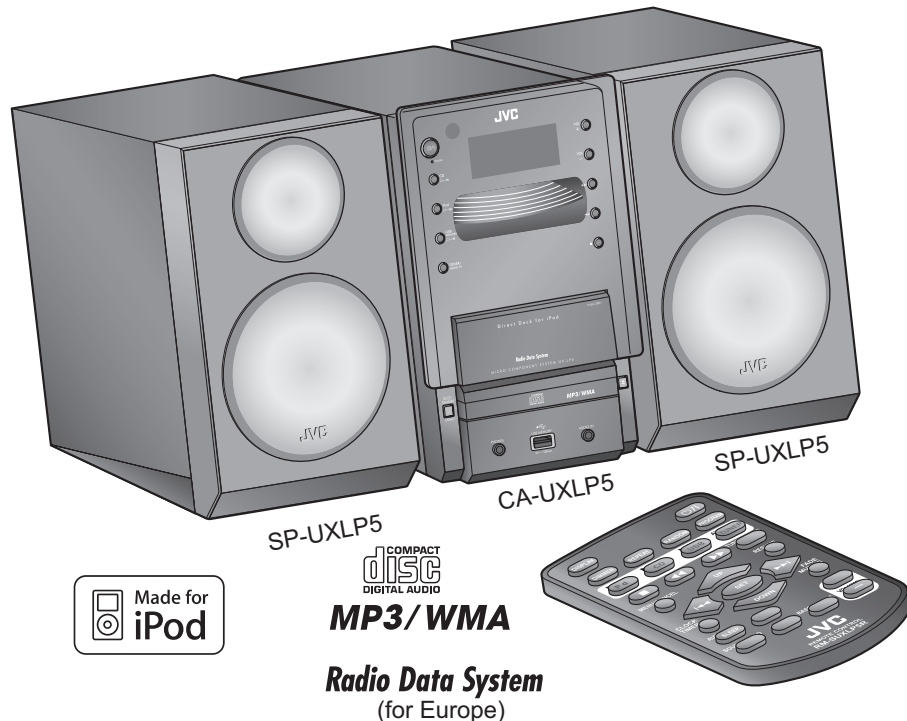


JVC

SERVICE MANUAL

MICRO COMPONENT SYSTEM

**UX-LP5B, UX-LP5E, UX-LP5EN,
UX-LP5EV, UX-LP5J, UX-LP5C,
UX-LP5A, UX-LP5US, UX-LP5UB,
UX-LP5UP, UX-LP5UT**



Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

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SPECIFICATION

UX-LP5 for Europe

Amplifier section	
OUTPUT POWER	60 W (30 W + 30 W) at 6 Ω (10% THD)
Speakers/Impedance	6 Ω - 16 Ω
Audio input	AUDIO IN
	500 mV/47 kΩ (at "LEVEL 1")
	250 mV/47 kΩ (at "LEVEL 2")
	125 mV/47 kΩ (at "LEVEL 3")
Digital input	USB MEMORY
Tuner section	
FM tuning range	87.50 MHz - 108.00 MHz
AM (MW) tuning range	522 kHz - 1 629 kHz
CD player section	
Dynamic range	88 dB
Signal-to-noise ratio	85 dB
Wow and flutter	Immeasurable
iPod section	
iPod output power	DC 5 V 500 mA
VIDEO OUT	Composite
USB storage	
USB specification	Compatible with USB 2.0 Full Speed
Compatible device	Mass storage class
Compatible file system	FAT16, FAT32
Bus power supply	DC 5 V 500 mA
General	
Power requirements	AC 230 V , 50 Hz
Power consumption	35 W (power on)
	8 W (standby mode)
	1 W or less (Ecology Mode)
Dimensions (approx)	165 mm × 259 mm × 258 mm (W × H × D)
Mass (approx)	1.9 kg
Speakers	
Speaker units	10 cm × 1; 1.5 cm × 1
Impedance	6 Ω
Dimensions (approx.)	140 mm × 250 mm × 188 mm (W × H × D)
Mass (approx.)	1.4 kg each

Specifications and appearance are subject to change without prior notice.

UX-LP5J/C

Amplifier section	
OUTPUT POWER	35 W per channel, min. RMS, driven into 4 Ω at 1 kHz with no more than 10% total harmonic distortion
Speakers/Impedance	6 Ω - 16 Ω
Audio input	AUDIO IN
	500 mV/47 k Ω (at "LEVEL 1")
	250 mV/47 k Ω (at "LEVEL 2")
	125 mV/47 k Ω (at "LEVEL 3")
Tuner section	
FM tuning range	87.5 MHz - 108.0 MHz
AM tuning range	530 kHz - 1 710 kHz
CD player section	
Dynamic range	88 dB
Signal-to-noise ratio	85 dB
Wow and flutter	Immeasurable
iPod section	
iPod output power	DC 5 V 500 mA
VIDEO OUT	Composite
General	
Power requirements	AC 120 V , 60 Hz
Power consumption	35 W (power on)
	8 W (standby mode)
	1 W or less (Ecology Mode)
Dimensions (approx.)	165 mm \times 259 mm \times 258 mm (6-1/2 inches \times 10-1/4 inches \times 10-3/16 inches) (W \times H \times D)
Mass (approx.)	1.9 kg (4.2 lbs)
Speakers	
Speaker units	10 cm (3-15/16 inches) \times 1; 1.5 cm (5/8 inch) \times 1
Impedance	6 Ω
Dimensions (approx.)	140 mm \times 250 mm \times 188 mm (5-9/16 inches \times 9-7/8 inches \times 7-7/16 inches) (W \times H \times D)
Mass (approx.)	1.4 kg (3.1 lbs) each

Specifications and appearance are subject to change without prior notice.

UX-LP5 for Asia, Australia

Amplifier section	
OUTPUT POWER	60 W (30 W + 30 W) at 6 Ω (10% THD)
Speakers/Impedance	6 Ω - 16 Ω
Audio input	AUDIO IN
	500 mV/47 k Ω (at "LEVEL 1")
	250 mV/47 k Ω (at "LEVEL 2")
	125 mV/47 k Ω (at "LEVEL 3")
Digital input	USB MEMORY
Tuner section	
FM tuning range	87.50 MHz - 108.00 MHz
AM tuning range	531 kHz - 1 710 kHz (in 9 kHz spacing)
	530 kHz - 1 710 kHz (in 10 kHz spacing)
CD player section	
Dynamic range	88 dB
Signal-to-noise ratio	85 dB
Wow and flutter	Immeasurable
iPod section	
iPod output power	DC 5 V 500 mA
VIDEO OUT	Composite
USB storage	
USB specification	Compatible with USB 2.0 Full Speed
Compatible device	Mass storage class
Compatible file system	FAT16, FAT32
Bus power supply	DC 5 V 500 mA
General	
Power requirements	AC 110 V - 127 V/AC 220 V - 240 V (adjustable with the voltage selector), 50 Hz/60 Hz
	AC 240 V , 50 Hz (only Australia)
	AC 220 V , 50 Hz (only Hong Kong)
Power consumption	35 W (power on)
	8 W (standby mode)
	1 W or less (Ecology Mode)
Dimensions (approx)	165 mm \times 259 mm \times 258 mm (W \times H \times D)
Mass (approx)	1.9 kg
Speakers	
Speaker units	10 cm \times 1; 1.5 cm \times 1
Impedance	6 Ω
Dimensions (approx.)	140 mm \times 250 mm \times 188 mm (W \times H \times D)
Mass (approx.)	1.4 kg each

Specifications and appearance are subject to change without prior notice.

SECTION 1 PRECAUTION

1.1 Safety Precautions

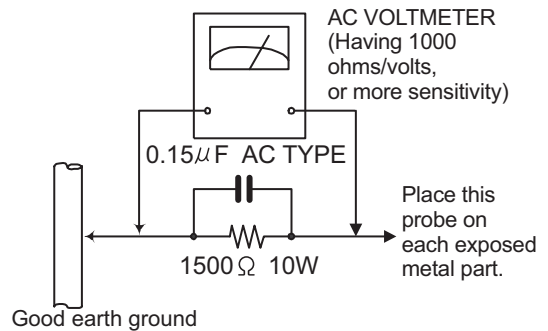
- (1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
- (5) Leakage shock hazard testing

After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 Ω per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC

voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

- (1) This equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.

Therefore, pay attention to such burrs in the case of pre-forming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (\blacksquare), diode (\blacksquare) and ICP (\bullet) or identified by the " Δ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer. (This regulation does not Except the J and C version)

1.5 Preventing static electricity

Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

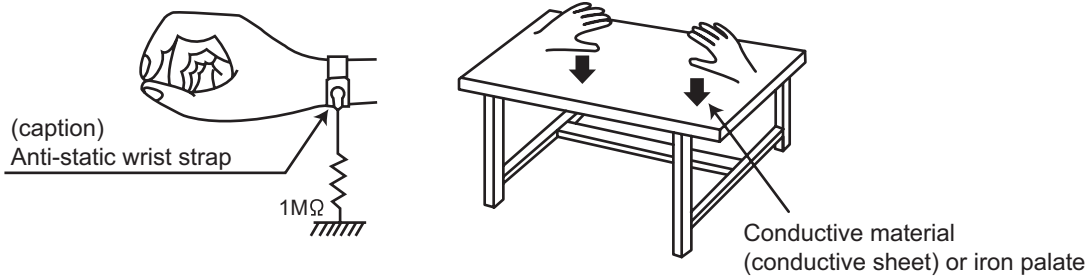
Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products. Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench

Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself

Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup

- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

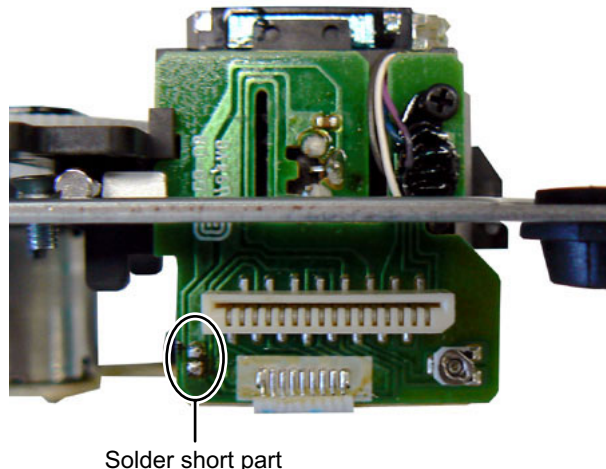
1.6 Handling the traverse unit (optical pickup)

- (1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
- (2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
- (3) Handle the flexible cable carefully as it may break when subjected to strong force.
- (4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the pickup unit.**

- Apply solder to the short land sections before the card wire is disconnected from the connector on the servo board. (If the card wire is disconnected without applying solder, the pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the card wire.



1.8 Important for laser products

1.CLASS 1 LASER PRODUCT

2.CAUTION :

(For U.S.A.) Visible and/or invisible class II laser radiation when open. Do not stare into beam.
(Others) Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.

3.CAUTION : Visible and/or invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

4.CAUTION : This laser product uses visible and/or invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.

(For U.S.A.)

CAUTION : Visible and/or invisible class II laser radiation when open. Do not stare into beam.

(Others)

CAUTION : Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments

ACHTUNG: Sichtbare und/oder unsichtbare Laserstrahlung der Klasse 1M bei offenen Abdeckungen. Nicht direkt mit optischen Instrumenten betrachten.

ATTENTION: Rayonnement laser visible et/ou invisible de classe 1M une fois ouvert. Ne pas regarder directement avec des instruments optiques.

VOORZICHTIG: Zichtbare en/of onzichtbare klasse 1M laserstralen indien geopend. Bekijk niet direct met optische instrumenten.

ATTENZIONE: Radiazione laser in classe 1M visibile e/o invisibile quando aperto. Non osservare direttamente con strumenti ottici.

WARNING: Synlig och/eller osynlig laserstrålning, klass 1M, när denna del är öppnad. Betrakta ej strålen med optiska instrument.

VARO! Avattaessa olet alttiina näkyvälle ja/tai näkymättömälle luokan 1M lasersäteilylle. Älä tarkastele sitä optisen laitteen läpi.

ADVARSEL: Synlig og/eller usynlig klasse 1M-laserstråling ved åbning. Se ikke direkte med optiske instrumenter.

AVISO: Radiación láser de clase 1M visible y/o invisible cuando está abierto. No mirar directamente con instrumental óptico.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified here in may result in hazardous radiation exposure.



CAUTION Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.

PRECAUÇÃO: Radiação laser de classe 1M visível e/ou invisível quando aberto. Não olhe diretamente com instrumentos ópticos.

ПРЕДУПРЕЖДЕНИЕ: В открытом состоянии происходит видимое и/или невидимое излучение лазера класса 1M. Не смотрите непосредственно в оптические инструменты.

UWAGA: Otwarcie spowoduje narażenie na widzialne i/lub niewidzialne promieniowanie lasera klasy 1M. Nie patrzeć bezpośrednio w przyrządy optyczne.

UPOZORNĚNÍ: Při otevření vydává viditelné popř. neviditelné laserové ozáření třídy 1M. Nedívejte se do otvoru přímo s optickými nástroji.

FIGYELMEZTETÉS: Látható és/vagy láthatatlan 1M osztályú sugárzás nyitott állapotban. Ne nézze közvetlenül optikai műszerekkel.

注意: 打開蓋板可能會產生可見或不可見的 1M 級鐳射。不要使用光學儀器直接進行窺視。

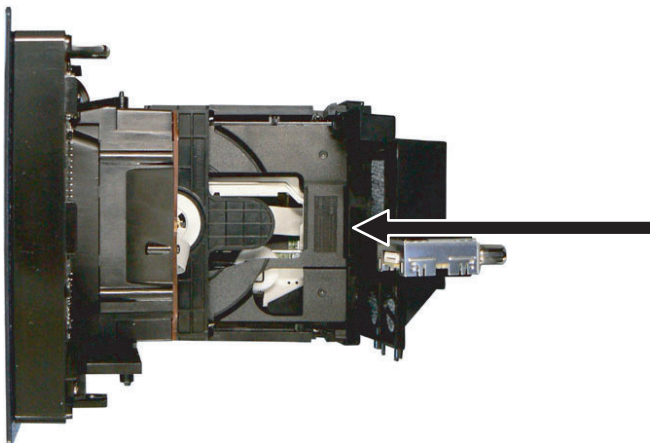
注意: 打开盖板可能会产生可见或不可见的 1M 级鐳射。不要使用光学仪器直接进行窺視。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحاً. تجنب النظر مباشرة داخل الجهاز باستخدام أدوات بصرية.

