

Service
Service
Service



Service Manual

TABLE OF CONTENTS

	Page
Specifications	1-1
Measurement Setup	1-2
Service Aids, Safety Instruction, etc	1-3 to 1-6
Block Diagram	2
Wiring Diagram.....	3
Front Board & USB Board	4
CPU/WMA Board.....	5
Main Board & Power Board.....	6
AMP (Low Power) Board	7
Mechanical Exploded View & Parts List	8



© Copyright 2007 Philips Consumer Electronics B.V. Eindhoven, The Netherlands
All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, or otherwise without the prior permission of Philips.

Published by SL0706 Service Audio

Printed in The Netherlands Subject to modification.



GB 3141 785 31630

Version 1.0



PHILIPS

SPECIFICATION

AMPLIFIER

RMS output power	
1KHz (Low channel-both channels driven)	60 W per channel
10KHz (High channel-both channels driven)	60 W per channel
Total output power	240 W
Signal-to-noise ratio	67 dB A (IEC)
Frequency response	50 – 16000 Hz
Input sensitivity	
AUX	1500mV/2000mV
Output	
Speakers	6 Ω
Headphones	32 Ω
(1) (8 Ω , 1 kHz, 10%THD)	

CD/MP3-CD PLAYER

Number of programmable tracks	40
Frequency response	50 – 20000 Hz -3dB
Signal-to-noise ratio	75 dB A
Channel separation	50 dB (1 kHz)
Total harmonic distortion	< 1.5%
MPEG 1 Layer 3 (MP3-CD)	MPEG AUDIO
MP3-CD bit rate	32-256 kbps
	(128 kbps advised)
Sampling frequencies	32, 44.1, 48 kHz

TUNER

FM wave range	87.5 – 108 MHz
MW wave range	531 – 1602 kHz
Number of presets	40
Antenna	
FM	75 Ω wire
MW	Loop antenna

USB PLAYER

USB	12Mb/s,V1.1
.....	support MP3 and WMA files
Number of albums/folders	maximum 99
Number of tracks/titles	maximum 400

TAPE PLAYER

Frequency response	
Normal tape (type I)	125 – 8000 Hz (8 dB)
Signal-to-noise ratio	
Normal tape (type I)	48 dB A
Wow and flutter	\leq 0.4% DIN

SPEAKERS

System	2-way; double port bass reflex
Impedance	6 Ω
Woofer	1 x 13cm
Tweeter	1 x 5cm
Dimensions (w x h x d)	27.3 x 31 x 20.4 (cm)
Weight	3.65 kg each

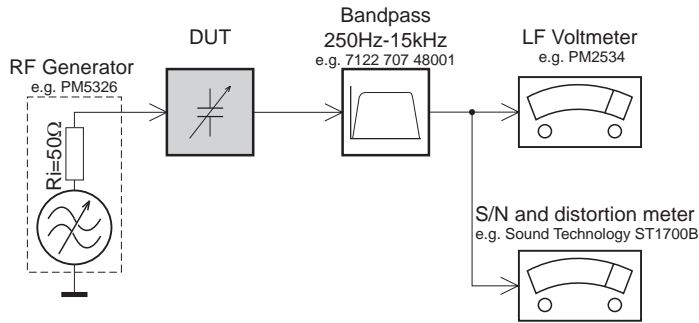
GENERAL

Material/finish	Polystyrene/Metal
AC Power	220 – 230 V / 50 Hz
Power Consumption	
Active	120 W
Standby	\leq 15 W
Eco Power standby	\leq 1 W
Dimensions (w x h x d)	26.5 x 31 x 38.4 (cm)
Weight (without speakers)	9.1 kg

Specifications and external appearance are subject to change without notice.

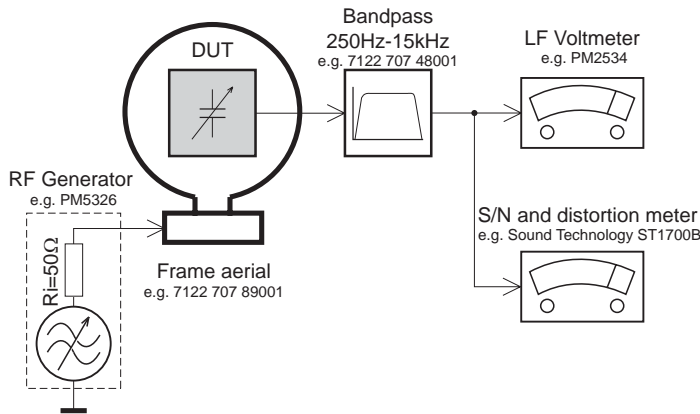
MEASUREMENT SETUP

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilotone (19kHz, 38kHz).

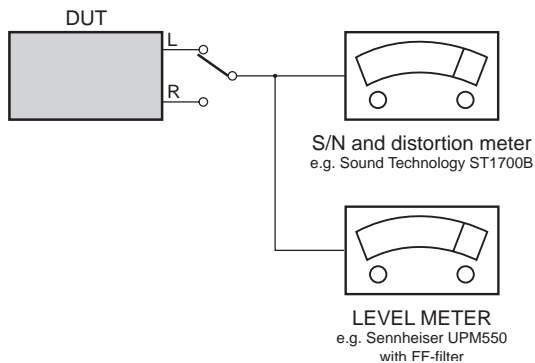
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

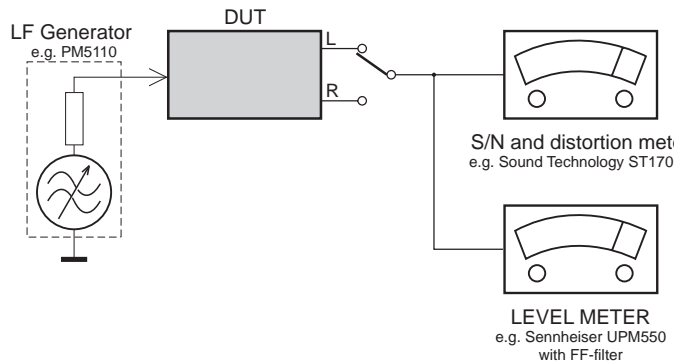
CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)



Recorder

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069
or Universal Test Cassette **Fe** SBC420 4822 397 30071



SERVICE AIDS

Service Tools:

Universal Torx driver holder	4822 395 91019
Torx bit T10 150mm	4822 395 50456
Torx driver set T6-T20	4822 395 50145
Torx driver T10 extended	4822 395 50423

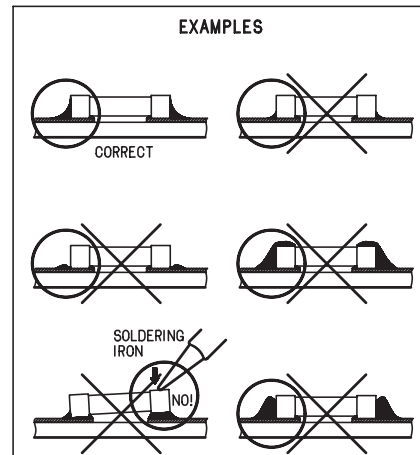
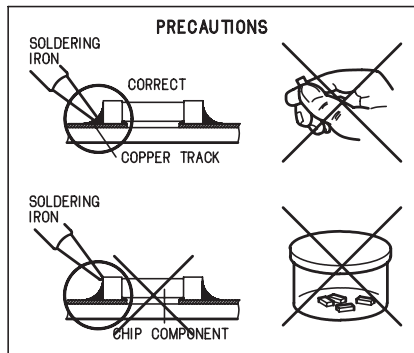
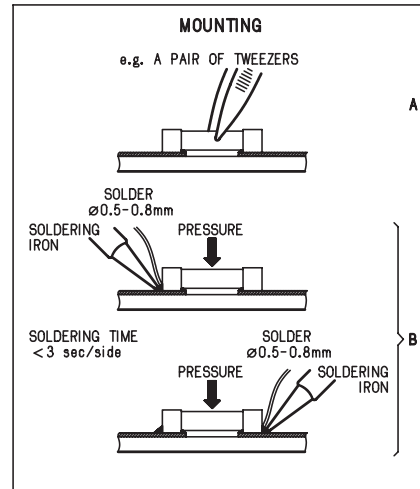
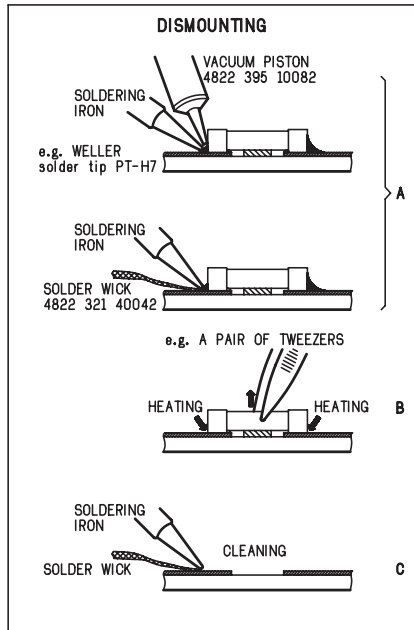
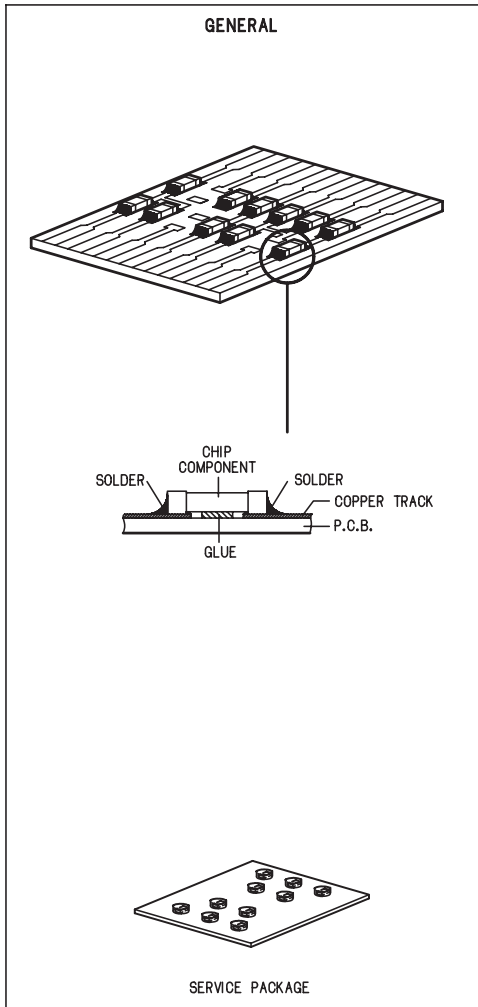
Compact Disc:

SBC426/426A Test disc 5 + 5A	4822 397 30096
SBC442 Audio Burn-in test disc 1kHz	4822 397 30155
SBC429 Audio Signals disc	4822 397 30184
Dolby Pro-logic Test Disc	4822 395 10216

ESD Equipment:

Anti-static table mat - large 1200x650x1.25mm ...	4822 466 10953
anti-static table mat - small 600x650x1.25mm	4822 466 10958
Anti-static wristband	4822 395 10223
Connectorbox (1M Ω)	4822 395 11307
Extension cable (to connect wristband to conn.box)	4822 320 11305
Connecting cable (to connect table mat to conn.box)	4822 320 11306
Earth cable (to Connect product to mat or box) --	4822 320 11308
Complete kit ESD3 (combining all above products)	4822 320 10671
Wristband tester	4822 344 13999

HANDLING CHIP COMPONENTS



(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).

Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.

Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(GB)

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

(NL)

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

(F)

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

(D)

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."

ESD**(D) WARNUNG**

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).

Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).

La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.

Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

**(GB) Warning !**

Invisible laser radiation when open.
Avoid direct exposure to beam.

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

(SF) Varoitus !

Avatussa laitteessa ja suojaletituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

INFORMATION ABOUT LEAD-FREE SOLDERING

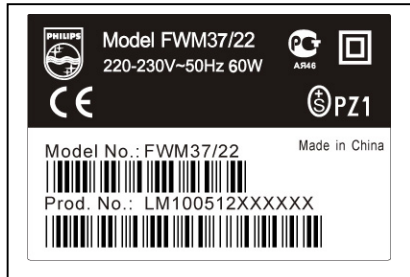
Philips CE is producing lead-free sets from 1.1.2005 onwards.

IDENTIFICATION:

Regardless of special logo (not always indicated) one must treat all sets from 1 Jan 2005 onwards, according next rules:



Example S/N:



Bottom line of typeplate gives a 14-digit S/N. Digit 5&6 is the year, digit 7&8 is the week number, so in this case 2005 wk12

So from 0501 onwards = from 1 Jan 2005 onwards

Important note: In fact also products of year 2004 must be treated in this way as long as you avoid mixing solder-alloys (lead/ lead-free). So best to always use SAC305 and the higher temperatures belong to this.

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free solder alloy Philips SAC305 with order code 0622 149 00106. If lead-free solder-paste is required, please contact the manufacturer of your solder-equipment. In general use of solder-paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free solder alloy. The solder tool must be able
 - To reach at least a solder-temperature of 400°C,
 - To stabilize the adjusted temperature at the solder-tip
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature around 360°C is reached and stabilized at the solder joint. Heating-time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C otherwise wear-out of tips will rise drastically and flux-fluid will be destroyed. To avoid wear-out of tips switch off un-used equipment, or reduce heat.
- Mix of lead-free solder alloy / parts with leaded solder alloy / parts is possible but PHILIPS recommends strongly to avoid mixed solder alloy types (leaded and lead-free).
If one cannot avoid or does not know whether product is lead-free, clean carefully the solder-joint from old solder alloy and re-solder with new solder alloy (SAC305).
- Use only original spare-parts listed in the Service-Manuals. Not listed standard-material (commodities) has to be purchased at external companies.
- **Special information for BGA-ICs:**
 - always use the 12nc-recognizable soldering temperature profile of the specific BGA (for de-soldering always use the lead-free temperature profile, in case of doubt)
 - lead free BGA-ICs will be delivered in so-called 'drypackaging' (sealed pack including a silica gel pack) to protect the IC against moisture. After opening, dependent of MSL-level seen on indicator-label in the bag, the BGA-IC possibly still has to be baked dry. (MSL=Moisture Sensitivity Level). This will be communicated via AYS-website.
 - Do not re-use BGAs at all.
- For sets produced before 1.1.2005 (except products of 2004), containing leaded solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website www.atyourservice.ce.Philips.com you find more information to:
 - BGA-de-/soldering (+ baking instructions)
 - Heating-profiles of BGAs and other ICs used in Philips-sets

You will find this and more technical information within the 'imagazine', chapter 'workshop news'.

