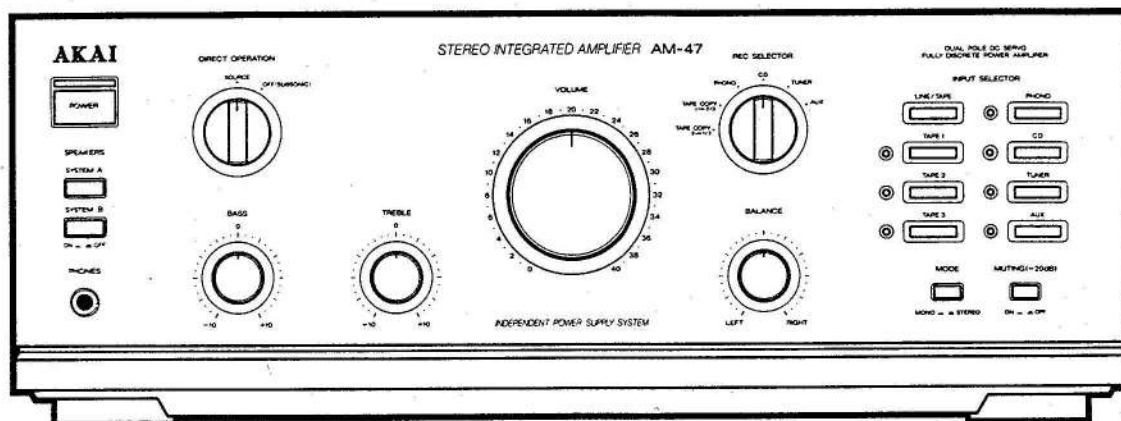


# AKAI SERVICE MANUAL



MODEL AM-47

## STEREO INTEGRATED AMPLIFIER

# MODEL AM-37/47

## SPECIFICATIONS

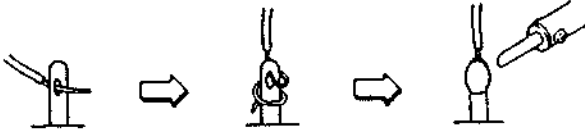
<b>Power output</b>		<b>S / N ratio</b>	
AM-47 .....	120 W + 120 W (DIN, 4 ohms at 1 kHz, 1% distortion)	AM-47 PHONO (MM) ....	85 dB (IHF-A)
	80 W + 80 W (FTC, 8 ohms at 30 Hz to 20 kHz, 0.05 % distortion)	TUNER, etc. ....	101 dB (IHF-A)
AM-37 .....	90 W + 90 W (DIN, 4 ohms at 1 kHz, 1% distortion)	AM-37 PHONO (MM) ....	84 dB (IHF-A)
	60 W + 60 W (FTC, 8 ohms at 30 Hz to 20 kHz, 0.05 % distortion)	TUNER, etc. ....	100 dB (IHF-A)
<b>Power band width</b>		<b>Audio mute</b> .....	-20dB
AM-47 .....	5 Hz to 60 kHz / 0.1 % distortion	<b>Subsonic filter</b> .....	16 Hz (-12dB/oct)
AM-37 .....	10 Hz to 60 kHz / 0.1% distortion	<b>Channel separation</b> .....	60 dB (1 kHz) / 50 dB (10 kHz)
<b>Total harmonic distortion</b> ....	0.005 % (1 kHz, 8 ohms)	<b>Cross talk</b>	
<b>Frequency response</b> .....	5 Hz to 100 kHz (+0 dB, -3 dB)	PHONO .....	70 dB (1kHz, 5.0 mV Input level)
<b>Tone control</b>		TUNER, etc. ....	75 dB (1kHz, 500 mV Input level)
BASS .....	±8 dB (100 Hz)	<b>Required speaker impedance</b>	
TREBLE .....	±8 dB (10 kHz)	A or B.....	4 to 16 ohms
<b>Input sensitivity/Impedance</b>		A and B.....	8 to 16 ohms
PHONO (MM) .....	2.5 mV / 47 kohms	<b>Power requirements</b>	220-230 V, 50 Hz for Europe except UK
TUNER, etc. ....	150 mV / 47 kohms		240 V, 50 Hz for UK
<b>Maximum input level</b>		<b>Power consumption</b>	
PHONO .....	160 mV	AM-47 .....	230 W
TUNER, etc. ....	5.0 V (at tone control flat)	AM-37 .....	190 W
<b>Output level / Impedance</b>		<b>Dimensions</b> .....	425 (W) X 156 (H) X 370 (D) mm (16.7 X 6.1 X 14.6 inches)
TAPE REC OUT .....	150 mV / 1 kohms	<b>Weight</b>	
<b>Damping factor</b> .....	45 (1 kHz, 8 ohms)	AM-47 .....	10.5 kg
<b>Residual noise</b> .....	0.1 mV (IHF-A)	AM-37 .....	9.9 kg
		<b>Standard accessory</b>	
		Operator's manual .....	1

\* For improvement purposes, specifications and design are subject to change without notice.

# ★ SAFETY INSTRUCTIONS

## PRECAUTIONS DURING SERVICING

1. Parts identified by the  $\triangle$  (\*) symbol are critical for safety. Replace only with parts number specified
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with specified replacements.  
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers (Insulating Barriers)
  - 4) Insulation sheets for transistors
  - 5) Plastic screws for fixing micro switch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder, droplets, etc.) do not remain inside the set.

## SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earthground through a resistor of 1500 ohms paralleled with a 0.15  $\mu$ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

# ★ INFORMATION

## SYMBOLS FOR PRIMARY DESTINATION

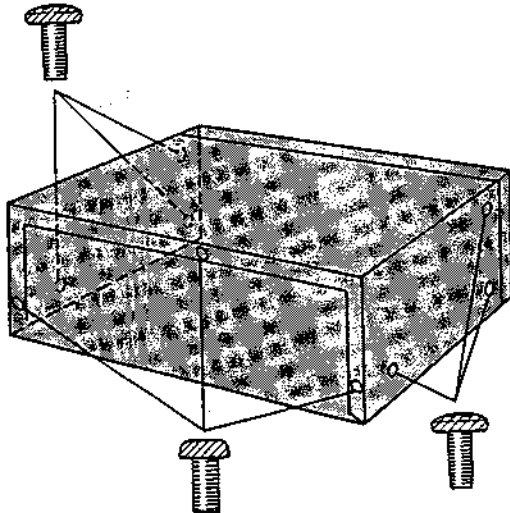
Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	Germany
U	Universal Area
Y*	Custom version

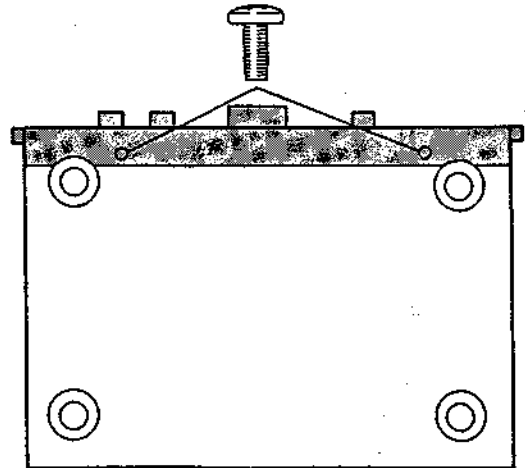
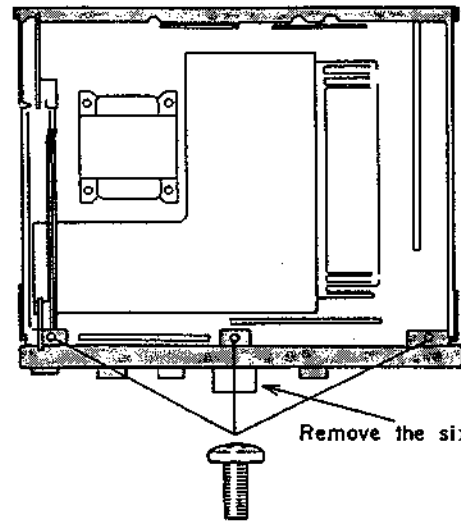
# I. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.

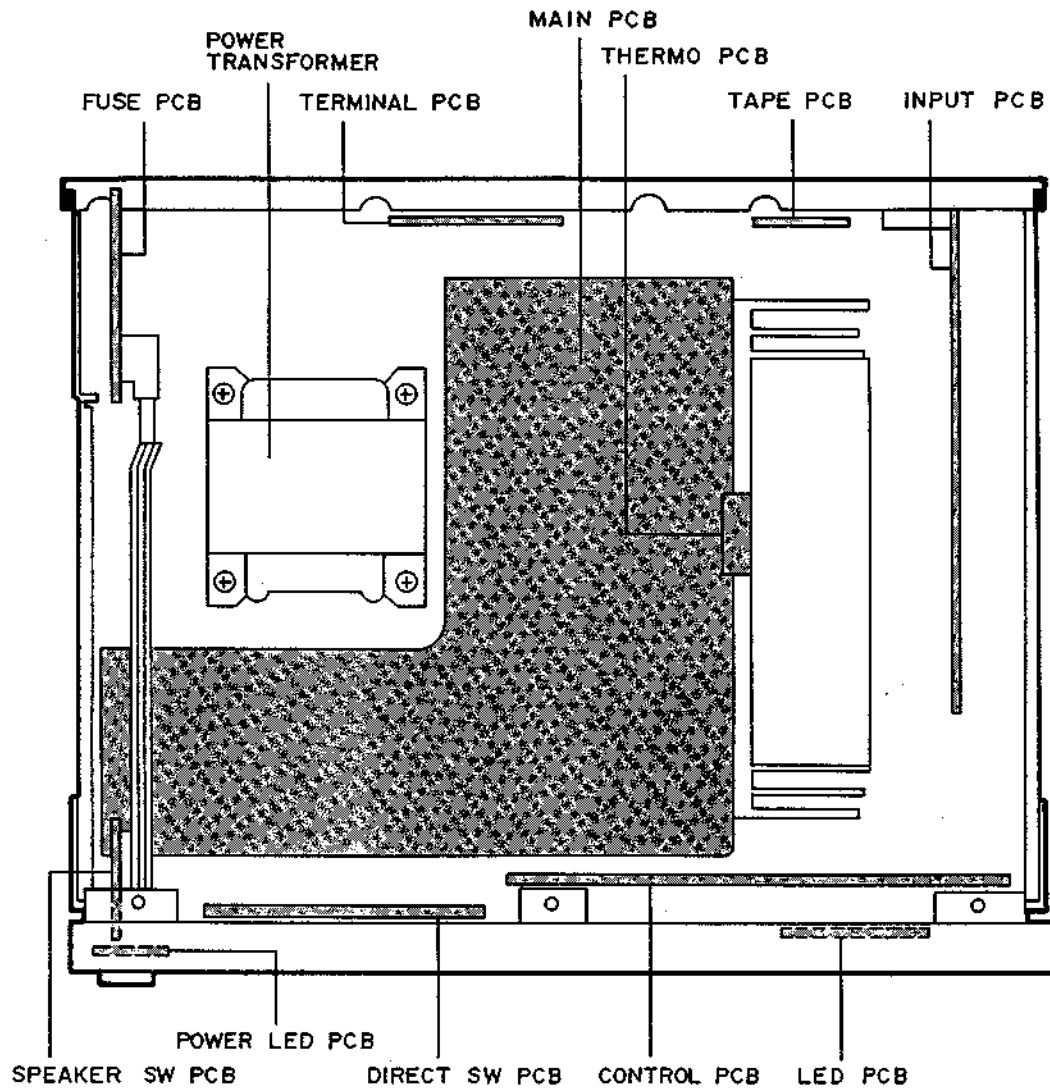
## 1. Removal of UPPER COVER



## 2. Removal of FRONT PANEL



## II. PRINCIPAL PARTS LOCATION



# III. PARTS LIST

## ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

## HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

### 2. HEAD BASE BLOCK

Ref. No.	Part No.	Description
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

