

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.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

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.

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

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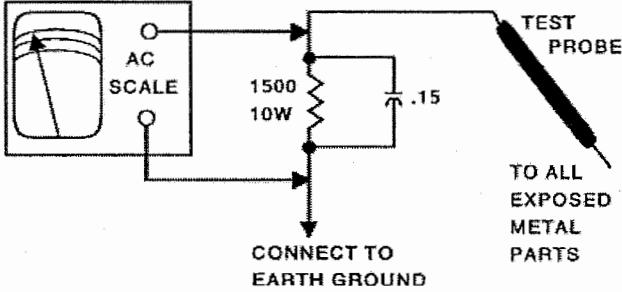
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



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GOLD

Technical Service Data

PANASONIC

Models PT-61G42CV/LV/PV/TV/V/VV/XV (Chassis AEDP811)

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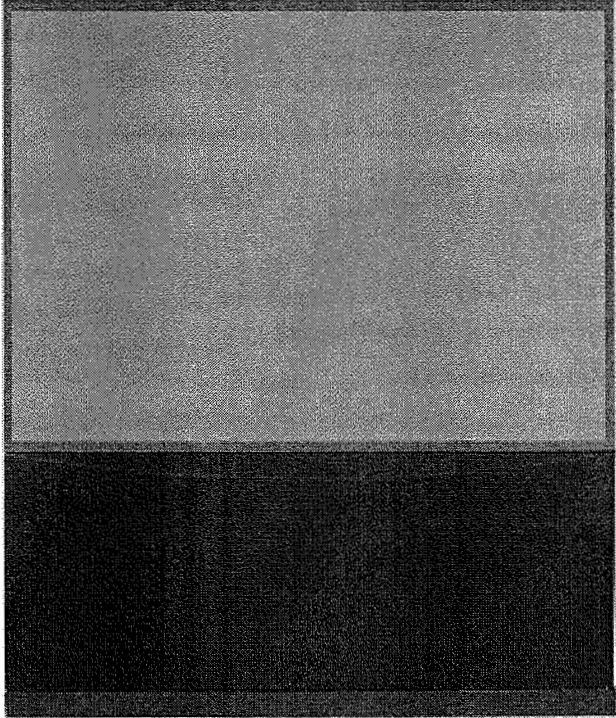
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SET 5061

MODELS PT-61G42CV/LV/PV/TV/V/VV/XV (CHASSIS AEDP811)

PANASONIC

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

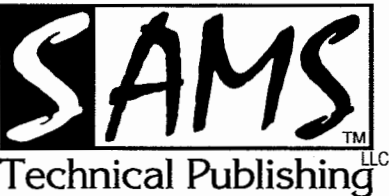


Representative Model
Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
PT-51G41V	AEDP811
PT-51G42CV/LV/PV/TV/V/VV/XV	AEDP811



SEPTEMBER 2005 SET 5061

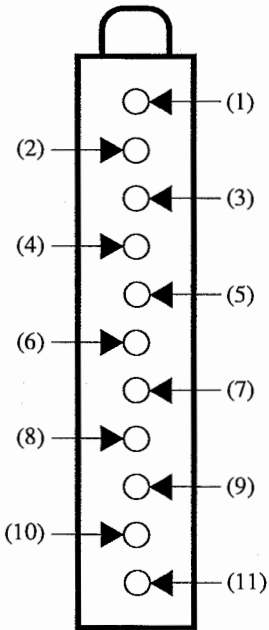
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	4.5V	5.4V	4.5V
(2) TU	1.0V	4.2V	4.5V
(3) ADD	0V	0V	0V
(4) SCL	3.4V	3.4V	3.4V
(5) SDA	3.5V	3.5V	3.5V
(6) BM	8.8V	8.8V	8.8V
(7) BPL	5.0V	5.0V	5.0V
(8) NC	0V	0V	0V
(9) BTL	30.0V	30.0V	30.0V
(10) NC	0V	0V	0V
(11) IF1	0V	0V	0V

NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

TUNER TERMINAL GUIDE



MISCELLANEOUS ADJUSTMENTS continued

SUB ADJUSTMENTS

Write down original on-set values in detail before making any adjustments in case a misadjustment occurs. Press channel up or down buttons on remote to select any of adjustment addresses. Press volume up or down buttons on remote to change level of adjustment. Enter Serviceman Mode and select Sub Adjustments.

Sub Adjustments Chart

Ajustment	Range	Default Level
Sub Color (B0)	0 ~ 63	33
Sub Tint (B1)	0 ~ 63	33
Sub Brightness (B2)	0 ~ 255	80
Sub Contrast (B3)	0 ~ 63	34
Sub ETC1 (B4)	0 ~ 7	5
Video Adjust (B5)	0 ~ 15	8
Audio Adjust (B6)	0 ~ 31	16

Sub Brightness (B2)

The sub brightness adjustment must be made by connecting a jumper from pin 28 of IC101 to ground. Tune in a pattern with NTSC pattern generator. Set Red Cutoff (C0) to 0 128, set Green Cutoff (C1) to 64, and set Blue Cutoff (C2) to 0 128. Connect an oscilloscope to pin 6 of IC3301 and ground. Adjust Sub Brightness (B2) for 3.0Vp-p ±.01Vp-p from ground to black level.

Sub Contrast (B3)

Tune in a crosshatch pattern with NTSC pattern generator. Confirm that Red Cutoff (C0) and Blue Cutoff (C2) are at 0 – 128. Connect an oscilloscope to pin 6 of IC3301 and ground. Adjust Sub Contrast (B3) for 2.6Vp-p from the horizontal line to black.

RED, GREEN & BLUE SCREEN CUTOFF

With no input signal, observe the green CRT and adjust the green screen control for minimum noise. Adjust the noise level for the red CRT and the blue CRT to match the noise level in the Green CRT.

CUT-OFF ADJUSTMENTS

Follow same procedure used for Sub Adjustments. Select Cut-Off Adjustments.

Cut-Off Adjustments Chart

Ajustment	Range	Default Level
Red Cutoff (C0)	0, 1 0 ~ 255	2 - 128
Green Cutoff (C1)	0 ~ 255	64
Blue Cutoff (C2)	0, 1 0 ~ 255	0, 128
Red Drive (C3)	0 ~ 127	64
Blue Drive (C4)	0 ~ 127	64
YNR Switch (C5)	0, 1	0
AFT (C6)	0, 1 0 ~ 255	1-120
RF AGC (C7)	0 ~ 127	64
YNR (C8)	0 ~ 7	0
Horizontal Centering (C9)	0 ~ 31	16
Beam Limit (CA)	0 ~ 7	5
Y Delay (CB)	0 ~ 2	0
B.P.F. SW (CC)	0, 1	1

Color Temperature (C0, C1, C2, C3, C4)

Observe low and high brightness areas of a B/W picture for proper tracking. Enter Serviceman Mode and select Cut-Off adjustments. Set the Red Cutoff (C0), Green Cutoff (C1), and Blue Cutoff (C2) for a gray picture. Set the Red Drive (C3) and the Blue Drive (C4) for correct white areas.

Horizontal Centering (C9)

Adjust for normal picture, set the receiver to Serviceman Mode. Apply a monoscope pattern. Cover both red and blue lenses so only the green lens is visible. With a monoscope pattern, adjust horizontal size to minimum.

Dynamic Focus Adjustment

Focus adjustment should only be performed after the set has been on for 1 hour with an oscilloscope using a 100 to 1 probe, and using a pattern generator apply a monoscope pattern. Adjust the red, blue, and green focus controls on the focus block for best focus.

Focus Electrical Adjustment

Cover both red and blue lenses leaving only the green lens visible. The controls are located on the front. Adjust the green focus control for the best overall picture. Repeat the red and blue for best focus at bottom left corner of the screen.

MTS ADJUSTMENTS

Enter Serviceman Mode and select MTS adjustments.

MTS Adjustments Chart

Ajustment	Range	Default Level
M0 Input Level	0 ~ 63	31
M1 Stereo PLL/VCO	0 ~ 63	31
M2 Filter	0 ~ 63	31
M3 Low Separation	0 ~ 63	31
M4 High Separation	0 ~ 63	31

FACTORY ADJUSTMENTS

Factory Adjustments Chart

Ajustment	Range	Default Level
S0 PIP Color	0 ~ 127	80
S1 PIP Contrast	0 ~ 127	52
S2 Upper (1/9)	0 ~ 255	24
S3 Lower (1/9)	0 ~ 255	149
S4 Left (1/9)	0 ~ 255	11
S5 Right (1/9)	0 ~ 255	107
S6 Upper (1/16)	0 ~ 255	24
S7 Lower (1/16)	0 ~ 255	166
S8 Left (1/16)	0 ~ 255	11
S9 Right (1/16)	0 ~ 255	122
SA (Not Applicable)	-	-
SB Clock Adjust	0 ~ 255	128
SC PIP Tint	0 ~ 63	48

Factory Adjustments Chart

Ajustment	Range	Default Level
V0 Digital Convergence	-	-
V1 Digital Convergence	-	-
V2 Blue Gamma	0 ~ 255	15
V3 Vertical Size	0 ~ 255	128
V4 Horizontal Size	0 ~ 255	128
V5 Sub Sharpness	0 ~ 20	10

