Self Diagnosis
Supported model

SERVICE MANUAL

AZ1-N(3a-2) CHASSIS

MODEL	DEST	MODEL	DEST
KDL-22EX302	AEP / UK	KDL-32EX302	AEP / UK
KDL-26EX302	AEP / UK		

RM-ED022

FLAT PANEL COLOR TV

SONY®

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WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

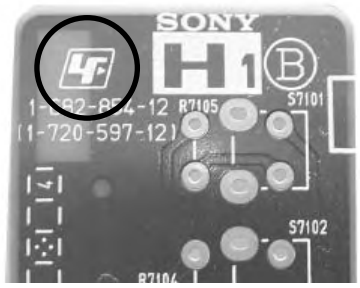
SECTION 1 GENERAL

CAUTION

Lead Free Soldered Boards

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



Lead Free Solder material must be used to comply with environmental requirements of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	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*

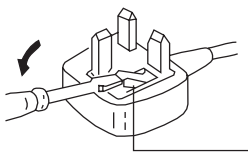
UK PLUG WARNING

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of the correct rating for the set. Should the fuse need to be replaced, use a fuse of the same rating approved by ASTA to **BS 1362**, ie one that carries the ASTA mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with the correct rating fuse, otherwise the circuit should be protected by the same rating fuse at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

LCD PANEL CAUTION

Whilst working on this product, it is not recommended to lay the TV set face down when powered up, as this can result in panel problems. If it is necessary to power up the TV set when face down, the time should be minimised as much as possible.

SPECIFICATIONS

Model name	KDL-46EX4xx	KDL-40BX4/EX4/NX5xx	KDL-37EX4xx	KDL-32BX3/BX4/EX3/EX4/NX5xx	KDL-26EX3xx	KDL-22EX3xx
System						
Panel System	LCD (Liquid Crystal Display) Panel					
TV System	Depending on your country/region selection Analogue: B/G/H, D/K, L, I Digital: DVB-T, DVB-C					
Colour/Video System	Analogue: PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.43 (only video input) Digital: MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC HP@L4.0, MP@L3.0					
Channel Coverage	Analogue: 46.25 - 855.25 MHz Digital: VHF/UHF					
Sound Output	10 W + 10 W (RMS)				8 W + 8 W (RMS)	5 W + 5 W (RMS)
Input/Output jacks						
Aerial	75 ohm external terminal for VHF/UHF					
/S AV1* 1	21-pin scart connector including audio/video input, RGB input, S-Video input, and Analogue TV audio/video output.					
/S AV2* 2	21-pin scart connector including audio/video input, RGB input, S-Video input, and audio/video output.					
COMPONENT IN	Supported formats: 1080p, 1080i, 720p, 576p, 576i, 480p, 480i Y: 1 Vp-p, 75 ohms, 0.3V negative sync/P_B/C_B: 0.7 Vp-p, 75 ohms/ P_R/C_R: 0.7 Vp-p, 75 ohms					
COMPONENT IN	Audio input (phono jacks)					
HDMI IN 1, 2, 3, 4	Video: 1080p, 1080p24, 1080i, 720p, 576p, 576i, 480p, 480i Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital PC (see page 6) Analogue audio (minijack) (HDMI 1 only)					
AV3	Video input (phono jack)					
AV3	Audio input (phono jacks)					
DIGITAL AUDIO OUT (OPTICAL)	Digital optical jack (Two channel linear PCM, Dolby Digital)					
	Audio output (Left/Right) (phono jacks)					
PC IN	PC Input (15 Dsub) (see page 6) G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms/ R: 0.7 Vp-p, 75 ohms, H/V Sync: TTL level PC audio input (minijack)					
	Headphones jack					
	USB port					
	CAM (Conditional Access Module) slot					
Power and others						
Power Requirements	220–240 V AC, 50 Hz					
Screen Size (measured diagonally)	46 inches / Approx. 117 cm	40 inches / Approx. 102 cm	37 inches / Approx. 94 cm	32 inches / Approx. 81 cm	26 inches / Approx. 66 cm	22 inches / Approx. 55 cm
Display Resolution	1,920 dots (horizontal) × 1,080 lines (vertical) (KDL-46EX4xx, KDL-40BX4/EX4/NX5xx, KDL-37EX4xx, KDL-32BX4/EX4/NX5xx) 1,366 dots (horizontal) × 768 lines (vertical) (KDL-32BX3/EX3xx, KDL-26EX3xx, KDL-22EX3xx)					

Model name		KDL-46EX4xx	KDL-40BX4/EX4/NX5xx	KDL-37EX4xx	KDL-32BX3/BX4/EX3/EX4/NX5xx	KDL-26EX3xx	KDL-22EX3xx
Power consumption	in "Home"/"Standard" mode	142 W	110 W	95 W	74 W	52 W	39 W
	in "Shop"/"Vivid" mode	183 W	144 W (KDL-40NX5xx) 146 W (KDL-40EX4/BX4xx)	120 W	93 W (KDL-32BX4/EX4/NX5xx) 94 W (KDL-32BX3/EX3xx)	62 W	46 W
Standby Power Consumption*3		0.19 W					
Off mode Power Consumption		0.18 W					
Average anual energy consumption*4		207 kWh	161 kWh	139 kWh	108 kWh	76 kWh	57 kWh
Dimensions (w × h × d)	(with stand)	112.7 x 71.1 x 29.4 cm	102.3 x 66.5 x 31.0 cm (KDL-40NX5xx) 99.6 x 63.5 x 25.0 cm (KDL-40BX4xx) 99.2 x 63.5 x 25.0 cm (KDL-40EX4xx)	92.1 x 59.9 x 25.1 cm	82.5 x 55.4 x 26.0 cm (KDL-32NX5xx) 80.4 x 53.2 x 22.0 cm (KDL-32BX3/BX4xx) 80.0 x 53.2 x 22.0 cm (KDL-32EX3/EX4xx)	67.2 x 45.9 x 22.0 cm	55.1 x 40.2 x 21.5 cm
	(without stand)	112.7 x 67.4 x 10.2 cm	102.3 x 62.8 x 10.0 cm (KDL-40NX5xx) 99.6 x 59.8 x 9.9 cm (KDL-40BX4xx) 99.2 x 59.8 x 10.0 cm (KDL-40EX4xx)	92.1 x 56.4 x 9.8 cm	82.5 x 51.7 x 10.2 cm (KDL-32NX5xx) 80.4 x 49.7 x 9.6 cm (KDL-32BX3/BX4xx) 80.0 x 49.7 x 9.7 cm (KDL-32EX3/EX4xx)	67.2 x 42.3 x 9.9 cm	55.1 x 36.7 x 8.2 cm
Mass	(with stand)	20.4 kg	22.4 kg (KDL-40NX5xx) 15.6 kg (KDL-40BX4xx) 15.9 kg (KDL-40EX4xx)	13.6 kg	15.5 kg (KDL-32NX5xx) 10.7 kg (KDL-32BX3/BX4xx) 11.0 kg (KDL-32EX3/EX4xx)	8.8 kg	6.6 kg
	(without stand)	18.1 kg	19.2 kg (KDL-40NX5xx) 13.6 kg (KDL-40BX4xx) 13.9 kg (KDL-40EX4xx)	11.6 kg	13.0 kg (KDL-32NX5xx) 9.2 kg (KDL-32BX3/BX4xx) 9.5 kg (KDL-32EX3/EX4xx)	7.3 kg	6.0 kg

*1 AV1 outputs available only for analogue TV.
*2 AV2 outputs watching screen (except PC, HDMI, Component, USB).
*3 Specified standby power is reached after the TV finishes necessary internal processes.
*4 4 hours a day and 365 days a year.

Design and specifications are subject to change without notice.

PC Input Signal Reference Chart for PC IN

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
SVGA	800	600	37.9	60	VESA Guidelines
XGA	1024	768	48.4	60	VESA Guidelines
WXGA	1280	768	47.4	60	VESA
WXGA	1280	768	47.8	60	VESA
WXGA	1360	768	47.7	60	VESA
SXGA	1280	1024	64	60	VESA
UXGA	1600	1200	75	60	VESA
HDTV	1920	1080	67.5	60	EIA

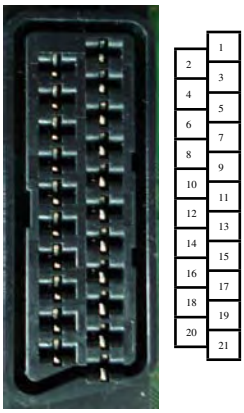
- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency.

PC Input Signal Reference Chart for HDMI IN 1, 2, 3 and 4

Signals	Horizontal (Pixel)	Vertical (Line)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Standard
VGA	640	480	31.5	60	VGA
SVGA	800	600	37.9	60	VESA Guidelines
XGA	1024	768	48.4	60	VESA Guidelines
WXGA	1280	768	47.4	60	VESA
WXGA	1280	768	47.8	60	VESA
WXGA	1360	768	47.7	60	VESA
SXGA	1280	1024	64	60	VESA

CONNECTORS

21 Pin Connector (SCART)

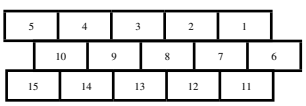


Pin No	AV-1	AV-2	Signal	Signal Level
1	•	•	Audio Output B (Right)	Standard Level: 0.5V rms Impedance: less than 1KΩ*
2	•	•	Audio Input B (Right)	Standard Level: 0.5V rms Impedance: more than 10KΩ*
3	•	•	Audio Output A (Left)	Standard Level: 0.5V rms Impedance: less than 1KΩ*
4	•	•	Ground (Audio)	
5	•	•	Ground (Blue)	
6	•	•	Audio Input A (Left)	Standard Level: 0.5V rms Impedance: more than 10KΩ*
7	•	•	Blue Input	0.7V +/- 3dB, 75Ω, positive
8	•	•	Function Select (AV control)	High State (9.5–12V): AV mode Low State (0–2V): TV mode Impedance: more than 10KΩ* Capacitance: less than 2nF
9	•	•	Ground (Green)	
10	-	•	AV Link	
11	•	•	Green Input	0.7V +/- 3dB, 75Ω, positive
12	-	•	Open	
13	•	•	Ground (Red)	
14	•	•	Ground (Blanking)	
15	•	•	Red Input	0.7V +/- 3dB, 75Ω, positive
	•	•	S signal Chroma Input	0.3V +/-3dB, 75Ω, positive
16	•	•	Blanking Input (Y Signal)	High State (1–3V) Low State (0–0.4V) Impedance: 75Ω
17	•	•	Ground (Video Output)	
18	•	•	Ground (Video Input)	
19	•	•	Video Output	1V +/-3dB, positive sync 0.3V (-3+10dB)
20	•	•	Video Input	1V +/-3dB, positive sync 0.3V (-3+10dB)
	•	•	Video Input Y (S Signal)	1V +/-3dB, positive sync 0.3V (-3+10dB)
21	•	•	Common Ground (Shield)	

HDMI Connector

Pin No	Signal Assignment	Pin No	Signal Assignment
1	TMDS Data2+	11	TDMS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data1+	14	Reserved (N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CEC Ground
8	TMDS Data0 Shield	18	+5V power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		

15 Pin D Sub Connector (PC)



Pin No	Signal Assignment	Pin No	Signal Assignment	Pin No	Signal Assignment
1	Red Output	6	Red Return	11	Monitor IDO in display
2	Green Output	7	Green Return (Ground)	12	DCC Serial Data
3	Blue Output	8	Blue Return (Ground)	13	Horizontal Sync
4	Unused	9	+5V DC	14	Vertical Sync
5	Ground	10	Sync Return (Ground)	15	DCC Serial Clock

AZ1-N SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AZ1-N chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted).

LED Error Codes and Descriptions

Number of LED Flashes	Error Description	Checked	Action
02	Power Supply Protection error.	In normal and factory mode.	Goes into standby.
03	Audio error.	In normal and factory mode.	Goes into standby.
04	Balancer error.	In normal and factory mode.	Goes into standby.
05	Panel Error & Panel ID error	In normal and factory mode.	Goes into standby.
06	Inverter error.	In normal and factory mode.	Goes into standby.
13	NVM error.	In initialisation state.	Adds error to error menu.
14	I2C error.	In normal and factory mode.	Adds error to error menu.
15	Tuner error.	In initialisation state.	Adds error to error menu.
16	DVB-T/C Demod error.	In initialisation state.	Adds error to error menu.
18	USB error.	In normal and factory mode.	Adds error to error menu.
19	CI error.	In normal and factory mode.	Adds error to error menu.

Ver 4.0

Resetting Error Codes (OSD Service Menu)

1. If Software version of the set is older than M8R31 (M8.311), update to latest version.
2. Power Off / Power ON.
3. Apply TT19.
4. Apply TT08. TV switches off and then restarts.
5. Confirm error had disappears.

Note: TT19 is necessary if Factory mode is not enabled.
When Factory Mode is enabled “F” is shown on top right of the screen in TT mode.

SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal

Remove the rear cover fixing screws indicated and then carefully pull the 'Rear Cover' away from the back of the TV set.

Screw Part number(s) and Description(s)

1) 2-580-640-01 SCREW, +BVTP2 4X16 (22" = 8pcs, 26" = 10pcs 32" = 10pcs)
2) 7-685-648-79 SCREW, +BVTP 3X12 (22/26/32" = 2pcs)
3) 2-580-595-01 SCREW, +PSW M3X12 (26/32" = 2pcs)

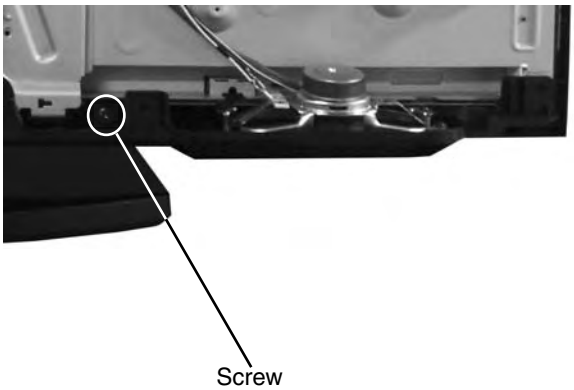
2-2. Stand Assy Removal

Remove the 4 stand fixing screws indicated and lift the TV set up and away from the 'Stand Assy'.

Screw Part number(s) and Description(s)

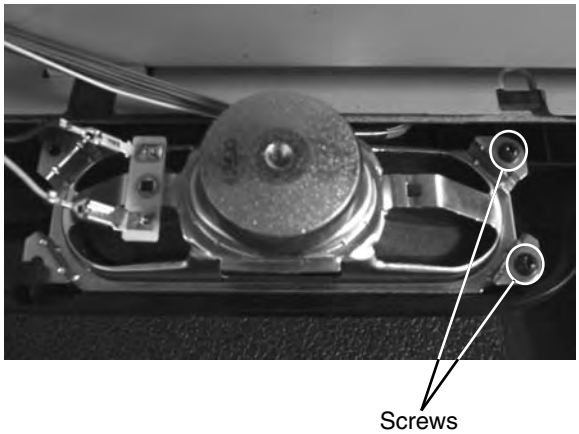
1) 2-580-608-01 SCREW, +PSW M5X16

2-3. Speaker Bracket Removal



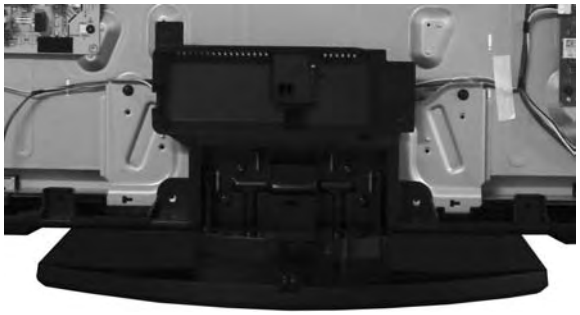
To remove the 'Speaker Bracket' remove the 1 screw circled. Then gently pull the 'Speaker Bracket' away from the back of the TV set.

2-4. Loudspeaker Removal



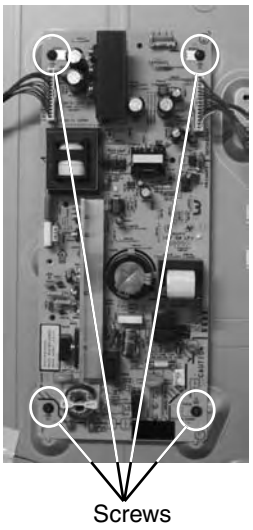
To remove the 'Loudspeaker' first disconnect the loudspeaker connectors and then remove the 2 screws circled. Finally gently pull the 'Loudspeaker' out of the speaker bracket.

2-5. Under Cover Removal



To remove the 'Under Cover' first remove the 'Rear Cover' (See Sec 2-2-1) and then the 'Stand Assy' (See Sec 2-2-2). The 'Under Cover' can then be gently pulled away from the back of the TV set.

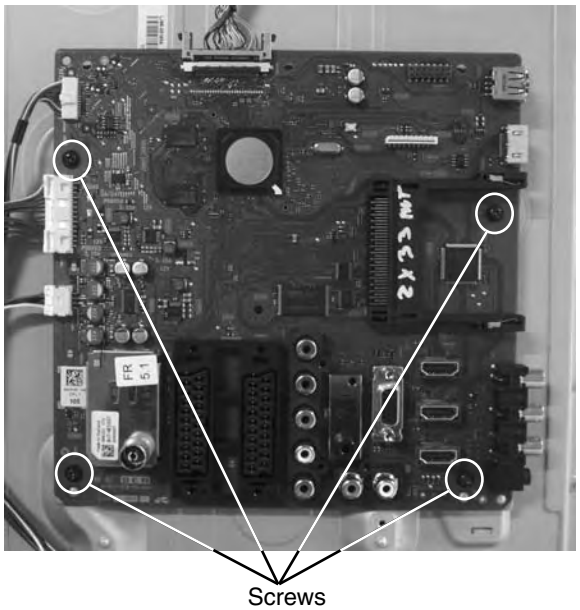
2-6. Static Converter Board Removal



To remove the 'Static Converter' board disconnect all connectors and then remove the 4 screws circled and ease the board gently away from the back of the TV set.

Screw Part number(s) and Description(s)
2-580-629-01 SCREW, +BVST 3X8

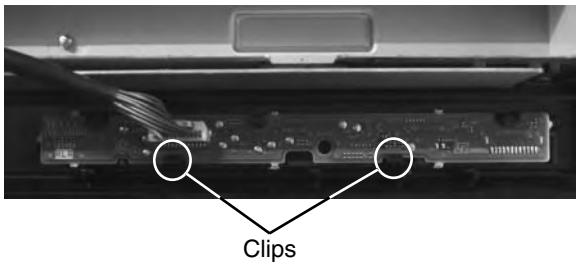
2-7. BEN Board Removal



To remove the 'BEN' board disconnect all connectors and then remove the 4 screws circled and ease the board gently away from the back of the TV set.

Screw Part number(s) and Description(s)
2-580-629-01 SCREW, +BVST 3X8

2-8. HLR Board Removal



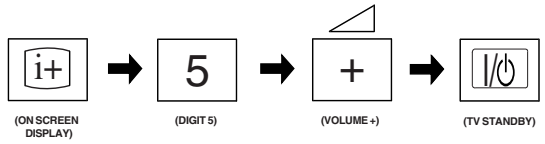
To remove the 'HLR' board first remove the 'Speaker Bracket' (See 2-2-3), then disconnect the 1 connector on the 'HLR' board and release the 2 clips circled and ease the board gently away from the back of the TV set.

SECTION 3 SERVICE MENUS

3-1. How to enter the Service Mode

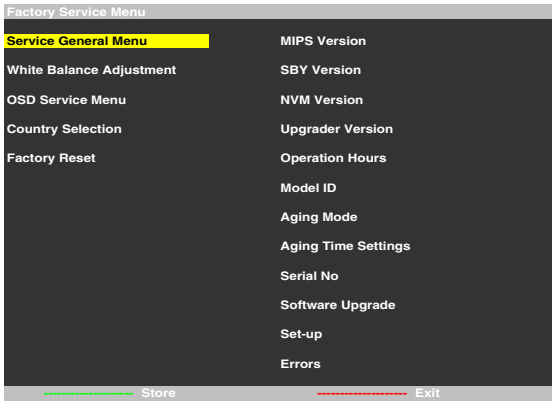
Service adjustments to this model can be performed using the supplied Remote Commander (See front cover).

1. Turn on the power to the TV set.
2. Press the following sequence of buttons on the Remote Commander.



3. The following menu appears on the screen (See Pic.1).

Pic.1



4. Move to the corresponding adjustment item using the ' ↑ ' or ' ↓ ' arrow buttons on the Remote Commander.
5. Press the ' → ' arrow button to enter into the required menu item.
6. Adjust the data value using the ' ↑ ' or ' ↓ ' arrow buttons on on the Remote Commander.
7. To go back at any time press the 'Return' button on the Remote Commander.
8. **Ensure you return to the top level menu, shown above in Pic 1, and press the Green button on the Remote Commander to Store all the adjustments.**
9. Press the Red button or 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON again.

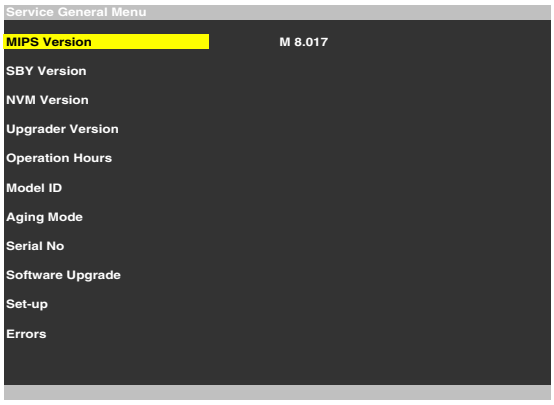
3-2. Service Menu Structure

The following descriptions show the items that can be viewed and/or adjusted using the Service Menu.

3-2-1. Service General Menu

The following menu appears on the screen when you enter the 'Service General Menu' (See Pic.2). This menu allows you to view the product information, set the TV into Aging Mode and perform Software Upgrade to the TV set.

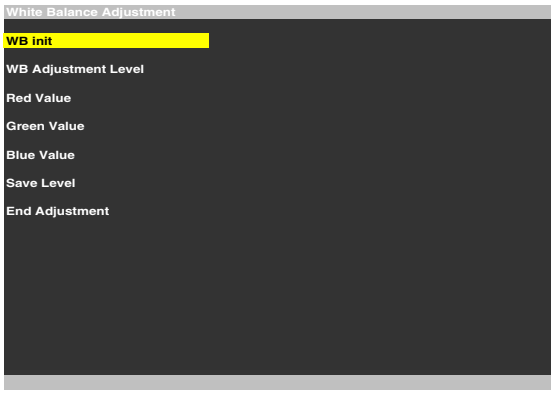
Pic.2



3-2-2. White Balance Adjustment

The following menu appears on the screen when you enter the 'White Balance Adjustment' menu (See Pic.3). This menu allows adjustment of the TV picture levels. These adjustments are set during manufacture and should not normally require further adjustment.

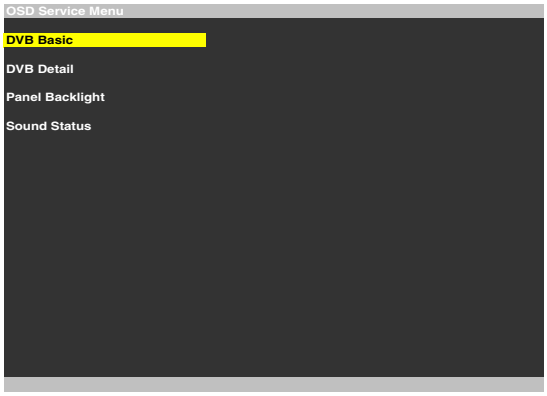
Pic.3



3-2-3. OSD Service Menu

The following menu appears on the screen when you enter the ‘OSD Service Menu’ (See Pic.4). This menu allows viewing and adjustment of the AGC and viewing of the Sound Status.

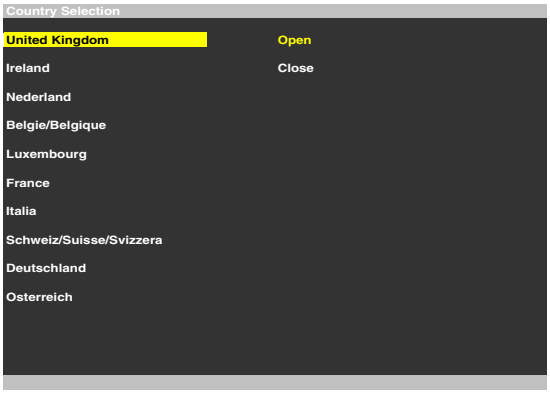
Pic.4



3-2-4. Country Selection

The following menu appears on the screen when you enter the ‘Country Selection’ menu (See Pic.5). Using this menu the destination country of the TV can be set.

Pic.5



3-2-5. Factory Reset

Selection of ‘Factory Reset’ (See Pic.6) allows the TV to be reset to factory shipping condition. This will restore all settings to those which were contained in the TV on first shipment.