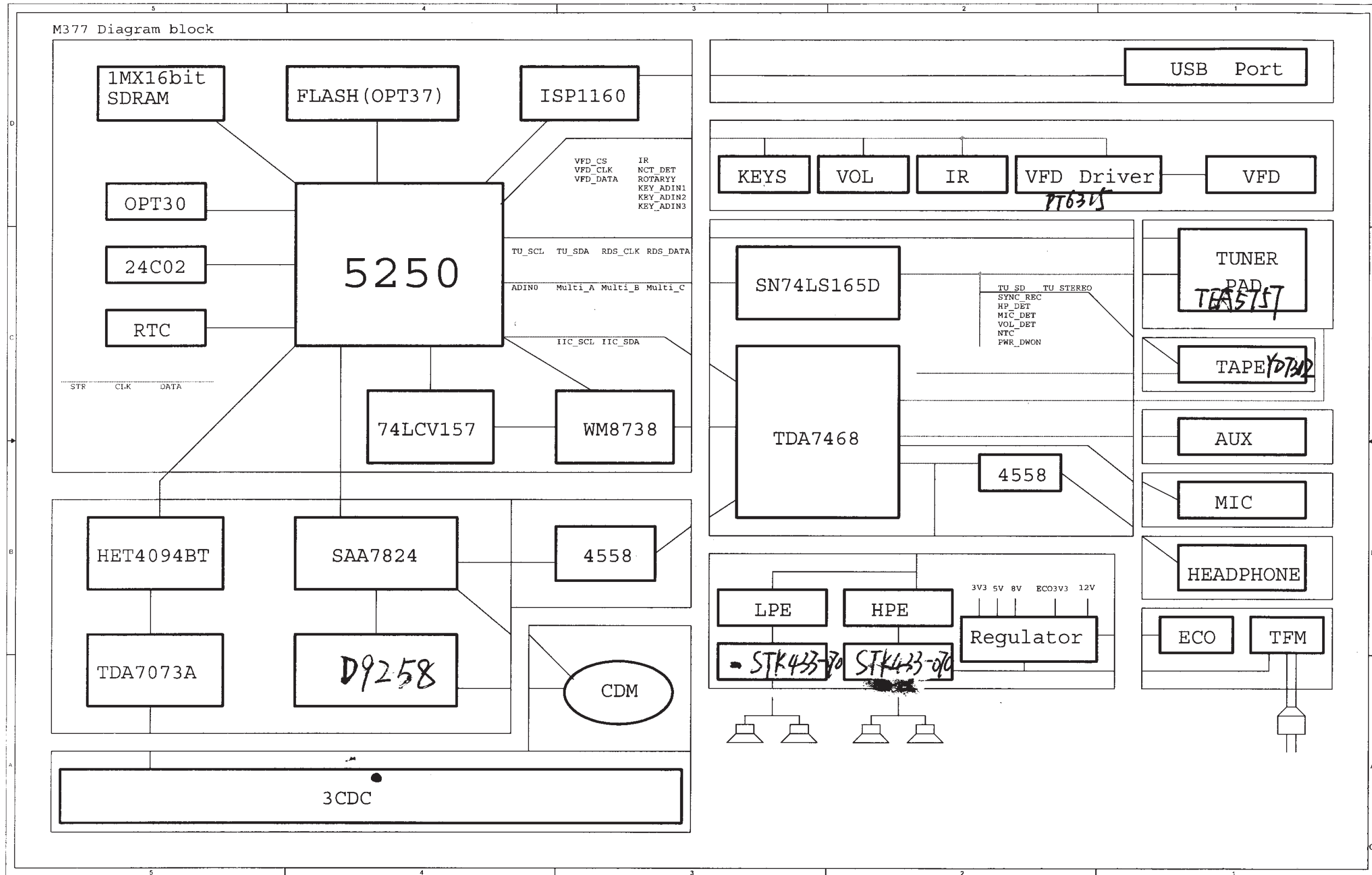
For additional questions please contact your local repair-helpdesk.

SERVICE INSTRUCTION

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

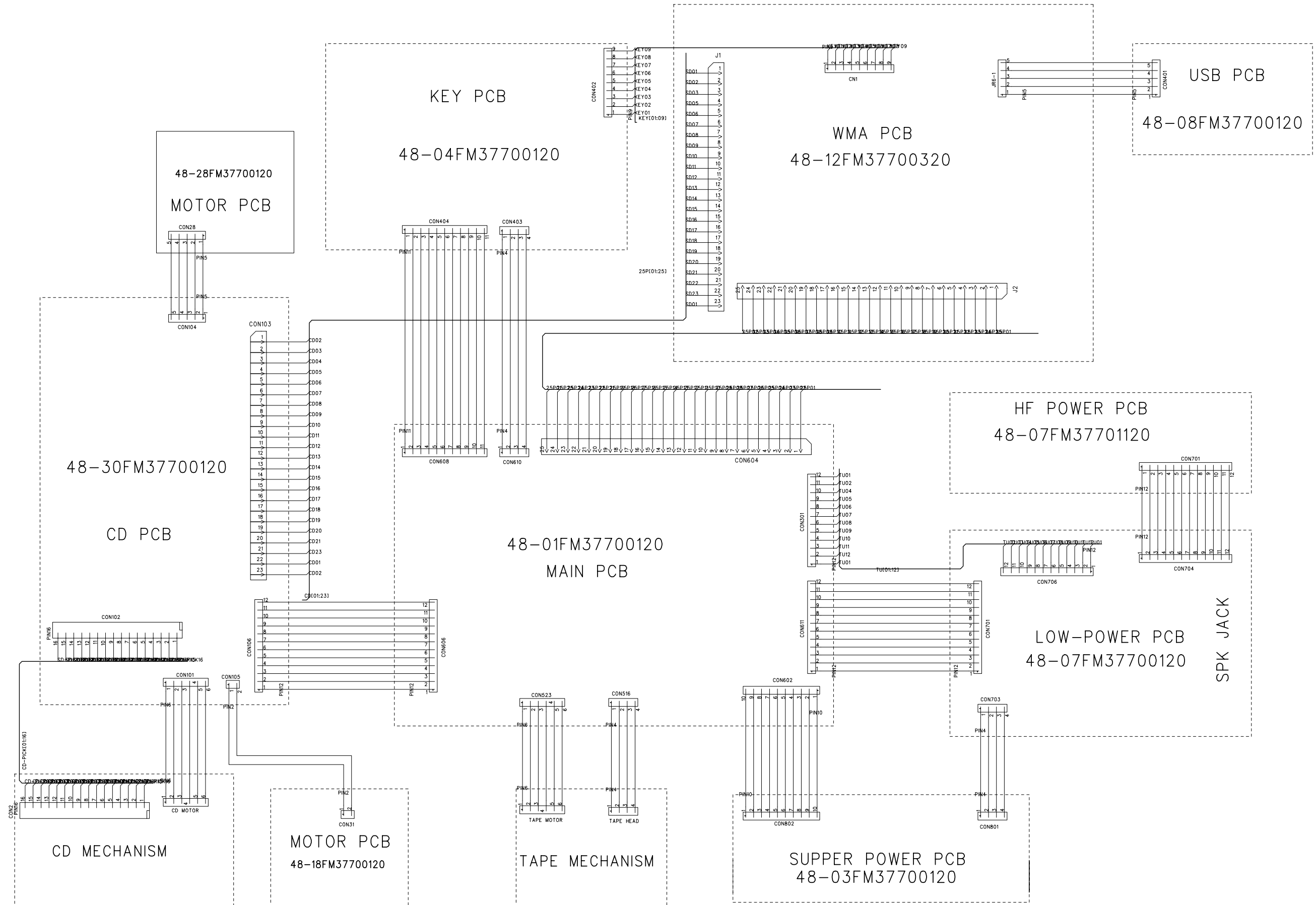
- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the AC Power lead for external damage.
- Check the strain relief of the AC Power cord for proper function.
- Check the electrical DC resistance between the AC Power Plug and the secondary side (only for sets which have a AC Power isolated power supply):
 1. Unplug the AC Power cord and connect a wire between the two pins of the AC Power plug.
 2. Set the AC Power switch to the "on" position (keep the AC Power cord unplugged!).
 3. Measure the resistance value between the pins of the AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be larger than 4.5 Mohm (For U.S. it should be between 4.2 Mohm and 12 Mohm).
 4. Switch "off" the set, and remove the wire between the two pins of the AC Power plug.
- Check the cabinet for defects, to avoid touching of any inner parts by the customer.

SET BLOCK DIAGRAM



Code>

SET WIRING DIAGRAM

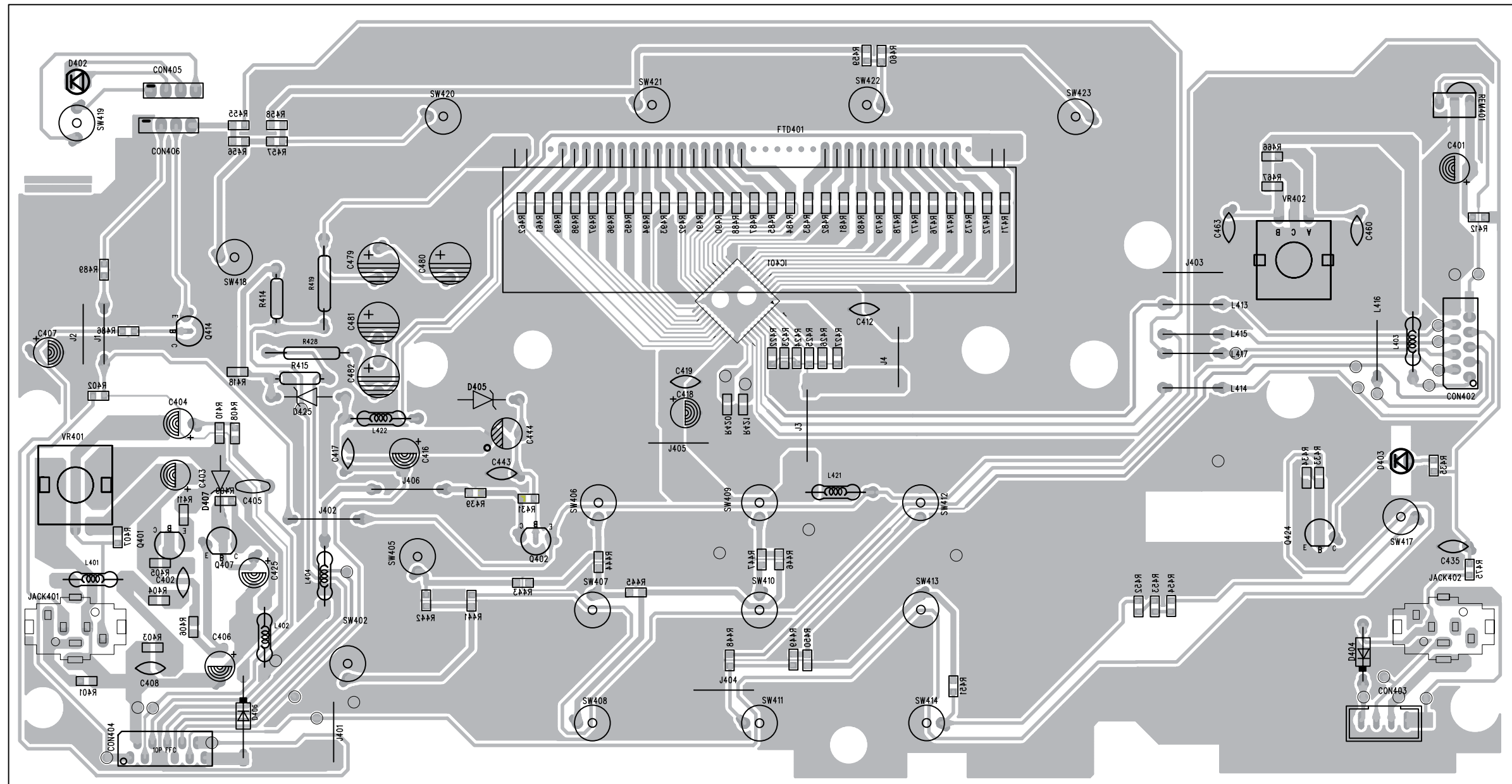


FRONT & USB BOARD

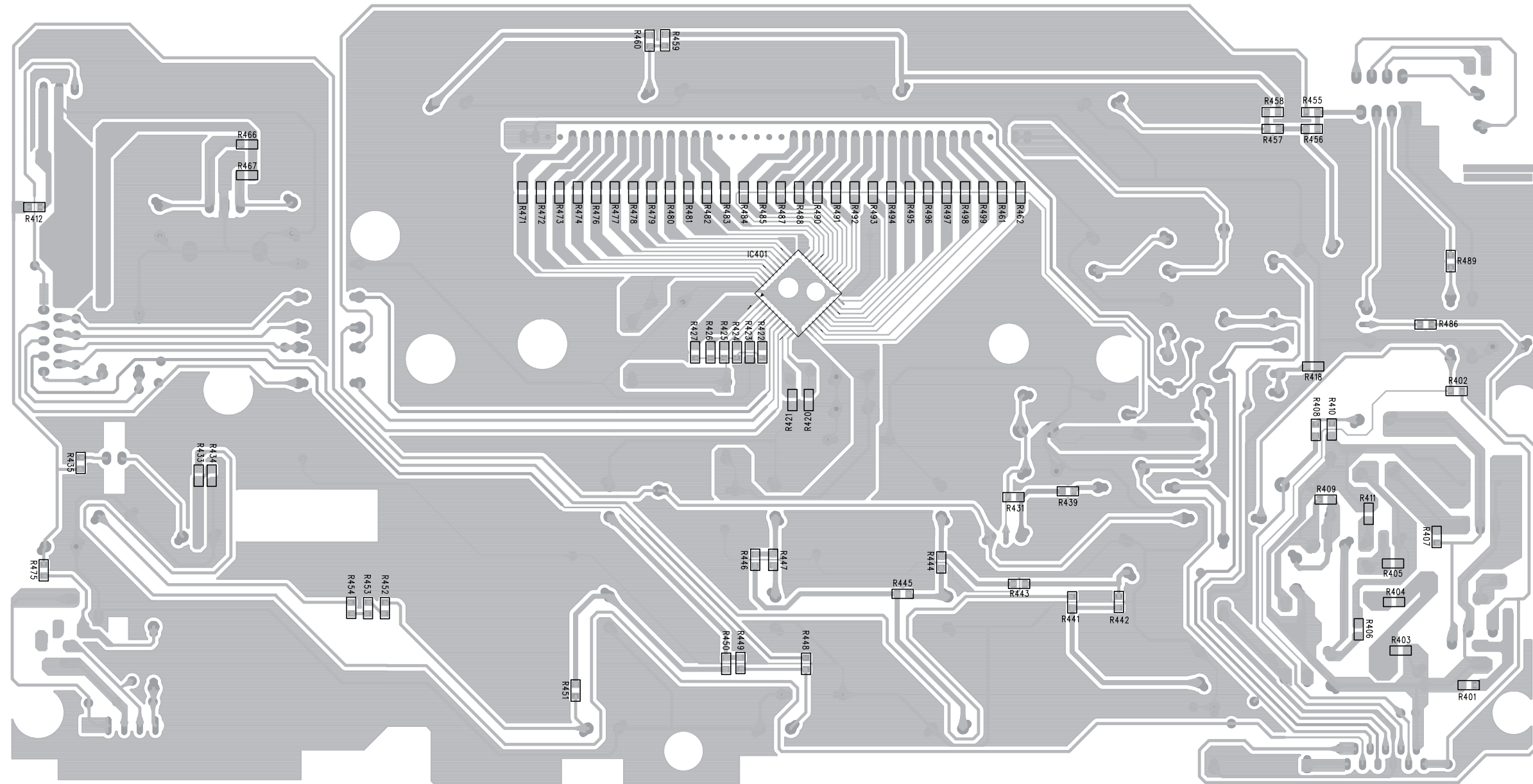
TABLE OF CONTENTS

Front PCB - Layout Top View	6-2
Front PCB - Layout Bottom View	6-3
Front & USB PCB - Circuit Diagram	6-4
USB PCB - Layout	6-5

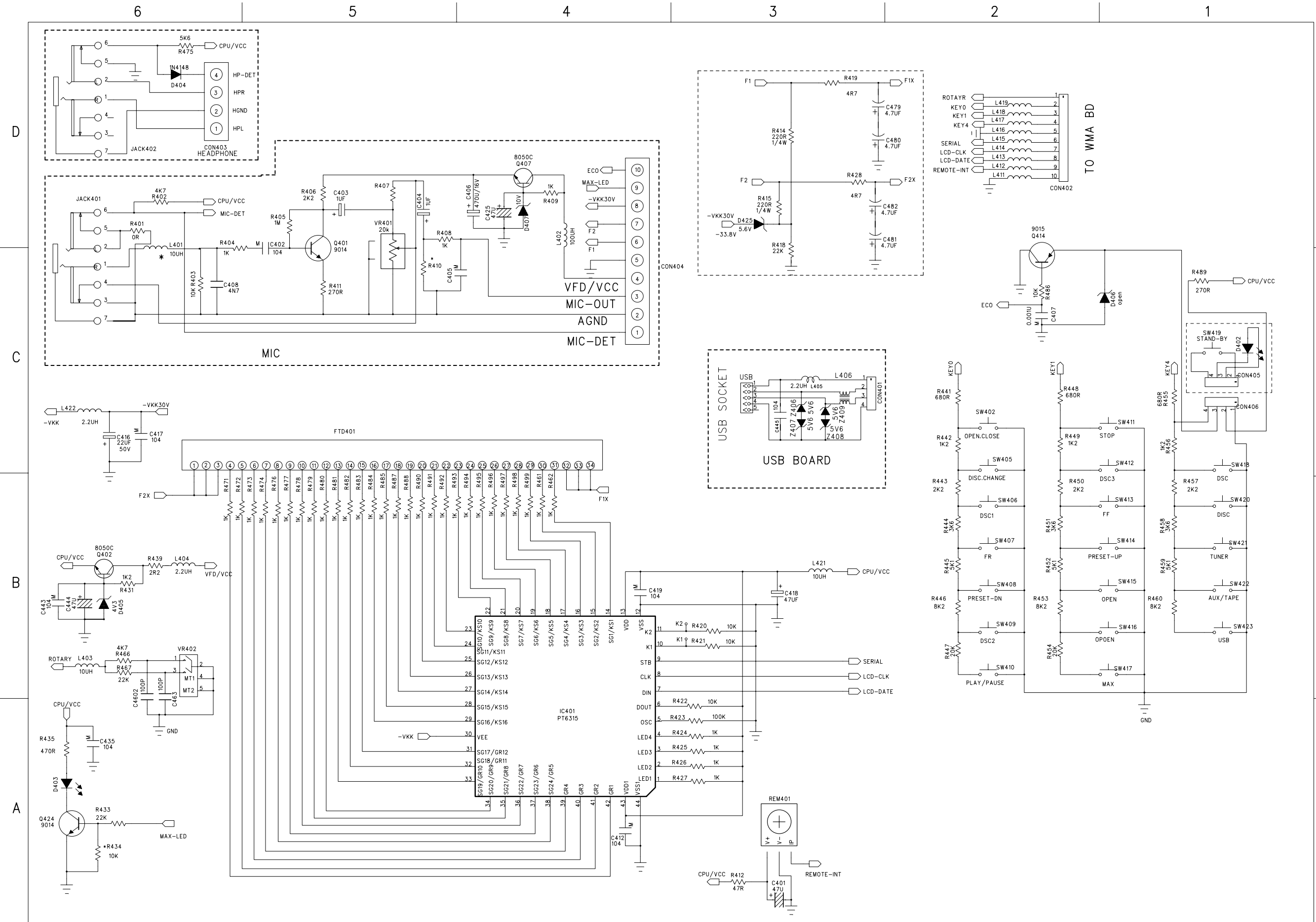
PCB LAYOUT - FRONT BOARD (TOP VIEW)



