

SAFETY PRECAUTIONS

SERVICE WARNING

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

GENERAL GUIDELINES

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

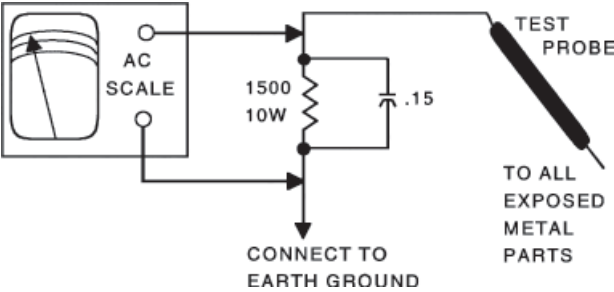
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



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

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QUICKFACT
FROM PHOTOFAC[®]
LCD SERIES

SET 5514

MODEL 42PFL7422D/37 (CHASSIS Q523.1ULA)

PHILIPS

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THIS IS A GREEN PRODUCT

Do not use lead based solder for repair. Use only green product parts for replacement.

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

5514

Technical Service Data

PHILIPS
MODEL 42PFL7422D/37 (CHASSIS Q523.1ULA)



Representative Model

Essential Coverage For Servicing

LCD Receiver...

- Component Locations
- Parts list
- Placement chart
- Power Supply Schematic

Coverage includes this additional model:

Model	Chassis
42PFL7432D/37	Q523.1ULA)



NOVEMBER 2009 SET 5514

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MISCELLANEOUS ADJUSTMENTS

Service Default Mode (SDM)

To Enter: With the standard remote key in code “062596” directly followed by pressing the “Menu” button. The set will automatically tune to Channel 3 analog where the picture settings for brightness, color, and contrast will be 50%. Sound settings will be 50% except volume at 25%. All service-unfriendly modes (if present) are disabled, like: Sleep Timer, Child/parental lock, picture mute, auto volume level, auto switch off (no video for 10 minutes), skip/blank of non-favorite pre-sets, smart modes, auto store of personal presets, and auto user menu time-out. Letters “SDM” will be shown in the upper right area of the screen along with the customer menu display. Customer menu can be toggled on and off with the “Menu” button. The SDM will still be running in the background when customer menu is off.

To Exit SDM: With the remote key in “00” or switch the set to Stand-By.

Service Alignment Mode (SAM)

- Purpose:
- Software alignments.
- Change option settings.
- Identify the TV’s software version.
- Check operational hours.
- Display/Clear error codes.

To Enter: Select a desired channel for viewing then with the remote key in code “062596” directly followed by pressing the “Info” button. After activating SAM a service warning will appear on the screen, continue by pressing the red button on the remote (Channels cannot be changed while in SAM mode) While in the SAM mode, perform software alignments, change option settings, identify the software version, view operation hours, display or clear the error code buffer. Navigate using the remote “Cursor up/down” buttons for menu items, and the “Cursor left/right” buttons to activate or deactivate menu items and submenu items. Us the “OK” button to activate the selected action.

To Exit SAM: With the remote press “Menu” or switch the set to Stand-by.

Contents of SAM:

Hardware Info.
A. SW Version. Displays the software version of the main software (example: Q531U-1.2.3.4= AAAAB_X.Y.W.Z). The AAAA= the software name. The B= the region: A=AP, E=EU, L=LATAM, U=US. For AP sets it is possible that the Europe software version is used. X.Y.W.Z= the software version, X is the main version number (different numbers are not compatible with one another). The Y.W.Z is the sub version number (a higher number is always compatible with a lower number).
B. SBY PROC Version: stand-by Processor’s (software version).
C. Production Code: same as serial number on the back of the TV. If an NVM is replaced or is initialized after corruption the code will need to be re-written to NVM (Non-Volatile Memory IC) per ComPair software.
Operation Hours: shows accumulated operation hours (not STBY hours). Each time the TV is switched on/off 0.5hours is added to the number.
Errors: the most recent error will be displayed to the left of the 10-numatic lists. **Note:** see Error Code Overview.
Reset Error Buffer: press the “cursor right” then the “OK” buttons on the remote to reset the error buffer.
Alignments: this will activate the “Alignments” submenu.
Dealer Options: extra features for the dealers.

Options: extra features of Service. Contains a list of seven Menu Items which includes the last item: Option Group1 & 2 code number “064” which can be found on a sticker inside the TV for these models: 42PFL7422D/37, 42PFL7432D/37. **Note:** confirm changes with the “OK” button before moving the cursor to the left, select Store and press “OK” to store changes.

Initialize NVM (Non-Volatile Memory): changing the display option via a standard remote by keying in the code “062598” directly followed by the “Menu” button and “064”. (Make sure to key in all three digits of “064” including the leading zero). (Code number “064” can be found on a sticker inside the TV for these models: 42PFL7422D/37, 42PFL7432D/37). When the process is successful the front LED will go out as an indication that the remote sequence was correct. After the display option is changed in the NVM the TV will go to the Stand-by mode. If the NVM was corrupted or empty before this action it will be initialized first (loaded with default values). The initializing can take up to 20 seconds. All options and alignments are stored when pressing “cursor right” (or the “OK” button) and then the “OK” button.

SW Maintenance: SW & HW are not used for service purposes. In case of specific software problems the development department can ask for this information.

Operation hours PDP: not applicable for LCD sets.

Test settings: for development purposes only.

Upload to USB: here several settings from the TV to a USB stick can be uploaded via the Side I/O. The items are “Channel list”, “Personal settings”, “Option codes” and “Display-related alignments”. First a root directory must be created in the USB stick “repair\”. To upload the settings select each item separately, press “cursor right”, confirm with “OK” and wait until “Done” appears. Now the settings are stored onto the USB stick and can be used to download onto another TV or other SSB. Uploading is only possible if the software is running and if the TV has a picture. This method is created to be able to save the customer’s TV settings and to store them into another SSB.

Download from USB: downloading several settings from the USB stick to the TV. This works similar to the uploading process. To make sure that the download of the channel list from USB to the TV is executed properly it is necessary to restart the TV and tune to a valid preset channel.

