HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

AZ1-H *Chassis*

ORIGINAL MANUAL ISSUE DATE: 8/2010

Version	Date	Subject
1.0	8/3/2010	No revisions or updates are applicable at this time.
2.0	8/11/2010	Updated Special Handling Instructions when Replacing the LCD Panel Assembly. Added Wire Dressing Diagrams. Added White Balance Adjustments. Reissue entire manual.
3.0	9/30/2010	Corrected Support Belt Kit PN. Replaced page 20.
4.0	2/8/2011	Corrected disassembly instructions for LCD Panel removal. Replaced page 16.

LCD Digital Color TV

SONY®

9-888-349-04

Self Diagnosis
Supported model

SERVICE MANUAL

AZ1-H *Chassis*

LCD Digital Color TV

SONY®

9-888-349-04

MODEL LIST

MODEL	COMMANDER	DESTINATION
KDL-46NX810	*RM-YD036*	*US*
KDL-46NX810	*RM-YD051*	*CND*
KDL-55NX810	*RM-YD036*	*US*
KDL-55NX810	*RM-YD051*	*CND*
KDL-55NX811	*RM-YD051*	*MX*

MODEL	COMMANDER	DESTINATION
KDL-60NX810	*RM-YD036*	*US*
KDL-60NX810	*RM-YD051*	*CND*

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SPECIFICATIONS

Model name KDL-	60NX810	55NX811/ 55NX810	46NX810
System			
Television system	NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)		
Channel coverage	Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135		
Panel system	LCD (Liquid Crystal Display) Panel		
Speaker output	8 W + 8 W + 10 W		
Input/Output jacks			
CABLE/ANTENNA	75-ohm external terminal for RF inputs		
VIDEO IN 1/2	VIDEO / AUDIO		
COMPONENT IN	YPBPR (Component Video) / Signal format: 480i, 480p, 720p, 1080i, 1080p AUDIO		
HDMI IN 1/2/3/4	HDMI: Video: 480i, 480p, 720p, 720/24p, 1080i, 1080p, 1080/24p Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital AUDIO (HDMI IN 2)		
AUDIO OUT	500 mVrms (typical)		
DIGITAL AUDIO OUT (OPTICAL)	PCM/Dolby Digital optical signal		
PC IN	D-sub 15-pin, analog RGB		
PC/HDMI 2 AUDIO IN	Stereo mini jack		
LAN	10BASE-T/100BASE-TX connector (Connection speed may differ depending on the network environment. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV.)*1		
USB/DLNA	Refer to the i-Manual for supported format.		
3D SYNC	3D Sync terminal for optional transmitter		

*1 For LAN connections, use a Category 7 10BASE-T/100BASE-TX cable (not supplied).

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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.

Changes to certain features, settings, and functionalities of this TV (i.e. TV Guide, Picture/Sound, Light Sensor, Power Savings) can increase or change the power consumption.

Depending upon such changed settings, the power consumption may exceed the limits required for the ENERGY STAR qualification in the “Home” mode.

The 55 class has a 54.6 inch viewable image size (measured diagonally).

Model name KDL-	60NX810	55NX811/ 55NX810	46NX810
Power and others			
Power requirement	110-240 V AC, 50/60 Hz (U.S.A./Canada 120 V AC, 60 Hz)		
Power consumption in use	215 W	175 W	156 W
Power consumption in DAM*2	18 W (You may hear a clicking noise during the download but this is normal.)	22 W	
Power consumption in standby	Less than 0.12 W with 120 V AC and less than 0.2 W with 240 V AC		
Screen size (inches measured diagonally)	60 inches	54.6 inches (55 class)	46 inches
Display resolution	1,920 dots (horizontal) × 1,080 lines (vertical)		
Speaker Full range (mm)	20 × 70 (4)		
Speaker Full range (inches)	$13/16 \times 2\ 7/8$ (4)		
Speaker Woofer (mm)	Φ 60 (1)		
Speaker Woofer (inches)	Φ $2\ 3/8$ (1)		
Dimensions with stand (mm)	1,400 × 865 × 303	1,276 × 800 × 323	1,083 × 690 × 270
Dimensions with stand (inches)	$55\ 1/8 \times 34\ 1/8 \times 12$	$50\ 1/4 \times 31\ 1/2 \times 12\ 3/4$	$42\ 3/4 \times 27\ 1/4 \times 10\ 3/4$
Dimensions without stand (mm)	1,400 × 836 × 45	1,276 × 770 × 32	1,083 × 660 × 31
Dimensions without stand (inches)	$55\ 1/8 \times 33 \times 1\ 7/8$	$50\ 1/4 \times 30\ 3/8 \times 1\ 3/8$	$42\ 3/4 \times 26 \times 1\ 1/4$
wall-mount hole pattern (mm)	400 × 300	300 × 300	
wall-mount screw size (mm)	M6 (length: 8-12 mm)		
Mass with stand (kg)/(lb.)	43.0/ 94.8	32.2/71	24.8/54.7
Mass without stand (kg)/(lb.)	36.6/ 80.7	26.9/59.3	20.5/45.2
Supplied accessories	See “Checking the accessories”		
Optional accessories	Connecting cables / Support Belt Kit / Wall-Mount Bracket / Wall-Hanging Bracket / 3D Glasses / 3D Sync Transmitter (KDL-55NX811 Only)		

*2 Download Acquisition Mode (DAM) is used for software updates and/or collecting data for TV Guide On Screen.

- Optional accessories availability depends on its stock.
- Design and specifications are subject to change without notice.

Checking the accessories

Table-Top Stand (1)*1
Remote control (1)*2
Size AAA batteries (2)
Hexagon wrench (1)
Assembling screws for Table-Top Stand (4)
3D Glasses (battery included) (2)
(KDL-55NX811 only)
Pouch for 3D Glasses (2)
(KDL-55NX811 only)
3D Sync Transmitter (1)
(KDL-55NX811 only)
Double-sided tape (2)
(KDL-55NX811 only)

*1 Assembly required. Refer to other leaflet to assemble the Table-Top Stand.

*2 Please refer to the model name printed on the remote control.

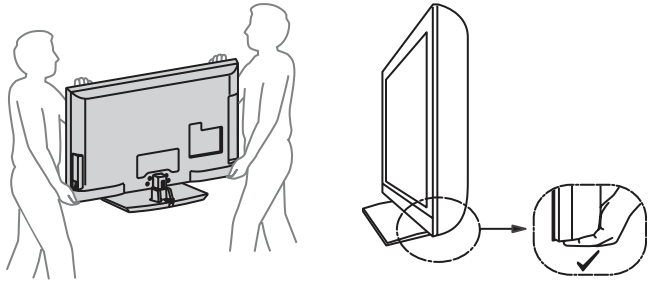
WARNINGS AND CAUTIONS

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

- Carry the TV with the 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 damage.



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 exploded views are critical for safe operation.
Replace all components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. It is essential that all critical parts be replaced only with the part number specified in this manual to prevent electric shock, fire, or other hazard.
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.

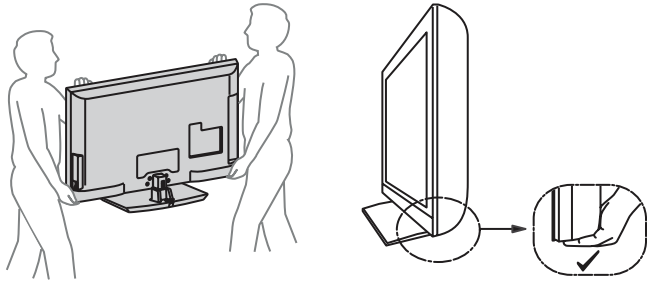
NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor guarantee.

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

- 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, l'emplacement des mains est très important pour votre sécurité, ainsi que pour éviter de causer des dommages.



ALERTE!!

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre 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 identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

HANDLING THE GLASS ASSEMBLY

Use the following precautionary guidelines when replacing the Glass Assembly to avoid material degradation or screen coating degradation, and ensure that dust, dirt, or fingerprints are not left between the glass and the LCD panel.

- ☑ Replace the Glass Assembly in a brightly lit and clean room.
- ☑ Place the replacement Glass Assembly on a dark cloth to make it easier to see dust and dirt particles.
- ☑ Wear anti static gloves to avoid leaving finger prints on the glass.
- ☑ Use a dry, soft MicroFiber cloth, such as a lint free polishing cloth, to gently wipe the glass to remove any dust or dirt particles.
- ☑ If the glass needs additional cleaning, slightly moisten the cloth with a diluted mild soap or mild detergent solution, or use a compressed air duster (spray can type).
- ☑ After replacing the Glass Assembly, verify there are no dark spots or finger prints visible on the screen.

CAUTION

- ⦸ Do Not use paper towels, any type of abrasive pad, rags, rubber or vinyl materials to clean the screen. Using these materials could easily scratch the screen which may result in permanent damage.
- ⦸ Do Not se any cleaning product containing alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, ammonia, benzene, thinner or insecticide. Using any of these harsh cleaners may result in permanent damage to the screen.
- ⦸ Do Not spray water or detergent directly onto the TV screen . If liquid drips into the bottom of the screen it may cause a failure.

SPECIAL HANDLING INSTRUCTIONS WHEN REPLACING THE LCD PANEL ASSEMBLY

Use the following precautionary guidelines when handling the LCD Panel Assembly to avoid material degradation or screen coating degradation, and ensure that dust, dirt, or fingerprints are not left between the glass and the LCD Panel Assembly.

1. After removing the boards and connectors, note where the frame is on the panel. (See Figure 1)
2. Lift the LCD Panel Assembly by holding the top and bottom of the panel approximately 200mm from the edge with your palms on the back of the panel. (See Figure 2)

   CAUTION: Lifting or holding the panel at the corners may damage the panel.
3. Use the same method when taking the replacement panel out of the carton. (See Figure 3)

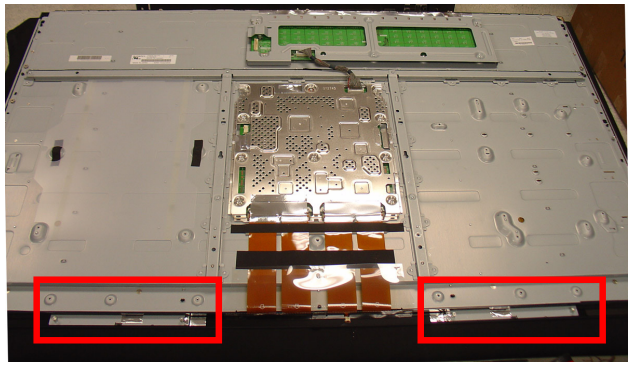


Figure 1

Figure 2

Figure 3

CAUTION: DO NOT lift the LCD Panel by holding the short side of the panel or by placing your palms on the front glass. (See Figures 4 & 5)

Figure 4

Figure 5

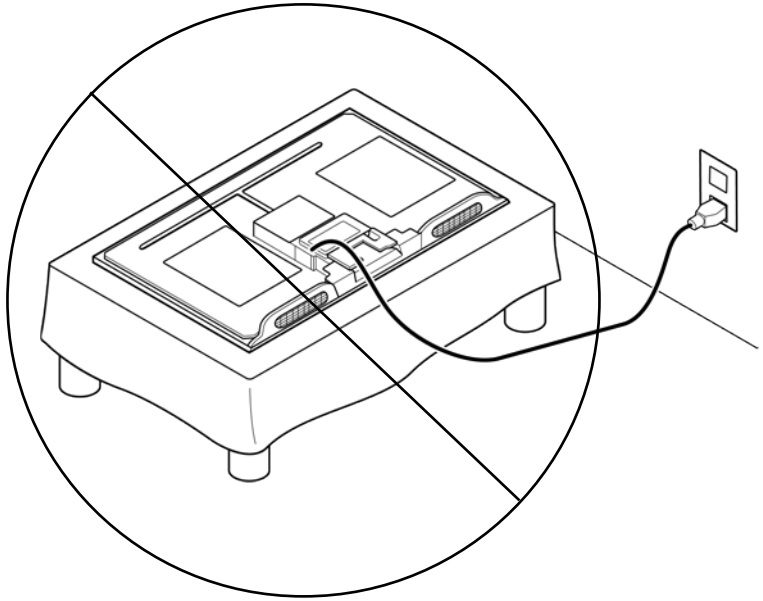
SAFETY-RELATED WARNING

USE CAUTION WHEN HANDLING THE LCD PANEL ASEMBLY

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

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

1) Do not press on the panel or frame edge to avoid the risk of electric shock.
2) Do not scratch or press on the panel with any sharp objects.
3) Do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
4) Do not expose the LCD Panel Asembly to direct sunlight.
5) Avoid contact with water. It may cause a short circuit within the module.
6) Disconnect the AC power when replacing the backlight or inverter circuit.
   (High voltage occurs at the inverter circuit at 650Vrms.)
7) Always clean the LCD Panel Asembly with a soft cloth material.
8) Use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
9) Protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).
10) During the repair, DO NOT leave the Power On for more than 1 hour while the TV is face down on a cloth.



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.

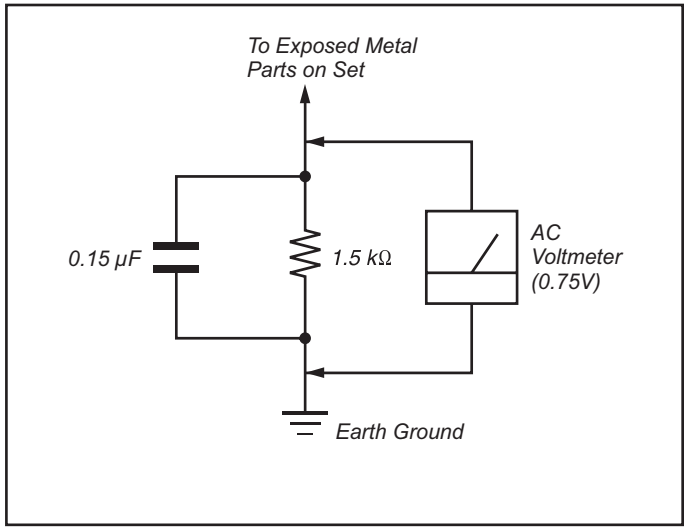


Figure A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

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 milliampmeter. 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).

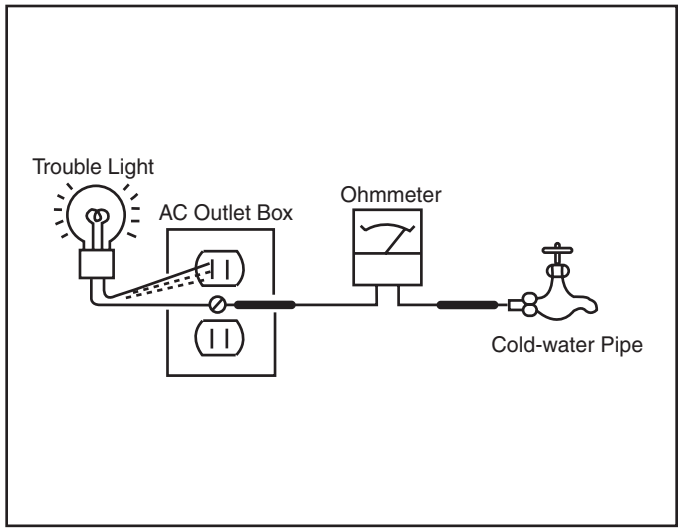


Figure B. Checking for earth ground.

SELF DIAGNOSIS FUNCTIONS

Self Diagnosis Supported model

SELF DIAGNOSIS FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY LED 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.

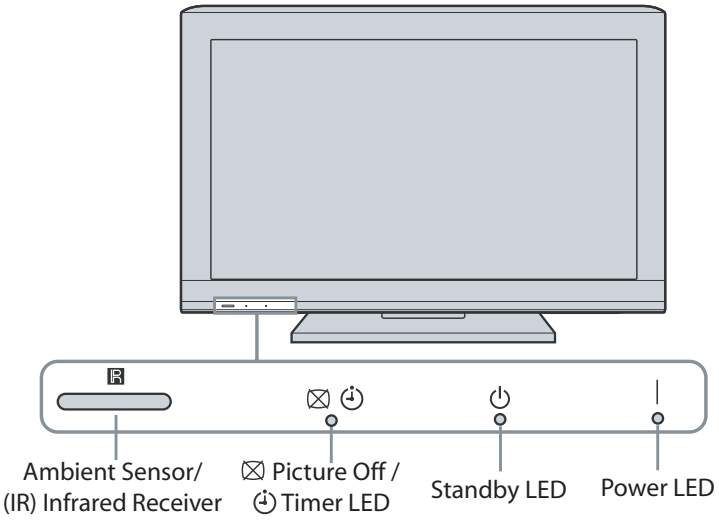
DIAGNOSTIC TEST INDICATORS

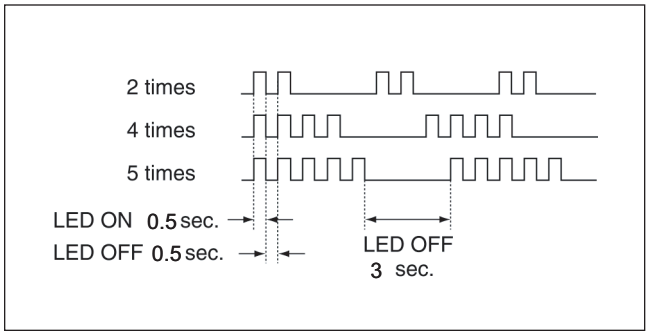
When an error occurs, the STANDBY LED will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the LED will identify the first of the problem areas.
Result for all of the following diagnostic items are displayed on screen.

If the screen displays a "0", no error has occurred .

Diagnostic Item	Diagnostic Item Description	Number of times Standby LED blinks	Possible Location
RGB_SEN	RGB Sensor ACK Error	NA	NA
MAIN_POWER	Main Power Over Voltage Protection	2	G9B (Power) Board (KDL-46NX810/55NX810/55NX811 Only) G10 (Power) Board (KDL-60NX810 Only) G11 (Power) Board (KDL-60NX810 Only) BUHT Board
DC_ALERT	DC Alert	3	BUHT Board G9B (Power) Board (KDL-46NX810/55NX810/55NX811 Only) G10 (Power) Board (KDL-60NX810 Only) G11 (Power) Board (KDL-60NX810 Only)
DTT-WDT	DTT Error		
AUD_PROT	Audio Error Detection		
BALANCER	Panel Balancer Error	4	BUHT Board
TCON ERR	TCON Error	5	LCD Panel TCON Control MT Board BUHT Board
HFR ERR	HFR Error		
P_ID_ERR	Panel ID NVM Error		
BACKLITE	Backlight Error	6	BUHT Board
TEMP_ERR	Temperature Error	7	BUHT Board
FAN_ERR	Fan Error (Not Detected; Display Only)	NA	NA

STANDBY LED FLASH COUNT





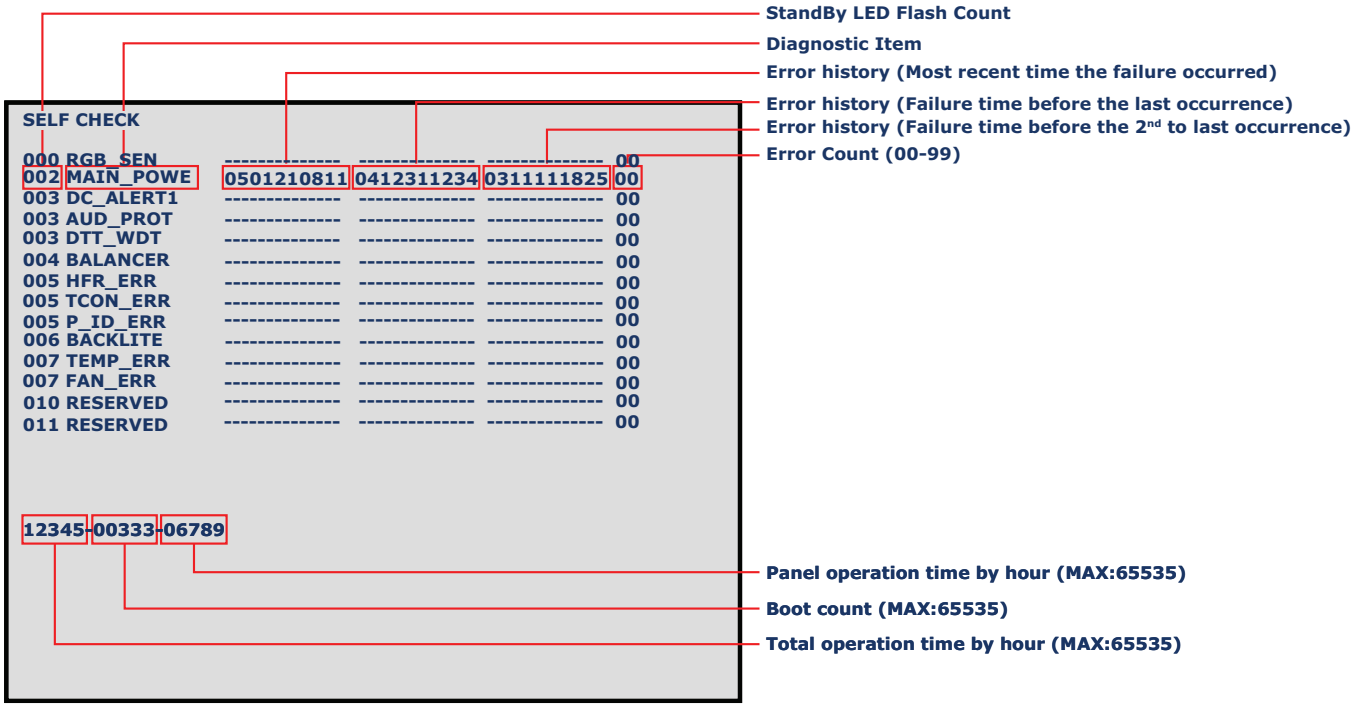
VIEWING THE SELF CHECK DIAGNOSTIC LIST

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of a failure for confirmation on the Self Check diagnostic screen:

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.

* NOTE: This differs from accessing Service Adjustments Mode (Volume +)



CLEARING THE SELF CHECK DIAGNOSTIC LIST

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen after you have completed the repairs to be sure you have cleared the result display to "0".

1. To clear the Error history and Error count: Press the Channel [8] ➡ Channel [0].
2. To clear the Panel operation time: Press the Channel [7] ➡ Channel [0].

EXITING THE SELF CHECK DIAGNOSTIC SCREEN

1. To exit the Self Diagnostic screen, turn off the power to the TV by pressing the POWER button on the remote or the POWER button on the TV.

SEC 1. DISASSEMBLY/PART NUMBER INFORMATION

1-1. TABLE-TOP STAND ASSEMBLY REMOVAL

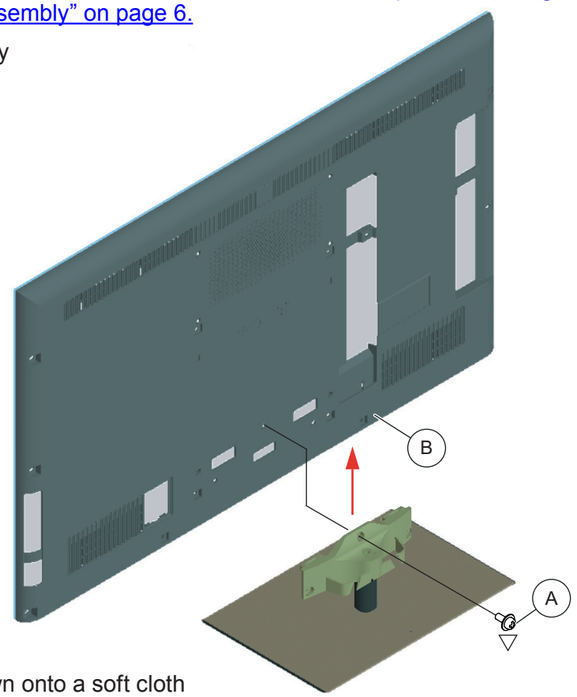
CAUTION: Use care when handling the TV. Correct hand placement while carrying the TV is very important for safety and to avoid damaging the panel. For more information Refer to "Special Handling Instructions When Replacing the LCD Panel Assembly" on page 6.

Ⓐ Remove screws from Table-Top Stand Assembly

3 from KDL-46NX810/55NX810/55NX811 Only

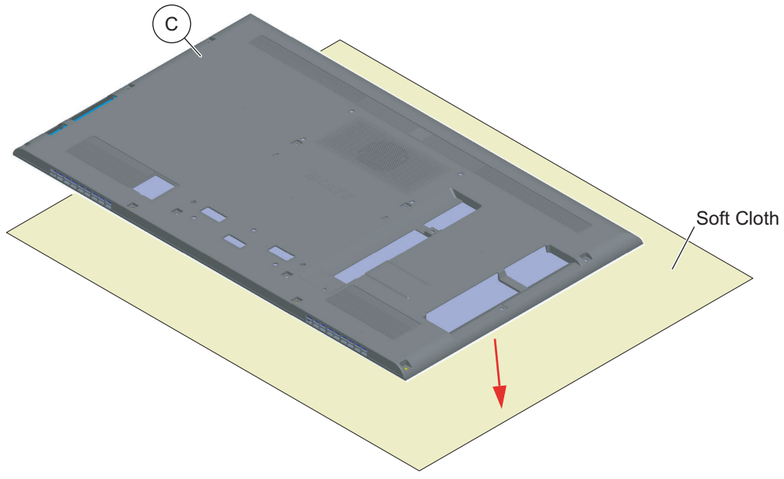
5 from KDL-60NX810 Only

Ⓑ Lift up TV set to detach from Table-Top Stand Assembly



Ⓒ Gently place the LCD Panel Assembly face down onto a soft cloth

CAUTION: Refer to "Special Handling Instructions When Replacing the LCD Panel Assembly" on page 6.



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.

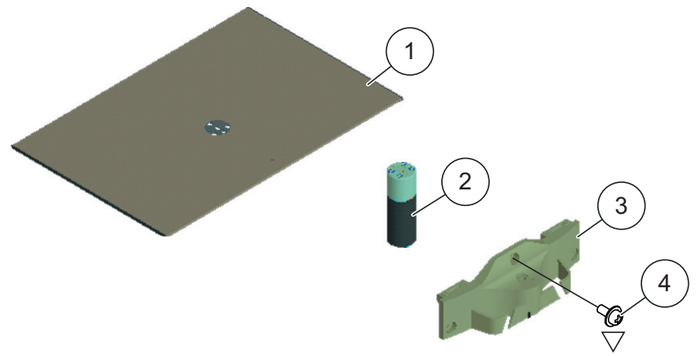
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

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

NOTE: Les composants identifies per 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 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.

Check the Sony Electronics Service Information website for any additional service related issues for this model.



REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
1	X-2548-373-1	BASE,STAND ASSEMBLY S(2L) (KDL-55NX810/55NX811 ONLY)
1	X-2548-374-1	BASE,STAND ASSEMBLY S(3L) (KDL-60NX810 ONLY)
1	X-2548-372-1	BASE,STAND ASSEMBLY S(L) (KDL-46NX810 ONLY)
2	X-2549-351-1	NECK (2L) ASSEMBLY (KDL-55NX810/55NX811 ONLY)
2	X-2549-352-1	NECK (L) ASSEMBLY (KDL-46NX810 ONLY)
2	X-2548-505-1	NECK(3L) ASSEMBLY (KDL-60NX810 ONLY)
3	4-188-291-01	HEAD, STAND (3L) (KDL-60NX810 ONLY)
3	4-256-168-01	HEAD, STAND (ML) (KDL-46NX810/55NX810/55NX811 ONLY)
4	3-452-815-01	SCREW, +PSW M5X20 (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
▽	3-452-815-01	SCREW, +PSW M5X20

1-2. REAR COVER, BEZEL BOTTOM, SPEAKERS AND SWITCH UNIT REMOVAL

Ⓐ Remove 1 screw from AC Cover to detach from Rear Cover

Ⓑ Remove 2 screws from Rear Cover to detach from Bottom Frame

Ⓒ Remove screws from Rear Cover to detach from LCD Panel Assembly

11 from KDL-46NX810 Only

13 from KDL-55NX810/55NX811/60NX810 Only

Ⓓ Lift up Switch Unit and disconnect 1 connector to remove from LCD Panel Assembly

Ⓔ Slide out Power Switch and disconnect 1 connector to remove from Switch unit

Ⓕ Disconnect 1 connector to detach Power Cord from G9B/G10 (Power) Boards

Ⓖ Disconnect 1 connector and lift up right-side Speaker to detach from Bezel Bottom

Ⓗ Remove 2 screws to detach Bottom Frame from LCD Panel Assembly

Ⓘ Disconnect 1 connector and lift up left-side Speaker to detach from Bezel Bottom

Ⓙ Remove screws from Bezel Bottom to detach from LCD Panel Assembly

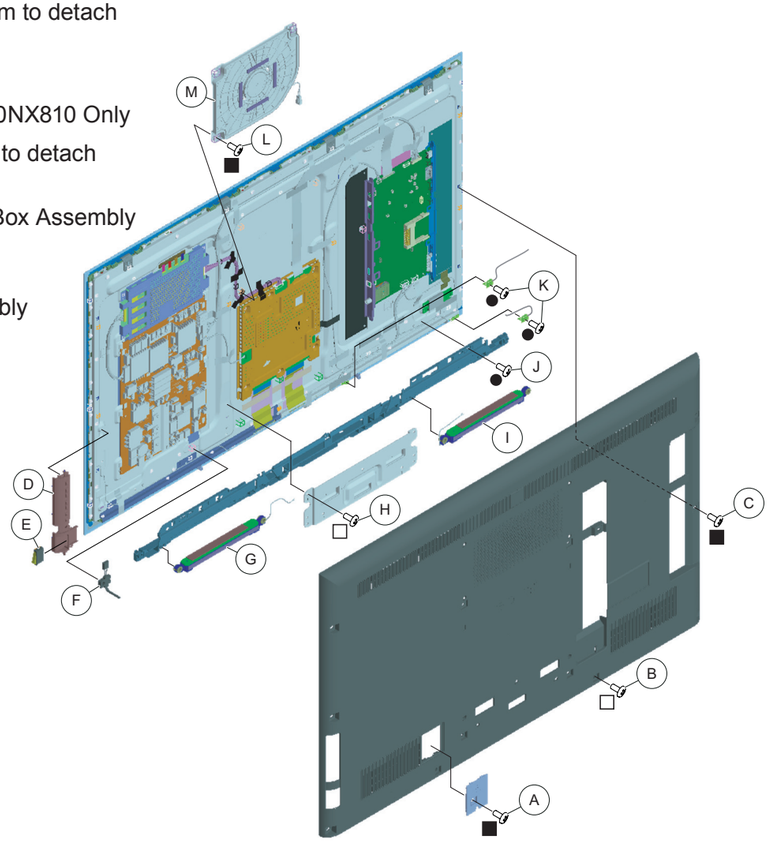
3 from KDL-46NX810 Only

5 from KDL-55NX810/55NX811/60NX810 Only

Ⓚ Remove 2 screws from Antennas to detach from LCD Panel Assembly

Ⓛ Remove 3 screws from Speaker Box Assembly (KDL-46NX810 Only)

Ⓜ Lift-up Speaker Box Assembly to detach from LCD Panel Assembly

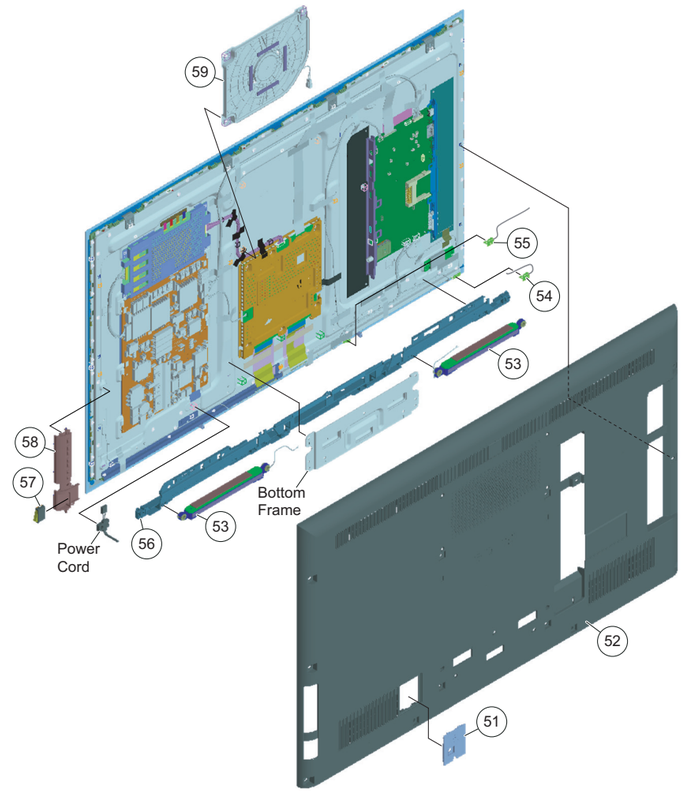


NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per 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 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.

Check the Sony Electronics Service Information website for any additional service related issues for this model.



REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
51	4-188-688-01	COVER, AC
52	4-188-115-01	REAR COVER (46) (KDL-46NX810 ONLY)
52	4-199-568-01	REAR COVER (55) (KDL-55NX810/55NX811 ONLY)
52	X-2549-892-1	REAR COVER ASSEMBLY(60) (KDL-60NX810 ONLY)
53	1-858-469-11	SPEAKER BOX ASSEMBLY (8X2CM)
54	1-754-692-11	ANTENNA
55	1-754-692-21	ANTENNA

REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
56	X-2548-180-1	BEZEL BOTTOM (46) ASSEMBLY (KDL-46NX810 ONLY)
56	X-2548-181-1	BEZEL BOTTOM (55) ASSEMBLY (KDL-55NX810/55NX811 ONLY)
56	X-2548-182-1	BEZEL BOTTOM (60) ASSEMBLY (KDL-60NX810 ONLY)
57	1-798-348-11	POWER SWITCH
58	1-489-238-11	SWITCH UNIT
59	1-858-471-11	SPEAKER BOX ASSEMBLY (24.0X18.5CM)
■	4-167-019-11	SCREW, +PSW M3X8
□	4-159-298-01	SCREW, +PSW M4X10
●	2-990-421-41	SCREW (+PSW) (M3X6)

1-3. G9B/G10/G11 (POWER) BOARDS, BUHT BOARD, HLT BOARD, WIRELESS LAN CARD AND LCD PANEL ASSEMBLY REMOVAL

1-3-1. KDL-46NX810/55NX810/55NX811 ONLY

CAUTION: Refer to "Special Handling Instructions When Replacing the LCD Panel Assembly" on page 6.

Note: The Tape PWB (H), Side Jack Label, Terminal Label, Insulation Sheet (G) and Attachment GL pieces are not included with the LCD Panel Assembly and must be replaced when replacing the LCD Panel Assembly.

