

## HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

# SERVICE MANUAL

# EX2R CHASSIS

MODEL NAME

REMOTE COMMANDER

DESTINATION

**KDL-46VL150**

RM-YD028

US/CND

**ORIGINAL MANUAL ISSUE DATE:9/2009**

 :UPDATED ITEM

**REVISION DATE**

**SUBJECT**

9/2009

No revisions or updates are applicable at this time.

12/2009

Corrected BM3S Board Schematics, PWB's and PN's. Replaced pages 26-35,45,49 & 62.

LCD DIGITAL COLOR TELEVISION

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# SONY®

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## SPECIFICATIONS

**Power Requirements** 120V AC, 60Hz

**Power Consumption (W)**

**In Use (Max)** 245W

**In Standby** Less than 1 W

**VIDEO (IN) 1/2:**

**S Video (4-Pin Mini DIN (VIDEO 2 Only))**

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative

C: 0.286 Vp-p (Burst signal), 75 ohms

**Video**

1 Vp-p, 75 ohms unbalanced, sync negative

**Audio**

500 mVrms (Typical)

Impedance: 47 kilohms

**COMPONENT IN 1/2:**

**YP<sub>B</sub>P<sub>R</sub> (Component Video)**

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative

P<sub>B</sub>: 0.7 Vp-p, 75 ohms

P<sub>R</sub>: 0.7 Vp-p, 75 ohms

Signal format: 480i, 480p, 720p, 1080i, 1080p

**AUDIO**

500 mVrms (Typical)

Impedance: 47 kilohms

**HDMI IN 1/2/3/4**

**HDMI:** Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p

Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits

**AUDIO**

500 mVrms (Typical)

Impedance: 47 kilohms

**AUDIO OUT:**

500 mVrms (Typical)

**DIGITAL AUDIO OUT (OPTICAL):**

PCM optical signal

**PC IN:**

D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive

**PC AUDIO INPUT:**

Stereo mini jack, 500 mVrms (Typical)

Impedance: 47 kilohms

**USB:**

USB input support mass storage device class (USB MSC) that may include thumbdrives, hard disks and some MP3 players and cameras. This TV does not support MTP or PTP protocols used by some MP3 players and cameras. Supported JPG files include those that are compliant with ISO/IEC 10918-1 JPEG specification (8 bit per component, Grayscale/Color, Y:Cb:Cr=4:2:2 or Y:Cb:Cr=4:2:0, Base line DCT, Non-differential Huffman coding) and EXIF 2.2. Supported MP3 files bit rates in kbps include 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 in both constant and variable rate. Scan frequencies supported include 32, 44.1 and 48 KHz.

### Licensing Information

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Ferguson Patent Properties, LLC:  
U.S. Patent No. 5,717,422  
U.S. Patent No. 6,816,141

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"PLAYSTATION" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.

Your BRAVIA TV is ENERGY STAR® qualified in the "Home" mode.

It meets strict energy efficiency guidelines set by the U.S.

Environmental Protection Agency and Department of Energy. ENERGY STAR is a joint program of these government agencies, designed to promote energy efficient products and practices.

- ☐ When the TV is initially set up, it is designed to meet ENERGY STAR requirements.
- ☐ Changes to certain features, settings, and functionalities of this TV (i.e. Picture/Sound, Light Sensor, Power Savings) can slightly change the power consumption.

Depending upon such changed settings, the power consumption may increase which possibly could exceed the limits required for the ENERGY STAR qualification.



KDL-46VL150		
<b>Speaker Output</b> <b>Speaker/Full Range (2)</b>		10W + 10W
	<b>mm</b> <b>in</b>	35 X 175 1 <sup>7/16</sup> x 7
<b>Dimensions (W x H x D)</b> <b>with stand</b>	<b>mm</b> <b>in</b>	1,094 x 743 x 330 mm 43 <sup>1/8</sup> x 29 <sup>3/8</sup> x 13 in
	<b>without stand</b>	
	<b>mm</b> <b>in</b>	1,094 x 695 x 85 mm 43 <sup>1/8</sup> x 27 <sup>3/8</sup> x 3 <sup>3/8</sup> in
	<b>wall-mount hole pattern (mm)</b>	300 x 300
	<b>wall-mount screw size (mm)</b>	M6 x 8-12 mm
<b>Mass</b> <b>with stand</b>	<b>kg</b> <b>lbs</b>	24.0 kg 52.9 lbs
	<b>without stand</b>	
	<b>kg</b> <b>lbs</b>	20.7 kg 45.6 lbs

All measurements are approximations.

#### Television system

NTSC American TV Standard  
 ATSC (8VSB terrestrial) ATSC compliant 8VSB  
 QAM on cable ANSI/SCTE 07 2000

#### Channel coverage

Analog  
 2-69 Terrestrial  
 1-135 Cable  
 Digital  
 2-69 Terrestrial  
 1-135 Cable

#### Antenna

75-ohm external terminal for RF inputs

#### Panel System

LCD (Liquid Crystal Display) Panel

#### Display Resolution (horizontal x vertical)

1,920 dots x 1,080 lines

#### Screen Size (measured diagonally)

~ 46 inches

#### Supplied Accessories

Remote Commander RM-YD028  
 Two Size AA (R6) Batteries  
 AC Power Cord  
 Cable Holder (1 attached to the Table-Top Stand)  
 Operating Instructions  
 Quick Setup Guide  
 Warranty Card  
 Safety and Regulatory Booklet  
 Attaching the Table-Top Stand Flyer  
 Screws (4) (For some models the screws are attached)

#### Optional Accessories

Connecting Cables  
 Wall-Mount Bracket  
 SU-WL500

## WARNINGS AND CAUTIONS - ENGLISH

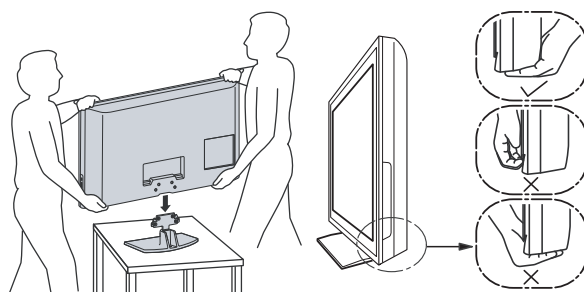
### CAUTION

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

### CARRYING THE TV

Be sure to consider the following while setting up your TV:

- Carry the TV with an adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damages.



### WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.



### SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

## WARNINGS AND CAUTIONS - FRENCH

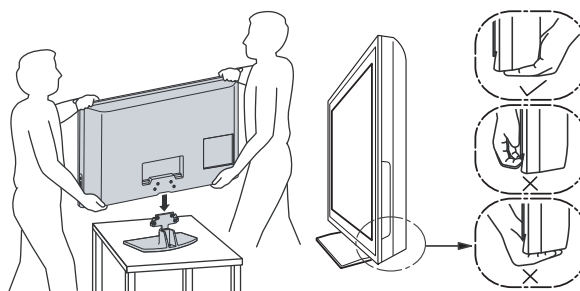
### ATTENTION!!

Ces instructions de service sont à l'usage du personnel de service qualifié seulement. Pour prévenir le risque de choc électrique, ne pas faire l'entretien autre que celui contenu dans le Mode d'emploi à moins que vous soyez qualifié faire ainsi.

### POUR TRANSPORTER LE TÉLÉVISEUR

Tenez compte de ce qui suit pendant l'installation du téléviseur :

- Transportez le téléviseur avec le nombre de personnes approprié ; un téléviseur de grande taille doit être transporté par au moins deux personnes.
- Lors du transport du téléviseur, il est important de placer vos mains adéquatement pour votre sécurité, ainsi que pour éviter de causer des dommages.



### ALERTE!!

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

### ⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifiés par une trame et par une marque ⚠ sur les schémas de principe, les vues explosées et les listes de pièces sont d'une importance critique pour la sécurité du fonctionnement. Ne les remplacer que par des composants Sony dont le numéro de pièce est indiqué dans le présent manuel ou dans des suppléments publiés par Sony. Les réglages de circuit dont l'importance est critique pour la sécurité du fonctionnement sont identifiés dans le présent manuel. Suivre ces procédures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

## SAFETY-RELATED COMPONENT WARNING

There are critical components used in LCD color TVs that are important for safety. These components are identified with shading and  $\triangle$  mark on the schematic diagrams and the electrical parts list. It is essential that these critical parts be replaced only with the part number specified in the electrical parts list to prevent electric shock, fire, or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor guarantee.

## USE CAUTION WHEN HANDLING THE LCD PANEL

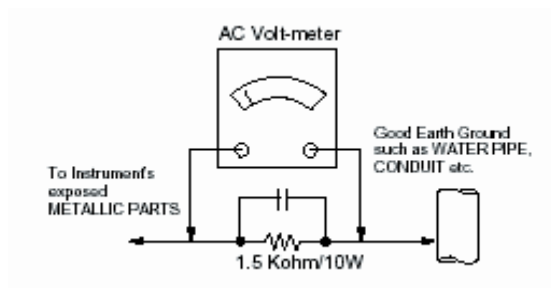
**When repairing the LCD panel, be sure you are grounded by using a wrist band.**

When installing the LCD panel on a wall, the LCD panel must be secured using the 4 mounting holes on the rear cover.

### To avoid damaging the LCD panel:

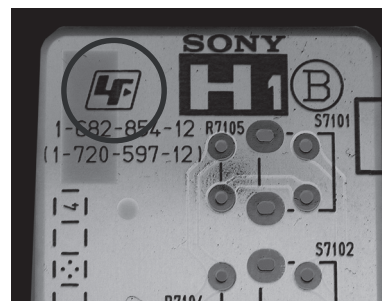
- do not press on the panel or frame edge to avoid the risk of electric shock.
- do not scratch or press on the panel with any sharp objects.
- do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
- do not expose the LCD panel to direct sunlight.
- avoid contact with water. It may cause a short circuit within the module.
- disconnect the AC adapter when replacing the backlight (CCFL) or inverter circuit.  
(High voltage occurs at the inverter circuit at 650Vrms.)
- always clean the LCD panel with a soft cloth material.
- use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
- protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

## LEAKAGE CURRENT HOT CHECK CIRCUIT



**example 1**

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. H1 etc [ see example ]. The servicing of these boards requires special precautions to be taken as outlined below.



It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Part number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

### How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

### Leakage Test

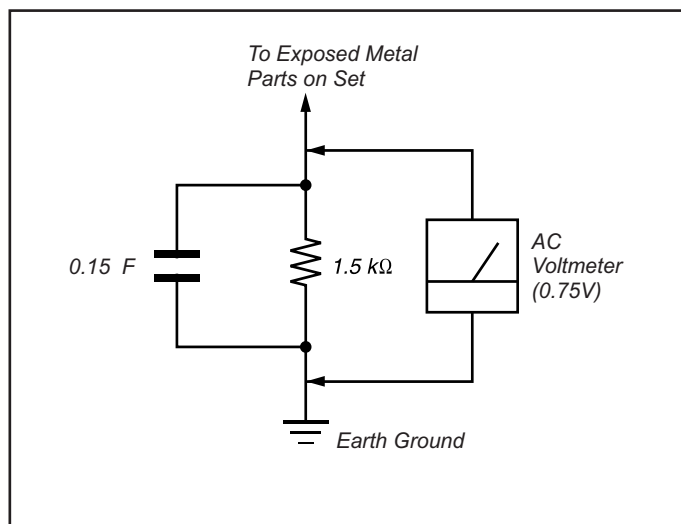


Figure A. Using an AC voltmeter to check AC leakage.

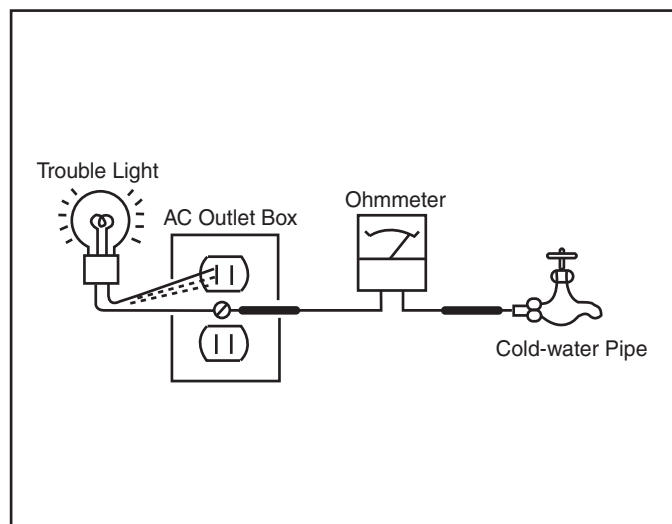


Figure B. Checking for earth ground.

## SELF-DIAGNOSTIC FUNCTION

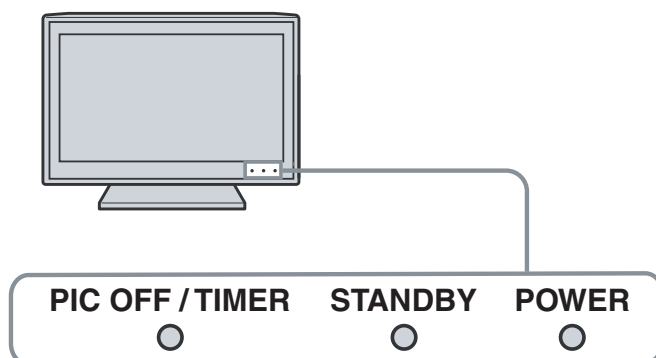


The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY LED indicator will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the STANDBY LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

### 1. Diagnostic Test Indicators

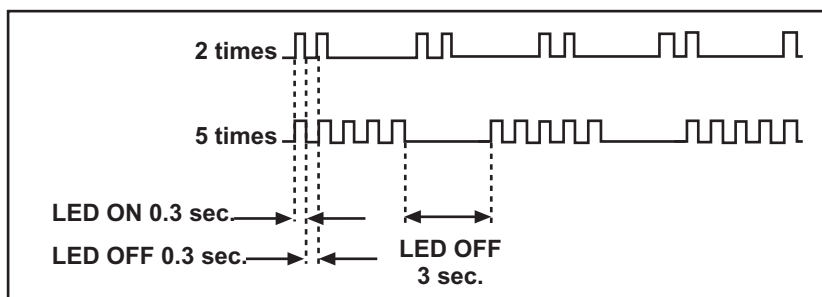
When an error occurs, the STANDBY LED indicator will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the indicator will identify the first of the problem areas.

#### LED Indicators



#### Description of LED Indicators

LED	LED Type	Description
POWER LED	Green LED	Lights up in green when the TV is turned on.
STANDBY LED	Red LED	Lights up in red when the function <b>PC Power Management</b> is activated and there is no signal received while in the <b>PC</b> input. If the LED blinks in red continuously, this may indicate the TV need servicing.
PIC OFF/ TIMER LED	Amber or Green LED	Lights up in amber when the <b>Timer</b> or <b>Sleep</b> functions are set. When the time is set, this LED will remain lit even if the TV is turned off. Lights up in green when the <b>Backlight</b> is turned off.



## STANDBY/LED Diagnostic Description

Diagnostic Item Description	Number of times STANDBY lamp flashes	Possible Location
Main Power	2 times	Power Supply Board G7N Board
DC Alert1	3 times	BM3 (Main) Board Power Supply Board G7N Board
TCON Error	4 times	LCD Panel
HDMI	5 times	BM3 (Main) Board
Backlight	6 times	LCD Panel
Temp	7 times	BM3 (Main) Board
HFR Error	8 times	LCD Panel

## Viewing the Self Check Diagnostic List

- TV must be in standby mode. (Power off).
- Press the following buttons on the Remote Commander within a second of each other:

[DISPLAY] → Channel [5] → Volume [+/-] → [POWER].

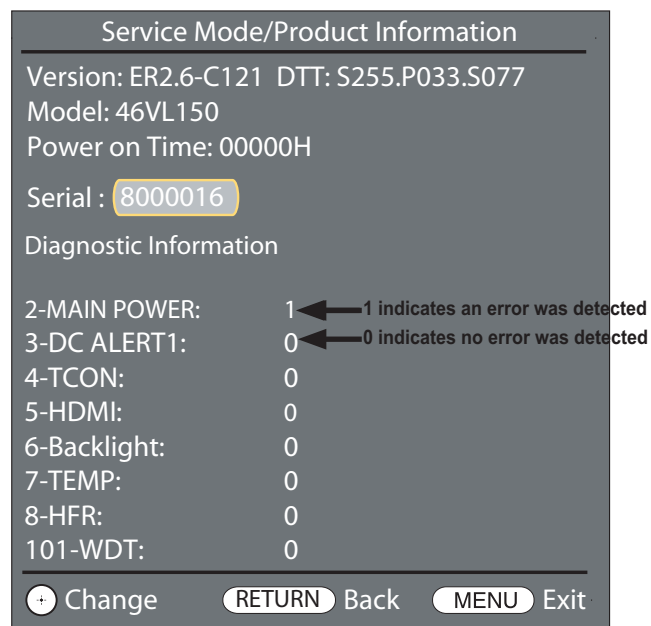
The Self Check list displays.

**NOTE: This is the same as accessing Service Adjustments.**

The BRAVIA logo displays momentarily, then the Service Mode list displays.



- To display the Self Diagnostic list, press [+].



- To exit Service Mode, press [MENU].

## SECTION 1: DISASSEMBLY

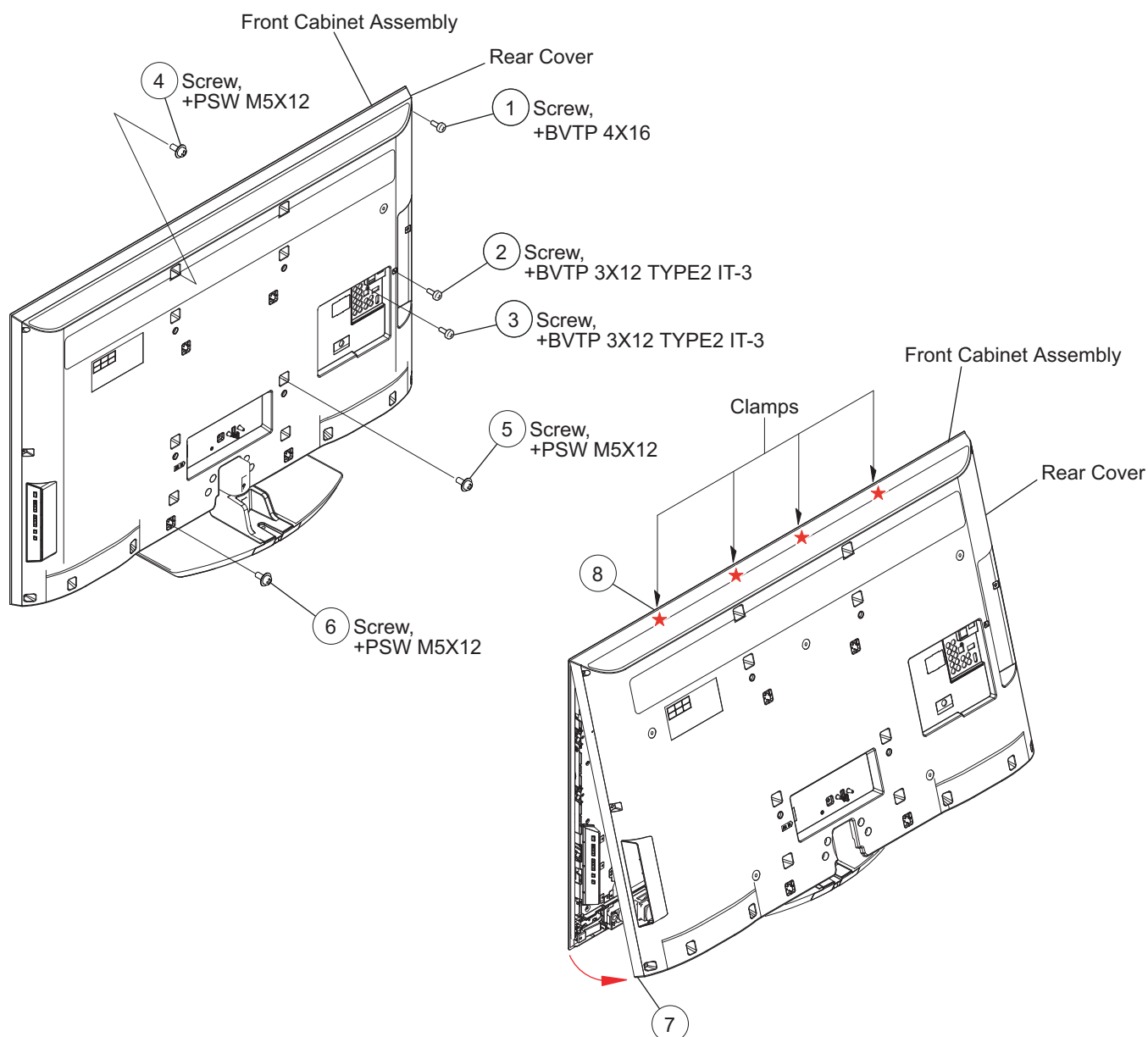
### 1-1. REAR COVER REMOVAL

- ① Remove 10 screws from Rear Cover
- ② Remove 1 screw from Side Jack position
- ③ Remove 1 screw from Terminal position
- ④ Remove 2 screws from Panel Spine positions
- ⑤ Remove 4 screws from VESA positions
- ⑥ Remove 4 screws from Bottom Frame positions
- ⑦ Carefully lift Rear Cover bottom side and rotate toward top side
- ⑧ Release Clamps and remove Rear Cover from Front Cabinet Assembly

NOTE: The Rear Cover is attached to Front Cabinet Assembly with small Clamps (4 places).

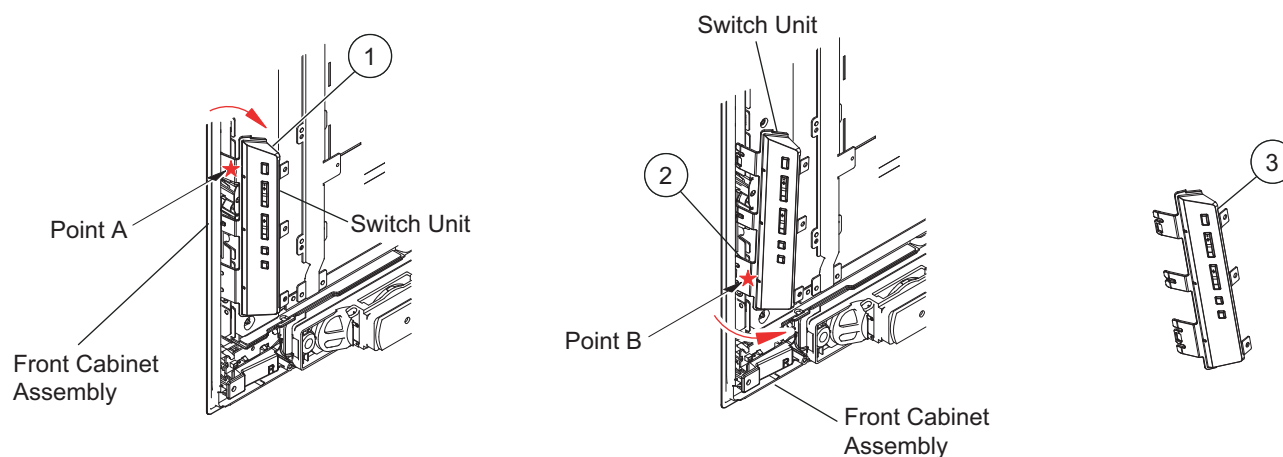
Use caution when removing the Rear Cover not to damage these Clamps.

