

**C 350**

**STEREO INTEGRATED  
AMPLIFIER**

**C 350**

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AMPLIFIER**

**SERVICE MANUAL**

**NAD**

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## SERVICE SAFETY PRECAUTIONS

### 1. Replacing the fuses

CAUTION: FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE, REPLACE ONLY WITH DESIGNATED TYPE OF FUSE FOR \*AH, \*B1, \*B AND \*C VERSIONS.

Reference No	Part Number	Description
F41—F44	20-00630-25	T6.3AL250V Fuse


#### NOTE:

- <\*AH> : USA, CANADIAN MODEL ONLY.
- <\*B> : UK MODEL ONLY.
- <\*B1> : AUSTRALIAN MODEL ONLY.
- <\*C> : EUROPEAN MODEL ONLY.

### 2. Safety check out

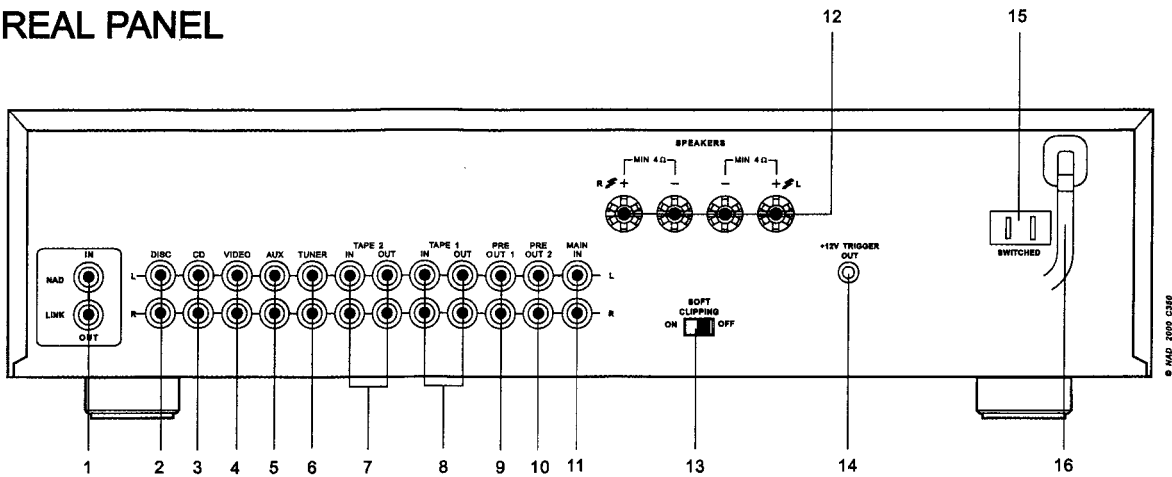
(Only U.S.A. Model)

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 with parts recommended by the manufacturer.

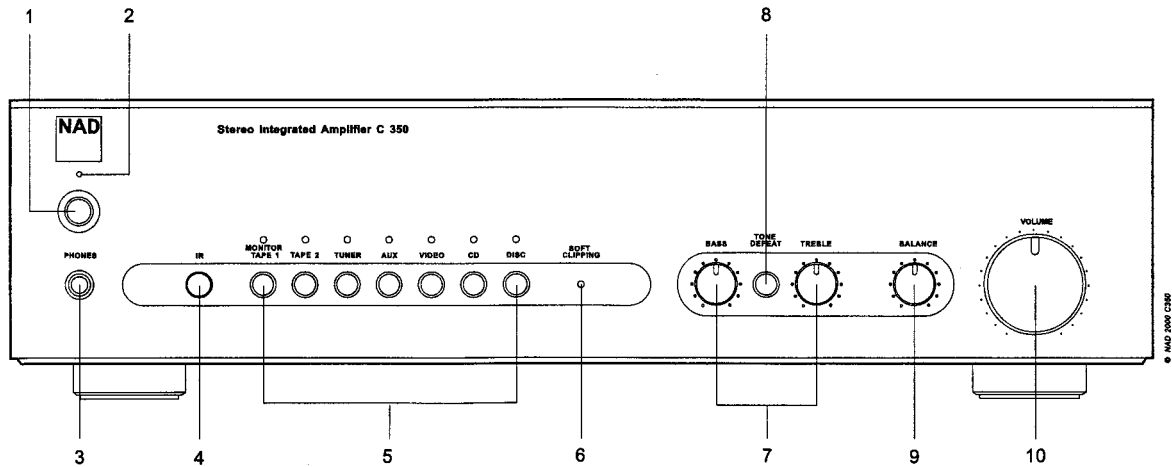
# REAR PANEL/FRONT PANEL VIEW

## REAL PANEL



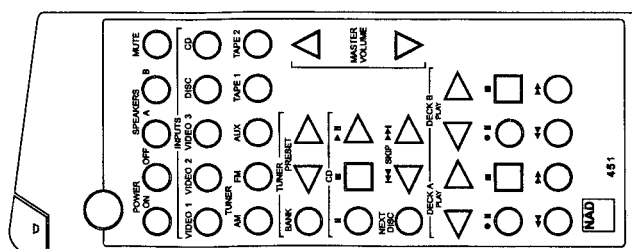
- |                   |                                      |
|-------------------|--------------------------------------|
| 1. NAD Link       | 9. PRE Out 1                         |
| 2. Disc Input     | 10. PRE Out 2                        |
| 3. CD Input       | 11. Main In                          |
| 4. Video Input    | 12. Speaker Out                      |
| 5. AUX Input      | 13. Soft Clipping Switch             |
| 6. Tuner Input    | 14. 12V Trigger Out                  |
| 7. Tape 2 In, Out | 15. Switched Outlet(AH Version Only) |
| 8. Tape 1 In, Out | 16. AC Cord                          |

## FRONT PANEL



- |   |                            |
|---|----------------------------|
| 1. Power Switch   | 6. Soft Clipping Indicator |
| 2. Power/Protection LED   | 7. Bass & Treble Controls  |
| 3. Headphone Socket   | 8. Tone Defeat Control     |
| 4. Infra-red Receiver   | 9. Balance Control         |
| 5. Input Selectors(Disc, CD, Video, AUX, Tuner, Tape 2, Tape 1 Monitor) | 10. Volume Control         |

## REMOTE CONTROL



# SPECIFICATIONS

## POWER AMPLIFIER SECTION STEREO MODE

<b>CONTINUOUS AVERAGE POWER OUTPUT INTO 8 OHMS OR 4 OHMS</b> (Min. power per channel, 20 Hz – 20 kHz, with no more than rated distortion)	<b>&gt;60 W (17.8 dBW)</b>
Rated Distortion (THD 20 Hz – 20 kHz)	<b>&lt;0.03%</b>
Clipping power (maximum continuous power per channel).	<b>&gt;70 W</b>
IHF dynamic headroom at 8 ohms	<b>+ 3.5dB</b>
IHF dynamic power (maximum short term power per channel)	
8 ohms:	<b>&gt;135 W (21.3 dBW)</b>
4 ohms:	<b>&gt;190 W (22.8 dBW)</b>
2 ohms:	<b>&gt;240 W (23.8 dBW)</b>
Damping factor (ref. 8 ohms 1 kHz)	<b>&gt;150</b>
Input Impedance	<b>R = 20 kohms C = 470 pF</b>
Input sensitivity (for rated output into 8 ohms)	<b>0.76 V ± 0.05V</b>
Voltage gain	<b>29.2dB ± 0.3dB</b>
Frequency response 20 Hz – 20 kHz	<b>&lt;±0.3dB</b>
Signal / Noise ratio, A-weighted	<b>&gt;100 dB ref. 1 W &lt;114 dB ref. 60 W</b>
THD + Noise (Total Harmonic Distortion, 20 Hz – 20 kHz, from 250 mW to rated output)	<b>&lt;0.03%</b>
SMPTE I.M. (Intermodulation Distortion, 60 Hz + 7 kHz, 4:1, from 250 mW to rated output)	<b>&lt;0.03%</b>
IHF I.M. (CCIF IM Distortion, 19 + 20 kHz at rated output)	<b>&lt;0.03%</b>
Headphones Output Impedance	<b>220 ohms</b>

## **PREAMPLIFIER SECTION**

### **LINE LEVEL INPUTS**

(Disc, CD, Video, Auxiliary, Tuner, Tape 1, Tape 2)

Input impedance (R and C)	<b>50 kohms + 320 pF</b>
Input sensitivity (ref. rated power)	<b>325 mV</b>
Maximum input signal	<b>&gt;6 V</b>
Signal / Noise ratio, A-weighted (from CD Input to Speakers Output, Volume Setting for 500mV in , 8ohms 1W out)	<b>&gt;95 dB ref. 1W</b>
Frequency response, 20 Hz – 20 kHz	<b>&lt;0.3 dB (tone defeat on) &lt;0.5 dB (tone defeat off)</b>
THD + Noise, SMPTE IM	<b>&lt;0.01% at 5 V out</b>

### **LINE LEVEL OUTPUTS**

Pre-amp output impedance	<b>100 ohms</b>
Tape output impedance	<b>Source Z + 1kohms</b>
Maximum output level	pre-amp out : <b>&gt;10 V</b> Tape-out : <b>&gt;10 V</b>

