

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

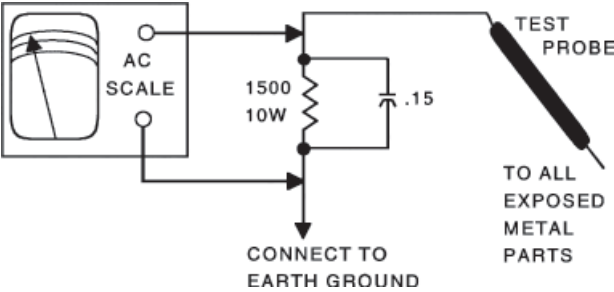
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



POWER CONSUMPTION

Power Consumption: 280W @110-240VAC 50/60Hz
Standby Power: <.4W
Note: Use an appropriate sized Variac and/or Isolation Transformer during servicing.

The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing LLC as to the quality and suitability of such replacement part. The numbers of the listed parts have been compiled from information furnished to SAMS Technical Publishing LLC by the manufacturers of the specific type of replacement part listed.

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9850 E. 30th St.
Indianapolis IN 46229
www.samswebsite.com

Printed in the United States of America 5 4 3 2 1

10FP06132



QUICKFACT
FROM PHOTOFACTTM
LCD SERIES

SET 5599

MODELS KDL-46XBR4/XBR5

SONY

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Do not use lead based solder for repair.

For a Complete List of Manuals,
Visit www.samswebsite.com

5599

Technical Service Data

SONY
MODELS KDL-46XBR4/XBR5
with A-1256-154-B GF1 (POWER SUPPLY)



Representative Model

Essential Coverage For Servicing
LCD Receivers...

- Power Supply Schematic
- Miscellaneous adjustments
- Placement chart
- Parts list



OCTOBER 2010 SET 5599

5599

5599

MISCELLANEOUS ADJUSTMENTS

ENTERING SERVICE MENU

- Put the set in the standby mode (Power Off).
- Press the following keys on the Remote within a second of each other in the following sequence.

DISPLAY, 5, VOLUME+, TV POWER

The first Service Menu will display. To display the Service Menu that contains the category you want to adjust, press the JUMP key on the Remote. Use the 2 or 5 keys to change categories within the selected Service Menu. Press keys 1 or 4 on the Remote to select the adjustment item. Use the 3 or 6 key on the Remote to increase or decrease the data value. To write into memory the value changes press MUTING then 0 on the Remote. To Exit Service Menu mode, turn the power off at the Remote.

To Exit Service Menu mode, turn the power off at the Remote.

Display Window

DIGITAL	SERVICE
001 OP	
000 VERS	000
<DIGITAL>	<SUB>
DMO. 159A00AA	SMO.100W00AA
DDO. 000A00LU	SDO.010W00AA
M2.001C	SB1.000W00AA
	<BE>
	BM0.050W00AU
	BDO.049AOOLUW
	BBO.029W00AU

Press the JUMP key to view the next Service Menu.

CHASSIS SERVICE

000	GR
000	GRMD

Press the JUMP key to view the next Service Menu.

SUB	SERVICE
0	VERS
1	MODEL
2	ID

Press the JUMP key to view the next Service Menu.

BEM	SERVICE
BOOT:	0.026W00AU
MAIN:	0.050W00AU
DATA:	0.049A00LUW

Press the JUMP key to move back to the Beginning Service Menu.

UPDATING MODEL INFORMATION AFTER FB1 BOARD REPLACEMENT

Complete the following steps to reset the model information to the correct size after replacing the FB1 Board.

Enter Service Menu then press the JUMP key until the BEM micro service menu displays. Press 2 until the 0001 MODEL_INFO category displays. Use the 3 or 6 keys on the remote to increase or decrease the value, do one of the following:

If model size is 40”: Set to 0

If model size is 46”: Set to 1

Then write into memory the value changes, press MUTING then 0 on the Remote. To Exit Service Menu mode, turn the power off at the Remote.

RESETTING THE USER MENU – FACTORY RESET

This option resets all customized settings back to factory defaults including Parental Lock setting.

With the TV on, hold down the arrow up key on the Remote and press the Power key on the TV. (The TV will turn itself off, then back on again.) Release arrow up key.

LED SELF DIAGNOSTIC INDICATION

The three LEDS on the front panel of the set are used to indicate different failures.

LED	LED TYPE	DESCRIPTION
POWER LED	Green LED	Light is green when the set is on
STANDBY LED	Red LED	Lights up in red when TV is in PC standby mode. If LED blinks continuously, this may indicate that the TV needs servicing.
PIC OFF/TIMER LED	Green or Orange LED	Lights up in green when Picture Off is activated Lights up in orange when the timer is set. When timer is set, the LED remains lit even when the TV is turned off.

SELF CHECK DIAGNOSTIC INDICATORS

Put the set in standby mode (Power Off). Access the Self Check list by pressing the keys on the Remote within a second of each other in the following sequence. **NOTE:** That the Volume – is used for this function.

DISPLAY, 5, VOLUME-, TV POWER

Note: 00 indicated no error was detected, 01 indicated an error was detected under the NO. EVENTS column.

LED	DISPLAY	NO. EVENTS	CONTENTS
000	-	00	-
002	POW-OVP	00	POWER OVP
003	POW-ERR1	00	POWER ERROR
005	T-CON	00	T-CON ERROR
006	BACKLITE	00	BACKLIGHT ERROR
007	PANLTEMP	00	PANEL TEMP ERROR
008	AUD-PROT	00	AUDIO PROTECTOR
009	FAN-ERR	00	Not used in these models
010	DTT-WDT	00	-
011	-	00	-
013	BALANCER	00	PANEL ERROR
101	DTT-WDT	00	WDT-Watch dog timers used to track microprocessors.
102	TVM-WDT	00	WDT-Watch dog timers used to track microprocessors.
103	BEM-WDT	00	WDT-Watch dog timers used to track microprocessors.
00332	00043	0000	
Operate Hrs.	Boot Ct.	Panel Hrs.	

RESETTING THE DIAGNOSTIC INDICATORS

After completing the necessary repairs of the set, reset the Self Check screen to set all the display results to “00”.

Put the set in standby mode (Power Off). Access the Self Check list by pressing the keys on the Remote within a second of each other in the following sequence. **NOTE:** That the Volume – is used for this function.