### 6. MAIN PC BOARD

Ref. No.	Part No.	Description
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC XTAL NC-18C

Symbols for primary destination

[A]: AAL (U.S.A)      [S]: SAA (Australia)  
 [B]: BEAB (England) [U]: U/T (Universa Area)  
 [C]: CSA (Canada)  
 [E]: CEE (Europe)    [V]: VDE (W. Germany)  
 [J]: JPN (Japan)      [Y]: Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

## WARNING

△ (\*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

## AVERTISSEMENT

△ (\*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

## 1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref.No.	Part No.	Description
1	*BT-391368J1	TRANS POW A2062 BS [B] [AM-47]
2	*BT-391371J1	TRANS POW A2063 BS [B] [AM-37]
3	*BT-401271J	TRANS POW A2069-EV [E,V] [AM-37]
4	*BT-401272J	TRANS POW A2070-EV [E,V] [AM-47]
5	ED-383034J	D LED SLR-54PC3F L,M GREEN
6	ED-400680J	D LED SLR33MC70F80 GREEN T05
7	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
8	*ED-348990J	D SILICON H DS446
9	ED-624903	D SILICON H 1S2473
10	*ED-384278J	D SILICON RBV602 200/6.0A
11	*ED-511907	D SILICON 1N4002 100/1.0A
12	ED-346549	D ZENER H HZ11B1L
13	ED-346558	D ZENER H HZ12B1L
14	ED-346564	D ZENER H HZ15-1L [AM-37]
15	ED-346567	D ZENER H HZ16-1L
16	ED-346570	D ZENER H HZ18-3L [AM-47]
17	ED-346571	D ZENER H HZ20-1L
18	ED-346583	D ZENER H HZ30-3L
19	*EF-364518	FUSE BET T 250V 2.50A [B] [AM-37]
20	*EF-359225	FUSE BET T 250V 3.15A [B] [AM-47]
21	*EF-355374	FUSE BET T 250V 500MA [B]
22	*EF-623125	FUSE SEMKO T 250V 2.50A [E,V] [AM-37]
23	*EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-47]
24	*EF-593706	FUSE SEMKO T 250V 500MA [E,V]
25	EI-393323J	IC M5218AL-771
26	EI-393325J	IC M5218AP
27	EI-393326J	IC M5218AP-721
28	EI-354080	IC UPC1237H
29	EQ-388322J	RELAY POW VB24SMBU-522UL 24V
30	ER-368226	R CT P R33+R33 5W
31	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G
32	*ER-338000	R FUSE H S10 ERD2FC 1/4W 2200G
33	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
34	*ES-361970	SW PUSH SDDL1B1 01-1
35	ES-401265J	SW PUSH SPEC22 2THROW S [AM-47]
36	ES-401266J	SW PUSH SPEC42 4THROW N
37	ES-401267J	SW PUSH SPEC42 4THROW N
38	ES-401263J	SW ROTARY SRRV22 02-02N
39	ES-401264J	SW ROTARY SRRZU8 06-06N
40	ET-354897	TR FET 2SK170 BL,GR,V
41	ET-359827	TR FET 2SK246 BL
42	*ET-345626	TR 2SA1248 S,T
43	ET-352726	TR 2SA1392 T,U
44	*ET-390074J1	TR 2SA1491 P,Y LF118 [AM-37]
45	*ET-390075J1	TR 2SA1492 P,Y LF118 [AM-47]
46	ET-305463	TR 2SA970 GR,BL
47	*ET-354601	TR 2SB941 P,O
48	ET-307195	TR 2SC2240 GR,BL
49	ET-348830	TR 2SC2909 S,T
50	ET-370038	TR 2SC2910 S,T
51	*ET-345625	TR 2SC3116 S,T
52	ET-378524J	TR 2SC3383 S,T,U
53	*ET-390070J1	TR 2SC3855 P,Y LF118 [AM-37]
54	*ET-390072J1	TR 2SC3856 P,Y LF118 [AM-47]
55	*ET-371028	TR 2SD1266 P,Q
56	EV-401268J	VR ROTARY RK16312 A104X2
57	EV-401270J	VR ROTARY RK16312 B103X2
58	EV-401269J	VR ROTARY RK16312 SPL W104

## 2. P.C BOARD BLOCK

Ref.No.	Part No.	Description
1A	BA-A2069A020C	PC( # ) MAIN AMP BLK AM-37(E)
1B	BA-A2069A020D	PC( # ) MAIN AMP BLK AM-37(V)
1C	BA-A2069A020A	PC( # ) MAIN AMP BLK AM-47(E)
1D	BA-A2069A020B	PC( # ) MAIN AMP BLK AM-47(V)
2A	BA-A2069A030A	PC( # ) CONTROL BLK AM-37(E)
2B	BA-A2069A030B	PC( # ) CONTROL BLK AM-37(V)
2C	BA-A2069A030C	PC( # ) CONTROL BLK AM-47(E)
2D	BA-A2069A030D	PC( # ) CONTROL BLK AM-47(V)

PC( # ) MAIN AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN AMP P.C BOARD
- FUSE P.C BOARD
- TERMINAL P.C BOARD
- SPEAKER SW P.C BOARD
- THERMO P.C BOARD

PC( # ) CONTROL BLK CONSISTS OF FOLLOWING P.C BOARD.

- INPUT P.C BOARD
- CONTROL P.C BOARD
- DIRECT SW P.C BOARD
- TAPE P.C BOARD
- LED P.C BOARD
- POWER LED P.C BOARD

### 3. MAIN AMP P.C BOARD

Ref.No.	Part No.	Description
C1A	EC-390066J	C EC V S10 682M 50.0DC [AM-37]
C1B	EC-390067J	C EC V S10 822M 56.0DC [AM-47]
C2A	EC-390066J	C EC V S10 682M 50.0DC [AM-37]
C2B	EC-390067J	C EC V S10 822M 56.0DC [AM-47]
C4	EC-201643	C EC V CUT AS1 471M 80.0DC
C5	EC-201643	C EC V CUT AS1 471M 80.0DC
D1	*ED-384278J	D SILICON RBV602 200/6.0A
D2	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D3	*ED-379981J	D SILICON EG01LF-F4 F10 400/0.7A
D4	ED-383034J	D LED SLR-54PC3F L,M GREEN
D5	ED-383034J	D LED SLR-54PC3F L,M GREEN
D6	ED-346583	D ZENER H HZ30-3L
D7A	ED-346564	D ZENER H HZ15-1L [AM-37]
D7B	ED-346570	D ZENER H HZ18-3L [AM-47]
D8	ED-346583	D ZENER H HZ30-3L
D9A	ED-346564	D ZENER H HZ15-1L [AM-37]
D9B	ED-346570	D ZENER H HZ18-3L [AM-47]
D12	*ED-511907	D SILICON 1N4002 100/1.0A
D13	*ED-511907	D SILICON 1N4002 100/1.0A
D14	ED-346567	D ZENER H HZ16-1L
D15	ED-346567	D ZENER H HZ16-1L
D20	*ED-511907	D SILICON 1N4002 100/1.0A
D21	ED-346558	D ZENER H HZ12B1L
D23	ED-346549	D ZENER H HZ11B1L
D24	ED-346571	D ZENER H HZ20-1L
D25	ED-346571	D ZENER H HZ20-1L
D26	ED-624903	D SILICON H 1S2473
D27	ED-624903	D SILICON H 1S2473
D28	ED-624903	D SILICON H 1S2473
D29	ED-383034J	D LED SLR-54PC3F L,M GREEN
D32	ED-624903	D SILICON H 1S2473
D33	ED-624903	D SILICON H 1S2473
D34	ED-624903	D SILICON H 1S2473
D35	ED-624903	D SILICON H 1S2473
D36	*ED-348990	D SILICON H DS446
D37	ED-624903	D SILICON H 1S2473
D38	ED-624903	D SILICON H 1S2473
D41	ED-624903	D SILICON H 1S2473
FR1	*ER-341493	R FUSE H S10 ERD2FC 1/4W 1001G
FR2	*ER-338000	R FUSE H S10 ERD2FC 1/4W 2200G
FR3	*ER-338000	R FUSE H S10 ERD2FC 1/4W 2200G
IC1	EI-354080	IC UPC1237H
IC2	EI-393325J	IC M5218AP
L1	EO-337880	COIL FIX 2 202AK-018 2R2K
RL1	EQ-388322J	RELAY POW VB24SMBU-522UL 24V
R39	ER-368226	R CT P R33+R33 5W
TR1	ET-352726	TR 2SA1392 T,U
TR2	ET-378524J	TR 2SC3383 S,T,U
TR3	*ET-345625	TR 2SC3116 S,T
TR4	*ET-345626	TR 2SA1248 S,T
TR5	ET-359827	TR FET 2SK246 BL
TR6	ET-359827	TR FET 2SK246 BL
TR7	*ET-371028	TR 2SD1268 P,Q
TR8	*ET-354601	TR 2SB941 P,Q
TR13	*ET-371028	TR 2SD1266 P,Q
TR15	ET-348830	TR 2SC2909 S,T
TR16	ET-364897	TR FET 2SK170 BL,GR,V
TR17	ET-348830	TR 2SC2909 S,T
TR18	ET-364897	TR FET 2SK170 BL,GR,V
TR19	ET-305463	TR 2SA970 GR,BL
TR20	*ET-305463	TR 2SA970 GR,BL
TR21	*ET-305463	TR 2SA970 GR,BL
TR22	ET-305463	TR 2SA970 GR,BL
TR23	ET-370038	TR 2SC2910 S,T
TR24	ET-370038	TR 2SC2910 S,T
TR25	ET-370038	TR 2SC2910 S,T
TR26	ET-345625	TR 2SC3116 S,T
TR27	ET-345626	TR 2SA1248 S,T
TR28	*ET-345625	TR 2SC3116 S,T
TR29	*ET-345626	TR 2SA1248 S,T

