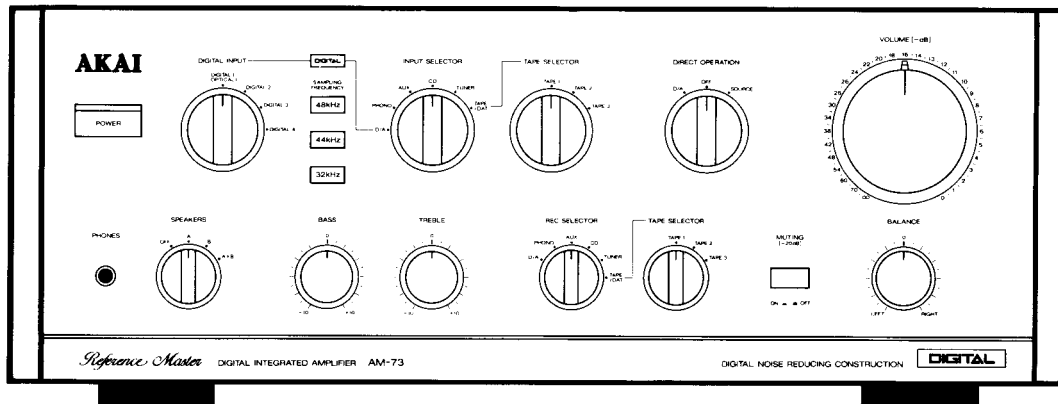


AKAI SERVICE MANUAL



DIGITAL INTEGRATED AMPLIFIER

MODEL AM-73

SPECIFICATIONS

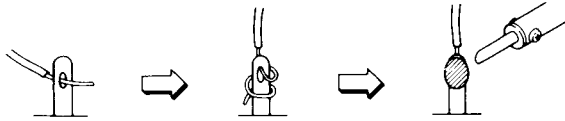
| | | | |
|------------------------------|--|-------------------------------|--------------------------------|
| Power output..... | 150 W + 150 W (DIN, 4 ohms) 100 W + 100 W (FTC, 8 ohms) | Channel separation ... | 60 dB |
| Power band width | 10 Hz to 60 kHz/0.1% | Audio mute | -20 dB |
| Total harmonic distortion .. | 0.008% (1 kHz, 8 ohms) | Required speaker impedance | |
| Phone max. input level | 250 mV (MM) | A or B | 6 to 16 ohms |
| Frequency response... | 3 Hz to 100 kHz (+0 dB, -3 dB) | A and B | 12 to 16 ohms |
| Tone control | | Sampling frequency... | 32 kHz/44.1 kHz/48 kHz |
| TREBLE | ±10 dB (10 kHz) | Digital filter | 4 fs, 16 bit |
| BASS | ±10 dB (100 Hz) | D/A converter | 16 bit, 2 DAC |
| Input sensitivity/Impedance | | Digital input level/Impedance | |
| PHONO (MM)..... | 2.5 mV/47 kohms | COAXIAL | 0.5 Vp-p/75 ohms |
| TUNER, etc..... | 150 mV/47 kohms | OPTICAL | -14 to -23 dBm |
| Output level/Impedance | | Frequency response .. | 5 Hz to 20 kHz (±0.3 dB) |
| TAPE REC OUT... | 150 mV/1 kohms | Dynamic range | 95 dB |
| Damping factor | 30 (1 kHz) | Total harmonic distortion .. | 0.003% |
| Residual noise | 0.5 mV | Channel separation ... | 115 dB |
| S/N | | Dimensions | 461 (W) × 177 (H) × 452 (D) mm |
| PHONO (MM)..... | 85 dB | Standard accessories | |
| TUNER, etc..... | 100 dB | operators manual | 1 |
| | | Weight | 17.7 kg (38.9 lbs) |

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

★ SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

- Parts identified by the Δ (*) symbol parts are critical for safety. Replace only with parts number specified.
- 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.
- Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- 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 microswitch (especially in turntable)
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



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

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

SAFETY CHECK AFTER SERVICING

Confirm the specified insulation resistance between power cord plug prongs and externally exposed parts of the set is greater than 10 M ohms. but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for C or A, specified insulation resistance should be headphone jacks line-in-out jacks etc. more than 2.2 M ohms (ground terminals, microphone jacks).

★ INFORMATION

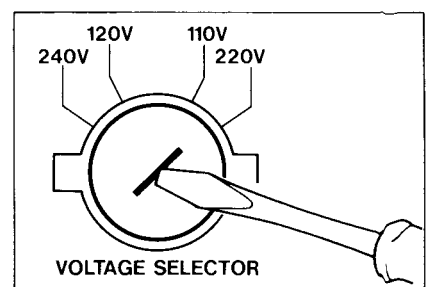
SYMBOLS FOR PRIMARY DESTINATION

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 | W. Germany only |
| U | Universal Area |
| Y* | Custom version |

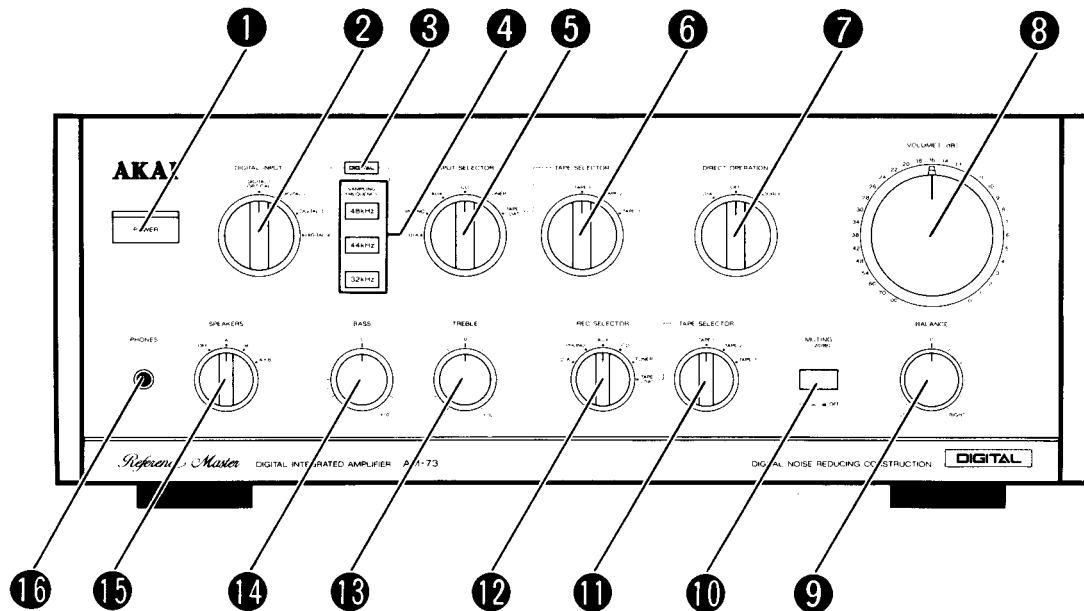
VOLTAGE CONVERSION (**U** Model only)

Before connecting the power cord. SET the VOLTAGE SELECTOR located on the rear panel with a screwdriver so that the correct voltage is indicated.



I. CONTROLS

1-1. FRONT PANEL



1 POWER Button and Indicator

To turn the power on and off.
The indicator will flash on and off when the speaker protection circuit is engaged.

2 DIGITAL INPUT Switch (DIGITAL 1. (OPTICAL), DIGITAL 2/3/4)

To select the digital input source.

3 DIGITAL Indicator

Tells you the INPUT SELECTOR switch or the DIRECT OPERATION switch is set to D/A.

4 SAMPLING FREQUENCY Indicators

(32 kHz/44 kHz/48 kHz)
Tells you the sampling frequency of the digital source being played back.

5 INPUT SELECTOR Switch

To select the playback source you wish to listen to.

6 TAPE SELECTOR Switch

To select the cassette deck or DAT deck being used for playback.

7 DIRECT OPERATION Switch

To select the playback operation mode. If you wish to use the BASS, TREBLE or BALANCE controls, set the switch to OFF.

8 VOLUME Control (-dB: minus decibel)

To adjust the volume level. The 0 dB (zero decibel) position is the maximum volume output of the amplifier.

9 BALANCE Control

To adjust the left and right channel balance.
Normally set the control to 0.

10 MUTING Switch

To reduce the volume instantly during playback without using the VOLUME control.

11 TAPE SELECTOR Switch

To select the cassette deck or DAT deck being used for recording.

12 REC SELECTOR Switch

To select the playback source for recording.

13 TREBLE Tone Control

To adjust the high note (treble) level. When set to 0, the control is ineffective.

14 BASS Tone Control

To adjust the low note (bass) level. When set to 0, the control is ineffective.

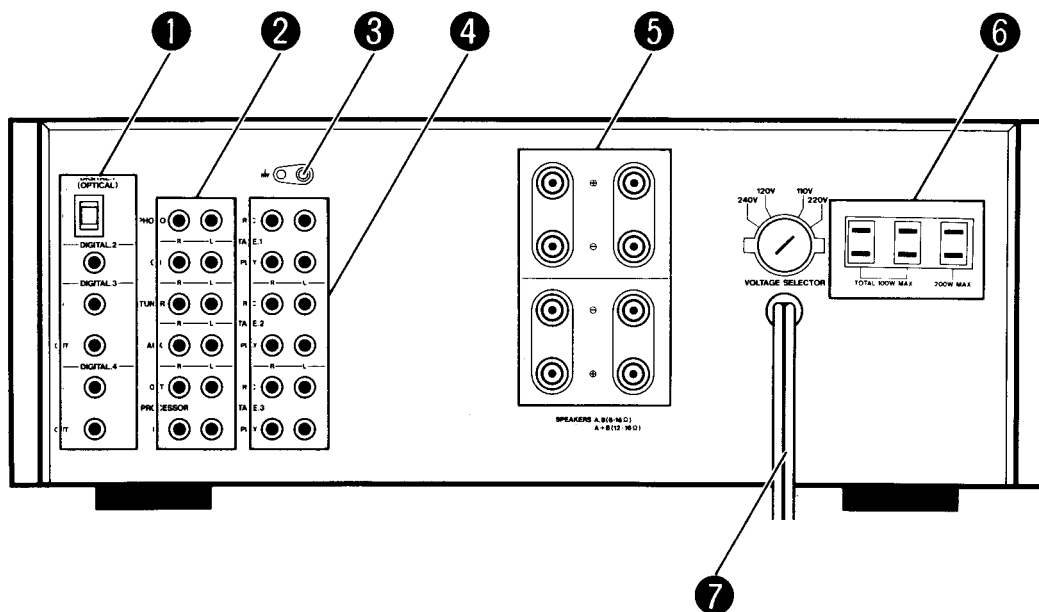
15 SPEAKERS Switch

To select the speaker system.
For headphone listening, set the switch to OFF. When using two pairs of speaker systems at the same time, set the switch to A+B.

16 PHONES Jack

For headphone listening.
Connect the headphone plug to the jack.

1-2. REAR PANEL



1 Digital Signal Connection Terminal and Jacks

For connection of components with DIGITAL INPUT or OUTPUT jacks.

DIGITAL.1 (OPTICAL) IN Terminal and terminal cap

Use this terminal when connecting a CD player or DAT deck that has an optical output terminal. (Use an optical fiber cable available in hi-fi stores for connections).

DIGITAL. 2 IN Jack

Use this jack when connecting a CD player or DAT deck that has a digital coaxial output jack. (Use an optical or digital video connection cable available in hi-fi stores for connections).

DIGITAL. 3, 4 IN and OUT Jacks

Use these jacks when connecting a DAT deck that has digital coaxial input and output jacks. (Use an optical or digital video connection cable available in hi-fi stores for connections).

The DIGITAL OUT jack can be used for connection of a DAT deck for digital tape dubbing or a DSP (Digital Sound Processor).

2 Analog Connection Jacks

These jacks are for conventional signal (analog) connections. The white PIN-jacks are for left channel connections and the red PIN-jacks are for right channel connections.

PHONO Jacks

Connect the output PIN-plug cord of a turntable to these jacks.

CD Jacks

Connect the OUTPUT jacks of a CD player to these jacks with an audio PIN-plug cord.

TUNER Jacks

Connect the OUTPUT jacks of a tuner to these jacks with an audio PIN-plug cord.

AUX Jacks

Connect the OUTPUT jacks of an auxiliary source such as a cassette deck, DAT deck or CD player to these jacks with an audio PIN-plug cord.

PROCESSOR IN and OUT Jacks/Short pins

For connection of a graphic equalizer or surround processor with an audio PIN-plug cord.

Remove the two short pins from these jacks before connecting. Leave these pins in place when a graphic equalizer or surround processor is not connected to these jacks.

3 (Earth) Terminal

If your turntable has an earth wire, connect it to this terminal.

4 Analog Tape Connecting Jacks

For connection of cassette decks or DAT decks that have analog OUTPUT and INPUT jacks.

TAPE. 1, TAPE. 2 and TAPE. 3 Jacks (REC/PLAY)

Connect the INPUT jacks of a cassette deck or DAT deck to the REC jacks with an audio PIN-plug cord.

Connect the OUTPUT jacks of a cassette deck or DAT deck to the PLAY jacks with an audio PIN-plug cord.

5 SPEAKERS A, B Terminals

For speaker system connections. The A terminals correspond to the A position of the SPEAKERS switch and the B terminals correspond to the B position. Red terminals are the + (plus) terminals and black terminals are the - (minus) terminals.

6 AC OUTLETS (Not on all models)

For connection of audio equipment power cords (tuner, CD player, cassette deck, DAT deck etc.).

The maximum connected power consumption is 300 Watts. Do not exceed the maximum power consumption indicated on the rear panel of the amplifier.

The UNSWITCHED outlets supply power when the power cord of the amplifier is connected to a household AC outlet. The power to the SWITCHED outlet is turned on and off by the amplifier's POWER switch.

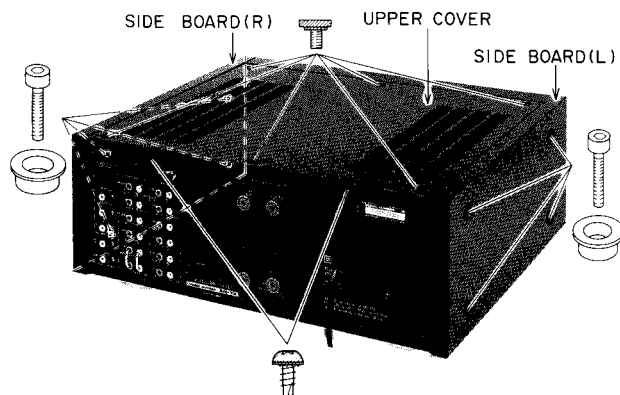
7 Power cord and plug

Connect to a household AC outlet. If you wish to use an audio timer, connect the power cord to the timer's AC outlet.

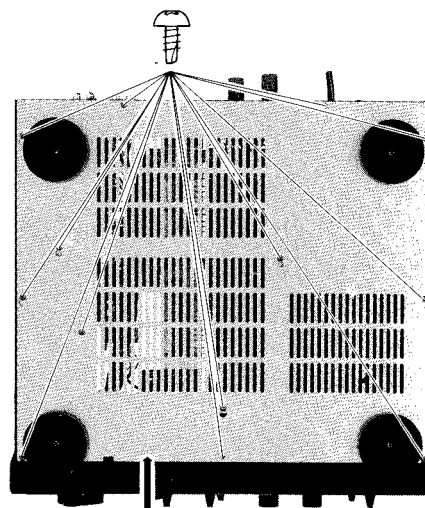
II. DISASSEMBLY

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

1. Removal of UPPER COVER

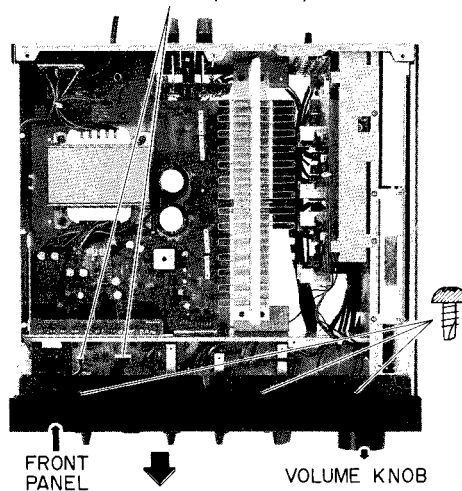


2. Removal of BOTTOM PLATE & FRONT PANEL



BOTOM PLATE

3. CONNECTORS (J1 & J2)



※ Disconnect CONNECTORS (J1 & J2) and remove VOLUME KNOB first, then remove FRONT PANEL next.