To re-install the Rear Cover, press the Rear Cover down on Clamps to lock into position.



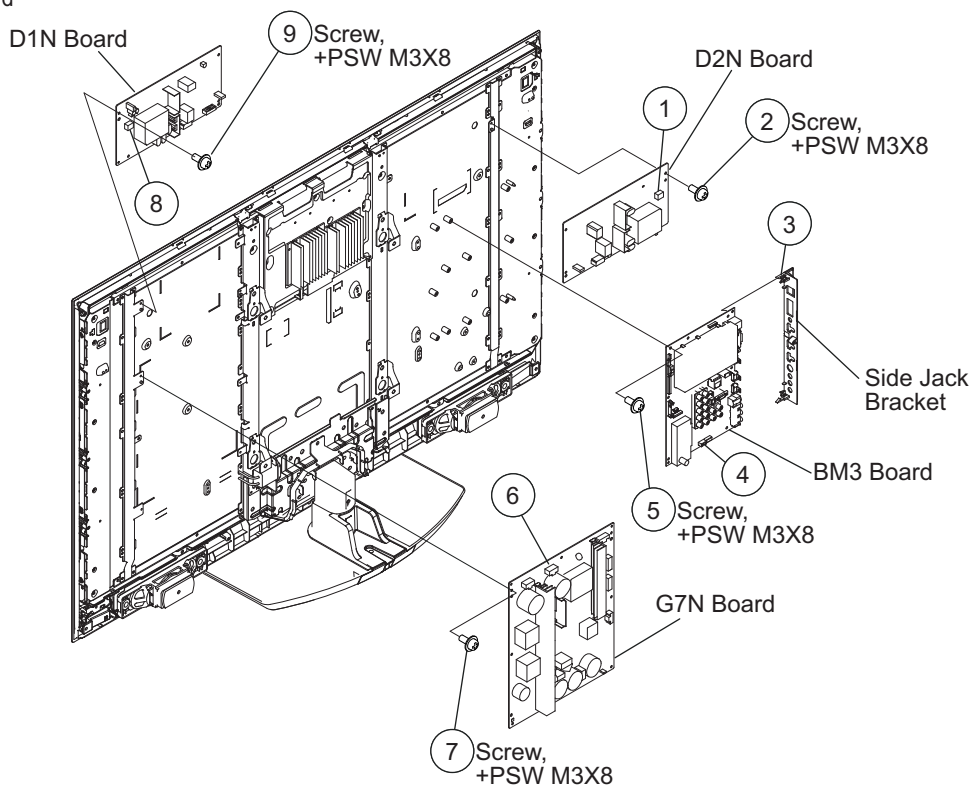
## 1-2. SWITCH UNIT REMOVAL

- ① Push Point A as shown and rotate Switch Unit clockwise to release the hook from Front Cabinet Assembly.
- ② Push Point B as shown and rotate Switch Unit counterclockwise to release the hook from Front Cabinet Assembly.
- ③ Disconnect 1 connector from Switch Unit



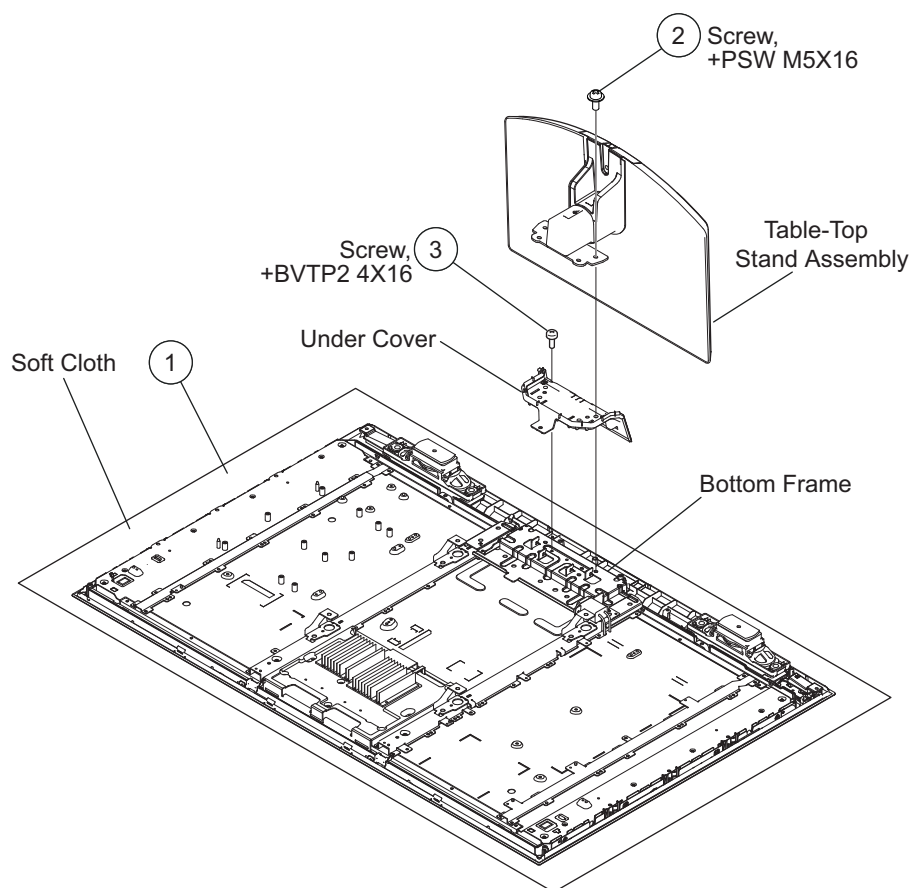
## 1-3. BM3 BOARD, D1N BOARD, D2N BOARD, AND G7N (POWER) BOARD REMOVAL

- ① Disconnect 3 connectors from D2N Board
- ② Remove 2 screws from D2N Board
- ③ Unhook Side Jack Bracket from Main BM3 Board position
- ④ Disconnect 5 connectors from BM3 Board
- ⑤ Remove 8 screws from BM3 Board
- ⑥ Disconnect 7 connectors from G7N (Power) Board
- ⑦ Remove 4 screws from G7N (Power) Board
- ⑧ Disconnect 4 connectors from D1N Board
- ⑨ Remove 2 screws from D1N Board



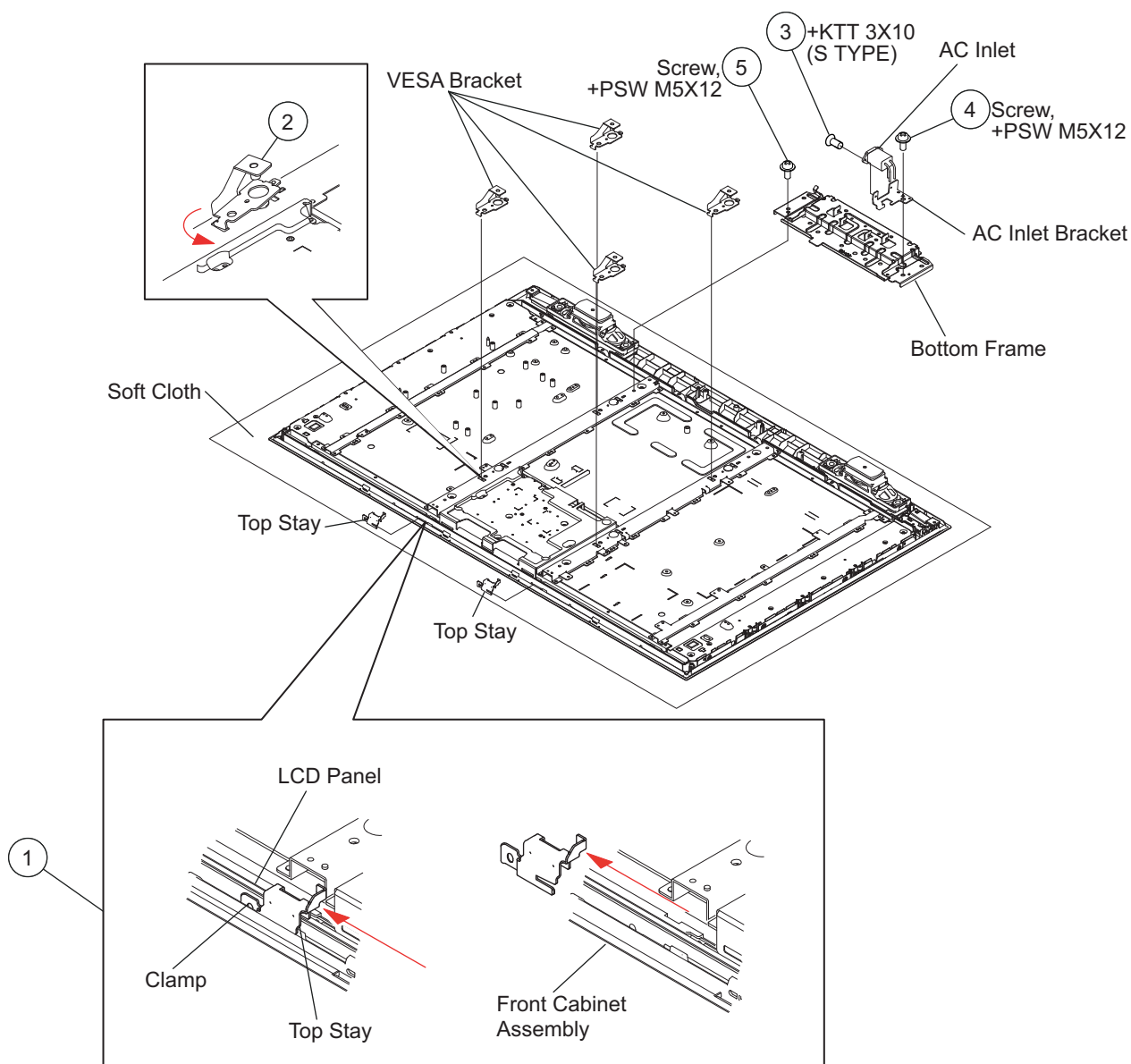
## 1-4. TABLE-TOP STAND ASSEMBLY AND UNDER COVER REMOVAL

- ① Gently place the TV set face down onto a soft cloth
- ② Remove 4 screws from Table-Top Stand Assembly
- ③ Remove 2 screws from Under Cover to detach from Bottom Frame



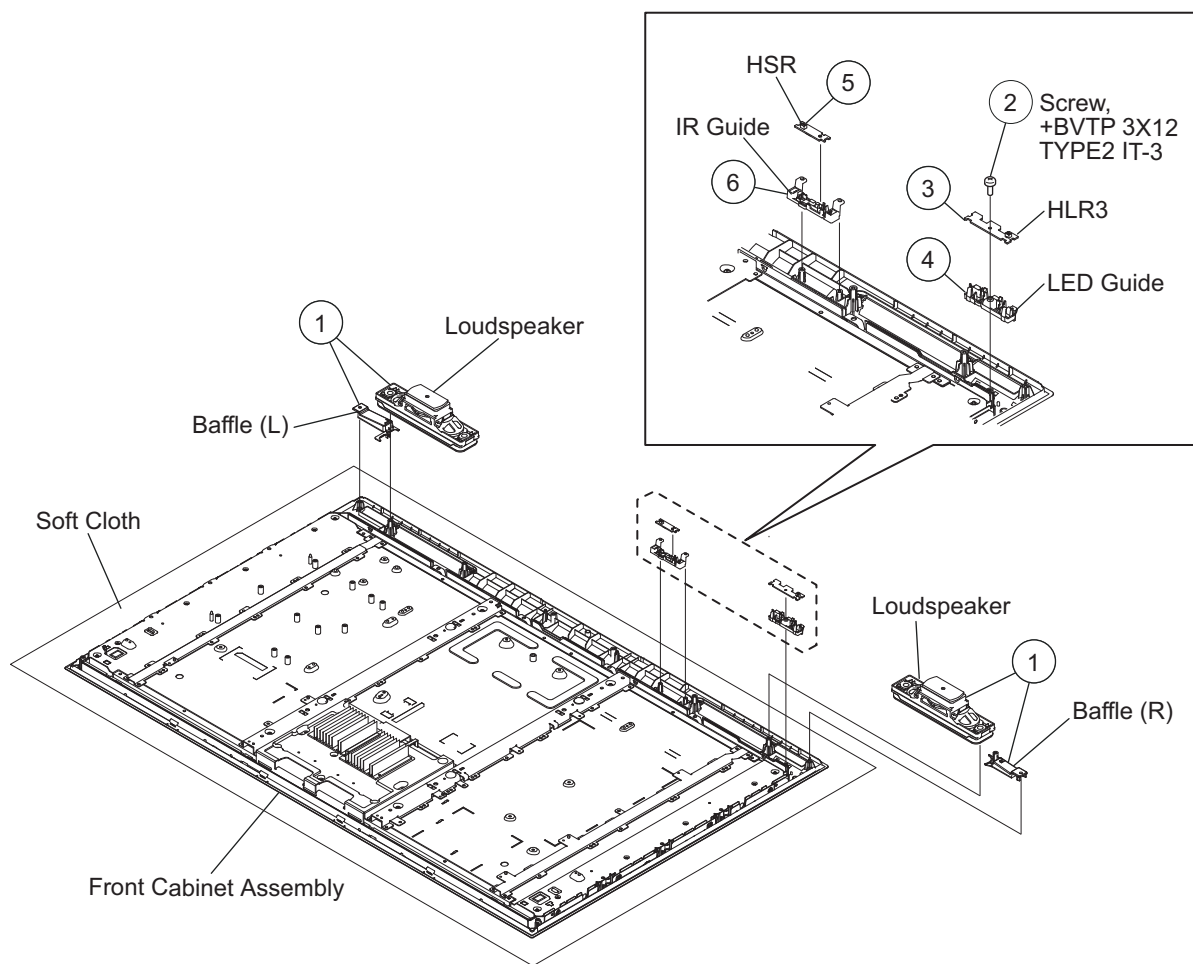
## 1-5. STRUCTURAL PARTS AND AC INLET REMOVAL

- ① Lift Top Stay Clamp then push and slide Top Stay out from Front Cabinet Assembly
- ② Rotate VESA Brackets counterclockwise and remove from Front Cabinet Assembly
- ③ Remove 1 screw from AC Inlet
- ④ Remove 1 screw from AC Inlet Bracket
- ⑤ Remove 1 screw from Bottom Frame



## 1-6. LOUDSPEAKER, UNDER BAR, IR GUIDE, LED GUIDE, HLR3 BOARD AND HSR BOARD REMOVAL

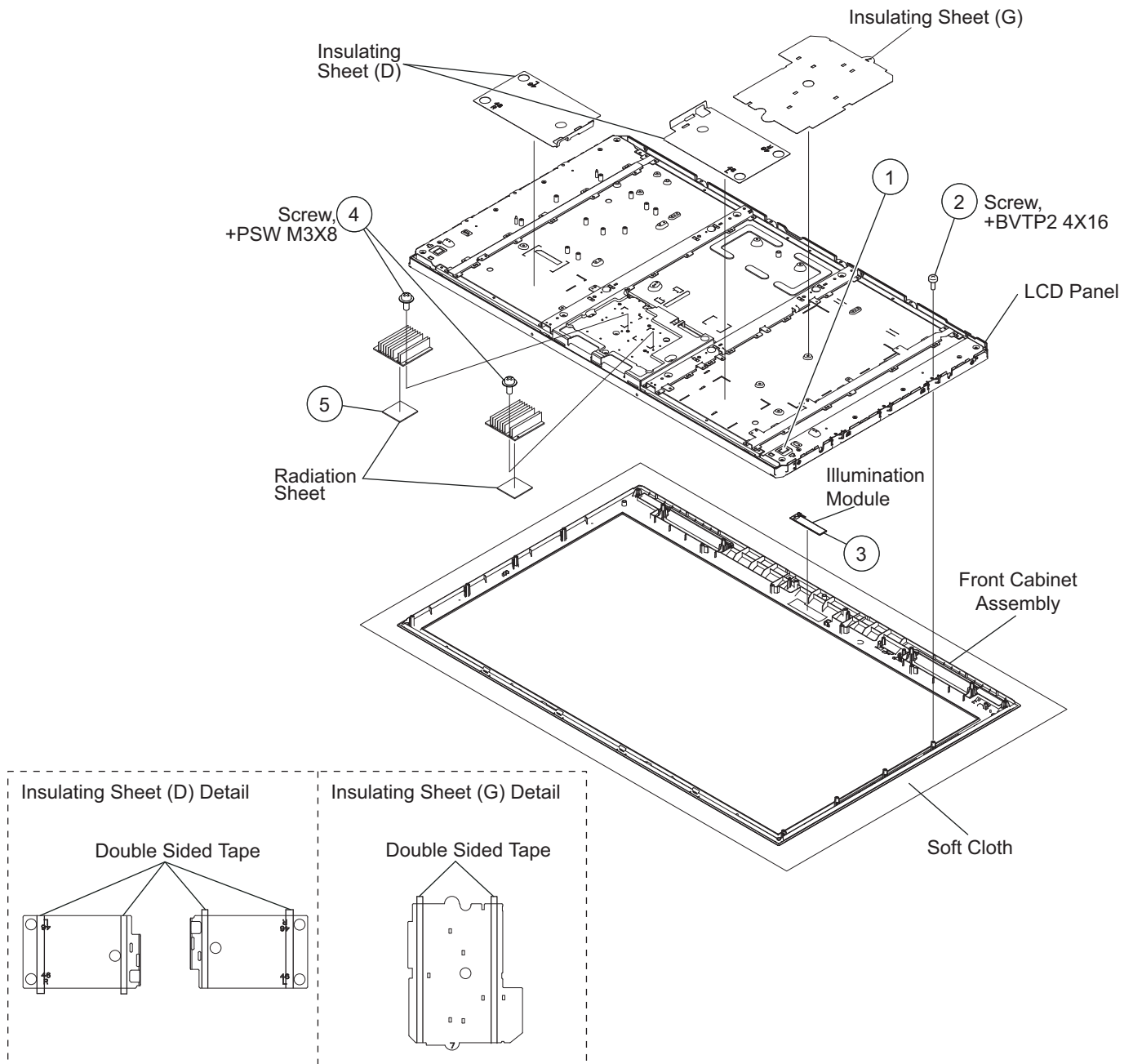
- ① Slide out both Loudspeakers and Baffles from Front Cabinet Assembly
- ② Remove 1 screw from LED Guide unit
- ③ Disconnect 1 connector from HLR3 Board and release from LED Guide
- ④ Unhook and release LED Guide from Front Cabinet Assembly
- ⑤ Disconnect 1 connector from HSR Board and release from IR Guide
- ⑥ Unhook and release IR Guide from Front Cabinet Assembly



## 1-7. LCD PANEL REMOVAL

- ① Remove LVDS cable and holder from TCON and LCD panel
- ② Remove 5 screws and release LCD panel from Front Cabinet Assembly
- ③ Disconnect 1 connector from Illumination Module and remove from Front Cabinet Assembly
- ④ Remove 4 screws and detach 2 Heat Sinks from LCD Panel
- ⑤ Gently remove Radiation Sheets

NOTE: The Radiation Sheet and Insulating Sheets are not included with the LCD Panel and must be replaced when replacing the LCD panel. For part number information, refer to the Exploded View Section of this manual.



## 1-7-1. CLEANING THE LCD PANEL

**CAUTION:** When cleaning the TV, be sure to unplug the power cord to avoid any chance of electric shock.

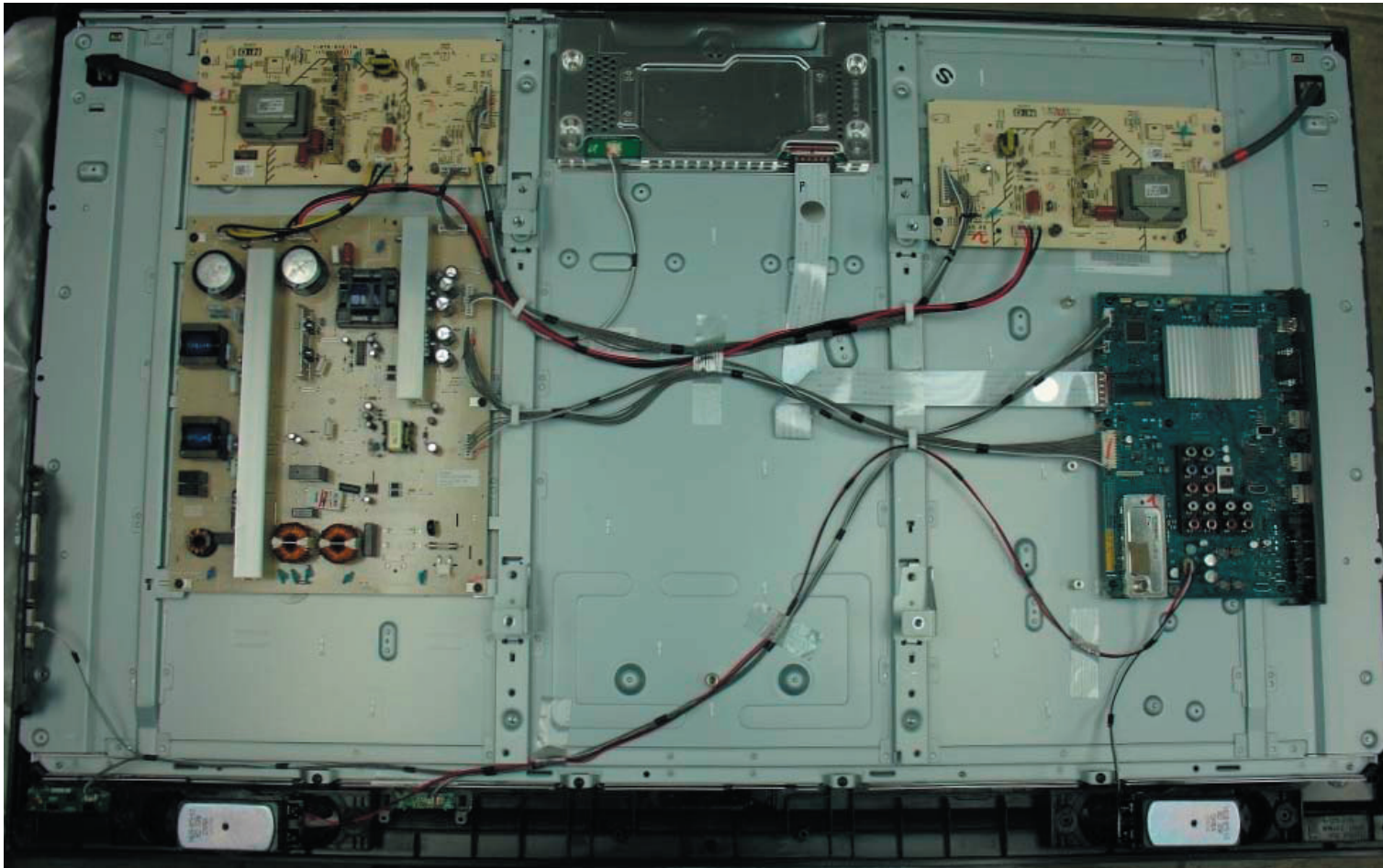
Clean the cabinet of the TV with a dry soft cloth.

Wipe the LCD screen gently with a soft cloth.

- Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
- If using a chemically pretreated cloth, please follow the instruction provided on the package.
- Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
- Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.