Ref.No.	Part No.	Description
TR30A	*ET-390070J1	TR 2SC3855 P,Y LF118 [AM-37]
TR30B	*ET-390072J1	TR 2SC3856 P,Y LF118 [AM-47]
TR31A	*ET-390074J1	TR 2SA1491 P,Y LF118 [AM-37]
TR31B	*ET-390075J1	TR 2SA1492 P,Y LF118 [AM-47]
TR32	ET-307195	TR 2SC2240 GR,BL
TR33	ET-305463	TR 2SA970 GR,BL
F3A	*EF-593706	FUSE SEMKO T 250V 500MA [E,V]
F3B	*EF-355374	FUSE BET T 250V 500MA [B]
F4A	*EF-593706	FUSE SEMKO T 250V 500MA [E,V]
F4B	*EF-355374	FUSE BET T 250V 500MA [B]
F5A	*EF-593706	FUSE SEMKO T 250V 500MA [E,V]
F5B	*EF-355374	FUSE BET T 250V 500MA [B]
F6A	*EF-593706	FUSE SEMKO T 250V 500MA [E,V]
F6B	*EF-355374	FUSE BET T 250V 500MA [B]

### 4. FUSE P.C BOARD

Ref.No.	Part No.	Description
C101	*EC-338496	C CE V DE7 FZ 472P 400AC
L101	*EO-337880	COIL FIX 2 202AK-018 2R2K
L102	*EO-337880	COIL FIX 2 202AK-018 2R2K
SW101	*ES-361970	SW PUSH SDDLBT 01-1
F1A	*EF-623125	FUSE SEMKO T 250V 2.50A [E,V] [AM-37]
F1B	*EF-364518	FUSE BET T 250V 2.50A [B] [AM-37]
F1C	*EF-691007	FUSE SEMKO T 250V 3.15A [E,V] [AM-47]
F1D	*EF-359225	FUSE BET T 250V 3.15A [B] [AM-47]

### 5. TERMINAL P.C BOARD

Ref.No.	Part No.	Description
TM201	EJ-390078J	TERMINAL W/SCREW LTS0810-1001

### 6. SPEAKER SW P.C BOARD

Ref.No.	Part No.	Description
J301	EJ-391132J	PHONE J 3P YKB24-5162 GP 6.3
SW301	ES-390080J	SW PUSH SPUL22 2THROW N

### 7. THERMO P.C BOARD

Ref.No.	Part No.	Description
TR501	*ET-345625	TR 2SC3116 S,T
TR502	*ET-345626	TR 2SA1248 S,T

## 8. INPUT P.C BOARD

Ref.No.	Part	No.Description
FR1	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
FR2	*ER-344161	R FUSE H S10 ERD2FC 1/4W 82R0G
IC1	EI-393326J	IC M5218AP-721
J1	EJ-390097J	PIN J YKC21-0015B 4P
J2	EJ-390097J	PIN J YKC21-0015B 4P

## 9. CONTROL P.C BOARD

Ref.No.	Part	No.Description
SW101	ES-401264J	SW ROTARY SRRZU6 06-06N
SW102	ES-401266J	SW PUSH SPEC42 4THROW N
SW103	ES-401267J	SW PUSH SPEC42 4THROW N
SW104	ES-401265J	SW PUSH SPEC22 2THROW S [AM-47]
VR101	EV-401268J	VR ROTARY RK16312 A104X2
VR102	EV-401269J	VR ROTARY RK16312 SPL W104

## 10. DIRECT SW P.C BOARD

Ref.No.	Part	No.Description
IC201	EI-393323J	IC M5218AL-771
IC202	EI-393323J	IC M5218AL-771
SW201	ES-401263J	SW ROTARY SRBV22 02-02N
VR201	EV-401270J	VR ROTARY RK16312 B103X2
VR202	EV-401270J	VR ROTARY RK16312 B103X2

## 11. TAPE P.C BOARD

Ref.No.	Part	No.Description
J301	EJ-390102J	PIN J YKC21-0045A 6P
J302	EJ-390102J	PIN J YKC21-0045A 6P

## 12. LED P.C BOARD

Ref.No.	Part	No.Description
D401	ED-400680J	D LED SLR33MC70F80 GREEN T05
D402	ED-400680J	D LED SLR33MC70F80 GREEN T05
D403	ED-400680J	D LED SLR33MC70F80 GREEN T05
D404	ED-400680J	D LED SLR33MC70F80 GREEN T05
D405	ED-400680J	D LED SLR33MC70F80 GREEN T05
D406	ED-400680J	D LED SLR33MC70F80 GREEN T05
D407	ED-400680J	D LED SLR33MC70F80 GREEN T05

## 13. POWER LED P.C BOARD

Ref.No.	Part	No.Description
D501	ED-400680J	D LED SLR33MC70F80 GREEN T05
D502	ED-400680J	D LED SLR33MC70F80 GREEN T05

## 14. FINAL ASSEMBLY BLOCK

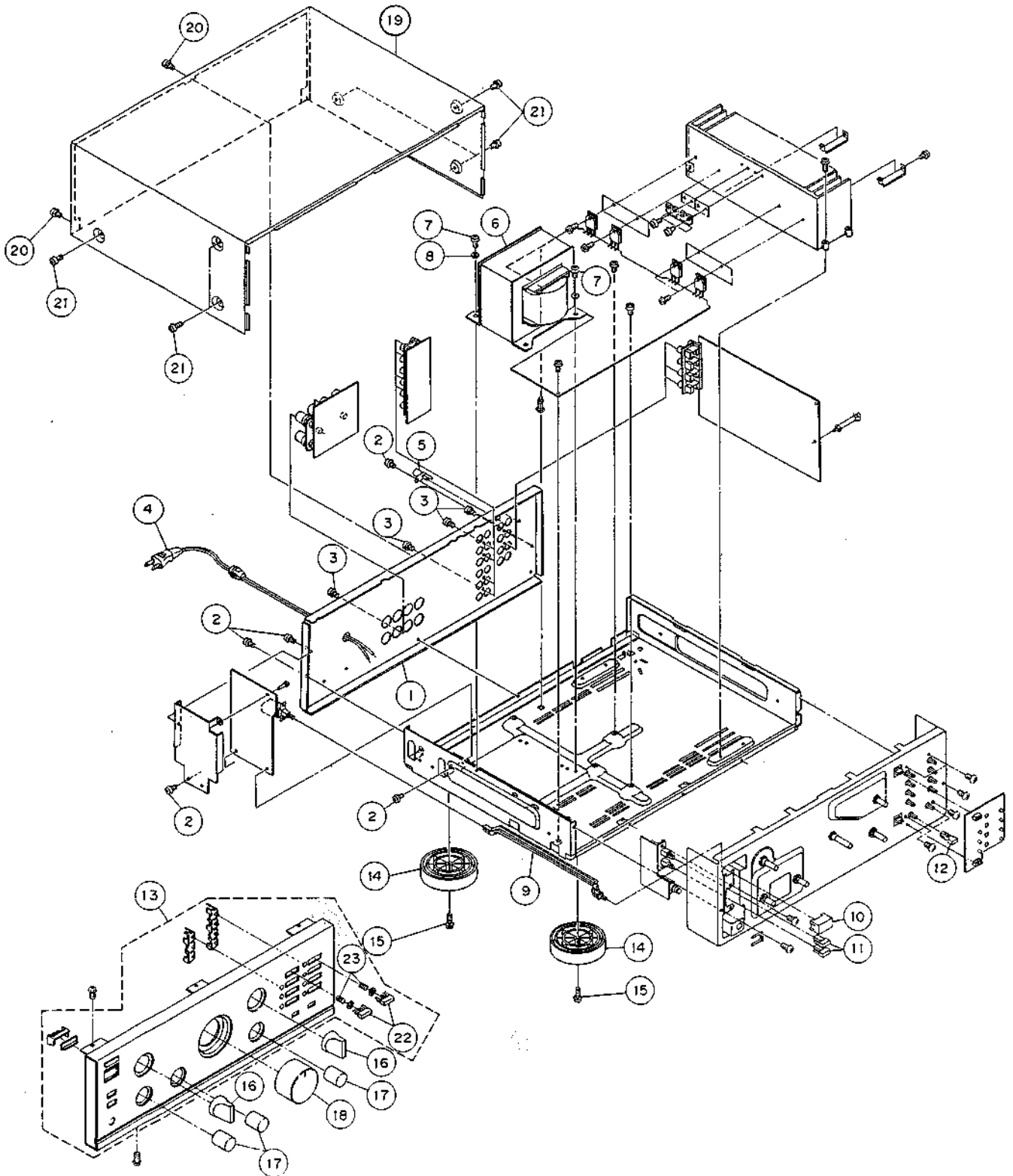
Ref.No.	Part	No.Description
1A	SP-402635J	PANEL REAR AM-37(E)
1B	SP-402637J	PANEL REAR AM-37(V)
1C	SP-402638J	PANEL REAR AM-37(B)
1D	SP-402639J	PANEL REAR AM-47(E)
1E	SP-402640J	PANEL REAR AM-47(V)
1F	SP-402641J	PANEL REAR AM-47(B)
2	ZS-378722J	ST BR30X06STL BNI EARTH LOCK
3	ZS-354991	BT BR30X10STL CMT
4A	*EW-363670	AC CORD200 0364 LCFL B150 A FV [E,V]
4B	*EW-363682	AC CORD200 LCFL B150 A B [B]
5	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
6A	*BT-401271J	TRANS POW A2069-EV [E,V] [AM-37]
6B	*BT-391371J1	TRANS POW A2063 BS [B] [AM-37]
6C	*BT-401272J	TRANS POW A2070-EV [E,V] [AM-47]
6D	*BT-391368J1	TRANS POW A2062 BS [B] [AM-47]
7	ZS-346742	ST BID40X08STL CMT CUP
8	ZW-274026	SW50
9	MZ-370925	JOINT POWER
10-B	SK-373236B	KNOB POWER-B
10-G	SK-373236A	KNOB POWER-G
11-B	SK-373242B	KNOB MODE-BLACK
11-G	SK-373242A	KNOB MODE-GOLD
12-B	SK-364004J	KNOB PUSH [AM-47]
12-G	SK-390820J	KNOB PUSH G [AM-47]
13A-B	BD-A2069A040A	PANEL FRONT BLK AM-37-B
13A-G	BD-A2069A040B	PANEL FRONT BLK AM-37-G
13B-B	BD-A2069A040C	PANEL FRONT BLK AM-47-B
13B-G	BD-A2069A040D	PANEL FRONT BLK AM-47-G
14	SA-379375	FOOT(N)
15	ZS-354055	ST BR30X12STL CMT
16-B	SK-402589J	KNOB SELECTOR-B
16-G	SK-402590J	KNOB SELECTOR-G
17-B	SK-402587J	KNOB BALANCE-B
17-G	SK-402588J	KNOB BALANCE-G
18-B	SK-402591J	KNOB VOLUME-B PART
18-G	SK-402593J	KNOB VOLUME-G PART
19-B	SP-391360J	COVER UPPER B
19-G	SP-390812J	COVER UPPER G
20	ZS-387983J	ST BID30X08STL BNI EARTH LOCK
21-B	ZS-322580	ST BID40X08STL BNI
21-G	ZS-322570	ST BID40X08STL NI3
22-B	SK-402585J	KNOB FUNCTION-B
22-G	SK-402586J	KNOB FUNCTION-G
23	ZG-402808J	SP PUSH BUTTON

### NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.



**FINAL ASSEMBLY BLOCK**



PARTS LIST

# MEMO

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## ABBREVIATIONS (AMPLIFIER)