Pic.6

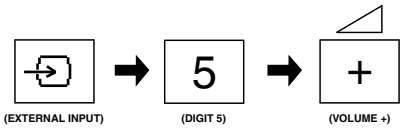
3-3. TT MODE

The TT modes described below are available by selecting the two relevant digits. You can exit the 'TT Mode' by entering 00, by pressing the 'Analog' or the 'Digital' button, by switching the TV set into stand-by mode, or by powering the TV set off.

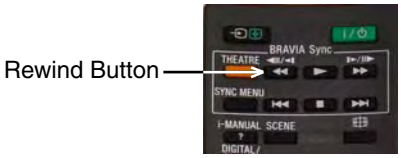
00	'TT' mode off
03	Set volume to 35%
04	Set volume to 50%
05	Set volume to 65%
06	Set volume to 80%
07	Ageing mode on
08	Shipping Condition
09	WB Levels Check
11	Panel_id A
12	Panel_id B
15	Speaker_id A
16	Speaker_id B
19	Factory toggle mode (ON/OFF)
27	CBA mode toggle (ON/OFF)
31	ECS mode toggle (ON/OFF)
32	Set DVB-T channel table
33	Set DVB-C channel table
36	Full HD HDMI EDID Write
37	WXGA HDMI EDID Write
41	Re-initialise NVM
43	Select Dual Sound "A"
44	Select Dual Sound "B"
45	Select Dual Sound "Mono"
46	Select Dual Sound "Stereo"
48	Set NVM as non-virgin
49	Set NVM as virgin
51	Clear authenticated CAM History
52	Clear service shunning cache
53	Enable/Disable DVB-C manual tuning
75	Set Centred Balance
76	Set Volume to Max
77	Set Volume to Min
78	Set Balance Full Left
79	Set Balance Full Right
81	Digital BER Display
84	TS CI Path Through
87	Front Panel Button Test
89	LED Test
92	TS CI Path Through With Reed Solomon Off

Note :

To place the Remote Commander in 'TT Mode' press the following buttons together for approximately five seconds.



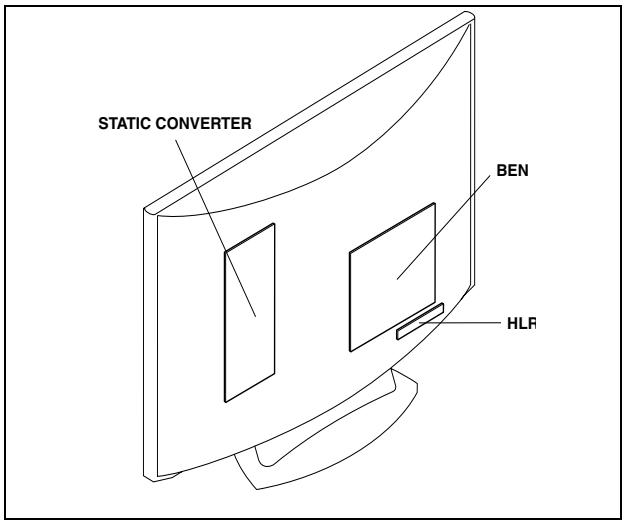
To use the Remote Commander in 'TT Mode' press the 'Rewind' button on the Remote Commander twice.



TT will then appear in the bottom right hand corner of the TV.

To take the Remote Commander out of 'TT Mode' press the same buttons together for approximately five seconds.

4-2. CIRCUIT BOARD LOCATION



4-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
- pF : µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: 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

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

Note : The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

SECTION 5
EXPLODED VIEWS

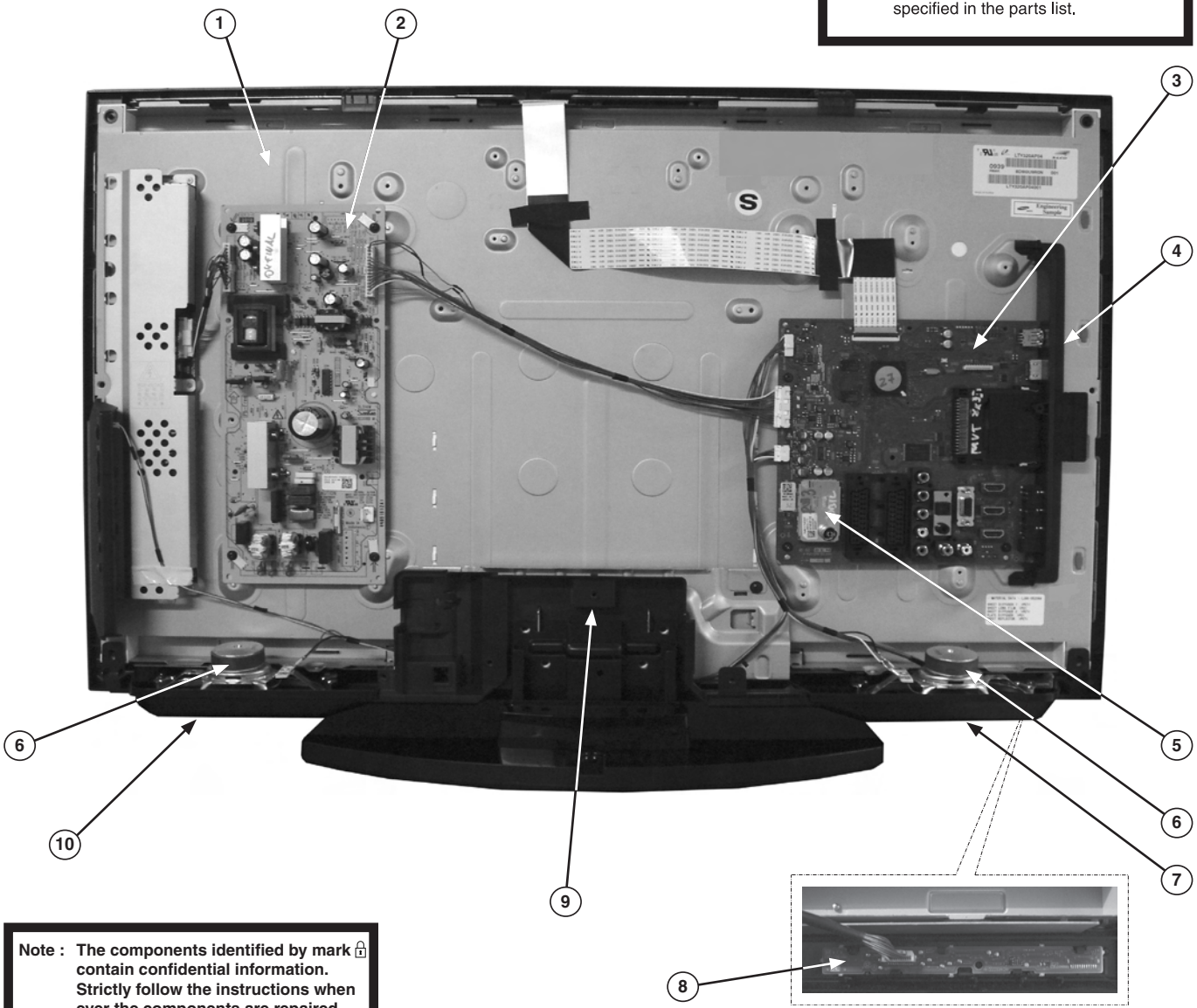
NOTE :

- Non-serviceable items with no part number and no description are not stocked because they are not required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

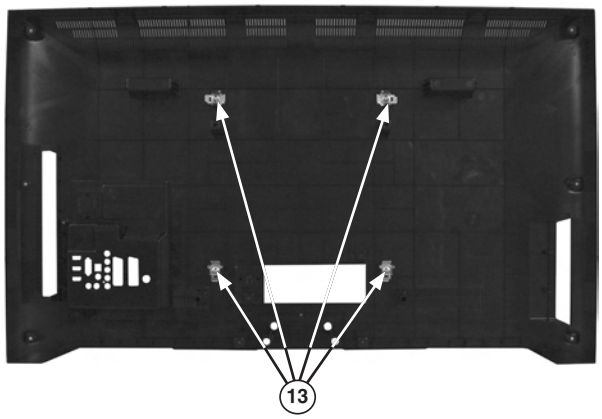
5-1. CHASSIS



Note : **The components identified by mark 🔒 contain confidential information. Strictly follow the instructions when ever the components are repaired and/or replaced.**

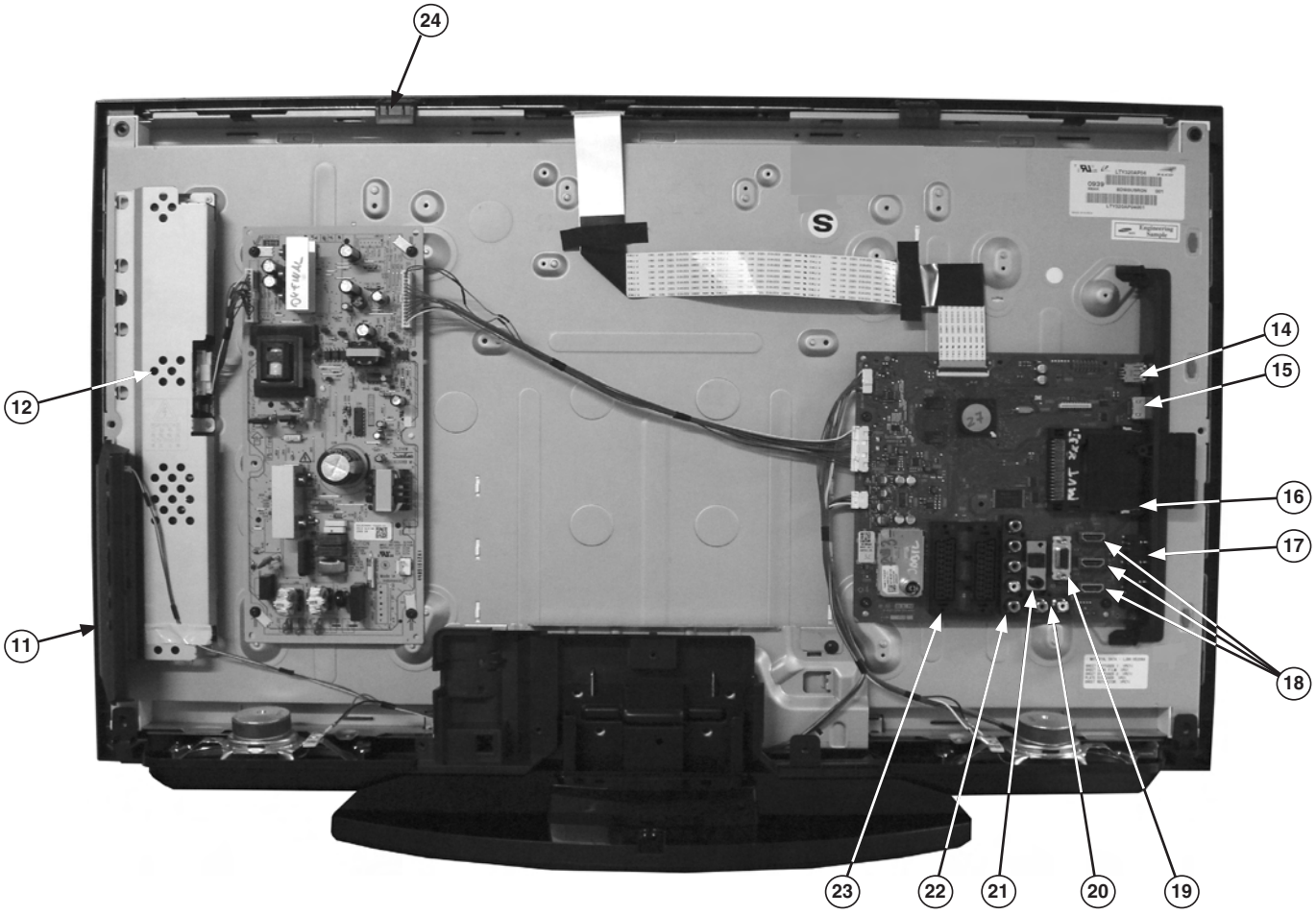
REF.NO.		PART.NO	DESCRIPTION	REMARK
1	⚠	1-811-070-12	LCD PANEL (A216V3)	22 inches
	⚠	1-811-071-11	LCD PANEL (A26V0)	26 inches
	⚠	1-811-058-11	LCD PANEL (S32TSC)	32 inches
2		1-474-204-31	STATIC CONVERTER(TV)	22 inches
		1-474-199-11	STATIC CONVERTER(TV)	26 inches
		1-474-208-11	STATIC CONVERTER(TV)	32 inches
3	🔒	A-1763-565-A	BEN BOARD, COMPLETE	
4		4-164-508-01	BRACKET, SIDE JACK	
5		8-597-735-00	UNIVERSAL SIL-TU SUT-AE102T	
6		1-858-339-11	LOUDSPEAKER(4x10cm)	22 inches
		1-858-341-11	LOUDSPEAKER(4x10cm)	26 inches
		1-858-364-13	LOUDSPEAKER(4.5x12.5cm)	32 inches
7		4-164-517-01	BRACKET, SP (26L)	26 inches
		4-164-507-01	BRACKET, SP (32L)	32 inches
8		A-1763-559-A	HLR BOARD, COMPLETE	
9		4-125-784-21	COVER, UNDER (22)	22 inches
		4-164-515-01	COVER, UNDER (26)	26 inches
		4-164-509-02	COVER, UNDER (32)	32 inches
10		4-164-516-01	BRACKET, SP (26R)	26 inches
		4-164-506-01	BRACKET, SP (32R)	32 inches

5-1. CHASSIS Cont.



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.



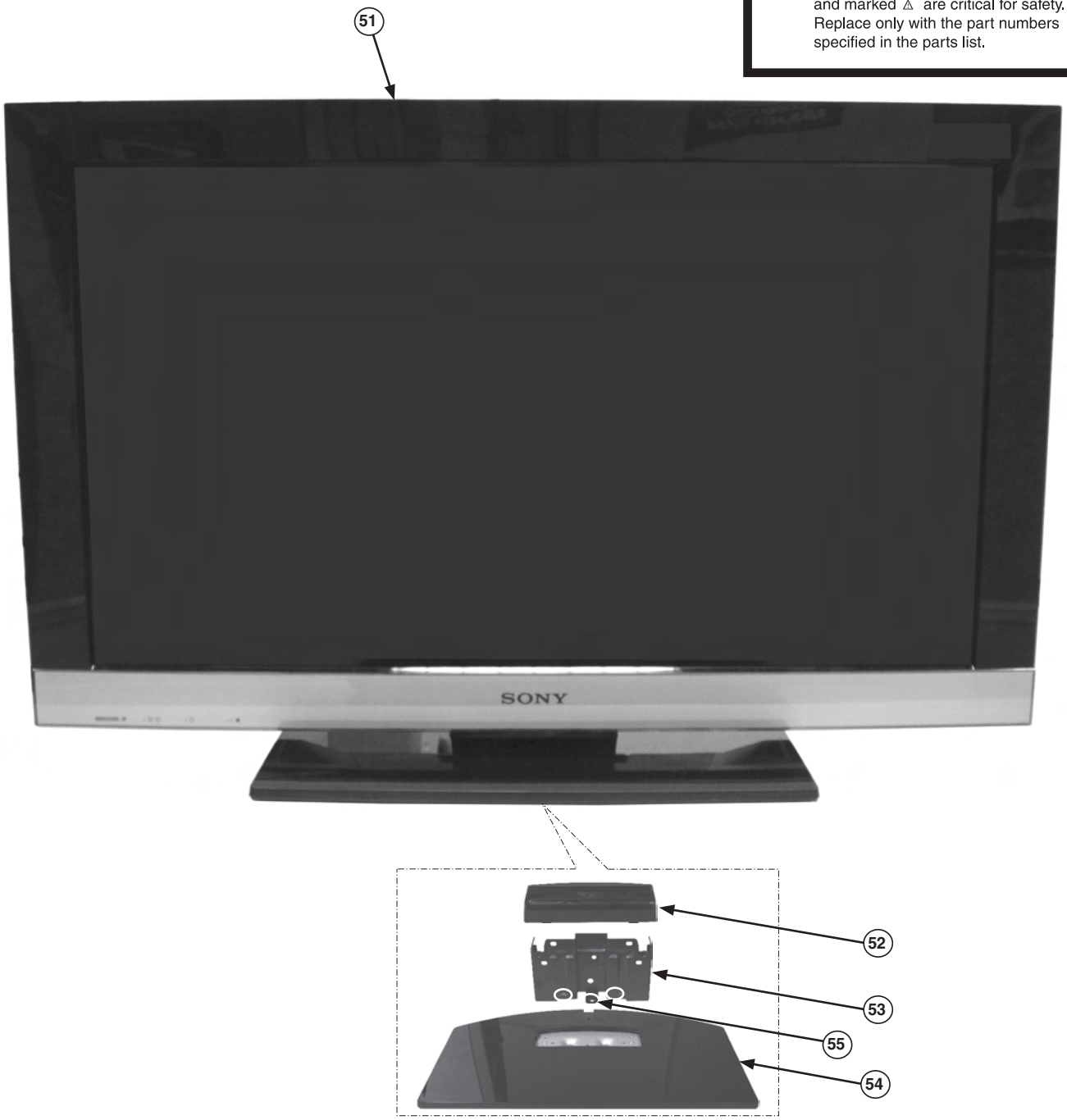
REF.NO.	PART.NO	DESCRIPTION	REMARK
11	1-487-752-11	SWITCH UNIT	22 inches
	1-487-728-11	SWITCH UNIT	26/32 inches
12	1-857-634-11	INVERTER MT BOARD	32 inches
13	4-127-133-01	PLATE, VESA	22 inches
	4-163-972-01	BRACKET, VESA (SS)	26 inches
	4-163-973-01	BRACKET, VESA (S)	32 inches
14	1-821-834-12	USB CONNECTOR	
15	1-822-637-11	HDMI CONNECTOR	

REF.NO.	PART.NO	DESCRIPTION	REMARK
16	1-822-579-31	CARD CONNECTOR (PCMCIA CARD)	
17	1-822-581-22	MULTIPLE PHONO JACK 4P	
18	1-822-638-11	HDMI CONNECTOR	
19	1-842-087-11	D SUB CONNECTOR	
20	1-822-524-41	PHONO JACK 2P	
21	1-822-954-11	PHONO BLOCK, OPTICAL OUT	
22	1-822-523-11	PHONO JACK 5P	
23	1-822-580-21	CONNECTOR DUAL SCART	
24 Ver 3.0	4-164-512-01	SUPPORT, PANEL	

5-2. BEZEL ASSY & STAND ASSY

Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

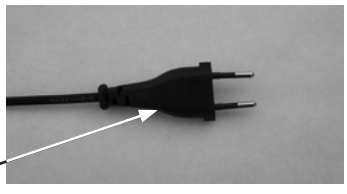


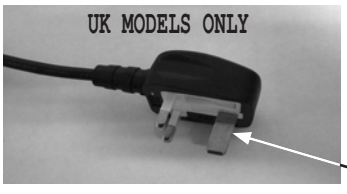
REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-2515-385-1	BEZEL (CY22) ASSY	22 inches
	X-2541-764-1	BEZEL (CY26) ASSY	26 inches
	X-2541-763-1	BEZEL (CY32) ASSY	32 inches
52	4-158-399-11	COVER, NECK (S3B)	22 inches
	4-168-098-01	COVER, NECK (M3B)	26/32 inches
53	4-158-353-01	NECK (S3B)	22 inches
	4-163-976-01	NECK (M3B)	26/32 inches
54	X-2541-849-1	BASE (S3B) ASSY	22 inches
	X-2541-767-1	BASE (M3B) ASSY	26/32 inches
55 Ver 2.0	4-159-298-01	SCREW, +PSW M4X10	

5-3. REAR COVER ASSY & POWER SUPPLY CORDS

Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.





REF.NO.		PART.NO	DESCRIPTION	REMARK
101		X-2541-796-2	REAR COVER (22) ASSY	22 inches
		X-2541-766-1	REAR COVER (26) ASSY	26 inches
		X-2541-765-1	REAR COVER (32) ASSY	32 inches
102		*3-299-466-31	ECS COVER	
103	⚠	1-837-454-11	POWER-SUPPLY CORD (AEP)	22/26/32 inches
104	⚠	1-837-455-11	POWER-SUPPLY CORD (UK)	22/26/32 inches

SECTION 6
PARTS LIST

PARTS LISTING TABLE OF CONTENTS

	Page
ACCESSORIES AND CONNECTORS :	21
REMOTE COMMANDER :	21

Note: To ensure safety and reliability it is Sony policy that boards should not be repaired in the field, as a result all boards are regarded as non service items for exchange only and are not indicated in the parts list of this service manual.

Note : Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

REF.NO.	PART.NO	DESCRIPTION	REMARK

ACCESSORIES AND CONNECTORS

22 INCHES

	1-837-626-11	FLEXIBLE FLAT CABLE 30P (TCON-BEN(CN4300))
*	1-910-060-70	MAIN MULTI HARNESS SPEAKER

26 INCHES

	1-837-627-11	FLEXIBLE FLAT CABLE (TCON-BEN(CN4300))
*	1-910-060-71	MAIN MULTI HARNESS SPEAKER (BEN-G1L-HLR-SWITCH UNIT-SPEAKERS)
*	1-910-060-72	CONNECTOR ASSY 14P (INVERTER-G1L)

32 INCHES

	1-837-662-11	FLEXIBLE FLAT CABLE (TCON-BEN(CN4301))
*	1-910-060-73	CONNECTOR ASSY 15P (G2L(CN6401-BEN(CN6006))
*	1-910-060-74	MULTI HARNESS SPEAKER BEN(CN6007/7901)-HLR-SWITCH UNIT-SPEAKERS)
*	1-910-060-77	CONNECTOR ASSY 14P (G2L(CN6402)-INVERTER)

INSTRUCTION MANUALS

*	4-168-148-12	INSTRUCTION MANUAL (U) ENGLISH
*	4-168-148-22	INSTRUCTION MANUAL (E) GERMAN/SPANISH/FRENCH/ITALIAN/DUTCH/PORTUGUESE
*	4-168-148-32	INSTRUCTION MANUAL (K) BULGARIAN/CZECH/DANISH/FINNISH/GREEK/HUNGARIAN/NORWEGIAN/POLISH/ROMAINIAN/SWEDISH/SLOVAK/TURKISH
*	4-168-148-43	INSTRUCTION MANUAL (R) RUSSIAN/UKRAINIAN

REMOTE COMMANDER

	1-487-828-11	REMOTE COMMANDER (RM-ED022)

Self Diagnosis
Supported model

ELECTRICAL SERVICE MANUAL

AZ1-N(3a-2) CHASSIS

MODEL	DEST	MODEL	DEST
KDL-22EX302	AEP / UK	KDL-32EX302	AEP / UK
KDL-26EX302	AEP / UK		

RM-ED022

FLAT PANEL COLOR TV

SONY®

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G1LS Board Schematic Diagram (26 inches) 19
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HLR Printed Wiring Board 23
GD1 Printed Wiring Board (22 inches) 24
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G2LS Printed Wiring Board (32 inches) 26

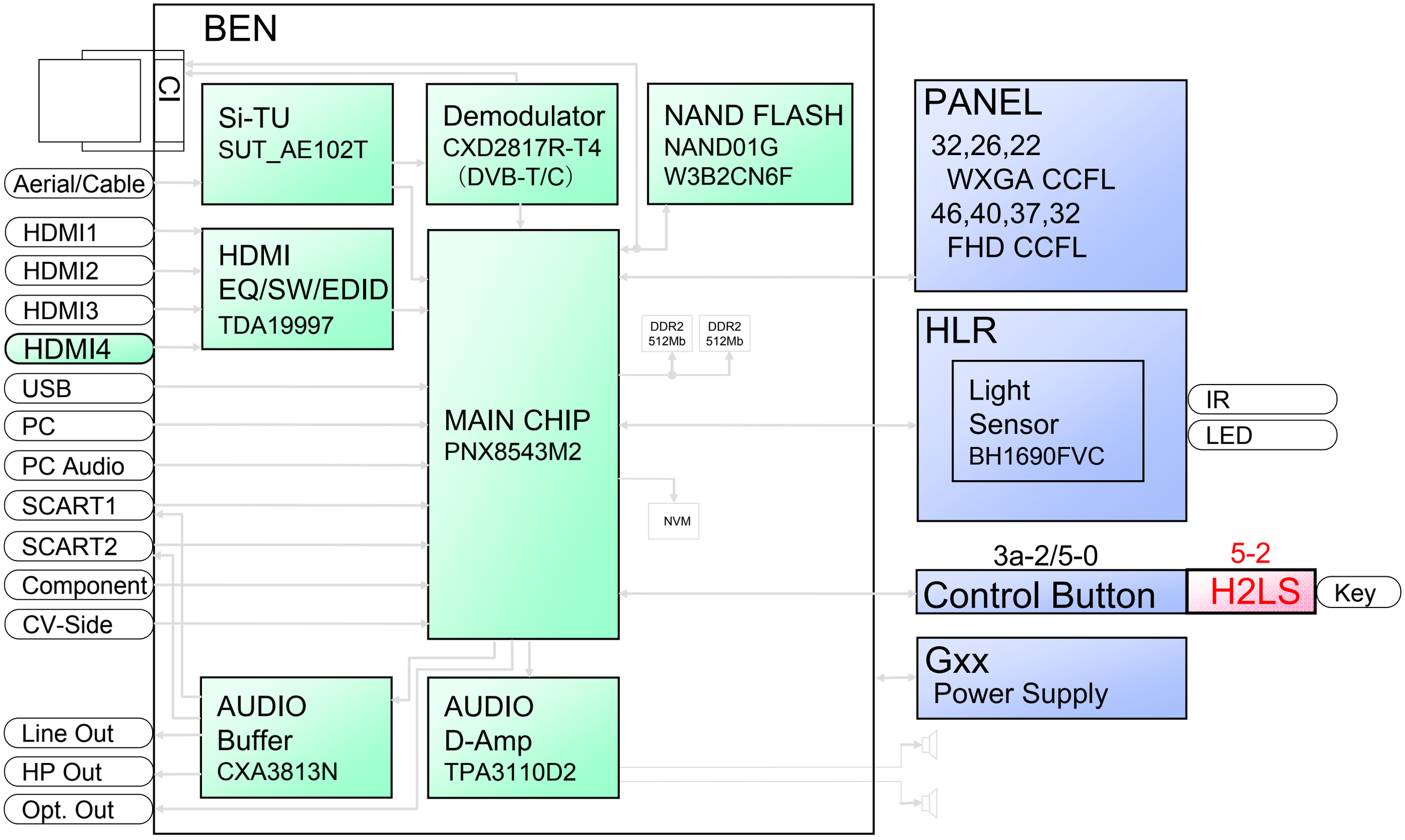
2. PARTS LIST 27

WARNING !!

