

SERVICE MANUAL



pe1mmk

C275BEE C/AH
STEREO AMPLIFIER

C275BEE C/AH

STEREO AMPLIFIER

CONTENTS

| | |
|---|-------|
| FRONT PANEL/REAR PANEL VIEW | 3 |
| SPECIFICATIONS..... | 4 |
| ALIGNMENT PROCEDURE/ALIGNMENT POINTS..... | 5 |
| WIRING DIAGRAM..... | 6 |
| SCHEMATIC DIAGRAM..... | 7-12 |
| PCB LAYOUT..... | 13-18 |
| ELECTRICAL PARTS LIST..... | 19-32 |
| EXPLODED VIEW..... | 33 |
| EXPLODED VIEW PARTS LIST..... | 34 |
| PACKING DIAGRAM..... | 35 |

SERVICE SAFETY PRECAUTIONS

1. Replacing the Fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

| REFERENCE NO. | PART NUMBER | DESCRIPTION |
|----------------------|--------------|--------------------------|
| Rear Panel | | |
| AH ▲ | A20-12103-00 | Littelfuse618 T10AL/250V |
| C ▲ | A20-12702-20 | Littelfuse618 T5AL/250V |
| STANDBY Board | | |
| F401 | A20-12102-00 | Littelfuse618 T1AL/250V |

NOTE:

*AH : North American version only

*C : European version only

2. Safety-check out (North American model only)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit.

Parts marked with the symbol ▲ are critical with regard to the risk of fire and electric shock. Replace only parts recommended by the manufacturer.

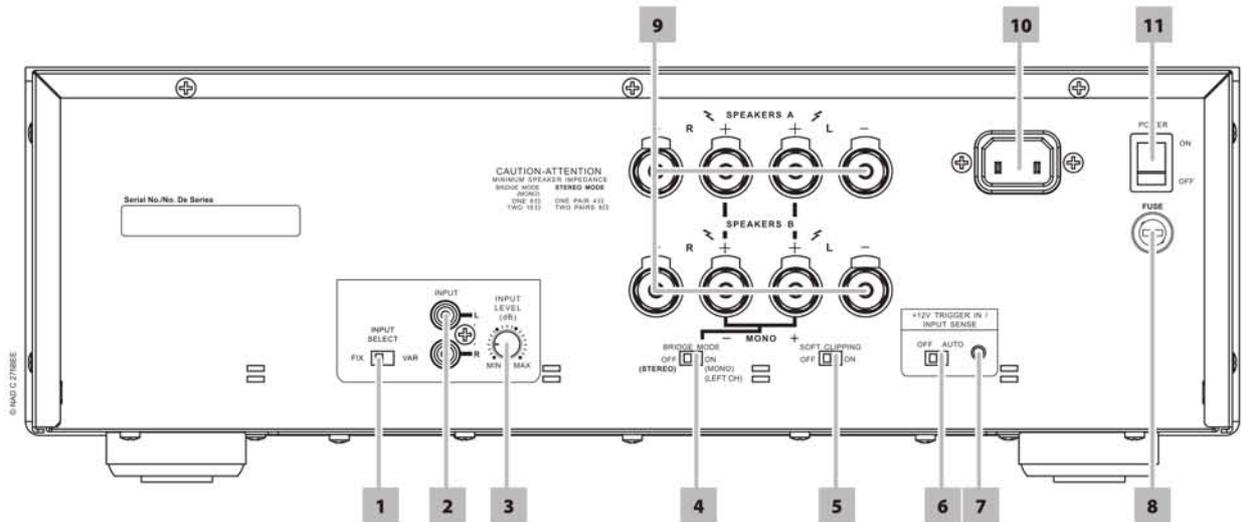
FRONT PANEL / REAR PANEL VIEW

FRONT PANEL CONTROLS



- 1 STANDBY BUTTON
- 2 STANDBY LED
- 3 BRIDGE MODE INDICATOR
- 4 SOFT CLIPPING INDICATOR

REAR PANEL CONTROLS



- | | |
|--|----------------------|
| 1 INPUT SELECT | 7 +12V TRIGGER INPUT |
| 2 INPUT | 8 FUSE HOLDER |
| 3 INPUT LEVEL CONTROL | 9 SPEAKERS A, B |
| 4 BRIDGE MODE | 10 AC MAINS INPUT |
| 5 SOFT CLIPPING™ | 11 POWER SWITCH |
| 6 +12V TRIGGER IN/INPUT SENSE - OFF/AUTO | |

SPECIFICATIONS

FIXED IN, SPEAKER OUT

| | |
|---|----------------|
| Continuous average power , stereo,8 and 4 ohms at rated thd ,20-20k | > 150W |
| Continuous average power 8 ohms , bridge mode | > 330W |
| Rated thd, 20-20k, SMPTE and CCIF IMD, DIM 100 | < 0.009% |
| Clipping power (1% thd at 1kHz) | >170W |
| IHF dynamic power 8 ohms | >250W |
| IHF dynamic power 4 ohms | >410W |
| IHF dynamic power 2 ohms | >600W |
| IHF dynamic power 8 ohms(Bridge Mode) | >800W |
| IHF dynamic power 4 ohms(Bridge Mode) | >1200W |
| Peak output current 1msec, 1 ohm | > 50A |
| S/N A wtd re 1 W | >102 dB |
| S/N A Wtd re 150W | >123 dB |
| Damping factor (re 8 ohms, 50 Hz and 1kHz) | > 180 |
| Frequency response 20-20k | < +/- 0.1 dB |
| Frequency response - 3dB | 3Hz – 100 kHz |
| Input impedance (Fixed In) | 10kohms+200pF |
| Input impedance (Variable In) | 100kohms+200pF |
| Input sensitivity for rated power | 1.2 V |
| Voltage gain | 29dB |
| Channel separation. 1kHz | > 85 dB |
| 10kHz | > 75 dB |
| Minimum Input Level for AUTO TRIGGER | 1mV at 1KHz |
| Time to power OFF at no signal in AUTO mode | < 10 minutes |
| Rated power (230 or 120 V AC 50.60 Hz) | 312 W |
| Standby power | <1W |
| Idle power | <100W |
| Net weight | 14.6 kg |
| Shipping weight | 16.9 kg |
| Dimensions | 435x133x352 mm |

ALIGNMENT PROCEDURE

A. DC OFFSET VOLTAGE

The DC OFFSET between OFFSET Test Point and AGND must be within 0 \pm 20mV.

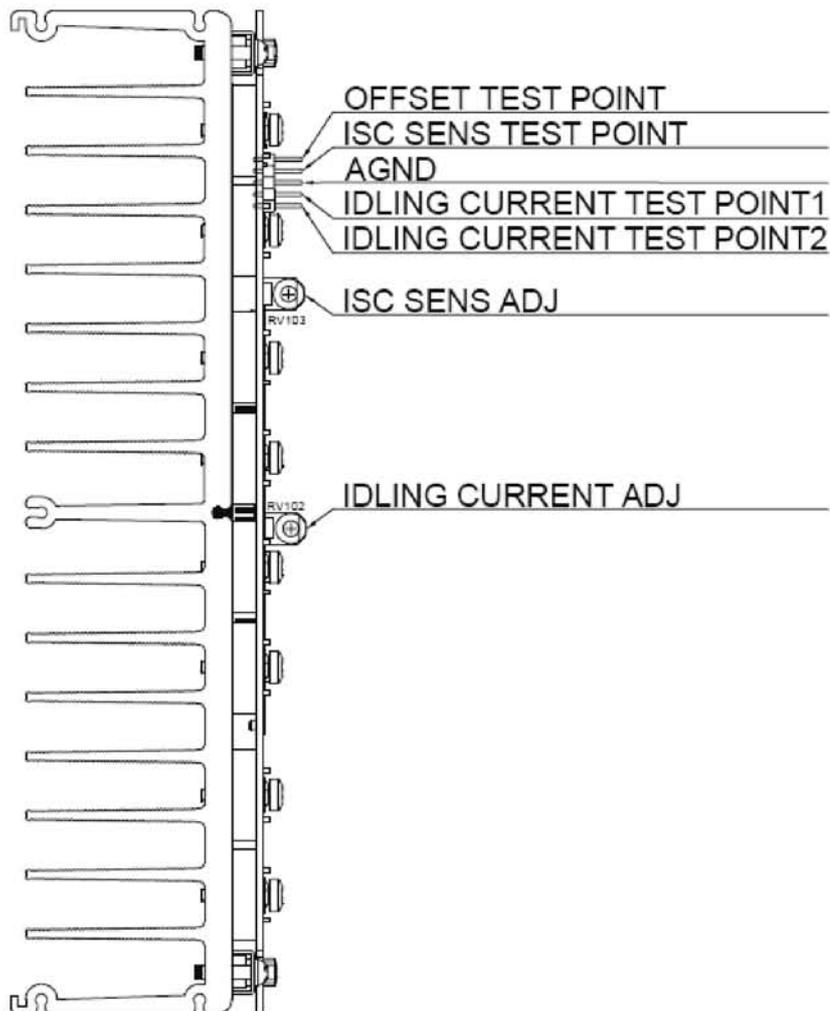
B. IDLING CURRENT

The idling current in the output stage of the poweramp should be set to 30mA \pm 5mA per pnp-npn transistor pair (This means the mid point voltage is 6.6mV with down limit of 5.5mV and up limit of 7.7mV). The alignment procedure is: At first, adjust RV102 (Marked as "Idling Current ADJ" in the drawing below) for a voltage of 6.6mV \pm 1mV between Test point 1 and 2. Then preheat the unit for 1 minutes, let idling current settled and then readjust to 6.6mV \pm 1mV. This is a no-load adjustment.

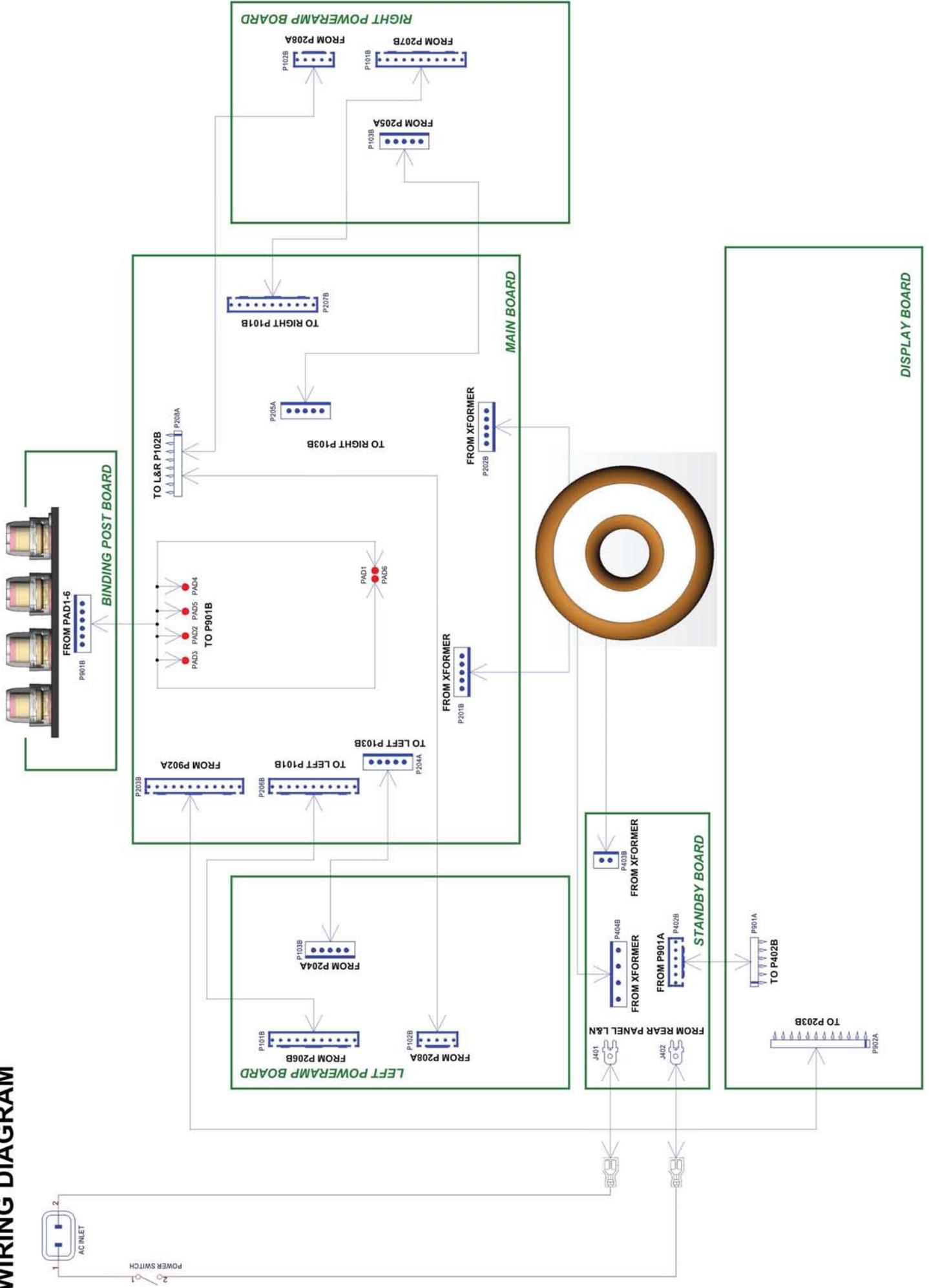
Pls note: Though the idling current is set as 6.6mV \pm 1mV during the adjustment, due to the influence of varied ambient temperature and mains voltage etc., the idling current will drift after some time. During the normal checking of idling current in the service field, it's acceptable as long as the voltage is in the range of 5.5mV—7.7mV

C. ISC SENSITIVITY

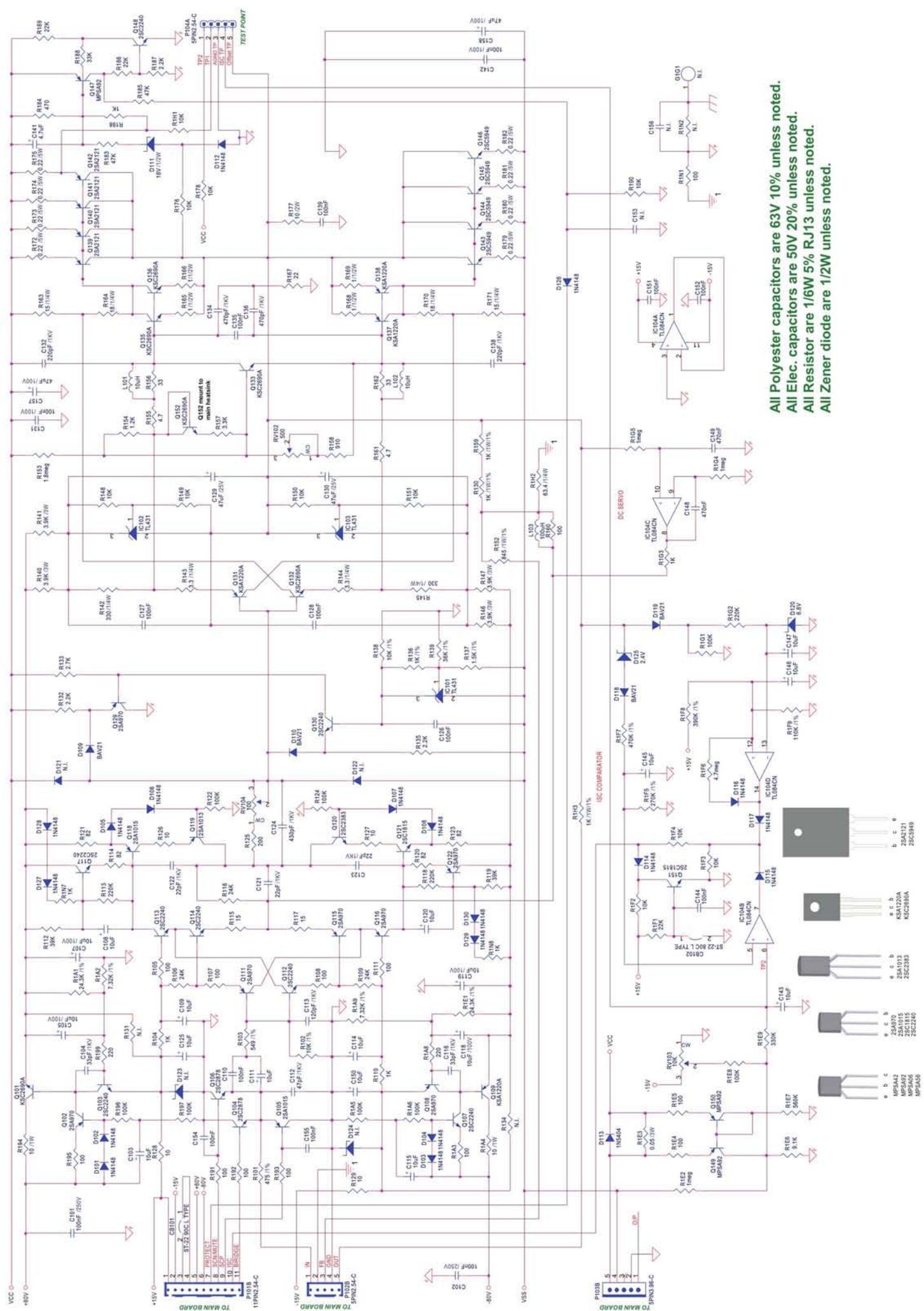
The ISC sensing voltage can allow 0mV \pm 50mV. But, for the alignment process in our factory, we tighten the limit to 0mV \pm 10mV. That is to adjust Pot RV103 (as marked as "ISC SENS ADJ" in the below drawing) to get a voltage between the "ISC SENSE TEST POINT" and AGND to be 0mV \pm 10mV.



