

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.

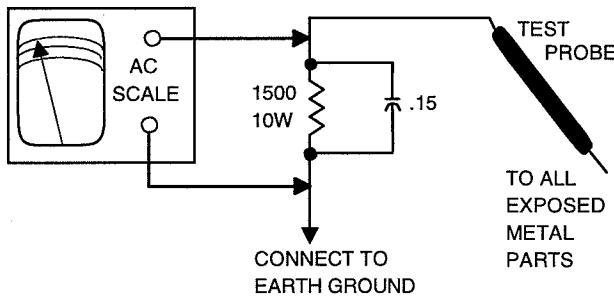
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

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.



HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC. Use the remote to set customer controls for normal operation. Momentarily short BC14901 (see Q14901 base) to ground. The receiver should lose raster and sound. If receiver does not lose raster and sound, the shutdown circuit should be repaired. To resume normal operation, remove AC power for approximately 30 seconds and then turn the receiver on.

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

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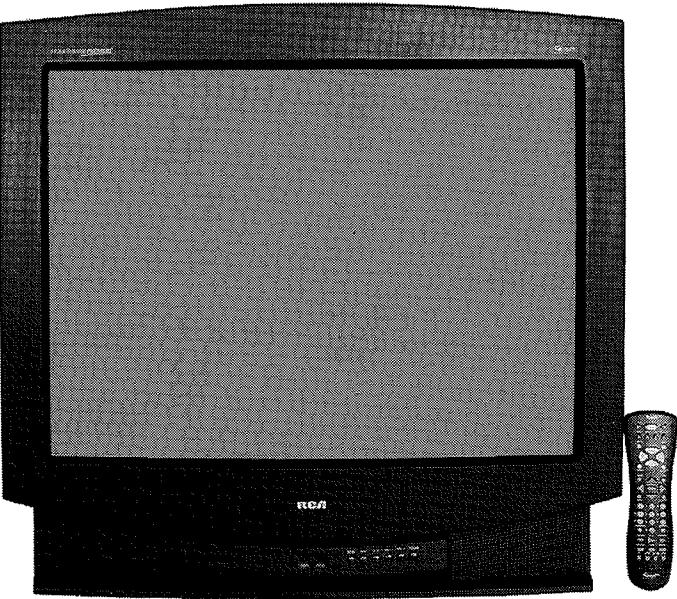
MODEL PS36700YX1 (CHASSIS CTC197CJ3)

RCA

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RCA
Model PS36700YX1 (Chassis CTC197CJ3)



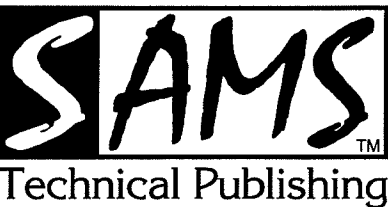
Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

MODELS	CHASSIS
PS32600YX1	CTC197CK
PS32700YX1	CTC197CJ3
PS36600YX1	CTC197CK
PS36605YX2	CTC197CK



JANUARY 2001 SET 4389

For Supplier Address,
See PHOTOFACT Annual Index

TUNER INFORMATION

MAIN TUNER CIRCUIT VOLTAGE CHART

Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band
U17501				U17701				Q17101			
1	1.7V	1.7V	1.7V	1	8.1V	8.1V	8.1V	G1	1.6V	1.6V	0V
2	2.6V	2.6V	2.6V	2	8.1V	8.1V	8.1V	G2	5.3V	5.3V	5.3V
3	2.6V	2.6V	2.6V	3	0V	0V	0V	D	15.0V	15.0V	0V
4	34.0V	34.0V	34.0V	4	4.1V	4.1V	3.6V	S	0V	0V	0V
5	2.2V	4.3V	3.9V	5	4.1V	4.1V	3.6V	Q17301			
6	1.2V	4.5V	5.1V	6	3.7V	3.7V	4.0V	G1	0V	0V	4.4V
7	1.5V	4.3V	4.5V	7	3.7V	3.7V	4.0V	G2	5.1V	5.1V	5.1V
8	1.9V	4.8V	4.9V	8	12.0V	12.0V	12.0V	D	0V	0V	11.5V
9	5.0V	5.0V	5.0V	9	11.7V	11.7V	11.7V	S	0V	0V	5.5V
10	1.5V	1.5V	1.5V	10	11.7V	11.7V	11.7V	Q17503			
11	1.5V	1.5V	1.5V	11	.1V	.1V	4.8V	E	12.0V	12.0V	12.0V
12	0V	0V	0V	12	2.8V	2.8V	2.8V	B	11.7V	11.0V	11.7V
13	0V	0V	0V	13	4.8V	4.8V	7.9V	C	-11.1V	11.6V	-11.1V
14	11.7V	11.7V	.3V	14	4.8V	4.8V	7.9V	Q17504			
15	.1V	.1V	4.8V	15	2.8V	2.8V	2.8V	E	12.0V	12.0V	12.0V
16	.1V	.1V	4.8V	16	2.8V	2.8V	2.8V	B	11.7V	11.7V	11.0V
17	11.7V	.2V	11.6V	17	8.0V	8.0V	4.6V	C	11.6V	11.6V	-4.0V
18	4.9V	4.9V	4.9V	18	8.0V	8.0V	4.6V	Q17505			
19	4.9V	4.9V	4.9V	19	2.8V	2.8V	2.8V	E	12.0V	12.0V	12.0V
20	0V	0V	0V	20	0V	0V	0V	B	11.6V	11.6V	-4.0V
								C	.1V	.1V	11.6V
								Q17601			
								E	.6V	.6V	.6V
								B	1.9V	1.9V	1.9V
								C	5.2V	5.2V	5.2V

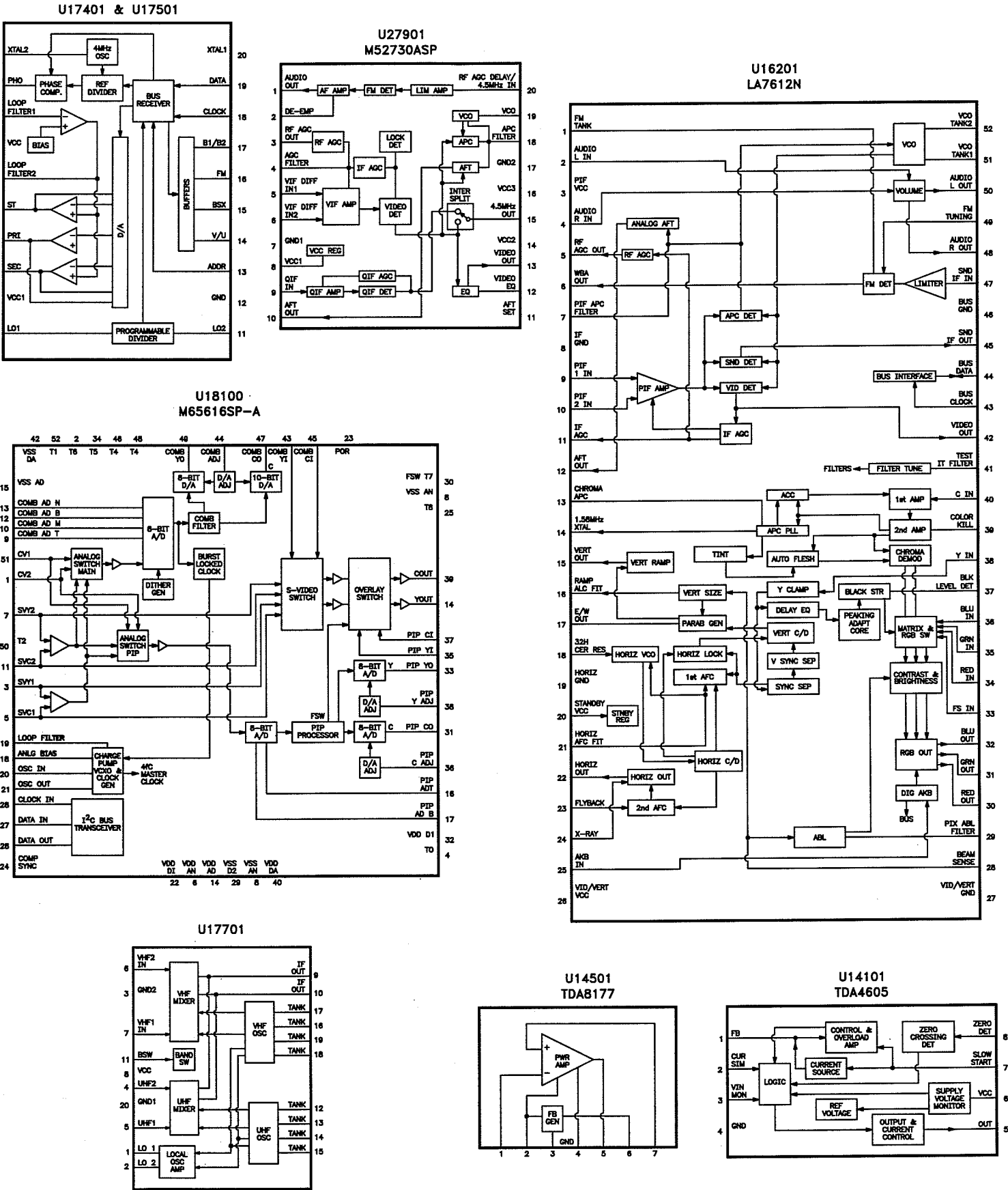
NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