MISCELLANEOUS ADJUSTMENTS

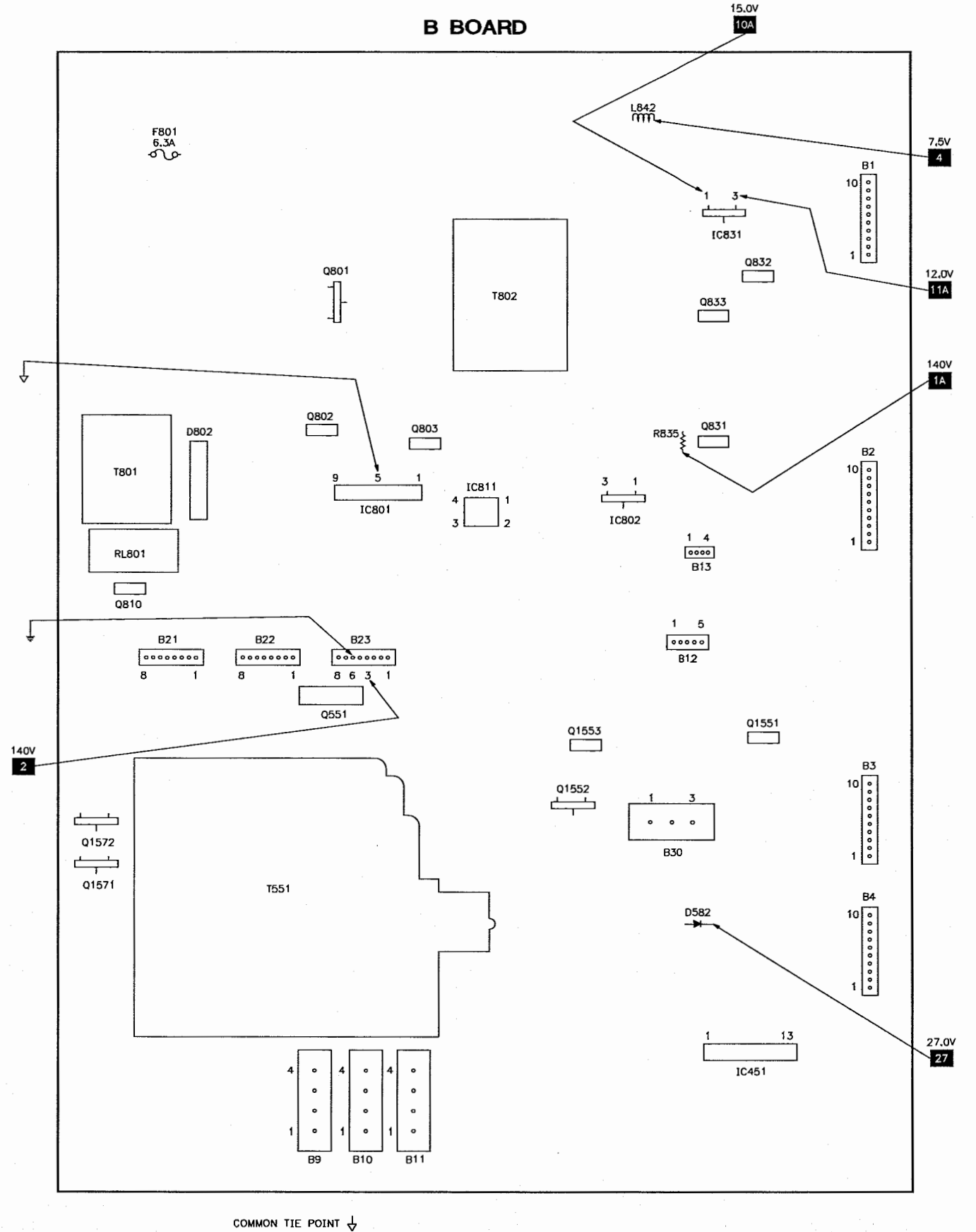
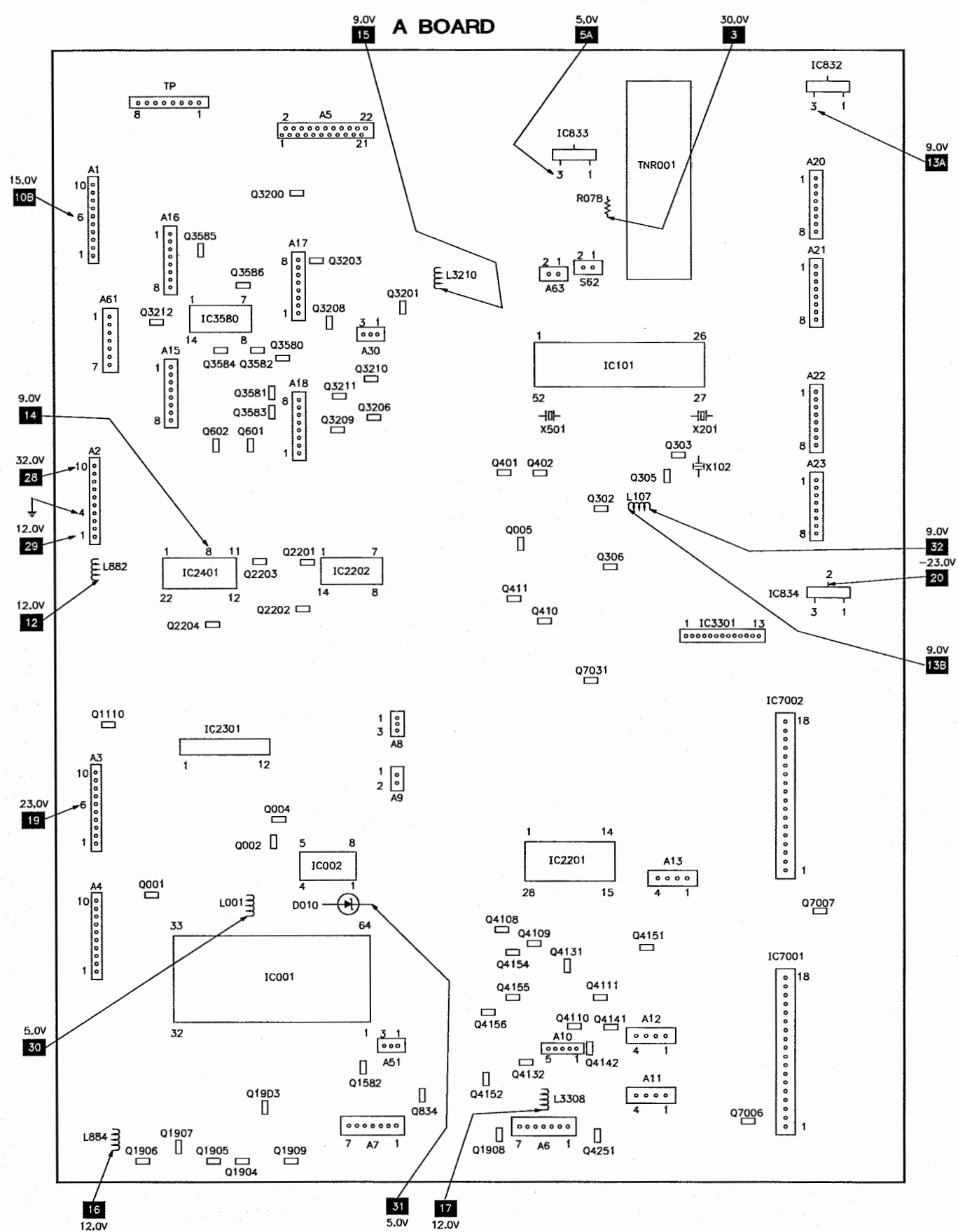
ENTERING SERVICEMAN MODE

Turn on receiver using the remote control. Select set-up icon and select the cable mode. Select the time icon and set the sleep timer to 30 minutes. Press the action button two times to cancel icon menus. Tune to channel 124 and adjust the volume to minimum. On the receiver press the volume down button and a red CHK appears in the upper corner of screen.

EXITING SERVICEMAN MODE

Always exit Serviceman Mode when finished making adjustments. Press action and power buttons on receiver control panel simultaneously for approximately 2 seconds to exit serviceman mode. The receiver will momentarily shut off and then come back on tuned to channel 3 with a preset level of sound.

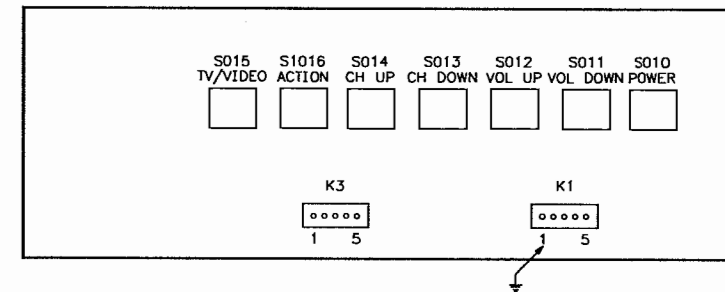
PLACEMENT CHART



COMMON TIE POINT ↓

PANASONIC
MODELS PT-61G42CV/LV/PVT/VV/VV/XV (CHASSIS AEDP811)

K BOARD



- **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.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- 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.

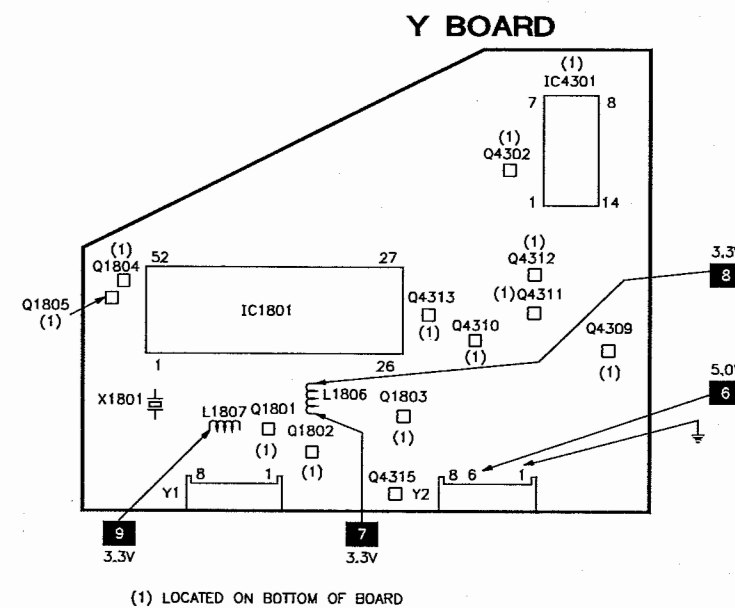
Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

Participating Vendors

Participating Vendors

- NTE Electronics, Inc. (NTE)
- Sencore, Inc.

Y BOARD

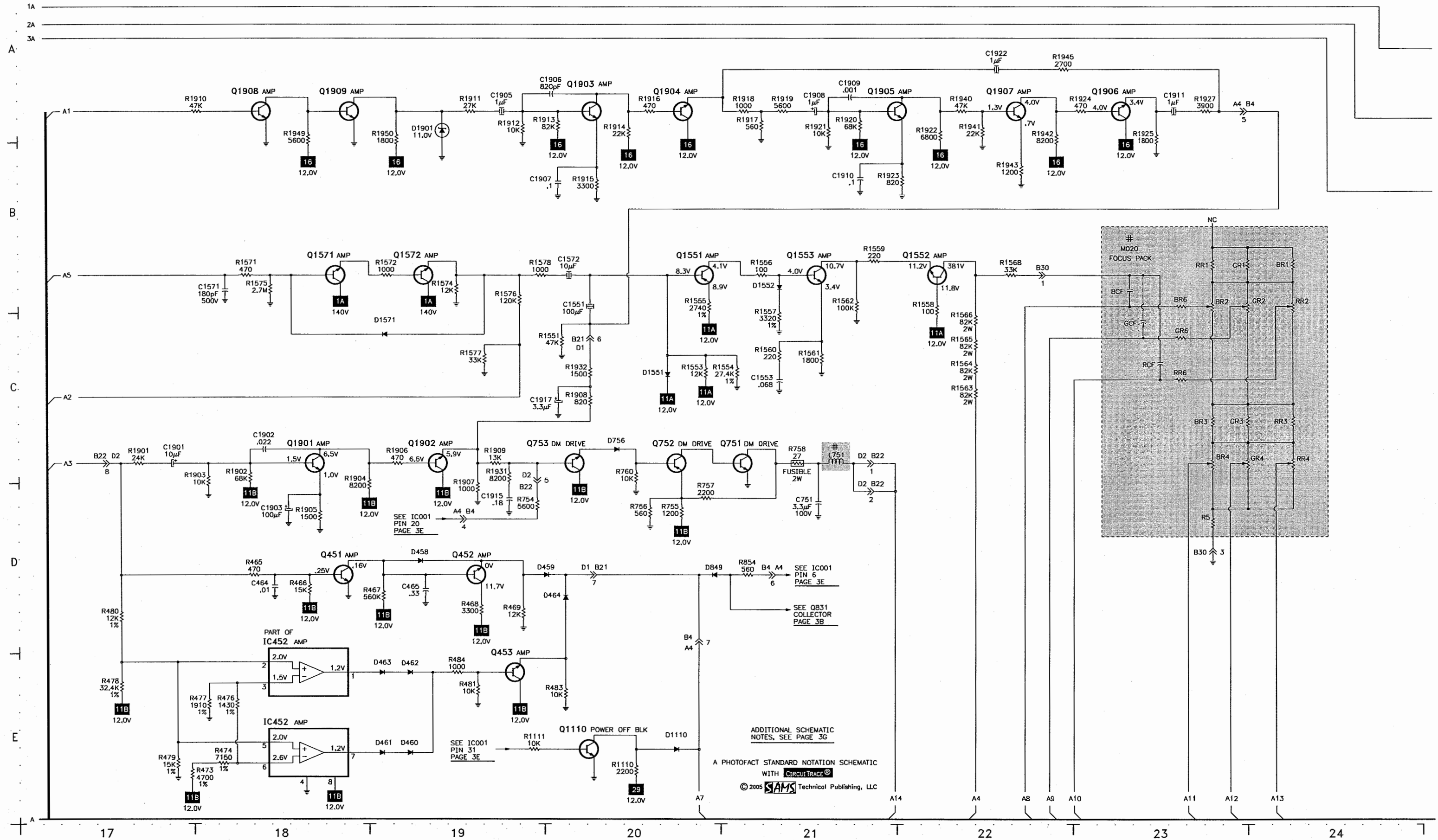


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TELEVISION SCHEMATIC continued