Ⓐ Remove 2 screws from Wireless LAN Card to detach from LCD Panel Assembly

Ⓑ Gently peel-off HLT Board and Disconnect 1 connector to detach from LCD Panel Assembly

Ⓒ Gently peel-off Tape PWB (H) to detach from HLT Board

Ⓓ Remove 9 screws from BUHT Board to detach from LCD Panel Assembly

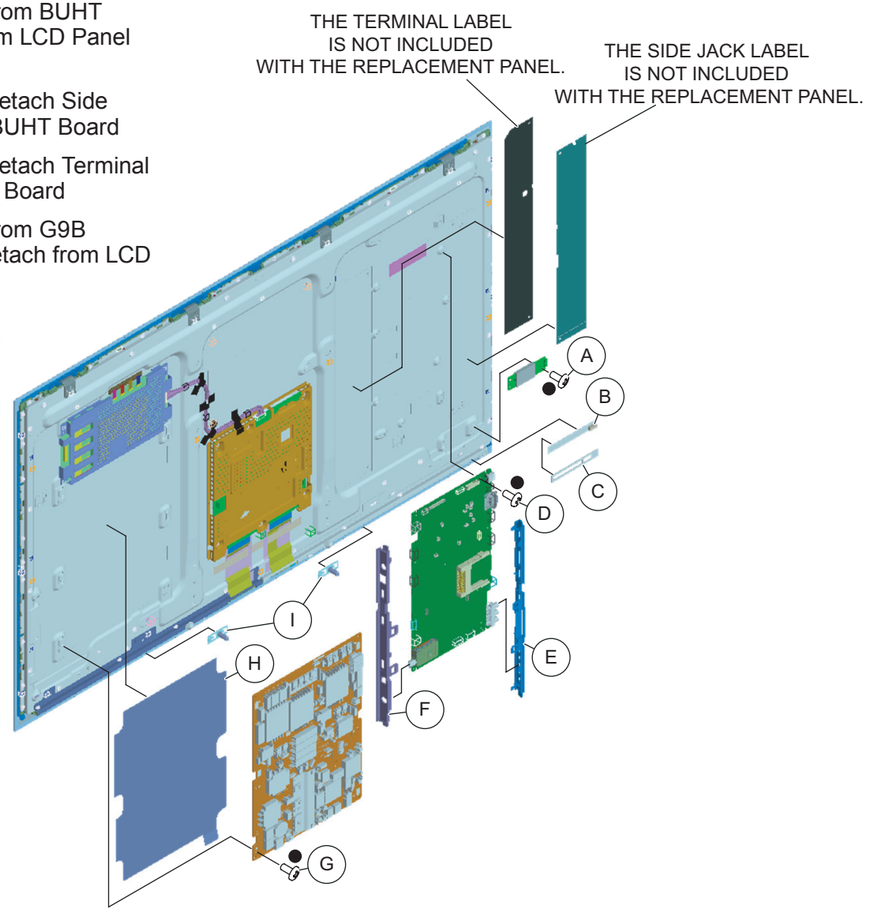
Ⓔ Release 2 clips to detach Side Jack Bracket from BUHT Board

Ⓕ Release 2 clips to detach Terminal Bracket from BUHT Board

Ⓖ Remove 3 screws from G9B (Power) Board to detach from LCD Panel Assembly

Ⓗ Gently peel-off Insulation Sheet (G) to detach from LCD Panel Assembly

Ⓘ Slide-out 2 Attachment GL pieces to detach from LCD Panel Assembly

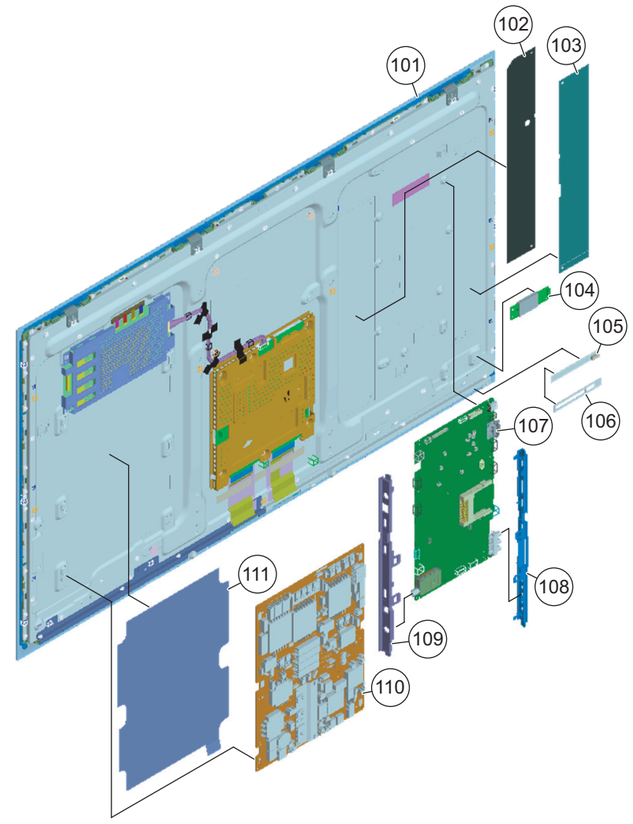


NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per 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 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.

Check the Sony Electronics Service Information website for any additional service related issues for this model.



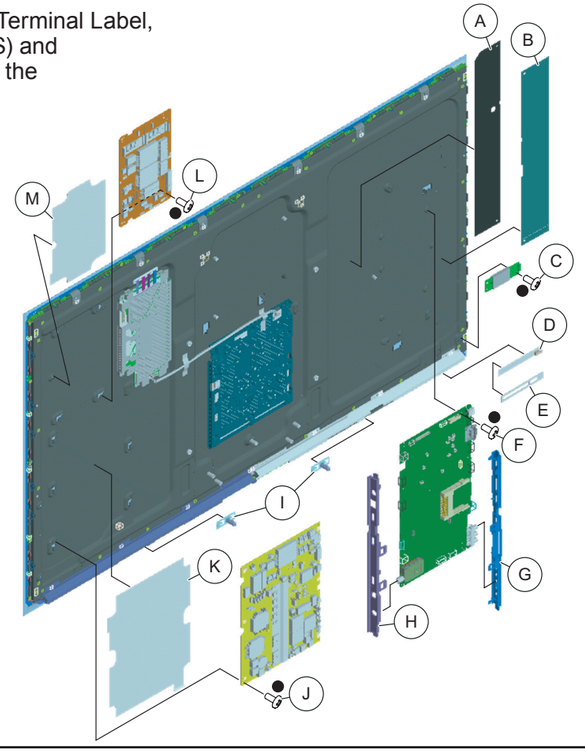
REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
101	NA	P-MOD/T-MOD (LCD PANEL ASSEMLY)	
		FOR ALL P-MOD/T-MOD (LCD PANEL ASSEMLY) PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
102	4-199-302-01	LABEL, TERMINAL (FOR US) (KDL-46NX810/55NX810/60NX810 ONLY)	
102	4-199-303-01	LABEL, TERMINAL (FOR LA/MX) (KDL-55NX811 ONLY)	
103	4-199-290-01	LABEL, SIDE JACK (L)	
104	1-487-819-11	CARD, WIRELESS LAN	
105	A-1782-538-A	HLT(STD), BOARD MOUNTED	
106	4-195-059-01	TAPE, PWB (H)	
🔒 107	A-1788-127-A	BUHT BOARD, COMPLETE	
		NOTE: For BUHT Board replacement, please refer to section 2-2. Adjustments after Replacing the BUHT Board or LCD Panel. NOTE: Final software is not installed on this BUHT Board. Install the update after replacing this board using the instructions provided with the software.	
108	4-188-665-11	BRACKET, SIDE JACK	
109	4-188-666-11	BRACKET, TERMINAL	
110	1-474-257-11	G9B (POWER) BOARD, COMPLETE (KDL-46NX810/55NX810/55NX811 ONLY)	
111	4-188-690-01	SHEET, INSULATION (G) (KDL-46NX810/55NX810/55NX811 ONLY)	
●	2-990-421-41	SCREW (+PSW) (M3X6)	

1-3-2. KDL-60NX810 ONLY

CAUTION: Refer to "Special Handling Instructions When Replacing the LCD Panel Assembly" on page 6.

Ⓐ Gently peel-off Terminal Label to detach from LCD Panel Assembly
Ⓑ Gently peel-off Side Jack Label to detach from LCD Panel Assembly
Ⓒ Remove 2 screws from Wireless LAN Card to detach from LCD Panel Assembly
Ⓓ Gently peel-off HLT Board and Disconnect 1 connector to detach from LCD Panel Assembly
Ⓔ Gently peel-off Tape PWB (H) to detach from HLT Board
Ⓕ Remove 9 screws from BUHT Board to detach from LCD Panel Assembly
Ⓖ Release 2 clips to detach Side Jack Bracket from BUHT Board
Ⓗ Release 2 clips to detach Terminal Bracket from BUHT Board
Ⓘ Slide-out 2 Attachment GL pieces to detach from LCD Panel Assembly
Ⓙ Remove 3 screws from G10 (Power) Board to detach from LCD Panel Assembly
Ⓚ Gently peel-off Insulation Sheet (G60) to detach from LCD Panel Assembly
Ⓛ Remove 1 screw from G11 (Power) Board to detach from LCD Panel Assembly
Ⓜ Gently peel-off Insulation Sheet (GS) to detach from LCD Panel Assembly

Note: The Tape PWB (H), Side Jack Label, Terminal Label, Insulation Sheet (G60), Insulation Sheet (GS) and Attachment GL pieces are not included with the LCD Panel Assembly and must be replaced when replacing the LCD Panel Assembly.



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

NOTE: Les composants identifies per 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 red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
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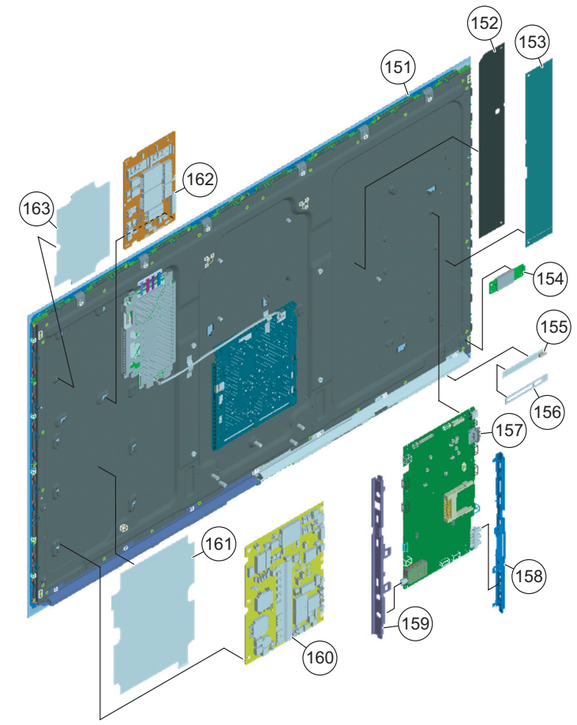
Check the Sony Electronics Service Information website for any additional service related issues for this model.



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
151	NA	P-MOD/T-MOD (LCD PANEL ASSEMLY)	
		FOR ALL P-MOD/T-MOD (LCD PANEL ASSEMLY) PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
152	4-199-302-01	LABEL, TERMINAL (FOR US)	
153	4-199-290-01	LABEL, SIDE JACK (L)	
154	1-487-819-11	CARD, WIRELESS LAN	
155	A-1782-538-A	HLT(STD), BOARD MOUNTED	
156	4-195-059-01	TAPE, PWB (H)	
🔒 157	A-1788-127-A	BUHT BOARD, COMPLETE	
		NOTE: For BUHT Board replacement, please refer to section 2-2. Adjustments after Replacing the BUHT Board or LCD Panel. NOTE: Final software is not installed on this BUHT Board. Install the update after replacing this board using the instructions provided with the software.	
158	4-188-665-11	BRACKET, SIDE JACK	
159	4-188-666-11	BRACKET, TERMINAL	
160	1-474-254-11	G10 (POWER) BOARD, COMPLETE	
161	4-193-111-01	SHEET, INSULATION (G60)	
162	1-474-255-11	G11 (POWER) BOARD, COMPLETE	
163	4-188-691-01	SHEET, INSULATION (GS)	
●	2-990-421-41	SCREW (+PSW) (M3X6)	

1-4. CLEANING THE LCD PANEL ASSEMBLY

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 the proper ventilation.

1-5. SCREW LEGEND

KDL-46NX810

	P/N	DESCRIPTION	REMARKS	TOTAL
■	4-167-019-11	SCREW, +PSW M3X8	RC(11), AC CVR(1), SP BOX to PNL(3)	15
□	4-159-298-01	SCREW, +PSW M4X10	RC to BTM FRM(2), BTM FRM to PNL(2)	4
▽	3-452-815-01	SCREW, +PSW M5X20	TABLE-TOP STAND(3)	3
●	2-990-421-41	SCREW (+PSW) (M3X6)	BUHT(9), G9B(3), WIFI(2), ANTENNAS(2), BEZ BTM(3)	19

KDL-55NX810/55NX811

	P/N	DESCRIPTION	REMARKS	TOTAL
■	4-167-019-11	SCREW, +PSW M3X8	RC(13), AC CVR(1)	14
□	4-159-298-01	SCREW, +PSW M4X10	RC to BTM FRM(2), BTM FRM to PNL(2)	4
▽	3-452-815-01	SCREW, +PSW M5X20	TABLE-TOP STAND(3)	3
●	2-990-421-41	SCREW (+PSW) (M3X6)	BUHT(9), G9B(3), WIFI(2), ANTENNAS(2), BEZ BTM(5)	21

KDL-60NX810

	P/N	DESCRIPTION	REMARKS	TOTAL
■	4-167-019-11	SCREW, +PSW M3X8	RC(13), AC CVR(1)	14
□	4-159-298-01	SCREW, +PSW M4X10	RC to BTM FRM(2), BTM FRM to PNL(2)	4
▽	3-452-815-01	SCREW, +PSW M5X20	TABLE-TOP STAND(5)	5
●	2-990-421-41	SCREW (+PSW) (M3X6)	BUHT(9), G10(3), G11(1), WIFI(2), ANTENNAS(2), BEZ BTM(5)	22

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

NOTE: Les composants identifies per 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 red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
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NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies per 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 red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
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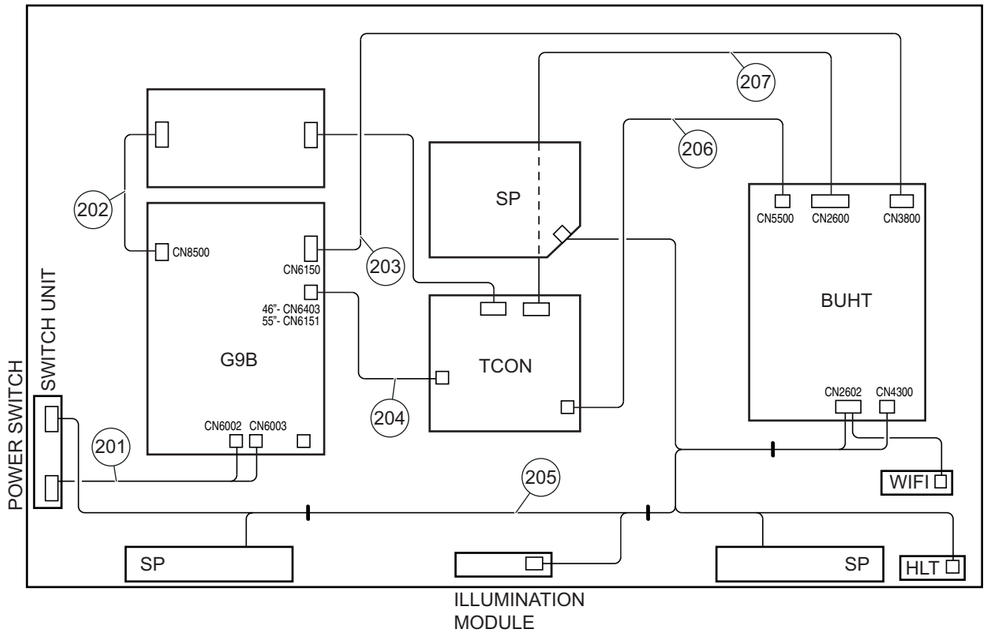
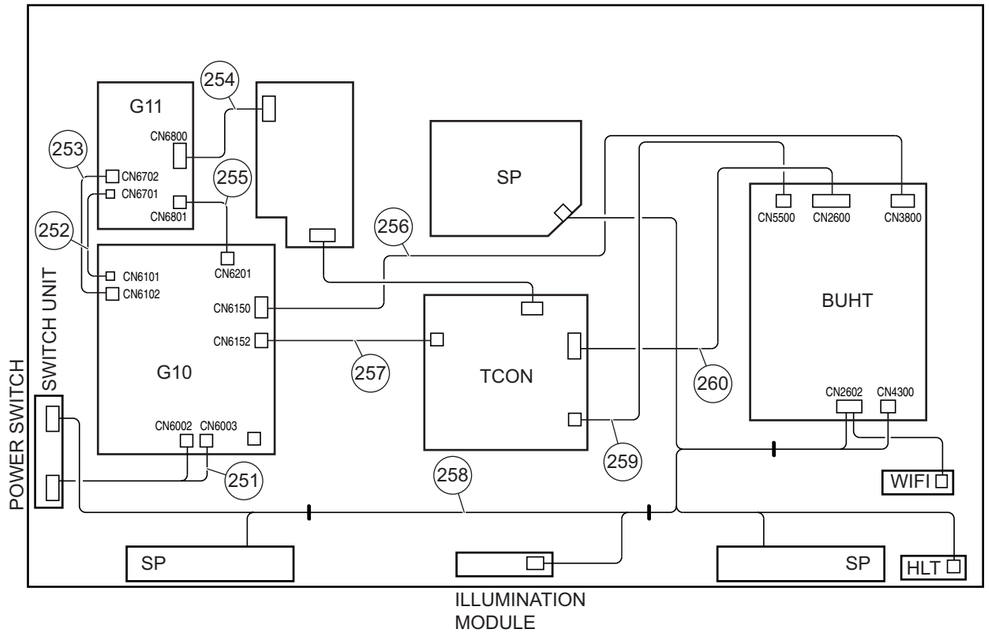
1-6. CONNECTORS

1-6-1. KDL-46NX810/55NX810/55NX811 ONLY



	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	201	1-838-371-11	CONNECTOR ASSEMBLY	(KDL-46NX810 ONLY)
	201	1-838-372-11	CONNECTOR ASSEMBLY	(KDL-55NX810/55NX811 ONLY)
	202	1-910-101-78	CONNECTOR ASSEMBLY 14P	(KDL-46NX810/55NX810/55NX811 ONLY)
	203	1-910-101-75	CONNECTOR ASSEMBLY 12P	(KDL-46NX810 ONLY)
	203	1-910-101-80	CONNECTOR ASSEMBLY 12P	(KDL-55NX810/55NX811 ONLY)
*	204	1-910-060-17	CONNECTOR ASSEMBLY 6P	(KDL-46NX810 ONLY)
*	204	1-910-060-21	CONNECTOR ASSEMBLY 6P	(KDL-55NX810/55NX811 ONLY)
	205	1-910-101-74	HARNESS ASSEMBLY	(KDL-46NX810 ONLY)
	205	1-910-101-79	HARNESS ASSEMBLY	(KDL-55NX810/55NX811 ONLY)
	206	1-910-101-76	CONNECTOR ASSEMBLY 8P	(KDL-46NX810 ONLY)
	206	1-910-101-81	CONNECTOR ASSEMBLY 8P	(KDL-55NX810/55NX811 ONLY)
	207	1-838-262-11	(LVDS) FLEXIBLE FLAT CABLE 51P	(KDL-46NX810 ONLY)
	207	1-838-263-11	(LVDS) FLEXIBLE FLAT CABLE 51P	(KDL-55NX810/55NX811 ONLY)

1-6-2. KDL-60NX810 ONLY



REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
251	1-838-371-11	CONNECTOR ASSEMBLY	
252	1-838-300-11	CONNECTOR ASSEMBLY	
253	1-910-101-88	CONNECTOR ASSEMBLY 3P	
254	1-910-101-87	CONNECTOR ASSEMBLY 14P	
255	1-910-101-89	CONNECTOR ASSEMBLY 5P	
256	1-910-101-84	CONNECTOR ASSEMBLY 12P	
257	1-910-101-85	CONNECTOR ASSEMBLY 6P	
258	1-910-101-83	HARNESS ASSEMBLY	
259	1-910-101-86	CONNECTOR ASSEMBLY 8P	
260	1-838-264-11	(LVDS) FLEXIBLE FLAT CABLE 51P)	

1-7. ACCESSORIES AND PACKING

	4-261-922-01	FLYER, BIV (KDL-46NX810/55NX810/60NX810 ONLY)
	3-299-071-04	FLYER, SAFETY
	4-178-676-41	MANUAL, INSTRUCTION (ENGLISH VERSION) (KDL-46NX810/55NX810/60NX810 ONLY)
	4-178-676-51	MANUAL, INSTRUCTION (FRENCH VERSION) (KDL-46NX810/55NX810/60NX810 ONLY)
	4-178-676-61	MANUAL, INSTRUCTION (SPANISH VERSION) (KDL-55NX811 ONLY)
	4-180-471-51	MANUAL, INSTRUCTION (KDL-55NX811 ONLY)
	4-198-235-51	MANUAL, INSTRUCTION (KDL-55NX811 ONLY)
⚠	1-838-333-11	POWER-SUPPLY CORD (WITH CONN.)
*	4-208-536-21	SUPPLEMENT(STAND INSTALLATION)

1-8. MISCELLANEOUS

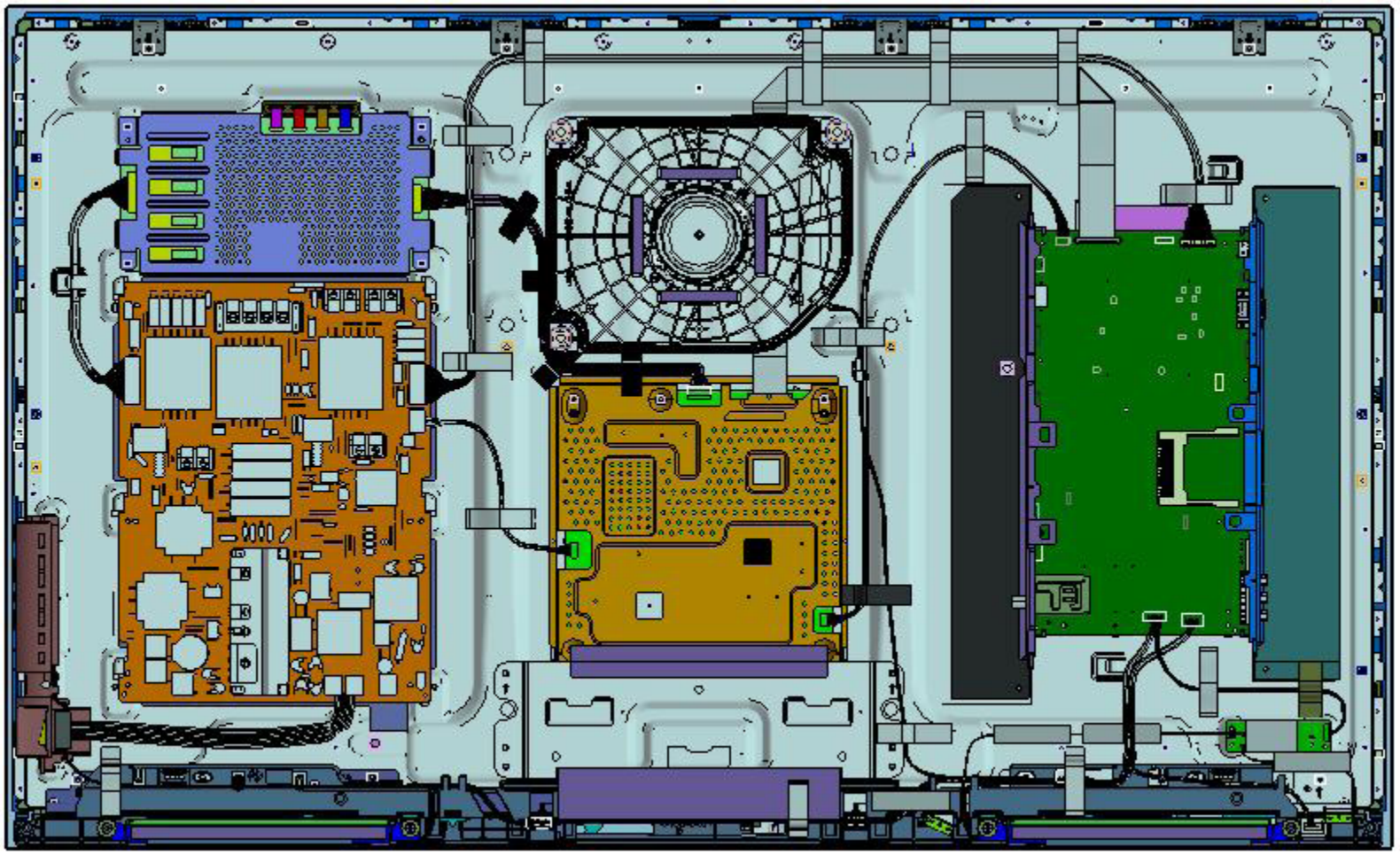
	X-2548-310-1	BAG,SCREW ASSEMBLY (E)
*	4-259-974-01	POST, PWB MINI
	4-100-136-01	SHEET (CORE), C (KDL-46NX810/55NX810/55NX811 ONLY)
*	4-188-689-01	SHEET, THERMAL (B2)
*	4-259-997-01	SHEET, THERMAL B SMALL
	X-2549-230-1	SUPPORT BELT KIT
	7-600-031-96	TAPE (3M 1350FW-1)15MMX66M WHT
	7-632-452-24	TAPE (NO.303) 18MMX35M YEL

1-9. REMOTE COMMANDER

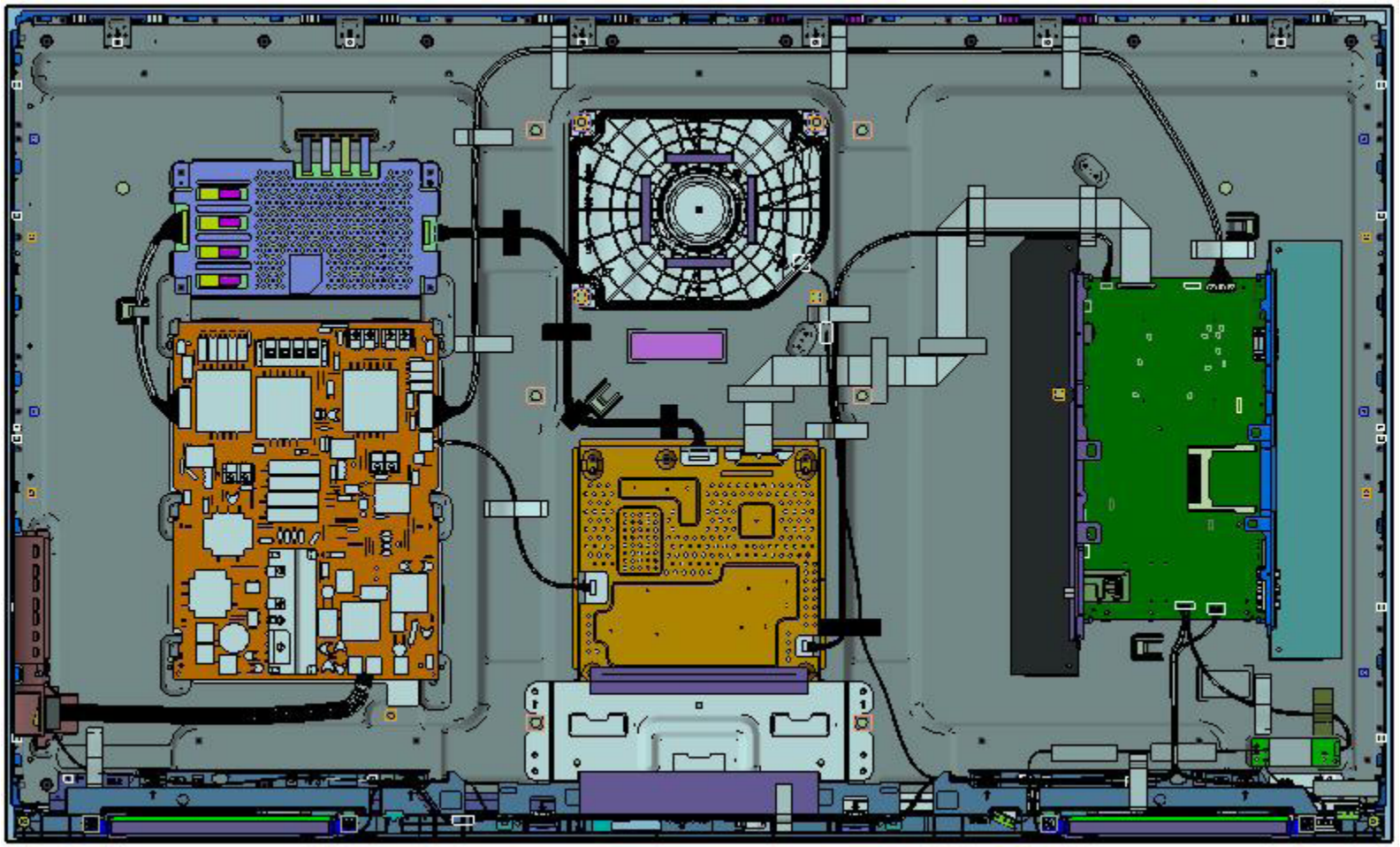
	1-487-710-12	REMOTE COMMANDER (RM-YD036) (FOR US) (KDL-46NX810/55NX810/60NX810 ONLY)
	1-487-820-12	REMOTE COMMANDER (RM-YD051) (FOR CND/MX ONLY)

1-10. WIRE DRESSING DIAGRAMS

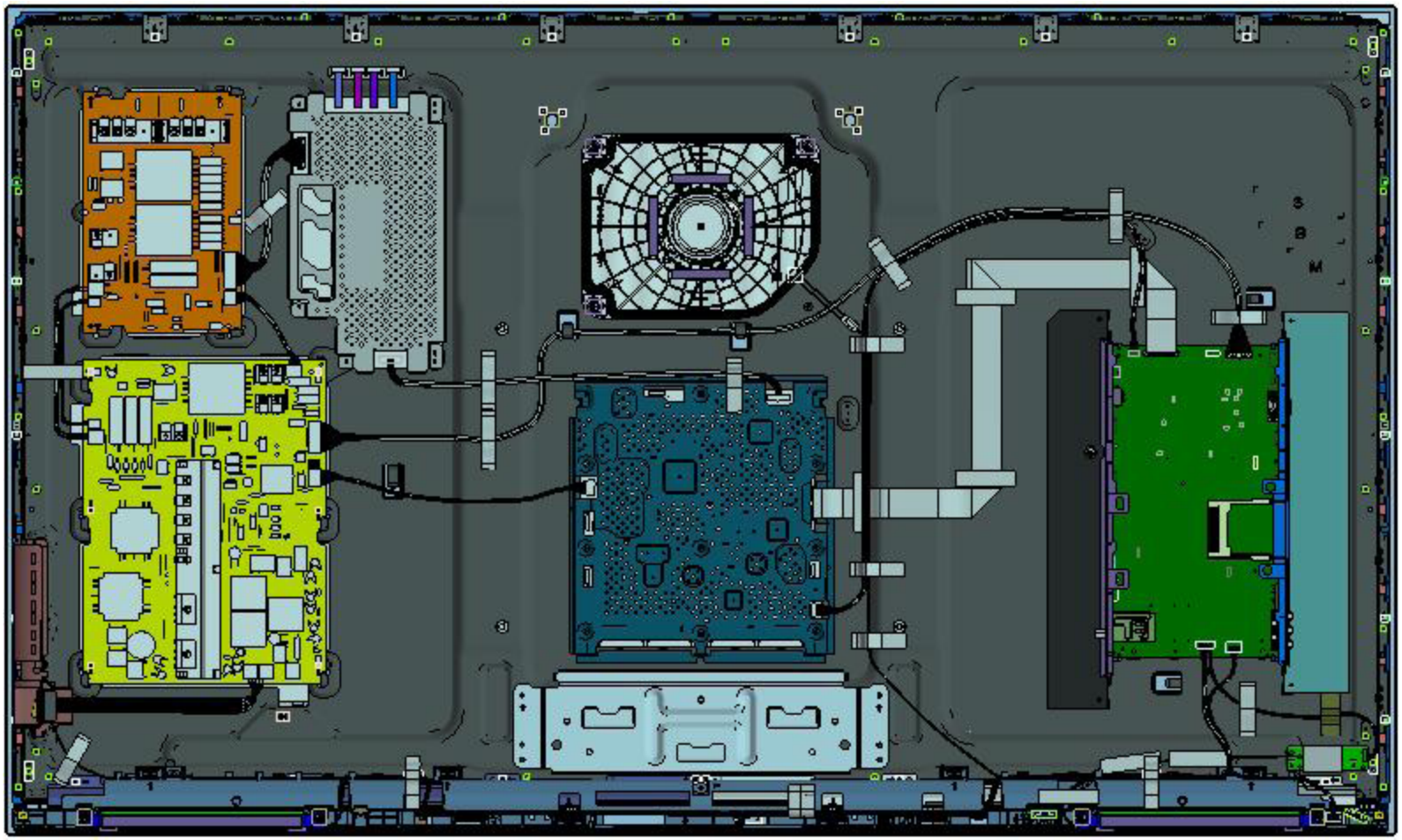
1-10-1.KDL-46NX810 ONLY



1-10-2.KDL-55NX810/55NX811 ONLY



1-10-3.KDL-60NX810 ONLY

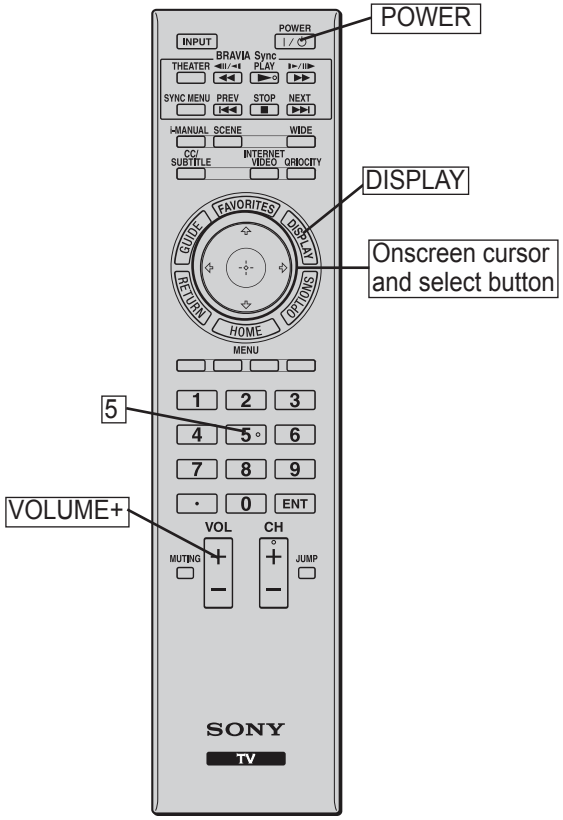


SEC 2. SERVICE ADJUSTMENTS

2-1. ACCESSING SERVICE ADJUSTMENT 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-YD036

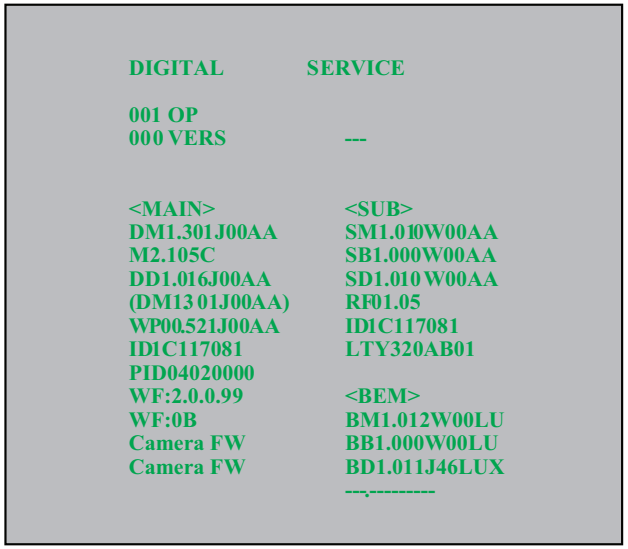
```
DIGITAL          SERVICE

001 OP
000 VERS         ---


<MAIN>           <SUB>
DM1.301J00AA     SM1.010W00AA
M2.105C          SB1.000W00AA
DD1.016J00AA     SD1.010W00AA
(DM13 01J00AA)   RF01.05
WP00.521J00AA    ID1C117081
ID1C117081       LTY320AB01
PID04020000
WF:2.0.0.99      <BEM>
WF:0B            BM1.012W00LU
Camera FW        BB1.000W00LU
Camera FW        BD1.011J46LUX
                 ---.--------
```

Sample Service Menu

2-1-1. VIEWING THE SERVICE MENUS

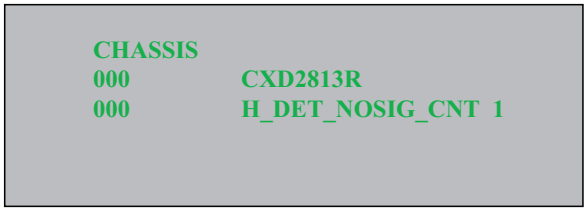
Use the Remote Commander to view the **Digital**, **Chassis** and **Sub** Service Menus and their options.

3. To display the **Service Menu** that contains the Category you want to adjust, press **JUMP** or **OPTIONS** on the Remote Commander.

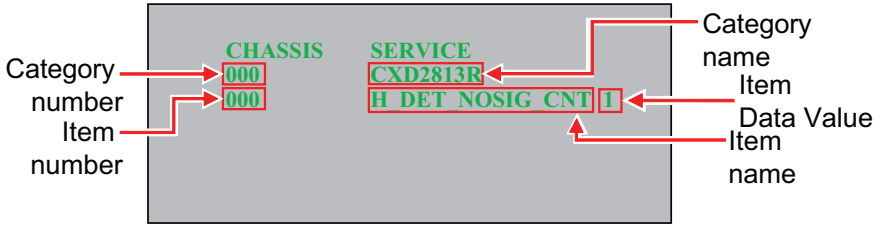


Sample Digital Service Menu

press **JUMP**
or **OPTIONS**



Within each Service Menu are Categories and data information.



