

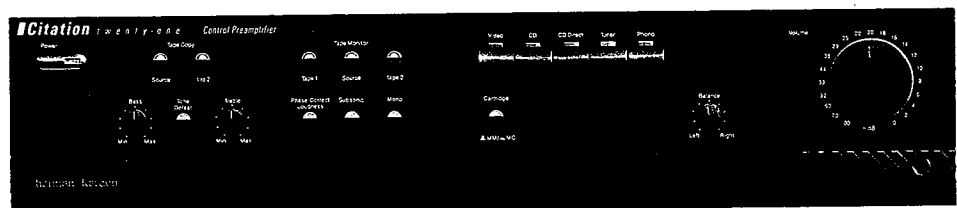
218

# The Harman Kardon Model Citation21

Manual 112A

## STEREO PREAMPLIFIER

# Technical Manual



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

- UA : North America area model
- G : General model
- N : Japan model

## SPECIFICATIONS

|                               | Nominal                 | Limit |
|-------------------------------|-------------------------|-------|
| Input Sensitivity/Impedance   |                         |       |
| Phono(MM)                     | 2.2mV/47k $\Omega$      |       |
| (MC)                          | 125 $\mu$ V/56 $\Omega$ |       |
| Tuner, CD, Video, Tape        | 130mV/23k $\Omega$      |       |
| Hum and Noise Ratio           |                         |       |
| Phono(MM)                     | 78dB $\geq$             | 74dB  |
| (MC)                          | 73dB $\geq$             | 69dB  |
| Tuner, CD, Video, Tape        | 84dB $\geq$             | 80dB  |
| Signal to Noise Ratio (IHF-A) |                         |       |
| Phono(MM)                     | 84dB $\geq$             | 80dB  |
| (MC)                          | 78dB $\geq$             | 74dB  |
| Tuner, CD, Video, Tape        | 94dB $\geq$             | 90dB  |
| Channel Separation            |                         |       |
| Phono(MM)                     | 54dB $\geq$             | 50dB  |
| (MC)                          | 55dB $\geq$             | 50dB  |
| Tuner, CD, Video, Tape        | 56dB $\geq$             | 50dB  |
| Overload (20~20kHz)           |                         |       |
| Phono(MM)                     | 165mV $\geq$            | 150mV |
| (MC)                          | 9.2mV $\geq$            | 5mV   |

|                              | Nominal                    | Limit |
|------------------------------|----------------------------|-------|
| THD at 1V Output (1kHz)      |                            |       |
| Tuner, CD, Video, Tape       | 0.005% $\leq$              | 0.01% |
| Frequency Response at -3dB   | 0.25Hz ~ 245kHz            |       |
| Subsonic Filter at 20Hz      | -3dB $\pm$                 | 1dB   |
| Tone Control Characteristics |                            |       |
| Bass at 50Hz                 |                            |       |
| Boost                        | 9.5dB $\pm$                | 1dB   |
| Cut                          | 11dB $\pm$                 | 1dB   |
| Treble at 10kHz              |                            |       |
| Boost                        | 9dB $\pm$                  | 1dB   |
| Cut                          | 9dB $\pm$                  | 1dB   |
| Dimensions (W x H x D)       | 17-3/8" x 3-1/2" x 13-5/8" |       |
|                              | (440 x 90 x 345mm)         |       |
| Weight                       |                            |       |
| Power Supply                 |                            |       |
| North America area model     | AC 120V, 60Hz              |       |
| General model                | AC220/240V, 50/60Hz        |       |
| Japan model                  | AC100V, 50/60Hz            |       |
| Power Consumption            | 25W                        |       |

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

This specification is the target of servicing. But, there is a case that specification is not applicable to the measurement condition and instrument.

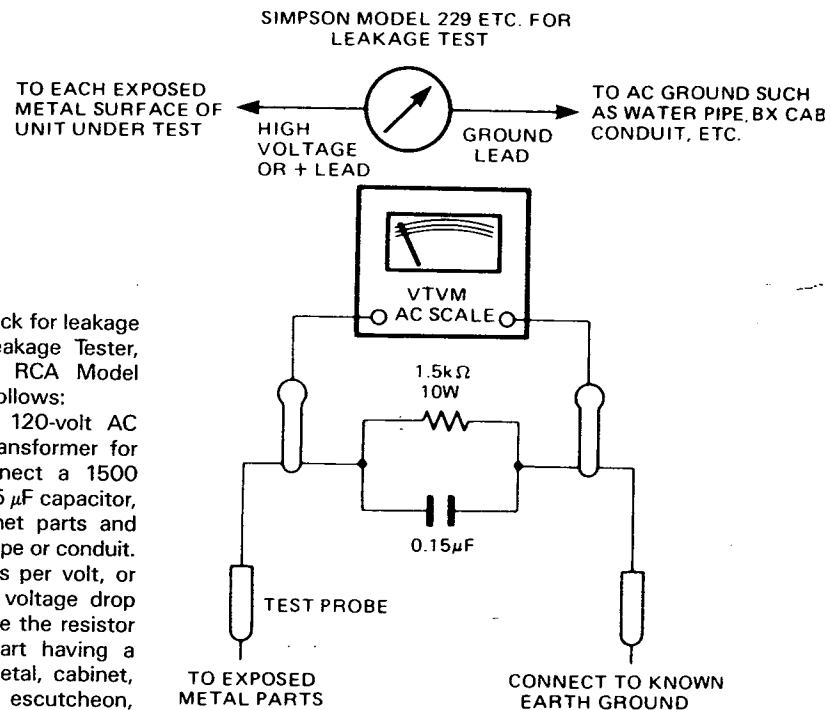
## LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

Before returning the unit to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Be sure that any protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc. which were removed for servicing are properly reinstalled.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows:

Plug the power cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 Ohm, 10-watt resistor paralleled by a 0.15  $\mu$ F capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 Ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.)

A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.



## DISASSEMBLY PROCEDURES (REFER TO PAGES 4, 5, 6, 7 AND 15)

### ① CABINET TOP REMOVAL

Remove 6 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 5 screws (B) and then remove the Front Panel Ass'y (AA).

### ③ MAIN P.C.BOARD (PCB-1) REMOVAL

1. Remove the Front Panel Ass'y (AA), referring to the previous step ②.
2. Open the lid of connectors (CN107, CN108, CN109 and CN110) on the Tape Switches P.C.Board (PCB-2) and then disconnect the lead wires.
3. Remove 4 screws (C) and then remove the Tape Switches P.C.Board (PCB-2).
4. Open the lid of connector (CN112) on the EQ Amp. P.C.Board (PCB-4) and then disconnect the lead wires.

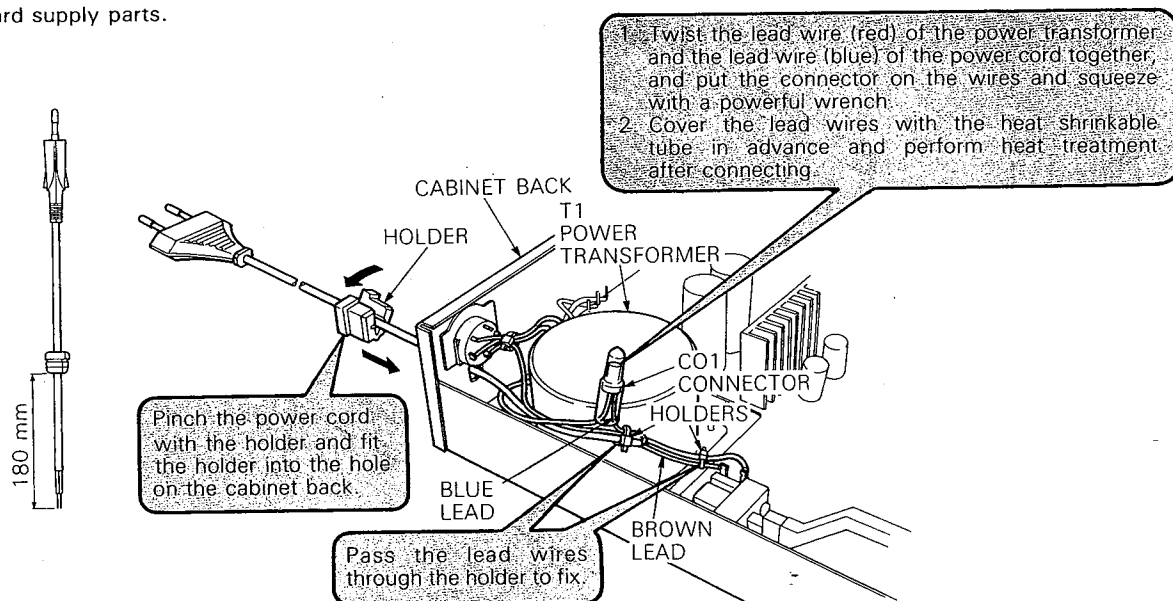
5. Pull off Volume, Bass, Treble and Balance kobs (142 and 147).
6. Remove 15 screws (D) and 4 hexagon nut (E) and then remove the Front Chassis (161) with the Indicators P.C.Board (PCB-3).
7. Open the lid of connectors (CN101, CN102, CN103, CN104 and CN105) on the EQ Amp. P.C.Board (PCB-4) and then disconnect the lead wires.
8. Remove 4 screws (F) and then remove the Main P.C. Board (PCB-1).  
If necessary, unsolder the lead wires connected to the PCB-1.

### ④ EQ AMP. P.C.BOARD (PCB-4) REMOVAL

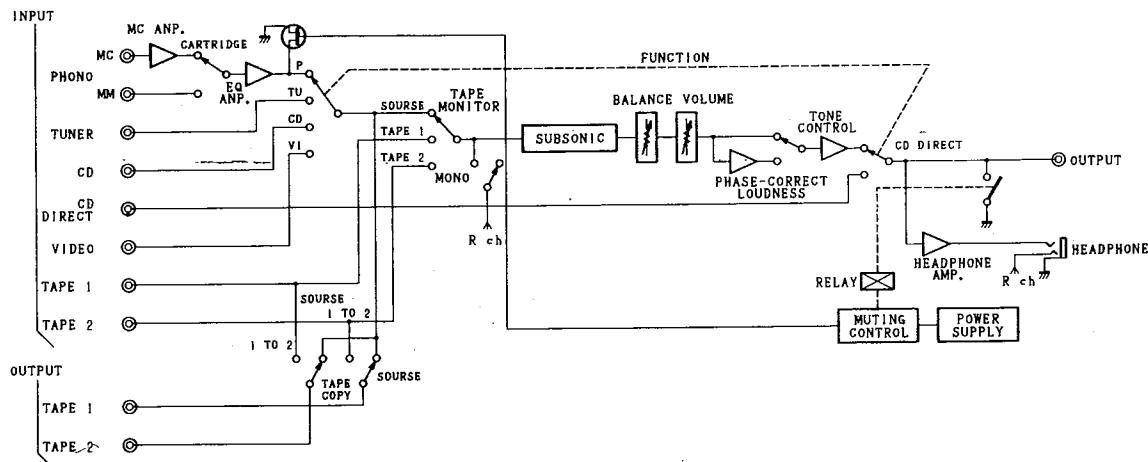
1. Remove the Front Chassis (161), referring to the previous step ③.
2. Open the lid of connectors (CN101, CN102, CN103, CN104 and CN105) on the EQ Amp. P.C.Board (PCB-4) and then disconnect the lead wires.
3. Remove 6 screws (G) and then remove the EQ Amp. P.C.Board (PCB-4).

