JVC

SERVICE MANUAL

BLU-RAY DISC PLAYER

XV-BP1J, XV-BP1C, XV-BP1B, XV-BP1E, XV-BP1EN, XV-BP1EV, XV-BP1EE, XV-BP1US, XV-BP1UX, XV-BP1UJ

(Except J,C,UJ)

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

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No.MB706<Rev.002>
2009/7

SPECIFICATION

For Northern America

General	
Power requirements	AC 120 V~, 60 Hz
Power consumption	18W
Dimensions (W × H × D)	Approx. 16.9 x 2.1 x 9.7 inches (430 x 54 x 245 mm) without foot
Net Weight (Approx.)	6.2 lbs (2.8 kg)
Operating temperature	41 °F to 95 °F (5 °C to 35 °C)
Operating humidity	5 % to 90 %
Outputs	
VIDEO OUT	1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack × 2
HDMI OUT (video/audio)	19 pin (HDMI standard, Type A)
ANALOG AUDIO OUT	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) × 1
DIGITAL OUT (COAXIAL)	0.5 V (p-p), 75 Ω, RCA jack × 1
DIGITAL OUT (OPTICAL)	3 V (p-p), Optical jack × 1
System	
Laser	Semiconductor laser, wavelength: 405nm / 650 nm
Signal system	Standard NTSC Color TV system
Frequency response	20 Hz to 20 kHz (48 kHz, 96 kHz, 192 kHz sampling)
Signal-to-noise ratio	More than 100 dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95 dB
LAN port	Ethernet jack × 1, 10BASE-T/100BASE-TX

Design and specifications are subject to change without prior notice.

For Europe

General	
Power requirements	AC 220-240 V ~, 50/60 Hz
Power consumption	18W
Dimensions (W × H × D)	Approx. 430 × 54 × 245 mm without foot
Net Weight (Approx.)	2.8 kg
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 90 %
Outputs	
VIDEO OUT	1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack × 2
HDMI OUT (video/audio)	19 pin (HDMI standard, Type A)
ANALOGUE AUDIO OUT	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) × 1
DIGITAL OUT (COAXIAL)	0.5 V (p-p), 75 Ω, RCA jack × 1
DIGITAL OUT (OPTICAL)	3 V (p-p), Optical jack × 1
System	
Laser	Semiconductor laser, wavelength: 405nm / 650 nm
Signal system	Standard PAL/NTSC Colour TV system
Frequency response	20 Hz to 20 kHz (48 kHz, 96 kHz, 192 kHz sampling)
Signal-to-noise ratio	More than 100 dB (ANALOGUE OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 95 dB
LAN port	Ethernet jack × 1, 10BASE-T/100BASE-TX
Bus power supply	DC 5 V 500 mA

Design and specifications are subject to change without prior notice.

For Asia

General	
Power requirements	AC 110-240 V ~, 50/60 Hz
Power consumption	18W
Dimensions (W × H × D)	Approx. 430 × 54 × 245 mm without foot
Net Weight (Approx.)	2.8 kg
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 90 %
Outputs	
VIDEO OUT	1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack × 1
	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack × 2
HDMI OUT (video/audio)	19 pin (HDMI standard, Type A)
ANALOGUE AUDIO OUT	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) × 1
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LAN port	Ethernet jack × 1, 10BASE-T/100BASE-TX
Bus power supply	DC 5 V 500 mA

Design and specifications 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.

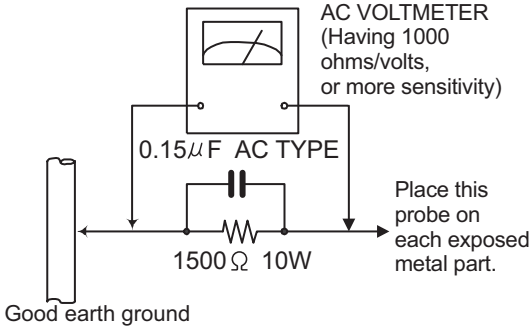
(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage 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 (⚠) 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 parts 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, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF 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 preforming 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 (▬), diode (▮) and ICP (●) or identified by the " ⚠ " 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 dose not Except the J and C version)

1.5 Preventing static electricity

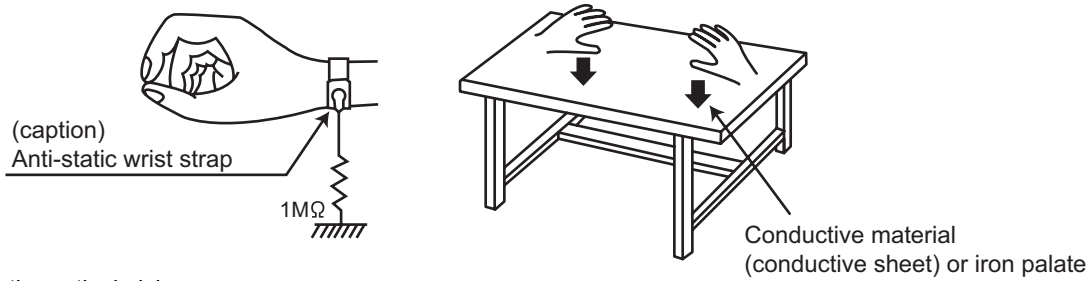
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

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.

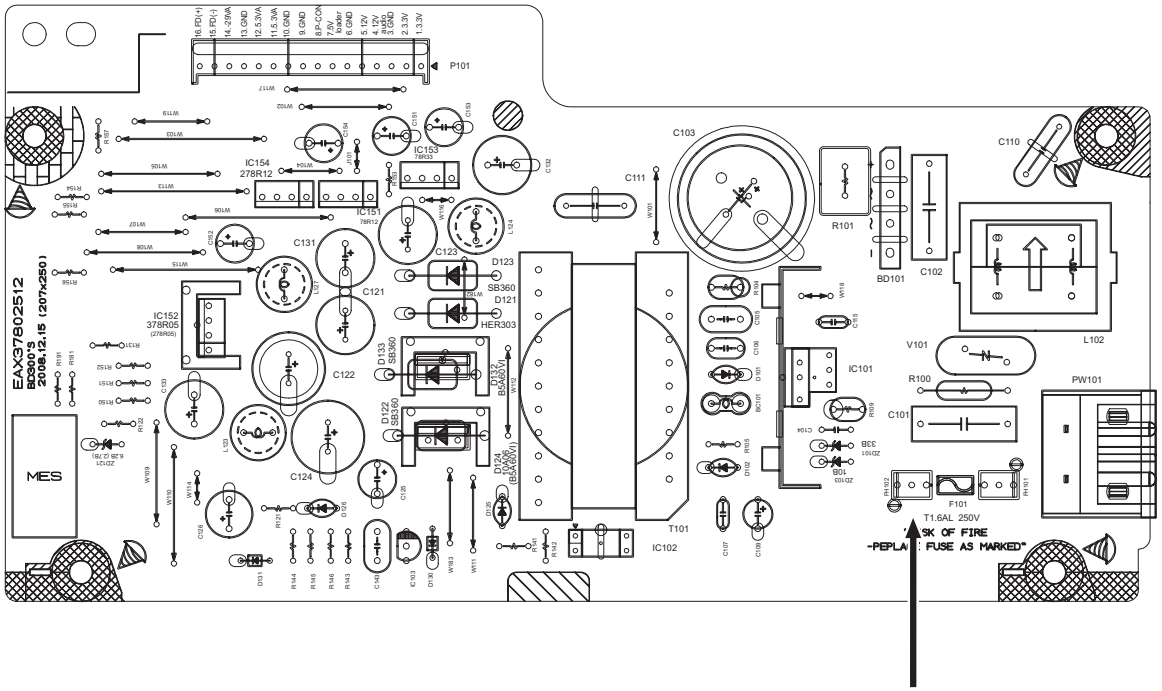
(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(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 Importance administering point on the safety



Full Fuse Replacement Marking	Marquage Pour Le Remplacement Complet De Fusible
Graphic symbol mark (This symbol means fast blow type fuse.)  should be read as follows ;	Le symbole graphique (Ce symbole signifie fusible de type á fusion rapide.)  doit être interprété comme suit ;
FUSE CAUTION	**PRECAUTIONS SUR LES FUSIBLES**
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ; F901 : 3.5A 125V	**POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;** F901 : 3.5A 125V

1.7 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.

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.**

(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.

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

VARO!: Avattaessa olet alttiina nakyvalle ja/tai näkymättömälle luokan 1M lasersateilylle. 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 directamente com instrumentos ópticos.

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

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 级镭射。
不要使用光学仪器直接进行窥视。

تنبيه: يوجد إشعاع ليزري مرئي و/أو غير مرئي من الفئة 1M عندما يكون الجهاز مفتوحا. 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 OF LABELS and PRINT

WARNING LABEL and PRINT

CAUTION	ATTENTION	AVISO	VARNING	注意	CAUTION
VISIBLE AND/OR INVISIBLE CLASS 1M LASER RADIATION WHEN OPEN. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. IEC60825-1:2001 (ENG)	RAYONNEMENT LASER VISIBLE ET/OU INVISIBLE DE CLASSE 1M UNE FOIS OUVERT. NE PAS REGARDER DIRECTEMENT AVEC DES INSTRUMENTS OPTIQUES. (FRA)	RADIACIÓN LÁSER DE CLASE 1M VISIBLE Y/O INVISIBLE CUANDO ESTÁ ABIERTO. NO MIRAR DIRECTAMENTE CON INSTRUMENTAL ÓPTICO. (ESP)	SYNLIG OCH/ELLER OSYNLIG LASERSTRÅLNING, KLASS 1M, NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN MED OPTISKA INSTRUMENT. (SWE)	ここを開くと可視及び/または不可視のクラス1M レーザー放射が出ます。光学装置で直接見ないでください。 (JPN)	VISIBLE AND/OR INVISIBLE CLASS II LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21 CFR (ENG) LV44603-003A

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Removing the Top cover (See Fig.1)

(1) Remove the three screws **A** attaching the Top cover.

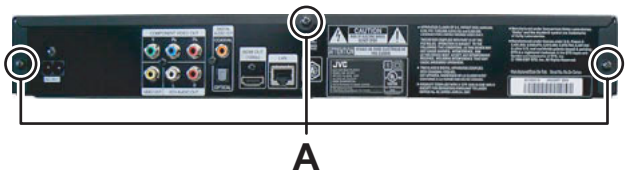


Fig.1

3.1.2 Removing the Front panel (See Fig.2 to 4)

(1) Disconnect the card wire from Front panel connected to connector CN202 of the Main board. (See Fig.2)

(2) Disengage four hooks **a** engaged top side of the Front panel. (See Fig.2)

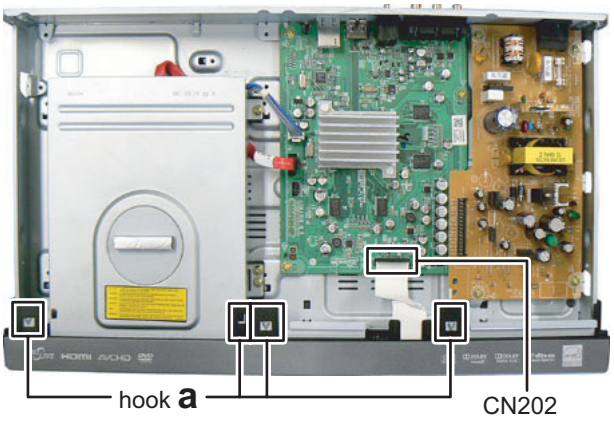


Fig.2

(3) Disengage two hooks **b** engaged both side of the Front panel. (See Fig.3)

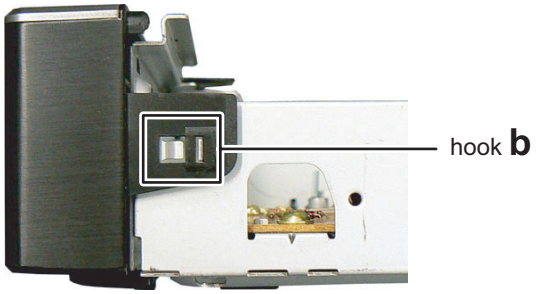


Fig.3

(4) Disengage three hooks **c** engaged bottom side of the Front panel. (See Fig.4)

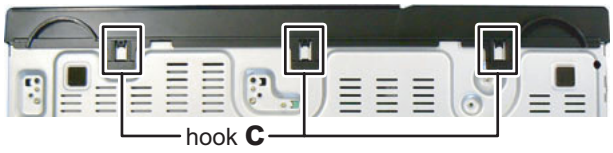


Fig.4

3.2 Removing the Blu-ray drive unit (See Fig.5)

(1) Disconnect the connector wire from Blu-ray drive unit connected to connector CN801 of the Main board.

(2) Disconnect the FFC cable connected to connector CN802 of the Main board.

(3) Remove the four screws **B** attaching the Blu-ray drive unit.

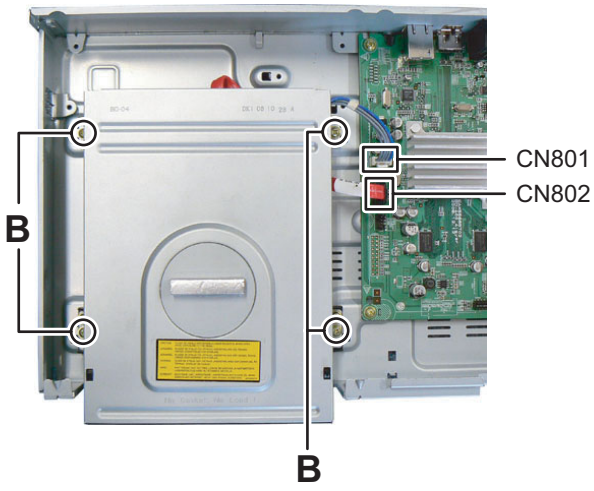


Fig.5

3.3 Removing the SMPS board (See Fig.6, 7)

(1) Remove the one screw **C** attaching the AC jack. (See Fig.6)

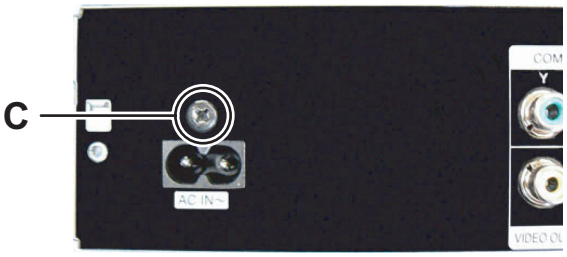


Fig.6

(2) Remove the four screws **D** attaching the SMPS board. (See Fig.7)
(3) Disconnect the B-B connector P101 of the SMPS board from Main board. (See Fig.7)

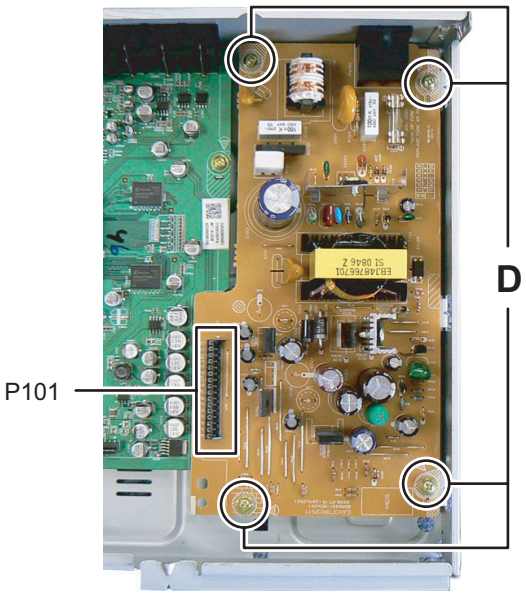


Fig.7

3.4 Removing the Main board (See Fig.8, 9)

(1) Remove the two screws **E** attaching the RCA jacks. (See Fig.8)
(2) Remove the one screw **F** attaching the HDMI jack. (See Fig.8)

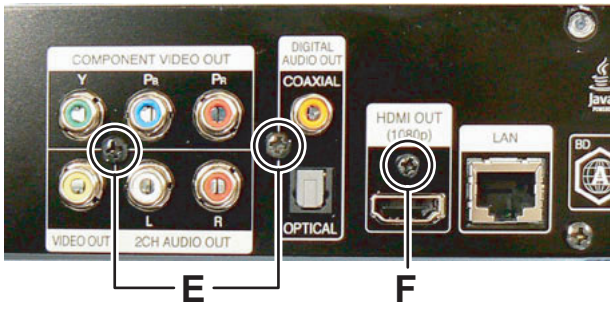


Fig.8

(3) Remove the three screws **G** attaching the Main board. (See Fig.9)

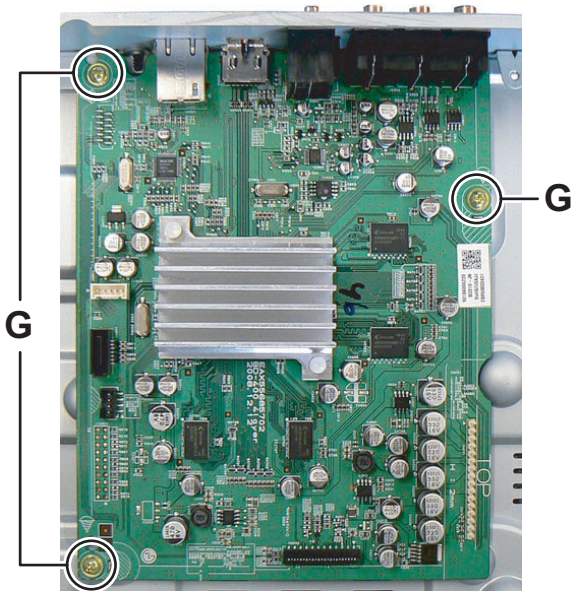


Fig.9

3.5 Removing the Timer board (See Fig.10)

(1) Remove the five screws **H** attaching the Timer board.

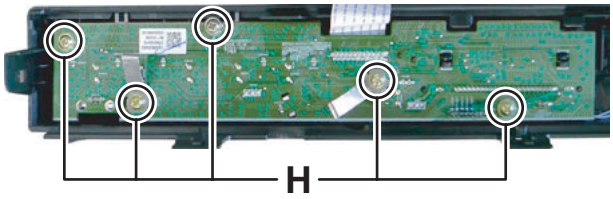


Fig.10

3.6 Removing the Key board (See Fig.11)

(1) Remove the one screw **J** attaching the Key board.