## WIRE DRESSING

### OVERALL ASSEMBLY



## SECTION 2: SERVICE ADJUSTMENTS

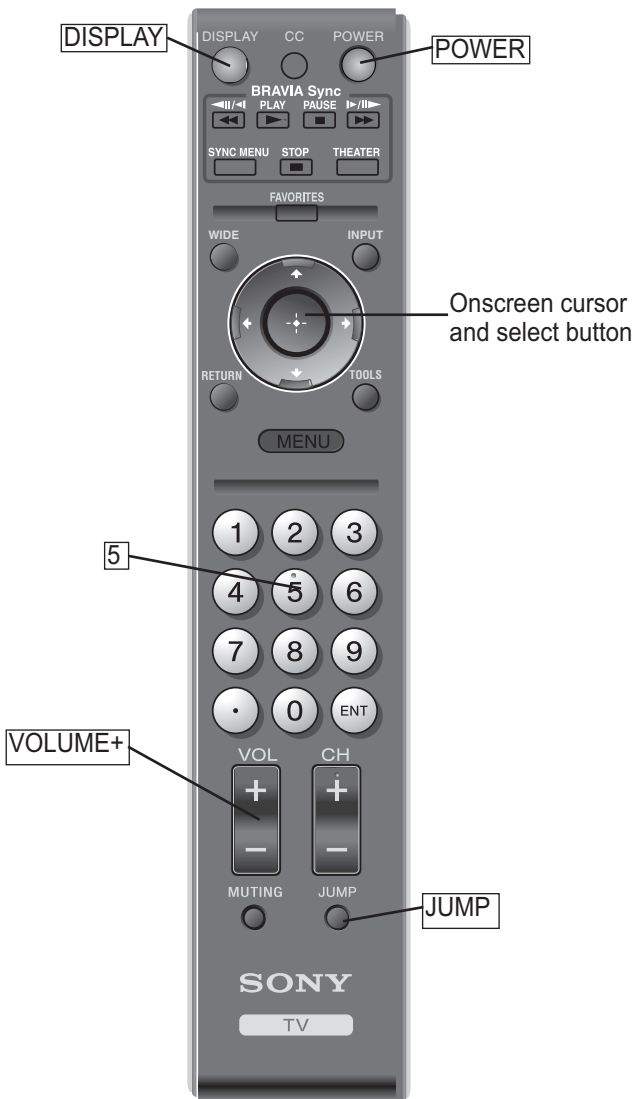
### 2-1. VIEWING SERVICE ADJUSTMENT DATA

There are no adjustments necessary for these models. All data has been set for optimal viewing for our customers. The following sections are for informational purposes only.

### 2-2. ACCESSING SERVICE MODE

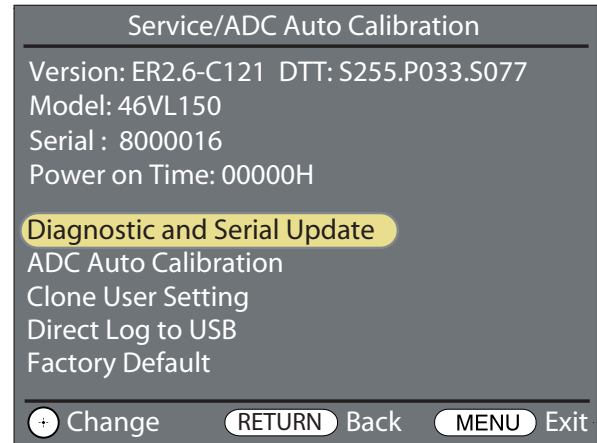
1. TV must be in standby mode. (Power off).
2. Press the following buttons on the Remote Commander within a second of each other:

**DISPLAY** → Channel **5** → Volume **+** → **POWER**.



RM-YD028

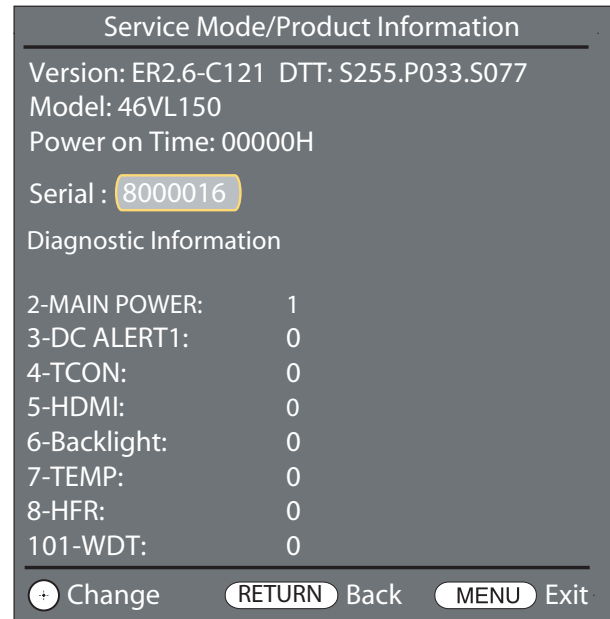
The BRAVIA logo displays momentarily, then the Service Mode list displays.



### 2-2-1. ENTERING THE SERIAL NUMBER AFTER CHANGING THE MAIN BOARD

Use the following instructions to re-enter the Serial Number of the TV after replacing the Main (BM3) Board.

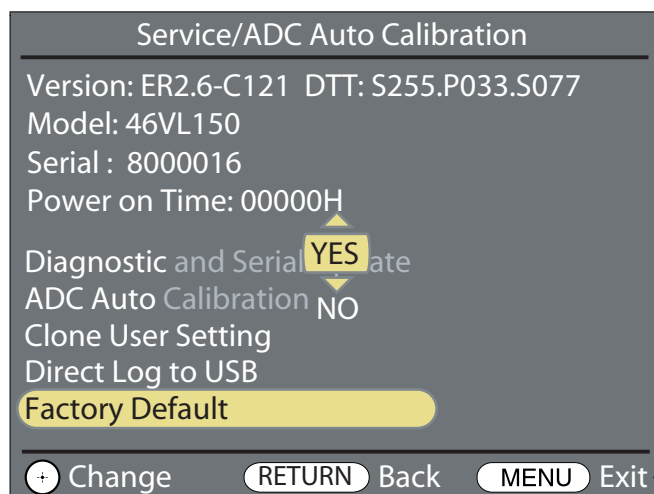
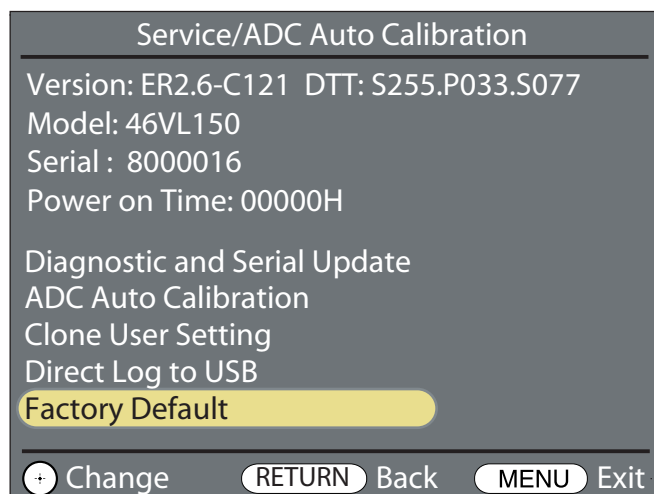
1. After accessing service mode, press **+** to display the Self Diagnostic list.




2. To change the serial number field, press **+** then using the number keys on the remote enter the Serial Number of the TV.
3. To save the Serial Number, press **+**.
4. To exit Service Mode, press **MENU**.

## 2-2-2. RESETTING TO FACTORY DEFAULTS

1. After accessing service mode, press the  button to highlight Factory Default, then press .

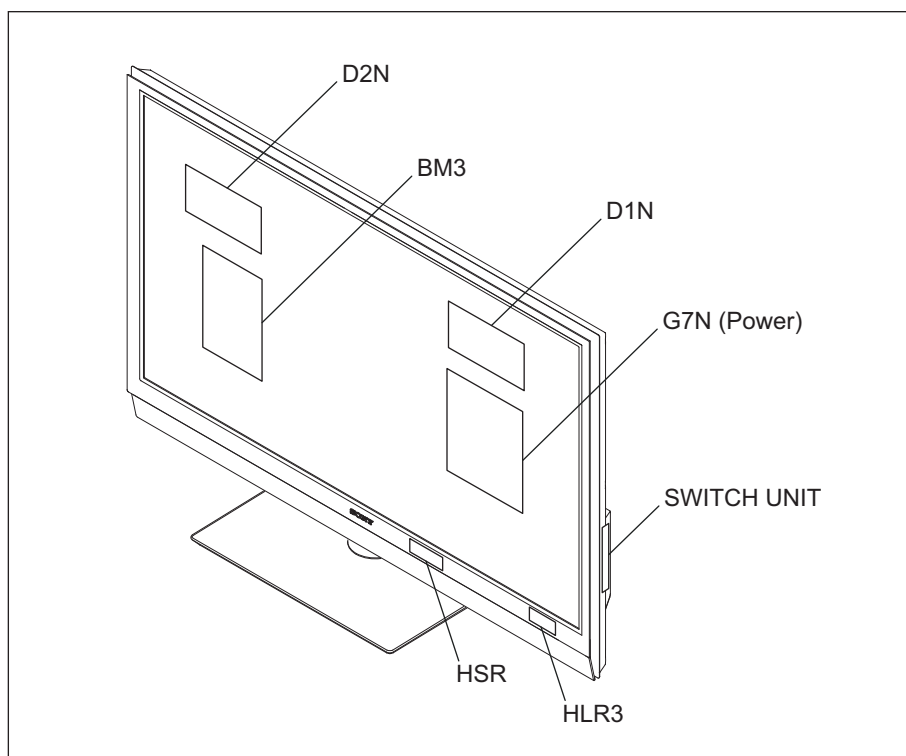


2. To reset to Factory Defaults, press  then follow the on-screen instructions.
3. After selecting the language preference the on-screen display indicates to "select the type of use for this TV." **Home must be selected for optimal picture performance in the customers home.**
4. Continue following the on-screen instructions.

**NOTE: All other Service Mode information listed, ADC Auto Calibration, Clone User Setting, and Direct Log to USB will be reviewed in the Training Manual for this model.**

## SECTION 3: DIAGRAMS

### 3-1. CIRCUIT BOARDS LOCATION



### 3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF :  $\mu\text{F}$  50VV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms.  $\text{k}\Omega=1000\Omega$ ,  $\text{M}\Omega=1000\text{k}\Omega$

Indication of resistance, which does not have one for rating electrical power, is as follows:

Pitch : 5mm

Rating electrical power :  $\frac{1}{4}\text{W}$

$\frac{1}{4}\text{W}$  in resistance,  $\frac{1}{10}\text{W}$  and  $\frac{1}{16}\text{W}$  in chip resistance.

 : nonflammable resistor

 : fusible resistor

 : internal component

 : panel designation and adjustment for repair

 : earth ground

 : earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a  $10\text{M}\Omega$  digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.


S : Measurement impossibility.

 : B+line.


 : B-line. (Actual measured value may be different).


 : signal path. (RF)


Circled numbers are waveform references.

The components identified by shading and  symbol are critical for safety. Replace only with part number specified.

The symbol  indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Le symbole  indique une fusible à action rapide. Doit être remplacé par une fusible de même valeur, comme marqué.

**NOTE:** The components identified by a red outline and a  mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.  
See Appendix A: Encryption Key Components in the back of this manual.

# REFERENCE INFORMATION

## RESISTOR

: RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

: RW NONFLAMMABLE WIREWOUND

: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: ※ ADJUSTMENT RESISTOR

## CAPACITOR

: TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

## COIL

: LF-8L MICRO INDUCTOR

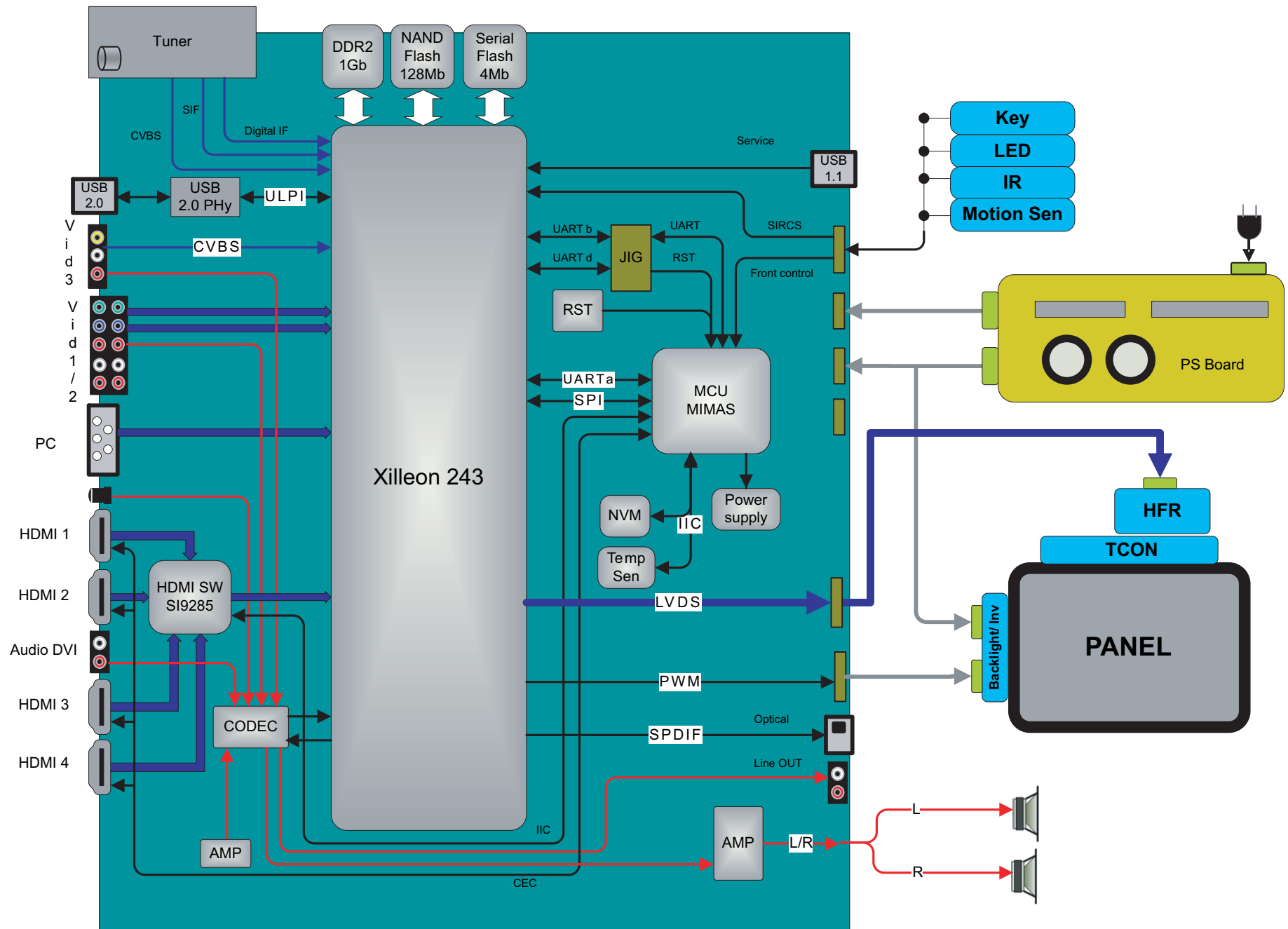
## Terminal name of semiconductors in silk screen printed circuit (※)

	Device	Printed symbol	Terminal name	Circuit
1	Transistor		Collector Base Emitter	
2	Transistor		Collector Base Emitter	
3	Diode		Cathode Anode	
4	Diode		Cathode Anode (NC)	
5	Diode		Cathode Anode (NC)	
6	Diode		Common Anode Cathode	
7	Diode		Common Anode Cathode	
8	Diode		Common Anode Anode	
9	Diode		Common Anode Anode	
10	Diode		Common Cathode Cathode	
11	Diode		Common Cathode Cathode	
12	Diode		Anode Anode Cathode Anode	
13	Transistor (FET)		Drain Source Gate	
14	Transistor (FET)		Drain Source Gate	
15	Transistor (FET)		Source Drain Gate	
16	Transistor		Emitter Collector Base	
17	Transistor		C2(B1)E1 E2(B2)C1	
18	Transistor		C1(B2)E2 E1(B1)C2	
19	Transistor		C1 B2 E2 E1 B1 C2	
20	Transistor		C1 B2 E2 E1 B1 C2	
21	Transistor		E2 B1 E1 C2 C1(B2)	
22	Transistor		(B2) B1 E1 E2 C1 C2	
23	Transistor		(B2) E2 E1 B1 C2 C1	
—	Discrete semiconductot			

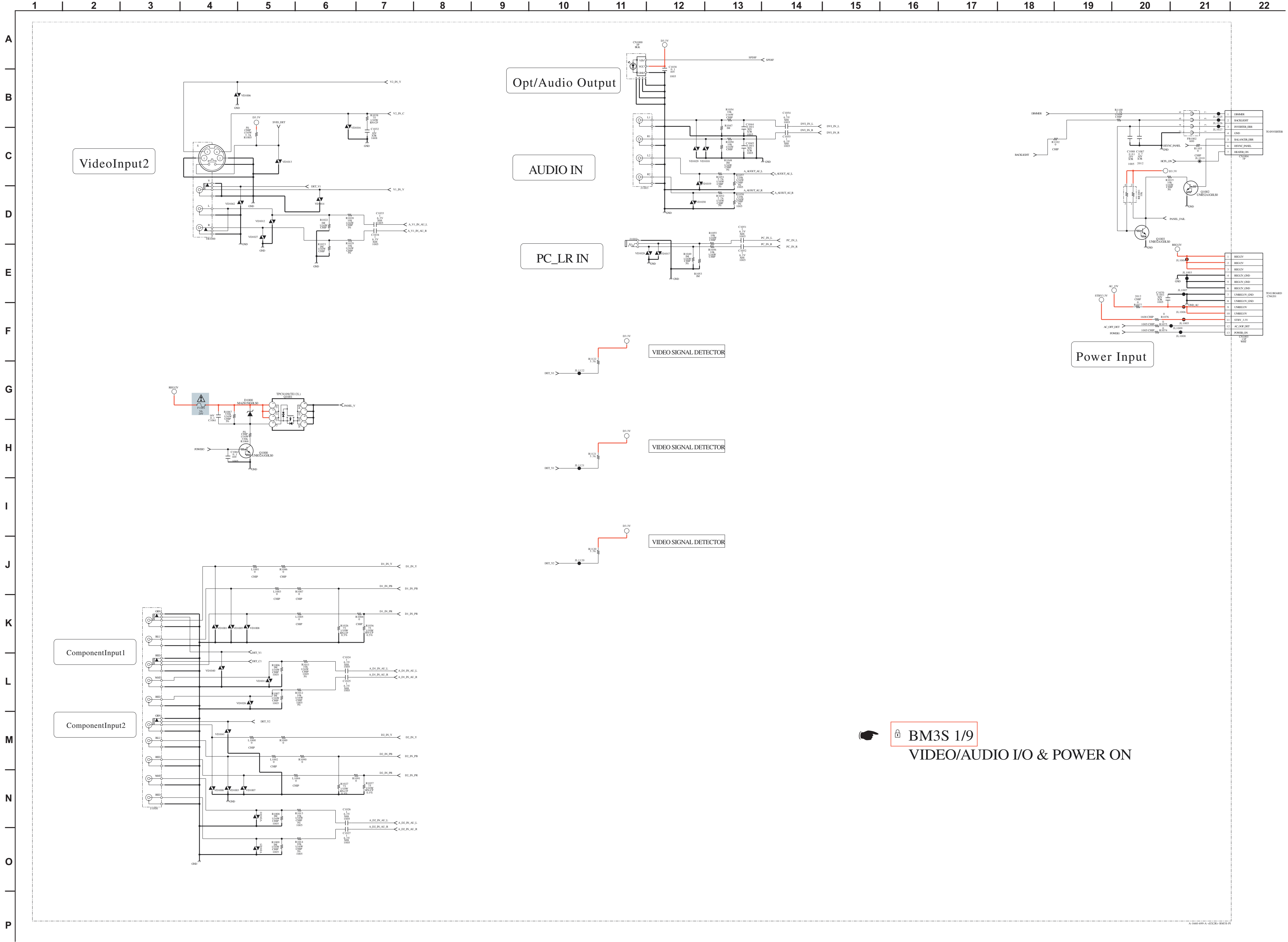
(Chip semiconductors that are not actually used are included.)

