

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 circuoit requires repair. To resume normal operation remove the short from XRP-1 to XRP-2.

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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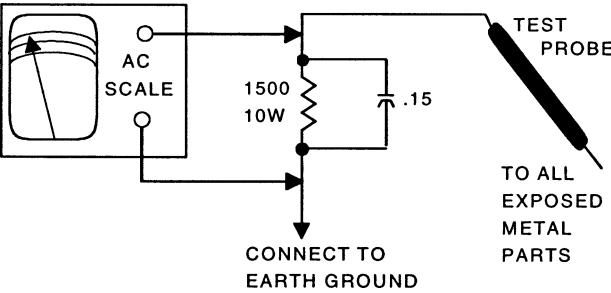
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



UPC
HERE

02PF01839

PHOTOFACT® Technical Service Data

4552

RCA

Model F27730EMFB1 (Chassis CTC169CF5)



Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
F27730EMJX1	CTC169CF5
F27731BKFE1	CTC169CK5
F27731BKJX1	CTC169CK5
F27732SBFE1	CTC169CK5
G27750WKALM1	CTC169CF5
G27750WKDX1	CTC169CF5
G27750WKLM1	CTC169CF5
G27751ATLM1	CTC169CF5



FEBRUARY 2002 SET 4552

SET 4552

MODEL F27730EMFB1 (CHASSIS CTC169CF5)

RCA

INDEX

High Voltage Shutdown Test	1
IC Functions	1
Important Parts Information	1
Miscellaneous Adjustments	1
New Circuit	1
Parts List	6
Placement Chart	4, 5
Safety Precautions	1
Schematic Component Location	4
Schematic Notes	2
Schematics	
Audio	3
CRT	2
PIP	4
Power Supply	2
SRS Audio	4
System Control	3
Television	2
Tuner	1
Video Switching/Comb Filter/ Black Stretch	3
Test Equipment	1
Tuner Information	1

For Supplier Address,
See PHOTOFACT Annual Index

4552

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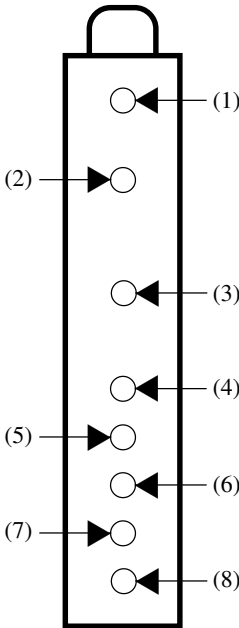
TUNER INFORMATION

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)	-10.0V	-10.0V	-10.0V
6 (+5V)	5.0V	5.0V	5.0V
7 (SDA)	5.0V	5.0V	5.0V
8 (SCK)	5.0V	5.0V	5.0V

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



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.

MISCELLANEOUS ADJUSTMENTS

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.

NEW CIRCUIT

VERTICAL CIRCUIT

The vertical reset pulse from pin 29 of U1001 turns on Q4505 which allows C4518 and C4519 to discharge thru R4504 and resets Q4506. When Q4505 is turned off, C4518 and C4519 charge thru R4507. R4522 adjusts the amount of voltage to C4518 and C4519. This causes a vertical ramp signal to be applied to pin 3 of U4501. Current for vertical deflection is supplied from pins 2 and 3 of T4401. During horizontal retrace, pin 2 of T4401 is more positive than pin 3 of T4401 which causes upward deflection. During horizontal trace, pin 2 of T4401 is more negative than pin 3 of T4401 which causes downward deflection. The net current is controlled by the ON and OFF time of SCR501. U4501 controls the ON and OFF time of SCR501. A horizontal ramp signal is applied to pin 2 of U4501. When the voltage at pin 3 of U4501 exceeds the voltage at pin 2 of U4501, SCR501 is turned on which allows negative current flow through the yoke.

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.

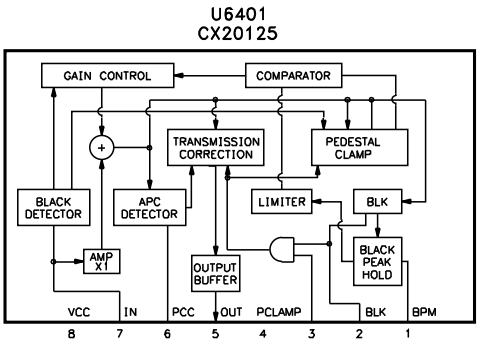
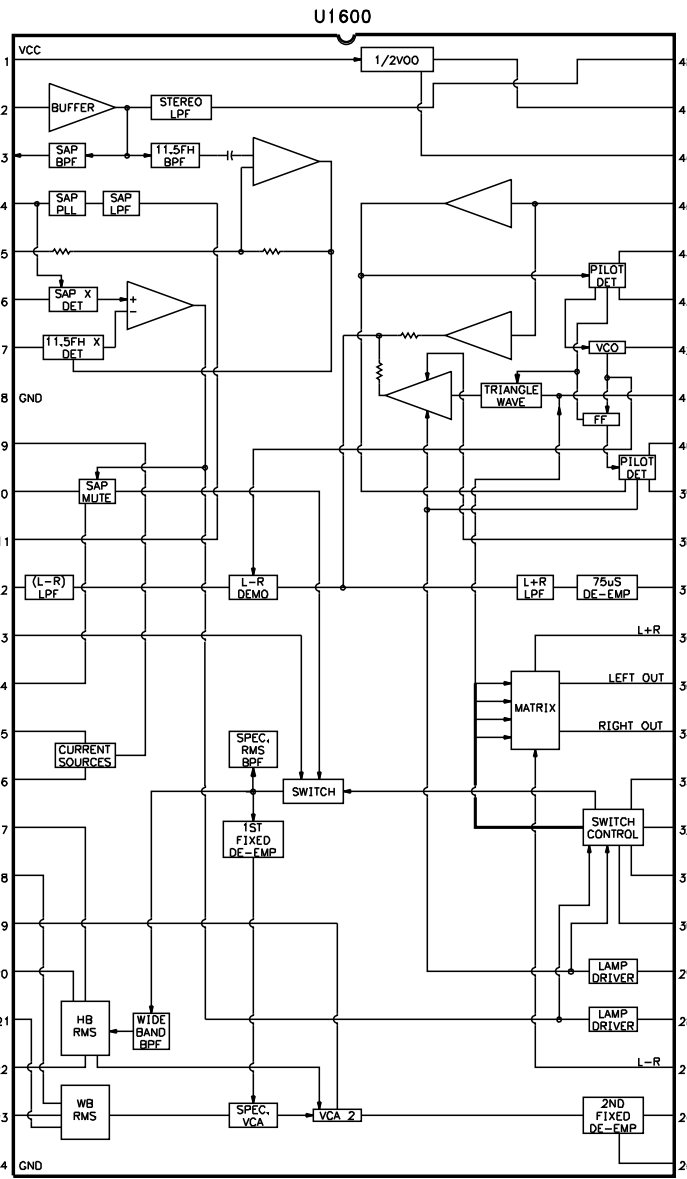
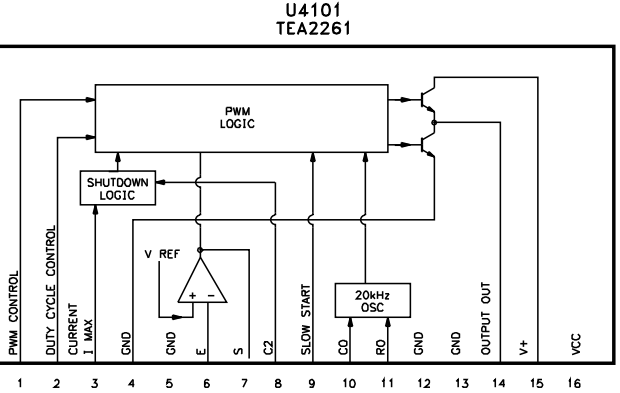
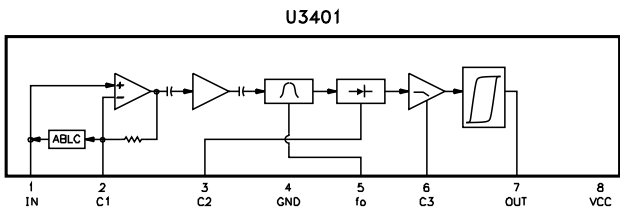
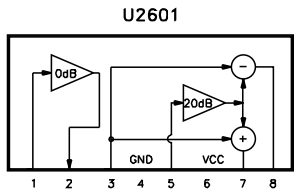
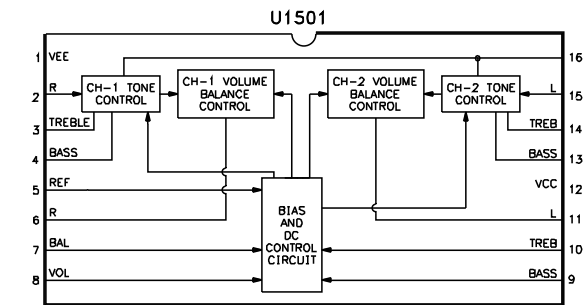
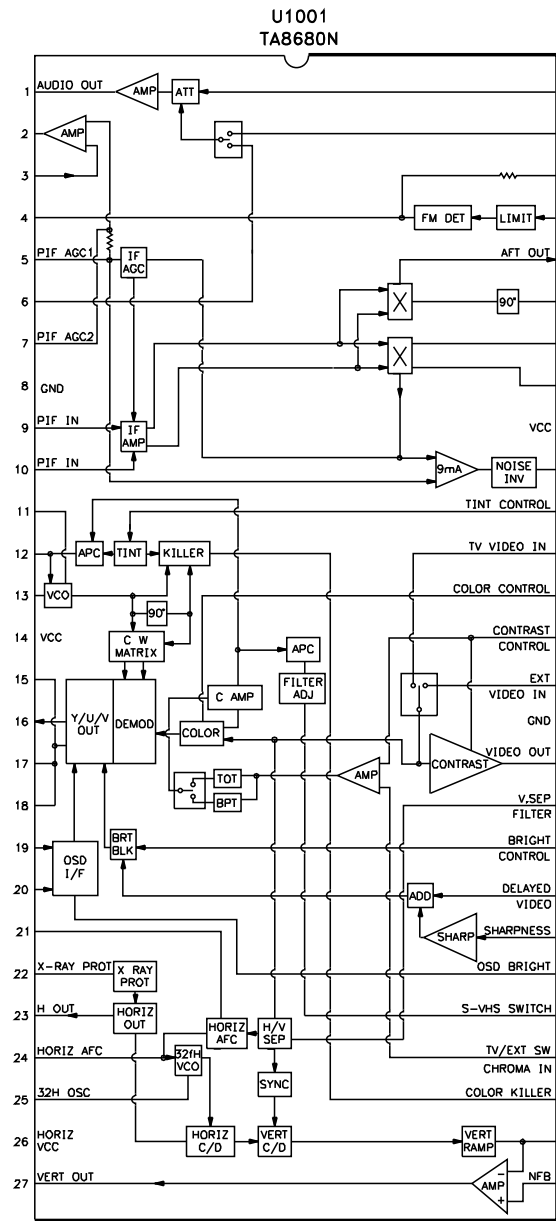
SYNC LEVEL

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.