WIRING DIAGRAM

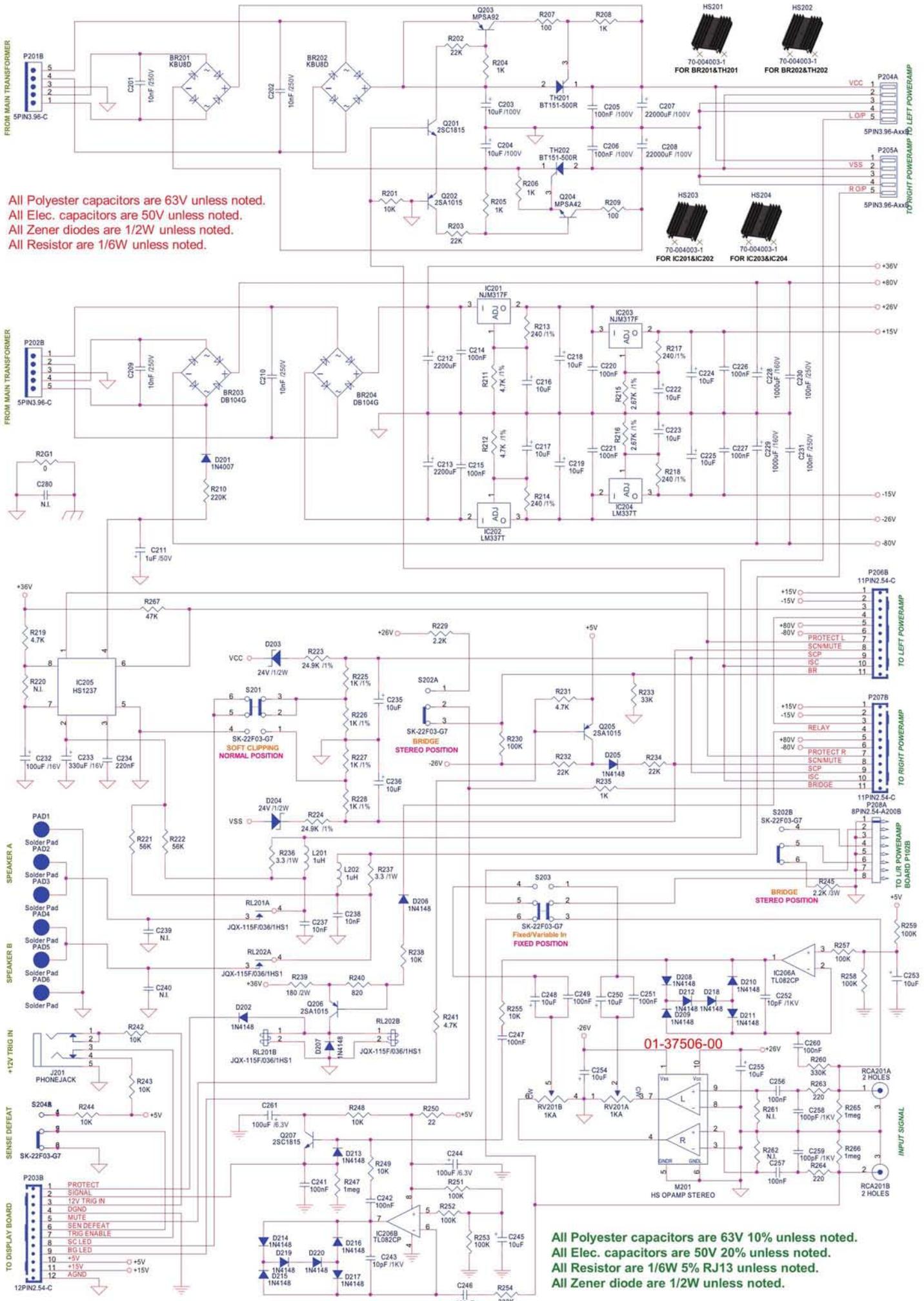


SCHEMATICS DIAGRAM



All Polyester capacitors are 63V 10% unless noted.
 All Elec. capacitors are 50V 20% unless noted.
 All Resistor are 1/6W 5% RJ13 unless noted.
 All Zener diode are 1/2W unless noted.

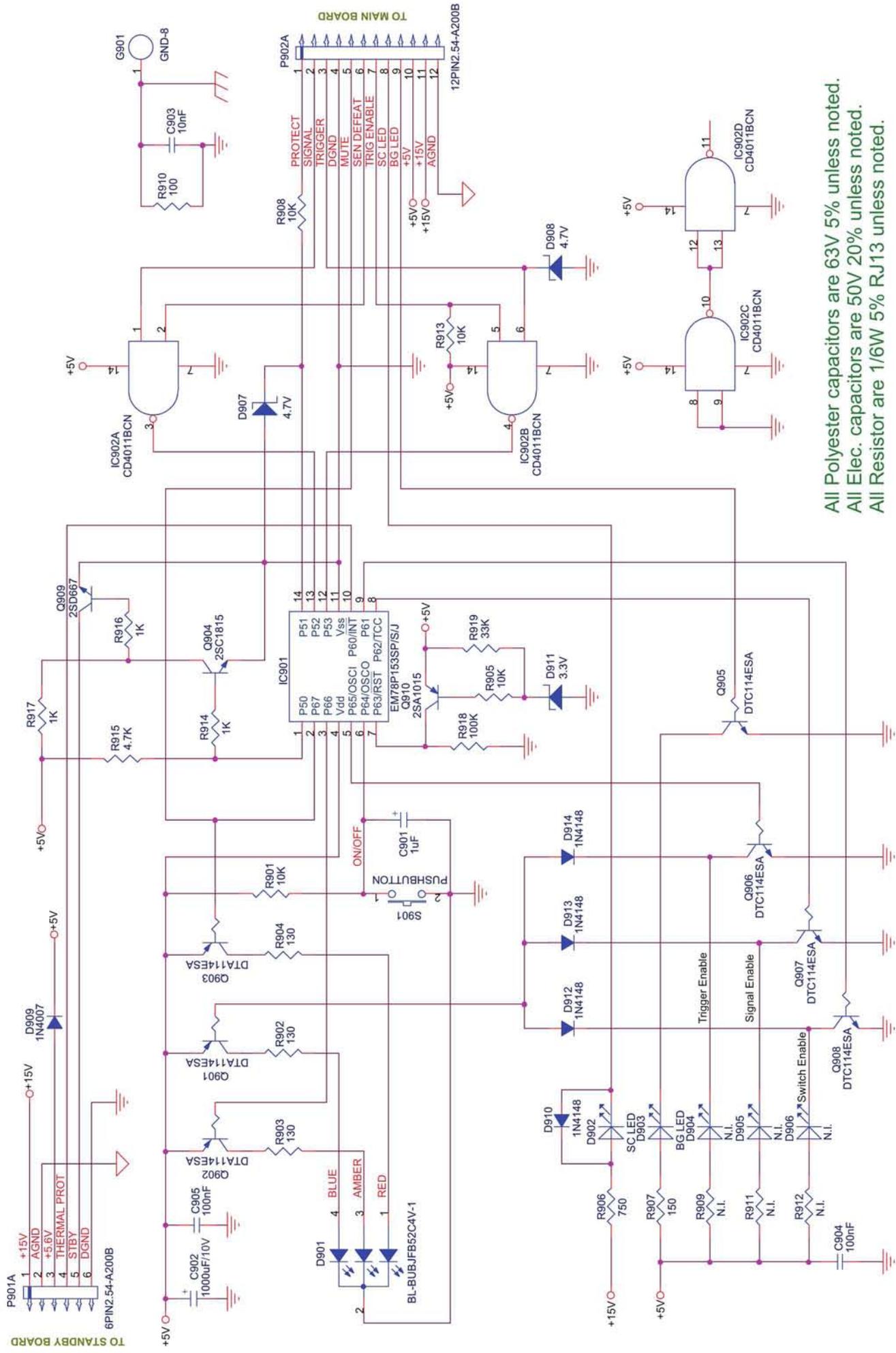
SCHEMATICS DIAGRAM



All Polyester capacitors are 63V unless noted.
 All Elec. capacitors are 50V unless noted.
 All Zener diodes are 1/2W unless noted.
 All Resistor are 1/6W unless noted.

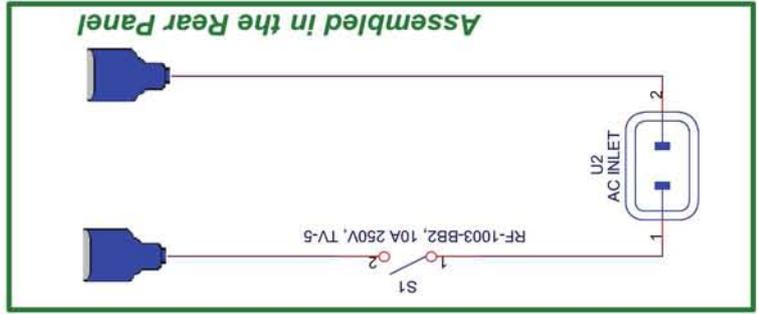
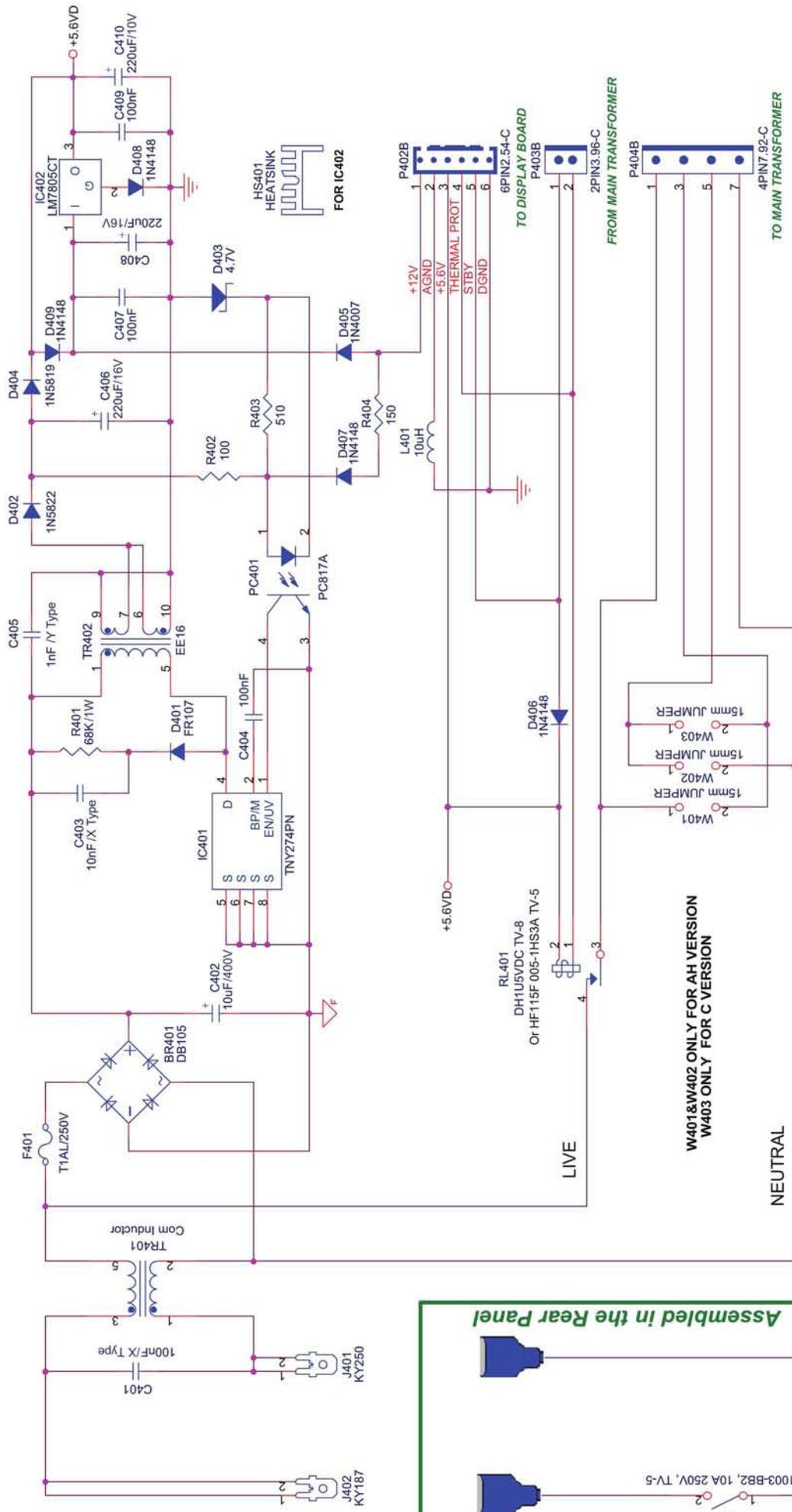
All Polyester capacitors are 63V 10% unless noted.
 All Elec. capacitors are 50V 20% unless noted.
 All Resistor are 1/6W 5% RJ13 unless noted.
 All Zener diode are 1/2W unless noted.

SCHEMATICS DIAGRAM



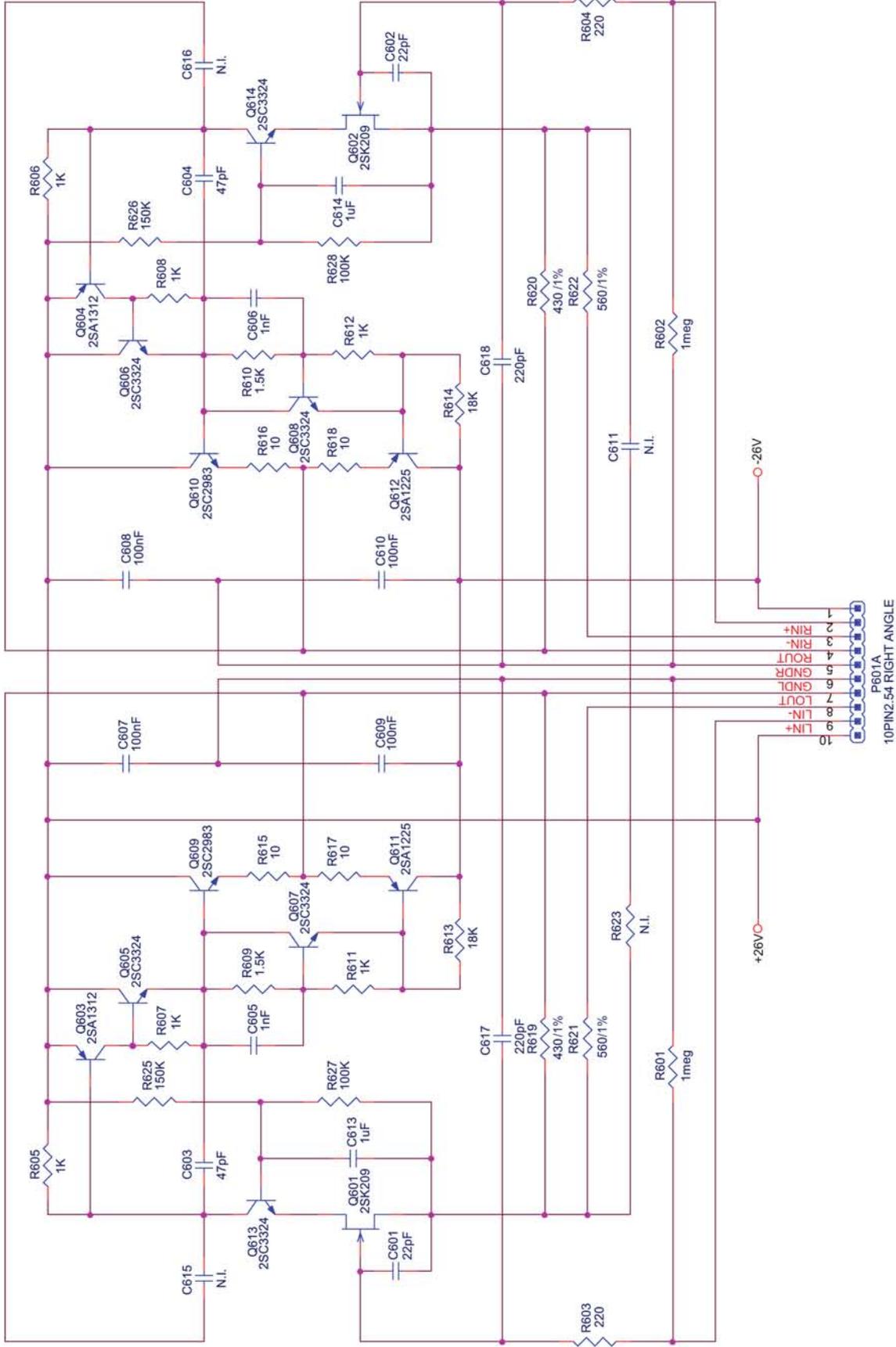
All Polyester capacitors are 63V 5% unless noted.
 All Elec. capacitors are 50V 20% unless noted.
 All Resistor are 1/6W 5% RJ13 unless noted.