PIP TUNER BOARD CIRCUIT VOLTAGE CHART

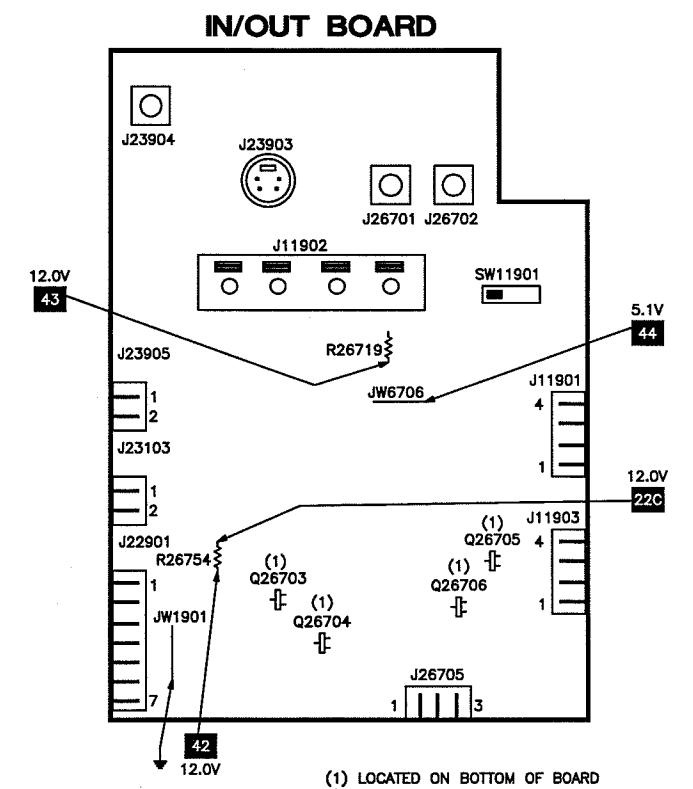
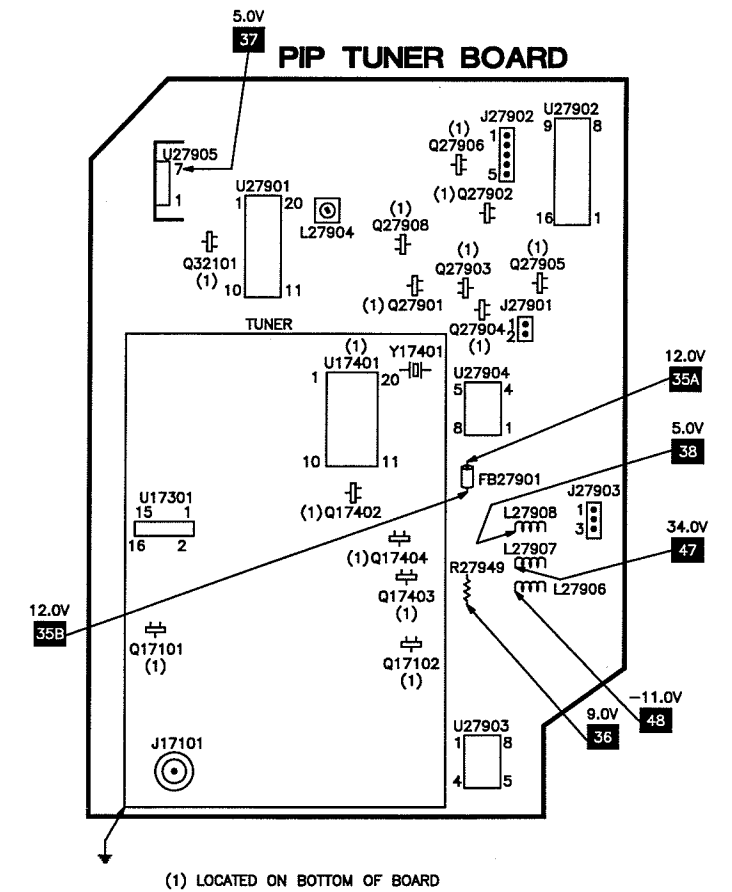
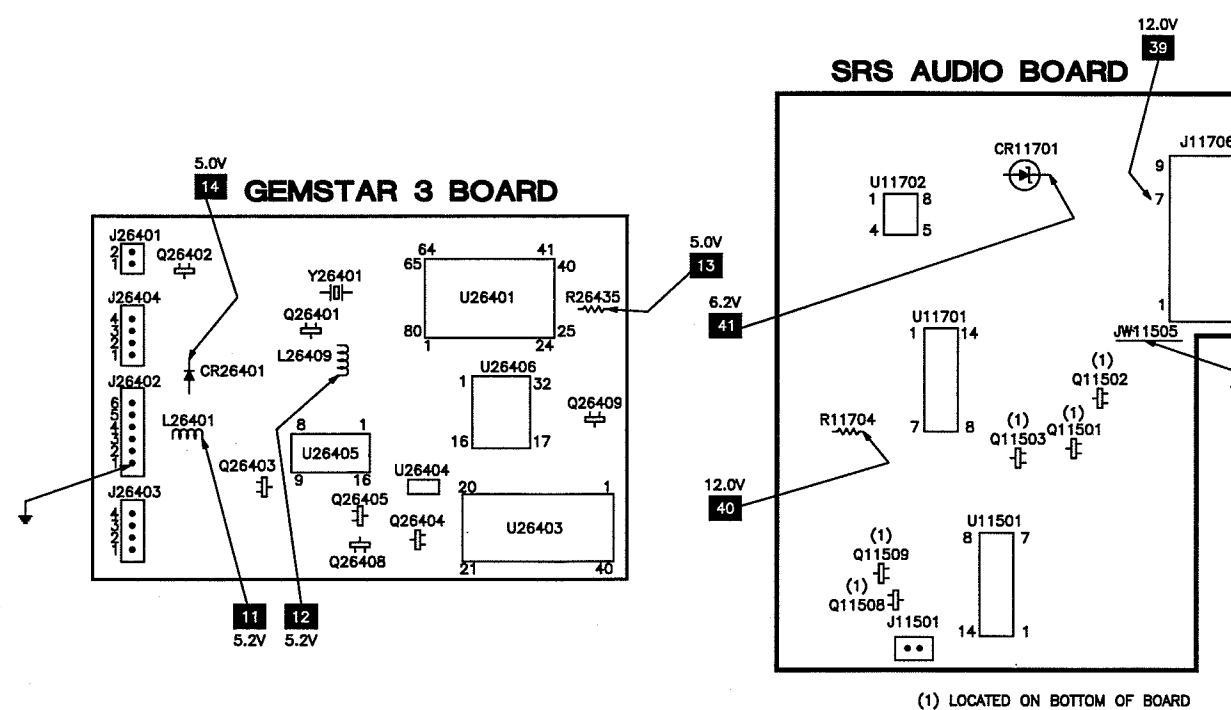
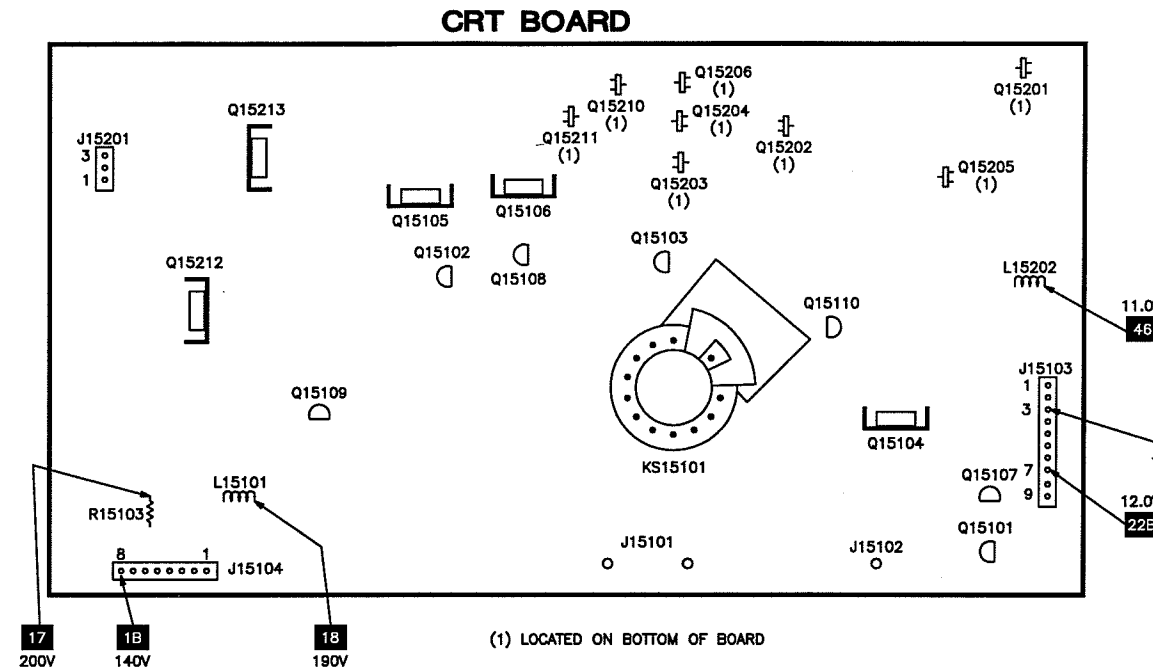
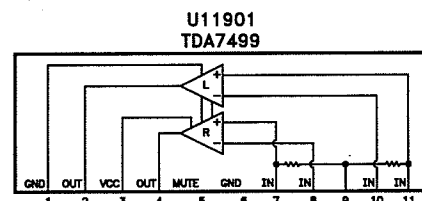
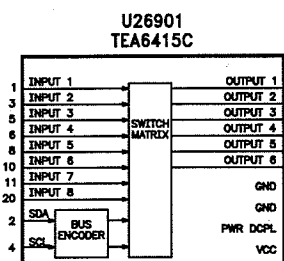
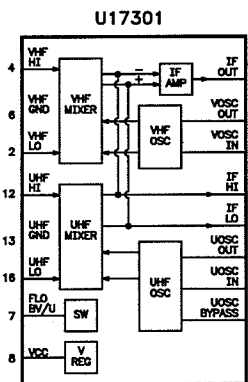
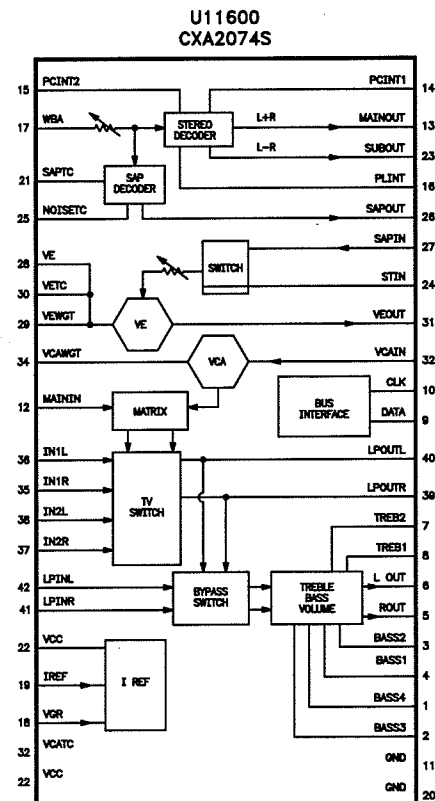
Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band
U17301				U17401				Q17101			
1	5.1V	5.1V	5.1V	1	1.7V	1.7V	1.7V	G1	.2V	.2V	1.8V
2	3.1V	3.1V	3.1V	2	2.6V	2.6V	2.6V	G2	2.5V	2.5V	2.5V
3	7.9V	7.9V	7.9V	3	2.6V	2.6V	2.6V	D	.4V	.4V	11.8V
4	3.1V	3.1V	3.1V	4	34.0V	34.0V	34.0V	S	0V	0V	0V
5	7.9V	7.9V	7.9V	5	2.3V	4.3V	4.1V	Q17102			
6	0V	0V	0V	6	1.4V	5.0V	4.5V	G1	1.7V	1.7V	0V
7	6.1V	6.1V	.2V	7	1.4V	4.4V	4.2V	G2	5.0V	5.0V	5.0V
8	9.0V	9.0V	9.0V	8	1.7V	4.8V	3.5V	D	11.7V	11.7V	0V
9	3.4V	3.4V	3.4V	9	5.0V	5.0V	5.0V	S	0V	0V	0V
10	3.1V	3.1V	3.1V	10	1.5V	1.5V	1.5V	Q17402			
11	7.5V	7.5V	9.0V	11	1.5V	1.5V	1.5V	E	12.0V	12.0V	12.0V
12	3.1V	3.1V	3.1V	12	0V	0V	0V	B	.4V	.4V	11.9V
13	0V	0V	0V	13	0V	0V	0V	C	11.9V	11.9V	0V
14	9.6V	9.6V	7.1V	14	11.2V	11.2V	.3V	Q17403			
15	3.4V	3.4V	3.4V	15	0V	0V	0V	E	12.0V	12.0V	12.0V
16	3.4V	3.4V	3.4V	16	0V	0V	0V	B	.4V	.4V	11.9V
				17	11.9V	.2V	.2V	C	11.9V	11.9V	0V
				18	4.9V	4.9V	4.9V	Q17404			
				19	4.9V	4.9V	4.9V	E	12.0V	12.0V	12.0V
				20	0V	0V	0V	B	11.9V	11.9V	11.2V
								C	.4V	.4V	11.9V