ABBREVIATION	EXPLANATION
A	Analog
AC	Alternating Current
AMP	AMPlifier
CD	Compact Disc
COM	COMmon
D	Digital
D/A	Digital to Analog
DAC	Digital to Analog Converter
DAT	Digital Audio Tape recorder
DC	Direct Current
GND	GrouND
L	Left
LED	Light Emitting Diode
MC	Moving Coil
MM	Moving Magnet
PCB	Printed Circuit Board
R	Right
REG	REGulator
REC	RECORD
TR	TRansistor
SW	SWitch
V.AMP	Voltage AMPlifier
V.DIS	Video DISC
VR	Variable Resistance
VTR	Video Tape Recorder



# AKAI

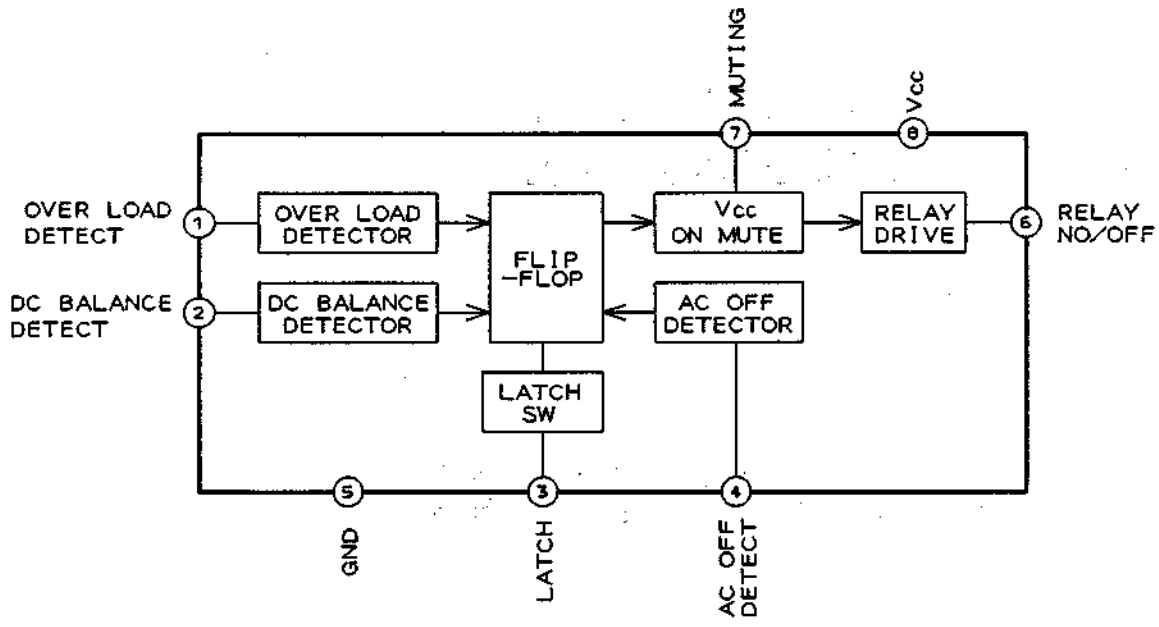
MODEL **AM-37, 47**

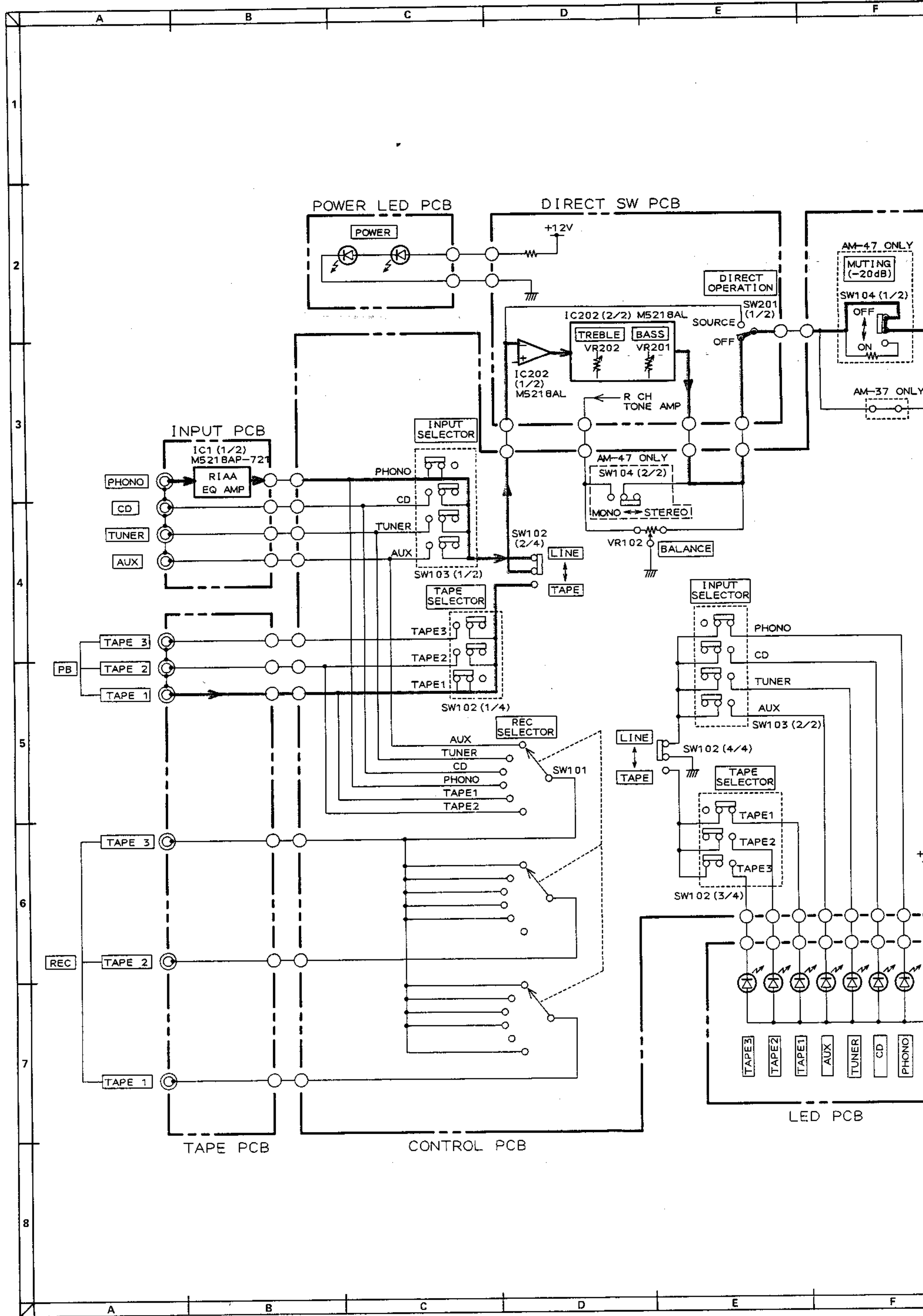
## **SCHEMATIC DIAGRAMS AND PC BOARDS**

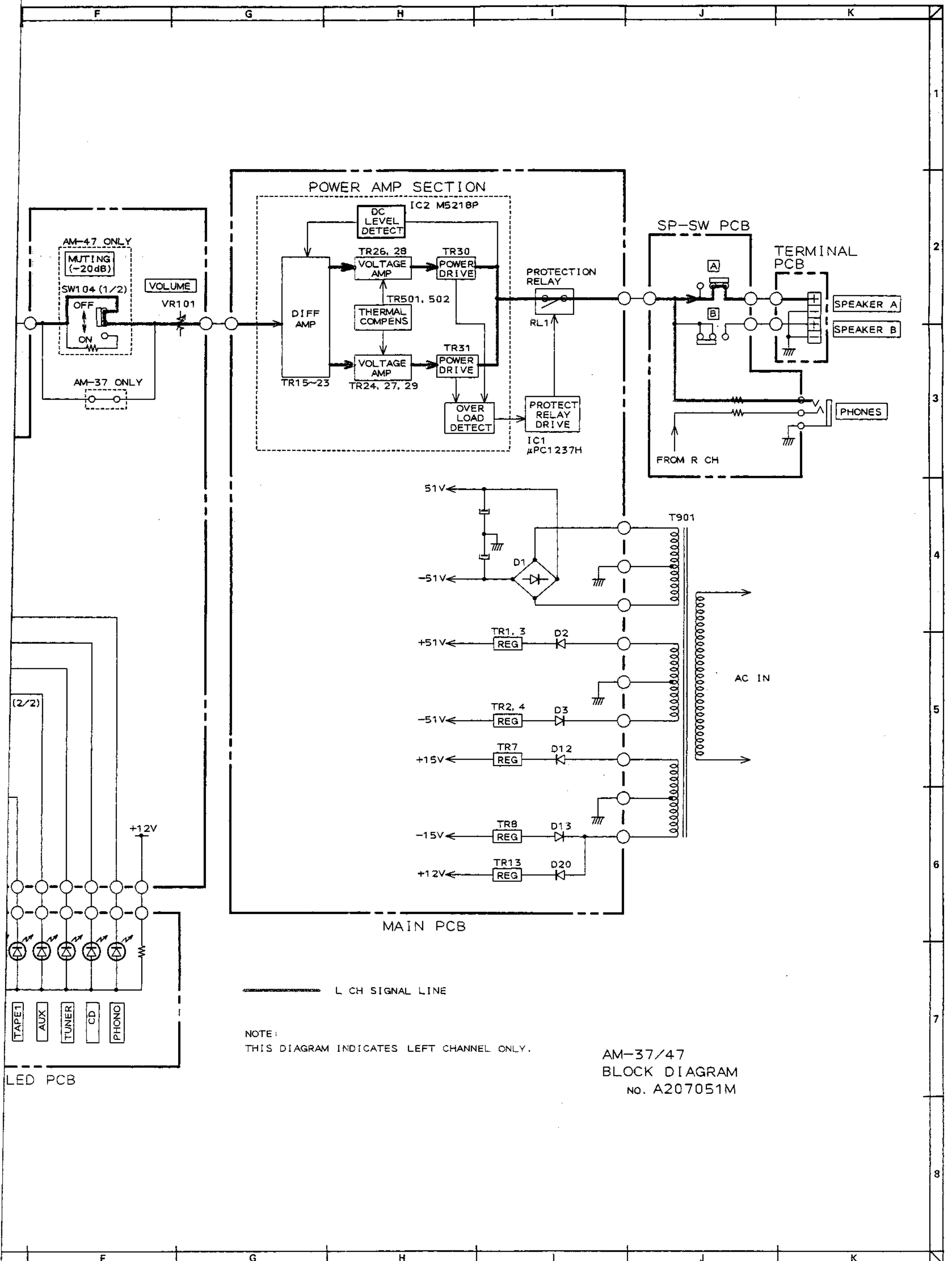
### TABLE OF CONTENTS

1. INFORMATION OF IC .....	2
2. BLOCK DIAGRAM .....	3
3. MAIN AMP & CONNECTION DIAGRAM .....	4
4. MAIN AMP AND OTHER PC BOARDS .....	5
5. CONTROL & INPUT SCHEMATIC DIAGRAM .....	6
6. CONTROL AND OTHER PC BOARDS .....	7
7. INPUT PC BOARD .....	8