### **CONTROLS**

Treble	<b>+ 5 dB ± 0.5dB at 10 kHz -4.7dB ± 0.5dB at 10 kHz</b>
Bass	<b>+6.5 dB ± 0.5dB at 100Hz -5.5 dB ± 0.5dB at 100Hz</b>

### **DIMENSIONS AND WEIGHTS**

Net Weight	<b>7.5kg(16.5lbs)</b>
Shipping Weight	<b>8.7kg(19.2lbs)</b>
Dimension(WxHxD)	<b>435x109x290mm</b>

# ALIGNMENT PROCEDURE

## I. INITIAL ADJUSTMENT (No load connected)

### A. OUTPUT OFFSET VOLTAGE

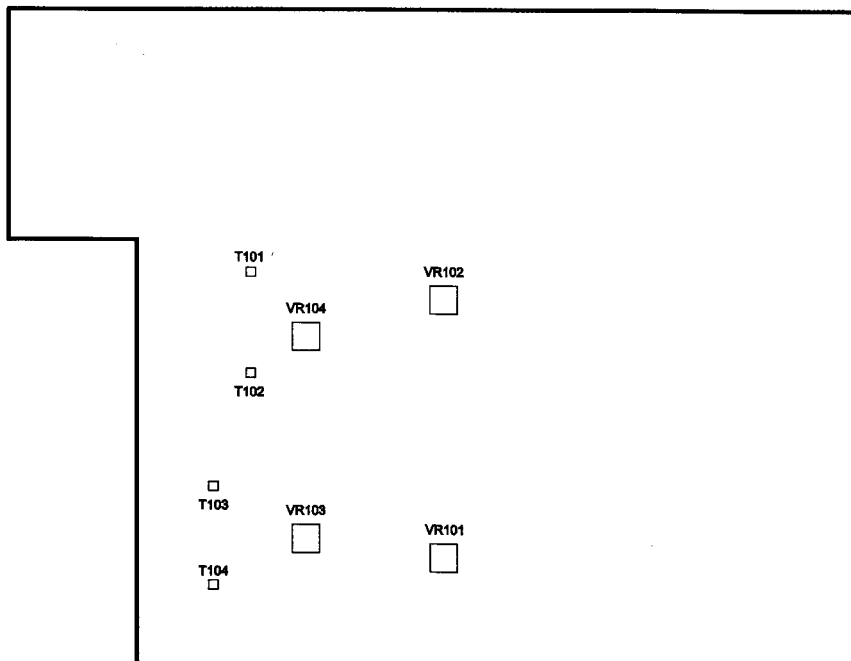
1. Connect a DC Millivoltmeter to L Channel speaker output terminals.
2. Turn unit "ON" and adjust VR102 (1 kohms) to get a reading of 0V+/-30 mV.
3. Connect the DC Millivoltmeter to R Channel speaker output terminals and adjust VR 101 (1kohms) to get a reading of 0 V+/-30 mV.

### B. IDLING CURRENT

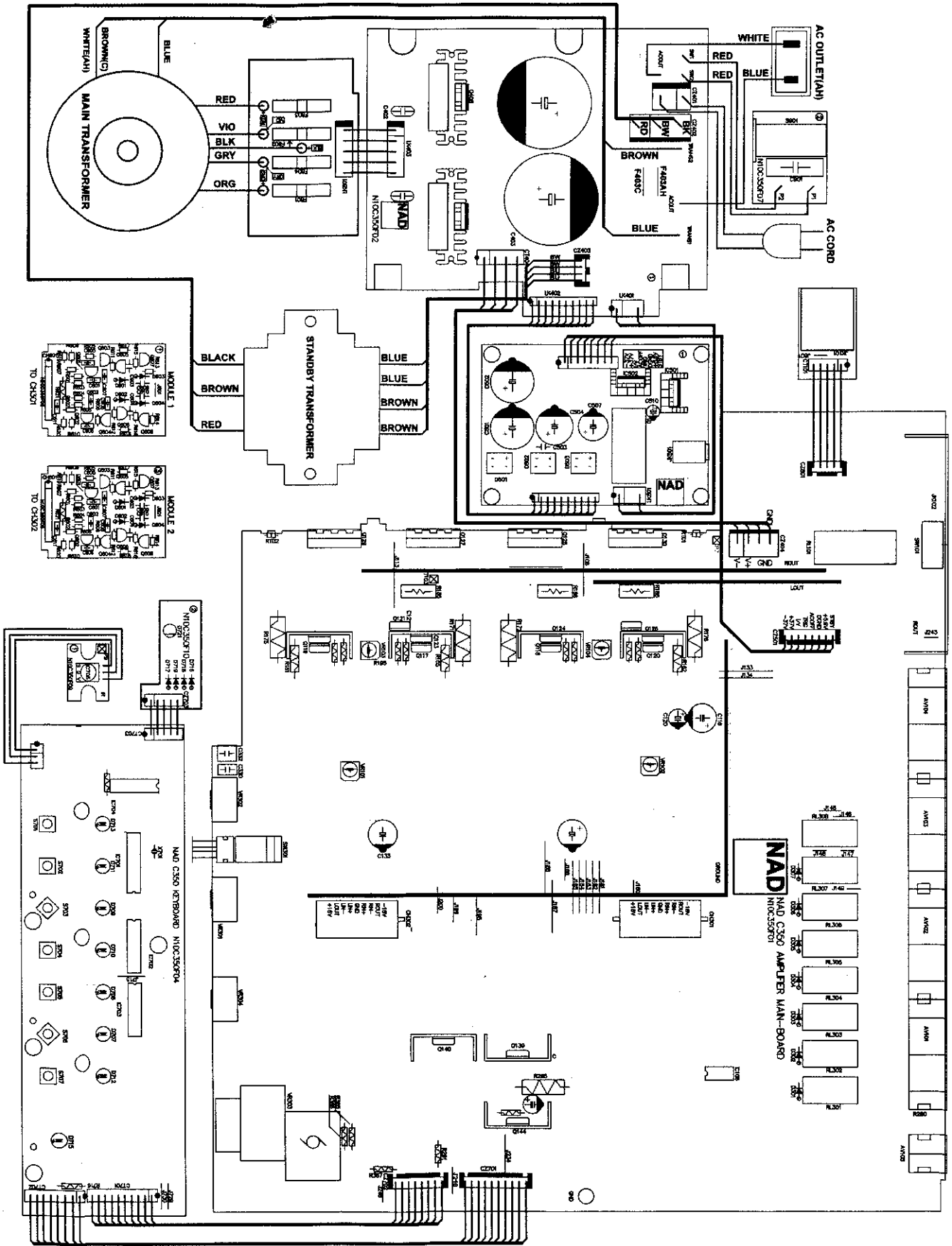
1. Leave power "ON" for a minimum of 5 minutes.
2. Connect a DC Millivoltmeter to T101 and T102 and adjust VR104 (300 ohms) for 5-6.5 mV reading on meter.
3. Connect a DC Millivoltmeter to T103 and T104 and adjust VR103 (300 ohms) for 5-6.5 mV reading on meter.

## II. FINAL ADJUSTMENT

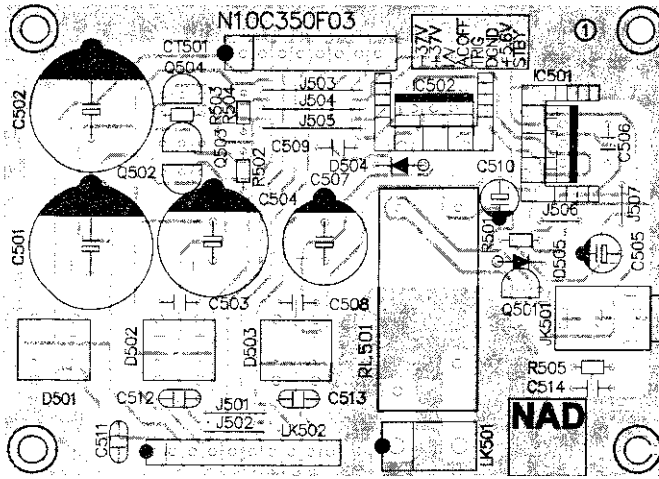
Repeat procedure A and B for offset voltage and idling current alignment respectively.



