

Service
Service
Service



Service Manual

PROGRESSIVE SCAN



dts
Digital Surround



HDMI

TABLE OF CONTENTS

	Page
Location of PC Boards	1-2
Versions Variation & Package	1-2
Specifications	1-3
Service Aids	1-4
ESD & Safety Instruction	1-5
Lead-free soldering Information	1-6
Repair Instructions	2
Disassembly Instructions & Service positions	3
Block & Wiring Diagram	4
Ipod Board	5
Control Board	6
Main Board	7
Power Board	8
DVD loader.....	9
Mechanical Exploded View & Parts.....	10

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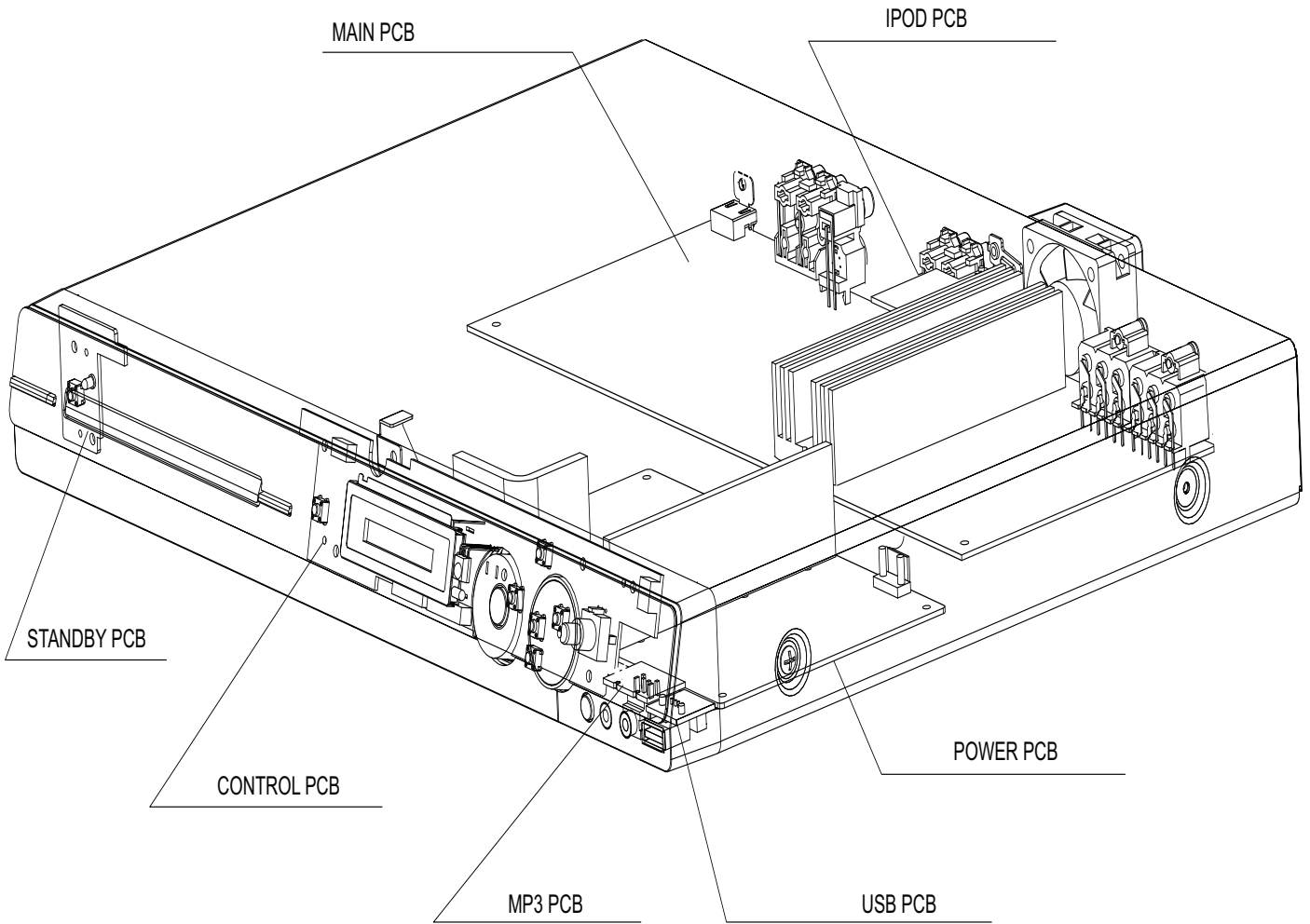
3139 785 32480

Version 1.0



PHILIPS

LOCATION OF PCB BOARDS



VERSION VARIATION:

Type/Versions	HTS3544
Features & Board in used	/37
Main (Output Power-1000W)	X
Composite Video Out	X
Power Voltage (120V)	X
AC Cord (Fix)	X

Specifications

AMPLIFIER

Total output power	
- Home Theater mode	1000 W
- FTC* output power	510 W
Frequency Response	180 Hz – 14 kHz / ± 3 dB
Signal-to-Noise Ratio	> 60 dB (A-weighted)
Input Sensitivity	
- AUX In	500 mV
- TV In	250 mV
- MP3 Line-In	500 mV
* (1% THD 1kHz)	

RADIO

Tuning Range	FM 87.5–108 MHz (100kHz)
	AM 530–1700 kHz (10kHz)
26 dB Quieting Sensitivity	FM 22 dBf, AM 5000 μ V/m
IF Rejection Ratio	FM 60 dB, AM 24 dB
Signal-to-Noise Ratio	FM 50 dB, AM 30 dB
AM Suppression Ratio	FM 30 dB
Harmonic Distortion	FM Mono 3%
	FM Stereo 3%
	AM 5%
Frequency Response	FM 180 Hz–10 kHz / ± 6 dB
Stereo Separation	FM 26 dB (1 kHz)
Stereo Threshold	FM 23.5 dB

DISC

Laser Type	Semiconductor
Disc Diameter	12cm / 8cm
Video Decoding	MPEG-1 / MPEG-2 /
	/ DivX 3/4/5/6, Ultra
Video DAC	12 Bits
Signal System	NTSC / Multi
Video Format	4:3 / 16:9
Video S/N	56 dB
Composite Video	
Output	1.0 Vp-p, 75 Ω
S-Video Output	Y - 1.0 Vp-p, 75 Ω
	C - 0.286 Vp-p, 75 Ω
Audio DAC	24 Bits / 96 kHz
Frequency Response	4 Hz–20 kHz (44.1 kHz)
	4 Hz–22 kHz (48 kHz)
	4 Hz–44 kHz (96 kHz)
PCM	IEC 60958
Dolby Digital	IEC 60958, IEC 61937
DTS	IEC 60958, IEC 61937

MAIN UNIT

Power Supply Rating	120 V; 60 Hz
Power Consumption	180 W
Low Standby power	< 1 W
Dimensions	435 x 55 x 367 (mm)(w x h x d)
Weight	4.04 kg

FRONT AND REAR SPEAKERS

System	Full range satellite
Impedance	6 Ω
Speaker drivers	3" full range speaker
Frequency response	150 Hz – 20 kHz
Dimensions	95.5 x 198.3 x 75 (mm) (w x h x d)
Weight	0.62 kg/each

CENTER SPEAKER

System	Full range satellite
Impedance	3 Ω
Speaker drivers	2 x 2.5" full range woofer, 1 x 2" tweeter
Frequency response	150 Hz – 20 kHz
Dimensions	435 x 93.5 x 67 (mm) (w x h x d)
Weight	1.26kg

SUBWOOFER

Impedance	3 Ω
Speaker drivers	203 mm (8") woofer
Frequency response	40 Hz – 150 Hz
Dimensions	159.5 x 355.5 x 370 (mm) (w x h x d)
Weight	4.78 kg

Specifications subject to change without prior notice.

SERVICE AIDS

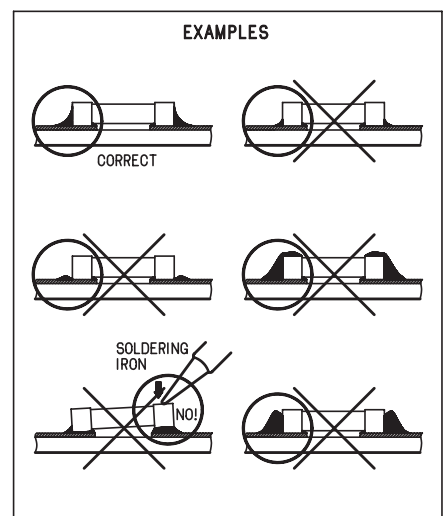
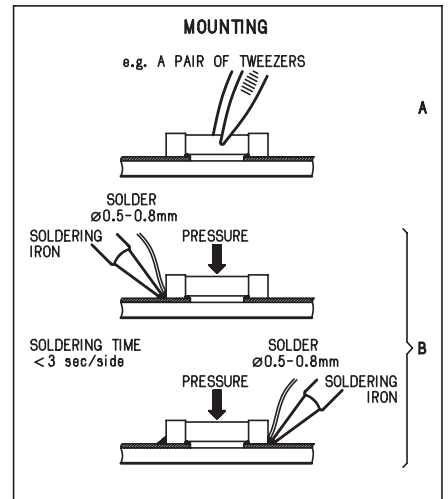
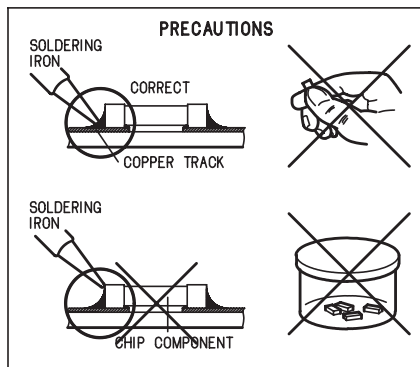
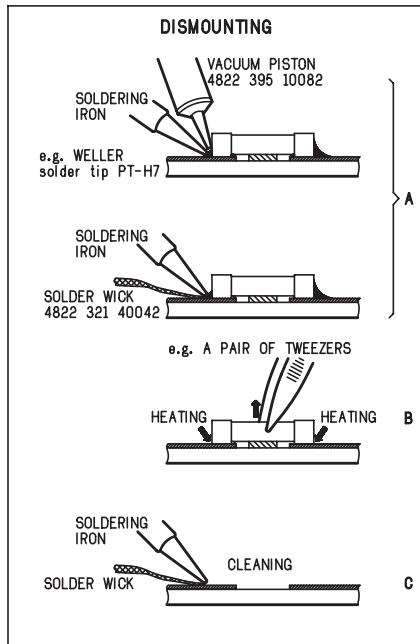
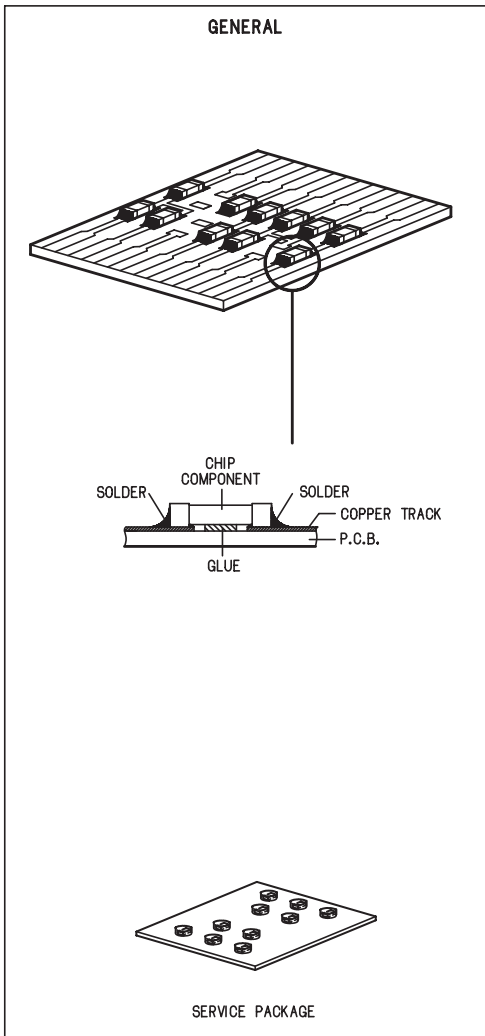
Service Tools:

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

HANDLING CHIP COMPONENTS



ESD**(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.

(D) WARNUNG

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

(GB) ESD PROTECTION EQUIPMENT

Complete Kit ESD3 (small tablemat, wristband, connection box, estention cable and earth cable 4822 310 10671
Wristband tester 4822 344 13999

(GB)

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

Safety components are marked by the symbol Δ .

(NL)

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

De Veiligheidsonderdelen zijn aangeduid met het symbol Δ .

(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.

Less composants de sécurité sont marqués Δ .

(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.

Sicherheitsbauteile sind durch das Symbol Δ markiert.

(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.

Componenti di sicurezza sono marcati con Δ .

(GB)

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.

**(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 suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

(DK) Advarsel !

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

(F)

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

Pb(Lead) Free Solder

When soldering, be sure to use the pb free solder.

IDENTIFICATION:

Regardless of special logo (not always indicated)



one must treat all sets from **1 Jan 2005** onwards, according next rules:

Important note: In fact also products of year 2004 must be treated in this way as long as you avoid mixing solder-alloys (leaded/ 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 – 380°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 unused 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 'dry-packaging' (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.

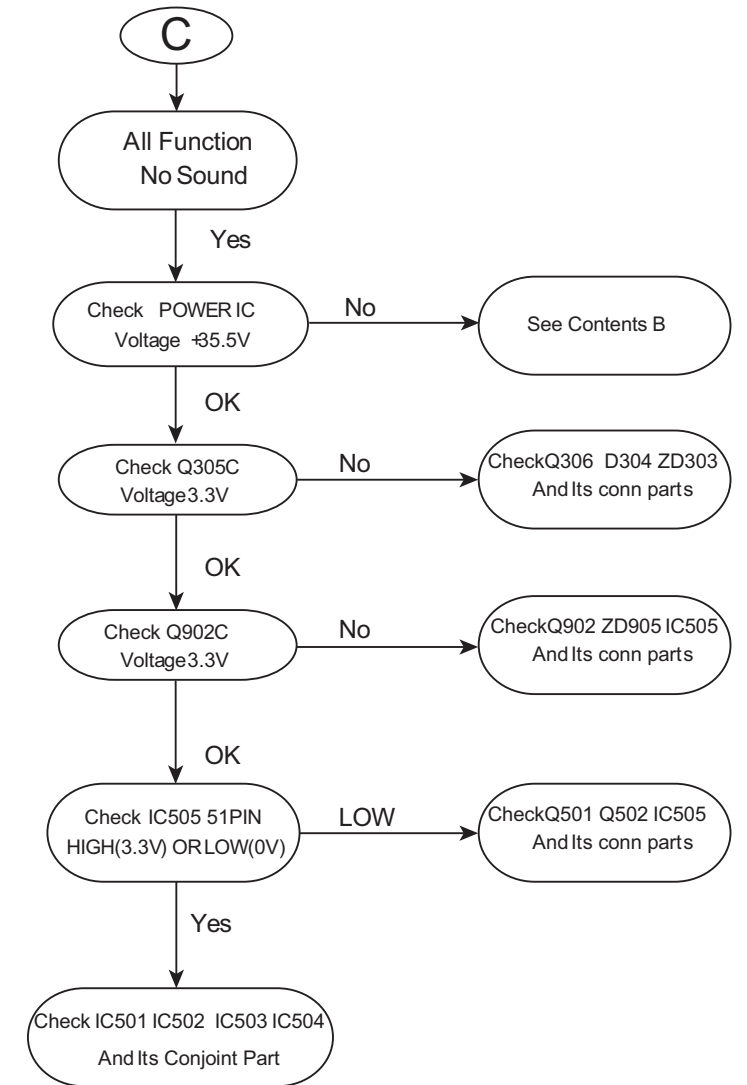
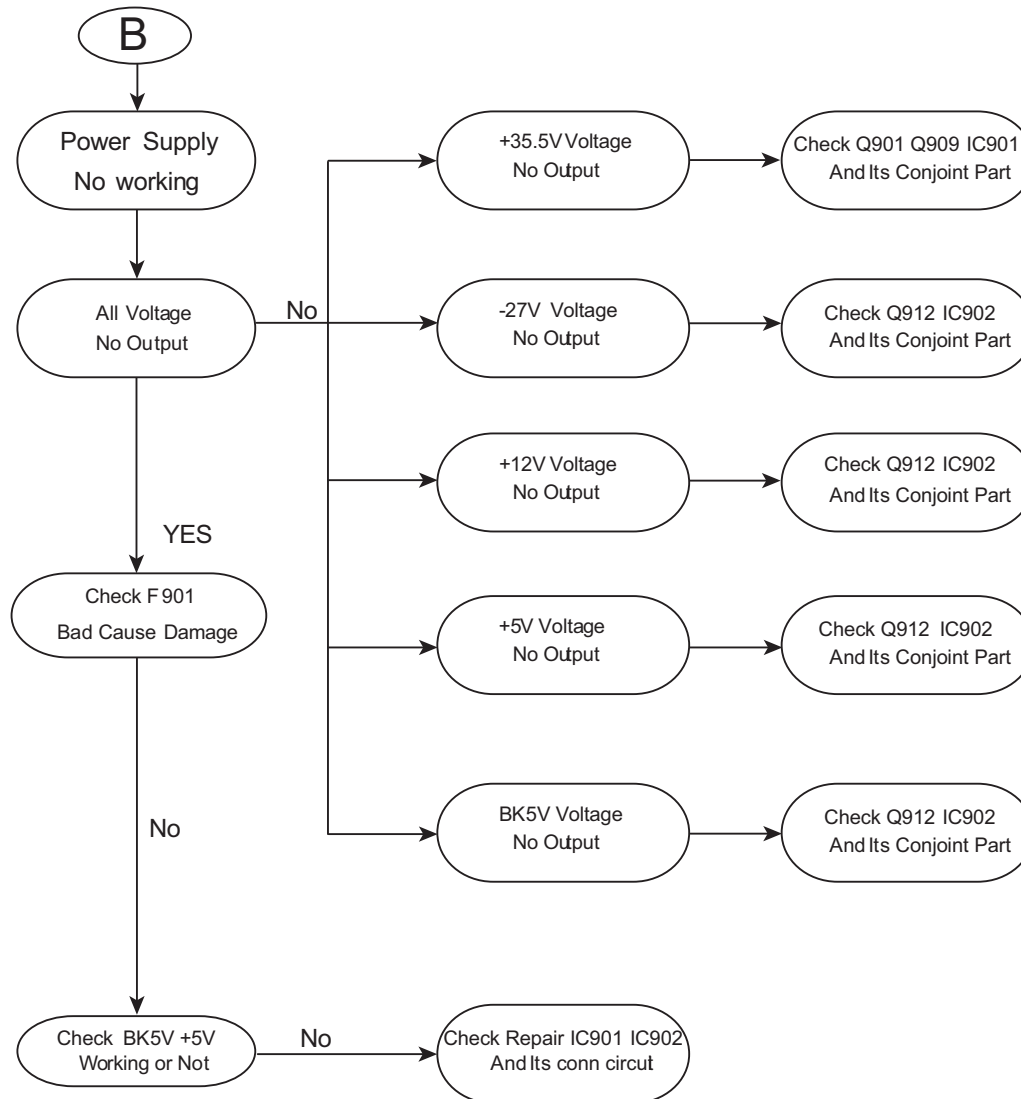
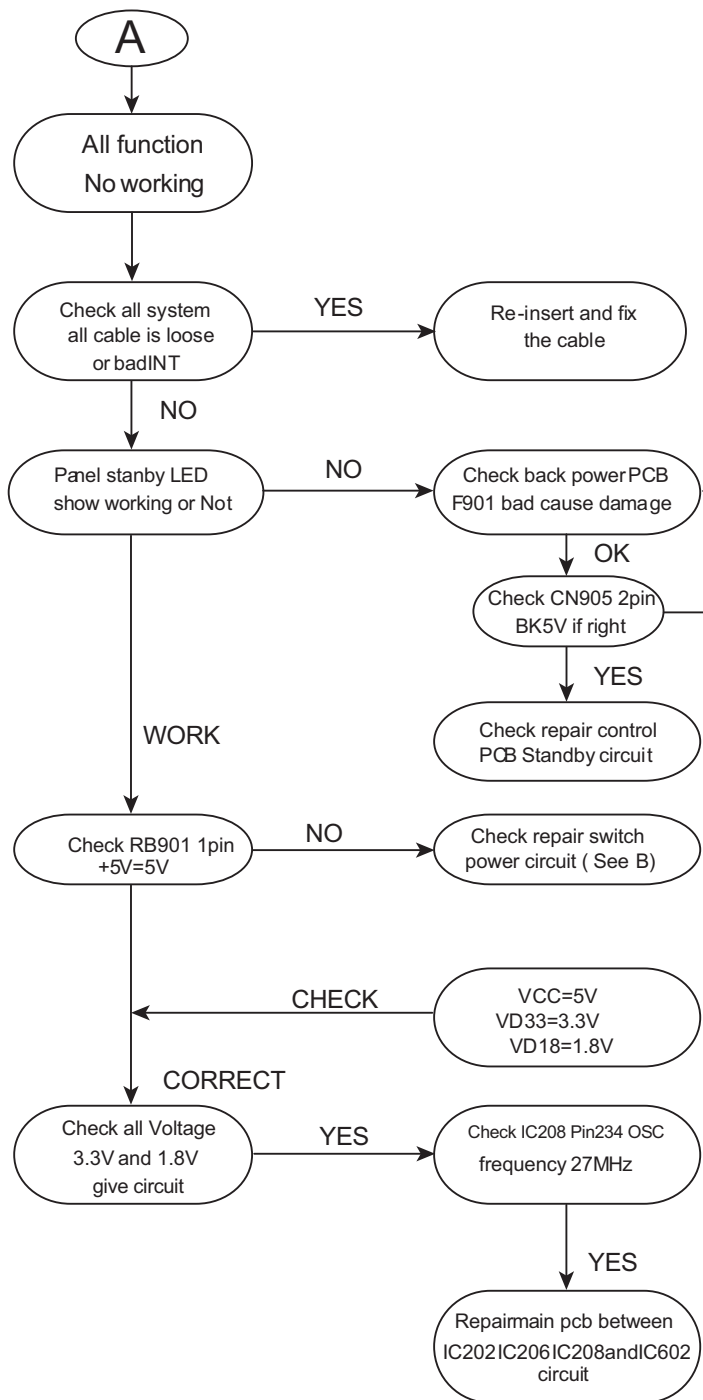
- For sets produced before 1.1.2005 (except products of 2004), containing leaded solder-alloy and components, all needed spare-parts will be available till the end of the service-period. For repair of such sets nothing changes.
- On our website www.atyourservice.ce.Philips.com you find more information 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 "magazine", chapter "workshop news".

