

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

Momentarily short a 1000 ohms resistor across the base of Q4902 and ground. The receiver should lose raster and sound. If the receiver does not lose raster and sound, the shutdown circuit should be repaired. To resume normal operation, remove AC power for approximately 30 seconds and then turn the receiver on. Enter the Service Mode and reset the error code parameters for X-Ray Shutdown to 00.

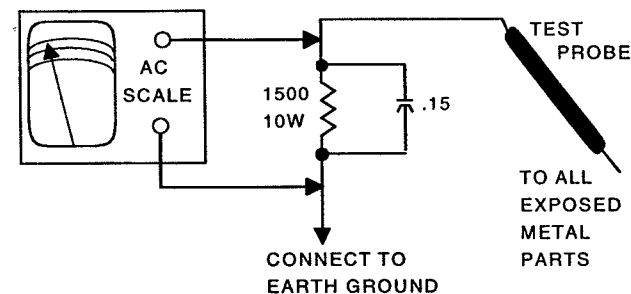
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



PHOTOFACT® Technical Service Data

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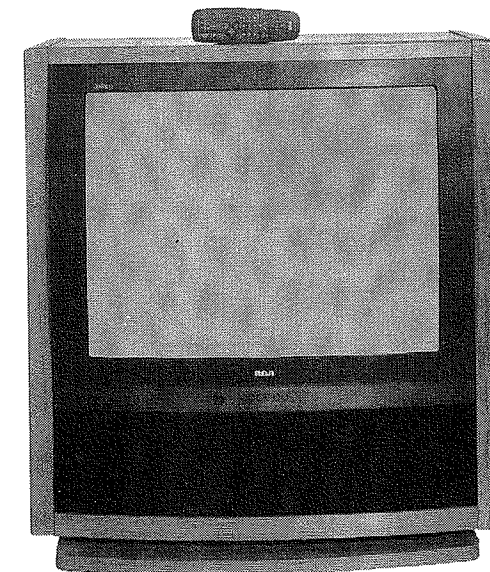
MODEL F32730SBFM1 (CHASSIS CTC179CM)

RCA

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RCA Model F32730SBFM1 (Chassis CTC179CM)



Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
F32730SBJX1	CTC179CM
F35755MBFM2	CTC179CK
F35755MBJX2	CTC179CK
G35831ATLM1	CTC179CK

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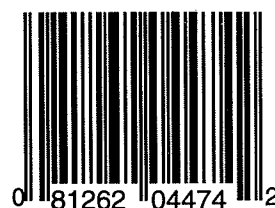
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ERROR CODES CHART

Error Code	Error	Condition Indicated
0	No error code	-
17	Bus Fault Detected by U3102	U3102 standby IIC clock or data held low.
18	DC Detect	Power supply shutdown.
22	Run Supply Momentary Dropout	Run supply momentary dropped and recovered.
23	Run Supply Shutdown	Run supply shutdown.
24	System Stack Overflow	Software error.
25	PIP Module Error	PIP fails to acknowledge.
26	User Stack Overflow	Software error.
28	Watchdog Timeout	Software error.
30	XRP Shutdown	X - ray overvoltage detected by U2001.
72	Bus Expander Fault U2502	U2502 fails to acknowledge.
73	Bus Expander Fault U2502	U2502 fails to acknowledge.
128	Stereo decoder U1600	Stereo decoder U1600 fails to acknowledge.
136	TVB Fault U1503	Tone/ Volume/ Balance U1503 fails to acknowledge.
138	TVB Fault U1504	Tone/ Volume/ Balance U1504 fails to acknowledge.
150	Video matrix switch U6501	Video matrix switch U6501 fails to acknowledge.
154	Audio matrix switch U1402	Audio matrix switch U1402 fails to acknowledge.
186	T2 Chip U2001	U2001 fails to acknowledge.
194	Tuner PLL U501	Tuner U501 PLL IC fails to acknowledge.

MISCELLANEOUS ADJUSTMENTS

B+ CHECK

NOTE : R4113 is factory sealed. DO NOT ADJUST. Refer to replacement parts for kit information.

Connect a digital DC voltmeter to pin 8 of T4401 and use pin 3 as ground point. Set brightness and picture to minimum. With AC line voltage set to 120VAC, the B+ should read 135V ±.1V.

HIGH VOLTAGE CHECK

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

BLANKING RESERVE

Tune in a color bar signal, short pin 49 of U2001 to ground to eliminate color. Enter service mode, and select parameters (1 13), (1 14), and (1 15). Adjust the value of each parameter to maximum. Select parameters (1 16), (1 17), and (1 18). Adjust the value of each parameter to minimum.

Connect an oscilloscope to pin 8 of the CRT socket. Adjust the value of parameter (1 16) to obtain 5.0V ± 2.0V between the sync tip and the peak point of the red output waveform. If that can not be attained by adjusting value of parameter (1 16), then decrement the value of parameter (1 13) by one step and repeat the adjustment.

Connect an oscilloscope to pin 6 of the CRT socket. Adjust the value of parameter (1 17) to obtain 5.0V ± 2.0V between the sync tip and the peak point of the green output waveform. If that can not be attained by adjusting the value of parameter (1 17), then decrement the value of parameter (1 14) by one step, and repeat the adjustment.

Connect an oscilloscope to pin 11 of the CRT socket. Adjust the value of parameter (1 18) to obtain 5.0V ± 2.0V between the sync tip and the peak point of the blue output waveform. If that can not be attained by adjusting the value of parameter (1 18), then decrement the value of parameter (1 15) by one step, and repeat the adjustment.

COLOR TEMPERATURE

Tune in a color bar signal, short pin 49 of U2001 to ground to eliminate color. Enter service mode, and select parameters (0 14), (0 15), and (0 16). Adjust the value of each parameter to obtain a low-level white balance on the screen. Notice that the far right bar on the screen must remain black.

In case one or more of these bias parameters can not be set, increment the value of the corresponding parameter (0 20), (0 21), or (0 22) by one step at a time. These parameters have a very large effect on the display, adjust only if absolutely necessary.

Select parameters (0 17), (0 18), and (0 19). Adjust the value of each parameter to obtain a high-level white balnce on the screen. Notice that the far left bar on the screen must remain white.

Tune in a crosshatch signal, select parameter (0 14), and check for stable display. If the display is blinking or blanking, adjust the screen control. There is a narrow range of the screen control in which a stable display will appear. Repeat color temperature adjustment if necessary. Check for best black and white picture. Check tracking at low and high brightness.

STEREO ADJUSTMENTS

All adjustments were made using a MTS TV / stereo generator. Set the customer controls to normal listening levels and select stereo mode.

STEREO VCO

Unsolder the end of R1609 connected to JW244, disconnect the RF source from the antenna terminal. Enter service mode, and select parameter (1 19). Connect a frequency counter to pin 28 of U1600. Adjust the value to obtain a reading of 62.936 kHz. Resolder R1609 for normal operation.

SAP VCO

Remove power, and unsolder the end of R1609 connected to JW244. Apply 1kHz audio frequency and L-R modulating signal with SAP on. Connect an audio generator (78.67 kHz sine) to the loose end of R1609 and set signal level to 255 mVrms. Apply AC power, enter service mode, and select parameter (1 20), and set value to minimum. Increment the value slowly until an astrisk (*) appears next to the value, record this value as V1. Reset the value of parameter (1 20) to maximum. Decrement the value slowly until an astrisk (*) appears next to the value, record this value as V2. Set the value of parameter (1 20) to half the value of (V2 - V1). Resolder R1609 for normal operation.

STEREO LOWPASS FILTER

Remove power and unsolder the end of R1609 connected to JW244. Apply 1kHz audio frequency and L+R modulating signal with pilot on. Connect an audio generator (9.4 kHz sine) to the loose end of R1609 and set signal level to 1.04Vrms. Apply AC power, enter service mode, and select parameter (1 21), and set value to minimum. Increment the value slowly until an astrisk (*) appears next to the value, record this value as V1. Reset the value of parameter (1 21) to maximum. Decrement the value slowly until an astrisk (*) appears next to the value, record this value as V2. Set the value of parameter (1 21) to half the value of (V2 - V1). Resolder R1609 for normal operation.

SAP FILTER

Remove power and unsolder the end of R1609 connected to JW244. Apply 1kHz audio frequency and L-R modulating signal with SAP on. Connect an audio generator (88 kHz sine) to the loose end of R1609 and set signal level to 206mVrms. Apply AC power, enter service mode, and select parameter (1 22), and set value to minimum. Increment the value slowly until an astrisk (*) appears next to the value, record this value as V1. Reset the value of parameter (1 22) to maximum. Decrement the value slowly until an astrisk (*) appears next to the value, record this value as V2. Set the value of parameter (1 22) to half the value of (V2 - V1). Resolder R1609 for normal operation.

SEPARATION

Select pilot, 300Hz audio frequency, and left modulating signal. Connect an oscilloscope to pin 28 of U1600, enter service mode, and select parameter (1 23), set value for minimum amplitude. Change audio frequency to 3kHz, and select parameter (1 24). Set value for minimum amplitude. Repeat process until no further decrease in the waveform amplitude is obtained.

Do not use any modulation frequency other than specfied. If the specified frequency is not available set the value of parameter (1 23) to 31 and set the value of parameter (1 24) to 35.

MISCELLANEOUS ADJUSTMENTS continued

SERVICE MENU

The following adjustment procedures are accessed thru a service menu. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P0, and on the right the value of that parameter V0. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. To access and change any of the adjustments, the proper parameter pass number must be entered. This information is listed at the beginning of the alignment. When these parameters are modified, the T-Chip U2001 and the corresponding EEPROM U3102, and U8302 are updated. All service adjustments are bus controlled, except focus and screen. Parameters are grouped in 4 groups. Group 0 is Instrument Parameters; Group 1 is Chassis Parameters; Group 2 is Tuner Parameters; and Group 3 is PIP Tuner Parameters. A security code must be entered to access the parameters of each group.

SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0 0	Pass number for service adjustment parameters for group 0.	00	Must set to 76	May not advance until value is set to 76.
0 1	Error Code 1	00	00 - 255	Displays the first error detected. Set to 00 before exiting. See Error Codes Chart.
0 2	Error Code 2	00	00 - 255	Displays the second error detected. Set to 00 before exiting. See Error Codes Chart.
0 3	Error Code 3	00	00 - 255	Displays the last error detected. Set to 00 before exiting. See Error Codes Chart.
0 4	Horizontal Phase	05	00 - 15	Set value to 05.
0 5	Vertical Centering	32	00 - 63	Adjust to center vertically.
0 6	Horizontal Size	20	00 - 31	Adjust for slight horizontal overscan.
0 7	Pincushion Amplitude	08	00 - 15	Set value to 08.
0 8	Pincushion Tilt	08	00 - 15	Set value to 08.
0 9	Vertical Size	110	00 - 127	Adjust for slight vertical overscan.
0 10	Vertical Linearity	08	00 - 15	Adjust to center vertically.
0 11	Vertical S-Correction	00	00 - 15	Set value to 00.
0 12	Bottom Corner Pin Correct	03	00 - 7	Set value to 03.
0 13	Top Corner Pin Correction	03	00 - 7	Set value to 03.
0 14	Red Bias	27	00 - 127	Adjust for proper low-level white balance see color temperature adjustment.
0 15	Green Bias	20	00 - 127	Adjust for proper low-level white balance see color temperature adjustment.
0 16	Blue Bias	37	00 - 127	Adjust for proper low-level white balance see color temperature adjustment.
0 17	Red Drive	32	00 - 63	Adjust for proper high-level white balance see color temperature adjustment.
0 18	Green Drive	27	00 - 63	Adjust for proper high-level white balance see color temperature adjustment.
0 19	Blue Drive	25	00 - 63	Adjust for proper high-level white balance see color temperature adjustment.
0 20	Red Sub Bias	00	00 - 3	See color temperature adjustment.
0 21	Green Sub Bias	00	00 - 3	See color temperature adjustment.
0 22	Blue Sub Bias	00	00 - 3	See color temperature adjustment.
1 0	Pass number for service adjustment parameters for group 1.	00	Must set to 77	May not advance until value is set to 77.
1 1	IF VCO Free Run	87	00 - 127	Disconnect RF source, short +side of C2309 to ground. Set the generator for 45.75MHz marker, 450mVrms. Adjust for 3.8V at pin12 of U2001.
1 2	4.5MHz Trap	07	00 - 7	Set value to 07.
1 3	IF APC Offset	16	00 - 31	Short pin 11 of U2001 to ground, adjust for 3.8V at pin 14 of U2001.
1 4	Video Level	05	00 - 7	Short pin 49 of U2001 to ground, adjust for a waveform of 1.6V ±.15Vp-p at pin 56 of U2001.
1 5	FM Level	19	00 - 31	Apply 1kHz, L+R signal. Adjust for a 333mVp-p waveform at pin 5 of U2001 (carrier portion is not included).
1 6	RF AGC Delay	30	00 - 63	Set to the value when snow disappears from picture.
1 7	D2PIP Brightness	19	00 - 31	Adjust so that the brightness of the PIP picture matches the brightness of the main picture.
1 8	D2PIP Contrast	50	00 - 63	Adjust so that the brightness of the PIP picture matches the brightness of the main picture.
1 9	D2PIP Chroma Level	67	00 - 127	Adjust so that color level of the PIP picture matches color level of the main picture.
1 10	D2PIP Tint	60	00 - 127	Adjust so that the tint of the PIP picture matches the tint of the main picture.
1 11	Factory Tint	65	00 - 127	Set value to 65.
1 12	Factory Contrast	55	00 - 127	Set value to 55.
1 13	Red Blanking (Sub-Bias)	00	00 - 3	See Blanking Reserve adjustment.
1 14	Green Blanking (Sub-Bias)	00	00 - 3	See Blanking Reserve adjustment.
1 15	Blue Blanking (Sub-Bias)	00	00 - 3	See Blanking Reserve adjustment.
1 16	Red Blanking (Bias)	00	00 - 127	See Blanking Reserve adjustment.
1 17	Green Blanking (Bias)	00	00 - 127	See Blanking Reserve adjustment.
1 18	Blue Blanking (Bias)	00	00 - 127	See Blanking Reserve adjustment.
1 19	Stereo VCO	31	00 - 63	See Stereo Adjustments.
1 20	SAP VCO	07	00 - 15	See Stereo Adjustments.
1 21	Stereo Lowpass Filter	32	00 - 63	See Stereo Adjustments.
1 22	SAP Filter	07	00 - 15	See Stereo Adjustments.
1 23	Wideband DBX	31	00 - 63	See Stereo Adjustments.
1 24	Spectral DBX	35	00 - 63	See Stereo Adjustments.

ELECTRONIC MAIN TUNER ALIGNMENT

Use tuner alignment generator, RCA stock no. TAG001, and a VCR for signal source. Monitor IF AGC at pin 11 of U2001, and adjust for minimum voltage at parameters 59 and 58. The entire Electronic Tuner Alignment procedure, once started, must be completed in its entirety.

Parameter No.	Parameter Name	Value Range	On Set Value
2 00	Pass number for Main tuner alignment parameters	Must set to 78	00
2 01	Ch. 2 secondary	00 - 62	25
2 02	Ch. 2 single	00 - 62	20
2 03	Ch. 2 primary	00 - 62	17
2 04	Ch. 3 secondary	00 - 62	26
2 05	Ch. 3 single	00 - 62	27
2 06	Ch. 3 primary	00 - 62	25
2 07	Ch. 6 secondary	00 - 62	49
2 08	Ch. 6 single	00 - 62	37
2 09	Ch. 6 primary	00 - 62	52
2 10	Ch. 99 secondary	00 - 62	49
2 11	Ch. 99 single	00 - 62	43
2 12	Ch. 99 primary	00 - 62	37
2 13	Ch. 17 secondary	00 - 62	57
2 14	Ch. 17 single	00 - 62	56
2 15	Ch. 17 primary	00 - 62	41
2 16	Ch. 18 secondary	00 - 62	30
2 17	Ch. 18 single	00 - 62	27
2 18	Ch. 18 primary	00 - 62	25
2 19	Ch. 13 secondary	00 - 62	49
2 20	Ch. 13 single	00 - 62	40
2 21	Ch. 13 primary	00 - 62	45
2 22	Ch. 29 secondary	00 - 62	35
2 23	Ch. 29 single	00 - 62	30
2 24	Ch. 29 primary	00 - 62	37
2 25	Ch. 41 secondary	00 - 62	42
2 26	Ch. 41 single	00 - 62	47
2 27	Ch. 41 primary	00 - 62	46
2 28	Ch. 47 secondary	00 - 62	49
2 29	Ch. 47 single	00 - 62	50
2 30	Ch. 47 primary	00 - 62	55
2 31	Ch. 50 secondary	00 - 62	49
2 32	Ch. 50 single	00 - 62	37
2 33	Ch. 50 primary	00 - 62	17
2 34	Ch. 51 secondary	00 - 62	25
2 35	Ch. 51 single	00 - 62	20
2 36	Ch. 51 primary	00 - 62	17
2 37	Ch. 57 secondary	00 - 62	49
2 38	Ch. 57 single	00 - 62	37
2 39	Ch. 57 primary	00 - 62	25
2 40	Ch. 68 secondary	00 - 62	49
2 41	Ch. 68 single	00 - 62	20
2 42	Ch. 68 primary	00 - 62	25
2 43	Ch. 76 secondary	00 - 62	25
2 44	Ch. 76 single	00 - 62	20
2 45	Ch. 76 primary	00 - 62	17
2 46	Ch. 93 secondary	00 - 62	49
2 47	Ch. 93 single	00 - 62	37
2 48	Ch. 93 primary	00 - 62	25
2 49	Ch. 110 secondary	00 - 62	49
2 50	Ch. 110 single	00 - 62	20
2 51	Ch. 110 primary	00 - 62	25
2 52	Ch. 120 secondary	00 - 62	49
2 53	Ch. 120 single	00 - 62	20
2 54	Ch. 120 primary	00 - 62	25
2 55	Ch. 125 secondary	00 - 62	25
2 56	Ch. 125 single	00 - 62	20
2 57	Ch. 125 primary	00 - 62	17
2 58	Main IF Filter 1	00 - 62	49
2 59	Main IF Filter 2	00 - 62	37

ELECTRONIC PIP TUNER ALIGNMENT

Monitor IF AGC at pin 4 of U8101, and adjust for minimum voltage at parameters 58, and 59. The entire Electronic Tuner Alignment procedure, once started, must be completed in its entirety.

Parameter No.	Parameter Name	Value Range	On Set Value
3 00	Pass number for PIP tuner alignment parameters	Must set to 79	00
3 01	Ch. 2 single	00 - 62	25
3 02	Ch. 2 secondary	00 - 62	20
3 03	Ch. 2 primary	00 - 62	17
3 04	Ch. 3 single	00 - 62	49
3 05	Ch. 3 secondary	00 - 62	37
3 06	Ch. 3 primary	00 - 62	25
3 07	Ch. 6 single	00 - 62	49
3 08	Ch. 6 secondary	00 - 62	20
3 09	Ch. 6 primary	00 - 62	17
3 10	Ch. 99 single	00 - 62	49
3 11	Ch. 99 secondary	00 - 62	37
3 12	Ch. 99 primary	00 - 62	17
3 13	Ch. 17single	00 - 62	25
3 14	Ch. 17 secondary	00 - 62	20
3 15	Ch. 17 primary	00 - 62	17
3 16	Ch. 18 single	00 - 62	49
3 17	Ch. 18 secondary	00 - 62	37
3 18	Ch. 18 primary	00 - 62	25
3 19	Ch. 13 single	00 - 62	49
3 20	Ch. 13 secondary	00 - 62	20
3 21	Ch. 13 primary	00 - 62	25
3 22	Ch. 29 single	00 - 62	25
3 23	Ch. 29 secondary	00 - 62	20
3 24	Ch. 29 primary	00 - 62	17
3 25	Ch. 41 single	00 - 62	49
3 26	Ch. 41 secondary	00 - 62	37
3 27	Ch. 41 primary	00 - 62	25
3 28	Ch. 47 single	00 - 62	49
3 29	Ch. 47 secondary	00 - 62	20
3 30	Ch. 47 primary	00 - 62	25
3 31	Ch. 50 single	00 - 62	49
3 32	Ch. 50 secondary	00 - 62	37
3 33	Ch. 50 primary	00 - 62	17
3 34	Ch. 51 single	00 - 62	25
3 35	Ch. 51 secondary	00 - 62	20
3 36	Ch. 51 primary	00 - 62	17
3 37	Ch. 57 single	00 - 62	49
3 38	Ch. 57 secondary	00 - 62	37
3 39	Ch. 57 primary	00 - 62	25
3 40	Ch. 68 single	00 - 62	49
3 41	Ch. 68 secondary	00 - 62	20
3 42	Ch. 68 primary	00 - 62	25
3 43	Ch. 76 single	00 - 62	25
3 44	Ch. 76 secondary	00 - 62	20
3 45	Ch. 76 primary	00 - 62	17
3 46	Ch. 93 single	00 - 62	49
3 47	Ch. 93 secondary	00 - 62	37
3 48	Ch. 93 primary	00 - 62	25
3 49	Ch. 110 single	00 - 62	49
3 50	Ch. 110 secondary	00 - 62	20
3 51	Ch. 110 primary	00 - 62	25
3 52	Ch. 120 single	00 - 62	49
3 53	Ch. 120 secondary	00 - 62	20
3 54	Ch. 120 primary	00 - 62	25
3 55	Ch. 125 single	00 - 62	25
3 56	Ch. 125 secondary	00 - 62	20
3 57	Ch. 125 primary	00 - 62	17
3 58	PIP IF Filter 1	00 - 62	49
3 59	PIP IF Filter 2	00 - 62	37

MISCELLANEOUS ADJUSTMENTS continued

MAIN TUNER ALIGNMENT (GROUP 2)

The tuner coil alignment is preset at the time of manufacture and should require no further adjustment. The following recommended procedure should be performed only in event a complete tuner alignment is necessary, which is unlikely. Use plastic or wooden tool to adjust coils. This procedure is performed with top tuner cover removed and bottom tuner cover in place and soldered.

