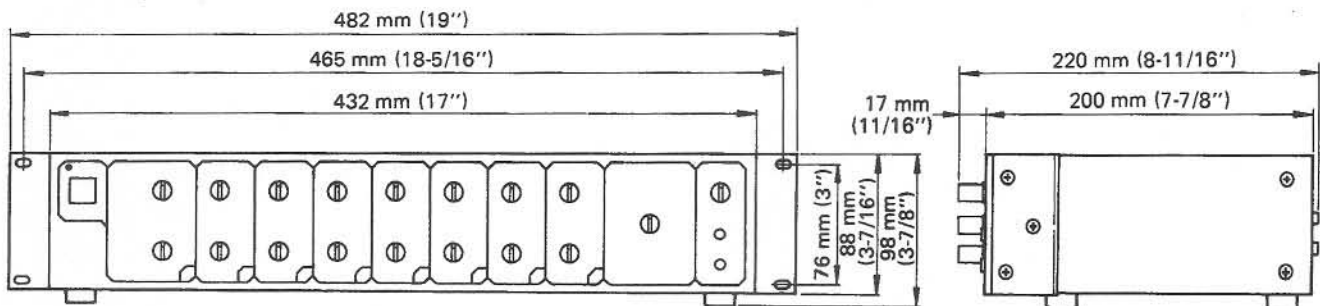
DIMENSIONS (W x H x D)

482 x 98 x 220 mm (19" x 3-7/8" x 8-11/16")

WEIGHT

4 Kg (8-13/16 lbs.) net

In these specifications, 0 dBV is referenced to 1.0 Volt. Actual voltage levels are also given in parenthesis (0.316 V for -10 dBV is rounded off and given as 0.3 V). To calculate the 0 dB = 0.775 Volt reference level (i.e., 0 dBm in a 600-ohm circuit), add 2.2 dB to the listed dB value; i.e., -10 dB re; 1 V = -7.8 dB re: 0.775 V. Changes in specifications and features may be made without notice or obligation.



3 入力 / 2 出力

ライン入力 (× 8) FLB端子付

入力インピーダンス: 33kΩ

規定入力レベル: -10dBV (0.3V)

最大入力レベル: +15dBV (5.6V)

バス入力 (× 2) FLB端子付

入力インピーダンス: 50kΩ

規定入力レベル: -10dBV (0.3V)

最大入力レベル: +15dBV (5.6V)

ライン出力 / AUX出力 (× 2)

出力インピーダンス: 100Ω

負荷インピーダンス: 10kΩ

最小負荷インピーダンス: 2kΩ

規定出力レベル: -10dBV (0.3V)

最大出力レベル: +15dBV (5.6V)

ヘッドホン出力 (× 2)

負荷インピーダンス: 8Ω

最大出力レベル: 3W + 3W (4.9Vrms)

オーバーロードインジケータ L/R (LED) 規定入力レベルに対し、25dB高いレベルで点灯

周波数特性

ライン出力 / AUX出力: 20Hz ~ 30kHz ± 1 dB

ヘッドホン出力: 20Hz ~ 20kHz ± 1 dB

SN比

単ライン入カーライン 82dB (IHF "A" WTD) / 80dB (DIN)

出力 / AUX出力: AUDIO)

総ライン入カーライン 80dB (IHF "A" WTD) / 77dB (DIN)

出力 / AUX出力: AUDIO)

総合ひずみ率 (THD)

ライン入カーライン出 0.015% (1 kHz)

力 / AUX出力:

クロストーク

60dB (1 kHz)

電源

100V AC, 50/60Hz, 31W

最大外形寸法

482 (W) × 98 (H) × 220 (D) mm

重量

4 kg

※ 0 dBV = 1 V

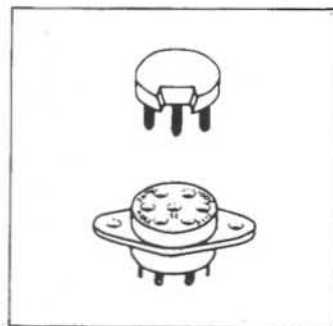
VOLTAGE CONVERSION

This unit is adjusted to operate on the electric voltage specified on the unit or packing carton.

NOTE: This voltage conversion is not possible on models sold in the U.S.A., Canada, U.K., Australia or Europe. For general export units, if it is necessary to change the voltage setting of the M-1B to match your area, use the following procedures.

