

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 set, turn set on, and adjust brightness and contrast to maximum. Short XRP-1 to XRP-2. The set should shut down and then cycle on and off. If the set does not shut down and then cycle on and off, the shutdown circuit requires repair. To resume normal operation remove the short from XRP-1 to XRP-2.

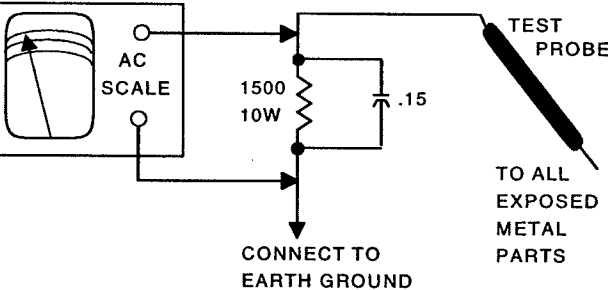
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



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

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PHOTOFACT® Technical Service Data

4491

SET 4491

MODEL PS35152FX1 (CHASSIS CTC169BJ5)

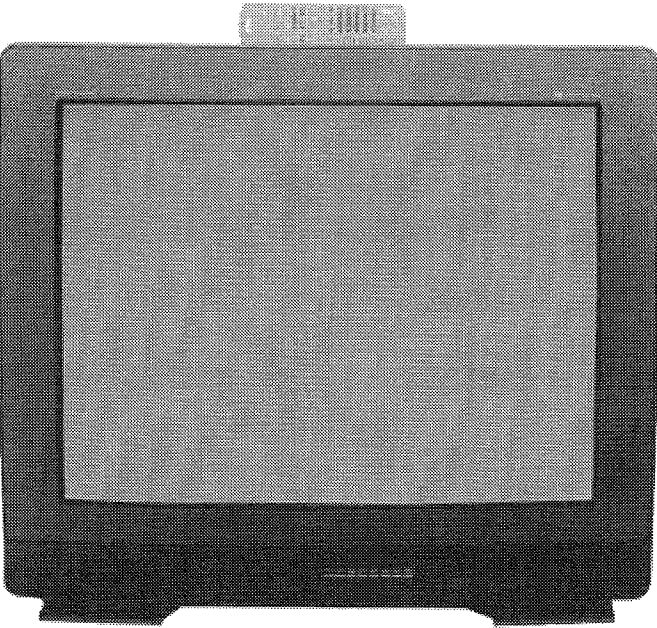
PROSCAN

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PROSCAN

Model PS35152FX1 (Chassis CTC169BJ5)



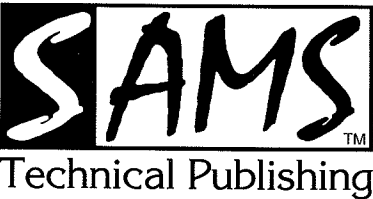
Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
PS35152JX1	CTC169BJ5
PS35153FM1	CTC169BJ5
PS35653LW1	CTC169BJ5



SEPTEMBER 2001 SET 4491

For Supplier Address,
See PHOTOFACT Annual Index

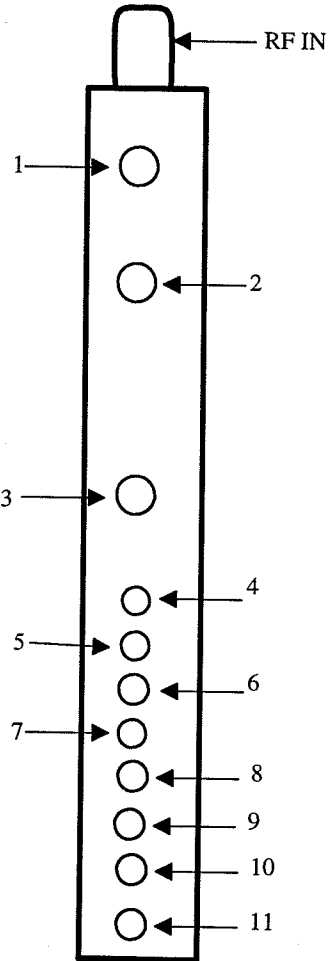
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
1 (AGC)	5.4V	4.1V	7.9V
2 (+12V)	12.0V	12.0V	12.0V
3 (IF)	11.7V	11.6V	11.7V
4 (+33V)	33.0V	33.0V	33.0V
5 (-12V)	-12.0V	-12.0V	-12.0V
6 (+5V)	5.0V	5.0V	5.0V
7 (SDA)	5.0V	5.0V	5.0V
8 (SCK)	5.0V	5.0V	5.0V
9 (NC)	0.0V	0.0V	0.0V
10 (LOGIC)	0.0V	0.0V	0.0V
11 (B+)	12.0V	12.0V	12.0V

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

TUNER TERMINAL GUIDE



MISCELLANEOUS ADJUSTMENTS

B+ STANDBY

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a voltmeter to the cathode of CR4116. With 120VAC line input, adjust R4113 for 140V \pm .5V.

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 must measure 27.5kV to 30kV. High voltage must never exceed 30kV.

RF AGC

NOTE: R2311 should not require adjustment unless the tuner, U1001, or R2311 has been replaced.

Tune in the weakest local station. Adjust R2311 fully counterclockwise, and then clockwise for best picture. Check all other available channels for proper adjustment.

CONTRAST PRESET

Tune in a crosshatch pattern. Set brightness and color to minimum, contrast to midrange. Adjust R2730 to a point where highlights are visible.

TINT PRESET

Tune in an active channel. Adjust R2816 for proper flesh tones.

HORIZONTAL PHASE

Tune in a crosshatch pattern. Adjust R4306 to center the pattern horizontally.

VERTICAL HEIGHT

Tune in a crosshatch pattern. Adjust R4522 for slight over scan on top and bottom.

PINCUSHION

Tune in a crosshatch pattern. Adjust R4805 for straight vertical lines at the top and bottom of the screen. Adjust R4802 for a slight overscan.

SUB BRIGHTNESS

Tune in a crosshatch pattern. Set contrast, brightness, and color to minimum. Adjust R3346 for faintly visible highlights. Set contrast, brightness, and color to maximum. Check for blooming, readjust if necessary.

CHROMA FILTER

Tune in a color bar pattern. Adjust R2802 for the proper color display.

COMB FILTER

Tune in a color bar pattern. Connect oscilloscope to pin 7 of U2601. Adjust R2603 and L2601 for minimum level of chroma burst on the waveform.

COLOR TEMPERATURE

Tune in a crosshatch pattern. Set color, contrast, R2913, R2917, R2921, and screen control to minimum. Set R2926, R2928, and brightness to midrange. Obtain a service line by shorting the collector of Q4505 to ground. Advance screen control until a line of one predominate color is just visible. Adjust R2913, R2917, and R2921 to obtain a white line. Set brightness and contrast to

maximum. Adjust R2926 and R2928 for best black and white picture. Check tracking at low and high brightness.

SYNC LEVEL

Tune in a color bar signal. Connect an oscilloscope to the emitter of Q6416. Adjust R6448 for 1.8V p-p waveform.

CONVERGENCE/ PURITY

The deflection yoke is bonded to the CRT. Purity and convergence adjustments are not required.

STEREO ADJUSTMENTS

NOTE: Adjustments were made using a TV/stereo generator connected to the antenna terminals. Set receiver to stereo mode.

WIDE BAND AUDIO LEVEL

Select 300Hz audio frequency, and L+R modulating signal. Connect oscilloscope to TP1205. Adjust R1204 for .3Vp-p.

STEREO/SAP FILTER

Select SAP, 1kHz audio frequency, and L+R modulating signal. Connect oscilloscope to pin 3 of U1600. Adjust R1604 for minimum indication.

STEREO VCO

Select pilot, 1kHz audio frequency, and L+R modulating signal. Connect a digital voltmeter to pin 42 of U1600. Adjust R1616 for 1.3V.

BASE BAND FILTER (LPF)

Remove power and unsolder jumper wire JW212. Connect an audio generator to TP212. Apply AC power, and set the frequency on the audio generator for 15734Hz. Short pin 39 to pin 40 of U1600. Connect oscilloscope to pin 39 of U1600. Adjust R1606 for minimum response. Remove short and reconnect jumper wire JW212 to the circuit.

SEPARATION

Select pilot, 300Hz audio frequency, and right modulating signal. Connect an oscilloscope to pin 35 of U1600, adjust R1609 for minimum amplitude. Change audio frequency to 8kHz. Adjust R1611 for minimum amplitude. Repeat process until no further decrease in the waveform amplitude is obtained.

PIP ADJUSTMENTS

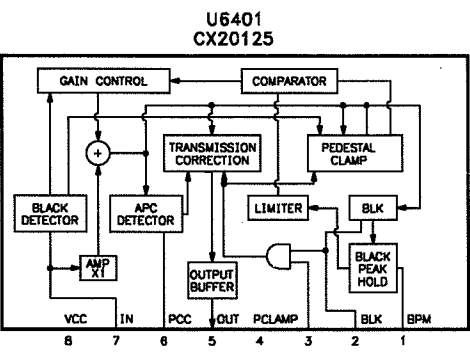
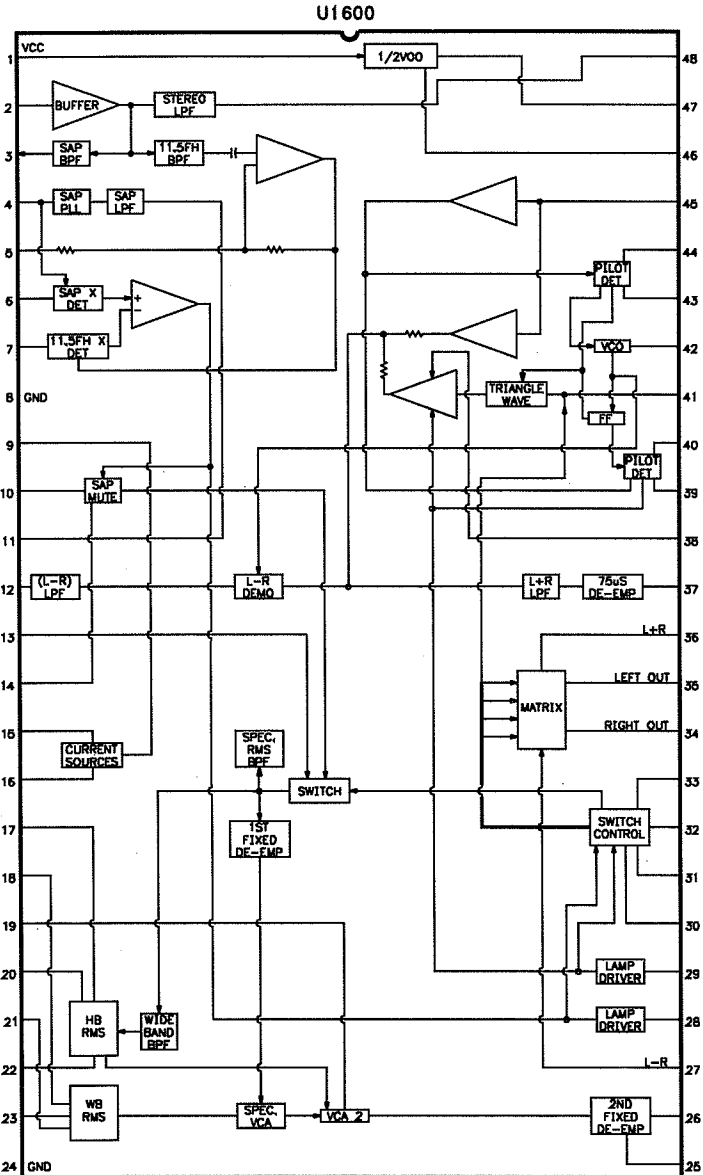
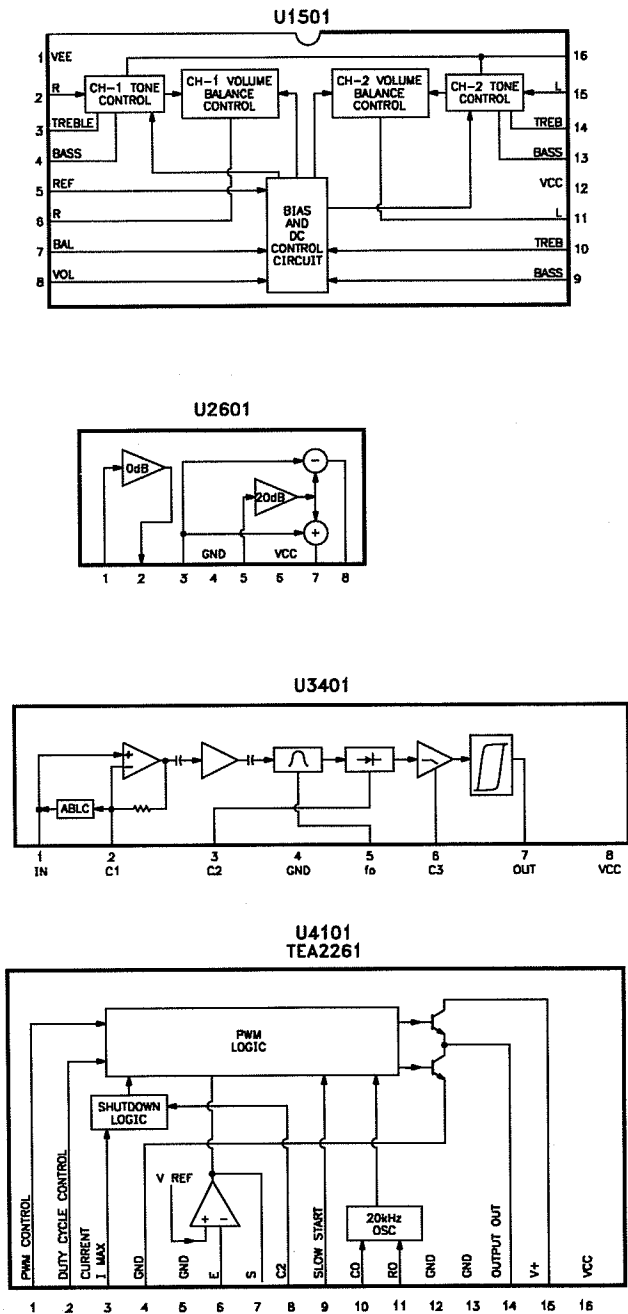
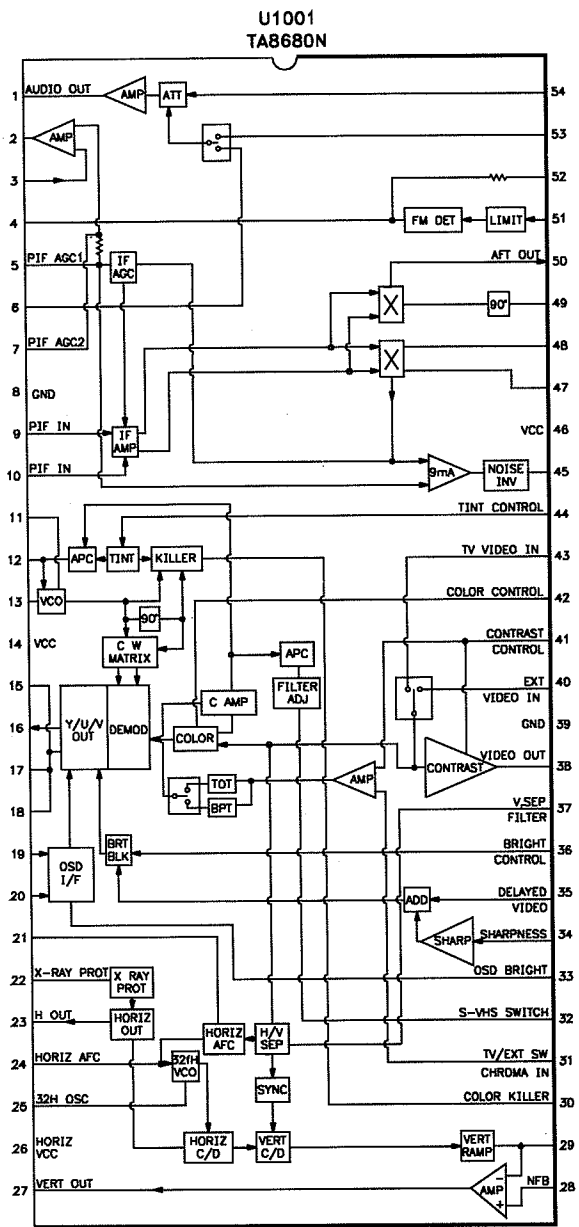
LUMINANCE REFERENCE LEVEL

Tune in a color bar signal. Select PIP mode to display the color bar signal on the main and PIP picture. Set color level on menu to minimum. Adjust R8031 for equal luminance levels on both the main and PIP picture.

CHROMA REFERENCE LEVEL

Tune in a color bar signal. Select PIP mode to display the color bar signal on the main and PIP picture. Tune in a color picture off the air, adjust R8037 for equal color levels on both the main and PIP picture.