SCHEMATICS DIAGRAM



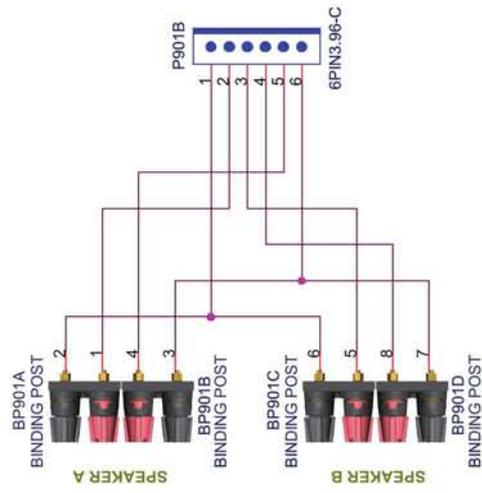
All Polyester capacitors are 63V 5% unless noted.
All Elec. capacitors are 50V 20% unless noted.
All Resistor are 1/6W 5% RJ13 unless noted.
All Zener diode are 1/2W unless noted.

SCHEMATICS DIAGRAM (01-37506-00)



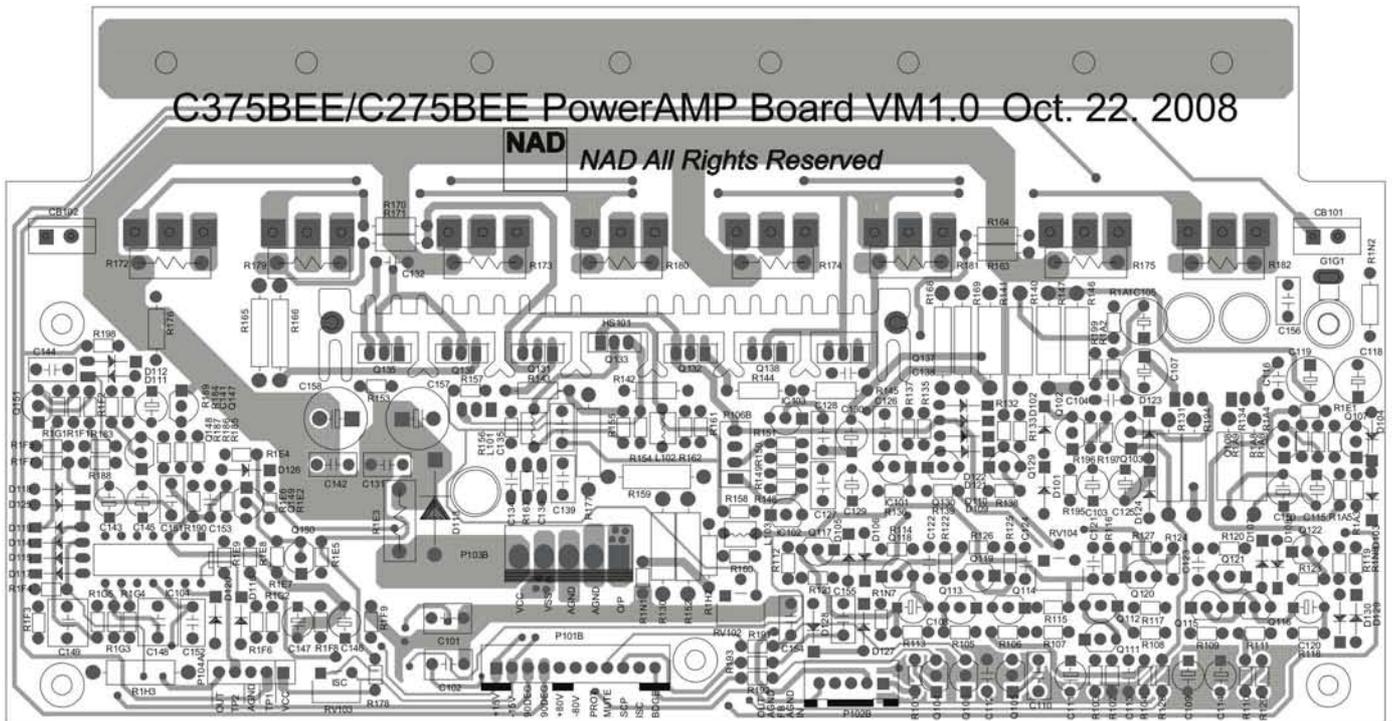
All Capacitors are SMD0805 5% unless noted.
 All Resistor are SMD0805 1/10W 5% unless noted.