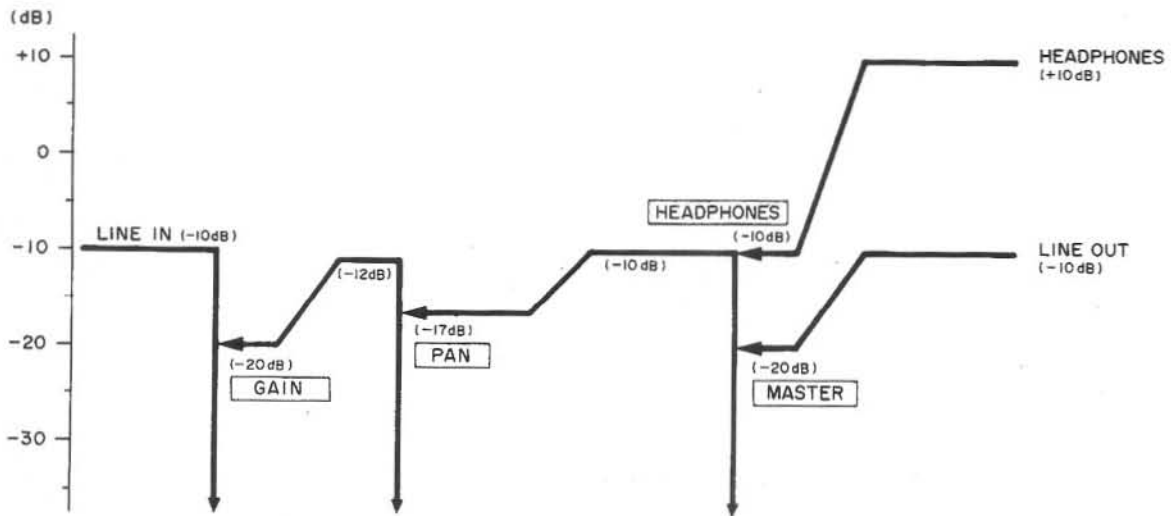
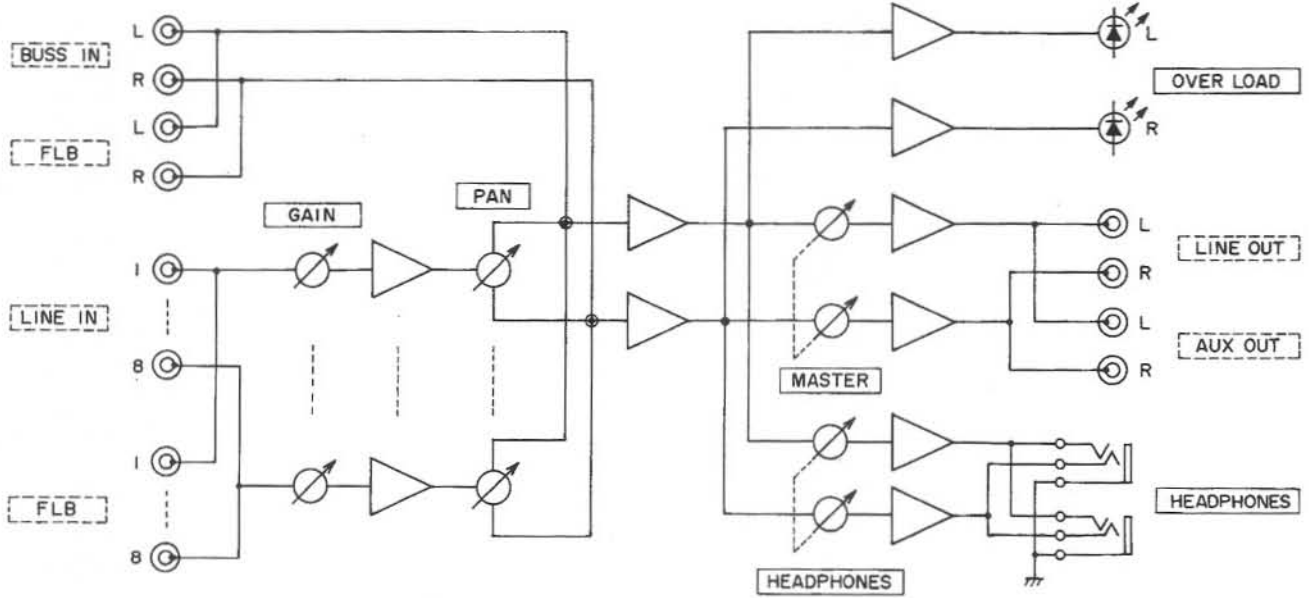
ALWAYS DISCONNECT THE POWER LINE BEFORE MAKING THESE CHANGES.

1. Remove the top cover of the unit by removing the 2 side screws.
 2. Locate the voltage selector plug near the transformer inside the unit.
 3. Pull out the plug and reinsert it so that the desired voltage appears in the cut-out window of the plug.
- Replace the top cover of the unit.