IC FUNCTIONS



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

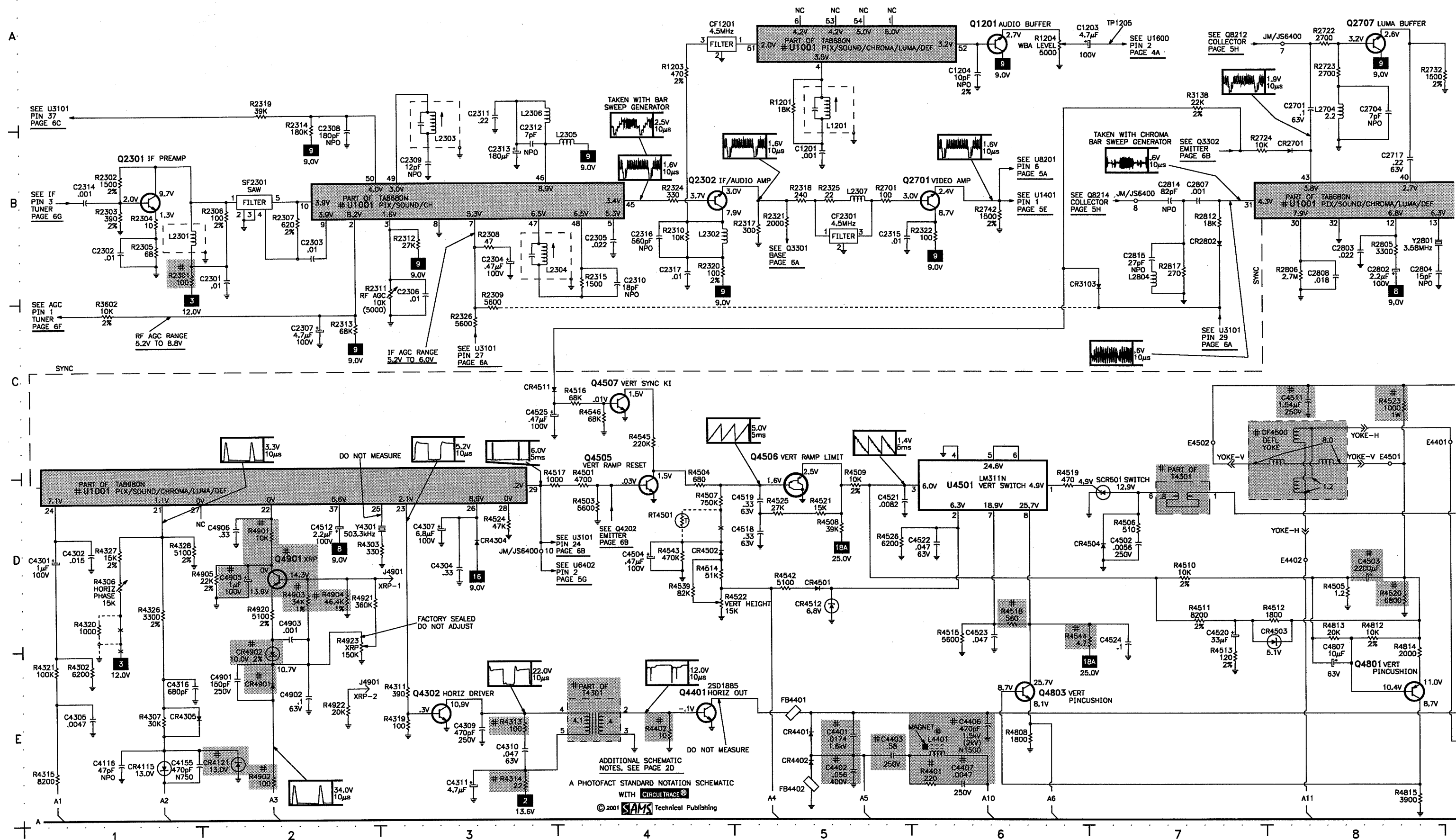
Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

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

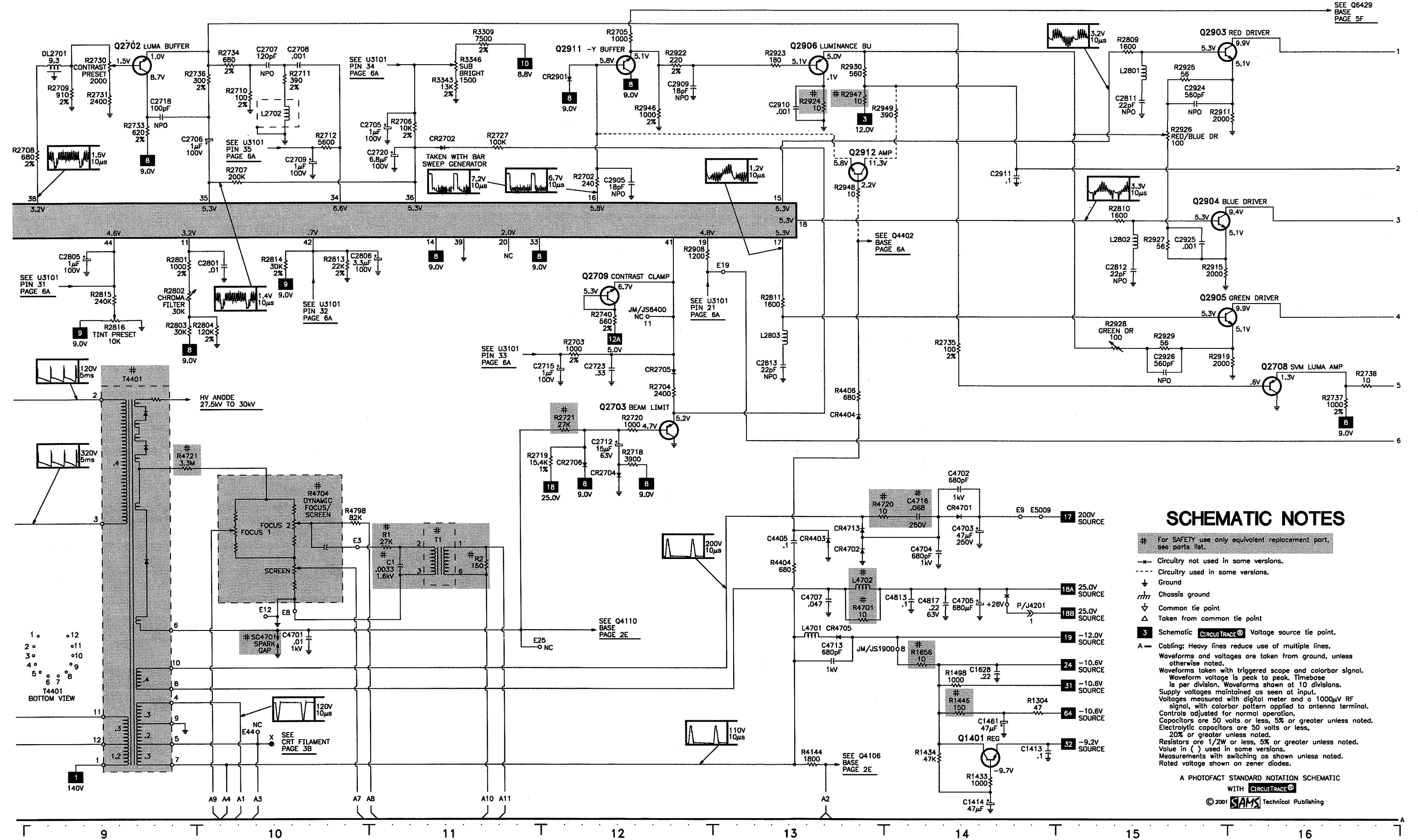
TEST EQUIPMENT

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

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



TELEVISION SCHEMATIC continued



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 CIRCUITRACE® 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.
- Rated voltage shown on zener diodes.

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

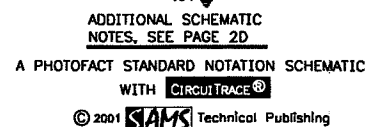
F



G

VERTICAL CIRCUIT

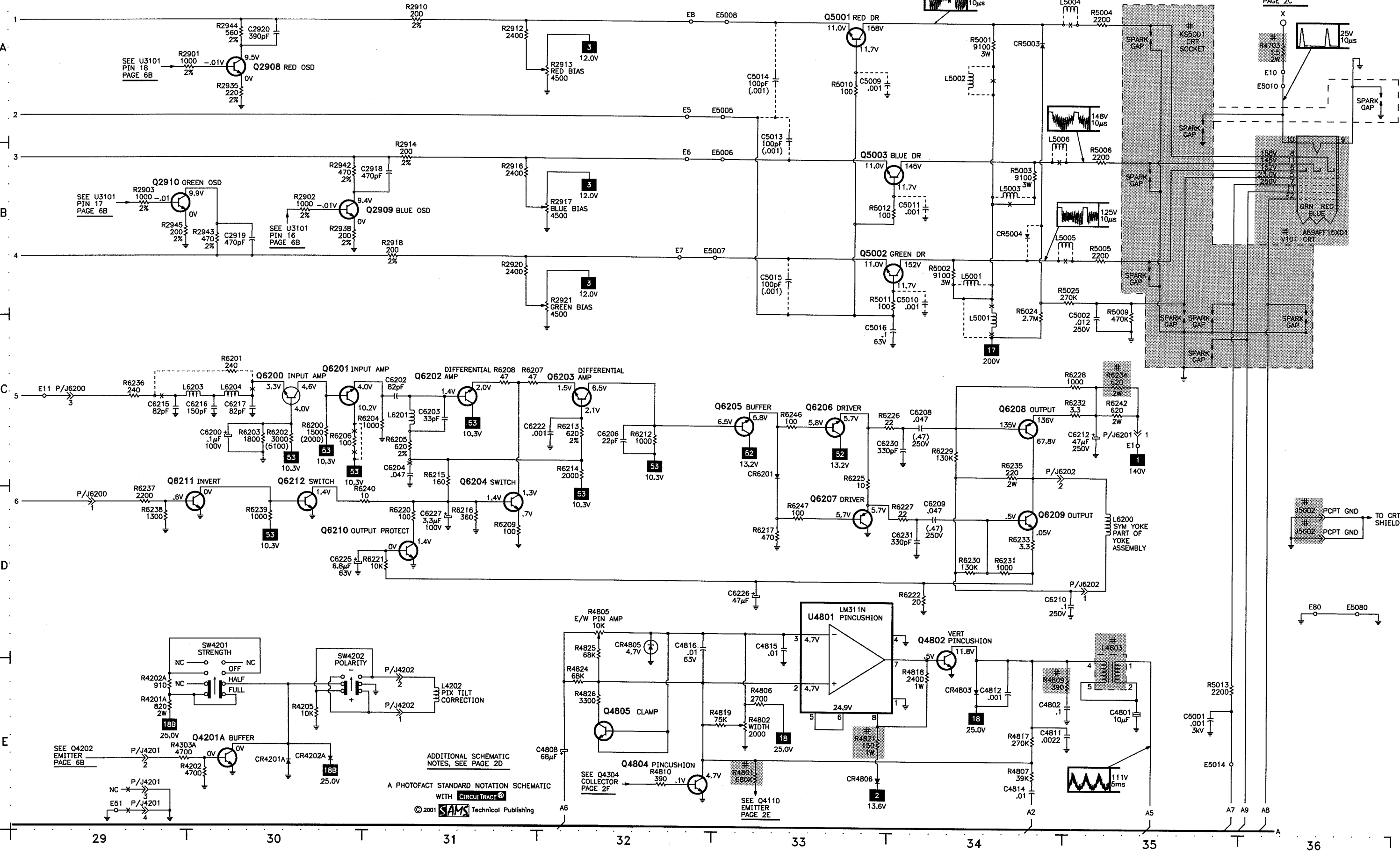
PROSCAN **MODEL PS35152FX1 (CHASSIS CTC169BuJ5)**



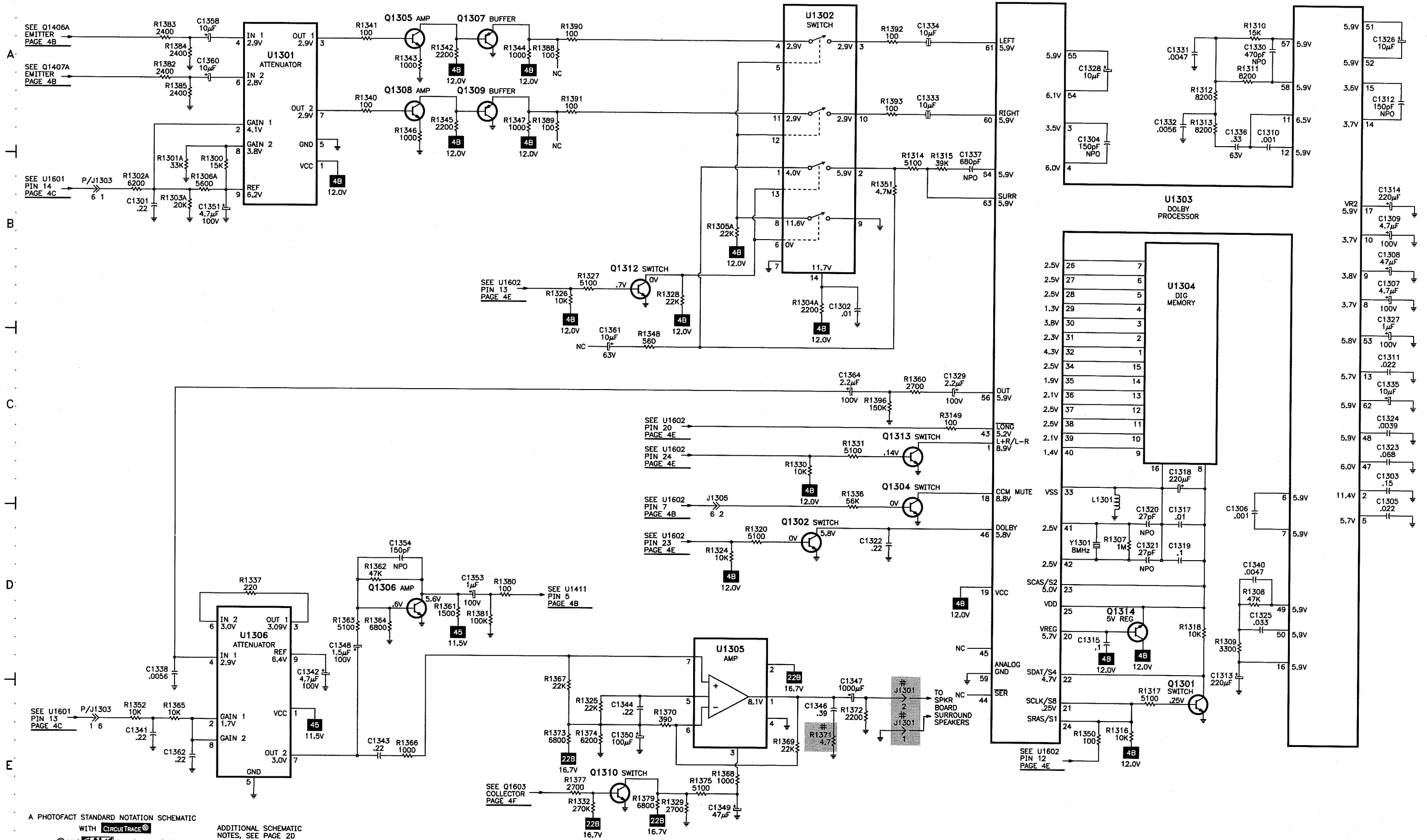
A

B

CRT SCHEMATIC



SURROUND AUDIO SCHEMATIC



A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE®
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ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2D