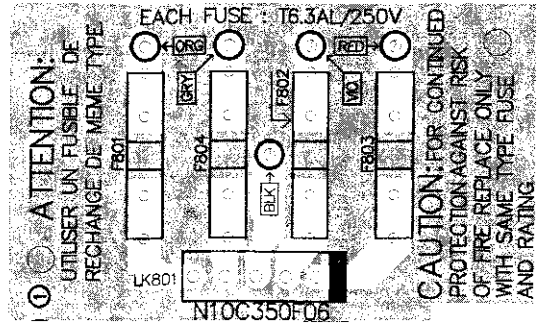
# WIRING DIAGRAM



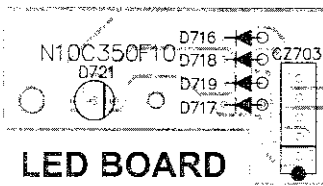
**PCB LAYOUT(SMALL BOARDS)**



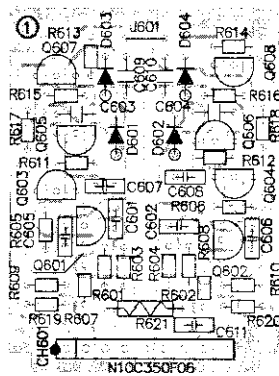
**STANDBY BOARD**



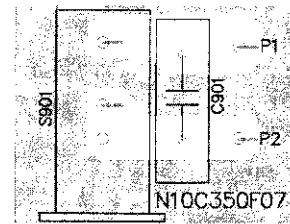
**FUSE BOARD**



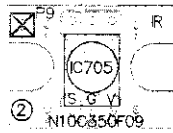
**LED BOARD**



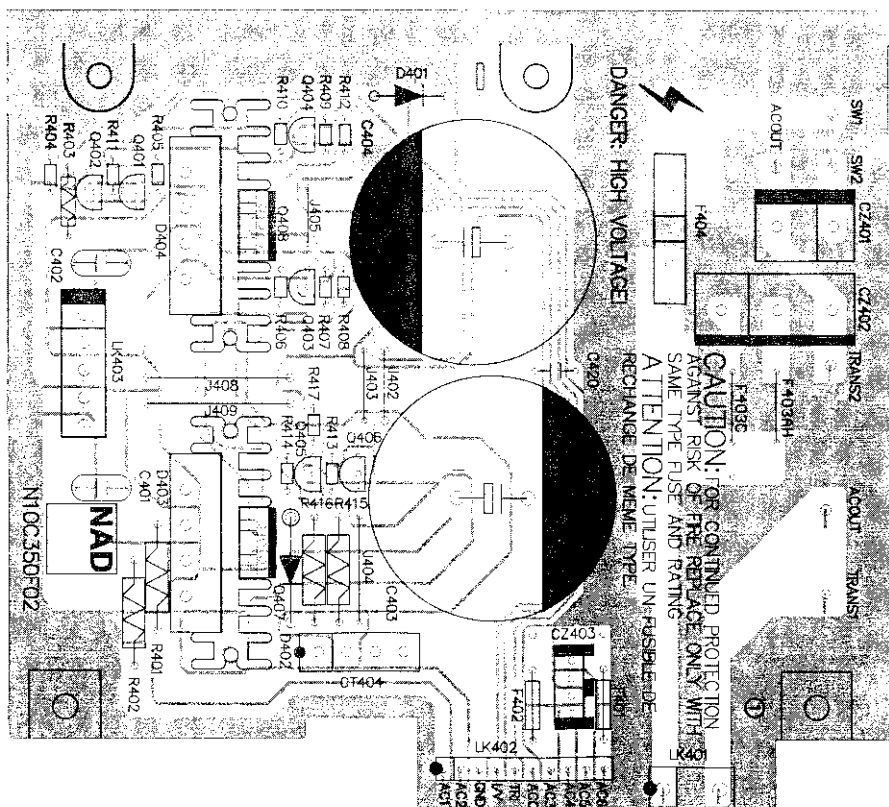
**PRE MODULE BOARD**



**POWER SWITCH BOARD**



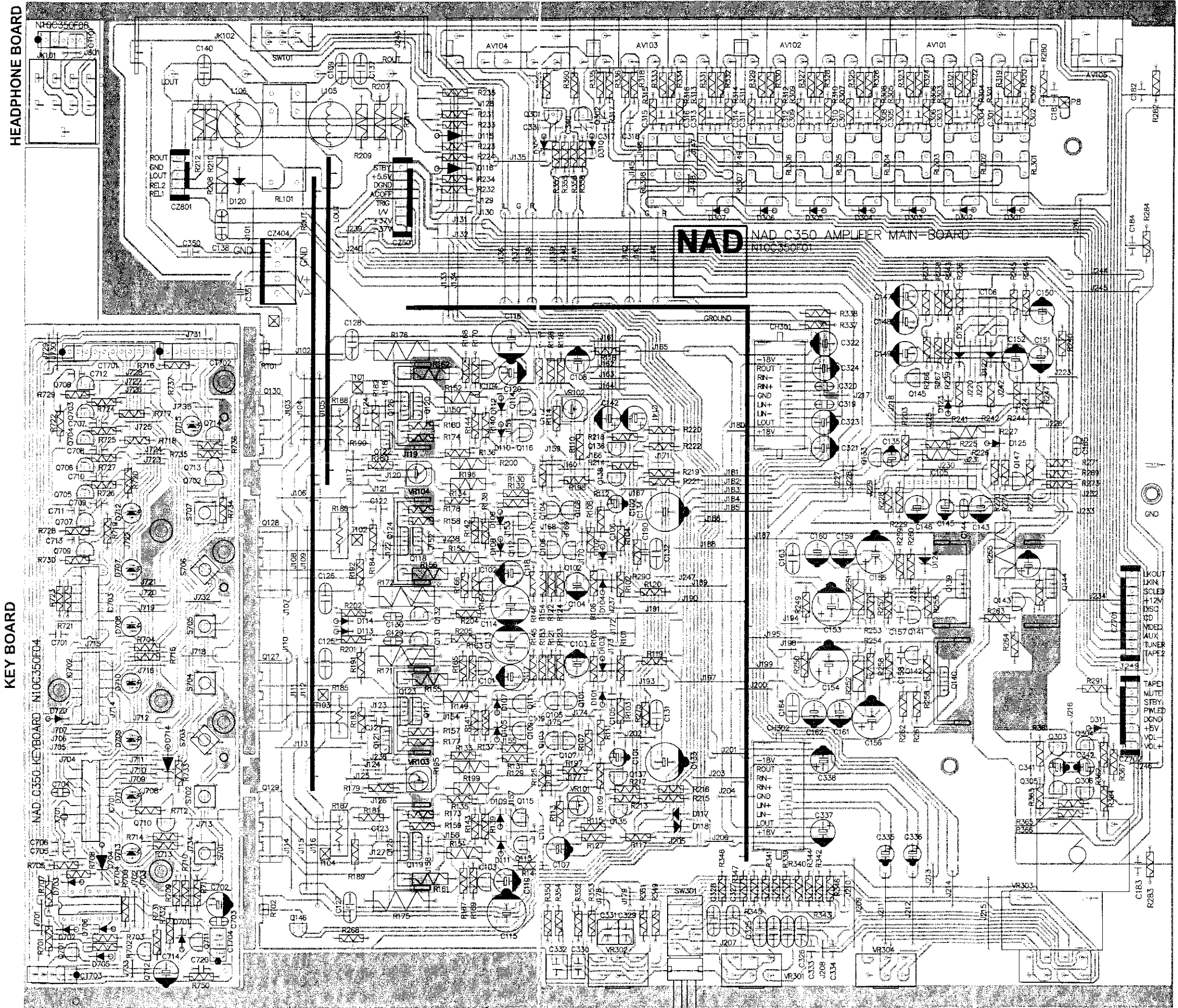
**IR RECEIVER BOARD**



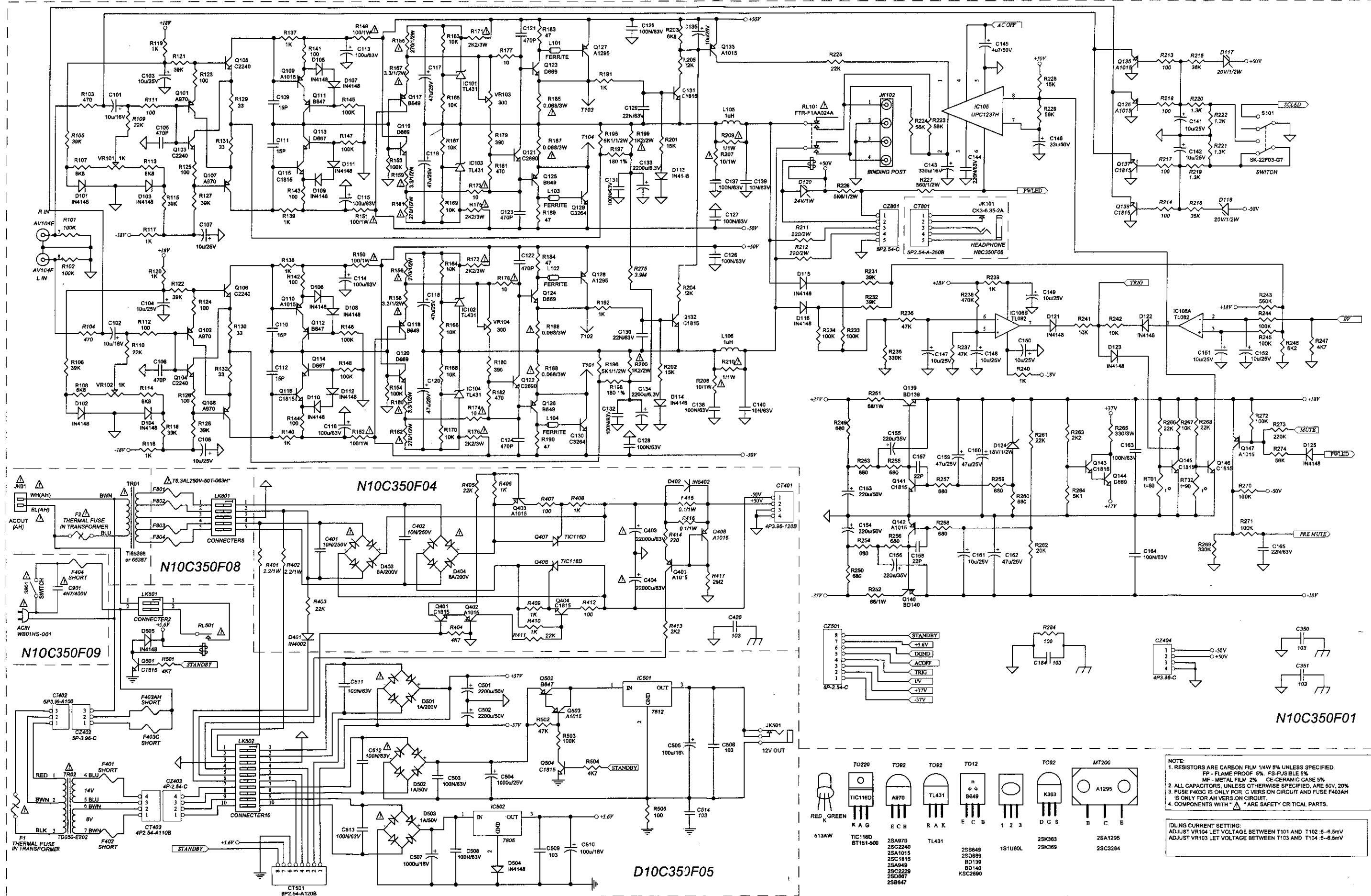
**POWER BOARD**



PCB LAYOUT (MAIN BOARD)