BLOCK DIAGRAM AND LEVEL DIAGRAM

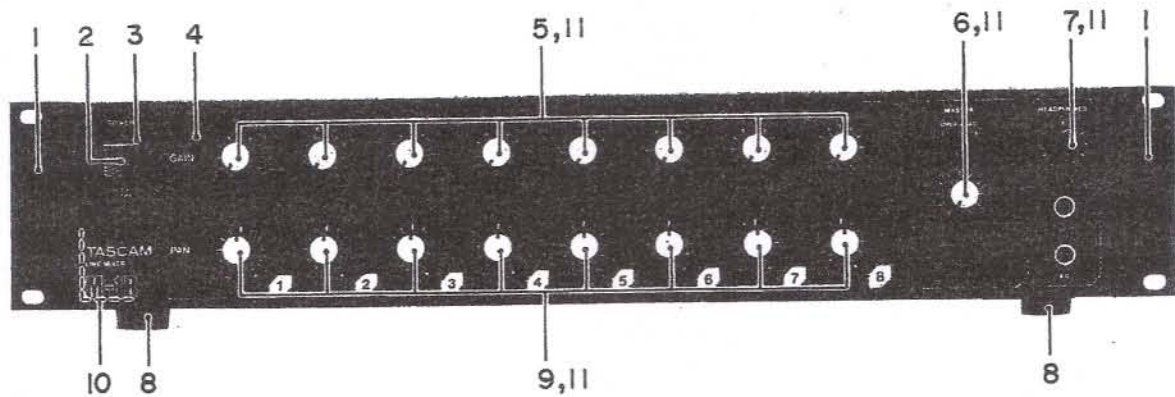
ブロック・ダイアグラム / レベル・ダイアグラム



PARTS LOCATION AND PARTS LIST

部品配置図とパーツ・リスト

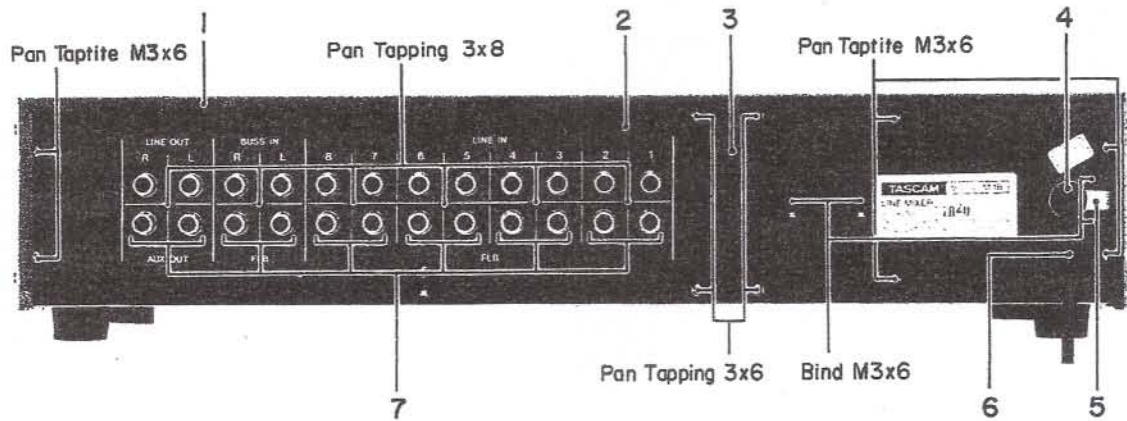
PARTS LOCATION-1



REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
1 - 1	*5800352100	Angle, Rack	PE-40	
1 - 2	5800173100	Button, Power Switch	133	
1 - 3	*5800268900	Escutcheon, Power Switch	X-1000R	
1 - 4	*5800573200	Panel, Front		
1 - 5	6006055100	Cap, Knob (Yellow)	M-5	
1 - 6	6006056100	Cap, Knob (Red)	M-5	
1 - 7	6006058100	Cap, Knob (Green)	M-5	
1 - 8	*5730002900	Foot		
1 - 9	6006054100	Cap, Knob (Ivory)	M-5	
1 - 10	*5800572700	Chassis, Front		
1 - 11	5800146800	Knob, B-15S	M-35	

Parts marked with * require longer delivery time.

