

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.

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC to the receiver. Press the power button. Momentarily place a 6.8K ± 34 ohms 1/4W resistor across pin 2 and pin 3 of connector S1. The receiver should lose raster and sound and remain in that state. If the receiver does not lose raster and sound, the high voltage shutdown circuit requires repair. To resume normal operation, remove resistor across pins 2 and 3 of connector S1. Remove AC power and wait 15 seconds and test the receiver for normal operation.

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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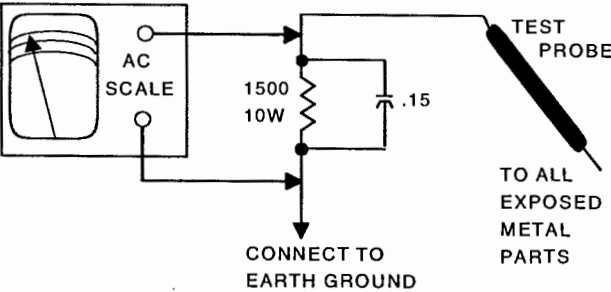
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



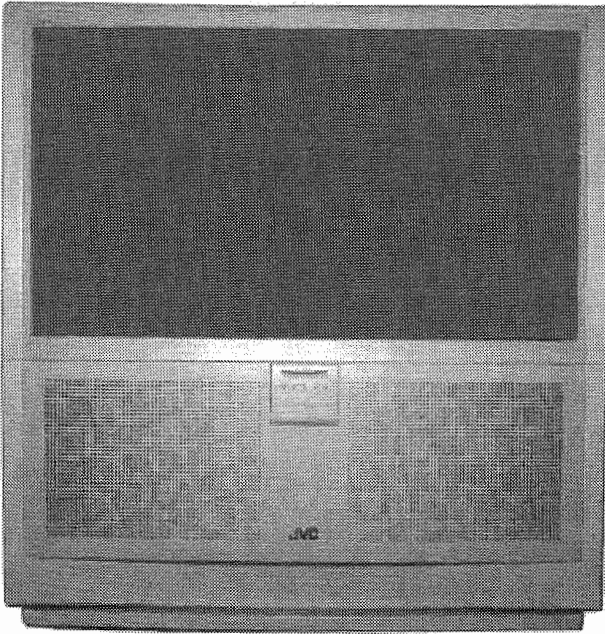
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04HD04000

PHOTOFACT<sup>®</sup> Technical Service Data  
HD

JVC

Model AV-48WP30/H-ME (Chassis A105)

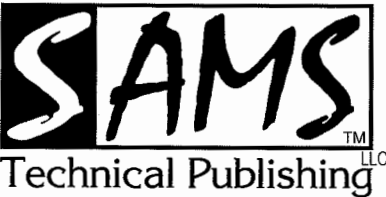


Essential coverage  
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Models
AV-48WP30/A	AV-48WP30/B-ME
AV-48WP30/A-ME	AV-48WP30/ME
AV-48WP30/B	



JANUARY 2004 SET 4835

SET 4835

MODEL AV-48WP30/H-ME (CHASSIS A105)

JVC

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For a Complete List of Manuals,  
Visit [www.samswebsite.com](http://www.samswebsite.com)

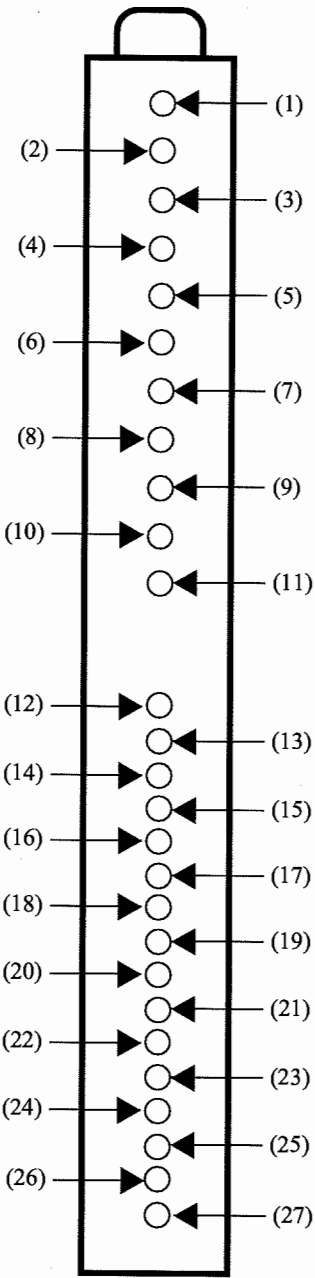
TUNER INFORMATION

MAIN TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.1V	2.3V	1.7V
(2) NC	2.1V	4.4V	5.4V
(3) ADRS	5.0V	5.0V	5.0V
(4) SCL	4.7V	4.7V	4.7V
(5) SDA	4.7V	4.7V	4.7V
(6) NC	0V	0V	0V
(7) 5V	5.0V	5.0V	5.0V
(8) NC	0V	0V	0V
(9) 30V	31.6V	31.6V	31.6V
(10) NC	0V	0V	0V
(11) IF	0V	0V	0V
(12) NC	0V	0V	0V
(13) 9V	9.0V	9.0V	9.0V
(14) SIF	2.5V	2.5V	2.5V
(15) GND	0V	0V	0V
(16) AFT	1.7V	1.7V	1.4V
(17) RF AGC	2.1V	2.2V	1.7V
(18) VIDEO	2.0V	2.0V	2.0V
(19) NC	0V	0V	0V
(20) GND	0V	0V	0V
(21) ST	0V	0V	0V
(22) BIL	0V	0V	0V
(23) MODE	0V	0V	0V
(24) FMONO	0V	0V	0V
(25) MUTE	0V	0V	0V
(26) R	0V	0V	0V
(27) L	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.

MAIN TUNER TERMINAL GUIDE

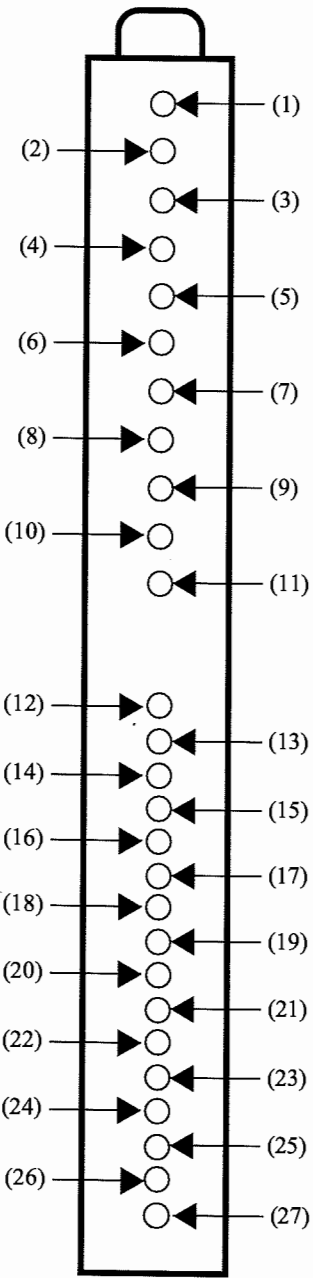


PIP TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.1V	2.2V	1.7V
(2) TU	2.1V	4.4V	6.9V
(3) ADRS	2.5V	2.5V	2.5V
(4) SCL	4.7V	4.7V	4.7V
(5) SDA	4.7V	4.7V	4.7V
(6) NC	0V	0V	0V
(7) 5V	5.0V	5.0V	5.0V
(8) NC	0V	0V	0V
(9) 30V	31.6V	31.6V	31.6V
(10) NC	0V	0V	0V
(11) IF	0V	0V	0V
(12) NC	0V	0V	0V
(13) 9V	9.0V	9.0V	9.0V
(14) SIF	2.9V	2.9V	2.9V
(15) GND	0V	0V	0V
(16) AFT	1.8V	1.4V	1.4V
(17) RF AGC	2.1V	2.2V	1.7V
(18) VIDEO	2.0V	2.0V	2.0V
(19) NC	0V	0V	0V
(20) GND	0V	0V	0V
(21) ST	0V	0V	0V
(22) BIL	0V	0V	0V
(23) MODE	0V	0V	0V
(24) FMONO	0V	0V	0V
(25) MUTE	0V	0V	0V
(26) R	0V	0V	0V
(27) L	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.

PIP TUNER TERMINAL GUIDE



**SCHEMATIC COMPONENT LOCATION GUIDE**

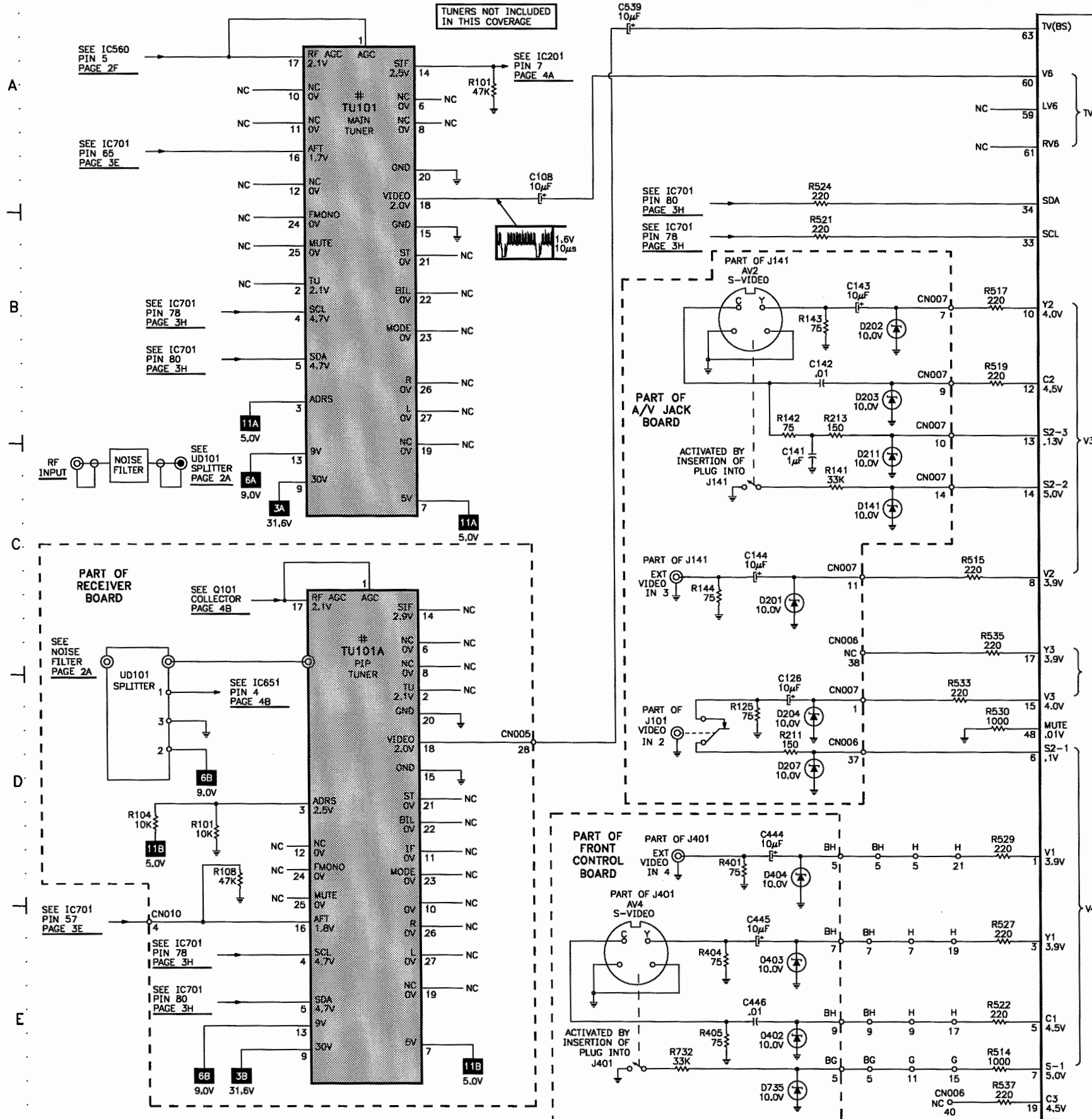
C001	A115	C108	A42	C136	C19	C220	E68	C341	B104	C446	B12	C607	D68	C714	A81	C833	D91	CP941	C97	D405	B144	D824	D92	IC001	D26	J001	B80	L211	C103
C001	C108	C108	B121	C137	B135	C221	D134	C341	B17	C446	E3	C607	E127	C715	A51	C834	E91	CP942	C97	D405	C65	D825	D92	IC001	D27	J101	D3	L243	C14
C001	D108	C108	B137	C137	C19	C221	E68	C342	B103	C447	B12	C608	D126	C716	D53	C838	D100	CP943	D96	D405	D18	D826	E92	IC002	C26	J101	D65	L244	C14
C002	A115	C108	B3	C138	C137	C233	C129	C342	B17	C449	C12	C608	D68	C717	B107	C843	D82	D001	A46	D406	B142	D827	E92	IC002	C27	J101	E6	L401	B10
C002	A116	C108	C121	C141	C4	C241	A110	C343	B17	C450	C12	C609	D68	C718	B108	C901	A109	D001	C108	D406	B18	D841	C100	IC002	C58	J101	E65	L402	C10
C002	B115	C108	C42	C142	B4	C242	A112	C343	C103	C451	C105	C610	C68	C719	D53	C901	A94	D001	C46	D406	C65	D842	D81	IC002	D135	J101	E65	L430	B12
C002	C108	C108	D43	C143	B4	C243	B105	C344	B104	C452	C13	C610	D126	C720	B59	C902	A112	D001	D46	D407	B143	D843	D100	IC002	D26	J101	E65	L431	A107
C002	D108	C108	E121	C144	C4	C244	B104	C345	B103	C453	C104	C611	D68	C721	C53	C902	A94	D101	A120	D431	B13	D891	E63	IC002	D27	J141	C3	L431	C12
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C003	D108	C109	A100	C146	D66	C250	B104	C351	D107	C480	D10	C613	C127	C723	B61	C903	A93	D101	C120	D471	C126	D893	D55	IC011	E14	J141	D65	L482	D12
C006	B46	C109	A100	C148	B104	C251	B12	C352	E137	C481	B105	C614	C127	C724	B53	C904	A95	D101	C44	D473	C126	D894	D55	IC011	E15	J321	C17	L501	D144
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C006	E46	C109	D43	C150	B104	C253	C14	C358	C27	C483	C105	C616	C127	C726	C51	C906	A96	D101	D45	D482	D12	D901	A109	IC101	A136	J321	D17	L504	D145
C007	A45	C110	B123	C151	B104	C254	C15	C359	D30	C484	C105	C617	D127	C727	D51	C907	A96	D101	E6	D501	D142	D901	A96	IC101	A43	J341	B17	L531	E145
C007	C45	C110	C123	C152	B103	C255	B16	C361	D30	C485	D12	C618	C127	C728	B53	C908	A96	D102	A123	D504	D144	D903	C103	IC101	B43	J341	B17	L701	B146
C007	D45	C110	C136	C160	E105	C256	B104	C362	D30	C486	D12	C619	C127	C729	B53	C908	C103	D102	C123	D506	D143	D911	C95	IC102	B99	J401	C65	L711	E107
C011	E16	C110	E123	C161	B112	C259	B15	C363	E30	C487	D12	C620	D112	C730	C53	C909	C103	D102	C44	D521	D139	D911	E93	IC131	C19	J401	C65	L712	A55
C012	B103	C111	B123	C162	B112	C260	B15	C364	E31	C488	D12	C621	D127	C731	B53	C911	E94	D102	C44	D521	D139	D911	E93	IC131	C19	J401	C65	L712	A55
C013	E15	C111	C135	C162	E104	C261	B16	C366	B103	C489	D12	C622	D126	C732	C55	C912	C96	D102	D123	D522	D139	D912	C96	IC151	C21	J401	D3	L713	A55
C021	B103	C111	D123	C163	C104	C262	B16	C381	E35	C490	E12	C631	B71	C733	C56	C913	C95	D102	E43	D531	B70	D912	E94	IC161	A139	J531	B65	L714	A55
C101	A119	C111	E123	C164	C105	C263	B14	C382	E35	C491	C104	C632	A71	C734	A55	C914	C96	D103	B123	D531	E144	D913	C96	IC162	D140	J531	B65	L801	C99
C101	B42	C112	A122	C165	A138	C264	A13	C389	E104	C501	D142	C633	C72	C735	E51	C916	C96	D103	C123	D532	B70	D913	E93	IC162	E141	J531	B71	L801	D146
C101	C119	C112	C122	C166	C140	C265	B13	C391	E104	C501	E105	C634	C71	C743	E59	C917	C96	D103	D43	D533	D73	D914	C95	IC201	A69	J531	B71	L802	E97
C101	C42	C112	C135	C167	E141	C266	B15	C401	B10	C502	D142	C635	B71	C744	E59	C918	D95	D103	E123	D534	D72	D914	E94	IC201	C82	J701	B58	L931	A98
C101	D119	C112	D122	C168	B138	C269	B15	C401	C115	C502	E104	C636	B72	C745	D51	C919	B96	D141	C4	D551	B66	D915	C96	IC211	A129	K101	A123	L933	E96
C101	D42	C113	B122	C169	C138	C270	C15	C402	B142	C503	D143	C637	B72	C751	C139	C920	C96	D164	E138	D552	B65	D916	C95	IC212	A130	K101	C123	L934	C98
C101	E6	C113	B137	C170	B138	C271	A13	C402	C10	C506	D144	C638	B104	C752	B52	C921	E94	D201	E147	D562	E146	D918	C95	IC212	C134	K401	B144	L936	B98
C102	A136	C113	D122	C171	A138	C272	A14	C403	A112	C507	D144	C639	B104	C752	C141	C930	E95	D201	E147	D562	E146	D918	C95	IC212	B130	K101	D123	L935	D98
C102	B43	C113	E122	C172	B138	C273	B14	C403	A143	C508	D144	C640	C72	C753	C142	C931	B98	D202	B4	D583	B142	D920	D95	IC241	A15	K504	D144	L941	A102
C102	C42	C114	C137	C173	A138	C275	B16	C404	B105	C509	D145	C651	B108	C754	D50	C932	B97	D203	B4	D661	E78	D921	E94	IC242	A111	K505	D144	L942	D102
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C102	E100	C116	D122	C175	C140	C302	A27	C406	B144	C514	C145	C667	B74	C761	C143	C937	B98	D210	D66	D667	D74	D932	E58	IC401	A142	K802	C89	L946	A106
C102	E100	C117	A121	C176	C138	C303	A27	C407	B142	C519	C105	C668	B76	C762	C143	C942	B99	D212	E66	D669	C73	D933	E58	IC431	A10	K803	E89	L947	E102
C102	E100	C117	B100	C176	D23	C304	A29	C409	B142	C521	B6	C670	A74	C801	A58	C942	C102	D213	B68	D701	B106	D935	D97	IC501	C6	K805	B89	L948	E102
C103	B100	C117	D121	C178	B112	C306	B105	C410	C105	C522	D145	C671	A76	C801	C100	C943	E96	D213	E66	D701	B58	D936	C97	IC501	C67	K806	A89	L950	D101
C103	B43	C118	B121	C178	C23	C307	D31	C411	C143	C522	E145	C673	C77	C802	C115	C944	E96	D215	E6	D702	D58	D937	D97	IC502	C9	K807	A83	LC101	A118
C103	C43	C118	B135	C179	B112	C308	B31	C411	D108	C523	D138	C674	D100	C802	C99	C945	D97	D216	D6	D704	B51	D941	B99	IC550	D24	K810	D83	LC101	D118
C103	D136	C118	C121	C180	C112	C309	E31	C412	A141	C524	D139	C675	B77	C802	E49	C945	D97	D217	D6	D708	D60	D941	B99	IC560	D24	K810	D83	LC131	D18
C103	D6	C118	E121	C181	C112	C310	E31	C413	A112	C525	D139	C676	C77	C803	A114	C946	D98	D218	D66	D709	B58	D942	D102	IC601	B127	K811	D83	LC321	D17
C103	E100	C119	A123	C182	C112	C311	E31	C413	A141	C527	B112	C677	C77	C803	D82	C947	A102	D219	E66	D710	D55	D943	E102	IC631	B72	K912	C95	LC322	C17
C103	E100	C119	B99	C201	D70	C312	E31	C414	A112	C531	B70	C678	A77	C804	D82	C948	C103	D220	E6	D711	D54	D952	C94	IC651	D71	K914	C97	LC323	C17
C103	E43	C119	D123	C202	B105	C315	B104	C416	A10	C532	C8	C680	C76	C805	E97	C949	E103	D221	D134	D713	E55	D953	E94	IC661	A76	K930	E95	LC341	B17
C104	A105	C120	A100	C203	B105	C316	B104	C416	B142	C533	E145	C696	C73	C807	C100	C951	E101	D302	A38	D715	C106	D956	D94	IC701	C52	K935	D97	LC343	B17
C104	B105	C120	A100	C204	D70	C317	B104	C417	B143	C534	E145	C697	D74	C808	C100	C952	E102	D304	C35	D716	C106	D958	E96	IC701	C60	K937	D97	LF901	A94
C104	B135	C120	A100	C207	C70	C318	B29	C417	C10	C536	E144	C701	B146	C809	C99	C953	E103	D305	C38	D718	E50	D959	D96	IC702	B50	K938	A97	LF902	A94
C104	E100	C120	B100	C208	C68	C319	B29	C418	B10	C539	A3	C701	D58	C810	C99	C954	D94	D308	E31	D722	D52	D964	C102	IC702	C106	K943	A101	LF903	A93
C104	E100	C121	C112	C209	C70	C320	C29	C421	B104	C551	B65	C701	E108	C811	E146	C954	D94	D309	D35	D722	D52	D964	C102	IC703	E55	K944	D101	PC921	D95
C104	E6	C122	C112	C210	C70	C321	B31	C424	A24	C552	B65	C702	B106	C813	C99	C957	D107	D309	D35	D722	D52	D964	C102	IC703	E55	K944	D101	PC921	D95
C104	E6	C123	D135	C211	C70	C321	D17	C425	B24	C560	A108	C702	E108	C814	C99	C958	E108	D310	E35	D722	D52	D964	C102	IC703	E55	K944	D101	PC921	D95
C105	C42	C124	D135	C212	A68	C321	E147	C426	B24	C562	A146	C703	B108	C815	C99	C958	E108	D310	E35	D722	D52	D							



**SCHEMATIC COMPONENT LOCATION GUIDE continued**

Q104	E120	Q701	B82	R033	E42	R112	C121	R144	C3	R207	C70	R312	E27	R385	D36	R480	D10	R537	E5	R672	C77	R749	B49	R815	E83	R901	A93	R986	E103
Q105	A122	Q701	D58	R101	A119	R112	D136	R145	A24	R208	E70	R313	E28	R386	E37	R481	B128	R538	C70	R673	C77	R749	D52	R817	C62	R901	A95	R991	E50
Q105	B122	Q701	E53	R101	A134	R112	E121	R145	D65	R209	A68	R314	B29	R387	E35	R481	D10	R538	E7	R674	A77	R750	B50	R818	A82	R902	A110	R992	E50
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Q304	C38	Q807	C84	R103	E119	R119	B122	R174	E139	R227	B130	R333	D38	R409	B144	R504	D142	R578	E66	R710	B63	R765	E60	R838	D90	R942	A102	S707	B49
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Q436	C12	R001	C42	R105	E119	R124	A120	R184	D23	R258	A13	R347	D38	R435	B11	R523	D139	R631	B70	R725	C86	R787	A61	R851	C91	R955	D98	UD101	D1
Q437	B13	R001	E135	R106	A119	R124	C120	R184	E139	R260	B13	R348	A38	R441	B11	R524	B4	R632	C71	R725	D55	R788	A55	R852	D91	R955	E102	VA901	A93
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Q482	E11	R005	A45	R106	E65	R126	E65	R186	E141	R269	A13	R352	B28	R452	B11	R526	D139	R636	B72	R729	E62	R792	A62	R858	D91	R961	C101		
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Q501	D141	R006	A46	R107	C44	R131	A134	R188	E22	R273	C15	R356	E18	R456	C11	R530	D5	R654	D72	R732	C62	R802	A51	R862	E91	R963	C101		
Q503	D143	R006	C46	R107	D135	R133	A135	R189	E22	R274	C14	R359	E136	R463	B12	R531	B7	R656	D71	R732	E3	R802	C90	R863	E91	R963	D95		
Q505	B6	R006	D46	R107	D45	R133	D18	R190	E141	R275	C14	R363	C27	R464	B12	R531</													

