

SERVICE MANUAL

AZ2-F CHASSIS

<u>MODEL NAME</u>	<u>REMOTE COMMANDER</u>	<u>DESTINATION</u>
KDL-32EX421	RM-YD071	LA
KDL-32EX423	RM-YD071	LA
KDL-32EX520	RM-YD063	MX/LA
KDL-32EX520	RM-YD063	US/CND
KDL-32EX521	RM-YD063	MX/LA
KDL-32EX521	RM-YD063	US/CND
KDL-32EX523	RM-YD063	MX/LA
KDL-32EX523	RM-YD063	US/CND
KDL-40EX520	RM-YD063	MX/LA
KDL-40EX520	RM-YD063	US/CND
KDL-40EX521	RM-YD063	US/CND
KDL-40EX521	RM-YD063	MX/LA
KDL-40EX523	RM-YD063	MX/LA
KDL-40EX523	RM-YD063	US/CND
KDL-46EX520	RM-YD063	MX/LA
KDL-46EX520	RM-YD063	US/CND
KDL-46EX521	RM-YD063	MX/LA
KDL-46EX521	RM-YD063	US/CND
KDL-46EX523	RM-YD063	MX/LA
KDL-46EX523	RM-YD063	US/CND

LEVEL 3
CONFIDENTIAL

CONFIDENTIAL
ELECTRICAL SERVICE MANUAL
INTERNAL ONLY

ORIGINAL MANUAL ISSUE DATE: 1/2011

REVISION DATE

SUBJECT

1/13/2011

No revisions or updates are applicable at this time.

TABLE OF CONTENTS

SECTION TITLE	PAGE
Safety-Related Component Warning	3
Safety Check-Out.....	5
SECTION 1: DIAGRAMS	6
1-1. Circuit Boards Location	6
1-2. Printed Wiring Boards and Schematic Diagrams Information	7
1-3. Block Diagram.....	9
1-4. Schematics and Supporting Information	10
BATV Board Schematic Diagram (1 of 12).....	10
BATV Board Schematic Diagram (2 of 12).....	11
BATV Board Schematic Diagram (3 of 12).....	12
BATV Board Schematic Diagram (4 of 12).....	13
BATV Board Schematic Diagram (5 of 12).....	14
BATV Board Schematic Diagram (6 of 12).....	15
BATV Board Schematic Diagram (7 of 12).....	16
BATV Board Schematic Diagram (8 of 12).....	17
BATV Board Schematic Diagram (9 of 12).....	18
BATV Board Schematic Diagram (10 of 12).....	19
BATV Board Schematic Diagram (11 of 12).....	20
BATV Board Schematic Diagram (12 of 12).....	21
GE2A Board Schematic Diagram (KDL-32EX421/32EX423/32EX520/32EX521/32EX523 ONLY).....	24
GE3A Board Schematic Diagram (All Except 32" Models).....	27
HLR2 Board Schematic Diagram	28
HMS3 Board Schematic Diagram	30
SECTION 2: ELECTRICAL PARTS LIST	32
APPENDIX A: ENCRYPTION KEY COMPONENTS	A-1

SAFETY-RELATED COMPONENT WARNING

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

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

USE CAUTION WHEN HANDLING THE LCD PANEL

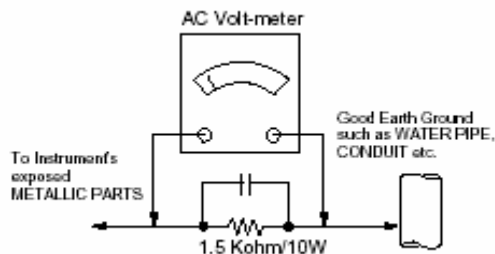
When repairing the LCD panel, be sure you are grounded by using a wrist band.

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

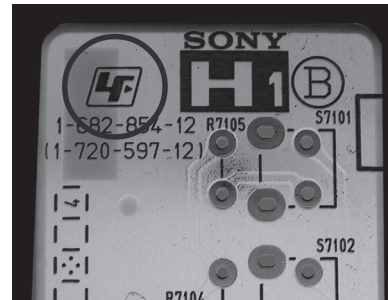
To avoid damaging the LCD panel:

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

LEAKAGE CURRENT HOT CHECK CIRCUIT



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.

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

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

How to Find a Good Earth Ground

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

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

Leakage Test

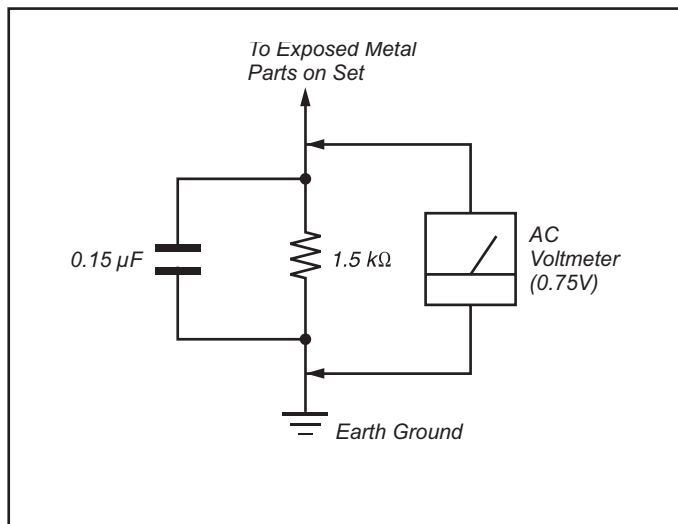


Figure A. Using an AC voltmeter to check AC leakage.

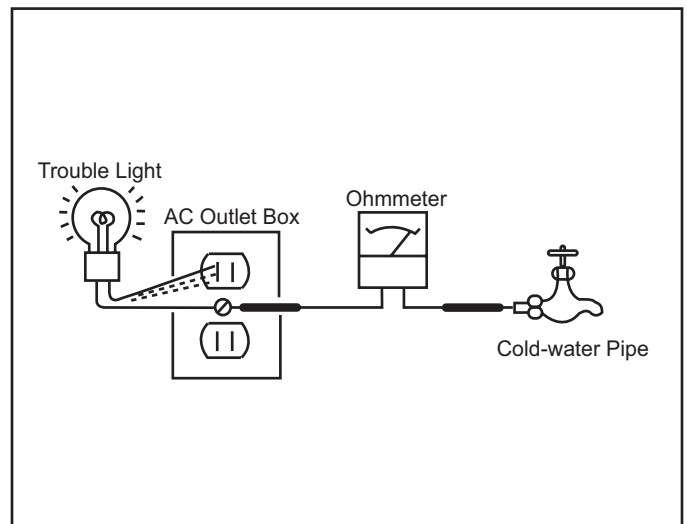


Figure B. Checking for earth ground.