PARTS LOCATION-2

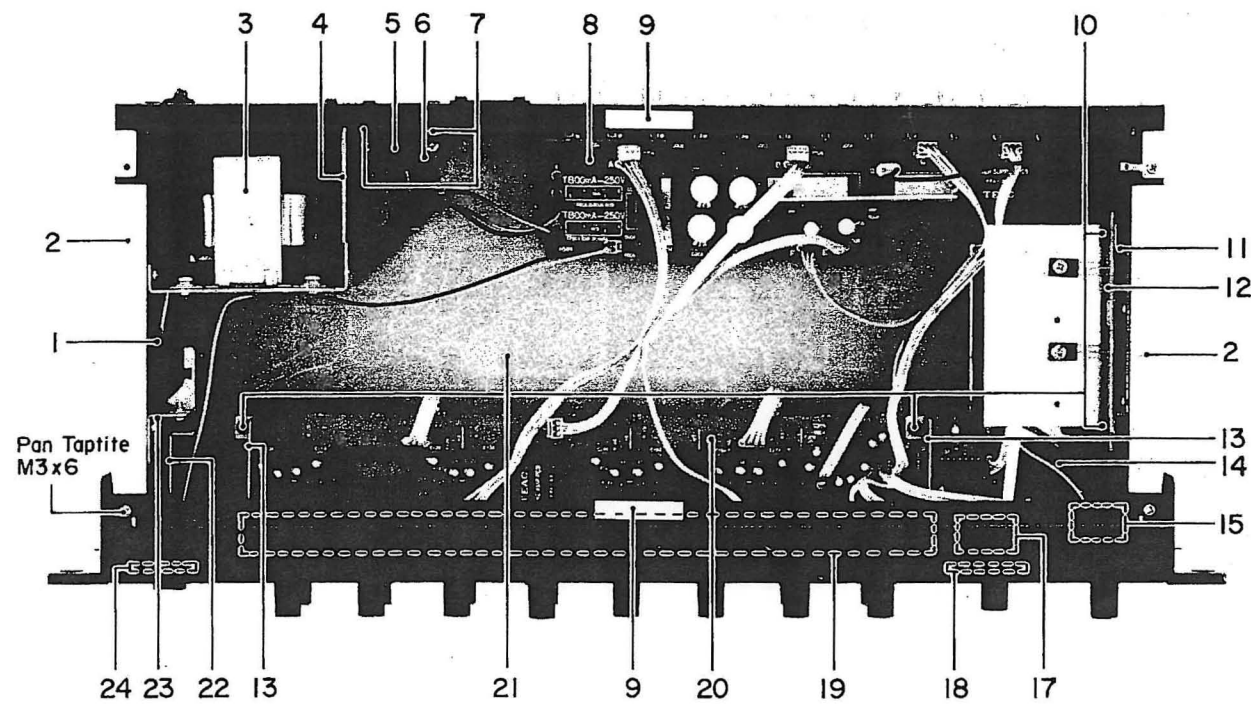


REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
2 - 1	*5800352703	Cover, Top	PE-40	
2 - 2	*5800572800	Panel, Rear		
2 - 3	*5800572900	Panel, Blank		
2 - 4	△*5534660000	Bush, Cord; 4N-4 [J, US, GE, E, A]	PE-40	
	△*5317001700	Bush, Cord; 4N-5 [UK]		
	△*5317001800	Bush, Cord; 5N-5 [C]		
2 - 5	*5800367800	Plate, Bush; B		
2 - 6	△*5128027000	Cord, AC Power [J]		
	△*5350010800	Cord, AC Power [US, GE]		
	△*5350008100	Cord, AC Power [C]		
	△*5350008200	Cord, AC Power [E]		
	△*5128047000	Cord, AC Power [UK]		
	△*5350008300	Cord, AC Power [A]		
2 - 7	*5330507200	Jack, Pin; 4P		

Parts marked with * require longer delivery time.

[US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K.
 [A]: AUSTRALIA [J]: JAPAN

PARTS LOCATION-3



REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
3 - 1	*5200142700 *5200142710 *5200142720 *5200142730 *5200142740	PCB Ass'y, POWER SW [J] PCB Ass'y, POWER SW [US] PCB Ass'y, POWER SW [C] PCB Ass'y, POWER SW [GE] PCB Ass'y, POWER SW [E, UK, A]		
3 - 2	*5800352200	Chassis, Side	PE-40	
3 - 3	△ 5320026900 △ 5320027000 △ 5320027100 △ 5320027200	Transformer, Power [J] Transformer, Power [US, C] Transformer, Power [GE] Transformer, Power [E, UK, A]	MH-40B MH-40B MH-40B MH-40B	
3 - 4	*5800535201	Bracket Transformer	MH-40B	
3 - 5	△ 5043299000	Plug, Voltage Selector [GE]		
3 - 6	△ 5332014400	Socket, Voltage Selector [GE]		
3 - 7	*5800136900	Bracket, Selector [GE]	MM-20	
3 - 8	*5200142600 *5200142610	PCB Ass'y, POWER SUPPLY [J, US, C, GE] PCB Ass'y, POWER SUPPLY [E, UK, A]		
3 - 9	*5555570000	Cushion, Top Cover; B		
3 - 10	*5534878000	Rivet, Push		
3 - 11	*5800573100	Bracket, PCB; B		
3 - 12	*5200142800	PCB Ass'y, POWER AMP		
3 - 13	*5800573000	Bracket, PCB; A		
3 - 14	*5200143500	PCB Ass'y, JACK		
3 - 15	*5200143100	PCB Ass'y, VR (A)		
3 - 16		(Not used)		
3 - 17	*5200143200	PCB Ass'y, VR (B)		
3 - 18	*5200143400	PCB Ass'y, LED (B)		
3 - 19	*5200143000	PCB Ass'y, PAN		
3 - 20	*5200142900	PCB Ass'y, LINE AMP		
3 - 21	*5800352601	Cover, Bottom	PE-40	
3 - 22	*5800351900	Lever, Power Switch	PE-40	
3 - 23	*5800362500	Bracket, Power Switch	PE-40	
3 - 34	*5200143300	PCB Ass'y, LED (A)		

Parts marked with * require longer delivery time.