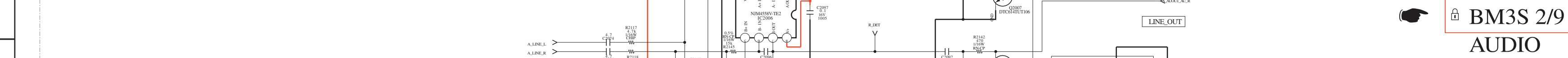
Ver.1.6

## 3-3. BLOCK DIAGRAM

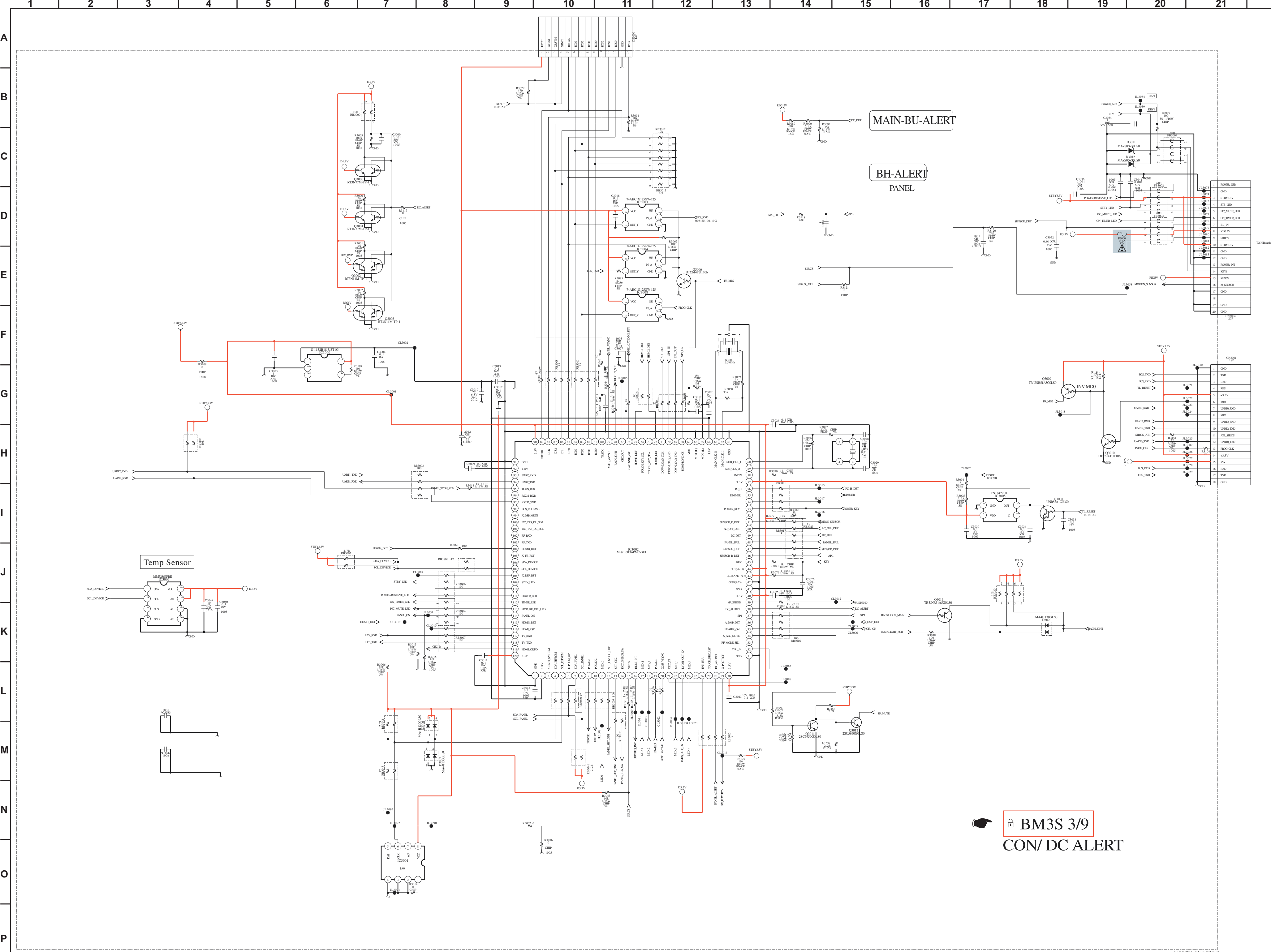


3-4. SCHEMATICS AND SUPPORTING INFORMATION  
BM3S BOARD SCHEMATIC DIAGRAM (1 OF 9)



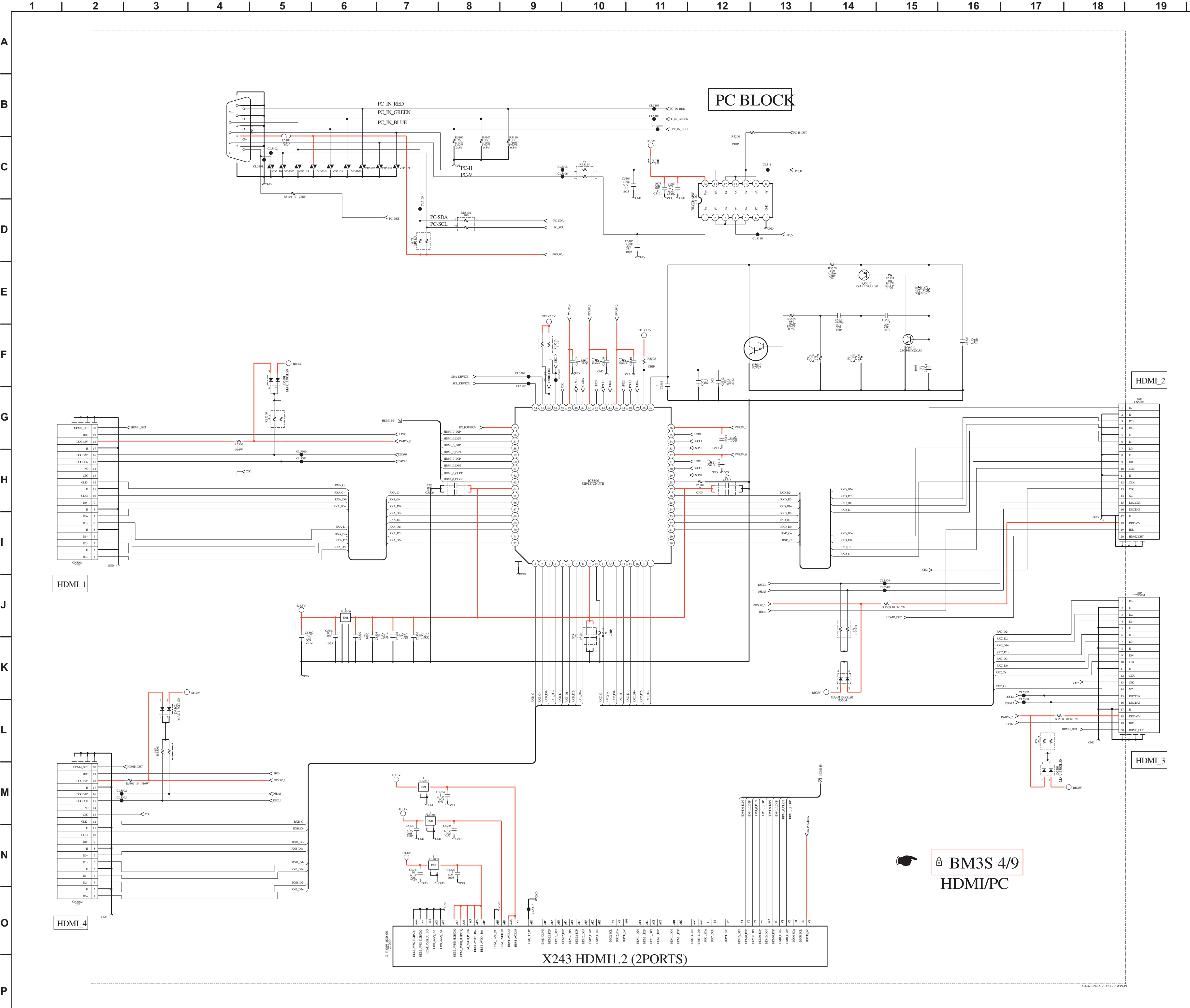


BM3S BOARD SCHEMATIC DIAGRAM (3 OF 9)



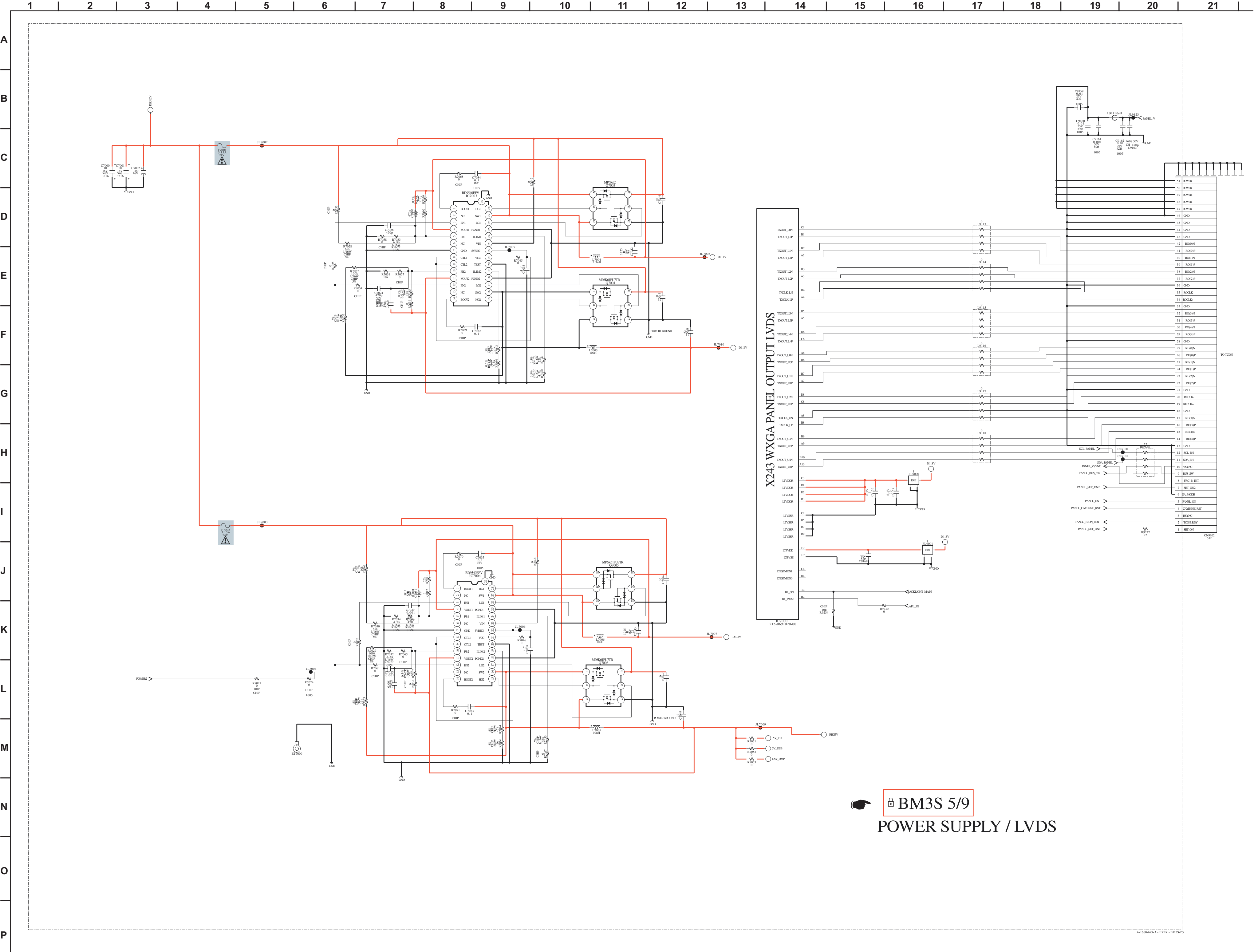
BM3S 3/9  
CON/DC ALERT

BM3S BOARD SCHEMATIC DIAGRAM (4 OF 9)



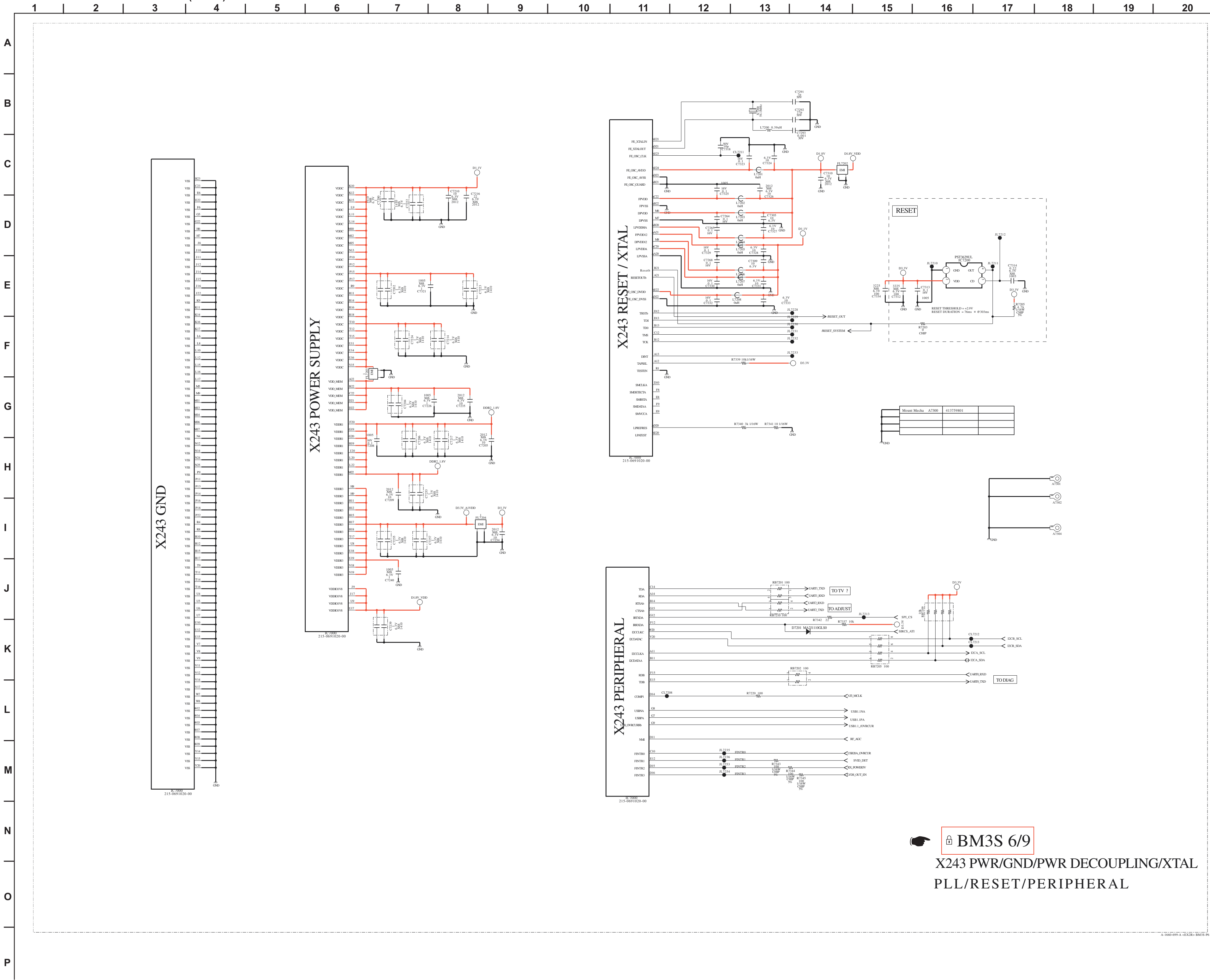
BM3S 4/9  
HDMI/PC

BM3S BOARD SCHEMATIC DIAGRAM (5 OF 9)

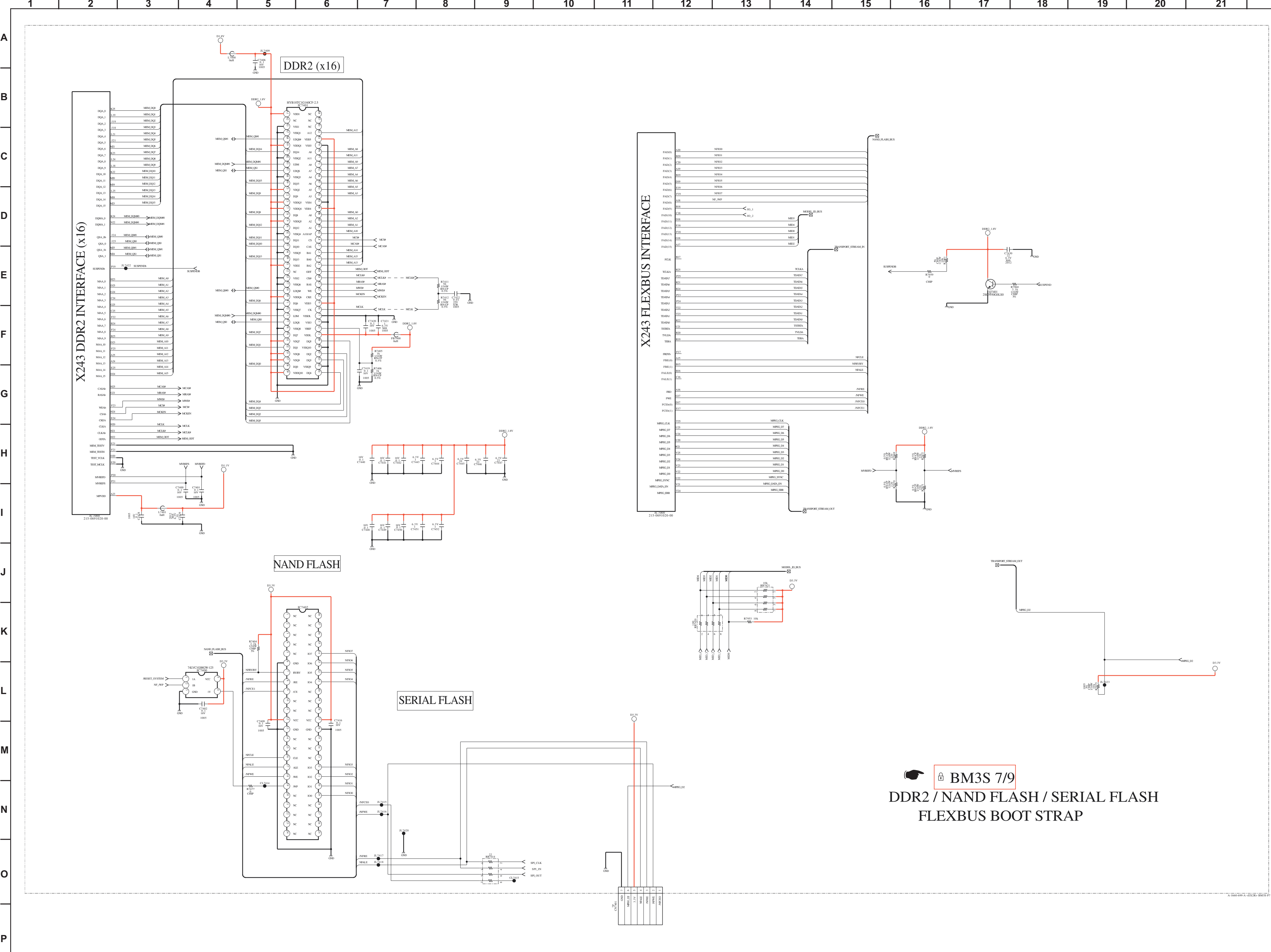


 BM3S 5/9  
POWER SUPPLY / LVDS

BM3S BOARD SCHEMATIC DIAGRAM (6 OF 9)

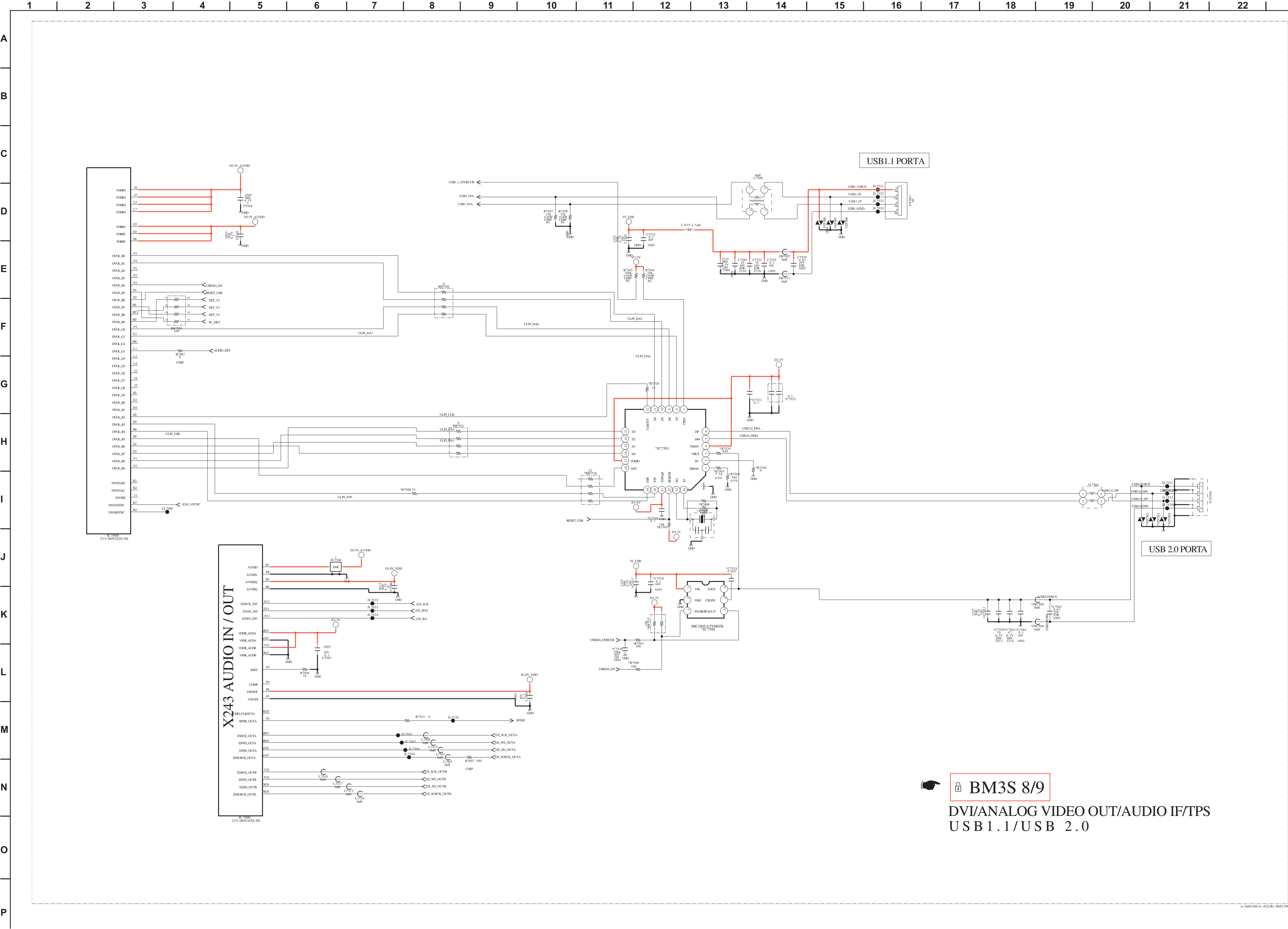


BM3S BOARD SCHEMATIC DIAGRAM (7 OF 9)



 **BM3S 7/9**  
DDR2 / NAND FLASH / SERIAL FLASH  
FLEXBUS BOOT STRAP

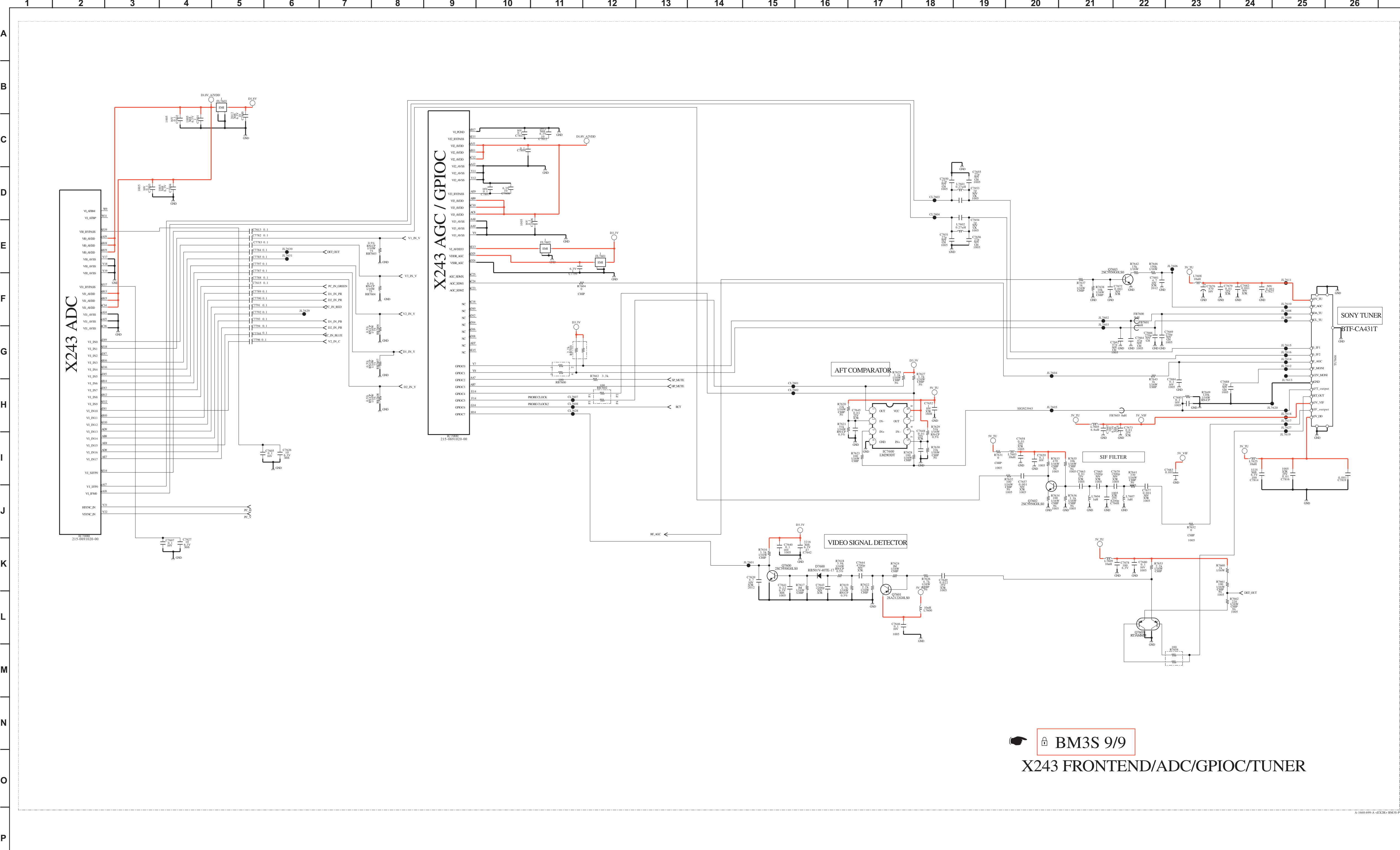
BM3S BOARD SCHEMATIC DIAGRAM (8 OF 9)



BM3S 8/9

DVI/ANALOG VIDEO OUT/AUDIO IF/TPS  
USB 1.1/USB 2.0

BM3S BOARD SCHEMATIC DIAGRAM (9 OF 9)



BM3S 9/9  
X243 FRONTEND/ADC/GPIOC/TUNER



**D1N BOARD SCHEMATIC DIAGRAM**

The schematics and PWB diagrams for this board are not available.

