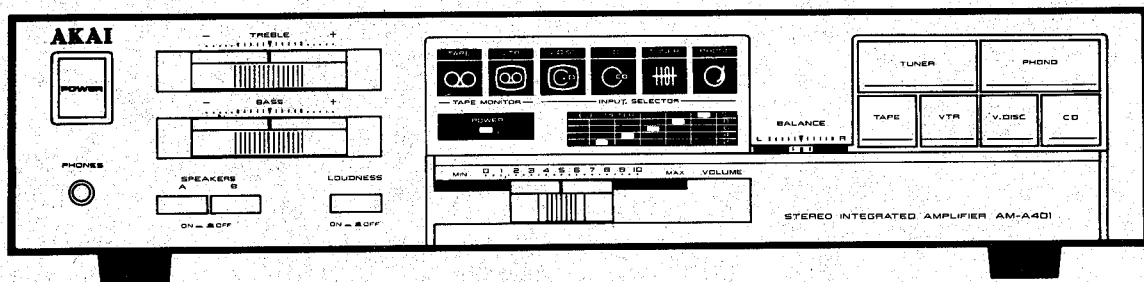


# AKAI SERVICE MANUAL



STEREO INTEGRATED AMPLIFIER

MODEL **AM-A401**



## STEREO INTEGRATED AMPLIFIER

### MODEL AM-A401

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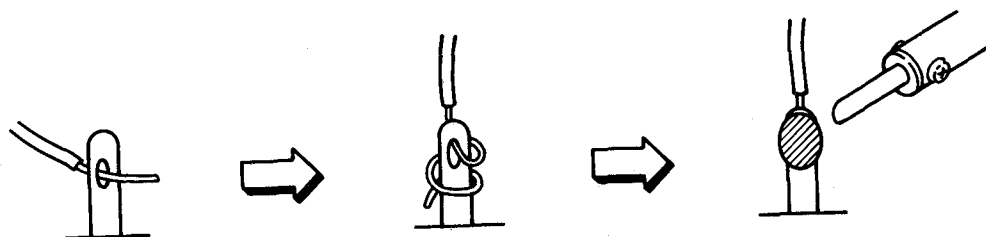
## SAFETY INSTRUCTIONS

### 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 Mohms, but for equipment with external antenna terminals (tuner, receiver, etc.) and is intended for [C] or [A], specified insulation resistance should be more than 2.2 Mohms (ground terminals, microphone jacks, headphone jacks, line-in-out jacks etc.)

### PRECAUTIONS DURING SERVICING

1. Parts identified by the  $\Delta$  symbol parts 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 microswitch (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.

SECTION 1

SERVICE MANUAL

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For basic adjustments, measuring methods, and operating principles, refer to GENERAL TECHNICAL MANUAL.

## I. SPECIFICATIONS

### POWER AMPLIFIER SECTION

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| POWER OUTPUT (by FTC) 20Hz to 20kHz | 8 ohms<br>80W/0.1%                         |
| MUSIC POWER (BOTH CHANNELS)         | 380W                                       |
| POWER BANDWIDTH (IHF -3dB, 8 ohms)  | 10Hz to 60kHz (0.5%)                       |
| S/N (IHF-A)                         | PHONO 72dB<br>CD/AUX 95dB                  |
| RESIDUAL NOISE (8 ohms)             | 0.5mV                                      |
| CHANNEL SEPARATION (IHF, 1kHz)      | 45dB                                       |
| DAMPING FACTOR (1kHz, 8 ohms)       | 30                                         |
| REQUIRED SPEAKER IMPEDANCE          | A or B: 8 to 16 ohms A and B: 8 to 16 ohms |

### VIDEO SECTION

|                             |                                            |
|-----------------------------|--------------------------------------------|
| INPUT SENSITIVITY/IMPEDANCE | VTR 1Vp-p/75 ohms<br>V. DISC 1Vp-p/75 ohms |
| OUTPUT LEVEL/IMPEDANCE      | 1Vp-p/75 ohms                              |

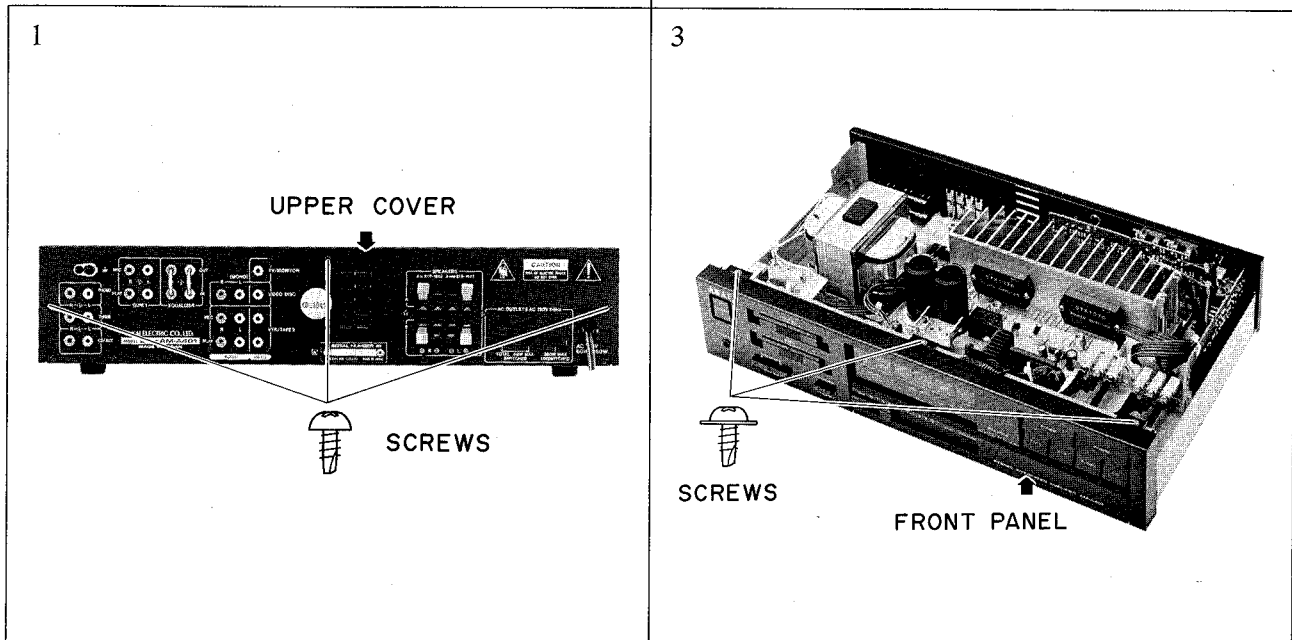
### PRE AMPLIFIER SECTION

|                             |                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| INPUT SENSITIVITY/IMPEDANCE | PHONO 2mV/47kohms<br>AUX 150mV/47kohms<br>TUNER 150mV/47kohms<br>TAPE 150mV/47kohms<br>VTR (AUDIO) 150mV/47kohms<br>V. DISC (AUDIO) 150mV/47kohms |
| OUTPUT LEVEL/IMPEDANCE      | TAPE REC 150mV/1kohms                                                                                                                             |
| FREQUENCY RESPONSE          | PHONO (RIAA DEVIATION) $\pm 0.5$ dB<br>TUNER, AUX, TAPE 5Hz to 100kHz (-3dB)                                                                      |
| TONE CONTROL                | BASS $\pm 8$ dB<br>TREBLE $\pm 8$ dB                                                                                                              |
| PHONO MAX. INPUT LEVEL      | 120mV                                                                                                                                             |
| POWER REQUIREMENTS          | 120V, 60Hz for USA & Canada                                                                                                                       |
| DIMENSIONS                  | 440(W) x 100(H) x 267(D) mm<br>(17.3 x 3.9 x 10.5 inches)                                                                                         |
| WEIGHT                      | 6.7kg (14.8 lbs)                                                                                                                                  |

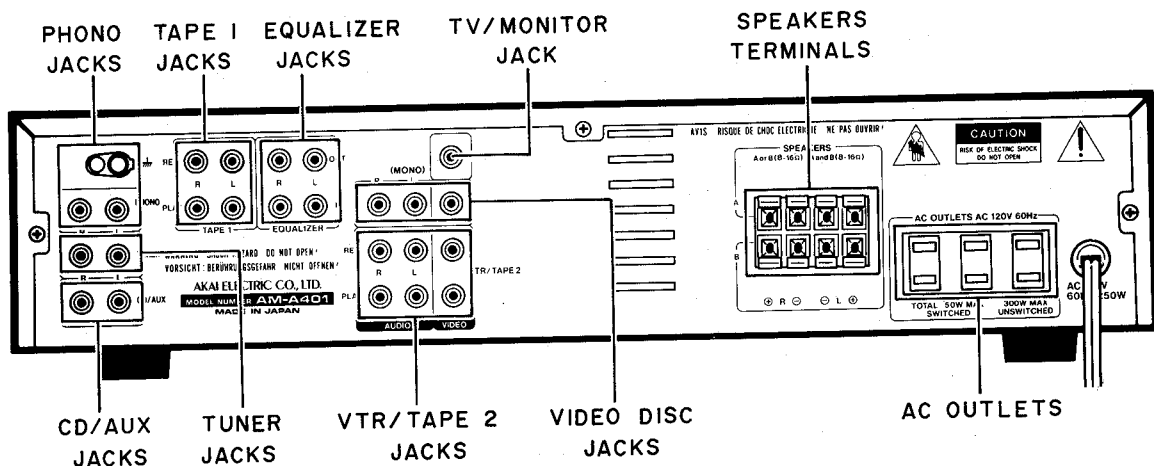
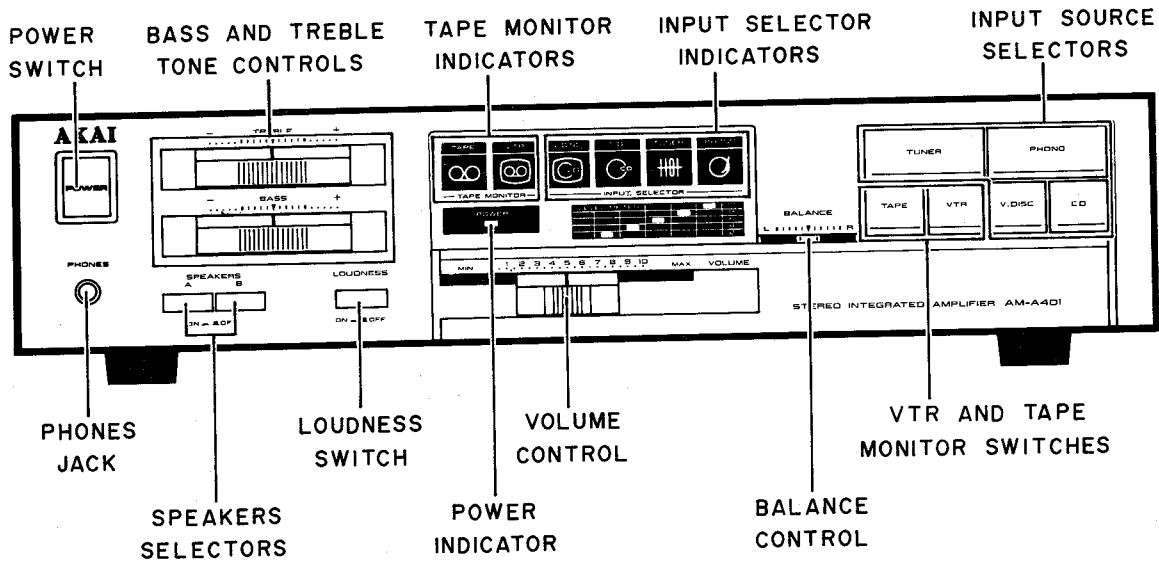
\* For improvement purposes, specifications and design are subject to change without notice.