SECTION 1: DIAGRAMS

1-1. CIRCUIT BOARDS LOCATION

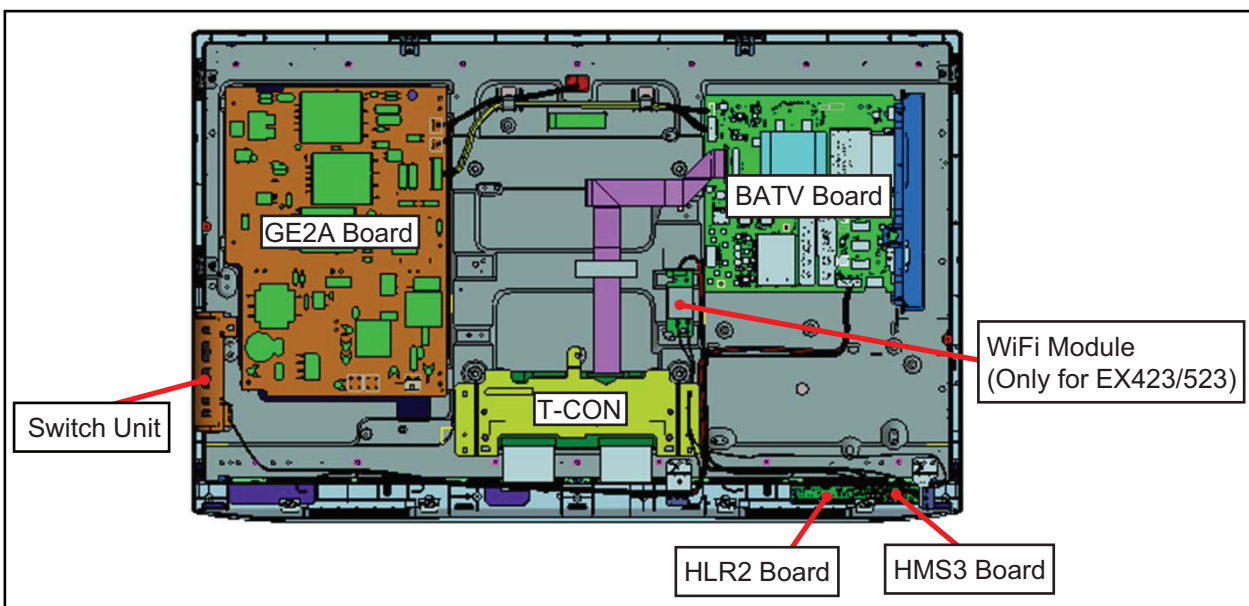


Figure 1-1. KDL-32EX421/32EX423/32EX520/32EX521/32EX523

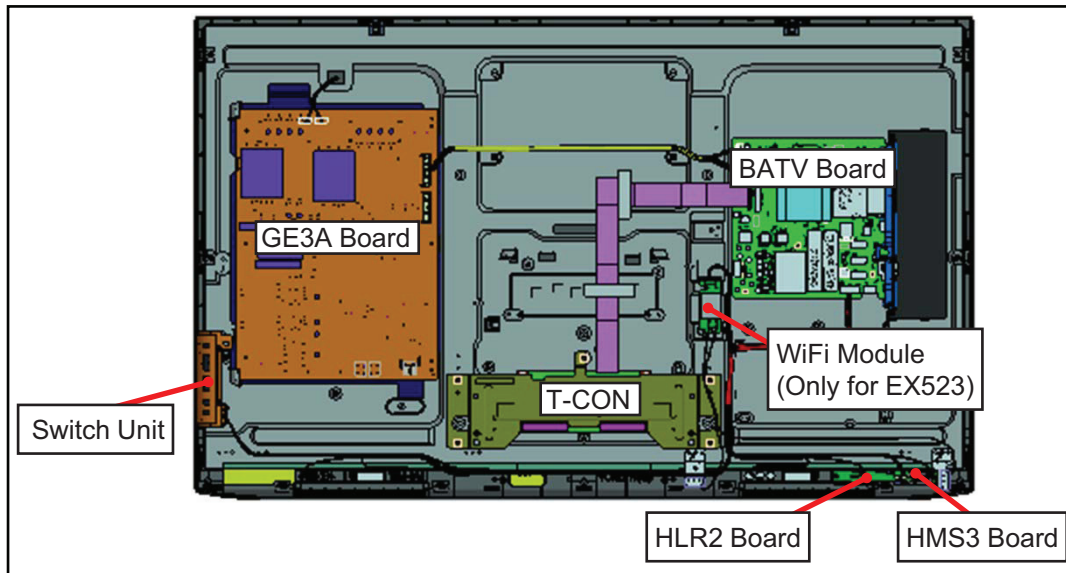


Figure 1-2. KDL-40EX520/40EX521/40EX523

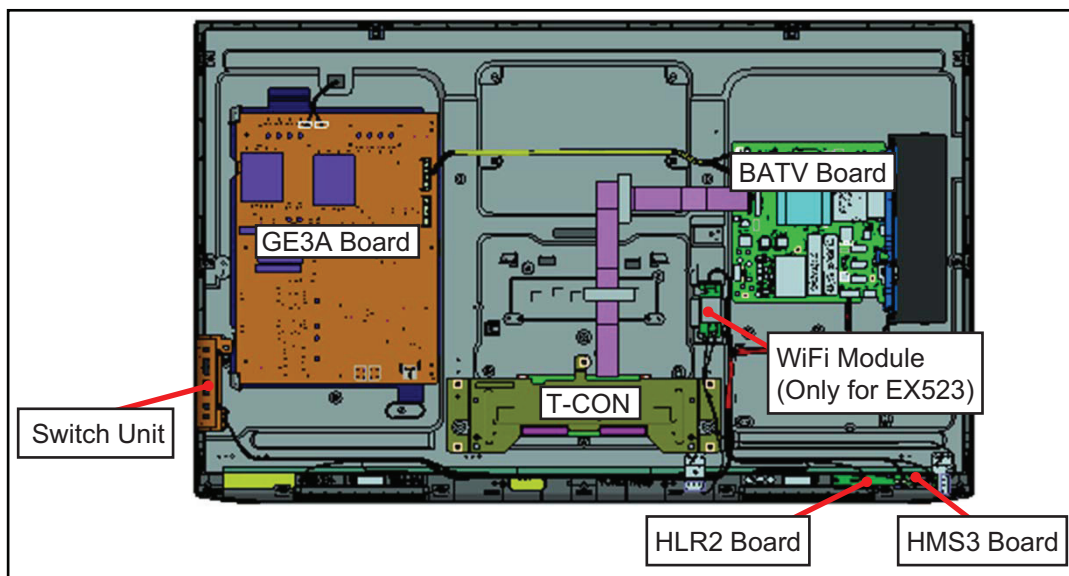


Figure 1-3. KDL-46EX520/46EX521/46EX523

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 : $\frac{1}{4}$

W

$\frac{1}{4}$ W in resistance, $\frac{1}{10}$ W and $\frac{1}{16}$ 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 $10\text{M}\Omega$ 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 are critical for safety. Replace only with part number specified.

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

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

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

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

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

REFERENCE INFORMATION

RESISTOR

: RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON

: FUSE NONFLAMMABLE FUSIBLE

: RW NONFLAMMABLE WIREWOUND

: RS NONFLAMMABLE METAL OXIDE

: RB NONFLAMMABLE CEMENT

: ※ ADJUSTMENT RESISTOR

COIL

: LF-8L MICRO INDUCTOR

CAPACITOR

: TA TANTALUM

: PS STYROL

: PP POLYPROPYLENE

: PT MYLAR

: MPS METALIZED POLYESTER

: MPP METALIZED POLYPROPYLENE

: ALB BIPOLAR

: ALT HIGH TEMPERATURE

: ALR HIGH RIPPLE

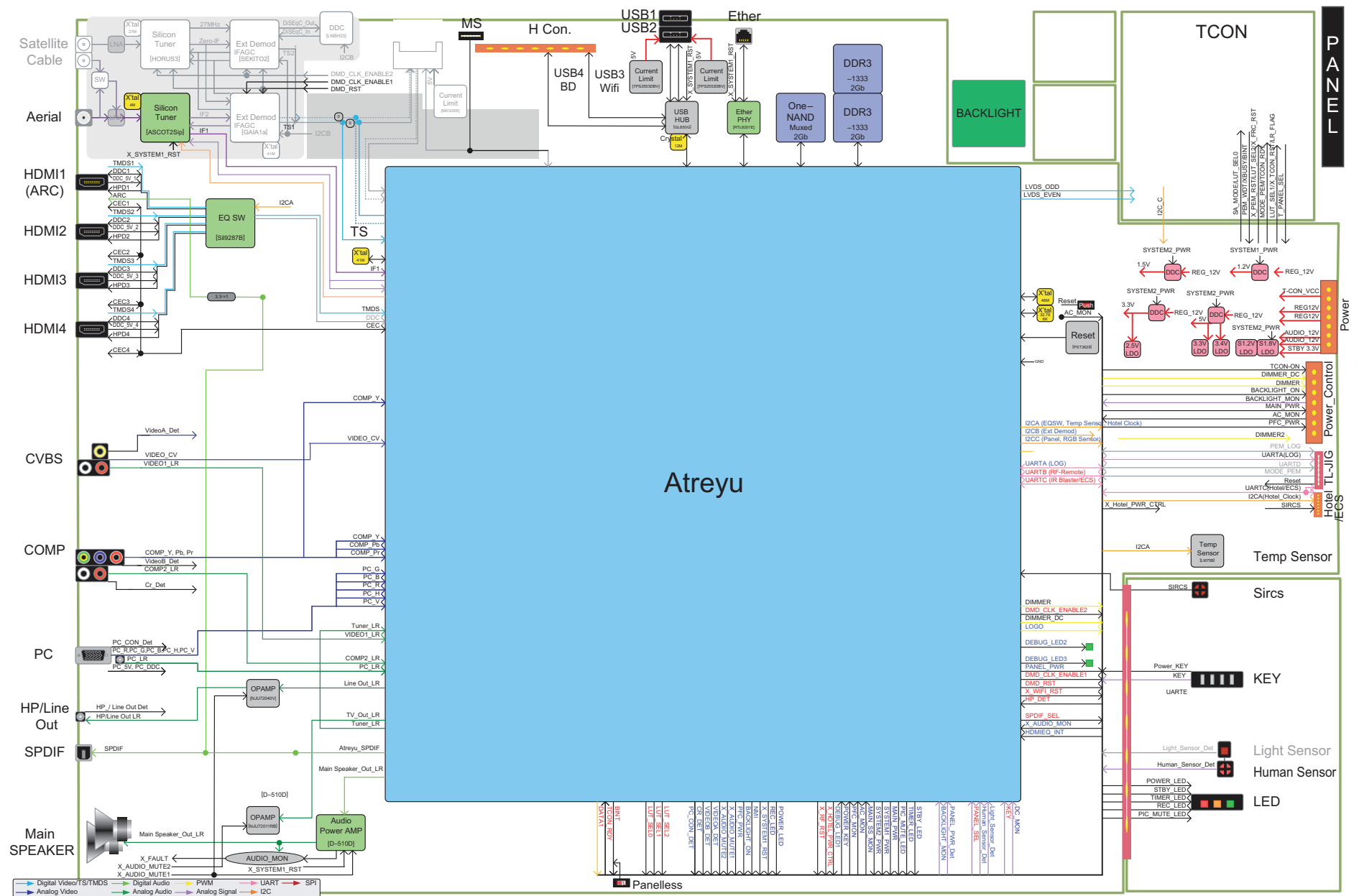
Terminal name of semiconductors in silk screen
printed circuit (※)

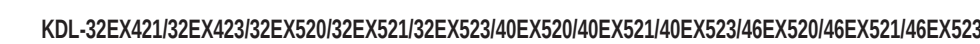
	Device	Printed symbol	Terminal name	Circuit
1	Transistor		Collector Base Emitter	
2	Transistor		Collector Base Emitter	
3	Diode		Cathode Anode	
4	Diode		Cathode Anode (NC)	
5	Diode		Cathode Anode (NC)	
6	Diode		Common Anode Cathode	
7	Diode		Common Anode Cathode	
8	Diode		Common Anode Anode	
9	Diode		Common Anode Anode	
10	Diode		Common Cathode Cathode	
11	Diode		Common Cathode Cathode	
12	Diode		Anode Cathode Anode Cathode	
13	Transistor (FET)		Drain 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.)

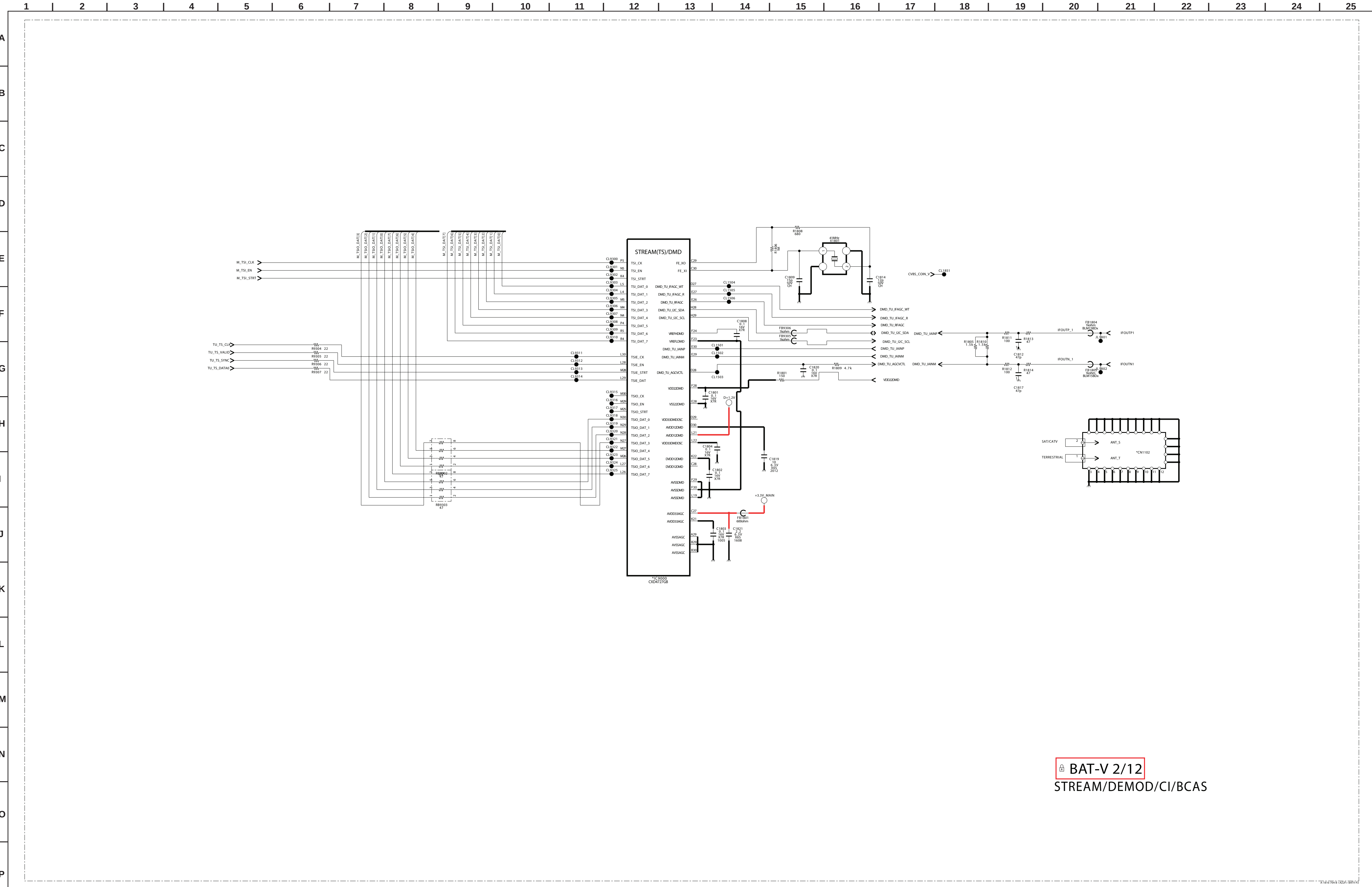
Ver.1.0

1-3. BLOCK DIAGRAM

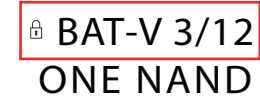


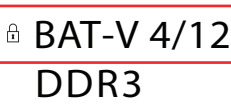


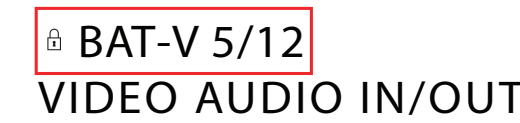
BATV BOARD SCHEMATIC DIAGRAM (2 OF 12)