## POWER CORD REPLACEMENT (FOR SERVICE ENGINEERS OTHER THAN NORTH AMERICA)

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

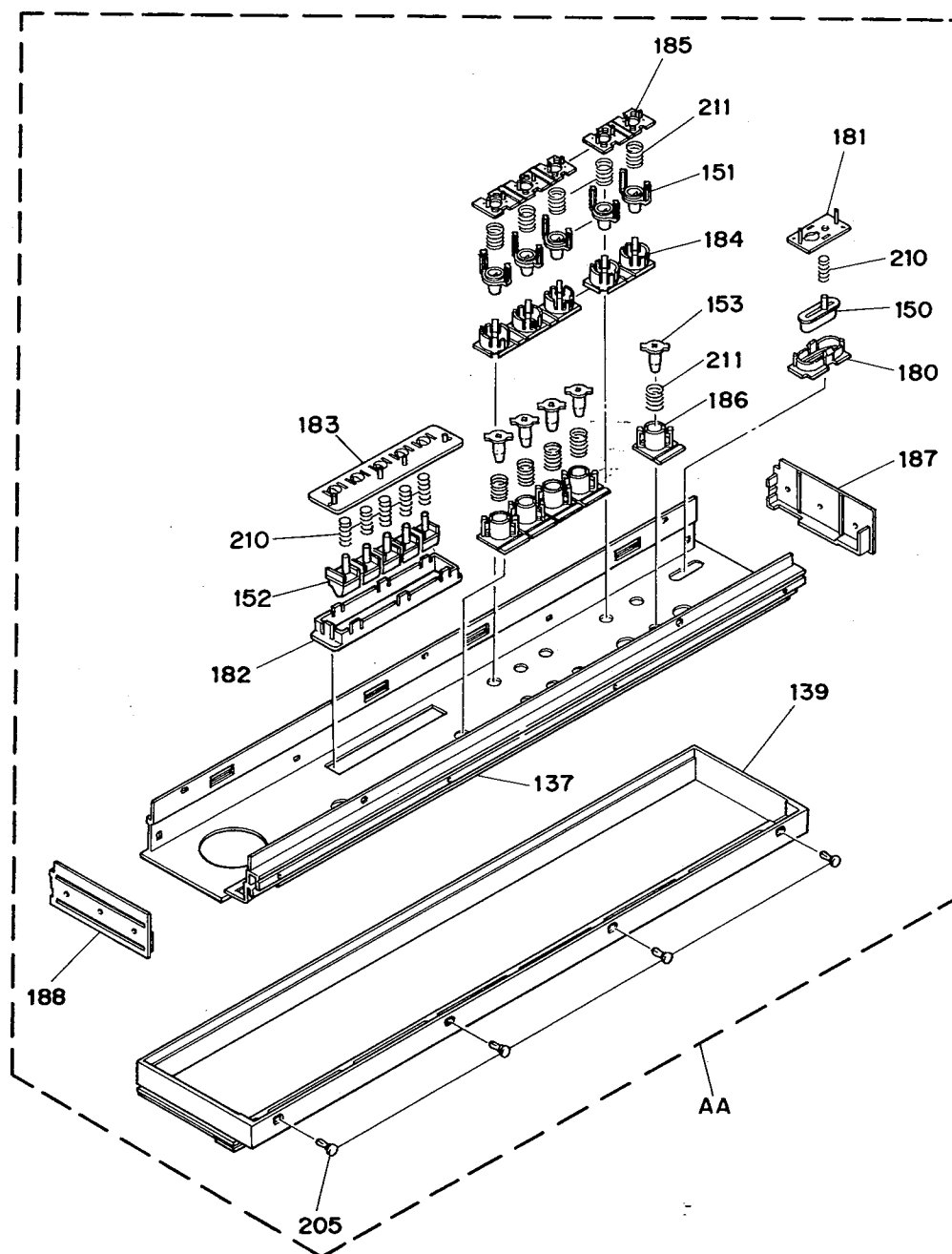


## BLOCK DIAGRAM



## GENERAL UNIT

EXPLODED VIEW (FRONT PANEL ASS'Y)



## PARTS LIST

| Ref. No. | Part No.   | Description       | Ref. No. | Part No.     | Description          |
|----------|------------|-------------------|----------|--------------|----------------------|
| AA       | A443-H202A | FRONT PANEL ASS'Y | 183      | 2240-7301    | HOLDER, FUNCTION     |
| 137      | 1443-10701 | PANEL             | 184      | 2240-7302    | HOLDER               |
| 139      | 1562-05501 | FRAME             | 185      | 2240-7303    | HOLDER               |
| 150      | 1662-30401 | PUSH BUTTON       | 186      | 2240-7304    | HOLDER               |
| 151      | 1662-30701 | PUSH BUTTON       | 187      | 2240-7305    | HOLDER, L SIDE       |
| 152      | 1662-30801 | PUSH BUTTON       | 188      | 2240-7306    | HOLDER, R SIDE       |
| 153      | 1662-30901 | PUSH BUTTON       | 205      | 2459-3005511 | PLASTIC RIVET, FRAME |
| 180      | 2240-7290  | HOLDER, POWER     | 210      | 2651-2101727 | SPRING               |
| 181      | 2240-7291  | HOLDER, POWER     | 211      | 2651-210189  | SPRING               |
| 182      | 2240-7300  | HOLDER, FUNCTION  |          |              |                      |

The diagram is an exploded view of a computer chassis. It shows the following components and their assembly relationships:

- Power Supply:** Located at the top left, connected to the main chassis via a power cable (P1) and a connector (S01).
- Motherboard:** The central component, with various slots and connectors. It is secured to the chassis with screws (225, 232, 230) and standoffs (173, 174, 175, 176, 177, 178, 179).
- Drives:** Two 3.5-inch floppy disk drives (133, 133B) and a hard drive (133A) are shown being installed into the chassis. They are secured with screws (225, 232, 230) and standoffs (173, 174, 175, 176, 177, 178, 179).
- Cooling Fans:** Two fans (199, 200) are shown being installed into the chassis. They are secured with screws (225, 232, 230) and standoffs (173, 174, 175, 176, 177, 178, 179).
- Other Components:** Various other components like the keyboard (171), mouse (172), and system unit (173) are shown being installed into the chassis. They are secured with screws (225, 232, 230) and standoffs (173, 174, 175, 176, 177, 178, 179).

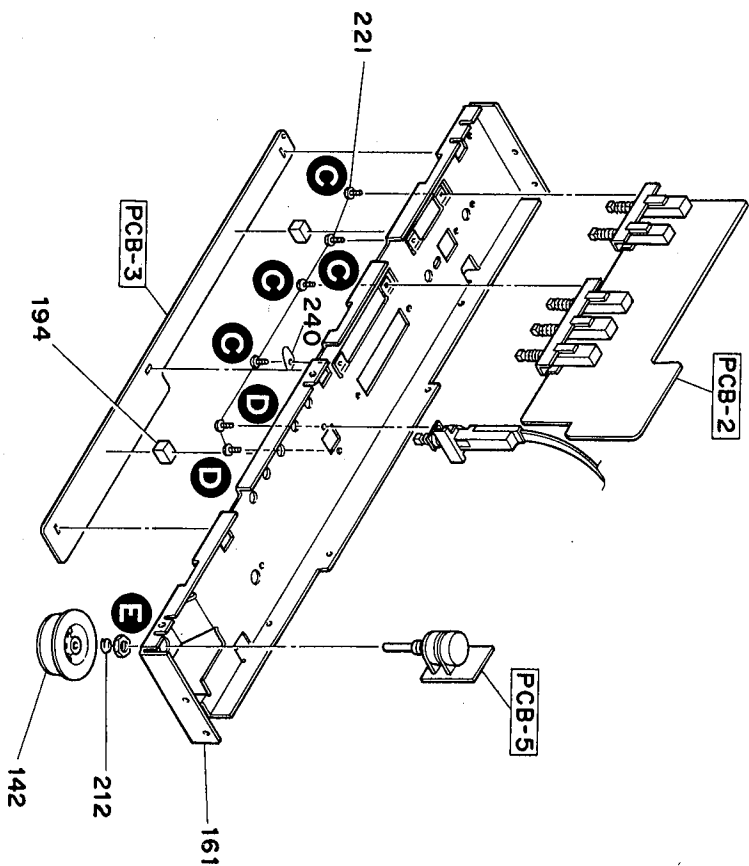
The diagram includes numerous callouts for specific parts and assembly instructions, such as "Nuts attached to the VR" and "Nuts attached to the VR".

**PARTS LIST**

| Ref. No. | Part No.      | QTY | Part No. | QTY           |
|----------|---------------|-----|----------|---------------|
| 025A     | 2132-7116     | 1   | 025A     | 2132-7116     |
| 026A     | 2327-R0130124 | 1   | 026A     | 2327-R0130124 |
| 027A     | 2440-7017     | 1   | 027A     | 2440-7017     |
| 030A     | 2219-7941     | 1   | 030A     | 2219-7941     |
| 031A     | 2327-R0310064 | 1   | 031A     | 2327-R0310064 |
| 032A     | 2323-300849   | 1   | 032A     | 2323-300849   |
| 131      | 1414-09401    | 1   | 131      | 1414-09401    |
| 133      | 1424-21601    | 1   | 133      | 1424-21601    |
| 133A     | 1424-21603    | 1   | 133A     | 1424-21603    |
| 133B     | 1424-21602    | 1   | 133B     | 1424-21602    |
| 147      | 1632-15801    | 1   | 147      | 1632-15801    |
| 163      | 2218-7001     | 1   | 163      | 2218-7001     |
| 169      | 2219-8151     | 1   | 169      | 2219-8151     |
| 173      | 2222-7217     | 1   | 173      | 2222-7217     |
| 174      | 2222-7218     | 1   | 174      | 2222-7218     |
| 175      | 2222-7218     | 1   | 175      | 2222-7218     |
| 176      | 2222-7218     | 1   | 176      | 2222-7218     |
| 177      | 2240-364      | 1   | 177      | 2240-364      |
| 178      | 2240-7183     | 1   | 178      | 2240-7183     |
| 179      | 2360-7014     | 1   | 179      | 2360-7014     |
| 198      | 2310-7036     | 1   | 198      | 2310-7036     |
| 199      | 2410-7018     | 1   | 199      | 2410-7018     |
| 200      | 2440-7027     | 1   | 200      | 2440-7027     |
| 201      | 2440-7016     | 1   | 201      | 2440-7016     |
| 206      | 2402-0374     | 1   | 206      | 2402-0374     |
| 207      | 2601-7165     | 1   | 207      | 2601-7165     |
| 216      | 2320-34       | 1   | 216      | 2320-34       |
| 217      | 2320-34       | 1   | 217      | 2320-34       |
| 221      | 2327-R0130064 | 1   | 221      | 2327-R0130064 |
| 225      | 2340-7003     | 1   | 225      | 2340-7003     |
| 227      | 2340-7008     | 1   | 227      | 2340-7008     |
| 230      | 2347-R0130064 | 1   | 230      | 2347-R0130064 |
| 232      | 2347-R0130084 | 1   | 232      | 2347-R0130084 |
| P1       | 4161-71151    | 1   | P1       | 4161-71151    |
| P1       | 4161-7256     | 1   | P1       | 4161-7256     |
| P1       | 4161-71148    | 1   | P1       | 4161-71148    |
| S01      | 4474-156      | 1   | S01      | 4474-156      |

| Ref. No. | Part No.         | Description                                                                                                     |
|----------|------------------|-----------------------------------------------------------------------------------------------------------------|
| 025A     | 2132-7116        | SPACER, VOLT SELECT        |
| 026A     | 2327-R0130124    | SCREW, VOLT SELECT         |
| 027A     | 2440-7017        | SPECIAL, NUT, VOLT SELECT  |
| 030A     | 2219-7941        | METAL FITTG, POWER SW      |
| 031A     | 2323-R0310064    | SCREW, POWER SW            |
| 032A     | 2337-300849      | SCREW, POWER SW            |
| 131      | 1414-09401       | CABINET TOP                                                                                                     |
| 133      | 1424-21601       | CABI BACK, REAR              |
| 133A     | 1424-21603       | CABI BACK, REAR              |
| 133B     | 1424-21602       | CABI BACK, REAR              |
| 147      | 1632-15801       | ROTARY KNOB                                                                                                     |
| 163      | 2218-7001        | BRACKET, WIRING                                                                                                 |
| 169      | 2219-8151        | METAL FITTG, HEADPHONE                                                                                          |
| 173      | 2222-7217        | HEAT SINK                                                                                                       |
| 174      | 2222-7218        | HEAT SINK                                                                                                       |
| 175      | 2222-7218        | HEAT SINK                                                                                                       |
| 177      | 2240-364         | HOLDER, AC CORD                                                                                                 |
| 179      | 2240-7183        | HOLDER, MC                                                                                                      |
| 196      | 2360-7014        | SPECIAL BOSS                                                                                                    |
| 198      | 2310-7036        | SPECIAL SCREW, GND                                                                                              |
| 199      | 2410-7018        | SPECIAL WASHER, GND                                                                                             |
| 200      | 2440-7027        | SPECIAL NUT, GND                                                                                                |
| 201      | 2440-7016        | SPECIAL NUT, GND                                                                                                |
| 206      | 2402-0374        | PLASTIC WASHER, HEADPHONE                                                                                       |
| 207      | 2601-7165        | SHAFT                                                                                                           |
| 216      | 2320-34          | SPECIAL SCREW, Tr                                                                                               |
| 217      | 2320-34          | SPECIAL SCREW, Tr                                                                                               |
| 221      | 2327-R0130064    | SCREW, SS/56                                                                                                    |
| 225      | 2340-7003        | SPECIAL SCREW                                                                                                   |
| 227      | 2340-7008        | SPECIAL SCREW, TOP COVER                                                                                        |
| 230      | 2347-R0130064    | SCREW                                                                                                           |
| 232      | 2347-R0130084    | SCREW, CABI BACK                                                                                                |
| P1       | 4161-71151       | CORD W/PLUG, AC CORD         |
| P1       | 4161-7256        | CORD W/PLUG, AC CORD         |
| P1       | 4161-71148       | CORD W/PLUG, AC CORD         |
| S01      | 4474-156         | SOCKET, AC OUTLET            |
| S101     | 4411-102729      | ROTARY SWITCH, VOLT SELECT   |
| T1       | 5584-701554      | XFORMER, POWER               |
| T1       | 5584-702453      | XFORMER, POWER               |
| T1       | 5584-703453      | XFORMER, POWER               |
| Q1       | 5612-1015(O)r(Y) | XISTOR, PNP A                                                                                                   |
| Q2       | 5614-1406(O)     | XISTOR, NPN A                                                                                                   |
| Q9       | 5612-1015(O)r(Y) | XISTOR, PNP A                                                                                                   |
| Q91      | 5612-1015(O)r(Y) | XISTOR, PNP A                                                                                                   |
| Q92      | 5614-1406(O)r(Y) | XISTOR, NPN A                                                                                                   |