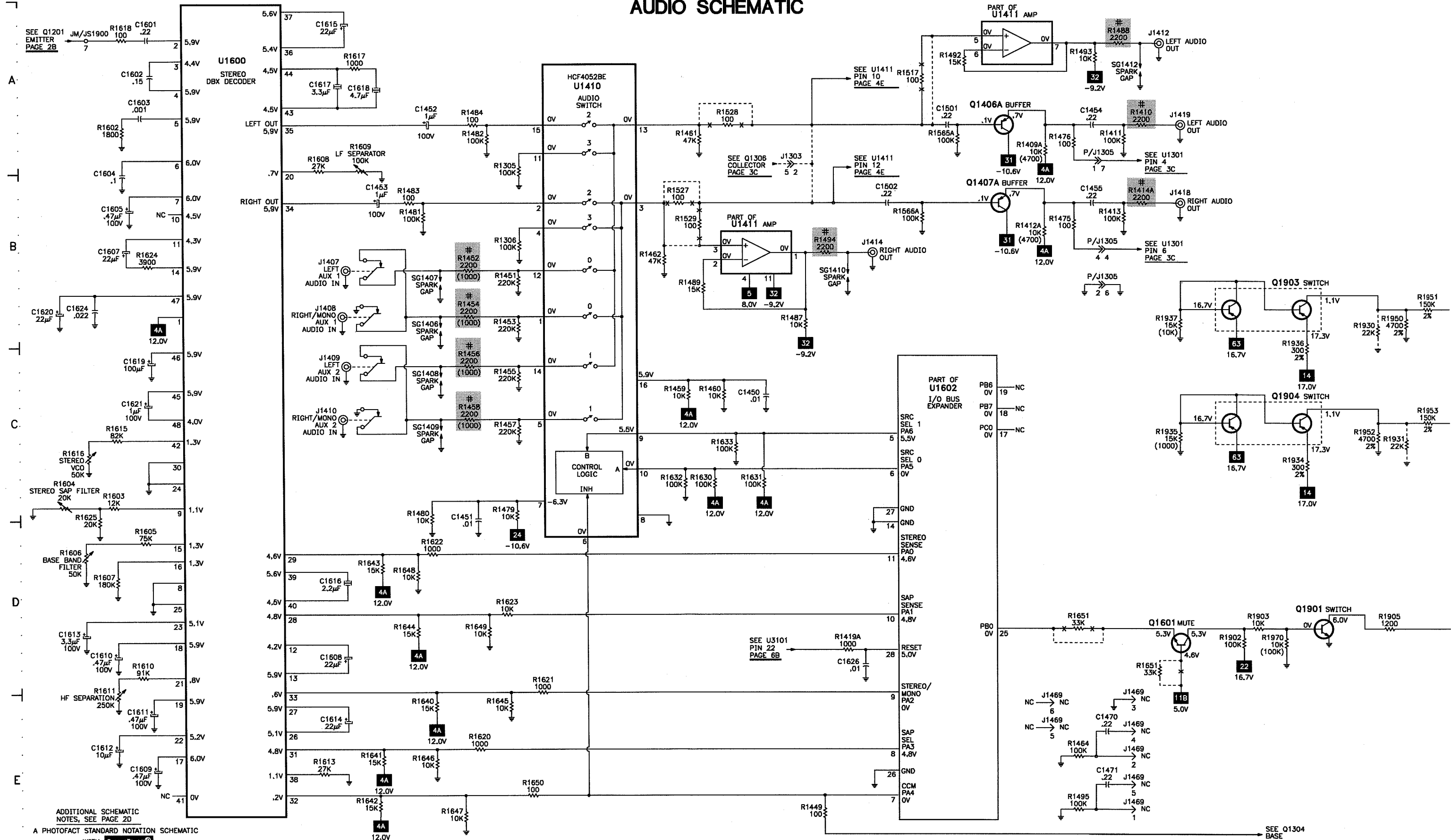
SCHEMATIC COMPONENT LOCATION GUIDE

C1	D11	C1411A	C95	C1705	C72	C1867	A67	C2723	C12	C3321	E114	C4502	D7	C6402	D98	C8206	B78	C8410	D92	C8544	E87	CR4503	E7	L2307	B5	Q1403	D95	Q4301	E24	Q8210	B105	R1324	D40
C1201	B5	C1412	B28	C1706	A70	C1868	A67	C2724	A93	C3322	D111	C4503	D8	C6403	D96	C8207	A79	C8411	D92	C8901	E80	CR4504	D7	L2702	A10	Q1403A	E54	Q4302	E3	Q8211	D106	R1325	E40
C1203	A6	C1412A	B95	C1707	B69	C1869	B66	C2801	B10	C3323	D110	C4504	D4	C6404	D96	C8207	A79	C8412	C92	C8902	D79	CR4511	C3	L2704	B8	Q1404	E55	Q4304	E23	Q8212	D107	R1326	B40
C1204	A6	C1413	E14	C1708	D73	C1870	B66	C2802	B8	C3401	B109	C4511	C8	C6406	D98	C8208	B81	C8413	D91	C8903	D80	CR4512	D5	L2705	E27	Q1405	E55	Q4305	E24	Q8213	D106	R1327	B40
C1301	B37	C1414	E14	C1709	C25	C1871	A67	C2803	B8	C3402	B109	C4512	D2	C6407	B23	C8209	B81	C8414	D91	C8905	D80	CR4606	C23	L2706	B23	Q1406	A96	Q4306	E22	Q8214	D107	R1328	B40
C1302	B41	C1450	C49	C1710	D70	C1872	A67	C2804	B8	C3403	B109	C4518	D5	C6408	C97	C8210	D27	C8414	D91	C8906	E80	CR4701	D14	L2801	A15	Q1406A	A50	Q4401	E4	Q8219	D81	R1329	E40
C1303	C44	C1451	D47	C1711	C73	C1873	B67	C2805	B9	C3404	B110	C4519	D5	C6409	D98	C8211	B81	C8415	D91	CF1201	A4	CR4702	D13	L2802	B15	Q1406B	C65	Q4402	D112	Q8220	B80	R1330	C41
C1304	B42	C1452	A47	C1712	B73	C1874	B67	C2806	B11	C3406	B110	C4520	D7	C6410	B97	C8212	B81	C8416	C91	CF2301	B5	CR4705	D13	L2803	C13	Q1407	C64	Q4505	D4	Q8221	B105	R1331	C41
C1305	D44	C1453	B46	C1713	E69	C1875	A66	C2807	B7	C3602	B24	C4521	D5	C6411	D96	C8213	A81	C8417	D92	CR1301	C27	CR4709	C23	L2804	B7	Q1407A	B50	Q4506	D5	Q8301	B86	R1332	E40
C1306	D43	C1454	A50	C1714	E69	C1876	A66	C2808	B8	C3603	C116	C4522	D6	C6412	D96	C8214	A81	C8419	C91	CR1302	C25	CR4710	C23	L3101	B111	Q1500	C61	Q4507	C4	Q8302	A87	R1336	D41
C1307	B44	C1455	B50	C1715	E69	C1877	B67	C2809	E28	C3604	C116	C4523	D6	C6413	C97	C8215	D27	C8421	E89	CR1303	C25	CR4712	D25	L3601	C115	Q1501	A56	Q4601	C23	Q8303	B85	R1337	D38
C1308	B44	C1456	D54	C1716	D69	C1878	B67	C2810	E28	C3605	B28	C4524	D7	C6414	B96	C8216	B80	C8422	D27	CR1401	B94	CR4713	D13	L3602	C116	Q1502	B56	Q4702	B26	Q8304	B86	R1340	A38
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C1310	B44	C1458	E55	C1718	B72	C1880	A66	C2812	B15	C4002	A18	C4610	C22	C6416	B96	C8218	C80	C8426	B91	CR1403	C95	CR4805	D32	L4201	B18	Q1504	B61	Q4704	E26	Q8306	A83	R1342	A39
C1311	C44	C1459	E55	C1719	A72	C1881	A68	C2813	C13	C4005	A18	C4611	C23	C6417	D97	C8219	C78	C8427	B90	CR1404	A94	CR4806	E33	L4202	E31	Q1507	B61	Q4705	D25	Q8401	E89	R1343	A39
C1312	A44	C1460	B27	C1720	D73	C1882	B68	C2814	B7	C4007	A19	C4612	C24	C6418	B23	C8220	C79	C8428	C90	CR1405	D96	CR4901	E2	L4401	E6	Q1551	B62	Q4801	E8	Q8402	E92	R1344	A39
C1313	D43	C1461	E14	C1721	C72	C1886	B28	C2815	B7	C4008	B19	C4701	D10	C6419	B24	C8221	C79	C8429	C92	CR1502	C54	CR4902	E2	L4701	D13	Q1601	D51	Q4802	E34	Q8403	E92	R1345	A39
C1314	B44	C1462	E53	C1722	C70	C1901	A57	C2905	B12	C4009	A19	C4702	D14	C6420	B24	C8221	C79	C8429	C92	CR1503	A56	CR5003	A34	L4702	D13	Q1603	E66	Q4803	E6	Q8404	C105	R1346	B39
C1315	D43	C1463	E53	C1723	D72	C1902	B57	C2909	A12	C4101	D18	C4703	D14	C6421	D97	C8222	B92	C8430	C91	CR1504	B56	CR5004	B34	L4803	E35	Q1702	E73	Q4804	E32	Q8405	C106	R1347	A39
C1316	C28	C1470	E51	C1724	D71	C1903	D59	C2910	A13	C4102	C19	C4704	D14	C6422	E97	C8223	B92	C8431	B92	CR1901	C53	CR6201	C33	L5001	B34	Q1704	E75	Q4805	E32	Q8407	A105	R1348	C40
C1317	D43	C1471	E51	C1726	C25	C1904	E60	C2911	B14	C4103	D18	C4705	D14	C6423	E97	C8224	B92	C8432	C91	CR1902	B54	CR6401	D100	L5001	C34	Q1705	E75	Q4901	D2	Q8407A	A105	R1350	E42
C1318	C43	C1501	A50	C1728	D76	C1905	B58	C2918	B31	C4104	C19	C4706	D25	C6424	C97	C8225	B105	C8433	B92	CR1903	C54	CR6402	B103	L5002	A34	Q1850	A65	Q5001	A33	Q8408	B91	R1351	B41
C1319	D43	C1501	C65	C1733	D25	C1917	D24	C2919	B30	C4105	B19	C4707	D13	C6425	C28	C8226	B105	C8434	A90	CR1904	C54	CR6403	B103	L5003	B34	Q1851	A65	Q5002	B33	Q8409	B90	R1352	E37
C1320	D43	C1502	B49	C1734	C25	C1918	D24	C2920	A30	C4106	C18	C4712	B24	C6426	C97	C8227	B106	C8434	A90	CR1905	C53	CR6404	D102	L5004	A34	Q1852	A66	Q5003	B33	Q8410	C92	R1360	C41
C1321	D43	C1502	C64	C1735	A76	C1919	D24	C2924	A15	C4107	C19	C4713	E13	C6427	C97	C8228	A106	C8435	B90	CR1912	D56	CR6405	D101	L5005	B34	Q1853	A66	Q6200	C30	Q8411	E90	R1361	D39
C1322	D41	C1515	B62	C1736	A76	C1920	A58	C2925	B15	C4108	C20	C4714	D26	C6428	C96	C8228	A106	C8435	B90	CR1913	D56	CR6406	C102	L5006	B34	Q1854	A67	Q6201	C30	Q8412	E91	R1362	D38
C1323	C44	C1516	C63	C1739	C69	C1921	D24	C2926	C15	C4109	C20	C4715	D25	C6429	C96	C8229	A25	C8438	C105	CR2701	B8	CR6409	B101	L6200	D35	Q1855	A67	Q6202	C31	Q8501	C84	R1363	D38
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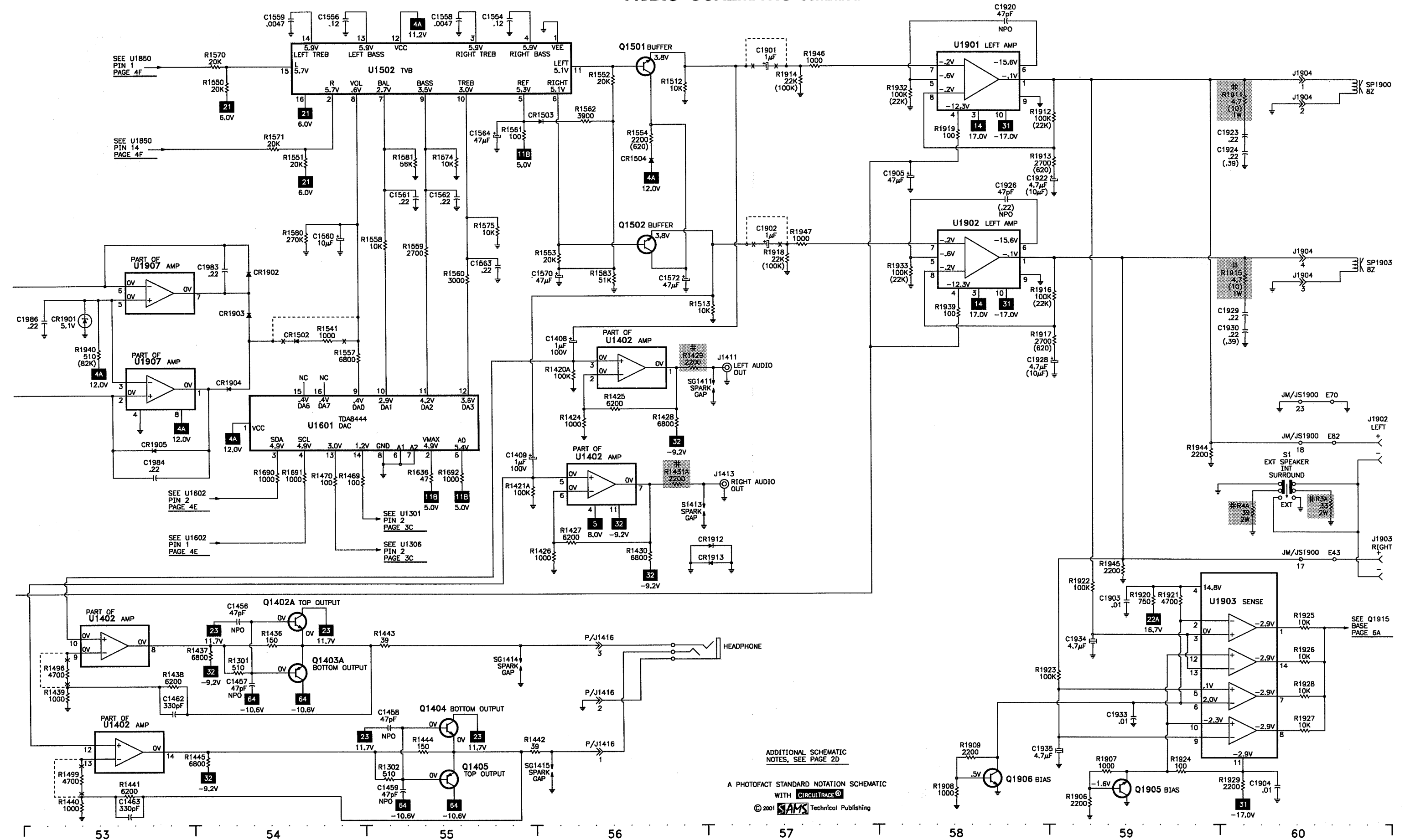
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R1417	C95	R1495	E50	R1640	E47	R1759	D69	R1887	A67	R2308	B3	R2911	A16	R3303	B114	R4121	E18	R4515	D6	R5012	B33	R6434	E99	R8209	A79	R8318	B83	R8505	E86	R8919	E79	U1402	E53
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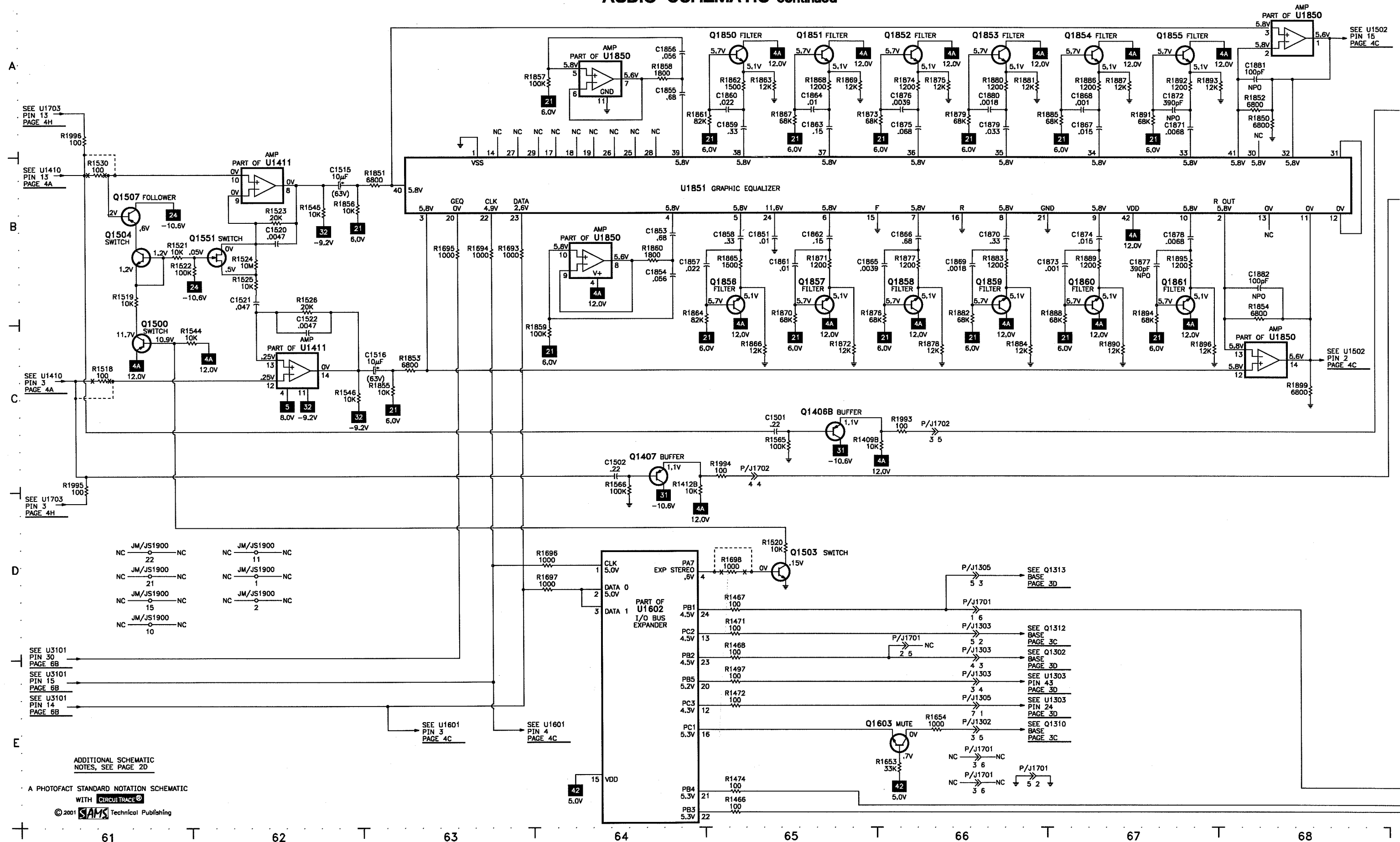
AUDIO SCHEMATIC



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AUDIO SCHEMATIC continued



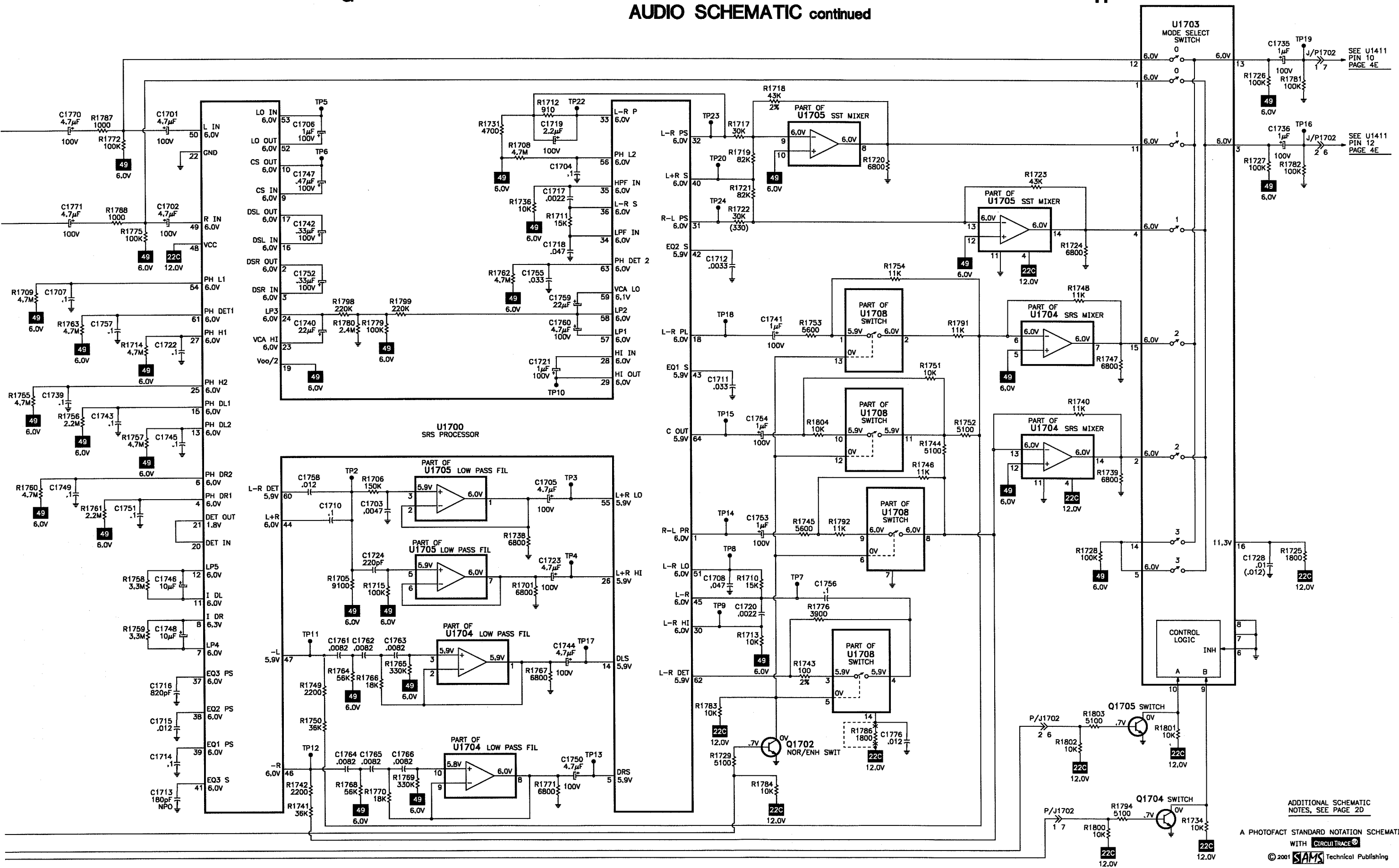
ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