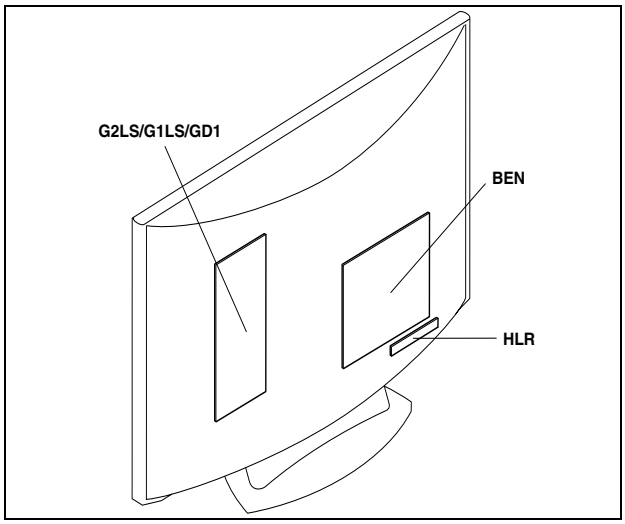
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.


BEN
CI
Si-TU
SUT_AE102T
Demodulator
CXD2817R-T4
(DVB-T/C)
NAND FLASH
NAND01G
W3B2CN6F
PANEL
32,26,22
WXGA CCFL
46,40,37,32
FHD CCFL
Aerial/Cable
HDMI1
HDMI2
HDMI3
HDMI4
USB
PC
PC Audio
SCART1
SCART2
Component
CV-Side
HDMI
EQ/SW/EDID
TDA19997
DDR2
512Mb
DDR2
512Mb
MAIN CHIP
PNX8543M2
NVM
HLR
Light
Sensor
BH1690FVC
IR
LED
3a-2/5-0
5-2
Control Button
H2LS
Key
Gxx
Power Supply
AUDIO
Buffer
CXA3813N
AUDIO
D-Amp
TPA3110D2
Line Out
HP Out
Opt. Out

1-2. CIRCUIT BOARD LOCATION



1-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
- pF : µµF 50WV or less are not indicated except for electrolytic types.
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Pitch : 5mm
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- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
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- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- : B + bus.
- : B - bus.
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- : earth - chassis.

Reference Information

RESISTOR	**RN**	: METAL FILM
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	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: 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

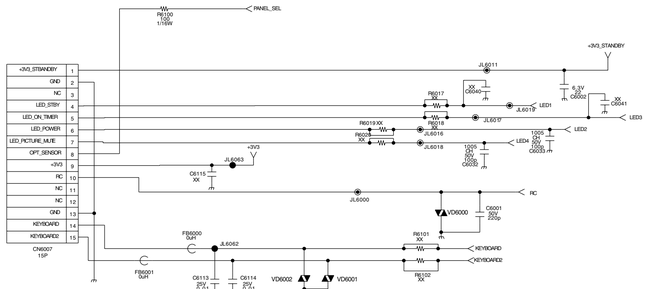
Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.

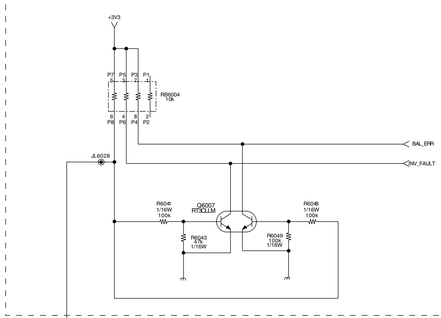
Note : The components identified by mark 🔒 contain confidential information.
Strictly follow the instructions whenever the components are repaired and/or replaced.

NOTE: Schematic diagrams are for reference only. Please refer to the electrical parts list for the correct value and part number of components.

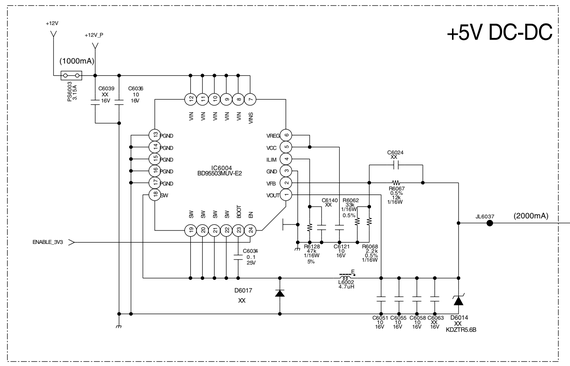
BEN-AZ1N



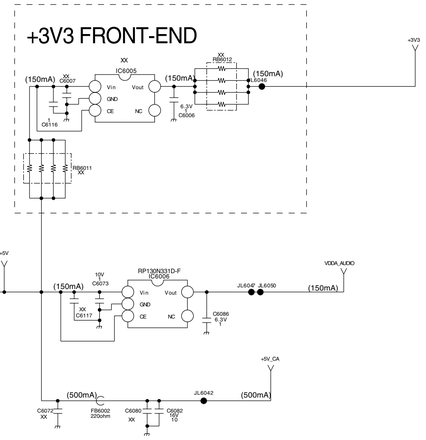
Inv-error & bal-error



+5V DC-DC

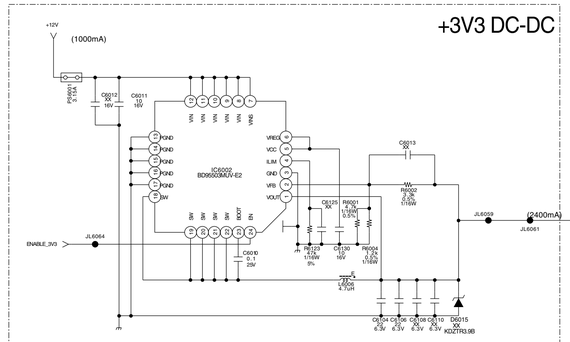


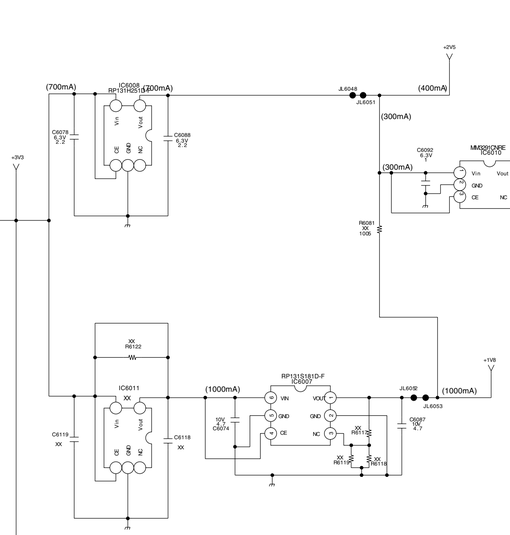
+3V3 FRONT-END



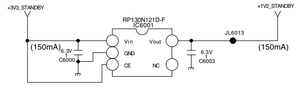
Lamp-on-off

+3V3 DC-DC

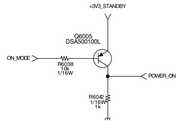




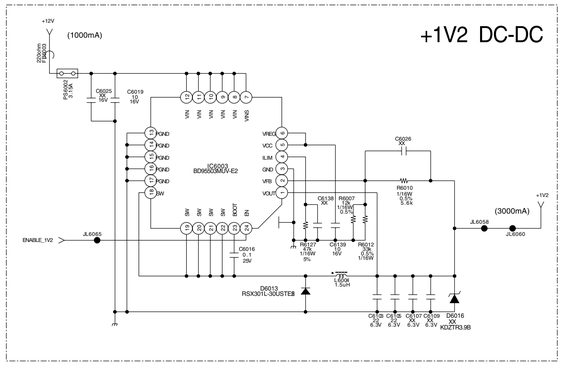
+1V2_STANDBY



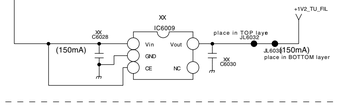
Power-on



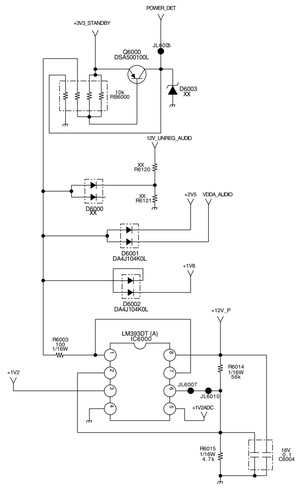
+1V2 DC-DC



+1V2_TU



POWER_DET

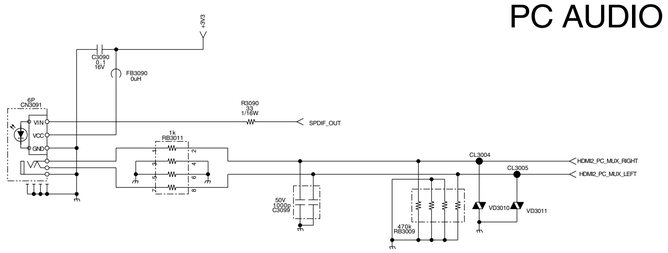


BEN 1/12 MAIN FUNCTION

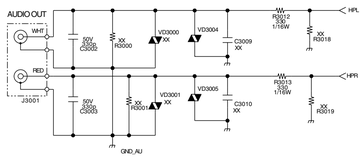
COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

BEN 2/12

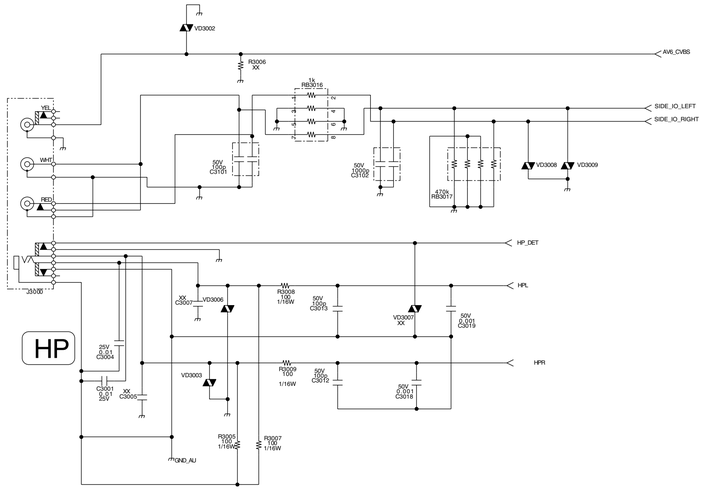
PC AUDIO INPUT



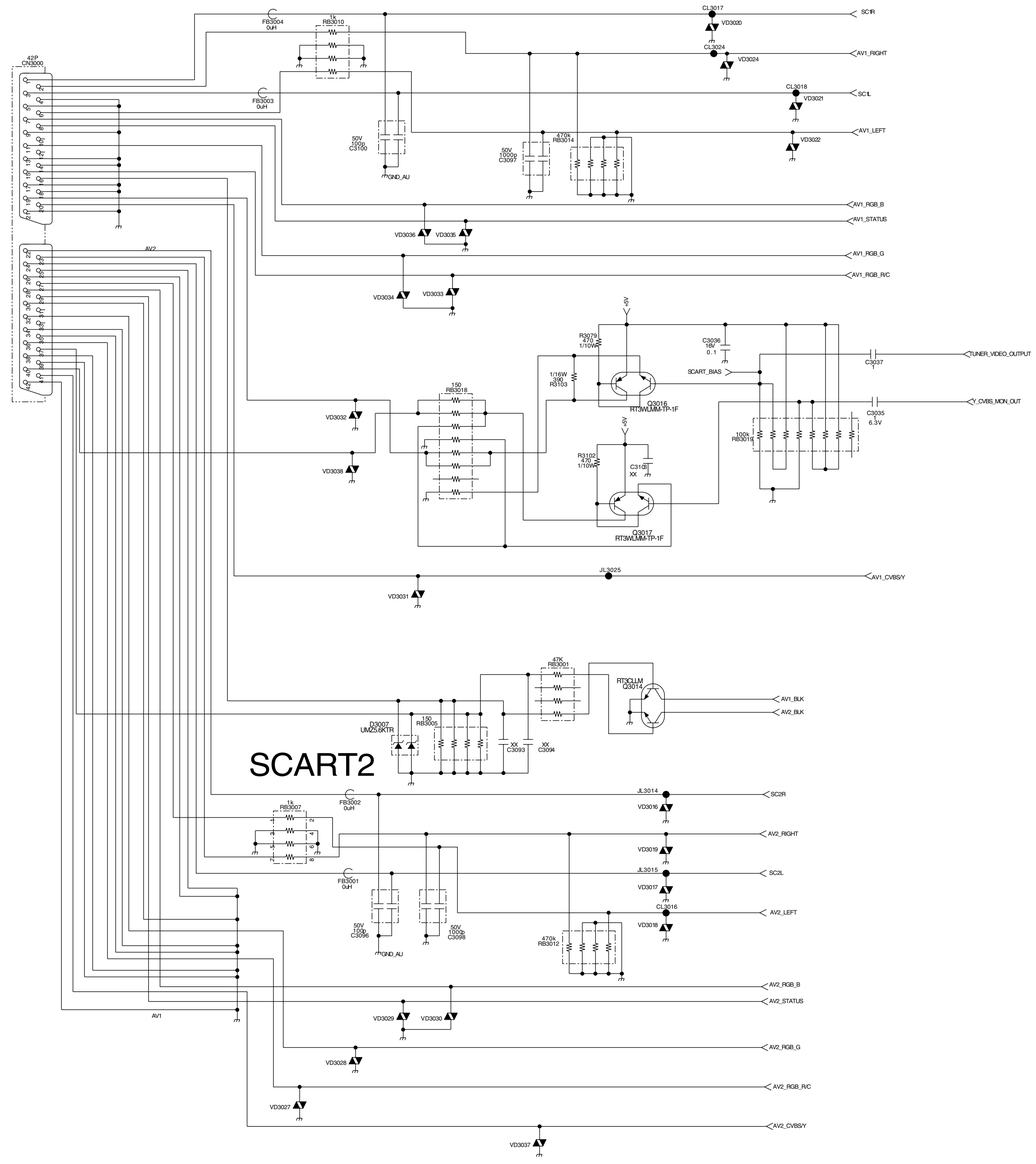
LINE OUT



LATERAL A/V CONNECTOR

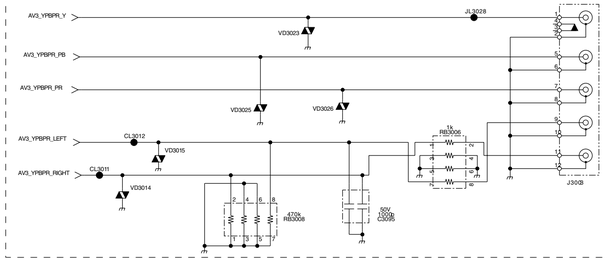


SCART1



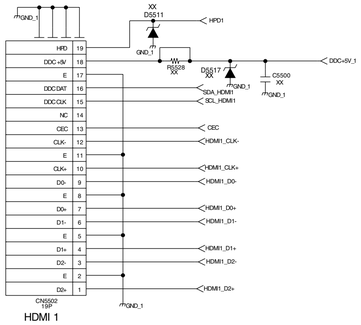
SCART2

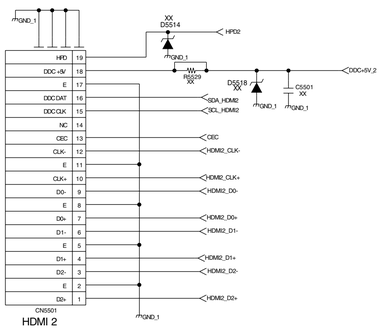
COMPONENT INPUT

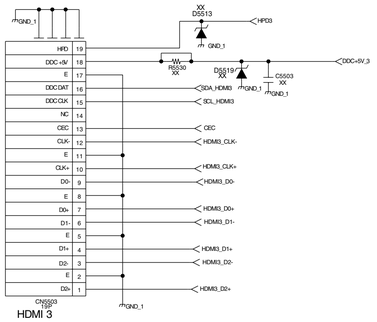


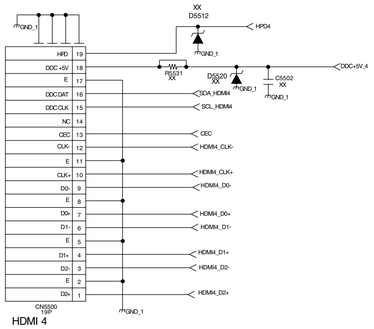
COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

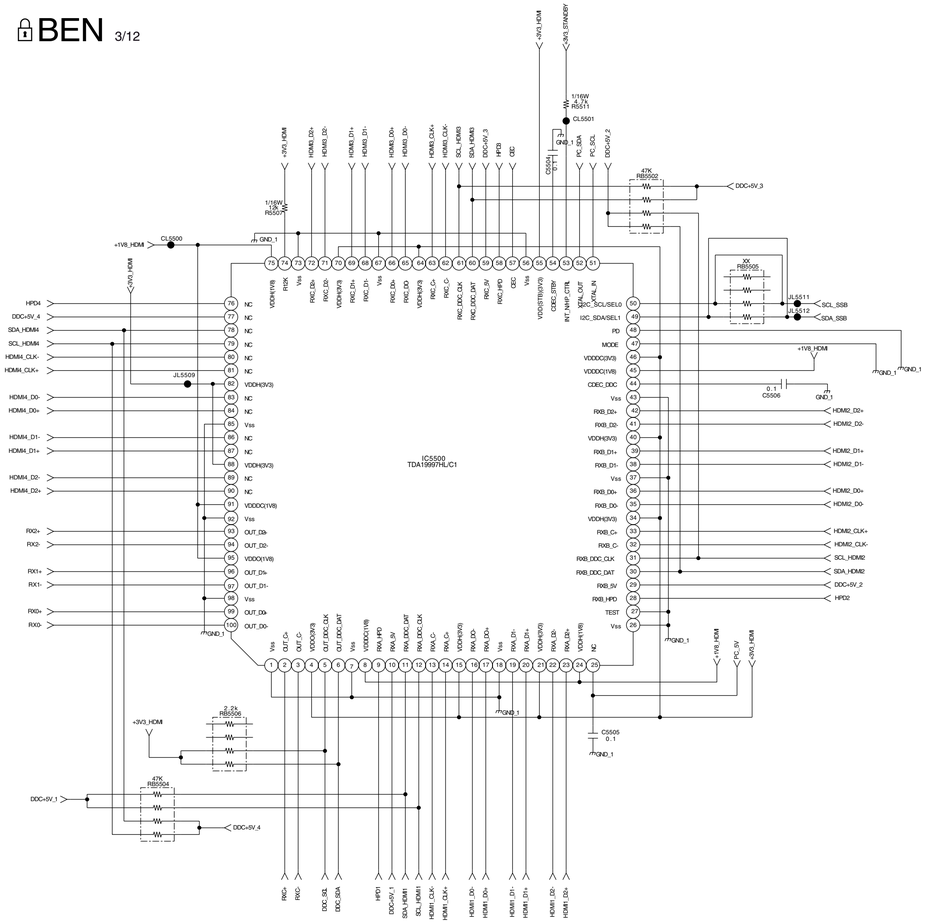
BEN 3/12

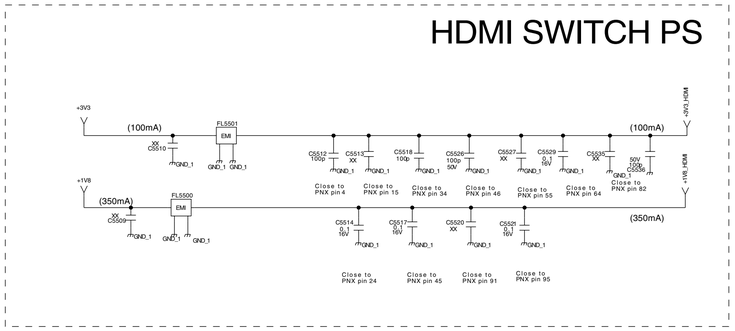

HPD 19
DDC +5V 18
E 17
DDC DAT 16
DDC CLK 15
NC 14
CEC 13
CLK- 12
E 11
CLK+ 10
D0- 9
E 8
D0+ 7
D1- 6
E 5
D1+ 4
D2- 3
E 2
D2+ 1
CN5502 19P
HDMI 1
D5511
HPD1
R5528 XX
D5517 XX
C5500 XX
DDC+5V_1
SDA_HDMI1
SCL_HDMI1
CEC
HDMI1_CLK-
HDMI1_CLK+
HDMI1_D0-
HDMI1_D0+
HDMI1_D1-
HDMI1_D1+
HDMI1_D2-
HDMI1_D2+
GND_1

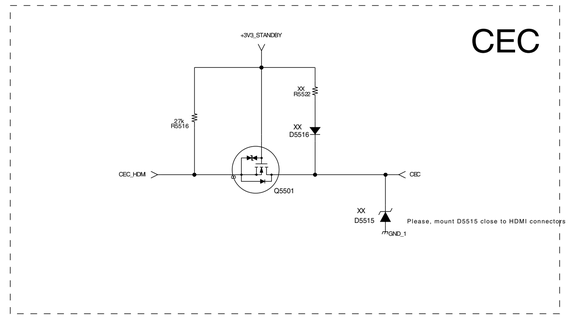

HPD 19
DDC +5V 18
E 17
DDC DAT 16
DDC CLK 15
NC 14
CEC 13
CLK- 12
E 11
CLK+ 10
D0- 9
E 8
D0+ 7
D1- 6
E 5
D1+ 4
D2- 3
E 2
D2+ 1
CN5501
HDMI 2
D5514
HPD2
R5529 XX
D5518 XX
C5501 XX
DDC+5V_2
SDA_HDMI2
SCL_HDMI2
CEC
HDMI2_CLK-
HDMI2_CLK+
HDMI2_D0-
HDMI2_D0+
HDMI2_D1-
HDMI2_D1+
HDMI2_D2-
HDMI2_D2+
GND_1

