

SERVICE MANUAL

AZ2-F CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DESTINATION</u>
KDL-40NX720	RM-YD069	MX/LA
KDL-46NX720	RM-YD069	MX/LA
KDL-46NX720	RM-YD059	US/CND
KDL-55NX720	RM-YD069	MX/LA
KDL-55NX720	RM-YD059	US/CND
KDL-60NX720	RM-YD059	US/CND

LEVEL 3
CONFIDENTIAL

CONFIDENTIAL
ELECTRICAL SERVICE MANUAL
INTERNAL ONLY

ORIGINAL MANUAL ISSUE DATE: 3/2011

<u>REVISION DATE</u>	<u>SUBJECT</u>
3/4/2011	Original Manual Release Date.
11/9/2011	Added Accessories and Packing to Electrical Parts List. Replaced pages 59-60.
1/25/2012	Added Warnings and Caution information. Added Safety-Related Warning information. Updated Safety Check-Out information. Reissue entire manual.

LCD DIGITAL COLOR TV
SONY[®]

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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.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, in case of live chassis.

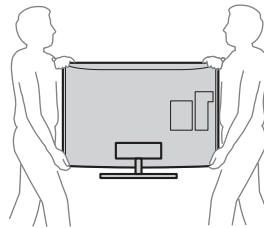
SAFETY-RELATED COMPONENT WARNING!!

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 warranty.

CARRYING THE TV

- Disconnect all cables when 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.




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.

ALERTE!!

Afin d'éviter tout risque d'électrocution provenant d'un châssis sous tension, un transformateur d'isolement doit être utilisé lors de tout dépannage.

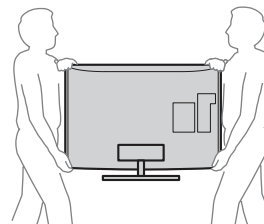
ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Il ya des composants essentiels utilisés dans les téléviseurs LCD couleur qui sont importants pour la sécurité. Ces composants sont identifiés à l'ombrage et  marque sur les schémas et la liste des pièces électriques. Il est essentiel que ces parties critiques être remplacé uniquement avec le numéro de pièce figurant dans la liste des pièces électriques pour éviter les chocs électriques, d'incendie ou autre danger.

NOTE: Ne pas modifier la version originale sans obtenir la permission écrite du fabricant ou que vous annulera les pièces d'origine ainsi que la garantie du travail.

POUR TRANSPORTER LE TÉLÉVISEUR

- Débranchez tous les câbles avant de transporter le téléviseur.
- Transportez le téléviseur avec le nombre adéquat de personnes; téléviseur de grande taille nécessitent deux personnes ou plus.
- Lors du transport du téléviseur, le bon emplacement des mains est très important pour votre sécurité, ainsi que pour éviter de causer des dommages.



SAFETY-RELATED WARNING

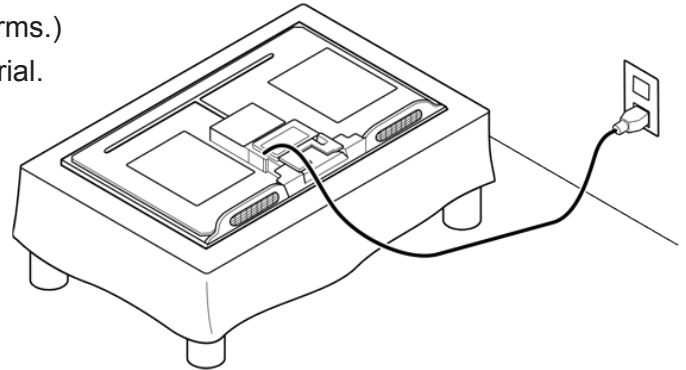
USE CAUTION WHEN HANDLING THE LCD PANEL

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

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

To avoid damaging the LCD panel:

- 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 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 (CCFL) or inverter circuit.
(High voltage occurs at the inverter circuit at 650Vrms.)
- 7) Always clean the LCD panel 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.



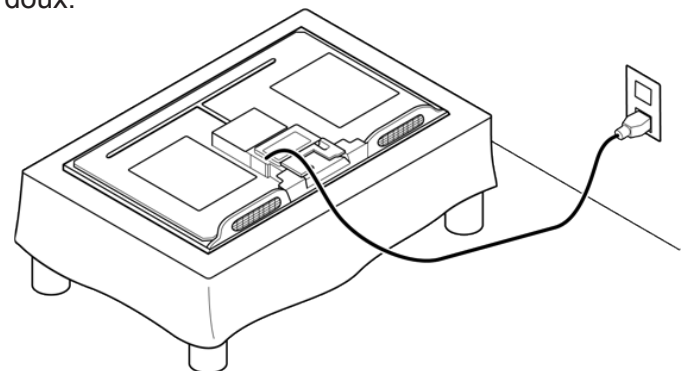
FAITES ATTENTION LORS DE LA MANIPULATION DE L'ÉCRAN ACL

Au moment de réparer l'écran ACL, assurez-vous d'être mis à la terre à l'aide d'un bracelet à cet effet.

Au moment d'installer le panneau ACL sur un mur, il doit être maintenant en place à l'aide des 4 orifices de fixation présents au couvercle arrière.

Pour éviter d'endommager l'écran LCD:

- 1) N'appuyez pas sur le bord du panneau ou du cadre afin d'éviter le risque de choc électrique.
- 2) Ne rayez pas ou n'appuyez pas sur le panneau avec des objets pointus.
- 3) Ne laissez pas le module exposé à des températures élevées ou dans des secteurs à haut niveau d'humidité pour une période prolongée.
- 4) N'exposez pas le panneau ACL à l'ensoleillement direct.
- 5) Évitez le contact avec l'eau, car elle peut causer un court-circuit dans le module.
- 6) Déconnectez l'alimentation c.a. au moment de remplacer le rétroéclairage ou le circuit inverseur (Un voltage élevé se produit dans le circuit inverseur à 650Vrms).
- 7) Nettoyez toujours le panneau ACL avec un chiffon doux.
- 8) Faites attention lors de la manipulation des fils ou connecteurs du circuit inverseur. Le fait d'endommager les films peut causer un court-circuit.
- 9) Protégez le panneau des décharges électrostatiques afin d'éviter d'endommager le circuit électronique (C-MOS).
- 10) Pendant la réparation, **NE LAISSEZ PAS l'alimentation en fonction pendant plus de 1 heure** pendant que l'écran du téléviseur repose sur un tissu.



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. Follow the manufacturers' instructions.
2. A battery-operated AC milliammeter.
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. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable. (see Figure A)

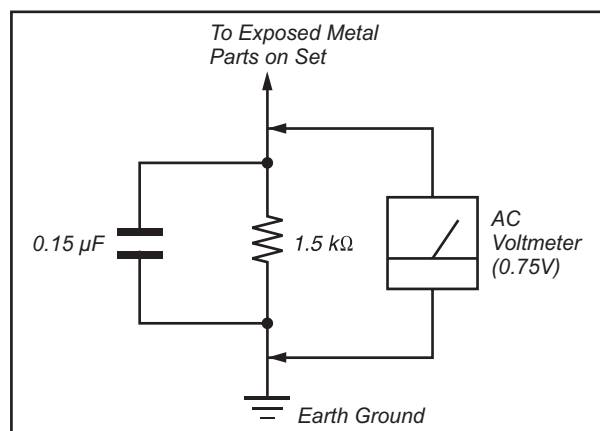


Figure A. Use an AC voltmeter to check AC leakage.

HOW TO FIND A GOOD EARTH GROUND

The cover-plate retaining screw on most AC outlet boxes is at earth ground. Verify the AC outlet box retaining screw ground by connecting 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)

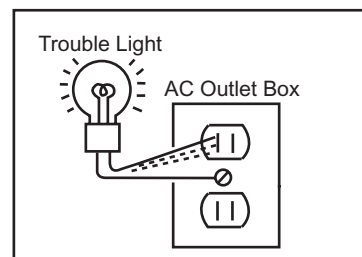
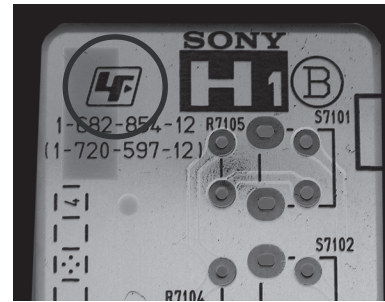


Figure B. Checking for earth ground.

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.

SECTION 1: DIAGRAMS

1-1. CIRCUIT BOARDS LOCATION

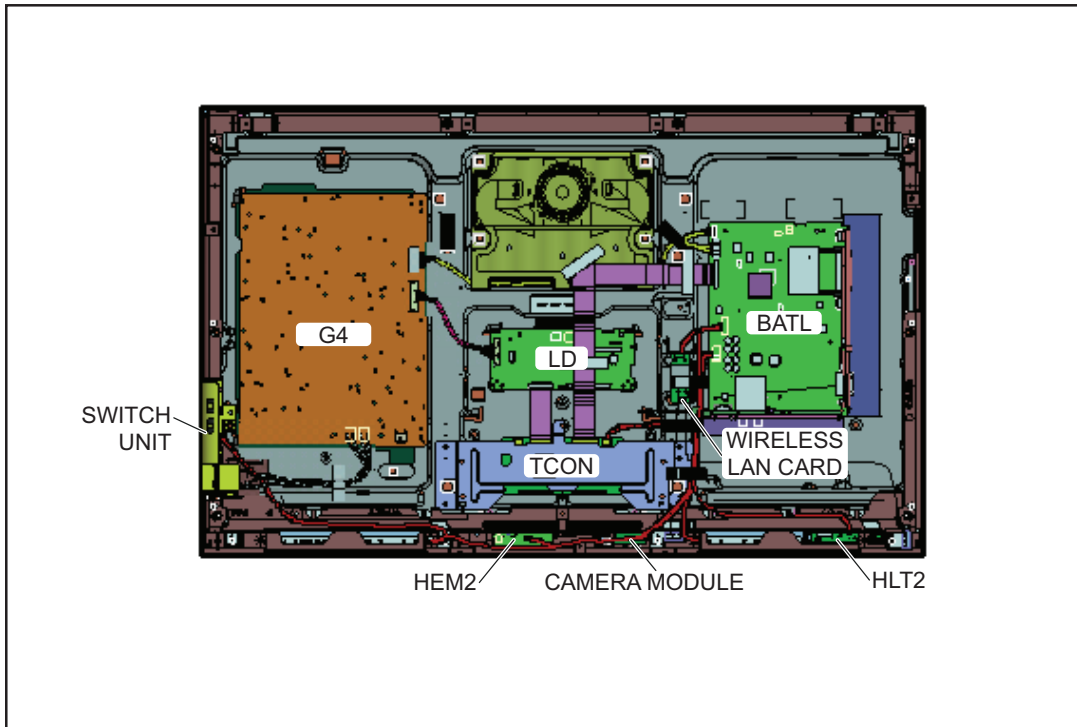


Figure 1-1. KDL-40NX720 ONLY

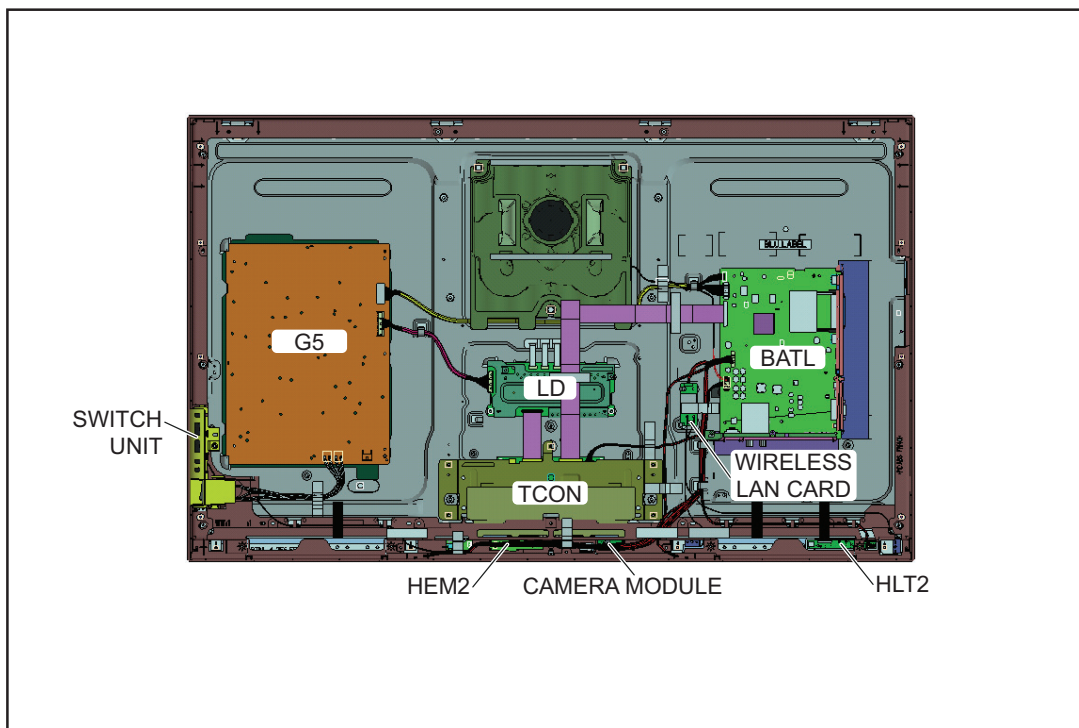


Figure 1-2. KDL-46NX720 ONLY

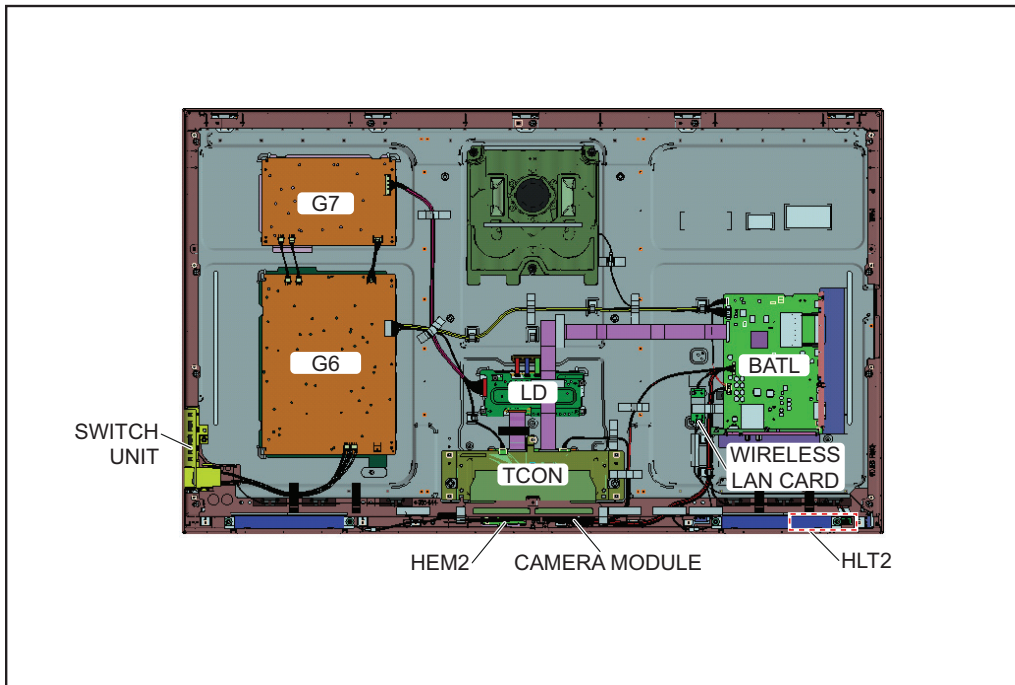


Figure 1-3. KDL-55NX720 ONLY

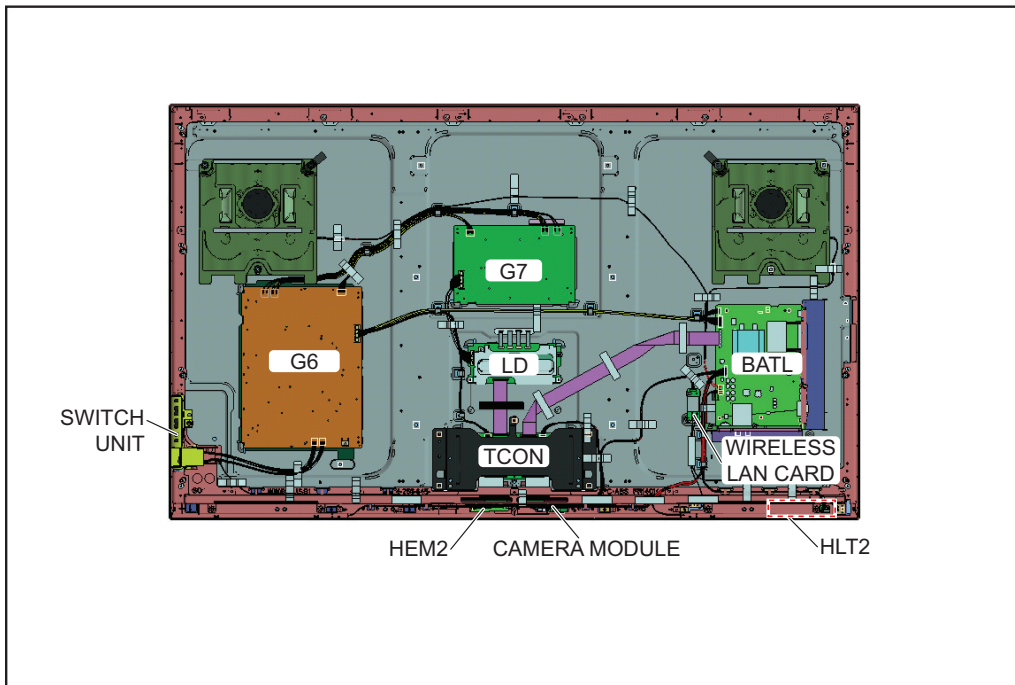


Figure 1-4. KDL-60NX720 ONLY

1-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

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

All electrolytics are in 50V unless otherwise specified.

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


Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm

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

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

 : nonflammable resistor

 : fusible resistor

 : internal component

 : panel designation and adjustment for repair

 : earth ground

 : earth-chassis

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

Readings are taken with a color-bar signal input.

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

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.


S : Measurement impossibility.


 : B+line.


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


 : signal path. (RF)


Circled numbers are waveform references.

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

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

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

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

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

REFERENCE INFORMATION

RESISTOR		COIL
: RN METAL FILM		: LF-8L MICRO INDUCTOR
: RC SOLID		CAPACITOR
: FPRD NONFLAMMABLE CARBON		: TA TANTALUM
: FUSE NONFLAMMABLE FUSIBLE		: PS STYROL
: RW NONFLAMMABLE WIREWOUND		: PP POLYPROPYLENE
: RS NONFLAMMABLE METAL OXIDE		: PT MYLAR
: RB NONFLAMMABLE CEMENT		: MPS METALIZED POLYESTER
: ※ ADJUSTMENT RESISTOR		: MPP METALIZED POLYPROPYLENE
		: ALB BIPOLAR
		: ALT HIGH TEMPERATURE
		: ALR HIGH RIPPLE

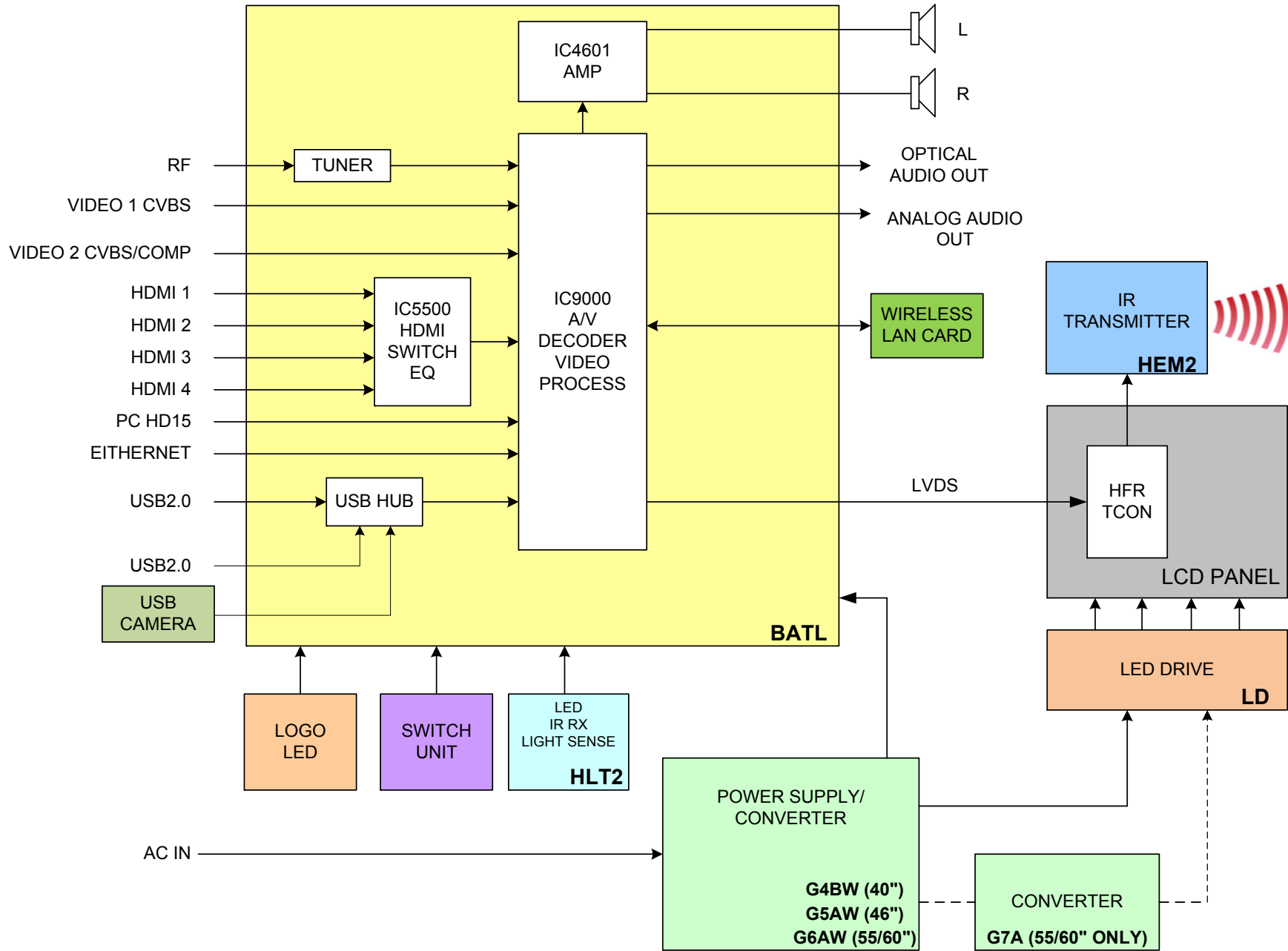
Terminal name of semiconductors in silk screen printed circuit (※)

	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 Cathode	
13	Transistor (FET)		Drain Gate Source	
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			

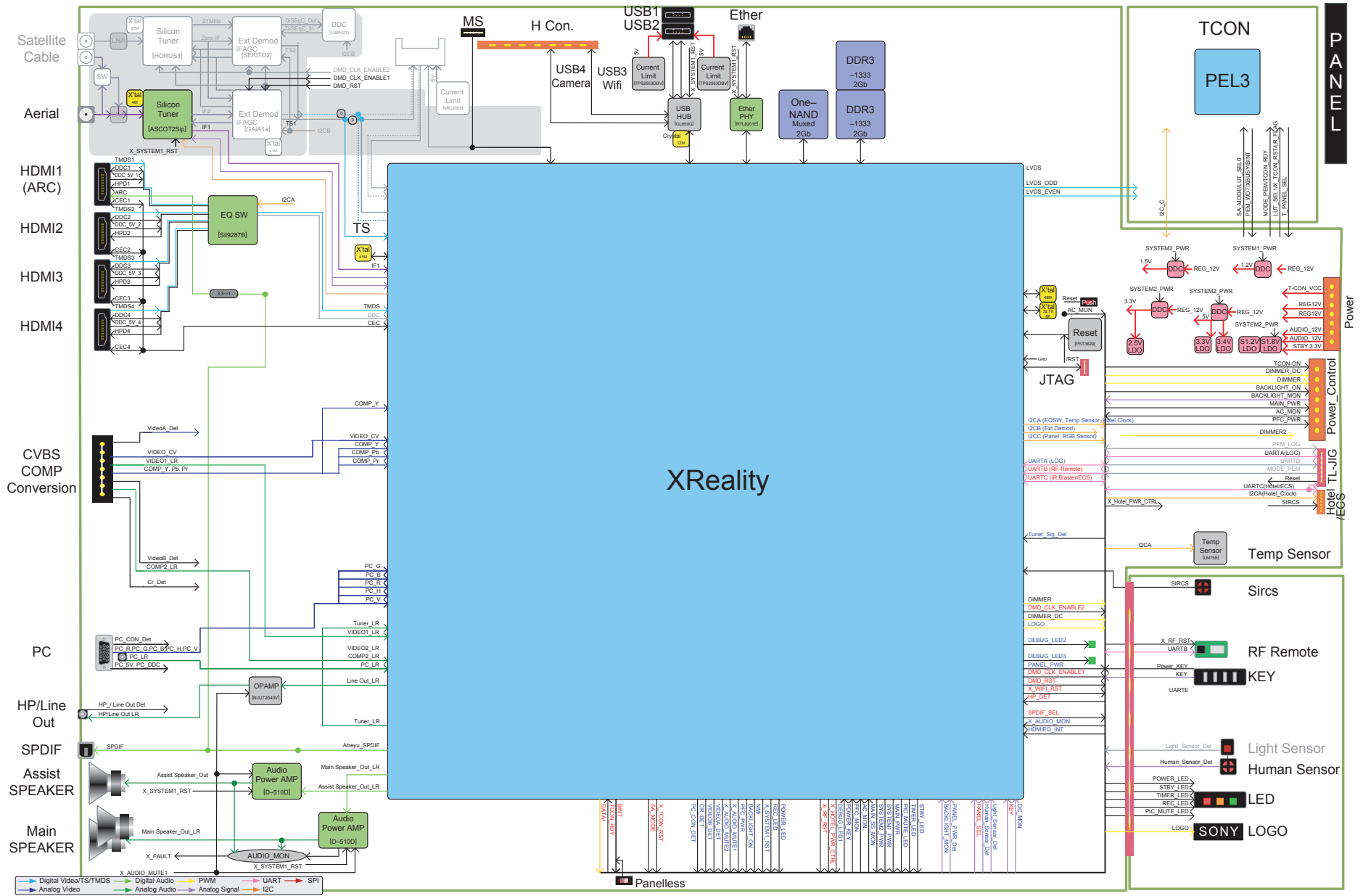
(Chip semiconductors that are not actually used are included.)