Customer Service Mode (CSM)

Purpose: when CSM is activated a color bar test pattern will be visible for 5 seconds. The test pattern is generated by, the Pacific3. So with this test pattern it can be determined if the back end video chain (Pacific3, LVDS and Display) is working. Because of the possible addition of the DFI function, the Pacific IC is not any longer the last hardware block in front of the display. This means that switching on the Pacific test pattern resulting in no or bad picture can be caused by a bad DFI or Display. To distinguish between these two the DFI test pattern will be switched on for three seconds, three seconds after the Pacific test pattern is started. This will result in the following sequence:

- CSM entry code given
- 3 sec DFI test pattern
- 5 sec Pacific test pattern
- CSM menu entered

Also when the CSM is activated and there is a USB stick connected to the TV the software will dump the complete CSM content to the USB stick. The file (Csm.txt) will be saved in the root of the USB stick. This information can be useful if there is no picture. Another item in this chassis is when CSM is activated the complete error-buffer content will be shown via the blinking LED procedure.

To Enter: With the standard remote control key in code “123654”. **Note:** the menu screen must be off. The CSM is a read only mode, no modifications are possible. Therefore the contents are useful to the Technician or Helpdesk while determining the severity of a customer complaint. CSM contents can be viewed, see list below:

Set Type: view information with out looking at the back cover.
Production Code: displays production serial number.
Code 1: list the latest five errors of the error buffer.
Code 2: gives the first five errors of the error buffer.
Options 1: indicates option codes group 1 as set in Service Alignment Mode.
Options 2: indicates option codes group 2 as set in Service Alignment Mode.
12NC SSB: identification of the SSB as stored in the NVM.
Installed Date: indicates first installation of the TV.
Pixel plus: last status of the Pixel Plus setting.
DNR: selected dynamic noise reduction setting.
Noise Figure: noise ratio of the selected transmitter.
12NC Display: 12NC of the display.
Headphone Volume: status level set by customer.
Surround Mode: customer sound selected mode.
AVL: indicates on or off of the automatic volume level.
Delta Volume: indicates status of delta volume preset by customer.
Volume: indicates status of volume preset by customer from “0-100”.
Balance: indicates status of balance by customer from “-10to+10”.
Preset Lock: indicates selected preset has a child lock, locked or unlocked.
Lock After: time of channel lock activation.
TV Ratings Lock: indicates “TV Ratings Lock” as set by customer.
Movie Ratings Lock: indicates movie ratings lock as set by customer.
V-Chip TV Status: indicates setting of the V-Chip channels selected.
V-Chip Movie Status: indicates setting of the V-Chip channels selected.
Region rating status (RRT): displays the rating region table.
Region rating enabled: indicates if the ratings are enabled.
Table channel changed: indicated if the table has changed at broadcast side.

On Timer: indicates “On Timer” is set On/Off.
Location: status of the last location setting via installation menu “Home/Shop”.
HDMI key validity: indicates the key’s validity.
TV System: type of TV signal received.
12NC one zip SW: 12NC files for programming software in production. In this one-zip file the following software versions can be found: **Initial main SW, Current main SW, Flash utilities SW, Standby SW, MOP SW, Pacific 3 Flash SW, and NVM version.**

To Exit CSM mode: Press any key on the remote control except “channel +/-“, “volume”, “mute” or digit (0-9) keys.

How to Read the Error Buffer
Use one of the following methods:
On screen, via the SAM: (only if the picture is present).
00 00 00 00 00: No errors detected.
06 00 00 00 00: Error code 6 is the last and only detected error.
09 06 00 00 00: Error code 6 was first detected and error code 9 is the last.

Via the blinking LED procedure: (when no picture is present).
Via ComPair:
Via CSM: When CSM is activated the blinking LED procedure will start and the CSM content will be written to a USB stick (if present).

MISCELLANEOUS ADJUSTMENTS continued

How to Clear the Error Buffer

Use one of the following methods:
By selecting the (Reset Error Buffer) command in the SAM menu.
With a normal remote key in sequence “Mute” followed by “062599” and “OK”.
If the content of the error buffer has not changed for 50+ hours, it resets automatically.

Error Code Overview

Error Description	Error/Prot	Detected by	Device	Result	
03	I2C3	E	MIPS	PNX85xx	Logged
05	PNX85xx no boot	E	STBY-P	PNX85xx	Blinking
06	5V, 12V supply	P	STBY-P	/	Protect
08	1V2, 1V4, 2V5, 3V3	P	STBY-P	/	Protect
09	Supply fault	P	STBY-P	/	Protect
11	I2C-MUX1	E	MIPS	PCA9540	Logged
12	I2C-MUX1	E	MIPS	PCA9540	Logged
23	HDMI multiplexer	E	MIPS	AD8190	Logged
24	I2C switch	E	MIPS	PCA9540	Logged
26	Master IF	E	MIPS	TDA9898, 97	Logged
28	MOP FPGA 1080P	E	MIPS	EP2CXXF484	Logged
34	Tuner	E	MIPS	/	Logged
37	Channel decoder	E	MIPS	TDA10060	Logged
46	Pacific	E	MIPS	/	Logged
53	PNX8535 no boot	E	STBY-P	PNX85xx	Blinking
63	Power OK	P	MIPS	/	Protect
65	DF1	E	MIPS	/	Blinking

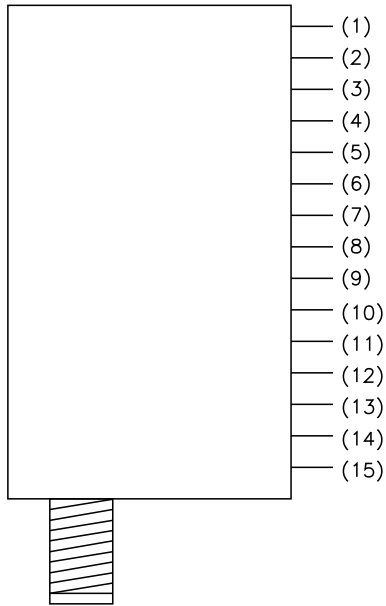
Exit Factory Mode

When an “F” is displayed in the upper right corner of the screen, this means the set is in “Factory” mode and normally happens after a new SSB has been installed.

To Exit, push and hold the “Volume minus” button on the TV’s keyboard for 5 seconds and restart the set.