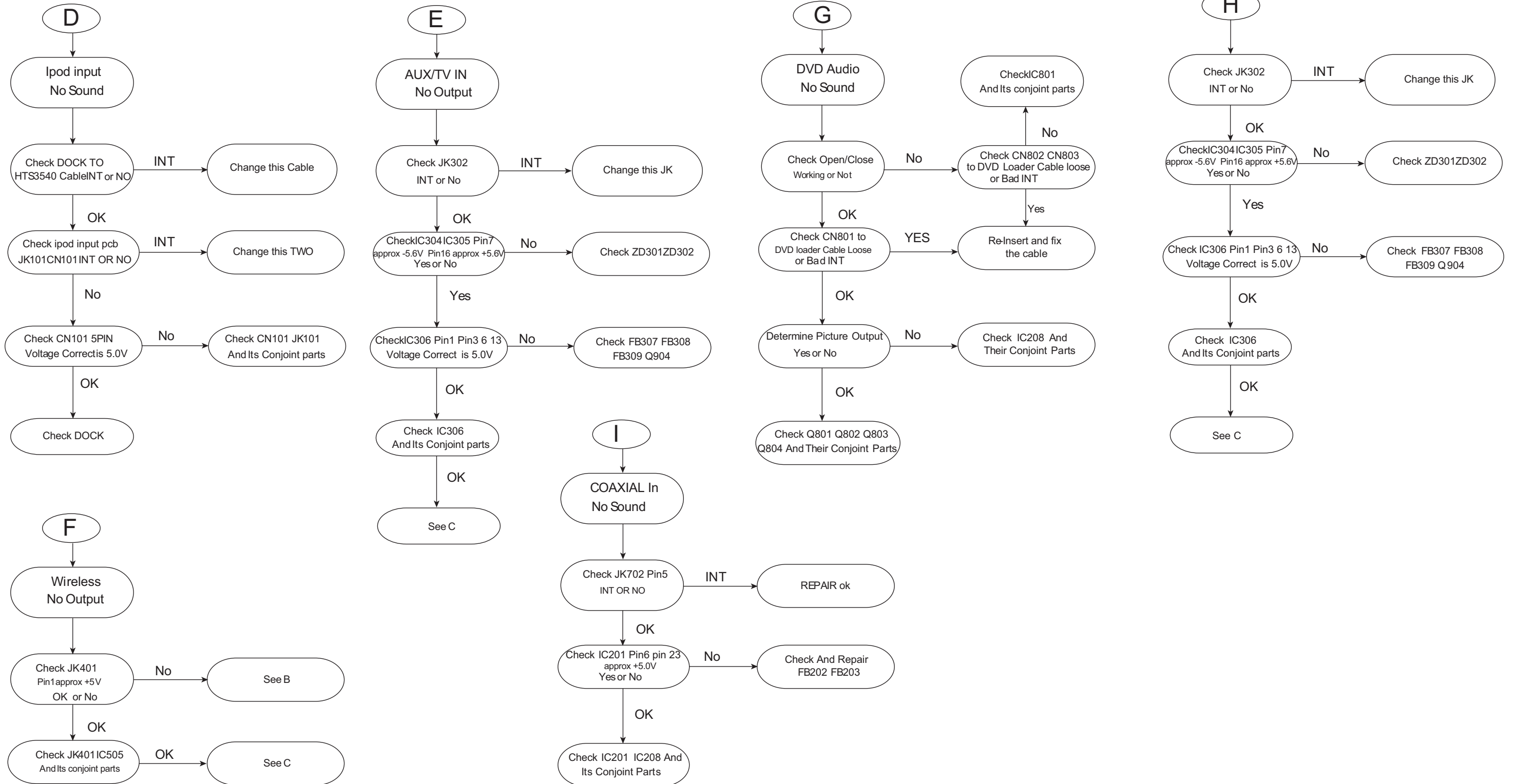
For additional questions please contact your local repair-helpdesk.

MAIN UNIT REPAIR CHART 1 / 3

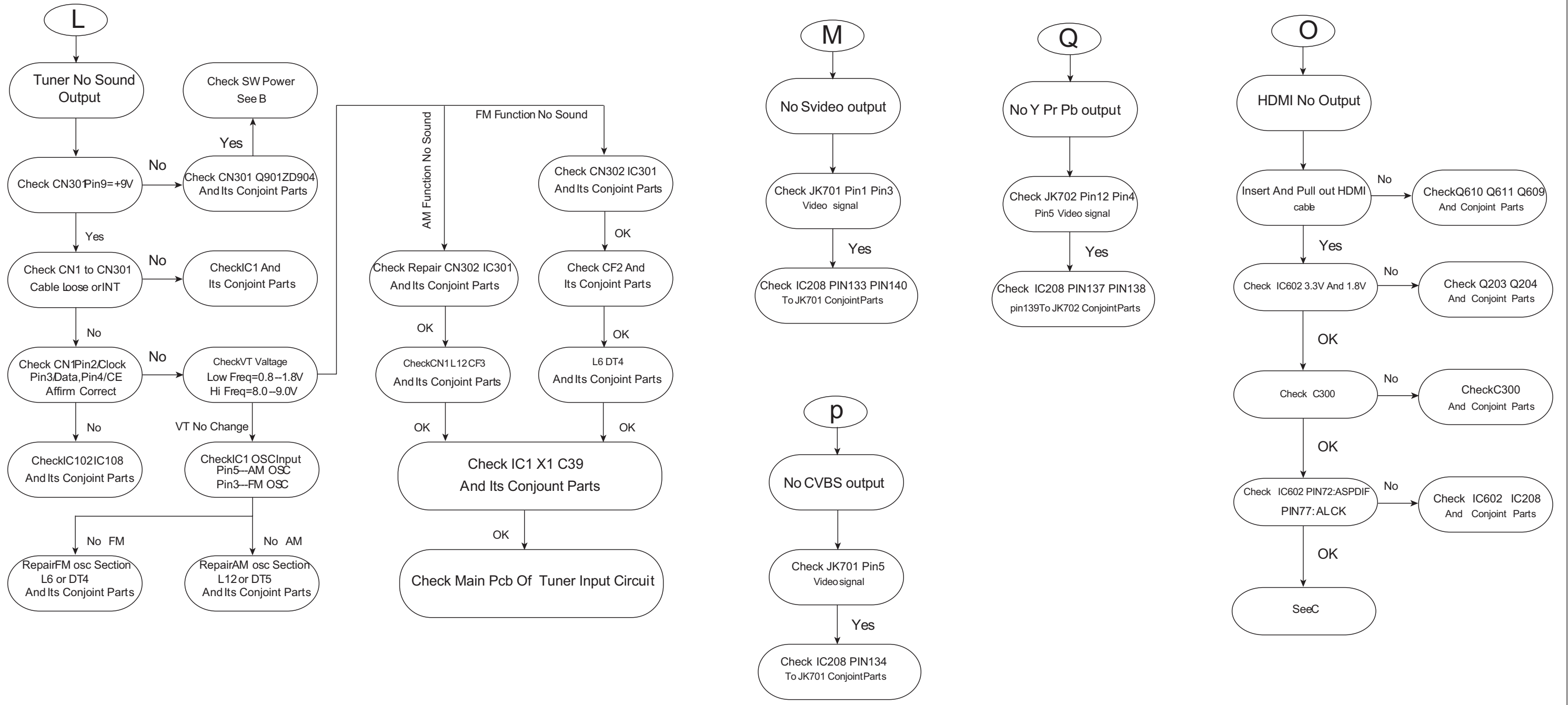
- A**
All Function
No Working
- B**
Power Supply
No Working
- C**
All Function
No Sound
- D**
Ipod input
No Sound
- E**
Audio line IN
No Output
- F**
Wireless
No Output
- G**
DVD Audio
No Sound
- H**
MP3 In
No Sound
- I**
COAXIAL In
No Sound
- L**
Tuner No Sound
- M**
No Svideo Output
- O**
HDMI No Output
- P**
No CVBS Output
- Q**
No Y Pr Pb output



MAIN UNIT REPAIR CHART 2/3



MAIN UNIT REPAIR CHART 3/3



DISASSEMBLY INSTRUCTIONS

Dismantling of the Front Panel Assembly

- 1) Open the DVD Tray by using the Open/Close Button while the Set is ON and disconnect the mains supply after removing the Tray Cover.

Note: If this is not possible, the DVD Tray has to be open manually.

Take a mini screw driver about 2mm diameter and make a marking 24mm from the tip as shown in figure 2 . Place the set on its side, insert the mini screw driver till the marking and slide it towards the right as shown in figure 1 until the Tray moves out of the Front Panel.

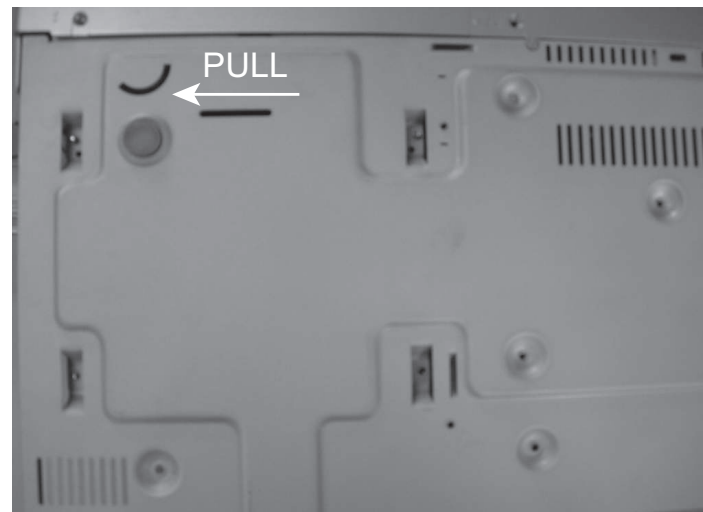


Figure 1



Figure 2

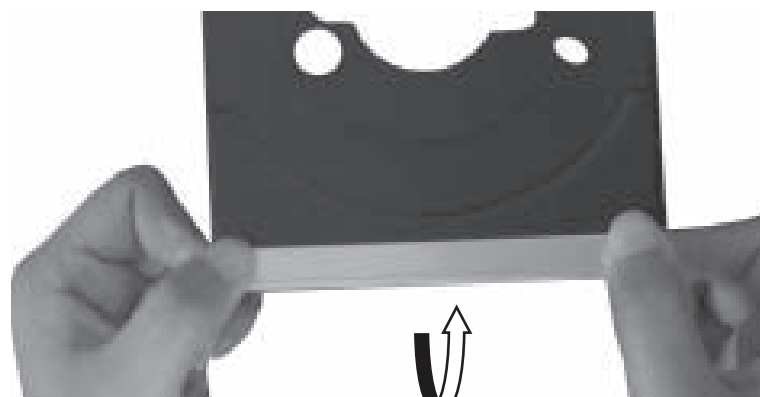


Figure 3

3 - 1

- 2) Return the set to its upright position and remove the Tray Cover as shown in Figure 3 and close the tray manually by pushing it back in.
- 3) Loosen 5 screws and remove the Top Cover by lifting the rear portion upwards before sliding it out towards the rear.
 - 3 screws on the back
 - 1 screw each on the left & right side
- 4) Loosen 5 screws & lift up the top edge of Front Panel assembly to free some catches before sliding it out towards the front.
 - 3 screws on the bottom
 - 1 screw each on the left & right side

Dismantling of the Main PCB

3 - 1

- 2) Loosen 3 screw " A " on the top of main board as shown in figure 4.
- 1) Loosen 7 screw "B" at the back panel as shown in figure 5.

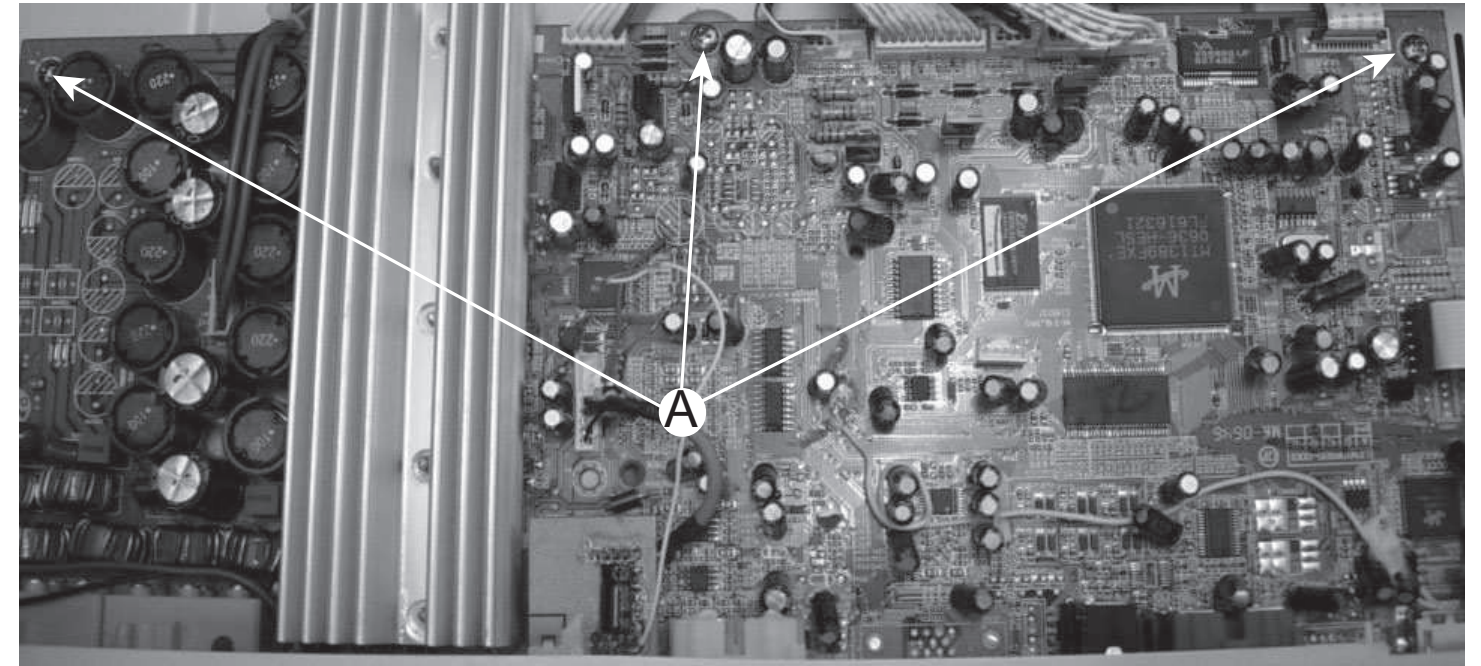


Figure 4

Dismantling of the Ipod Board

- 1) Loosen 1 screws "C" at the back pancele as shown in figure5

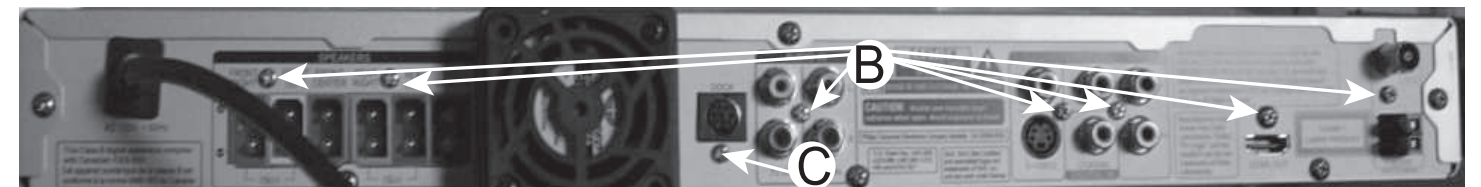


Figure 5

1) Loosen 10 screws "E" at the back pancele as shown in figure 6

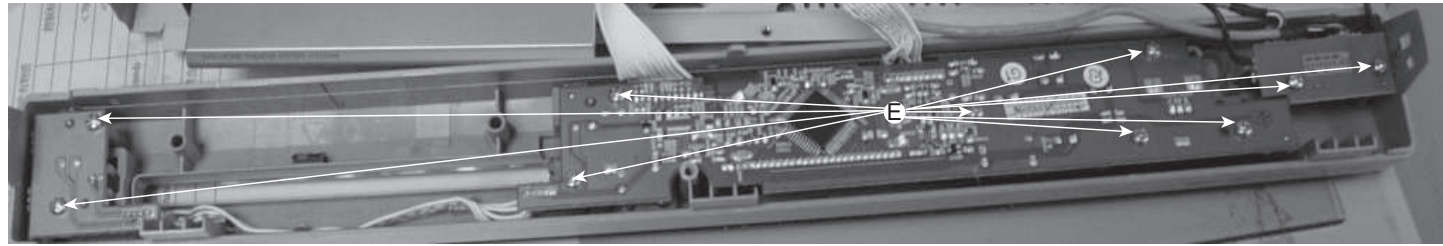


Figure 6

Dismantling of the Power Board

1) Loosen 5 screws "D" at the top of the Power Board as shown in figure 7

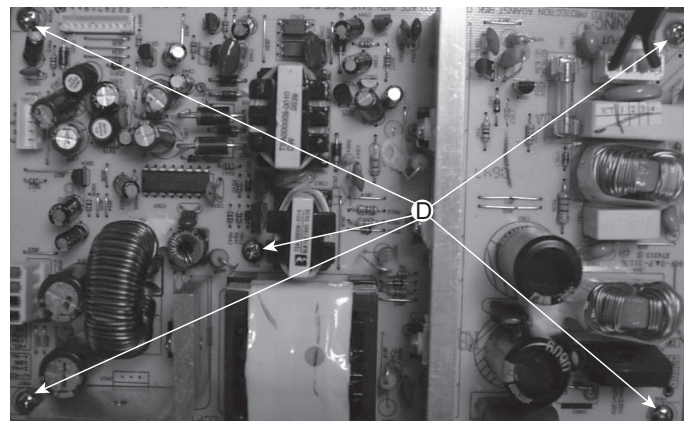


Figure 7

Dismantling of the DVD Module

1) Loosen 4 screws "F" to remove the DVD Module as shown in figure 8.

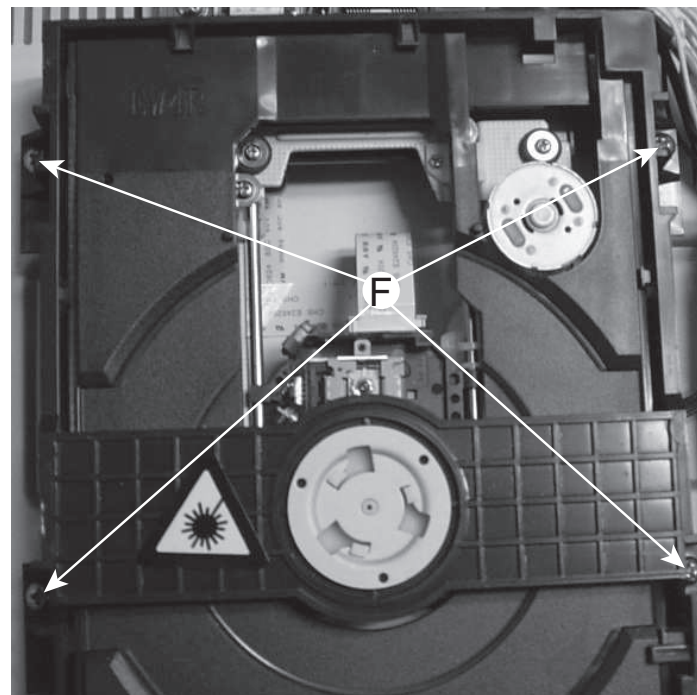
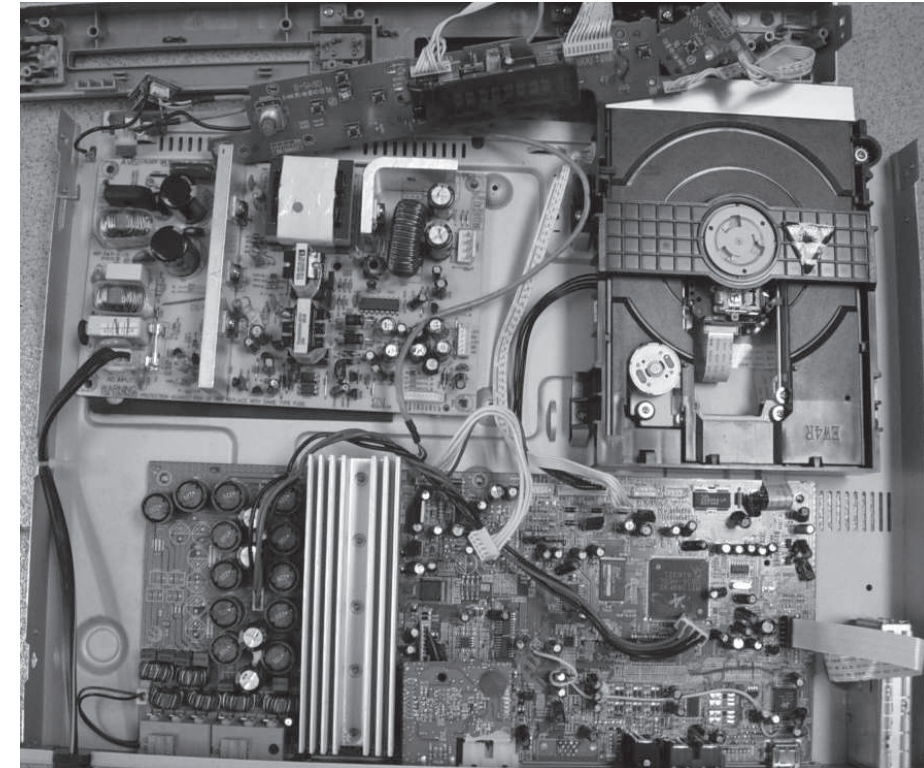