## II. DISMANTLING OF UNIT

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

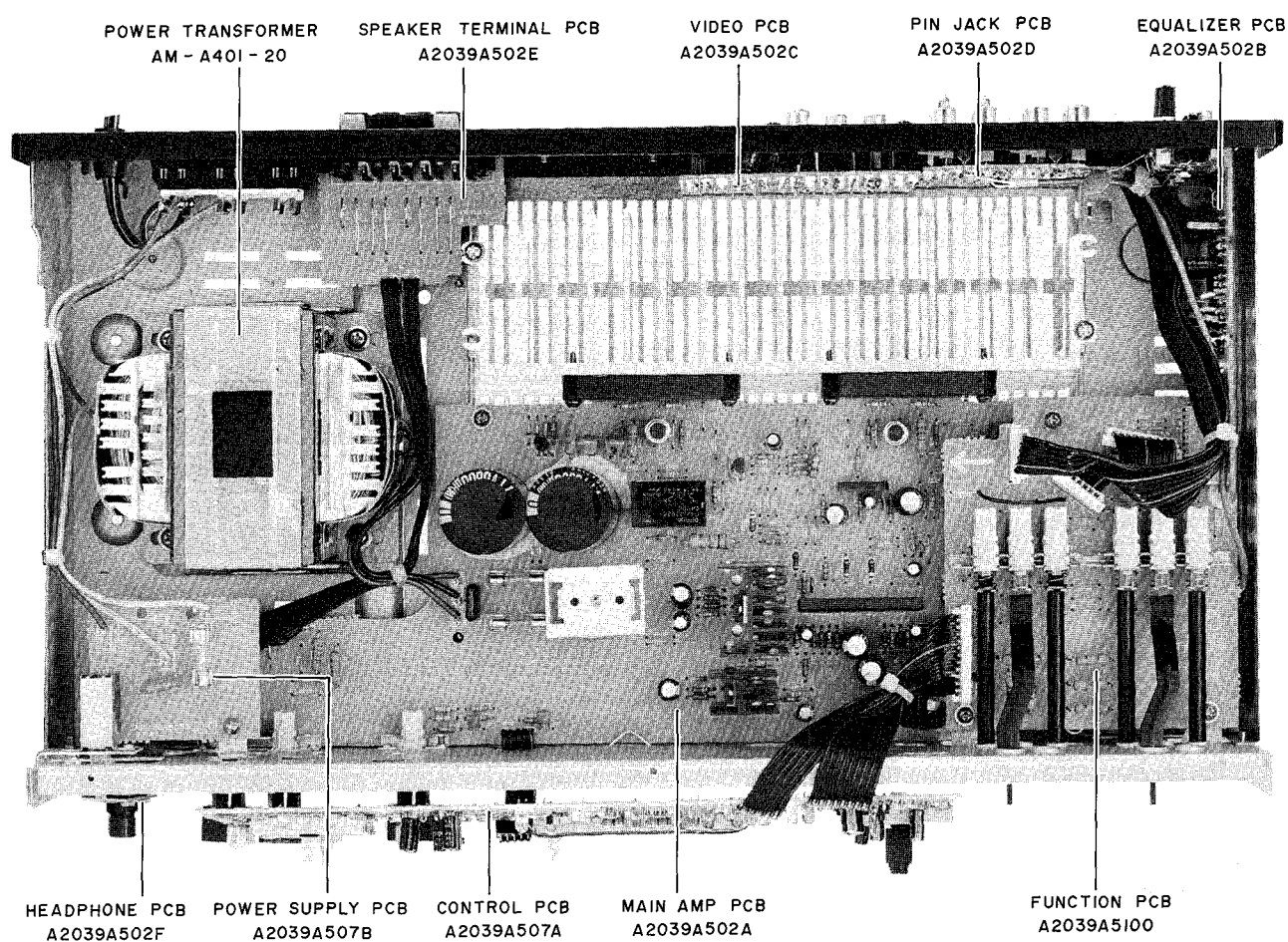


### III. CONTROLS





## IV. PRINCIPAL PARTS LOCATION



## V. ADJUSTMENT

### 5-1. LEVEL METER SENSITIVITY ADJUSTMENT

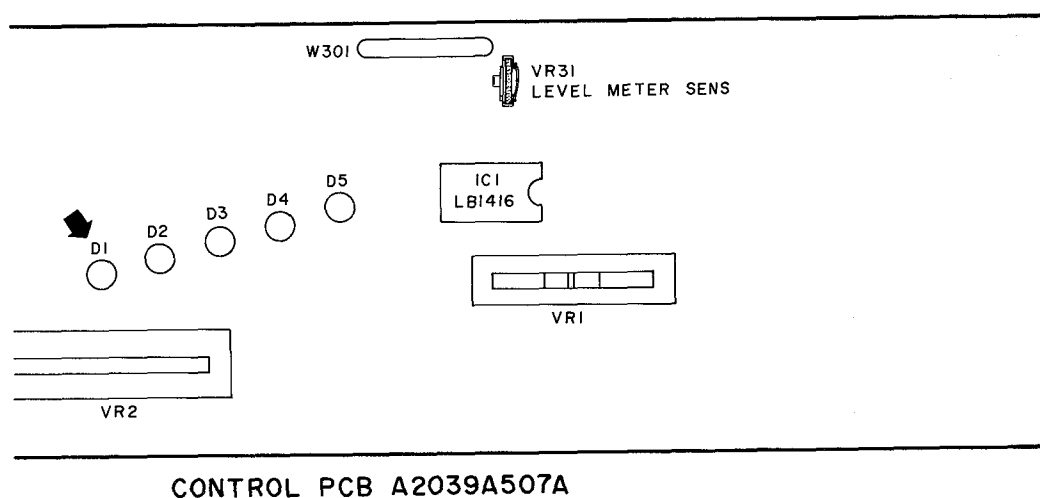


Fig. 5-1 Control PCB

This adjustment is not necessary if the level meter shows no levels with no signal input. However if the level meter shows some levels in spite of no signal input, adjust VR31 to the point where the first LED (D1) is extinguished.



## VI. PC BOARD TITLES AND IDENTIFICATION NUMBERS

| PC BOARD TITLE |          | PC BOARD NUMBER | REMARKS |
|----------------|----------|-----------------|---------|
| MAIN AMP       | PC BOARD | A2039A502A      | A       |
| EQUALIZER      | PC BOARD | A2039A502B      | A       |
| VIDEO          | PC BOARD | A2039A502C      | A       |
| PIN JACK       | PC BOARD | A2039A502D      | A       |
| SPEAKER        | PC BOARD | A2039A502E      | A       |
| HEADPHONE      | PC BOARD | A2039A502F      | A       |
| CONTROL        | PC BOARD | A2039A507A      | A       |
| POWER SUPPLY   | PC BOARD | A2039A507B      | A       |
| FUNCTION       | PC BOARD | A2039A5100      |         |



## SECTION 2

**PARTS LIST**

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Resistor and Capacitor which is not listed in this parts list, please refer to COMMON LIST FOR SERVICE PARTS.



**ATTENTION**

1. When placing an order for parts, be sure to list the parts no., model no., and description of each part. If any of this information is omitted, there are instances in which parts cannot be shipped or the wrong parts will be delivered.
2. Please be careful not to make a mistake in the parts no. If the parts no. is in error, a part different from the one ordered may be delivered.
3. Because part numbers and part definitions and supply in the Preliminary Parts List 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 shows those parts which are considered necessary for repairs. Other parts, such as resistors and capacitors, are shown in the "Common List for Service Parts" from which these parts should be selected and parts.
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) P.C Board Block

**2. HEAD BASE BLOCK**

| REF. NO. | PART NO.      | DESCRIPTION             |
|----------|---------------|-------------------------|
| 2-1x     | BH-T2023A320A | HEAD BASE BLOCK GX-F66R |
| 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     | CS ANGLE ADJUST SPRING  |

SP (Service Parts) Classification

A small "x" indicates the inability to show that particular part 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. SYS. CON. P C BOARD BLOCK**

| REF. NO.  | PART NO.      | DESCRIPTION                     |
|-----------|---------------|---------------------------------|
| 6-1       | BA-T2034A070A | PC SYS CON BLK GX-F44R          |
| 6-1C1     | EI-324536     | IC HD14049BP                    |
| 6-1C2     | EI-336801     | IC MB8841-564M                  |
| 6-1C3     | EI-331661     | IC SN7405N                      |
| 6-1C4     | EI-336725     | IC M54527P                      |
| 6-TR1to4  | ET-200985     | TR 2SC2603 F,G                  |
| 6-TR5to28 | ET-554657     | TR 2SA733A P,Q                  |
| 6-D1      | ED-318292     | D SILICON H 1S2473T-77 T26      |
| 6-D2to4   | ED-308952     | D GERMA V 1K34A-LR F07          |
| 6-D5to10  | ED-318292     | D SILICON H 1S2473T-77 T26      |
| 6-X1      | EI-318384     | OSC X'TAL NC-18C<br>3.579545MHZ |

SP (Service Parts) Classification

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

5. The kind of part and its installation position can both be determined by the Part Number. To determine where a part number is listed, utilize the Parts Index at the end of the Parts List. It is necessary first of all to find the Part Number. This can be accomplished by using the Reference Number listed at the right of the part number in the Parts Index.

**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

## RECOMMENDED SPARE PARTS

Because, if the parts listed below are on hand, almost any repair can be accomplished, we suggest that you stock these Recommended Spare Parts Items.

| REF.<br>NO. | PART NO.  | DESCRIPTION                    |
|-------------|-----------|--------------------------------|
| 1 N         | BT-360272 | △ TRANS POWER AM-A401-20(A)    |
| 2           | ED-200749 | △ D SILICON DBA60-K15 400/6.0A |
| 3           | ED-328486 | △ D ZENER H HZ15 3             |
| 4           | ED-355605 | D LED AY5525S AMBER            |
| 5           | ED-356424 | D LED BG5525S GREEN            |
| 6           | ED-356421 | D LED BR5505S RED              |
| 7           | ED-348990 | D SILICON H DS446              |
| 8           | ED-301911 | D SILICON H DS448              |
| 9           | ED-348205 | D SILICON V MC931 DOUBLE       |
| 10          | ED-346618 | D ZENER H HZ15 1               |
| 11          | EF-346139 | △ FUSE TSC 125V 5.00A          |
| 12          | EF-345658 | △ FUSE TSC 125V 8.00A          |
| 13          | EI-337228 | △ IC M5218L                    |
| 14          | EI-351507 | △ IC STK1070A                  |
| 15          | EI-359415 | △ IC STK3062-3                 |
| 16          | EI-358562 | IC LB1416                      |
| 17          | EI-349719 | IC M5218P                      |
| 18          | EI-344764 | IC M5218P-21                   |
| 19          | EI-354080 | IC UPC1237H                    |
| 20          | EQ-337159 | △ RELAY POW 64Z-2282P 2NO 24V  |
| 21          | ER-318248 | △ R FUSE ERD2FC S10 1/4W 47R0G |
| 22          | ER-331188 | △ R FUSE ERD2FC S10 1/4W 8R2J  |
| 23          | ER-328278 | △ R FUSE ERD2FC 1/4W 10R0G     |
| 24          | ES-337902 | △ SW PUSH SDLD1P002 01-1       |
| 25          | ES-358556 | SW PUSH ESB-621519 2 THROW     |
| 26          | ES-358555 | SW PUSH ESB-62672 2-20-02S     |
| 27          | ES-358564 | SW PUSH ESB-62969 6 THROW      |
| 28          | ET-347026 | △ TR 2SB507HP E,F              |
| 29          | ET-344176 | △ TR 2SD313HP F                |
| 30          | ET-355216 | TR 2SA1317 T,U                 |
| 31          | ET-305463 | TR 2SA970 GR,BL                |
| 32          | ET-307195 | TR 2SC2240 GR,BL               |
| 33          | ET-308141 | TR 2SC2603 G                   |
| 34          | ET-360067 | TR 2SC3330 T,U                 |
| 35          | EV-358539 | VR SLIDE 25P1SVOF W105         |
| 36          | EV-358541 | VR SLIDE 25P2SV C104           |
| 37          | EV-358563 | VR SLIDE 60P2SVOM B254         |

“NOTE” N: New Parts

## 1. PC BOARD BLOCK

| REF. NO. | PART NO.      | DESCRIPTION                 |
|----------|---------------|-----------------------------|
| 1-1      | BA-A2039A020E | PC MAIN BLK AM-A301(A)      |
| 1-2      | BA-A2039A030B | PC CONTROL BLK AM-A301(C,A) |

PC MAIN BLK consists of following PC BOARDS.