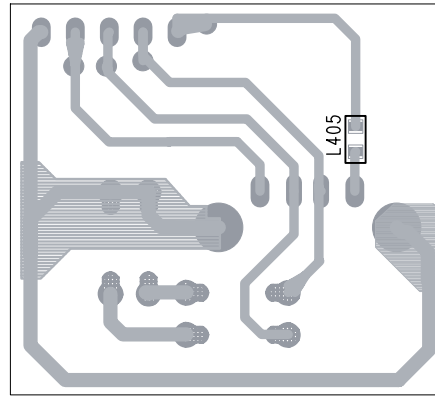
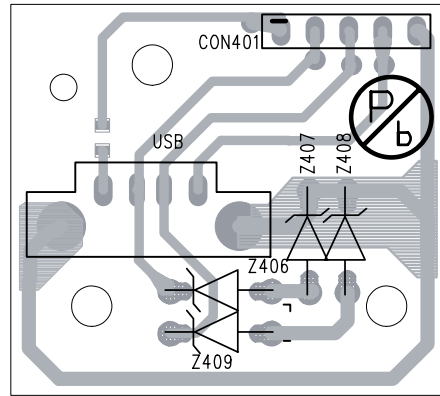
PCB LAYOUT - FRONT BOARD (BOTTOM VIEW)



CIRCUIT DIAGRAM - FRONT BOARD



PCB LAYOUT - USB BOARD

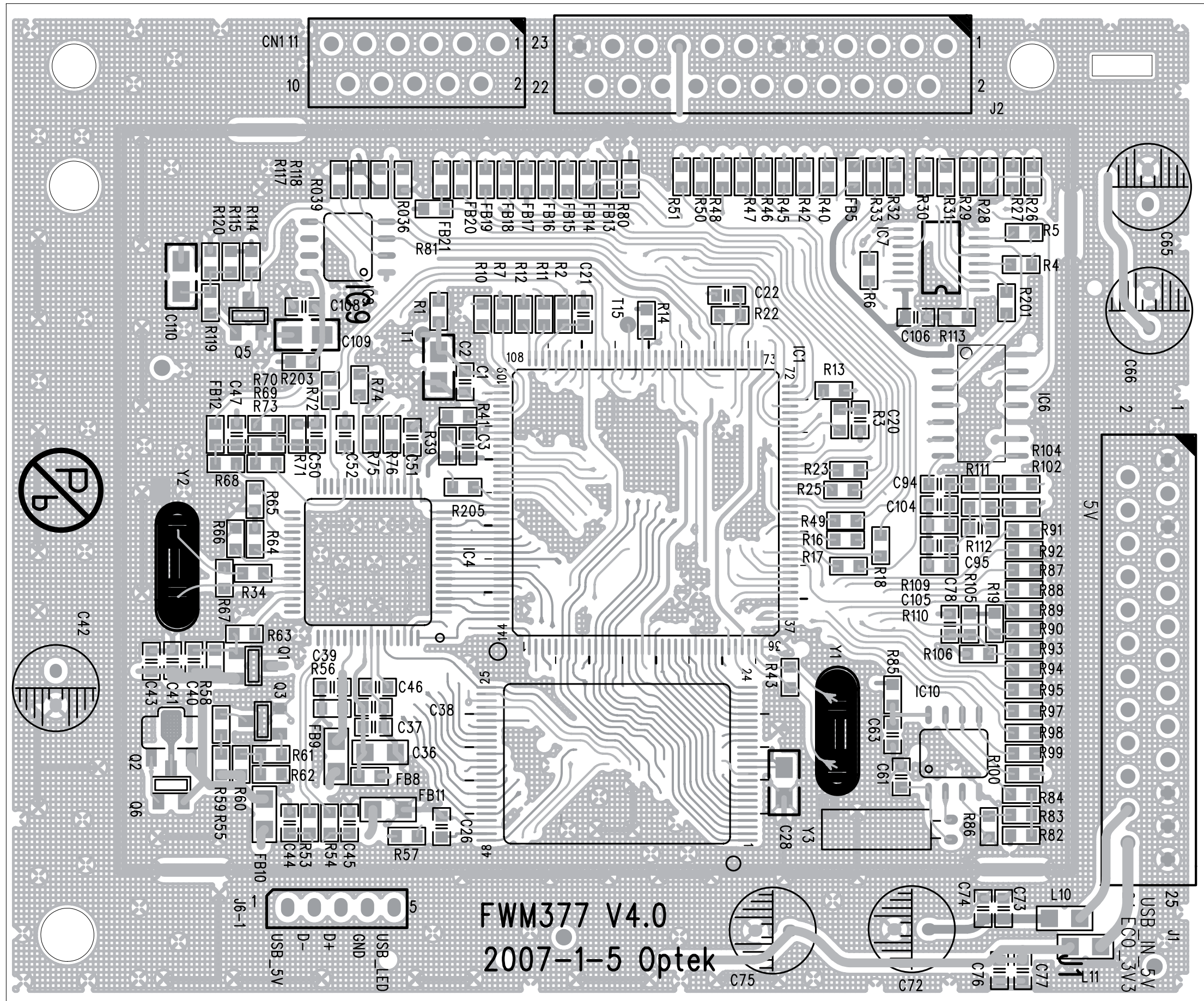


CPU/WMA BOARD

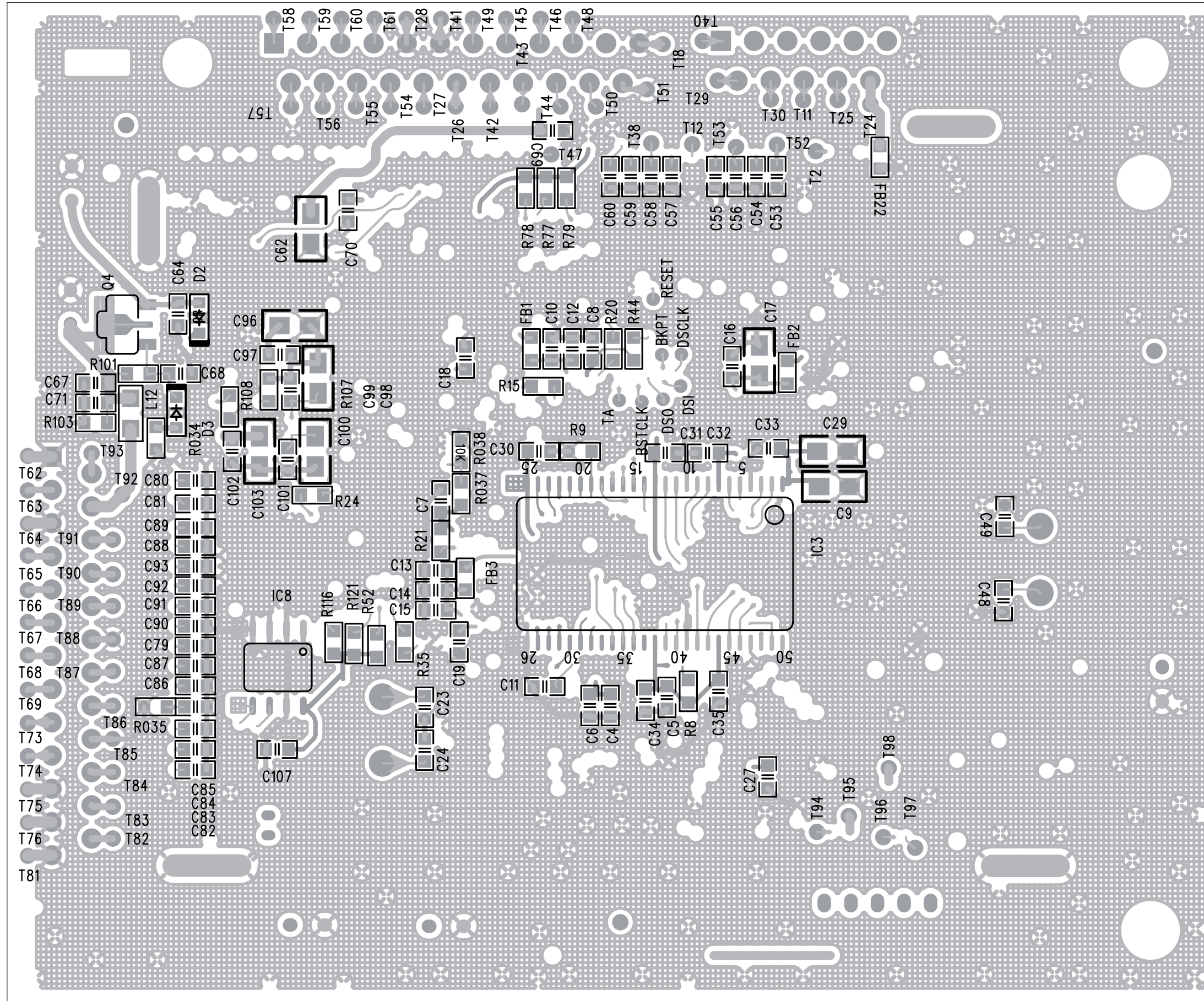
TABLE OF CONTENTS

CPU/WMA PCB - Layout Top View 5-2
CPU/WMA PCB - Layout Bottom View 5-3
CPU/WMA PCB - Circuit Diagram 5-4 to 5-10

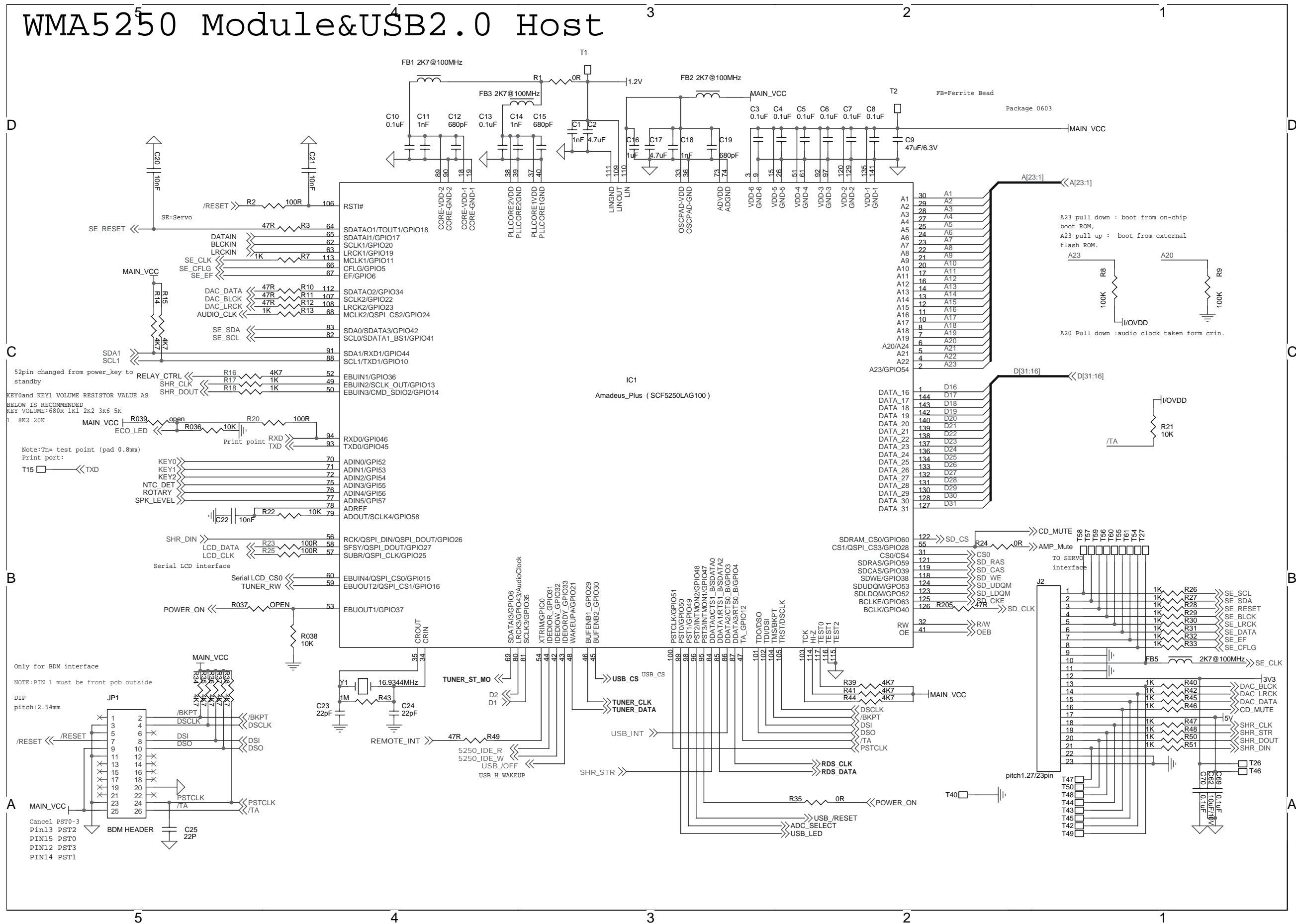
PCB LAYOUT - CPU/WMA BOARD (TOP VIEW)