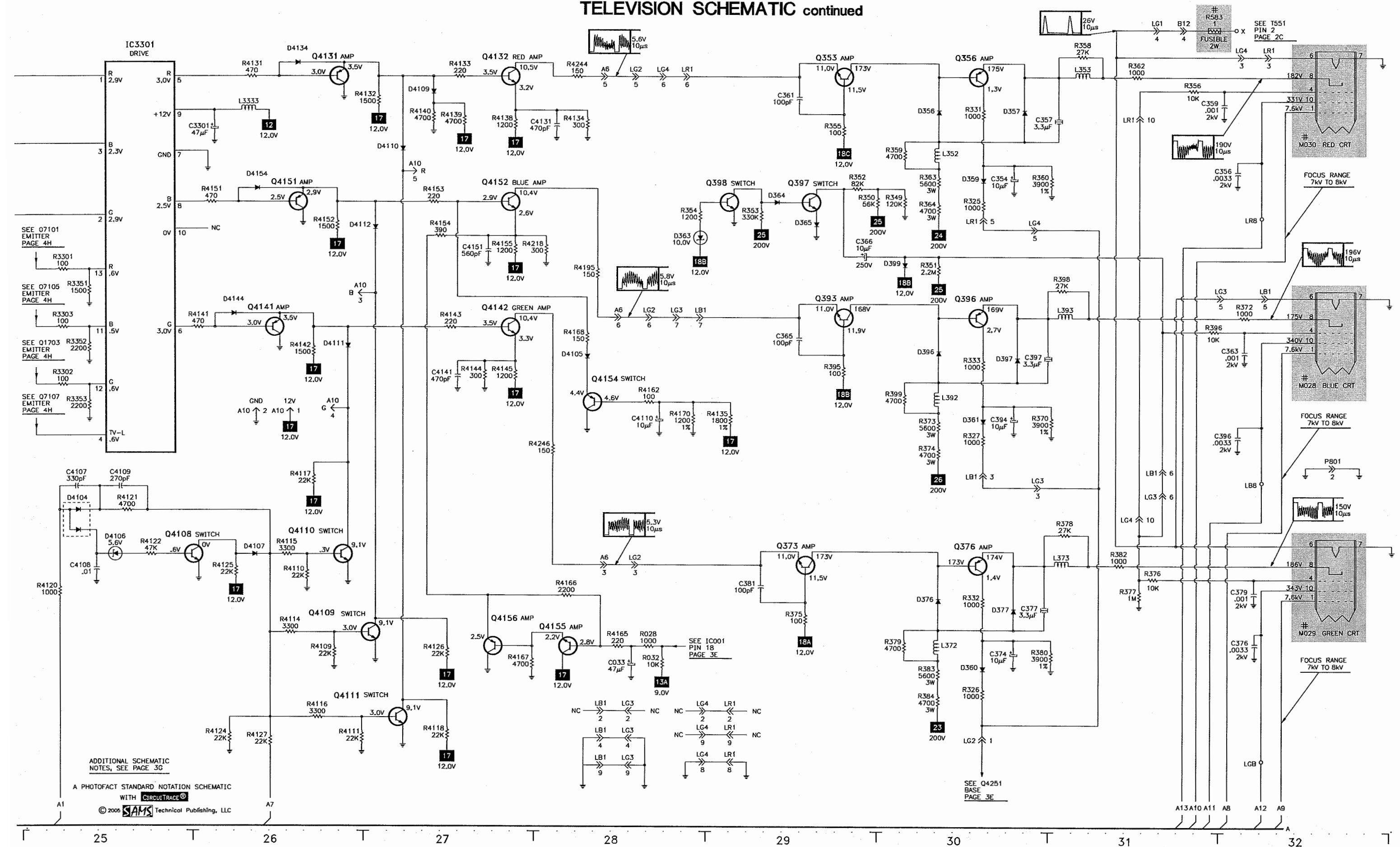
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TELEVISION SCHEMATIC continued

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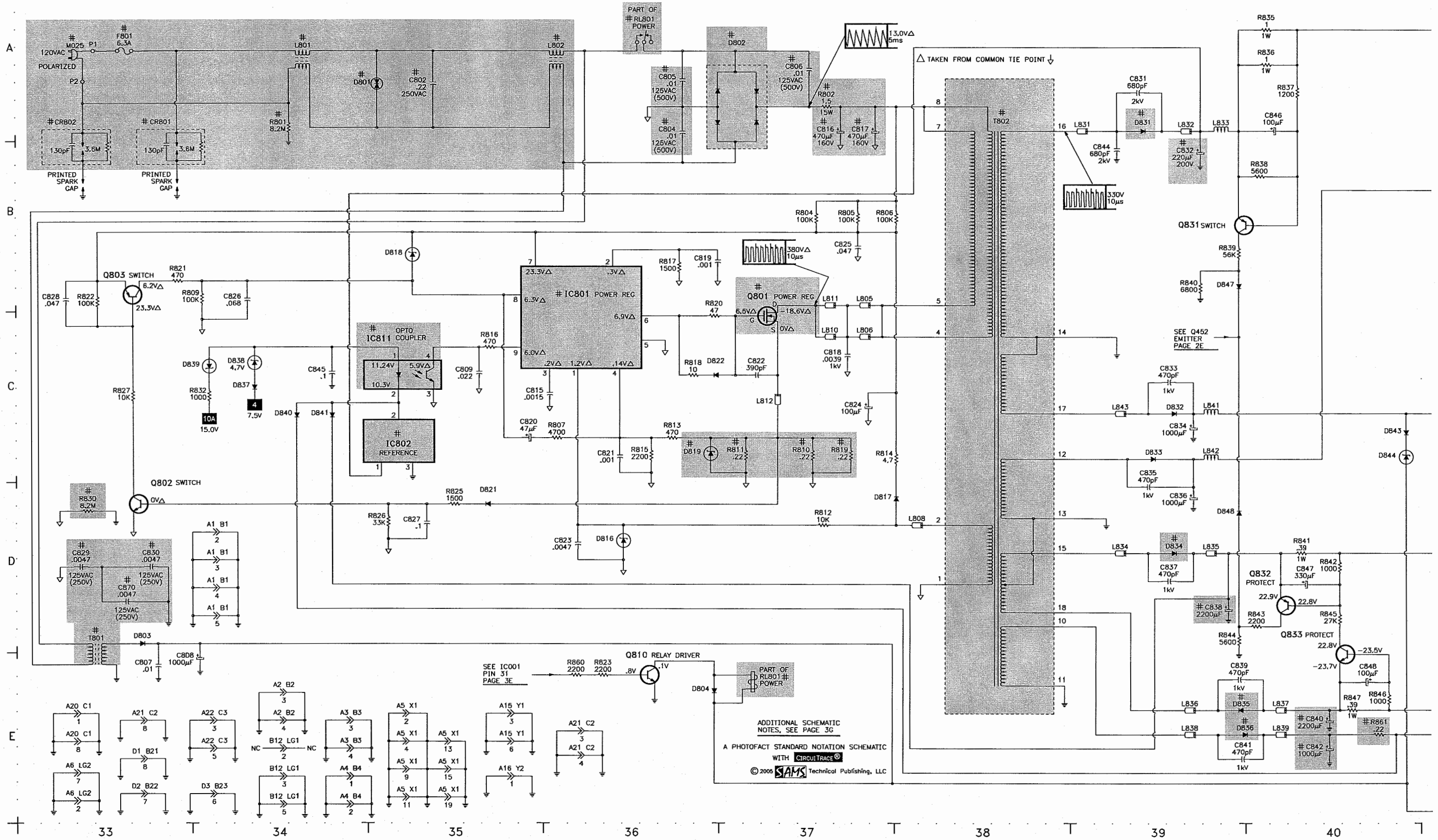
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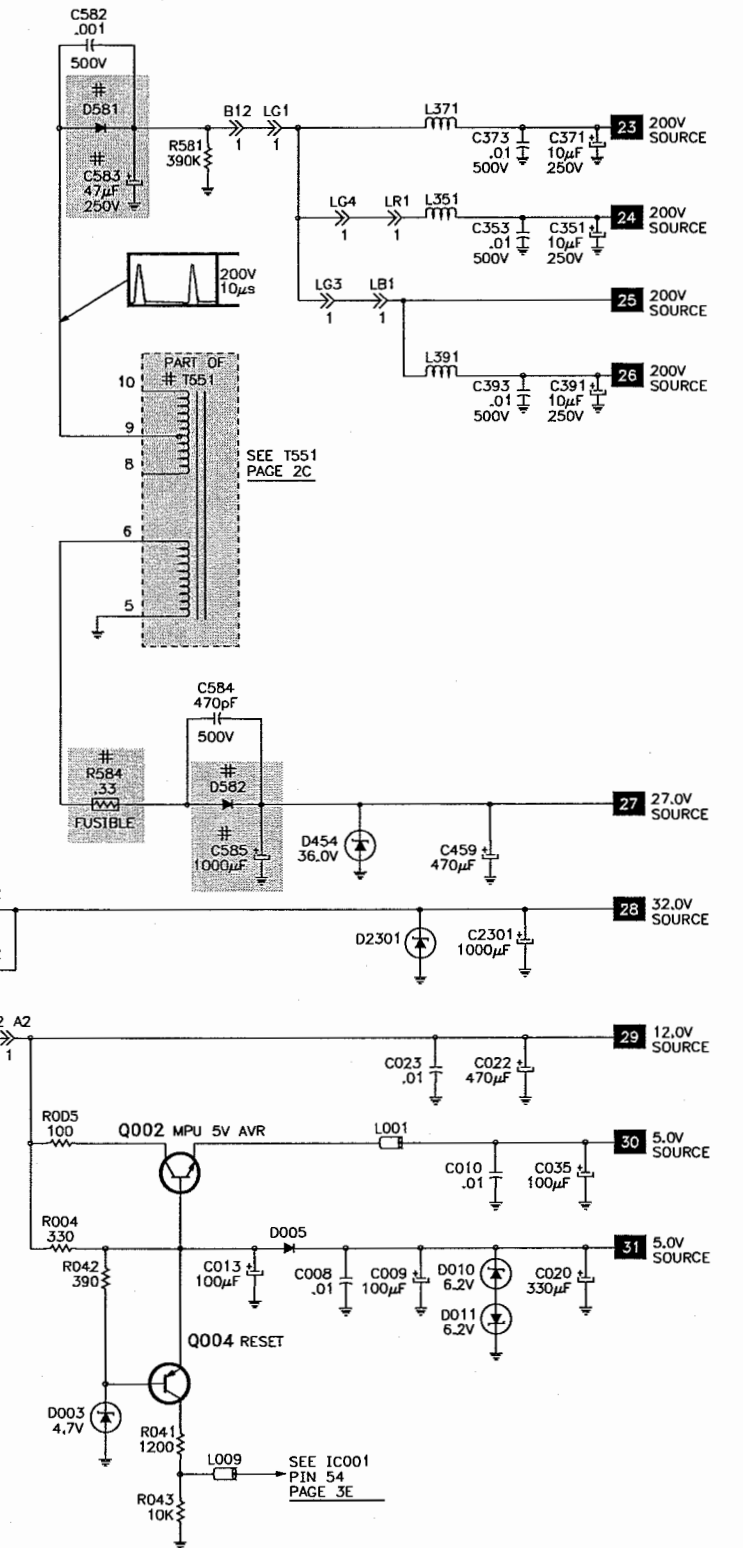
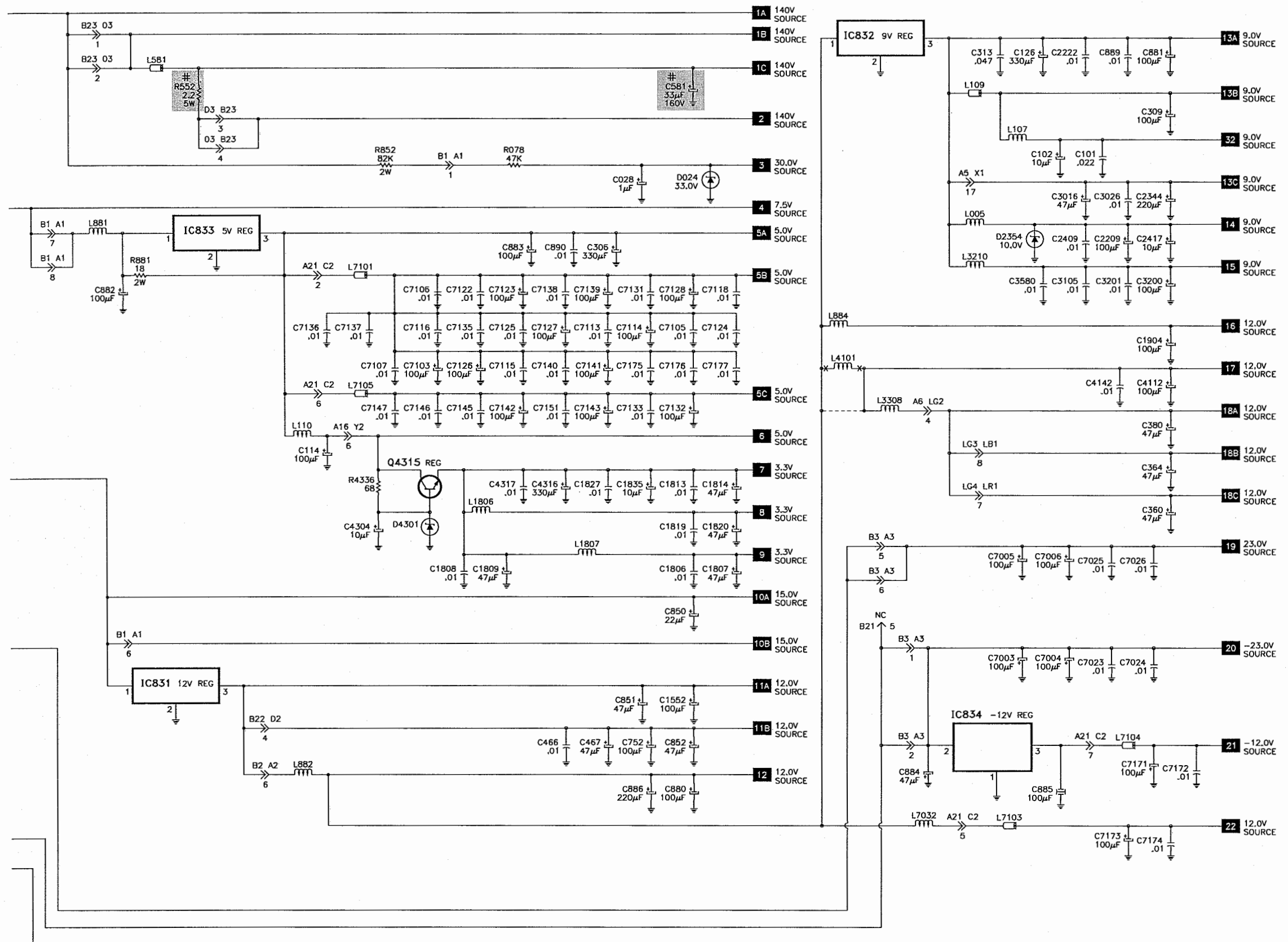
MODELS PT-61G42CV/LV/PV/TV/VW/VXV (CHASSIS AEDP811)