Ver.1.6

1-3. BLOCK DIAGRAMS

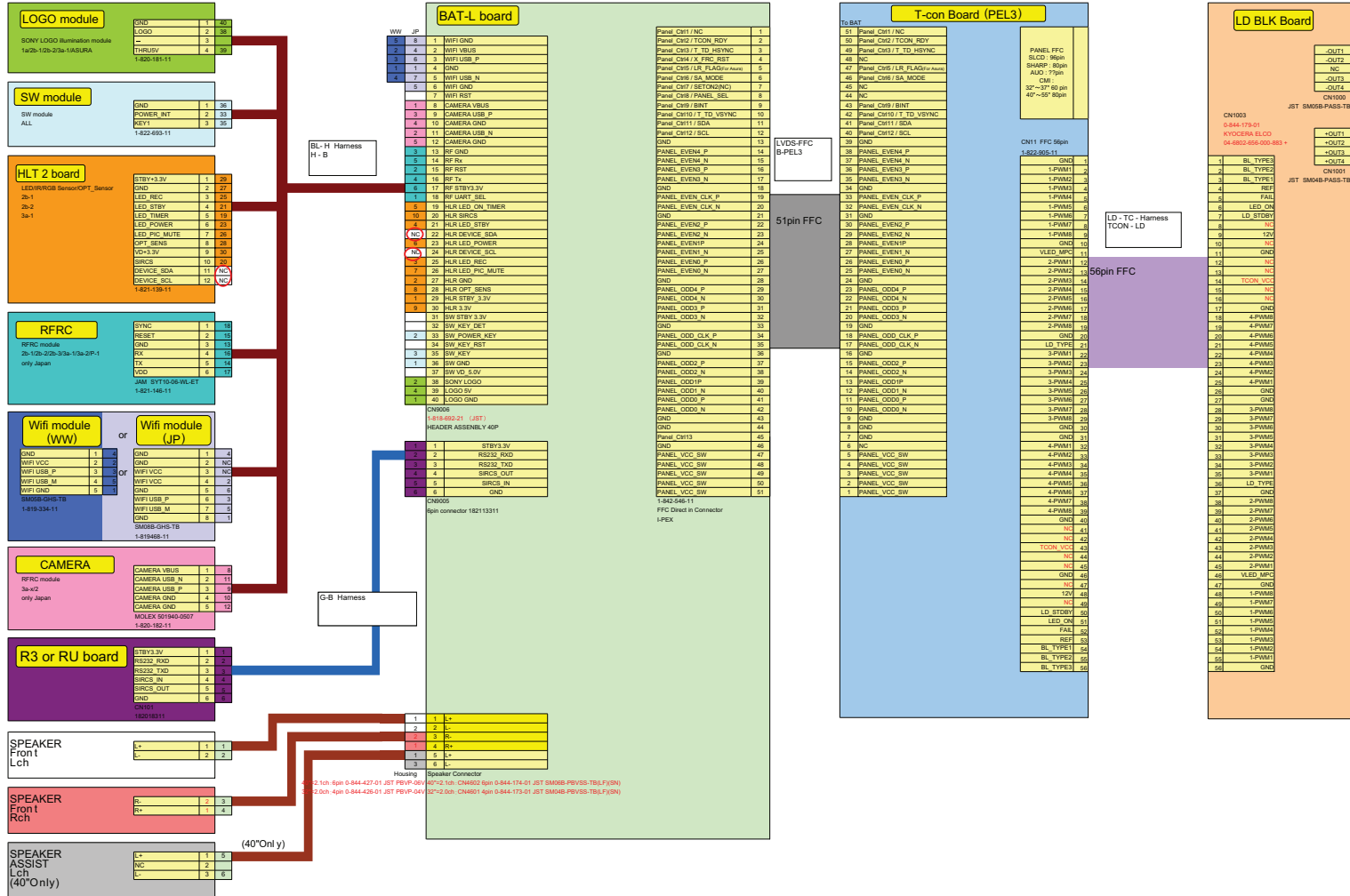


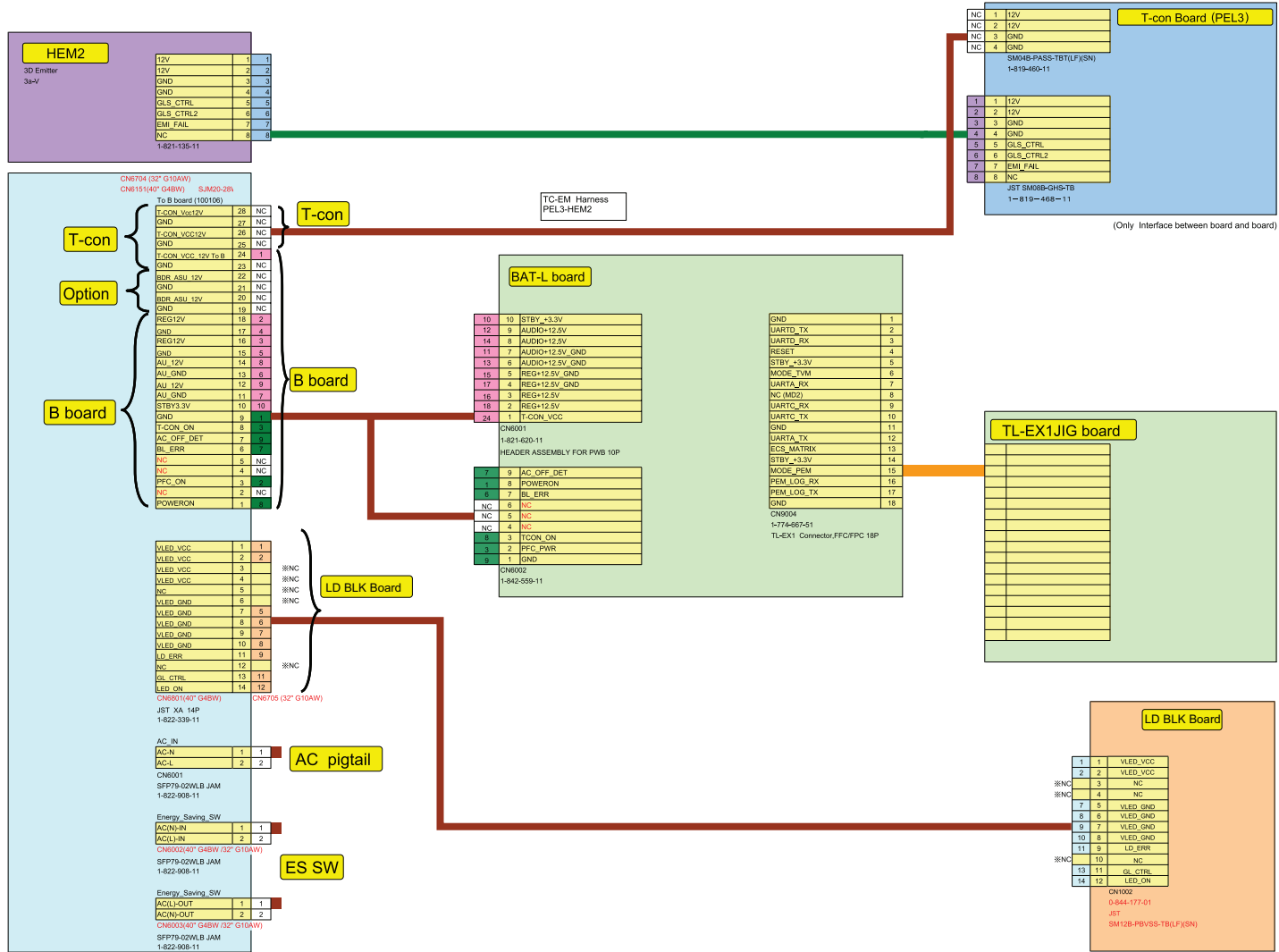
OVERALL BLOCK DIAGRAM

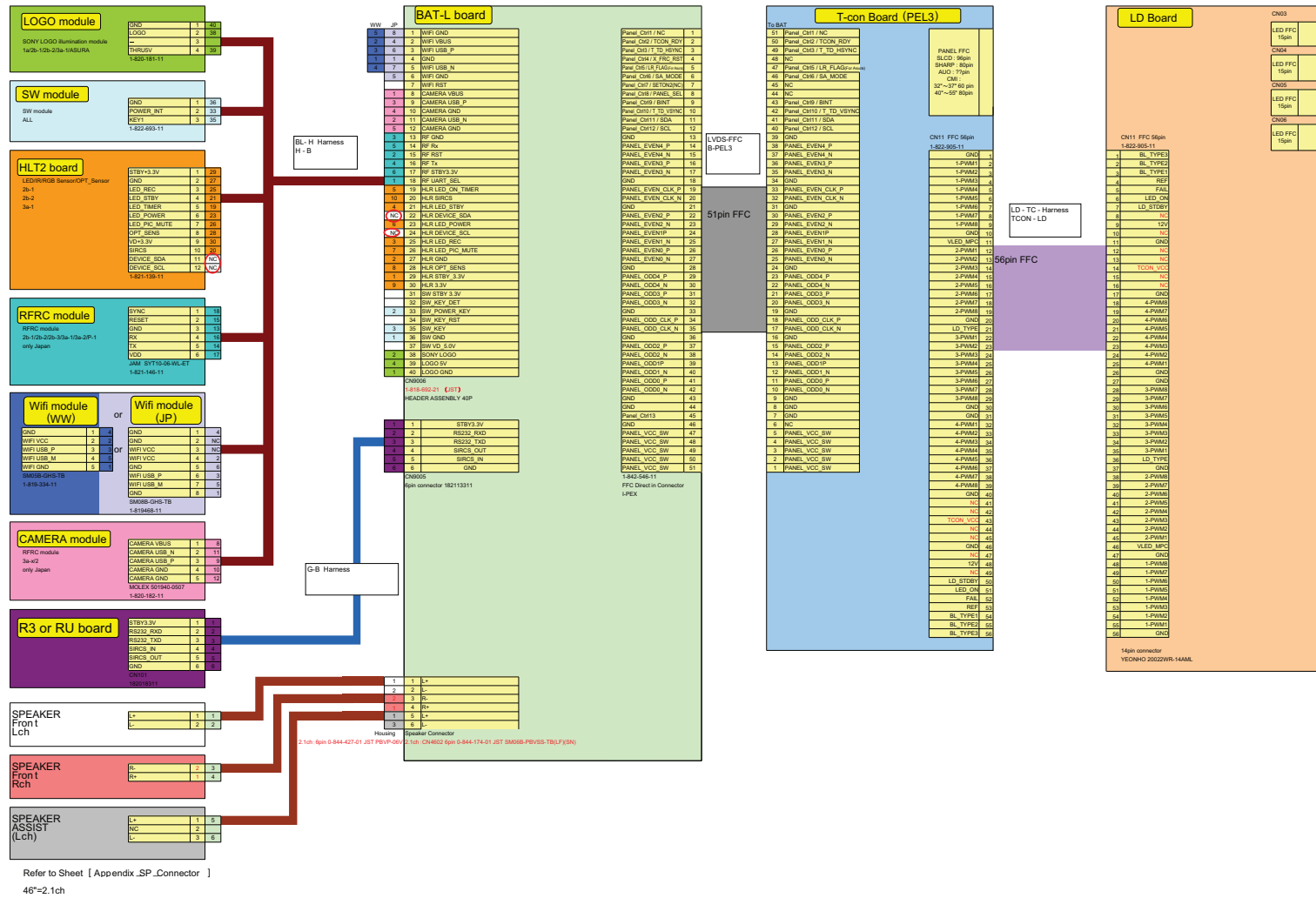


ENGINEERING BLOCK DIAGRAM

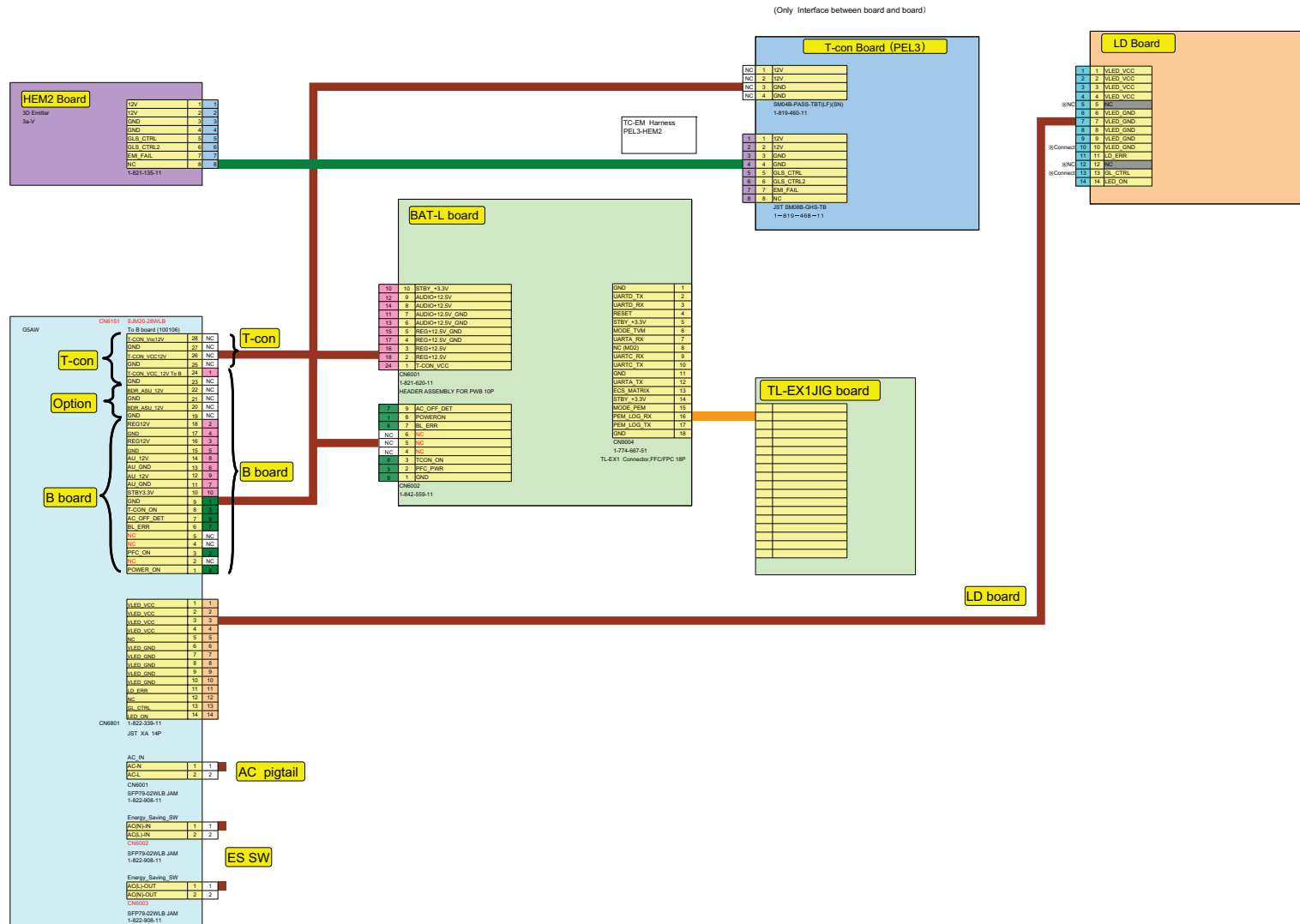
1-4. CONNECTOR DIAGRAMS



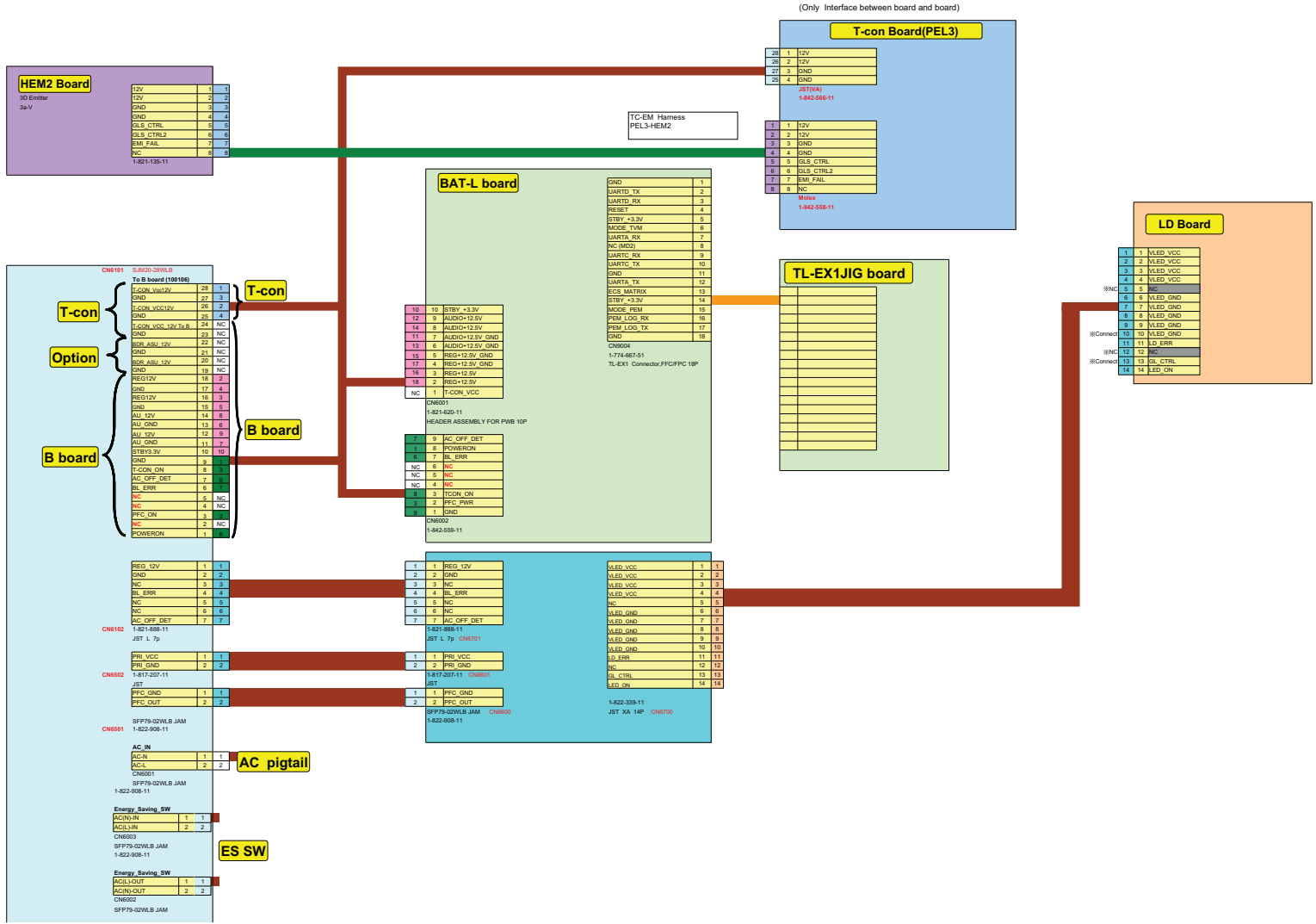




KDL-46NX720 (Page 1 of 2)

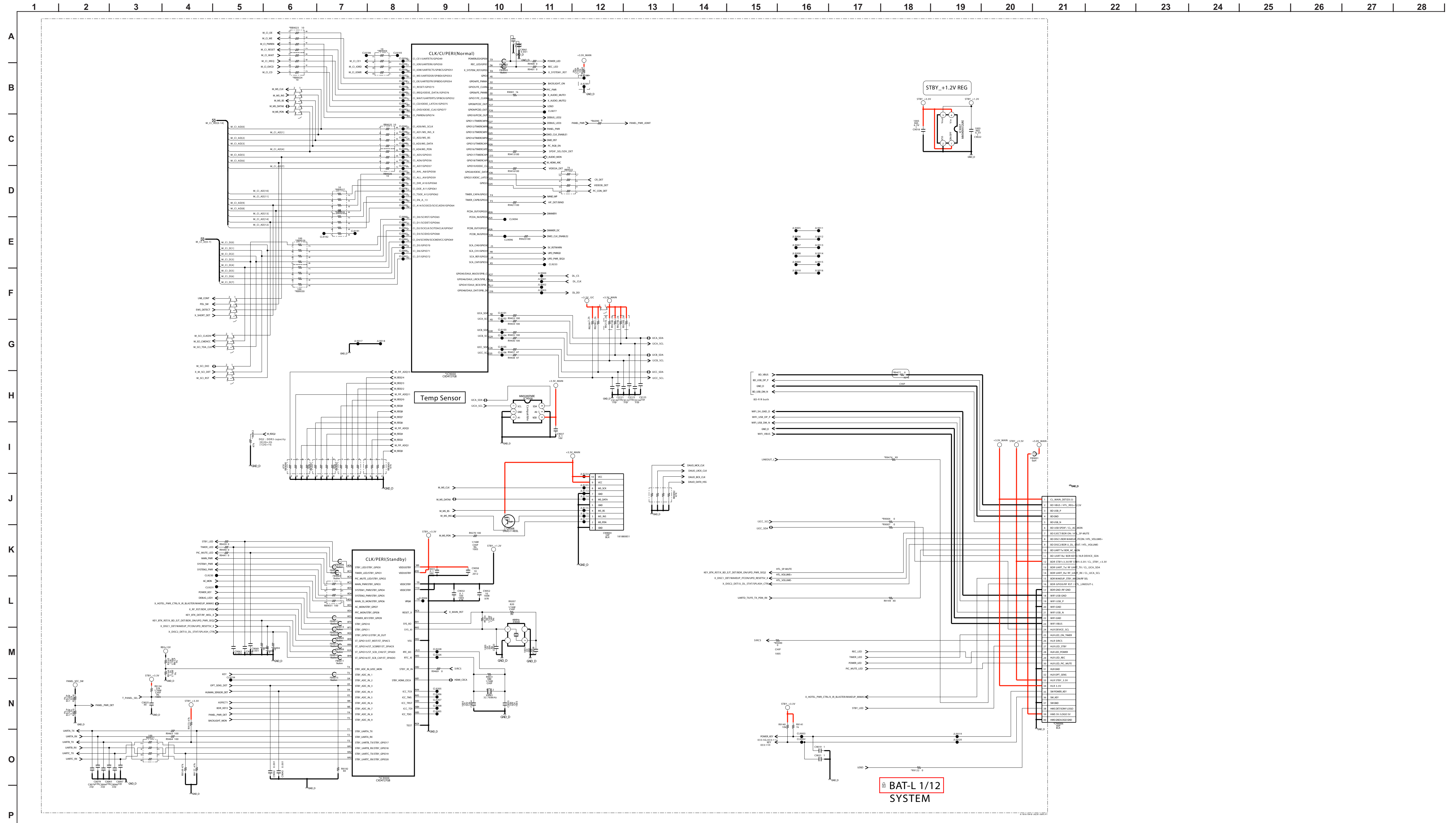


KDL-46NX720 (Page 2 of 2)

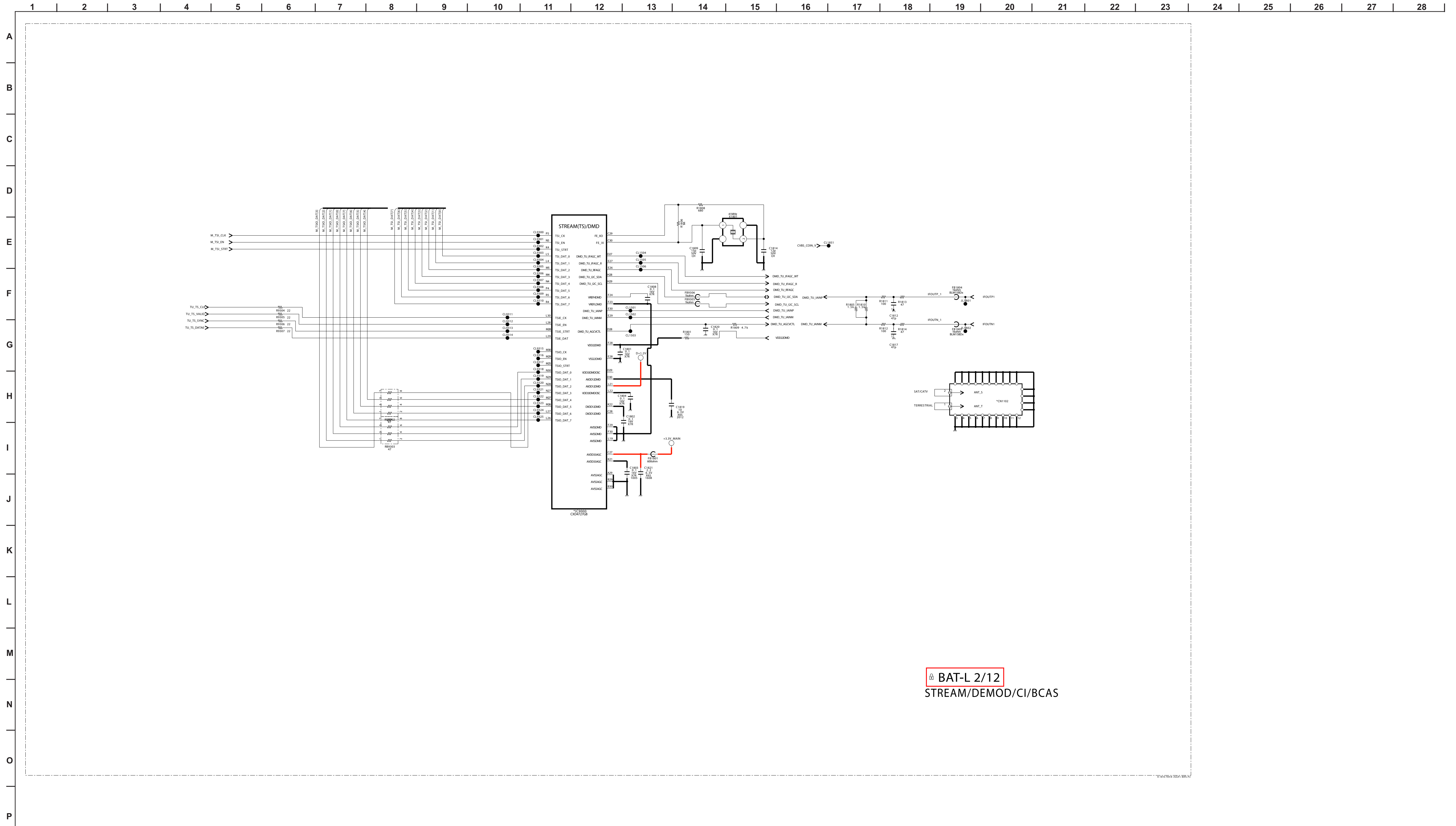


KDL-55NX720/60NX720 (Page 2 of 2)

1-5. SCHEMATICS AND SUPPORTING INFORMATION
BATL BOARD SCHEMATIC DIAGRAM (1 OF 12)

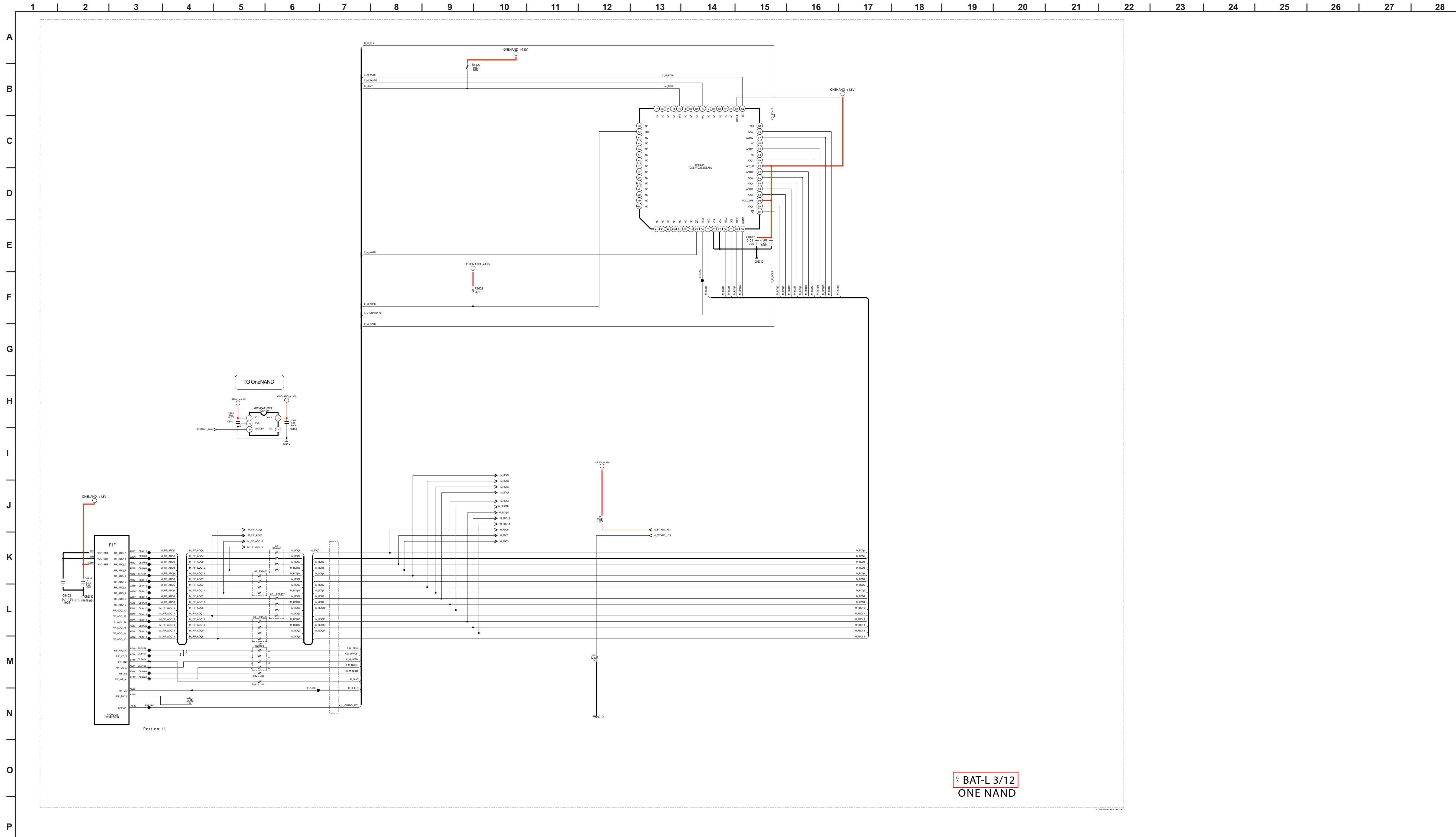


BATL BOARD SCHEMATIC DIAGRAM (2 OF 12)