IF Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001, and tune in a color bar signal on main tuner. Connect DC voltmeter to pin 11 of U2001. Connect ground to tuner shield.
- 2. Select parameter (2 59), and adjust value to have minimum voltage at pin 11 of U2001.
- 3. Select parameter (2 58), and adjust value to have minimum voltage at pin 11 of U2001.
- 4. Repeat steps 2 and 3 until no reduction in voltage reading at pin 11 of U2001 can be achieved.

Band 2 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Set the tuner alignment generator for channel 50 output and tune to receive channel 50 on main tuner.
- 3. Adjust L703 for 4.9V ±.1V.
- 4. Connect voltmeter across C2309.
- 5. Select parameter (2 31) and record the value. Adjust parameter (2 31) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L104 and repeat this step. If the null voltage appears, set parameter (2 31) to recorded value and continue to the next step.
- 6. Select parameter (2 32) and record the value. Adjust parameter (2 32) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L109 and repeat this step. If the null voltage appears, set parameter (2 32) to recorded value and continue to the next step.
- 7. Select parameter (2 33) and record the value. Adjust parameter (2 33) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L107 and repeat this step. If the null voltage appears, set parameter (2 33) to recorded value.

Band 1 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Set the tuner alignment generator for channel 17 output and tune to receive channel 17 on main tuner.
- 3. Adjust L704 for 4.6V ±.1V.
- 4. Connect voltmeter across C2309.
- 5. Select parameter (2 14) and record the value. Adjust parameter (2 14) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L105 and repeat this step. If the null voltage appears, set parameter (2 14) to recorded value and continue to the next step.

- 6. Select parameter (2 13) and record the value. Adjust parameter (2 13) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L111 and repeat this step. If the null voltage appears, set parameter (2 13) to recorded value and continue to the next step.
- 7. Select parameter (2 15) and record the value. Adjust parameter (2 15) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L108 and repeat this step. If the null voltage appears, set parameter (2 15) to recorded value.

Band 3 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield..
- 2. Set the tuner alignment generator for channel 125 output and tune to receive channel 125 on main tuner.
- 3. Adjust L701 for 4.8V ±.1V.
- 4. Connect voltmeter across C2309.
- 5. Select parameter (2 56) and record the value. Adjust parameter (2 56) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L302 and repeat this step. If the null voltage appears, set parameter (2 56) to recorded value and continue to the next step.
- 6. Select parameter (2 55) and record the value. Adjust parameter (2 55) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L305 and repeat this step. If the null voltage appears, set parameter (2 55) to recorded value and continue to the next step.
- 7. Select parameter (2 57) and record the value. Adjust parameter (2 57) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L304 and repeat this step. If the null voltage appears, set parameter (2 57) to recorded value.

RF AGC Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Connect voltmeter across C2309.
- 3. Set the tuner alignment generator for channel 2 output and tune to receive channel 2 on main tuner.
- 4. Select parameter (2 1) and adjust value to have minimum DC voltage.
- 5. Select parameter (2 2) and adjust value to have minimum DC voltage.
- 6. Select parameter (2 3) and adjust value to have minimum DC voltage.
- 7. The adjustments for each channel must be repeated to assure correct alignment.
- 8. Repeat the process with parameters (2 4) thru (2 57), and repeat the adjustments for each channel must be repeated to assure correct alignment.

PIP TUNER ALIGNMENT (GROUP 3)

The tuner coil alignment is preset at the time of manufacture and should require no further adjustment. The following recommended procedure should be performed only in event a complete tuner alignment is necessary, which is unlikely. Use plastic or wooden tool to adjust coils. This procedure is performed with top tuner cover removed and bottom tuner cover in place and soldered.

IF Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001, and tune in a color bar signal on PIP tuner. Connect DC voltmeter to pin 4 of U8101. Connect ground to tuner shield.
- 2. Select parameter (3 59) PIP IF Filter 2 and adjust value to have minimum voltage at pin 4 of U8101.
- 3. Select parameter (3 58) PIP IF Filter 1 and adjust value to have minimum voltage at pin 4 of U8101.
- 4. Repeat steps 2 and 3 until no reduction in voltage reading at pin 4 of U8101 can be achieved.

Band 2 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Set the tuner alignment generator for channel 50 output and tune to receive channel 50 on PIP tuner.
- 3. Adjust L703 for 4.9V ±.1V.
- 4. Connect voltmeter across C8117.
- 5. Select parameter (3 31) and record the value. Adjust parameter (3 31) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L104 and repeat this step. If the null voltage appears, set parameter (3 31) to recorded value and continue to the next step.
- 6. Select parameter (3 32) and record the value. Adjust parameter (3 32) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L109 and repeat this step. If the null voltage appears, set parameter (3 32) to recorded value and continue to the next step.
- 7. Select parameter (3 33) and record the value. Adjust parameter (3 33) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L107 and repeat this step. If the null voltage appears, set parameter (3 33) to recorded value.

Band 1 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Set the tuner alignment generator for channel 17 output and tune to receive channel 17 on PIP tuner.
- 3. Adjust L704 for 4.6V ±.1V.
- 4. Connect voltmeter across C8117.
- 5. Select parameter (3 13) and record the value. Adjust parameter (3 13) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L105 and repeat this step. If the null voltage appears, set parameter (3 13) to recorded value and continue to the next step.

- 6. Select parameter (3 14) and record the value. Adjust parameter (3 14) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L111 and repeat this step. If the null voltage appears, set parameter (3 14) to recorded value and continue to the next step.
- 7. Select parameter (3 15) and record the value. Adjust parameter (3 15) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L108 and repeat this step. If the null voltage appears, set parameter (3 15) to recorded value.

Band 3 Manual Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Set the tuner alignment generator for channel 125 output and tune to receive channel 125 on PIP tuner.
- 3. Adjust L701 for 4.8V ±.1V.
- 4. Connect voltmeter across C8117.
- 5. Select parameter (3 55) and record the value. Adjust parameter (3 55) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L302 and repeat this step. If the null voltage appears, set parameter (3 55) to recorded value and continue to the next step.
- 6. Select parameter (3 56) and record the value. Adjust parameter (3 56) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L305 and repeat this step. If the null voltage appears, set parameter (3 56) to recorded value and continue to the next step.
- 7. Select parameter (3 57) and record the value. Adjust parameter (3 57) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L304 and repeat this step. If the null voltage appears, set parameter (3 57) to recorded value.

RF AGC Alignment

- 1. Use tuner alignment generator, RCA stock no. TAG001. Connect DC voltmeter to the junction of R509 and R510. Connect ground to tuner shield.
- 2. Connect voltmeter across C8117.
- 3. Set the tuner alignment generator for channel 2 output and tune to receive channel 2 on PIP tuner.
- 4. Select parameter (3 1) and adjust value to have minimum DC voltage.
- 5. Select parameter (3 2) and adjust value to have minimum DC voltage.
- 6. Select parameter (3 3) and adjust value to have minimum DC voltage.
- 7. The adjustments for each channel must be repeated to assure correct alignment.
- 8. Repeat the process with parameters (3 4) thru (3 57) and repeat the adjustments for each channel must be repeated to assure correct alignment.