A

POWER SUPPLY SCHEMATIC

E





ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3G

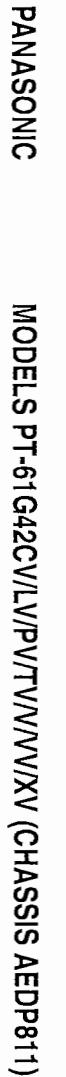
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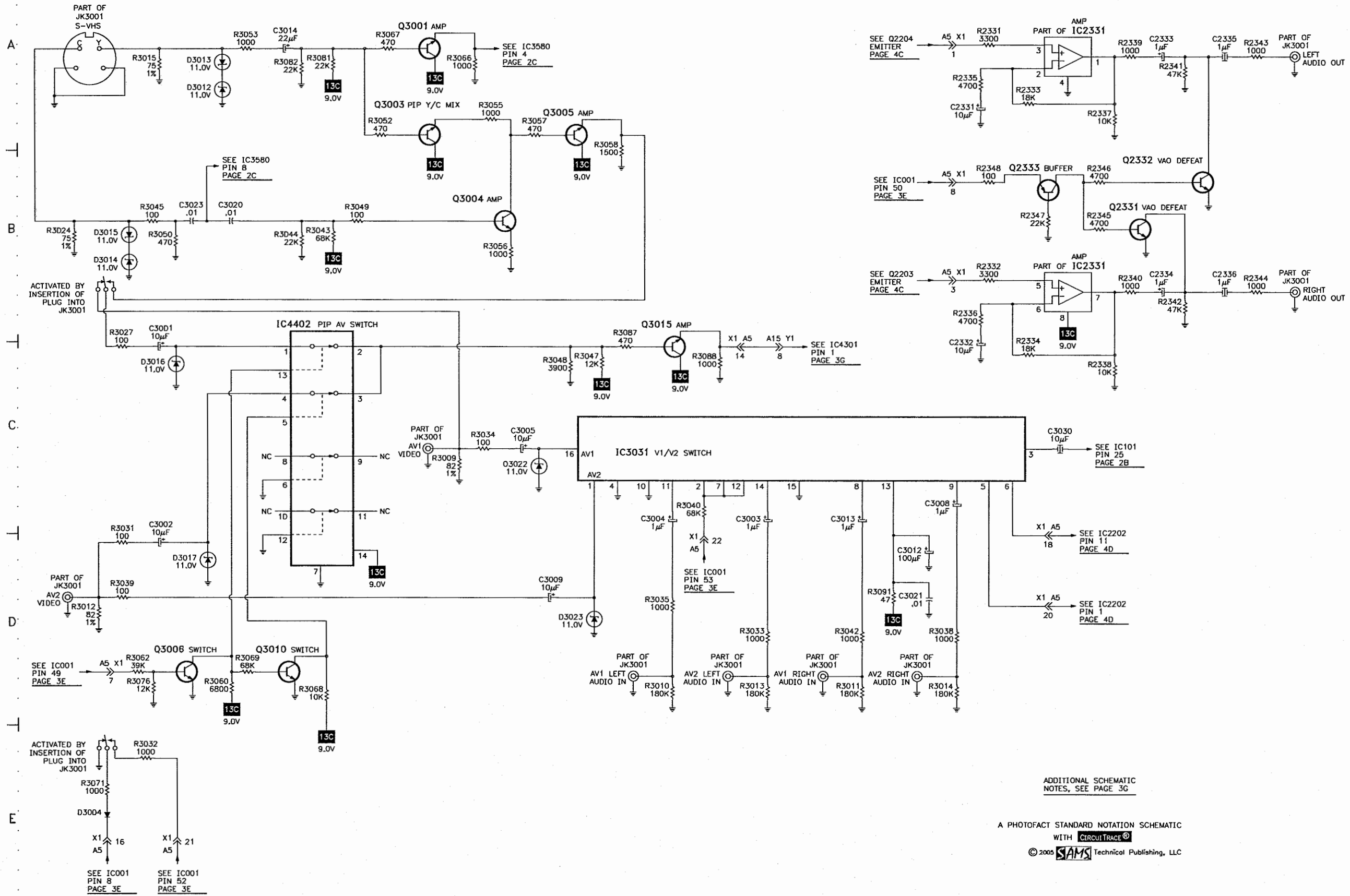
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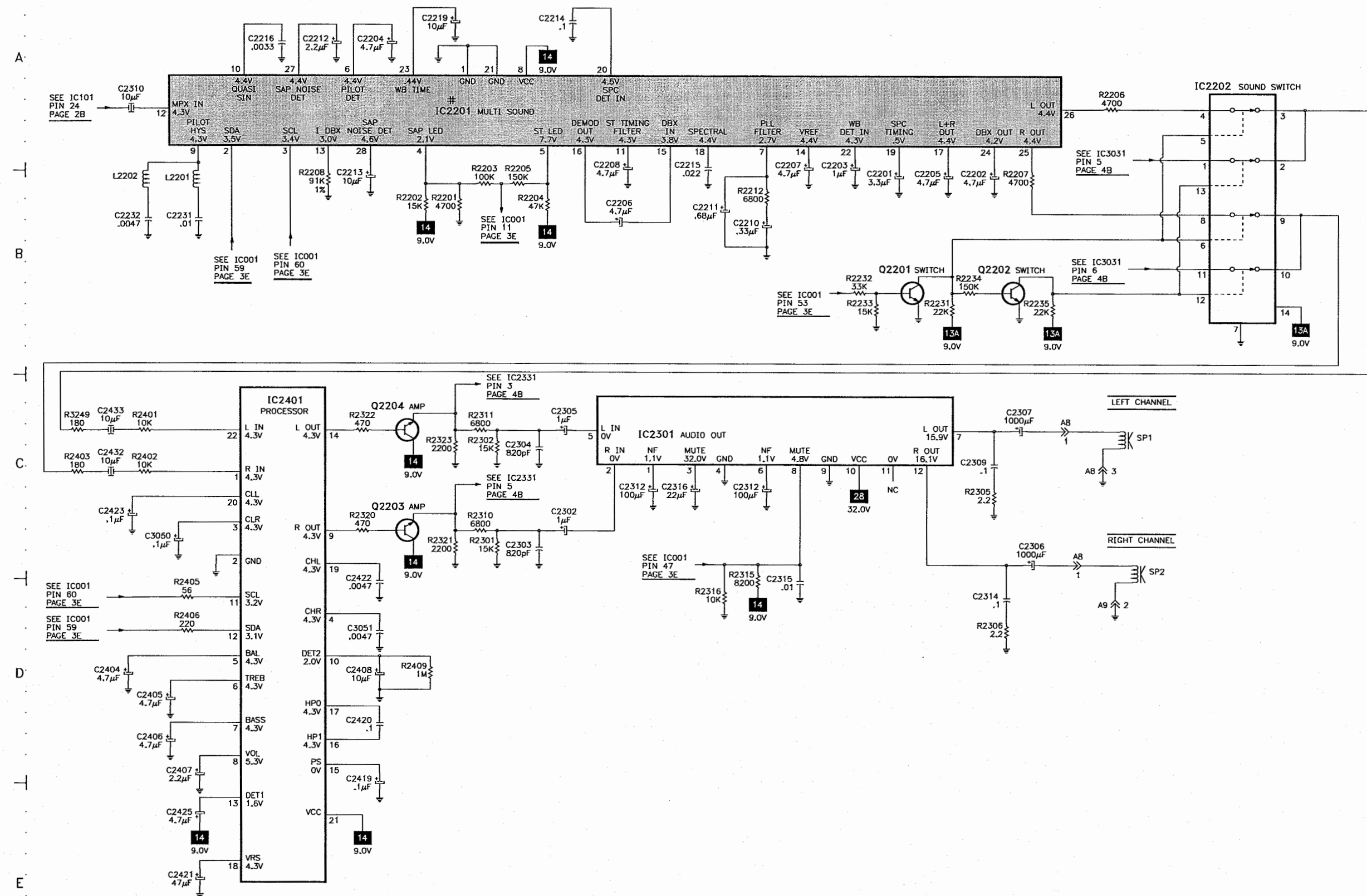
A/V SWITCHING SCHEMATIC