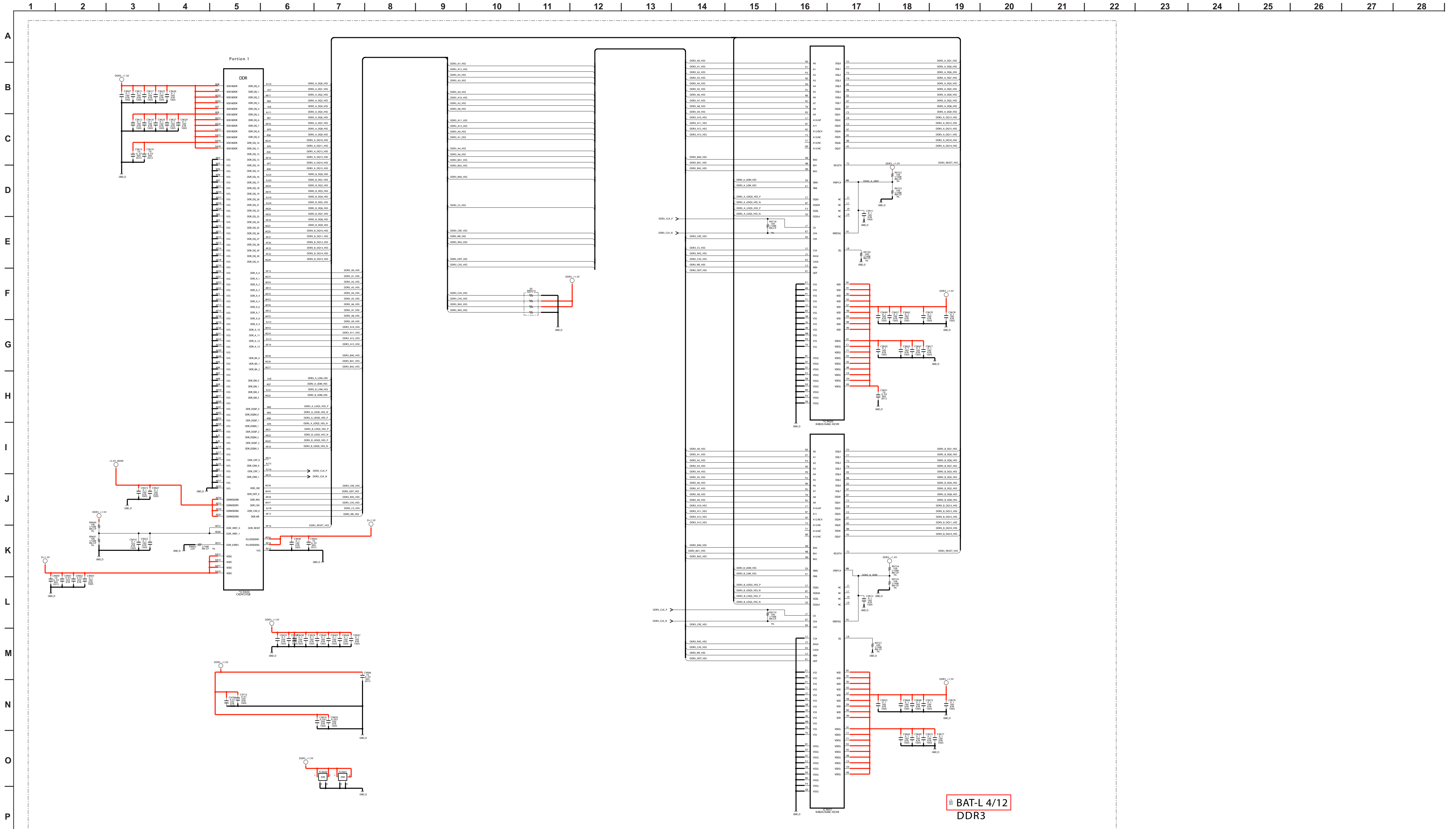


BAT-L 2/12
 STREAM/DEMOD/CI/BCAS

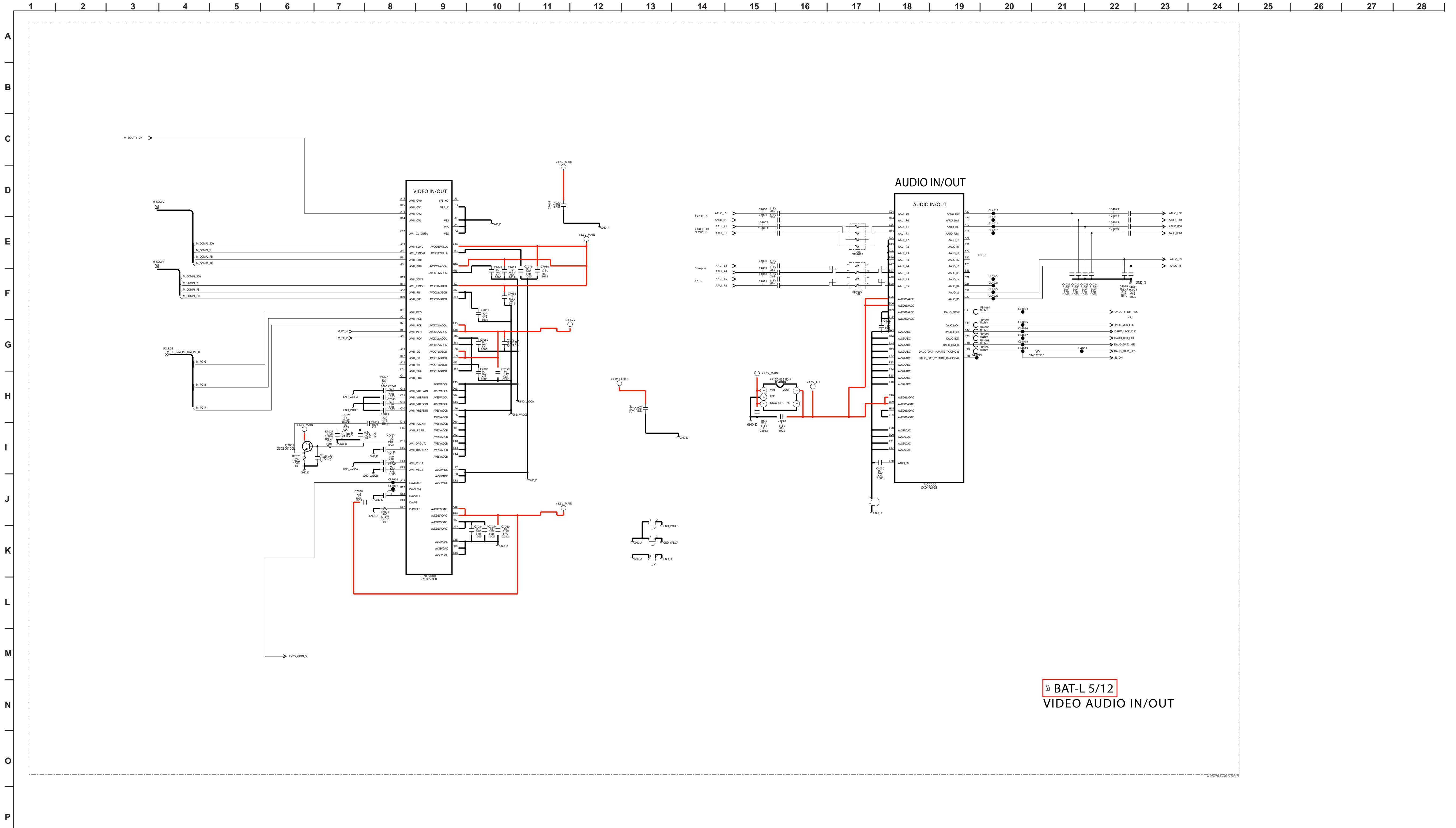
BATL BOARD SCHEMATIC DIAGRAM (3 OF 12)



BATL BOARD SCHEMATIC DIAGRAM (4 OF 12)

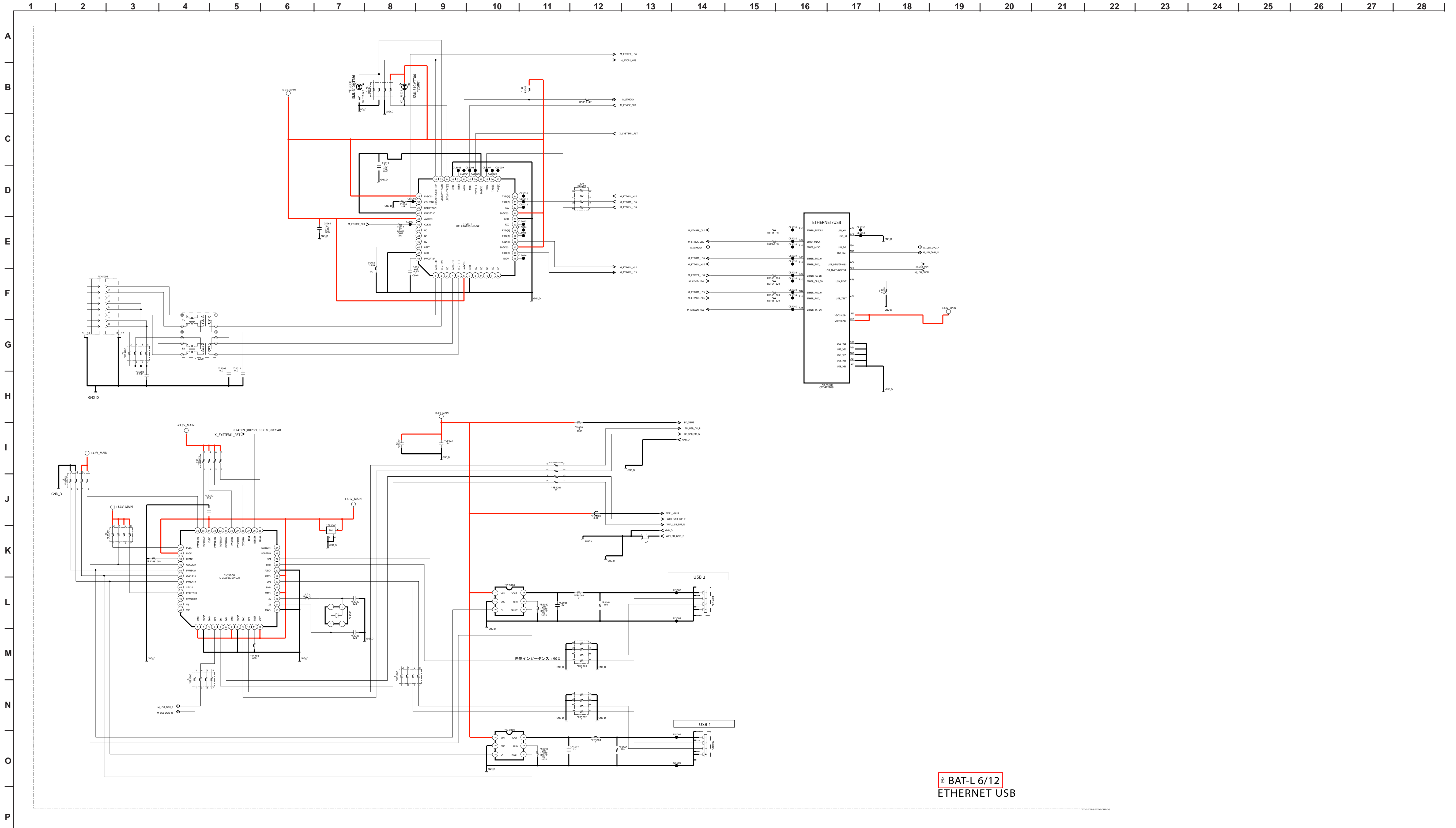


BATL BOARD SCHEMATIC DIAGRAM (5 OF 12)



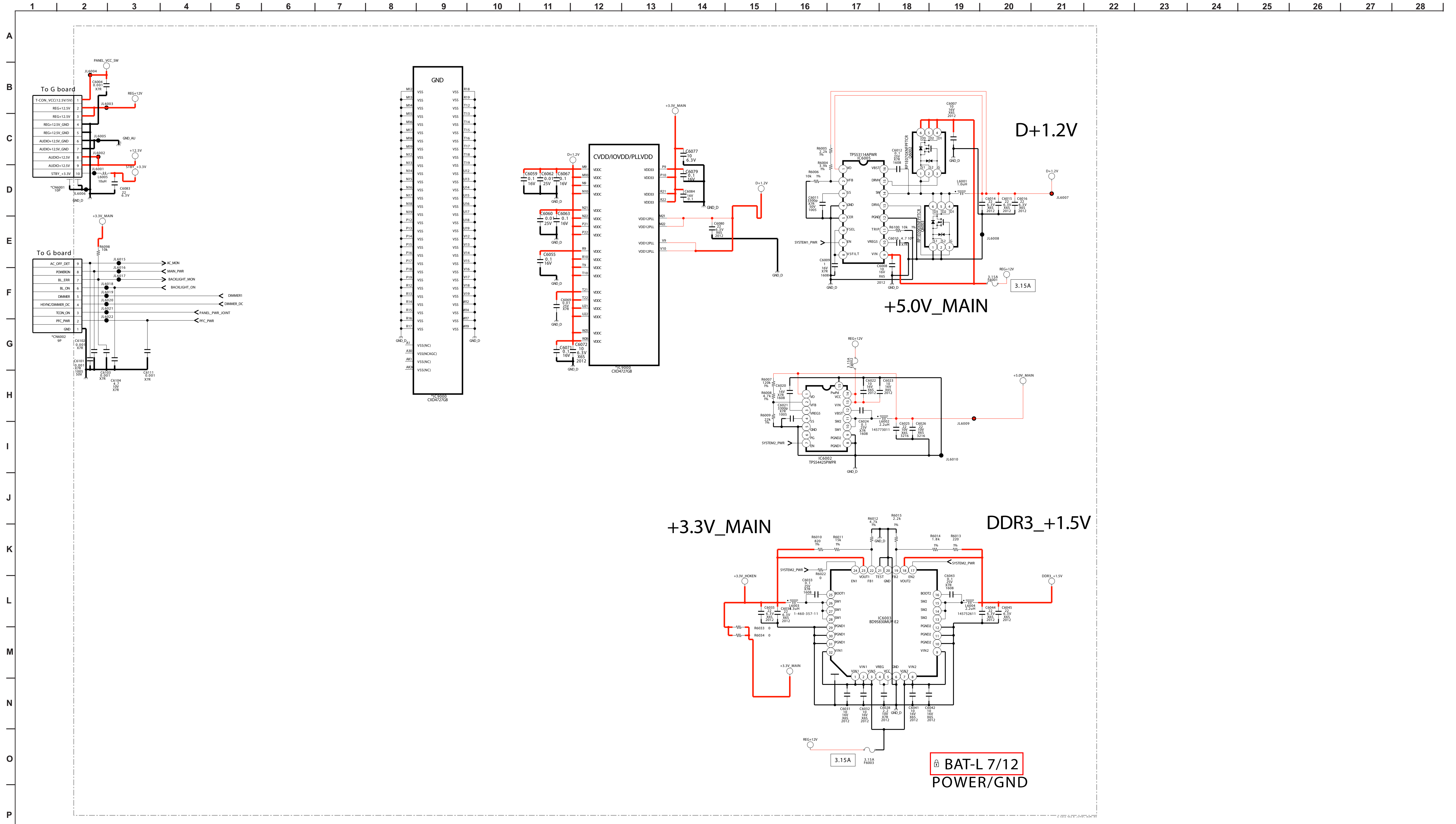
BAT-L 5/12 VIDEO AUDIO IN/OUT

BATL BOARD SCHEMATIC DIAGRAM (6 OF 12)



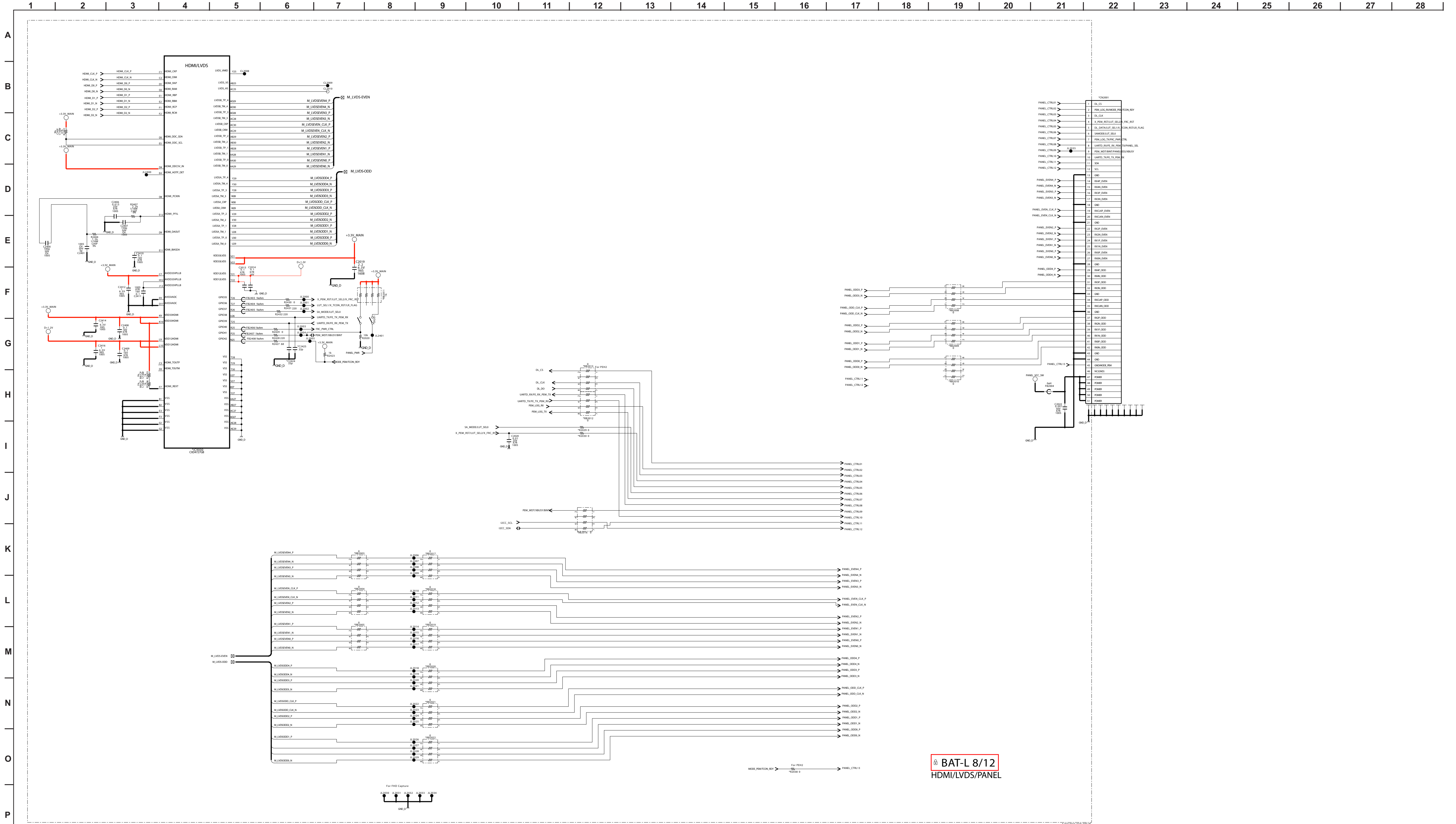
BAT-L 6/12
ETHERNET USB

BATL BOARD SCHEMATIC DIAGRAM (7 OF 12)



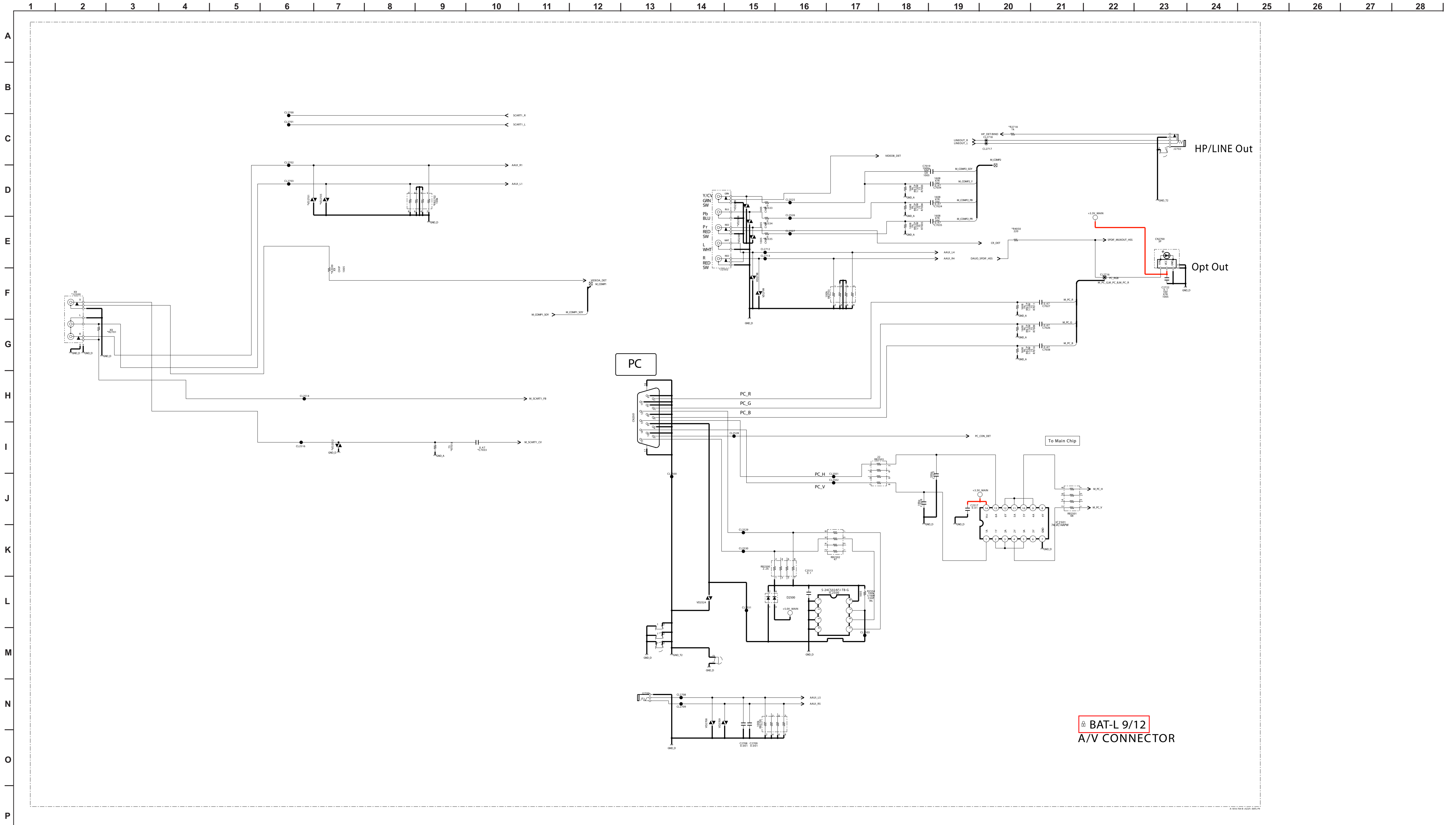
BAT-L 7/12
POWER/GND

BATL BOARD SCHEMATIC DIAGRAM (8 OF 12)



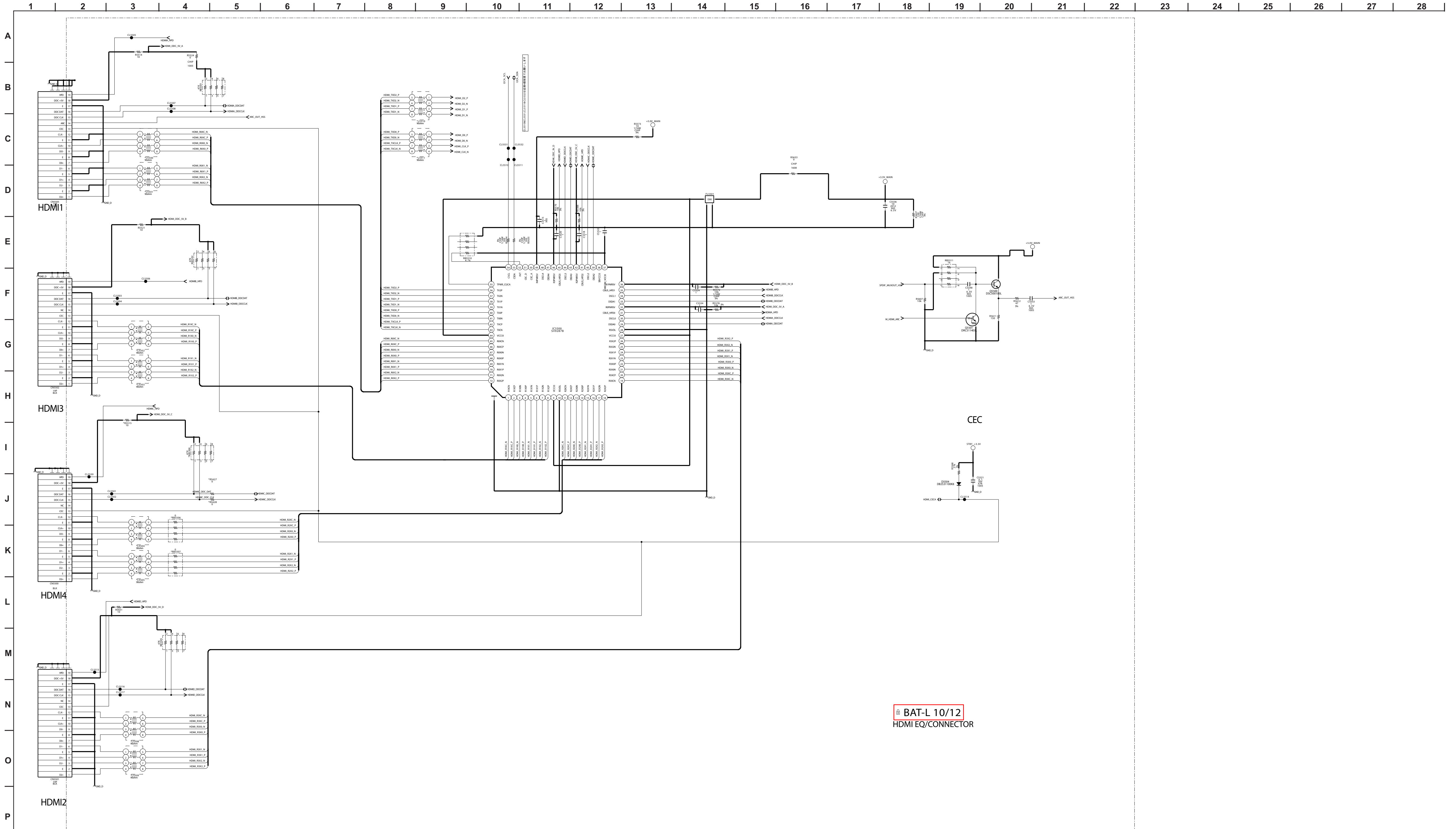
BAT-L 8/12
HDMI/LVDS/PANEL

BATL BOARD SCHEMATIC DIAGRAM (9 OF 12)