IC FUNCTIONS



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.

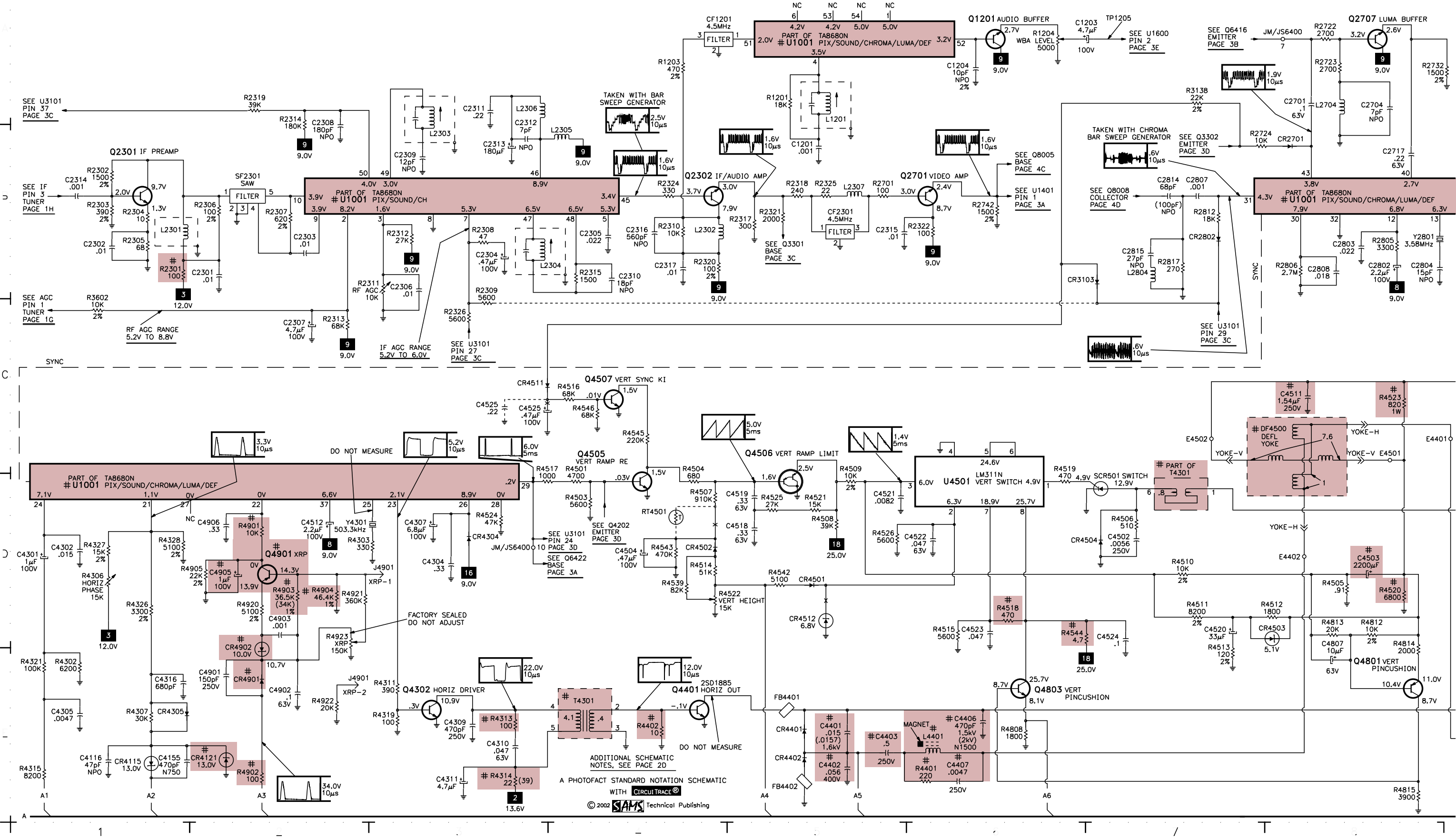
Equipment	Sencore No.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570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

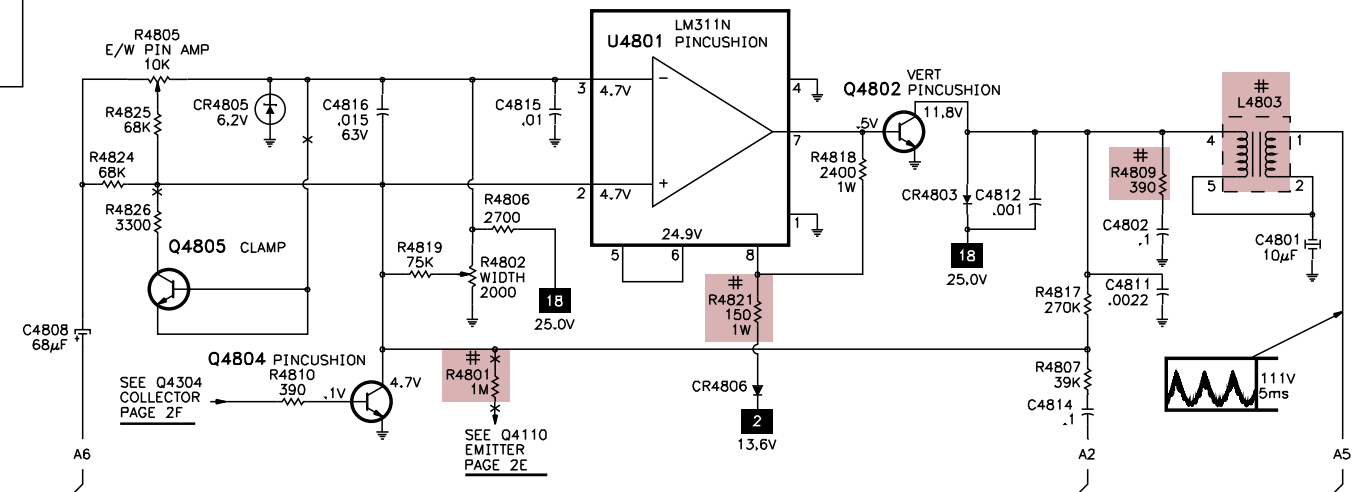
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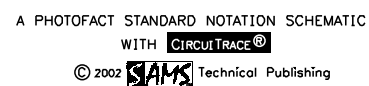


SET 4552 Page 1

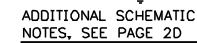
TELEVISION SCHEMATIC





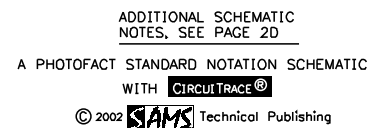
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VIDEO SWITCHING/COMB FILTER/ BLACK STRETCH SCHEMATIC

SEE Q2701
EMITTER
PAGE 2B

SEE Q8001
BASE
PAGE 4C

SEE Q8002
COLLECTOR
PAGE 4D

SEE U3101
PIN 10
PAGE 3D

SEE U3101
PIN 9
PAGE 3D

SEE Q8017
EMITTER
PAGE 4D

SEE U1001
PIN 29
PAGE 2A

SEE Q4402
EMITTER
PAGE 3C

SEE U8001
PIN 19
PAGE 4C

SEE U8003
PIN 2
PAGE 4D


SEE U1001
PIN 43
PAGE 2B


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUIT TRACE

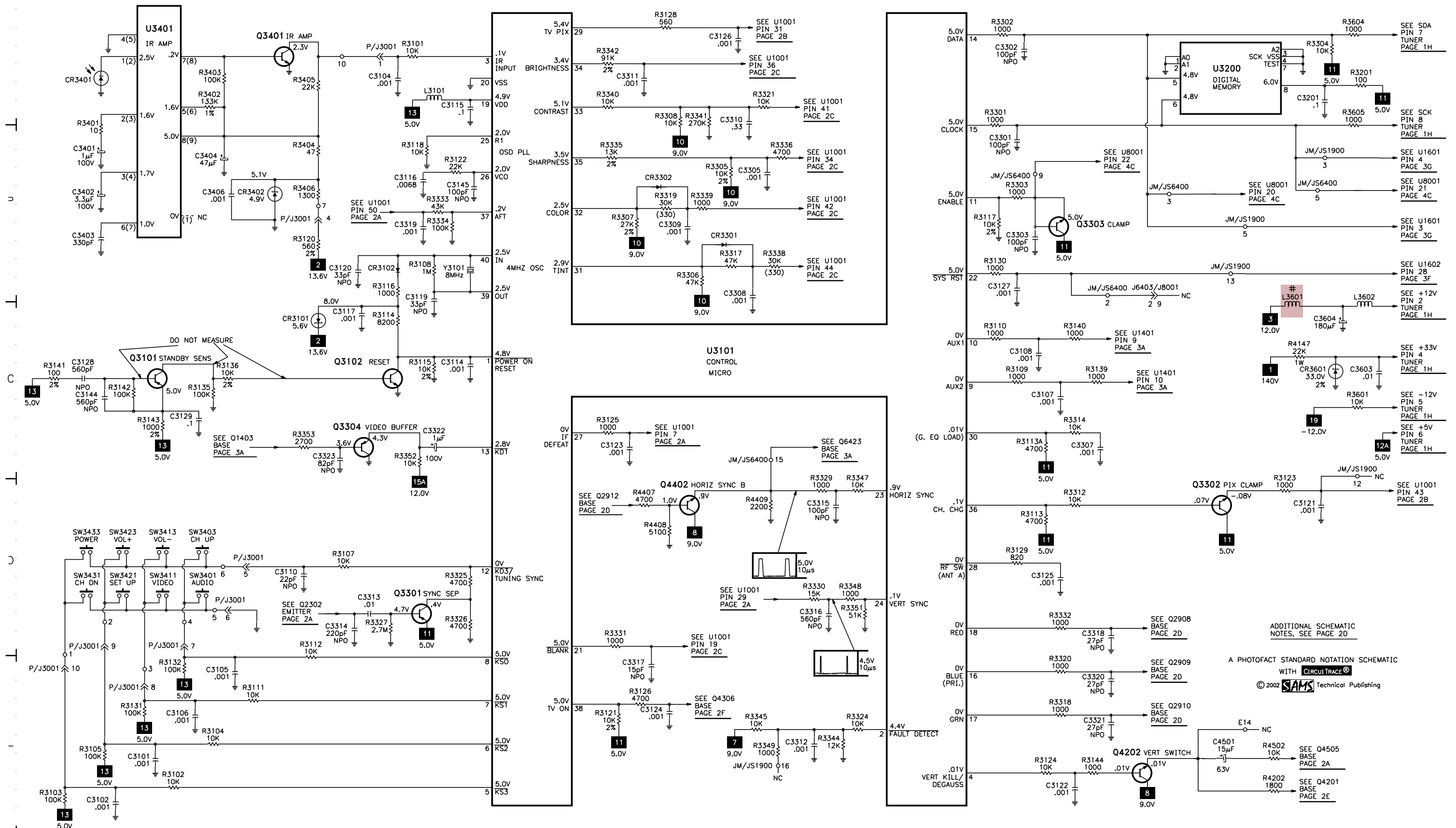
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ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