A

TELEVISION SCHEMATIC

B

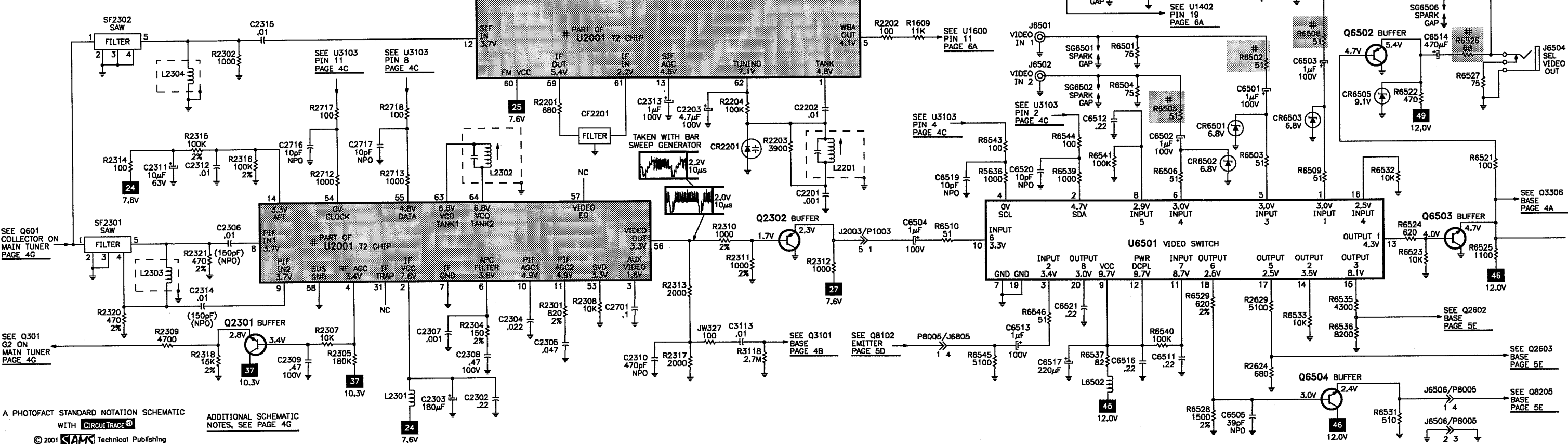
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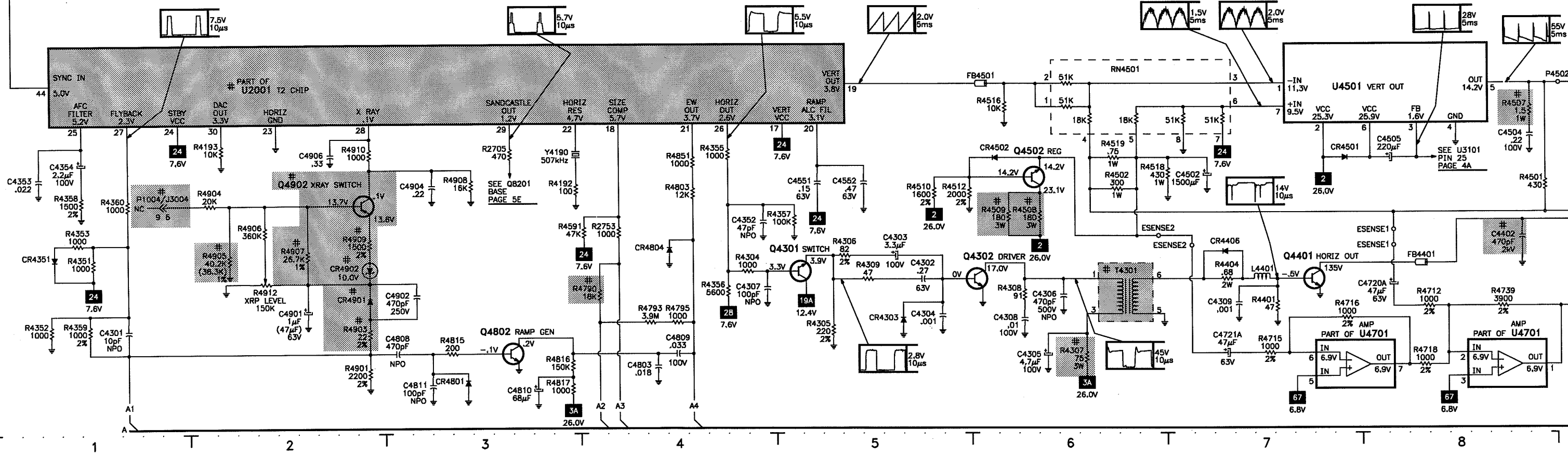
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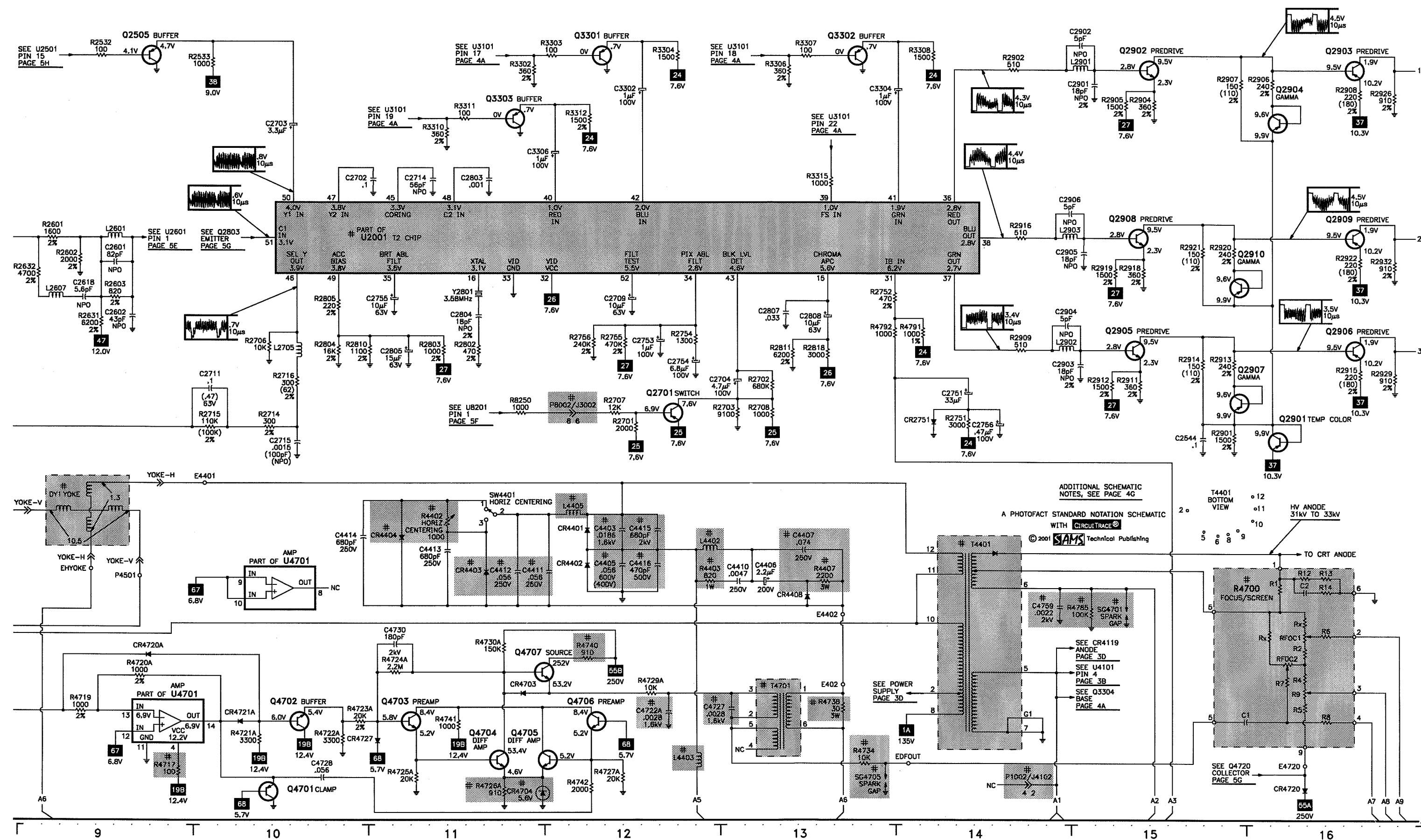
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E

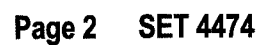


A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE[®] ADDITIONAL SCHEMATIC NOTES, SEE PAGE 4G