SCHEMATICS DIAGRAM

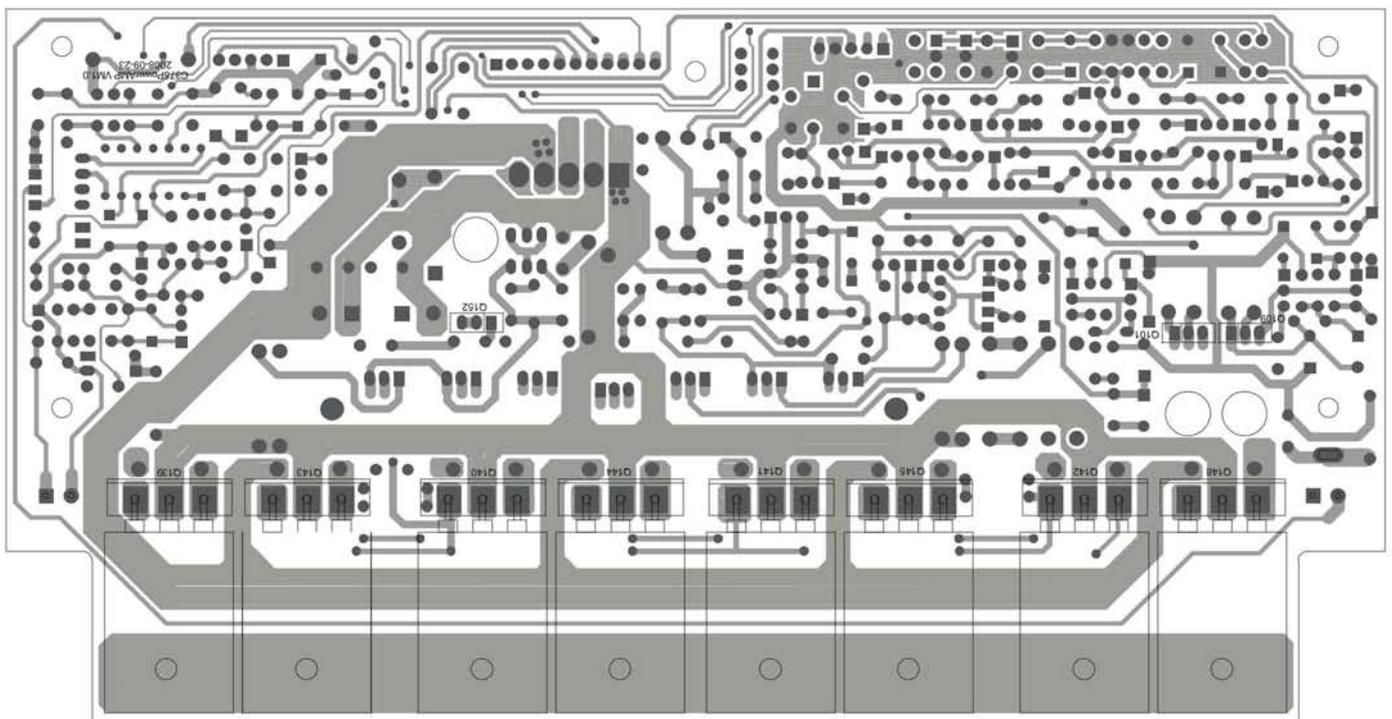


PCB LAYOUT

C375BEE/C275BEE AMP BOARD - COMPONENT SIDE

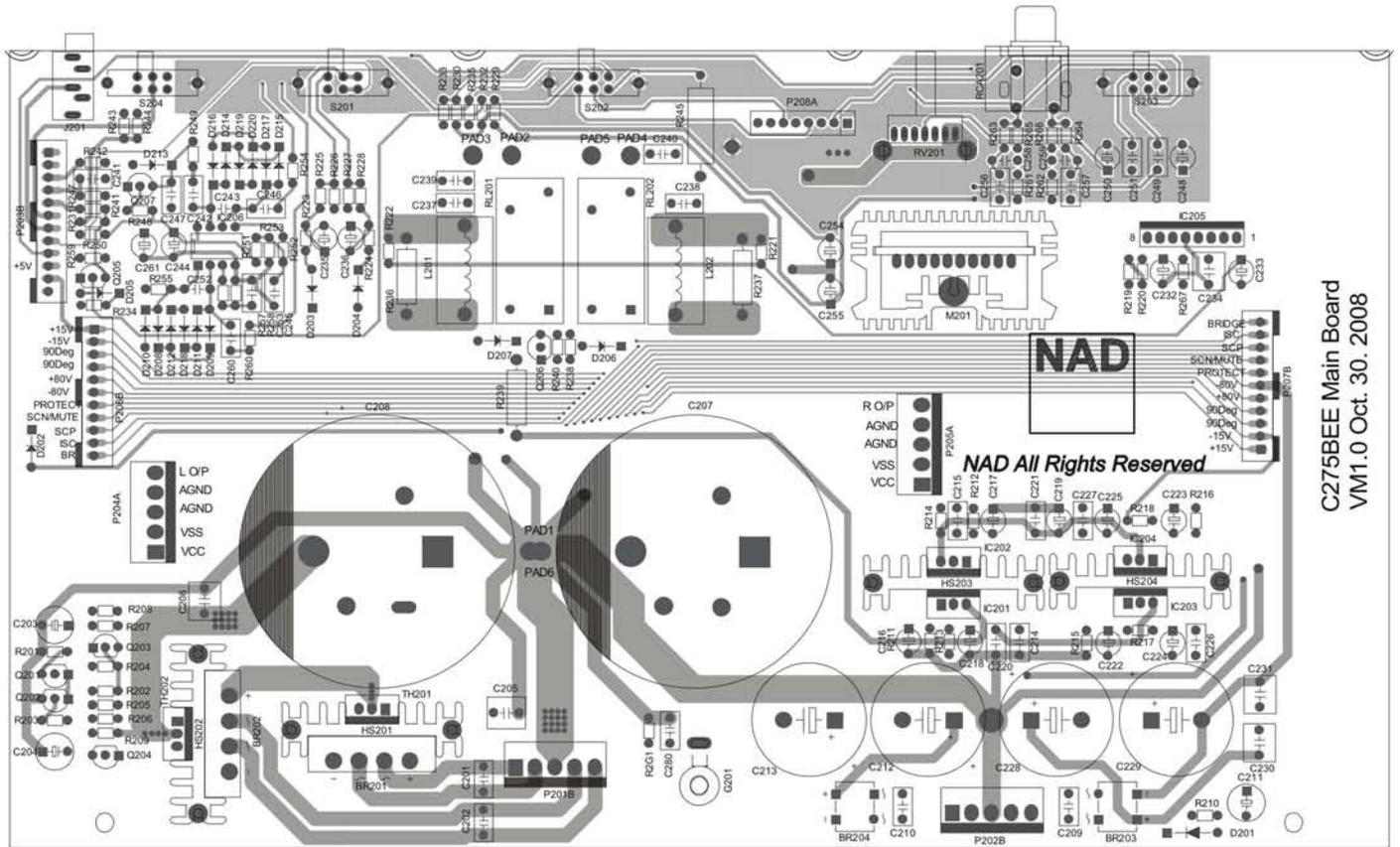


C375BEE/C275BEE AMP BOARD - SOLDER SIDE



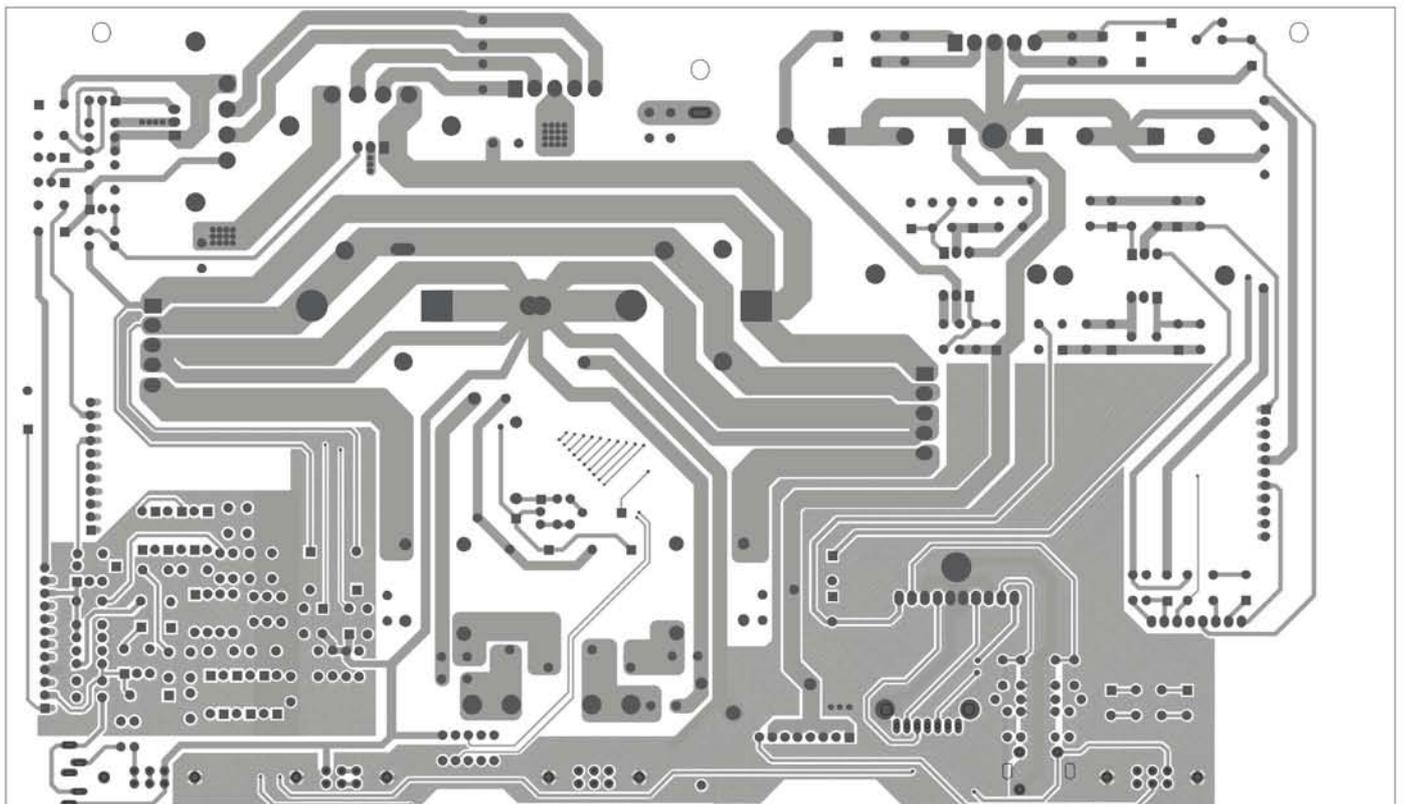
PCB LAYOUT

C275BEE MAIN BOARD - COMPONENT SIDE



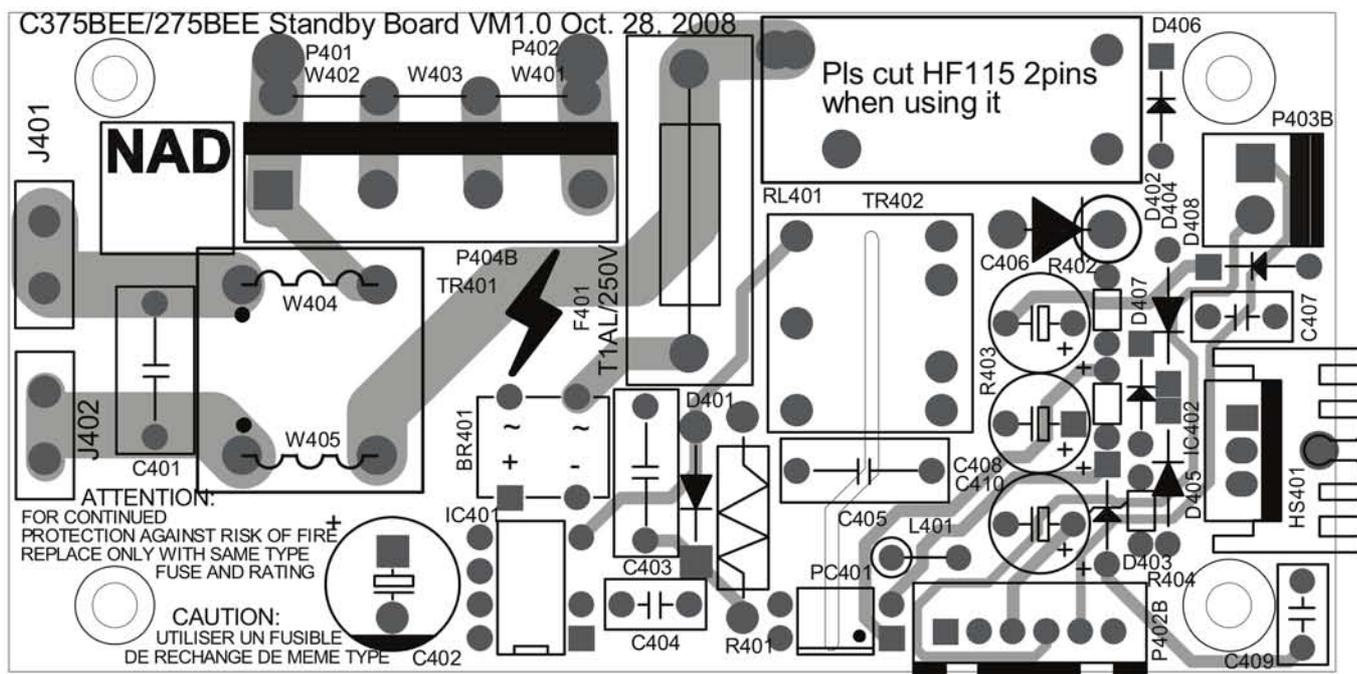
C275BEE Main Board
VM1.0 Oct. 30. 2008

C275BEE MAIN BOARD - SOLDER SIDE

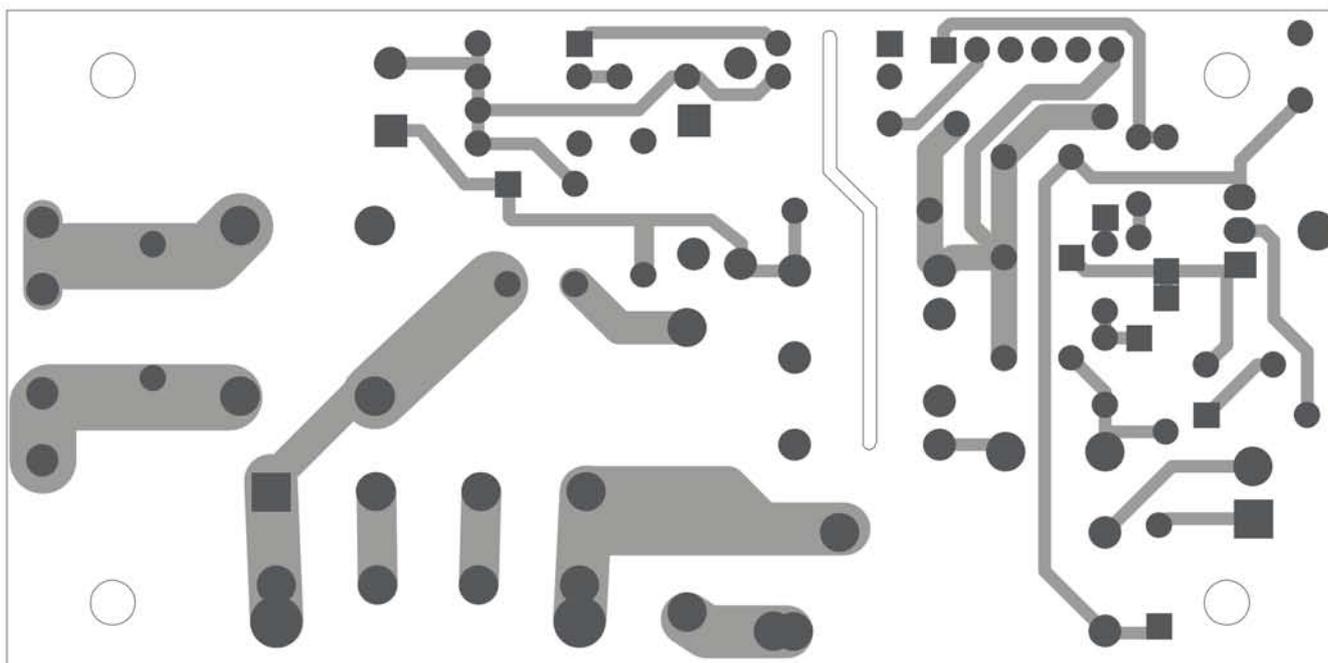


PCB LAYOUT

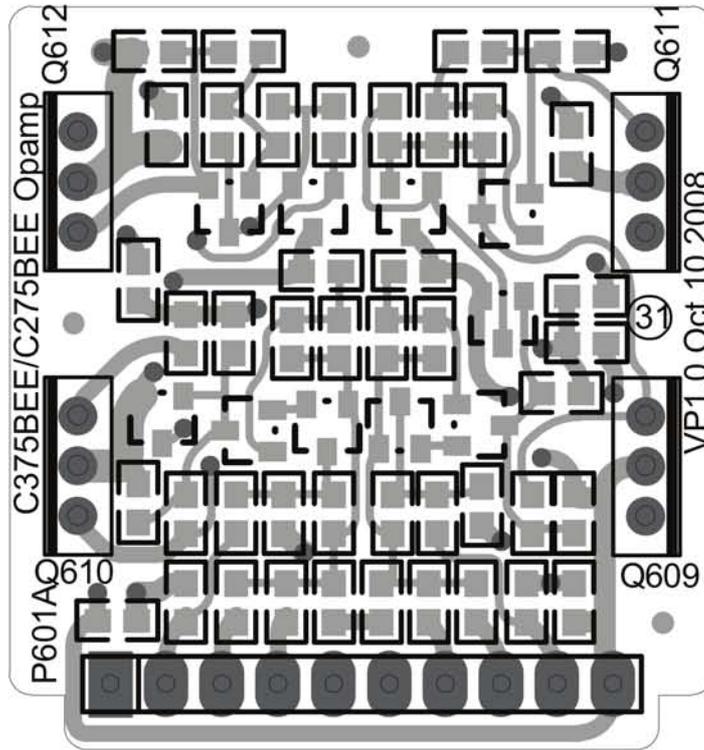
C375BEE/275BEE STANDBY BOARD - COMPONENT SIDE



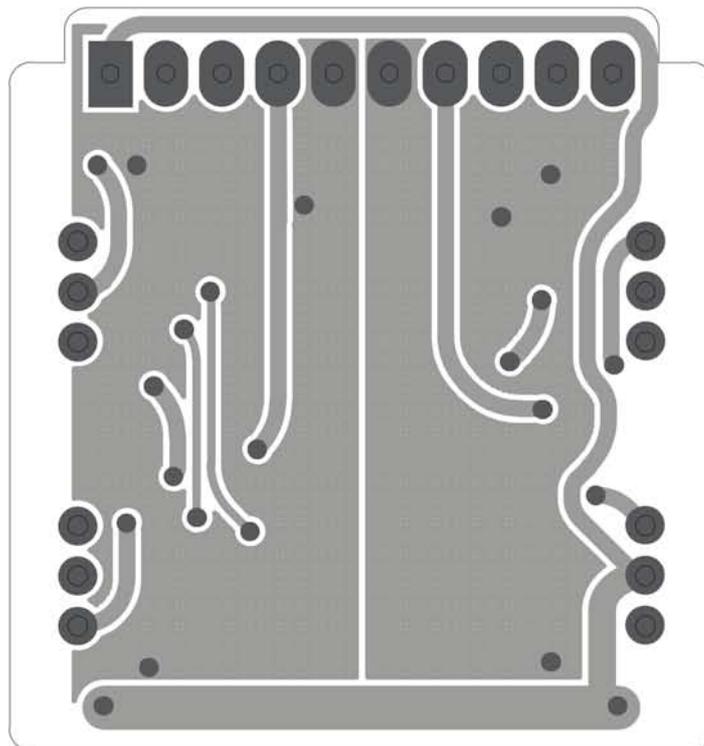
C375BEE/275BEE STANDBY BOARD - SOLDER SIDE