## TELEVISION SCHEMATIC

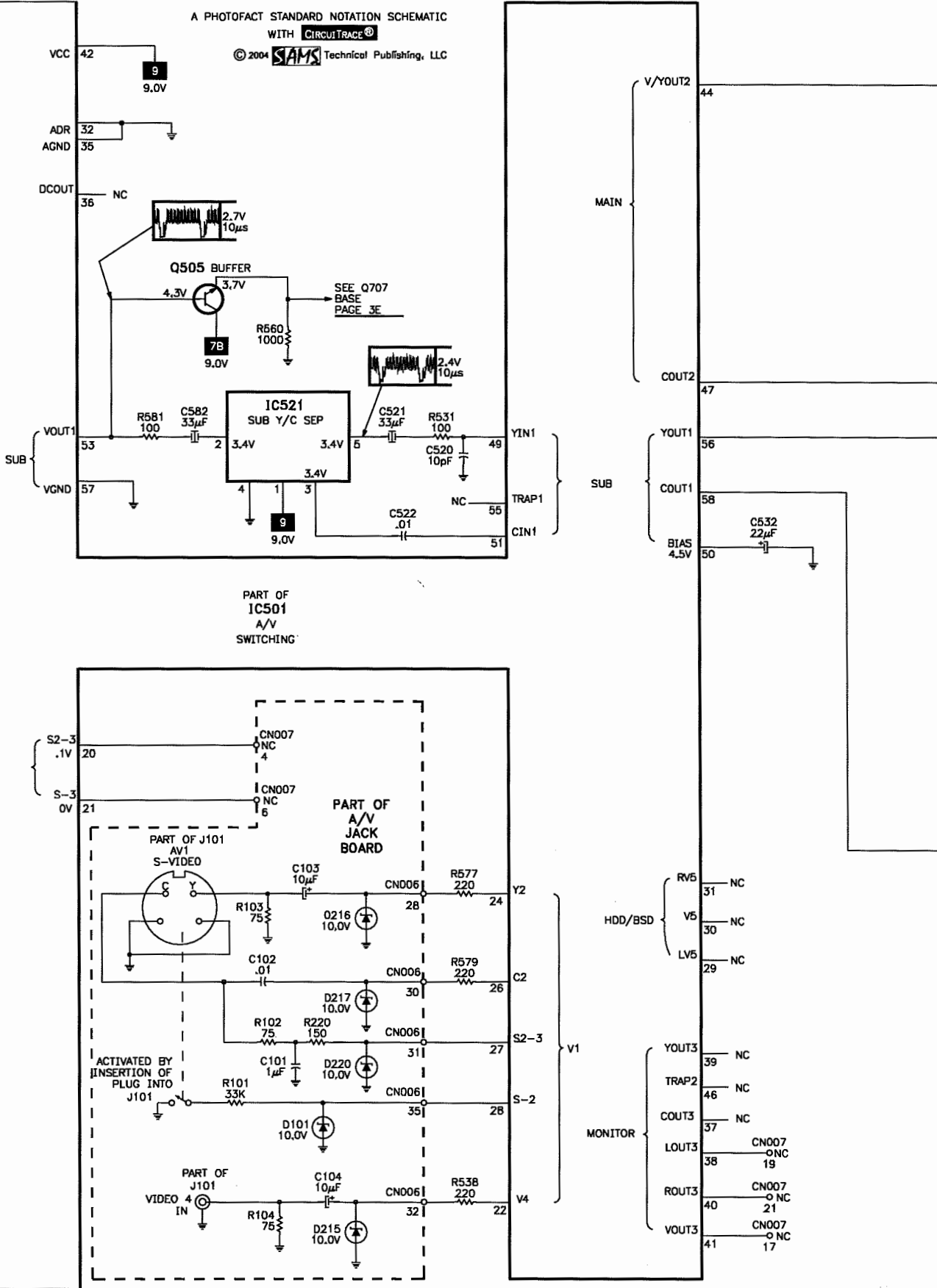


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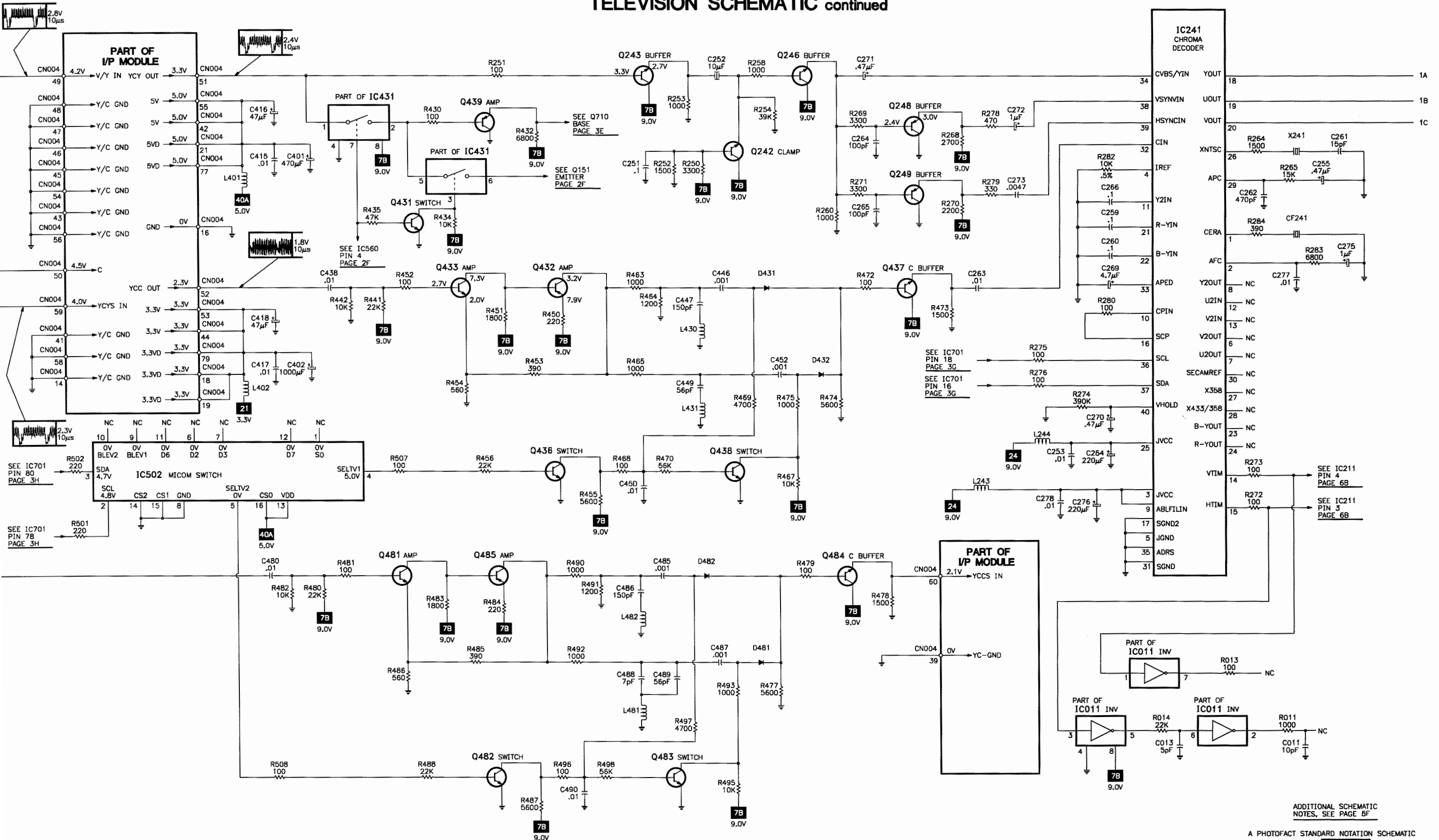
ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 5F

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TELEVISION SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 5F

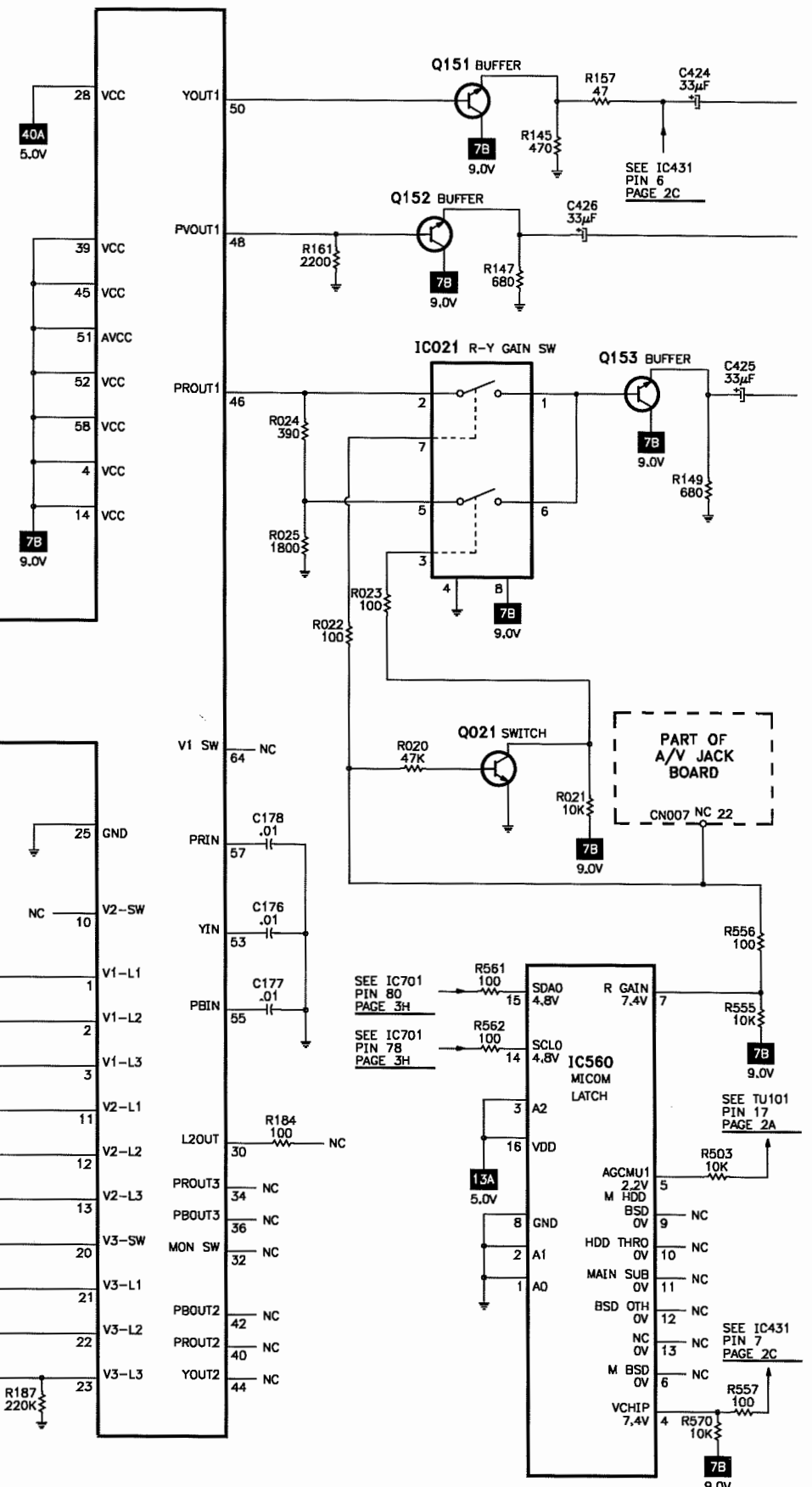
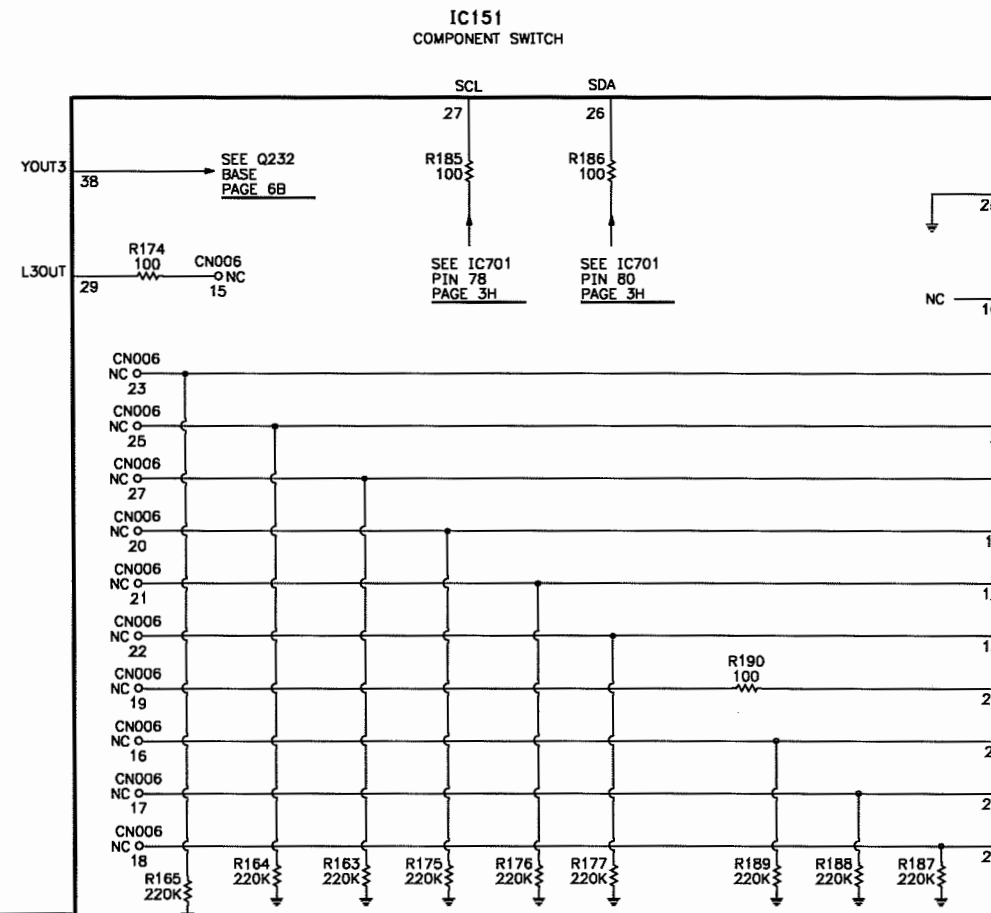
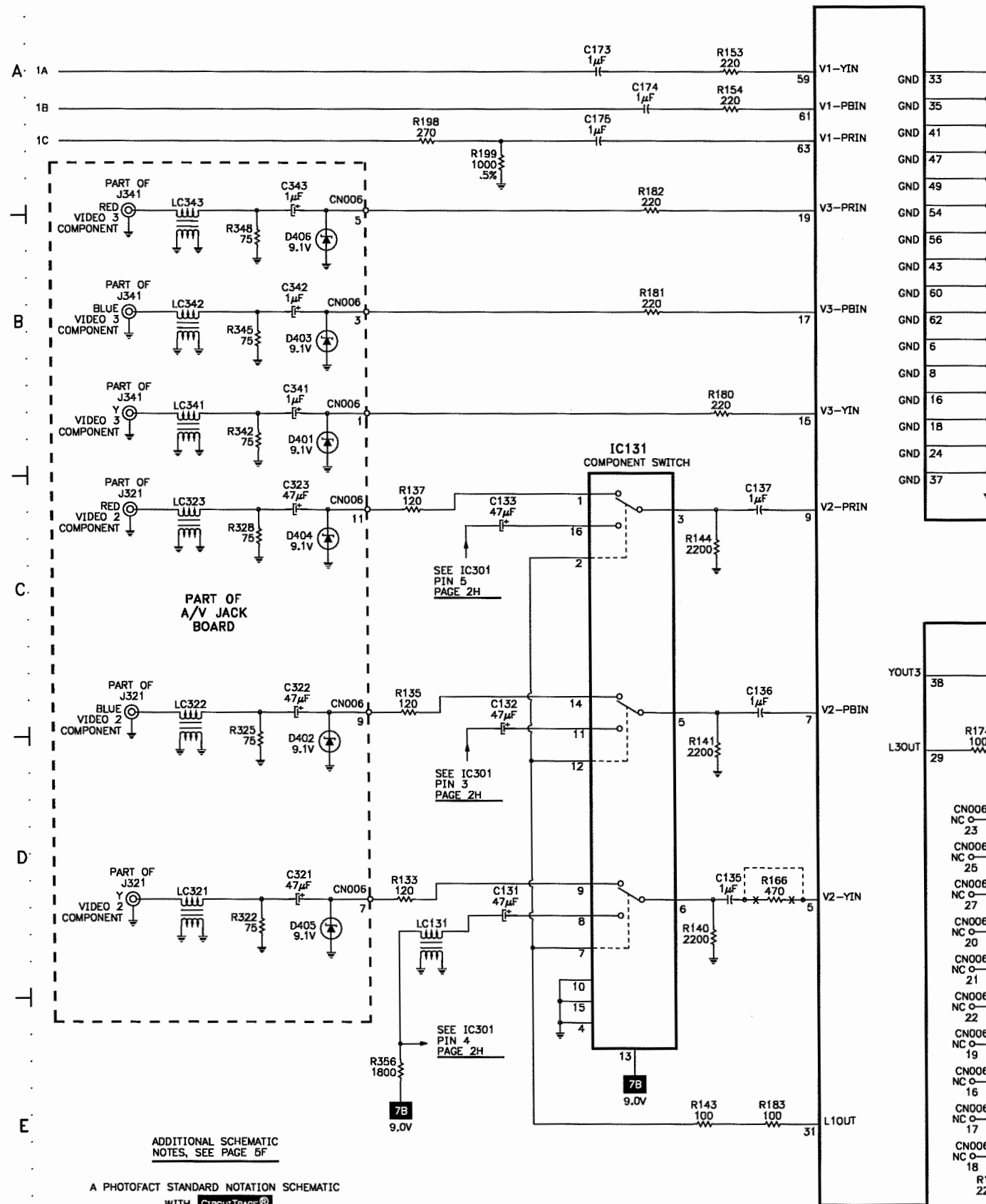
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# TELEVISION SCHEMATIC continued

E

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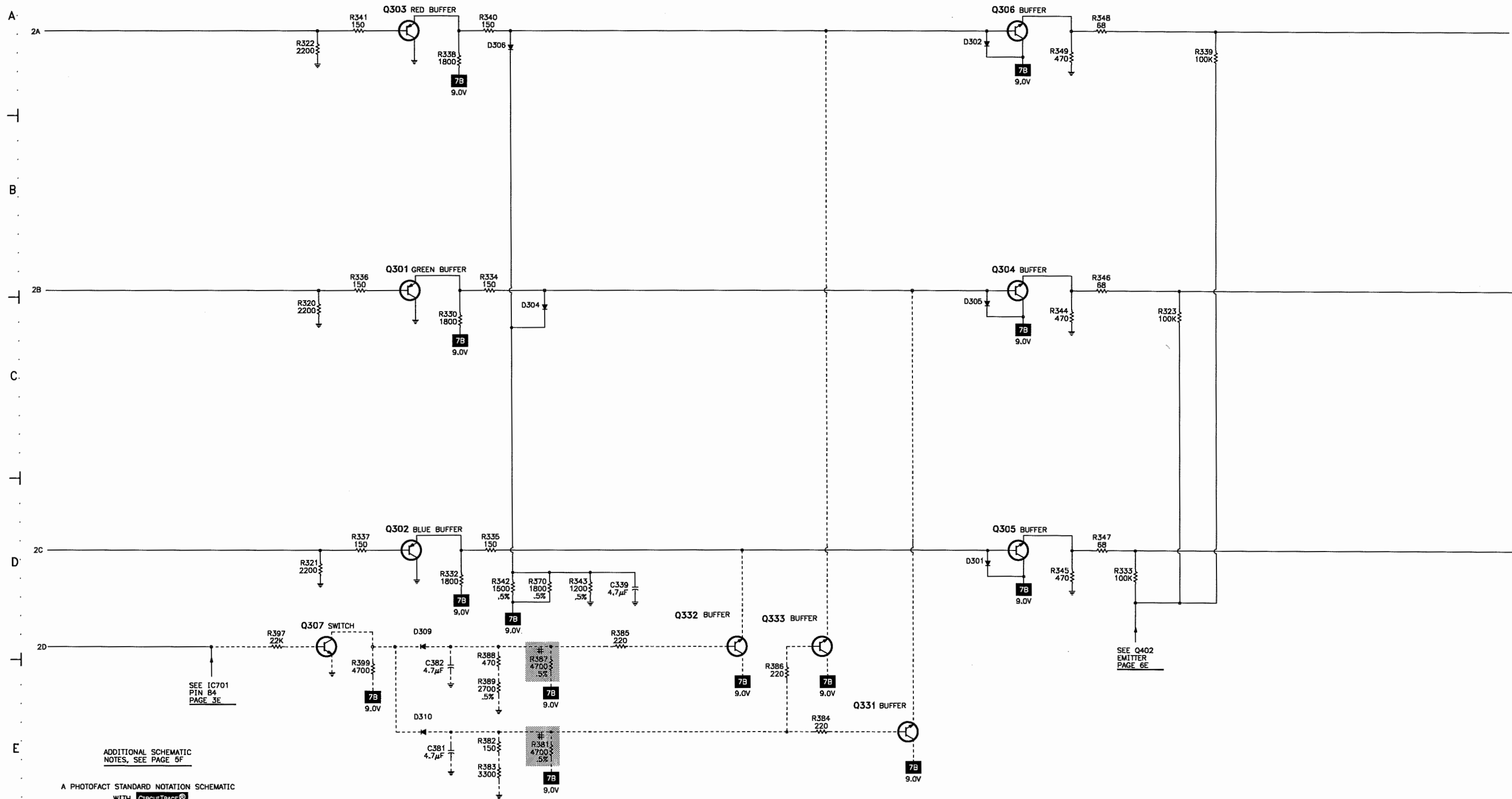




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TELEVISION SCHEMATIC continued