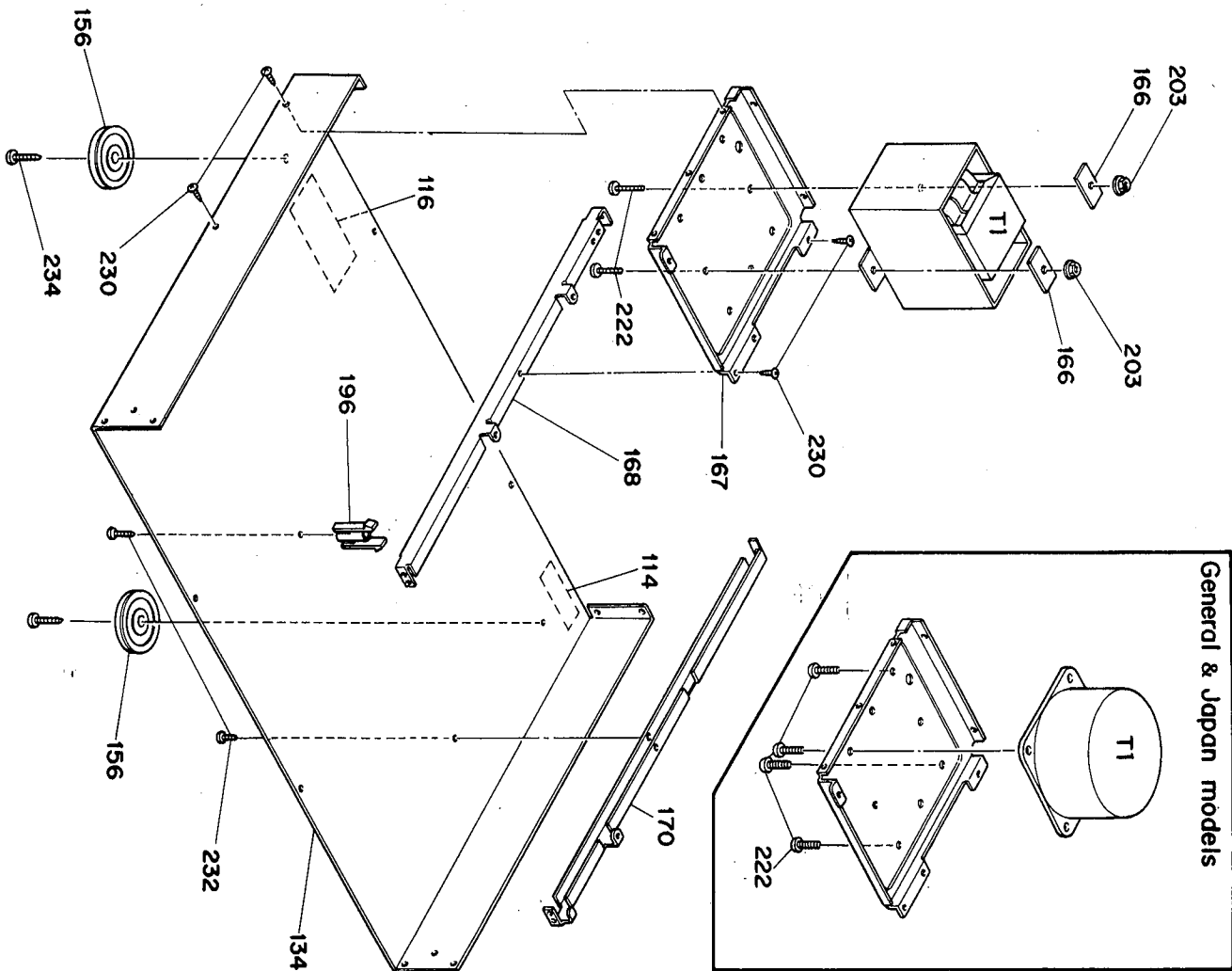
GENERAL UNIT  
EXPLODED VIEW (FRONT CHASSIS)



PARTS LIST

| Ref. No. | Part No.      | Description     |
|----------|---------------|-----------------|
| 142      | 1630-03501    | ROTARY KNOB     |
| 161      | 2211-7288     | CHASSIS         |
| 194      | 2112-11755    | SPONGE, PCB-3   |
| 212      | 2651-110518   | SPRING, VOLUME  |
| 221      | 2327-R0130064 | SCREW, PCB-2/S7 |
| 240      | 4211-5005     | LUG, GND        |

GENERAL UNIT  
EXPLODED VIEW (CABINET BOTTOM)

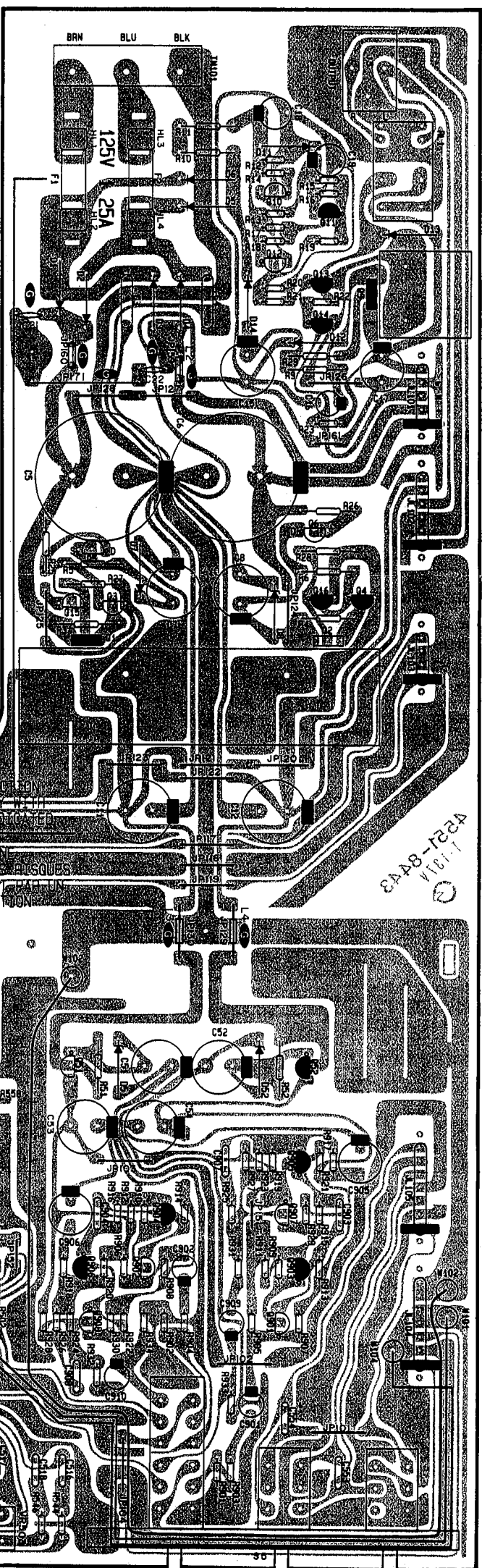


PARTS LIST

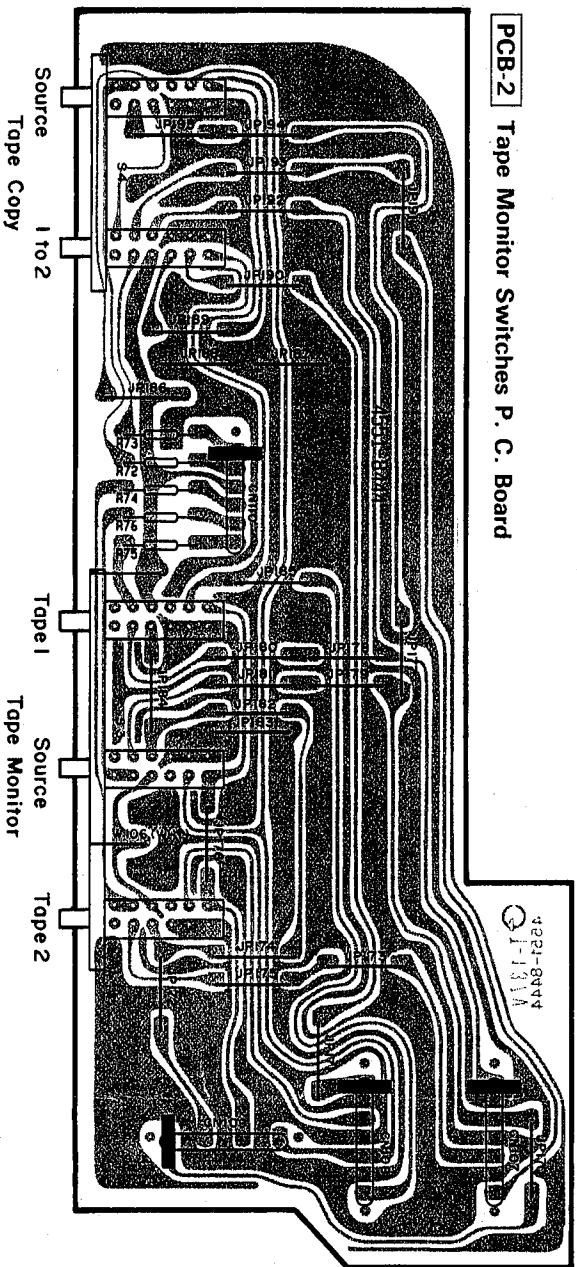
| Ref. No. | Part No.   | Description          | Ref. No. | Part No.      | Description             |
|----------|------------|----------------------|----------|---------------|-------------------------|
| 114      | 1117-78    | SERIAL LABEL, BOTTOM | 203      | 2440-7019     | SPECIAL NUT, TRANS      |
| 116      | 1756-CSA   | LABEL, CSA <b>UA</b> | 222      | 2327-R0140104 | SCREW, TRANS            |
| 134      | 1424-21701 | CABI BACK, BOTTOM    | 230      | 2347-R0130064 | SCREW                   |
| 156      | 1319-7181  | LEG                  | 232      | 2347-R0130084 | SCREW, CABI BACK        |
| 166      | 2219-7093  | METAL FITTG, TRANS   | 234      | 2347-R0140124 | SCREW, LEG              |
| 167      | 2219-8149  | METAL FITTG, TRANS   | 234      | 2347-R0140124 | SCREW, LEG              |
| 168      | 2219-8150  | METAL FITTG          | TI       | 5584-70154    | XFORMER, POWER <b>G</b> |
| 170      | 2219-8180  | METAL FITTG          | TI       | 5584-702453   | XFORMER, POWER <b>G</b> |
| 196      | 2360-7014  | SPECIAL BOSS         | TI       | 5584-703453   | XFORMER, POWER <b>N</b> |