- MAIN AMP PC BOARD
- EQUALIZER PC BOARD
- VIDEO PC BOARD
- PIN JACK PC BOARD
- SPEAKER TERMINAL PC BOARD
- HEAD PHONE PC BOARD

PC CONTROL BLK consists of following PC BOARDS.

- CONTROL PC BOARD
- POWER SUPPLY PC BOARD

## 2. MAIN AMP PC BOARD

| REF. NO.                 | PART NO.  | DESCRIPTION                     |
|--------------------------|-----------|---------------------------------|
| <b>MAIN AMP PC BOARD</b> |           |                                 |
| 2-IC1                    | EI-359415 | △ IC STK3062-3                  |
| 2-IC3                    | EI-337228 | IC M5218L0                      |
| 2-IC4                    | EI-354080 | IC PUC1237H                     |
| 2-TR1                    | ET-307195 | TR 2SC2240 GR,BL                |
| 2-TR2                    | ET-305463 | TR 2SA970 GR,BL                 |
| 2-TR3                    | ET-344176 | △ TR 2SD313HP F                 |
| 2-TR4                    | ET-347026 | △ TR 2SB507HP E,F               |
| 2-D1                     | ED-348990 | D SILICON H DS446               |
| 2-D2                     | ED-348990 | D SILICON H DS446               |
| 2-D3                     | ED-348990 | D SILICON H DS446               |
| 2-D4                     | ED-348990 | D SILICON H DS446               |
| 2-D5                     | ED-328486 | △ D ZENER H HZ15 3              |
| 2-D6                     | ED-328486 | △ D ZENER H HZ15 3              |
| 2-D7                     | ED-200749 | △ D SILICON DBA-60-K15 400/6.0A |
| 2-SW1                    | ES-358555 | SW PUSH ESB-62672 2-02-02S      |
| 2-SW2                    | ES-358556 | SW PUSH ESB-621519 2 THROW      |
| 2-RL1                    | EQ-337159 | △ RELAY POW G4Z-2282P 2NO 24V   |
| 2-L1                     | EO-337880 | COIL FIX 2 202AK-018 2R2K       |
| 2-FR1                    | ER-318248 | △ R FUSE ERD2FC S10 1/4W 47R0G  |
| 2-FR2                    | ER-318248 | △ R FUSE ERD2FC S10 1/4W 47R0G  |
| 2-FR3                    | ER-331188 | △ R FUSE ERD2FC S10 1/4W 8R2J   |
| 2-FR4                    | ER-328278 | △ R FUSE ERD2FC 1/4W 10R0G      |
| 2-R12                    | ER-337754 | △ R OMF H S15 FS 1W 100J        |
| 2-R13                    | ER-337754 | △ R OMF H S15 FS 1W 100J        |
| 2-R21                    | ER-333618 | △ R CB H S15 FS RDS 1/2W 153J   |
| 2-R23                    | ER-322361 | △ R OMF H S20 FS 2W 102J        |
| 2-R25                    | ER-355148 | △ R OMF H S15 FS 2W 331J        |
| 2-R26                    | ER-328069 | △ R CB H S10 FS RDS 1/4W 2R7J   |
| 2-R29                    | ER-333352 | △ R CB H S10 FS RDS 1/4W 6R8J   |
| 2-C4                     | EC-324074 | C EC V CUT SM101M 63.0DC        |
| 2-C5                     | EC-324074 | C EC V CUT SM 101M 63.0DC       |
| 2-C9                     | EC-325320 | C EC V F05 NP AWA 2R2M 50DC     |
| 2-C10                    | EC-325320 | C EC V F05 NP AWA 2R2M 50DC     |
| 2-C14                    | EC-311689 | C EC V CUT NP 04D 331M 6.3DC    |
| 2-C20                    | EC-360273 | C EC V CUT SM 682M 71.0DC       |
| 2-C23                    | EC-360273 | C EC V CUT SM 682M 71.0DC       |
| 2-C24                    | EC-326583 | C MMY V CUT CF921 473K 400DC    |
| <b>ASSEMBLY BLOCK</b>    |           |                                 |
| 2-IC2                    | EI-351507 | △ IC STK1070A                   |
| 2-F3                     | EF-345658 | △ FUSE TSC 125V 8.00A           |
| 2-F4                     | EF-345658 | △ FUSE TSC 125V 8.00A           |

## 3. CONTROL PC BOARD

| REF. NO. | PART NO.  | DESCRIPTION                   |
|----------|-----------|-------------------------------|
| 3-IC1    | EI-358562 | IC LB1416                     |
| 3-IC2    | EI-337228 | IC M5218L0                    |
| 3-TR1    | ET-355216 | TR 2SA1317 T,U                |
| 3-TR2    | ET-360067 | TR 2SC3330 T,U                |
| 3-D1     | ED-356424 | D LED BG5525S GREEN           |
| 3-D2     | ED-356424 | D LED BG5525S GREEN           |
| 3-D3     | ED-356424 | D LED BG5525S GREEN           |
| 3-D4     | ED-356421 | D LED BR5505S RED             |
| 3-D5     | ED-356421 | D LED BR5505S RED             |
| 3-D6     | ED-356424 | D LED BG5525S GREEN           |
| 3-D7     | ED-356424 | D LED BG5525S GREEN           |
| 3-D8     | ED-356424 | D LED BG5525S GREEN           |
| 3-D9     | ED-356424 | D LED BG5525S GREEN           |
| 3-D10    | ED-355605 | D LED AY5525S AMBER           |
| 3-D11    | ED-355605 | D LED AY5525S AMBER           |
| 3-D12    | ED-356421 | D LED BR5505S RED             |
| 3-D13    | ED-346618 | D ZENER H HZ15 1              |
| 3-D14    | ED-348205 | D SILICON V MC931 DOUBLE      |
| 3-VR1    | EV-358539 | VR SLIDE 25P1SVOF W105        |
| 3-VR2    | EV-358563 | VR SLIDE 60P2SVOM B254        |
| 3-VR3    | EV-358541 | VR SLIDE 25P2SV C104          |
| 3-VR4    | EV-358541 | VR SLIDE 25P2SV C104          |
| 3-R8     | ER-333680 | △ R CB H S15 FS RDS 1/2W 560J |
| 3-R14    | ER-663502 | R CB H RD 1/2W 222J           |
| 3-R29    | ER-333680 | △ R CB H S15 FS RDS 1/2W 560J |

## 4. FUNCTION PC BOARD

| REF. NO. | PART NO.  | DESCRIPTION               |
|----------|-----------|---------------------------|
| 4-SW1    | ES-358564 | SW PUSH ESB-62969 6 THROW |
| 4-R1     | ER-321153 | △ R OMF H S15 FS 1W 102J  |
| 4-R2     | ER-321153 | △ R OMF H S15 FS 1W 102J  |
| 4-R3     | ER-321153 | △ R OMF H S15 FS 1W 102J  |
| 4-R4     | ER-321153 | △ R OMF H S15 FS 1W 102J  |
| 4-R5     | ER-321153 | △ R OMF H S15 FS 1W 102J  |
| 4-R6     | ER-321153 | △ R OMF H S15 FS 1W 102J  |

## 5. EQUALIZER PC BOARD

| REF. NO. | PART NO.  | DESCRIPTION                   |
|----------|-----------|-------------------------------|
| 5-IC1    | EI-344764 | IC M5218P-21                  |
| 5-R9     | ER-324935 | △ R CB H S15 FS RDS 1/2W 181J |
| 5-P1     | EJ-336904 | PIN J AJC-036-ACB P 6P        |

## 6. VIDEO PC BOARD

| REF. NO. | PART NO.  | DESCRIPTION                   |
|----------|-----------|-------------------------------|
| 6-IC1    | EI-353852 | IC LA7016                     |
| 6-TR1    | ET-308141 | TR 2SC2603 G                  |
| 6-TR2    | ET-308141 | TR 2SC2603 G                  |
| 6-TR3    | ET-308141 | TR 2SC2603 G                  |
| 6-TR4    | ET-308141 | TR 2SC2603 G                  |
| 6-D1     | ED-301911 | D SILICON H DS448             |
| 6-R7     | ER-322591 | △ R CB H S10 FS RDS 1/4W 101J |
| 6-R8     | ER-322591 | △ R CB H S10 FS RDS 1/4W 101J |
| 6-J1     | EJ-358561 | PIN J LAP0020-0015R 10P       |

## 7. PIN JACK PC BOARD

| REF. NO. | PART NO.  | DESCRIPTION           |
|----------|-----------|-----------------------|
| 7-IC1    | EI-349719 | IC M5218P             |
| 7-P1     | EJ-343365 | PIN J YMC21-0063 P 4P |
| 7-P2     | EJ-343365 | PIN J YMC21-0063 P 4P |

---

## 8. SPEAKER PC BOARD

| REF.<br>NO. | PART NO. | DESCRIPTION |
|-------------|----------|-------------|
|-------------|----------|-------------|

|       |           |                              |
|-------|-----------|------------------------------|
| 8-TM1 | EJ-349401 | TERMINAL LEVER YKD21-0027 8P |
|-------|-----------|------------------------------|

## 9. HEAD PHONE PC BOARD

| REF.<br>NO. | PART NO. | DESCRIPTION |
|-------------|----------|-------------|
|-------------|----------|-------------|

|      |           |                           |
|------|-----------|---------------------------|
| 9-J1 | EJ-358535 | PHONE J 3P M1669-ACCB 6.3 |
|------|-----------|---------------------------|