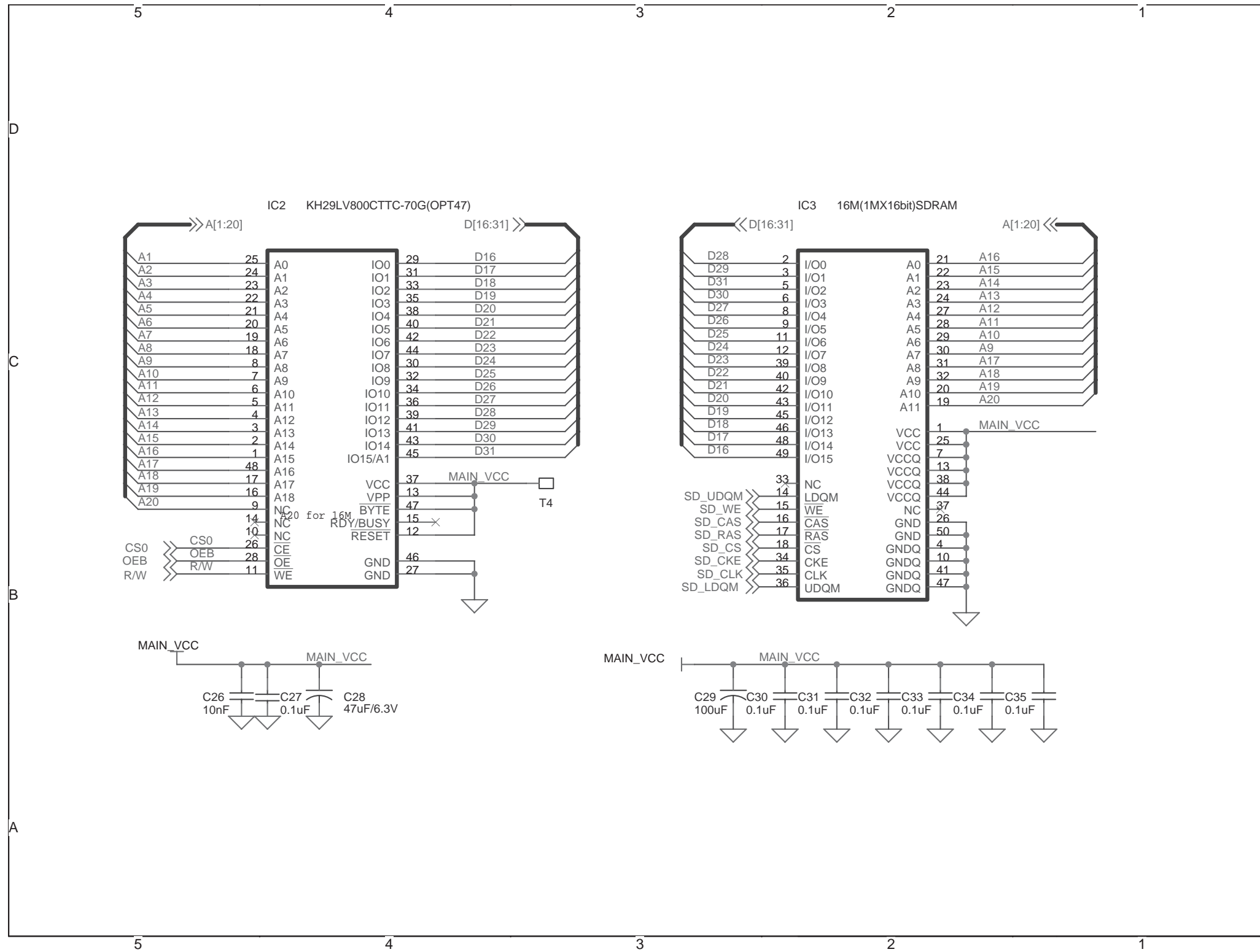
PCB LAYOUT - CPU/WMA BOARD (BOTTOM VIEW)