TUNER INFORMATION

TU1T04 Terminal Guide

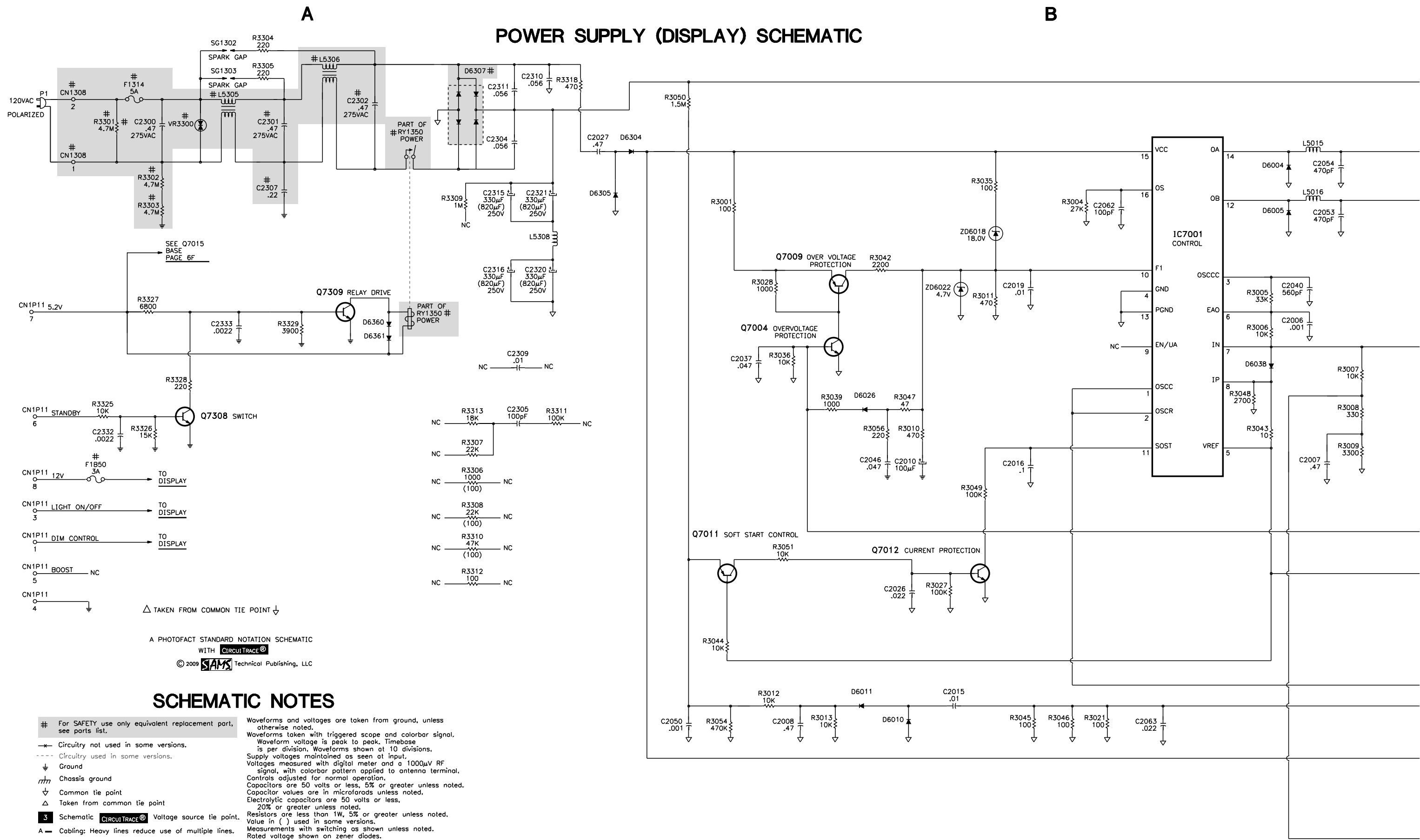


TU1T04 TUNER

PIN	Description	Voltage
1	APO	-
2	RF OUT	.03V
3	ERF GAIN	2.5V
4	FM TRAP	-
5	PLL	3.3V
6	SCL	3.3V
7	SDA	3.3V
8	4MHZ	1.9V
9	VTU	5.0V
10	GND	0V
11	IF OUT	1.0V
12	GND	0V
13	GND	0V
14	GND	0V
15	GND	0V