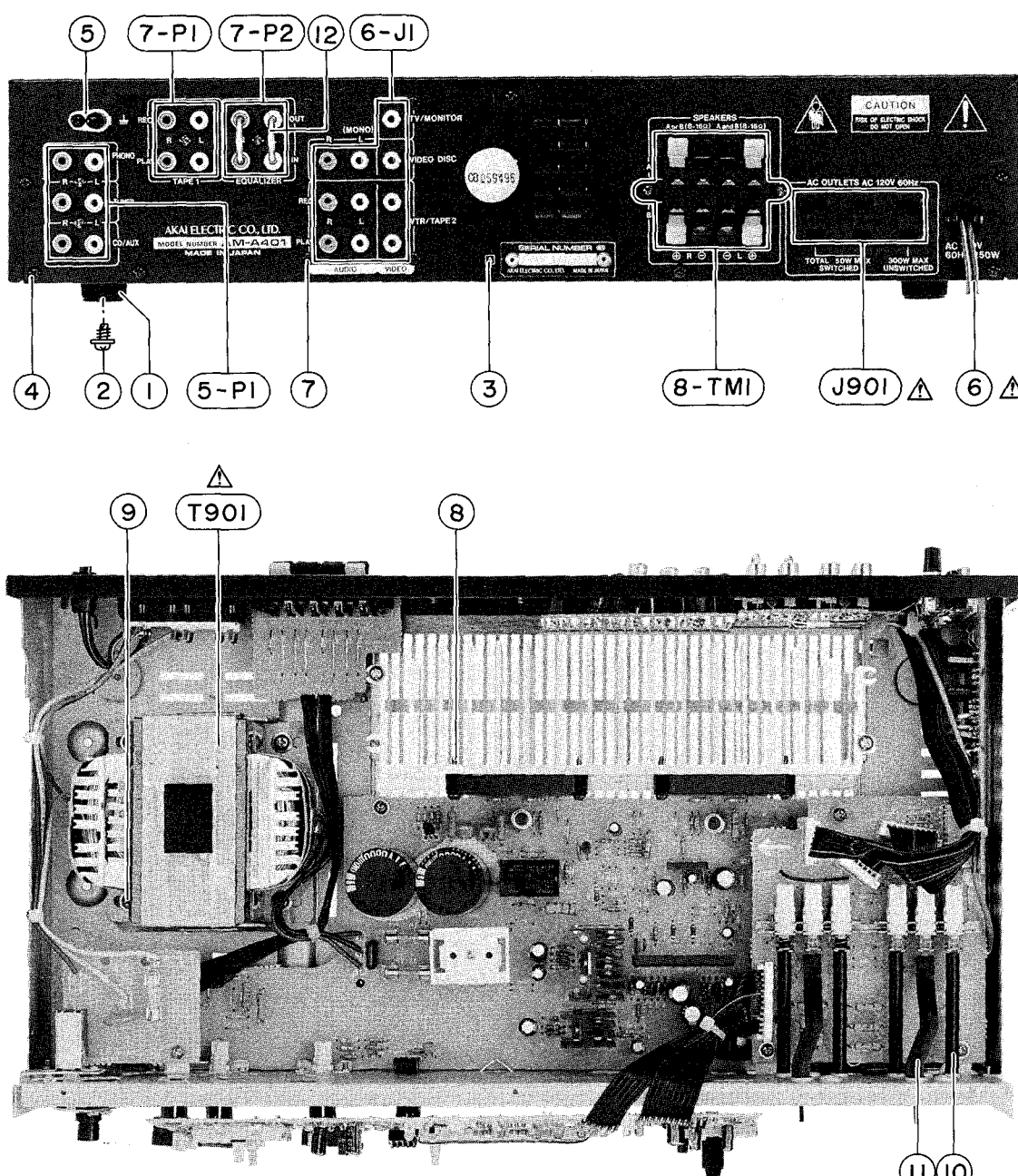
## 10. POWER SUPPLY PC BOARD

| REF.<br>NO. | PART NO. | DESCRIPTION |
|-------------|----------|-------------|
|-------------|----------|-------------|

|        |           |                              |
|--------|-----------|------------------------------|
|        |           | <b>POWER SUPPLY PC BOARD</b> |
| 10-SW1 | ES-337902 | △ SW PUSH SDLD1P002 01-1     |
| 10-C1  | EC-338411 | △ C CE V FZ 103P 400AC       |
|        |           | <b>ASSEMBLY BLOCK</b>        |
| 10-F1  | EF-346139 | △ FUSE TSC 125V 5.00A        |



# ASSEMBLY BLOCK



## 11. ASSEMBLY BLOCK

REF. NO. PART NO. DESCRIPTION

### ASSEMBLY BLOCK

|       |            |                                              |
|-------|------------|----------------------------------------------|
| 11-1  | SA-332850  | ROUND FOOT                                   |
| 11-2  | ZS-331567  | T2BR30x08STL CMT C080 [FOOT FIX]             |
| 11-3  | SP358485P  | PANEL REAR AM-A401(A)                        |
| 11-4  | ZS-308846  | T2BR30x08STL BZN PROJECTION [PANEL REAR FIX] |
| 11-5  | EJ-329610  | TERMINAL W/SCREW UB-0067 L 1P                |
| 11-6  | EW-358515  | ⚠ AC CORD 2 CORES KP-8W, SPT-1-CB UC         |
| 11-7  | ZW-698308  | RV NYL30x055 BL                              |
| 11-8  | ZS-321279  | T2BR30x18STL CMT [IC FIX]                    |
| 11-9  | ZS-346742  | ST BID 40x08STL CMT CUP [POWER TRANS FIX]    |
| 11-10 | TA-358475  | JOINT (A)                                    |
| 11-11 | TA-358473A | JOINT (B)-1                                  |

REF. NO. PART NO DESCRIPTION

|         |           |                             |
|---------|-----------|-----------------------------|
| 11-12   | EJ-348218 | PLUG SHORT PIN P2138        |
| 11-T901 | BT-360272 | ⚠ TRANS POWER AM-A401-20(A) |
| 11-J901 | EJ-352642 | ⚠ SOCKET OUTLET S2T733T114T |

### EQUALIZER PC BOARD

|      |           |                        |
|------|-----------|------------------------|
| 5-P1 | EJ-336904 | PIN J AJC-036-ACB P 6P |
|------|-----------|------------------------|

### VIDEO PC BOARD

|      |           |                         |
|------|-----------|-------------------------|
| 6-J1 | EJ-358561 | PIN J LAP0020-0015R 10P |
|------|-----------|-------------------------|

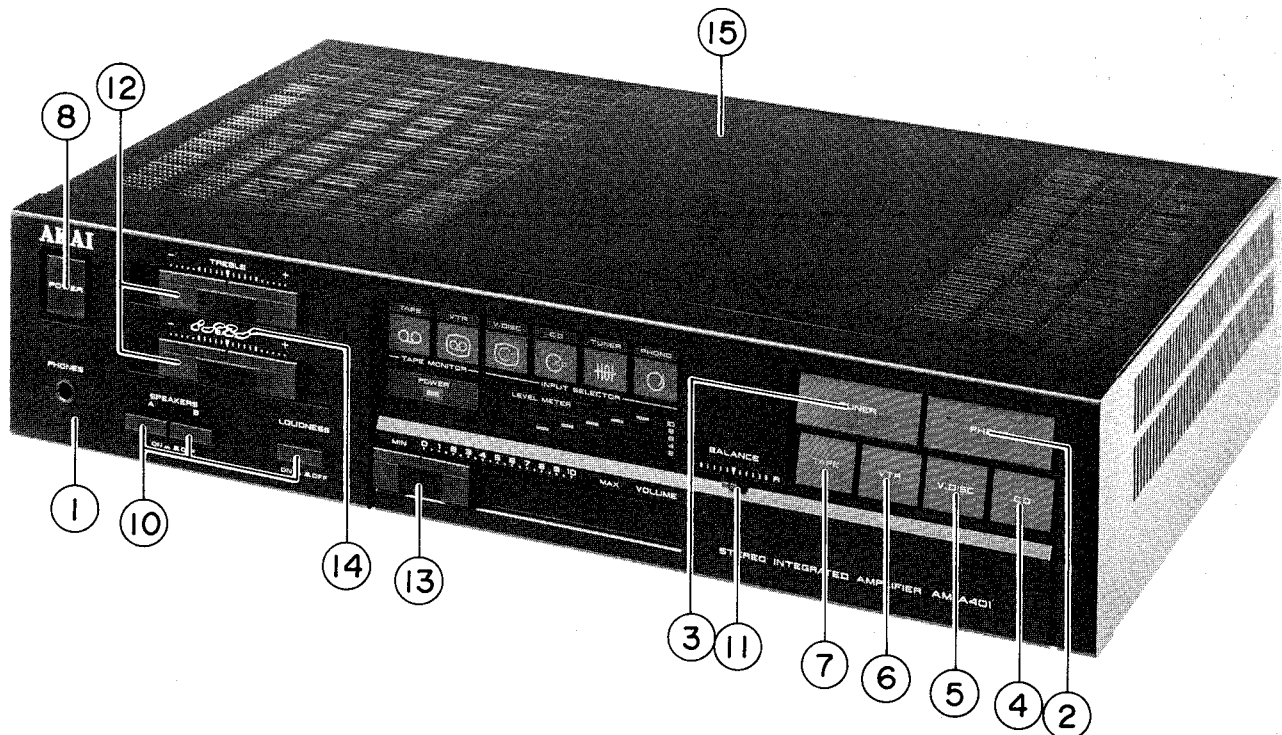
### PIN JACK PC BOARD

|      |           |                       |
|------|-----------|-----------------------|
| 7-P1 | EJ-343365 | PIN J YMC21-0063 P 4P |
| 7-P2 | EJ-343365 | PIN J YMC21-0063 P 4P |

### SPEKAER PC BORAD

|       |           |                              |
|-------|-----------|------------------------------|
| 8-TM1 | EJ-349401 | TERMINAL LEVER YKD21-0027 8P |
|-------|-----------|------------------------------|

# FINAL ASSEMBLY BLOCK



## 12. FINAL ASSEMBLY BLOCK

| REF. NO.                    | PART NO.      | DESCRIPTION                                 |
|-----------------------------|---------------|---------------------------------------------|
| <b>PANEL FRONT BLOCK</b>    |               |                                             |
| 12-1                        | BD-A2039A050C | PANEL FRONT BLK AM-A401                     |
| 12-1B                       | BD-A2039A050D | PANEL FRONT BLK AM-A401-B                   |
| 12-2                        | SK-358482E    | KNOB (A) PHONO                              |
| 12-2B                       | SK-358482A    | KNOB (A)-B PHONO                            |
| 12-3                        | SK-358482F    | KNOB (A) TUNER                              |
| 12-3B                       | SK-358482B    | KNOB (A)-B TUNER                            |
| 12-4                        | SK-358483E    | KNOB (B) CD/AUX                             |
| 12-4B                       | SK-358483A    | KNOB (B)-B CD/AUX                           |
| 12-5                        | SK-358483F    | KNOB (B) V. DISC                            |
| 12-5B                       | SK-358483B    | KNOB (B)-B V. DISC                          |
| 12-6                        | SK-358483G    | KNOB (B) VTR/TAPE2                          |
| 12-6B                       | SK-358483C    | KNOB (B)-B VTR/TAPE2                        |
| 12-7                        | SK-358483H    | KNOB (B) TAPE1                              |
| 12-7B                       | SK-358483D    | KNOB (B)-B TAPE1                            |
| 12-8                        | SK-343017C    | KNOB POWER (2)                              |
| 12-8B                       | SK-343017F    | KNOB POWER-B                                |
| <b>FINAL ASSEMBLY BLOCK</b> |               |                                             |
| 12-9x                       | ZS-498273     | T2BR30x08STL CMT PW080<br>[PANEL FRONT FIX] |
| 12-10                       | SK-358479B    | KNOB (F-2)                                  |
| 12-10B                      | SK-358479A    | KNOB (F-1)                                  |
| 12-11                       | SK-358477B    | KNOB (C-2)                                  |
| 12-11B                      | SK-358477A    | KNOB (C-1)                                  |
| 12-12                       | SK-358480B    | KNOB (E-2)                                  |
| 12-12B                      | SK-358480A    | KNOB (E-1)                                  |
| 12-13                       | SK-358474B    | KNOB (D-2)                                  |
| 12-13B                      | SK-358474A    | KNOB (D-1)                                  |
| 12-14                       | ZG-360943     | SP TONE                                     |
| 12-15                       | SP-349925A    | COVER UPPER                                 |
| 12-15B                      | SP-349925C    | COVER UPPER-B                               |

### NOTE:

PANEL FRONT BLK consists of 12-2 to 12-8B.