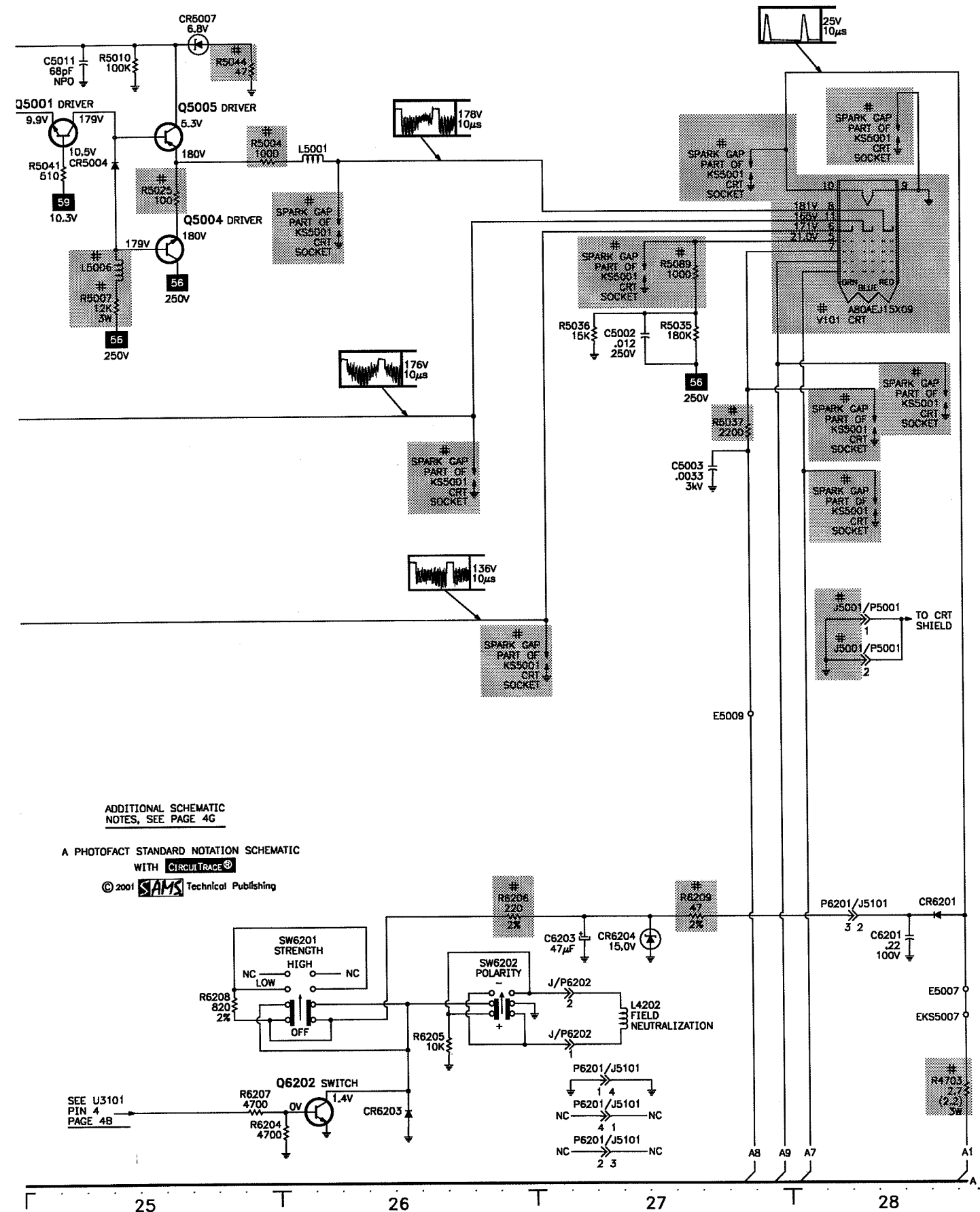




F



G TELEVISION SCHEMATIC continued



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 4G

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SEE U3101
PIN 4
PAGE 4B

TEST EQUIPMENT

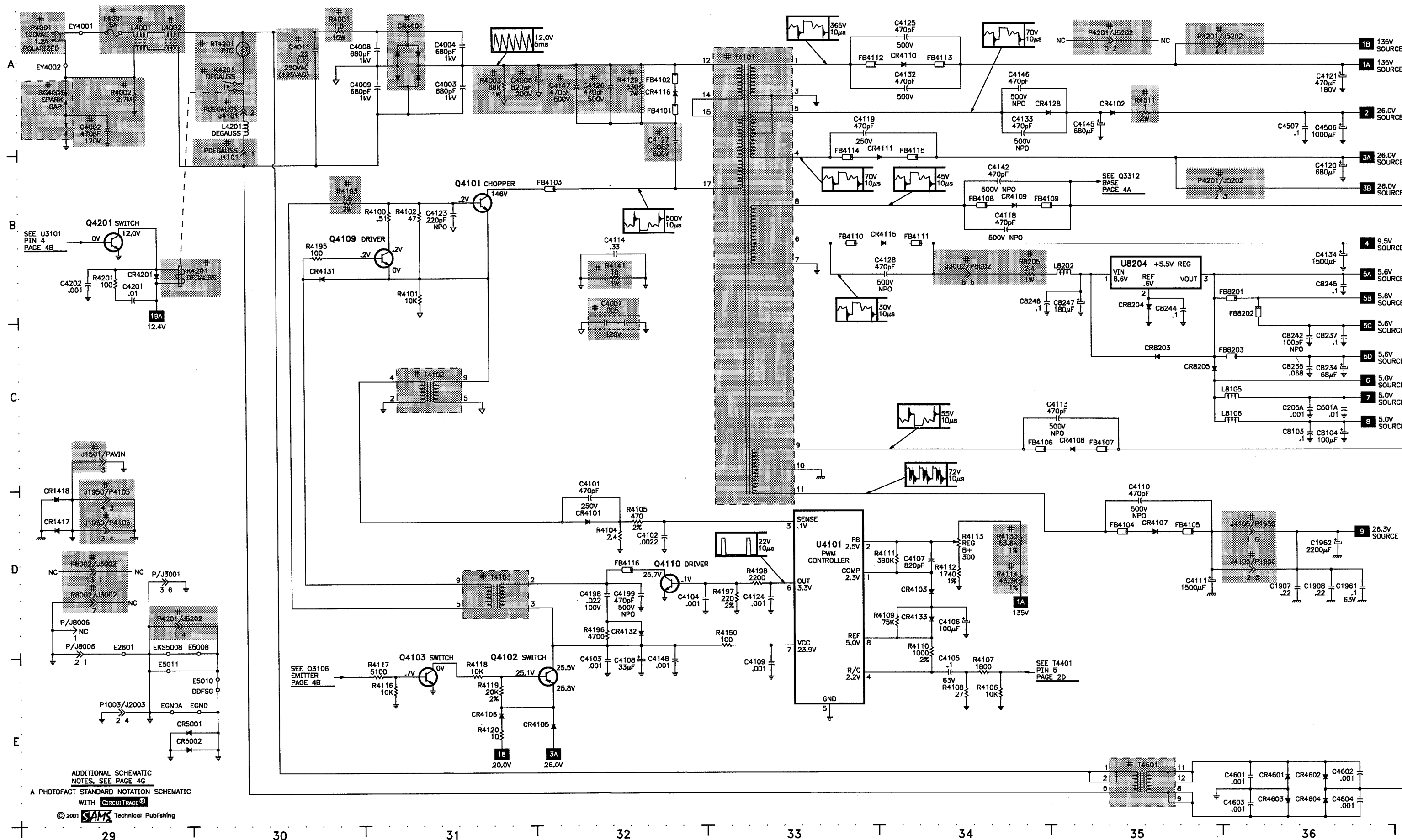
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

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

A

B

POWER SUPPLY SCHEMATIC



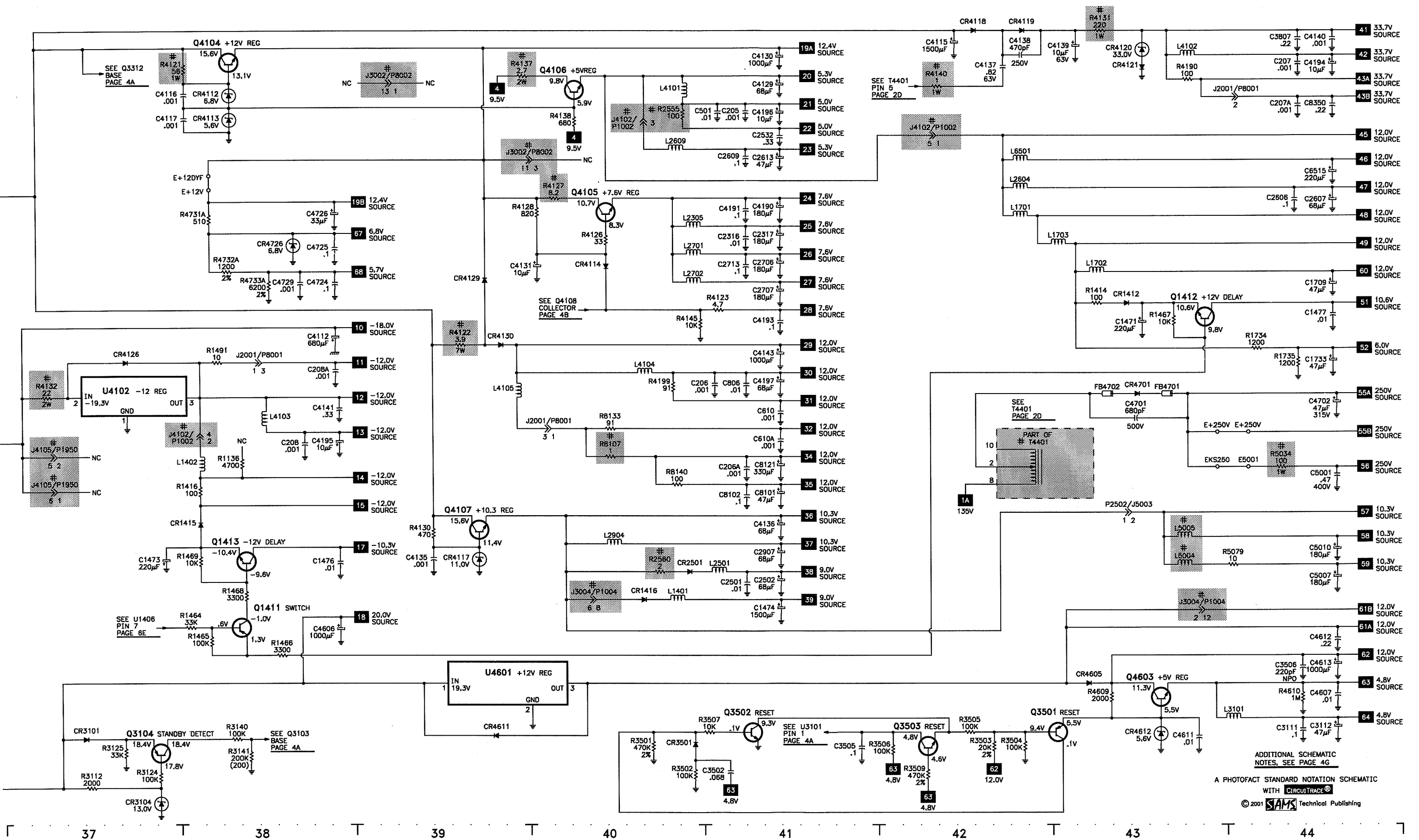
ADDITIONAL SCHEMATIC

NOTES, SEE PAGE 4G

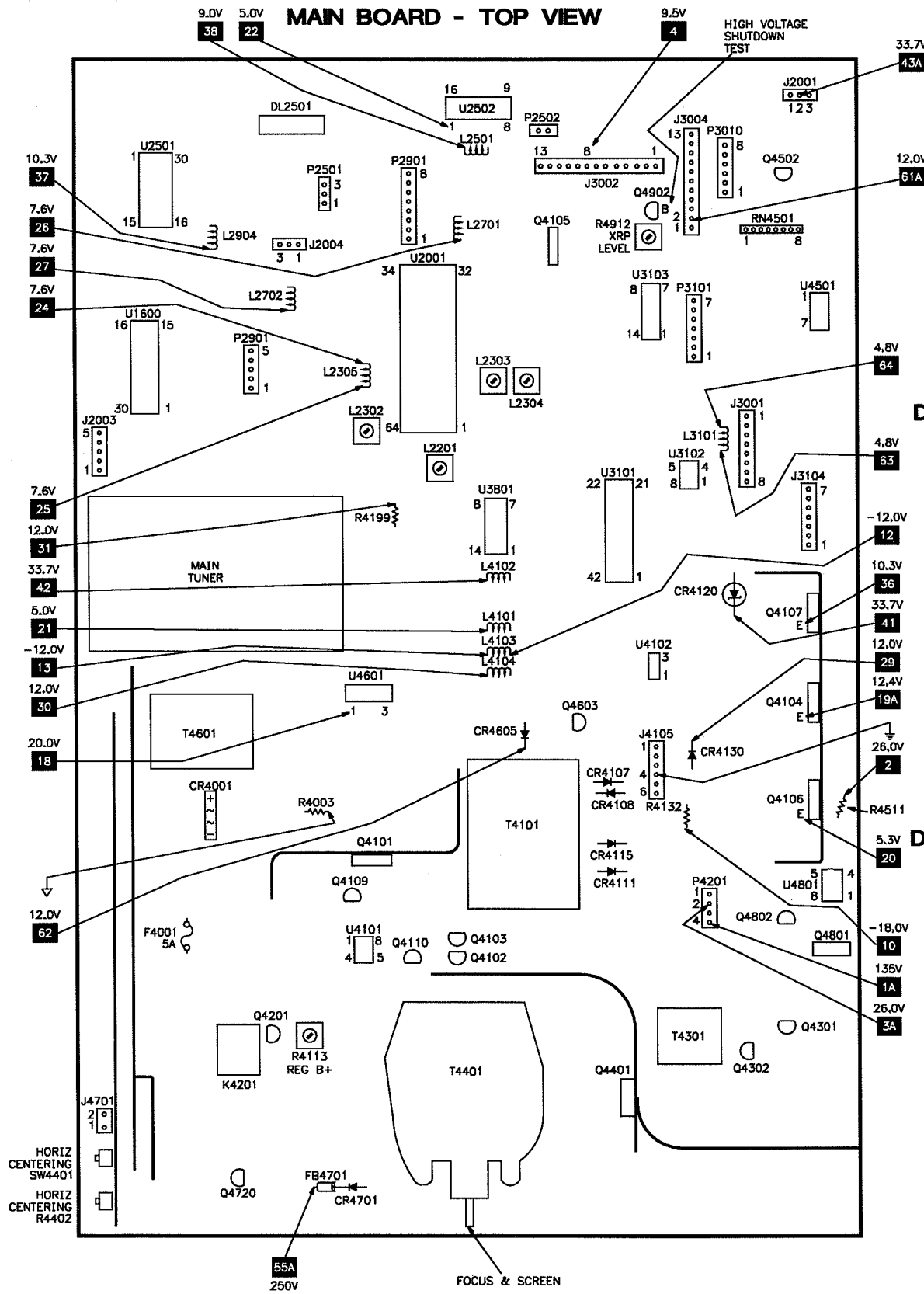
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WITH CIRCUITTRACE

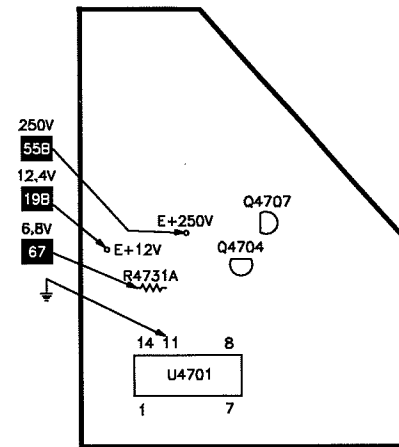
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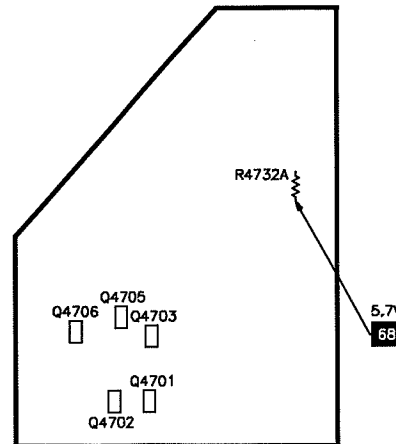
PLACEMENT CHART