III. PRINCIPAL PARTS LOCATION

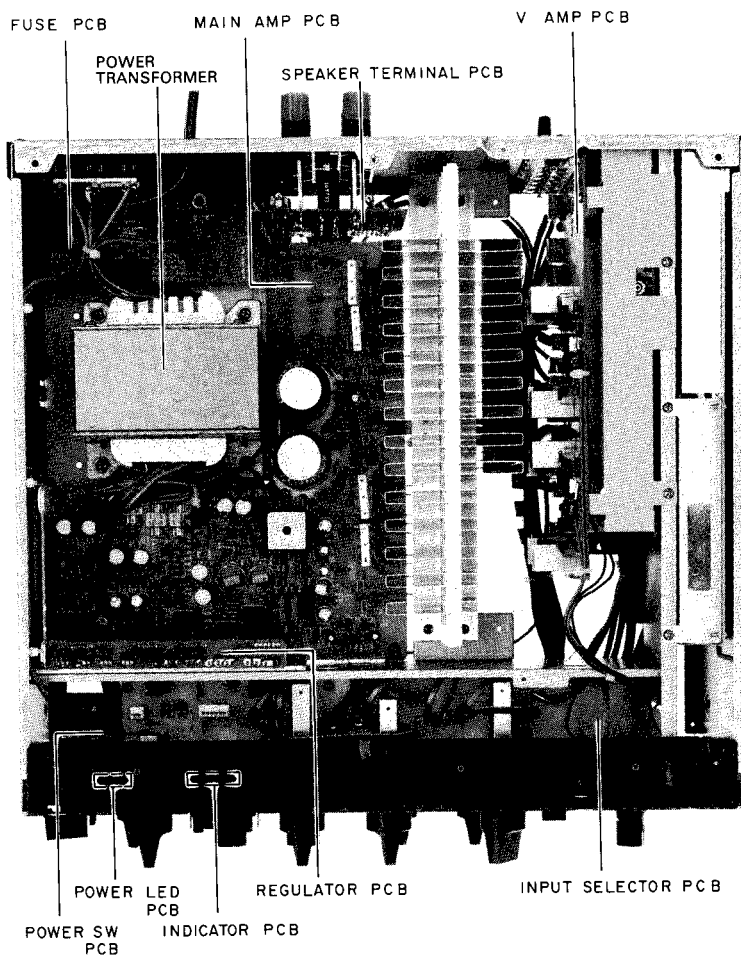


Fig. 3-1 Top View

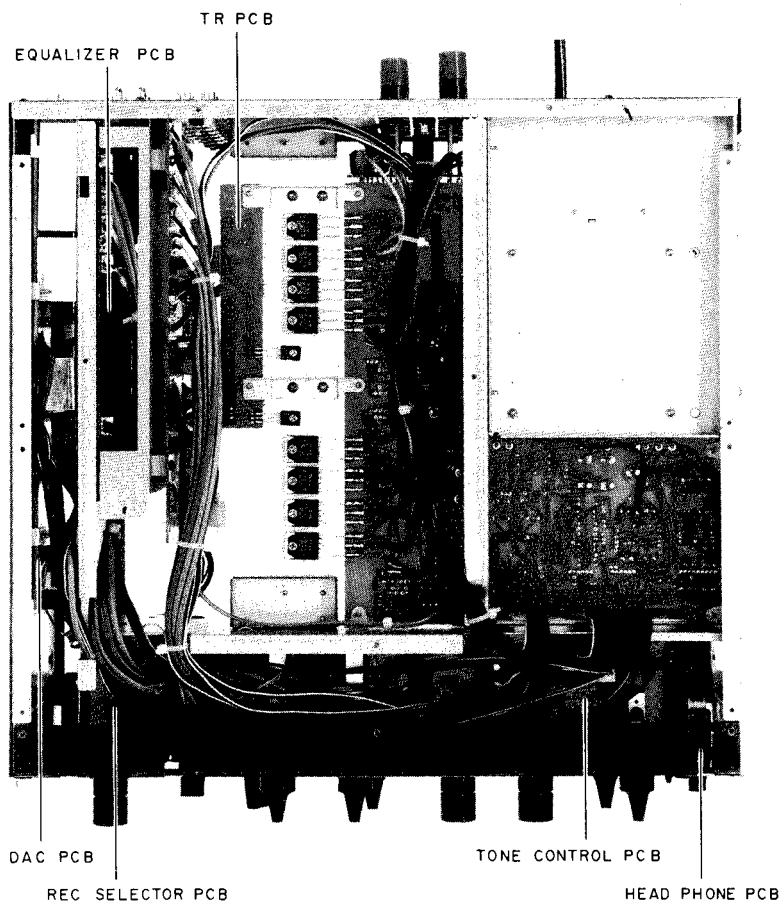


Fig. 3-2 Bottom View

IV. ELECTRICAL ADJUSTMENT

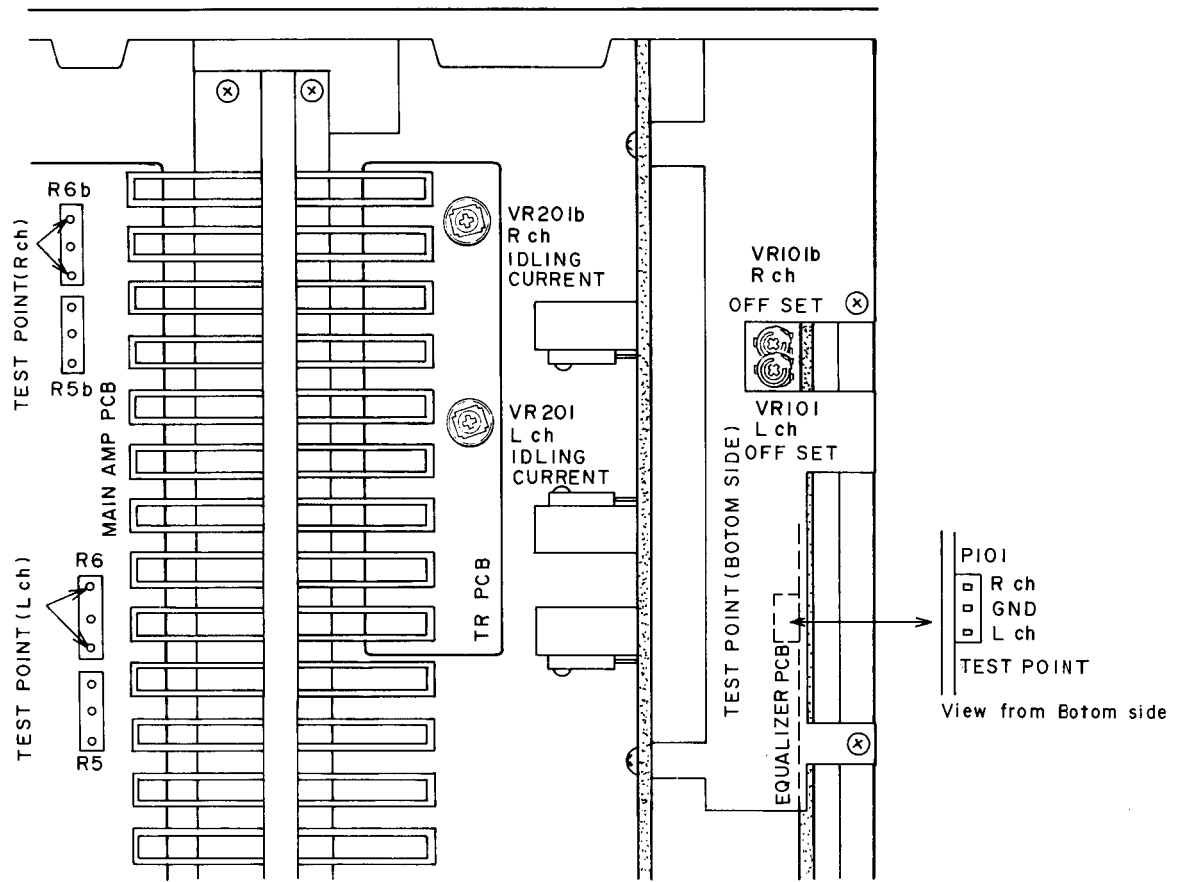


Fig. 4-1 Idling current, OFF-SET Adjustment parts and Test points

4-1. IDLING CURRENT ADJUSTMENT (Refer to Fig. 4-1)

NOTE: This adjustment should be made after 5 minutes passed from turning the power on.

- 1) Connect the Digital DC Voltmeter between both ends of cement type resistor R5 or R6 (L-CH), R5b or R6b (R-CH) on the MAIN AMP PCB.
- 2) Adjust VR201 (L-CH), VR201b (R-CH) on the TR PCB, so that the reading on the Digital DC Voltmeter is 30 mV.

4-2. OFF-SET ADJUSTMENT OF PHONO AMPLIFIER (Refer to Fig. 4-1)

NOTE: This adjustment should be made after 5 minutes passed from turning the power on.

- 1) Connect the Digital DC Voltmeter between Pin ① (L-CH), Pin ③ (R-CH) and Pin ② (GND) on the EQUALIZER PCB.
- 2) Adjust VR101 (L-CH), VR101b (R-CH) on the EQUALIZER PCB, so that the reading on the Digital DC Voltmeter is 0 V.

4-3. DISTORTION ADJUSTMENT OF D/A CONVERTOR

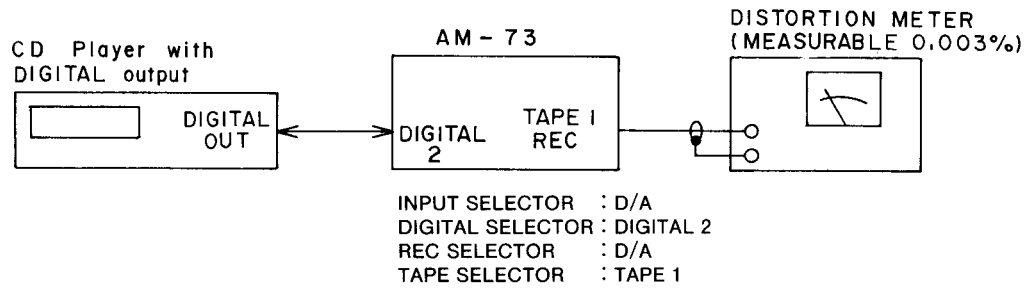


Fig. 4-2 Instrument connection

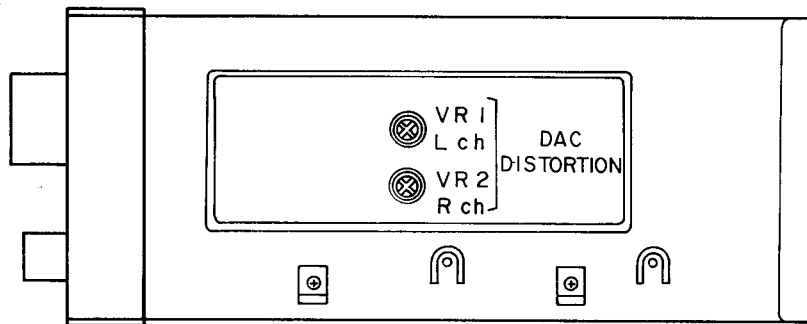


Fig. 4-3 Adjustment part of DAC PCB

- 1) Connect a CD player which has a digital output terminal to DIGITAL 2 IN, and connect Distortion meter to TAPE 1 REC Terminal.
- 2) Set the Selector switches on the Front panel as follow.

| | |
|-------------------|-----------|
| INPUT SELECTOR: | D/A |
| DIGITAL SELECTOR: | DIGITAL 2 |
| REC SELECTOR: | D/A |
| TAPE SELECTOR: | TAPE 1 |
- 3) Insert a test disc TYPE III (AT-711881) into CD PLAYER and play it 1 kHz.
- 4) Adjust VR1 (L-CH), VR1b (R-CH) on the DAC PCB so that the reading on the Distortion meter is at minimum (less than 0.01%).

V. 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

b) PC Board

2. HEAD BASE BLOCK

| REF. NO. | PART NO. | DESCRIPTION |
|----------|---------------|--------------------|
| 2-1x | BH-T2023A320A | HEAD BASE BLOCK |
| 2-2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 2-3 | ZS-477876 | PAN20x03STL CMT |
| 2-4 | ZS-536488 | BID20x08STL CMT |
| 2-5 | ZG-402895 | SP CS ANGLE ADJUST |

- SP (Service Parts) Classification
- A small "x" indicates that this part is not shown in the Photo or Illustration.
- This number corresponds with the individual parts index number in that figure.
- This number corresponds with the Figure Number.

6. MAIN PC BOARD

| REF. NO. | PART NO. | DESCRIPTION |
|----------|-----------|------------------------------|
| 6-IC1 | EI-324536 | IC HD14049BP |
| 6-IC2 | EI-336801 | IC MB8841-564M |
| 6-C1A | EC-338399 | C MMY V 223M 250AC [U,E,B,S] |
| 6-C1B | EC-350949 | C MMY V 223M 250DC [J] |
| 6-C1C | EC-338397 | C MMY V 223M 125AC [C.A.] |
| 6-X1 | EI-318384 | OSC X'TAL NC-18C |

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

| Ref. No. | Part No. | Description |
|----------|-------------|--|
| 1 | BT-368261 | TRANS PULSE TC-1027-04 |
| 2 | ED-356424 | D LED BG5525S GREEN |
| 3 | ED-382620J | D LED PG5562X GREEN |
| 4 | ED-382611J | D LED PY5504S YELLOW |
| 5 | ED-361885 | D LED SLP-384C-51 GREEN |
| 6 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| 7 | ED-348990 | D SILICON H DS446 |
| 8 | ED-301911 | D SILICON H DS448 |
| 9 | *ED-382668J | D SILICON PB-112F |
| 10 | ED-346560 | D ZENER H HZ12L B3 |
| 11 | ED-346564 | D ZENER H HZ15L 1 |
| 12 | ED-377933 | D ZENER H HZ27L 3 F10 |
| 13 | ED-381270J | D ZENER H HZ33L 1 F10 |
| 14 | ED-343410 | D ZENER H HZ6L A1 |
| 15 | ED-346529 | D ZENER H HZ6L C2 |
| 16 | ED-351418 | D ZENER H HZ7L B1 |
| 17 | *EF-355226 | FUSE BET T 250V 1.00A [B] |
| 18 | *EF-359086 | FUSE BET T 250V 4.00A [B] |
| 19 | *EF-623103 | FUSE SEMKO T 250V 1.00A [E,V] |
| 20 | *EF-690996 | FUSE SEMKO T 250V 4.00A [E,V] |
| 21 | *EF-306952 | FUSE TSC A 250V 4.00A [U] |
| 22 | *EF-327103 | FUSE TSC A 250V 500MA [U] |
| 23 | *EF-309388 | FUSE TSC A 250V 800MA [U] |
| 24 | *EF-309390 | FUSE TSC 125V 500MA [C,A] |
| 25 | *EF-345658 | FUSE TSC 125V 8.00A [C,A] |
| 26 | *EF-309391 | FUSE TSC 125V 800MA [C,A] |
| 27 | EI-381282J | IC CXD-1162P |
| 28 | EI-345474 | IC HA12002 |
| 29 | EI-375346 | IC MM74HCO4N |
| 30 | EI-344764 | IC M5218P-21 |
| 31 | EI-362588 | IC M5238P |
| 32 | EI-377191 | IC NJM5532D-D |
| 33 | EI-368612 | IC PCM56P |
| 34 | EI-360040 | IC TC74HCU04P |
| 35 | EI-360037 | IC TC74HCO0P |
| 36 | EI-360039 | IC TC74HC08P |
| 37 | EI-356049 | IC TC74HC139P |
| 38 | EI-378921J | IC TC74HC151P |
| 39 | EI-379997J | IC YM3623B |
| 40 | EI-374176 | OSC X'TAL AT-51 16.9344MHZ |
| 41 | EJ-379983J | TERMINAL W/SCREW YKD31-0338 8P [SPEAKER TERMINAL] |
| 42 | EQ-379982J | RELAY POW G5R-2282P 2NO 48V |
| 43 | EQ-348929 | RELAY SIG G5A-237P 2TR 12V |
| 44 | ER-368226 | R CT P R33+R33 5W |
| 45 | *ES-355407 | SW PUSH ESB-99713V TV-8 [POWER SW] |
| 46 | ES-378941J | SW PUSH SPUL12 2-04-02S [MUTE] |
| 47 | ES-379984J | SW ROTARY SRRZS4 2-04-04N [SPEAKER SELECTOR] |
| 48 | ES-379986J | SW ROTARY SRRZS6 2-06-06N [REC SELECTOR] |
| 49 | ES-379988J | SW ROTARY SRRZS8 2-08-03N [TAPE SELECTOR] |
| 50 | ET-360646 | TR DTA143ES |
| 51 | ET-354371 | TR DTC124ES |
| 52 | ET-357162 | TR FET 2SJ74 GR,BL,V |
| 53 | ET-354897 | TR FET 2SK170 BL,GR,V |
| 54 | *ET-359827 | TR FET 2SK246 BL |
| 55 | *ET-338244 | TR 2SA1207 R,S |
| 56 | ET-345460 | TR 2SA1208 R,S,T |
| 57 | ET-348829 | TR 2SA1209 S,T |
| 58 | *ET-345626 | TR 2SA1248 S,T |
| 59 | ET-352726 | TR 2SA1392 T,U |
| 60 | *ET-368757 | TR 2SA1490 P,Y |

| Ref. No. | Part No. | Description |
|----------|------------|--|
| 61 | *ET-368758 | TR 2SA1491 P,Y |
| 62 | *ET-348830 | TR 2SC2909 S,T |
| 63 | ET-370038 | TR 2SC2910 S,T |
| 64 | ET-348831 | TR 2SC2911 S,T |
| 65 | *ET-345625 | TR 2SC3116 S,T |
| 66 | ET-360067 | TR 2SC3330 T,U F05 |
| 67 | ET-349081 | TR 2SC3383 S,T |
| 68 | *ET-368759 | TR 2SC3854 P,Y |
| 69 | *ET-368760 | TR 2SC3855 P,Y |
| 70 | *ET-349459 | TR 2SD1406 O,Y,GR |
| 71 | EV-379987J | SW ROTARY SRRZS6 2-06-03N [TAPE SELECTOR] |
| 72 | EV-379994J | VR ROTARY RK1631110 SPL W104 [BALANCE] |
| 73 | EV-379992J | VR ROTARY RK1631210 C104X2 [BASS CONTROL] |
| 74 | EV-379993J | VR ROTARY RK1631210 C104X2 [TREBLE CONTROL] |
| 75 | EV-379989J | VR ROTARY RK16314A0 A104X4 [MAIN VOLUME] |

2. P.C BOARD BLOCK

| Ref. No. | Part No. | Description |
|----------|---------------|--|
| 1A | BA-A2057A020A | PC(##) MAIN BLK AM-73(U) [U] |
| 1B | BA-A2057A020C | PC(##) MAIN BLK AM-73(C) [C,A] |
| 1C | BA-A2057A020D | PC(##) MAIN BLK AM-73(E) [E,B] |
| 1D | BA-A2057A020E | PC(##) MAIN BLK AM-73(V) [V] |
| 2A | BA-A2057A030A | PC(##) VAMP BLK AM-73(U) [U,C,A,E,B] |
| 2B | BA-A2057A030C | PC(##) VAMP BLK AM-73(V) [V] |
| 3A | BA-A2057A040A | PC(##) INPUT BLK AM-73(U) [U,C,A,E,B] |
| 3B | BA-A2057A040B | PC(##) INPUT BLK AM-73(V) [V] |
| 4 | BA-A2057A050A | PC DAC BLK |

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

- * MAIN AMP P.C BOARD
- * SPEAKER TERMINAL P.C BOARD
- * FUSE P.C BOARD
- * POWER SW P.C BOARD
- * INDICATOR P.C BOARD
- * POWER LED P.C BOARD
- * HEADPHONE P.C BOARD
- * REGULATOR P.C BOARD

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

- * V-AMP P.C BOARD
- * EQUALIZER P.C BOARD
- * TR P.C BOARD

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

- * INPUT P.C BOARD
- * TONE CONTROL P.C BOARD
- * REC SELECTOR P.C BOARD

3. MAIN AMP P.C BOARD

| Ref. No. | Part No. | Description |
|----------|-------------|----------------------------------|
| C1 | EC-381263J | C EC V SNP 103M 63.0DC |
| C2 | EC-381263J | C EC V SNP 103M 63.0DC |
| C11 | EC-324074 | C EC V CUT AS1 101M 63.0DC |
| C12 | EC-324074 | C EC V CUT AS1 101M 63.0DC |
| C13 | EC-380325J | C PP V MKP1841 104J 250DC |
| C14 | EC-380325J | C PP V MKP1841 104J 250DC |
| C17 | EC-201636 | C EC V CUT AS1 470M 100DC |
| C18 | EC-201636 | C EC V CUT AS1 470M 100DC |
| C28 | EC-378515J | C PP V F05 CSF3 513J 125DC |
| D1 | *ED-382668J | D SILICON PB-112F |
| D2 | ED-348990 | D SILICON H DS446 |
| D3 | ED-348990 | D SILICON H DS446 |
| D4 | ED-348990 | D SILICON H DS446 |
| D5 | ED-348990 | D SILICON H DS446 |
| D6 | ED-348990 | D SILICON H DS446 |
| D7 | ED-301911 | D SILICON H DS448 |
| D8 | ED-301911 | D SILICON H DS448 |
| D9 | ED-301911 | D SILICON H DS448 |
| D10 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D11 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D12 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D13 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D14 | ED-356424 | D LED BG5525S GREEN |
| D15 | ED-356424 | D LED BG5525S GREEN |
| D16 | ED-377933 | D ZENER H HZ27L 3 F10 |
| D17 | ED-377933 | D ZENER H HZ27L 3 F10 |
| D18 | ED-377933 | D ZENER H HZ27L 3 F10 |
| D19 | ED-377933 | D ZENER H HZ27L 3 F10 |
| D20 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D21 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D22 | ED-356424 | D LED BG5525S GREEN |
| D23 | ED-356424 | D LED BG5525S GREEN |
| D24 | ED-381270J | D ZENER H HZ33L 1 F10 |
| D25 | ED-381270J | D ZENER H HZ33L 1 F10 |
| D26 | ED-381270J | D ZENER H HZ33L 1 F10 |
| D27 | ED-381270J | D ZENER H HZ33L 1 F10 |
| D28 | ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D29 | ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D30 | ED-356424 | D LED BG5525S GREEN |
| D31 | ED-356424 | D LED BG5525S GREEN |
| D32 | ED-346564 | D ZENER H HZ15L 1 |
| D33 | ED-346564 | D ZENER H HZ15L 1 |
| D34 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D35 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D36 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D37 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D38 | ED-382611J | D LED PY5504S YELLOW |
| D39 | ED-382611J | D LED PY5504S YELLOW |
| D40 | ED-351418 | D ZENER H HZ7L B1 |
| D41 | ED-351418 | D ZENER H HZ7L B1 |
| D42 | ED-346529 | D ZENER H HZ6L C2 |
| D43 | ED-346560 | D ZENER H HZ12L B3 |
| D44 | *ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D45 | ED-379981J | D SILICON EGO1LF-F4 F10 400/0.7A |
| D46 | ED-301911 | D SILICON H DS448 |
| D47 | ED-301911 | D SILICON H DS448 |
| IC1 | EI-345474 | IC HA12002 |
| R1 | ER-382671J | R CB H S10 FS RDS 1/4W 6R8J |
| R2 | ER-382671J | R CB H S10 FS RDS 1/4W 6R8J |
| R3 | ER-382671J | R CB H S10 FS RDS 1/4W 6R8J |
| R4 | ER-382671J | R CB H S10 FS RDS 1/4W 6R8J |
| R5 | ER-368226 | R CT P R33+R33 5W |
| R6 | ER-368226 | R CT P R33+R33 5W |
| R15 | ER-378502J | R CB H S10 FS RDS 1/4W 391J |
| R18 | ER-381264J | R OMF H S20 FS 3W 332J |
| R22 | ER-378499J | R CB H S10 FS RDS 1/4W 100J |
| R33 | ER-382613J | R CB H S10 FS RDS 1/4W 331J |
| R34 | ER-382613J | R CB H S10 FS RDS 1/4W 331J |
| R39 | ER-382613J | R CB H S10 FS RDS 1/4W 331J |
| R40 | ER-382613J | R CB H S10 FS RDS 1/4W 331J |
| R43 | ER-324185 | R CB H S10 FS RDS 1/4W 221J |
| R44 | ER-324185 | R CB H S10 FS RDS 1/4W 221J |
| R45 | ER-378846J | R CB H S10 FS RDS 1/4W 102J |
| R49 | ER-324185 | R CB H S10 FS RDS 1/4W 221J |
| R50 | ER-324185 | R CB H S10 FS RDS 1/4W 221J |
| R51 | ER-381265J | R OMF H S20 FS 3W 561J |

| Ref. No. | Part No. | Description |
|----------|------------|----------------------------------|
| R52 | ER-381265J | R OMF H S20 FS 3W 561J |
| R54 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| R55 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| R56 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| R57 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| R58 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| R59 | ER-382614J | R CB H S10 FS RDS 1/4W 2R2J |
| TR1 | ET-349081 | TR 2SC3383 S,T |
| TR3 | ET-338244 | TR 2SA1207 R,S |
| TR4 | ET-360067 | TR 2SC3330 T,U F05 |
| TR5 | ET-360067 | TR 2SC3330 T,U F05 |
| TR6 | ET-338244 | TR 2SA1207 R,S |
| TR7 | ET-348830 | TR 2SC2909 S,T |
| TR8 | ET-338244 | TR 2SA1207 R,S |
| TR9 | ET-348830 | TR 2SC2909 S,T |
| TR10 | ET-352726 | TR 2SA1392 T,U |
| TR11 | ET-349081 | TR 2SC3383 S,T |
| TR12 | *ET-338244 | TR 2SA1207 R,S |
| TR13 | *ET-348830 | TR 2SC2909 S,T |
| TR14 | *ET-359827 | TR FET 2SK246 BL |
| TR15 | *ET-349459 | TR 2SD1406 O,Y,GR |
| TR901 | *ET-345625 | TR 2SC3116 S,T |
| TR902 | *ET-368760 | TR 2SC3855 P,Y |
| TR903 | *ET-368760 | TR 2SC3855 P,Y |
| TR904 | *ET-368758 | TR 2SA1491 P,Y |
| F3A | *EF-327103 | FUSE TSC A 250V 500MA [U] |
| F3B | *EF-309390 | FUSE TSC 125V 500MA [C,A] |
| F3C | *EF-623103 | FUSE SEMKO T 250V 1.00A [E,V] |
| F3D | *EF-355226 | FUSE BET T 250V 1.00A [B] |
| F4A | *EF-327103 | FUSE TSC A 250V 500MA [U] |
| F4B | *EF-309390 | FUSE TSC 125V 500MA [C,A] |
| F4C | *EF-623103 | FUSE SEMKO T 250V 1.00A [E,V] |
| F4D | *EF-355226 | FUSE BET T 250V 1.00A [B] |
| F5A | *EF-309388 | FUSE TSC A 250V 800MA [U] |
| F5B | *EF-309391 | FUSE TSC 125V 800MA [C,A] |
| F5C | *EF-623103 | FUSE SEMKO T 250V 1.00A [E,V] |
| F5D | *EF-355226 | FUSE BET T 250V 1.00A [B] |