B



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AUDIO SCHEMATIC



ADDITIONAL SCHEMATIC
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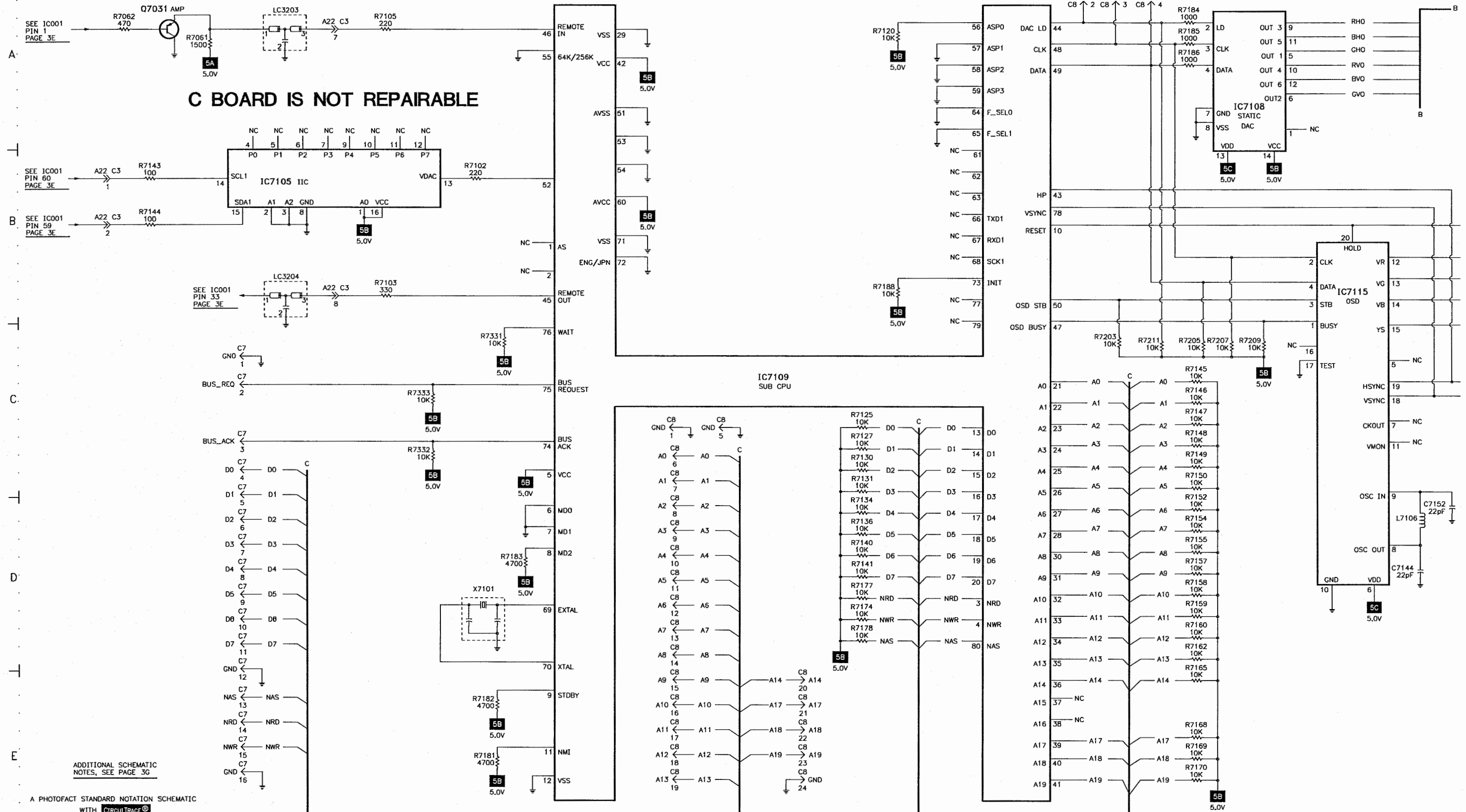
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CONVERGENCE SCHEMATIC

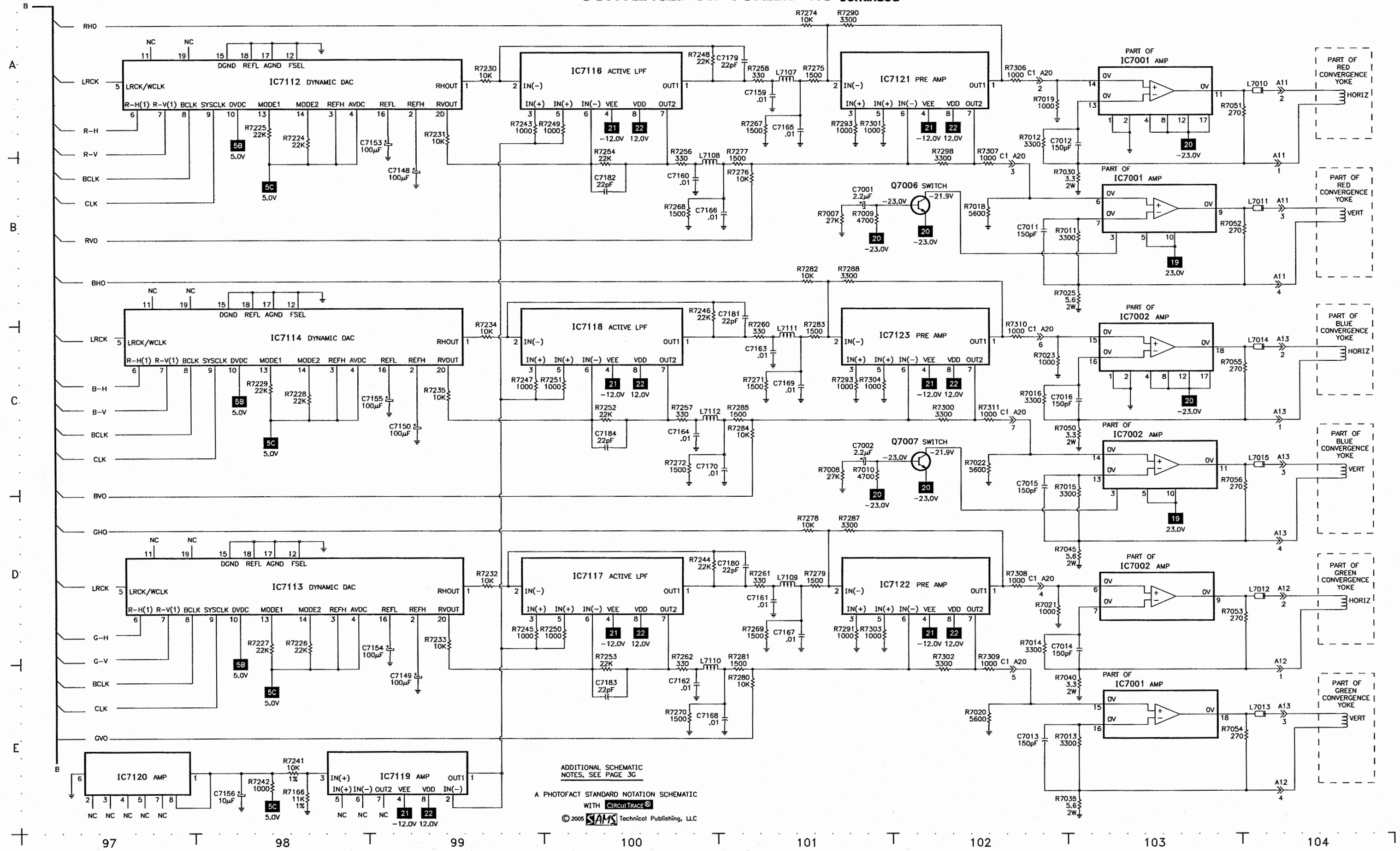
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MODELS PT-61G42CV/LV/PV/TV/VV/XV (CHASSIS AEDP811)



CONVERGENCE SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 3G

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SCHEMATIC COMPONENT LOCATION GUIDE