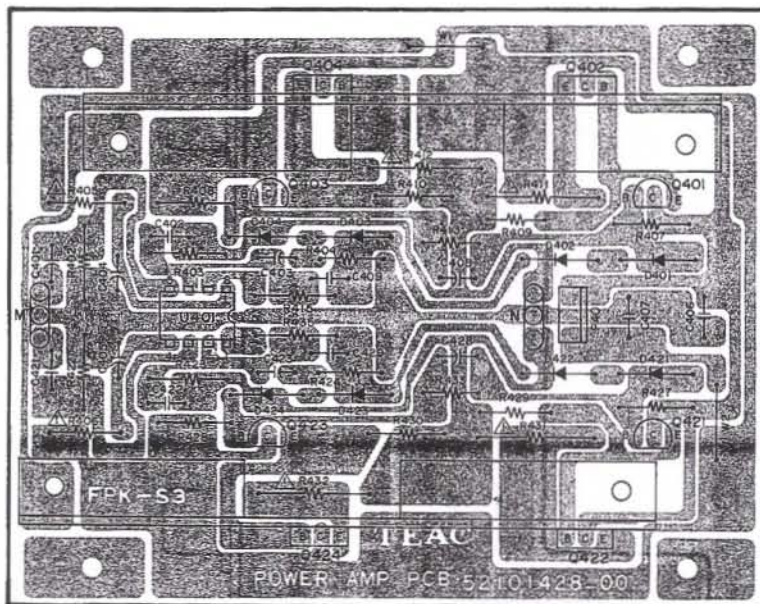
INCLUDED ACCESSORIES

REF. NO.	PARTS NO.	DESCRIPTION	COMMON MODELS	REMARKS
	*5700063000	M-1B Owner's Manual [J]		
	*5700063100	M-1B Owner's Manual [All except J]		
	*5740004100	Screw Kit, Mounting		

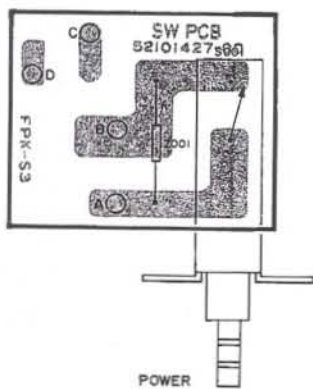
Parts marked with * require longer delivery time.

[US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K.
[A]: AUSTRALIA [J]: JAPAN

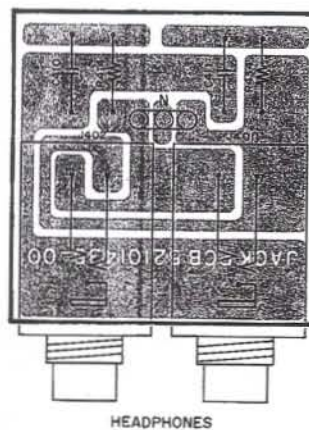
POWER AMP PCB ASS'Y



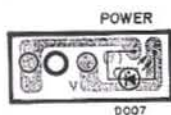
POWER SW PCB ASS'Y



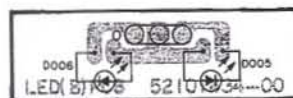
JACK PCB ASS'Y



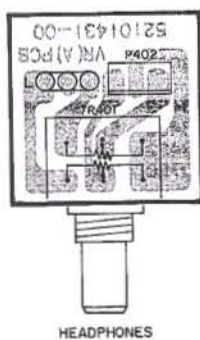
LED (A) PCB ASS'Y



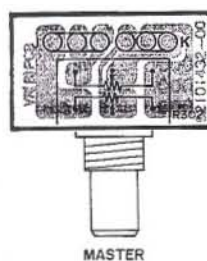
LED (B) PCB ASS'Y



VR (A) PCB ASS'Y



VR (B) PCB ASS'Y



NOTES

1. PC boards are shown viewed from foil side.
2. △ Parts marked with this sign are safety critical components.
They must always be replaced with identical components.
Refer to the appropriate parts list to ensure exact replacement.

注

1. 基板図はパターン面が示されています。
2. △マークのある部品は安全重要部品です。
交換するときは必ずティアック指定の部品を使用してください。

LINE AMP PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200142900	PCB Ass'y
	*5210142900	PCB
IC's		
U101, U121	5220416600	NJM2041DD
U141, U161	5220416600	NJM2041DD
U301, U311	5220416600	NJM2041DD
U321	5220416900	LM339
DIODES		
D321, D331	5143118000	1S2473HJ
CARBON RESISTORS		
All resistors are reted ±5% tolerance and 1/4 watt unless otherwise noted.		
R102, R112	5181530000	100kΩ
R122, R132	5181530000	100kΩ
R142, R152	5181530000	100kΩ
R162, R172	5181530000	100kΩ
R103, R113	5181510000	15kΩ
R123, R133	5181510000	15kΩ
R143, R153	5181510000	15kΩ
R163, R173	5181510000	15kΩ
R104, R114	5181508000	12kΩ
R124, R134	5181508000	12kΩ
R144, R154	5181508000	12kΩ
R164, R174	5181508000	12kΩ
R105, R125	△5183566000	33Ω Nonflammable
R106, R126	△5183566000	33Ω Nonflammable
R145, R165	△5183566000	33Ω Nonflammable
R146, R166	△5183566000	33Ω Nonflammable
R301, R311	5181524000	56kΩ
R303, R313	5181512000	18kΩ
R304, R314	5181524000	56kΩ
R305, R315	5181530000	100kΩ
R306, R316	5181438000	100Ω
R307, R308	△5183566000	33Ω Nonflammable
R320, R330	5181530000	100kΩ
R321, R331	5181538000	220kΩ
R322, R332	5181506000	10kΩ
R323, R333	5181513000	20kΩ
R324	△5183554000	10Ω Nonflammable
R325, R335	5181434000	10Ω
R326, R336	5181530000	100kΩ
R327, R337	5181522000	47kΩ
R328, R338	5181516000	27kΩ
R329, R339	5181482000	1kΩ
CAPACITORS		
C101, C111	5260163452	Elec. 22μF 25V
C121, C131	5260163452	Elec. 22μF 25V
C141, C151	5260163452	Elec. 22μF 25V
C161, C171	5260163452	Elec. 22μF 25V
C102, C112	5172204000	Ceramic 22pF 50V
C122, C132	5172204000	Ceramic 22pF 50V
C142, C152	5172204000	Ceramic 22pF 50V
C162, C172	5172204000	Ceramic 22pF 50V