Sample Chassis Service Menu

2-1-2. USING THE REMOTE COMMANDER TO VIEW OR CHANGE SERVICE DATA

Use the buttons on the Remote Commander to access the Service Menu items and adjust the Data Values.

DISPLAY ➡ Channel 5 ➡ Volume + ➡ POWER

4. To change the **Category**,
   press 2 to move to the Next Category or
   press 5 to go back to the Previous Category.
   Note: Pressing 2 or 5 only changes the Categories within the Service Menu displayed.
5. To change the **adjustment item**,
   press 1 to move to the Next Item or
   4 to go back to the Previous Item.
6. To change the **Data Value**,
   press 3 to increase the Data Value or
   6 to decrease the Data Value.
7. Press **MUTING** then press 0 to WRITE (Save) the changes.
8. To exit service mode, press **HOME** or turn the TV power off.

2-2. ADJUSTMENTS AFTER REPLACING THE BUHT BOARD OR LCD PANEL ASSEMBLY

The following procedures must be completed after replacing the BUHT Board or the LCD Panel Assembly

- ☑ Update the TV to the latest software version
- ☑ Select the Model
- ☑ Select the Destination
- ☑ Reset the Data Value in the Panel Engine Micro
- ☑ Verify the Emitter Output Level
- ☑ Verify model and panel information are correct
- ☑ Reconnect all cables

2-2-1. UPDATING THE SOFTWARE

After replacing the BUHT Board or the LCD Panel Assembly, you must update the software to the latest version.

Before you begin

- ☑ Disconnect all cables (RF, External input, Ethernet, etc.) from the TV

Instructions for updating the software are included with the software package. After completing the software update, proceed to "Selecting the Model".

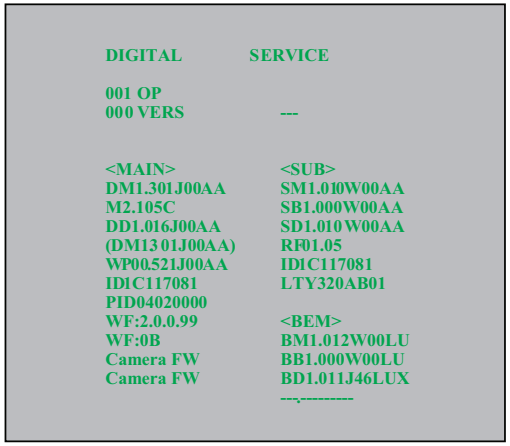
2-2-2. SELECTING THE MODEL

After replacing the BUHT Board or LCD Panel Assembly, go into Service Mode to set the Model data value.

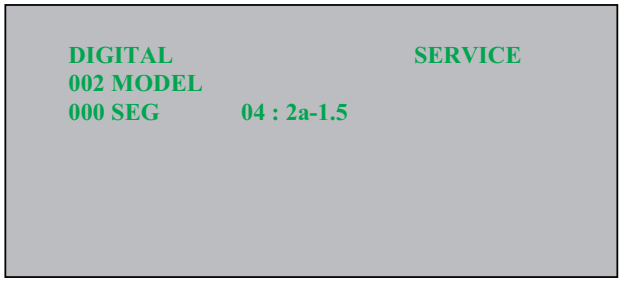
1. TV must be in standby mode. (Power off).
2. Access Service Mode.
   Press the following buttons on the Remote Commander within a second of each other:

DISPLAY → Channel 5 → Volume + → POWER

3. Display the **DIGITAL Service Menu**.
   NOTE: There are 4 Service Menus for this model, DIGITAL, CHASSIS, SUB, and PEM. If the DIGITAL Service Menu is not displayed, press **JUMP** or **OPTIONS** on the Remote Commander.

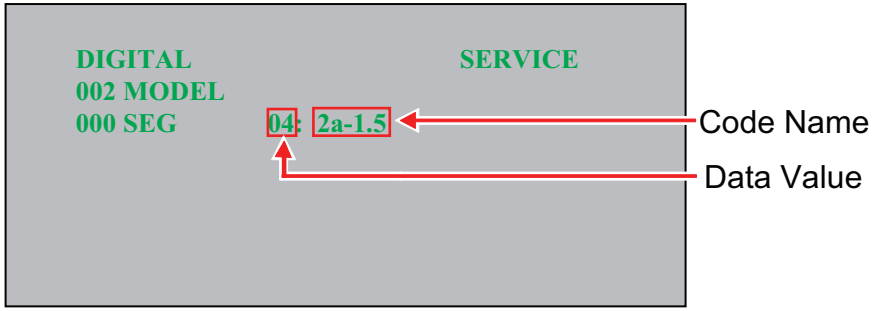


4. Press 2 to move to the **002 MODEL** (Next) category.



5. Using the table, press 3 to increase the data value or 6 to decrease the data value, to match the model of the TV.

Chassis	Model Name	Data Value	Code Name
AZ1-H	KDL-46NX810	04	2a-1.5
AZ1-H	KDL-55NX810	04	2a-1.5
AZ1-H	KDL-55NX811	04	2a-1.5
AZ1-H	KDL-60NX810	04	2a-1.5

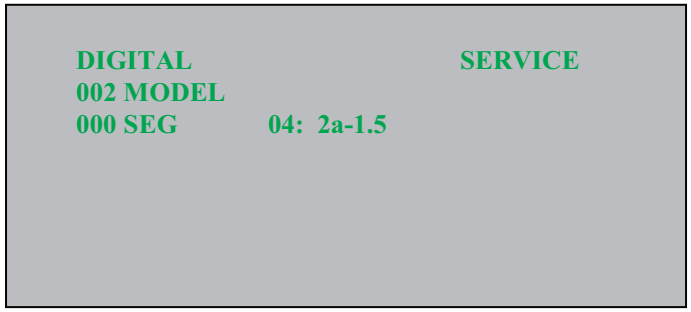


6. Proceed to “Selecting the Destination”.

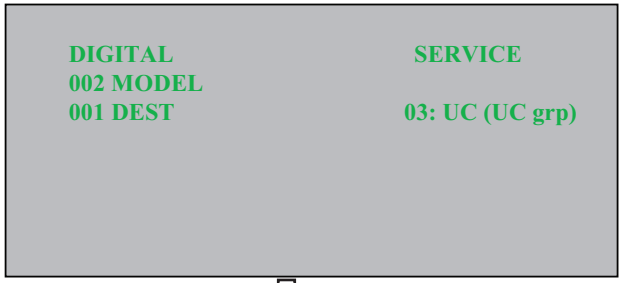
2-2-3. SETTING THE DESTINATION

After replacing the BUHT Board or the LCD Panel Assembly, the destination location must be set.

CAUTION: Selecting the incorrect destination may requiring replacing the BUHT Board.

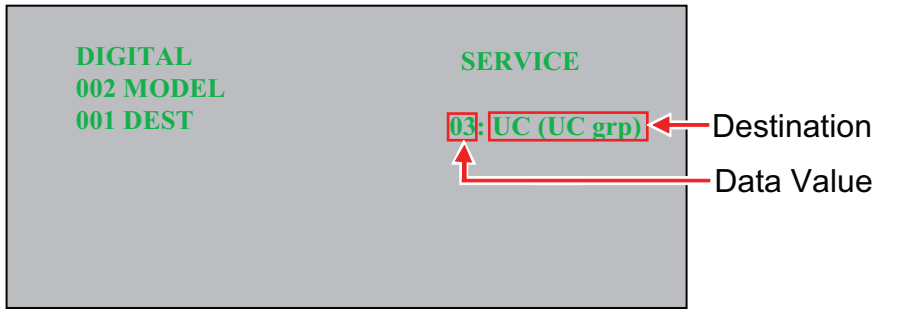


7. Press 1 to move to "**001 DEST**" sub Category.



8. Using the table, press 3 to increase the data value or 6 to decrease the data value, to select the destination of the TV.

GROUP	DESTINATION CODE	DATA VALUE	DESTINATION
UC grp	UC	3	US/CND
	LTN-D	16	MX/ LATIN AMERICA



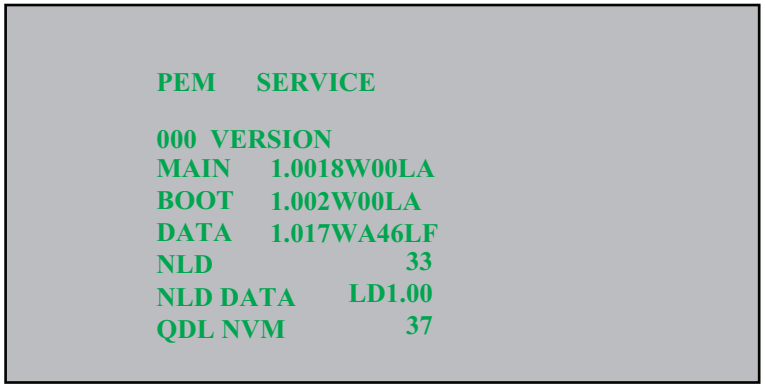
CAUTION: Verify the DESTINATION is set correctly before proceeding to the next step. If another destination Data Value is selected, it may possibly corrupt the software which would require a BUHT Board replacement.

9. After verifying the destination data value displays, press 0 to WRITE (Save) the changes.
10. Proceed to "Resetting the Data Value in the Panel Engine Micro".

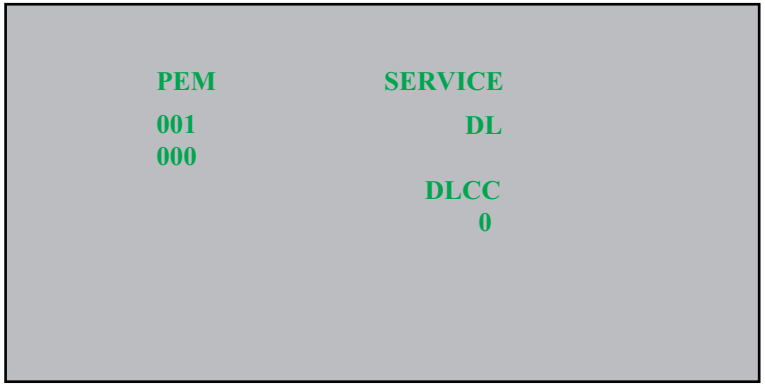
2-2-4. RESETTING THE DATA VALUE IN THE PANEL ENGINE MICRO

For the models listed in this manual, the Panel Engine Micro must be reset whenever the BUHT Board, the LCD Panel, the TCON board, or the driver board is replaced.

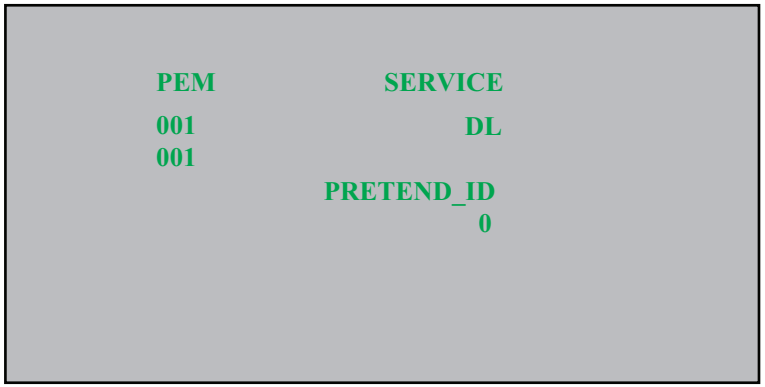
11. Press JUMP or OPTIONS on the Remote Commander until the **PEM Service Menu** displays.



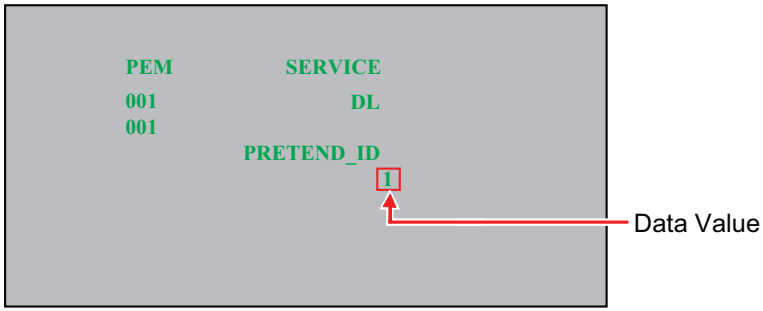
12. Press 2 to move to the **001 DL** category.



13. Press 1 to move to the **001 PRETEND_ID** item.

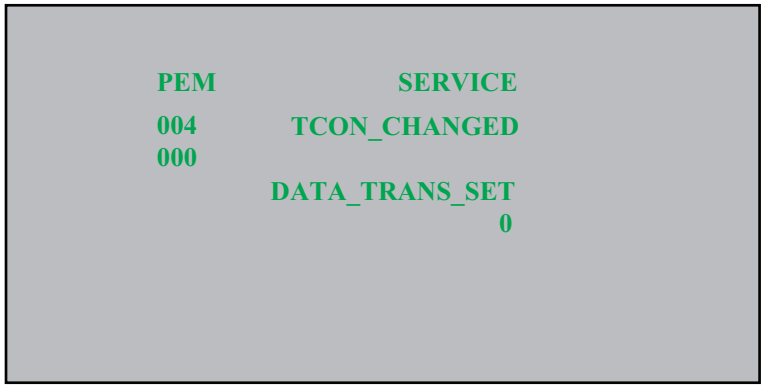


14. Press 3 to increase the data value to 1.

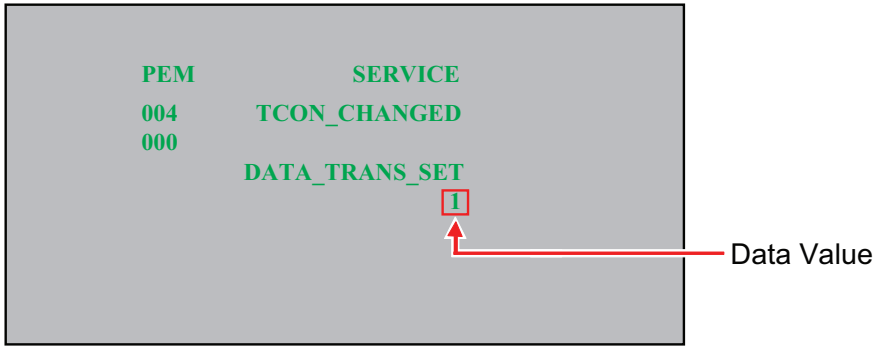


15. After verifying the data value displays, press MUTING to WRITE (Save) the changes.

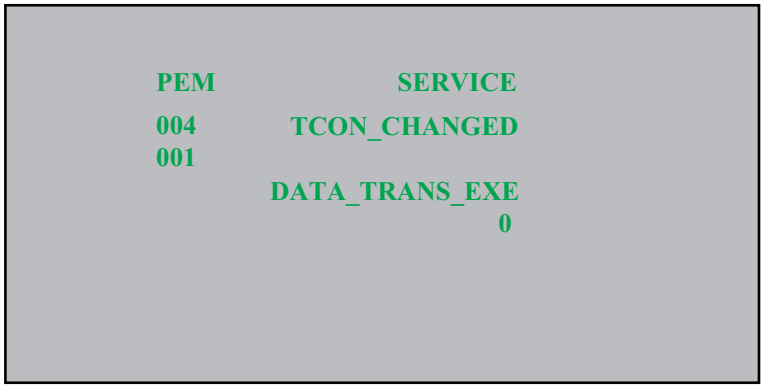
16. Press 2 until the **004 TCON_CHANGED** category displays.



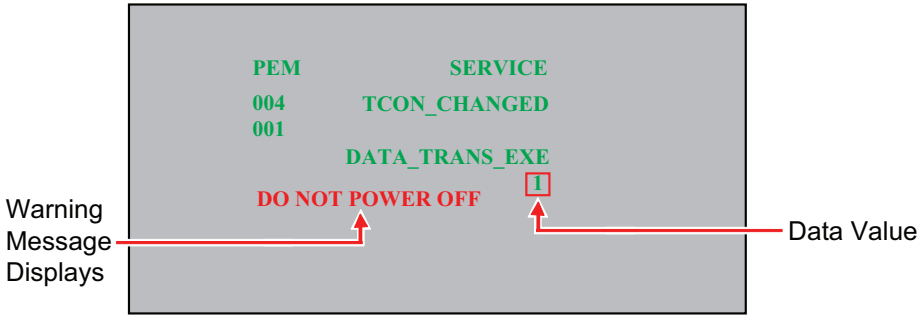
17. For the **DATA_TRANS_SET** item, press 3 to increase the data value to 1.



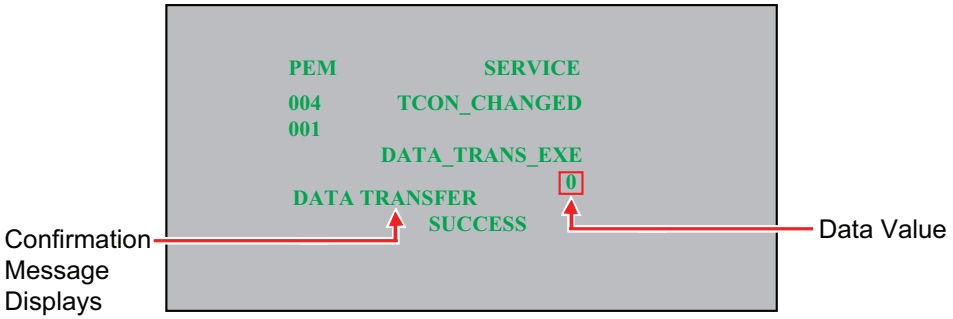
18. Press 1 until the **001 DATA_TRANS_EXE** item displays.



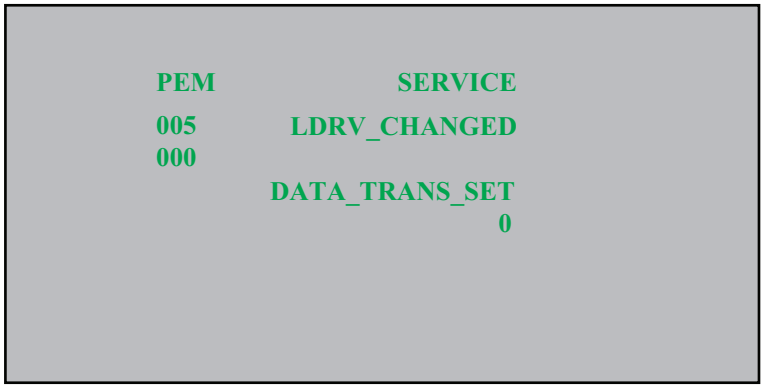
19. For the **DATA_TRANS_EXE** item, press 3 to increase the data value to 1 to execute the update.
NOTE: A warning message indicating the TV cannot be turned off displays.



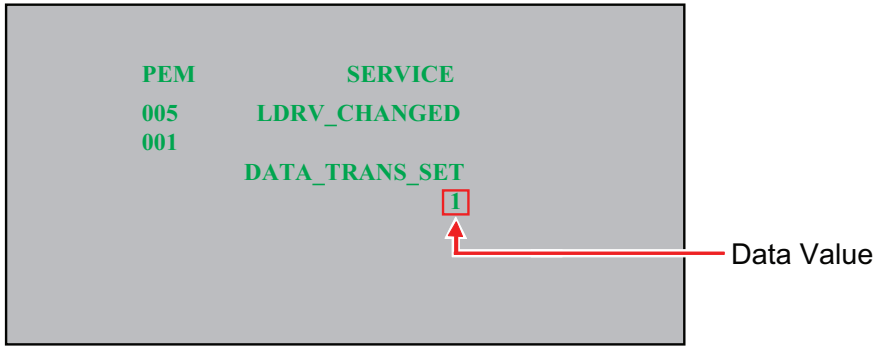
After the update is complete, the data value changes back to 0 and a message indicating the data transter was successful displays.



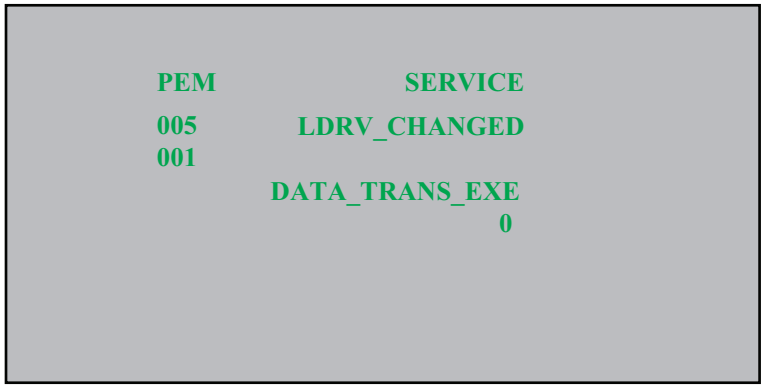
20. Press 2 until the **005 LDRV_CHANGED** item displays.



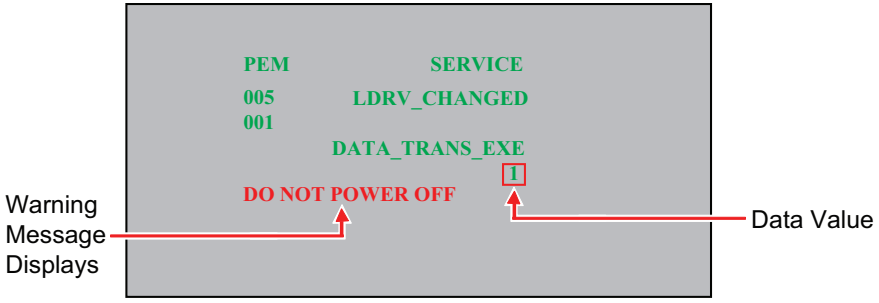
21. For the **DATA_TRANS_SET** item, press 3 to increase the data value to 1.



22. Press 1 until the **001 DATA_TRANS_EXE** item displays.



23. For the **DATA_TRANS_EXE** item, press 3 to increase the data value to 1 to execute the update.
NOTE: A warning message indicating the TV cannot be turned off displays.



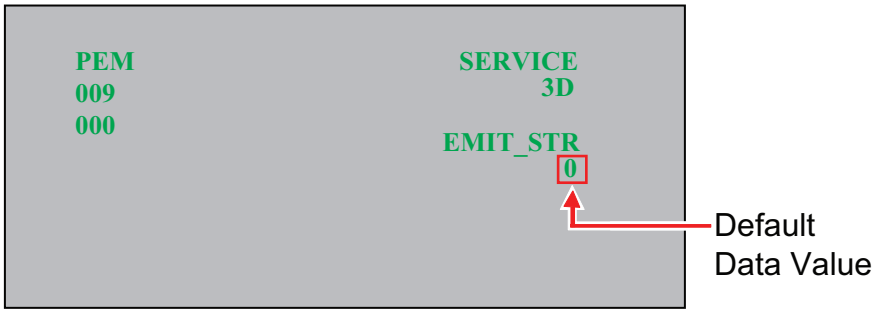
After the update is complete, the data value changes back to 0 and a message indicating the data transter was successful displays.

24. Proceed to “Verifying the Emitter Output Level”.

2-2-5. VERIFYING THE EMITTER OUTPUT LEVEL

If necessary, the emitter LED output level can be increased or decreased.

25. Press 2 until the **009 3D** category displays.



26. Using the table below, press 3 to increase or press 6 to decrease the data value.

DATA VALUE	SETTING
0	Strong (Default)
1	Weak

27. Press **MUTING** then press 0 to WRITE (Save) the changes.
28. Exit Service Mode by turing the TV Power Off.
29. Proceed to “Verifying the Model and Panel Information”.

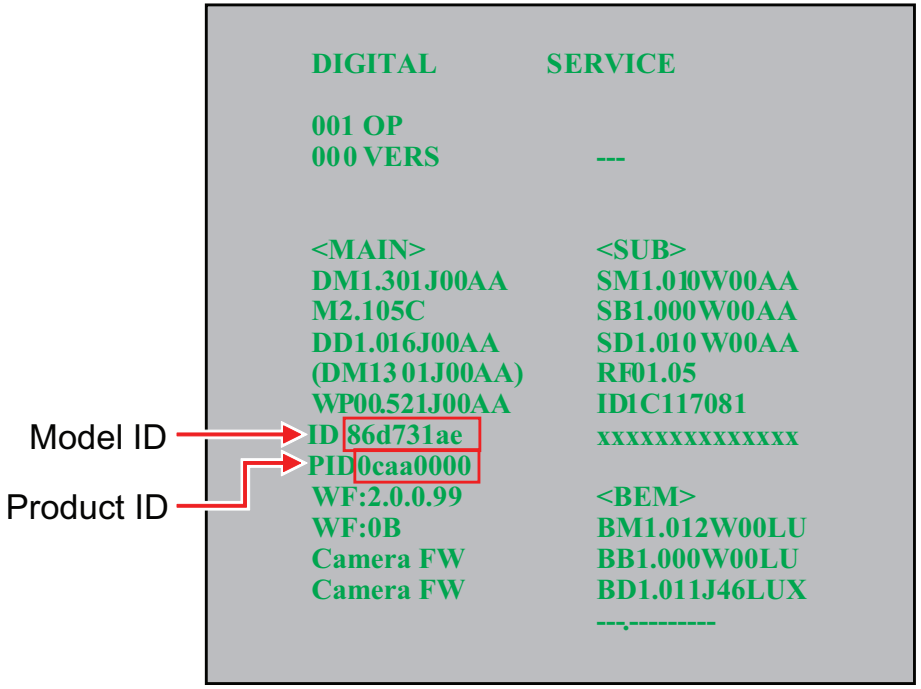
2-2-6. VERIFYING THE MODEL AND PANEL INFORMATION

After saving the changes to the service data, verify the information.

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

DISPLAY → Channel 5 → Volume + → POWER

3. Display the **DIGITAL Service Menu**.
   NOTE: There are 3 Service Menus for this model, DIGITAL, CHASSIS, and SUB. If the DIGITAL Service Menu is not displayed, press JUMP or OPTIONS on the Remote Commander.



4. Using the table, verify the Model ID and the Product ID match the information in the Service Menu.

Model Name	Model ID	Product ID
KDL-46NX810	86d731ae	0caa0000
KDL-46NX810	86d731c2	0caa0000
KDL-55NX810	86d731af	0caa0000
KDL-55NX810	86d731c3	0caa0000
KDL-55NX811	86d731af	0caa0000
KDL-55NX811	86d731af	40aa0000
KDL-55NX811	86d731c3	0caa0000
KDL-55NX811	86d731c3	40aa0000
KDL-60NX810	86d731b0	0caa0000
KDL-60NX810	86d731b0	0caa0000
KDL-60NX810	86d731c4	0caa0000

5. Exit Service Mode by pressing HOME or turn the TV power off.
6. Proceed to “Reconnecting All Cables”.

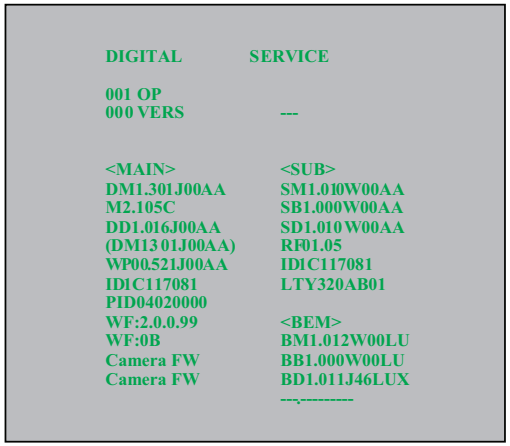
2-2-7. RECONNECTING ALL CABLES

After completing the changes to service mode, reconnect all the cables (RF, External input, Ethernet, etc.) to the TV then verify the TV set picture.

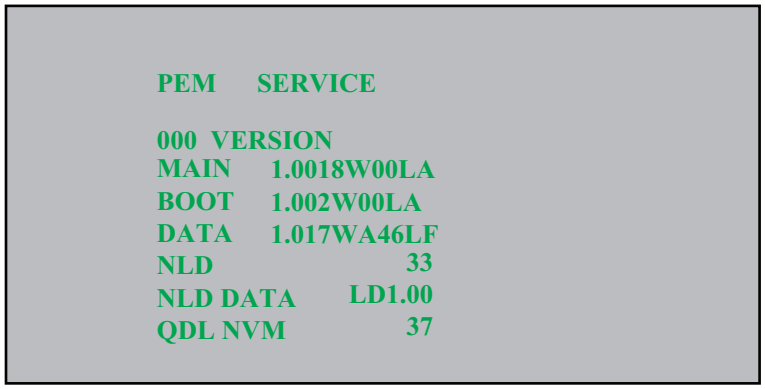
2-3. WHITE BALANCE ADJUSTMENTS

By default the White Balance Adjustments are set for optimal viewing. If White Balance Adjustments are requested, the data is located on the Panel Engine Micro (PEM) Service Menu.

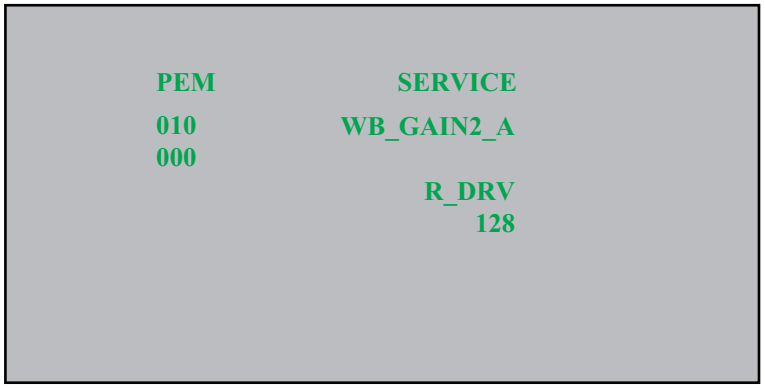
1. TV must be in Standby Mode. (POWER Off).
2. Press the following buttons on the Remote Commander within a second of each other:
   DISPLAY → Channel 5 → Volume + → POWER.
3. The **DIGITAL Service Menu** displays.
   NOTE: There are 4 Service Menus for these models, DIGITAL, CHASSIS, SUB, and PEM.



4. Press JUMP or OPTIONS on the Remote Commander until the **PEM Service Menu** displays.



5. Press 2 until the **010 WB_GAIN2_A** category displays.



6. Using the table below, press 1 to select the White Balance Adjustment item, then press 3 to increase or press 6 to decrease the data value.
NOTE: The data value for all White Balance Adjustments must be set between 0~255.

ITEM NUMBER	ITEM NAME	DEFAULT DATA VALUE SETTING
000	R_DRV	128
001	G_DRV	128
002	B_DRV	128
003	R_BKG	128
004	G_BKG	128
005	B_BKG	128

7. After completing all White Balance Adjustments, press **MUTING** then press 0 to WRITE (Save) the changes.

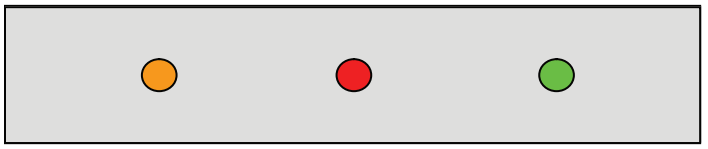
2-4. RESETTING THE TV TO FACTORY CONDITION

Use the following instructions to restore the User Adjustments and Channel Memory settings to the preset factory conditions.

1. While holding down the ⏏ on the Remote Commander, press the POWER button on the TV Switch Unit of the set. The set restarts and displays the Initial Setup screen. This may take several minutes.

2-4-1. RESETTING THE TV TO FACTORY CONDITION USING 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.
3. If necessary, press **JUMP** or **OPTIONS** to go to DIGITAL mode.
4. Press 8.
"SERVICE" changes to green RST.
5. Press **MUTING**.
RST executes the command and displays EXE.
6. Press 0 .
EXE-RST displays green, then red indicating the TV is writing the data.
7. When the process is complete the green SERVICE text displays and the LED display as shown below:

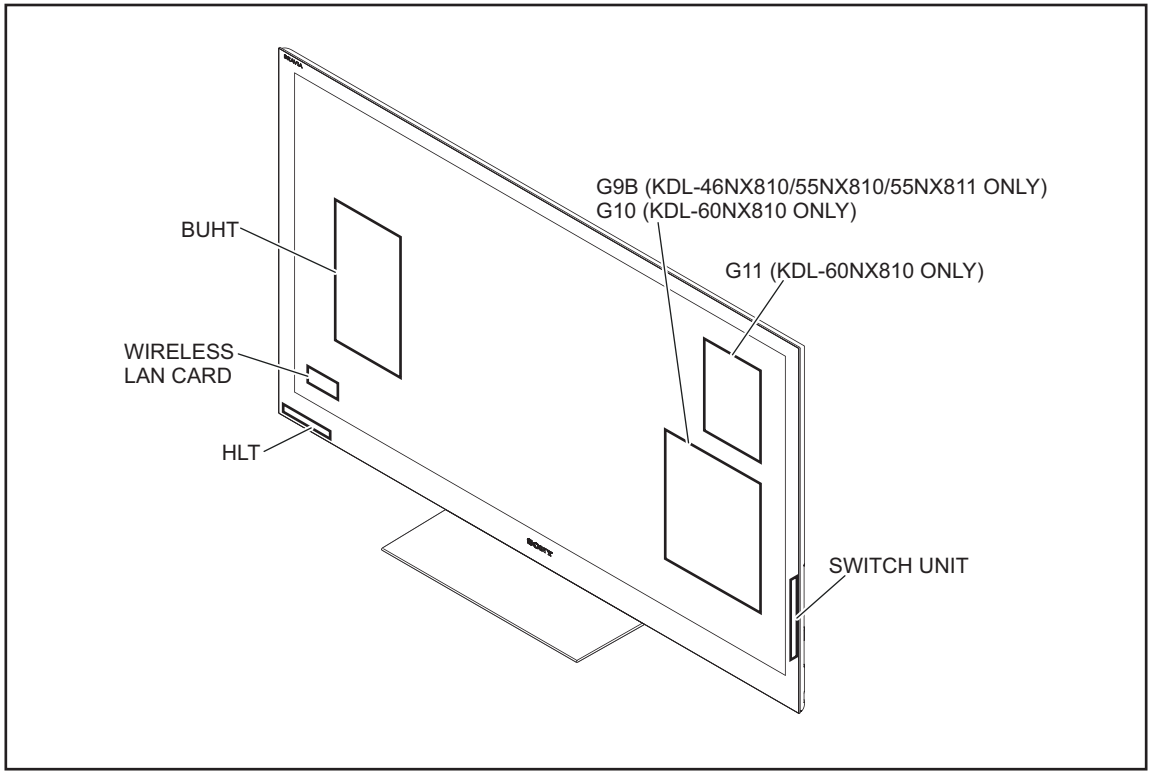


TIMER Standby POWER

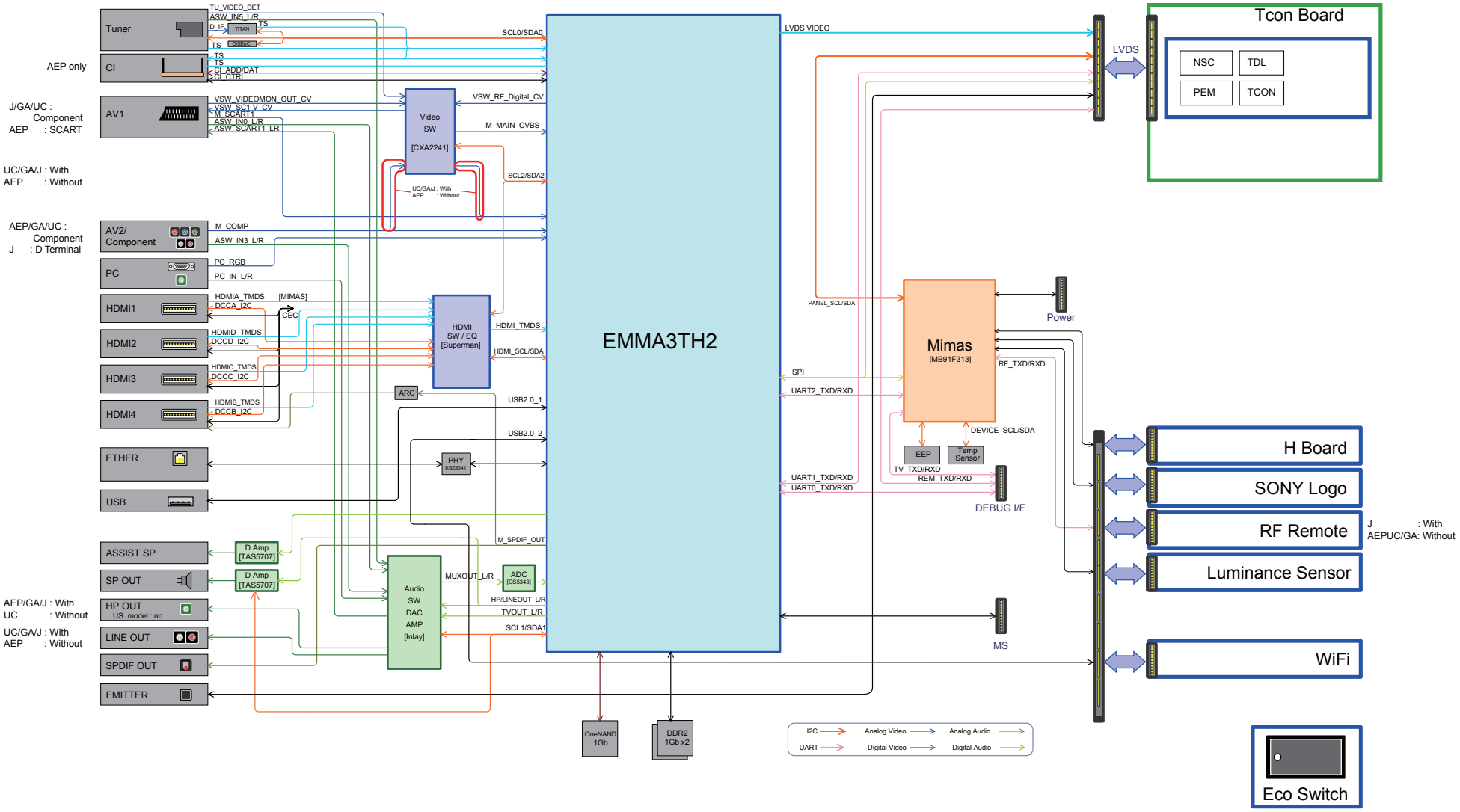
8. Cycle AC Power (Unplug and Plug AC Cord from the AC Outlet).
9. The set restarts and displays the Initial Setup screen. This may take several minutes.