Figure 8

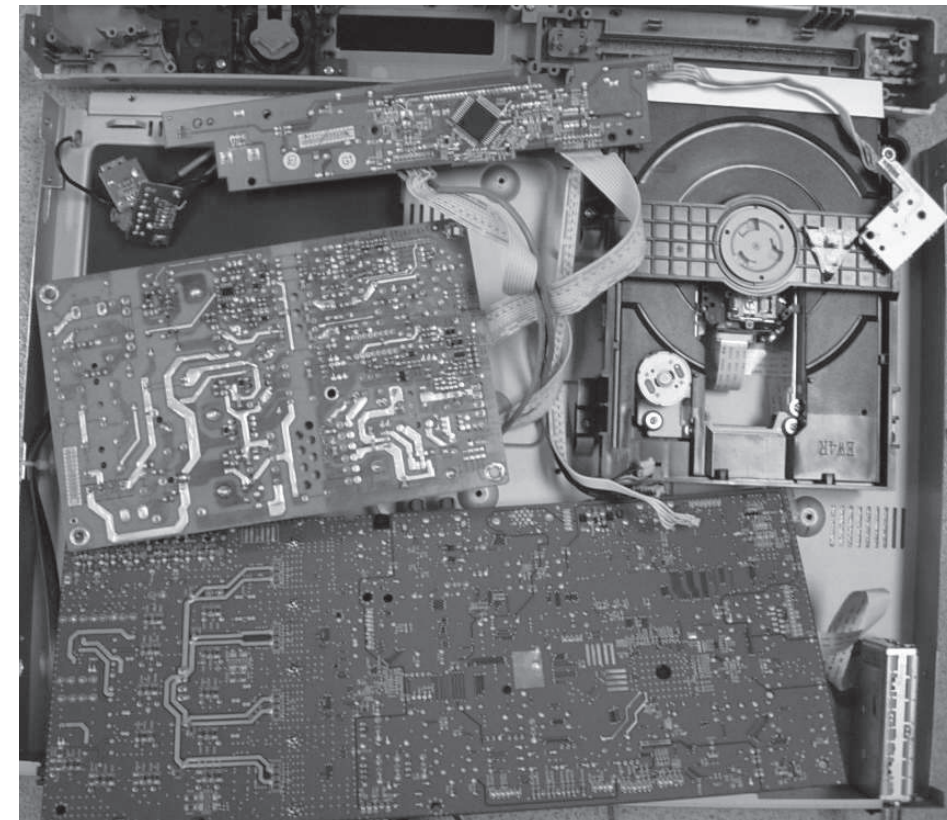
SERVICE POSITIONS

Service position A

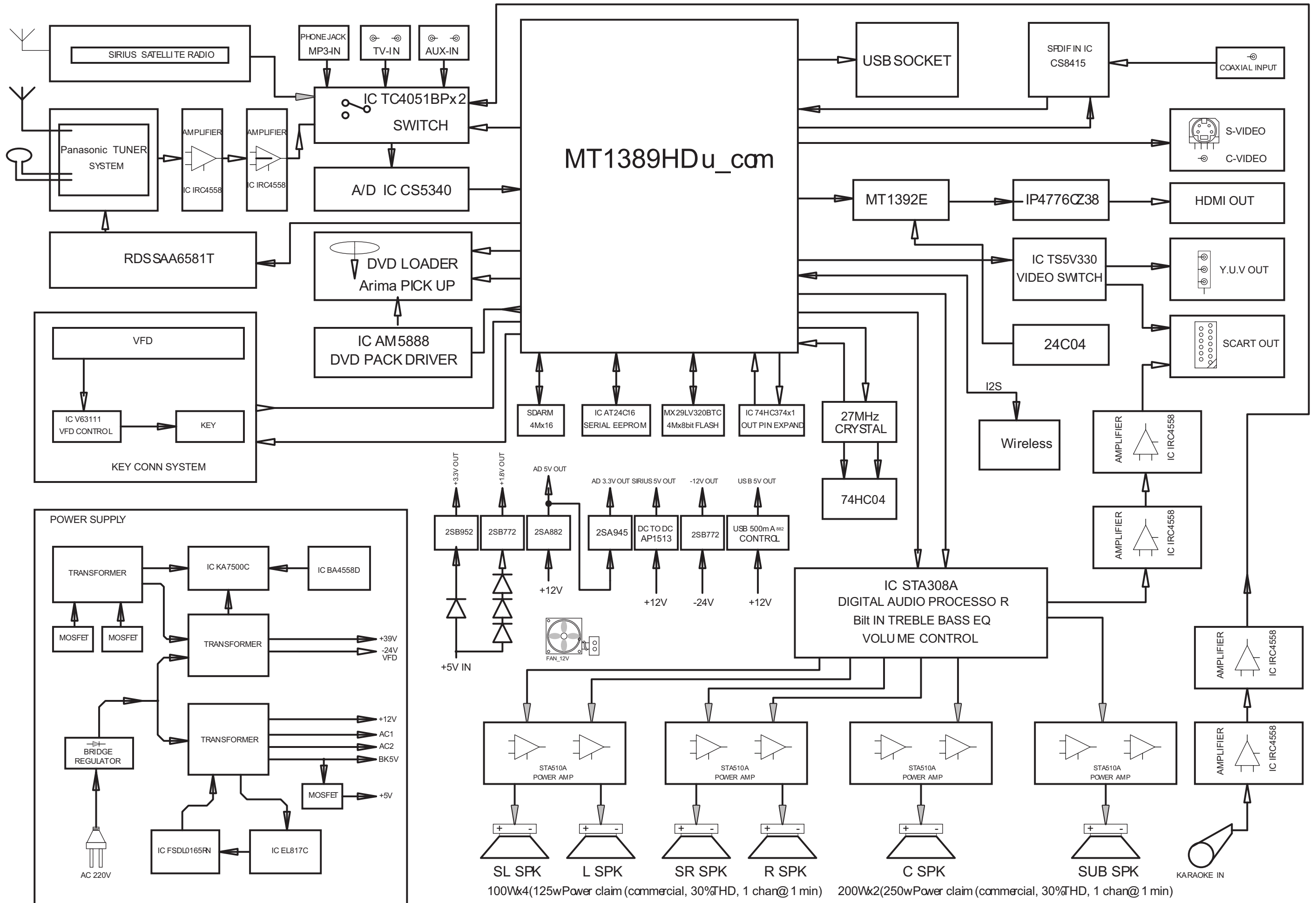


Note: In some service positions the components or copper patterns of one board may risk touching its neighbouring pc boards or metallic parts. To prevent such short-circuit use a piece of hard paper or other insulating material between them.

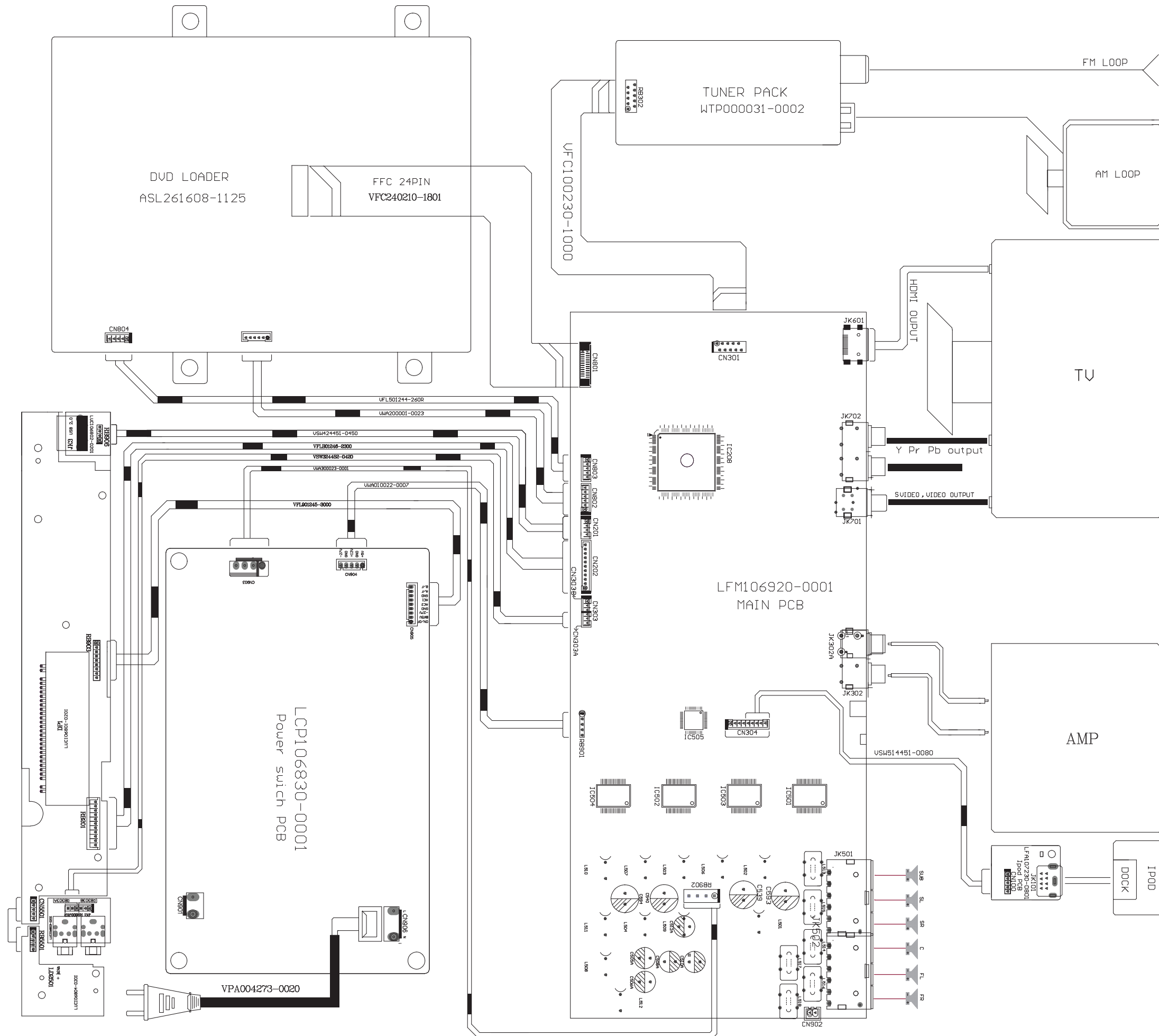
Service position B



BLOCK DIAGRAM



100Wx4(125wPower claim (commercial, 30%THD, 1 chan@1 min) 200Wx2(250wPower claim (commercial, 30%THD, 1 chan@1 min)



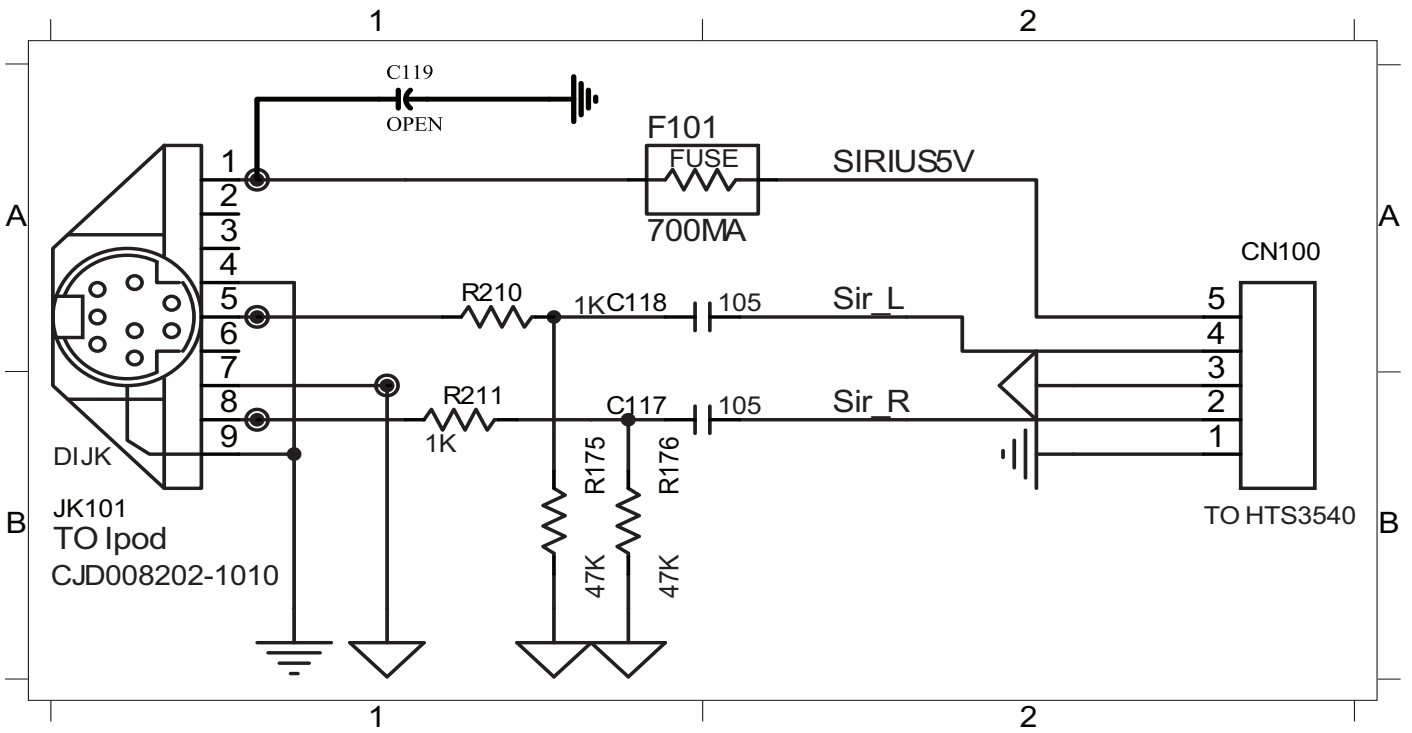
IPOD BOARD

TABLE OF CONTENTS	
Circuit Diagram.....	5-2
PCB Layout Top & Bottom View.....	5-3

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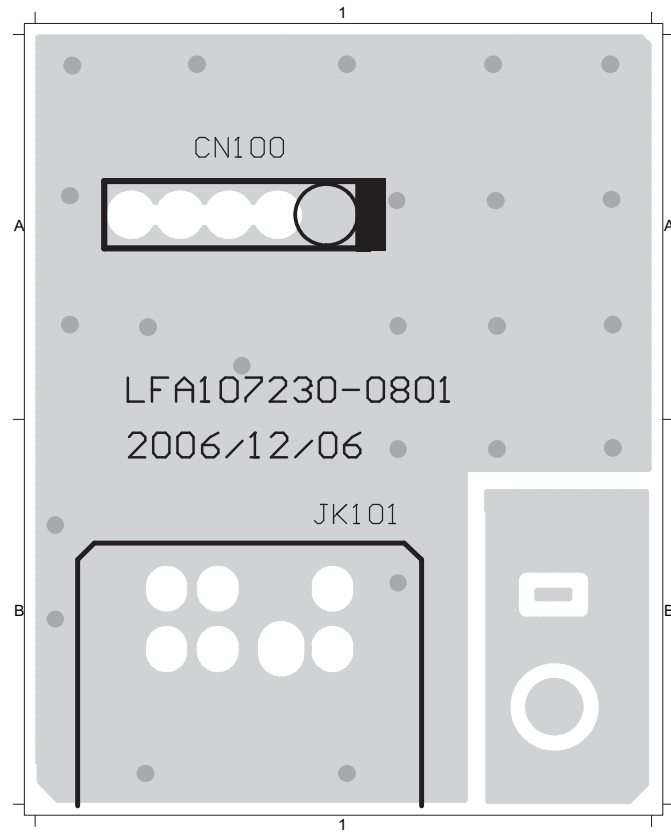
CIRCUIT DIAGRAM

C117	B1	CN100	A2	R175	B1	R210	A1
C118	A1	F101	A1	R176	B1	R211	A1



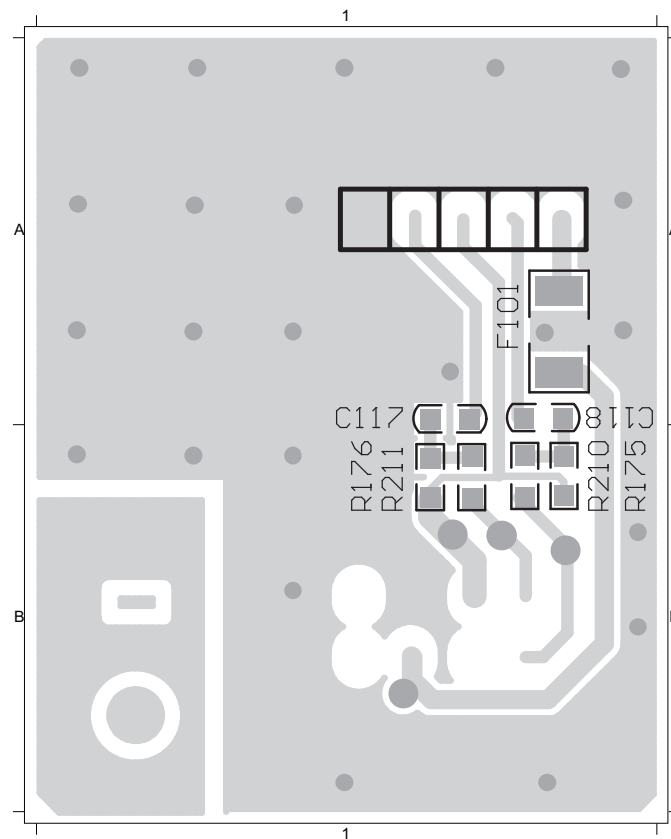
PCB LAYOUT TOP VIEW

CN100 A1
JK101 B1



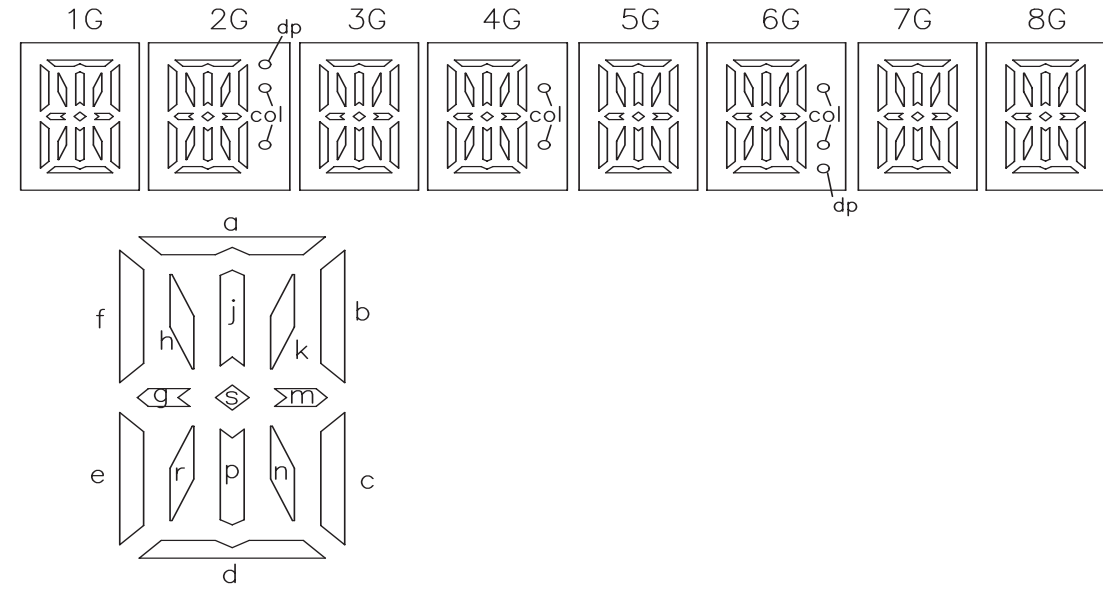
PCB LAYOUT Bottom VIEW

C117 B1 F101 A1 R176 B1 R211 B1
C118 B1 R175 B1 R210 B1



CONTROL BOARD

TABLE OF CONTENTS
 FTD Display Pin Assignment.....6-1
 Voltage6-2
 Circuit Diagram.....6-3
 PCB Layout Top & Bottom View.....6-4
 I



	1G	2G	3G	4G	5G	6G	7G	8G
P1	a	a	a	a	a	a	a	a
P2	j, p	j, p	j, p	j, p	j, p	j, p	j, p	j, p
P3	h	h	h	h	h	h	h	h
P4	k	k	k	k	k	k	k	k
P5	b	b	b	b	b	b	b	b
P6	f	f	f	f	f	f	f	f
P7	m	m	m	m	m	m	m	m
P8	g	g	g	g	g	g	g	g
P9	c	c	c	c	c	c	c	c
P10	e	e	e	e	e	e	e	e
P11	r	r	r	r	r	r	r	r
P12	n	n	n	n	n	n	n	n
P13	d	d	d	d	d	d	d	d
P14	—	dp	—	col	—	col	—	—
P15	s	s	s	s	s	s	s	s
P16	—	col	—	—	—	dp	—	—

PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CONNECTION	F	F	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12
PIN NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CONNECTION	P13	P14	P15	P16	1G	2G	3G	4G	5G	6G	7G	8G	NP	F	F