C375BEE/C275BEE Opamp BOARD - COMPONENT SIDE

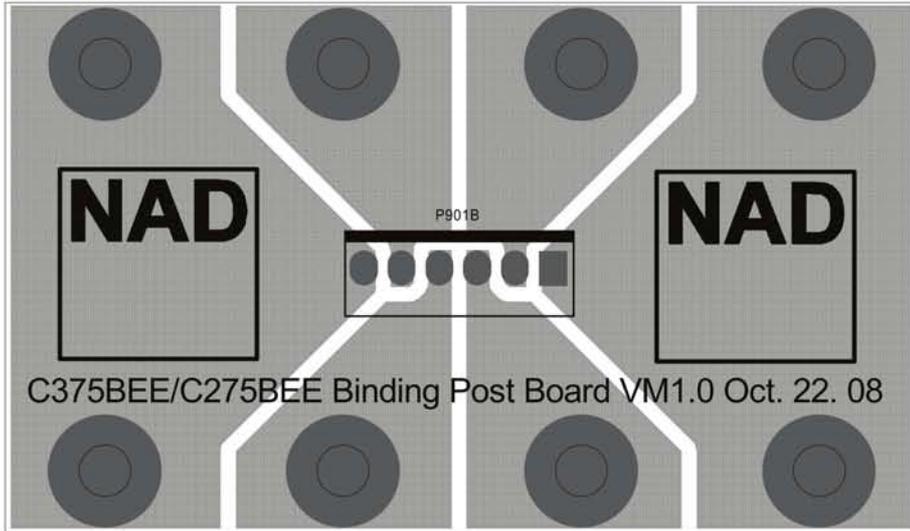


C375BEE/C275BEE Opamp BOARD - SOLDER SIDE

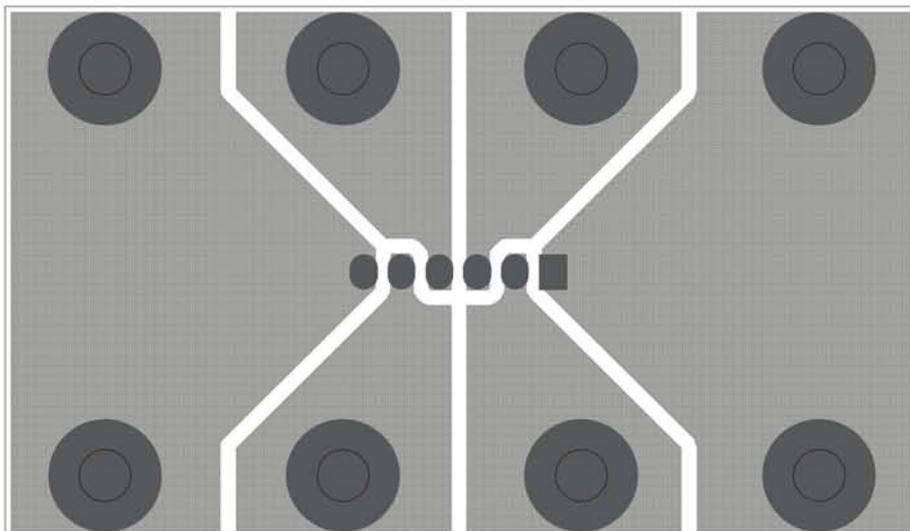


PCB LAYOUT

C375BEE/C275BEE Binding Post Board - COMPONENT SIDE



C375BEE/C275BEE Binding Post Board - SOLDER SIDE



ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|---|-----------------|--------------|--------------|--------------------|
| P/N 01-37501-00 PCB1 BOARD (POWERAMP MODULE) | | | | |
| DIODE | | | | |
| D101 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D102 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D103 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D104 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D105 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D106 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D107 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D108 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D109 | Switch Diode | BAV21 | 33-40021-00 | DAX/.300X.080/.031 |
| D110 | Switch Diode | BAV21 | 33-40021-00 | DAX/.300X.080/.031 |
| D111 | Switch Diode | 18V, 1/2W | 33-11800-00 | DAX/.300X.080/.031 |
| D112 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D113 | Rectifier Diode | 1N5404 | 33-25404-02 | DAX/.600X.200/.059 |
| D114 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D115 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D116 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D117 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D118 | Switch Diode | BAV21 | 33-40021-00 | DAX/.300X.080/.031 |
| D119 | Switch Diode | BAV21 | 33-40021-00 | DAX/.300X.080/.031 |
| D120 | Zener Diode | 6.8V, 1/2W | 33-16809-00 | DAX/.300X.080/.031 |
| D125 | Switch Diode | 2.4V, 1/2W | 33-12409-00 | DAX/.300X.080/.031 |
| D126 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D127 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D128 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D129 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D130 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| TRANSISTOR | | | | |
| Q101 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |
| Q102 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q103 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q104 | Transistor | 2SC2878 | J31-02878-00 | TO92/100/ECB |
| Q105 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| Q106 | Transistor | 2SC2878 | J31-02878-00 | TO92/100/ECB |
| Q107 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q108 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q109 | Transistor | KSA1220AYSTU | 31-01220-00 | TO126/90/ECB |
| Q111 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q112 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q113 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q114 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q115 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q116 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q117 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q118 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| Q119 | Transistor | 2SA1013-O | J31-01013-00 | TO92/100/ECB |
| Q120 | Transistor | 2SC2383-O | J31-02383-00 | TO92/100/ECB |
| Q121 | Transistor | 2SC1815-GR | 31-01815-00 | TO92/100/ECB |
| Q122 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q129 | Transistor | 2SA970-GR | J31-00970-00 | TO92/100/ECB |
| Q130 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q131 | Transistor | KSA1220AYSTU | 31-01220-00 | TO126/90/ECB |
| Q132 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|-----------------------|-----------------------|------------------|---------------|------------------------|
| Q133 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |
| Q135 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |
| Q136 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |
| Q137 | Transistor | KSA1220AYSTU | 31-01220-00 | TO126/90/ECB |
| Q138 | Transistor | KSA1220AYSTU | 31-01220-00 | TO126/90/ECB |
| Q139 | Transistor | 2SA2121-O | J31-02121-00 | TO264/215/BCE |
| Q140 | Transistor | 2SA2121-O | J31-02121-00 | TO264/215/BCE |
| Q141 | Transistor | 2SA2121-O | J31-02121-00 | TO264/215/BCE |
| Q142 | Transistor | 2SA2121-O | J31-02121-00 | TO264/215/BCE |
| Q143 | Transistor | 2SC5949-O | J31-05949-00 | TO264/215/BCE |
| Q144 | Transistor | 2SC5949-O | J31-05949-00 | TO264/215/BCE |
| Q145 | Transistor | 2SC5949-O | J31-05949-00 | TO264/215/BCE |
| Q146 | Transistor | 2SC5949-O | J31-05949-00 | TO264/215/BCE |
| Q147 | Transistor | MPSA92 | 31-00092-00 | TO92/100/EBC |
| Q148 | Transistor | 2SC2240-GR | J31-02240-00 | TO92/100/ECB |
| Q149 | Transistor | MPSA92 | 31-00092-00 | TO92/100/EBC |
| Q150 | Transistor | MPSA92 | 31-00092-00 | TO92/100/EBC |
| Q151 | Transistor | 2SC1815-GR | 31-01815-00 | TO92/100/ECB |
| Q152 | Transistor | KSC2690AYSTU | 31-02690-00 | TO126/90/ECB |
| THERMAL SWITCH | | | | |
| CB101 | THERMAL CIRCUIT BRAKE | ST-22 90C L TYPE | JA07-70022-09 | TO220AC/SURFACE |
| CB102 | THERMAL CIRCUIT BRAKE | ST-22 80C L TYPE | JA07-70022-08 | TO220AC/SURFACE |
| IC | | | | |
| IC101 | Shunt Regulator | TL431 | 03-00431-02 | TO-92 |
| IC102 | Shunt Regulator | TL431 | 03-00431-02 | TO-92 |
| IC103 | Shunt Regulator | TL431 | 03-00431-02 | TO-92 |
| IC104 | QUAD OP-AMP | TL084CN | 03-00084-00 | DIP.100/14/W.300/L.750 |
| RESISTOR | | | | |
| R101 | Metal Film Resistor | 475Ω, 1/6W, ±1% | 07-24750-50 | AXJ.200X.080/.031 |
| R102 | Metal Film Resistor | 10KΩ, 1/6W, 1% | 07-21002-50 | AXJ.200X.080/.031 |
| R103 | Metal Film Resistor | 549Ω, 1/6W, ±1% | 07-25490-50 | AXJ.200X.080/.031 |
| R104 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R105 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R106 | Metal Film Resistor | 24KΩ, 1/6W, ±5% | 07-20243-50 | AXJ.200X.080/.031 |
| R107 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R108 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R109 | Metal Film Resistor | 24KΩ, 1/6W, ±5% | 07-20243-50 | AXJ.200X.080/.031 |
| R110 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R111 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R112 | Metal Film Resistor | 39KΩ, 1/6W, ±5% | 07-20393-50 | AXJ.200X.080/.031 |
| R113 | Metal Film Resistor | 220KΩ, 1/6W, 5% | 07-20224-50 | AXJ.200X.080/.031 |
| R114 | Metal Film Resistor | 82Ω, 1/6W, 5% | 07-20820-50 | AXJ.200X.080/.031 |
| R115 | Metal Film Resistor | 15Ω, 1/6W, ±5% | 07-20150-50 | AXJ.200X.080/.031 |
| R116 | Metal Film Resistor | 24KΩ, 1/6W, ±5% | 07-20243-50 | AXJ.200X.080/.031 |
| R117 | Metal Film Resistor | 15Ω, 1/6W, ±5% | 07-20150-50 | AXJ.200X.080/.031 |
| R118 | Metal Film Resistor | 220KΩ, 1/6W, 5% | 07-20224-50 | AXJ.200X.080/.031 |
| R119 | Metal Film Resistor | 39KΩ, 1/6W, ±5% | 07-20393-50 | AXJ.200X.080/.031 |
| R120 | Metal Film Resistor | 82Ω, 1/6W, 5% | 07-20820-50 | AXJ.200X.080/.031 |
| R121 | Metal Film Resistor | 82Ω, 1/6W, 5% | 07-20820-50 | AXJ.200X.080/.031 |
| R122 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R123 | Metal Film Resistor | 82Ω, 1/6W, 5% | 07-20820-50 | AXJ.200X.080/.031 |
| R124 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R125 | Metal Film Resistor | 200Ω, 1/6W, ±5% | 07-20201-50 | AXJ.400X.100/.031 |
| R126 | Metal Film Resistor | 10Ω, 1/6W, 5% | 07-20100-50 | AXJ.200X.080/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|------------|---------------------------|------------------|-------------|-------------------------------|
| R127 | Metal Film Resistor | 10Ω, 1/6W, 5% | 07-20100-50 | AXJ.200X.080/.031 |
| R128 | Metal Film Resistor | 10Ω, 1/6W, 5% | 07-20100-50 | AXJ.200X.080/.031 |
| R129 | Metal Film Resistor | 10Ω, 1/6W, 5% | 07-20100-50 | AXJ.200X.080/.031 |
| R130 | Metal Film Resistor | 1KΩ, 1W, ±1% | 07-21001-01 | AXJ.600X.125/.039 |
| R132 | Metal Film Resistor | 2K2Ω, 1/6W, 5% | 07-20222-50 | AXJ.200X.080/.031 |
| R133 | Metal Film Resistor | 2.7KΩ, 1/6W, ±5% | 07-20272-50 | AXJ.200X.080/.031 |
| R135 | Metal Film Resistor | 2K2Ω, 1/6W, 5% | 07-20222-50 | AXJ.200X.080/.031 |
| R136 | Metal Film Resistor | 1KΩ, 1/6W, 1% | 07-21001-50 | AXJ.200X.080/.031 |
| R137 | Metal Film Resistor | 1.5KΩ, 1/6W, ±1% | 07-21501-50 | AXJ.200X.080/.031 |
| R138 | Metal Film Resistor | 10KΩ, 1/6W, 1% | 07-21002-50 | AXJ.200X.080/.031 |
| R139 | Metal Film Resistor | 36KΩ, 1/6W, ±1% | 07-23602-50 | AXJ.200X.080/.031 |
| R140 | Metal Oxide Film Resistor | 3.9KΩ, 3W, ±5% | 07-30392-03 | AXJ.600X.125/.039 |
| R141 | Metal Oxide Film Resistor | 3.9KΩ, 3W, ±5% | 07-30392-03 | AXJ.600X.125/.039 |
| R142 | Metal Film Resistor | 330Ω, 1/4W, ±5% | 07-20331-51 | AXJ.400X.100/.031 |
| R143 | Metal Film Resistor | 3.3Ω, 1/4W, ±5% | 07-20339-51 | AXJ.400X.100/.031 |
| R144 | Metal Film Resistor | 3.3Ω, 1/4W, ±5% | 07-20339-51 | AXJ.400X.100/.031 |
| R145 | Metal Film Resistor | 330Ω, 1/4W, ±5% | 07-20331-51 | AXJ.400X.100/.031 |
| R146 | Metal Oxide Film Resistor | 3.9KΩ, 3W, ±5% | 07-30392-03 | AXJ.600X.125/.039 |
| R147 | Metal Oxide Film Resistor | 3.9KΩ, 3W, ±5% | 07-30392-03 | AXJ.600X.125/.039 |
| R148 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R149 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R150 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R151 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R152 | Metal Film Resistor | 845Ω, 1W, ±1% | 07-28450-01 | AXJ.600X.125/.039 |
| R153 | Metal Film Resistor | 1.8MΩ, 1/6W, ±5% | 07-20185-50 | AXJ.200X.080/.031 |
| R154 | Metal Film Resistor | 1.2KΩ, 1/6W, ±5% | 07-20122-50 | AXJ.200X.080/.031 |
| R155 | Metal Film Resistor | 4.7Ω, 1/6W, ±5% | 07-20479-50 | AXJ.200X.080/.031 |
| R156 | Metal Film Resistor | 33Ω, 1/6W, 5% | 07-20330-50 | AXJ.200X.080/.031 |
| R157 | Metal Film Resistor | 3K3Ω, 1/6W, 5% | 07-20332-50 | AXJ.200X.080/.031 |
| R158 | Metal Film Resistor | 910Ω, 1/6W, ±5% | 07-20911-50 | AXJ.200X.080/.031 |
| R159 | Metal Film Resistor | 1KΩ, 1W, ±1% | 07-21001-01 | AXJ.600X.125/.039 |
| R160 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R161 | Metal Film Resistor | 4.7Ω, 1/6W, ±5% | 07-20479-50 | AXJ.200X.080/.031 |
| R162 | Metal Film Resistor | 33Ω, 1/6W, 5% | 07-20330-50 | AXJ.200X.080/.031 |
| R163 | Metal Film Resistor | 15Ω, 1/4W, ±5% | 07-20150-51 | AXJ.400X.100/.031 |
| R164 | Metal Film Resistor | 18Ω, 1/4W, ±5% | 07-20180-51 | AXJ.400X.100/.031 |
| R165 | Metal Oxide Film Resistor | 1Ω, 1/2W, ±5% | 07-30109-00 | AXJ.600X.125/.039 |
| R166 | Metal Oxide Film Resistor | 1Ω, 1/2W, ±5% | 07-30109-00 | AXJ.600X.125/.039 |
| R167 | Metal Film Resistor | 22Ω, 1/6W, ±5% | 07-20220-50 | AXJ.200X.080/.031 |
| R168 | Metal Oxide Film Resistor | 1Ω, 1/2W, ±5% | 07-30109-00 | AXJ.600X.125/.039 |
| R169 | Metal Oxide Film Resistor | 1Ω, 1/2W, ±5% | 07-30109-00 | AXJ.600X.125/.039 |
| R170 | Metal Film Resistor | 18Ω, 1/4W, ±5% | 07-20180-51 | AXJ.400X.100/.031 |
| R171 | Metal Film Resistor | 15Ω, 1/4W, ±5% | 07-20150-51 | AXJ.400X.100/.031 |
| R172 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R173 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R174 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R175 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R176 | Metal Film Resistor | 10KΩ, 1/4W, ±5% | 07-20103-51 | AXJ.400X.100/.031 |
| R177 | Metal Oxide Film Resistor | 10Ω, 2W, ±5% | 07-30100-12 | AXJ.600X.125/.039 |
| R178 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R179 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R180 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R181 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R182 | Cement Resistor | 0.22Ω, 5W, ±5% | 07-40228-15 | RAD/RES/.520X.200/LS.400/.039 |
| R183 | Metal Film Resistor | 47KΩ, 1/6W, 5% | 07-20473-50 | AXJ.200X.080/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|------------------|---------------------|-------------------|-------------|-------------------------------|
| R184 | Metal Film Resistor | 470Ω, 1/6W, 5% | 07-20471-50 | AXJ.200X.080/.031 |
| R185 | Metal Film Resistor | 47KΩ, 1/6W, 5% | 07-20473-50 | AXJ.200X.080/.031 |
| R186 | Metal Film Resistor | 22KΩ, 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R187 | Metal Film Resistor | 2KΩ, 1/6W, 5% | 07-20222-50 | AXJ.200X.080/.031 |
| R188 | Metal Film Resistor | 33KΩ, 1/6W, ±5% | 07-20333-50 | AXJ.200X.080/.031 |
| R189 | Metal Film Resistor | 22KΩ, 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R190 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R191 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R192 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R193 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R194 | Fusible Resistor | 10Ω, 1W, ±5% | 07-50100-01 | AXJ.600X.125/.039 |
| R195 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R196 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R197 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R198 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R199 | Metal Film Resistor | 220Ω, 1/6W, 5% | 07-20221-50 | AXJ.200X.080/.031 |
| R1A1 | Metal Film Resistor | 24.3KΩ, 1/6W, ±1% | 07-22432-50 | AXJ.200X.080/.031 |
| R1A2 | Metal Film Resistor | 7.32KΩ, 1/6W, ±1% | 07-27321-50 | AXJ.200X.080/.031 |
| R1A3 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R1A4 | Fusible Resistor | 10Ω, 1W, ±5% | 07-50100-01 | AXJ.600X.125/.039 |
| R1A5 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R1A6 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R1A8 | Metal Film Resistor | 220Ω, 1/6W, 5% | 07-20221-50 | AXJ.200X.080/.031 |
| R1A9 | Metal Film Resistor | 7.32KΩ, 1/6W, ±1% | 07-27321-50 | AXJ.200X.080/.031 |
| R1E1 | Metal Film Resistor | 24.3KΩ, 1/6W, ±1% | 07-22432-50 | AXJ.200X.080/.031 |
| R1E2 | Metal Film Resistor | 1megΩ, 1/6W, 5% | 07-20105-50 | AXJ.200X.080/.031 |
| R1E3 | Cement Resistor | 0.05Ω, 3W, ±5% | 07-40507-03 | RAD/RES/.520X.200/LS.400/.039 |
| R1E4 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R1E5 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R1E6 | Metal Film Resistor | 9.1KΩ, 1/6W, ±5% | 07-20912-50 | AXJ.200X.080/.031 |
| R1E7 | Metal Film Resistor | 560KΩ, 1/6W, ±5% | 07-20564-50 | AXJ.200X.080/.031 |
| R1E8 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R1E9 | Metal Film Resistor | 330KΩ, 1/6W, ±5% | 07-20334-50 | AXJ.200X.080/.031 |
| R1F1 | Metal Film Resistor | 22KΩ, 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R1F2 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R1F3 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R1F4 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R1F5 | Metal Film Resistor | 270KΩ, 1/6W, ±1% | 07-22703-50 | AXJ.200X.080/.031 |
| R1F6 | Metal Film Resistor | 4.7MΩ, 1/6W, ±5% | 07-20475-50 | AXJ.200X.080/.031 |
| R1F7 | Metal Film Resistor | 470KΩ, 1/6W, ±1% | 07-24703-50 | AXJ.200X.080/.031 |
| R1F8 | Metal Film Resistor | 390KΩ, 1/6W, ±1% | 07-23903-50 | AXJ.200X.080/.031 |
| R1F9 | Metal Film Resistor | 110KΩ, 1/6W, ±1% | 07-21103-50 | AXJ.200X.080/.031 |
| R1G1 | Metal Film Resistor | 100KΩ, 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R1G2 | Metal Film Resistor | 220KΩ, 1/6W, 5% | 07-20224-50 | AXJ.200X.080/.031 |
| R1G3 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R1G4 | Metal Film Resistor | 1megΩ, 1/6W, 5% | 07-20105-50 | AXJ.200X.080/.031 |
| R1G5 | Metal Film Resistor | 1megΩ, 1/6W, 5% | 07-20105-50 | AXJ.200X.080/.031 |
| R1H1 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R1H2 | Metal Film Resistor | 63.4Ω, 1/4W, ±1% | 07-26349-51 | AXJ.400X.100/.031 |
| R1H3 | Metal Film Resistor | 1KΩ, 1W, ±1% | 07-21001-01 | AXJ.600X.125/.039 |
| R1N1 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R1N7 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R1N8 | Metal Film Resistor | 1KΩ, 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| CAPACITOR | | | | |
| C101 | Polyester capacitor | 100nF, ±5%, 250V | 25-10422-01 | RAD/CAP/.300X.150/LS.200/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|-----------------|----------------------------|------------------------|--------------|-------------------------------|
| C102 | Polyester capacitor | 100nF, ±5%, 250V | 25-10422-01 | RAD/CAP/.300X.150/LS.200/.031 |
| C103 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C104 | Ceramic Capacitor | 33pF, ±5%, 1KV | 05-33013-02 | CPAX/.200X.100/.031 |
| C105 | ALU Electrolytic Capacitor | 10uF/100V, ±20%, 105°C | 06-10012-01 | CPCYL1/D.300/LS.200/.031 |
| C107 | ALU Electrolytic Capacitor | 10uF/100V, ±20%, 105°C | 06-10012-01 | CPCYL1/D.300/LS.200/.031 |
| C108 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C109 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C110 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C111 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C112 | Ceramic Capacitor | 47pF, ±5%, 1KV | 05-47013-01 | CPAX/.200X.100/.031 |
| C113 | Ceramic Capacitor | 120pF, ±5%, 1KV | 05-12113-00 | CPAX/.200X.100/.031 |
| C114 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C115 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C116 | Ceramic Capacitor | 33pF, ±5%, 1KV | 05-33013-02 | CPAX/.200X.100/.031 |
| C118 | ALU Electrolytic Capacitor | 10uF/100V, ±20%, 105°C | 06-10012-01 | CPCYL1/D.300/LS.200/.031 |
| C119 | ALU Electrolytic Capacitor | 10uF/100V, ±20%, 105°C | 06-10012-01 | CPCYL1/D.300/LS.200/.031 |
| C120 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C121 | Ceramic Capacitor | 22pF, ±5%, 1KV | 05-22013-02 | CPAX/.200X.100/.031 |
| C122 | Ceramic Capacitor | 22pF, ±5%, 1KV | 05-22013-02 | CPAX/.200X.100/.031 |
| C123 | Ceramic Capacitor | 22pF, ±5%, 1KV | 05-22013-02 | CPAX/.200X.100/.031 |
| C124 | Ceramic Capacitor | 430pF, ±5%, 1KV | 05-43113-01 | CPAX/.200X.100/.031 |
| C125 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C126 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C127 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C128 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C129 | ALU Electrolytic Capacitor | 47uF/25V, ±20%, 105°C | 06-47021-01 | CPCYL1/D.300/LS.200/.031 |
| C130 | ALU Electrolytic Capacitor | 47uF/25V, ±20%, 105°C | 06-47021-01 | CPCYL1/D.300/LS.200/.031 |
| C131 | Polyester capacitor | 100nF, ±5%, 100V | 25-10412-04 | RAD/CAP/.300X.150/LS.200/.031 |
| C132 | Ceramic Capacitor | 220pF, ±10%, 1KV | 05-22113-01 | CPAX/.200X.100/.031 |
| C134 | Ceramic Capacitor | 470pF, ±5%, 1KV | 05-47113-02 | CPAX/.200X.100/.031 |
| C135 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C136 | Ceramic Capacitor | 470pF, ±5%, 1KV | 05-47113-02 | CPAX/.200X.100/.031 |
| C138 | Ceramic Capacitor | 220pF, ±10%, 1KV | 05-22113-01 | CPAX/.200X.100/.031 |
| C139 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C141 | ALU Electrolytic Capacitor | 4.7uF/50V, ±20%, 105°C | 06-47951-05 | CPCYL1/D.200/LS.200/.031 |
| C142 | Polyester capacitor | 100nF, ±5%, 100V | 25-10412-04 | RAD/CAP/.300X.150/LS.200/.031 |
| C143 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C144 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C145 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C146 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C147 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C148 | Polyester capacitor | 470nF, ±5%, 63V | 25-47461-00 | RAD/.300X.150/LS.200/.031 |
| C149 | Polyester capacitor | 470nF, ±5%, 63V | 25-47461-00 | RAD/.300X.150/LS.200/.031 |
| C150 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C151 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C152 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C154 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C155 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C157 | ALU Electrolytic Capacitor | 47uF/100V, ±20%, 105°C | 06-47012-01 | CPCYL1/D.300/LS.200/.031 |
| C158 | ALU Electrolytic Capacitor | 47uF/100V, ±20%, 105°C | 06-47012-01 | CPCYL1/D.300/LS.200/.031 |
| INDUCTOR | | | | |
| L101 | INDUCTOR | 10uH | 08-02100-01 | |
| L102 | INDUCTOR | 10uH | 08-02100-01 | |
| L103 | INDUCTOR | 100uH, EMC421LTB-121NS | A08-01101-01 | |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|-------------------|--------------------|--------------------------|-------------|-------------------------------|
| POT | | | | |
| RV102 | SEMI POT | 500Ω, vertical type | 09-02501-02 | VRES17 |
| RV103 | SEMI POT | 10KΩ, vertical type | 09-02103-02 | VRES17 |
| RV104 | SEMI POT | 100Ω, vertical type | 09-02101-01 | VRES17 |
| CONNECTOR | | | | |
| P101B | HOUSING | 11PIN2.54-C | 13-22511-01 | BLKCON.100/VH/TM1SQS/W.300/11 |
| P102B | HOUSING | 5PIN2.54-C | 13-22505-00 | BLKCON.100/VH/TM1SQS/W.300/5 |
| P103B | HOUSING | 5PIN3.96-C | 13-23905-00 | BLKCON.156/VH/TM1SQB/W.355/5 |
| P104A | CONNECTOR | 5PIN2.54-C | 13-12505-00 | BLKCON.100/VH/TM1SQ/W.200/5 |
| P106B | CONNECTOR | 4PIN2.54-C | 13-12504-00 | |
| P/N | 01-27512-00 | PCB2 BOARD (MAIN) | | |
| DIODE | | | | |
| D201 | RECTIFY DIODES | 1N4007 | 33-24007-00 | DAX/.400X.100/.039 |
| D202 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D203 | Zener Diode | 24V, 1/2W | 33-12400-00 | DAX/.300X.080/.031 |
| D204 | Zener Diode | 24V, 1/2W | 33-12400-00 | DAX/.300X.080/.031 |
| D205 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D206 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D207 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D208 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D209 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D210 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D211 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D212 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D213 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D214 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D215 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D216 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D217 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D218 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D219 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D220 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| TH201 | Thyristor | BT151-500R | 33-60116-00 | TO-220 |
| TH202 | Thyristor | BT151-500R | 33-60116-00 | TO-220 |
| BRIDGE | | | | |
| BR201 | Rectifier Bridge | KBU8D | 33-30822-03 | BRIDGE/1.010X.290/.063 |
| BR202 | Rectifier Bridge | KBU8D | 33-30822-03 | BRIDGE/1.010X.290/.063 |
| BR203 | BRIDGE | DB104G | 33-30142-00 | BRIDGE/.400X.500/.047 |
| BR204 | BRIDGE | DB104G | 33-30142-00 | BRIDGE/.400X.500/.047 |
| TRANSISTOR | | | | |
| Q201 | Transistor | 2SC1815-GR | 31-01815-00 | TO92/100/ECB |