4. SPEAKER TERMINAL P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|--|
| D101 | ED-348990 | D SILICON H DS446 |
| D102 | ED-348990 | D SILICON H DS446 |
| D103 | ED-348990 | D SILICON H DS446 |
| D104 | ED-348990 | D SILICON H DS446 |
| L101 | EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| L102 | EO-332116 | COIL FIX 2 103AK-006A 2R2K [V] |
| L103 | EO-332116 | COIL FIX 2 103AK-006A 2R2K [V] |
| RL101 | EQ-379982J | RELAY POW G5R-2282P 2NO 48V |
| RL102 | EQ-379982J | RELAY POW G5R-2282P 2NO 48V |
| RL103 | EQ-348929 | RELAY SIG G5A-237P 2TR 12V |
| R101 | ER-381266J | R OMF H S20 FS 3W 100J |
| R102 | ER-381266J | R OMF H S20 FS 3W 100J |
| R103 | ER-381265J | R OMF H S20 FS 3W 561J |
| TM901 | EJ-379983J | TERMINAL W/SCREW YKD31-0338 8P [SPEAKER TERMINAL] |

5. FUSE P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|----------------------------------|
| L301 | EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| F1A | *EF-306952 | FUSE TSC A 250V 4.00A [U] |
| F1B | *EF-345658 | FUSE TSC 125V 8.00A [C,A] |
| F1C | *EF-690996 | FUSE SEMKO T 250V 4.00A [E,V] |
| F1D | *EF-359086 | FUSE BET T 250V 4.00A [B] |
| F2 | *EF-306952 | FUSE TSC A 250V 4.00A [U] |

6. POWER SW P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|---------------------------------------|
| C401A | *EC-320548 | C CE V F 103Z 250AC [U] |
| C401B | *EC-338496 | C CE V FZ 472P 400AC [C,A,E,V,B] |
| SW1 | *ES-355407 | SW PUSH ESB-99713V TV-8 [POWER SW] |

7. INDICATOR P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|---------------------|
| D501 | ED-382620J | D LED PG5562X GREEN |
| D502 | ED-382620J | D LED PG5562X GREEN |
| D503 | ED-382620J | D LED PG5562X GREEN |
| D504 | ED-382620J | D LED PG5562X GREEN |

8. POWER LED P.C BOARD

| Ref. No. | Part No. | Description |
|----------|-----------|-------------------------|
| D601 | ED-361885 | D LED SLP-384C-51 GREEN |
| D602 | ED-361885 | D LED SLP-384C-51 GREEN |

9. HEADPHONE P.C BOARD

| Ref. No. | Part No. | Description |
|----------|-----------|---|
| J701 | EJ-369995 | PHONE J 3P HLJ0540-410 GP 6.3 [PHONES] |

10. REGULATOR P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|----------------|
| TR801 | *ET-368759 | TR 2SC3854 P,Y |
| TR802 | *ET-368757 | TR 2SA1490 P,Y |
| TR803 | *ET-345625 | TR 2SC3116 S,T |
| TR804 | *ET-345626 | TR 2SA1248 S,T |
| TR805 | *ET-345625 | TR 2SC3116 S,T |
| TR806 | *ET-345626 | TR 2SA1248 S,T |
| TR807 | *ET-345625 | TR 2SC3116 S,T |
| TR808 | *ET-345626 | TR 2SA1248 S,T |
| TR809 | *ET-345625 | TR 2SC3116 S,T |

11. V-AMP P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|--------------------------------|
| IC1 | EI-362588 | IC M5238P |
| J1 | EJ-336904 | PIN J AJC-036-ACB P 6P |
| J2 | EJ-336904 | PIN J AJC-036-ACB P 6P |
| R5 | ER-338000 | R FUSE H S10 ERD2FC 1/4W 2200G |
| R13 | ER-338000 | R FUSE H S10 ERD2FC 1/4W 2200G |
| R27 | ER-378498J | R CB H S10 FS RDS 1/4W 682J |
| R28 | ER-378498J | R CB H S10 FS RDS 1/4W 682J |
| R30 | ER-372991 | R CB H S10 FS RDS 1/4W 101J |
| R33 | ER-372991 | R CB H S10 FS RDS 1/4W 101J |
| R36 | ER-378499J | R CB H S10 FS RDS 1/4W 100J |
| R37 | ER-378499J | R CB H S10 FS RDS 1/4W 100J |
| R345 | ER-382603J | R CB H S10 FS RDS 1/4W 471J |
| R16 | ER-382603J | R CB H S10 FS RDS 1/4W 471J |
| R47 | ER-382603J | R CB H S10 FS RDS 1/4W 471J |
| TR1 | ET-354897 | TR FET 2SK170 BL,GR,V |
| TR2 | ET-357162 | TR FET 2SJ74 GR,BL,V |
| TR3 | ET-370038 | TR 2SC2910 S,T |
| TR4 | ET-345460 | TR 2SA1208 R,S,T |
| TR5 | ET-338244 | TR 2SA1207 R,S |
| TR6 | ET-348830 | TR 2SC2909 S,T |
| TR7 | ET-348830 | TR 2SC2909 S,T |
| TR8 | ET-348830 | TR 2SC2909 S,T |
| TR9 | ET-338244 | TR 2SA1207 R,S |
| TR10 | ET-348830 | TR 2SC2909 S,T |
| TR11 | ET-348829 | TR 2SA1209 S,T |
| TR12 | ET-348831 | TR 2SC2911 S,T |
| TR13 | ET-348831 | TR 2SC2911 S,T |
| TR14 | ET-348829 | TR 2SA1209 S,T |
| TR15 | ET-348831 | TR 2SC2911 S,T |
| TR16 | ET-348829 | TR 2SA1209 S,T |
| VR1 | EV-371308 | R S-FIX V VM6CK(PH) 0.30W 201 |

12. EQUALIZER P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|-----------------------------|
| D101 | ED-356424 | D LED BG5525S GREEN |
| D102 | ED-343410 | D ZENER H HZ6L A1 |
| D103 | ED-343410 | D ZENER H HZ6L A1 |
| J101 | EJ-336904 | PIN J AJC-036-ACB P 6P |
| J102 | EJ-336904 | PIN J AJC-036-ACB P 6P |
| R127 | ER-382604J | R CB H S10 FS RDS 1/4W 390J |
| R128 | ER-382604J | R CB H S10 FS RDS 1/4W 390J |
| TR101 | ET-354897 | TR FET 2SK170 BL,GR,V |
| TR102 | ET-357162 | TR FET 2SJ74 GR,BL,V |
| TR103 | ET-352726 | TR 2SA1392 T,U |
| TR104 | ET-349081 | TR 2SC3383 S,T |
| TR105 | ET-349081 | TR 2SC3383 S,T |
| TR106 | ET-352726 | TR 2SA1392 T,U |
| VR101 | EV-360948 | R S-FIX V RVF8W01 0/10W 104 |

13. TR P.C BOARD

| Ref. No. | Part No. | Description |
|----------|-----------|-----------------------------|
| D201 | ED-301911 | D SILICON H DS448 |
| TR905 | ET-368758 | TR 2SA1491 P,Y |
| VR201 | EV-346380 | R S-FIX H RH1051C 0.15W 332 |

14. INPUT P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|---------------------------|
| D1 | ED-343410 | D ZENER H HZ6L A1 |
| SW301 | ES-379986J | SW ROTARY SRRZS6 2-06-06N |

| Ref. No. | Part No. | Description |
|----------|------------|---|
| SW302 | EV-379987J | [INPUT SELECTOR] SW ROTARY SRRZS6 2-06-03N |
| SW303 | ES-379988J | [TAPE SELECTOR] SW ROTARY SRRZS8 2-08-03N |
| SW304 | ES-379984J | [DIRECT OPERATION] SW ROTARY SRRZS4 2-04-04N |
| TR1 | ET-360646 | [DIGITAL INPUT] TR DTA143ES |
| TR2 | ET-360646 | TR DTA143ES |
| TR3 | ET-360646 | TR DTA143ES |
| VR1 | EV-379989J | VR ROTARY RK16314A0 A104X4 [MAIN VOLUME] |

15. TONE CONTROL P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|---|
| IC1 | EI-344764 | IC M5218P-21 |
| SW1 | ES-379984J | SW ROTARY SRRZS4 2-04-04N [SPEAKER SELECTOR] |
| VR1 | EV-379992J | VR ROTARY RK1631210 C104X2 [BASS CONTROL] |
| VR2 | EV-379993J | VR ROTARY RK1631210 C104X2 [TREBLE CONTROL] |

16. REC SELECTOR P.C BOARD

| Ref. No. | Part No. | Description |
|----------|------------|--|
| D1 | ED-301911 | D SILICON H DS448 |
| SW1 | ES-379986J | SW ROTARY SRRZS6 2-06-06N [REC SELECTOR] |
| SW2 | ES-379988J | SW ROTARY SRRZS8 2-08-03N [TAPE SELECTOR] |
| SW3 | ES-378941J | SW PUSH SPUL12 2-04-02S [MUTE] |
| VR1 | EV-379994J | VR ROTARY RK1631110 SPL W104 [BALANCE] |

17. DAC P.C BOARD

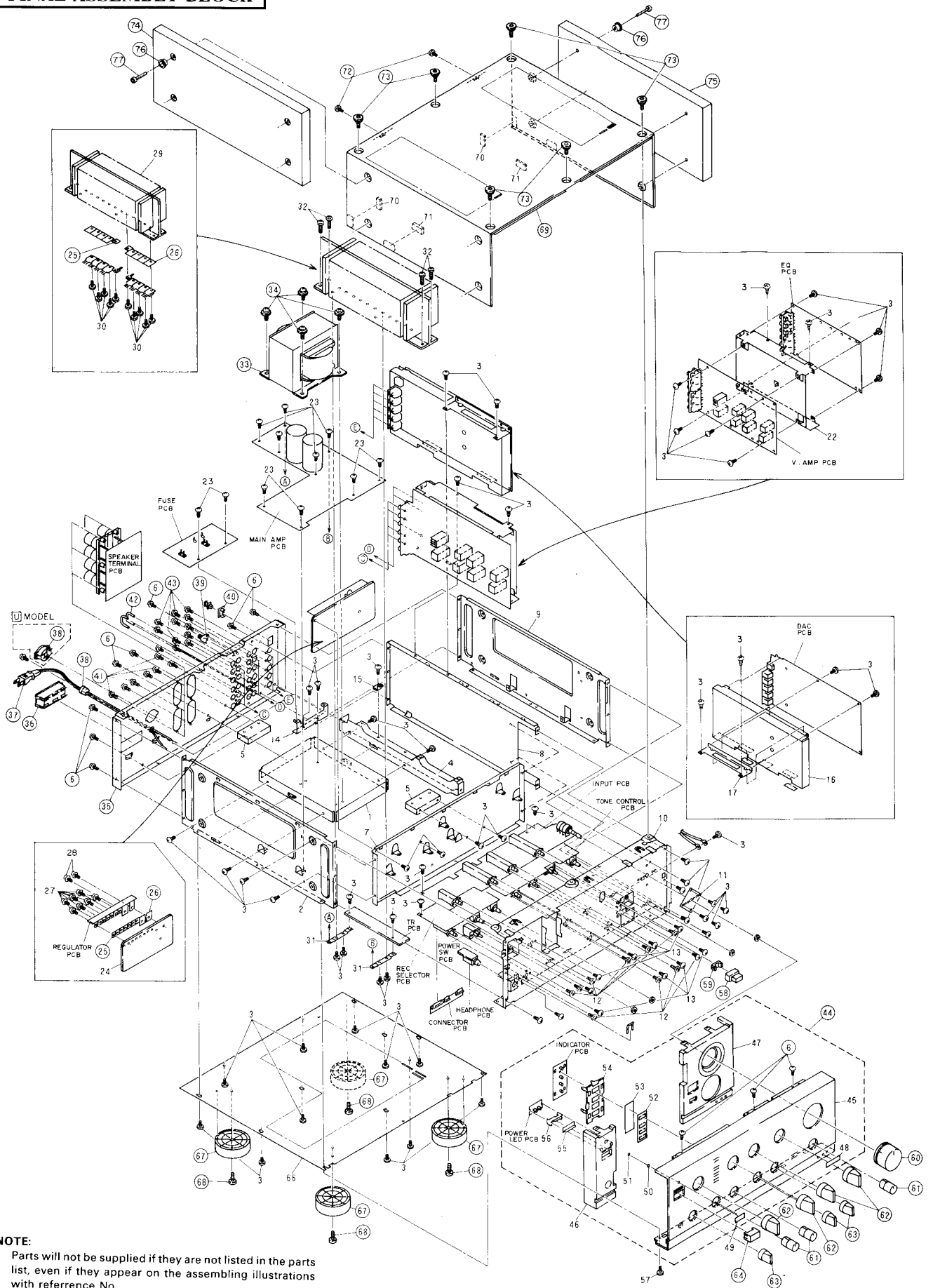
| Ref. No. | Part No. | Description |
|----------|------------|--|
| C29 | EC-380325J | C PP V MKP1841 104J 250DC |
| D1 | ED-301911 | D SILICON H DS448 |
| D2 | ED-301911 | D SILICON H DS448 |
| D3 | ED-301911 | D SILICON H DS448 |
| D4 | ED-301911 | D SILICON H DS448 |
| D5 | ED-301911 | D SILICON H DS448 |
| FL1 | EO-378920J | COIL VARI 1 25-5721-13 |
| IC2 | EI-360039 | IC TC74HC08P |
| IC3 | EI-360040 | IC TC74HC04P |
| IC4 | EI-378921J | IC TC74HC151P |
| IC5 | EI-360037 | IC TC74HC00P |
| IC6 | EI-360040 | IC TC74HC04P |
| IC7 | EI-375346 | IC MM74HCO4N |
| IC8 | EI-360037 | IC TC74HC00P |
| IC9 | EI-379997J | IC YM3623B |
| IC10 | EI-381282J | IC CXD-1162P |
| IC11 | EI-356049 | IC TC74HC139P |
| IC12 | EI-368612 | IC PCMS56P |
| IC13 | EI-377191 | IC NJM5532D-D |
| J1 | EJ-377170 | PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 1 IN] |
| J2 | EJ-377170 | PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 2 IN] |
| J3 | EJ-377170 | PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 3 IN] |
| J4 | EJ-377170 | PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 2 OUT] |
| J5 | EJ-377170 | PIN J YKB11-0473 GP ORANGE 1P [DIGITAL 3 OUT] |

| Ref. No. | Part No. | Description |
|----------|-----------|--|
| J11 | EJ-368258 | SOCKET OPTICAL TORX172 [OPTICAL IN] |
| L1 | EO-343816 | COIL FIX 1 LAL04 681K |
| TR1 | ET-354371 | TR DTC124ES |
| TR2 | ET-352726 | TR 2SA1392 T,U |
| TR3 | ET-354371 | TR DTC124ES |
| TR4 | ET-352726 | TR 2SA1392 T,U |
| TR5 | ET-349081 | TR 2SC3383 S,T |
| TR6 | ET-349081 | TR 2SC3383 S,T |
| TR7 | ET-360646 | TR DTA143ES |
| T1 | BT-368261 | TRANS PULSE TC-1027-04 |
| T2 | BT-368261 | TRANS PULSE TC-1027-04 |
| XR1 | EV-337996 | R S-FIX H RVF8P01 0.10W 104 |
| X1 | EI-374176 | OSC X'TAL AT-51 16.9344MHZ |

18. FINAL ASSEMBLY BLOCK

| Ref. No. | Part No. | Description |
|----------|---------------|---|
| 6 | ZS-308846 | T2BR30X08STL BZN PROJECTION |
| 25 | EZ-200473 | SILICON RUBBER SHEET TC-30 |
| 26 | EZ-345459 | TRANSISTOR SUPPORT BFG-20TO-3P |
| 33A | *BT-379958J | TRANS POW A2057(U) [U] |
| 33B | *BT-379961J | TRANS POW A2057(C,A) [C,A] |
| 33C | *BT-379962J1 | TRANS POW A2057(EV) [E,V] |
| 33D | *BT-379963J1 | TRANS POW A2057(B) [B] |
| 34 | ZS-365373 | ST BID40X10STL CMT CUP |
| 35A | SP-379908J | PANEL REAR AM-73(U) [U] |
| 35B | SP-379909J | PANEL REAR AM-73(A,C) [C,A] |
| 35C | SP-379910J | PANEL REAR AM-73(E,V) [E,V] |
| 35D | SP-379911J | PANEL REAR AM-73(B) [B] |
| 36A | *EJ-337405 | SOCKET OUT S2T733T164 JUC 3X2P [U] |
| 36B | *EJ-352642 | SOCKET OUTLET S2T733T114T [C,A] |
| 37A | *EW-363658 | AC CORD 200 0129AVFF B100 A U/ [U] |
| 37B | *EW-363646 | AC CORD 200 238APSPT2 B100 A U [C,A] |
| 37C | *EW-363671 | AC CORD 200 0364 LCFL B100 A E [E,V] |
| 37D | *EW-363683 | AC CORD 200 LCFL B100 A B [B] |
| 38 | *ES-349070 | SW SELECTOR YKS11-0002 02-4 [U] |
| 39 | EJ-329610 | TERMINAL W/SCREW UB-0067 L 1P |
| 40 | SE-375348 | ESCUTCHEON |
| 41 | ZS-362151 | PT BR30X12STL BNI |
| 42 | EJ-348218 | PLUG SHORT PIN P2138 |
| 43 | ZS-351886 | PT BR30X10STL BNI |
| 44 | BD-A2057A060A | PANEL FRONT BLK AM-73-B |
| 58 | SK-379900J | KNOB MUTE |
| 59 | ZW-368205 | FLEXIBLE RING 2414-0-0-086-01 |
| 60 | SK-379887J | KNOB VR B PART |
| 61 | SK-379898J | KNOB BALANCE PART |
| 62 | SK-379893J | KNOB SELECTOR PART |
| 63 | SK-379896J | KNOB SP PART |
| 64 | SK-373236B | KNOB POWER-B |
| 67 | SA-B368687 | FOOT ROUND SHAPED PART |
| 68 | ZS-304021 | ST BID40X12STL CMT |
| 69 | SP-379905J | CAVER UPPER(2) B |
| 72 | ZS-308846 | T2BR30X08STL BZN PROJECTION |
| 73 | ZS-381482J | SCREW TOP COVER(3) B OM |
| 74 | SP-381364J | SIDE BOARD(L) |
| 75 | SP-381365J | SIDE BOARD(R) |
| 76 | ZW-376292 | WASHER SIDE BOARD |

FINAL ASSEMBLY BLOCK



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.