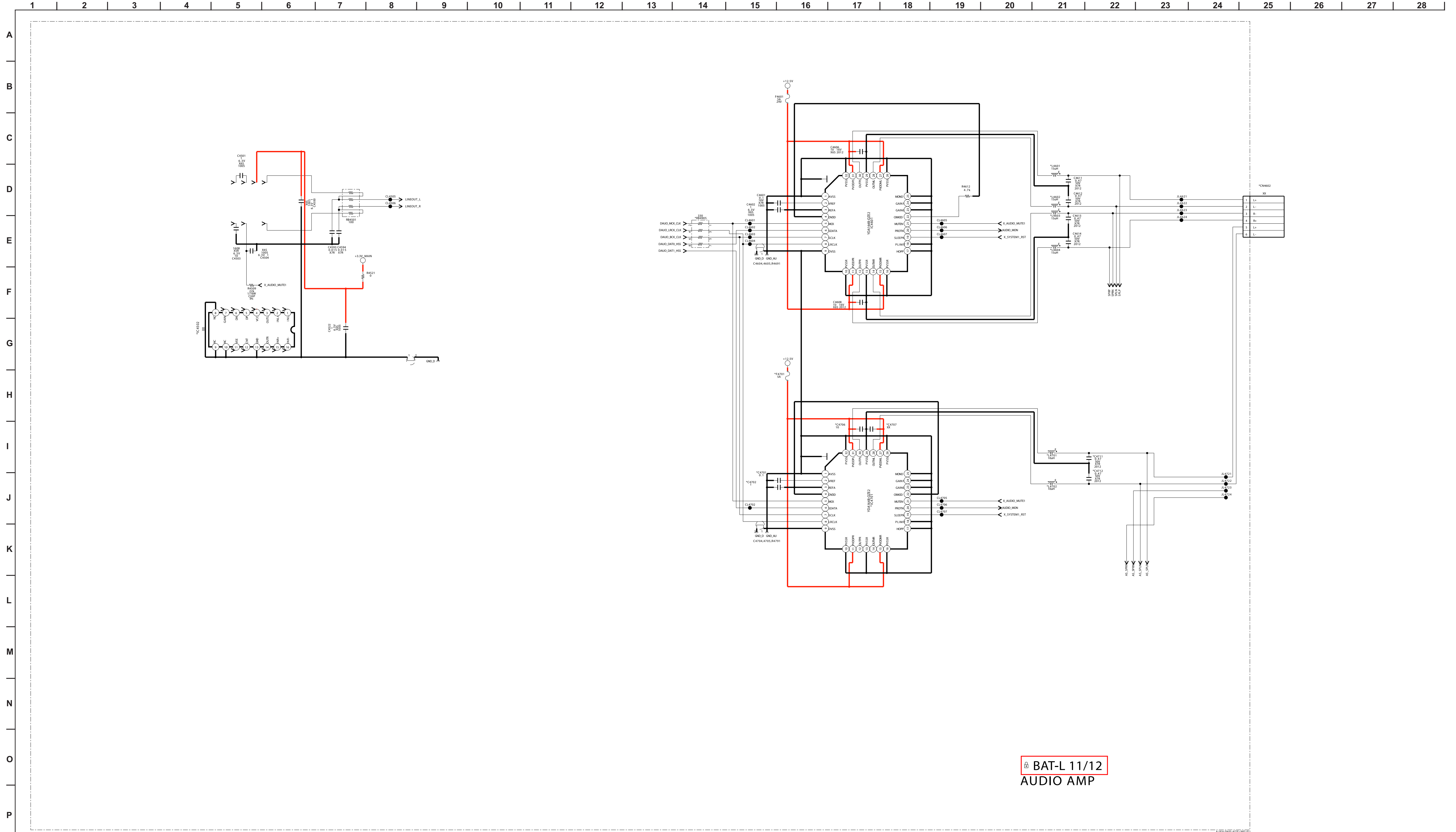
BAT-L 9/12
A/V CONNECTOR

BATL BOARD SCHEMATIC DIAGRAM (10 OF 12)

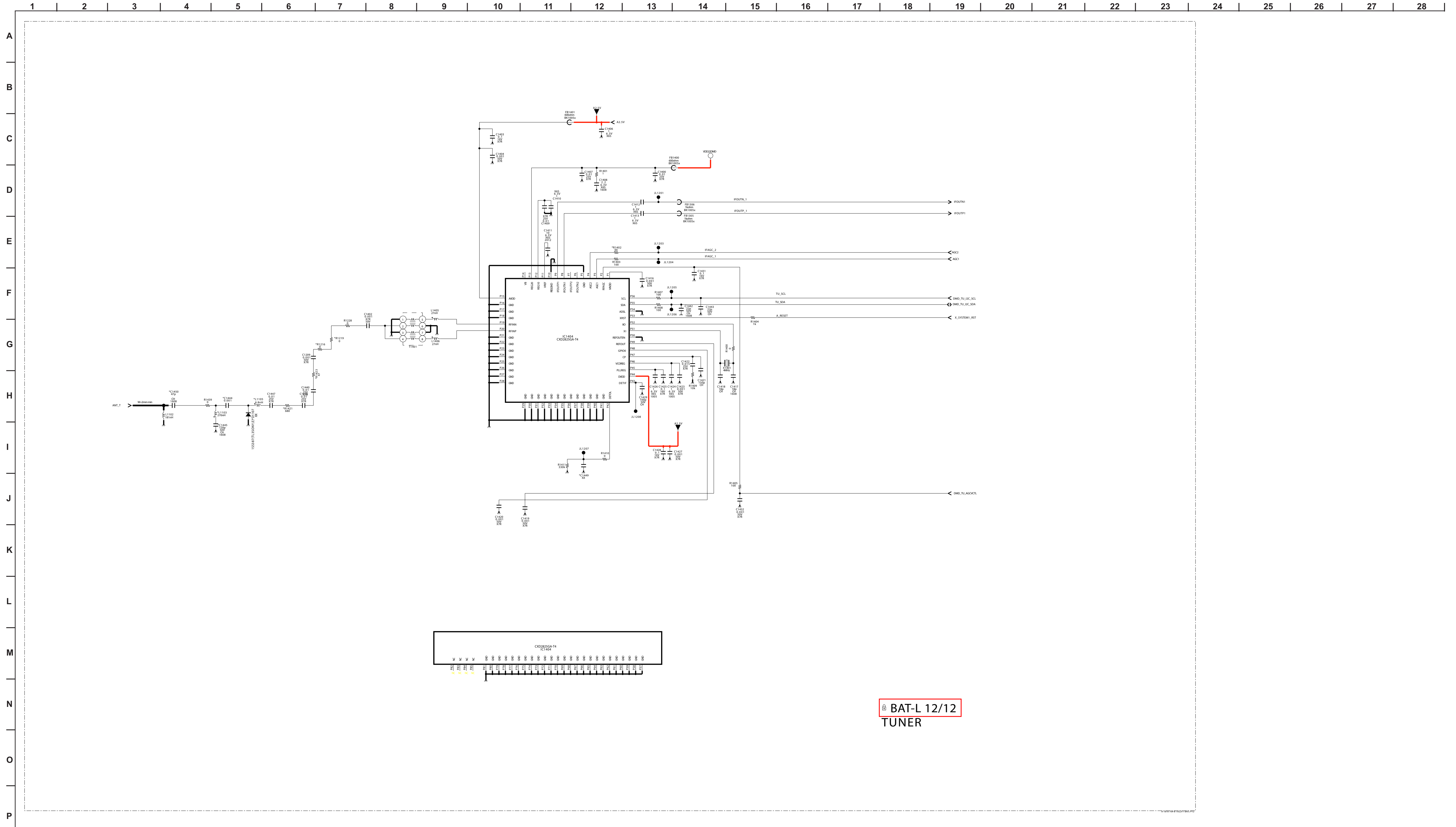


BAT-L 10/12
HDMI EQ/CONNECTOR

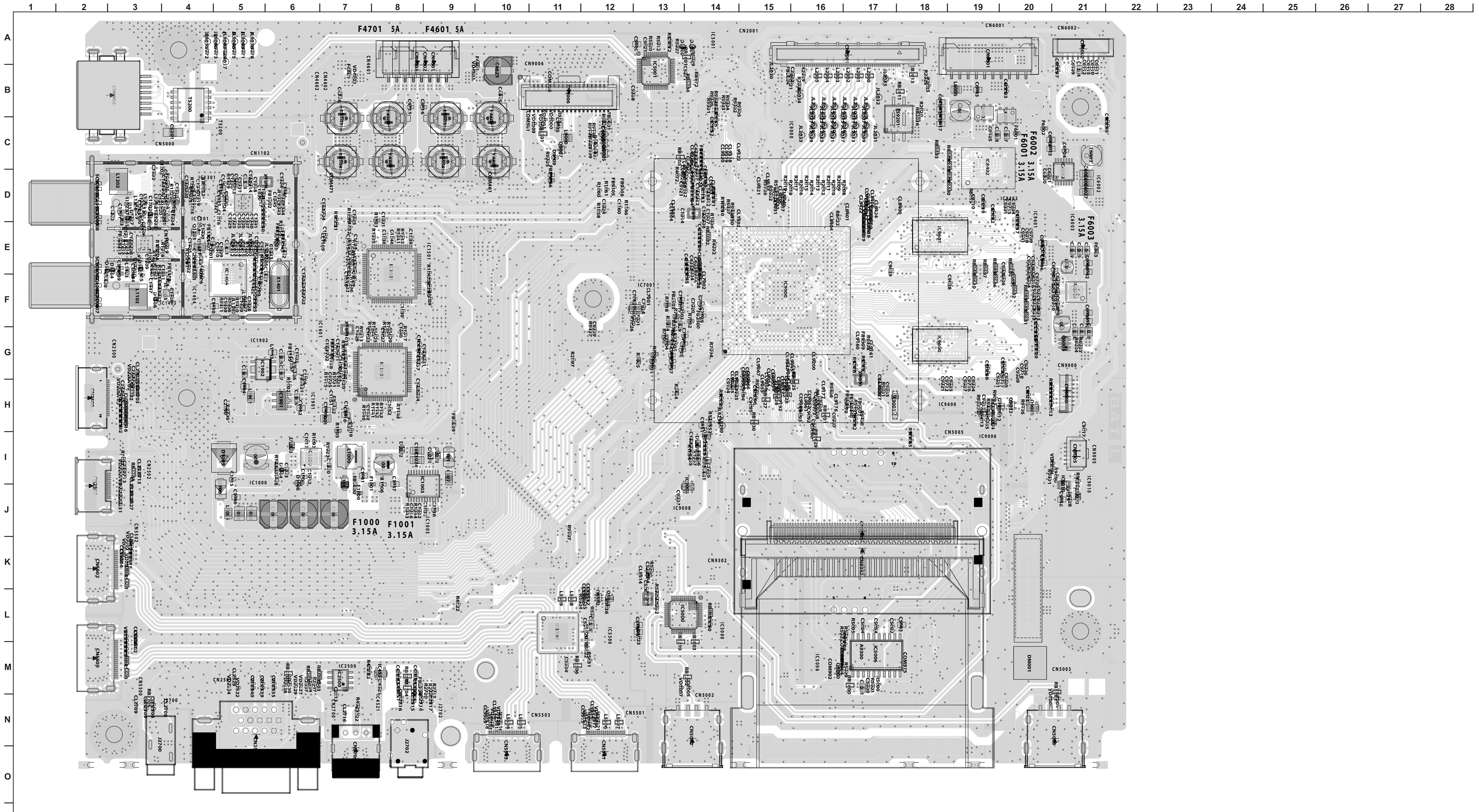
BATL BOARD SCHEMATIC DIAGRAM (11 OF 12)



BATL BOARD SCHEMATIC DIAGRAM (12 OF 12)



BAT-L 12/12
TUNER

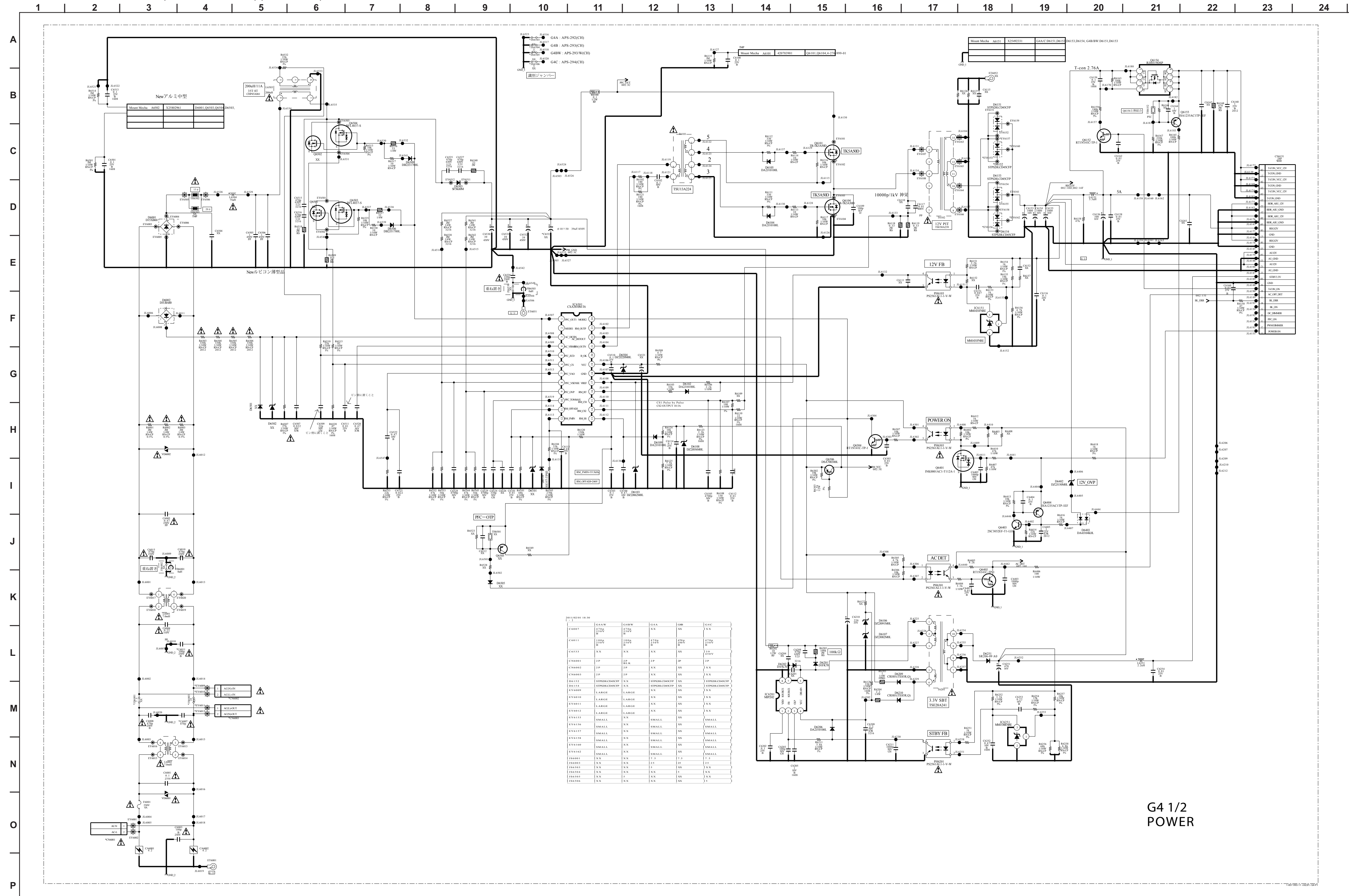




SYSTEM/STREAM/DEMOC/CI/BCAS/ONE NAND/DDR3/VIDEO AUDIO IN/OUT/ETHERNET/USB/POWER/GND/HDMI/LVDS/PANEL/A/V CONNECTOR/HDMI EQ/CONNECTOR/AUDIO AMP/TUNER
CONDUCTOR SIDE

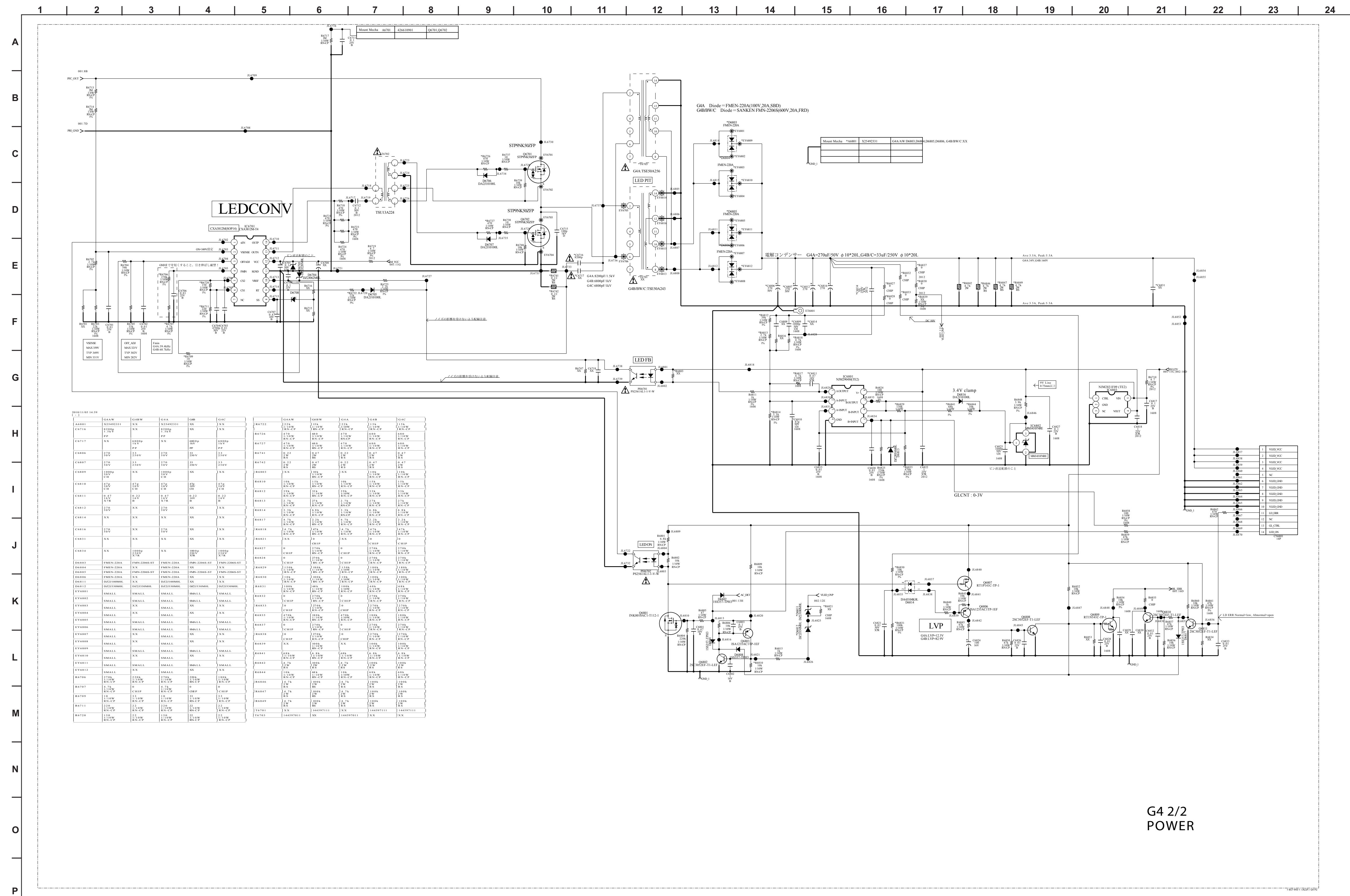


G4 BOARD SCHEMATIC DIAGRAM (KDL-40NX720 ONLY) (PAGE 1 OF 2)



G4 1/2 POWER

G4 BOARD SCHEMATIC DIAGRAM (KDL-40NX720 ONLY) (PAGE 2 OF 2)



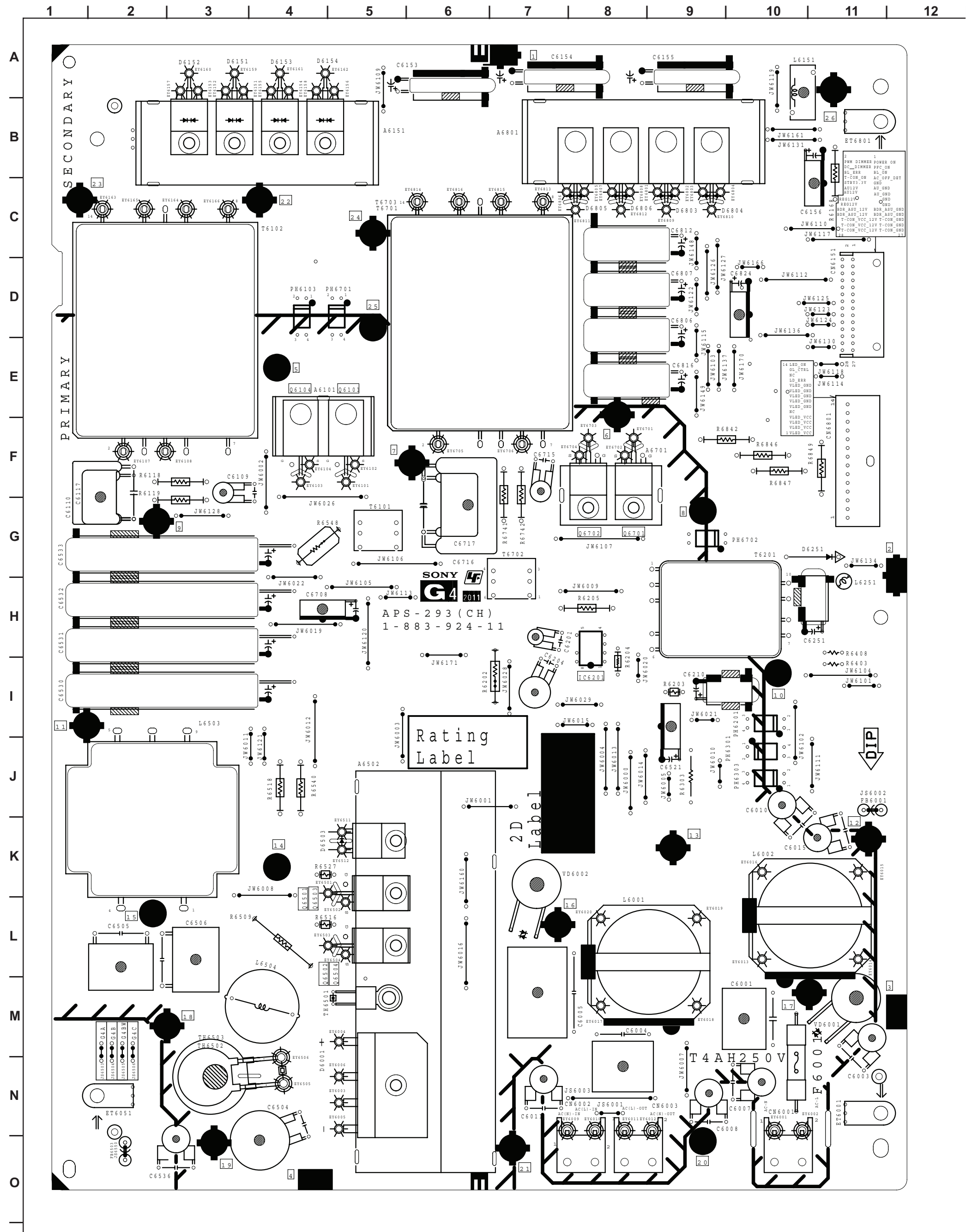
RESISTOR LIST

RES	Q14W	Q18W	Q14A	Q18A	Q14C	Q18C	Q14W	Q18W	Q14A	Q18A	Q14C	Q18C
R6700	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6701	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6702	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6703	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6704	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6705	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6706	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6707	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6708	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6709	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6710	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6711	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6712	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6713	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6714	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6715	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6716	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6717	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6718	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6719	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K
R6720	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K	10K

G4 2/2
POWER

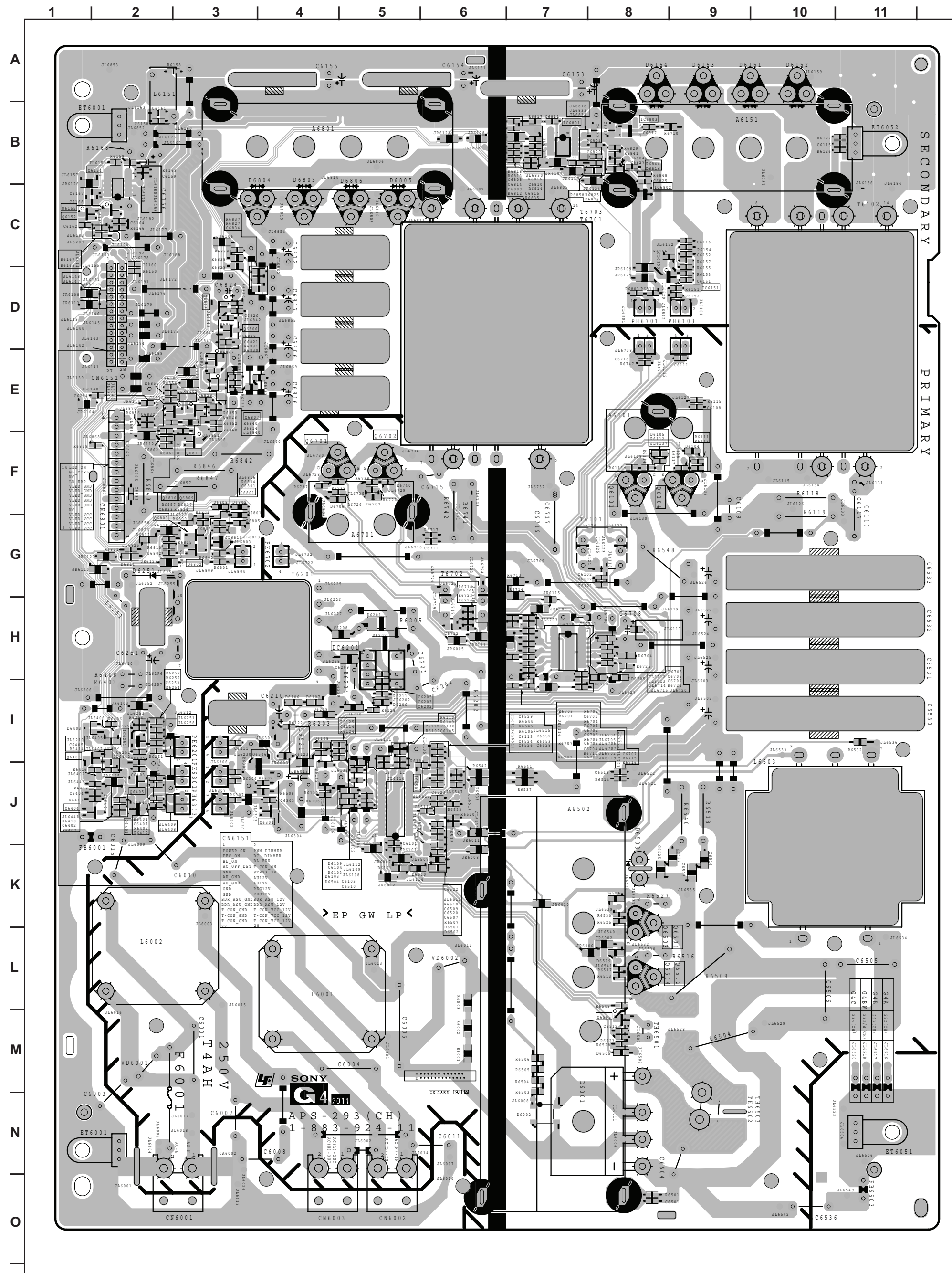
G4

[POWER]
COMPONENT SIDE (KDL-40NX720 ONLY)