| Q202 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| Q203 | Transistor | MPSA92 | 31-00092-00 | TO92/100/EBC |
| Q204 | Transistor | MPSA42 | 31-00042-00 | TO92/100/ECB |
| Q205 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| Q206 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| Q207 | Transistor | 2SC1815-GR | 31-01815-00 | TO92/100/ECB |
| IC | | | | |
| IC201 | RAGULATOR | NJM317F | 03-00317-04 | TO220AB |
| IC202 | RAGULATOR | LM337T | 03-00337-00 | TO220AB |
| IC203 | RAGULATOR | NJM317F | 03-00317-04 | TO220AB |
| IC204 | RAGULATOR | LM337T | 03-00337-00 | TO220AB |
| IC205 | AMP Protector IC | HS1237 | 01-01237-11 | SIP.100/8/W.200/L.825 |
| IC206 | Dual OPAMP | TL082CP | 03-00082-00 | DIP8 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|-----------------|---------------------------|---------------------------------|-------------|-------------------|
| RESISTOR | | | | |
| R201 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R202 | Metal Film Resistor | 22K Ω , 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R203 | Metal Film Resistor | 22K Ω , 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R204 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R205 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R206 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R207 | Metal Film Resistor | 100 Ω , 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R208 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R209 | Metal Film Resistor | 100 Ω , 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R210 | Metal Film Resistor | 220K Ω , 1/6W, 5% | 07-20224-50 | AXJ.200X.080/.031 |
| R211 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 1% | 07-24701-50 | AXJ.200X.080/.031 |
| R212 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 1% | 07-24701-50 | AXJ.200X.080/.031 |
| R213 | Metal Film Resistor | 240 Ω , 1/6W, \pm 1% | 07-22400-50 | AXJ.200X.080/.031 |
| R214 | Metal Film Resistor | 240 Ω , 1/6W, \pm 1% | 07-22400-50 | AXJ.200X.080/.031 |
| R215 | Metal Film Resistor | 2.67K Ω , 1/6W, \pm 1% | 07-22671-50 | AXJ.200X.080/.031 |
| R216 | Metal Film Resistor | 2.67K Ω , 1/6W, \pm 1% | 07-22671-50 | AXJ.200X.080/.031 |
| R217 | Metal Film Resistor | 240 Ω , 1/6W, \pm 1% | 07-22400-50 | AXJ.200X.080/.031 |
| R218 | Metal Film Resistor | 240 Ω , 1/6W, \pm 1% | 07-22400-50 | AXJ.200X.080/.031 |
| R219 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 5% | 07-20472-50 | AXJ.200X.080/.031 |
| R221 | Metal Film Resistor | 56K Ω , 1/6W, \pm 5% | 07-20563-50 | AXJ.200X.080/.031 |
| R222 | Metal Film Resistor | 56K Ω , 1/6W, \pm 5% | 07-20563-50 | AXJ.200X.080/.031 |
| R223 | Metal Film Resistor | 24.9K Ω , 1/6W, \pm 1% | 07-22492-50 | AXJ.200X.080/.031 |
| R224 | Metal Film Resistor | 24.9K Ω , 1/6W, \pm 1% | 07-22492-50 | AXJ.200X.080/.031 |
| R225 | Metal Film Resistor | 1K Ω , 1/6W, 1% | 07-21001-50 | AXJ.200X.080/.031 |
| R226 | Metal Film Resistor | 1K Ω , 1/6W, 1% | 07-21001-50 | AXJ.200X.080/.031 |
| R227 | Metal Film Resistor | 1K Ω , 1/6W, 1% | 07-21001-50 | AXJ.200X.080/.031 |
| R228 | Metal Film Resistor | 1K Ω , 1/6W, 1% | 07-21001-50 | AXJ.200X.080/.031 |
| R229 | Metal Film Resistor | 2K2 Ω , 1/6W, 5% | 07-20222-50 | AXJ.200X.080/.031 |
| R230 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R231 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 5% | 07-20472-50 | AXJ.200X.080/.031 |
| R232 | Metal Film Resistor | 22K Ω , 1/6W, 5% | 07-20223-50 | AXJ.200X.080/.031 |
| R233 | Metal Film Resistor | 33K Ω , 1/6W, \pm 5% | 07-20333-50 | AXJ.200X.080/.031 |
| R234 | Metal Film Resistor | 100 Ω , 1/6W, 5% | 07-20101-50 | AXJ.200X.080/.031 |
| R235 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AXJ.200X.080/.031 |
| R236 | Metal Oxide Film Resistor | 3.3 Ω , 1W, \pm 5% | 07-30339-04 | AXJ.600X.125/.039 |
| R237 | Metal Oxide Film Resistor | 3.3 Ω , 1W, \pm 5% | 07-30339-04 | AXJ.600X.125/.039 |
| R238 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R239 | Metal Oxide Film Resistor | 180 Ω , 2W, \pm 5% | 07-30181-02 | AXJ.600X.125/.039 |
| R240 | Metal Film Resistor | 820 Ω , 1/6W, \pm 5% | 07-20821-50 | AXJ.200X.080/.031 |
| R241 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 5% | 07-20472-50 | AXJ.200X.080/.031 |
| R242 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R243 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R244 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R245 | Metal Oxide Film Resistor | 2.2K Ω , 2W, 5% | 07-30222-12 | AXJ.800X.125/.039 |
| R247 | Metal Film Resistor | 1meg Ω , 1/6W, 5% | 07-20105-50 | AXJ.200X.080/.031 |
| R248 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R249 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R250 | Metal Film Resistor | 22 Ω , 1/6W, \pm 5% | 07-20220-50 | AXJ.200X.080/.031 |
| R251 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R252 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R253 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |
| R254 | Metal Film Resistor | 330K Ω , 1/6W, \pm 5% | 07-20334-50 | AXJ.200X.080/.031 |
| R255 | Metal Film Resistor | 10K Ω , 1/6W, 5% | 07-20103-50 | AXJ.200X.080/.031 |
| R257 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AXJ.200X.080/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|------------------|---|--|-------------|-------------------------------|
| R258 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AX/.200X.080/.031 |
| R259 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AX/.200X.080/.031 |
| R260 | Metal Film Resistor | 330K Ω , 1/6W, \pm 5% | 07-20334-50 | AX/.200X.080/.031 |
| R263 | Metal Film Resistor | 220 Ω , 1/6W, 5% | 07-20221-50 | AX/.200X.080/.031 |
| R264 | Metal Film Resistor | 220 Ω , 1/6W, 5% | 07-20221-50 | AX/.200X.080/.031 |
| R265 | Metal Film Resistor | 1meg Ω , 1/6W, 5% | 07-20105-50 | AX/.200X.080/.031 |
| R266 | Metal Film Resistor | 1meg Ω , 1/6W, 5% | 07-20105-50 | AX/.200X.080/.031 |
| R267 | Metal Film Resistor | 47K Ω , 1/6W, 5% | 07-20473-50 | AX/.200X.080/.031 |
| CAPACITOR | | | | |
| C201 | Polyester capacitor | 10nF, \pm 5%, 250V | 25-10322-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C202 | Polyester capacitor | 10nF, \pm 5%, 250V | 25-10322-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C203 | ALU Electrolytic Capacitor | 10uF/100V, \pm 20%, 105 $^{\circ}$ C | 06-10012-01 | CPCYL1/D.200/LS.200/.031 |
| C204 | ALU Electrolytic Capacitor | 10uF/100V, \pm 20%, 105 $^{\circ}$ C | 06-10012-01 | CPCYL1/D.200/LS.200/.031 |
| C205 | Polyester capacitor | 100nF, \pm 5%, 100V | 25-10412-04 | RAD/CAP/.300X.150/LS.200/.031 |
| C206 | Polyester capacitor | 100nF, \pm 5%, 100V | 25-10412-04 | RAD/CAP/.300X.150/LS.200/.031 |
| C207 | ALU Electrolytic Capacitor | 22000uF, \pm 20%, 100V, 105 $^{\circ}$ C | 06-22312-01 | CPCYL1/D2.165/LS.965/.079 |
| C208 | ALU Electrolytic Capacitor | 22000uF, \pm 20%, 100V, 105 $^{\circ}$ C | 06-22312-01 | CPCYL1/D2.165/LS.965/.079 |
| C209 | Polyester capacitor | 10nF, \pm 5%, 250V | 25-10322-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C210 | Polyester capacitor | 10nF, \pm 5%, 250V | 25-10322-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C211 | ALU Electrolytic Capacitor | 1uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10951-03 | CPCYL1/D.200/LS.200/.031 |
| C212 | ALU Electrolytic Capacitor | 2200uF, 63V, \pm 20%, 105 $^{\circ}$ C | 06-22261-00 | CPCYL1/D.900/LS.400/.062 |
| C213 | ALU Electrolytic Capacitor | 2200uF, 63V, \pm 20%, 105 $^{\circ}$ C | 06-22261-00 | CPCYL1/D.900/LS.400/.062 |
| C214 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C215 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C216 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C217 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C218 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C219 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C220 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C221 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C222 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C223 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C224 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C225 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C226 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C227 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C228 | ALU Electrolytic Capacitor | 1000uF, \pm 20%, 160V, 105 $^{\circ}$ C | 06-10212-04 | CPCYL1/D.900/LS.400/.062 |
| C229 | ALU Electrolytic Capacitor | 1000uF, \pm 20%, 160V, 105 $^{\circ}$ C | 06-10212-04 | CPCYL1/D.900/LS.400/.062 |
| C230 | Polyester capacitor | 100nF, \pm 5%, 250V | 25-10422-01 | RAD/.300X.150/LS.200/.034 |
| C231 | Polyester capacitor | 100nF, \pm 5%, 250V | 25-10422-01 | RAD/.300X.150/LS.200/.034 |
| C232 | ALU Electrolytic Capacitor | 100uF/16V, \pm 20%, 105 $^{\circ}$ C | 06-10111-07 | CPCYL1/D.200/LS.200/.031 |
| C233 | ALU Electrolytic Capacitor | 330uF, \pm 20%, 16V, 105 $^{\circ}$ C | 06-33111-02 | CPCYL1/D.300/LS.200/.031 |
| C234 | Polyester capacitor | 220nF, \pm 5%, 63V | 25-22461-02 | RAD/CAP/.300X.250/LS.200/.031 |
| C235 | ALU Electrolytic Capacitor | 10uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C236 | Bi-polarized Alu Electrolytic Capacitor | 10uF, \pm 20%, 50V, 105 $^{\circ}$ C | 06-10051-11 | CPCYL1/D.200/LS.200/.031 |
| C237 | Polyester capacitor | 10nF, \pm 5%, 63V | 25-10361-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C238 | Polyester capacitor | 10nF, \pm 5%, 63V | 25-10361-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C241 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|------------------|----------------------------|---|--------------|-------------------------------|
| C242 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C243 | Ceramic Disc Capacitor | 10pF, ±5%, 1KV | 05-10013-01 | CPAX/.200X.100/.031 |
| C244 | ALU Electrolytic Capacitor | 100uF, 6.3V, ±20%, 105°C | 06-10160-07 | CPCYL1/D.200/LS.200/.031 |
| C245 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C246 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C247 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C248 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C249 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C250 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C251 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C252 | Ceramic Disc Capacitor | 10pF, ±5%, 1KV | 05-10013-01 | CPAX/.200X.100/.031 |
| C253 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C254 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C255 | ALU Electrolytic Capacitor | 10uF/50V, ±20%, 105°C | 06-10051-01 | CPCYL1/D.200/LS.200/.031 |
| C256 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C257 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C258 | Ceramic Capacitor | 100pF, ±5%, 1KV | 05-10113-04 | CPAX/.200X.100/.031 |
| C259 | Ceramic Capacitor | 100pF, ±5%, 1KV | 05-10113-04 | CPAX/.200X.100/.031 |
| C260 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C261 | ALU Electrolytic Capacitor | 100uF, 6.3V, ±20%, 105°C | 06-10160-07 | CPCYL1/D.200/LS.200/.031 |
| JUMPER | | | | |
| R2G1 | Link | L=5mm | 21-06500-00 | AX/.200X.080/.031 |
| INDUCTOR | | | | |
| L201 | Inductor | 0.7uH, horizontal type | 08-01079-01 | RAD/.850X.450/LS.700/.059 |
| L202 | Inductor | 0.7uH, horizontal type | 08-01079-01 | RAD/.850X.450/LS.700/.059 |
| RELAY | | | | |
| RL201 | RELAYS | JQX-115F/036/1HS1 | A12-03101-04 | RELAY_1 |
| RL202 | RELAYS | JQX-115F/036/1HS1 | A12-03101-04 | RELAY_1 |
| POT | | | | |
| RV201 | Stereo POT | 1kΩB, RV142B-20-25A-B1K | 09-02102-00 | VRES20 |
| CONNECTOR | | | | |
| J201 | HEADPHONE SOCKET | CKX-3.5-20A / LJE0366DS-5 | 17-07001-07 | |
| RCA201 | RCA | 2RCA | 17-01002-02 | RCA2A |
| P201B | HOUSING | 5PIN3.96-C | 13-23905-00 | BLKCON.156/VH/TM1SQB/W.355/5 |
| P202B | HOUSING | 5PIN3.96-C | 13-23905-00 | BLKCON.156/VH/TM1SQB/W.355/5 |
| P203B | HOUSING | 12PIN2.54-C | 13-22512-03 | BLKCON.100/VH/TM1SQS/W.300/12 |
| P206B | HOUSING | 11PIN2.54-C | 13-22511-01 | BLKCON.100/VH/TM1SQS/W.300/11 |
| P207B | HOUSING | 11PIN2.54-C | 13-22511-01 | BLKCON.100/VH/TM1SQS/W.300/11 |
| P204A | WIRE | UL1015 or UL1569#18AWG, yellow/black/black/blue/red, One terminal:SDN3.96 5pin, another terminal: VH3.96 5pin, L=130mm | 14-27605-00 | |
| P205A | WIRE | UL1015 or UL1569#18AWG, yellow/black/black/blue/red, One terminal:SDN3.96 5pin, another terminal: VH3.96 5pin, L=190mm | 14-27605-01 | |
| P208A | WIRE | UL2547#24AWG*3C, L=220mm, UL2547#26AWG*2C, L=300mm, One terminal:SCN2.5 8pin, another terminal: two XHB2.54 5pin | 14-27608-00 | BLKCON.100/VH/TM1SQW.200/8 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|---|-------------------------------------|--|--------------|-------------------------------|
| to P901B | WIRE | UL1015#16AWG, L=120mm(black wire), L=100mm(orange/white/blue/ red wire) | 14-27606-00 | |
| G201 | Ground Solder Tap | GND-8 | 32-28042-00 | |
| SWITCH | | | | |
| S201 | SWITCH | SSSU122NA1 | J11-05202-10 | SLIDESWITCHES/SSSU141500 |
| S202 | SWITCH | SSSU122NA1 | J11-05202-10 | SLIDESWITCHES/SSSU141500 |
| S203 | SWITCH | SSSU122NA1 | J11-05202-10 | SLIDESWITCHES/SSSU141500 |
| S204 | SWITCH | SSSU122NA1 | J11-05202-10 | SLIDESWITCHES/SSSU141500 |
| AH P/N : 01-27514-10 C P/N : 01-27514-20 PCB3 BOARD (STANDBY) | | | | |
| DIODE | | | | |
| D401 | Super Fast Recovery Rectifier Diode | FR107 | 33-20107-00 | DAX/.400X.100/.039 |
| D402 | Schottky Barrier Rectifier | 1N5822 | 33-25822-00 | DAX/.300X.200/.059 |
| D403 | Zener Diode | 4.7V, 1/2W, ±2% | 33-14709-05 | DAX/.300X.080/.031 |
| D404 | Switch Diode | 1N5819 | 33-25819-00 | DAX/.400X.100/.039 |
| D405 | RECTIFY DIODES | 1N4007 | 33-24007-00 | DAX/.400X.100/.039 |
| D406 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D407 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D408 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D409 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| BRIDGE | | | | |
| BR401 | Rectifier Bridge | DB105 | 33-30162-00 | DIP4 |
| IC | | | | |
| IC401 | Power controller IC | TNY274PN | 03-00274-00 | DIP-8C |
| IC402 | RAGULATOR | L7805CT | 03-07805-00 | TO220AB/123 |
| PC401 | Photocoupler | PC817A | 03-00817-01 | DIP4 |
| RESISTOR | | | | |
| R401 | Metal Oxide Film Resistor | 68KΩ, 1W, ±5% | 07-30683-21 | AX/.600X.125/.039 |
| R402 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AX/.200X.080/.031 |
| R403 | Metal Film Resistor | 510Ω, 1/6W, 5% | 07-20511-50 | AX/.200X.080/.031 |
| R404 | Metal Film Resistor | 150Ω, 1/6W, ±5% | 07-20151-50 | AX/.200X.080/.031 |
| CAPACITOR | | | | |
| C401 | Interfernece Suppression Cap | 0.1uF/275V, ±10% | A25-10422-07 | RAD/CAP/.400X.200/LS.400/.031 |
| C402 | ALU Electrolytic Capacitor | 10uF,400V,±20%, 105°C | 06-10042-00 | CPCYL1/D.400/LS.200/.031 |
| C403 | X Capacitor | 10nF/275V, ±10% | A25-10322-05 | RAD/CAP/.400X.200/LS.400/.031 |
| C404 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C405 | Y Capacitor | 1nF, Y Type | A05-10242-00 | RAD/CAP/.400X.200/LS.400/.031 |
| C406 | ALU Electrolytic Capacitor | 220uF, 16V, ±20%, 105°C | 06-22111-21 | CPCYL1/D.300/LS.200/.031 |
| C407 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C408 | ALU Electrolytic Capacitor | 220uF, 16V, ±20%, 105°C | 06-22111-21 | CPCYL1/D.300/LS.200/.031 |
| C409 | Polyester capacitor | 100nF, ±5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C410 | ALU Electrolytic Capacitor | 220uF, 10V, ±20%, 105°C | 06-22111-20 | CPCYL1/D.300/LS.200/.031 |
| JUMPER | | | | |
| W401(AH) | Link(φ1.0) | 7.5mm | 21-10750-00 | 7.5mm |
| W402(AH) | Link(φ1.0) | 7.5mm | 21-10750-00 | 7.5mm |
| W403(C) | Link(φ1.0) | 7.5mm | 21-10750-00 | 7.5mm |
| W404 | Link(φ1.0) | 10mm | 21-10101-00 | 10mm |
| W405 | Link(φ1.0) | 10mm | 21-10101-00 | 10mm |
| INDUCTOR | | | | |
| L401 | INDUCTOR | 10uH | 19-35980-00 | AX/.400X.100/.031 |
| TRANSFORMER | | | | |
| TR402 | Transformer | EE16 9V 5W | A18-37516-00 | TRANS_2 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|--|--|---|--------------|------------------------------|
| RELAY | | | | |
| RL401 | RELAYS | DH1U5VDC TV-8 DH5D1-O | A12-02101-01 | |
| FUSE | | | | |
| F401 | FUSE | T1AL/250V | A20-12102-00 | |
| FUSE HOLDER | | | | |
| F401 | FUSE HOLDER | LS-PTF-78 (CQ-200C) | A20-20000-06 | RAD/.1000X.400/LS.850/.066 |
| CONNECTOR | | | | |
| J401 | JACK | HS4-CI9120-B009V1-M032 | 32-26304-00 | |
| J402 | JACK | KY187 | 32-24804-00 | |
| P402B | HOUSING | 6PIN2.54-C | 13-22506-00 | BLKCON.100/VH/TM1SQS/W.300/6 |
| P403B | HOUSING | 2PIN3.96-C | 13-23902-00 | BLKCON.156/VH/TM1SQB/W.355/2 |
| P404B | HOUSING | 4PIN7.92-C | 13-23907-01 | BLKCON.156/VH/TM1SQS/W.355/7 |
| P/N : 01-27513-00 PCB4 BOARD (DISPLAY) | | | | |
| DIODE | | | | |
| D901 | LED (three color) | φ5, Blue/Red/Amber Three color BL-BUBJFB52C4V-1 | 33-50565-02 | |
| D902 | LED BLUE | φ3, BLUE, BL-BB52V1 | 33-50360-06 | LED/D.225/LS.100/.039 |
| D903 | LED BLUE | φ3, BLUE, BL-BB52V1 | 33-50360-06 | LED/D.225/LS.100/.039 |
| D907 | Zener Diode | 4.7V, 1/2W | 33-14709-00 | DAX/.300X.080/.031 |
| D908 | Zener Diode | 4.7V, 1/2W | 33-14709-00 | DAX/.300X.080/.031 |
| D909 | RECTIFY DIODES | 1N4007 | 33-24007-00 | DAX/.400X.100/.039 |
| D910 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D911 | Zener Diode | 3.3V, 1/2W | 33-13309-00 | DAX/.300X.080/.031 |
| D912 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D913 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| D914 | Switch Diode | 1N4148 | 33-44148-00 | DAX/.300X.080/.031 |
| TRANSISTOR | | | | |
| Q901 | Digital Transistor | DTA114ESA | 31-00114-03 | TO-92 |
| Q902 | Digital Transistor | DTA114ESA | 31-00114-03 | TO-92 |
| Q903 | Digital Transistor | DTA114ESA | 31-00114-03 | TO-92 |
| Q904 | Transistor | 2SC1815-GR | 31-01815-00 | TO92/100/ECB |
| Q905 | Digital Transistor | KRC102M-AT/P | 31-00102-00 | TO-92 |
| Q906 | Digital Transistor | KRC102M-AT/P | 31-00102-00 | TO-92 |
| Q907 | Digital Transistor | KRC102M-AT/P | 31-00102-00 | TO-92 |
| Q908 | Digital Transistor | KRC102M-AT/P | 31-00102-00 | TO-92 |
| Q909 | Transistor | 2SD667-D | 31-00667-01 | TO-92 |
| Q910 | Transistor | 2SA1015-GR | 31-01015-00 | TO92/100/ECB |
| IC | | | | |
| IC901 | 8-Bit Microcontroller with OTP ROM | EM78P153SP/S/J | 03-78153-10 | DIP.100/14/W.300/L.775 |
| IC902 | Quad 2-Input NAND Buffered B Series Gate | CD4011BCN | 03-04011-00 | DIP.100/14/W.300/L.775 |
| RESISTOR | | | | |
| R901 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AX/.200X.080/.031 |
| R902 | Metal Film Resistor | 130Ω, 1/6W, ±5% | 07-20131-50 | AX/.200X.080/.031 |
| R903 | Metal Film Resistor | 130Ω, 1/6W, ±5% | 07-20131-50 | AX/.200X.080/.031 |
| R904 | Metal Film Resistor | 130Ω, 1/6W, ±5% | 07-20131-50 | AX/.200X.080/.031 |
| R905 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AX/.200X.080/.031 |
| R906 | Metal Film Resistor | 750Ω, 1/6W, 1% | 07-27500-50 | AX/.200X.080/.031 |
| R907 | Metal Film Resistor | 150Ω, 1/6W, ±5% | 07-20151-50 | AX/.200X.080/.031 |
| R908 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AX/.200X.080/.031 |
| R910 | Metal Film Resistor | 100Ω, 1/6W, 5% | 07-20101-50 | AX/.200X.080/.031 |
| R913 | Metal Film Resistor | 10KΩ, 1/6W, 5% | 07-20103-50 | AX/.200X.080/.031 |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|---|----------------------------|---|--------------|-------------------------------|
| R914 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AX/.200X.080/.031 |
| R915 | Metal Film Resistor | 4.7K Ω , 1/6W, \pm 5% | 07-20472-50 | AX/.200X.080/.031 |
| R916 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AX/.200X.080/.031 |
| R917 | Metal Film Resistor | 1K Ω , 1/6W, 5% | 07-20102-50 | AX/.200X.080/.031 |
| R918 | Metal Film Resistor | 100K Ω , 1/6W, 5% | 07-20104-50 | AX/.200X.080/.031 |
| R919 | Metal Film Resistor | 33K Ω , 1/6W, \pm 5% | 07-20333-50 | AX/.200X.080/.031 |
| CAPACITOR | | | | |
| C901 | ALU Electrolytic Capacitor | 1uF/50V, \pm 20%, 105 $^{\circ}$ C | 06-10951-03 | CPCYL1/D.200/LS.200/.031 |
| C902 | ALU Electrolytic Capacitor | 1000uF, 10V, \pm 20%, 105 $^{\circ}$ C | 06-10211-05 | CPCYL/D.400/LS.200/.031 |
| C903 | Polyester capacitor | 10nF, \pm 5%, 63V | 25-10361-02 | RAD/CAP/.300X.150/LS.200/.031 |
| C904 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| C905 | Polyester capacitor | 100nF, \pm 5%, 63V | 25-10461-07 | RAD/CAP/.300X.150/LS.200/.031 |
| JUMPER | | | | |
| J901 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J902 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J903 | Link | L=7.5mm | 21-06750-00 | |
| J904 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J905 | Link | L=7.5mm | 21-06750-00 | |
| J906 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J907 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J908 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J909 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J910 | Link | L=12.5mm | 21-06121-01 | AX/.500X.100/.031 |
| J911 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J912 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J913 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J914 | Link | L=10mm | 21-06101-00 | AX/.400X.100/.031 |
| J915 | Link | L=5mm | 21-06500-00 | AX/.200X.080/.031 |
| CONNECTOR | | | | |
| P901A | WIRE | UL2468#24AWG, L=70mm, 6PIN | 14-37506-00 | BLKCON.100/VH/TM1SQ/W.200/6 |
| P902A--P203B | WIRE | UL2651#28AWG, One terminal: XHB2.54 12pin, another terminal: JC2.54 12, L=450mm | 14-27612-00 | BLKCON.100/VH/TM1SQ/W.200/12 |
| G901 | Ground Solder Tap | GND-8 | 32-28042-00 | |
| SWITCH | | | | |
| S901 | Tact Switch | IT-1102A-1160 | 11-04101-05 | |
| P/N 01-27506-00 PCB5 BOARD (HS OPAMP STEREO) | | | | |
| TRANSISTOR | | | | |
| Q601 | FET | 2SK209 | J31-00209-00 | SM/SC59_SDG |
| Q602 | FET | 2SK209 | J31-00209-00 | SM/SC59_SDG |
| Q603 | Transistor | 2SA1312 | J31-01312-00 | SM/SC59_BEC |
| Q604 | Transistor | 2SA1312 | J31-01312-00 | SM/SC59_BEC |
| Q605 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |
| Q606 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |
| Q607 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |
| Q608 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |
| Q609 | Transistor | 2SC2983 | J31-02983-00 | TO126/90/ECB |
| Q610 | Transistor | 2SC2983 | J31-02983-00 | TO126/90/ECB |
| Q611 | Transistor | 2SA1225 | J31-01225-00 | TO126/90/ECB |
| Q612 | Transistor | 2SA1225 | J31-01225-00 | TO126/90/ECB |
| Q613 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |
| Q614 | Transistor | 2SC3324 | J31-03324-00 | SM/SC59_BEC |