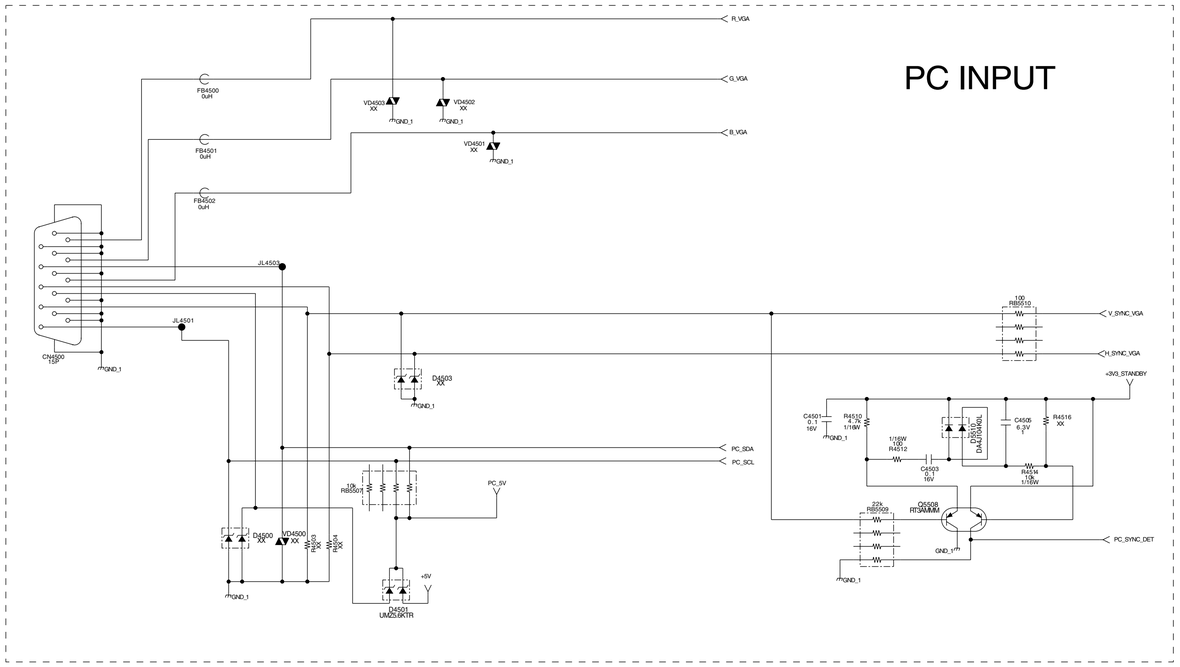

HPD 19
DDC +5V 18
E 17
DDC DAT 16
DDC CLK 15
NC 14
CEC 13
CLK- 12
E 11
CLK+ 10
D0- 9
E 8
D0+ 7
D1- 6
E 5
D1+ 4
D2- 3
E 2
D2+ 1
CN5503 19P
HDMI 3
D5513
HPD3
R5530 XX
D5519 XX
C5503 XX
DDC+5V_3
SDA_HDMI3
SCL_HDMI3
CEC
HDMI3_CLK-
HDMI3_CLK+
HDMI3_D0-
HDMI3_D0+
HDMI3_D1-
HDMI3_D1+
HDMI3_D2-
HDMI3_D2+
GND_1

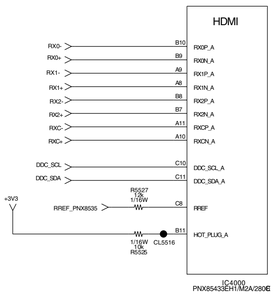

HPD 19
DDC +5V 18
E 17
DDC DAT 16
DDC CLK 15
NC 14
CEC 13
CLK- 12
E 11
CLK+ 10
D0- 9
E 8
D0+ 7
D1- 6
E 5
D1+ 4
D2- 3
E 2
D2+ 1
CN5500 19P
HDMI 4
SIDE
D5512
HPD4
R5531 XX
D5520 XX
C5502 XX
DDC+5V_4
SDA_HDMI4
SCL_HDMI4
CEC
HDMI4_CLK-
HDMI4_CLK+
HDMI4_D0-
HDMI4_D0+
HDMI4_D1-
HDMI4_D1+
HDMI4_D2-
HDMI4_D2+
GND_1


IC5500
TDA19997HL/C1
+3V3_HDMI
+3V3_STANDBY
CL5501
1/16W 10k R5511
CL5500
+1V8_HDMI
1/16W 10k R5502
47K R85002
DDC+5V_3
JL5511
JL5512
SCL_SSB
SDA_SSB
JL5509
0.1 C5506
HDMI2_D2+
HDMI2_D2-
HDMI2_D1+
HDMI2_D1-
HDMI2_D0+
HDMI2_D0-
HDMI2_CLK+
HDMI2_CLK-
SCL_HDMI2
SDA_HDMI2
DDC+5V_2
HPD2
HPD4
DDC+5V_4
SDA_HDMI4
SCL_HDMI4
HDMI4_D0-
HDMI4_D0+
HDMI4_D1-
HDMI4_D1+
HDMI4_D2-
HDMI4_D2+
HDMI4_CLK-
HDMI4_CLK+
RX2-
RX2+
RX1-
RX1+
RX0-
RX0+
0.2k R85006
47K R85004
DDC+5V_1
DDC+5V_4
C5505 0.1
PC_5V
+3V3_HDMI
RXC-
RXC+
DDC_SCL
DDC_SDA
HPD1
DDC+5V_1
SDA_HDMI1
SCL_HDMI1
HDMI1_CLK-
HDMI1_CLK+
HDMI1_D0-
HDMI1_D0+
HDMI1_D1-
HDMI1_D1+
HDMI1_D2-
HDMI1_D2+


HDMI SWITCH PS
+3V3
(100mA)
FL5501
EMI
C5510
+1V8
(350mA)
FL5500
C5509
+3V3_HDMI
+1V8_HDMI
C5512 100p
C5513 XX
C5518 100p
C5526 100p 50V
C5527 XX
C5529 0.1 16V
C5535 XX
50V C5536
Close to PNX pin 4
Close to PNX pin 15
Close to PNX pin 34
Close to PNX pin 46
Close to PNX pin 55
Close to PNX pin 64
Close to PNX pin 82
C5514 0.1 16V
C5517 0.1 16V
C5520 XX
C5528 0.1 16V
Close to PNX pin 24
Close to PNX pin 45
Close to PNX pin 91
Close to PNX pin 95
GND_1

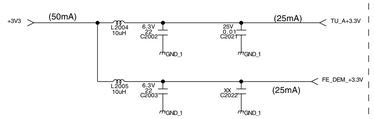

CEC
+3V3_STANDBY
R5516 XX
R5532 XX
D5516 XX
Q5501
CEC_HDMI
CEC
D5515 XX
Please, mount D5515 close to HDMI connectors
GND_1


PC INPUT
R_VGA
G_VGA
B_VGA
FB4500 0uH
FB4501 0uH
FB4502 0uH
VD4503 XX
VD4502 XX
VD4501 XX
JL4503
JL4501
CN4500 15P
D4503 XX
100 R85010
V_SYNC_VGA
H_SYNC_VGA
+3V3_STANDBY
C4501 0.1 16V
R4510 4.7K 1/16W
R4512 1/16W 10k
C4503 0.1 16V
C4505 6.3V
R4516 XX
R4514 10k 1/16W
C4506 RT3VMUM
PC_SYNC_DET
PC_SDA
PC_SCL
PC_5V
10k R85007
D4500 XX
VD4500 XX
R4503 XX
R4504 XX
+5V
D4501 UMZ5.6KTR
Z2k R85009
GND_1
GND_3

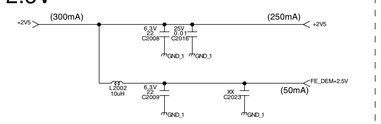

HDMI
RX0-
RX0+
RX1-
RX1+
RX2-
RX2+
RXC-
RXC+
DDC_SCL
DDC_SDA
+3V3
RREF_PNX8535
B10 RX0P_A
B9 RX0N_A
A9 RX1P_A
A8 RX1N_A
B8 RX2P_A
B7 RX2N_A
A11 RXCP_A
A10 RXCN_A
C10 DDC_SCL_A
C11 DDC_SDA_A
R5527 2k2 1/16W
C8 RREF
B11 HOT_PLUG_A
1/16W 10k R5525
CL5516
IC4000
PNX8543EH/1/M2/A/280E

5V

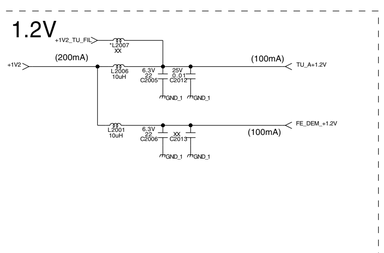
3.3V



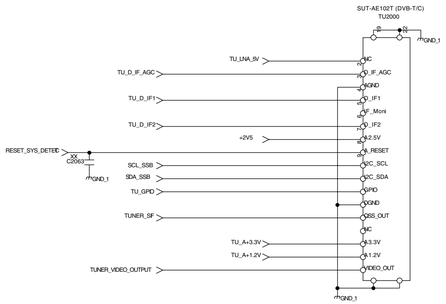
2.5V



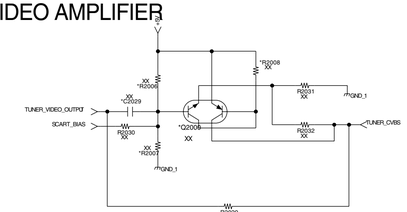
1.2V



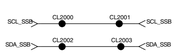
TUNER



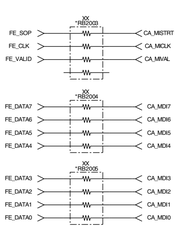
VIDEO AMPLIFIER



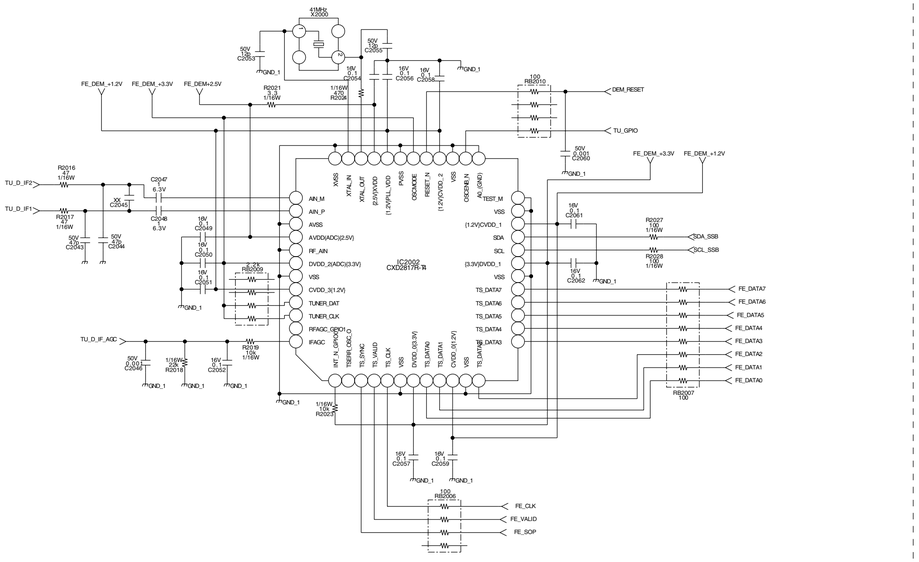
I2C JIGLANDS



TS TO PCMCIA

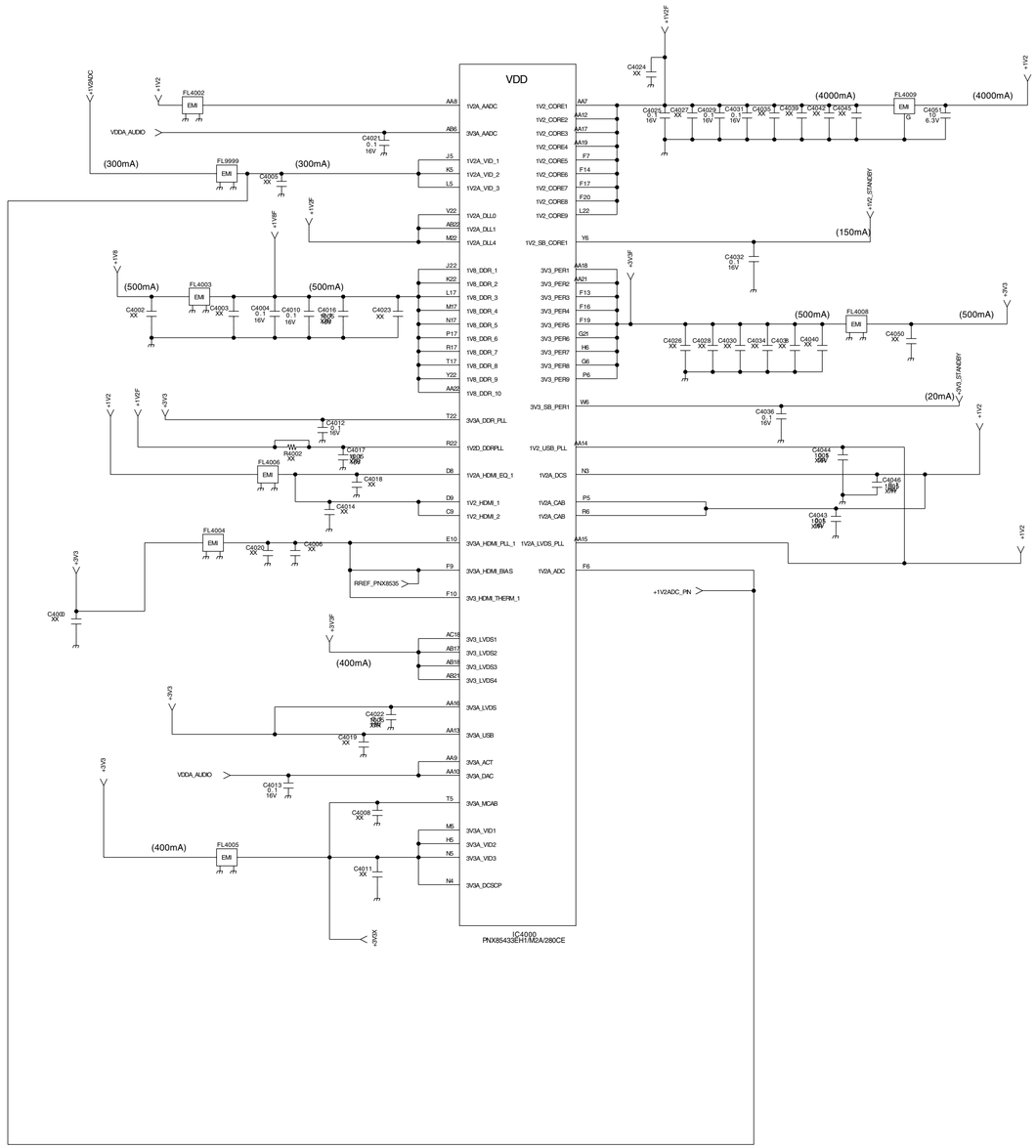


TITAN (DVB-T/C Demodulator)



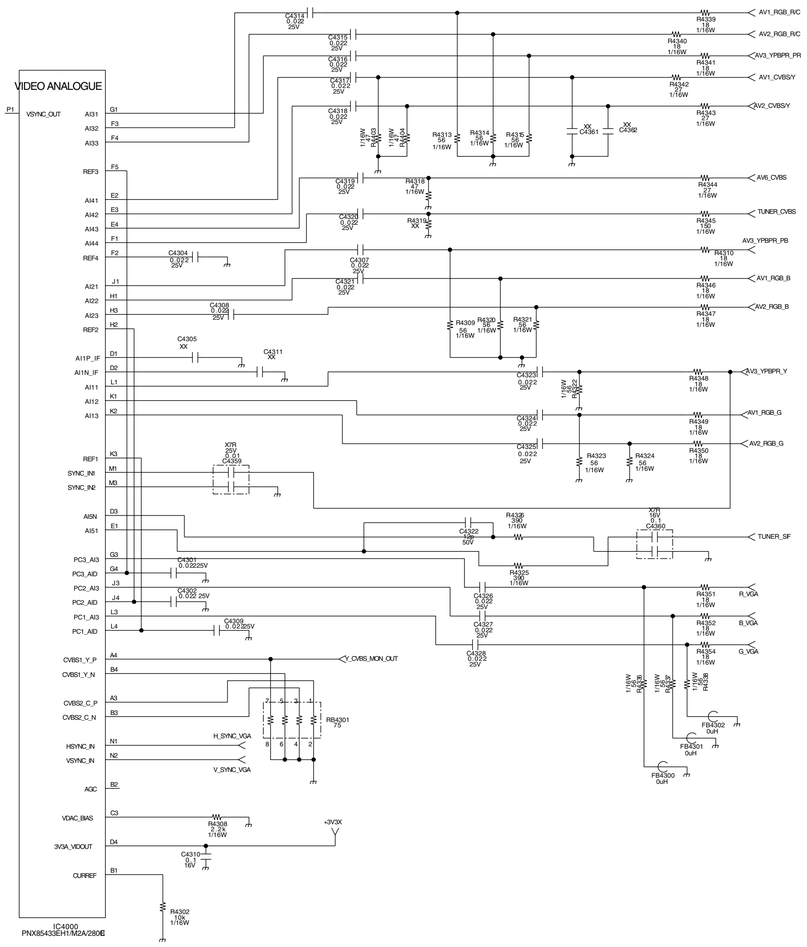
BEN 4/12

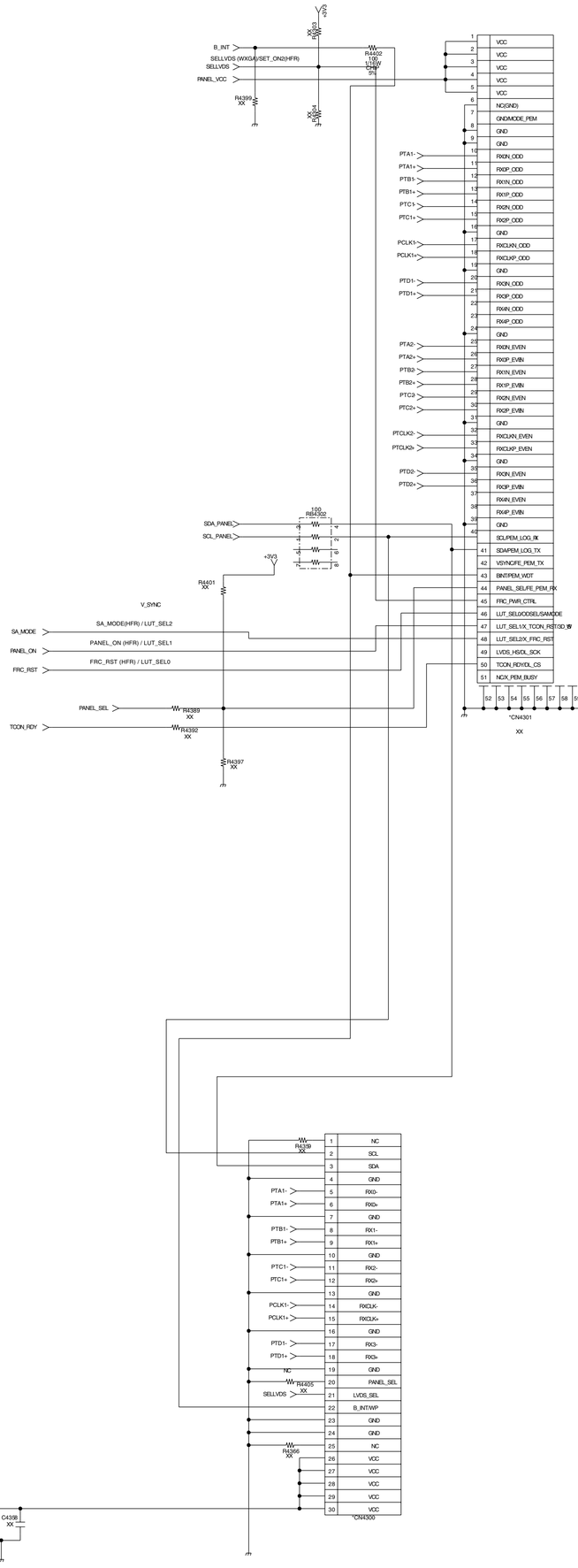
COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

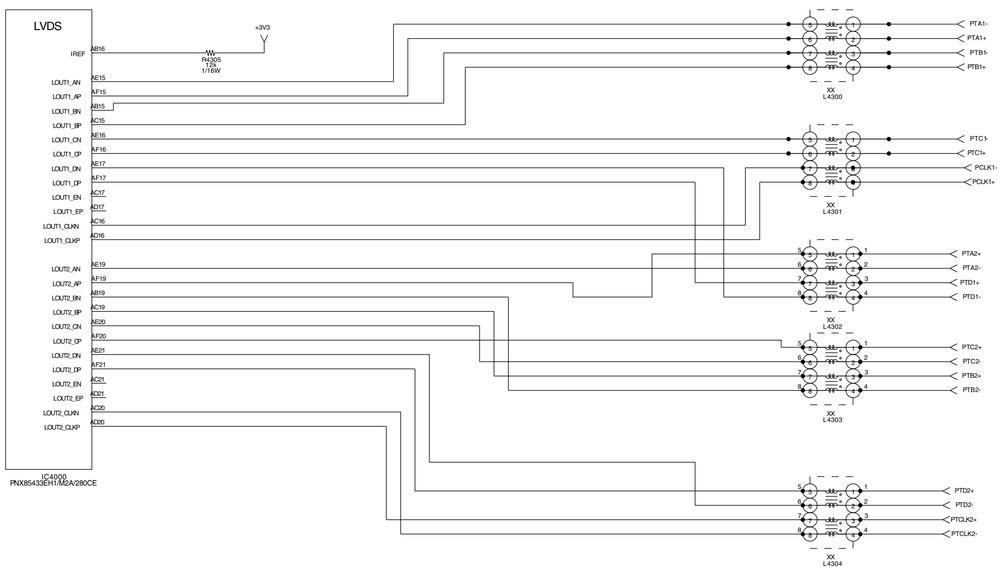


BEN 5/12

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED







BEN 6/12

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

BEN 7/12

VIDEO STREAMS

IC4000
PNX8543/EH1/M2A/280CE

74LVC245APW-118 IC7301

74LVC541APW IC7302

PCMCIA CONNECTOR

CN7300

5V SWITCH

MIC2005-0.5YM6TR IC7303

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

+1V8F
1/16W 560 R4712
XX C4706
6.3V 10u C4742
1/16W 560 R4713
DDR2_VREF

+1V8F
XX C4711
+1V8
(400mA)
FL4700 EMI
XX C4713
1608 X5R 0R 10V C4715 C4716 C4717 C4718 C4719 C4720 C4721 C4722 C4723 C4724 C4725 C4726
(400mA)
+1V8F

+1V8
(400mA)
FL4701 EMI
XX C4728
1608 X5R 0R 10V C4729 C4731 C4732 C4733 C4734 C4735 C4736 C4737 C4738 C4739 C4740 C4741
(400mA)
+1V8F

+1V8F
DDR2_VREF
1/16W 560 R4703
1/16W 1.8k R4704
25V C4700
25V C4702

DDR
T24 VREF
R23 IREF
T26 CLK_P
T25 CLK_N
M23 ODT
M23 CKE
M24 WEB
N24 CSB
RASB
N24 CASB
U26 BA0
V25 BA1
R24 BA2
R26 A0
W25 A1
R25 A2
V23 A3
P26 A4
V24 A5
N25 A6
U24 A7
N26 A8
P23 A9
V26 A10
M25 A11
P24 A12
AB26 DQ0
AD25 DQ1
AB25 DQ2
AE26 DQ3
AE25 DQ4
W26 DQ5
AD26 DQ6
Y26 DQ7
AA24 DQ8
AD23 DQ9
AC24 DQ10
AE24 DQ11
AE23 DQ12
Y23 DQ13
AD24 DQ14
Y24 DQ15
H26 DQ16
K26 DQ17
J25 DQ18
L26 DQ19
M26 DQ20
F25 DQ21
K25 DQ22
F26 DQ23
H23 DQ24
K24 DQ25
H24 DQ26
L23 DQ27
L24 DQ28
F23 DQ29
J24 DQ30
F24 DQ31
AA26 DQS0_P
AA25 DQS0_N
AB24 DQS1_P
AB23 DQS1_N
G25 DQS2_P
G26 DQS2_N
G25 DQS3_P
G25 DQS3_N
AC26 DQM0
AC25 DQM1
J26 DQM2
J23 DQM3
IC4000
PNX85433EH1/M2A/280CE

DDR2_DQS0_P CL4700 DDR2_DQS0_P
DDR2_DQS0_N CL4701 DDR2_DQS0_N
DDR2_DQS1_P CL4702 DDR2_DQS1_P
DDR2_DQS1_N CL4703 DDR2_DQS1_N
DDR2_DQS2_P CL4704 DDR2_DQS2_P
DDR2_DQS2_N CL4705 DDR2_DQS2_N
DDR2_DQS3_P CL4706 DDR2_DQS3_P
DDR2_DQS3_N CL4707 DDR2_DQS3_N
DDR2_DQM0
DDR2_DQM1
DDR2_DQM2
DDR2_DQM3
DDR2_CLK_P
DDR2_CLK_N
DDR2_BA1
DDR2_A10
DDR2_A1
DDR2_A3
DDR2_WE
DDR2_CKE
DDR2_A5
DDR2_A7
DDR2_BA2
DDR2_BA0
DDR2_A0
DDR2_A2
DDR2_A12
DDR2_A9
DDR2_A4
DDR2_A6
DDR2_A8
DDR2_A11
DDR2_CAS
DDR2_CS
DDR2_RAS
DDR2_ODT
R4701 100 1/16W
RB4722 33
RB4721 33
RB4718 33
RB4717 33
1/16W 1k R4700

DDR2_A0 DDR2_A1 DDR2_A2 DDR2_A3 DDR2_A4 DDR2_A5 DDR2_A6 DDR2_A7 DDR2_A8 DDR2_A9 DDR2_A10 DDR2_A11 DDR2_A12
DDR2_BA0 DDR2_BA1 DDR2_BA2
DDR2_DQM0 DDR2_DQM1
DDR2_DQS0_P DDR2_DQS0_N DDR2_DQS1_P DDR2_DQS1_N
ADD WITH POSSIBILITY TO COMBINE 4 IN ONE ARRAY
DDR2_CLK_P DDR2_CLK_N DDR2_CKE
DDR2_CS DDR2_RAS DDR2_CAS DDR2_WE
DDR2_ODT
C4714 0.1 25V
DDR2_VREF
+1V8F
(400mA)