احتياط: هنگامی که باز گردد، تشعشع مرئی و یا نامرئی کلاس 1M لیزر وجود دارد. با لوازم چشمی مستقیماً به آن نگاه نکنید.

주의: 개방하면 가시 및/또는 비가시 클래스 1M 레이저 방사선이 나옵니다. 광학 기구로 직접 들여다보지 마십시오.

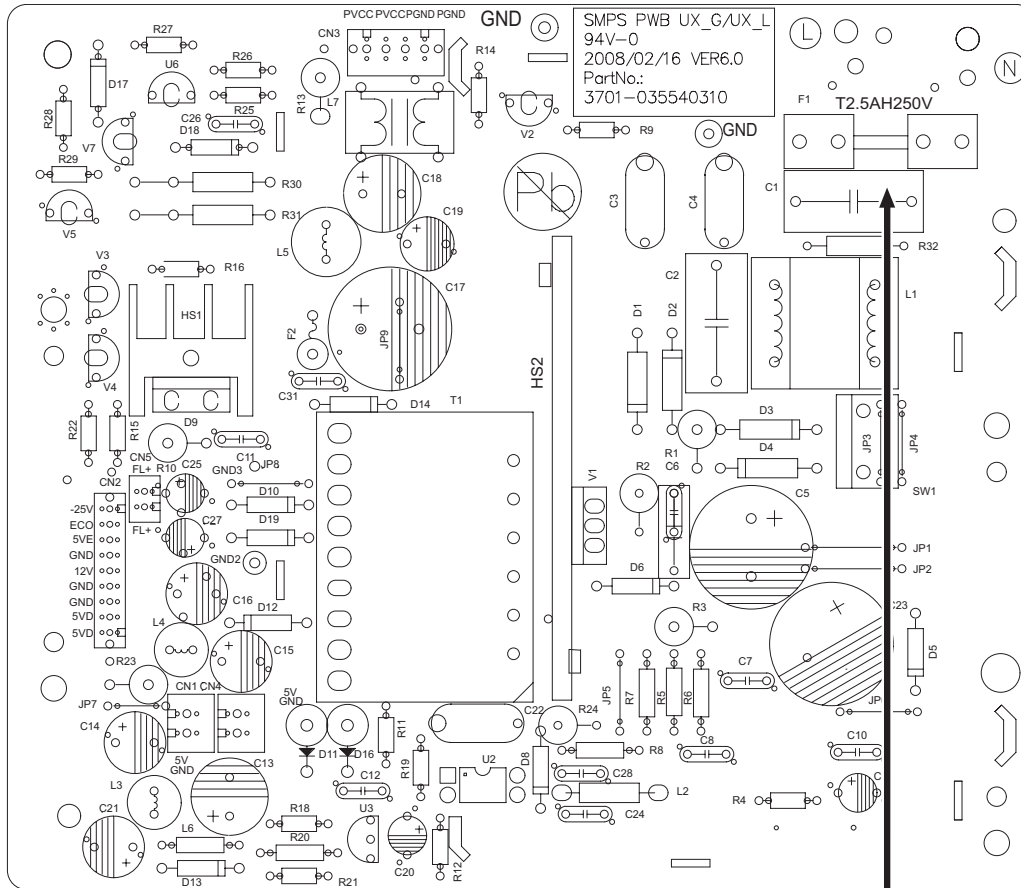
REPRODUCTION AND POSITION



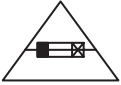

CAUTION: INVISIBLE LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM

DANGER: INVISIBLE LASER RADIATION WHEN OPEN
AVOID DIRECT EXPOSURE TO THE BEAM

1.9 Importance administering point on the safety



slow blow type / type a fusion lent

<p>Full Fuse Replacement Marking</p> <p>Graphic symbol mark (This symbol means slow blow type fuse.)</p>  <p>should be read as follows ;</p>	<p>Marquage Pour Le Remplacement Complet De Fusible</p> <p>Le symbole graphique (Ce symbole signifie fusible de type à fusion lent.)</p>  <p>doit être interprété comme suit ;</p>
<p>FUSE CAUTION</p>	<p>PRECAUTIONS SUR LES FUSIBLES</p>
<p>FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ;</p> <p>F901 : T1.6AH 250V</p>	<p>POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;</p> <p>F901 : T1.6AH 250V</p>

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3 DISASSEMBLY

3.1 Main body (Used figure are UX-LP5E)

3.1.1 Removing the Top cabinet (See Fig.1, 2)

- (1) Remove the six screws **A** attaching the both side of the Top cabinet. (See Fig.1)

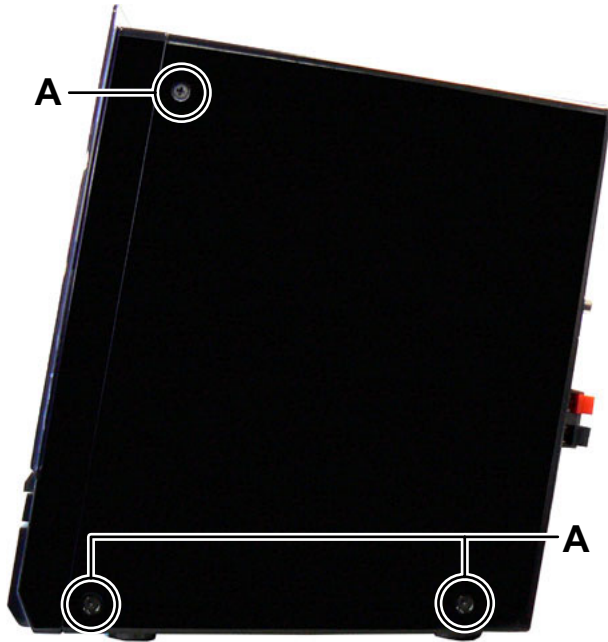


Fig.1

- (2) Remove the five screws **B** attaching the Top cabinet. (See Fig.2)

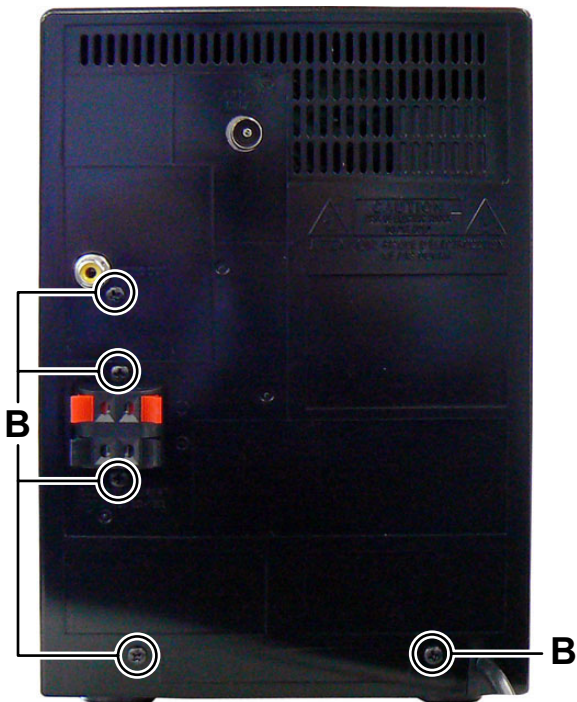


Fig.2

3.1.2 Removing the SMPS board (See Fig.3)

- (1) Remove the four screws **C** attaching the SMPS board.
- (2) Disconnect the connector wires from MCU board connected to connectors **CN2** and **CN3** of the SMPS board.

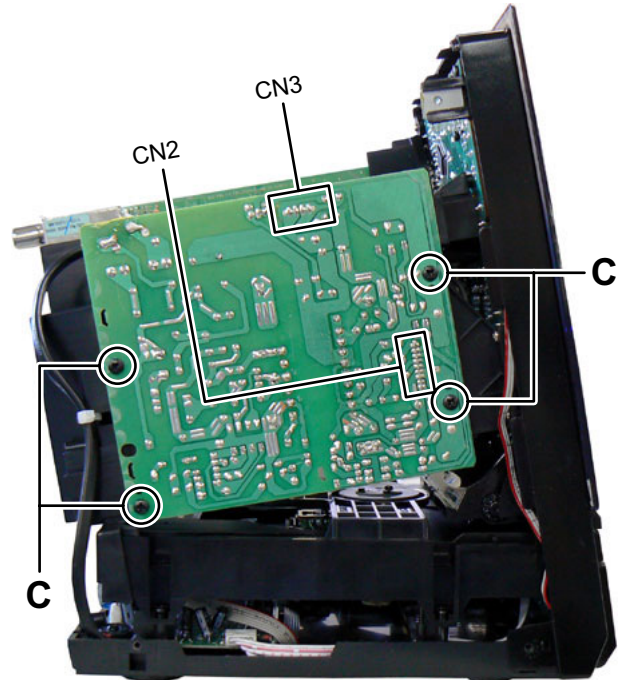


Fig.3

3.1.3 Removing the MCU board (See Fig.4)

- (1) Disconnect the card wire from Tuner pack connected to connector [CN201](#) of the MCU board.
- (2) Disconnect the card wire from Display board connected to connector [CN202](#) of the MCU board.
- (3) Disconnect the connector wire from USB board connected to connector [CN210](#) of the MCU board.
- (4) Disconnect the connector wire from CD board connected to connector [CN208](#) of the MCU board.
- (5) Disconnect the card wire from iPod board connected to connector [CN206](#) of the MCU board.
- (6) Disconnect the card wire from CD board connected to connector [CN207](#) of the MCU board.
- (7) Remove the five screws **D** attaching the MCU board.

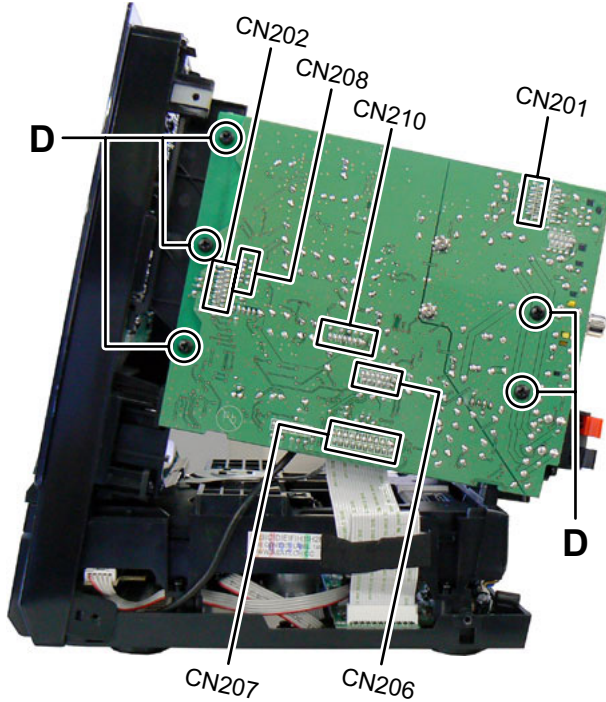


Fig.4

3.1.4 Removing the Front cabinet (See Fig.5 to 7)

- (1) Disconnect the connector wire from USB board connected to connector [CN114](#) of the CD board. (See Fig.5)

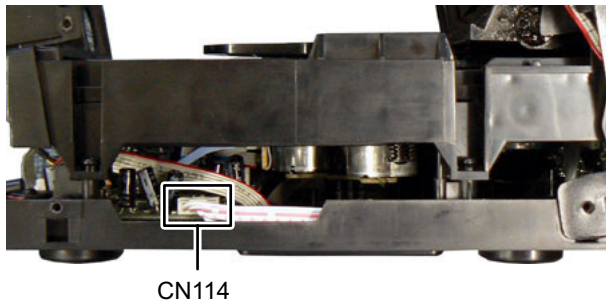


Fig.5

- (2) Remove the two screws **E** attaching the Front cabinet. (See Fig.6)

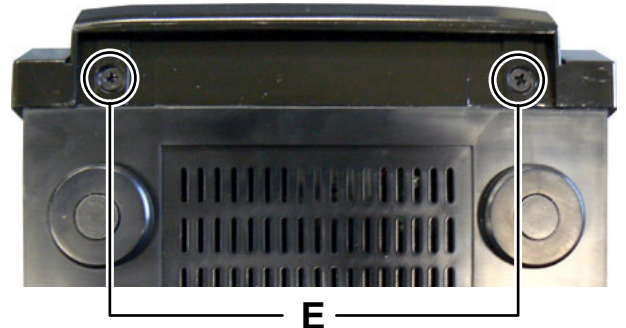


Fig.6

- (3) Disengage two hooks **a** engaged both side of the Front cabinet. (See Fig.7)

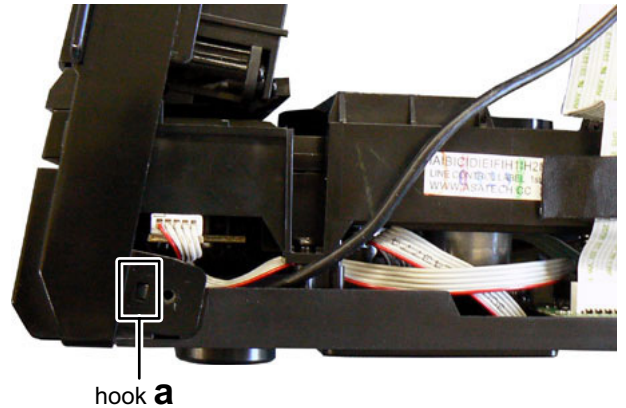


Fig.7

3.1.5 Removing the CD mechanism (See Fig.8 to 10)

- (1) Disconnect the card wire from CD mechanism connected to connector [CN102](#) of the CD board. (See Fig.8)