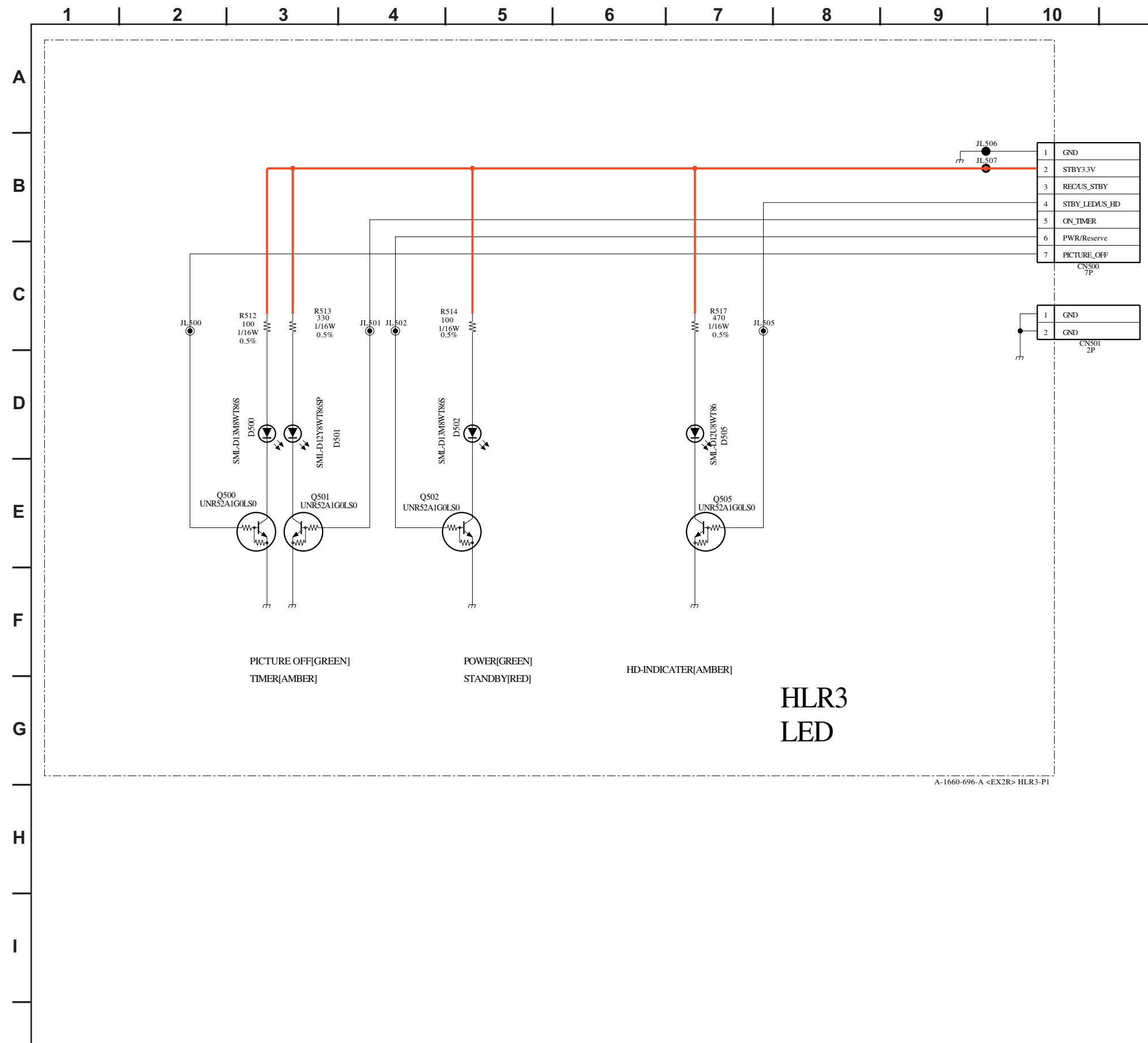
**D2N BOARD SCHEMATIC DIAGRAM**

The schematics and PWB diagrams for this board are not available.

**G7N (POWER) BOARD SCHEMATIC DIAGRAM**

The schematics and PWB diagrams for this board are not available.

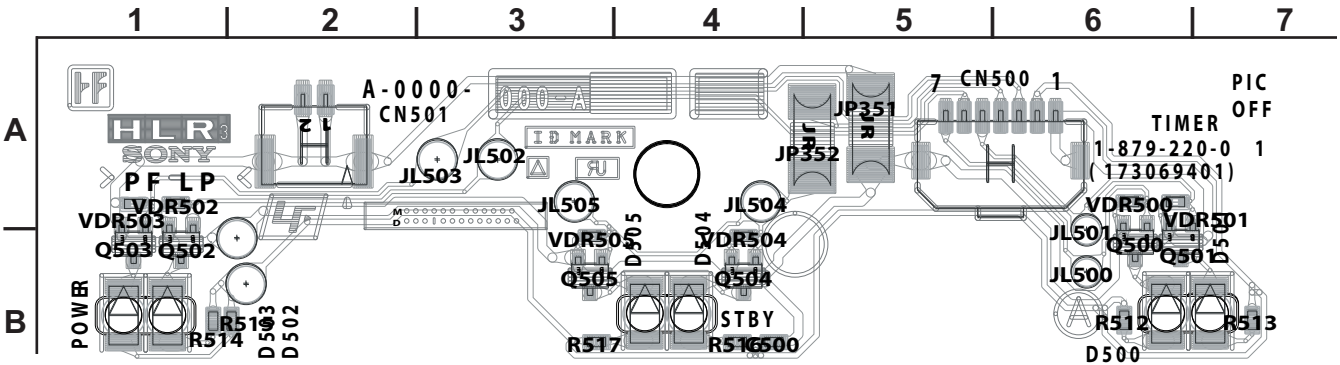
HLR3 BOARD SCHEMATIC DIAGRAM



HLR3

[LED]

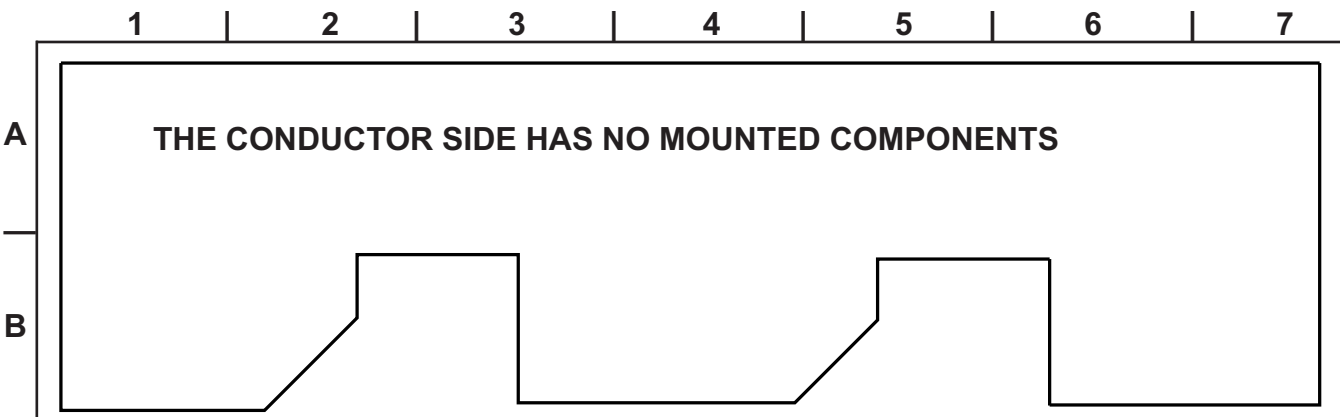
COMPONENT SIDE



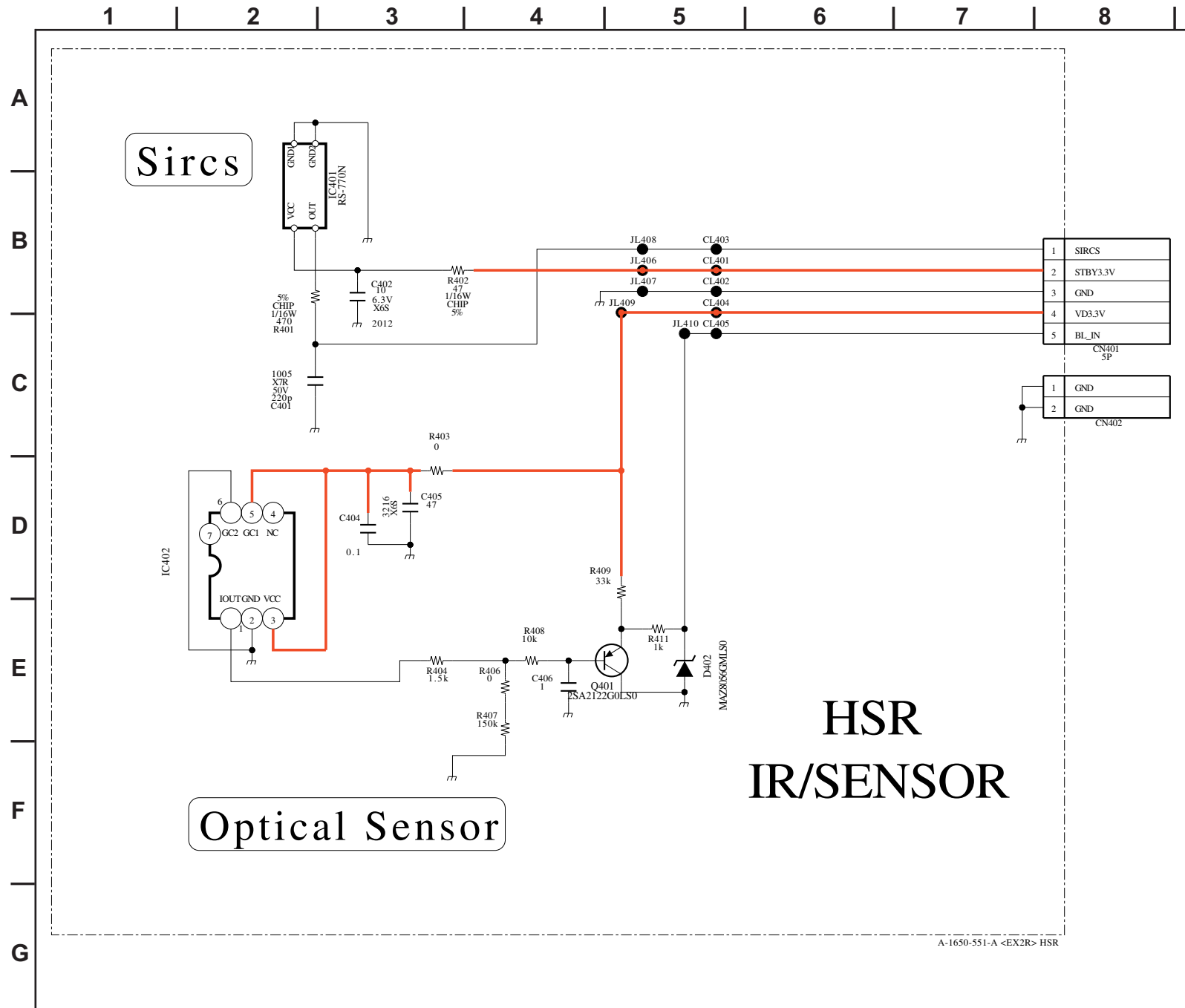
HLR3

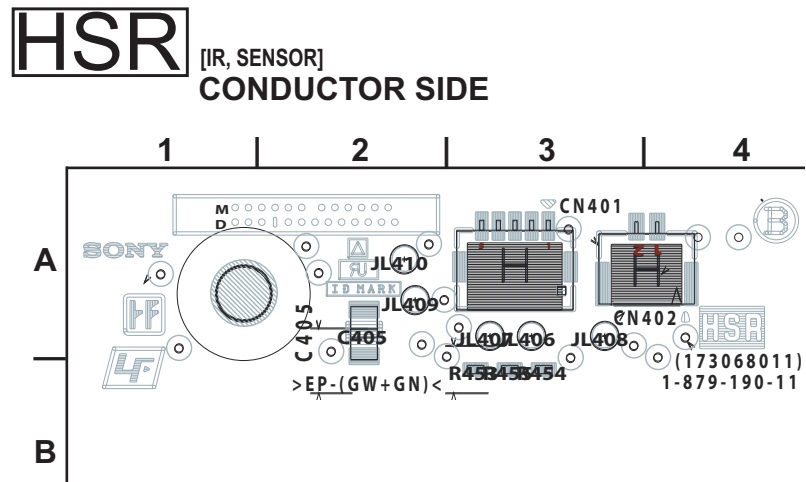
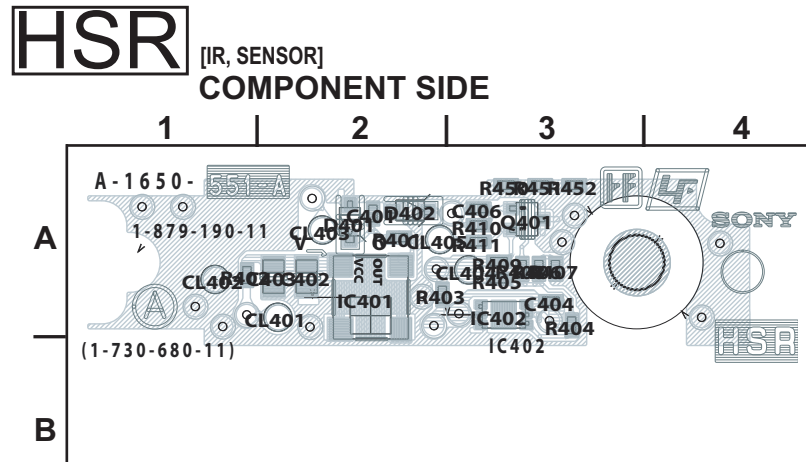
[LED]

CONDUCTOR SIDE



## HSR BOARD SCHEMATIC DIAGRAM

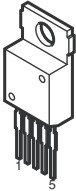




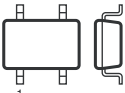
3-5. SEMICONDUCTORS

IC

BA00AST-V5

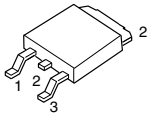


BA05FP-E2  
BA09FP-E2  
S-1111B33MC-NYSTFG  
S-80928CNMC-G8YT2G  
TC7SZ125FU(TE85R)

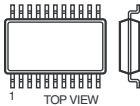


5Pin CHIP

BA18BC0FP-E2  
BA25BC0FP-E2

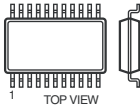


BR24L02F-WE2  
CS4335-KSZR  
FA5501N-TE1  
LM75CIMX-3  
M24128-BWMN6T(A)  
M24C02-WMN6T(B)  
NJM2521V(TE2)  
NJM3414AV(TE2)  
RC4558DR  
RC4558PWR



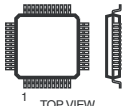
8Pin SOP

CD4052BNSR  
FMS6418AM16X



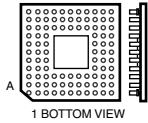
16Pin SOP

CXA2188Q-T4



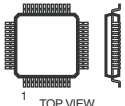
40Pin QFP

EM6A9320BI-5MG



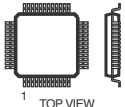
144Pin PGA

HD6433692A39FXV  
HD64F3694FXV-DA4  
TPA3004D2PHPR



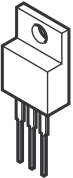
48Pin QFP

HD64F2378-12681-01

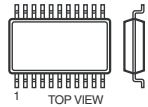


144Pin QFP

L88M05T-FA-TL



M52347FP-TE

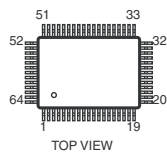


20Pin SOP

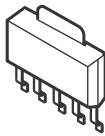
MM1431ATT



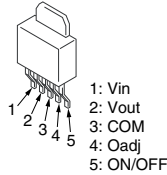
NJW1149AFH1



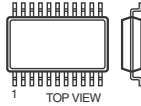
PQ1CY1032ZP



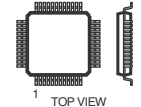
PQ1CZ41H2ZPH



RV5C387A-E2-FB

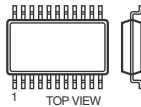


SIH9993CTG100



100Pin QFP

SN74LV132APWR  
SN74LVC14APWR



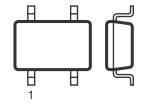
14Pin SOP

STR-A6169



8Pin DIP

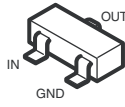
TK11819MTL



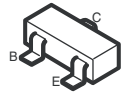
6Pin CHIP

TRANSISTOR

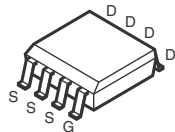
DTC114EU  
DTC114EUAFT106



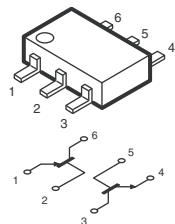
DTC114EUA-T106  
DTC115EUA-T106  
DTC144WKA-T146  
DTC314TK-T-146  
DTC323TK  
DTC323TKT146  
MUN2211T1  
MUN2212T1  
MUN5213T1  
PDTC114EK-115  
UN2211  
2PA1576R-115  
2PC4081R-115  
2PD601AR-115  
2SA1037AK-T146-QR  
2SA1037AK-T146-R  
2SA1576A-T106-QR  
2SA1774R  
2SA1774TL-QR  
2SC1623-L5L6  
2SC2412K-T-146-QR  
2SC4081-R  
2SC4081T106R  
2SC4617R  
2SC4617TL-QR  
2SD2114K  
2SD601A-Q-TX



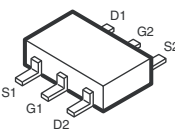
FDS6690A



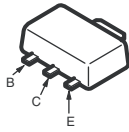
HN1B01FU-TE85R



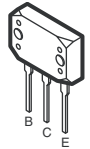
SSM6N15FU(TE85R)



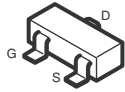
2SB1122-S  
2SB1122-ST-TD-E  
2SD1621-ST  
2SD1621ST-TD-E



2SD2114KT146

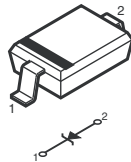


2SK2158-T2B

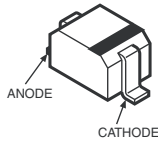


DIODE

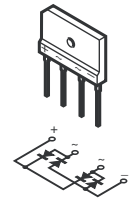
BAS316-115  
EP05FA20  
MM3Z10VT1  
MM3Z11VT1  
MM3Z13VT1  
MM3Z18VST1  
MM3Z22VT1  
MM3Z2V4T1  
MM3Z5V6ST1  
MM3Z6V2ST1  
MM3Z6V8ST1  
MM3Z8V2ST1



BAT54HT1  
DTZ10B  
HZU5.6GTRF  
MA113-(TX)  
MMDL914T1  
RD5.6SB-T1  
UDZ-TE-17-18B  
UDZ-TE-17-6.2B  
UDZ-TE-17-6.8B



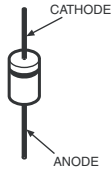
D10SBS4  
D10SBS4F  
D2SB60A-F04  
D4SB60L



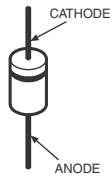
D10SC6M



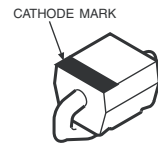
D1NL40-TA2  
D1NL40-TR2  
ERA22-08



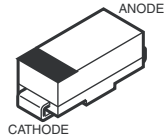
D1NS6  
D1NS6-TR  
ERA22-06AVRBT  
UF4005PKG23  
10ERB20-TB3  
1N5404TU



EC10QS-04  
EC10QS04-TE12L5



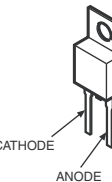
EC21QS03L-TE12L  
P6SMBJ30A-5  
PTZ-TE25-3.9B



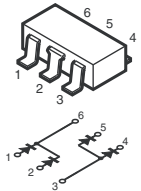
ERA22-08KFLB



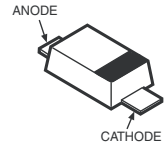
FSF05A60



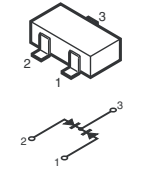
HN1D03FU-TE85L  
HN1D03FU-TE85R



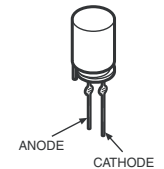
M1FM3



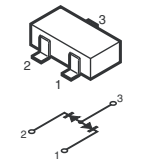
MA132WK  
MA132WK-TX  
MA151WK-TX  
1SS184



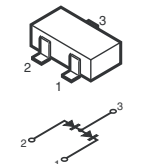
UDZSTE-1710B



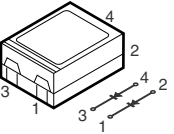
UMZ16NT106



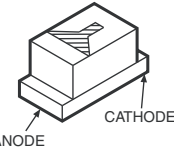
1PS302



SML-020MVT-T86



SML-310LTT86





SECTION 4: EXPLODED VIEWS


Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

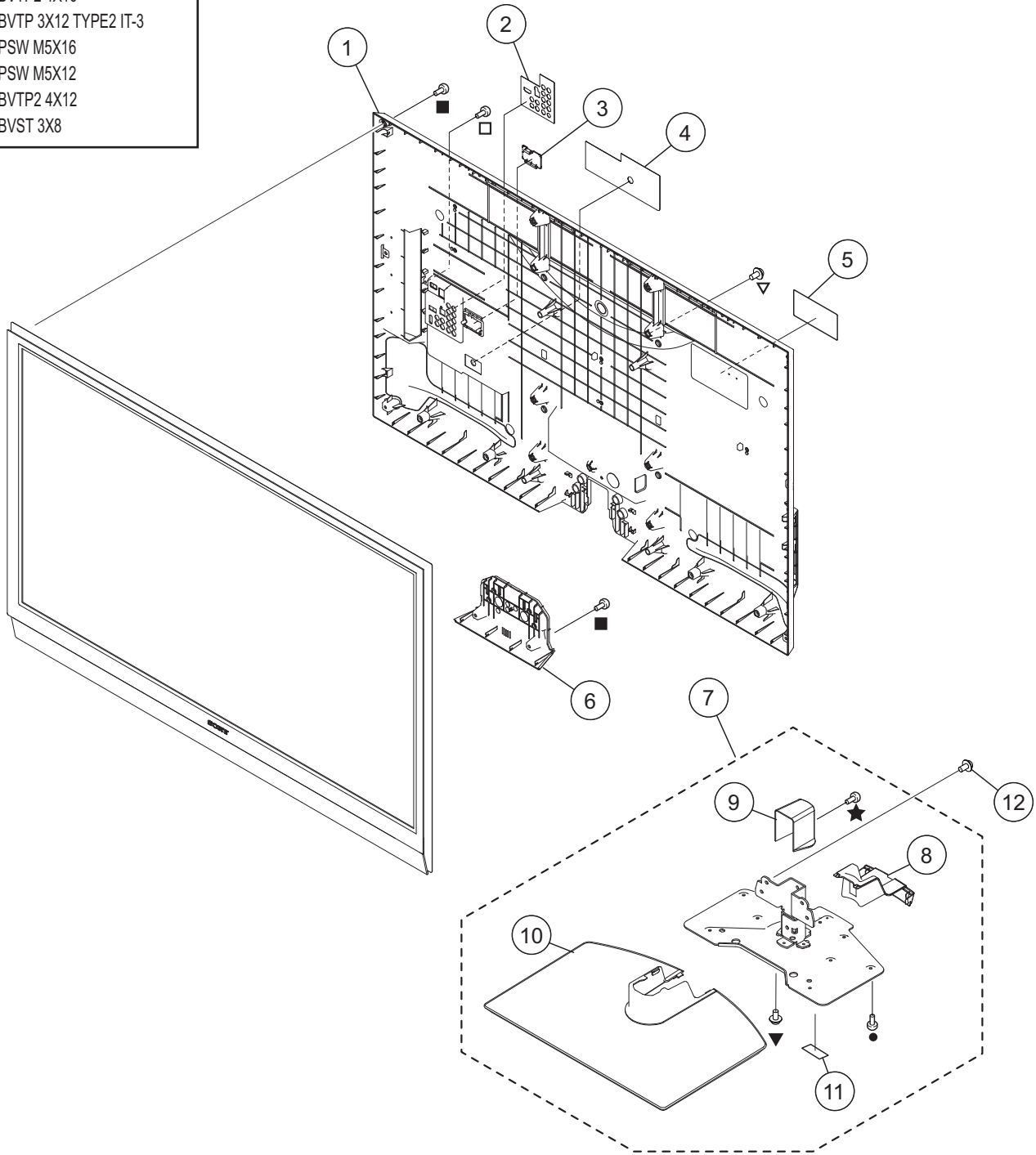
NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE: The components identified by a red outline and a  mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. See Appendix A: Encryption Key Components in the back of this manual.