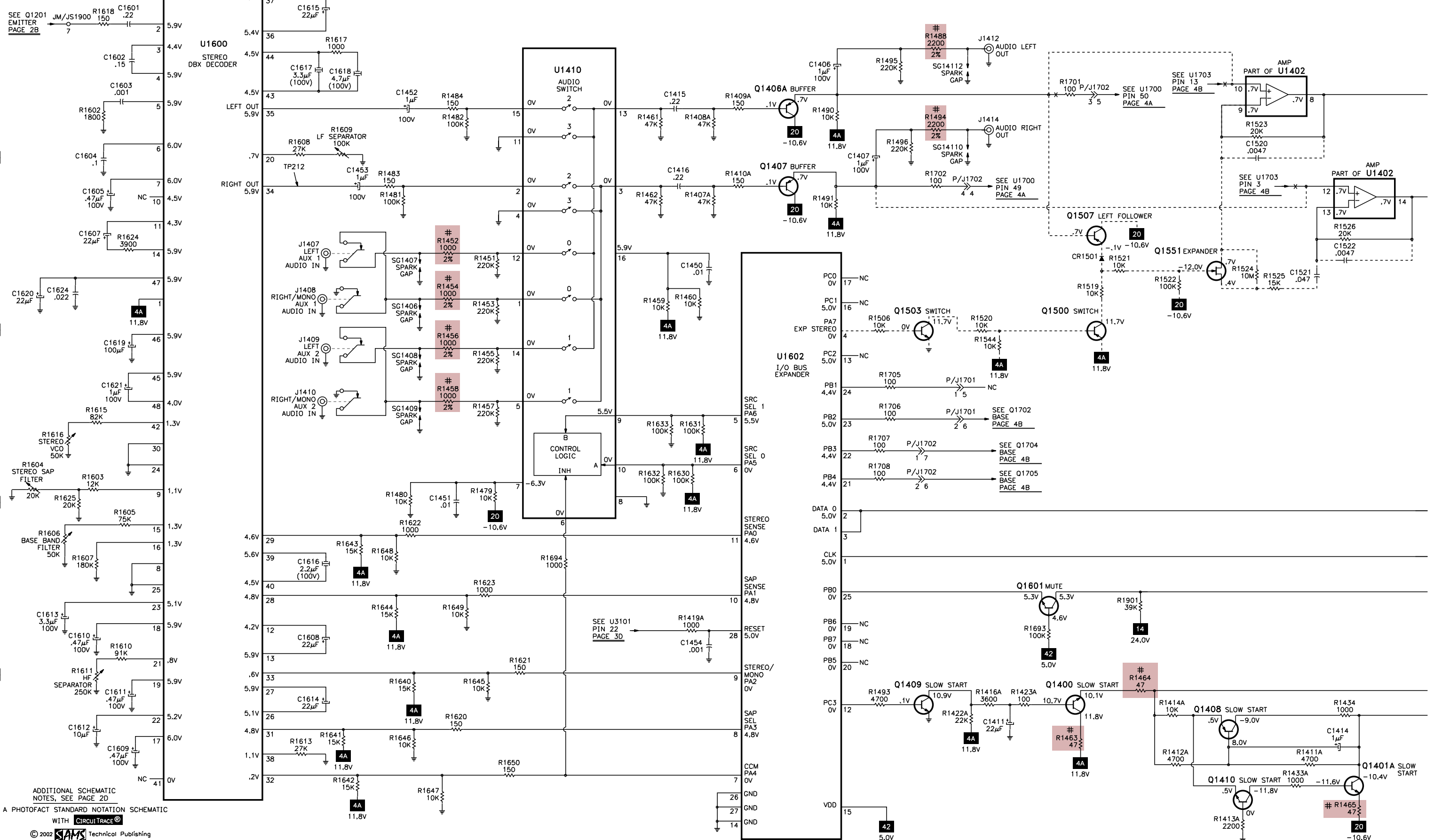
A PHOTOFAC T STANDARD NOTATION SCHEMATIC
WITH 

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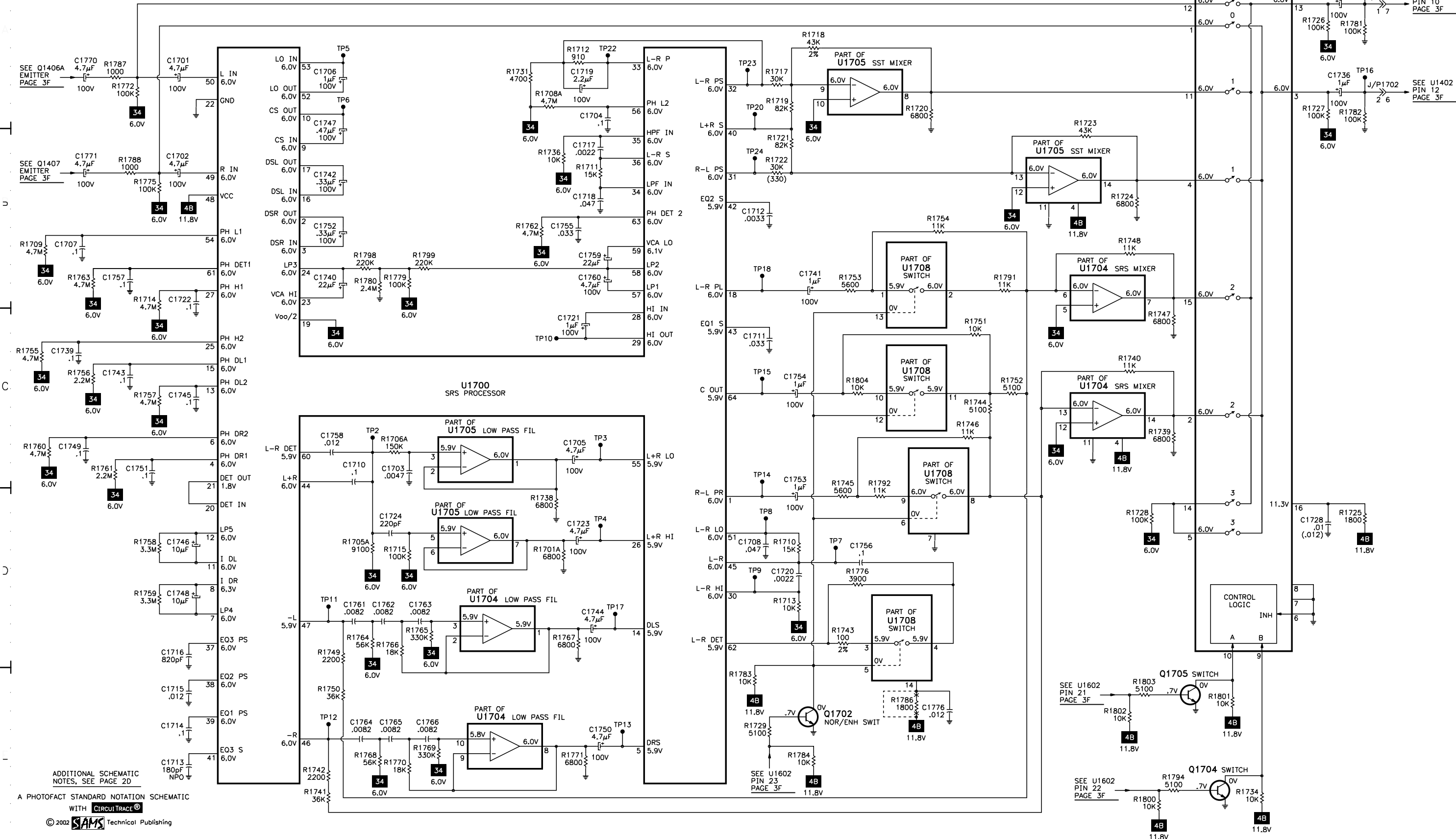