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

IC FUNCTIONS

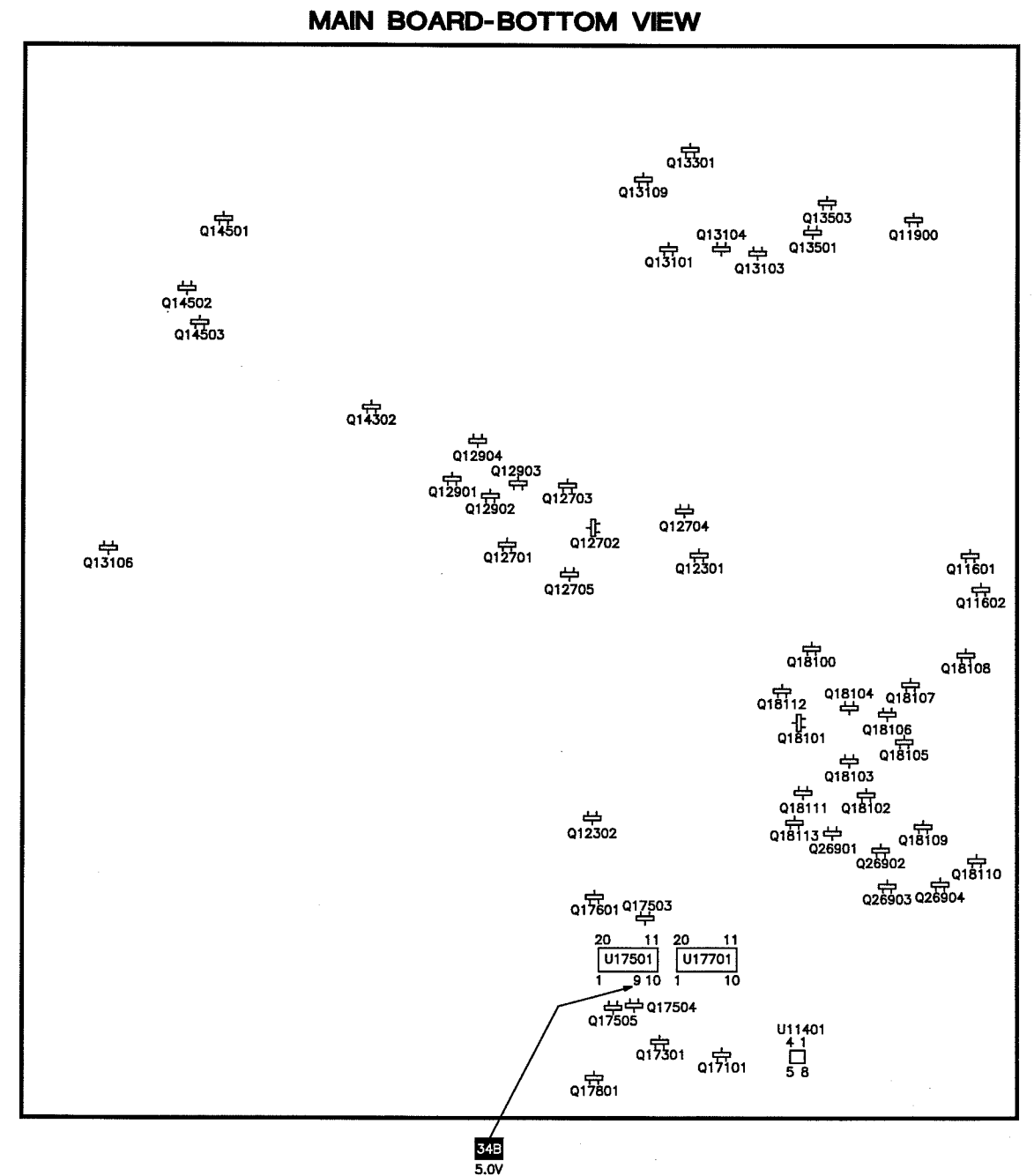


PLACEMENT CHART

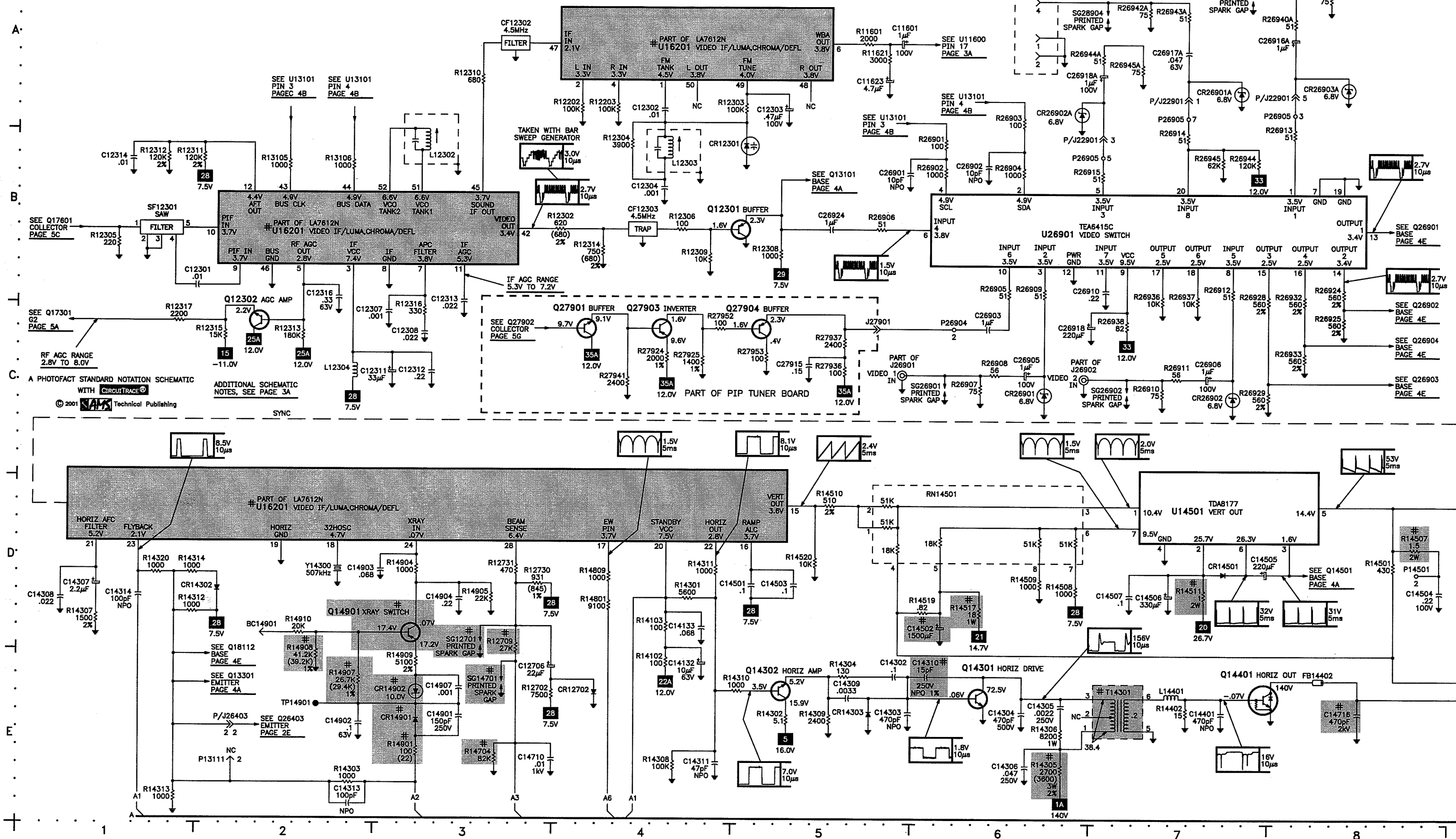


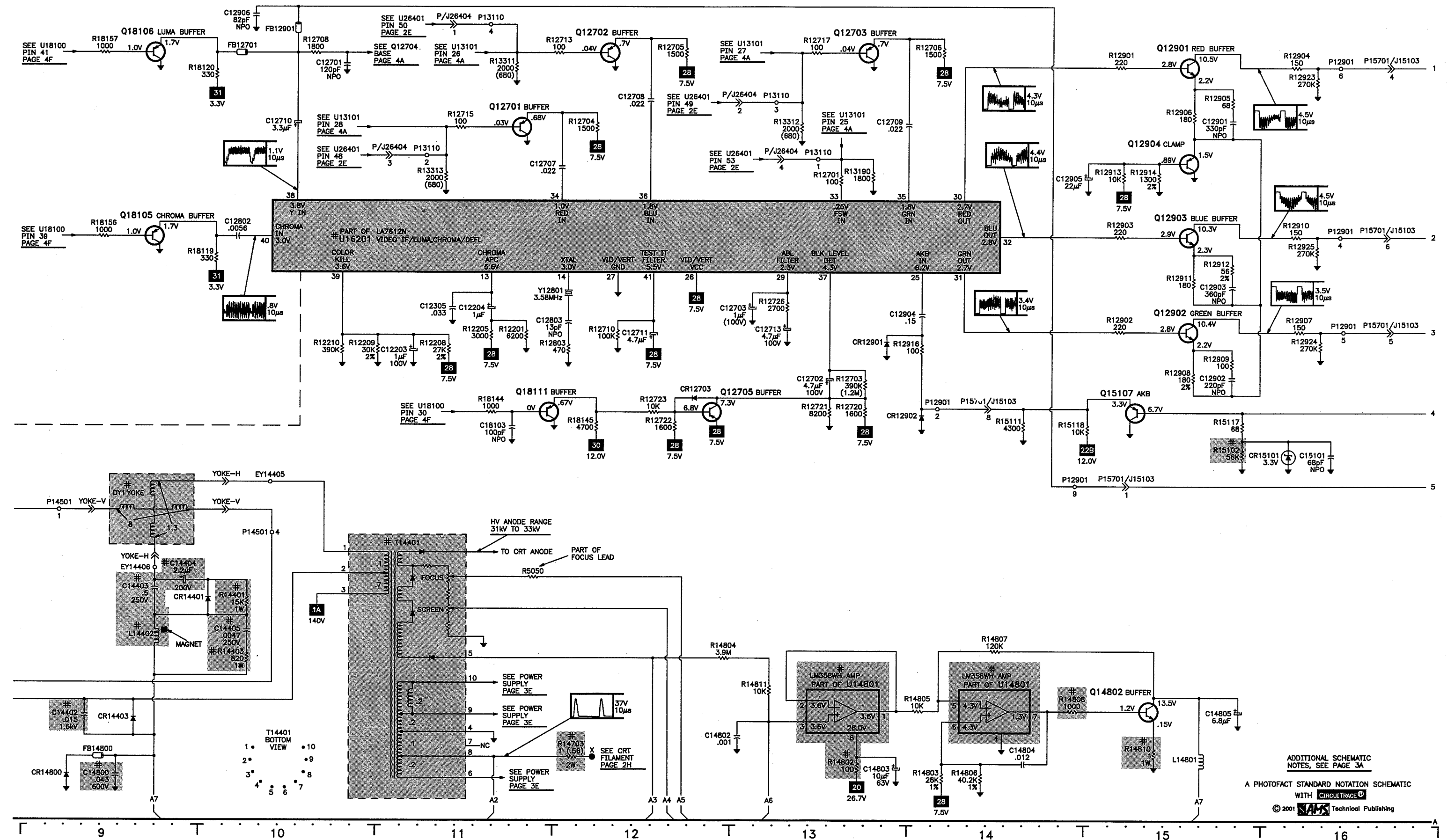
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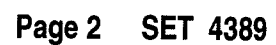
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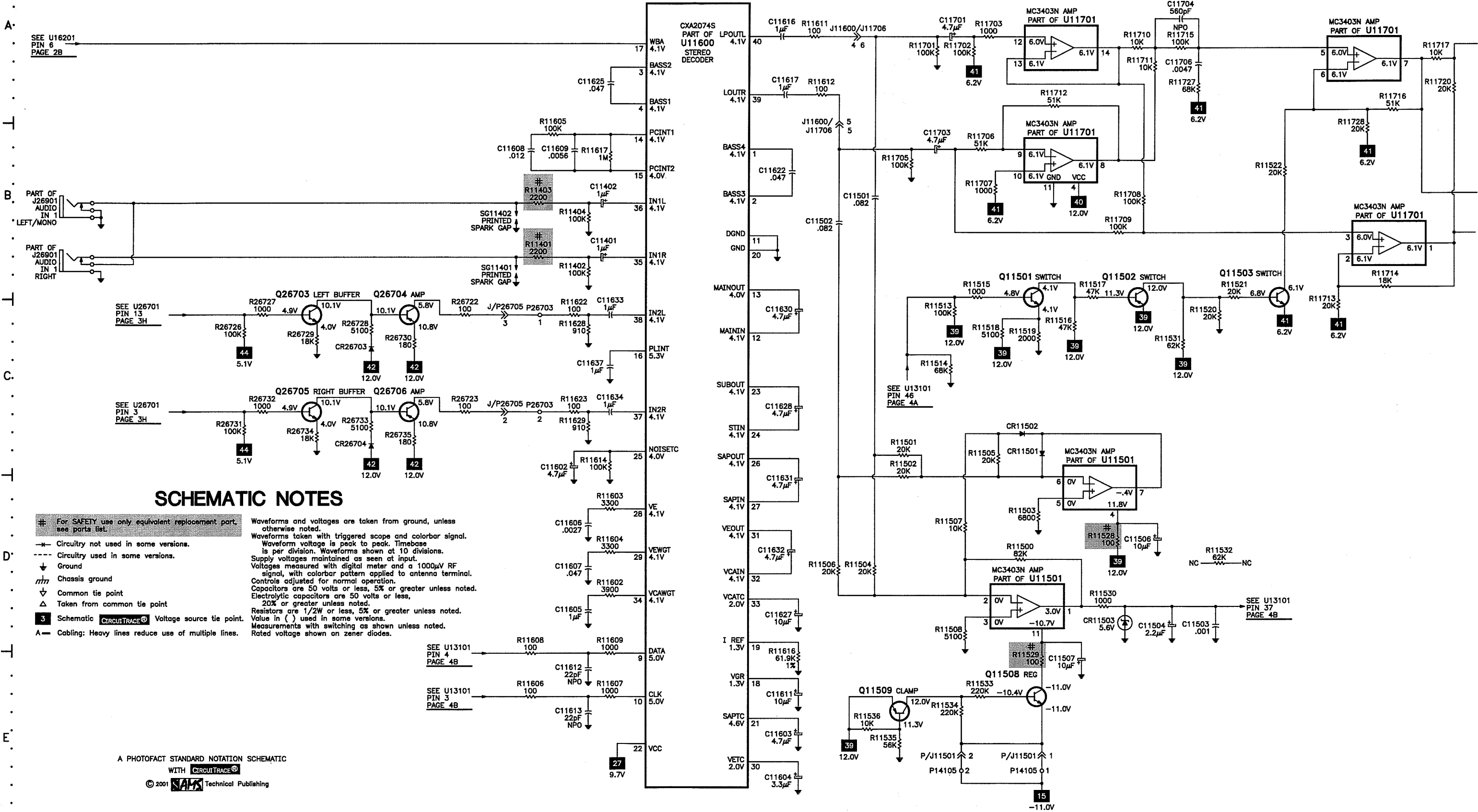
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AUDIO SCHEMATIC



LEFT CHANNEL



(1) USED IN MODELS PS36700YX1
AND PS32700YX1

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3A

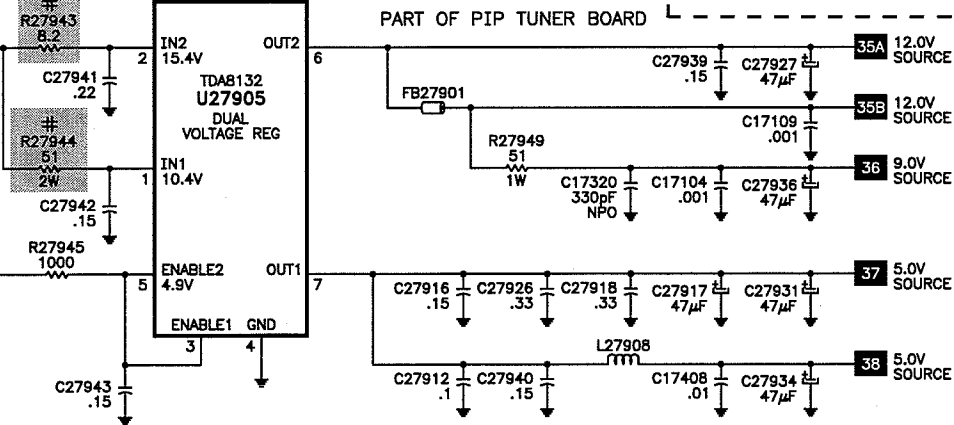
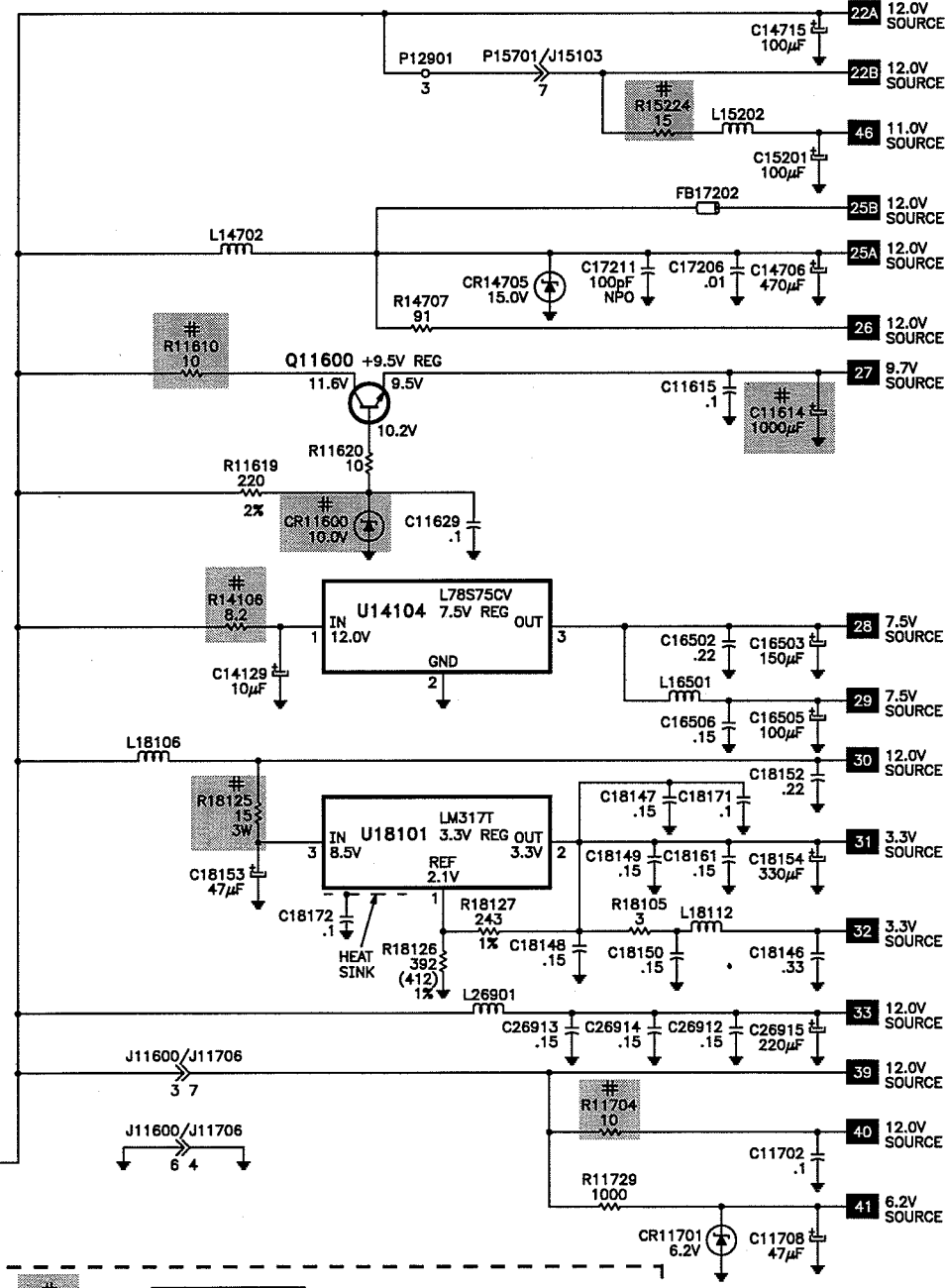
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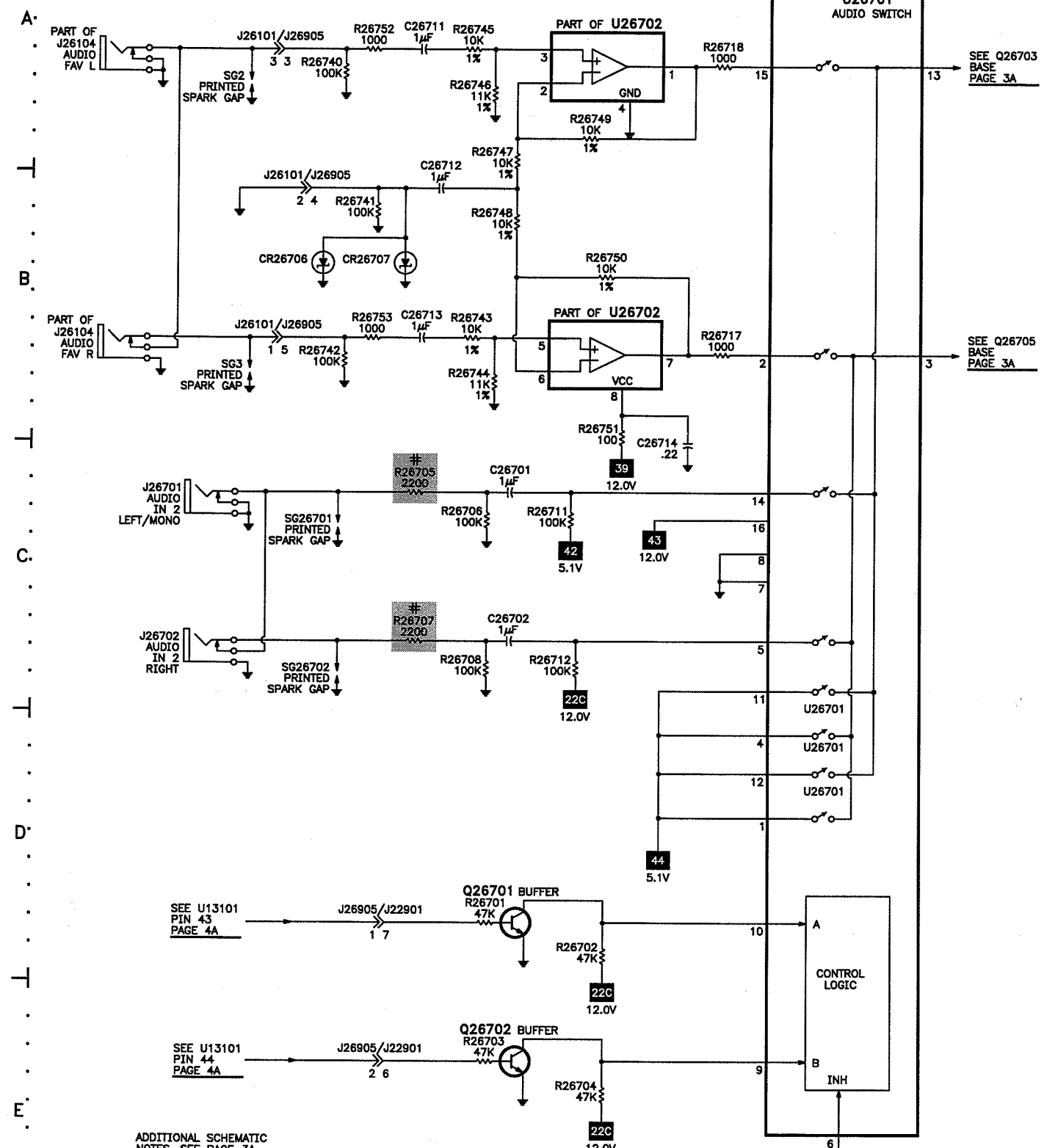
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G POWER SUPPLY, PIP TUNER BOARD SCHEMATIC continued