SCHEMATIC COMPONENT LOCATION GUIDE

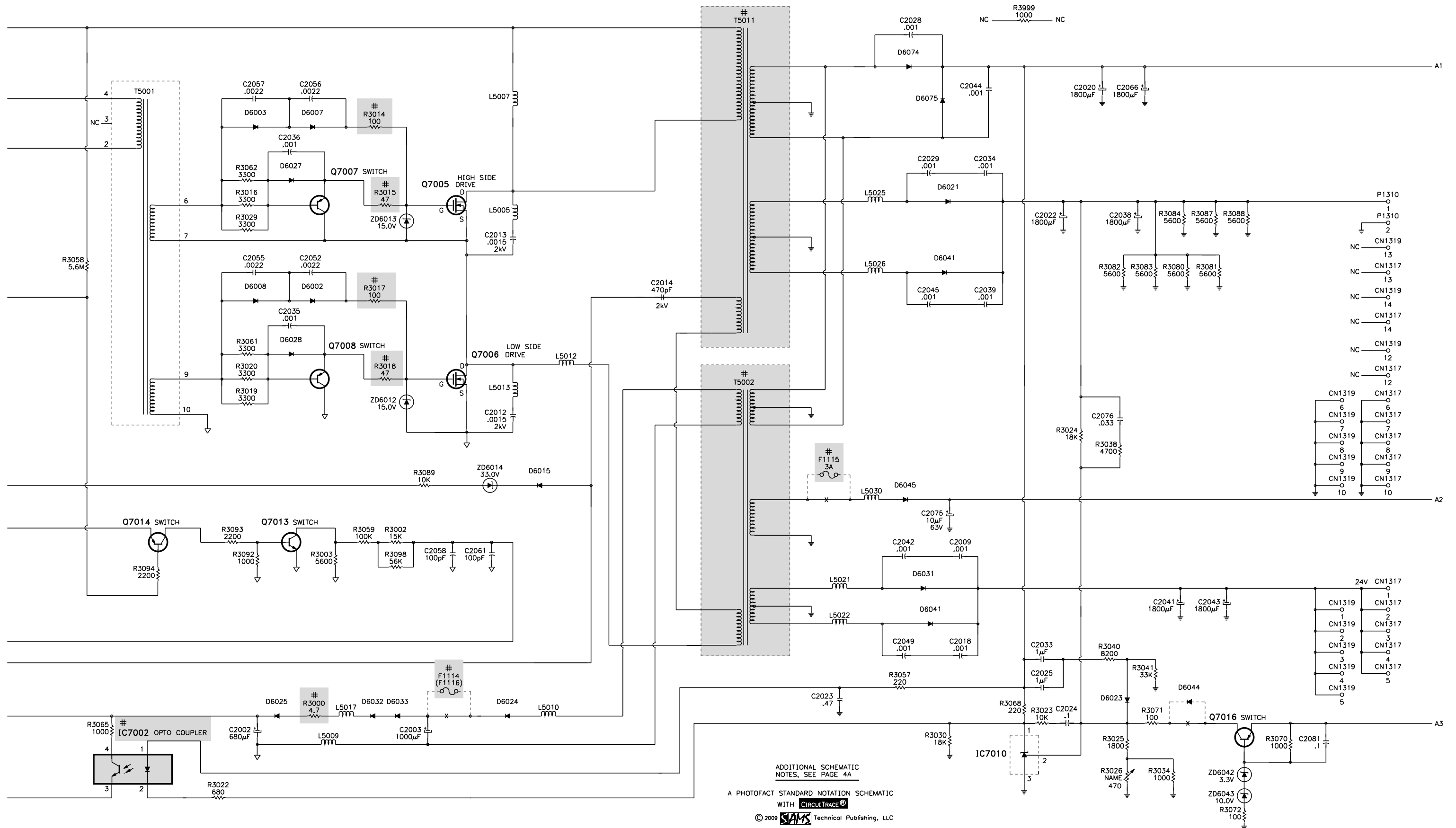
C2002	E10	C2332	C1	D6074	A13	Q7405	C23	R3070	E16	R3B37	C26
C2003	E11	C2333	B2	D6075	A14	Q7407	C22	R3071	E15	R3B38	C26
C2006	B8	C2401	A20	D6304	A4	Q7B00	C26	R3072	E15	R3B39	C26
C2007	C8	C2402	A20	D6305	B4	Q7B01	D28	R3080	B15	R3B40	C26
C2008	E5	C2403	D19	D6307	A3	Q7B02	C27	R3081	B15	R3B41	C26
C2009	D14	C2404	D19	D6360	B3	Q7B05	B28	R3082	B15	R3B42	D26
C2010	C6	C2405	C21	D6361	B3	Q7B06	C30	R3083	B15	R3B43	D27
C2012	C11	C2407	C20	D6401	A19	Q7B50	D31	R3084	B15	R3B44	D27
C2013	B11	C2408	A17	D6403	A18	Q7B50-1	E30	R3087	B15	R3B45	D28
C2014	B12	C2410	C20	D6406	B23	Q7B50-2	D30	R3088	B15	R3B46	C27
C2015	E6	C2411	A19	D6407	C24	R3000	E10	R3089	D11	R3B47	C26
C2016	C6	C2B30	A26	D6409	C24	R3001	B5	R3092	D10	R3B48	C27
C2018	D14	C2B31	A27	D6B04	A27	R3002	D11	R3093	D10	R3B49	C28
C2019	B6	C2B32	B25	D6B05	C30	R3003	D10	R3094	D9	R3B50	C28
C2020	A14	C2B33	B25	D6B06	B30	R3004	B7	R3095	A21	R3B51	C28
C2022	B14	C2B34	B25	D6B07	A30	R3005	B8	R3096	A22	R3B52	C28
C2023	E13	C2B35	C26	D6B08	A30	R3006	B8	R3097	A22	R3B54	D31
C2024	E14	C2B36	C27	D6B11	C25	R3007	C8	R3098	D11	R3B55	D30
C2025	E14	C2B37	C26	F1314	A1	R3008	C8	R3301	A1	R3B60	A27
C2026	D6	C2B38	C25	F1B32	A25	R3009	C8	R3302	B1	R3B61	D30
C2027	A4	C2B39	C25	F1B33	C30	R3010	C6	R3303	B1	R3B62	D30
C2028	A13	C2B40	C25	F1B50	C1	R3011	B6	R3304	A2	R3B63	D30
C2029	B13	C2B41	D28	IC7001	B7	R3012	E5	R3305	A2	R3B64	E30
C2033	E14	C2B42	D30	IC7002	E9	R3013	E5	R3306	C3	R3B65	E30
C2034	B14	C2B43	C27	IC7010	E14	R3014	B10	R3307	C3	R3B66	D31
C2035	C10	C2B44	D28	IC7401	B20	R3015	B10	R3308	C3	R3B67	B25
C2036	B10	C2B45	C30	IC7B04	D29	R3016	B10	R3309	B3	R3B68	B25
C2037	C5	C2B46	B30	IC7B07	C30	R3017	C10	R3310	D3	R3B69	B25
C2038	B15	C2B47	B30	L5005	B11	R3018	C10	R3311	C4	R3B70	B26
C2039	C14	C2B48	A30	L5007	A11	R3019	C10	R3312	D3	R3B71	A26
C2040	B8	C2B49	C30	L5009	E11	R3020	C10	R3313	C3	R3B72	B31
C2041	D15	C2B50	A28	L5010	E11	R3021	E7	R3318	A4	R3B73	C31
C2042	D13	C2B51	B30	L5012	C11	R3022	E10	R3325	C1	R3B74	C31