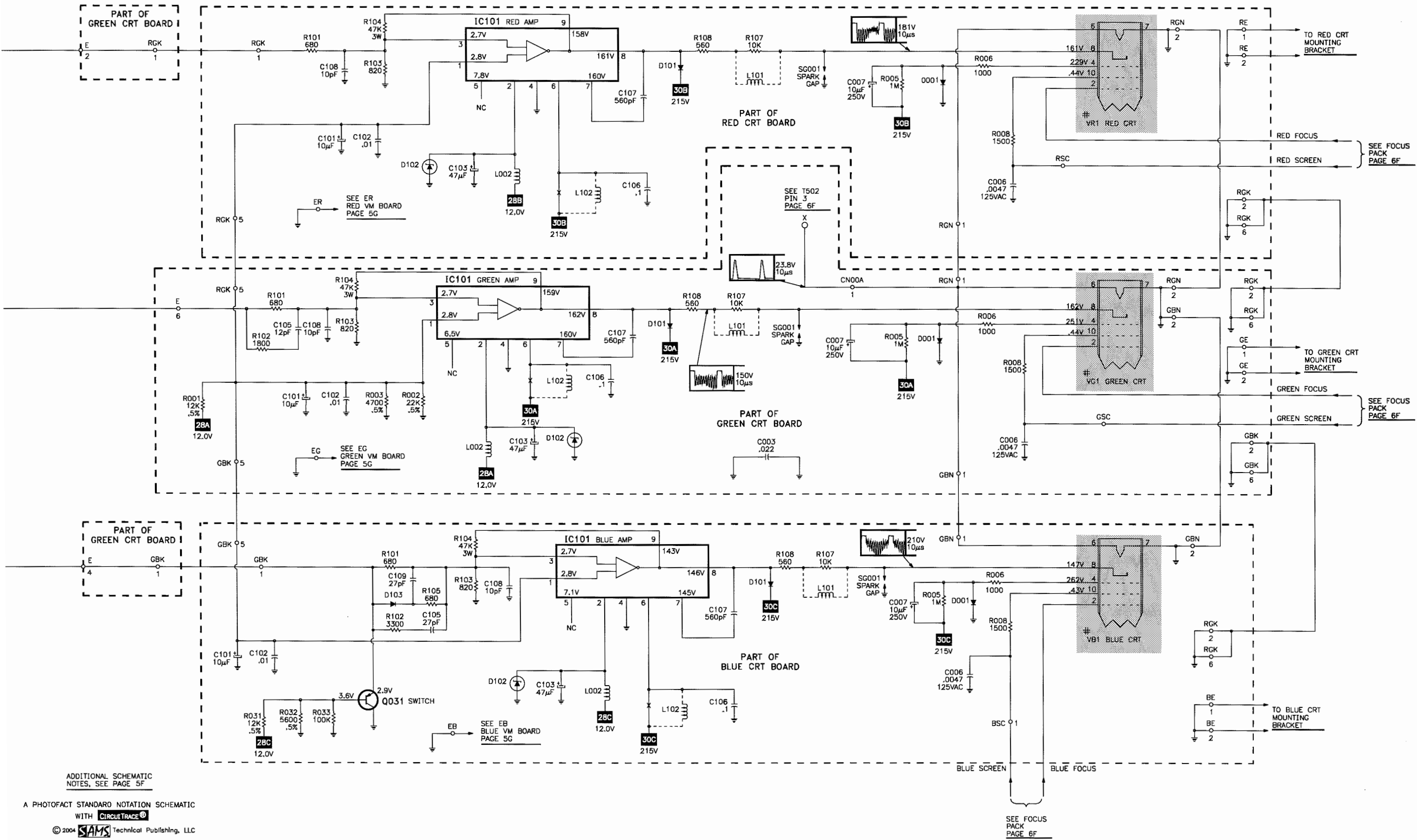
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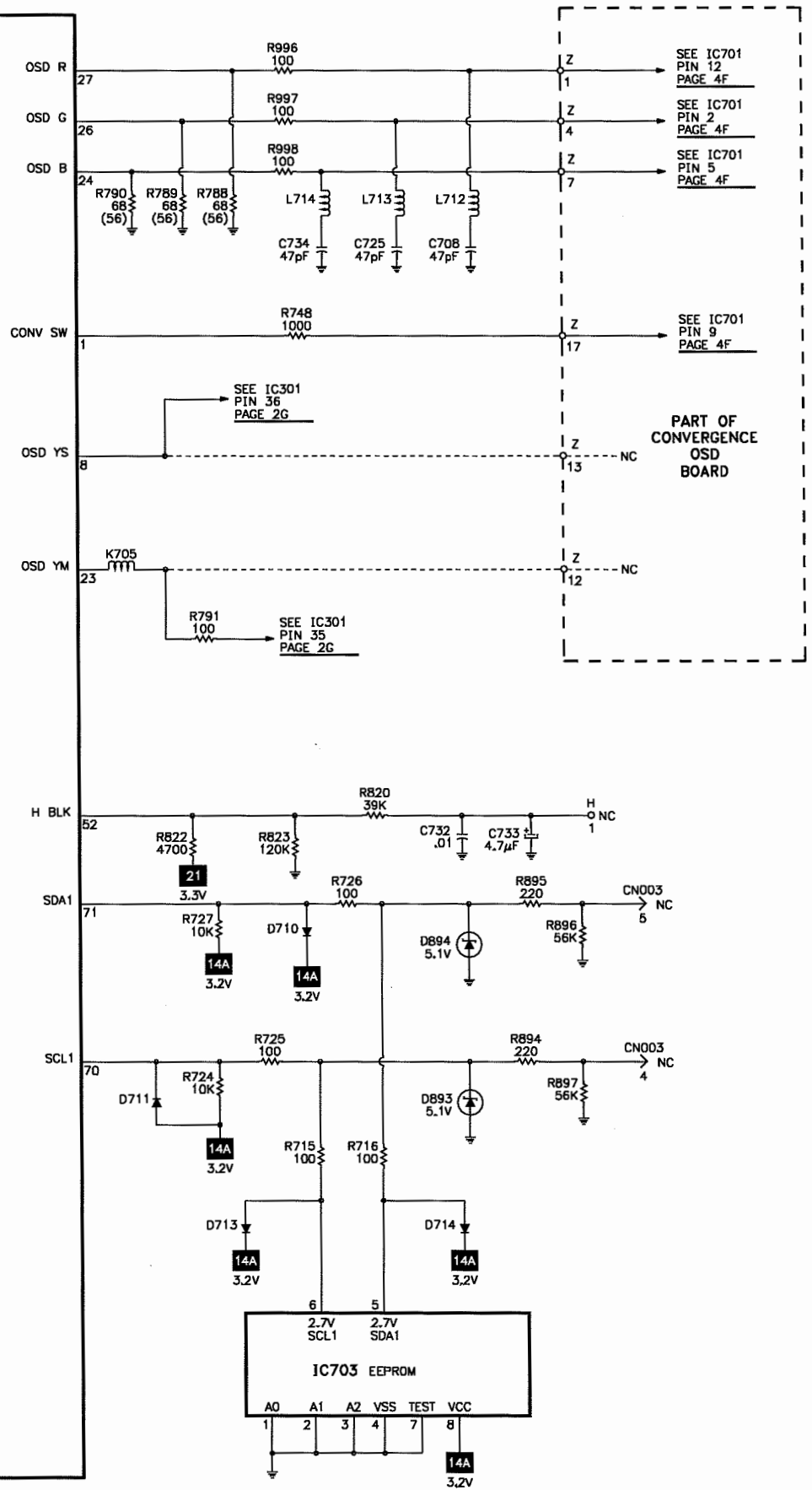
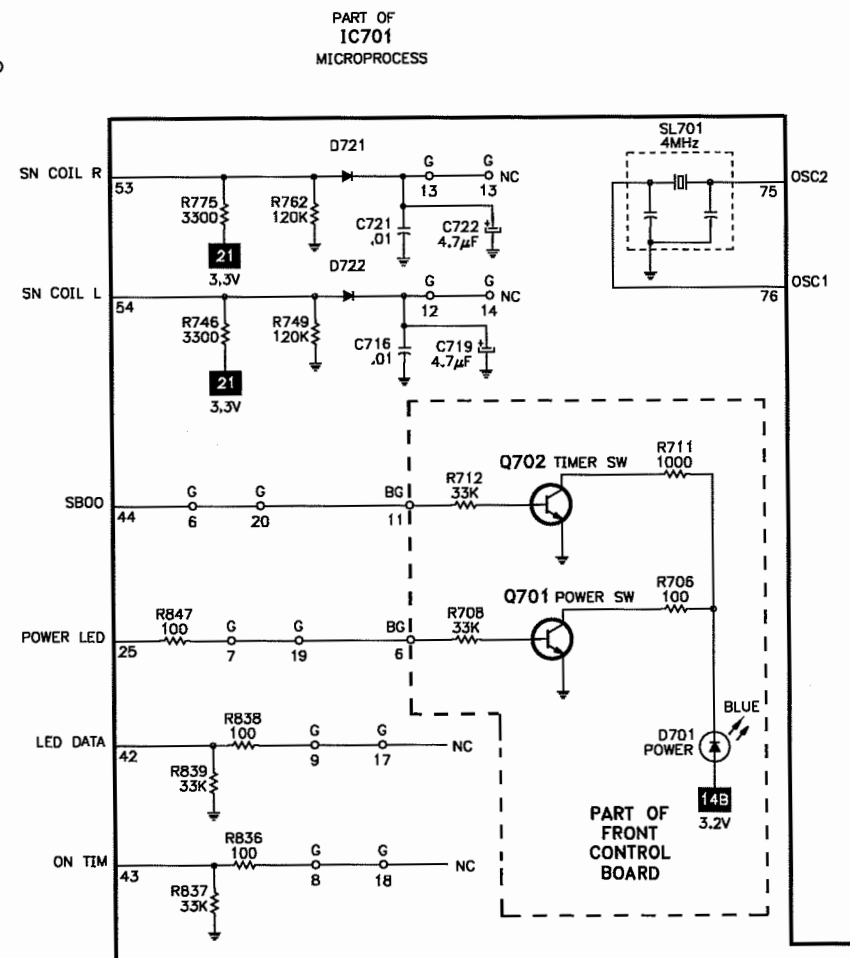
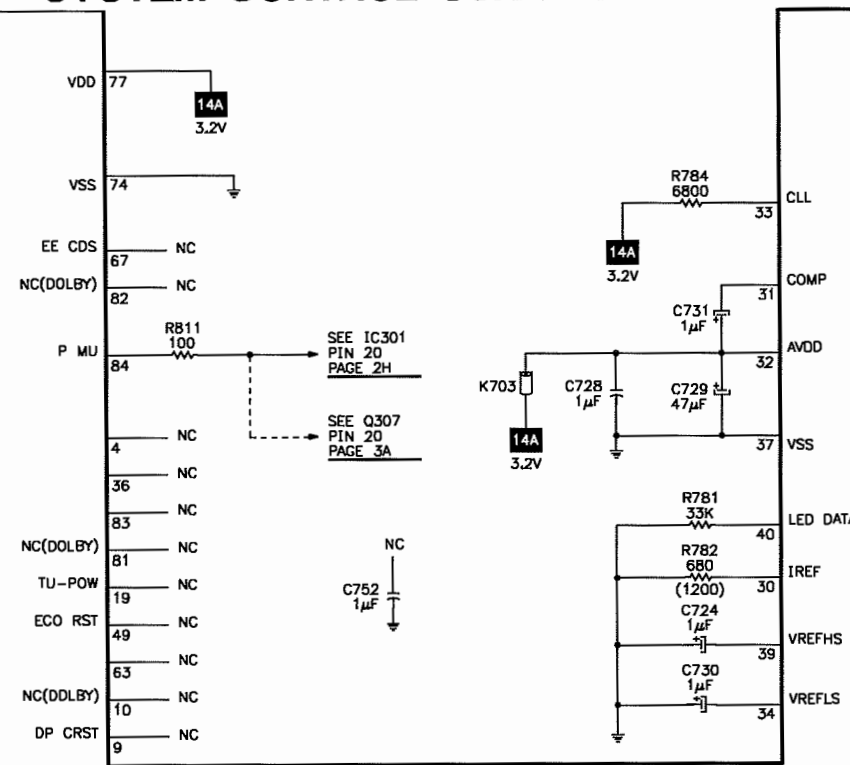
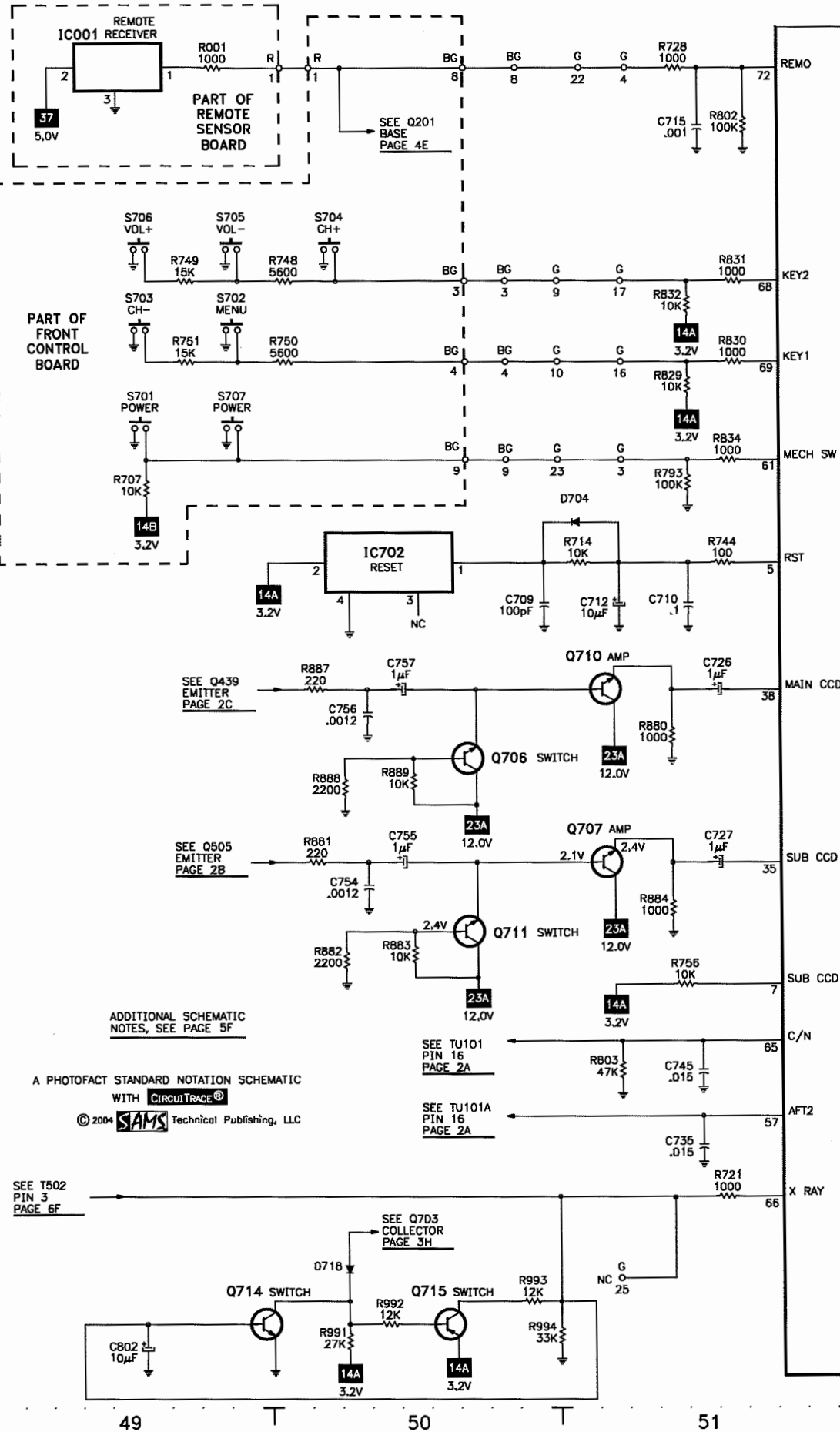


ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 5F

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## SYSTEM CONTROL SCHEMATIC

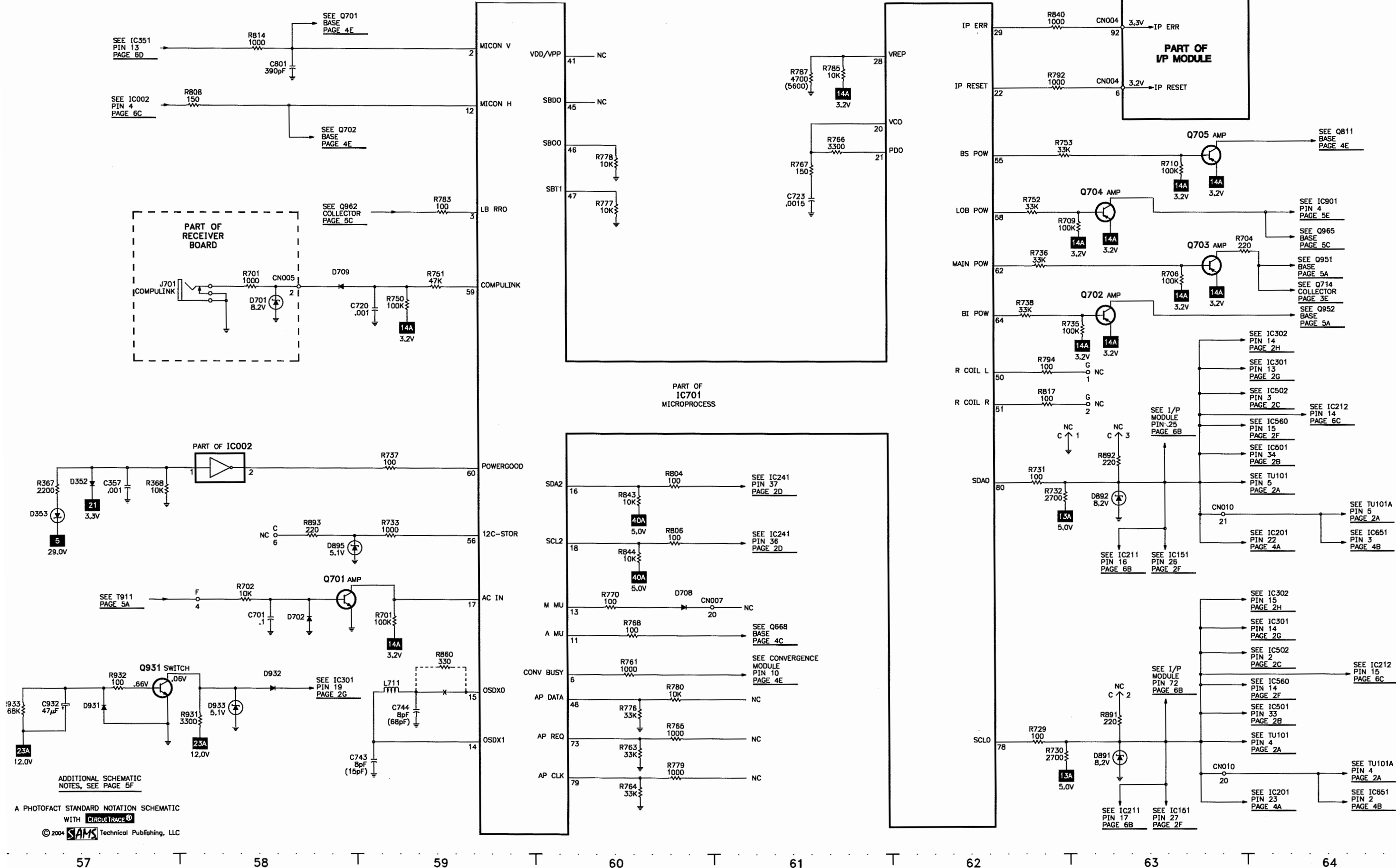
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G

## SYSTEM CONTROL SCHEMATIC continued

H



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 5F

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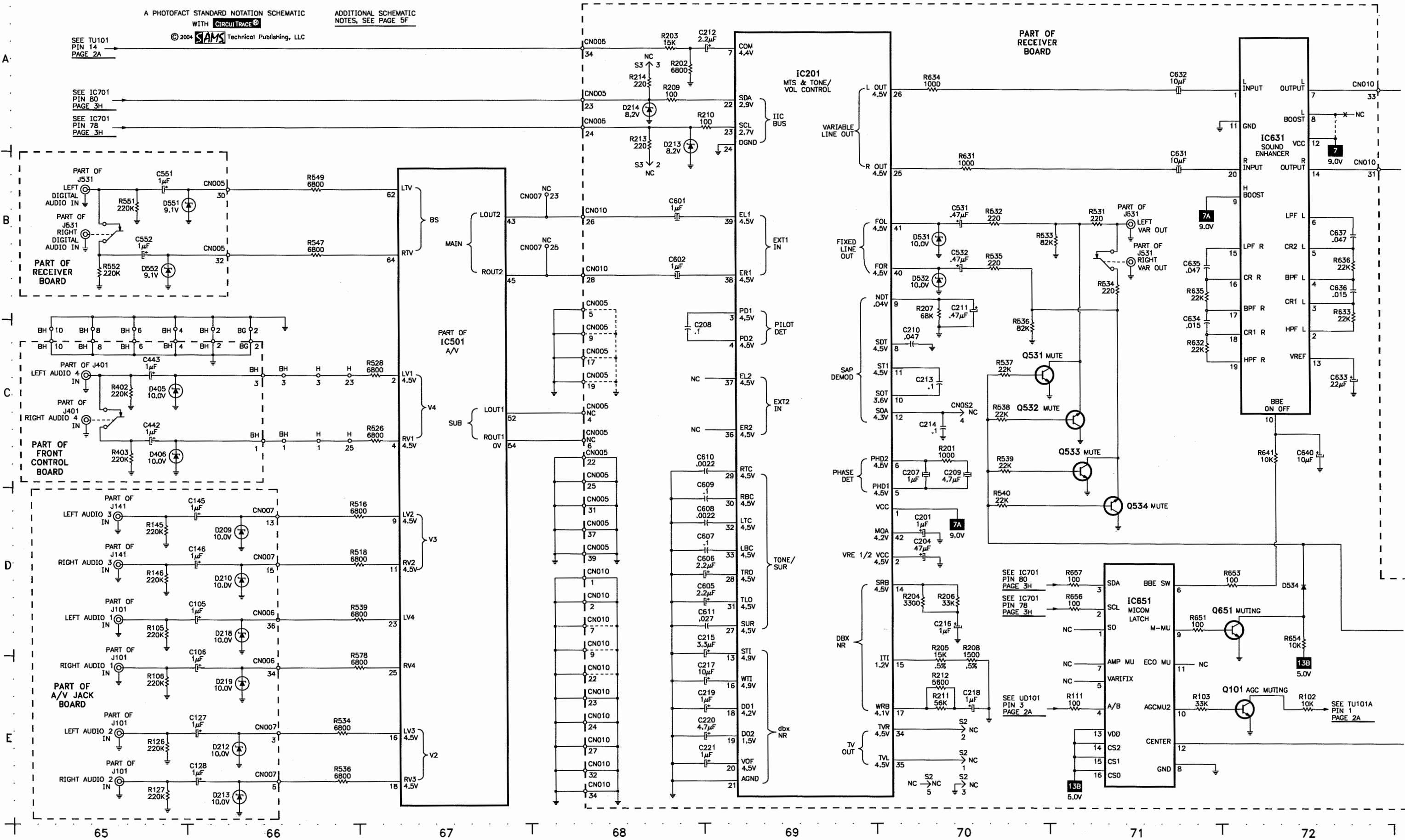
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JVC MODEL AV-48WP30/H-ME (CHASSIS A105)



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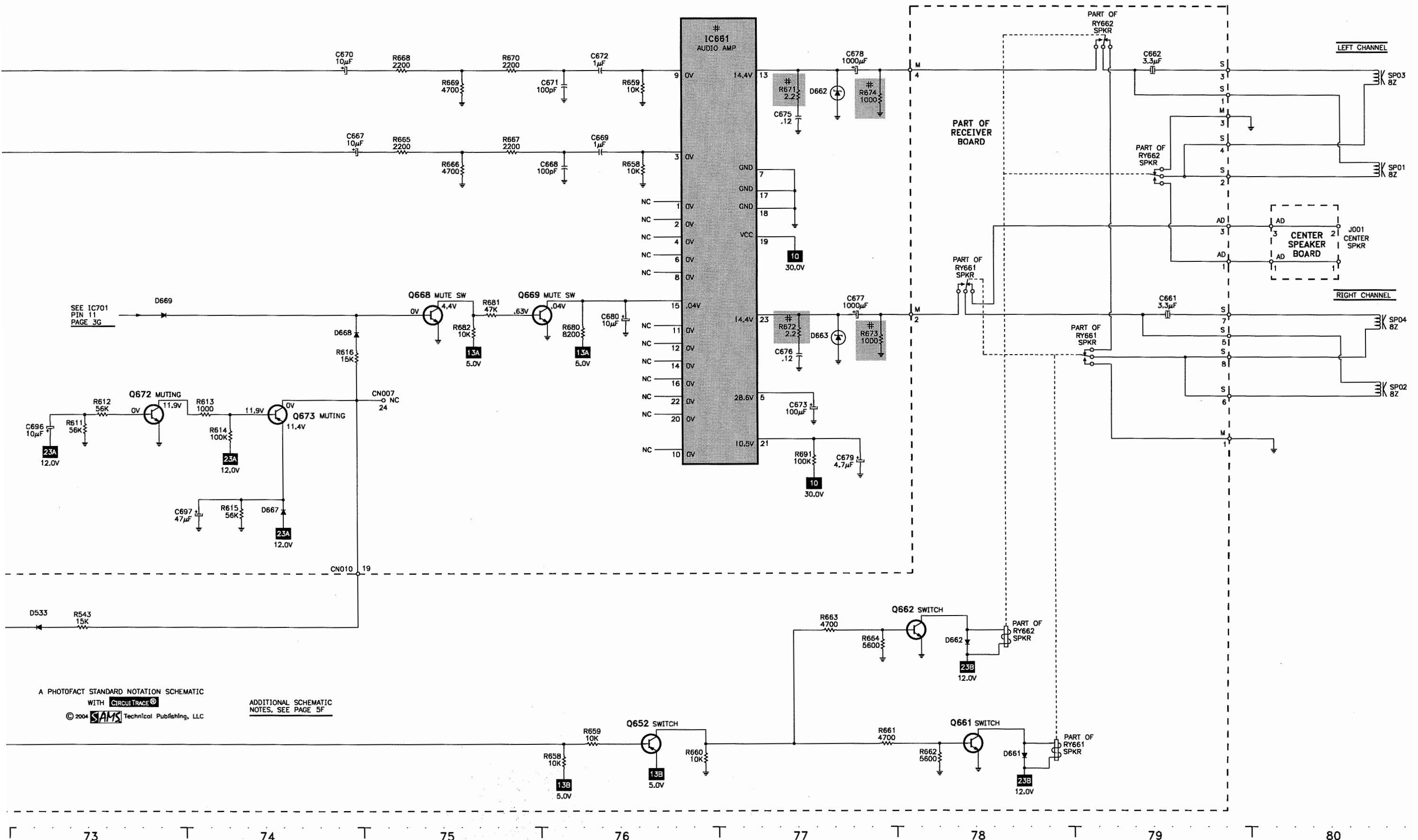
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NOTES, SEE PAGE 5F