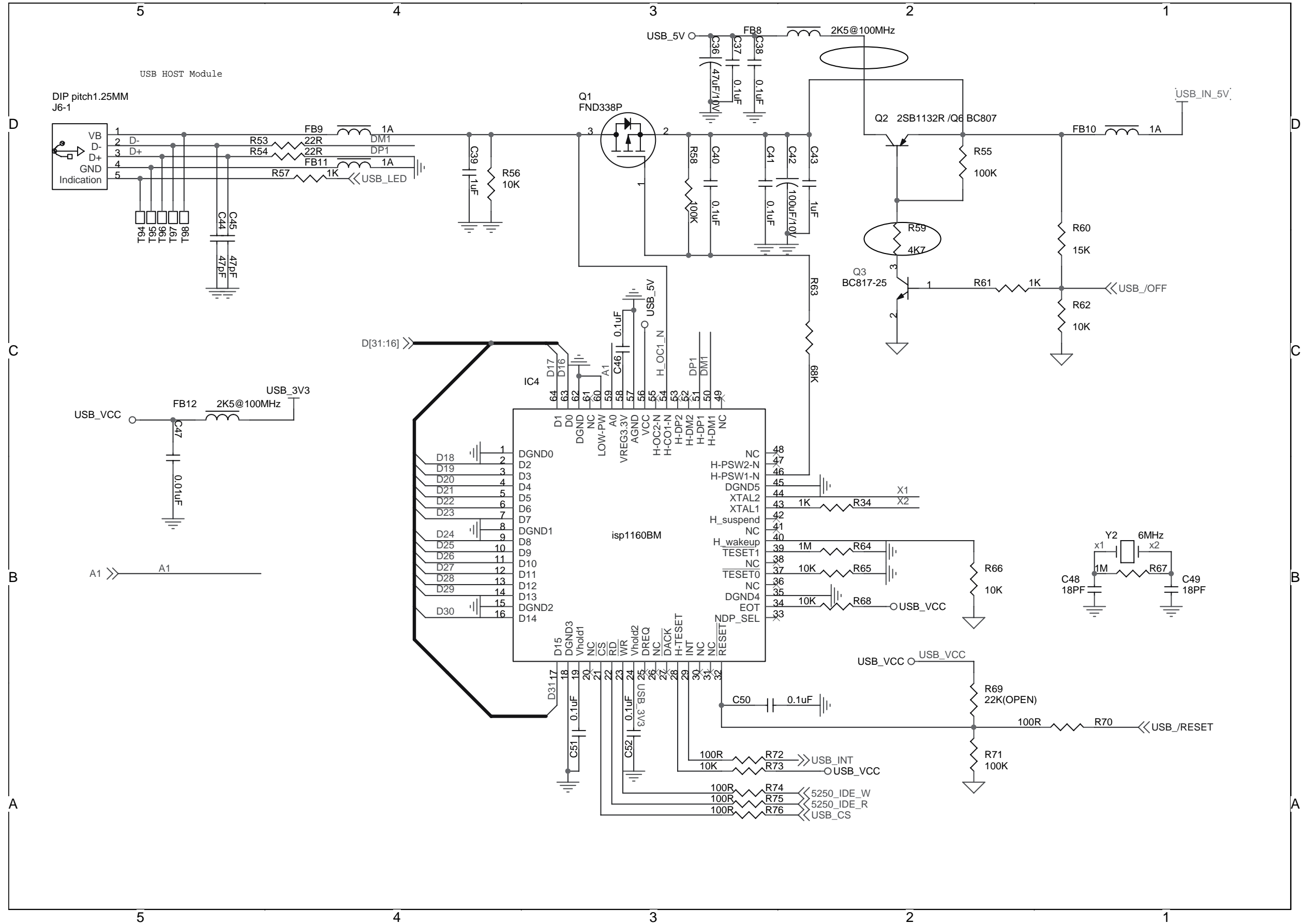
CIRCUIT DIAGRAM - CPU/WMA BOARD



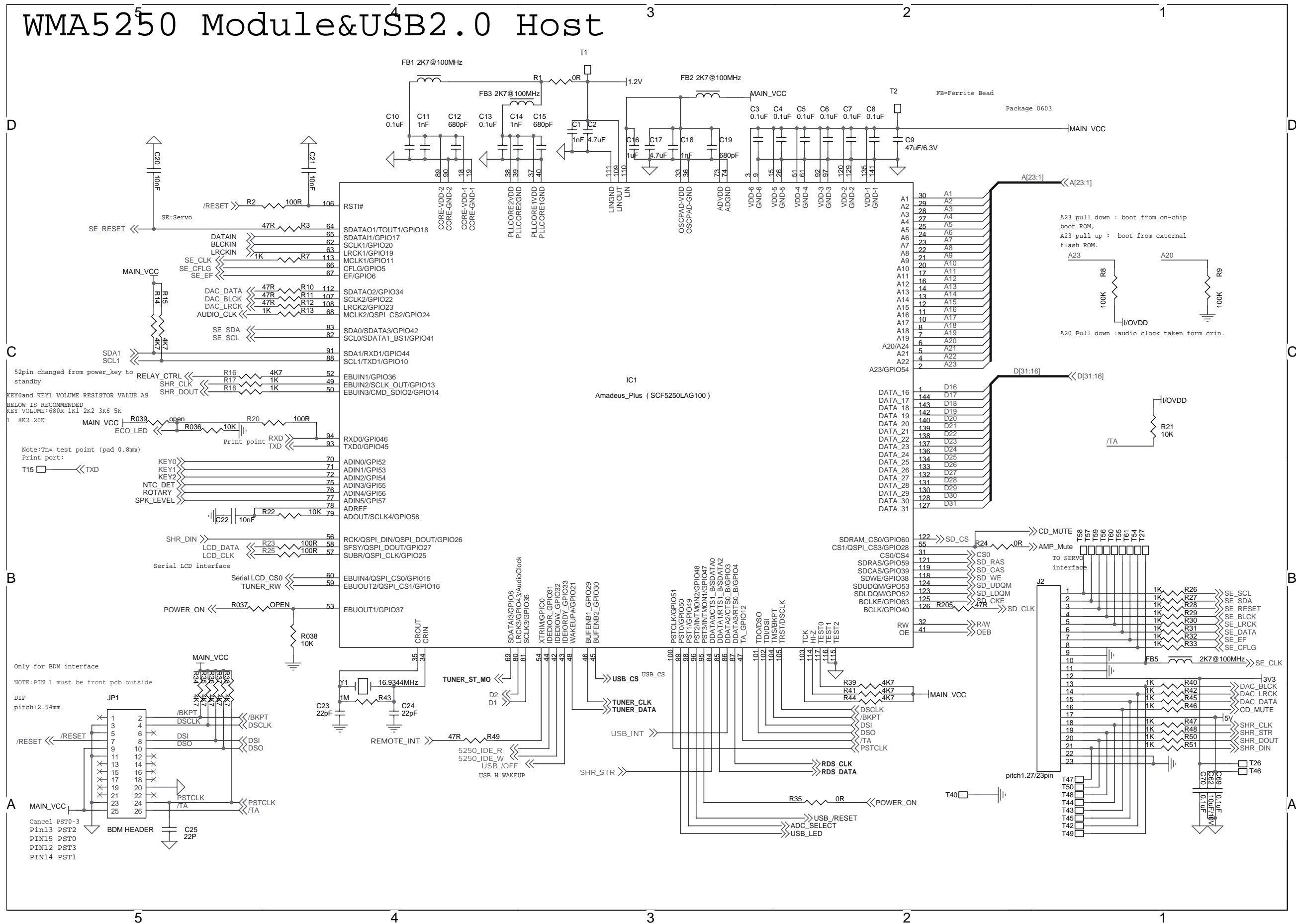
CIRCUIT DIAGRAM - CPU/WMA BOARD



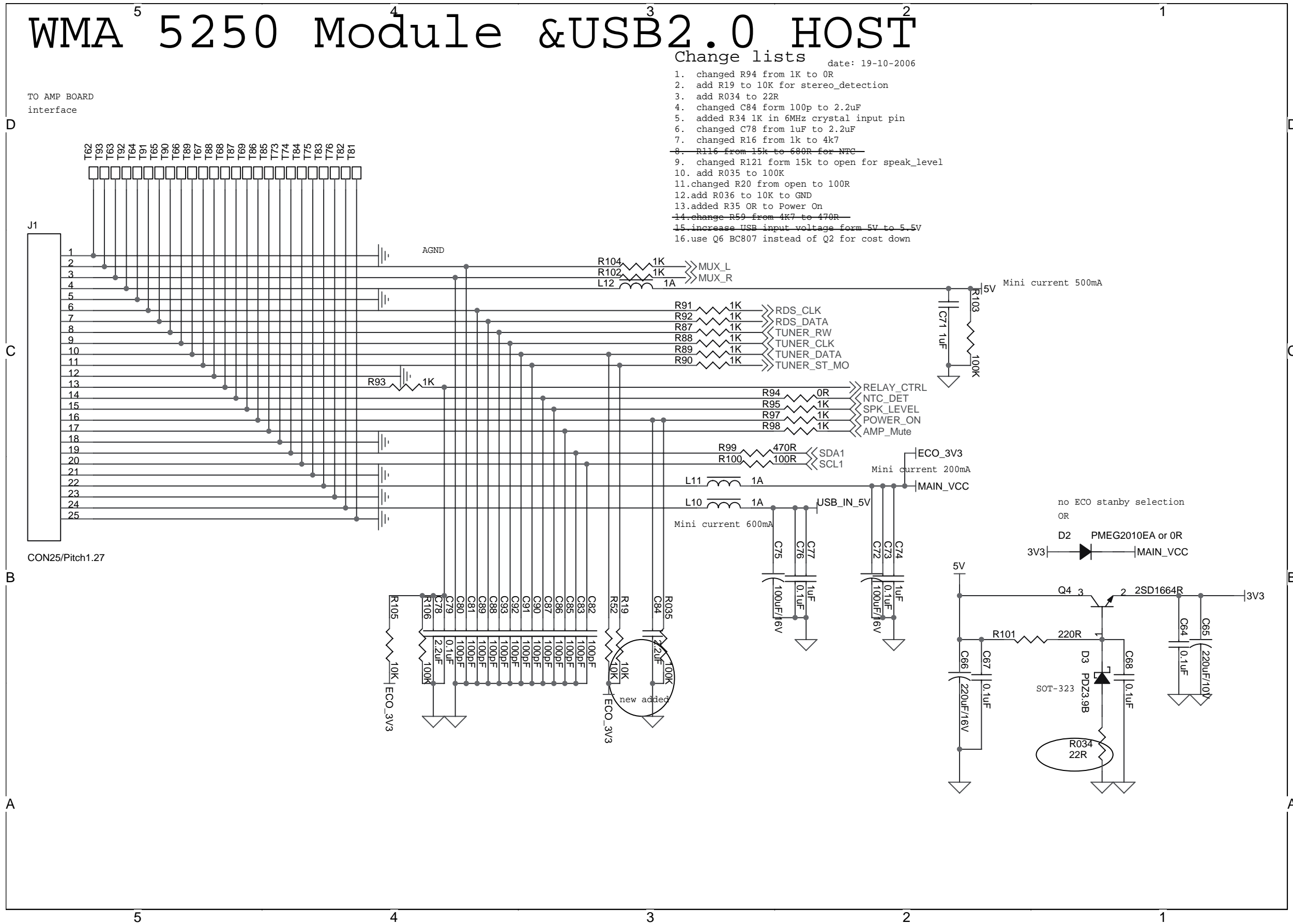
CIRCUIT DIAGRAM - CPU/WMA BOARD



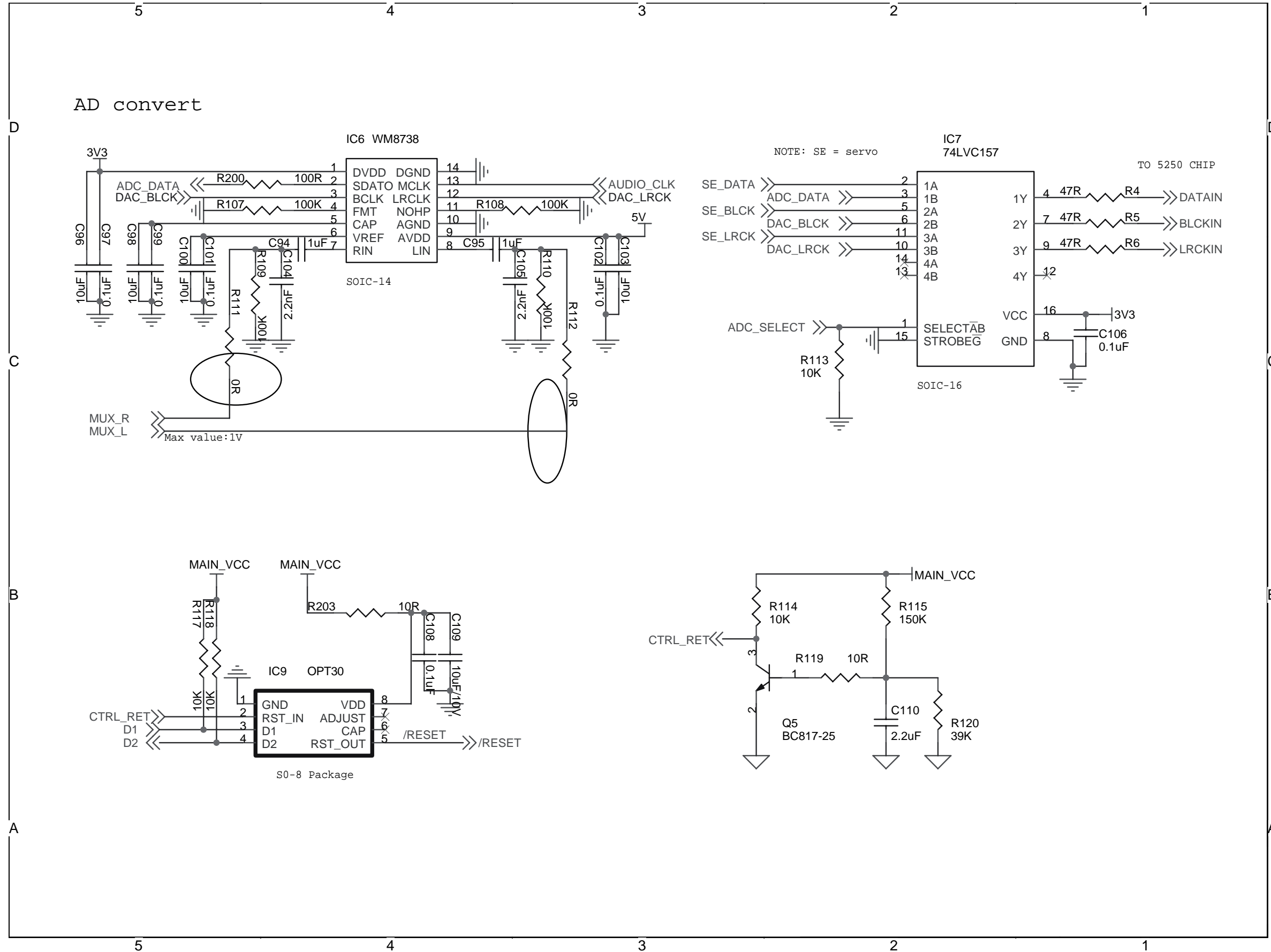
CIRCUIT DIAGRAM - CPU/WMA BOARD



CIRCUIT DIAGRAM - CPU/WMA BOARD



CIRCUIT DIAGRAM - CPU/WMA BOARD

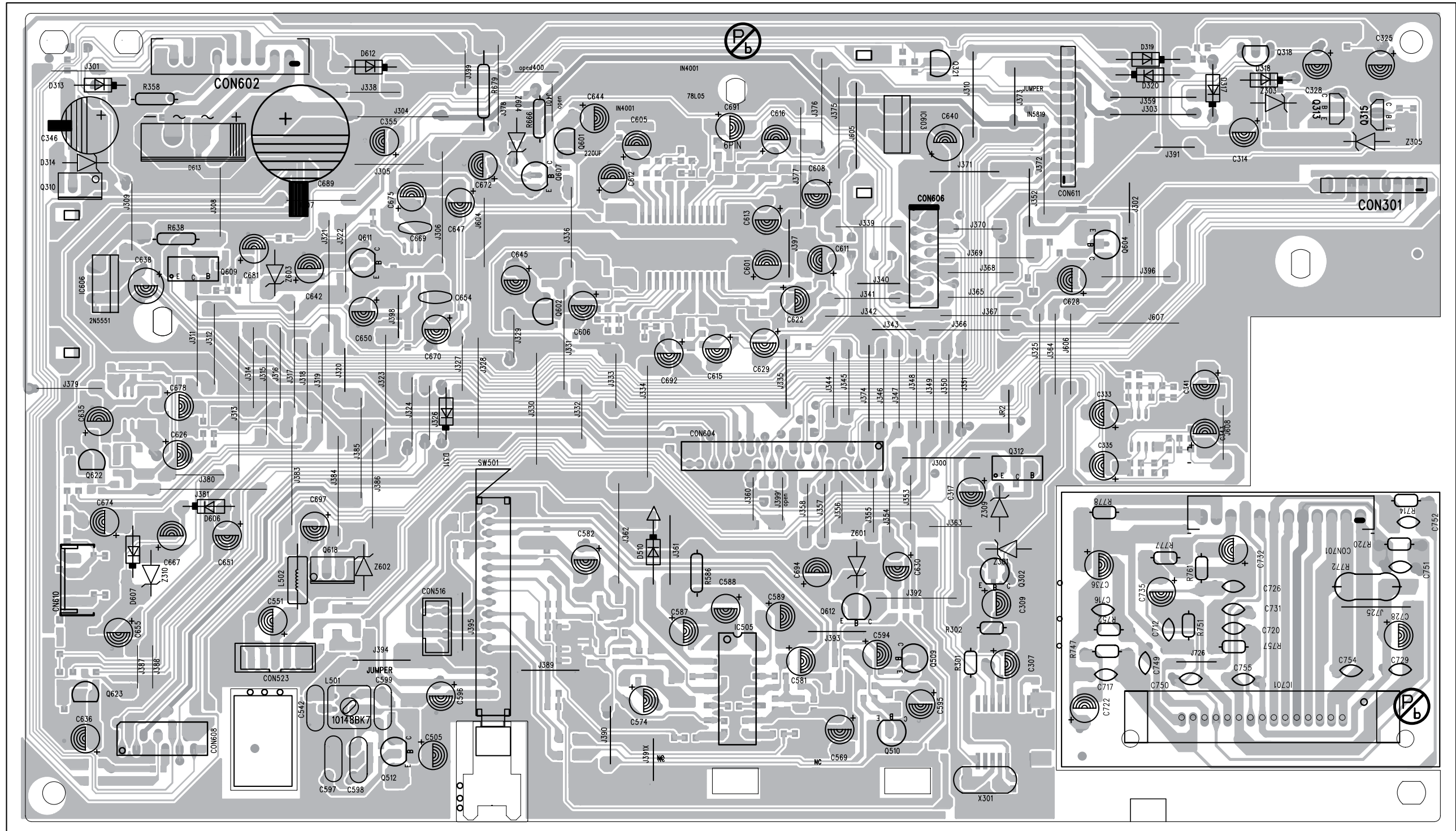


MAIN & POWER BOARD

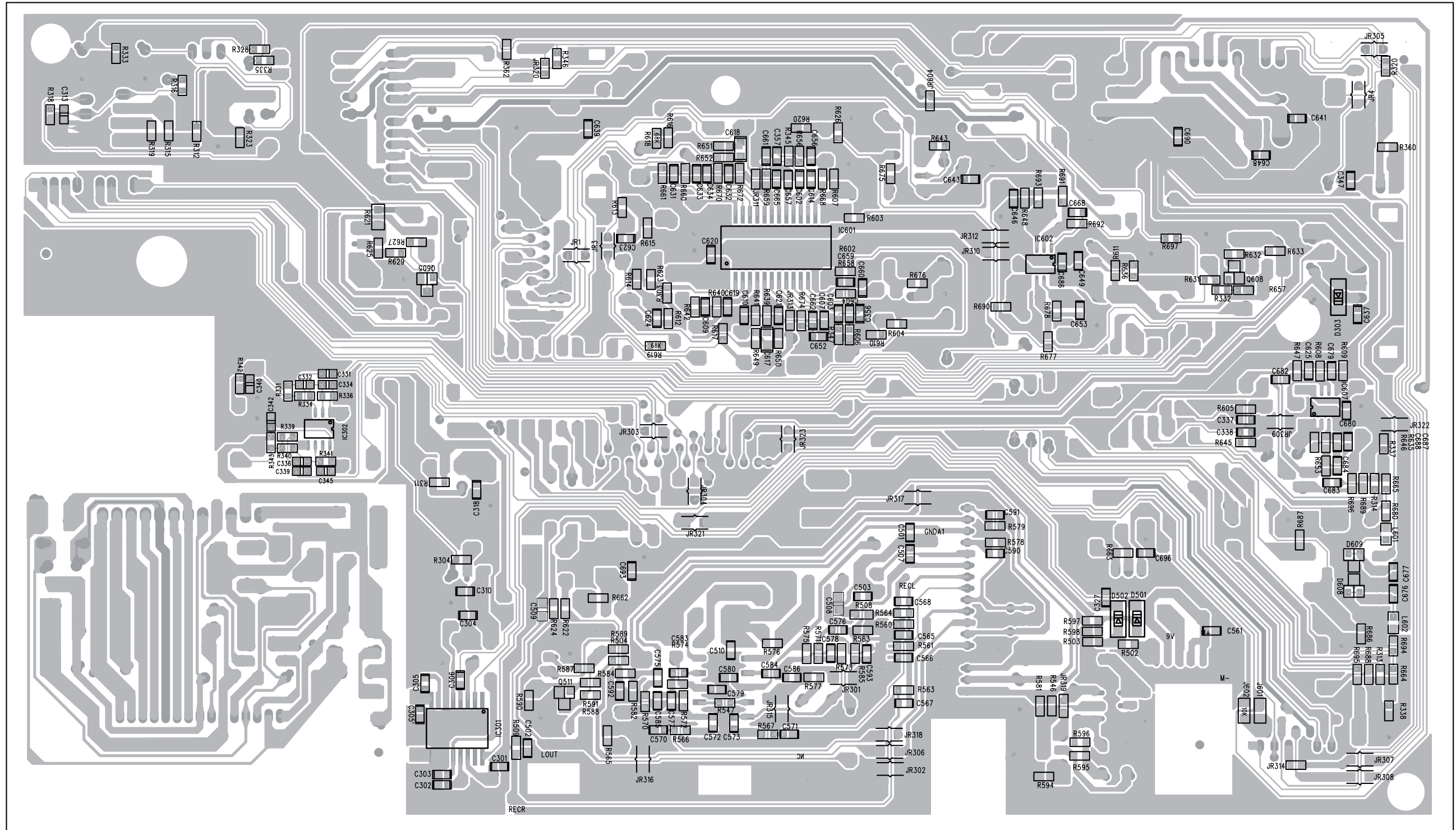
TABLE OF CONTENTS

Main & HF Power PCB - Layout Top View	6-2
Main & HF Power PCB - Layout Bottom View	6-3
HF Power PCB - Circuit Diagram	6-4
Main & Super Power PCB - Circuit Diagram	6-5
Super Power PCB - Layout Diagram.....	6-6
Tape Part - Circuit Diagram	6-7

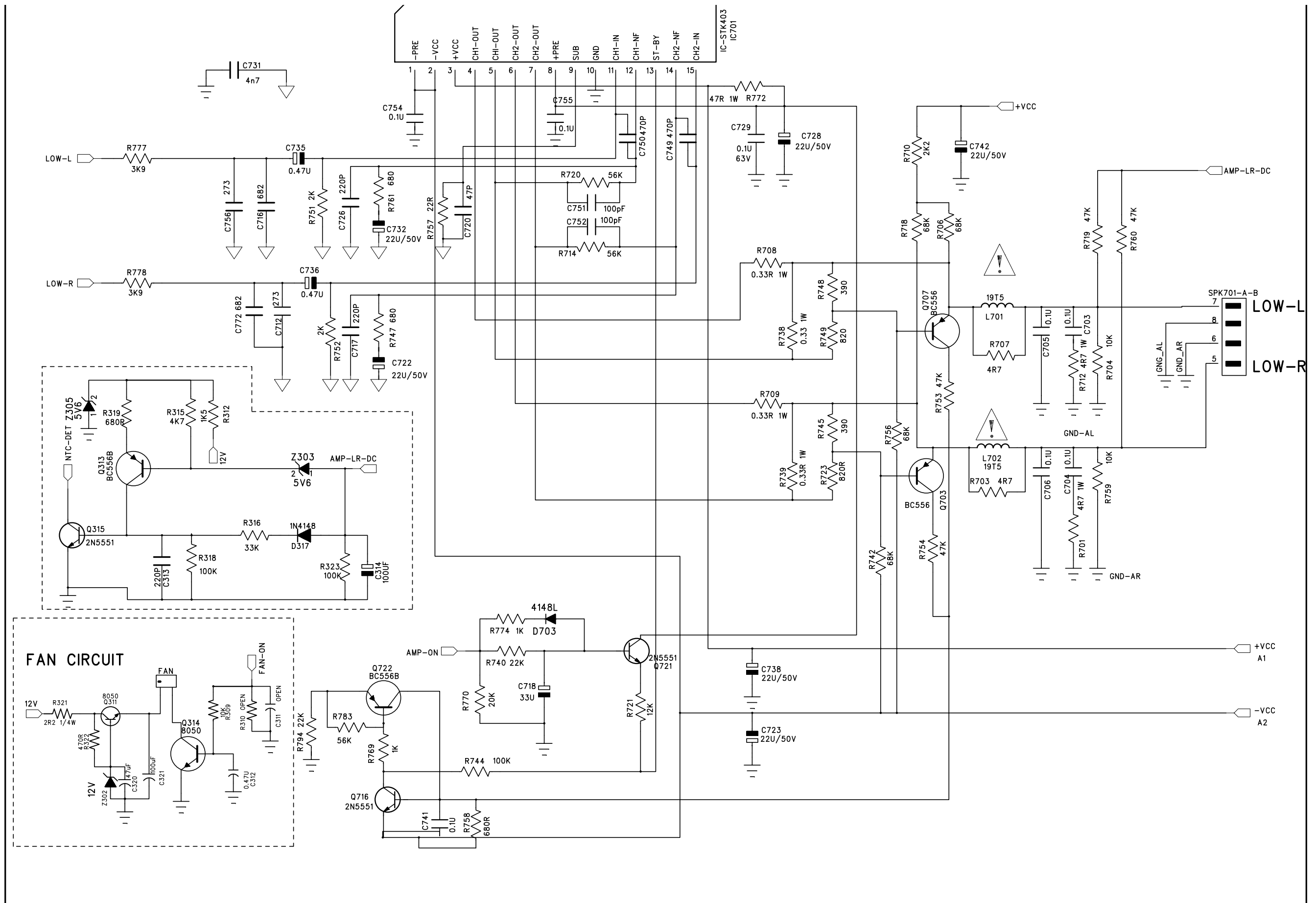
PCB LAYOUT - MAIN & HF POWER BOARD (TOP VIEW)



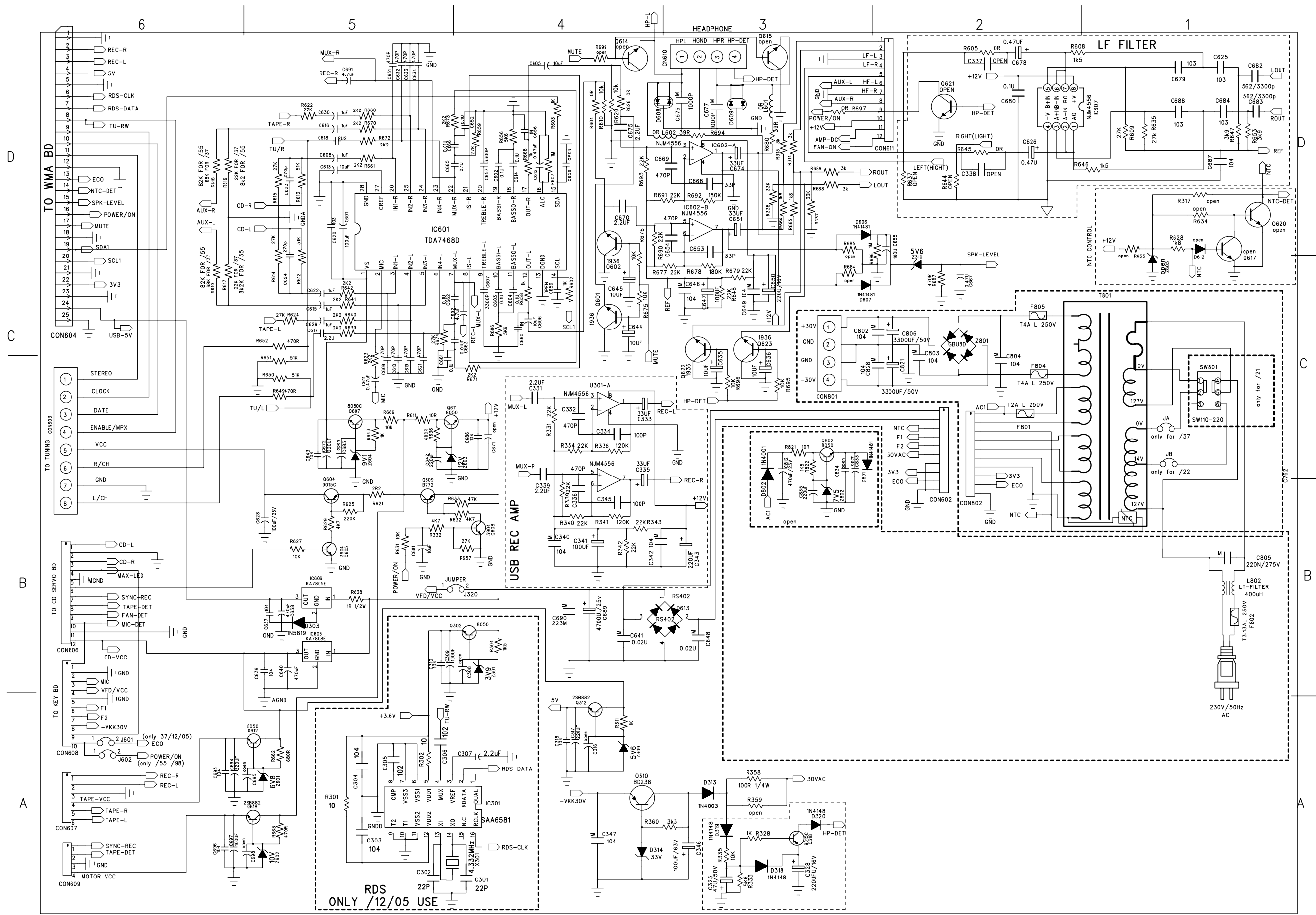
PCB LAYOUT - MAIN & HF POWER BOARD (BOTTOM VIEW)