4-1. REAR COVER ASSEMBLY AND TABLE-TOP STAND ASSEMBLY

(Check the [Sony Electronics Service Information](#) website for any additional service related issues for this model.)

- 2-580-640-01 SCREW, +BVTP2 4X16
- 7-685-648-79 SCREW, +BVTP 3X12 TYPE2 IT-3
- ▼ 2-580-608-01 SCREW, +PSW M5X16
- ▽ 2-580-607-01 SCREW, +PSW M5X12
- 2-580-639-01 SCREW, +BVTP2 4X12
- ★ 2-580-629-01 SCREW, +BVST 3X8



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
1	4-120-274-11	REAR COVER (46)		7	A-1727-615-A	TABLE-TOP STAND ASSY (L5A)	[8-11]
2	4-133-443-02	LABEL, REAR TERMINAL		8	4-131-870-11	COVER, USER (L3A)	
3	3-297-324-01	COVER, ECS		9	4-131-865-01	COVER, EDGE (ML)	
4	4-133-444-22	LABEL, TU (S)		10	X-2514-740-2	COVER ASSY, STAND (L5A)	
* 5	4-146-716-01	LABEL, INFORMATION		11	3-295-631-02	FOOT (15X20)	
6	4-125-232-01	COVER, UNDER (40/46)					
				12	2-580-608-01	SCREW, +PSW M5X16	
						(SCREWS TO ATTACH TABLE-TOP STAND TO LCD TV)	
						For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV.	
						CAUTION: These screws cannot be used to secure the TV to the Wall Mount Brackets.	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

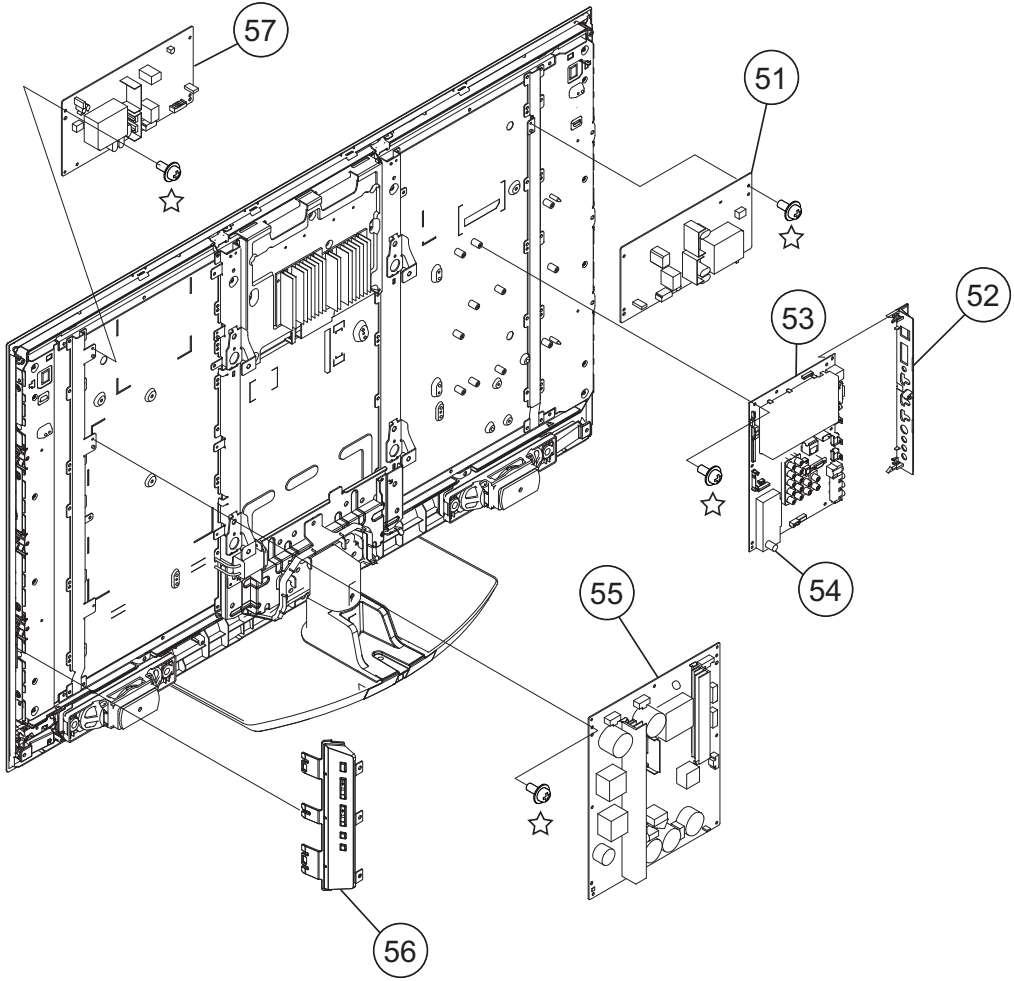
NOTE: The components identified by a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. See information on the last page of this manual.


4-2. CHASSIS


(Check the [Sony Electronics Service Information](#) website for any additional service related issues for this model.)


☆	2-580-593-01	SCREW, +PSW M3X8
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REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
51	A-1663-190-E	D2N-46 BOARD, COMPLETE		55	1-487-341-11	G7N (POWER) BOARD, COMPLETE	
52	4-132-467-01	BRACKET, SIDE JACK		56	1-487-506-11	SWITCH UNIT	
🔒 53	A-1742-744-A	BM3S BOARD, COMPLETE		57	A-1663-186-E	D1N-46 BOARD, COMPLETE	
54	8-597-686-00	TUNER, FSS-BTF-CA431T					



NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

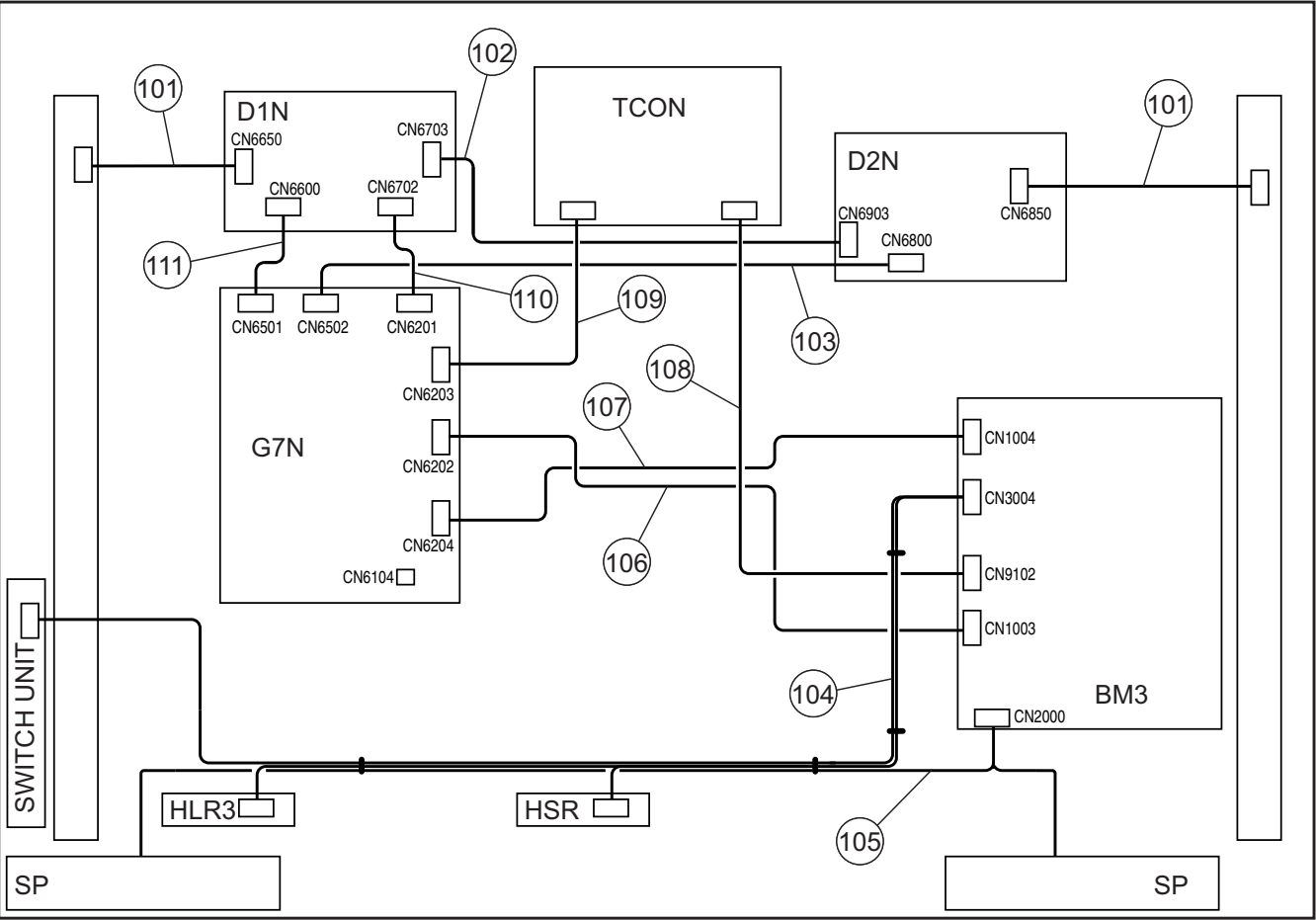
NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.


NOTE: The components identified by a  mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. See information on the last page of this manual.


4-3. CONNECTORS


(Check the [Sony Electronics Service Information](#) website for any additional service related issues for this model.)

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
101	1-836-473-11	CONNECTOR ASSY		106	1-910-058-01	CONN ASSY, 13P MM CRIMP 550	
102	1-910-054-33	CONN ASSY, 12P		107	1-910-058-06	CONN ASSY, 7P MM CRIMP 590	
103	1-836-743-11	CONNECTOR ASSY		108	1-836-921-11	(LVDS) FLEXIBLE FLAT CABLE 51P	
104	1-910-058-03	CONN ASSY, 20P MM CRIMP 1020		109	1-910-054-23	CONN ASSY, 9P	
105	1-910-058-04	CONN ASSY, 4P SPEAKER FASTON		110	1-910-054-38	CONN ASSY, 8P	
				111	1-836-741-11	CONNECTOR ASSY	



NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

NOTE: The components identified by a  mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced. See information on the last page of this manual.

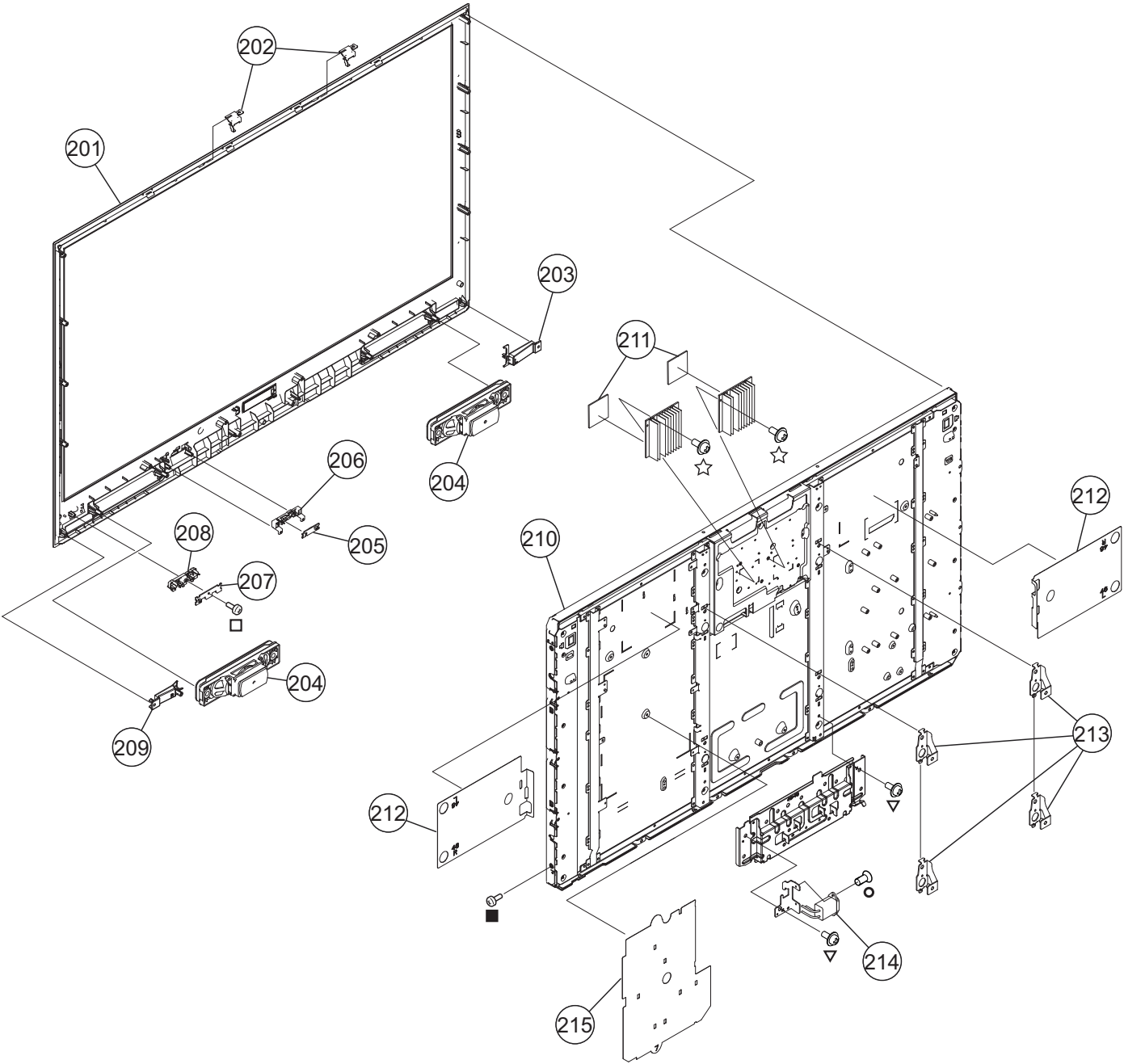
4-4. BEZEL ASSEMBLY AND LCD PANEL

(Check the [Sony Electronics Service Information](#) website for any additional service related issues for this model.)

- 2-580-640-01
- SCREW, +BVTP2 4X16
- 7-685-648-79
- SCREW, +BVTP 3X12 TYPE2 IT-3
- ▽

2-580-607-01
- SCREW, +PSW M5X12
- ☆

2-580-593-01
- SCREW, +PSW M3X8
- 2-596-649-01
- +KTT 3X10 (S TYPE)



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
201	X-2349-403-1	FRONT CABINET (46) ASSY		210	N/A	LCD PANEL (46INCH FHD TFT)	
202	4-132-480-02	STAY, TOP	*			FOR ALL LCD PANEL PART NUMBER INFORMATION	
203	X-2345-492-1	BAFFLE L (L) ASSY				REFER TO THE LCD PANELS SERVICE MANUAL	
204	1-826-875-11	LOUDSPEAKER (4.5X20CM)				(THE HEAT SINK IS NOT INCLUDED WITH THE REPLACEMENT LCD PANEL. IT MUST BE REMOVED FROM THE ORIGINAL PANEL AND REUSED)	
205	A-1735-554-A	HSR BOARD, MOUNTED					
206	4-125-237-01	GUIDE, IR		211	4-135-220-02	SHEET, RADIATION	
207	A-1660-696-A	HLR3 BOARD, MOUNTED				(MUST BE REPLACED WHEN REPLACING LCD PANEL)	
208	4-125-236-01	GUIDE, LED		212	4-144-264-01	SHEET, INSULATING (46D)	
209	X-2345-491-1	BAFFLE L (R) ASSY				(MUST BE REPLACED WHEN REPLACING LCD PANEL)	
				213	4-132-476-01	BRACKET, VESA	
				214	1-821-515-11	AC INLET	
				215	4-144-267-01	SHEET, INSULATING (G7)	
						(MUST BE REPLACED WHEN REPLACING LCD PANEL)	


#### 4-5. SCREW LEGEND


(Check the [Sony Electronics Service Information](#) website for any additional service related issues for this model.)

##### KDL-46VL150


	P/N	DESCRIPTION	REMARKS	TOTAL
■	2-580-640-01	SCREW, +BVTP2 4X16	UC-2 PNL-5 RC-10	17
□	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 IT-3	RC-2 HLR3-1	3
▼	2-580-608-01	SCREW, +PSW M5X16	STD NECK-4 TABLE-TOP STAND-4	8
▽	2-580-607-01	SCREW, +PSW M5X12	BTM FRAME-1 AC BRACKET-1 RC-9	11
●	2-580-639-01	SCREW, +BVTP2 4X12	BASE PLT-7	7
☆	2-580-593-01	SCREW, +PSW M3X8	G7N-4 BU-7 D1N-2 D2N-2 HEAT SINK-4	19
★	2-580-629-01	SCREW, +BVST 3X8	EDGE COVER-1	1
○	2-596-649-01	+KTT 3X10 (S TYPE)	AC INLET-1	1

## SECTION 5: ELECTRICAL PARTS LIST

**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.

**NOTE:** Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

\* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

**NOTE:** The components identified by a red outline and a  mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.

See Appendix A: Encryption Key Components in the back of this manual.

## RESISTORS

- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When ordering parts by reference number, please include the board name.

# BM3

REF. NO.	PART NO.	DESCRIPTION	VALUES				REF. NO.	PART NO.	DESCRIPTION	VALUES			
<div>BM3</div>													
<div><div><div></div><div>A-1742-744-A</div><div>BM3S BOARD, COMPLETE</div></div></div>													
	4-135-220-02	SHEET, RADIATION											
CAPACITOR													
C1024	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2096	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	
C1025	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2097	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1026	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2098	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1027	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2100	1-135-366-11	ELECT CHIP	100μF	20%	16V	
C1032	1-112-781-11	CERAMIC CHIP	1μF	10%	10V		C2107	1-137-942-21	ELECT CHIP	47μF	20%	25V	
							C2145	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	
C1033	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2146	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	
C1034	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2157	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1038	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C2158	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1044	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C2159	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	
C1045	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C2168	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	
							C2169	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	
C1048	1-100-769-21	ELECT CHIP	470μF	20%	16V		C2178	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1051	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2179	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1052	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2180	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	
C1054	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C2181	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	
C1055	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V								
							C2182	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	
C1061	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C2183	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	
C1062	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C2206	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	
C1070	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C2207	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	
C1087	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V		C2212	1-114-800-11	CERAMIC CHIP	0.0015μF	10%	50V	
C1088	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V								
							C2214	1-114-800-11	CERAMIC CHIP	0.0015μF	10%	50V	
C2074	1-114-870-11	CERAMIC CHIP	4.7μF	10%	16V		C2216	1-100-756-91	CERAMIC CHIP	0.047μF	10%	50V	
C2075	1-114-870-11	CERAMIC CHIP	4.7μF	10%	16V		C2217	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	
C2078	1-114-330-11	CERAMIC CHIP	2.2μF	10%	16V		C2218	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	
C2085	1-100-766-21	ELECT CHIP	47μF	20%	16V		C2236	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	
C2086	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V								
							C2237	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	
C2091	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V		C2238	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	
C2092	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V		C2239	1-125-891-11	CERAMIC CHIP	0.47μF	10%	10V	
C2094	1-162-927-11	CERAMIC CHIP	100pF	5%	50V		C2240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	
C2095	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C2241	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	
							C2242	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	
							C2243	1-164-230-11	CERAMIC CHIP	220pF	5%	50V	
							C2244	1-162-923-11	CERAMIC CHIP	47pF	5%	50V	
							C2245	1-162-925-11	CERAMIC CHIP	68pF	5%	50V	
							C2246	1-114-330-11	CERAMIC CHIP	2.2μF	10%	16V	