PARTS LIST

INDEX

| Part No. | Ref. No. | Part No. | Ref. No. | Part No. | Ref. No. | Part No. | Ref. No. |
|---------------|----------|------------|----------|------------|----------|------------|----------|
| BA-A2057A020A | 2-1A | ED-377933 | 3-D18 | EI-375346 | 17-IC7 | ES-349070 | 18-38 |
| BA-A2057A020C | 2-1B | ED-377933 | 3-D19 | EI-377191 | 1-32 | ES-355407 | 1-45 |
| BA-A2057A020D | 2-1C | ED-379981J | 1-6 | EI-377191 | 17-IC13 | ES-355407 | 6-SW1 |
| BA-A2057A020E | 2-1D | ED-379981J | 3-D10 | EI-378921J | 1-38 | ES-378941J | 1-46 |
| BA-A2057A030A | 2-2A | ED-379981J | 3-D11 | EI-378921J | 17-IC4 | ES-378941J | 16-SW3 |
| BA-A2057A030C | 2-2B | ED-379981J | 3-D12 | EI-379997J | 1-39 | ES-379984J | 1-47 |
| BA-A2057A040A | 2-3A | ED-379981J | 3-D13 | EI-379997J | 17-IC9 | ES-379984J | 14-SW304 |
| BA-A2057A040B | 2-3B | ED-379981J | 3-D20 | EI-381282J | 1-27 | ES-379984J | 15-SW1 |
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| EC-320548 | 6-C401A | ED-381270J | 3-D25 | EJ-377170 | 17-J1 | ET-338244 | 11-TR5 |
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| EC-380325J | 17-C29 | ED-382620J | 7-D501 | EO-332116 | 4-L101 | ET-345625 | 10-TR805 |
| EC-381263J | 3-C1 | ED-382620J | 7-D502 | EO-332116 | 4-L102 | ET-345625 | 10-TR807 |
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| ED-301911 | 3-D8 | ED-382668J | 3-D1 | EO-378920J | 17-FL1 | ET-345626 | 10-TR806 |
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ABBREVIATIONS (AMPLIFIER)

| ABBREVIATIONS | 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.DISC | Video DISC |
| VR | Variable Resistance |
| VTR | Video Tape Recorder |

AKAI ELECTRIC CO., LTD.

12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan
 SERVICE DEPARTMENT TEL: Tokyo(745)9884 TELEX: J26261

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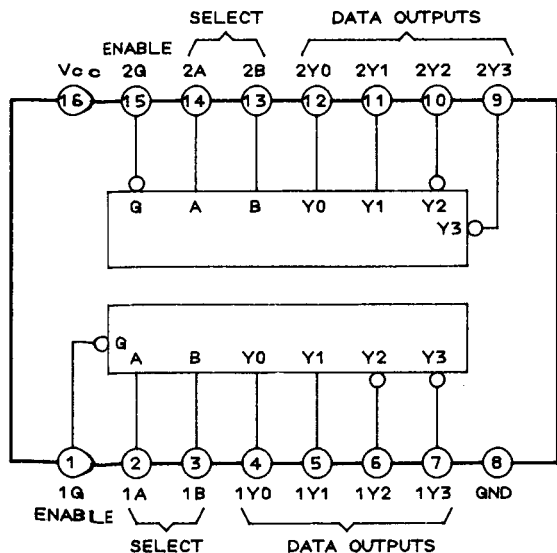
MODEL AM-73

SCHEMATIC DIAGRAM AND PC BOARDS

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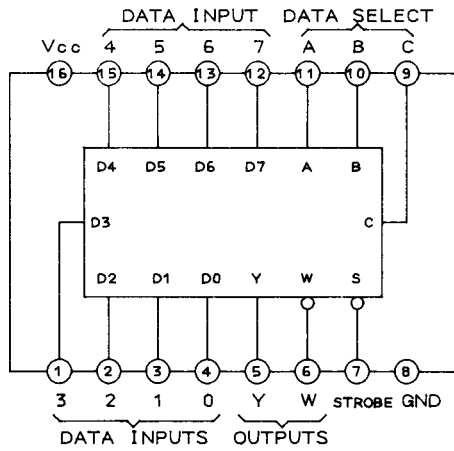
74HC139 (Dual 2 to 4 Demultiplexers)



Function Table

| INPUTS | | OUTPUTS | | | |
|--------|--------|---------|----|----|----|
| ENABLE | SELECT | Y0 | Y1 | Y2 | Y3 |
| G | B A | | | | |
| H | X X | H | H | H | L |
| L | L L | L | H | H | L |
| L | L H | H | L | H | L |
| L | H L | H | H | L | L |
| L | H H | H | H | H | L |

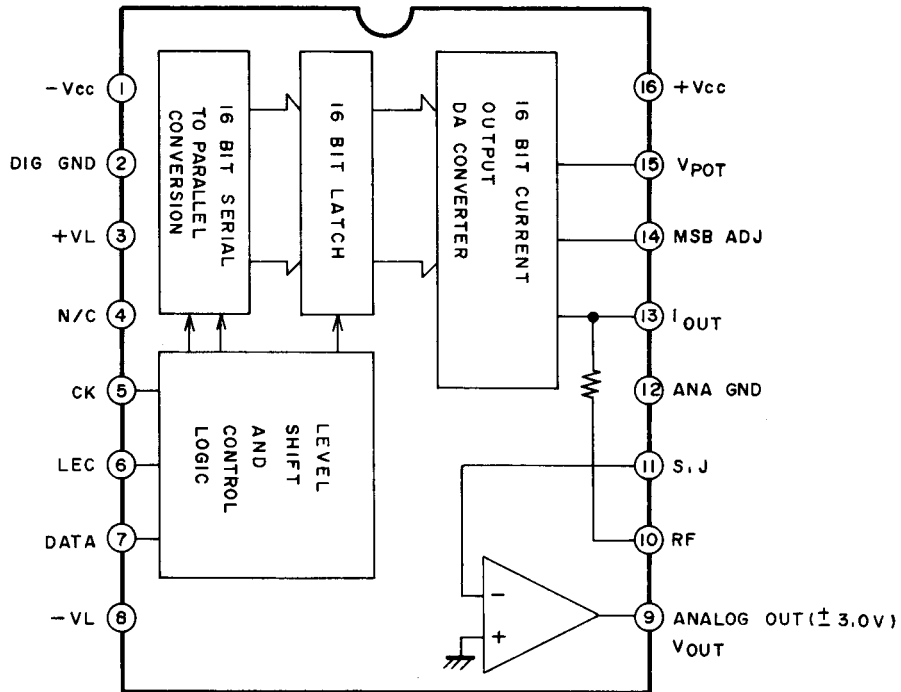
74HC151P (8 to 1 Data Selector)



Function Table

| INPUTS | | | | OUTPUTS | |
|--------|---|---|--------|---------|-----------------|
| SELECT | | | STROBE | Y | W |
| C | B | A | S | | |
| X | X | X | H | L | H |
| L | L | L | L | D0 | $\overline{D0}$ |
| L | L | H | L | D1 | $\overline{D1}$ |
| L | H | L | L | D2 | $\overline{D2}$ |
| L | H | H | L | D3 | $\overline{D3}$ |
| H | L | L | L | D4 | $\overline{D4}$ |
| H | L | H | L | D5 | $\overline{D5}$ |
| H | H | L | L | D6 | $\overline{D6}$ |
| H | H | H | L | D7 | $\overline{D7}$ |

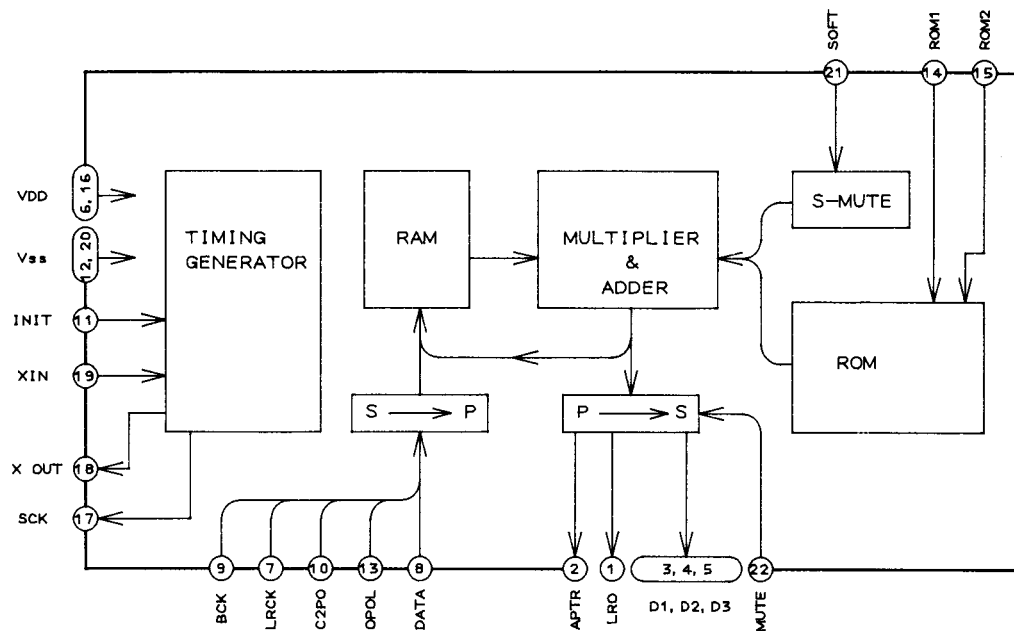
PCM56P (D/A Converter)



| PIN NO. | SYMBOL | DESCRIPTION |
|---------|---------|---------------------------------|
| 1 | -Vcc | Analog + power supply |
| 2 | DIG GND | Digital ground |
| 3 | +V1 | Logic + power supply |
| 4 | N.C | |
| 5 | CK | Clock input |
| 6 | LEC | Latch enable control |
| 7 | DATA | Data input |
| 8 | -V1 | Logic - power supply |
| 9 | Vout | Voltage output |
| 10 | RF | Terminal for feedback resistor |
| 11 | SJ | Summing junction (OP Amp input) |
| 12 | ANA GND | Analog ground |
| 13 | Iout | Current output |
| 14 | MSB ADJ | Terminal for MSB adjustment |
| 15 | Vpot | Terminal for potentiometer |
| 16 | +Vcc | Analog + power supply |

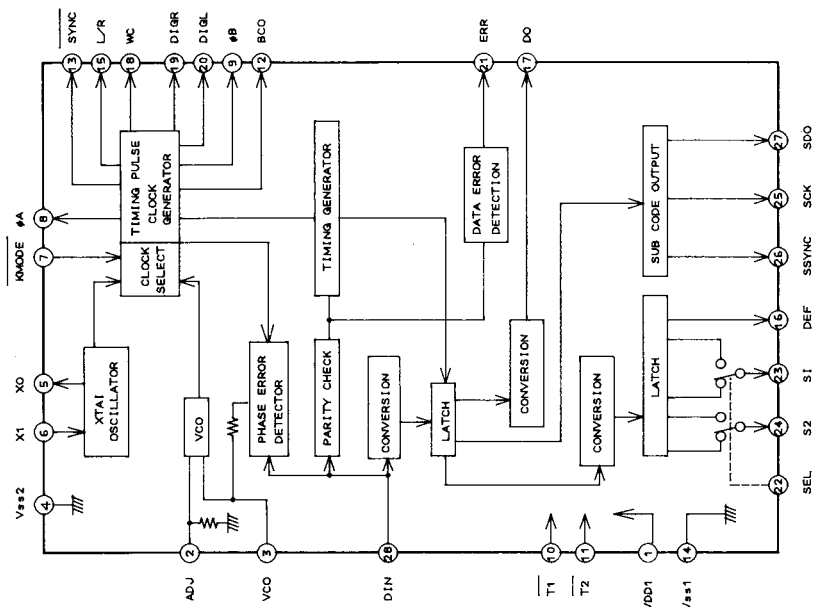
(PU): Terminal pull upped inside of IC

CXD1162P (4fs Over Sampling Digital Filter)

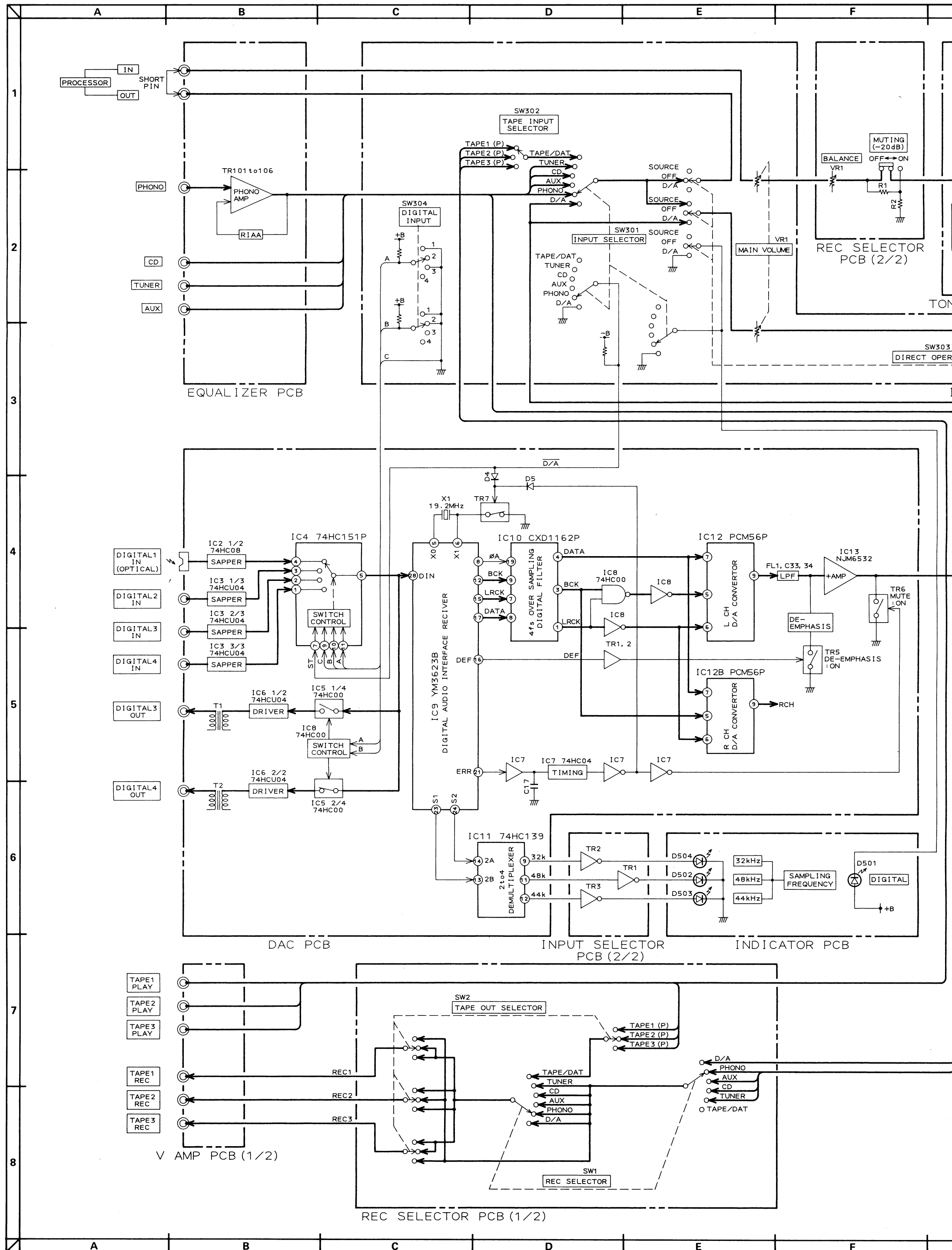


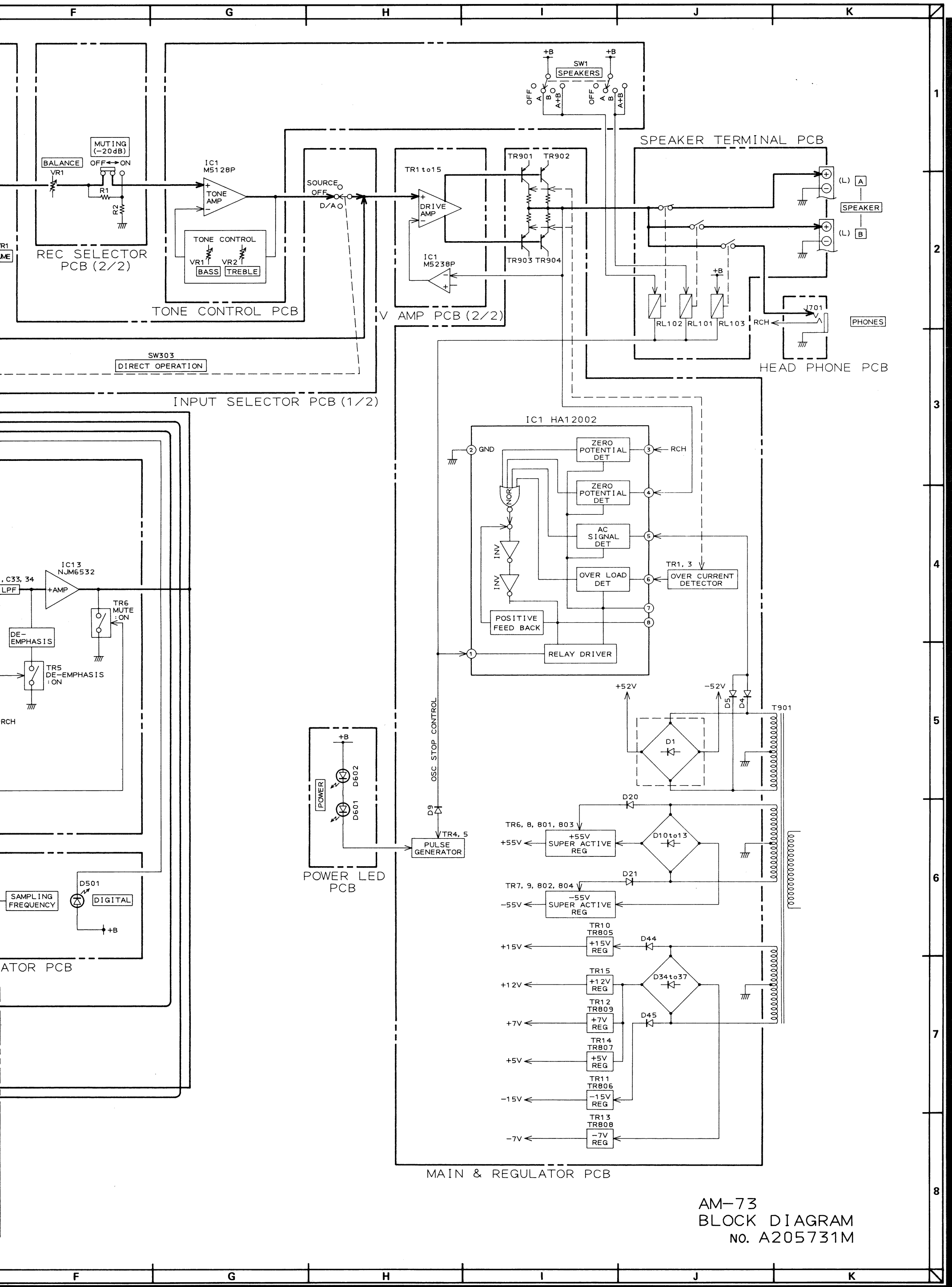
| PIN NO. | SYMBOL | I/O | DESCRIPTION OF TERMINAL |
|---------|--------|-----|---|
| 1 | LRO | O | LRCK Output |
| 2 | APTR | O | Aperture Clock for R Channel |
| 3 | D1 | O | BCK Output |
| 4 | D2 | O | DATA Output |
| 5 | D3 | O | WCK Output |
| 6 | VDD | — | +B (+5V) |
| 7 | LRCK | I | LRCK Input |
| 8 | DATA | I | 16 bit x 2 Serial DATA Input |
| 9 | BCK | I | BCK Input |
| 10 | C2PO | I | Error Flag Input |
| 11 | INIT | I | Power "ON" Reset Input |
| 12 | Vss | — | -B (0V) |
| 13 | DPOL | I | |
| 14 | ROM1 | I | ROM Select for 83rd Order |
| 15 | ROM2 | I | ROM Select for 21st Order |
| 16 | VDD | — | +B (+5V) |
| 17 | SCK | O | System Clock Output for External IC (384fs) |
| 18 | XOUT | O | X'tal OSC Output (384fs) |
| 19 | XIN | I | X'tal OSC Input (384fs) |
| 20 | Vss | — | -B (0V) |
| 21 | SOFT | I | Soft Muting ON/OFF Select |
| 22 | MUTE | | Set the Output to '0' or OFF-SET |