M8 A0
M3 A1
M7 A2
N2 A3
N8 A4
N3 A5
N7 A6
P2 A7
P8 A8
P3 A9
M2 A10
P7 A11
R2 A12
L2 BA0
L3 BA1
L1 BA2
B3 UDM
F3 LDM
B7 UDQS
A8 UDQS#
F7 LDQS
E8 LDQS#
J8 CK
K8 CK#
K2 CKE
L8 CS#
K7 RAS#
L7 CAS#
K3 WE#
K9 ODT
G8 DQ0
G2 DQ1
H7 DQ2
H3 DQ3
H1 DQ4
H9 DQ5
F1 DQ6
F9 DQ7
C8 DQ8
C2 DQ9
D7 DQ10
D3 DQ11
D1 DQ12
D9 DQ13
B1 DQ14
B9 DQ15
A2 NC
E2 NC
R3 NC
R7 NC
R8 NC
J2 VREF
J1 VDDL
J7 VSSDL
A3 VSS
E3 VSS
J3 VSS
N1 VSS
P9 VSS
A7 VSSQ
B2 VSSQ
B8 VSSQ
D2 VSSQ
D8 VSSQ
E7 VSSQ
F2 VSSQ
F8 VSSQ
H2 VSSQ
H8 VSSQ
A1 VDD
E1 VDD
J9 VDD
M9 VDD
R1 VDD
A9 VDDQ
C1 VDDQ
C3 VDDQ
C7 VDDQ
C9 VDDQ
E9 VDDQ
G1 VDDQ
G3 VDDQ
G7 VDDQ
G9 VDDQ
IC4702
K4T51163QG-HCE7T

DDR2_A0 DDR2_A1 DDR2_A2 DDR2_A3 DDR2_A4 DDR2_A5 DDR2_A6 DDR2_A7 DDR2_A8 DDR2_A9 DDR2_A10 DDR2_A11 DDR2_A12
DDR2_BA0 DDR2_BA1 DDR2_BA2
DDR2_DQM0 DDR2_DQM1
DDR2_DQS3_P DDR2_DQS3_N DDR2_DQS2_P DDR2_DQS2_N
ADD WITH POSSIBILITY TO COMBINE 4 IN ONE ARRAY
DDR2_CLK_P DDR2_CLK_N DDR2_CKE
DDR2_CS DDR2_RAS DDR2_CAS DDR2_WE
DDR2_ODT
C4715 0.1 25V
DDR2_VREF
+1V8F
JL4704
(400mA)

M8 A0
M3 A1
M7 A2
N2 A3
N8 A4
N3 A5
N7 A6
P2 A7
P8 A8
P3 A9
M2 A10
P7 A11
R2 A12
L2 BA0
L3 BA1
L1 BA2
B3 UDM
F3 LDM
B7 UDQS
A8 UDQS#
F7 LDQS
E8 LDQS#
J8 CK
K8 CK#
K2 CKE
L8 CS#
K7 RAS#
L7 CAS#
K3 WE#
K9 ODT
G8 DQ0
G2 DQ1
H7 DQ2
H3 DQ3
H1 DQ4
H9 DQ5
F1 DQ6
F9 DQ7
C8 DQ8
C2 DQ9
D7 DQ10
D3 DQ11
D1 DQ12
D9 DQ13
B1 DQ14
B9 DQ15
A2 NC
E2 NC
R3 NC
R7 NC
R8 NC
J2 VREF
J1 VDDL
J7 VSSDL
A3 VSS
E3 VSS
J3 VSS
N1 VSS
P9 VSS
A7 VSSQ
B2 VSSQ
B8 VSSQ
D2 VSSQ
D8 VSSQ
E7 VSSQ
F2 VSSQ
F8 VSSQ
H2 VSSQ
H8 VSSQ
A1 VDD
E1 VDD
J9 VDD
M9 VDD
R1 VDD
A9 VDDQ
C1 VDDQ
C3 VDDQ
C7 VDDQ
C9 VDDQ
E9 VDDQ
G1 VDDQ
G3 VDDQ
G7 VDDQ
G9 VDDQ
IC4703
K4T51163QG-HCE7T

PCI_AD0-31
PCI_CBE1-2

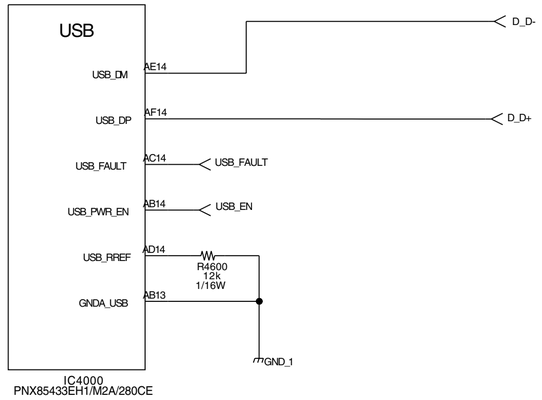
+3V3
(100mA)
TC58NVG0S3ETA00 IC4704
25V C4704
25V C4705
XIO_SEL_NAND
XIO_ACK
R4711 XX
R4709 2.2k 1/16W
R4710 10k 1/16W
PCI_CBE2
PCI_AD31
PCI_AD30
PCI_AD29
PCI_AD28
PCI_AD27
PCI_AD26
PCI_AD25
PCI_AD24
PCI_AD0
PCI_AD1
PCI_CBE1

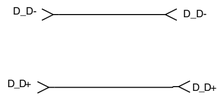
+3V3
1/16W 10k R4708
RESET_NVM_WP_NANDFLASH
XX C4701
Q4700 DRC5144E0L
XX C4703

PCI_AD8
PCI_AD9
PCI_AD14
PCI_AD16
PCI_AD17
PCI_AD22
PCI_AD0
PCI_AD1
PCI_AD2
PCI_AD3
PCI_AD4
PCI_AD5
PCI_AD6
PCI_AD7
PCI_AD10
PCI_AD11
PCI_AD12
PCI_AD13
PCI_AD24
PCI_AD25
PCI_AD26
PCI_AD27
PCI_AD28
PCI_AD29
PCI_AD30
PCI_AD31
PCI_AD18
PCI_AD19
PCI_AD23
RB4723 33
RB4719 33
CL4708
CL4709

PCIXIO
XIO_ACK E11
XIO_SEL0 D11
B18 PCI_AD0
C18 PCI_AD1
D18 PCI_AD2
E18 PCI_AD3
A17 PCI_AD4
B17 PCI_AD5
C17 PCI_AD6
D17 PCI_AD7
E17 PCI_AD8
A16 PCI_AD9
B16 PCI_AD10
C16 PCI_AD11
D16 PCI_AD12
E16 PCI_AD13
A15 PCI_AD14
A14 PCI_AD16
E15 PCI_AD17
D15 PCI_AD18
C15 PCI_AD19
B15 PCI_AD20
A13 PCI_AD21
E14 PCI_AD22
D14 PCI_AD23
C14 PCI_AD24
B14 PCI_AD25
A12 PCI_AD26
E13 PCI_AD27
D13 PCI_AD28
C13 PCI_AD29
B13 PCI_AD30
E12 PCI_AD31
CBE1 D12
CBE2 C12
PCI_CBE1
PCI_CBE2
IC4000
PNX85433EH1/M2A/280CE

BEN 8/12





BEN 9/12

USB CONNECTOR

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

BEN 10/12

MIPS CONTROL

IC4000
PNX8543GEH1/M2A/280CE

STANDBY CONTROL

IC4000
PNX8543EH1/M2A/280CE

TEMPERATURE SENSOR

*IC4109

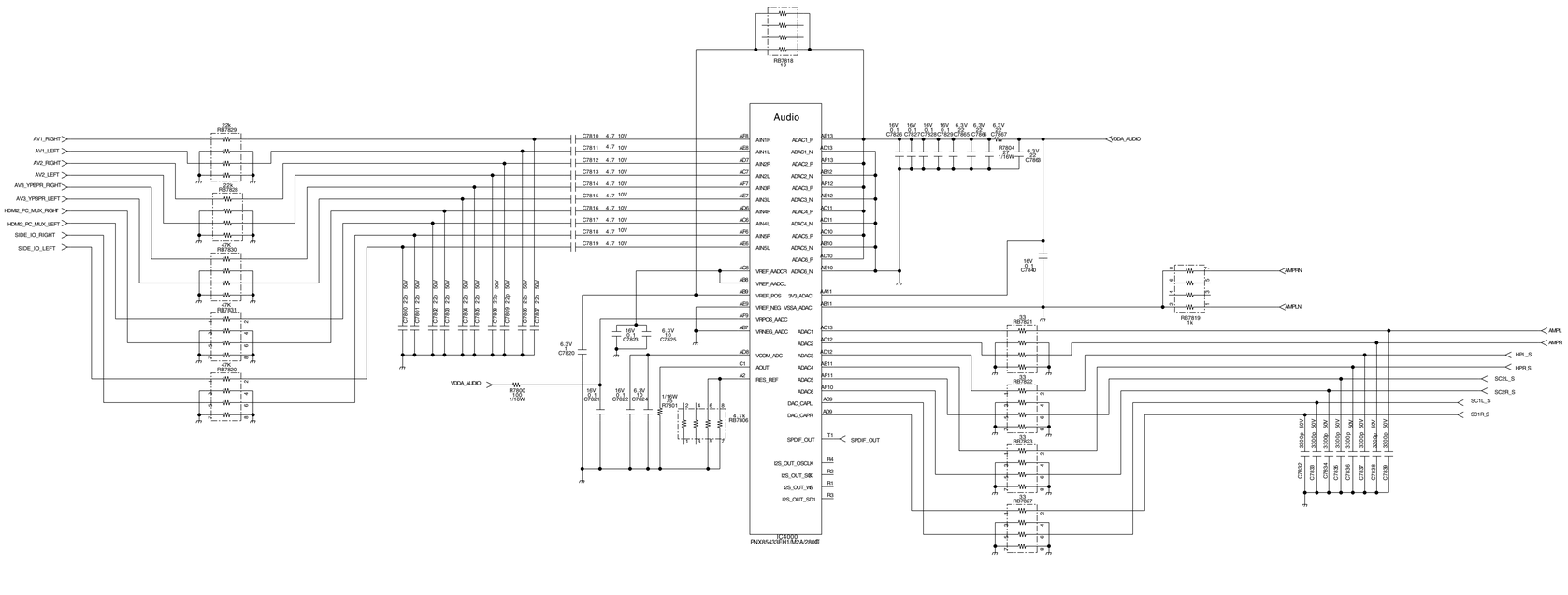
BOARD VERSION RESISTORS - MOUNT ON B SID

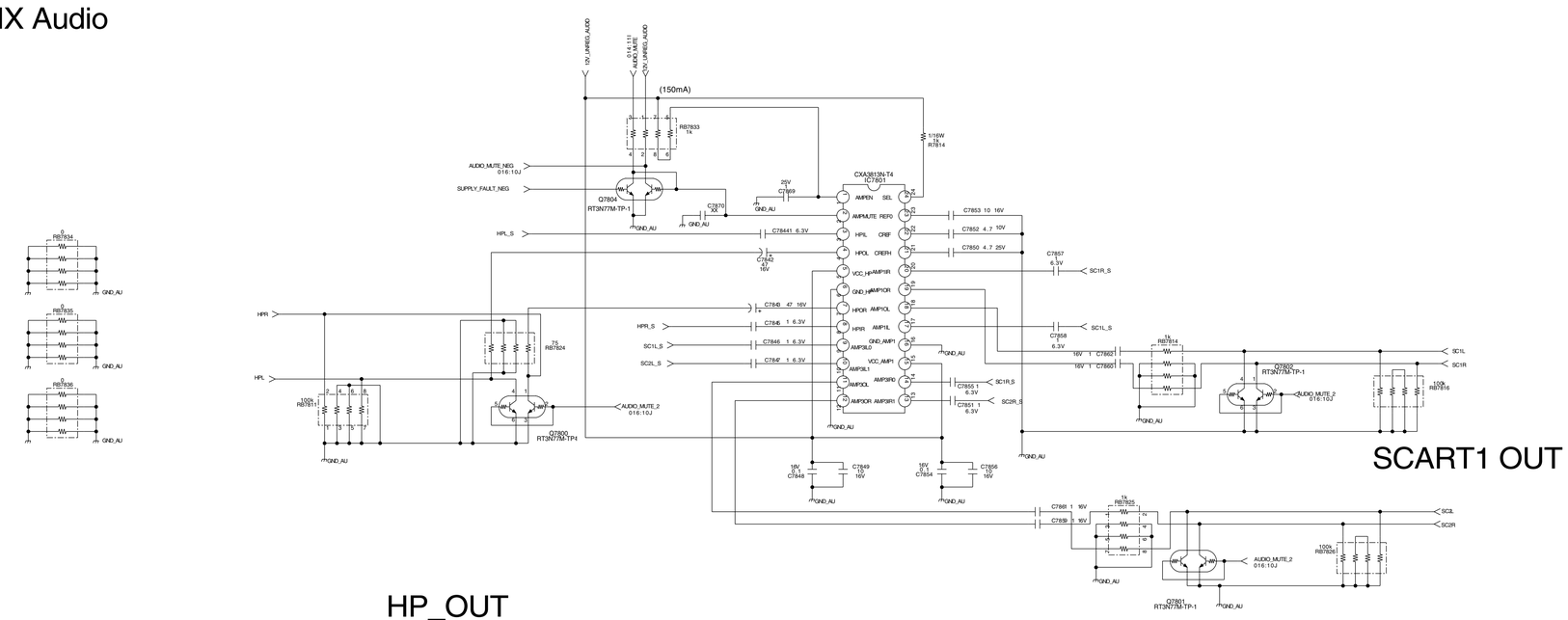
BOARD VERSION RESISTORS - MOUNT ON A SIDE

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

PNX Audio

BEN 11/12

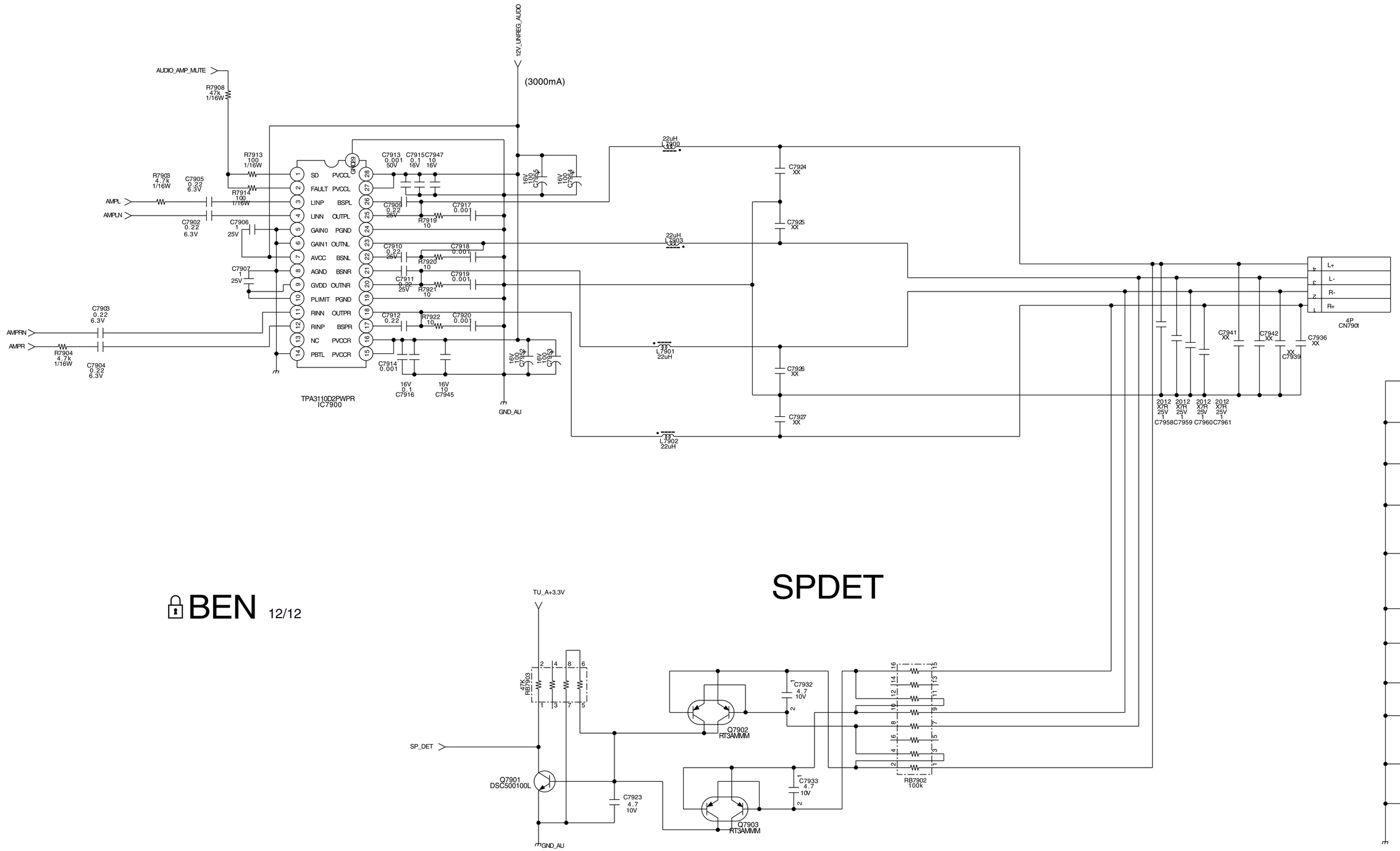




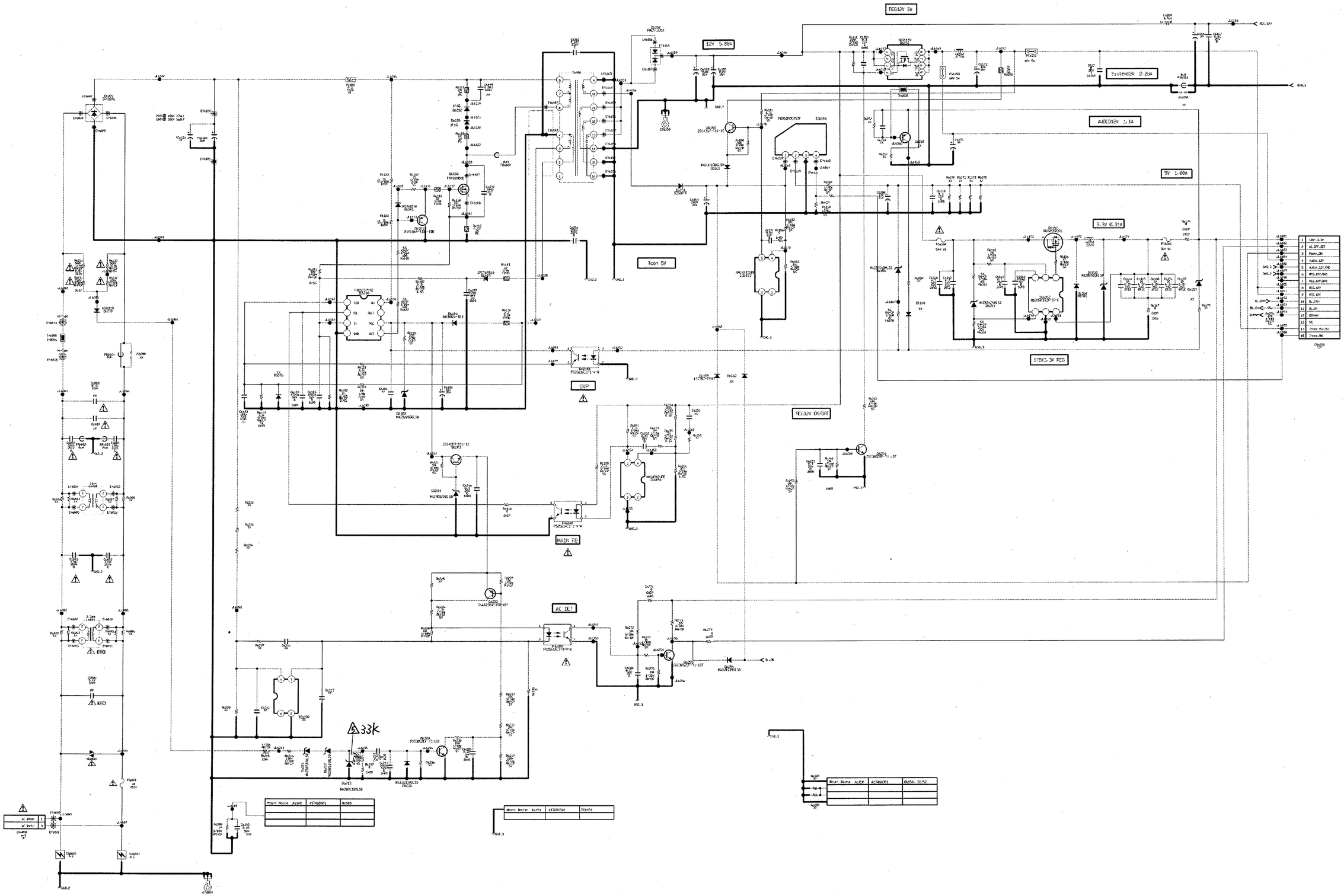
COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