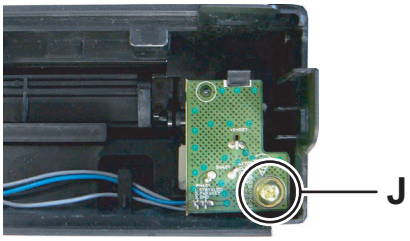


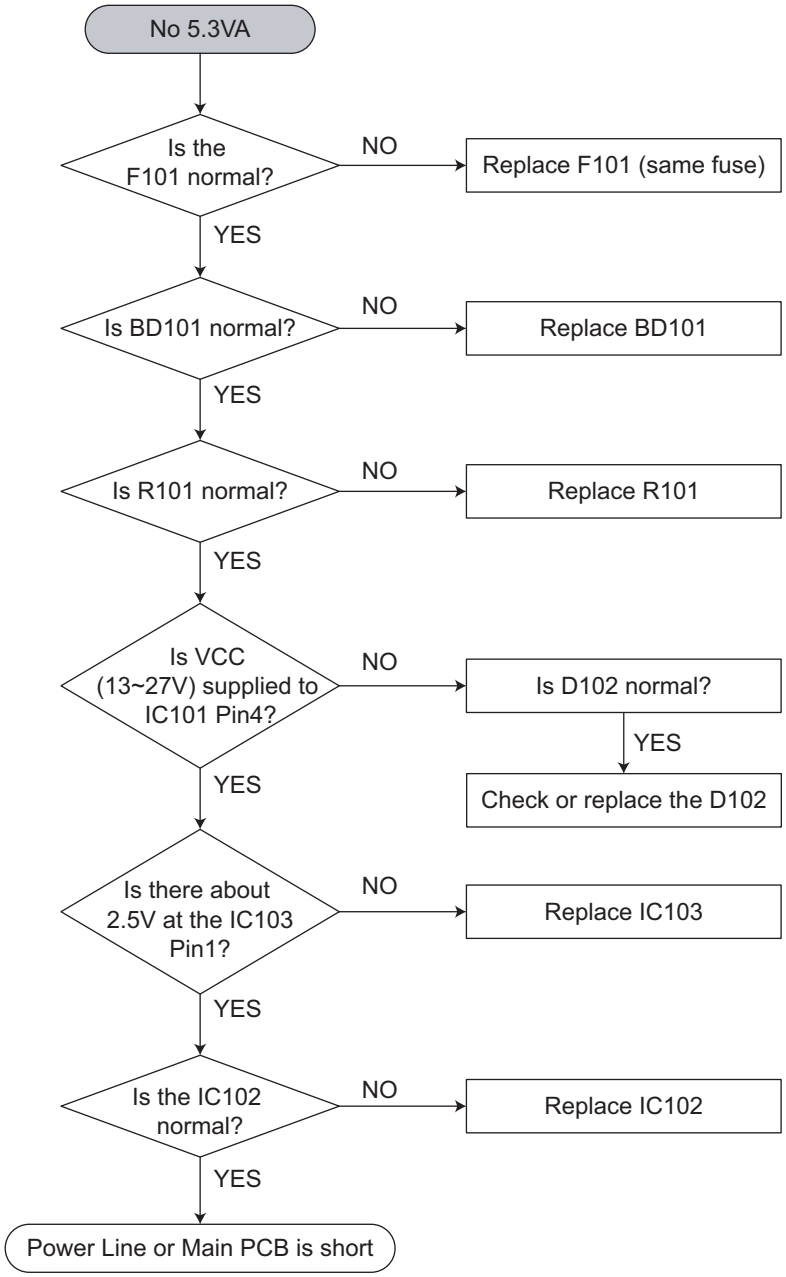
Fig.11

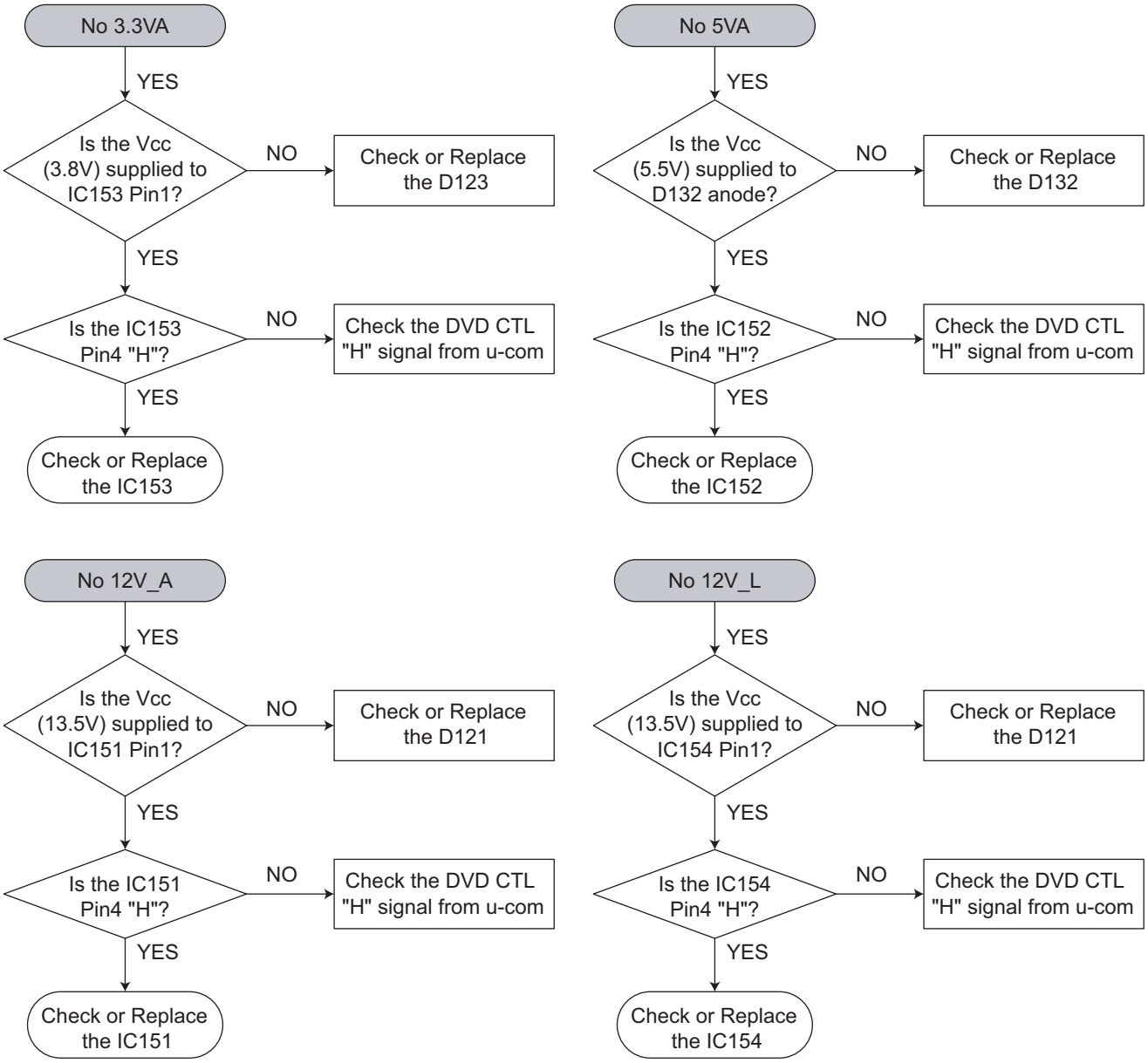
SECTION 4
ADJUSTMENT

This service manual does not describe ADJUSTMENT.

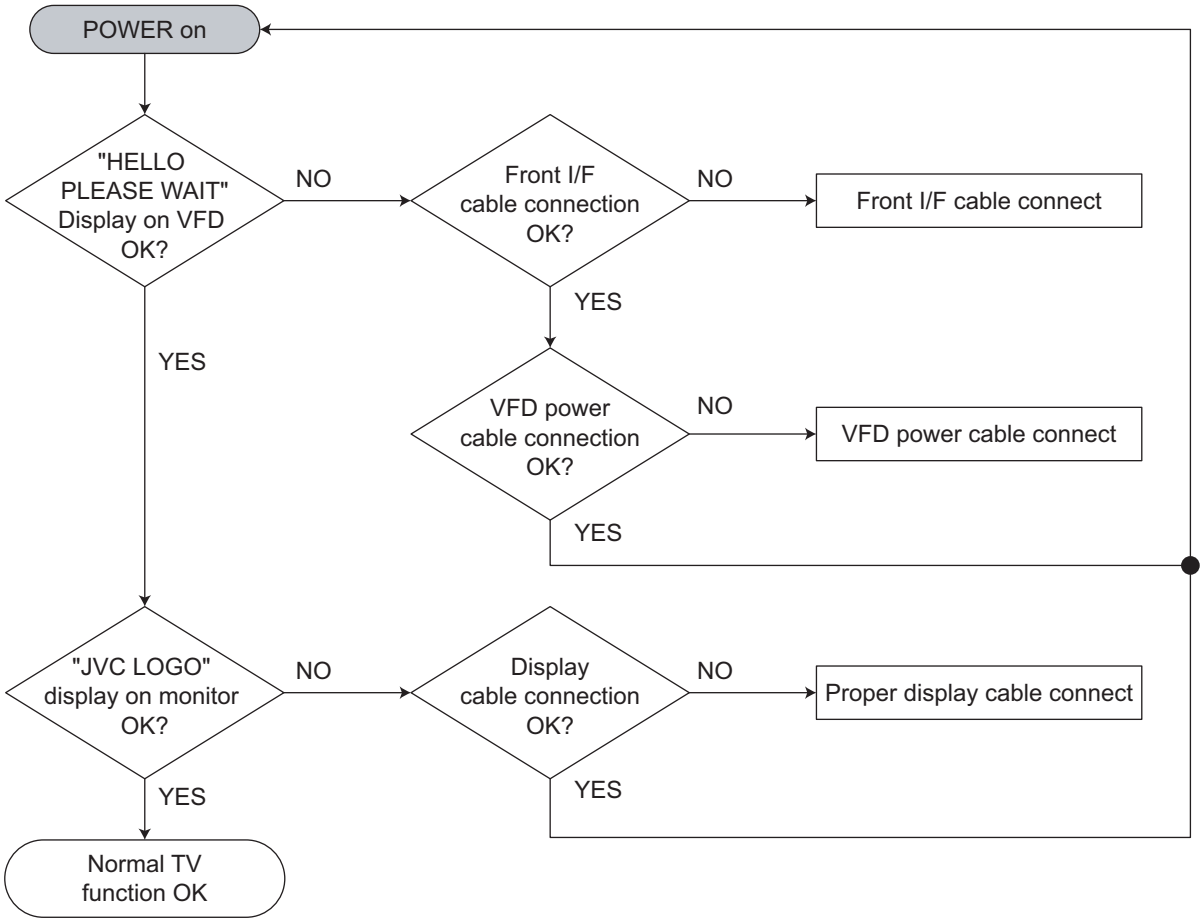
SECTION 5
TROUBLESHOOTING

5.1 Power supply (SMPS)

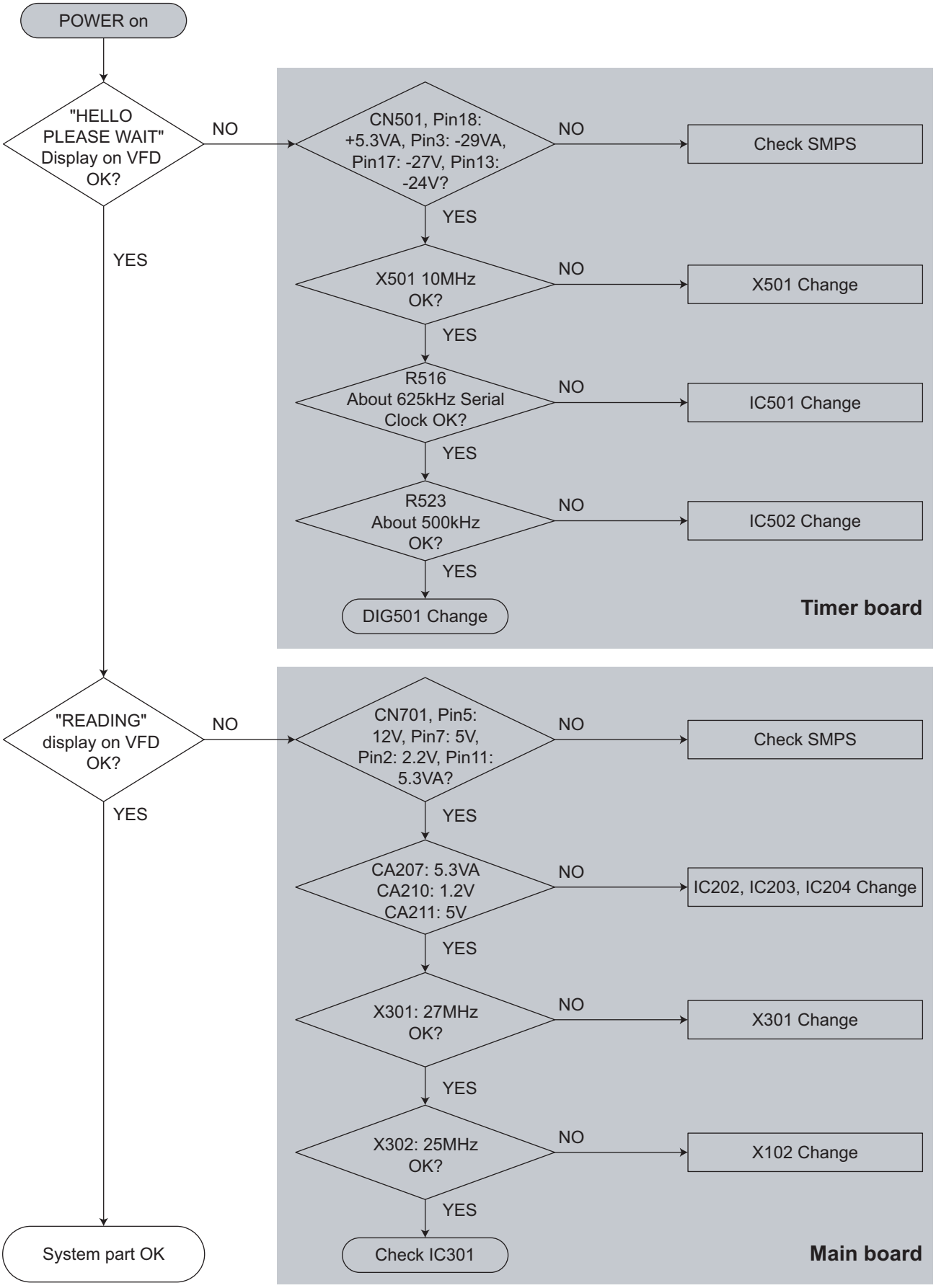



No 3.3VA
YES
Is the Vcc (3.8V) supplied to IC153 Pin1?
NO
Check or Replace the D123
YES
Is the IC153 Pin4 "H"?
NO
Check the DVD CTL "H" signal from u-com
YES
Check or Replace the IC153
No 5VA
YES
Is the Vcc (5.5V) supplied to D132 anode?
NO
Check or Replace the D132
YES
Is the IC152 Pin4 "H"?
NO
Check the DVD CTL "H" signal from u-com
YES
Check or Replace the IC152
No 12V_A
YES
Is the Vcc (13.5V) supplied to IC151 Pin1?
NO
Check or Replace the D121
YES
Is the IC151 Pin4 "H"?
NO
Check the DVD CTL "H" signal from u-com
YES
Check or Replace the IC151
No 12V_L
YES
Is the Vcc (13.5V) supplied to IC154 Pin1?
NO
Check or Replace the D121
YES
Is the IC154 Pin4 "H"?
NO
Check the DVD CTL "H" signal from u-com
YES
Check or Replace the IC154

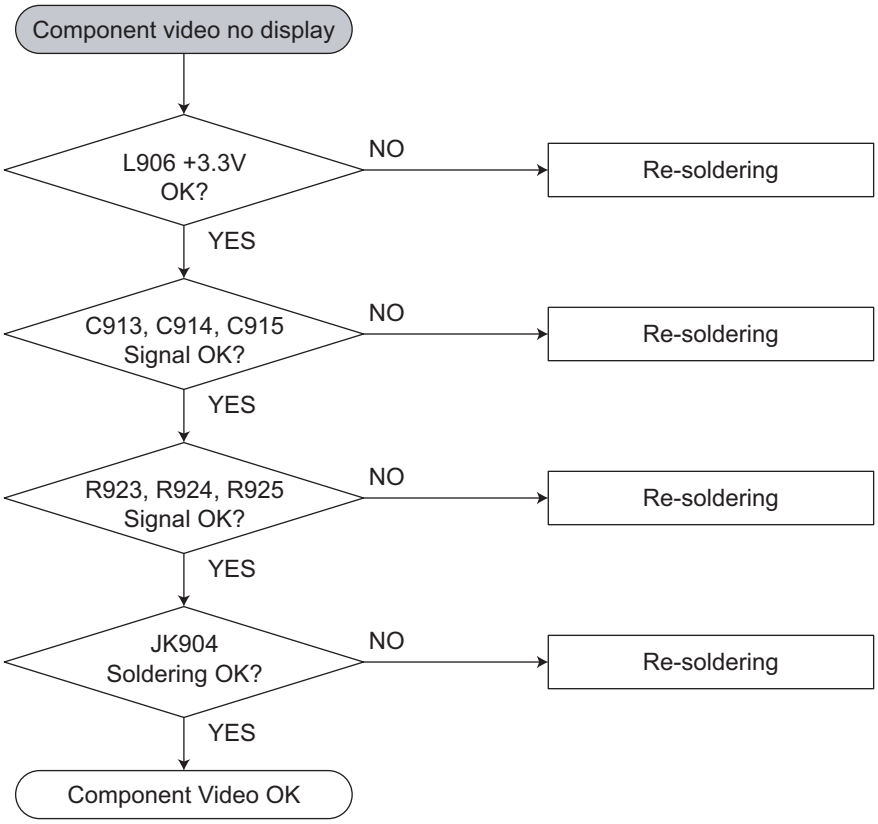
5.2 Power ON


POWER on
"HELLO PLEASE WAIT" Display on VFD OK?
NO
Front I/F cable connection OK?
NO
Front I/F cable connect
YES
YES
VFD power cable connection OK?
NO
VFD power cable connect
YES
"JVC LOGO" display on monitor OK?
NO
Display cable connection OK?
NO
Proper display cable connect
YES
YES
Normal TV function OK