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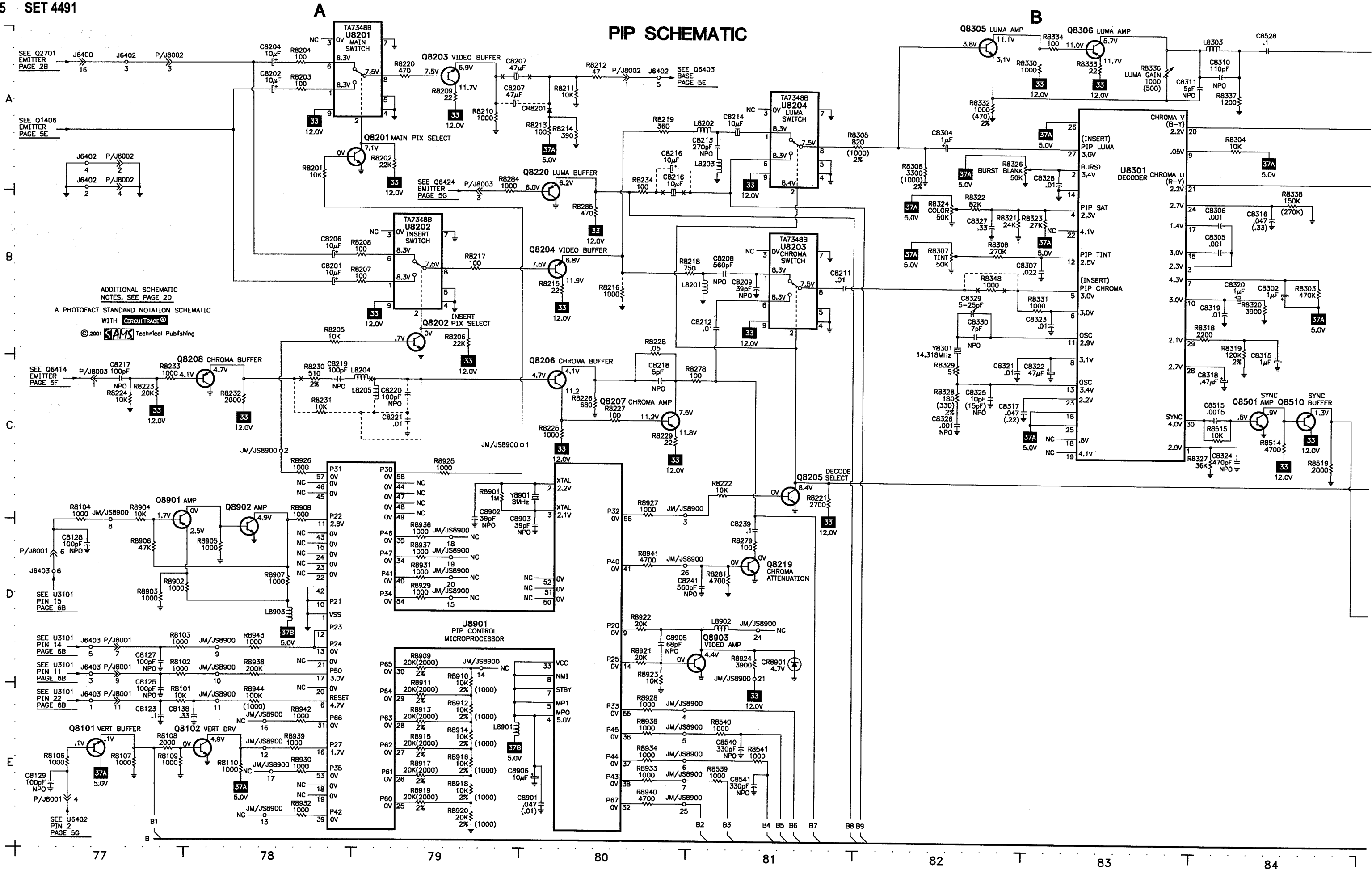
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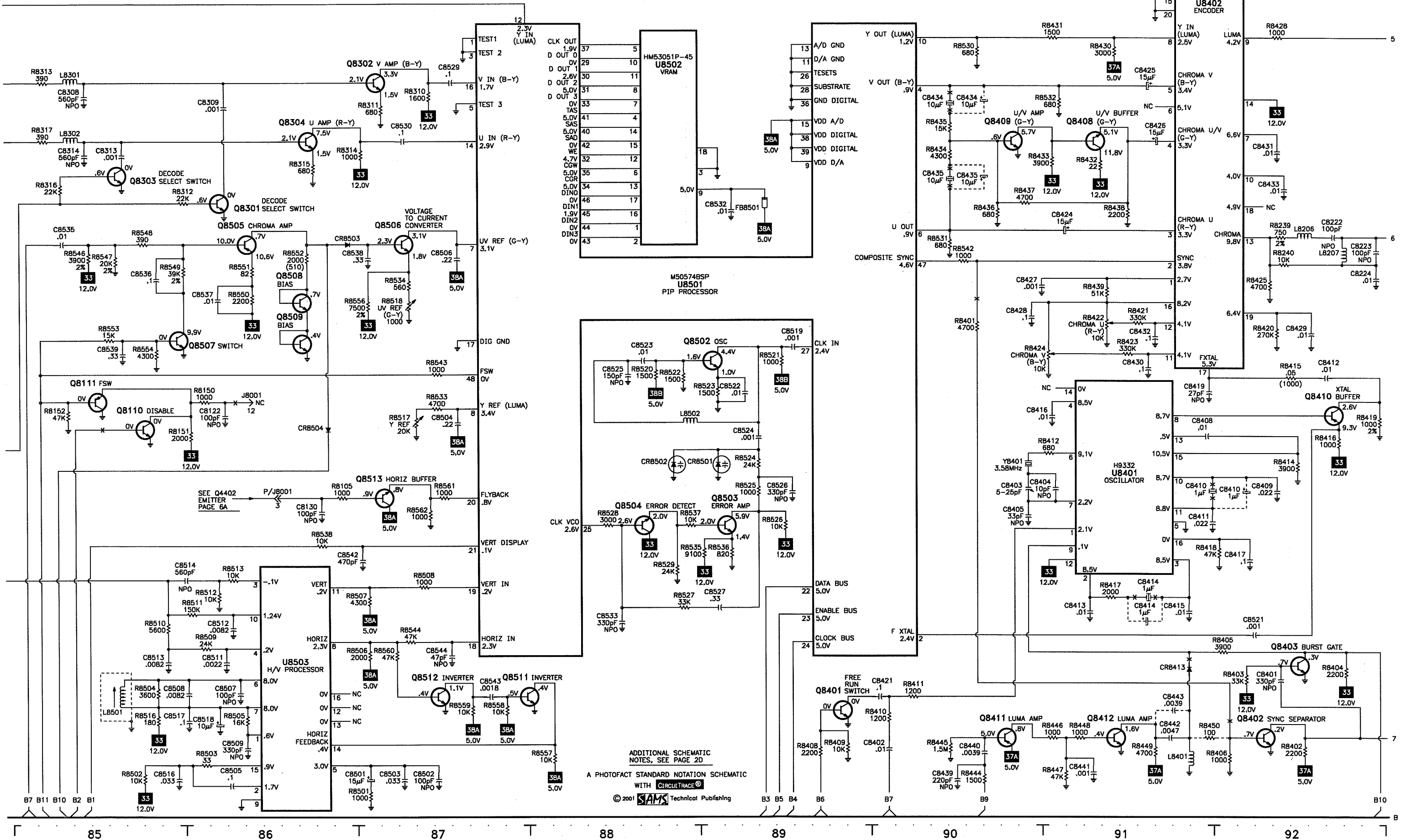


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D
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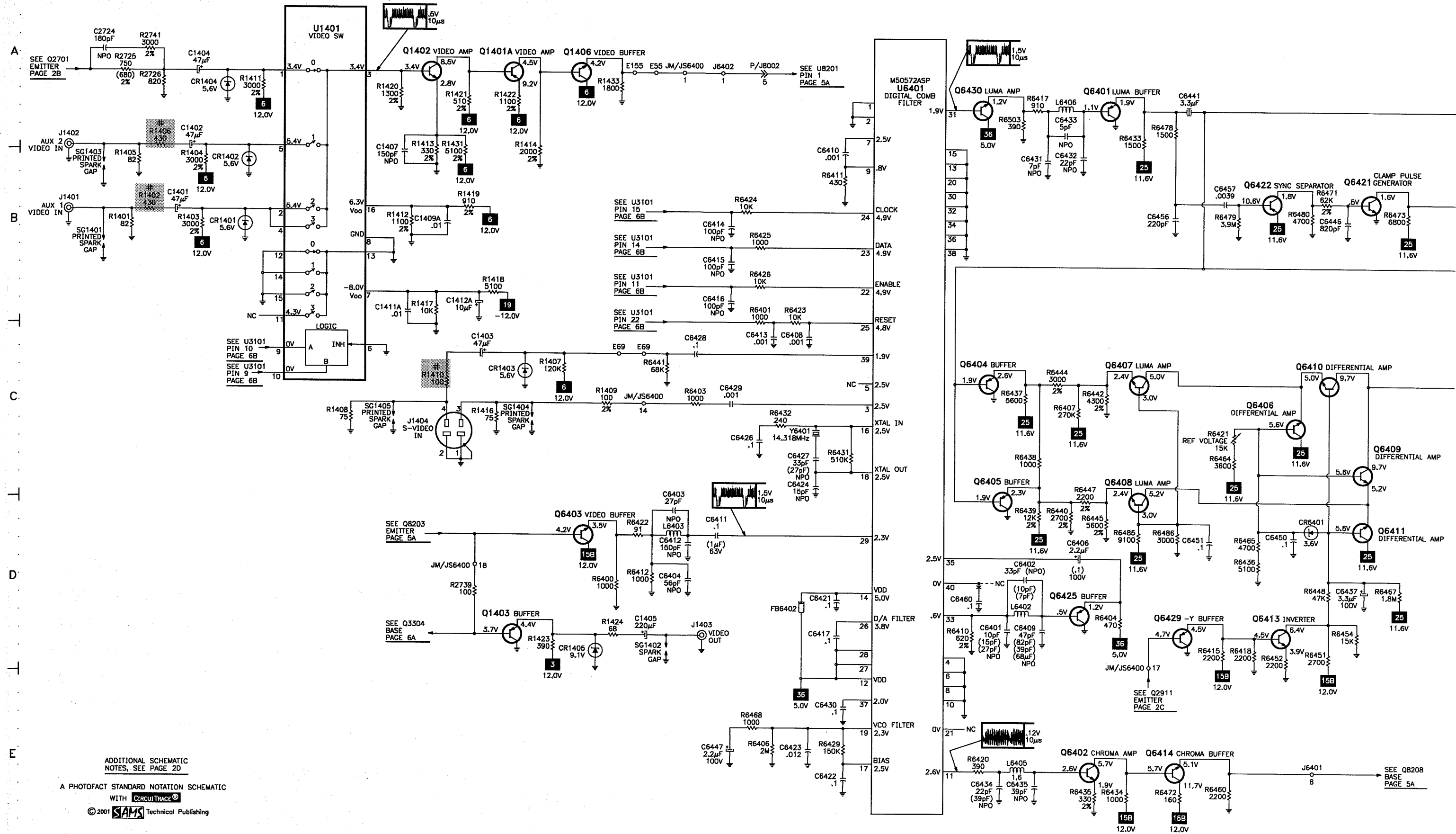
PIP SCHEMATIC



PIP SCHEMATIC continued



VIDEO SWITCHING/DIGITAL COMB SCHEMATIC



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

A PHOTOFAC STANDARD NOTATION SCHEMATIC
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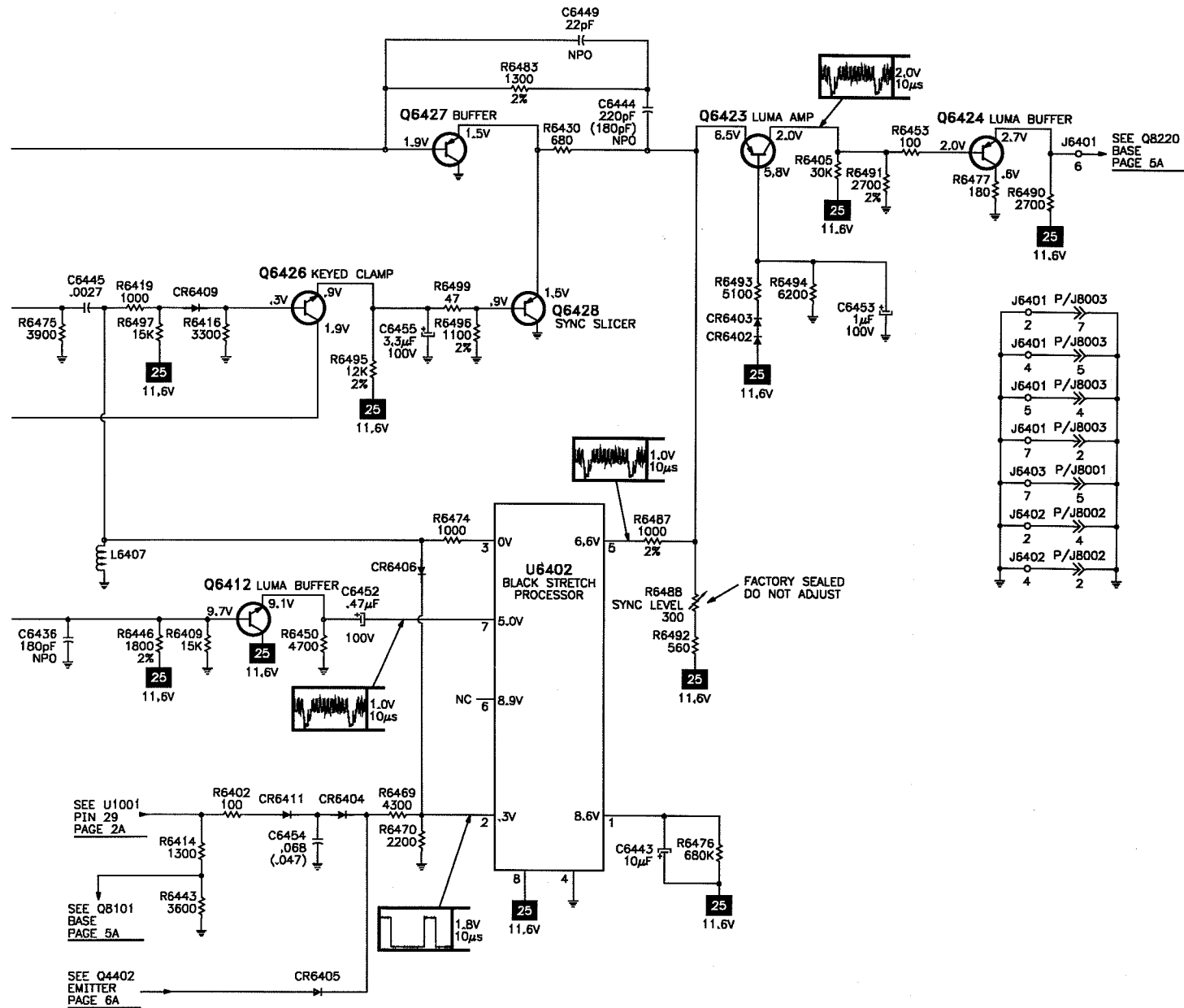
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VIDEO SWITCHING/DIGITAL COMB SCHEMATIC continued



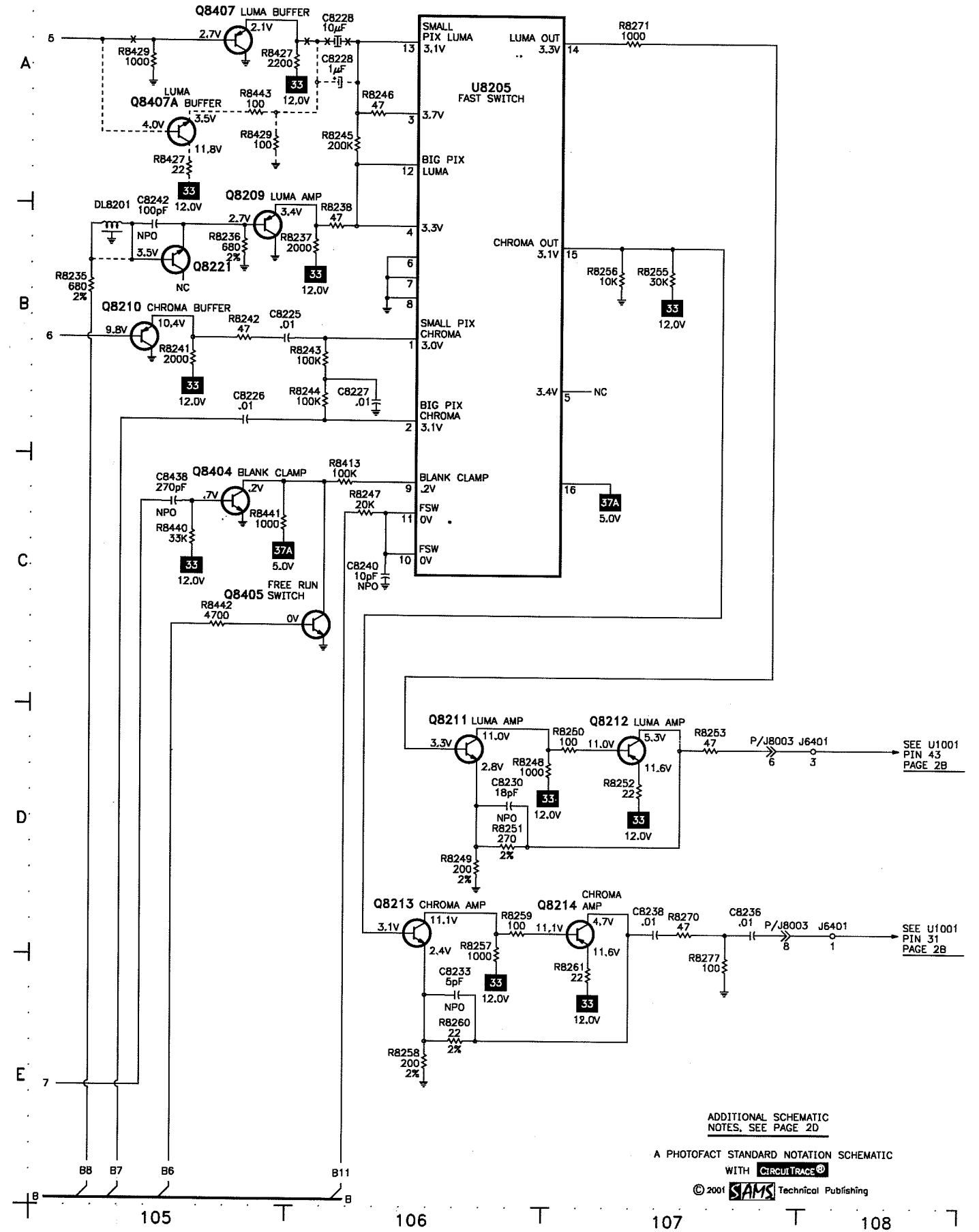
A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE®

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH 

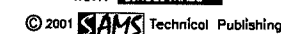
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PIP SCHEMATIC continued