BEN 12/12

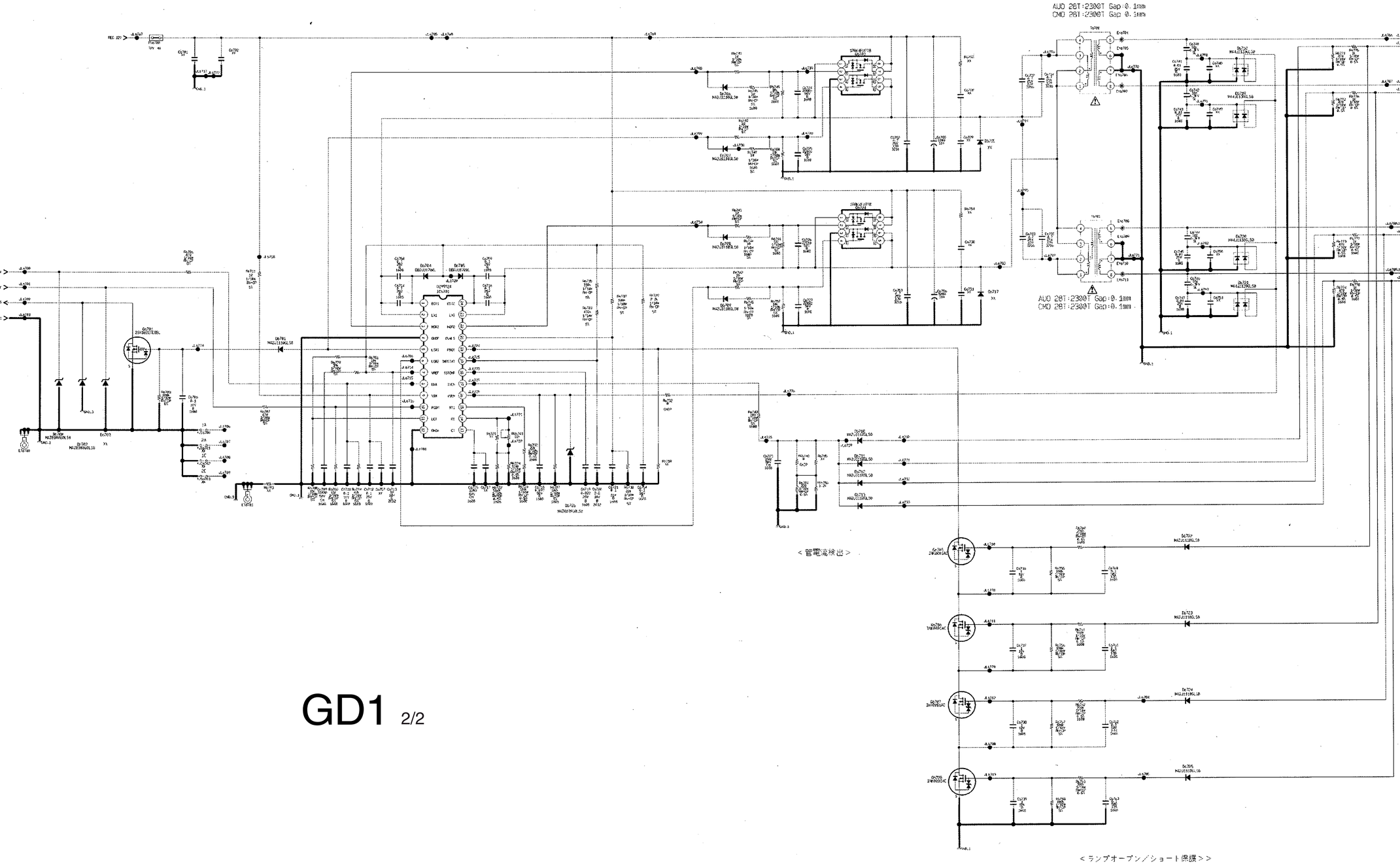
SPDET



GD1 1/2 POWER SUPPLY

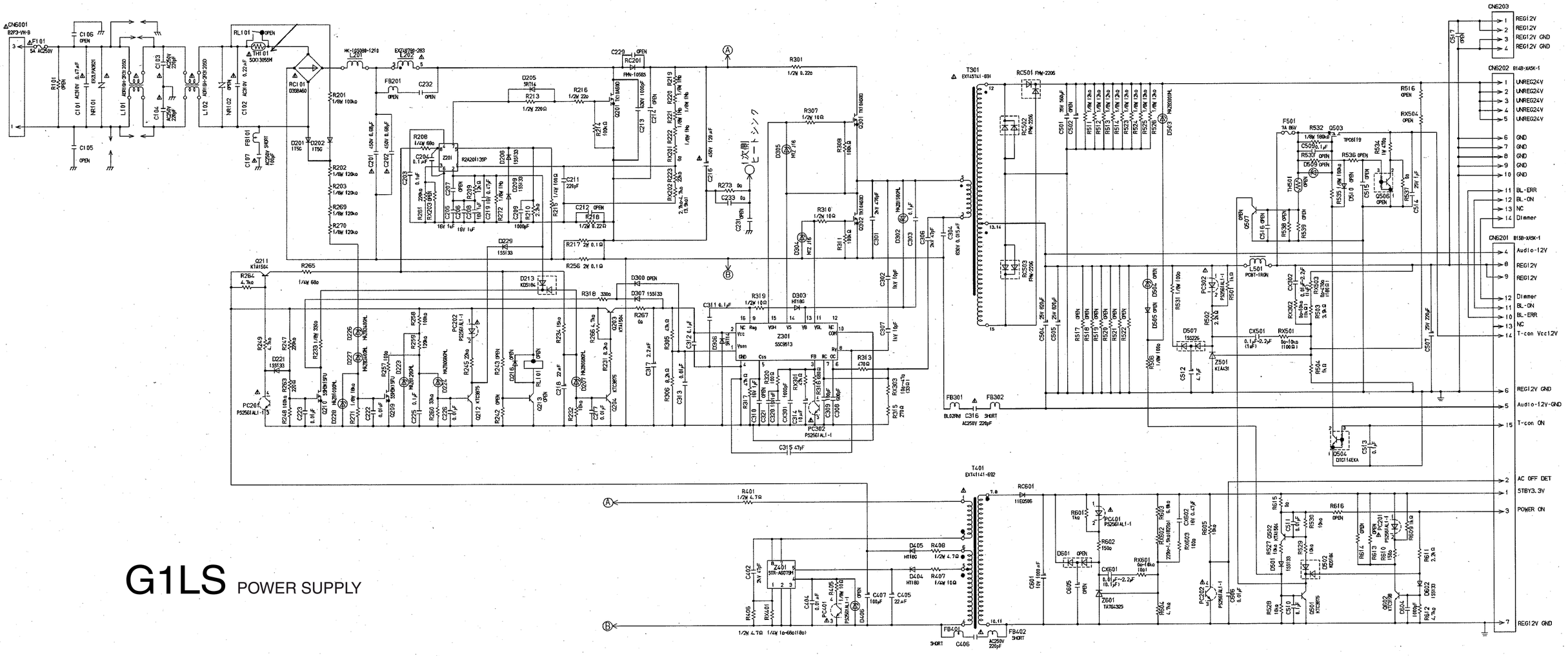


GD1-AZ1N (22 inches only)



GD1 2/2

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED


CN6001
F101
5A AC250V
RL101
TH101
T301
T401
RC501
RC601
CN6203
REG12V
REG12V
REG12V GND
REG12V GND
CN6202
UNREG24V
UNREG24V
UNREG24V
UNREG24V
UNREG24V
GND
GND
GND
GND
GND
BL-ERR
BL-ON
NC
Dimmer
CN6201
Audio-12V
REG12V
REG12V
Dimmer
BL-ON
BL-ERR
NC
T-con Vcc12V
REG12V GND
Audio-12V-GND
T-con ON
AC OFF DET
STBY3.3V
POWER ON
REG12V GND
Z301
SSC9513
Z401
STR-A6079H
Z501
KIA431
Z601
TA76U325
PC201
PC202
PC261
PC302
PC401
PC501
PC601
PC602
PC701
PC702
PC801
PC802
PC901
PC902
PC903
PC904
PC905
PC906
PC907
PC908
PC909
PC910
PC911
PC912
PC913
PC914
PC915
PC916
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PC918
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PC920
PC921
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PC924
PC925
PC926
PC927
PC928
PC929
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PC931
PC932
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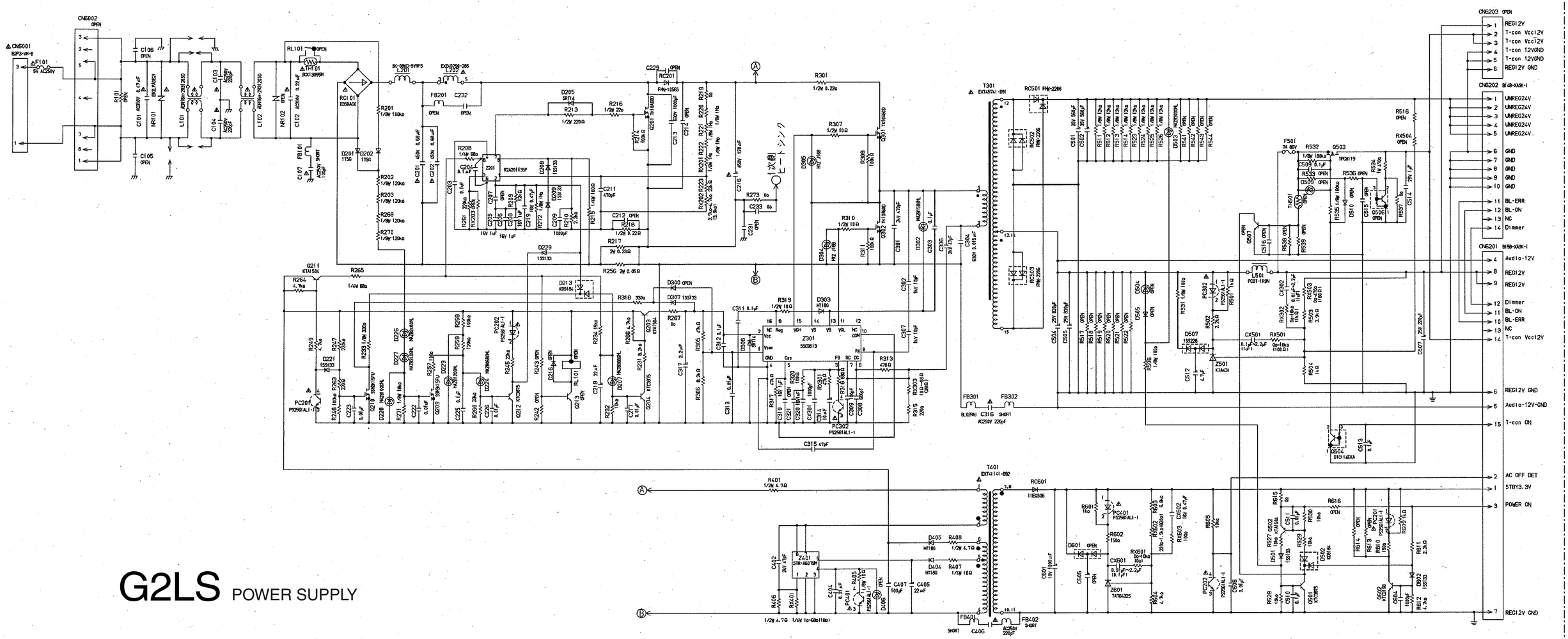
PC934
PC935
PC936
PC937
PC938
PC939
PC940

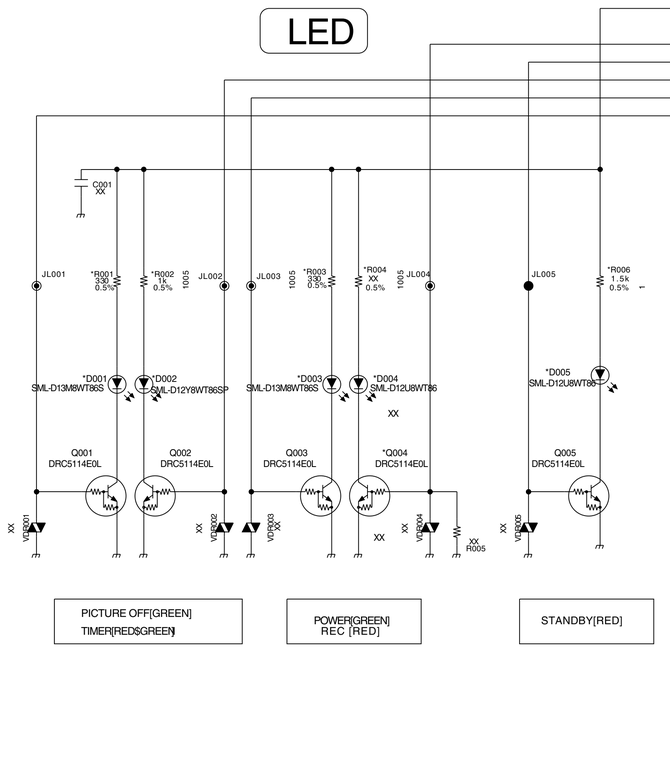


G2LS POWER SUPPLY

COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

HLR-AZ1N

LED



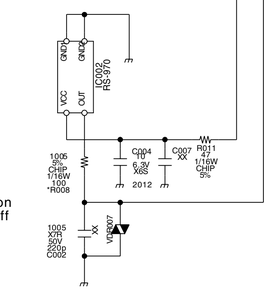
PICTURE OFF[GREEN]
TIMER[RED&GREEN]

POWER[GREEN]
REC [RED]

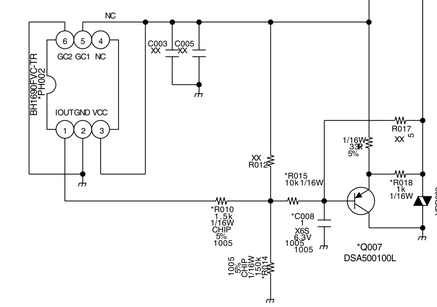
STANDBY[RED]

High: LED on
Low: LED off

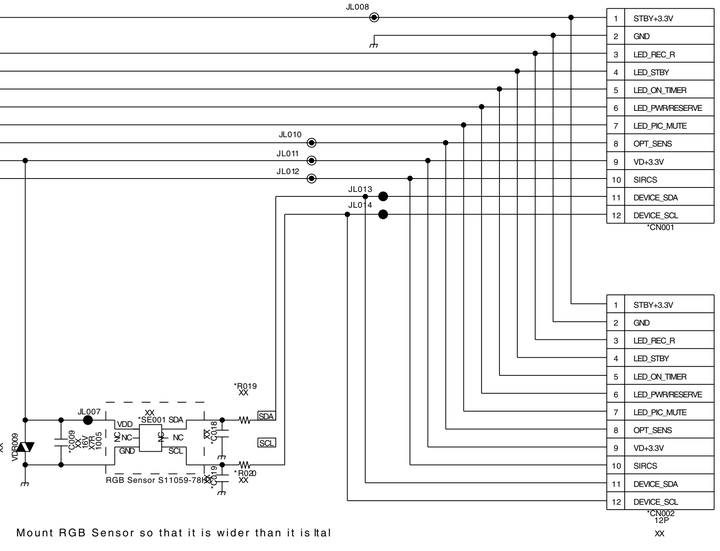
Sircs



Optical Sensor



RGB Sensor



Mount RGB Sensor so that it is wider than it is tal

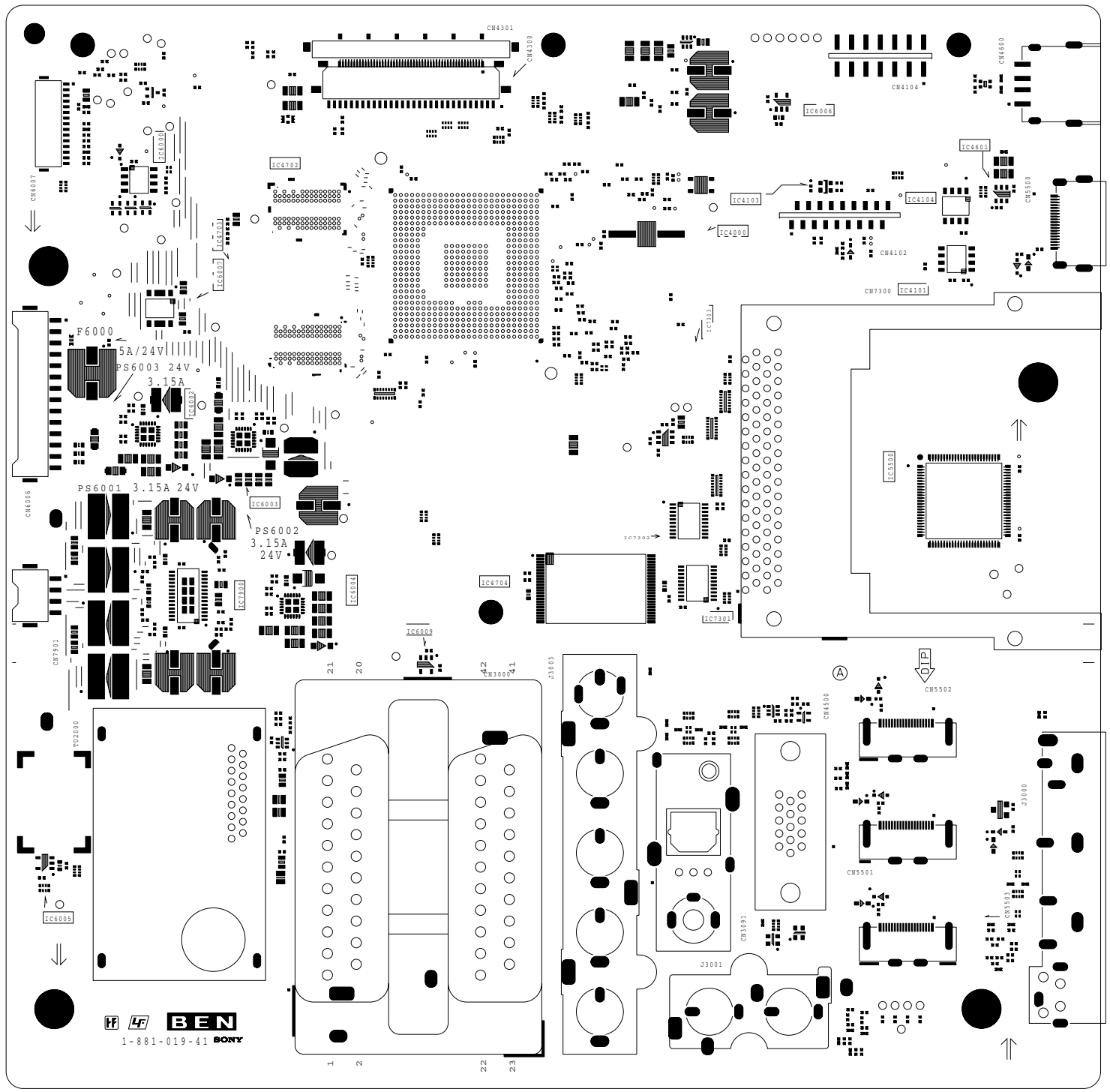
*R049 XX
*R050 XX
*R051 XX
*R052 47
*R053 XX
*R054 XX
R055 XX
R056 XX
R057 XX

