

# The Harman Kardon

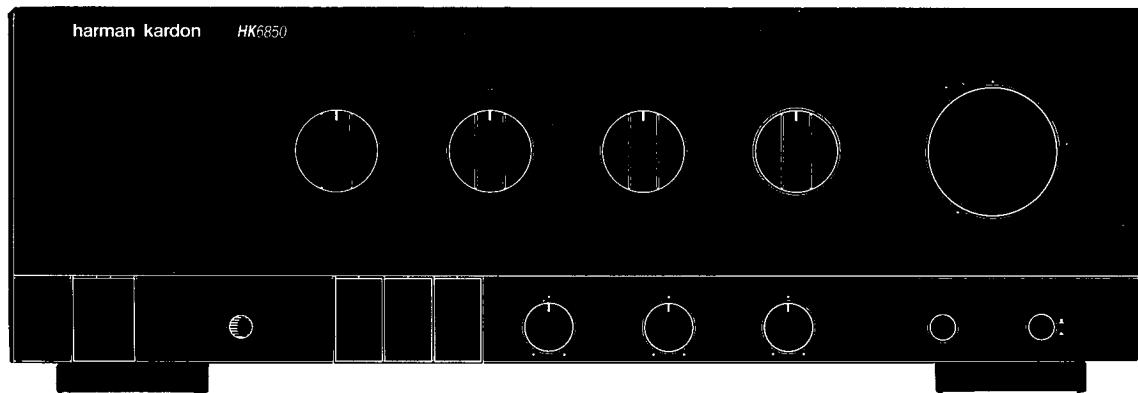
## Model HK6850

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### INTEGRATED AMPLIFIER

Manual 184A

# Technical Manual



The following marks found in the parts list of this manual identify the models as follows.

- G** : German model
- GB** : German model Black version
- IB** : International model Black version

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HK6850

**harman/kardon**

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## SPECIFICATIONS

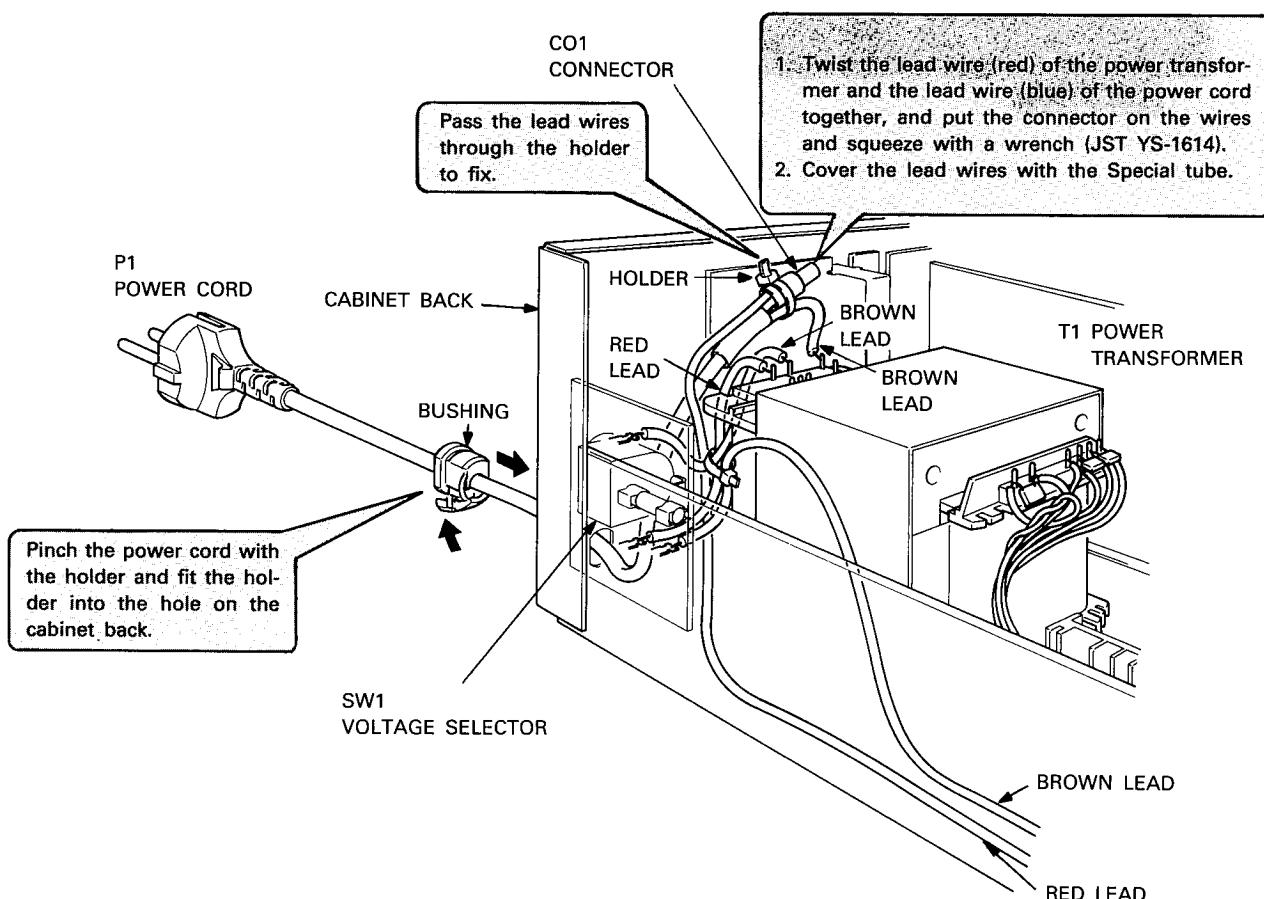
|                                   | Nominal        | Limit       | Nominal                        | Limit  |
|-----------------------------------|----------------|-------------|--------------------------------|--|
| Continuous Average Power (FTC)    |                |             | Tone Control Characteristics   |  |
| 20Hz—20kHz, both channels driven  |                |             | Bass (at 50Hz)                 |  |
| 8Ω, 0.08% RMS                     | 97W            | ≥ 85W       | Boost                          | 10dB ± 2dB   |
| 4Ω, 0.1% RMS                      | 159W           | ≥ 120W      | Cut                            | 10dB ± 2dB   |
| High instantaneous Current        |                |             | Treble (at 10kHz)              |  |
| Capability (HCC)                  | 80A            | ≥ 60A       | Boost                          | 10dB ± 2dB   |
| Half Power Bandwidth              | <10Hz~>100kHz  | <10Hz~70kHz | Cut                            | 10dB ± 2dB   |
| Frequency Response                |                |             | Filters                        |  |
| (at -3dB down)                    | <1Hz ~ >110kHz |             | Subsonic                       | 15Hz, 3dB ± 1dB/Octave                               |
| Square Wave Rise Time             | 2μsec          | ≤ 2.5 μsec  | Phase Correct Loudness at 50Hz | 6dB ± 2dB  |
| Input Sensitivity (at 85W output) |                |             | DC Output Voltage              |  |
| CD                                | 135mV          | ± 25mV      | L channel                      | 0mV ± 60mV   |
| Phono (MM)                        | 2.2mV          | ± 0.3mV     | R channel                      | 0mV ± 60mV   |
| Phono (MC)                        | 130 μV         | ± 20 μV     | RIAA Equalization at Tape Out  |  |
| Signal to Noise Ratio             |                |             | (20Hz/20kHz) (10kΩ load)       | 0.2dB ± 0.5dB  |
| CD                                | 78dB           | ≥ 70dB      | Phono Over load (No load)      |  |
| Phono (MM)                        | 77.6dB         | ≥ 75dB      | Phono (MM)                     | 168mV ≥ 120mV  |
| Phono (MC)                        | 74dB           | ≥ 67dB      | Phono (MC)                     | 8.5mV ≥ 5mV  |
| Channel Separation (at 10kHz)     |                |             | Dimensions (W x H x D)         | 17-3/8" x 6-5/16" x 15-15/16"<br>(443 x 160 x 405mm) |
| CD                                | 46dB           | ≥ 40dB      | Weight                         | 34lbs. 3oz. (15.5kg)                                 |
| Phono (MM)                        | 48.2dB         | ≥ 40dB      | Power Supply                   | AC 230/240V, 50/60Hz                                 |
| Phono (MC)                        | 49.6dB         | ≥ 40dB      | Power Consumption              | 280W   |
| IM Distortion Ratio               | 0.039%         | ≤ 0.1%      |                                |  |
| Damping Factor at 1kHz            | 100            | ≥ 70        |                                |  |

These specifications are service target specs.

Specifications and components subject to change without notice.  
Overall performance will be maintained or improved.

## POWER CORD REPLACEMENT

In order to prevent fire or shock hazard when replacing the power cord, follow the procedure below to replace the parts with the standard supply parts.



## DISASSEMBLY PROCEDURES (REFER TO PAGES 7 AND 24 )

### ① CABINET TOP (131) REMOVAL

Remove 10 screws (A) and then remove the Cabinet Top (131).

### ② FRONT PANEL ASS'Y (AA) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step ①.
2. Remove 6 screws (B) and then remove the Front Panel Ass'Y (AA).

### ③ MAIN and DRIVER P.C. BOARDS (PCB-4 to 6) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step ①.
2. Disconnect 2 connectors (CW1 and CW504) from 2 connectors (CN405 and CN401) on the Main P.C. Board (PCB-4).
3. Remove 4 screws (C), 4 screws (D) and 2 screws (E) and then remove the Main and Driver P.C. Boards (PCB-4 to 6) with the Heat Sinks (183, 184, 186, 187, 178).

### ④ PHONO P.C. BOARD (PCB-1) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step ①.
2. Pull out the Shaft (230).
3. Disconnect 2 connectors (W-806 and CW701) from 2 connectors (CN701 and CN3) on the Phono P.C. Board (PCB-1).
4. Remove 1 screw (F) and 4 screws (G), and then remove the Phono P.C. Board (PCB-1).

### ⑤ CONTROL P.C. BOARD (PCB-3) REMOVAL

1. Remove the Main and Driver P.C. Boards (PCB-4 to 6), referring to the previous step ③.
2. Remove 4 screws (H) and disconnect 2 connectors (W-805 and CW802) from 2 connectors (CN502 and CN2) on the Control P.C. Board (PCB-3). Disconnect 1 connector (W-806) from 1 connector (CN701) on the Phono P.C. Board (PCB-1). Remove the Control P.C. Board (PCB-3).

### ⑥ TONE P.C. BOARD (PCB-2) REMOVAL

1. Remove the Front Panel Ass'Y (AA), referring to the previous step ②.
2. Pull out the 6 Rotary knobs (143 and 144).
3. Remove 6 hexagon nuts (I) and remove 3 screws (J).
4. Remove 2 screws (C), 4 screws(G), 7 screws (K), 4 screws (L) and screw (M) and the Chassis (162), than the Tone P.C. Board (PCB-2) can be removed. Unsolder the lead wires if necessary when removing each P.C. Board.

## ALIGNMENT PROCEDURES (REFER TO PAGES 8 , 10 , 11 , 20 AND 23 )

### ■ Conditions:

- Set the Source selector to the "CD" position.

- Set the Volume control to minimum.
- Set the Speaker selector to the "off" position.
- Make the adjustment at a room temperature of 77°F (25°C).

### ■ PHONO DRIVER ADJUSTMENT

| Step | Connection Equipments                    | Adjustment | For  |
|------|--|------------|------|
| 1    | Connect the Digital Volt Meter to TP701. | VR601      | 2.2V |
| 2    | Connect the Digital Volt Meter to TP702. | VR602      | 2.2V |

### ■ IDLING CURRENT ADJUSTMENT

| Step | Connection Equipments                    | Adjustment | For  |
|------|--|------------|------|
| 1    | Connect the Digital Volt Meter to TP403. | VR405      | 43mV |
| 2    | Connect the Digital Volt Meter to TP404. | VR406      | 43mV |

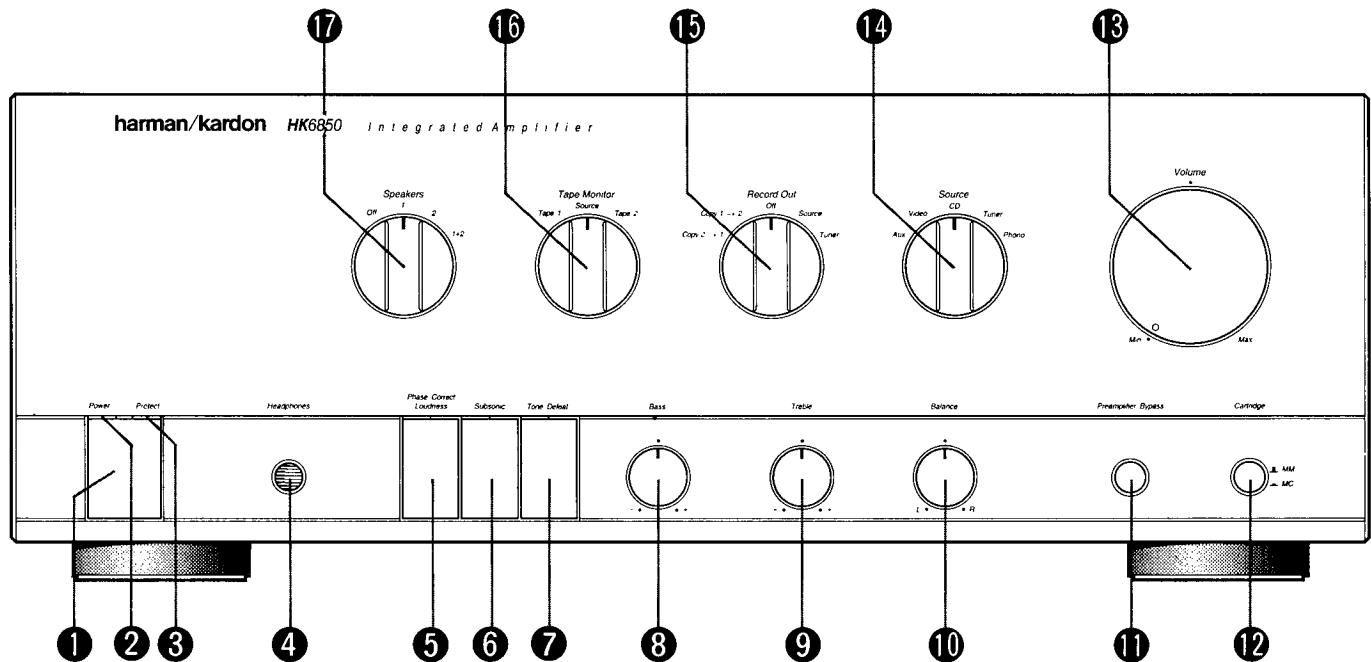
### ■ MAIN OFFSET DC BALANCE ADJUSTMENT

- Set the Speaker Selector switch to the "1" position.

| Step | Connection Equipments                            | Adjustment | For |
|------|--|------------|-----|
| 1    | Connect the Digital Volt Meter to TM15 and TM17. | VR401      | 0mV |
| 2    | Connect the Digital Volt Meter to TM16 and TM18. | VR402      | 0mV |

■ After the above adjustment, leave the unit with its power on for longer than 30 minutes and then repeat the same adjustment.

## CONTROLS AND FUNCTIONS

**① Power Switch**

Press this switch to turn the unit "On". Press it again to turn it "Off".

**② Power Indicator**

This indicator is illuminated in green when the power switch is "On" and is not illuminated when the power switch is "Off".

**③ PROTECT light**

This light indicates that the protection circuitry of your amplifier is engaged. The light will come on under two circumstances:

- When you turn the unit on. As the unit prepares itself for operation, a muting circuit temporarily prevents pops or other noise from reaching your speakers. When the unit is ready for operation (in approximately 10 seconds), the light will go off.
- When the unit detects a problem. This light will come on if your speakers wires are touching, causing a short circuit, or if your amplifier overheats. In the case of overheating, a thermal sensor will shut down the unit before damage can occur. Depending on the cause and extent of the overheating, the unit may take some time to cool down, and the protection circuit will remain in operation until the unit is cool enough to operate safely. In the case of a short circuit in the speaker wires, the protection circuitry will attempt to reset itself every 10 seconds, and you may hear a slight click as it does so. The protection circuit will remain in operation until the condition is corrected.

**④ HEADPHONE jack**

Stereo headphones with a standard 6.5 mm (1/4") plug can be connected to this jack. You can listen to headphones regardless of whether your speakers are playing. To listen to headphones only, turn the speaker selector to "OFF".

**⑤ PHASE CORRECT LOUDNESS**

At low volume levels, your ear is less sensitive to very low bass frequencies than it is at normal listening levels. The loudness button provides a special equalization curve that boosts low frequencies. The loudness button is useful for restoring full frequency balance at low volume levels, and can also be used to improve the bass response of small bookshelf speakers. The indicator light will be lit when PHASE CORRECT LOUDNESS is on.

**⑥ SUBSONIC filter**

Warped records and turntable resonance can generate sub-audible frequencies that can cause your speaker's woofer cones to visibly flutter. This very low frequency noise, while inaudible, can rob power from your amplifier, can cause feedback through your turntable, can cause intermodulation distortion at audible frequencies, and can actually damage your woofers if the movement is violent enough. The subsonic filter reduces these inaudible frequencies at 6dB per octave below 15Hz. The audible portion of the frequency range will not be affected, so it is useful to leave the subsonic filter on at all times when listening to the turntable. The indicator light will be lit when the SUBSONIC filter is on.

**⑦ TONE DEFEAT switch**

When TONE DEFEAT is turned on, the bass and treble controls have no effect. The TONE DEFEAT switch internally bypasses the tone control circuitry, resulting in completely unaltered frequency response. If you want to use the bass and treble controls, turn TONE DEFEAT off. The indicator light will be lit when the TONE DEFEAT switch is on.

**⑧ BASS control**

The BASS control boosts or reduces the low frequency sound level. The BASS control affects only frequencies below 300Hz, and allows changes of up to  $\pm 10$ dB. The BASS tone control, in some circumstances, can help you adjust the overall sound of your system. For example, "boomy" room acoustics may be improved with a slight decrease in the bass, or the sound of smaller loudspeakers lacking in bass may be improved with a bass boost.

**⑨ TREBLE control**

The TREBLE control boosts or reduces the high frequency sound level. The TREBLE control affects only frequencies above 3000Hz, and allows changes of up to  $\pm 10$ dB. The TREBLE tone control, in some circumstances, can help you adjust the overall sound of your system. For example, an overly shrill recording or "bright" room acoustics may be improved by a reduction in the amount of treble.

**⑩ BALANCE CONTROL**

The BALANCE control distributes the sound between the right and left speakers. For equal balance in each channel, set the control in the center.

**⑪ PREAMPLIFIER BYPASS**

When the PREAMPLIFIER BYPASS switch is on, the source signal goes directly to the input of the amplifier, bypassing all tone controls and other preamplifier circuitry and is attenuated only by the volume control.

**⑫ CARTRIDGE selector**

This switch sets up the gain and input impedance of your amplifier's internal circuitry to match the type of cartridge being used on your turntable. Be sure you connect your turntable to the appropriate PHONO input jacks on the back of the HK6850 (MM for moving magnet cartridges, or MC for moving coil cartridges). Then use this switch to select the type of cartridge mounted on your turntable. Note that you can connect both moving coil and moving magnet cartridge inputs and use this switch to select between them. The MC setting engages a special MC step-up amplifier stage.

**⑬ VOLUME control**

This knob controls the sound level. Turn the VOLUME control all the way down before you turn on your amplifier or change sound source. This will protect your speakers from being damaged by sudden high-volume sound.

**⑭ SOURCE selector**

The SOURCE selector controls which program source you are listening to.

- PHONO - Selects a turntable connected to either the MM or MC phone jack.
- TUNER - Selects an AM or FM broadcast from a tuner connected to the tuner jacks.
- CD - Selects a compact disc player connected to the CD jacks.
- VIDEO - Selects sound from an audio/video component such as a camcorder, TV tuner connected to the VIDEO jacks.
- AUX - Selects sound from any component connected to the AUX jacks.

**⑮ RECORD OUT selector**

This selector controls which program source you can record on the tape deck(s) connected to your unit. Whatever source you select is sent to all tape decks connected to your HK6850, so you can record on both decks simultaneously.

- TUNER - In this position, the tuner signal is the source you are recording regardless of the position of the SOURCE selector. This permits you to record the tuner signal while listening to a completely different source (selected on the SOURCE selector, described above).
- SOURCE - In this setting, whatever source you have selected on the SOURCE selector will be the source you are recording.
- OFF - Leave the selector in this position when you are not recording. This will ensure the purest sound quality when you listen directly to a source selected with the SOURCE selector.
- COPY 1 → 2 - In this position, you are recording *from* the deck connected to the TAPE 1 jacks *to* the deck connected to the TAPE 2 jacks.
- COPY 2 → 1 - In this position, you are recording *to* the deck connected to the TAPE 1 jacks *from* the deck connected to the TAPE 2 jacks.

For example, if you want to make a tape recording of a CD, set the RECORD OUT selector to SOURCE, and set the SOURCE selector to CD.

**⑯ TAPE MONITOR selector**

The TAPE MONITOR selector enables you to listen to your tape deck. Note that this selector does not select the source for recording. It selects only the deck you are listening to. An important use for this selector is for monitoring during recording. To monitor during recording, select the deck that is recording. For listening to one tape deck while the other deck is recording a different source, select the deck that is not recording.

- TAPE 1 - In this position, you are listening to the deck connected to the TAPE 1 jacks.
- SOURCE - The SOURCE position turns off the output from your deck and returns you to the source you have selected on the SOURCE selector.
- TAPE 2 - In this position, you are listening to the deck connected to the TAPE 2 jacks.

**⑰ SPEAKER selector**

You can connect either one or two sets of speakers to your HK6850. This selector enables you to play a single set of speakers by themselves, both sets of speakers at the same time, or to turn both sets of speakers off for headphone-only listening.

- OFF - Select this position to turn off both sets of speakers.
- 1 - Select this position to play the speakers connected to the SPEAKER SYSTEM 1 terminals.
- 2 - Select this position to play the speakers connected to the SPEAKER SYSTEM 2 terminals.
- 1+2 - Select this position to play both sets of speakers at the same time.

## GENERAL UNIT PARTS LIST

| Ref. No. | Part No.      | Description  | Ref. No. | Part No.      | Description                        |
|----------|---------------|--|----------|---------------|------------------------------------|
| AA       | A443-HK6850A  | CABINET FRONT ASSEMBLY   | 192      | 2240-7395     | HOLDER, PRE OUT/MAIN IN SWITCH     |
| AA       | A443-HK6850B  | CABINET FRONT ASSEMBLY   | 193      | 2240-7397     | HOLDER, TONE SWITCH (x 3)          |
| AB       | A424-HK6850C  | CABINET BACK ASSEMBLY  | 195      | 2240-7360     | HOLDER, SPEAKER SWITCH SHAFT       |
| BB       | B219-HK6850A  | METAL FITTING ASSEMBLY   | 196      | 2240-7361     | HOLDER, SPEAKER KNOB SHAFT         |
| 023      | 2219-8349     | METAL FITTING, VOLTAGE SELECTOR  | 197      | 2240-7362     | HOLDER, LINK                       |
| 024      | 2219-8350     | METAL FITTING, VOLTAGE SELECTOR (x 2)                                    | 198      | 2240-7363     | HOLDER, SHAFT HOLD (FRONT)         |
| 025      | 2327-R0130062 | SCREW, BND+ (3 x 6mm) (x 2)  | 199      | 2240-7364     | HOLDER, SHAFT HOLD (REAR)          |
| 026      | 2347-R0130062 | SCREW, BND T+ (3 x 6mm) (x 2)  | 200      | 2240-7396     | HOLDER, POWER LED                  |
| 027      | 2219-8283     | METAL FITTING, TRANSFORMER BOTTOM  | 201      | 2240-7366     | HOLDER, TONE LED (x 2)             |
| 028      | 2327-R0130062 | SCREW, BND+ (3 x 6mm)  | 202      | 2240-7369     | HOLDER, SUB PCB (x 3)              |
| 029      | 2459-3003511  | RIVET PLASTIC (x 2)  | 203      | 2240-R0101    | HOLDER, WIRING (x 36)              |
| 030      | 2219-8372     | METAL FITTING, TRANS BOTTOM  | 206      | 2360-7019     | BOSS, SPE, BOTTOM (x 2)            |
| 031      | 1756-R01TS122 | LABEL, SUB FUSE (x 2)  | 207      | 2360-7020     | BOSS, SPE, BOTTOM (x 4)            |
| 032      | 1756-21905    | LABEL  | 208      | 2362-961410   | BOSS, THREAD, TRANS BOTTOM         |
| 116      | 1117-78       | SERIAL LABEL, PRODUCT NO.  | 209      | 2363-501724   | BOSS, PIPE, TRANS LEG              |
| 131      | 1414-14901    | CABINET TOP  | 212      | 2224-7132     | INSULATOR, CABINET BACK            |
| 133      | 1424-35801    | CABINET BACK   | 213      | 2216-7184     | SHIELD PLATE, CHASSIS              |
| 134      | 1424-29901    | CABINET BOTTOM   | 214      | 2459-3005511  | RIVET, PLASTIC, SHIELD PLATE (x 2) |
| 136      | 1443-14101    | PANEL, FRONT   | 215      | 2310-7036     | SCREW, SPE, GND                    |
| 136      | 1443-14102    | PANEL, FRONT   | 216      | 2410-7018     | WASHER, SPE, GND                   |
| 138      | 1562-08401    | FRAME, L   | 217      | 2440-7027     | NUT, SPE, GND                      |
| 138      | 1562-08402    | FRAME, L   | 218      | 2440-7016     | NUT, SPE, GND                      |
| 139      | 1562-08501    | FRAME, R   | 219      | 2224-7100     | INSULATOR, HEAT SINK               |
| 139      | 1562-08502    | FRAME, R   | 220      | 2402-0374     | WASHER, PLASTIC, DRIVER PCB (x 2)  |
| 140      | 1568-00301    | FRAME, WIRING (x 3)  | 222      | 2431-0151     | FASTENER, NAME PLATE (x 2)         |
| 142      | 1630-04701    | ROTARY KNOB, VOLUME  | 223      | 2459-3008011  | RIVET, PLASTIC, LINK HOLD (x 2)    |
| 142      | 1630-04702    | ROTARY KNOB, VOLUME  | 224      | 2446-30229    | NUT, HEX, SPEAKER KNOB SHAFT       |
| 143      | 1630-04001    | ROTARY KNOB, TAPE MONITOR, RECORD OUT, SOURCE                            | 225      | 2111-1387     | FELT, SPEAKER KNOB SHAFT           |
| 143      | 1630-04002    | ROTARY KNOB, TAPE MONITOR, RECORD OUT, SOURCE                            | 226      | 2403-301      | WASHER, POLY                       |
| 144      | 1630-04101    | ROTARY KNOB, BASS, TREBLE, BALANCE                                       | 227      | 2601-7069     | SHAFT, SPEAKER JOINT               |
| 144      | 1630-04102    | ROTARY KNOB, BASS, TREBLE, BALANCE                                       | 228      | 2601-7188     | SHAFT, SPEAKER SWITCH              |
| 145      | 1634-05901    | ROTARY KNOB, SPEAKERS  | 229      | 2601-7189     | SHAFT, SPEAKER KNOB                |
| 145      | 1634-05902    | ROTARY KNOB, SPEAKERS  | 230      | 2601-7190     | SHAFT, MC                          |
| 147      | 1660-01601    | PUSH BUTTON, POWER   | 231      | 2112-11773    | SPONGE, PHONO PCB                  |
| 147      | 1660-01602    | PUSH BUTTON, POWER   | 232      | 2112-11800    | SPONGE, HOLDER                     |
| 148      | 1660-01701    | PUSH BUTTON, PHASE CORRECT LOUDNESS, SUBSONIC, TONE DEFEAT               | 233      | 2112-11771    | SPONGE, TRANS BOTTOM (x 4)         |
| 148      | 1660-01702    | PUSH BUTTON, PHASE CORRECT LOUDNESS, SUBSONIC, TONE DEFEAT               | 234      | 2440-7016     | NUT, SPE, TRANS BOTTOM             |
| 150      | 1662-67201    | PUSH BUTTON, PREAMPLIFIER BYPASS, CARTRIDGE                              | 235      | 2327-R0140102 | SCREW, BND+ (4 x 10mm) (x 4)       |
| 150      | 1662-67202    | PUSH BUTTON, PREAMPLIFIER BYPASS, CARTRIDGE                              | 236      | 2440-60       | NUT, SPE (x 4)                     |
| 153      | 1714-02601    | NAME PLATE, BADGE  | 237      | 2327-R0126044 | SCREW, BND+ (2.6 x 4mm) (x 2)      |
| 153      | 1714-02602    | NAME PLATE, BADGE  | 238      | 2327-R0130062 | SCREW, BND+ (3 x 6mm)              |
| 155      | 1732-06901    | INDICATOR, POWER, PROTECT, PHASE CORRECT LOUDNESS, SUBSONIC, TONE DEFEAT | 239      | 2327-R0130062 | SCREW, BND+ (3 x 6mm) (x 8)        |
| 157      | 1742-08501    | ORNAMENT, POWER, TONE  | 242      | 2347-R0130102 | SCREW, BND T+ (3 x 10mm)           |
| 157      | 1742-08502    | ORNAMENT, POWER, TONE  | 243      | 2343-300826   | SCREW, CSC T+ (3 x 8mm) (x 2)      |
| 158      | 1742-08401    | ORNAMENT, PREAMPLIFIER BYPASS, CARTRIDGE                                 | 244      | 2347-R0130062 | SCREW, BND T+ (3 x 6mm) (x 18)     |
| 158      | 1742-08402    | ORNAMENT, PREAMPLIFIER BYPASS, CARTRIDGE                                 | 245      | 2347-R0130082 | SCREW, BND T+ (3 x 8mm) (x 3)      |
| 159      | 1319-03901    | LEG (x 3)  | 246      | 2347-R0130082 | SCREW, BND T+ (3 x 8mm) (x 6)      |
| 160      | 1319-02301    | LEG, TRANS   | 247      | 2347-R0130082 | SCREW, BND T+ (3 x 8mm) (x 11)     |
| 161      | 2114-71246    | BUSHING, AC CORD   | 248      | 2347-R0130082 | SCREW, BND T+ (3 x 8mm) (x 11)     |
| 162      | 2211-7308     | CHASSIS  | 249      | 2347-R0130122 | SCREW, BND T+ (3 x 12mm) (x 2)     |
| 163      | 2218-7038     | BRACKET, FIX, MAIN PCB (L) (x 2)   | 250      | 2347-R0130122 | SCREW, BND T+ (3 x 12mm) (x 2)     |
| 164      | 2218-7038     | BRACKET, FIX, MAIN PCB (R) (x 2)   | 251      | 2347-R0130084 | SCREW, BND T+ (3 x 8mm) (x 2)      |
| 165      | 2218-7038     | BRACKET, FIX, SPEAKERS PCB (x 4)   | 252      | 2347-R0130062 | SCREW, BND T+ (3 x 6mm) (x 3)      |
| 166      | 2218-89       | BRACKET, FIX, HEADPHONES   | 253      | 2347-R0130064 | SCREW, BND T+ (3 x 6mm) (x 24)     |
| 167      | 2219-8273     | METAL FITTING, HEADPHONES  | 254      | 2347-R0130064 | SCREW, BND T+ (3 x 6mm)            |
| 168      | 2219-8267     | METAL FITTING, PHONO BOTTOM  | 255      | 2347-R0130124 | SCREW, BND T+ (3 x 12mm)           |
| 169      | 2219-8268     | METAL FITTING, HEAT SINK (L)   | 256      | 2347-R0130164 | SCREW, BND T+ (3 x 16mm)           |
| 170      | 2219-8269     | METAL FITTING, HEAT SINK (R)   | 257      | 2347-R0140064 | SCREW, BND T+ (4 x 6mm)            |
| 171      | 2219-8266     | METAL FITTING, TRANS   | 260      | 2396-300549   | SCREW, SK HEX (3 x 5mm)            |
| 172      | 2219-8271     | METAL FITTING, PHONO TOP   | 261      | 2557-300829   | SCREW, B SPW+ (3 x 8mm)            |
| 173      | 2219-8272     | METAL FITTING, SPEAKERS SWITCH   | 263      | 2557-300829   | SCREW, B SPW+ (3 x 8mm) (x 2)      |
| 174      | 2219-8351     | METAL FITTING, POWER SWITCH  | 264      | 2557-300829   | SCREW, B SPW+ (3 x 8mm) (x 2)      |
| 176      | 2222-7179     | HEAT SINK, TONE  | 265      | 2557-300829   | SCREW, B SPW+ (3 x 8mm) (x 4)      |
| 177      | 2222-7194     | HEAT SINK, PHONO (x 2)   | 266      | 2557-301229   | SCREW, B SPW+ (3 x 12mm) (x 5)     |
| 178      | 2222-7266     | HEAT SINK, HEAT SINK JOINT   | 267      | 2557-301229   | SCREW, B SPW+ (3 x 12mm) (x 5)     |
| 179      | 2222-7315     | HEAT SINK, DRIVER (x 4)  | 268      | 2557-301629   | SCREW, B SPW+ (3 x 16mm)           |
| 182      | 2222-7269     | HEAT SINK, SCR (x 2)   | 269      | 2557-301629   | SCREW, B SPW+ (3 x 16mm)           |
| 183      | 2222-7304     | HEAT SINK, MAIN (L)  | 271      | 2218-R0130    | BRACKET, FIX, WIRING (x 3)         |
| 184      | 2222-7305     | HEAT SINK, MAIN (R)  | 272      | 2651-2101733  | SPRING, POWER (x 4)                |
| 186      | 2222-7275     | HEAT SINK, MAIN (L)  | 275      | 2412-3022     | WASHER, SPRING                     |
| 187      | 2222-7275     | HEAT SINK, MAIN (R)  | 276      | 2219-7945     | METAL FITTING, DRIVER GND          |
| 188      | 2360-7064     | BOSS, SPE, MAIN PCB (L)  | 277      | 2401-0373     | WASHER, METAL, DRIVER GND          |
| 189      | 2360-7064     | BOSS, SPE, MAIN PCB (R)  | 278      | 2401-0373     | WASHER, METAL                      |
| 190      | 2132-7136     | SPACER (x 6)   | 279      | 2401-0373     | WASHER, METAL                      |
|          |               |  | 892      | 2440-62       | NUT, SPE HEX                       |