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3A
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H AUDIO SWITCHING



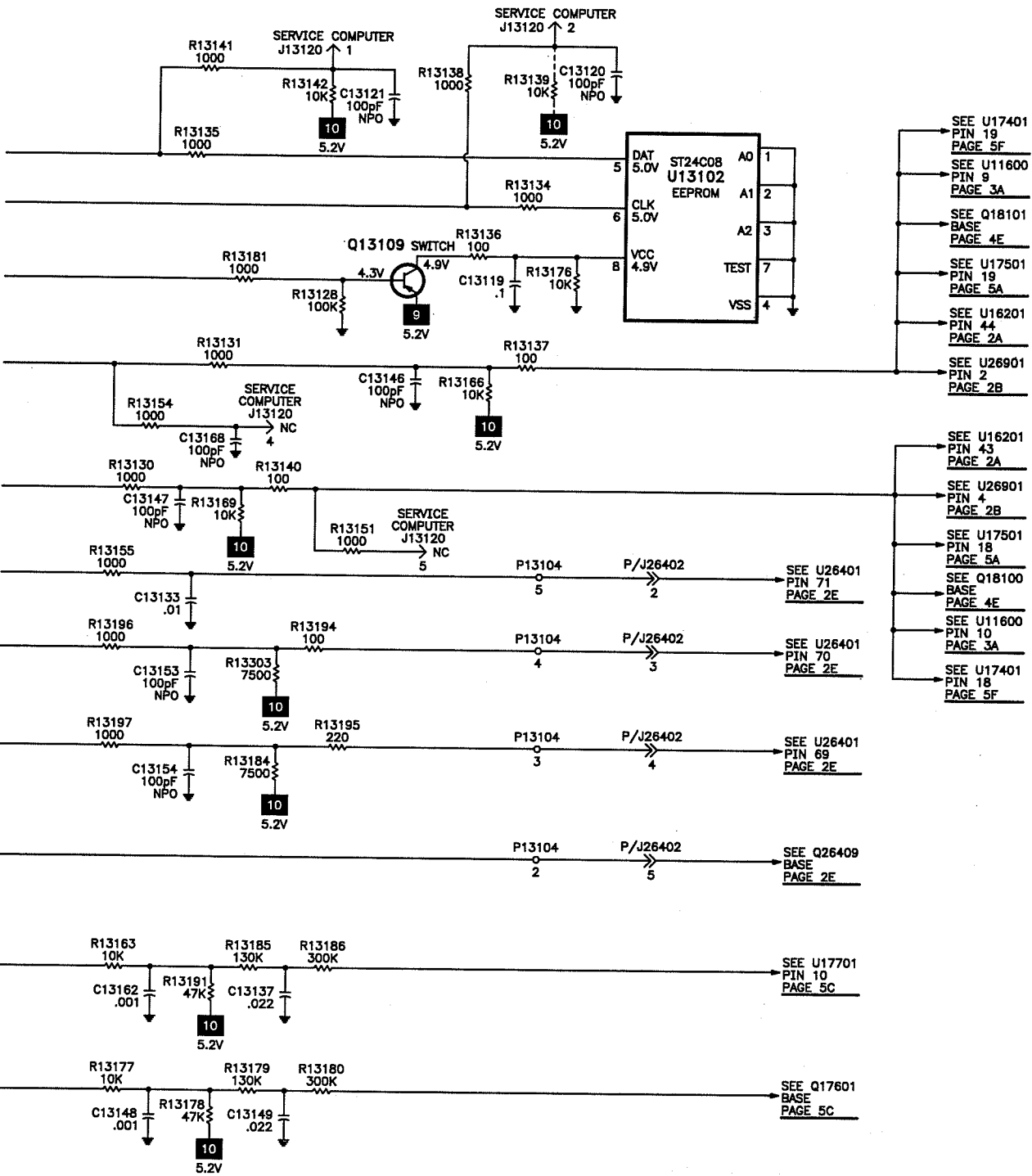
ADDITIONAL SCHEMATIC
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RCA
MODEL PS36700YX1 (CHASSIS CTC197CJ3)

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C
SYSTEM CONTROL SCHEMATIC continued

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

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3A

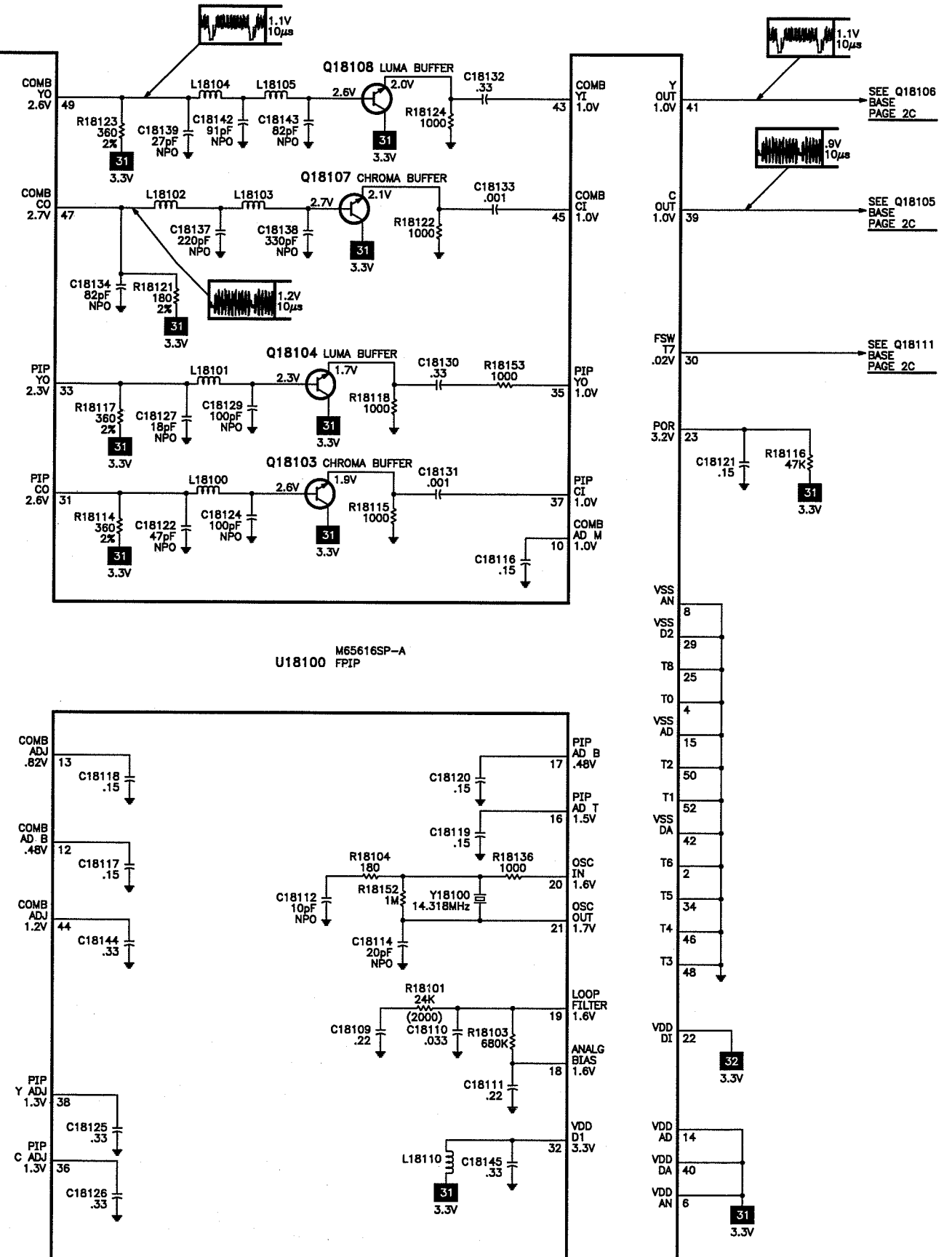
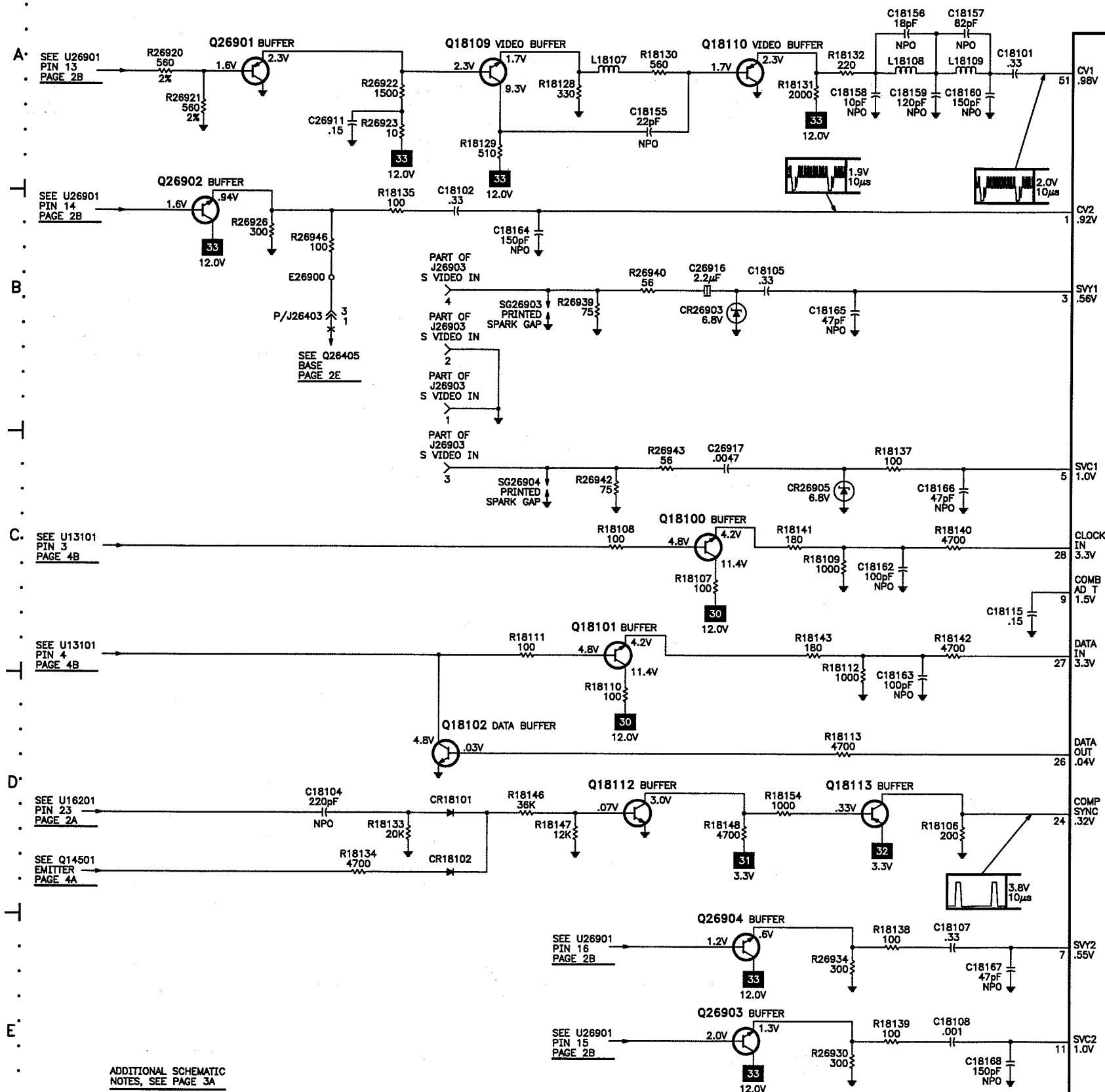
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E