HLR LED/IR/LIGHT SENSOR

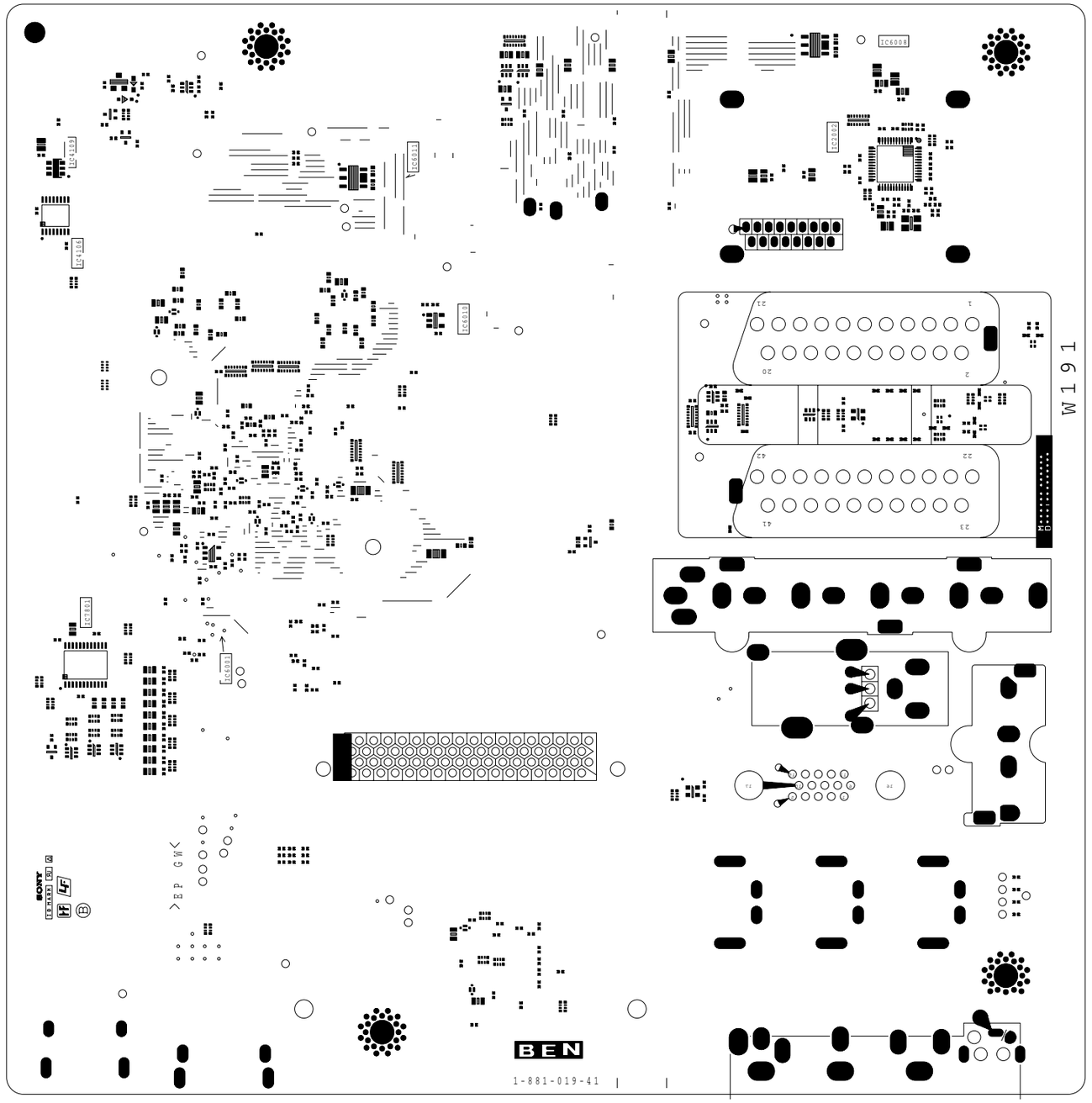
COMPONENTS MARKED AS XX REFER TO PARTS LIST, WILL ONLY BE LISTED IF FITTED

~ HLR Board Schematic Diagram [LED/IR/Light Sensor] ~

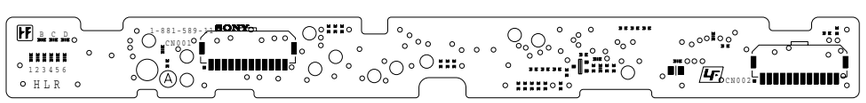
~ BEN Printed Wiring Board Side A ~



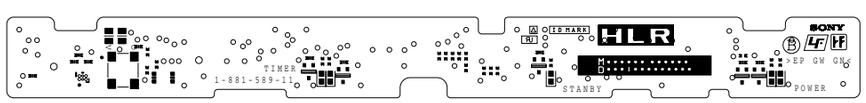
~ BEN Printed Wiring Board Side B ~



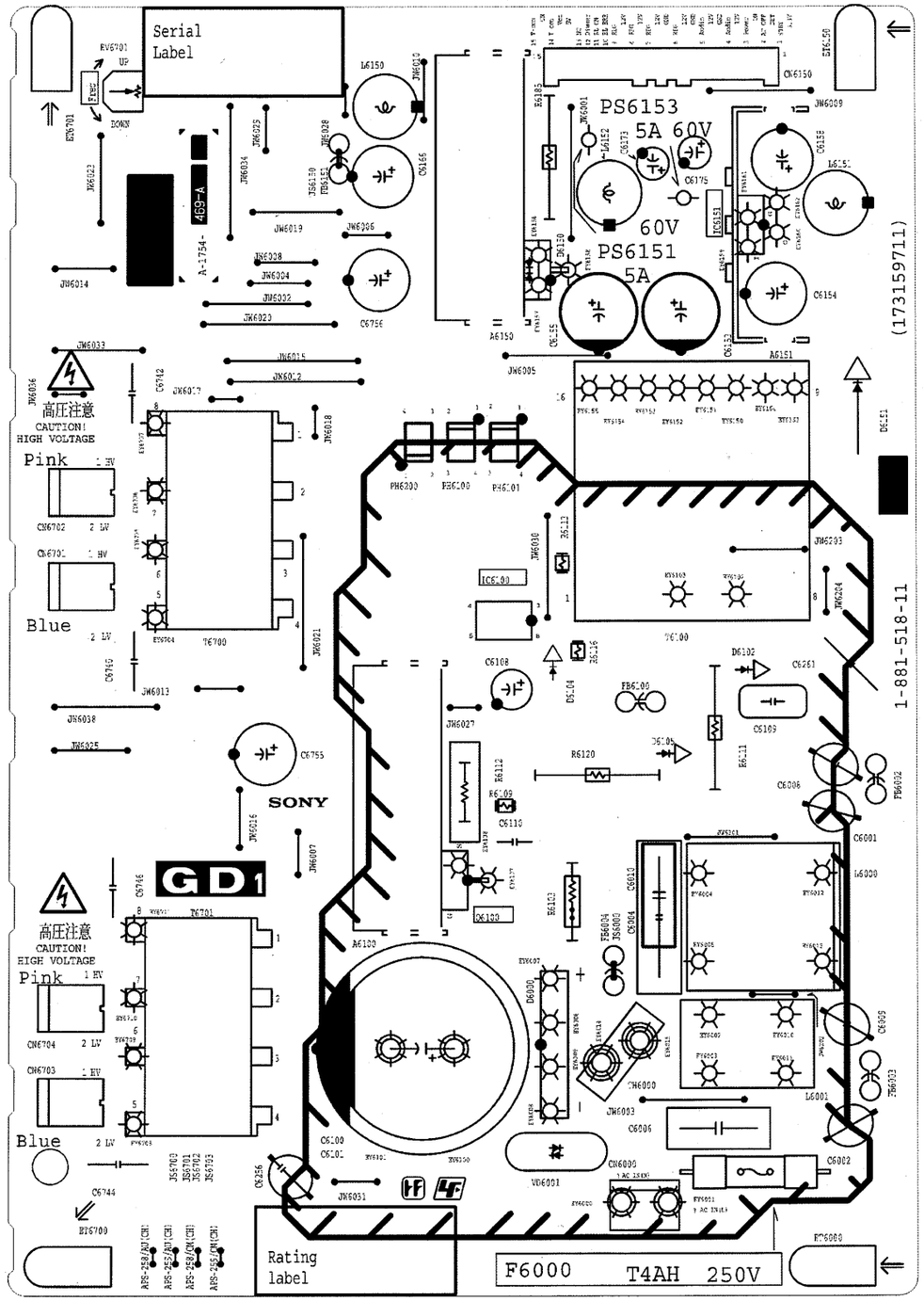
~ HLR Printed Wiring Board Side A ~

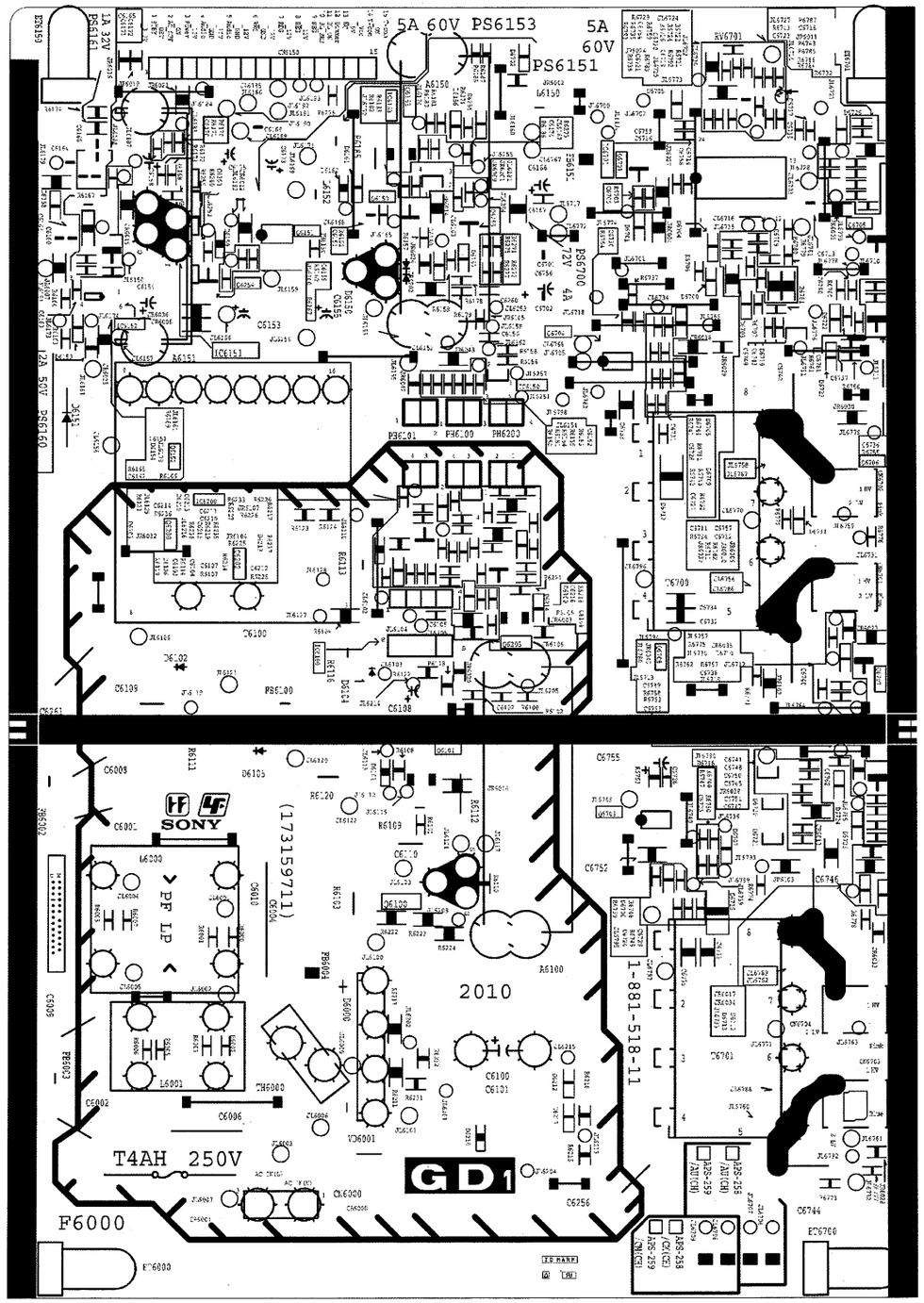


~ HLR Printed Wiring Board Side B ~

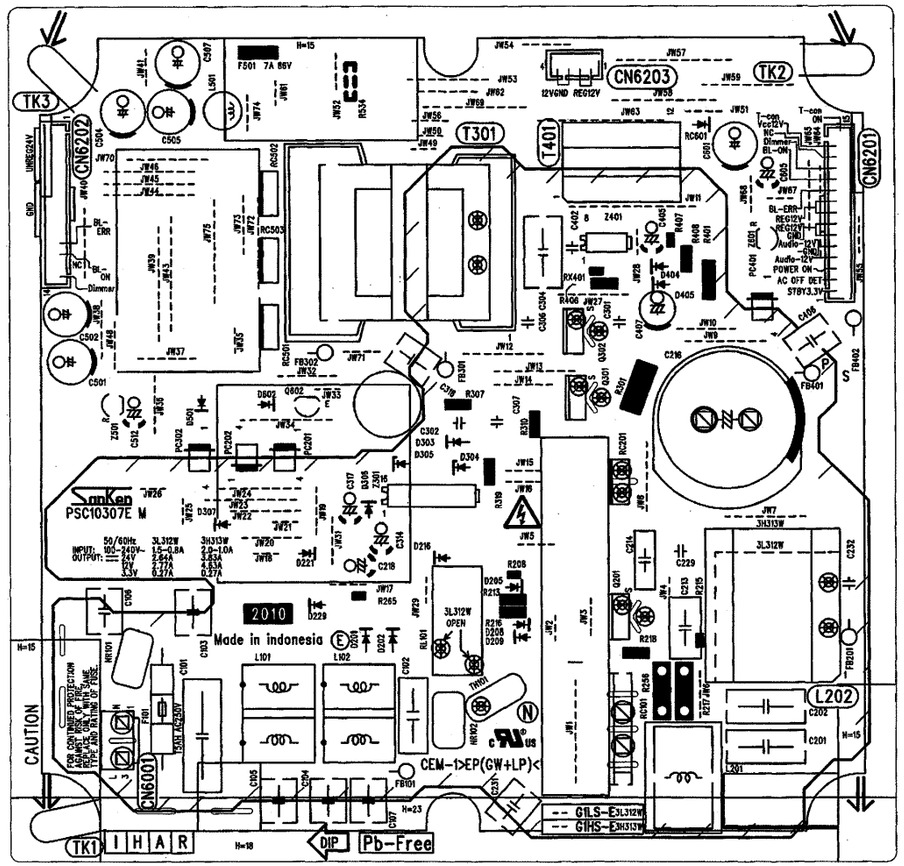


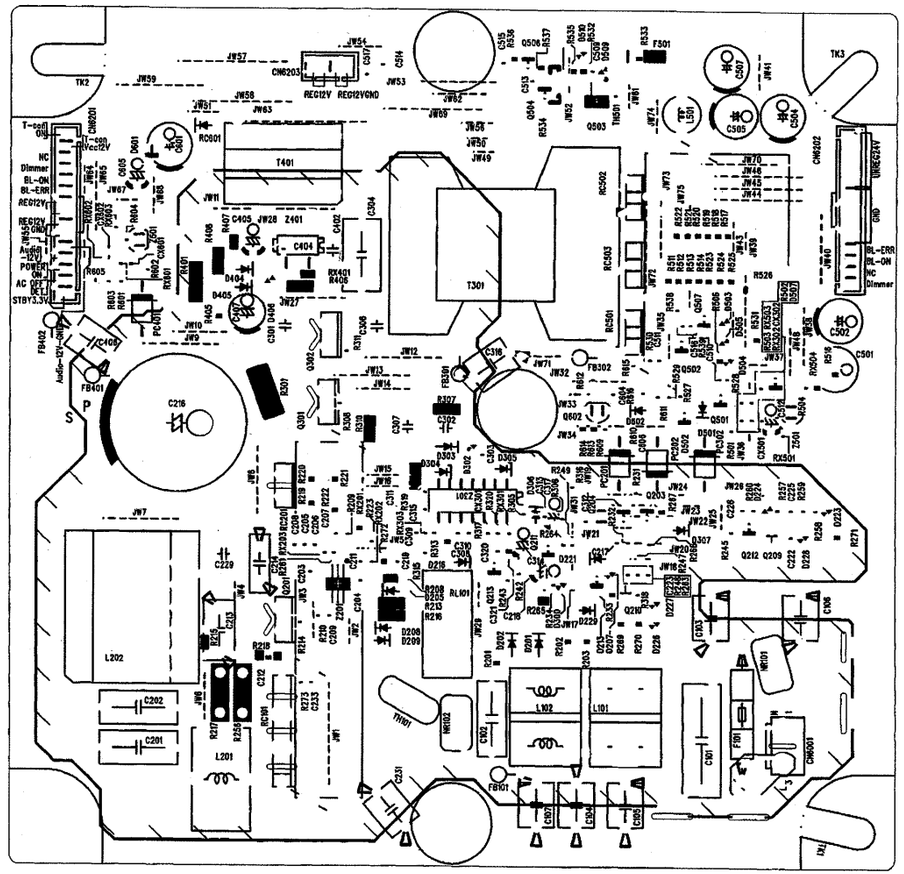
~ GD1 Printed Wiring Board (22 inches only) ~



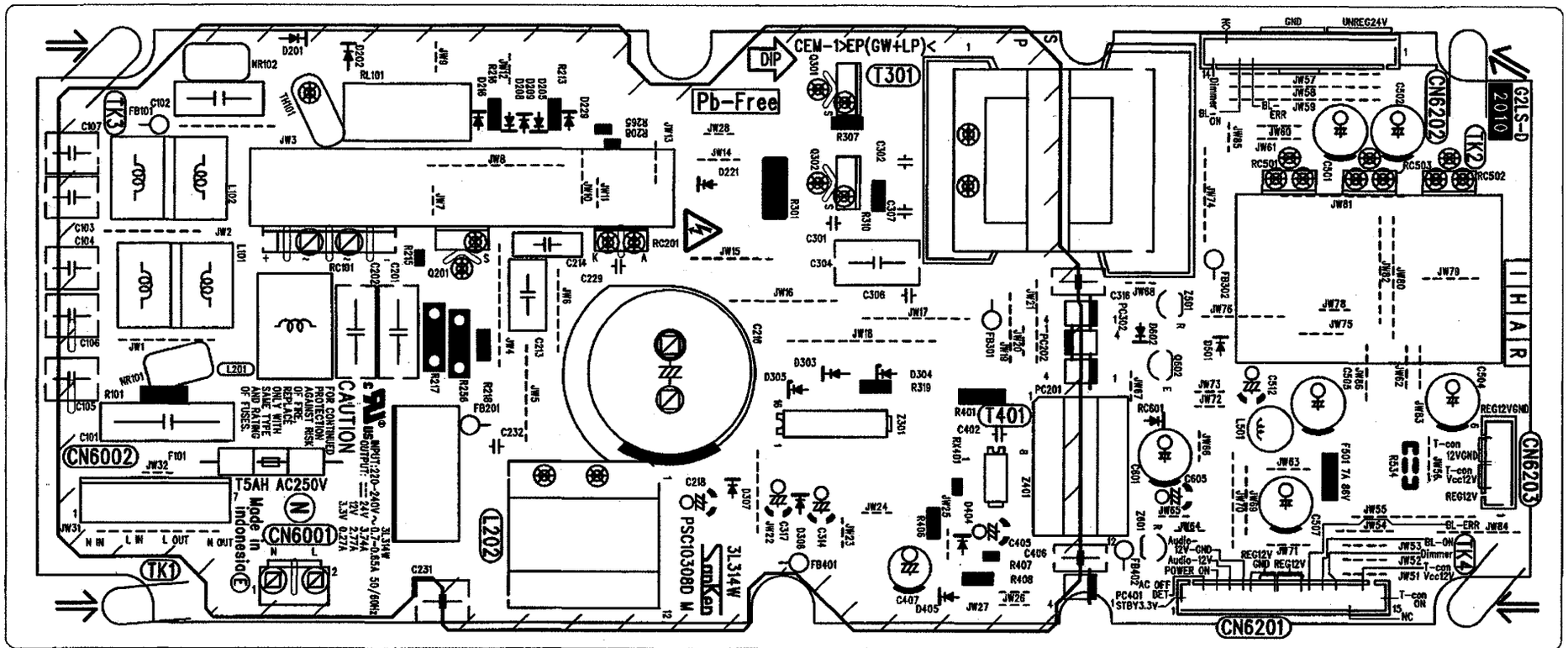


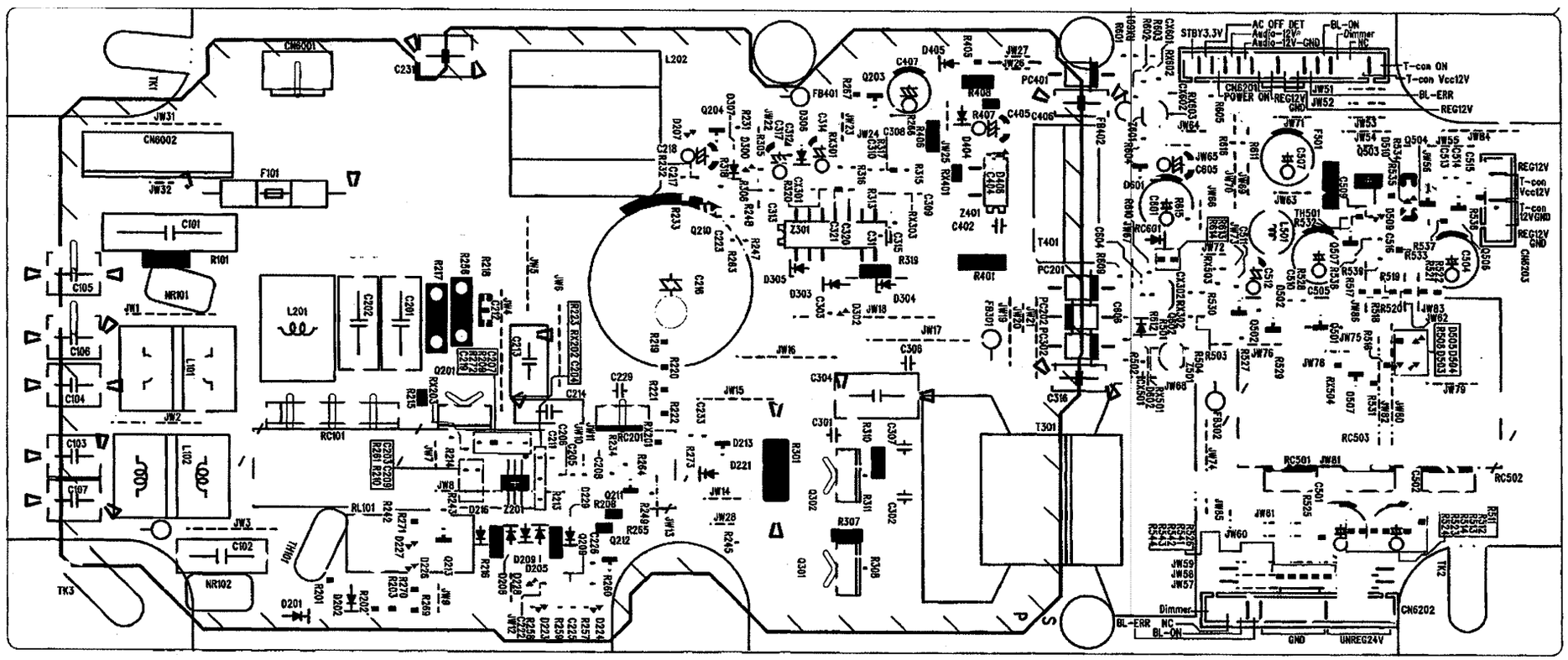
~ G1LS Printed Wiring Board (26 inches only) ~





~ G2LS Printed Wiring Board (32 inches only)~





SECTION 2
PARTS LIST

PARTS LISTING TABLE OF CONTENTS

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BEN BOARD Parts List :	.....	28
G2LS BOARD Parts List :	**(32 inches only)**.....	43
G1LS BOARD Parts List :	**(26 inches only)**.....	43
GD1 BOARD Parts List :	**(22 inches only)**.....	43

Note: To ensure safety and reliability it is Sony policy that power supply boards should not be repaired in the field. As a result these boards are regarded as non service items for exchange only and are not indicated in the parts list of this service manual.

Note : Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : The components identified by mark 🔒 contain confidential information. Strictly follow the instructions when ever the components are repaired and/or replaced.

REF.NO.	PART.NO	DESCRIPTION
A-1763-559-A HLR Board		
C002	1-112-068-11	CERAMIC CHIP 220PF 10% 50V
C004	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C008	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C010	1-218-937-11	METAL CHIP 47 5% 1/16W
C012	1-218-937-11	METAL CHIP 47 5% 1/16W
CN001	1-821-139-11	HEADER ASSEMBLY FOR PWB 12P
D001	6-502-294-01	DI SML-D13M8WT86S
D002	6-502-196-01	DI SML-D12Y8WT86SP
D003	6-502-294-01	DI SML-D13M8WT86S
D005	6-502-598-01	DI SML-D12U8WT86
IC002	6-600-784-01	IC RS-970
PH002	6-600-680-01	PHOTO DIODE BH1690FVC-TR
Q001	6-552-430-01	TR DRC5114E0L
Q002	6-552-430-01	TR DRC5114E0L
Q003	6-552-430-01	TR DRC5114E0L
Q005	6-552-430-01	TR DRC5114E0L
Q007	6-552-407-01	TR DSA500100L
R001	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R002	1-208-887-11	METAL CHIP 1K 0.5% 1/16W
R003	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R006	1-208-891-11	METAL CHIP 1.5K 0.5% 1/16W
R008	1-218-949-11	METAL CHIP 470 5% 1/16W
R010	1-218-955-11	METAL CHIP 1.5K 5% 1/16W
R011	1-218-937-11	METAL CHIP 47 5% 1/16W
R014	1-218-979-11	METAL CHIP 150K 5% 1/16W
R015	1-218-965-11	METAL CHIP 10K 5% 1/16W
R016	1-218-971-11	METAL CHIP 33K 5% 1/16W
R018	1-218-953-11	METAL CHIP 1K 5% 1/16W
🔒 **A-1763-565-A BEN Board**		
C2002	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2003	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2005	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2006	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2008	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2009	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C2012	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C2016	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C2021	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C2043	1-164-866-11	CERAMIC CHIP 47PF 5.00% 50V
C2044	1-164-866-11	CERAMIC CHIP 47PF 5.00% 50V
C2046	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C2047	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C2048	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C2049	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2050	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2051	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V

REF.NO.	PART.NO	DESCRIPTION
C2052	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2053	1-164-852-11	CERAMIC CHIP 12PF 5.00% 50V
C2054	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2055	1-164-852-11	CERAMIC CHIP 12PF 5.00% 50V
C2056	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2057	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2058	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2059	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2060	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C2061	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C2062	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C3001	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C3002	1-100-904-11	CERAMIC CHIP 330PF 10% 50V
C3003	1-100-904-11	CERAMIC CHIP 330PF 10% 50V
C3004	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C3012	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C3018	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C3019	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C3035	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C3036	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C3037	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C3090	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C3095	1-114-365-11	CAP, CERAMIC 1000PF X7R (1410)
C3096	1-114-519-11	CAP, CERAMIC 100PF CH (1410)
C3097	1-114-365-11	CAP, CERAMIC 1000PF X7R (1410)
C3098	1-114-365-11	CAP, CERAMIC 1000PF X7R (1410)
C3099	1-114-365-11	CAP, CERAMIC 1000PF X7R (1410)
C3100	1-114-519-11	CAP, CERAMIC 100PF CH (1410)
C3101	1-114-519-11	CAP, CERAMIC 100PF CH (1410)
C3102	1-114-365-11	CAP, CERAMIC 1000PF X7R (1410)
C4004	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4008	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C4010	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4011	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C4012	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4013	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4016	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4017	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4021	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4022	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4025	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4029	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4030	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C4031	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4032	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4036	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4040	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V

REF.NO.	PART.NO	DESCRIPTION
C4043	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4044	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4046	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4050	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C4051	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C4052	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4103	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4104	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4106	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C4107	1-164-860-11	CERAMIC CHIP 27PF 5.00% 50V
C4108	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4109	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C4110	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4111	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4112	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C4301	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4302	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4304	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4307	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4308	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4309	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4310	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C4314	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4315	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4316	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4317	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4318	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4319	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4320	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4321	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4322	1-164-852-11	CERAMIC CHIP 12PF 5.00% 50V
C4323	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4324	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4325	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4326	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4327	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4328	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C4359	1-114-353-11	CAP, CERAMIC 0.01MF X7R (1410)
C4360	1-114-354-11	CAP, CERAMIC 0.1MF X7R (1410)
C4501	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4503	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4505	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C4601	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C4602	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C4700	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4702	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4704	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V

REF.NO.	PART.NO	DESCRIPTION
C4705	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4711	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C4714	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4715	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4718	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4719	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4721	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4722	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4723	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4726	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4729	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4730	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4731	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4732	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4734	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4735	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4737	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4741	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C4742	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C5504	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5505	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5506	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5512	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C5514	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5517	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5518	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C5521	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5526	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C5529	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C5536	1-164-874-11	CERAMIC CHIP 100PF 5.00% 50V
C6000	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C6001	1-112-068-11	CERAMIC CHIP 220PF 10% 50V
C6002	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6003	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C6004	1-114-354-11	CAP, CERAMIC 0.1MF X7R (1410)
C6008	1-112-781-11	CERAMIC CHIP 1UF 10% 10V
C6009	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C6010	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C6011	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6013	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C6014	1-112-781-11	CERAMIC CHIP 1UF 10% 10V
C6015	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C6016	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C6019	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6023	1-114-813-11	CERAMIC CHIP 1UF 10% 16V
C6027	1-112-781-11	CERAMIC CHIP 1UF 10% 10V
C6029	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V

REF.NO.	PART.NO	DESCRIPTION
C6031	1-112-778-11	CERAMIC CHIP 0.022UF 10% 25V
C6032	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C6033	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C6034	1-114-325-11	CERAMIC CHIP 0.1UF 10% 25V
C6036	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6051	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6055	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6073	1-112-781-11	CERAMIC CHIP 1UF 10% 10V
C6074	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C6078	1-114-869-11	CERAMIC CHIP 2.2UF 10% 6.3V
C6082	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C6086	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C6087	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C6088	1-114-869-11	CERAMIC CHIP 2.2UF 10% 6.3V
C6092	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C6098	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C6103	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C6104	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6106	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6107	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6108	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6109	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6111	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C6113	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C6114	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
C7300	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7302	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7303	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7304	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
C7800	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7801	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7802	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7803	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7804	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7805	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7806	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7807	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7808	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7809	1-164-858-11	CERAMIC CHIP 22PF 5.00% 50V
C7810	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7811	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7812	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7813	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7814	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7815	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7816	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7817	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V

REF.NO.	PART.NO	DESCRIPTION
C7818	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7819	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7820	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7821	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7822	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7823	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7824	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C7825	1-100-909-11	CERAMIC CHIP 10UF 10% 6.3V
C7826	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7827	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7828	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7829	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7832	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7833	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7834	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7835	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7836	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7837	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7838	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7839	1-114-802-11	CERAMIC CHIP 0.0033UF 10% 50V
C7840	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7842	1-100-766-21	ELECT CHIP 47UF 20% 16V
C7843	1-100-766-21	ELECT CHIP 47UF 20% 16V
C7844	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7845	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7846	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7847	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7848	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7849	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C7850	1-100-911-11	CERAMIC CHIP 4.7UF 10% 25V
C7851	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7852	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
C7853	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C7854	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
C7855	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7856	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
C7857	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7858	1-114-130-11	CERAMIC CHIP 1UF 10% 6.3V
C7859	1-114-813-11	CERAMIC CHIP 1UF 10% 16V
C7860	1-114-813-11	CERAMIC CHIP 1UF 10% 16V
C7861	1-114-813-11	CERAMIC CHIP 1UF 10% 16V
C7862	1-114-813-11	CERAMIC CHIP 1UF 10% 16V
C7863	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C7865	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C7866	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C7867	1-114-332-11	CERAMIC CHIP 22UF 10% 6.3V
C7869	1-100-912-11	CERAMIC CHIP 1UF 10% 25V

	REF.NO.	PART.NO	DESCRIPTION
	C7902	1-114-320-11	CERAMIC CHIP 0.22UF 10% 6.3V
	C7903	1-114-320-11	CERAMIC CHIP 0.22UF 10% 6.3V
	C7904	1-114-320-11	CERAMIC CHIP 0.22UF 10% 6.3V
	C7905	1-114-320-11	CERAMIC CHIP 0.22UF 10% 6.3V
	C7906	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	C7907	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	C7909	1-114-326-11	CERAMIC CHIP 0.22UF 10% 25V
	C7910	1-114-326-11	CERAMIC CHIP 0.22UF 10% 25V
	C7911	1-114-326-11	CERAMIC CHIP 0.22UF 10% 25V
	C7912	1-114-326-11	CERAMIC CHIP 0.22UF 10% 25V
	C7913	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7914	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7915	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
	C7916	1-100-916-11	CERAMIC CHIP 0.1UF 10% 16V
	C7917	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7918	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7919	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7920	1-100-905-11	CERAMIC CHIP 0.001UF 10% 50V
	C7923	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
	C7932	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
	C7933	1-114-331-11	CERAMIC CHIP 4.7UF 10% 10V
	C7945	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
	C7947	1-114-553-11	CERAMIC CHIP 10UF 10% 16V
	C7952	1-135-366-11	ELECT CHIP 100UF 20% 16V
	C7953	1-135-366-11	ELECT CHIP 100UF 20% 16V
	C7954	1-135-366-11	ELECT CHIP 100UF 20% 16V
	C7955	1-135-366-11	ELECT CHIP 100UF 20% 16V
	C7956	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
	C7957	1-112-777-11	CERAMIC CHIP 0.01UF 10% 25V
	C7958	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	C7959	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	C7960	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	C7961	1-100-912-11	CERAMIC CHIP 1UF 10% 25V
	CN3000	1-822-580-21	CONNECTOR DUAL SCART
	CN3091	1-822-954-11	PHONO BLOCK, OPTICAL OUT
	CN4102	1-779-936-51	CONNECTOR, FFC/FPC 18P
	CN4300	1-842-131-11	FLAT CABLE CONNECTOR 30P
	CN4500	1-842-087-11	D SUB CONNECTOR
	CN4600	1-821-834-12	USB CONNECTOR
	CN5500	1-822-637-11	HDMI CONNECTOR
	CN5501	1-822-638-11	HDMI CONNECTOR
	CN5502	1-822-638-11	HDMI CONNECTOR
	CN5503	1-822-638-11	HDMI CONNECTOR
	CN6006	1-821-624-11	HEADER ASSEMBLY FOR PWB 14P
*	CN6007	1-820-294-11	HEADER ASSEMBLY (PRINT PWB)15P
*	CN7300	1-822-579-31	CARD CONNECTOR (PCMCIA CARD)
	CN7901	1-821-614-11	HEADER ASSEMBLY FOR PWB 4P