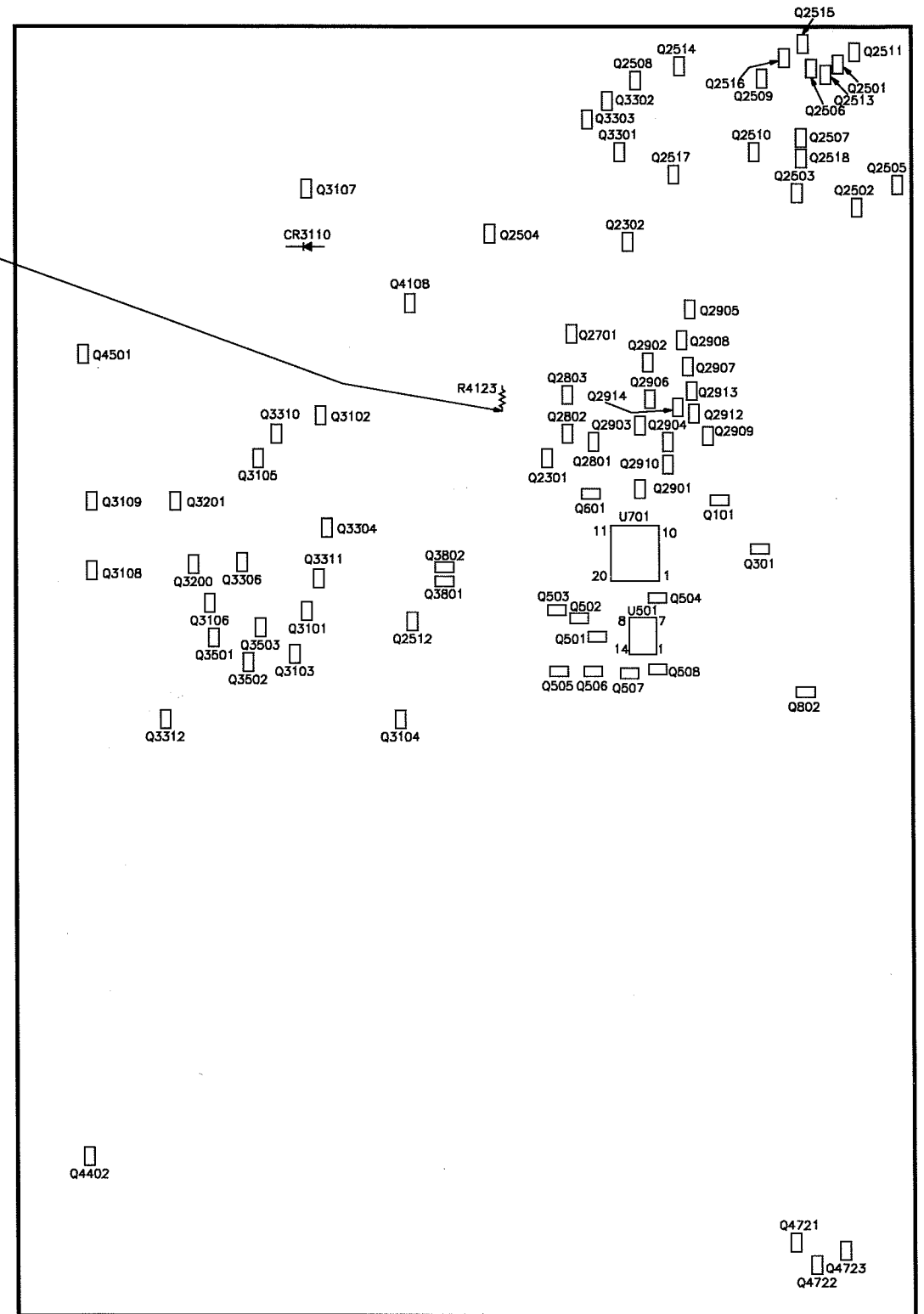
DYNAMIC FOCUS BOARD - TOP VIEW



DYNAMIC FOCUS BOARD - BOTTOM VIEW

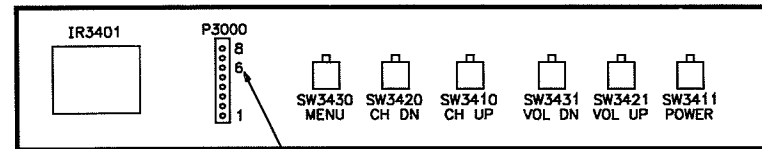


MAIN BOARD - BOTTOM VIEW

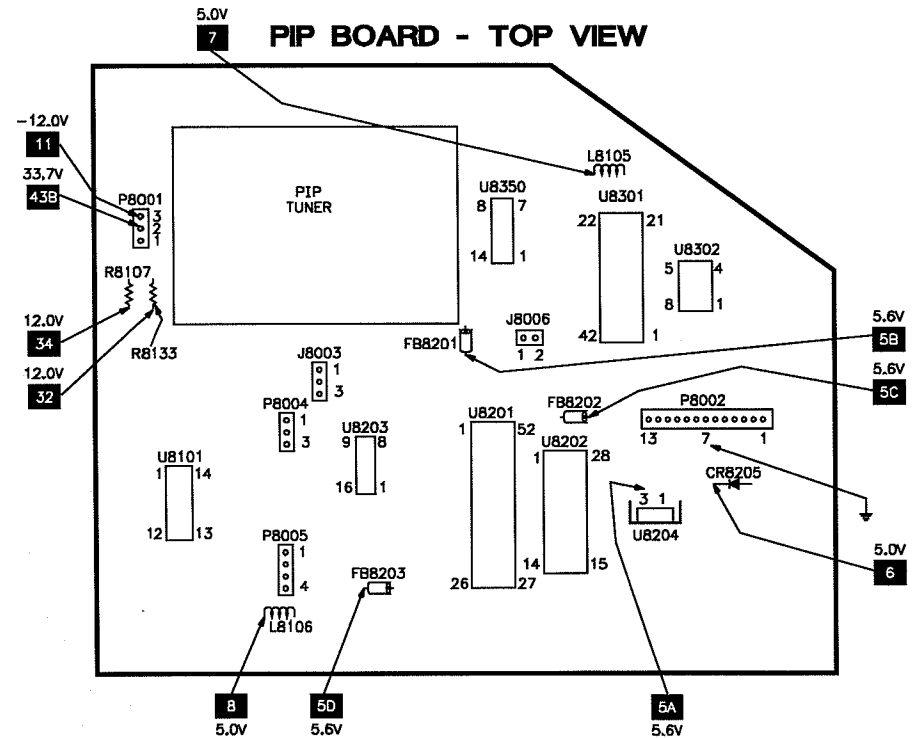


PLACEMENT CHART continued

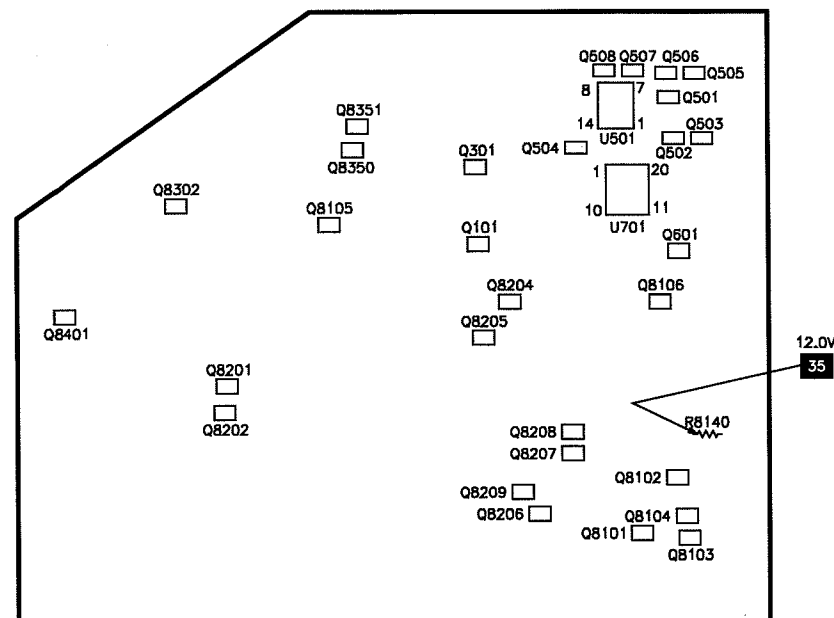
FRONT PANEL BOARD



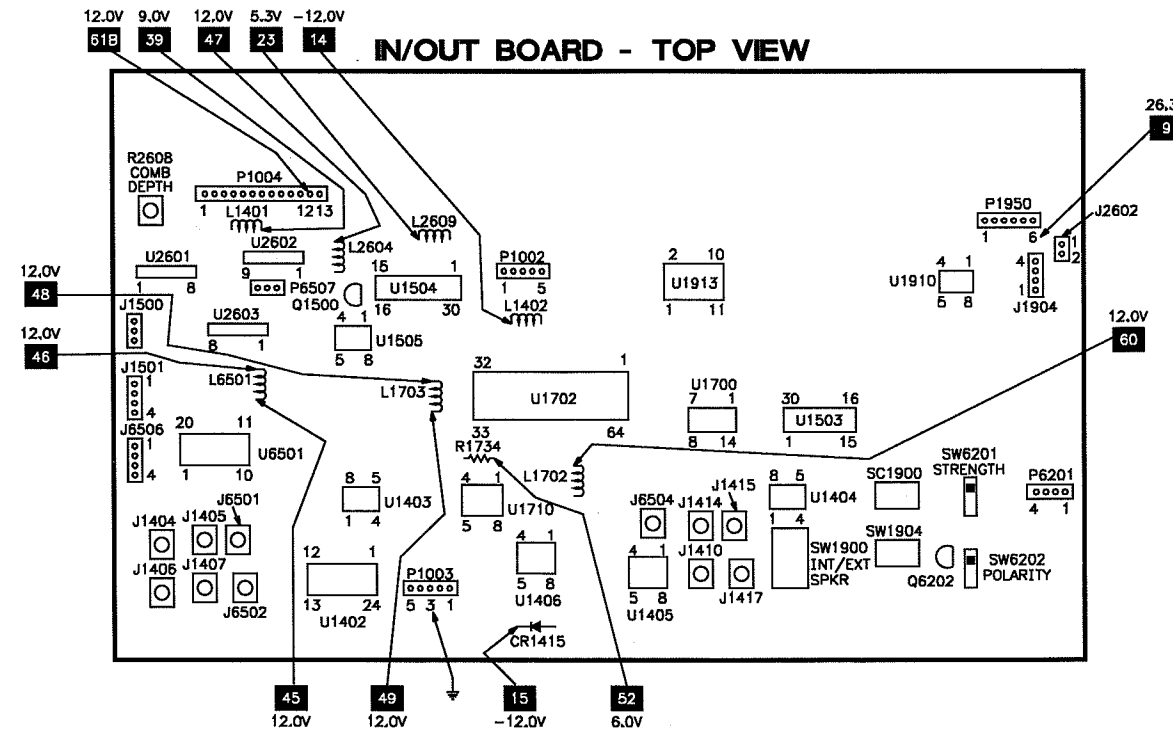
PIP BOARD - TOP VIEW



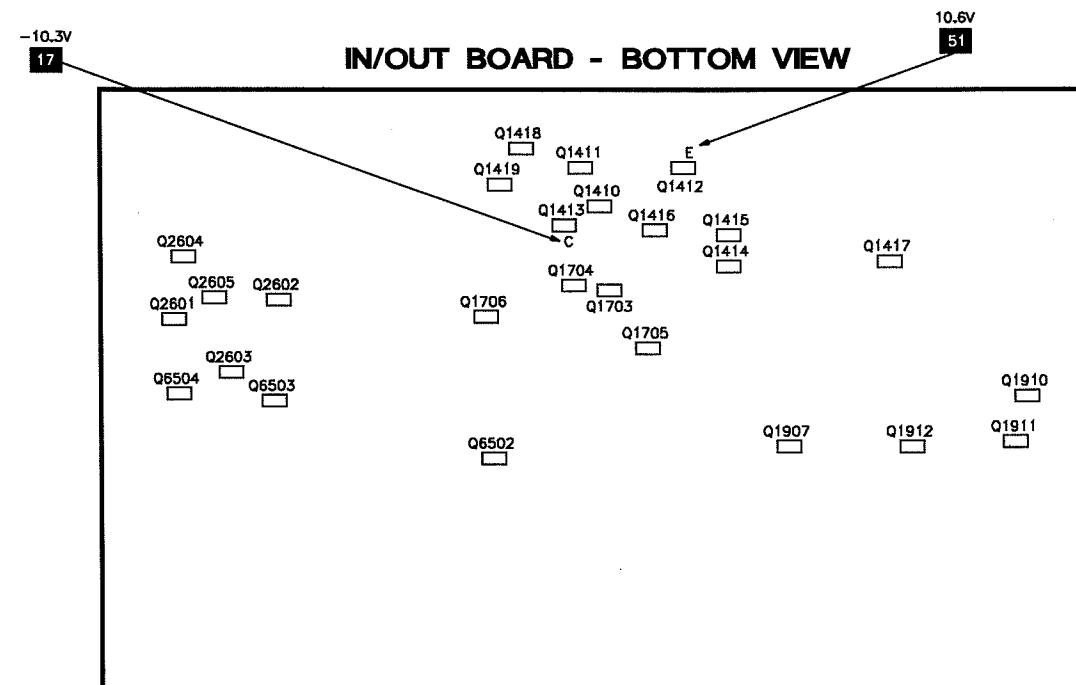
PIP BOARD - BOTTOM VIEW



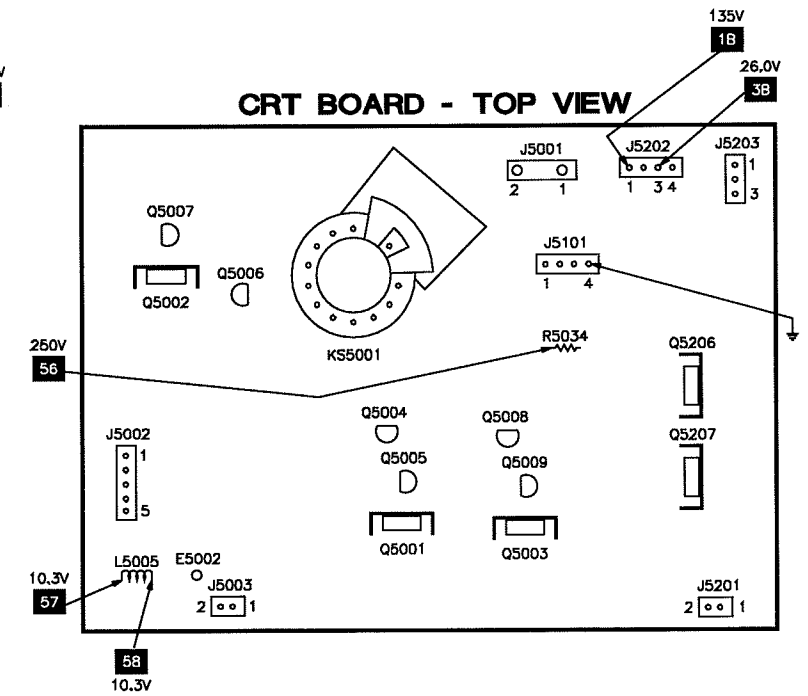
IN/OUT BOARD - TOP VIEW



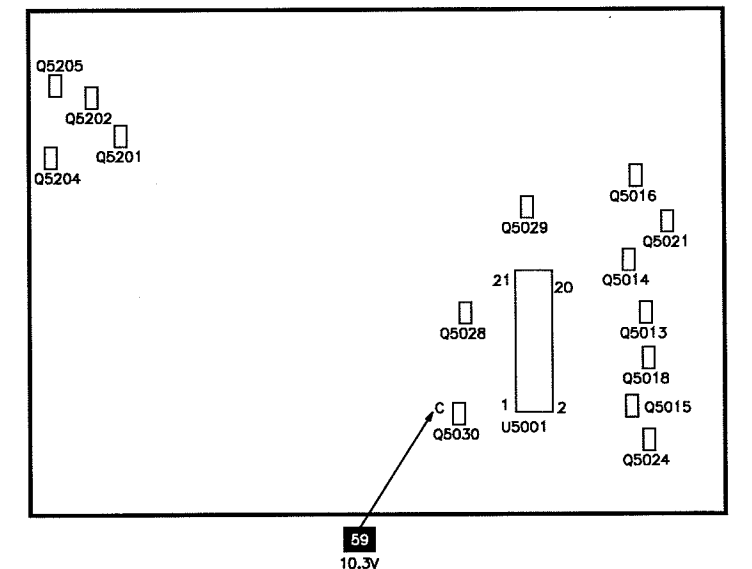
IN/OUT BOARD - BOTTOM VIEW



CRT BOARD - TOP VIEW



CRT BOARD - BOTTOM VIEW



RCA

MODEL F32730SBFM1 (CHASSIS CTC179CM)

C