AUDIO SCHEMATIC





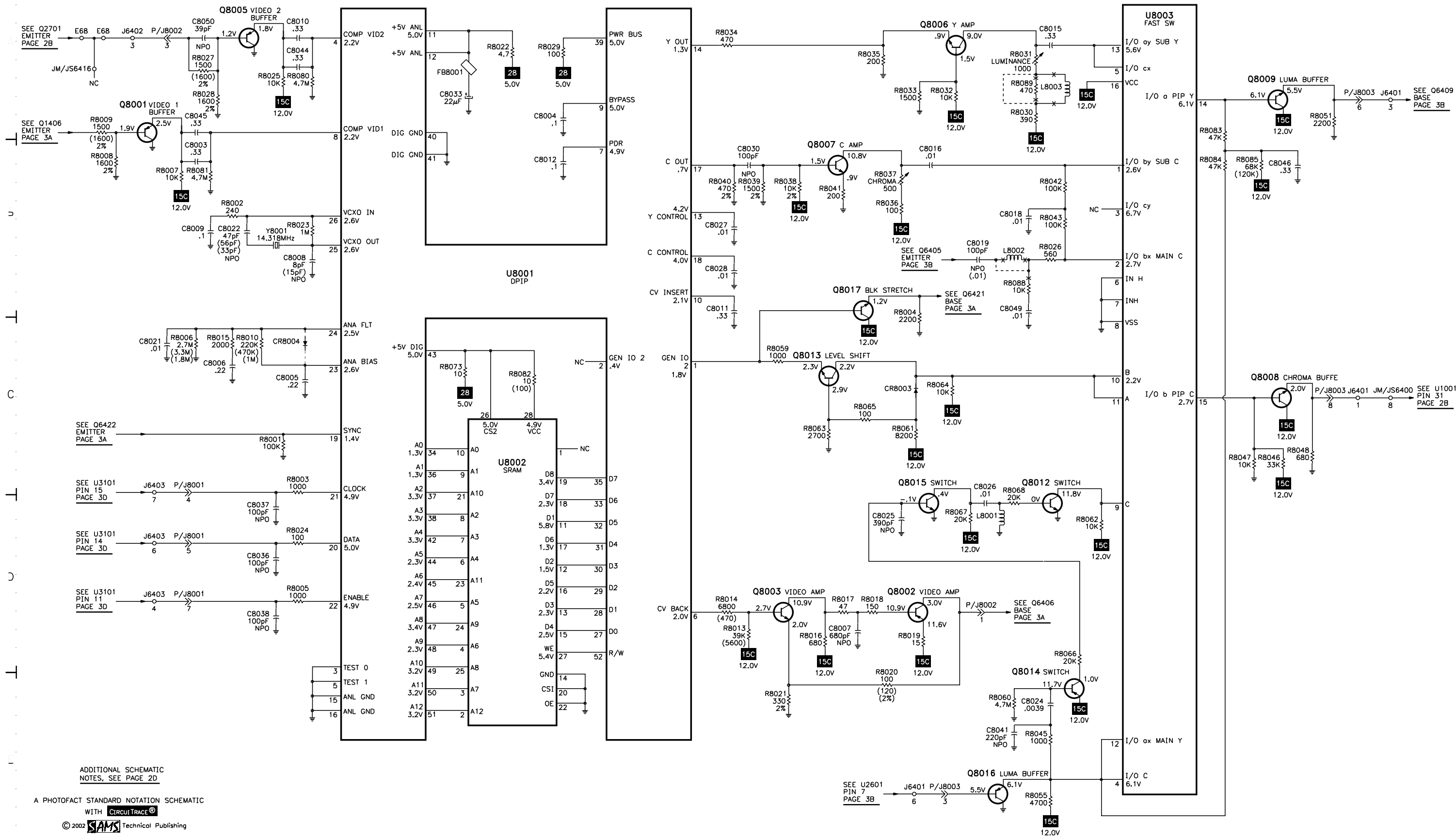
SRS AUDIO SCHEMATIC



PIP SCHEMATIC

C

D



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 20

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WITH CIRCUIT TRACE®

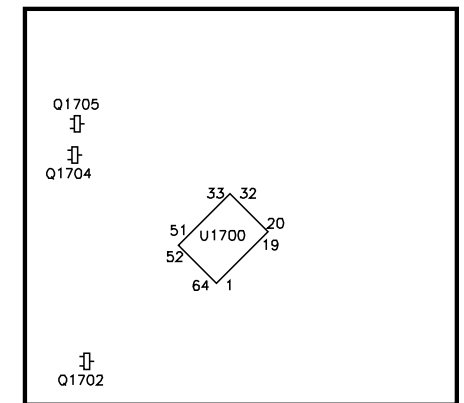
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SCHEMATIC COMPONENT LOCATION GUIDE

C1201	B5	C1713	E65	C2708	A10	C3603	C48	C4713	E11	C8049	C78	DF4500	D7	Q1702	E69	Q8001	B73	R1463	E55	R1694	D52	R1803	E71	R2740	C11	R3142	C41	R4139	E19	R4719	C25	R6465	D37	R8085	B79
C1203	A6	C1714	E65	C2709	B10	C3604	C48	C4714	C26	C8050	A73	DL2601	B37	Q1704	E71	Q8002	D77	R1464	E55	R1701	A54	R1804	C69	R2741	A33	R3143	C41	R4140	E20	R4720	D11	R6466	D36	R8087	E34
C1204	A6	C1715	E65	C2712	C11	C3605	B28	C4715	C25	CF1201	A4	DL2701	A9	Q1705	E71	Q8003	D77	R1465	E56	R1701A	D67	R1901	D55	R2742	B6	R3144	E46	R4142	E20	R4801	E14	R6467	D37	R8088	B78
C1401	B33	C1716	D65	C2715	C11	C4002	A18	C4716	D12	CF2301	B5	F4001	A17	Q1901	D60	Q8005	A74	R1479	D51	R1702	B54	R1902	D60	R2801	B9	R3201	A48	R4143	E19	R4802	E14	R6468	D37	R8089	A78
C1402	B33	C1717	B68	C2717	B8	C4005	A18	C4801	E16	CR1401	B34	FB4101	C21	Q1902	C62	Q8006	A78	R1480	D51	R1705	C53	R1903	A62	R2802	B9	R3301	A46	R4144	E11	R4805	D13	R6469	D37	RT4201	A18
C1403	C33	C1718	B68	C2718	A9	C4007	A19	C4802	E16	CR1402	B34	FB4102	C21	Q1903	C62	Q8007	B77	R1481	B51	R1705A	D66	R1904	B62	R2803	C9	R3302	A46	R4145	D20	R4806	E14	R6470	D37	RT4501	D4
C1404	A33	C1719	A68	C2720	B11	C4008	B19	C4807	E8	CR1403	D33	FB4103	C21	Q1904	C62	Q8008	C79	R1482	A51	R1706	C53	R1905	D60	R2804	C10	R3303	B46	R4146	D20	R4807	E16	R6471	D38	SCR501	D6
C1405	C36	C1720	D69	C2723	C11	C4009	A19	C4808	E13	CR1404	A34	FB4401	E5	Q2301	B1	Q8009	A79	R1483	B51	R1706A	C67	R1906	A62	R2805	B8	R3304	A48	R4147	C47	R4808	E6	R6472	D38	SF2301	B2
C1406	A53	C1721	C68	C2724	A33	C4101	D18	C4811	E16	CR1405	C36	FB4402	E5	Q2302	B4	Q8012	D78	R1484	A51	R1707	C53	R1907	C62	R2806	B8	R3305	B44	R4148	D18	R4809	E16	R6473	D34	SG1401	B33
C1406A	C33	C1722	C65	C2801	B10	C4102	C19	C4812	E16	CR1406	C34	FB8001	A75	Q2701	B6	Q8013	C77	R1488	A54	R1708	C53	R1908	D60	R2809	A14	R3306	B44	R4149	C18	R4810	E14	R6474	D35	SG1402	C36
C1407	B53	C1723	D68	C2802	B8	C4103	D18	C4813	D12	CR1501	B55	FL4001	A17	Q2702	A9	Q8014	E78	R1490	A53	R1708A	B67	R1909	A60	R2810	B14	R3307	B44	R4150	B19	R4812	D8	R6475	E35	SG1403	B33
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C1408	D59	C1726	B28	C2804	B8	C4105	B19	C4815	D14	CR1901	B62	J1402	B33	Q2707	A8	Q8016	E78	R1493	E53	R1710	D69	R1935	B62	R2812	B7	R3309	A11	R4152	E19	R4814	E8	R6477	D39	SG1405	C33
C1408A	E28	C1728	D72	C2805	B9	C4106	C18	C4816	D14	CR1902	B62	J1403	C36	Q2708	C13	Q8017	C77	R1494	A54	R1711	B68	R1936	B62	R2813	B10	R3310	E27	R4201	B17	R4815	E8	R6478	D39	SG1406	B51
C1409	D59	C1733	B28	C2806	B11	C4107	C19	C4817	D12	CR1903	B63	J1407	B50	Q2709	B11	R3	B64	R1495	A54	R1712	A67	R1937	B62	R2814	B10	R3312	D46	R4202	E47	R4817	E16	R6479	D39	SG1407	B51
C1409A	A35	C1734	B27	C2807	B7	C4108	C20	C4901	E2	CR1904	B63	J1408	B50	Q2903	A14	R4	B63	R1496	B54	R1713	D69	R1938	A62	R2815	B9	R3314	C46	R4203	B17	R4818	E15	R6480	D40	SG1408	C51
C1410	C34	C1735	A72	C2808	B8	C4109	C20	C4902	E2	CR1905	C61	J1409	C50	Q2904	B14	R1201	A5	R1501	A57	R1714	C65	R1940	C63	R2816	C9	R3317	B44	R4302	E1	R4819	E14	R6481	D40	SG1409	C51
C1411	E54	C1736	A72	C2809	E28	C4110	C21	C4903	D2	CR2701	B8	J1410	C50	Q2905	C14	R1203	A4	R1502	B57	R1715	D67	R1941	C63	R2817	B7	R3318	E46	R4303	D2	R4821	E15	R6482	E37	SG1414	D63
C1411A	C35	C1739	C65	C2810	E28	C4111	C21	C4905	D2	CR2702	B11	J1411	D63	Q2906	A13	R1204	A6	R1503	A60	R1717	A69	R1942	C59	R2901	A15	R3319	B44	R4306	D1	R4824	E13	R6483	D27	SG1415	E63
C1412	E61	C1740	B66	C2811	A14	C4112	C21	C4906	D2	CR2704	C11	J1412	A54	Q2908	A15	R1304	E12	R1504	B59	R1718	A69	R1943	C63	R2902	B16	R3320	E46	R4307	E1	R4825	D13	R6484	E38	SG4701	D10
C1412A	B35	C1741	C69	C2812	B14	C4113	D21	C5001	E31	CR2705	C12	J1413	D63	Q2909	B16	R1401	B33	R1505	B59	R1719	A69	R1944	C63	R2903	B15	R3321	B45	R4308	E24	R4826	E13	R6485	E37	SP1900	A64
C1413	E60	C1742	B66	C2813	C13	C4114	E18	C5002	C31	CR2706	C11	J1414	A54	Q2910	B15	R1402	B33	R1506	C53	R1720	B69	R1945	C61	R2908	B12	R3324	E45	R4309	E23	R4901	D2	R6486	D34	SP1903	B64
C1414	E56	C1743	C65	C2814	B7	C4115	D19	C5013	B29	CR2802	B7	K4201	A18	Q2911	A12	R1403	B33	R1507	C59	R1721	B69	R1946	C61	R2910	A16	R3325	D43	R4310	E23	R4902	E2	R6487	C27	SW3401	D41
C1415	A52	C1744	D68	C2815	B7	C4116	E1	C5014	A29	CR2901	A12	K4201	B18	Q2912	B13	R1404	B34	R1508	C58	R1722	B69	R1947	C62	R2911	A15	R3326	D43	R4311	E3	R4903	D2	R6488	C74	SW3403	D41
C1416	B52	C1745	C65	C2905	B12	C4118	B19	C5015	C29	CR3101	C42	K55001	A31	Q3101	C41	R1405	B33	R1509	B58	R1723	B70	R1948	C62	R2912	A29	R3327	D43	R4312	D23	R4904	D2	R6489	B74	SW3411	D41
C1450	B52	C1746	D65	C2909	A12	C4136	D19	C6401	C39	CR3102	B43	L1201	A5	Q3102	C42	R1406	B33	R1510	B58	R1724	B71	R2301	B1	R2913	A29	R3329	D45	R4313	E3	R4905	D2	R6490	D74	SW3413	D41
C1451	D51	C1747	B66	C2910	A13	C4138	E20	C6402	D35	CR3103	B7	L2301	B1	Q3301	D43	R1407A	B52	R1511	B59	R1725	D72	R2302	B1	R2914	B16	R3330	D45	R4314	E3	R4920	D2	R8004	C77	SW3421	D41
C1452	A51	C1748	D65	C2911	B14	C4139	E20	C6403	C28	CR3301	B44	L2302	B4	Q3302	D47	R1408	C33	R1514	A57	R1726	A72	R2303	B1	R2915	B14	R3331	E44	R4315	E1	R4921	D2	R8005	D74	SW3423	D41
C1453	B50	C1749	C65	C2918	B16	C4140	A22	C6404	D37	CR3302	B44	L2303	B3	Q3303	B46	R1408A	A52	R1515	B57	R1727	B72	R2304	B1	R2916	B29	R3332	D46	R4317	E22	R4922	E2	R8006	C73	SW3431	D41
C1454	D52	C1750	E68	C2919	B15	C4141	A28	C6405	C28	CR3401	A41	L2304	B3	Q3304	C42	R1409	C33	R1519	B55	R1728	D71	R2305	B1	R2917	B29	R3333	B43	R4318	E22	R4923	D2	R8007	B73	SW3433	D41
C1455	E12	C1751	C65	C2920	A16	C4142	B22	C6406	B35	CR3402	B42	L2305	B3	Q3401	A42	R1409A	A53	R1520	C54	R1729	E69	R2306	B2	R2918	C16	R3334	B43	R4319	E3	R5001	A30	R8008	B73	T4101	D21
C1456	B28	C1752	B66	C2924	A14	C4143	B22	C6406	B35	CR3403	E27	L2306	B3	Q4101	C20	R1410	C33	R1521	B55	R1731	A67	R2307	B2	R2919	C14	R3335	B44	R4321	E1	R5002	C30	R8009	B73	T4102	A21
C1500	A57	C1753	D69	C2925	B14	C4144	B22	C6407	B36	CR3601	C48	L2307	B5	Q4105	D19	R1410A	B53	R1522	B55	R1734	E71	R2308	B3	R2920	C29	R3336	B45	R4322	E24	R5003	B30	R8010	C74	T4301	D7
C1501	B57	C1754	C69	C2926	C14	C4145	A28	C6408	B37	CR4001	A18	L2601	C37	Q4106	D20	R1411	A34	R1523	B55	R1736	B67	R2309	C3	R2921	C29	R3338	B45	R4326	D1	R5004	A31	R8013	D76	T4301	E4
C1502	B57	C1755	B68	C2928	B28	C4146	D22	C6409	C39	CR4002	A18	L2602	B38	Q4107	D20	R1411A	E56	R1524	B56	R1738	D67	R2310	B4	R2922	A12	R3339	B44	R4327	D1	R5005	C31	R8014	D76	T4401	C9
C1503	A57	C1756	D69	C3101	E41	C4147	D22	C6412	D28	CR4003	A18	L2603	B37	Q4108	E18	R1412	A35	R1525	B56	R1739	C71	R2311	C3	R2923	A12	R3340	B44	R4328	D1	R5006	B31	R8015	C74	U1001	B2
C1504	A58	C1757	B65	C3102	E41	C4148	D21	C6413	D28	CR4004	A18	L2702	A10	Q4109	D20	R1412A	E55	R1526	B56	R1740	C70	R2312	B3	R2924	A13	R3341	B44	R4401	E6	R5009	C31	R8016	D77	U1401	A34
C1506	A58	C1758	C66	C3103	E27	C4149	E21	C6414	E38	CR4101	D18	L2704	B8	Q4110	E17	R1413	A35	R1544	C54	R1741	E66	R2313	C2	R2925	A14	R3342	A44	R4402	E4	R5010	A29	R8017	D77	U1402	A55
C1507	A59	C1759	B68	C3104	A43	C4150	E18	C6415	E39	CR4102	D21	L2705	E27	Q4111	E19	R1413A	E55	R1563	C60	R1742	E66	R2314	B2	R2926	A14	R3343	A11	R4404	D13	R5011	C30	R8018	D77	U1402	B56
C1508	B27	C1760	B68	C3105	E42	C4151	C20	C6416	E38	CR4105	C21	L2706	B23	Q4201	B17	R1414	A36	R1564	A60	R1743	D69	R2315	B4	R2927	B14	R3344	E45	R4406	C13	R5012	B30	R8019	D77	U1402	D60
C1509	B59	C1761	D66	C3106	E41	C4152	B20	C6417	E37	CR4106	D18	L2801	A14	Q4202	E47	R1414A	E55	R1577	B58	R1744	C70	R2317	B5	R2928	C14	R3345	E44	R4407	D44	R5013	E31	R8020	E77	U1402	E60
C1510	B59	C1762	D66	C3107	C46	C4153	B19	C6418	D36	CR4111	E18	L2802	B14	Q4301	E24	R1416	C33	R1578	B58	R1745	D69	R2318	B5	R2929	C14	R3346	A11	R4408	D44	R5024	C30	R8021	E77	U1410	A52
C1511																																			