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

	REF.NO.	PART.NO	DESCRIPTION
	D3007	6-502-172-01	DI UMZ5.6KTL
	D4501	6-502-172-01	DI UMZ5.6KTL
	D5510	6-502-979-01	DI DA4J104K0L
	D6001	6-502-979-01	DI DA4J104K0L
	D6002	6-502-979-01	DI DA4J104K0L
⚠	F6000	1-576-933-31	FUSE 5A 24V
	FB3001	1-400-693-21	FERRITE 0UH
	FB3002	1-400-693-21	FERRITE 0UH
	FB3003	1-400-693-21	FERRITE 0UH
	FB3004	1-400-693-21	FERRITE 0UH
	FB3090	1-400-834-11	FERRITE 0UH
	FB4300	1-400-940-21	FERRITE 0UH
	FB4301	1-400-940-21	FERRITE 0UH
	FB4302	1-400-940-21	FERRITE 0UH
	FB4500	1-469-080-11	FERRITE 0UH
	FB4501	1-469-080-11	FERRITE 0UH
	FB4502	1-469-080-11	FERRITE 0UH
	FB6000	1-400-461-21	FERRITE 0UH
	FB6001	1-400-461-21	FERRITE 0UH
	FB6002	1-400-180-21	FERRITE 0UH
	FL4002	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4003	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4004	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4005	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4006	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4008	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4009	1-200-056-21	FILTER, EMI REMOVAL (SMD)
	FL4301	1-200-014-21	FILTER, EMI REMOVAL (SMD)
	FL4700	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL4701	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL5500	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL5501	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	FL9999	1-234-939-21	FILTER, EMI REMOVAL (SMD)
	IC2002	8-753-332-87	IC CXD2817R-T4
	IC4000	6-715-172-01	IC PNX85433EH1/M2A/280CE
	IC4101	6-714-152-01	IC R1EX24064ASAS0A
	IC4103	6-713-333-01	IC PST8429UL
	IC4104	6-708-624-01	IC M25P10-AVMN6TP
	IC4601	6-711-288-01	IC MIC2005-0.5YM6TR
	IC4702	6-713-832-01	IC K4T51163QG-HCE7T
	IC4703	6-713-832-01	IC K4T51163QG-HCE7T
	IC4704	6-714-747-01	IC NAND01GW3B2CN6F
	IC5500	6-714-848-01	IC TDA19997HL/C1
	IC6000	6-706-419-01	IC LM393DT (A)
	IC6001	6-714-892-01	IC RP130N121D-TR-F
	IC6002	6-714-935-01	IC TPS54225PWPR
	IC6003	6-714-911-01	IC TPS54325PWPR

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

BEN

REF.NO.	PART.NO	DESCRIPTION
IC6004	6-714-935-01	IC TPS54225PWPR
IC6006	6-714-893-01	IC RP130N331D-TR-F
IC6007	6-715-131-01	IC RP131S181D-E2-F
IC6008	6-714-895-01	IC RP131H251D-T1-F
IC6010	6-711-132-01	IC MM3291CNRE
IC7301	6-707-850-01	IC TC74LCX245FT(EKJ)
IC7302	6-707-853-01	IC TC74LCX541FT(EKJ)
IC7303	6-711-288-01	IC MIC2005-0.5YM6TR
IC7801	8-753-334-44	IC CXA3813N-T4
IC7900	6-714-990-01	IC TPA3110D2PWPR
J3000	1-822-581-22	MULTIPLE PHONO JACK 4P
J3001	1-822-524-41	PHONO JACK 2P
J3003	1-822-523-11	PHONO JACK 5P
L2001	1-469-555-21	INDUCTOR 10UH
L2002	1-469-555-21	INDUCTOR 10UH
L2004	1-469-555-21	INDUCTOR 10UH
L2005	1-469-555-21	INDUCTOR 10UH
L2006	1-469-555-21	INDUCTOR 10UH
L6002	1-457-873-11	INDUCTOR 4.7UH
L6004	1-457-870-11	INDUCTOR 1.5UH
L6006	1-457-873-11	INDUCTOR 4.7UH
L7900	1-457-900-11	INDUCTOR 22UH
L7901	1-457-900-11	INDUCTOR 22UH
L7902	1-457-900-11	INDUCTOR 22UH
L7903	1-457-900-11	INDUCTOR 22UH
⚠ PS6001	1-576-736-51	IC LINK 3.15A 24V
⚠ PS6002	1-576-736-51	IC LINK 3.15A 24V
⚠ PS6003	1-576-736-51	IC LINK 3.15A 24V
Q3014	6-551-272-01	TRANSISTOR RT3CLLM
Q3016	6-551-321-01	TRANSISTOR RT3WLMM-TP-1F
Q3017	6-551-321-01	TRANSISTOR RT3WLMM-TP-1F
Q4700	6-552-444-01	TR DRC5144E0L
Q5501	6-551-701-01	TRANSISTOR INK0003AC1-T112A-1
Q5508	6-551-271-01	TRANSISTOR RT3AMMM
Q6000	6-552-407-01	TR DSA500100L
Q6001	6-552-408-01	TR DSC500100L
Q6005	6-552-407-01	TR DSA500100L
Q6007	6-551-272-01	TRANSISTOR RT3CLLM
Q7800	6-551-551-01	TRANSISTOR RT3N77M-TP-1
Q7801	6-551-551-01	TRANSISTOR RT3N77M-TP-1
Q7802	6-551-551-01	TRANSISTOR RT3N77M-TP-1
Q7803	6-552-407-01	TR DSA500100L
Q7804	6-551-551-01	TRANSISTOR RT3N77M-TP-1
Q7901	6-552-408-01	TR DSC500100L
Q7902	6-551-271-01	TRANSISTOR RT3AMMM
Q7903	6-551-271-01	TRANSISTOR RT3AMMM
R2016	1-218-937-11	METAL CHIP 47 5% 1/16W

REF.NO.	PART.NO	DESCRIPTION
R2017	1-218-937-11	METAL CHIP 47 5% 1/16W
R2018	1-208-715-11	METAL CHIP 22K 0.5% 1/16W
R2019	1-218-965-11	METAL CHIP 10K 5% 1/16W
R2021	1-220-802-11	METAL CHIP 3.3 5% 1/16W
R2023	1-218-965-11	METAL CHIP 10K 5% 1/16W
R2024	1-218-949-11	METAL CHIP 470 5% 1/16W
R2027	1-218-941-81	METAL CHIP 100 5% 1/16W
R2028	1-218-941-81	METAL CHIP 100 5% 1/16W
R2029	1-218-990-81	SHORT CHIP 0
R3005	1-218-941-81	METAL CHIP 100 5% 1/16W
R3007	1-218-941-81	METAL CHIP 100 5% 1/16W
R3008	1-218-941-81	METAL CHIP 100 5% 1/16W
R3009	1-218-941-81	METAL CHIP 100 5% 1/16W
R3012	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R3013	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R3079	1-216-817-11	METAL CHIP 470 5% 1/10W
R3090	1-218-935-11	METAL CHIP 33 5% 1/16W
R3102	1-216-817-11	METAL CHIP 470 5% 1/10W
R3103	1-218-948-11	METAL CHIP 390 5% 1/16W
R4006	1-208-888-81	METAL CHIP 1.1K 0.5% 1/16W
R4007	1-208-888-81	METAL CHIP 1.1K 0.5% 1/16W
R4008	1-208-903-11	METAL CHIP 4.7K 0.5% 1/16W
R4009	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4010	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4011	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4012	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4013	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4102	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4129	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4133	1-218-963-11	METAL CHIP 6.8K 5% 1/16W
R4134	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4138	1-218-963-11	METAL CHIP 6.8K 5% 1/16W
R4144	1-218-941-81	METAL CHIP 100 5% 1/16W
R4147	1-218-941-81	METAL CHIP 100 5% 1/16W
R4148	1-218-941-81	METAL CHIP 100 5% 1/16W
R4150	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R4151	1-208-671-11	METAL CHIP 330 0.5% 1/16W
R4155	1-218-941-81	METAL CHIP 100 5% 1/16W
R4171	1-218-941-81	METAL CHIP 100 5% 1/16W
R4172	1-218-941-81	METAL CHIP 100 5% 1/16W
R4173	1-218-941-81	METAL CHIP 100 5% 1/16W
R4174	1-218-941-81	METAL CHIP 100 5% 1/16W
R4175	1-218-941-81	METAL CHIP 100 5% 1/16W
R4176	1-218-941-81	METAL CHIP 100 5% 1/16W
R4179	1-218-941-81	METAL CHIP 100 5% 1/16W
R4180	1-218-941-81	METAL CHIP 100 5% 1/16W
R4181	1-218-941-81	METAL CHIP 100 5% 1/16W

REF.NO.	PART.NO	DESCRIPTION
R4182	1-218-941-81	METAL CHIP 100 5% 1/16W
R4183	1-218-941-81	METAL CHIP 100 5% 1/16W
R4184	1-218-941-81	METAL CHIP 100 5% 1/16W
R4185	1-218-941-81	METAL CHIP 100 5% 1/16W
R4186	1-218-941-81	METAL CHIP 100 5% 1/16W
R4187	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4188	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4189	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4190	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4191	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4192	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4193	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4194	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4195	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4196	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4197	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4198	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4199	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4200	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4201	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4202	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4203	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4204	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4205	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4206	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4211	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4212	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4213	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4214	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4302	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4305	1-218-966-11	METAL CHIP 12K 5% 1/16W
R4308	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4309	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4310	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4313	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4314	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4315	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4318	1-208-855-81	METAL CHIP 47 0.5% 1/16W
R4320	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4321	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4322	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4323	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4324	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4325	1-218-948-11	METAL CHIP 390 5% 1/16W
R4326	1-218-948-11	METAL CHIP 390 5% 1/16W
R4336	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4337	1-208-857-81	METAL CHIP 56 0.5% 1/16W

REF.NO.	PART.NO	DESCRIPTION
R4338	1-208-857-81	METAL CHIP 56 0.5% 1/16W
R4339	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4340	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4341	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4342	1-220-880-11	METAL CHIP 27 0.5% 1/16W
R4343	1-220-880-11	METAL CHIP 27 0.5% 1/16W
R4344	1-220-880-11	METAL CHIP 27 0.5% 1/16W
R4345	1-208-867-81	METAL CHIP 150 0.5% 1/16W
R4346	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4347	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4348	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4349	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4350	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4351	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4352	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4354	1-220-876-81	METAL CHIP 18 0.5% 1/16W
R4402	1-218-941-81	METAL CHIP 100 5% 1/16W
R4403	1-208-855-81	METAL CHIP 47 0.5% 1/16W
R4404	1-208-855-81	METAL CHIP 47 0.5% 1/16W
R4503	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R4510	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R4512	1-218-941-81	METAL CHIP 100 5% 1/16W
R4514	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4600	1-208-913-11	METAL CHIP 12K 0.5% 1/16W
R4700	1-218-953-11	METAL CHIP 1K 5% 1/16W
R4701	1-218-941-81	METAL CHIP 100 5% 1/16W
R4703	1-218-952-11	METAL CHIP 820 5% 1/16W
R4704	1-218-962-11	METAL CHIP 5.6K 5% 1/16W
R4708	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4709	1-218-957-11	METAL CHIP 2.2K 5% 1/16W
R4710	1-218-965-11	METAL CHIP 10K 5% 1/16W
R4712	1-208-881-81	METAL CHIP 560 0.5% 1/16W
R4713	1-208-881-81	METAL CHIP 560 0.5% 1/16W
R5507	1-208-913-11	METAL CHIP 12K 0.5% 1/16W
R5511	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R5516	1-218-970-11	METAL CHIP 27K 5% 1/16W
R5525	1-218-965-11	METAL CHIP 10K 5% 1/16W
R5527	1-208-913-11	METAL CHIP 12K 0.5% 1/16W
R6000	1-218-941-81	METAL CHIP 100 5% 1/16W
R6001	1-208-903-11	METAL CHIP 4.7K 0.5% 1/16W
R6002	1-208-913-11	METAL CHIP 12K 0.5% 1/16W
R6003	1-218-941-81	METAL CHIP 100 5% 1/16W
R6004	1-208-915-81	METAL CHIP 15K 0.5% 1/16W
R6006	1-218-941-81	METAL CHIP 100 5% 1/16W
R6007	1-208-715-11	METAL CHIP 22K 0.5% 1/16W
R6010	1-208-897-81	METAL CHIP 2.7K 0.5% 1/16W
R6012	1-208-903-11	METAL CHIP 4.7K 0.5% 1/16W

REF.NO.	PART.NO	DESCRIPTION
R6014	1-208-929-11	METAL CHIP 56K 0.5% 1/16W
R6015	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R6016	1-218-973-11	METAL CHIP 47K 5% 1/16W
R6021	1-218-965-11	METAL CHIP 10K 5% 1/16W
R6033	1-218-941-81	METAL CHIP 100 5% 1/16W
R6038	1-218-965-11	METAL CHIP 10K 5% 1/16W
R6041	1-218-977-11	METAL CHIP 100K 5% 1/16W
R6042	1-218-953-11	METAL CHIP 1K 5% 1/16W
R6043	1-218-973-11	METAL CHIP 47K 5% 1/16W
R6048	1-218-977-11	METAL CHIP 100K 5% 1/16W
R6049	1-218-977-11	METAL CHIP 100K 5% 1/16W
R6050	1-218-973-11	METAL CHIP 47K 5% 1/16W
R6056	1-218-941-81	METAL CHIP 100 5% 1/16W
R6062	1-208-895-11	METAL CHIP 2.2K 0.5% 1/16W
R6067	1-208-913-11	METAL CHIP 12K 0.5% 1/16W
R6068	1-208-929-11	METAL CHIP 56K 0.5% 1/16W
R6100	1-218-941-81	METAL CHIP 100 5% 1/16W
R7300	1-218-961-11	METAL CHIP 4.7K 5% 1/16W
R7307	1-218-941-81	METAL CHIP 100 5% 1/16W
R7314	1-218-965-11	METAL CHIP 10K 5% 1/16W
R7315	1-218-965-11	METAL CHIP 10K 5% 1/16W
R7316	1-218-965-11	METAL CHIP 10K 5% 1/16W
R7317	1-218-943-11	METAL CHIP 150 5% 1/16W
R7318	1-218-943-11	METAL CHIP 150 5% 1/16W
R7319	1-218-933-11	METAL CHIP 22 5% 1/16W
R7320	1-218-937-11	METAL CHIP 47 5% 1/16W
R7321	1-218-937-11	METAL CHIP 47 5% 1/16W
R7322	1-218-937-11	METAL CHIP 47 5% 1/16W
R7323	1-218-953-11	METAL CHIP 1K 5% 1/16W
R7800	1-218-941-81	METAL CHIP 100 5% 1/16W
R7801	1-208-860-81	METAL CHIP 75 0.5% 1/16W
R7804	1-220-880-11	METAL CHIP 27 0.5% 1/16W
R7814	1-208-887-11	METAL CHIP 1K 0.5% 1/16W
R7815	1-208-887-11	METAL CHIP 1K 0.5% 1/16W
R7903	1-208-903-11	METAL CHIP 4.7K 0.5% 1/16W
R7904	1-208-903-11	METAL CHIP 4.7K 0.5% 1/16W
R7908	1-208-927-11	METAL CHIP 47K 0.5% 1/16W
R7913	1-218-941-81	METAL CHIP 100 5% 1/16W
R7914	1-218-941-81	METAL CHIP 100 5% 1/16W
R7919	1-218-929-11	METAL CHIP 10 5% 1/16W
R7920	1-218-929-11	METAL CHIP 10 5% 1/16W
R7921	1-218-929-11	METAL CHIP 10 5% 1/16W
R7922	1-218-929-11	METAL CHIP 10 5% 1/16W
RB2006	1-234-372-11	RES, NETWORK 100 (1005X4)
RB2007	1-234-785-21	RES, CHIP NETWORK 100X8(3816)
RB2009	1-234-376-11	RES, NETWORK 2.2K (1005X4)
RB2010	1-234-372-11	RES, NETWORK 100 (1005X4)

REF.NO.	PART.NO	DESCRIPTION
RB3001	1-234-380-21	RES, NETWORK 47K (1005X4)
RB3005	1-200-051-21	RES, NETWORK 150 (1005X4)
RB3006	1-234-375-21	RES, NETWORK 1K (1005X4)
RB3007	1-234-375-21	RES, NETWORK 1K (1005X4)
RB3008	1-234-383-21	RES, NETWORK 470K (1005X4)
RB3009	1-234-383-21	RES, NETWORK 470K (1005X4)
RB3010	1-234-375-21	RES, NETWORK 1K (1005X4)
RB3011	1-234-375-21	RES, NETWORK 1K (1005X4)
RB3012	1-234-383-21	RES, NETWORK 470K (1005X4)
RB3014	1-234-383-21	RES, NETWORK 470K (1005X4)
RB3016	1-234-375-21	RES, NETWORK 1K (1005X4)
RB3017	1-234-383-21	RES, NETWORK 470K (1005X4)
RB3018	1-246-379-11	RESISTOR NETWORK 150 (3816)
RB3019	1-234-883-21	RES, CHIP NETWORK 100KX8(3816)
RB4001	1-234-378-21	RES, NETWORK 10K (1005X4)
RB4112	1-234-378-21	RES, NETWORK 10K (1005X4)
RB4113	1-234-378-21	RES, NETWORK 10K (1005X4)
RB4114	1-234-372-11	RES, NETWORK 100 (1005X4)
RB4115	1-234-376-11	RES, NETWORK 2.2K (1005X4)
RB4301	1-234-723-21	RES, NETWORK 75 (1005X4)
RB4302	1-234-372-11	RES, NETWORK 100 (1005X4)
RB4602	1-234-378-21	RES, NETWORK 10K (1005X4)
RB4717	1-234-892-21	RES, CHIP NETWORK 33X8 (3816)
RB4718	1-234-892-21	RES, CHIP NETWORK 33X8 (3816)
RB4719	1-245-943-21	RES, CHIP NETWORK 68X8 (3816)
RB4721	1-234-892-21	RES, CHIP NETWORK 33X8 (3816)
RB4722	1-242-963-21	RES, NETWORK 33 (1005X4)
RB4723	1-245-943-21	RES, CHIP NETWORK 68X8 (3816)
RB5502	1-234-380-21	RES, NETWORK 47K (1005X4)
RB5504	1-234-380-21	RES, NETWORK 47K (1005X4)
RB5506	1-234-376-11	RES, NETWORK 2.2K (1005X4)
RB5507	1-234-378-21	RES, NETWORK 10K (1005X4)
RB5509	1-234-379-21	RES, NETWORK 22K (1005X4)
RB5510	1-234-372-11	RES, NETWORK 100 (1005X4)
RB6000	1-234-378-21	RES, NETWORK 10K (1005X4)
RB6004	1-234-378-21	RES, NETWORK 10K (1005X4)
RB7308	1-234-892-21	RES, CHIP NETWORK 33X8 (3816)
RB7309	1-234-785-21	RES, CHIP NETWORK 100X8(3816)
RB7310	1-234-785-21	RES, CHIP NETWORK 100X8(3816)
RB7313	1-234-371-21	RES, NETWORK 47 (1005X4)
RB7314	1-234-378-21	RES, NETWORK 10K (1005X4)
RB7315	1-234-799-21	RES, CHIP NETWORK 10KX8 (3816)
RB7806	1-234-377-21	RES, NETWORK 4.7K (1005X4)
RB7811	1-234-381-11	RES, NETWORK 100K (1005X4)
RB7814	1-234-375-21	RES, NETWORK 1K (1005X4)
RB7816	1-234-381-11	RES, NETWORK 100K (1005X4)
RB7818	1-234-369-21	RES, NETWORK 10 (1005X4)

REF.NO.	PART.NO	DESCRIPTION
RB7819	1-234-375-21	RES, NETWORK 1K (1005X4)
RB7820	1-234-380-21	RES, NETWORK 47K (1005X4)
RB7821	1-242-963-21	RES, NETWORK 33 (1005X4)
RB7822	1-242-963-21	RES, NETWORK 33 (1005X4)
RB7823	1-242-963-21	RES, NETWORK 33 (1005X4)
RB7824	1-234-723-21	RES, NETWORK 75 (1005X4)
RB7825	1-234-375-21	RES, NETWORK 1K (1005X4)
RB7826	1-234-381-11	RES, NETWORK 100K (1005X4)
RB7827	1-242-963-21	RES, NETWORK 33 (1005X4)
RB7828	1-234-379-21	RES, NETWORK 22K (1005X4)
RB7829	1-234-379-21	RES, NETWORK 22K (1005X4)
RB7830	1-234-380-21	RES, NETWORK 47K (1005X4)
RB7831	1-234-380-21	RES, NETWORK 47K (1005X4)
RB7833	1-234-375-21	RES, NETWORK 1K (1005X4)
RB7902	1-234-883-21	RES, CHIP NETWORK 100KX8(3816)
RB7903	1-234-380-21	RES, NETWORK 47K (1005X4)
TU2000	8-597-735-00	UNIVERSAL SIL-TU SUT-AE102T
VD3002	1-802-078-11	VARISTOR (SMD)
VD3003	1-802-078-11	VARISTOR (SMD)
VD3004	1-802-078-11	VARISTOR (SMD)
VD3005	1-802-078-11	VARISTOR (SMD)
VD3006	1-802-078-11	VARISTOR (SMD)
VD3008	1-802-078-11	VARISTOR (SMD)
VD3009	1-802-078-11	VARISTOR (SMD)
VD3010	1-802-078-11	VARISTOR (SMD)
VD3011	1-802-078-11	VARISTOR (SMD)
VD3014	1-802-078-11	VARISTOR (SMD)
VD3015	1-802-078-11	VARISTOR (SMD)
VD3016	1-802-078-11	VARISTOR (SMD)
VD3017	1-802-078-11	VARISTOR (SMD)
VD3018	1-802-078-11	VARISTOR (SMD)
VD3019	1-802-078-11	VARISTOR (SMD)
VD3020	1-802-078-11	VARISTOR (SMD)
VD3021	1-802-078-11	VARISTOR (SMD)
VD3022	1-802-078-11	VARISTOR (SMD)
VD3023	1-802-078-11	VARISTOR (SMD)
VD3024	1-802-078-11	VARISTOR (SMD)
VD3025	1-802-078-11	VARISTOR (SMD)
VD3026	1-802-078-11	VARISTOR (SMD)
VD3027	1-802-078-11	VARISTOR (SMD)
VD3028	1-802-078-11	VARISTOR (SMD)
VD3029	1-802-078-11	VARISTOR (SMD)
VD3030	1-802-078-11	VARISTOR (SMD)
VD3031	1-802-078-11	VARISTOR (SMD)
VD3032	1-802-078-11	VARISTOR (SMD)
VD3033	1-802-078-11	VARISTOR (SMD)
VD3034	1-802-078-11	VARISTOR (SMD)

REF.NO.	PART.NO	DESCRIPTION
VD3035	1-802-078-11	VARISTOR (SMD)
VD3036	1-802-078-11	VARISTOR (SMD)
VD3037	1-802-078-11	VARISTOR (SMD)
VD3038	1-802-078-11	VARISTOR (SMD)
VD6000	1-802-078-11	VARISTOR (SMD)
VD6001	1-802-078-11	VARISTOR (SMD)
VD6002	1-802-078-11	VARISTOR (SMD)
X2000	1-814-238-11	VIBRATOR, CRYSTAL
X4100	1-814-173-11	VIBRATOR, CRYSTAL
1-474-208-11 G2LS Board (32 inches only)		
COMPONENT LEVEL REPAIR INFORMATION IS NOT AVAILABLE		
1-474-199-11 G1LS Board (26 inches only)		
COMPONENT LEVEL REPAIR INFORMATION IS NOT AVAILABLE		
1-474-204-31 GD1 Board (22 inches only)		
COMPONENT LEVEL REPAIR IS NOT AVAIABLE		

9-883-477-51

Sony Corporation
Sony UK
Service Promotions Dept.

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