SYSTEM CONTROL SCHEMATIC continued

PIP TUNER VOLTAGE CHART

Pin VHF Low VHF High UHF
No. Band Band Band

U501

1	1.8V	1.8V	1.8V
2	3.3V	3.3V	3.3V
3	4.7V	4.7V	4.7V
4	4.7V	4.7V	4.7V
5	4.7V	4.7V	4.7V
6	12.2V	.1V	12.0V
7	0V	0V	0V
8	12.0V	11.8V	0V
9	12.2V	12.2V	12.2V
10	5.0V	5.0V	5.0V
11	1.9V	1.9V	1.9V
12	1.9V	1.9V	1.9V
13	0V	0V	0V
14	DO NOT MEASURE DC VOLTAGE		

U701

1	8.1V	8.1V	8.1V
2	8.1V	8.1V	8.1V
3	0V	0V	0V
4	4.0V	4.0V	3.5V
5	4.0V	4.0V	3.5V
6	3.7V	3.7V	3.9V
7	3.7V	3.7V	3.9V
8	11.9V	11.9V	11.4V
9	11.9V	11.9V	11.4V
10	11.9V	11.9V	11.4V
11	0V	0V	4.1V
12	2.7V	2.7V	2.7V
13	4.7V	4.7V	7.9V
14	4.7V	4.7V	7.9V
15	2.7V	2.7V	2.7V
16	2.9V	2.9V	2.9V
17	8.0V	8.0V	4.3V
18	8.0V	8.0V	4.7V
19	2.9V	2.9V	2.9V
20	0V	0V	0V