## NOTE

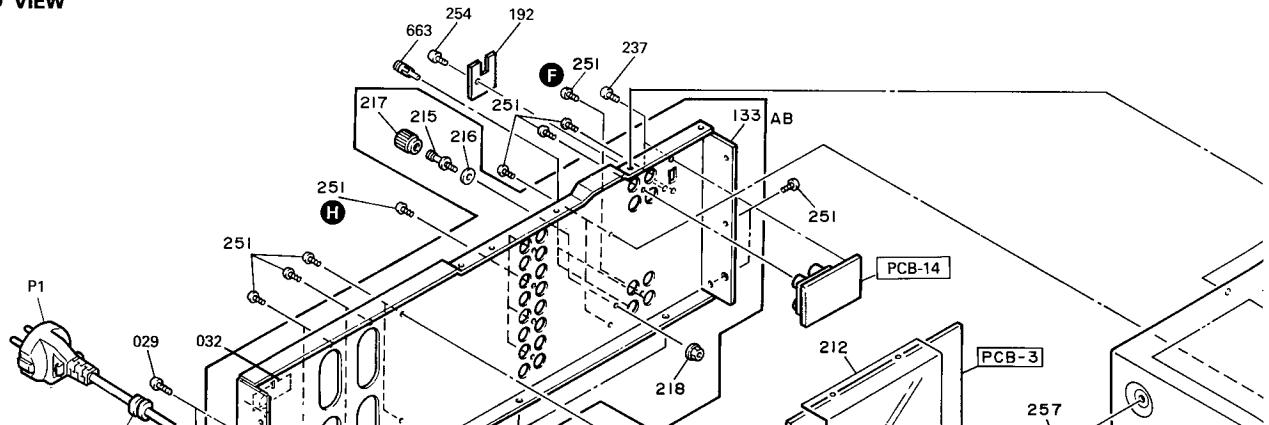
SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.

A B C D E

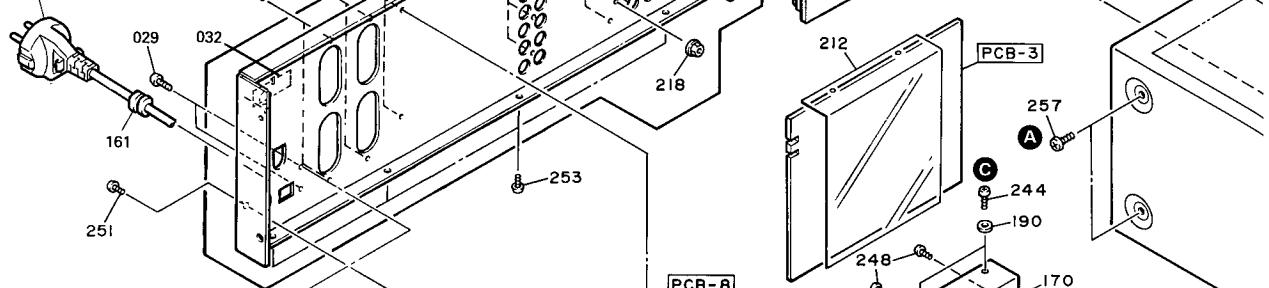
## GENERAL UNIT

### EXPLODED VIEW

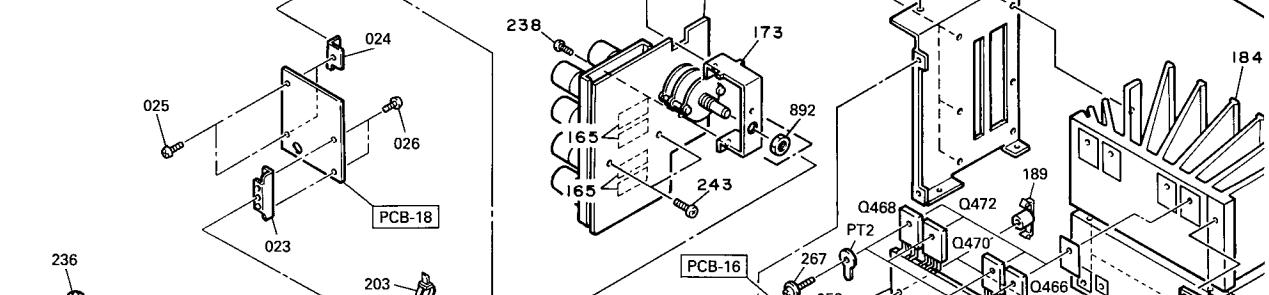
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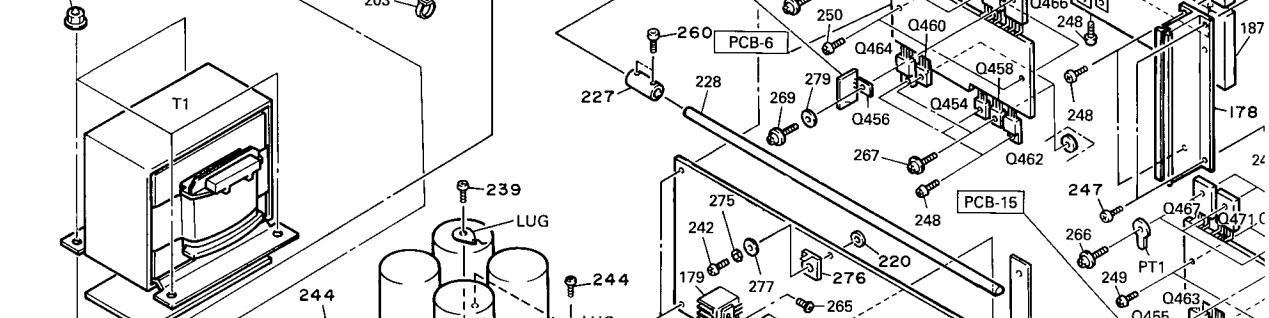
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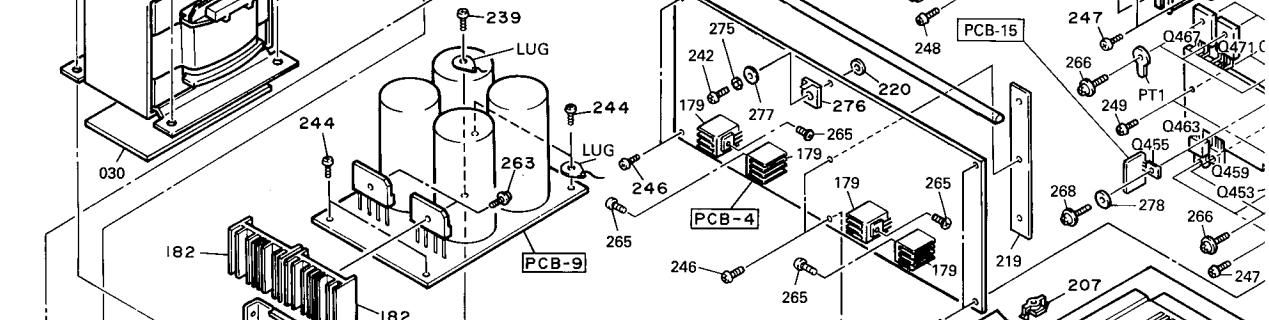
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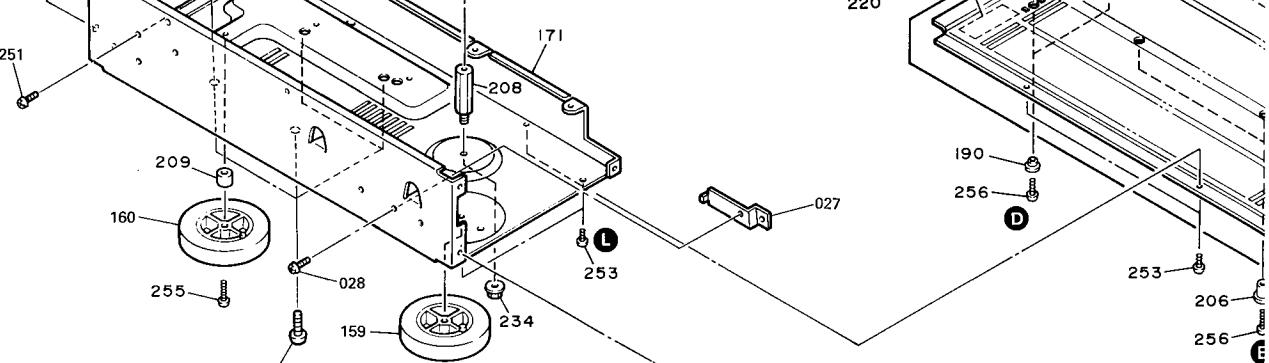
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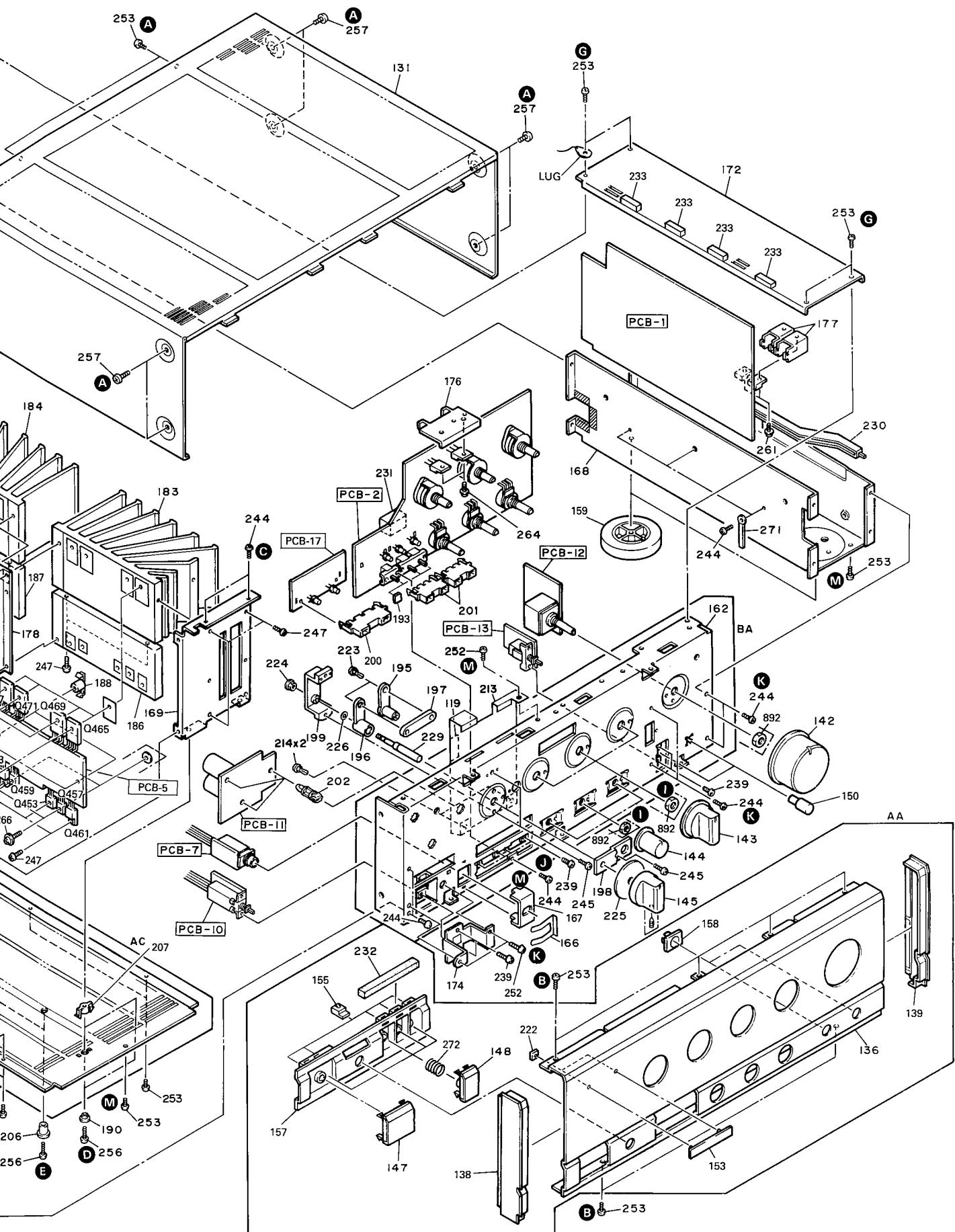


6



7

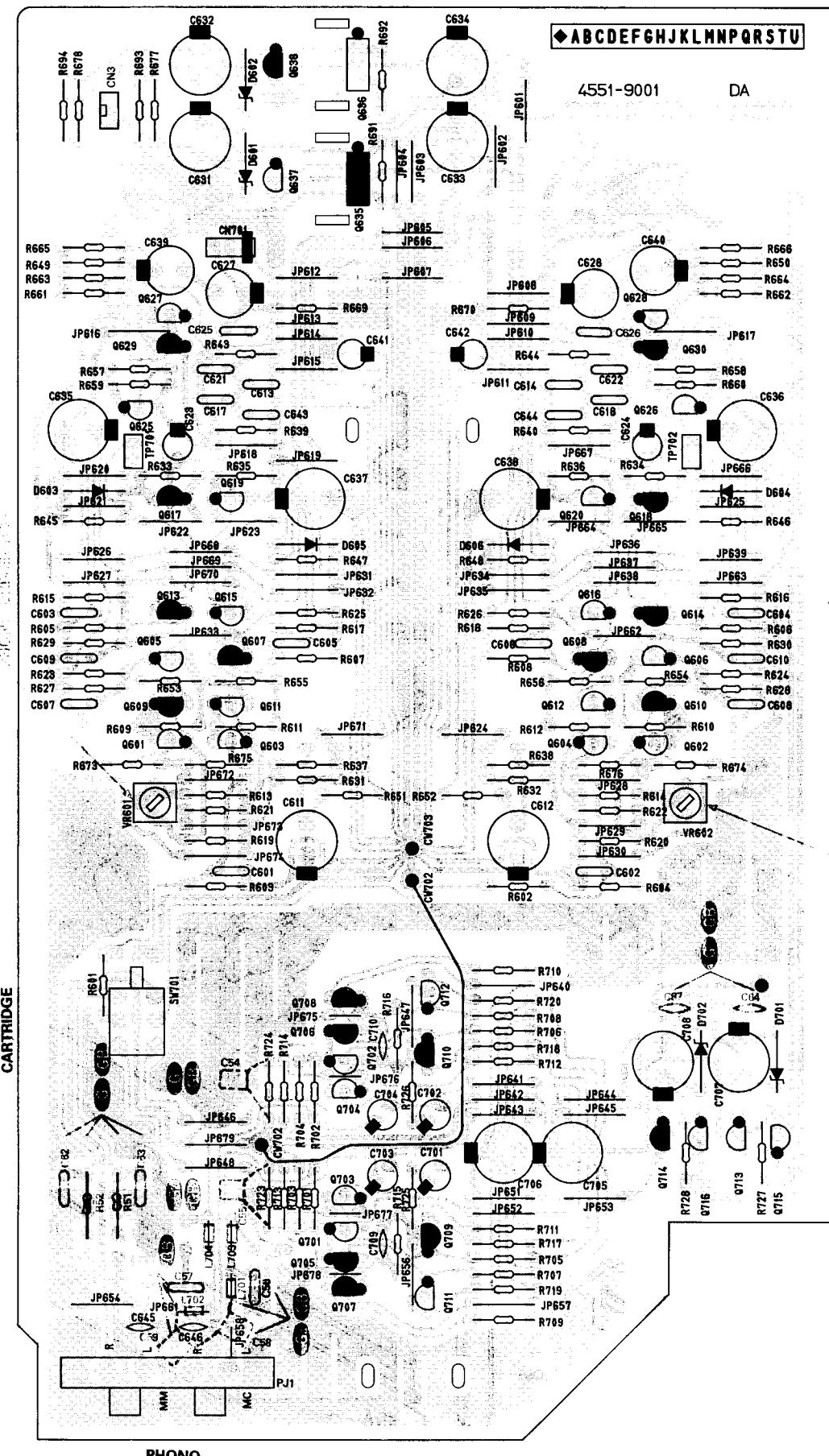
**F**      **G**      **H**      **I**      **J**



A B C D E

## P.C. BOARDS

PCB-1 Phono P.C. Board



F

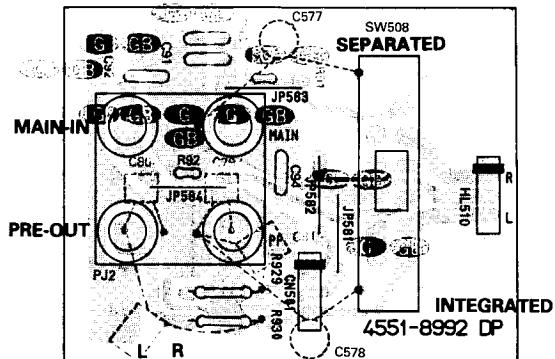
G

H

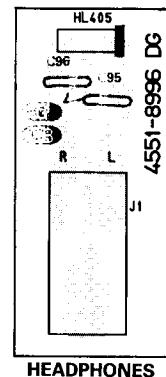
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J

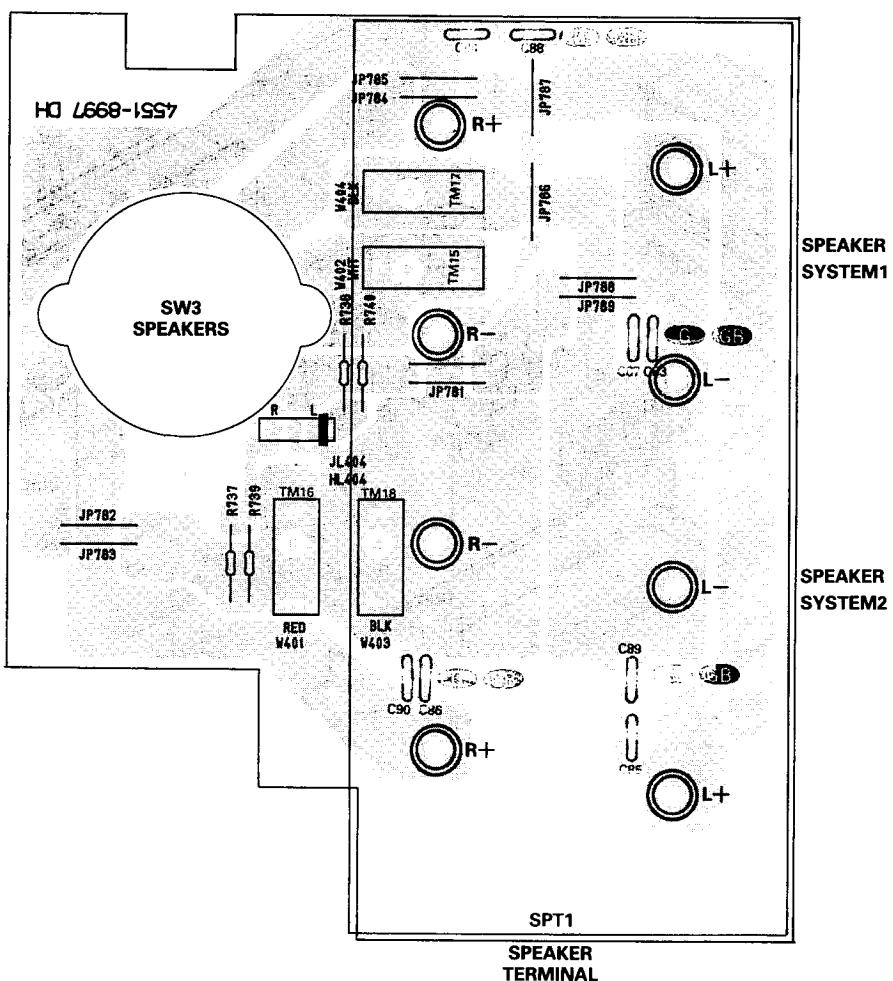
**PCB-14 Pre/Main Separation P.C. Board**



**PCB-7** Headphones P.C. Board

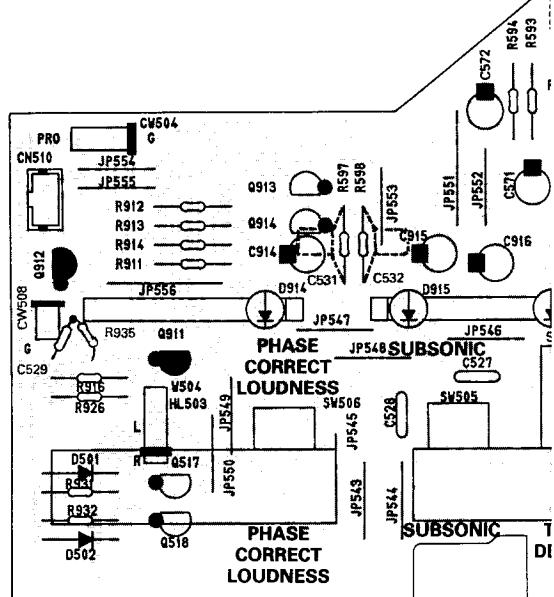
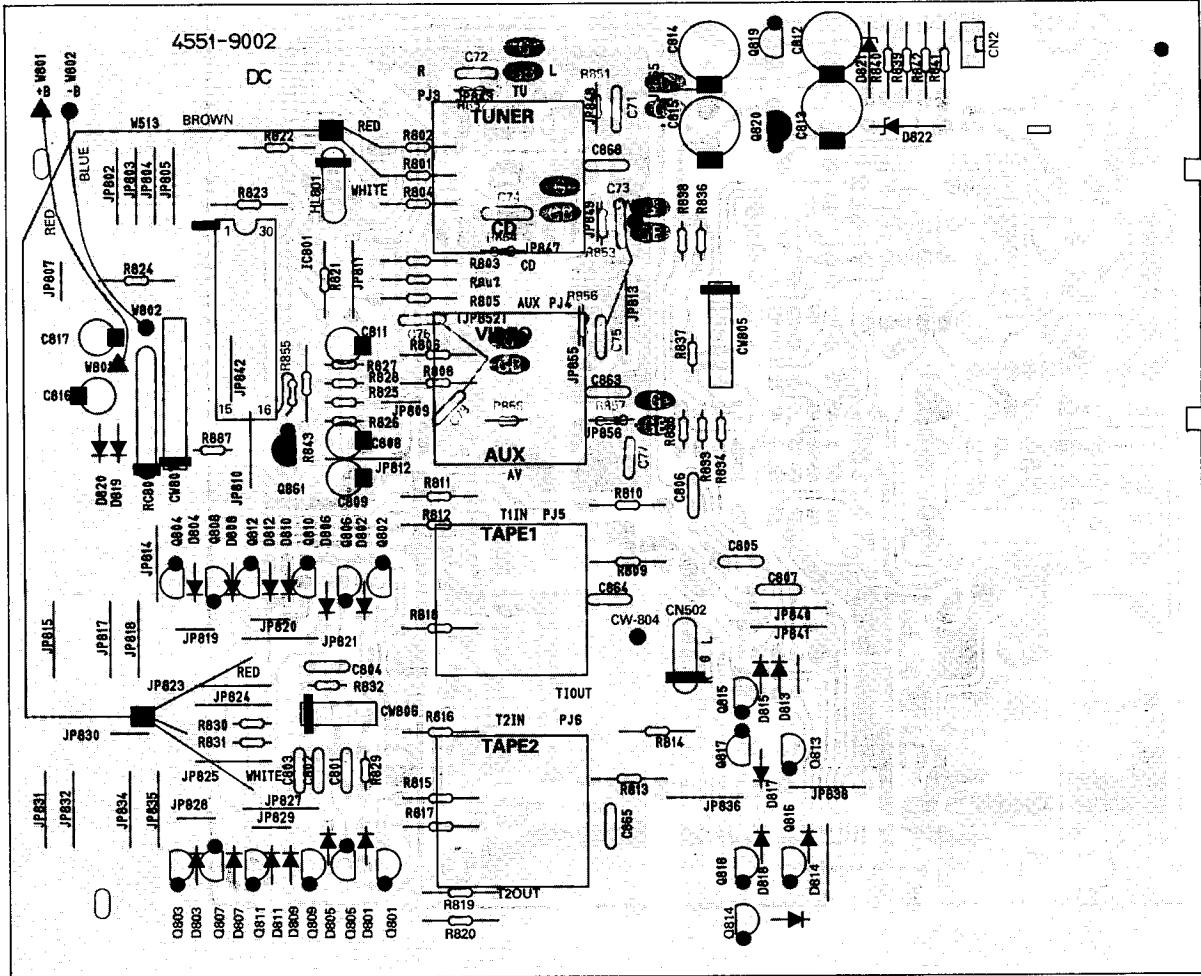