REF. NO.	PARTS NO.	DESCRIPTION
C103, C113	5172206000	Ceramic 33pF 50V
C123, C133	5172206000	Ceramic 33pF 50V
C143, C153	5172206000	Ceramic 33pF 50V
C163, C173	5172206000	Ceramic 33pF 50V
C104, C114	5260163452	Elec. 22μF 25V
C105, C125	5260163452	Elec. 22μF 25V
C106, C126	5260163452	Elec. 22μF 25V
C124, C134	5260163452	Elec. 22μF 25V
C144, C154	5260163452	Elec. 22μF 25V
C145, C165	5260163452	Elec. 22μF 25V
C146, C166	5260163452	Elec. 22μF 25V
C164, C174	5260163452	Elec. 22μF 25V
C301, C311	5260163452	Elec. 22μF 25V
C302, C312	5172204000	Ceramic 22pF 50V
C301, C313	5260163452	Elec. 22μF 25V
C304, C314	5260163452	Elec. 22μF 25V
C305, C315	5172204000	Ceramic 22pF 50V
C306, C316	5260163452	Elec. 22μF 25V
C307, C317	5260163452	Elec. 22μF 25V
C321	5260163452	Elec. 22μF 25V
C322, C332	5260160750	Elec. 1μF 50V
VARIABLE RESISTORS		
R101, R111	5282013300	50kΩ (A)
R121, R131	5282013300	50kΩ (A)
R141, R151	5282013300	50kΩ (A)
R161, R171	5282013300	50kΩ (A)
MISCELLANEOUS		
W1 ~ W14	5181763000	Jumper
W15 ~ W17	5181761000	Jumper
P101	5122127000	Connector Plug, 3P (White)
P102, P103	5122128000	Connector Plug, 4P (White)

Parts marked with * require longer delivery time.

PAN PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200143000	PCB Ass'y
	*5210143000	PCB
CARBON RESISTORS		
All resistors are rated $\pm 5\%$ tolerance and 1/4 watt.		
R201, R211	5181501000	6.2k Ω
R221, R231	5181501000	6.2k Ω
R241, R251	5181501000	6.2k Ω
R261, R271	5181501000	6.2k Ω
R202, R212	5181501000	6.2k Ω
R222, R232	5181501000	6.2k Ω
R242, R252	5181501000	6.2k Ω
R262, R272	5181501000	6.2k Ω
R203, R213	5181514000	22k Ω
R223, R233	5181514000	22k Ω
R243, R253	5181514000	22k Ω
R263, R273	5181514000	22k Ω
R204, R214	5181514000	22k Ω
R224, R234	5181514000	22k Ω
R244, R254	5181514000	22k Ω
R264, R274	5181514000	22k Ω
R281, R282	5181524000	56k Ω
VARIABLE RESISTORS		
R205, R215	5282013400	10k Ω (B)
R255, R235	5282013400	10k Ω (B)
R245, R255	5282013400	10k Ω (B)
R265, R275	5282013400	10k Ω (B)
MISCELLANEOUS		
W1~W8	5181761000	Jumper

POWER SUPPLY PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200142600	PCB Ass'y [J, US, C, GE]
	*5200142610	PCB Ass'y [E, UK, A]
	*5210142600	PCB
TRANSISTORS		
Q001	Δ 5230779200	2SC2824Y
Q002	Δ 5230017500	2SA1184Y
DIODES		
D001	Δ 5228006600	KBP04
D002	5143118000	1S2473HJ
D003, D004	5224543401	Zener, RD13EB2
RESISTORS		
R001, R002	Δ 5185191000	Metal, 0.33 Ω 2W
R003, R004	Δ 5183600000	Carbon, 820 Ω 1/4W Nonflammable
R005	5181490000	Carbon, 2.2k Ω 1/4W
R006	5181482000	Carbon, 1k Ω 1/4W
CAPACITORS		
C001~C004	Δ 5173089000	Elec. 2200 μ F 25V
C005, C006	5173054800	Elec. 220 μ F 16V
C007~C010	5173433000	Ceramic 0.01 μ F 50V
C011	Δ 5263164900	Metarized 0.1 μ F 250V
MISCELLANEOUS		
P001	5122126000	Connector Plug, 2P (White)
P002, P003	5122127000	Connector Plug, 3P (White)
J001~J006	5330507200	Pin Jack, 4P
F001, F002	Δ 5142186000	Fuse, 800mA 250V [E, UK, A]
	5142087000	Holder, Fuse [E, UK, A]
	5033291000	Plate, Insul.; 1S-313D
	5800463400	Heatsink, A
W001, W002	5181763000	Jumper
W003, W004	5181763000	Jumper [J, US, C, GE]
W005	5181765000	Jumper

Parts marked with * require longer delivery time.