Note : F: Filament P: Anode G: Grid NP: No pin

VOLTAGE

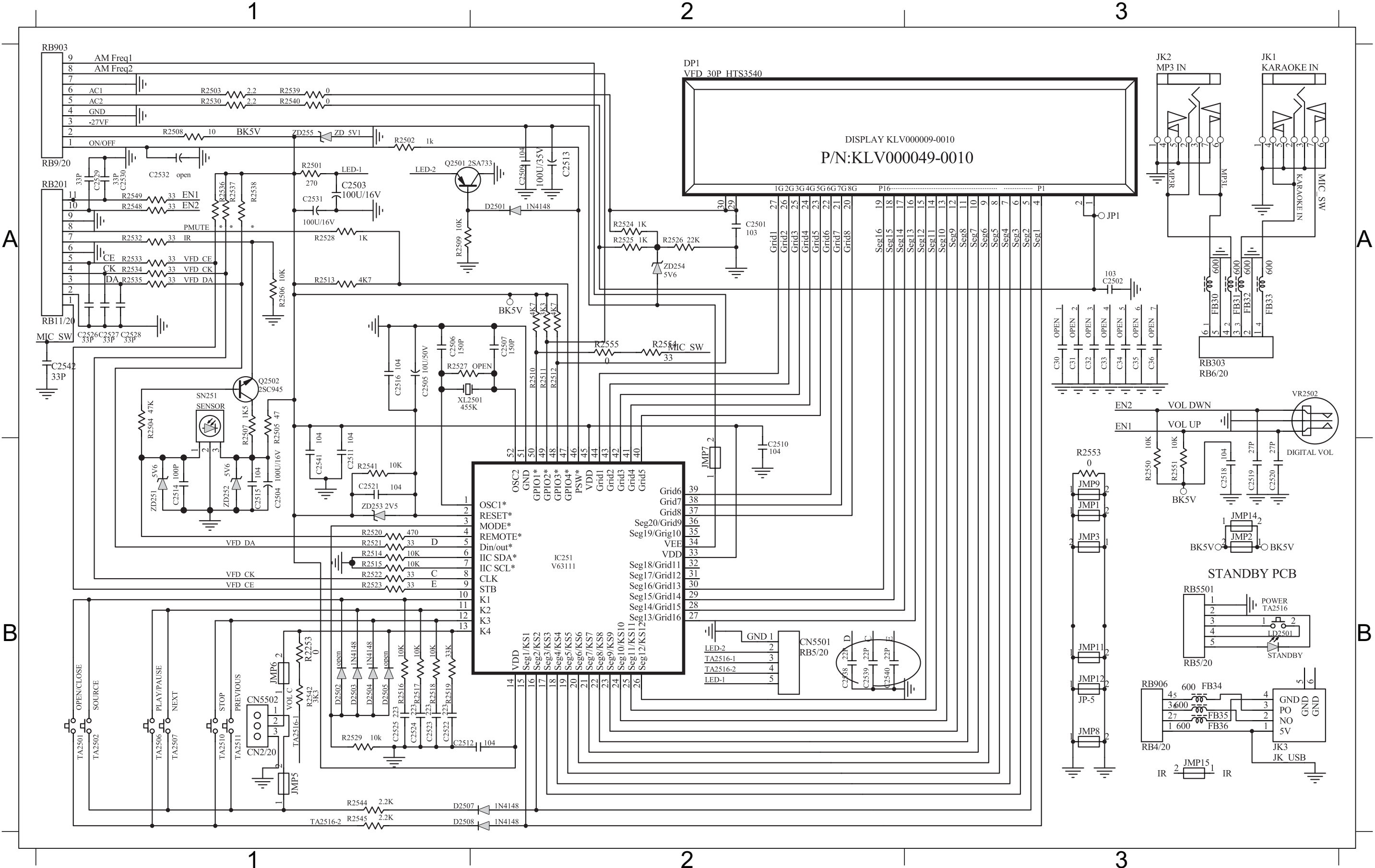
IC251																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	4.70	-23.00	-26.00	-23.00	-23.00	-21.00	-21.00	-23.00	-23.00	-21.00	-21.00	-23.00	-23.00	-23.00	-26.00	-21.00	-26.00	-26.00	-23.00	4.70
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Voltage	-26.00	-23.00	-23.00	-22.00	-22.00	-24.00	-24.00	-24.00	-24.00	-24.00	-24.00	4.70	4.70	0.00	0.00	0.00	4.70	0.00	2.30	2.30
Pin NO	41	42	43	44	45	46	47	48	49	50	51	52								
Voltage	4.70	0.00	4.00	3.20	0.00	0.00	3.20	3.20	0.00	0.00	0.00	0.00								

Q2501			
Pin NO	b	c	e
Voltage	4.10	0.00	3.60

Q2502			
Pin NO	b	c	e
Voltage	4.30	4.10	3.70

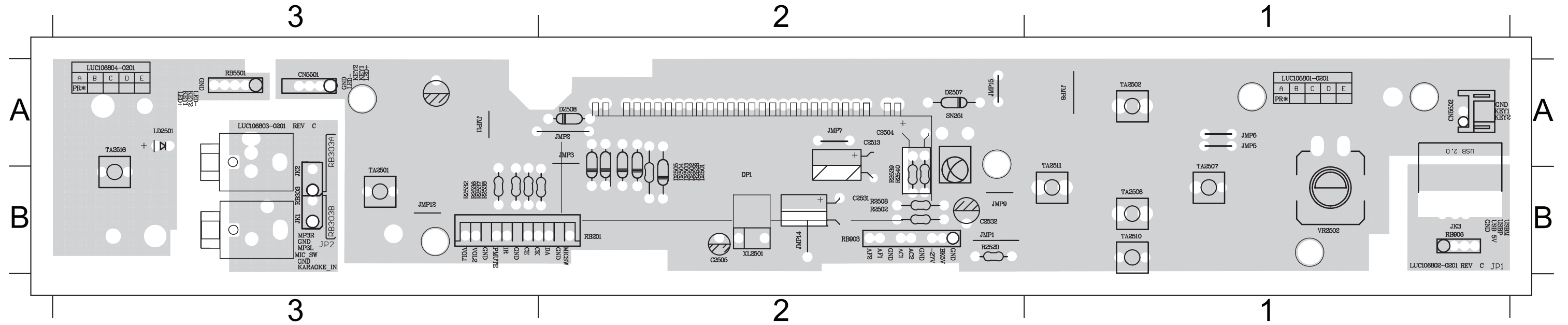
CIRCUIT DIAGRAM

C2501 A3	C2509 A2	C2515 B1	C2522 B1	C2528 A1	C2540 B2	D2507 B1	FB35 B3	JMP11 B3	JMP5 B1	LD2501 B3	R2503 A1	R2509 A1	R2517 B1	R2523 B1	R2530 A1	R2540 A1	R2549 A1	RB903 A1	TA2507 B1	ZD251 B1
C2502 A3	C2510 B2	C2516 A1	C2523 B1	C2529 A1	C2541 B1	D2508 B1	FB36 B3	JMP12 B3	JMP6 B1	Q2501 A1	R2504 A1	R2510 A2	R2518 B1	R2524 A2	R2532 A1	R2541 B1	R2553 B3	RB906 B3	TA2510 B1	ZD252 B1
C2504 B1	C2511 B1	C2518 B3	C2524 B1	C2530 A1	C2542 A1	DP1 A2	IC251 B2	JMP14 B3	JMP7 B2	Q2502 A1	R2505 A1	R2513 A1	R2519 B1	R2525 A2	R2533 A1	R2542 B1	R2554 A2	SN251 A1	TA2511 B1	ZD253 B1
C2505 A1	C2512 B1	C2519 B3	C2525 B1	C2531 A1	D2501 A2	FB30 A3	JK2 A3	JMP15 B3	JMP8 B3	R2253 B1	R2506 A1	R2514 B1	R2520 B1	R2526 A2	R2534 A1	R2544 B1	RB201 A1	TA2501 B1	TA2516 B1	ZD254 A2
C2506 A1	C2513 A2	C2520 B3	C2526 A1	C2538 B2	D2503 B1	FB31 A3	JK3 B3	JMP2 B3	JMP9 B3	R2501 A1	R2507 A1	R2515 B1	R2521 B1	R2528 A1	R2535 A1	R2545 B1	RB303AA3	TA2502 B1	VR2502A3	ZD255 A1
C2507 A2	C2514 B1	C2521 B1	C2527 A1	C2539 B2	D2504 B1	FB34 B3	JMP1 B3	JMP3 B3	JP1 A3	R2502 A1	R2508 A1	R2516 B1	R2522 B1	R2529 B1	R2539 A1	R2548 A1	RB5501B3	TA2506 B1	XL2501 A2	



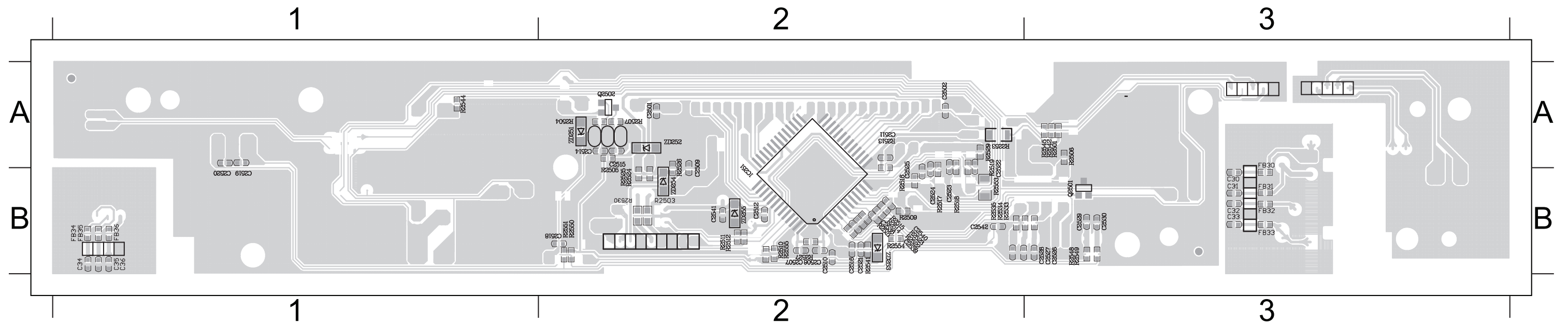
PCB LAYOUT - TOP VIEW

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C2505	B2	D2501	B2	D2507	A2	JK2	B3	JMP11	A3	JMP15	A2	JMP5	A1	JMP8	A1	JP2	B3	R2508	B2	R2532	B3	RB201	B2	RB903	B2	TA2501	A3	TA2507	B1	TA2516	A3		
C2513	A2	D2503	B2	D2508	A2	JK3	B1	JMP12	B3	JMP2	A2	JMP6	A1	JMP9	B2	LD2501	A3	R2520	B2	R2539	B2	RB303A	B3	RB906	B1	TA2502	A1	TA2510	B1	VR2502	B1		



PCB LAYOUT - BOTTOM VIEW

C2501	A2	C2509	B2	C2514	A2	C2519	B1	C2523	B2	C2527	B3	C2538	B2	C2542	B2	FB35	B1	Q2502	A2	R2504	A2	R2509	B2	R2515	B2	R2519	B2	R2524	B2	R2530	B2	R2541	B2	R2548	B3	ZD251	A2	ZD255	B2
C2502	A2	C2510	B2	C2515	A2	C2520	B1	C2524	B2	C2528	B3	C2539	B2	FB30	B3	FB36	B1	R2253	A2	R2505	B2	R2510	B2	R2516	B2	R2521	B2	R2525	B2	R2533	B2	R2542	A3	R2549	B3	ZD252	A2		
C2506	B2	C2511	A2	C2516	B2	C2521	B2	C2525	A2	C2529	B3	C2540	B2	FB31	B3	IC251	B2	R2501	A3	R2506	A3	R2513	A2	R2517	B2	R2522	B2	R2526	B2	R2534	B2	R2544	A1	R2553	B2	ZD253	B2		
C2507	B2	C2512	B2	C2518	B2	C2522	B2	C2526	B3	C2530	B3	C2541	B2	FB34	B1	Q2501	B3	R2503	B2	R2507	A2	R2514	B2	R2518	B2	R2523	B2	R2529	A2	R2535	B2	R2545	A3	R2554	B2	ZD254	B2		



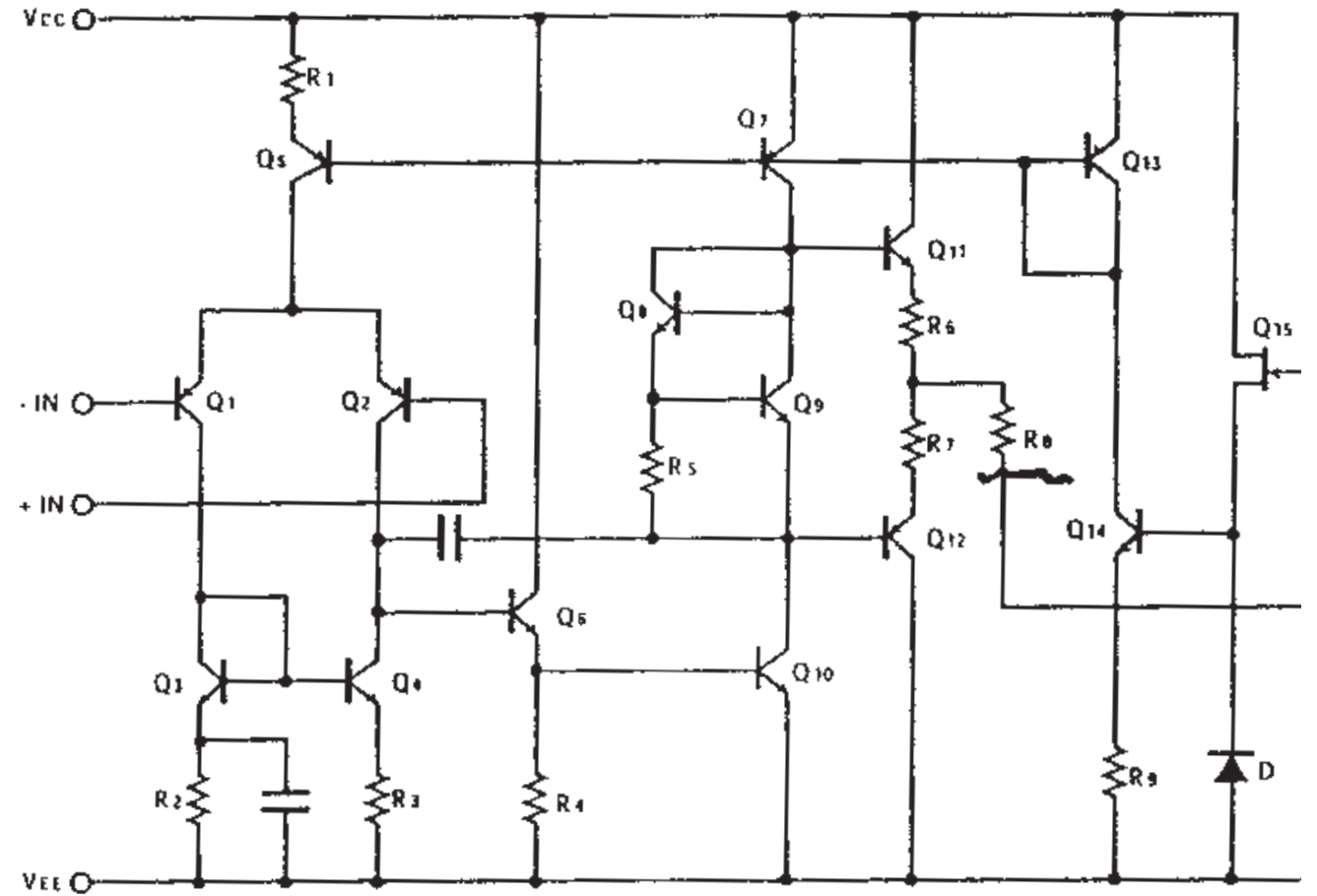
MAIN BOARD

TABLE OF CONTENTS

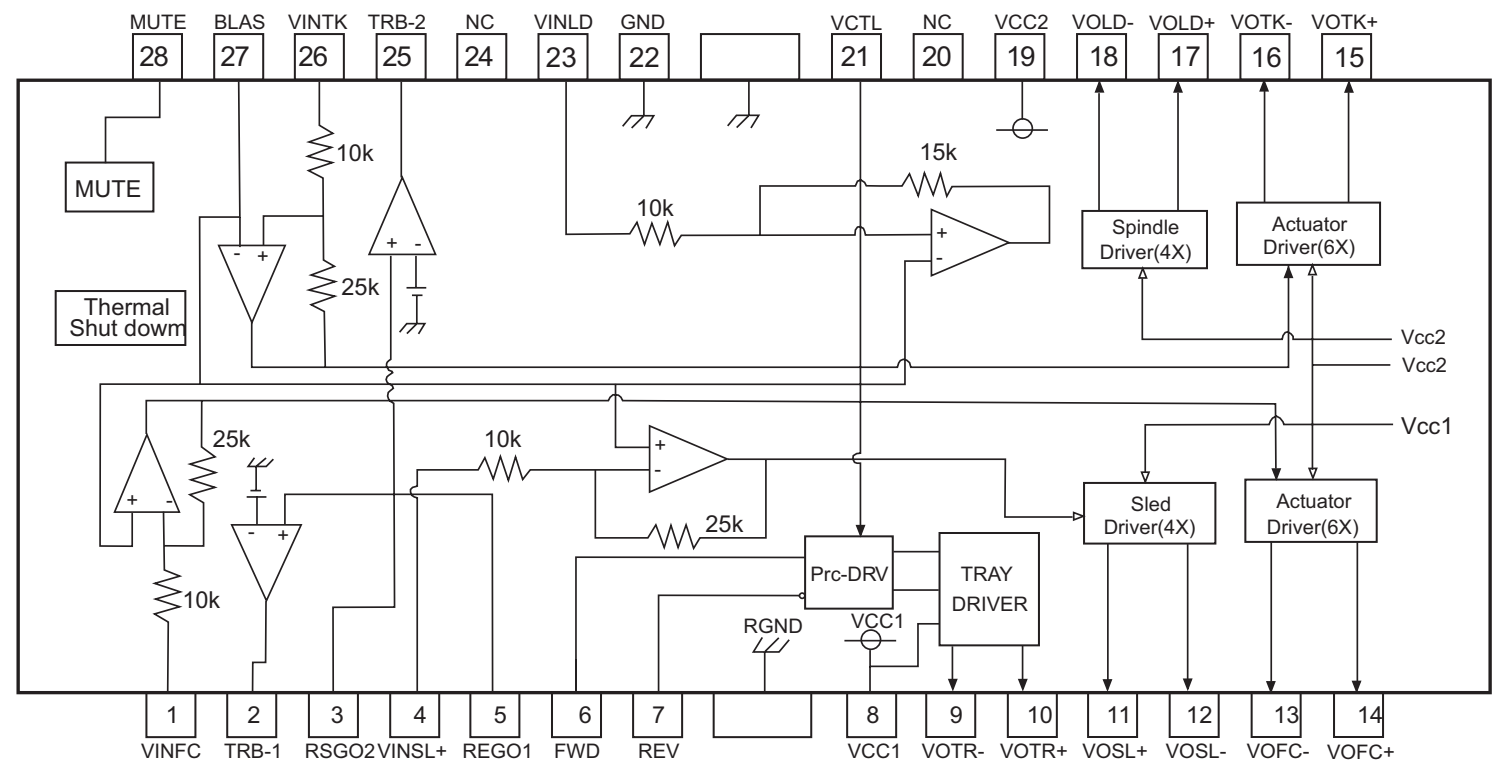
Internal IC Diagram	7-1
Circuit Diagram (Amplifier - Top Left)	7-2
Circuit Diagram (Amplifier - Top Right)	7-3
Circuit Diagram (Amplifier - Bottom Left)	7-4
Circuit Diagram (Amplifier - Bottom Right)	7-5
Circuit Diagram (Servo - Top Left)	7-6
Circuit Diagram (Servo - Top Right)	7-7
Circuit Diagram (Servo - Bottom Left)	7-8
Circuit Diagram (Servo - Bottom Right)	7-9
PCB Layout Top View	7-10
PCB Layout Bottom View	7-11
Voltage	7-12

I

7-1
INTERNAL IC DIAGRAM - CO4558A HOSP



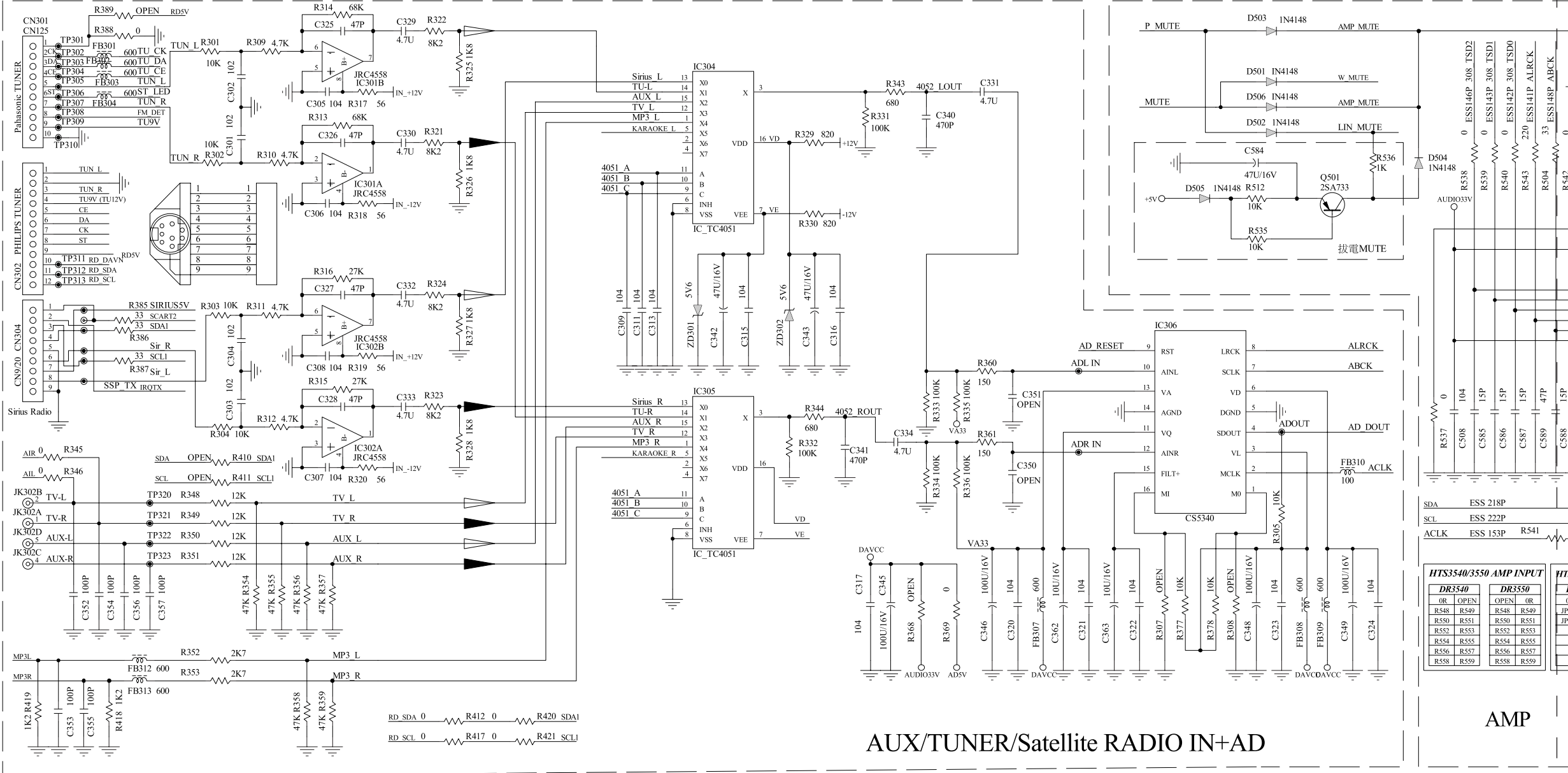
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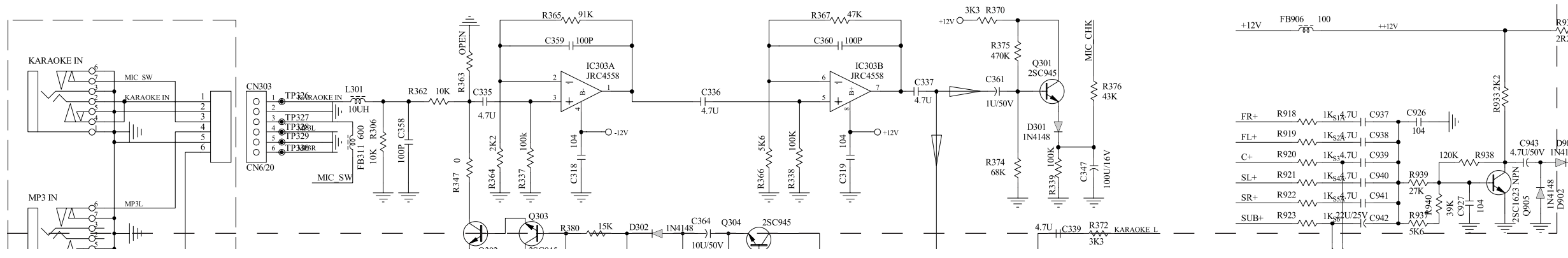
Circuit Diagram (Amplifier - Top Left)