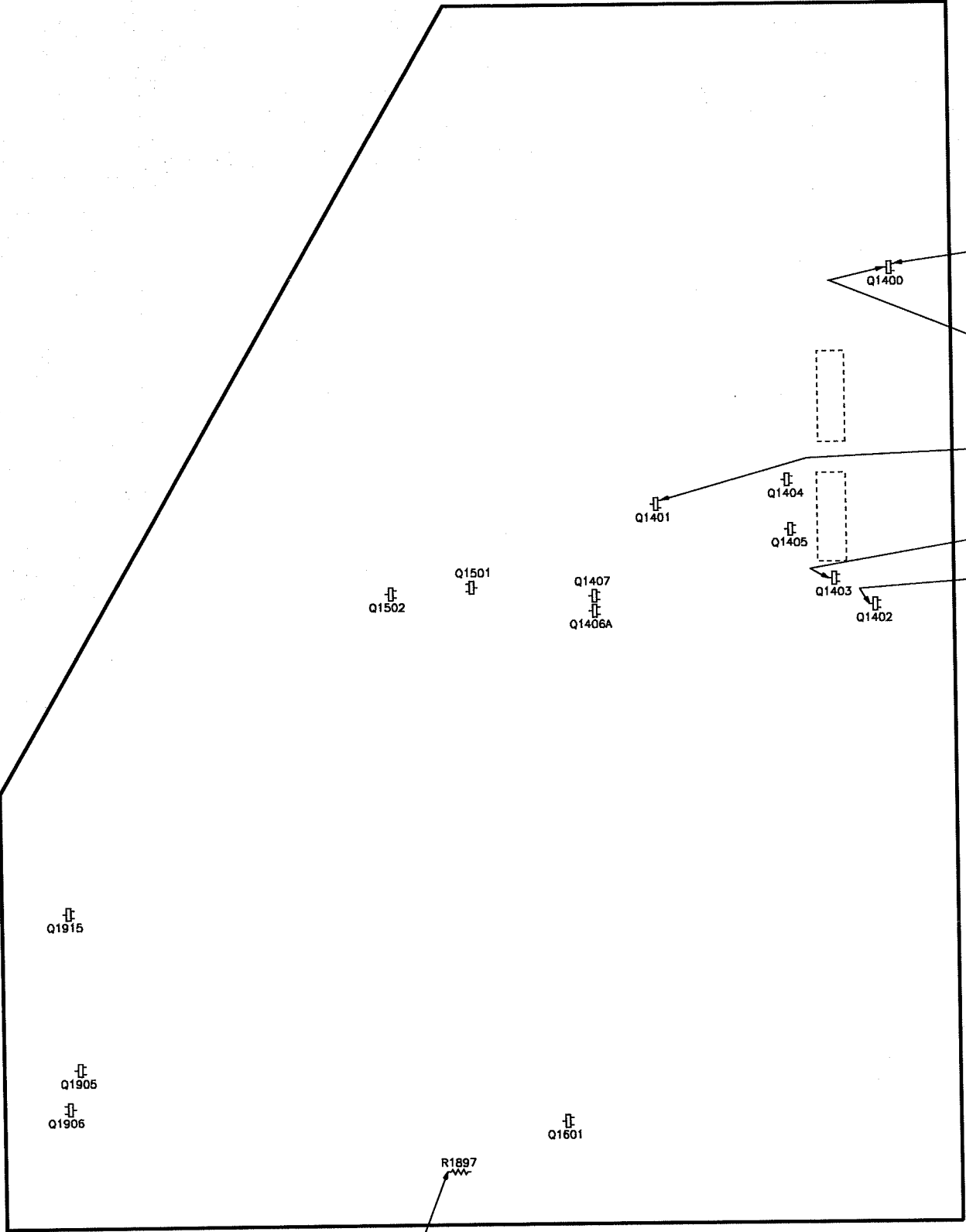
MODEL PS35152EX1 (CHASSIS CTC169B.15)

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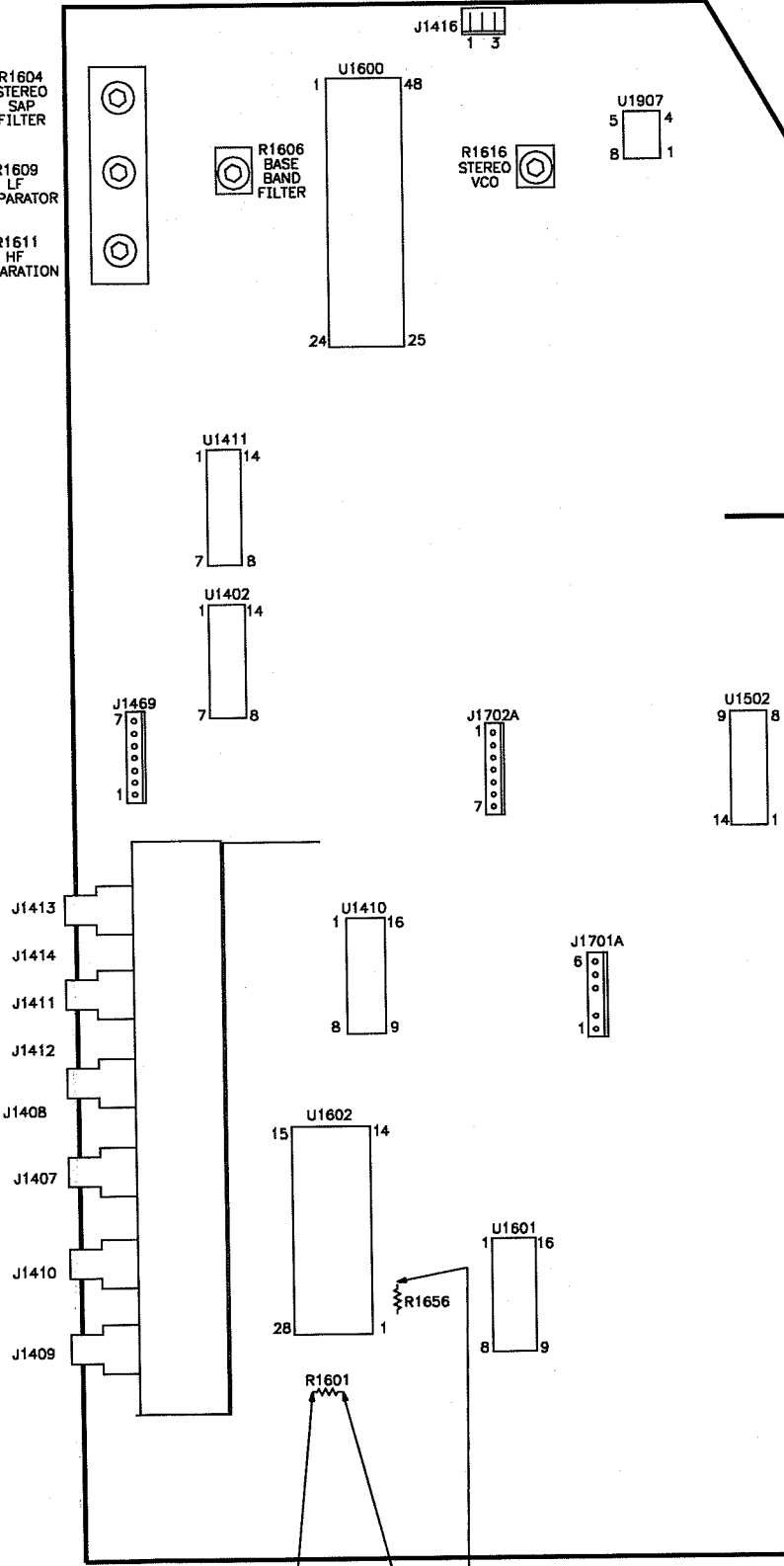


PLACEMENT CHART

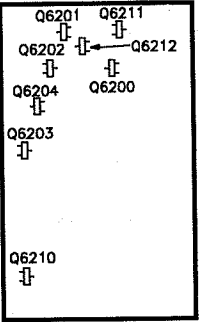
10W ANALOG AUDIO BOARD
(BOTTOM VIEW)



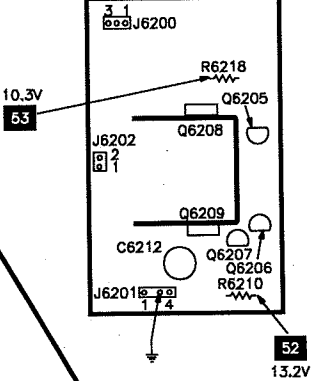
10W ANALOG AUDIO BOARD
(TOP VIEW)



SCAN VELOCITY BOARD
(BOTTOM VIEW)



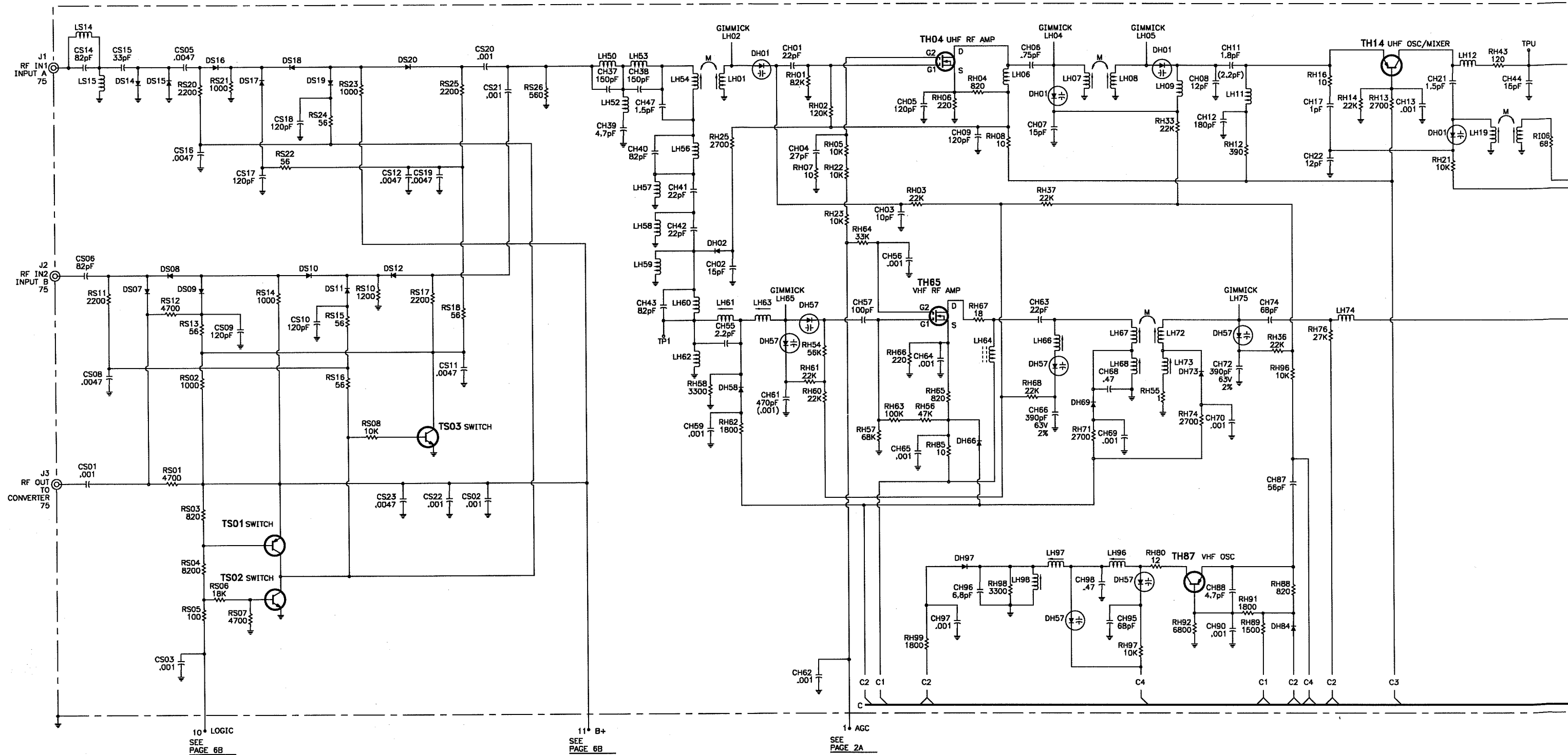
SCAN VELOCITY BOARD
(TOP VIEW)



E

TUNER SCHEMATIC

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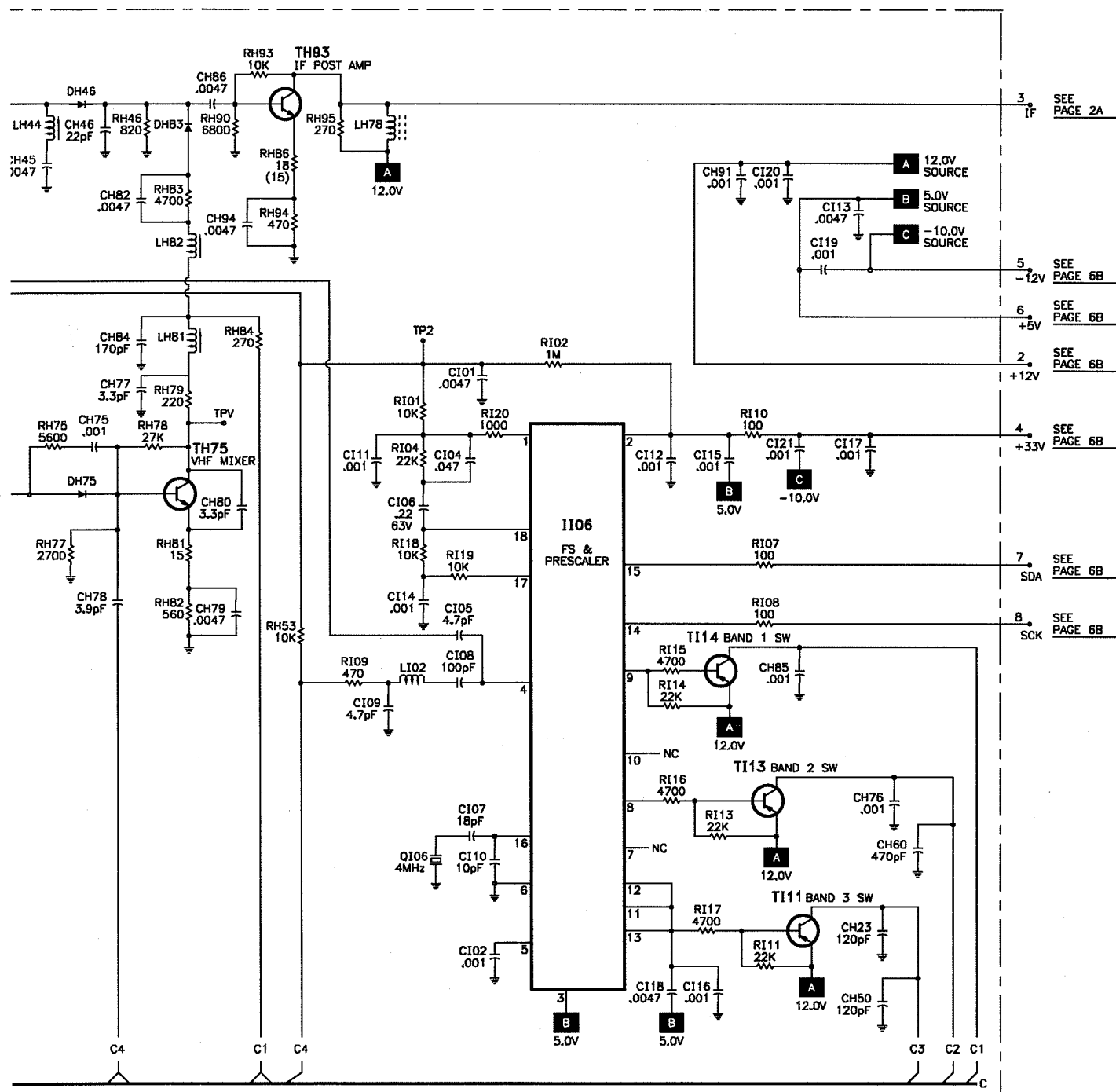


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 20

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G
TUNER SCHEMATIC continued

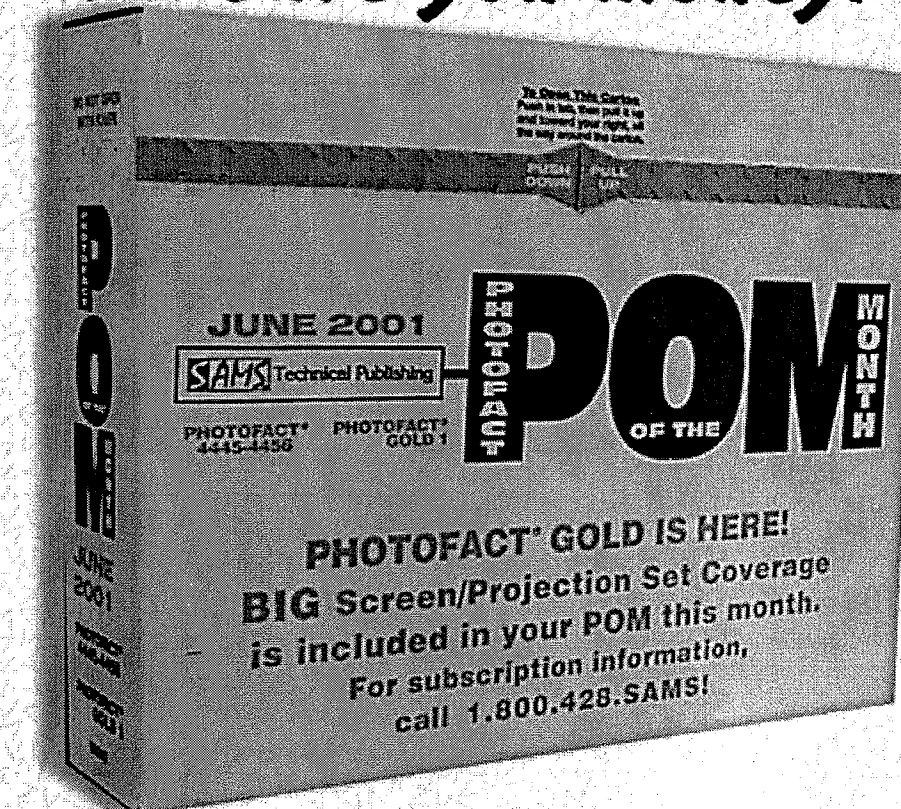


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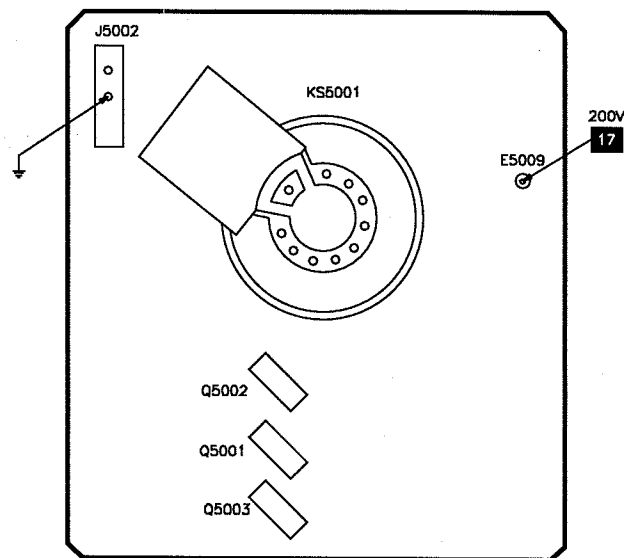
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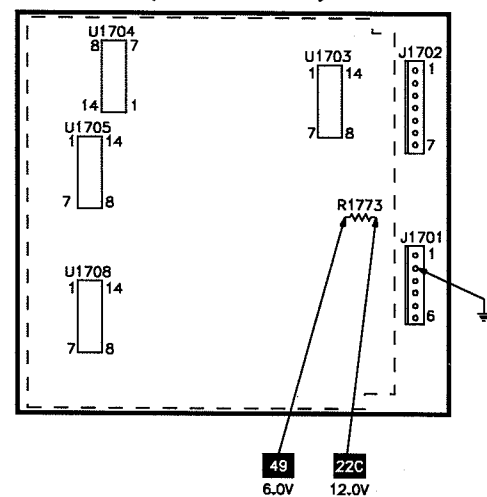
MODEL PS35152FX1 (CHASSIS CTC169BJ5)