P. C. BOARDS

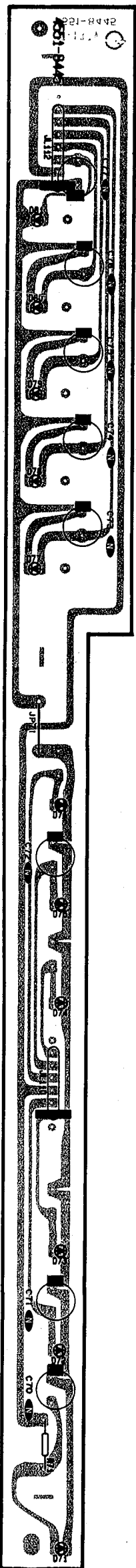
PCB-1 Power Supply P. C. Board



PCB-2 Tape Monitor Switches P. C. Board



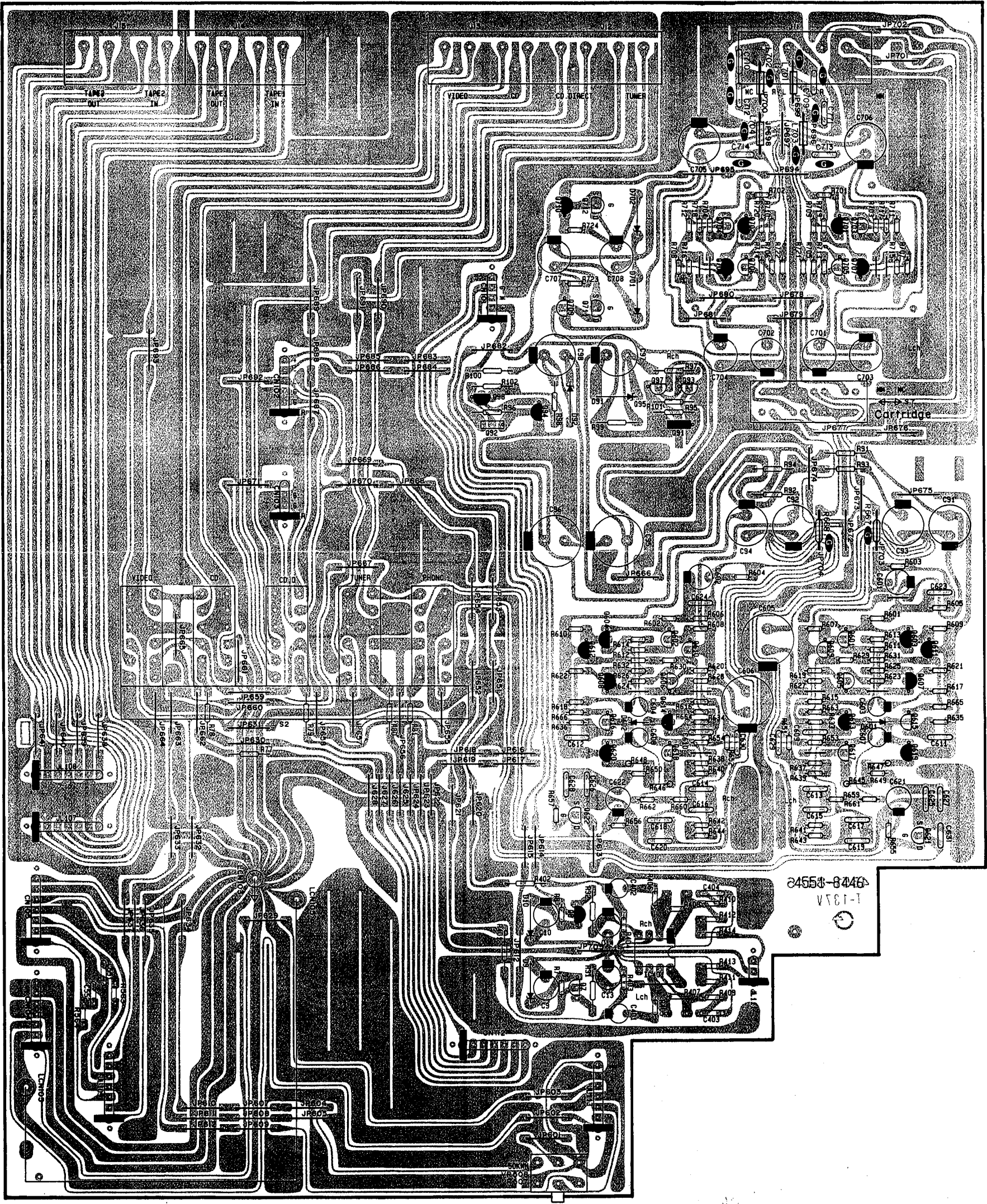
PCB-3 Function Indicators P. C. Board



Bass Tone Defeat Treble Phase-Correct Loudness Subsonic Mono

P. C. BOARDS

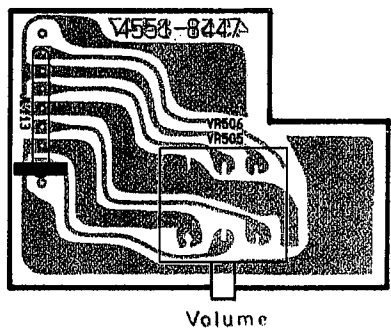
PCB-4 Pre Amp. P. C. Board



34553-8446  
V561-T

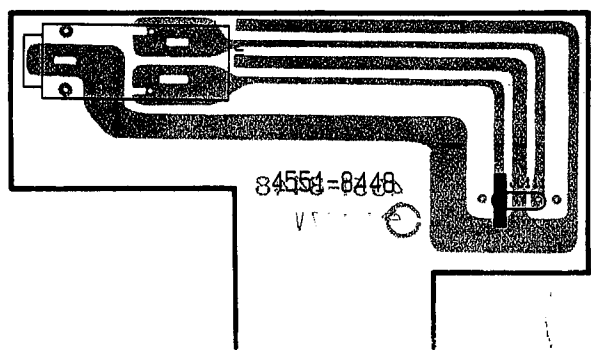
Balance

PCB-5 Volume P. C. Board



Volume

PCB-6 Headphone Jack P. C.



34553-8446  
V561-T



| Ser. No. | Ref. No. | Part No.      | Description   |
|----------|----------|---------------|---------------|
| 880      | JL107    | 4242-R0407800 | JUMPER LEAD   |
| 879      | JL108    | 4242-R0407121 | JUMPER LEAD   |
| 881      | JL109    | 4242-R0407800 | JUMPER LEAD   |
| 889      | JL111    | 4242-R0303101 | JUMPER LEAD   |
| 888      | JL113    | 4242-R0307800 | JUMPER LEAD   |
| 913      | TM104    | 4214-11013    | TERMINAL      |
| 910      | LCN103   | 4163-0114020  | CONNECTOR W/W |

**PCB-5 VOLUME P. C. BOARD**

|     |       |             |                   |
|-----|-------|-------------|-------------------|
| 810 | VR505 | 5118-503741 | RES, V CBN 40 50K |
| 810 | VR506 | 5118-503741 | RES, V CBN 40 50K |

**PCB-6 HEADPHONE JACK P. C. BOARD**

|     |    |            |          |
|-----|----|------------|----------|
| 820 | J1 | 4451-00161 | JACK, 1P |
|-----|----|------------|----------|

**CHASSIS MISCELLANEOUS PARTS LIST**

|      |        |              |                                      |
|------|--------|--------------|--------------------------------------|
| 049A | ΔCO1   | 4443-712     | CONNECTOR <b>G</b>                   |
| 797  | ΔF1    | 5732-122031  | FUSE <b>UA</b>                       |
| 797A | ΔF1    | 5732-122030  | FUSE <b>G</b>                        |
| 797B | ΔF1    | 5732-122036  | FUSE <b>N</b>                        |
| 797  | ΔF2    | 5732-122031  | FUSE <b>UA</b>                       |
| 797A | ΔF2    | 5732-122030  | FUSE <b>G</b>                        |
| 797B | ΔF2    | 5732-122036  | FUSE <b>N</b>                        |
| 837  | ΔP1    | 4161-71151   | CORD W/PLUG, AC CORD <b>UA</b>       |
| 837A | ΔP1    | 4161-7256    | CORD W/PLUG, AC CORD <b>G</b>        |
| 837B | ΔP1    | 4161-71148   | CORD W/PLUG, AC CORD <b>N</b>        |
| 041A | ΔS101  | 4411-102729  | ROTARY SWITCH, VOLT SELECT <b>G</b>  |
| 834  | ΔSO1   | 4474-156     | SOCKET, AC OUTLET <b>UA</b> <b>N</b> |
| 788  | ΔT1    | 5584-701554  | XFORMER, POWER <b>UA</b>             |
| 788A | ΔT1    | 5584-702453  | XFORMER, POWER <b>G</b>              |
| 788B | ΔT1    | 5584-703453  | XFORMER, POWER <b>N</b>              |
| 911  | LCN110 | 4163-0119020 | CONNECTOR W/W                        |
| 050A |        | 4150-8       | SPECIAL TUBING <b>G</b>              |
| 029A |        | 2132-5049    | SPACER, D12 <b>G</b>                 |

**PACKAGE PARTS LIST**

|      |  |             |                                     |
|------|--|-------------|-------------------------------------|
| 021A |  | 1756-06303  | LABEL, 220V/50Hz <b>G</b>           |
| 021B |  | 1756-03113  | LABEL <b>N</b>                      |
| 022A |  | 1756-03108  | LABEL, INT <b>G</b>                 |
| 024A |  | 1119-026    | ATTACH SHEET, FTZ SHEET <b>G</b>    |
| 105  |  | 1111-J90195 | OWNER GUIDE, UL <b>UA</b>           |
| 106  |  | 1111-J30255 | OWNER GUIDE, OG <b>UA</b>           |
| 106A |  | 1111-J30256 | OWNER GUIDE, OG <b>G</b>            |
| 106B |  | 1111-J2034  | OWNER GUIDE, OG <b>N</b>            |
| 107  |  | 1113-717005 | OWNER CARD, REPLY CARD <b>UA</b>    |
| 107B |  | 1113-OC     | OWNER CARD, REPLY CARD <b>N</b>     |
| 108  |  | 1119-057    | ATTACH SHEET, WARRANTY <b>UA</b>    |
| 108B |  | 1116-GC     | GUARANT CARD, WARRANTY <b>N</b>     |
| 109  |  | 1119-0137   | ATTACH SHEET <b>UA</b>              |
| 111  |  | 1241-C12732 | POLYETHY BAG, OG <b>UA</b> <b>G</b> |
| 111B |  | 1241-C12729 | POLYETHY BAG, OG <b>N</b>           |
| 120  |  | 1221-717199 | CARTON BOX                          |
| 121  |  | 1222-7309   | CUSHION, R                          |
| 122  |  | 1222-7310   | CUSHION, L                          |
| 123  |  | 1223-11748  | SOFT SHEET, SET                     |
| 125  |  | 1241-C1491  | POLYETHY BAG, SET                   |
| 839  |  | 4442-14     | PIN PLUG, SHORT PIN                 |
| 905  |  | 4161-71174  | CORD W/PLUG, CONNECT                |

**ABBREVIATIONS IN PARTS LIST****CAPACITORS**

CAP, MINI ELE : Electrolytic  
 CAP, CER : Ceramic  
 CAP, PPP : Polypropylene  
 CAP, MYL : Mylar  
 CAP, MCA : Mica  
 CAP, MINI BP : Bipolar  
 CAP, ELE BP : Electrolytic Bipolar

**RESISTORS**

RES, CBN 1/6P : Carbon 1/6W  
 RES, FUSE : Fuse  
 RES, CEM 5P : Cement 5W  
 RES, MTL 1P : Metal 1W  
 2.2K : 2.2kΩ  
 220 : 220Ω