PIP SCHEMATIC

F



ADDITIONAL SCHEMATIC
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SCHEMATIC COMPONENT LOCATION GUIDE

C11401	B36	C13111	B67	C14313	E2	C17124	A99	C17705	C95	C26437	A20	CR14201	CS0	FL17102	B97	L26403	C18	Q26705	C34	R11721	B41	R13108	C66	R14102	E4	R15112	B26	R17204	B91	R18122	B82	R26731	C34	R27951	E104
C11402	B36	C13112	A67	C14314	D1	C17124	C86	C17706	D93	C26438	B20	CR14210	AS1	IR13401	B4	A65	Q26706	C35	R11722	B41	R13109	C66	R14103	E4	R15113	B26	R17205	B89	R18123	A81	R26732	C34	R27952	C4	
C11403	E46	C13113	C56	C14401	E7	C17125	C100	C17707	C94	C26439	C56	CR14302	D2	J17101	A97	L26901	D59	Q26901	A77	R11723	B41	R13110	C67	R14104	D4	R15114	C30	R17206	C103	R18124	A83	R26733	C34	R27953	C5
C11404	D47	C13116	E71	C14402	E9	C17126	B86	C17708	D95	C26441	D55	CR14401	D10	J17102	A87	L27904	C105	Q26903	E79	R11725	C41	R13112	C67	R14106	C51	R15117	C31	R17302	B103	R18125	C58	R26734	C34	R32110	A100
C11405	E47	C13118	D71	C14404	D9	C17126	C101	C17710	D94	C26442	D55	CR14402	E9	J23904	A24	L27906	E55	Q26940	E79	R11726	B41	R13113	C67	R14107	E53	R15118	C14	R17303	B90	R18126	C59	R26735	C35	R32111	A103
C11406	E46	C13119	B74	C14405	D10	C17127	B100	C17711	D94	C26443	C55	CR14501	D7	J26104	A61	L27907	A55	Q27901	C4	R11727	A39	R13114	B67	R14110	A56	R15119	C26	R17304	B102	R18127	A79	R26740	A62	R32112	A104
C11501	B37	C13120	A74	C14501	D5	C17127	C86	C17712	D95	C26444	C55	CR14603	C55	J26104	B61	L27907	E59	Q27902	A107	R11728	B40	R13115	B67	R14111	B51	R15121	A51	R17305	C79	R18128	A78	R26742	B62	R32113	A100
C11502	B37	C13121	A74	C14502	D6	C17130	C100	C17713	C95	C26445	C56	CR14604	B54	J26701	C61	P14201	A49	Q27903	C4	R11729	D59	R13116	B67	R14122	B50	R15122	A27	R17306	B87	R18130	A78	R26743	B62	R32114	A100
C11503	D39	C13122	E69	C14504	D8	C17132	B100	C17714	C95	C26446	C56	CR14701	D51	J26702	C61	P17101	A87	Q27904	C5	R11730	D59	R13117	B67	R14123	B51	R15123	B25	R17307	B88	R18132	A79	R26744	B62	R32115	A105
C11506	D39	C13124	E70	C14505	D7	C17134	C98	C17716	E92	C26447	C56	CR14702	D51	J26901	B33	P17802	A87	Q27905	B107	R11731	B45	R13118	B67	R14124	B51	R15124	A27	R17308	C103	R18132	A80	R26745	A62	RN14501	D11
C11507	E38	C13125	D68	C14506	D7	C17136	B97	C17717	E94	C26448	C56	CR14703	B33	J26901	B33	PCBC1	A101	Q27906	B107	R11732	B45	R13119	B67	R14125	B51	R15125	A28	R17309	B88	R18133	D78	R26746	A62	RT14201	A50
C11519	B42	C13127	D68	C14507	D7	C17137	C98	C17718	B85	C26450	D20	CR14705	B59	J26902	C6	PCBC2	A101	Q27907	A107	R11733	A45	R13120	B67	R14126	A52	R15126	C26	R17309	C103	R18134	D78	R26747	B62	SF12301	B1
C11520	A42	C13128	A68	C14508	E65	C17139	B98	C17719	B98	C26451	B21	CR14800	E9	J26902	D48	Q11501	E48	Q11502	A103	R11734	A45	R13121	B67	R14127	A51	R15127	B28	R17309	B88	R18135	B78	R26748	B62	SF27901	A105
C11601	A5	C13129	E69	C14601	B54	C17140	C97	C17720	C97	C26452	C55	CR14901	E3	J26902	E48	Q11502	E48	Q11503	C39	R11735	B35	R13122	A67	R14144	A67	R15128	C40	R17309	C103	R18136	D83	R26749	B62	SP1	A48
C11602	C36	C13130	D68	C14604	B53	C17142	C98	C17721	C98	C26453	A18	CR14902	E3	K14201	B3	Q11509	E37	R11403	C39	R11736	B35	R13123	E69	R14145	B50	R15129	B28	R17309	B89	R18137	C80	R26750	B62	SP2	C48
C11603	E37	C13131	C69	C14609	B56	C17143	D100	C17722	D100	C26460	E18	CR15101	C16	K14201	C50	Q11509	E38	R11404	C39	R11737	B35	R13124	E68	R14146	B51	R15130	B27	R17309	D102	R18138	E80	R26751	C63	SW11901	B47
C11604	E37	C13133	C73	C14610	B56	C17145	B101	C17723	B101	C26461	E18	CR15102	C26	L12302	B3	Q11509	E37	R11405	D46	R11738	B35	R13125	E68	R14147	B50	R15131	C27	R17310	B89	R18139	E80	R26752	A62	SW13410	C65
C11605	D36	C13134	E27	C14701	D52	C17148	C99	C17724	C99	C26462	A86	CR15103	A27	L12303	B4	Q11600	B59	R11406	D47	R11739	A46	R13126	E68	R14148	C51	R15132	A27	R17310	C103	R18140	C80	R26753	B62	SW13412	B65
C11606	D36	C13137	D73	C14702	D51	C17201	D87	C17725	B95	C26701	C62	CR15202	C30	L12304	C2	Q11601	A44	R11407	D47	R11740	A46	R13127	E68	R14149	C50	R15133	D25	R17311	B88	R18141	C80	R26754	D55	SW13420	B65
C11607	D36	C13138	A68	C14703	D51	C17202	A89	C18101	A80	C26702	C62	CR15201	D28	L13101	B68	Q11602	B44	R11410	E47	R11741	A46	R13128	D68	R14150	B74	R15134	D25	R17311	C103	R18142	D80	R26901	B6	SW13421	B65
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C11609	B36	C13144	B71	C14706	B60	C17204	C91	C18103	C11	C26708	D56	CR15203	D30	L13103	B68	Q12301	B4	R11412	D47	R11743	A46	R13130	D68	R14152	B74	R15136	D26	R17313	B90	R18144	C11	R26903	B6	SW13431	B66
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C11616	A37	C13153	C73	C14715	A60	C17211	B59	C18110	B83	C26901	B6	CR17105	B90	L14402	D9	Q12902	C15	R11501	D37	R11951	C46	R13136	E68	R14152	C50	R15142	D25	R17316	B90	R18150	D79	R26909	C6	U11402	D47
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C11619	B43	C13163	C56	C14802	E13	C17301	A102	C18114	D82	C26906	C7	CR17108	C90	L14801	D52	Q13101	D15	R11503	D37	R11954	C46	R13139	E68	R14155	C50	R15145	D25	R17319	B90	R18153	D79	R26912	C7	U11503	D38
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C11627	D37	C13167	B67	C14901	E3	C17303	D102	C18118	D81	C26913	D60	CR17112	B100	L15202	A60	Q13104	C66	R11506	D37	R11955	C46	R13143	E68	R14159	C50	R15149	D25	R17323	B90	R18157	D79	R26916	B7	U11601	A38
C11628	C37	C13168	B73	C14902	E2	C17303	D86	C18119	D83	C26913	D60	CR17113	B100	L15202	A60	Q13104	C66	R11506	D37	R11955	C46	R13144	E68	R14160	C50	R15150	D25	R17324	B90	R18158	D79	R26917	B7	U11602	A40
C11629	B59	C13169	E68	C14903	C102	C17304	A102	C18120	D83	C26914	D60	CR17114	B100	L15202	A60	Q13104	C66	R11506	D37	R11955	C46	R13145	E68	R14161	C50	R15151	D25	R17325	B90	R18159	D79	R26918	B7	U11603	A41
C11630	D37	C13169	C56	C14904	D3	C17305	A103	C18121	B84	C26915	D60	CR17115	B100	L15202	A60	Q13104	C66	R11506	D37	R11955	C46	R13146	E68	R14162	C50	R15152	D25	R17326	B90	R18160	D79	R26919	B7	U11604	A42
C11631	D37	C13170	A71	C14907	E3	C17306	B87	C18122	C82	C26916A	E81	CR17116	C91	L17101	C86	Q13301	B70	R11509	D38	R11956	C46	R13147	E68	R14163	C50	R15153	D25	R17327	B90	R18161	D79	R26920	B7	U11605	A43
C11632	D37	C13172	E71	C15101	C16	C17306	B88	C18123	C82	C26917	E81	CR17117	C91	L17102	C87	Q13302	B70	R115																	

A.



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SEE U13101
PIN 3
PAGE 4B

R17520
100

R17500
1000

C17503

SEE U13101
PIN 4

R17519
100

22pF
NPO

R17500
1000

U17501 PLL

85

86

87

88

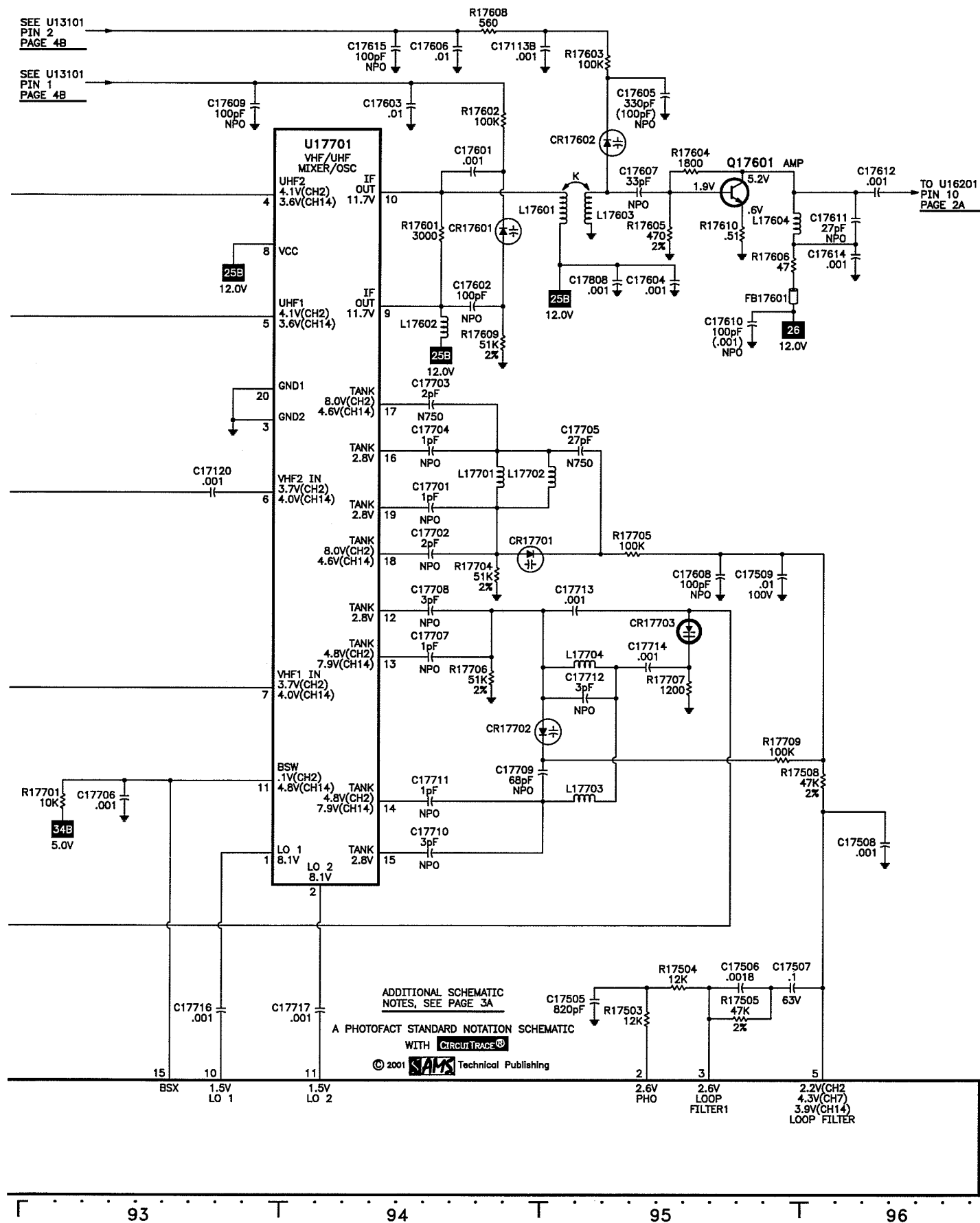
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9.

9

C MAIN TUNER SCHEMATIC continued



MISCELLANEOUS ADJUSTMENTS

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values.

Press menu button for collapsed raster service line. Disconnect the antenna. Preset the red, green, and blue drive values to 32. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance.

NOTE: All procedures require an antenna connected and power applied to the set.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 31kV to 33kV.

SERVICE MENU

The following adjustment procedures are accessed thru a service menu. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P0, and on the right the value of that parameter V0. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. To access and change any of the adjustments, the proper parameter pass number must be entered. This information is listed at the beginning of the alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen.

NOTE: In order to adjust the RF AGC, audio or video levels, tuner, PIP, or stereo circuits, the ChipperCheck hardware and software must be used. This can be purchased from Thomson.