**PCB-8 Speaker P.C. Board**

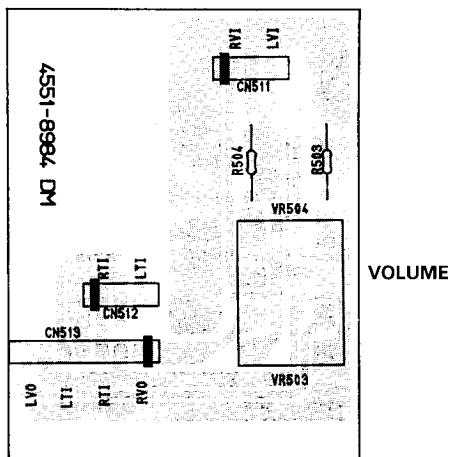


**P.C. BOARDS**

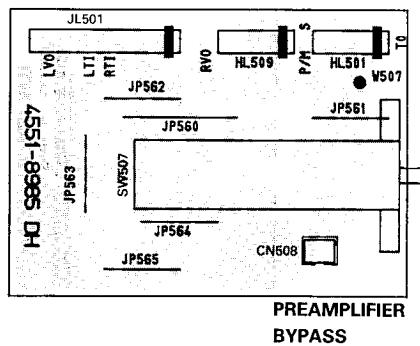
**PCB-3 Control P.C. Board**



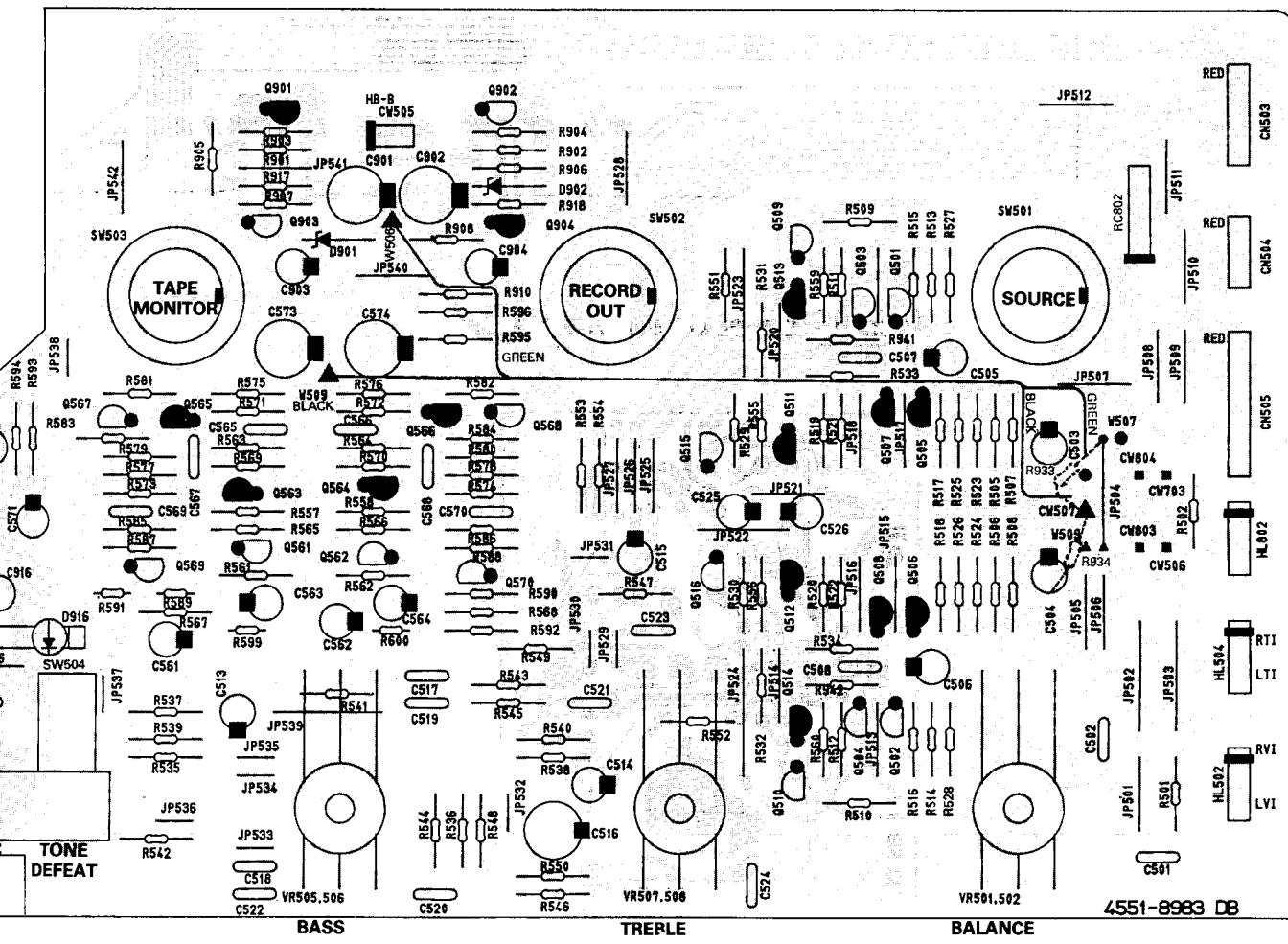
PCB-12 Volume P.C. Board



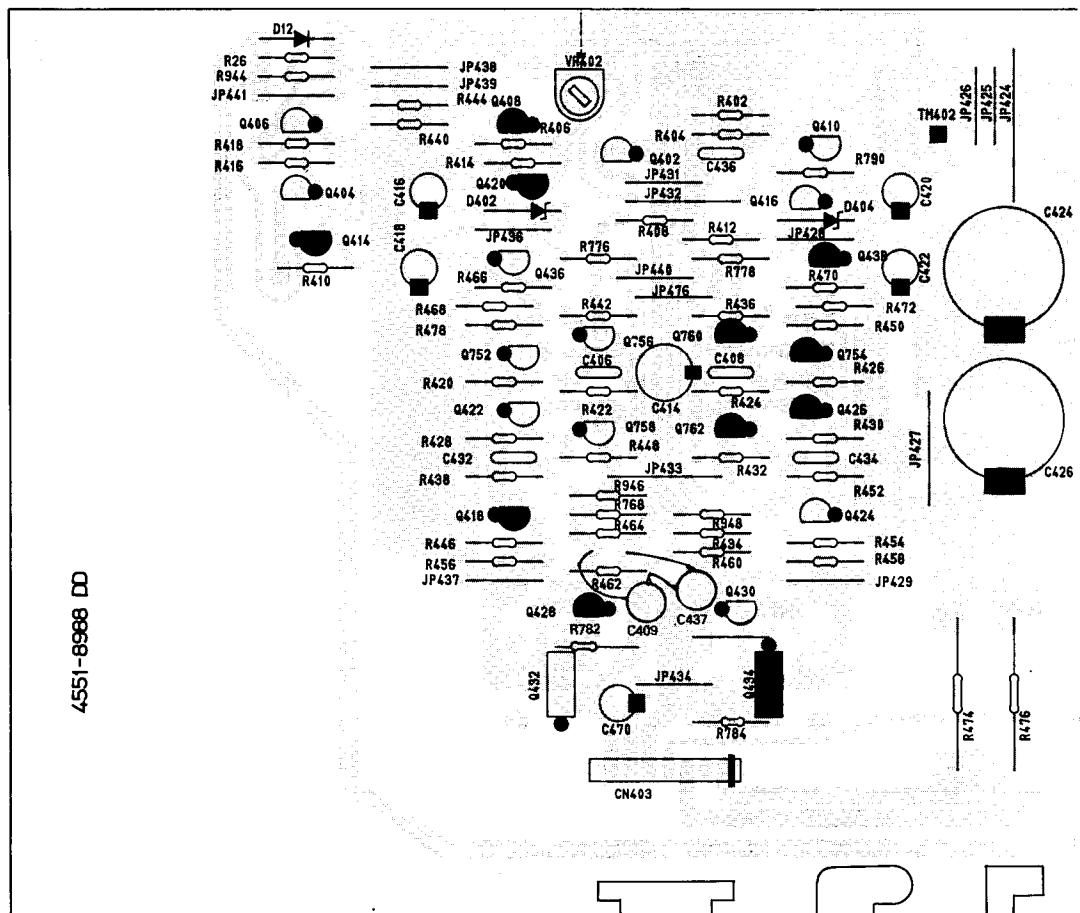
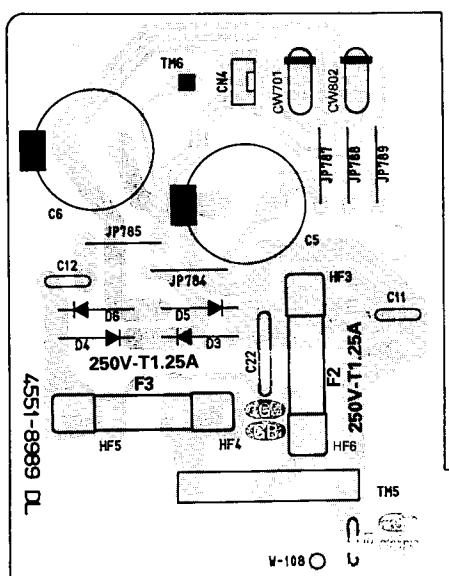
PCB-13 Bypass P.C. Board



PCB-2 Tone P.C. Board



A B C D E

**P.C. BOARDS****PCB-4 Driver P.C. Board****PCB-11 Sub Power Supply P.C. Board**

E

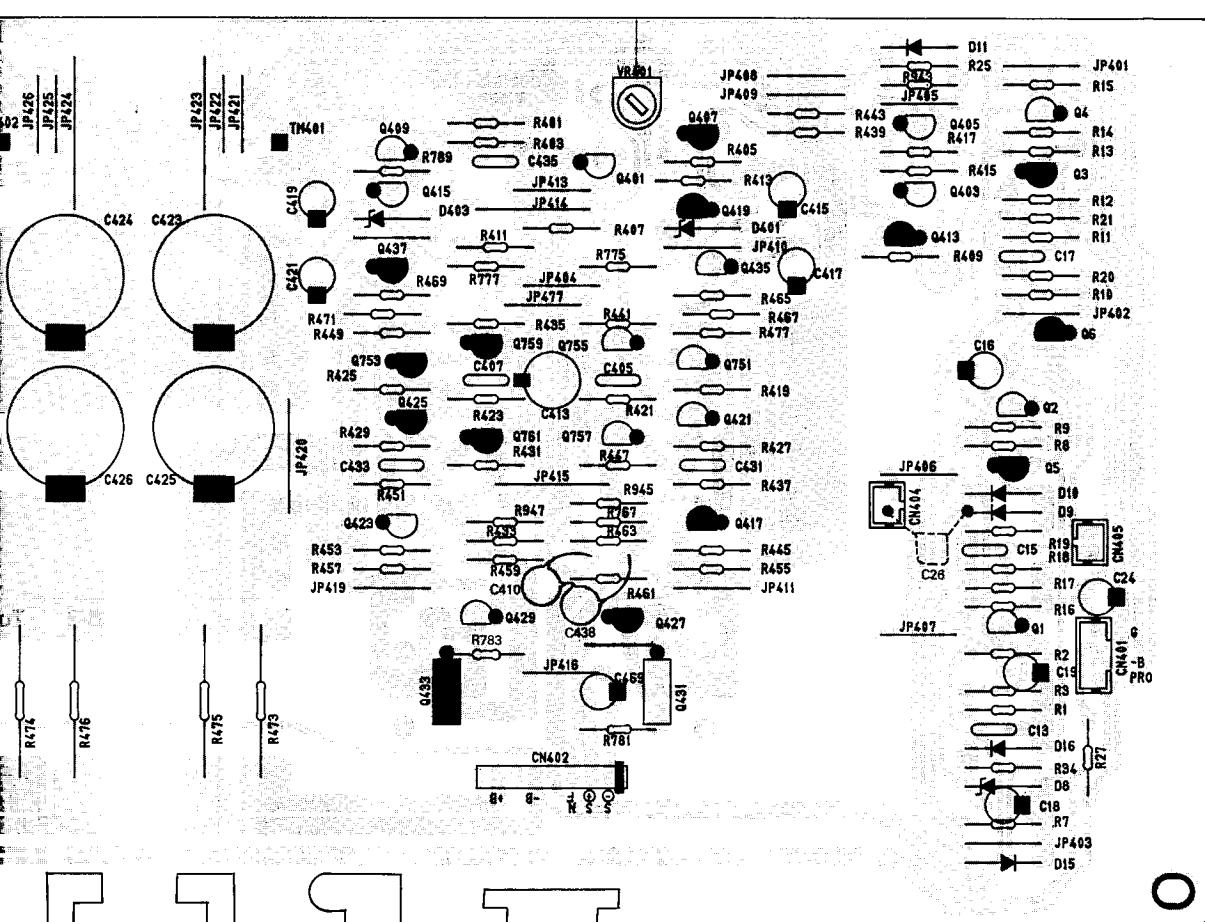
F

G

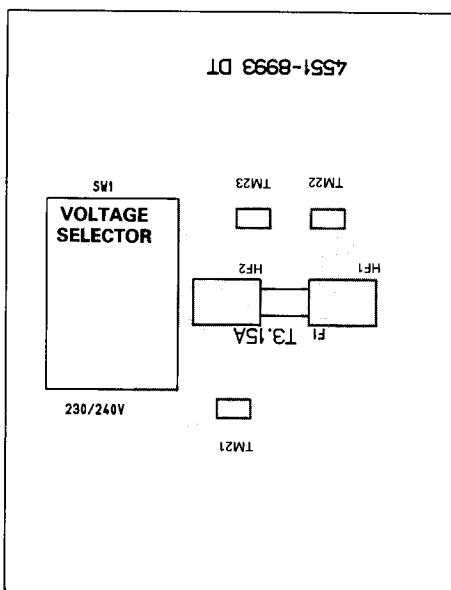
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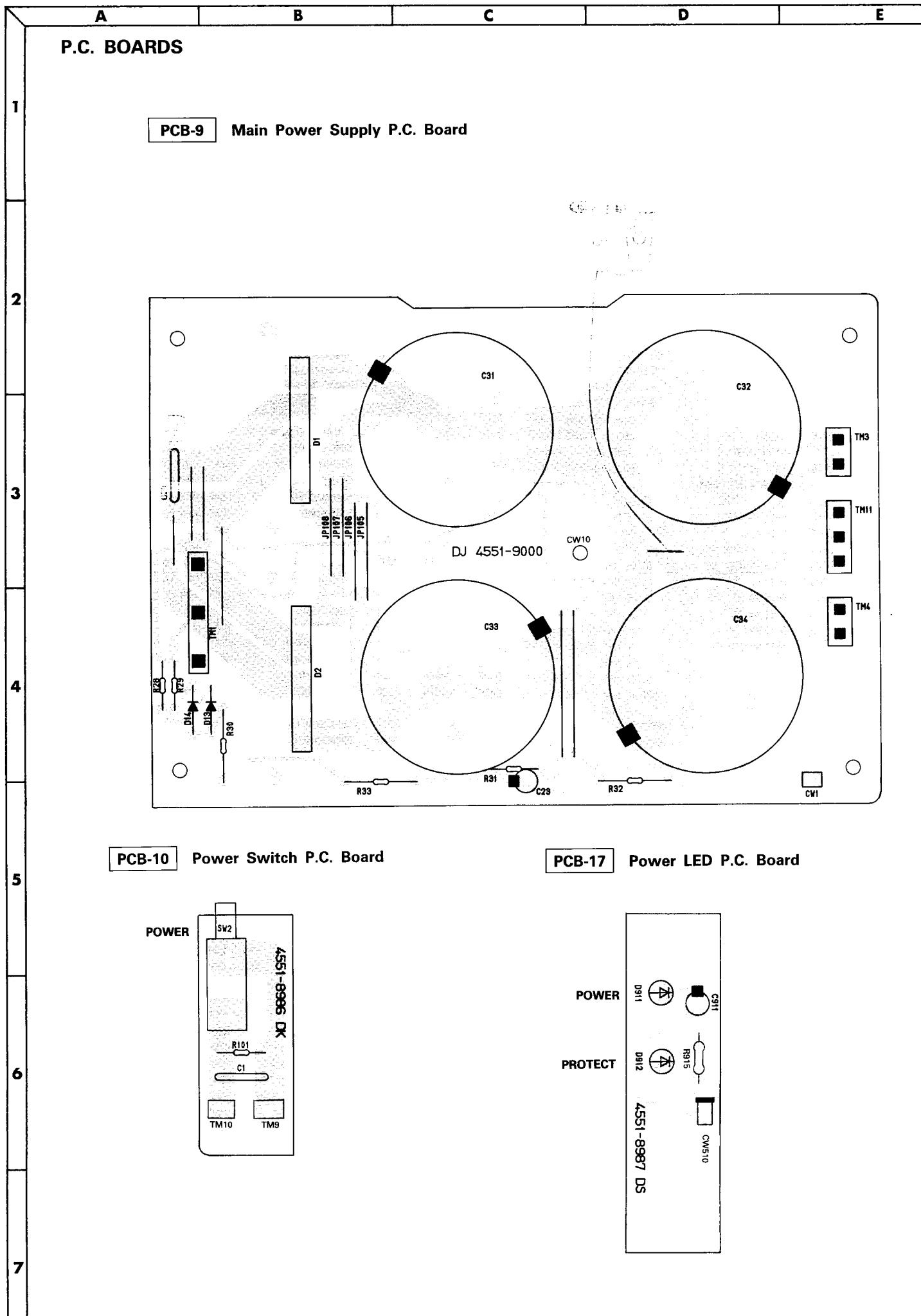
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1



**PCB-18** Volume Selector P.C. Board





F

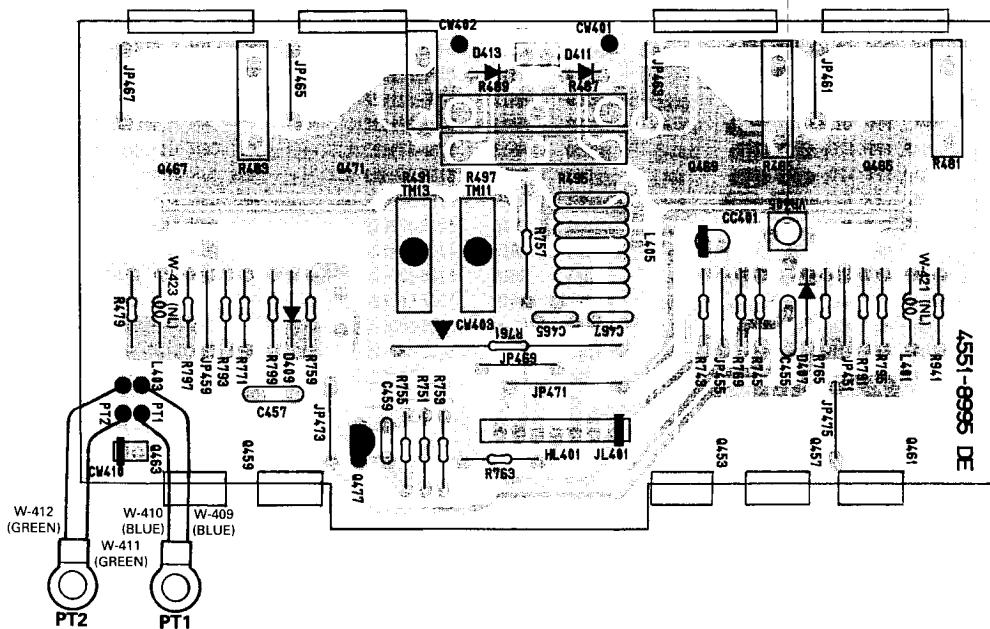
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H

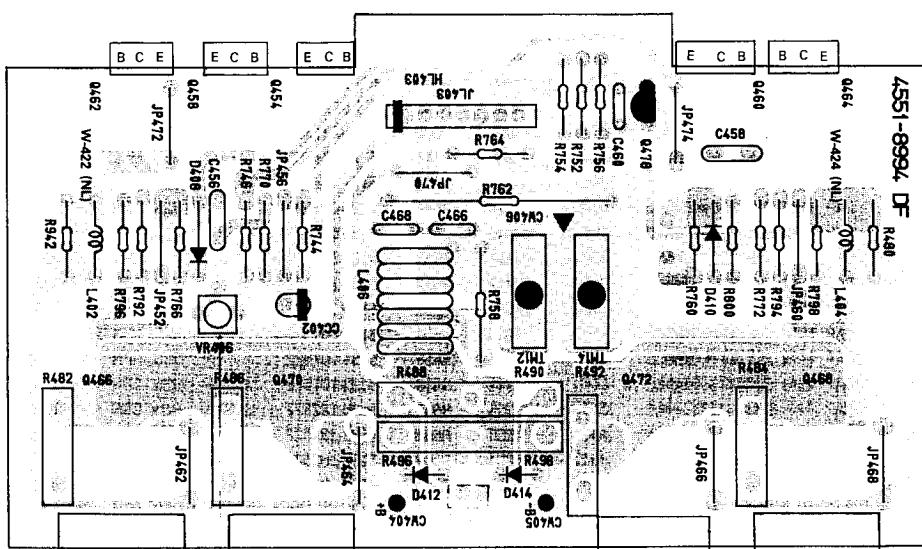
T

J

**PCB-5 Main Lch P.C. Board**

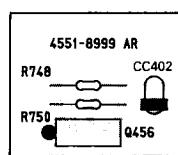
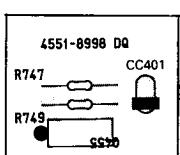


## **PCB-6 Main Rch P.C. Board**



PCB-15 Terminal L.P.C. Board

PCB-16 Terminal B P.C. Board



## ELECTRICAL PARTS LIST

| Ser. No.                      | Ref. No. | Part No.         | Description              | Ser. No. | Ref. No. | Part No.     | Description        |
|-------------------------------|----------|------------------|--------------------------|----------|----------|--------------|--------------------|
| <b>PCB-1 PHONO P.C. BOARD</b> |          |                  |                          |          |          |              |                    |
| <b>CAPACITORS</b>             |          |                  |                          |          |          |              |                    |
| 058A                          | C54      | 5353-470534      | CAP, MCA 47p             | 345      | R603     | 5135-473522  | RES, CBN 1/2P 47K  |
| 058A                          | C55      | 5353-470534      | CAP, MCA 47p             | 345      | R604     | 5135-473522  | RES, CBN 1/2P 47K  |
| 060A                          | C56      | 5359-1035851     | CAP, PPP .01             | 363      | R605     | 5174-102381  | RES, MTL 1/4P 1K   |
| 060A                          | C57      | 5359-1035851     | CAP, PPP .01             | 363      | R608     | 5174-102381  | RES, MTL 1/4P 1K   |
| 060A                          | C58      | 5359-1035851     | CAP, PPP .01             | 359      | R609     | 5135-221522  | RES, CBN 1/2P 220  |
| 060A                          | C59      | 5359-1035851     | CAP, PPP .01             | 359      | R610     | 5135-221522  | RES, CBN 1/2P 220  |
| 061A                          | C62      | 5359-1215851     | CAP, PPP 120p            | 359      | R611     | 5135-221522  | RES, CBN 1/2P 220  |
| 061A                          | C63      | 5359-1215851     | CAP, PPP 120p            | 359      | R612     | 5135-221522  | RES, CBN 1/2P 220  |
| 063A                          | C64      | 5361-223ZF       | CAP, CER .022            | 361      | R615     | 5135-331522  | RES, CBN 1/2P 330  |
| 063A                          | C87      | 5361-223ZF       | CAP, CER .022            | 361      | R616     | 5135-331522  | RES, CBN 1/2P 330  |
| 334                           | C601     | 5353-121534      | CAP, MCA 120p            | 361      | R617     | 5135-331522  | RES, CBN 1/2P 330  |
| 334A                          | C601     | 5353-820534      | CAP, MCA 82p             | 361      | R618     | 5135-331522  | RES, CBN 1/2P 330  |
| 334                           | C602     | 5353-121534      | CAP, MCA 120p            | 360      | R619     | 5135-680522  | RES, CBN 1/2P 68   |
| 334A                          | C602     | 5353-820534      | CAP, MCA 82p             | 360      | R620     | 5135-680522  | RES, CBN 1/2P 68   |
| 335                           | C603     | 5359-2215851     | CAP, PPP 220p            | 360      | R621     | 5135-680522  | RES, CBN 1/2P 68   |
| 335                           | C604     | 5359-2215851     | CAP, PPP 220p            | 360      | R622     | 5135-680522  | RES, CBN 1/2P 68   |
| 335                           | C605     | 5359-2215851     | CAP, PPP 220p            | 349      | R623     | 5135-105522  | RES, CBN 1/2P 1M   |
| 335                           | C606     | 5359-2215851     | CAP, PPP 220p            | 349      | R624     | 5135-105522  | RES, CBN 1/2P 1M   |
| 341                           | C607     | 5354-224593      | CAP, MYL .22             | 349      | R625     | 5135-105522  | RES, CBN 1/2P 1M   |
| 341                           | C608     | 5354-224593      | CAP, MYL .22             | 349      | R626     | 5135-105522  | RES, CBN 1/2P 1M   |
| 341                           | C609     | 5354-224593      | CAP, MYL .22             | 351      | R627     | 5135-334522  | RES, CBN 1/2P 330K |
| 341                           | C610     | 5354-224593      | CAP, MYL .22             | 351      | R628     | 5135-334522  | RES, CBN 1/2P 330K |
| 333                           | C611     | 5345-477A0952    | CAP, MINI ELE 470  /6.3V | 351      | R629     | 5135-334522  | RES, CBN 1/2P 330K |
| 333                           | C612     | 5345-477A0952    | CAP, MINI ELE 470  /6.3V | 351      | R630     | 5135-334522  | RES, CBN 1/2P 330K |
| 336                           | C613     | 5359-1035851     | CAP, PPP .01             | 364      | R631     | 5174-331381  | RES, MTL 1/4P 330  |
| 336                           | C614     | 5359-1035851     | CAP, PPP .01             | 364      | R632     | 5174-331381  | RES, MTL 1/4P 330  |
| 340                           | C617     | 5359-3315851     | CAP, PPP 330p            | 362      | R633     | 5135-102522  | RES, CBN 1/2P 1K   |
| 340                           | C618     | 5359-3315851     | CAP, PPP 330p            | 362      | R634     | 5135-102522  | RES, CBN 1/2P 1K   |
| 337                           | C621     | 5359-3325851     | CAP, PPP 3300p           | 362      | R635     | 5135-102522  | RES, CBN 1/2P 1K   |
| 337                           | C622     | 5359-3325851     | CAP, PPP 3300p           | 362      | R636     | 5135-102522  | RES, CBN 1/2P 1K   |
| 332                           | C623     | 5345-S19CM106    | CAP, MINI ELE 10  /16V   | 354      | R637     | 5135-102522  | RES, CBN 1/2P 1K   |
| 332                           | C624     | 5345-S19CM106    | CAP, MINI ELE 10  /16V   | 354      | R638     | 5135-102522  | RES, CBN 1/2P 1K   |
| 339                           | C625     | 5359-5615851     | CAP, PPP 560p            | 367      | R639     | 5174-394381  | RES, MTL 1/4P 390K |
| 339                           | C626     | 5359-5615851     | CAP, PPP 560p            | 367      | R640     | 5174-394381  | RES, MTL 1/4P 390K |
| 331                           | C627     | 5345-S19CM476    | CAP, MINI ELE 47  /16V   | 365      | R643     | 5174-223381  | RES, MTL 1/4P 22K  |
| 331                           | C628     | 5345-S19CM476    | CAP, MINI ELE 47  /16V   | 365      | R644     | 5174-223381  | RES, MTL 1/4P 22K  |
| 392                           | C631     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 369      | R645     | 5174-221381  | RES, MTL 1/4P 220  |
| 392                           | C632     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 369      | R646     | 5174-221381  | RES, MTL 1/4P 220  |
| 392                           | C633     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 369      | R647     | 5174-221381  | RES, MTL 1/4P 220  |
| 392                           | C634     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 369      | R648     | 5174-221381  | RES, MTL 1/4P 220  |
| 330                           | C635     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 346      | R649     | 5135-683522  | RES, CBN 1/2P 68K  |
| 330                           | C636     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 346      | R650     | 5135-683522  | RES, CBN 1/2P 68K  |
| 330                           | C637     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 347      | R651     | 5135-333522  | RES, CBN 1/2P 33K  |
| 330                           | C638     | 5345-227F045     | CAP, MINI ELE 220  /50V  | 347      | R652     | 5135-333522  | RES, CBN 1/2P 33K  |
| 331                           | C639     | 5345-S19CM476    | CAP, MINI ELE 47  /16V   | 348      | R653     | 5135-101522  | RES, CBN 1/2P 100  |
| 331                           | C640     | 5345-S19CM476    | CAP, MINI ELE 47  /16V   | 348      | R654     | 5135-101522  | RES, CBN 1/2P 100  |
| 329                           | C641     | 5345-S19CM336    | CAP, MINI ELE 33  /16V   | 348      | R655     | 5135-101522  | RES, CBN 1/2P 100  |
| 329                           | C642     | 5345-S19CM336    | CAP, MINI ELE 33  /16V   | 348      | R656     | 5135-101522  | RES, CBN 1/2P 100  |
| 338                           | C643     | 5359-8215851     | CAP, PPP 820p            | 355      | R657     | 5135-182522  | RES, CBN 1/2P 1.8K |
| 338                           | C644     | 5359-8215851     | CAP, PPP 820p            | 355      | R658     | 5135-182522  | RES, CBN 1/2P 1.8K |
| 664                           | C645     | 5361-103KB       | CAP, CER .01             | 354      | R659     | 5135-102522  | RES, CBN 1/2P 1K   |
| 664                           | C646     | 5361-103KB       | CAP, CER .01             | 354      | R660     | 5135-102522  | RES, CBN 1/2P 1K   |
| 298                           | C701     | 5345-S19BM226    | CAP, MINI ELE 22  /10V   | 356      | R661     | 5135-470522  | RES, CBN 1/2P 47   |
| 298                           | C702     | 5345-S19BM226    | CAP, MINI ELE 22  /10V   | 356      | R662     | 5135-470522  | RES, CBN 1/2P 47   |
| 298                           | C703     | 5345-S19BM226    | CAP, MINI ELE 22  /10V   | 356      | R663     | 5135-470522  | RES, CBN 1/2P 47   |
| 298                           | C704     | 5345-S19BM226    | CAP, MINI ELE 22  /10V   | 356      | R664     | 5135-470522  | RES, CBN 1/2P 47   |
| 320                           | C705     | 5345-227D041     | CAP, MINI ELE 220  /25V  | 361      | R665     | 5135-331522  | RES, CBN 1/2P 330  |
| 320                           | C706     | 5345-227D041     | CAP, MINI ELE 220  /25V  | 361      | R666     | 5135-331522  | RES, CBN 1/2P 330  |
| 320                           | C707     | 5345-227D041     | CAP, MINI ELE 220  /25V  | 358      | R669     | 5135-104522  | RES, CBN 1/2P 100K |
| 320                           | C708     | 5345-227D041     | CAP, MINI ELE 220  /25V  | 358      | R670     | 5135-104522  | RES, CBN 1/2P 100K |
| 311                           | C709     | 5353-050934      | CAP, MCA 5p              | 348      | R673     | 5135-101522  | RES, CBN 1/2P 100  |
| 311A                          | C709     | 5353-020934      | CAP, MCA 2p              | 348      | R674     | 5135-101522  | RES, CBN 1/2P 100  |
| 311                           | C710     | 5353-050934      | CAP, MCA 5p              | 348      | R675     | 5135-101522  | RES, CBN 1/2P 100  |
| 311A                          | C710     | 5353-020934      | CAP, MCA 2p              | 348      | R676     | 5135-101522  | RES, CBN 1/2P 100  |
| 339                           | C625     | 5359-5615851     | CAP, PPP 560p            | 394      | R677     | 5135-182522  | RES, CBN 1/2P 1.8K |
| 339                           | C625     | 5359-5615851     | CAP, PPP 560p            | 394      | R678     | 5135-182522  | RES, CBN 1/2P 1.8K |
|                               |          | <b>RESISTORS</b> |                          | 395      | R691     | 5135-102522  | RES, CBN 1/2P 1K   |
| 062A                          | R51      | 5135-102522      | RES, CBN 1/2P 1K         | 395      | R692     | 5135-102522  | RES, CBN 1/2P 1K   |
| 062A                          | R52      | 5135-102522      | RES, CBN 1/2P 1K         | 398      | △R693    | 5102-1005116 | RES, FUSE 10       |
| 344                           | R601     | 5135-470522      | RES, CBN 1/2P 47         | 398      | △R694    | 5102-1005116 | RES, FUSE 10       |
| 344A                          | R601     | 5135-102522      | RES, CBN 1/2P 1K         | 301      | R701     | 5135-1R0522  | RES, CBN 1/2P 1    |
| 344                           | R602     | 5135-470522      | RES, CBN 1/2P 47         | 301      | R701     | 5135-5R6522  | RES, CBN 1/2P 5.6  |
| 344A                          | R602     | 5135-102522      | RES, CBN 1/2P 1K         | 301      | R702     | 5135-1R0522  | RES, CBN 1/2P 1    |