C2043	D15	C2B52	B29	L5013	C11	R3023	E14	R3326	C1	R3B75	B25
C2044	A14	C2B55	E30	L5015	A8	R3024	C14	R3327	B1	R3B76	B25
C2045	C13	C2B56	C27	L5016	B8	R3025	E15	R3328	C2	R3B77	B25
C2046	C6	C2B57	C25	L5017	E10	R3026	E15	R3329	B2	R3B78	B26
C2049	D13	C2B58	C25	L5021	D13	R3027	D6	R3401	B19	R9407	B22
C2050	E4	C2B59	D27	L5022	D13	R3028	B5	R3403	C19	RY1350	A3
C2052	B10	C2B60	A28	L5025	B13	R3029	B10	R3404	D19	RY1350	B3
C2053	B8	C2B61	C30	L5026	B13	R3030	E14	R3405	C20	SG1302	A2
C2054	A8	C2B62	C31	L5028	A23	R3034	E15	R3406	A19	SG1303	A2
C2055	B10	C2B63	C30	L5029	A23	R3035	B6	R3407	A18	SG1B30	A26
C2056	A10	D6002	C10	L5030	D13	R3036	C5	R3408	A18	SG1B31	A26
C2057	A10	D6003	B10	L5305	A2	R3038	C15	R3409	B22	T5001	A9
C2058	D11	D6004	A8	L5306	A2	R3039	C5	R3410	C22	T5002	C12
C2061	D11	D6005	B8	L5308	B4	R3040	E14	R3411	C21	T5011	A12
C2062	B7	D6007	B10	L5401	A19	R3041	E15	R3412	C23	T5B01	A29
C2063	E7	D6008	C10	L5B00	A26	R3042	B5	R3413	C23	VR3300	A2
C2066	A15	D6010	E6	P1	A1	R3043	C8	R3416	C24	ZD6012	C11
C2069	B21	D6011	E5	Q7004	B5	R3044	D5	R3417	C24	ZD6013	B11
C2075	D14	D6015	D11	Q7005	B11	R3045	E6	R3418	C20	ZD6014	D11
C2076	C15	D6021	B14	Q7006	C11	R3046	E7	R3419	A18	ZD6018	B6
C2081	E16	D6023	E15	Q7007	B10	R3047	C6	R3420	B23	ZD6022	B6
C2300	A1	D6024	E11	Q7008	C10	R3048	C8	R3425	C22	ZD6042	E15
C2301	A2	D6025	E10	Q7009	B5	R3049	C6	R3426	C22	ZD6043	E15
C2302	A3	D6026	C5	Q7011	D5	R3050	A4	R3427	C23	ZD6069	B20
C2304	A3	D6027	B10	Q7012	D6	R3051	D5	R3430	D20	ZD6076	A20
C2305	C3	D6028	C10	Q7013	D10	R3054	E5	R3999	A14	ZD6402	A18
C2307	B2	D6031	D13	Q7014	D9	R3056	C6	R3B29	C31	ZD6B02	D31
C2309	C3	D6032	E10	Q7015	A21	R3057	E13	R3B30	B25	ZD6B03	D29
C2310	A4	D6033	E11	Q7016	E15	R3058	B9	R3B31	B25	ZD6B09	C29
C2311	A3	D6038	C8	Q7308	C2	R3059	D10	R3B32	B25	ZD6B10	B28
C2315	B3	D6041	B14	Q7309	B2	R3061	C10	R3B33	B26	ZD6B13	D30
C2316	B3	D6041	D13	Q7402	A18	R3062	B10	R3B34	A27	ZD6B14	E27
C2320	B4	D6044	E15	Q7403	B22	R3068	E14	R3B35	B26	ZD6B15	C31
C2321	B4	D6045	D13	Q7404	C23	R3069	B20	R3B36	C26		