### SYMBOL FOR COLOR VARIATION

NON : STANDARD COLOR

B or BL : BLACK

# INDEX

| PART NO.      | REF. NO. | PART NO.   | REF. NO. | PART NO. | REF. NO. | PART NO. | REF. NO. | PART NO. | REF. NO. |
|---------------|----------|------------|----------|----------|----------|----------|----------|----------|----------|
| BA-A2039A020E | 1-1      | ER-355148  | 2-R25    |          |          |          |          |          |          |
| BA-A2039A030B | 1-2      | ER-663502  | 3-R14    |          |          |          |          |          |          |
| BD-A2039A050C | 12-1     | ES-337902  | 10-SW1   |          |          |          |          |          |          |
| BD-A2039A050D | 12-1B    | ES-358555  | 2-SW1    |          |          |          |          |          |          |
| BT-360272     | 11-T901  | ES-358556  | 2-SW2    |          |          |          |          |          |          |
| EC-311689     | 2-C14    | ES-358564  | 4-SW1    |          |          |          |          |          |          |
| EC-324074     | 2-C5     | ET-305463  | 2-TR2    |          |          |          |          |          |          |
| EC-324074     | 2-C4     | ET-307195  | 2-TR1    |          |          |          |          |          |          |
| EC-325320     | 2-C9     | ET-308141  | 6-TR1    |          |          |          |          |          |          |
| EC-325320     | 2-C10    | ET-308141  | 6-TR2    |          |          |          |          |          |          |
| EC-326583     | 2-C24    | ET-308141  | 6-TR3    |          |          |          |          |          |          |
| EC-338411     | 10-C1    | ET-308141  | 6-TR4    |          |          |          |          |          |          |
| EC-360273     | 2-C20    | ET-344176  | 2-TR3    |          |          |          |          |          |          |
| EC-360273     | 2-C23    | ET-347026  | 2-TR4    |          |          |          |          |          |          |
| ED-200749     | 2-D7     | ET-355216  | 3-TR1    |          |          |          |          |          |          |
| ED-301911     | 6-D1     | ET-360067  | 3-TR2    |          |          |          |          |          |          |
| ED-328486     | 2-D5     | EV-358539  | 3-VR1    |          |          |          |          |          |          |
| ED-328486     | 2-D6     | EV-358541  | 3-VR4    |          |          |          |          |          |          |
| ED-346618     | 3-D13    | EV-358541  | 3-VR3    |          |          |          |          |          |          |
| ED-348205     | 3-D14    | EV-358563  | 3-VR2    |          |          |          |          |          |          |
| ED-348990     | 2-D1     | EW-358515  | 11-6     |          |          |          |          |          |          |
| ED-348990     | 2-D2     | SA-332850  | 11-1     |          |          |          |          |          |          |
| ED-348990     | 2-D4     | SK-343017C | 12-8     |          |          |          |          |          |          |
| ED-348990     | 2-D3     | SK-343017F | 12-8B    |          |          |          |          |          |          |
| ED-355605     | 3-D11    | SK-358474A | 12-13B   |          |          |          |          |          |          |
| ED-355605     | 3-D10    | SK-358474B | 12-13    |          |          |          |          |          |          |
| ED-356421     | 3-D4     | SK-358477A | 12-11B   |          |          |          |          |          |          |
| ED-356421     | 3-D5     | SK-358477B | 12-11    |          |          |          |          |          |          |
| ED-356421     | 3-D12    | SK-358479A | 12-10B   |          |          |          |          |          |          |
| ED-356424     | 3-D1     | SK-358479B | 12-10    |          |          |          |          |          |          |
| ED-356424     | 3-D3     | SK-358480A | 12-12B   |          |          |          |          |          |          |
| ED-356424     | 3-D2     | SK-358480B | 12-12    |          |          |          |          |          |          |
| ED-356424     | 3-D6     | SK-358482A | 12-2B    |          |          |          |          |          |          |
| ED-356424     | 3-D7     | SK-358482B | 12-3B    |          |          |          |          |          |          |
| ED-356424     | 3-D8     | SK-358482E | 12-2     |          |          |          |          |          |          |
| ED-356424     | 3-D9     | KS-358482F | 12-3     |          |          |          |          |          |          |
| EF-345658     | 2-F3     | SK-358483A | 12-4B    |          |          |          |          |          |          |
| EF-345658     | 2-F4     | SK-358483B | 12-5B    |          |          |          |          |          |          |
| EF-346139     | 10-F1    | SK-358483C | 12-6B    |          |          |          |          |          |          |
| EI-337228     | 2-IC3    | SK-358483D | 12-7B    |          |          |          |          |          |          |
| EI-337228     | 3-IC2    | SK-358483E | 12-4     |          |          |          |          |          |          |
| EI-344764     | 5-IC1    | SK-358483F | 12-5     |          |          |          |          |          |          |
| EI-349719     | 7-IC1    | SK-358483G | 12-6     |          |          |          |          |          |          |
| EI-351507     | 2-IC2    | SK-358483H | 12-7     |          |          |          |          |          |          |
| EI-353852     | 6-IC1    | SP-349925A | 12-15    |          |          |          |          |          |          |
| EI-354080     | 2-IC4    | SP-349925C | 12-15B   |          |          |          |          |          |          |
| EI-358562     | 3-IC1    | SP-358485P | 11-3     |          |          |          |          |          |          |
| EI-359415     | 2-IC1    | TA-358473A | 11-11    |          |          |          |          |          |          |
| EJ-329610     | 11-5     | TA-358475  | 11-10    |          |          |          |          |          |          |
| EJ-336904     | 5-P1     | ZG-360943  | 12-14    |          |          |          |          |          |          |
| EJ-343365     | 7-P1     | ZS-308846  | 11-4     |          |          |          |          |          |          |
| EJ-343365     | 7-P2     | ZS-321279  | 11-8     |          |          |          |          |          |          |
| EJ-348218     | 11-12    | ZS-331567  | 11-2     |          |          |          |          |          |          |
| EJ-349401     | 8-TM1    | ZS-346742  | 11-9     |          |          |          |          |          |          |
| EJ-352642     | 11-J901  | ZS-498273  | 12-9x    |          |          |          |          |          |          |
| EJ-358535     | 9-J1     | ZW-698308  | 11-7     |          |          |          |          |          |          |
| EJ-358561     | 6-J1     |            |          |          |          |          |          |          |          |
| EO-337880     | 2-L1     |            |          |          |          |          |          |          |          |
| EQ-337159     | 2-RL1    |            |          |          |          |          |          |          |          |
| ER-318248     | 2-FR1    |            |          |          |          |          |          |          |          |
| ER-318248     | 2-FR2    |            |          |          |          |          |          |          |          |
| ER-321153     | 4-R1     |            |          |          |          |          |          |          |          |
| ER-321153     | 4-R2     |            |          |          |          |          |          |          |          |
| ER-321153     | 4-R3     |            |          |          |          |          |          |          |          |
| ER-321153     | 4-R4     |            |          |          |          |          |          |          |          |
| RR-321153     | 4-R5     |            |          |          |          |          |          |          |          |
| ER-321153     | 4-R6     |            |          |          |          |          |          |          |          |
| ER-322361     | 2-R23    |            |          |          |          |          |          |          |          |
| ER-322591     | 6-R7     |            |          |          |          |          |          |          |          |
| ER-322591     | 6-R8     |            |          |          |          |          |          |          |          |
| ER-324935     | 5-R9     |            |          |          |          |          |          |          |          |
| ER-328069     | 2-R26    |            |          |          |          |          |          |          |          |
| ER-328278     | 2-FR4    |            |          |          |          |          |          |          |          |
| ER-331188     | 2-FR3    |            |          |          |          |          |          |          |          |
| ER-333352     | 2-R29    |            |          |          |          |          |          |          |          |
| ER-333618     | 2-R21    |            |          |          |          |          |          |          |          |
| ER-333680     | 3-R8     |            |          |          |          |          |          |          |          |
| ER-333680     | 3-R29    |            |          |          |          |          |          |          |          |
| ER-337754     | 2-R12    |            |          |          |          |          |          |          |          |
| ER-337754     | 2-R13    |            |          |          |          |          |          |          |          |