C004	C53	C451	D5	C845	C34	C2206	B75	C4107	D25	C7162	E100	D821	D35	IC3301	A25	L841	C39	Q801	C37	Q7101	A94	R108	B3	R473	E17	R840	B39	R1905	D18	R3009	C67	R3578	A9	R7007	B101	R7196	D96	R7287	D101
C006	D51	C452	D6	C846	B40	C2207	B76	C4108	D25	C7163	C101	D822	C36	IC3580	B10	L842	C39	Q802	D33	Q7103	B95	R111	B1	R474	E18	R841	D40	R1906	C19	R3010	C68	R3579	A10	R7008	B101	R7197	D96	R7288	B101
C008	D48	C453	D7	C847	D40	C2208	B75	C4109	D25	C7164	C100	D831	B39	IC4301	A58	L843	C39	Q803	C33	Q7105	A95	R152	A2	R476	E18	R842	D40	R1907	D19	R3011	D69	R3580	C12	R7009	B101	R7198	D96	R7289	B95
C009	D48	C454	E7	C848	E40	C2209	B46	C4110	C28	C7165	A101	D832	C39	IC4301	A58	L881	B41	Q810	E36	Q7107	B95	R153	A2	R477	E18	R843	D39	R1908	C20	R3012	D65	R3581	C12	R7010	C101	R7199	D96	R7290	A101
C010	D48	C455	D5	C849	D44	C2210	B76	C4112	C46	C7166	B100	D833	C39	IC4402	C66	L882	E42	Q831	B39	R002	B51	R154	B2	R478	E17	R844	D39	R1909	C19	R3013	D68	R3582	C12	R7011	B103	R7200	D96	R7291	D101
C013	D47	C456	D8	C850	D44	C2211	B76	C4131	A28	C7167	D101	D834	D39	IC7001	A103	L883	B6	Q832	D40	R003	D54	R201	B4	R479	E17	R845	D40	R1910	A17	R3014	D69	R3583	C12	R7012	B102	R7201	D96	R7293	A101
C014	E2	C457	E7	C851	D43	C2212	A74	C4141	C27	C7168	E100	D835	E39	IC7001	B103	L884	B44	Q833	E40	R004	D47	R303	C13	R480	D17	R846	E40	R1911	A19	R3015	A65	R3584	C13	R7013	E103	R7202	E96	R7293	C101
C017	C51	C458	E7	C852	D44	C2213	B74	C4142	C46	C7169	C101	D836	E39	IC7001	E103	L1109	B50	Q834	B50	R005	D47	R304	C14	R481	E19	R847	E40	R1912	B19	R3024	B65	R3585	C13	R7014	D102	R7203	C87	R7295	A94
C018	C51	C459	C48	C870	D33	C2214	A75	C4151	B27	C7170	C100	D837	C34	IC7002	C103	L1110	B50	Q1110	E20	R006	D54	R305	A5	R483	E20	R848	C50	R1913	B20	R3027	C65	R3586	C11	R7015	D103	R7204	E96	R7296	A95
C019	D53	C460	E7	C880	E44	C2215	B76	C4251	D50	C7171	E46	D838	C34	IC7002	C103	L1801	E61	Q1551	B20	R007	D51	R306	A5	R484	E19	R849	C49	R1914	B20	R3031	D65	R3587	C12	R7016	C102	R7205	C87	R7298	B102
C020	D48	C461	D7	C881	A46	C2216	A74	C4303	C60	C7172	E46	D839	C34	IC7002	D103	L1803	E61	Q1552	B22	R014	A53	R308	D14	R488	D6	R850	C49	R1915	B20	R3032	E65	R3588	C12	R7018	B102	R7206	E96	R7299	B94
C021	E2	C463	D5	C882	B41	C2219	A75	C4304	C42	C7173	E46	D840	C34	IC7002	B93	L1804	E63	Q1553	B21	R015	D15	R309	B13	R489	D4	R851	B49	R1916	A20	R3033	D68	R3593	C12	R7019	A102	R7207	C87	R7300	C102
C022	D48	C464	D18	C883	B43	C2222	A45	C4313	A60	C7174	E46	D841	C34	IC7103	B90	L1806	C43	Q1571	B18	R016	B55	R310	B13	R501	E1	R852	B42	R1917	B21	R3034	C67	R3594	C12	R7020	E102	R7208	E96	R7301	A101
C023	D48	C465	D19	C884	E45	C2231	B73	C4314	B60	C7175	C43	D843	C40	IC7104	A93	L1807	D43	Q1572	B19	R017	A54	R313	C5	R502	E1	R854	D21	R1918	A21	R3035	D68	R3595	C11	R7021	D102	R7209	C87	R7302	E102
C026	C56	C466	D43	C885	E45	C2232	B73	C4315	B61	C7176	C44	D844	C40	IC7105	B82	L1808	D60	Q1581	D14	R019	B50	R314	C5	R503	E1	R860	E36	R1919	A21	R3038	D69	R3596	C11	R7022	C102	R7210	E96	R7303	D101
C027	C56	C467	D43	C886	E43	C2301	C48	C4316	C43	C7177	C44	D845	C49	IC7107	C92	L2201	B73	Q1582	D16	R020	D53	R317	C13	R504	E3	R861	E40	R1920	B21	R3039	D65	R3597	C11	R7023	C102	R7211	C87	R7304	C101
C028	B43	C502	D1	C888	B6	C2302	C75	C4317	C43	C7178	B94	D846	B50	IC7108	A87	L2202	B73	Q1583	D15	R021	A55	R321	B5	R506	E1	R881	B41	R1921	B21	R3040	C68	R4109	D26	R7025	B103	R7212	E96	R7305	B95
C033	E28	C503	D1	C889	A46	C2303	C75	C4319	B62	C7179	A101	D847	B39	IC7109	C85	L3202	C7	Q1801	D61	R022	A55	R322	B6	R507	E1	R1023	D51	R1922	B22	R3042	D69	R4110	D26	R7030	B103	R7213	C96	R7306	A102
C034	D15	C505	D2	C890	B43	C2304	C75	C4320	B61	C7180	D101	D848	D39	IC7110	D92	L3204	B8	Q1802	D61	R023	D14	R325	B30	R508	E1	R1029	C2	R1923	B21	R3043	B66	R4111	E27	R7035	E103	R7214	C96	R7307	B102
C035	D48	C506	D2	C1551	C20	C2305	C75	C7001	B101	C7181	C101	D849	D20	IC7111	D95	L3206	C9	Q1803	C61	R025	E2	R326	E30	R509	D3	R1101	E20	R1925	B23	R3045	B65	R4115	D26	R7045	D103	R7216	C96	R7309	E102
C036	E2	C521	E4	C1552	D44	C2306	D77	C7002	C101	C7182	B100	D1110	E20	IC7112	A98	L3210	B45	Q1804	A63	R026	E2	R327	C30	R521	E4	R1111	E19	R1927	A23	R3047	C67	R4116	E26	R7050	C103	R7217	C96	R7310	C102
C037	B53	C522	E4	C1553	C21	C2307	C77	C7003	D45	C7183	E100	D1551	C20	IC7113	D98	L3308	C45	Q1805	B63	R028	D28	R331	A30	R522	E4	R1111	E19	R1927	A23	R3047	C67	R4116	E26	R7050	C103	R7217	C96	R7311	C102
C038	B53	C551	E8	C1571	B18	C2309	C77	C7004	D45	C7184	C100	D1552	B21	IC7114	C98	L3333	A26	Q1901	C18	R029	E2	R332	D30	R523	E3	R1241	D90	R1931	D19	R3048	C67	R4117	C26	R7051	A103	R7218	C96	R7312	C96
C045	B50	C552	E9	C1572	B20	C2310	A73	C7005	D45	C7193	B92	D1571	C19	IC7115	B88	L4101	C44	Q1902	C19	R030	E16	R333	C30	R524	E3	R1243	E51	R1932	C20	R3049	B66	R4118	E27	R7052	B103	R7219	C96	R7313	C96
C046	D53	C553	E9	C1582	E13	C2312	C75	C7006	D45	C7194	A93	D1581	D13	IC7116	A100	L4301	A60	Q1903	A20	R031	E2	R349	B30	R538	D2	R1551	C20	R1940	A22	R3050	B65	R4119	C16	R7053	D103	R7220	C93	R7327	A95
C047	C53	C554	E9	C1583	D13	C2312	C76	C7011	B102	CR801	B33	D1583	E14	IC7117	D100	L7010	A103	Q1904	A20	R032	E28	R350	B29	R540	E3	R1553	C20	R1941	B22	R3052	B66	R4120	D25	R7054	E103	R7221	B96	R7328	B95
C048	C53	C555	E8	C1584	E13	C2314	D77	C7012	B103	CR802	B33	D1584	E14	IC7118	C100	L7011	B103	Q1905	A21	R033	D15	R351	B30	R543	D90	R1554	C21	R1942	B22	R3053	A66	R4121	D25	R7055	C103	R7222	B94	R7329	A96
C049	C53	C556	E9	C1585	E15	C2315	D76	C7013	E102	D003	E47	D1585	E14	IC7119	E99	L7012	D103	Q1906	A23	R034	D15	R352	B29	R552	A41	R1555	C20	R1943	B22	R3055	A67	R4122	D25	R7056	C103	R7223	B96	R7330	B95
C051	A49	C557	E10	C1586	E15	C2316	C76	C7014	D103	D005	D47	D1901	B19	IC7120	E97	L7013	E103	Q1907	A22	R035	E50	R353	B29	R553	E11	R1556	B21	R1945	A22	R3056	B67	R4124	E26	R7061	A82	R7224	B98	R7331	C83
C052	A50	C558	E10	C1587	E15	C2331	A69	C7015	C102	D007	D53	D2301	C48	IC7121	A102	L7014	C103	Q1908	A18	R036	E50	R354	B28	R556	D11	R1557	C21	R1949	B18	R3057	B67	R4125	D26	R7062	A81	R7225	A98	R7332	C83
C101	B46	C559	E9	C1588	E16	C2332	C69	C7016	C103	D008	D15	D2354	B45	IC7122	D102	L7015	C103	Q1909	A18	R037	D53	R355	A29	R557	D11	R1558	C22	R1950	B19	R3058	B68	R4126	D27	R7102	B83	R7226	D98	R7333	C83
C102	B45	C560	E10	C1801	E61	C2333	A70	C7023	D46	D009	E2	D3001	C3	IC7123	C102	L7032	E45	Q2201	B77	R038	B51	R356	A31	R560	D13	R1559	B21	R2201	B75	R3060	D66	R4127	E26	R7103	B82	R7227	D98	R7334	B94
C103	C3	C561	E11	C1802	E61	C2334	B70	C7024	D46	D010	D48	D3004	E65	JK3001	A71	L7101	B42	Q2202	B77	R040	B51	R358	A31	R561	D13	R1560	C21	R2202	B74	R3062	D65	R4131	A26	R7104	C90	R7228	C98	RL801	A36
C105	C3	C564	D13	C1803	E62	C2335	A71	C7025	D46	D011	D48	D3012	A66	JK3001	B71	L7103	E45	Q2203	C74	R041	E47	R359	B30	R562	D13	R1561	C21	R2203	B75	R3066	A67	R4132	A27	R7105	A82	R7229	C98	RL801	E37
C106	C3	C565	D11	C1804	E62	C2336	B71	C7026	D46	D024	B44	D3013	A66	JK3001	C67	L7104	D46	Q2204	C74	R042	D47	R360	B30	R581	A47	R1562	C21	R2204	B75	R3067	A66	R4133	A27	R7106	C90	R7230	A99	RM002	A50
C107	C4	C581	A44	C1805	E62	C2344	B46	C7101	B92	D025	B51	D3014	B65	JK3001	D65	L7105	C42	Q2331	B70	R043	E47	R362	A31	R583	A31	R1563	C22	R2205	B75	R3068	D66	R4134	A28	R7120	A85	R7231	B99	S010	B50
C108	B2	C582	A47	C1806	D44	C2404	D73	C7102	B92	D030	E51	D3015	B65	JK3001	D68	L7106	D88	Q2332	B70	R044	C14	R363	B30	R584	C47	R1564	C22	R2206	A78	R3069	D66	R4135	C29	R7125	C85	R7232	D99	S011	B50
C109	B4	C583	A47	C1807	D44	C2405	D73	C7103	C42	D201	B5	D3016	C65	JK3001	D68	L7107	A101	Q2333	B70	R045	C51	R364	B30	R585	D10	R1565	C22	R2207	B77	R3071	E65	R4138	A27	R7126	B92	R7233	D99	S012	B50
C113	C1	C584	C47	C1808	D43	C2406	D73	C7104	C92	D356	A30	D3017	D65	JK3001	D69	L7108	B100	Q3001	A67	R046	C51	R370	C30</																