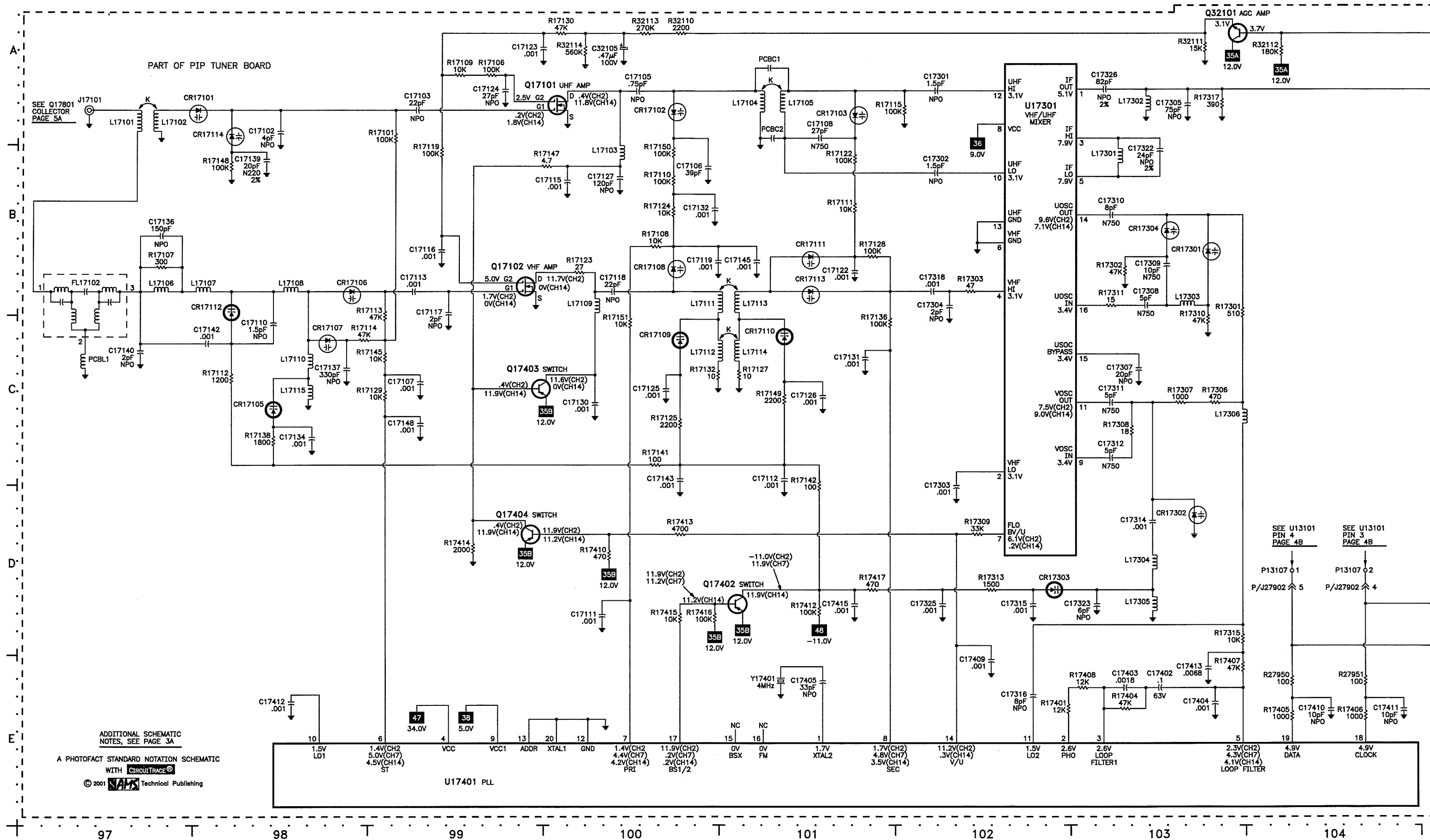
SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0	Pass number for service adjustment parameters.		Must set to 76	May not advance until value is set.
1	Error Code 1	0	0 - 255	Displays the first error detected. Set to 0 before exiting. See Error Codes Chart.
2	Error Code 2	0	0 - 255	Displays the second error detected. Set to 0 before exiting. See Error Codes Chart.
3	Error Code 3	0	0 - 255	Displays the last error detected. Set to 0 before exiting. See Error Codes Chart.
4	Horizontal Phase	5	0 - 15	Set value to 5.
5	Horizontal Size	20	0 - 31	Adjust for slight horizontal overscan.
6	Pincushion Amplitude	8	0 - 15	Set value to 8.
7	Pincushion Tilt	8	0 - 15	Set value to 8.
8	Top Corner Pin Correction	3	0 - 7	Set value to 3.
9	Bottom Corner Pin Correction	3	0 - 7	Set value to 3.
10	Vertical Centering	32	0 - 63	Adjust to center vertically.
11	Vertical Size	110	0 - 127	Adjust for slight vertical overscan.
12	Vertical Countdown Mode	0	0 - 3	Set value to 0.
13	Red Bias	27	0 - 127	Press menu button on the TV set for setup line.
14	Green Bias	20	0 - 127	Press menu button on the TV set for setup line.
15	Blue Bias	37	0 - 127	Press menu button on the TV set for setup line.
16	Red Drive	32	0 - 63	Press menu button on the TV set for setup line.
17	Green Drive	27	0 - 63	Press menu button on the TV set for setup line.
18	Blue Drive	25	0 - 63	Press menu button on the TV set for setup line.
19	Horizontal Menu Position	22	0 - 255	Set value to 22.
20	Vertical Menu Position	38	0 - 255	Set value to 38.
21	PIP Horizontal Position	39	0 - 255	Set value to 39.
22	PIP Vertical Position	43	0 - 255	Set value to 43.
23	Menu Position	3	0 - 13	Set value to 3.

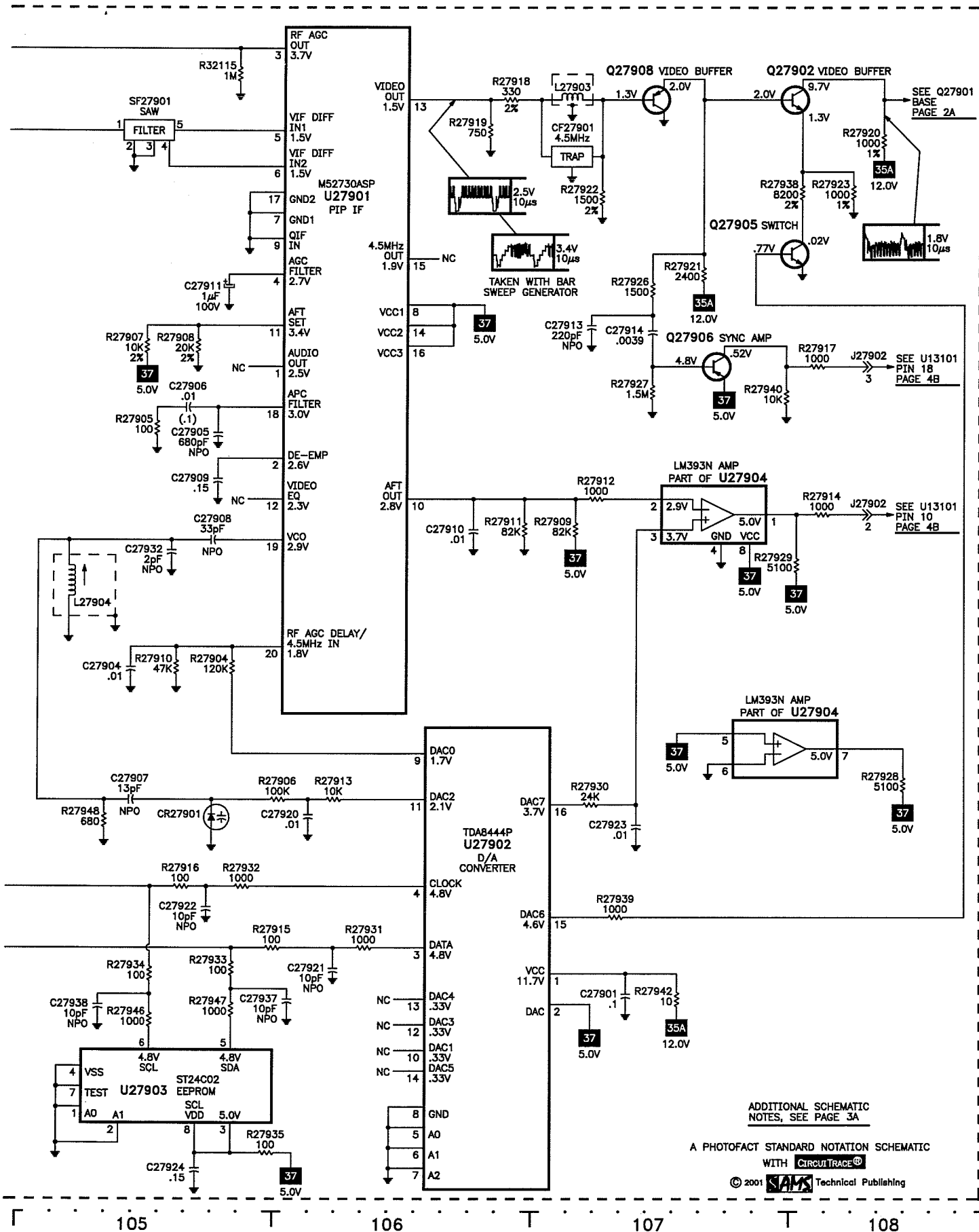
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PIP TUNER BOARD SCHEMATIC continued

F



G
PIP TUNER BOARD SCHEMATIC continued



ERROR CODES CHART

Error Code	Error Location	Condition Indicated
0	No error code	-
2	Detected by U13101	5.1V source is failing.
3	Detected by U13101	12.0V source is failing.
6	Pal/PIP module	Failure to communicate with the PAL/PIP module.
8	U16201	X-ray protection caused high voltage shutdown.
9	U16201	Power supply problem at reset/U16201.
10	PIP module error	Power supply problem at reset/PIP.
11	Stereo decoder	Power supply problem at reset/Stereo decoder.
12	Detected by U13101	A/V input to U13101 held low.
16	Detected by U13101	U13101 run IIC clock or data held low.
17	Detected by U13101	U13101 standby IIC clock or data held low.
34	Star Sight	Starsight fails to acknowledge.
44	U18100	PIP fails to acknowledge.
56	Digital convergence	Digital convergence fails to acknowledge.
64	Octal DAC	Octal DAC fails to acknowledge.
128	Stereo decoder	Stereo decoder fails to acknowledge.
130	Audio	Audio compressor fails to acknowledge.
134	Video matrix switch	Video matrix switch fails to acknowledge.
138	Pal/PIP module	Pal/PIP C1.
142	Pal/PIP module	Pal/PIP C2.
160	Main or PIP tuner EEPROM	Main or PIP tuner EEPROM fails to acknowledge.
186	U16201	U16201 fails to acknowledge.
192	PIP tuner PLL/DAC	PIP tuner PLL IC fails to acknowledge.
194	PIP tuner PLL/DAC	PIP tuner DAC IC fails to acknowledge.
196	Main tuner PLL/DAC	Main tuner PLL IC fails to acknowledge.
198	Main tuner PLL/DAC	Main tuner DAC IC fails to acknowledge.

ERROR CODES

If certain failures occur, the matching error codes will be stored in the EEPROM. These error codes will be displayed in parameters 1, 2, and 3. The first failure error code will be stored at parameter 1, and the second failure error code in parameter 2. Parameter 3 will be updated to display the most recent failure occurred in the chassis.

If a failure of a bus IC occurred, the normal acknowledgment checking of that bus will be disabled in the service mode and the address of that IC which failed will be stored in one of the error code parameters. After every repair is done to the chassis it is recommended to check the error code parameters, and reset them back to value 0.

PARTS LIST

SEMICONDUCTORS			
(Select the replacement that gives the best results.)			
Item No.	Type No.	Mfr. Part No.	ECG Part No.
CR11501, 02	-	232709	-
CR11503	-	215488	ECG136A
# CR11600	-	159429	ECG5019T1
CR11601	-	164717	ECG519
CR11701	-	223783	-
CR11950 (1) Thru	-		
CR11953 (1)	-	232709	-
CR12301	-	227051	-
CR12702	-	164717	ECG519
CR12703	-	232709	-
CR12901	-	232709	-
CR12902	-	164874	ECG177
CR13501	-	164874	ECG177
CR14102	-	176296	ECG552
CR14106	-	214653	-
	-	243636	-
CR14107	-	223339	-
CR14108	-	238099	-
CR14111	-	232709	-
CR14113	-	176296	ECG552
CR14115	-	217306	-
CR14116	-	223339	-
CR14201	-	164717	ECG519
# CR14210	-	214649	-
CR14302	-	164717	ECG519
CR14303	-	176296	ECG552
CR14401	-	140971	ECG558
CR14403	-	227291	-
CR14501	-	155276	ECG116
CR14603	-	139706	ECG177
CR14604	-	155276	ECG116
CR14701	-	241304	-
CR14702	-	164589	ECG580
CR14703	-	207878	ECG519
CR14704	-	237472	-
CR14705	-	237473	-
CR14800	-	164589	ECG580
# CR14901	-	157301	ECG177
# CR14902	-	159429	ECG5019T1
CR15101	-	228429	-
# CR15102, 03, 04	-	139706	ECG177
# CR15201	-	139706	ECG177
CR15202, 03	-	207878	ECG519
CR17101	-	255493	-
CR17102	-	211863	-
CR17103	-	215493	-
CR17104	-	233085	-
CR17105	-	211863	-
CR17106, 07	-	215493	-
CR17108	-	211863	-
CR17109, 10, 11	-	215493	-
CR17112	-	227082	-
CR17113	-	215493	-
CR17301	-	215493	-
CR17303, 04, 05	-	215492	-
CR17307	-	227082	-
CR17601, 02	-	227051	-
CR17701	-	215492	-
CR17702	-	211863	-
CR17703	-	215493	-
CR18101, 02	-	232709	-
CR26401	-	223651	-
CR26402	-	232709	-
CR26701 Thru	-		
CR26704	-	232709	-
CR26705	-	218987	-
CR26706, 07	-	232709	-
CR26901	-	220638	ECG5014A
CR26901A	-	220638	ECG5014A
CR26902	-	220638	ECG5014A
CR26902A	-	220638	ECG5014A
# For SAFETY use only equivalent replacement part.			
(1) Used in models PS36700YX1 and PS32700YX1.			

SEMICONDUCTORS continued			
(Select the replacement that gives the best results.)			
Item No.	Type No.	Mfr. Part No.	ECG Part No.
CR26903	-	220638	ECG5014A
CR26903A	-	220638	ECG5014A
CR26905	-	232710	-
Q11501	-	215495	-
Q11502	-	215496	-
Q11503, 08	-	215495	-
Q11509	-	215496	-
Q11600	-	177788	ECG31
Q11601, 02	-	215495	-
Q11900	-	215495	-
Q12301	-	215496	-
Q12302	-	219412	-
Q12701 Thru	-		
Q12705	-	215496	-
Q12901, 02, 03	-	215495	-
Q12904	-	215496	-
Q13101, 03	-	215496	-
Q13104	-	215495	-
Q13106	-	219412	-
Q13109	-	215496	-
Q13301	-	215496	-
Q13501	-	215496	-
Q13503	-	215495	-
Q14101	IRF740	237469	ECG2397
Q14275	-	219025	ECG159
Q14276	-	229220	-
Q14301	-	146851	ECG287
Q14302	-	215495	-
Q14401	-	237470	-
Q14501	-	215495	-
Q14502	-	215496	-
Q14503	-	215495	-
Q14802	-	217309	-
# Q14901	-	147665	ECG159
Q15101, 02, 03	BF421	227406	ECG399
Q15104, 05, 06	2SC3229	208434	ECG2501
Q15107	-	219025	ECG159
Q15108, 09, 10	BF420	226453	ECG399
Q15201 Thru	-		
Q15206	-	215495	-
Q15207	-	215496	-
Q15210	-	215495	-
Q15211	-	215496	-
Q15212	-	227405	-
Q15213	-	227404	-
Q17101	-	226973	-
Q17301	-	227008	-
Q17503, 04	-	215496	-
Q17505	-	231534	-
Q17601	-	226981	-
Q17801	-	226981	-
Q18100, 01	-	215495	-
Q18102	-	219412	-
Q18103, 04	-	215495	-
Q18105, 06	-	215496	-
Q18107, 08, 09	-	215495	-
Q18110, 11	-	215496	-
Q18112	-	215495	-
Q18113	-	215496	-
Q26401	-	215496	-
Q26402	-	215495	-
Q26403, 04, 05	-	215496	-
Q26408	-	215496	-
Q26409	-	215495	-
Q26701, 02	-	215495	-
Q26703	-	227814	-
Q26704	-	215496	-
Q26705	-	227814	-
Q26706	-	215496	-
Q26901	-	215496	-
Q26902, 03, 04	-	215495	-
# For SAFETY use only equivalent replacement part.			