SEC 3. DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. BLOCK DIAGRAM



Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

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HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

AZ1-H CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION
KDL-46NX810	RM-YD036	US
KDL-46NX810	RM-YD051	CND
KDL-55NX810	RM-YD036	US
KDL-55NX810	RM-YD051	CND
KDL-55NX811	RM-YD051	MX
KDL-60NX810	RM-YD036	US
KDL-60NX810	RM-YD051	CND

LEVEL 3
CONFIDENTIAL

CONFIDENTIAL

ELECTRICAL SERVICE MANUAL

INTERNAL ONLY

ORIGINAL MANUAL ISSUE DATE: 8/2010

REVISION DATE	SUBJECT
8/2010	No revisions or updates are applicable at this time.
8/11/2010	Revised instructions for “Special Handling Instructions When Replacing the LCD Panel Assembly”. Replaced page 5.

LCD DIGITAL COLOR TV

SONY®

9-888-349-52

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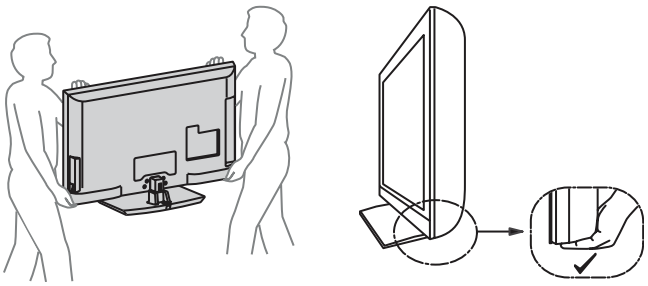
WARNINGS AND CAUTIONS - ENGLISH

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

- Carry the TV with the 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 damage.



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.

HANDLING THE GLASS ASSEMBLY

Use the following precautionary guidelines when replacing the Glass Assembly to avoid material degradation or screen coating degradation, and ensure that dust, dirt, or fingerprints are not left between the glass and the LCD panel.

- ☑ Replace the Glass Assembly in a brightly lit and clean room.
- ☑ Place the replacement Glass Assembly on a dark cloth to make it easier to see dust and dirt particles.
- ☑ Wear anti static gloves to avoid leaving finger prints on the glass.
- ☑ Use a dry, soft MicroFiber cloth, such as a lint free polishing cloth, to gently wipe the glass to remove any dust or dirt particles.
- ☑ If the glass needs additional cleaning, slightly moisten the cloth with a diluted mild soap or mild detergent solution, or use a compressed air duster (spray can type).
- ☑ After replacing the Glass Assembly, verify there are no dark spots or finger prints visible on the screen.

CAUTION

- ⦸ Do Not use paper towels, any type of abrasive pad, rags, rubber or vinyl materials to clean the screen. Using these materials could easily scratch the screen which may result in permanent damage.
- ⦸ Do Not se any cleaning product containing alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, ammonia, benzene, thinner or insecticide. Using any of these harsh cleaners may result in permanent damage to the screen.
- ⦸ Do Not spray water or detergent directly onto the TV screen . If liquid drips into the bottom of the screen it may cause a failure.

SPECIAL HANDLING INSTRUCTIONS WHEN REPLACING THE LCD PANEL ASSEMBLY

Use the following precautionary guidelines when handling the LCD Panel Assembly to avoid material degradation or screen coating degradation, and ensure that dust, dirt, or fingerprints are not left between the glass and the LCD Panel Assembly.

1. After removing the boards and connectors, note where the frame is on the panel. (See Figure 1)
2. Lift the LCD Panel Assembly by holding the top and bottom of the panel approximately 200mm from the edge with your palms on the back of the panel. (See Figure 2)

   CAUTION: Lifting or holding the panel at the corners may damage the panel.
3. Use the same method when taking the replacement panel out of the carton. (See Figure 3)

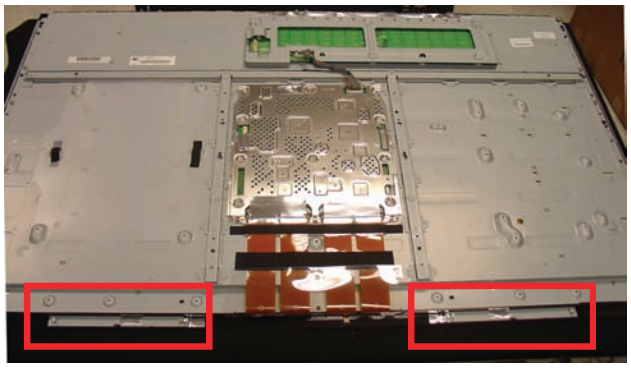


Figure 1

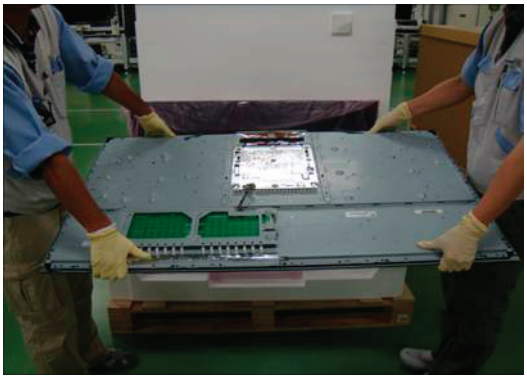


Figure 2

Figure 3

CAUTION: DO NOT lift the LCD Panel by holding the short side of the panel or by placing your palms on the front glass. (See Figures 4 & 5)

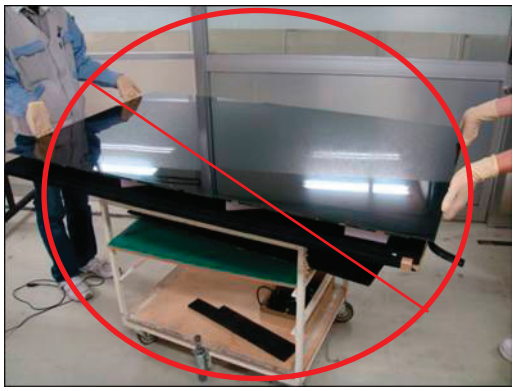


Figure 4

Figure 5

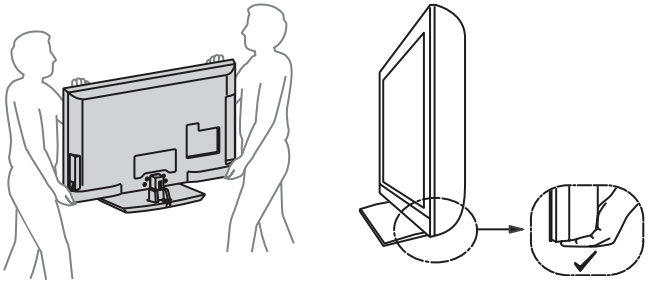
WARNINGS AND CAUTIONS - FRENCH

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

- 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, l'emplacement des mains est très important pour votre sécurité, ainsi que pour éviter de causer des dommages.



ALERTE!!

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre 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 identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants Sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures 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 ⚠ 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.

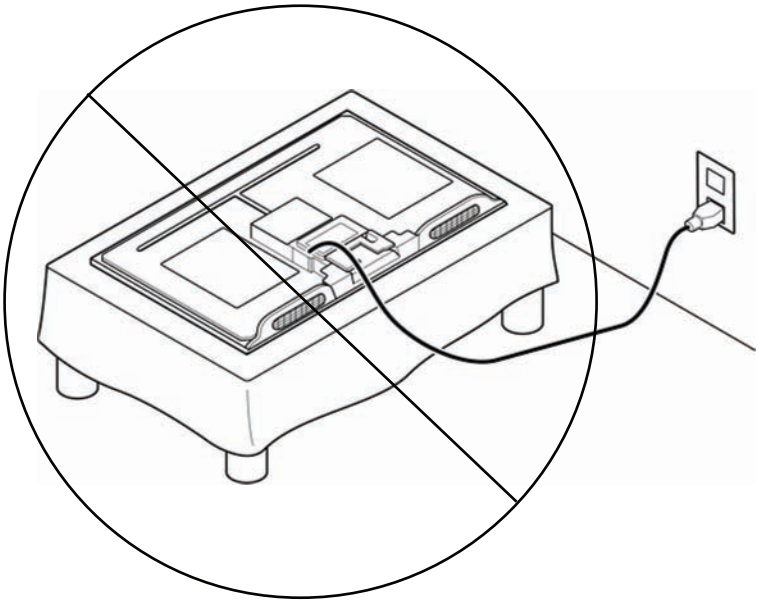
USE CAUTION WHEN HANDLING THE LCD ASSEMBLY PANEL

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

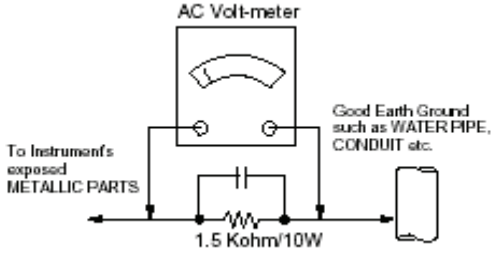
When installing the LCD Assembly Panel on a wall, the LCD Assembly Panel must be secured using the 4 mounting holes on the rear cover.

To avoid damaging the LCD Assembly Panel:

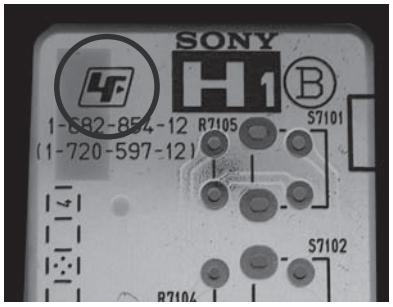
- → do not press on the panel or frame edge to avoid the risk of electric shock.
- → do not scratch or press on the panel with any sharp objects.
- → do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
- → do not expose the LCD Panel Assembly to direct 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 Assembly 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).
- → during the repair, DO NOT leave the Power On for more than 1 hour while the TV is face down on a cloth.



LEAKAGE CURRENT HOT CHECK CIRCUIT



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.



example

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.

Leakage Test

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 milliampmeter. 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).

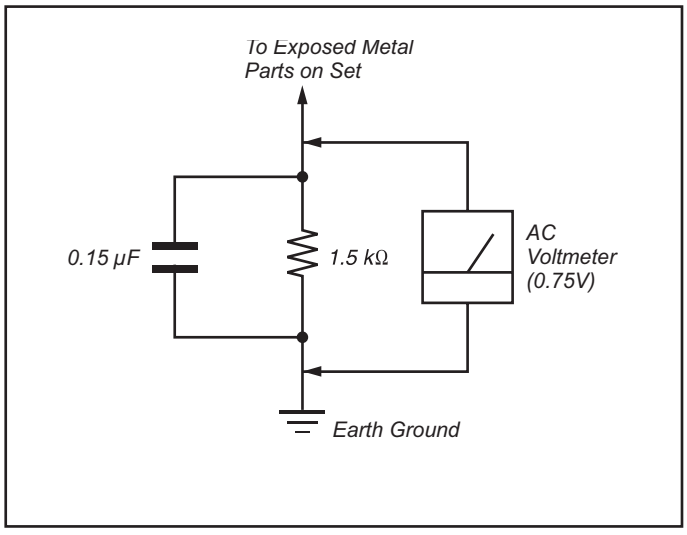


Figure A. Using an AC voltmeter to check AC leakage.

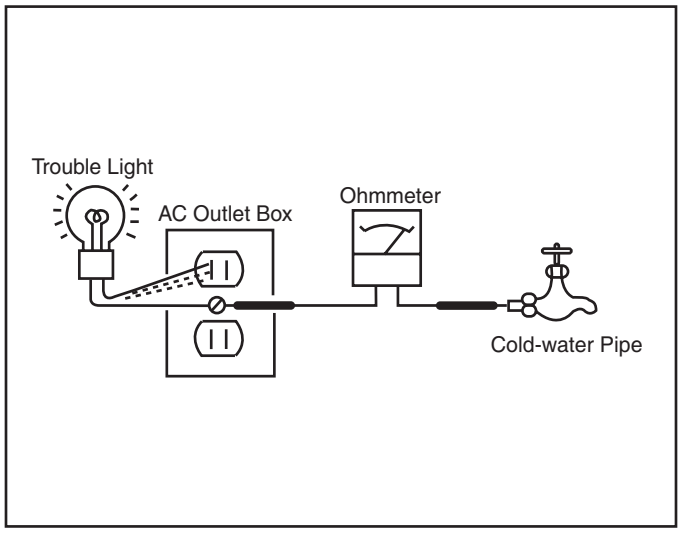
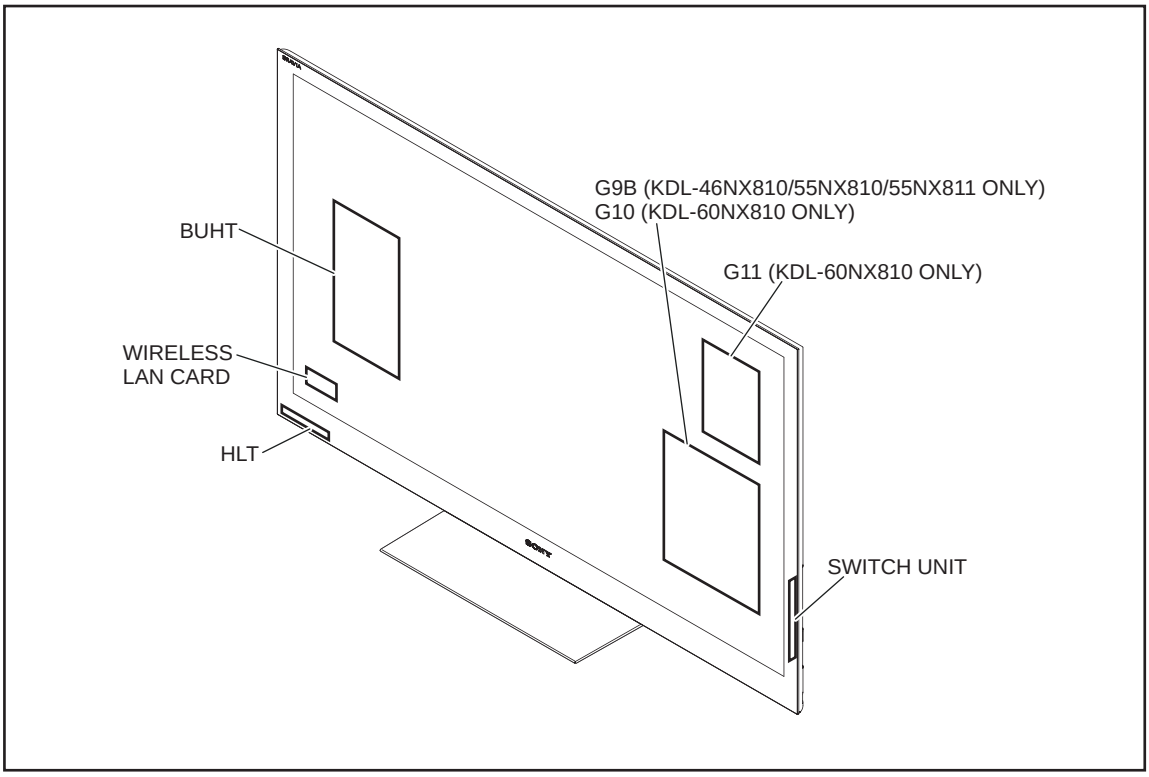


Figure B. Checking for earth ground.

SECTION 1: DIAGRAMS

1-1. CIRCUIT BOARDS LOCATION



1-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_{16}$ 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 10MΩ 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 identifies per un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

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

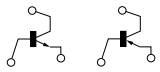
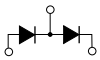
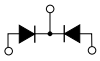
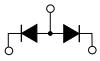
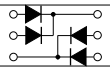
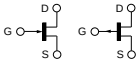
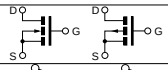
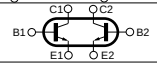
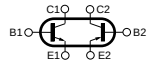
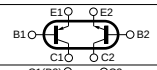
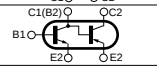
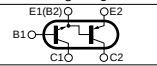
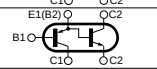
CAPACITOR

: 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

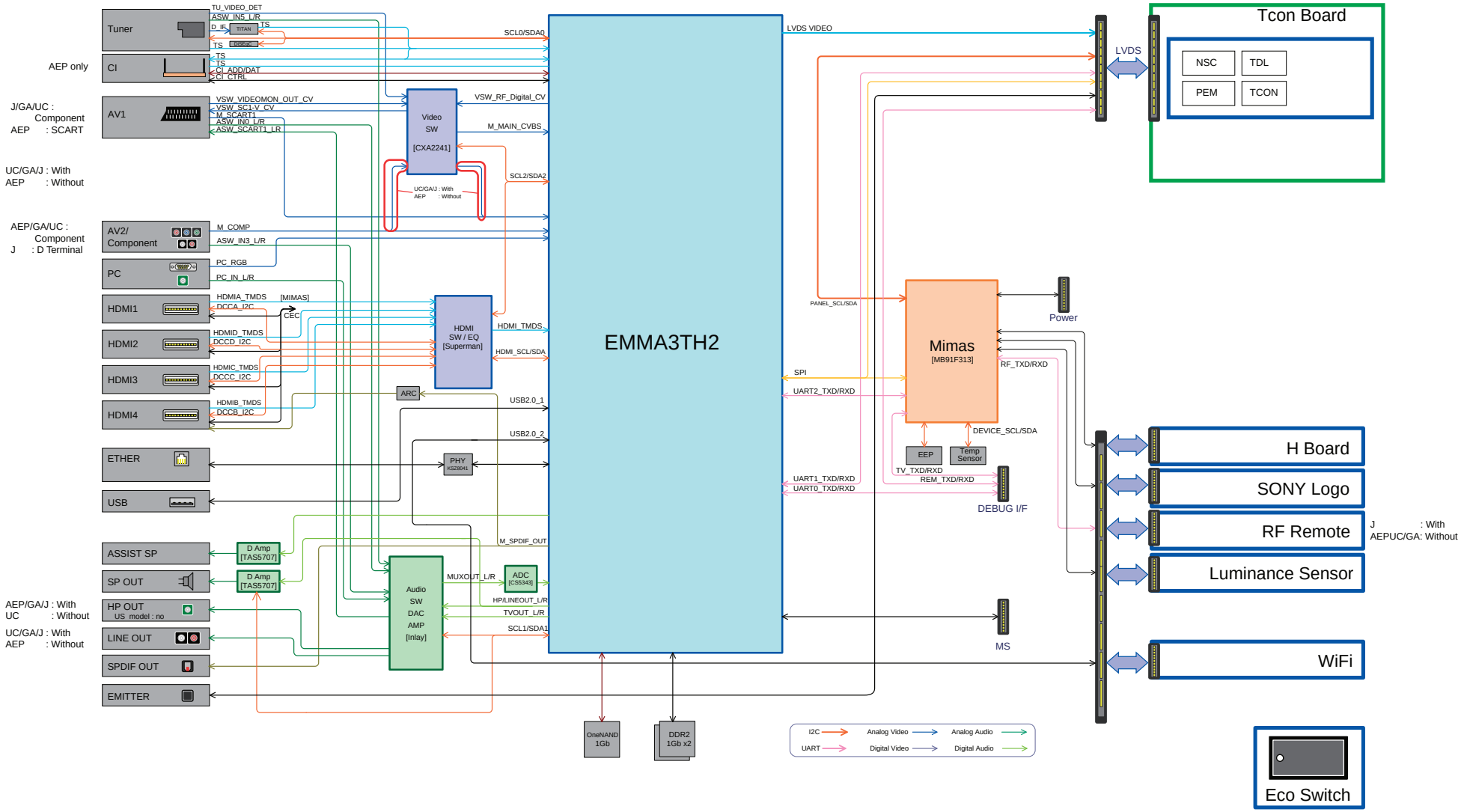
Terminal name of semiconductors in silk screen printed circuit (※)

	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 Cathode 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 semiconductor			

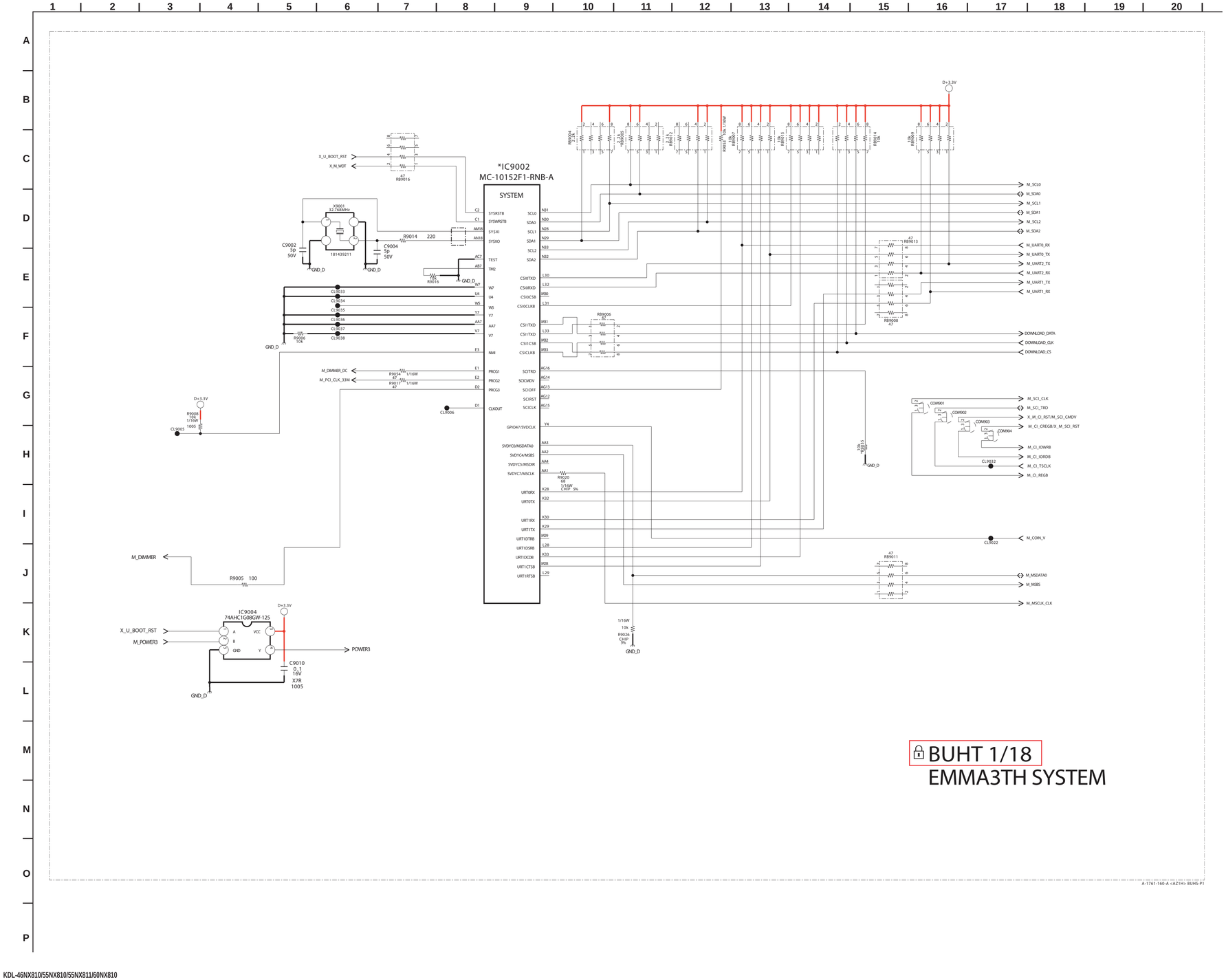
(Chip semiconductors that are not actually used are included.)

Ver.1.6

1-3. BLOCK DIAGRAM



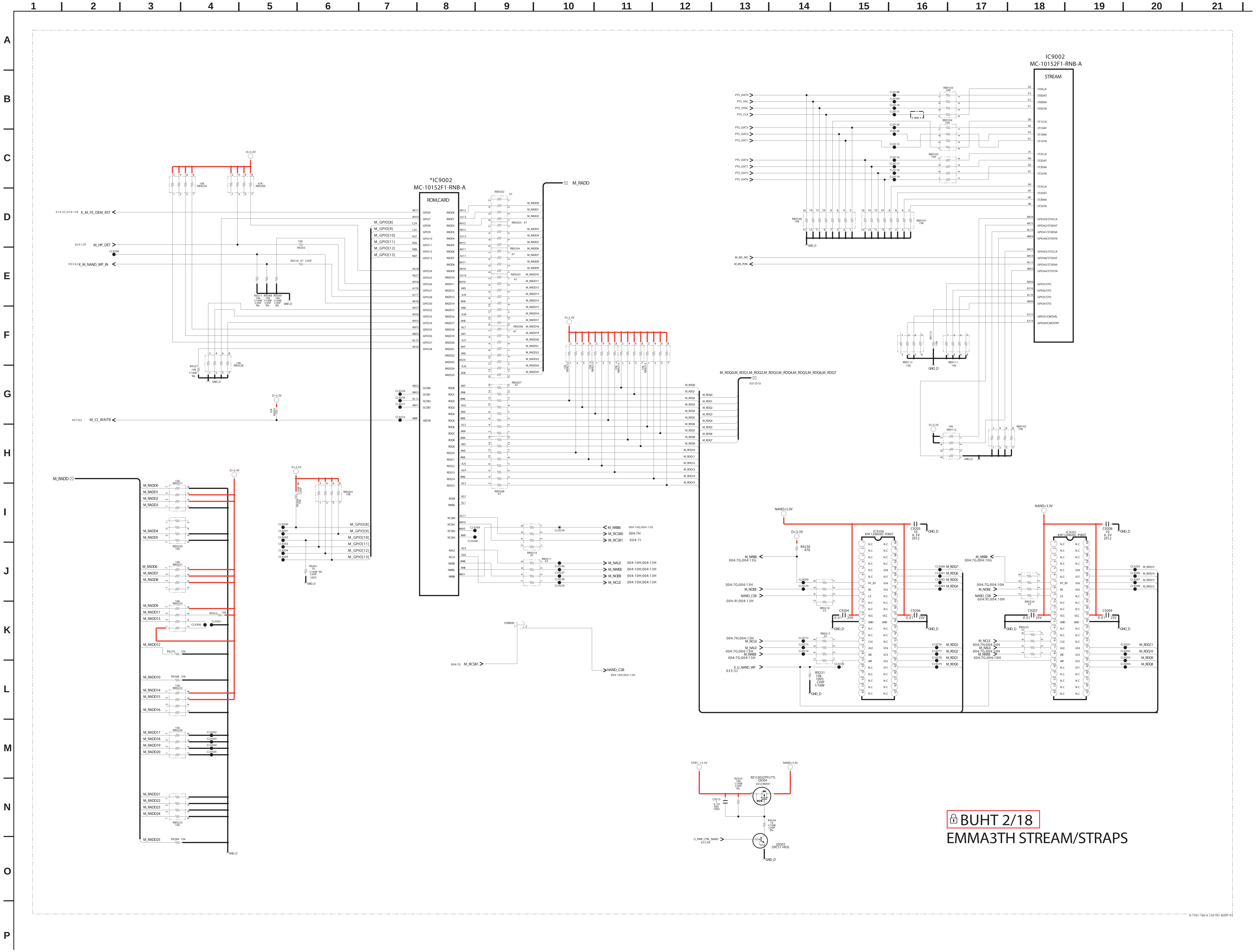
1-4. SCHEMATICS AND SUPPORTING INFORMATION
BUHT BOARD SCHEMATIC DIAGRAM (1 OF 18)



BUHT 1/18
EMMA3TH SYSTEM

A-1761-160-A <AZ1H> BUHS-P1

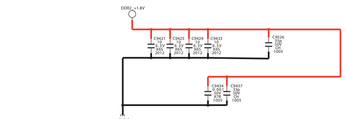
BUHT BOARD SCHEMATIC DIAGRAM (2 OF 18)

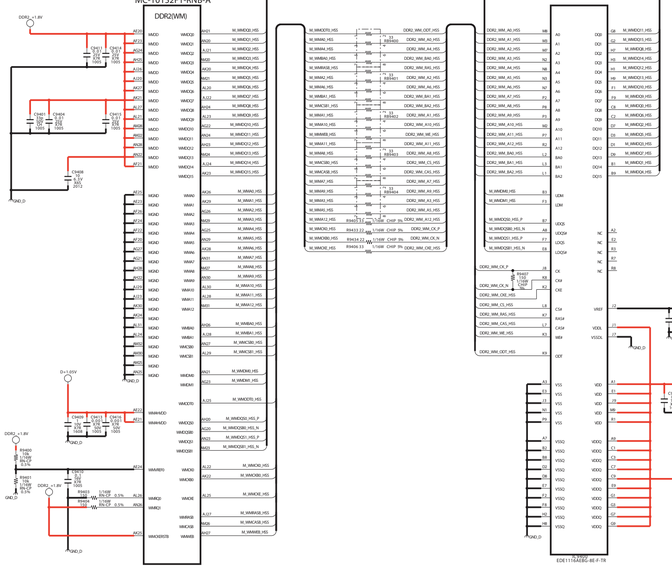


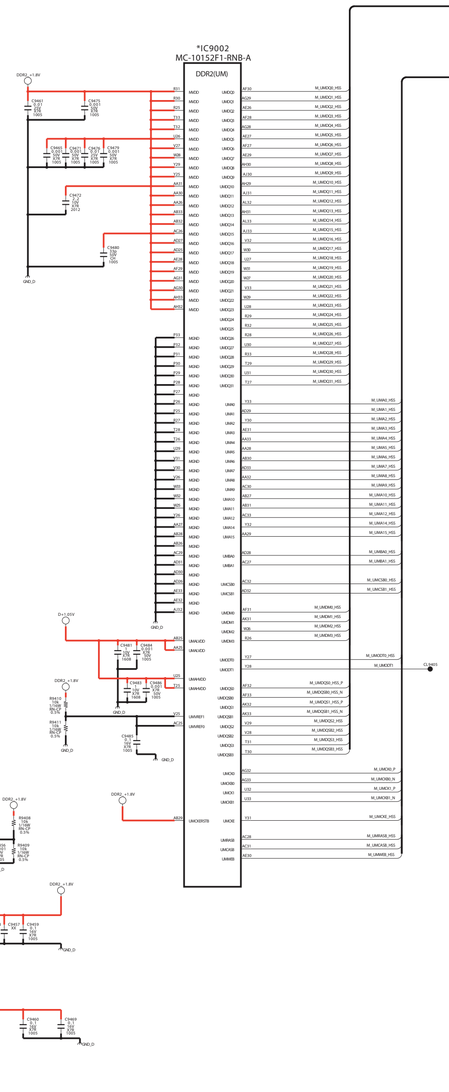
BUHT BOARD SCHEMATIC DIAGRAM (3 OF 18)

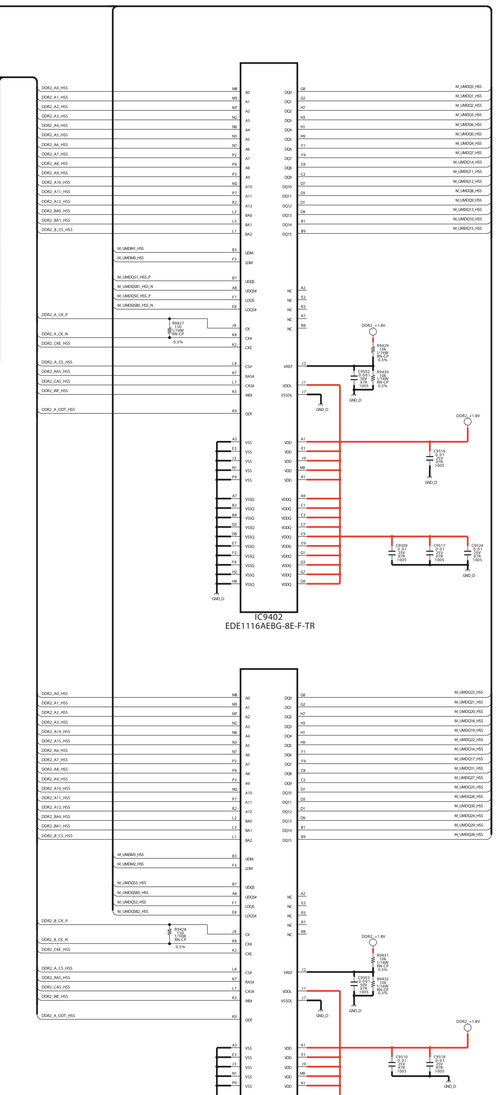
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