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







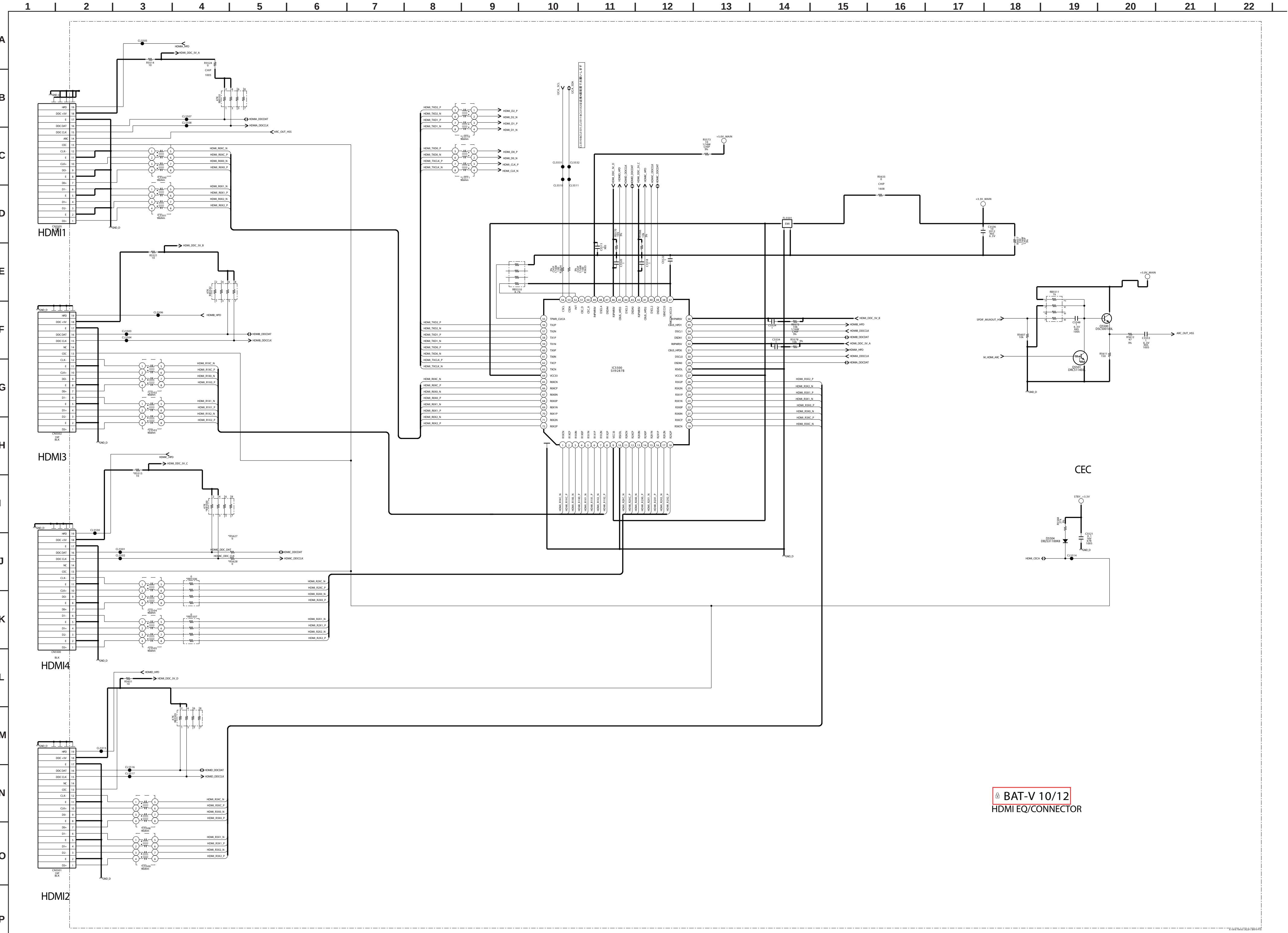






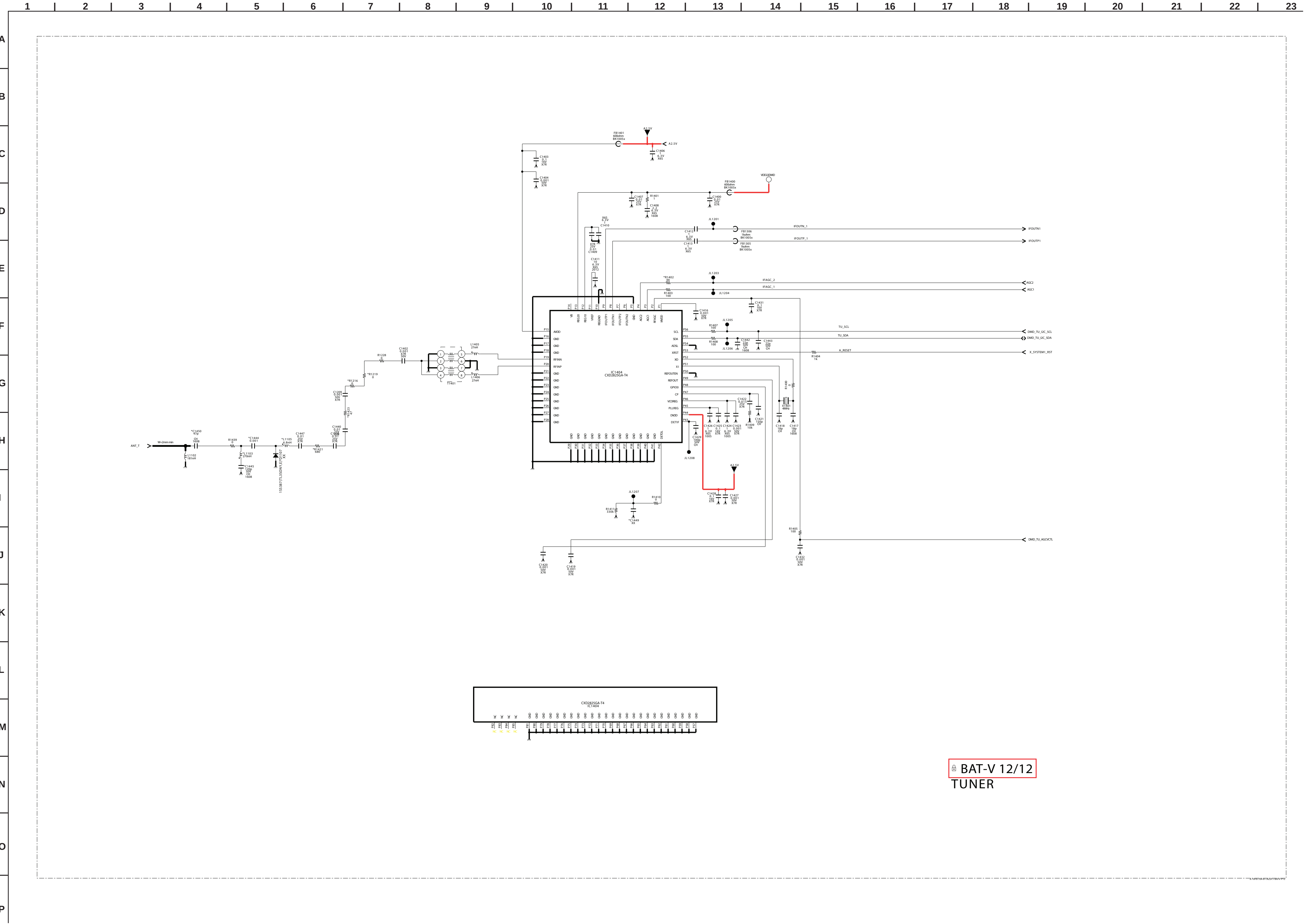


BATV BOARD SCHEMATIC DIAGRAM (10 OF 12)



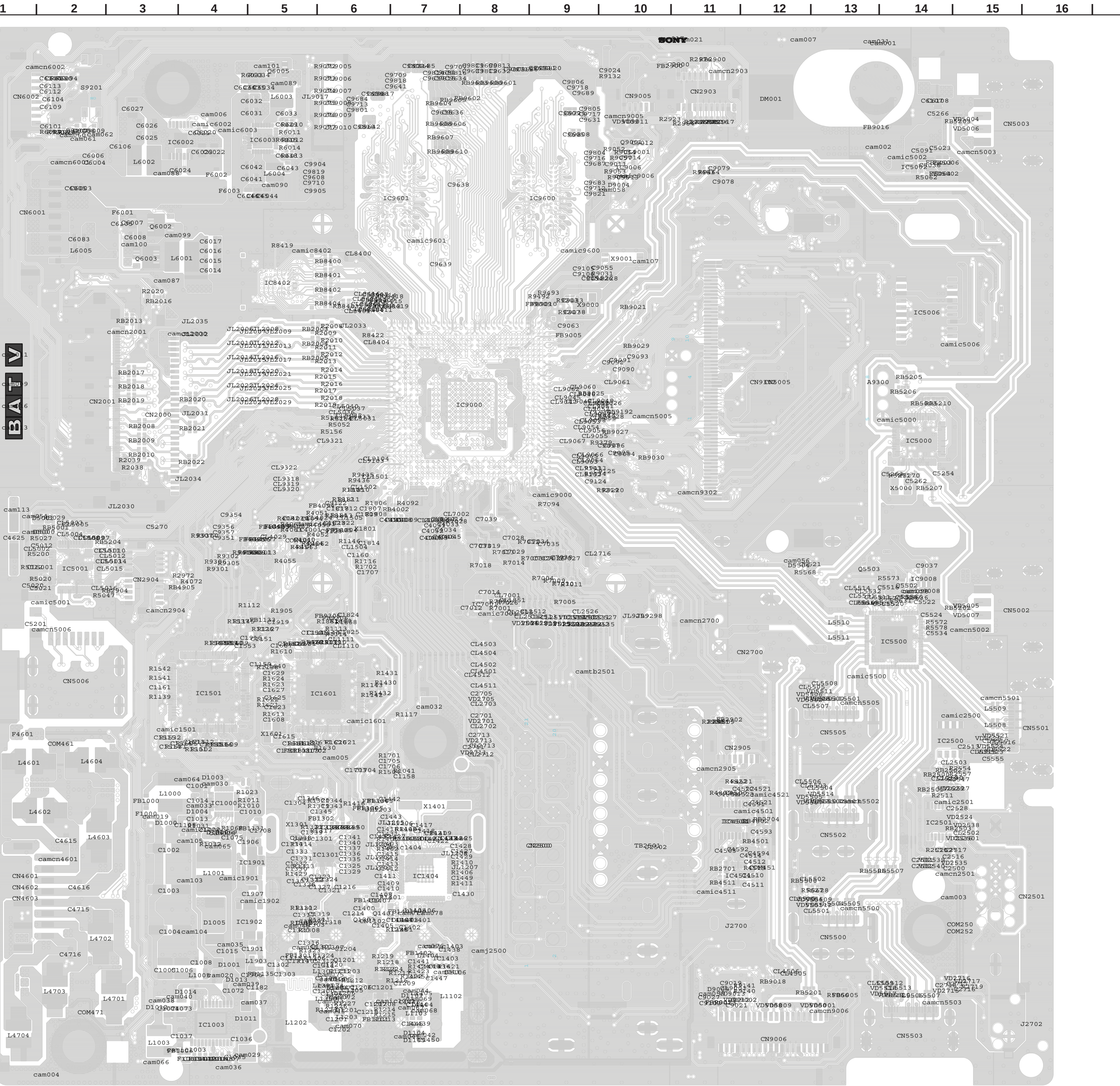


BATV BOARD SCHEMATIC DIAGRAM (12 OF 12)