PLACEMENT CHART continued

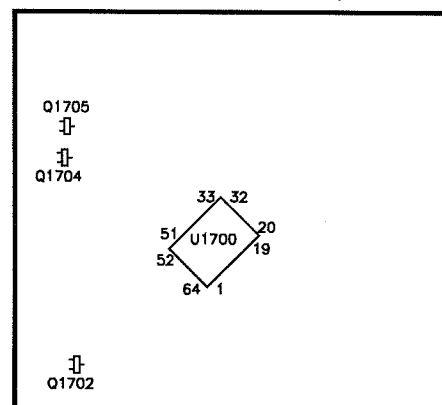
CRT BOARD



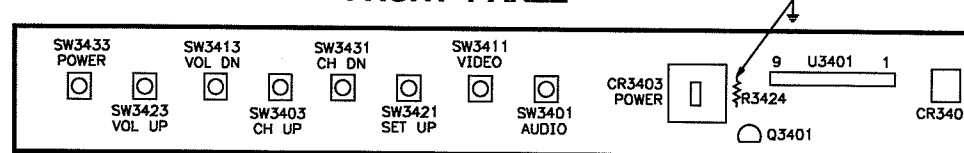
SRS AUDIO BOARD (TOP VIEW)



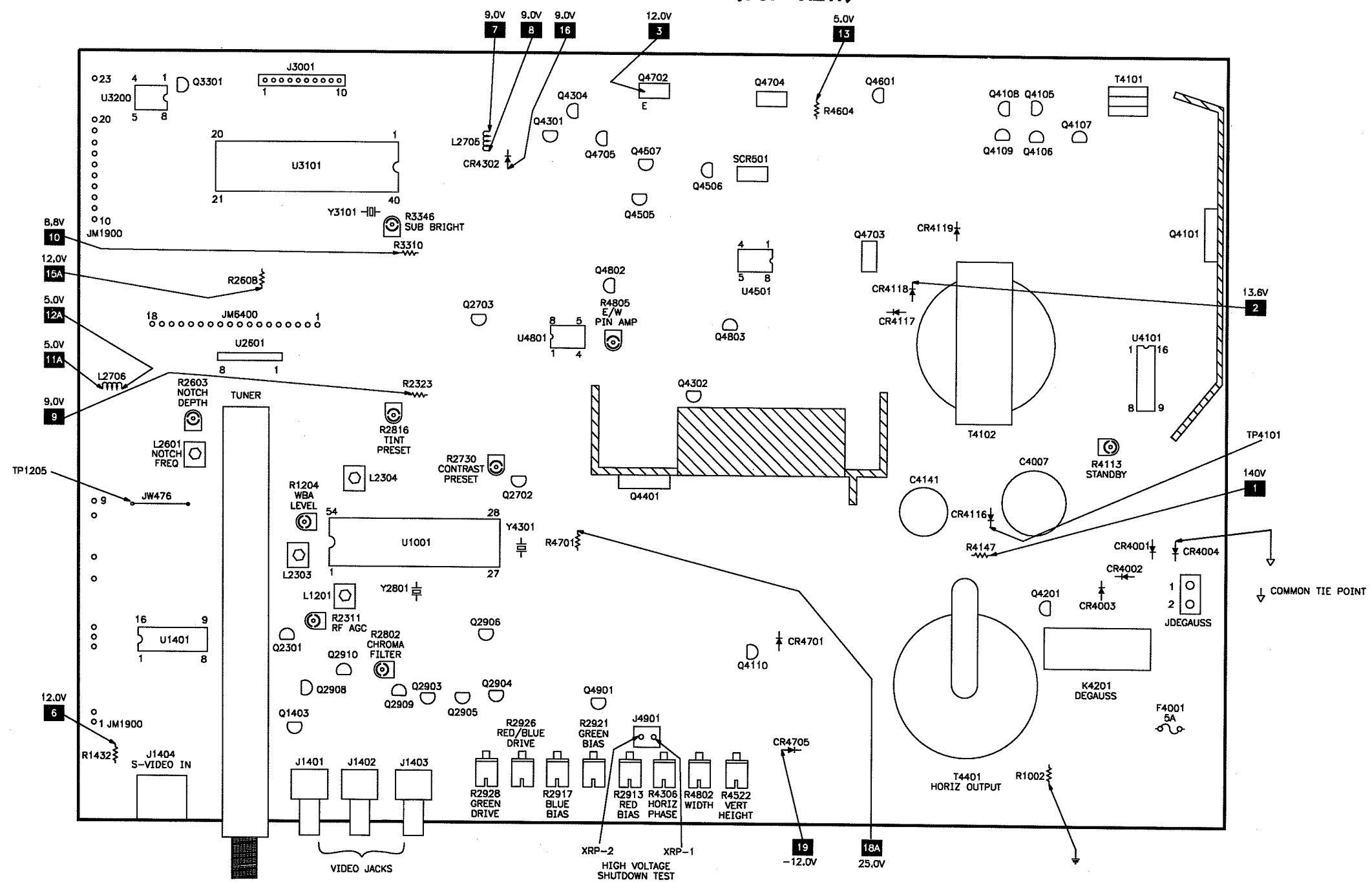
SRS AUDIO BOARD (BOTTOM VIEW)



FRONT PANEL

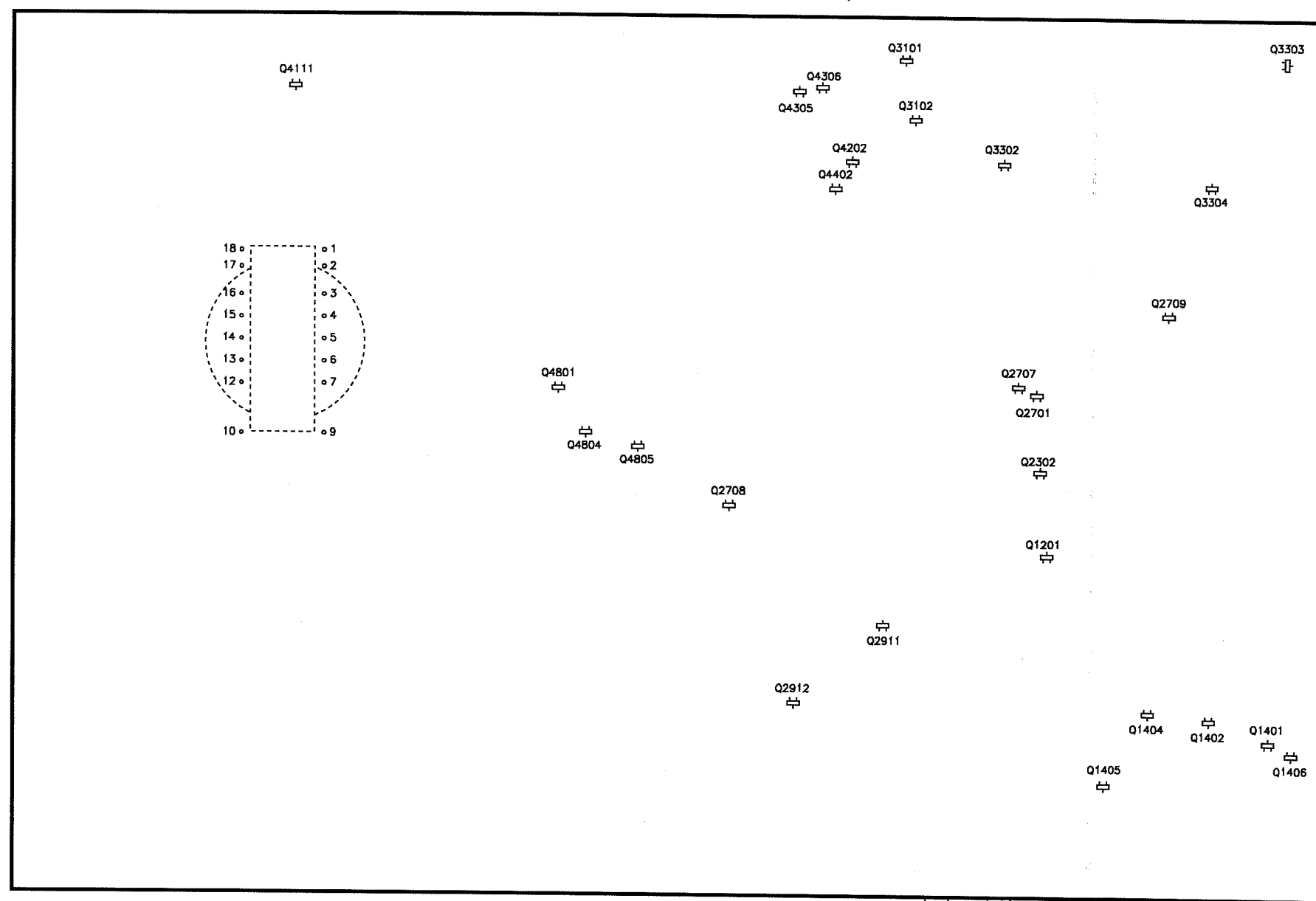


MAIN BOARD (TOP VIEW)

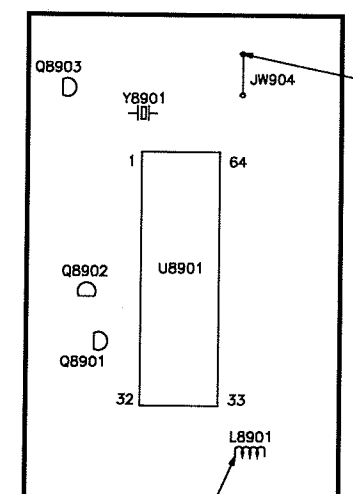


PLACEMENT CHART continued

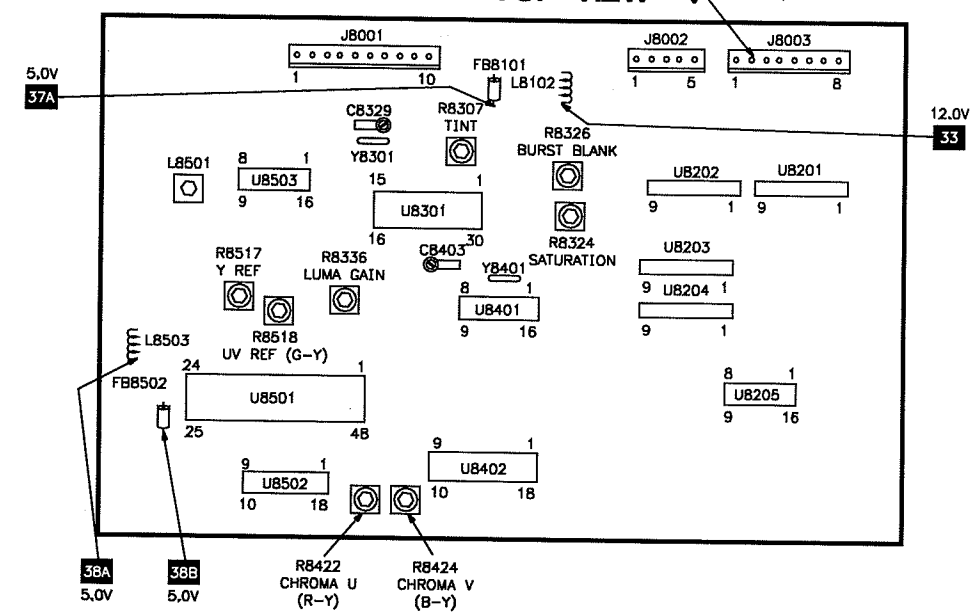
MAIN BOARD (BOTTOM VIEW)



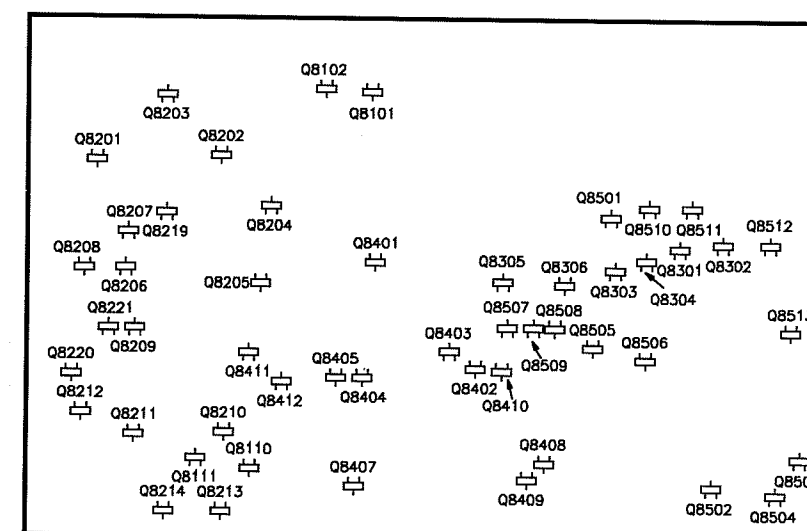
PIP MICRO BOARD



PIP BOARD - TOP VIEW

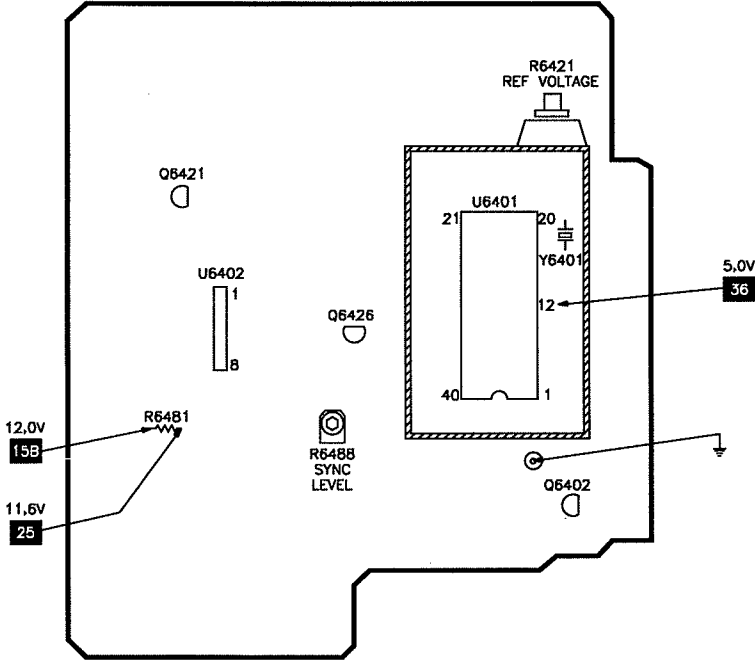


PIP BOARD - BOTTOM VIEW

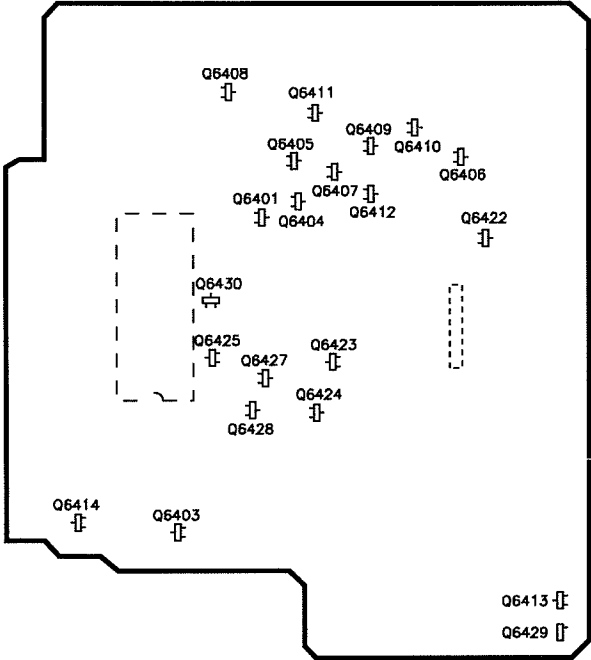


PLACEMENT CHART continued

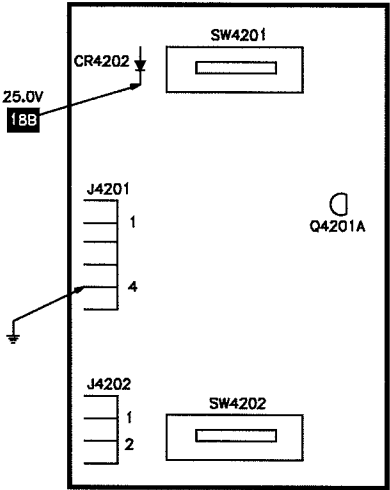
DIGITAL COMB FILTER BOARD (TOP VIEW)



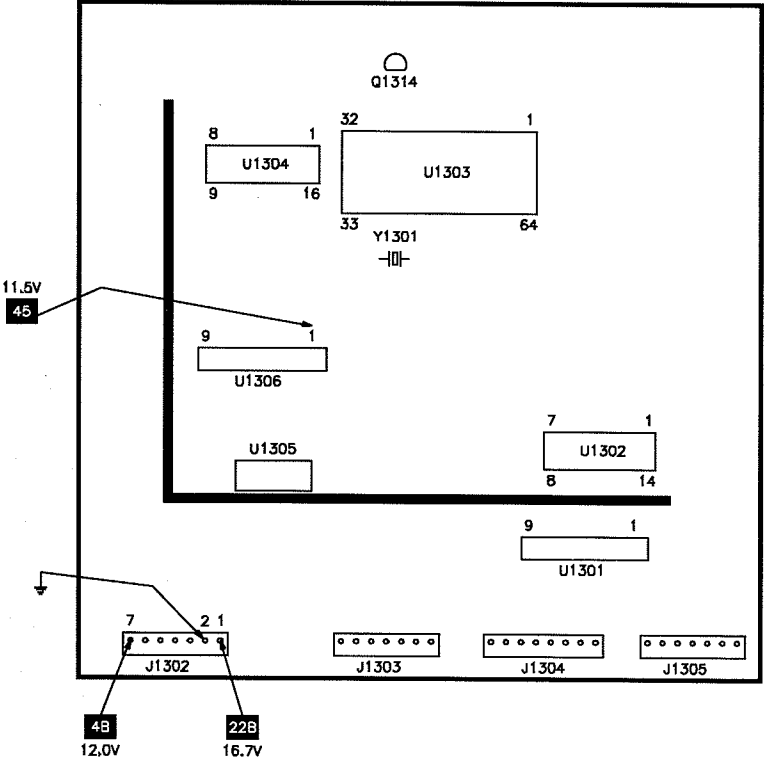
DIGITAL COMB FILTER BOARD (BOTTOM VIEW)