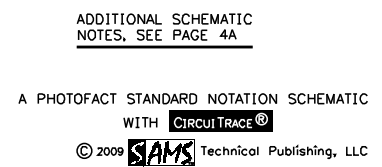
C

POWER SUPPLY (DISPLAY) SCHEMATIC continued

D



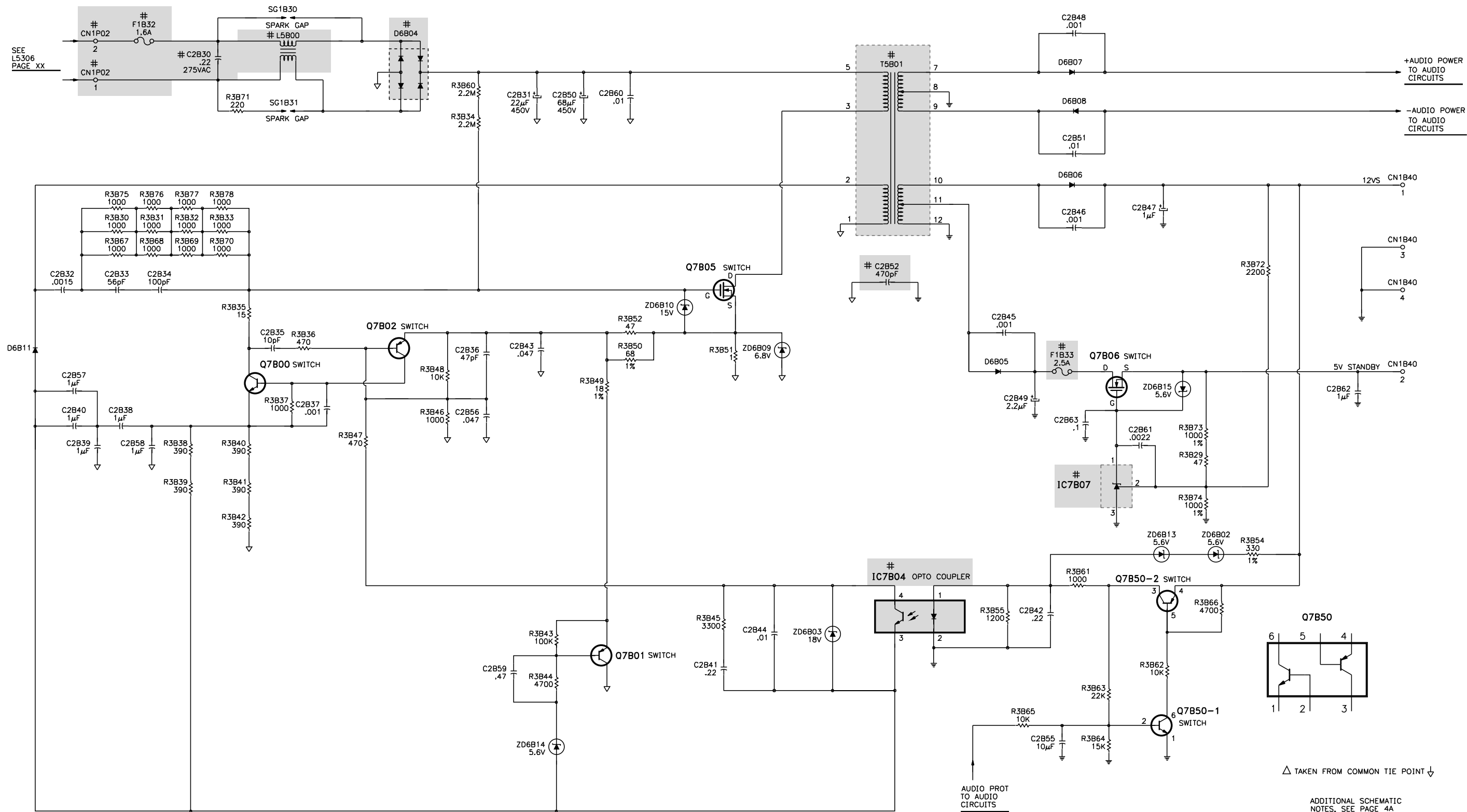
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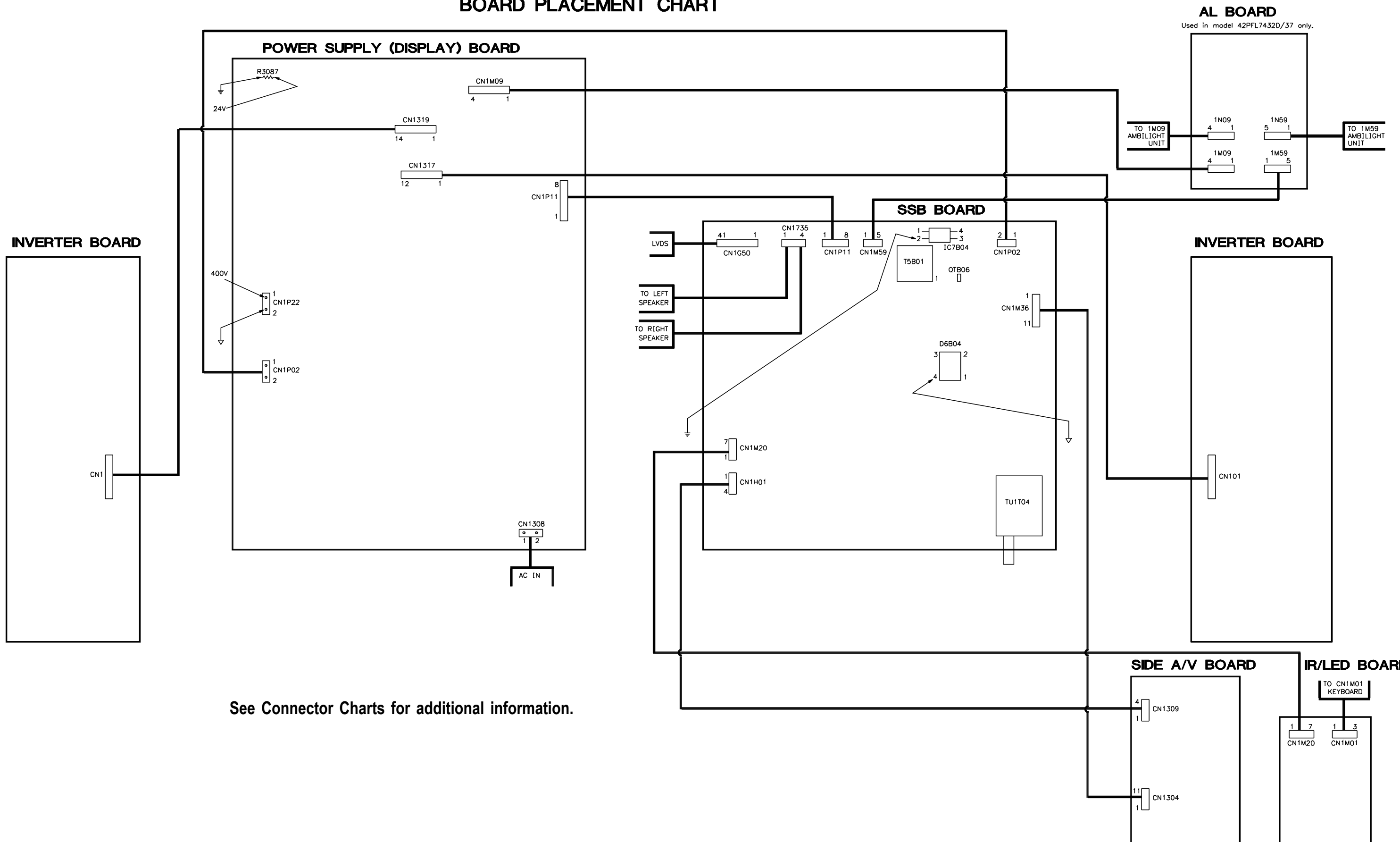
POWER SUPPLY (SSB AUDIO) SCHEMATIC



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MODEL 42PFL7422D/37 (CHASSIS Q523-1ULA)