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.
D003	-	MA4047M	NTE5009A	D4109 Thru	-	MA151K	NTE593	Q1581	-	JC501PQ	NTE85
D005, 07, 08	-	MA151K	NTE593	D4112	-	MA151K	NTE593	Q1582	-	MSD601-RT1	NTE2408
D009	-	MA4043M	NTE5008A	D4134, 44, 54	-	MA3036H	-	Q1583	-	JC501PQ	NTE85
D010, 11	-	MA4062M	NTE5013T1	D4301	-	MN1873265T7H	-	Q1801, 02, 03	-	MSD601-RT1	NTE2408
D024	-	MA4330M	-	# IC001	-	24LC02BIP	-	Q1804, 05	-	MSB709-RT1	NTE2409
D025, 30	-	MA4051L	-	IC002	-	AN5165K	-	Q1901, 02	-	JC501PQ	NTE85
D201	-	MA4110M	NTE5020A	# IC101	-	LA7838	NTE7039	Q1903 Thru	-	-	-
D356	-	MA165	NTE519	# IC451	-	XRA15218N	NTE778S	Q1909	-	MSD601-RT1	NTE2408
D357	-	MA185	NTE552	IC452	-	AN8026	-	Q2201 Thru	-	-	-
D359, 60, 61	-	MA165	NTE519	# IC801	-	SE139NLF4	-	Q2204	-	MSD601-RT1	NTE2408
D363	-	MA4100M	NTE5019T1	# IC802	-	TLP621GR	-	Q2331, 32	-	JC501PQ	NTE85
D364	-	MA167	NTE519	# IC811	-	AN7812	NTE3098	Q2333	-	JA101PQ	NTE290A
D365	-	MA29T-ATA	-	IC831	-	AN7809	NTE966	Q3001	-	JC501PQ	NTE85
D376	-	MA165	NTE519	IC832	-	AN7805	NTE1910	Q3003 Thru	-	-	-
D377	-	MA185	NTE552	IC833	-	AN79M12	NTE960	Q3006	-	JC501PQ	NTE85
D396	-	MA165	NTE519	IC834	-	M65617SP	NTE967	Q3010, 15	-	JC501PQ	NTE85
D397	-	MA185	NTE552	IC1801	-	AN5819K	-	Q3200, 01	-	MSD601-RT1	NTE2408
D399	-	TVSRM1	NTE116	# IC2201	-	MC14066BCP	NTE4066B	Q3203, 06	-	MSD601-RT1	NTE2408
D451	-	ERA15-01	NTE116	IC2202	-	AN5275	-	Q3208	-	MSB709-RT1	NTE2409
D452, 53	-	MA2330-B	-	AN5275	-	XRA15218N	-	Q3209 Thru	-	-	-
D454	-	MA4360M	NTE5037A	IC2301	-	CXA2021S	NTE778S	Q3212	-	MSD601-RT1	NTE2408
D455, 56	-	MA4062L	NTE5012A	IC2331	-	M52055P	-	Q3580	-	MSB709-RT1	NTE2409
D457	-	MA4120M	NTE5021T1	IC2401	-	AN5862K	-	Q3581 Thru	-	-	-
D458 Thru	-	-	-	IC3031	-	MC14066BCP	NTE4066B	Q3586	-	MSD601-RT1	NTE2408
D464	-	MA165	NTE519	IC3580	-	TC74HC4066AL	-	Q4108 Thru	-	-	-
D501	-	MA4082L	-	IC4301	-	MC14066BCP	NTE4066B	Q4111	-	MSD601-RT1	NTE2408
# D532	-	MA4062L	NTE5012A	IC4402	-	STK392-110	-	Q4131	-	MSB709-RT1	NTE2409
D551	-	RH3FLFS1	-	IC7001, 02	-	TLC2932IPWL	-	Q4132	-	MSD601-RT1	NTE2408
D552	-	S2L60P1518	-	IC7102	-	TVS1137	-	Q4141	-	MSB709-RT1	NTE2409
# D553	-	MA4270M	NTE146A	IC7103	-	SN74HC74NSTL	-	Q4142	-	MSD601-RT1	NTE2408
D561	-	MA165	NTE519	IC7104	-	JLC1562BFEL	-	Q4151	-	MSB709-RT1	NTE2409
D562	-	MA4039M	-	IC7105	-	TVSA0030	-	Q4152	-	MSD601-RT1	NTE2408
D564	-	MA165	NTE519	IC7107	-	M62354FP-E2	-	Q4154	-	MSB709-RT1	NTE2409
# D581	-	ERA22-04	NTE552	IC7108	-	TVSA0034	-	Q4155	-	MSD601-RT1	NTE2408
# D582	-	AU02	NTE552	IC7109	-	LC36256AML1T	-	Q4156	-	MSB709-RT1	NTE2409
# D583	-	RPIH	NTE525	IC7110	-	LC78815M-TLM	-	Q4251	-	MSD601-RT1	NTE2408
D756	-	MA165	NTE519	IC7111	-	TVSA0036	-	Q4302	-	MSB709-RT1	NTE2409
# D801	-	ERZC10VK361G	-	IC7112, 13, 14	-	-	-	Q4309	-	MSD601-RT1	NTE2408
# D802	-	RBV-408	NTE5311	IC7115	-	-	-	Q4310	-	MSB709-RT1	NTE2409
D803	-	ERA15-01	NTE116	IC7116 Thru	-	-	-	Q4311	-	MSD601-RT1	NTE2408
D804	-	MA165	NTE519	IC7119	-	-	-	Q4312, 13	-	MSB709-RT1	NTE2409
D816	-	MA700	NTE584	IC7120	-	-	-	Q4315	-	MSD601-RT1	NTE2408
D817	-	AU01Z	NTE552	IC7121, 22, 23	-	-	-	Q7006, 07	-	2SC1384Q	NTE293
D818	-	MA4220L	-	Q001	-	-	-	Q7031	-	MSD601-RT1	NTE2408
# D819	-	TMPG10G3	-	Q002	-	-	-	Q7101, 03, 05	-	MSB709-RT1	NTE2409
D821	-	MA165	NTE519	Q004	-	-	-	Q7107	-	MSD601-RT1	NTE2408
D822	-	ERA22-02	NTE552	Q005	-	-	-	-	-	-	-
# D831	-	RU30ALFS1	NTE580	Q302	-	-	-	-	-	-	-
D832	-	RU3YX-M	NTE588	Q303, 04	-	-	-	-	-	-	-
D833	-	RU3YX-MLF-C4	NTE588	Q305, 06	-	-	-	-	-	-	-
# D834, 35	-	RL3ZLFS1	-	Q353	-	-	-	-	-	-	-
# D836	-	RL4ZLF-L1	-	Q356	-	-	-	-	-	-	-
D837	-	MA165	NTE519	Q373	-	-	-	-	-	-	-
D838	-	MA4047L	NTE5009A	Q376	-	-	-	-	-	-	-
D839	-	MA4033M	-	Q393	-	-	-	-	-	-	-
D840	-	MA167	NTE519	Q396	-	-	-	-	-	-	-
D841, 43	-	MA165	NTE519	Q397, 98	-	-	-	-	-	-	-
D844	-	MA4020	-	Q401	-	-	-	-	-	-	-
D845, 46	-	MA151K	NTE593	Q402	-	-	-	-	-	-	-
D847, 48, 49	-	MA165	NTE519	Q410, 11	-	-	-	-	-	-	-
D1110	-	MA151K	NTE593	Q451, 52, 53	-	-	-	-	-	-	-
D1551	-	MA165	NTE519	Q501	-	-	-	-	-	-	-
D1552	-	MA29-B	-	# Q551	-	-	-	-	-	-	-
D1571	-	MA165	NTE519	Q561	-	-	-	-	-	-	-
D1581	-	AS01	NTE552	Q601, 02	-	-	-	-	-	-	-
# D1583	-	MA4062L	NTE5012A	Q751	-	-	-	-	-	-	-
D1584, 85	-	MA4330M	-	Q752	-	-	-	-	-	-	-
D1901	-	MA4110M	NTE5020A	Q753	-	-	-	-	-	-	-
D2301	-	MA4390M	-	# Q801	-	-	-	-	-	-	-
D2354	-	MA4180M	NTE5027A	Q802	-	-	-	-	-	-	-
D3001	-	MA151K	NTE593	Q803	-	-	-	-	-	-	-
D3004	-	MA165	NTE519	Q810	-	-	-	-	-	-	-
D3012 Thru	-	-	-	Q831	-	-	-	-	-	-	-
D3017	-	MA4110	NTE5020A	Q832	-	-	-	-	-	-	-
D3022, 23	-	MA4110	NTE5020A	Q833	-	-	-	-	-	-	-
D3100, 01	-	MA151K	NTE593	Q834	-	-	-	-	-	-	-
D3580	-	MA151K	NTE593	Q1110	-	-	-	-	-	-	-
D4104	-	MA151W	NTE596	Q1551	-	-	-	-	-	-	-
D4105	-	MA151K	NTE593	Q1552	-	-	-	-	-	-	-
D4106	-	MA4056M	NTE5011A	Q1553	-	-	-	-	-	-	-
D4107	-	MA151K	NTE593	Q1571, 72	-	-	-	-	-	-	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
C109	-	ECEA1HN100U	-
C302, 04	-	ECEA1HN010U	-
C356	-	ECKD3D332KB	-
C357	-	ECEA1HN3R3U	-
C359, 63	-	ECKD3D102KB	-
C376	-	ECKD3D332KB	-
C377	-	ECEA1HN3R3U	-
C379	-	ECKD3D102KB	-
C396	-	ECKD3D332KB	-
C397	-	ECEA1HN3R3U	-
C452	-	ECSF1EE105	-
C459	-	ECA1VM471	-
C505	-	ECUX1H221JUX	-
# C551	-	ECKD3D221JB	-
# C552, 53	-	ECKD3D152JB	-
# C554	-	ECQB1H563JF	-
# C555	-	ECWH12H392JC	-
-	-	ECWH12H392JS	-
# C556	-	ECKD3D181JB	-
# C557	-	ECWH12H103JC	-
-	-	ECWH12H103JS	-
# C558	-	ECQF4273JZH	-
# C559	-	ECKD3D391JB	-
# C560	-	TAC7A2D474JC	-
C561	-	ECEA1HN2R2U	-
C564	-	ECEA1CN220U	-
C565	-	ECEA1HNR47U	-
# C581	-	ECEA160V33Z	-
# C583	-	ECA2EM470	-
# C585	-	ECA1VM102	-
# C802	-	ECQU2A224MV	-
# C804, 05, 06	-	-	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
# C816, 17	.01 +80% - 20% 500V	ECKD2H103ZF	-
C818	470µF 160V	ECOS2DA471BB	-
# C829, 30	.0039 10% 1kV	ECKD3A392KB	-
	.0047 125VAC	-	-
C831	.0047 20% 250V	ECKCNB472ME	-
# C832	680pF 10% 2kV	ECKD3D681KB	-
	220µF 200V	ECES2DU221EG	-
	220µF 200V	ECOS2DU221EG	-
C833, 35, 37	470pF 10% 1kV	ECKD3A471KB	-
# C838	2200µF 35V	ECA1VM222	-
C839	470pF 10% 1kV	ECKD3A471KB	-
# C840	2200µF 35V	ECA1VM222	-
C841	470pF 10% 1kV	ECKD3A471KB	-
# C842	1000µF 50V	ECA1HM102	-
C844	680pF 10% 2kV	ECKD3D681KB	-
# C870	.0047 250V	-	-
	.0047 20% 250V	ECKCNB472ME	-
C885	100µF 16V NP	ECEA1CN101U	-
C1551	100µF 25V NP	ECEA1EN101U	-
C1572	10µF 50V NP	ECEA1HN100U	-
C1905, 11, 22	1µF 50V NP	ECEA1HN010U	-
C2201	3.3µF 16V Tantalum	ECSP16E3R3	-
C2219	10µF 16V Tantalum	ECSP16E10VB	-
C2310	10µF 16V NP	ECEA1CN100U	-
C2335, 36	1µF 50V NP	ECEA1HKN0101	-
C2432, 33	10µF 16V NP	ECEA1CN100U	-
C3030	10µF 16V NP	ECEA1CKN100	-
C3581	47µF 16V NP	ECEA1CN470U	-
# CR801, 02	Caprisor	EXNGI31P365	130pF, 3.3M, Spark Gap
# DY-B	Yoke	KDY2AS631F	Blue
# DY-G	Yoke	KDY2AS631F	Green
# DY-R	Yoke	KDY2AS631F	Red
# F801	Fuse	0BA1C63NU100	6.3Amp, 125V
	Jack	TJB2A1002I	Assembly
L001	Ferrite Bead	EXCELSA35T	-
L003, 04	4.7µH	TLUABTA4R7K	-
L005	10µH	TLUABTA100K	-
L008	12µH	TLUABTA120K	-
L009	Ferrite Bead	EXCELSA35T	-
L021	39µH	TLTACT390K	-
L103	12µH	TLTACT120J	-
L104	1µH	TLUABTA1R0K	-
L105	VCO	EIV7EN053B	-
L106	18µH	TLTACT180J	-
L107, 08	1µH	TLUABTA1R0K	-
L109	Ferrite Bead	EXCELSA35T	-
L110	1µH	TLUABTA1R0K	-
L351	100µH	ELEBD101KA	-
L352, 53	82µH	TLTACT820K	-
L371	100µH	ELEBD101KA	-
L372, 73	82µH	TLTACT820K	-
L391	100µH	ELEBD101KA	-
L392, 93	82µH	TLTACT820K	-
L552, 53	Ferrite Bead	EXCELSA35B	-
L581	Ferrite Bead	EXCELDLR35C	-
# L751	-	TLH15733M	-
# L801	Line Filter	ELF18D850B	-
# L802	-	ELF18D650M	-
L805, 06	Ferrite Bead	EXCELSA35T	-
L808	Ferrite Bead	EXCELDLR35	-
L810, 11	Ferrite Bead	EXCELSA35T	-
L812, 31	Ferrite Bead	EXCELSA35B	-
L832	Ferrite Bead	EXCELSA39E	-
L833	-	TLP15103S	-
L834 Thru	-	-	-
L839	Ferrite Bead	EXCELSA35T	-
L841, 42	22µH	ELEIE220KA	-
L843	Ferrite Bead	EXCELSA35T	-
L881	10µH	TLUABTA100K	-
L832	-	-	-
L883	10µH	TLUABTA100K	-
L884	10µH	TLTACT100K	-
L1109, 10	10µH	TLTACT100J	-
L1801	1.5µH	TLTACT1R5K	-
L1803	2.2µH	TLTACT2R2K	-
L1804	15µH	TLTACT150J	-
L1806, 07	1µH	TLTACT1R0K	-
L1808	Ferrite Bead	EXCELDLR25	-
L2201	1000µH	ELESNI02IA	-
L2202	470µH	ELESN471IA	-
L3202	18µH	TLTACT180J	-