| Ser. No. | Ref. No. | Part No.           | Description            | Ser. No. | Ref. No. | Part No.                     | Description                    |
|----------|----------|--------------------|------------------------|----------|----------|------------------------------|--------------------------------|
| 301A     | R702     | 5135-5R6522        | RES, CBN 1/2P 5.6 G GB | 372      | D605     | 5631-1S2473                  | DIODE, DET                     |
| 302      | R703     | 5135-560522        | RES, CBN 1/2P 56       | 372      | D606     | 5631-1S2473                  | DIODE, DET                     |
| 302      | R704     | 5135-560522        | RES, CBN 1/2P 56       | 317      | D701     | 5635-HZ15-2L                 | DIODE, ZENER                   |
| 308      | R705     | 5174-471381        | RES, MTL 1/4P 470      | 317      | D702     | 5635-HZ15-2L                 | DIODE, ZENER                   |
| 308      | R706     | 5174-471381        | RES, MTL 1/4P 470      |          |          | <b>CONTROLS</b>              |                                |
| 308      | R707     | 5174-471381        | RES, MTL 1/4P 470      | 343      | VR601    | 5101-S0401202                | RES, SEMI FIX 2K, PHONO DRIVER |
| 308      | R708     | 5174-471381        | RES, MTL 1/4P 470      | 343      | VR602    | 5101-S0401202                | RES, SEMI FIX 2K, PHONO DRIVER |
| 303      | R709     | 5135-332522        | RES, CBN 1/2P 3.3K     |          |          | <b>MISCELLANEOUS</b>         |                                |
| 303      | R710     | 5135-332522        | RES, CBN 1/2P 3.3K     | 793      | CN701    | 4443-030185                  | CONNECTOR                      |
| 303      | R711     | 5135-332522        | RES, CBN 1/2P 3.3K     | 792      | CW701    | 4163-S0203551                | CONNECTOR W/W                  |
| 303      | R712     | 5135-332522        | RES, CBN 1/2P 3.3K     | 795      | CW702    | 4163-0109040                 | CONNECTOR W/W                  |
| 310      | R713     | 5174-390381        | RES, MTL 1/4P 39       | 065A     | L701     | 5597-3                       | CORE, BEADS G GB               |
| 310      | R714     | 5174-390381        | RES, MTL 1/4P 39       | 065A     | L702     | 5597-3                       | CORE, BEADS G GB               |
| 309      | R715     | 5174-911381        | RES, MTL 1/4P 910      | 065A     | L703     | 5597-3                       | CORE, BEADS G GB               |
| 309      | R716     | 5174-911381        | RES, MTL 1/4P 910      | 065A     | L704     | 5597-3                       | CORE, BEADS G GB               |
| 304      | R717     | 5135-820522        | RES, CBN 1/2P 82       | 658      | PJ1      | 4489-03001004                | PIN JACK, MLT, PHONO MM/MC     |
| 304      | R718     | 5135-820522        | RES, CBN 1/2P 82       | 910      | SW701    | 4431-S0315102                | SWITCH, PUSH, CARTRIDGE        |
| 304      | R719     | 5135-820522        | RES, CBN 1/2P 82       | 794      | TP701    | 4443-027114                  | CONNECTOR                      |
| 304      | R720     | 5135-820522        | RES, CBN 1/2P 82       | 794      | TP702    | 4443-027114                  | CONNECTOR                      |
| 305      | R723     | 5135-562522        | RES, CBN 1/2P 5.6K     |          |          | <b>PCB-2 TONE P.C. BOARD</b> |                                |
| 305      | R724     | 5135-562522        | RES, CBN 1/2P 5.6K     |          |          | <b>CAPACITORS</b>            |                                |
| 306      | R725     | 5135-331522        | RES, CBN 1/2P 330      | 880      | C501     | 5359-1015851                 | CAP, PPP 100p                  |
| 306      | R726     | 5135-331522        | RES, CBN 1/2P 330      | 880      | C502     | 5359-1015851                 | CAP, PPP 100p                  |
| 318      | ▲R727    | 5102-1005116       | RES, FUSE 10           | 880      | C503     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 318      | ▲R728    | 5102-1005116       | RES, FUSE 10           | 811      | C504     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
|          |          | <b>TRANSISTORS</b> |                        | 807      | C505     | 5345-S19BM107                | CAP, MINI ELE 100 μ/10V        |
| 322      | Q601     | 5616-2SK170BL      | FET, N-CH              | 807      | C506     | 5345-S19BM107                | CAP, MINI ELE 100 μ/10V        |
| 322      | Q602     | 5616-2SK170BL      | FET, N-CH              | 814      | C507     | 5353-020934                  | CAP, MCA 2p                    |
| 321      | Q603     | 5615-2SJ74(BL)     | FET, P-CH              | 814      | C508     | 5353-020934                  | CAP, MCA 2p                    |
| 321      | Q604     | 5615-2SJ74(BL)     | FET, P-CH              | 809      | C513     | 5345-S19CM476                | CAP, MINI ELE 47 μ/16V         |
| 326      | Q605     | 5613-1844(E)       | XISTOR, NPN R          | 809      | C514     | 5345-S19CM476                | CAP, MINI ELE 47 μ/16V         |
| 326      | Q606     | 5613-1844(E)       | XISTOR, NPN R          | 810      | C515     | 5345-S19DM226                | CAP, MINI ELE 22 μ/25V         |
| 325      | Q607     | 5611-991(E)        | XISTOR, PNP R          | 810      | C516     | 5345-S19DM226                | CAP, MINI ELE 22 μ/25V         |
| 325      | Q608     | 5611-991(E)        | XISTOR, PNP R          | 818      | C517     | 5354-273J1HM                 | CAP, MYL .027 μ                |
| 323      | Q609     | 5611-999L(F)       | XISTOR, PNP R          | 818      | C518     | 5354-273J1HM                 | CAP, MYL .027 μ                |
| 323      | Q610     | 5611-999L(F)       | XISTOR, PNP R          | 816      | C519     | 5354-154593                  | CAP, MYL .15 μ                 |
| 324      | Q611     | 5613-2320L(F)      | XISTOR, NPN R          | 816      | C520     | 5354-154593                  | CAP, MYL .15 μ                 |
| 324      | Q612     | 5613-2320L(F)      | XISTOR, NPN R          | 819      | C521     | 5354-682J1HM                 | CAP, MYL 6800p                 |
| 323      | Q613     | 5611-999L(F)       | XISTOR, PNP R          | 819      | C522     | 5354-682J1HM                 | CAP, MYL 6800p                 |
| 323      | Q614     | 5611-999L(F)       | XISTOR, PNP R          | 819      | C523     | 5354-393J1HM                 | CAP, MYL .039 μ                |
| 324      | Q615     | 5613-2320L(F)      | XISTOR, NPN R          | 817      | C524     | 5354-393J1HM                 | CAP, MYL .039 μ                |
| 324      | Q616     | 5613-2320L(F)      | XISTOR, NPN R          | 812      | C525     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 327      | Q617     | 5612-646A(C)       | XISTOR, PNP A          | 812      | C526     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 327      | Q618     | 5612-646A(C)       | XISTOR, PNP A          | 879      | C527     | 5354-394593                  | CAP, MYL .39 μ                 |
| 328      | Q619     | 5614-666A(C)       | XISTOR, NPN A          | 879      | C528     | 5354-394593                  | CAP, MYL .39 μ                 |
| 328      | Q620     | 5614-666A(C)       | XISTOR, NPN A          | 881      | C529     | 5359-S010J102                | CAP, PPP 1000p                 |
| 324      | Q625     | 5613-2320L(F)      | XISTOR, NPN R          | 844      | C531     | 5359-3315851                 | CAP, PPP 330p                  |
| 328      | Q627     | 5614-666A(C)       | XISTOR, NPN A          | 844      | C532     | 5359-3315851                 | CAP, PPP 330p                  |
| 327      | Q628     | 5614-666A(C)       | XISTOR, NPN A          | 838      | C561     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 327      | Q629     | 5612-646A(C)       | XISTOR, PNP A          | 838      | C562     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 327      | Q630     | 5612-646A(C)       | XISTOR, PNP A          | 837      | C563     | 5345-107C041                 | CAP, MINI ELE 100 μ/16V        |
| 384      | Q635     | 5612-941(P)        | XISTOR, PNP A          | 837      | C564     | 5345-107C041                 | CAP, MINI ELE 100 μ/16V        |
| 385      | Q636     | 5614-1266(P)       | XISTOR, NPN A          | 841      | C565     | 5354-104593                  | CAP, MYL .1 μ                  |
| 387      | Q637     | 5613-2320L(F)      | XISTOR, NPN R          | 841      | C566     | 5354-104593                  | CAP, MYL .1 μ                  |
| 386      | Q638     | 5611-999L(F)       | XISTOR, PNP R          | 841      | C567     | 5354-104593                  | CAP, MYL .1 μ                  |
| 292      | Q701     | 5613-1844(E)       | XISTOR, NPN R          | 841      | C568     | 5354-104593                  | CAP, MYL .1 μ                  |
| 292      | Q702     | 5613-1844(E)       | XISTOR, NPN R          | 843      | C569     | 5353-050934                  | CAP, MCA 5p                    |
| 292      | Q703     | 5613-1844(E)       | XISTOR, NPN R          | 843      | C570     | 5353-050934                  | CAP, MCA 5p                    |
| 292      | Q704     | 5613-1844(E)       | XISTOR, NPN R          | 839      | C571     | 5345-S19FM225                | CAP, MINI ELE 2.2 μ/50V        |
| 291      | Q705     | 5611-991(E)        | XISTOR, PNP R          | 839      | C572     | 5345-S19FM225                | CAP, MINI ELE 2.2 μ/50V        |
| 291      | Q706     | 5611-991(E)        | XISTOR, PNP R          | 836      | C573     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 291      | Q707     | 5611-991(E)        | XISTOR, PNP R          | 836      | C574     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 291      | Q708     | 5611-991(E)        | XISTOR, PNP R          | 869      | C901     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 293      | Q709     | 5611-999L(F)       | XISTOR, PNP R          | 869      | C902     | 5345-227F045                 | CAP, MINI ELE 220 μ/50V        |
| 293      | Q710     | 5611-999L(F)       | XISTOR, PNP R          | 870      | C903     | 5345-476F041                 | CAP, MINI ELE 47 μ/50V         |
| 294      | Q711     | 5613-2320L(F)      | XISTOR, NPN R          | 870      | C904     | 5345-476F041                 | CAP, MINI ELE 47 μ/50V         |
| 294      | Q712     | 5613-2320L(F)      | XISTOR, NPN R          | 878      | C914     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 315      | Q713     | 5614-667A(C)       | XISTOR, NPN A          | 878      | C915     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 314      | Q714     | 5612-647A(C)       | XISTOR, PNP A          | 878      | C916     | 5345-S19CM106                | CAP, MINI ELE 10 μ/16V         |
| 316      | Q715     | 5616-SK246GR2      | FET, N-CH              | 886      | R501     | 5135-331522                  | RES, CBN 1/2P 330              |
| 316      | Q716     | 5616-SK246GR2      | FET, N-CH              | 886      | R502     | 5135-331522                  | RES, CBN 1/2P 330              |
|          |          | <b>DIODES</b>      |                        | 821      | R505     | 5135-274522                  | RES, CBN 1/2P 270K             |
| 389      | D601     | 5635-HZ24-1L       | DIODE, ZENER           | 821      | R506     | 5135-274522                  | RES, CBN 1/2P 270K             |
| 389      | D602     | 5635-HZ24-1L       | DIODE, ZENER           | 828      | R507     | 5135-331522                  | RES, CBN 1/2P 330              |
| 372      | D603     | 5631-1S2473        | DIODE, DET             |          |          |                              |                                |
| 372      | D604     | 5631-1S2473        | DIODE, DET             |          |          |                              |                                |

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|----------|----------|--------------|--------------------|----------|----------|---------------|--------------------|
| 828      | R508     | 5135-331522  | RES, CBN 1/2P 330  | 855      | R587     | 5135-471522   | RES, CBN 1/2P 470  |
| 826      | R509     | 5135-182522  | RES, CBN 1/2P 1.8K | 855      | R588     | 5135-471522   | RES, CBN 1/2P 470  |
| 826      | R510     | 5135-182522  | RES, CBN 1/2P 1.8K | 850      | R589     | 5232-682J16P  | RES, CBN 1/6P 6.8K |
| 826      | R511     | 5135-182522  | RES, CBN 1/2P 1.8K | 852      | R590     | 5135-682522   | RES, CBN 1/2P 6.8K |
| 826      | R512     | 5135-182522  | RES, CBN 1/2P 1.8K | 840      | R591     | 5232-331J16P  | RES, CBN 1/6P 330  |
| 829      | R513     | 5135-271522  | RES, CBN 1/2P 270  | 856      | R592     | 5135-331522   | RES, CBN 1/2P 330  |
| 829      | R514     | 5135-271522  | RES, CBN 1/2P 270  | 846      | R593     | 5135-104522   | RES, CBN 1/2P 100K |
| 829      | R515     | 5135-271522  | RES, CBN 1/2P 270  | 846      | R594     | 5135-104522   | RES, CBN 1/2P 100K |
| 829      | R516     | 5135-271522  | RES, CBN 1/2P 270  | 859      | △R595    | 5102-2205116  | RES, FUSE 22       |
| 824      | R517     | 5135-103522  | RES, CBN 1/2P 10K  | 859      | △R596    | 5102-2205116  | RES, FUSE 22       |
| 824      | R518     | 5135-103522  | RES, CBN 1/2P 10K  | 845      | R597     | 5135-224522   | RES, CBN 1/2P 220K |
| 826      | R519     | 5135-182522  | RES, CBN 1/2P 1.8K | 845      | R598     | 5135-224522   | RES, CBN 1/2P 220K |
| 826      | R520     | 5135-182522  | RES, CBN 1/2P 1.8K | 840      | R599     | 5232-331J16P  | RES, CBN 1/6P 330  |
| 826      | R521     | 5135-182522  | RES, CBN 1/2P 1.8K | 840      | R600     | 5232-331J16P  | RES, CBN 1/6P 330  |
| 826      | R522     | 5135-182522  | RES, CBN 1/2P 1.8K | 876      | △R901    | 5102-2R25116  | RES, FUSE 2.2      |
| 829      | R523     | 5135-271522  | RES, CBN 1/2P 270  | 876      | △R902    | 5102-2R25116  | RES, FUSE 2.2      |
| 829      | R524     | 5135-271522  | RES, CBN 1/2P 270  | 873      | R903     | 5135-331522   | RES, CBN 1/2P 330  |
| 829      | R525     | 5135-271522  | RES, CBN 1/2P 270  | 873      | R904     | 5135-331522   | RES, CBN 1/2P 330  |
| 829      | R526     | 5135-271522  | RES, CBN 1/2P 270  | 872      | R905     | 5135-222522   | RES, CBN 1/2P 2.2K |
| 824      | R527     | 5135-103522  | RES, CBN 1/2P 10K  | 872      | R906     | 5135-222522   | RES, CBN 1/2P 2.2K |
| 824      | R528     | 5135-103522  | RES, CBN 1/2P 10K  | 877      | △R907    | 5102-1005116  | RES, FUSE 10       |
| 828      | R529     | 5135-331522  | RES, CBN 1/2P 330  | 877      | △R908    | 5102-1005116  | RES, FUSE 10       |
| 828      | R530     | 5135-331522  | RES, CBN 1/2P 330  | 875      | R910     | 5135-220522   | RES, CBN 1/2P 22   |
| 830      | R531     | 5135-682522  | RES, CBN 1/2P 6.8K | 883      | R911     | 5135-333522   | RES, CBN 1/2P 33K  |
| 830      | R532     | 5135-682522  | RES, CBN 1/2P 6.8K | 884      | R912     | 5135-682522   | RES, CBN 1/2P 6.8K |
| 821      | R533     | 5135-274522  | RES, CBN 1/2P 270K | 887      | R913     | 5135-331522   | RES, CBN 1/2P 330  |
| 821      | R534     | 5135-274522  | RES, CBN 1/2P 270K | 887      | R914     | 5135-331522   | RES, CBN 1/2P 330  |
| 822      | R535     | 5135-473522  | RES, CBN 1/2P 47K  | 885      | R916     | 5135-223522   | RES, CBN 1/2P 22K  |
| 822      | R536     | 5135-473522  | RES, CBN 1/2P 47K  | 874      | R917     | 5135-101522   | RES, CBN 1/2P 100  |
| 823      | R537     | 5135-153522  | RES, CBN 1/2P 15K  | 874      | R918     | 5135-101522   | RES, CBN 1/2P 100  |
| 823      | R538     | 5135-153522  | RES, CBN 1/2P 15K  | 883      | R926     | 5135-333522   | RES, CBN 1/2P 33K  |
| 825      | R539     | 5135-272522  | RES, CBN 1/2P 2.7K | 888      | R931     | 5135-105522   | RES, CBN 1/2P 1M   |
| 825      | R540     | 5135-272522  | RES, CBN 1/2P 2.7K | 888      | R932     | 5135-105522   | RES, CBN 1/2P 1M   |
| 823      | R541     | 5135-153522  | RES, CBN 1/2P 15K  | 871      | R933     | 5135-394522   | RES, CBN 1/2P 390K |
| 823      | R542     | 5135-153522  | RES, CBN 1/2P 15K  | 871      | R934     | 5135-394522   | RES, CBN 1/2P 390K |
| 825      | R543     | 5135-272522  | RES, CBN 1/2P 2.7K | 849      | R935     | 5232-220J16P  | RES, CBN 1/6P 22   |
| 825      | R544     | 5135-272522  | RES, CBN 1/2P 2.7K | 828      | R941     | 5135-331522   | RES, CBN 1/2P 330  |
| 827      | R545     | 5135-122522  | RES, CBN 1/2P 1.2K | 828      | R942     | 5135-331522   | RES, CBN 1/2P 330  |
| 827      | R546     | 5135-122522  | RES, CBN 1/2P 1.2K |          |          |               | <b>TRANSISTORS</b> |
| 815      | R547     | 5135-121522  | RES, CBN 1/2P 120  | 801      | Q501     | 5613-2240(BL) | XISTOR, NPN R      |
| 815      | R548     | 5135-121522  | RES, CBN 1/2P 120  | 801      | Q502     | 5613-2240(BL) | XISTOR, NPN R      |
| 828      | R549     | 5135-331522  | RES, CBN 1/2P 330  | 801      | Q503     | 5613-2240(BL) | XISTOR, NPN R      |
| 828      | R550     | 5135-331522  | RES, CBN 1/2P 330  | 801      | Q504     | 5613-2240(BL) | XISTOR, NPN R      |
| 828      | R551     | 5135-331522  | RES, CBN 1/2P 330  | 802      | Q505     | 5611-970(BL)  | XISTOR, PNP R      |
| 828      | R552     | 5135-331522  | RES, CBN 1/2P 330  | 802      | Q506     | 5611-970(BL)  | XISTOR, PNP R      |
| 820      | △R553    | 5102-2R25116 | RES, FUSE 2.2      | 802      | Q507     | 5611-970(BL)  | XISTOR, PNP R      |
| 820      | △R554    | 5102-2R25116 | RES, FUSE 2.2      | 802      | Q508     | 5611-970(BL)  | XISTOR, PNP R      |
| 830      | R555     | 5135-682522  | RES, CBN 1/2P 6.8K | 803      | Q509     | 5613-2320L(F) | XISTOR, NPN R      |
| 830      | R556     | 5135-682522  | RES, CBN 1/2P 6.8K | 803      | Q510     | 5613-2320L(F) | XISTOR, NPN R      |
| 848      | R557     | 5135-153522  | RES, CBN 1/2P 15K  | 804      | Q511     | 5611-999L(F)  | XISTOR, PNP R      |
| 848      | R558     | 5135-153522  | RES, CBN 1/2P 15K  | 804      | Q512     | 5611-999L(F)  | XISTOR, PNP R      |
| 828      | R559     | 5135-331522  | RES, CBN 1/2P 330  | 806      | Q513     | 5612-646A(C)  | XISTOR, PNP A      |
| 828      | R560     | 5135-331522  | RES, CBN 1/2P 330  | 806      | Q514     | 5612-646A(C)  | XISTOR, PNP A      |
| 846      | R561     | 5135-104522  | RES, CBN 1/2P 100K | 805      | Q515     | 5614-666A(C)  | XISTOR, NPN A      |
| 846      | R562     | 5135-104522  | RES, CBN 1/2P 100K | 805      | Q516     | 5614-666A(C)  | XISTOR, NPN A      |
| 852      | R563     | 5135-682522  | RES, CBN 1/2P 6.8K | 866      | Q517     | 5616-2SK364BL | FET,N-CH           |
| 852      | R564     | 5135-682522  | RES, CBN 1/2P 6.8K | 866      | Q518     | 5616-2SK364BL | FET,N-CH           |
| 848      | R567     | 5135-153522  | RES, CBN 1/2P 15K  | 833      | Q561     | 5613-2320L(F) | XISTOR, NPN R      |
| 848      | R568     | 5135-153522  | RES, CBN 1/2P 15K  | 833      | Q562     | 5613-2320L(F) | XISTOR, NPN R      |
| 858      | R569     | 5135-102522  | RES, CBN 1/2P 1K   | 834      | Q563     | 5611-999L(F)  | XISTOR, PNP R      |
| 858      | R570     | 5135-102522  | RES, CBN 1/2P 1K   | 834      | Q564     | 5611-999L(F)  | XISTOR, PNP R      |
| 851      | R571     | 5135-122522  | RES, CBN 1/2P 1.2K | 832      | Q565     | 5611-970(BL)  | XISTOR, PNP R      |
| 851      | R572     | 5135-122522  | RES, CBN 1/2P 1.2K | 832      | Q566     | 5611-970(BL)  | XISTOR, PNP R      |
| 852      | R573     | 5135-682522  | RES, CBN 1/2P 6.8K | 831      | Q567     | 5613-2240(BL) | XISTOR, NPN R      |
| 852      | R574     | 5135-682522  | RES, CBN 1/2P 6.8K | 831      | Q568     | 5613-2240(BL) | XISTOR, NPN R      |
| 847      | R575     | 5135-273522  | RES, CBN 1/2P 27K  | 833      | Q569     | 5613-2320L(F) | XISTOR, NPN R      |
| 847      | R576     | 5135-273522  | RES, CBN 1/2P 27K  | 833      | Q570     | 5613-2320L(F) | XISTOR, NPN R      |
| 848      | R577     | 5135-153522  | RES, CBN 1/2P 15K  | 862      | Q901     | 5612-941(Q)   | XISTOR, PNP A      |
| 848      | R578     | 5135-153522  | RES, CBN 1/2P 15K  | 861      | Q902     | 5614-1266(Q)  | XISTOR, NPN A      |
| 854      | R579     | 5135-272522  | RES, CBN 1/2P 2.7K | 863      | Q903     | 5613-2320L(F) | XISTOR, NPN R      |
| 854      | R580     | 5135-272522  | RES, CBN 1/2P 2.7K | 864      | Q904     | 5611-999L(F)  | XISTOR, PNP R      |
| 857      | R581     | 5135-101522  | RES, CBN 1/2P 100  | 865      | Q911     | 5611-RN2203   | XISTOR, PNP R      |
| 857      | R582     | 5135-101522  | RES, CBN 1/2P 100  | 865      | Q912     | 5611-RN2203   | XISTOR, PNP R      |
| 854      | R583     | 5135-272522  | RES, CBN 1/2P 2.7K | 863      | Q913     | 5613-2320L(F) | XISTOR, NPN R      |
| 854      | R584     | 5135-272522  | RES, CBN 1/2P 2.7K | 863      | Q914     | 5613-2320L(F) | XISTOR, NPN R      |
| 848      | R585     | 5135-153522  | RES, CBN 1/2P 15K  |          |          |               | <b>DIODES</b>      |
| 848      | R586     | 5135-153522  | RES, CBN 1/2P 15K  | 868      | D501     | 5631-1S2473   | DIODE, DET         |

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|---------------------------------|----------|---------------|--------------------------------------|---------------|----------|---------------|-----------------------|
| 868                             | D502     | 5631-1S2473   | DIODE, DET                           | 959           | R811     | 5135-102522   | RES, CBN 1/2P 1K      |
| 867                             | D901     | 5635-HZ24-1L  | DIODE, ZENER                         | 959           | R812     | 5135-102522   | RES, CBN 1/2P 1K      |
| 867                             | D902     | 5635-HZ24-1L  | DIODE, ZENER                         | 959           | R813     | 5135-102522   | RES, CBN 1/2P 1K      |
| 908                             | D914     | 5637-LT3E47L  | LED, PHASE CORRECT LOUDNESS          | 959           | R814     | 5135-102522   | RES, CBN 1/2P 1K      |
| 908                             | D915     | 5637-LT3E47L  | LED, SUBSONIC                        | 959           | R815     | 5135-102522   | RES, CBN 1/2P 1K      |
| 908                             | D916     | 5637-LT3E47L  | LED, TONE DEFEAT                     | 959           | R816     | 5135-102522   | RES, CBN 1/2P 1K      |
| <b>CONTROLS</b>                 |          |               |                                      | 959           | R817     | 5135-102522   | RES, CBN 1/2P 1K      |
| 898                             | VR501    | 5113-S0901503 | RES, V CBN 16 50K, BALANCE           | 959           | R818     | 5135-102522   | RES, CBN 1/2P 1K      |
|                                 | /502     |               |                                      | 959           | R819     | 5135-102522   | RES, CBN 1/2P 1K      |
| 902                             | VR505    | 5113-S0903104 | RES, V CBN 16 100K, BASS             | 959           | R820     | 5135-102522   | RES, CBN 1/2P 1K      |
|                                 | /506     |               |                                      | 959           | R821     | 5135-102522   | RES, CBN 1/2P 1K      |
| 900                             | VR507    | 5113-S0902503 | RES, V CBN 16 50K, TREBLE            | 959           | R822     | 5135-102522   | RES, CBN 1/2P 1K      |
|                                 | /508     |               |                                      | 959           | R823     | 5135-102522   | RES, CBN 1/2P 1K      |
| <b>MISCELLANEOUS</b>            |          |               |                                      | 959           | R824     | 5135-102522   | RES, CBN 1/2P 1K      |
| 774                             | CN503    | 4443-0701141  | CONNECTOR                            | 964           | R825     | 5232-224J16P  | RES, CBN 1/6P 220K    |
| 777                             | CN504    | 4443-0501141  | CONNECTOR                            | 964           | R826     | 5232-224J16P  | RES, CBN 1/6P 220K    |
| 778                             | CN505    | 4443-1001141  | CONNECTOR                            | 964           | R827     | 5232-224J16P  | RES, CBN 1/6P 220K    |
| 798                             | CN510    | 4443-C301141  | CONNECTOR                            | 975           | R828     | 5232-124J16P  | RES, CBN 1/6P 120K    |
| 787                             | CW504    | 4163-S0204351 | CONNECTOR W/W                        | 963           | R829     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 788                             | CW505    | 4163-S0203301 | CONNECTOR W/W                        | 963           | R830     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 790                             | CW506    | 4163-0150039  | CONNECTOR W/W                        | 963           | R831     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 791                             | CW507    | 4163-0140020  | CONNECTOR W/W                        | 963           | R832     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 772                             | CW508    | 4163-S0202501 | CONNECTOR W/W                        | 963           | R833     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 796                             | CW703    | 4163-0160039  | CONNECTOR W/W                        | 963           | R834     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 780                             | CW803    | 4163-0155020  | CONNECTOR W/W                        | 963           | R835     | 5232-105J16P  | RES, CBN 1/6P 1M      |
| 781                             | CW804    | 4163-0150020  | CONNECTOR W/W                        | 965           | R836     | 5232-104J16P  | RES, CBN 1/6P 100K    |
| 882                             | RC802    | 5212-104J0401 | R COMPOSITE 100K                     | 965           | R837     | 5232-104J16P  | RES, CBN 1/6P 100K    |
| 891                             | SW501    | 4411-00303205 | SWITCH, ROTARY, SOURCE               | 965           | R838     | 5232-104J16P  | RES, CBN 1/6P 100K    |
| 891                             | SW502    | 4411-00303205 | SWITCH, ROTARY, RECORD OUT           | 649           | ▲R839    | 5102-2205116  | RES, FUSE 22          |
| 893                             | SW503    | 4411-00304203 | SWITCH, ROTARY, TAPE MONITOR         | 650           | R840     | 5135-272522   | RES, CBN 1/2P 2.7K    |
| 906                             | SW504    | 4431-S1303210 | SWITCH, PUSH, TONE DEFEAT            | 650           | R841     | 5135-272522   | RES, CBN 1/2P 2.7K    |
| 906                             | SW505    | 4431-S1303210 | SWITCH, PUSH, SUBSONIC               | 649           | ▲R842    | 5102-2205116  | RES, FUSE 22          |
| 905                             | SW506    | 4431-S1306106 | SWITCH, PUSH, PHASE CORRECT LOUDNESS | 962           | R843     | 5135-223522   | RES, CBN 1/2P 22K     |
| <b>PCB-3 CONTROL P.C. BOARD</b> |          |               |                                      | 070A          | R851     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| <b>CAPACITORS</b>               |          |               |                                      | 070A          | R852     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C71      | 5359-3315851  | CAP, PPP 330p G GB                   | 070A          | R853     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C72      | 5359-3315851  | CAP, PPP 330p G GB                   | 070A          | R854     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C73      | 5359-3315851  | CAP, PPP 330p G GB                   | 966           | R855     | 5232-100J16P  | RES, CBN 1/6P 10      |
| 068A                            | C74      | 5359-3315851  | CAP, PPP 330p G GB                   | 070A          | R856     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C75      | 5359-3315851  | CAP, PPP 330p G GB                   | 070A          | R857     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C76      | 5359-3315851  | CAP, PPP 330p G GB                   | 070A          | R858     | 5232-102J16P  | RES, CBN 1/6P 1K G GB |
| 068A                            | C77      | 5359-3315851  | CAP, PPP 330p G GB                   | 973           | R887     | 5232-223J16P  | RES, CBN 1/6P 22K     |
| <b>INTEGRATED CIRCUIT</b>       |          |               |                                      | 928           | IC801    | 5654-LC7818   | IC, DIGITAL           |
| <b>TRANSISTORS</b>              |          |               |                                      | 936           | Q801     | 5616-2SK246BL | FET, N-CH             |
| 946                             | C801     | 5359-S010J102 | CAP, PPP 1000p                       | 936           | Q802     | 5616-2SK246BL | FET, N-CH             |
| 946                             | C802     | 5359-S010J102 | CAP, PPP 1000p                       | 936           | Q803     | 5616-2SK246BL | FET, N-CH             |
| 946                             | C803     | 5359-S010J102 | CAP, PPP 1000p                       | 936           | Q804     | 5616-2SK246BL | FET, N-CH             |
| 946                             | C804     | 5359-S010J102 | CAP, PPP 1000p                       | 935           | Q805     | 5616-2SK364V  | FET, N-CH             |
| 947                             | C805     | 5354-104593   | CAP, MYL .1                          | 935           | Q806     | 5616-2SK364V  | FET, N-CH             |
| 947                             | C806     | 5354-104593   | CAP, MYL .1                          | 935           | Q807     | 5616-2SK364V  | FET, N-CH             |
| 947                             | C807     | 5354-104593   | CAP, MYL .1                          | 935           | Q808     | 5616-2SK364V  | FET, N-CH             |
| 944                             | C808     | 5345-S19DM106 | CAP, MINI ELE 10μ/25V                | 936           | Q809     | 5616-2SK246BL | FET, N-CH             |
| 940                             | C809     | 5345-S19DM106 | CAP, MINI ELE 10μ/25V                | 936           | Q810     | 5616-2SK246BL | FET, N-CH             |
| 945                             | C811     | 5345-S19FM104 | CAP, MINI ELE .1μ/50V                | 936           | Q811     | 5616-2SK246BL | FET, N-CH             |
| 647                             | C812     | 5345-107D041  | CAP, MINI ELE 100μ/25V               | 936           | Q812     | 5616-2SK246BL | FET, N-CH             |
| 647                             | C813     | 5345-107D041  | CAP, MINI ELE 100μ/25V               | 935           | Q813     | 5616-2SK364V  | FET, N-CH             |
| 647                             | C814     | 5345-107D041  | CAP, MINI ELE 100μ/25V               | 935           | Q814     | 5616-2SK364V  | FET, N-CH             |
| 647                             | C815     | 5345-107D041  | CAP, MINI ELE 100μ/25V               | 936           | Q815     | 5616-2SK246BL | FET, N-CH             |
| 944                             | C816     | 5345-S19DM106 | CAP, MINI ELE 10μ/25V                | 936           | Q816     | 5616-2SK246BL | FET, N-CH             |
| 944                             | C817     | 5345-S19DM106 | CAP, MINI ELE 10μ/25V                | 936           | Q817     | 5616-2SK246BL | FET, N-CH             |
| 665                             | C863     | 5361-103KB    | CAP, CER .01μ                        | 936           | Q818     | 5616-2SK246BL | FET, N-CH             |
| 665                             | C864     | 5361-103KB    | CAP, CER .01μ                        | 645           | Q819     | 5614-667A(C)  | XISTOR, NPN A         |
| 665                             | C865     | 5361-103KB    | CAP, CER .01μ                        | 644           | Q820     | 5612-647A(C)  | XISTOR, PNP A         |
| 665                             | C868     | 5361-103KB    | CAP, CER .01μ                        | 933           | Q861     | 5611-933SS(S) | XISTOR, PNP R         |
| <b>RESISTORS</b>                |          |               |                                      | <b>DIODES</b> |          |               |                       |
| 959                             | R801     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D801     | 5631-1SS133   | DIODE, DET            |
| 959                             | R802     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D802     | 5631-1SS133   | DIODE, DET            |
| 959                             | R803     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D803     | 5631-1SS133   | DIODE, DET            |
| 959                             | R804     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D804     | 5631-1SS133   | DIODE, DET            |
| 959                             | R805     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D805     | 5631-1SS133   | DIODE, DET            |
| 959                             | R806     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D806     | 5631-1SS133   | DIODE, DET            |
| 959                             | R807     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D807     | 5631-1SS133   | DIODE, DET            |
| 959                             | R808     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D808     | 5631-1SS133   | DIODE, DET            |
| 959                             | R809     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D809     | 5631-1SS133   | DIODE, DET            |
| 959                             | R810     | 5135-102522   | RES, CBN 1/2P 1K                     | 939           | D810     | 5631-1SS133   | DIODE, DET            |