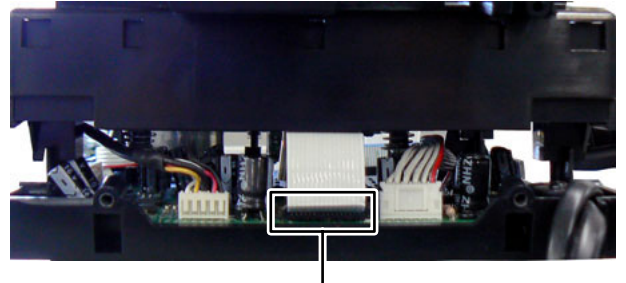


Fig.8

- (2) Disconnect the connector wire from CD board connected to connector of the Loader board. (See Fig.9)
- (3) Disconnect the connector wire from CD board connected to connector of Mechanism board. (See Fig.9)

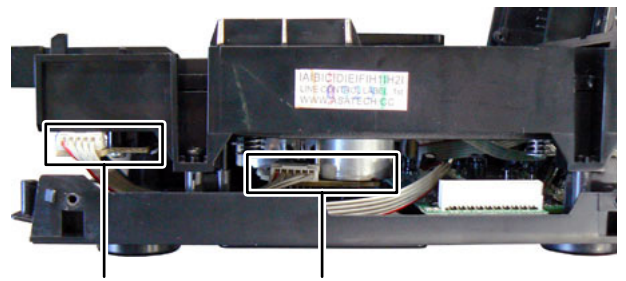


Fig.9

- (4) Remove the four screws **F** attaching the CD mechanism.
(See Fig.10)

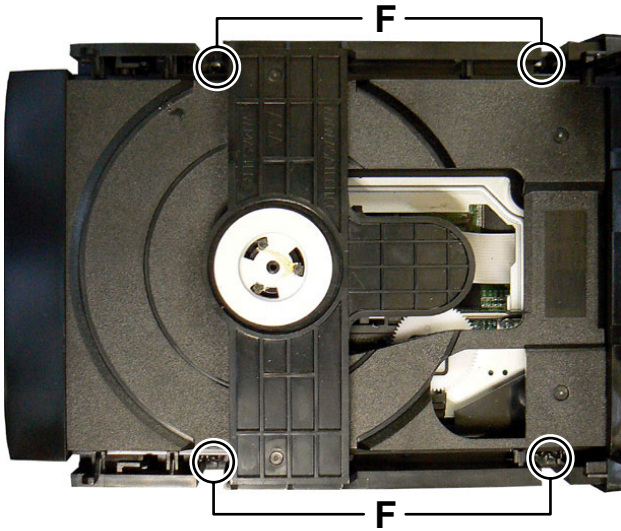


Fig. 10

3.1.6 Removing the Traverse mechanism (See Fig.11)

- (1) Remove the two screws **G** attaching the Traverse mechanism.

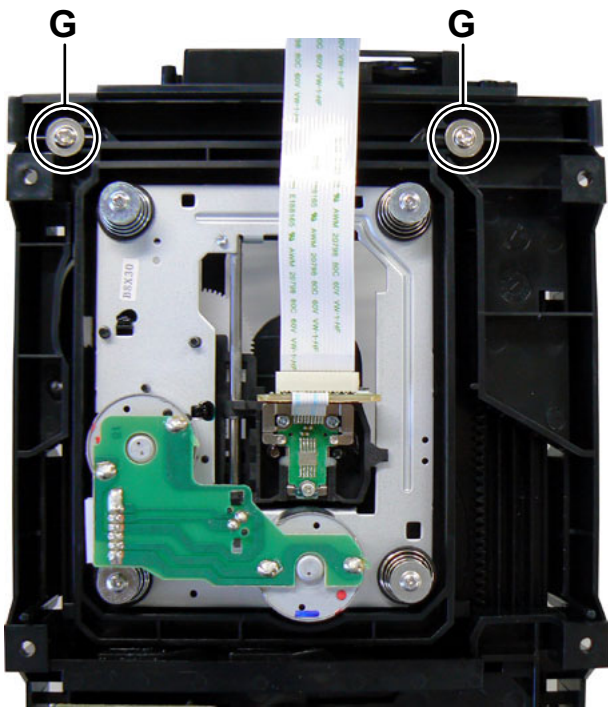


Fig. 11

3.1.7 Removing the CD board (See Fig.12)

- (1) Remove the four screws **H** attaching the CD board.

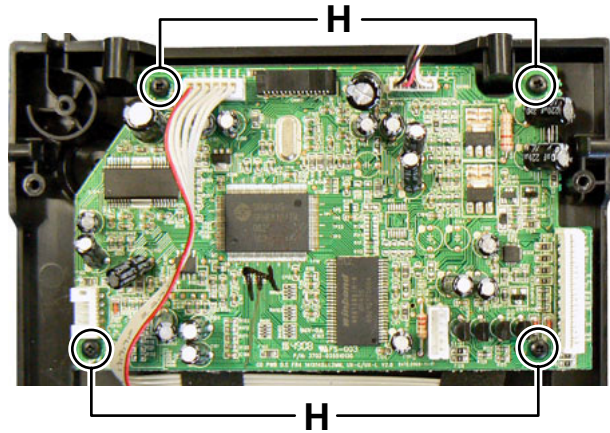


Fig. 12

3.1.8 Removing the LED board (See Fig.13)

- (1) Disconnect the connector wire from Display board connected to connector **CN45** of the LED board.
(2) Remove the two screws **J** and one screw **K** attaching the Reflector bracket.

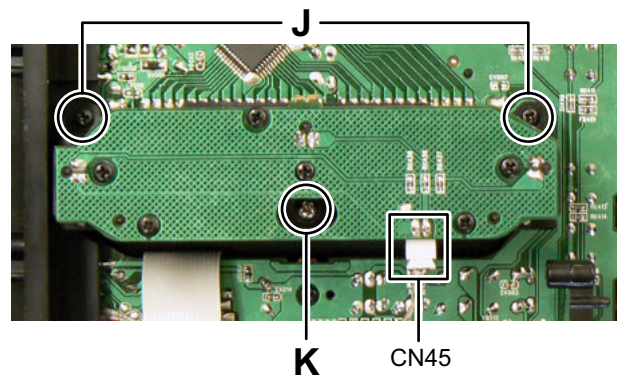


Fig. 13

3.1.9 Removing the Display board (see Fig.14 to 16)

- (1) Remove the six screws **L** attaching the USB board. (See Fig.14)
(2) Disconnect the connector wire from Display board connected to connector **CN43** of the USB board. (See Fig.14)

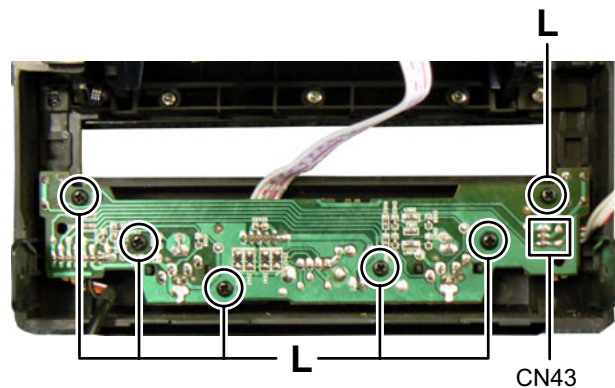


Fig. 14

- (3) Remove the four screws **M** attaching the PCB bracket.
(See Fig.15)

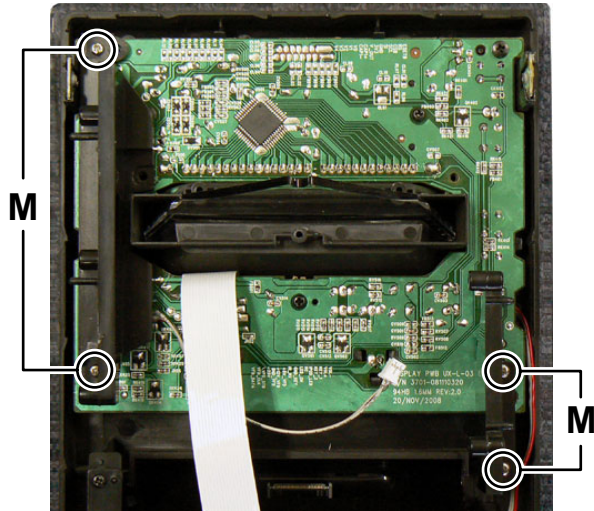


Fig.15

- (4) Remove the two screws **N** and one screw **P** attaching the Display board.
(See Fig.16)

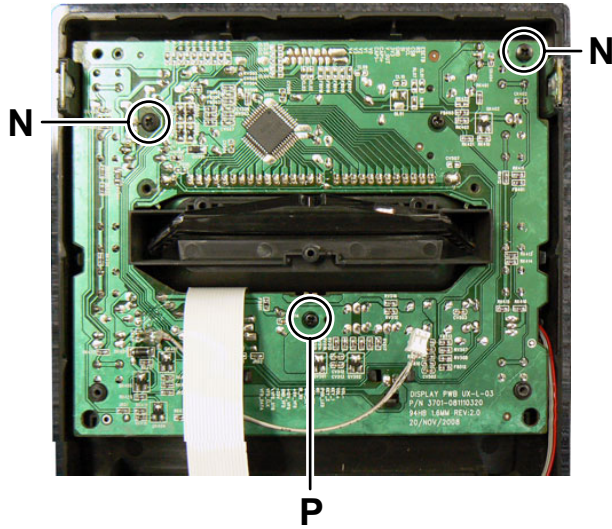


Fig.16

3.1.10 Removing the iPod board (See Fig.17, 18)

- (1) Remove the iPod door cover.
- (2) Remove the Eject spring. (See Fig.17)
- (3) Remove the one screw **Q** and one screw **R** attaching the Cassette lid latch. (See Fig.17)
- (4) Remove the one screw **S** attaching the Cassette cam bracket. (See Fig.17)
- (5) Remove the one screw **T** and one screw **U** attaching the iPod door bracket. (See Fig.17)

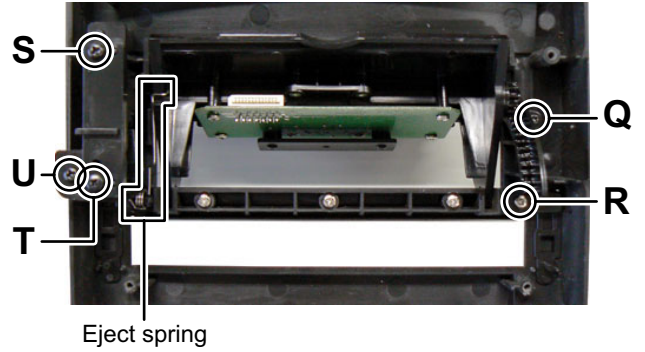


Fig.17

- (6) Remove the four screws **V** attaching the Cosmetic frame.
(See Fig.18)
- (7) It takes both picks off the hook and take off iPod door while inclining the fulcrum of the door inward. (See Fig.18)

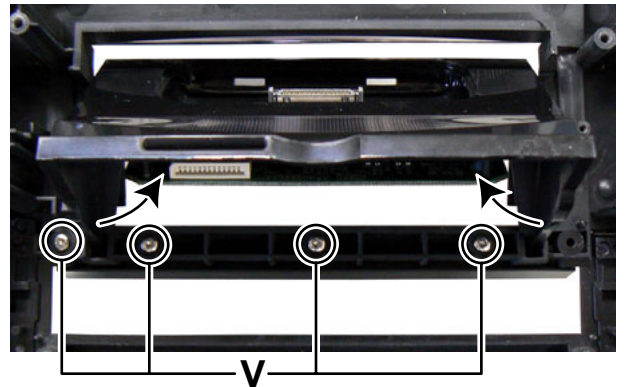


Fig.18

SECTION 4 ADJUSTMENT

This service manual does not describe ADJUSTMENT.

SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.