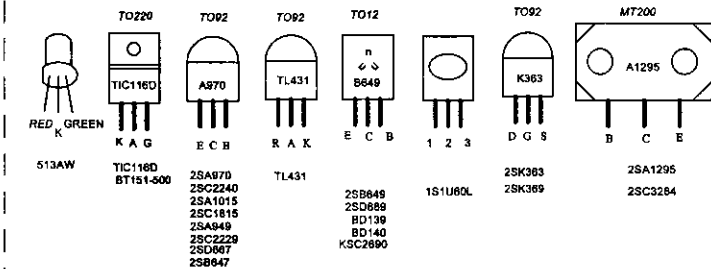


# SCHEMATIC DIAGRAM(AMP)

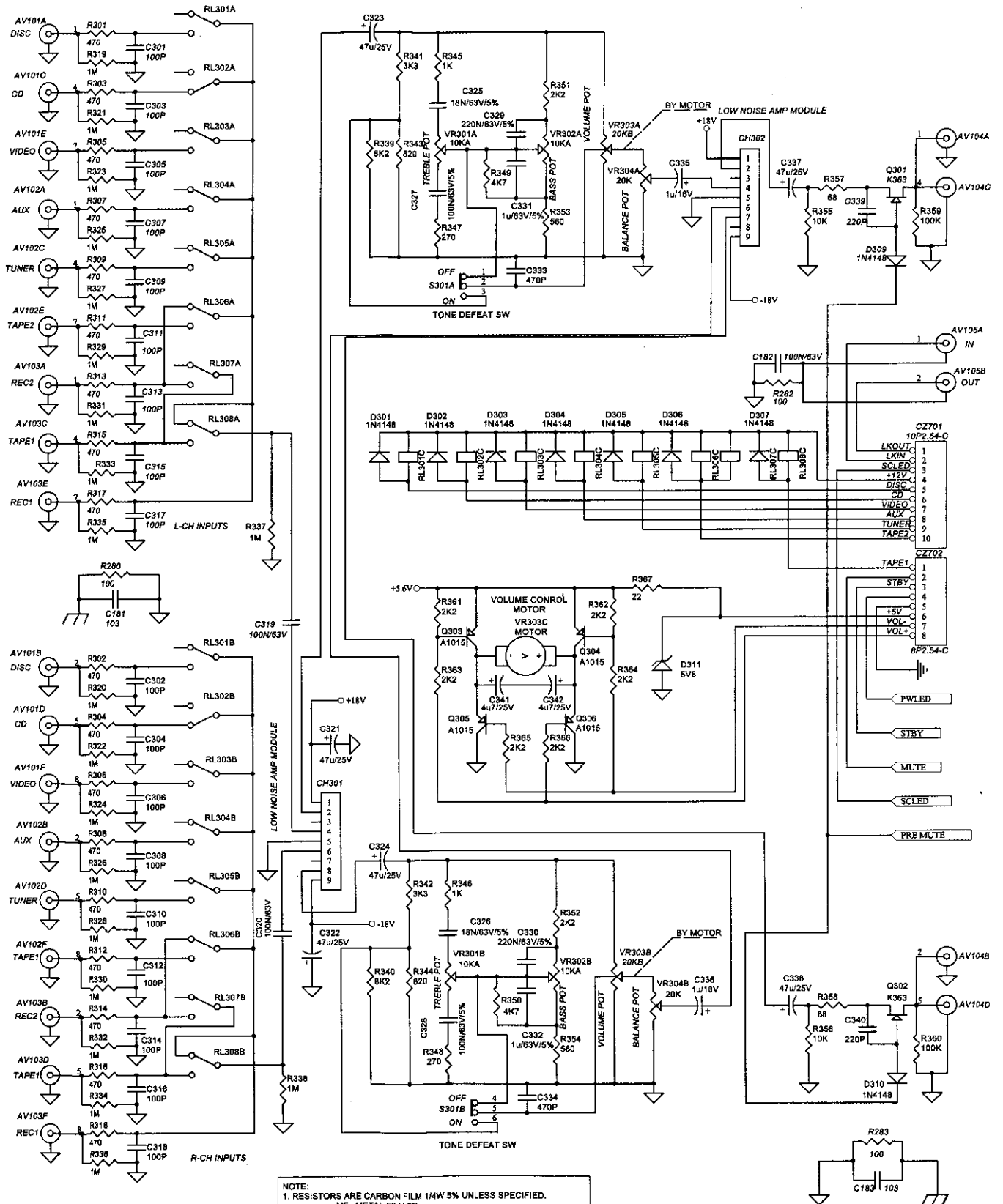


NOTE:  
 1. RESISTORS ARE CARBON FILM 1/4W 5% UNLESS SPECIFIED.  
 FP - FLAME PROOF 5% FS-FUSIBLE 5%  
 MF - METAL FILM 2% CE-CERAMIC CASE 5%  
 2. ALL CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 20%  
 3. FUSE F403C IS ONLY FOR C VERSION CIRCUIT AND FUSE F403AH  
 IS ONLY FOR AH VERSION CIRCUIT.  
 4. COMPONENTS WITH \* ARE SAFETY CRITICAL PARTS.

IDLING CURRENT SETTING:  
 ADJUST VR104 LET VOLTAGE BETWEEN T101 AND T102 5-6.5mV  
 ADJUST VR103 LET VOLTAGE BETWEEN T103 AND T104 5-6.5mV