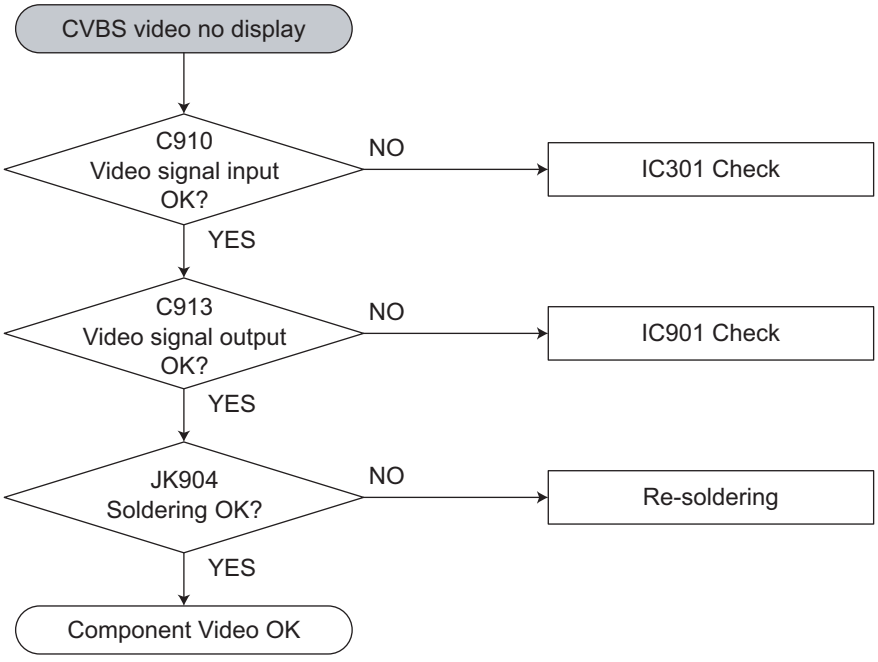
5.3 SYSTEM PART



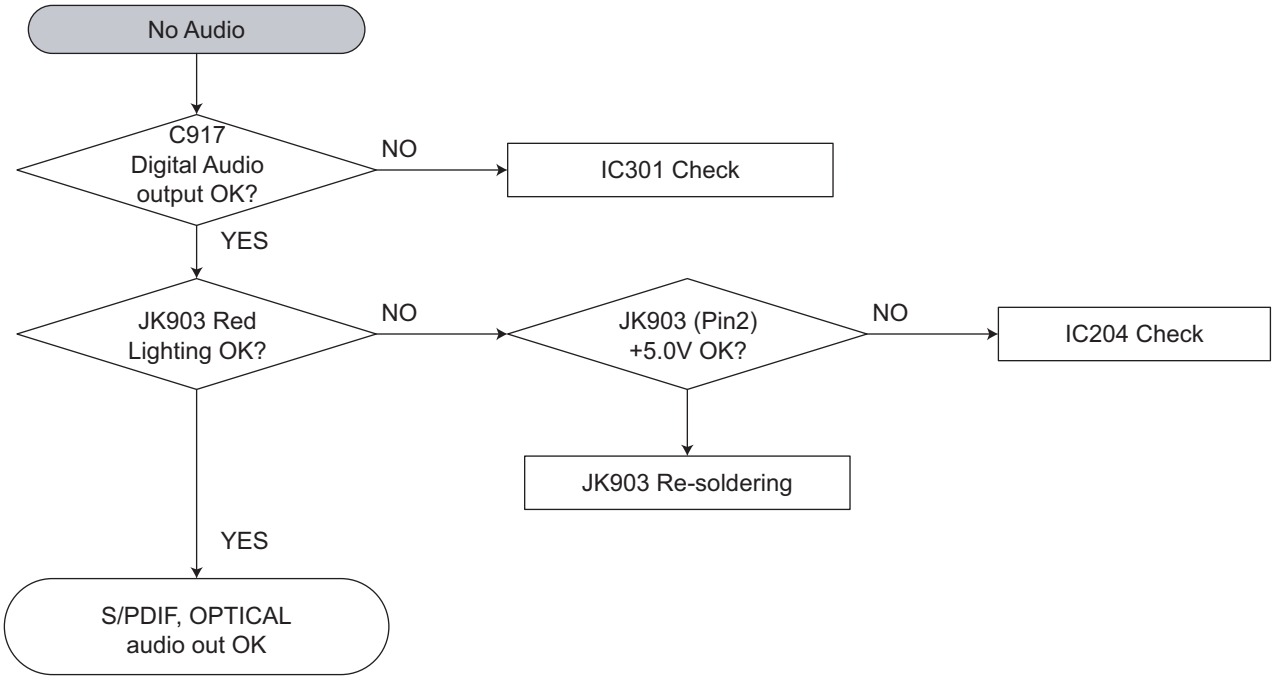
5.4 COMPONENT (Y,Pb,Pr) VIDEO OUT



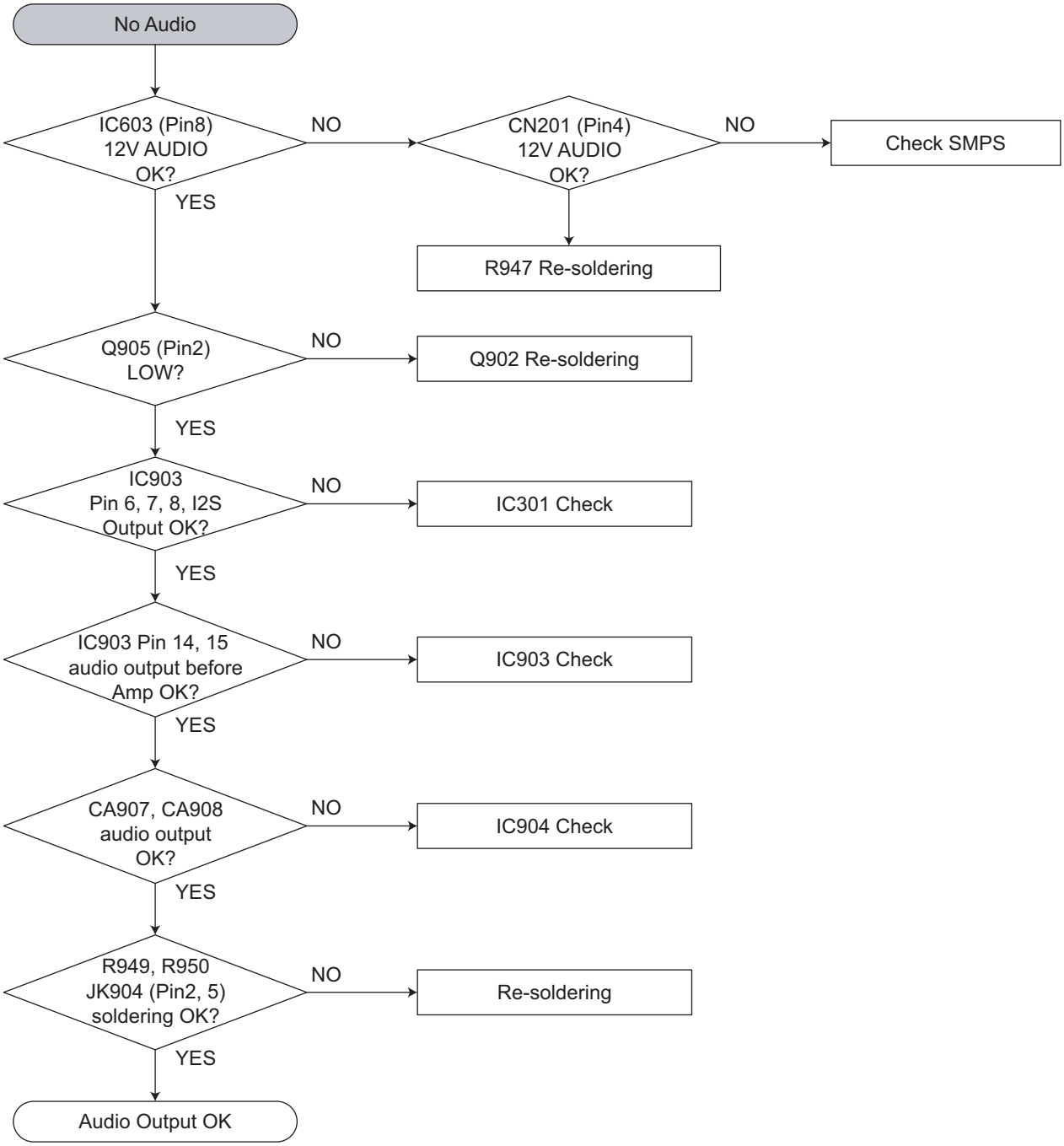
5.5 CVBS VIDEO OUT



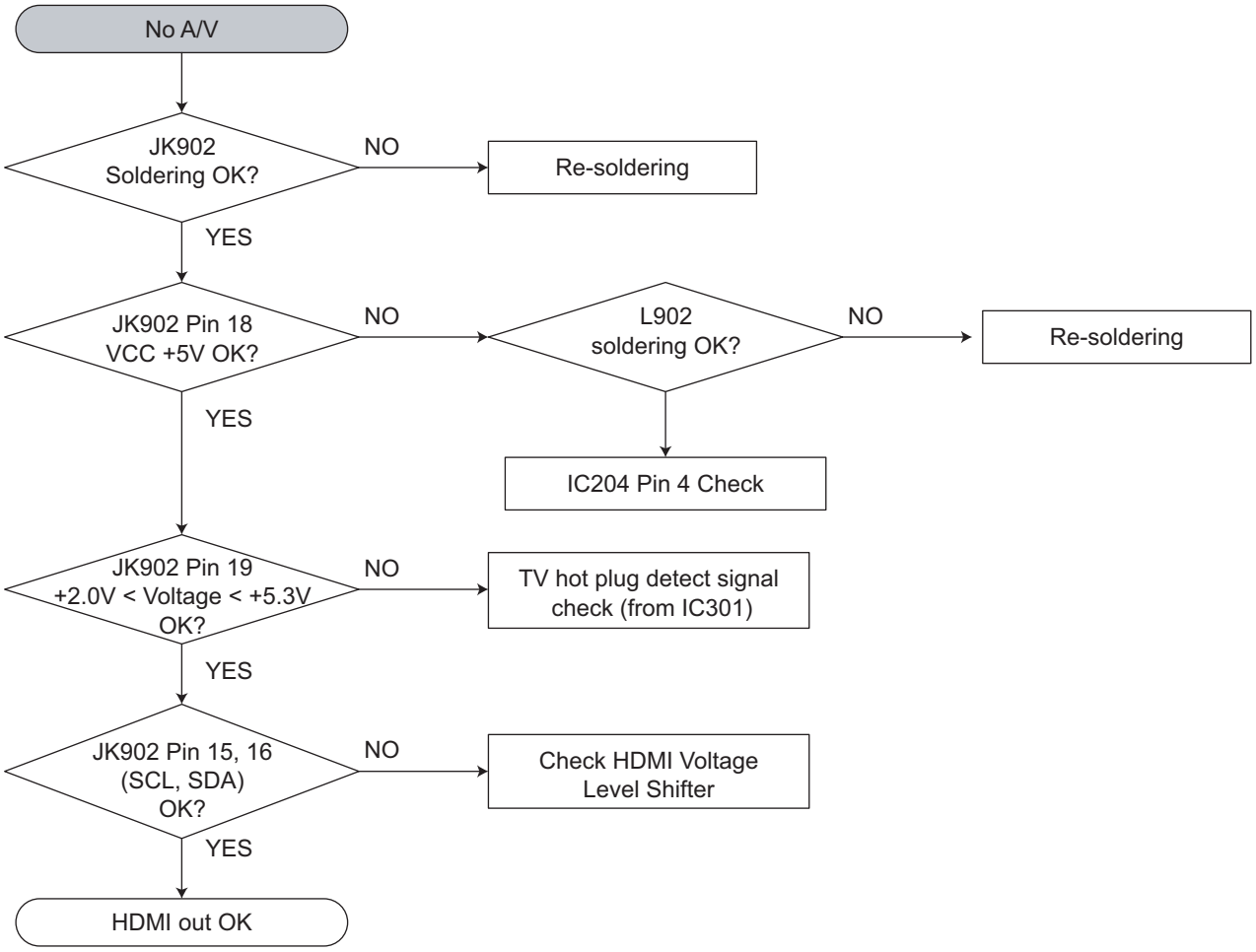
5.6 AUDIO (S/PDIF, OPTICAL)



5.7 AUDIO (ANALOG)



5.8 HDMI


No A/V
JK902 Soldering OK?
NO
Re-soldering
YES
JK902 Pin 18 VCC +5V OK?
NO
L902 soldering OK?
NO
Re-soldering
YES
IC204 Pin 4 Check
JK902 Pin 19 +2.0V < Voltage < +5.3V OK?
NO
TV hot plug detect signal check (from IC301)
YES
JK902 Pin 15, 16 (SCL, SDA) OK?
NO
Check HDMI Voltage Level Shifter
YES
HDMI out OK

JVC

Victor Company of Japan, Limited
Audio/Video Systems Division 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB706<Rev.002>)

Printed in Japan
VSE

JVC

SCHEMATIC DIAGRAMS

Blu-ray Disc Player

XV-BP1J,XV-BP1C,XV-BP1B, XV-BP1E,XV-BP1EN,XV-BP1EV, XV-BP1EE,XV-BP1US,XV-BP1UX, XV-BP1UJ

DVD-ROM No.SML2009Q1

(Except J,C,UJ)

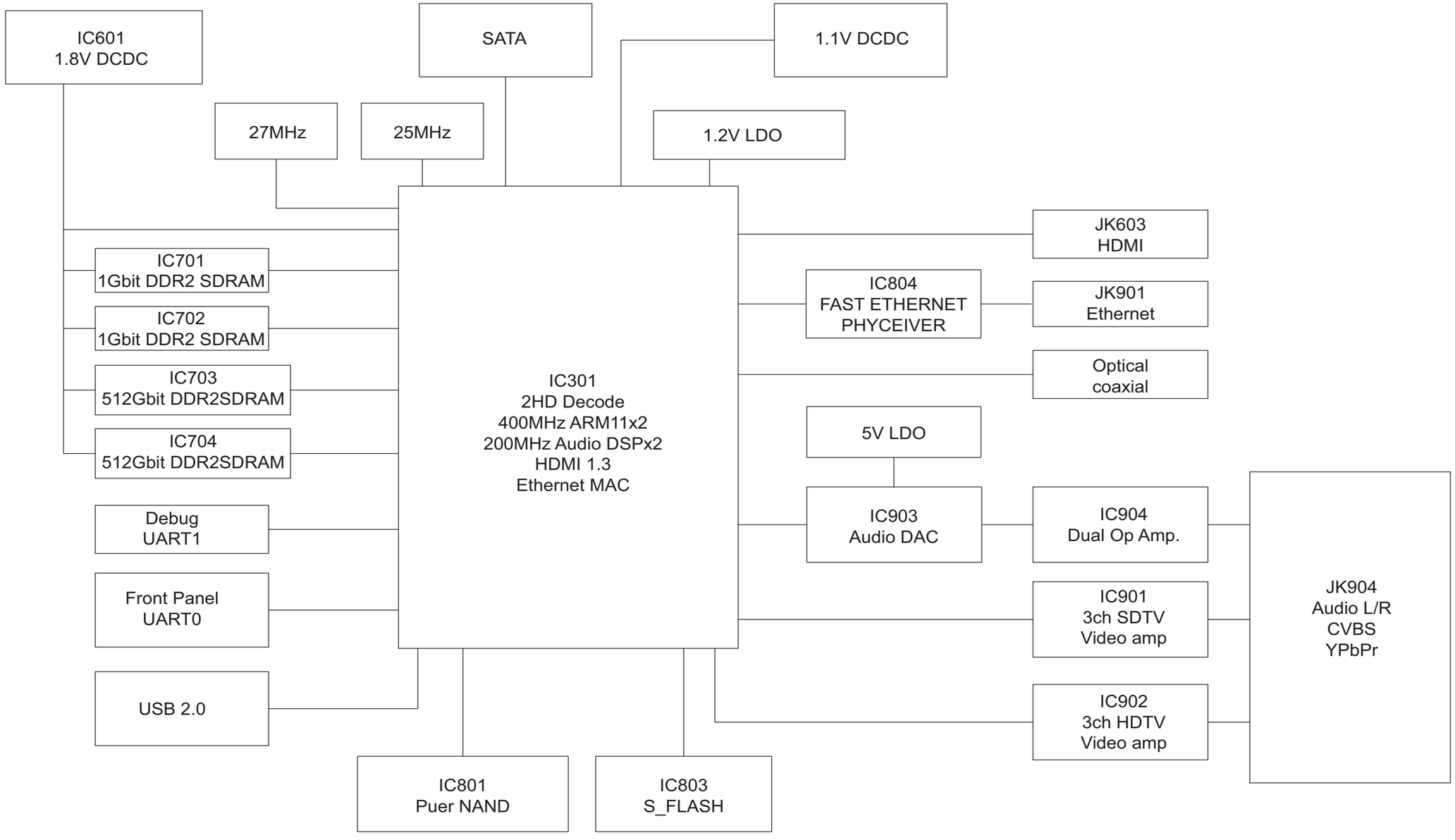
Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade)