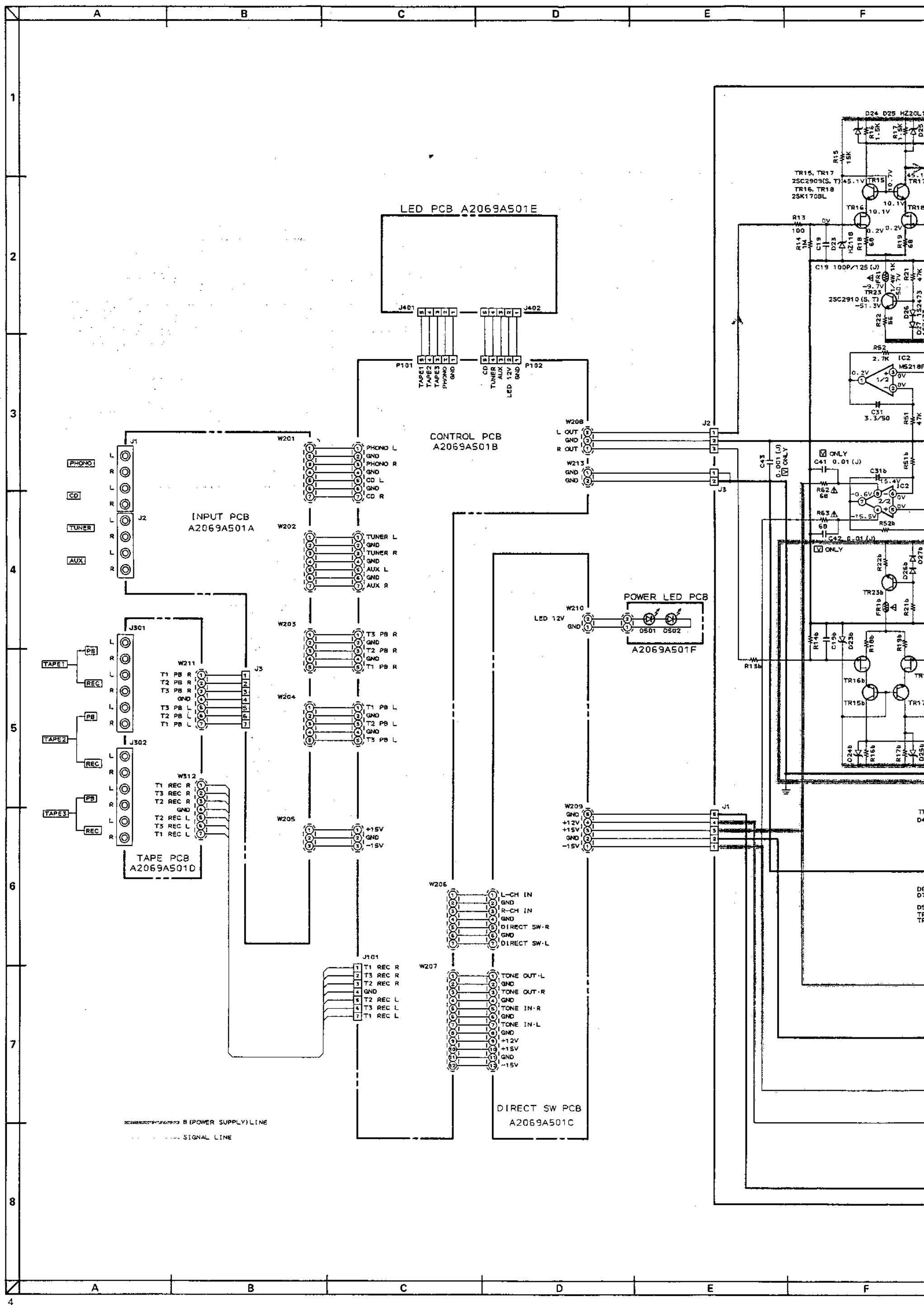
μPC1237H (PROTECT RELAY DRIVE)