JVC

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(No.MB698<Rev.004>)

Printed in Japan
VSE

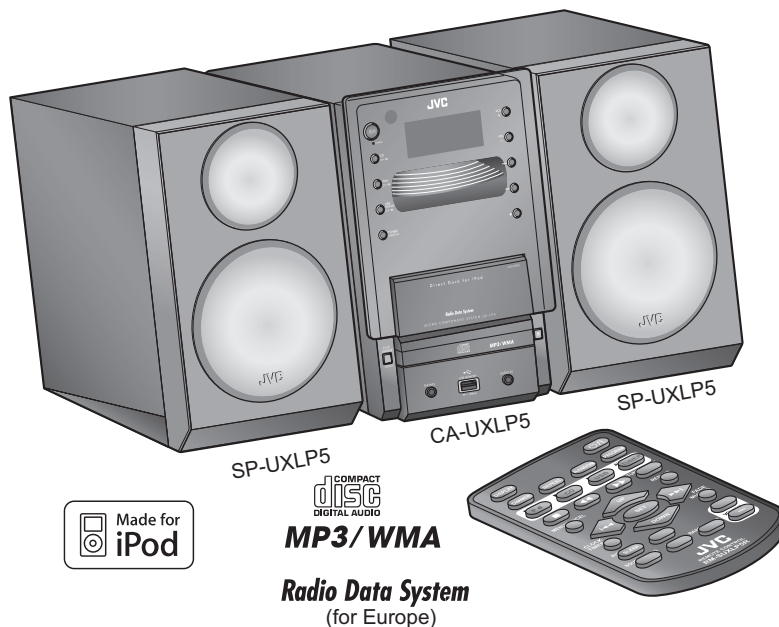
JVC

SCHEMATIC DIAGRAMS

MICRO COMPONENT SYSTEM

UX-LP5B, UX-LP5E, UX-LP5EN, UX-LP5EV, UX-LP5J, UX-LP5C, UX-LP5A, UX-LP5US, UX-LP5UB, UX-LP5UP, UX-LP5UT

DVD-ROM No.SML2009S2



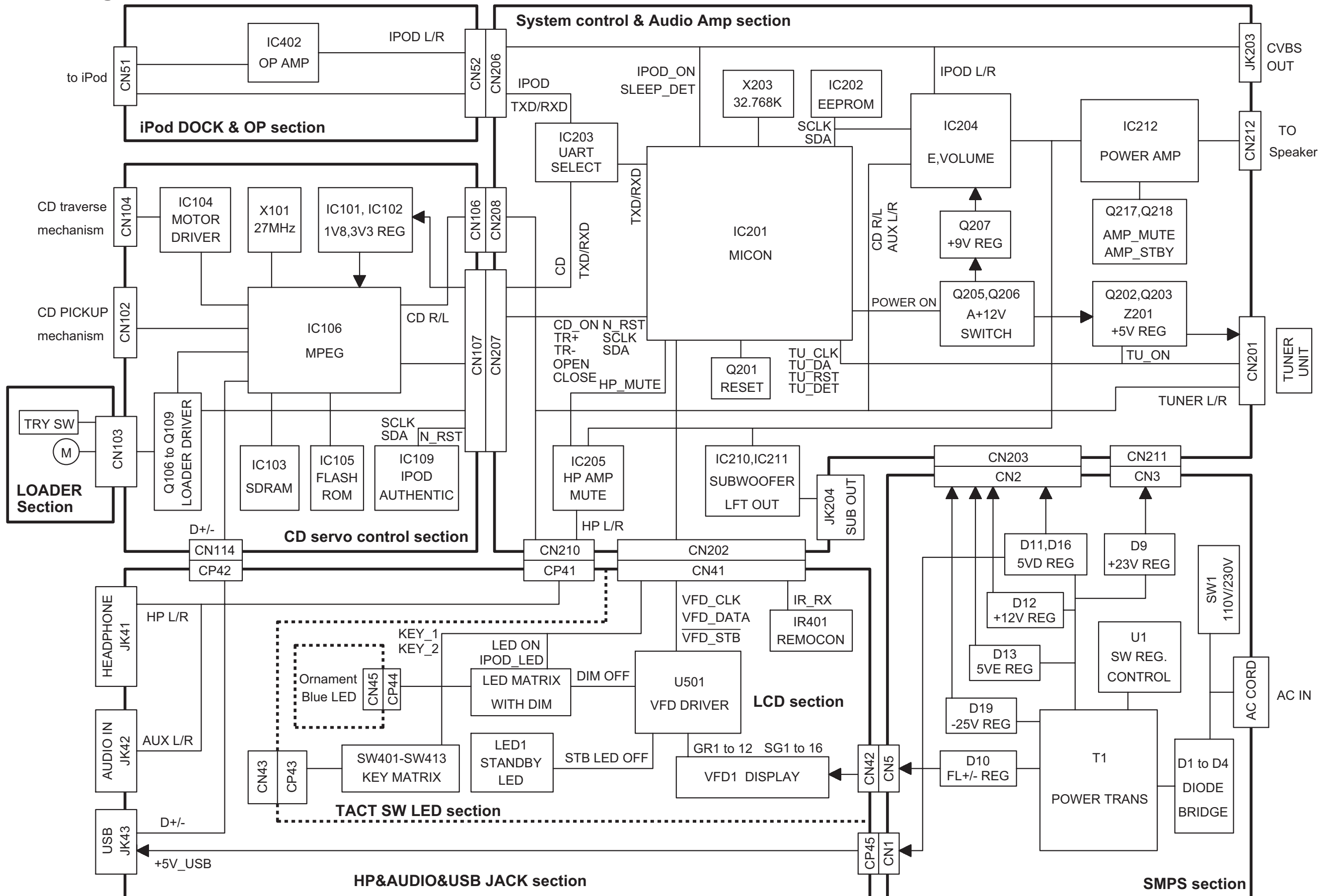
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

Block diagrams	2-1
Standard schematic diagrams	2-2
Printed circuit boards	2-10 to 14

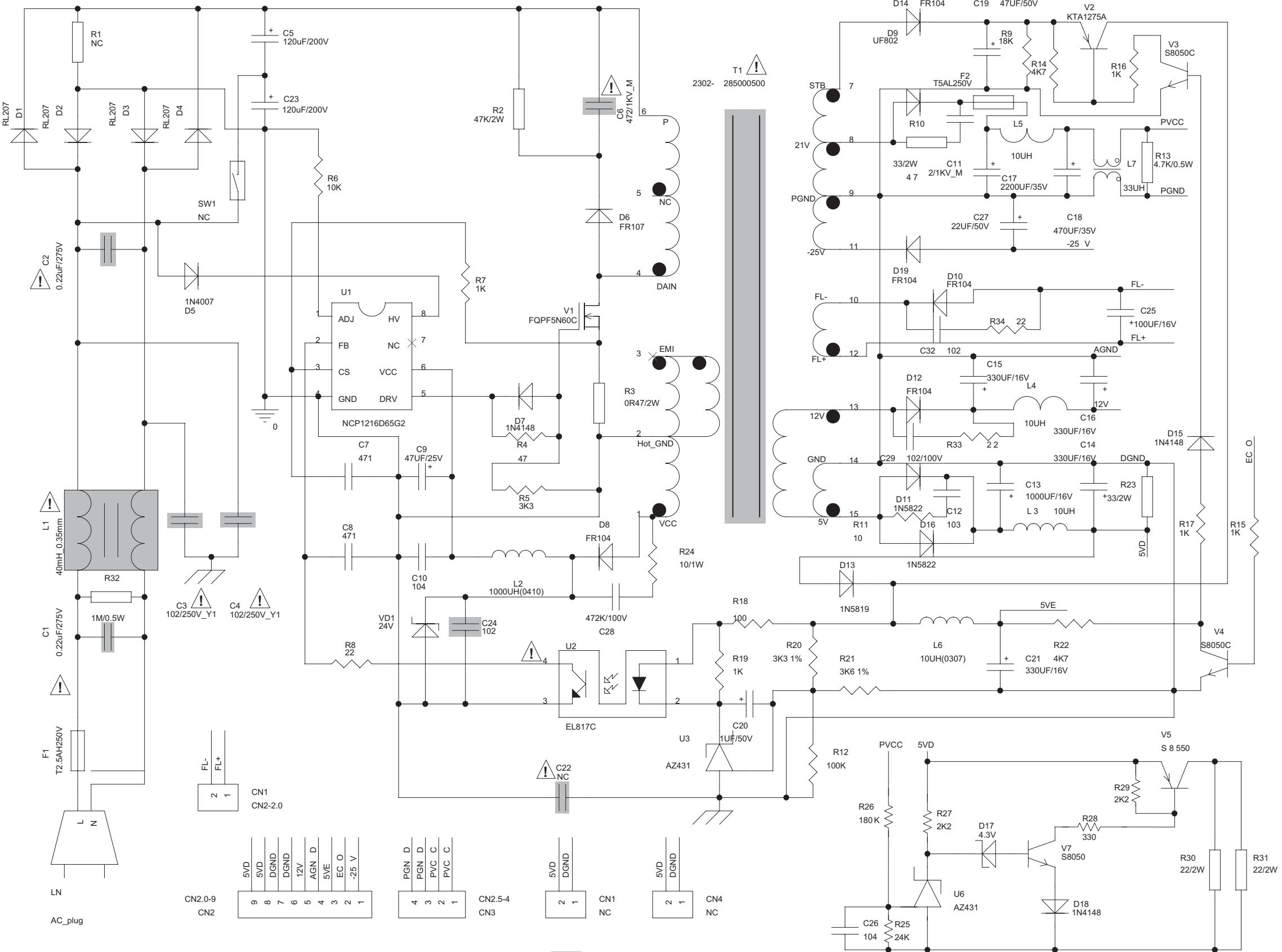
In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (▣) and ICP (●) or identified by the "▲" mark nearby are critical for safety.

Block diagram



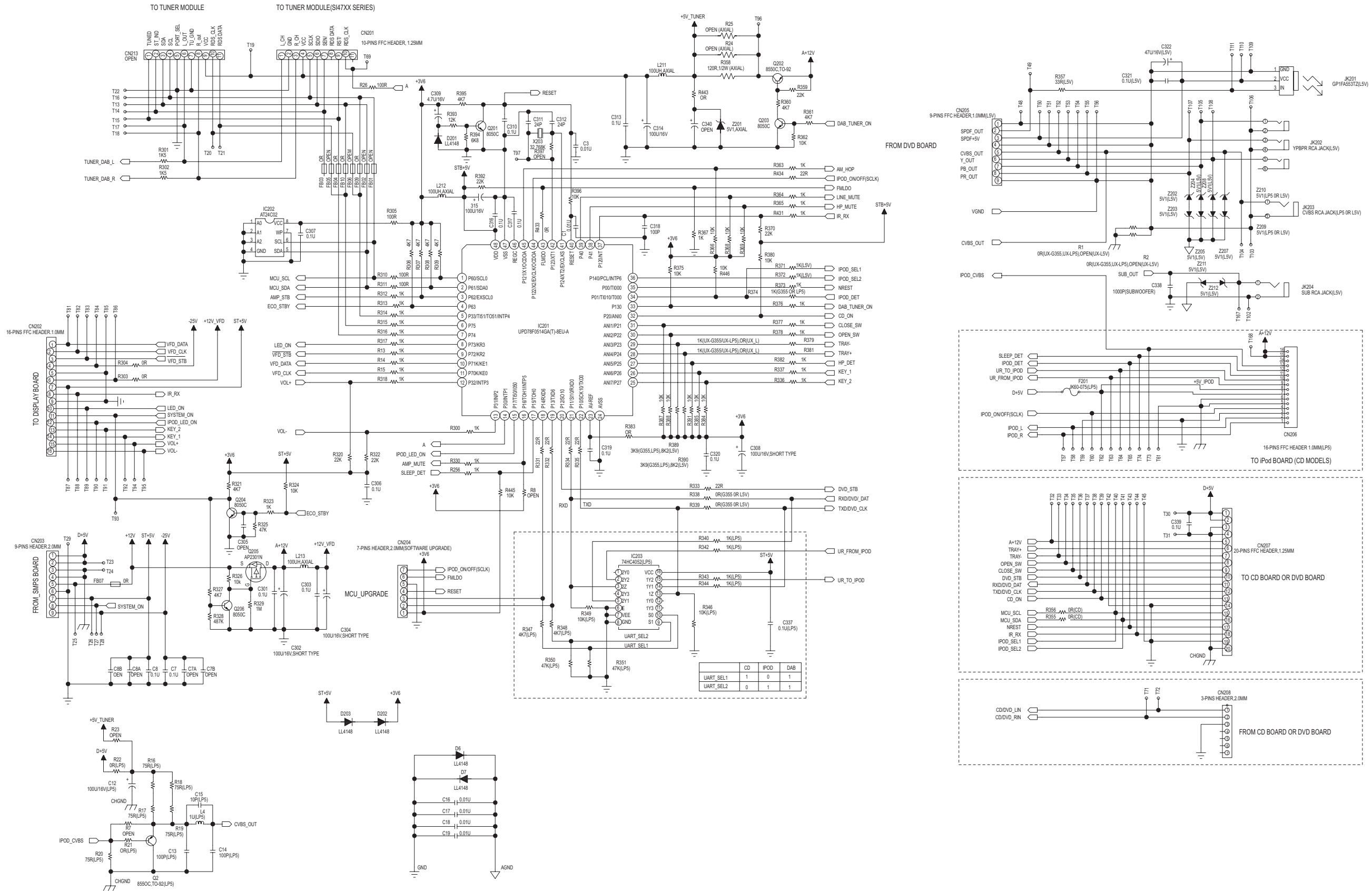
Standard schematic diagrams

Smmps section



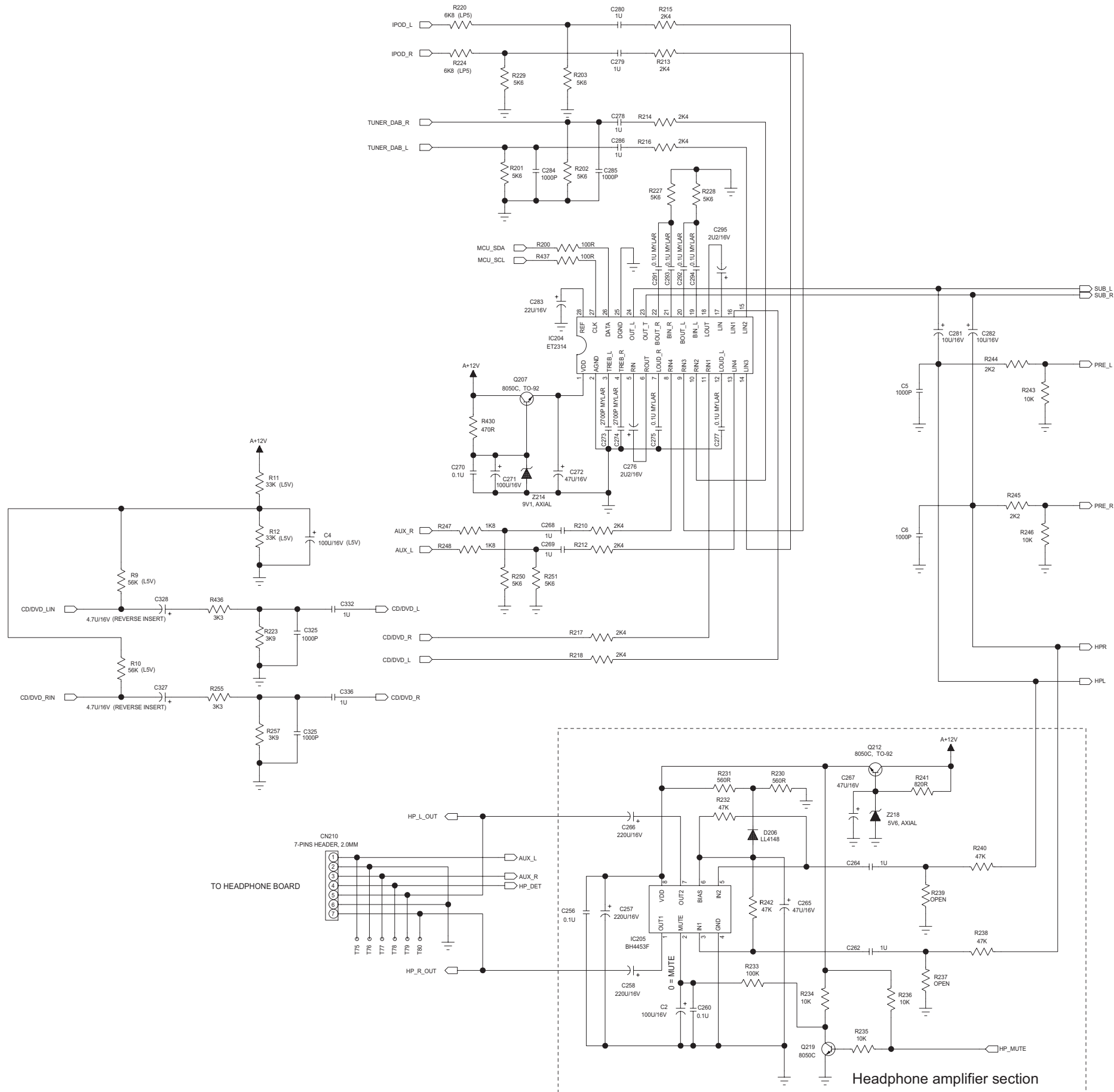
Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Main section 1