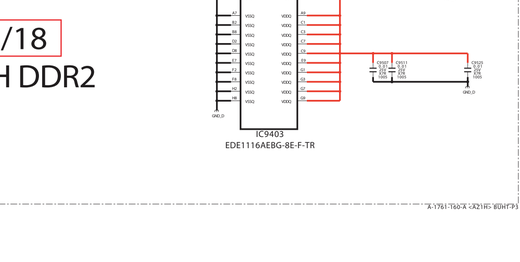
A B C D E F G H I J K L M N O P







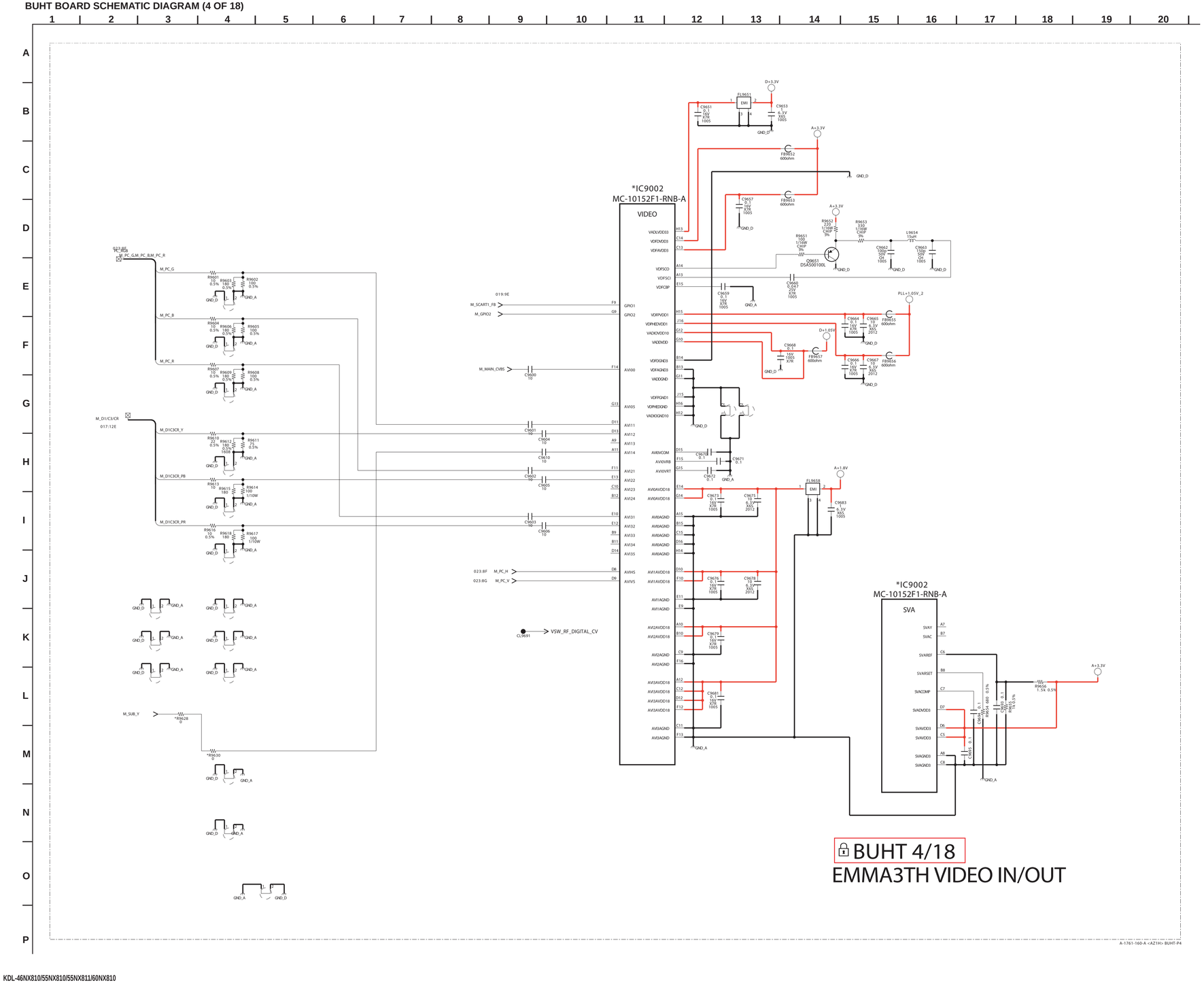




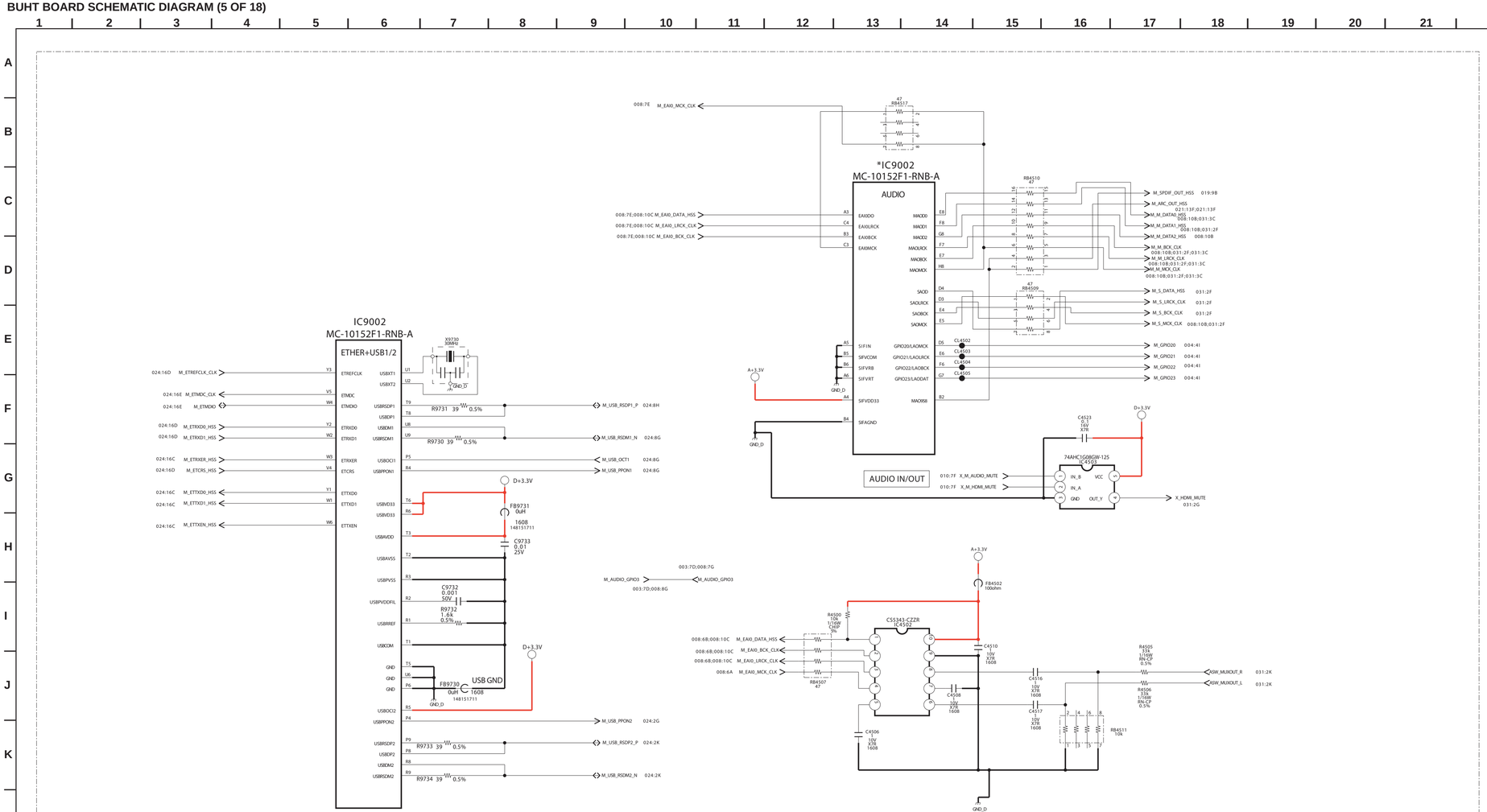
BUHT 3/18

EMMA3TH DDR2

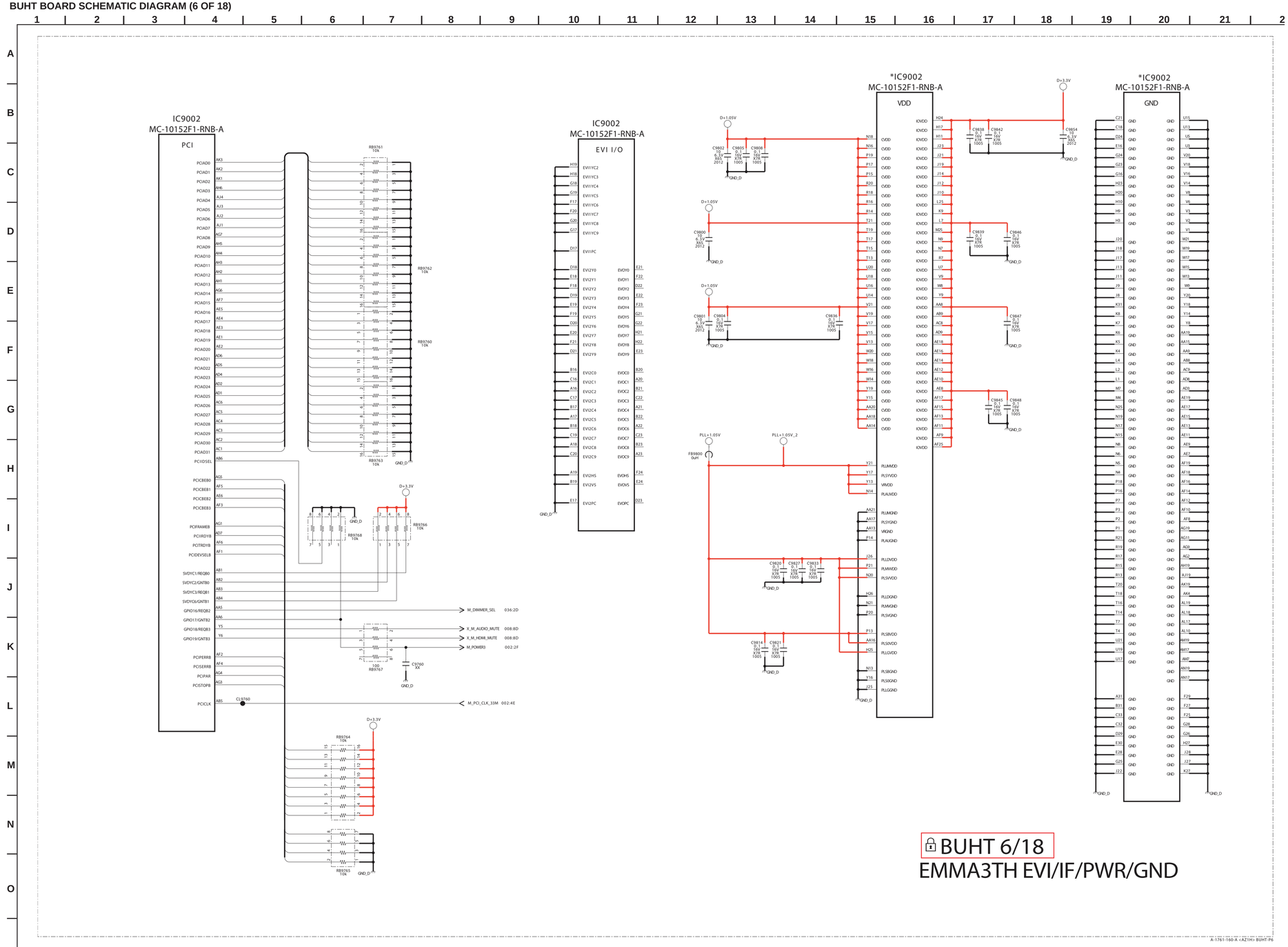
BUHT BOARD SCHEMATIC DIAGRAM (4 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (5 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (6 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (7 OF 18)

*IC9002
MC-10152F1-RNB-A

HDMI+LVDS(Video)

D+3.3V
RB9900 10k
R9908 330
R9909 330
R9910 330
R9911 330
R9912 330
R9913 330
R9914 330
R9915 330
R9900 1.8k 1/16W 0.5%
R9901 10 1/16W 0.5%
R9907 10 1/16W 0.5%
HDMI_TXC_N
HDMI_TXC_P
HDMI_TX0_N
HDMI_TX0_P
HDMI_TX1_N
HDMI_TX1_P
HDMI_TX2_N
HDMI_TX2_P
D+1.05V
C9900 0.01 25V X7R 1005
C9901 0.01 25V X7R 1005
C9902 0.1 16V X7R 1005
C9903 0.1 16V X7R 1005
C9904 0.01 25V X7R 1005
C9905 0.1 16V X7R 1005
C9906 2.2 6.3V X6S 1608
GND_D

J5	HDMIPWSEN	GPIO14/LVDSH5	B24
		GPIO15/LVDSV5	A24
J7	HDMIDSDA		
J6	HDMIDSDL		
M9	HDMIEXTN		
M8	HDMIEXTP		
J1	HDMIRICP		
J2	HDMIRICN		
K2	HDMIRIDN0	LTVEDP0	C29
K1	HDMIRIDP0	LTVEDN0	C30
M2	HDMIRIDN1	LTVEDP1	C28
M1	HDMIRIDP1	LTVEDN1	D28
N2	HDMIRIDN2	LTVEDP2	C27
N1	HDMIRIDP2	LTVEDN2	D27
		LTVEDP3	D26
		LTVEDN3	C26
		LTVEDP4	C25
		LTVEDN4	D25
L6	HDMIDVDD	LTVECP	E26
L5	HDMIDVDD	LTVECN	E27
M6	HDMIDVDD	LTVODP0	A30
M5	HDMIDVDD	LTVODN0	B30
K3	HDMIIOVDD	LTVODP1	A29
L3	HDMIIOVDD	LTVODN1	B29
M3	HDMIIOVDD	LTVODP2	A28
		LTVODN2	B28
H2	GND	LTVODP3	A26
H1	GND	LTVODN3	B26
J3	GND	LTVODP4	A25
N3	GND	LTVODN4	B25
L9	HDMIAVDD	LTVOCP	A27
		LTVOCN	B27
L8	HDMIAVSS	LTVDD	B32
		LTVDD	C31
		LTVDD	D30
		LTVDD	E29
		LTVDD	E25
		LTVDD	F28
		LTVDD	F26
		LTVDD	G27
		LTVDD	H28
		LTVDD	J29
		LTCVDD	J24
		LTCVDD	K25

M_HDMI_ARC 021:13G
M_LVDS_VS 033:11G
M_LTVEC_CLK_N,M_LTVEC_CLK_P,M_LTVED0_N,M_LTVED1_N,M_LTVED2_N,M_LTVED3_N,M_LTVED4_N,M_LTVOD0_P,M_LTVED1_P,M_LTVED2_P,M_LTVED3_P,M_LTVED4_P 027:4F
M_LTVOC_CLK_N,M_LTVOC_CLK_P,M_LTVOD0_N,M_LTVOD1_N,M_LTVOD2_N,M_LTVOD3_N,M_LTVOD4_N,M_LTVOD0_P,M_LTVOD1_P,M_LTVOD2_P,M_LTVOD3_P,M_LTVOD4_P 027:4F
M_LTVED0_P
M_LTVED0_N
M_LTVED1_P
M_LTVED1_N
M_LTVED2_P
M_LTVED2_N
M_LTVED3_P
M_LTVED3_N
M_LTVED4_P
M_LTVED4_N
M_LTVEC_CLK_P
M_LTVEC_CLK_N
M_LTVOD0_P
M_LTVOD0_N
M_LTVOD1_P
M_LTVOD1_N
M_LTVOD2_P
M_LTVOD2_N
M_LTVOD3_P
M_LTVOD3_N
M_LTVOD4_P
M_LTVOD4_N
M_LTVOC_CLK_P
M_LTVOC_CLK_N

D+3.3V
FL9900 EMI
C9918 10 6.3V X6S 2012
C9912 0.1 16V 1005
C9913 0.1 16V X7R1005
X7R
D+1.05V
C9916 0.1 16V 1005
GND_D

*IC9002
MC-10152F1-RNB-A

LTVDD(Graphics

LTGEDP0	J30	LTGODP0	J32
LTGEDN0	J31	LTGODN0	J33
LTGEDP1	H31	LTGODP1	H32
LTGEDN1	H30	LTGODN1	H33
LTGEDP2	G29	LTGODP2	G32
LTGEDN2	H29	LTGODN2	G33
LTGEDP3	F30	LTGODP3	E32
LTGEDN3	F31	LTGODN3	E33
LTGEDP4	D31	LTGODP4	D32
LTGEDN4	E31	LTGODN4	D33
LTGECP	G30	LTGOCP	F32
LTGECN	G31	LTGOCN	F33
		LTGHSI	L27
		LTGVSI	K26

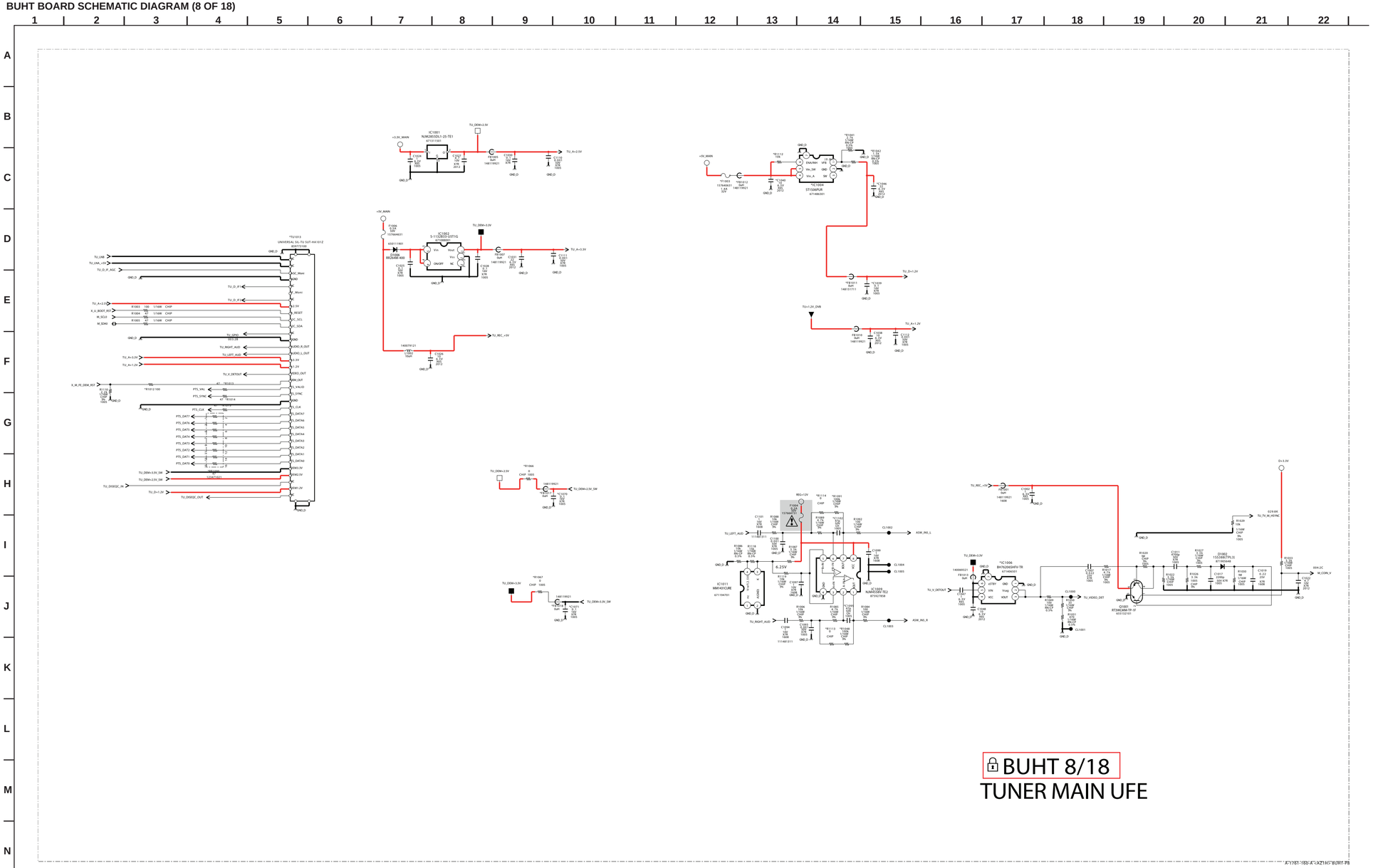
GND_D

LVDS

BUHT 7/18
EMMA3TH HDMI/LVDS

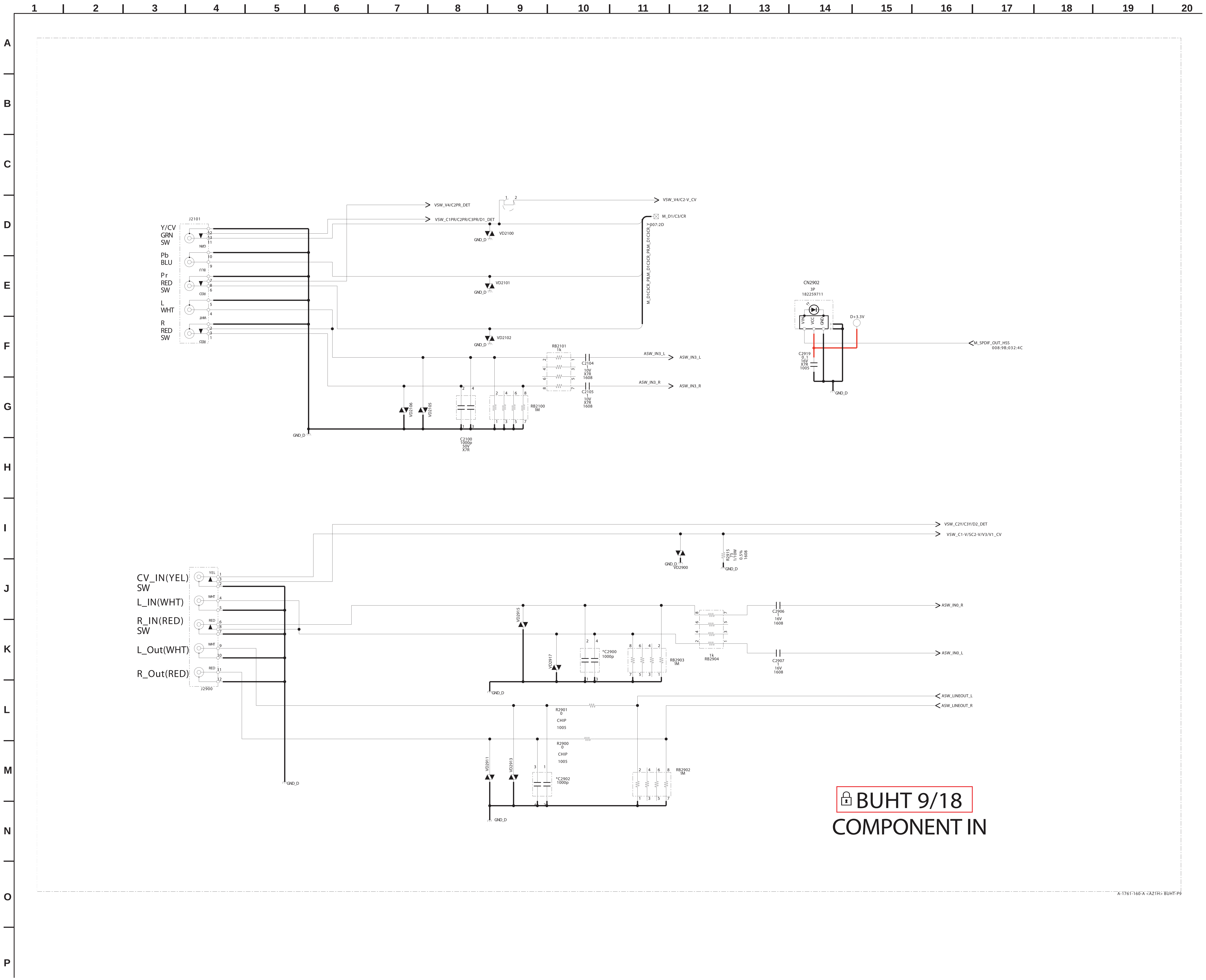
A-1761-160-A <AZ1H> BUHT-P7

BUHT BOARD SCHEMATIC DIAGRAM (8 OF 18)

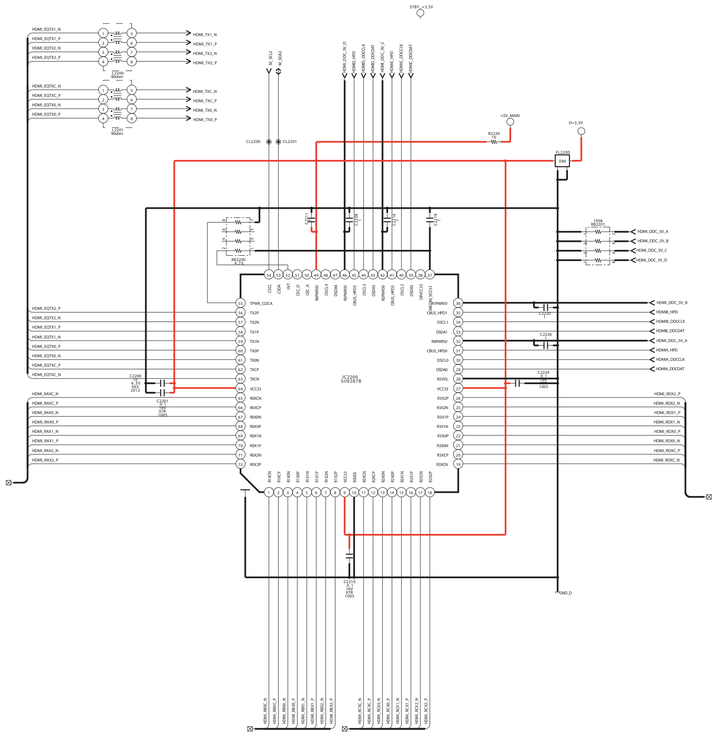


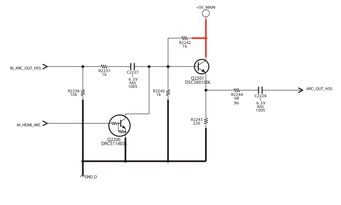
BUHT 8/18
TUNER MAIN UFE

BUHT BOARD SCHEMATIC DIAGRAM (9 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (10 OF 18)

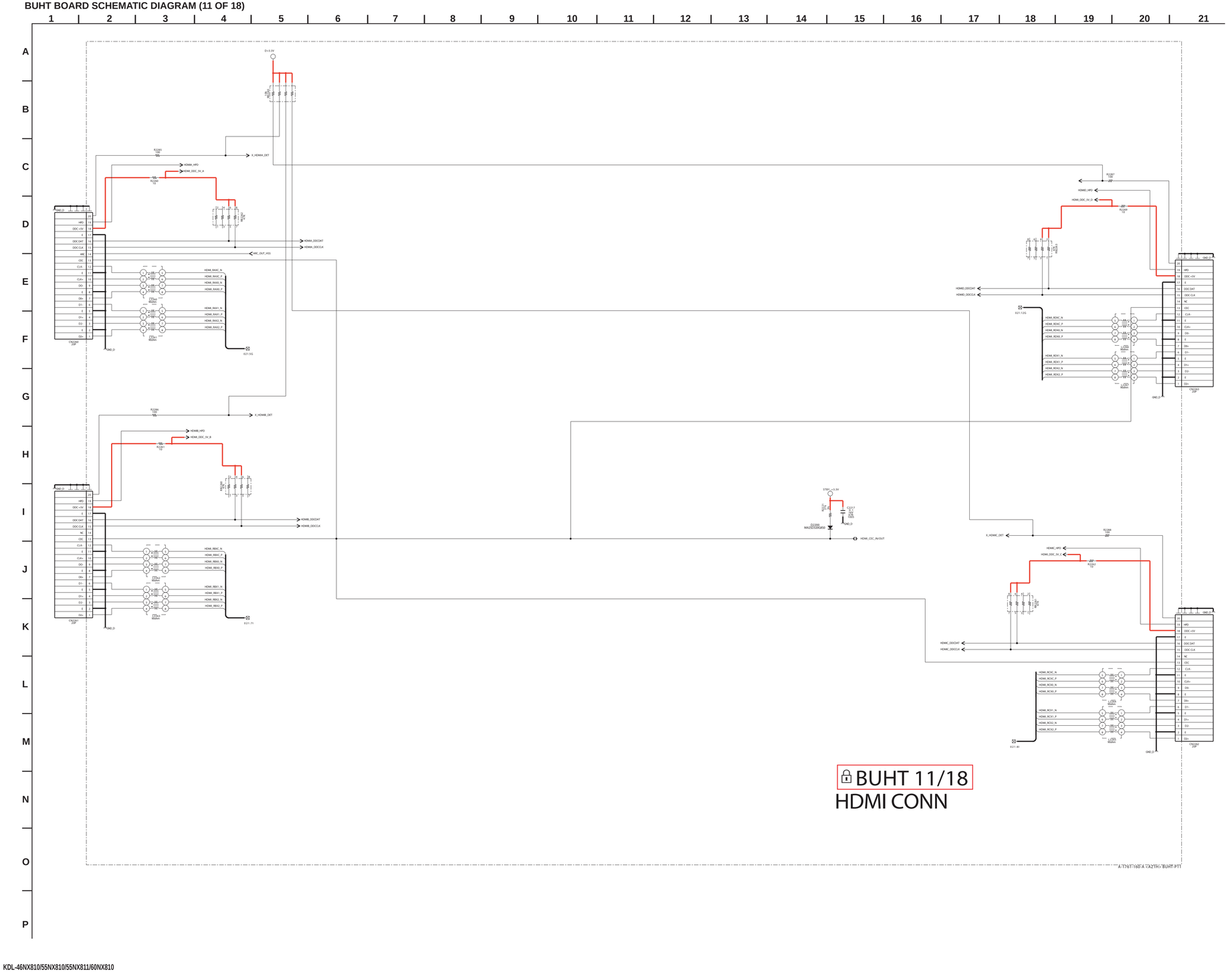




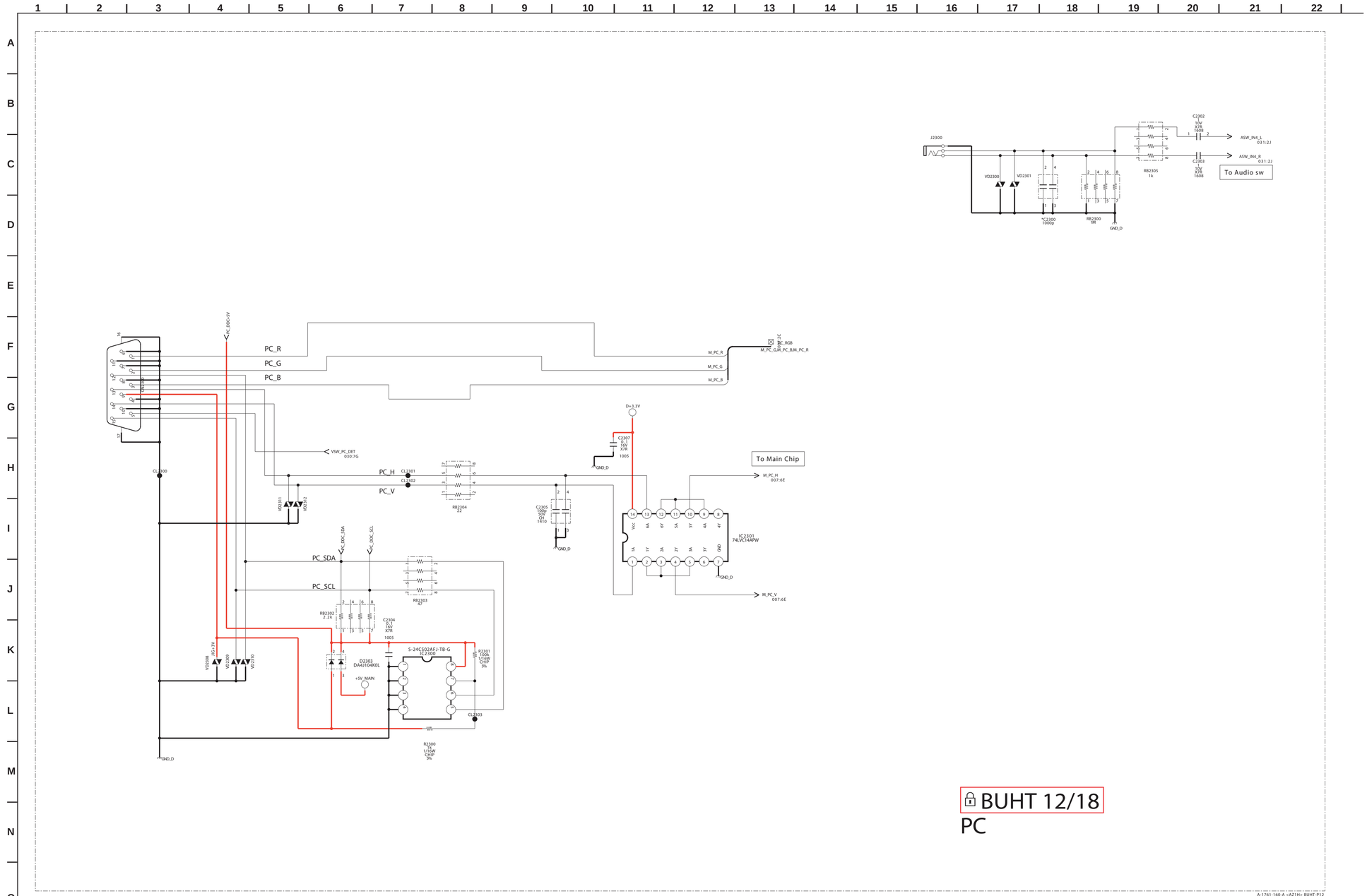
BUHT 10/18

HDMI EQ SW S

BUHT BOARD SCHEMATIC DIAGRAM (11 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (12 OF 18)