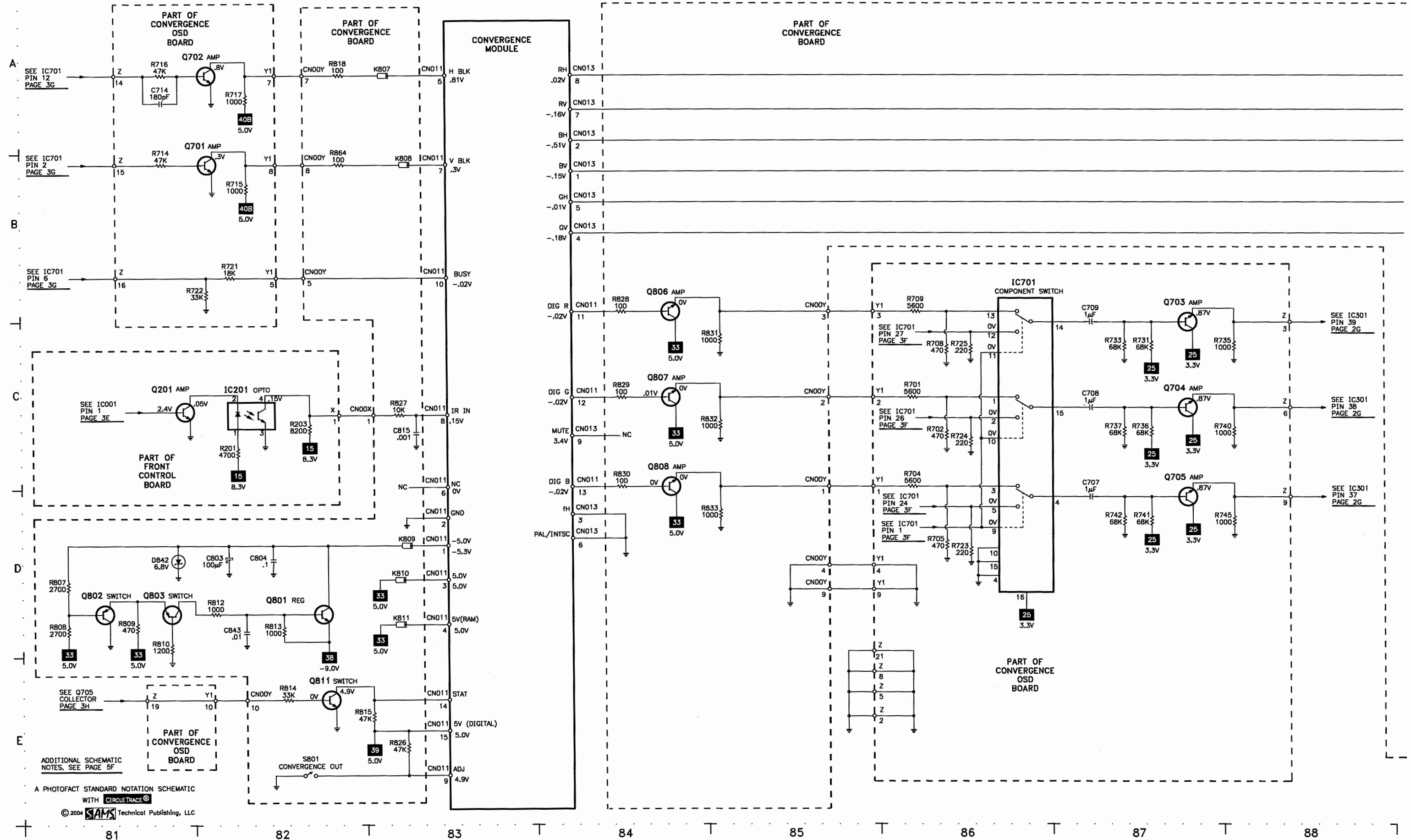
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## AUDIO SCHEMATIC continued

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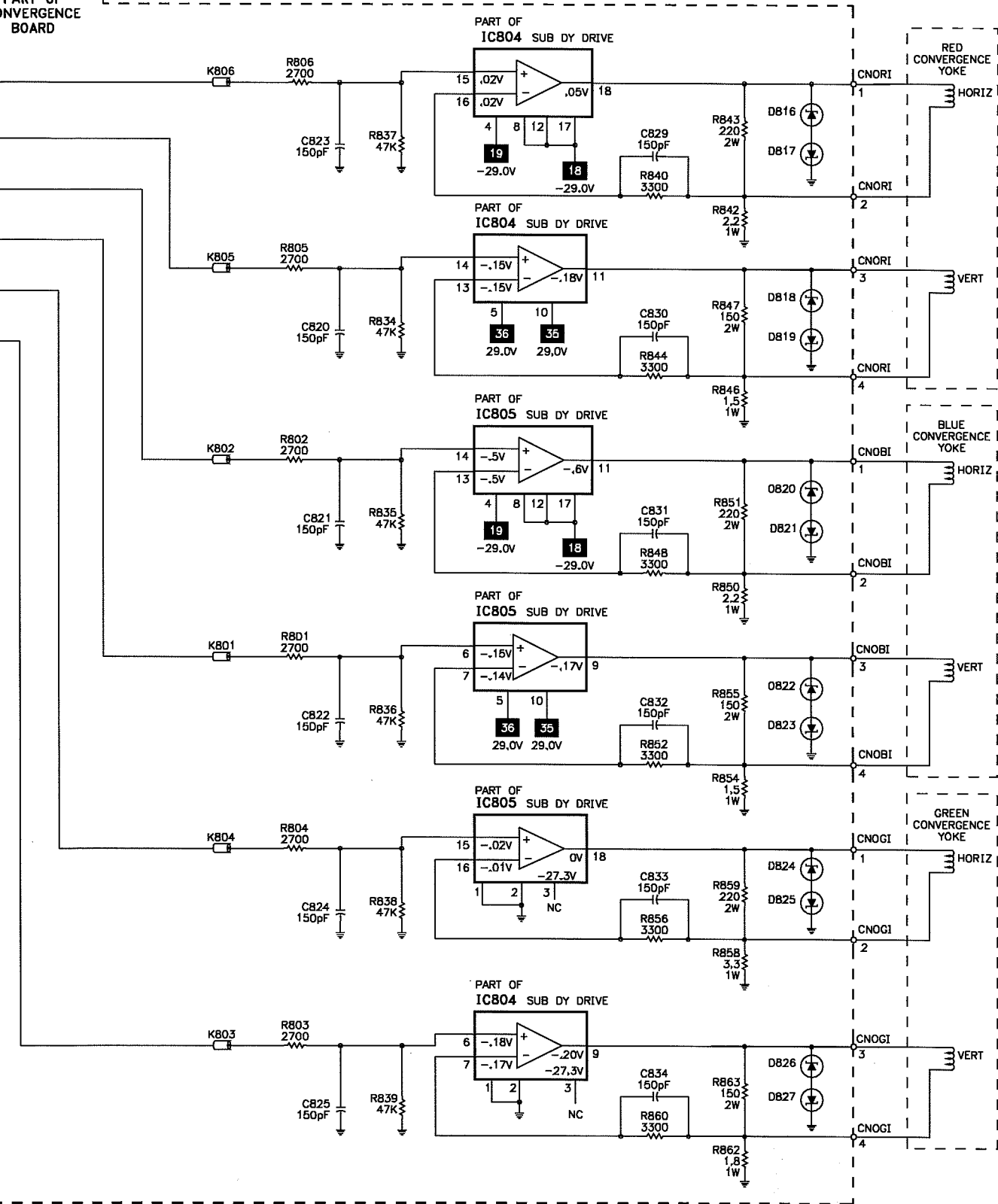


## CONVERGENCE SCHEMATIC



G  
CONVERGENCE SCHEMATIC continued

PART OF  
CONVERGENCE  
BOARD



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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.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570
Inductance Analyzer	LC102
Flyback Yoke Tester	TVA92
Field Strength Meter	SL753
Transistor Tester	TF46
Horizontal Analyzer	HA-2500
Video Analyzer	VG91, TVA92

JVC

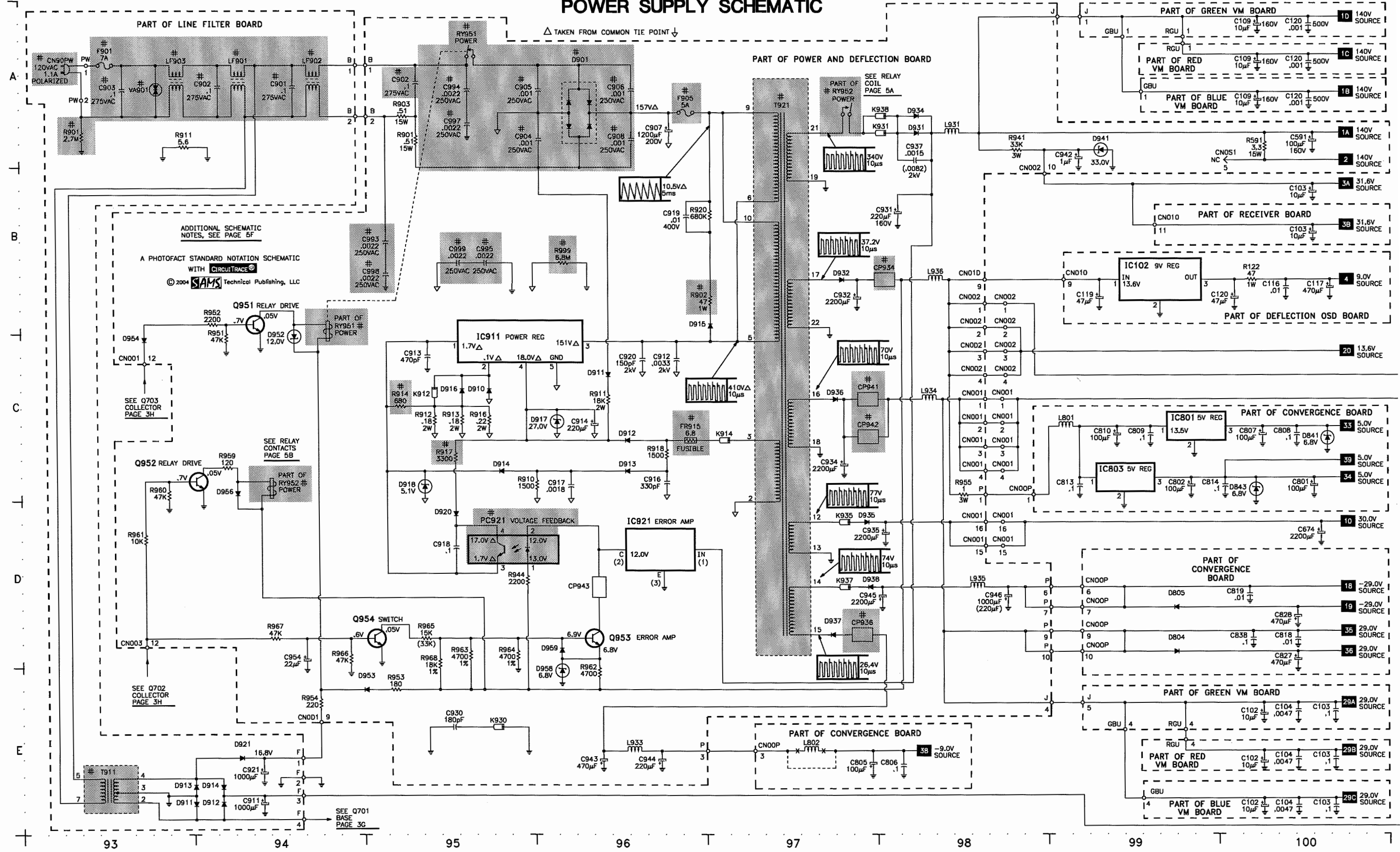
MODEL AV-48WP30/H-ME (CHASSIS A105)



A

B

POWER SUPPLY SCHEMATIC



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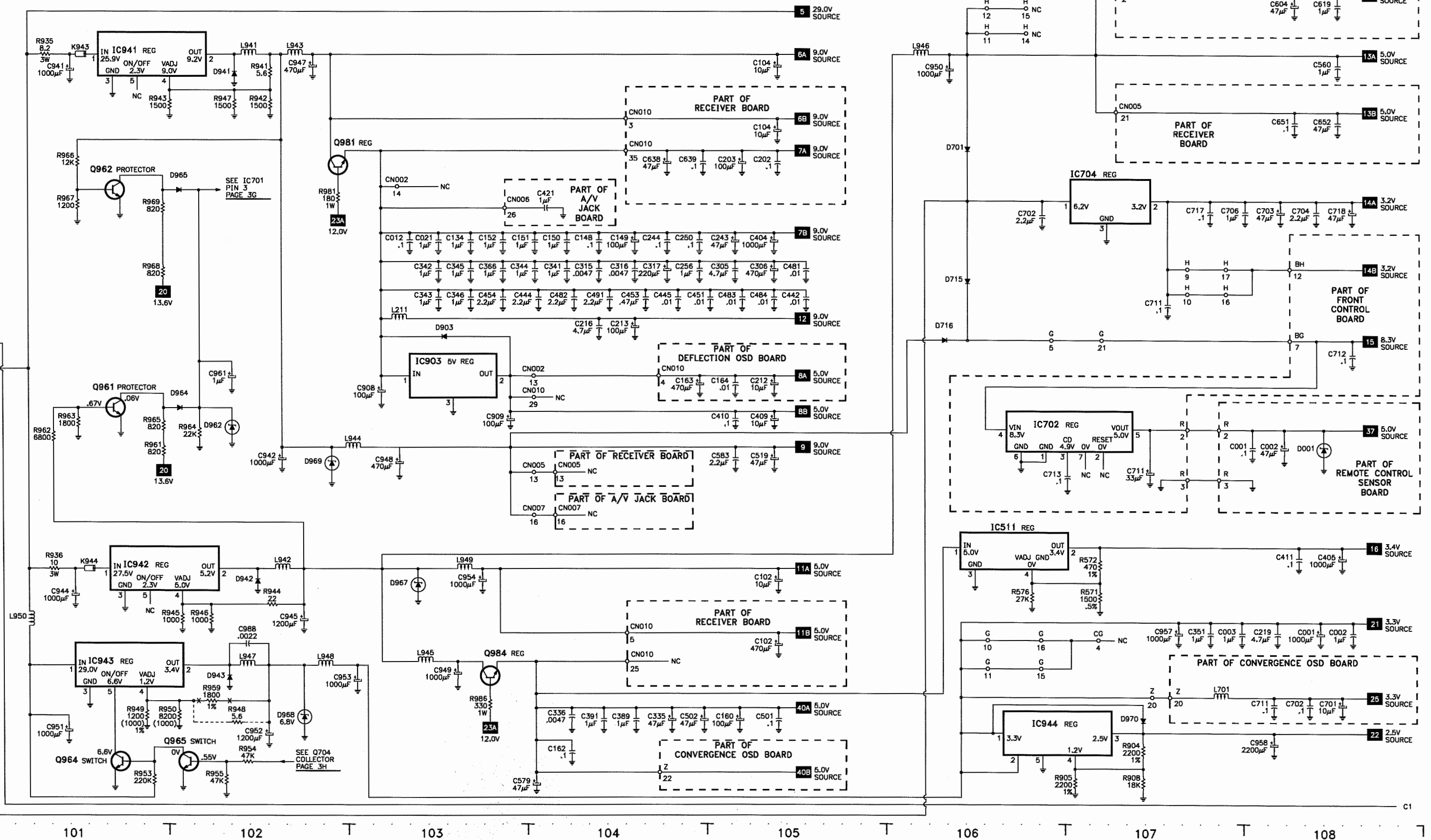
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100

C

POWER SUPPLY SCHEMATIC continued

D



E

## POWER SUPPLY SCHEMATIC continued

F

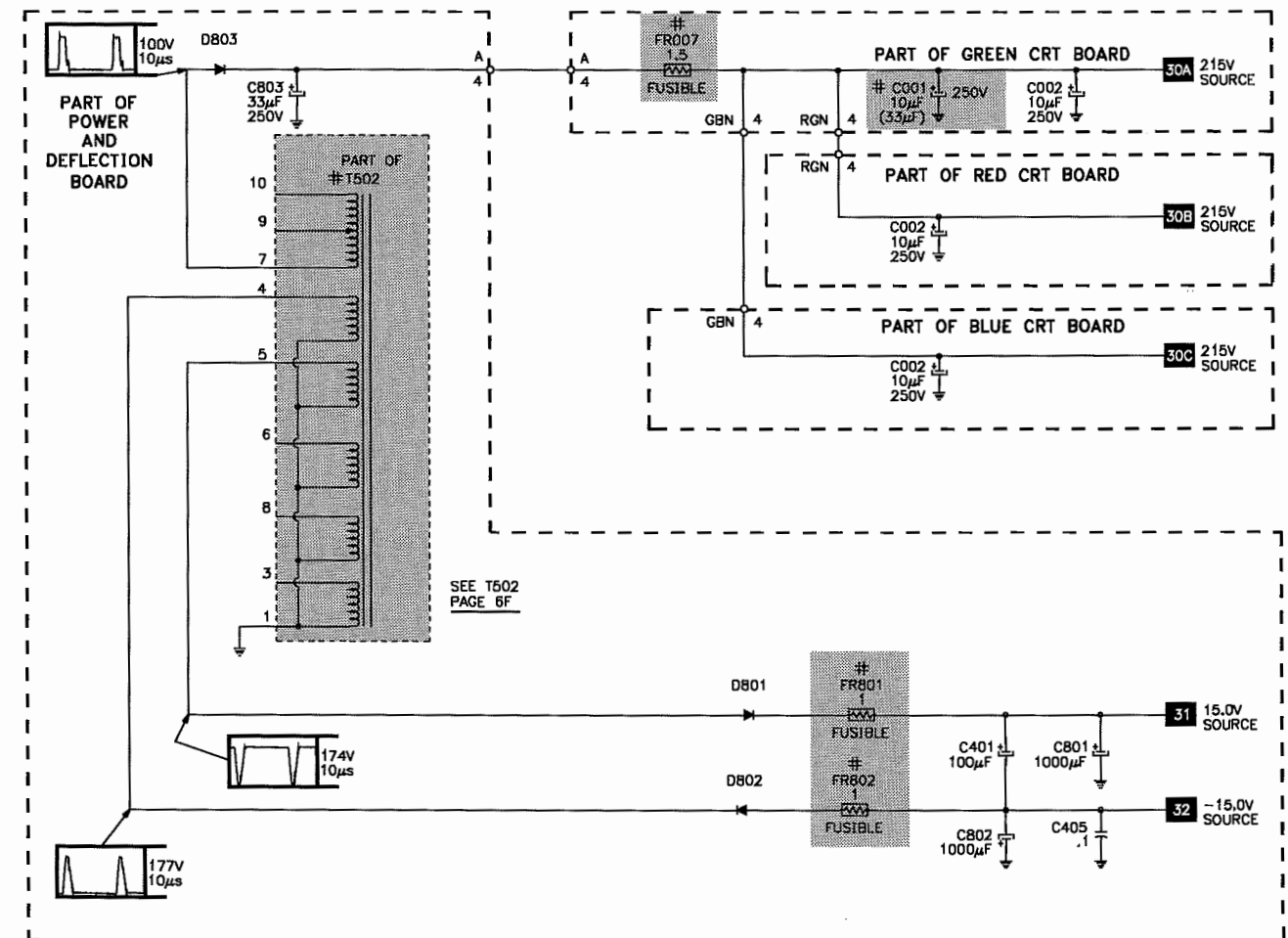
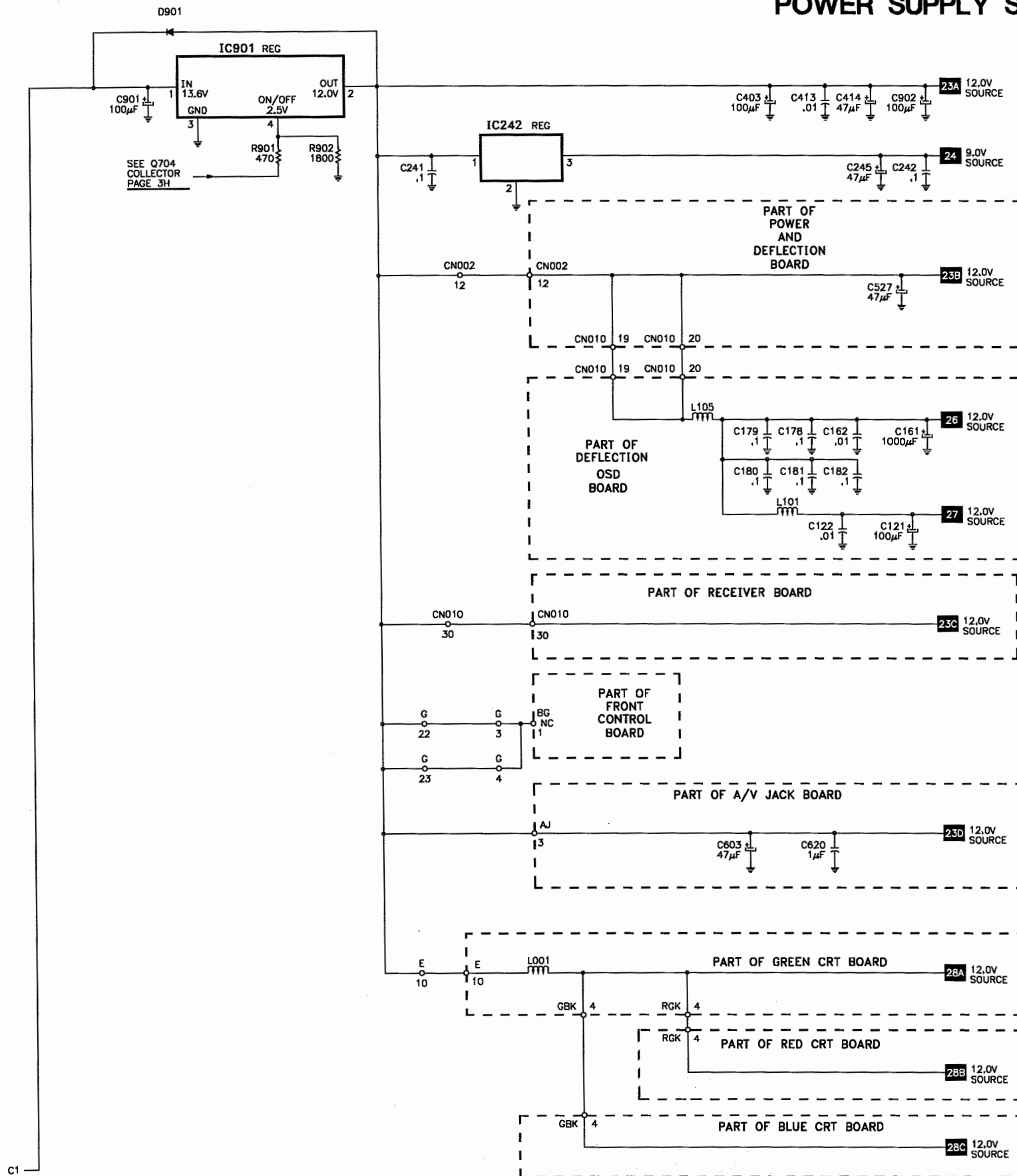
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## SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement part, see parts list.
- Circuitry not used in some versions.
- Circuitry used in some versions.
- ⊥ Ground
- ⏏ Chassis ground
- ∇ Common tie point
- △ Taken from common tie point
- 3 Schematic CIRCUITTRACE® Voltage source tie point.
- A— Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless otherwise noted.  
Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak, Timebase is per division. Waveforms shown at 10 divisions.  
Supply voltages maintained as seen at input.  
Voltages measured with digital meter and a 1000μV RF signal, with colorbar pattern applied to antenna terminal.  
Controls adjusted for normal operation.  
Capacitors are 50 volts or less, 5% or greater unless noted.  
Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.  
Resistors are 1/2W or less, 5% or greater unless noted. Value in ( ) used in some versions.  
Measurements with switching as shown unless noted.  
Rotated voltage shown on zener diodes.