Contents

No.MB706SCH<Rev.002>
2009/7

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

■ SMPS CIRCUIT DIAGRAM

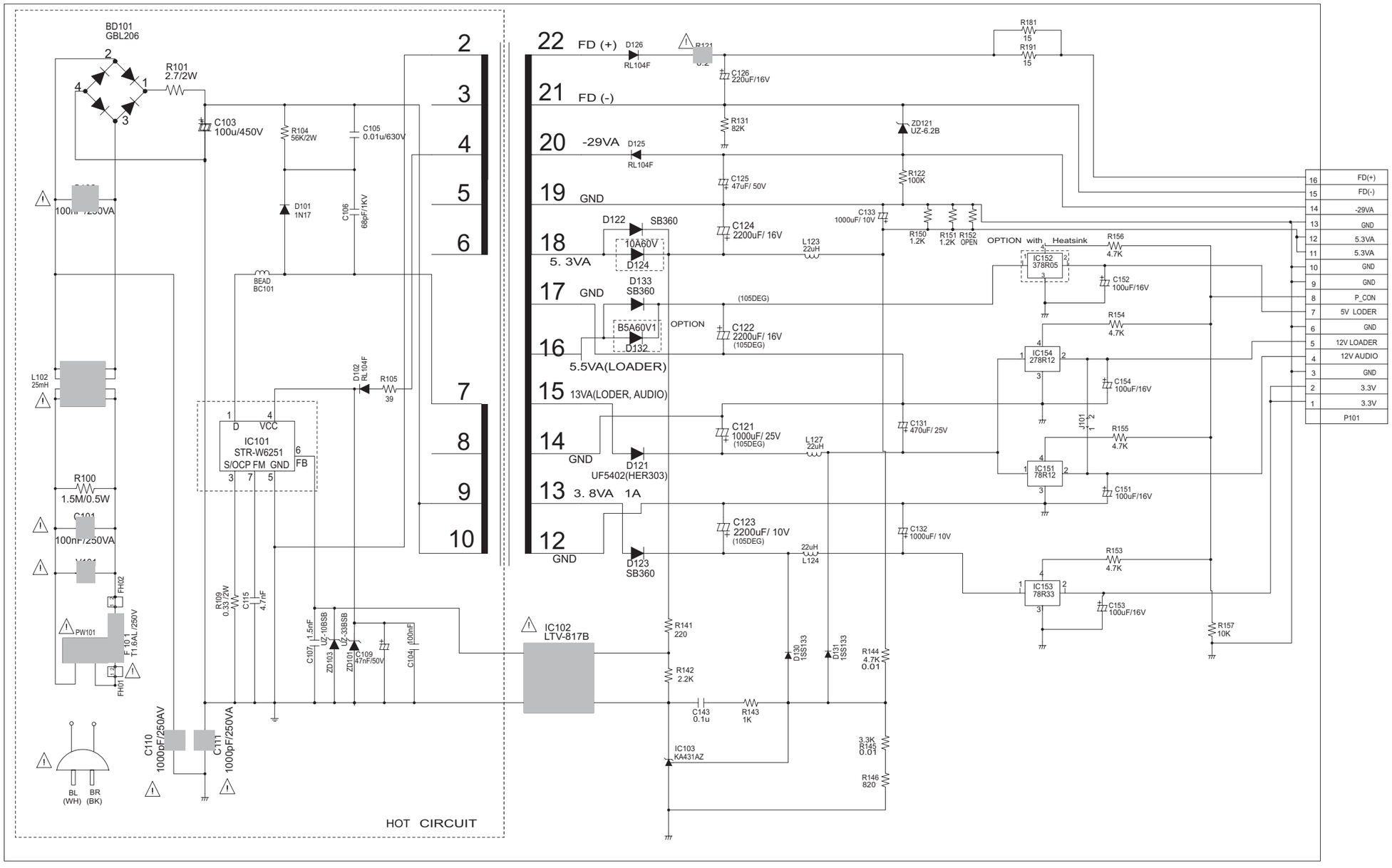
IMPORTANT SAFETY

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE JVC. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION. THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENT ATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

NOTE:

1. Shaded(■) psrts are critical for safety. Replace only with specified part number
2. Voltages are DC-measured with a digital voltmeter during Play mode.

T101EER3530



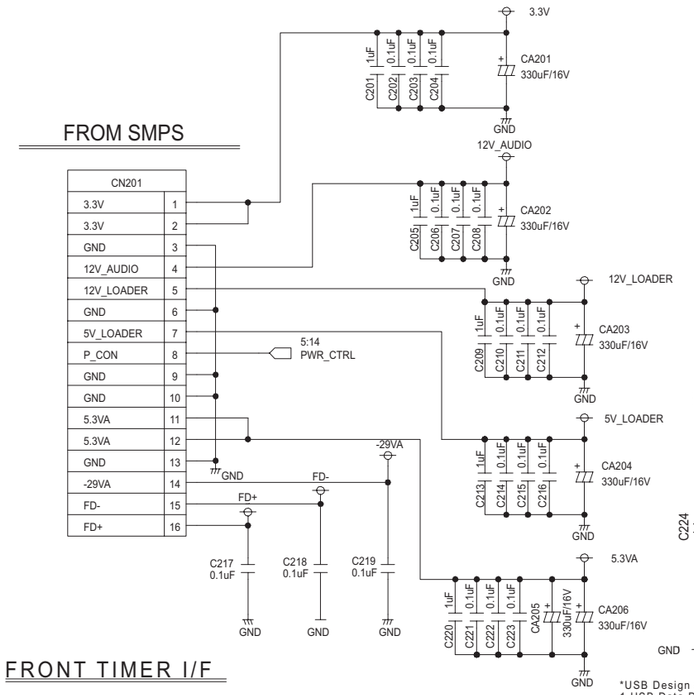
	C103
120V	150uF/250V
110～240V	100uF/450V

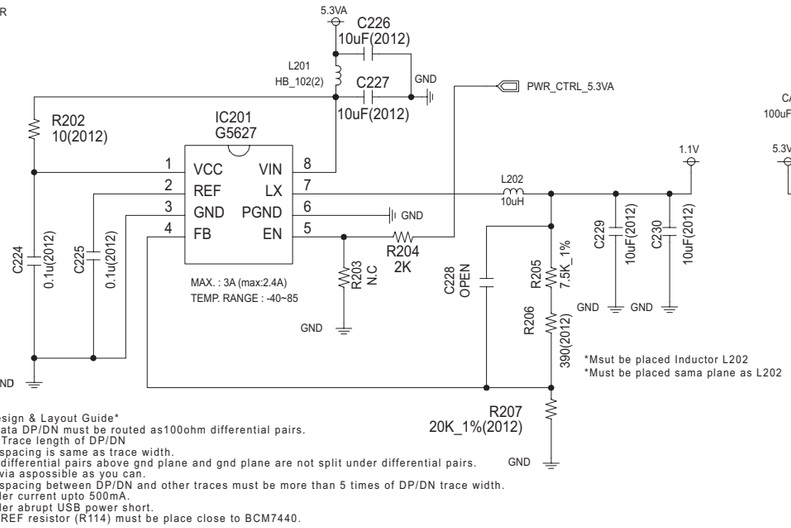
	L102	D132	D124	D122	D133	C122	IC152	IC151	J101	ZD121
BD300	04150ST	5A60V1 (H/S)	10A60 (H/S)	X	X	2200uF	378B05 (H/S)	78R12	X	6.2B
BD400	145E (145L) (145G)	X	X	SB360	SB360	1000uF	278R05	X	0	2.7B

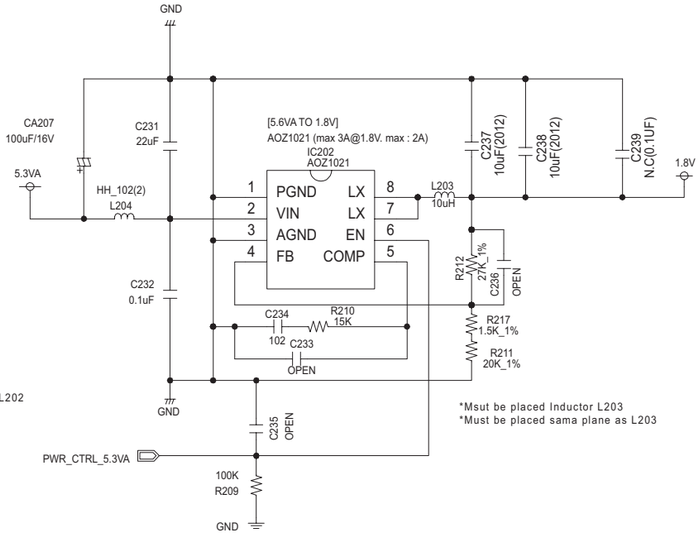
NOTES) ⏚ Symbol denotes AC ground.
⏚ Symbol denotes DC chassis ground.

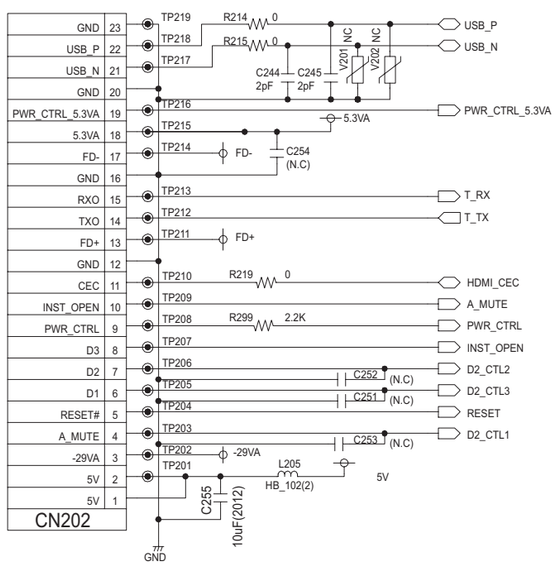
NOTES) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electrical shock.

■ POWER/TIMER/USB CIRCUIT DIAGRAM

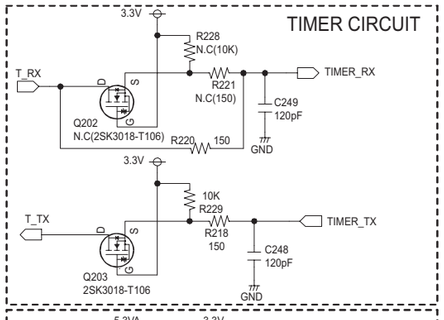


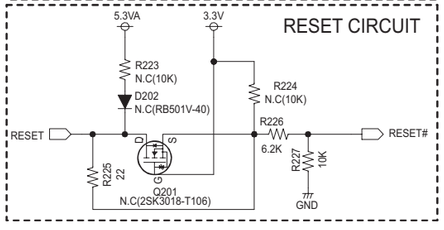


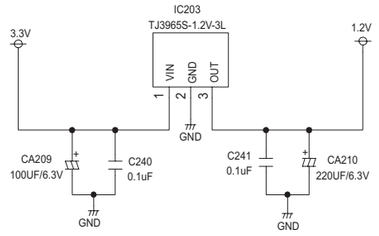


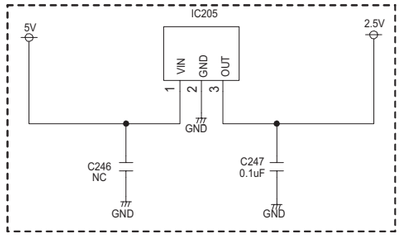


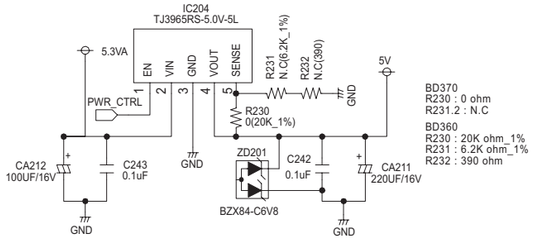
USB Design & Layout Guide
1.USB Data DP/DN must be routed as100ohm differential pairs.
2.Match Trace length of DP/DN
3.Trace spacing is same as trace width.
4.Route differential pairs above gnd plane and gnd plane are not split under differential pairs.
5.Avoid via aspossible as you can.
6.Trace spacing between DP/DN and other traces must be more than 5 times of DP/DN trace width.
7.Consider current upto 500mA.
8.Consider abrupt USB power short.
9.USB RREF resistor (R114) must be place close to BCM7440.





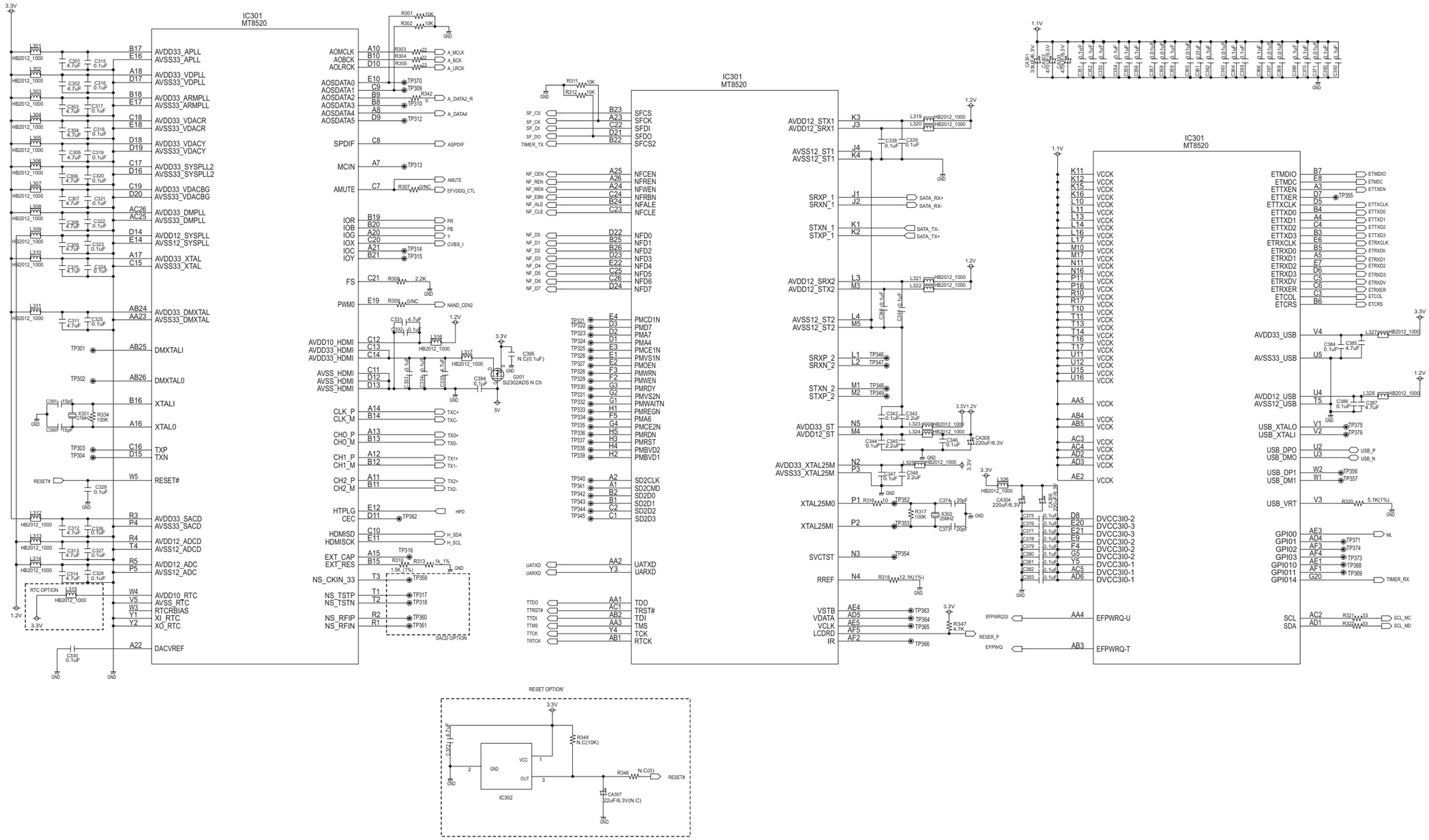




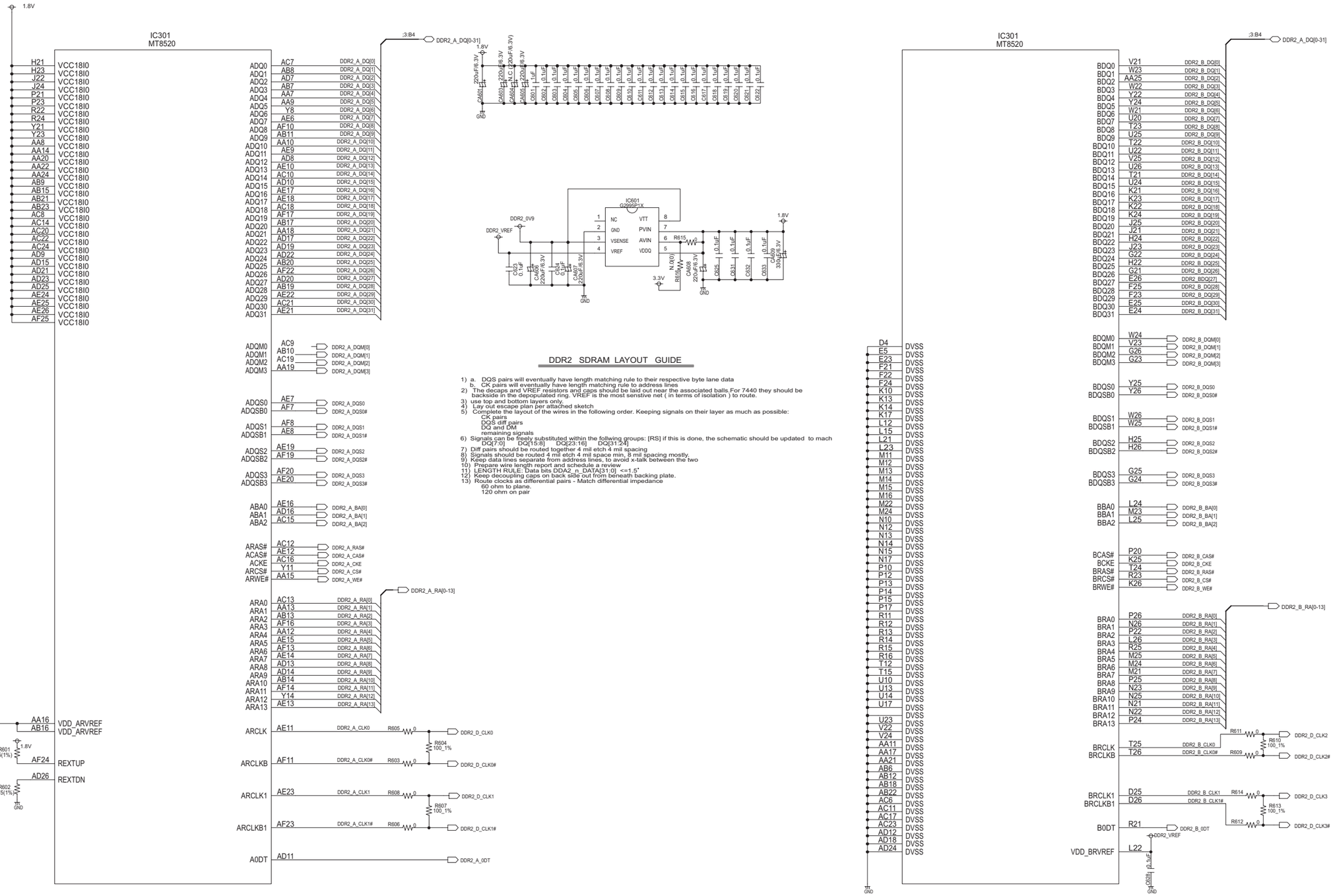


OPTION (EFUSE CIRCUIT)