# SCHEMATIC DIAGRAM(PREAMP)

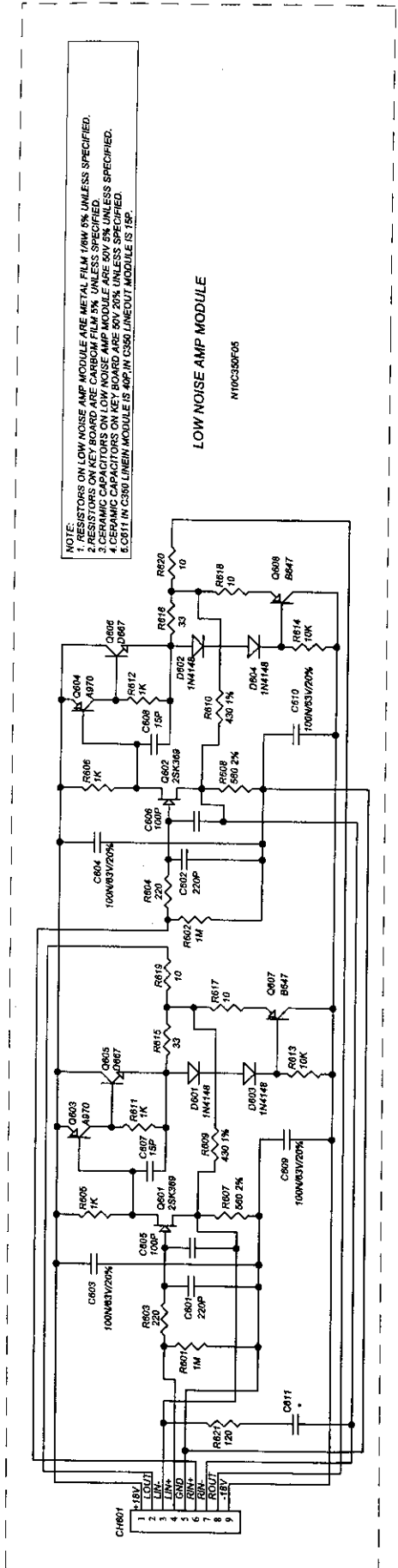
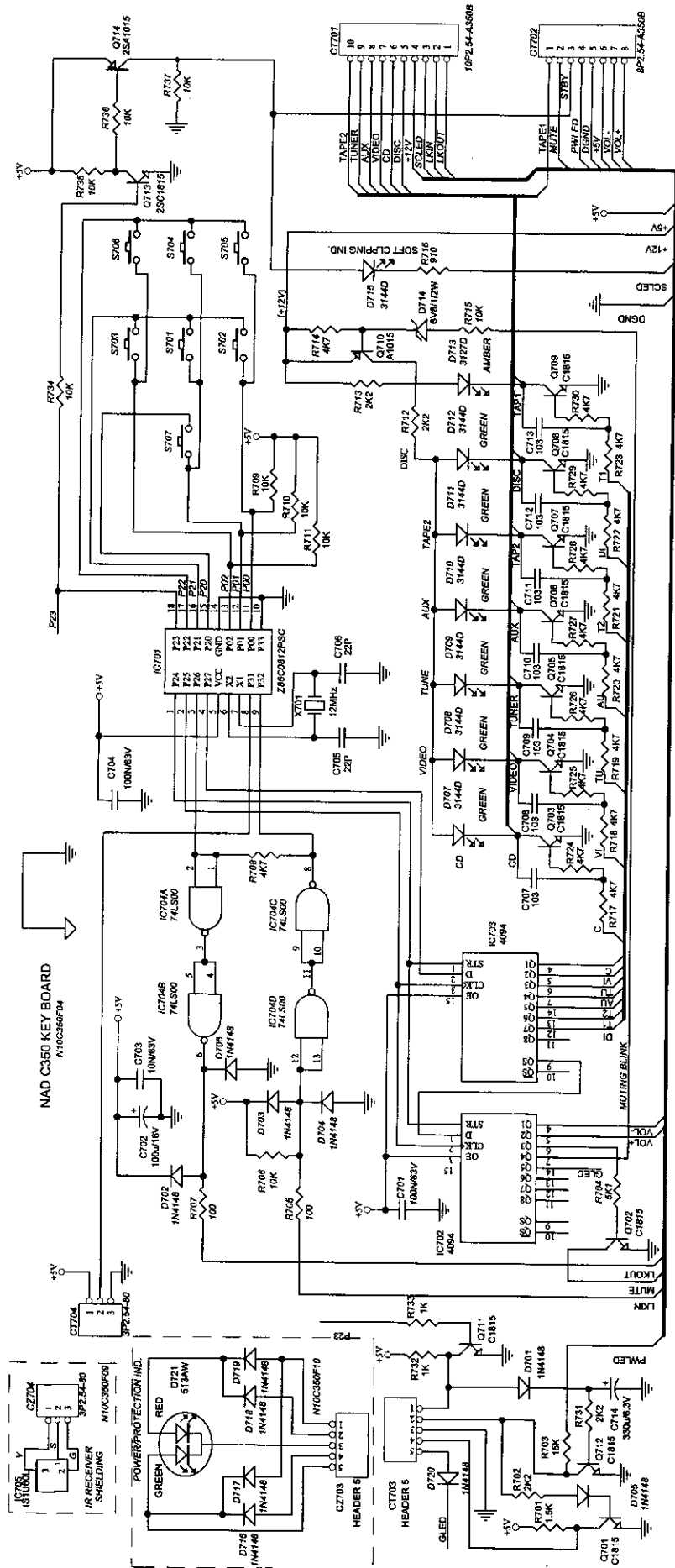


NOTE:  
 1. RESISTORS ARE CARBON FILM 1/4W 5% UNLESS SPECIFIED.  
 MF - METAL FILM 2%  
 2. ALL CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 20%  
 CD BEING SELECTED

N8C350F01

NAD C350 PRE-AMP

# SCHEMATIC DIAGRAM (KEY BOARD)



NOTE:  
 1. RESISTORS ON LOW NOISE AMP MODULE ARE METAL FILM 1/8W 5% UNLESS SPECIFIED.  
 2. RESISTORS ON KEY BOARD ARE CARBON FILM 5% UNLESS SPECIFIED.  
 3. CERAMIC CAPACITORS ON LOW NOISE AMP MODULE ARE 50V 5% UNLESS SPECIFIED.  
 4. CERAMIC CAPACITORS ON KEY BOARD ARE 50V 20% UNLESS SPECIFIED.  
 5. C811 IN C350 LINEAR MODULE IS 407M C850 LINEAR MODULE IS 15K.

LOW NOISE AMP MODULE  
 N10C350F05

# ELECTRICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION			
<b>RESISTORS</b>					
R367	07-05220-04	22 $\Omega$	1/4W	5%	Carbon Film Resistor
R129 R130 R131 R132	07-05330-04	33 $\Omega$	1/4W	5%	Carbon Film Resistor
R183 R184 R189 R190	07-05470-04	47 $\Omega$	1/4W	5%	Carbon Film Resistor
R357 R358	07-05680-04	68 $\Omega$	1/4W	5%	Carbon Film Resistor
R111 R112 R123 R124 R125	07-05101-04	100 $\Omega$	1/4W	5%	Carbon Film Resistor
R126 R213 R214 R217 R218					
R280 R282 R283 R705 R707					
R179 R180	07-05391-04	390 $\Omega$	1/4W	5%	Carbon Film Resistor
R103 R104 R181 R182 R301	07-05471-04	470 $\Omega$	1/4W	5%	Carbon Film Resistor
R302 R303 R304 R305 R306					
R307 R308 R309 R310 R311					
R312 R313 R314 R315 R316					
R317 R318					
R253 R254 R255 R256 R257	07-05681-04	680 $\Omega$	1/4W	5%	Carbon Film Resistor
R258 R259 R260					
R716	07-05911-04	910 $\Omega$	1/4W	5%	Carbon Film Resistor
R117 R118 R119 R120 R191	07-05102-04	1k $\Omega$	1/4W	5%	Carbon Film Resistor
R192 R239 R240 R732 R733					
R219 R220 R221 R222	07-05132-04	1.3k $\Omega$	1/4W	5%	Carbon Film Resistor
R701	07-05152-04	1.5k $\Omega$	1/4W	5%	Carbon Film Resistor
R263 R361 R362 R363 R364	07-05222-04	2.2k $\Omega$	1/4W	5%	Carbon Film Resistor
R365 R366 R702 R712 R713					
R731					
R247 R708 R714 R717 R718	07-05472-04	4.7k $\Omega$	1/4W	5%	Carbon Film Resistor
R719 R720 R721 R722 R723					
R724 R725 R726 R727 R728					
R729 R730					
R264 R704	07-05512-04	5.1k $\Omega$	1/4W	5%	Carbon Film Resistor
R246	07-05622-04	6.2k $\Omega$	1/4W	5%	Carbon Film Resistor
R107 R108 R113 R114 R203	07-05682-04	6.8k $\Omega$	1/4W	5%	Carbon Film Resistor
R163 R164 R165 R166 R167	07-05103-04	10k $\Omega$	1/4W	5%	Carbon Film Resistor
R168 R169 R170 R241 R242					
R267 R291 R355 R356 R706					
R709 R710 R711 R715 R734					
R735 R736					
R201 R202 R228 R703	07-05153-04	15k $\Omega$	1/4W	5%	Carbon Film Resistor
R109 R110 R204 R205 R225	07-05223-04	22k $\Omega$	1/4W	5%	Carbon Film Resistor
R266 R268 R403					
R215 R216	07-05363-04	36k $\Omega$	1/4W	5%	Carbon Film Resistor
R105 R106 R115 R116 R121	07-05393-04	39k $\Omega$	1/4W	5%	Carbon Film Resistor
R122 R127 R128 R231 R232					
R236 R237	07-05473-04	47k $\Omega$	1/4W	5%	Carbon Film Resistor
R223 R224 R229 R274	07-05563-04	56k $\Omega$	1/4W	5%	Carbon Film Resistor
R101 R102 R145 R146 R147	07-05104-04	100k $\Omega$	1/4W	5%	Carbon Film Resistor
R148 R153 R154 R233 R234					
R244 R245 R270 R271 R272					
R359 R360					
R273	07-05224-04	220k $\Omega$	1/4W	5%	Carbon Film Resistor
R235 R269	07-05334-04	330k $\Omega$	1/4W	5%	Carbon Film Resistor
R238	07-05474-04	470k $\Omega$	1/4W	5%	Carbon Film Resistor
R243	07-05564-04	560k $\Omega$	1/4W	5%	Carbon Film Resistor
R319 R320 R321 R322 R323	07-05105-04	1M $\Omega$	1/4W	5%	Carbon Film Resistor
R324 R325 R326 R327 R328					
R329 R330 R331 R332 R333					
R334 R335 R336 R337 R338					
R275	07-05395-04	3.9M $\Omega$	1/4W	5%	Carbon Film Resistor
R185 R186 R187 R188	07-050068-30A	0.068 $\Omega$	3W	5%	Cerment Resistor
R157 R158 R159 R160	07-05033-02B	3.3 $\Omega$	1/2W	5%	Flame Proof Resistor