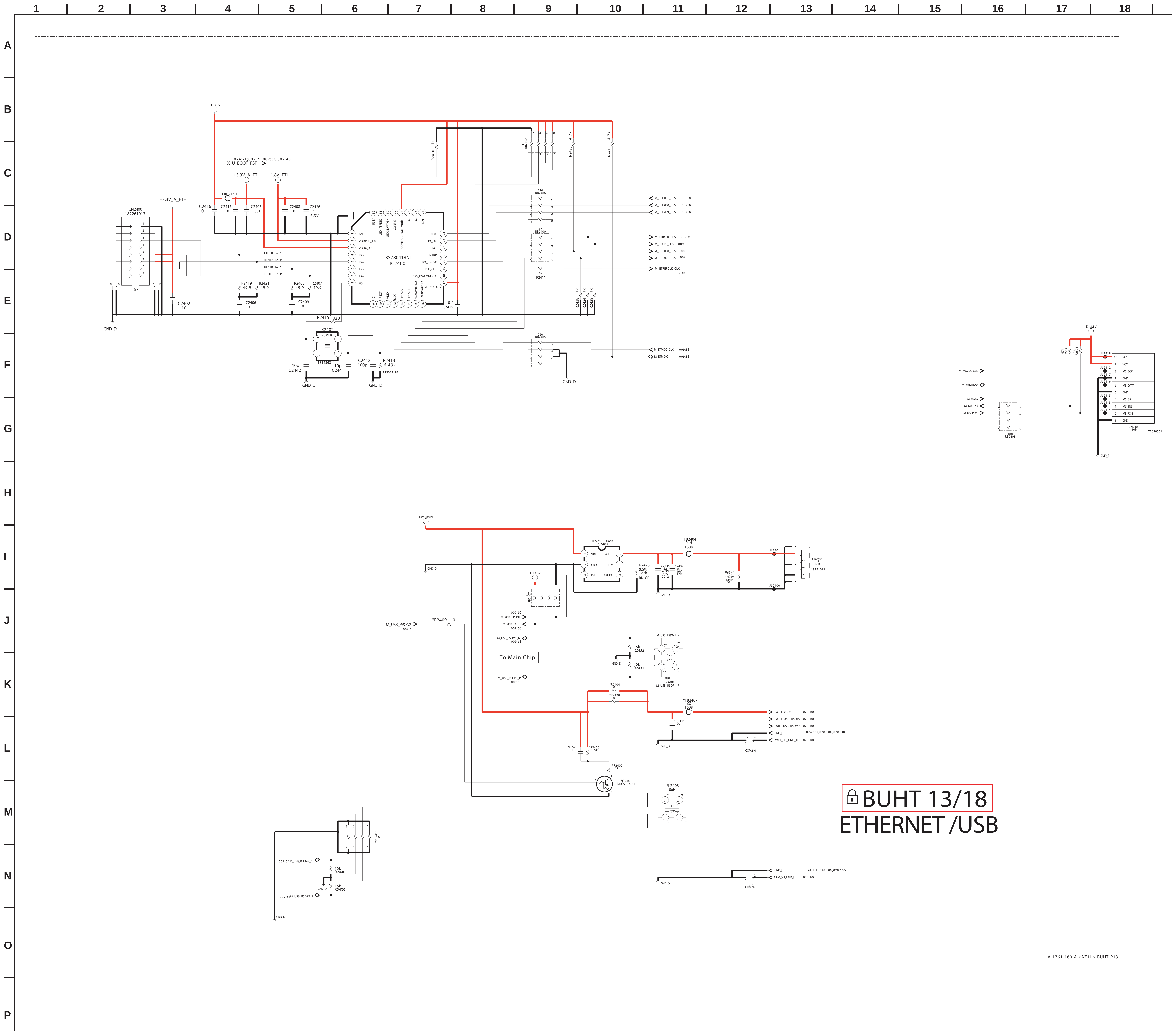


BUHT 12/18

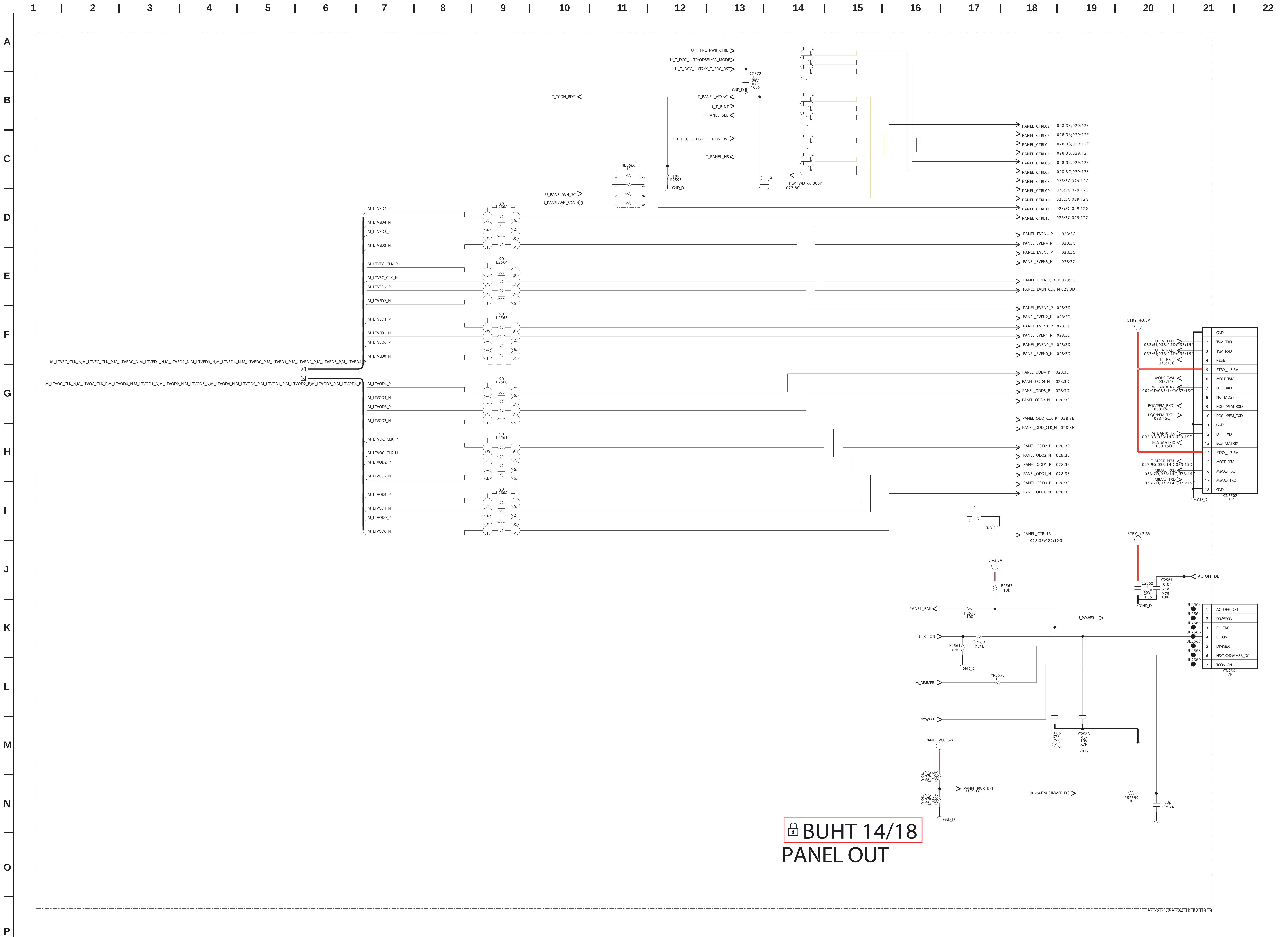
PC

A-1761-160-A <AZ1H> BUHT-P12

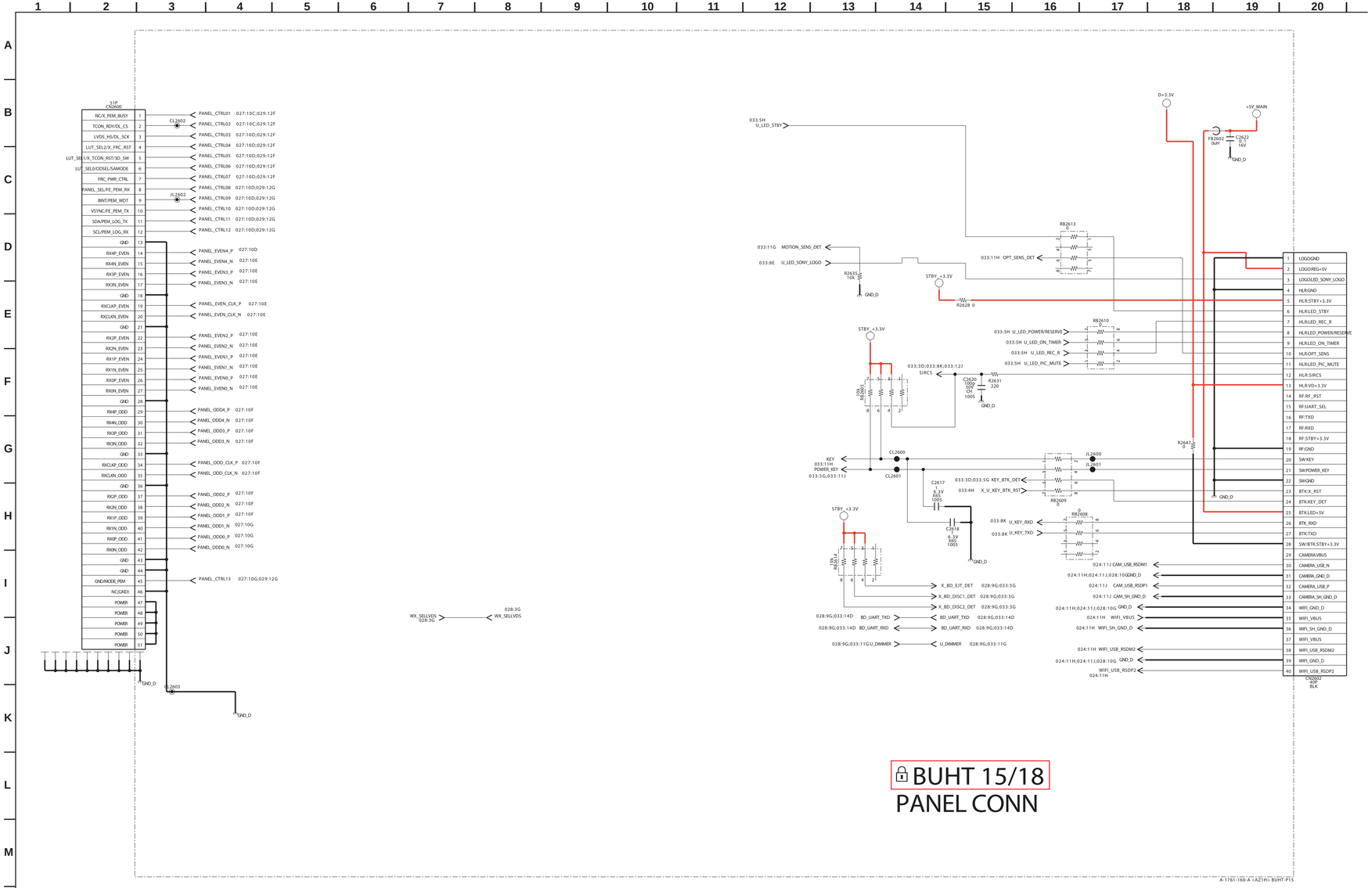
BUHT BOARD SCHEMATIC DIAGRAM (13 OF 18)



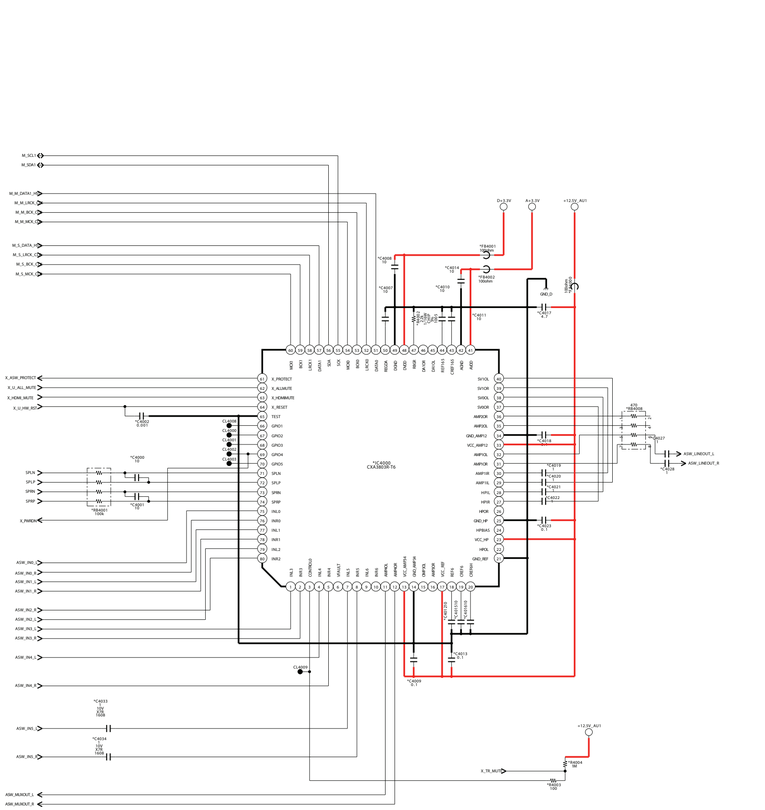
BUHT BOARD SCHEMATIC DIAGRAM (14 OF 18)

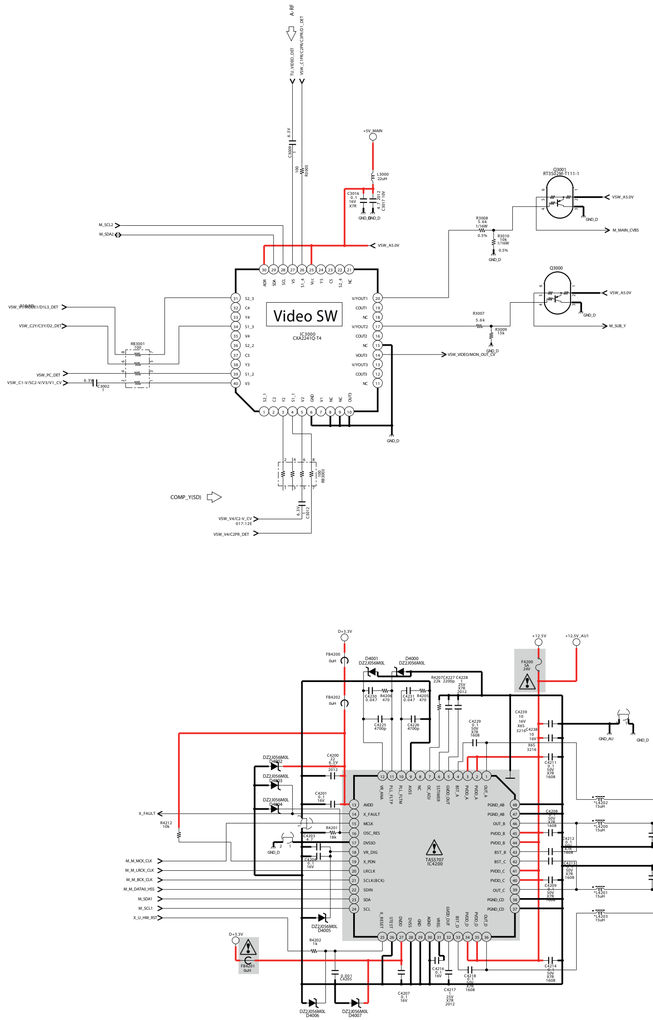


BUHT BOARD SCHEMATIC DIAGRAM (15 OF 18)



BUHT BOARD SCHEMATIC DIAGRAM (16 OF 18)





BUHT 16/18
VIDEO SW/AUDIO SW

A-1761-160-A <AZ1H> BUHT-P16

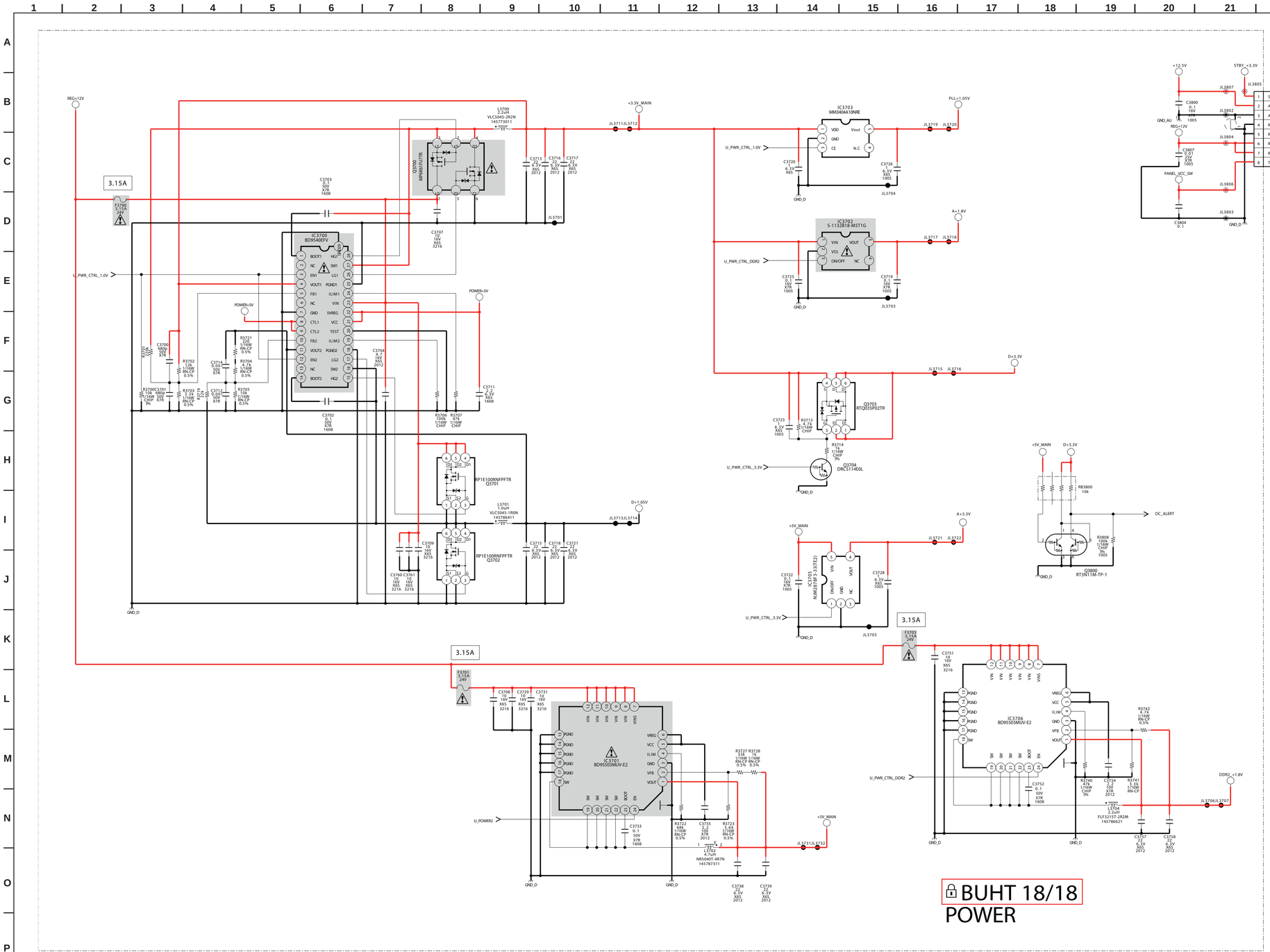
BUHT BOARD SCHEMATIC DIAGRAM (17 OF 18)

BUHT 17/18

MIMAS/AUDIO CN

A-1761-160-A <AZ1H> BUHT-P17

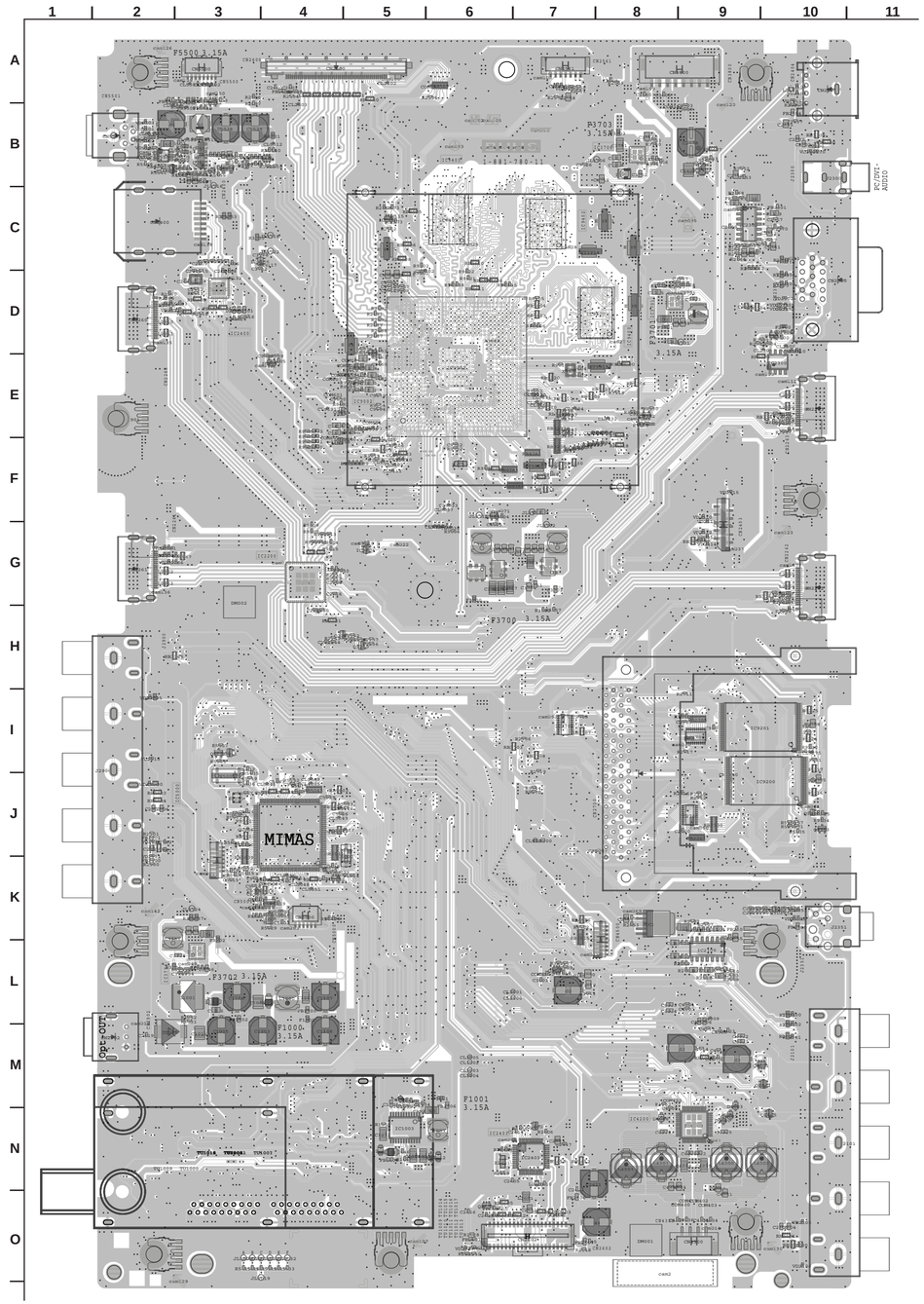
BUHT BOARD SCHEMATIC DIAGRAM (18 OF 18)



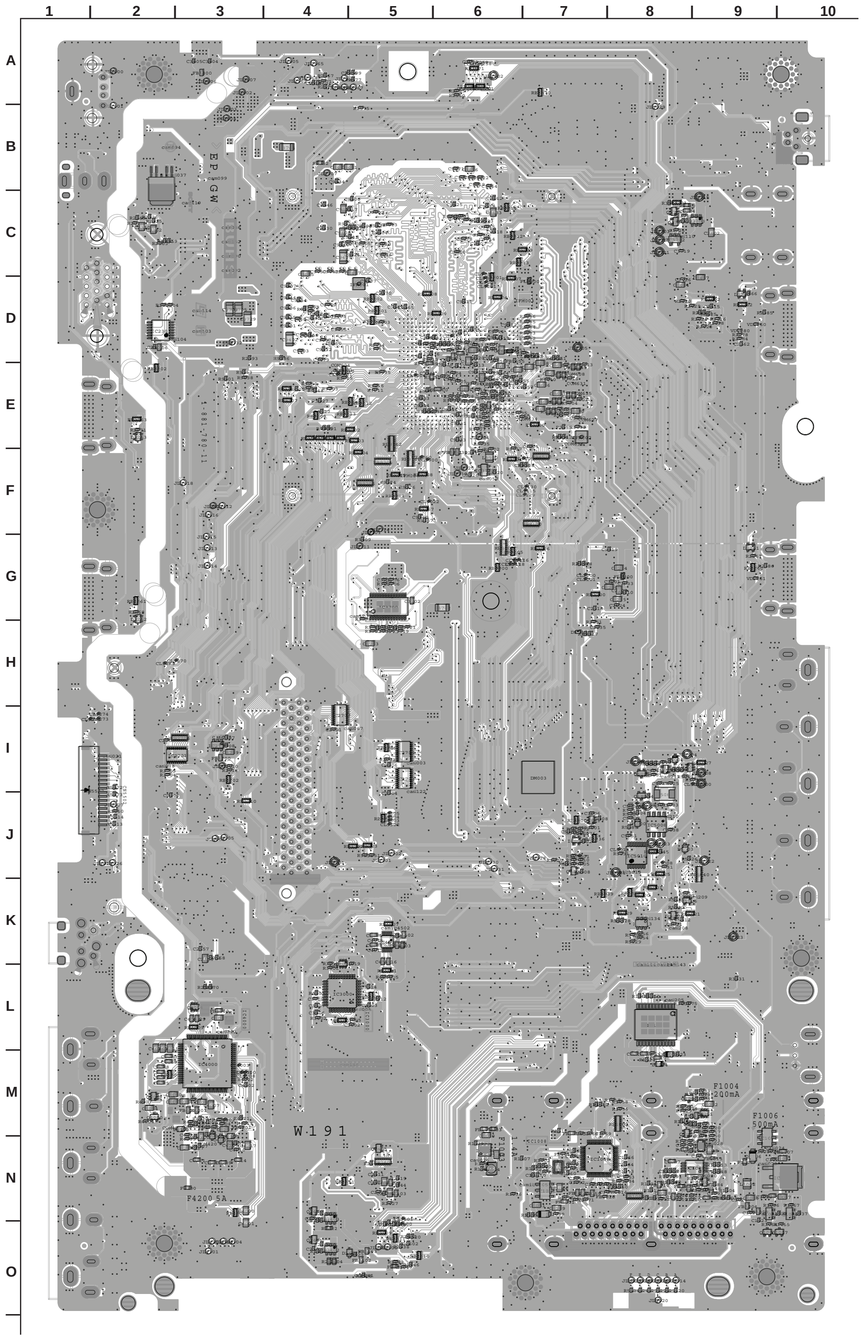
BUHT

[EMMA3TH SYSTEM/STREAM/STRAPS/DDR2/VIDEO IN/OUT/AUDIO IN/OUT/ETHERNET/USB/EVI-IF/PCI/POWER/GND/HDMI/LVDS/TUNER MAIN UFE/DPL/COMPONENT IN/HDMI EQ SW S/HDMI CONNECTOR/PC/EHTERNET/USB/PANEL/VIDEO SW/AUDIO IN/OUT/MIMAS/POWER]

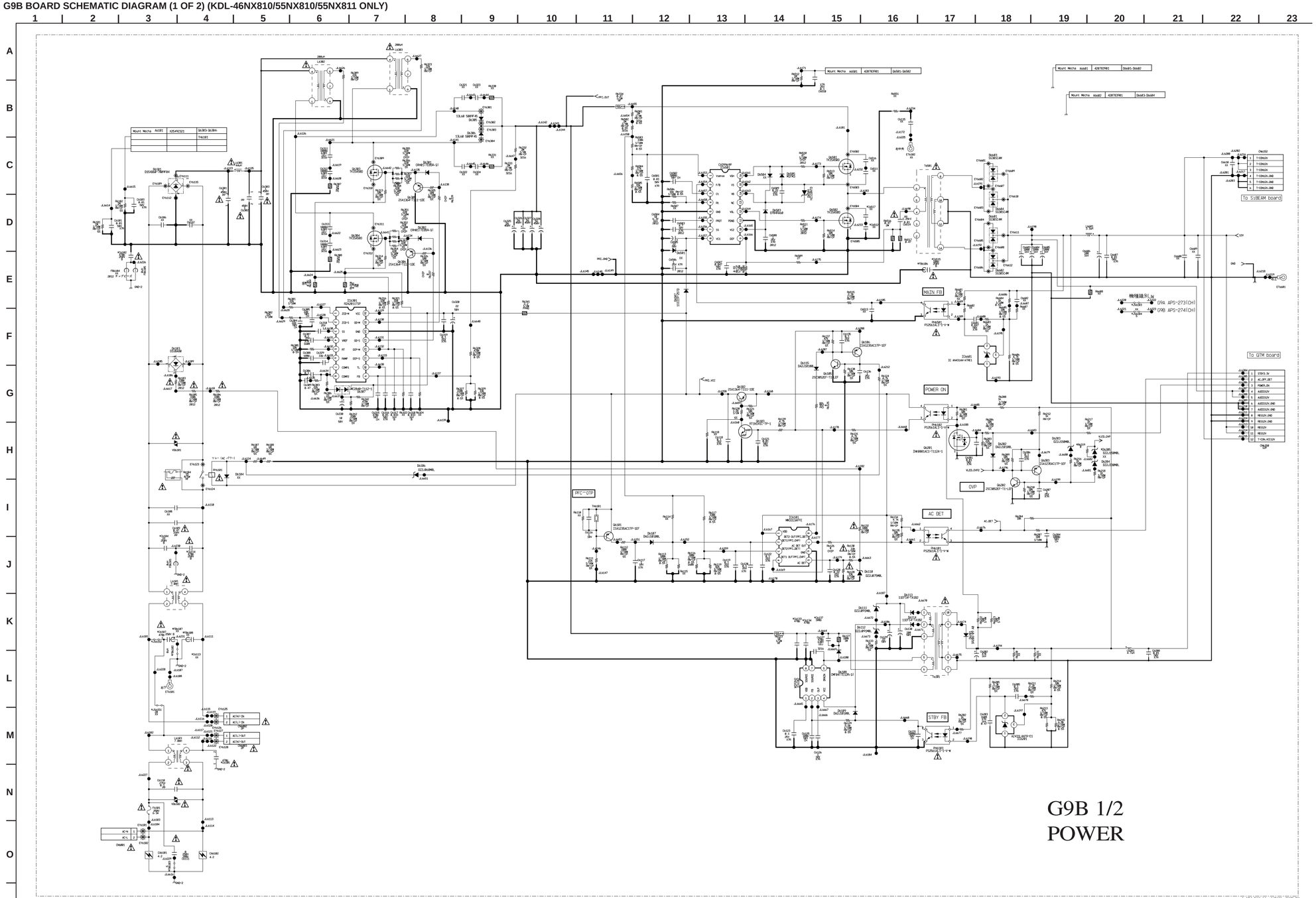
COMPONENT SIDE



CONDUCTOR SIDE

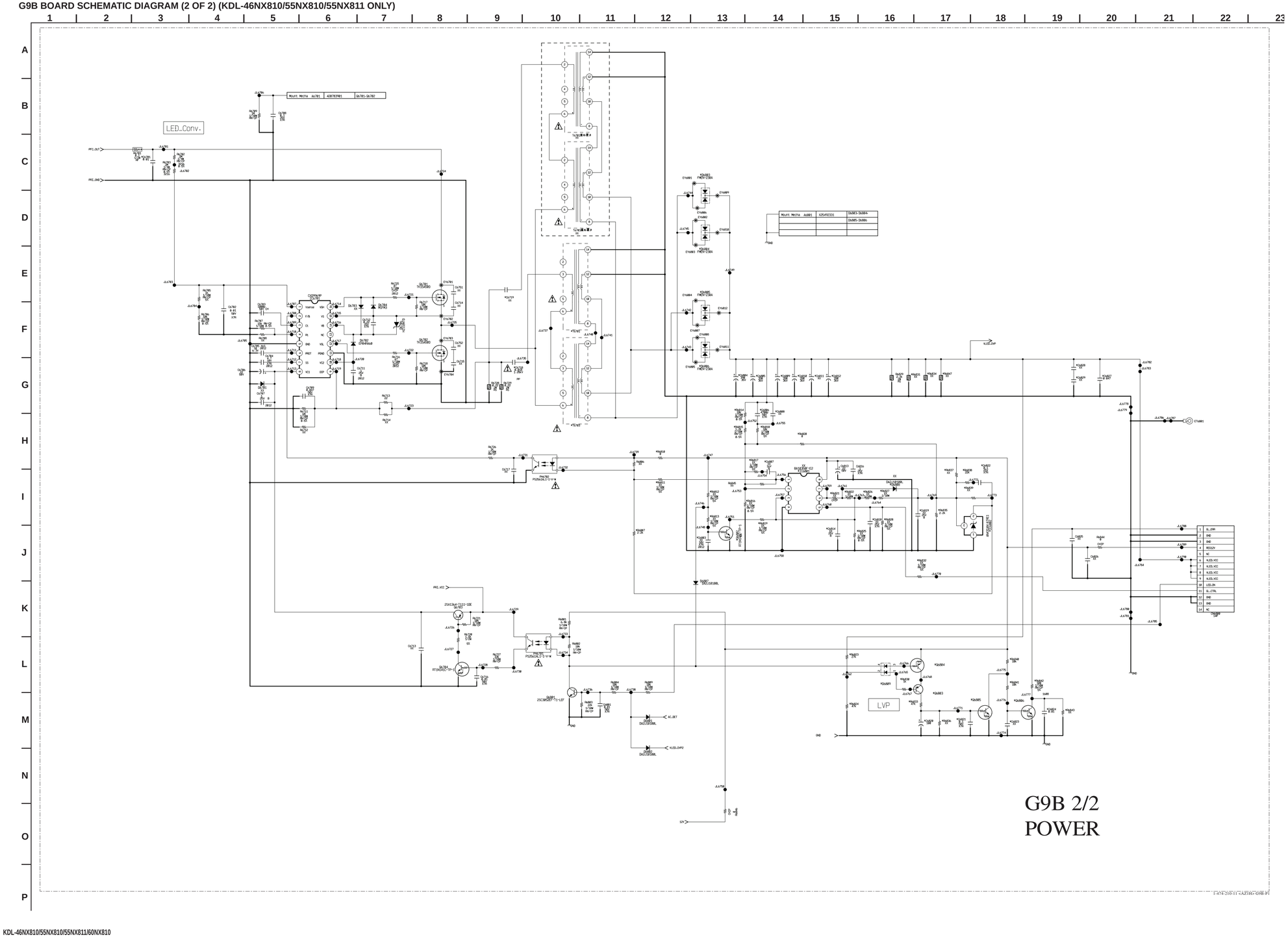


G9B BOARD SCHEMATIC DIAGRAM (1 OF 2) (KDL-46NX810/55NX810/55NX811 ONLY)



1-474-210-11 <AZ1H> G9B-P1

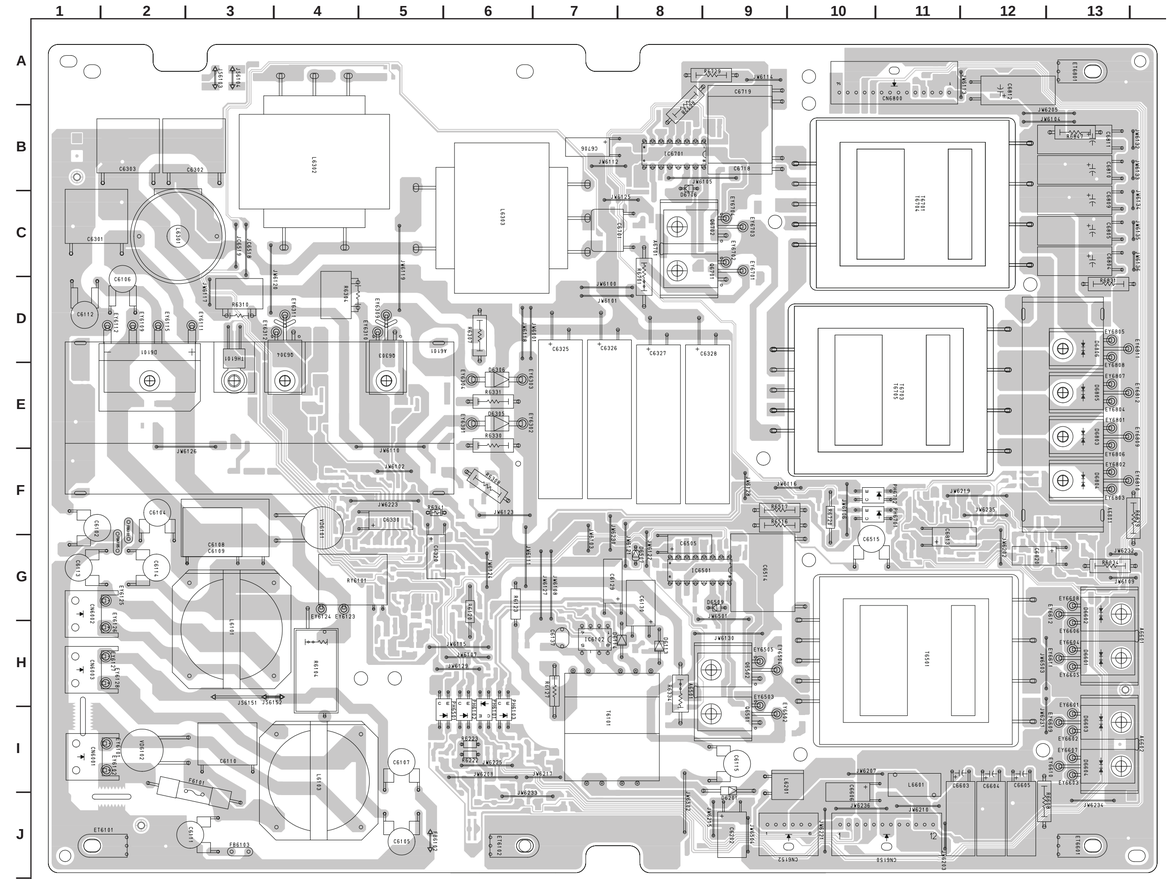
G9B BOARD SCHEMATIC DIAGRAM (2 OF 2) (KDL-46NX810/55NX810/55NX811 ONLY)



G9B

[POWER]

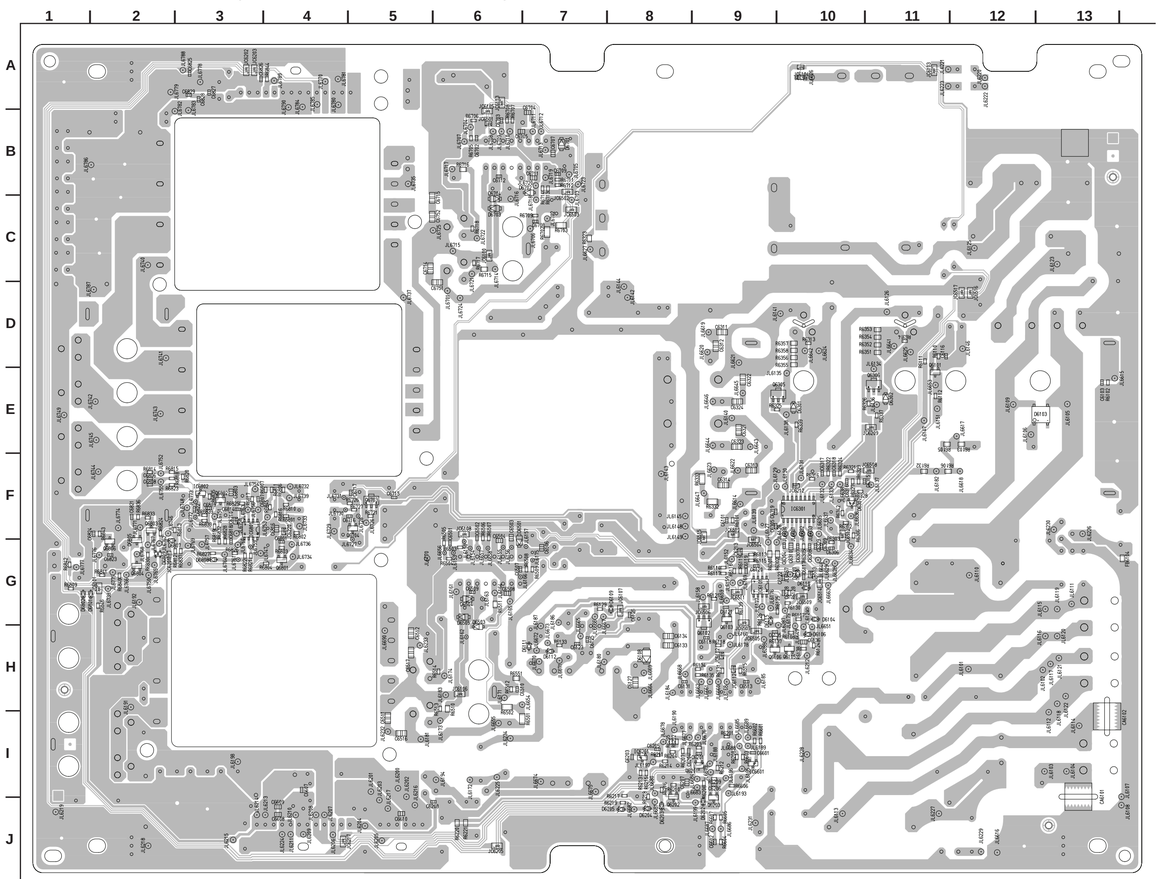
COMPONENT SIDE (KDL-46NX810/55NX810/55NX811 ONLY)