BAT-V 12/12
TUNER

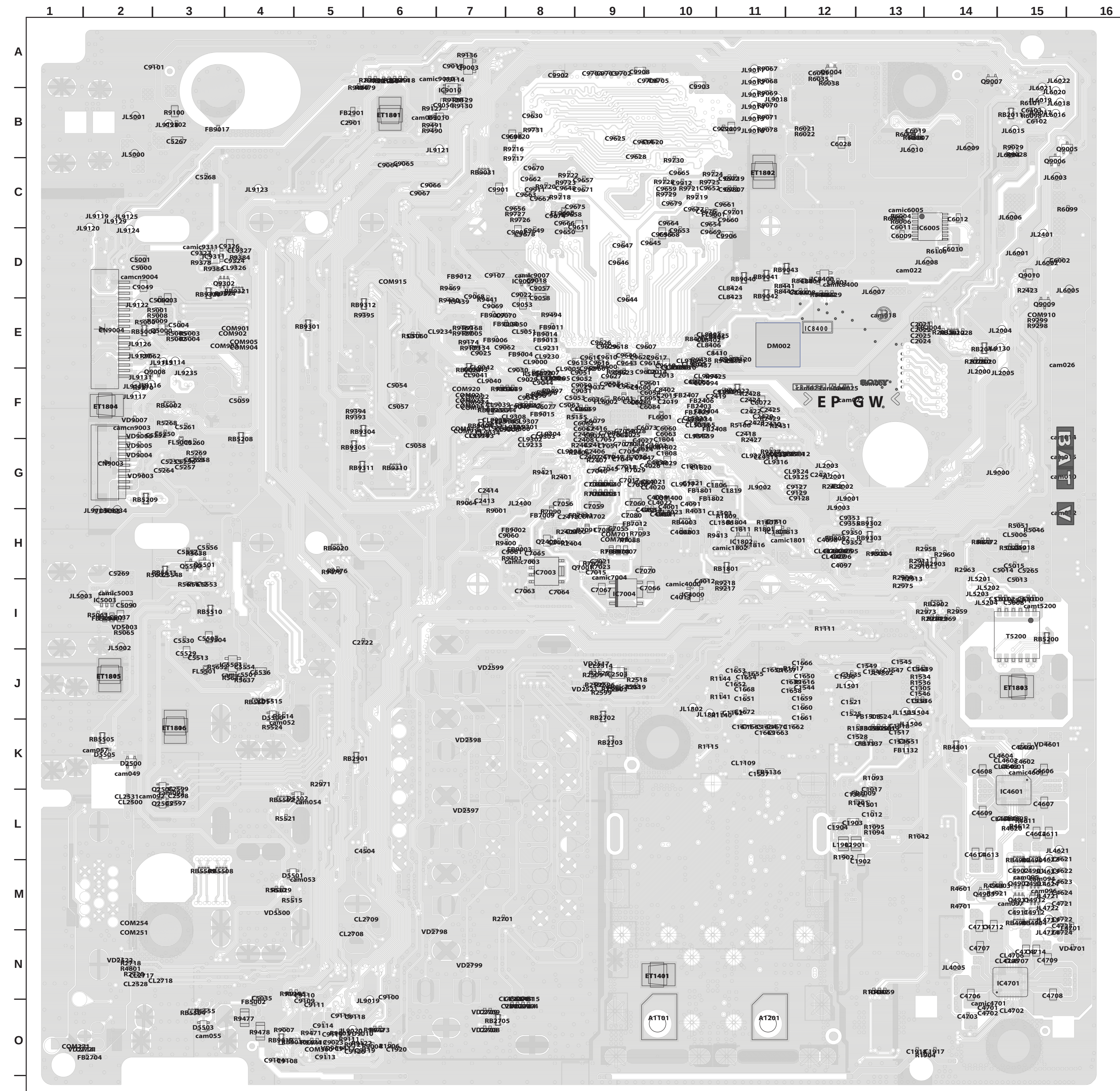
COMPONENT SIDE



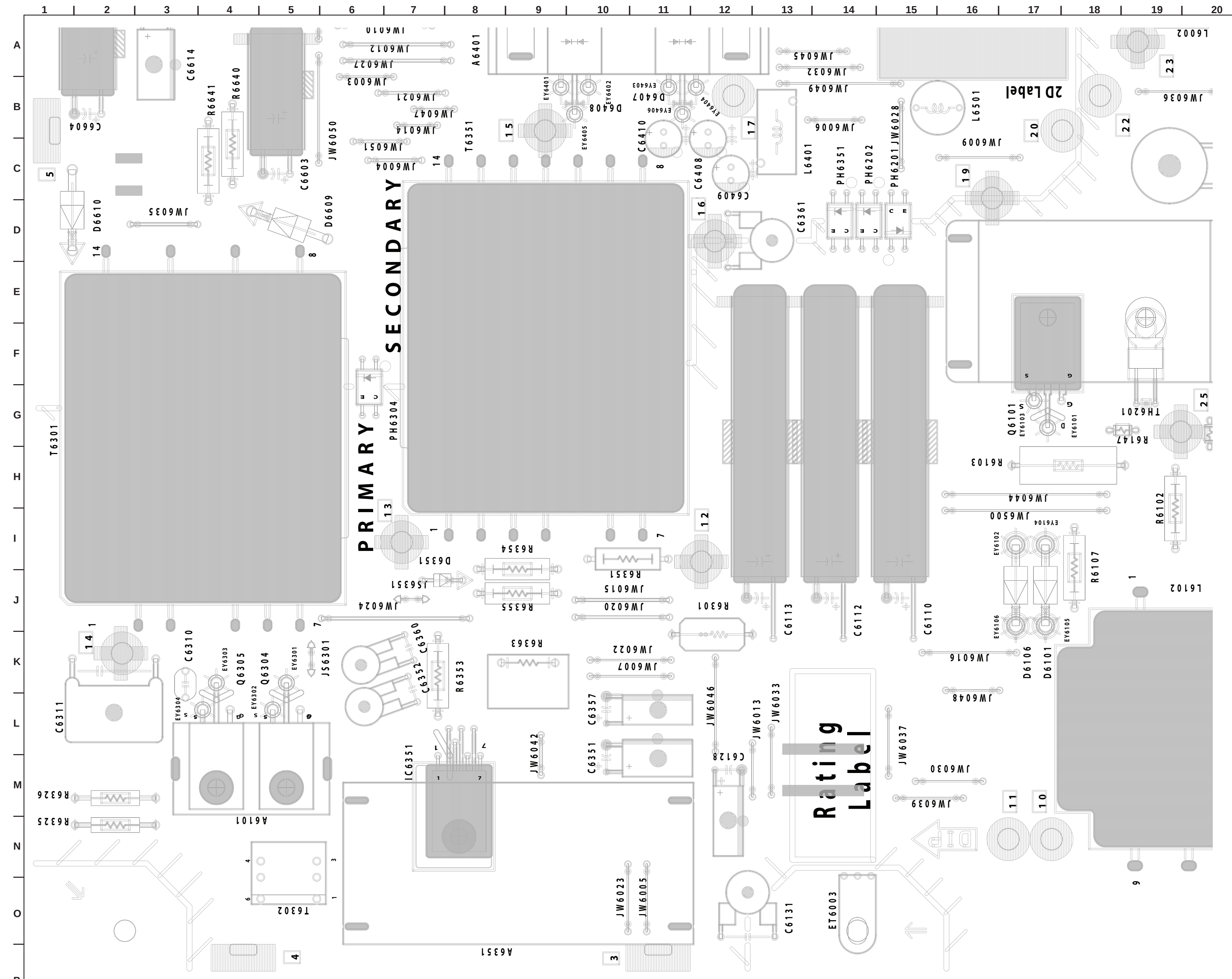
BATV

[SYSTEM/STREAM/DEMOC/IC/BCAS/ONE NAND/DDR3/VIDEO AUDIO IN/OUT/ETHERNET/USB/POWER/GND/HDMI/LVDS/PANEL/AV CONNECTOR/HDMI EQ/CONNECTOR/AUDIO AMP/TUNER]

CONDUCTOR SIDE



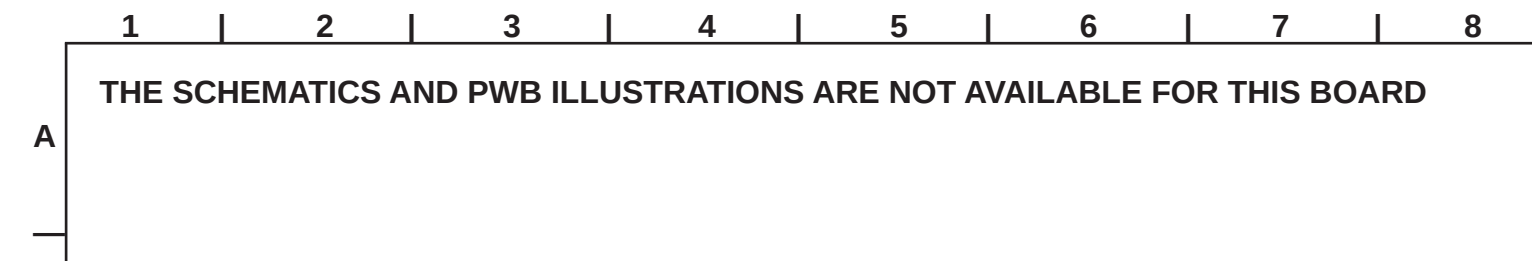




CONDUCTOR SIDE (KDL-32EX421/32EX423/32EX520/32EX521/32EX523 ONLY)



GE3A BOARD SCHEMATIC DIAGRAM (ALL EXCEPT 32" MODELS)