# AKAI

## MODEL **AM-A401**

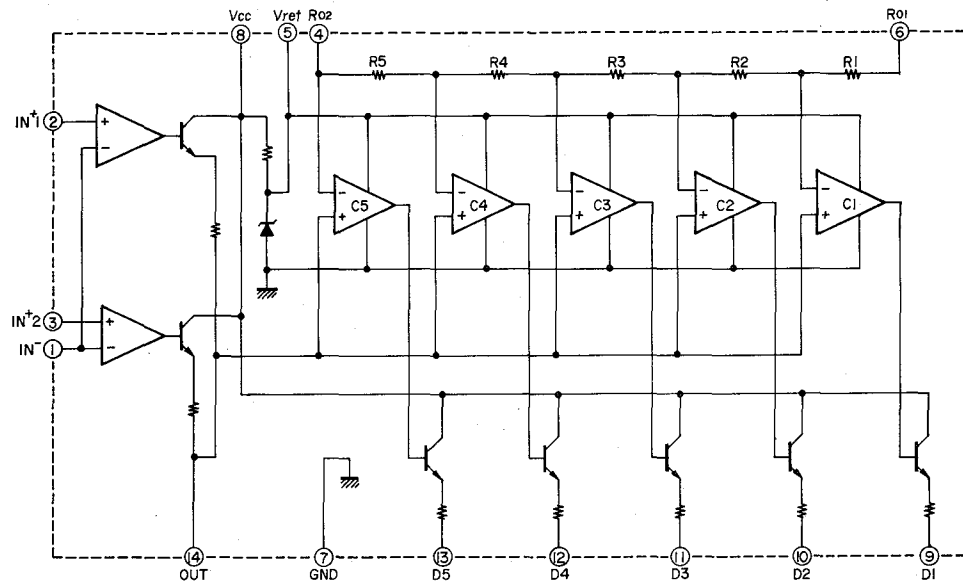
### **SCHEMATIC DIAGRAM AND PC BOARD**

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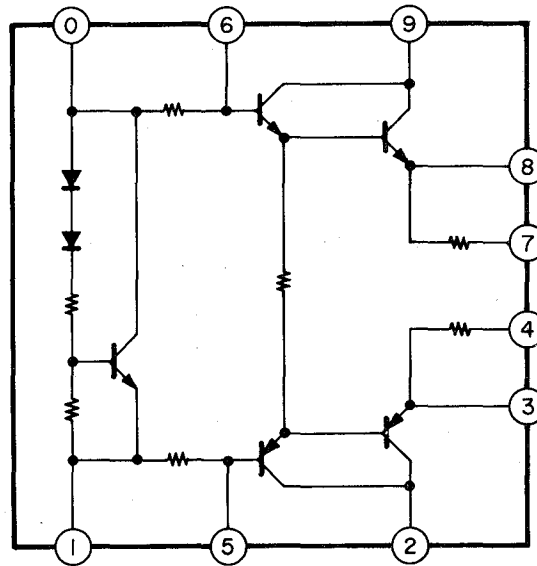
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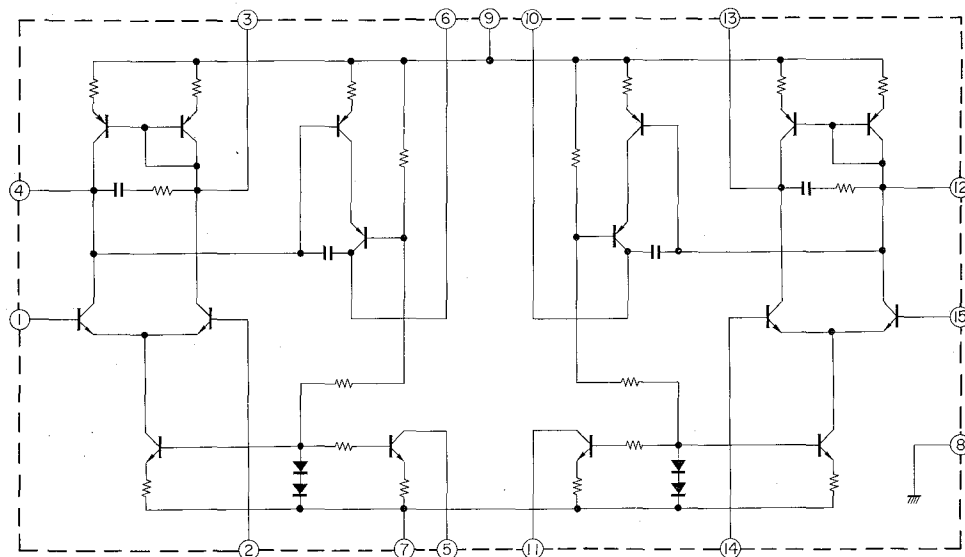
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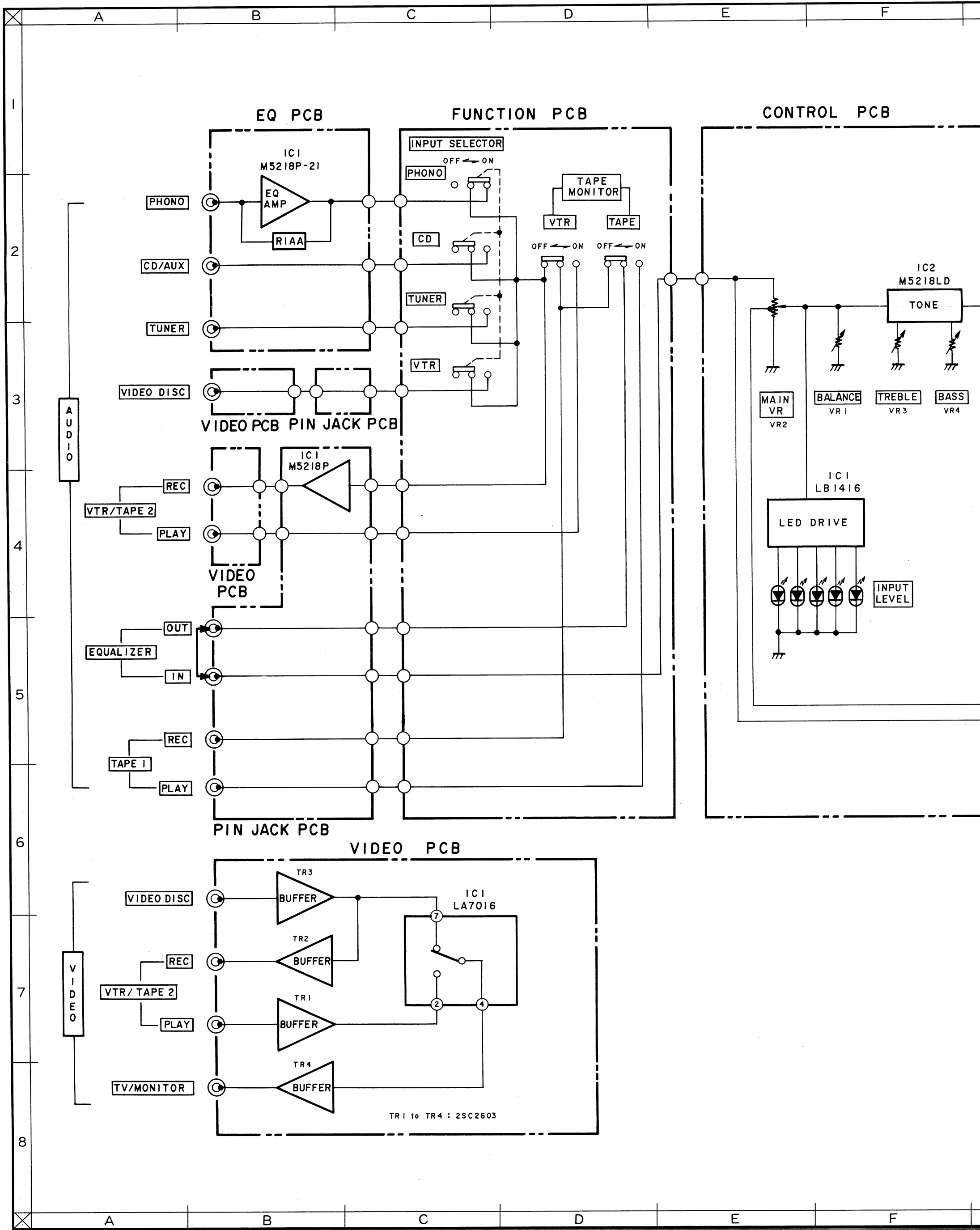