**TRANSISTORS**

XISTOR : Transistor  
 FET : Field Effect Transistor

**CONTROLS**

RES, V CBN : Variable Carbon Resistor

**NOTE**

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

| Ser. No.                   | Ref. No. | Part No.      | Description                                                                                                                                                                              | Ser. No.             | Ref. No. | Part No.             | Description                                                                                       |
|----------------------------|----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------------------|---------------------------------------------------------------------------------------------------|
| 561                        | R622     | 5232-272J16P  | RES, CBN 1/6P 2.7K                                                                                                                                                                       | <b>TRANSISTORS</b>   |          |                      |                                                                                                   |
| 566                        | R623     | 5232-331J16P  | RES, CBN 1/6P 330                                                                                                                                                                        | 694                  | Q7       | 5614-667(C)          | XISTOR, NPN A                                                                                     |
| 566                        | R624     | 5232-331J16P  | RES, CBN 1/6P 330                                                                                                                                                                        | 695                  | Q8       | 5612-647(C)          | XISTOR, PNP A                                                                                     |
| 566                        | R625     | 5232-331J16P  | RES, CBN 1/6P 330                                                                                                                                                                        | 742                  | Q91      | 5612-1015(O)or(Y)    | XISTOR, PNP A                                                                                     |
| 566                        | R626     | 5232-331J16P  | RES, CBN 1/6P 330                                                                                                                                                                        | 741                  | Q92      | 5614-1406(O)or(Y)    | XISTOR, NPN A                                                                                     |
| 568                        | R627     | 5232-821J16P  | RES, CBN 1/6P 820                                                                                                                                                                        | 743                  | Q93      | 5613-2603(F)or(E)    | XISTOR, NPN R                                                                                     |
| 568                        | R628     | 5232-821J16P  | RES, CBN 1/6P 820                                                                                                                                                                        | 744                  | Q94      | 5611-1115(F)or(E)    | XISTOR, PNP R                                                                                     |
| 570                        | R629     | 5232-682J16P  | RES, CBN 1/6P 6.8K                                                                                                                                                                       | 743                  | Q97      | 5613-2603(F)or(E)    | XISTOR, NPN R                                                                                     |
| 570                        | R630     | 5232-682J16P  | RES, CBN 1/6P 6.8K                                                                                                                                                                       | 744                  | Q98      | 5611-1115(F)or(E)    | XISTOR, PNP R                                                                                     |
| 570                        | R631     | 5232-682J16P  | RES, CBN 1/6P 6.8K                                                                                                                                                                       | 531                  | Q601     | 5613-2240(BL)        | XISTOR, NPN R                                                                                     |
| 570                        | R632     | 5232-682J16P  | RES, CBN 1/6P 6.8K                                                                                                                                                                       | 531                  | Q602     | 5613-2240(BL)        | XISTOR, NPN R                                                                                     |
| 562                        | R633     | 5232-471J16P  | RES, CBN 1/6P 470                                                                                                                                                                        | 532                  | Q603     | 5611-970(BL)         | XISTOR, PNP R                                                                                     |
| 562                        | R634     | 5232-471J16P  | RES, CBN 1/6P 470                                                                                                                                                                        | 532                  | Q604     | 5611-970(BL)         | XISTOR, PNP R                                                                                     |
| 562                        | R635     | 5232-471J16P  | RES, CBN 1/6P 470                                                                                                                                                                        | 531                  | Q605     | 5613-2240(BL)        | XISTOR, NPN R                                                                                     |
| 562                        | R636     | 5232-471J16P  | RES, CBN 1/6P 470                                                                                                                                                                        | 531                  | Q606     | 5613-2240(BL)        | XISTOR, NPN R                                                                                     |
| 571                        | R637     | 5232-125J16P  | RES, CBN 1/6P 1.2M                                                                                                                                                                       | 532                  | Q607     | 5611-970(BL)         | XISTOR, PNP R                                                                                     |
| 571                        | R638     | 5232-125J16P  | RES, CBN 1/6P 1.2M                                                                                                                                                                       | 532                  | Q608     | 5611-970(BL)         | XISTOR, PNP R                                                                                     |
| 572                        | R639     | 5232-563J16P  | RES, CBN 1/6P 56K                                                                                                                                                                        | 533                  | Q609     | 5613-2320L(F)        | XISTOR, NPN R                                                                                     |
| 572                        | R640     | 5232-563J16P  | RES, CBN 1/6P 56K                                                                                                                                                                        | 533                  | Q610     | 5613-2320L(F)        | XISTOR, NPN R                                                                                     |
| 573                        | R641     | 5232-393J16P  | RES, CBN 1/6P 39K                                                                                                                                                                        | 534                  | Q611     | 5611-999L(F)         | XISTOR, PNP R                                                                                     |
| 573                        | R642     | 5232-393J16P  | RES, CBN 1/6P 39K                                                                                                                                                                        | 534                  | Q612     | 5611-999L(F)         | XISTOR, PNP R                                                                                     |
| 574                        | R643     | 5232-222J16P  | RES, CBN 1/6P 2.2K                                                                                                                                                                       | 535                  | Q613     | 5612-646(C)          | XISTOR, PNP A                                                                                     |
| 574                        | R644     | 5232-222J16P  | RES, CBN 1/6P 2.2K                                                                                                                                                                       | 535                  | Q614     | 5612-646(C)          | XISTOR, PNP A                                                                                     |
| 579                        | R645     | 5154-330J25R  | RES, CBN 1/4P 33                                                                                                                                                                         | 536                  | Q615     | 5614-666(C)          | XISTOR, NPN A                                                                                     |
| 579                        | R646     | 5154-330J25R  | RES, CBN 1/4P 33                                                                                                                                                                         | 536                  | Q616     | 5614-666(C)          | XISTOR, NPN A                                                                                     |
| 579                        | R647     | 5154-330J25R  | RES, CBN 1/4P 33                                                                                                                                                                         | 537                  | Q617     | 5614-667(C)          | XISTOR, NPN A                                                                                     |
| 579                        | R648     | 5154-330J25R  | RES, CBN 1/4P 33                                                                                                                                                                         | 537                  | Q618     | 5614-667(C)          | XISTOR, NPN A                                                                                     |
| 569                        | R649     | 5232-102J16P  | RES, CBN 1/6P 1K                                                                                                                                                                         | 538                  | Q619     | 5612-647(C)          | XISTOR, PNP A                                                                                     |
| 569                        | R650     | 5232-102J16P  | RES, CBN 1/6P 1K                                                                                                                                                                         | 538                  | Q620     | 5612-647(C)          | XISTOR, PNP A                                                                                     |
| 569                        | R651     | 5232-102J16P  | RES, CBN 1/6P 1K                                                                                                                                                                         | 539                  | Q621     | 5616-2SK364(BL)or(V) | FET, N-CH                                                                                         |
| 569                        | R652     | 5232-102J16P  | RES, CBN 1/6P 1K                                                                                                                                                                         | 539                  | Q622     | 5616-2SK364(BL)or(V) | FET, N-CH                                                                                         |
| 578                        | R653     | 5232-474J16P  | RES, CBN 1/6P 470K                                                                                                                                                                       | 502                  | Q701     | 5611-1190(E)         | XISTOR, PNP R                                                                                     |
| 578                        | R654     | 5232-474J16P  | RES, CBN 1/6P 470K                                                                                                                                                                       | 502                  | Q702     | 5611-1190(E)         | XISTOR, PNP R                                                                                     |
| 576                        | R655     | 5232-104J16P  | RES, CBN 1/6P 100K                                                                                                                                                                       | 501                  | Q703     | 5613-2855(D)         | XISTOR, NPN R                                                                                     |
| 576                        | R656     | 5232-104J16P  | RES, CBN 1/6P 100K                                                                                                                                                                       | 501                  | Q704     | 5613-2855(D)         | XISTOR, NPN R                                                                                     |
| 577                        | R657     | 5232-105J16P  | RES, CBN 1/6P 1M                                                                                                                                                                         | 501                  | Q705     | 5613-2855(D)         | XISTOR, NPN R                                                                                     |
| 571                        | R659     | 5232-125J16P  | RES, CBN 1/6P 1.2M                                                                                                                                                                       | 501                  | Q706     | 5613-2855(D)         | XISTOR, NPN R                                                                                     |
| 571                        | R660     | 5232-125J16P  | RES, CBN 1/6P 1.2M                                                                                                                                                                       | 502                  | Q707     | 5611-1190(E)         | XISTOR, PNP R                                                                                     |
| 572                        | R661     | 5232-563J16P  | RES, CBN 1/6P 56K                                                                                                                                                                        | 502                  | Q708     | 5611-1190(E)         | XISTOR, PNP R                                                                                     |
| 572                        | R662     | 5232-563J16P  | RES, CBN 1/6P 56K                                                                                                                                                                        | 517                  | Q709     | 5613-2603(F)or(E)    | XISTOR, NPN R                                                                                     |
| 575                        | R663     | 5232-121J16P  | RES, CBN 1/6P 120                                                                                                                                                                        | 518                  | Q710     | 5611-1115(F)or(E)    | XISTOR, PNP R                                                                                     |
| 575                        | R664     | 5232-121J16P  | RES, CBN 1/6P 120                                                                                                                                                                        | 519                  | Q711     | 5616-2SK246GR        | FET, N-CH                                                                                         |
| 575                        | R665     | 5232-121J16P  | RES, CBN 1/6P 120                                                                                                                                                                        | 519                  | Q712     | 5616-2SK246GR        | FET, N-CH                                                                                         |
| 575                        | R666     | 5232-121J16P  | RES, CBN 1/6P 120                                                                                                                                                                        | <b>DIODES</b>        |          |                      |                                                                                                   |
| 048A                       | R667     | 5135-102522   | RES, CBN 1/2P 1K                                                                                      | 697                  | D9       | 5635-HZ15-1L         | DIODE, ZENER                                                                                      |
| 048A                       | R668     | 5135-102522   | RES, CBN 1/2P 1K                                                                                      | 697                  | D10      | 5635-HZ15-1L         | DIODE, ZENER                                                                                      |
| 514                        | R701     | 5232-1R0J16P  | RES, CBN 1/6P 1    | 747                  | D91      | 5635-HZ24-1L         | DIODE, ZENER                                                                                      |
| 514A                       | R701     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                      | 747                  | D92      | 5635-HZ24-1L         | DIODE, ZENER                                                                                      |
| 514                        | R702     | 5232-1R0J16P  | RES, CBN 1/6P 1    | 541                  | D601     | 5641-MV103           | VARISTOR                                                                                          |
| 514A                       | R702     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                      | 541                  | D602     | 5641-MV103           | VARISTOR                                                                                          |
| 515                        | R703     | 5232-560J16P  | RES, CBN 1/6P 56   | 520                  | D701     | 5635-HZ15-1L         | DIODE, ZENER                                                                                      |
| 515A                       | R703     | 5232-470J16P  | RES, CBN 1/6P 47                                                                                      | 520                  | D702     | 5635-HZ15-1L         | DIODE, ZENER                                                                                      |
| 515                        | R704     | 5232-560J16P  | RES, CBN 1/6P 56   | <b>COILS</b>         |          |                      |                                                                                                   |
| 515A                       | R704     | 5232-470J16P  | RES, CBN 1/6P 47                                                                                      | 045A                 | L701     | 5597-45502           | CORE, BEADS  |
| 512                        | R705     | 5232-472J16P  | RES, CBN 1/6P 4.7K                                                                                                                                                                       | 045A                 | L702     | 5597-45502           | CORE, BEADS  |
| 512                        | R706     | 5232-472J16P  | RES, CBN 1/6P 4.7K                                                                                                                                                                       | 045A                 | L703     | 5597-45502           | CORE, BEADS  |
| 512                        | R707     | 5232-472J16P  | RES, CBN 1/6P 4.7K                                                                                                                                                                       | 045A                 | L704     | 5597-45502           | CORE, BEADS  |
| 512                        | R708     | 5232-472J16P  | RES, CBN 1/6P 4.7K                                                                                                                                                                       | <b>CONTROLS</b>      |          |                      |                                                                                                   |
| 509                        | R709     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                                                                                                         | 812                  | VR507    | 5113-50343122        | RES, V CBN 16 50K                                                                                 |
| 509                        | R710     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                                                                                                         | 812                  | VR508    | 5113-50343122        | RES, V CBN 16 50K                                                                                 |
| 509                        | R711     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                                                                                                         | <b>MISCELLANEOUS</b> |          |                      |                                                                                                   |
| 509                        | R712     | 5232-100J16P  | RES, CBN 1/6P 10                                                                                                                                                                         | 831                  | J11      | 4484-49              | PIN JACK, 4P                                                                                      |
| 506                        | R713     | 5232-561J16P  | RES, CBN 1/6P 560                                                                                                                                                                        | 831                  | J12      | 4484-49              | PIN JACK, 4P                                                                                      |
| 506                        | R714     | 5232-561J16P  | RES, CBN 1/6P 560                                                                                                                                                                        | 831                  | J13      | 4484-49              | PIN JACK, 4P                                                                                      |
| 506                        | R715     | 5232-561J16P  | RES, CBN 1/6P 560                                                                                                                                                                        | 831                  | J14      | 4484-49              | PIN JACK, 4P                                                                                      |
| 506                        | R716     | 5232-561J16P  | RES, CBN 1/6P 560                                                                                                                                                                        | 831                  | J15      | 4484-49              | PIN JACK, 4P                                                                                      |
| 510                        | R717     | 5232-220J16P  | RES, CBN 1/6P 22                                                                                                                                                                         | 802                  | S2       | 4431-05207156        | PUSH SWITCH                                                                                       |
| 510                        | R718     | 5232-220J16P  | RES, CBN 1/6P 22                                                                                                                                                                         | 808                  | S7       | 4422-70114           | REMOTE SWITCH                                                                                     |
| 510                        | R719     | 5232-220J16P  | RES, CBN 1/6P 22                                                                                                                                                                         | 865                  | CN101    | 4443-050185          | CONNECTOR                                                                                         |
| 510                        | R720     | 5232-220J16P  | RES, CBN 1/6P 22                                                                                                                                                                         | 864                  | CN102    | 4443-060185          | CONNECTOR                                                                                         |
| 511                        | R721     | 5232-392J16P  | RES, CBN 1/6P 3.9K                                                                                                                                                                       | 866                  | CN103    | 4443-040185          | CONNECTOR                                                                                         |
| 511                        | R722     | 5232-392J16P  | RES, CBN 1/6P 3.9K                                                                                                                                                                       | 863                  | CN104    | 4443-070185          | CONNECTOR                                                                                         |
| 507                        | R723     | 5232-101J16P  | RES, CBN 1/6P 100                                                                                                                                                                        | 863                  | CN105    | 4443-070185          | CONNECTOR                                                                                         |
| 507                        | R724     | 5232-101J16P  | RES, CBN 1/6P 100                                                                                                                                                                        | 863                  | CN112    | 4443-070185          | CONNECTOR                                                                                         |
| <b>INTEGRATED CIRCUITS</b> |          |               |                                                                                                                                                                                          |                      |          |                      |                                                                                                   |
| 681                        | IC401    | 5653-UPC4556C | IC, LINEAR                                                                                                                                                                               |                      |          |                      |                                                                                                   |