DISPLAY, 5, VOLUME-, TV POWER
Then press 8, then 0 keys on the Remote. To Exit press TV Power.

PARENTAL LOCK PASSWORD

Select the Password settings on the Parental Lock settings, then enter the following master password: 4357. The master password clears your previous password and allows you to enter a new password.

POWER SAVING

Find Power Saving under General Settings in the main menu. Power Saving reduces the power consumption by adjusting the Backlight Brightness. This also enhances the black level. Select from OFF, LOW, HIGH and PICTURE OFF.

LIGHT SENSOR

Enables the automatic picture (screen) brightness control. Light Sensor to measure the room brightness that allows the TV to automatically adjust the Backlight Brightness based on the picture settings and the ambient room light conditions. In low light the range of the Backlight control is reduced when Light Sensor is set to ON.

PC POWER MANAGEMENT

Select ON to automatically enter into standby mode when there is no signal input for more than 30 seconds. The Standby LED on the front panel will illuminate when PC Power Management switches the TV to standby mode. Select OFF to turn off Power Management.

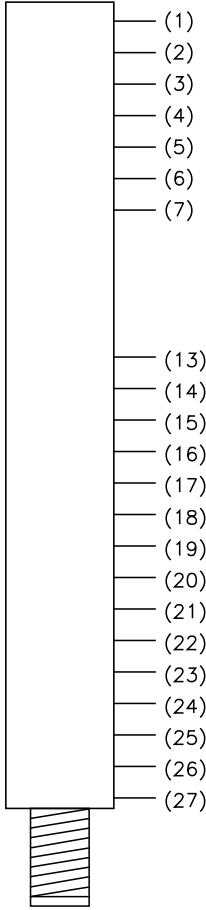
ADVANCED SETTINGS

Select Advanced Settings under Picture Settings in the main menu.

Reset	Resets all the advanced settings to the default values.
Black Correction	Enhances black areas of the picture for stronger contrast.
Advanced C.E. (Contrast Enhancer)	Automatically optimizes the backlight and contrast. Effects dark picture scenes. It will increase the contrast distinction of the dark picture scenes.
Gamma	Adjusts the balance between light and dark areas of the picture.
Clear White	Emphasizes white and light colors.
Color Space	Selects the range of color reproduction from Wide or Standard.
Live Color	Makes colors more vivid and reproduces clear skin tones.
White Balance	Adjusts the color temperature color by color.
Detail Enhancer	Enhances the details of the picture.
Edge Enhancer	Enhances the outline of the picture.

TUNER INFORMATION

TU1000 TUNER
Terminal Guide

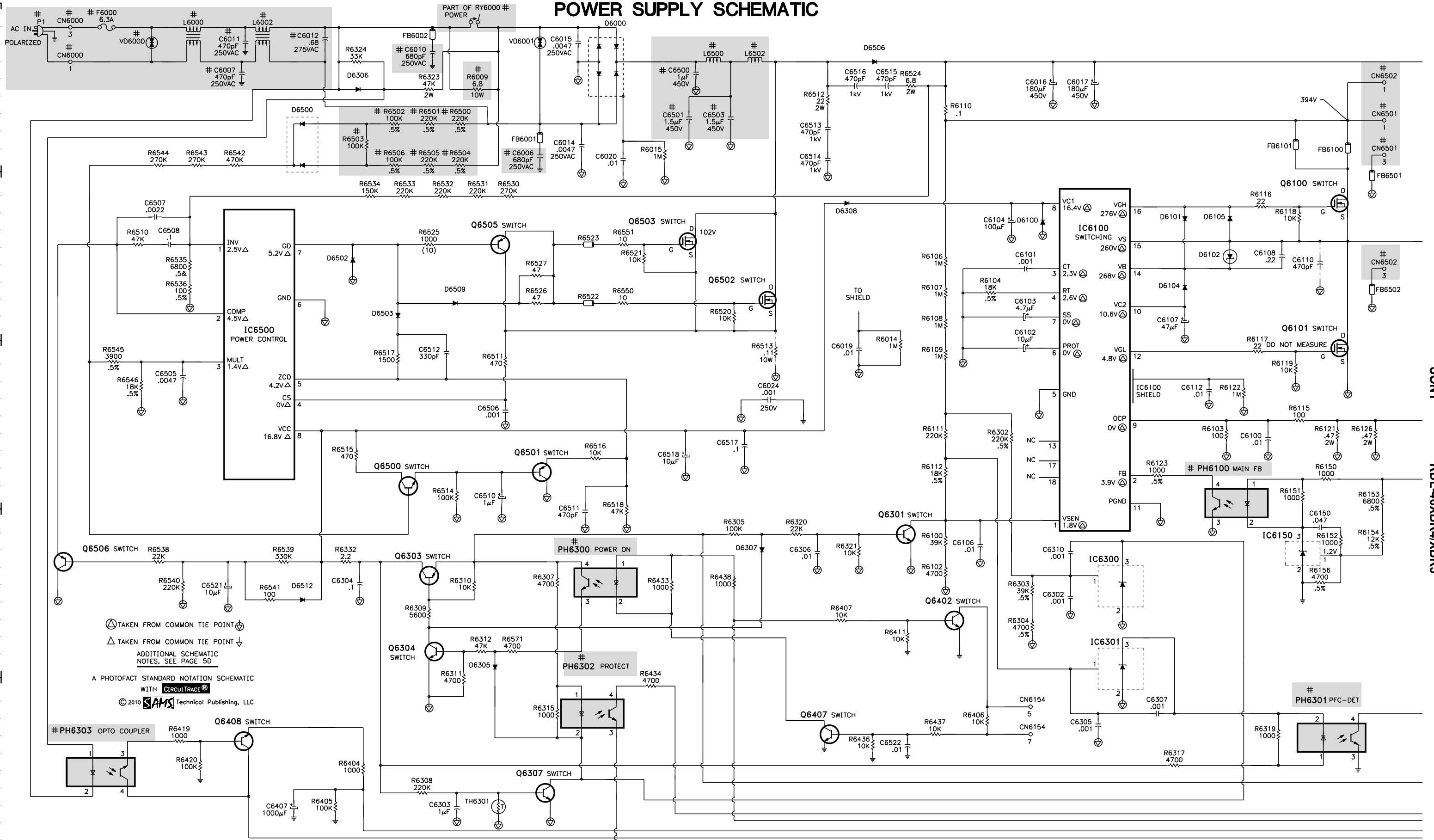


TU1000 TUNER		
PIN	Description	Voltage
1	ADR	4.7V
2	TU-SDA	3.3V
3	TU-SCL	3.3V
4	AGC-IN	4.0V
5	A5V	5.0V
6	IF-OUT	.7V
7	NC	0V
13	IF-AGC	3.0V
14	D-IF1	3.3V
15	D-IF2	3.3V
16	A5V-VIF	5.0V
17	AFT-OUT	.7V
18	DET-OUT	0V
19	AGND	0V
20	ST-ID	0V
21	SAP-ID	0V
22	MODE	0V
23	F-MONO	0V
24	A9V-MPX	9.0V
25	R-OUT	0V
26	L-OUT	0V
27	A5V-DD	5.0V