## Н



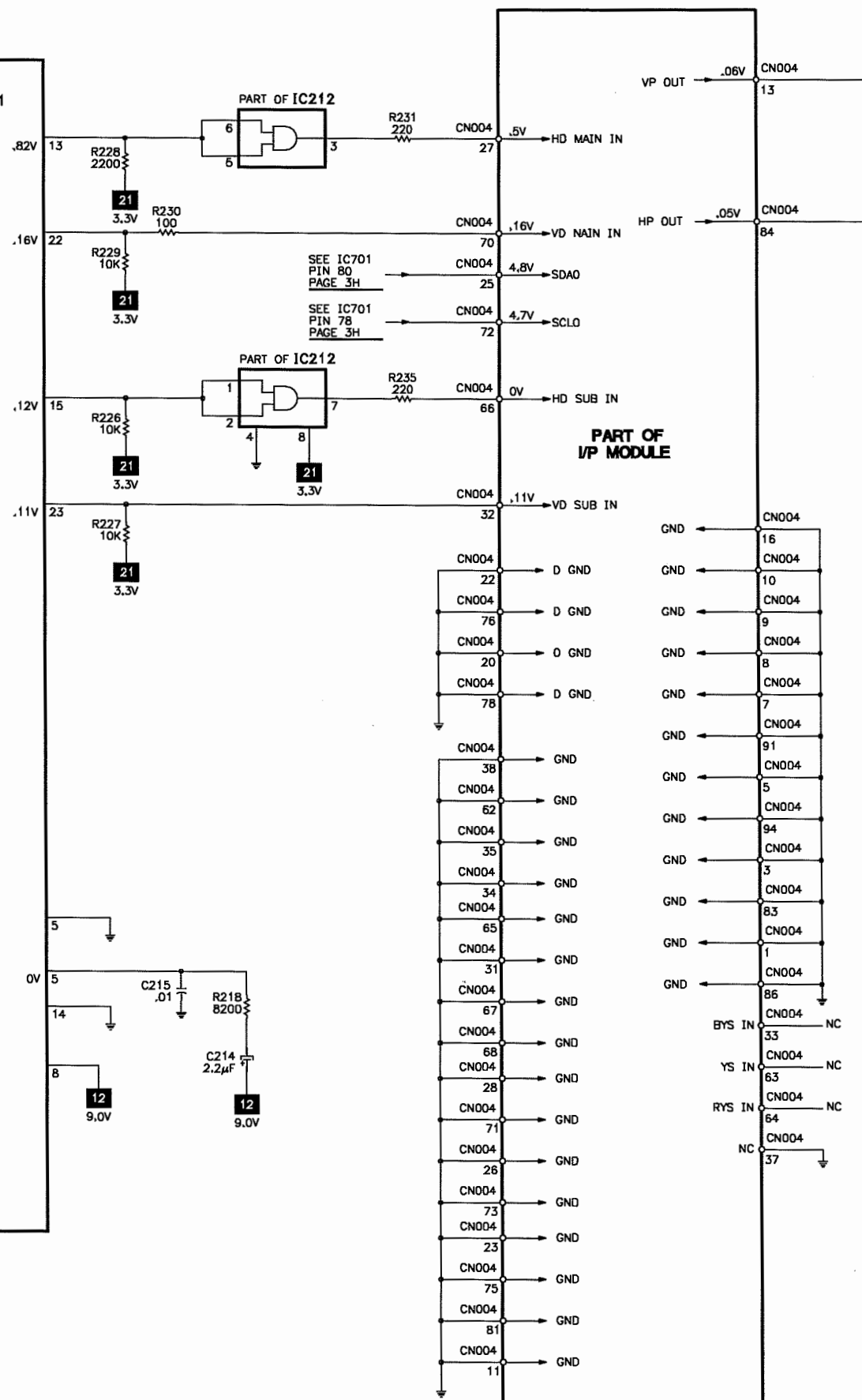
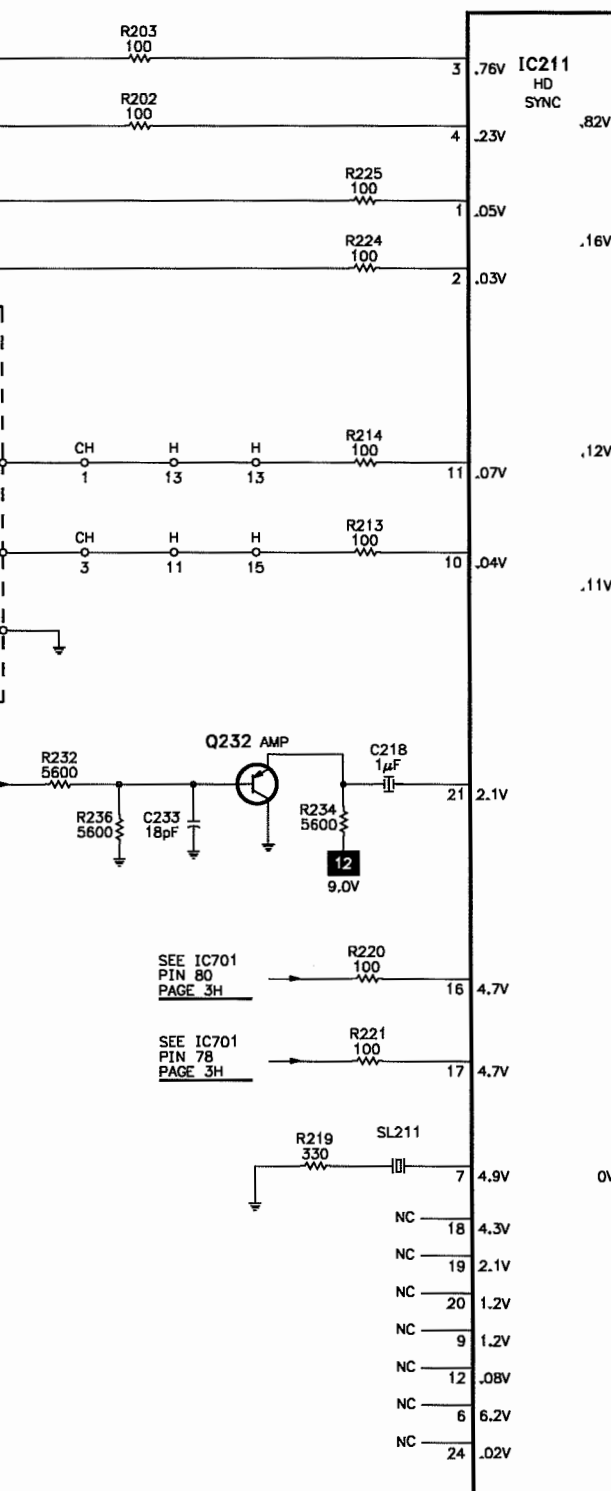
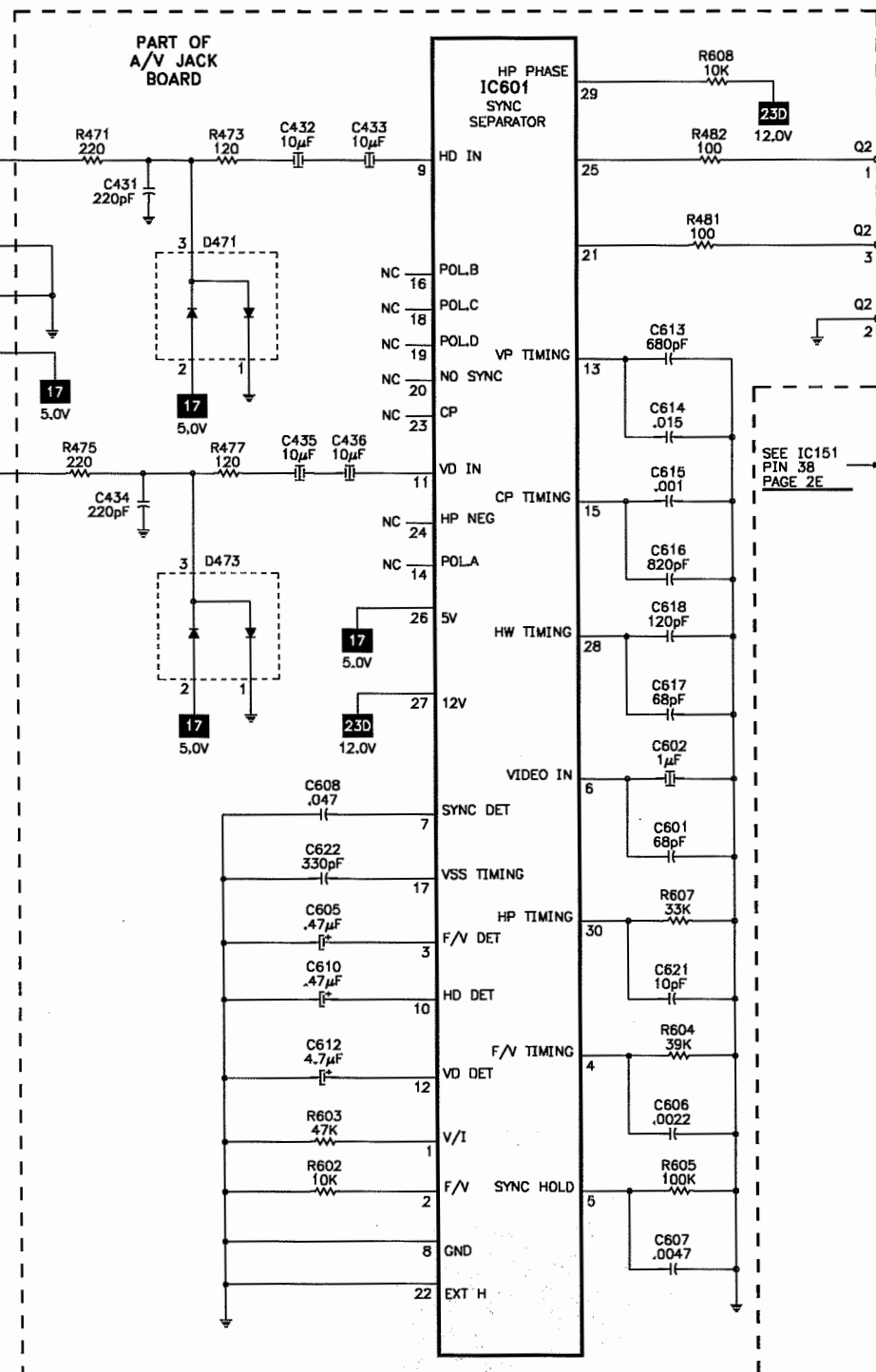
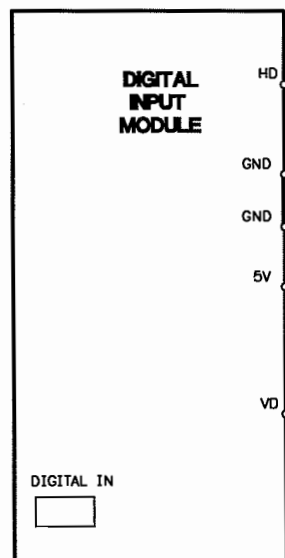
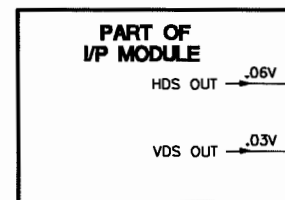
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SEE IC241  
PIN 15  
PAGE 2D

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SEE IC241  
PIN 14  
PAGE 2D

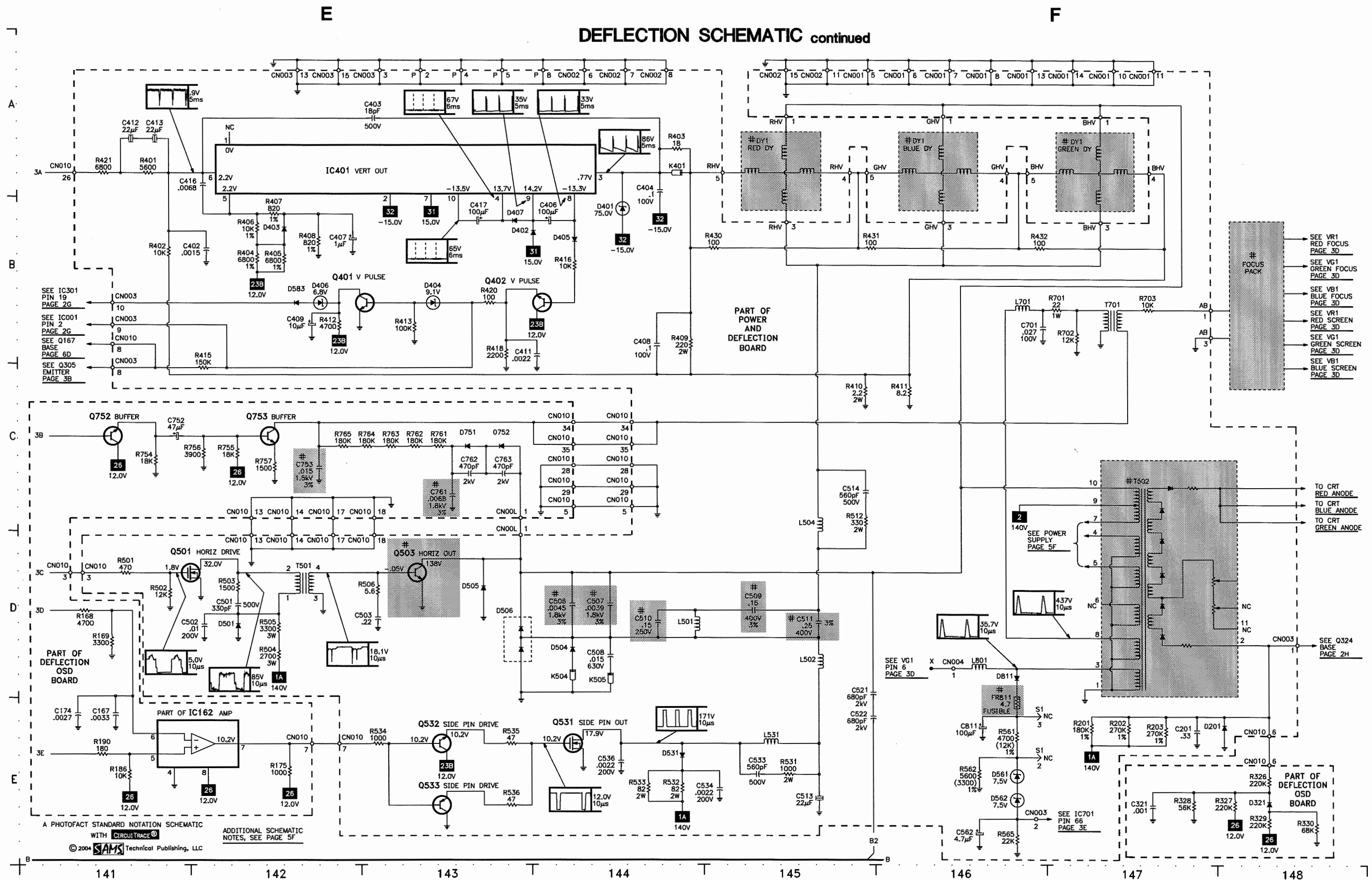


ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 5F

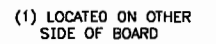
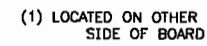
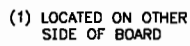
A PHOTOFACT STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE®**  
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# DEFLECTION SCHEMATIC continued

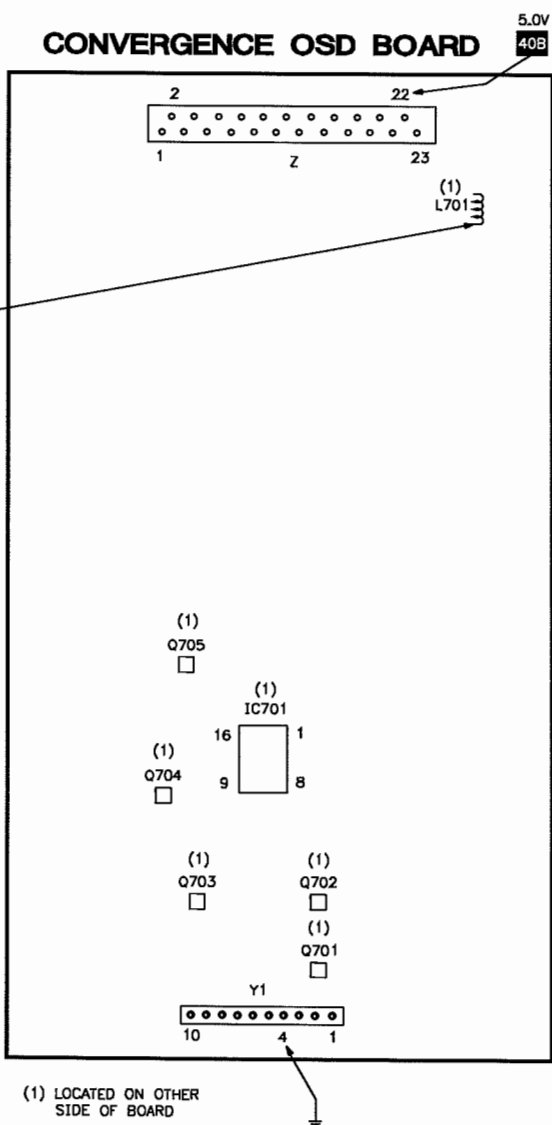
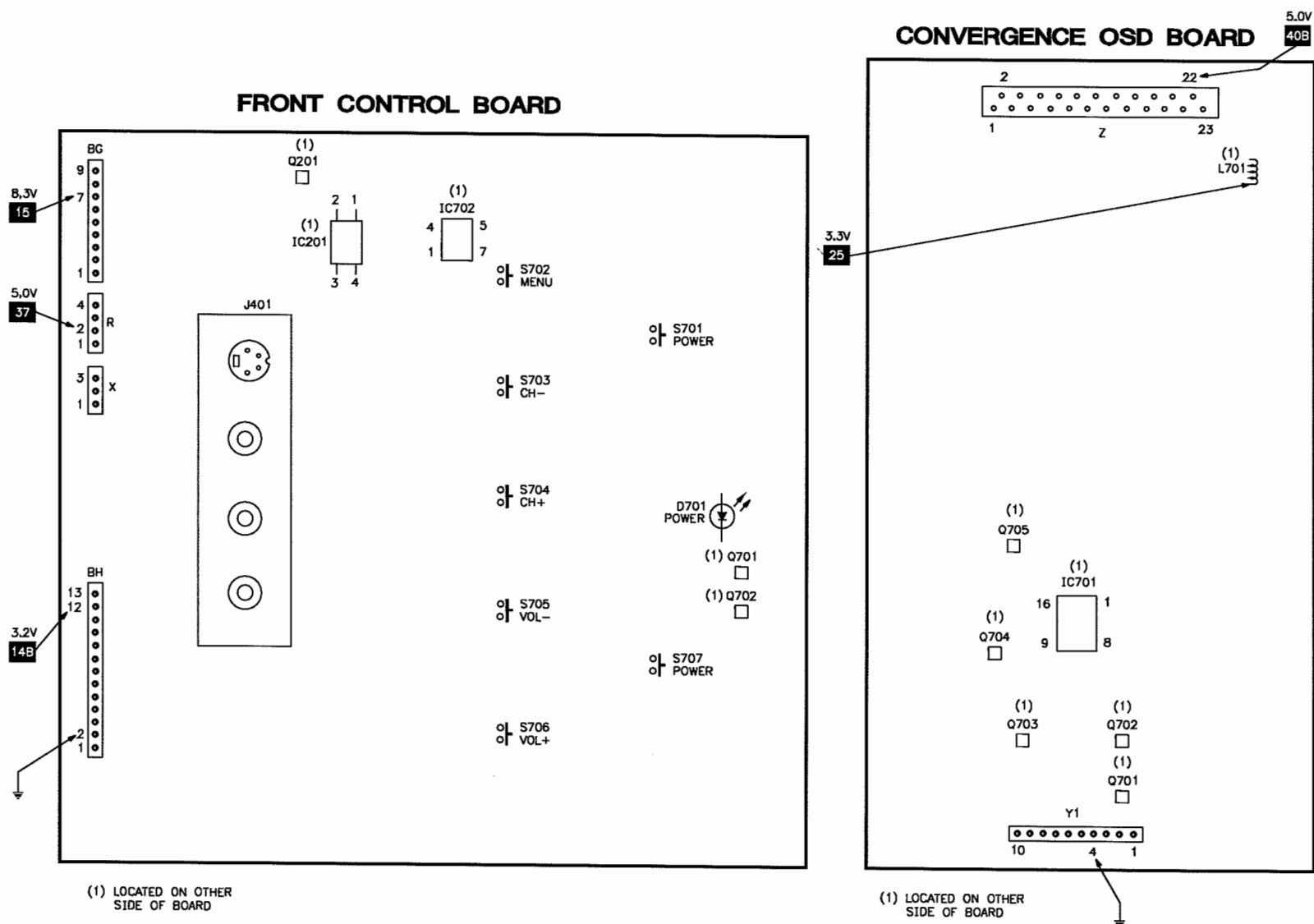
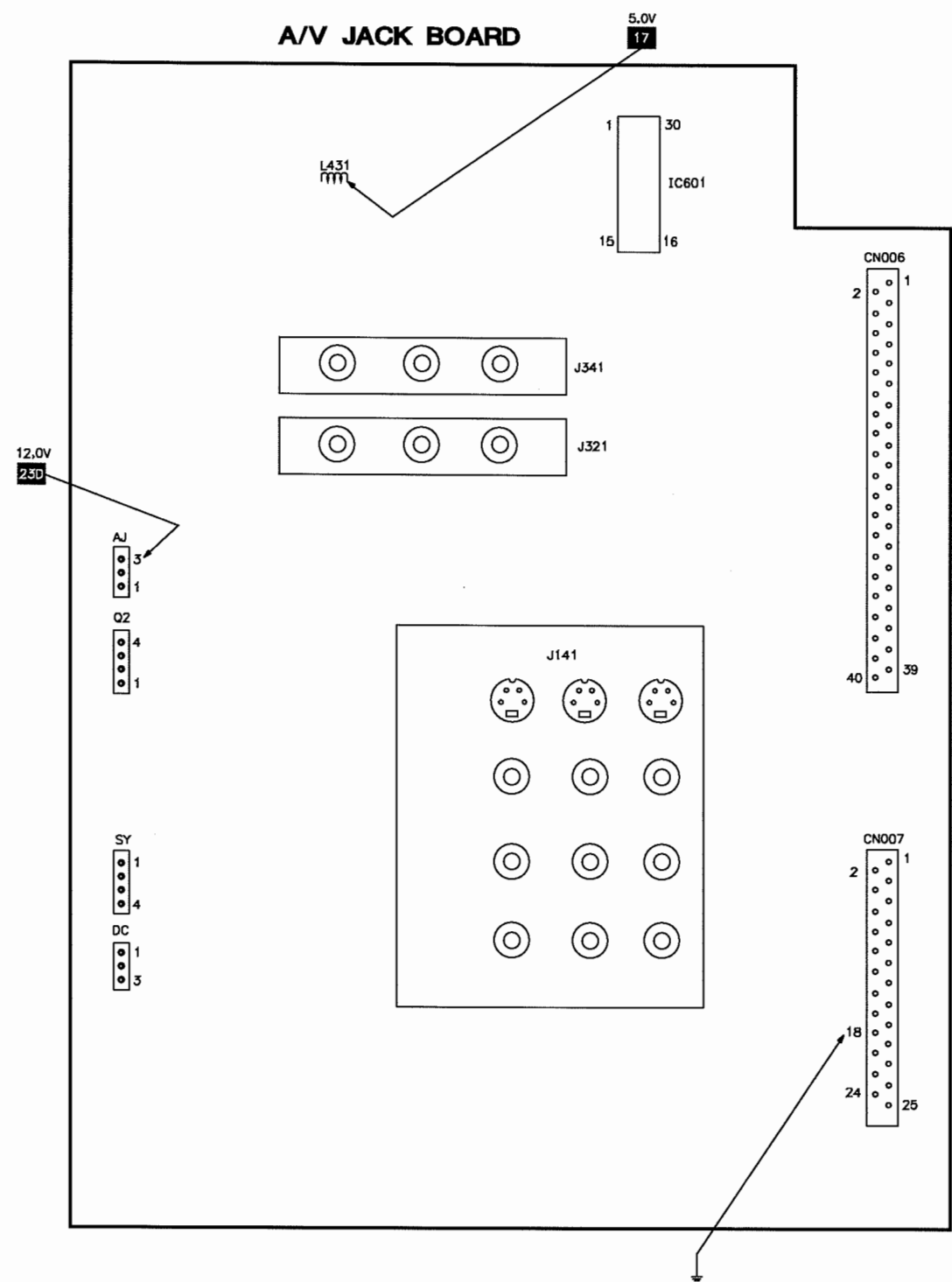