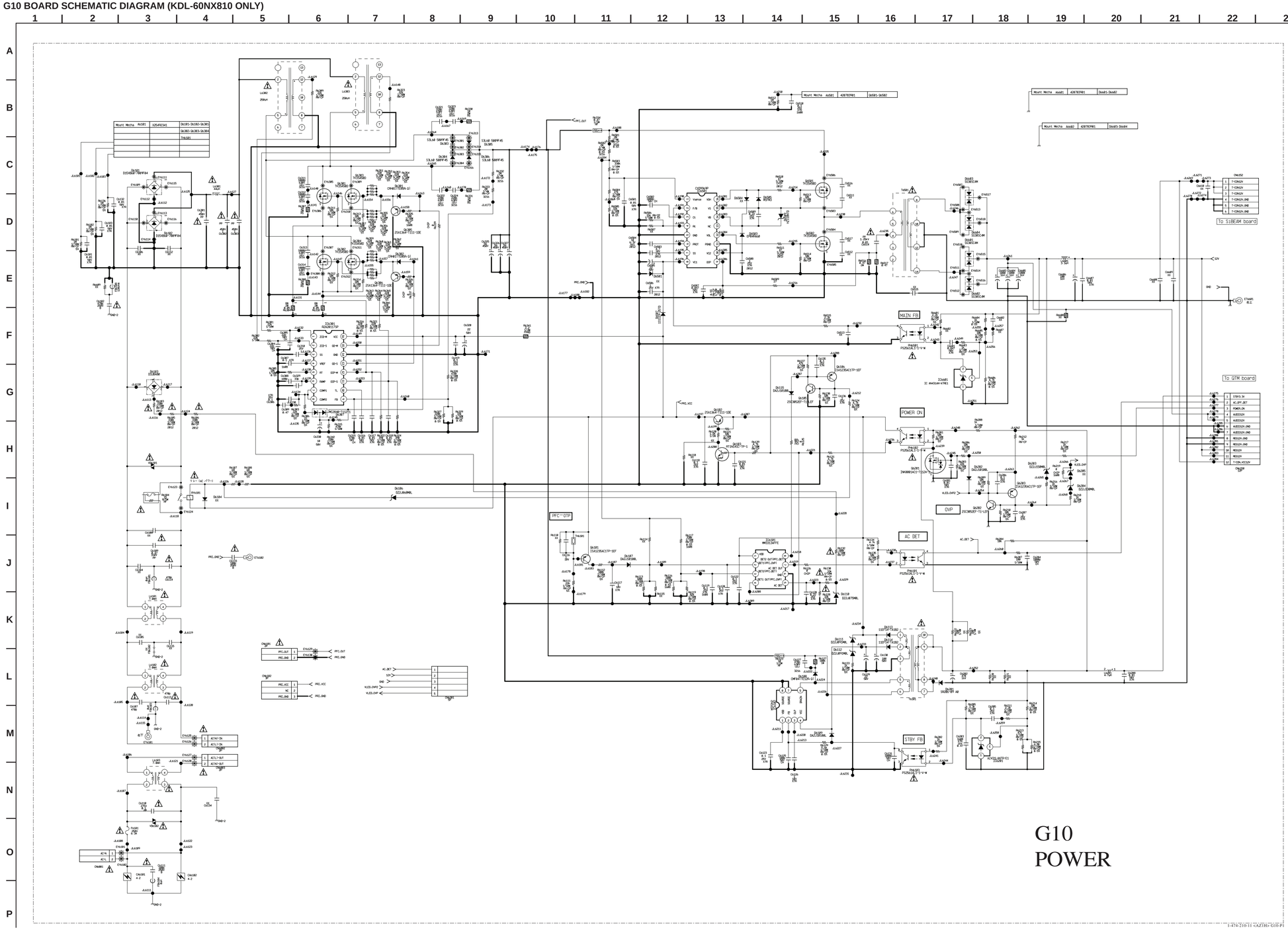
G9B

[POWER]

CONDUCTOR SIDE (KDL-46NX810/55NX810/55NX811 ONLY)



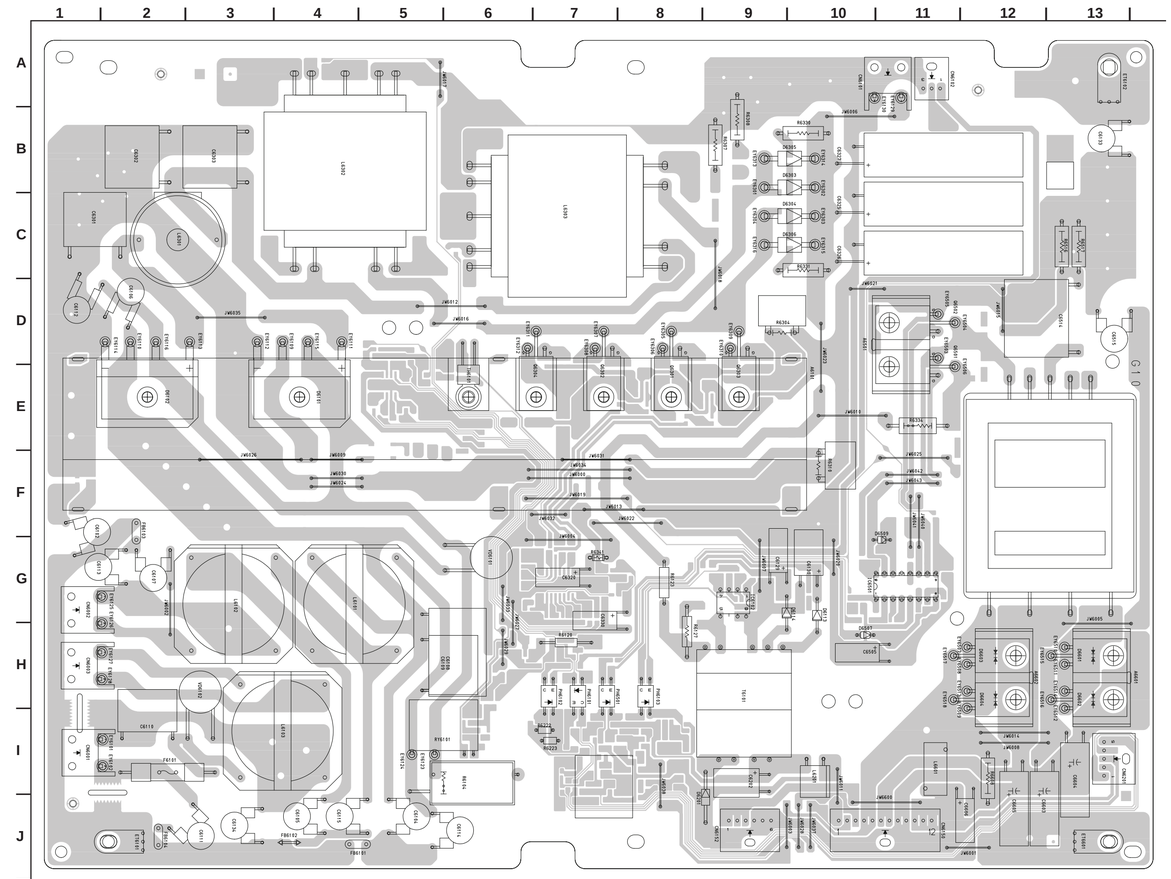
G10 BOARD SCHEMATIC DIAGRAM (KDL-60NX810 ONLY)



G10

[POWER]

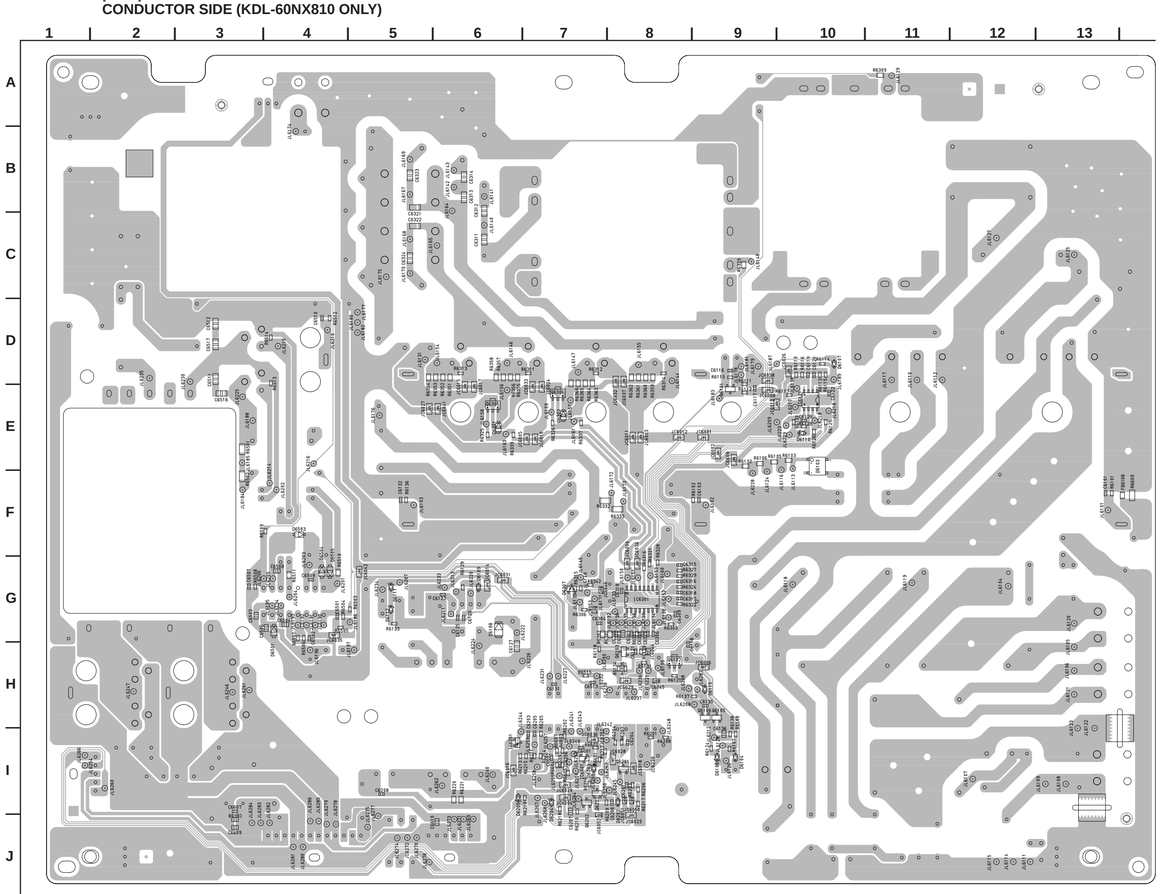
COMPONENT SIDE (KDL-60NX810 ONLY)



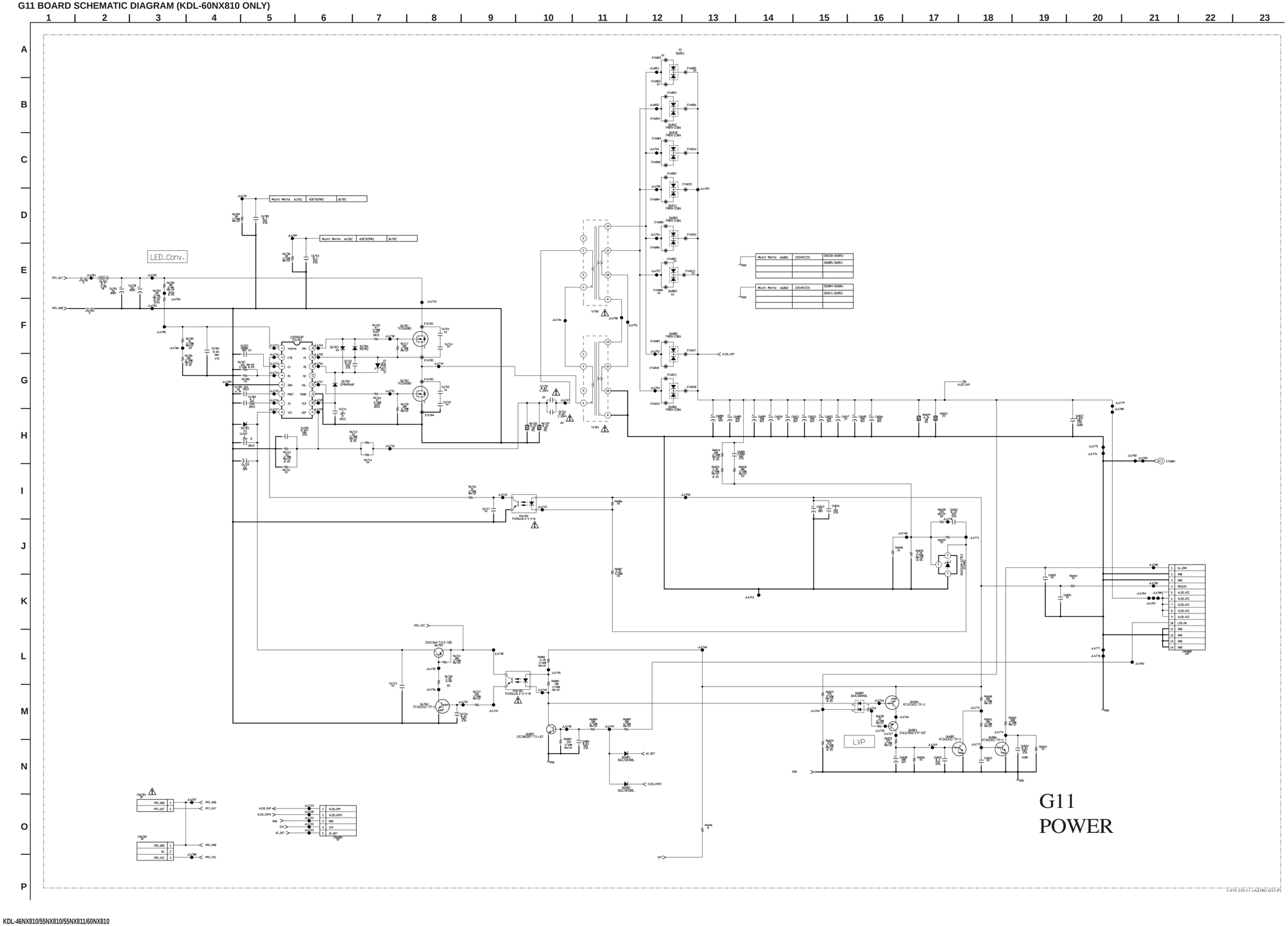
G10

[POWER]

CONDUCTOR SIDE (KDL-60NX810 ONLY)



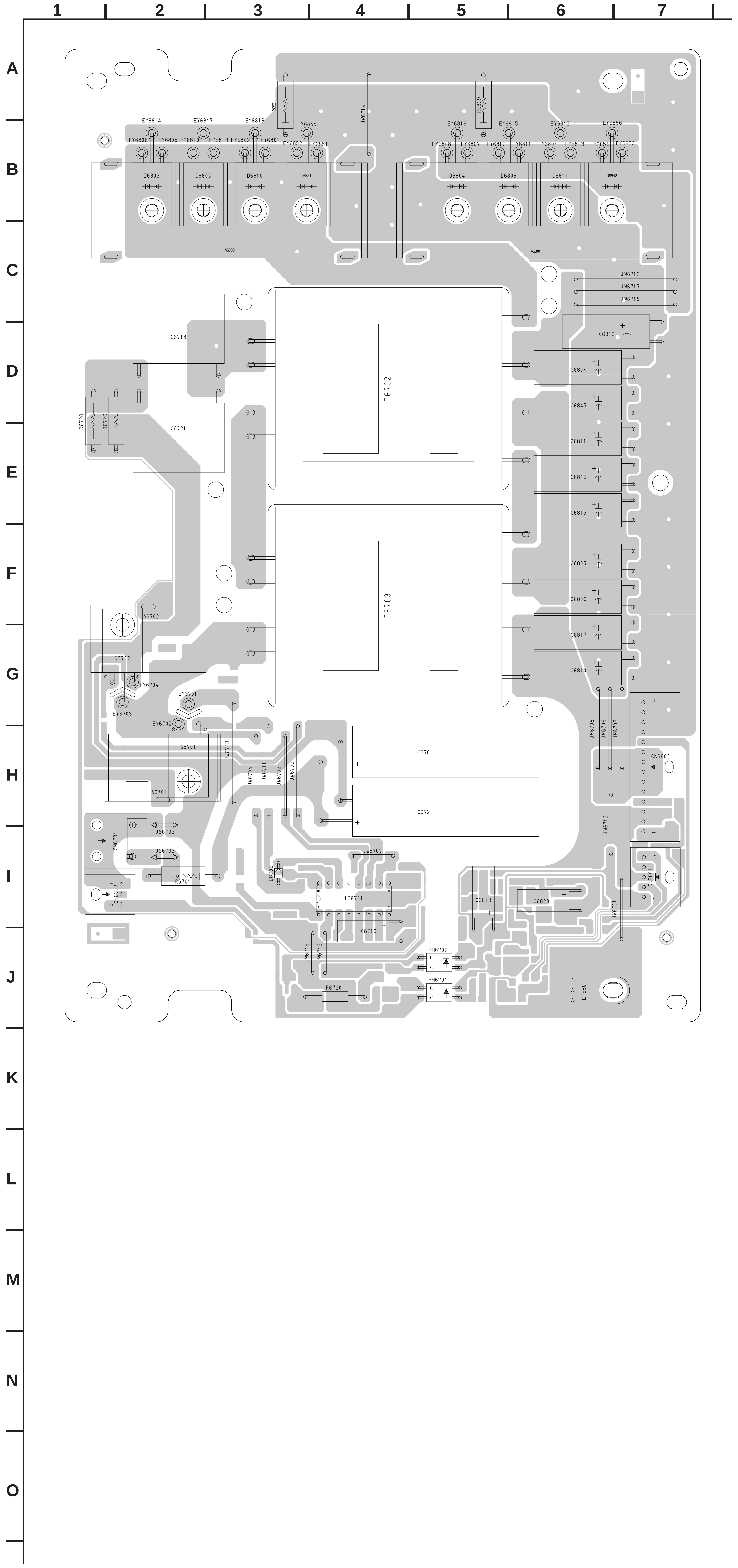
G11 BOARD SCHEMATIC DIAGRAM (KDL-60NX810 ONLY)



G11

[POWER]

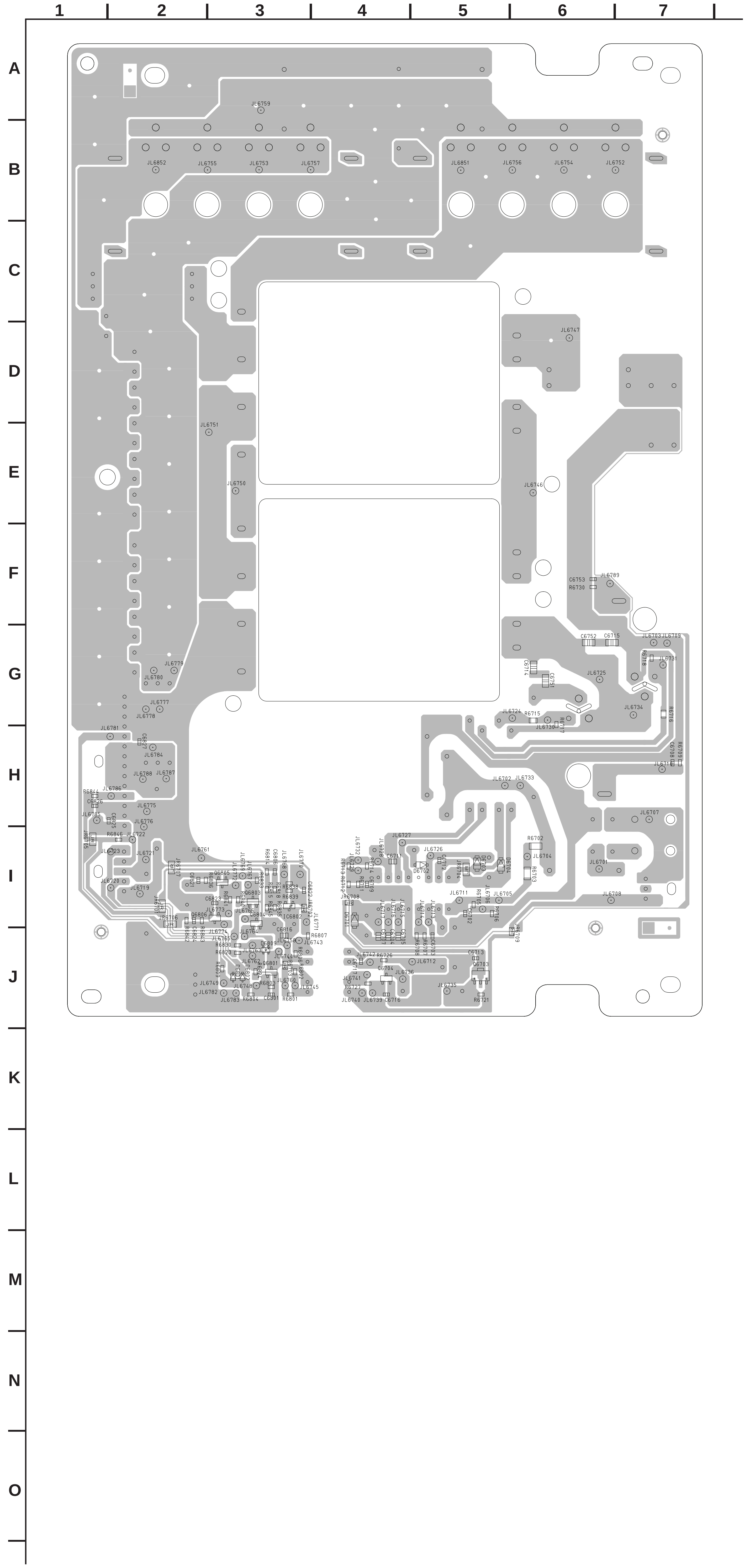
COMPONENT SIDE (KDL-60NX810 ONLY)



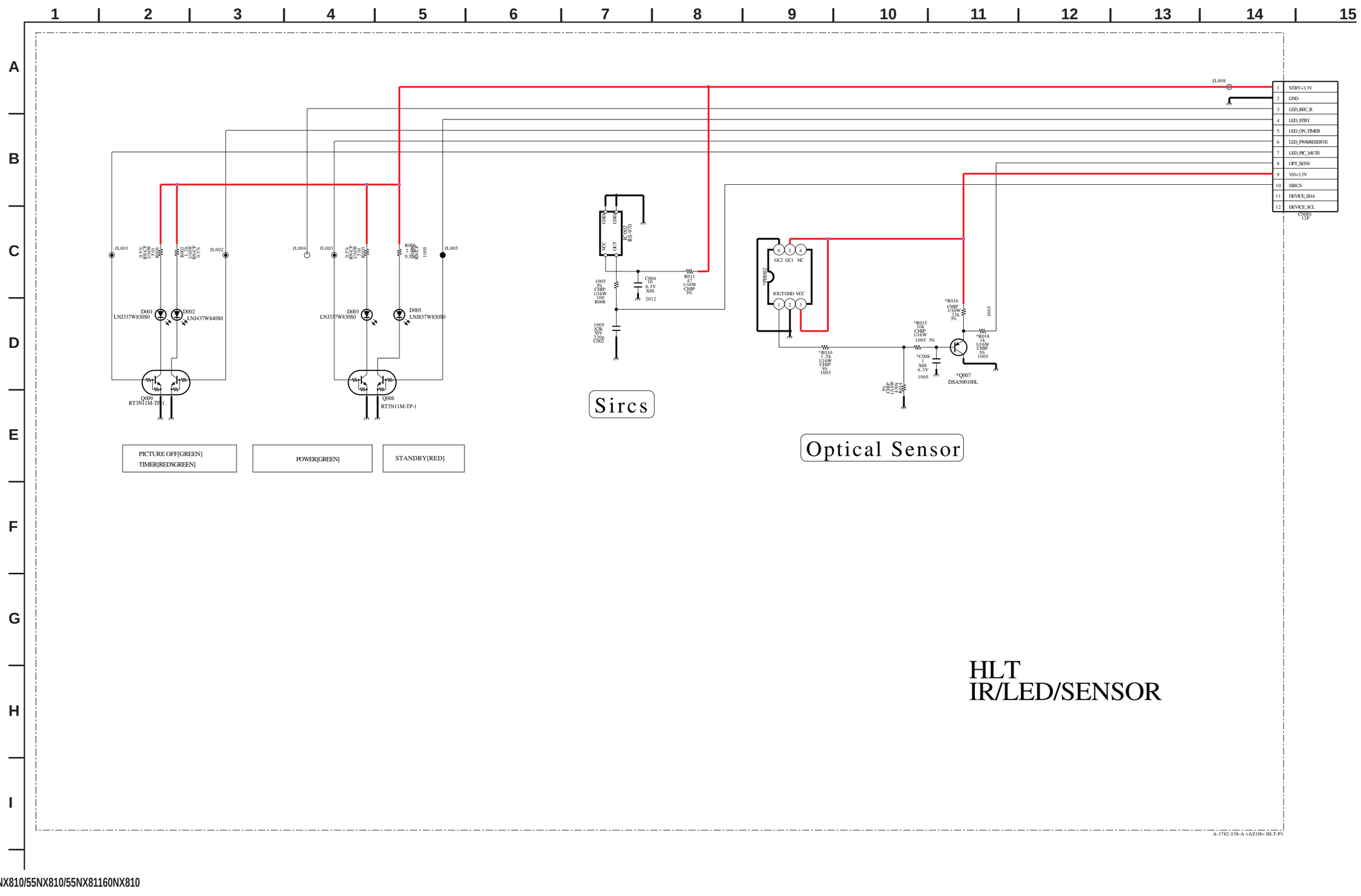
G11

[POWER]

CONDUCTOR SIDE (KDL-60NX810 ONLY)



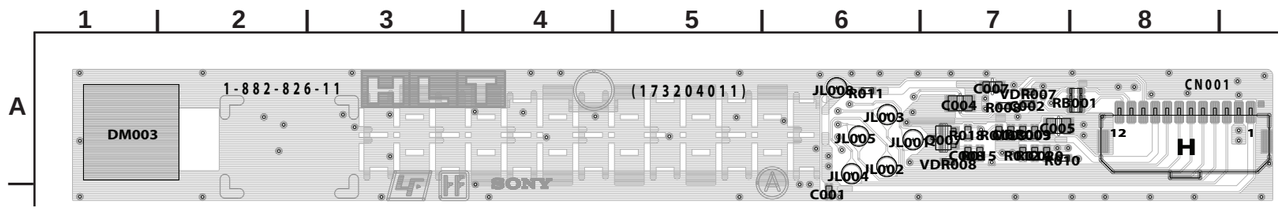
HLT BOARD SCHEMATIC DIAGRAM



HLT

[IR/LED/SENSOR]

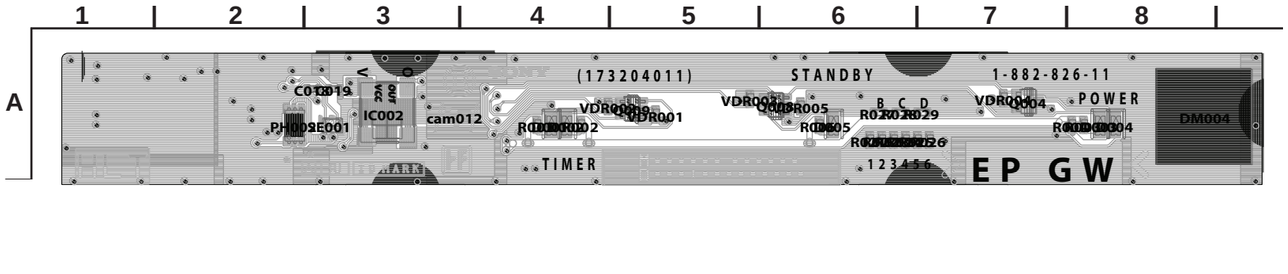
COMPONENT SIDE



HLT

[IR/LED/SENSOR]

CONDUCTOR SIDE



SECTION 2: ELECTRICAL PARTS LIST

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

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

* 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.

BUHT

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.

BUHT

🔒 A-1788-127-A BUHT BOARD, COMPLETE

NOTE: For BUHT Board replacement, please refer to section 2-2. Setting the Destination after Replacing the BUHT Board or LCD Panel Assembly in the Service Manual for these models.

NOTE: Final software is not installed on this BUHT Board. Install the update after replacing this board using the instructions provided with the software.

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C1002	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C1007	1-112-778-11	CERAMIC CHIP	0.022µF	10%	25V
C1011	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C1017	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C1019	1-114-326-11	CERAMIC CHIP	0.22µF	10%	25V
C1022	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C1024	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C1025	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1026	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C1027	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C1028	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1030	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1031	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C1038	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C1039	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1040	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C1046	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C1047	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C1048	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C1070	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1071	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C1093	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C1094	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C1095	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C1097	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C1099	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C1100	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C1101	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C1102	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C1110	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C1111	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C1112	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C2100	1-114-365-11	CAP, CERAMIC	1000PF X7R (1410)		
C2104	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C2105	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C2200	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C2201	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2208	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2210	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2211	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2216	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2217	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2218	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2220	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2224	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2226	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2227	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2228	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2300	1-114-365-11	CAP, CERAMIC	1000PF X7R (1410)		
C2302	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C2303	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C2304	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2307	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2406	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2407	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2408	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2409	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2412	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2415	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2417	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2426	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2435	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C2437	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2441	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C2442	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C2445	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2446	1-114-472-91	CERAMIC CHIP	0.001µF	10%	2KV
C2447	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C2560	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2561	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C2572	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C2573	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2617	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2618	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C2620	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2622	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2900	1-114-365-11	CAP, CERAMIC	1000PF X7R (1410)		
C2902	1-114-365-11	CAP, CERAMIC	1000PF X7R (1410)		
C2906	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C2907	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C2919	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3002	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3009	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3012	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3016	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3017	1-114-331-11	CERAMIC CHIP	4.7µF	10%	10V
C3700	1-116-400-11	CERAMIC CHIP	680pF	10%	50V
C3701	1-116-400-11	CERAMIC CHIP	680pF	10%	50V
C3702	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C3703	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C3704	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C3707	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3708	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3709	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3711	1-114-869-11	CERAMIC CHIP	2.2µF	10%	6.3V
C3712	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C3713	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3714	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C3715	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3716	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3717	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3718	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3719	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3720	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3721	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3722	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3723	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3725	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3726	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3728	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C3729	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3731	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3733	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C3735	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C3738	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3739	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3751	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3752	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C3754	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C3757	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3758	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C3760	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3761	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C3800	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3804	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3807	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C3808	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C3901	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C3902	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C4000	1-116-079-11	CERAMIC CHIP	10µF	10%	10V
C4001	1-116-079-11	CERAMIC CHIP	10µF	10%	10V
C4002	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4007	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C4008	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C4010	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C4011	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C4012	1-116-079-11	CERAMIC CHIP	10µF	10%	10V
C4013	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4014	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C4015	1-116-079-11	CERAMIC CHIP	10µF	10%	10V
C4016	1-116-079-11	CERAMIC CHIP	10µF	10%	10V
C4017	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C4018	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4019	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4020	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4021	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4022	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4023	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4027	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4028	1-112-781-11	CERAMIC CHIP	1µF	10%	10V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C4033	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4034	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4200	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C4201	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4203	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C4204	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4205	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4207	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4208	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4209	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4211	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4212	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4213	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4214	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4216	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4217	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C4218	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4220	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4221	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4223	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4224	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4225	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4226	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4227	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C4228	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C4229	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4230	1-112-779-11	CERAMIC CHIP	0.047µF	10%	25V
C4231	1-112-779-11	CERAMIC CHIP	0.047µF	10%	25V
C4234	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4235	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4236	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4237	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4238	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C4239	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C4300	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C4301	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4303	1-114-870-11	CERAMIC CHIP	4.7µF	10%	16V
C4304	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4305	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4307	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4309	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4313	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4314	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4316	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4317	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C4318	1-114-868-11	CERAMIC CHIP	0.1µF	10%	50V
C4323	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4324	1-114-329-11	CERAMIC CHIP	0.47µF	10%	50V
C4325	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4326	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4327	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C4330	1-112-779-11	CERAMIC CHIP	0.047µF	10%	25V
C4331	1-112-779-11	CERAMIC CHIP	0.047µF	10%	25V
C4336	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4337	1-112-776-11	CERAMIC CHIP	0.0047µF	10%	50V
C4338	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C4506	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4508	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4510	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4516	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4517	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C4523	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5004	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C5009	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C5011	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C5013	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5014	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5015	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5018	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5020	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5023	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5024	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5029	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5030	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5032	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5036	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V
C5037	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C5038	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5041	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C5042	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C5047	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C5048	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C5051	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5056	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5061	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C5504	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C5527	1-135-366-11	ELECT CHIP	100µF	20%	16V
C5528	1-135-366-11	ELECT CHIP	100µF	20%	16V
C5529	1-135-366-11	ELECT CHIP	100µF	20%	16V
C5530	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5532	1-114-813-11	CERAMIC CHIP	1µF	10%	16V
C9002	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V
C9004	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V
C9010	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9204	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9205	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9206	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9207	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9208	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9209	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9315	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C9400	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9401	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9403	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9404	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9406	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9407	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9408	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9409	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C9410	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9411	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9412	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9413	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9414	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9415	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9416	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9418	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9421	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9422	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9425	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9426	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9429	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9430	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9433	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9434	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9437	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9440	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9442	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9444	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9446	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9448	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9450	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9454	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9455	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9456	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9457	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9458	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9459	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9460	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9461	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9462	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9463	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9464	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9465	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9468	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9469	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9471	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9472	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C9474	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9475	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9476	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9478	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9479	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9480	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9481	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C9483	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C9484	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9485	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9486	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9502	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9503	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9504	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9505	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9506	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9507	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9508	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9509	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9510	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9511	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9512	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9513	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9514	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9515	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9516	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9517	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9518	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9519	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9520	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9521	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9522	1-164-862-11	CERAMIC CHIP	33pF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9523	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9524	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9525	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9526	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C9600	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9601	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9602	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9603	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9604	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9605	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9606	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9610	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9651	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9653	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C9657	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9659	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9660	1-112-779-11	CERAMIC CHIP	0.047µF	10%	25V
C9662	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C9663	1-164-878-11	CERAMIC CHIP	150pF	5%	50V
C9664	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9665	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9666	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9667	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9668	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9670	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9671	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9672	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9673	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9675	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9676	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9678	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9679	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9681	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9683	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C9693	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9694	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9695	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9732	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C9733	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9800	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9801	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9802	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9804	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9805	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9808	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9814	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9820	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9821	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9827	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9833	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9836	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9838	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9839	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9842	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9845	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9846	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9847	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9848	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9854	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9900	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9901	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9902	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9903	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9904	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C9905	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9906	1-114-869-11	CERAMIC CHIP	2.2µF	10%	6.3V
C9912	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9913	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9916	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C9918	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V