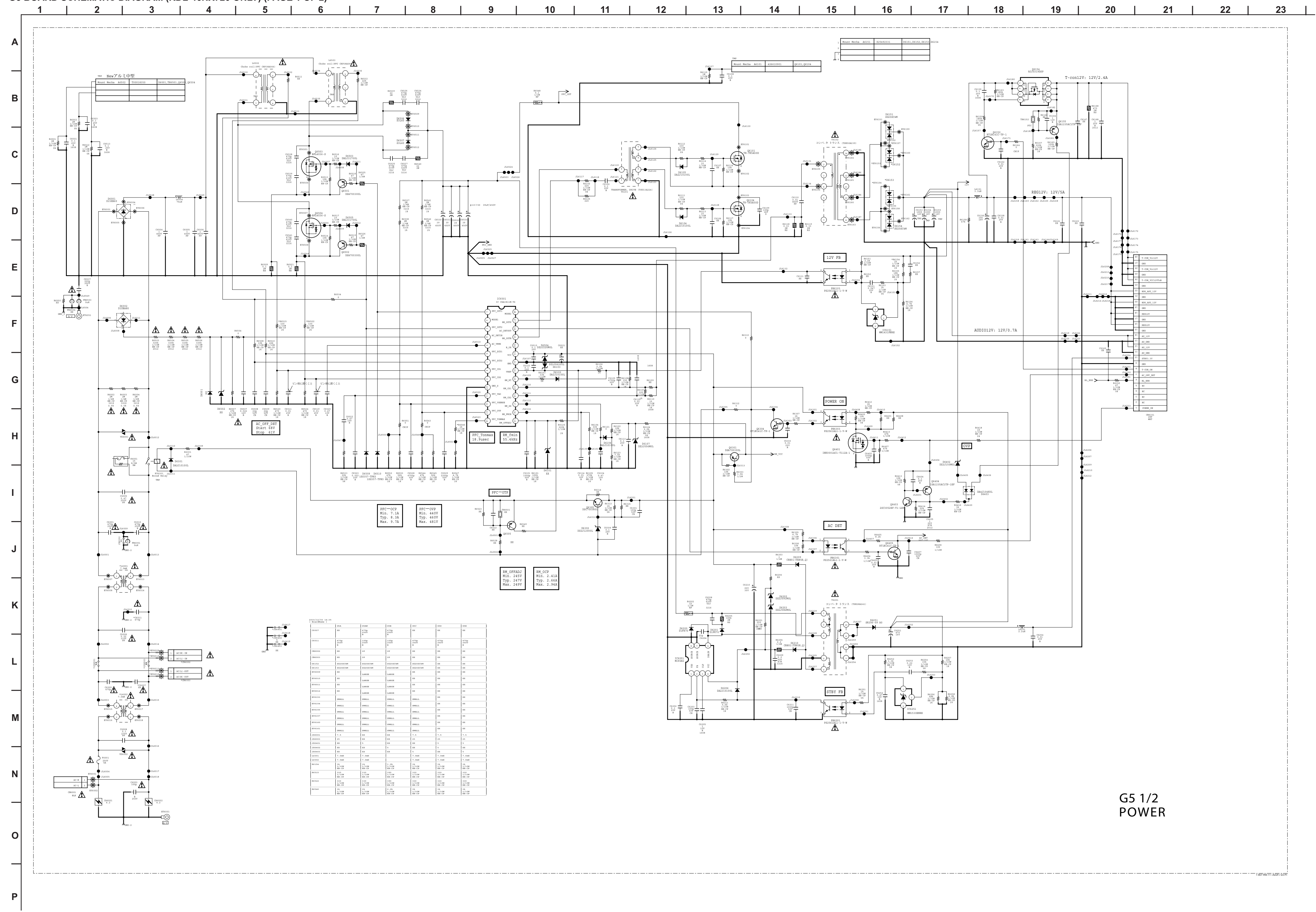


G4

[POWER]
CONDUCTOR SIDE (KDL-40NX720 ONLY)



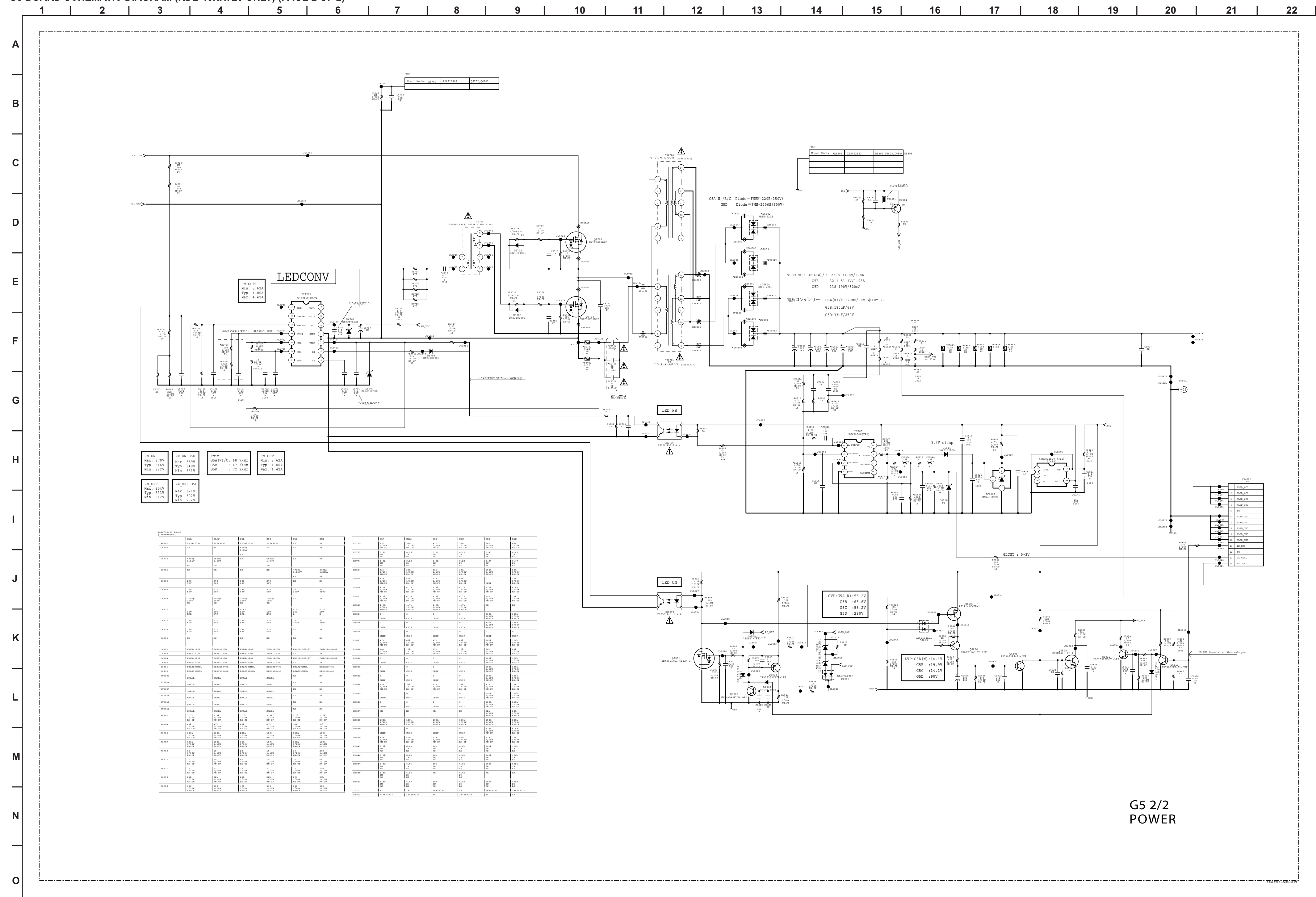
G5 BOARD SCHEMATIC DIAGRAM (KDL-46NX720 ONLY) (PAGE 1 OF 2)



REF	SYM	VAL	UNIT	REF	SYM	VAL	UNIT
R1	R	10K	Ω	R11	R	10K	Ω
R2	R	10K	Ω	R12	R	10K	Ω
R3	R	10K	Ω	R13	R	10K	Ω
R4	R	10K	Ω	R14	R	10K	Ω
R5	R	10K	Ω	R15	R	10K	Ω
R6	R	10K	Ω	R16	R	10K	Ω
R7	R	10K	Ω	R17	R	10K	Ω
R8	R	10K	Ω	R18	R	10K	Ω
R9	R	10K	Ω	R19	R	10K	Ω
R10	R	10K	Ω	R20	R	10K	Ω
R21	R	10K	Ω	R22	R	10K	Ω
R23	R	10K	Ω	R24	R	10K	Ω
R25	R	10K	Ω	R26	R	10K	Ω
R27	R	10K	Ω	R28	R	10K	Ω
R29	R	10K	Ω	R30	R	10K	Ω
R31	R	10K	Ω	R32	R	10K	Ω
R33	R	10K	Ω	R34	R	10K	Ω
R35	R	10K	Ω	R36	R	10K	Ω
R37	R	10K	Ω	R38	R	10K	Ω
R39	R	10K	Ω	R40	R	10K	Ω
R41	R	10K	Ω	R42	R	10K	Ω
R43	R	10K	Ω	R44	R	10K	Ω
R45	R	10K	Ω	R46	R	10K	Ω
R47	R	10K	Ω	R48	R	10K	Ω
R49	R	10K	Ω	R50	R	10K	Ω
R51	R	10K	Ω	R52	R	10K	Ω
R53	R	10K	Ω	R54	R	10K	Ω
R55	R	10K	Ω	R56	R	10K	Ω
R57	R	10K	Ω	R58	R	10K	Ω
R59	R	10K	Ω	R60	R	10K	Ω
R61	R	10K	Ω	R62	R	10K	Ω
R63	R	10K	Ω	R64	R	10K	Ω
R65	R	10K	Ω	R66	R	10K	Ω
R67	R	10K	Ω	R68	R	10K	Ω
R69	R	10K	Ω	R70	R	10K	Ω
R71	R	10K	Ω	R72	R	10K	Ω
R73	R	10K	Ω	R74	R	10K	Ω
R75	R	10K	Ω	R76	R	10K	Ω
R77	R	10K	Ω	R78	R	10K	Ω
R79	R	10K	Ω	R80	R	10K	Ω
R81	R	10K	Ω	R82	R	10K	Ω
R83	R	10K	Ω	R84	R	10K	Ω
R85	R	10K	Ω	R86	R	10K	Ω
R87	R	10K	Ω	R88	R	10K	Ω
R89	R	10K	Ω	R90	R	10K	Ω
R91	R	10K	Ω	R92	R	10K	Ω
R93	R	10K	Ω	R94	R	10K	Ω
R95	R	10K	Ω	R96	R	10K	Ω
R97	R	10K	Ω	R98	R	10K	Ω
R99	R	10K	Ω	R100	R	10K	Ω
R101	R	10K	Ω	R102	R	10K	Ω
R103	R	10K	Ω	R104	R	10K	Ω
R105	R	10K	Ω	R106	R	10K	Ω
R107	R	10K	Ω	R108	R	10K	Ω
R109	R	10K	Ω	R110	R	10K	Ω
R111	R	10K	Ω	R112	R	10K	Ω
R113	R	10K	Ω	R114	R	10K	Ω
R115	R	10K	Ω	R116	R	10K	Ω
R117	R	10K	Ω	R118	R	10K	Ω
R119	R	10K	Ω	R120	R	10K	Ω
R121	R	10K	Ω	R122	R	10K	Ω
R123	R	10K	Ω	R124	R	10K	Ω
R125	R	10K	Ω	R126	R	10K	Ω
R127	R	10K	Ω	R128	R	10K	Ω
R129	R	10K	Ω	R130	R	10K	Ω
R131	R	10K	Ω	R132	R	10K	Ω
R133	R	10K	Ω	R134	R	10K	Ω
R135	R	10K	Ω	R136	R	10K	Ω
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R143	R	10K	Ω	R144	R	10K	Ω
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R147	R	10K	Ω	R148	R	10K	Ω
R149	R	10K	Ω	R150	R	10K	Ω
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R153	R	10K	Ω	R154	R	10K	Ω
R155	R	10K	Ω	R156	R	10K	Ω
R157	R	10K	Ω	R158	R	10K	Ω
R159	R	10K	Ω	R160	R	10K	Ω
R161	R	10K	Ω	R162	R	10K	Ω
R163	R	10K	Ω	R164	R	10K	Ω
R165	R	10K	Ω	R166	R	10K	Ω
R167	R	10K	Ω	R168	R	10K	Ω
R169	R	10K	Ω	R170	R	10K	Ω
R171	R	10K	Ω	R172	R	10K	Ω
R173	R	10K	Ω	R174	R	10K	Ω
R175	R	10K	Ω	R176	R	10K	Ω
R177	R	10K	Ω	R178	R	10K	Ω
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R187	R	10K	Ω	R188	R	10K	Ω
R189	R	10K	Ω	R190	R	10K	Ω
R191	R	10K	Ω	R192	R	10K	Ω
R193	R	10K	Ω	R194	R	10K	Ω
R195	R	10K	Ω	R196	R	10K	Ω
R197	R	10K	Ω	R198	R	10K	Ω
R199	R	10K	Ω	R200	R	10K	Ω

G5 1/2 POWER

G5 BOARD SCHEMATIC DIAGRAM (KDL-46NX720 ONLY) (PAGE 2 OF 2)



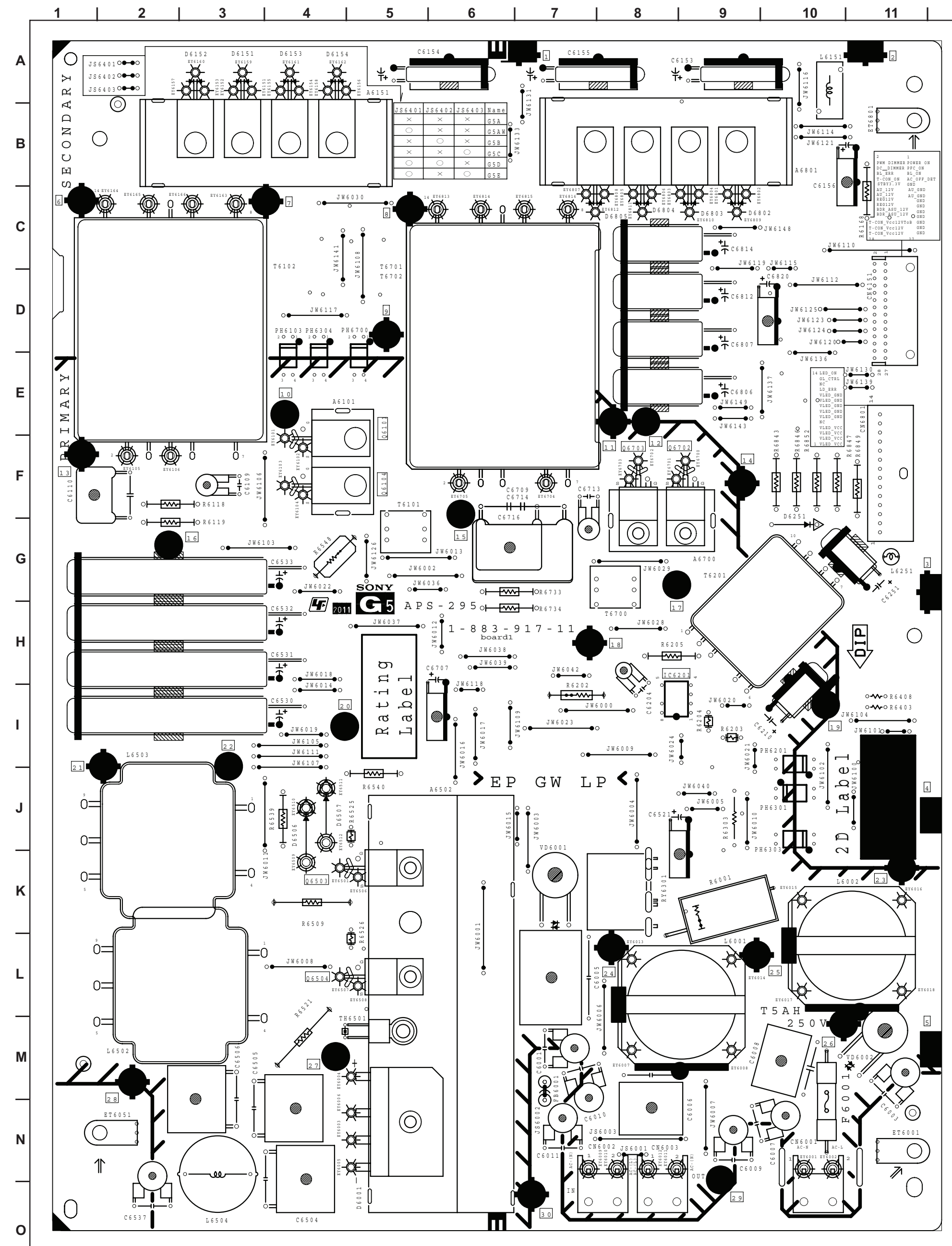
RM_OC1	RM_OC1	RM_OC1	RM_OC1
Max. 1.62A	Max. 1.62A	Max. 1.62A	Max. 1.62A
TYP. 1.45A	TYP. 1.45A	TYP. 1.45A	TYP. 1.45A
Min. 1.15A	Min. 1.15A	Min. 1.15A	Min. 1.15A

Symbol	Value	Unit	Symbol	Value	Unit	Symbol	Value	Unit	Symbol	Value	Unit
RM_OC1	1.62	A	RM_OC1	1.62	A	RM_OC1	1.62	A	RM_OC1	1.62	A
RM_OC1	1.45	A	RM_OC1	1.45	A	RM_OC1	1.45	A	RM_OC1	1.45	A
RM_OC1	1.15	A	RM_OC1	1.15	A	RM_OC1	1.15	A	RM_OC1	1.15	A

G5 2/2
POWER

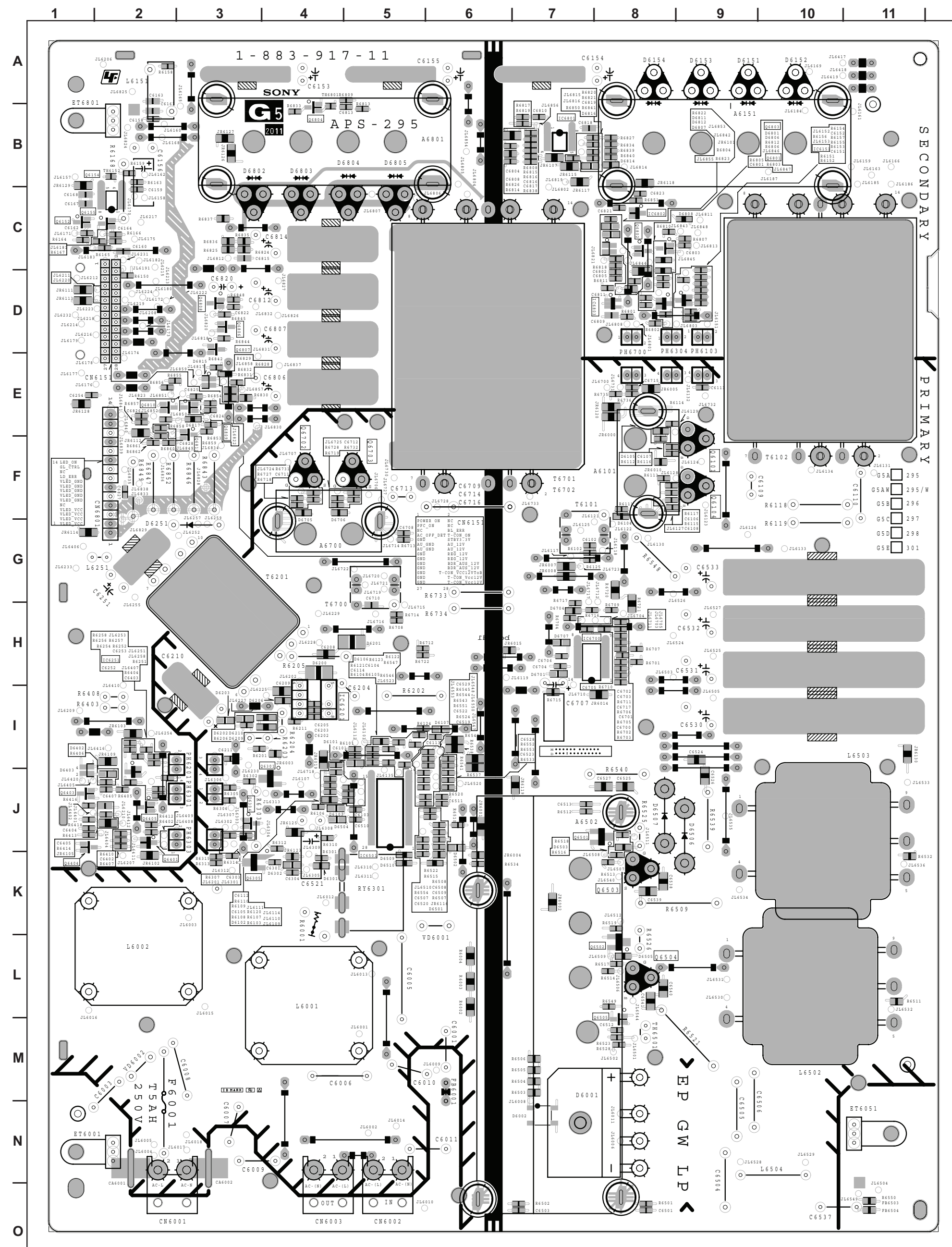
G5

[POWER] COMPONENT SIDE (KDL-46NX720 ONLY)

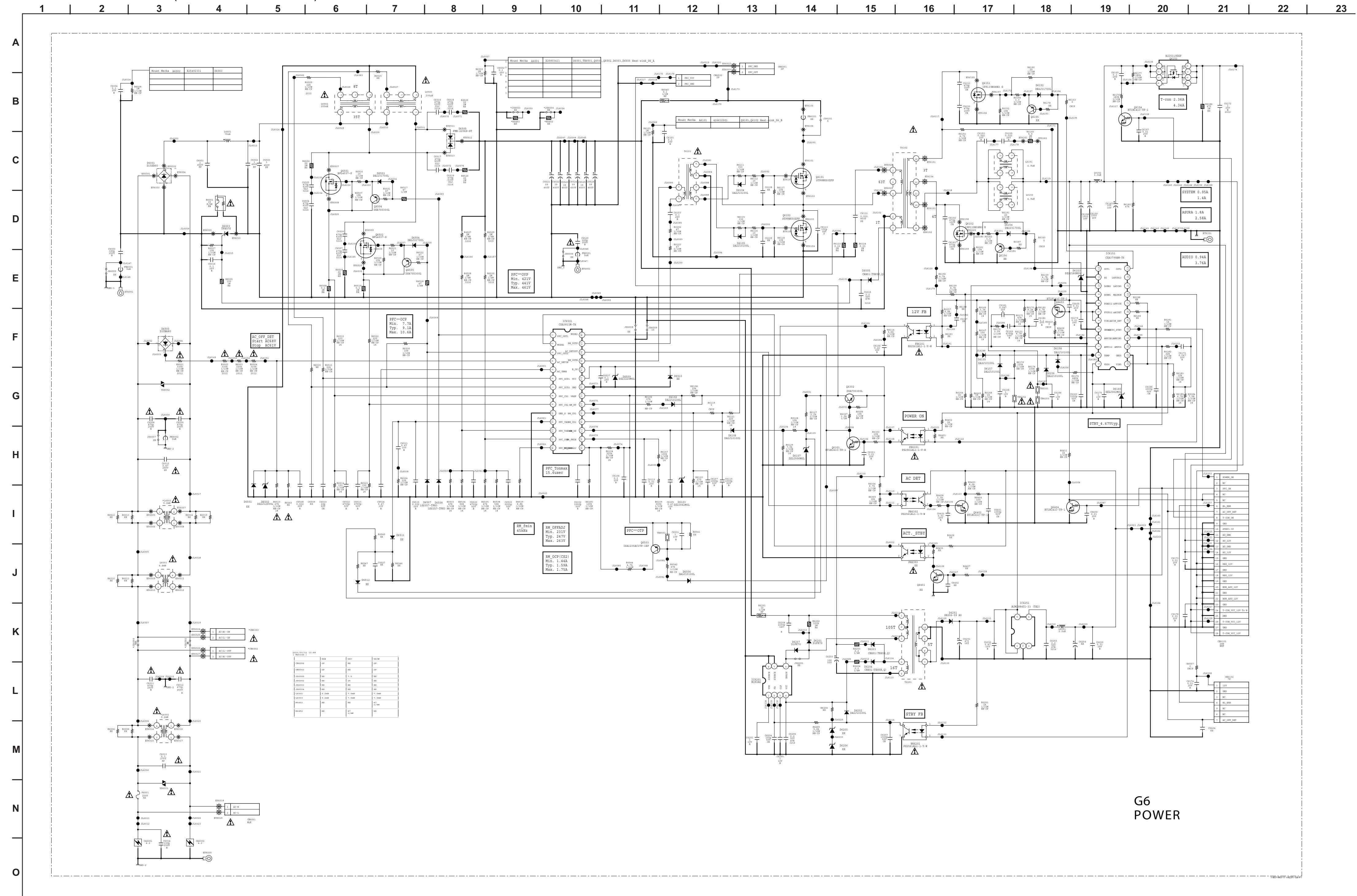


G5

[POWER] CONDUCTOR SIDE (KDL-46NX720 ONLY)



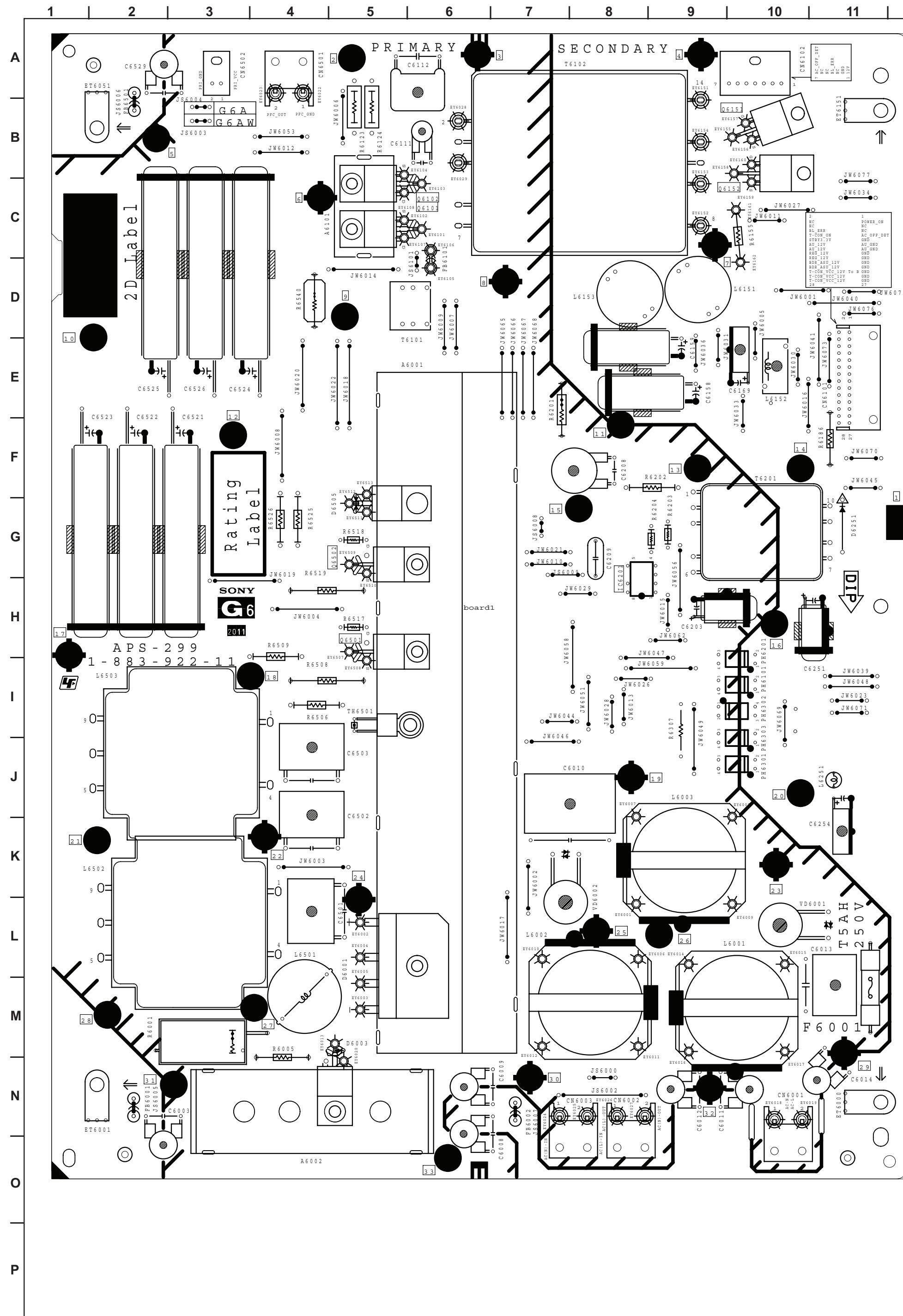
G6 BOARD SCHEMATIC DIAGRAM (KDL-55NX720/60NX720 ONLY)