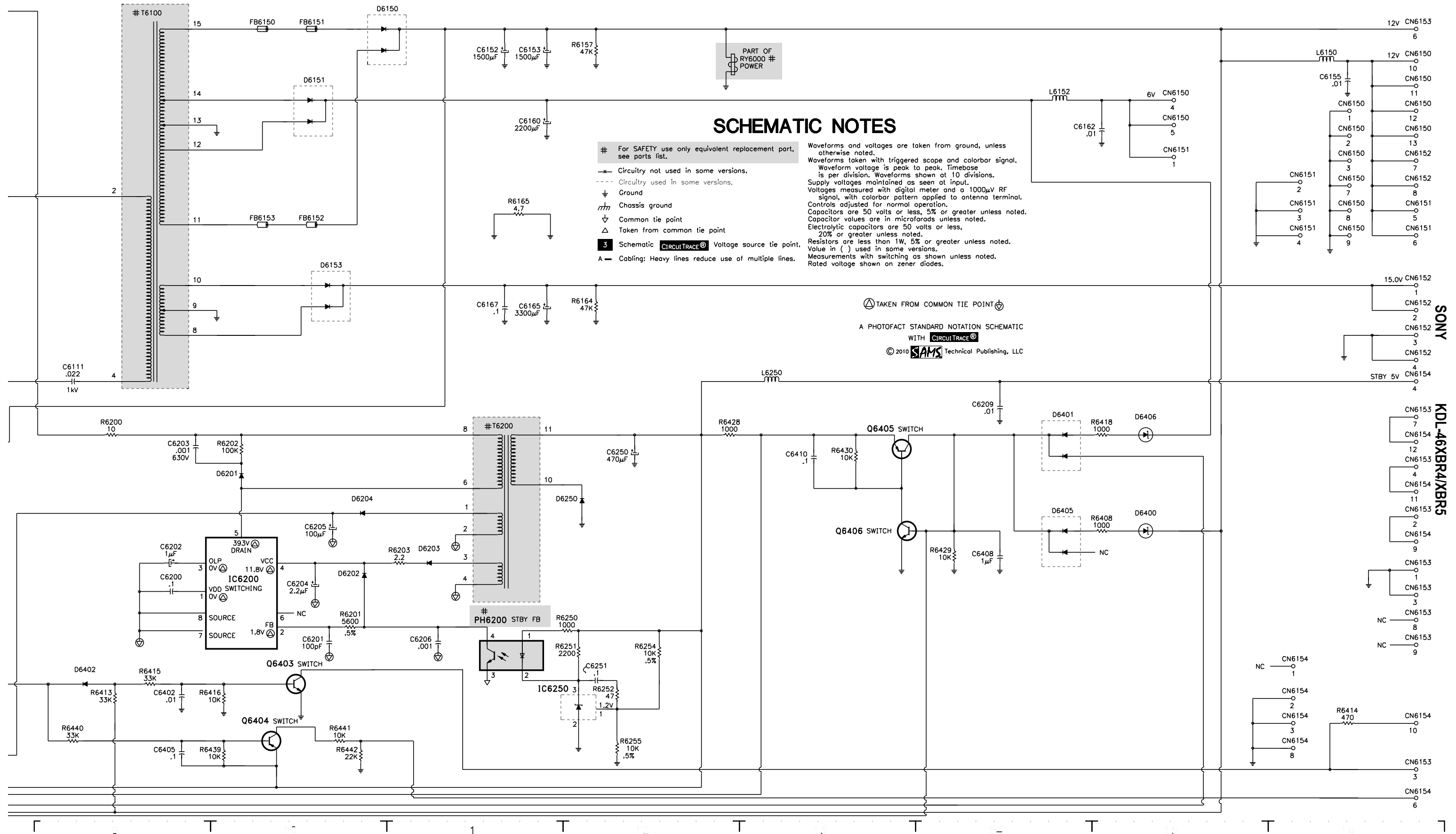
SCHEMATIC COMPONENT LOCATION GUIDE

C6006	B4	C6405	E9	D6509	B3	Q6501	C4	R6303	D6	R6511	C3
C6007	A2	C6407	E2	D6512	D2	Q6502	B5	R6304	D6	R6512	A5
C6010	A3	C6408	D14	F6000	A1	Q6505	B3	R6305	D5	R6513	C5
C6011	A2	C6410	C13	FB6001	A4	Q6506	D1	R6307	D4	R6514	C3
C6012	A2	C6500	A4	FB6002	A3	R6009	A3	R6308	E3	R6515	C3
C6014	A4	C6501	A4	FB6100	A8	R6014	C6	R6309	D3	R6516	C4
C6015	A4	C6503	A5	FB6101	A8	R6015	B4	R6310	D3	R6517	C3
C6016	A6	C6505	C2	FB6150	A10	R6015	C5	R6311	E3	R6518	D4
C6017	A7	C6506	C3	FB6151	A10	R6100	D6	R6312	D3	R6520	B5
C6019	C5	C6507	B1	FB6152	B10	R6102	D6	R6315	E4	R6521	B4
C6020	B4	C6508	B1	FB6153	B10	R6103	C7	R6320	D5	R6522	B4
C6020	C4	C6510	C3	FB6501	B8	R6104	B6	R6321	D5	R6523	B4
C6024	C5	C6511	D4	FB6502	B8	R6106	B6	R6323	A3	R6524	A6
C6100	C8	C6512	C3	IC801	B7	R6107	B6	R6324	A2	R6525	B3
C6101	B6	C6513	A5	IC6150	D8	R6108	B6	R6332	D2	R6526	B3
C6102	C6	C6514	B5	IC6200	D10	R6109	C6	R6404	E3	R6527	B3
C6103	B6	C6515	A5	IC6250	E11	R6110	A6	R6405	E2	R6530	B3
C6104	B6	C6516	A5	IC6300	D7	R6111	C6	R6406	E6	R6531	B3
C6106	D6	C6517	C5	IC6301	D7	R6112	C6	R6407	D5	R6532	B3
C6107	B7	C6518	C4	IC6500	C2	R6115	C8	R6408	D14	R6533	B3
C6108	B8	C6521	D1	L6000	A2	R6116	B8	R6411	D6	R6534	B3
C6110	B8	C6522	E6	L6002	A2	R6117	C8	R6413	E9	R6535	B2
C6111	C9	D6000	A4	L6150	A16	R6117	E7	R6414	E16	R6536	B2