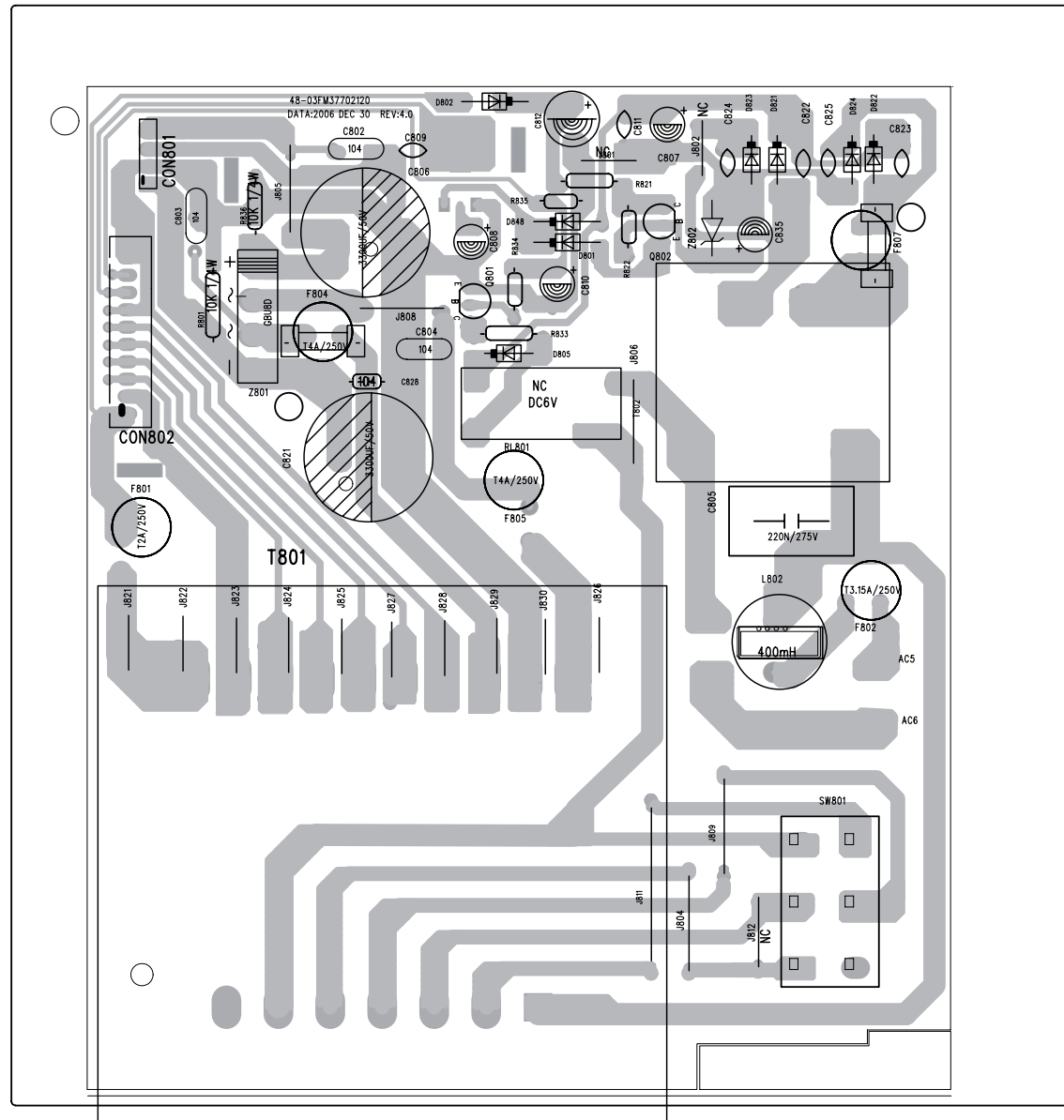
CIRCUIT DIAGRAM - HF POWER BOARD



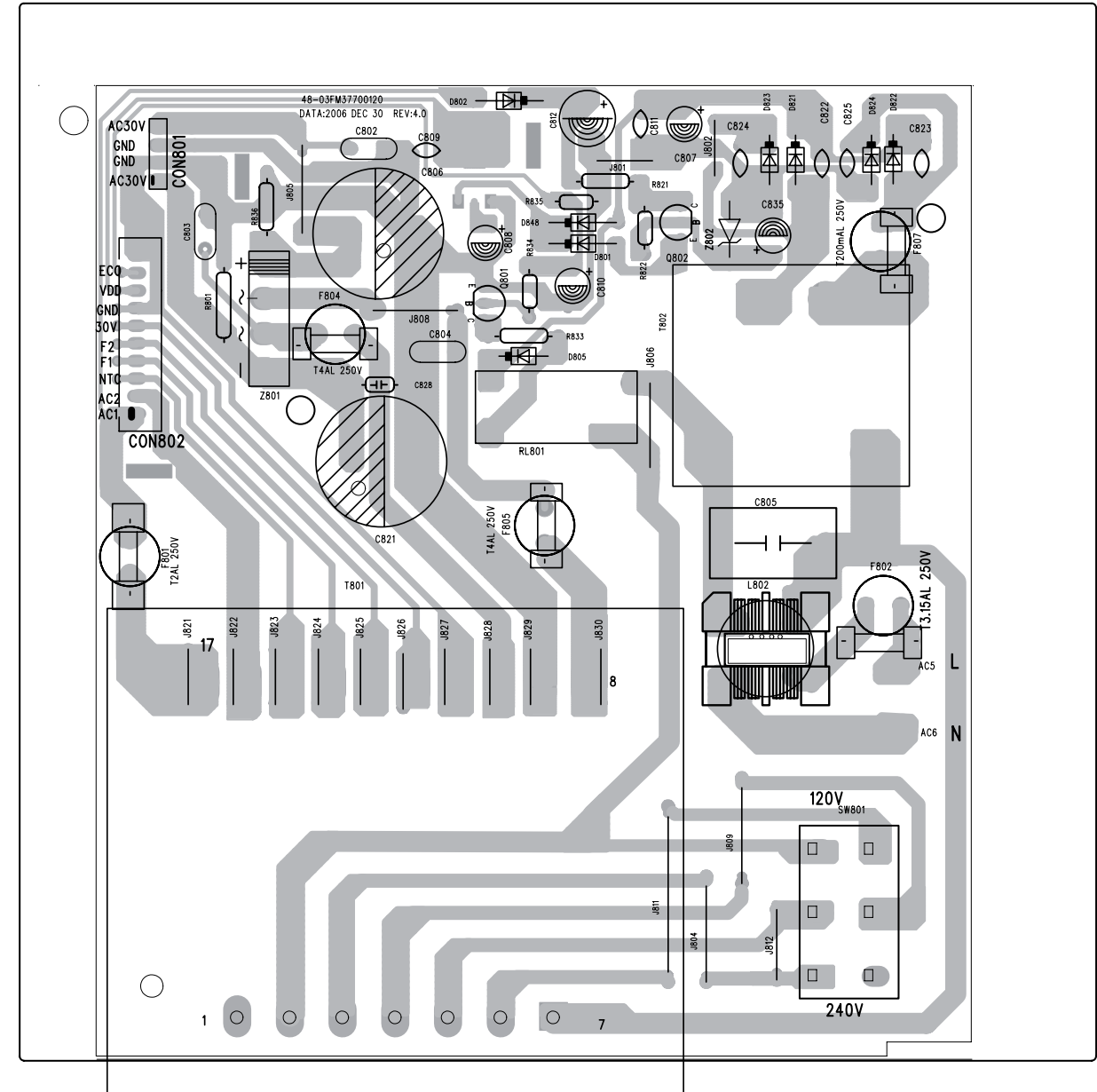
CIRCUIT DIAGRAM - MAIN & SUPER POWER BOARD



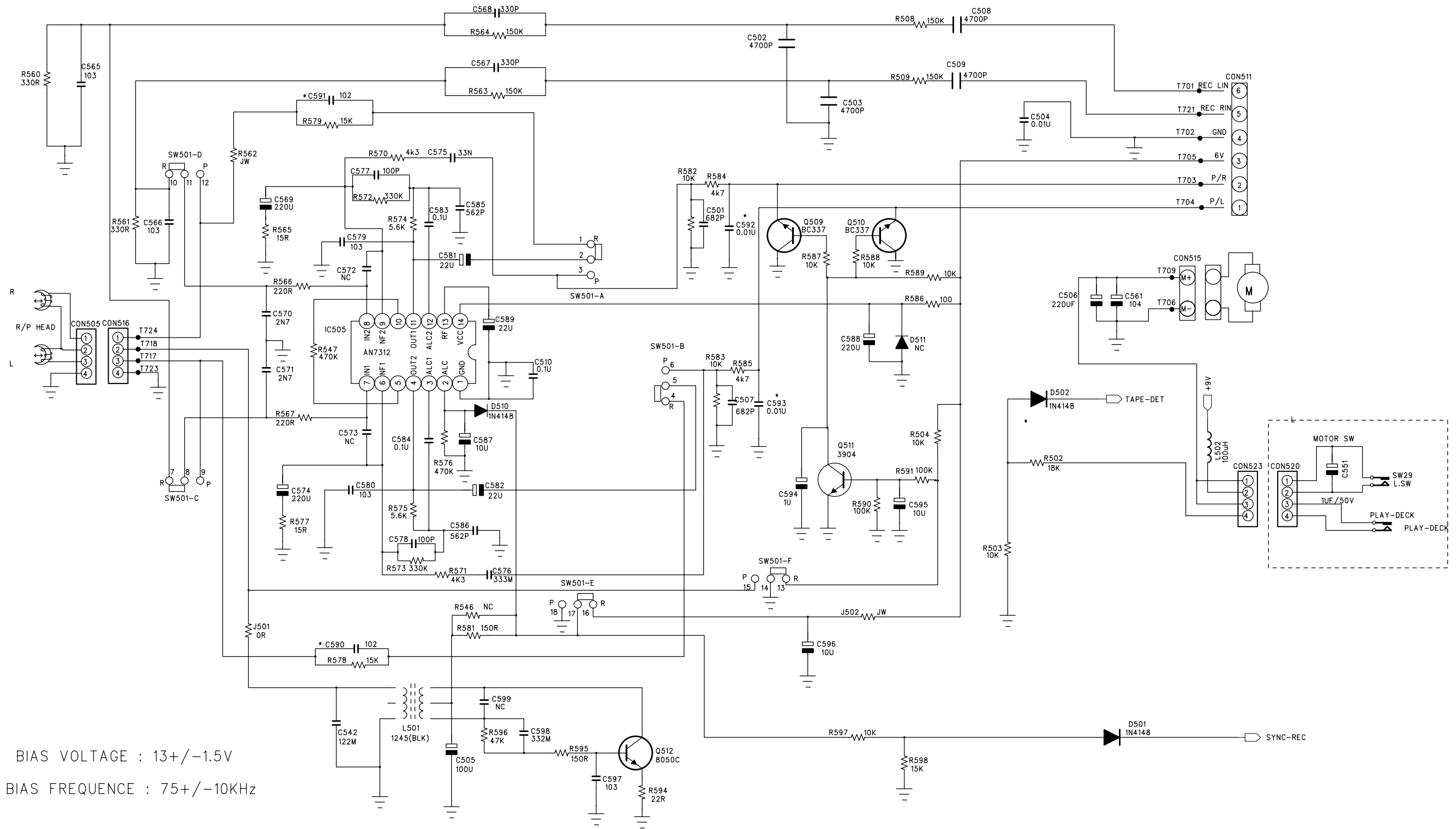
PCB LAYOUT - SUPER POWER BOARD (ONLY FOR /12/05)



PCB LAYOUT - SUPER POWER BOARD (ONLY FOR /55)