# BM3

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2247	1-114-868-11	CERAMIC CHIP	0.1μF	10%	50V	C2300	1-114-330-11	CERAMIC CHIP	2.2μF	10%	16V
C2248	1-114-868-11	CERAMIC CHIP	0.1μF	10%	50V	C2301	1-114-330-11	CERAMIC CHIP	2.2μF	10%	16V
C2251	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V	C2302	1-114-330-11	CERAMIC CHIP	2.2μF	10%	16V
C2252	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V	C3000	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C2255	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C3003	1-112-781-11	CERAMIC CHIP	1μF	10%	10V
C2256	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C3004	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2257	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C3007	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C2258	1-164-315-11	CERAMIC CHIP	470pF	5%	50V	C3009	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2259	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	C3010	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C2260	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	C3011	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2261	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	C3012	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2262	1-114-735-11	CERAMIC CHIP	0.68μF	10%	25V	C3013	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2263	1-114-868-11	CERAMIC CHIP	0.1μF	10%	50V	C3015	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2264	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V	C3017	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2265	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V	C3018	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2266	1-110-648-11	ELECT CHIP	220μF	20%	25V	C3019	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2267	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C3020	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2268	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C3021	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C2271	1-110-648-11	ELECT CHIP	220μF	20%	25V	C3022	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C2272	1-114-868-11	CERAMIC CHIP	0.1μF	10%	50V	C3023	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2273	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C3024	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2274	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C3025	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2275	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C3026	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C2276	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C3027	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2277	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V	C3028	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C2278	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V	C3029	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C2279	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C3030	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2280	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C3033	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2281	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C3034	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2282	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C3036	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C2283	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C3038	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2284	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C3041	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C2285	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C3044	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2286	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C3049	1-112-066-11	CERAMIC CHIP	10μF	10%	10V
C2287	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C3050	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2288	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C3051	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C2289	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C3052	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2290	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C3054	1-112-781-11	CERAMIC CHIP	1μF	10%	10V
C2291	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C3801	1-100-912-11	CERAMIC CHIP	1μF	10%	25V
C2293	1-135-366-11	ELECT CHIP	100μF	20%	16V	C3803	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2294	1-100-766-21	ELECT CHIP	47μF	20%	16V	C5101	1-112-781-11	CERAMIC CHIP	1μF	10%	10V
C2295	1-100-055-11	CERAMIC CHIP	22μF	20%	16V	C5102	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2296	1-164-938-11	CERAMIC CHIP	0.0015μF	10%	50V	C5104	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2297	1-164-938-11	CERAMIC CHIP	0.0015μF	10%	50V	C5105	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2298	1-162-927-11	CERAMIC CHIP	100pF	5%	50V	C5220	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5221	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7045	1-114-553-11	CERAMIC CHIP	10μF	10%	16V
C5224	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7046	1-114-553-11	CERAMIC CHIP	10μF	10%	16V
C5225	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7047	1-114-553-11	CERAMIC CHIP	10μF	10%	16V
C5226	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7048	1-100-055-11	CERAMIC CHIP	22μF	20%	16V
C5500	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C7049	1-100-055-11	CERAMIC CHIP	22μF	20%	16V
C5501	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7200	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5502	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7202	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5503	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7204	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5504	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7205	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C5505	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7206	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5506	1-114-354-11	CAP, CERAMIC	0.1MF X7R	(1410)		C7208	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C5507	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C7209	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C5508	1-114-354-11	CAP, CERAMIC	0.1MF X7R	(1410)		C7210	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C5509	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C7214	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5510	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C7216	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C5511	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7217	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5512	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7222	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5513	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C7223	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5514	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C7224	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5515	1-114-354-11	CAP, CERAMIC	0.1MF X7R	(1410)		C7226	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C5516	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7233	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5520	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V	C7235	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C5521	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7239	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C5522	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7240	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C5523	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7254	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7000	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C7255	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C7001	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C7257	1-114-520-11	CAP, CERAMIC	1MF X6S	(1410)	
C7002	1-135-366-11	ELECT CHIP	100μF	20%	16V	C7264	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7024	1-112-774-11	CERAMIC CHIP	470pF	10%	50V	C7265	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7025	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C7268	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7026	1-112-774-11	CERAMIC CHIP	470pF	10%	50V	C7291	1-164-847-11	CERAMIC CHIP	7pF	0.50pF	50V
C7027	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C7292	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7028	1-112-774-11	CERAMIC CHIP	470pF	10%	50V	C7293	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C7029	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C7305	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7030	1-112-774-11	CERAMIC CHIP	470pF	10%	50V	C7309	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7031	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C7310	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7032	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7312	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V
C7033	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7313	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7034	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7314	1-114-320-11	CERAMIC CHIP	0.22μF	10%	6.3V
C7035	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7318	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C7038	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C7321	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C7039	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C7323	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7042	1-100-055-11	CERAMIC CHIP	22μF	20%	16V	C7324	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7043	1-100-055-11	CERAMIC CHIP	22μF	20%	16V	C7325	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7044	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C7326	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C7327	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7539	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7328	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7557	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V
C7329	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7559	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7330	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7561	1-114-333-11	CERAMIC CHIP	47μF	10%	6.3V
C7331	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7564	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7332	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7567	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7333	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7580	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V
C7334	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V	C7585	1-112-066-11	CERAMIC CHIP	10μF	10%	10V
C7400	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7586	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7401	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7587	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7402	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7590	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7406	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7605	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7409	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7607	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7416	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7613	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7419	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7615	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7420	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7626	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7421	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7627	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C7422	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7639	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V
C7428	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7640	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7429	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7641	1-114-320-11	CERAMIC CHIP	0.22μF	10%	6.3V
C7430	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7642	1-114-333-11	CERAMIC CHIP	47μF	10%	6.3V
C7440	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7643	1-112-775-11	CERAMIC CHIP	0.0022μF	10%	50V
C7441	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7644	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V
C7442	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7645	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7443	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7646	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7444	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7648	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7445	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7649	1-112-778-11	CERAMIC CHIP	0.022μF	10%	25V
C7446	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7650	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7447	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7651	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7448	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7652	1-112-781-11	CERAMIC CHIP	1μF	10%	10V
C7449	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7653	1-164-840-11	CERAMIC CHIP	1pF	0.25pF	50V
C7450	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7654	1-164-840-11	CERAMIC CHIP	1pF	0.25pF	50V
C7451	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7655	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7452	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C7656	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7517	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V	C7657	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C7518	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7658	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7519	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7659	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C7520	1-114-871-11	CERAMIC CHIP	100μF	20%	6.3V	C7662	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C7521	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7663	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C7524	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C7664	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C7525	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)			C7665	1-114-800-11	CERAMIC CHIP	0.0015μF	10%	50V
C7530	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C7666	1-112-001-81	CERAMIC CHIP	270pF	5%	50V
C7532	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7667	1-114-183-11	ELECT CHIP	1000μF	20%	6.3V
C7533	1-112-066-11	CERAMIC CHIP	10μF	10%	10V	C7668	1-114-806-11	CERAMIC CHIP	0.0082μF	10%	25V
C7535	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7669	1-112-001-81	CERAMIC CHIP	270pF	5%	50V


NOTE: The components identified by shading and  $\triangle$  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
C7670	1-114-800-11	CERAMIC CHIP	0.0015μF 10% 50V	C7827	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C7672	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C9159	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C7673	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V	C9160	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C7676	1-100-769-21	ELECT CHIP	470μF 20% 16V	C9161	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C7677	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C9162	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C7678	1-114-871-11	CERAMIC CHIP	100μF 20% 6.3V	C9163	1-164-315-11	CERAMIC CHIP	470pF 5% 50V
C7679	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V	C9164	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
C7680	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	C9165	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
C7681	1-114-331-11	CERAMIC CHIP	4.7μF 10% 10V	C9166	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
C7682	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C9167	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V
C7683	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C9168	1-164-872-11	CERAMIC CHIP	82pF 5% 50V
C7684	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	<b>CONNECTOR</b>			
C7685	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN1003	1-822-598-11	HEADER ASSEMBLY FOR PWB	
C7688	1-164-862-11	CERAMIC CHIP	33pF 5% 50V	CN1004	1-821-134-11	HEADER ASSEMBLY FOR PWB	
C7690	1-100-769-21	ELECT CHIP	470μF 20% 16V	CN2000	1-822-550-11	HEADER ASSEMBLY FOR PWB	
C7782	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN3001	1-779-936-51	CONNECTOR, FFC/FPC	18P
C7783	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN3004	1-818-714-21	HEADER ASSEMBLY	20P
C7784	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	* CN5001	1-822-482-11	HDMI CONNECTOR	
C7785	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	* CN5002	1-822-484-11	HDMI CONNECTOR	
C7787	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	* CN5003	1-822-484-11	HDMI CONNECTOR	
C7788	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	* CN5004	1-822-484-11	HDMI CONNECTOR	
C7789	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN5101	1-822-773-11	D-SUB CONNECTOR (WITH HP	
C7790	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN7401	1-820-184-11	HEADER ASSEMBLY (PRINT PWB)	
C7791	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN7501	1-821-834-12	USB CONNECTOR	
C7792	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN7507	1-819-866-11	CONNECTOR, USB (A)	
C7793	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	CN9102	1-822-583-11	HEADER ASSEMBLY FOR PWB	
C7794	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	<b>DIODE</b>			
C7795	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D1000	6-501-774-01	DIODE	MAZ8150G0LS0
C7796	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2002	6-501-817-01	DIODE	MA2J1110GLS0
C7797	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2008	6-501-817-01	DIODE	MA2J1110GLS0
C7799	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	$\triangle$ D2014	6-501-756-01	DIODE	MAZ8091GMLS0
C7800	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V	D2017	6-502-318-01	DIODE	MA4J1130GLS0
C7801	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	D2020	6-501-732-01	DIODE	MAZ8056G0LS0
C7802	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2021	6-501-732-01	DIODE	MAZ8056G0LS0
C7803	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2022	6-501-732-01	DIODE	MAZ8056G0LS0
C7804	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	D2026	6-501-732-01	DIODE	MAZ8056G0LS0
C7806	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2027	6-501-817-01	DIODE	MA2J1110GLS0
C7807	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2028	6-501-817-01	DIODE	MA2J1110GLS0
C7808	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V	D2029	6-501-817-01	DIODE	MA2J1110GLS0
C7809	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D2031	6-501-817-01	DIODE	MA2J1110GLS0
C7811	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	D3006	6-502-318-01	DIODE	MA4J1130GLS0
C7812	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V	D3007	6-502-318-01	DIODE	MA4J1130GLS0
C7814	1-114-871-11	CERAMIC CHIP	100μF 20% 6.3V				
C7816	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V				
C7819	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V				

**NOTE:** The components identified by shading and  mark are critical for safety. Replace only with part number specified.

**NOTE:** Les composants identifiés per un trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

# BM3

REF. NO.		PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
D3011	6-501-732-01	DIODE	MAZ8056G0LS0				FL7500	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
D3012	6-501-732-01	DIODE	MAZ8056G0LS0				FL7601	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
D3020	6-502-318-01	DIODE	MA4J1130GLS0				FL7602	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
D5501	6-502-318-01	DIODE	MA4J1130GLS0									
D5502	6-502-318-01	DIODE	MA4J1130GLS0				FL7603	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
							FL9000	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
D5503	6-502-318-01	DIODE	MA4J1130GLS0				FL9001	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V
D5504	6-502-318-01	DIODE	MA4J1130GLS0									
D7201	8-719-058-24	DIODE	RB501V-40TE-17					IC				
D7600	8-719-058-24	DIODE	RB501V-40TE-17									
FUSE												
△ F1001	1-576-933-21	FUSE	5A	24V		△ IC2017	6-712-648-01	IC		TFA9810T-N1		
△ F2000	1-576-958-21	FUSE	4A	24V		IC2018	6-713-154-01	IC		AK4682EQ		
△ F3000	1-576-646-11	FUSE	0.5A	50V								
F5101	1-576-646-11	FUSE	0.5A	50V		IC2019	6-704-819-01	IC		CS4335-KSZR		
△ F7001	1-576-603-21	FUSE	3.15A	24V		IC2023	8-759-278-58	IC		NJM4558V-TE2		
△ F7002	1-576-603-21	FUSE	3.15A	24V		IC3000	6-711-047-01	IC		S-1132B18-U5T1G		
FERRITE BEAD						IC3001	6-713-963-01	IC		AT24C32CN-SH-T		
						IC3002	6-713-820-01	IC		MB91F313APMC-GE1		
FB1002	1-500-922-11	FERRITE	0μH			IC3003	6-712-399-01	IC		74AHC1G125GW-125		
FB2030	1-400-089-21	FERRITE	0μH			IC3004	6-712-399-01	IC		74AHC1G125GW-125		
FB2031	1-400-089-21	FERRITE	0μH			IC3005	6-713-333-01	IC		PST8429UL		
FB2032	1-400-089-21	FERRITE	0μH			IC3007	6-711-999-01	IC		MM3286EFBE		
FB2033	1-400-089-21	FERRITE	0μH			IC3008	6-712-399-01	IC		74AHC1G125GW-125		
FB2034	1-400-089-21	FERRITE	0μH			IC5102	6-708-132-01	IC		74LVC14APW		
FB2035	1-400-089-21	FERRITE	0μH			IC5500	6-713-843-01	IC		SII9187CNUTR		
FB3002	1-500-922-11	FERRITE	0μH			IC7000	6-713-810-01	IC		BCM35243KFEB1G		
FB3003	1-500-922-11	FERRITE	0μH			IC7003	6-713-863-01	IC		BD9540EFV-E2		
FB3004	1-500-922-11	FERRITE	0μH			IC7004	6-713-863-01	IC		BD9540EFV-E2		
FB7400	1-400-591-22	FERRITE	0μH			IC7200	6-703-175-01	IC		PST3629UL		
FB7507	1-400-089-21	FERRITE	0μH			IC7400	6-710-369-01	IC		74LVC1G08GW-125		
FB7508	1-400-089-21	FERRITE	0μH			IC7401	6-714-088-01	IC		NT5TU64M16DG-BE		
FB7509	1-400-089-21	FERRITE	0μH			IC7402	6-709-585-01	IC		K9F5608U0D-PIB0T		
FB7512	1-400-089-21	FERRITE	0μH			IC7501	6-713-928-01	IC		USX2030C-CP-TR		
FB7600	1-400-834-11	FERRITE	0μH			IC7502	6-710-624-01	IC		TPS2051BDRG4		
FB7601	1-400-834-11	FERRITE	0μH			IC7506	6-711-288-01	IC		MIC2005-0.5YM6TR		
FB7603	1-400-834-11	FERRITE	0μH			IC7600	6-703-708-01	IC		LM2903DT		
FILTER						JACK						
FL5006	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V	J1000	1-821-880-21	PHONO JACK		10P		
FL5007	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V	J1003	1-822-518-11	PHONO JACK		4P		
FL5008	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V							
FL5500	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V							
FL7202	1-234-939-21	FILTER, EMI REMOVAL (SMD)										
FL7203	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V							
FL7204	1-114-175-21	CERAMIC CHIP	1μF	20%	6.3V							

**BM3**

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>COIL</u>						L7605	1-469-554-21	INDUCTOR	6.8μH
L1000	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L7607	1-412-979-21	INDUCTOR	1μH
L1001	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L7608	1-469-555-21	INDUCTOR	10μH
L1002	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L7609	1-469-555-21	INDUCTOR	10μH
L1003	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L7625	1-469-555-21	INDUCTOR	10μH
L1004	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L9111	1-481-515-11	FERRITE	0μH
L1005	1-211-969-11	METAL CHIP	10	0.50%	1/10W	L9113	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2015	1-469-555-21	INDUCTOR	10μH			L9114	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2016	1-457-509-11	INDUCTOR	10μH			L9115	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2018	1-457-756-21	INDUCTOR	22μH			L9116	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2019	1-457-756-21	INDUCTOR	22μH			L9117	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2030	1-457-756-21	INDUCTOR	22μH			L9118	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
L2031	1-457-756-21	INDUCTOR	22μH			<u>TRANSISTOR</u>			
L2033	1-469-555-21	INDUCTOR	10μH			Q1000	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L2035	1-469-555-21	INDUCTOR	10μH			Q1001	6-550-369-01	TRANSISTOR	TPC8109(TE12L)
L5101	1-481-464-11	FERRITE	0μH			Q1002	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7003	1-457-455-11	INDUCTOR	10μH			Q1003	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7004	1-400-193-11	INDUCTOR	3.3μH			Q2006	6-551-776-01	TRANSISTOR	2SC5950G0LS0
L7005	1-457-455-11	INDUCTOR	10μH			Q2007	6-551-364-01	TRANSISTOR	DTC614TUT106
L7006	1-457-455-11	INDUCTOR	10μH			Q2008	6-551-364-01	TRANSISTOR	DTC614TUT106
L7201	1-481-464-11	FERRITE	0μH			Q2009	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7202	1-481-464-11	FERRITE	0μH			Q2010	6-551-775-01	TRANSISTOR	2SA2122G0LS0
L7203	1-481-464-11	FERRITE	0μH			Q2012	6-551-271-01	TRANSISTOR	RT3AMMM
L7204	1-481-464-11	FERRITE	0μH			Q2013	6-551-271-01	TRANSISTOR	RT3AMMM
L7205	1-481-464-11	FERRITE	0μH			Q2016	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7206	1-481-464-11	FERRITE	0μH			Q2017	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7207	1-481-464-11	FERRITE	0μH			Q2018	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7208	1-481-464-11	FERRITE	0μH			Q2026	6-551-776-01	TRANSISTOR	2SC5950G0LS0
L7400	1-481-516-11	FERRITE	0μH			Q3000	6-551-551-01	TRANSISTOR	RT3N77M-TP-1
L7401	1-481-464-11	FERRITE	0μH			Q3001	6-551-551-01	TRANSISTOR	RT3N77M-TP-1
L7500	1-456-984-11	INDUCTOR	0μH			Q3002	6-551-690-01	TRANSISTOR	RT3N11M-TP-1
L7501	1-481-464-11	FERRITE	0μH			Q3003	6-551-690-01	TRANSISTOR	RT3N11M-TP-1
L7504	1-400-284-21	INDUCTOR	0μH			Q3006	6-551-364-01	TRANSISTOR	DTC614TUT106
L7505	1-481-464-11	FERRITE	0μH			Q3008	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
L7508	1-481-464-11	FERRITE	0μH			Q3009	6-551-824-01	TRANSISTOR	UNR51A5G0LS0
L7512	1-481-464-11	FERRITE	0μH			Q3010	6-551-364-01	TRANSISTOR	DTC614TUT106
L7513	1-481-464-11	FERRITE	0μH			Q3011	6-551-776-01	TRANSISTOR	2SC5950G0LS0
L7516	1-481-464-11	FERRITE	0μH			Q3012	6-551-776-01	TRANSISTOR	2SC5950G0LS0
L7517	1-481-464-11	FERRITE	0μH			Q3013	6-551-824-01	TRANSISTOR	UNR51A5G0LS0
L7518	1-481-464-11	FERRITE	0μH			Q5010	6-552-252-01	TRANSISTOR	BCV27
L7600	1-469-555-21	INDUCTOR	10μH			Q5012	6-551-775-01	TRANSISTOR	2SA2122G0LS0
L7601	1-412-972-31	INDUCTOR	0.27μH			Q5013	6-551-776-01	TRANSISTOR	2SC5950G0LS0
L7602	1-412-972-31	INDUCTOR	0.27μH			Q7003	6-552-238-01	TRANSISTOR	MP6K62TR
L7603	1-469-555-21	INDUCTOR	10μH						
L7604	1-412-979-21	INDUCTOR	1μH						

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
Q7004	6-552-212-01	TRANSISTOR	MP6K61FU7TR			R1076	1-216-864-11	SHORT CHIP			
Q7005	6-552-212-01	TRANSISTOR	MP6K61FU7TR			R1077	1-216-295-91	SHORT CHIP			
Q7006	6-552-212-01	TRANSISTOR	MP6K61FU7TR			R1086	1-218-990-81	SHORT CHIP			
Q7401	6-551-776-01	TRANSISTOR	2SC5950G0LS0			R1087	1-218-990-81	SHORT CHIP			
Q7600	6-551-776-01	TRANSISTOR	2SC5950G0LS0			R1088	1-218-990-81	SHORT CHIP			
Q7601	6-551-775-01	TRANSISTOR	2SA2122G0LS0			R1089	1-218-990-81	SHORT CHIP			
Q7602	6-551-776-01	TRANSISTOR	2SC5950G0LS0			R1090	1-218-990-81	SHORT CHIP			
Q7603	6-551-776-01	TRANSISTOR	2SC5950G0LS0			R1091	1-218-990-81	SHORT CHIP			
Q7605	6-551-271-01	TRANSISTOR	RT3AMMM			R1100	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
						R1102	1-218-990-81	SHORT CHIP			
<b>RESISTOR</b>											
R1005	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R1103	1-218-990-81	SHORT CHIP			
R1006	1-218-989-11	METAL CHIP	1M	5%	1/16W	R1120	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R1007	1-218-989-11	METAL CHIP	1M	5%	1/16W	R1121	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R1008	1-218-989-11	METAL CHIP	1M	5%	1/16W	R1122	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R1009	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2117	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R1011	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2118	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R1012	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2121	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R1013	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2122	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R1014	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2129	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R1015	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2133	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R1022	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2138	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1023	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2139	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1026	1-211-990-11	METAL CHIP	75	0.50%	1/10W	R2141	1-208-675-11	METAL CHIP	470	0.50%	1/16W
R1027	1-211-990-11	METAL CHIP	75	0.50%	1/10W	R2142	1-208-675-11	METAL CHIP	470	0.50%	1/16W
R1028	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2143	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R1029	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2145	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R1036	1-211-990-11	METAL CHIP	75	0.50%	1/10W	R2149	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1037	1-211-990-11	METAL CHIP	75	0.50%	1/10W	R2150	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1038	1-211-990-11	METAL CHIP	75	0.50%	1/10W	R2151	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R1047	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2153	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1048	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2161	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1049	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2163	1-218-990-81	SHORT CHIP			
R1050	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2178	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1051	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R2198	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R1052	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R2201	1-218-990-81	SHORT CHIP			
R1053	1-218-989-11	METAL CHIP	1M	5%	1/16W	R2202	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1054	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2204	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1055	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2205	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1056	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2210	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R1057	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2211	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R1058	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2228	1-469-083-21	FERRITE	0μH		
R1067	1-218-983-11	METAL CHIP	330K	5%	1/16W	R2229	1-469-083-21	FERRITE	0μH		
R1068	1-218-983-11	METAL CHIP	330K	5%	1/16W	R2232	1-469-083-21	FERRITE	0μH		
R1074	1-218-990-81	SHORT CHIP				R2233	1-469-083-21	FERRITE	0μH		
R1075	1-218-990-81	SHORT CHIP				R2250	1-218-990-81	SHORT CHIP			