| Ser. No.                          | Ref. No. | Part No.      | Description                          | Ser. No.         | Ref. No.     | Part No.      | Description                  |
|-----------------------------------|----------|---------------|--------------------------------------|------------------|--------------|---------------|------------------------------|
| 041B                              | C72      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 551              | C629         | 5353-010934   | CAP, MCA 1p                  |
| 042B                              | C73      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 551              | C630         | 5353-010934   | CAP, MCA 1p                  |
| 042B                              | C74      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 558              | C631         | 5354-102K1HM  | CAP, MYL 1000p               |
| 042B                              | C75      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 504              | C701         | 5345-106F095I | CAP, MINI ELE 10 $\mu$ /50V  |
| 042B                              | C76      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 504              | C702         | 5345-106F095I | CAP, MINI ELE 10 $\mu$ /50V  |
| 042B                              | C77      | 5345-106C095I | CAP, MINI ELE 10 $\mu$ /16V <b>N</b> | 504              | C703         | 5345-106F095I | CAP, MINI ELE 10 $\mu$ /50V  |
| <b>RESISTORS</b>                  |          |               |                                      | 504              | C704         | 5345-106F095I | CAP, MINI ELE 10 $\mu$ /50V  |
| 786                               | R71      | 5135-182522   | RES, CBN 1/2P 1.8K                   | 522              | C705         | 5345-337C04I  | CAP, MINI ELE 330 $\mu$ /16V |
| <b>DIODES</b>                     |          |               |                                      | 522              | C706         | 5345-337C04I  | CAP, MINI ELE 330 $\mu$ /16V |
| 822                               | D71      | 5637-GL5EG2I  | LED                                  | 522              | C707         | 5345-337C04I  | CAP, MINI ELE 330 $\mu$ /16V |
| 822                               | D72      | 5637-GL5EG2I  | LED                                  | 522              | C708         | 5345-337C04I  | CAP, MINI ELE 330 $\mu$ /16V |
| 822                               | D73      | 5637-GL5EG2I  | LED                                  | 042A             | C709         | 5359-101585I  | CAP, PPP 100p <b>G</b>       |
| 822                               | D74      | 5637-GL5EG2I  | LED                                  | 042A             | C710         | 5359-101585I  | CAP, PPP 100p <b>G</b>       |
| 822                               | D75      | 5637-GL5EG2I  | LED                                  | 043A             | C711         | 5359-102585I  | CAP, PPP 1000p <b>G</b>      |
| 822                               | D76      | 5637-GL5EG2I  | LED                                  | 043A             | C712         | 5359-102585I  | CAP, PPP 1000p <b>G</b>      |
| 822                               | D77      | 5637-GL5EG2I  | LED                                  | 044A             | C713         | 5354-473J1HM  | CAP, MYL .047 $\mu$ <b>G</b> |
| 822                               | D78      | 5637-GL5EG2I  | LED                                  | 044A             | C714         | 5354-473J1HM  | CAP, MYL .047 $\mu$ <b>G</b> |
| 822                               | D79      | 5637-GL5EG2I  | LED                                  | <b>RESISTORS</b> |              |               |                              |
| 822                               | D80      | 5637-GL5EG2I  | LED                                  | 701              | R7           | 5232-182J16P  | RES, CBN 1/6P 1.8K           |
| 822                               | D81      | 5637-GL5EG2I  | LED                                  | 701              | R8           | 5232-182J16P  | RES, CBN 1/6P 1.8K           |
| <b>MISCELLANEOUS</b>              |          |               |                                      | 702              | R31          | 5135-221522   | RES, CBN 1/2P 220            |
| 887                               | JL110    | 4242-R0206600 | JUMPER LEAD                          | 702              | R32          | 5135-221522   | RES, CBN 1/2P 220            |
| 886                               | JL112    | 4242-R0207101 | JUMPER LEAD                          | 785              | R77          | 5135-182522   | RES, CBN 1/2P 1.8K           |
| <b>PCB-4 PRE AMP. P. C. BOARD</b> |          |               |                                      | 785              | R78          | 5135-182522   | RES, CBN 1/2P 1.8K           |
| <b>CAPACITORS</b>                 |          |               |                                      | 785              | R79          | 5135-182522   | RES, CBN 1/2P 1.8K           |
| 699                               | C9       | 5345-107C04I  | CAP, MINI ELE 100 $\mu$ /16V         | 785              | R80          | 5135-182522   | RES, CBN 1/2P 1.8K           |
| 699                               | C10      | 5345-107C04I  | CAP, MINI ELE 100 $\mu$ /16V         | 785              | R81          | 5135-182522   | RES, CBN 1/2P 1.8K           |
| 699                               | C13      | 5345-107C04I  | CAP, MINI ELE 100 $\mu$ /16V         | 756              | $\Delta$ R91 | 5102-2204715  | RES, FUSE 22                 |
| 699                               | C14      | 5345-107C04I  | CAP, MINI ELE 100 $\mu$ /16V         | 756              | $\Delta$ R92 | 5102-2204715  | RES, FUSE 22                 |
| 750                               | C91      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 756              | $\Delta$ R93 | 5102-2204715  | RES, FUSE 22                 |
| 750                               | C92      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 756              | $\Delta$ R94 | 5102-2204715  | RES, FUSE 22                 |
| 750                               | C93      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 754              | R95          | 5135-331522   | RES, CBN 1/2P 330            |
| 750                               | C94      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 754              | R96          | 5135-331522   | RES, CBN 1/2P 330            |
| 749                               | C95      | 5345-477D04I  | CAP, MINI ELE 470 $\mu$ /25V         | 753              | R97          | 5135-101522   | RES, CBN 1/2P 100            |
| 749                               | C96      | 5345-477D04I  | CAP, MINI ELE 470 $\mu$ /25V         | 753              | R98          | 5135-101522   | RES, CBN 1/2P 100            |
| 750                               | C97      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 755              | R99          | 5135-562522   | RES, CBN 1/2P 5.6K           |
| 750                               | C98      | 5345-337D04I  | CAP, MINI ELE 330 $\mu$ /25V         | 755              | R100         | 5135-562522   | RES, CBN 1/2P 5.6K           |
| 683                               | C401     | 5345-475F095I | CAP, MINI ELE 4.7 $\mu$ /50V         | 752              | R101         | 5135-2R2522   | RES, CBN 1/2P 2.2            |
| 683                               | C402     | 5345-475F095I | CAP, MINI ELE 4.7 $\mu$ /50V         | 752              | R102         | 5135-2R2522   | RES, CBN 1/2P 2.2            |
| 685                               | C403     | 5359-151585I  | CAP, PPP 150p                        | 692              | R401         | 5135-563522   | RES, CBN 1/2P 56K            |
| 685                               | C404     | 5359-151585I  | CAP, PPP 150p                        | 692              | R402         | 5135-563522   | RES, CBN 1/2P 56K            |
| 635                               | C551     | 5353-101534   | CAP, MCA 100p                        | 691              | R403         | 5232-273J16P  | RES, CBN 1/6P 27K            |
| 635                               | C552     | 5353-101534   | CAP, MCA 100p                        | 691              | R404         | 5232-273J16P  | RES, CBN 1/6P 27K            |
| 543                               | C601     | 5345-106D095I | CAP, MINI ELE 10 $\mu$ /25V          | 687              | R405         | 5232-683J16P  | RES, CBN 1/6P 68K            |
| 543                               | C602     | 5345-106D095I | CAP, MINI ELE 10 $\mu$ /25V          | 687              | R406         | 5232-683J16P  | RES, CBN 1/6P 68K            |
| 546                               | C603     | 5345-107B04I  | CAP, MINI ELE 100 $\mu$ /10V         | 688              | R407         | 5232-154J16P  | RES, CBN 1/6P 150K           |
| 546                               | C604     | 5345-107B04I  | CAP, MINI ELE 100 $\mu$ /10V         | 688              | R408         | 5232-154J16P  | RES, CBN 1/6P 150K           |
| 545                               | C605     | 5345-477B0952 | CAP, MINI ELE 470 $\mu$ /10V         | 689              | R409         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 545                               | C606     | 5345-477B0952 | CAP, MINI ELE 470 $\mu$ /10V         | 689              | R410         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 547                               | C607     | 5345-226C04I  | CAP, MINI ELE 22 $\mu$ /16V          | 690              | R411         | 5232-8R2J16P  | RES, CBN 1/6P 8.2            |
| 547                               | C608     | 5345-226C04I  | CAP, MINI ELE 22 $\mu$ /16V          | 690              | R412         | 5232-8R2J16P  | RES, CBN 1/6P 8.2            |
| 550                               | C609     | 5353-100934   | CAP, MCA 10p                         | 690              | R413         | 5232-8R2J16P  | RES, CBN 1/6P 8.2            |
| 550                               | C610     | 5353-100934   | CAP, MCA 10p                         | 690              | R414         | 5232-8R2J16P  | RES, CBN 1/6P 8.2            |
| 550                               | C611     | 5353-100934   | CAP, MCA 10p                         | 670              | R563         | 5232-102J16P  | RES, CBN 1/6P 1K             |
| 550                               | C612     | 5353-100934   | CAP, MCA 10p                         | 670              | R564         | 5232-102J16P  | RES, CBN 1/6P 1K             |
| 554                               | C613     | 5359-472585I  | CAP, PPP 4700p                       | 581              | R601         | 5232-470J16P  | RES, CBN 1/6P 47             |
| 554                               | C614     | 5359-472585I  | CAP, PPP 4700p                       | 581              | R602         | 5232-470J16P  | RES, CBN 1/6P 47             |
| 556                               | C615     | 5359-102585I  | CAP, PPP 1000p                       | 563              | R603         | 5232-823J16P  | RES, CBN 1/6P 82K            |
| 556                               | C616     | 5359-102585I  | CAP, PPP 1000p                       | 563              | R604         | 5232-823J16P  | RES, CBN 1/6P 82K            |
| 553                               | C617     | 5359-182585I  | CAP, PPP 1800p                       | 564              | R605         | 5232-124J16P  | RES, CBN 1/6P 120K           |
| 553                               | C618     | 5359-182585I  | CAP, PPP 1800p                       | 564              | R606         | 5232-124J16P  | RES, CBN 1/6P 120K           |
| 552                               | C619     | 5359-181585I  | CAP, PPP 180p                        | 561              | R607         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
| 552                               | C620     | 5359-181585I  | CAP, PPP 180p                        | 561              | R608         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
| 544                               | C621     | 5345-336D095I | CAP, MINI ELE 33 $\mu$ /25V          | 561              | R609         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
| 544                               | C622     | 5345-336D095I | CAP, MINI ELE 33 $\mu$ /25V          | 561              | R610         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
| 549                               | C623     | 5353-121534   | CAP, MCA 120p <b>UA N</b>            | 566              | R611         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 549A                              | C623     | 5359-331585I  | CAP, PPP 330p <b>G</b>               | 566              | R612         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 549                               | C624     | 5353-121534   | CAP, MCA 120p <b>UA N</b>            | 566              | R613         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 549A                              | C624     | 5359-331585I  | CAP, PPP 330p <b>G</b>               | 566              | R614         | 5232-331J16P  | RES, CBN 1/6P 330            |
| 555                               | C625     | 5359-222585I  | CAP, PPP 2200p                       | 567              | R615         | 5232-123J16P  | RES, CBN 1/6P 12K            |
| 555                               | C626     | 5359-222585I  | CAP, PPP 2200p                       | 567              | R616         | 5232-123J16P  | RES, CBN 1/6P 12K            |
| 557                               | C627     | 5359-331585I  | CAP, PPP 330p                        | 567              | R617         | 5232-123J16P  | RES, CBN 1/6P 12K            |
| 557                               | C628     | 5359-331585I  | CAP, PPP 330p                        | 567              | R618         | 5232-123J16P  | RES, CBN 1/6P 12K            |
|                                   |          |               |                                      | 561              | R619         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
|                                   |          |               |                                      | 561              | R620         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |
|                                   |          |               |                                      | 561              | R621         | 5232-272J16P  | RES, CBN 1/6P 2.7K           |

| Ser. No. | Ref. No. | Part No.     | Description        |
|----------|----------|--------------|--------------------|
| 667      | R556     | 5232-121J16P | RES, CBN 1/6P 120  |
| 667      | R557     | 5232-121J16P | RES, CBN 1/6P 120  |
| 667      | R558     | 5232-121J16P | RES, CBN 1/6P 120  |
| 669      | R559     | 5232-683J16P | RES, CBN 1/6P 68K  |
| 669      | R560     | 5232-683J16P | RES, CBN 1/6P 68K  |
| 666      | R561     | 5232-392J16P | RES, CBN 1/6P 3.9K |
| 666      | R562     | 5232-392J16P | RES, CBN 1/6P 3.9K |
| 606      | R901     | 5232-224J16P | RES, CBN 1/6P 220K |
| 606      | R902     | 5232-224J16P | RES, CBN 1/6P 220K |
| 607      | R903     | 5232-102J16P | RES, CBN 1/6P 1K   |
| 607      | R904     | 5232-102J16P | RES, CBN 1/6P 1K   |
| 608      | R905     | 5232-684J16P | RES, CBN 1/6P 680K |
| 608      | R906     | 5232-684J16P | RES, CBN 1/6P 680K |
| 606      | R907     | 5232-224J16P | RES, CBN 1/6P 220K |
| 606      | R908     | 5232-224J16P | RES, CBN 1/6P 220K |
| 607      | R909     | 5232-102J16P | RES, CBN 1/6P 1K   |
| 607      | R910     | 5232-102J16P | RES, CBN 1/6P 1K   |
| 609      | R911     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 609      | R912     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 609      | R913     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 609      | R914     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 610      | R915     | 5232-183J16P | RES, CBN 1/6P 18K  |
| 610      | R916     | 5232-183J16P | RES, CBN 1/6P 18K  |
| 616      | R917     | 5232-472J16P | RES, CBN 1/6P 4.7K |
| 616      | R918     | 5232-472J16P | RES, CBN 1/6P 4.7K |
| 611      | R919     | 5232-562J16P | RES, CBN 1/6P 5.6K |
| 611      | R920     | 5232-562J16P | RES, CBN 1/6P 5.6K |
| 609      | R921     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 609      | R922     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 610      | R923     | 5232-183J16P | RES, CBN 1/6P 18K  |
| 610      | R924     | 5232-183J16P | RES, CBN 1/6P 18K  |
| 612      | R925     | 5232-331J16P | RES, CBN 1/6P 330  |
| 612      | R926     | 5232-331J16P | RES, CBN 1/6P 330  |
| 609      | R927     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 609      | R928     | 5232-332J16P | RES, CBN 1/6P 3.3K |
| 613      | R929     | 5232-221J16P | RES, CBN 1/6P 220  |
| 613      | R930     | 5232-221J16P | RES, CBN 1/6P 220  |
| 612      | R931     | 5232-331J16P | RES, CBN 1/6P 330  |
| 612      | R932     | 5232-331J16P | RES, CBN 1/6P 330  |
| 614      | R933     | 5232-104J16P | RES, CBN 1/6P 100K |
| 614      | R934     | 5232-104J16P | RES, CBN 1/6P 100K |