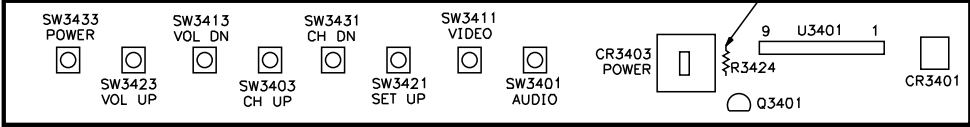
RCA MODEL F27730EMFB1 (CHASSIS CTC169CF5)

SRS AUDIO BOARD (BOTTOM VIEW)

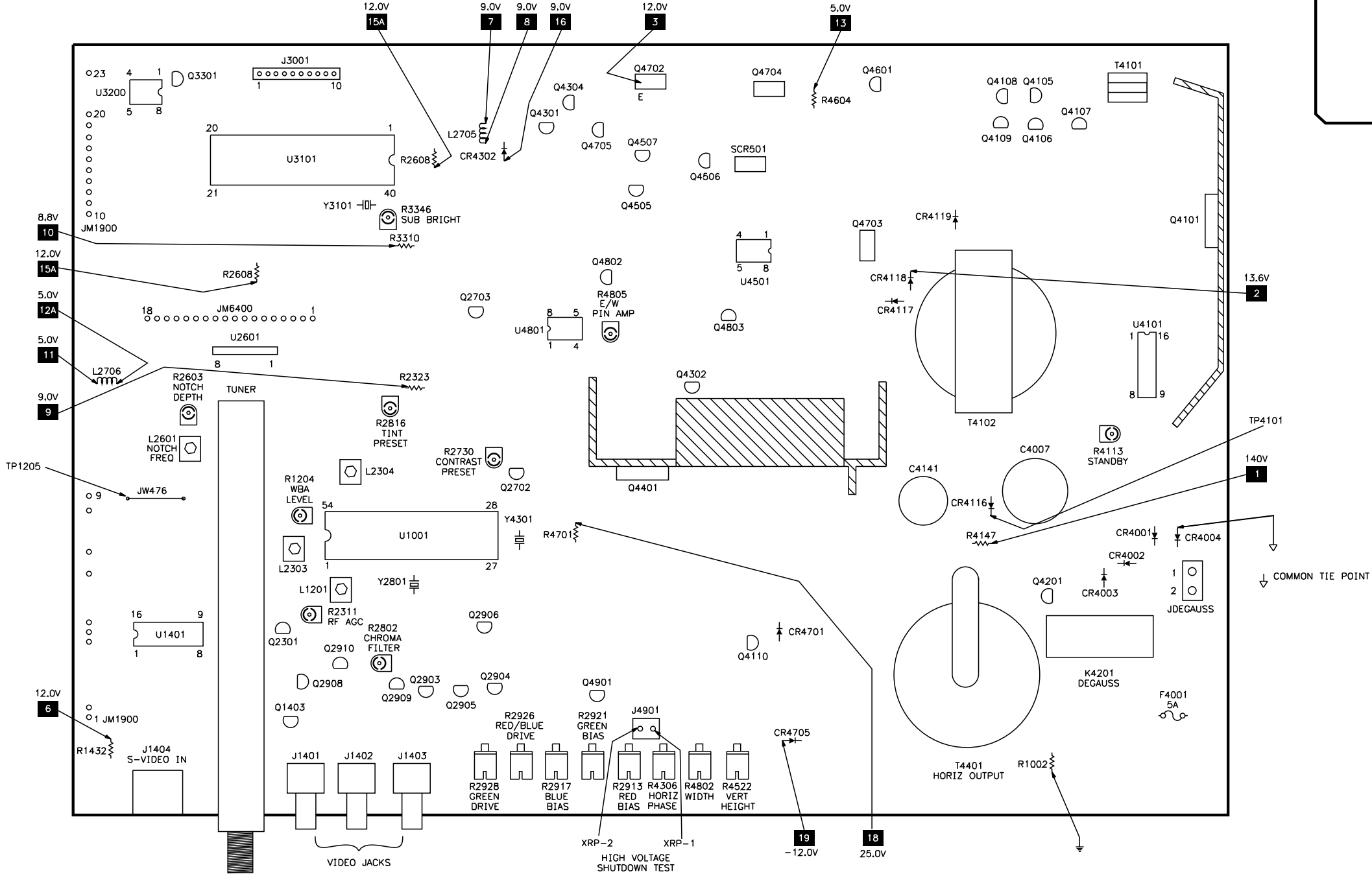


PLACEMENT CHART continued

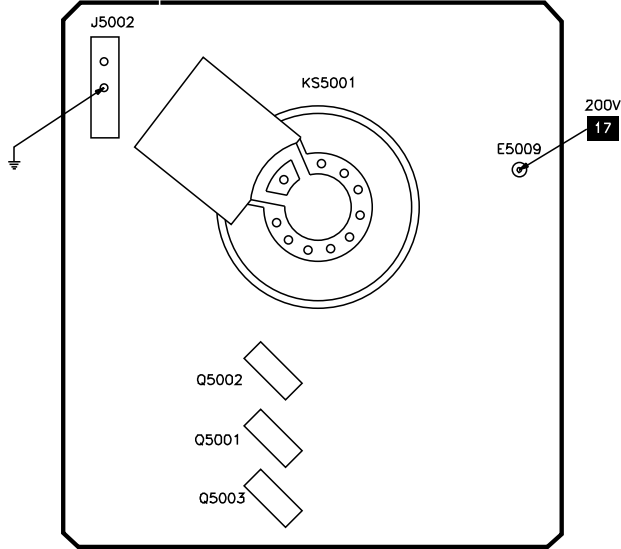
FRONT PANEL



MAIN BOARD (TOP VIEW)