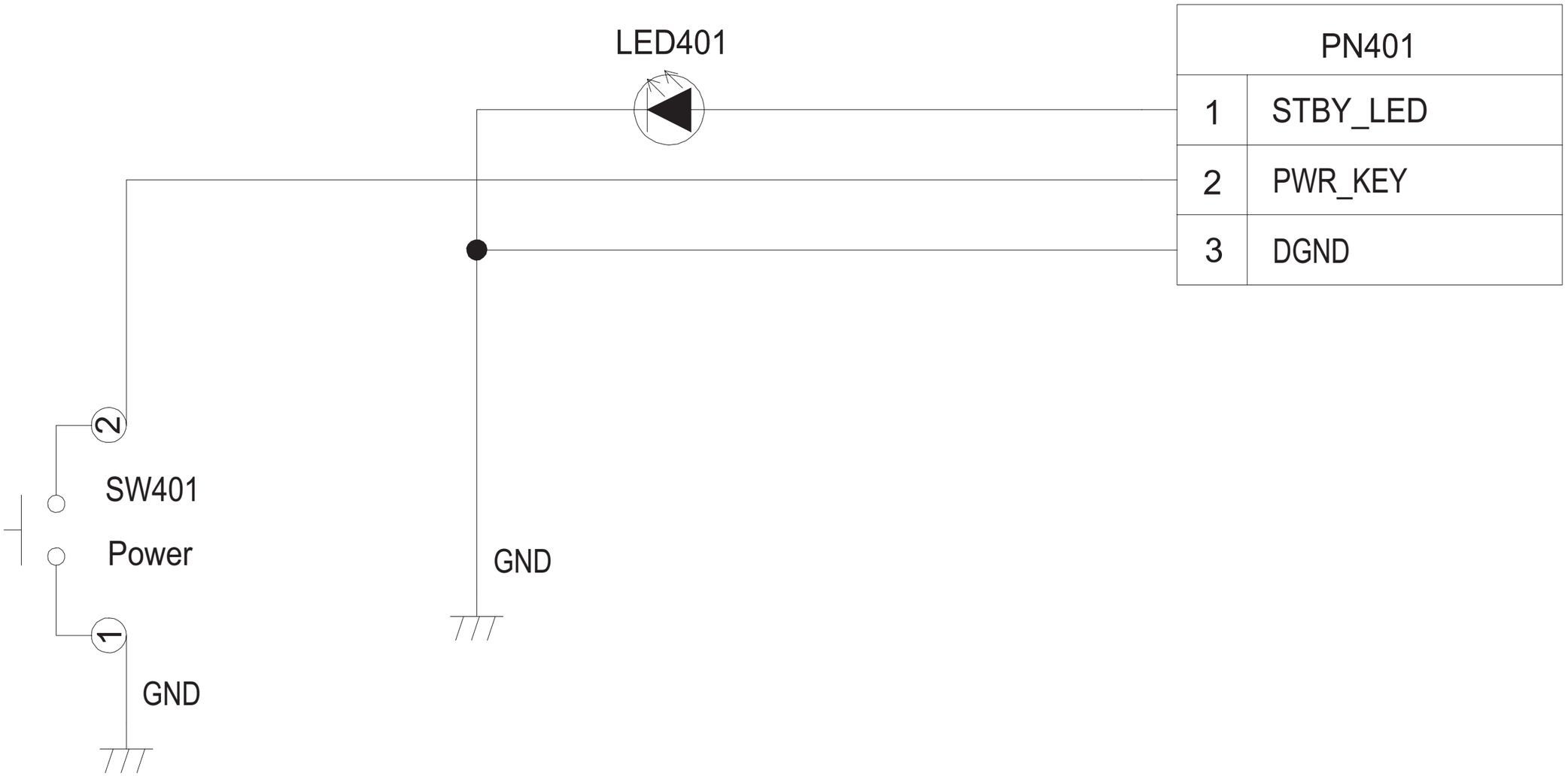
■ MPEG4-1 CIRCUIT DIAGRAM



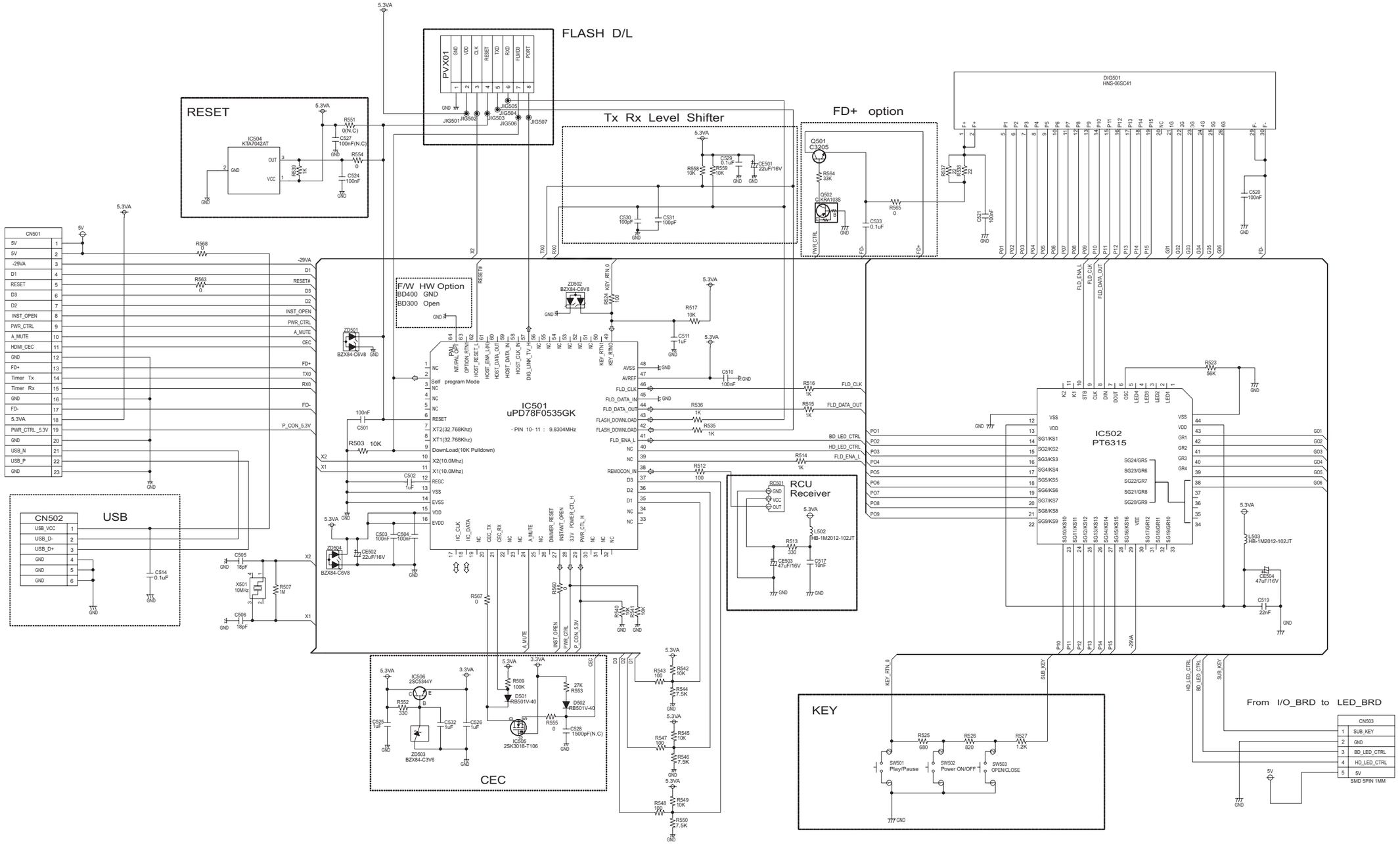
■ MPEG4-2 CIRCUIT DIAGRAM



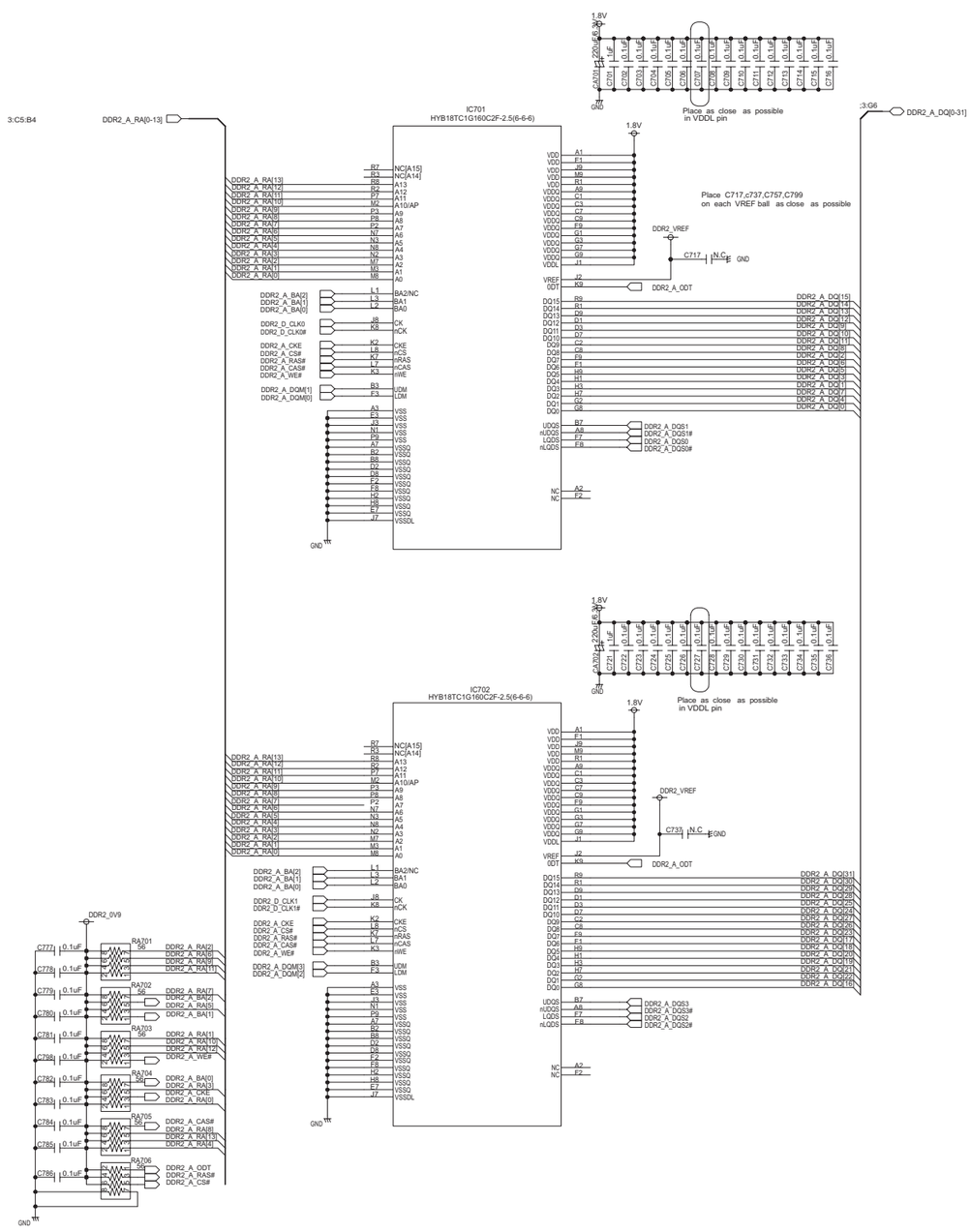
■ KEY CIRCUIT DIAGRAM

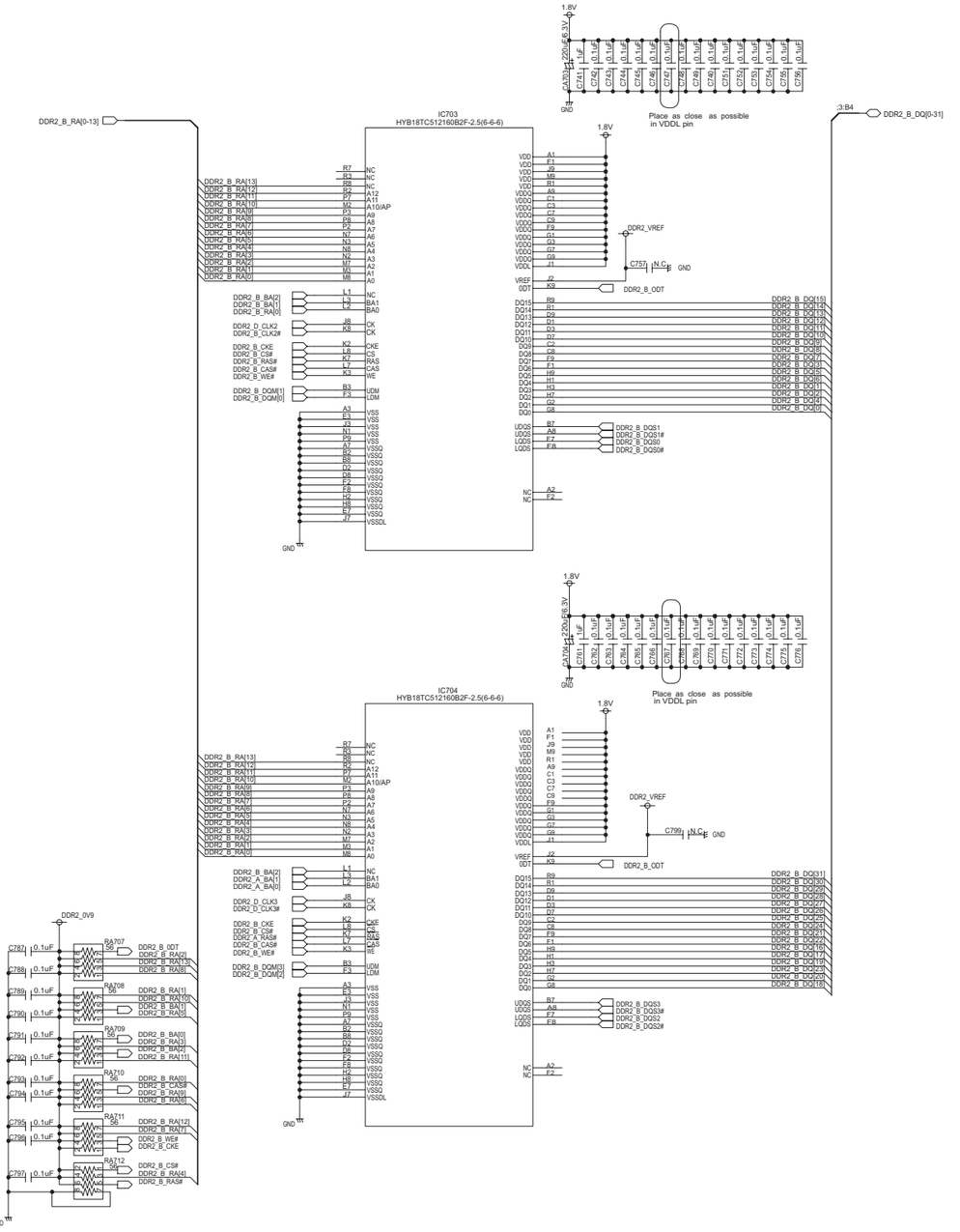


■ TIMER CIRCUIT DIAGRAM



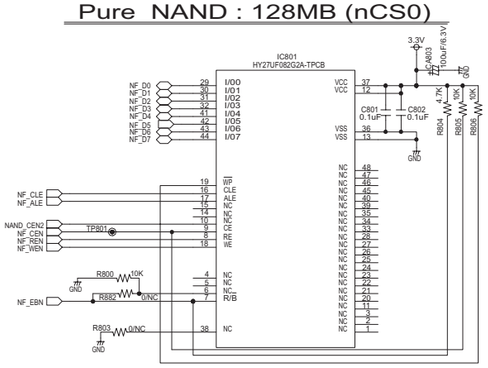
■ DDR2-SDRAM CIRCUIT DIAGRAM



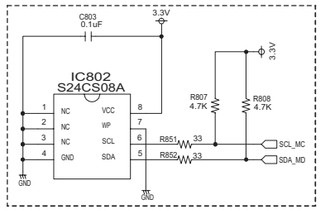


■ NAND/FLASH/ETHERNET CIRCUIT DIAGRAM

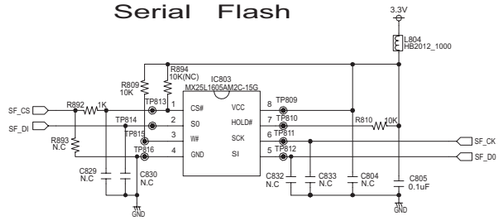
Pure NAND : 128MB (nCS0)



EEPROM OPTION

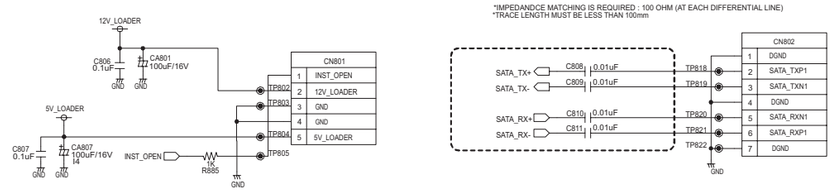


Serial Flash



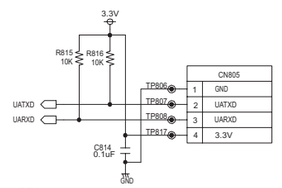
SATA Design & Layout Guide
1.SATA Data DP/DN must be routed as 100ohm differential pairs.
2.Match Trace length of DP/DN
3.Trace spacing is same as trace width.
4.Route differential pairs avobe gnd plane and gnd plane are not split under differential pairs.
5. Avoid via aspossible as you can.
6. Teace spacing between Dp/DN and other trades must be more than 5 times of DP/DN trase width.
7. SATA Xstal(X102) must be plane close to BCM7440.
8. Trace Length must be less than 100mm.
9. Place ac-coupling capacitor(C405,411,402,419) close to connector