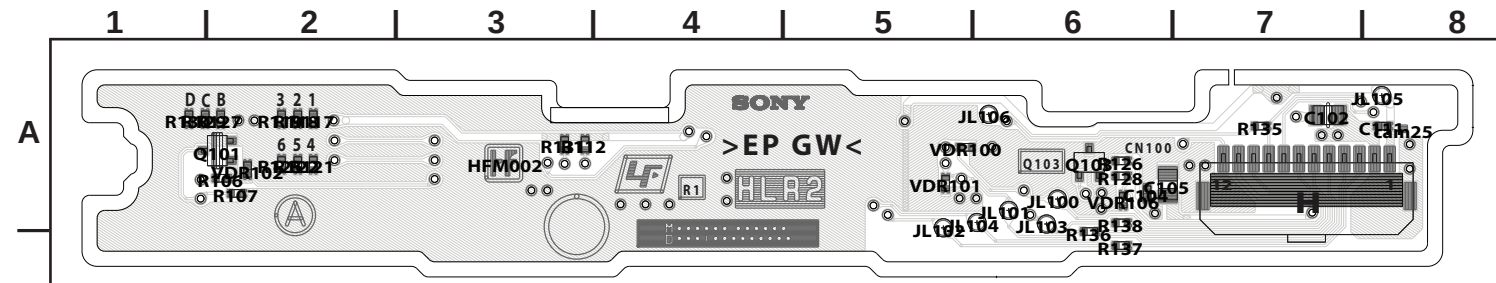




HLR2

[IR/LED/SENSOR]

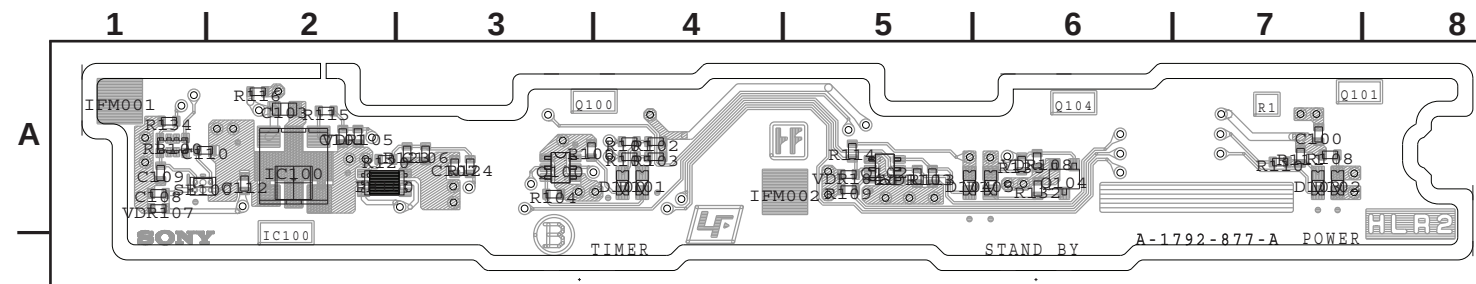
COMPONENT SIDE



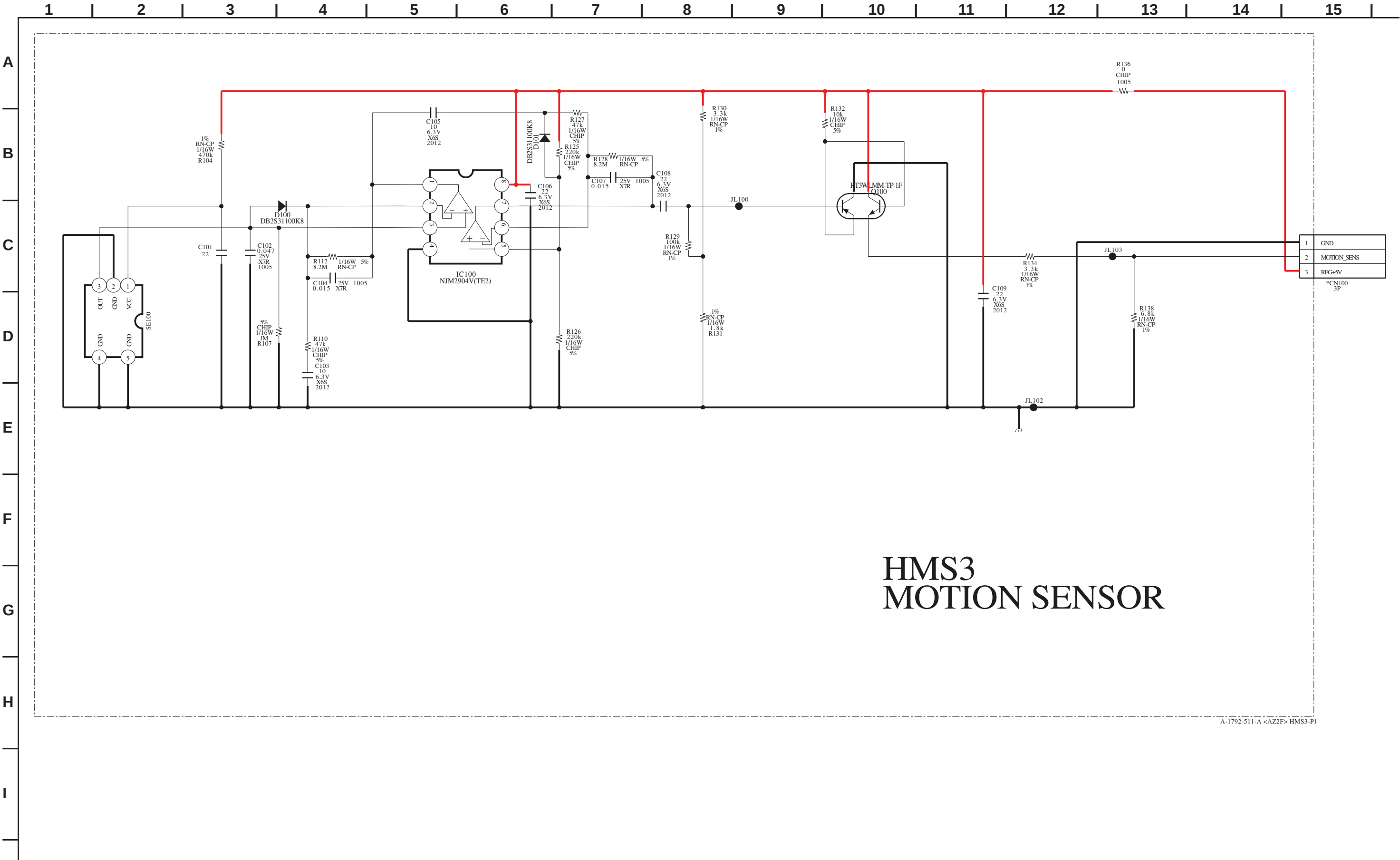
HLR2

[IR/LED/SENSOR]

CONDUCTOR SIDE



HMS3 BOARD SCHEMATIC DIAGRAM

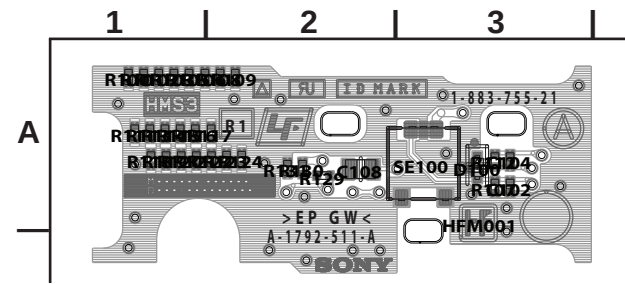


A-1792-511-A <AZ2F> HMS3-P1

HMS3

[MOTION SENSOR]

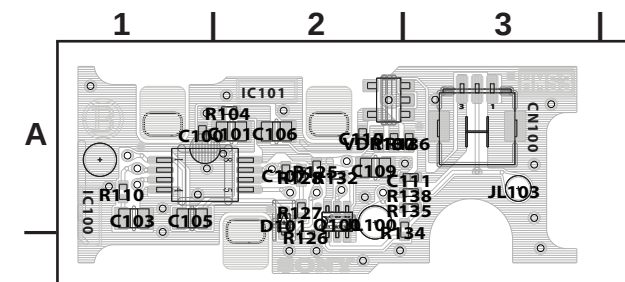
COMPONENT SIDE



HMS3

[MOTION 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 identifiés par un trame et une marque  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  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.