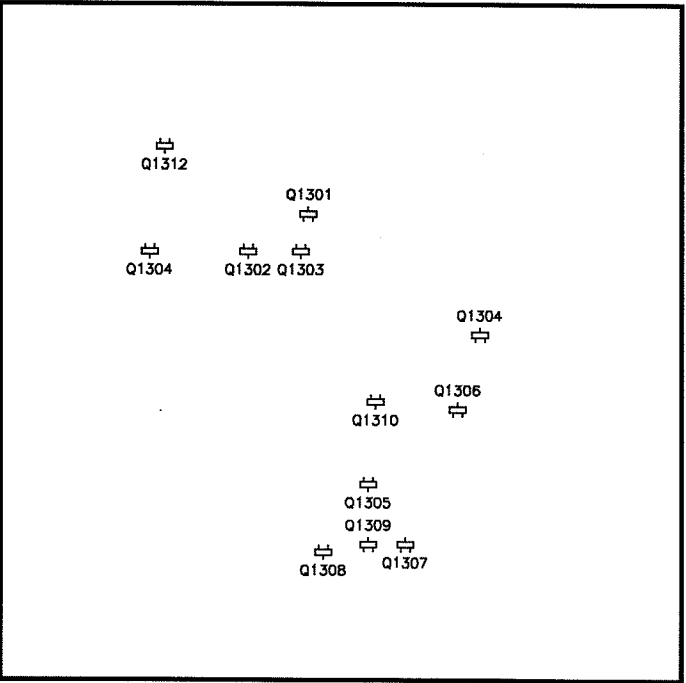
FIELD CORRECTION BOARD



DOLBY SURROUND BOARD (TOP VIEW)



DOLBY SURROUND BOARD (BOTTOM VIEW)



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.
CR1301	-	201133	NTE519	CR4702	-	153672	NTE552	Q1903	-	179740	NTE2406
CR1302, 03	-	147015	NTE125		-	207878	NTE519		-	216805	-
CR1401 Thru	-			CR4705	-	176296	NTE552	Q1904	-	179741	NTE2407
CR1404	-	176746	NTE5011A	CR4709	-	196062	NTE519		-	216805	-
	-	215488	NTE136A	CR4710	-	139706	NTE177	Q1905, 06	-	179740	NTE2406
CR1405	-	192848	NTE5018A	CR4712	-	209741	-	Q1915	-	179740	NTE2406
	-	227362	-	CR4713	-	153672	NTE552	Q2301	-	146848	NTE229
CR1502, 03, 04	-	164717	NTE519		-	207878	NTE519	Q2302	-	215495	-
CR1901	-	164030	-	CR4803	-	176296	NTE552	Q2701	-	215495	-
CR1902 Thru	-			CR4805	-	138974	NTE5069A	Q2702	-	146847	NTE123AP
CR1905	-	201133	NTE519		-	227919	-		-	223704	-
CR1912, 13	-	147015	NTE125	CR4806	-	164717	NTE519	Q2703	-	143806	NTE159
CR2701, 02	-	164717	NTE519	# CR4901	-	157301	NTE177	Q2707	-	215495	-
CR2704, 05, 06	-	164717	NTE519	# CR4902 (2)	-	-	-	Q2708	-	215496	-
CR2802	-	164717	NTE519	CR5003	-	139706	NTE177	Q2709	-	215495	-
CR2901	-	164717	NTE519		-	174489	NTE177	Q2903, 04, 06	-	176980	NTE123AP
CR3101	-	176746	NTE5011A	CR5004	-	174489	NTE177	Q2906	-	143806	NTE159
	-	215488	NTE136A	CR6201	-	164717	NTE519	Q2908, 09, 10	-	176980	NTE123AP
CR3102, 03	-	164717	NTE519	CR6401	-	129903	NTE134A	Q2911	-	215495	-
CR3301, 02	-	164717	NTE519	CR6402 Thru	-			Q2912	-	219412	-
CR3401	-	150711	-	CR6405	-	164717	NTE519		-		-
CR3402	-	182827	NTE5010A	CR6406	-	201133	NTE519	Q3101	-	215496	-
CR3403	-	175393	-	CR6409, 11	-	164717	NTE519	Q3102	-	215495	-
CR3601	-	200155	NTE5035A	CR8201	-	164874	NTE177	Q3301	-	145410	NTE159
	-	215489	-	CR8413	-	164874	NTE177		-	219025	NTE159
CR4001 Thru	-			CR8501, 02	-	160521	-	Q3302, 03	-	215495	-
CR4004	-	147015	NTE125	CR8503, 04	-	164874	NTE177	Q3304	-	215496	-
CR4101	-	207878	NTE519	CR8901	-	138974	NTE5069A	Q3401	-	146847	NTE123AP
	-	223338	-	Q1201	-	215495	NTE2406	Q4101	SGSIF461	200165	NTE2311
CR4102	-	164717	NTE519	Q1301, 02	-	179740	NTE2406	Q4105, 06	-	143802	NTE159
CR4105	-	207878	NTE519	Q1304, 05, 06	-	179740	NTE2407		-	219025	NTE159
CR4106	-	176296	NTE552	Q1307	-	179741	NTE2406	Q4107	-	146847	NTE123AP
# CR4111 (1)	-	-	-	Q1308	-	179740	NTE2407		-	223704	-
CR4112	-	164874	NTE177	Q1309	-	179741	NTE2407	Q4108	-	143802	NTE159
CR4115	-	136634	NTE143A	Q1310, 12, 13	-	179740	NTE2406		-	219025	NTE159
	-	226783	-	Q1314	-	177788	NTE31	Q4109	-	146847	NTE123AP
CR4116	-	200157	NTE142A	Q1400	-	179740	NTE2406		-	223704	-
# CR4117	-	176296	NTE552	Q1401	-	179741	NTE2407	Q4110	-	143802	NTE159
# CR4118, 19, 20	-	164590	NTE580	Q1401A	-	215496	-	Q4111	-	215496	-
# CR4121	-	136634	NTE143A	Q1402	-	215495	-	Q4201	-	146847	NTE123AP
	-	226783	-	Q1402A	-	179740	NTE2406		-	223704	-
CR4122	-	200158	-	Q1403	-	143806	NTE159	Q4201A	-	146847	NTE123AP
CR4123	-	176746	NTE5011A	Q1403A	-	179741	NTE2407	Q4202	-	215495	-
	-	215488	NTE136A	Q1404	-	179740	NTE2406	Q4301	-	146847	NTE123AP
CR4201	-	164717	NTE519	Q1405	-	179741	NTE2407		-	223704	-
CR4201A, 02A	-	176296	NTE552	Q1406	-	215495	-	Q4302	-	200168	-
CR4302	-	164717	NTE519	Q1406A	-	179741	NTE2407	Q4304	-	146847	NTE123AP
CR4303	-	161871	NTE145A	Q1406B	-	179741	NTE2407		-	223704	-
	-	228429	-	Q1407	-	179741	NTE2407	Q4305, 06	-	215495	-
CR4304, 05	-	164717	NTE519	Q1407A	-	179741	NTE2407	Q4401	2SD1885	200167	NTE2324%
CR4401	-	198596	-	Q1500	-	179741	NTE2407	Q4402	-	215495	-
CR4402	-	164589	NTE580	Q1501 Thru	-			Q4505	-	146847	NTE123AP
CR4403	-	139706	NTE177	Q1504	-	179740	NTE2406		-	223704	-
CR4404	-	164717	NTE519	Q1507	-	179741	NTE2407	Q4506	-	148970	-
CR4501	-	164717	NTE519	Q1551	-	192849	-	Q4507	-	146847	NTE123AP
CR4502	-	139706	NTE177	Q1601	-	179740	NTE2406		-	223704	-
CR4503	-	146320	NTE135A		-	179741	NTE2407	Q4601	-	146847	NTE123AP
	-	198602	-	Q1603	-	179740	NTE2406		-	223704	-
CR4504	-	164589	NTE580	Q1702, 04, 05	-	179740	NTE2406	Q4702, 03, 04	-	157627	NTE54
CR4511	-	164717	NTE519	Q1850	-	179740	NTE2406	Q4705	-	146847	NTE123AP
CR4512	-	132616	NTE5014A	Q1851 Thru	-				-	223704	-
CR4606	-	161081	NTE5011T1	Q1861	-	179740	NTE2406	Q4801	-	215496	-
	-	226504	-	Q1901	-	179740	NTE2406	Q4802	-	200168	-
CR4701	-	176296	NTE552		-			Q4803	-	146847	NTE123AP

PROSCAN

MODEL PS35152 (CHASSIS CTC169BJ5)

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes
Q4804, 05	-	215495	-	U1305	-	205248	-	C2310	18pF 5% 50V NPO	214028	-
# Q4901	-	147665	NTE159	U1306	-	175722	-	C2312	7pF ±.5pF 50V NPO	174401	-
Q5001, 02, 03	-	208434	NTE376%	U1401	-	161079	NTE4052B	C2316	560pF 5% 50V NPO	200139	-
Q6200 Thru	-	-	-	-	-	218520	-	C2704	7pF ±.5pF 50V NPO	174401	-
Q6204	-	179740	NTE2406	U1402	-	205919	NTE859	C2707	120pF 5% 50V NPO	174414	-
Q6205	-	146847	NTE123AP	U1410	HCF4052BE	161079	NTE4052B	C2718	100pF 5% 50V NPO	174412	-
Q6206	-	177788	NTE31	U1411	-	149018	-	C2724	180pF 5% 50V NPO	193338	-
Q6207	-	177789	NTE32	U1502	-	176226	NTE1576	C2804	15pF 5% 50V NPO	174404	-
Q6208	-	204303	-	U1600	-	190484	-	C2811, 12, 13	22pF 5% 50V NPO	194903	-
Q6209	-	204302	-	U1601	TDA8444	204290	-	C2814	82pF 5% 50V NPO	176828	-
Q6210, 11, 12	-	179740	NTE2406	U1602	-	207828	-	C2815	27pF 10% 50V NPO	192050	-
Q6401	-	179740	NTE2406	U1700	-	207831	-	C2905, 09	18pF 5% 50V NPO	174405	-
Q6402	-	146847	NTE123AP	U1703	-	161079	NTE4052B	C2924, 26	560pF 5% 50V NPO	200139	-
Q6403	-	179740	NTE2406	U1704, 05	LM324N	149018	NTE987	C3110	22pF 5% 50V NPO	194903	-
Q6404, 05	-	179741	NTE2407	U1708	-	154027	NTE4016B	C3119, 20	33pF 5% 50V NPO	174408	-
Q6406 Thru	-	-	-	U1850	-	149018	NTE987	C3128	560pF 5% 50V NPO	200139	-
Q6414	-	179740	NTE2406	U1851	-	205246	-	C3144	560pF 10% 50V NPO	202904	-
Q6421	-	146847	NTE123AP	U1901, 02	-	175722	-	C3145	100pF 5% 50V NPO	193340	-
Q6422 Thru	-	-	-	-	-	216806	-	C3301, 02	100pF 5% 50V NPO	174412	-
Q6425	-	179741	NTE2407	U1903	-	149018	NTE987	C3303	100pF 5% 50V NPO	193340	-
Q6426	-	146847	NTE123AP	U1907	TL082CN	204292	-	C3306	100pF 5% 50V NPO	174412	-
Q6427, 28, 29	-	179741	NTE2407	U3101	-	218816	-	C3314	220pF 5% 50V NPO	178188	-
Q6430	-	179740	NTE2406	U3200	-	219828	-	C3315	100pF 5% 50V NPO	174412	-
Q8101, 02	-	179740	NTE2406	U3401	CX20106A	195885	-	C3316	560pF 10% 50V NPO	202904	-
Q8110	-	179740	NTE2406	# U4101	TEA2261	200419	-	C3317	15pF 5% 50V NPO	202907	-
Q8111	-	179741	NTE2407	U4501	LM311N	200420	NTE922M	C3318, 20, 21	27pF 5% 50V NPO	174407	-
Q8201 Thru	-	-	-	-	-	227357	-	C3323	82pF 5% 50V NPO	192049	-
Q8206	-	179740	NTE2406	U4801	LM311N	200420	NTE922M	# C4002, 05	680pF 20% 1kV	190538	-
Q8207 Thru	-	-	-	-	-	227357	-	# C4006	Capristor	250102	470pF, 11M
Q8210	-	179741	NTE2407	U6401	-	207871	-	# C4007	820µF 10% 200V	190561	-
Q8211	-	179740	NTE2406	U6402	-	201146	-	# C4008	.005 20% 120V	195697	-
Q8212	-	179741	NTE2407	U8201 Thru	-	-	-	# C4110	470pF 5% 1.5kV N1500	227068	-
Q8213	-	179740	NTE2406	U8204	-	176873	NTE1826	-	470pF 5% 1.5kV N1500	143242	-
Q8214	-	179741	NTE2407	U8205	-	197646	-	C4111	680pF 20% 1kV	190538	-
Q8219	-	179740	NTE2406	U8301	-	197647	-	# C4112	.0056 5% 800V	201619	-
Q8220	-	179741	NTE2407	U8401	-	197648	-	C4116	47pF 5% 50V NPO	143867	-
Q8221	-	179740	NTE2406	U8402	-	197649	-	C4140	680pF 20% 1kV	190538	-
Q8301 Thru	-	-	-	U8501	-	202916	-	# C4141	470µF 20% 180V	200147	-
Q8305	-	179740	NTE2406	U8502	-	197651	-	C4155	470pF 5% 50V N750	210893	-
Q8306	-	179741	NTE2407	U8503	-	159433	NTE1739	# C4401	.0174 1.6kV	206010	-
Q8401 Thru	-	-	-	U8901	-	207826	-	# C4402	.056 5% 400V	200149	-
Q8405	-	179740	NTE2406	Item No.	Function/Rating	Mfr. Part No.	Notes	# C4403	.58 5% 250V	205191	-
Q8407	-	179740	NTE2406	# C1	.0033 1.6kV	210773	-	# C4406	470pF 5% 1.5kV N1500	143242	-
Q8407A	-	179741	NTE2407	C1204	10pF 2% 50V NPO	174402	-	-	470pF 5% 2kV N1500	227068	-
Q8408, 09	-	179740	NTE2406	C1304, 12	150pF 10% 50V NPO	196106	-	# C4407	.0047 10% 250V	190534	-
Q8410	-	179741	NTE2407	C1320, 21	27pF 5% 50V NPO	174407	-	# C4503	2200µF 10% 35V	200151	-
Q8411	-	179741	NTE2407	C1330	470pF 10% 50V NPO	174416	-	# C4511	1.54µF 5% 250V	200152	-
Q8412	-	179740	NTE2406	C1333, 34	10µF 20% 25V NP	146256	-	C4701	.01 20% 1kV	137583	-
Q8501	-	179740	NTE2406	C1337	680pF 5% 50V NPO	181845	-	C4702, 04, 13	680pF 20% 1kV	190538	-
Q8502	-	181476	-	C1354	150pF 5% 50V NPO	181091	-	# C4716	.068 10% 250V	210685	-
Q8503, 04	-	179740	NTE2406	C1407	150pF 5% 50V NPO	181091	-	C4801	10µF 20% 50V NP	227053	-
Q8505	-	179741	NTE2407	C1456 Thru	-	-	-	# C4905	1µF 20% 100V	220998	-
Q8506 Thru	-	-	-	C1459	47pF 10% 50V NPO	195924	-	C5001	.001 10% 3kV	120696	-
Q8513	-	179740	NTE2406	C1616	2.2µF 20% 50V NP	190527	-	C6401	27pF 5% 50V NPO	174407	-
Q8901	-	145410	NTE159	C1617	3.3µF 20% 50V NP	224270	-	-	15pF 5% 50V NPO	174404	-
Q8902, 03	-	146847	NTE123AP	C1618	4.7µF 20% 50V NP	190529	-	-	10pF 5% 50V NPO	174402	-
SCR501	-	194320	NTE5424	C1713	180pF 5% 50V NPO	190543	-	C6402	10pF 1% 50V NPO	197602	-
# U1001	TA8680N	200137	NTE7010	C1872, 77	390pF 5% 50V NPO	204274	-	-	7pF 1% 50V NPO	197603	-
U1301	-	196122	NTE1792	C1881, 82	100pF 5% 50V NPO	193340	-	-	33pF 1% 50V NPO	194911	-
U1302	-	149018	NTE987	C1920	47pF 10% 50V NPO	195924	-	C6403	27pF 5% 50V NPO	174407	-
U1303	-	154027	NTE4016B	C1934, 35	4.7µF 20% 50V NP	190529	-	C6404	56pF 5% 50V NPO	190542	-
U1304	-	205249	-	C2308	180pF 5% 50V NPO	190543	-	-	-	-	-
				C2309	12pF 5% 50V NPO	174403	-				