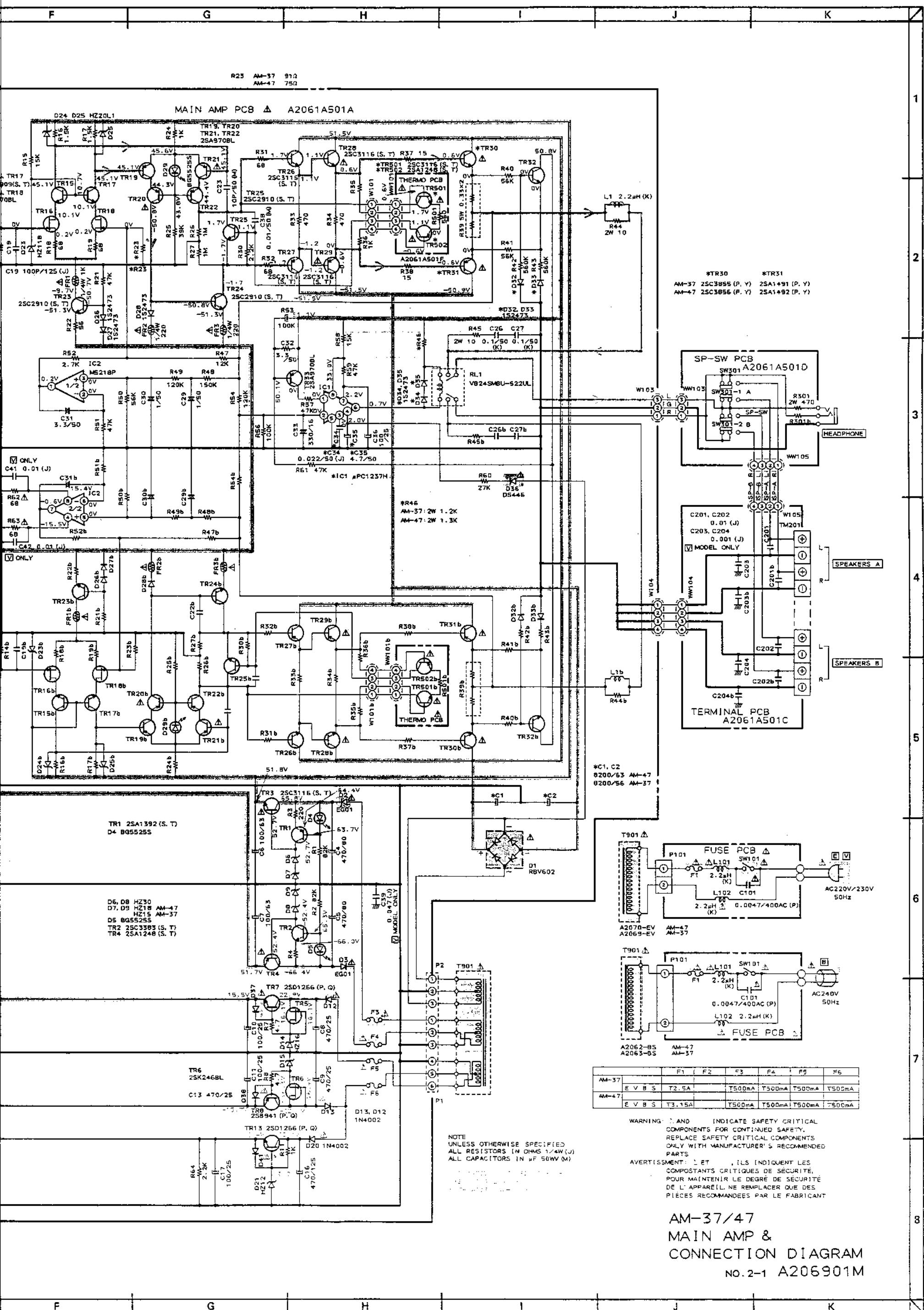






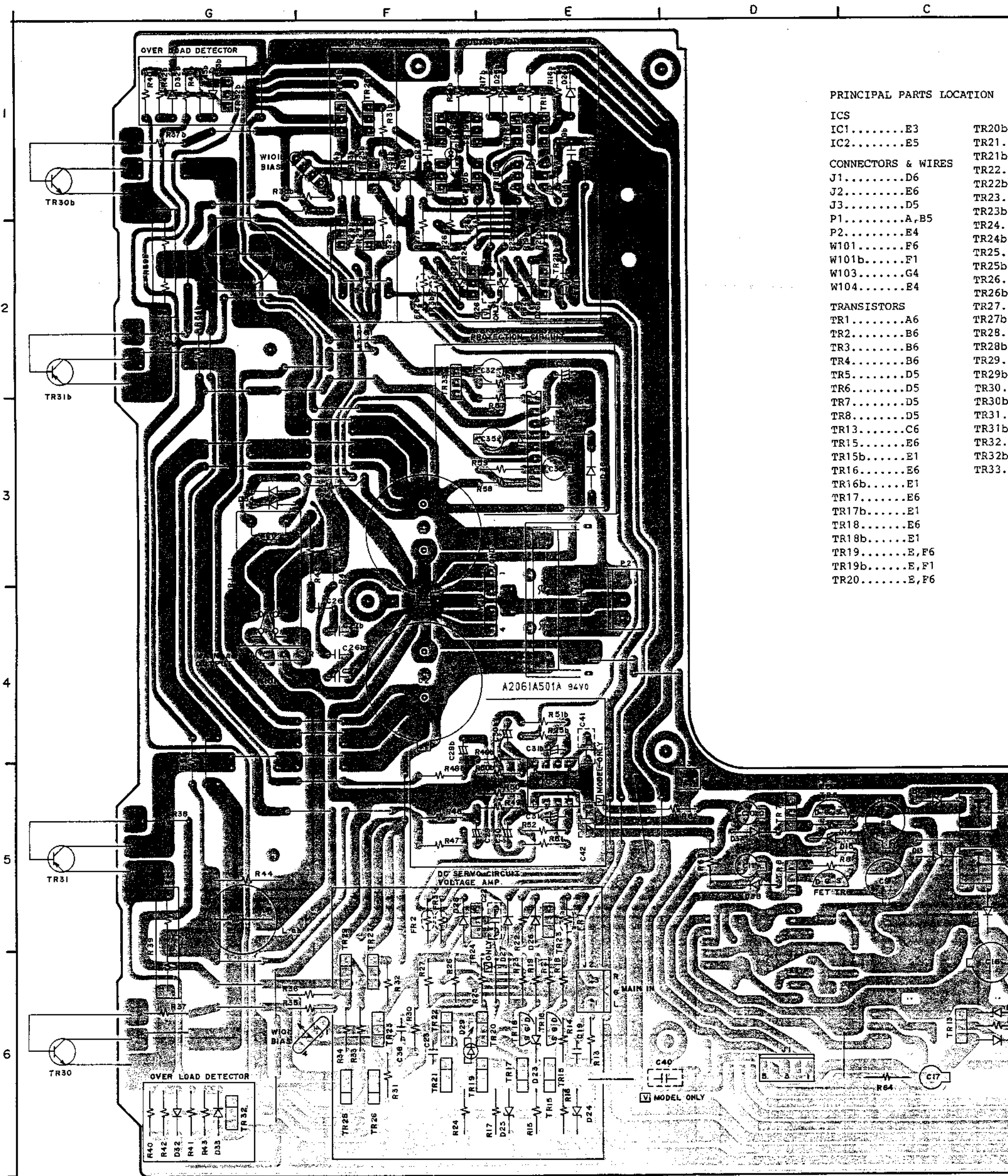


--- B (POWER SUPPLY) LINE  
 --- SIGNAL LINE



	F1	F2	F3	F4	F5	F6
AM-37	E V B S	T2.5A	T500mA	T500mA	T500mA	T500mA
AM-47	E V B S	T3.15A	T500mA	T500mA	T500mA	T500mA

AM-37/47  
MAIN AMP &  
CONNECTION DIAGRAM  
NO. 2-1 A206901M



PRINCIPAL PARTS LOCATION

ICS		
IC1.....	E3	TR20b
IC2.....	E5	TR21.
CONNECTORS & WIRES		TR21b
J1.....	D6	TR22.
J2.....	E6	TR22b
J3.....	D5	TR23.
P1.....	A,B5	TR23b
P2.....	E4	TR24.
W101.....	F6	TR24b
W101b.....	F1	TR25.
W103.....	G4	TR25b
W104.....	E4	TR26.
TRANSISTORS		TR26b
TR1.....	A6	TR27.
TR2.....	B6	TR27b
TR3.....	B6	TR28.
TR4.....	B6	TR28b
TR5.....	D5	TR29.
TR6.....	D5	TR29b
TR7.....	D5	TR30.
TR8.....	D5	TR30b
TR13.....	C6	TR31.
TR15.....	E6	TR31b
TR15b.....	E1	TR32.
TR16.....	E6	TR32b
TR16b.....	E1	TR33.
TR17.....	E6	
TR17b.....	E1	
TR18.....	E6	
TR18b.....	E1	
TR19.....	E,F6	
TR19b.....	E,F1	
TR20.....	E,F6	

MAIN PCB A2061A501A

C B A

AL PARTS LOCATION

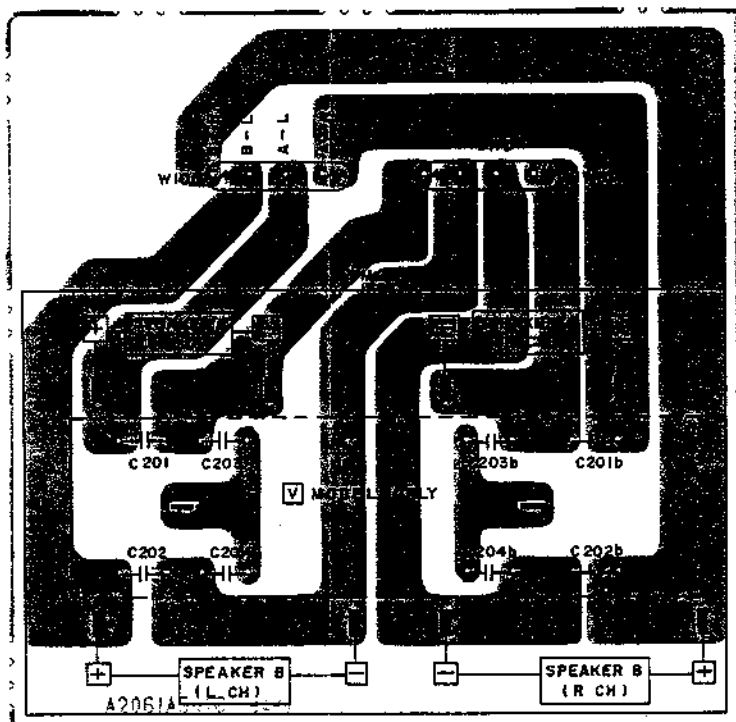
....E3	TR20b.....E,F1
....E5	TR21.....F6
ORS & WIRES	TR21b.....F1
....D6	TR22.....F6
....E6	TR22b.....F1
....D5	TR23.....E5
....A,B5	TR23b.....E2
....E4	TR24.....F5
....F6	TR24b.....E,F2
....F1	TR25.....F6
....G4	TR25b.....F1
....E4	TR26.....F6
	TR26b.....F1
TORS	TR27.....F6
....A6	TR27b.....F2
....B6	TR28.....F6
....B6	TR28b.....F1
....B6	TR29.....F6
....D5	TR29b.....F2
....D5	TR30.....G6
....D5	TR30b.....G1
....D5	TR31.....G5
....C6	TR31b.....G2
....E6	TR32.....G6
....E1	TR32b.....G1
....E6	TR33.....F2
....E1	
....E6	
....E1	
....E6	
....E1	
....E,F6	
....E,F1	
....E,F6	