G6 POWER

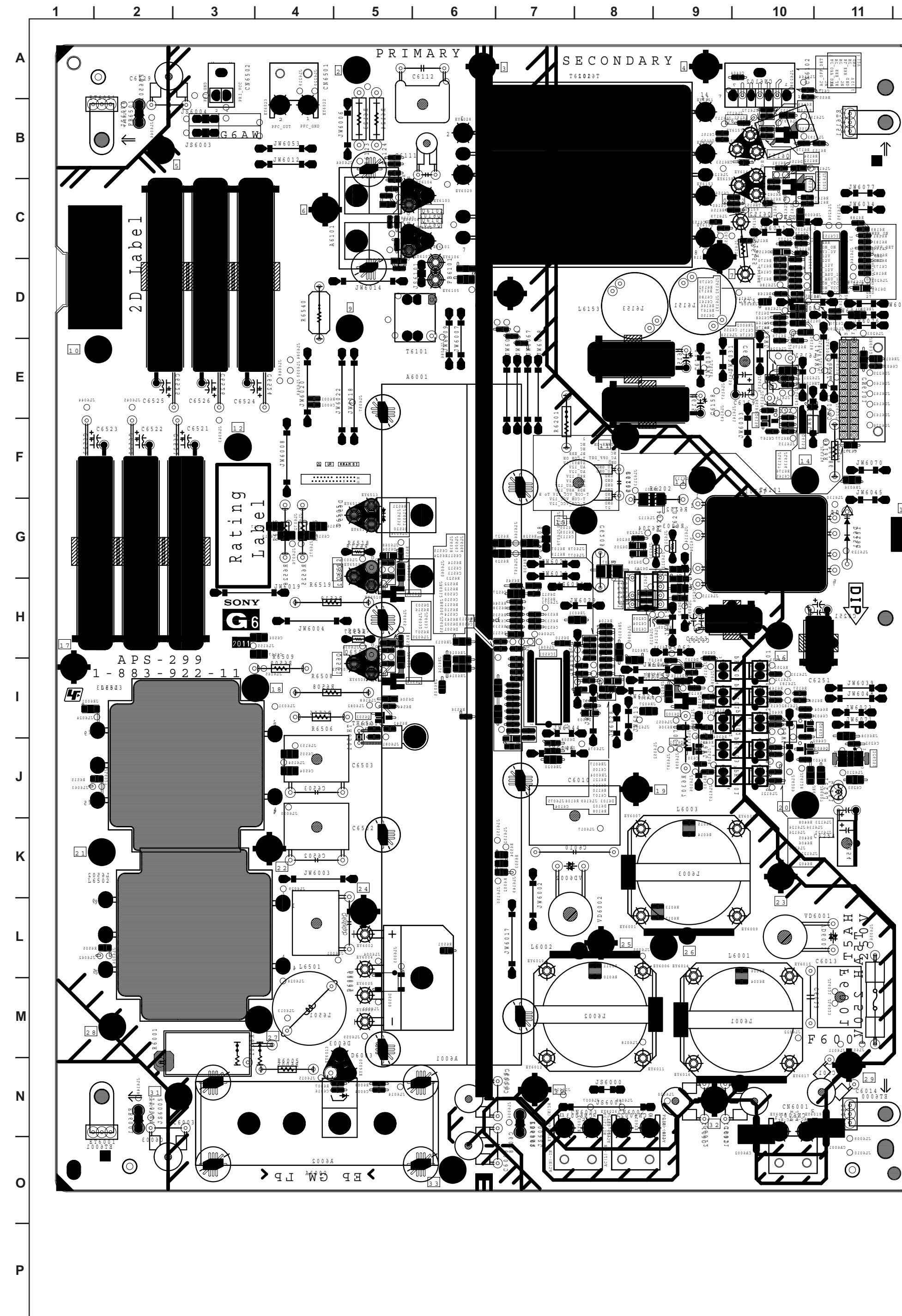
G6

[POWER]
COMPONENT SIDE (KDL-55NX720/60NX720 ONLY)

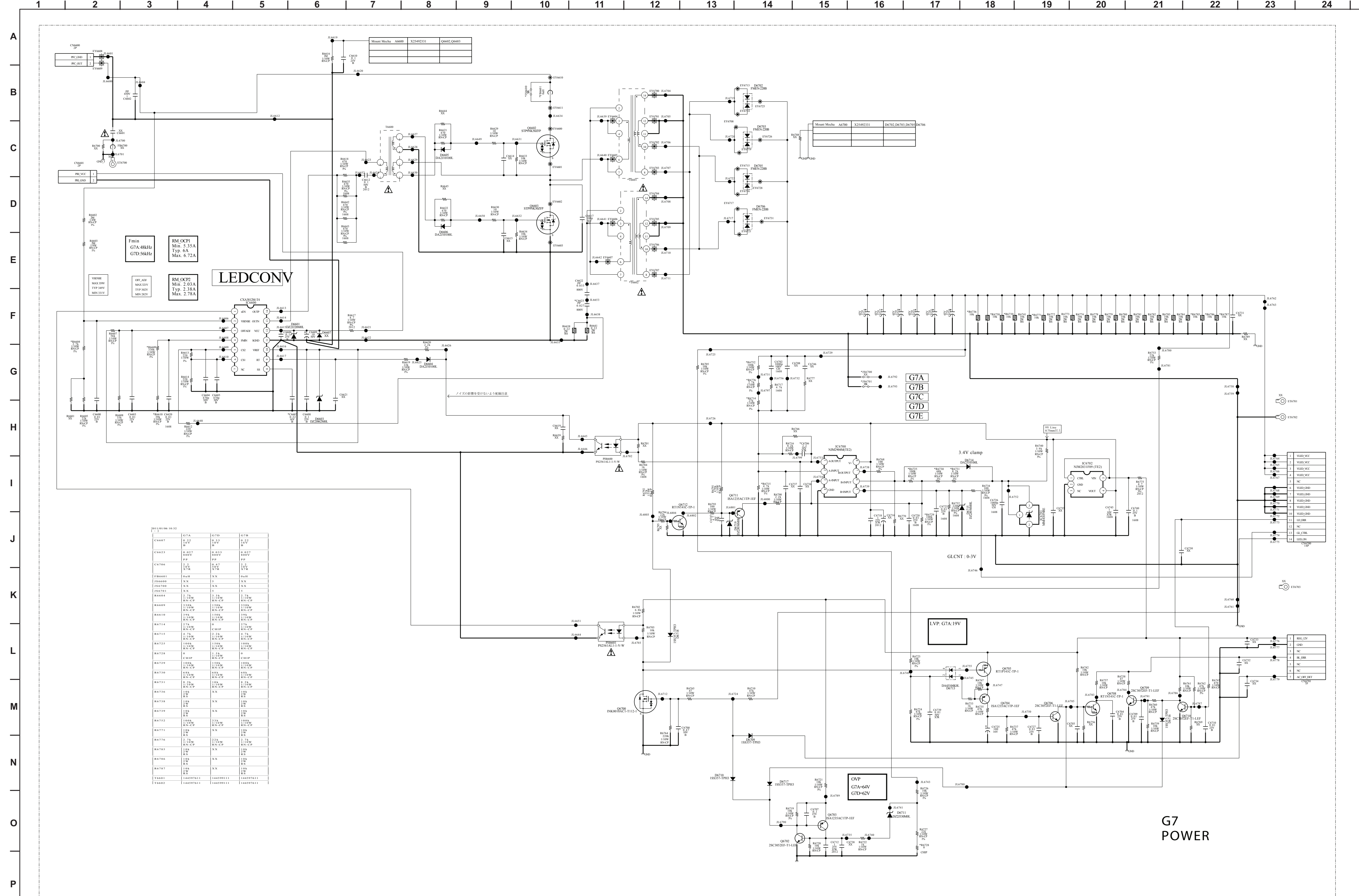


G6

[POWER]
CONDUCTOR SIDE (KDL-55NX720/60NX720 ONLY)



G7 BOARD SCHEMATIC DIAGRAM (KDL-55NX720/60NX720 ONLY)

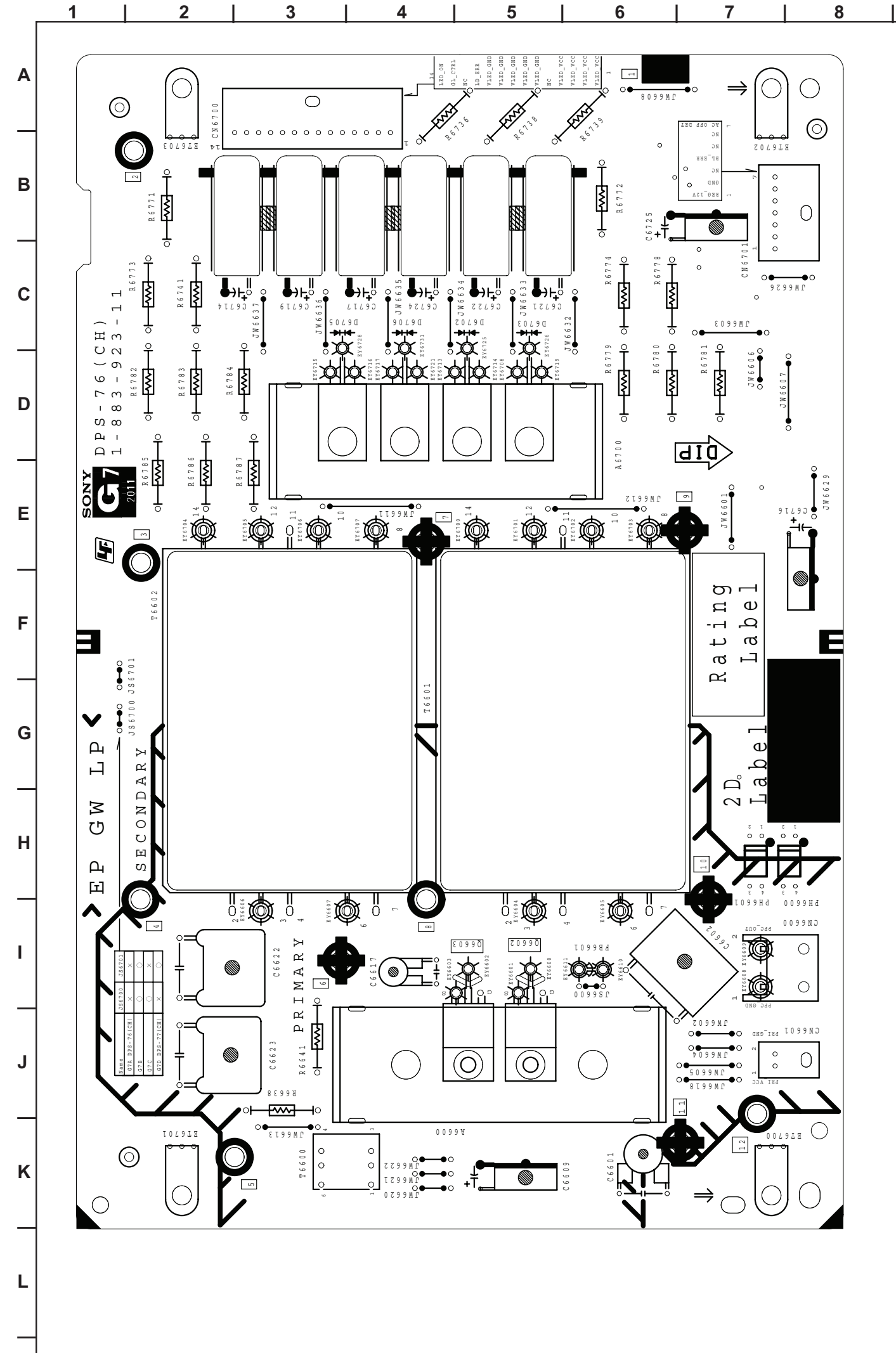


部品名	品番	仕様	数量
LED	LED-01	5mmφ	1000
LED	LED-02	5mmφ	1000
LED	LED-03	5mmφ	1000
LED	LED-04	5mmφ	1000
LED	LED-05	5mmφ	1000
LED	LED-06	5mmφ	1000
LED	LED-07	5mmφ	1000
LED	LED-08	5mmφ	1000
LED	LED-09	5mmφ	1000
LED	LED-10	5mmφ	1000
LED	LED-11	5mmφ	1000
LED	LED-12	5mmφ	1000
LED	LED-13	5mmφ	1000
LED	LED-14	5mmφ	1000
LED	LED-15	5mmφ	1000
LED	LED-16	5mmφ	1000
LED	LED-17	5mmφ	1000
LED	LED-18	5mmφ	1000
LED	LED-19	5mmφ	1000
LED	LED-20	5mmφ	1000
LED	LED-21	5mmφ	1000
LED	LED-22	5mmφ	1000
LED	LED-23	5mmφ	1000
LED	LED-24	5mmφ	1000
LED	LED-25	5mmφ	1000
LED	LED-26	5mmφ	1000
LED	LED-27	5mmφ	1000
LED	LED-28	5mmφ	1000
LED	LED-29	5mmφ	1000
LED	LED-30	5mmφ	1000
LED	LED-31	5mmφ	1000
LED	LED-32	5mmφ	1000
LED	LED-33	5mmφ	1000
LED	LED-34	5mmφ	1000
LED	LED-35	5mmφ	1000
LED	LED-36	5mmφ	1000
LED	LED-37	5mmφ	1000
LED	LED-38	5mmφ	1000
LED	LED-39	5mmφ	1000
LED	LED-40	5mmφ	1000
LED	LED-41	5mmφ	1000
LED	LED-42	5mmφ	1000
LED	LED-43	5mmφ	1000
LED	LED-44	5mmφ	1000
LED	LED-45	5mmφ	1000
LED	LED-46	5mmφ	1000
LED	LED-47	5mmφ	1000
LED	LED-48	5mmφ	1000
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LED	LED-50	5mmφ	1000
LED	LED-51	5mmφ	1000
LED	LED-52	5mmφ	1000
LED	LED-53	5mmφ	1000
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LED	LED-55	5mmφ	1000
LED	LED-56	5mmφ	1000
LED	LED-57	5mmφ	1000
LED	LED-58	5mmφ	1000
LED	LED-59	5mmφ	1000
LED	LED-60	5mmφ	1000
LED	LED-61	5mmφ	1000
LED	LED-62	5mmφ	1000
LED	LED-63	5mmφ	1000
LED	LED-64	5mmφ	1000
LED	LED-65	5mmφ	1000
LED	LED-66	5mmφ	1000
LED	LED-67	5mmφ	1000
LED	LED-68	5mmφ	1000
LED	LED-69	5mmφ	1000
LED	LED-70	5mmφ	1000
LED	LED-71	5mmφ	1000
LED	LED-72	5mmφ	1000
LED	LED-73	5mmφ	1000
LED	LED-74	5mmφ	1000
LED	LED-75	5mmφ	1000
LED	LED-76	5mmφ	1000
LED	LED-77	5mmφ	1000
LED	LED-78	5mmφ	1000
LED	LED-79	5mmφ	1000
LED	LED-80	5mmφ	1000
LED	LED-81	5mmφ	1000
LED	LED-82	5mmφ	1000
LED	LED-83	5mmφ	1000
LED	LED-84	5mmφ	1000
LED	LED-85	5mmφ	1000
LED	LED-86	5mmφ	1000
LED	LED-87	5mmφ	1000
LED	LED-88	5mmφ	1000
LED	LED-89	5mmφ	1000
LED	LED-90	5mmφ	1000
LED	LED-91	5mmφ	1000
LED	LED-92	5mmφ	1000
LED	LED-93	5mmφ	1000
LED	LED-94	5mmφ	1000
LED	LED-95	5mmφ	1000
LED	LED-96	5mmφ	1000
LED	LED-97	5mmφ	1000
LED	LED-98	5mmφ	1000
LED	LED-99	5mmφ	1000
LED	LED-100	5mmφ	1000

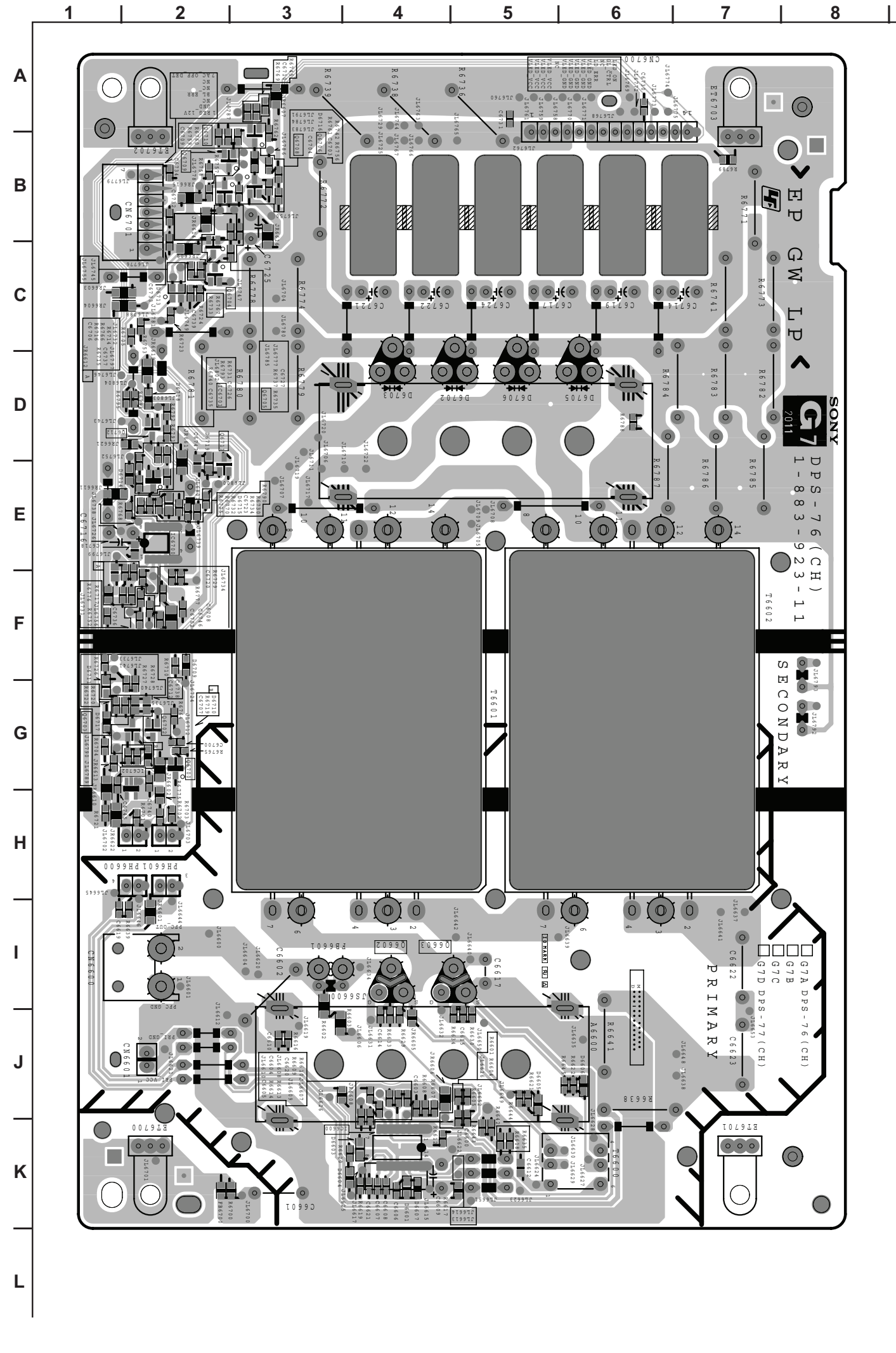
G7 POWER



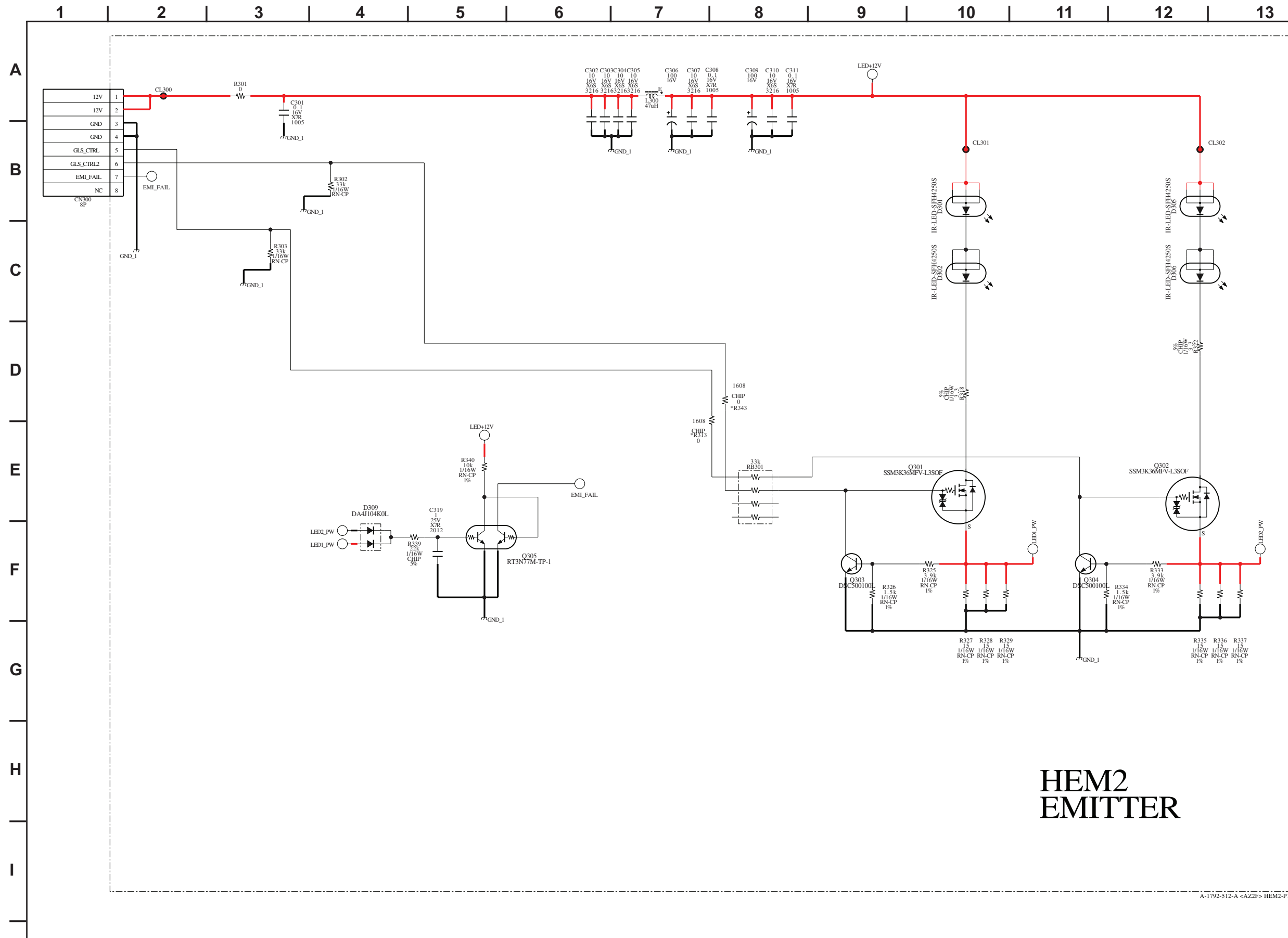
[POWER] COMPONENT SIDE (KDL-55NX720/60NX720 ONLY)



[POWER] CONDUCTOR SIDE (KDL-55NX720/60NX720 ONLY)



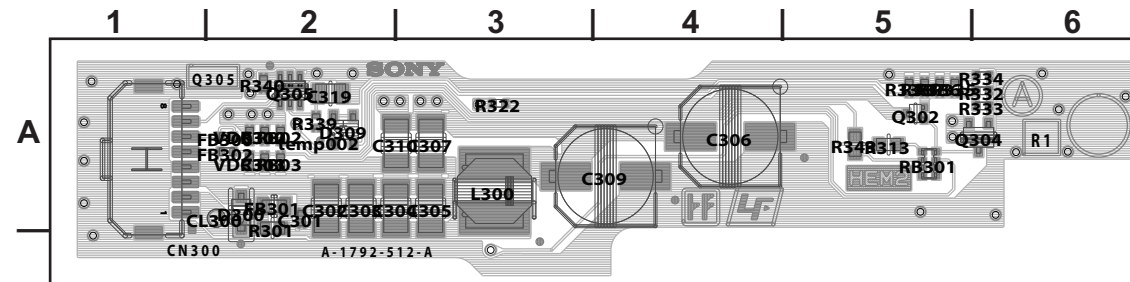
HEM2 BOARD SCHEMATIC DIAGRAM



A-1792-512-A <GAZ2FS> HEM2-P1

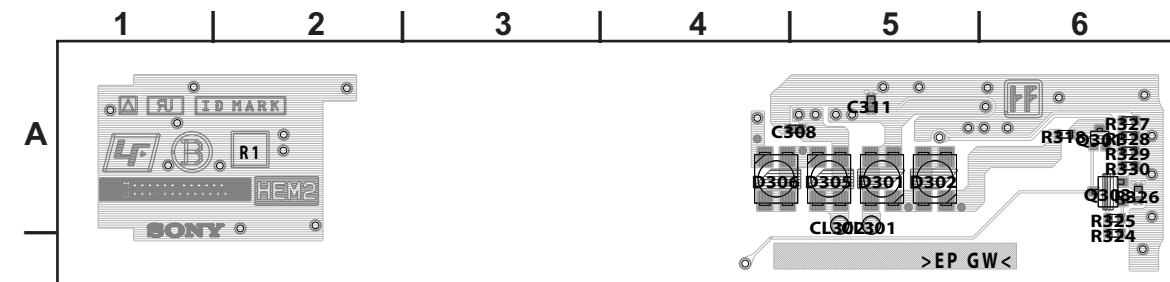
HEM2

[EMITTER]
COMPONENT SIDE

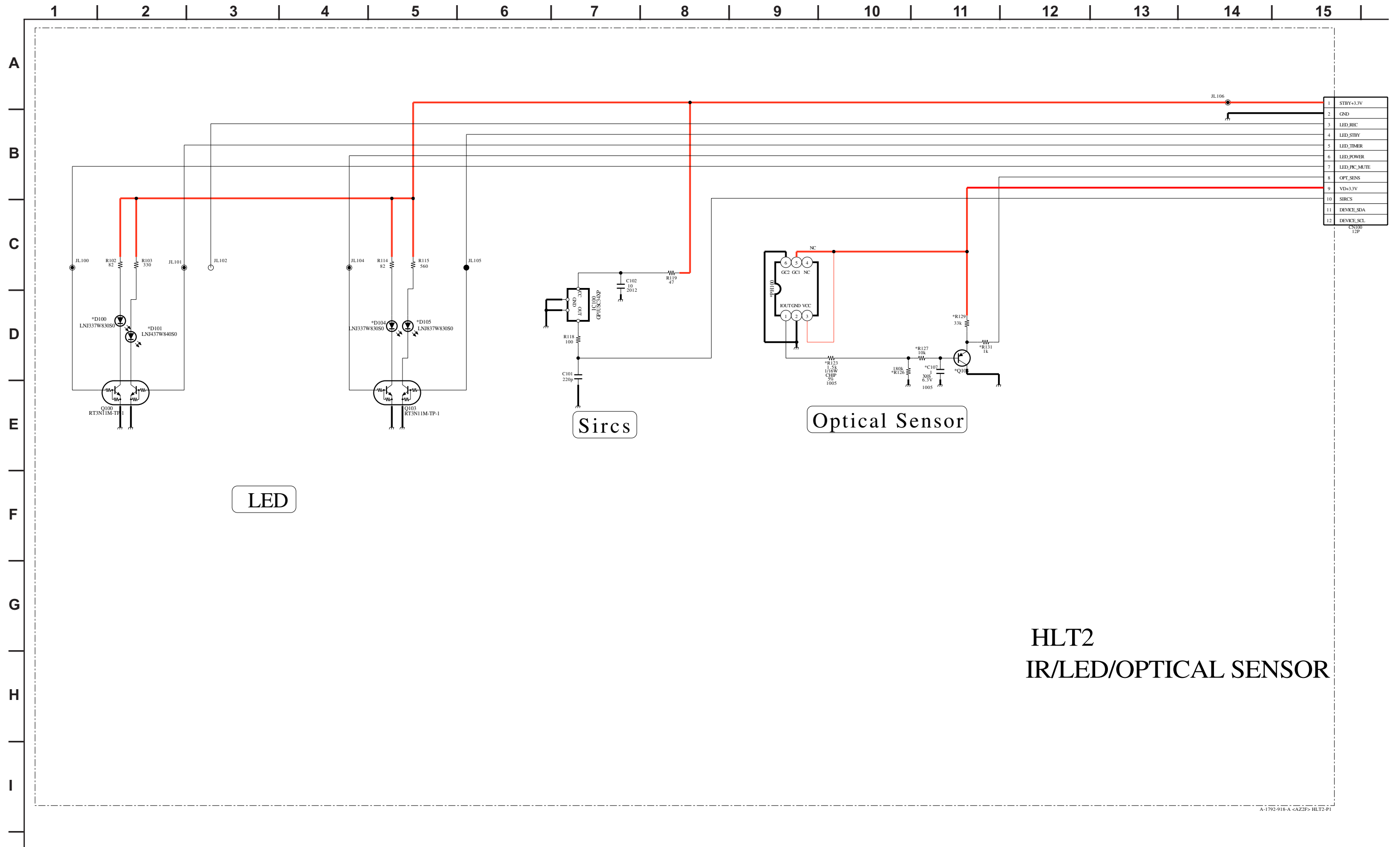


HEM2

[EMITTER]
CONDUCTOR SIDE



HLT2 BOARD SCHEMATIC DIAGRAM



1	STBY+3.3V
2	GND
3	LED_REC
4	LED_STBY
5	LED_TIMER
6	LED_POWER
7	LED_PIC_MUTE
8	OPT_SENS
9	VD+3.3V
10	SIRC5
11	DEVICE_SDA
12	DEVICE_SCL