BATV

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
				C1419	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
 A-1816-705-B BATV BOARD, COMPLETE (KDL-32EX421/32EX423 ONLY)				C1420	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
 A-1807-978-B BATV BOARD, COMPLETE (ALL EXCEPT KDL-32EX421/32EX423)				C1421	1-164-878-11	CERAMIC CHIP	150pF 5% 50V
* 4-194-050-21 COVER				C1422	1-114-807-11	CERAMIC CHIP	0.015μF 10% 25V
NOTE: For BATV Board replacement, please refer to the Service Manual for these models.				C1423	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
NOTE: Final software is not installed on this BATV Board. Install the latest update after replacing this board using the instructions provided with the software.				C1424	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
CAPACITOR				C1425	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
C1139	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1426	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
C1140	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	C1427	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C1158	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1428	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
C1160	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	C1429	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C1209	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1431	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
C1400	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V	C1432	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C1402	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1436	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C1403	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V	C1440	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C1404	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1442	1-162-919-11	CERAMIC CHIP	22pF 5% 50V
C1406	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	C1443	1-164-858-11	CERAMIC CHIP	22pF 5% 50V
C1407	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V	C1444	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C1408	1-114-869-11	CERAMIC CHIP	2.2μF 10% 6.3V	C1445	1-162-928-11	CERAMIC CHIP	120pF 5% 50V
C1409	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V	C1447	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C1410	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	C1449	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V
C1411	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V	C1450	1-162-923-11	CERAMIC CHIP	47pF 5% 50V
C1412	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	C1551	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V
C1413	1-114-130-11	CERAMIC CHIP	1μF 10% 6.3V	C1707	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
C1416	1-100-905-11	CERAMIC CHIP	0.001μF 10% 50V	C1708	1-112-777-11	CERAMIC CHIP	0.01μF 10% 25V
C1417	1-162-918-11	CERAMIC CHIP	18pF 5% 50V	C1801	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
C1418	1-164-856-81	CERAMIC CHIP	18pF 5% 50V	C1802	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
				C1803	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
				C1804	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
				C1808	1-100-916-11	CERAMIC CHIP	0.1μF 10% 16V
				C1809	1-164-854-11	CERAMIC CHIP	15pF 5% 50V
				C1812	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
				C1814	1-164-852-11	CERAMIC CHIP	12pF 5% 50V
				C1817	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
				C1819	1-100-909-11	CERAMIC CHIP	10μF 10% 6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C1820	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C4041	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C1821	1-114-869-11	CERAMIC CHIP	2.2μF	10%	6.3V	C4043	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C1902	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C4044	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C1903	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C4045	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C1906	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C4046	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2013	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C4500	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2014	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C4501	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2019	1-114-869-11	CERAMIC CHIP	2.2μF	10%	6.3V	* C4503	1-116-720-11	CERAMIC CHIP	10μF	20%	6.3V
C2020	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C4504	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2022	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C4522	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2400	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C4593	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V
C2401	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V	C4594	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V
C2406	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V	C4601	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2407	1-164-878-11	CERAMIC CHIP	150pF	5%	50V	C4602	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2408	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	* C4606	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2409	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	* C4608	1-116-716-11	CERAMIC CHIP	10μF	10%	16V
C2410	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C4611	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2411	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C4612	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2412	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C4613	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2414	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C4614	1-114-329-11	CERAMIC CHIP	0.47μF	10%	50V
C2416	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5008	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2513	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C5011	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C2517	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C5019	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2527	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C5021	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C2528	1-164-874-11	CERAMIC CHIP	100pF	5%	50V	C5023	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C2708	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C5036	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C2709	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C5037	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C2722	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C5201	1-114-472-91	CERAMIC CHIP	0.001μF	10%	2KV
C4000	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5252	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4001	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5262	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C4002	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5263	1-164-852-11	CERAMIC CHIP	12pF	5%	50V
C4003	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5265	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4008	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5267	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C4009	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5515	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4010	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5518	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4011	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5520	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4012	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5521	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C4013	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C5522	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4027	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C5524	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4030	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C5534	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4031	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C5536	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C4032	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C5548	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4033	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C5553	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C4034	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C6004	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C4039	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	* C6007	1-116-716-11	CERAMIC CHIP	10μF	10%	16V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
* C6008	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7015	1-164-845-11	CERAMIC CHIP	5pF	0.25pF	50V
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	C7019	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	C7024	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V
C6015	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7026	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6016	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7027	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
C6020	1-114-813-11	CERAMIC CHIP	1μF	10%	16V	C7030	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6021	1-114-802-11	CERAMIC CHIP	0.0033μF	10%	50V	C7033	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
* C6022	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7034	1-112-780-11	CERAMIC CHIP	0.47μF	10%	16V
* C6023	1-116-716-11	CERAMIC CHIP	10μF	10%	16V	C7035	1-114-326-11	CERAMIC CHIP	0.22μF	10%	25V
C6024	1-114-325-11	CERAMIC CHIP	0.1μF	10%	25V	C7038	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	C7054	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6044	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7055	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6045	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C7056	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6055	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7059	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6059	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7060	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C6060	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7064	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6062	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7066	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V
C6063	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7079	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6067	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7080	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C6069	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C7082	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6071	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C7083	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6072	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7084	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6077	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C7085	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V
C6079	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C8401	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6080	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C8402	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6083	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	C8404	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6084	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C8407	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C6101	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C8408	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C6102	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C8410	1-114-869-11	CERAMIC CHIP	2.2μF	10%	6.3V
C6103	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9011	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C6104	1-114-331-11	CERAMIC CHIP	4.7μF	10%	10V	C9014	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V
C6111	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9018	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
C9019	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C9622	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9021	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C9623	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9022	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V	C9624	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9031	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9625	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9032	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9626	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9033	1-164-848-11	CERAMIC CHIP	8pF	0.50pF	50V	C9627	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9037	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9628	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9038	1-164-848-11	CERAMIC CHIP	8pF	0.50pF	50V	C9629	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9042	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9638	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9043	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9639	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
* C9052	1-116-720-11	CERAMIC CHIP	10μF	20%	6.3V	C9640	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9054	1-164-852-11	CERAMIC CHIP	12pF	5%	50V	C9643	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C9055	1-164-850-11	CERAMIC CHIP	10pF	0.50pF	50V	C9644	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9058	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C9645	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9060	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9646	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9061	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9647	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9062	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9649	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9064	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9650	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9065	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9651	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C9066	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9653	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9067	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9657	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9068	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9662	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9069	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V	C9663	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9078	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9664	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9079	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9665	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9120	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9667	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9121	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9668	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9122	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9669	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9123	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9670	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9124	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9671	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9125	1-164-858-11	CERAMIC CHIP	22pF	5%	50V	C9672	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9600	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C9673	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9601	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C9677	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9602	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V	C9678	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9603	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9679	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9607	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9708	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C9611	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9712	1-112-777-11	CERAMIC CHIP	0.01μF	10%	25V
C9612	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9819	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C9613	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	C9820	1-100-905-11	CERAMIC CHIP	0.001μF	10%	50V
C9615	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9906	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V
C9616	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9911	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9617	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V	C9912	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V
C9618	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V						
C9619	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V						
C9621	1-100-916-11	CERAMIC CHIP	0.1μF	10%	16V						



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES	
<u>CONNECTOR</u>				FB4095	1-469-084-21	FERRITE	0MH	
				FB4096	1-469-084-21	FERRITE	0MH	
CN2000	1-842-088-11	30PIN CONNECTOR		FB4097	1-469-084-21	FERRITE	0MH	
CN2501	1-842-670-11	D SUB CONNECTOR	15P	FB4098	1-469-084-21	FERRITE	0MH	
CN2700	1-842-575-11	OPTICAL OUT CONNECTOR		FB4099	1-469-084-21	FERRITE	0MH	
CN5002	1-842-667-11	USB CONNECTOR		FB5002	1-481-517-11	FERRITE	0μH	
CN5003	1-842-667-11	USB CONNECTOR		FB5003	1-216-864-11	SHORT CHIP		
CN5006	1-842-600-11	ETHERNET CONNECTOR		FB5004	1-216-864-11	SHORT CHIP		
* CN5500	1-842-681-11	HDMI CONNECTOR		FB9001	1-481-517-11	FERRITE	0μH	
* CN5501	1-842-680-11	HDMI CONNECTOR		FB9002	1-469-084-21	FERRITE	0MH	
* CN5502	1-842-681-11	HDMI CONNECTOR		FB9003	1-469-084-21	FERRITE	0MH	
* CN5505	1-842-681-11	HDMI CONNECTOR		FB9004	1-469-084-21	FERRITE	0MH	
CN6002	1-819-452-11	HEADER ASSEMBLY FOR PWB		FB9005	1-469-084-21	FERRITE	0MH	
* CN9003	1-818-808-51	CONNECTOR, FFC/FPC 10P		FB9006	1-469-084-21	FERRITE	0MH	
<u>DIODE</u>				FB9007	1-469-084-21	FERRITE	0MH	
D1107	6-502-470-01	DIODE	1SS387	FB9008	1-469-084-21	FERRITE	0MH	
D2500	6-502-979-01	DIODE	DA4J104K0L	FB9009	1-469-084-21	FERRITE	0MH	
D5504	6-502-934-01	DIODE	DB2S31100K8	FB9010	1-469-084-21	FERRITE	0MH	
D9004	8-719-027-76	DIODE	1SS357	FB9011	1-469-084-21	FERRITE	0MH	
<u>FUSE</u>				FB9012	1-469-084-21	FERRITE	0MH	
F4601	1-576-933-31	FUSE	5A	24V	FB9013	1-469-084-21	FERRITE	0MH
F6001	1-576-850-31	FUSE	3.15A	24V	FB9014	1-469-084-21	FERRITE	0MH
F6002	1-576-850-31	FUSE	3.15A	24V	FB9015	1-469-084-21	FERRITE	0MH
F6003	1-576-850-31	FUSE	3.15A	24V	FB9016	1-218-990-81	SHORT CHIP	
<u>FERRITE BEAD</u>				FB9305	1-469-084-21	FERRITE	0MH	
FB1107	1-400-693-21	FERRITE	0μH	FB9306	1-469-084-21	FERRITE	0MH	
FB1131	1-481-466-11	FERRITE	0μH	<u>FILTER</u>				
FB1132	1-481-466-11	FERRITE	0μH	FL5000	1-234-939-21	FILTER, EMI REMOVAL (SMD)		
FB1305	1-469-084-21	FERRITE	0MH	FL5501	1-234-939-21	FILTER, EMI REMOVAL (SMD)		
FB1306	1-469-084-21	FERRITE	0MH	FL9600	1-234-939-21	FILTER, EMI REMOVAL (SMD)		
				FL9601	1-234-939-21	FILTER, EMI REMOVAL (SMD)		
FB1400	1-400-693-21	FERRITE	0μH	<u>IC</u>				
FB1401	1-400-808-21	FERRITE	0μH	* IC1404	8-753-372-57	IC	CXD2825GA-T4	
FB1801	1-400-808-21	FERRITE	0μH	IC2500	6-710-820-01	IC	S-24CS02AFJ-TB-G	
FB1804	1-469-084-21	FERRITE	0MH	IC2501	6-708-132-01	IC	74LVC14APW	
FB1805	1-469-084-21	FERRITE	0MH	IC4000	6-714-893-01	IC	RP130N331D-TR-F	
FB2004	1-481-517-11	FERRITE	0μH	* IC4502	8-753-363-51	IC	CXA3815N-T4	
FB2403	1-469-084-21	FERRITE	0MH	* IC4601	6-716-811-01	IC	YDA164B-QZE2	
FB2404	1-469-084-21	FERRITE	0MH	* IC5000	6-717-000-01	IC	GL850G-MNG21	
FB2405	1-469-084-21	FERRITE	0MH	* IC5001	6-717-001-01	IC	RTL8201ES-VE-GRT	
FB2406	1-469-084-21	FERRITE	0MH	IC5002	6-715-164-01	IC	TPS2553DBVR	
FB2407	1-469-084-21	FERRITE	0MH	IC5003	6-715-164-01	IC	TPS2553DBVR	
FB2408	1-469-084-21	FERRITE	0MH					
FB4094	1-469-084-21	FERRITE	0MH					



REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
* IC6002	6-716-852-01	IC	TPS54425PWPR	TRANSISTOR			
* IC6003	6-716-892-01	IC	BD95830MUV-E2	Q5500	6-552-408-01	TRANSISTOR	DSC500100L
* IC6005	6-716-890-01	IC	TPS53114APWR	Q5501	6-552-430-01	TRANSISTOR	DRC5114E0L
* IC8400	6-715-859-01	IC	MM3464A18NRE	* Q6002	6-552-739-01	TRANSISTOR	RP1E070XNFpFTCR
* IC8402	6-716-980-01	IC	TC58RYG1S8EBAIA	* Q6003	6-552-740-01	TRANSISTOR	RP1E090XNFpFTCR
IC9007	6-714-506-01	IC	MM3404A12URE	Q7001	6-552-408-01	TRANSISTOR	DSC500100L
* IC9008	6-716-843-01	IC	MM3285FNRE	Q9008	6-552-410-01	TRANSISTOR	DRA5114E0L
* IC9600	6-716-964-01	IC	K4B2G1646C-HCH9	RESISTOR			
* IC9601	6-716-964-01	IC	K4B2G1646C-HCH9	R1041	1-218-965-11	METAL CHIP	10K 5% 1/16W
JACK				R1113	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
J2500	1-842-665-11	PIN	JACK 3P	R1114	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
J2502	1-842-663-11	PIN	JACK 5P	R1117	1-218-990-81	SHORT CHIP	
J2700	1-842-577-11	MINI	JACK (ST)	R1146	1-218-957-11	METAL CHIP	2.2K 5% 1/16W
J2702	1-842-573-11	HP	JACK	R1216	1-218-990-81	SHORT CHIP	
COIL				R1219	1-218-990-81	SHORT CHIP	
* L1102	1-460-364-11	AIR	CORE COIL	R1228	1-218-990-81	SHORT CHIP	
* L1103	1-481-341-21	INDUCTOR	270NH	R1400	1-218-990-81	SHORT CHIP	
L1105	1-218-990-81	SHORT CHIP		R1401	1-242-967-11	METAL CHIP	1 5% 1/16W
L1405	1-414-845-21	INDUCTOR	27NH	R1402	1-218-941-81	METAL CHIP	100 5% 1/16W
L1406	1-414-845-21	INDUCTOR	27NH	R1403	1-218-941-81	METAL CHIP	100 5% 1/16W
L1901	1-400-788-21	INDUCTOR	1μH	R1404	1-218-953-11	METAL CHIP	1K 5% 1/16W
* L4601	1-460-357-11	INDUCTOR	3.3μH	R1405	1-218-941-81	METAL CHIP	100 5% 1/16W
* L4602	1-460-357-11	INDUCTOR	3.3μH	R1407	1-218-941-81	METAL CHIP	100 5% 1/16W
* L4603	1-460-357-11	INDUCTOR	3.3μH	R1408	1-218-941-81	METAL CHIP	100 5% 1/16W
* L4604	1-460-357-11	INDUCTOR	3.3μH	R1409	1-218-965-11	METAL CHIP	10K 5% 1/16W
L5500	1-457-539-11	INDUCTOR	0μH	R1410	1-218-990-81	SHORT CHIP	
L5501	1-457-539-11	INDUCTOR	0μH	R1411	1-218-983-11	METAL CHIP	330K 5% 1/16W
L5502	1-457-539-11	INDUCTOR	0μH	R1421	1-218-990-81	SHORT CHIP	
L5503	1-457-539-11	INDUCTOR	0μH	R1423	1-218-990-81	SHORT CHIP	
L5504	1-457-539-11	INDUCTOR	0μH	R1439	1-216-864-11	SHORT CHIP	
L5505	1-457-539-11	INDUCTOR	0μH	R1701	1-218-969-11	METAL CHIP	22K 5% 1/16W
L5508	1-457-539-11	INDUCTOR	0μH	R1702	1-218-965-11	METAL CHIP	10K 5% 1/16W
L5509	1-457-539-11	INDUCTOR	0μH	R1801	1-218-943-11	METAL CHIP	150 5% 1/16W
L5510	1-457-539-11	INDUCTOR	0μH	R1805	1-218-955-11	METAL CHIP	1.5K 5% 1/16W
L5511	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
				R1813	1-218-937-11	METAL CHIP	47 5% 1/16W
				R1814	1-218-937-11	METAL CHIP	47 5% 1/16W
				R2020	1-218-965-11	METAL CHIP	10K 5% 1/16W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2035	1-218-990-81	SHORT CHIP				R5515	1-218-929-11	METAL CHIP	10	5%	1/16W
R2039	1-218-990-81	SHORT CHIP				R5521	1-218-929-11	METAL CHIP	10	5%	1/16W
R2401	1-218-973-11	METAL CHIP	47K	5%	1/16W	R5524	1-218-990-81	SHORT CHIP			
R2404	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	R5566	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2405	1-250-495-11	METAL CHIP	1K	1%	1/16W	R5568	1-218-970-11	METAL CHIP	27K	5%	1/16W
R2406	1-250-495-11	METAL CHIP	1K	1%	1/16W	R5570	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2407	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	R5572	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2427	1-208-859-81	METAL CHIP	68	0.50%	1/16W	R5573	1-218-929-11	METAL CHIP	10	5%	1/16W
R2428	1-218-945-11	METAL CHIP	220	5%	1/16W	R5578	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2429	1-218-990-81	SHORT CHIP				R5607	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2430	1-218-990-81	SHORT CHIP				R5611	1-218-943-11	METAL CHIP	150	5%	1/16W
R2431	1-218-945-11	METAL CHIP	220	5%	1/16W	R5612	1-218-937-11	METAL CHIP	47	5%	1/16W
R2432	1-218-945-11	METAL CHIP	220	5%	1/16W	R5627	1-218-990-81	SHORT CHIP			
R2533	1-218-990-81	SHORT CHIP				R5628	1-218-990-81	SHORT CHIP			
R2534	1-218-990-81	SHORT CHIP				R5631	1-218-929-11	METAL CHIP	10	5%	1/16W
R2535	1-218-990-81	SHORT CHIP				R5633	1-216-864-11	SHORT CHIP			
R2554	1-218-977-11	METAL CHIP	100K	5%	1/16W	R5634	1-218-941-81	METAL CHIP	100	5%	1/16W
R2599	1-218-990-81	SHORT CHIP				R5635	1-218-941-81	METAL CHIP	100	5%	1/16W
R2701	1-218-990-81	SHORT CHIP				R5637	1-218-947-11	METAL CHIP	330	5%	1/16W
R2718	1-218-953-11	METAL CHIP	1K	5%	1/16W	* R6004	1-250-509-11	METAL CHIP	3.9K	1%	1/16W
R4050	1-218-945-11	METAL CHIP	220	5%	1/16W	* R6005	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
R4072	1-218-947-11	METAL CHIP	330	5%	1/16W	R6006	1-250-519-11	METAL CHIP	10K	1%	1/16W
R4509	1-218-969-11	METAL CHIP	22K	5%	1/16W	* R6007	1-250-545-11	METAL CHIP	120K	1%	1/16W
R4521	1-218-990-81	SHORT CHIP				* R6008	1-250-511-11	METAL CHIP	4.7K	1%	1/16W
R4612	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	* R6009	1-250-527-11	METAL CHIP	22K	1%	1/16W
R5012	1-218-937-11	METAL CHIP	47	5%	1/16W	* R6010	1-250-493-11	METAL CHIP	820	1%	1/16W
R5020	1-246-127-21	METAL CHIP	2.49K	1%	1/16W	* R6011	1-250-523-11	METAL CHIP	15K	1%	1/16W
R5046	1-218-955-11	METAL CHIP	1.5K	5%	1/16W	* R6012	1-250-511-11	METAL CHIP	4.7K	1%	1/16W
R5051	1-218-937-11	METAL CHIP	47	5%	1/16W	* R6013	1-250-479-11	METAL CHIP	220	1%	1/16W
R5052	1-218-937-11	METAL CHIP	47	5%	1/16W	* R6014	1-250-501-11	METAL CHIP	1.8K	1%	1/16W
* R5062	1-250-526-11	METAL CHIP	20K	1%	1/16W	* R6015	1-250-503-11	METAL CHIP	2.2K	1%	1/16W
* R5063	1-250-526-11	METAL CHIP	20K	1%	1/16W	R6022	1-218-990-81	SHORT CHIP			
R5064	1-218-965-11	METAL CHIP	10K	5%	1/16W	R6033	1-218-990-81	SHORT CHIP			
R5065	1-218-965-11	METAL CHIP	10K	5%	1/16W	R6034	1-218-990-81	SHORT CHIP			
* R5128	1-250-477-11	METAL CHIP	180	1%	1/16W	R6090	1-218-990-81	SHORT CHIP			
R5156	1-218-937-11	METAL CHIP	47	5%	1/16W	R6098	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5163	1-218-945-11	METAL CHIP	220	5%	1/16W	R6100	1-250-519-11	METAL CHIP	10K	1%	1/16W
R5164	1-218-945-11	METAL CHIP	220	5%	1/16W	R6101	1-218-985-11	METAL CHIP	470K	5%	1/16W
R5165	1-218-945-11	METAL CHIP	220	5%	1/16W	* R7003	1-250-589-11	METAL CHIP	75	1%	1/10W
R5166	1-218-945-11	METAL CHIP	220	5%	1/16W	* R7004	1-250-589-11	METAL CHIP	75	1%	1/10W
R5200	1-218-965-11	METAL CHIP	10K	5%	1/16W	* R7005	1-250-589-11	METAL CHIP	75	1%	1/10W
R5268	1-218-977-11	METAL CHIP	100K	5%	1/16W	* R7009	1-250-589-11	METAL CHIP	75	1%	1/10W
* R5269	1-250-491-11	METAL CHIP	680	1%	1/16W	* R7010	1-250-589-11	METAL CHIP	75	1%	1/10W
R5270	1-218-957-11	METAL CHIP	2.2K	5%	1/16W	* R7011	1-250-589-11	METAL CHIP	75	1%	1/10W
R5514	1-218-929-11	METAL CHIP	10	5%	1/16W	* R7018	1-250-589-11	METAL CHIP	75	1%	1/10W



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7023	1-250-495-11	METAL CHIP	1K	1%	1/16W	R9307	1-218-933-11	METAL CHIP	22	5%	1/16W
* R7027	1-250-499-11	METAL CHIP	1.5K	1%	1/16W	R9400	1-218-990-81	SHORT CHIP			
R7029	1-250-495-11	METAL CHIP	1K	1%	1/16W	R9401	1-218-990-81	SHORT CHIP			
* R7036	1-250-489-11	METAL CHIP	560	1%	1/16W	R9413	1-218-941-81	METAL CHIP	100	5%	1/16W
R8400	1-218-945-11	METAL CHIP	220	5%	1/16W	R9416	1-218-941-81	METAL CHIP	100	5%	1/16W
R8419	1-218-937-11	METAL CHIP	47	5%	1/16W	R9421	1-218-941-81	METAL CHIP	100	5%	1/16W
R8422	1-218-945-11	METAL CHIP	220	5%	1/16W	R9425	1-218-941-81	METAL CHIP	100	5%	1/16W
R8425	1-218-945-11	METAL CHIP	220	5%	1/16W	R9433	1-218-941-81	METAL CHIP	100	5%	1/16W
R8427	1-218-965-11	METAL CHIP	10K	5%	1/16W	R9434	1-218-941-81	METAL CHIP	100	5%	1/16W
R8429	1-218-949-11	METAL CHIP	470	5%	1/16W	R9435	1-218-941-81	METAL CHIP	100	5%	1/16W
R8442	1-218-973-11	METAL CHIP	47K	5%	1/16W	R9436	1-218-941-81	METAL CHIP	100	5%	1/16W
R8472	1-218-973-11	METAL CHIP	47K	5%	1/16W	R9437	1-218-937-11	METAL CHIP	47	5%	1/16W
R8473	1-218-965-11	METAL CHIP	10K	5%	1/16W	R9438	1-218-937-11	METAL CHIP	47	5%	1/16W
R9001	1-218-953-11	METAL CHIP	1K	5%	1/16W	R9439	1-218-990-81	SHORT CHIP			
R9003	1-218-990-81	SHORT CHIP				R9440	1-218-990-81	SHORT CHIP			
R9004	1-218-990-81	SHORT CHIP				R9441	1-218-990-81	SHORT CHIP			
R9007	1-218-990-81	SHORT CHIP				R9463	1-218-941-81	METAL CHIP	100	5%	1/16W
* R9028	1-250-527-11	METAL CHIP	22K	1%	1/16W	R9464	1-218-941-81	METAL CHIP	100	5%	1/16W
* R9029	1-250-507-11	METAL CHIP	3.3K	1%	1/16W	R9469	1-218-990-81	SHORT CHIP			
R9031	1-245-604-11	METAL CHIP	10M	5%	1/16W	R9490	1-218-990-81	SHORT CHIP			
* R9053	1-250-503-11	METAL CHIP	2.2K	1%	1/16W	R9492	1-218-990-81	SHORT CHIP			
R9055	1-218-965-11	METAL CHIP	10K	5%	1/16W	R9493	1-218-990-81	SHORT CHIP			
R9057	1-218-953-11	METAL CHIP	1K	5%	1/16W	R9494	1-218-990-81	SHORT CHIP			
R9064	1-218-965-11	METAL CHIP	10K	5%	1/16W	R9600	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9121	1-218-990-81	SHORT CHIP				R9601	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9134	1-218-969-11	METAL CHIP	22K	5%	1/16W	* R9602	1-250-479-11	METAL CHIP	220	1%	1/16W
R9140	1-218-965-11	METAL CHIP	10K	5%	1/16W	R9718	1-250-471-11	METAL CHIP	100	1%	1/16W
R9141	1-218-953-11	METAL CHIP	1K	5%	1/16W	R9719	1-250-471-11	METAL CHIP	100	1%	1/16W
* R9163	1-250-527-11	METAL CHIP	22K	1%	1/16W	* R9720	1-250-480-11	METAL CHIP	240	1%	1/16W
* R9164	1-250-507-11	METAL CHIP	3.3K	1%	1/16W	* R9721	1-250-480-11	METAL CHIP	240	1%	1/16W
R9169	1-218-973-11	METAL CHIP	47K	5%	1/16W	R9722	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9173	1-218-973-11	METAL CHIP	47K	5%	1/16W	R9723	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9177	1-218-973-11	METAL CHIP	47K	5%	1/16W	R9724	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9203	1-218-989-11	METAL CHIP	1M	5%	1/16W	R9725	1-250-519-11	METAL CHIP	10K	1%	1/16W
R9207	1-218-952-11	METAL CHIP	820	5%	1/16W						
R9217	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9218	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9219	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9220	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9270	1-218-941-81	METAL CHIP	100	5%	1/16W						
R9298	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9299	1-218-957-11	METAL CHIP	2.2K	5%	1/16W						
R9304	1-218-933-11	METAL CHIP	22	5%	1/16W						
R9305	1-218-933-11	METAL CHIP	22	5%	1/16W						
R9306	1-218-933-11	METAL CHIP	22	5%	1/16W						
						RESISTOR BRIDGE					
						RB2011	1-234-375-21	RES, NETWORK 1K	(1005X4)		
						RB2016	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)		
						* RB2020	1-457-685-11	INDUCTOR	0μH		
						* RB2021	1-457-685-11	INDUCTOR	0μH		
						* RB2022	1-457-685-11	INDUCTOR	0μH		
						RB2500	1-234-376-11	RES, NETWORK 2.2K	(1005X4)		
						RB2501	1-234-702-11	RES, NETWORK 68	(1005X4)		
						RB2502	1-234-371-21	RES, NETWORK 47	(1005X4)		