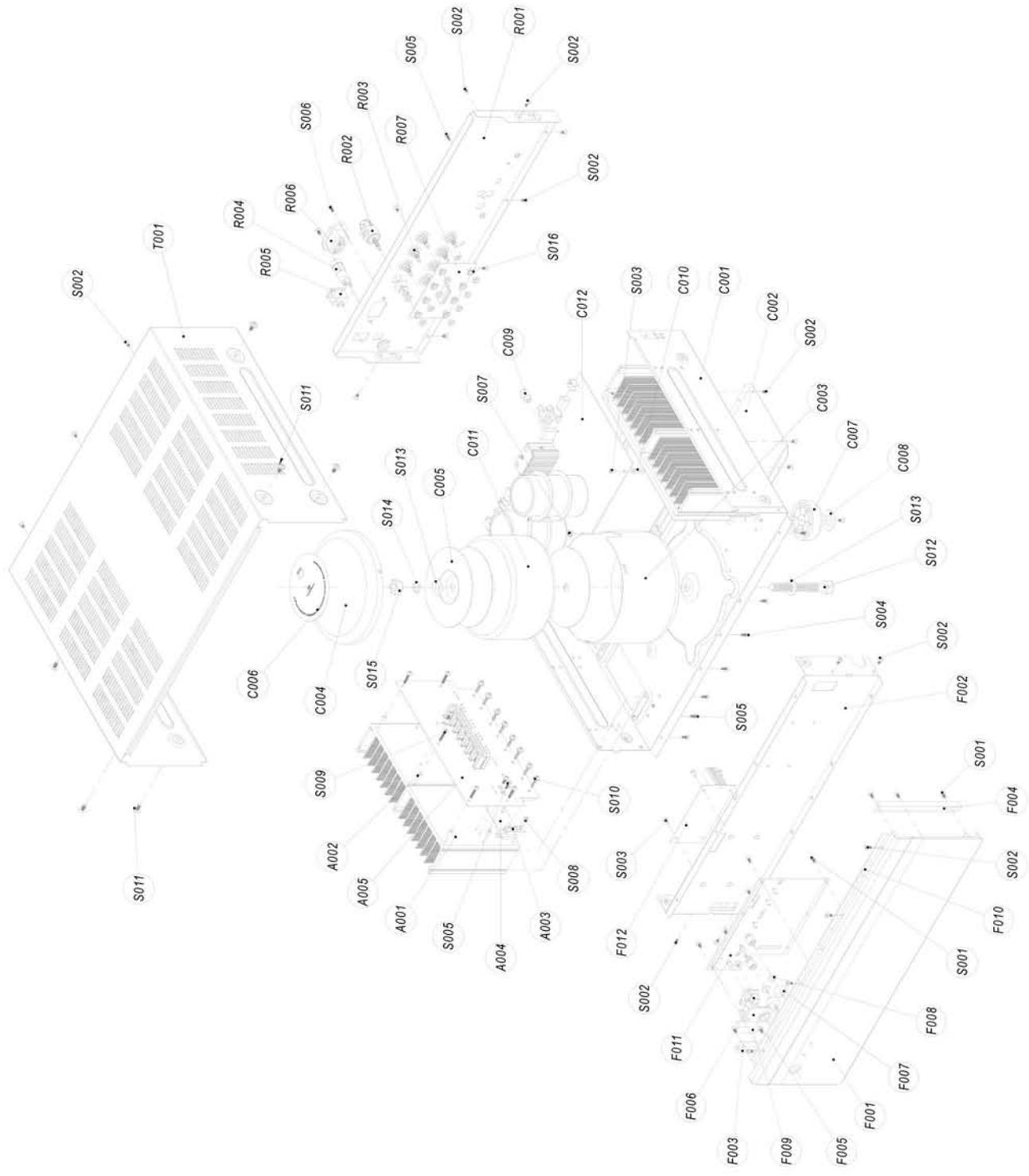
ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|--|------------------------|--------------------------------|--------------|------------------------------|
| RESISTOR | | | | |
| R601 | Chip Resistor | 1meg Ω ,1/8W, \pm 5% | 07-90105-00 | SM/R_0603 |
| R602 | Chip Resistor | 1meg Ω ,1/8W, \pm 5% | 07-90105-00 | SM/R_0603 |
| R603 | Chip Resistor | 220 Ω ,1/8W, \pm 5% | 07-90221-00 | SM/R_0603 |
| R604 | Chip Resistor | 220 Ω ,1/8W, \pm 5% | 07-90221-00 | SM/R_0603 |
| R605 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R606 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R607 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R608 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R609 | Chip Resistor | 1.5K Ω ,1/8W, \pm 5% | 07-90152-00 | SM/R_0603 |
| R610 | Chip Resistor | 1.5K Ω ,1/8W, \pm 5% | 07-90152-00 | SM/R_0603 |
| R611 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R612 | Chip Resistor | 1K Ω ,1/8W, \pm 5% | 07-90102-00 | SM/R_0603 |
| R613 | Chip Resistor | 18K Ω ,1/8W, \pm 5% | 07-90183-00 | SM/R_0603 |
| R614 | Chip Resistor | 18K Ω ,1/8W, \pm 5% | 07-90183-00 | SM/R_0603 |
| R615 | Chip Resistor | 10 Ω ,1/8W, \pm 5% | 07-90100-00 | SM/R_0603 |
| R616 | Chip Resistor | 10 Ω ,1/8W, \pm 5% | 07-90100-00 | SM/R_0603 |
| R617 | Chip Resistor | 10 Ω ,1/8W, \pm 5% | 07-90100-00 | SM/R_0603 |
| R618 | Chip Resistor | 10 Ω ,1/8W, \pm 5% | 07-90100-00 | SM/R_0603 |
| R619 | Chip Resistor | 430 Ω ,1/8W, \pm 1% | 07-94300-00 | SM/R_0603 |
| R620 | Chip Resistor | 430 Ω ,1/8W, \pm 1% | 07-94300-00 | SM/R_0603 |
| R621 | Chip Resistor | 560 Ω ,1/8W, \pm 1% | 07-95600-00 | SM/R_0603 |
| R622 | Chip Resistor | 560 Ω ,1/8W, \pm 1% | 07-95600-00 | SM/R_0603 |
| R625 | Chip Resistor | 150K Ω ,1/10W, \pm 5% | 07-90154-00 | SM/R_0603 |
| R626 | Chip Resistor | 150K Ω ,1/10W, \pm 5% | 07-90154-00 | SM/R_0603 |
| R627 | Chip Resistor | 100K Ω ,1/10W, \pm 5% | 07-90104-00 | SM/R_0603 |
| R628 | Chip Resistor | 100K Ω ,1/10W, \pm 5% | 07-90104-00 | SM/R_0603 |
| CAPACITOR | | | | |
| C601 | Ceramic Chip Capacitor | 22pF,50V,NPO | 26-22051-00 | SM/C_0603 |
| C602 | Ceramic Chip Capacitor | 22pF,50V,NPO | 26-22051-00 | SM/C_0603 |
| C603 | Ceramic Chip Capacitor | 47pF,50V,NPO | 26-47051-00 | SM/C_0603 |
| C604 | Ceramic Chip Capacitor | 47pF,50V,NPO | 26-47051-00 | SM/C_0603 |
| C605 | Ceramic Chip Capacitor | 1nF,50V,NPO | 26-10251-10 | SM/C_0603 |
| C606 | Ceramic Chip Capacitor | 1nF,50V,NPO | 26-10251-10 | SM/C_0603 |
| C607 | Ceramic Chip Capacitor | 100nF,50V,X7R | 26-10451-10 | SM/C_0603 |
| C608 | Ceramic Chip Capacitor | 100nF,50V,X7R | 26-10451-10 | SM/C_0603 |
| C609 | Ceramic Chip Capacitor | 100nF,50V,X7R | 26-10451-10 | SM/C_0603 |
| C610 | Ceramic Chip Capacitor | 100nF,50V,X7R | 26-10451-10 | SM/C_0603 |
| C613 | Ceramic Chip Capacitor | 1uF,25V,Y5V | 26-10521-00 | SM/C_0603 |
| C614 | Ceramic Chip Capacitor | 1uF,25V,Y5V | 26-10521-00 | SM/C_0603 |
| C617 | Ceramic Chip Capacitor | 220pF,50V,NPO | 26-22151-00 | SM/C_0603 |
| C618 | Ceramic Chip Capacitor | 220pF,50V,NPO | 26-22151-00 | SM/C_0603 |
| CONNECTOR | | | | |
| P601A | CONNECTOR | 10PIN2.54 RIGHT ANGLE | 13-12510-01 | BLKCON.100/VH/TM1SQ/W.200/10 |
| P/N 01-37512-00 PCB6 BOARD (BP BOARD) | | | | |
| CONNECTOR | | | | |
| P901B | CONNECTOR | VH 3.96-6A | 13-23906-00 | |
| Assembly Parts | | | | |
| FUSE | | | | |
| | FUSE | T10AL/250V (AH) | A20-12103-00 | |
| | FUSE | T5AL/250V (C) | A20-12502-00 | |
| CONNECTOR | | | | |
| AC INLET to Switch | WIRE | UL1672#16AWG , red, L=100mm | A14-37501-00 | |