1 2 3

A



B



C0101	D4	C530	A5	C922	D1
C0102	D4	C531	C5	C923	D2
C0103	D4	C532	C5	C924	D1
C0104	D4	C533	B5	C925	D2
C0105	D4	C534	C5	C926	B3
C0106	D4	C535	B5	C927	B3
C0107	D4	C536	A5	C928	D1
C0109	D4	C537	A5	C929	D1
C0110	D4	C538	A5	C930	D2
C0111	D4	C539	C5	C931	D2
C0112	D4	C540	B5	C932	D1
C0113	D4	C541	C5	C933	D2
C0114	D4	C542	B5	C935	D2
C0115	D5	C543	B5	C936	D2
C0116	D5	C544	B5	C937	B3
C0117	D5	C545	A5	C938	B3
C0118	D5	C546	A5	C939	B3
C0119	D5	C547	C5	C940	B3
C0120	D5	C548	C5	C941	B3
C0121	D5	C549	C5	C942	B3
C0501	B3	C550	C5	C943	B3
C0502	B4	C551	B5	C944	B3
C0504	B4	C552	B5	C945	C2
C0505	A3	C553	B5	C947	D1
C0506	A3	C554	B5	C952	C2
C0507	A4	C555	B5	C953	C2
C0508	A4	C556	B5	C955	D1
C301	A1	C557	B5	C956	D1
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C303	A1	C559	B5	C958	C5
C304	A1	C560	A5	C958	C5
C305	A1	C561	A5	C958	C5
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C309	A1	C565	B5	C958	C5
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C313	A2	C567	A5	C959	C5
C315	A2	C568	A5	C959	C5
C316	A2	C569	A5	C959	C5
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C320	B2	C571	C5	C930	A1
C321	B2	C572	B5	C930	A1
C322	B2	C573	B5	C930	A1
C323	B3	C574	B5	C930	A1
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C327	A1	C578	B3	D504	A3
C328	A1	C579	B3	D505	A2
C329	A1	C580	B3	D506	A3
C330	A1	C581	B3	D701	D2
C331	A2	C582	B3	D702	D3
C332	A1	C583	B4	D703	D3
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C341	A2	C587	A3		
C342	A2	C588	A3		
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C506	B4	C726	D2		
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C511	A4	C736	D3		
C512	B5	C737	D3		
C513	A4	C901	D1		
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C526	A4	C918	D2		
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AUX/TUNER/Satellite RADIO IN+AD

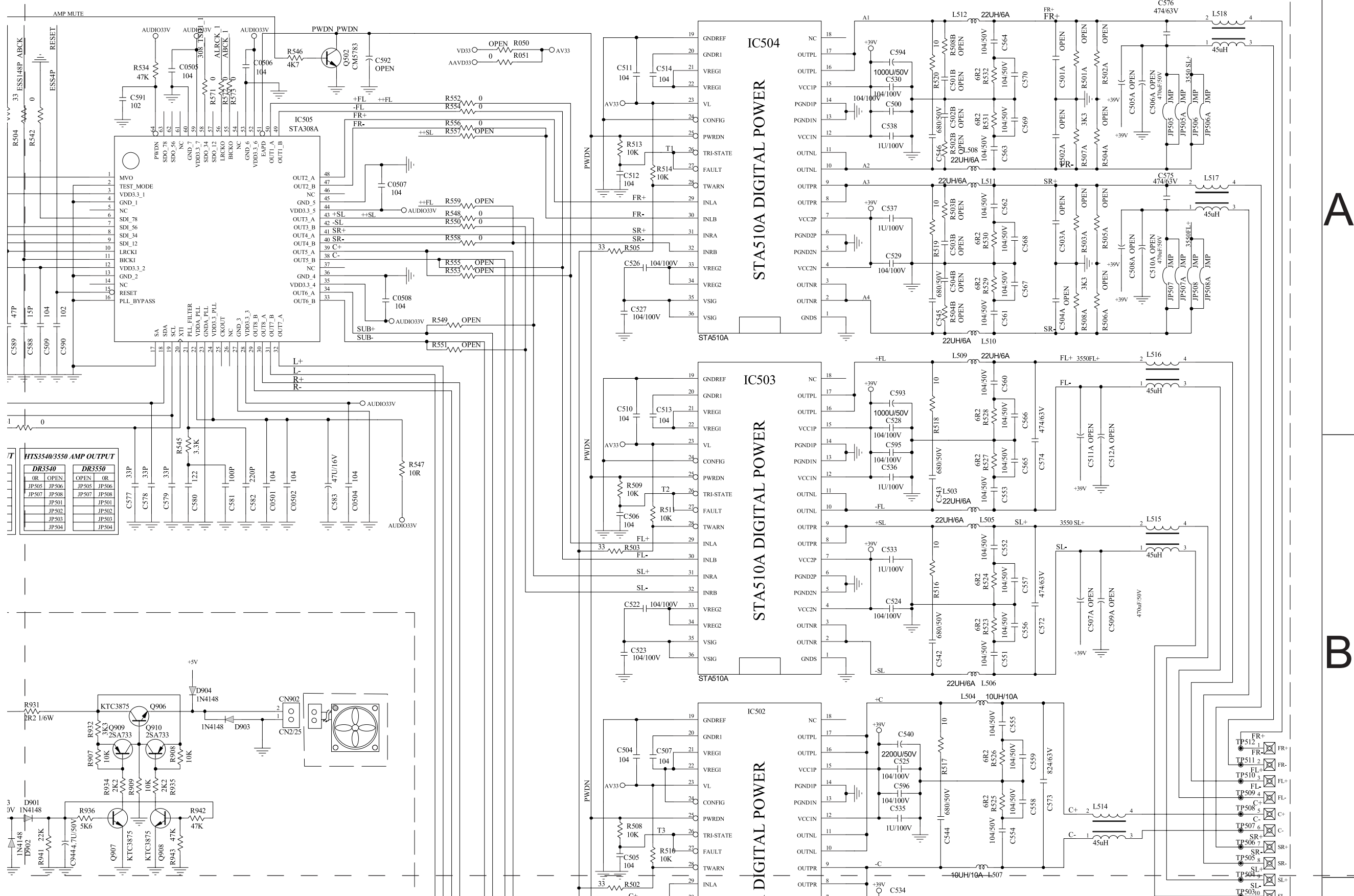
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R550	R551	R550	R551
R552	R553	R552	R553
R554	R555	R554	R555
R556	R557	R556	R557
R558	R559	R558	R559

AMP

3

4

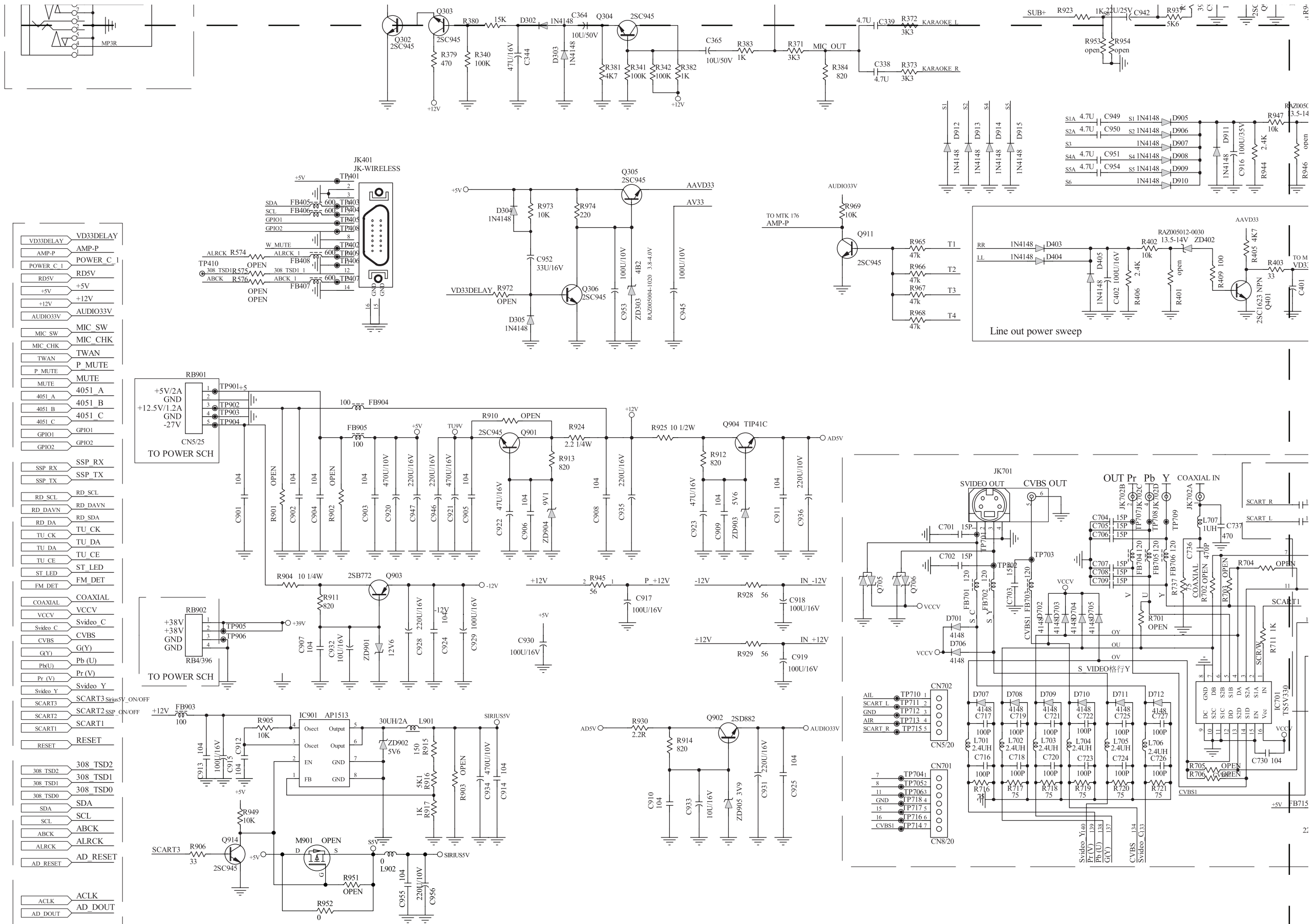
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D706	D2	R318	A1	R911	D1
D707	D2	R319	A1	R912	C2
D708	D2	R320	A1	R913	C2
D709	D3	R321	A1	R914	D2
D710	D3	R322	A1	R918	B3
D711	D3	R323	A1	R919	B3
D712	D3	R324	A1	R920	B3
D901	B3	R325	A1	R921	B3
D902	B3	R326	A1	R922	B3
D903	B4	R327	A1	R923	B3
D904	B3	R328	A1	R924	C2
D905	C3	R329	A2	R925	C2
D906	C3	R330	A2	R926	C3
D907	C3	R331	A2	R927	C3
D908	C3	R332	A2	R928	D2
D909	C3	R333	A2	R929	D2
D910	C3	R334	A2	R930	D2
D911	C3	R335	A2	R931	B3
FB301	A1	R336	A2	R932	B3
FB302	A1	R343	A2	R933	B3
FB303	A1	R344	A2	R934	B3
FB304	A1	R345	A1	R935	B3
FB307	B2	R346	A1	R936	B3
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FB310	A3	R350	A1	R939	B3
FB312	B1	R351	B1	R940	B3
FB313	B1	R352	B1	R941	B3
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FB702	D2	R354	B1	R943	B3
FB703	D2	R355	B1	R944	C3
FB704	D3	R356	B1	R945	D2
FB705	D3	R357	B1	R947	C3
FB706	D3	R358	B1	R948	C3
FB715	D3	R359	B1	R949	D1
FB904	C1	R360	A2	R952	D1
FB905	C1	R361	A2	R969	C2
FB906	B3	R362	B2	R970	C4
IC301	A1	R377	B2	R971	C3
IC302	A1	R378	B2	R973	C2
IC304	A2	R385	A1	R974	C2
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IC306	A2	R387	A1	RB902	D1
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IC502	B4	R418	B1	ZD302	A2
IC503	A4	R419	B1	ZD303	C2
IC504	A4	R501	C4	ZD901	D1
IC505	A4	R502	C4	ZD903	D2
JK302	A1	R503	B3	ZD904	D2
JK501	C5	R504	A3	ZD905	D2
JK701	C2	R505	A4	ZD906	C3
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L502	C5	R508	B4		
L503	B5	R509	B4		
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L513	C5	R520	A5		
L514	B5	R521	C5		
L515	B5	R522	C5		
L516	A5	R523	B5		
L517	A5	R524	B5		
L518	A5	R525	B5		
L701	D2	R526	B5		
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Q705	D2	R540	A3		
Q706	D2	R541	A3		
Q901	C2	R542	A3		
Q902	D2	R543	A3		
Q903	D1	R545	B3		
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Q905	B3	R547	B4		
Q906	B3	R548	A4		
Q907	B3	R550	A4		
Q908	B3	R552	A4		
Q909	B3	R554	A4		
Q910	B3	R556	A4		
Q911	C2	R558	A4		
Q912	C4	R571	A3		
Q913	C3	R572	A3		
R051	A4	R573	A3		
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R302	A1	R703	D3		
R303	A1	R706	D3		
R304	A1	R716	D2		
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R309	A1	R718	D3		
R310	A1	R719	D3		
R311	A1	R720	D3		
R312	A1	R721	D3		
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R314	A1	R904	D1		
R315	A1	R907	B3		

A

B



C

D

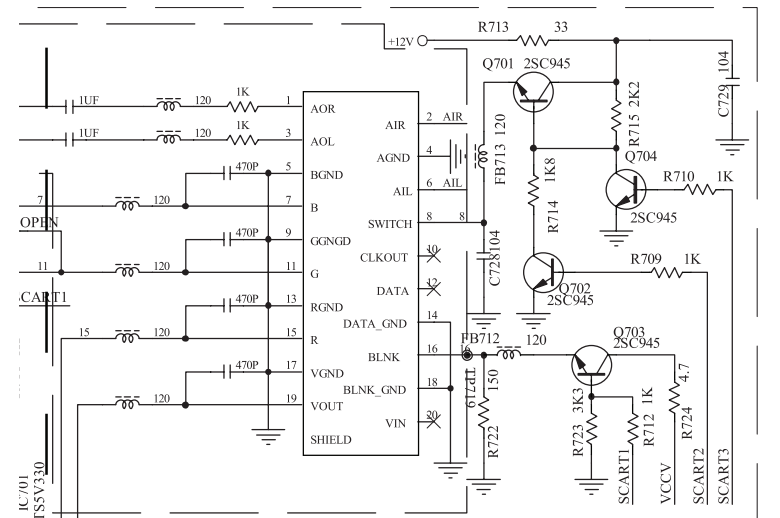
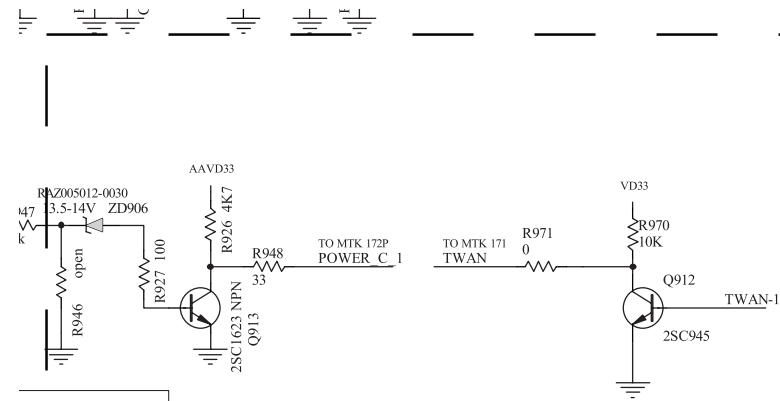
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RD5V	RD5V
+5V	+5V
+12V	+12V
AUDIO33V	AUDIO33V
MIC SW	MIC SW
MIC CHK	MIC CHK
TWAN	TWAN
P MUTE	P MUTE
MUTE	MUTE
4051_A	4051_A
4051_B	4051_B
4051_C	4051_C
GPIO1	GPIO1
GPIO2	GPIO2
SSP_RX	SSP_RX
SSP_TX	SSP_TX
RD_SCL	RD_SCL
RD_DAVN	RD_DAVN
RD_SDA	RD_SDA
TU_CK	TU_CK
TU_DA	TU_DA
TU_CE	TU_CE
ST_LED	ST_LED
FM_DET	FM_DET
COAXIAL	COAXIAL
VCCV	VCCV
Svideo_C	Svideo_C
CVBS	CVBS
G(Y)	G(Y)
Pb(U)	Pb(U)
Pr(V)	Pr(V)
Svideo_Y	Svideo_Y
SCART3	SCART3
SCART2	SCART2
SCART1	SCART1
RESET	RESET
308_TSD2	308_TSD2
308_TSD1	308_TSD1
308_TSD0	308_TSD0
SDA	SDA
SCL	SCL
ABCK	ABCK
ALRCK	ALRCK
AD_RESET	AD_RESET
ACLK	ACLK
AD_DOUT	AD_DOUT

1

2

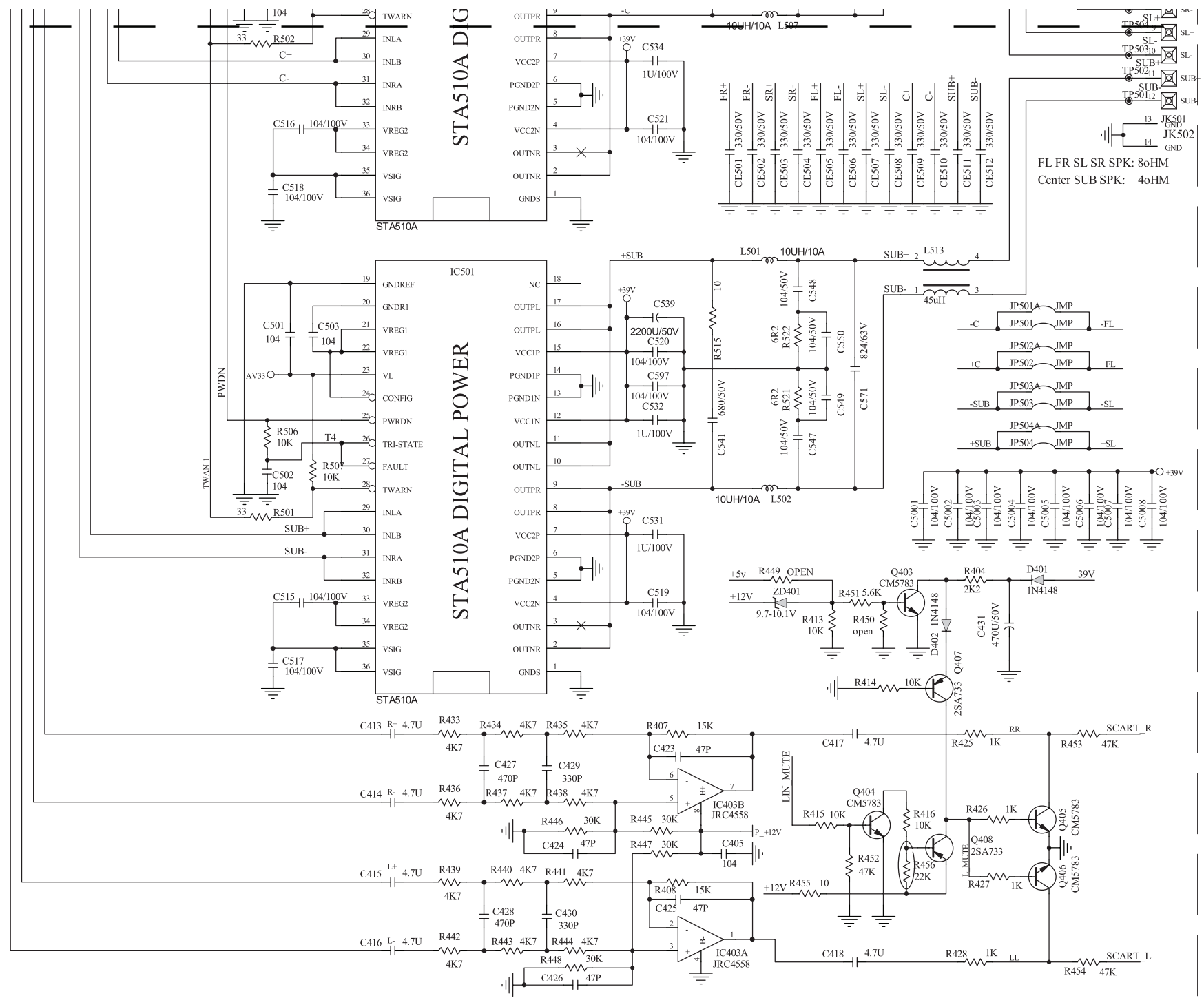
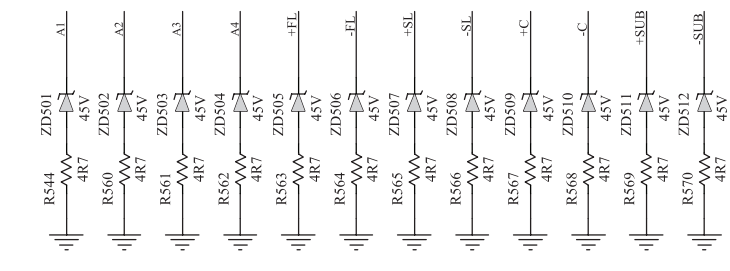
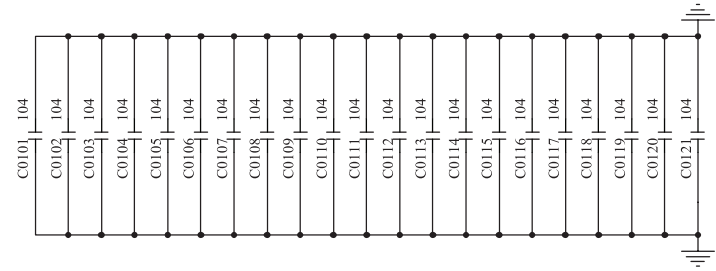
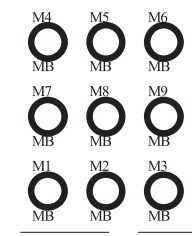
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7-5
Circuit Diagram (Amplifier - Bottom Right)