**MODEL AV-48W/P30/H-ME (CHASSIS A105)**

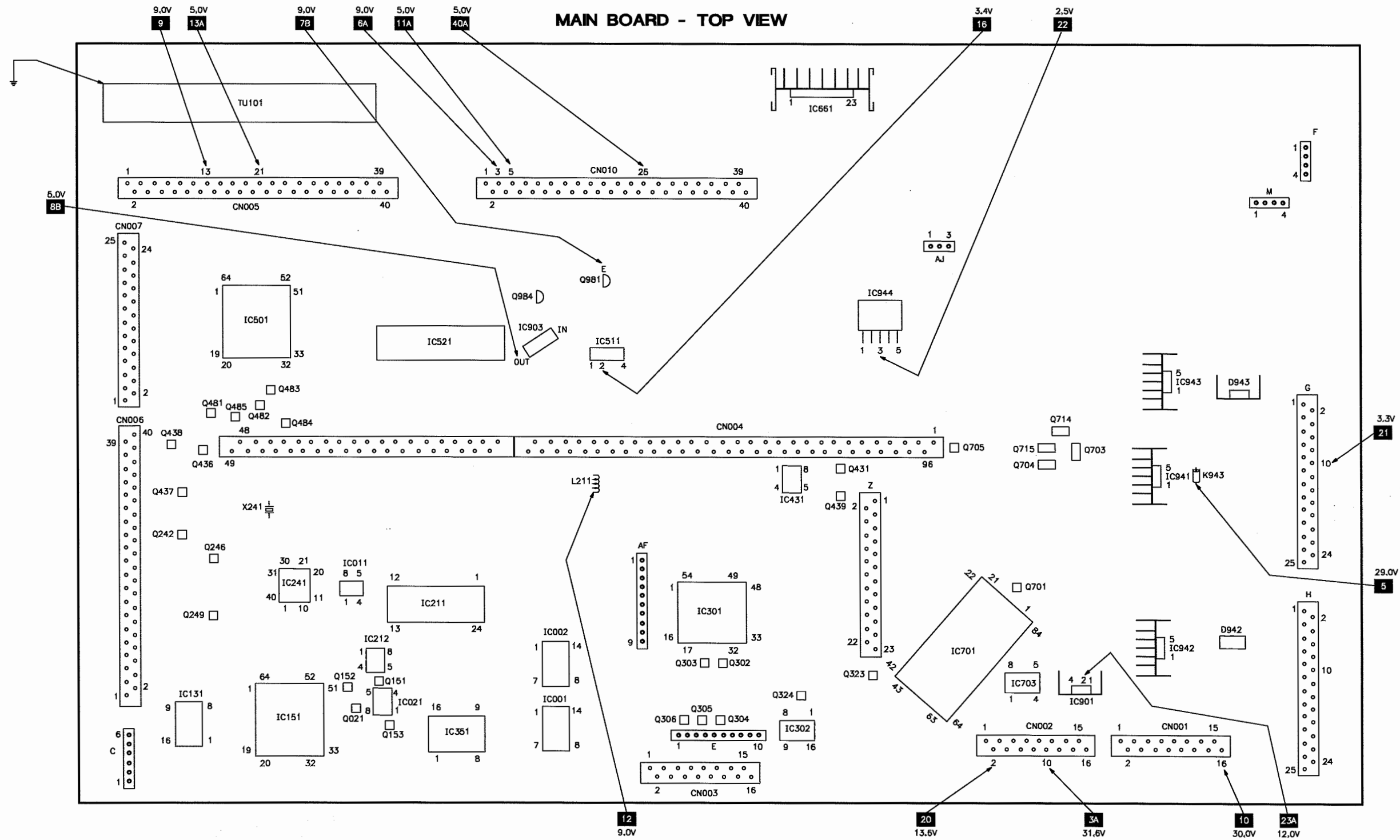




## PLACEMENT CHART continued

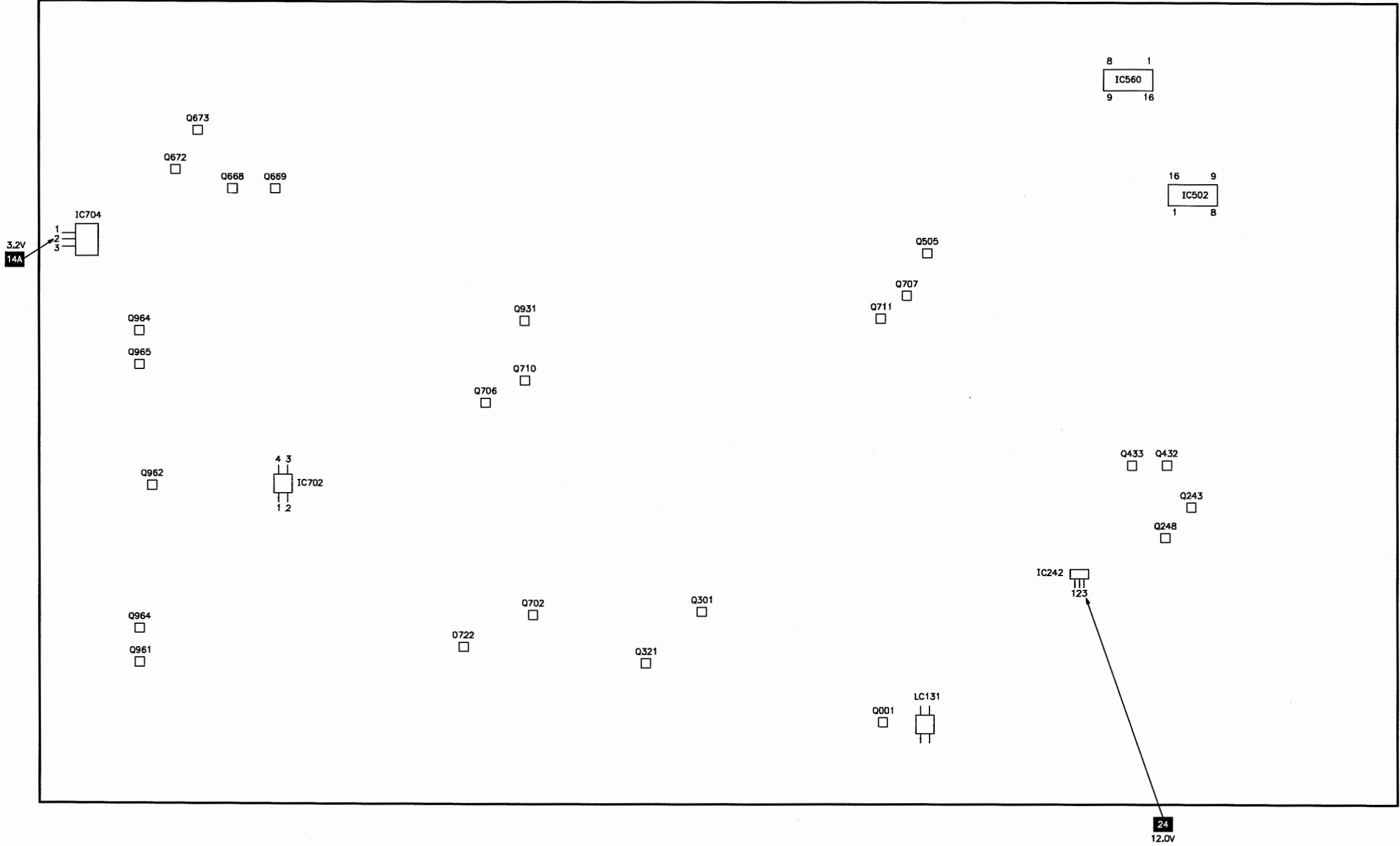


# PLACEMENT CHART continued



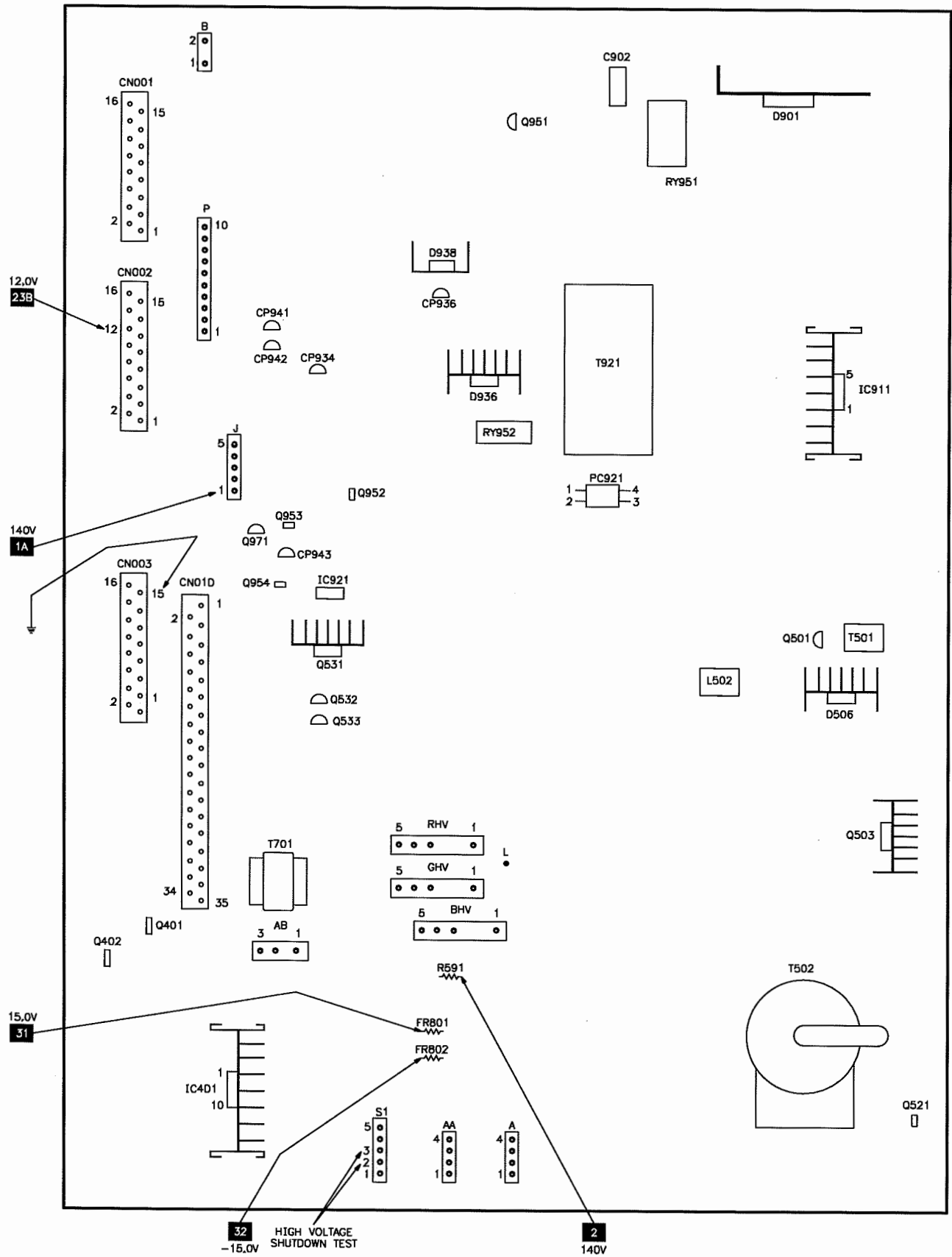
PLACEMENT CHART continued

MAIN BOARD - BOTTOM VIEW

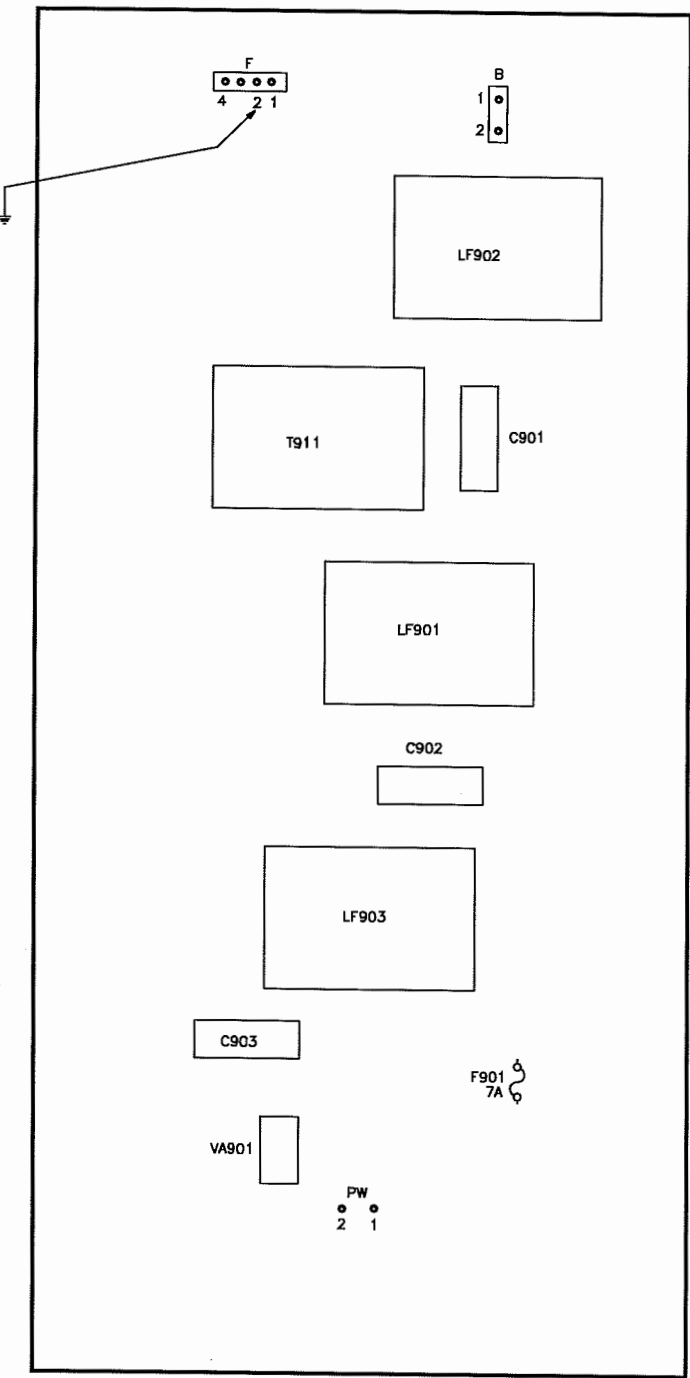


PLACEMENT CHART continued

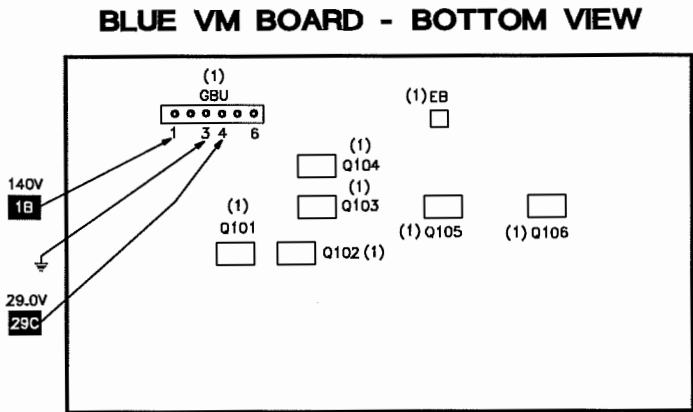
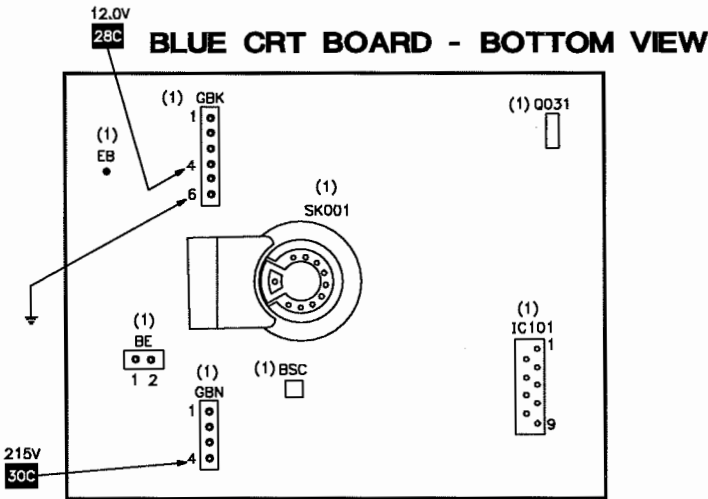
POWER AND DEFLECTION BOARD



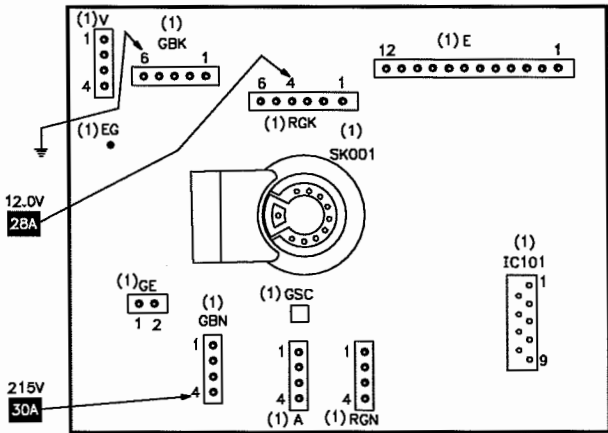
LINE FILTER BOARD



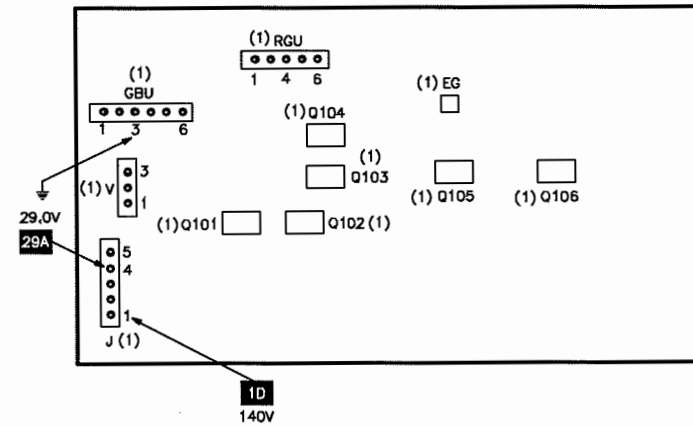
PLACEMENT CHART continued



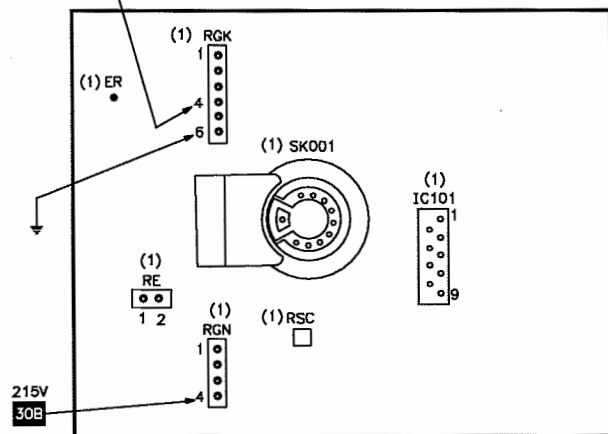
**GREEN CRT BOARD - BOTTOM VIEW**



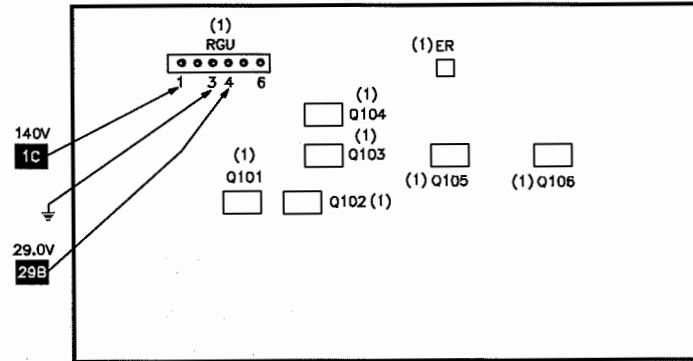
**GREEN VM BOARD - BOTTOM VIEW**



**RED CRT BOARD - BOTTOM VIEW**



**RED VM BOARD - BOTTOM VIEW**



(1) LOCATED ON OTHER SIDE OF BOARD

(1) LOCATED ON OTHER SIDE OF BOARD

**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.
- 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.

**Obtaining Parts**

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:

800-428-7267

**Participating Vendors**

Information on test equipment and replacement parts is listed in these pages for the following participating vendors.

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

MISCELLANEOUS ADJUSTMENTS

NOTE: This receiver employs digital customer controls. Unless otherwise indicated all adjustments were performed with the customer controls at center.

B+ CHECK

Tune in a picture. Connect a digital DC voltmeter to TP-91, pin 5 of connector S1, and ground. With AC line set to 120VAC, voltage should read 140V ±2.0V.

HIGH VOLTAGE CHECK

Tune in a picture. Connect a High Voltage Probe to the CRT Anode. High voltage should read 30kV to 33kV.

SERVICE MENU

To enter the service menu, press the sleep timer key, and while the message “Sleep Timer 0 Min” is displayed on the screen, press the display and video status buttons together. The service menu is displayed as shown below. While in the service menu, use the menu up and down buttons to select and use the menu left and right buttons to adjust. To exit the service menu, press the exit button.

Service Menu Chart

1. PICTURE/SOUND

2. YC SEP (DO NOT ADJUST)

3. LOW LIGHT

4. HIGH LIGHT

5. RF AFC (DO NOT ADJUST)

6. -
7. I<sup>2</sup>C BUS (DO NOT ADJUST)

8. PP

9. IP (DO NOT ADJUST)

0. SELF-CHK

SERVICE MENU ITEMS

NOTE: Never change the initial setting value of any item of those indicated not to adjust.

In case any of the values indicated not to change, is changed by mistake never press the mute button on the remote control, you would be able to recover the initial value by switching the power switch off.

CONVERGENCE

Press the Service Switch S801 on the convergence board, a cross-hatch signal will be displayed on the screen. Press the 100+ button on the remote control to select the Green color, the center line of the vertical and the horizontal lines of the cross hatch signal will be flashing. If the menu button on the remote control is pressed a green cross hatch pattern will be displayed on the screen. Pressing the buttons 2(up) / 4(left) / 5(down) / 6(right), will move the flashing point on the crosshatch pattern. Use the function buttons Channel up or down, and Volume up or down to adjust the convergence at the flashing point. Press the Index button to do an interpolation process, press the Select button twice to save the changes into memory. Pressing the 0 button on the remote control will select the Red color, and the center lines vertical and horizontal will be flashing, repeat the process to adjust the Red convergence. Pressing the Return+ button on the remote control will select the Blue color, and the center lines vertical and horizontal will be flashing, repeat the process to adjust the Blue convergence. After completing the process press the mute button on the remote control to save changes.

Press the mute button on the remote control to save changes. Press the Service Switch S801 on the convergence board to return to normal.

DISASSEMBLY

It is very important to regard this Notice. Prior to disassembly, unplug the power cord from AC outlet, then short pins 1, and 2 of connector SB on the digital input model. On reassembly remove the short of pins 1, and 2 on connector SB on the digital input model. Do not turn power On until the rear panel is inserted into the cabinet.

To remove the speaker grille, remove four screws from the rear side. Remove four screws that attaching the front control box to the speaker grille, then remove the speaker grille.

When checking the main board, and the deflection board, disconnect the speakers plugs from both sides of the main unit, then pull out the main unit from the rear side of the cabinet. Raise the main unit on the service bench with the high voltage divider side down for the sake of convenience.

When wire clamps are removed during working on the main unit, they should be restored to their original positions after completing the service on the unit.

PICTURE/SOUND MODE

Select Picture / Sound Mode from the service menu.

Picture / Sound Mode Menu Chart

No.	Adjustment	Range	Initial Value	Onset Value
A01	NOISE DET	000 / 001	000	001
A02	INPUT LEVEL	000 ~ 063	027	019
A03	FH MONITOR	000 / 001	000	000
A04	STEREO VCO	000 ~ 063	035	040
A05	PILOT CAN	000 / 001	000	000
A06	FILTER	000 ~ 063	032	036
A07	LOW SEP	000 ~ 063	028	034
A08	HI SEP	000 ~ 063	025	038
A09	5FH MON	000 / 001	000	000
A10	SAP VCO	000 ~ 063	030	035
A11	INPUT GAIN	000 / 001	000	000
A12	FIL OFFSET	-128 ~ +127	000	000
A13	BBE BASS	-128 ~ +127	+007	+007
A14	BBE TREBLE	-128 ~ +127	000	000
A15	BASS	-128 ~ +127	-012	-012
A16	TREBLE	-128 ~ +127	-008	-008
S01	SUB COLOR	000 ~ 127	078	073
S02	SUB TINT	000 ~ 127	078	072
S03	SUB BRIGHT	000 ~ 255	134	173
S04	SUB CONTRAST	000 ~ 127	079	049
S05	SUB Bright Offset	-128 ~ +127	---	---
S06	SUB Cont Offset	-128 ~ +127	---	---
S07	B-Y Demodulation	000 ~ 063	005	012
S08	R-Y Demodulation	000 ~ 007	007	007
S09	G-Y Matrix SW	000 ~ 003	001	001
S10	R DRIVE	000 ~ 255	---	---
S11	R DRIVE Offset	-128 ~ +127	+003	+004
S12	B DRIVE	000 ~ 255	---	---
S13	B DRIVE Offset	-128 ~ +127	+006	+005
S14	R CUT OFF	000 ~ 255	211	082
S15	R CUT OFF Offset	-128 ~ +127	000	000
S16	G CUT OFF	000 ~ 255	050	040
S17	G CUT OFF Offset	-128 ~ +127	000	000
S18	B CUT OFF	000 ~ 255	052	085
S19	B CUT OFF Offset	-128 ~ +127	000	000
S20	R CUT OFF SW	000 ~ 003	000	001
S21	B CUT OFF SW	000 ~ 003	000	001
S22	Blk Grd Corr Start Lvl	000 ~ 015	015	015

Picture / Sound Mode Menu Chart continued

No.	Adjustment	Range	Initial Value	Onset Value
S23	Blk Grd Corr Gain	000 ~ 015	008	008
S24	Wht Grd Corr Start Lvl	000 ~ 015	000	000
S25	Wht Grd Corr Gain	000 ~ 015	015	015
S26	Wht Chara Corr Start Lvl	000 ~ 015	002	002
S27	Wht Chara Corr Gain	000 ~ 015	000	004
S28	ABL Gain	000 ~ 015	015	015
S29	ABL Start	000 ~ 015	015	015
S30	ACL Gain	000 ~ 015	015	015
S31	ACL Start	000 ~ 015	000	000
S32	Contrast Link	000 / 001	000	000
S33	Blk Grd Corr Off	000 / 001	000	000
S34	Wht Grd Corr Off	000 / 001	000	000
S35	TINT HD / NTSC	000 / 001	001	001
S36	ABL OFF	000 / 001	000	000
S37	ACL OFF	000 / 001	000	000
S38	DC Transmit Polarity	000 / 001	001	001
S39	DC Transmit Correction	000 / 001	000	000
S40	BLANKING ON / OFF	000 / 001	000	000
S41	DC Reproduce Rate	000 ~ 255	160	160
S42	ACL Control	000 ~ 255	160	072
S43	Contrast Lower Limit	-128 ~ +127	-070	-030
S44	Contrast Upper Limit	-128 ~ +127	+017	+013
S45	Bright Lower Limit	-128 ~ +127	-020	-020
S46	EE Theater Bright	-128 ~ +127	000	000
S47	EE Theater Contrast	-128 ~ +127	000	+020
S48	Bright EE CONT Corr	000 ~ 031	008	008
S49	Refrain EE CONT Corr	000 ~ 031	027	027
S50	Refrain EE Brt Offset Corr	000 ~ 127	004	004
S51	Bright EE ACL Corr Coeff	000 ~ 255	085	085
S52	Refrain EE ACL Corr Coeff	000 ~ 255	140	140
S53	Not Used	000 / 001	000	000
S54	Not Used	000 / 001	000	000
S55	Not Used	000 / 001	000	000
S56	Not Used	000 / 001	000	000
S57	Not Used	000 / 001	000	000
D01	V. Height	000 ~ 127	027	030
D02	EW Parabola	000 ~ 063	022	019
D03	H Width	000 ~ 063	051	034
D04	V S-Correction	000 ~ 063	040	040
D05	V Linearity	000 ~ 063	039	037
D06	V Center	000 ~ 063	023	026
D07	TRAPEZ	000 ~ 063	029	028
D08	EW Corner Lower	000 ~ 015	008	008
D09	EW Corner Upper	000 ~ 015	008	008
D10	V EHT	000 ~ 007	003	004
D11	H EHT	000 ~ 007	001	001
D12	EHT Gain	000 ~ 007	002	000
D13	Adjustment	000 ~ 015	000	000
D14	H Center	000 ~ 255	172	189
D15	H Freq Adjustment	000 ~ 255	141	227
D16	H Blanking	000 ~ 255	080	080
D17	OSD Offset	000 ~ 127	044	063
D18	Compulsion Twin Screen	000 ~ 007	000	000
D19	Compulsion Def Reset Output	000 / 001	000	000
D20	Compulsion 1080i	000 / 001	000	000
F01	EEPROM Ver 1	000 ~ 255	051	051
F02	EEPROM Ver 2	000 ~ 255	001	005
F03	H LINE ON (Bright)	000 ~ 255	133	133
F04	H LINE OFF (Bright)	000 ~ 255	140	179