YM3623 (Digital Audio Interface Receiver)



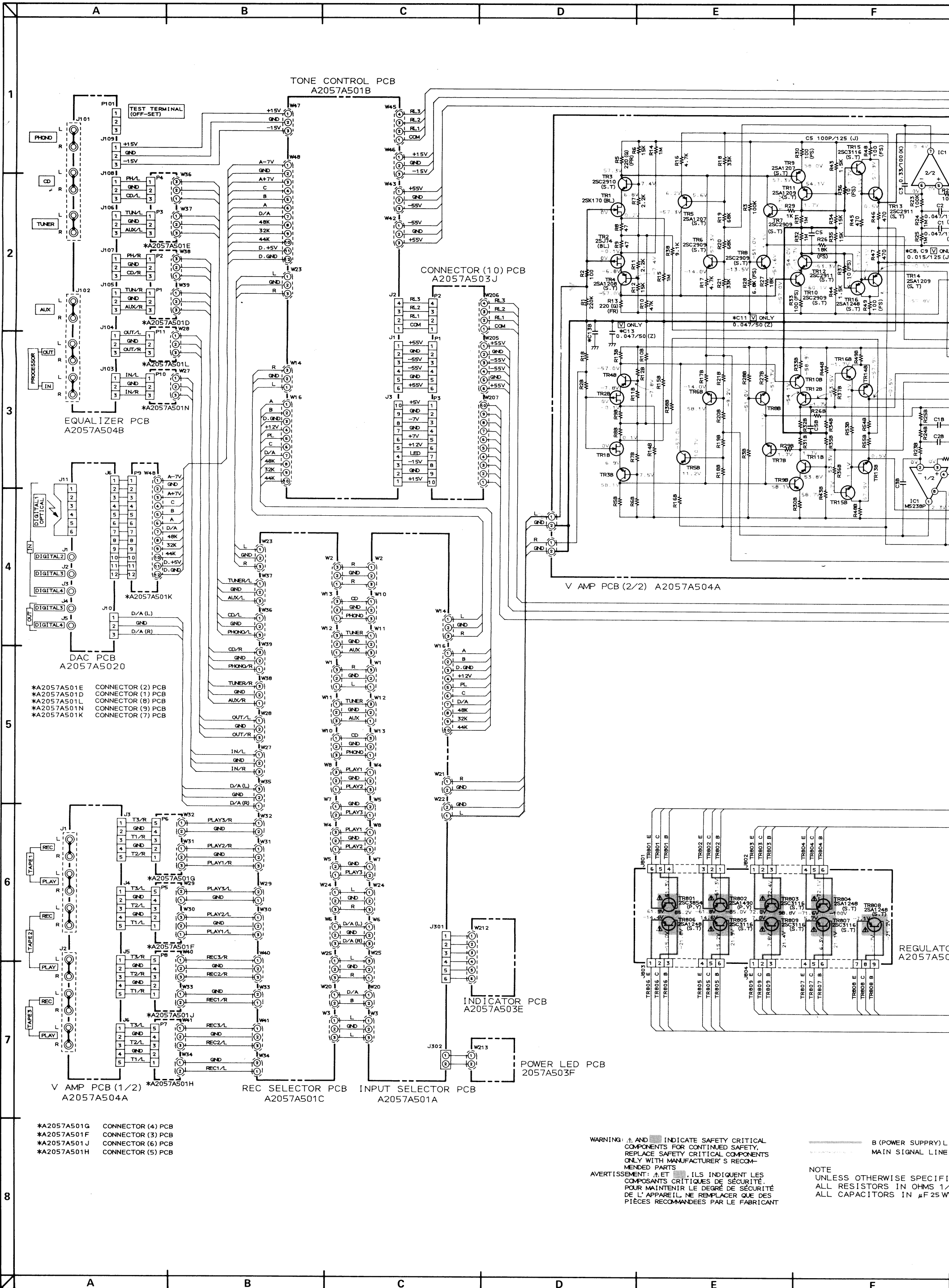
| PIN NO. | SYMBOL | I/O | DESCRIPTION OF TERMINAL | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------------|--------|---|---------|--|----|-----|--------|----|---|---|--|----|---|---|---------|----------|--------|--------|----------------------|----|---|---|---|--|----|---|---|---|
| 1 | VDD1 | | +B (+5V) for System Section | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | ADJ | I | No Connection | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | VCO | I/O | External Capacitor Connection Terminal for VCO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | VSS2 | | GND for VCO Circuit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | XO | O | } X'tal Oscillator | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | XI | I | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | $\overline{\text{K MODE}}$ | I(P) | H: When Data Input into DIN Terminal, Clock Signal Abstracted from Input Data by PLL Circuit, If No Data Input Data into DIN Clock Signal Use from X'tal OSC. L: Always Use X'tal Oscillation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | ϕA | O | <ul style="list-style-type: none"> When Using X'tal OSC = 16.934 MHz When Operating PLL Circuit = Changing the Frequency According to Input Data of DIN. (About 16.934 MHz at $f_s = 44.1$ kHz) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | ϕB | O | <ul style="list-style-type: none"> When Using X'tal OSC = $\phi A/3$ When Operating PLL Circuit = Changing the Frequency According to Input Data. (About 5.6448 MHz at $f_s = 44.1$ kHz) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | $\overline{\text{T1}}$ | I(P) | } For Check of Internal Circuit | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | $\overline{\text{T2}}$ | I(P) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | BCO | O | Timing Clock for the Output Signal from DO | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | $\overline{\text{SYNC}}$ | O | SYNCHRONOUS Signal Output | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | VSS1 | O | GND of System Section | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | L/R | O | Data Output Select from DO (H = L ch., L = R ch.) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | DEF | O | H = DE-EMPHASIS "ON", L = DE-EMPHASIS "OFF" | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | DO | O | 16 Bit Data Output | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | WC | O | When Data is Output to DO = H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | DIGR | O | Signal Output for R ch. Deglitch | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | DIGL | O | Signal Output for L ch. Deglitch | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | ERR | O | H = Parity Error, L = NO ERROR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | SEL | I(P) | Function Select Signal of S1 and S2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | S1 | O | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>SEL = L</td> <td></td> <td>NO</td> <td>YES</td> </tr> <tr> <td>(COPY)</td> <td>S1</td> <td>L</td> <td>H</td> </tr> <tr> <td></td> <td>S2</td> <td>L</td> <td>H</td> </tr> </table> <table border="1" style="display: inline-table; vertical-align: middle; margin-left: 20px;"> <tr> <td>SEL = H</td> <td>44.1 kHz</td> <td>48 kHz</td> <td>32 kHz</td> </tr> <tr> <td>(Sampling frequency)</td> <td>S1</td> <td>L</td> <td>L</td> <td>H</td> </tr> <tr> <td></td> <td>S2</td> <td>L</td> <td>H</td> <td>H</td> </tr> </table> | SEL = L | | NO | YES | (COPY) | S1 | L | H | | S2 | L | H | SEL = H | 44.1 kHz | 48 kHz | 32 kHz | (Sampling frequency) | S1 | L | L | H | | S2 | L | H | H |
| SEL = L | | | NO | YES | | | | | | | | | | | | | | | | | | | | | | | | | |
| (COPY) | S1 | L | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2 | L | H | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SEL = H | 44.1 kHz | 48 kHz | 32 kHz | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Sampling frequency) | S1 | L | L | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S2 | L | H | H | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | S2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | SCK | O | Clock Signal for Sub Code | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | SSYNC | O | SYNC Signal for Sub Code | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | SDO | O | Sub Code Data Output | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | DIN | I | Data Input | | | | | | | | | | | | | | | | | | | | | | | | | | |





AM-73
BLOCK DIAGRAM
NO. A205731M

1
2
3
4
5
6
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8



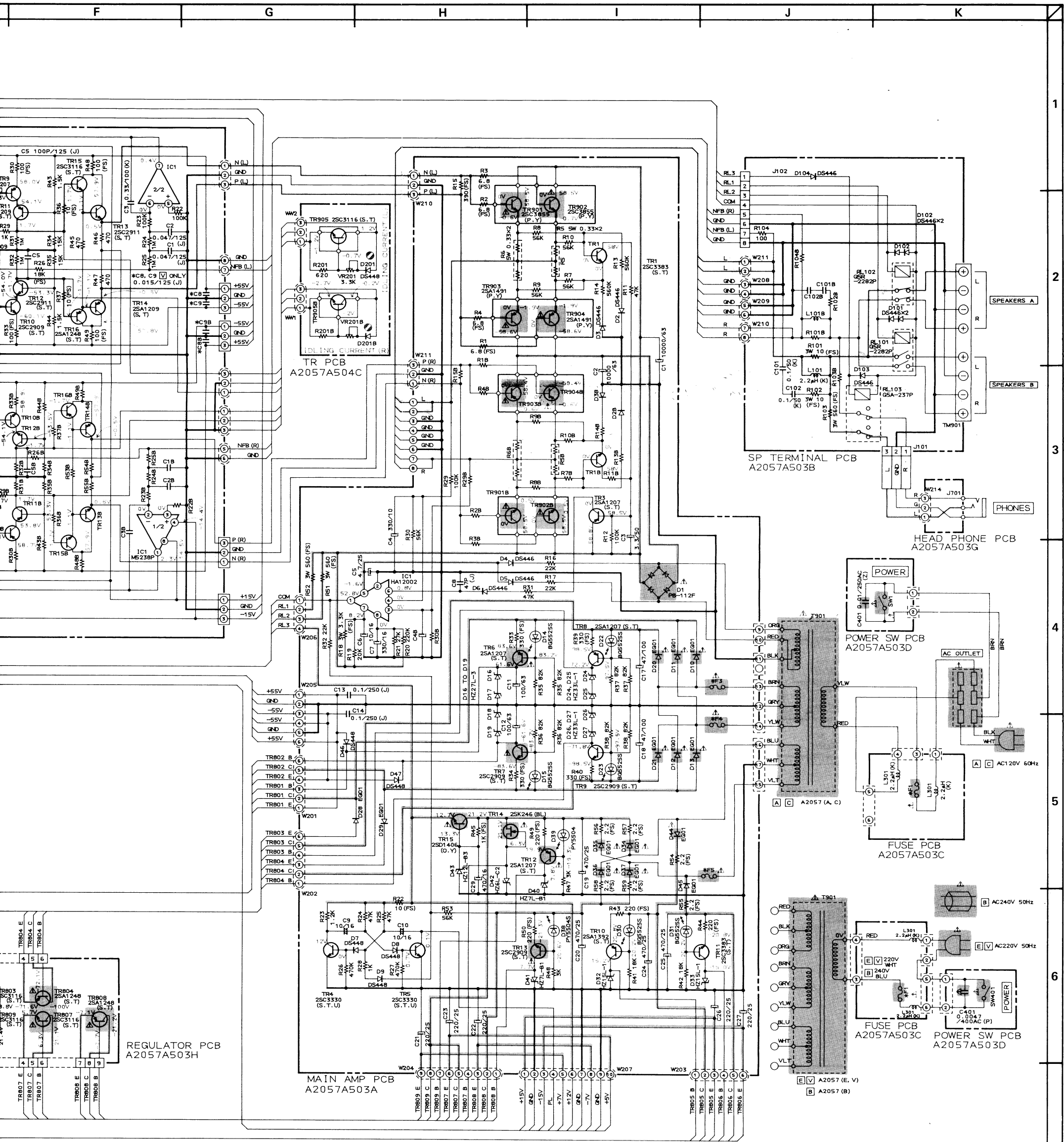
- *A2057A501E CONNECTOR (2) PCB
- *A2057A501D CONNECTOR (1) PCB
- *A2057A501L CONNECTOR (8) PCB
- *A2057A501N CONNECTOR (9) PCB
- *A2057A501K CONNECTOR (7) PCB

- *A2057A501G CONNECTOR (4) PCB
- *A2057A501F CONNECTOR (3) PCB
- *A2057A501J CONNECTOR (6) PCB
- *A2057A501H CONNECTOR (5) PCB

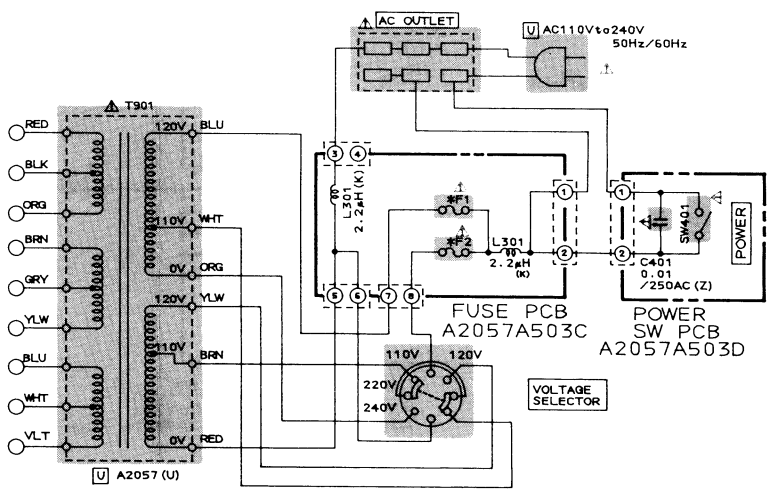
WARNING: **▲** AND **■** INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: **▲** ET **■** ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: UNLESS OTHERWISE SPECIFIED: ALL RESISTORS IN OHMS 1/4W (J) ALL CAPACITORS IN μ F 25 WV (M)

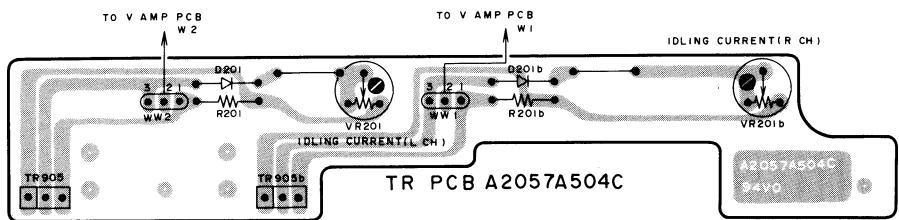


NOTE
UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μ F 25 WV (M)

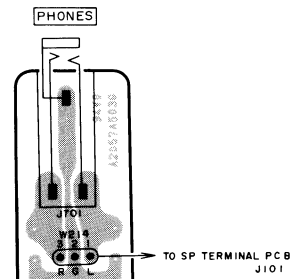


| # | F1 | F2 | F3, F4 | F5 |
|---------------|----------|---------|------------|------------|
| [A], [C] | BA 125V | — | 500mA 125V | 800mA 125V |
| [E], [V], [B] | T4A 250V | — | T1A 250V | T1A 250V |
| [U] | 4A 250V | 4A 250V | 500mA 250V | 800mA 250V |

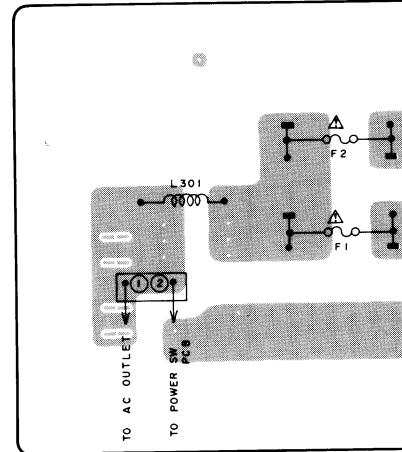
AM-73
CONNECTION DIAGRAM
NO. 3-1 A205721M



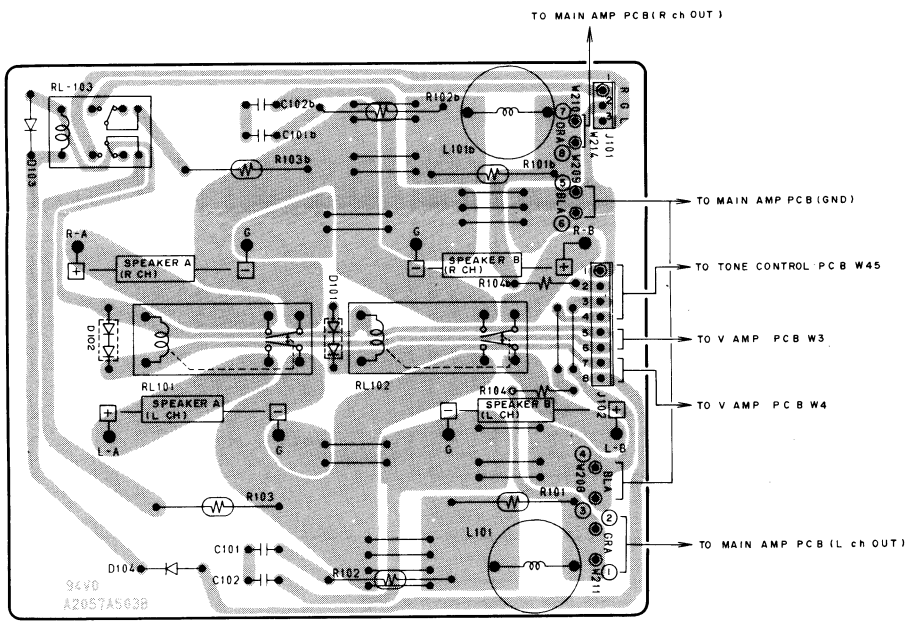
B = NPN TRANSISTOR



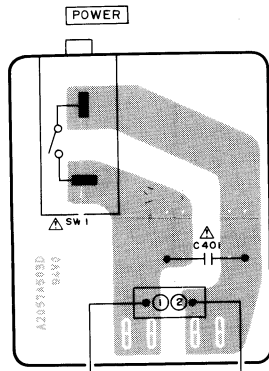
HEAD PHONE PCB
A2057A5036



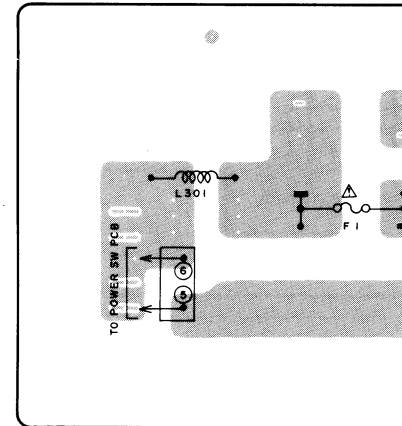
FUSE PCB A2057A5037



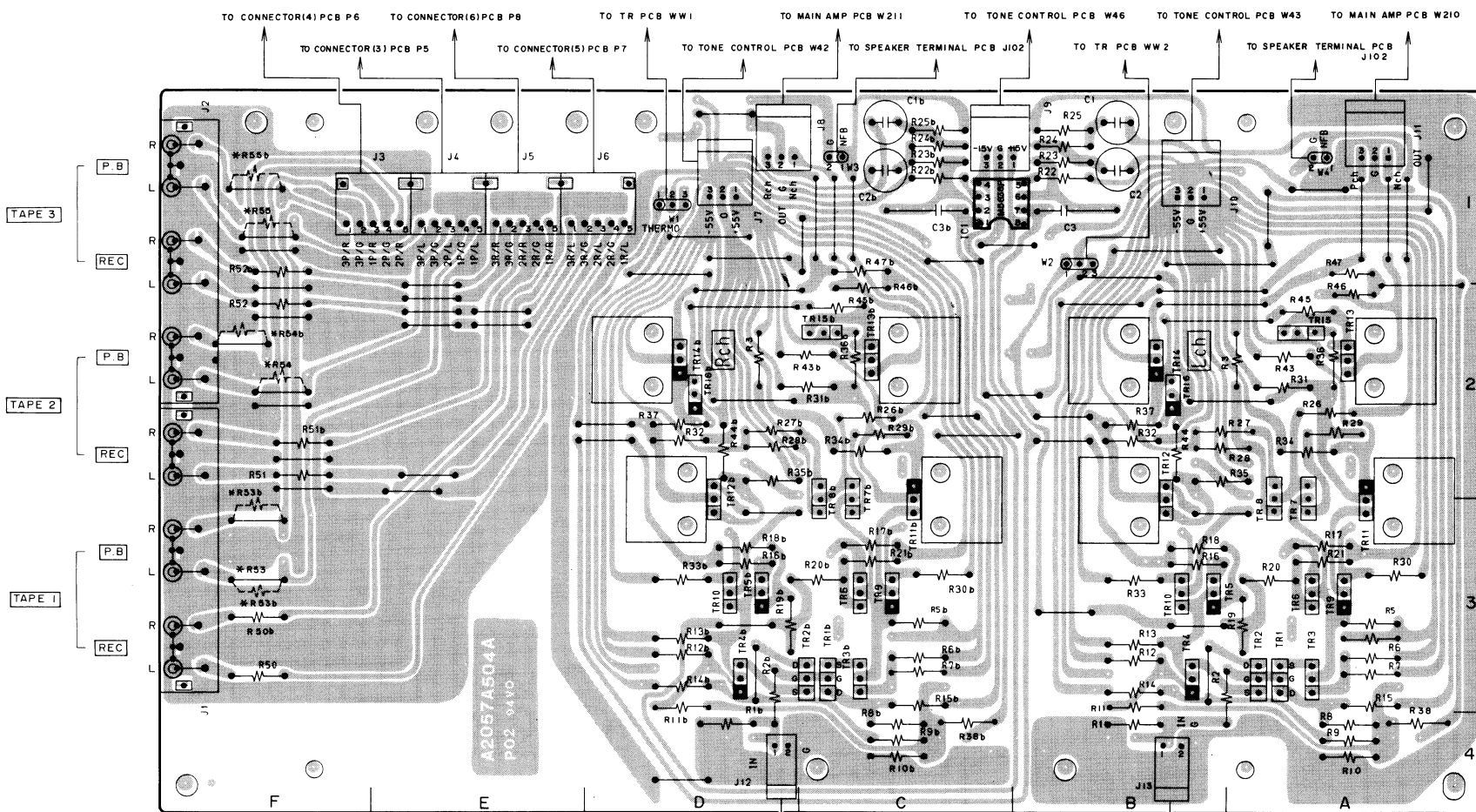
SP TERMINAL PCB A2057A503B



POWER SW PCB
A2057A503D



FUSE PCB A2057A503C

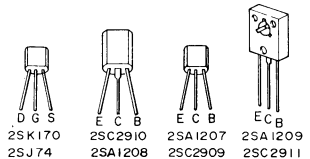


LOCATION OF COMPONENTS

| IC | TRANSISTORS |
|------------|-------------------------|
| IC1.....C1 | TR1.....A3 TR9b.....C3 |
| | TR1b.....C3 TR10.....B3 |
| | TR2.....A3 TR10b.....D3 |
| | TR2b.....C3 TR11.....A3 |
| | TR3.....A3 TR11b.....C3 |
| | TR3b.....C3 TR12.....B3 |
| | TR4.....B3 TR12b.....D3 |
| | TR4b.....D3 TR13.....A2 |
| | TR5.....B3 TR13b.....C2 |
| | TR5b.....D3 TR14.....B2 |
| | TR6.....A3 TR14b.....D2 |
| | TR6b.....C3 TR15.....A2 |
| | TR7.....A3 TR15b.....C2 |
| | TR7b.....C3 TR16.....B2 |
| | TR8.....A3 TR16b.....D2 |
| | TR8b.....C3 |
| | TR9.....A3 |