SCART2 OUT	SCART3 OUT	VIDEO STATUS	8pin V
H LEVEL	L LEVEL	16:9(wide)	4.5-7V
L LEVEL	L LEVEL	4:3(Normal PS/LB)	9.5-12V
	H LEVEL	AUX1/AUX2/RADIO	0-2V

SCART1 OUT	VIDEO STATUS	16pin V
H LEVEL	SCART/RGB	1-3V
L LEVEL	S-VIDEO	0V



C

D

1

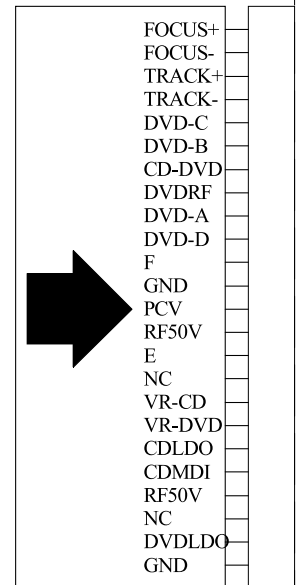
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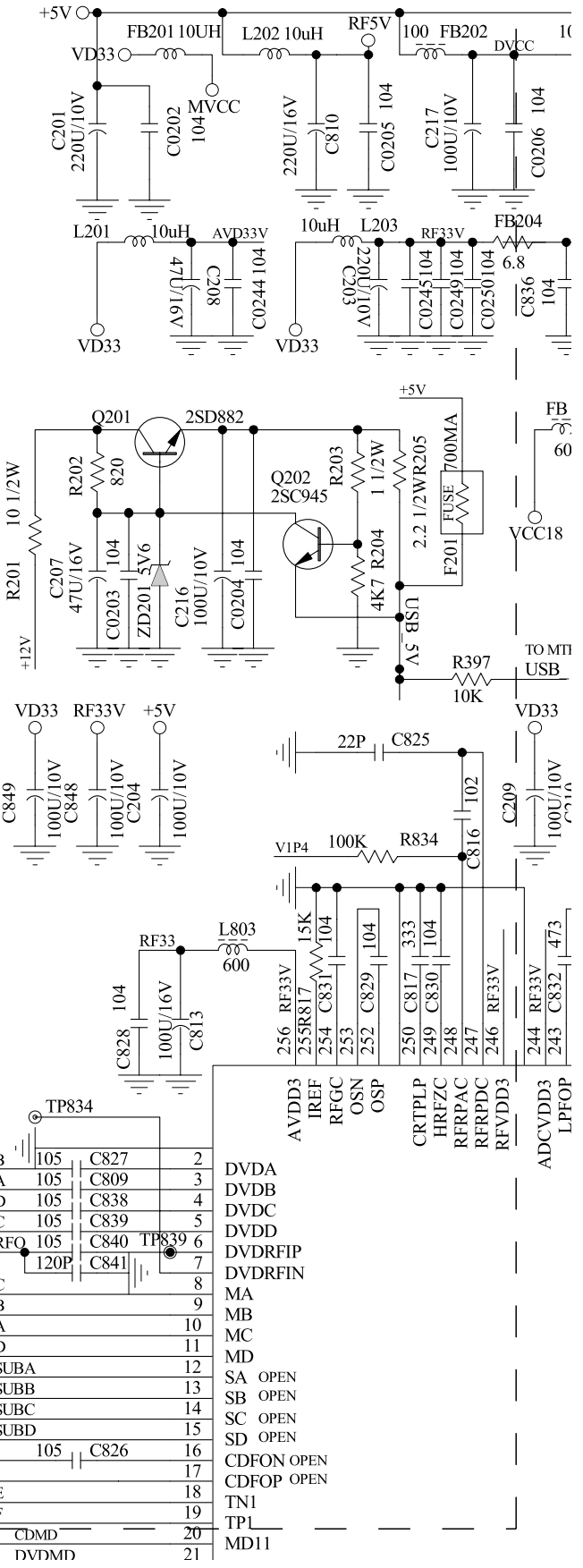
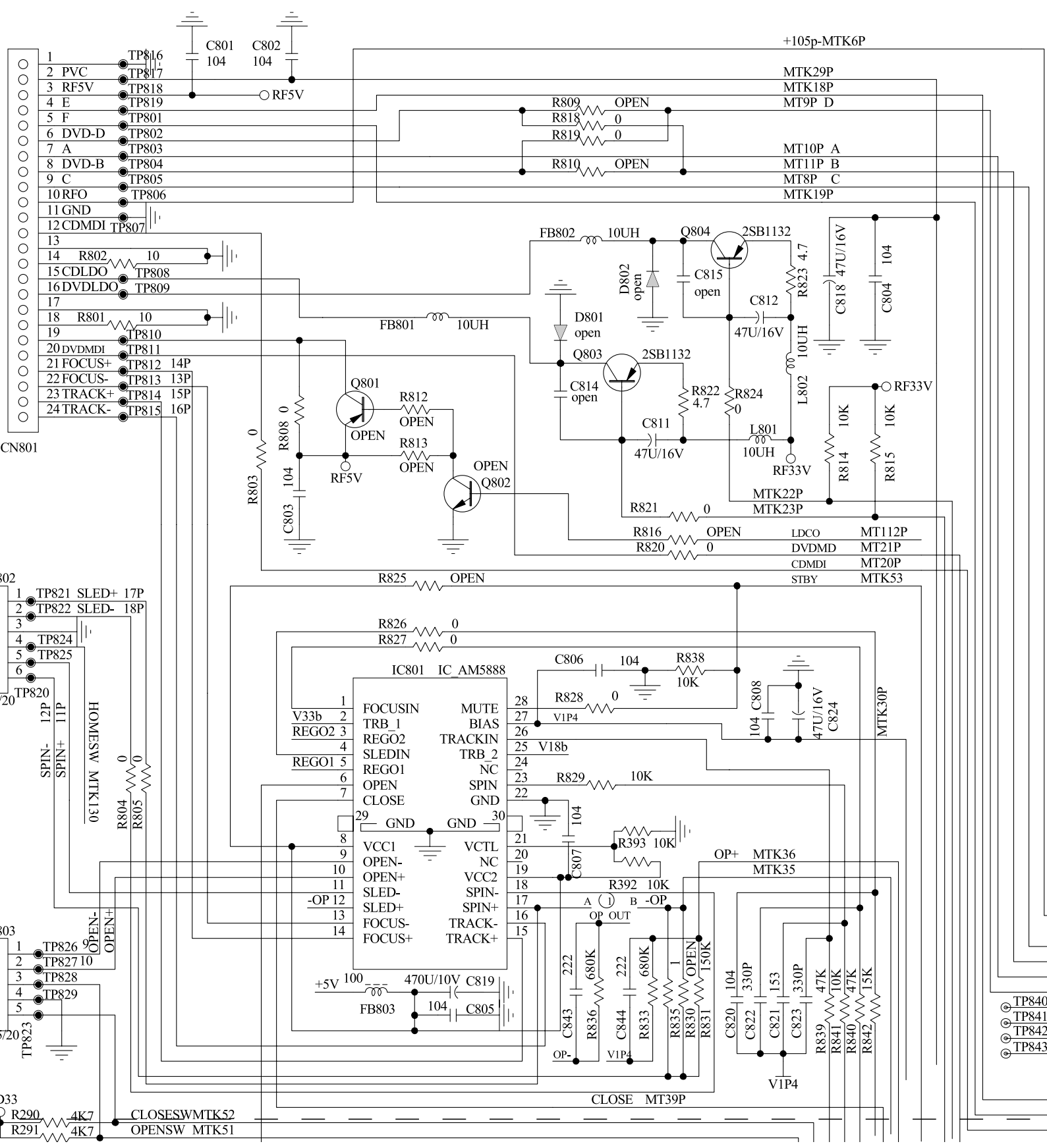
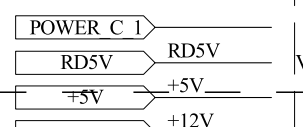
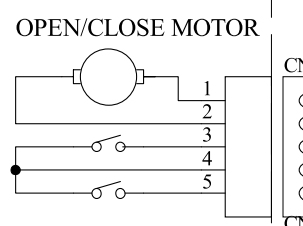
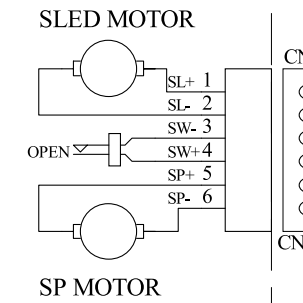
A

B

Arima OPU



DVD-24PIN
VFC240210-1501

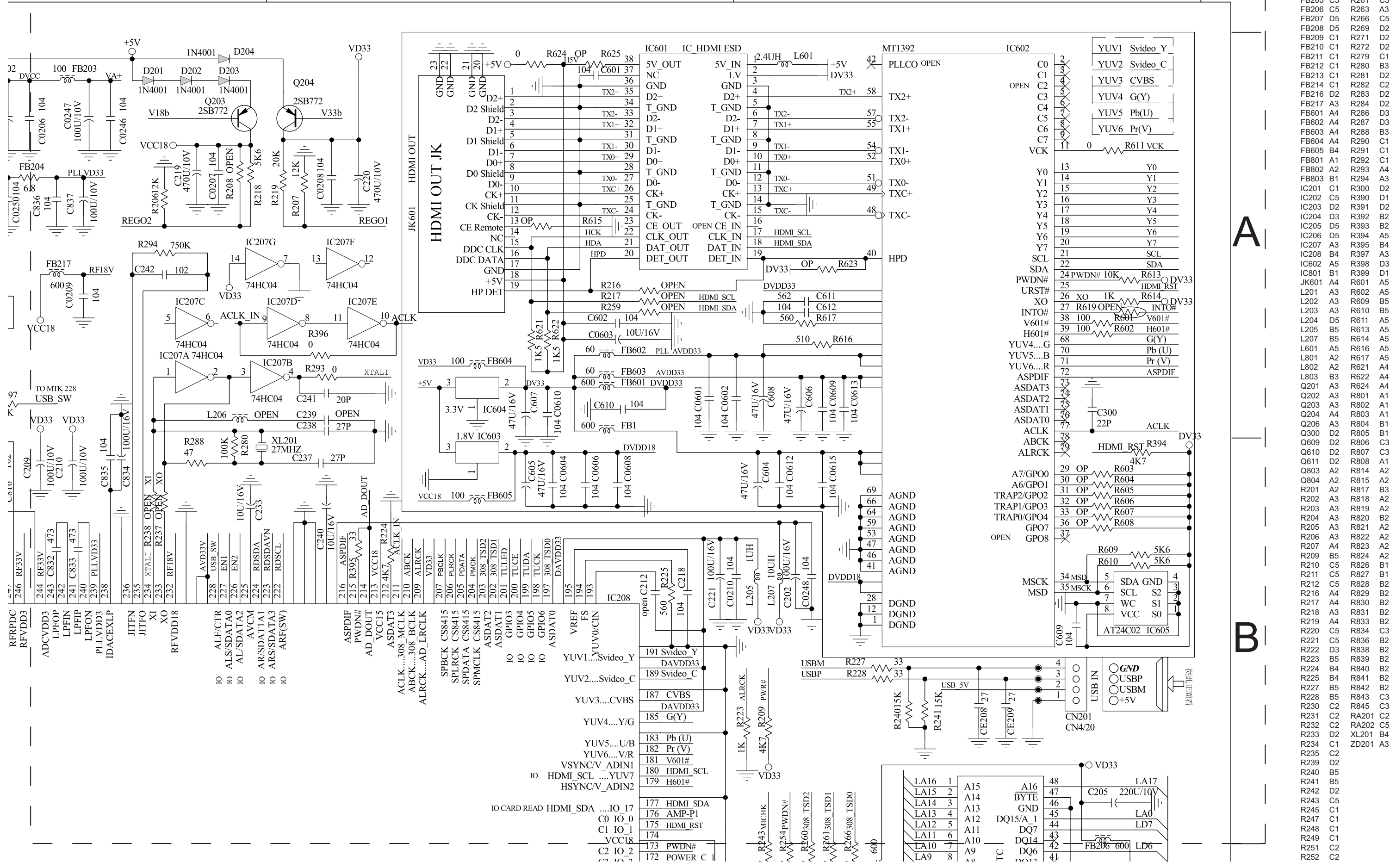


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C0217	D1	C802	A1
C0218	D1	C803	A1
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C0230	D2	C816	B3
C0231	D2	C817	B3
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C0612	B5	C844	B2
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C201	A3	C848	B3
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C211	D5	CE207	C1
C213	C1	CE208	B5
C214	C2	CE209	B5
C215	D2	CE210	C1
C216	A3	CE801	D2
C217	A3	CE802	D2
C218	B4	CE803	D2
C219	A3	CE804	D2
C220	A4	CE805	D2
C221	B4	CE806	D2
C225	C2	CE808	D2
C226	C2	CE809	D2
C227	C2	CN201	B5
C228	C2	CN202	C1
C229	C1	CN203	D4
C230	D2	CN802	B1
C231	D2	CN803	B1
C232	C1	D201	A3
C233	B3	D202	A3
C237	B4	D203	A3
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C240	B4		
C241	A4		
C242	A3		
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3

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A

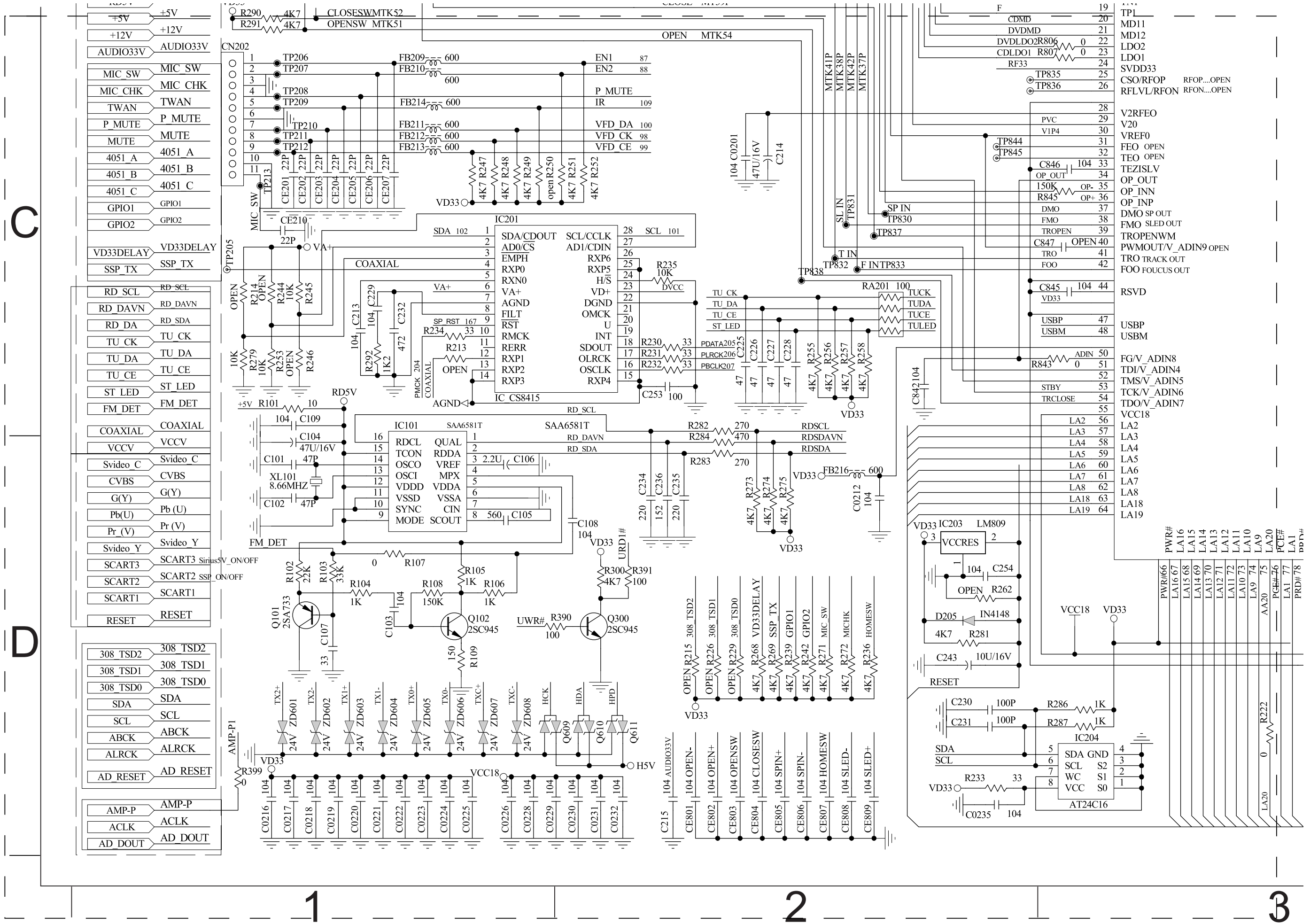
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- Q206 A3 R804 B1
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- Q609 D2 R806 C3
- Q610 D2 R807 C3
- Q611 D2 R808 A1
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- R207 A4 R823 A2
- R209 B5 R824 A2
- R210 C5 R826 B1
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- R212 C5 R828 B2
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- R218 A3 R831 B2
- R219 A4 R833 B2
- R220 C5 R834 C3
- R221 C5 R836 B2
- R222 D3 R838 B2
- R223 B5 R839 B2
- R224 B4 R840 B2
- R225 B4 R841 B2
- R227 B5 R842 B2
- R228 B5 R843 C3
- R230 C2 R845 C3
- R231 C2 RA201 C3
- R232 C2 RA202 C5
- R233 D2 XL201 B4
- R234 C1 ZD201 A3
- R235 C2
- R239 D2
- R240 B5
- R241 B5
- R242 D2
- R243 C5
- R245 C1
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- R248 C1
- R249 C1
- R251 C2
- R252 C2

Circuit Diagram (Servo - Bottom Left)