[US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K.
[A]: AUSTRALIA [J]: JAPAN

POWER AMP PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5220142800	PCB Ass'y
	*5210142800	PCB
	IC	
U401	5220419600	NJM5532D
	TRANSISTORS	
Q401, Q421	5230774400	2SC1845E
Q402, Q422	5230779200	2SC2824Y
Q403, Q423	5230016200	2SA992E
Q404, Q424	5230017500	2SA1184Y
	DIODES	
D401~D404	5143118000	1S2473HJ
D421~D424	5143118000	1S2473HJ
	CARBON RESISTORS	
All resistors are rated $\pm 5\%$ tolerance and 1/4 watt unless otherwise noted.		
R402, R422	5181530000	100k Ω
R403, R423	5181514000	22k Ω
R404, R424	5181490000	2.2k Ω
R405, R406	△5183566000	33 Ω Nonflammable
R407, R427	5181498000	4.7k Ω
R408, R428	5181498000	4.7k Ω
R409, R429	5181466000	220 Ω
R410, R430	5181466000	220 Ω
R411, R431	△5183538000	2.2 Ω Nonflammable
R412, R432	△5183538000	2.2 Ω Nonflammable
R413, R433	5181522000	47k Ω
R415, R435	5181474000	470 Ω
	CAPACITORS	
C401, C421	5260163452	Elec. 22 μ F 25V
C402, C422	5172208000	Ceramic 47pF 50V
C403, C423	5260165252	Elec. 47 μ F 25V
C404, C405	5260163452	Elec. 22 μ F 25V
C406, C407	5173433000	Ceramic 0.01 μ F 50V
C408, C428	5260160750	Elec. 1 μ F 50V
C409, C429	5172200000	Ceramic 10pF 50V
	MISCELLANEOUS	
P401	5122127000	Connector Plug, 3P (White)
	5317003000	Heatsink
	5033291000	Plate, Insul., 1S-313D

POWER SW PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200142700	PCB Ass'y [J]
	*5200142710	PCB Ass'y [US]
	*5200142720	PCB Ass'y [C]
	*5200142730	PCB Ass'y [GE]
	*5200142740	PCB Ass'y [E, UK, A]
	*5210142700	PCB
Z001	△ 5292002500	Spark Killer, 0.01 μ F +300 Ω /300V [J, GE]
Z001	△ 5052910000	Spark Killer, 0.033 μ F +120 Ω /125V [US]
Z001	△ 5292002600	Spark Killer, 0.033 μ F +120 Ω /125V [C]
Z001	△ 5267703700	Spark Killer, 4700pF/400V [E, UK, A]
	△ 5327007200	Terminal, 2P [E, UK, A]
S001	△ 5300030800	Switch, Push (POWER)

JACK PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200143500	PCB Ass'y
	*5210143500	PCB
J401, J402	5330009600	Jack, 3 cond.; S-G4112
C410, C411	5173435000	Ceramic Cap. 0.047 μ F 50V
R414, R434	5180034000	Carbon Res. 10 Ω 1/2W

LED (A) PCB ASS'Y

REF. NO.	PART NO.	DESCRIPTION
	*5200143300	(A) PCB Ass'y
	*5210143300	(A) PCB
D007	5225005400	LED, SLP-135B (Red)
	5355049800	Wire Ass'y, LED
	5355049700	Wire, LED
	5122164000	Connector Socket, 2P (White)
	5122240000	Connector Pin x 2

LED (B) PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200143400	(B) PCB Ass'y
	*5210143400	(B) PCB
D005, D006	5225005400	LED, SLP-135B (Red)

Parts marked with * require longer delivery time.