C6112	C7	D6100	B6	L6152	B14	R6118	B8	R6415	E9	R6539	D2
C6150	D8	D6101	B7	L6250	C13	R6119	C8	R6416	E10	R6540	D1
C6152	A11	D6102	B7	L6500	A5	R6119	E8	R6418	C14	R6541	D2
C6155	A16	D6104	B7	L6502	A5	R6121	C8	R6419	E1	R6542	B2
C6160	B11	D6105	B7	P1	A1	R6122	C8	R6420	E2	R6543	B2
C6162	B14	D6150	A10	PH6100	C8	R6123	C7	R6428	C12	R6544	B1
C6163	A11	D6151	B10	PH6200	D11	R6126	C8	R6429	D14	R6545	C1
C6165	C11	D6153	C10	PH6300	D4	R6150	C8	R6430	C13	R6546	C1
C6167	C11	D6201	D10	PH6301	E8	R6151	C8	R6433	D4	R6550	B4
C6200	D9	D6202	D10	PH6302	E4	R6152	D8	R6434	E4	R6551	B4
C6201	D10	D6203	D11	PH6303	E1	R6153	C8	R6436	E5	R6571	D3
C6202	D9	D6204	D10	Q6100	B8	R6154	D8	R6437	E6	RY6000	A12
C6203	C9	D6305	D3	Q6101	C8	R6156	D8	R6438	D5	RY6000	A3
C6205	D10	D6306	A3	Q6301	D6	R6157	A12	R6439	E10	T6100	A9
C6206	D11	D6307	D5	Q6303	D3	R6164	C12	R6440	E9	T6200	C11
C6209	C14	D6308	B5	Q6304	D3	R6165	B11	R6441	E10	TH6301	E3
C6251	E12	D6400	D15	Q6307	E4	R6200	C9	R6442	E10	VD6000	A1
C6302	D7	D6401	C14	Q6402	D6	R6201	D10	R6500	A3	VD6001	A4
C6303	E3	D6402	E9	Q6403	E10	R6202	C10	R6501	A3		
C6304	D3	D6405	D14	Q6404	E10	R6203	D11	R6502	A3		
C6305	E6	D6406	C15	Q6405	C13	R6250	D12	R6503	A3		
C6306	D5	D6500	A2	Q6407	E5	R6251	E12	R6504	B3		
C6307	E7	D6502	B2	Q6408	E2	R6252	E12	R6505	B3		
C6310	D7	D6503	B3	Q6500	C3	R6254	E12	R6506	B3		
C6402	E9	D6506	A5	Q6501	B4	R6255	E12	R6510	B1		