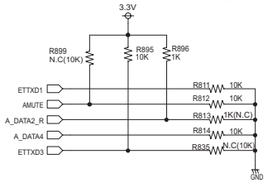
LODER SATA INTERFACE



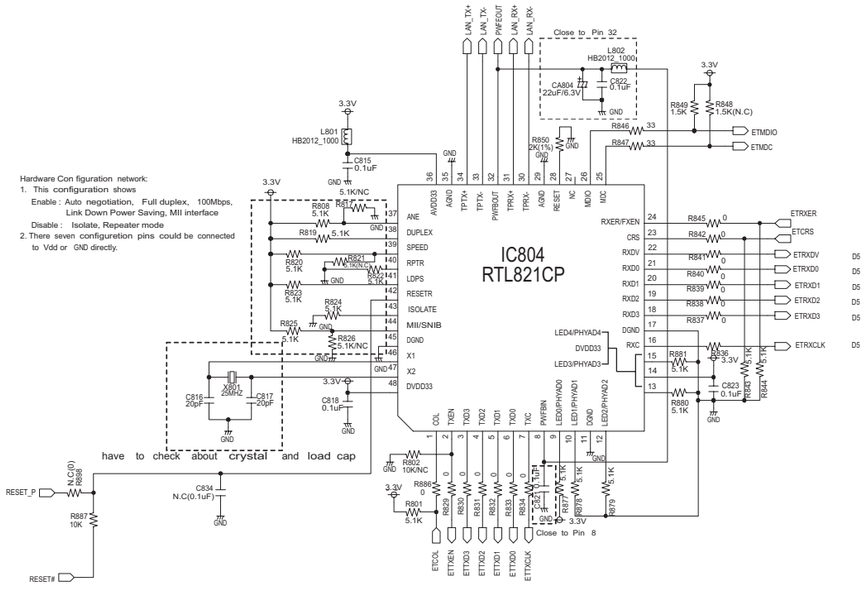
*IMPEDANDCE MATCHING IS REQUIRED : 100 OHM (AT EACH DIFFERENTIAL LINE)
*TRACE LENGTH MUST BE LESS THAN 100mm

RS232 Ports

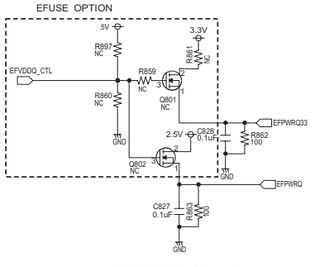




ETTXD1 : 0=>Default, 1=>2nd RISC ICE enable
AMUTE : 0=>Default, 1=>Main RISC ICE enable
A_DATA_R: 0=>DRAM Boot, 1=>FLASH Boot
A_DATA4 : 0=>Default, 1=>RTC Strapping
ETTXD3 : 0=>Default, 1=>SLC,MLC

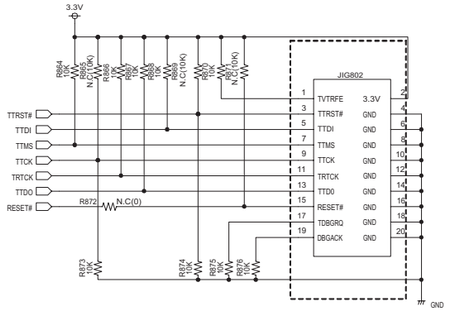


EFUSE Circuit



JIG Connector

Have to find this connector.



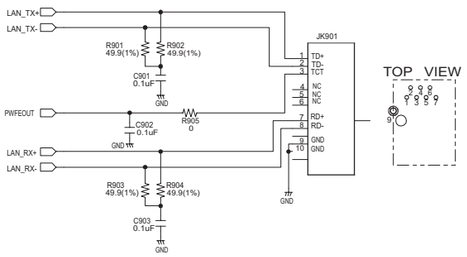
AV/HDMI CIRCUIT DIAGRAM

*IMPEDANCE MATCH ING IS REQUIRED : 100 OHM (AT EACH DIFFERENTIAL LINE)

Ethernet Design & Layout Guide
1.Eth Data DP/DN must be routed as 100ohm differential pairs.
2.Match Trace length of DP/DN
3.Trace spacing is same as trace width.
4.Route differential pairs above gnd plane and gnd plane are not split under differential pairs.
5.Avoid via aspossible as you can.
6.Trace spacing between DP/DN and other trances must be more than 5 times of DP/DN trace width.
7. EPHY_RDAC resistor(R102) must be place close to BCM7440.

ETHERNET

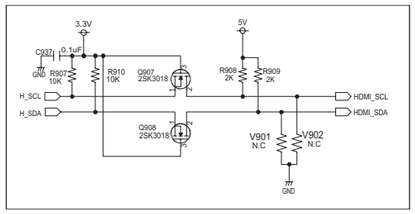
Jk901(RD1-105BAG1A)
involved transmitter filter & Receiver filterEthernet Jack Module



At each differential pair
trace impedance must be
100 ohm.

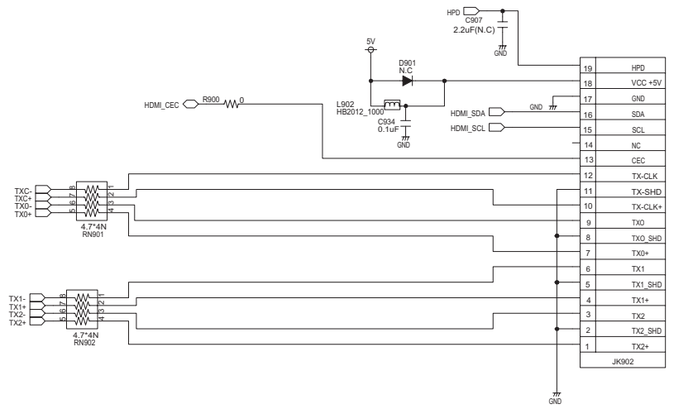
HDMI Design & Layout Guide
1.HDMI differential pair signals must be routed as 100ohm differential pairs.
2.Match Trace length of differential pairs.
3.Trace spacing is same as trace width within pair signals.
4.Route differential pairs above gnd plane and gnd plane are not split under differential pairs.
5.Avoid via aspossible as you can.
6.Trace spacing between DP/DN and other trances must be more than 5 times of DP/DN trace width.
7. Trace Length must be less than 100mm.

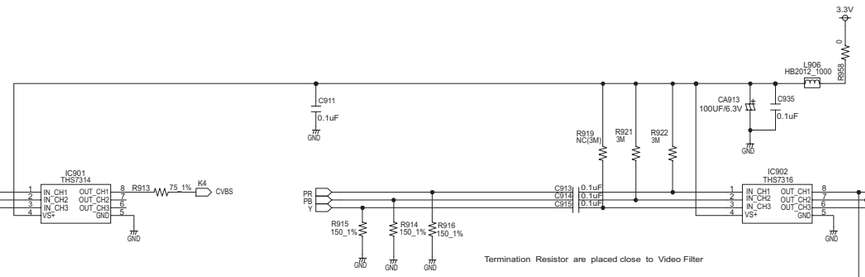
HDMI Level Shifter



Place R908,R909 and C686 on the top of PCB
Maximum capacitance of DDC line is 50pF.
Maximum CEC line leakage current in off (unpowered) state : 1.8uA

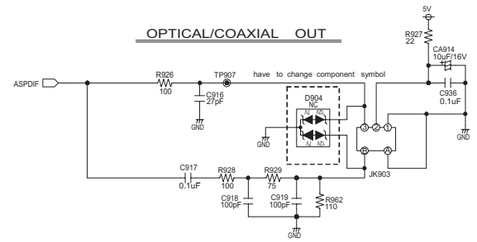
HDMI





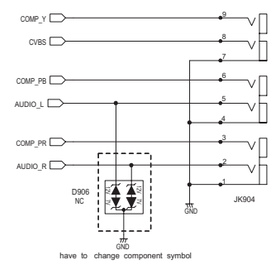
Termination Resistor are placed close to Video Filter

OPTICAL/COAXIAL OUT

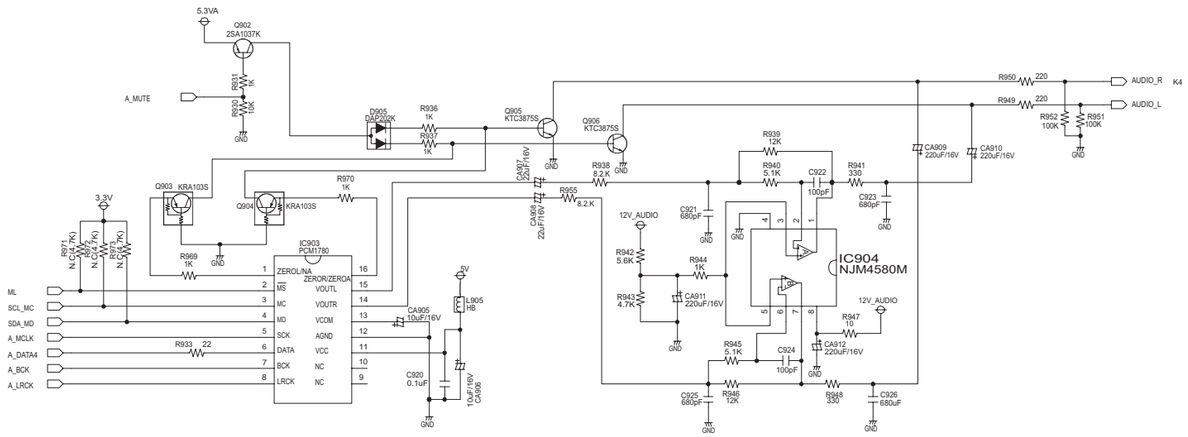


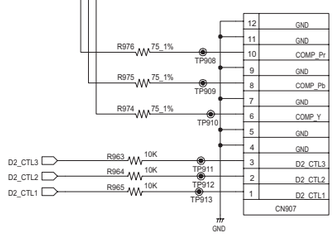
Audio & Video Singnal Layout Guide
1. Component & CVBS signal traces must be routed using signal to signal spacing is more than 0.25mm.
2. Place R101,R107,VDAC_BIAS resistors close to 7440
3. Audio clock signals are might be needed damping resistors and damping resistors are placed close to 7440 .SCK,BCK,LRCK

COMPONENT, CVBS , 2CH AUDIO



have to change component symbol

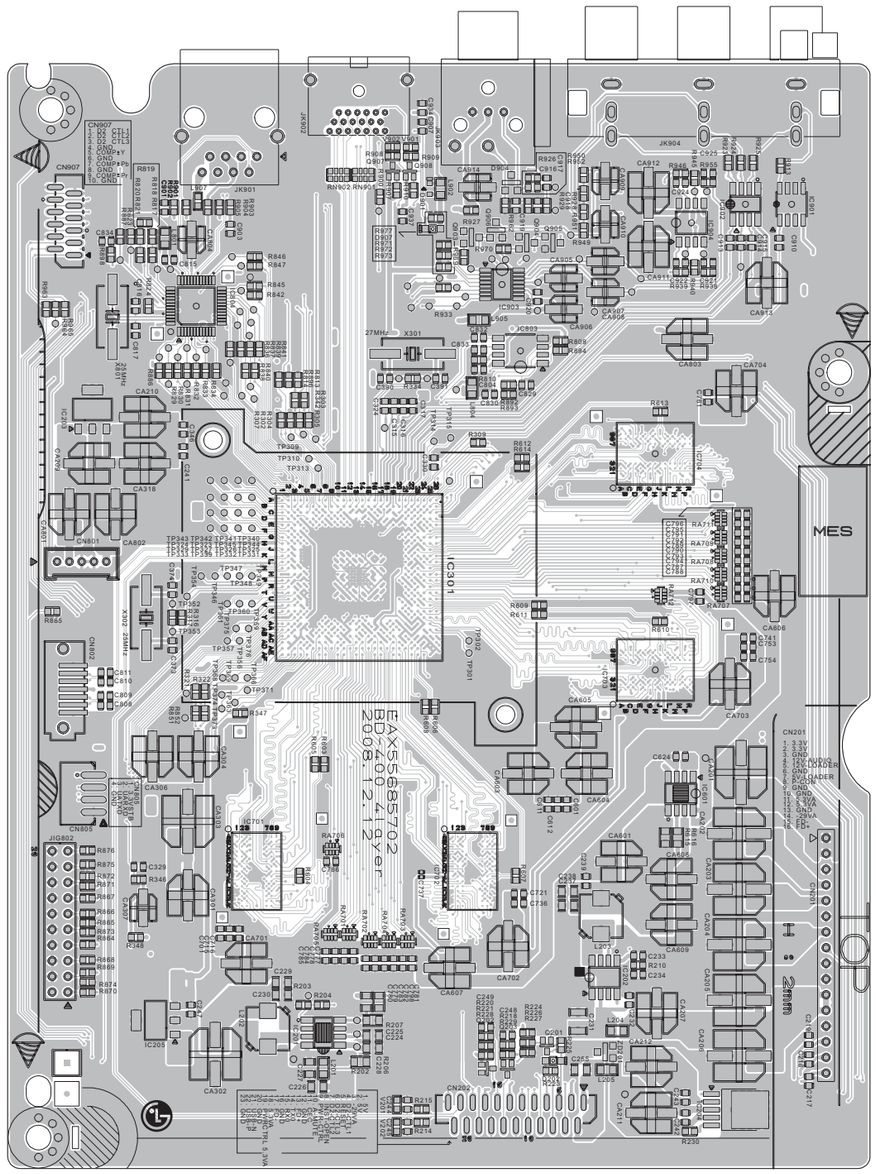




Printed circuit boards

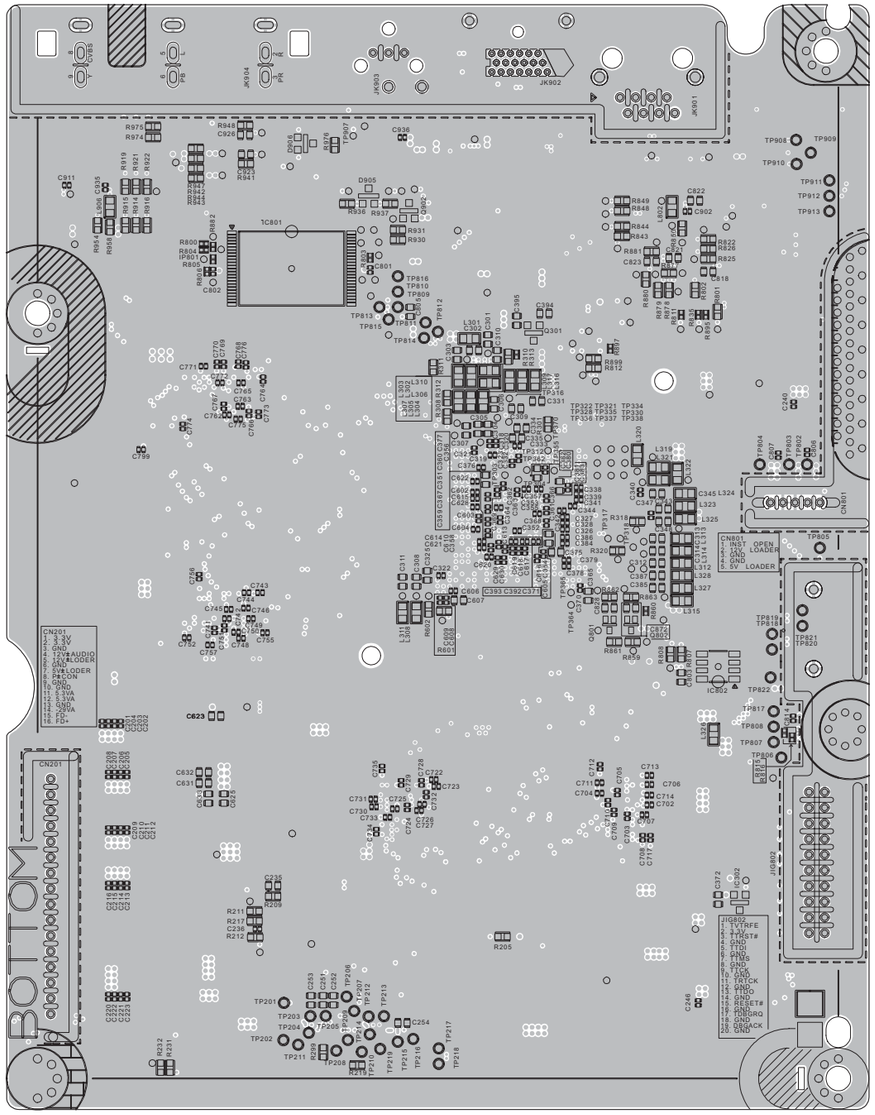
■ Main board (forward side)

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



■ Main board (reverse side)

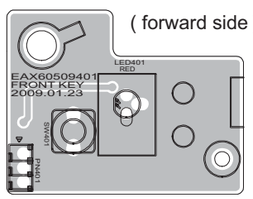
(Lead free solder used in the board (material : Sn-Ag-Cu, melting point : 219 Centigrade))



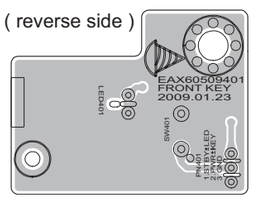
■ Key board

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

(forward side)