| Ser. No.                       | Ref. No. | Part No.      | Description                  | Ser. No. | Ref. No. | Part No.     | Description        |
|--------------------------------|----------|---------------|------------------------------|----------|----------|--------------|--------------------|
| 939                            | D811     | 5631-1SS133   | DIODE, DET                   | 491      | R15      | 5135-103522  | RES, CBN 1/2P 10K  |
| 939                            | D812     | 5631-1SS133   | DIODE, DET                   | 491      | R16      | 5135-103522  | RES, CBN 1/2P 10K  |
| 939                            | D813     | 5631-1SS133   | DIODE, DET                   | 495      | R17      | 5135-473522  | RES, CBN 1/2P 47K  |
| 939                            | D814     | 5631-1SS133   | DIODE, DET                   | 488      | R18      | 5135-223522  | RES, CBN 1/2P 22K  |
| 939                            | D815     | 5631-1SS133   | DIODE, DET                   | 488      | R19      | 5135-223522  | RES, CBN 1/2P 22K  |
| 939                            | D816     | 5631-1SS133   | DIODE, DET                   | 495      | R20      | 5135-473522  | RES, CBN 1/2P 47K  |
| 939                            | D817     | 5631-1SS133   | DIODE, DET                   | 490      | R21      | 5135-104522  | RES, CBN 1/2P 100K |
| 939                            | D818     | 5631-1SS133   | DIODE, DET                   | 487      | R25      | 5135-105522  | RES, CBN 1/2P 1M   |
| 939                            | D819     | 5631-1SS133   | DIODE, DET                   | 487      | R26      | 5135-105522  | RES, CBN 1/2P 1M   |
| 939                            | D820     | 5631-1SS133   | DIODE, DET                   | 488      | R27      | 5135-223522  | RES, CBN 1/2P 22K  |
| 646                            | D821     | 5635-HZ20-1L  | DIODE, ZENER                 | 486      | △R34     | 5102-1015116 | RES, FUSE 100      |
| 646                            | D822     | 5635-HZ20-1L  | DIODE, ZENER                 | 460      | R401     | 5135-102522  | RES, CBN 1/2P 1K   |
| <b>MISCELLANEOUS</b>           |          |               |                              | 460      | R402     | 5135-102522  | RES, CBN 1/2P 1K   |
| 779                            | CN502    | 4443-030185   | CONNECTOR                    | 451      | R403     | 5135-273522  | RES, CBN 1/2P 27K  |
| 773                            | CW802    | 4163-S0203901 | CONNECTOR W/W                | 451      | R404     | 5135-273522  | RES, CBN 1/2P 27K  |
| 783                            | CW805    | 4163-S0207551 | CONNECTOR W/W                | 457      | R405     | 5135-151522  | RES, CBN 1/2P 150  |
| 784                            | CW806    | 4163-S0205451 | CONNECTOR W/W                | 457      | R406     | 5135-151522  | RES, CBN 1/2P 150  |
| 785                            | CW807    | 4163-S0210401 | CONNECTOR W/W                | 459      | R407     | 5135-330522  | RES, CBN 1/2P 33   |
| 659                            | PJ3      | 4489-02901004 | PIN JACK, MLT, TUNER/CD      | 459      | R408     | 5135-330522  | RES, CBN 1/2P 33   |
| 659                            | PJ4      | 4489-02901004 | PIN JACK, MLT, VIDEO/AUX     | 462      | R409     | 5135-103522  | RES, CBN 1/2P 10K  |
| 659                            | PJ5      | 4489-02901004 | PIN JACK, MLT, TAPE 1 IN/OUT | 462      | R410     | 5135-103522  | RES, CBN 1/2P 10K  |
| 659                            | PJ6      | 4489-02901004 | PIN JACK, MLT, TAPE 2 IN/OUT | 459      | R411     | 5135-330522  | RES, CBN 1/2P 33   |
| 948                            | RC801    | 5212-223J0601 | R COMPOSITE                  | 459      | R412     | 5135-330522  | RES, CBN 1/2P 33   |
| <b>PCB-4 DRIVER P.C. BOARD</b> |          |               |                              | 456      | R413     | 5135-221522  | RES, CBN 1/2P 220  |
| <b>CAPACITORS</b>              |          |               |                              | 456      | R414     | 5135-221522  | RES, CBN 1/2P 220  |
| 482                            | C13      | 5354-332J1HM  | CAP, MYL 3300p               | 454      | R415     | 5135-154522  | RES, CBN 1/2P 150K |
| 480                            | C15      | 5354-334593   | CAP, MYL .33μ                | 454      | R416     | 5135-154522  | RES, CBN 1/2P 150K |
| 483                            | C16      | 5345-S19CM336 | CAP, MINI ELE 33 μ/16V       | 452      | R418     | 5135-563522  | RES, CBN 1/2P 56K  |
| 480                            | C17      | 5354-334593   | CAP, MYL .33μ                | 455      | R419     | 5135-105522  | RES, CBN 1/2P 1M   |
| 484                            | C18      | 5345-S19FM105 | CAP, MINI ELE 1 μ/50V        | 455      | R420     | 5135-105522  | RES, CBN 1/2P 1M   |
| 485                            | C19      | 5345-105J0962 | CAP, MINI ELE 1 μ/100V       | 454      | R421     | 5135-154522  | RES, CBN 1/2P 150K |
| 476                            | C24      | 5345-226D041  | CAP, MINI ELE 22 μ/25V       | 454      | R422     | 5135-154522  | RES, CBN 1/2P 150K |
| 481                            | C26      | 5354-104593   | CAP, MYL .1μ                 | 454      | R424     | 5135-154522  | RES, CBN 1/2P 150K |
| 434                            | C405     | 5354-104593   | CAP, MYL .1μ                 | 455      | R425     | 5135-105522  | RES, CBN 1/2P 1M   |
| 434                            | C406     | 5354-104593   | CAP, MYL .1μ                 | 455      | R426     | 5135-105522  | RES, CBN 1/2P 1M   |
| 434                            | C407     | 5354-104593   | CAP, MYL .1μ                 | 460      | R427     | 5135-102522  | RES, CBN 1/2P 1K   |
| 434                            | C408     | 5354-104593   | CAP, MYL .1μ                 | 460      | R428     | 5135-102522  | RES, CBN 1/2P 1K   |
| 437A                           | C409     | 5353-100534   | CAP, MCA 10p                 | 460      | R429     | 5135-102522  | RES, CBN 1/2P 1K   |
| 437A                           | C410     | 5353-100534   | CAP, MCA 10p                 | 460      | R430     | 5135-102522  | RES, CBN 1/2P 1K   |
| 430                            | C413     | 5345-S19CM225 | CAP, MINI ELE 2.2 μ/16V      | 463      | R431     | 5135-151522  | RES, CBN 1/2P 150  |
| 430                            | C414     | 5345-S19CM225 | CAP, MINI ELE 2.2 μ/16V      | 463      | R432     | 5135-151522  | RES, CBN 1/2P 150  |
| 429                            | C415     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 448      | R433     | 5174-390381  | RES, MTL 1/4P 39   |
| 429                            | C416     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 448      | R434     | 5174-390381  | RES, MTL 1/4P 39   |
| 429                            | C417     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 463      | R435     | 5135-151522  | RES, CBN 1/2P 150  |
| 429                            | C418     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 463      | R436     | 5135-151522  | RES, CBN 1/2P 150  |
| 429                            | C419     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 461      | R437     | 5135-331522  | RES, CBN 1/2P 330  |
| 429                            | C420     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 461      | R438     | 5135-331522  | RES, CBN 1/2P 330  |
| 429                            | C421     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 453      | R439     | 5135-563522  | RES, CBN 1/2P 56K  |
| 429                            | C422     | 5345-227D041  | CAP, MINI ELE 220 μ/25V      | 453      | R440     | 5135-563522  | RES, CBN 1/2P 56K  |
| 431                            | C423     | 5345-477J0962 | CAP, MINI ELE 470 μ/100V     | 463      | R441     | 5135-151522  | RES, CBN 1/2P 150  |
| 431                            | C424     | 5345-477J0962 | CAP, MINI ELE 470 μ/100V     | 463      | R442     | 5135-151522  | RES, CBN 1/2P 150  |
| 431                            | C425     | 5345-477J0962 | CAP, MINI ELE 470 μ/100V     | 453      | R443     | 5135-563522  | RES, CBN 1/2P 56K  |
| 431                            | C426     | 5345-477J0962 | CAP, MINI ELE 470 μ/100V     | 453      | R444     | 5135-563522  | RES, CBN 1/2P 56K  |
| 438                            | C431     | 5359-8205851  | CAP, PPP 82p                 | 445      | △R445    | 5102-4714713 | RES, FUSE 470      |
| 438                            | C432     | 5359-8205851  | CAP, PPP 82p                 | 445      | △R446    | 5102-4714713 | RES, FUSE 470      |
| 438                            | C433     | 5359-8205851  | CAP, PPP 82p                 | 463      | R447     | 5135-151522  | RES, CBN 1/2P 150  |
| 438                            | C434     | 5359-8205851  | CAP, PPP 82p                 | 463      | R448     | 5135-151522  | RES, CBN 1/2P 150  |
| 436                            | C435     | 5353-680534   | CAP, MCA 68p                 | 460      | R449     | 5135-102522  | RES, CBN 1/2P 1K   |
| 436                            | C436     | 5353-680534   | CAP, MCA 68p                 | 460      | R450     | 5135-102522  | RES, CBN 1/2P 1K   |
| 437A                           | C437     | 5353-100534   | CAP, MCA 10p                 | 461      | R451     | 5135-331522  | RES, CBN 1/2P 330  |
| 437A                           | C438     | 5353-100534   | CAP, MCA 10p                 | 461      | R452     | 5135-331522  | RES, CBN 1/2P 330  |
| 433                            | C469     | 5345-S19CM106 | CAP, MINI ELE 10 μ/16V       | 445      | △R453    | 5102-4714713 | RES, FUSE 470      |
| 433                            | C470     | 5345-S19CM106 | CAP, MINI ELE 10 μ/16V       | 445      | △R454    | 5102-4714713 | RES, FUSE 470      |
| <b>RESISTORS</b>               |          |               |                              | 444      | △R455    | 5102-5604713 | RES, FUSE 56       |
| 495                            | R1       | 5135-473522   | RES, CBN 1/2P 47K            | 444      | △R456    | 5102-5604713 | RES, FUSE 56       |
| 488                            | R2       | 5135-223522   | RES, CBN 1/2P 22K            | 444      | △R457    | 5102-5604713 | RES, FUSE 56       |
| 497                            | R3       | 5135-152522   | RES, CBN 1/2P 1.5K           | 444      | △R458    | 5102-5604713 | RES, FUSE 56       |
| 500                            | R7       | 5135-104522   | RES, CBN 1/2P 100K           | 466      | R459     | 5135-153522  | RES, CBN 1/2P 15K  |
| 495                            | R8       | 5135-473522   | RES, CBN 1/2P 47K            | 466      | R460     | 5135-153522  | RES, CBN 1/2P 15K  |
| 496                            | R9       | 5135-334522   | RES, CBN 1/2P 330K           | 466      | R461     | 5135-153522  | RES, CBN 1/2P 15K  |
| 494                            | R10      | 5135-684522   | RES, CBN 1/2P 680K           | 466      | R462     | 5135-153522  | RES, CBN 1/2P 15K  |
| 493                            | R11      | 5135-184522   | RES, CBN 1/2P 180K           | 449      | R463     | 5174-273381  | RES, MTL 1/4P 27K  |
| 492                            | R12      | 5135-225522   | RES, CBN 1/2P 2.2M           | 449      | R464     | 5174-273381  | RES, MTL 1/4P 27K  |
| 490                            | R13      | 5135-104522   | RES, CBN 1/2P 100K           | 446      | △R465    | 5102-2205116 | RES, FUSE 22       |
| 490                            | R14      | 5135-104522   | RES, CBN 1/2P 100K           | 446      | △R466    | 5102-2205116 | RES, FUSE 22       |

| Ser. No. | Ref. No. | Part No.      | Description        | Ser. No. | Ref. No. | Part No.       | Description                      |
|----------|----------|---------------|--------------------|----------|----------|----------------|----------------------------------|
| 467      | R467     | 5135-562522   | RES, CBN 1/2P 5.6K | 412      | Q755     | 5616-2SK170BL  | FET, N-CH                        |
| 467      | R468     | 5135-562522   | RES, CBN 1/2P 5.6K | 412      | Q756     | 5616-2SK170BL  | FET, N-CH                        |
| 446      | △R469    | 5102-2205116  | RES, FUSE 22       | 412      | Q757     | 5616-2SK170BL  | FET, N-CH                        |
| 446      | △R470    | 5102-2205116  | RES, FUSE 22       | 412      | Q758     | 5616-2SK170BL  | FET, N-CH                        |
| 467      | R471     | 5135-562522   | RES, CBN 1/2P 5.6K | 411      | Q759     | 5615-2SJ74(BL) | FET, P-CH                        |
| 467      | R472     | 5135-562522   | RES, CBN 1/2P 5.6K | 411      | Q760     | 5615-2SJ74(BL) | FET, P-CH                        |
| 443      | △R473    | 5102-1005711  | RES, FUSE 10       | 411      | Q761     | 5615-2SJ74(BL) | FET, P-CH                        |
| 443      | △R474    | 5102-1005711  | RES, FUSE 10       | 411      | Q762     | 5615-2SJ74(BL) | FET, P-CH                        |
| 443      | △R475    | 5102-1005711  | RES, FUSE 10       |          |          |                | <b>DIODES</b>                    |
| 443      | △R476    | 5102-1005711  | RES, FUSE 10       | 477      | D8       | 5635-HZ6A2L    | DIODE, ZENER                     |
| 460      | R477     | 5135-102522   | RES, CBN 1/2P 1K   | 478      | D9       | 5631-1S2473    | DIODE, DET                       |
| 460      | R478     | 5135-102522   | RES, CBN 1/2P 1K   | 478      | D10      | 5631-1S2473    | DIODE, DET                       |
| 447      | R767     | 5174-561381   | RES, MTL 1/4P 560  | 478      | D11      | 5631-1S2473    | DIODE, DET                       |
| 447      | R768     | 5174-561381   | RES, MTL 1/4P 560  | 478      | D12      | 5631-1S2473    | DIODE, DET                       |
| 458      | R775     | 5135-472522   | RES, CBN 1/2P 4.7K | 478      | D15      | 5631-1S2473    | DIODE, DET                       |
| 458      | R776     | 5135-472522   | RES, CBN 1/2P 4.7K | 479      | D16      | 5632-S5566B    | DIODE, RECT                      |
| 458      | R777     | 5135-472522   | RES, CBN 1/2P 4.7K | 426      | D401     | 5635-HZ24-2L   | DIODE, ZENER                     |
| 458      | R778     | 5135-472522   | RES, CBN 1/2P 4.7K | 426      | D402     | 5635-HZ24-2L   | DIODE, ZENER                     |
| 464      | R781     | 5135-101522   | RES, CBN 1/2P 100  | 426      | D403     | 5635-HZ24-2L   | DIODE, ZENER                     |
| 464      | R782     | 5135-101522   | RES, CBN 1/2P 100  | 426      | D404     | 5635-HZ24-2L   | DIODE, ZENER                     |
| 464      | R783     | 5135-101522   | RES, CBN 1/2P 100  |          |          |                | <b>CONTROLS</b>                  |
| 464      | R784     | 5135-101522   | RES, CBN 1/2P 100  | 441      | VR401    | 5101-S0401102  | RES, SEMI FIX 1K, MAIN DRIVER    |
| 457      | R789     | 5135-151522   | RES, CBN 1/2P 150  | 441      | VR402    | 5101-S0401102  | RES, SEMI FIX 1K, MAIN DRIVER    |
| 457      | R790     | 5135-151522   | RES, CBN 1/2P 150  |          |          |                | <b>MISCELLANEOUS</b>             |
| 468      | R943     | 5135-102522   | RES, CBN 1/2P 1K   | 724      | CN401    | 4443-0401140   | CONNECTOR                        |
| 468      | R944     | 5135-102522   | RES, CBN 1/2P 1K   | 727      | CN402    | 4443-070185    | CONNECTOR                        |
| 465      | R945     | 5135-392522   | RES, CBN 1/2P 3.9K | 727      | CN403    | 4443-070185    | CONNECTOR                        |
| 465      | R946     | 5135-392522   | RES, CBN 1/2P 3.9K | 725      | CN404    | 4443-0201140   | CONNECTOR                        |
| 465      | R947     | 5135-392522   | RES, CBN 1/2P 3.9K | 723      | CN405    | 4443-0201140   | CONNECTOR                        |
| 465      | R948     | 5135-392522   | RES, CBN 1/2P 3.9K | 729      | TM401    | 4214-11012     | TERMINAL                         |
|          |          |               |                    | 729      | TM402    | 4214-11012     | TERMINAL                         |
|          |          |               |                    |          |          |                | <b>PCB-5 MAIN LCH P.C. BOARD</b> |
|          |          |               |                    |          |          |                |                                  |
|          |          |               |                    |          |          |                | <b>CAPACITORS</b>                |
| 475      | Q1       | 5613-2240(BL) | XISTOR, NPN R      | 534      | C455     | 5353-470534    | CAP, MCA 47p                     |
| 473      | Q2       | 5613-2320L(F) | XISTOR, NPN R      | 534      | C457     | 5353-470534    | CAP, MCA 47p                     |
| 472      | Q3       | 5611-999L(F)  | XISTOR, PNP R      | 691      | C459     | 5354-104593    | CAP, MYL .1μ                     |
| 473      | Q4       | 5613-2320L(F) | XISTOR, NPN R      | 541      | C465     | 5354-104593    | CAP, MYL .1μ                     |
| 472      | Q5       | 5611-999L(F)  | XISTOR, PNP R      | 541      | C467     | 5354-104593    | CAP, MYL .1μ                     |
| 472      | Q6       | 5611-999L(F)  | XISTOR, PNP R      |          |          |                | <b>RESISTORS</b>                 |
| 471      | Q401     | 5616-2SK364BL | FET, N-CH          | 549      | R479     | 5135-100522    | RES, CBN 1/2P 10                 |
| 471      | Q402     | 5616-2SK364BL | FET, N-CH          | 518      | R481     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 417      | Q403     | 5613-2240(BL) | XISTOR, NPN R      | 518      | R483     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 417      | Q404     | 5613-2240(BL) | XISTOR, NPN R      | 518      | R485     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 417      | Q405     | 5613-2320L(F) | XISTOR, NPN R      | 517      | R487     | 5275-S040JR22  | RES, CME 5P .22                  |
| 414      | Q406     | 5613-2320L(F) | XISTOR, NPN R      | 518      | R491     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 418      | Q407     | 5611-970(BL)  | XISTOR, PNP R      | 517      | R495     | 5275-S040JR22  | RES, CEM 5P .22                  |
| 418      | Q408     | 5611-970(BL)  | XISTOR, PNP R      |          |          |                | <b>RESISTORS</b>                 |
| 417      | Q409     | 5613-2240(BL) | XISTOR, NPN R      | 549      | R479     | 5135-100522    | RES, CBN 1/2P 10                 |
| 414      | Q410     | 5613-2240(BL) | XISTOR, NPN R      | 518      | R481     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 418      | Q413     | 5611-970(BL)  | XISTOR, PNP R      | 518      | R483     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 418      | Q414     | 5611-970(BL)  | XISTOR, PNP R      | 517      | R485     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 416      | Q415     | 5614-666A(C)  | XISTOR, NPN A      | 518      | R491     | 5272-S010KR15  | RES, CEM 2P .15                  |
| 416      | Q416     | 5614-666A(C)  | XISTOR, NPN A      | 517      | R495     | 5275-S040JR22  | RES, CEM 5P .22                  |
| 415      | Q417     | 5612-646A(C)  | XISTOR, PNP A      |          |          |                | <b>CAPACITORS</b>                |
| 415      | Q418     | 5612-646A(C)  | XISTOR, PNP A      | 528      | R743     | 5135-102522    | RES, CBN 1/2P 1K                 |
| 415      | Q419     | 5612-646A(C)  | XISTOR, PNP A      | 525      | R745     | 5135-561522    | RES, CBN 1/2P 560                |
| 415      | Q420     | 5612-646A(C)  | XISTOR, PNP A      | 693      | R751     | 5135-562522    | RES, CBN 1/2P 5.6K               |
| 417      | Q421     | 5613-2240(BL) | XISTOR, NPN R      | 693      | R753     | 5135-562522    | RES, CBN 1/2P 5.6K               |
| 417      | Q422     | 5613-2240(BL) | XISTOR, NPN R      | 694      | R755     | 5135-272522    | RES, CBN 1/2P 2.7K               |
| 417      | Q423     | 5614-666A(C)  | XISTOR, NPN A      | 531      | R757     | 5171-100593    | RES, MTL 1P 10                   |
| 416      | Q424     | 5614-666A(C)  | XISTOR, NPN A      | 526      | R759     | 5135-121522    | RES, CBN 1/2P 120                |
| 418      | Q425     | 5611-970(BL)  | XISTOR, PNP R      | 532      | R761     | 5175-100583    | RES, MTL 3P 10                   |
| 418      | Q426     | 5611-970(BL)  | XISTOR, PNP R      | 695      | R763     | 5135-472522    | RES, CBN 1/2P 4.7K               |
| 413      | Q427     | 5612-647A(C)  | XISTOR, PNP A      | 527      | R765     | 5135-150522    | RES, CBN 1/2P 15                 |
| 413      | Q428     | 5612-647A(C)  | XISTOR, PNP A      | 529      | R769     | 5135-221522    | RES, CBN 1/2P 220                |
| 413      | Q429     | 5614-667A(C)  | XISTOR, NPN A      | 529      | R771     | 5135-221522    | RES, CBN 1/2P 220                |
| 421      | Q430     | 5614-667A(C)  | XISTOR, NPN A      | 520      | △R791    | 5102-1015116   | RES, FUSE 100                    |
| 421      | Q431     | 5614-668A(C)  | XISTOR, NPN A      | 520      | △R793    | 5102-1015116   | RES, FUSE 100                    |
| 420      | Q432     | 5614-668A(C)  | XISTOR, NPN A      | 521      | △R795    | 5102-1005116   | RES, FUSE 10                     |
| 419      | Q433     | 5612-648A(C)  | XISTOR, PNP A      | 521      | △R797    | 5102-1005116   | RES, FUSE 10                     |
| 419      | Q434     | 5612-648A(C)  | XISTOR, PNP A      | 527      | R799     | 5135-150522    | RES, CBN 1/2P 15                 |
| 417      | Q435     | 5613-2240(BL) | XISTOR, NPN R      | 549      | R941     | 5135-100522    | RES, CBN 1/2P 10                 |
| 417      | Q436     | 5613-2240(BL) | XISTOR, NPN R      | 505      | Q453     | 5613-3423(Y)   | XISTOR, NPN R                    |
| 418      | Q437     | 5611-970(BL)  | XISTOR, PNP R      | 503      | Q457     | 5614-668A(C)   | XISTOR, NPN A                    |
| 418      | Q438     | 5611-970(BL)  | XISTOR, PNP R      | 502      | Q459     | 5612-648A(C)   | XISTOR, PNP A                    |
| 417      | Q751     | 5613-2240(BL) | XISTOR, NPN R      | 506      | Q461     | 5611-1306A(Y)  | XISTOR, PNP R                    |
| 417      | Q752     | 5613-2240(BL) | XISTOR, NPN R      | 507      | Q463     | 5613-3298A(Y)  | XISTOR, NPN R                    |
| 418      | Q753     | 5611-970(BL)  | XISTOR, PNP R      | 508      | Q465     | 5611-1302(O)   | XISTOR, PNP R                    |
| 418      | Q754     | 5611-970(BL)  | XISTOR, PNP R      | 510      | Q467     | 5613-3281(O)   | XISTOR, NPN R                    |
|          |          |               |                    | 508      | Q469     | 5611-1302(O)   | XISTOR, PNP R                    |