SEMICONDUCTORS continued			
(Select the replacement that gives the best results.)			
Item No.	Type No.	Mfr. Part No.	ECG Part No.
U11401	-	237474	-
U11501 (1)	MC3403N	241785	ECG987
U11600	CXA2074S	237930	-
U11701	MC3403N	241785	ECG987
U11702	TL082CN	204292	-
U11901 (1)	-	239209	-
U11901 (2)	TDA7499	235446	-
U13101	ST9296N9B1/JBE	242620	-
	-	241760	-
U13102	ST24C08	241275	-
U14101	TDA4605	237476	-
U14104	L78S75CV	231526	-
U14275	UA741CN	237477	ECG941M
U14501	TDA8177	215531	-
U14601	L7852CV	241752	-
U14701	TDA8132	236646	-
# U14801	LM358WH	223682	-
# U16201	LA7612N	241266	-
U17501	-	231529	-
U17701	-	227007	-
U18100	M65616SP-A	241753	-
U18101	LM317T	214704	ECG956
U26401	-	241781	-
U26403	-	241783	-
U26404	-	237669	-
U26405	HC123A	239151	-
U26406	-	242867	-
U26701	-	218520	-
U26702	-	204292	-
U26901	TEA6415C	235447	-
PIP TUNER BOARD			
CR17101, 02, 03	-	215492	-
CR17105	-	215493	-
CR17106	-	233085	-
CR17107, 08	-	211863	-
CR17109, 10	-	215493	-
CR17111	-	211863	-
CR17112	-	215493	-
CR17113	-	233085	-
CR17114	-	215492	-
CR17301	-	215492	-
CR17302	-	211863	-
CR17303	-	215493	-
CR17304	-	215492	-
CR27901	-	227051	-
Q17101, 02	-	226973	-
Q17402	-	215496	-
Q17403	-	231534	-
Q17404	-	215496	-
Q27901, 02	-	215495	-
Q27903, 04	-	215496	-
Q27905	-	215495	-
Q27906, 08	-	215496	-
Q32101	-	219412	-
U17301	-	231528	-
U17401	-	231529	-
U27901	M52730ASP	236645	-
U27902	TDA8444P	204290	-
U27903	ST24C02	233181	-
U27904	LM393N	227341	ECG943M
U27905	TDA8132	236646	-
# For SAFETY use only equivalent replacement part.			
(1) Used in models PS36700YX1 and PS32700YX1.			
(2) Used in models PS36605YX2, PS36600YX1, and PS32600YX1.			

PARTS LIST continued

Important Parts Information

- 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

Or consult the Sams *Annual Index* for the address of the original equipment manufacturer.

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

- Philips ECG Company (ECG)
- Sencore, Inc.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C11612, 13	22pF 5% 50V NPO	194903
# C11614	1000µF 20% 16V	185867
C11704	560pF 5% 50V NPO	220155
C12310	120pF 5% 50V NPO	194902
C12701	120pF 5% 50V NPO	194902
C12803	13pF 5% 50V NPO	236629
C12901	330pF 5% 50V NPO	205227
C12902	220pF 5% 50V NPO	205551
C12903	360pF 5% 50V NPO	214034
C12906	82pF 5% 50V NPO	192049
C13103	100pF 5% 50V NPO	193340
C13106, 07	56pF 5% 50V NPO	214741
C13112	330pF 5% 50V NPO	205227
C13120, 21, 22	100pF 5% 50V NPO	193340
C13134	100pF 5% 50V NPO	195695
C13146, 47	100pF 5% 50V NPO	193340
C13153, 54	100pF 5% 50V NPO	193340
C13166	120pF 5% 50V NPO	174414
C13168	100pF 5% 50V NPO	193340
C13303 Thru C13306	33pF 5% 50V NPO	194911
C13308 Thru C13311	22pF 5% 50V NPO	194903
C13312	100pF 5% 50V NPO	193340
# C14105	33µF 5% 200V	217299
# C14107, 09	470pF 5% 2kV	227068
C14110	470pF 10% 500V NPO	227050
# C14122	.033 5% 630V	-
	.033 5% 400V	214747
# C14126	470pF 5% 2kV	227068
# C14136, 37	470pF 5% 2kV	227068
C14140, 41	470pF 10% 500V NPO	227050
# C14144	.01 10% 50V	240934
# C14145	100µF 20% 63V	237425
# C14146	.0068 10% 100V	232362
# C14147	1.5µF 20% 100V	214049
# C14202	.22 20% 250VAC	-
	.22 20% 125VAC	231451
# C14203, 04, 05	680pF 20% 1kV	190538
# C14206	470pF 250V	250102
	470pF 120V	-
# C14207	.005 20% 120V	195697
# C14208	680µF 20% 200V	190560
# C14209	.1 20% 250VAC	-
	.1 20% 125VAC	229322
# C14210	680pF 20% 1kV	190538
C14211, 12	470pF 10% 50V NPO	227050
	470pF 10% 500V NPO	-
C14303	470pF 5% 50V NPO	214732
# C14310	15pF 1% 250V NPO	223899
C14311	47pF 5% 50V NPO	210689
C14313, 14	100pF 5% 50V NPO	193340
C14401	470pF 5% 50V NPO	214732
# C14402	.015 1.6kV	206007
# C14403	.5 5% 250V	200150
# C14404	2.2µF 20% 200V	238291
# C14405	.0047 10% 250V	190534
# C14502	1500µF 20% 25V	227019
C14508	470pF 10% 50V NPO	192040
C14702, 04	680pF 10% 1kV	190538
C14707	470pF 10% 500V NPO	227050
C14710	.01 20% 1kV	137583
# C14716	470pF 5% 2kV	227068
# C14800	.043 5% 600V	220336
C15101	68pF 5% 50V NPO	145676
C15102	.001 10% 3kV	120696
C15105	27pF 5% 500V NPO	237517
C15202	120pF 5% 50V NPO	194902
C15203	100pF 5% 50V NPO	174412
C15209, 11	100pF 5% 50V NPO	143871
C15216	100pF 5% 500V NPO	227407
C15218	22pF 5% 50V NPO	194903

For SAFETY use only equivalent replacement part.

CAPACITORS & ELECTROLYTICS continued

Item No.	Rating	Mfr. Part No.
C17101	180pF 2% 50V NPO	241265
C17104	330pF 5% 50V NPO	205227
C17109	22pF 5% 50V NPO	194903
C17110	39pF 5% 50V NPO	181090
C17112	3pF ±.1pF 50V NPO	227088
C17113A	1.5pF ±.1pF 50V NPO	223146
C17115	330pF 5% 50V NPO	205227
C17117	39pF 5% 50V NPO	202905
C17118	180pF 5% 50V NPO	211039
C17123	20pF 5% 50V NPO	220150
C17124	39pF 5% 50V NPO	202905
C17126	150pF 5% 50V NPO	214032
C17127	39pF 5% 50V NPO	202905
C17210, 11, 12	100pF 5% 50V NPO	193340
C17214	100pF 5% 50V NPO	193340
C17302	27pF 5% 50V NPO	197604
C17305	27pF 5% 50V N750	214760
C17306	27pF 5% 50V NPO	197604
C17307	27pF NPO	-
	.001 10% 50V	192060
C17308	120pF 5% 50V NPO	194902
C17309	27pF 5% 50V NPO	197604
C17310	.75pF ±.1pF 50V NPO	227269
C17311	27pF 5% 50V N750	214760
C17312	18pF 2% 50V N220	227077
C17313, 14	470pF 5% 50V NPO	214732
C17316	27pF 5% 50V NPO	197604
C17502, 03	22pF 5% 50V NPO	194903
C17504	33pF 5% 50V NPO	194911
C17511	27pF 5% 50V NPO	197604
C17602	100pF 5% 50V NPO	193340
C17605	330pF 5% 50V NPO	205227
	100pF 5% 50V NPO	193340
C17607	33pF 5% 50V NPO	194911
C17608, 09	100pF 5% 50V NPO	193340
C17610	100pF 5% 50V NPO	193340
	.001 5% 50V	193340
C17611	27pF 5% 50V NPO	197604
C17615	100pF 5% 50V NPO	193340
C17701	1pF ±.1pF 50V NPO	227084
C17702	2pF ±.1pF 50V NPO	227074
C17703	2pF ±.1pF 50V N750	226965
C17704	1pF ±.1pF 50V NPO	227084
C17705	27pF 5% 50V N750	214760
C17707	1pF ±.1pF 50V NPO	227084
C17708	3pF ±.1pF 50V NPO	227088
C17709	68pF 5% 50V NPO	193339
C17710	3pF ±.1pF 50V NPO	227088
C17711	1pF ±.1pF 50V NPO	227084
C17712	3pF ±.1pF 50V NPO	227088
C17802	1pF ±.1pF 50V NPO	227084
C17804	470pF 5% 50V NPO	214732
C17807	91pF 5% 50V NPO	192057
C18103	100pF 5% 50V NPO	193340
C18104	220pF 5% 50V NPO	205551
C18112	10pF 5% 50V NPO	200537
C18114	20pF 5% 50V NPO	220150
C18122	47pF 5% 50V NPO	210689
C18124	100pF 5% 50V NPO	193340
C18127	18pF 5% 50V NPO	214028
C18129	100pF 5% 50V NPO	193340
C18134	82pF 5% 50V NPO	192049
C18137	220pF 5% 50V NPO	205551
C18138	330pF 5% 50V NPO	205227
C18139	27pF 5% 50V NPO	197604
C18142	91pF 5% 50V NPO	192057
C18143	82pF 5% 50V NPO	192049
C18155	22pF 5% 50V NPO	194903
C18156	18pF 5% 50V NPO	214028
C18157	82pF 5% 50V NPO	192049
C18158	10pF 5% 50V NPO	200537
C18159	120pF 5% 50V NPO	194902
C18160	150pF 5% 50V NPO	214032
C18162, 63	100pF 5% 50V NPO	193340

CAPACITORS & ELECTROLYTICS continued

Item No.	Rating	Mfr. Part No.
C18164	150pF 5% 50V NPO	214032
C18165, 66, 67	47pF 5% 50V NPO	210689
C18168	150pF 5% 50V NPO	214032
C26402	220pF 5% 50V NPO	205551
C26413 Thru C26416	56pF 2% 50V NPO	239136
C26417, 18	68pF 2% 50V NPO	214762
C26421	100pF 5% 50V NPO	193340
C26423	33pF 2% 50V NPO	239138
C26433, 35, 37	33pF 2% 50V NPO	239138
C26438	22pF 2% 50V NPO	223698
C26453	100pF 2% 50V NPO	227089
C26460	330pF 2% 50V NPO	241779
C26461	220pF 5% 50V NPO	205551
C26901, 02	10pF 5% 50V NPO	200537
C26916	2.2µF 20% 50V NP	190527

PIP TUNER BOARD

C17102	4pF ±.5pF 50V NPO	214757
C17103	22pF 5% 50V NPO	194903
C17105	.75pF ±.1pF 50V NPO	214758
C17108	27pF 5% 50V N750	214760
C17110	1.5pF ±.1pF 50V NPO	223146
C17117	2pF ±.1pF 50V NPO	194905
C17118	22pF 5% 50V NPO	194903
C17124	27pF 5% 50V NPO	197604
C17127	120pF 5% 50V NPO	194902
C17136	150pF 5% 50V NPO	214032
C17137	330pF 5% 50V NPO	205227
C17139	20pF 2% 50V N220	214761
C17140	2pF ±.25pF 50V NPO	194905
C17301, 02	1.5pF ±.5pF 50 NPO	194904
C17304	2pF ±.25pF 50V NPO	194905
C17305	75pF 5% 50V NPO	192061
C17307	20pF 5% 50V NPO	220150
C17308	5pF ±.25pF 50V N750	231457
C17309	10pF ±.25pF 50V N750	231458
C17310	8pF ±.5pF 50V N750	214766
C17311, 12	5pF ±.25pF 50V N750	231457
C17316	8pF ±.5pF 50V NPO	194909
C17320	330pF 5% 50V NPO	205227
C17322	24pF 2% NPO 50V	231459
C17323	6pF ±.25pF 50V NPO	227250
C17326	82pF 2% NPO 50V	231460
C17405	33pF 5% 50V NPO	194911
C17410, 11	10pF 5% 50V NPO	200537
C27905	680pF 5% 50V NPO	220344
C27907	13pF 5% 50V NPO	236629
C27908	33pF 5% 50V NPO	194911
C27913	220pF 5% 50V NPO	205551
C27921, 22	10pF 5% 50V NPO	200537
C27932	2pF ±.1pF 50V NPO	227074
C27937, 38	10pF 5% 50V NPO	200537