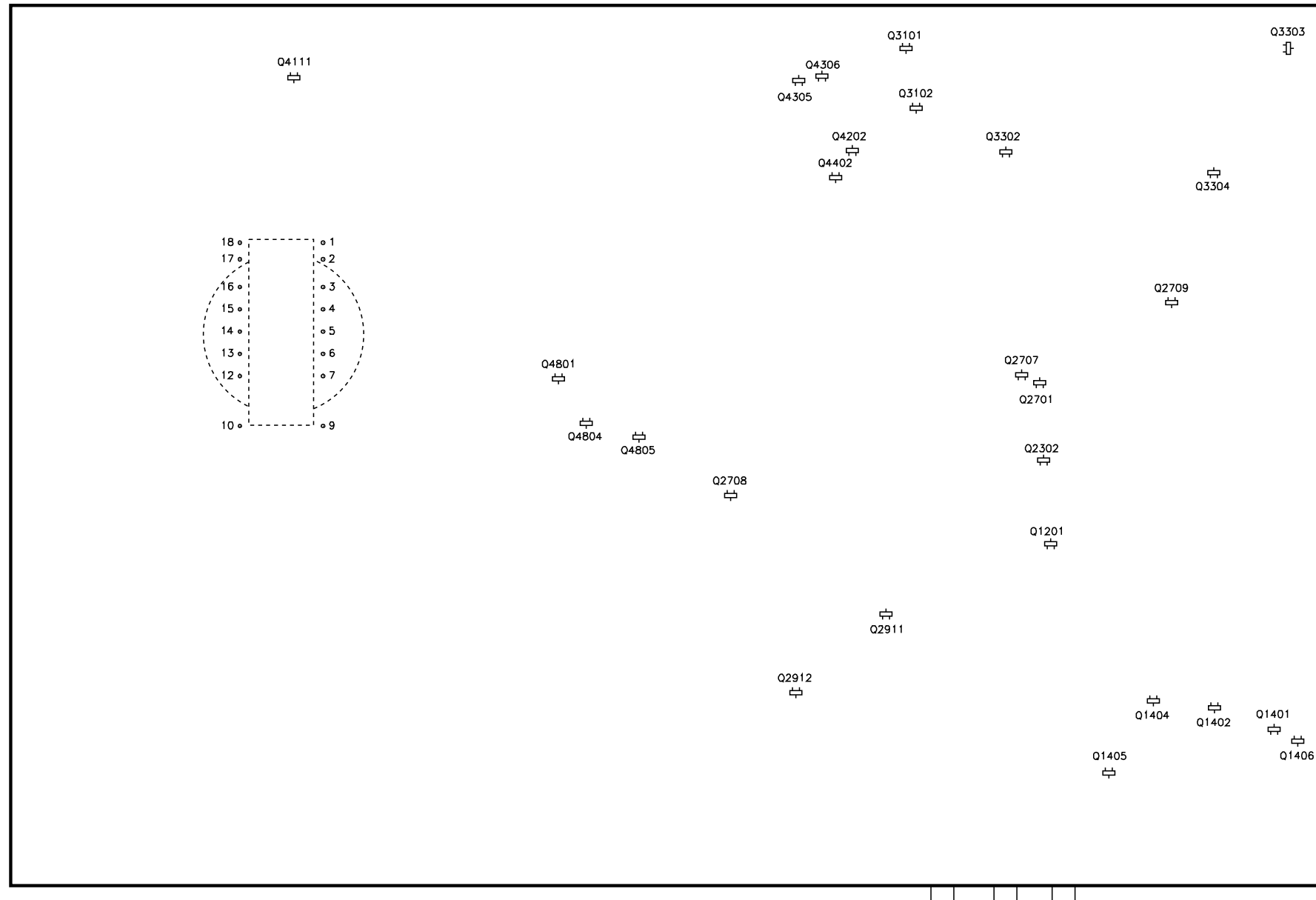


CRT BOARD



RCA

MODEL F2730EMFB1 (CHASSIS CTC169CF5)