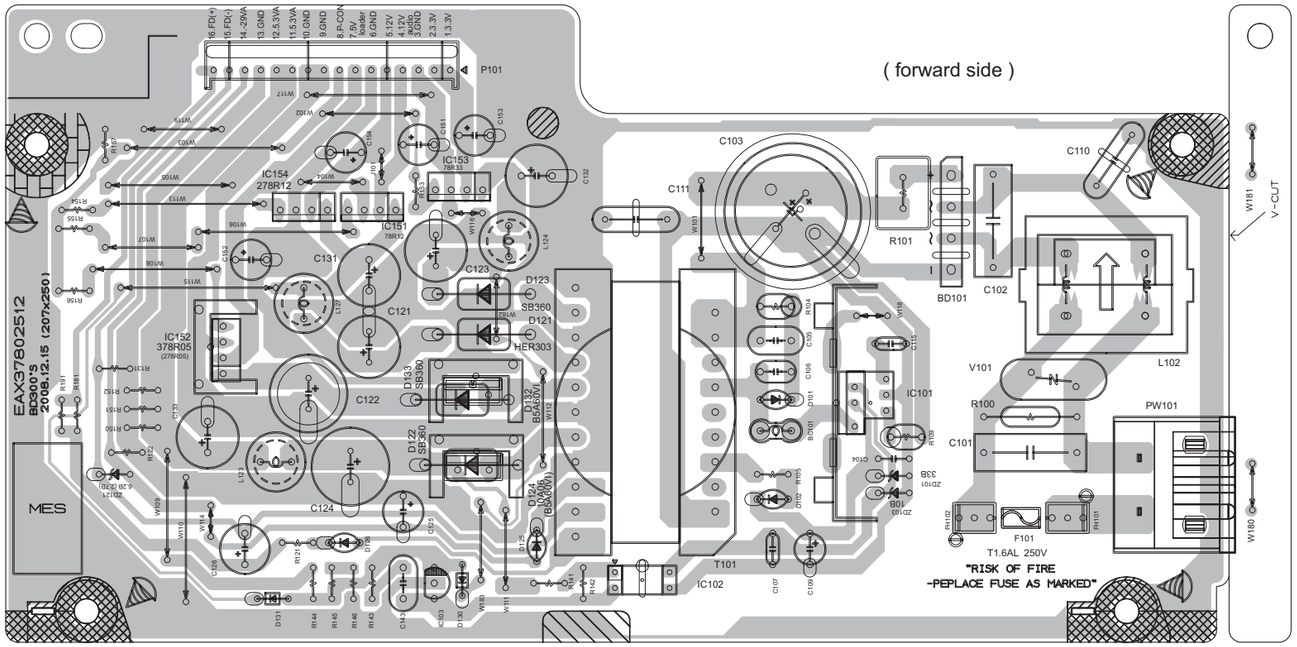


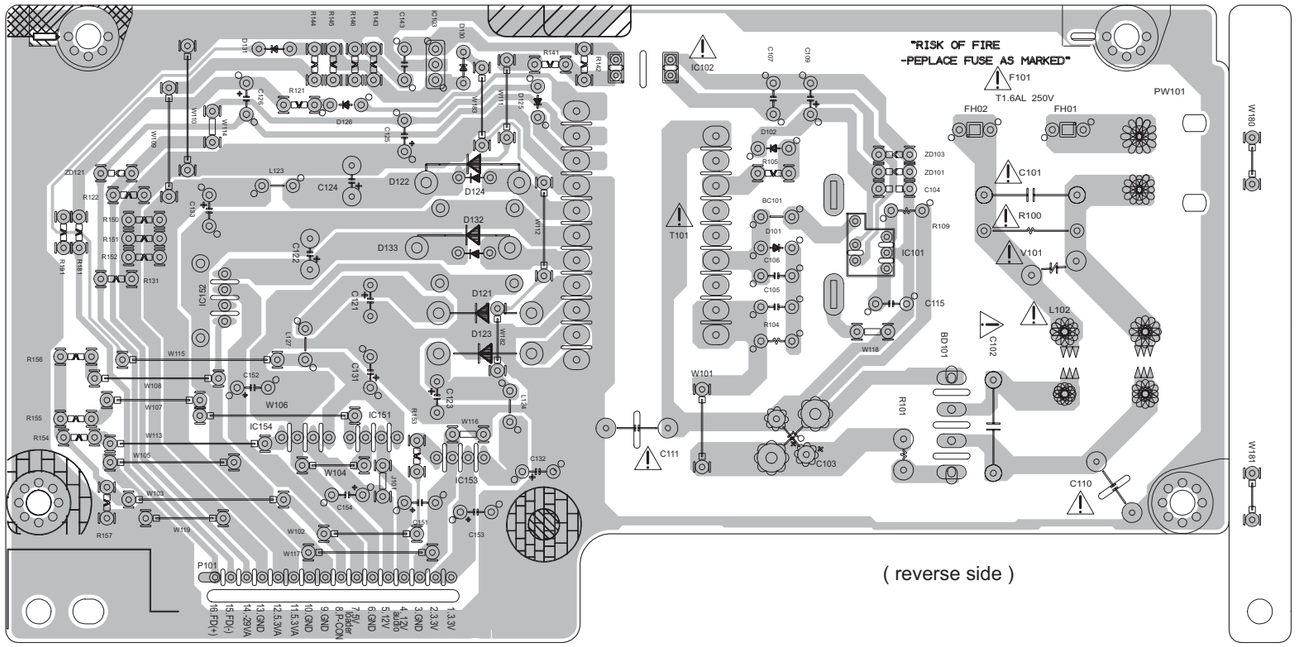
(reverse side)



■ SMPS board

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

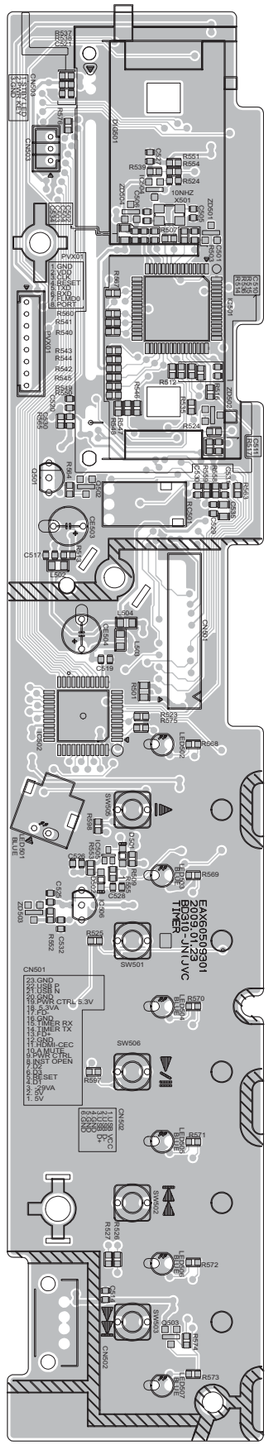




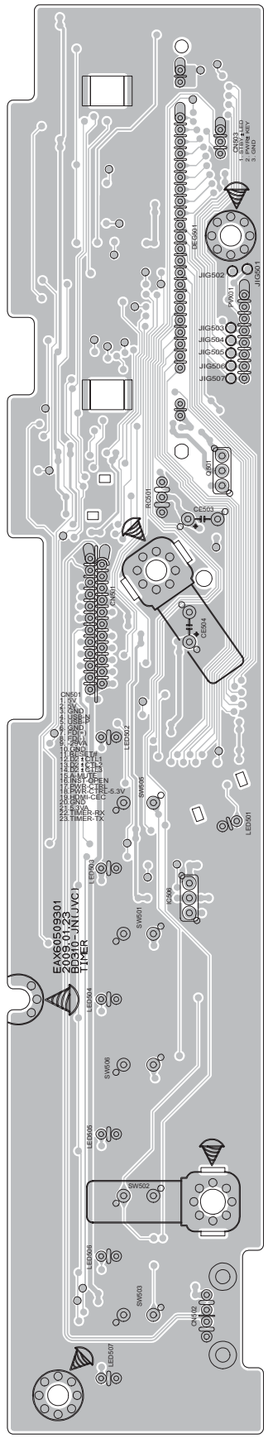
(reverse side)

■ Timer board

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



(forward side)



(reverse side)

< MEMO >

JVC
Victor Company of Japan, Limited
Audio/Video Systems Division 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB706SCH<Rev.001>)

Printed in Japan
VSE

PARTS LIST

XV-BP1J, XV-BP1C, XV-BP1B, XV-BP1E, XV-BP1EN, XV-BP1EV, XV-BP1EE, XV-BP1US, XV-BP1UX, XV-BP1UJ

MODEL	MARK
XV-BP1J	A
XV-BP1E	D
XV-BP1EE	G
XV-BP1UJ	J

MODEL	MARK
XV-BP1C	B
XV-BP1EN	E
XV-BP1US	H

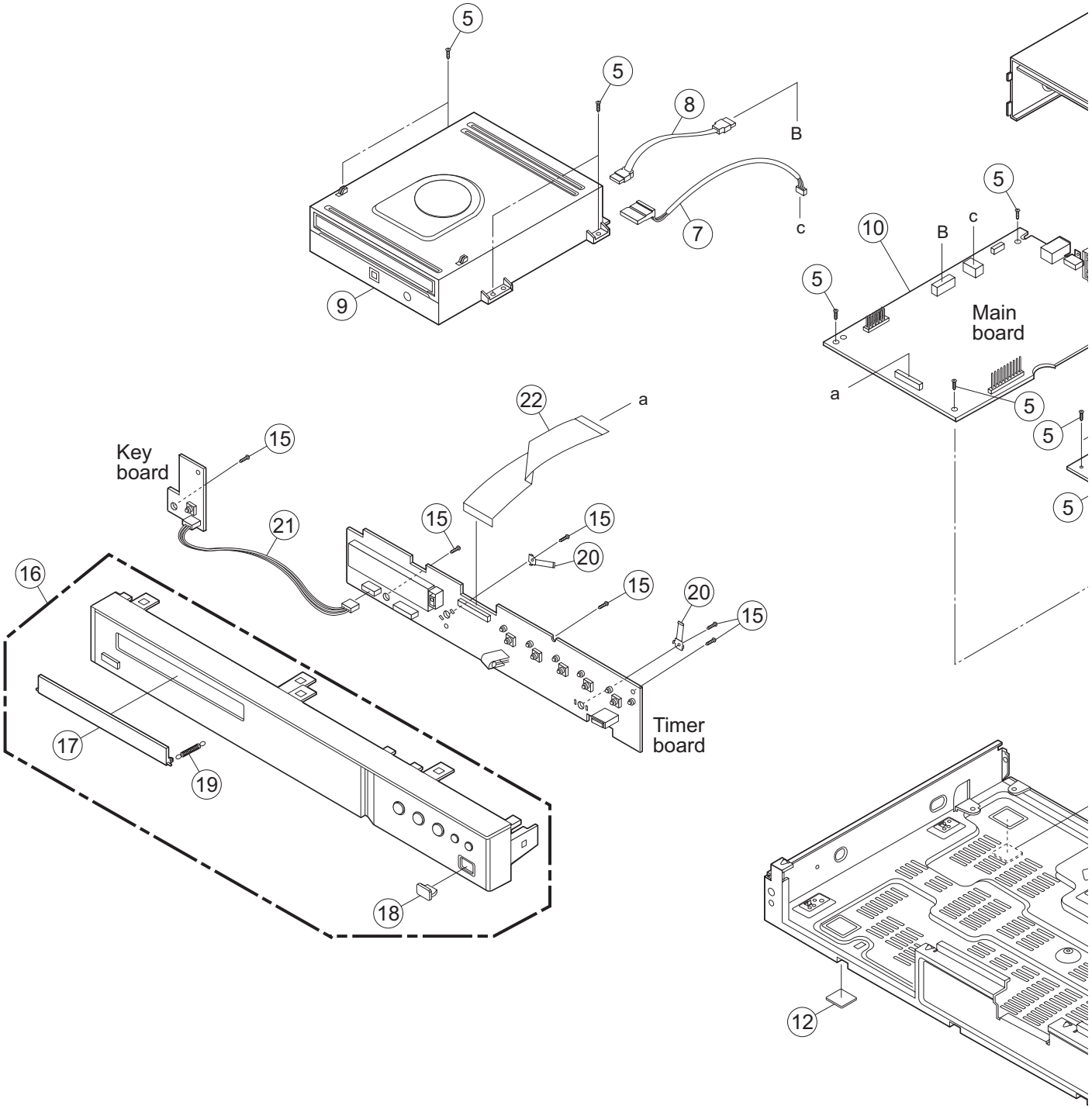
MODEL	MARK
XV-BP1B	C
XV-BP1EV	F
XV-BP1UX	I

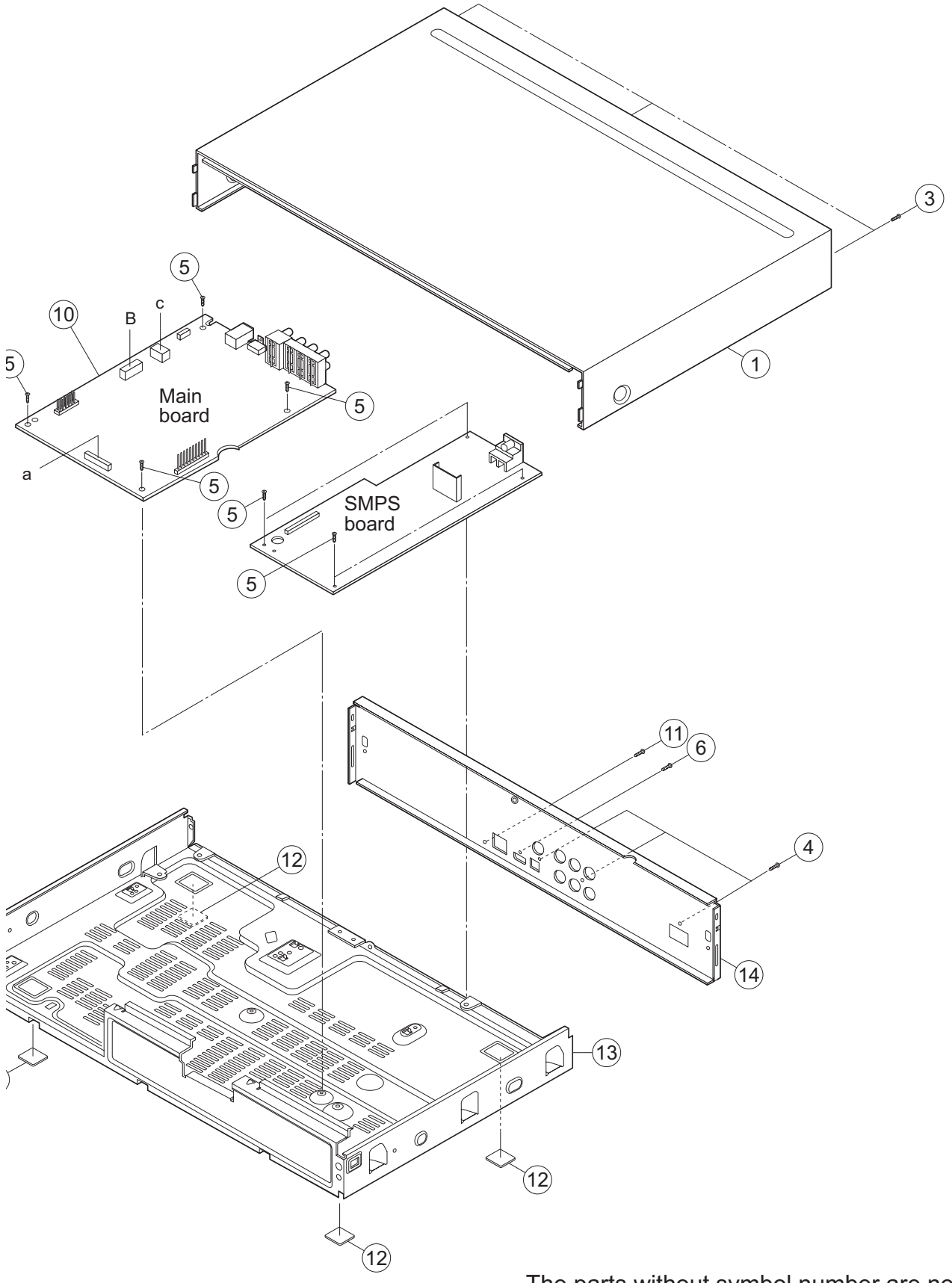
* All printed circuit boards and its assemblies are not available as service parts.

- Contents -

Exploded view of general assembly and parts list

Block No. M 1 M M





The parts without symbol number are not service.

General Assembly

Block No. [M][1][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	1	LG-MBN42965401	TOP COVER		A,B,C,D,E,F,G,H,J
	1	LG-MBN42965402	TOP COVER		I
	3	LG-1SZZR-0098H	SCREW	3MM 8MM(x3)	
	4	LG-1SZZR-0097N	SCREW	3MM 8MM(x3)	
	5	LG-1SZZR-0098J	SCREW	3MM 6.5MM(x12)	
	6	LG-353-022S	SCREW	3MM 6MM	
	7	LG-EAD56862801	HARNESS	5P	
	8	LG-EAD55660703	FFC CABLE	SATA DATA-200MM	
	9	LG-EAZ54850411	BD MECHA ASSY		
	10	LG-EBR60310112	MAIN BOARD ASSY		A,J
	10	LG-EBR60310133	MAIN BOARD ASSY		B
	10	LG-EBR60310135	MAIN BOARD ASSY		C
	10	LG-EBR60310134	MAIN BOARD ASSY		D
	10	LG-EBR60310136	MAIN BOARD ASSY		E
	10	LG-EBR60310137	MAIN BOARD ASSY		F
	10	LG-EBR60310145	MAIN BOARD ASSY		G
	10	LG-EBR60310138	MAIN BOARD ASSY		H
	10	LG-EBR60310139	MAIN BOARD ASSY		I
	11	LG-1SZZR-0097N	SCREW	3MM 8MM	
	12	LG-MCQ32325001	DAMPER	(x4)	
	13	LG-MBS42965001	FRAME CHASSIS		
	14	LG-MGC42965115	REAR PANEL		A
	14	LG-MGC42965125	REAR PANEL		B
	14	LG-MGC42965117	REAR PANEL		C,D,E,F,I
	14	LG-MGC42965118	REAR PANEL		G
	14	LG-MGC42965116	REAR PANEL		H,J
	15	LG-1SZZR-0098A	SCREW	3MM 10MM(x6)	
	16	LG-AGL71922609	FRONT PANEL ASSY		A,B,J
	16	LG-AGL71922604	FRONT PANEL ASSY		C,D,E,F,G,H,I
	17	LG-MJS60885201	TRAY FITTING		
	18	LG-MCK60886901	USB COVER		
	19	LG-4970R-0146D	SPRING		
	20	LG-3300RCH001B	PLATE	(x2)	
	21	LG-EAD35219505	HARNESS	3P	
	22	LG-EAD50273002	FFC WIRE	23P	

Electrical parts list

SMPS board

Block No. [0][1]