#### TRANSISTORS

|     |      |                   |               |
|-----|------|-------------------|---------------|
| 758 | Q1   | 5612-1015(O)or(Y) | XISTOR, PNP A |
| 757 | Q2   | 5614-1406(O)      | XISTOR, NPN A |
| 759 | Q3   | 5613-2603(F)or(E) | XISTOR, NPN R |
| 760 | Q4   | 5611-1115(F)or(E) | XISTOR, PNP R |
| 761 | Q5   | 5616-2SK246GR     | FET, N-CH     |
| 761 | Q6   | 5616-2SK246GR     | FET, N-CH     |
| 771 | Q9   | 5612-1015(O)or(Y) | XISTOR, PNP A |
| 713 | Q10  | 5613-2603(F)or(E) | XISTOR, NPN R |
| 712 | Q11  | 5611-1115(F)or(E) | XISTOR, PNP R |
| 713 | Q12  | 5613-2603(F)or(E) | XISTOR, NPN R |
| 711 | Q13  | 5612-647(C)       | XISTOR, PNP A |
| 712 | Q14  | 5611-1115(F)or(E) | XISTOR, PNP R |
| 759 | Q15  | 5613-2603(F)or(E) | XISTOR, NPN R |
| 760 | Q16  | 5611-1115(F)or(E) | XISTOR, PNP R |
| 593 | Q51  | 5614-667(C)       | XISTOR, NPN A |
| 594 | Q52  | 5612-647(C)       | XISTOR, PNP A |
| 621 | Q501 | 5613-2240(BL)     | XISTOR, NPN R |
| 621 | Q502 | 5613-2240(BL)     | XISTOR, NPN R |
| 622 | Q503 | 5611-970(BL)      | XISTOR, PNP R |
| 622 | Q504 | 5611-970(BL)      | XISTOR, PNP R |
| 621 | Q505 | 5613-2240(BL)     | XISTOR, NPN R |
| 621 | Q506 | 5613-2240(BL)     | XISTOR, NPN R |
| 622 | Q507 | 5611-970(BL)      | XISTOR, PNP R |
| 622 | Q508 | 5611-970(BL)      | XISTOR, PNP R |
| 623 | Q509 | 5613-2320L(F)     | XISTOR, NPN R |
| 623 | Q510 | 5613-2320L(F)     | XISTOR, NPN R |
| 624 | Q511 | 5611-999L(F)      | XISTOR, PNP R |
| 624 | Q512 | 5611-999L(F)      | XISTOR, PNP R |
| 625 | Q513 | 5612-646(C)       | XISTOR, PNP A |
| 625 | Q514 | 5612-646(C)       | XISTOR, PNP A |
| 626 | Q515 | 5614-666(C)       | XISTOR, NPN A |
| 626 | Q516 | 5614-666(C)       | XISTOR, NPN A |
| 591 | Q901 | 5613-2603(F)or(E) | XISTOR, NPN R |
| 591 | Q902 | 5613-2603(F)or(E) | XISTOR, NPN R |

| Ser. No. | Ref. No. | Part No.           | Description   |
|----------|----------|--------------------|---------------|
| 592      | Q903     | 5611-1115(F)or(E)  | XISTOR, PNP R |
| 592      | Q904     | 5611-1115(F)or(E)  | XISTOR, PNP R |
| 592      | Q905     | 5611-1115(F)or(E)  | XISTOR, PNP R |
| 592      | Q906     | 5611-1115(F)or(E)  | XISTOR, PNP R |
| 591      | Q907     | 5613-2603(F)or(E)  | XISTOR, NPN R |
| 591      | Q908     | 5613-2603(F)otr(E) | XISTOR, NPN R |

#### DIODES

|     |     |               |               |
|-----|-----|---------------|---------------|
| 790 | D1  | 5632-10DF2    | DIODE, RECT   |
| 790 | D2  | 5632-10DF2    | DIODE, RECT   |
| 790 | D3  | 5632-10DF2    | DIODE, RECT   |
| 790 | D4  | 5632-10DF2    | DIODE, RECT   |
| 773 | D5  | 5632-10DF2    | DIODE, RECT   |
| 773 | D6  | 5632-10DF2    | DIODE, RECT   |
| 763 | D7  | 5635-HZ24-1L  | DIODE, ZEER   |
| 763 | D8  | 5635-HZ24-1L  | DIODE, ZEER   |
| 715 | D11 | 5635-RD5R6EB2 | DIODE, ZENER  |
| 775 | D12 | 5635-HZ24-1L  | DIODE, ZENER  |
| 716 | D13 | 5636-1S2471   | DIODE, SWITCH |
| 773 | D14 | 5632-10DF2    | DIODE, RECT   |
| 596 | D51 | 5635-HZ15-1L  | DIODE, ZENER  |
| 596 | D52 | 5635-HZ15-1L  | DIODE, ZENER  |

#### COILS

|      |    |            |                      |
|------|----|------------|----------------------|
| 046A | L1 | 5597-45502 | CORE, BEADS <b>G</b> |
| 046A | L2 | 5597-45502 | CORE, BEADS <b>G</b> |
| 046A | L3 | 5597-45502 | CORE, BEADS <b>G</b> |
| 046A | L4 | 5597-45502 | CORE, BEADS <b>G</b> |

#### CONTROLS

|     |       |               |                    |
|-----|-------|---------------|--------------------|
| 814 | VR501 | 5113-10445122 | RES, V CBN 16 100K |
| 814 | VR502 | 5113-10445122 | RES, V CBN 16 100K |
| 816 | VR503 | 5113-50344122 | RES, V CBN 16 50K  |
| 816 | VR504 | 5113-50344122 | RES, V CBN 16 50K  |

#### MISCELLANEOUS

|      |        |               |                                       |
|------|--------|---------------|---------------------------------------|
| 832  | J3     | 4482-7136     | PIN JACK, 2P                          |
| 801  | ΔS1    | 4431-A017191  | PUSH SWITCH, POWER <b>UA</b> <b>N</b> |
| 801A | ΔS1    | 4431-A017291  | PUSH SWITCH, POWER <b>G</b>           |
| 805  | S5     | 4431-03087167 | PUSH SWITCH                           |
| 806  | S6     | 4431-A047153  | PUSH SWITCH                           |
| 798  | Δ      | 4472-0131     | HOLDER, FUSE                          |
| 798  | Δ      | 4472-0131     | HOLDER, FUSE                          |
| 798  | Δ      | 4472-0131     | HOLDER, FUSE                          |
| 798  | Δ      | 4472-0131     | HOLDER, FUSE                          |
| 884  | JL101  | 4242-R0405141 | JUMPER LEAD                           |
| 883  | JL102  | 4242-R0406101 | JUMPER LEAD                           |
| 885  | JL103  | 4242-R0404101 | JUMPER LEAD                           |
| 882  | JL104  | 4242-R0407500 | JUMPER LEAD                           |
| 882  | JL105  | 4242-R0407500 | JUMPER LEAD                           |
| 718  | ΔRL1   | 4331-2024736  | RELAY                                 |
| 800  | TM101  | 4214-11033    | TERMINAL                              |
| 799  | TM102  | 4214-122      | TERMINAL                              |
| 799  | TM103  | 4214-122      | TERMINAL                              |
| 908  | LCN104 | 4163-0122024  | CONNECTOR W/W                         |

#### PCB-2 TAPE MONITOR SWITCHES P. C. BOARD

#### RESISTORS

|     |     |             |                    |
|-----|-----|-------------|--------------------|
| 784 | R72 | 5135-152522 | RES, CBN 1/2P 1.5K |
| 784 | R73 | 5135-152522 | RES, CBN 1/2P 1.5K |
| 784 | R74 | 5135-152522 | RES, CBN 1/2P 1.5K |
| 784 | R75 | 5135-152522 | RES, CBN 1/2P 1.5K |
| 784 | R76 | 5135-152522 | RES, CBN 1/2P 1.5K |

#### MISCELLANEOUS

|     |       |               |             |
|-----|-------|---------------|-------------|
| 803 | S3    | 4431-03127164 | PUSH SWITCH |
| 804 | S4    | 4431-02087163 | PUSH SWITCH |
| 861 | CN107 | 4443-070185   | CONNECTOR   |
| 861 | CN108 | 4443-070185   | CONNECTOR   |
| 861 | CN109 | 4443-070185   | CONNECTOR   |
| 862 | CN110 | 4443-060185   | CONNECTOR   |

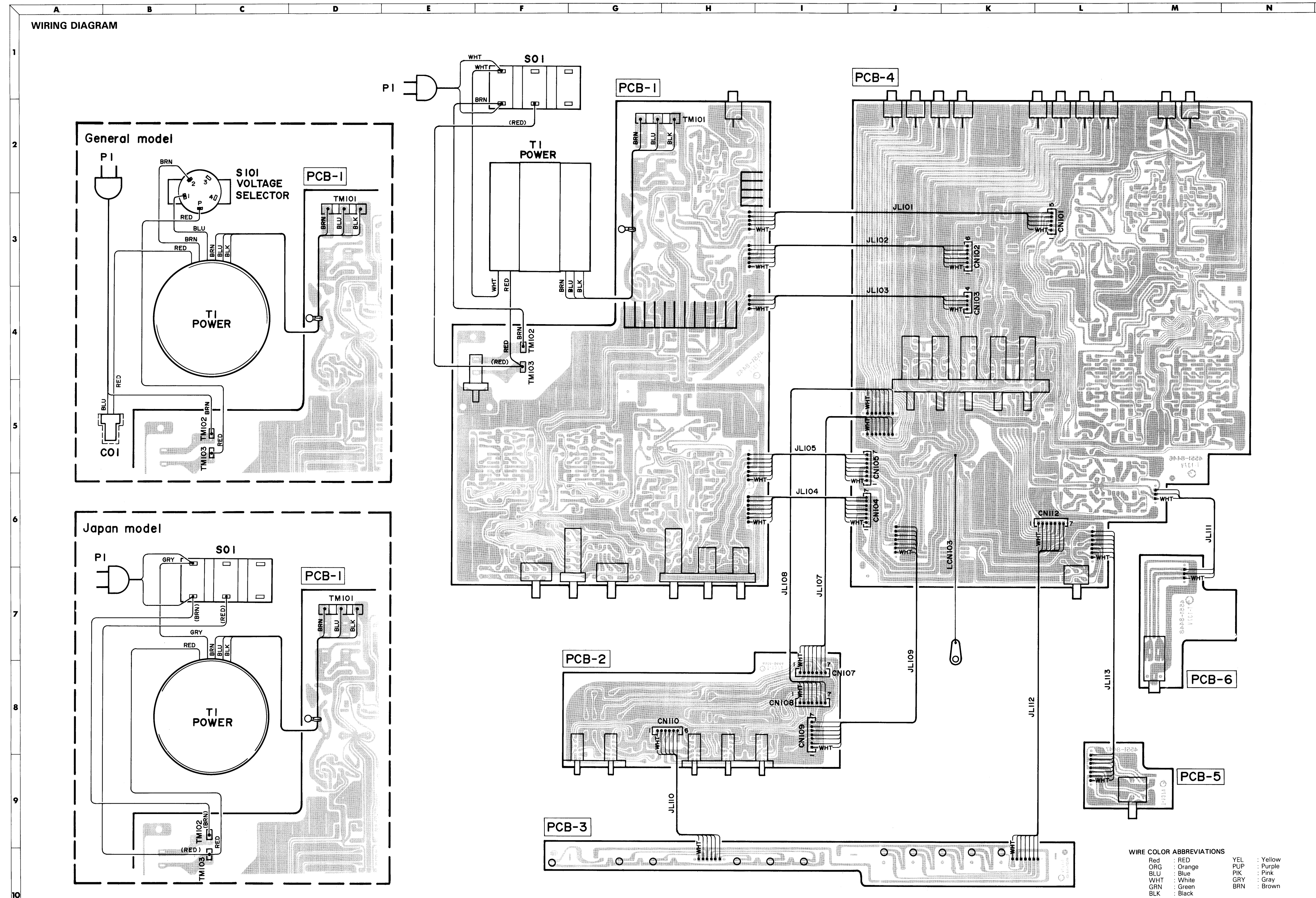
#### PCB-3 FUNCTION INDICATORS P. C. BOARD