# ELECTRICAL PARTS LIST CONTINUATION

REF. NO.	PART NO.	DESCRIPTION			
⚠ R155 R156 R161 R162	07-05271-02B	270 Ω	1/2W	5%	Flame Proof Resistor
⚠ R415 R416	07-05001-10B	0.1 Ω	1W	5%	Flame Proof Resistor
⚠ R209 R210	07-05010-10B	1 Ω	1W	5%	Flame Proof Resistor
⚠ R211 R212	07-05221-20B	220 Ω	2W	5%	Flame Proof Resistor
⚠ R199 R200	07-05122-20B	1.2k Ω	2W	5%	Flame Proof Resistor
⚠ R265	07-05331-30B	330 Ω	3W	5%	Flame Proof Resistor
⚠ R171 R172 R175 R176	07-05222-30B	2.2k Ω	3W	5%	Flame Proof Resistor
[R617 R618 R619 R620]x2	07-05100-06D	10 Ω	1/6W	5%	Metal Film Resistor
[R615 R616]x2	07-05330-06D	33 Ω	1/6W	5%	Metal Film Resistor
R407 R412 R505	07-05101-06D	100 Ω	1/6W	5%	Metal Film Resistor
[R621]x2	07-05121-06D	120 Ω	1/6W	5%	Metal Film Resistor
R414, [R603 R604]x2	07-05221-06D	220 Ω	1/6W	5%	Metal Film Resistor
[R609 R610]x2	07-01431-06D	430 Ω	1/6W	1%	Metal Film Resistor
[R607 R608]x2	07-02561-06D	560 Ω	1/6W	2%	Metal Film Resistor
R406 R408 R409 R410 [R605 R606 R611 R612]x2	07-05102-06D	1k Ω	1/6W	5%	Metal Film Resistor
R413	07-05222-06D	2.2k Ω	1/6W	5%	Metal Film Resistor
R404 R501 R504	07-05472-06D	4.7k Ω	1/6W	5%	Metal Film Resistor
[R613 R614]x2	07-05103-06D	10k Ω	1/6W	5%	Metal Film Resistor
R405 R411	07-05223-06D	22k Ω	1/6W	5%	Metal Film Resistor
R502	07-05473-06D	47k Ω	1/6W	5%	Metal Film Resistor
R503	07-05104-06	100k Ω	1/6W	5%	Metal Film Resistor
[R601 R602]x2	07-05105-06D	1M Ω	1/6W	5%	Metal Film Resistor
R417	07-05225-06D	2.2M Ω	1/6W	5%	Metal Film Resistor
R141 R142 R143 R144	07-02101-04D	100 Ω	1/4W	2%	Metal Film Resistor
R197 R198	07-01181-04D	180 Ω	1/4W	1%	Metal Film Resistor
R347 R348	07-02271-04D	270 Ω	1/4W	2%	Metal Film Resistor
R353 R354	07-02561-04D	560 Ω	1/4W	2%	Metal Film Resistor
R343 R344	07-02821-04D	820 Ω	1/4W	2%	Metal Film Resistor
R137 R138 R139 R140 R345 R346	07-02102-04D	1k Ω	1/4W	2%	Metal Film Resistor
R351 R352	07-02222-04D	2.2k Ω	1/4W	2%	Metal Film Resistor
R341 R342	07-02332-04D	3.3k Ω	1/4W	2%	Metal Film Resistor
R349 R350	07-05472-04D	4.7k Ω	1/4W	5%	Metal Film Resistor
R339 R340	07-02822-04D	8.2k Ω	1/4W	2%	Metal Film Resistor
R262	07-02203-04D	20k Ω	1/4W	2%	Metal Film Resistor
R261	07-02223-04D	22k Ω	1/4W	2%	Metal Film Resistor
R195 R196	07-01512-02D	5.1k Ω	1/2W	1%	Metal Film Resistor
R226	07-05562-02D	5.6k Ω	1/2W	5%	Metal Film Resistor
⚠ R173 R174 R177 R178	07-05100-04C	10 Ω	1/4W	5%	Fusible Resistor
⚠ R249 R250	07-05681-04C	680 Ω	1/4W	5%	Fusible Resistor
⚠ R227	07-05561-02C	560 Ω	1/2W	5%	Fusible Resistor
⚠ R401 R402	07-05022-10C	2.2 Ω	1W	5%	Fusible Resistor
⚠ R207 R208	07-05100-10C	10 Ω	1W	5%	Fusible Resistor
⚠ R251 R252	07-05680-10C	68 Ω	1W	5%	Fusible Resistor
⚠ R149 R150 R151 R152	07-05101-10C	100 Ω	1W	5%	Fusible Resistor
RT01	07-80001-00T	T0=80°C			Posistor
RT02	07-90001-00T	T0=90°C			Posistor
<b>POTENTIOMETERS</b>					
VR301 VR302	09-16103-12	10kA			Treble and Bass Potentiometers
VR303	09-16203-22M	20kB			Volume Potentiometer
VR304	09-16203-02	20k MN			Balance Potentiometer
VR101 VR102	10-01102-00T	1k Ω			SEMI Potentiometer
VR103 VR104	10-01301-00T	300 Ω			SEMI Potentiometer
<b>CAPACITORS</b>					
[C607 C608]x2 C611 (Lineout Module)	05-00150-20	15pF	50V	20%	Ceramic Disk Capacitor

# ELECTRICAL PARTS LIST CONTINUATION

REF. NO.	PART NO.	DESCRIPTION			
C109 C110 C111 C112	05-05150-20	15pF	50V	20%	Ceramic Disk Capacitor
C157 C158 C705 C706	05-00220-20	22pF	50V	20%	Ceramic Disk Capacitor
C611(Linein Module)	05-00400-20	40pF	50V	20%	Ceramic Disk Capacitor
C301 C302 C303 C304 C305 C306 C307 C308 C309 C310 C311 C312 C313 C314 C315 C316 C317 C318	05-00101-20	100pF	50V	20%	Ceramic Disk Capacitor
[C605 C606]x2	05-00101-20	100pF	50V	20%	Ceramic Disk Capacitor
C339 C340	05-00221-20	220pF	50V	20%	Ceramic Disk Capacitor
[C601 C602]x2	05-00221-20	220pF	50V	20%	Ceramic Disk Capacitor
C105 C106 C121 C122 C123 C124 C333 C334	05-01471-20	470pF	100V	20%	Ceramic Disk Capacitor
C121 C122 C123 C124	05-00471-20	470pF	50V	20%	Ceramic Disk Capacitor
C181 C183 C350 C351 C420 C506 C509 C514 C707 C708 C709 C710 C711 C712 C713	05-01103-20	103pF	100V	+50%-20%	Ceramic Disk Capacitor
C182 C503 C508 C512 C513 [C603 C604 C609 C610]x2 C701 C704	05-10104-20	100nF	50V	20%	Monolithic Capacitor
C511	05-11104-20	100nF	100V	20%	Monolithic Capacitor
C144	05-10224-20	220nF	50V	20%	Monolithic Capacitor
⚠ C901	05-04472-20	4n7	400VAC	20%	High Voltage Ceramic Capacitor
C329 C330	05-20224-05A	220nF	63V	5%	Metallized Polyester Film Capacitor
C331 C332	05-20105-05A	1uF	63V	5%	Metallized Polyester Film Capacitor
C703	05-20103-10	10nF	63V	10%	Metallized Polyester Film Capacitor
C139 C140	05-20103-10	10nF	63V	10%	Metallized Polyester Film Capacitor
C137 C138	05-20104-10	100nF	63V	10%	Metallized Polyester Film Capacitor
C401 C402	05-22103-10	10nF	250V	10%	Metallized Polyester Film Capacitor
C325 C326	05-30183-05	18nF	63V	5%	Mini-Polyester Capacitor
C129 C130 C165	05-30223-10	22nF	63V	10%	Mini-Polyester Capacitor
C125 C126 C127 C128 C131 C132 C163 C164	05-30104-10	0.1uF	63V	10%	Mini-Polyester Capacitor
C327 C328	05-30104-05	0.1uF	63V	5%	Mini-Polyester Capacitor
C319 C320	05-40104-10	0.1uF	100V	10%	Mini-Polyester Capacitor
C335 C336	06-50105-20	1uF	50V	20%	Electrolytic Capacitor
C145 C341 C342	06-50475-20	4u7F	50V	20%	Electrolytic Capacitor
C101 C102 C103 C104 C107 C108 C135 C141 C142 C147 C148 C149 C150 C151 C152 C161	06-50106-20	10uF	50V	20%	Electrolytic Capacitor
C146	06-50336-20	33uF	50V	20%	Electrolytic Capacitor
C117 C118 C119 C120 C159 C160 C162 C321 C322 C323 C324 C337 R338	06-25476-20	47uF	25V	20%	Electrolytic Capacitor
C505 C510 C702	06-16107-20	100uF	16V	20%	Electrolytic Capacitor
C113 C114 C115 C116	06-63107-20	100uF	63V	20%	Electrolytic Capacitor
C155 C156	06-35227-20	220uF	35V	20%	Electrolytic Capacitor
C153 C154	06-50227-20	220uF	50V	20%	Electrolytic Capacitor
C714	06-10337-20	330uF	10V	20%	Electrolytic Capacitor
C143	06-16337-20	330uF	16V	20%	Electrolytic Capacitor
C507	06-16108-20	1000uF	16V	20%	Electrolytic Capacitor
C504	06-25108-20	1000uF	25V	20%	Electrolytic Capacitor
C133 C134	06-06228-20	2200uF	6.3V	20%	Electrolytic Capacitor
C501 C502	06-50228-20	2200uF	50V	20%	Electrolytic Capacitor
C403 C404	06-63229-21	22000uF	63V	20%-10%	Electrolytic Capacitor
<b>DIODES</b>					
D311	02-00056-05	5V6	0.5W		Zener Diode
D714	02-00068-05	6V8	0.5W		Zener Diode