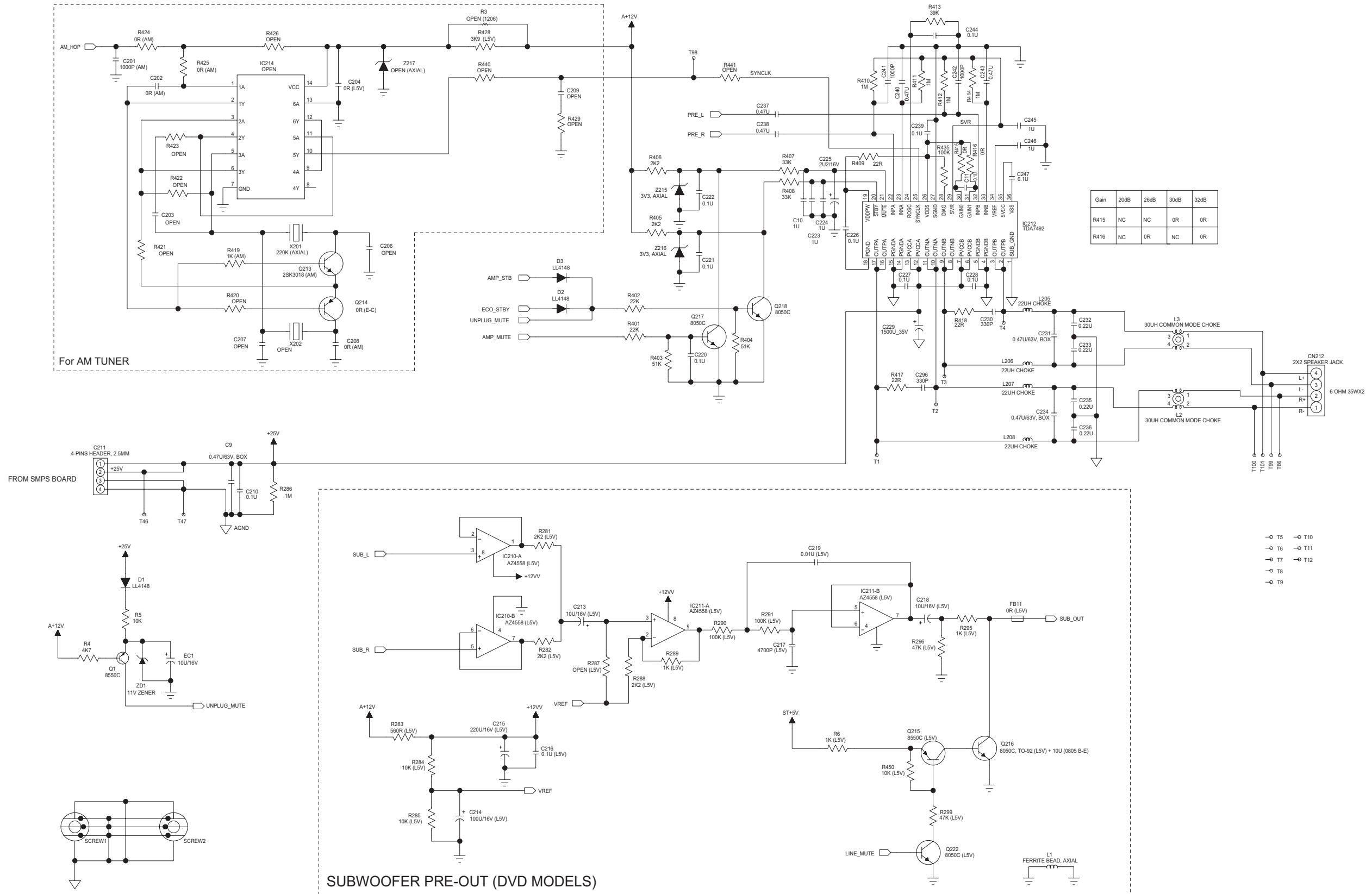


	CD	IPOD	DAB
UART_SEL1	1	0	1
UART_SEL2	0	1	1

■ Main section 2



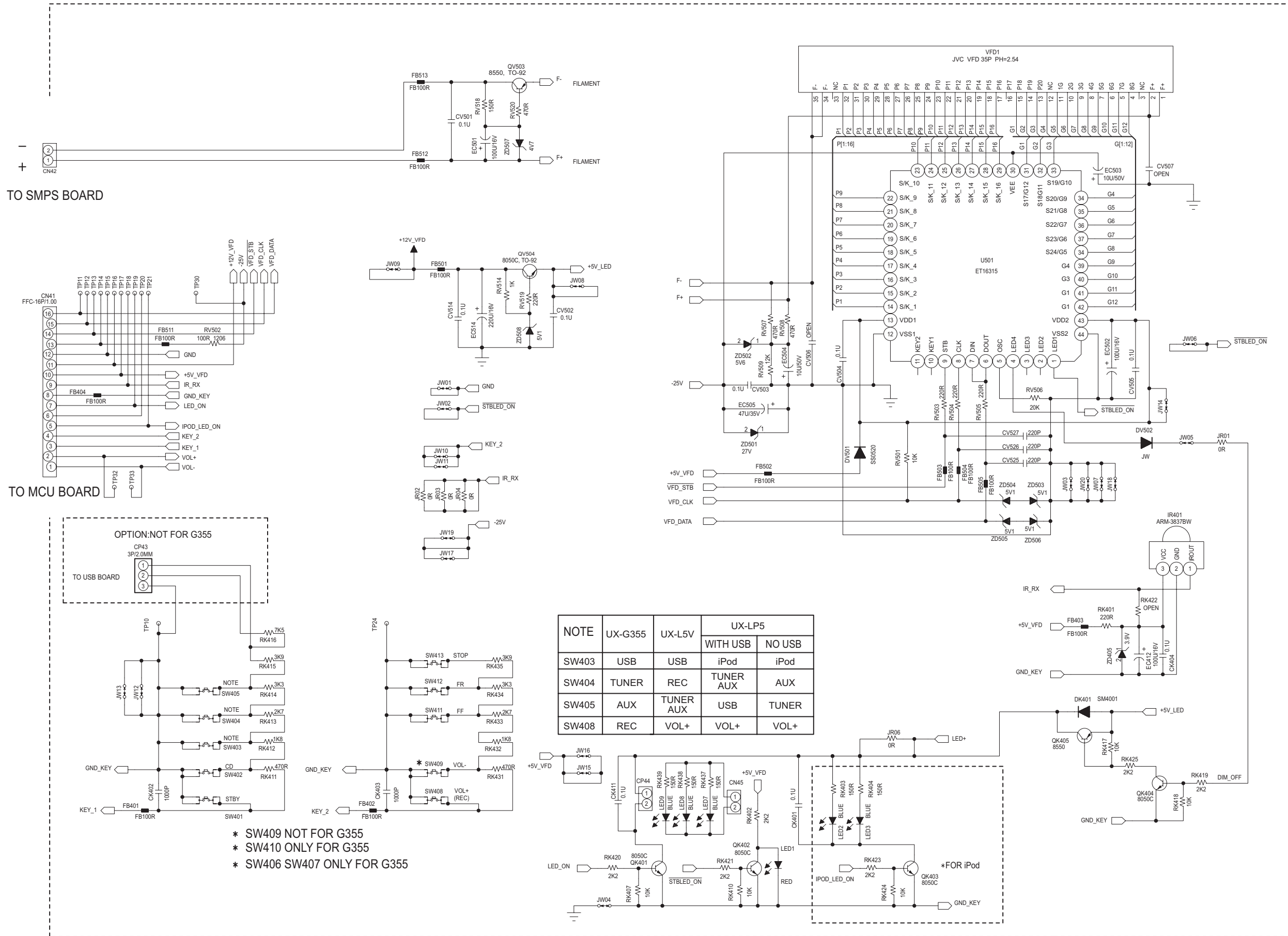
Main section 3



Gain	20dB	26dB	30dB	32dB
R415	NC	NC	0R	0R
R416	NC	0R	NC	0R

- > T5 -> T10
- > T6 -> T11
- > T7 -> T12
- > T8
- > T9

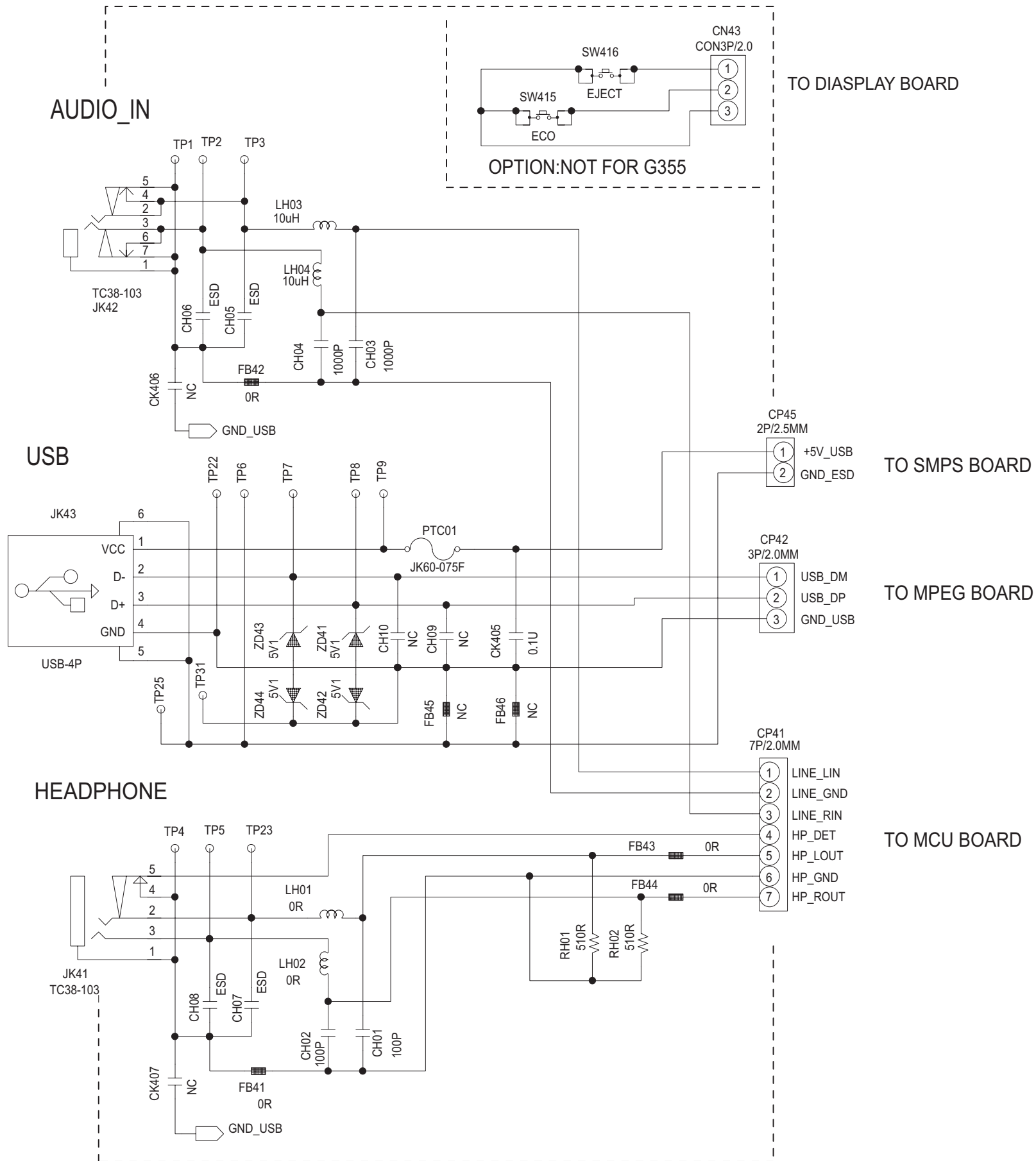
■ Front section



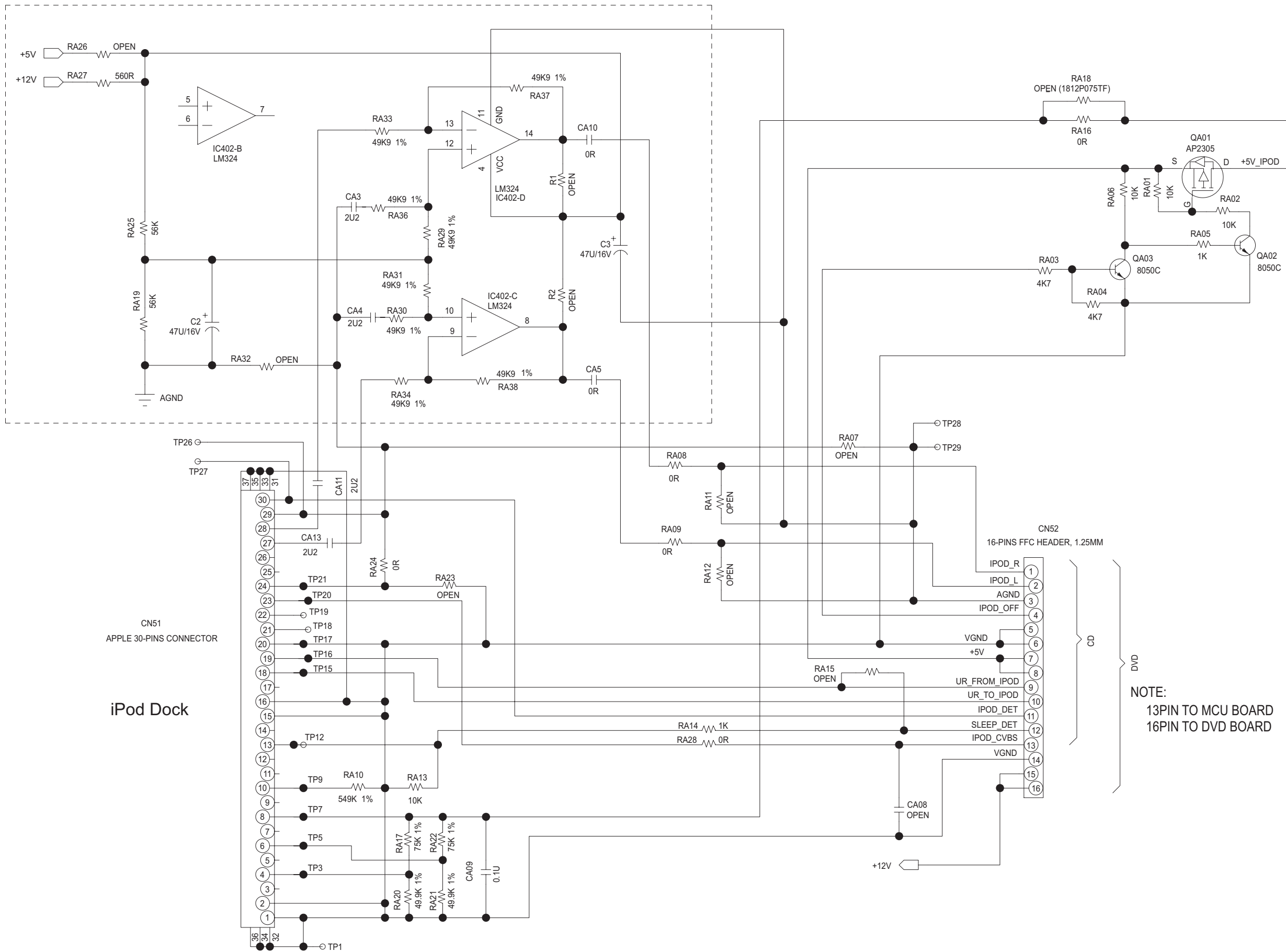
NOTE	UX-G355	UX-L5V	UX-LP5	
			WITH USB	NO USB
SW403	USB	USB	iPod	iPod
SW404	TUNER	REC	TUNER AUX	AUX