CIRCUIT DIAGRAM - TAPE PART



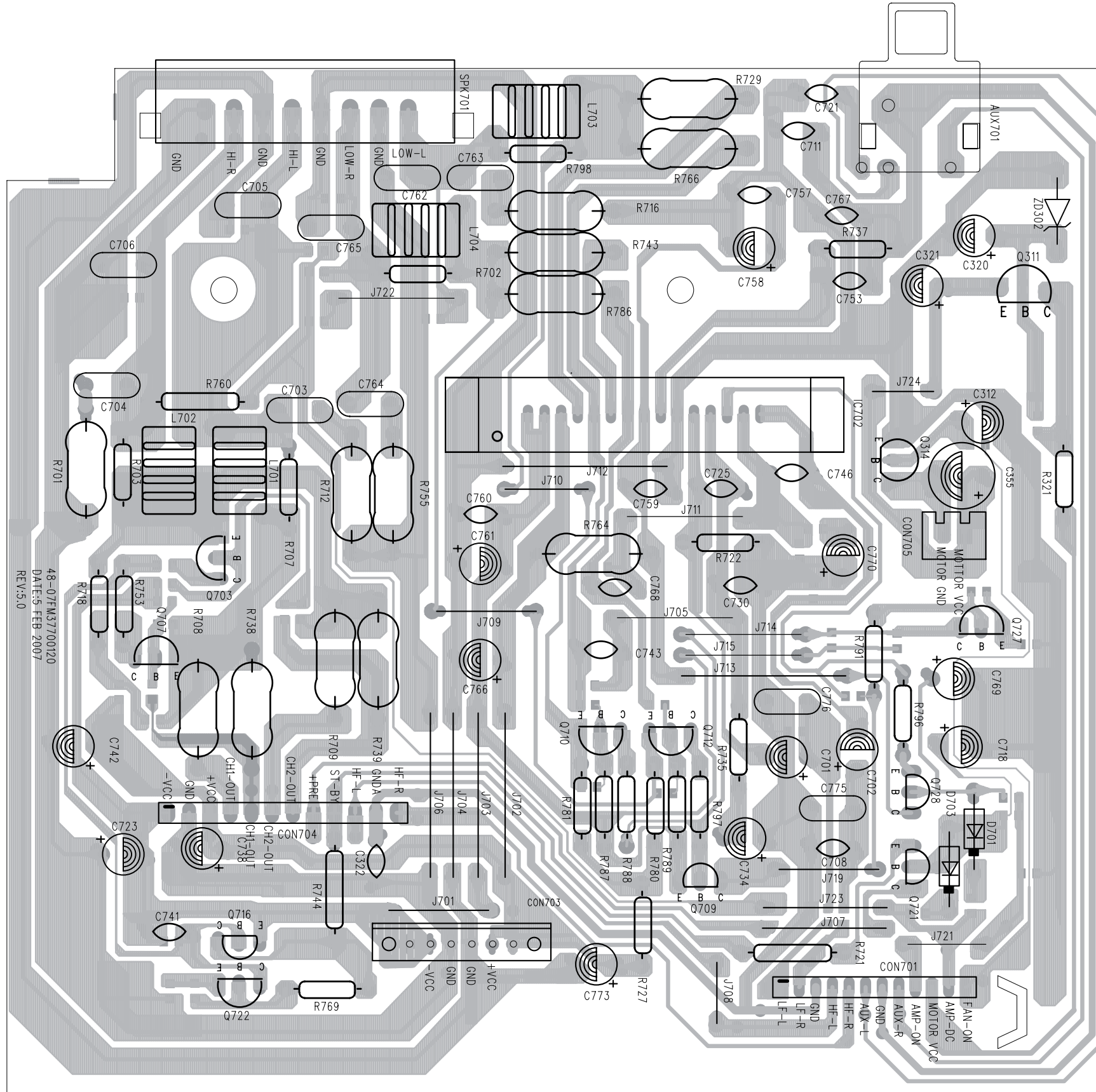
* FOR PROVISION ONLY

AMP (LOW POWER) BOARD

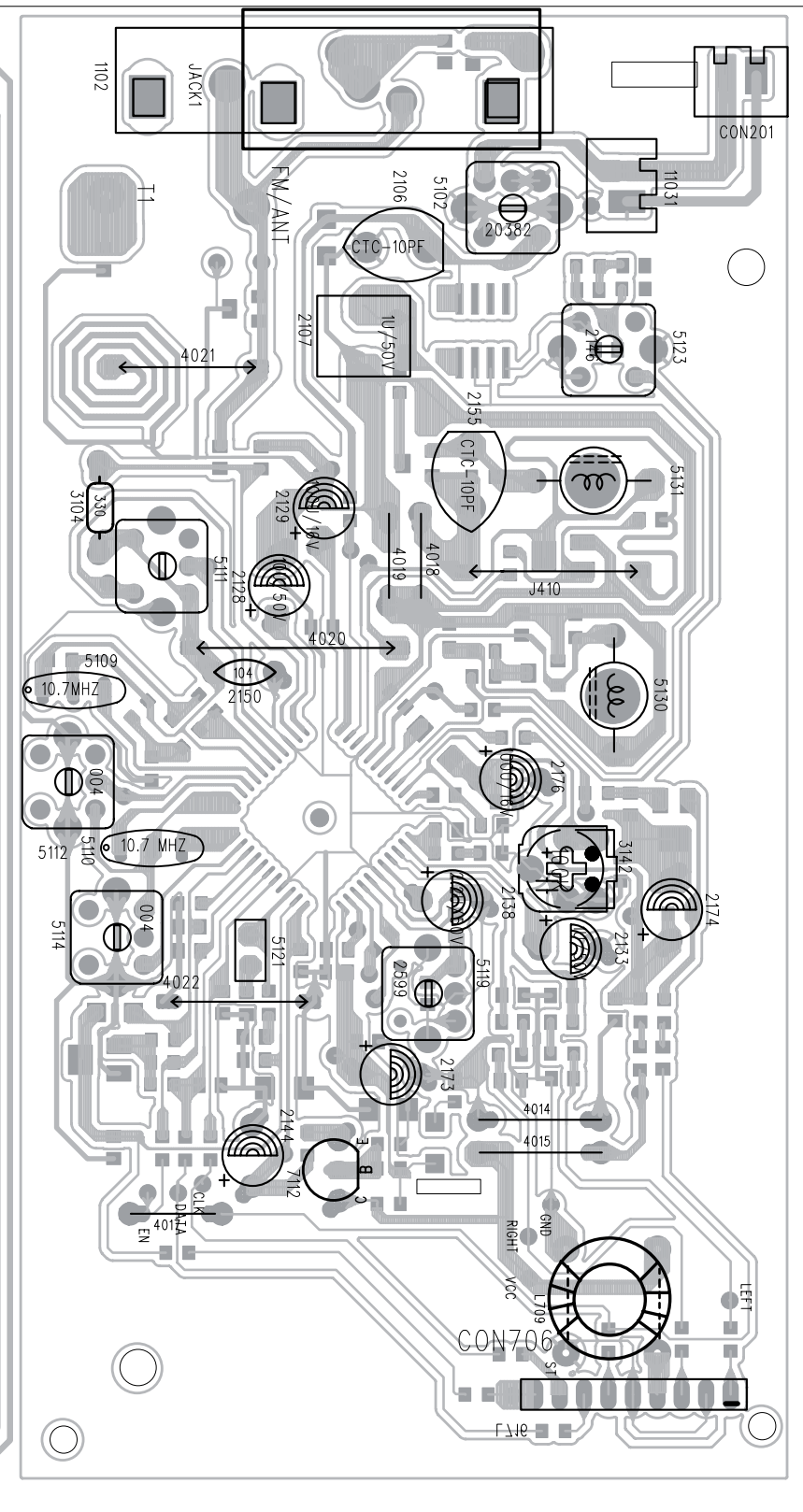
TABLE OF CONTENTS

AMP (Low Power) PCB - Layout Top View	7-2
AMP (Low Power) PCB - Layout Bottom View	7-3
AMP (Low Power) PCB - Circuit Diagram	7-4
Tuning Part - Circuit Diagram	7-5

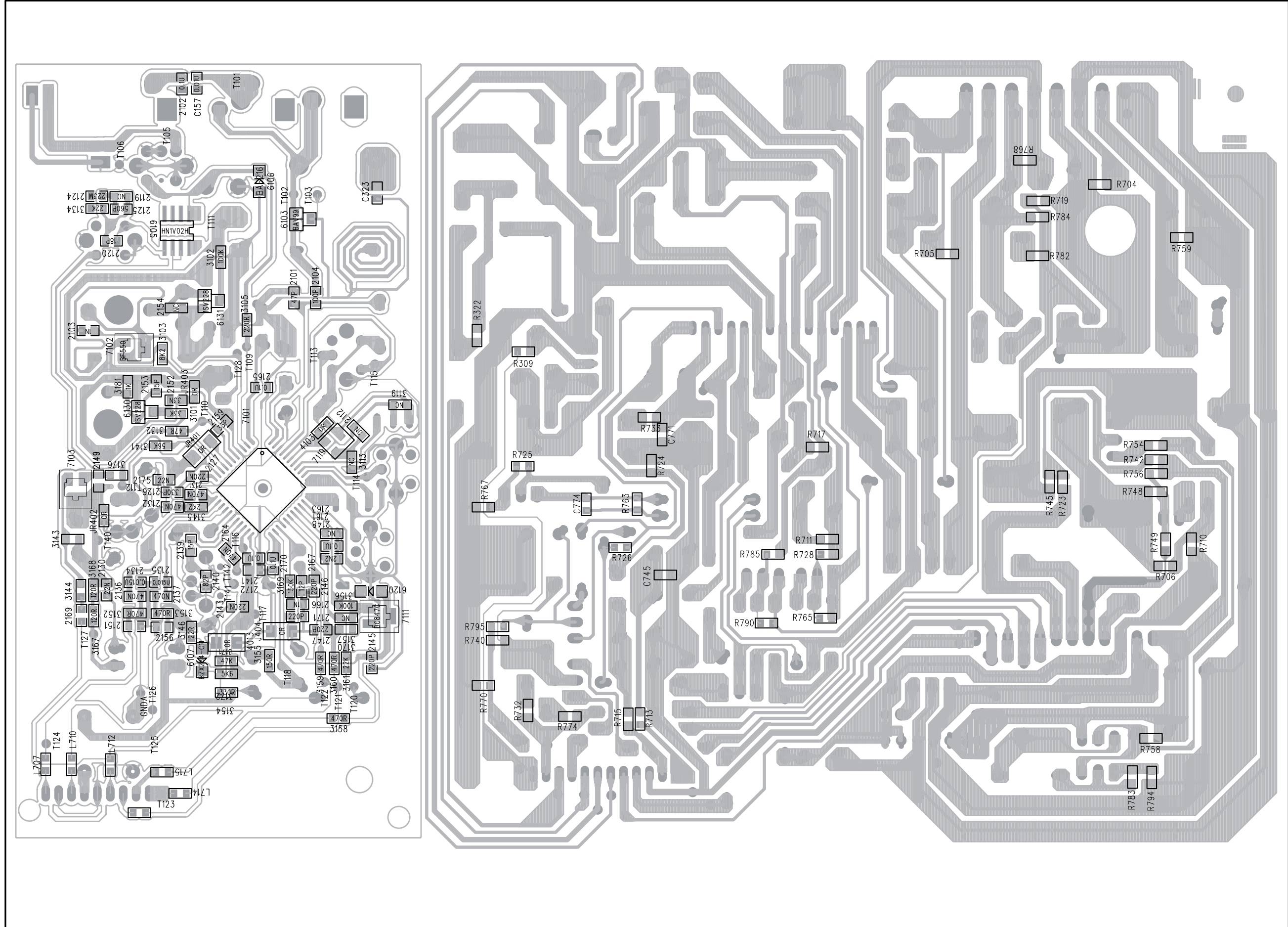
PCB LAYOUT - AMP (LOW POWER) BOARD (TOP VIEW)



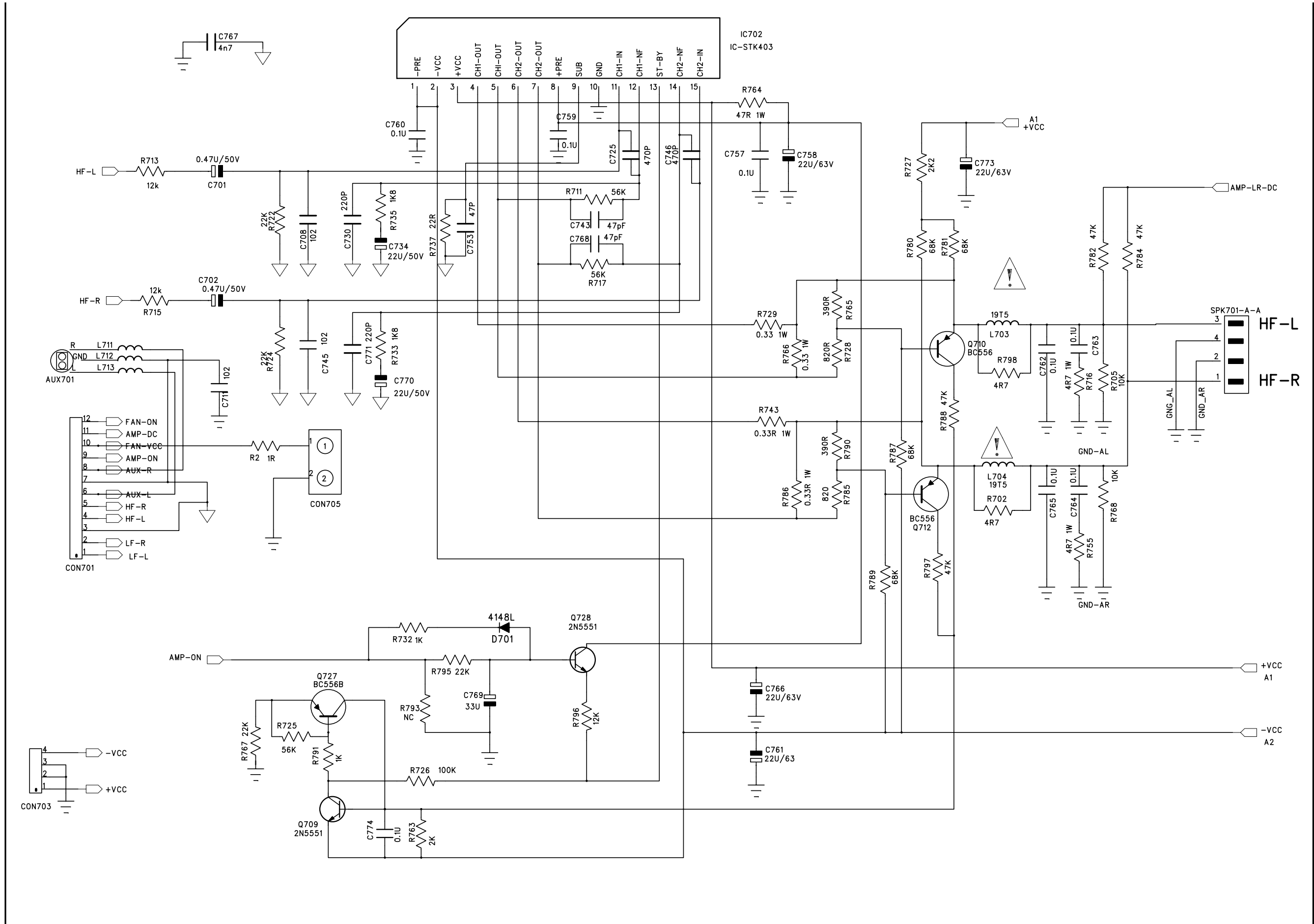
48-07FM37700120
 DATE:5 FEB 2007
 REV:5.0



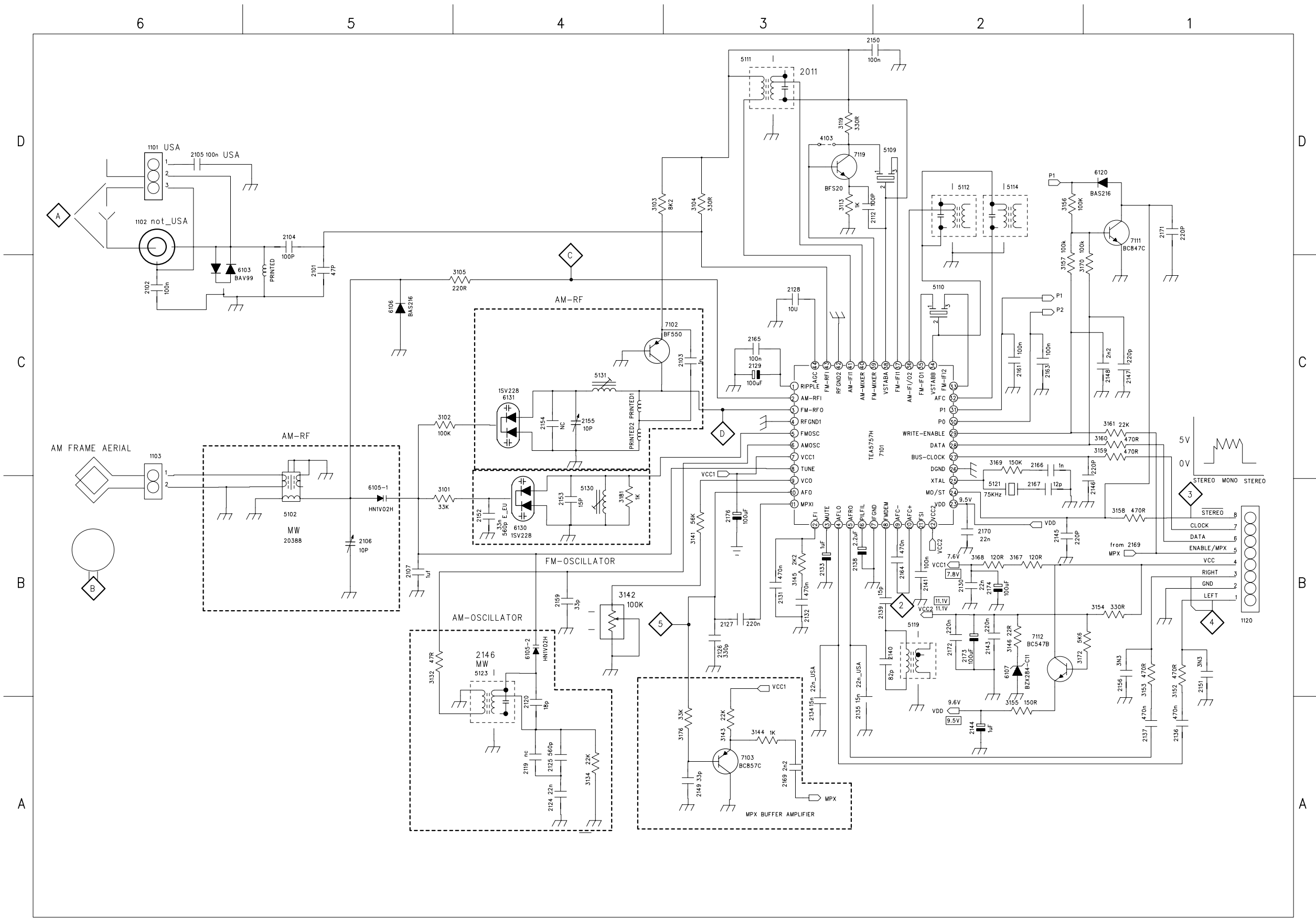
PCB LAYOUT - AMP (LOW POWER) BOARD (BOTTOM VIEW)