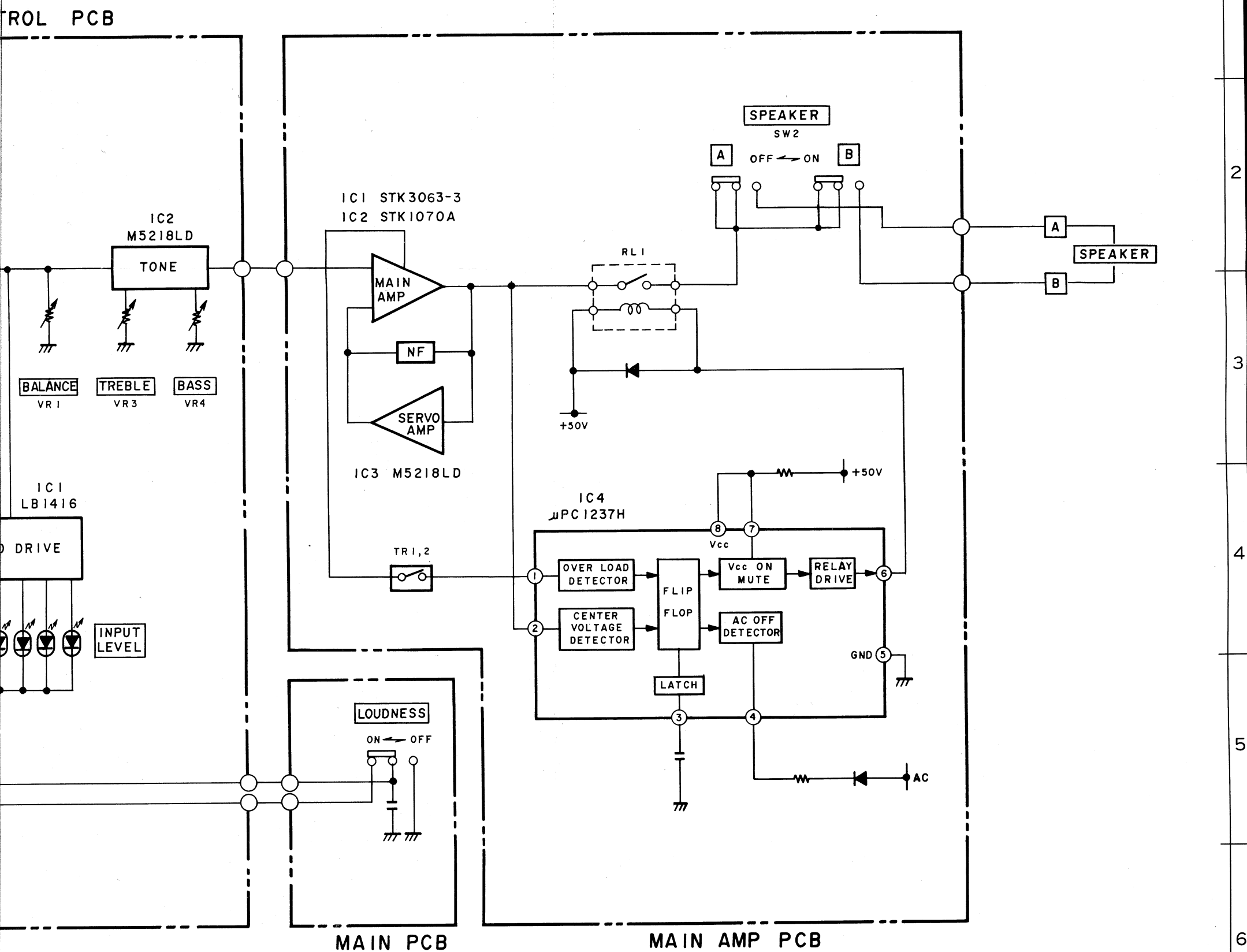
# STK1070



# STK3062



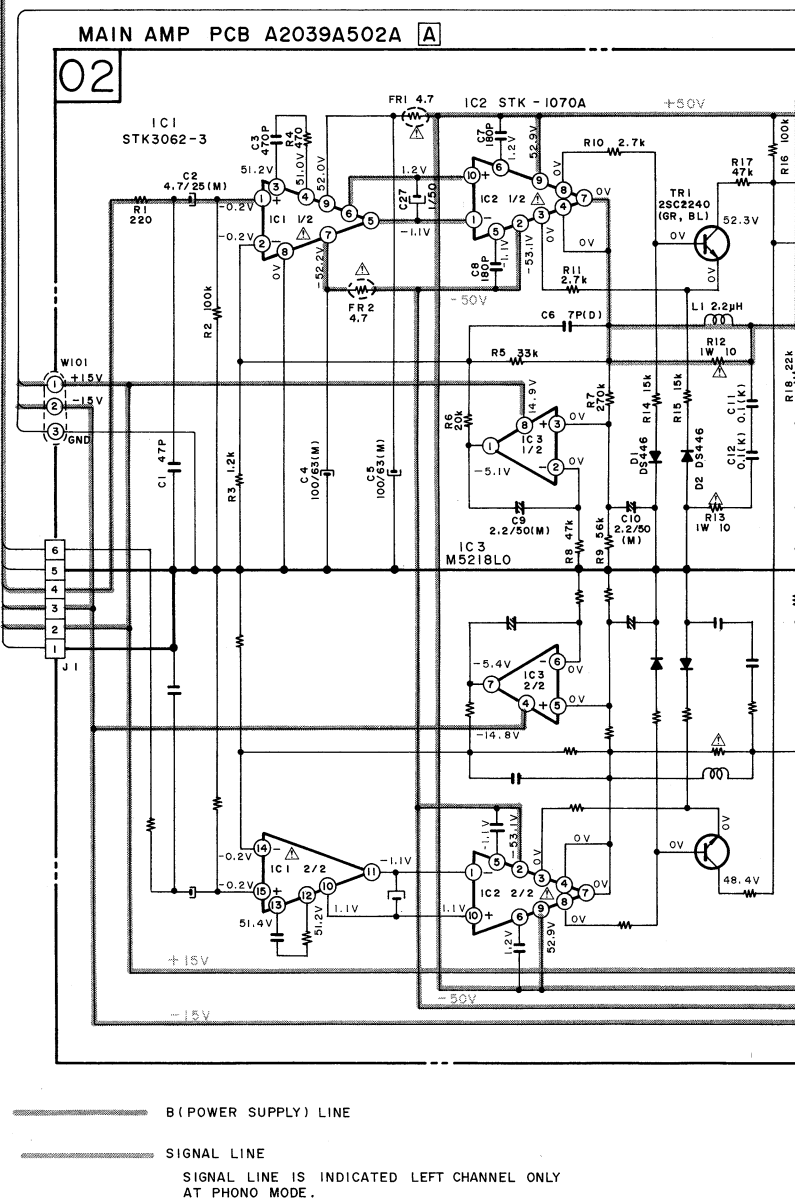
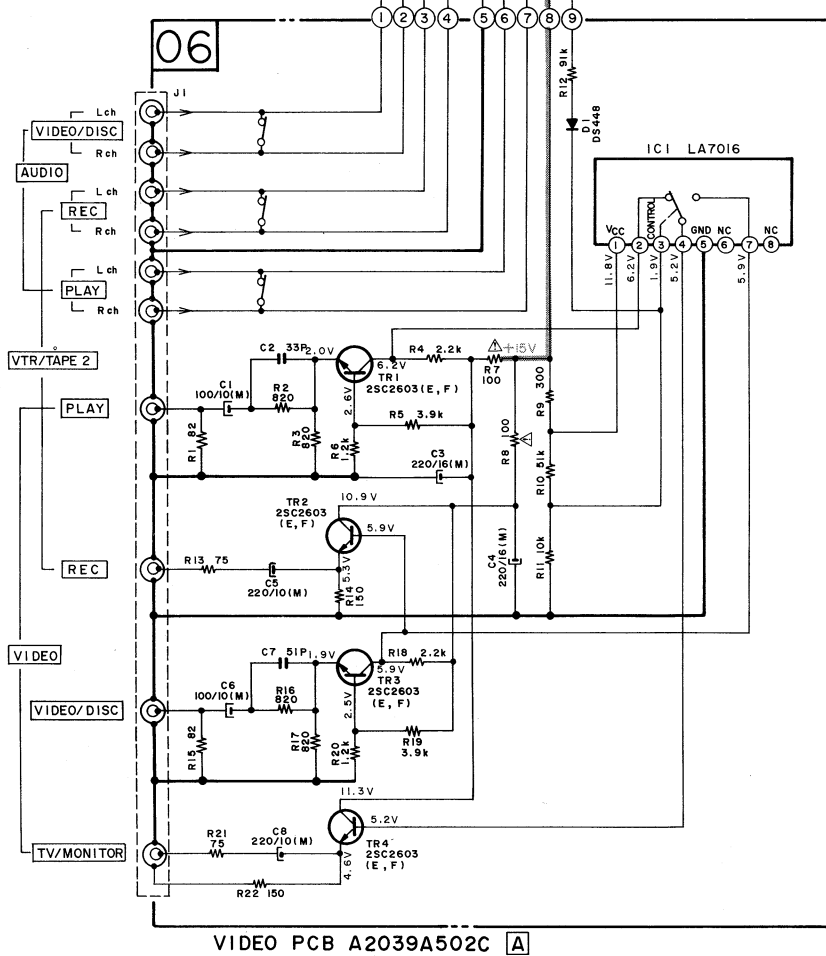
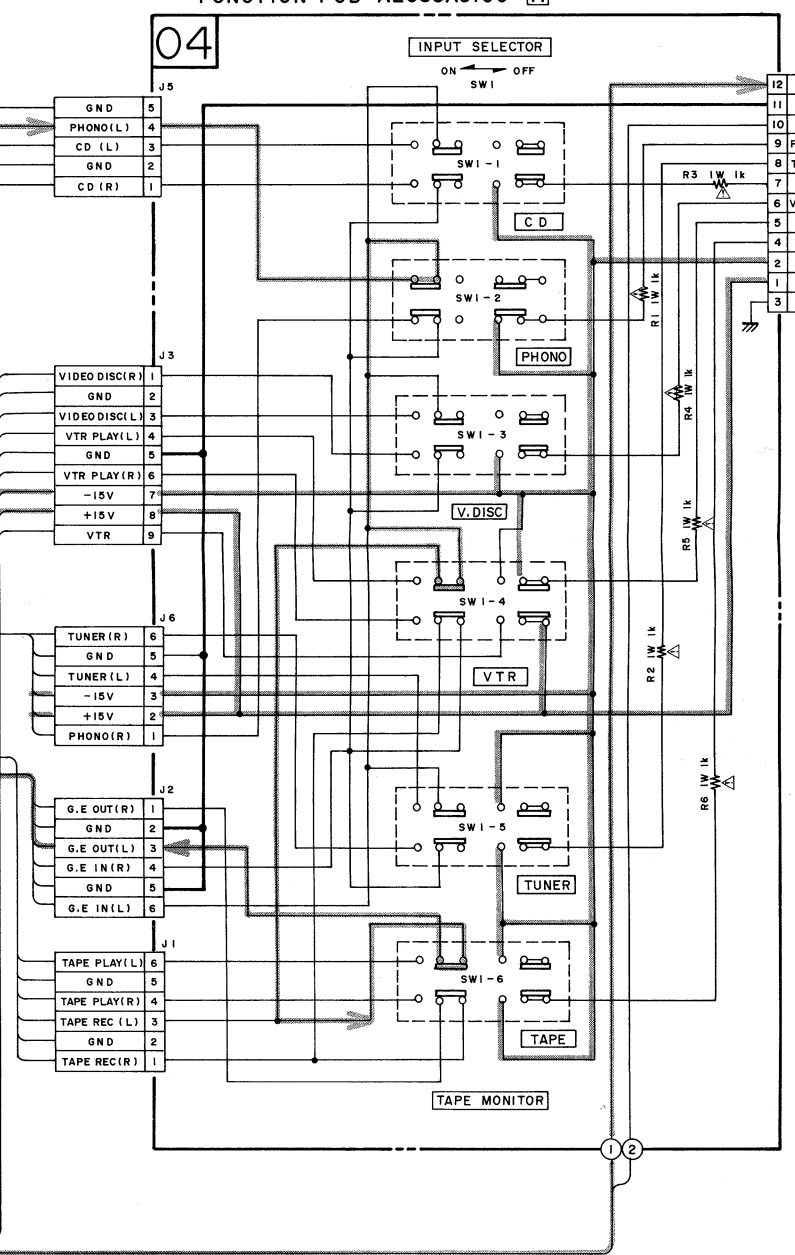




AM-A401  
BLOCK DIAGRAM  
No. 850501B (A2)

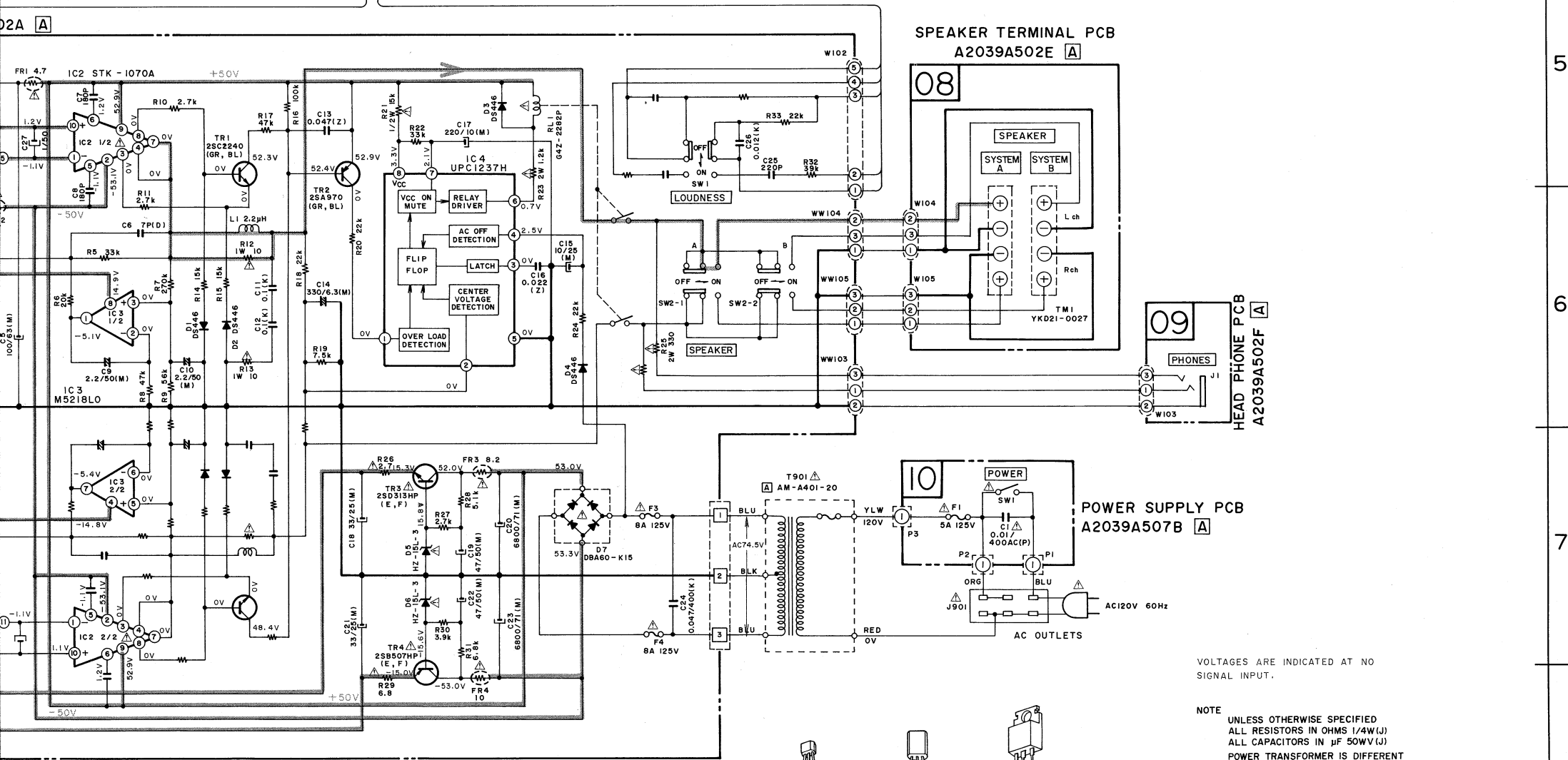
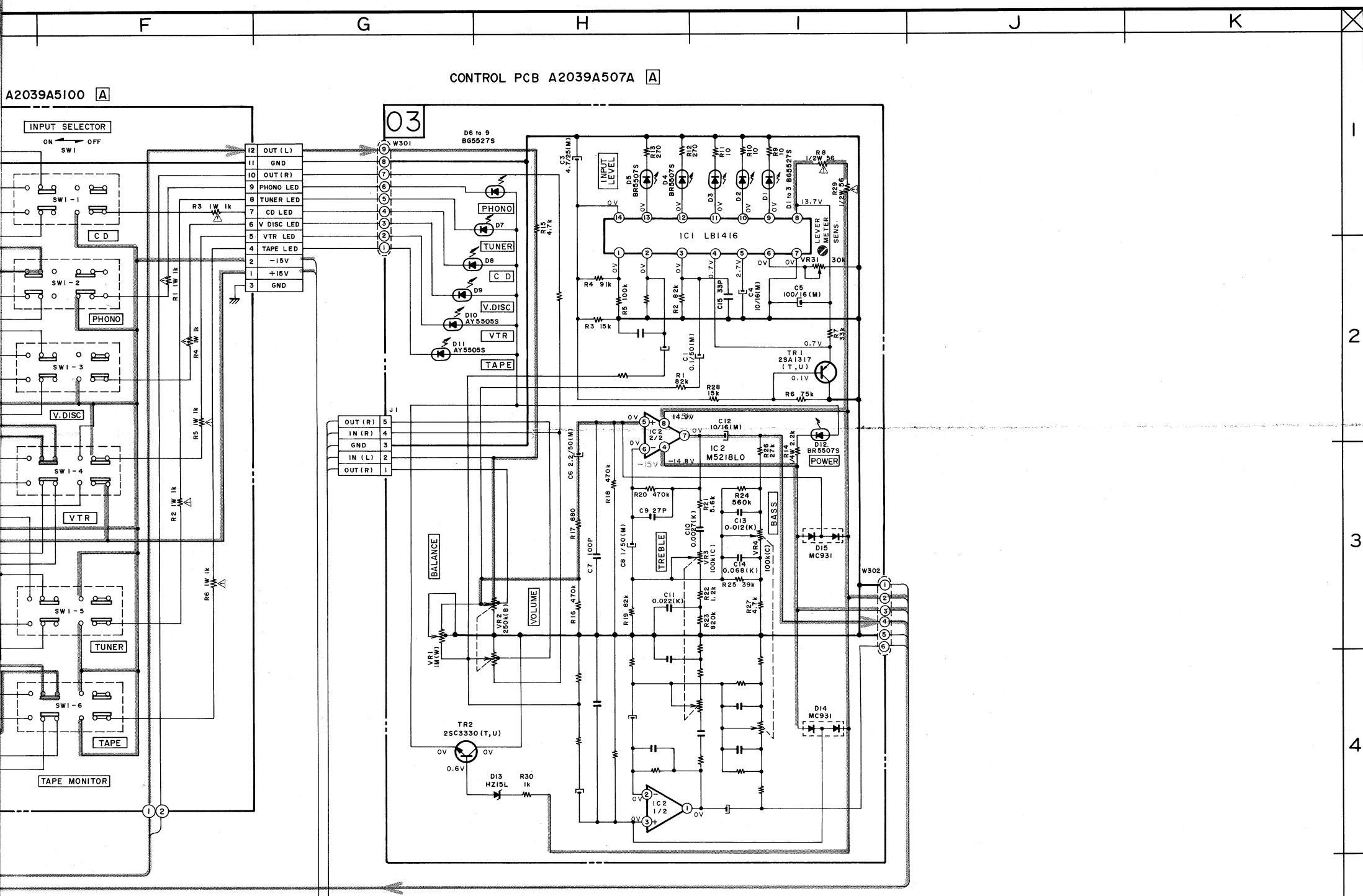
EQUALIZER PCB A2039A502B [A]