LED

Sircs

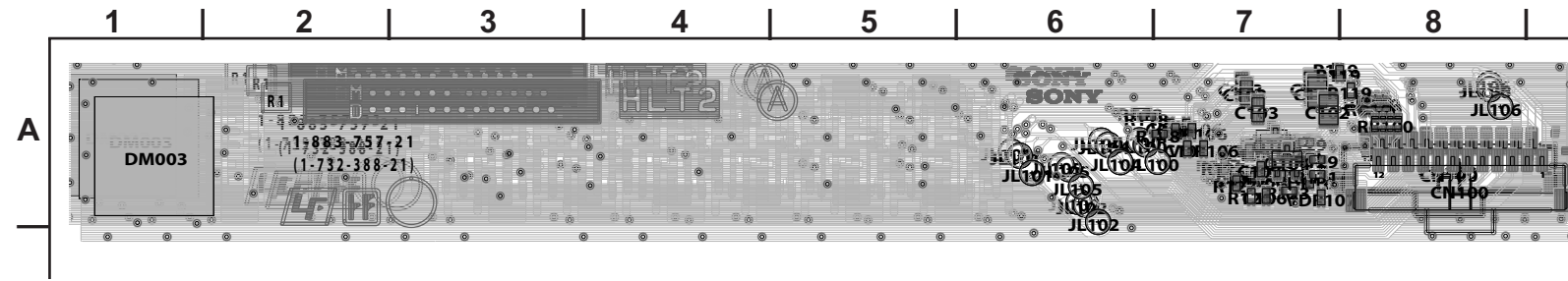
Optical Sensor

HLT2
IR/LED/OPTICAL SENSOR

A-1792-918-A <AZ2P> HLT2-P1

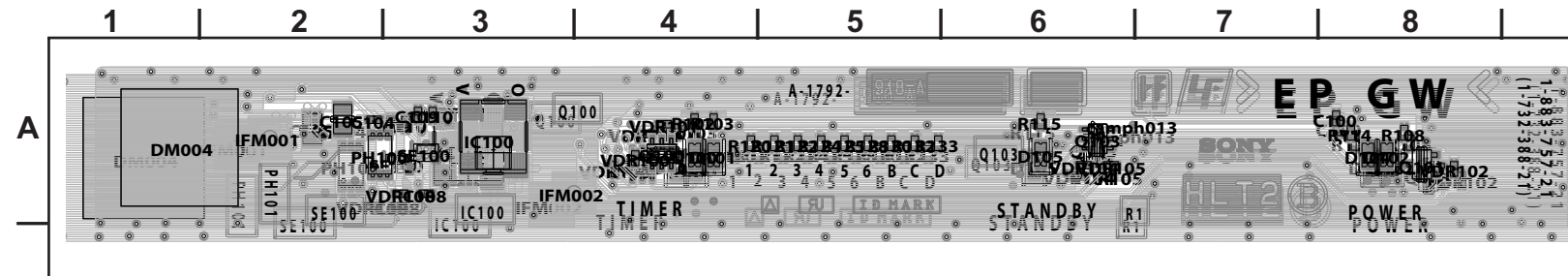
HLT2

[IR/LED/OPTICAL SENSOR]
COMPONENT SIDE

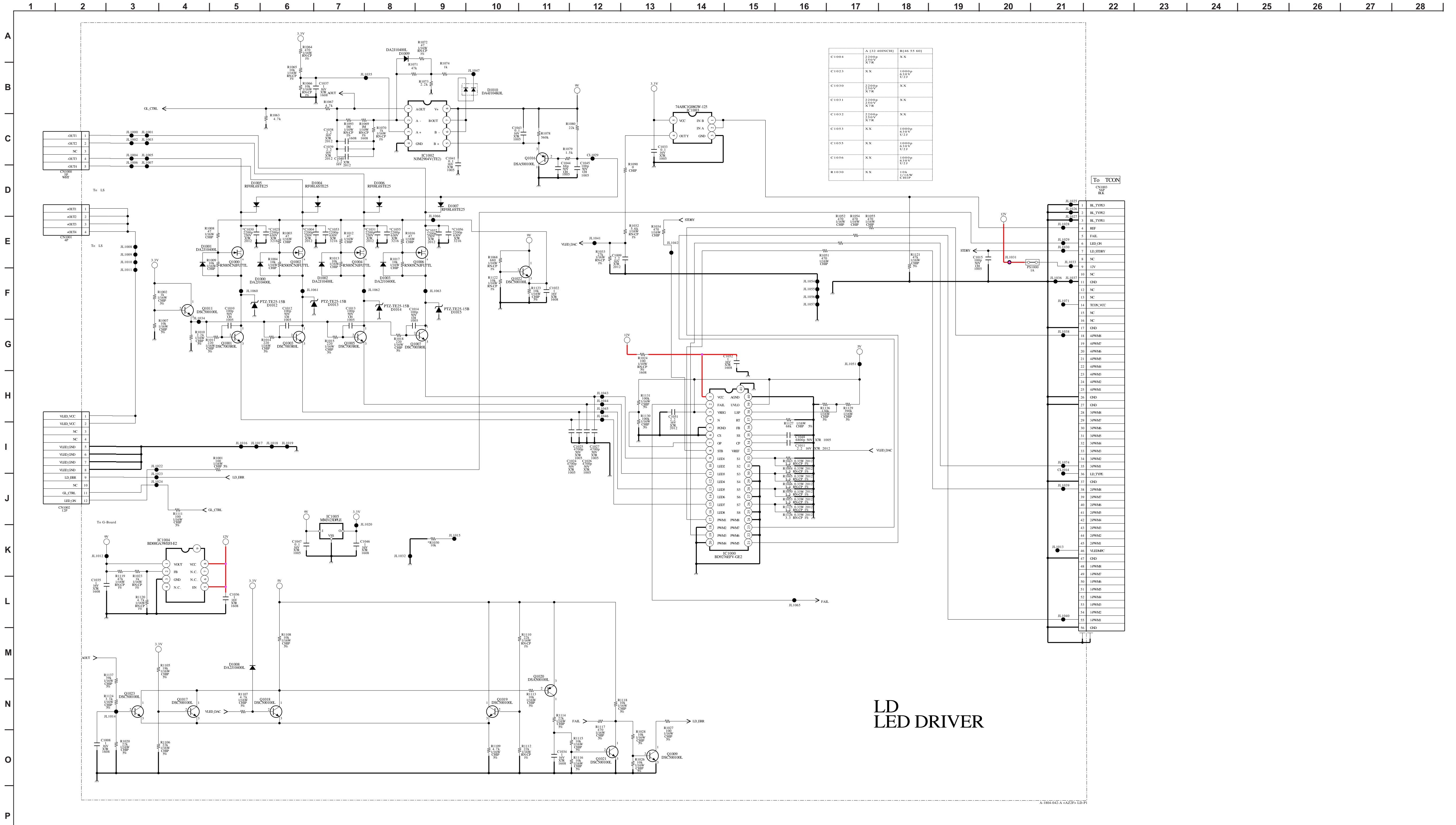


HLT2

[IR/LED/OPTICAL SENSOR]
CONDUCTOR SIDE



LD BOARD SCHEMATIC DIAGRAM (KDL-40NX720 ONLY)

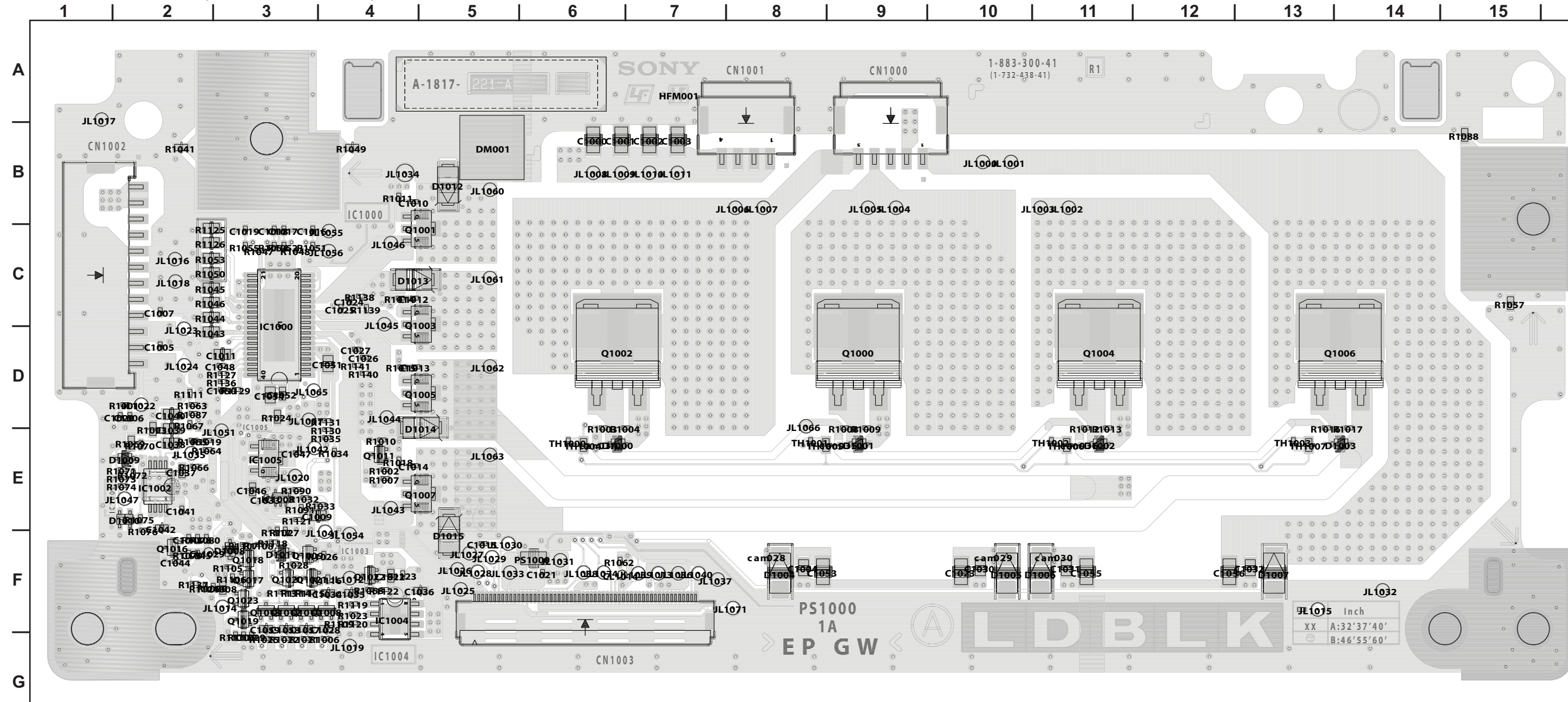


LD LED DRIVER

A1804-042-A-C4235-LD-PI

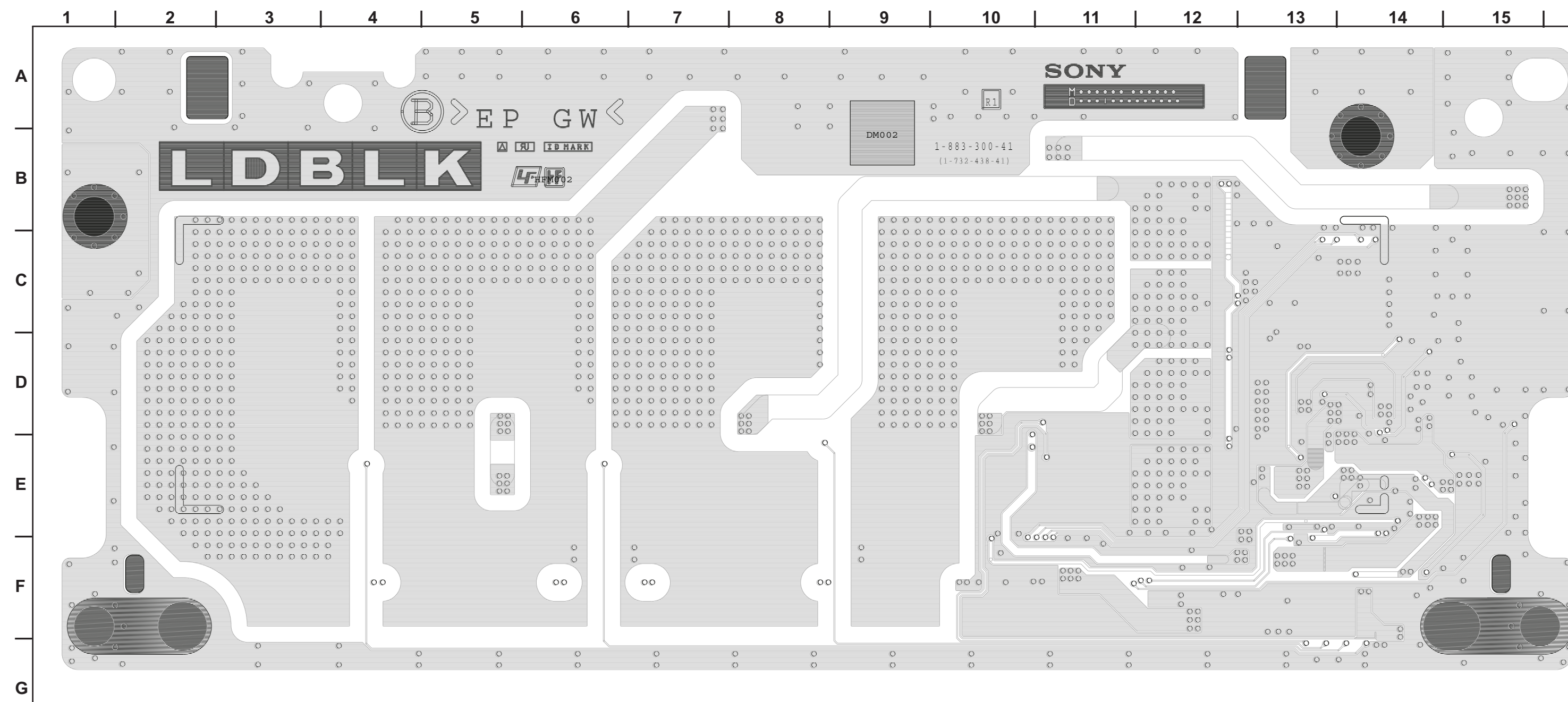
LD

[LED DRIVER]
COMPONENT SIDE (KDL-40NX720 ONLY)



LD

[LED DRIVER]
CONDUCTOR SIDE (KDL-40NX720 ONLY)



SECTION 2: ELECTRICAL PARTS LIST



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

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

* 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 \triangle mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

RESISTORS

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

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

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <h1 style="margin: 0;">BATL</h1> </div>				C1424	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V
<div style="border: 1px solid red; padding: 5px; display: inline-block;"> \triangle A-1811-292-A BATL BOARD, COMPLETE (ALL MODELS EXCEPT KDL-60NX720) AFTER REPLACING THE MAIN BOARD OR THE LCD PANEL, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION. </div>				C1425	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
<div style="border: 1px solid red; padding: 5px; display: inline-block;"> \triangle A-1822-786-A BATL BOARD, COMPLETE (KDL-60NX720 ONLY) AFTER REPLACING THE MAIN BOARD OR THE LCD PANEL, YOU MUST UPDATE THE SOFTWARE TO THE LATEST VERSION. </div>				C1426	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V
CAPACITOR				C1427	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V
C1139	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1428	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1140	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V	C1429	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C1158	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1431	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1160	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V	C1432	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V
C1209	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1436	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V
C1400	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V	C1440	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V
C1402	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1442	1-162-919-11	CERAMIC CHIP	22pF 5% 50V
C1403	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V	C1443	1-164-858-11	CERAMIC CHIP	22pF 5% 50V
C1404	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1444	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V
C1406	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V	C1445	1-162-928-11	CERAMIC CHIP	120pF 5% 50V
C1407	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V	C1447	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V
C1408	1-114-869-11	CERAMIC CHIP	2.2 μ F 10% 6.3V	C1449	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V
C1409	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V	C1450	1-162-923-11	CERAMIC CHIP	47pF 5% 50V
C1410	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V	C1551	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V
C1411	1-100-909-11	CERAMIC CHIP	10 μ F 10% 6.3V	C1707	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1412	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V	C1708	1-112-777-11	CERAMIC CHIP	0.01 μ F 10% 25V
C1413	1-114-130-11	CERAMIC CHIP	1 μ F 10% 6.3V	C1801	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1416	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1802	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1417	1-162-918-11	CERAMIC CHIP	18pF 5% 50V	C1803	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1418	1-164-856-81	CERAMIC CHIP	18pF 5% 50V	C1804	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1419	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1808	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
C1420	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1809	1-164-854-11	CERAMIC CHIP	15pF 5% 50V
C1421	1-164-878-11	CERAMIC CHIP	150pF 5% 50V	C1812	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1422	1-114-807-11	CERAMIC CHIP	0.015 μ F 10% 25V	C1814	1-164-852-11	CERAMIC CHIP	12pF 5% 50V
C1423	1-100-905-11	CERAMIC CHIP	0.001 μ F 10% 50V	C1817	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
				C1819	1-100-909-11	CERAMIC CHIP	10 μ F 10% 6.3V
				C1820	1-100-916-11	CERAMIC CHIP	0.1 μ F 10% 16V
				C1821	1-114-869-11	CERAMIC CHIP	2.2 μ F 10% 6.3V
				C1902	1-114-331-11	CERAMIC CHIP	4.7 μ F 10% 10V
				C1903	1-100-909-11	CERAMIC CHIP	10 μ F 10% 6.3V
				C1906	1-114-331-11	CERAMIC CHIP	4.7 μ F 10% 10V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
C2013	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	*	C4503	1-116-720-11	CERAMIC CHIP	10μF	20%	6.3V
C2014	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4504	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2019	1-114-869-11	CERAMIC CHIP	2.2μF	10%	6.3V		C4522	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2020	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V		C4593	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V
C2022	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C4594	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V
C2400	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		C4601	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2401	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V		C4602	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2406	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V	*	C4606	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2407	1-164-878-11	CERAMIC CHIP	150pF	5%	50V	*	C4608	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2408	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4611	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2409	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4612	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2410	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4613	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2411	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4614	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2412	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C4701	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2414	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C4702	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2416	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	*	C4706	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2424	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	*	C4707	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2425	1-164-858-11	CERAMIC CHIP	22pF	5%	50V		C4711	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2513	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C4712	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2517	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V		C5008	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2527	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		C5011	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2528	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		C5019	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2722	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C5021	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4000	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5023	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4001	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5030	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C4002	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5031	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C4003	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5201	1-114-472-91	CERAMIC CHIP	0.001μF	10%	2KV
C4008	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5252	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4009	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5262	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C4010	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5263	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C4011	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5265	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4027	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C5267	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C4030	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		C5515	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4031	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5518	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4032	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5520	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4033	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5521	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4034	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5522	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4039	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5524	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4041	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V		C5534	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4043	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5536	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C4044	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5548	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4045	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C5553	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4046	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V		C6004	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C4500	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	*	C6007	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C4501	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	*	C6008	1-116-716-11	CERAMIC CHIP	10μF	10%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C6009	1-114-813-11	CERAMIC CHIP	1μF	10%	16V	C7017	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6010	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C7018	1-116-151-11	CERAMIC CHIP	0.001μF	2%	50V
C6011	1-114-802-11	CERAMIC CHIP	0.0033μF	10%	50V	C7020	1-116-151-11	CERAMIC CHIP	0.001μF	2%	50V
C6012	1-114-325-11	CERAMIC CHIP	0.1μF	10%	25V	C7021	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C6014	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7026	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6015	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7027	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6016	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7028	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V
C6020	1-114-813-11	CERAMIC CHIP	1μF	10%	16V	C7029	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V
C6021	1-114-802-11	CERAMIC CHIP	0.0033μF	10%	50V	C7030	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
* C6022	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7033	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
* C6023	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7038	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6024	1-114-325-11	CERAMIC CHIP	0.1μF	10%	25V	C7039	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6025	1-116-080-11	CERAMIC CHIP	22μF	10%	10V	C7040	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6026	1-116-080-11	CERAMIC CHIP	22μF	10%	10V	C7041	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6028	1-112-064-11	CERAMIC CHIP	2.2μF	10%	10V	C7042	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
* C6031	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7043	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
* C6032	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7044	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6033	1-114-325-11	CERAMIC CHIP	0.1μF	10%	25V	C7045	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6034	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7046	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6035	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7047	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
* C6041	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7049	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
* C6042	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7051	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6043	1-114-325-11	CERAMIC CHIP	0.1μF	10%	25V	C7055	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6044	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7056	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6045	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7059	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6055	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7060	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6059	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7064	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6060	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7066	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V
C6062	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7079	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6063	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7080	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C6067	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7082	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6069	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7083	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6071	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7084	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6072	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7085	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C6077	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C8401	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6079	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C8402	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6080	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C8404	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6083	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C8407	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C6084	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C8408	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6101	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C8410	1-114-869-11	CERAMIC CHIP	2.2μF	10%	6.3V
C6102	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9011	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C6103	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9014	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6104	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C9018	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6111	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9019	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C7015	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V	C9021	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>DIODE</u>				FB9001	1-481-517-11	FERRITE	0μH
D1107	6-502-470-01	DIODE	1SS387	FB9002	1-469-084-21	FERRITE	0MH
D2500	6-502-979-01	DIODE	DA4J104K0L	FB9003	1-469-084-21	FERRITE	0MH
D5504	6-502-934-01	DIODE	DB2S31100K8	FB9004	1-469-084-21	FERRITE	0MH
D9004	8-719-027-76	DIODE	1SS357	FB9005	1-469-084-21	FERRITE	0MH
<u>FUSE</u>				FB9006	1-469-084-21	FERRITE	0MH
* F4601	1-523-144-31	FUSE	5A 32V	FB9007	1-469-084-21	FERRITE	0MH
* F4701	1-523-144-31	FUSE	5A 32V	FB9008	1-469-084-21	FERRITE	0MH
F6001	1-576-603-31	FUSE	3.15A 24V	FB9009	1-469-084-21	FERRITE	0MH
F6002	1-576-603-31	FUSE	3.15A 24V	FB9010	1-469-084-21	FERRITE	0MH
F6003	1-576-603-31	FUSE	3.15A 24V	FB9011	1-469-084-21	FERRITE	0MH
<u>FERRITE BEAD</u>				FB9012	1-469-084-21	FERRITE	0MH
FB1107	1-400-331-11	FERRITE	0μH	FB9013	1-469-084-21	FERRITE	0MH
FB1131	1-481-466-11	FERRITE	0μH	FB9305	1-469-084-21	FERRITE	0MH
FB1132	1-481-466-11	FERRITE	0μH	FB9306	1-469-084-21	FERRITE	0MH
FB1305	1-469-084-21	FERRITE	0MH	<u>FILTER</u>			
FB1306	1-469-084-21	FERRITE	0MH	FL5000	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FB1400	1-400-331-11	FERRITE	0μH	FL5501	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FB1401	1-400-808-21	FERRITE	0μH	FL9600	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FB1801	1-400-808-21	FERRITE	0μH	FL9601	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FB1804	1-469-084-21	FERRITE	0MH	<u>IC</u>			
FB1805	1-469-084-21	FERRITE	0MH	* IC1404	8-753-372-57	IC	CXD2825GA-T4
FB2004	1-481-517-11	FERRITE	0μH	IC2500	6-704-600-01	IC	M24C02-WMN6T(B)
FB2403	1-469-084-21	FERRITE	0MH	IC2501	6-707-846-01	IC	TC74LCX14FT(EKJ)
FB2404	1-469-084-21	FERRITE	0MH	* IC4502	8-753-363-51	IC	CXA3815N-T4
FB2405	1-469-084-21	FERRITE	0MH	* IC4601	6-716-811-01	IC	YDA164B-QZE2
FB2406	1-469-084-21	FERRITE	0MH	* IC5000	6-717-000-01	IC	GL850G-MNG21
FB2407	1-469-084-21	FERRITE	0MH	* IC5001	6-717-001-01	IC	RTL8201ES-VE-GRT
FB2408	1-469-084-21	FERRITE	0MH	IC5002	6-715-164-01	IC	TPS2553DBVR
FB2500	1-218-990-81	SHORT CHIP		IC5003	6-715-164-01	IC	TPS2553DBVR
FB2501	1-218-990-81	SHORT CHIP		* IC6002	6-716-852-01	IC	TPS54425PWPR
FB2502	1-218-990-81	SHORT CHIP		* IC6003	6-716-892-01	IC	BD95830MUV-E2
FB2503	1-218-990-81	SHORT CHIP		* IC6005	6-716-890-01	IC	TPS53114APWR
FB4094	1-469-084-21	FERRITE	0MH	* IC8400	6-715-859-01	IC	MM3464A18NRE
FB4095	1-469-084-21	FERRITE	0MH	* IC8402	6-716-980-01	IC	TC58RYG1S8EBAIA
FB4096	1-469-084-21	FERRITE	0MH	IC9007	6-714-506-01	IC	MM3404A12URE
FB4097	1-469-084-21	FERRITE	0MH	* IC9008	6-716-843-01	IC	MM3285FNRE
FB4098	1-469-084-21	FERRITE	0MH	* IC9600	6-716-959-01	IC	NT5CB128M16BP-CG
FB4099	1-469-084-21	FERRITE	0MH	* IC9601	6-716-959-01	IC	NT5CB128M16BP-CG
FB5002	1-481-517-11	FERRITE	0μH	<u>JACK</u>			
FB5003	1-216-864-11	SHORT CHIP		* J2700	1-842-576-11	MINI JACK (RA)	
FB5004	1-216-864-11	SHORT CHIP		J2702	1-842-573-11	HP JACK	

BATL

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
<u>COIL</u>				<u>RESISTOR</u>			
*	L1102	1-460-364-11	AIR CORE COIL	R1041	1-218-965-11	METAL CHIP	10K 5% 1/16W
*	L1103	1-481-341-21	INDUCTOR 270NH	R1113	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
	L1105	1-218-990-81	SHORT CHIP	R1114	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
	L1405	1-414-845-21	INDUCTOR 27NH	R1117	1-218-990-81	SHORT CHIP	
	L1406	1-414-845-21	INDUCTOR 27NH	R1146	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
	L1901	1-400-788-21	INDUCTOR 1μH	R1216	1-218-990-81	SHORT CHIP	
	L2000	1-457-539-11	INDUCTOR 0μH	R1219	1-218-990-81	SHORT CHIP	
	L2001	1-457-539-11	INDUCTOR 0μH	R1228	1-218-990-81	SHORT CHIP	
	L2002	1-457-539-11	INDUCTOR 0μH	R1400	1-218-990-81	SHORT CHIP	
	L2003	1-457-539-11	INDUCTOR 0μH	R1401	1-242-967-11	METAL CHIP	1 5% 1/16W
	L2004	1-457-539-11	INDUCTOR 0μH	R1402	1-218-941-81	METAL CHIP	100 5% 1/16W
	L2005	1-457-539-11	INDUCTOR 0μH	R1403	1-218-941-81	METAL CHIP	100 5% 1/16W
	L4601	1-457-899-11	INDUCTOR 15μH	R1404	1-218-953-11	METAL CHIP	1K 5% 1/16W
	L4602	1-457-899-11	INDUCTOR 15μH	R1405	1-218-941-81	METAL CHIP	100 5% 1/16W
	L4603	1-457-899-11	INDUCTOR 15μH	R1407	1-218-941-81	METAL CHIP	100 5% 1/16W
	L4604	1-457-899-11	INDUCTOR 15μH	R1408	1-218-941-81	METAL CHIP	100 5% 1/16W
	L4701	1-457-899-11	INDUCTOR 15μH	R1409	1-218-965-11	METAL CHIP	10K 5% 1/16W
	L4702	1-457-899-11	INDUCTOR 15μH	R1410	1-218-990-81	SHORT CHIP	
	L5500	1-457-539-11	INDUCTOR 0μH	R1411	1-218-983-11	METAL CHIP	330K 5% 1/16W
	L5501	1-457-539-11	INDUCTOR 0μH	R1421	1-218-990-81	SHORT CHIP	
	L5502	1-457-539-11	INDUCTOR 0μH	R1423	1-218-990-81	SHORT CHIP	
	L5503	1-457-539-11	INDUCTOR 0μH	R1439	1-216-864-11	SHORT CHIP	
	L5504	1-457-539-11	INDUCTOR 0μH	R1701	1-218-969-11	METAL CHIP	22K 5% 1/16W
	L5505	1-457-539-11	INDUCTOR 0μH	R1702	1-218-965-11	METAL CHIP	10K 5% 1/16W
	L5506	1-457-539-11	INDUCTOR 0μH	R1801	1-218-943-11	METAL CHIP	150 5% 1/16W
	L5507	1-457-539-11	INDUCTOR 0μH	R1802	1-218-990-81	SHORT CHIP	
	L5508	1-457-539-11	INDUCTOR 0μH	R1805	1-218-955-11	METAL CHIP	1.5K 5% 1/16W
	L5509	1-457-539-11	INDUCTOR 0μH	R1806	1-218-989-11	METAL CHIP	1M 5% 1/16W
	L6001	1-457-864-11	INDUCTOR 1μH	R1808	1-218-951-11	METAL CHIP	680 5% 1/16W
	L6002	1-457-730-11	INDUCTOR 2.2μH	R1809	1-218-961-11	METAL CHIP	4.7K 5% 1/16W
*	L6003	1-460-357-11	INDUCTOR 3.3μH	R1810	1-218-955-11	METAL CHIP	1.5K 5% 1/16W
	L6004	1-457-526-11	INDUCTOR 2.2μH	R1811	1-218-941-81	METAL CHIP	100 5% 1/16W
	L6005	1-400-791-21	INDUCTOR 10μH	R1812	1-218-941-81	METAL CHIP	100 5% 1/16W
<u>TRANSISTOR</u>				R1813	1-218-937-11	METAL CHIP	47 5% 1/16W
	Q5500	6-552-408-01	TRANSISTOR DSC500100L	R1814	1-218-937-11	METAL CHIP	47 5% 1/16W
	Q5501	6-552-430-01	TRANSISTOR DRC5114E0L	R1858	1-218-990-81	SHORT CHIP	
*	Q6002	6-552-739-01	TRANSISTOR RP1E070XNFPFTCR	R1859	1-218-990-81	SHORT CHIP	
*	Q6003	6-552-740-01	TRANSISTOR RP1E090XNFPFTCR	R1860	1-218-990-81	SHORT CHIP	
	Q7001	6-552-408-01	TRANSISTOR DSC500100L	R1861	1-218-990-81	SHORT CHIP	
	Q9008	6-552-410-01	TRANSISTOR DRA5114E0L	R2020	1-218-965-11	METAL CHIP	10K 5% 1/16W
				R2029	1-218-990-81	SHORT CHIP	
				R2035	1-218-990-81	SHORT CHIP	
				R2039	1-218-990-81	SHORT CHIP	