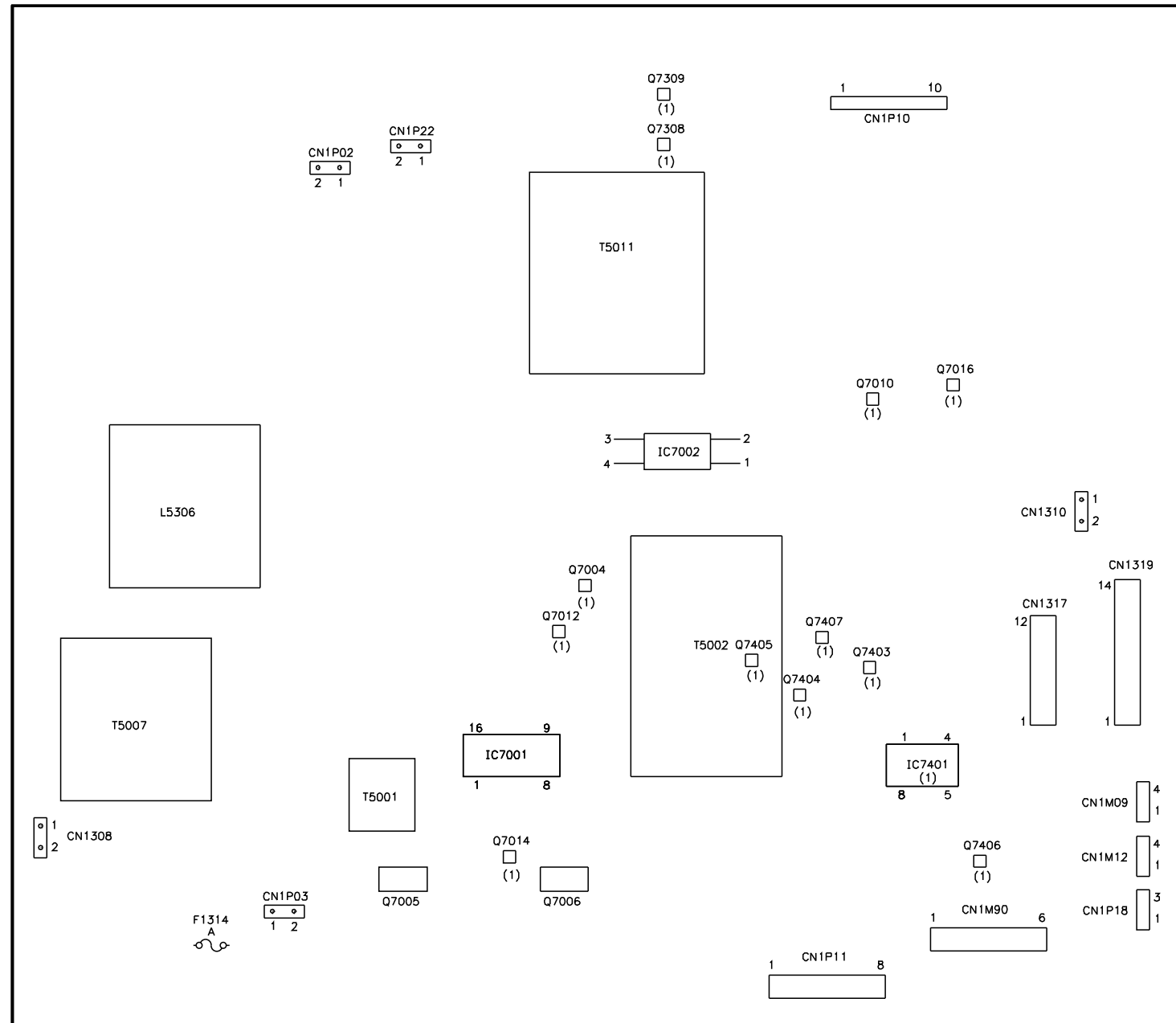
BOARD PLACEMENT CHART



COMPONENT PLACEMENT CHART

See Connector Charts for additional information.

A (DISPLAY SUPPLY) BOARD



(1) LOCATED ON OTHER SIDE OF BOARD

CONNECTOR CHART

IR/LED BOARD

CN1M01			CN1M20					
Pin	Pin ID	Voltage	Pin	Pin ID	Voltage	Pin	Pin ID	Voltage
1	GND	0V	1	Light Sensor	1.4V	5	5VS	5.0V
2	Keyboard	5.0V	2	GND	0V	6	LED1	3.0V
3	GND	0V	3	RC	3.3V	7	Keyboard	5.0V
			4	LED2	3.0V			

POWER SUPPLY (DISPLAY) BOARD

[illegible]

SSB BOARD

CN1G50			CN1M59			CN1P11		
Pin	Pin ID	Voltage	Pin	Pin ID	Voltage	Pin	Pin ID	Voltage
	DO NOT MEASURE		1	SCL-AMBI	3.3V	1	Back Light OK	3.0V
			2	GND	0V	2	Power OK Display	3.0V
			3	SDA-AMBI	3.3V	3	Lamp on	3.8V
Pin	CN1M36	Voltage	4	GND	0V	4	GND	0V
1	GND	0V	5	GND	0V	5	Back Light Boost	4.0V
2	Front Y-CVBS	8.0V				6	Stand-by	5.0V
3	GND	0V	Pin	CN1H01	Voltage	7	Stand-by	5.0V
4	Front C	-	1	Outout	5V	8	12v Display	12.0V
5	GND	0V	2	USB20-1-DM	-			
6	Audio IN5 L	-	3	USB20-1-DP	-	Pin	CN1M20	Voltage
7	NC	0V	4	GND	0V	1	Light Sensor	1.4V
8	Audio IN5 R	-				2	GND	0V
9	GND	0V	Pin	CN1735	Voltage	3	RC	3.3V
10	L Audio Head	-	1	Left Speaker	1.6V	4	LED2	3.0V
11	R Audio Head	-	2	GND	0V	5	5VS	5.0V
			3	GND	0V	6	LED1	3.0V
			4	Right Speaker	1.6V	7	Keyboard	5.0V
Pin	CN1P02	Voltage						
1	ACV	120.0V						
2	ACV	0V						

SIDE A/V BOARD

CN1304						CN1309		
Pin	Pin ID	Voltage	Pin	Pin ID	Voltage	Pin	Pin ID	Voltage
1	GND	0V	7	NC	0V	1	Outout	5V
2	Front Y-CVBS	8.0V	8	Audio IN5 R	-	2	USB20-1-DM	-
3	GND	0V	9	GND	0V	3	USB20-1-DP	-
4	Front C	-	10	L Audio Head	-	4	GND	0V
5	GND	0V	11	R Audio Head	-			
6	Audio IN5 L	-						