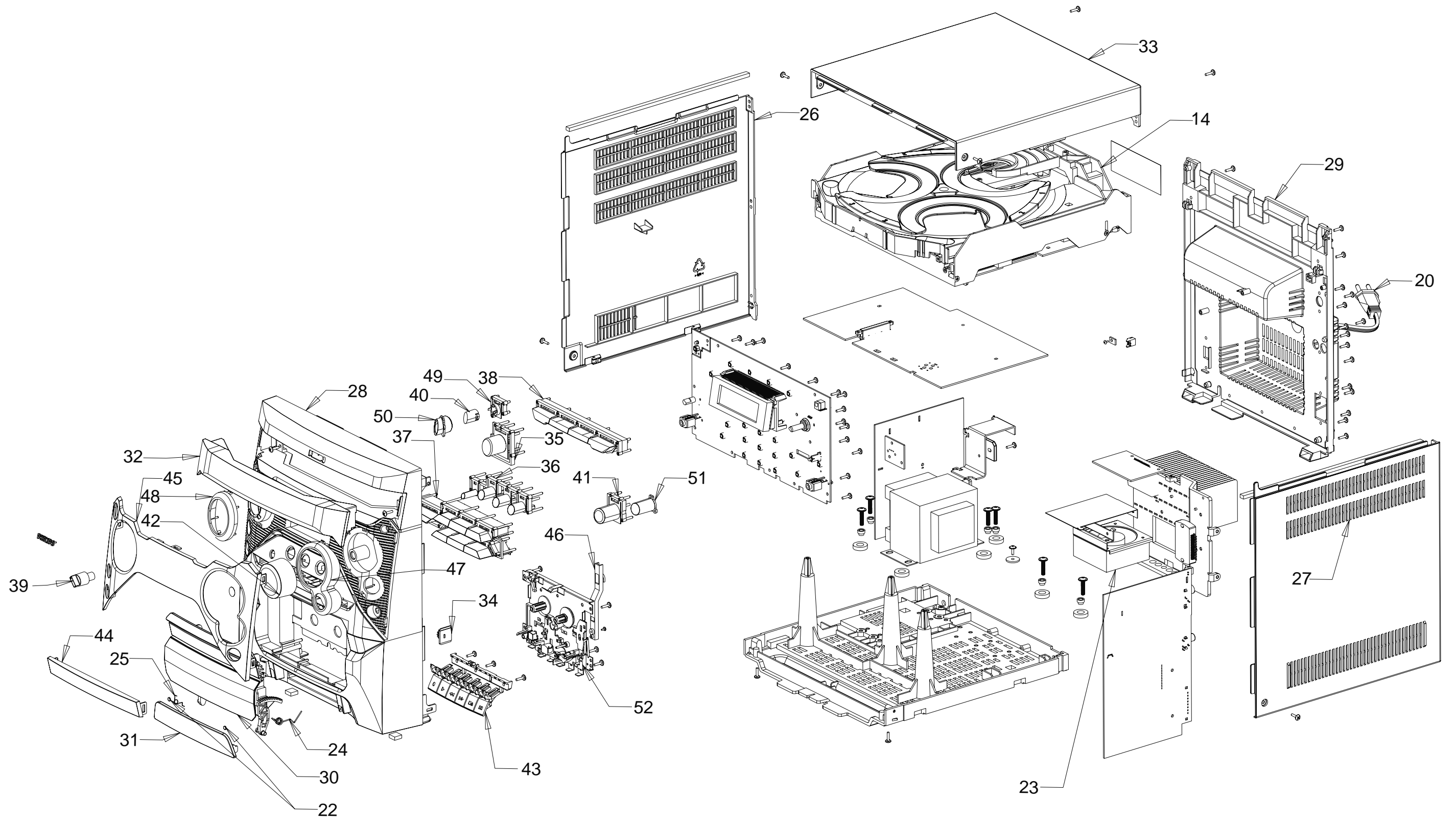


CIRCUIT DIAGRAM - AMP (LOW POWER) BOARD



CIRCUIT DIAGRAM - TUNING PART





MECHANICAL & ACCESSORIES PARTS LIST

2	996510001306	REMOTE CONTROL	48	994000004588	KEYS DECORTIVE RING
3	996510001307	SPK BOX L+R	49	994000004589	POWER BUTTON BASE
4	994000001192	AM LOOP ANTENNA LAN-031	50	994000004591	RING POWER
13	996510001323	3CDC BD ASS'Y (55)	51	996510001344	DBB LIGHT GUIDE
14	996510001324	3CDC MECHA CASING ASS'Y	52	994000004374	CASS DECK CS-21SC-820DT
15	994000003669	CD MECHANISM DA11VF	T801	△ 996510001325	TRASFO EI76 230V T08481A /05/12
15A	996510001326	11P FFC 1.25mm L80mm	T801	△ 996510001475	TRANSFORMER EI76 127/240V /55
16	994000004487	16P FFC 1MM L=170MM			
16A	996510001327	23P FFC 1.25mm L80mm			
17	994000004457	5P FFC L=200MM(AA)			
17A	996510001328	10P FFC 1.25mm L160mm			
18	996510001329	12P FFC 1.25mm L180mm			
19	996510001330	25P FFC 1.25mm L180mm			
20	△ 996510000909	AC CORD VDE APP 2M /12/55			
20	△ 996510001345	AC CORD BS PLUG CORD 2M /05			
21	994000001381	FM ANT (BLACK) 1M			
22	996510001331	CASSETTE KEY COVER FOOT			
23	996500041827	FAN KD1206PTS3			
24	994000001267	SPRING -RIGHT			
25	994000004379	CASSETTE KEY COVER SPRING			
26	994000001276	PANEL LEFT			
27	994000001277	PANEL RIGHT			
28	996510001477	FRONT CABINET /55			
28	996510001332	FRONT CABINET /05/12			
29	996510001478	REAR CABINET /55			
29	996510001333	REAR CABINET /05/12			
30	996510001334	CASSETTE DOOR			
31	996510001335	CASS KEYS DOOR			
32	996510001336	3CDC DOOR			
33	994000001285	TOP COVER			
34	994000001295	DAMPER GEAR ASS'Y			
35	996510001337	PLAY BUTTON			
36	996510001338	CONTROL KEYS			
37	996510001339	PROGRAM KEYS			
38	996510001340	SOURCE BUTTON			
39	996510001341	MIC KNOB			
40	994000004579	POWER BUTTON			
41	996510001342	DBB BUTTON			
42	994000004582	VOLUME KNOB			
43	994000004583	CASSETTE KEY WITH HOLDER			
44	994000004584	CASSETTE DOOR LENS			
45	996510001479	DISPLAY LENS /55			
45	996510001343	DISPLAY LENS /05/12			
46	994000004586	RECORD ARM			
47	994000004587	VOLUME DECORTIVE RING			

Note: Only these parts mentioned in the list are normal service parts.

ELECTRICAL PARTSLIST**MAIN BOARD**

C689 996510001309 E.CAP 4700UF 25V +-20% (PH)
 D303 996500042437 CH-DIODE SS14 SMA/DO-214AC
 D613 994000002446 RECTIFIER BRIDGE RS402
 IC301 994000001237 IC (PHILIPS) SAA6581T
 IC302 994000001201 IC NJM4556AM

IC505 994000004533 IC YD7312
 IC601 994000001202 IC TDA7468D
 IC602 994000001201 IC NJM4556AM
 IC603 994000000253 IC (SAMSUNG) KA7808
 IC606 994000004549 IC KA7805E

IC607 994000001201 IC NJM4556AM
 Q302 996500038609 TRANSISTORS 2W 8050C
 Q312 994000001194 TRANSISTORS KSD882Y
 Q318 994000004144 PNP TRANSISTORS 9015C
 Q321 996500038610 TRANSISTORS 2W 8550C

Q511 994000004338 TRANSISTORS PMBT3904
 Q512 996500038609 TRANSISTORS 2W 8050C
 Q601 996510001308 TRANS. 2SD1936U
 Q602 996510001308 TRANS. 2SD1936U
 Q604 994000004144 PNP TRANSISTORS 9015C

Q605 994000004338 TRANSISTORS PMBT3904
 Q607 996500038609 TRANSISTORS 2W 8050C
 Q608 994000004338 TRANSISTORS PMBT3904
 Q609 994000004145 TRANSISTORS B772Y (160-320)
 Q611 996500038609 TRANSISTORS 2W 8050C

Q612 996500038609 TRANSISTORS 2W 8050C
 Q618 994000001194 TRANSISTORS KSD882Y
 SW501 994000004539 PUSH SWITCH
 X301 996510001310 XTAL 4.332MHZ +-20PPM

POWER BOARD

C805 Δ 994000001225 SAFETY CAP 275V 0.22UF -20%
 C806 996510001312 E.CAP 3300UF 50V +-20% (PH)
 C821 996510001312 E.CAP 3300UF 50V +-20% (PH)
 F801 Δ 994000001222 FUSE RADIAL LT 2A 250V
 F802 Δ 994000004599 FUSE RADIAL T3.15A 250V

F804 Δ 994000001351 FUSE RADIAL T4A 250V
 F805 Δ 994000001351 FUSE RADIAL T4A 250V
 F807 Δ 994000001229 FUSE RADIAL T200MA/250V

IC801 994000002839 IC LM1117S-3.3
 L802 994000001226 AC LINE FILTER IND. 400UH 3A

Q801 996500038609 TRANSISTORS 2W 8050C
 Q802 996500038609 TRANSISTORS 2W 8050C
 RL801 Δ 996500039818 RELAY ME-7-006-HSL DC6V 10A
 SW801 994000001323 SWITCH /55

POWER BOARD

T802 Δ 996510001311 TRASFO EI28 230V T08512A
 Z801 994000001196 BRIDGE RECT 8A GBU8D-E3/72

FRONT (KEY) BOARD

D402 994000001234 LED LAMP 3MM (RED)
 D403 994000001234 LED LAMP 3MM (RED)
 FTD401 996510001313 FTD DISPLAY VFD33-1220N
 IC401 994000004542 IC PT6315
 JACK401 994000004543 V/PHONE JACK (BLK)

JACK402 994000004543 V/PHONE JACK (BLK)
 Q401 996510000849 NPN TRANSISTORS 9014C
 Q402 996500038609 TRANSISTORS 2W 8050C
 Q407 996500038609 TRANSISTORS 2W 8050C
 Q414 994000004144 PNP TRANSISTORS 9015C

Q424 996510000849 NPN TRANSISTORS 9014C
 REM401 994000004367 OPTIC SENSER FM-6038TM2-5AN
 SW402 994000001243 TACT SWITCH
 SW405 994000001243 TACT SWITCH
 SW406 994000001243 TACT SWITCH

SW407 994000001243 TACT SWITCH
 SW408 994000001243 TACT SWITCH
 SW409 994000001243 TACT SWITCH
 SW410 994000001243 TACT SWITCH
 SW411 994000001243 TACT SWITCH

SW412 994000001243 TACT SWITCH
 SW413 994000001243 TACT SWITCH
 SW414 994000001243 TACT SWITCH
 SW417 994000001243 TACT SWITCH

SW418 994000001243 TACT SWITCH
 SW420 994000001243 TACT SWITCH
 SW421 994000001243 TACT SWITCH
 SW422 994000001243 TACT SWITCH
 SW423 994000001243 TACT SWITCH

VF401 994000001324 ROTARY VOLUME 20K
 VR402 994000001241 ROTARY ENCODER

AMP BD ASS'Y

1102 994000001353 COAXIAL JACK IF-01A
 1110 994000004442 TUNER (MITSUMI) FE450-G11
 2106 994000000254 TRIMMER 10PF 6MM (WH)
 5102 994000001212 AM IFT (BLACK) 7MM
 5109 994000001208 CER. FILTER SFELA10M7HA00-B0

ELECTRICAL PARTSLIST**AMP BOARD ASS'Y for /12/05**

5110	994000001208	CER. FILTER SFELA10M7HA00-B0	5123
5111	996500042436	I.F.T 7mm #7M4A2011N (B)	6105
5112	996500042434	I.F.T 7mm #C712KC-004 (Y)	6107
5114	996500042434	I.F.T 7mm #C712KC-004 (Y)	6130
5115	994000001352	BIRDIE COIL IFT (BLK)	6131
5119	996500042433	I.F.T 7mm #KS2599 (BLK)	7101
5121	994000004352	CRYSTAL 75KHZ 12.5PF DT-381	7112
5123	996500042435	I.F.T 7mm #7M1A2146 (B)	AUX701
6105	994000002454	VARIABLE CAP DIODE HN-1V02H	IC702
6107	996500042431	ZENER DIODE 11V #PDZ11B	L701
7101	994000001204	IC (PHILIPS) TEA5762H	L702
7112	996500039345	TRANSISTORS 2W 8050D	L703
AUX701	994000001221	V/RCA JACK 2P	L704
IC702	996510001314	IC (SANYO) STK433-070	Q311
L701	994000001217	AIR COIL 6X18.5T (0.5MM)	Q314
L702	994000001217	AIR COIL 6X18.5T (0.5MM)	R708
L703	994000001217	AIR COIL 6X18.5T (0.5MM)	R709
L704	994000001217	AIR COIL 6X18.5T (0.5MM)	R729
Q311	996500038609	TRANSISTORS 2W 8050C	R738
Q314	996500038609	TRANSISTORS 2W 8050C	R739
R708	994000004473	RES. METAL 0.33R 1W +-1%	R743
R709	994000004473	RES. METAL 0.33R 1W +-1%	R764
R729	994000004473	RES. METAL 0.33R 1W +-1%	R766
R738	994000004473	RES. METAL 0.33R 1W +-1%	R786
R739	994000004473	RES. METAL 0.33R 1W +-1%	SPK701
R743	994000004473	RES. METAL 0.33R 1W +-1%	
R764	△ 994000004472	RESISTORS FUSIBLE 47R 1W +-1%	
R766	994000004473	RES. METAL 0.33R 1W +-1%	IC701
R786	994000004473	RES. METAL 0.33R 1W +-1%	R772
SPK701	996510001315	SPK JACK (R/R/B/B/BLKx4)	

AMP BOARD ASS'Y FOR /55

1102	994000001353	COAXIAL JACK IF-01A	11
1110	994000004442	TUNER (MITSUMI) FE450-G11	
2106	994000000254	TRIMMER 10PF 6MM (WH)	
5102	994000001212	AM IFT (BLACK) 7MM	D3
5109	994000001208	CER. FILTER SFELA10M7HA00-B0	IC10
5110	994000001208	CER. FILTER SFELA10M7HA00-B0	IC2
5111	996500042436	I.F.T 7mm #7M4A2011N (B)	IC3
5112	996500042434	I.F.T 7mm #C712KC-004 (Y)	
5114	996500042434	I.F.T 7mm #C712KC-004 (Y)	IC4
5115	994000001352	BIRDIE COIL IFT (BLK)	IC6
5119	996500042433	I.F.T 7mm #KS2599 (BLK)	IC7
5121	994000004352	CRYSTAL 75KHZ 12.5PF DT-381	IC8
			IC9

AMP BOARD ASS'Y for /12/05

996500042435	I.F.T 7mm #7M1A2146 (B)	
994000002454	VARIABLE CAP DIODE HN-1V02H	6105
996500042431	ZENER DIODE 11V #PDZ11B	6107
994000001479	VARICAP DIODE ISV228	6130
994000001479	VARICAP DIODE ISV228	6131
994000001321	IC (Philips) TEA5757H/V1	7101
996500039345	TRANSISTORS 2W 8050D	7112
994000001221	V/RCA JACK 2P	AUX701
996510001314	IC (SANYO) STK433-070	IC702
994000001217	AIR COIL 6X18.5T (0.5MM)	L701
994000001217	AIR COIL 6X18.5T (0.5MM)	L702
994000001217	AIR COIL 6X18.5T (0.5MM)	L703
994000001217	AIR COIL 6X18.5T (0.5MM)	L704
996500038609	TRANSISTORS 2W 8050C	Q311
996500038609	TRANSISTORS 2W 8050C	Q314
994000004473	RES. METAL 0.33R 1W +-1%	R708
994000004473	RES. METAL 0.33R 1W +-1%	R709
994000004473	RES. METAL 0.33R 1W +-1%	R729
994000004473	RES. METAL 0.33R 1W +-1%	R738
994000004473	RES. METAL 0.33R 1W +-1%	R739
994000004473	RES. METAL 0.33R 1W +-1%	R743
△ 994000004472	RESISTORS FUSIBLE 47R 1W +-1%	R764
994000004473	RES. METAL 0.33R 1W +-1%	R766
994000004473	RES. METAL 0.33R 1W +-1%	R786
996510001315	SPK JACK (R/R/B/B/BLKx4)	SPK701

HF BD ASS'Y

996510001314	IC (SANYO) STK433-070	IC701
994000004472	RESISTORS FUSIBLE 47R 1W +-1%	R772

USB BD ASS'Y

996510001316	USB SOCKET 4P	
--------------	---------------	--

CPU BD ASS'Y

996510000321	ZENER DIODE PDZ3.9B	
996510000329	IC PCF8563T CLOCK SOP8	
996510001321	IC SCF5250AG120	
996510001320	IC KH29LV800C TTC W/S.W.	
996510001319	IC 16M SDRAM K4S161622H-UC60	
996510000326	IC USB HOST CTR	
996510001322	IC WM8738 GDE SOP	
996510001318	IC 74LV157APW	
994000004541	IC M24C02-WMN6	
996510000328	IC OPT30 (SOP8)	

ELECTRICAL PARTSLIST**CPU BD ASS'Y**

Q1	996510000319	TRANSISTORS FDN338P
Q2	996510001317	TRANSISTOR 2SB1132R
Q4	996510000314	TRANSISTOR 2SD1664R
Y1	994000004551	CRYSTAL 16.9344MHZ +-20PPM
Y2	996510000333	CRYSTAL 6.000MHz
Y3	994000004615	CRYSTAL 32.768KHZ 12.5PF

Note: Only these parts mentioned in the list are normal service parts.