ELECTRICAL PARTS LIST

| DESIGNATOR | DESCRIPTION | PART TYPE | PART NUMBER | FOOTPRINT |
|-----------------------|-------------|--|--------------|-----------|
| Switch to Fuse holder | WIRE | UL1672#16AWG , red, L=100mm | A14-37501-00 | |
| AC INLET to J401 | WIRE | UL1672#16AWG,blue, L=460mm | A14-37501-01 | |
| Fuse holder to J402 | WIRE | UL1672#16AWG , red, L=380mm | A14-37501-02 | |
| P206B--P101B(L CH) | WIRE | UL2468#24AWG*5C&6C,T wo terminal: XHB2.54 11pin, L=150mm | 14-27611-00 | |
| P207B--P101B(R CH) | WIRE | UL2468#24AWG*5C&6C,T wo terminal: XHB2.54 11pin, L=200mm | 14-27611-01 | |

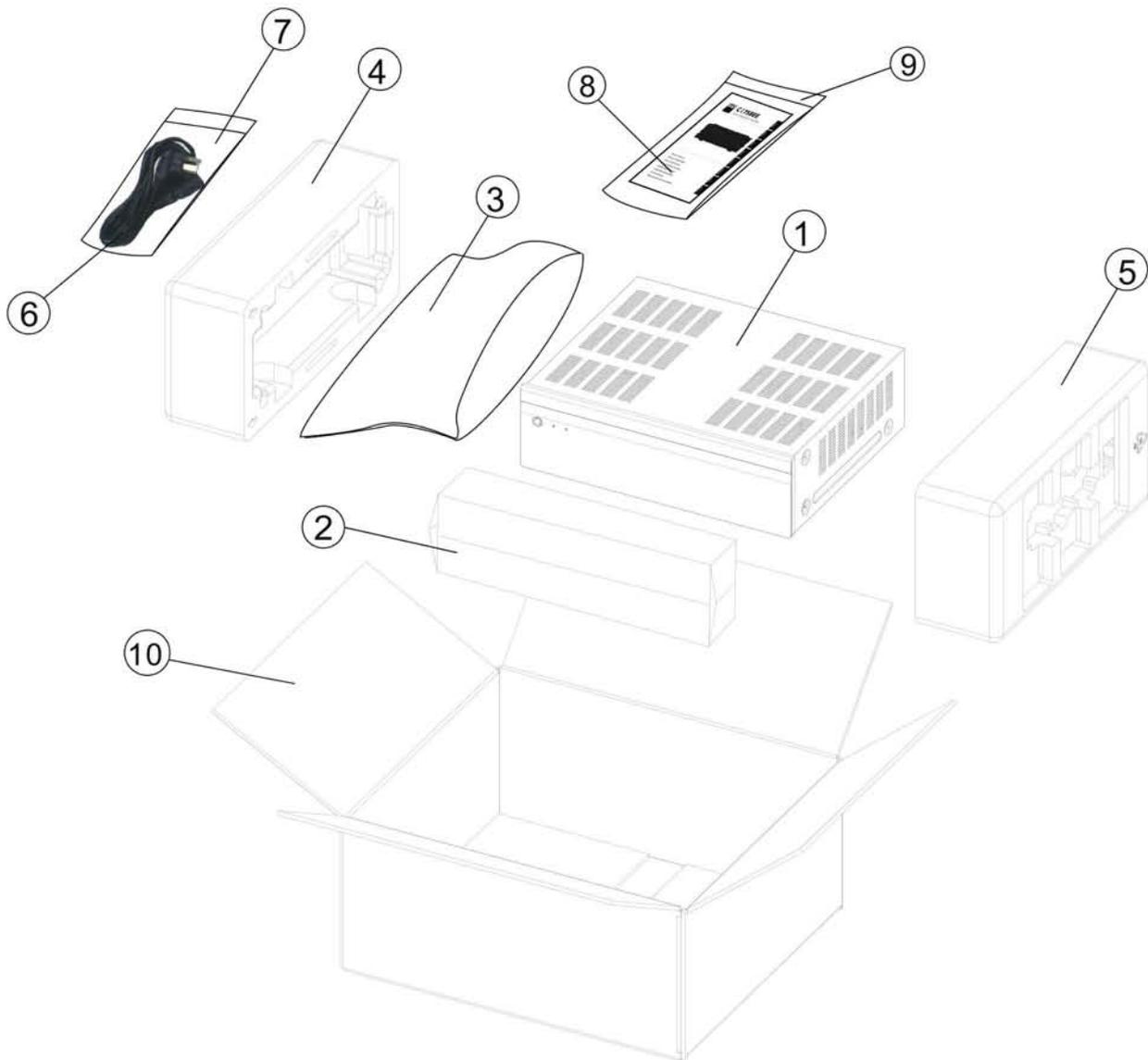
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

| REF.NO | PART NO. | DESCRIPTION | Qty. | REF.NO | PART NO. | DESCRIPTION | Qty. |
|--------|---------------|---------------------------|------|--------|---|----------------------------|------|
| | 01-37501-00 | Poweramp Module Board | 2 | F008 | 76-062001-1 | LED Lens | 2 |
| A001 | 70-124010-1 | Main Heatsink | 2 | F009 | 79-124003-0 | CR Foam C | 1 |
| A002 | 85-010001-0 | Spacer | 10 | F010 | 79-062001-0 | Rubber Pad | 4 |
| A003 | 66-018005-0 | Thermal Switch Clamping | 4 | F011 | 01-27513-00 | Display Board | 1 |
| A004 | 78-124001-0 | Insulated Cashion | 4 | F012 | 01-27514-10 | Standby Board | AH:1 |
| A005 | 02-37501-00 | Power Module Board | 2 | | 01-27514-20 | Standby Board | C:1 |
| S005 | 61-023208-0 | Self Taping Screws BTB3×8 | 20 | | | | |
| S008 | 61-023212-0 | Self Taping Screw BTB3×12 | 4 | | | | |
| S009 | 61-023215-0 | Self Taping Screw BTB3×15 | 10 | R001 | 67-125011-2A | Rear Panel | AH:1 |
| S010 | 61-353515-0 | Taptite Screw 3×15 | 16 | | 67-125001-2A | Rear Panel | C:1 |
| | | | | R002 | 17-03001-17 | Binding Post(Black) | 4 |
| | | | | R003 | 17-03001-16 | Binding Post(Red) | 4 |
| C001 | 67-124004-3 | New Chassis | 1 | R004 | JA20-20000-10 | Fuse Holder | 1 |
| C002 | 67-124010-0 | Base Cover | 1 | R005 | A11-01101-03 | Rocker Switch | 1 |
| C003 | 67-124011-0 | Shielding Box | 1 | R006 | A17-07002-07 | AC Inlet | 1 |
| C004 | 67-124012-0 | Shielding Box Cover | 1 | R007 | 01-37512-00 | BP Board | 1 |
| C005 | 66-005007-0 | Metal Disc | 1 | | | | |
| C006 | 94-124005-0 | Transformer label | 1 | | | | |
| C007 | 75-124001-0 | Foot | 4 | T001 | 67-124003-2 | Top Cover Graphite | 1 |
| C008 | J78-001002-0 | Foot Pad | 4 | | 67-124013-2 | Top Cover Titanium | Ti:1 |
| C009 | 73-003001-0 | Rotate Knob | 1 | | from S/N greater than: H02C275BEEG02144 | | |
| C010 | 69-005001-0 | Copper Spacer | 3 | | | | |
| C011 | A18-37571-01 | Main Transformer | 1 | S001 | 61-023206-0 | Self Taping Screws BTB3×6 | 12 |
| C012 | 01-27512-00 | Main Board | 1 | S002 | 61-023106-0 | Self Taping Screws STB3×6 | 30+3 |
| | | | | | 61-023106-1 | Self Taping Screws STB3×6 | Ti:3 |
| | | | | S003 | 61-023506-0 | Machine Screws MB3×6 | 9 |
| F001 | J70-125001-2A | Fascia | 1 | S004 | 61-023108-0 | Self Taping Screws STB3×8 | 5 |
| | J70-125011-2A | Fascia | Ti:1 | S005 | 61-023208-0 | Self Taping Screws BTB3×8 | 13 |
| F002 | 67-125002-3 | New Subfascia | 1 | S006 | 61-073108-0 | Self Taping Screws STO3×8 | 2 |
| F003 | J70-124002- | End Cap L | 1 | S007 | 61-373506-0 | Machine Screw M3×6 | 1 |
| | J70-124012-0 | End Cap L | Ti:1 | S011 | 61-084108-0 | Self Taping Screws STPW4X8 | 6 |
| F004 | J70-124003-0 | End Cap R | 1 | | 61-084106-2 | Self Taping Screws STPW4X6 | Ti:6 |
| | J70-124013-0 | End Cap R | Ti:1 | S012 | 64-110080-1 | Bolts,M10×80 | 1 |
| F005 | 77-124004-0 | Power Button Bezel | 1 | S013 | 63-011020-3 | Washers | 2 |
| | 77-123014-1 | Power Button Bezel | Ti:1 | S014 | 63-021030-0 | Spring Washers | 1 |
| F006 | J71-124001-0 | Power Button | 1 | S015 | 62-011002-0 | Nut,M10 | 1 |
| | J71-124011-0 | Power Button | Ti:1 | S016 | 63-040506-1 | Serrated Lock Washer | 8 |
| F007 | 77-062001-1 | LED Lens Bezel | 2 | | | | |
| | 77-062011-1 | LED Lens Bezel | Ti:2 | | | | |

PACKING DIAGRAM



| REF.N0 | Part No. | Description | Qty. |
|--------|----------------------------------|---------------------|--------|
| 1 | 00-27510-10 | C275Bee AH Version | AH:1 |
| | 00-27500-20 | C275Bee C Version | C:1 |
| | 00-27500-30 | C275Bee CT Version | CT:1 |
| 2 | 90-005002-3 | Non-Woven Cloth | 1 |
| 3 | 90-005001-0 | Polybag | 1 |
| 4 | 89-005002-5 | Polyfoam End Cap(2) | 1 |
| 5 | 89-005001-6 | Polyfoam End Cap(1) | 1 |
| 6 | JA15-10125-01 or A15-10125-00 | AC Cord | AH:1 |
| | JA15-10250-20 or A15-10250-00 | AC Cord | C/CT:1 |
| 7 | 90-001013-0 | AC Cord Polybag | 1 |
| 8 | 30-42751-00 | Instruction Manual | 1 |
| 9 | 90-001002-0 | Manu Polybag | 1 |
| 10 | 88-125001-0A | Carton Box | 1 |