Item No.	Type No.	Mfr. Part No.	Notes
D6002, 03	BAS316	4822 130 11397	-
D6004, 05	BAT54	4822 130 80622	-
D6007, 08	BAS316	4822 130 11397	-
D6010, 11	BAS316	4822 130 11397	-
D6015	BAS316	4822 130 11397	-
D6021	STPS8H100F	4822 130 11572	-
D6023	BAS316	4822 130 11397	-
D6024, 25	BYG22D	9322 202 55685	-
D6026	BAT54	4822 130 80622	-
D6027, 28	BAS316	4822 130 11397	-
D6031	STPS8H100F	4822 130 11572	-
D6032, 33	BYG22D	9322 202 55685	-
D6038	BAS316	4822 130 11397	-
D6040, 41	STPS8H100F	4822 130 11572	-
D6045	BYG22D	9322 202 55685	-
D6074, 75	STPS8H100F	4822 130 11572	-
D6304	BAS316	4822 130 11397	-
D6305	BAS316	4822 130 11397	-
D6307	TS6B05G-06	9322 237 00682	-
D6360, 61	BAS316	4822 130 11397	-
D6401	STPS745FP	9322 161 46687	-
D6403	BAS316	4822 130 11397	-
D6406, 07	BAS316	4822 130 11397	-
D6409	BAS316	4822 130 11397	-
D6B04	DF06M-E3	9338 118 70682	-
D6B05	SS36	3198 010 10730	-
D6B06	BYW29-200-E3	9322 202 76687	-
D6B07, 08	MBRS1100	9322 085 69668	-
D6B11	RS1D-E3	9322 203 84685	-
Q7004	BC847BW	3198 010 42310	-
Q7005, 06	FQPF18N50V2	9322 205 26687	-
Q7007, 08, 09	BC857BW	3198 010 42320	-
Q7011	BC857BW	3198 010 42320	-
Q7012, 13	BC847BW	3198 010 42310	-
Q7014, 15, 16	BC857BW	3198 010 42320	-
Q7308	BC847BW	3198 010 42310	-
Q7309	BC817-25W	9340 219 30115	-
Q7402	STP55NF06FP	9322 183 30687	-
Q7403	BC807-25W	3198 010 44350	-
Q7404	BC847BW	3198 010 42310	-
Q7405	BC817-25W	9340 219 30115	-
Q7407	BC857BW	3198 010 42320	-
Q7B00	BC817-25W	9340 219 30115	-
Q7B01, 02	BC857BW	3198 010 42320	-
Q7B05	STP5NK60ZFP	9322 194 29687	-
Q7B06	PHD38N02LT	9340 575 87118	-
Q7B50-1, 2	BC847BPN	9340 425 30115	-
IC7001	MC34067P	9322 108 21682	-
IC7002	TCET1102	9322 149 04682	-
IC7010	TS2431AI	9322 192 16685	-
IC7401	MC34063AD	5322 209 90529	-
IC7B04	TCET1102	9322 149 04682	-
IC7B07	TS2431AI	9322 192 16685	-
ZD6012, 13	BZG05C15	9322 208 80685	-
ZD6014	PDZ33B	9340 548 71115	-
ZD6018	UDZ18B	4822 130 11152	-
ZD6022	UDZ4.7B	4822 130 11148	-
ZD6042	PDZ5.6B	9340 548 53115	-
ZD6043	UDZS10B	4822 130 11551	-
ZD6076	UDZ3.3B	4822 130 10838	-
ZD6301 Thru			
ZD6306	DF3A6.8FU	9322 146 61685	-
ZD6402	UDZ18B	4822 130 11152	-
ZD6B02	PDZ5.6B	9340 548 53115	-
ZD6B03	BZX384-C18	3198 020 51890	-
ZD6B09	BZG05C6V8	9322 208 44685	-
ZD6B10	BZG05C15	9322 208 80685	-
ZD6B13, 14	PDZ5.6B	9340 548 53115	-
ZD6B15	BZX384-C5V6	3198 020 55680	-

PARTS LIST

Item No.	Function/Rating	Mfr. Part No.	Notes
# C2012, 13	.0015 10% 2kV	4822 126 13862	-
# C2014	470pF 10% 2kV	4822 126 14237	-
# C2058	100pF 1% 50V 0603	2238 867 18101	-
# C2061	100pF 1% 50V 0603	2238 867 18101	-
# C2062	100pF 1% 50V 0603	2238 867 18101	-
# C2300, 01, 02	.47 10% 275V	2222 338 22474	-
# C2307	.022 10% 25V 0603	2238 916 15641	-
# C2B30	.22 20% 275VAC	2222 339 22224	-
# C2B52	470pF 20% 250V	2022 554 04155	-
# F1B32	Fuse	2422 086 00717	1.6A 250V
# F1B33	Fuse	2422 086 00797	2.5A 125V
# F1B50	Fuse	2422 086 00791	3A 125V
# F1314	Fuse	-	5A
L5005, 07	Bead 50 @ 100MHz	4822 526 10704	-
L5009, 10	Bead 80 @ 100MHz	4822 517 11411	-
L5012, 13	Bead 50 @ 100MHz	4822 526 10704	-
L5015, 16	Bead 80 @ 100MHz	4822 517 11411	-
L5017	Bead 50 @ 100MHz	4822 526 10704	-
L5021, 22, 25, 26	Bead 80 @ 100MHz	4822 517 11411	-
L5028, 29	3.3μH 20%	2422 536 01194	-
L5030	Bead 80 @ 100MHz	4822 517 11411	-
# L5305, 06	Filter	2422 549 43563	DMF3520
L5308	Bead 50 @ 100MHz	4822 526 10704	-
L5401	40μH BC15605-00	2422 536 01605	-
# L5B00	Mains Filter	2422 549 01459	-
P1	AC Power	2422 070 98208	Polarized
R3B38 Thru			
R3B42	390 1% 0402	3198 031 03910	-
R3B49	18 1% 0402	2322 706 71809	-
R3B50	68 1% 0402	2322 706 76809	-
R3B54	330 1% 0402	2322 706 73301	-
R3B73, 74	1000 1% 0402	2322 706 71002	-
R3002	15K 1% 0603	5322 117 13033	-
R3021	100 1% 0805	4822 117 11373	-
R3024	18K 1% 0.6W	4822 050 21803	-
R3027	100K 1% 0603	4822 117 13632	-
R3038	4700 1% 0.6W	4822 050 24702	-
R3045, 46	100 1% 0805	4822 117 11373	-
R3049	100K 1% 0603	4822 117 13632	-
R3059	100K 1% 0603	5322 117 13019	-
R3080 Thru			
R3084	5600 1% 0.6W	4822 050 25602	-
R3087, 88	5600 1% 0.6W	4822 050 25602	-
R3309	1M 1% 0603	4822 053 20105	-
R3311	100K 1% 0603	4822 117 13632	-
R9407	100K 1% 0603	4822 117 13632	-
# RY1350	Relay	2422 132 07411	Power
SG1302, 03	Surge protect	4822 252 60151	-
SG1B30, 31	Surge protect	4822 252 60151	-
SP1	Speaker	3139 128 78511	8 Ohms, 20W, Left
SP2	Speaker	3139 128 78251	8 Ohms, 20W, Right
# T5001	S13932-04Y	2422 531 02444	-
T5002	2652.0026DY	2422 531 00164	-
# T5011	2652.0026DY	2422 531 00164	-
# T5B01	BS28603-00	2422 531 00154	-
1T04	Tuner	3112 297 15361	TD1736F/FHFXP
VR3300	VDR	2122 550 00158	1mA 612V
	Ambilight Mod. (1)	3139 268 07132	6-LED (2 used) Left & Right side mounting
	Fuse Holder	4822 265 11253	2 used
	Panel	9322 252 09682	LC420WU2-SLA2
	PC Board (1)	3104 328 51781	AL (for Ambi Light Units)
	PC Board	3139 268 09841	IR/LED
	PC Board	3104 328 48911	Power supply (Display)
	PC Board	3139 268 05091	Side AV
	PC Board	3104 328 52301	Small Signal (SSB)
	PC Board	3139 268 05921	Key
	Transmitter	-	Remote

Use Lead Free Solder
For SAFETY use only equivalent replacement part.
(1)Used in model 42PFL7432D/37 only.

Important Parts Information

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