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
C6409	39pF 10% 50V NPO	195911	-	C8902, 03	39pF 5% 50V NPO	178815	-	L5002	270μH	205222	-
	82pF 10% 50V NPO	205547	-	C8905	68pF 5% 50V NPO	145676	-	L5003	220μH	195707	-
	47pF 10% 50V NPO	210689	-	CF1201	Filter	195702	4.5MHz	L5004, 05, 06	47μH	195713	-
	68pF 10% 50V NPO	193339	-	CF2301	Filter	181125	4.5MHz	L6200	-	-	Part of Yoke Assembly
C6412	150pF 5% 50V NPO	181091	-	# DF4500 (4)	Yoke	-	Horiz .95mH, Vert 17.4mH	L6201	-	161243	-
C6414, 15, 16	100pF 5% 50V NPO	193340	-	DL2601	Delay Line	223169	-	L6203, 04	-	149170	-
C6424	15pF 5% 50V NPO	174404	-	DL2701	Delay Line	202013	-	L6401	6.8μH	193056	-
C6427	33pF 10% 50V NPO	194911	-	DL8201	Delay Line	207841	-		10μH	175409	-
	27pF 10% 50V NPO	192050	-	# F4001	Fuse	175425	5Amp, 125V, Fast Acting	L6402	18μH	195711	-
C6431	7pF ±.5pF 50V NPO	174401	-	FB1401	Ferrite Bead	153328	-		-	160518	-
C6432	22pF 5% 50V NPO	174406	-	FB4101, 02	Ferrite Bead	152102	-	L6403	4.7μH	197614	-
C6433	5pF ±.5pF 50V NPO	174399	-	FB4103	Ferrite Bead	153328	-				
C6434	22pF 5% 50V NPO	174406	-		Ferrite Bead	226467	-	L6405	39μH	195710	-
	39pF 5% 50V NPO	181090	-	FB4401	-	204792	-	L6406	15μH	197613	-
C6435	39pF 2% 50V NPO	181090	-	FB4402	Ferrite Bead	206390	-	L6407	-	176622	-
C6436	180pF 5% 50V NPO	190543	-	FB6401, 02	Ferrite Bead	181469	-	L8101, 02	10μH	204486	-
C6441	3.3μF 20% 50V NP	190528	-	FB8101	Ferrite Bead	154052	-	L8201	47μH	195713	-
C6444	180pF 5% NPO 50V	190543	-	FB8501, 02	Ferrite Bead	154052	-	L8202	56μH	196107	-
	220pF 5% NPO 50V	178188	-	# FL4001	Filter	207879	-	L8203	4.7μH	197614	-
C6449	22pF 5% 50V NPO	194903	-	J1401	Jack	203741	Aux 1 Video In	L8204 Thru			
C8122	100pF 5% 50V NPO	174412	-	J1402	Jack	203741	Aux 2 Video In	L8207	22μH	195712	-
C8125	100pF 5% 50V NPO	193340	-	J1403	Jack	203741	Video Out	L8301, 02	-	189987	-
C8127 Thru				J1404	Jack	203741	S-Video In	L8303	4.7μH	197614	-
C8130	100pF 5% 50V NPO	193340	-	J1407	Jack	195705	Left Aux 1 Audio In	L8401	-	202912	-
C8207	47μF 20% 25V NP	193580	-	J1410	Jack	203767	Right/Mono Aux 1 Audio In	L8501	200μH	160145	-
C8208	560pF 10% 50V NPO	202904	-	J1409	Jack	203768	Left Aux 2 Audio In	L8502	-	214573	-
C8209	39pF 5% 50V NPO	202905	-	J1410	Jack	203767	Right/Mono Aux 2 Audio In	L8503	10μH	202913	-
C8213	270pF 5% 50V NPO	197597	-	J1411	Jack	203767	Left Audio Out	L8901, 02	10μH	204486	-
C8214, 16	10μF 20% 25V NP	146256	-	J1412	Jack	207847	Right Audio Out		10μH	204486	-
C8217	100pF 5% 50V NPO	174412	-	J1413	Jack	207848	Left Audio Out	L8903	10μH	204486	-
C8218	5pF ±.5pF 50V NPO	202906	-	J1414	Jack	207848	Right Audio Out	# P1	Line Cord	187802	AC, Polarized
C8219, 20	100pF 5% 50V NPO	193340	-	J1418	Jack	207848	Right Audio Out	# R1	27K 2% 1/2W	830327	-
C8222, 23	100pF 5% 50V NPO	193340	-	J1419	Jack	207847	Left Audio Out	# R2	150 5% 1/2W	830115	-
C8228	10μF 20% 25V NP	146256	-	# K4201	Relay	190490	Degaussing	# R3A	33 5% 2W	196014	-
C8230	18pF 10% 50V NPO	181455	-	# KS5001	Socket	207936	CRT	# R4A	39 5% 2W	175788	-
C8233	5pF ±.5pF 50V NPO	202906	-	# L1	Line Filter	-	-	R1203	470 2% 1/8W	182628	-
C8240	10pF 5% 50V NPO	174402	-	# L2	Line Filter	-	-	R1204	5000 WBA Level	181113	-
C8241	560pF 10% 50V NPO	202904	-	L1201	26.6μH	190504	-	# R1371	4.7 5% 1/4W	200197	-
C8242	100pF 5% 50V NPO	193340	-	L1301	4.7μH	197614	-	# R1402	430 5% 1/4W	829143	-
C8308	560pF 5% 50V NPO	200139	-	L2301	.68μH	195708	-	R1403	3000 2% 1/10W	194917	-
C8310	110pF 5% 50V NPO	197596	-	L2302	2.2μH	197616	-	R1404	3000 2% 1/8W	190464	-
C8311	5pF ±.5pF 50V NPO	195909	-	L2303	-	190506	-	# R1406	430 5% 1/4W	829143	-
C8314	560pF 5% 50V NPO	200139	-	L2304	-	190503	-	R1409	100 2% 1/8W	181486	-
C8324	470pF 10% 50V NPO	192040	-	L2305	2.2μH	197616	-	# R1410	100 5% 1/4W	149602	-
C8325	10pF 1% 50V NPO	197602	-	L2306	-	206035	-	# R1410A	2200 2% 1/4W Nonflammable	829222	-
	15pF 5% 50V NPO	202907	-	L2307	12μH	210687	-	R1411	3000 2% 1/10W	194917	-
C8326	.001 10% 50V NPO	197600	-	L2702	39μH	195710	-	R1412	1100 2% 1/10W	202586	-
C8330 (3)	7pF NPO	-	-	L2704	100μH	161243	-	R1413	330 2% 1/8W	181488	-
C8401	330pF 5% 50V NPO	205227	-	L2705	4.7μH	158726	-	R1414	2000 2% 1/4W	175321	-
C8404	10pF ±.5pF 50V NPO	161099	-	L2706	10μH	175409	-	# R1414A	2200 2% 1/4W Nonflammable	829222	-
C8405	33pF 5% 50V NPO	146833	-	L2801, 02, 03	22μH	195712	-	R1419	910 2% 1/10W	205291	-
C8410, 14	1μF 20% 50V NP	196641	-	L2804	-	200161	-	R1420	1300 2% 1/8W	182823	-
C8419	27pF 5% 50V NPO	197604	-	L3101	10μH	175409	-	R1421	510 2% 1/10W	202585	-
C8434, 35	10μF 20% 25V NP	146256	-	# L3601	-	161243	-	R1422	1100 2% 1/10W	202586	-
C8438	270pF 5% 50V NPO	181084	-	L3602	-	207880	-	# R1429	2200 5% 1/2W	176632	-
C8439	220pF 5% 50V NPO	178188	-	L4101	2.2μH	190480	-	R1431	5100 2% 1/8W	175418	-
C8502, 07	100pF 5% 50V NPO	193340	-	# L4201	Degaussing	208549	-	# R1431A	2200 5% 1/2W	176632	-
C8509	330pF 5% 50V NPO	181100	-	L4202	-	208550	-	# R1432	10 5% 1/4W	829010	-
C8514	560pF 10% 50V NPO	202904	-	# L4401	Horizontal Linearity	210895	-	# R1435, 46	150 5% 1/4W	829115	-
C8525	150pF 5% 50V NPO	181091	-	L4701	47μH	190729	-	# R1452, 54	2200 5% 1/4W	-	-
C8526	330pF 5% 50V NPO	181100	-	# L4702	10μH	175409	-		1000 5% 1/4W	108865	-
C8533	330pF 10% 50V NPO	195922	-	# L4803	Pincushion	206391	-	# R1456, 58	2200 5% 1/4W	-	-
C8540, 41	330pF 5% 50V NPO	181100	-	L5001	220μH	195707	-		1000 5% 1/4W	108865	-
C8544	47pF 5% 50V NPO	174409	-								

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
# R1488	2200 5% 1/2W	176632	-	R2918	200 2% 1/8W	178280	-	# R4520	6800 5% 1/2W	179248	-
# R1494	2200 5% 1/2W	176632	-	R2921	4500 Green Bias	190533	-	R4522	15K Vertical Height	200417	-
# R1601	10 5% 1/4W	829010	-	R2922	220 2% 1/8W	181492	-	# R4523	1000 5% 1W	831210	-
R1604	20K Stereo Sap Filter	191389	-	# R2924	10 5% 1/4W	829010	-	# R4544	4.7 5% 1/4W	200197	-
R1606	50K Base Band Filter	190526	-	R2926	100 Red/Blue Drive	190531	-	# R4701	10 10% 1/2W	830010	-
R1609	100K LF Separator	181108	-	R2928	100 Green Drive	190531	-	# R4703	1.5 5% 2W	208435	-
R1611	250K HF Separation	195951	-	R2935	220 2% 1/8W	181492	-	# R4704	Focus/Screen	196072	-
R1616	50K Stereo VCO	190526	-	R2938	200 2% 1/8W	178280	-	# R4710	12 2% 1/4W	829012	-
# R1655	3.3 5% 1/2W	175772	-	R2942, 43	470 2% 1/8W	182628	-	# R4713	68K 10% 1/2W	830368	-
# R1656	10 5% 1/4W	829010	-	R2944	560 2% 1/8W	182822	-	R4715	200 2% 1/4W	175363	-
R1718	43K 2% 1/10W	205363	-	R2945	200 2% 1/8W	178280	-	R4716	680 2% 1/4W	175312	-
R1743	100 2% 1/4W	175325	-	R2946	1000 2% 1/8W	190462	-	R4717	56 2% 1/4W	175318	-
# R1911, 15	4.7 5% 1W	180430	-	# R2947	10 5% 1/4W	829010	-	R4718	100 2% 1/8W	181486	-
R1934, 36	10 5% 1/8W	175741	-	R3115, 17	10K 2% 1/8W	174364	-	# R4719	470 5% 1/2W	830147	-
R1934, 36	300 2% 1/10W	205251	-	R3120	560 2% 1/8W	182822	-	# R4720	10 5% 1/2W Nonflammable	830010	-
# R1941	.51 5% 2W	196073	-	R3121, 36	10K 2% 1/8W	174364	-	# R4721	3.3M 10% 1/2W	181986	-
# R1942	.18 5% 3W Wirewound	207837	-	R3138	22K 2% 1/8W	174367	-	# R4801	680K 5% 1/8W	180329	-
R1942	.51 5% 2W Wirewound	196073	-	R3141	100 2% 1/8W	181486	-	R4802	2000 Width	200199	-
R1950	4700 2% 1/10W	192097	-	R3143	1000 2% 1/8W	190462	-	R4805	10K E/W Pin AMP	189853	-
R1951	150K 2% 1/10W	195931	-	R3305	10K 2% 1/8W	174364	-	# R4809	390 5% 1/2W	175769	-
R1952	4700 2% 1/10W	192097	-	R3307	24K 2% 1/10W	205358	-	R4812	10K 2% 1/8W	174364	-
R1953	150K 2% 1/10W	195931	-	R3309	7500 2% 1/8W	200178	-	# R4821	150 5% 1W	175784	-
# R2301	100 5% 1/4W	175325	-	# R3310	47 5% 1/4W	175040	-	# R4901	10K 5% 1/4W	175317	-
R2302	1500 2% 1/8W	181482	-	R3335	15K 2% 1/10W	205354	-	# R4902	100 2% 1/4W	175325	-
R2303	390 2% 1/8W	178284	-	R3342	91K 2% 1/10W	200180	-	# R4903 (2)	34K 1%	-	-
R2306	100 2% 1/8W	181486	-	R3343	13K 2% 1/8W	178285	-	# R4904 (2)	46.1K 1%	-	-
R2307	620 2% 1/8W	181493	-	R3346	1500 Sub Brightness	200181	-	R4905	22K 2% 1/4W	175054	-
R2311	RF AGC	181107	-	R3402	133K 1% 1/4W	195752	-	R4920	5100 2% 1/4W	175417	-
R2311	RF AGC	189853	-	R3602	10K 2% 1/8W	174364	-	R4923 (2)	150K XRP	-	-
R2320	100 2% 1/8W	181486	-	# R4001	1.8 10% 15W Wirewound	200444	-	R5001, 02, 03	9100 5% 3W	210059	-
# R2323	1.2 5% 1/4W	200172	-	# R4002	2.7M 10% 1/2W	217662	-	R6205	620 2% 1/8W	181493	-
# R2608	.68 5% 1/2W	830B68	-	# R4003	33K 5% 2W	200182	-	# R6210	4.7 5% 1/2W	830A47	-
R2703	1000 2% 1/8W	190462	-	R4102	5100 2% 1/4W	175417	-	R6213	620 2% 1/8W	181493	-
R2706	10K 2% 1/8W	174364	-	# R4103	51K 5% 1/4W	175315	-	# R6218	91 5% 1/4W	829091	-
R2708	680 2% 1/4W	175312	-	R4104	1500 2% 1/4W	175367	-	# R6234	620 5% 2W	205253	-
R2709	910 2% 1/8W	182627	-	R4108	910 2% 1/4W	203097	-	R6410	620 2% 1/8W	181493	-
R2710	100 2% 1/8W	181486	-	R4109	1300 2% 1/4W	103745	-	R6411	430 5% 1/8W	200173	-
R2711	390 2% 1/8W	178284	-	# R4110	.18 5% 2W Wirewound	200183	-	R6421	15K Reference Voltage	200417	-
R2719	15.4K 1% 1/4W	200175	-	R4113	300 Standby	190525	-	R6435	330 2% 1/8W	181488	-
# R2721	27K 5% 1/2W	206037	-	R4114	45.3K 1% 1/4W	176506	-	R6439	12K 2% 1/8W	174365	-
R2725	750 2% 1/10W	202914	-	R4115	3240 1% 1/4W	200184	-	R6440	2700 2% 1/8W	181064	-
R2730	2000 Contrast Preset	181109	-	# R4116 (1)	500 B+ Reg	-	-	R6442	4300 2% 1/8W	201141	-
R2732	1500 2% 1/8W	181482	-	# R4119	330 5% 7W Wirewound	200185	-	R6444	3000 2% 1/8W	190464	-
R2733	620 2% 1/8W	181493	-	R4120	10 2%	-	-	R6445	5600 2% 1/8W	190465	-
R2734	680 2% 1/8W	178286	-	# R4126	6.8 5% 3W Wirewound	206016	-	R6446	1800 2% 1/8W	181484	-
R2735	100 2% 1/8W	181486	-	R4139, 45	10K 2% 1/8W	174364	-	R6447	2200 2% 1/8W	181079	-
R2736	300 2% 1/8W	181055	-	R4148	53.6K 1% 1/4W	200189	-	R6471	62K 2% 1/8W	201142	-
R2737	1000 2% 1/8W	190462	-	# R4149	1.2 5% 1W	831A12	-	# R6481	10 5% 1/4W	829010	-
R2740	560 2% 1/8W	182822	-	R4152	470 2% 1/8W	182628	-	R6483	1300 2% 1/10W	205340	-
R2741	3000 2% 1/10W	194917	-	R4306	15K Horizontal Centering	200417	-	R6487	1000 2% 1/8W	190462	-
R2742	1500 2% 1/8W	181482	-	R4308	120 2% 1/8W	181485	-	R6488	300 Sync Level	190525	-
R2801	1000 2% 1/8W	190462	-	# R4312	47 5% 1/4W	175040	-	R6491	2700 2% 1/8W	181064	-
R2802	30K Chroma Filter	177366	-	# R4313	100 5% 1/2W	176796	-	R6495	12K 2% 1/8W	174365	-
R2804	120K 2% 1/8W	180816	-	# R4314	22 5% 1/2W	175374	-	R6496	1100 2% 1/10W	202586	-
R2813	22K 2% 1/8W	174367	-	R4326	3300 2% 1/10W	195938	-	R8230	510 2% 1/10W	202585	-
R2814	30K 2% 1/10W	200176	-	R4327	15K 2% 1/4W	175360	-	R8235, 36	680 2% 1/10W	195939	-
R2816	10K Tint Preset	181107	-	R4328	5100 2% 1/8W	175418	-	R8239	750 2% 1/10W	202914	-
R2816	10K Tint Preset	189853	-	# R4401	220 5% 1/2W	176651	-	R8249	200 2% 1/10W	202915	-
R2901, 02, 03	1000 2% 1/8W	190462	-	# R4402	10 5% 1/2W	181098	-	R8251	270 2% 1/10W	197623	-
R2910	220 2% 1/8W	178280	-	R4509, 10	10K 2% 1/8W	174364	-	R8258, 60	200 2% 1/10W	202915	-
R2913	4500 Red Bias	190533	-	R4511	8200 2% 1/8W	181065	-	R8305	820 2% 1/8W	176814	-
R2914	200 2% 1/8W	178280	-	R4513	120 2% 1/8W	181485	-		1000 2% 1/8W	190462	-
R2917	4500 Blue Bias	190533	-	# R4518	560 5% 1/4W	829156	-				

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
R8306	3300 2% 1/8W	181080	-
	1000 2% 1/8W	190462	-
R8307	50K Tint	190526	-
R8319	120K 2% 1/10W	207834	-
R8320	20K Output Bias	-	-
R8324	50K Color	190526	-
R8326	50K Burst Blank	190526	-
R8328	330 2% 1/8W	181488	-
R8332	1000 2% 1/10W	197638	-
	470 2% 1/10W	194926	-
R8336	1000 Luma Gain	181106	-
	500 Luma Gain	181112	-
R8419	1000 2% 1/10W	197638	-
R8422	10K Chroma U (R-Y)	181107	-
R8424	10K Chroma V (B-Y)	181107	-
R8517	20K Y Reference	191389	-
R8518	1000 UV Reference	181106	-
R8546	3900 2% 1/10W	197907	-
R8547	20K 2% 1/10W	197904	-
R8549	39K 2% 1/10W	205362	-
R8556	7500 2% 1/10W	205348	-
R8909	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8910	10K 2% 1/4W	175317	-
R8911	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8912	10K 2% 1/4W	175317	-
R8913	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8914	10K 2% 1/4W	175317	-
R8915	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8916	10K 2% 1/4W	175317	-
R8917	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8918	10K 2% 1/4W	175317	-
R8919	20K 2% 1/4W	175351	-
	2000 2% 1/4W	175321	-
R8920	20K 2% 1/4W	175351	-
# RT4201	5.9 Cold PTC	207768	-
RT4501	Thermistor	181161	-
SP1900	Speaker	183159	2 1/4" X 5", 8 Ohms, 5W
SP1900	Speaker	218919	-
SP1903	Speaker	183159	2 1/4" X 5", 8 Ohms, 5W
SP1903	Speaker	218919	-
SW3401	Switch	181724	Audio
	Switch	207842	Audio
SW3403	Switch	181724	Channel Up
	Switch	207842	Channel Up
SW3411	Switch	181724	Video
	Switch	207842	Video
SW3413	Switch	181724	Volume Down
	Switch	207842	Volume Down
SW3421	Switch	181724	Set Up
	Switch	207842	Set Up
SW3423	Switch	181724	Volume Up
	Switch	207842	Volume Up
SW3431	Switch	181724	Channel Down
	Switch	207842	Channel Down
SW3433	Switch	207842	Power

SW4201	Switch	205225	Strength
SW4202	Switch	205225	Polarity
# T1	Driver	210878	-
# T4101	ISO Driver	200204	-
# T4102	SMT	208437	-
# T4301	Horizontal Driver	205196	-
# T4401 (5)	Horizontal Output	208438	-
U3401	Preamp	195885	Remote
# V101	CRT	A89AFF151	A89AFF15X01
Y2801	Crystal	161235	3.58MHz
Y3101	Crystal	209856	8MHz
Y4301	Resonator	200210	503.3kHz
Y6401	Crystal	197652	14.318MHz
Y8301 (3)	Crystal	-	-
Y8401	Crystal	161235	3.58MHz
Y8901	Crystal	196028	8MHz
	Crystal	209856	8MHz
	PC Board	208433	CRT
	PC Board	210883	Digital Comb
	PC Board	209852	Dynamic Focus
	PC Board	210065	Field Correction
	PC Board	204910	Front Panel
	PC Board	207824	S-PIP
	PC Board	207818	S-PIP Micro
	PC Board	207869	SRS
	PC Board	216808	Surround
	PC Board	219831	SVM
	PC Board	216801	10W Analog Audio
	Transmitter (6)	210827	Remote
	Transmitter (6)	206799	Remote
	Transmitter (7)	206799	Remote
	Transmitter (7)	224264	Remote
	Transmitter (8)	206799	Remote
	Transmitter (8)	210827	Remote
	Tuner	M-2030	UHF/VHF
	Tuner	M-2016	UHF/VHF

For SAFETY use only equivalent replacement part.
(1) Part of CR4111 B+ Kit 209948.
(2) Part of XRP Kit 209950.
(3) Part of Y8301 Crystal Kit 221195.
(4) Bonded part of CRT.
(5) Screen and focus controls are part of T4401.
(6) Used in models PS35152FX1 and PS35152JX1.
(7) Used in model PS35153FM1.
(8) Used in model PS35653LW1.
% Use insulating hardware supplied with replacement.