CONNECTORS

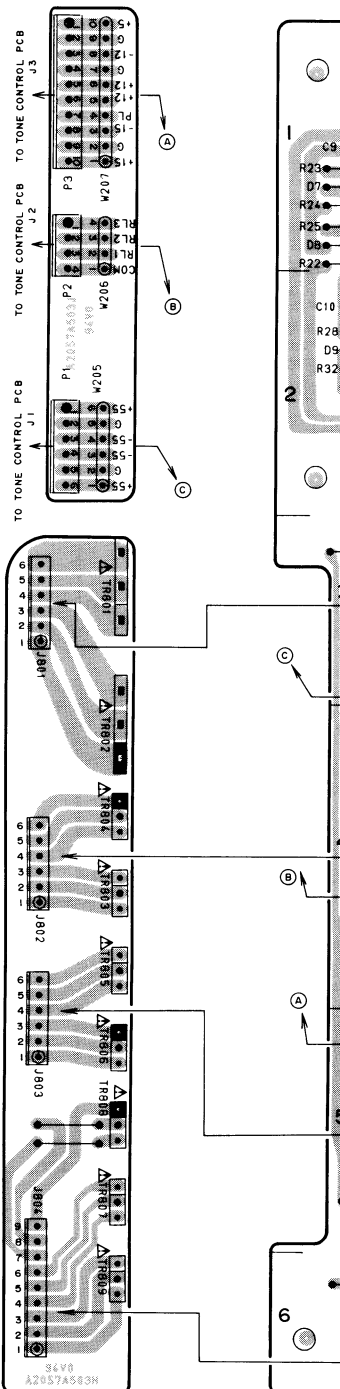
| | |
|------------|-------------|
| J1.....F3 | TR3b.....C3 |
| J2.....F1 | TR4.....B3 |
| J3.....F1 | TR4b.....D3 |
| J4.....E1 | TR5.....B3 |
| J5.....E1 | TR5b.....D3 |
| J6.....D1 | TR6.....A3 |
| J7.....D1 | TR6b.....C3 |
| J8.....D1 | TR7.....A3 |
| J9.....C1 | TR7b.....C3 |
| J11.....B1 | TR8.....A3 |
| J12.....D4 | TR8b.....C3 |
| J13.....B4 | TR9.....A3 |



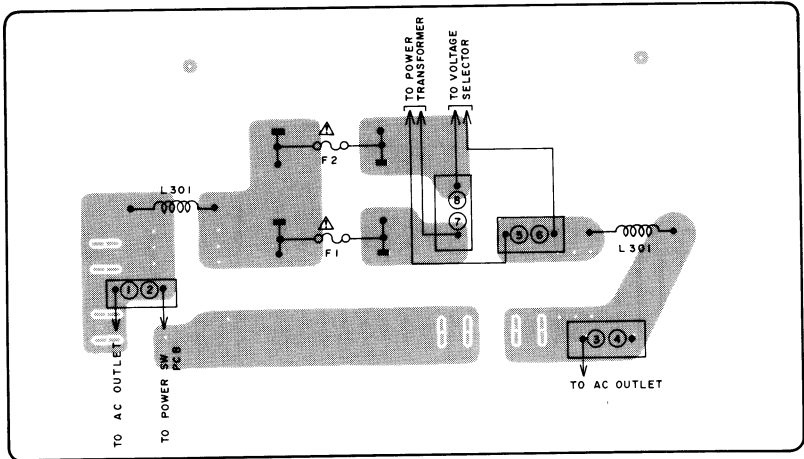
B = NPN TRANSISTOR
 B = PNP TRANSISTOR
 S G D = FET

* Indicated ∇ are V model only

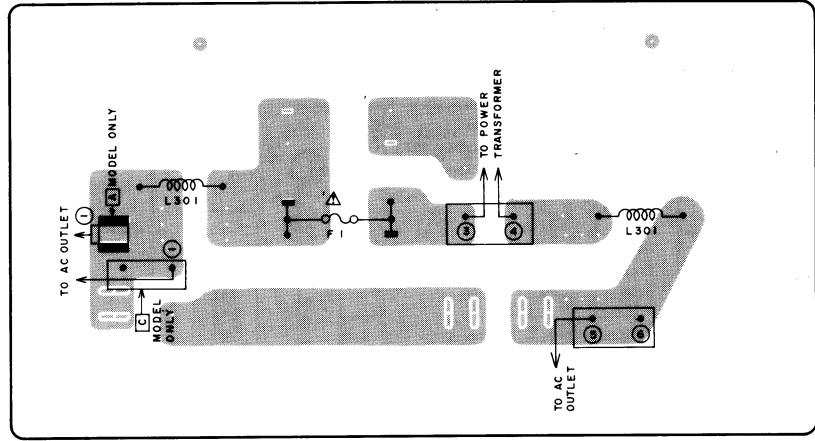
CONNECTOR (10) PCB
A2057A503J



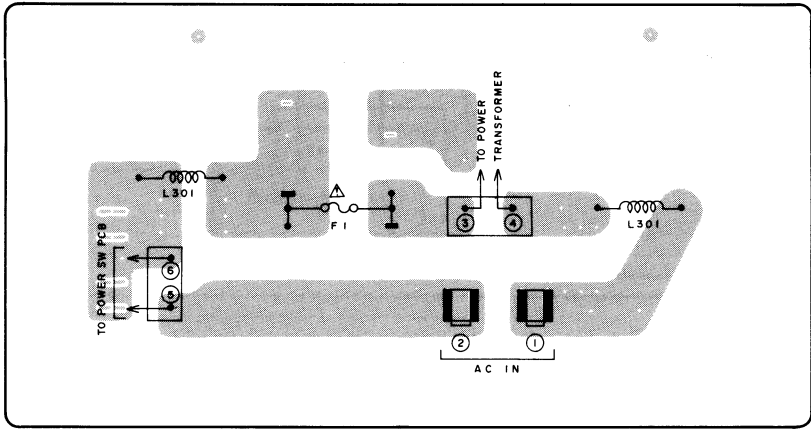
REGULATOR PCB
A2057A503H



FUSE PCB A2057A503C U MODEL

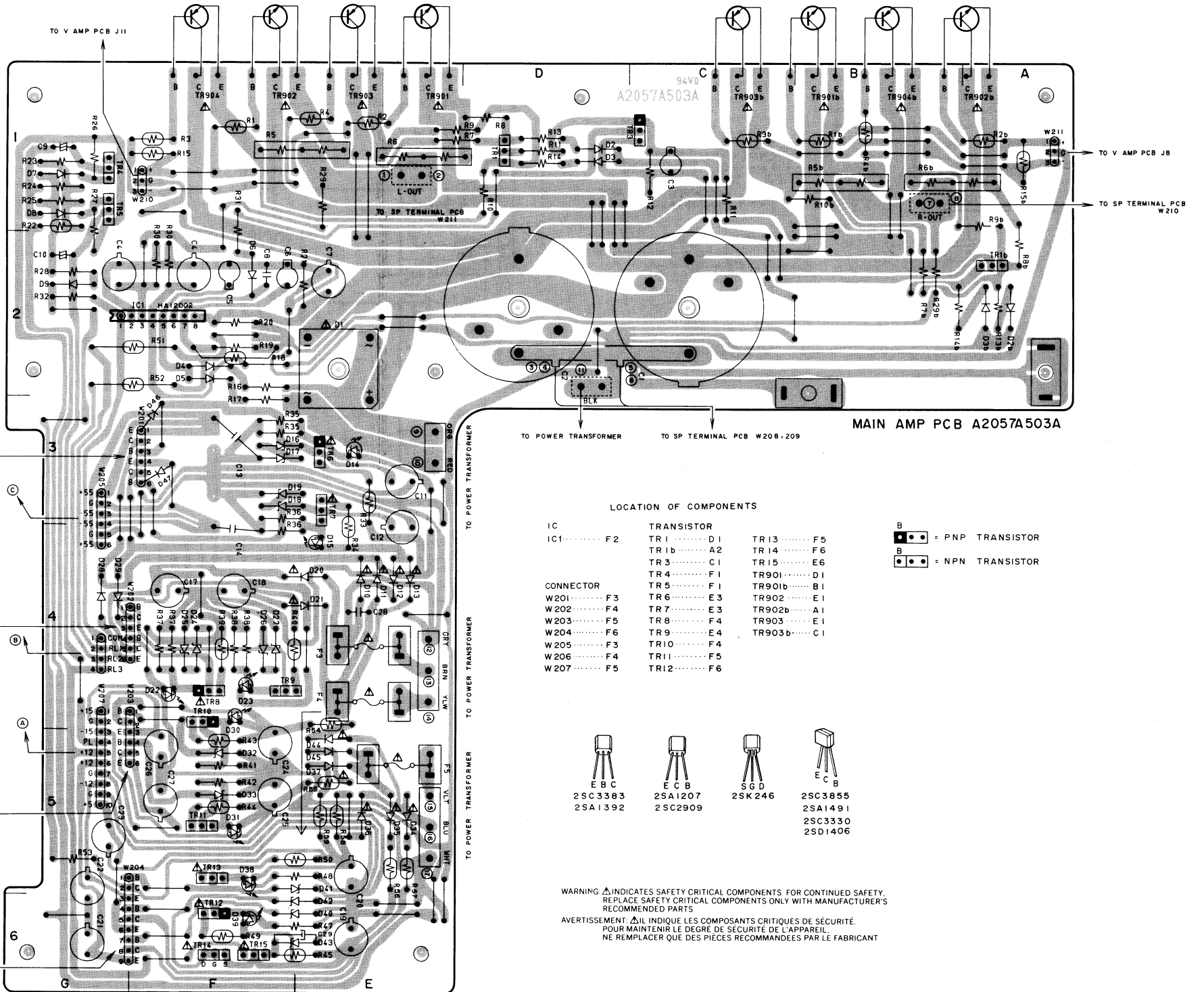
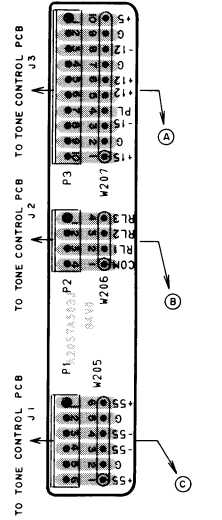


FUSE PCB A2057A503C A/C MODEL



FUSE PCB A2057A503C E/V/B MODEL

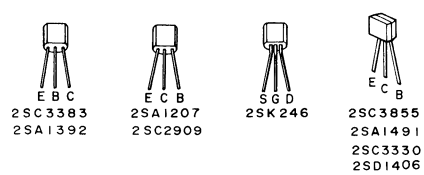
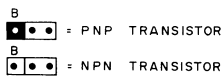
CONNECTOR (10) PCB A2057A503J



MAIN AMP PCB A2057A503A

LOCATION OF COMPONENTS

| | | | | |
|-----------|--------------|------------|--------------|----------------|
| IC | IC1..... F2 | TRANSISTOR | TR1..... D1 | TR13..... F5 |
| | | | TR1b..... A2 | TR14..... F6 |
| | | | TR3..... C1 | TR15..... E6 |
| | | | TR4..... F1 | TR901..... D1 |
| CONNECTOR | W201..... F3 | | TR5..... F1 | TR901b..... B1 |
| | W202..... F4 | | TR6..... E3 | TR902..... E1 |
| | W203..... F5 | | TR7..... E3 | TR902b..... A1 |
| | W204..... F6 | | TR8..... F4 | TR903..... E1 |
| | W205..... F3 | | TR9..... E4 | TR903b..... C1 |
| | W206..... F4 | | TR10..... F4 | |
| | W207..... F5 | | TR11..... F5 | |
| | | | TR12..... F6 | |



WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
 AVERTISSEMENT: Δ 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.