Picture / Sound Mode Menu Chart continued

No.	Adjustment	Range	Initial Value	Onset Value
F05	H LINE Contrast	000 ~ 127	000	000
F06	C38 / C41 SW	000 / 001	001	001
F07	MODEL SELECT	000 ~ 255	000	000
F08	-	---	---	000
F09	Auto Scroll Adjust 1	000 ~ 015	002	002
F10	Auto Scroll Adjust 2	000 ~ 015	004	004
F11	Auto Scroll Adjust 3	000 ~ 015	004	004
F12	Auto Scroll Adjust 4	000 ~ 015	005	005
F13	Auto Scroll Adjust 5	000 ~ 015	006	006
F14	Auto Scroll Adjust 6	000 ~ 015	007	007
F15	Auto Scroll Adjust 7	000 ~ 015	007	007
F16	Not Used	000 / 001	000	000
F17	Not Used	000 / 001	000	000
F18	Not Used	000 / 001	000	000
F19	Not Used	000 / 001	000	000
F20	Not Used	000 / 001	000	000
F21	Not Used	000 / 001	000	000
F22	Not Used	000 / 001	000	000
F23	Not Used	000 / 001	000	000
F24	V-CHIP On / Off (Canada)	000 / 001	000	001
F25	Earth Magnetic Corr. Picture	000 ~ 127	127	127
F26	OSD Offset (480p / 720p)	000 ~ 063	033	033
F27	OSD Offset (1080i/HDCP1080i)	000 ~ 063	018	018
F28	CH Program Search Cycle	000 ~ 255	011	011
F29	PIP Function On / Off	000 / 001	000	000
F30	PIP 2 Picture	000 / 001	000	000
F31	V-CHIP On / Off	000 / 001	001	001
F32	Direct Select 2 Picture	000 / 001	000	000
F33	Caption OSD OSC Select	000 ~ 007	002	002
F34	4 Pic High Speed Search	000 ~ 255	040	255
F35	4 Pic AGC Refresh	000 ~ 255	000	000
F36	4 Pic High Speed Wait 1	000 ~ 255	040	040
F37	4 Pic High Speed Wait 2	000 ~ 255	020	020
F38	4 Pic High Speed Wait 3	000 ~ 255	040	040
F39	VSM Shipping Mode	000 / 001	000	000
F40	DVD	000 ~ 003	000	000
F41	2 Picture 16:9 Mode	000 / 001	000	000
F42	V/C Decode H Mask Setting	000 ~ 003	000	002
F43	Power Off White	000 / 001	000	000
F44	White Back On / Off	000 / 001	000	000
F45	-	---	---	000
F46	-	---	---	000
F47	-	---	---	000
F48	-	---	---	000
F49	-	---	---	000
F50	SEP LEVEL	000 ~ 003	000	000
F51	CLAMP PLUS	000 / 001	000	000
F52	HD Phase	000 ~ 063	038	038
F53	S / N (RF) Corr Width	000 ~ 255	000	000
F54	S / N (RF) Corr Start	000 ~ 255	000	000
F55	S / N (BS) Corr Width	000 ~ 255	000	000
F56	S / N (BS) Corr Start	000 ~ 255	000	000
F57	S / N (COMP) Corr Width	000 ~ 255	000	000
F58	S / N (COMP) Corr Start	000 ~ 255	000	000
F59	S / N (S) Corr Width	000 ~ 255	000	000
F60	S / N (S) Corr Start	000 ~ 255	000	000
F61	OCD Offset (Horiz)	000 ~ 127	048	051
F62	ATT Gain	000 / 001	000	000
F63	V Height Offset	-128 ~ +127	000	000
F64	Text Mode Cont Corr	-128 ~ +127	000	000



MISCELLANEOUS ADJUSTMENTS continued

SOUND MODE

Select Picture / Sound Mode from the service menu. Receive an RF signal.

MTS Input Level

Select Input Level (A02) and set to initial value.

MTS Stereo VCO

Select FH Monitor (A03), set to 1. Connect frequency counter to pin 5 of connector S. Adjust Stereo VCO (A04) for 15.73kHz ± .1kHz. Reset FH Monitor (A03) to 0.

MTS SAP VCO

Connect a 1M ohms resistor between pins 3 and 4 of connector S2. Set 5FH MON (A09) to 1. Connect a frequency counter to pin 5 of connector S. Adjust SAP VCO (A10) for 78.67kHz ± .5kHz. Set 5FH MON (A09) to 0.

MTS Filter

Connect an MTS TV stereo generator to the antenna input. Select Pilot (A05) and set the value to 1. Connect an oscilloscope to pin 2 of connector S2 and select Filter (A06), adjust data for minimum amplitude of the waveform on the scope. Select Pilot (A05) and reset the value to 0.

MTS Separation

Connect an MTS TV stereo generator to the antenna input. Select pilot, 300Hz audio frequency, and left modulating signal on the generator. Connect an oscilloscope to pin 3 of connector S and adjust to display one cycle of the 300Hz signal. Connect oscilloscope to pin 5 of connector S. Adjust Low Sep (A07) for minimum amplitude of the waveform. Select 8kHz audio frequency on the generator. Adjust HI Sep (A08) for minimum amplitude of the waveform.

YC SEP MODE

Select YC SEP Mode from the service menu.

YC SEP Mode Onset Values

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
YC001	001	YC002	001	YC003	001
YC004	000	YC005	000	YC006	000
YC007	003	YC008	000	YC009	001
YC010	000	YC011	004	YC012	002
YC013	002	YC014	010	YC015	002
YC016	004	YC017	000	YC018	000
YC019	002	YC020	000	YC021	000
YC022	002	YC023	000	YC024	000
YC025	000	YC026	000	YC027	001
YC028	001	YC029	001	YC030	000
YC031	002	YC032	000	YC033	000
YC034	000	YC035	000	YC036	015
YC037	000	YC038	010	YC039	003
YC040	003	YC041	000	YC042	000
YC043	000	YC044	001	YC045	003
YC046	012	YC047	008	YC048	004
YC049	010	YC050	001	YC051	001
YC052	000	YC053	000	YC054	000
YC055	000	YC056	000	YC057	000
YC058	000	YC059	000	YC060	000
YC061	000	YC062	002	YC063	002
YC064	010	YC065	002	YC066	000
YC067	000	YC068	000	YC069	000
YC070	000	YC071	000	YC072	000
YC073	001	YC074	000	YC075	000
YC076	001	YC077	000	YC078	000
YC079	005	YC080	000	YC081	008
YC082	004	YC083	004	YC084	048
YC085	008	YC086	001	YC087	003
YC088	001	YC089	000	YC090	000

YC SEP Mode Onset Values continued

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
YC091	000	YC092	000	YC093	000
YC094	000	YC095	001	YC096	001
YC097	000	YC098	000	YC099	000
YC100	000	YC101	000	YC102	000
YC103	000	YC104	000	YC105	000
YC106	000	YC107	000		

PP MODE

Select PP Mode from the service menu

PP MODE Onset Values

Do not adjust any item of this mode. The Onset values are listed for check only.

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
PPA001	001	PPA002	001	PPA003	001
PPA004	000	PPA005	000	PPA006	000
PPA007	003	PPA008	000		
PPB001	000	PPB002	000	PPB003	000
PPB004	000	PPB005	00D	PPB006	0E8
PPB007	000	PPB008	01B	PPB009	0D0
PPB010	001	PPB011	001	PPB012	001
PPB013	000	PPB014	000	PPB015	000
PPB016	003	PPB017	000	PPB018	000
PPB019	000	PPB020	000	PPB021	000
PPB022	000	PPB023	000	PPB024	000
PPB025	000	PPB026	000	PPB027	000
PPB028	000	PPB029	000	PPB030	000
PPB031	000	PPB032	000	PPB033	000
PPB034	000	PPB035	000	PPB036	000
PPC001	000	PPC002	00D	PPC003	002
PPC004	000	PPC005	001	PPC006	008
PPC007	041				

ADM001	0AA	ADM002	009	ADM003	001
ADM004	003	ADM005	016	ADM006	0BD
ADM007	08B	ADM008	020	ADM009	0FF
ADM010	0FF	ADM011	0FF	ADM012	037
ADM013	029	ADM014	03E	ADM015	001
ADM016	001	ADM017	000	ADM018	001
ADM019	000	ADM020	000	ADM021	001
ADM022	000	ADM023	001	ADM024	000
ADM025	000	ADM026	001	ADM027	001
ADM028	001	ADM029	001	ADM030	003
ADM031	001	ADM032	000	ADM033	001
ADM034	032				
ADS001	0D6	ADS002	007	ADS003	001
ADS004	005	ADS005	016	ADS006	0BD
ADS007	08B	ADS008	020	ADS009	0FF
ADS010	0FF	ADS011	0FF	ADS012	039
ADS013	026	ADS014	03C	ADS015	001
ADS016	001	ADS017	000	ADS018	001
ADS019	000	ADS020	000	ADS021	001
ADS022	000	ADS023	001	ADS024	000
ADS025	000	ADS026	001	ADS027	001
ADS028	001	ADS029	001	ADS030	003
ADS031	001	ADS032	000	ADS033	001
ADS034	032				
VCM001	018	VCM002	001	VCM003	001
VCM004	015	VCM005	000	VCM006	006
VCM007	003	VCM008	007	VCM009	007

PP MODE Onset Values continued

Do not adjust any item of this mode. The Onset values are listed for check only.

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
VCM010	007	VCM011	002	VCM012	000
VCM013	000	VCM014	006	VCM015	000
VCM016	000	VCM017	000	VCM018	007
VCM019	007	VCM020	005	VCM021	007
VCM022	00F	VCM023	000	VCM024	00F
VCM025	003	VCM026	001	VCM027	00F
VCM028	000	VCM029	000	VCM030	000
VCM031	000	VCM032	002	VCM033	001
VCM034	000	VCM035	003	VCM036	003
VCM037	000	VCM038	001		

VCS001	01F	VCS002	001	VCS003	001
VCS004	018	VCS005	001	VCS006	000
VCS007	006	VCS008	005	VCS009	007
VCS010	00A	VCS011	007	VCS012	001
VCS013	000	VCS014	000	VCS015	013
VCS016	000	VCS017	000	VCS018	001
VCS019	007	VCS020	007	VCS021	007
VCS022	007	VCS023	00F	VCS024	000
VCS025	00F	VCS026	001	VCS027	001
VCS028	008	VCS029	000	VCS030	000
VCS031	000	VCS032	000	VCS033	000
VCS034	000	VCS035	000	VCS036	001
VCS037	000	VCS038	000	VCS039	002
VCS040	001	VCS041	001		

IP MODE

Select IP Mode from the service menu

IP MODE Onset Values

Do not adjust any item of this mode. The Onset values are listed for check only.

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
IPA001	001	IPA002	030	IPA003	02A
IPA004	030	IPA005	000	IPA006	000
IPA007	008	IPA008	000	IPA009	01D
IPA010	010	IPA011	018	IPA012	018
IPA013	002	IPA014	002	IPA015	00F
IPA016	016	IPA017	001	IPA018	00F
IPA019	001	IPA020	001	IPA021	01F
IPA022	000	IPA023	008	IPA024	001
IPA025	001	IPA026	01F	IPA027	000
IPA028	008	IPA029	03F	IPA030	000
IPA031	001	IPA032	010	IPA033	001
IPA034	034	IPA035	001	IPA036	00E
IPA037	02E	IPA038	01E	IPA039	002
IPA040	003	IPA041	008	IPA042	020
IPA043	020	IPA044	006	IPA045	00E
IPA046	01E	IPA047	002	IPA048	003
IPA049	008	IPA050	020	IPA051	001
IPA052	020	IPA053	001	IPA054	001
IPA055	020	IPA056	002	IPA057	020
IPA058	001	IPA059	001	IPA060	020
IPA061	002	IPA062	020	IPA063	020
IPA064	008	IPA065	002	IPA066	020
IPA067	001	IPA068	020	IPA069	000
IPA070	000	IPA071	004	IPA072	0FA
IPA073	000	IPA074	000	IPA075	013
IPA076	000	IPA077	000	IPA078	000
IPA079	000	IPA080	000	IPA081	000
IPA082	000	IPA083	000	IPA084	000
IPA085	000	IPA086	000	IPA087	000
IPA088	000	IPA089	000	IPA090	000

IP MODE Onset Values continued

Do not adjust any item of this mode. The Onset values are listed for check only.

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
IPA091	000	IPA092	000	IPA093	00F
IPA094	0FF	IPA095	000	IPA096	000
IPA097	00F	IPA098	0FF	IPA099	000
IPA100	000	IPA101	000	IPA102	000
IPA103	000	IPA104	000	IPA105	000
IPA106	000	IPA107	000	IPA108	080
IPA109	000	IPA110	040	IPA111	005
IPA112	040	IPA113	000	IPA114	0C0
IPA115	002	IPA116	0EF	IPA117	000
IPA118	000	IPA119	000	IPA120	000

IPB001	001	IPB002	079	IPB003	000
IPB004	000	IPB005	000	IPB006	000
IPB007	002	IPB008	084	IPB009	00F
IPB010	0FF	IPB011	00F	IPB012	0FF
IPB013	00F	IPB014	0FF	IPB015	00F
IPB016	0FF	IPB017	000	IPB018	000
IPB019	000	IPB020	000	IPB021	000
IPB022	000	IPB023	000	IPB024	000
IPB025	000	IPB026	000	IPB027	00F
IPB028	000	IPB029	000	IPB030	000
IPB031	000	IPB032	000	IPB033	000
IPB034	000	IPB035	000	IPB036	000
IPB037	000	IPB038	000	IPB039	000
IPB040	000	IPB041	000	IPB042	000
IPB043	000	IPB044	000	IPB045	000
IPB046	000	IPB047	000	IPB048	000
IPB049	000	IPB050	000	IPB051	00F
IPB052	000	IPB053	00F	IPB054	0FF
IPB055	000	IPB056	000	IPB057	00F
IPB058	0FF	IPB059	00F	IPB060	0FF
IPB061	00F	IPB062	0FF	IPB063	00F
IPB064	0FF	IPB065	000	IPB066	05C
IPB067	003	IPB068	046	IPB069	000
IPB070	000	IPB071	000	IPB072	000
IPB073	038	IPB074	080	IPB075	080
IPB076	000	IPB077	000	IPB078	000
IPB079	000	IPB080	00F	IPB081	000
IPB082	000	IPB083	000	IPB084	000
IPB085	000	IPB086	000	IPB087	00F

IPC001	002	IPC002	018	IPC003	000
IPC004	000	IPC005	000	IPC006	000
IPC007	004	IPC008	0F9	IPC009	004
IPC010	064	IPC011	000	IPC012	000
IPC013	000	IPC014	000	IPC015	000
IPC016	000	IPC017	000	IPC018	000
IPC019	000	IPC020	001	IPC021	000
IPC022	000	IPC023	000	IPC024	000
IPC025	000	IPC026	010	IPC027	000
IPC028	010	IPC029	001	IPC030	000
IPC031	000	IPC032	000	IPC033	000
IPC034	001	IPC035	000	IPC036	000
IPC037	000	IPC038	000	IPC039	001
IPC040	000	IPC041	000	IPC042	000
IPC043	000	IPC044	000		

MISCELLANEOUS ADJUSTMENTS continued

IP MODE Onset Values continued

Do not adjust any item of this mode. The Onset values are listed for check only.

Item No.	Onset Value	Item No.	Onset Value	Item No.	Onset Value
IPD019	000	IPD020	000	IPD021	000
IPD022	000	IPD023	000	IPD024	000
IPD025	000	IPD026	000	IPD027	000
IPD028	000	IPD029	000	IPD030	000
IPD031	000	IPD032	000	IPD033	000
IPD034	000	IPD035	000	IPD036	000
IPD037	000	IPD038	000	IPD039	000
IPD040	000	IPD041	000	IPD042	000
IPD043	000	IPD044	000	IPD045	000
IPD046	000	IPD047	000	IPD048	000
IPD049	000	IPD050	000	IPD051	01A
IPD052	002	IPD053	02D	IPD054	001
IPD055	000	IPD056	0CE	IPD057	004
IPD058	0E5				
IPE001	005	IPE002	004	IPE003	005
IPE004	006	IPE005	005	IPE006	006
IPE007	005	IPE008	006	IPE009	+005
IPE010	+006	IPE011	+005	IPE012	+005
IPE013	-005	IPE014	+005	IPE015	+016

Vertical Size / Vertical Linearity / Vertical Center

Tune in a circle cross pattern, enter the service menu. Adjust V Size (D01) for a slightly under scanned picture. Adjust V Center (D06) to center the picture. Adjust Vertical Size (D01) for a 92% of vertical screen size. Adjust V Linearity (D05) to have a full circle.

Horizontal Position / Horizontal Size

Tune in a crosshatch pattern, enter the service menu. Adjust the H Position (D14) to center the picture. Adjust the H Size (D03) for a 92% of the screen size.

Side Pin

Tune in a crosshatch pattern, enter the service menu. Adjust E W Parabola (D02), E W Corner Lower (D08), and E W Corner Upper (D09) so that the vertical lines on the left and right of the screen would be straight.

Trapezium

Tune in a crosshatch pattern, enter the service menu. Adjust Trapezium (D07) so that the vertical lines on the left and right of the screen would be straight and parallel to each other.

LOW LIGHT MODE

Select Low Light Mode from the service menu. Press the 0 button on the remote to display the data on the screen.

Low Light Mode Menu Chart

Adjustment	Range	Initial Value	On-set Value
SUB BRIGHT	000 ~ 255	134	173
RED CUT OFF	000 ~ 255	211	082
GREEN CUT OFF	000 ~ 255	050	040
BLUE CUTOFF	000 ~ 255	052	085

NOTE: While in the Low Light Mode Menu adjustments are performed using the following buttons on the remote:

0 - OSD On / Off	3 - Exit	4 - Increase red cutoff.
5 - Increase green cutoff.	6 - Increase blue cutoff.	7 - Decrease red cutoff.
8 - Decrease green cutoff.	9 - Decrease blue cutoff.	

White Balance (Low Light Adjustment)

Tune in a black and white signal. Adjust red and blue cutoff for best white balance. Exit Service menu and check white balance at high and low brightness

HIGH LIGHT MODE

Select High Light Mode from the service menu.

High Light Mode Menu Chart

Adjustment	Range	Initial Value	On-set Value
RED DRIVE	000 ~ 127	060	071
BLUE DRIVE	000 ~ 127	060	052

NOTE: While in the High Light Mode Menu adjustments are performed using the following buttons on the remote:

0 – OSD On / Off	3 - Exit	4 - Increase red drive.
6 - Increase blue drive.	7 - Decrease red drive.	9 - Decrease blue drive.

White Balance (High Light Adjustment)

Tune in a black and white signal. Adjust red and blue drives for best white balance. Exit Service menu and check white balance at high and low brightness.

RF AFC MODE

Select RF AFC from the service menu.

RF AFC Mode Menu Chart for Main Tuner (DO NOT ADJUST)

Tuner	1
AFC	ON
FINE	-01

Select Tuner from the service menu to change to Sub Tuner menu.

RF AFC Mode Menu Chart for Sub Tuner (DO NOT ADJUST)

Tuner	2
AFC	ON
FINE	+09

I<sup>2</sup>C BUS CTRL MODE

Select I<sup>2</sup>C Bus CTRL from the service menu.

I<sup>2</sup>C Bus CTRL Mode Menu Chart (DO NOT ADJUST)

Adjustment	On-set Value
I <sup>2</sup> C BUS	STOP

JVC

MODEL AV-48WP30/H-ME (CHASSIS A105)

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.
D301, 02, 05	-	1SS133-T2	NTE177	IC560	-	BU2098F-X	-	D209 Thru	-		
D304, 06	-	MA111-X	-	IC661	-	AN5277	-	D213	-	UDZS10B-X	-
D308	-	MA8100/M/-X	-	IC701	-	MN102H57KPB	-	D215 Thru	-		
D309, 10	-	MA111-X	-	IC702	-	S-80828ALNP-W	-	D220	-	UDZS10B-X	-
D352	-	MA111-X	-	IC703	-	AT24C32-48WP30	-	D401 Thru	-		
D353	-	MA8150/M/-X	-	IC704	-	TA48M033F-X	-	D406	-	UDZS9.1B-X	-
D354	-	MA8030H/-X	-	IC901	-	PQ12RF1	-	D471, 73	-	MA153A-X	-
D431, 32	-	MA111-X	-	IC903	-	BA17805T	NTE1960	IC601	-	M52001SP	-
D481, 82	-	MA111-X	-	IC941	-	SI-8090S	-	BLUE CRT BOARD			
D662, 63	-	MA3330/L/-X	-	IC942	-	SI-8050S	-	D001	-	RM2C-LFA1	NTE125
D667, 68, 69	-	MA111-X	-	IC943	-	PQ1CG2032FZ	-	D101	-	EU01N-T2	-
D701	-	ISR35-400A-T2	-	IC944	-	PQ070XH02Z-W	-	D102	-	1SR124-400A-T2	-
D702, 04	-	MA111-X	-	Q001	-	2SC2412K/QR/-X	NTE2408	D103	-	MA111-X	-
D708 Thru	-			Q021	-	2SC2412K/QR/-X	NTE2408	IC101	-	TDA6111Q	-
D711	-	MA111-X	-	Q151, 52, 53	-	2SC3837K/NP/-X	-	Q031	-	2SA1037/AK/QR/-X	-
D713 Thru	-			Q232	-	2SA1037AK/QR/-X	NTE2409	BLUE VM BOARD			
D716	-	MA111-X	-	Q242, 43, 46	-	2SC2412K/QR/-X	NTE2408	D101	-	1SS355-X	-
D718	-	MA111-X	-	Q248, 49	-	2SA1037AK/QR/-X	NTE2409	D102, 03	-	RH1S-T3	NTE552
D721, 22	-	MA704A-X	-	Q301, 02, 03	-	2SA1022/BC/-X	-	Q101	-	2SC1906-T	NTE107
D891, 92	-	UDZS8.2B-X	-	Q304, 05, 06	-	2SC3837K/NP/-X	-	Q102	-	2SA1005/MLK/-T	-
D893, 94, 95	-	UDZS5.1B-X	-	Q307	-	2SC2412K/QR/-X	NTE2408	Q103	-	2SC1959/Y/-T	-
D901, 03	-	ISR35-400A-T5	-	Q321	-	IMX1-XW	-	Q104	-	2SA562TM/Y/-T	-
D931, 32	-	MA111-X	-	Q323	-	2SC2412K/QR/-X	NTE2408	Q105	-	2SJ403	-
D933	-	UDZS5.1B-X	-	Q324	-	2SA1022/BC/-X	-	Q106	-	IRFI620G	NTE2388
D941	-	RK34-LFC4	-	Q331, 32, 33	-	2SC3837K/NP/-X	-	CONVERGENCE BOARD			
D942, 43	-	SF5S4	-	Q431	-	2SC2412K/QR/-X	NTE2408	D804, 05	-	1SR153-400-T2	-
D962	-	MA3030/H/-X	-	Q432	-	2SA1037AK/QR/-X	NTE2409	D816 Thru	-		
D964, 65	-	MA111-X	-	Q433, 36, 37, 38	-	2SC2412K/QR/-X	NTE2408	D827	-	RD33E/B2/-T2	-
D967	-	PTZ11B-X	-	Q439	-	2SA1037AK/QR/-X	NTE2409	D841, 42, 43	-	PTZ6.8B-X	-
D968	-	PTZ6.8B-X	-	Q481 Thru	-			IC801, 03	-	BA17805T	NTE1960
D969	-	PTZ11B-X	-	Q484	-	2SC2412K/QR/-X	NTE2408	IC804, 05	-	STK392-110	-
D970	-	MA111-X	-	Q485	-	2SA1037AK/QR/-X	NTE2409	Q801	-	2SC3852A	NTE56
IC001	-	TC74HC02AF-X	-	Q505	-	2SC2412K/QR/-X	NTE2408	Q802, 03	-	2SA673/C/-T	-
IC002	-	TC74HC14AF-X	-	Q668	-	DTC144EKA-X	NTE2418	Q806, 07, 08, 11	-	2SD601A/QR/-X	-
IC011	-	TC7W04F-X	-	Q669, 72	-	2SC2412K/QR/-X	NTE2408	CONVERGENCE OSD BOARD			
IC021	-	TC4W66F-X	-	Q673	-	2SA1037AK/QR/-X	NTE2409	IC701	-	TC74HC4053AF-XE	-
IC131	-	M52055FP-X	-	Q701	-	DTC144EKA-X	NTE2418	Q701 Thru	-		
IC151	-	MM1519XQ	-	Q702 Thru	-			Q705	-	2SC2412K/QR/-X	NTE2408
IC211	-	TA1318N	-	Q705	-	2SA1037AK/QR/-X	NTE2409	DEFLECTION OSD BOARD			
IC212	-	TC7W08F-X	-	Q706, 07, 10, 11	-	2SC2412K/QR/-X	NTE2408	D164	-	1SS355-X	-
IC241	-	CXA2019AQ	-	Q714	-	2SC2785/JH/-T	NTE2361	D221	-	1SS355-X	-
IC242	-	TA78L09F-X	-	Q715	-	2SA1037AK/QR/-X	NTE2409	D321	-	1SS355-X	-
IC301	-	AN5392FBQ	-	Q931, 61, 62	-	2SC2412K/QR/-X	NTE2408	D751, 52	-	ES1F-LFG2	-
IC302	-	CXA1875AM-X	-	Q964, 65	-	2SC2412K/QR/-X	NTE2408	IC101	-	LA7860M-X	-
IC351	-	TC74HC4538AF-X	-	Q981, 84	-	2SC4682-T	-	IC102	-	BA12FP-X	-
IC431	-	TC4W66F-X	-	A/V JACK BOARD				IC161	-	AN5441SA-W	-
IC501	-	CXA2069Q	-	D101, 41	-			IC162	-	BA10393F-XE	-
IC502	-	M62320FP-X	-	D201 Thru	-	UDZS10B-X	-				
IC511	-	PQ15RW11	-	D204	-	UDZS10B-X	-				
IC521	-	CE42599-002	-	D207	-	UDZS10B-X	-				