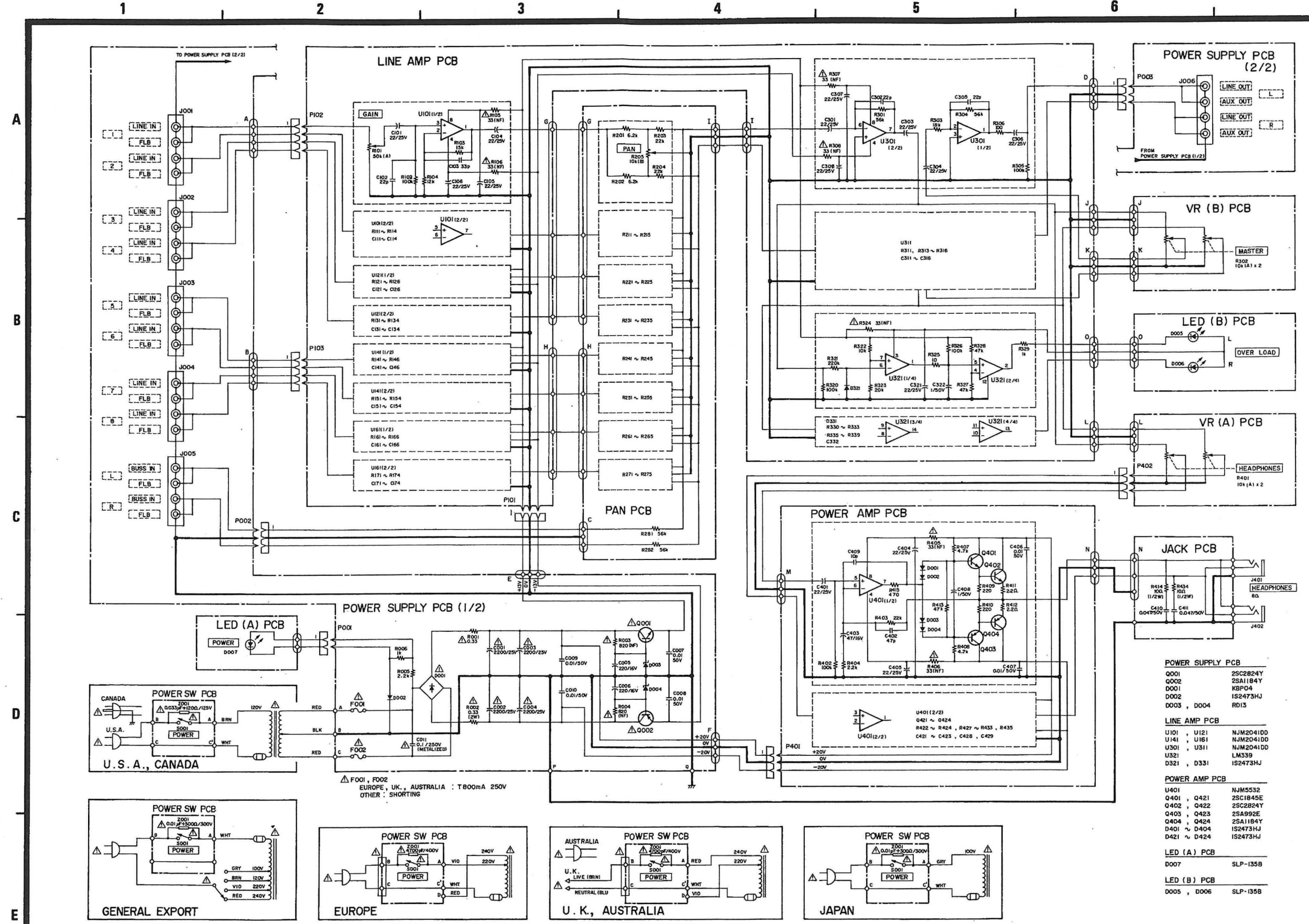
[US]: U.S.A. [C]: CANADA [GE]: GENERAL EXPORT [E]: EUROPE [UK]: U.K.
[A]: AUSTRALIA [J]: JAPAN

VR (A) PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200143100	(A) PCB Ass'y
	*5210143100	(A) PCB
R401	5282410000	Var. Res. 20k Ω (A) x 2
R402	5122127000	Connector Plug, 3P (White)

VR (B) PCB ASS'Y

REF. NO.	PARTS NO.	DESCRIPTION
	*5200143200	(B) PCB Ass'y
	*5210143200	(B) PCB
R302	5282410000	Var. Res. 20k Ω (A) x 2



INSTRUCTIONS FOR SERVICE PERSONNEL
 BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

- NOTES**
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
 2. Capacitor values are in microfarads (p=picofarads).
 3. Δ Parts marked with this sign are safety critical components. They must always be replaced with identical components—refer to the appropriate parts list and ensure exact replacement.
 4. : Front panel indication
 5. : Rear panel indication

- 注意**
1. 抵抗の単位は Ω (k=k Ω , M=M Ω) です
 2. コンデンサの単位は μ F (p=pF) です。
 3. Δ マークのある部品は安全重要部品です。交換するときは必ずティアック指定の部品を使用してください。
 4. : フロント・パネル上の表示
 5. : リア・パネル上の表示

POWER SUPPLY PCB	
Q001	2SC2824Y
Q002	2SA1184Y
DO01	KBPO4
DO02	IS2473HJ
DO03, DO04	RD13
LINE AMP PCB	
U101, U12	NJM2041DD
U141, U161	NJM2041DD
U301, U311	NJM2041DD
U321	LM339
D321, D331	IS2473HJ
POWER AMP PCB	
U401	NJM5532
Q401, Q421	2SC1845E
Q402, Q422	2SC2824Y
Q403, Q423	2SA992E
Q404, Q424	2SA1184Y
D401 ~ D404	IS2473HJ
D421 ~ D424	IS2473HJ
LED (A) PCB	
DO07	SLP-135B
LED (B) PCB	
DO05, DO06	SLP-135B

M-1B

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