7 - 8

7 - 8

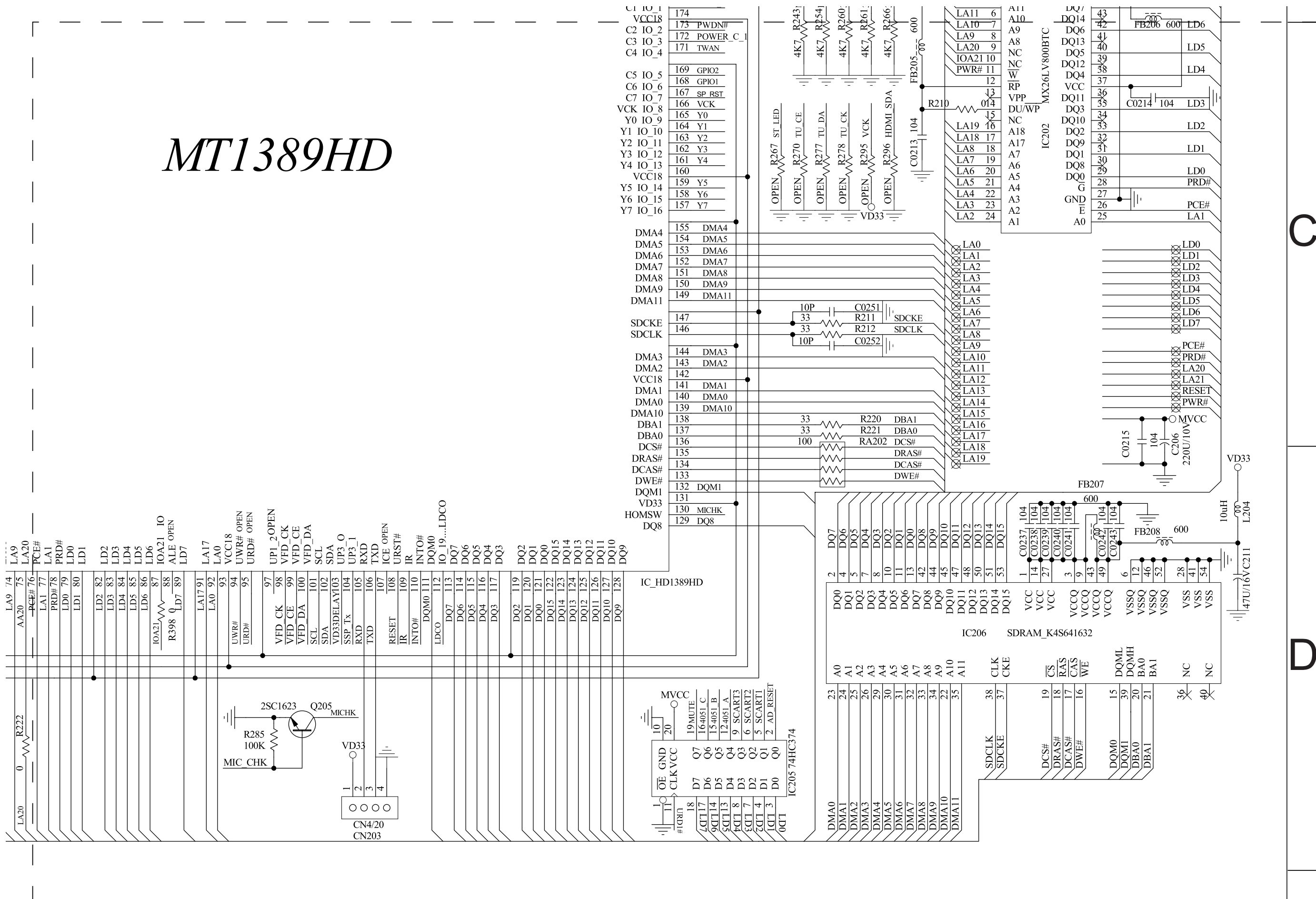


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MT1389HD



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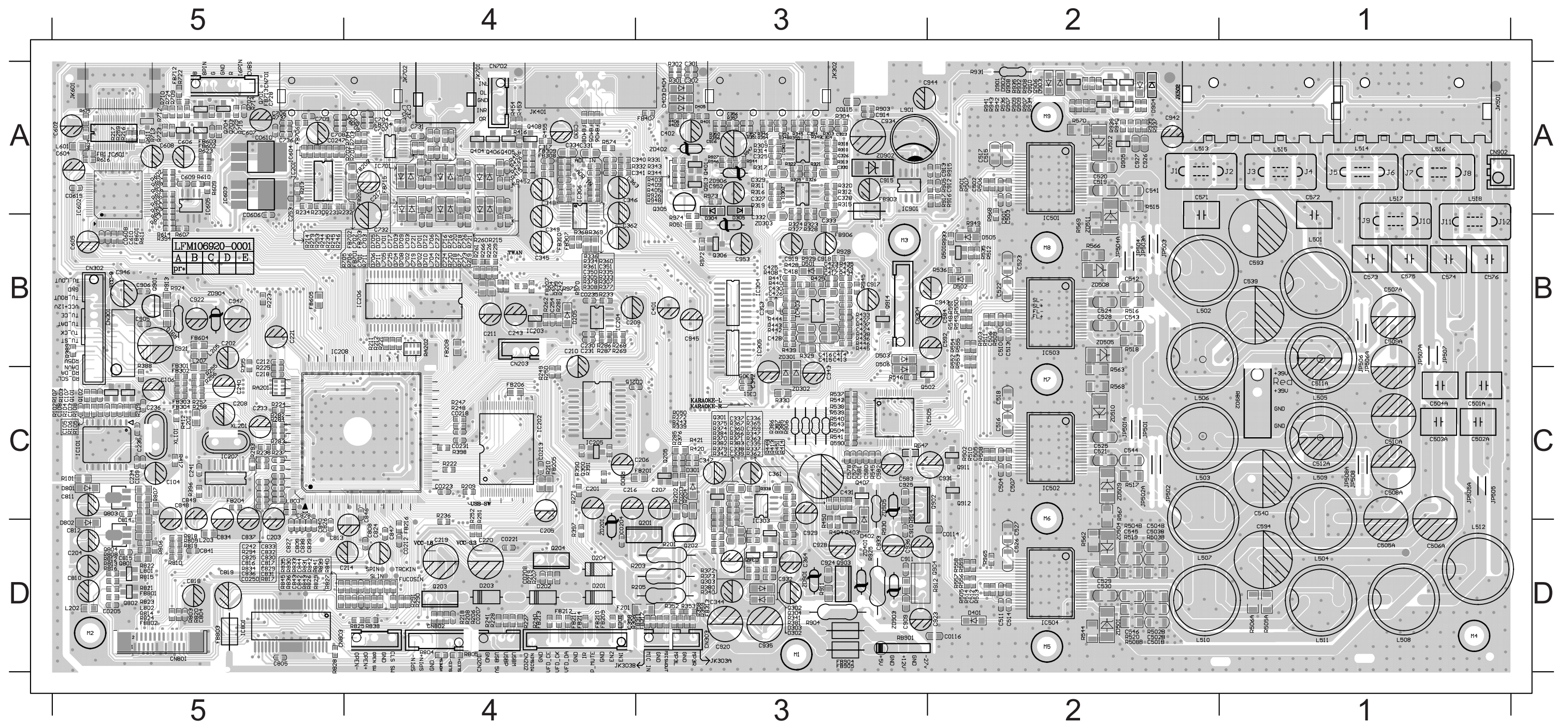
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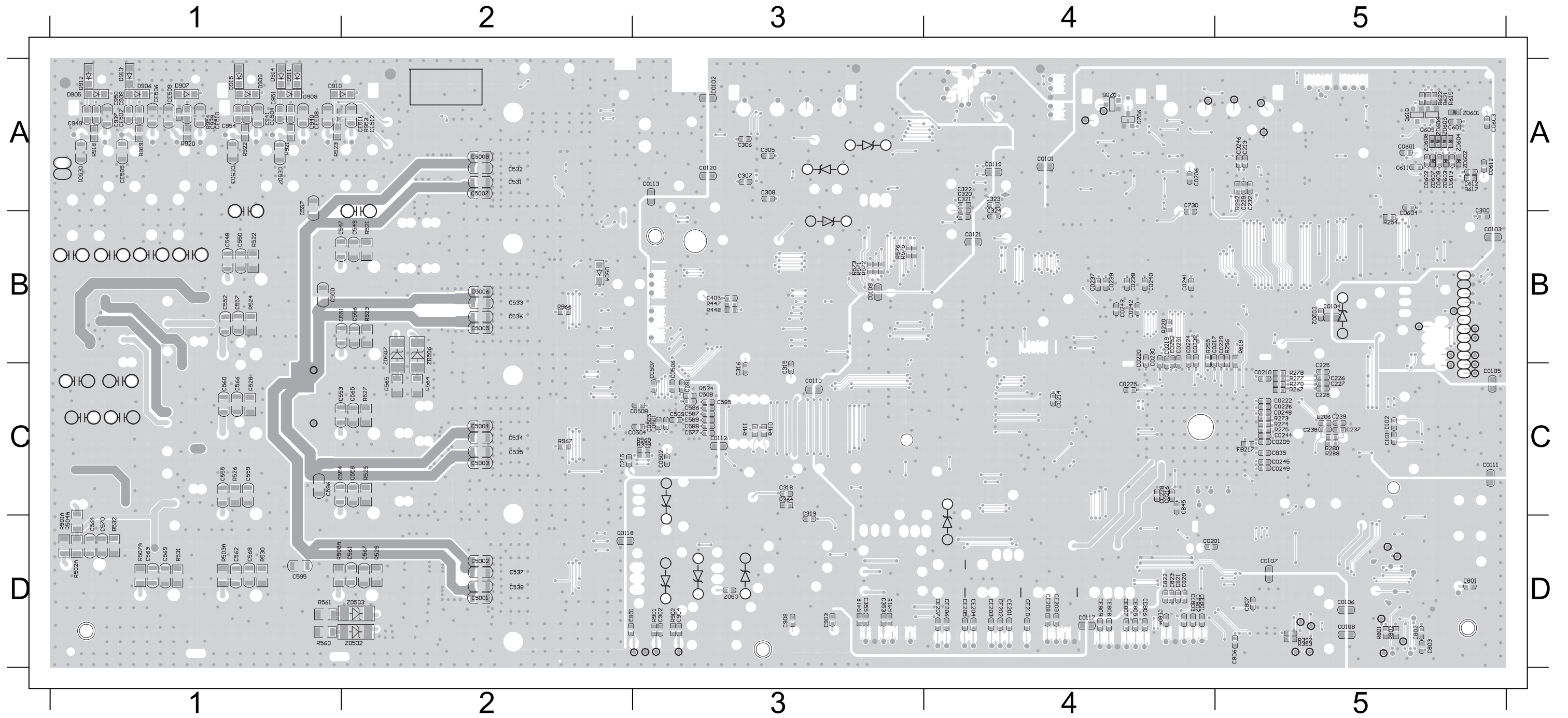
PCB Layout Top View

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C0115	A3	C205	D4	C303	A3	C354	A3	C521	C2	C578	C3	C708	A5	C813	D5	C846	C4	C933	D3	D304	A3	FB203	A4	FB603	A5	IC301	A3	L204	B4	L704	B4	Q906	A2	R222	C4	R256	C5	R304	A3	R332	A4	R378	B4	R518	B2	R613	B5	R820	D5	R911	D3	R945	B3
C0116	D2	C206	C4	C304	A3	C356	A3	C522	B2	C579	C3	C709	A5	C816	D5	C848	C5	C935	D3	D305	A3	FB204	C5	FB604	B5	IC302	A3	L205	B5	L705	B4	Q907	A2	R223	B5	R257	C5	R305	B4	R333	B4	R385	C3	R519	D2	R614	B5	R821	D5	R912	D2	R947	A3
C0203	C3	C207	C4	C309	C3	C357	A3	C523	B2	C580	C3	C716	B4	C817	D5	C849	C5	C936	D3	D503	B3	FB205	C4	FB605	B5	IC303	B3	L207	B5	L706	B4	Q908	A2	R224	C5	R258	C5	R309	A3	R334	B4	R386	C3	R520	D2	R616	A5	R822	D5	R913	B5	R948	A3
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C0207	D4	C210	B4	C317	A4	C501	A2	C526	D2	C583	C3	C719	B4	C824	D4	C909	D3	C944	A3	D701	B4	FB208	B4	FB703	B4	IC501	A2	L503	C2	L802	D5	Q911	C2	R228	D4	R263	B4	R312	A3	R343	A3	R390	C4	R538	C3	R703	A4	R826	D5	R925	D3	R971	B4
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C0215	C4	C217	A4	C328	A3	C505	C2	C530	D2	C594	D1	C723	B4	C828	C5	C917	B3	C953	B3	D705	B4	FB212	D4	FB715	A4	IC505	C3	L507	D2	Q202	D3	R201	D3	R233	B4	R272	C3	R316	A3	R348	A3	R397	D4	R542	C3	R718	B4	R830	D5	R929	B3	RA202	B4
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C0247	A5	C231	B4	C334	A4	C511	C1	C544	C2	C608	A5	C732	B4	C834	D5	C923	D2	CN303A3	D711	B4	FB303	C5	FB906	B3	JK601	A5	L513	A2	Q501	B2	R207	D4	R242	B4	R286	B4	R322	A3	R354	A3	R505	D2	R550	B2	R804	D4	R839	D5	R935	A2	ZD302	C3	
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C0610	A5	C242	D5	C343	C3	C515	A2	C571	A2	C702	B4	C805	D5	C839	D5	C927	A2	CN902	A2	D902	A2	FB309	A4	IC204	B4	JP505A	C1	L517	A2	Q804	D5	R212	B4	R248	C4	R293	C5	R326	A3	R358	D3	R509	B2	R558	D2	R808	D5	R843	D5	R939	A2	ZD904	B5
C0615	A5	C243	B4	C345	B4	C516	C2	C572	A2	C703	B4	C808	D4	C840	D5	C928	D3	D201	D4	D903	A2	FB310	B4	IC205	C4	JP507	B1	L518	A2	Q901	B5	R216	A5	R249	C4	R294	D5	R327	B3	R359	D3	R512	B2	R601	A5	R814	D5	R845	D5	R940	A2	ZD905	C3
C201	C4	C253	A5	C346	A4	C517	A2	C573	B1	C704	A4	C809	D5	C841	D5	C929	B3	D202	D4	D904	A2	FB312	D3	IC206	B4	JP507A	B1	L519	A5	Q902	C3	R217	A5	R251	C4	R300	C4	R328	B3	R360	B4	R513	D2	R602	A5	R815	D5	R846	D3	R941	A2	ZD906	A3
C202	B5	C254	B4	C348	A4	C518	C2	C574	B1	C705	A4	C810	D5	C842	D5	C930	A4	D203	D4	FB1	A5	FB313	D3	IC206	B4	L201	C5	L701	B4	Q903	D3	R218	D4	R252	C4	R301	A3	R329	B3	R361	B4	R515	A2	R609	A5	R817	D5	R907	A2	R942	A2		
C203	D5	C301	A3	C349	B4	C519	A2	C575	B1	C706	A5	C811	C5	C843	D5	C931	C2	D204	D4	FB201	C3	FB601	B5	IC207	C5	L202	D5	L702	B4	Q904	D2	R219	D4	R253	B5	R302	A3	R330	C3	R369	B4	R516	B2	R610	A5	R818	D5	R908	A2	R943	A2		



PCB Layout Bottom View

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C0102	A3	C0113	A3	C0210	C5	C0228	C4	C0243	B4	C0504	C3	C0612	A5	C237	C5	C321	A4	C5004	C2	C536	B2	C554	C2	C564	D1	C588	C3	C801	D5	C845	C4	C940	A1	CE207	D4	CE507	A1	CE805	D4	D907	A1	Q706	A4	R418	D3	R529	D2	R622	A5	R969	C2
C0103	B5	C0117	D4	C0214	C4	C0229	B5	C0244	C5	C0505	C3	C0613	A5	C238	C5	C322	A4	C5005	C2	C537	D2	C555	C1	C565	C2	C589	C3	C802	D5	C901	D2	C941	A1	CE208	D4	CE508	A1	CE806	D4	D908	A1	R200	D4	R419	D3	R530	D1	R801	D5		
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C0106	D5	C0120	A3	C0219	B4	C0237	B4	C0248	C5	C0508	C3	C225	C5	C306	A3	C353	D3	C5008	A2	C548	B1	C558	C2	C569	D1	C596	C1	C807	D5	C904	D3	CE201	D4	CE501	A1	CE511	A2	CN201	D4	D911	A1	R280	C5	R523	B2	R534	C3	R919	A1		
C0107	D5	C0121	A4	C0220	B4	C0238	B4	C0249	C5	C0601	A5	C226	C5	C307	A3	C355	D3	C531	A2	C549	B2	C559	C1	C570	D1	C597	B1	C820	D4	C907	D3	CE202	D4	CE502	A1	CE512	A2	CN304A	B2	FB217	C5	R288	C5	R524	B1	R571	B3	R920	A1		
C0109	B3	C0201	D4	C0222	C5	C0239	B4	C0251	B4	C0602	A5	C227	C5	C308	A3	C500	B1	C532	A2	C550	B1	C560	C1	C577	C3	G601	A5	C821	D4	C908	D3	CE203	D4	CE503	A1	CE801	D4	D504	B2	Q206	B4	R292	A5	R525	C2	R572	B3	R921	A1		
C0110	C3	C0202	B5	C0224	B4	C0240	B4	C0252	B4	C0603	A5	C228	C5	C315	C3	C5001	D2	C533	B2	C551	B2	C561	D2	C585	C3	C611	A5	C822	D4	C937	A1	CE204	D4	CE504	A1	CE802	D4	D905	A1	Q609	A5	R392	D5	R526	C1	R573	B3	R922	A1		
C0111	C5	C0206	A4	C0225	C4	C0241	B4	C0501	C3	C0604	B5	C229	A5	C316	C3	C5002	D2	C534	C2	C552	B1	C562	D1	C586	C3	C612	A5	C823	D4	C938	A1	CE205	D4	CE505	A1	CE803	D4	D906	A1	Q610	A5	R393	D5	R527	C2	R617	A5	R923	A1		



VOLTAGE

IC201																							
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Voltage	3.30	0.00	0.00	2.50	2.50	5.10	0.00	0.00	3.30	2.50	5.10	1.80	0.00	0.00	0.00	5.00	5.00	0.00	5.00	0.00			
Pin NO	21	22	23	24	25	26	27	28															
Voltage	5.00	0.00	5.00	0.00	0.00	0.00	5.00	3.30															

IC202																							
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Voltage	0.35	1.60	2.00	1.90	2.50	1.70	0.70	1.70	0.00	0.00	3.30	3.30	0.00	3.30	0.40	0.00	1.50	1.40	1.50	1.90			
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Voltage	2.10	1.90	1.80	1.95	2.00	0.00	0.00	0.00	0.85	1.65	1.20	1.20	1.20	1.20	0.85	1.70	3.30	1.50	1.65	2.20			
Pin NO	41	42	43	44	45	46	47	48															
Voltage	1.40	1.60	1.70	1.70	2.00	0.00	0.00	1.00															

IC203																				
Pin NO	1	2	3																	
Voltage	3.30	3.30	0.00																	

IC204																							
Pin NO	1	2	3	4	5	6	7	8															
Voltage	0.00	0.00	0.00	0.00	3.30	3.30	0.00	3.30															

IC205																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	0.00	3.30	1.50	1.60	0.00	3.30	1.25	1.00	0.00	0.00	0.00	0.00	1.60	1.50	3.30	0.00	1.40	1.50	0.00	3.30

IC206																							
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
Voltage	3.20	1.00	3.20	1.10	1.30	0.00	1.30	1.20	3.20	1.30	1.20	0.00	1.30	3.20	2.60	3.20	3.00	3.00	3.00	1.40			
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
Voltage	1.20	0.00	0.00	1.40	1.60	1.80	3.20	0.00	1.60	1.80	1.20	0.50	0.00	0.00	0.00	3.20	1.80	2.30	0.00	0.00			
Pin NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54									
Voltage	0.00	1.00	3.20	1.40	0.70	0.00	0.70	1.30	3.20	1.30	1.40	0.00	0.80	0.00									

IC207																							
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14									
Voltage	1.40	1.50	1.50	0.50	0.00	3.30	0.00	1.50	1.50	1.50	1.50	0.00	0.00	3.30									

IC208																								
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
Voltage	0.00	0.10	0.10	0.10	0.10	1.60	1.60	2.10	1.90	1.90	1.80	0.00	0.00	0.90	0.90	1.00	1.00	1.90	1.50	0.00				
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
Voltage	0.80	3.20	3.20	3.20	2.70	3.10	0.00	2.70	2.00	1.30	1.30	1.50	1.50	2.40	2.40	2.20	1.30	1.30	0.00	1.30				
Pin NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60				
Voltage	1.30	1.30	0.00	1.60	3.30	0.00	0.00	0.00	3.30	2.20	3.20	0.00	0.00	3.20	1.90	1.80	1.90	2.10	1.80	1.80				
Pin NO	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				
Voltage	1.50	1.40	1.60	0.00	3.30	0.30	1.50	2.00	1.90	2.50	1.70	0.70	1.60	0.00	0.00	2.00	0.00	1.50	1.50	1.50				
Pin NO	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100				
Voltage	0.00	1.30	1.20	1.60	1.80	1.70	0.00	1.10	1.80	0.00	1.30	1.90	1.80	0.60	3.20	3.30	0.00	3.10	3.10	3.10				
Pin NO	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120				
Voltage	3.20	3.20	5.00	3.10	2.20	3.30	0.00	3.30	3.80	2.20	2.70	0.00	2.10	0.70	0.50	1.10	1.50	3.30	1.50	1.50				
Pin NO	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140				
Voltage	1.60	1.00	1.90	1.70	1.60	0.80	0.80	1.80	0.70	1.60	3.30	2.70	3.20	3.00	3.10	2.90	1.50	1.30	0.10	0.20				
Pin NO	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160				
Voltage	1.40	1.80	1.40	1.40	3.00	1.50	3.30	0.00	0.00	0.00	1.60	2.00	1.90	1.40	3.30	0.50	0.10	0.20	1.80	1.80				
Pin NO	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180				
Voltage	1.60	0.20	0.20	0.20	1.30	0.50	3.30	2.90	3.30	2.60	2.90	2.60	1.80	3.30	0.00	1.70	0.00	3.10	3.40	3.40				
Pin NO	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200				
Voltage	3.10	0.00	0.00	0.00	0.00	3.30	0.00	0.00	3.30	3.30	0.00	0.00	2.00	1.20	1.20	3.30	0.00	3.20	3.20	3.10				
Pin NO	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220				
Voltage	3.10	0.00	0.00	2.50	0.00	5.00	5.00	3.30	1.50	1.60	1.50	0.00	1.80	1.90	2.00	0.00	3.30	1.30	0.00	0.10				
Pin NO	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240				
Voltage	0.00	0.00	0.00	0.00	1.60	0.00	3.20	3.80	3.30	3.50	0.00	1.80	0.00	0.40	0.90	0.90	0.00	0.00	3.20	3.00				
Pin NO	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256								
Voltage	0.50	1.60	1.30	3.20	0.00	3.20	0.50	1.30	3.20	1.40	0.00	1.60	1.60	1.10	0.80									

IC301												
Pin NO	1	2	3	4	5	6	7	8				
Voltage	0.00	0.00	0.00	-13.00	0.00	0.00	0.00	12.00				

IC302												
Pin NO	1	2	3	4	5	6	7	8				
Voltage	0.00	0.00	0.00	-13.00	0.00	0.00	0.00	12.00				

IC304																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.70	0.00	0.00	3.30	0.00	0.00	0.00	0.00	5.70				

IC305																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	0.00	0.00	0.00	0.00	0.00	0.00	5.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.70				

IC306																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
Voltage	5.30	1.50	5.30	1.90	0.00	5.30	1.65	1.55	3.30	2.60	2.60	2.60	5.30	0.00	5.20	5.30				

IC501																								
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
Voltage	0.00	0.50	0.50	35.00	0.00	0.00	35.00	0.50	0.50	0.40	0.40	35.00	0.00	0.00	3.50	0.40	0.40	0.00	0.00	0.00				
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36								
Voltage	4.90	4.90	3.20	0.00	3.30	3.30	3.30	3.20	0.20	0.20	0.20	0.20	29.80	29.80	35.00	35.00								