# ELECTRICAL PARTS LIST CONTINUATION

REF. NO.	PART NO.	DESCRIPTION
D124	02-00180-05	18V 0.5W Zener Diode
D117 D118	02-00200-05	20V 0.5W Zener Diode
D120	02-00240-10	24V 1W Zener Diode
D101 D102 D103 D104 D105 D106 D107 D108 D109 D110 D111 D112 D113 D114 D123 D125 D309 D310 D716 D717 D718 D719 [D601 D602 D603 D604]x2	02-24148-00	1N4148 Switch Diode
D301 D302 D303 D304 D305 D306 D307 D504 D505 D701 D702 D703 D705 D706 D720	02-24148-00	1N4148 Switch Diode
D121 D122	02-24148-00	1N4148 Switch Diode
D115 D116 D704	02-24148-00	1N4148 Switch Diode
D401	02-14002-00	1N4002 Recti Diode
D402	02-15402-00	1N5402 Recti Diode
D403 D404	02-42008-00	8A/200V Rectifier Bridge
D501 D502 D503	02-42001-00	1A/200V Rectifier Bridge
D707 D708 D709 D710 D711 D712 D715	02-33144-053	Green LED
D713	02-33127-033	Amber LED
D721	02-30515-255	Dual Color LED
<b>TRANSISTORS</b>		
Q117 Q118 Q125 Q126	01-00649-001	2SB649 Power Transistor
Q119 Q120 Q123 Q124 Q144	01-00669-001	2SD669 Power Transistor
Q139	01-00139-001	BD139 Power Transistor
Q140	01-00140-001	BD140 Power Transistor
Q109 Q110 Q133 Q135 Q136 Q142 Q147 Q303 Q304 Q305 Q306 Q402 Q403 Q405 Q406 Q503 Q710 Q714	01-01015-070	2SA1015 GR Small Signal Transistor
Q115 Q116 Q131 Q132 Q137 Q138 Q141 Q143 Q145 Q146 Q401 Q404 Q501 Q504 Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q711 Q712 Q713	01-01815-070	2SC1815 GR Small Signal Transistor
Q127 Q128	01-01295-002	2SA1295 Power Transistor
Q129 Q130	01-03264-002	2SC3264 Power Transistor
Q101 Q102 Q107 Q108 [Q603 Q604]x2	01-00970-070	2SA970 GR Small Signal Transistor
Q103 Q104 Q105 Q106	01-02240-070	2SC2240 GR Small Signal Transistor
Q111 Q112 Q502 [Q607 Q608] x2	01-00647-000	2SB647 Power Transistor
Q113 Q114 [Q605 Q606]x2	01-00667-000	2SD667 Power Transistor
Q301 Q302	01-00363-000	2Sk363 Junction FET
Q121 Q122	01-02690-001	kSC2690(hFE>200) Power Transistor
[Q601 Q602]x2	01-00369-070	2Sk369 GR Junction FET
	or	
	01-00117-000	2Sk117-BL Junction FET
Q407 Q408	01-201160-003	TIC116D Thyristor
	or	
	01-201510-003	BT151 Thyristor
<b>ICS</b>		
IC106	03-00082-08	TL082A Dual OP-AMP
IC105	03-01237-08	UPC1237HA Protection IC



# ELECTRICAL PARTS LIST CONTINUATION

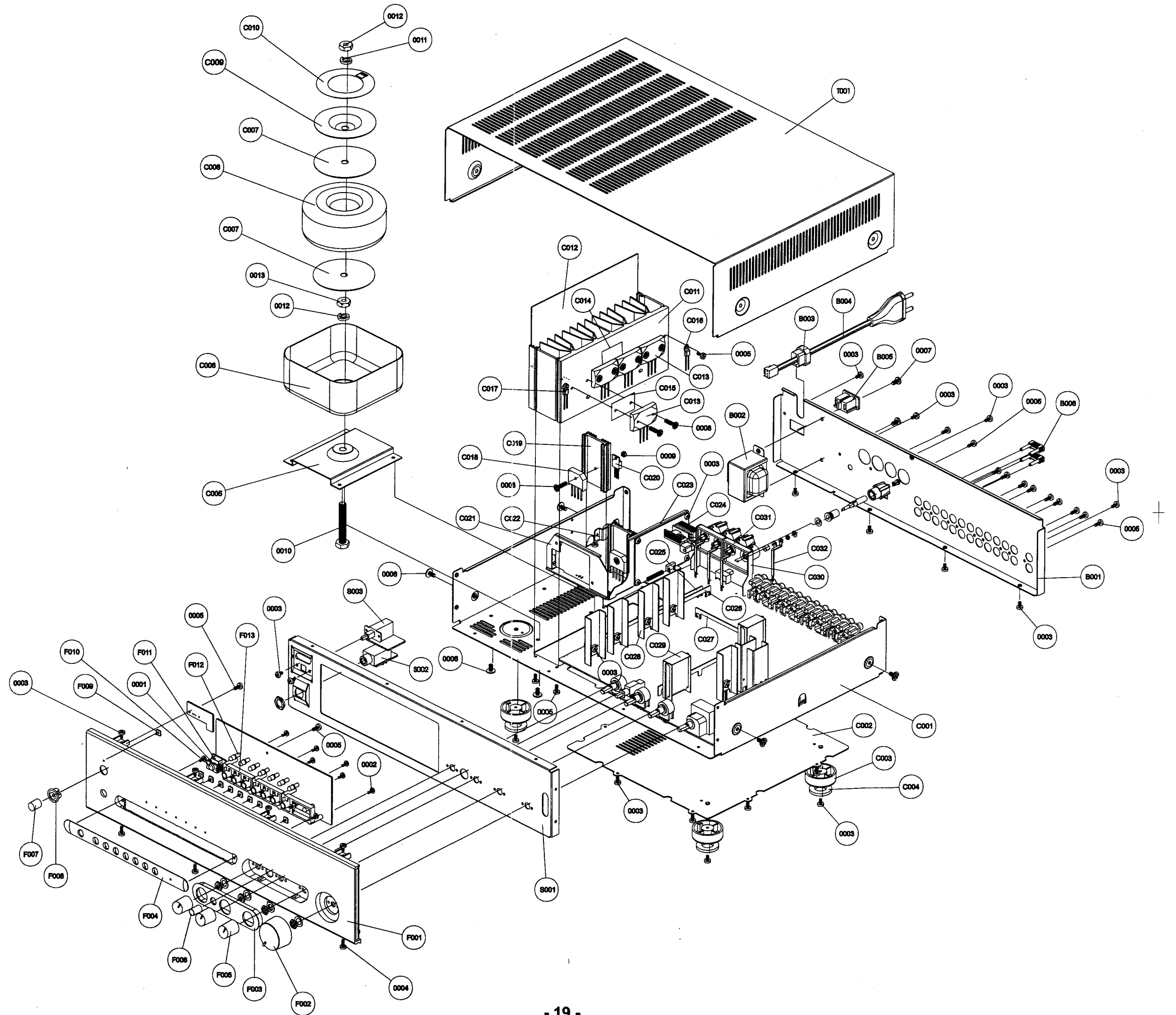
REF. NO.	PART NO.	DESCRIPTION		
IC704	03-00074-14	74LS00		Standard TTL
IC701	03-00812-18	Z86C(E)0812PSC		NAD MICOM
IC702 IC703	03-04094-16	CD4094		Standard CMOS
IC705	03-10621-03	IS1U621L		IR Sensor
IC101 IC102 IC103 IC104	01-10431-000	TA76431(TL431)		Regulator
IC502	01-07805-00	LM7805		Regulator
IC501	01-07812-00	LM7812		Regulator
<b>SWITCHES</b>				
⚠ S901*B1, B&C	11-01001-00	SDDL1027U	TV-3	Power Switch for 230V Version
⚠ S901*AH	11-01001-00A	PS4E-B-022	TV-5	Power Switch for 120V Version
S701 S702 S703 S704 S705 S706 S707	11-00004-01	Selector		Tact Switch
S301	11-01022-01	Tone Defeat		Push Switch
S101	11-02022-02	Soft Clipping		Slide Switch
<b>RELAYS</b>				
RL301 RL302 RL303 RL304 RL305 RL306 RL307 RL308	12-02012-01	HRS2H-2 DPDT	DC12V	I/P Relay
RL501	12-02005-05	FTR-H1AA005T	DC5V	Standby Relay
RL101	12-02024-05	FTR-H1AA024V	DC24V	SPK Relay
<b>OTHERS</b>				
X701	04-12000-00	Crystal 12M		12.000MHz
L105 L106	08-15580-10	1uH		Spring Coil
L101 L102 L103 L104	19-05050-00			Ferrite
⚠ TR01*B1, B&C	18-65386-00	TI-65386A		Transformer for 230V Version
⚠ TR01*AH	18-65387-00	TI-65387A		Transformer for 120V Version
⚠ TR02	18-50103-02	TD050-E103		Standby Transformer
⚠ F801 F802 F803 F804	20-00630-25	T6.3AL250-50T-063H		Fuses for All Version
Jk101	17-00200-01	PH-2ASW		Head Phone Jack
AV101 AV102 AV103 AV104	17-01200-06	6 holes		RCA
AV105	17-01200-02	2 holes		RCA
Jk501	17-3000-01D	+12V Out		Power Socket
Jk102	17-02200-04			Binding Post
⚠ AC Outlet*AH	17-3000-02A			For 120V Version
⚠ AC Cord*B1, B&C	15-00183-00C	AC Cord With3p-3.96B		For 230V Version
⚠ AC Cord*AH	15-00203-00A	AC Cord With3p-3.96B		For 120V Version
<b>PCB BOARD</b>				
⚠ PC Board	16-0C350-01			Main Board
⚠ PC Board	16-0C350-05			Key Board
⚠ PC Board	16-0C350-02			Supply Board
⚠ PC Board	16-0C350-04			Power SW Board
⚠ PC Board	16-0C350-03			Phones Board
⚠ PC Board	16-0C350-06			LED Board
⚠ PC Board	16-0C350-07			Modual PCB
⚠ PC Board	16-0C350-09			Fuse Board
⚠ PC Board	16-0C350-08			IR-Board
⚠ PC Board	16-0C350-10			Standby-Board