POWER SUPPLY SCHEMATIC



POWER SUPPLY SCHEMATIC continued



BOARD PLACEMENT CHART

DF2 (INVERTER POWER SUPPLY) BOARD

DF3 (INVERTER POWER SUPPLY) BOARD

FB1 (MAIN) BOARD

GF1 (POWER SUPPLY) BOARD

TUU2 (DEMOD/TUNER) BOARD

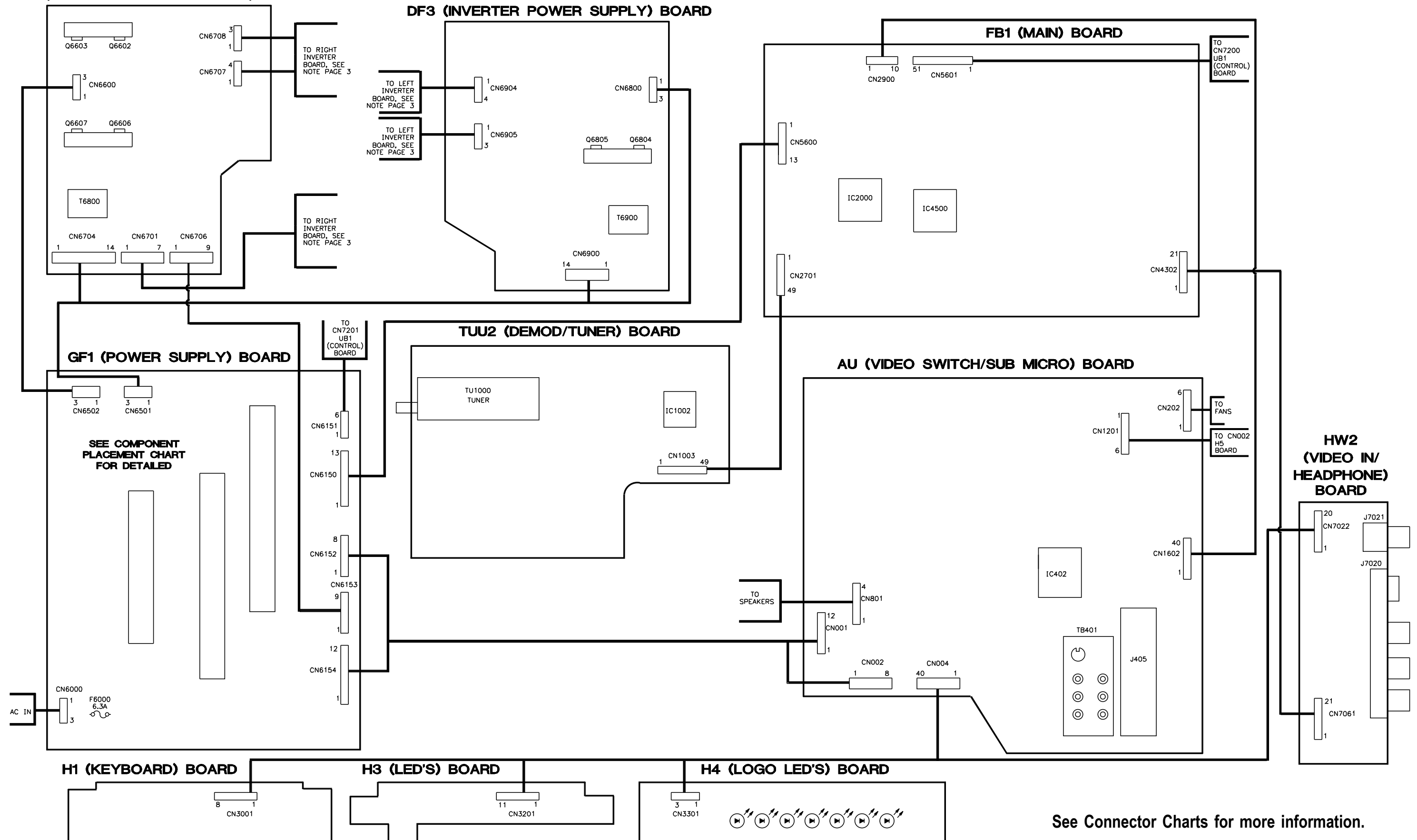
AU (VIDEO SWITCH/SUB MICRO) BOARD

HW2 (VIDEO IN/ HEADPHONE) BOARD

H1 (KEYBOARD) BOARD

H3 (LED'S) BOARD

H4 (LOGO LED'S) BOARD



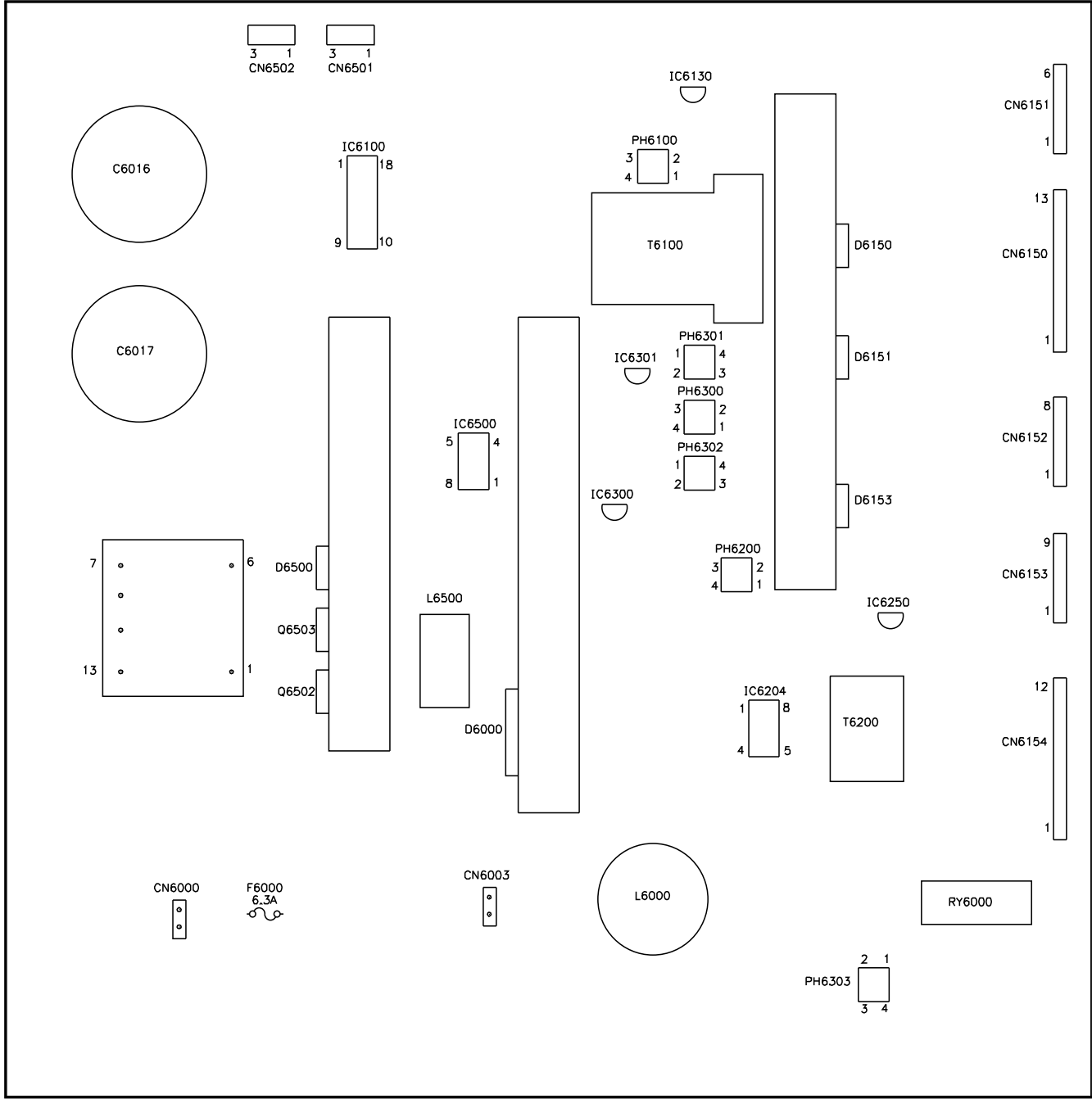
See Connector Charts for more information.

See Connector Charts for more information.