⚠ Symbol No.		Part No.	Part Name	Description	Local
⚠ PW101		LG-EAG35192701	POWER SOCKET	2P	
IC101		LG-0IPMG78398A	PWM IC	STR-W6251	
⚠ IC102		PZ0ILI817000B	POSITION SENSOR	LTV-817B	
⚠ IC102	or	LG-6500RDB010A	POSITION SENSOR	PC123YN2	
IC103		LG-0IPMGUC004B	REGULATOR IC	TL431K-T92-B	
IC103	or	LG-0IKE431000A	REGULATOR IC	KIA431	
IC103	or	LG-0ISS431000A	REGULATOR IC	KA431AZ	
IC152		LG-EAN44022001	REGULATOR IC	A278R05PI	
IC152	or	LG-0IPMGKE047A	REGULATOR IC	KIA278R05PI-CU	
IC153		LG-EAN43506901	REGULATOR IC	A78R33PIC	
IC153	or	LG-0IPMGKE006B	REGULATOR IC	KIA78R33PI	
IC153	or	LG-0IPMGGM002A	REGULATOR IC	G9133	
IC154		LG-0IPMGKE048A	REGULATOR IC	KIA278R12PI-CU	
D101		LG-0DRRE00163A	RECTIFIER DIODE	1KV 1.3V 5UA 25A	
D102		LG-0DR104009BA	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D102	or	LG-0DRGF00239A	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D121		LG-EAH31951401	SW DIODE	1.7V 200V 3A 150A	
D121	or	LG-0DSDI00110A	RECTIFIER DIODE	200V 1V 5UA 150A	
D123		LG-0DSDI00090A	SCHOTTKY DIODE	740MV 60V 3A	
D123	or	LG-0DSTW00030A	SCHOTTKY DIODE	700MV 60V 3A	
D124		LG-0DSNH00020C	SW DIODE		
D124	or	LG-0DSKE00141A	SCHOTTKY DIODE	550MV 60V 5A	
D125		LG-0DR104009BA	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D125	or	LG-0DRGF00239A	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D126		LG-0DR104009BA	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D126	or	LG-0DRGF00239A	RECTIFIER DIODE	400V 1.3V 5UA 30A	
D130		1SS133-T2	SI DIODE	1SS133 1.2V 90V 400MA 600MA 4N	
D131		1SS133-T2	SI DIODE	1SS133 1.2V 90V 400MA 600MA 4N	
D132		LG-0DSNH00020B	SW DIODE	60V 5V 7.85A	
D132	or	LG-0DSKE00141B	SCHOTTKY DIODE	550MV 60V 5A	
⚠ C101		LG-624-088L	FILM CAPACITOR		
⚠ C101	or	LG-624-088F	FILM CAPACITOR	100NF 10% 275V	
⚠ C101	or	LG-624-088S	BOX CAPACITOR		
⚠ C101	or	LG-EAE39104801	FILM CAPACITOR		
⚠ C102		LG-624-088L	FILM CAPACITOR		
⚠ C102	or	LG-624-088F	FILM CAPACITOR	100NF 10% 275V	
⚠ C102	or	LG-624-088S	BOX CAPACITOR		
⚠ C102	or	LG-EAE39104801	FILM CAPACITOR		
C103		LG-0CE1076R610	AL CAPACITOR	100UF 20% 250V	A,B
C103		LG-0CE686CV610	AL CAPACITOR	68uF 20% 450V	C,D,E,F
C103		LG-EAE60770601	AL CAPACITOR	68uF	G
C103		LG-0CZZR00033A	AL CAPACITOR	100uF 450V 20%	H,I,J
C104		LG-0CN1040K948	C CAPACITOR	100NF	
C105		LG-0CQ1031Y519	FILM CAPACITOR	10NF 10% 630V	
C106		LG-624-087G	C CAPACITOR	68PF/1KV SMPS	
C107		LG-0CQ2221N409	FILM CAPACITOR	2.2NF 5% 100V	
C109		LG-624-085D	AL CAPACITOR	47UF 20% 50V	
⚠ C110		LG-EAE42617701	C CAPACITOR	1000PF	
⚠ C110	or	LG-0CG1020U630	C CAPACITOR	1000PF D 400V	
⚠ C111		LG-EAE42617701	C CAPACITOR	1000PF	
⚠ C111	or	LG-0CG1020U630	C CAPACITOR	1000PF D 400V	
C115		LG-0CQ4721N409	FILM CAPACITOR	4.7NF	
C121		LG-0CE108EH610	AL CAPACITOR	1000UF 20%	
C122		LG-0CE108BF630	AL CAPACITOR	1000UF 20%	
C123		LG-0CE108BF630	AL CAPACITOR	1000UF 20%	
C124		LG-EAE34802401	AL CAPACITOR	2200UF 20% 16V	
C125		LG-624-085D	AL CAPACITOR	47UF 20% 50V	
C126		LG-0CE2276F638	AL CAPACITOR	220UF 20% 16V	
C133		LG-624-082H	AL CAPACITOR	1000UF 20%	
C143		LG-0CQ1042K409	FILM CAPACITOR	100NF 5% 50V	
C151		QET61CM-107Z	E CAPACITOR	100uF 16V M	
C152		QET61CM-107Z	E CAPACITOR	100uF 16V M	
C153		QET61CM-107Z	E CAPACITOR	100uF 16V M	
C154		QET61CM-107Z	E CAPACITOR	100uF 16V M	
R100		QRE121J-155Y	C RESISTOR	1.5MΩ 1/2W J	
R101		LG-614-007A	CEMENT RES	2.7Ω 5% 2W	
R104		LG-0RS5602K619	METAL FILM RES	56KΩ 5% 2W	
R105		LG-0RD0222F608	CARBON FILM RES	22Ω 5% 1/6W	
R109		LG-0RS0330K618	METAL FILM RES	0.33Ω 5% 2W	
⚠ R121		LG-0RF0200F708	FUSE RESISTOR	0.2Ω 10% 1/6W	
R122		QRD161J-104Y	C RESISTOR	100kΩ 1/6W J	
R131		LG-0RD8202F608	CARBON FILM RES	82KΩ 5% 1/6W	
R141		QRD161J-221	C RESISTOR	220Ω 1/6W J	
R142		QRD161J-222Y	C RESISTOR	2.2kΩ 1/6W J	
R143		QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R144		LG-0RN4701F408	METAL FILM RES	4.7KΩ 1% 1/6W	
R145		LG-0RN3301F408	METAL FILM RES	3.3KΩ 1% 1/6W	
R146		LG-0RD8200F608	CARBON FILM RES	820Ω 5% 1/6W	
R153		QRD161J-472Y	C RESISTOR	4.7kΩ 1/6W J	
R154		QRD161J-472Y	C RESISTOR	4.7kΩ 1/6W J	
R156		QRD161J-472Y	C RESISTOR	4.7kΩ 1/6W J	
R157		LG-0RD1002F608	CARBON FILM RES	10KΩ 5% 1/6W	
R181		LG-0RD0152F608	CARBON FILM RES	15Ω 5% 1/6W	
R191		LG-0RD0152F608	CARBON FILM RES	15Ω 5% 1/6W	
⚠ L102		LG-616-145G	FILTER		
⚠ L102	or	LG-616-145E	NOISE FILTER	22MH	
L123		LG-6140RCC003H	RF COIL	22UH 5V 0A	
T101		LG-EBJ48766701	SW TRANSFORMER		
BC101		LG-EAM56488801	BEAD FILTER		
BC101	or	LG-636-004C	BEAD FILTER	70Ω	
BD101		LG-EAH31952001	BRIDGE DIODE	600V 1V 500UA 60A	
BD101	or	LG-0DRDI00201A	BRIDGE DIODE	600V 1.05V 500UA 2A	
⚠ F101		LG-0FS1601B51D	FUSE	250V 1.6A	
FH01		LG-586-008B	HOLDER		
FH02		LG-586-008B	HOLDER		
P101		LG-6630R-BF03P	B TO B CONN	16P	
⚠ V101		LG-EAF38754501	VARISTOR	680V 10% 500PF	
⚠ V101	or	LG-EAF43134201	VARISTOR	680V 10% 250PF	
⚠ V101	or	LG-EAF43134701	VARISTOR	680V 10% 230F	A,B,I,J
ZD101		LG-0DZ330009CA	Z DIODE	33V	
ZD103		LG-0DZ100009AA	Z DIODE	10V	
ZD103	or	LG-0DZ102609AB	Z DIODE	10V	
ZD121		LG-0DZ270009BD	Z DIODE	2.7V	

Front board

Block No. [0][2]

⚠ Symbol No.		Part No.	Part Name	Description	Local
IC501		LG-EAN33391102	MICON	UPD78F0535GK(S)-UET-A	
IC501	or	LG-EAN33391101	MICON	UPD78F0535GK-UET	
IC502		LG-0IPRPPY002A	DISP DRIVE IC	PTC6315	
IC505		LG-0TRRH80042A	FET	2SK3018-T106	
IC506		LG-0TR534409AA	BIPOLAR TR	2SC5344Y	
Q501		LG-0TR320509AB	TRANSISTOR	KTC3205-Y(KTC2236A) KTC3205-TP	
Q502		LG-0TR103009AC	BIPOLAR TR	KRA103S-T1	
Q503		LG-0TR150509AD	BIPOLAR TR	KTA1505S-Y	
D501		LG-0DRRM00138A	SCHOTTKY DIODE	550MV 45V 100MA	
D502		LG-0DRRM00138A	SCHOTTKY DIODE	550MV 45V 100MA	
C501		LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C502		LG-0CH1105F942	C CAPACITOR	1UF	
C503		LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C504		LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C505		NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C506		NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C510		LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C511		LG-0CH1105F942	C CAPACITOR	1UF	
C514		LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C517		LG-0CH1103K562	C CAPACITOR	10NF 10% 50V	
C519		LG-0CH1223K942	C CAPACITOR	22NF	

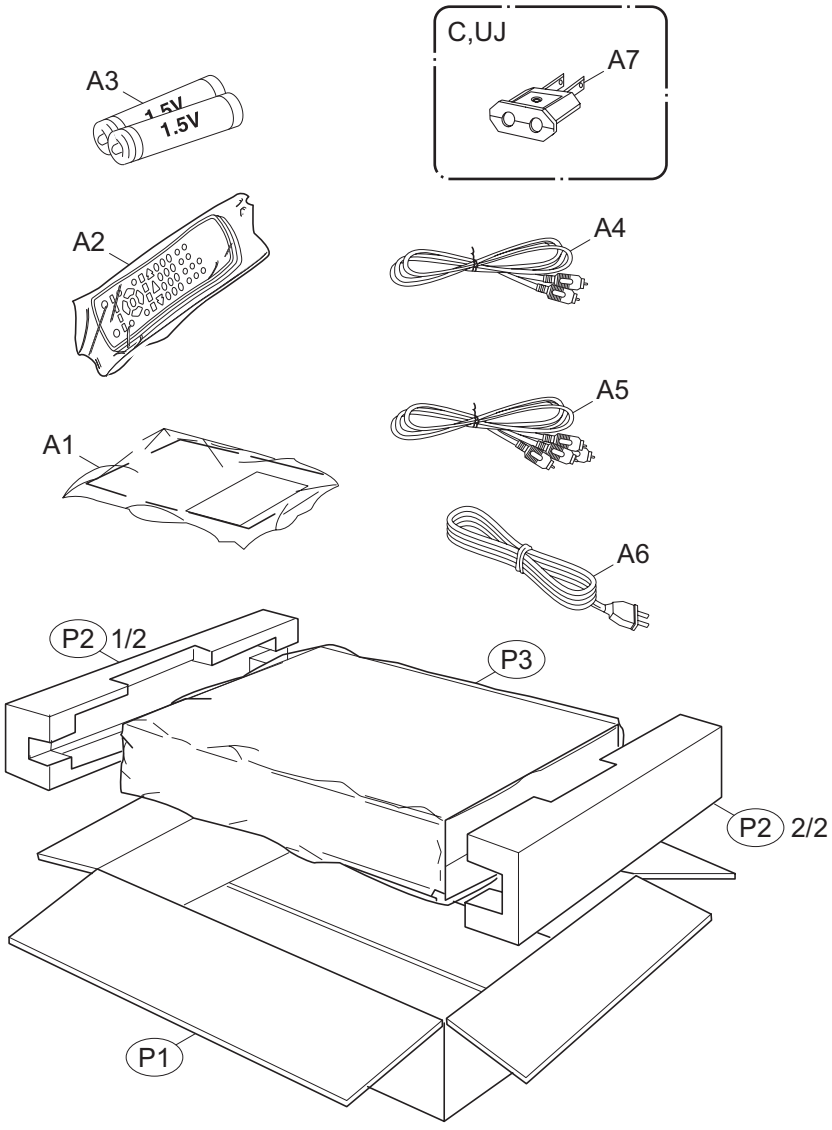
⚠ Symbol No.	Part No.	Part Name	Description	Local
C520	LG-0CK104CKG6A	C CAPACITOR	100NF 10% 50V	
C521	LG-0CK104CKG6A	C CAPACITOR	100NF 10% 50V	
C525	LG-0CH1105F942	C CAPACITOR	1UF	
C526	LG-0CH1105F942	C CAPACITOR	1UF	
C527	LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C529	LG-0CH1104K512	C CAPACITOR	100NF 10% 16V	
C530	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C531	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C532	LG-0CH1105F942	C CAPACITOR	1UF	
C533	LG-0CK104CKG6A	C CAPACITOR	100NF 10% 50V	
C535	LG-0CK106DD64A	C CAPACITOR	10UF 20% 10V	
R501	LG-0RH0000D622	RESISTOR	0Ω 5% 1/8W	
R503	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R507	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R509	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R512	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R513	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R515	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R516	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R523	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R524	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R525	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R526	NRSA6AD-821W	MG RESISTOR	820Ω 1/16W D	
R527	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R535	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R536	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R537	LG-0RH0222C622	RESISTOR	22Ω 5% 1/10W	
R538	LG-0RH0222C622	RESISTOR	22Ω 5% 1/10W	
R540	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R541	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R542	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R543	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R544	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R545	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R546	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R547	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R548	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R549	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R550	NRSA63J-752X	MG RESISTOR	7.5kΩ 1/16W J	
R551	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R552	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R553	NRSA6AD-273W	MG RESISTOR	27kΩ 1/16W D	
R555	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R559	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R560	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R563	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R564	LG-0RH3302C622	RESISTOR	33KΩ 5% 1/10W	
R565	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R567	NRSA63J-0R0X	MG RESISTOR	0Ω 1/10W J	
R568	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R569	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R570	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R571	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R572	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R573	LG-0RH1000C422	RESISTOR	100Ω 1% 1/10W	
R574	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R575	LG-0RH1800C622	RESISTOR	180Ω 5% 1/10W	
R576	LG-0RH1800C622	RESISTOR	180Ω 5% 1/10W	
R597	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R598	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
L502	LG-6200HJC102A	BEAD FILTER	1000Ω	
L503	LG-6200HJC102A	BEAD FILTER	1000Ω	
L504	LG-6200HJC102A	BEAD FILTER	1000Ω	
CE503	LG-0CE4763F638	AL CAPACITOR	47UF 20% 16V	
CE504	LG-0CE4763F638	AL CAPACITOR	47UF 20% 16V	
CN501	LG-6630R-FB05W	FFC/FPC/PIC CON	23P	
CN502	LG-EAG43125201	USB CONNECTOR		
CN503	LG-561-711C	CONNECTOR	3P	
DIG501	LG-EAJ49965601	VFD		
LED401	LG-0DLAU0239AA	LED		
LED501	LG-EAV60667201	LED		
LED502	LG-EAV42536401	LED		
LED503	LG-EAV42536401	LED		
LED504	LG-EAV42536401	LED		
LED505	LG-EAV42536401	LED		
LED506	LG-EAV42536401	LED		
LED507	LG-EAV42536401	LED		
RC501	LG-EAV41920401	MODULE RECEIVER	AT138ARF1	
SW401	LG-556-219B	TACT SWITCH		
SW501	LG-556-219B	TACT SWITCH		
SW502	LG-556-219B	TACT SWITCH		
SW503	LG-556-219B	TACT SWITCH		
SW505	LG-556-219B	TACT SWITCH		
SW506	LG-556-219B	TACT SWITCH		
X501	LG-EAW32265901	CRYSTAL	10MHZ	
ZD501	LG-0DZPH00118A	Z DIODE	6.8V +-5% 15Ω	
ZD502	LG-0DZPH00118A	Z DIODE	6.8V +-5% 15Ω	
ZD503	LG-0DZPH00079A	Z DIODE	3.6V +-5% 90Ω	
ZD504	LG-0DZPH00118A	Z DIODE	6.8V +-5% 15Ω	

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M

No additional / supplemental order of WARRANTY CARDs are available.



The parts without symbol number are not service.

Packing and Accessories

Block No. [M][3][M][M]

⚠	Symbol No.	Part No.	Part Name	Description	Local
	A 1	LG-AFN72974901	INST ASSY		A
	A 1	LG-AFN72974903	INST ASSY		B
	A 1	LG-AFN72974904	INST ASSY		C
	A 1	LG-AFN72974905	INST ASSY		D
	A 1	LG-AFN72974907	INST ASSY		E
	A 1	LG-AFN72974906	INST ASSY		F
	A 1	LG-AFN72974908	INST ASSY		G
	A 1	LG-AFN72974909	INST ASSY		H
	A 1	LG-AFN72974910	INST ASSY		I
	A 1	LG-AFN72974902	INST ASSY		J
	A 2	LG-AKB72909101	REMOCON UNIT		A,B,J
	A 2	LG-AKB72909001	REMOCON UNIT		C,D,E,F,G
	A 2	LG-AKB72910501	REMOCON UNIT		H,I
	A 3	----------	BATTERY	1.5V(x2)	
	A 4	LG-6850R-PAA8F	RCA CABLE		A,B,J
	A 4	LG-6850R-PAA2F	RCA CABLE	1P	C,D,E,F,G,H,I
	A 5	LG-6850R-PBA8H	RCA CABLE		A,B,J
	A 5	LG-6850R-PBA2H	RCA CABLE	1.2M 2P	C,D,E,F,G,H,I
!	A 6	LG-6410RGHV01A	POWER CORD		A,B
!	A 6	LG-EAD36124401	POWER CORD		C
!	A 6	LG-6410RCDV01A	POWER CORD		D,E,F,G,H,I,J
!	A 7	LG-6634A00007A	AC PLUG		B,J
	P 1	LG-MAY61954831	CARTON		A,B,J
	P 1	LG-MAY61954834	CARTON		C,D,E,F
	P 1	LG-MAY61954835	CARTON		G
	P 1	LG-MAY61954836	CARTON		H
	P 1	LG-MAY61954837	CARTON		I
	P 2	LG-MFZ47272602	CUSHION		
	P 3	LG-3880SCS001E	POLY BAG		