SW405	AUX	TUNER AUX	USB	TUNER
SW408	REC	VOL+	VOL+	VOL+

- * SW409 NOT FOR G355
- * SW410 ONLY FOR G355
- * SW406 SW407 ONLY FOR G355

■ Front jack section

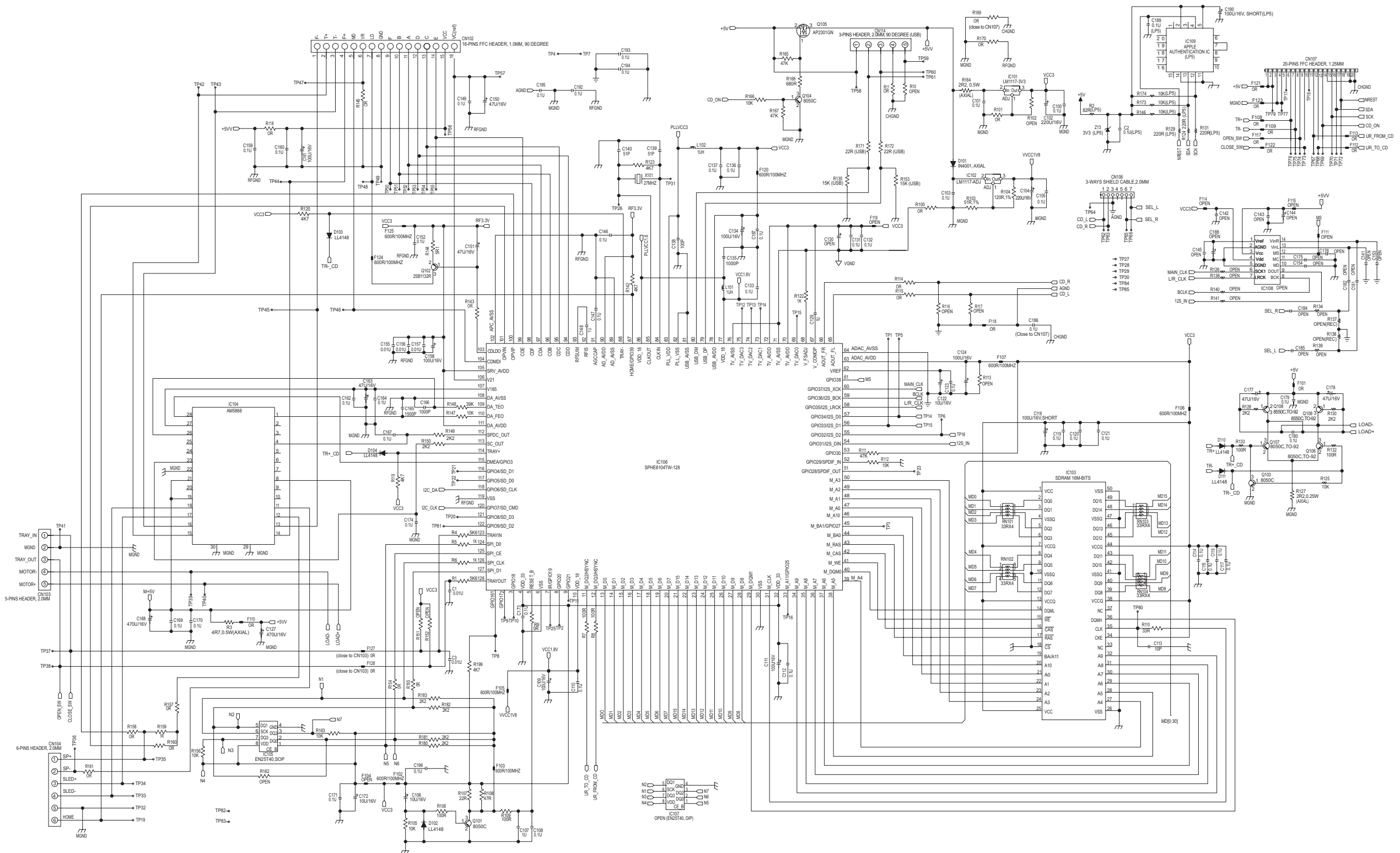


ipod section



NOTE:
13PIN TO MCU BOARD
16PIN TO DVD BOARD

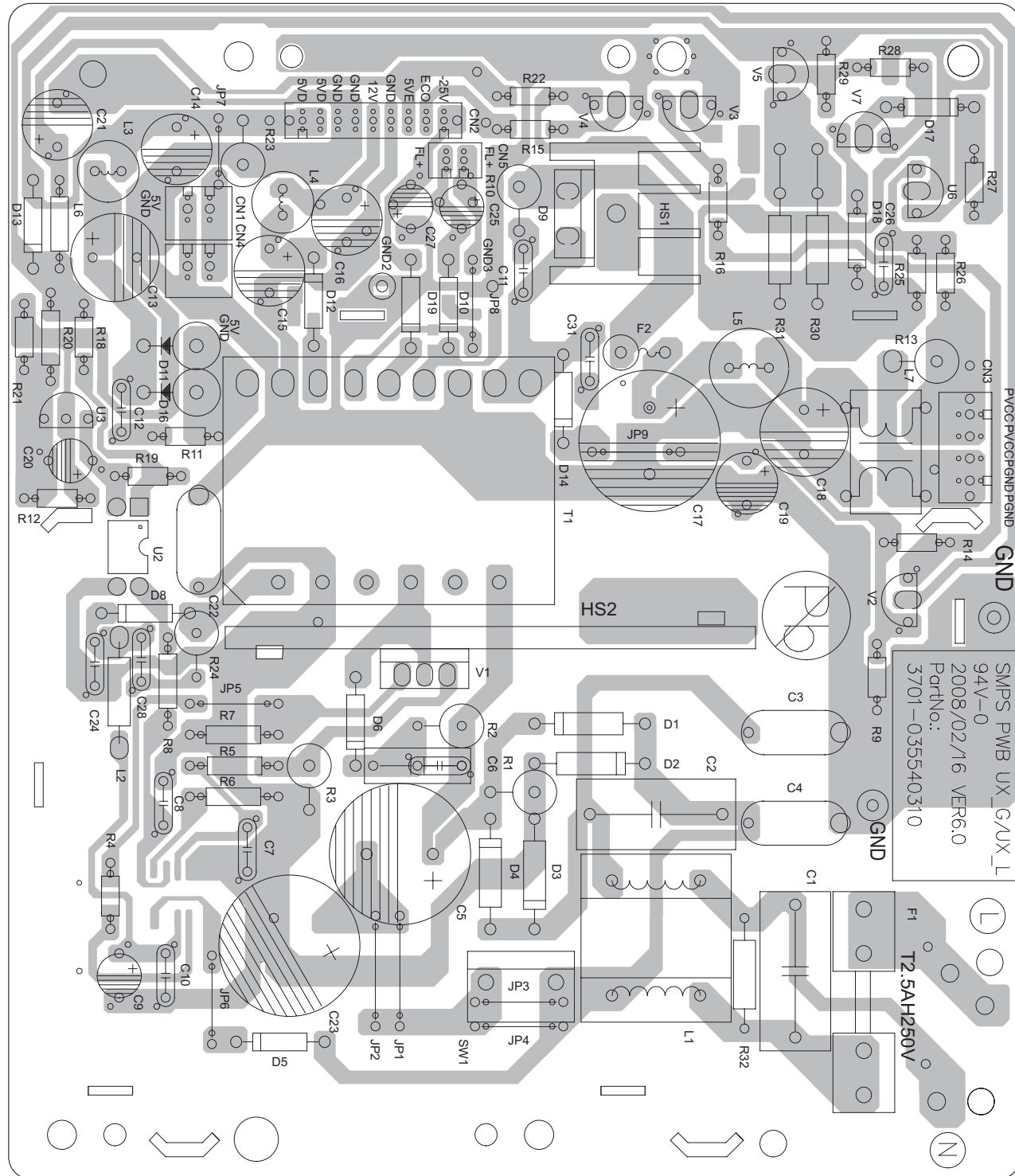
■ CD section



Printed circuit boards

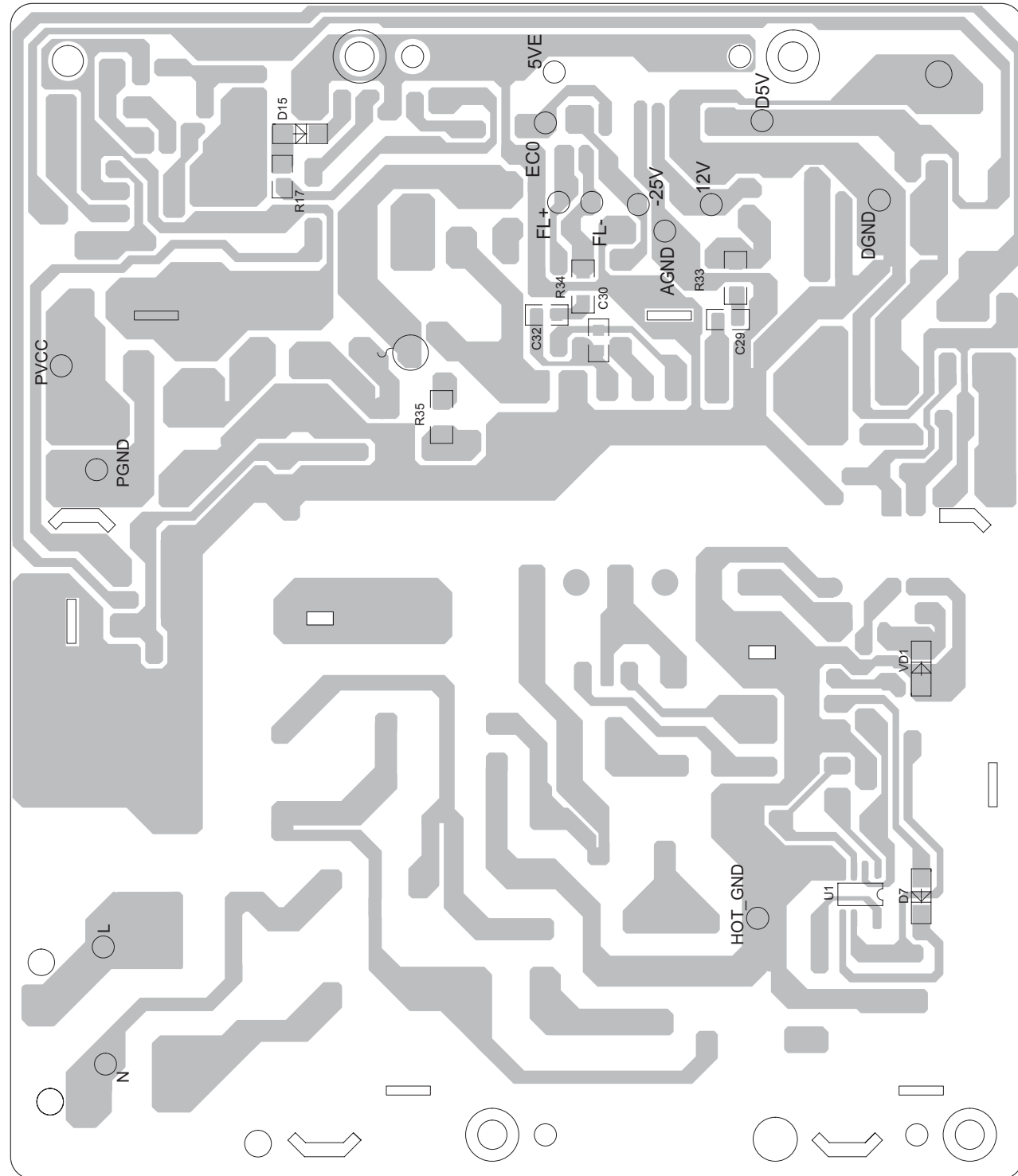
■ Smps board (forward side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