BATV GE2A GE3A

REF. NO.	PART NO.	DESCRIPTION	VALUES	REF. NO.	PART NO.	DESCRIPTION	VALUES
RB2503	1-234-370-21	RES, NETWORK 22	(1005X4)	TRANSFORMER			
RB2702	1-234-381-11	RES, NETWORK 100K	(1005X4)	* T1401	1-445-777-11	TRANSFORMER, RF (SMD) (2010)	
RB2703	1-234-381-11	RES, NETWORK 100K	(1005X4)	T5200	1-443-830-21	MAGNETIC MODULE(TLA-6T213LF(-T	
RB2705	1-234-381-11	RES, NETWORK 100K	(1005X4)	VARISTOR			
RB4002	1-234-381-11	RES, NETWORK 100K	(1005X4)	VD2512	1-802-090-21	VARISTOR, CHIP	
RB4003	1-234-381-11	RES, NETWORK 100K	(1005X4)	VD2524	1-802-090-21	VARISTOR, CHIP	
RB4501	1-234-372-11	RES, NETWORK 100	(1005X4)	VD2597	1-802-090-21	VARISTOR, CHIP	
RB4905	1-234-387-21	RES, NETWORK 330	(1005X4)	VD2598	1-802-090-21	VARISTOR, CHIP	
RB5001	1-234-377-21	RES, NETWORK 4.7K	(1005X4)	VD2599	1-802-090-21	VARISTOR, CHIP	
RB5002	1-234-378-21	RES, NETWORK 10K	(1005X4)	VD2701	1-802-090-21	VARISTOR, CHIP	
RB5003	1-234-378-21	RES, NETWORK 10K	(1005X4)	VD2705	1-802-090-21	VARISTOR, CHIP	
* RB5200	1-234-723-21	RES, NETWORK 75	(1005X4)	VD2708	1-802-090-21	VARISTOR, CHIP	
RB5201	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	VD2709	1-802-090-21	VARISTOR, CHIP	
RB5202	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	VD2798	1-802-090-21	VARISTOR, CHIP	
RB5203	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	VD2799	1-802-090-21	VARISTOR, CHIP	
RB5204	1-234-373-21	RES, NETWORK 220	(1005X4)	CRYSTAL			
RB5205	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	* X1401	1-814-501-11	QUARTZ CRYSTAL UNIT	
RB5207	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	X1801	1-814-238-11	VIBRATOR, CRYSTAL	
RB5210	1-234-378-21	RES, NETWORK 10K	(1005X4)	X5000	1-814-304-11	VIBRATOR, CRYSTAL	
RB5500	1-234-380-21	RES, NETWORK 47K	(1005X4)	X9000	1-814-485-11	QUARTZ CRYSTAL UNIT	
RB5501	1-234-380-21	RES, NETWORK 47K	(1005X4)	X9001	1-781-525-11	VIBRATOR, CRYSTAL	
RB5502	1-234-380-21	RES, NETWORK 47K	(1005X4)	GE2A			
RB5505	1-234-380-21	RES, NETWORK 47K	(1005X4)	1-474-277-12 GE2A (POWER) BOARD, COMPLETE			
RB5506	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	(KDL-32EX421/32EX423/32EX520/32EX521/32EX523 ONLY)			
RB5507	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)	Component level repair information is not available.			
RB5510	1-234-377-21	RES, NETWORK 4.7K	(1005X4)	GE3A			
RB5511	1-234-375-21	RES, NETWORK 1K	(1005X4)	1-474-287-11 GE3A (POWER) BOARD, COMPLETE			
RB8400	1-234-702-11	RES, NETWORK 68	(1005X4)	(KDL-40EX520/40EX521/40EX523/46EX520/46EX521/46EX523 ONLY)			
RB8401	1-234-702-11	RES, NETWORK 68	(1005X4)	Component level repair information is not available.			
RB8402	1-234-702-11	RES, NETWORK 68	(1005X4)				
RB8403	1-234-372-11	RES, NETWORK 100	(1005X4)				
RB8404	1-234-702-11	RES, NETWORK 68	(1005X4)				
RB9021	1-234-372-11	RES, NETWORK 100	(1005X4)				
RB9022	1-234-375-21	RES, NETWORK 1K	(1005X4)				
RB9025	1-234-369-21	RES, NETWORK 10	(1005X4)				
RB9026	1-234-369-21	RES, NETWORK 10	(1005X4)				
RB9031	1-234-372-11	RES, NETWORK 100	(1005X4)				
RB9040	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9041	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9042	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9043	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9092	1-234-380-21	RES, NETWORK 47K	(1005X4)				
RB9302	1-234-371-21	RES, NETWORK 47	(1005X4)				
RB9303	1-234-371-21	RES, NETWORK 47	(1005X4)				

HLR2 HMS3

REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES			
HLR2												
A-1792-877-A		HLR2 BOARD, MOUNTED										
		CAPACITOR										
C102	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V							
C107	1-114-130-11	CERAMIC CHIP	1μF	10%	6.3V							
		CONNECTOR										
CN100	1-821-139-11	HEADER ASSEMBLY FOR PWB										
		DIODE										
* D100	6-502-294-01	DIODE	SML-D13M8WT86S									
D101	6-502-196-01	DIODE	SML-D12Y8WT86SP									
* D103	6-502-294-01	DIODE	SML-D13M8WT86S									
D104	6-502-598-01	DIODE	SML-D12U8WT86									
		PHOTO COUPLER										
PH100	6-600-680-01	PHOTO DIODE	BH1690FVC-TR									
		TRANSISTOR										
Q100	6-551-690-01	TRANSISTOR	RT3N11M-TP-1									
Q102	6-551-690-01	TRANSISTOR	RT3N11M-TP-1									
Q103	6-552-407-01	TRANSISTOR	DSA500100L									
		RESISTOR										
* R102	1-250-493-11	METAL CHIP	820	1%	1/16W							
* R103	1-250-501-11	METAL CHIP	1.8K	1%	1/16W							
* R111	1-250-493-11	METAL CHIP	820	1%	1/16W							
* R112	1-250-503-11	METAL CHIP	2.2K	1%	1/16W							
R115	1-218-941-81	METAL CHIP	100	5%	1/16W							
R116	1-218-937-11	METAL CHIP	47	5%	1/16W							
R120	1-218-955-11	METAL CHIP	1.5K	5%	1/16W							
R124	1-218-965-11	METAL CHIP	10K	5%	1/16W							
R126	1-218-971-11	METAL CHIP	33K	5%	1/16W							
R128	1-218-953-11	METAL CHIP	1K	5%	1/16W							
R136	1-218-990-81	SHORT CHIP										
R137	1-218-990-81	SHORT CHIP										
R138	1-218-990-81	SHORT CHIP										

HMS3						
A-1792-511-A		HMS3 BOARD, MOUNTED				
		CAPACITOR				
C101	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	
C102	1-112-779-11	CERAMIC CHIP	0.047μF	10%	25V	
C103	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	
C104	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V	
C105	1-100-909-11	CERAMIC CHIP	10μF	10%	6.3V	
C106	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	
C107	1-114-807-11	CERAMIC CHIP	0.015μF	10%	25V	
C108	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	
C109	1-114-332-11	CERAMIC CHIP	22μF	10%	6.3V	
		DIODE				
D100	6-502-934-01	DIODE				DB2S31100K8
D101	6-502-934-01	DIODE				DB2S31100K8
		IC				
IC100	8-759-337-40	IC				NJM2904V(TE2)
		TRANSISTOR				
Q100	6-551-321-01	TRANSISTOR				RT3WLMM-TP-1F
		RESISTOR				
* R104	1-250-559-11	METAL CHIP	470K	1%	1/16W	
R107	1-218-989-11	METAL CHIP	1M	5%	1/16W	
R110	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R112	1-248-243-81	METAL CHIP	8.2M	5%	1/16W	
R125	1-218-981-91	METAL CHIP	220K	5%	1/16W	
R126	1-218-981-91	METAL CHIP	220K	5%	1/16W	
R127	1-218-973-11	METAL CHIP	47K	5%	1/16W	
R128	1-248-243-81	METAL CHIP	8.2M	5%	1/16W	
* R129	1-250-543-11	METAL CHIP	100K	1%	1/16W	
* R130	1-250-507-11	METAL CHIP	3.3K	1%	1/16W	



REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES
*	R131	1-250-501-11	METAL CHIP	1.8K	1%	1/16W			
	R132	1-218-965-11	METAL CHIP	10K	5%	1/16W			
*	R134	1-250-507-11	METAL CHIP	3.3K	1%	1/16W			
	R136	1-218-990-81	SHORT CHIP						
		<u>SWITCH</u>							
*	SE100	1-489-437-11	INFRARED RECEIVER SENSOR						

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**.

SONY® is a trademark of Sony Electronics

Reproduction in whole or part without written permission is prohibited. All rights reserved