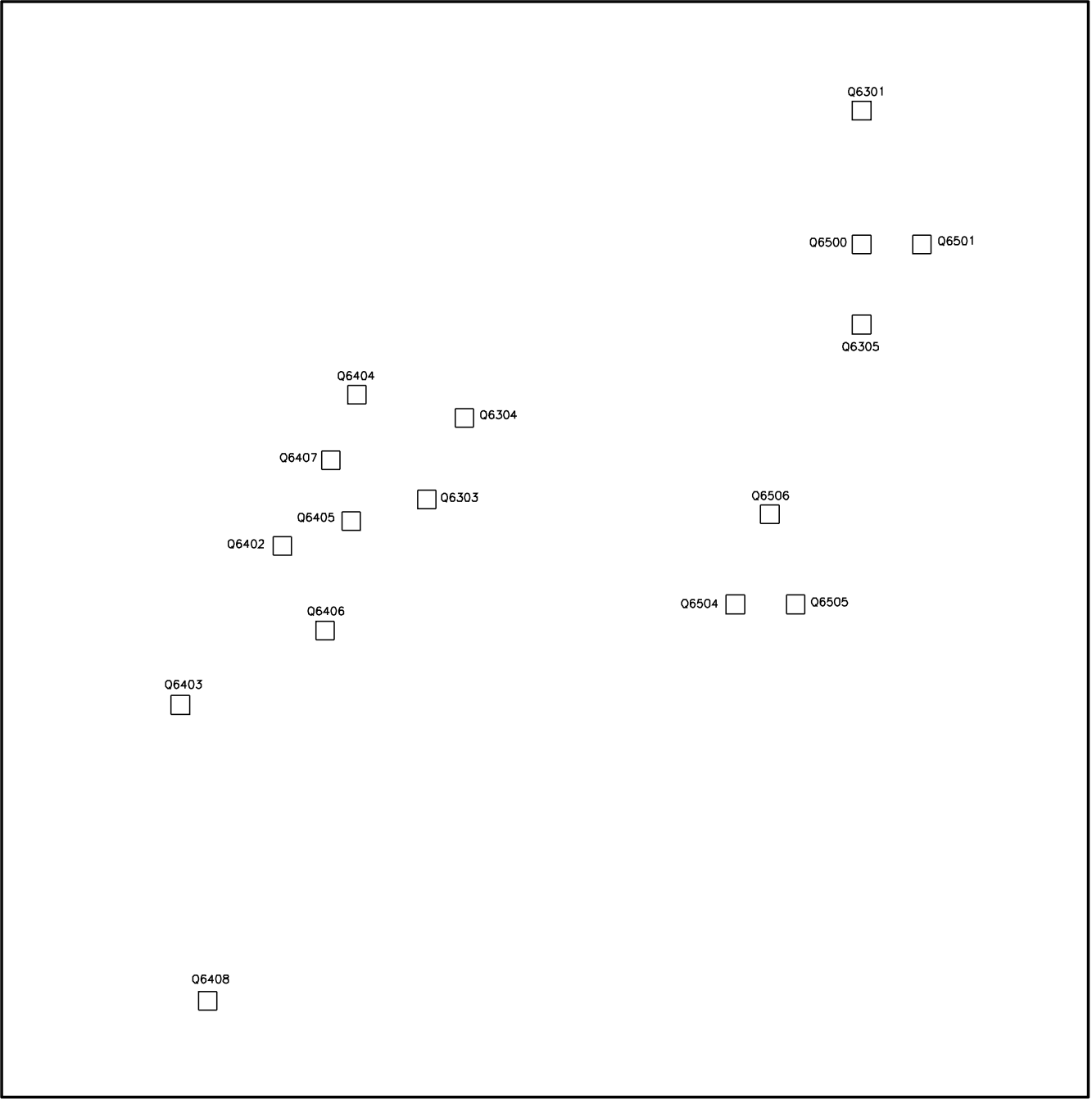
COMPONENT PLACEMENT CHART

See Connector Charts for more information.

GF1 POWER SUPPLY BOARD (TOP VIEW)



GF1 POWER SUPPLY BOARD (BOTTOM VIEW)



See Connector Charts for more information.

CONNECTOR CHART

AU (VIDEO SWITCH/SUB MICRO) BOARD

FB1 (MAIN) BOARD

CN004			CN002			CN1201		
Do not measure			PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
			1	15V	15.0V	1	GND	0V
			2	15V	15.0V	2	STBY 3.3V	3.3V
			3	AUD-GND	0V	3	CEC-ON	-
			4	AUD-GND	0V	4	TX	-
			5	GND	0V	5	GND	0V
			6	GND	0V	6	RX	-
			7	12V	12.0V			
			8	12V	12.0V			
			CN202			CN001		
PIN	PIN ID	VOLTAGE	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	GND	0V	1	FAN-FRIV-L1	-	1	18V	18.0V
2	12V	12.0V	2	FAN-ERR-L1	-	2	GND	0V
3	12V	12.0V	3	GND	0V	3	GND	0V
4	HM-ON	-	4	FAN-DRIV-L2	-	4	STBY-5V	5.0V
5	PPON	-	5	FAN-ERR-L2	-	5	PS-ERR	-
6	FAULT	-	6	GND	0V	6	PFC-DET	-
7	D1+	-				7	AC-RELAY	-
8	D1-	-				8	GND	0V
9	GND	0V				9	DIMMER	-
10	S-GND	0V				10	BACKLIGHT	-
						11	INV-ERR	-
						12	BALAN-ERR	-

CN5601			CN4302		
Do not measure			PIN	PIN ID	VOLTAGE
			1	CEC	-
			2	GND	0V
			3		DDC-SDAS -
			4	DDC-SCLS	-
			5	GND	0V
			6	TMDS CLK-	-
			7	TMDS CLK+	-
			8	GND	0V
			9	TMDS CHO-	-
			10	TMDS CHO+	-
			11	GND	0V
			12	TMDS CH1-	-
			13	TMDS CH1+	-
			14	GND	0V
			15	TMDS CH2-	-
			16	TMDS CH2+	-
			17	GND	0V
			18	HDMI-INSELS	-
			19	DDC-5V-S	5.0V
			20	HPD-5	-
			21	WP	-
			CN2701		
			Do not measure		
			CN5600		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	GND	0V	1	GND	0V
2	GND	0V	2	GND	0V
3	GND	0V	3	GND	0V
4	6V	6.0V	4	6V	6.0V
5	6V	6.0V	5	6V	6.0V
6	NC	0V	6	NC	0V
7	GND	0V	7	GND	0V
8	GND	0V	8	GND	0V
9	GND	0V	9	GND	0V
10	12V	12.0V	10	12V	12.0V
11	12V	12.0V	11	12V	12.0V
12	12V	12.0V	12	12V	12.0V
13	12V	12.0V	13	12V	12.0V

GF1 (POWER SUPPLY) BOARD

DF2 (INVERTER POWER SUPPLY) BOARD								
CN6600			CN6701			CN6707		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	Do not measure		
1	394.5V	394.5V	1	LD	-			
2	-	-	2	NC	0V			
3	GND	0V	3	GND	0V			
			4	FB	-	CN6708		
			5	12V	12.0V	Do not measure		
CN6706			CN6704					
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	GND	0V	1	OCP2	-	8	GND	0V
2	DIMMER	-	2	GND	0V	9	INV-DRV 1H	-
3	BACKLIGHT	-	3	INV-DRV 2L	-	10	GND	0V
4	INV-ERR	-	4	GND	0V	11	V-FBI	-
5	GND	0V	5	INV-DRV 2H	-	12	NC	0V
6	REG 12V	12.0V	6	GND	0V	13	12V	12.0V
7	BALANCER-ERR	-	7	INV-DRV 1L	-	14	Conn Det	-
8	NC	0V						
9	NC	0V	See placement charts for connector location.					