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.
IC212	-	CXA1875AM-X	-
Q101, 02	-	2SD601A/QR/-X	-
Q131, 32	-	2SD601A/QR/-X	-
Q162, 67, 68	-	2SD601A/QR/-X	-
Q751, 52	-	2SD601A/QR/-X	-
Q753	-	2SC4632	NTE2588
FRONT CONTROL BOARD			
D402 Thru			
D406	-	UDZS10B-X	-
D701	-	SELU5E20C	-
D735	-	UDZS10B-X	-
IC201	-	PC123F2	-
IC702	-	MM1437AF-X	-
Q201	-	DTC124EKA-X	NTE2357
Q701, 02	-	2SC2412K/QR/-X	NTE2408
GREEN CRT BOARD			
D001	-	RM2C-LFA1	NTE125
D101	-	EU01N-T2	-
D102	-	1SR124-400A-T2	-
IC101	-	TDA6111Q	-
GREEN VM BOARD			
D101	-	1SS355-X	-
D102, 03	-	RH1S-T3	NTE552
Q101	-	2SC1906-T	NTE107
Q102	-	2SA1005/MLK/-T	-
Q103	-	2SC1959/Y/-T	-
Q104	-	2SA562TM/Y/-T	-
Q105	-	2SJ403	-
Q106	-	IRFI620G	NTE2388
LINE FILTER BOARD			
D911 Thru			
D914	-	1SR35-400A-T2	-
D921	-	1SR35-400A-T2	-
POWER AND DEFLECTION BOARD			
D201	-	1SR35-400A-T2	-
D401	-	MTZJ75-T2	-
D402	-	1R35-400A-T2	-
D403	-	1SS133-T2	NTE177
D404	-	MTZJ9.1B-T2	-
D405	-	1SS133-T2	NTE177
D406	-	MTZJ6.8C-T2	-
D407	-	1R35-400A-T2	-
D501	-	1SS81-T5	NTE177
D504	-	RG2A-LFC4	-
D505	-	V11CA-C1	-
D506	-	FMV-3FU-F1	-
D521	-	MTZJ12C-T2	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D522	-	1SS81-T5	NTE177
D531	-	RGP10J-5025-T3	-
D561, 62	-	MTZJ7.5S-T2	-
D583	-	1SS133-T2	NTE177
D801, 02	-	EU2-T3	-
D803	-	RU30A-F1	-
D811	-	1SR124-400A-T2	-
# D901	-	RBV-606	NTE5330
D910	-	MA700A-T2	-
D911	-	RGP10J-5025-T3	-
D912, 13	-	AU01Z-T2	-
D914	-	1SS133-T2	NTE177
D915	-	SARS01-T2	-
D916	-	1SS133-T2	NTE177
D917	-	MTZJ27B-T2	-
D918	-	MTZJ5.1B-T2	-
D920	-	1SS133-T2	NTE177
D931	-	RU4AM-F1	-
D932	-	RU30A-F1	-
D934	-	RU4AM-F1	-
D935	-	RU3YX-LFC4	-
D936	-	FMX-G12S	NTE597
D937	-	EU2-T3	-
D938	-	FMX-G12S	NTE597
D941	-	MTZJ33B-T2	-
D952	-	MTZJ12C-T2	-
D953	-	1SS244-T2	NTE587
D954, 56	-	1SS133-T2	NTE177
D958	-	MTZJ6.8C-T2	-
D959	-	1SS133-T2	NTE177
D972	-	MTZJ15B-T2	-
D973	-	1SS133-T2	NTE177
IC401	-	LA7876NZ	-
IC911	-	STR-F6629B/F7	-
IC921	-	SE140N	-
# PC921	-	PC123F2	-
Q401, 02	-	2SC3311A/QR/-T	-
Q501	-	BSN304-T	-
# Q503	-	2SC5552-RL	-
Q521	-	2SC3311A/QR/-T	-
Q531	-	IRFI620G	NTE2388
Q532	-	2SC1959/Y/-T	-
Q533	-	2SA562TM/Y/-T	-
Q951	-	2SC1627A/Y/-T	-
Q952, 53, 54	-	2SC3311A/QR/-T	-
Q971	-	2SA1208/ST/Z1-T	-
RECEIVER BOARD			
D213, 14	-	UDZS8.2B-X	-
D531, 32	-	UDZS10B-X	-
D533, 34	-	MA111-X	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D551, 52	-	UDZS9.1B-X	-
D661, 62	-	1SS133-T2	NTE177
D701	-	UDZS8.2B-X	-
IC201	-	UPC1851BCU	-
IC631	-	NJM2150AD	-
IC651	-	M62320FP-X	-
Q101	-	2SC2412K/QR/-X	NTE2408
Q531 Thru			
Q534	-	DTC323TK-X	-
Q651	-	2SC2412K/QR/-X	NTE2408
Q652	-	2SA1037AK/QR/-X	NTE2409
Q661, 62	-	2SC3311A/QR/-T	-
RED CRT BOARD			
D001	-	RM2C-LFA1	NTE125
D101	-	EU01N-T2	-
D102	-	1SR124-400A-T2	-
IC101	-	TDA6111Q	-
RED VM BOARD			
D101	-	1SS355-X	-
D102, 03	-	RH1S-T3	NTE552
Q101	-	2SC1906-T	NTE107
Q102	-	2SA1005/MLK/-T	-
Q103	-	2SC1959/Y/-T	-
Q104	-	2SA562TM/Y/-T	-
Q105	-	2SJ403	-
Q106	-	IRFI620G	NTE2388
REMOTE CONTROL SENSOR			
D001	-	MA3068/M/-X	-
Item No.	Function/Rating	Mfr. Part No.	Notes
C218	1μF 20% 50V NP	QENC1HM-105Z	-
C252	10μF 20% 25V NP	QENC1EM-106Z	-
C521, 82	33μF 20% 16V NP	QENC1CM-336Z	-
CF241	Resonator	QAX0529-001	-
K703	Ferrite Bead	NQR0199-004X	-
K704, 05	Ferrite Bead	NQR0413-003	-
K943, 44	Ferrite Bead	CE42050-001Z	-
L211	10μH	QQL25CK-100Z	-
L243, 44	10μH	NQL024J-100X	-
L401	10μH	QQL25CK-100Z	-
L402	-	QQL26AK-100Z	-
L430, 31	-	NQL085J-560X	-
L481, 82	-	NQL085J-560X	-
L711	-	NQL085J-2R2X	-
L712, 13, 14	-	NQL085J-3R3X	-
L941	-	QQR1129-001	-
L942	-	QQR1127-001	-

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PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
L943	-	QQL50AK-330Z	-
L944	33μH	QQL26AK-330Z	-
L945, 46	22μH	QQL26AK-220Z	-
L947	-	QQR1127-001	-
L948	-	QQL50AK-100Z	-
L949	22μH	QQL26AK-220Z	-
L950	82μH	QQL26AK-820Z	-
LC131	Filter	CE42543-001	EMI
R199	1000 .5% 1/16W	NRVA63D-102X	-
R282	10K .5% 1/16W	NRVA63D-103X	-
R342	1500 .5% 1/16W	NRVA63D-152X	-
R343	1200 .5% 1/16W	NRVA63D-122X	-
R370	1800 .5% 1/16W	NRV63D-182X	-
# R381, 87	4700 .5% 1/16W	NRV63D-472X	-
R389	2700 .5% 1/16W	NRV63D-272X	-
R571	1500 .5% 1/16W	NRV63D-152X	-
R572	470 1% 1/10W	NRSA02F-471X	-
# R671, 72	2.2 5% 1/4W	QRJ146J-2R2X	-
# R673, 74	1000 5% 1/2W	QRK126J-102X	-
R904, 05	2200 1% 1/10W	NRSA02F-222X	-
R935	8.2 5% 3W	QRT039J-8R2	-
R936	10 5% 3W	QRL039J-100	-
R949	1200 1% 1/10W	NRSA02F-122X	-
	1000 1%	-	-
R959	1800 1% 1/10W	NRSA02F-182X	-
SL211	Resonator	CSB503F30-T2	-
SL701	Resonator	QAX0248-001Z	-
SP01, 02	Speaker	QAS0104-001	-
SP03, 04	Speaker	QAS0105-001	Tweeter
# TU101	Tuner	QAU0206-001	Main
X241	Crystal	CE41651-001Z	-
#	Focus Pack	QAE0006-001	-
#	HV Divider	QAE0005-001	-
	Lens	LC31735-001A-A	Projection
	Magnet	QAL0398-001	Purity/Convergence
	Mirror	LC31733-001A-A	-
	Noise Filter	QQR0490-001	RF Input
	PC Board	SSB-7851A-M2	Digital Input Module
	PC Board	SSB01251A-M2	Front I/F
	PC Board	SSB0D051A-M2	I/P Module
	PC Board	SSB-1051A-M2	Main
#	Screen	48WPME-SC-SA	Assembly
	Transmitter	RM-C322G-1A	Remote
A/V JACK BOARD			
C432, 33	10μF 20% 50V NP	QENC1HM-106Z	-
C435, 36	10μF 20% 50V NP	QENC1HM-106Z	-
C602	1μF 20% 50V NP	QENC1HM-105Z	-
J101	Jack	QNZ0484-006	Assembly
J141	Jack	QNZ0484-004	Assembly
J321, 41	Jack	QNN0643-001	Assembly

Item No.	Function/Rating	Mfr. Part No.	Notes
L431	10μH	QQL25CK-100Z	-
LC321, 22, 23	Filter	NQR0169-001X	EMI
LC341, 42, 43	Filter	NQR0169-001X	EMI
	PC Board	SSB0J051A-M2	A/V Jack
BLUE CRT BOARD			
C006	.0047 10% 125VAC	QFZ9027-472	-
# DY1	Yoke	QQD0069-001	Blue
L002	1mH	QQL26AJ-102Z	-
L101	5.6μH	QQL244K-5R6Z	-
L102	-	QQL244K-4R7Z	-
R031	12K .5% 1/16W	NRVA63D-123X	-
R032	5600 .5% 1/16W	NRVA63D-562X	-
R104	47K 5% 3W	QRL039J-473	-
SG001	Spark Gap	CE42447-501	-
# SK001	Socket	CE42535-001J1	Blue CRT
# VB1 (1)	CRT	-	Assembly, Blue
# VB1 (2)	CRT	B CRT SA-M2	Assembly, Blue
# VB1 (3)	CRT	B CRT KIT SA-M2	Assembly, Blue
# VB1 (4)	CRT	B CRT /B SA-M2	Assembly, Blue
	PC Board	SSB-3351A-M2	Blue CRT
	Yoke	-	Blue Convergence
BLUE VM BOARD			
K101	Ferrite Bead	CE41492-001Z	-
L001C	VM	-	Blue
LC101	Filter	NQR0169-001X	EMI
# R110, 13	1800 5% 1/4W	QRJ146J-182X	-
# R114, 15	47 5% 1/4W	QRJ146J-470X	-
R120, 21, 22	33 5% 3W	QRL039J-330	-
	PC Board	SSB-7351A-M2	Blue VM
CENTER SPEAKER BOARD			
J001	Jack	CEMT019-001	Center Speaker
	PC Board	SSB0A051A-M2	Center Speaker
CONVERGENCE BOARD			
K801 Thru			
K811	Ferrite Bead	QQR0621-002Z	-
L801	22μH	QQL26AK-220Z	-
L802	-	-	-
MD001	Module	QAL0382-002	Convergence
S801	Switch	QSW0619-003Z	Convergence Output
W008	-	QQL521J-470	-
	PC Board	SSB-5051A-M2	Convergence
CONVERGENCE OSD BOARD			
L701	10μH	NQL054J-100X	-
	PC Board	SSB0T051A-M2	Convergence OSD
DEFLECTION OSD BOARD			
# C753	.015 3% 1.5kV	QFZ0200-153	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# C761	.0068 3% 1.8kV	QFZ0122-682	-
C762, 63	470pF 10% 2kV	QCZ0122-471	-
L101	47μH	QQL01BK-470Z	-
L103, 04	10μH	NQL092K-100X	-
L105	100μH	QQL01BK-101Z	-
R111	15K .5% 1/16W	NRV63D-153X	-
R112	1800 .5% 1/16W	NRV63D-182X	-
R113	12K .5% 1/16W	NRV63D-123X	-
R116	1800 .5% 1/16W	NRV63D-182X	-
# R123	100 5% 1/2W	QRK126J-101X	-
R129	18K .5% 1/16W	NRVA63D-183X	-
R179	5600 .5% 1/16W	NRVA63D-562X	-
R180	1500 .5% 1/16W	NRVA63D-152X	-
R184	47K .5% 1/16W	NRVA63D-473X	-
R185	10K .5% 1/16W	NRVA63D-103X	-
R188	100 .5% 1/16W	NRV63D-101X	-
	PC Board	SSB0H051A-M2	Deflection OSC
FRONT CONTROL BOARD			
J401	Jack	QNZ0438-001	Assembly
S701	Switch	QSW619-003Z	Power
S702	Switch	QSW619-003Z	Menu
S703	Switch	QSW619-003Z	Channel -
S704	Switch	QSW619-003Z	Channel +
S705	Switch	QSW619-003Z	Volume -
S706	Switch	QSW619-003Z	Volume +
S707	Switch	QSW619-003Z	Power
	PC Board	SSB0L051A-M2	Front Control
GREEN CRT BOARD			
# C001	10μF 20% 250V	QETN2EM-106Z	-
C006	.0047 10% 125VAC	QFZ9027-472	-
# DY1	Yoke	QQD0069-001	Green
# FR007	1.5 5% 1/2W Fusible	QRZ9009-1R5	-
L001, 02	1mH	QQL26AJ-102Z	-
L101	5.6μH	QQL244K-5R6Z	-
L102	-	QQL244K-4R7Z	-
R001	12K .5% 1/16W	NRVA63D-123X	-
R002	22K .5% 1/16W	NRVA63D-223X	-
R003	4700 .5% 1/16W	NRVA63D-472X	-
R104	47K 5% 3W	QRL039J-473	-
SG001	Spark Gap	CE42447-501	-
# SK001	Socket	CE42535-001J1	Green CRT
# VG1 (1)	CRT	-	Assembly, Green
# VG1 (2)	CRT	G CRT SA-M2	Assembly, Green
# VG1 (3)	CRT	G CRT KIT SA-M2	Assembly, Green
# VG1 (4)	CRT	G CRT/B SA-M2	Assembly, Green
	PC Board	SSB-3251A-M2	Green CRT
	Yoke	-	Green Convergence

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
GREEN VM BOARD				K935, 37, 38	Ferrite Bead	QQR0621-002Z	-	C661, 62	3.3µF 20% 50V NP	QEZ0206-335Z	-
K101	Ferrite Bead	CE41492-001Z	-	L501	-	QQLZ025-180	-	J531	Jack	CEMN036-004	Assembly
L001B	VM	-	Green	L502	-	QQR1230-001	-	J701	Jack	QNSC001-001	Compulink
LC101	Filter	NQR0169-001X	EMI	L504	-	QQR0915-003	-	R205	15K .5% 1/10W	NRVA02D-153X	-
# R110, 13	1800 5% 1/4W	QRJ146J-182X	-	L531	2.2µH	QQL43AJ-222	-	R208	1500 .5% 1/10W	NRVA02D-152X	-
# R114, 15	47 5% 1/4W	QRJ146J-470X	-	L701	2.2µH	QQL43AJ-222	-	RY661, 62	Relay	QSK0133-001	Speaker
R120, 21, 22	33 5% 3W	QRL039J-330	-	L801	-	QQLZ026-140	-	# TU101A	Tuner	QAU0206-001	PIP
	PC Board	SSB-7251A-M2	Green VM	L931, 33	47µH	QQL26AK-470Z	-	UD101	Splitter	QAU0219-001	-
LINE FILTER BOARD				L934	-	QQLZ018-220	-		PC Board	SSB0R251A-M2	Receiver
# C901, 02, 03	.1 10% 275VAC	QFZ9072-104	-	L935	-	QQL60AK-220	-	RED CRT BOARD			
# CN90PW	Line Cord	QMPD200-200-JC	AC, Polarized	L936	22µH	QQL26AK-220Z	-	C006	.0047 10% 125VAC	QFZ9027-472	-
# F901	Fuse	QMF61U1-7R0-S	7 Amp, 125V	R201	180 1% 1/4W	QRA14CF-1803Y	-	# DY1	Yoke	QQD0069-001	Red
# LF901, 02	Line Filter	QQR0972-002	-	R202, 03	270K 1% 1/4W	QRA14CF-2703Y	-	L002	1mH	QQL26AJ-102Z	-
# LF903	Line Filter	QQR1281-001	-	R404, 05	6800 1% 1/4W	QRA14CF-6801Y	-	L101	5.6µH	QQL244K-5R6Z	-
# R901	2.7M 10% 1/2W	QRZ9041-275	-	R406	10K 1% 1/4W	QRA14CF-1002Y	-	L102	-	QQL244K-4R7Z	-
# T911	Power	QQT0361-001	-	R407, 08	820 1% 1/4W	QRA14CF-8200Y	-	R104	47K 5% 3W	QRL039J-473	-
# VA901	Varsistor	ERZV10/621CS	-	R504	2700 5% 3W	QRL039J-272	-	SG001	Spark Gap	CE42447-501	-
	PC Board	SSB-9051A-M2	Line Filter	R505	3300 5% 3W	QRL039J-332	-	# SK001	Socket	CE42535-001J1	CRT
POWER AND DEFLECTION BOARD				R561	4700 1% 1/4W	QRA14CF-4701Y	-	# VR1 (1)	CRT	-	Assembly, Red
C412, 13	22µF 20% 16V NP	QENC1CM-226Z	-		12K 1%	-	-	# VR1 (2)	CRT	R CRT SA-M2	Assembly, Red
# C506	.0045 3% 1.8kV	QFZ0122-452	-	R562	5600 1% 1/4W	QRA14CF-5601Y	-	# VR1 (3)	CRT	R CRT KIT SA-M2	Assembly, Red
# C507	.0039 3% 1.8kV	QFZ0122-392	-		3300 1%	-	-	# VR1 (4)	CRT	R CRT/B SA-M2	Assembly, Red
# C509	.15 3% 400V	QFZ0128-154	-	R591	3.3 10% 15W	QRF154K-3R3	-		PC Board	SSB-3151A-M2	Red CRT
# C510	.15 5% 250V	QFZ0197-154	-	R901	.51 10% 15W	QRF154K-R51	-		Yoke	-	Red Convergence
# C511	.25 3% 400V	QFZ0128-254	-	# R902	47 5% 1W	QRG01GJ-470	-	RED VM BOARD			
C513	22µF 20% 50V NP	QEZ0414-226	-	R903	.51 10% 15W	QRF154K-R51	-	K101	Ferrite Bead	CE41492-001Z	-
C521, 22	680pF 10% 2kV	QCZ0122-681	-	# R914	680 5% 1/2W	QRK126J-681X	-	L001A	VM	-	Red
# C902	.1 10% 275VAC	QFZ9072-104	-	# R917	3300 5% 1/2W	QRK126J-332X	-	LC101	Filter	NQR0169-001X	EMI
# C904, 05, 06	.001 +80% -20% 250VAC	QCZ9054-102	-	R941	33K 5% 3W	QRL039J-333	-	# R110, 13	1800 5% 1/4W	QRJ146J-182X	-
C907	1200µF 20% 200V	QEZ0572-128	-	R955	1 5% 3W	QRT039J-1R0	-	# R114, 15	47 5% 1/4W	QRJ146J-470X	-
# C908	.001 +80% -20% 250VAC	QCZ9054-102	-	R963, 64	4700 1% 1/4W	QRA14CF-4701Y	-	R120, 21, 22	33 5% 3W	QRL039J-330	-
C912	.0033 10% 2kV	QCZ0340-332	-	R968	18K 1% 1/4W	QRA14CF-1802Y	-		PC Board	SSB-7151A-M2	Red VM
C920	150pF 10% 2kV	QCZ0115-151Z	-	R972	1100 1% 1/4W	QRA14CF-1101Y	-	REMOTE CONTROL SENSOR			
C937	.0015 10% 2kV	QCZ0340-152	-	R973	7500 1% 1/4W	QRA14CF-7501Y	-	IC001	Receiver	GP1U281Q	Remote
	.0082 2kV	-	-	# R999	6.8M 10% 1/2W	QRZ0111-685	-		PC Board	SSB-8051A-M2	Remote Control Sensor
# C993, 94, 95	.0022 20% 250VAC	QCZ9078-222	-	# RY951	Relay	QSK0118-001	Power	# For SAFETY use only equivalent replacement part.			
# C997, 98, 99	.0022 20% 250VAC	QCZ9078-222	-	# RY952	Relay	QSK0083-001	Power	(1) Used in model AV-48WP30/H-ME.			
# CP934	IC Protection	ICP-N70-T	-	T501	Horizontal Drive	QQR1111-001	-	(2) Used in model AV-48WP30/ME.			
# CP936	IC Protection	ICP-N38-Y	-	# T502	Horizontal Output	QQH0113-002	-	(3) Used in models AV-48WP30/A and AV-48WP30/A-ME.			
# CP941, 42	IC Protection	ICP-N70-T	-	T701	DAF	QQR1096-001	-	(4) Used in models AV-48WP30/B and AV-48WP30/B-ME.			
# CP943	IC Protection	ICP-N20-Y	-	# T921	Switching	QQS0133-001	-				
# F905	Fuse	QMFZ034-5R0Z-J1	5 Amp, 125V		PC Board	SSB-2051A	Power And Deflection				
# FR801, 02	1 5% 1/2W Fusible	QRZ9011-1R0	-		PC Board	SSB-2052A-M2	Power And Deflection				
# FR811	4.7 5% 1/2W Fusible	QRZ9011-4R7	-	RECEIVER BOARD							
# FR915	33 5% 1/4W Fusible	QRZ9017-330	-	C207	1µF 20% 50V NP	QENC1HM-105Z	-				
K401	Ferrite Bead	QQR0621-002Z	-	C209	4.7µF 20% 50V NP	QENC1HM-475Z	-				
K504, 05	Ferrite Bead	QQR0679-001	-	C215	3.3µF 10% 16V Tantalum	QBTC1CK-335Z	-				
K912, 14	Ferrite Bead	QQR0582-001Z	-	C217	10µF 10% 16V Tantalum	QBTC1CK-106Z	-				
K930, 31	Ferrite Bead	QQR0621-002Z	-	C601, 02	1µF 20% 50V NP	QENC1HM-105Z	-				
				C631, 32	10µF 20% 25V NP	QENC1EM-106Z	-				