| Ser. No. | Ref. No.         | Part No.                          | Description                      | Ser. No. | Ref. No.        | Part No.      | Description                               |
|----------|------------------|-----------------------------------|----------------------------------|----------|-----------------|---------------|---|
| 510      | Q471             | 5613-3281(0)                      | XISTOR, NPN R                    | 595      | L406            | 5991-7125     | SPRING COIL                               |
| 690      | Q477             | 5611-970(BL)                      | XISTOR, PNP R                    | 603      | VR406           | 5101-S0401102 | <b>CONTROL</b>                            |
|          |                  | <b>DIODES</b>                     |                                  |          |                 |               | <b>MISCELLANEOUS</b>                      |
| 513      | D407             | 5631-1S2473                       | DIODE, DET                       | 741      | CC402           | 4132-R0110121 | CORD, 2C                                  |
| 513      | D409             | 5631-1S2473                       | DIODE, DET                       | 746      | CW404           | 4163-0140021  | CONNECTOR W/W                             |
| 514      | D411             | 5632-10DF2                        | DIODE, RECT                      | 747      | CW405           | 4163-0140020  | CONNECTOR W/W                             |
| 514      | D413             | 5632-10DF2                        | DIODE, RECT                      | 748      | CW406           | 4163-0140039  | CONNECTOR W/W                             |
|          |                  | <b>COIL</b>                       |                                  | 745      | JL403           | 4242-R0507141 | JUMPER LEAD                               |
| 535      | L405             | 5991-7125                         | SPRING COIL                      | 613      | L402            | 5597-45502    | CORE, BEADS                               |
|          |                  | <b>CONTROL</b>                    |                                  | 613      | L404            | 5597-45502    | CORE, BEADS                               |
| 543      | VR405            | 5101-S0401102                     | RES, SEMI FIX 1K, IDLING CURRENT | 740      | TP404           | 4443-024116   | CONNECTOR                                 |
|          |                  | <b>MISCELLANEOUS</b>              |                                  |          |                 |               |   |
| 739      | CC401            | 4132-R0110121                     | CORD, 2C                         |          |                 |               | <b>PCB-7 HEADPHONES P.C. BOARD</b>        |
| 736      | CW401            | 4163-0140021                      | CONNECTOR W/W                    |          |                 |               |   |
| 737      | CW402            | 4163-0140023                      | CONNECTOR W/W                    |          |                 |               | <b>CAPACITORS</b>                         |
| 738      | CW403            | 4163-0140039                      | CONNECTOR W/W                    | 075A     | C95             | 5359-3315851  | CAP, PPP 330p                             |
| 735      | CW410            | 4163-S0202201                     | CONNECTOR W/W                    | 075A     | C96             | 5359-3315851  | CAP, PPP 330p                             |
| 749      | JL401            | 4242-R0507101                     | JUMPER LEAD                      |          |                 |               | <b>MISCELLANEOUS</b>                      |
| 550      | L401             | 5597-45502                        | CORE, BEADS                      | 917      | J1              | 4451-00161    | JACK, 1P, HEADPHONES                      |
| 550      | L403             | 5597-45502                        | CORE, BEADS                      |          |                 |               | <b>PCB-8 SPEAKER P.C. BOARD</b>           |
| 606      | PT1              | 5192-00104                        | POSISTOR                         |          |                 |               |   |
| 606      | PT2              | 5192-00104                        | POSISTOR                         |          |                 |               |   |
| 734      | TP403            | 4443-024116                       | CONNECTOR                        |          |                 |               |   |
|          |                  |                                   |                                  |          |                 |               |   |
|          |                  | <b>PCB-6 MAIN RCH. P.C. BOARD</b> |                                  |          |                 |               |   |
|          |                  |                                   |                                  |          |                 |               |   |
|          |                  | <b>CAPACITORS</b>                 |                                  |          |                 |               |   |
| 594      | C456             | 5353-470534                       | CAP, MCA 47p                     | 069A     | C83             | 5359-S010J271 | CAP, PPP 270p                             |
| 594      | C458             | 5353-470534                       | CAP, MCA 47p                     | 069A     | C84             | 5359-S010J271 | CAP, PPP 270p                             |
| 699      | C460             | 5354-104593                       | CAP, MYL .1 $\mu$                | 069A     | C85             | 5359-S010J271 | CAP, PPP 270p                             |
| 601      | C466             | 5354-104593                       | CAP, MYL .1 $\mu$                | 069A     | C86             | 5359-S010J271 | CAP, PPP 270p                             |
| 601      | C468             | 5354-104593                       | CAP, MYL .1 $\mu$                | 069A     | C87             | 5359-S010J271 | CAP, PPP 270p                             |
|          |                  | <b>RESISTORS</b>                  |                                  | 069A     | C88             | 5359-S010J271 | CAP, PPP 270p                             |
| 612      | R480             | 5135-100522                       | RES, CBN 1/2P 10                 | 069A     | C89             | 5359-S010J271 | CAP, PPP 270p                             |
| 578      | R482             | 5272-S010KR15                     | RES, CEM 2P .15                  | 069A     | C90             | 5359-S010J271 | CAP, PPP 270p                             |
| 578      | R484             | 5272-S010KR15                     | RES, CEM 2P .15                  |          |                 |               | <b>RESISTORS</b>                          |
| 578      | R486             | 5272-S010KR15                     | RES, CEM 2P .15                  | 679      | R737            | 5135-102522   | RES, CBN 1/2P 1K                          |
| 577      | R488             | 5275-S040JR22                     | RES, CEM 5P .22                  | 679      | R738            | 5135-102522   | RES, CBN 1/2P 1K                          |
| /490     |                  |                                   |                                  | 679      | R739            | 5135-102522   | RES, CBN 1/2P 1K                          |
| 578      | R492             | 5272-S010KR15                     | RES, CEM 2P .15                  | 679      | R740            | 5135-102522   | RES, CBN 1/2P 1K                          |
| 577      | R496             | 5275-S040JR22                     | RES, CEM 5P .22                  |          |                 |               | <b>MISCELLANEOUS</b>                      |
| /498     |                  |                                   |                                  | 770      | JL404           | 4242-R0303451 | JUMPER LEAD                               |
| 588      | R744             | 5135-102522                       | RES, CBN 1/2P 1K                 | 913      | SW3             | 4411-204715   | SWITCH, ROTARY, SPEAKERS                  |
| 585      | R746             | 5135-561522                       | RES, CBN 1/2P 560                | 651      | SPT1            | 4214-221      | TERMINAL, SPEAKERS                        |
| 701      | R752             | 5135-562522                       | RES, CBN 1/2P 5.6K               |          |                 |               | <b>PCB-9 MAIN POWER SUPPLY P.C. BOARD</b> |
| 701      | R754             | 5135-562522                       | RES, CBN 1/2P 5.6K               |          |                 |               |   |
| 702      | R756             | 5135-272522                       | RES, CBN 1/2P 2.7K               | 051A     | C20             | 5352-1041957  | <b>CAPACITORS</b>                         |
| 591      | R758             | 5171-100593                       | RES, MTL 1P 10                   | 683      | C23             | 5345-475J0962 | CAP, MTL .1 $\mu$                         |
| 586      | R760             | 5135-121522                       | RES, CBN 1/2P 120                | 623      | $\triangle$ C31 | 5341-S10HM758 | CAP, MINI ELE 4.7 $\mu$ /100V             |
| 592      | R762             | 5175-100583                       | RES, MTL 3P 10                   | 623      | $\triangle$ C32 | 5341-S10HM758 | CAP, ELE 7500 $\mu$ /85V                  |
| 703      | R764             | 5135-472522                       | RES, CBN 1/2P 4.7K               | 623      | $\triangle$ C33 | 5341-S10HM758 | CAP, ELE 7500 $\mu$ /85V                  |
| 587      | R766             | 5135-150522                       | RES, CBN 1/2P 15                 | 623      | $\triangle$ C34 | 5341-S10HM758 | CAP, ELE 7500 $\mu$ /85V                  |
| 589      | R770             | 5135-221522                       | RES, CBN 1/2P 220                | 076A     | C97             | 5361-223ZF    | CAP, CER .022 $\mu$                       |
| 589      | R772             | 5135-221522                       | RES, CBN 1/2P 220                |          |                 |               | <b>RESISTORS</b>                          |
| 580      | $\triangle$ R792 | 5102-1015116                      | RES, FUSE 100                    | 685      | $\triangle$ R28 | 5102-8205116  | RES, FUSE 82                              |
| 580      | $\triangle$ R794 | 5102-1015116                      | RES, FUSE 100                    | 685      | $\triangle$ R29 | 5102-8205116  | RES, FUSE 82                              |
| 581      | $\triangle$ R796 | 5102-1005116                      | RES, FUSE 10                     | 688      | R30             | 5171-331593   | RES, MTL 1P 330                           |
| 581      | $\triangle$ R798 | 5102-1005116                      | RES, FUSE 10                     | 687      | R31             | 5135-103522   | RES, CBN 1/2P 10K                         |
| 587      | R800             | 5135-150522                       | RES, CBN 1/2P 15                 | 689      | R32             | 5171-471593   | RES, MTL 1P 470                           |
| 612      | R942             | 5135-100522                       | RES, CBN 1/2P 10                 | 688      | R33             | 5171-331593   | RES, MTL 1P 330                           |
|          |                  | <b>TRANSISTORS</b>                |                                  |          |                 |               | <b>DIODES</b>                             |
| 565      | Q454             | 5613-3423(Y)                      | XISTOR, NPN R                    | 621      | $\triangle$ D1  | 5685-D5SB40   | SILICON, BRIG                             |
| 563      | Q458             | 5614-668A(C)                      | XISTOR, NPN A                    | 621      | $\triangle$ D2  | 5685-D5SB40   | SILICON, BRIG                             |
| 562      | Q460             | 5612-648A(C)                      | XISTOR, PNP A                    | 681      | $\triangle$ D13 | 5632-S5566B   | DIODE, RECT                               |
| 566      | Q462             | 5611-1306A(Y)                     | XISTOR, PNP R                    | 681      | $\triangle$ D14 | 5632-S5566B   | DIODE, RECT                               |
| 567      | Q464             | 5613-3298A(Y)                     | XISTOR, NPN R                    |          |                 |               | <b>MISCELLANEOUS</b>                      |
| 568      | Q466             | 5611-1302(O)                      | XISTOR, PNP R                    | 754      | CW1             | 4163-S0202201 | CONNECTOR W/W                             |
| 570      | Q468             | 5613-3281(O)                      | XISTOR, NPN R                    | 800      | CW10            | 4163-0135020  | CONNECTOR W/W                             |
| 568      | Q470             | 5611-1302(O)                      | XISTOR, PNP R                    | 753      | TM1             | 4214-11023    | TERMINAL                                  |
| 570      | Q472             | 5613-3281(O)                      | XISTOR, NPN R                    | 752      | TM3             | 4214-11022    | TERMINAL                                  |
| 698      | Q478             | 5611-970(BL)                      | XISTOR, PNP R                    | 752      | TM4             | 4214-11022    | TERMINAL                                  |
|          |                  | <b>DIODES</b>                     |                                  | 751      | TM11            | 4214-11032    | TERMINAL                                  |
| 573      | D408             | 5631-1S2473                       | DIODE, DET                       |          |                 |               | <b>PCB-10 POWER SWITCH P.C. BOARD</b>     |
| 573      | D410             | 5631-1S2473                       | DIODE, DET                       |          |                 |               |   |
| 574      | D412             | 5632-10DF2                        | DIODE, RECT                      |          |                 |               |   |
| 574      | D414             | 5632-10DF2                        | DIODE, RECT                      |          |                 |               |   |
|          |                  | <b>COIL</b>                       |                                  |          |                 |               |   |

| Ser. No. | Ref. No. | Part No.                                     | Description                       | Ser. No. | Ref. No. | Part No.      | Description                               |
|----------|----------|--|-----------------------------------|----------|----------|---------------|---|
|          |          | <b>CAPACITOR</b>                             |                                   | 760      | CN507    | 4443-030185   | CONNECTOR                                 |
| 913A     | △C1      | 5352-1030958                                 | CAP, MTL .01                      | 661      | PJ2      | 4489-00202004 | PIN JACK, MLT, PRE-OUT/MAIN-IN            |
|          |          | <b>RESISTOR</b>                              |                                   | 907      | SW508    | 4421-02601042 | SWITCH, SLIDE, INTEGRATED/SEPARATE        |
| 054A     | △R101    | 5135-335J50P                                 | RES, CBN 1/2P 3.3M                |          |          |               | <b>PCB-15 TERMINAL L P.C. BOARD</b>       |
|          |          | <b>MISCELLANEOUS</b>                         |                                   |          |          |               |   |
| 911      | △SW2     | 4433-01101                                   | SWITCH, PU-PW, POWER              |          |          |               | <b>RESISTORS</b>                          |
| 916      | TM9      | 4214-122                                     | TERMINAL                          | 553      | R747     | 5135-561522   | RES, CBN 1/2P 560                         |
| 916      | TM10     | 4214-122                                     | TERMINAL                          | 554      | R749     | 5135-122522   | RES, CBN 1/2P 1.2K                        |
|          |          | <b>PCB-11 SUB POWER SUPPLY P.C. BOARD</b>    |                                   | 557      | Q455     | 5613-3423(Y)  | TRANSISTOR, NPN R                         |
|          |          | <b>CAPACITORS</b>                            |                                   |          |          |               | <b>PCB-16 TERMINAL R P.C. BOARD</b>       |
| 629      | △C5      | 5345-228F0962                                | CAP, MINI ELE 2200μ/50V           |          |          |               |   |
| 629      | △C6      | 5345-228F0962                                | CAP, MINI ELE 2200μ/50V           |          |          |               | <b>RESISTORS</b>                          |
| 630      | C11      | 5354-104593                                  | CAP, MYL .1μ                      | 615      | R748     | 5135-561522   | RES, CBN 1/2P 560                         |
| 630      | C12      | 5354-104593                                  | CAP, MYL .1μ                      | 616      | R750     | 5135-122522   | RES, CBN 1/2P 1.2K                        |
| 052A     | C22      | 5352-1041957                                 | CAP, MTL .1μ                      |          |          |               | <b>TRANSISTOR</b>                         |
| 057A     | C51      | 5361-223ZF                                   | CAP, CER .022μ                    | 618      | Q456     | 5613-3423(Y)  | XISTOR, NPN R                             |
|          |          | <b>DIODES</b>                                |                                   |          |          |               | <b>PCB-17 POWER LED P.C. BOARD</b>        |
| 627      | △D3      | 5632-S5566B                                  | DIODE, RECT                       |          |          |               |   |
| 627      | △D4      | 5632-S5566B                                  | DIODE, RECT                       | 890      | C911     | 5345-S19CM106 | CAP, MINI ELE 10μ/16V                     |
| 627      | △D5      | 5632-S5566B                                  | DIODE, RECT                       |          |          |               | <b>RESISTOR</b>                           |
| 627      | △D6      | 5632-S5566B                                  | DIODE, RECT                       | 889      | R915     | 5135-221522   | RES, CBN 1/2P 220                         |
|          |          | <b>MISCELLANEOUS</b>                         |                                   |          |          |               | <b>DIODES</b>                             |
| 758      | CN2      | 4443-0301140                                 | CONNECTOR                         | 918      | D911     | 5637-LT3E47L  | LED, POWER                                |
| 758      | CN3      | 4443-0301140                                 | CONNECTOR                         | 909      | D912     | 5637-GL3PR47  | LED, PROTECTOR                            |
| 758      | CN4      | 4443-0301140                                 | CONNECTOR                         | 797      | CW510    | 4163-S0203101 | MISCELLANEOUS                             |
| 632A     | △F2      | 5732-122030                                  | FUSE, T1.25A/250V                 |          |          |               | CONNECTOR W/W                             |
| 632A     | △F3      | 5732-122030                                  | FUSE, T1.25A/250V                 |          |          |               | <b>PCB-18 VOLTAGE SELECTOR P.C. BOARD</b> |
| 633      | △HF3     | 4472-0131                                    | HOLDER, FUSE F2                   |          |          |               |   |
| 633      | △HF4     | 4472-0131                                    | HOLDER, FUSE F3                   | 668      | △HF1     | 4472-0131     | MISCELLANEOUS                             |
| 633      | △HF5     | 4472-0131                                    | HOLDER, FUSE F3                   | 668      | △HF2     | 4472-0131     | HOLDER, FUSE F1                           |
| 633      | △HF6     | 4472-0131                                    | HOLDER, FUSE F2                   | 053A     | △SW1     | 4411-00501102 | HOLDER, FUSE F1                           |
| 756      | TM5      | 4214-11033                                   | TERMINAL                          | 915      | TM21     | 4214-122      | SWITCH, ROTARY, VOLTAGE SELECTOR          |
| 631      | TM6      | 4214-11013                                   | TERMINAL                          | 915      | TM22     | 4214-122      | TERMINAL                                  |
|          |          |  |                                   | 915      | TM23     | 4214-122      | TERMINAL                                  |
|          |          | <b>PCB-12 VOLUME P.C. BOARD</b>              |                                   |          |          |               | <b>CHASSIS MISCELLANEOUS</b>              |
|          |          | <b>RESISTORS</b>                             |                                   | 624      | C7       | 5352-2741957  | CAP, MTL .27μ                             |
| 920      | R503     | 5135-472522                                  | RES, CBN 1/2P 4.7K                | 624      | C8       | 5352-2741957  | CAP, MTL .27μ                             |
| 920      | R504     | 5135-472522                                  | RES, CBN 1/2P 4.7K                |          |          |               | <b>MISCELLANEOUS</b>                      |
|          |          | <b>CONTROLS</b>                              |                                   | 054C     | △CO1     | 4443-712      | CONNECTOR                                 |
| 896      | VR503    | 5113-10472147                                | RES, V CBN 16 100K, VOLUME        | 667A     | △F1      | 5732-312030   | FUSE, T3.15A/250V                         |
| /504     |          |  |                                   | 654A     | △P1      | 4161-71150    | CORD W/PLUG                               |
|          |          | <b>MISCELLANEOUS</b>                         |                                   | 674A     | △T1      | 5584-T0902    | XFORMER, POWER                            |
| 768      | CN511    | 4443-030185                                  | CONNECTOR                         | 663      |          | 4442-14       | PIN PLUG (X2)                             |
| 761      | CN512    | 4443-030185                                  | CONNECTOR                         | 053C     | △        | 4150-8        | TUBING, SPE                               |
| 765      | CN513    | 4443-070185                                  | CONNECTOR                         | 034A     | LUG      | 4211-4        | LUG, W-108                                |
|          |          | <b>PCB-13 BYPASS P.C. BOARD</b>              |                                   | 034A     | LUG      | 4211-4        | LUG, W-107                                |
|          |          | <b>MISCELLANEOUS</b>                         |                                   | 077A     | LUG      | 4211-4        | LUG, C97                                  |
| 763      | CN508    | 4443-0201140                                 | CONNECTOR                         |          |          |               |   |
| 744      | JL501    | 4242-R0507101                                | JUMPER LEAD                       |          |          |               |   |
| 904      | SW507    | 4431-S2501106                                | SWITCH, PUSH, PREAMPLIFIER BYPASS |          |          |               |   |
|          |          | <b>PCB-14 PRE/MAIN SEPARATION P.C. BOARD</b> |                                   |          |          |               |   |
|          |          | <b>CAPACITORS</b>                            |                                   |          |          |               | <b>PACKAGE PARTS LIST</b>                 |
| 066A     | C79      | 5359-1015851                                 | CAP, PPP 100p                     | 021      |          | 1756-06304    | LABEL 230V/50Hz                           |
| 066A     | C80      | 5359-1015851                                 | CAP, PPP 100p                     | 022      |          | 1756-03108    | LABEL (I)                                 |
| 066A     | C81      | 5359-1015851                                 | CAP, PPP 100p                     | 022      |          | 1756-03124    | LABEL (G)                                 |
| 066A     | C82      | 5359-1015851                                 | CAP, PPP 100p                     | 107      |          | 1111-0320J152 | OWNER GUIDE, OG                           |
| 073A     | C91      | 5359-1015851                                 | CAP, PPP 100P                     | 113      |          | 1241-R0123351 | POLYETHYL BAG, OG                         |
| 073A     | C92      | 5359-1015851                                 | CAP, PPP 100P                     | 122      |          | 1241-R0165751 | POLYETHYL BAG, SET                        |
| 073A     | C93      | 5359-1015851                                 | CAP, PPP 100P                     | 123      |          | 1222-7392     | CUSHION, CARTON REAR SPACER (x 2)         |
| 073A     | C94      | 5359-1015851                                 | CAP, PPP 100P                     | 125      |          | 1221-77198    | CARTON BOX                                |
| 922      | C577     | 5361-103ZF                                   | CAP, CER .01μ                     | 125      |          | 1221-31502    | CARTON BOX                                |
| 922      | C578     | 5361-103ZF                                   | CAP, CER .01μ                     | 126      |          | 1222-7357     | CUSHION, L                                |
|          |          | <b>RESISTORS</b>                             |                                   | 127      |          | 1222-7358     | CUSHION, R                                |
| 074A     | R91      | 5135-102522                                  | RES, CBN 1/2P 1K                  | 128      |          | 1223-11747    | SOFT SHEET, SET                           |
| 074A     | R92      | 5135-102522                                  | RES, CBN 1/2P 1K                  | 129      |          | 1223-11115    | SOFT SHEET, AC CORD                       |
| 919      | R929     | 5135-331522                                  | RES, CBN 1/2P 330                 |          |          |               |   |
| 919A     | R929     | 5135-102522                                  | RES, CBN 1/2P 1K                  |          |          |               |   |
| 921      | R930     | 5135-331522                                  | RES, CBN 1/2P 330                 |          |          |               |   |
| 921A     | R930     | 5135-102522                                  | RES, CBN 1/2P 1K                  |          |          |               |   |
|          |          | <b>MISCELLANEOUS</b>                         |                                   |          |          |               |   |

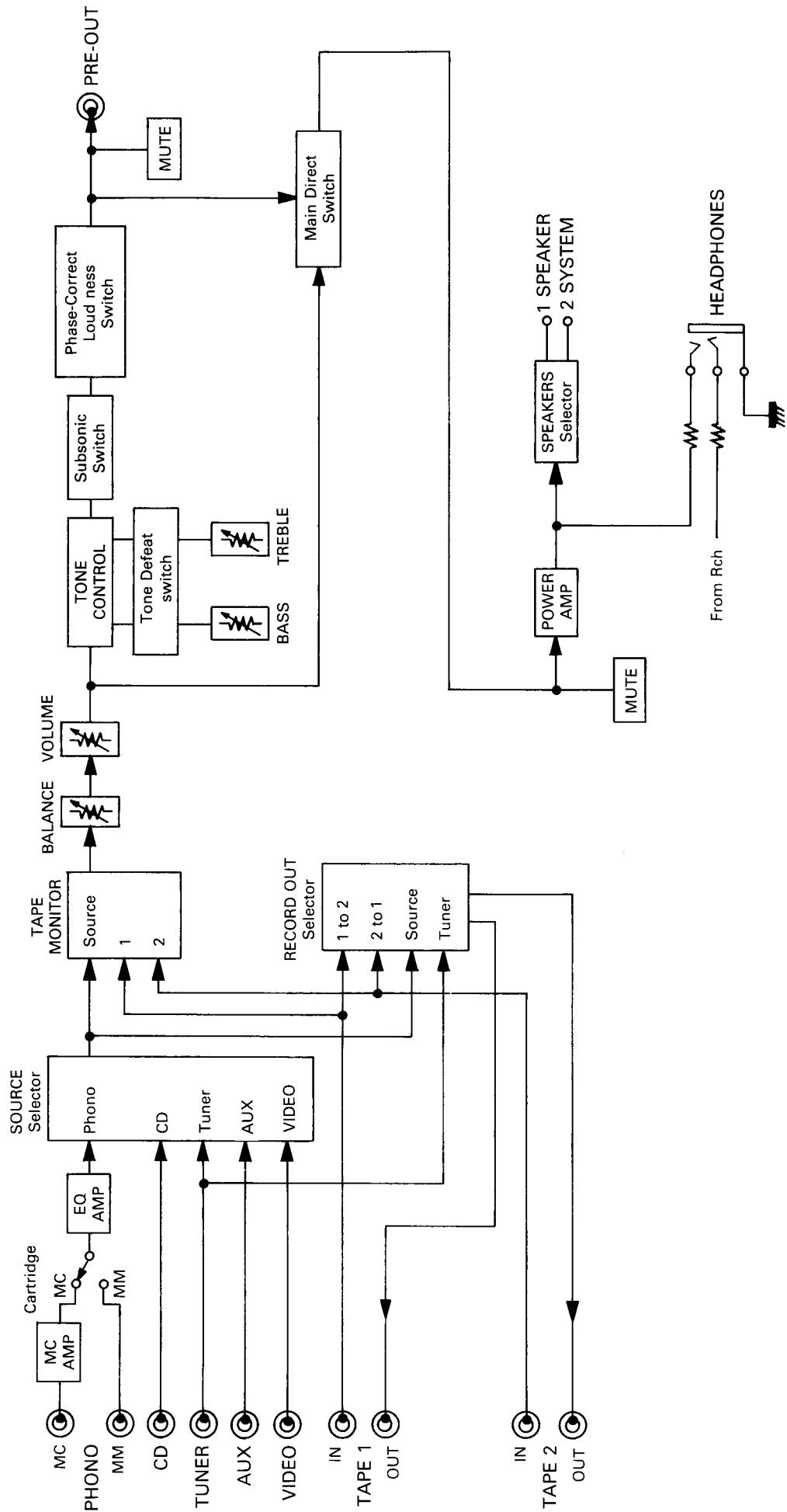
| <u>Ser. No.</u>                    | <u>Ref. No.</u> | <u>Part No.</u>      | <u>Description</u>                    |
|------------------------------------|-----------------|----------------------|---------------------------------------|
| <b>ABBREVIATIONS IN PARTS LIST</b> |                 |                      |                                       |
| <b>CAPACITORS</b>                  |                 |                      | <b>RESISTORS</b>                      |
| CAP, MINI ELE                      | :               | Electrolytic         | RES, CBN 1/6P : Carbon 1/6W           |
| CAP, CER                           | :               | Ceramic              | RES, FUSE : Fuse                      |
| CAP, PPP                           | :               | Polypropylene        | RES, CEM 5P : Cement 5W               |
| CAP, MYL                           | :               | Mylar                | RES, MTL 1P : Metal 1W                |
| CAP, MCA                           | :               | Mica                 | 2.2K : 2.2kΩ                          |
| CAP, MINI BP                       | :               | Bipolar              | 220 : 220Ω                            |
| CAP, ELE BP                        | :               | Electrolytic Bipolar |                                       |
| CAP, STY                           | :               | Polystyrene Film     | XISTOR : Transistor                   |
| CAP, SPE                           | :               | Special              | FET : Field Effect Transistor         |
| CAP, TAN                           | :               | Tantalum             |                                       |
| 470 $\mu$                          | :               | 470 $\mu$ F          | RES, V CBN : Variable Carbon Resistor |
| 6800p                              | :               | 6800pF               | RES, SEMI FIX : Semi-fixed Resistor   |
| .047 $\mu$                         | :               | 0.047 $\mu$ F        |                                       |

**NOTE**

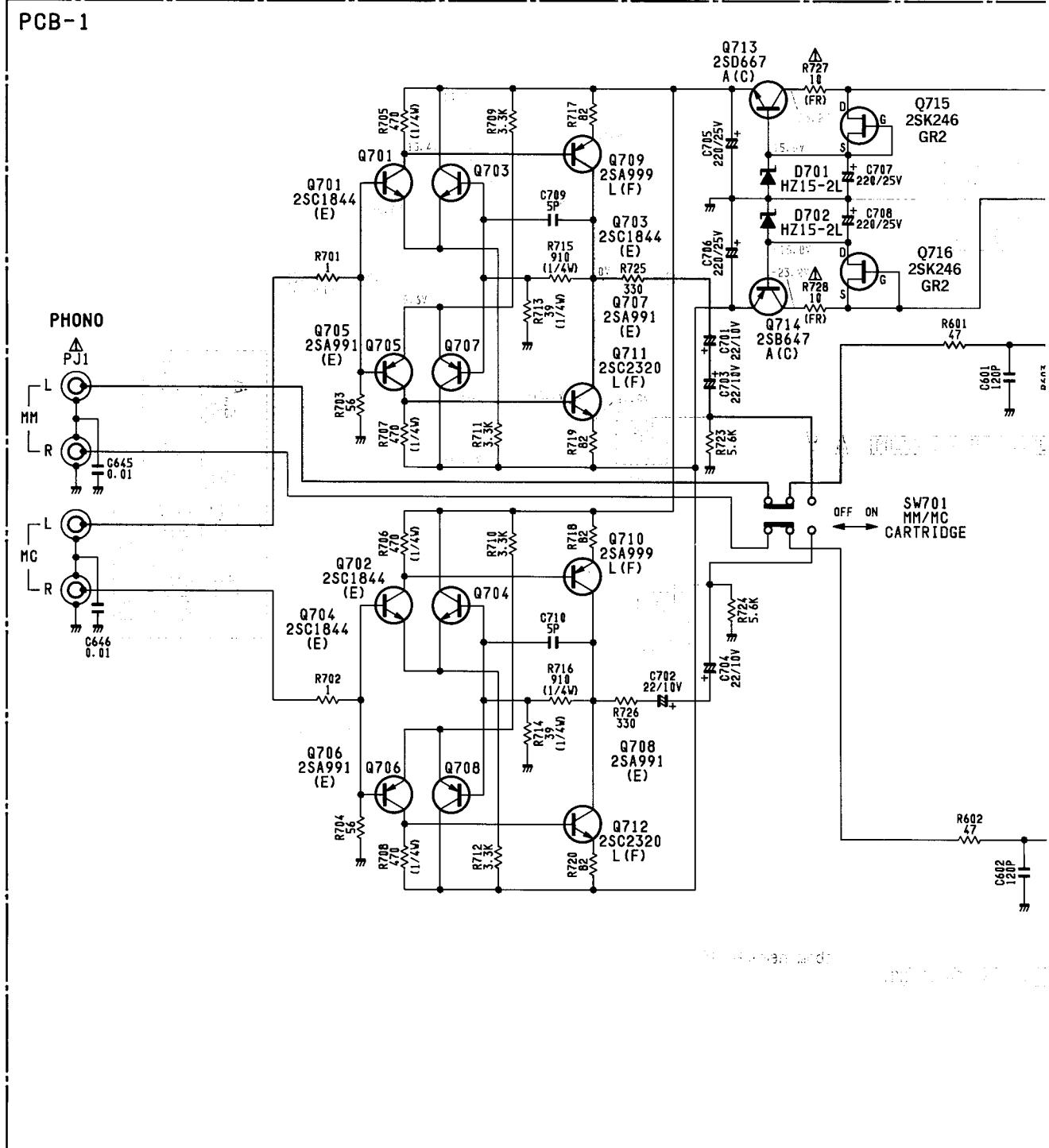


SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.

## BLOCK DIAGRAM



## SCHEMATIC DIAGRAM (PHONO AMP SECTION)



**NOTE:**

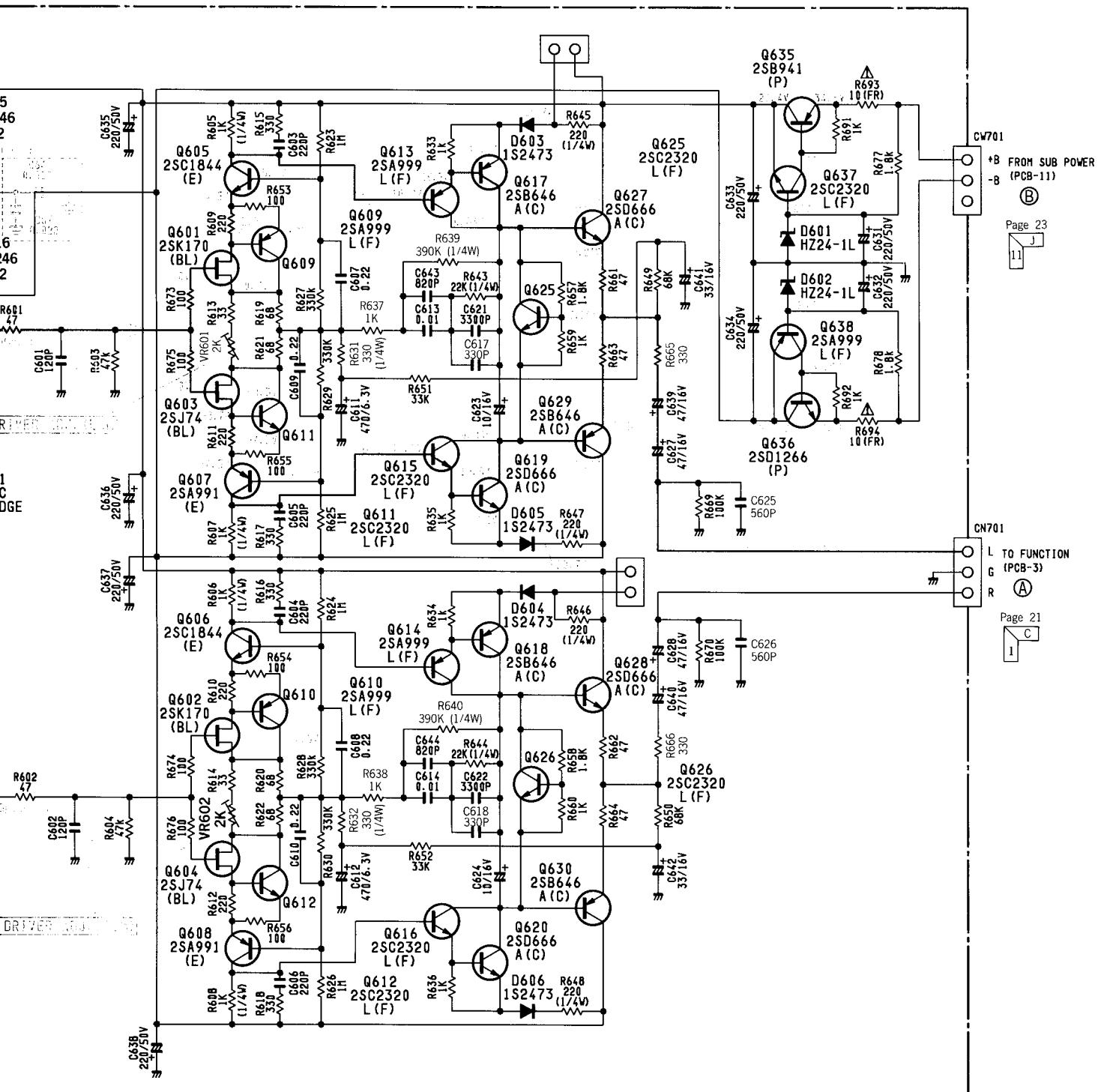
1. ALL RESISTANCES VALUES ARE IN  $\Omega$ .  
 $K\Omega=1000\Omega$ ,  $M\Omega=1000K\Omega$ .