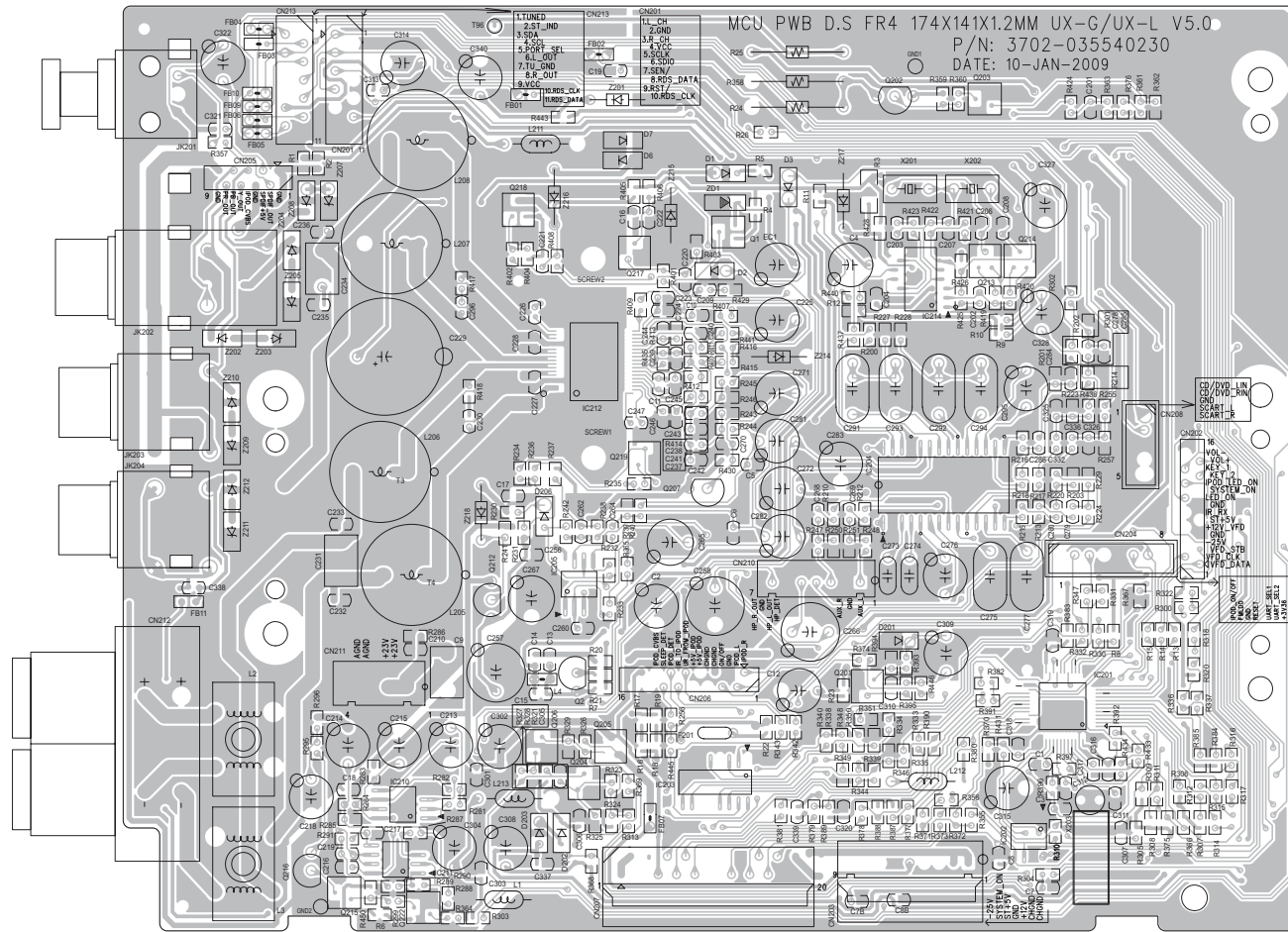
■ Smps board (reverse side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



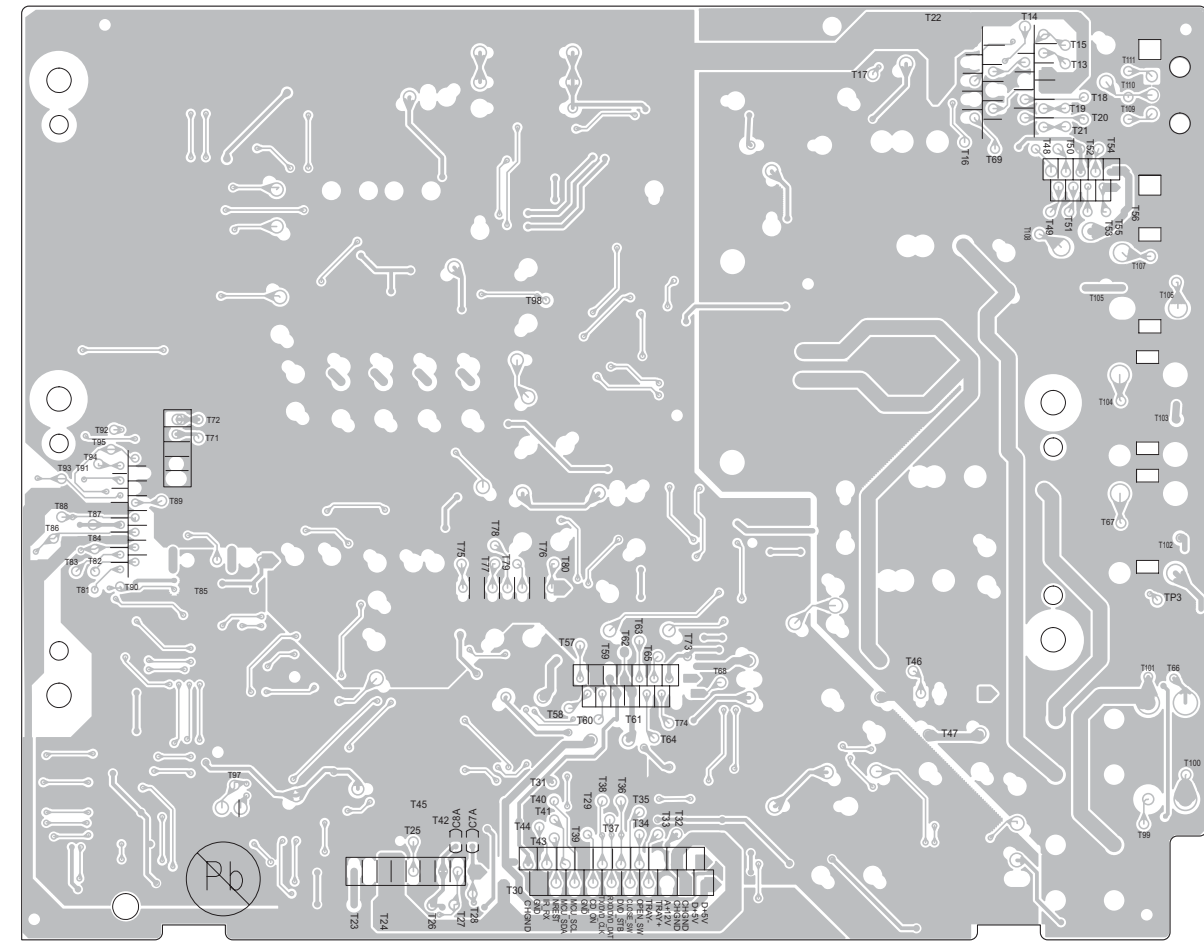
■ Main board (forward side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



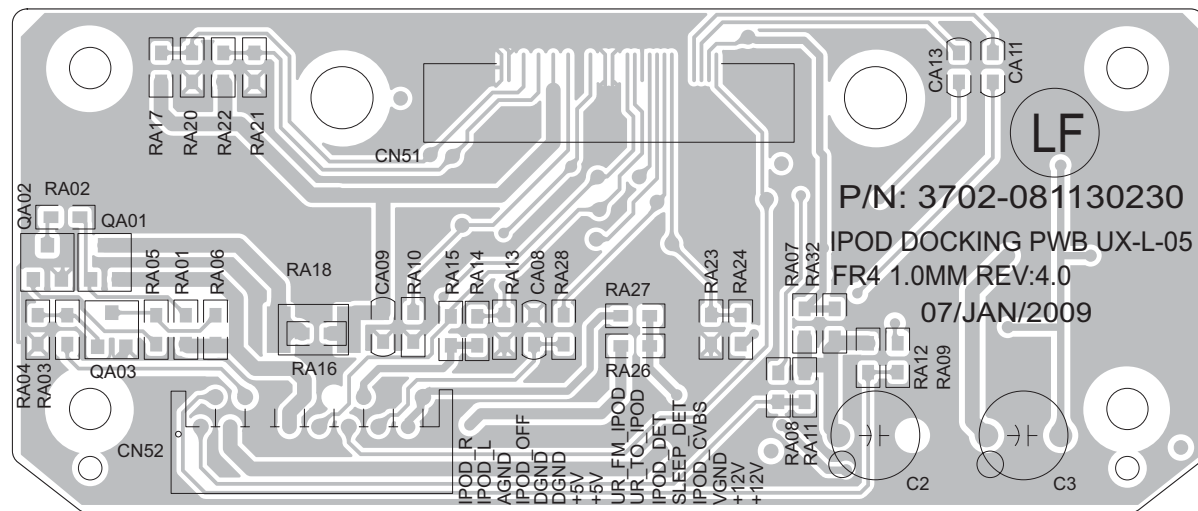
■ Main board (reverse side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



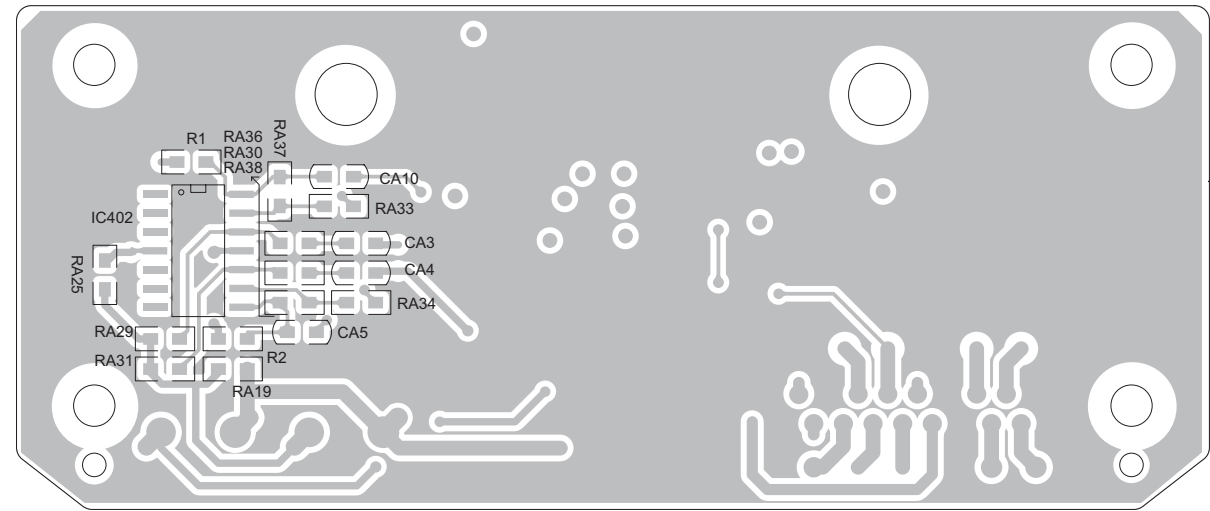
■ iPod board (forward side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