# EXPLODED VIEW PARTS LIST

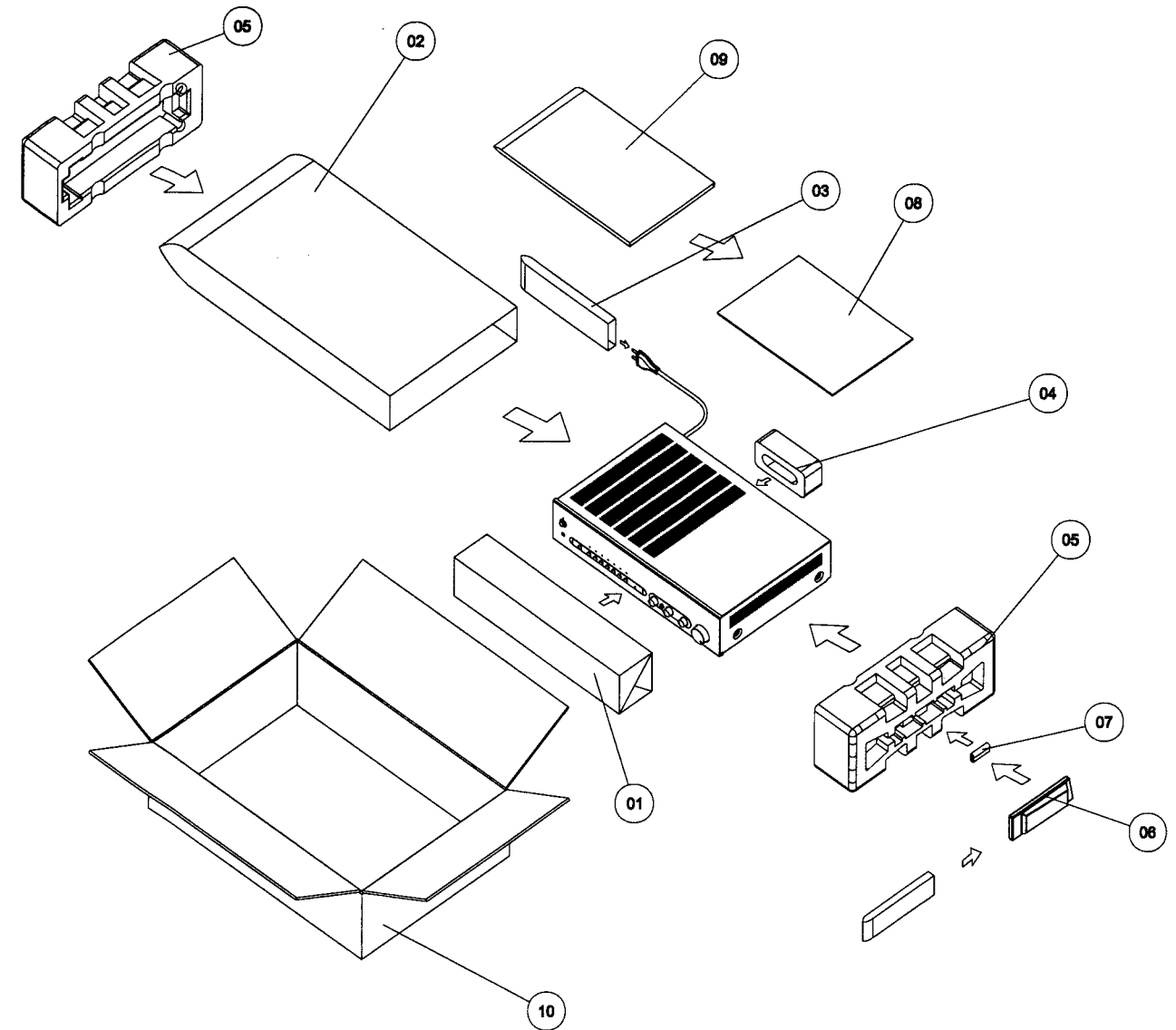
REF. NO.	PART NO.	DESCRIPTION	Qty.
C001	45-00350-02	Chassis	1
C002	45-00320-04	Base Cover	1
C003	53-00320-05	Foot	4
C004	56-00320-01	Foot Pad	4
C005	45-00320-07	Trans. Bracket	1
C006	46-00302-03	Shielding Box	1
C007	56-00320-05	Rubber Pad	2
⚠ C008*B,B1&C	18-65386-00	Transformer for 230V Version	1
⚠ C008*AH	18-65387-00	Transformer for 120V Version	1
C009	45-00320-09	Transformer Disc	1
C010	69-00320-02	Transformer Label	1
C011	47-00350-01	Heat Sink (Big)	1
C012	47-00320-04	Heat Sink (Big) Plate	1
C013	01-03264-002	Power Transistor	2
C014	01-01295-002	Power Transistor	2
C015	56-00350-01	Heat Conductive Pad	4
C016	07-80001-00T	Posistor 80°C	1
C017	07-90001-00T	Posistor 90°C	1
C018	02-42008-00	Rectifier Bridge	2
C019	47-00350-02	Heat Sink B	2
C020	01-201160-003	Thyristor TIC116D	1
	or		
	01-201510-003	Thyristor BT151	1
C021	45-00320-10	Fuse Board Bracket	1
C022	45-00320-02	Stopper	1
C023	45-00350-01	PCB Support	1
C024	47-00350-03	Heat Sink C	2
C025	48-00320-03	BusBar B	1
C026	48-00320-02	BusBar A	1
C027	48-00320-04	BusBar C	1
C028	47-00320-01	Heat Sink A	7
C029	48-00320-08	Module Support	2
C030	45-00320-12	BDP Support	1
C031	17-02200-04	Binding Post	1
C032	48-00320-01	BDP Pins	4
F001	55-00350-01	Fascia	1
F002	51-00320-01	Volume Knob	1
F003	53-00320-01	Tone Control Lozenge	1
F004	53-00320-02	Input Botton Lozenge	1

REF. NO.	PART NO.	DESCRIPTION	Qty.
F005	51-00320-02	Tone Knob	3
F006	52-00320-01	Tone Control Button	1
F007	52-00320-02	Power Button	1
F008	53-00320-04	Power Button Bezel	1
F009	54-00320-02	LED lens	9
F010	54-00320-01	IRS lens	1
F011	45-00320-11	IR Cover	1
F012	59-00320-02	LED Spacer Support	7
F013	53-00320-02	Input Botton (3P)	2
		Input Botton (1P)	1
S001	45-00350-03	Subfascia	1
S002	17-00200-01	HeadPhone Jack	1
⚠ S003*B, B1&C	11-01001-00	Power Switch for 230V Version	1
⚠ S003*AH	11-01001-00H	Power Switch for 120V Version	1
⚠ B001*B, B1&C	46-00350-01	Rear Panel for 230V Version	1
⚠ B001*AH	46-00350-01H	Rear Panel for 120V Version	1
⚠ B002	18-50103-02	Standby transformer	1
⚠ B003	58-00320-01	Strain Relief Bushing	1
⚠ B004*B, B1&C	15-00183-00C	AC Cord for 230V Version	1
⚠ B004*AH	15-00203-00A	AC Cord for 120V Version	1
⚠ B005*AH	17-3000-01D	AC Outlet for 120V Version	1
B006	49-00320-01	Shorting plug	2
T001	46-00350-02	Top Cover	1
0001	40-12604-01	Self Taping Screw (BTB2.6x4)	2
0002	40-12606-01	Self Taping Screw (BTB2.6x6)	13
0003	40-03006-01	Self Taping Screw (STB3x6)	42
0004	40-03008-01	Self Taping Screw (STB3x8)	16
0005	40-13008-01	Self Taping Screw (BTB3x8)	18
0006	40-04008-01	Self Taping Screw (STPW4x8)	8
0007	40-14008-01	Self Taping Screw (STB4x8)	2
0008	40-03105-01	Machine Screw (MPW3x15)	10
0009	41-03003-00	Nut (M3)	2
0010*B, B1, C	40-08045-22	Bolt (M8x50)	1
0010*AH		Bolt (M8x45)	1
0011	43-08002-00	Spring Washer (8mm)	2
0012	41-08008-00	Nut (M8)	2

# EXPLODED VIEW



# PACKING DIAGRAM



Ref. No.	Part No.	Description	Q'TY
01.	64-00320-02	EPE Fascia Cover	1
02.	63-00320-01	Polybag	1
03.	63-00320-03	AC Cord Polybag	1
04.	62-00320-02	Polyfoam BDP Unit	1
05.	62-00350-01	Polyfoam End Cap	2
06.	30-0C451-01	Remote Control	1
07.	31-07150-00	Batteries	2
08.	65-00350-01	Instruction Manual	1
09.	63-00320-02	Manual Polybag	1
10.	61-00350-01	Carton Box	1

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