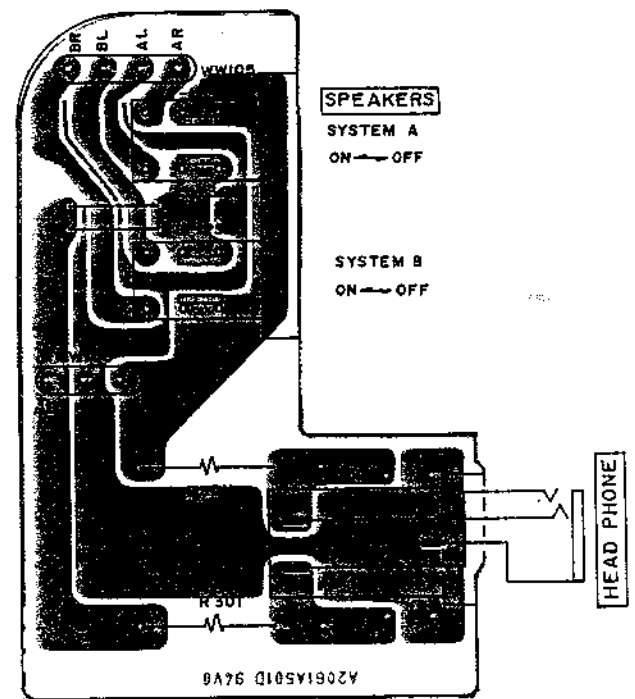
POWER LED PCB  
A2069A501F



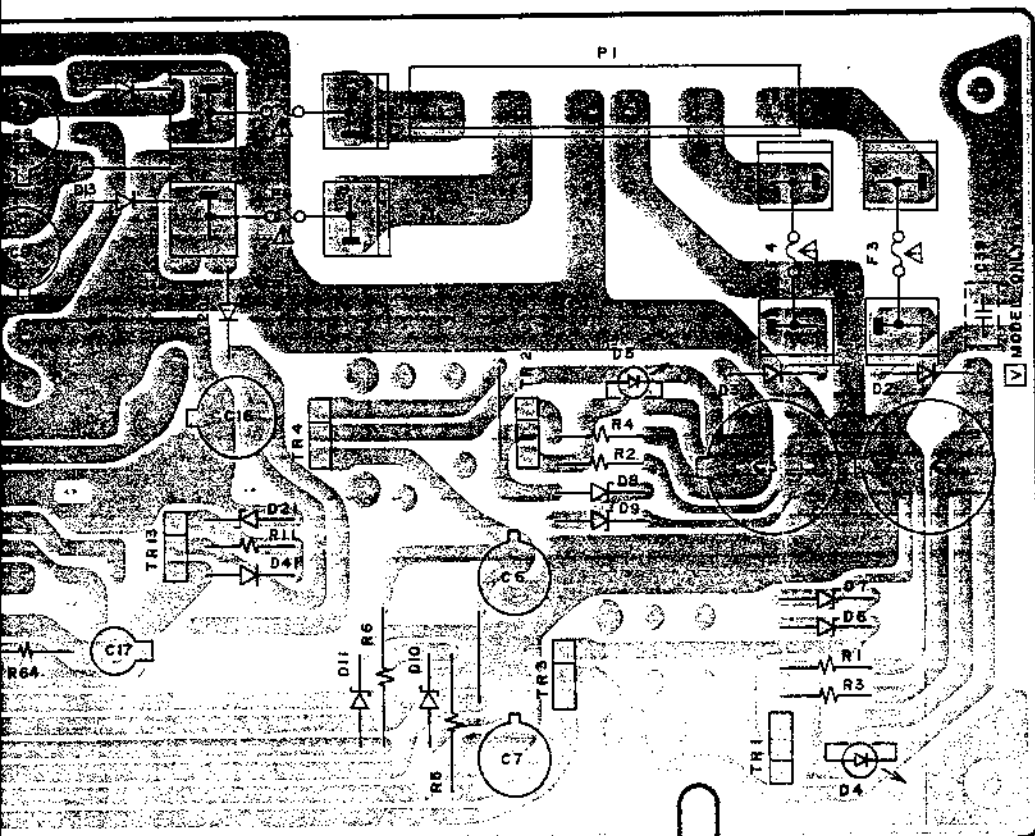
THERMO PCB A2061A501F



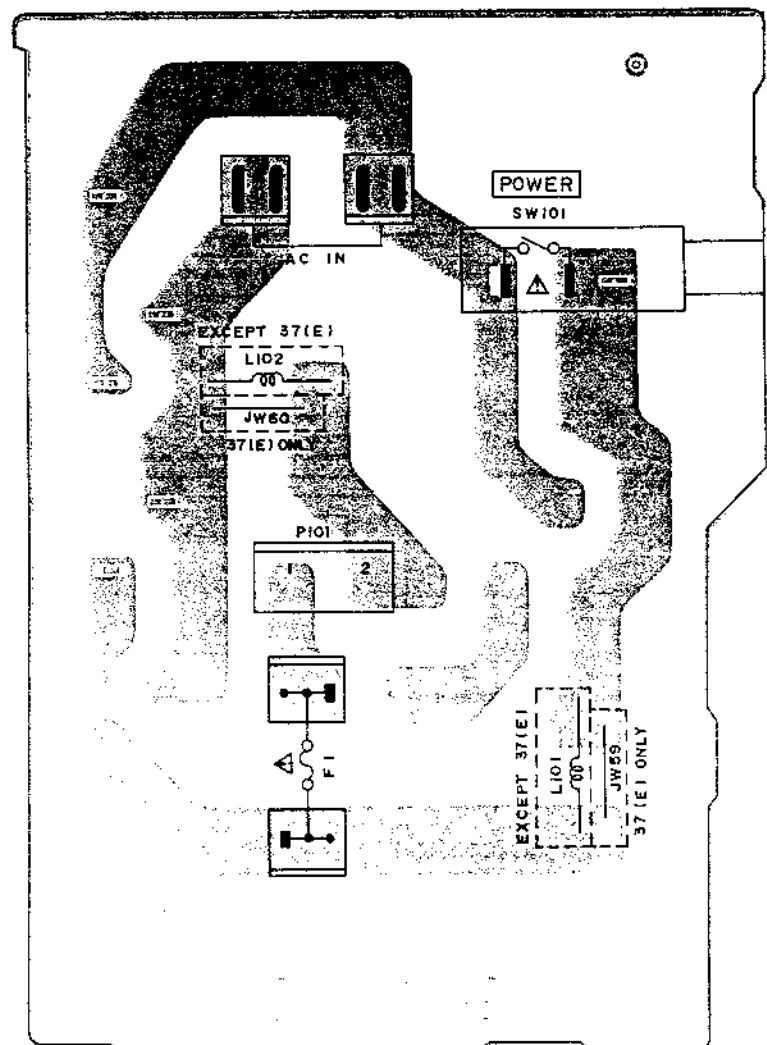
TERMINAL PCB A2061A501C



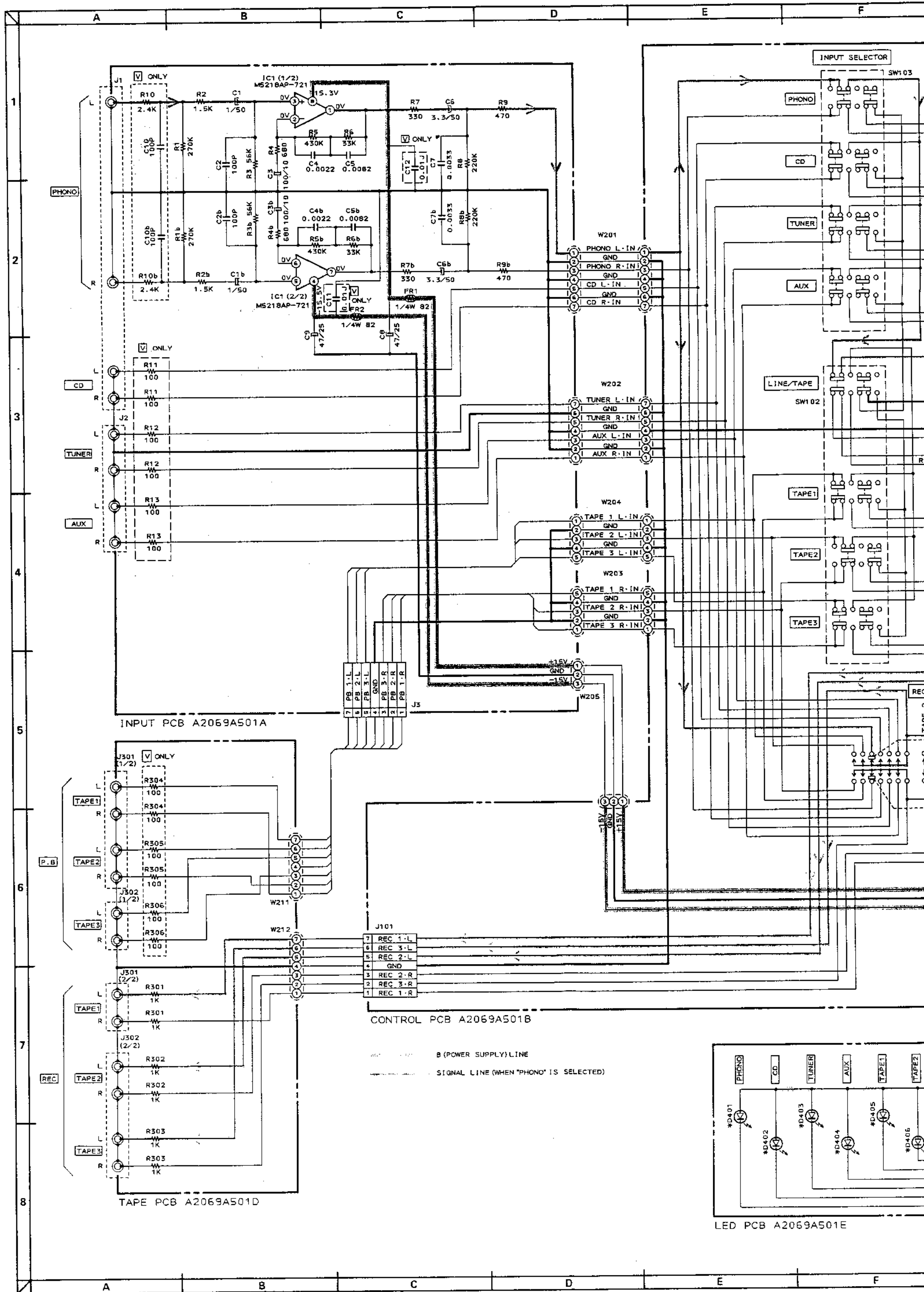
SPEAKER SW PCB  
A2061A501D

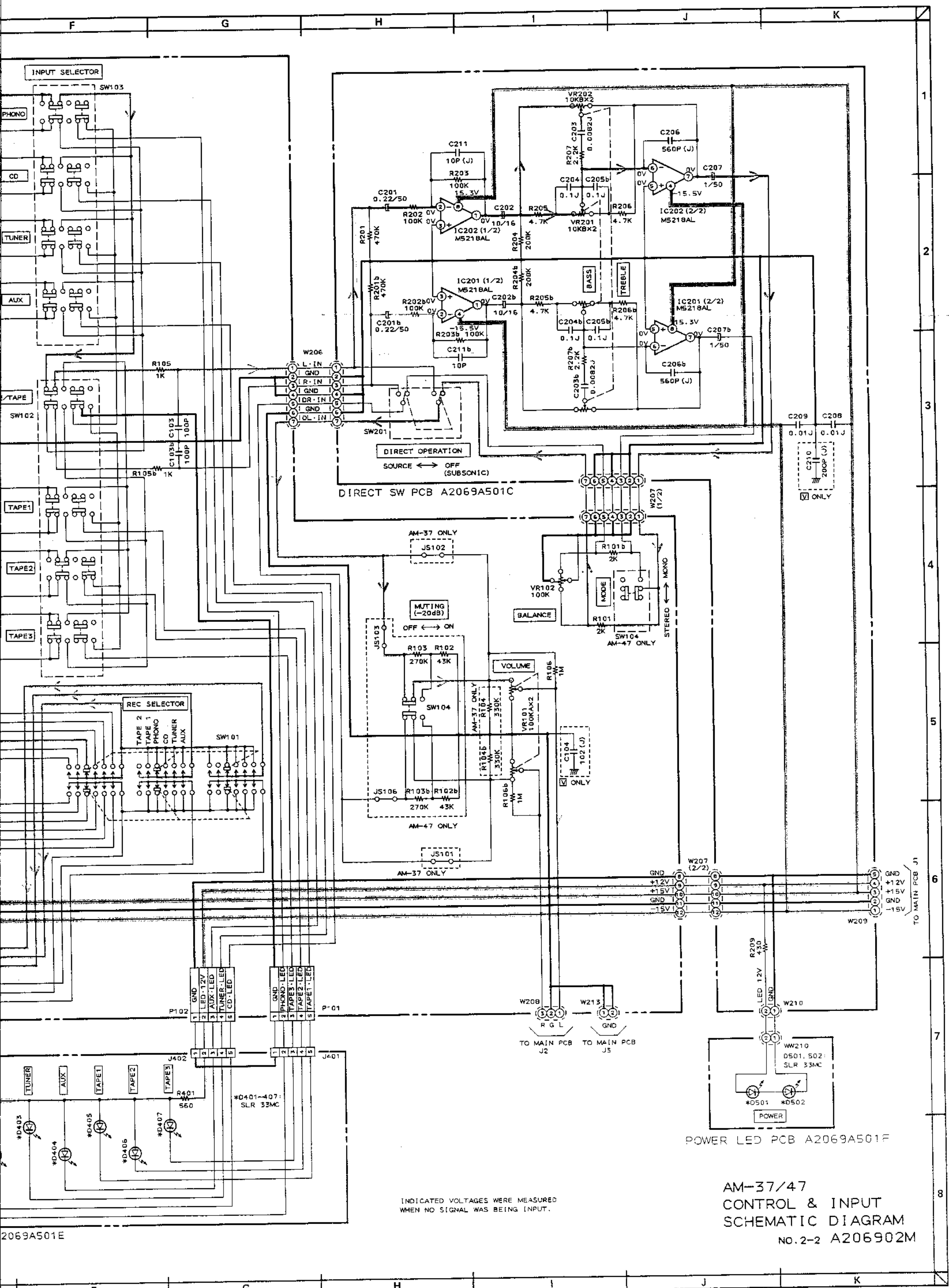


WARNING:  $\Delta$  INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS  
 AVERTISSEMENT:  $\Delta$  IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



FUSE PCB A2061A501B



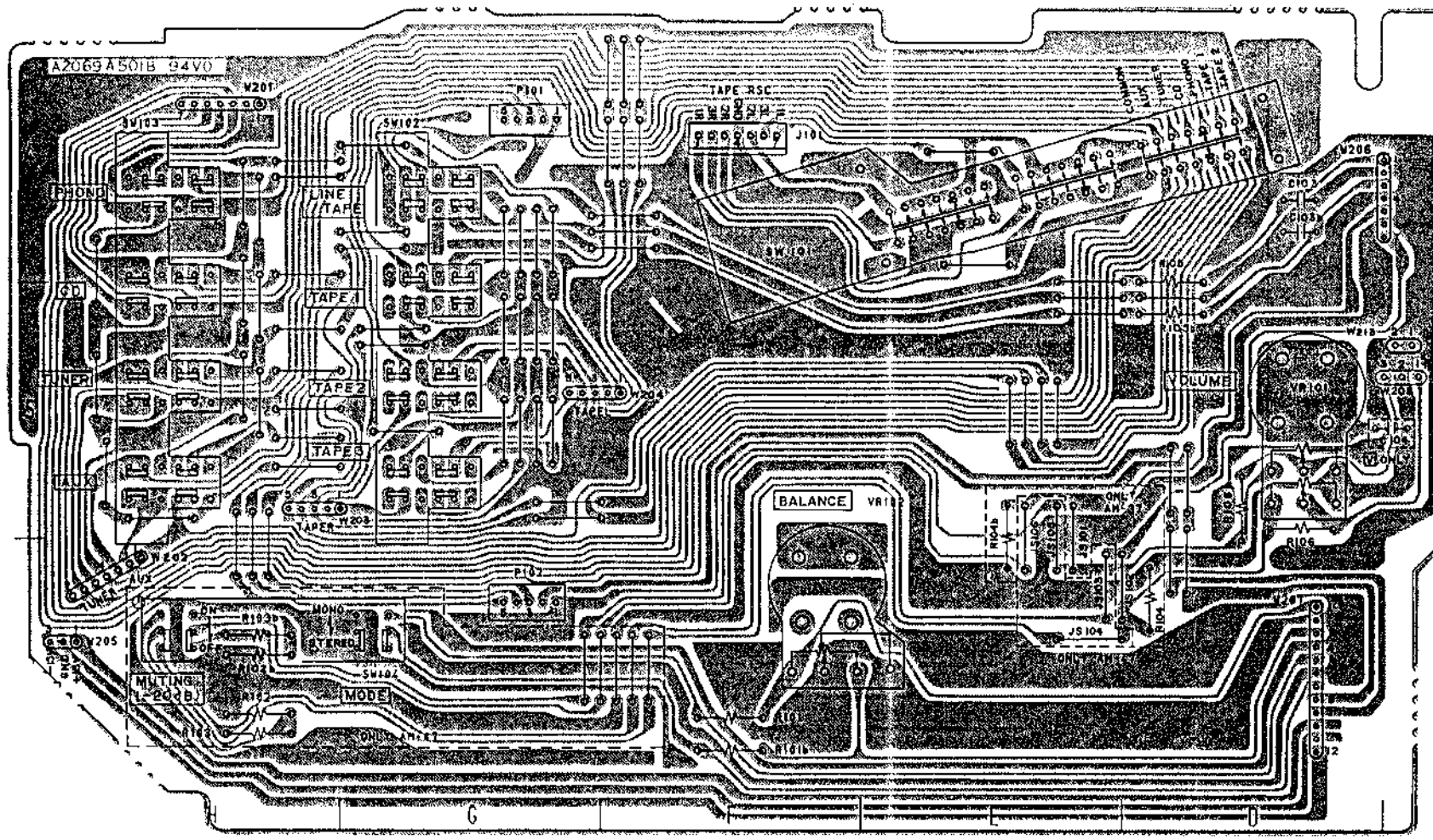


INDICATED VOLTAGES WERE MEASURED WHEN NO SIGNAL WAS BEING INPUT.