IC502																								
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
Voltage	0.00	0.50	0.50	35.00	0.00	0.00	35.00	0.50	0.50	0.40	0.40	35.00	0.00	0.00	3.50	0.40	0.40	0.00	0.00	0.00				
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36								
Voltage	4.90	4.90	3.20	0.00	3.30	3.30	3.30	3.20	0.20	0.20	0.20	0.20	29.80	29.80	35.00	35.00								

IC503																								
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
Voltage	0.00	0.50	0.50	35.00	0.00	0.00	35.00	0.50	0.50	0.40	0.40	35.00	0.00	0.00	3.50	0.40	0.40	0.00	0.00	0.00				
Pin NO	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36								
Voltage	4.90	4.90	3.20	0.00	3.30	3.30	3.30	3.20	0.20	0.20	0.20	0.20	29.80	29.80	35.00	35.00								

IC504																				
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Voltage	0.00	0.50	0.50	35.00	0.00	0.00	35.00	0.50</												

VOLTAGE

POWER BOARD

TABLE OF CONTENTS
 Voltage 8-1
 Circuit Diagram 8-2
 PCB Layout Top View 8-3
 PCB Layout Bottom View 8-4
 I

IC901																		
Pin NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
Voltage	4.80	4.80	2.40	0.00	1.70	3.40	0.00	12.00	2.30	2.30	12.00	12.00	4.90	4.90	2.40	0.00		

IC902																		
Pin NO	1	2	3	4	5	6	7	8										
Voltage	2.70	0.00	0.50	2.10	0.00	1.00	11.00	4.90										

IC903																		
Pin NO	1	2	3	4														
Voltage	4.90	4.20	0.00	1.00														

IC904																		
Pin NO	1	2	3	4														
Voltage	4.60	3.50	0.00	2.60														

IC905																		
Pin NO	1	2	3															
Voltage	3.50	0.00	2.40															

Q901			
Pin NO	b	c	e
Voltage	148.00	318.00	148.00

Q907			
Pin NO	b	c	e
Voltage	0.60	0.00	0.00

Q911			
Pin NO	b	c	e
Voltage	1.50	0.00	1.80

Q915			
Pin NO	b	c	e
Voltage	42.00	4.90	42.00

Q904			
Pin NO	b	c	e
Voltage	0.00	3.40	0.00

Q908			
Pin NO	b	c	e
Voltage	0.00	4.30	0.00

Q912			
Pin NO	b	c	e
Voltage	0.00	550.00	0.00

Q916			
Pin NO	b	c	e
Voltage	1.50	0.00	0.00

Q905			
Pin NO	b	c	e
Voltage	11.50	13.50	11.00

Q909			
Pin NO	b	c	e
Voltage	0.00	147.90	0.00

Q913			
Pin NO	b	c	e
Voltage	72.00	0.00	2.50

Q917			
Pin NO	b	c	e
Voltage	0.60	0.00	0.00

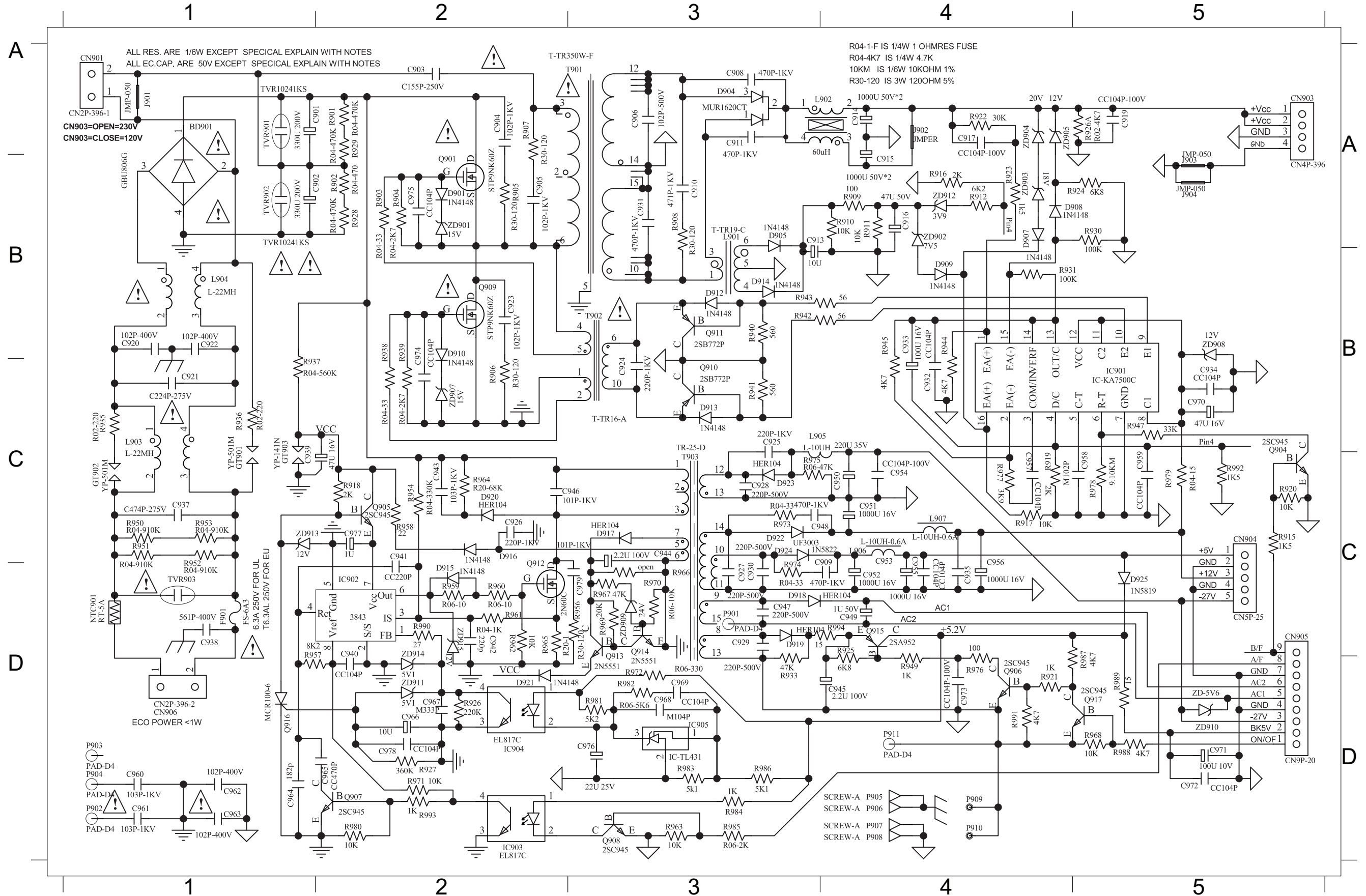
Q906			
Pin NO	b	c	e
Voltage	0.00	41.90	0.00

Q910			
Pin NO	b	c	e
Voltage	1.50	0.00	1.80

Q914			
Pin NO	b	c	e
Voltage	0.00	0.60	0.00

CIRCUIT DIAGRAM

BD901	A1	C913	A3	C924	B3	C934	B4	C945	D4	C956	C4	C966	D2	C978	D2	D909	B4	D920	C2	IC902	C2	L903	B1	Q907	D2	Q917	D5	R911	A4	R923	A4	R933	D3	R944	B4	R958	C2	R968	D5	R978	C5	R988	D5	TVR902	A1	ZD910	D5		
C901	A1	C914	A4	C925	B3	C935	C4	C946	C2	C957	C4	C967	D2	CN903	A5	D910	B2	D921	D2	IC903	D2	L904	B1	Q908	D3	R901	A2	R912	A4	R924	A5	R935	B1	R945	B4	R959	C2	R969	C3	R979	C5	R989	D5	TVR903	C1	ZD911	D2	ZD912	A4
C902	A1	C915	A4	C926	C2	C937	C1	C948	C3	C958	C5	C968	D3	CN904	C5	D912	B3	D922	C3	IC904	D2	L905	B3	Q909	B2	R902	A2	R915	C5	R925	C4	R936	B1	R947	B5	R960	C2	R970	C3	R980	D2	R990	C2	ZD901	A2	ZD913	A4		
C903	A2	C916	A4	C927	C3	C938	C1	C949	C4	C959	C5	C969	D3	CN905	D5	D913	B3	D923	C3	IC905	D3	L906	C4	Q910	B3	R903	A2	R916	A4	R926A	A5	R937	B1	R949	D4	R961	C2	R971	D2	R981	D3	R991	D4	ZD902	A4	ZD914	C1		
C904	A2	C917	A4	C928	C3	C939	C1	C950	C4	C960	D1	C970	B5	CN906	D1	D914	B3	D924	C3	J901	A1	L907	C4	Q911	B3	R904	A2	R917	C4	R926B	D2	R938	B2	R950	C1	R962	C2	R972	D3	R982	D3	R992	D4	ZD903	A4	ZD914	C2		
C906	A3	C919	A5	C929	C3	C940	C2	C951	C4	C961	D1	C971	D5	D901	A2	D915	C2	D925	C5	J902	A4	NTC901	C1	Q912	C2	R905	A2	R918	C2	R927	D2	R939	B2	R951	C1	R963	D3	R973	C3	R983	D3	R994	C4	ZD904	A4	ZD905	A4		
C908	A3	C920	B1	C930	C3	C941	C2	C952	C4	C962	D1	C972	D5	D904	A3	D916	C2	F901	C1	J903	A5	Q901	A2	Q913	D3	R906	B2	R919	C4	R928	A2	R940	B3	R952	C1	R964	C2	R974	C3	R984	D3	T901	A3	ZD905	A4	ZD907	B2		
C909	C4	C921	B1	C931	A3	C942	C2	C953	C4	C963	D1	C973	D4	D905	A3	D917	C3	GT901	C1	J904	A5	Q904	C5	Q914	C3	R908	A3	R920	C5	R929	A2	R941	B3	R953	C1	R965	C2	R975	C3	R985	D3	T902	B3	ZD907	B2	ZD908	B5		
C910	A3	C922	B1	C932	B4	C943	C2	C954	C4	C964	D1	C976	D3	D907	A4	D918	C3	GT902	C1	L901	A3	Q905	C2	Q915	C4	R909	A3	R921	D4	R930	A5	R942	B3	R954	C1	R966	C3	R976	D4	R986	D3	T903	C3	ZD908	B5	ZD909	C3		
C911	A3	C923	B2	C933	B4	C944	C3	C955	C4	C965	D2	C977	C2	D908	A4	D919	C3	IC901	B5	L902	A4	Q906	D4	Q916	D1	R910	A4	R922	A4	R931	B4	R943	B3	R957	C1	R967	C3	R977	C4	R987	D5	TVR901	A1	ZD909	C3	ZD910	D5		

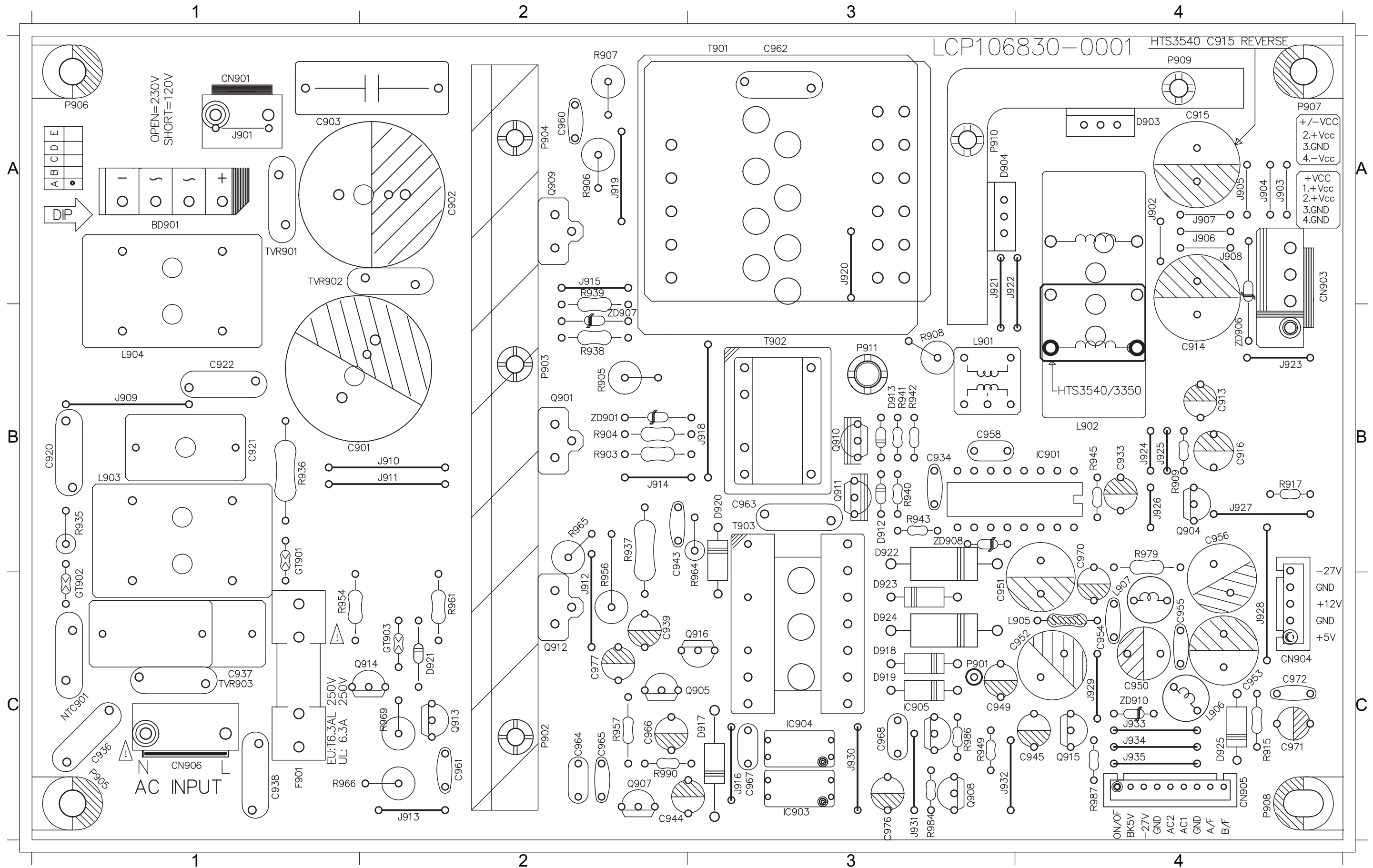


PCB LAYOUT - TOP VIEW

8 - 3

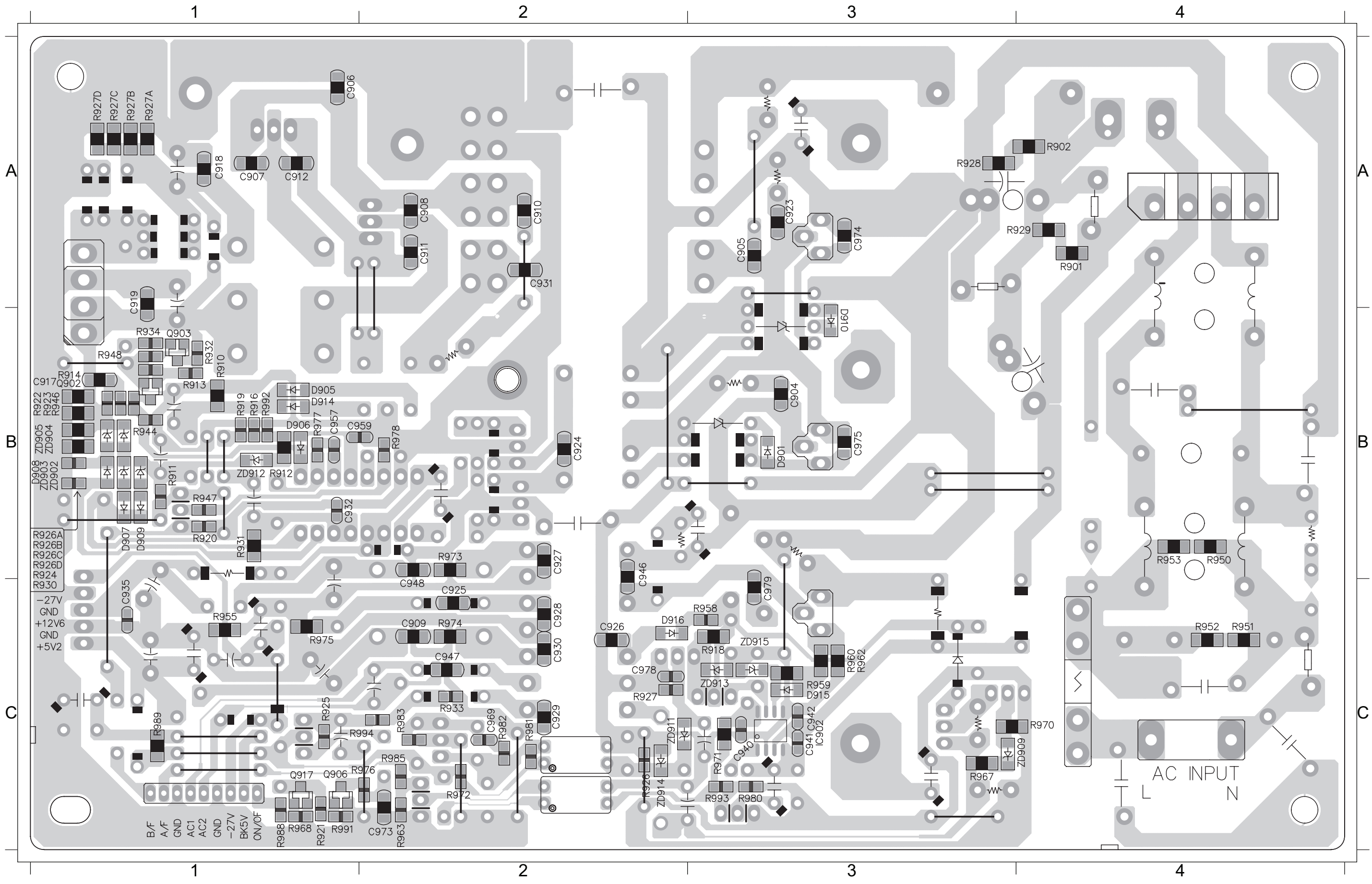
8 - 3

BD901	A1	C915	C4	C934	B3	C945	C4	C954	C4	C962	A3	C970	B4	CN904	C4	D917	C3	D923	C3	IC901	B4	J903	A4	J913	C2	J921	A3	J927	B4	J933	C4	L904	B1	Q904	B4	Q911	B3	R903	B2	R915	C4	R939	B2	R949	C3	R966	C1	R990	C2	TVR903	C1		
C901	A1	C916	B4	C937	C1	C949	C3	C955	C4	C963	B3	C971	C4	CN905	C4	D918	C3	D924	C3	IC903	C3	J904	A4	J914	B2	J922	A3	J928	C4	J934	C4	L905	C4	Q905	C2	Q912	C2	R904	B2	R917	B4	R940	B3	R954	C1	R969	C2	T901	A3	ZD901	B2		
C902	B1	C920	B1	C938	C1	C950	C4	C956	B4	C964	C2	C972	C4	CN906	C1	D919	C3	D925	C4	IC904	C3	J909	B1	J915	A2	J923	B4	J929	C4	J935	C4	L906	C4	Q907	C2	Q913	C2	R905	B2	R935	B1	R941	B3	R957	C2	R979	B4	T902	B3	ZD907	B2		
C903	A1	C921	B1	C939	C2	C951	C3	C958	B3	C965	C2	C976	C3	D904	A3	D920	B3	F901	C1	IC905	C3	J910	B2	J916	C3	J924	B4	J930	C3	L901	B3	L907	C4	Q908	C3	Q914	C1	R906	A2	R936	B1	R942	B3	R961	C2	R984	C3	T903	B3	ZD908	B3		
C913	B4	C922	B1	C943	B2	C952	C4	C960	A2	C966	C2	C977	C2	D912	B3	D921	C2	GT901	B1	J901	A1	J911	B2	J918	B3	J925	B4	J931	C3	L902	B4	NTC901	C1	Q909	A2	Q915	C4	R908	B3	R937	B2	R943	B3	R964	C2	R986	C3	TVR901	A1	ZD910	C4		
C914	B4	C933	B4	C944	C2	C953	C4	C961	C2	C967	C3	CN903	A4	D913	B3	D922	C3	GT902	C1	J902	A4	J912	C2	J920	A3	J926	B4	J932	C3	L903	B1	Q901	B2	Q910	B3	Q916	C3	R909	B4	R938	B2	R945	B4	R965	B2	R987	C4	TVR902	A1				



PCB LAYOUT - BOTTOM VIEW

C904 B3	C911 A2	C925 C2	C930 C2	C941 C3	C959 B2	D901 B3	D910 B3	Q906 C1	R911 B1	R920 B1	R925 C1	R929 A4	R947 B1	R955 C1	R963 C2	R972 C2	R977 B1	R983 C2	R993 C3	ZD905 B1	ZD914 C2
C906 A1	C917 A1	C926 C2	C931 A2	C942 C3	C968 C1	D905 B1	D914 B1	Q917 C1	R912 B1	R921 C1	R926AB1	R930 B1	R950 B4	R958 C3	R967 C3	R973 B2	R978 B2	R985 C2	R994 C2	ZD909 C3	
C908 A2	C919 A1	C927 B2	C932 B1	C946 C2	C969 C2	D907 B1	D915 C3	R901 A4	R916 B1	R922 B1	R926BB1	R931 B1	R951 C4	R959 C3	R968 C1	R974 C2	R980 C3	R988 C1	ZD902 B1	ZD911 C2	
C909 C2	C923 A3	C928 C2	C935 C1	C948 B2	C973 C2	D908 B1	D916 C2	R902 A4	R918 C3	R923 B1	R927 C2	R933 C2	R952 C4	R960 C3	R970 C4	R975 C1	R981 C2	R989 C1	ZD903 B1	ZD912 B1	
C910 A2	C924 B2	C929 C2	C940 C3	C957 B1	C978 C2	D909 B1	IC902 C3	R910 B1	R919 B1	R924 B1	R928 A3	R944 B1	R953 B4	R962 C3	R971 C3	R976 C2	R982 C2	R991 C1	ZD904 B1	ZD913 C3	



DVD BOARD

TABLE OF CONTENTS	
EXPLORER VIEW	9-2

EXPLORER VIEW