Q6416 Q6415 Q6418 Q6419 Q6414 Q6417 Q6421 Q6422 Q6423 Q6420 Q6405 Q6403 Q6404 Q6402 Q6401 Q6407 Q6409 Q6406

PARTS LIST

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
CR1401 Thru	-	176746	NTE5011A	Q2903, 04, 05	-	176980	NTE123AP	U8003	-	197646	-
CR1404	-	192848	NTE5018A	Q2906	-	143806	NTE159	U8004	-	204281	-
CR1405	-	164874	NTE177	Q2908, 09, 10	-	177789	NTE32	C1204	10pF 2% 50V NPO	174402	-
CR1406	-	164717	NTE519	Q2911	-	215495	NTE123AP	C1406A	39pF 5% 50V NPO	181090	-
CR1501, 02	-	147015	NTE125	Q2912	-	215495	-	C1407A	150pF 5% 50V NPO	181091	-
CR1901, 02	-	164717	NTE519	Q2912	-	215496	-	C1410	470pF 5% 50V N750	210893	-
CR1903, 04	-	164717	NTE519	Q3101	-	215496	-	C1616	2.2µF 50V NP	190527	-
CR1905	-	161081	NTE5011T1	Q3102	-	215495	-	-	2.2µF 100V NP	195691	-
CR2701, 02	-	164717	NTE519	Q3301	-	145410	NTE159	C1617	3.3µF 50V NP	190528	-
CR2704, 05, 06	-	164717	NTE519	-	-	219025	NTE159	-	3.3µF 100V NP	151119	-
CR2802	-	164717	NTE519	Q3302, 03	-	215495	-	C1618	4.7µF 50V NP	190529	-
CR2901	-	164717	NTE519	Q3304	-	215496	-	-	4.7µF 100V NP	189992	-
CR3101	-	176746	NTE5011A	Q3401	-	146847	NTE123AP	C1713	180pF 5% 50V NPO	190543	-
-	-	215488	NTE136A	Q4101	SGSIF461	200165	NTE2311	C2308	180pF 5% 50V NPO	190543	-
CR3102, 03	-	164717	NTE519	Q4105	-	143802	NTE159	C2309	12pF 5% 50V NPO	174403	-
CR3301, 02	-	164717	NTE519	-	-	219025	NTE159	C2310	18pF 5% 50V NPO	214028	-
CR3401	-	150711	-	Q4106	-	143802	NTE159	C2312	7pF ±.5pF 50V NPO	174401	-
CR3402	-	182827	NTE5010A	-	-	219025	NTE159	C2316	560pF 5% 50V NPO	200139	-
CR3403	-	175393	-	Q4107	-	146847	NTE123AP	C2602	33pF 5% 50V NPO	174408	-
CR3601	-	200155	NTE5035A	-	-	223704	-	C2603	100pF 5% 50V NPO	174412	-
-	-	215489	-	Q4108	-	143802	NTE159	C2604	15pF 5% 50V NPO	174404	-
CR4001 Thru	-	147015	NTE125	Q4109	-	219025	NTE159	C2606	22pF 5% 50V NPO	174406	-
CR4004	-	207878	NTE519	-	-	146847	NTE123AP	-	470pF 5% 50V NPO	214035	-
CR4101	-	223338	-	Q4110	-	223704	-	-	.001 10% 50V	197600	-
-	-	164717	NTE519	Q4111	-	143802	NTE159	C2704	7pF ±.5pF 50V NPO	174401	-
CR4102	-	207878	NTE519	Q4201	-	215496	NTE123AP	C2707	82pF 5% 50V NPO	176828	-
CR4105	-	176296	NTE552	-	-	146847	-	-	120pF 5% 50V NPO	174414	-
# CR4111 (1)	-	-	-	Q4202	-	223704	-	C2718	100pF 5% 50V NPO	174412	-
CR4112	-	164874	NTE177	Q4301	-	215495	NTE123AP	C2724	180pF 5% 50V NPO	193338	-
CR4115	-	136634	NTE143A	-	-	146847	-	C2804	15pF 5% 50V NPO	174404	-
-	-	226783	-	Q4302	-	223704	-	C2811, 12, 13	22pF 5% 50V NPO	194903	-
CR4116	-	200157	NTE142A	Q4304	-	200168	NTE123AP	C2814	68pF 5% 50V NPO	174410	-
# CR4117	-	176296	NTE552	-	-	146847	-	-	100pF 5% 50V NPO	174412	-
# CR4118, 19, 20	-	164590	NTE580	Q4305, 06	-	223704	-	C2815	27pF 10% 50V NPO	192050	-
# CR4121	-	136634	NTE143A	Q4401	2SD1885	215495	NTE2324%	C2905	18pF 5% 50V NPO	174405	-
-	-	226783	-	Q4402	-	200167	-	-	39pF 3% 50V NPO	181090	-
CR4122	-	200158	-	Q4505	-	215495	NTE123AP	C2909	18pF 5% 50V NPO	174405	-
CR4123	-	176746	NTE5011A	-	-	146847	-	C2924, 26	560pF 5% 50V NPO	200139	-
-	-	215488	NTE136A	Q4506	-	223704	-	C3110	22pF 5% 50V NPO	194903	-
CR4201	-	164717	NTE519	Q4507	-	148970	NTE123AP	C3119, 20	33pF 5% 50V NPO	174408	-
CR4302	-	164717	NTE519	-	-	146847	-	C3128	560pF 5% 50V NPO	200139	-
CR4303	-	161871	NTE145A	Q4601	-	223704	NTE123AP	C3144	560pF 10% 50V NPO	202904	-
-	-	228429	-	-	-	146847	-	C3145	100pF 5% 50V NPO	193340	-
CR4304, 05	-	164717	NTE519	Q4702, 03, 04	-	223704	-	C3301, 02	100pF 5% 50V NPO	174412	-
CR4401	-	198596	-	Q4705	-	157627	NTE54	C3301	100pF 5% 50V NPO	193340	-
CR4402	-	164589	NTE580	-	-	146847	NTE123AP	C3314	220pF 5% 50V NPO	178188	-
CR4403	-	139706	NTE177	Q4801	-	223704	-	C3315	100pF 5% 50V NPO	174412	-
CR4404	-	164717	NTE519	Q4802	-	215496	-	C3316	560pF 10% 50V NPO	202904	-
CR4501	-	164717	NTE519	Q4803	-	200168	-	C3317	15pF 5% 50V NPO	202907	-
CR4502	-	139706	NTE177	-	-	146847	NTE123AP	C3318, 20, 21	27pF 5% 50V NPO	174407	-
CR4503	-	146320	NTE135A	-	-	223704	-	C3323	82pF 5% 50V NPO	192049	-
-	-	198602	-	# Q4804, 05	-	215495	NTE159	# C4002, 05	680pF 20% 1kV	190538	-
CR4504	-	164589	NTE580	Q4901	2SC4544	147665	NTE376%	# C4006	Capnistor	250102	-
CR4511	-	164717	NTE519	Q5001 (2)	-	146826	NTE376%	# C4007	680µF 10% 200V	190560	-
CR4512	-	132616	NTE5014A	Q5001 (3)	-	208434	NTE376%	-	820µF 10% 200V	190561	-
CR4606	-	161081	NTE5011T1	Q5002 (2)	2SC4544	146826	NTE376%	# C4008	.005 20% 120V	195697	-
CR4701	-	176296	NTE552	Q5002 (3)	-	208434	NTE376%	# C4110	470pF 5% 1.5kV N1500	143242	-
CR4702	-	153672	NTE519	Q5003 (2)	2SC4544	146826	NTE376%	-	470pF 5% 2kV	227068	-
-	-	207878	NTE552	Q5003 (3)	-	208434	NTE376%	C4111	680pF 20% 1kV	190538	-
CR4705	-	176296	NTE519	-	-	215495	-	# C4112	.0056 5% 800V	201619	-
CR4709	-	164717	NTE552	Q6401, 02	-	179740	NTE2406	C4116	47pF 5% 50V NPO	143867	-
-	-	196062	NTE519	Q6403	-	179741	-	C4140	680pF 20% 1kV	190538	-
CR4710	-	139706	NTE177	Q6404, 05	-	179740	NTE2406	# C4141	470µF 20% 180V	200147	-
CR4712	-	209741	-	Q6406	-	179741	NTE2407	C4155	470pF 5% 50V N750	210893	-
CR4713	-	153672	NTE552	Q6407	-	179740	NTE2406	# C4401	.015 1.6kV	206007	-
-	-	207878	NTE519	Q6408	-	146847	NTE123AP	-	.0157 1.6kV	206008	-
CR4803	-	176296	NTE519	Q6409	-	179741	NTE2407	# C4402	.056 5% 400V	200149	-
CR4805	-	138974	NTE5069A	Q6410	-	146847	NTE123AP	# C4403	.5 5% 250V	200150	-
-	-	227919	-	Q6411, 12, 13	-	179741	NTE2407	# C4406	470pF 5% 1.5kV N1500	143242	-
CR4806	-	164717	NTE519	Q6414	-	179740	NTE2406	-	470pF 5% 2kV N1500	227068	-
# CR4901	-	157301	NTE177	Q6415, 16	-	179741	NTE2406	# C4407	.0047 10% 250V	190534	-
# CR4902	-	159429	NTE5019T1	Q6417 Thru	-	264017	NTE2407	# C4503	2200µF 10% 35V	200151	-
CR5003	-	174489	NTE177	Q6420	-	179740	NTE2406	# C4511	1.54uF 5% 250V	200152	-
-	-	139706	NTE177	Q6421	-	179741	NTE2407	-	.01 20% 1kV	137583	-
# CR5004, 05	-	174489	NTE177	Q6422, 23	-	179740	NTE2406	C4702, 04, 13	680pF 20% 1kV	190538	-
CR6401, 02, 03	-	164717	NTE519	Q6424	-	146847	NTE123AP	# C4716	.082 10% 250V	181404	-
CR8001 Thru	-	201133	-	Q6425	-	179740	NTE2406	C4801	10µF 20% 50V NP	227053	-
CR8004	-	215495	NTE519	Q8001, 02	-	179741	NTE2407	# C4905	1µF 20% 100V	220998	-
Q1201	-	179740	NTE2406	Q8003	-	179740	NTE2406	C5001	.001 3KV 10%	120696	-
Q1400	-	215496	-	Q8005	-	179741	NTE2407	-	560pF 5% 50V NPO	200139	-
Q1401A	-	179740	NTE2406	Q8006, 07	-	179740	NTE2406	C6402	33pF 5% 50V NPO	174408	-
Q1402	-	215495	-	Q8008, 09	-	146847	NTE123AP	C6404	47pF 5% 50V NPO	174409	-
Q1402A	-	179740	NTE2406	Q8012, 13	-	179740	NTE2406	C6406	10µF 20% 25V NP	146256	-
Q1403	-	143806	NTE519	Q8014	-	179741	NTE2407	C6407	100pF 5% 50V NPO	174412	-
Q1403A	-	179741	NTE2407	Q8015	-	179740	NTE2406	C6408	82pF 5% 50V NPO	176828	-
Q1404	-	215495	-	Q8016	-	179741	NTE2407	C6409	10pF 2% 50V NPO	174402	-
Q1404A	-	179740	NTE2406	Q8017	-	179740	NTE2406	C6417	470pF 10% 50V NPO	174416	-
Q1405	-	215495	-	SCR501	-	194320	-	C6420, 21	220pF 5% 50V NPO	178188	-
Q1405A	-	179741	NTE2407	# U1001	TA8680N	200137	NTE7010	C8007	680pF 5% 50V NPO	181845	-
Q1406	-	215495	-	U1401	-	161079	NTE4052B	C8008	8pF ±.5pF 50V NPO	181463	-
Q1406A	-	179741	NTE2407	-	-	218520	-	-	15pF 5% 50V NPO	174404	-
Q1407, 08	-	179741	NTE2407	U1402	LM324N	207827	NTE987	C8019	100pF 5% 50V NPO	193340	-
Q1409	-	179740	NTE2406	U1410	HCF4052BE	161079	NTE4052B	-	.01 10% 50V	174423	-
Q1410	-	179741	NTE2407	U1411	-	204292	-	C8022	47pF 5% 50V NPO	174409	-
Q1500	-	179741	NTE2407	U1501	-	176226	NTE1576	-	56pF 5% 50V NPO	190542	-
Q1503	-	179740	NTE2406	U1600	-	190484	-	-	33pF 5% 50V NPO	174408	-
Q1507	-	179741	NTE2406	U1601	TDA8444	204290	-	C8025	390pF 5% 50V NPO	204274	-
Q1550	-	179740	NTE2406	U1602	-	207828	-	C8030, 36	100pF 5% 50V NPO	174412	-
Q1551	-	192849	-	U1700	-	170731	NTE4052B	C8037, 38	100pF 5% 50V NPO	174412	-
Q1552	-	179740	NTE2406	U1703	-	161079	-	C8041	220pF 5% 50V NPO	178188	-
Q1601	-	179740	NTE2406	U1704, 05	LM324N	149018	NTE987	C8050	39pF 5% 50V NPO	181090	-
Q1702	-	179740	NTE2406	U1708	-	154027	NTE4016B	CF1201	Filter	195702	4.5MHz
Q1704, 05	-	179740	NTE2406	U1900	-	210911	-	CF2301	Filter	181125	4.5MHz
Q1901 Thru	-	179740	NTE2406	U2601	-	179729	-	# DF4500	Yoke	-	Horiz 1mH Vert 21mH
Q1904	-	146848	NTE2406	-	-						