FUNCTION PCB A2039A5100 [A]



001746





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.

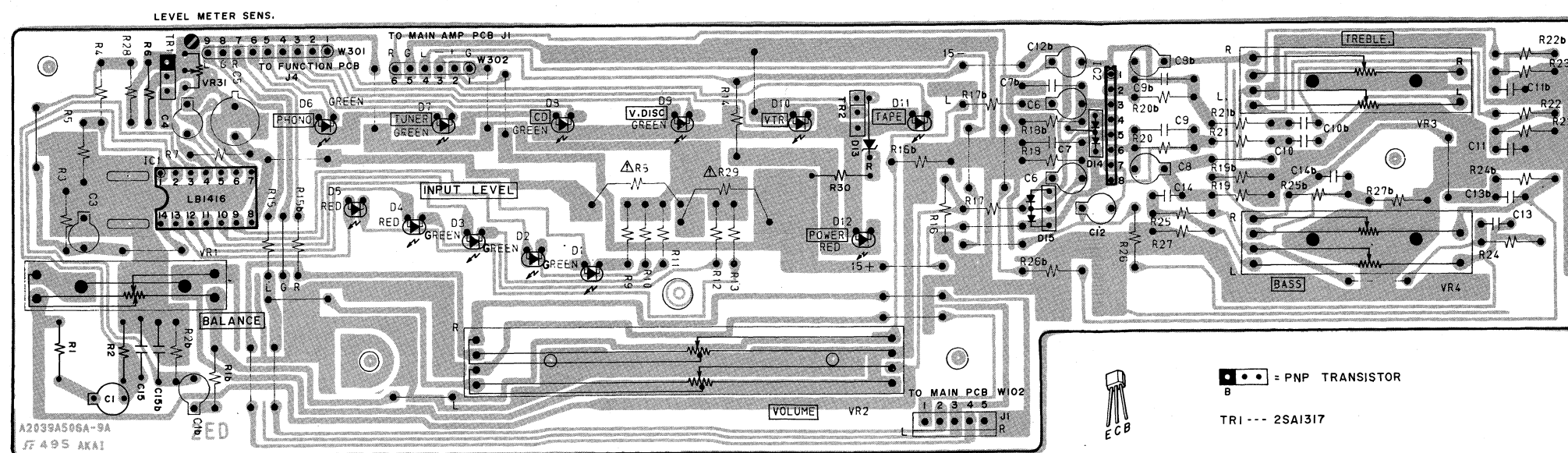
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2SC2603

2SC2240  
2SA970

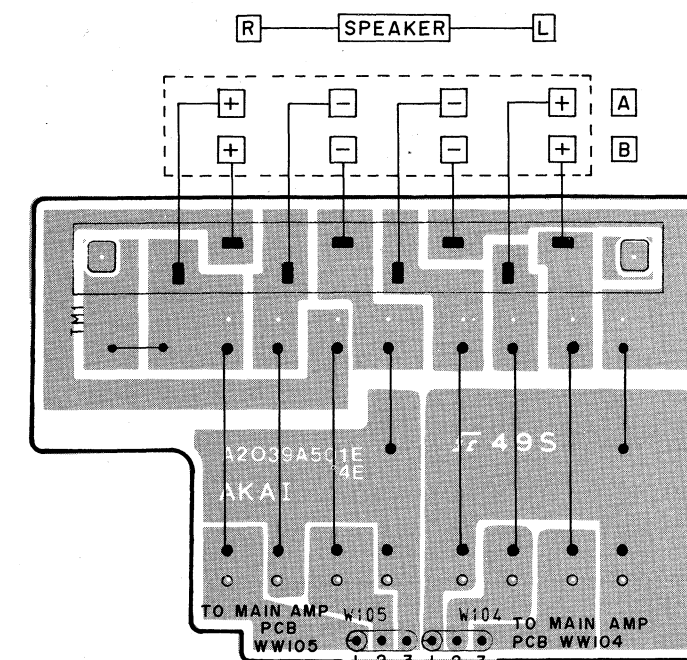
2SD507  
2SD313

AM - A401  
SCHEMATIC DIAGRAM  
No. 850502B



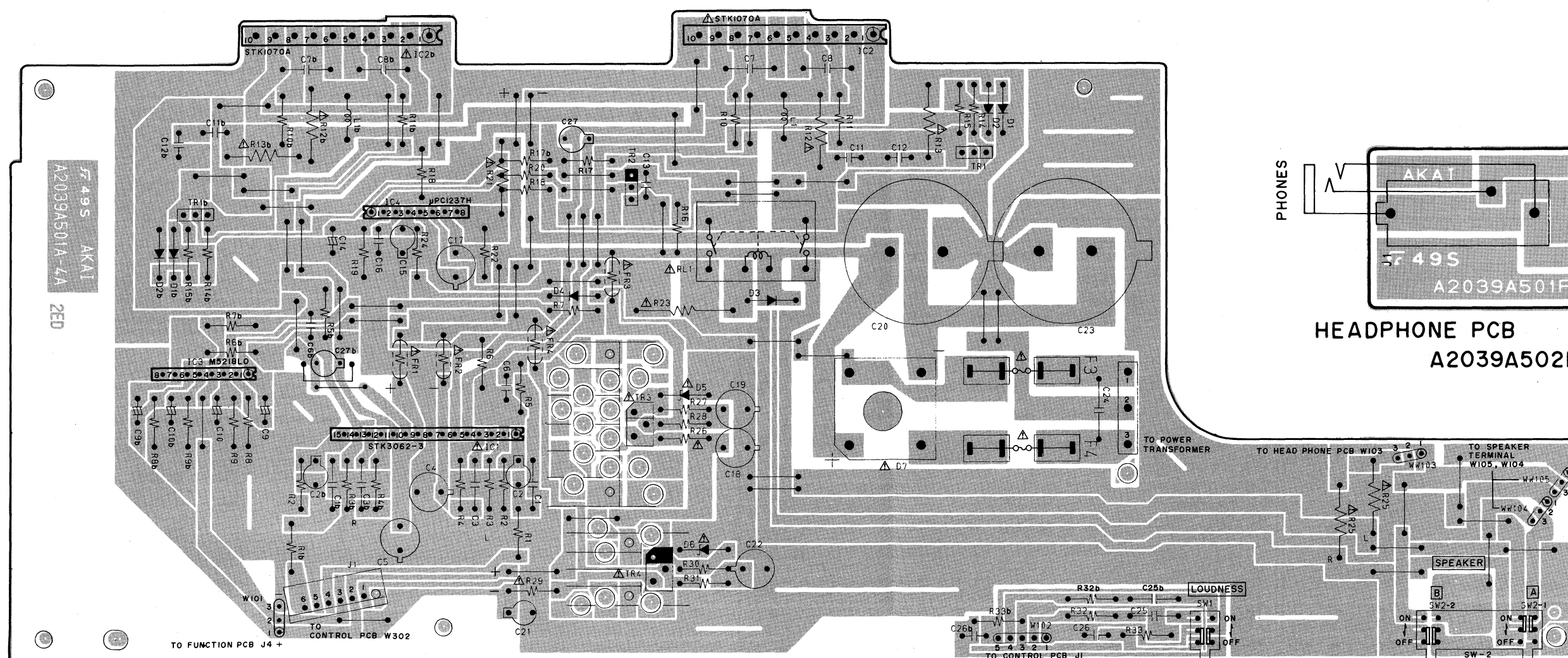


CONTROL PCB A2039A507A [A]

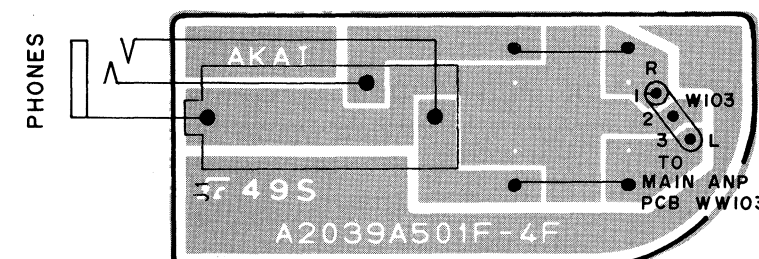


SPEAKER TERMINAL PCB

A2039A502E [A]

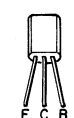
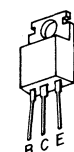


MAIN AMP PCB A2039A502A [A]



HEADPHONE PCB

A2039A502F [A]

2SC2240  
2SA9702SB507  
2SD313

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.