H1 (KEYBOARD) BOARD

H3 (LED’S) BOARD

H4 (LOGO LED’S) BOARD

Warning for Left Balancer/Inverter board Removal #1-789-839-11

PIN	CN3001 PIN ID	Voltage
1	D3.3V	3.3V
2	GND	0V
3	LEAN1	-
4	KEY-WAKE	-
5	POWER-SW	-
6	GND	0V
7	KEY	-
8	GND	0V

PIN	CN3201 PIN ID	Voltage
1	GND	0V
2	STBY 3.3V	3.3V
3	LED-1 STBY	-
4	LED-2 (PMUTE)	-
5	LED-3 (TSUSHIN)	-
6	LED-4 (REC)	-
7	LED-5 (POWER)	-
8	GND	0V
9	SIRCS	-
10	REC-3.3V	-
11	BL-IN	-

PIN	CN3301 PIN ID	Voltage
1	THRU-5V	5.0V
2	LOGO	-
3	E	-

NEVER remove screws holding the plastic backlight socket located to the Left of the Balancer/Inverter board. If these screws are removed the Backlights will pop out of the socket or break requiring an LCD Panel replacement!

Manufactures recommended procedure for the Balancer/Inverter board removal is to remove the five screws holding the shield over the board, remove the shield, disconnect the connector on the right edge of the board then pull the board to the right.

Warning for Right Balancer/Inverter board Removal #1-789-840-11

NEVER remove screws holding the plastic backlight socket located to the Left of the Balancer/Inverter board. If these screws are removed the Backlights will pop out of the socket or break requiring an LCD Panel replacement!

HW2 (VIDEO IN/HEADPHONE) BOARD

TUU2 (DEMOD/TUNER) BOARD

PIN	CN7022 PIN ID	Voltage
1	5V	5.0V
2	BE-ON	-
3	V2-S2	-
4	GND	0V
5	V2-C	-
6	V2-S	-
7	GND	0V
8	GND	0V
9	V2-V	-
10	V2-Y	-
11	GND	0V
12	GND	0V
13	V2-R	-
14	V2-L	-
15	GND	0V
16	GND	0V
17	HP-R	-
18	HP-L	-
19	GND	0V
20	HP-DET	-

PIN	CN7061 PIN ID	Voltage
1	CEC	-
2	GND	0V
3	DDC-SDAS	-
4	DDC-SCLS	-
5	GND	0V
6	TMDS CLK-	-
7	TMDS CLK+	-
8	GND	0V
9	TMDS CHO-	-
10	TMDS CHO+	-
11	GND	0V
12	TMDS CH1-	-
13	TMDS CH1+	-
14	GND	0V
15	TMDS CH2-	-
16	TMDS CH2+	-
17	GND	0V
18	HDMI-INSELS	-
19	DDC-5V-S	5.0V
20	HPD-5	-
21	WP	-

CN1003
Do not measure

Manufactures recommended procedure for the Balancer/Inverter board removal is to remove the five screws holding the shield over the board, remove the shield, disconnect the connector on the left edge of the board then pull the board to the left.

Important Parts Information

- Parts not listed in the parts list are commonly available at your local electronics parts retailer.
- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

See placement charts for connector location.

PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes
D6000	D15XB60	8-719-054-89	-
D6100	M1FM3	8-719-081-67	-
D6101	BAT54HT1	6-500-137-01	-
D6102	MAZ8150G0LS0	6-501-774-01	-
D6104	UF4005/23	8-719-979-64	-
D6105	M1FM3	8-719-081-67	-
D6150	SG10SC6-F5	6-501-545-01	-
D6150, 51	SG10SC6-F5	6-501-545-01	-
D6153	SG10SC6-F5	6-501-545-01	-
D6201	05NU42-TPA2	8-719-058-74	-
D6202	MA2J1110GLS0	6-501-817-01	-
D6203, 04	10ERB20-TB3	6-500-567-31	-
D6250	D1NS6-TR2	6-501-526-01	-
D6305, 06, 07	MA2J1110GLS0	6-501-817-01	-
D6308	MA2J1130GLS0	6-501-818-01	-
D6400	MAZ8150G0LS0	6-501-774-01	-
D6401	MC2838-T112-1	6-500-335-01	-
D6402	MA2J1110GLS0	6-501-817-01	-
D6405	MC2838-T112-1	6-500-335-01	-
D6406	MAZ8100G0LS0	6-501-758-01	-
D6500	MC2838-T112-1	6-500-335-01	-
D6502	BAT54HT1	6-500-137-01	-
D6503	MA2J1110GLS0	6-501-817-01	-
D6506	SF5L60	8-719-055-38	-
D6509	EP05FA20	6-500-108-01	-
D6512	MA2J1110GLS0	6-501-817-01	-
IC6100	CXD9841P	6-707-749-01	-
IC6150	MM1431ATT (CN)	6-709-368-01	-
IC6200	MIP2H2	6-708-801-01	-
IC6250	MM1431ATT (CN)	6-709-368-01	-
IC6300, 01	MM1431ATT (CN)	6-709-368-01	-
IC6500	L6562N	6-709-791-01	-
Q6100, 01	2SK3561LBS1	6-551-302-01	-
Q6301	2SC3052EF-T1-LEF	8-729-620-07	-
Q6303	2SB1122-S	8-729-804-41	-
Q6304	2SC3052EF-T1-LEF	8-729-620-07	-
Q6307	2SC3052EF-T1-LEF	8-729-620-07	-
Q6402, 03	2SC3052EF-T1-LEF	8-729-620-07	-
Q6404, 05	ISA1235AC1TP-1EF	6-551-696-01	-
Q6406, 07, 08	2SC3052EF-T1-LEF	8-729-620-07	-
Q6500	2SC3052EF-T1-LEF	8-729-620-07	-
Q6501	ISA1235AC1TP-1EF	6-551-696-01	-
Q6502, 03	2SK3934LBS1	6-551-336-01	-
Q6505	2SB1122-S	8-729-804-41	-
Q6506	ISA1235AC1TP-1EF	6-551-696-01	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# C6006	680pF 10% 250V	1-114-153-51	-
# C6007	470pF 10% 250V	1-119-892-51	-
# C6010	680pF 10% 250V	1-114-153-51	-
# C6011	470pF 10% 250V	1-119-892-51	-
# C6012	.68 10% 275V	1-165-533-11	-
C6111	.022 3% 1KV	1-100-731-11	-
# C6500	1 10% 450V	1-112-744-61	-
# C6501	1.5 5% 450V	1-112-188-11	-
# C6503	1.5 5% 450V	1-112-188-11	-
# CN6001	AC Connector	1-793-660-11	-
FB6001, 02	Ferrite, 0.45μH	1-410-396-41	-
FB6100, 01	0μH	1-412-911-11	-
FB6150 Thru			
FB6153	0μH	1-412-911-11	-
FB6501, 02	0μH	1-412-911-11	-
# F6000	Fuse	1-576-233-51	6.3A 250V
# FH6000, 01	Fuse Holder	1-533-223-11	-
L6150	10μH	1-406-659-11	-
L6152	4.7μH	1-406-657-11	-
L6250	10μH	1-414-183-41	-
# L6500	260μH	1-457-277-11	-
# L6502	290μH	1-457-445-11	-
PH6100	PC123Y22JOOF	6-600-187-01	-
PH6200	PC123Y22JOOF	6-600-187-01	-
PH6300 Thru			
PH6303	PC123Y22JOOF	6-600-187-01	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# P1	AC Power Cord	1-832-937-11	-
# R6009	6.8 5% 10W	1-240-251-92	-
R6100	39K .5% 1/10W	1-218-885-11	-
R6102	4700.5% 1/10W	1-218-863-11	-
R6103	100.5% 1/10W	1-218-823-11	-
R6104	18K .5% 1/10W	1-218-877-11	-
R6106 Thru			
R6109	1M .5% 1/10W	1-208-854-11	-
R6110	.1 10% 1/2W	1-202-933-61	Fusible
R6111	220K .5% 1/10W	1-218-760-11	-
R6112	18K .5% 1/10W	1-218-877-11	-
R6115	100.5% 1/10W	1-218-823-11	-
R6123	1K .5% 1/10W	1-218-847-11	-
R6153	6800 .5% 1/10W	1-218-867-11	-
R6154	12K .5% 1/10W	1-218-873-11	-
R6156	4700.5% 1/10W	1-218-863-11	-
R6200	10 5% 1/2W	1-212-958-00	Fusible
R6201	5600.5% 1/10W	1-218-865-11	-
R6254, 55	10K .5% 1/10W	1-218-871-11	-
R6302	220K .5% 1/10W	1-218-903-11	-
R6303	39K .5% 1/10W	1-218-885-11	-
R6304	4700.5% 1/10W	1-218-863-11	-
R6309	5600.5% 1/10W	1-218-865-11	-
# R6500, 01	220K .5% 1/10W	1-218-760-11	-
# R6502, 03	100K .5% 1/10W	1-208-830-11	-
# R6504, 05	220K .5% 1/10W	1-218-760-11	-
# R6506	100K .5% 1/10W	1-208-830-11	-
R6530	270K .5% 1/10W	1-208-840-11	-
R6531, 32, 33	220K .5% 1/10W	1-218-760-11	-
R6534	150K .5% 1/10W	1-208-834-11	-
R6535	6800 .5% 1/10W	1-218-867-11	-
R6536	100.5% 1/10W	1-218-823-11	-
R6542	470K .5% 1/10W	1-208-846-11	-
R6543, 44	270K .5% 1/10W	1-208-840-11	-
R6545	3900 .5% 1/10W	1-218-861-11	-
R6546	18K .5% 1/10W	1-218-877-11	-
# RY6000	Relay	1-755-516-11	-
# T6100	Converter (PIT)	1-445-275-11	-
# T6200	Converter (SBT)	1-445-279-11	-
TH6301	Thermistor, Positive	1-809-789-71	-
# VD6000, 01	Varistor	1-804-996-21	-
#	AC Inlet (noise filter)	1-821-380-11	-
#	DC Fan	1-787-677-11	2 used
#	Fan Filter	3-219-408-02	2 used
	LCD PANEL	1-802-491-12	46 Inch
	PC Board (1)	A-1362-637-A	AU
	PC Board (2)	A-1433-189-A	AU
	PC Board	1-789-838-11	(Balancer) ETC-Inverter
	PC Board	A-1253-585-B	DF2
	PC Board	A-1253-586-B	DF3
	PC Board (3)	A-1362-640-A	FB1
	PC Board (4)	A-1418-997-A	FB1
	PC Board	A-1256-154-B	GF1
	PC Board	A-1171-665-A	H1
	PC Board	A-1171-667-A	H3
	PC Board	A-1171-668-A	H4
	PC Board (2)	A-1246-098-A	H5
	PC Board	A-1361-955-A	HW2
	PC Board (5)	A-1269-502-A	TUU2
	PC Board (6)	A-1257-224-A	UB1
	Speaker	1-826-703-21	Right
	Speaker	1-826-703-11	Left
	Transmitter	1-480-301-11	Remote, RM-YD017
	Tuner (5)	-	-

For SAFETY use only equivalent replacement part.
Use Lead Free Solder.
(1) KDL-46XBR4
(2) KDL-46XBR5
(3) Serial #8,000,001 to 8,199,999 & Serial #8,500,001 to 8,599,999 Only.
(4) Serial #8,200,001 to 8,499,999 & Serial #8,600.001 and Up Only.
(5) Tuner not available separately.
(6) Contains critical adjustment replace board.

SONY

KDL-46XBR4/XBR5