#### CAPACITORS

|      |     |               |                                |
|------|-----|---------------|--------------------------------|
| 041B | C70 | 5345-106C0951 | CAP, MINI ELE 10μ/16V <b>N</b> |
| 041B | C71 | 5345-106C0951 | CAP, MINI ELE 10μ/16V <b>N</b> |

## ELECTRICAL PARTS LIST

| Ser. No.                              | Ref. No. | Part No.      | Description                           | Ser. No. | Ref. No.     | Part No.     | Description        |
|---------------------------------------|----------|---------------|---------------------------------------|----------|--------------|--------------|--------------------|
| <b>PCB-I POWER SUPPLY P. C. BOARD</b> |          |               |                                       | 729      | R18          | 5232-104J16P | RES, CBN 1/6P 100K |
| <b>CAPACITORS</b>                     |          |               |                                       | 730      | R19          | 5232-225J16P | RES, CBN 1/6P 2.2M |
| 794                                   | C1       | 5352-1030961  | CAP, MTL .01 $\mu$ <b>UA</b> <b>N</b> | 724      | R20          | 5232-103J16P | RES, CBN 1/6P 10K  |
| 794A                                  | C1       | 5352-1030958  | CAP, MTL .01 $\mu$ <b>G</b>           | 731      | R21          | 5232-222J16P | RES, CBN 1/6P 2.2K |
| 795                                   | C3       | 5352-1041957  | CAP, MTL .1 $\mu$                     | 732      | R22          | 5232-223J16P | RES, CBN 1/6P 22K  |
| 795                                   | C4       | 5352-1041957  | CAP, MTL .1 $\mu$                     | 732      | R23          | 5232-223J16P | RES, CBN 1/6P 22K  |
| 792                                   | C5       | 5341-478F0955 | CAP, ELE 4700 $\mu$ /50V              | 769      | R25          | 5135-331522  | RES, CBN 1/2P 330  |
| 792                                   | C6       | 5341-478F0955 | CAP, ELE 4700 $\mu$ /50V              | 769      | R26          | 5135-331522  | RES, CBN 1/2P 330  |
| 765                                   | C7       | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 767      | R27          | 5135-2R2522  | RES, CBN 1/2P 2.2  |
| 765                                   | C8       | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 767      | R28          | 5135-2R2522  | RES, CBN 1/2P 2.2  |
| 766                                   | C11      | 5345-477D041  | CAP, MINI ELE 470 $\mu$ /25V          | 781      | $\Delta$ R29 | 5102-1004713 | RES, FUSE 10       |
| 766                                   | C12      | 5345-477D041  | CAP, MINI ELE 470 $\mu$ /25V          | 615      | R51          | 5135-182522  | RES, CBN 1/2P 1.8K |
| 777                                   | C15      | 5345-227E041  | CAP, MINI ELE 220 $\mu$ /35V          | 615      | R52          | 5135-182522  | RES, CBN 1/2P 1.8K |
| 778                                   | C16      | 5345-476D041  | CAP, MINI ELE 47 $\mu$ /25V           | 770      | $\Delta$ R55 | 5102-2204715 | RES, FUSE 22       |
| 779                                   | C17      | 5345-107D041  | CAP, MINI ELE 100 $\mu$ /25V          | 770      | $\Delta$ R56 | 5102-2204715 | RES, FUSE 22       |
| 720                                   | C18      | 5345-106D041  | CAP, MINI ELE 10 $\mu$ /25V           | 770      | $\Delta$ R57 | 5102-2204715 | RES, FUSE 22       |
| 721                                   | C19      | 5345-336B0951 | CAP, MINI ELE 33 $\mu$ /10V           | 770      | $\Delta$ R58 | 5102-2204715 | RES, FUSE 22       |
| 047A                                  | C21      | 5361-4732F    | CAP, CER .047 $\mu$ <b>G</b>          | 668      | R501         | 5135-331522  | RES, CBN 1/2P 330  |
| 047A                                  | C22      | 5361-4732F    | CAP, CER .047 $\mu$ <b>G</b>          | 668      | R502         | 5135-331522  | RES, CBN 1/2P 330  |
| 601                                   | C51      | 5345-337C041  | CAP, MINI ELE 330 $\mu$ /16V          | 653      | R503         | 5232-224J16P | RES, CBN 1/6P 220K |
| 601                                   | C52      | 5345-337C041  | CAP, MINI ELE 330 $\mu$ /16V          | 653      | R504         | 5232-224J16P | RES, CBN 1/6P 220K |
| 601                                   | C53      | 5345-337C041  | CAP, MINI ELE 330 $\mu$ /16V          | 654      | R505         | 5232-394J16P | RES, CBN 1/6P 390K |
| 601                                   | C54      | 5345-337C041  | CAP, MINI ELE 330 $\mu$ /16V          | 654      | R506         | 5232-394J16P | RES, CBN 1/6P 390K |
| 764                                   | C55      | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 652      | R507         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 764                                   | C56      | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 652      | R508         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 764                                   | C57      | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 652      | R509         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 764                                   | C58      | 5345-337D041  | CAP, MINI ELE 330 $\mu$ /25V          | 652      | R510         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 629                                   | C501     | 5345-106C0951 | CAP, MINI ELE 10 $\mu$ /16V           | 652      | R511         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 629                                   | C502     | 5345-106C0951 | CAP, MINI ELE 10 $\mu$ /16V           | 652      | R512         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 632                                   | C503     | 5345-107B041  | CAP, MINI ELE 100 $\mu$ /10V          | 652      | R513         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 632                                   | C504     | 5345-107B041  | CAP, MINI ELE 100 $\mu$ /10V          | 652      | R514         | 5232-182J16P | RES, CBN 1/6P 1.8K |
| 630                                   | C505     | 5345-226D0951 | CAP, MINI ELE 22 $\mu$ /25V           | 656      | R515         | 5232-103J16P | RES, CBN 1/6P 10K  |
| 630                                   | C506     | 5345-226D0951 | CAP, MINI ELE 22 $\mu$ /25V           | 656      | R516         | 5232-103J16P | RES, CBN 1/6P 10K  |
| 637                                   | C507     | 5353-010934   | CAP, MCA 1p                           | 656      | R517         | 5232-103J16P | RES, CBN 1/6P 10K  |
| 637                                   | C508     | 5353-010934   | CAP, MCA 1p                           | 656      | R518         | 5232-103J16P | RES, CBN 1/6P 10K  |
| 631                                   | C509     | 5345-476C0951 | CAP, MINI ELE 47 $\mu$ /16V           | 655      | R519         | 5232-271J16P | RES, CBN 1/6P 270  |
| 631                                   | C510     | 5345-476C0951 | CAP, MINI ELE 47 $\mu$ /16V           | 655      | R520         | 5232-271J16P | RES, CBN 1/6P 270  |
| 640                                   | C511     | 5354-273J1HM  | CAP, MYL .027 $\mu$                   | 655      | R521         | 5232-271J16P | RES, CBN 1/6P 270  |
| 640                                   | C512     | 5354-273J1HM  | CAP, MYL .027 $\mu$                   | 655      | R522         | 5232-271J16P | RES, CBN 1/6P 270  |
| 639                                   | C513     | 5354-154593   | CAP, MYL .15 $\mu$                    | 655      | R523         | 5232-271J16P | RES, CBN 1/6P 270  |
| 639                                   | C514     | 5354-154593   | CAP, MYL .15 $\mu$                    | 655      | R524         | 5232-271J16P | RES, CBN 1/6P 270  |
| 642                                   | C515     | 5354-682J1HM  | CAP, MYL 6800p                        | 655      | R525         | 5232-271J16P | RES, CBN 1/6P 270  |
| 642                                   | C516     | 5354-682J1HM  | CAP, MYL 6800p                        | 655      | R526         | 5232-271J16P | RES, CBN 1/6P 270  |
| 641                                   | C517     | 5354-393J1HM  | CAP, MYL .039 $\mu$                   | 657      | R527         | 5232-153J16P | RES, CBN 1/6P 15K  |
| 641                                   | C518     | 5354-393J1HM  | CAP, MYL .039 $\mu$                   | 657      | R528         | 5232-153J16P | RES, CBN 1/6P 15K  |
| 645                                   | C553     | 5354-394593   | CAP, MYL .39 $\mu$                    | 658      | R529         | 5232-473J16P | RES, CBN 1/6P 47K  |
| 645                                   | C554     | 5354-394593   | CAP, MYL .39 $\mu$                    | 658      | R530         | 5232-473J16P | RES, CBN 1/6P 47K  |
| 598                                   | C901     | 5345-104F0951 | CAP, MINI ELE .1 $\mu$ /50V           | 659      | R531         | 5232-274J16P | RES, CBN 1/6P 270K |
| 598                                   | C902     | 5345-104F0951 | CAP, MINI ELE .1 $\mu$ /50V           | 659      | R532         | 5232-274J16P | RES, CBN 1/6P 270K |
| 603                                   | C903     | 5354-154593   | CAP, MYL .15 $\mu$                    | 664      | R533         | 5232-181J16P | RES, CBN 1/6P 180  |
| 603                                   | C904     | 5354-154593   | CAP, MYL .15 $\mu$                    | 664      | R534         | 5232-181J16P | RES, CBN 1/6P 180  |
| 600                                   | C905     | 5345-476D041  | CAP, MINI ELE 47 $\mu$ /25V           | 664      | R535         | 5232-181J16P | RES, CBN 1/6P 180  |
| 600                                   | C906     | 5345-476D041  | CAP, MINI ELE 47 $\mu$ /25V           | 668      | R536         | 5232-181J16P | RES, CBN 1/6P 180  |
| 604                                   | C907     | 5354-334593   | CAP, MYL .33 $\mu$                    | 668      | R537         | 5135-331522  | RES, CBN 1/2P 330  |
| 604                                   | C908     | 5354-334593   | CAP, MYL .33 $\mu$                    | 668      | R538         | 5135-331522  | RES, CBN 1/2P 330  |
| 599                                   | C909     | 5345-224F0951 | CAP, MINI ELE .22 $\mu$ /50V          | 657      | R539         | 5232-153J16P | RES, CBN 1/6P 15K  |
| 599                                   | C910     | 5345-224F0951 | CAP, MINI ELE .22 $\mu$ /50V          | 657      | R540         | 5232-153J16P | RES, CBN 1/6P 15K  |
| <b>RESISTORS</b>                      |          |               |                                       | 660      | R541         | 5232-272J16P | RES, CBN 1/6P 2.7K |
| 769                                   | R3       | 5135-331522   | RES, CBN 1/2P 330                     | 660      | R542         | 5232-272J16P | RES, CBN 1/6P 2.7K |
| 769                                   | R4       | 5135-331522   | RES, CBN 1/2P 330                     | 661      | R543         | 5232-122J16P | RES, CBN 1/6P 1.2K |
| 768                                   | R5       | 5135-101522   | RES, CBN 1/2P 100                     | 661      | R544         | 5232-122J16P | RES, CBN 1/6P 1.2K |
| 768                                   | R6       | 5135-101522   | RES, CBN 1/2P 100                     | 662      | R545         | 5232-121J16P | RES, CBN 1/6P 120  |
| 782                                   | R9       | 5135-222522   | RES, CBN 1/2P 2.2K                    | 662      | R546         | 5232-121J16P | RES, CBN 1/6P 120  |
| 723                                   | R10      | 5135-182522   | RES, CBN 1/2P 1.8K                    | 651      | R547         | 5232-331J16P | RES, CBN 1/6P 330  |
| 723                                   | R11      | 5135-182522   | RES, CBN 1/2P 1.8K                    | 651      | R548         | 5232-331J16P | RES, CBN 1/6P 330  |
| 724                                   | R12      | 5232-103J16P  | RES, CBN 1/6P 10K                     | 657      | R549         | 5232-153J16P | RES, CBN 1/6P 15K  |
| 726                                   | R13      | 5232-334J16P  | RES, CBN 1/6P 330K                    | 657      | R550         | 5232-153J16P | RES, CBN 1/6P 15K  |
| 725                                   | R14      | 5232-472J16P  | RES, CBN 1/6P 4.7K                    | 663      | R551         | 5232-122J16P | RES, CBN 1/6P 1.2K |
| 727                                   | R15      | 5232-684J16P  | RES, CBN 1/6P 680K                    | 663      | R552         | 5232-122J16P | RES, CBN 1/6P 1.2K |
| 728                                   | R16      | 5232-224J16P  | RES, CBN 1/6P 220K                    | 665      | R553         | 5232-202J16P | RES, CBN 1/6P 2K   |
| 729                                   | R17      | 5232-104J16P  | RES, CBN 1/6P 100K                    | 665      | R554         | 5232-202J16P | RES, CBN 1/6P 2K   |
|                                       |          |               |                                       | 667      | R555         | 5232-121J16P | RES, CBN 1/6P 120  |



### SCHEMATIC DIAGRAM