REGULATOR PCB A2057A503H

EQUALIZER PCB A2057A504B

DAC PCB A2057A5020

V AMP PCB (1/2) A2057A504A

REC SELECTOR PCB A2057A501C

CONNECTOR (4) PCB A2057A501G

CONNECTOR (7) PCB A2057A501K

CONNECTOR (9) PCB A2057A501N

CONNECTOR (8) PCB A2057A501L

CONNECTOR (1) PCB A2057A501D

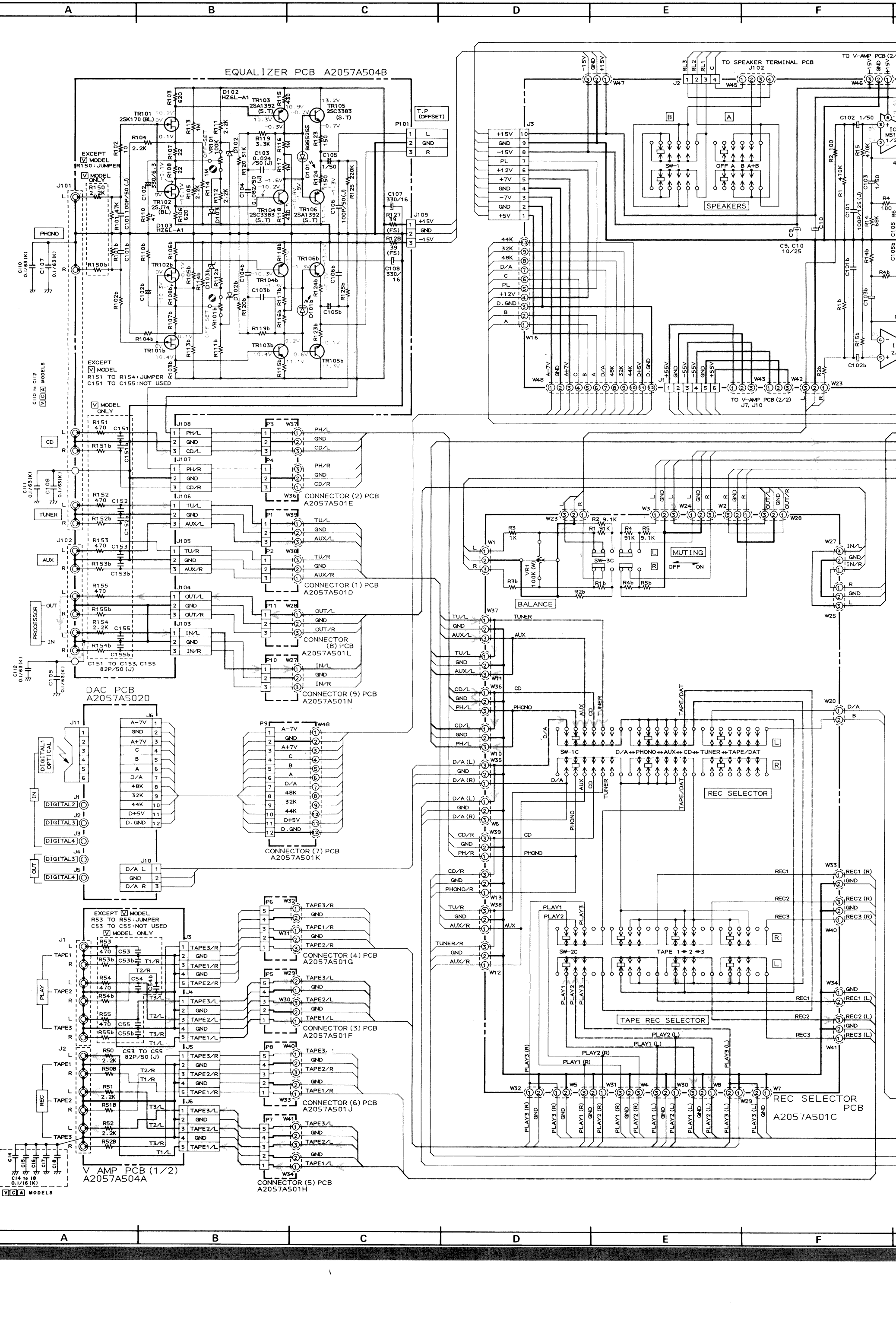
CONNECTOR (2) PCB A2057A501E

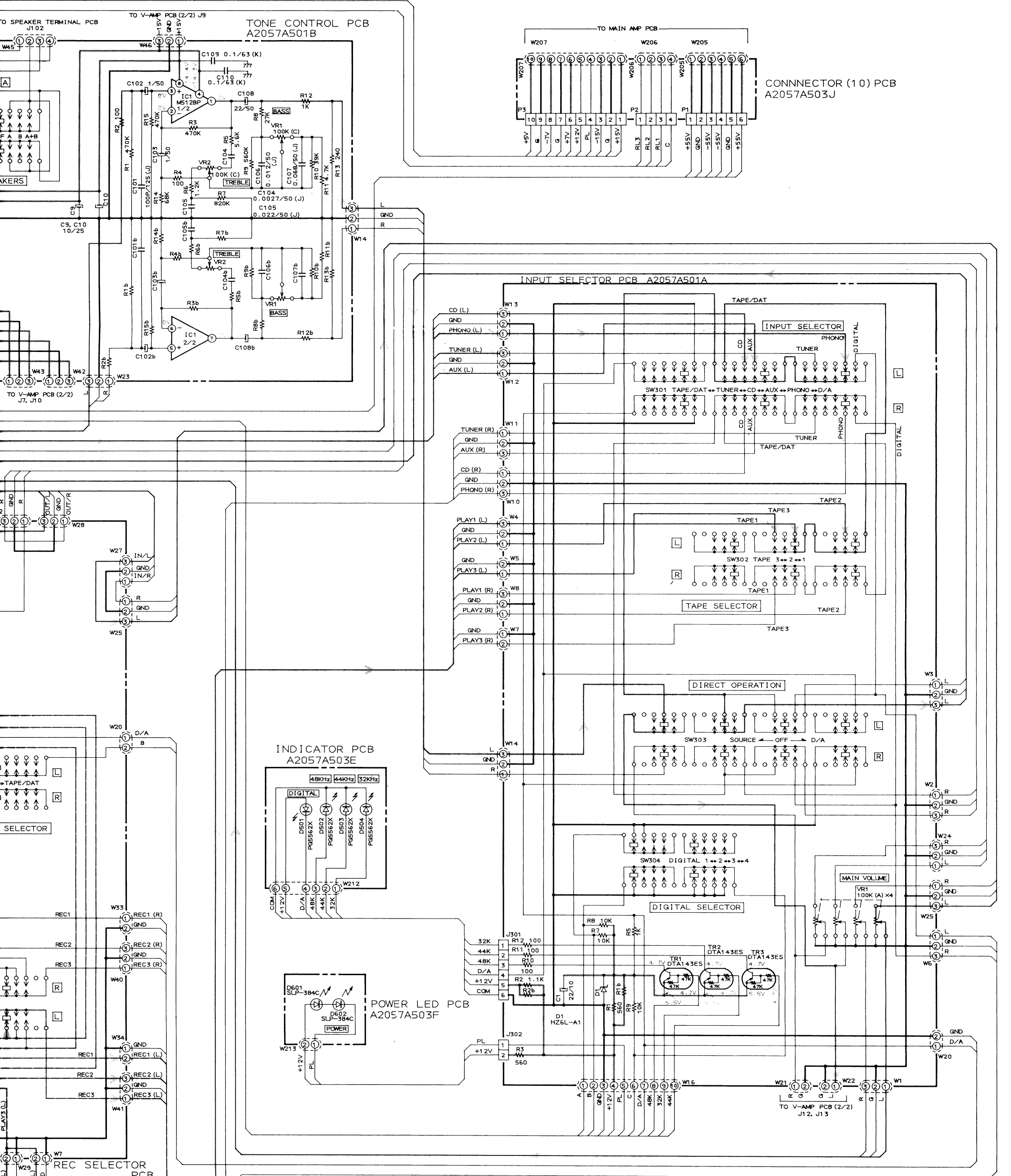
CONNECTOR (5) PCB A2057A501H

CONNECTOR (3) PCB A2057A501F

CONNECTOR (6) PCB A2057A501J

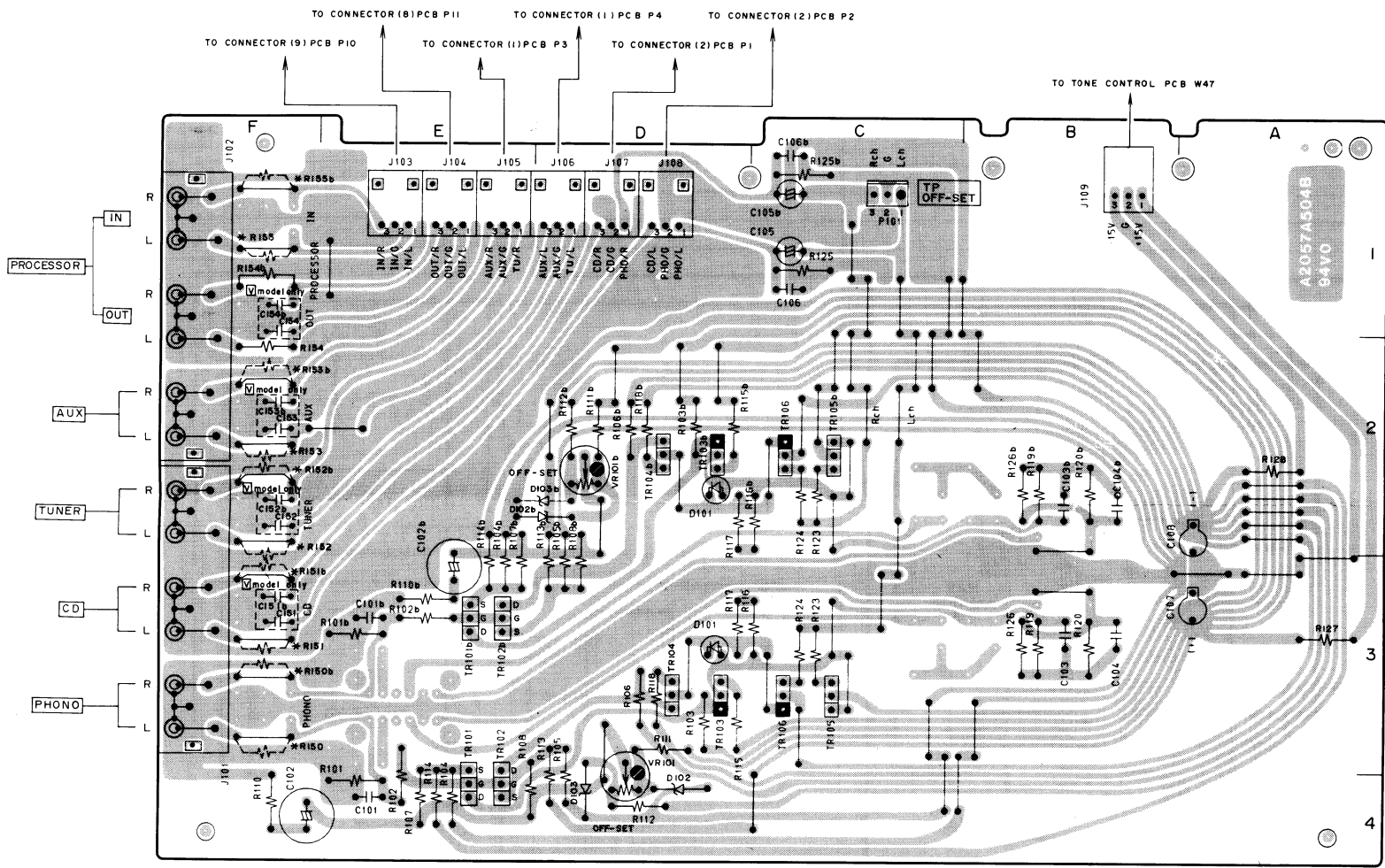
CONNECTOR (10) PCB A2057A501M





NOTE
 UNLESS OTHERWISE SPECIFIED;
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μ F25 WV(M)

AM-73
 EQUALIZER & INPUT PCB
 SCHEMATIC DIAGRAM
 NO.3-2 A205724M



EQUALIZER PCB A2057A504B

• = NPN TRANSISTOR

• = PNP TRANSISTOR

• = FET
S G D

* Indicated ∇ are \square model only

LOCATION OF COMPONENTS

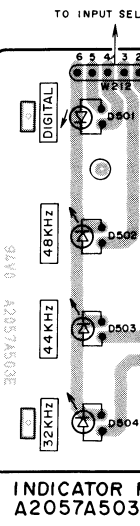
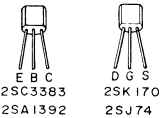
TRANSISTOR

TR101.....E4
TR101b.....E3
TR102.....E4
TR102b.....E3
TR103.....D3
TR103b.....D2
TR104.....D3
TR104b.....D2
TR105.....C3
TR105b.....C2
TR106.....C3
TR106b.....C2

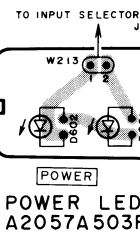
CONNECTOR

J101.....F3
J102.....F1
J103.....E1
J104.....E1
J105.....E1
J106.....D1

J107.....D1
J108.....D1
J109.....B1
PI01.....C1



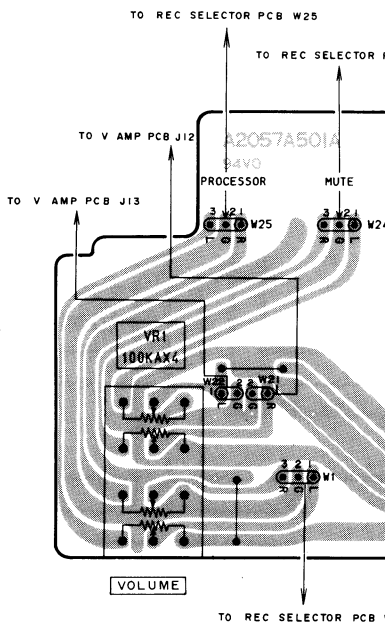
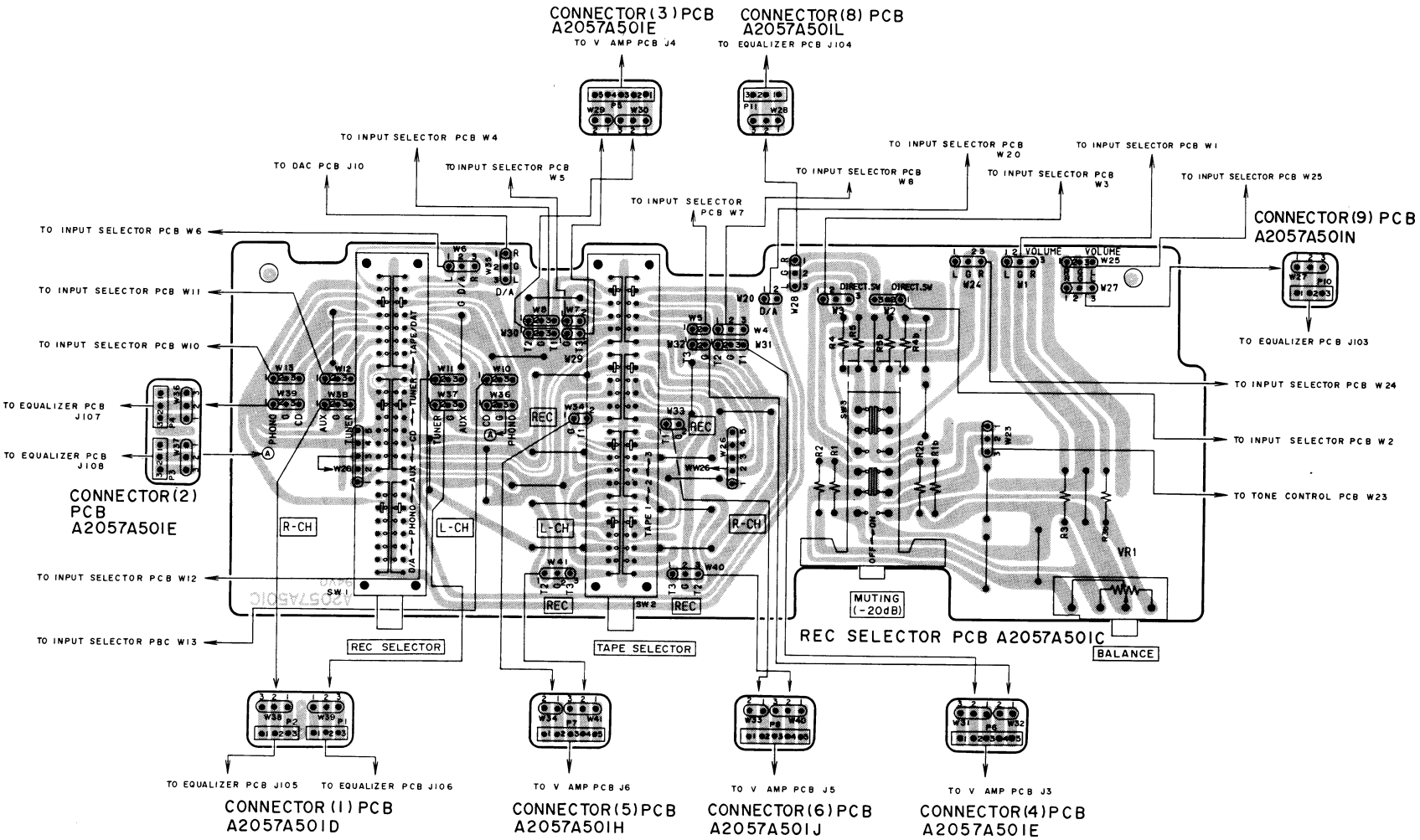
INDICATOR PCB A2057A503



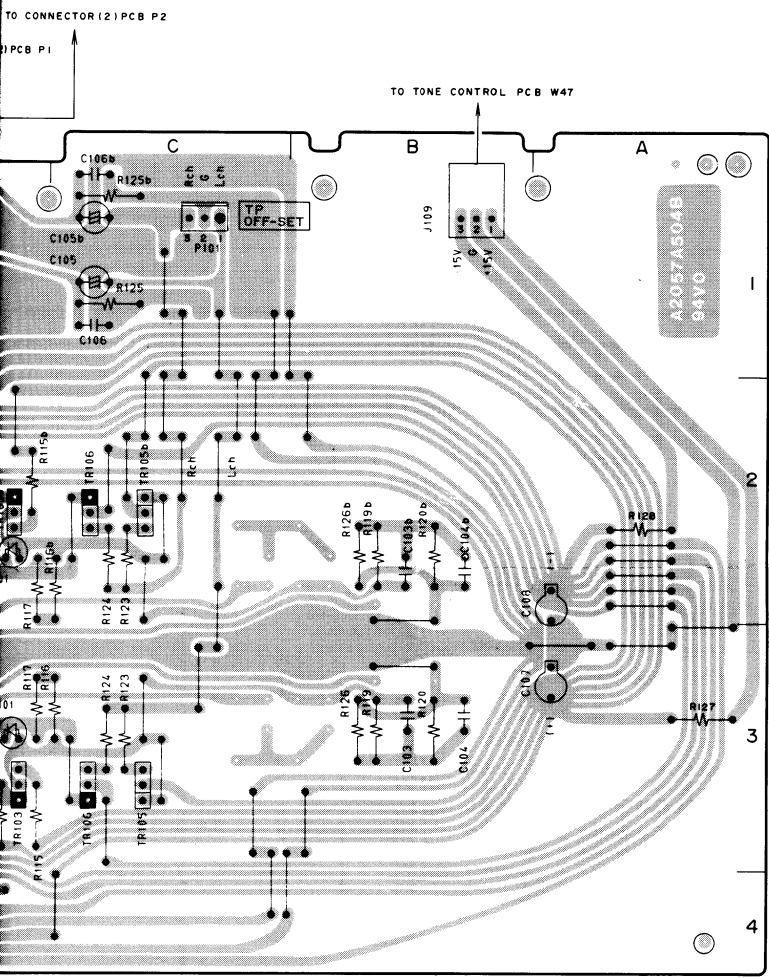
POWER LED PCB A2057A503F

CONNECTOR (3) PCB A2057A501E TO V AMP PCB J4

CONNECTOR (8) PCB A2057A501L TO EQUALIZER PCB J104



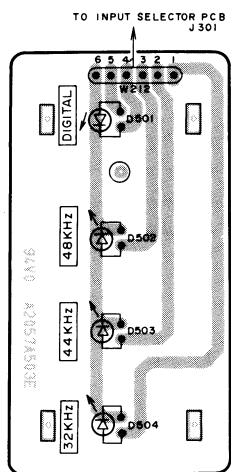
VOLUME PCB A2057A501A



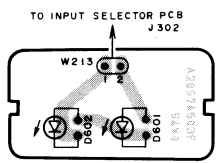
EQUALIZER PCB A2057A504B

LIST OF COMPONENTS

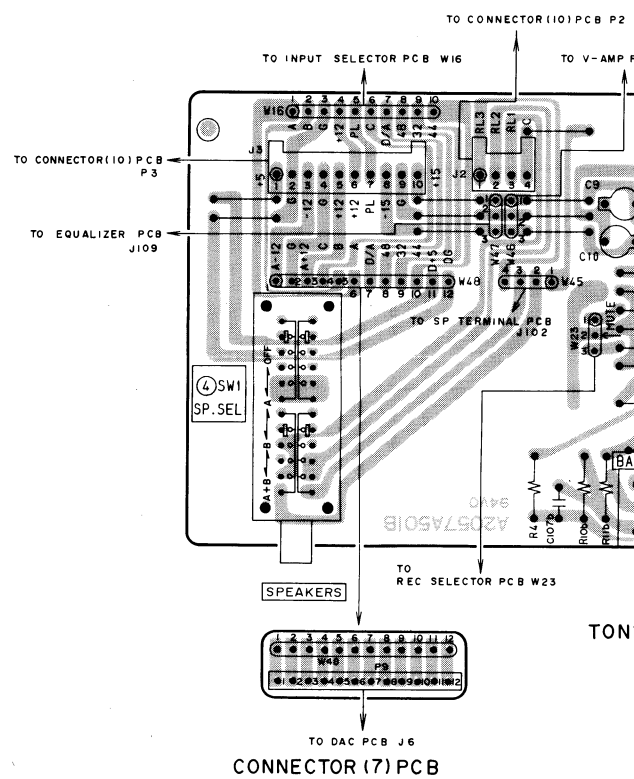
| RESISTOR | | CONNECTOR | |
|----------|---------------|-------------|-------------|
| E4 | TR104.....D3 | J101.....F3 | J107.....D1 |
| E3 | TR104b.....D2 | J102.....F1 | J108.....D1 |
| E4 | TR105.....C3 | J103.....E1 | J109.....B1 |
| E3 | TR105b.....C2 | J104.....E1 | PI01.....C1 |
| D3 | TR106.....C3 | J105.....E1 | |
| D2 | TR106b.....C2 | J106.....D1 | |