2. THE WATTAGE OF RESISTORS IS 1/2W UNLESS OTHERWISE NOTED.

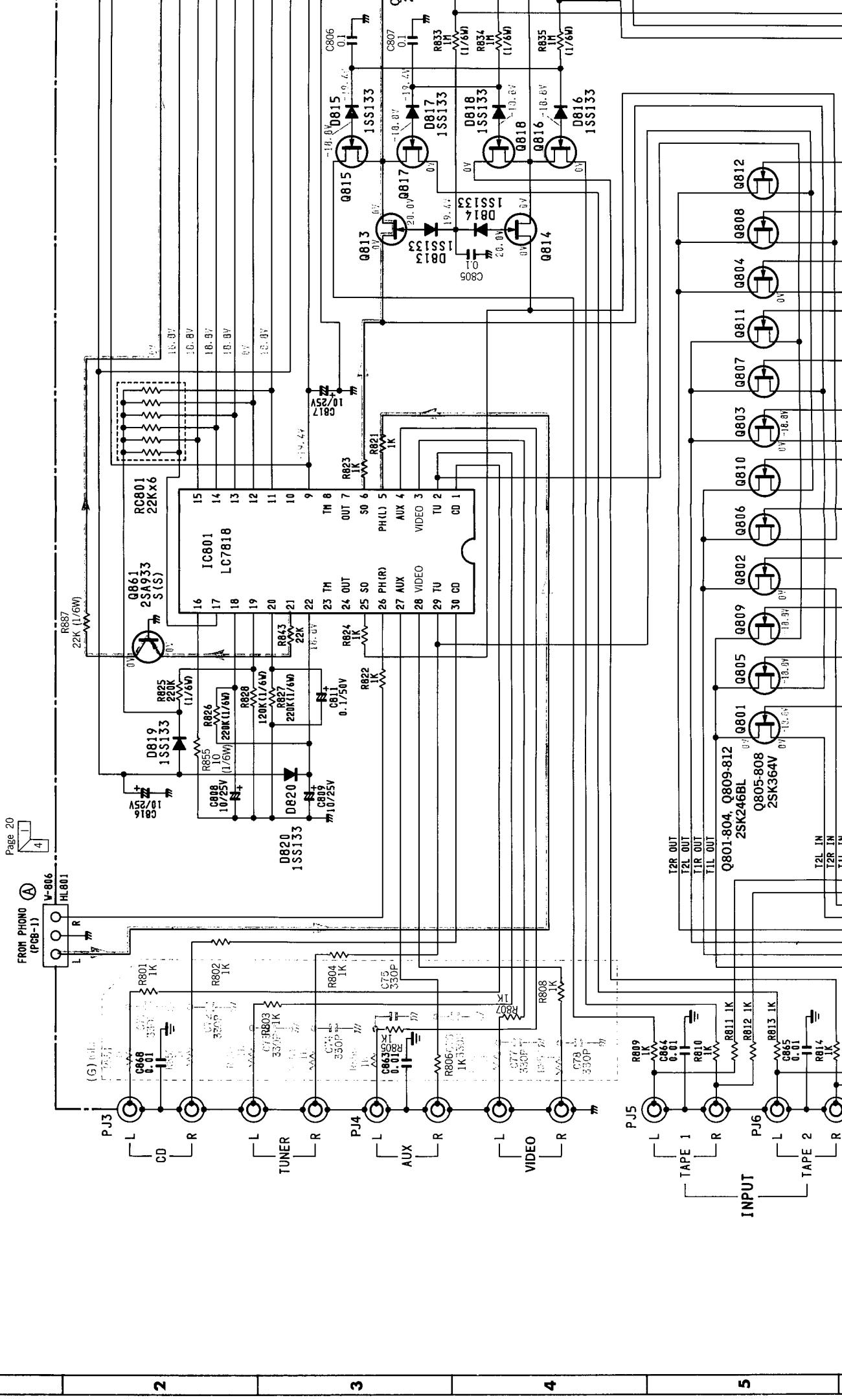
3. ALL CAPACITANCES VALUES ARE IN  $\mu F$  UNLESS OTHERWISE NOTED.  $P=\mu\mu F$ .

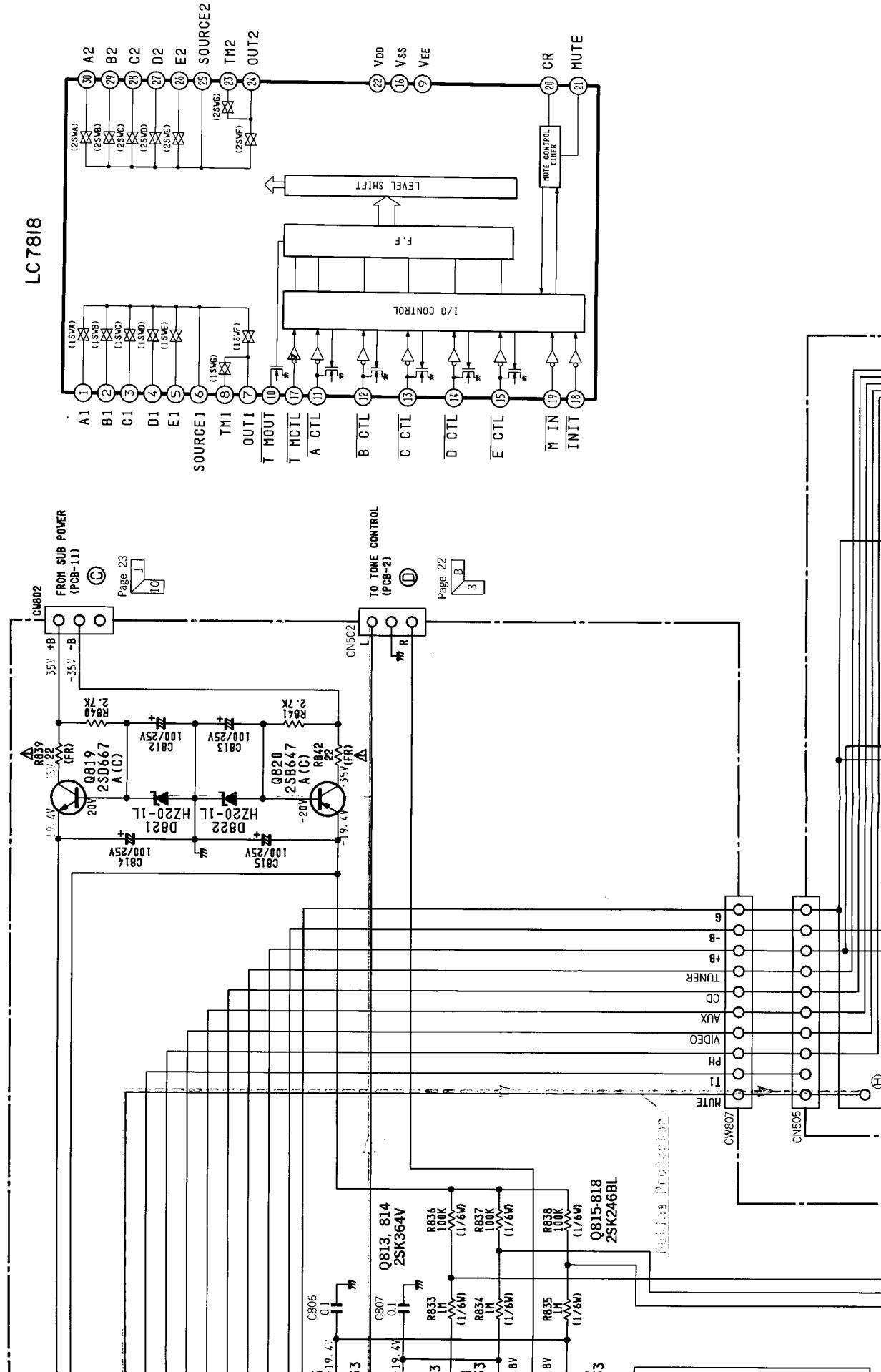
4. ...V:DC VOLTAGE AT NO SIGNAL UNLESS OTHERWISE NOTED.

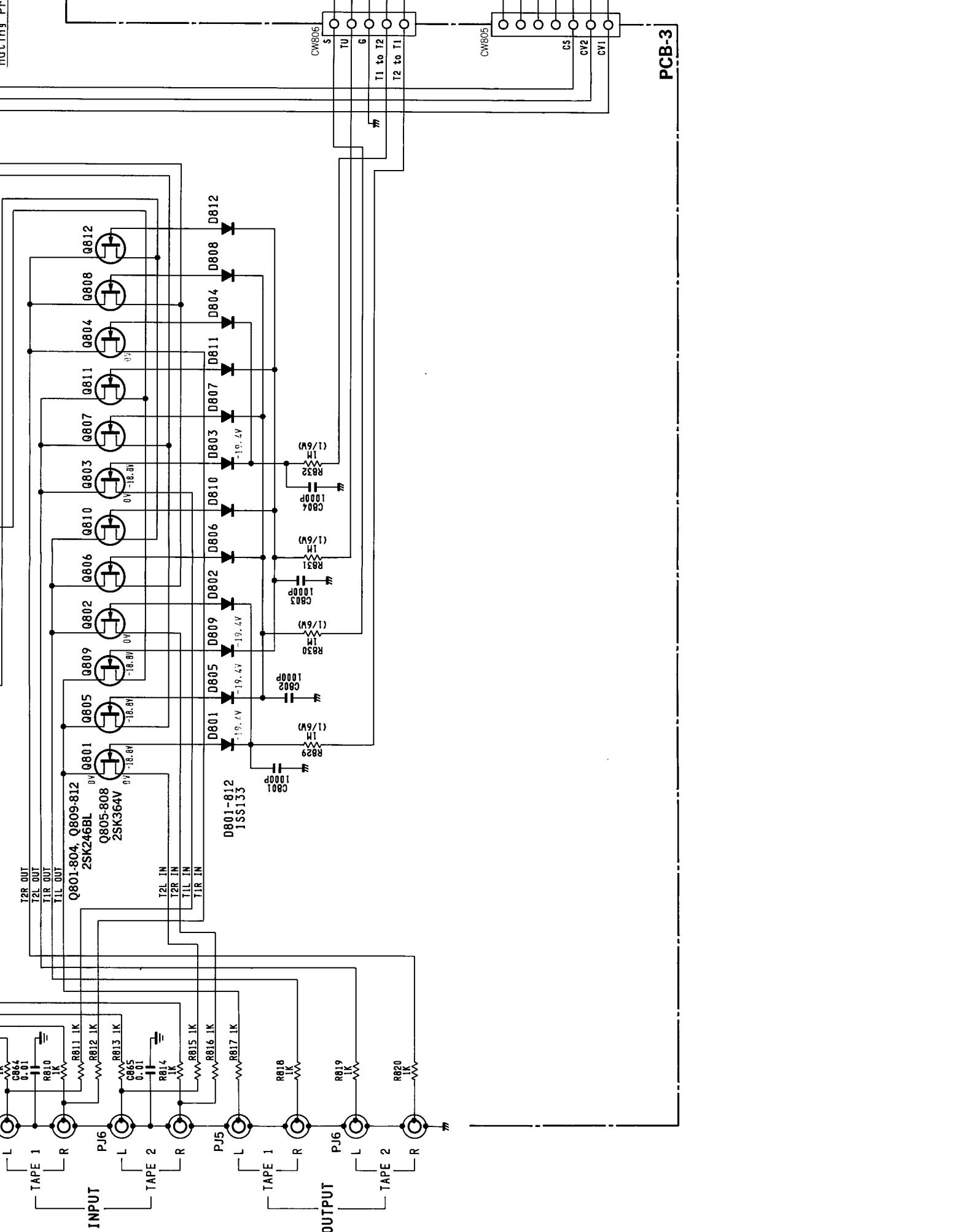
5. ! SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT  
SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED  
BY ORIGINAL PARTS.

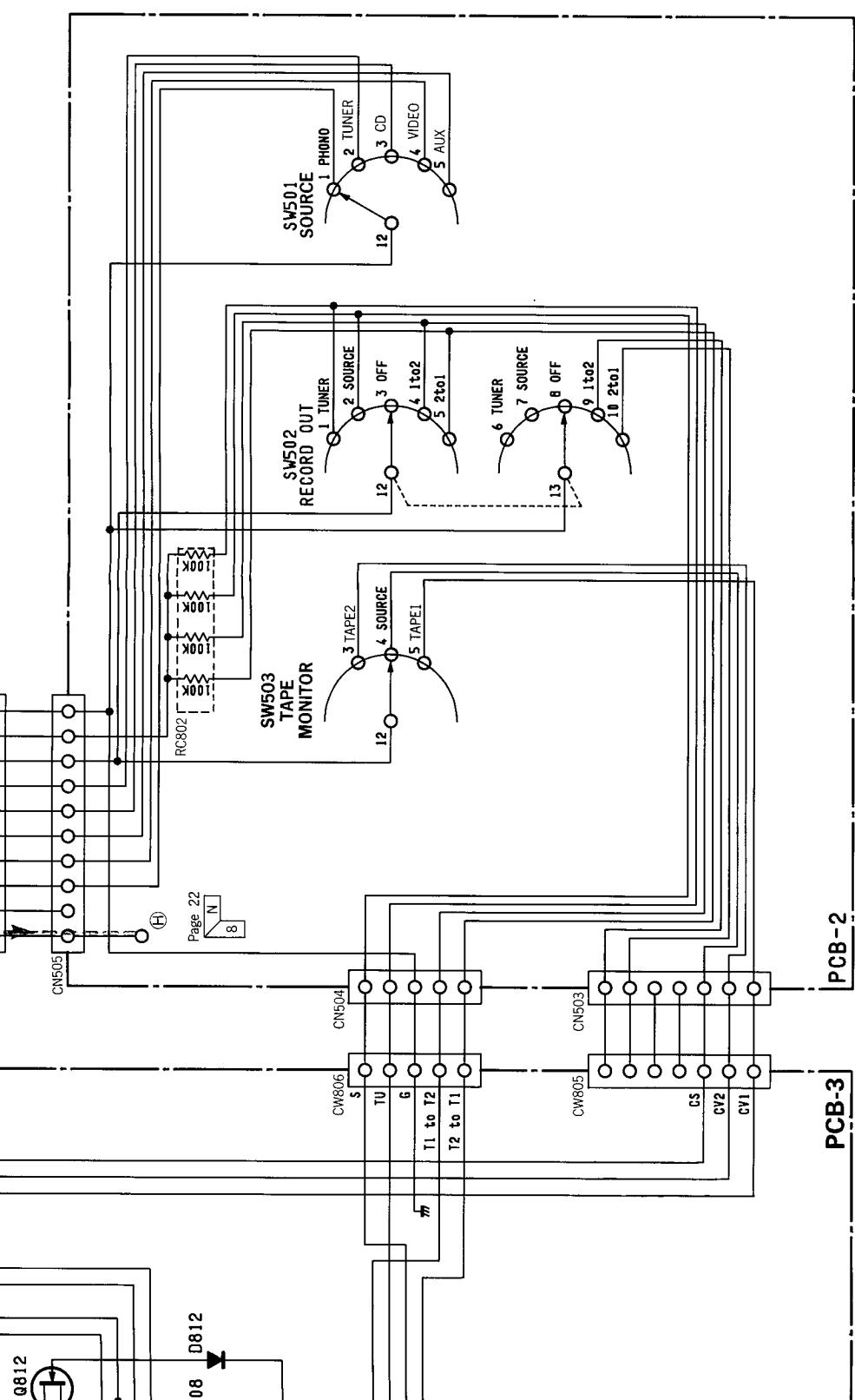


## SCHEMATIC DIAGRAM (FUNCTION & VIDEO SECTION)



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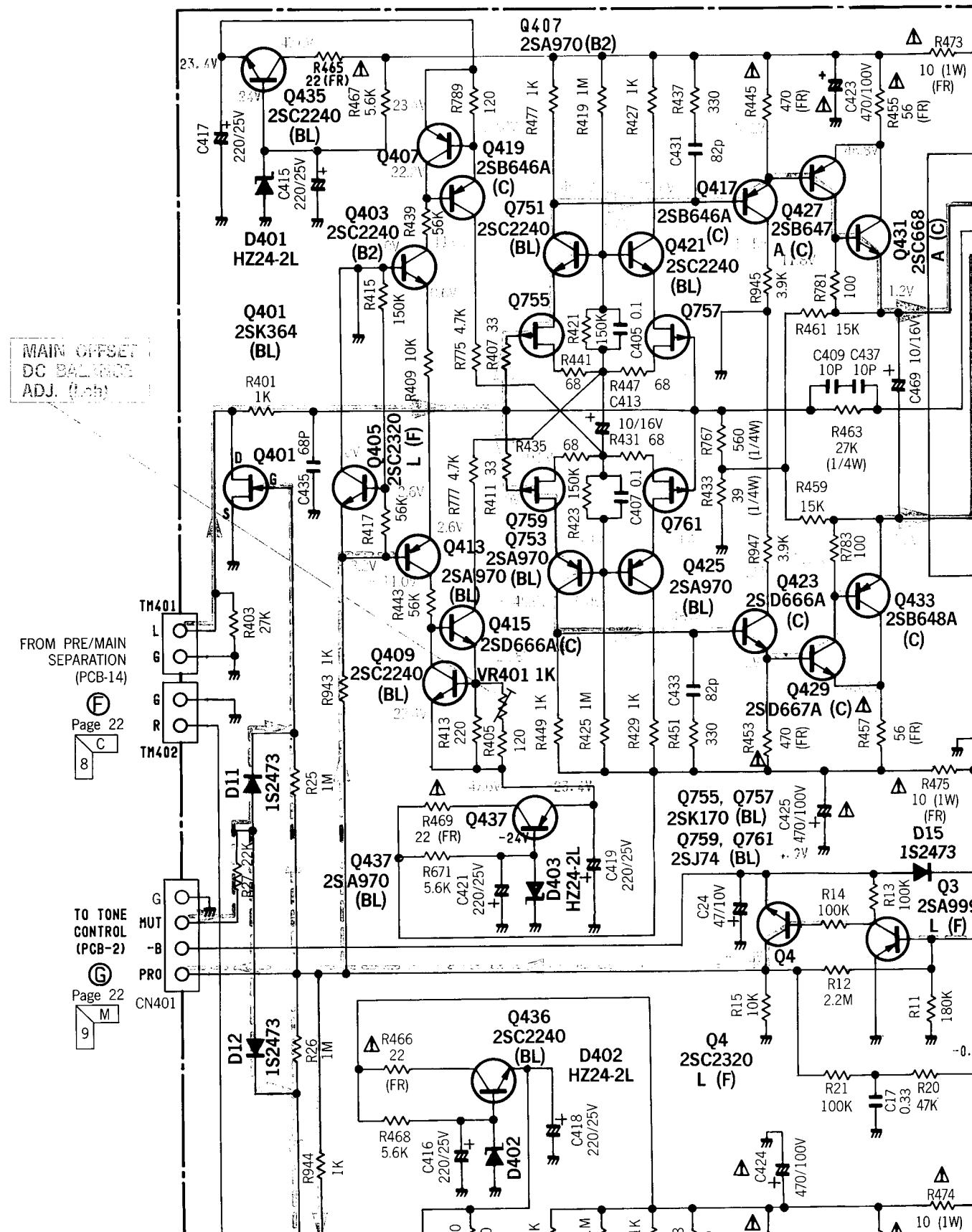
NOTE:

1. ALL RESISTANCES VALUES ARE IN  $\Omega$ .
2. THE WATTAGE OF RESISTORS IS  $1/2W$  UNLESS OTHERWISE NOTED.  
 $K\Omega=1000\Omega$ ,  $M\Omega=1000K\Omega$ .
3. ALL CAPACITANCES VALUES ARE IN  $\mu F$  UNLESS OTHERWISE NOTED.  $P=\mu\mu F$ .
4. ... V:DC VOLTAGE AT NO SIGNAL UNLESS OTHERWISE NOTED.
5. SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT  
SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED  
BY ORIGINAL PARTS.

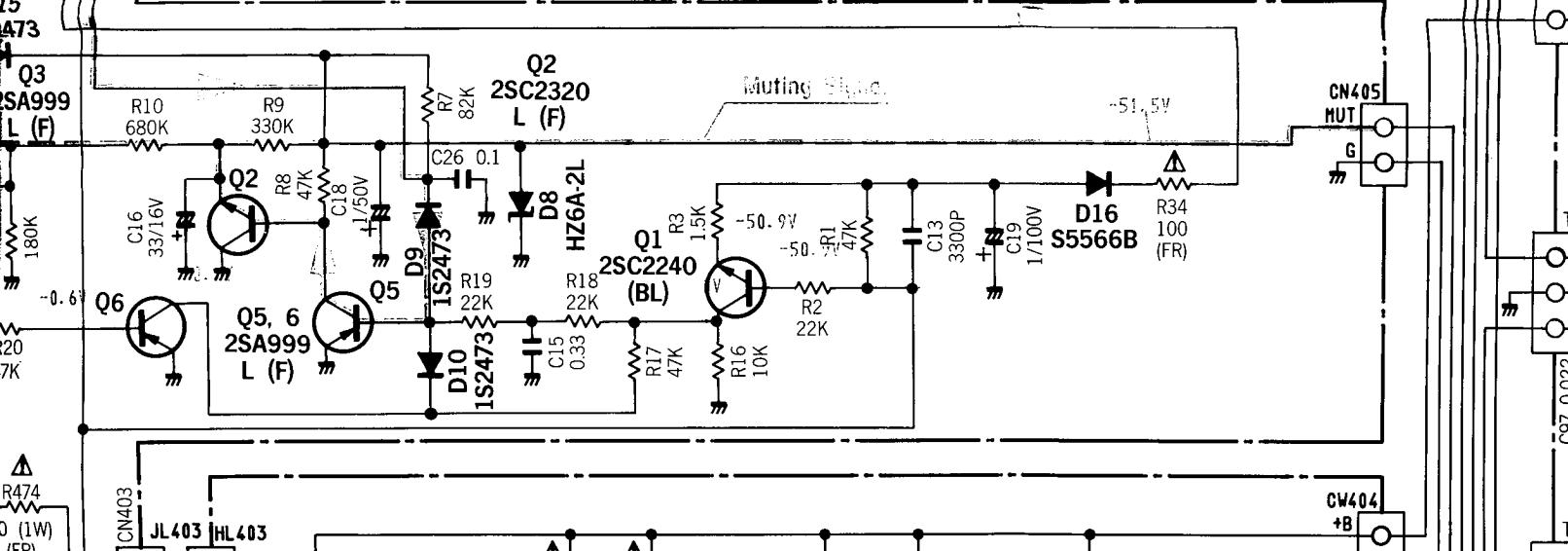
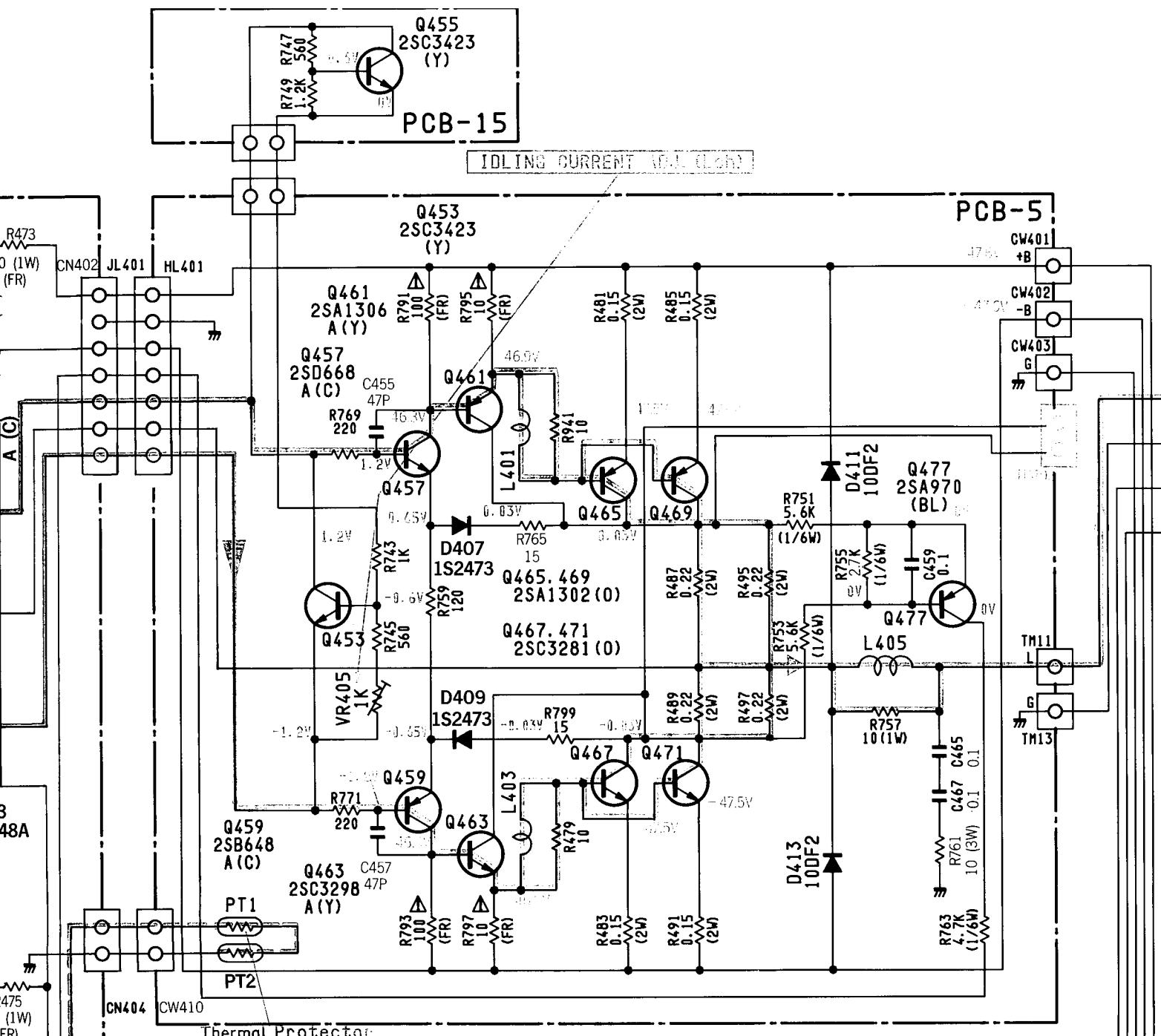
PCB-2

PCB-3

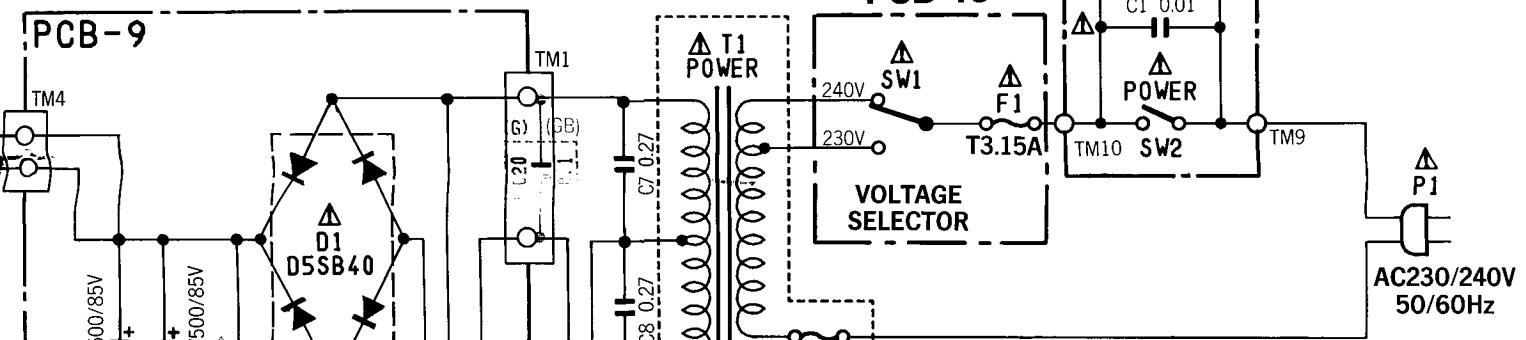
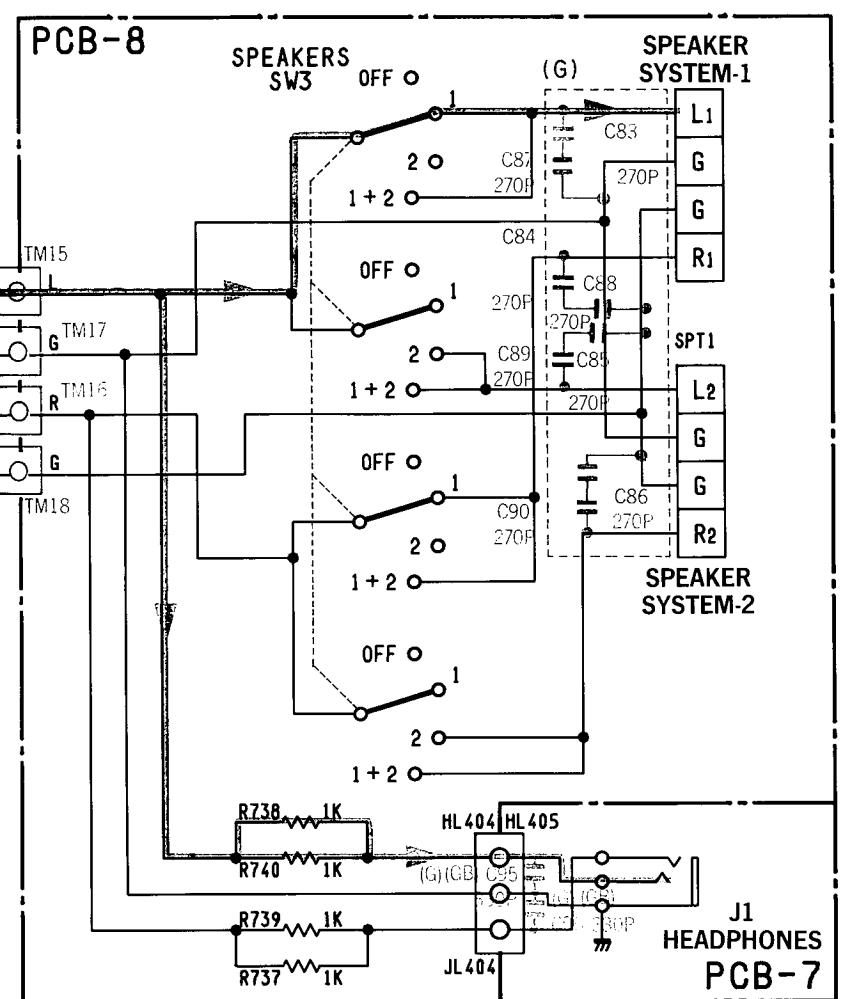
## **SCHEMATIC DIAGRAM (POWER AMP SECTION)**