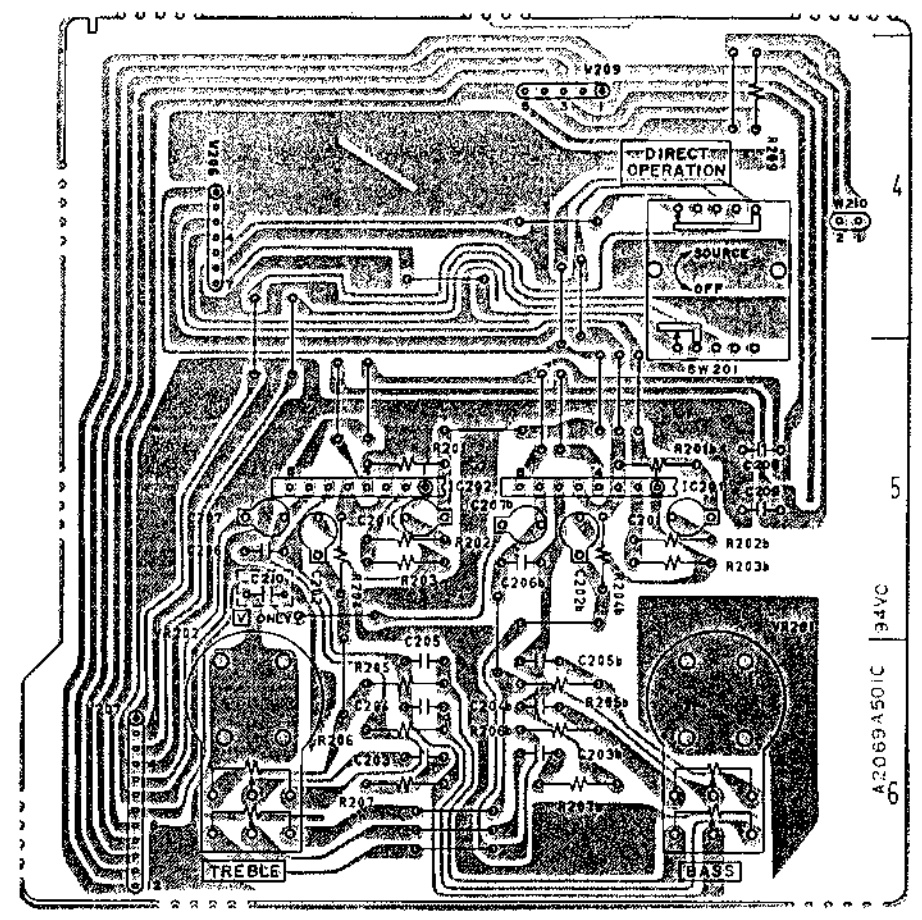
AM-37/47  
CONTROL & INPUT  
SCHEMATIC DIAGRAM  
No. 2-2 A206902M

2069A501E

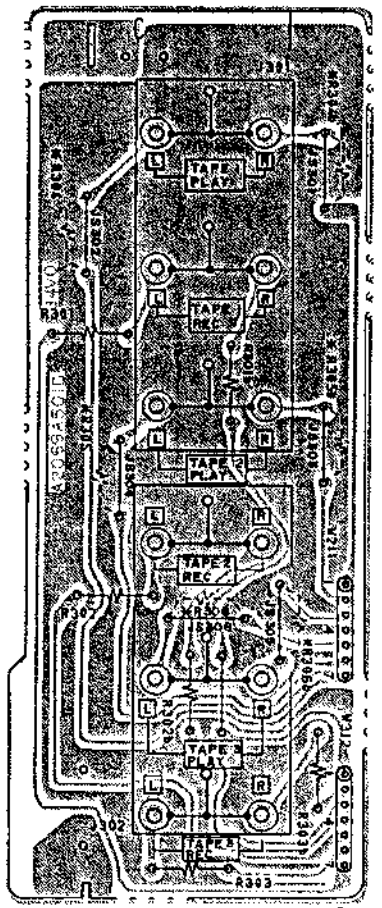




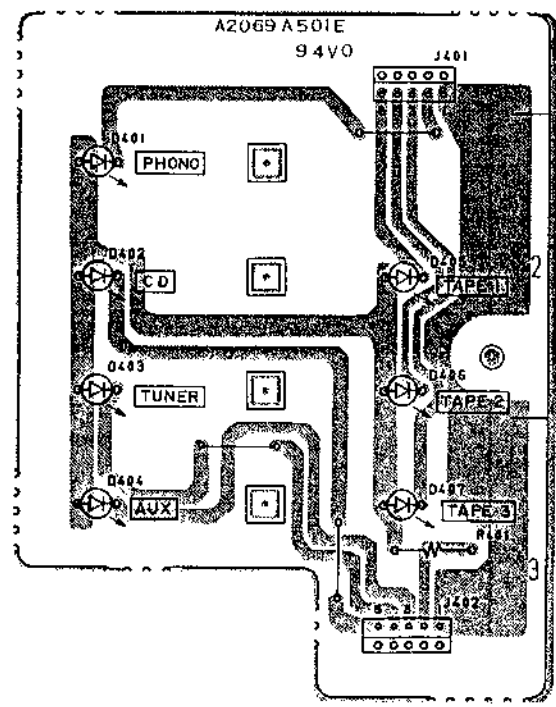
CONTROL PCB A2069A501B



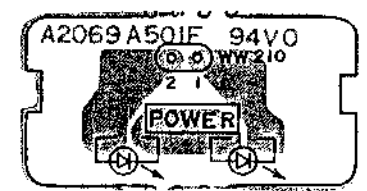
DIRECT SW PCB A2069A501C



TAPE PCB A2069A501D

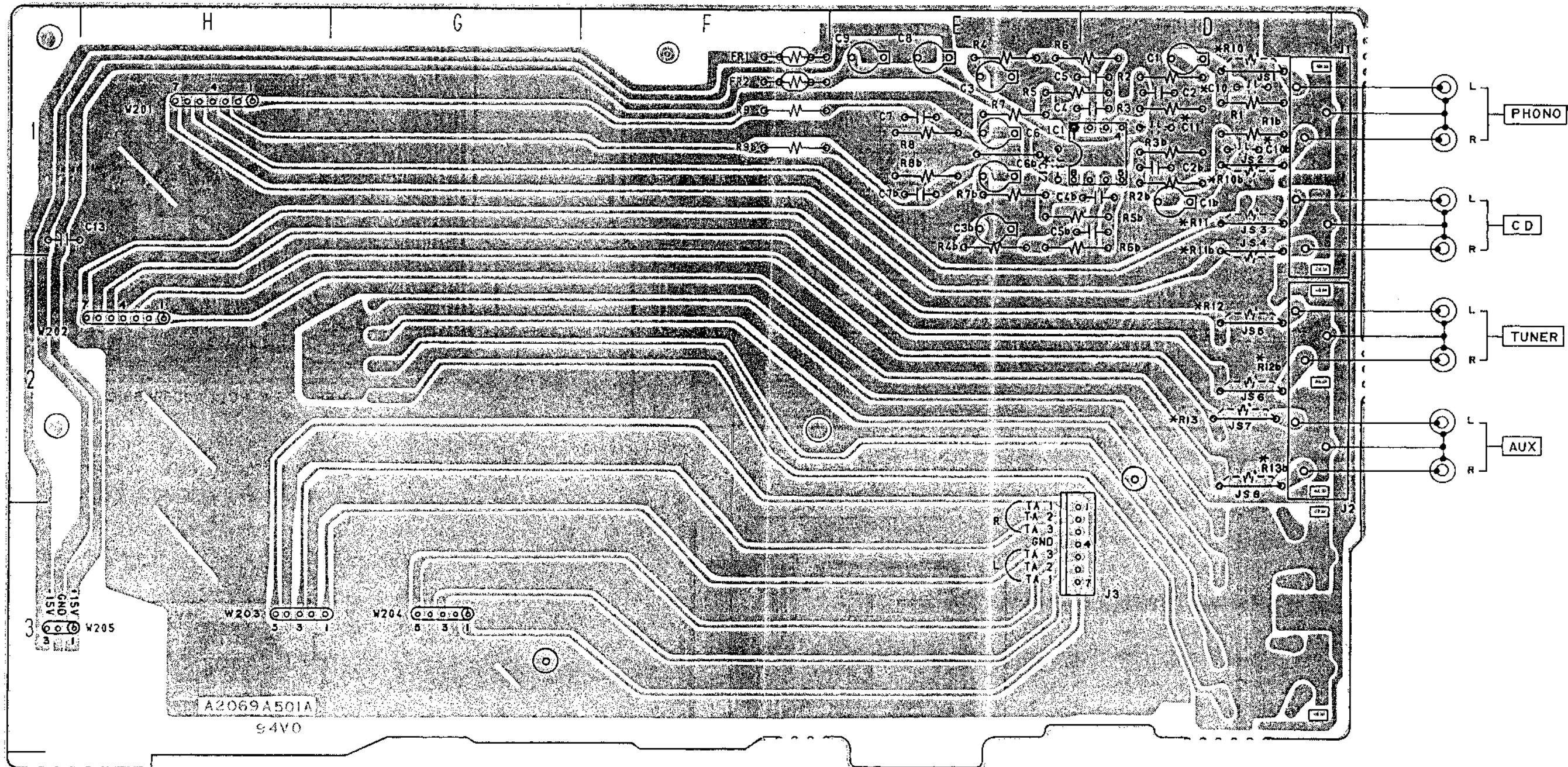


LED PCB A2069A501E



POWER LED PCB A2069A501F

NOTE: PARTS INDICATED WITH \* MARK ARE USED FOR MODEL ONLY. JS301 to JS306 ARE USED FOR [B] AND [E] MODELS.



INPUT PCB A2069A501A

NOTE : PARTS INDICATED WITH \* MARK ARE USED FOR [V] MODEL ONLY.  
 JS1 to JS8 ARE USED FOR [B] AND [E] MODELS.