Item No.	Function/Rating	Mfr. Part No.	Notes
L3204	12µH	TLTACT120J	-
L3206	Filter	EIK1EG025Q	-
L3210	10µH	TLUABTA100K	-
L3308, 33	10µH	TLTACT100K	-
L4101	-	-	-
L4301	2.2µH	TLTACT2R2K	-
L7010	Ferrite Bead	-	-
L7011	Ferrite Bead	-	-
L7012	Ferrite Bead	-	-
L7013	Ferrite Bead	-	-
L7014	Ferrite Bead	-	-
L7015	Ferrite Bead	-	-
L7032	1µH	TLUABTA1R0K	-
L7101, 03, 04, 05	Ferrite Bead	EXCELDLR35	-
L7106	33µH	TLTACT330J	-
L7107 Thru	-	-	-
L7112	1000µH	TLTACT102J	-
LC3200	Delay Line	TAFHCF0234	-
LC3201 Thru	-	-	-
LC3204	L-C Network	EXCEMT101BTS	-
# M009	Socket	TJS1A5160	CRT
# M020	Focus Block	TNX2A1001	HV
# M025 (2)	Line Cord	TSX3134X	AC, Polarized
# M026 (3)	Line Cord	TSX3134X	AC, Polarized
# M028 (2)	CRT	TXFCRT70SER	Blue
# M029 (3)	CRT	TXFCRT70SER	Blue
# M029 (2)	CRT	TXFCRT71SER	Green
# M030 (3)	CRT	TXFCRT71SER	Green
# M030 (2)	CRT	TXFCRT72SER	Red
# M031 (3)	CRT	TXFCRT72SER	Red
R030	10K 1% 1/10W	ERJ6ENF1002	-
R305	3000 1% 1/10W	ERJ6ENF3001	-
R306	1430 1% 1/10W	ERJ6ENF1431	-
R360	3900 1% 1/4W	ER0S2CKF3901	-
R363	5600 5% 3W	ERG3SJS562H	-
R364	4700 5% 3W	ERG3SJS472H	-
R370	3900 1% 1/4W	ER0S2CKF3901	-
R373	5600 5% 3W	ERG3SJS562H	-
R374	4700 5% 3W	ERG3SJS472H	-
R380	3900 1% 1/4W	ER0S2CKF3901	-
R383	5600 5% 3W	ERG3SJS562H	-
R384	4700 5% 3W	ERG3SJS472H	-
R453	1 5% 1/2W Fusible	ERQ12HJ1R0	-
R459	2.2 5% 1/4W Fusible	ERQ14AJ2R2	-
R473	4700 1% 1/4W	ER0S2CKF4701	-
R474	7150 1% 1/4W	ER0S2CKF7151	-
R476	1430 1% 1/4W	ER0S2CKF1431	-
R477	1910 1% 1/4W	ER0S2CKF1911	-
R478	3240 1% 1/4W	ER02SCKF3242	-
R479	15K 1% 1/4W	ER0S2CKF1502	-
R480	12K 1% 1/4W	ER0S2CKF1202	-
R521	1800 5% 3W Fusible	ERQ3CJ182L	-
R522	3300 5% 3W	ERG3SJS332	-
# R552	2.2 10% 5W	ERF5ZK2R2	-
R553	10K 1% 1/4W	ER0S2CKF1002	-
R556	4750 1% 1/4W	ER0S2CKF4752	-
R557	3320 1% 1/4W	ER0S2CKF3322	-
# R583	1 5% 2W Fusible	ERQ2CJP1R0	-
# R584	.33 1% 1/2W Fusible	ERQ12HKR33	-
R758	27 5% 2W Fusible	ERQ2CJ270L	-
# R801	8.2M 10% 1/2W	ERC12ZGK825	-
# R802	1.5 5% 15W	TAR26FJ1R5Z	-
# R810, 11, 19	.22 5% 1/2W	ERX12SJR22	-
# R830	8.2M 10% 1/2W	ERC12ZGK825	-
# R861	.22 10% 1/2W	ERQ12HKR22	-
R1554	27.4K 1% 1/4W	ER0S2CKF2742	-
R1555	2740 1% 1/4W	ER0S2CKF2741	-
R1557	3320 1% 1/4W	ER0S2CKF3321	-
# R1581	33 1% 1/2W Fusible	ERQ12HJ330	-
# R1582	17.8K 1% 1/4W	ER0S2CKF1782	-
# R1584	7150 1% 1/4W	ER0S2CKF7151	-
R2208	91K 1% 1/10W	ERJ6ENF9102	-
R3009, 12	82 1% 1/4W	ER0S2CKF82R0	-
R3015, 24	75 1% 1/4W	ER0S2CKF75R0	-
R4135	1800 1% 1/10W	ERJ6ENF1801	-
R4170	1200 1% 1/10W	ERJ6ENF1201	-
R7166	11K 1% 1/10W	ERJ6ENF1102	-
R7241	10K 1% 1/10W	ERJ6ENF1002	-
# RL801	Relay	TSEH8007	Power
RM002	Receiver	RPM-637CBRL	Remote
S010	Switch	EVQQVC13T	Power

Item No.	Function/Rating	Mfr. Part No.	Notes
S011	Switch	EVQQVC13T	Volume Down
S012	Switch	EVQQVC13T	Volume Up
S013	Switch	EVQQVC13T	Channel Down
S014	Switch	EVQQVC13T	Channel Up
S015	Switch	EVQQVC13T	TV/Video
S016	Switch	EVQQVC13T	Action
SP1, 2	Speaker	EASG12P525A2	-
# T501	Horizontal Driver	ETH19Y70AYM	-
# T551 (1)	Horizontal Output	KFT7AQ051F	-
# T801	Power	TLP16297	-
# T802	Power	ETS42AD365AC	-
# TNR001	Tuner	ENV56D18G3	-
X001	Crystal	TSS2080MX	12MHz
X101	Filter	M1969M	SAW
X102	Filter	EFCWS4504AB	4.5MHz
X201	Filter	EFC4R5MS5W	4.5MHz
X501	Crystal	TAFCSB503F38	503kHz
X601 (2)	Crystal	TSS2AA001	3.58MHz
X601 (3)	Crystal	TS816M32	3.58MHz
X1801	Crystal	TSSA050	-
X7101	Crystal	EF0EC2005W4	-
	Lens	TKGF5005	PTV
	Mirror (2)	TKG2A20120	-
	Mirror (3)	TKG2A20118	-
	Blue	TNPH0120	A
	PC Board	TNPH0121	B
	PC Board	TNPA0042AD	C
	PC Board	TNPA0609	D
	PC Board	TNPA0614	K
	PC Board	TNPA0612	LB
	PC Board	TNPA0611	LG
	PC Board	TNPA0610	LR
	PC Board	TNPA0615	R
	PC Board	TNPA0613	X
	PC Board	TNP2AA009AE	Y
	Screen (2)	TXFKG0997SER	Fresnel
	Screen (3)	TXFKG0497SER	Fresnel
	Screen (2)	TKG2AH50081	Lenticular
	Screen (3)	TXFKG0597SER	Lenticular
	Screen (2)	TXFKG0697SER	Frame
	Screen (3)	TXFKG0197SER	Frame
	Screen (2)	TXFKG0797SER	Panel
	Screen (3)	TXFKG0396SER	Panel
	Transmitter (2)(4)	TNQ2AE007-1	Remote
	Transmitter (5)	EUR511001A	Remote

For SAFETY use only equivalent replacement part.
(1) Screen and focus controls are part of T551.
(2) Used in 61" models.
(3) Used in 51" models.
(4) Used in models PT-51G42V/CV/LV/PV/TV/UV/XV.
(5) Used in model PT-51G41V

TEST EQUIPMENT

Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

Equipment	Sencore No.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR570
Generators		Capacitance Analyzer	LC102
		CRT Analyzer	CR7000
RGB	CM2125	AC Leakage Tester	PR570
Multiburst Signal	VG91	Inductance Analyzer	LC102
Color Bar	VG91	Flyback Yoke Tester	TVA92
TV Stereo	VG91	Field Strength Meter	SL753
Digital VOM	SC3100	Transistor Tester	TF46
Frequency Meter	SC3100	Horizontal Analyzer	HA-2500
Hi-Voltage Probe	HP200	Video Analyzer	VG91, TVA92
Accessory Probes	TP212		