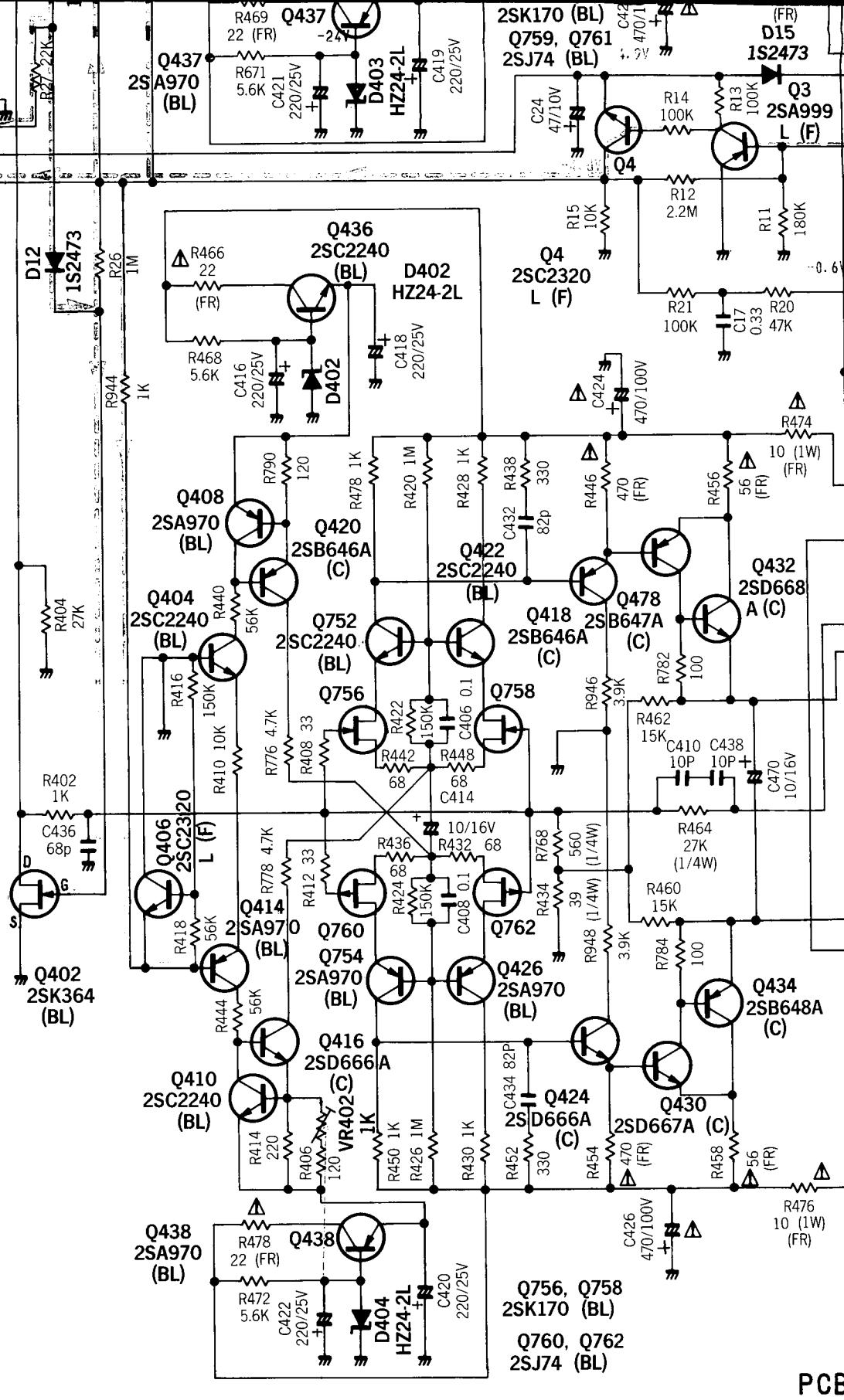
F G H I J K



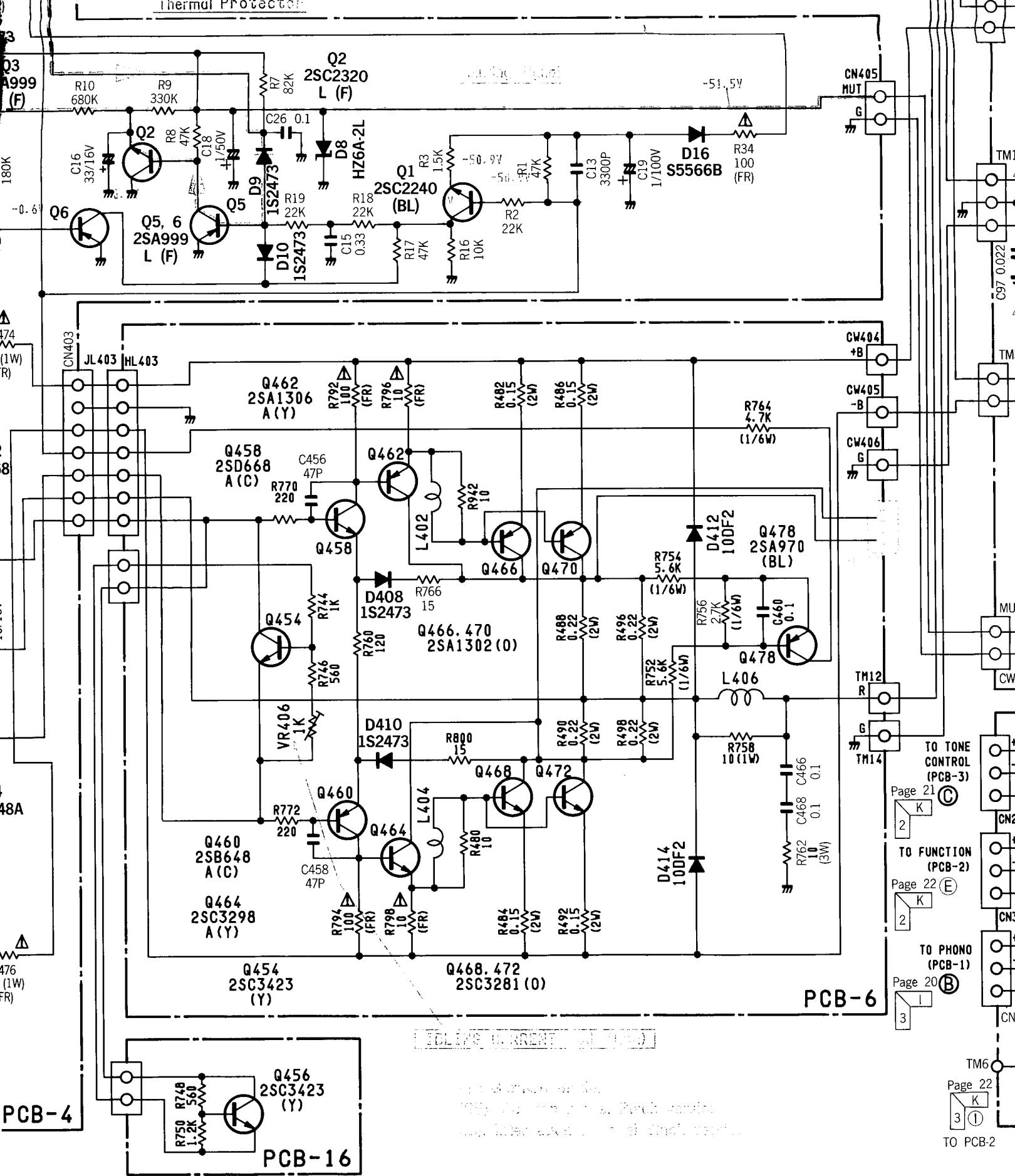
K L M N O P

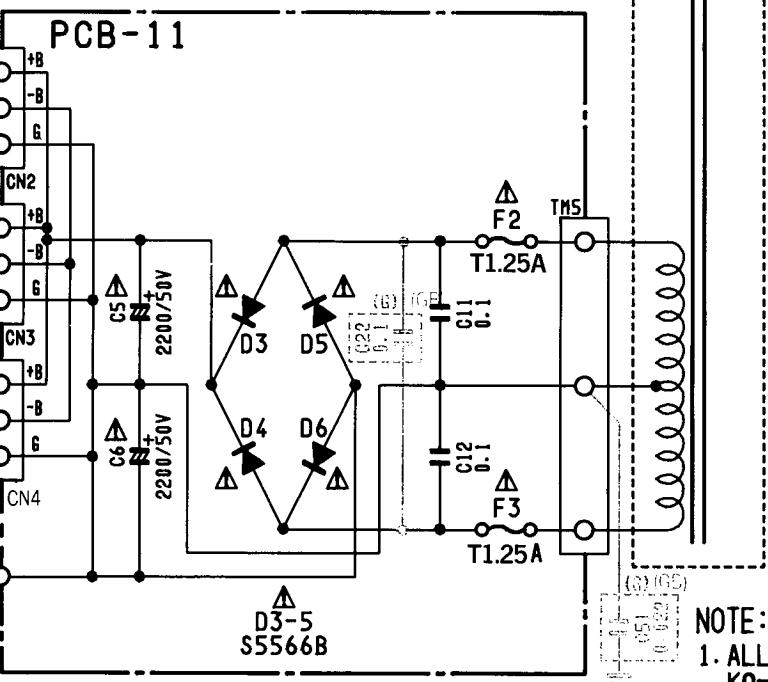
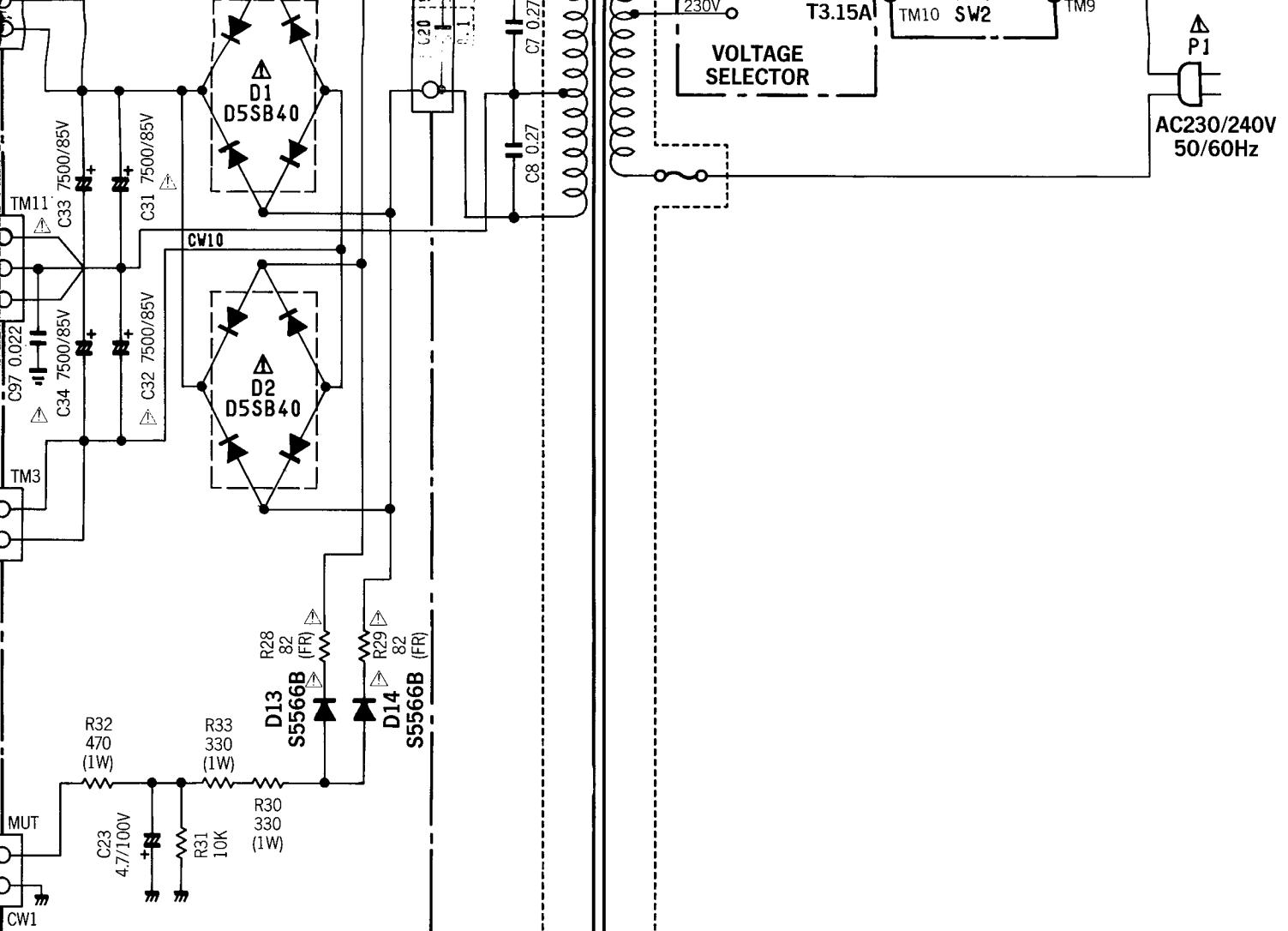


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CN401



PCE



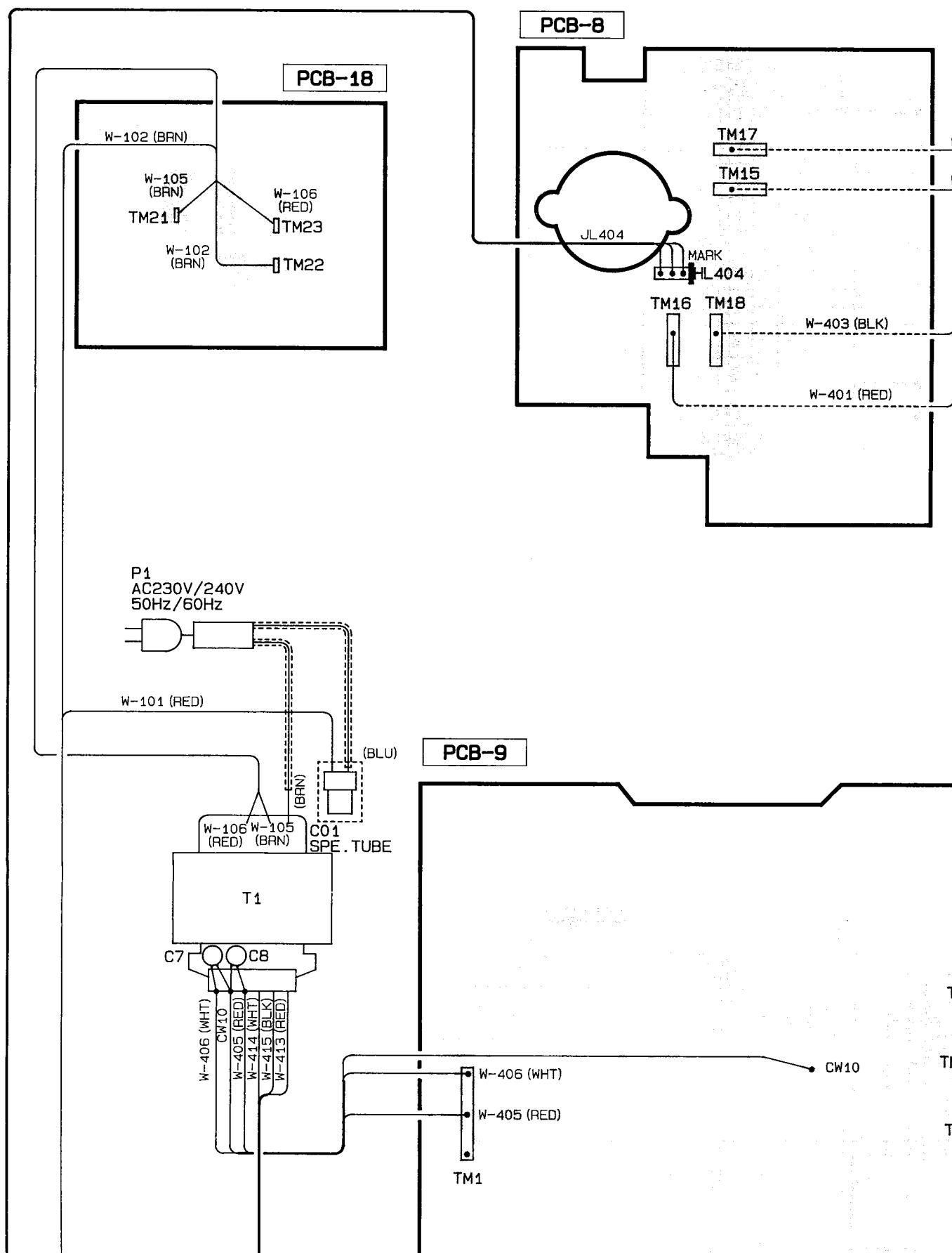


#### NOTE:

1. ALL RESISTANCES VALUES ARE IN  $\Omega$ .  
 $K\Omega=1000\Omega$ ,  $M\Omega=1000K\Omega$ .
2. THE WATTAGE OF RESISTORS IS 1/2W UNLESS OTHERWISE NOTED.
3. ALL CAPACITANCES VALUES ARE IN  $\mu F$  UNLESS OTHERWISE NOTED.  $P=\mu\mu F$
4. ... V:DC VOLTAGE AT NO SIGNAL UNLESS OTHERWISE NOTED.
5. SAFETY REQUIREMENTS COMPONENTS IN ACCORDANCE WITH PRESENT SAFETY REGULATIONS. THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.

A B C D E

## WIRING DIAGRAM



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PCB-3

- 10 -

CN2  
CWB02  
BED

PCB-6


 CW507  
 CW512 GND  
 W-417  
 W-416  
 METAL  
 FITTING

CC401

MARK

PCB-15

PCB-5

10 of 10

K

L

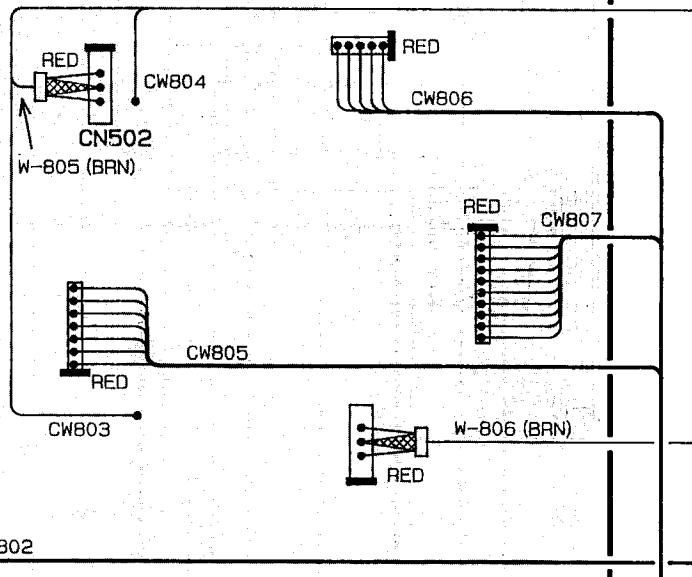
M

N

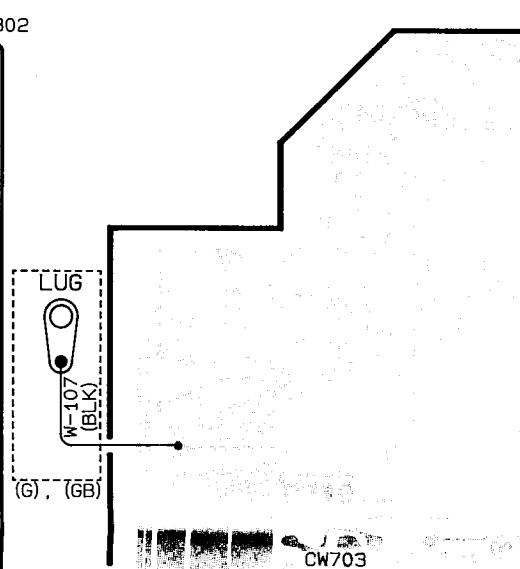
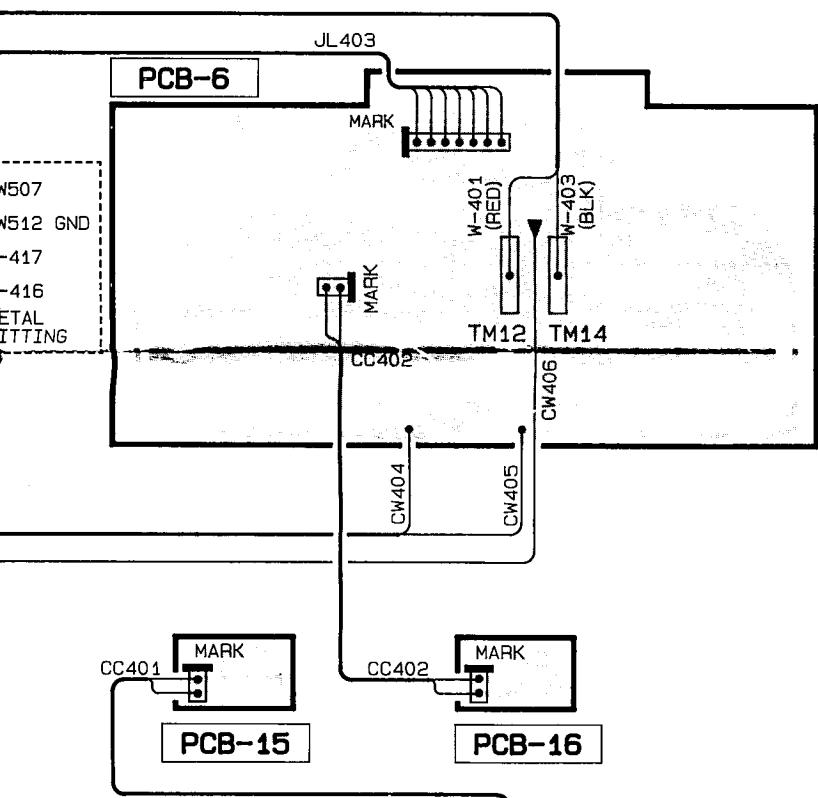
O

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PCB-14



CW802



PCB-5

402 401 CC401

W-805 (BROWN)

M

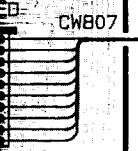
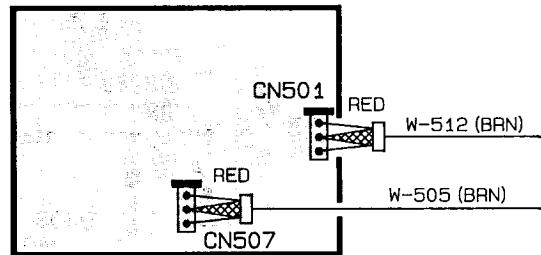
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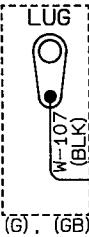
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PCB-14



W-806 (BRN)

CW802

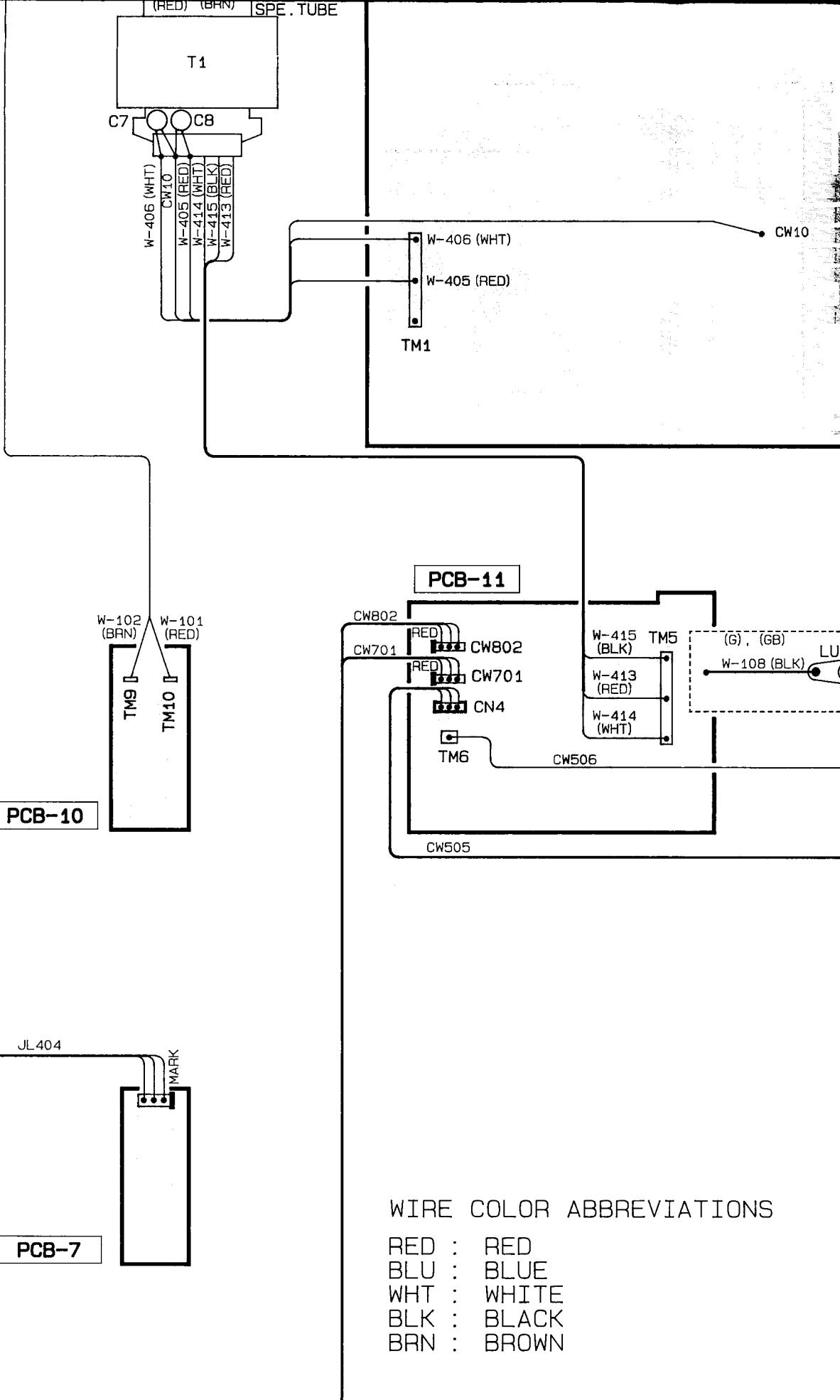


(G), (GB)

CW703

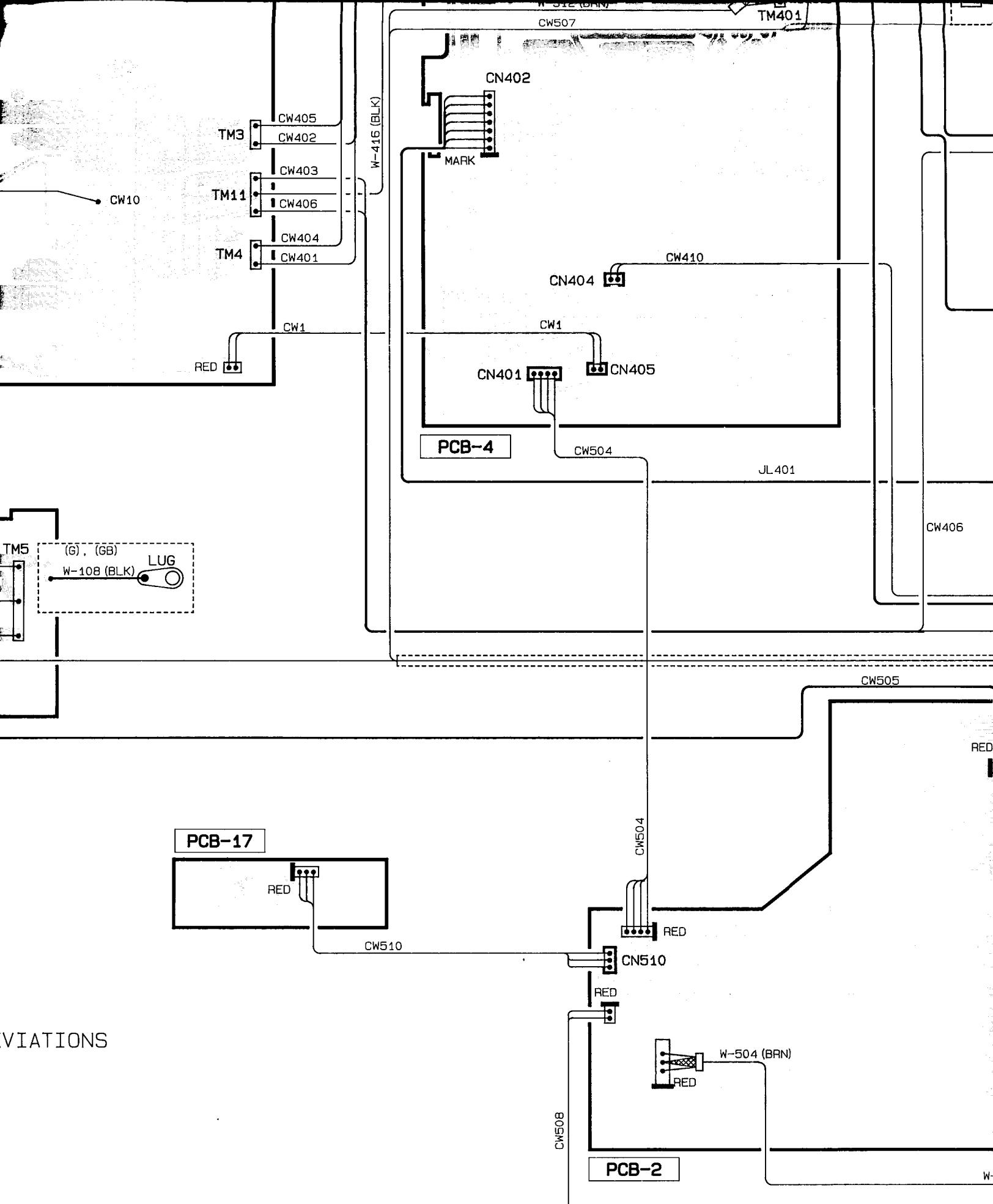
W-805 (BROWN)

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#### WIRE COLOR ABBREVIATIONS

- RED : RED
- BLU : BLUE
- WHT : WHITE
- BLK : BLACK
- BRN : BROWN



VIATIONS