BATL

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2401	1-218-973-11	METAL CHIP	47K	5%	1/16W	R5515	1-218-929-11	METAL CHIP	10	5%	1/16W
R2404	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	R5521	1-218-929-11	METAL CHIP	10	5%	1/16W
R2405	1-250-495-11	METAL CHIP	1K	1%	1/16W	R5555	1-218-929-11	METAL CHIP	10	5%	1/16W
R2406	1-250-495-11	METAL CHIP	1K	1%	1/16W	R5568	1-218-970-11	METAL CHIP	27K	5%	1/16W
R2407	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R5573	1-218-929-11	METAL CHIP	10	5%	1/16W
R2427	1-208-859-81	METAL CHIP	68	0.50%	1/16W	R5607	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2428	1-218-945-11	METAL CHIP	220	5%	1/16W	R5611	1-218-943-11	METAL CHIP	150	5%	1/16W
R2429	1-218-990-81	SHORT CHIP				R5612	1-218-937-11	METAL CHIP	47	5%	1/16W
R2430	1-218-990-81	SHORT CHIP				R5631	1-218-929-11	METAL CHIP	10	5%	1/16W
R2431	1-218-945-11	METAL CHIP	220	5%	1/16W	R5633	1-216-864-11	SHORT CHIP			
R2432	1-218-945-11	METAL CHIP	220	5%	1/16W	R5634	1-218-941-81	METAL CHIP	100	5%	1/16W
R2554	1-218-977-11	METAL CHIP	100K	5%	1/16W	R5635	1-218-941-81	METAL CHIP	100	5%	1/16W
R2597	1-218-990-81	SHORT CHIP				R5637	1-218-947-11	METAL CHIP	330	5%	1/16W
R2598	1-218-990-81	SHORT CHIP				* R6004	1-250-509-11	METAL CHIP	3.9K	1%	1/16W
R2599	1-218-990-81	SHORT CHIP				* R6005	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
R2718	1-218-953-11	METAL CHIP	1K	5%	1/16W	R6006	1-250-519-11	METAL CHIP	10K	1%	1/16W
R4031	1-218-990-81	SHORT CHIP				* R6007	1-250-545-11	METAL CHIP	120K	1%	1/16W
R4050	1-218-945-11	METAL CHIP	220	5%	1/16W	* R6008	1-250-511-11	METAL CHIP	4.7K	1%	1/16W
R4072	1-218-947-11	METAL CHIP	330	5%	1/16W	* R6009	1-250-527-11	METAL CHIP	22K	1%	1/16W
R4509	1-218-969-11	METAL CHIP	22K	5%	1/16W	* R6010	1-250-493-11	METAL CHIP	820	1%	1/16W
R4521	1-218-990-81	SHORT CHIP				* R6011	1-250-523-11	METAL CHIP	15K	1%	1/16W
R4612	1-218-990-81	SHORT CHIP				* R6012	1-250-511-11	METAL CHIP	4.7K	1%	1/16W
R5012	1-218-937-11	METAL CHIP	47	5%	1/16W	* R6013	1-250-479-11	METAL CHIP	220	1%	1/16W
R5020	1-246-127-21	METAL CHIP	2.49K	1%	1/16W	* R6014	1-250-501-11	METAL CHIP	1.8K	1%	1/16W
R5046	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	* R6015	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
R5051	1-218-937-11	METAL CHIP	47	5%	1/16W	R6022	1-218-990-81	SHORT CHIP			
R5052	1-218-937-11	METAL CHIP	47	5%	1/16W	R6033	1-218-990-81	SHORT CHIP			
* R5062	1-250-526-11	METAL CHIP	20K	1%	1/16W	R6034	1-218-990-81	SHORT CHIP			
* R5063	1-250-526-11	METAL CHIP	20K	1%	1/16W	R6098	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5064	1-218-965-11	METAL CHIP	10K	5%	1/16W	R6100	1-250-519-11	METAL CHIP	10K	1%	1/16W
R5065	1-218-965-11	METAL CHIP	10K	5%	1/16W	* R7009	1-250-589-11	METAL CHIP	75	1%	1/10W
R5066	1-216-864-11	SHORT CHIP				* R7010	1-250-589-11	METAL CHIP	75	1%	1/10W
* R5128	1-250-477-11	METAL CHIP	180	1%	1/16W	* R7011	1-250-589-11	METAL CHIP	75	1%	1/10W
R5156	1-218-937-11	METAL CHIP	47	5%	1/16W	* R7012	1-250-589-11	METAL CHIP	75	1%	1/10W
R5163	1-218-945-11	METAL CHIP	220	5%	1/16W	* R7013	1-250-589-11	METAL CHIP	75	1%	1/10W
R5164	1-218-945-11	METAL CHIP	220	5%	1/16W	* R7014	1-250-589-11	METAL CHIP	75	1%	1/10W
R5165	1-218-945-11	METAL CHIP	220	5%	1/16W	* R7018	1-250-589-11	METAL CHIP	75	1%	1/10W
R5166	1-218-945-11	METAL CHIP	220	5%	1/16W	R7019	1-218-967-11	METAL CHIP	15K	5%	1/16W
R5200	1-218-965-11	METAL CHIP	10K	5%	1/16W	R7021	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5268	1-218-977-11	METAL CHIP	100K	5%	1/16W	R7023	1-250-495-11	METAL CHIP	1K	1%	1/16W
* R5269	1-250-491-11	METAL CHIP	680	1%	1/16W	* R7027	1-250-499-11	METAL CHIP	1.5K	1%	1/16W
R5270	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R7029	1-250-495-11	METAL CHIP	1K	1%	1/16W
						* R7036	1-250-489-11	METAL CHIP	560	1%	1/16W
						R8400	1-218-945-11	METAL CHIP	220	5%	1/16W
						R8419	1-218-937-11	METAL CHIP	47	5%	1/16W

BATL G4 G5 G6 G7

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
RB5203	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	VD2701	1-802-078-11	VARISTOR (SMD)	
RB5204	1-234-373-21	RES, NETWORK 220	(1005X4)	VD2701	1-802-090-21	VARISTOR, CHIP	
RB5210	1-234-378-21	RES, NETWORK 10K	(1005X4)	VD2705	1-802-078-11	VARISTOR (SMD)	
RB5500	1-234-380-21	RES, NETWORK 47K	(1005X4)	VD2705	1-802-090-21	VARISTOR, CHIP	
RB5502	1-234-380-21	RES, NETWORK 47K	(1005X4)	VD2708	1-802-078-11	VARISTOR (SMD)	
RB5504	1-234-380-21	RES, NETWORK 47K	(1005X4)	VD2708	1-802-090-21	VARISTOR, CHIP	
RB5505	1-234-380-21	RES, NETWORK 47K	(1005X4)	VD2709	1-802-078-11	VARISTOR (SMD)	
RB5506	1-234-378-21	RES, NETWORK 10K	(1005X4)	VD2709	1-802-090-21	VARISTOR, CHIP	
RB5510	1-234-377-21	RES, NETWORK 4.7K	(1005X4)	VD2711	1-802-078-11	VARISTOR (SMD)	
RB5511	1-234-375-21	RES, NETWORK 1K	(1005X4)	VD2711	1-802-090-21	VARISTOR, CHIP	
RB8400	1-234-702-11	RES, NETWORK 68	(1005X4)	VD2713	1-802-078-11	VARISTOR (SMD)	
RB8401	1-234-702-11	RES, NETWORK 68	(1005X4)	VD2713	1-802-090-21	VARISTOR, CHIP	
RB8402	1-234-702-11	RES, NETWORK 68	(1005X4)				
RB8403	1-234-372-11	RES, NETWORK 100	(1005X4)			CRYSTAL	
RB8404	1-234-702-11	RES, NETWORK 68	(1005X4)	*	X1401	1-814-501-11	QUARTZ CRYSTAL UNIT
RB9000	1-234-372-11	RES, NETWORK 100	(1005X4)		X1801	1-814-238-11	VIBRATOR, CRYSTAL
RB9001	1-234-372-11	RES, NETWORK 100	(1005X4)	*	X1801	1-814-475-11	QUARTZ CRYSTAL UNIT
RB9002	1-234-372-11	RES, NETWORK 100	(1005X4)		X5000	1-813-877-11	QUARTZ CRYSTAL UNIT
RB9025	1-234-369-21	RES, NETWORK 10	(1005X4)		X5000	1-814-304-11	VIBRATOR, CRYSTAL
RB9026	1-234-369-21	RES, NETWORK 10	(1005X4)	*	X9000	1-814-471-11	QUARTZ CRYSTAL UNIT
RB9040	1-234-380-21	RES, NETWORK 47K	(1005X4)		X9000	1-814-485-11	QUARTZ CRYSTAL UNIT
RB9041	1-234-380-21	RES, NETWORK 47K	(1005X4)		X9001	1-781-525-11	VIBRATOR, CRYSTAL
RB9042	1-234-380-21	RES, NETWORK 47K	(1005X4)	*	X9001	1-814-476-11	QUARTZ CRYSTAL UNIT
RB9043	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9092	1-234-380-21	RES, NETWORK 47K	(1005X4)				
		TRANSFORMER					
*	T1401	1-445-777-11	TRANSFORMER, RF (SMD) (2010)				
	T5200	1-443-830-21	MAGNETIC MODULE(TLA-6T213LF)-T				
*	T5200	1-445-954-11	PULSE TRANSFORMER				
*	T5200	1-445-955-11	PULSE TRANSFORMER				
*	T5200	1-445-980-11	PULSE TRANSFORMER				
		VARISTOR					
	VD2512	1-802-078-11	VARISTOR (SMD)				
	VD2512	1-802-090-21	VARISTOR, CHIP				
	VD2515	1-802-078-11	VARISTOR (SMD)				
	VD2515	1-802-090-21	VARISTOR, CHIP				
	VD2518	1-802-078-11	VARISTOR (SMD)				
	VD2518	1-802-090-21	VARISTOR, CHIP				
	VD2520	1-802-078-11	VARISTOR (SMD)				
	VD2520	1-802-090-21	VARISTOR, CHIP				
	VD2524	1-802-078-11	VARISTOR (SMD)				
	VD2524	1-802-090-21	VARISTOR, CHIP				
						G4	
					1-474-301-11	G4 (POWER SUPPLY) BOARD, COMPLETE (KDL-40NX720 ONLY) Component level repair information is not available.	
						G5	
					1-474-307-11	G5 (POWER SUPPLY) BOARD, COMPLETE (KDL-46NX720 ONLY) Component level repair information is not available.	
						G6	
					1-474-304-11	G6 (POWER SUPPLY) BOARD, COMPLETE (KDL-55NX720/60NX720 ONLY) Component level repair information is not available.	
						G7	
					1-474-305-11	G7 (POWER SUPPLY) BOARD, COMPLETE (KDL-55NX720/60NX720 ONLY) Component level repair information is not available.	

HEM2 HLT2

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
HEM2											
A-1792-512-A HEM2 BOARD, MOUNTED											
<u>CAPACITOR</u>											
C301	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	R337	1-250-451-11	METAL CHIP	15	1%	1/16W
C302	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	R339	1-218-969-11	METAL CHIP	22K	5%	1/16W
C303	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	R340	1-250-519-11	METAL CHIP	10K	1%	1/16W
C304	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	R343	1-216-864-11	SHORT CHIP			
C305	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	<u>RESISTOR BRIDGE</u>					
C306	1-135-366-11	ELECT CHIP	100μF	20%	16V	RB301	1-250-267-21	RES, NETWORK 33K (1005X4)			
C307	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	HLT2					
C308	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	A-1792-918-A HLT2 BOARD, MOUNTED					
C309	1-135-366-11	ELECT CHIP	100μF	20%	16V	<u>CAPACITOR</u>					
C310	1-114-553-11	CERAMIC CHIP	10μF	10%	16V	C101	1-112-068-11	CERAMIC CHIP	220pF	10%	50V
C311	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C102	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C319	1-100-912-11	CERAMIC CHIP	1μF	10%	25V	C107	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
<u>DIODE</u>						<u>CONNECTOR</u>					
* D301	6-503-473-01	DIODE	IR-LED-SFH4250S			* CN100	1-820-189-11	HEADER ASSEMBLY	(PRINT PWB)		
* D302	6-503-473-01	DIODE	IR-LED-SFH4250S			<u>DIODE</u>					
* D305	6-503-473-01	DIODE	IR-LED-SFH4250S			* D100	6-502-294-01	DIODE	SML-D13M8WT86S		
* D306	6-503-473-01	DIODE	IR-LED-SFH4250S			D101	6-502-196-01	DIODE	SML-D12Y8WT86SP		
D309	6-502-979-01	DIODE	DA4J104K0L			* D104	6-502-294-01	DIODE	SML-D13M8WT86S		
<u>TRANSISTOR</u>						D105	6-502-598-01	DIODE	SML-D12U8WT86		
* Q301	6-552-755-01	TRANSISTOR	SSM3K36UFV-L3SOF			<u>PHOTO COUPLER</u>					
* Q302	6-552-755-01	TRANSISTOR	SSM3K36UFV-L3SOF			PH100	6-600-680-01	PHOTO DIODE	BH1690FVC-TR		
Q303	6-552-408-01	TRANSISTOR	DSC500100L			<u>TRANSISTOR</u>					
Q304	6-552-408-01	TRANSISTOR	DSC500100L			Q100	6-551-690-01	TRANSISTOR	RT3N11M-TP-1		
Q305	6-551-551-01	TRANSISTOR	RT3N77M-TP-1			Q103	6-551-690-01	TRANSISTOR	RT3N11M-TP-1		
<u>RESISTOR</u>						Q104	6-552-407-01	TRANSISTOR	DSA500100L		
R301	1-216-864-11	SHORT CHIP				<u>RESISTOR</u>					
R313	1-216-864-11	SHORT CHIP				* R102	1-250-469-11	METAL CHIP	82	1%	1/16W
R318	1-220-802-11	METAL CHIP	3.3	5%	1/16W	* R114	1-250-469-11	METAL CHIP	82	1%	1/16W
R322	1-220-802-11	METAL CHIP	3.3	5%	1/16W	* R115	1-250-489-11	METAL CHIP	560	1%	1/16W
* R325	1-250-509-11	METAL CHIP	3.9K	1%	1/16W	R118	1-218-941-81	METAL CHIP	100	5%	1/16W
* R326	1-250-499-11	METAL CHIP	1.5K	1%	1/16W	R119	1-218-937-11	METAL CHIP	47	5%	1/16W
R327	1-250-451-11	METAL CHIP	15	1%	1/16W	R123	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R328	1-250-451-11	METAL CHIP	15	1%	1/16W	* R126	1-250-549-11	METAL CHIP	180K	1%	1/16W
R329	1-250-451-11	METAL CHIP	15	1%	1/16W	R127	1-218-965-11	METAL CHIP	10K	5%	1/16W
* R333	1-250-509-11	METAL CHIP	3.9K	1%	1/16W	R129	1-218-971-11	METAL CHIP	33K	5%	1/16W
* R334	1-250-499-11	METAL CHIP	1.5K	1%	1/16W	R131	1-218-953-11	METAL CHIP	1K	5%	1/16W
R335	1-250-451-11	METAL CHIP	15	1%	1/16W						
R336	1-250-451-11	METAL CHIP	15	1%	1/16W						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES	
<div style="border: 1px solid black; padding: 2px; display: inline-block; font-weight: bold; font-size: 1.2em;">LD</div>				<u>DIODE</u>				
				D1000	6-502-978-01	DIODE	DA2J10400L	
				D1001	6-502-978-01	DIODE	DA2J10400L	
				D1002	6-502-978-01	DIODE	DA2J10400L	
				D1003	6-502-978-01	DIODE	DA2J10400L	
				D1008	6-502-978-01	DIODE	DA2J10400L	
				D1009	6-502-978-01	DIODE	DA2J10400L	
				D1010	6-502-979-01	DIODE	DA4J104K0L	
				D1012	8-719-084-56	DIODE	PTZ-TE25-15B	
				D1013	8-719-084-56	DIODE	PTZ-TE25-15B	
				D1014	8-719-084-56	DIODE	PTZ-TE25-15B	
				D1015	8-719-084-56	DIODE	PTZ-TE25-15B	
				<u>IC</u>				
				*	IC1000	6-716-894-01	IC	BD9276EFV-GE2
					IC1002	8-759-337-40	IC	NJM2904V(TE2)
					IC1003	6-706-487-01	IC	TC7SH08FU
					IC1004	6-716-462-01	IC	BD00GA3WEFJ-E2
					IC1005	6-705-373-01	IC	MM3123DPLE
				<u>IC LINK</u>				
				*	PS1000	1-533-547-51	IC LINK	1A 24V
				<u>TRANSISTOR</u>				
				*	Q1000	6-552-743-01	TRANSISTOR	R5005CNJFU7TL
				*	Q1002	6-552-743-01	TRANSISTOR	R5005CNJFU7TL
				*	Q1004	6-552-743-01	TRANSISTOR	R5005CNJFU7TL
				*	Q1006	6-552-743-01	TRANSISTOR	R5005CNJFU7TL
					Q1009	6-552-408-01	TRANSISTOR	DSC500100L
					Q1011	6-552-408-01	TRANSISTOR	DSC500100L
					Q1016	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF
					Q1017	6-552-408-01	TRANSISTOR	DSC500100L
					Q1018	6-552-408-01	TRANSISTOR	DSC500100L
					Q1019	6-552-408-01	TRANSISTOR	DSC500100L
					Q1020	6-551-699-01	TRANSISTOR	ISA1602AM1-T111-1EF
					Q1021	6-552-408-01	TRANSISTOR	DSC500100L
					Q1022	6-552-408-01	TRANSISTOR	DSC500100L
					Q1023	6-552-408-01	TRANSISTOR	DSC500100L
				<u>RESISTOR</u>				
					R1001	1-218-941-81	METAL CHIP	100 5% 1/16W
					R1002	1-218-953-11	METAL CHIP	1K 5% 1/16W
					R1003	1-218-937-11	METAL CHIP	47 5% 1/16W
					R1004	1-218-965-11	METAL CHIP	10K 5% 1/16W
					R1007	1-218-965-11	METAL CHIP	10K 5% 1/16W
				<u>CONNECTOR</u>				
					CN1001	1-819-460-11	HEADER ASSEMBLY FOR PWB	
				*	CN1003	1-842-607-21	FFC/FPC CONNECTOR (ZIF)	56P
	A-1796-818-A	LD BOARD, MOUNTED (KDL-40NX720 ONLY)						
		<u>CAPACITOR</u>						
*	C1004	1-100-925-21	CERAMIC CHIP	0.0022μF	10%	250V		
*	C1008	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
*	C1009	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
	C1010	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
*	C1011	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
	C1012	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
	C1013	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
	C1014	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
	C1015	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
*	C1022	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
	C1024	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V		
	C1025	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V		
	C1026	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V		
	C1027	1-112-776-11	CERAMIC CHIP	0.0047μF	10%	50V		
*	C1030	1-100-925-21	CERAMIC CHIP	0.0022μF	10%	250V		
*	C1031	1-100-925-21	CERAMIC CHIP	0.0022μF	10%	250V		
*	C1032	1-100-925-21	CERAMIC CHIP	0.0022μF	10%	250V		
	C1033	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		
*	C1034	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
*	C1035	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
*	C1036	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
*	C1037	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
*	C1038	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
*	C1039	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
*	C1040	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
	C1041	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		
	C1043	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		
	C1044	1-164-870-11	CERAMIC CHIP	68pF	5%	50V		
	C1045	1-164-874-11	CERAMIC CHIP	100pF	5%	50V		
*	C1046	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		
	C1047	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V		
	C1048	1-114-734-11	CERAMIC CHIP	0.0068μF	10%	50V		
*	C1051	1-116-727-11	CERAMIC CHIP	2.2μF	10%	16V		
*	C1052	1-116-735-11	CERAMIC CHIP	1μF	10%	16V		



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1008	1-218-937-11	METAL CHIP	47	5%	1/16W	* R1110	1-250-527-11	METAL CHIP	22K	1%	1/16W
R1009	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1111	1-218-941-81	METAL CHIP	100	5%	1/16W
R1010	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	* R1112	1-250-527-11	METAL CHIP	22K	1%	1/16W
R1011	1-218-945-11	METAL CHIP	220	5%	1/16W	R1113	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1012	1-218-937-11	METAL CHIP	47	5%	1/16W	R1114	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1013	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1115	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1014	1-218-945-11	METAL CHIP	220	5%	1/16W	R1116	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1015	1-218-945-11	METAL CHIP	220	5%	1/16W	R1117	1-218-949-11	METAL CHIP	470	5%	1/16W
R1016	1-218-937-11	METAL CHIP	47	5%	1/16W	R1118	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1017	1-218-965-11	METAL CHIP	10K	5%	1/16W	* R1120	1-250-511-11	METAL CHIP	4.7K	1%	1/16W
R1018	1-218-945-11	METAL CHIP	220	5%	1/16W	R1121	1-218-973-11	METAL CHIP	47K	5%	1/16W
R1020	1-218-969-11	METAL CHIP	22K	5%	1/16W	R1122	1-250-519-11	METAL CHIP	10K	1%	1/16W
R1023	1-250-495-11	METAL CHIP	1K	1%	1/16W	R1123	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1024	1-216-809-11	METAL CHIP	100	5%	1/10W	R1124	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R1026	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1127	1-218-975-11	METAL CHIP	68K	5%	1/16W
R1027	1-218-941-81	METAL CHIP	100	5%	1/16W	R1129	1-218-984-11	METAL CHIP	390K	5%	1/16W
R1028	1-218-965-11	METAL CHIP	10K	5%	1/16W	R1130	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R1032	1-250-513-11	METAL CHIP	5.6K	1%	1/16W	R1131	1-218-977-11	METAL CHIP	100K	5%	1/16W
* R1033	1-250-529-11	METAL CHIP	27K	1%	1/16W	R1136	1-218-978-11	METAL CHIP	120K	5%	1/16W
R1034	1-218-949-11	METAL CHIP	470	5%	1/16W	R1137	1-218-972-11	METAL CHIP	39K	5%	1/16W
R1051	1-218-949-11	METAL CHIP	470	5%	1/16W						
R1052	1-218-949-11	METAL CHIP	470	5%	1/16W						
R1054	1-218-949-11	METAL CHIP	470	5%	1/16W						
R1055	1-218-949-11	METAL CHIP	470	5%	1/16W						
R1063	1-218-961-11	METAL CHIP	4.7K	5%	1/16W						
R1064	1-250-487-11	METAL CHIP	470	1%	1/16W						
R1065	1-250-519-11	METAL CHIP	10K	1%	1/16W						
R1066	1-250-519-11	METAL CHIP	10K	1%	1/16W						
R1067	1-218-961-11	METAL CHIP	4.7K	5%	1/16W						
* R1068	1-250-491-11	METAL CHIP	680	1%	1/16W						
* R1069	1-250-688-11	METAL CHIP	1M	1%	1/10W						
R1070	1-250-495-11	METAL CHIP	1K	1%	1/16W						
* R1072	1-250-463-11	METAL CHIP	47	1%	1/16W						
* R1073	1-250-503-11	METAL CHIP	2.2K	1%	1/16W						
R1074	1-250-495-11	METAL CHIP	1K	1%	1/16W						
* R1078	1-250-561-11	METAL CHIP	560K	1%	1/16W						
* R1079	1-250-499-11	METAL CHIP	1.5K	1%	1/16W						
* R1080	1-250-527-11	METAL CHIP	22K	1%	1/16W						
R1090	1-218-990-81	SHORT CHIP									
* R1093	1-250-688-11	METAL CHIP	1M	1%	1/10W						
R1105	1-218-968-11	METAL CHIP	18K	5%	1/16W						
R1106	1-218-969-11	METAL CHIP	22K	5%	1/16W						
R1107	1-218-961-11	METAL CHIP	4.7K	5%	1/16W						
R1108	1-218-965-11	METAL CHIP	10K	5%	1/16W						
R1109	1-218-961-11	METAL CHIP	4.7K	5%	1/16W						

ACCESSORIES AND PACKING

KDL-46NX720 US ONLY




4-272-961-01	BAG, PROTECTION (1650X1200)
X-2580-554-1	CARTON ASSY (SIR 46 US)
4-257-414-11	CUSHION, LOWER(46 EL)
4-268-133-11	CUSHION, SIDE CENTER L (46 EL)
4-268-134-11	CUSHION, SIDE CENTER R (46 EL)
4-268-137-11	CUSHION, TERMINAL
4-257-413-11	CUSHION, UPPER (46 EL)
4-291-502-12	LABEL, ENERGY GUIDE
3-674-673-11	STOPPER (A)
4-268-137-11	TRAY (46 EL-2P)

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
KDL-55NX720 US ONLY							
	4-272-961-01	BAG, PROTECTION (1650X1200)					
	X-2580-558-1	CARTON ASSY (SIR 55 US)					
	4-257-417-11	CUSHION, LOWER(55 EL)					
	4-268-135-11	CUSHION, SIDE CENTER L (55 EL)					
	4-268-136-11	CUSHION, SIDE CENTER R (55 EL)					
	4-268-137-11	CUSHION, TERMINAL					
	4-257-416-11	CUSHION, UPPER (55 EL)					
	4-291-502-32	LABEL, ENERGY GUIDE					
	3-674-673-11	STOPPER (A)					
	4-268-172-11	TRAY (55 EL-2P)					
KDL-60NX720 US ONLY							
	4-272-962-01	BAG, PROTECTION (1900X1400)					
	X-2580-570-1	CARTON ASSY (SIR 60 US)					
	4-268-182-11	CUSHION, LOWER(60 EL)					
	4-268-183-11	CUSHION, SIDE CENTER L (60 EL)					
	4-268-184-11	CUSHION, SIDE CENTER R (60 EL)					
	4-268-137-11	CUSHION, TERMINAL					
	4-268-181-11	CUSHION, UPPER (60 EL)					
	4-291-502-42	LABEL, ENERGY GUIDE					
	3-674-673-11	STOPPER (A)					
	4-268-186-11	TRAY (60 EL-2P)					

APPENDIX A: ENCRYPTION KEY COMPONENTS

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

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

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

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