PARTS LIST continued

CONTROLS & RESISTORS		
Item No.	Function/Rating	Mfr. Part No.
# R11401, 03	2200 5% 1/4W	175042
# R11410	300 5% 1/4W	241257
# R11412, 21	2200 10% 1/4W	237429
# R11528, 29	100 5% 1/4W Nonflammable	198667
# R11610	10 5% 1/4W	241259
R11616	61.9K 1% 1/10W	225705
R11619	220 2% 1/4W	175324
# R11704, 25	10 5% 1/4W	220568
# R11910, 13	4.7 5% 1/4W Nonflammable	200197
R11950, 51 (1)	1000 1% 1/10W	214143
# R11955 (1)	3900 5% 1/4W	175890
R12208	27K 2% 1/10W	205245
R12209	30K 2% 1/10W	200176
R12302	620 2% 1/8W	181493
	680 2% 1/8W	178286
R12311, 12	120K 2% 1/10W	207834
R12314	750 2% 1/10W	202914
	680 2% 1/10W	195939
# R12709	27K 10% 1/2W	238958
R12730	931 1% 1/4W	227847
	845 1% 1/4W	234539
R12908	180 2% 1/10W	194918
R12912	56 2% 1/10W	205326
R12914	1300 2% 1/10W	205340
R13123	100K 1% 1/10W	215221
R13124	47.5K 1% 1/10W	237430
R13182	1000 2% 1/10W	197638
R13183	2700 2% 1/10W	197905
# R14106	8.2 5% 1/2W	120595
# R14107	1 5% 1/4W Nonflammable	241262
R14110	20K 5% 3W	237431
# R14125	36 5% 1/4W Nonflammable	241258
R14126	30K 5% 3W	238295
# R14135	18 5% 1/2W	241320
R14147	5490 .1% 1/4W	237434
R14149	169 .1% 1/4W	241751
	174 .1% 1/4W	237435
# R14153 (1)	470 5% 1W	241551
# R14153 (2)	2 5% 3W	237436
# R14170	10 5% 1/4W Nonflammable	241259
# R14200	120K 10% 1/2W	238903
# R14202	2.7M 10% 1/2W	217662
# R14275, 76	33 5% 1/4W	175754
R14282	18K 2% 1/8W	174366
# R14284	68 5% 1/4W	175039
# R14305	2700 2% 3W	243743
	3600 2% 3W	181235
R14307	1500 2% 1/10W	192082
# R14401	15K 5% 1W	190557
# R14403	820 5% 1W	175349
R14504	5100 2% 1/8W	240939
# R14507	1.5 5% 2W	237441
R14510	510 2% 1/4W	-
	510 5% 1/4W	240937
# R14511	1 10% 2W Wirewound	215577
# R14515	330 5% 2W	227409
# R14517	18 5% 1W	239258
# R14604	3.3 5% 2W Nonflammable	223680
# R14701	10 20% 1/2W	241261
# R14703	1 5% 2W	145384
	.56 5% 2W	239115
# R14704	82K 10% 1/2W	239116
# R14705	1 5% 1/4W Nonflammable	241262
# R14716	27 5% 3W Wirewound	237443
# R14802	100 5% 1/4W Nonflammable	198667
R14803	28K 1% 1/4W	195731
R14806	40.2K 1% 1/4W	219026
# R14808	1000 5% 1/4W	237444
# R14810	1 5% 1W	233165
# For SAFETY use only equivalent replacement part.		
(1) Used in models PS36700YX1 and PS32700YX1.		
(2) Used in models PS36605YX2, PS36600YX1, and PS32600YX1.		

CONTROLS & RESISTORS continued		
Item No.	Function/Rating	Mfr. Part No.
# R14901	100 5% 1/4W Nonflammable	198667
	22 5% 1/4W Nonflammable	241921
# R14907	26.7K 1% 1/4W	196081
	29.4K 1% 1/4W	197519
# R14908	41.2K 1% 1/4W	176500
	39.2K 1% 1/4W	190469
R14909	5100 2% 1/4W	175417
# R15102	56K 5% 1/4W	176801
# R15103	1200 5% 1W	179782
# R15107	2.2 5% 3W Wirewound	227091
	1.5 5% 3W Wirewound	237519
# R15114	100 5% 1/4W	210245
# R15119	510 5% 1/4W	237520
# R15121, 22, 23	100 5% 1/2W	176796
R15201, 04	680 2% 1/8W	178286
R15209	1600 2% 1/8W	182824
R15210	82 2% 1/10W	205329
R15213	1500 2% 1/8W	181482
R15215	10K 2% 1/8W	174364
R15216	2700 2% 1/8W	181064
# R15217	100 5% 1/4W Nonflammable	198667
# R15224	15 5% 1/2W	241313
# R15230	1000 2% 1/2W	175055
R15231, 32	100K 2% 1/2W	227408
# R15233	75 5% 1/4W	242194
	68 5% 1/4W	242195
# R15234	5.6 5% 1/2W	227403
R15235	1000 2% 1/4W	175055
# R15236	68 5% 1W	237521
# R15237	5.6 5% 1/2W	227403
# R15239	220 5% 2W	175310
# R15240	430 5% 2W Wirewound	237522
R17102	1200 2% 1/10W	194920
R17107	470K 2% 1/10W	205381
R17112, 14	1200 2% 1/10W	194920
R17306	82K 2% 1/10W	197906
R17307	51K 2% 1/10W	205365
R17309, 17	91 2% 1/10W	205330
R17505, 08	47K 2% 1/10W	205364
R17605	470 2% 1/10W	194926
R17609	51K 2% 1/10W	205365
R17704, 06	51K 2% 1/10W	205365
R17708	1200 2% 1/10W	194920
R18114, 17	360 2% 1/10W	205337
R18121	180 2% 1/10W	194918
R18123	360 2% 1/10W	205337
# R18125	15 5% 3W Wirewound	237447
R18126	392 1% 1/8W	234552
	412 1% 1/8W	238100
R18127	243 1% 1/10W	214132
R26462	357K 1% 1/10W	241780
# R26705, 07	2200 10% 1/4W	237429
R26743	10K 1% 1/4W	241787
R26744	11K 1% 1/10W	241789
R26745	10K 1% 1/4W	241787
R26746	11K 1% 1/10W	241789
R26747 Thru		
R26750	10K 1% 1/10W	215217
R26920, 21, 24	560 2% 1/8W	182822
R26925	560 2% 1/10W	205338
R26928	560 2% 1/8W	182822
R26929	560 2% 1/10W	205338
R26932	560 2% 1/8W	182822
R26933	560 2% 1/10W	205338
RN14501	Resistor Network	215499
# RT14201	8 Cold PTC	207768
# For SAFETY use only equivalent replacement part.		

CONTROLS & RESISTORS continued		
Item No.	Function/Rating	Mfr. Part No.
PIP TUNER BOARD		
R27907	10K 2% 1/10W	195937
R27908	20K 2% 1/10W	197904
R27918	330 2% 1/10W	195929
R27920	1000 1% 1/10W	214143
R27922	1500 2% 1/10W	192082
R27923	1000 1% 1/10W	214143
R27924	2000 1% 1/10W	223788
R27925	1400 1% 1/10W	236639
R27938	8200 2% 1/10W	205349
# R27943	8.2 5% 1/2W	237540
# R27944	51 5% 2W	237541
# For SAFETY use only equivalent replacement part.		

CABINET PARTS	
Item	Mfr. Part No.
Models PS32600YX1, PS32700YX1	
A/V In Jack Door	243606
Back Cover	MK2210
Housing FPA W/Buttons	243585
Grille Cloth Left	243394
Grille Cloth Right	243393
Jack Panel	243556
Logo (PROSCAN)	243586
Mask	MK2200
Overlay Circuit A/V In Jacks	243587
Overlay Jack Panel	242606
Rear Cover	BK2210
# Tray Chassis	243557
Models PS36600YX1, PS36700YX1	
A/V In Jack Door	243606
Housing FPA W/Buttons	243585
Grille Cloth Left	243311
Grille Cloth Right	243310
Jack Panel	243556
Logo (PROSCAN)	243586
Mask & Back Assembly	MK2198
Overlay Circuit A/V In Jacks	243587
Overlay Jack Panel	242606
Rear Cover	BK2225
# Tray Chassis	243557
Model PS36605YX2	
Housing FPA W/Buttons	243627
Jack Panel	242607
Logo (PROSCAN)	226354
Mask & Basic	MK2207
Overlay Jack Panel	242606
Rear Cover	BK2208
# Tray Chassis	241276
Window IR	240954
Remote Transmitter	
Battery Door	243424
# For SAFETY use only equivalent replacement	

PARTS LIST continued

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
# DY1 (1)	Yoke Horiz .95mH Vert 17.5mH	-
FB11901	Ferrite Bead	227410
FB12701	Ferrite Bead	227410
FB12901	Ferrite Bead	223785
FB13101	Ferrite Bead	226467
FB14105	Ferrite Bead	215547
FB14106, 07	Ferrite Bead	237504
FB14108	Ferrite Bead	237504
FB14114, 15	Ferrite Bead	237504
FB14118, 19	Ferrite Bead	237504
FB14120	Ferrite Bead	226467
FB14402	Ferrite Bead	229324
FB14800	Ferrite Bead	232765
FB15201, 02	Ferrite Bead	226467
FB15203	Ferrite Bead	227410
FB17201, 02, 03	Ferrite Bead	215546
FB17601	Ferrite Bead	215546
FB26401, 02	Ferrite Bead	226467
FB27901	Ferrite Bead	215547
L12302	VCO	215502
L12303	FM Detect	233056
L12304	10µH	160518
L13101 Thru		
L13104	33µH	237450
L13105	4.7µH	237451
L13107	27µH	190017
L14102	22µH	215504
L14200 (2)	Degaussing	225836
L14200 (3)	Degaussing	237932
# L14201	Line Filter	190507
L14401	4µH	215505
# L14402	17.5µH Horizontal Linearity	210895
L14601	10µH	175409
L14702	47µH	190729
L14801	390µH	237452
L15101	47µH	195713
L15202	100µH	161243
L16501	220µH	195707
L17101	-	237456
L17102	-	227003
L17103	-	227005
L17104	-	226992
L17105	-	227006
L17106	3.9µH	200559
L17107	-	226987
L17108	-	237457
L17109	-	226993
L17110	-	226994
L17111	-	226998
L17112	-	237458
L17113	-	227000
L17114	-	237459
L17115	-	227000
L17116	-	237460
L17117, 18	-	237461
L17301	-	237462
L17302	-	226988
L17303	-	227005
L17304	-	237464
L17305	-	237465
L17306	-	226990
L17307	-	226991
L17308	-	237466
L17601, 02	-	226999
L17603	-	237467
L17604	-	237468
L17701, 02	-	226986

For SAFETY use only equivalent replacement part.
(1) Bonded part of CRT.
(2) Used in models PS36600YX1, PS36605YX2, and PS36700YX1.
(3) Used in models PS32600YX1 and PS32700YX1.

COILS & TRANSFORMERS continued

Item No.	Function/Rating	Mfr. Part No.
L17703	-	226989
L17704	-	226996
L17801	-	226987
L17802	-	226996
L17803	-	237461
L18100	15µH	197613
L18101	18µH	195711
L18102	5.6µH	227886
L18103	8.2µH	149170
L18104	10µH	160518
L18105	12µH	210687
L18106	27µH	190017
L18107	15µH	197613
L18108	5.6µH	227886
L18109	4.7µH	197614
L18110	10µH	207880
L18112	10µH	235445
L26401	2.2µH	197616
L26402, 03	2.2µH	239143
L26409	2.2µH	197616
L26901	100µH	160186
SVM	-	237831
# T14101 (4)	SMT	243745
# T14101 (5)	SMT	241754
# T14301	Horizontal Drive	215541
# T14401 (6)	Horizontal Output	241319
T17801	Splitter	237503

PIP TUNER BOARD

FB27901	Ferrite Bead	215547
FL17102	Filter	181470
L17101	-	215507
L17102	-	236641
L17103	-	223929
L17104, 05	-	223917
L17106	-	215507
L17107	-	233057
L17108	-	233074
L17109	-	200559
L17110	-	233075
L17111	-	233076
L17112	-	231441
L17113	-	233077
L17114	-	231441
L17115	-	233078
L17301	-	231443
L17302	-	231444
L17303	-	233079
L17304	-	233080
L17305	-	236643
L17306	-	231448
L27903	15µH	197613
L27904	-	236644
L27906, 07, 08	-	190017

For SAFETY use only equivalent replacement part.
(4) Used in models PS36700YX1 and PSE2700YX1.
(5) Used in models PS36600YX1, PS36605YX1, and PS32600YX1.
(6) Screen and focus controls are part of T14401.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF12302	Filter	195702	4.5MHz
CF12303	Trap	238296	4.5MHz
DL15201	Delay Line	237539	-
# F14201	Fuse	175425	5A, 125V, Fast Acting
IR13401	Receiver	237682	Remote
J17801	Jack	215543	75 RF Input
J17802	Jack	237538	RF Output
J23903	Jack	241776	S Video 2 Input
J23904	Jack	227334	Gemstar IR Output
J26701	Jack	227348	Audio Input 2 Left/Mono
J26702	Jack	227347	Audio Input 2 Right
J26901	Jack	239389	Assembly
J26902	Jack	226298	Assembly
J26903	Jack	237510	S Video Input
# K14201	Relay	190490	Degaussing
# KS15101	Socket	233120	CRT
# P14201	Line Cord	241251	AC, Polarized
	Line Cord	225766	AC, Polarized
SF12301	Filter	217318	SAW
SP1, 2 (1)(4)	Speaker	234543	2 1/4", X 5", 8 Ohms, 5W
SP1, 2 (2)(3)	Speaker	225641	2 1/4" X 5", 8 Ohms, 5W
SP1, 2 (5)	Speaker	204951	5", 8 Ohms
SP1, 2 (5)	Speaker	205260	2", 8 Ohms
SW11901	Switch	211982	Speaker (Internal/External)
SW13410	Switch	237537	Channel Up
SW13412	Switch	237537	Power
SW13420	Switch	237537	Channel Down
SW13421	Switch	237537	Volume Up
SW13430	Switch	237537	Menu
SW13431	Switch	237537	Volume Down
# V101 (1)(5)	CRT	A90AEJ1610	A90AEJ16X10
# V101 (2)	CRT	A90AFX1610	A90AFX16X10
# V101 (3)	CRT	HA80EDM169	A80EDM16X09
# V101 (4)	CRT	HA80AEJ169	A90AEJ16X09
Y12801	Crystal	161235	3.58MHz
Y13101	Crystal	230708	4MHz
Y14300	Resonator	227064	507kHz
Y17501	Crystal	230708	4MHz
Y18100	Crystal	197652	14.318MHz
Y26401	Filter	241784	4.03MHz
	Fuse Holder	176642	For F14201 (2 Used)
	PC Board (1)(2)	243588	A/V In Jacks
	PC Board (2)(3)	241314	Aud/SRS 10W
	PC Board	237511	CRT
	PC Board	243600	Front Panel
	PC Board	241271	Gemstar 3
	PC Board	241315	In/Out
	PC Board	242728	PIP Tuner
	PC Board (1)(4)(5)	241270	SRS Audio
	Transmitter	240896	Remote, CRK76TBL1

PIP TUNER BOARD

CF27901	Trap	181125	4.5MHz
SF27901	Filter	217318	SAW
Y17401	Crystal	230708	4MHz
	PC Board	242728	PIP Tuner

For SAFETY use only equivalent replacement part.
(1) Used in model PS36600YX1.
(2) Used in model PS36700YX1.
(3) Used in model PS32700YX1.
(4) Used in model PS32600YX1.
(5) Used in model PS36605YX2.

RCA

MODEL PS36700YX1 (CHASSIS CTC197CJ3)