INDICATOR PCB A2057A503E

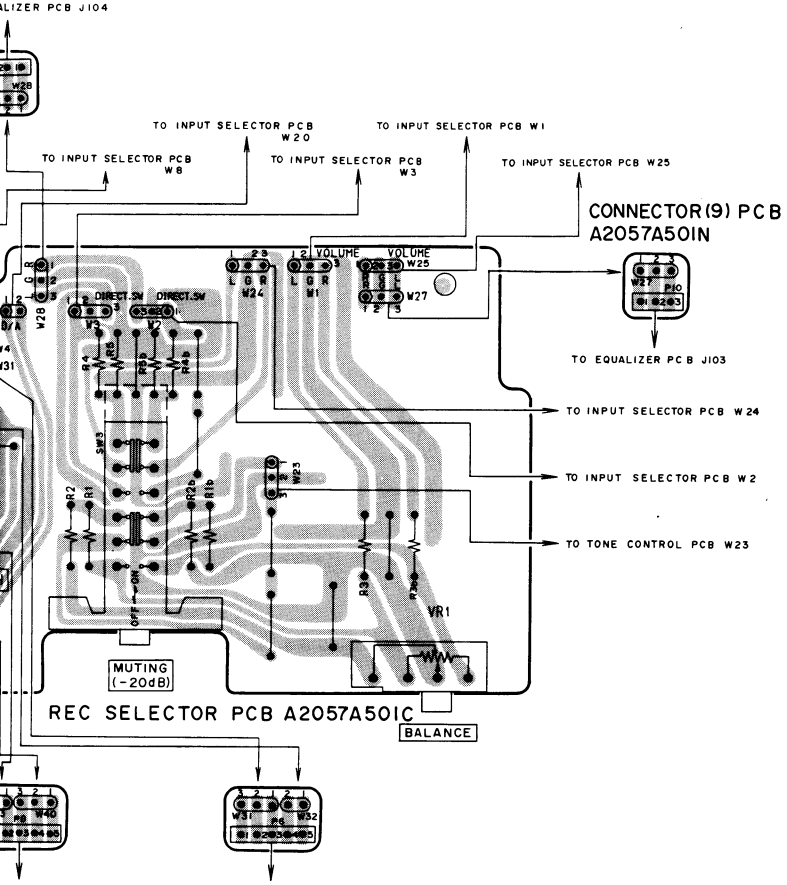


POWER LED PCB A2057A503F



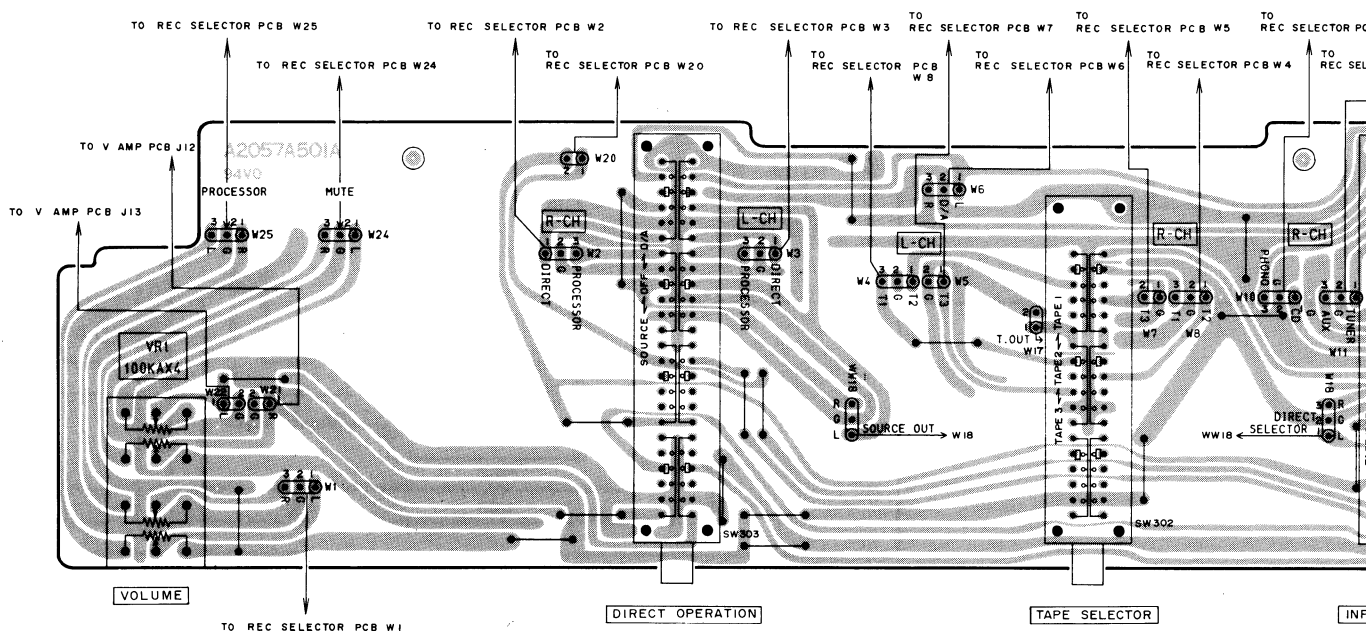
CONNECTOR (7) PCB

CONNECTOR (8) PCB A2057A501L

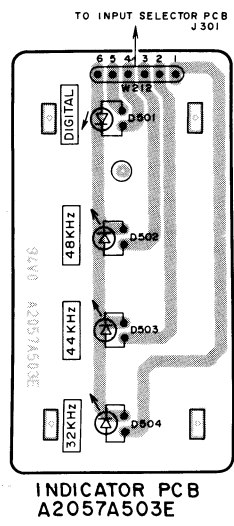


REC SELECTOR PCB A2057A501C

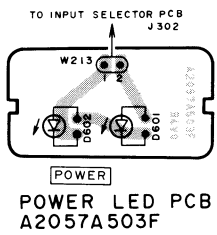
CONNECTOR (6) PCB A2057A501J



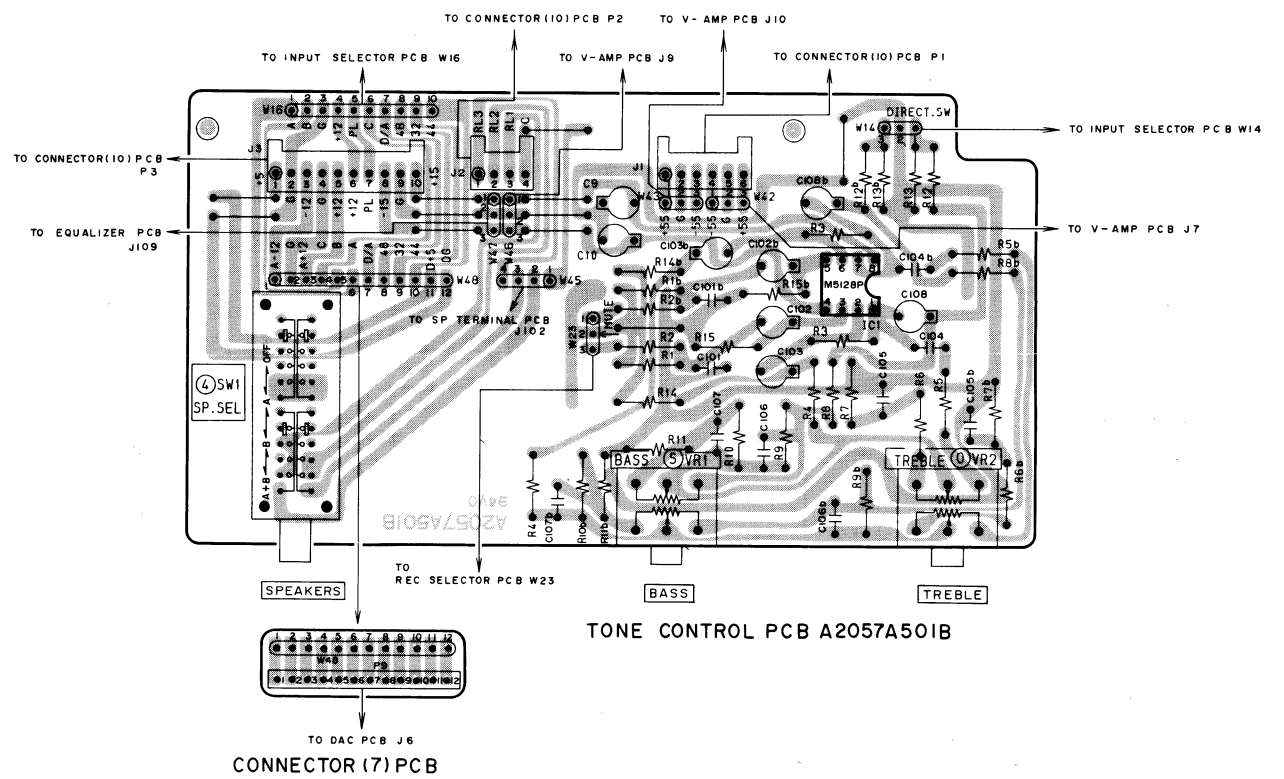
CONNECTOR (4) PCB A2057A501E



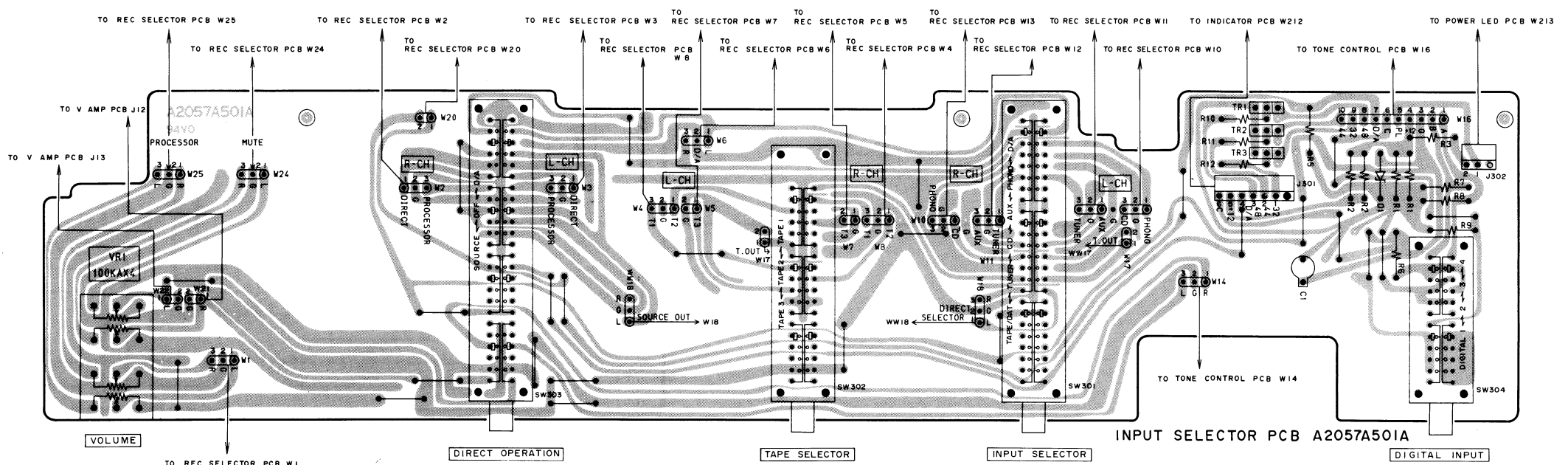
INDICATOR PCB
A2057A503E



POWER LED PCB
A2057A503F



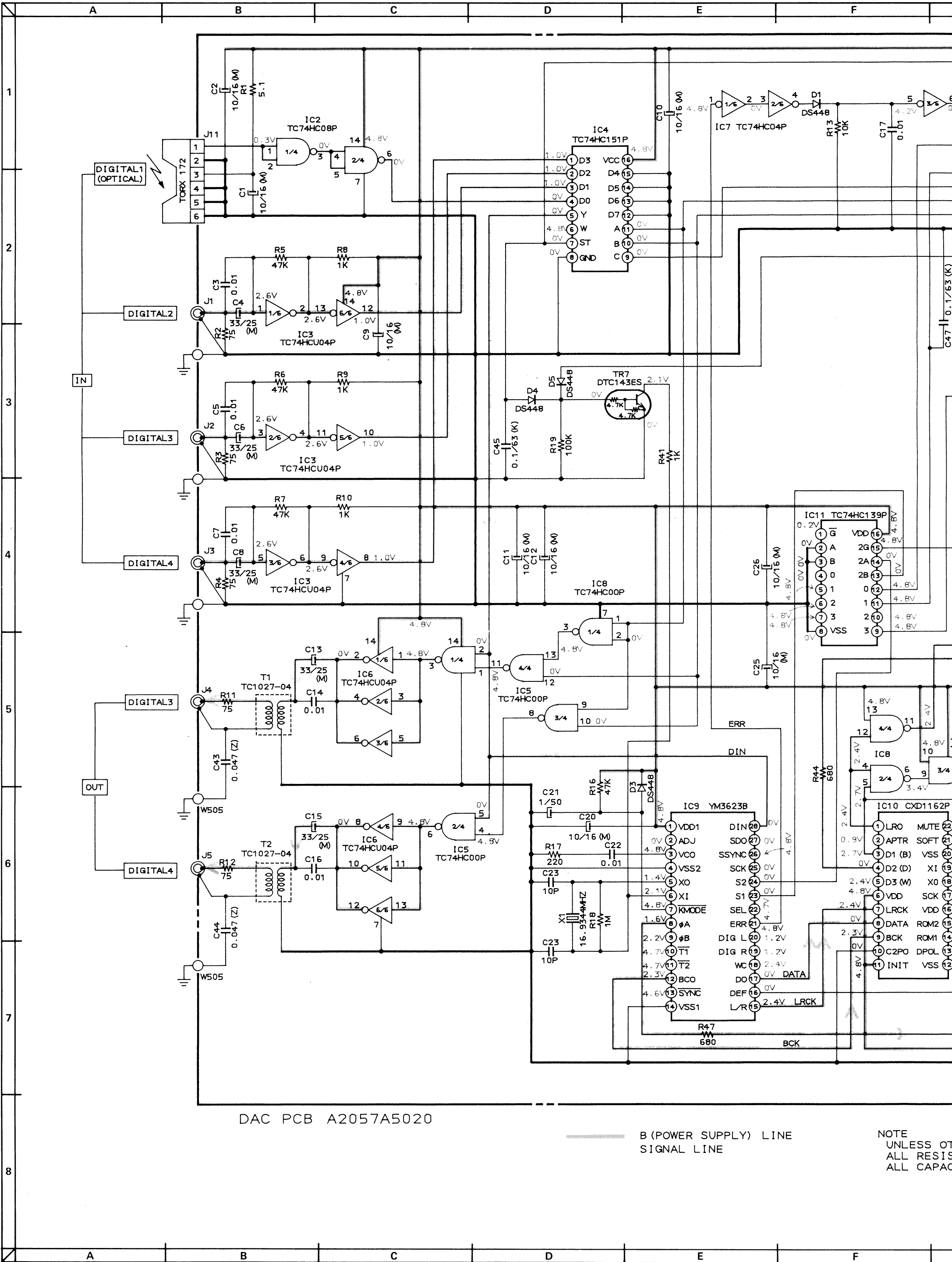
TONE CONTROL PCB A2057A501B



INPUT SELECTOR PCB A2057A501A

□ = NPN TRANSISTOR

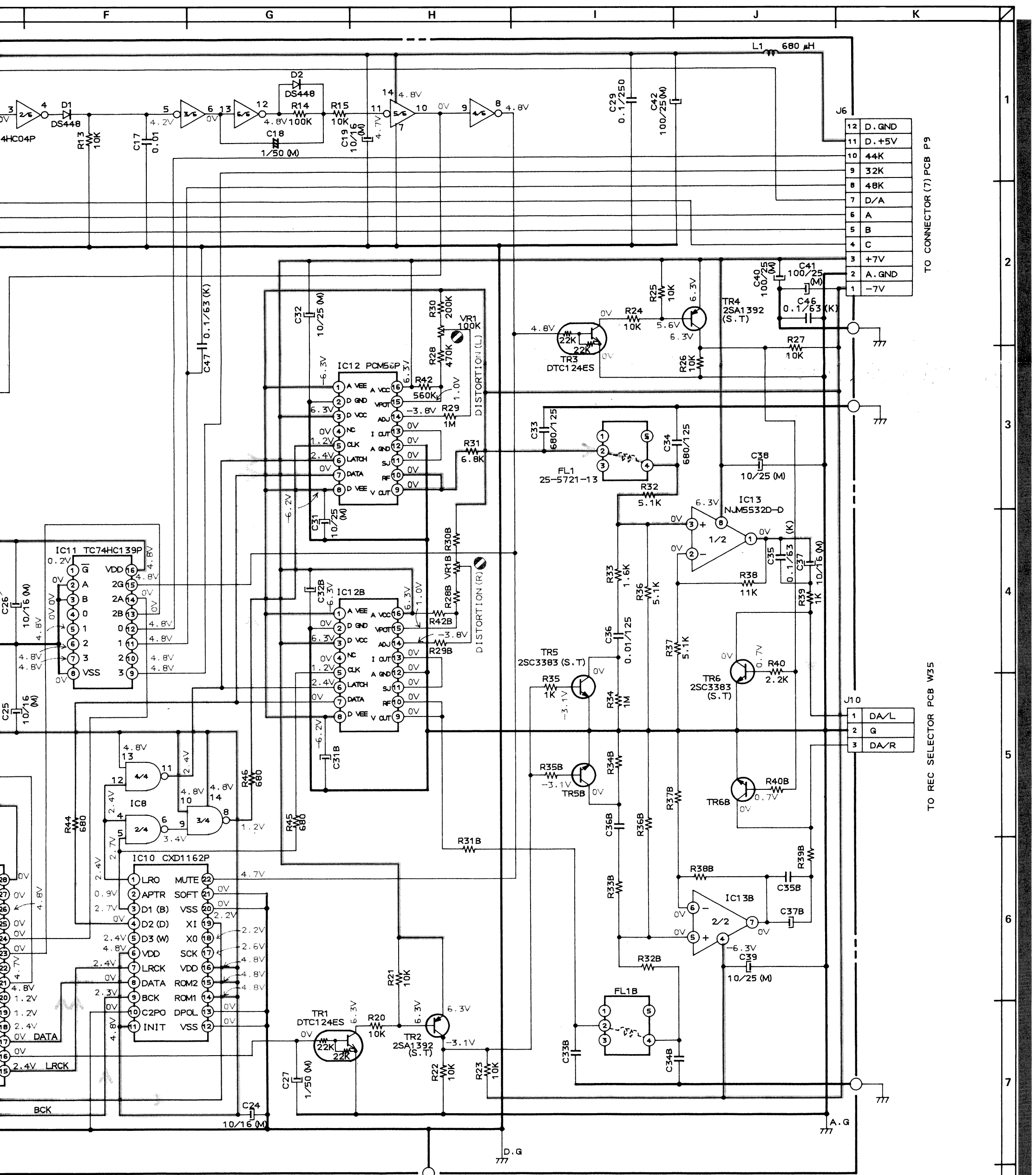




DAC PCB A2057A5020

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

NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS ARE IN OHMS
 ALL CAPACITORS ARE IN FARADS



TO CONNECTOR (7) PCB P9

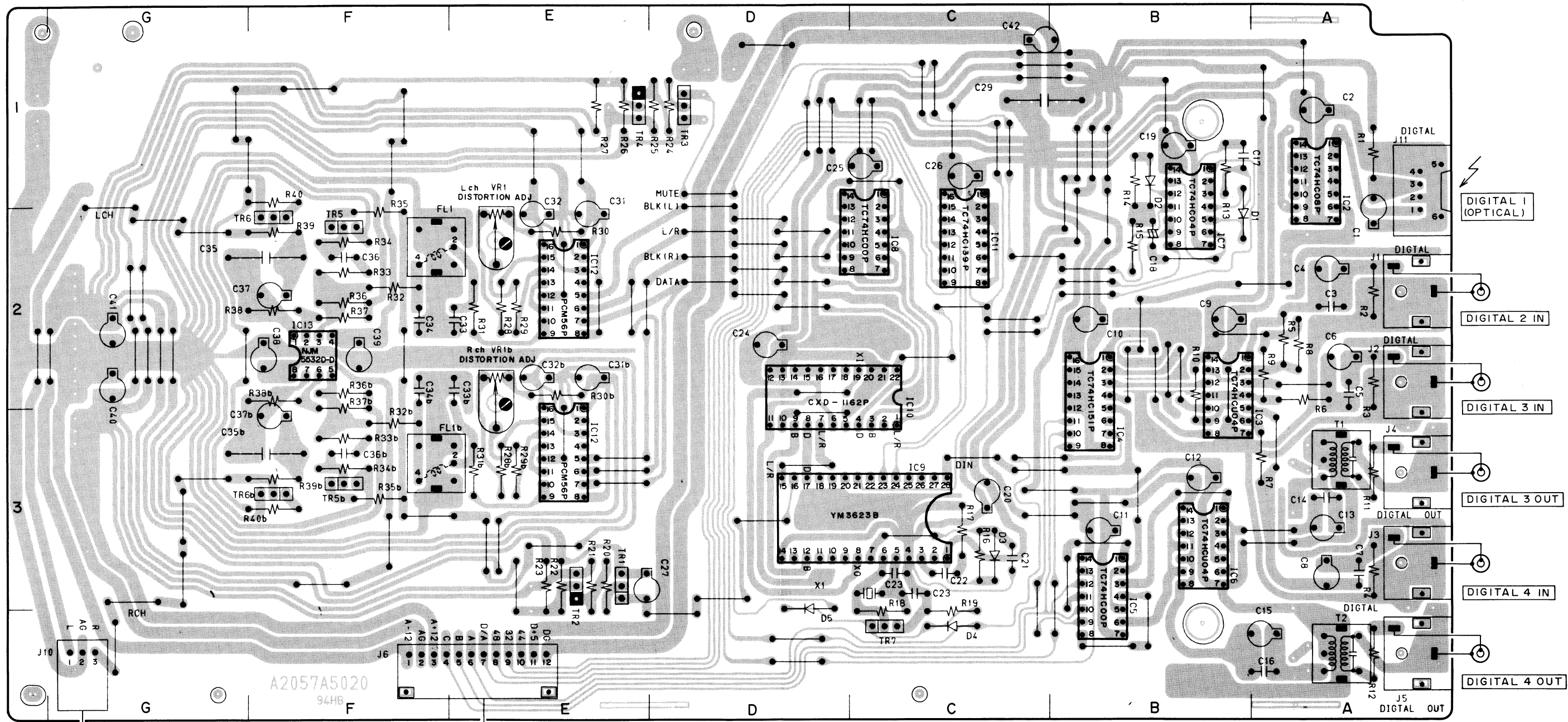
| | |
|----|--------|
| 12 | D. GND |
| 11 | D. +5V |
| 10 | 44K |
| 9 | 32K |
| 8 | 48K |
| 7 | D/A |
| 6 | A |
| 5 | B |
| 4 | C |
| 3 | +7V |
| 2 | A. GND |
| 1 | -7V |

TO REC SELECTOR PCB W35

| | |
|---|------|
| 1 | DA/L |
| 2 | G |
| 3 | DA/R |

NOTE
 UNLESS OTHERWISE SPECIFIED:
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μ F50WV(J)

AM-73
 DAC PCB
 SCHEMATIC DIAGRAM
 NO. 3-3 A205725M



DAC PCB A2057A5020

TO REC SELECTOR PCB W35

TO CONNECTOR (7) PCB P9

LOCATION OF COMPONENTS

| | | | | | | | | | | | | | |
|------------|------|------|------|------|------|-------|------|-------|-------|-------|-------|--------|-------|
| IC | IC 2 | IC 3 | IC 4 | IC 5 | IC 6 | IC 7 | IC 8 | IC 9 | IC 10 | IC 11 | IC 12 | IC 12b | IC 13 |
| | A1 | B2 | B2 | B3 | B3 | B2 | C2 | C3 | D2 | C2 | E2 | E3 | F2 |
| TRANSISTOR | TR 1 | TR 2 | TR 3 | TR 4 | TR 5 | TR 5b | TR 6 | TR 6b | TR 7 | | | | |
| | E3 | E3 | D1 | E1 | F2 | F3 | F2 | F3 | C4 | | | | |
| CONNECTOR | J 6 | J 10 | | | | | | | | | | | |
| | E4 | G4 | | | | | | | | | | | |