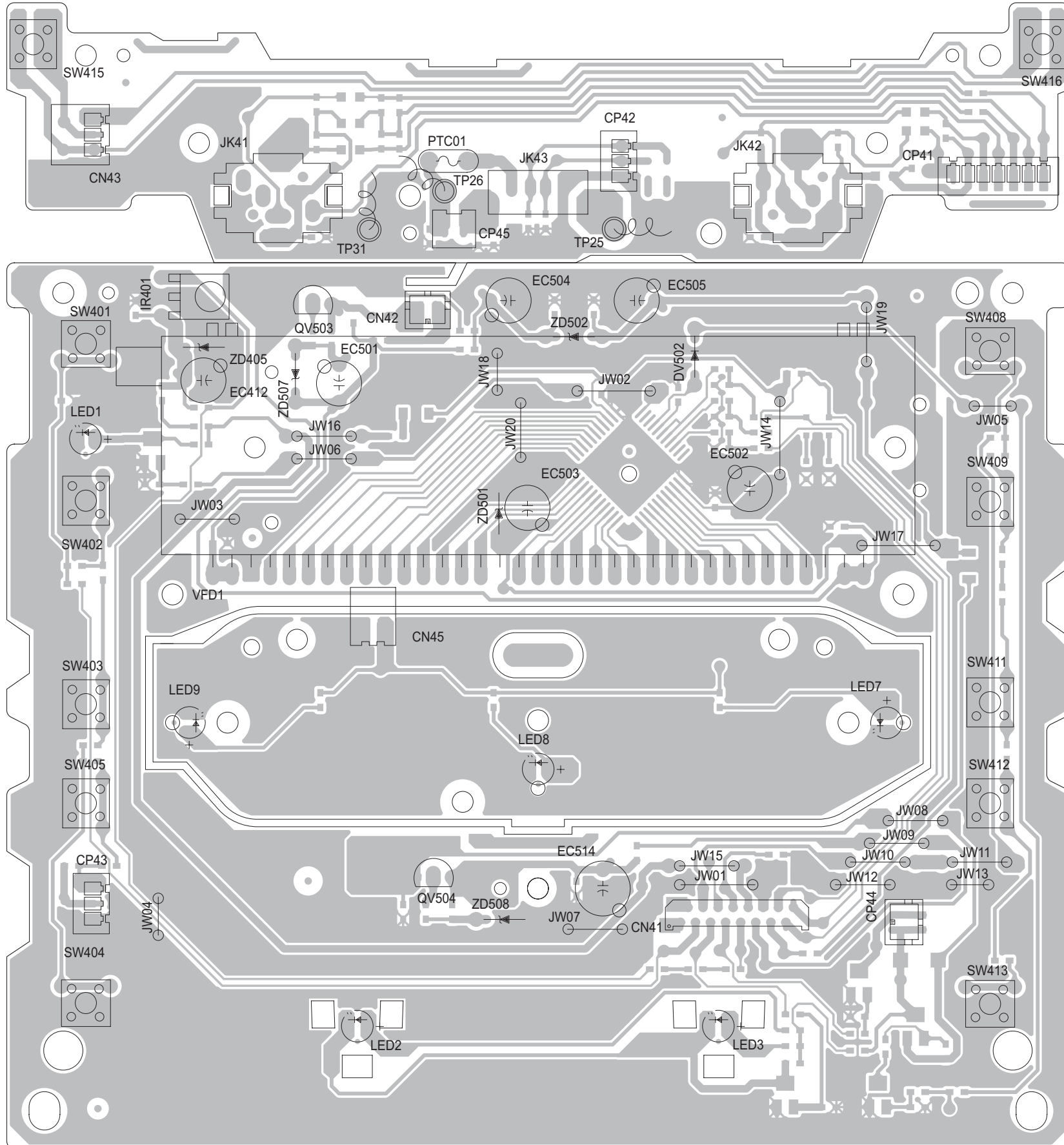
■ iPod board (reverse side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



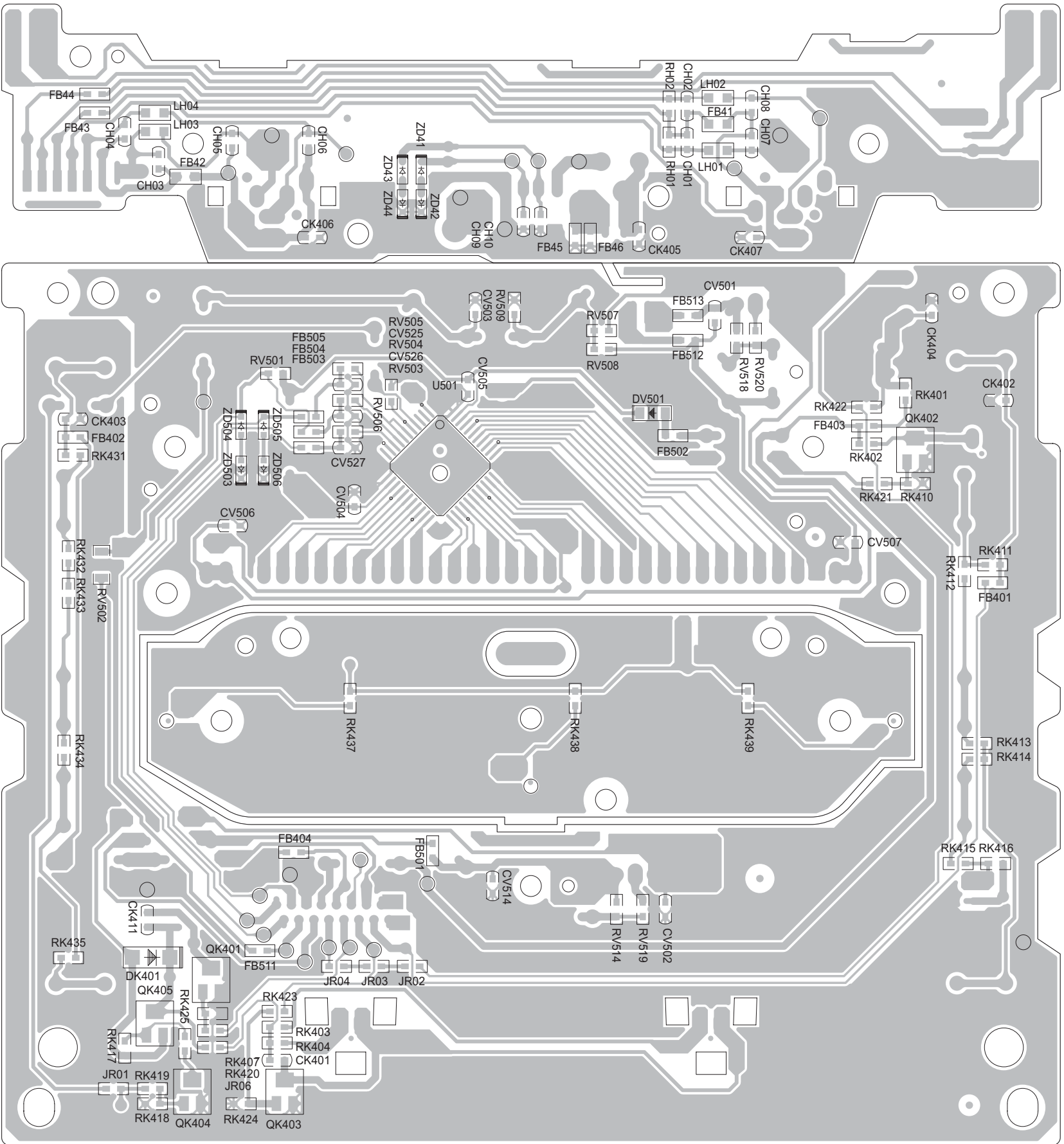
■ Front board (forward side)

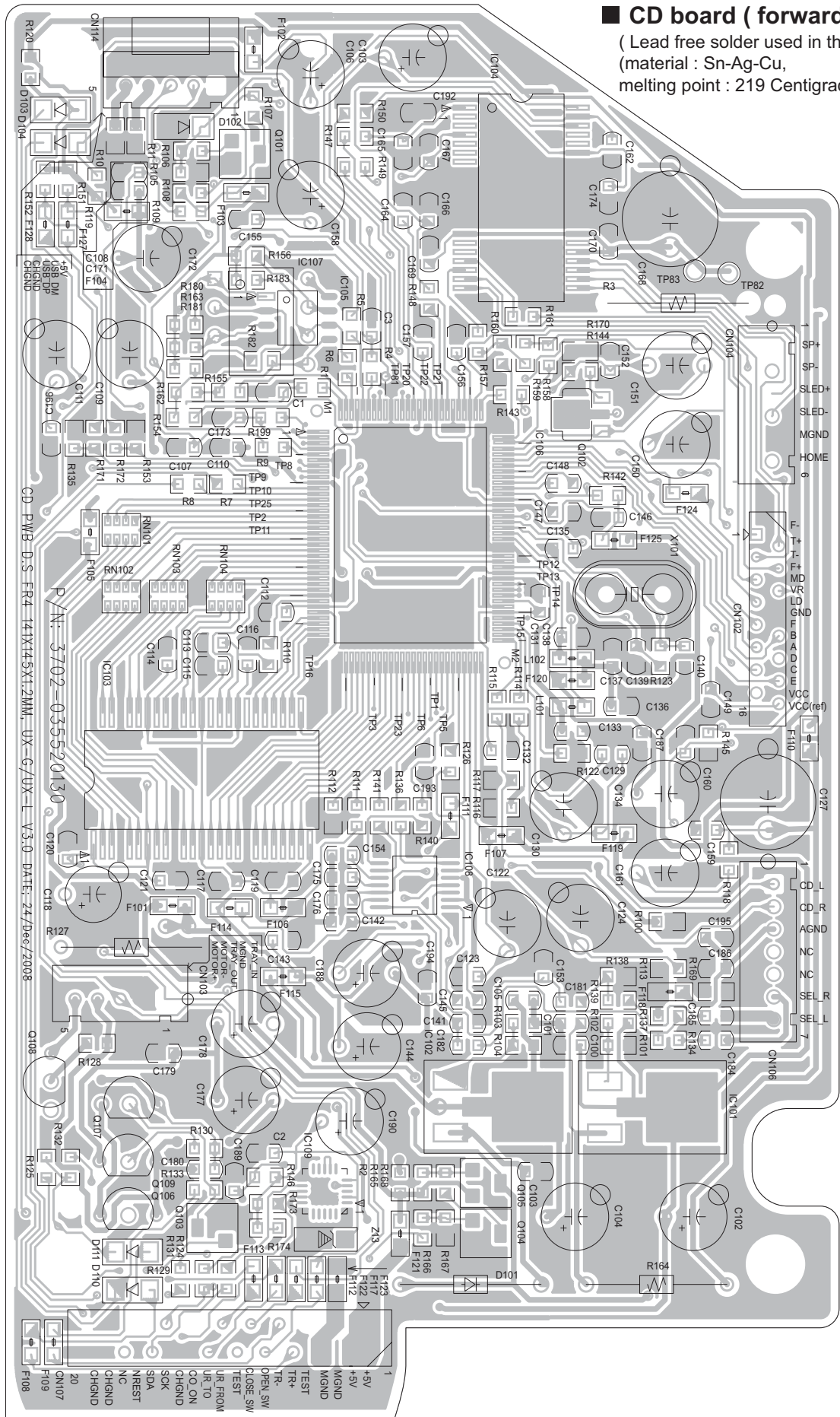
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



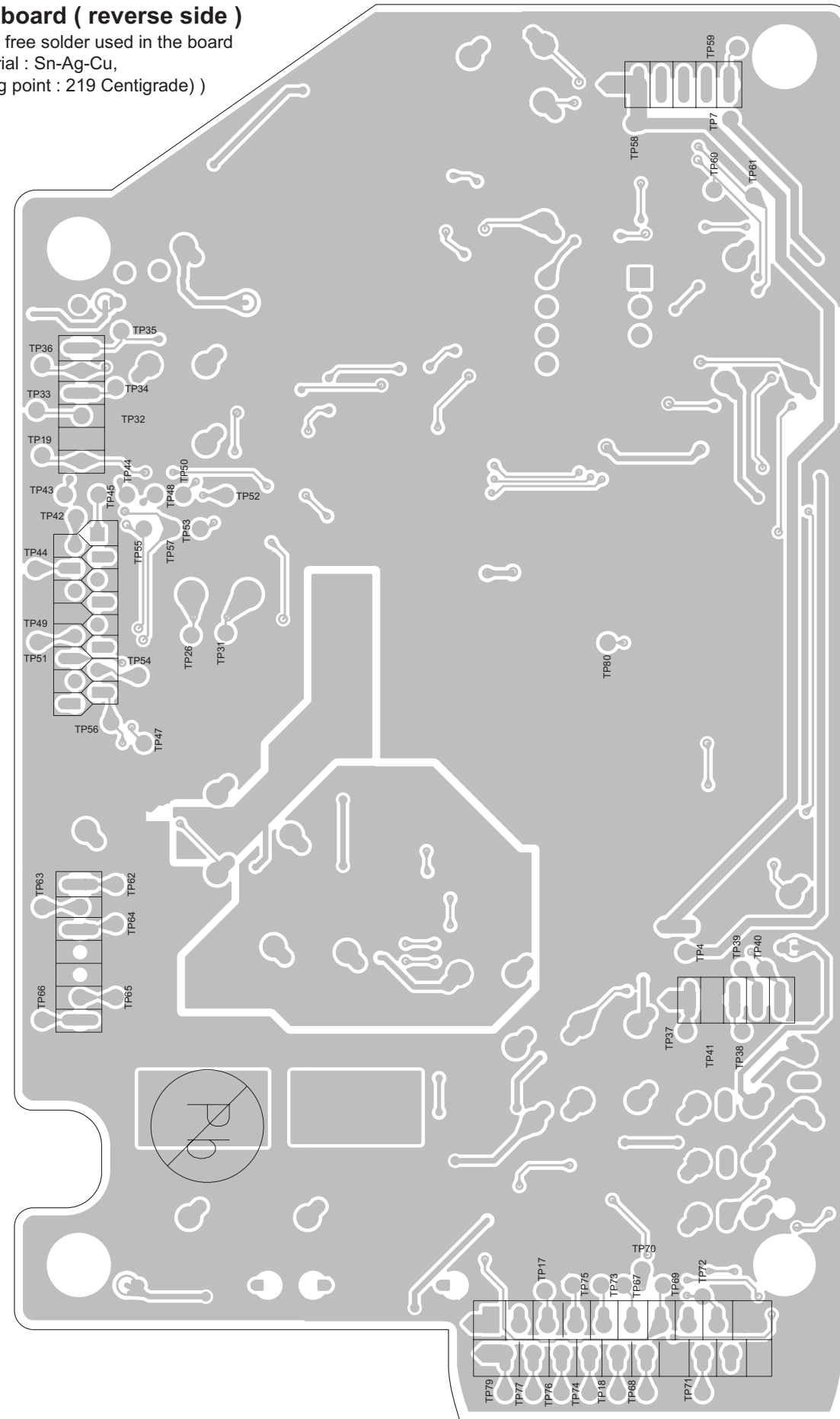
Front board (reverse side)

(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))





CD board (reverse side)
 (Lead free solder used in the board
 (material : Sn-Ag-Cu,
 melting point : 219 Centigrade))



< MEMO >



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