CONNECTOR

*	CN2260	1-822-484-11	HDMI CONNECTOR	
*	CN2261	1-822-484-11	HDMI CONNECTOR	
*	CN2262	1-822-484-11	HDMI CONNECTOR	
*	CN2263	1-822-484-11	HDMI CONNECTOR	
	CN2300	1-842-372-11	D SUB CONNECTER	
	CN2400	1-842-386-11	ETHERNET CONNECTOR (8P)	
	CN2404	1-822-423-11	CONNECTOR, USB (A)	
	CN2600	1-822-583-11	HEADER ASSEMBLY FOR PWB	
	CN2602	1-820-162-11	HEADER ASSEMBLY	30P
	CN2902	1-842-393-11	OPTICAL OUT CONNECTOR	
	CN3800	1-821-622-11	HEADER ASSEMBLY FOR PWB	
*	CN4300	1-819-462-11	HEADER ASSEMBLY FOR PWB	
	CN5501	1-842-325-11	CONNECTOR	4P
*	CN5502	1-774-667-51	CONNECTOR, FFC/FPC	18P

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BUHT

REF. NO.	PART NO.	DESCRIPTION	VALUES	
	DIODE			
D1002	8-719-056-48	DIODE	1SS388(TPL3)	
D1006	6-501-119-01	DIODE	RR264M-400	
D2200	6-502-150-01	DIODE	MA2SD320G8S0	
D2303	6-502-979-01	DIODE	DA4J104K0L	
D5005	8-719-027-76	DIODE	1SS357-TPH3	
	FUSE			
F1003	1-576-406-31	FUSE	1.4A	32V
F1006	1-576-646-31	FUSE	0.5A	50V
⚠ F4200	1-576-933-31	FUSE	5A	24V
F4300	1-576-933-31	FUSE	5A	24V
	FERRITE BEAD			
FB1001	1-481-199-21	FERRITE	0µH	
FB1005	1-481-199-21	FERRITE	0µH	
FB1007	1-481-199-21	FERRITE	0µH	
FB1010	1-481-199-21	FERRITE	0µH	
FB1011	1-481-517-11	FERRITE	0µH	
FB1012	1-481-199-21	FERRITE	0µH	
FB1013	1-400-693-21	FERRITE	0µH	
FB1017	1-481-199-21	FERRITE	0µH	
FB1018	1-481-199-21	FERRITE	0µH	
FB2401	1-481-517-11	FERRITE	0µH	
FB2404	1-481-517-11	FERRITE	0µH	
FB2407	1-481-517-11	FERRITE	0µH	
FB2602	1-481-517-11	FERRITE	0µH	
FB4000	1-400-179-21	FERRITE	0µH	
FB4001	1-400-179-21	FERRITE	0µH	
FB4002	1-400-179-21	FERRITE	0µH	
FB4200	1-400-834-21	FERRITE	0µH	
⚠ FB4201	1-400-834-21	FERRITE	0µH	
FB4202	1-400-834-21	FERRITE	0µH	
FB4300	1-400-834-21	FERRITE	0µH	
FB4301	1-400-834-21	FERRITE	0µH	
FB4302	1-400-834-21	FERRITE	0µH	
FB4502	1-400-179-21	FERRITE	0µH	
FB9652	1-400-331-11	FERRITE	0µH	
FB9653	1-400-331-11	FERRITE	0µH	
FB9655	1-400-331-11	FERRITE	0µH	
FB9656	1-400-331-11	FERRITE	0µH	
FB9657	1-400-331-11	FERRITE	0µH	
FB9800	1-481-466-11	FERRITE	0µH	

REF. NO.	PART NO.	DESCRIPTION	VALUES
	FILTER		
FL2200	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL9651	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL9658	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL9900	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
	IC		
IC1002	6-710-880-01	IC	S-1132B33-U5T1G
IC1006	6-709-510-01	IC	BH76106SHFV-TR
IC1009	8-759-278-58	IC	NJM4558V-TE2
IC1011	6-711-947-01	IC	MM1431CURE
IC2300	6-710-820-01	IC	S-24CS02AFJ-TB-G
IC2301	6-708-132-01	IC	74LVC14APW
IC2400	6-715-016-01	IC	KSZ8041RNLTR
IC3000	8-753-289-76	IC	CXA2241Q-T4
⚠ IC3700	6-713-863-01	IC	BD9540EFV-SE2
⚠ IC3702	6-709-512-01	IC	S-1132B18-M5T1G
IC3705	6-711-237-01	IC	NJM2878F3-33 (TE2)
IC4502	6-715-214-01	IC	CS5343-CZZR
IC4503	6-712-397-01	IC	74AHC1G08GW-125
IC5000	6-713-820-11	IC	MB91F313APMC-G-ERE1
IC5002	6-712-402-01	IC	74AHC1G32GW-125
IC5003	6-709-512-01	IC	S-1132B18-M5T1G
IC5008	6-704-573-01	IC	M24C32-WMN6T(B)
IC5013	6-713-291-01	IC	MM3285CNRE
IC9004	6-712-397-01	IC	74AHC1G08GW-125
IC9200	6-713-835-01	IC	K9F1208U0C-PIB0T
IC9201	6-713-835-01	IC	K9F1208U0C-PIB0T
IC9400	6-713-838-01	IC	EDE1116AEBG-8E-F-TR
IC9402	6-713-838-01	IC	EDE1116AEBG-8E-F-TR
IC9403	6-713-838-01	IC	EDE1116AEBG-8E-F-TR
	JACK		
J2100	1-842-370-11	PHONO JACK	5P
J2300	1-842-392-11	JACK, MINIATURE (DIA. 3.5)	
J2900	1-842-371-11	PHONO JACK	5P
	COIL		
L1002	1-481-524-11	INDUCTOR	10µH
L1004	1-457-725-21	INDUCTOR	4.7µH
L2200	1-457-539-11	INDUCTOR	0µH
L2201	1-457-539-11	INDUCTOR	0µH
L2260	1-457-539-11	INDUCTOR	0µH

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	REF. NO.	PART NO.	DESCRIPTION	VALUES
	L2261	1-457-539-11	INDUCTOR	0µH
	L2262	1-457-539-11	INDUCTOR	0µH
	L2263	1-457-539-11	INDUCTOR	0µH
	L2264	1-457-539-11	INDUCTOR	0µH
	L2265	1-457-539-11	INDUCTOR	0µH
	L2266	1-457-539-11	INDUCTOR	0µH
	L2267	1-457-539-11	INDUCTOR	0µH
	L2400	1-457-223-11	INDUCTOR	0µH
	L2403	1-457-223-11	INDUCTOR	0µH
*	L2560	1-457-685-11	INDUCTOR	0µH
*	L2561	1-457-685-11	INDUCTOR	0µH
*	L2562	1-457-685-11	INDUCTOR	0µH
*	L2563	1-457-685-11	INDUCTOR	0µH
*	L2564	1-457-685-11	INDUCTOR	0µH
*	L2565	1-457-685-11	INDUCTOR	0µH
	L3000	1-469-557-21	INDUCTOR	22µH
	L3700	1-457-730-11	INDUCTOR	2.2µH
	L3701	1-457-864-11	INDUCTOR	1µH
	L3702	1-457-873-11	INDUCTOR	4.7µH
	L3704	1-457-866-21	INDUCTOR	2.2µH
	L4200	1-457-899-11	INDUCTOR	15µH
	L4201	1-457-899-11	INDUCTOR	15µH
	L4202	1-457-899-11	INDUCTOR	15µH
	L4203	1-457-899-11	INDUCTOR	15µH
	L4301	1-457-899-11	INDUCTOR	15µH
	L4303	1-457-899-11	INDUCTOR	15µH
	L5501	1-457-875-11	INDUCTOR	22µH
	L9654	1-469-556-21	INDUCTOR	15µH
		TRANSISTOR		
	Q1001	6-551-321-01	TRANSISTOR	RT3WLMM-TP-1F
	Q2200	6-552-430-01	TRANSISTOR	DRC5114E0L
	Q2201	6-552-408-01	TRANSISTOR	DSC500100L
	Q3000	6-551-903-01	TRANSISTOR	RT3S02M-T111-1
	Q3001	6-551-903-01	TRANSISTOR	RT3S02M-T111-1
⚠	Q3700	6-552-212-01	TRANSISTOR	MP6K61FPFTR
	Q3701	6-552-457-01	TRANSISTOR	RP1E100RNFPFTR
	Q3702	6-552-457-01	TRANSISTOR	RP1E100RNFPFTR
	Q3703	6-550-354-01	TRANSISTOR	RTQ035P02TR
	Q3704	6-552-430-01	TRANSISTOR	DRC5114E0L
	Q3800	6-551-690-01	TRANSISTOR	RT3N11M-TP-1
	Q5003	6-552-431-01	TRANSISTOR	DRC5114T0L
	Q5004	6-551-321-01	TRANSISTOR	RT3WLMM-TP-1F
	Q5005	6-552-430-01	TRANSISTOR	DRC5114E0L
	Q5008	6-552-411-01	TRANSISTOR	DRA5114T0L
	Q5011	6-552-436-01	TRANSISTOR	DRC5123J0L
	Q5502	6-552-408-01	TRANSISTOR	DSC500100L
	Q5504	6-551-551-01	TRANSISTOR	RT3N77M-TP-1
*	Q5508	6-552-077-01	TRANSISTOR	RUE003N02TL
	Q9303	6-552-430-01	TRANSISTOR	DRC5114E0L
	Q9304	6-552-484-01	TRANSISTOR	RE1C002ZPFU7TL
	Q9651	6-552-407-01	TRANSISTOR	DSA500100L
		RESISTOR		
	R1003	1-218-941-81	METAL CHIP	100 5% 1/16W
	R1004	1-218-937-11	METAL CHIP	47 5% 1/16W
	R1005	1-218-937-11	METAL CHIP	47 5% 1/16W
	R1006	1-218-965-11	METAL CHIP	10K 5% 1/16W
	R1012	1-218-941-81	METAL CHIP	100 5% 1/16W
	R1013	1-218-937-11	METAL CHIP	47 5% 1/16W
	R1014	1-218-937-11	METAL CHIP	47 5% 1/16W
	R1015	1-218-937-11	METAL CHIP	47 5% 1/16W
	R1017	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
	R1020	1-218-989-11	METAL CHIP	1M 5% 1/16W
	R1022	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
	R1026	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
	R1027	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
	R1029	1-218-965-11	METAL CHIP	10K 5% 1/16W
	R1030	1-218-989-11	METAL CHIP	1M 5% 1/16W
	R1033	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
	R1041	1-218-958-11	METAL CHIP	2.7K 5% 1/16W
	R1042	1-208-687-11	METAL CHIP	1.5K 0.50% 1/16W
	R1048	1-218-977-11	METAL CHIP	100K 5% 1/16W
	R1049	1-218-941-11	METAL CHIP	100 5% 1/16W
	R1050	1-218-935-11	METAL CHIP	33 5% 1/16W
	R1051	1-208-675-11	METAL CHIP	470 0.50% 1/16W
	R1066	1-218-990-81	SHORT CHIP	
	R1067	1-218-990-81	SHORT CHIP	
	R1084	1-218-941-81	METAL CHIP	100 5% 1/16W
	R1085	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
	R1086	1-208-911-11	METAL CHIP	10K 0.50% 1/16W
	R1087	1-218-959-11	METAL CHIP	3.3K 5% 1/16W
	R1088	1-218-965-11	METAL CHIP	10K 5% 1/16W
	R1089	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
	R1091	1-218-977-11	METAL CHIP	100K 5% 1/16W
	R1092	1-218-941-81	METAL CHIP	100 5% 1/16W
	R1096	1-218-990-81	SHORT CHIP	
	R1110	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
	R1112	1-218-965-11	METAL CHIP	10K 5% 1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1113	1-218-990-81	SHORT CHIP			
R1114	1-218-990-81	SHORT CHIP			
R1118	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R1119	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2221	1-218-970-11	METAL CHIP	27K	5%	1/16W
R2230	1-218-929-11	METAL CHIP	10	5%	1/16W
R2236	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2243	1-218-945-11	METAL CHIP	220	5%	1/16W
R2244	1-208-859-81	METAL CHIP	68	0.50%	1/16W
R2260	1-218-929-11	METAL CHIP	10	5%	1/16W
R2261	1-218-929-11	METAL CHIP	10	5%	1/16W
R2262	1-218-929-11	METAL CHIP	10	5%	1/16W
R2269	1-218-929-11	METAL CHIP	10	5%	1/16W
R2285	1-218-941-81	METAL CHIP	100	5%	1/16W
R2286	1-218-941-81	METAL CHIP	100	5%	1/16W
R2287	1-218-941-81	METAL CHIP	100	5%	1/16W
R2288	1-218-941-81	METAL CHIP	100	5%	1/16W
R2300	1-218-953-11	METAL CHIP	1K	5%	1/16W
R2301	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2405	1-245-567-81	METAL CHIP	49.9	0.50%	1/16W
R2407	1-245-567-81	METAL CHIP	49.9	0.50%	1/16W
R2410	1-218-953-11	METAL CHIP	1K	5%	1/16W
R2411	1-218-937-11	METAL CHIP	47	5%	1/16W
R2413	1-250-271-81	METAL CHIP	6.49K	0.50%	1/16W
R2415	1-218-947-11	METAL CHIP	330	5%	1/16W
R2418	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R2419	1-245-567-81	METAL CHIP	49.9	0.50%	1/16W
R2420	1-216-864-11	SHORT CHIP			
R2421	1-245-567-81	METAL CHIP	49.9	0.50%	1/16W
R2423	1-218-970-11	METAL CHIP	27K	5%	1/16W
R2425	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R2431	1-218-967-11	METAL CHIP	15K	5%	1/16W
R2432	1-218-967-11	METAL CHIP	15K	5%	1/16W
R2439	1-218-967-11	METAL CHIP	15K	5%	1/16W
R2440	1-218-967-11	METAL CHIP	15K	5%	1/16W
R2504	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2505	1-218-953-11	METAL CHIP	1K	5%	1/16W
R2507	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2508	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2560	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2561	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2567	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2568	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2573	1-218-990-81	SHORT CHIP			
R2574	1-218-965-11	METAL CHIP	10K	5%	1/16W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2594	1-218-990-81	SHORT CHIP			
R2596	1-208-935-11	METAL CHIP	100K	0.50%	1/16W
R2597	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R2628	1-218-990-81	SHORT CHIP			
R2631	1-218-945-11	METAL CHIP	220	5%	1/16W
R2635	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2900	1-218-990-81	SHORT CHIP			
R2901	1-218-990-81	SHORT CHIP			
R2915	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R3005	1-218-941-81	METAL CHIP	100	5%	1/16W
R3007	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R3008	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R3009	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R3010	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R3700	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3701	1-208-943-11	METAL CHIP	220K	0.50%	1/16W
R3702	1-208-709-11	METAL CHIP	12K	0.50%	1/16W
R3703	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R3704	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R3705	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R3706	1-218-977-11	METAL CHIP	100K	5%	1/16W
R3707	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3713	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3714	1-218-953-11	METAL CHIP	1K	5%	1/16W
R3719	1-208-715-11	METAL CHIP	22K	0.50%	1/16W
R3721	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R3722	1-208-931-11	METAL CHIP	68K	0.50%	1/16W
R3723	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R3727	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R3728	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R3740	1-218-973-11	METAL CHIP	47K	5%	1/16W
R3741	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R3742	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R3808	1-218-977-11	METAL CHIP	100K	5%	1/16W
R3902	1-218-990-81	SHORT CHIP			
R4002	1-218-969-11	METAL CHIP	22K	5%	1/16W
R4201	1-208-713-11	METAL CHIP	18K	0.50%	1/16W
R4202	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4205	1-218-949-11	METAL CHIP	470	5%	1/16W
R4206	1-218-949-11	METAL CHIP	470	5%	1/16W
R4207	1-218-969-11	METAL CHIP	22K	5%	1/16W
R4212	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4301	1-208-713-11	METAL CHIP	18K	0.50%	1/16W
R4302	1-218-953-11	METAL CHIP	1K	5%	1/16W
R4305	1-218-949-11	METAL CHIP	470	5%	1/16W

BUHT

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R4306	1-218-949-11	METAL CHIP	470	5%	1/16W
R4307	1-218-969-11	METAL CHIP	22K	5%	1/16W
R4312	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4500	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4505	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R4506	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R5003	1-208-931-11	METAL CHIP	68K	0.50%	1/16W
R5004	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W
R5007	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R5009	1-218-977-11	METAL CHIP	100K	5%	1/16W
R5010	1-218-973-11	METAL CHIP	47K	5%	1/16W
R5016	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5019	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5020	1-218-941-81	METAL CHIP	100	5%	1/16W
R5021	1-218-949-11	METAL CHIP	470	5%	1/16W
R5025	1-218-937-11	METAL CHIP	47	5%	1/16W
R5030	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5031	1-218-953-11	METAL CHIP	1K	5%	1/16W
R5033	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R5035	1-245-604-11	METAL CHIP	10M	5%	1/16W
R5037	1-218-953-11	METAL CHIP	1K	5%	1/16W
R5039	1-208-943-11	METAL CHIP	220K	0.50%	1/16W
R5050	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R5052	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R5054	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5058	1-218-953-11	METAL CHIP	1K	5%	1/16W
R5063	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5067	1-218-953-11	METAL CHIP	1K	5%	1/16W
R5072	1-218-990-81	SHORT CHIP			
R5073	1-218-990-81	SHORT CHIP			
R5079	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5080	1-218-969-11	METAL CHIP	22K	5%	1/16W
R5115	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R5118	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5119	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5120	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R5123	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5124	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5126	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5131	1-218-941-81	METAL CHIP	100	5%	1/16W
R5133	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5134	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R5500	1-216-864-11	SHORT CHIP		NX810/NX811	
R5501	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
* R5503	1-248-336-11	RES-CHIP	0.1	1%	1/3W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R5507	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R5508	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R5512	1-218-941-81	METAL CHIP	100	5%	1/16W
R5513	1-218-941-81	METAL CHIP	100	5%	1/16W
R5524	1-218-983-11	METAL CHIP	330K	5%	1/16W
R5532	1-218-941-81	METAL CHIP	100	5%	1/16W
R5543	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R5544	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R5545	1-218-979-11	METAL CHIP	150K	5%	1/16W
R5550	1-218-971-11	METAL CHIP	33K	5%	1/16W
R5552	1-218-979-11	METAL CHIP	150K	5%	1/16W
R5554	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5556	1-218-983-11	METAL CHIP	330K	5%	1/16W
R5557	1-218-935-11	METAL CHIP	33	5%	1/16W
R5559	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9005	1-218-941-81	METAL CHIP	100	5%	1/16W
R9008	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9014	1-218-945-11	METAL CHIP	220	5%	1/16W
R9016	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9017	1-218-937-11	METAL CHIP	47	5%	1/16W
R9020	1-208-859-81	METAL CHIP	68	0.50%	1/16W
R9026	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9035	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9053	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9054	1-218-937-11	METAL CHIP	47	5%	1/16W
R9055	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9112	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9200	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9201	1-218-953-11	METAL CHIP	1K	5%	1/16W
R9203	1-218-941-81	METAL CHIP	100	5%	1/16W
R9211	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9216	1-218-937-11	METAL CHIP	47	5%	1/16W
R9230	1-218-949-11	METAL CHIP	470	5%	1/16W
R9231	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9270	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9284	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9286	1-218-937-11	METAL CHIP	47	5%	1/16W
R9301	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9327	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9333	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9334	1-218-953-11	METAL CHIP	1K	5%	1/16W
R9341	1-218-990-81	SHORT CHIP			
R9348	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9349	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9352	1-218-965-11	METAL CHIP	10K	5%	1/16W

BUHT

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R9353	1-218-973-11	METAL CHIP	47K	5%	1/16W
R9400	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9401	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9403	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R9404	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R9405	1-218-935-11	METAL CHIP	33	5%	1/16W
R9406	1-218-935-11	METAL CHIP	33	5%	1/16W
R9407	1-218-943-11	METAL CHIP	150	5%	1/16W
R9408	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9409	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9410	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9411	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9421	1-218-935-11	METAL CHIP	33	5%	1/16W
R9422	1-218-929-11	METAL CHIP	10	5%	1/16W
R9427	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R9428	1-208-663-11	METAL CHIP	150	0.50%	1/16W
R9429	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9430	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9431	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9432	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R9433	1-218-933-11	METAL CHIP	22	5%	1/16W
R9434	1-218-933-11	METAL CHIP	22	5%	1/16W
R9435	1-218-933-11	METAL CHIP	22	5%	1/16W
R9436	1-218-933-11	METAL CHIP	22	5%	1/16W
R9437	1-218-933-11	METAL CHIP	22	5%	1/16W
R9438	1-218-933-11	METAL CHIP	22	5%	1/16W
R9601	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9602	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9603	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9604	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9605	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9606	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9607	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9608	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9609	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9610	1-208-643-11	METAL CHIP	22	0.50%	1/16W
R9611	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R9612	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9613	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9614	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9615	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9616	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9617	1-218-823-11	METAL CHIP	100	0.50%	1/10W
R9618	1-218-829-11	METAL CHIP	180	0.50%	1/10W
R9628	1-218-990-81	SHORT CHIP			
R9630	1-218-990-81	SHORT CHIP			
R9651	1-218-941-81	METAL CHIP	100	5%	1/16W
R9652	1-218-945-11	METAL CHIP	220	5%	1/16W
R9653	1-218-947-11	METAL CHIP	330	5%	1/16W
R9654	1-208-883-81	METAL CHIP	680	0.50%	1/16W
R9655	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R9656	1-208-687-11	METAL CHIP	1.5K	0.50%	1/16W
R9730	1-220-884-11	METAL CHIP	39	0.50%	1/16W
R9731	1-220-884-11	METAL CHIP	39	0.50%	1/16W
R9732	1-208-688-11	METAL CHIP	1.6K	0.50%	1/16W
R9733	1-220-884-11	METAL CHIP	39	0.50%	1/16W
R9734	1-220-884-11	METAL CHIP	39	0.50%	1/16W
R9736	1-216-864-11	SHORT CHIP			
R9737	1-216-864-11	SHORT CHIP			
R9900	1-208-893-11	METAL CHIP	1.8K	0.50%	1/16W
R9901	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9907	1-208-635-11	METAL CHIP	10	0.50%	1/16W
R9908	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9909	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9910	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9911	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9912	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9913	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9914	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R9915	1-208-671-11	METAL CHIP	330	0.50%	1/16W

RESISTOR BRIDGE

	RB1000	1-234-710-21	RES, CHIP NETWORK 47X8 (3816)
*	RB2100	1-234-384-11	RES, NETWORK 1M (1005X4)
	RB2101	1-234-375-21	RES, NETWORK 1K (1005X4)
	RB2200	1-234-377-21	RES, NETWORK 4.7K (1005X4)
	RB2201	1-234-381-11	RES, NETWORK 100K (1005X4)
	RB2202	1-234-375-21	RES, NETWORK 1K (1005X4)
	RB2260	1-234-380-21	RES, NETWORK 47K (1005X4)
	RB2261	1-234-380-21	RES, NETWORK 47K (1005X4)
	RB2262	1-234-380-21	RES, NETWORK 47K (1005X4)
	RB2263	1-234-380-21	RES, NETWORK 47K (1005X4)
	RB2265	1-234-378-21	RES, NETWORK 10K (1005X4)
*	RB2300	1-234-384-11	RES, NETWORK 1M (1005X4)
	RB2302	1-234-376-11	RES, NETWORK 2.2K (1005X4)
	RB2303	1-234-371-21	RES, NETWORK 47 (1005X4)
	RB2304	1-234-370-21	RES, NETWORK 22 (1005X4)

BUHT

	REF. NO.	PART NO.	DESCRIPTION	VALUES
	RB2305	1-234-375-21	RES, NETWORK 1K	(1005X4)
	RB2306	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB2400	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB2402	1-234-375-21	RES, NETWORK 1K	(1005X4)
	RB2403	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB2404	1-234-375-21	RES, NETWORK 1K	(1005X4)
	RB2405	1-234-373-21	RES, NETWORK 220	(1005X4)
	RB2406	1-234-373-21	RES, NETWORK 220	(1005X4)
	RB2407	1-234-378-21	RES, NETWORK 10K	(1005X4)
*	RB2408	1-234-723-21	RES, NETWORK 75	(1005X4)
	RB2569	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB2570	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB2605	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB2614	1-234-378-21	RES, NETWORK 10K	(1005X4)
*	RB2902	1-234-384-11	RES, NETWORK 1M	(1005X4)
*	RB2903	1-234-384-11	RES, NETWORK 1M	(1005X4)
	RB2904	1-234-375-21	RES, NETWORK 1K	(1005X4)
	RB3001	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB3003	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB3800	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB3900	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB4001	1-234-381-11	RES, NETWORK 100K	(1005X4)
	RB4002	1-234-381-11	RES, NETWORK 100K	(1005X4)
	RB4008	1-234-374-21	RES, NETWORK 470	(1005X4)
	RB4507	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB4509	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB4510	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB4511	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB4517	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB5000	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB5001	1-234-376-11	RES, NETWORK 2.2K	(1005X4)
	RB5002	1-234-376-11	RES, NETWORK 2.2K	(1005X4)
	RB5007	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5009	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB5013	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5017	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5021	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5024	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5025	1-234-375-21	RES, NETWORK 1K	(1005X4)
	RB5027	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB5029	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)
	RB5036	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB5039	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB5041	1-234-785-21	RES, CHIP NETWORK 100X8	(3816)
	RB5042	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5043	1-234-785-21	RES, CHIP NETWORK 100X8	(3816)
	RB5044	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB5045	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB9004	1-234-376-11	RES, NETWORK 2.2K	(1005X4)
	RB9005	1-234-376-11	RES, NETWORK 2.2K	(1005X4)
	RB9006	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9007	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9008	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9009	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9011	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9012	1-234-376-11	RES, NETWORK 2.2K	(1005X4)
	RB9013	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9014	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9015	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9016	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9100	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
	RB9101	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
	RB9102	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9103	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB9104	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB9105	1-234-372-11	RES, NETWORK 100	(1005X4)
	RB9111	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9112	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9113	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9201	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9202	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9203	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9204	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9205	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB9206	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB9207	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB9208	1-234-710-21	RES, CHIP NETWORK 47X8	(3816)
	RB9210	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9211	1-234-371-21	RES, NETWORK 47	(1005X4)
	RB9212	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9213	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9214	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9215	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9216	1-234-370-21	RES, NETWORK 22	(1005X4)
	RB9217	1-234-370-21	RES, NETWORK 22	(1005X4)
	RB9220	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9221	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9223	1-234-378-21	RES, NETWORK 10K	(1005X4)
	RB9224	1-234-370-21	RES, NETWORK 22	(1005X4)
	RB9225	1-234-370-21	RES, NETWORK 22	(1005X4)

BUHT

REF. NO.	PART NO.	DESCRIPTION	VALUES
RB9226	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9227	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9228	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9230	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9231	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9232	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9233	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9400	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9401	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9402	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9403	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9404	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9406	1-234-369-21	RES, NETWORK 10	(1005X4)
RB9407	1-234-369-21	RES, NETWORK 10	(1005X4)
RB9408	1-234-369-21	RES, NETWORK 10	(1005X4)
RB9409	1-234-369-21	RES, NETWORK 10	(1005X4)
RB9410	1-234-369-21	RES, NETWORK 10	(1005X4)
RB9411	1-242-963-21	RES, NETWORK 33	(1005X4)
RB9760	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
RB9761	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
RB9762	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
RB9763	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
RB9764	1-234-799-21	RES, CHIP NETWORK 10KX8	(3816)
RB9765	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9766	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9767	1-234-372-11	RES, NETWORK 100	(1005X4)
RB9768	1-234-378-21	RES, NETWORK 10K	(1005X4)
RB9900	1-234-378-21	RES, NETWORK 10K	(1005X4)

TRANSFORMER

T2400	1-443-830-21	MAGNETIC MODULE(TLA-6T213LF(-T)	

TUNER

TU1013	8-597-731-00	UNIVERSAL SIL-TU	SUT-HA101Z

VARISTOR

VD2100	1-802-090-21	VARISTOR, CHIP	
VD2101	1-802-090-21	VARISTOR, CHIP	
VD2102	1-802-090-21	VARISTOR, CHIP	
VD2105	1-802-090-21	VARISTOR, CHIP	
VD2106	1-802-090-21	VARISTOR, CHIP	
VD2300	1-802-090-21	VARISTOR, CHIP	
VD2301	1-802-090-21	VARISTOR, CHIP	
VD2308	1-802-090-21	VARISTOR, CHIP	
VD2309	1-802-090-21	VARISTOR, CHIP	
VD2310	1-802-090-21	VARISTOR, CHIP	
VD2311	1-802-090-21	VARISTOR, CHIP	
VD2312	1-802-090-21	VARISTOR, CHIP	
VD2900	1-802-090-21	VARISTOR, CHIP	
VD2911	1-802-090-21	VARISTOR, CHIP	
VD2913	1-802-090-21	VARISTOR, CHIP	
VD2915	1-802-090-21	VARISTOR, CHIP	
VD2917	1-802-090-21	VARISTOR, CHIP	
VD5500	1-802-090-21	VARISTOR, CHIP	
VD5501	1-802-090-21	VARISTOR, CHIP	
VD5503	1-802-090-21	VARISTOR, CHIP	
VD5504	1-802-090-21	VARISTOR, CHIP	
VD5505	1-802-090-21	VARISTOR, CHIP	
VD5506	1-802-090-21	VARISTOR, CHIP	
VD5507	1-802-090-21	VARISTOR, CHIP	
VD5508	1-802-090-21	VARISTOR, CHIP	
VD5509	1-802-090-21	VARISTOR, CHIP	
VD5510	1-802-090-21	VARISTOR, CHIP	
VD5511	1-802-090-21	VARISTOR, CHIP	
VD5512	1-802-090-21	VARISTOR, CHIP	
VD5513	1-802-090-21	VARISTOR, CHIP	
VD5514	1-802-090-21	VARISTOR, CHIP	
VD5515	1-802-090-21	VARISTOR, CHIP	
VD5516	1-802-090-21	VARISTOR, CHIP	
VD5517	1-802-090-21	VARISTOR, CHIP	

CRYSTAL

X2402	1-814-363-11	QUARTZ CRYSTAL UNIT	
X5001	1-813-784-21	VIBRATOR, CRYSTAL	
X5003	1-814-288-21	VIBRATOR, CERAMIC	
X9001	1-814-392-11	QUARTZ CRYSTAL UNIT	
X9730	1-814-252-11	PIEZOELECTRIC OSCILLATOR	30MHZ

G9B G10 G11 HLT

G9B

1-474-257-11 G9B (POWER) BOARD, COMPLETE (KDL-46NX810/55NX810/55NX811 ONLY)

Component level repair information is not available.

G10

1-474-254-11 G10 (POWER) BOARD, COMPLETE (KDL-60NX810 ONLY)

Component level repair information is not available.

G11

1-474-255-11 G10 (POWER) BOARD, COMPLETE (KDL-60NX810 ONLY)

Component level repair information is not available.

HLT

A-1782-538-A HLT(STD) BOARD, MOUNTED

CAPACITOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C002	1-112-068-11	CERAMIC CHIP	220pF	10%	50V
C004	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C008	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V

CONNECTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
CN001	1-821-139-11	HEADER ASSEMBLY FOR PWB	

DIODE

REF. NO.	PART NO.	DESCRIPTION	VALUES
D001	6-503-064-01	DIODE	LNJ337W830S0
D002	6-503-082-01	DIODE	LNJ437W840S0
D003	6-503-064-01	DIODE	LNJ337W830S0
D005	6-503-068-01	DIODE	LNJ837W830S0

PHOTO COUPLER

REF. NO.	PART NO.	DESCRIPTION	VALUES
PH002	6-600-680-01	PHOTO DIODE	BH1690FVC-TR

TRANSISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES
Q007	6-552-407-01	TRANSISTOR	DSA500100L
Q008	6-551-690-01	TRANSISTOR	RT3N11M-TP-1
Q009	6-551-690-01	TRANSISTOR	RT3N11M-TP-1

RESISTOR

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R001	1-220-179-11	METAL CHIP	510	5%	1/16W
R002	1-208-889-11	METAL CHIP	1.2K	0.50%	1/16W
R003	1-220-179-11	METAL CHIP	510	5%	1/16W
R006	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R008	1-218-941-81	METAL CHIP	100	5%	1/16W
R010	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R011	1-218-937-11	METAL CHIP	47	5%	1/16W
R014	1-220-214-11	METAL CHIP	430K	5%	1/16W
R015	1-218-965-11	METAL CHIP	10K	5%	1/16W
R016	1-218-971-11	METAL CHIP	33K	5%	1/16W
R018	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 orignally 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.**

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Sony Technology Center
Technical Services
Service Publication Department

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PRINTING THE ELECTRONIC DOCUMENT

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS

If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape (▭) mode.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

1) To view the Graphics Select Tool, press and HOLD the mouse button over the Text Select Tool which looks like: 
This tool will expand to reveal to additional tools.
Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like: 

2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.

3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee. 

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

NOTE: Les composants identifies per 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.

If the replacement LCD panel for a specified serial number range is No Longer Available (NLA), the panel from another serial number range may be used as a replacement provided the additional parts listed in this document are also replaced.

AZ1H - Chassis

KDL46NX810

Starting Serial #	Ending Serial #	Destination
5,000,001	5,500,000	CND
5,500,001	5,600,000	US

REF #	Part Number	Description
103	419929001	✳ LABEL, SIDE JACK (L)
102	419930201	✳ LABEL, TERMINAL (FOR US)
101-A	A1788402A	LCD PANEL ASSY (S46TQL-S) (1st Production Run) - T-MOD (S46TQL-S)
101-B	A1803085A	LCD PANEL ASSY (S46TQL-S) (2nd Production Run) - T-MOD (S46TQL-S)
ADJ	NA	✳ SERVICE ADJUSTMENTS REQUIRED
SFT	NA	✳ SOFTWARE UPDATE REQUIRED

Ref # 101-A assembly includes

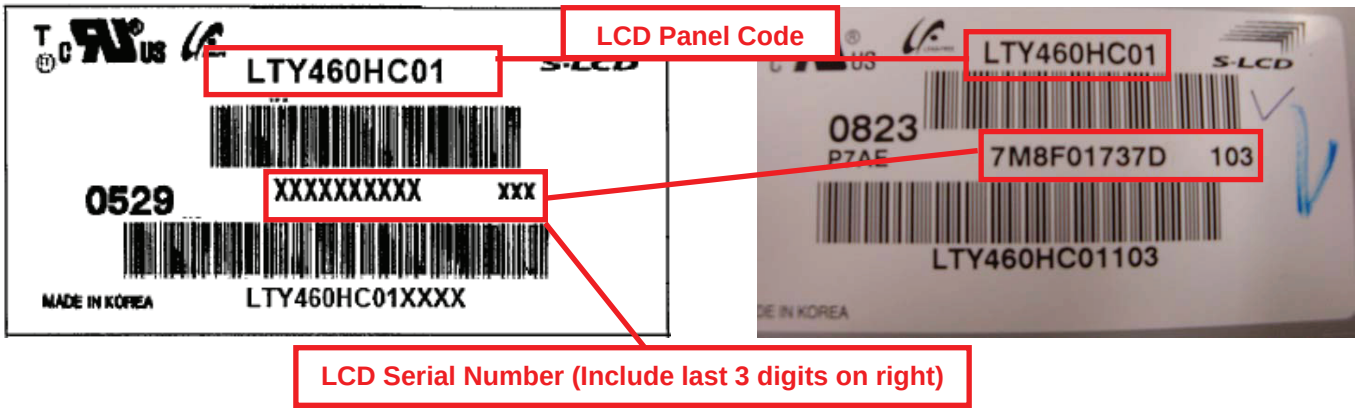
REF #	Part Number	Description
CONV	185784711	(CONVERTER) LED DRIVER BOARD
TCON	CrossRef	TCON - Order using Panel Cross Reference

Ref # 101-B assembly includes

REF #	Part Number	Description
CONV	185784711	(CONVERTER) LED DRIVER BOARD
TCON	CrossRef	TCON - Order using Panel Cross Reference

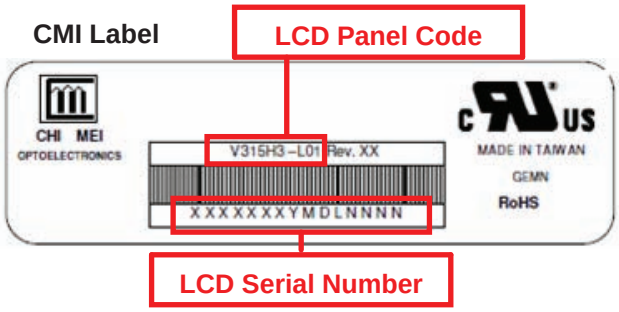
Sample LCD Panel Labels

S-LCD Labels



AUO Label

CMI Label



Sharp Labels

NOTE: For AUO and Sharp Panel serial numbers enter as many digits as the text box will allow.

Sample Service Bench Form