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2264	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2388	1-218-990-81	SHORT CHIP			
R2267	1-218-950-11	METAL CHIP	560	5%	1/16W	R2389	1-218-990-81	SHORT CHIP			
R2268	1-218-950-11	METAL CHIP	560	5%	1/16W	R2392	1-218-990-81	SHORT CHIP			
R2272	1-218-941-81	METAL CHIP	100	5%	1/16W	R2395	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2276	1-218-973-11	METAL CHIP	47K	5%	1/16W	R2396	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2281	1-218-990-81	SHORT CHIP				R2398	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R2285	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W	R2401	1-218-990-81	SHORT CHIP			
R2286	1-218-990-81	SHORT CHIP				R2402	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2290	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2403	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2291	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2404	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2292	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2405	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R2293	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2406	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R2323	1-218-977-11	METAL CHIP	100K	5%	1/16W	R2407	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R2326	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2408	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2332	1-218-973-11	METAL CHIP	47K	5%	1/16W	R2409	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R2344	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2410	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2345	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2411	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2346	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2412	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R2348	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2413	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2352	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2414	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2353	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2415	1-218-982-11	METAL CHIP	270K	5%	1/16W
R2354	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2416	1-218-982-11	METAL CHIP	270K	5%	1/16W
R2355	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2417	1-218-990-81	SHORT CHIP			
R2356	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2418	1-218-990-81	SHORT CHIP			
R2357	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2419	1-208-935-11	METAL CHIP	100K	0.50%	1/16W
R2358	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2420	1-218-933-11	METAL CHIP	22	5%	1/16W
R2359	1-218-981-91	METAL CHIP	220K	5%	1/16W	R2421	1-218-990-81	SHORT CHIP			
R2368	1-211-969-11	METAL CHIP	10	0.50%	1/10W	R2422	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W
R2369	1-211-969-11	METAL CHIP	10	0.50%	1/10W	R2431	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2370	1-211-969-11	METAL CHIP	10	0.50%	1/10W	R3000	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2372	1-211-969-11	METAL CHIP	10	0.50%	1/10W	R3001	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2374	1-211-969-11	METAL CHIP	10	0.50%	1/10W	R3002	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2375	1-218-941-81	METAL CHIP	100	5%	1/16W	R3003	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2376	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3006	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2377	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3013	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2378	1-208-871-81	METAL CHIP	220	0.50%	1/16W	R3014	1-218-990-81	SHORT CHIP			
R2379	1-208-871-81	METAL CHIP	220	0.50%	1/16W	R3015	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2380	1-218-941-81	METAL CHIP	100	5%	1/16W	R3018	1-218-953-11	METAL CHIP	1K	5%	1/16W
R2381	1-218-941-81	METAL CHIP	100	5%	1/16W	R3029	1-218-949-11	METAL CHIP	470	5%	1/16W
R2382	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3030	1-218-937-11	METAL CHIP	47	5%	1/16W
R2383	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3032	1-218-990-81	SHORT CHIP			
R2384	1-218-990-81	SHORT CHIP				R3036	1-218-990-81	SHORT CHIP			
R2385	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W	R3038	1-218-941-81	METAL CHIP	100	5%	1/16W
R2386	1-218-990-81	SHORT CHIP				R3042	1-218-937-11	METAL CHIP	47	5%	1/16W
R2387	1-218-990-81	SHORT CHIP				R3043	1-218-965-11	METAL CHIP	10K	5%	1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3044	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5105	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R3045	1-218-949-11	METAL CHIP	470	5%	1/16W	R5107	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R3046	1-218-941-81	METAL CHIP	100	5%	1/16W	R5110	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R3051	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5200	1-218-990-81	SHORT CHIP			
R3053	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5500	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R3055	1-218-941-81	METAL CHIP	100	5%	1/16W	R5501	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R3060	1-218-941-81	METAL CHIP	100	5%	1/16W	R5504	1-218-990-81	SHORT CHIP			
R3062	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5505	1-218-990-81	SHORT CHIP			
R3066	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5507	1-218-990-81	SHORT CHIP			
R3067	1-218-989-11	METAL CHIP	1M	5%	1/16W	R5508	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R3069	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5509	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R3070	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5520	1-218-941-81	METAL CHIP	100	5%	1/16W
R3071	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5521	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3075	1-218-941-81	METAL CHIP	100	5%	1/16W	R5522	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3076	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R5523	1-218-982-11	METAL CHIP	270K	5%	1/16W
R3079	1-218-965-11	METAL CHIP	10K	5%	1/16W	R5524	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R3080	1-218-953-11	METAL CHIP	1K	5%	1/16W	R5525	1-208-883-81	METAL CHIP	680	0.50%	1/16W
R3082	1-218-953-11	METAL CHIP	1K	5%	1/16W	R7021	1-218-990-81	SHORT CHIP			
R3086	1-245-604-11	METAL CHIP	10M	5%	1/16W	R7024	1-218-990-81	SHORT CHIP			
R3087	1-218-981-91	METAL CHIP	220K	5%	1/16W	R7025	1-218-990-81	SHORT CHIP			
R3089	1-208-931-11	METAL CHIP	68K	0.50%	1/16W	R7026	1-218-990-81	SHORT CHIP			
R3090	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W	R7027	1-218-977-11	METAL CHIP	100K	5%	1/16W
R3092	1-208-711-11	METAL CHIP	15K	0.50%	1/16W	R7028	1-218-975-11	METAL CHIP	68K	5%	1/16W
R3094	1-218-953-11	METAL CHIP	1K	5%	1/16W	R7029	1-218-977-11	METAL CHIP	100K	5%	1/16W
R3095	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R7030	1-218-975-11	METAL CHIP	68K	5%	1/16W
R3099	1-218-941-81	METAL CHIP	100	5%	1/16W	R7031	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R3100	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7032	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R3104	1-218-933-11	METAL CHIP	22	5%	1/16W	R7033	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W
R3106	1-218-941-81	METAL CHIP	100	5%	1/16W	R7034	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R3107	1-218-953-11	METAL CHIP	1K	5%	1/16W	R7035	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R3108	1-216-864-11	SHORT CHIP				R7036	1-218-990-81	SHORT CHIP			
R3109	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7037	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R3112	1-218-953-11	METAL CHIP	1K	5%	1/16W	R7038	1-218-953-11	METAL CHIP	1K	5%	1/16W
R3117	1-218-990-81	SHORT CHIP				R7039	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R3118	1-218-879-11	METAL CHIP	22K	0.50%	1/10W	R7040	1-218-990-81	SHORT CHIP			
R3120	1-218-945-11	METAL CHIP	220	5%	1/16W	R7041	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R3121	1-218-990-81	SHORT CHIP				R7042	1-218-990-81	SHORT CHIP			
R3125	1-208-911-11	METAL CHIP	10K	0.50%	1/16W	R7043	1-218-971-11	METAL CHIP	33K	5%	1/16W
R3151	1-218-933-11	METAL CHIP	22	5%	1/16W	R7044	1-218-969-11	METAL CHIP	22K	5%	1/16W
R3152	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W	R7045	1-218-990-81	SHORT CHIP			
R3153	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W	R7046	1-218-990-81	SHORT CHIP			
R3154	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W	R7047	1-218-990-81	SHORT CHIP			
R3155	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W	R7048	1-218-990-81	SHORT CHIP			
R5101	1-218-990-81	SHORT CHIP				R7049	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R5102	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	R7050	1-218-975-11	METAL CHIP	68K	5%	1/16W


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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7051	1-216-295-91	SHORT CHIP				R7534	1-218-952-11	METAL CHIP	820	5%	1/16W
R7052	1-216-295-91	SHORT CHIP				R7543	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7053	1-216-295-91	SHORT CHIP				R7544	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7054	1-218-990-81	SHORT CHIP				R7545	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7055	1-218-977-11	METAL CHIP	100K	5%	1/16W	R7547	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7056	1-218-990-81	SHORT CHIP				R7549	1-218-990-81	SHORT CHIP			
R7057	1-218-990-81	SHORT CHIP				R7550	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7058	1-218-990-81	SHORT CHIP				R7560	1-218-941-81	METAL CHIP	100	5%	1/16W
R7059	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W	R7564	1-208-677-11	METAL CHIP	560	0.50%	1/16W
R7060	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W	R7565	1-208-908-11	METAL CHIP	7.5K	0.50%	1/16W
R7061	1-218-990-81	SHORT CHIP				R7593	1-218-941-81	METAL CHIP	100	5%	1/16W
R7062	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7604	1-218-990-81	SHORT CHIP			
R7063	1-218-971-11	METAL CHIP	33K	5%	1/16W	R7606	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7064	1-208-675-11	METAL CHIP	470	0.50%	1/16W	R7607	1-218-941-81	METAL CHIP	100	5%	1/16W
R7065	1-218-990-81	SHORT CHIP				R7610	1-218-990-81	SHORT CHIP			
R7066	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R7616	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7067	1-218-990-81	SHORT CHIP				R7617	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7068	1-218-990-81	SHORT CHIP				R7618	1-208-697-11	METAL CHIP	3.9K	0.50%	1/16W
R7069	1-218-990-81	SHORT CHIP				R7619	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R7070	1-218-990-81	SHORT CHIP				R7620	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7071	1-218-990-81	SHORT CHIP				R7621	1-208-928-11	METAL CHIP	51K	0.50%	1/16W
R7090	1-216-295-91	SHORT CHIP				R7622	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7091	1-216-295-91	SHORT CHIP				R7623	1-218-941-81	METAL CHIP	100	5%	1/16W
R7092	1-216-295-91	SHORT CHIP				R7624	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7203	1-218-990-81	SHORT CHIP				R7625	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7205	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R7626	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R7220	1-218-941-81	METAL CHIP	100	5%	1/16W	R7627	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7337	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7628	1-218-941-81	METAL CHIP	100	5%	1/16W
R7339	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7629	1-208-928-11	METAL CHIP	51K	0.50%	1/16W
R7340	1-208-898-81	METAL CHIP	3K	0.50%	1/16W	R7630	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7341	1-208-635-11	METAL CHIP	10	0.50%	1/16W	R7631	1-218-990-81	SHORT CHIP			
R7342	1-208-643-11	METAL CHIP	22	0.50%	1/16W	R7632	1-218-941-81	METAL CHIP	100	5%	1/16W
R7343	1-218-941-81	METAL CHIP	100	5%	1/16W	R7633	1-218-949-11	METAL CHIP	470	5%	1/16W
R7344	1-218-941-81	METAL CHIP	100	5%	1/16W	R7634	1-218-941-81	METAL CHIP	100	5%	1/16W
R7345	1-218-941-81	METAL CHIP	100	5%	1/16W	R7635	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7404	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R7636	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7405	1-208-683-11	METAL CHIP	1K	0.50%	1/16W	R7637	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7406	1-208-683-11	METAL CHIP	1K	0.50%	1/16W	R7638	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7411	1-218-938-11	METAL CHIP	56	5%	1/16W	R7641	1-218-947-11	METAL CHIP	330	5%	1/16W
R7412	1-218-938-11	METAL CHIP	56	5%	1/16W	R7642	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R7477	1-218-990-81	SHORT CHIP				R7643	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7504	1-218-953-11	METAL CHIP	1K	5%	1/16W	R7646	1-208-939-11	METAL CHIP	150K	0.50%	1/16W
R7508	1-218-935-11	METAL CHIP	33	5%	1/16W	R7649	1-218-978-11	METAL CHIP	120K	5%	1/16W
R7523	1-218-990-81	SHORT CHIP				R7652	1-218-990-81	SHORT CHIP			
R7526	1-218-933-11	METAL CHIP	22	5%	1/16W	R7653	1-218-957-11	METAL CHIP	2.2K	5%	1/16W

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7658	1-239-674-81	RESISTOR, NETWORK 100				RB3042	1-239-690-81	RESISTOR, NETWORK 2.2K			
R7660	1-218-953-11	METAL CHIP	1K	5%	1/16W	RB3043	1-239-670-81	RESISTOR, NETWORK 47			
R7661	1-218-941-81	METAL CHIP	100	5%	1/16W	RB3061	1-234-370-21	RES, NETWORK 22 (1005X4)			
R7662	1-218-945-11	METAL CHIP	220	5%	1/16W	RB3802	1-239-698-11	RESISTOR, NETWORK 10K			
R7663	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W	RB3805	1-239-674-81	RESISTOR, NETWORK 100			
R7953	1-218-965-11	METAL CHIP	10K	5%	1/16W	RB3806	1-239-670-81	RESISTOR, NETWORK 47			
R7959	1-218-990-81	SHORT CHIP				RB5101	1-239-694-81	RESISTOR, NETWORK 4.7K			
R7960	1-218-959-11	METAL CHIP	3.3K	5%	1/16W	RB5102	1-239-674-81	RESISTOR, NETWORK 100			
R7961	1-218-965-11	METAL CHIP	10K	5%	1/16W	RB5114	1-239-666-81	RESISTOR, NETWORK 22			
R7969	1-208-871-81	METAL CHIP	220	0.50%	1/16W	RB5500	1-239-706-81	RESISTOR, NETWORK 47K			
R7970	1-208-871-81	METAL CHIP	220	0.50%	1/16W	RB5501	1-239-706-81	RESISTOR, NETWORK 47K			
R7971	1-208-871-81	METAL CHIP	220	0.50%	1/16W	RB5502	1-239-706-81	RESISTOR, NETWORK 47K			
R7972	1-208-871-81	METAL CHIP	220	0.50%	1/16W	RB5503	1-239-706-81	RESISTOR, NETWORK 47K			
R7975	1-218-965-11	METAL CHIP	10K	5%	1/16W	RB5506	1-239-694-81	RESISTOR, NETWORK 4.7K			
R7987	1-218-990-81	SHORT CHIP				RB7201	1-239-674-81	RESISTOR, NETWORK 100			
R9227	1-218-933-11	METAL CHIP	22	5%	1/16W	RB7202	1-239-674-81	RESISTOR, NETWORK 100			
R9230	1-218-990-81	SHORT CHIP				RB7205	1-234-372-11	RES, NETWORK 100 (1005X4)			
R9234	1-218-965-11	METAL CHIP	10K	5%	1/16W	RB7209	1-234-378-21	RES, NETWORK 10K (1005X4)			
<u>RESISTOR BRIDGE</u>						RB7210	1-239-674-81	RESISTOR, NETWORK 100			
RB1001	1-239-698-11	RESISTOR, NETWORK 10K				RB7420	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB2001	1-234-381-11	RES, NETWORK 100K (1005X4)				RB7421	1-234-378-21	RES, NETWORK 10K (1005X4)			
RB2004	1-239-674-81	RESISTOR, NETWORK 100				RB7516	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB2007	1-234-370-21	RES, NETWORK 22 (1005X4)				RB7520	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB2008	1-234-371-21	RES, NETWORK 47 (1005X4)				RB7521	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
RB3000	1-239-698-11	RESISTOR, NETWORK 10K				RB7537	1-239-698-11	RESISTOR, NETWORK 10K			
RB3002	1-239-694-81	RESISTOR, NETWORK 4.7K									
RB3003	1-234-372-11	RES, NETWORK 100 (1005X4)				RB7550	1-234-372-11	RES, NETWORK 100 (1005X4)			
RB3004	1-234-372-11	RES, NETWORK 100 (1005X4)				RB7600	1-239-674-81	RESISTOR, NETWORK 100			
RB3006	1-234-372-11	RES, NETWORK 100 (1005X4)				RB7601	1-239-690-81	RESISTOR, NETWORK 2.2K			
RB3007	1-234-372-11	RES, NETWORK 100 (1005X4)				RB7602	1-239-674-81	RESISTOR, NETWORK 100			
RB3008	1-234-371-21	RES, NETWORK 47 (1005X4)				RB7603	1-211-990-11	METAL CHIP	75	0.50%	1/10W
RB3009	1-234-372-11	RES, NETWORK 100 (1005X4)									
RB3010	1-234-371-21	RES, NETWORK 47 (1005X4)				RB7604	1-211-990-11	METAL CHIP	75	0.50%	1/10W
RB3012	1-234-378-21	RES, NETWORK 10K (1005X4)				RB7606	1-211-990-11	METAL CHIP	75	0.50%	1/10W
RB3013	1-234-378-21	RES, NETWORK 10K (1005X4)				RB7607	1-211-990-11	METAL CHIP	75	0.50%	1/10W
RB3015	1-234-375-21	RES, NETWORK 1K (1005X4)				RB7608	1-211-990-11	METAL CHIP	75	0.50%	1/10W
RB3016	1-234-372-11	RES, NETWORK 100 (1005X4)				RB9201	1-234-370-21	RES, NETWORK 22 (1005X4)			
RB3017	1-234-375-21	RES, NETWORK 1K (1005X4)									
RB3019	1-239-674-81	RESISTOR, NETWORK 100									
<u>TRANSFORMER</u>											
TB1000 1-780-489-12 S TERMINAL BLOCK (RIGHT)											
<u>TUNER</u>											
TU7600 8-597-686-00 TUNER, FSS BTF-CA431T											
RB3021	1-234-375-21	RES, NETWORK 1K (1005X4)									
RB3023	1-239-686-11	RESISTOR, NETWORK 1K									
RB3030	1-234-378-21	RES, NETWORK 10K (1005X4)									
RB3040	1-234-371-21	RES, NETWORK 47 (1005X4)									
RB3041	1-239-690-81	RESISTOR, NETWORK 2.2K									

# BM3 D1N D2N G7N HLR3

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<b>VARISTOR</b>				<b>CRYSTAL</b>			
VD1000	1-802-090-21	VARISTOR, CHIP		X3000	1-813-999-11	VIBRATOR, CRYSTAL	
VD1001	1-802-090-21	VARISTOR, CHIP		X3001	1-813-784-21	VIBRATOR, CRYSTAL	
VD1003	1-802-090-21	VARISTOR, CHIP		X7200	1-814-261-21	VIBRATOR, CRYSTAL	
VD1005	1-802-090-21	VARISTOR, CHIP		X7501	1-814-282-11	PIEZOELECTRIC OSCILLATOR	24MHZ
VD1006	1-802-090-21	VARISTOR, CHIP		<b>D1N</b>			
VD1007	1-802-090-21	VARISTOR, CHIP		<b>A-1663-186-E D1N BOARD, COMPLETE</b>			
VD1008	1-802-090-21	VARISTOR, CHIP		Component level repair information for this board is not available.			
VD1010	1-802-090-21	VARISTOR, CHIP		<b>D2N</b>			
VD1011	1-802-090-21	VARISTOR, CHIP		<b>A-1663-190-E D2N BOARD, COMPLETE</b>			
VD1012	1-802-090-21	VARISTOR, CHIP		Component level repair information for this board is not available.			
VD1013	1-802-090-21	VARISTOR, CHIP		<b>G7N</b>			
VD1014	1-802-090-21	VARISTOR, CHIP		<b>1-487-341-11 G7N (POWER) BOARD, COMPLETE</b>			
VD1016	1-802-090-21	VARISTOR, CHIP		Component level repair information for this board is not available.			
VD1017	1-802-090-21	VARISTOR, CHIP		<b>HLR3</b>			
VD1018	1-802-090-21	VARISTOR, CHIP		<b>A-1660-696-A HLR3 BOARD, MOUNTED</b>			
VD1019	1-802-090-21	VARISTOR, CHIP		<b>CONNECTOR</b>			
VD1025	1-802-090-21	VARISTOR, CHIP		CN500	1-821-134-11	HEADER ASSEMBLY FOR PWB	
VD1026	1-802-090-21	VARISTOR, CHIP		* CN501	1-819-472-11	HEADER ASSEMBLY FOR PWB	
VD1027	1-802-090-21	VARISTOR, CHIP		<b>DIODE</b>			
VD1028	1-802-090-21	VARISTOR, CHIP		* D500	6-502-294-01	DIODE	SML-D13M8WT86S
VD1029	1-802-090-21	VARISTOR, CHIP		D501	6-502-196-01	DIODE	SML-D12Y8WT86SP
VD1030	1-802-090-21	VARISTOR, CHIP		* D502	6-502-294-01	DIODE	SML-D13M8WT86S
VD1040	1-802-090-21	VARISTOR, CHIP		D505	6-502-598-01	DIODE	SML-D12U8WT86
VD1041	1-802-090-21	VARISTOR, CHIP		<b>TRANSISTOR</b>			
VD1042	1-802-090-21	VARISTOR, CHIP		Q500	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
VD5102	1-802-090-21	VARISTOR, CHIP		Q501	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
VD5103	1-802-090-21	VARISTOR, CHIP		Q502	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
VD5104	1-802-090-21	VARISTOR, CHIP		Q505	6-551-815-01	TRANSISTOR	UNR52A1G0LS0
VD5105	1-802-090-21	VARISTOR, CHIP		<b>RESISTOR</b>			
VD5106	1-802-090-21	VARISTOR, CHIP		R512	1-218-941-11	METAL CHIP	100 5% 1/16W
VD5107	1-802-090-21	VARISTOR, CHIP		R513	1-208-671-11	METAL CHIP	330 0.50% 1/16W
VD5108	1-802-090-21	VARISTOR, CHIP		R514	1-218-941-11	METAL CHIP	100 5% 1/16W
VD5109	1-802-090-21	VARISTOR, CHIP		R517	1-208-675-11	METAL CHIP	470 0.50% 1/16W
VD5110	1-802-090-21	VARISTOR, CHIP					
VD7501	1-805-774-21	VARISTOR, CHIP					
VD7503	1-805-774-21	VARISTOR, CHIP					
VD7505	1-805-774-21	VARISTOR, CHIP					
VD7506	1-802-090-21	VARISTOR, CHIP					
VD7507	1-802-090-21	VARISTOR, CHIP					
VD7508	1-802-090-21	VARISTOR, CHIP					

NOTE: The components identified by shading and  mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.






REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
<div>HSR</div>						ACCESSORIES AND PACKING			
	A-1735-554-A	HSR BOARD, MOUNTED							
		CAPACITOR							
	C401	1-112-068-11	CERAMIC CHIP	220pF	10%	50V		* 2-657-860-01	BAG, PROTECTION
	C402	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V		* 4-117-034-01	BAG, PROTECTION (STAND)
	C404	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V		* X-2349-355-2	CARTON ASSY (US Models Only)
	C405	1-114-333-11	CERAMIC CHIP	47µF	10%	6.3V		* X-2514-428-2	CARTON ASSY (Canada Models Only)
	C406	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V			
		CONNECTOR							
*	CN401	1-821-132-11	HEADER ASSEMBLY FOR PWB					* 4-133-029-01	CUSHION, LOWER (46)
		DIODE						* 4-133-028-02	CUSHION, UPPER (46)
	D402	6-501-734-01	DIODE	MAZ8056GMLS0				3-299-071-02	FLYER, SAFETY
		IC						4-132-232-12	GUIDE, QUICK SETUP (ENGLISH VERSION)
	IC401	6-600-681-01	IC	RS-770N				4-132-232-22	GUIDE, QUICK SETUP (FRENCH VERSION)
	IC402	6-600-680-01	PHOTO DIODE	BH1690FVC-TR				4-132-231-13	MANUAL, INSTRUCTION (ENGLISH VERSION)
		TRANSISTOR						4-132-231-23	MANUAL, INSTRUCTION (FRENCH VERSION)
	Q401	6-551-775-01	TRANSISTOR	2SA2122G0LS0					
		RESISTOR							
	R401	1-218-937-11	METAL CHIP	47	5%	1/16W			
	R402	1-218-937-11	METAL CHIP	47	5%	1/16W			
	R403	1-218-990-81	SHORT CHIP						
	R404	1-218-955-11	METAL CHIP	1.5K	5%	1/16W			
	R406	1-218-990-81	SHORT CHIP						
	R407	1-218-979-11	METAL CHIP	150K	5%	1/16W			
	R408	1-218-965-11	METAL CHIP	10K	5%	1/16W			
	R409	1-218-971-11	METAL CHIP	33K	5%	1/16W			
	R411	1-218-953-11	METAL CHIP	1K	5%	1/16W			

## APPENDIX A: ENCRYPTION KEY COMPONENTS

Encryption key components developed by Sony Corporation contain confidential information, and shall be handled under the non-disclosure obligations provided in the applicable agreement with Sony Corporation (and/or its subsidiary).

As part of this agreement specific instructions must be adhered to whenever a Circuit Board containing encryption key components is repaired and/or replaced pursuant to the following:

- 1) In the service manual the Circuit Board(s) containing encryption key components shall be identified with a **red outline and a .**
- 2) Only repair boards or components listed in the service manual shall be utilized for replacement and/or repair.
- 3) Disassembly, decryption, or reverse-engineering component(s) is strictly prohibited.
- 4) Any board in which the Servicer replaces an encryption key component must be placed back into the set it originally came from and the replaced defective component **MUST BE DESTROYED**. Boards cannot be swapped.
- 5) If a Circuit Board identified with a **red outline and a .** in the service manual is deemed to be defective:
  - a) and if a core charge is imposed and is covered under the product warranty, the defective un-repaired or modified board **MUST BE RETURNED** to Sony.
  - b) and if the core charge is **NOT** covered under the product warranty, the defective un-repaired or modified board **MUST BE DESTROYED**.
- 6) If a unit is destroyed (such as field scrap), the Circuit Board identified with a **red outline and a .** in the service manual **MUST BE DESTROYED**.

*In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to the Service Promotion Department at [Service\\_Promotion@am.sony.com](mailto:Service_Promotion@am.sony.com).*