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
J1	Jack	161073	External Speakers		680 5% 1/4W	175312	-	# R4720	10 5% 1/2W	830010	-
J1401	Jack	190514	Aux 1 Video In	R2710	100 2% 1/8W	181486	-	# R4801	1M 5% 1/8W	174361	-
J1402	Jack	190514	Aux 2 Video In	R2711	750 2% 1/8W	181056	-	R4802	2000 Width	200199	-
J1403	Jack	190514	Video Out		560 2% 1/8W	182822	-	R4805	10K E/W Pin Amp	189853	-
J1404	Jack	195705	S-Video	R2719	13.3K 1% 1/4W	173370	-	# R4809	390 5% 1/2W	175769	-
J1407	Jack	190514	Left Aux1 Audio In		15.4K 1% 1/4W	200175	-	R4812	10K 2% 1/8W	174364	-
J1408	Jack	203767	Right/Mono Aux1 Audio In	# R2721	27K 5% 1/2W	206037	-	# R4821	150 5% 1W	175784	-
J1409	Jack	203768	Left Aux2 Audio In	R2725	750 2% 1/10W	202914	-	# R4901	10K 5% 1/4W	175317	-
J1410	Jack	190512	Right/Mono Aux2 Audio In	R2730	1000 Contrast Preset	181109	-	# R4902	100 5% 1/4W	175325	-
J1411	Jack	203765	Left HI FI Audio Out	R2731	2400 5% 1/8W	181071	-	# R4903	34K 1% 1/4W	207881	-
J1412	Jack	203765	Audio Left Out		1200 2% 1/8W	190463	-		36.5K 1% 1/4W	207882	-
J1413	Jack	190515	Right HI FI Audio Out	R2732	1500 2% 1/8W	181482	-	# R4904	46.4K 1% 1/4W	204794	-
J1414	Jack	190515	Audio Right Out	R2733	620 2% 1/8W	181493	-	R4905	22K 2% 1/4W	175054	-
# K4201	Relay	190490	Degaussing	R2734	1000 2% 1/8W	190462	-	R4920	5100 2% 1/4W	175417	-
# KS5001	Socket	189986	CRT		680 2% 1/8W	178286	-	R4923	150K XRP	207883	-
# L1	Line Filter	-	-	R2735	100 2% 1/8W	181486	-	R6401	1000 2% 1/4W	175055	-
L2	Line Filter	-	-	R2736	910 2% 1/8W	205291	-	R6402	181079	-	
L1201	SIF	190504	-	R2737	1000 2% 1/8W	190462	-	R6403	18K 2% 1/8W	174366	-
L2301	68µH	195708	-	R2740	560 2% 1/8W	182822	-		27K 2% 1/8W	193061	-
L2302	2.2µH	197616	-	R2742	1500 2% 1/8W	181482	-	R6404	10K 2% 1/8W	174364	-
L2303	AFT	190506	-	R2801	1000 2% 1/8W	190462	-	R6407	4700 2% 1/8W	178287	-
L2304	PIF	190503	-	R2802	30K Chroma Filter	177366	-	R6408	15K 2% 1/8W	192835	-
L2305	2.2µH	197616	-	R2804	120K 2% 1/8W	180816	-		13K 2% 1/8W	178285	-
L2306	-	206035	-	R2813	22K 2% 1/8W	174367	-	R6417	1500 2% 1/8W	181482	-
L2307	12µH	210687	-	R2814	30K 2% 1/10W	200176	-		150 5% 1/8W	179379	-
L2601	18µH	223800	-	R2816	10K Tint Preset	181107	-	R6418	680 2% 1/8W	178286	-
L2602	39µH	195710	-		10K Tint Preset	189853	-		330 5% 1/8W	155497	-
L2603	10µH	161243	-	R2901, 02, 03	1000 2% 1/8W	190462	-	R6420	1800 2% 1/8W	181484	-
L2702	39µH	195710	-	R2910	220 2% 1/8W	181492	-	R6421	1500 2% 1/8W	181482	-
L2704	-	195750	-		200 2% 1/8W	178280	-	R6422	1000 2% 1/8W	190462	-
L2705	4.7µH	158726	-	R2913	4500 Red Bias	190533	-	R6423	750 2% 1/8W	181056	-
L2706	10µH	175409	-	R2914	220 2% 1/8W	181492	-	R6424	620 2% 1/8W	181493	-
L2801, 02, 03	22µH	195712	-		200 2% 1/8W	178280	-	R6425	680 2% 1/8W	178286	-
L2804	-	200161	-	R2917	4500 Blue Bias	190533	-	R6426	390 2% 1/8W	178284	-
L3101	10µH	175409	-	R2918	220 2% 1/8W	181492	-	R6443	4700 2% 1/8W	178287	-
# L3601	-	161243	-		200 2% 1/8W	178280	-	R6447	750 2% 1/8W	181056	-
L3602	-	207880	-	R2921	4500 Green Bias	190533	-	R6448	300 Luma	190525	-
L4101	2.2µH	190480	-	R2922	220 2% 1/8W	181492	-	R6449	5100 2% 1/8W	175418	-
# L4201	Degaussing	250050	-		100 2% 1/8W	181486	-	R6465	1000 2% 1/8W	190462	-
# L4401	-	196064	-	# R2924	10 10% 1/4W	829010	-	R6469	10K 2% 1/8W	174364	-
L4701	47µH	190729	-	R2926	100 Red/Blue Drive	190531	-		12K 5% 1/8W	174365	-
# L4702	10µH	175409	-	R2928	100 Green Drive	190531	-	R6470	3900 2% 1/8W	157377	-
# L4803	Pincushion	206391	-	R2935	220 2% 1/8W	181492	-	R6476	6200 2% 1/8W	181058	-
L5001	120µH	195750	-	R2938	200 2% 1/8W	178280	-	R6478	2700 2% 1/8W	181064	-
	220µH	195707	-	R2942, 43	470 2% 1/8W	182628	-	R6486	220K 2% 1/8W	174353	-
L5004, 05, 06	47µH	195713	-	R2944	560 2% 1/8W	182822	-	# R6487	10 2% 1/4W	829010	-
L6401, 02	22µH	195712	-	R2945	200 2% 1/8W	178280	-	R8008	1600 2% 1/8W	182824	-
L6403	120µH	195750	-	R2946	1000 2% 1/8W	190462	-	R8009	1500 2% 1/8W	181482	-
L6406	-	176622	-	# R2947	10 10% 1/4W	829010	-		1600 2% 1/8W	182824	-
L8001	330µH	196125	-	R3115, 17	10K 2% 1/8W	174364	-	R8020	100 5% 1/8W	176818	-
L8002	22µH	195712	-	R3120	560 2% 1/8W	182822	-		120 2% 1/8W	181485	-
L8003	47µH	195713	-	R3121, 36	10K 2% 1/8W	174364	-	R8021	330 2% 1/8W	181488	-
# P1	Line Cord	187802	AC, Polarized	R3138	22K 2% 1/8W	174367	-	R8027	1500 2% 1/8W	181482	-
# R3	33 5% 2W	196014	-	R3141	100 2% 1/8W	181486	-		1600 2% 1/8W	182824	-
# R4	39 5% 2W	175788	-	R3143	1000 2% 1/8W	190462	-	R8028	1600 2% 1/10W	197625	-
R1203	470 2% 1/8W	182628	-	R3305	10K 2% 1/8W	174364	-	R8031	1000 Luminance	181106	-
R1204	5000 WBA Level	181113	-	R3307	27K 2% 1/10W	205245	-	R8037	500 Chroma	181112	-
# R1402	430 5% 1/4W	829143	-	R3309	7500 2% 1/8W	200178	-	R8038	10K 2% 1/8W	174364	-
R1403	3000 2% 1/10W	194917	-	# R3310	47 5% 1/4W	175040	-	R8039	1500 2% 1/8W	181482	-
R1404	3000 2% 1/8W	190464	-	R3335	13K 2% 1/10W	205353	-	R8040	470 2% 1/10W	194926	-
# R1406	430 5% 1/4W	829143	-	R3342	91K 2% 1/10W	200180	-	R8069	130 2% 1/8W	205194	-
R1409	1000 2% 1/8W	190462	-	R3343	13K 2% 1/8W	178285	-	# R8071	100 2% 1/8W	181486	-
# R1410	430 5% 1/4W	829143	-	R3346	500 Sub-Bright	200181	-		27 5% 1W	210480	-
R1411	3000 2% 1/10W	194917	-	R3402	133K 1% 1/4W	195752	-	# R8072	33 5% 1W	180278	-
R1412	1100 2% 1/10W	202586	-	R3602	10K 2% 1/8W	174364	-		91 5% 1W	180173	-
R1413	330 2% 1/8W	181488	-	# R4001	1.8 10% 15W Wirewound	200444	-		82 5% 1W	181232	-
R1414	2000 2% 1/4W	175321	-		2.7 10% 15W Wirewound	190487	-	R8087	4700 2% 1/8W	178278	-
R1417	10K 2% 1/8W	174364	-	# R4002	2.7M 10% 1/2W	217662	-	# RT4201	5.9 Cold PTC	207768	-
R1419	910 2% 1/10W	205291	-	# R4003	33K 5% 2W	200182	-		Thermistor	181161	-
R1420	1300 2% 1/8W	182823	-	R4102	5100 2% 1/4W	175417	-	RT4501	Speaker	183159	2 1/4" X 5", 8 Ohms, 10W
R1421	510 2% 1/10W	202585	-	# R4103	51K 5% 1/4W	175315	-	SP1900, 03	Filter	200203	SAW
R1422	1100 2% 1/10W	202586	-	R4104	500 2% 1/4W	175367	-	SW1	Switch	211982	External Speakers
R1425	120K 2% 1/8W	180816	-	R4108	910 2% 1/4W	203097	-	SW3401	Switch	181724	Audio
R1426	470 2% 1/8W	182628	-	R4109	1300 2% 1/4W	203745	-		Switch	207842	Audio
R1427	1500 2% 1/8W	181482	-		1000 5% 1/4W	175055	-	SW3403	Switch	181724	Channel Up
R1428	330 2% 1/8W	181488	-	# R4110	.18 5% 2W Wirewound	200183	-		Switch	207842	Channel Up
# R1429A	2200 5% 1/2W	176632	-	R4113	300 Standby	190525	-	SW3411	Switch	181724	Video
R1430	2700 2% 1/4W	176648	-	R4114	45.3K 1% 1/4W	176506	-		Switch	207842	Video
# R1431A	2200 5% 1/2W	176632	-	R4115	3240 1% 1/4W	200184	-	SW3413	Switch	181724	Volume Down
# R1432	10 10% 1/4W	829010	-	# R4116 (1)	500 B+ Reg	-	-		Switch	207842	Volume Down
# R1452, 54	1000 2% 1/4W	108865	-	R4119	330 5% 7W Wirewound	200185	-	SW3421	Switch	181724	Set Up
# R1456, 58	1000 2% 1/4W	108865	-	# R4120	10 2% 1/4W	829010	-		Switch	207842	Set Up
# R1463, 64, 65	47 5% 1/4W	829047	-	# R4126	6.8 5% 3W Wirewound	206016	-	SW3423	Switch	181724	Volume Up
# R1488, 94	2200 2% 1/4W	176632	-	R4139, 45	10K 2% 1/8W	174364	-		Switch	207842	Volume Up
R1604	20K Stereo SAP Filter	191389	-	R4148	53.6K 1% 1/4W	200189	-	SW3431	Switch	181724	Channel Down
R1606	50K Base Band Filter	190526	-	# R4149	1.2 5% 1W	831A12	-		Switch	207842	Channel Down
R1609	100K LF Separator	181108	-	R4152	470 2% 1/8W	182628	-	SW3433	Switch	207842	Power
R1611	250K HF Separator	195951	-	R4306	15K Horizontal Phase	200417	-	# T4101	Regulator Feedback	200204	-
R1616	50K Stereo VCO	190526	-	R4308	120 2% 1/8W	181485	-	# T4102	Chopper	207884	-
# R1655	3.3 5% 1/2W	175772	-	# R4312	47 5% 1/4W	175040	-	# T4301	Horizontal Drive	205196	-
# R1656	10 10% 1/4W	829010	-	# R4313	100 5% 1/2W	176796	-	# T4401 (2)	Horizontal Output	200207	-
R1718	43K 2% 1/10W	205363	-	# R4314	39 5% 1/2W	200192	-	# T4401 (3)	Horizontal Output	202016	-
R1743	100 2% 1/4W	175325	-		22 5% 1/2W	175374	-	# V101	CRT	A68AEG151	A89AEJ15X01
R1903	1600 2% 1/2W	175311	-	R4326	3300 2% 1/10W	195938	-	# V101	CRT	A68AER142	A68AER14X02
# R1906, 07	4.7 5% 1/4W	147960	-	R4327	15K 2% 1/4W	175360	-	# V101	CRT	A68AER352	A68AER35X02
R1936	1600 2% 1/2W	175311	-	R4328	5100 2% 1/8W	175418	-	# V101	CRT	A68AEG101	A68AEG10X01
R1941, 44, 46	10K 2% 1/10W	195937	-	# R4401	220 5% 1/2W	176651	-		Crystal	Y2801	3.58MHz
R1947	12K 2% 1/10W	205352	-	# R4402	10 5% 1/2W	181098	-		Crystal	Y3101	8MHz
R1948	2400 2% 1/10W	205342	-	R4509, 10	10K 2% 1/8W	174364	-		Crystal	Y4301	508.3kHz
# R2301	100 5% 1/4W	175325	-	R4511	8200 2% 1/8W	181065	-		Crystal	Y8001	14.318MHz
R2302	1500 2% 1/8W	181482	-		120 2% 1/8W	181485	-		Adapter		75 To 300 Ohm
R2303	390 2% 1/8W	178284	-	# R4518	470 5% 1/4W	829147	-		Magnet		Beam Bender
R2306	100 2% 1/8W	181486	-	# R4							