Pin VHF Low VHF High UHF
No. Band Band Band

Q101

G1	1.7V	1.7V	0V
G2	2.3V	2.3V	2.3V
D	10.7V	10.7V	0V
S	0V	0V	0V

Q301

G1	0V	0V	4.0V
G2	.5V	.5V	.5V
D	0V	0V	10.3V
S	0V	0V	4.9V

Q501

E	12.0V	12.0V	12.0V
B	12.2V	.1V	12.0V
C	-11.9V	11.9V	-11.9V

Q506

E	12.0V	12.0V	12.0V
B	-4.3V	-4.3V	-4.3V
C	11.9V	11.8V	11.4V

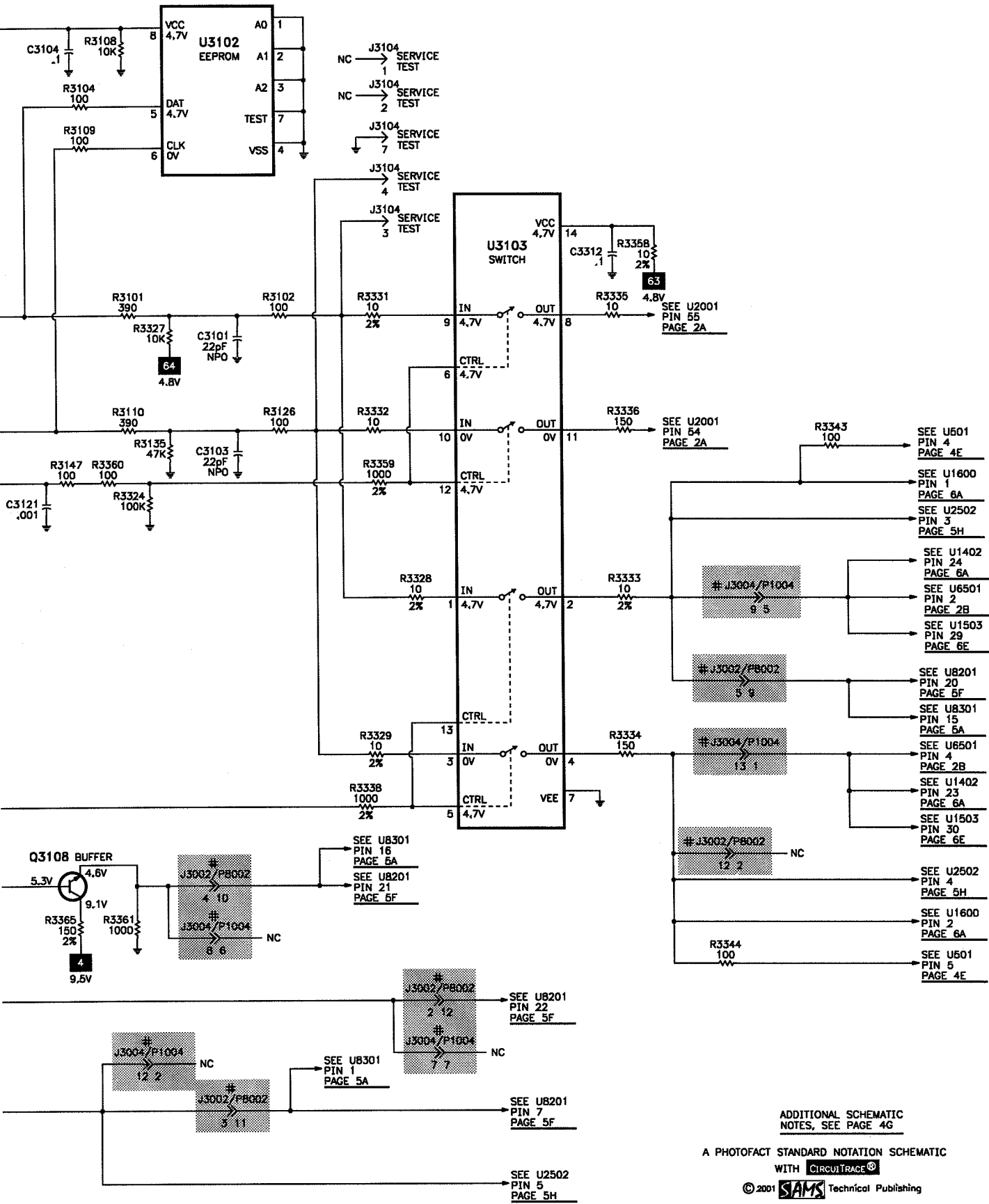
Q507

E	11.9V	11.8V	11.4V
B	12.0V	11.8V	0V
C	-2.4V	-2.5V	11.2V

Q508

E	11.9V	11.8V	11.4V
B	-2.4V	-2.5V	11.2V
C	11.9V	11.8V	-11.7V

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



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 4G

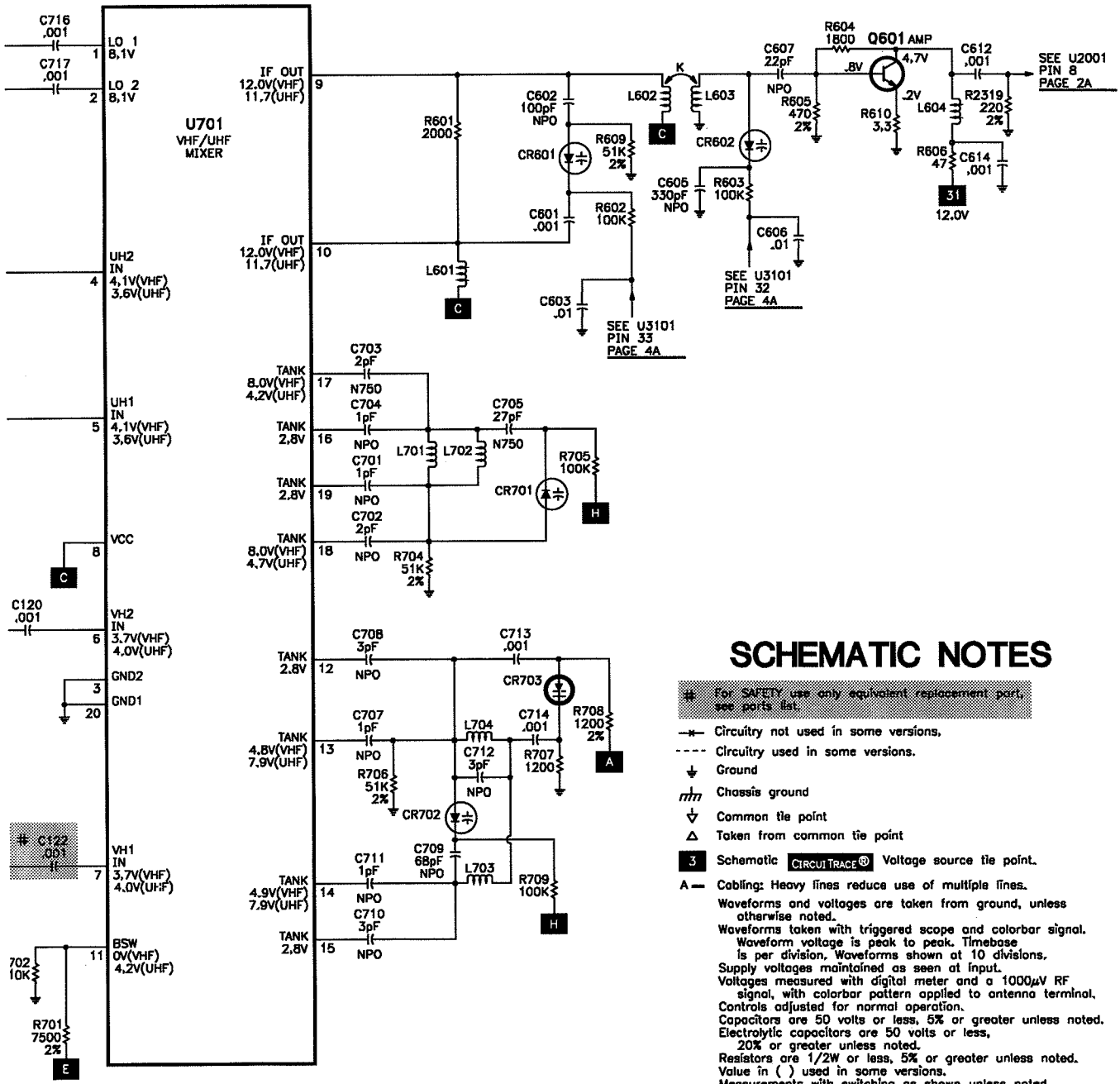
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F



G
MAIN TUNER SCHEMATIC continued



SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement parts, see parts list.
 - Circuitry not used in some versions.
 - Circuitry used in some versions.
 - ⬇ Ground
 - ⬆ Chassis ground
 - ⬇ Common tie point
 - Δ Taken from common tie point
 - 3 Schematic CIRCUITTRACE® Voltage source tie point.
 - A — Cabling: Heavy lines reduce use of multiple lines.
- Waveforms and voltages are taken from ground, unless otherwise noted.
Waveforms taken with triggered scope and colorbar signal.
Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.
Supply voltages maintained as seen at input.
Voltages measured with digital meter and a 1000μV RF signal, with colorbar pattern applied to antenna terminal. Controls adjusted for normal operation.
Capacitors are 50 volts or less, 5% or greater unless noted. Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.
Resistors are 1/2W or less, 5% or greater unless noted. Value in () used in some versions.
Measurements with switching as shown unless noted. Rated voltage shown on zener diodes.

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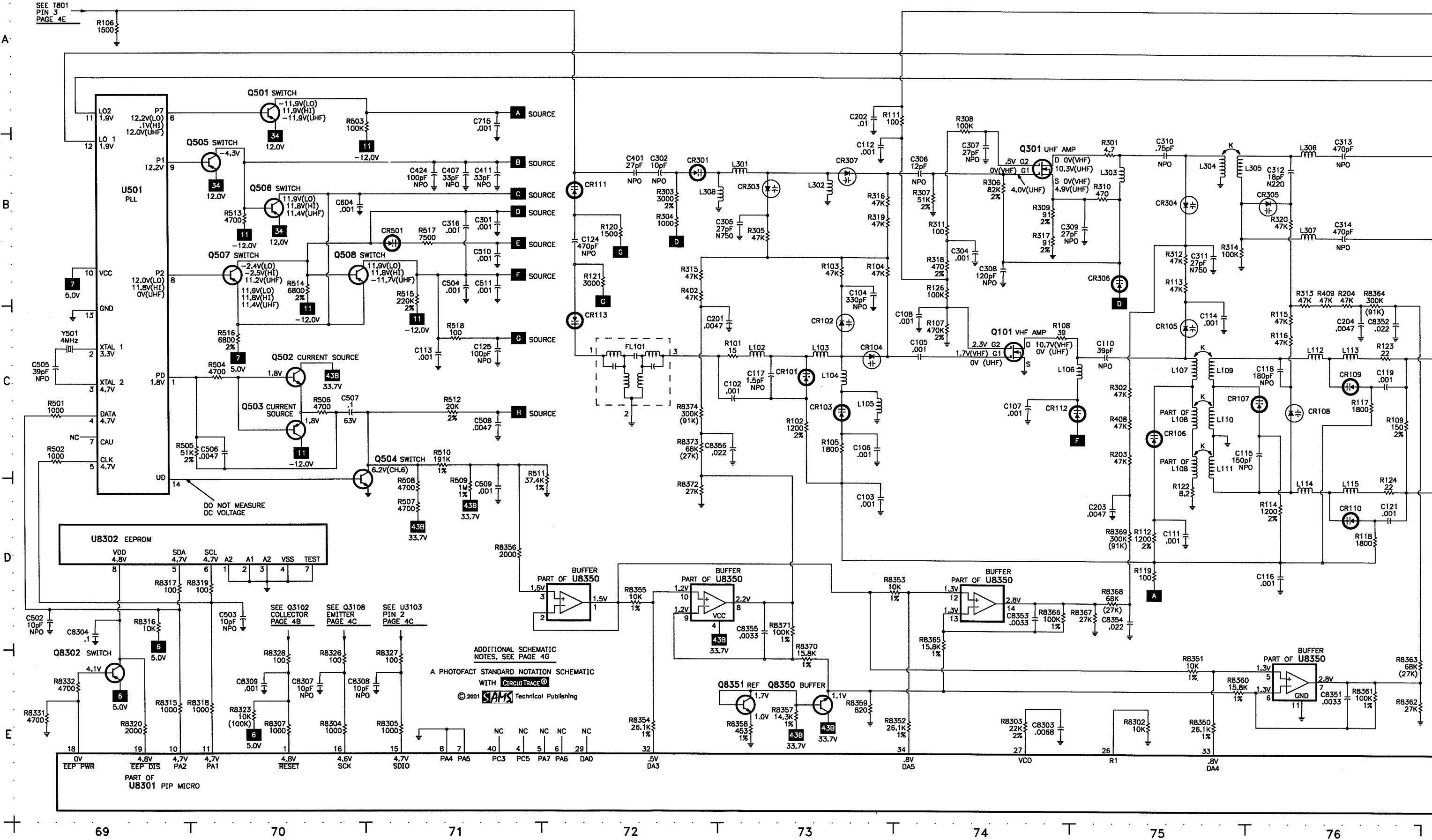
MAIN TUNER VOLTAGE CHART

Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band
U501				Q101			
1	1.8V	1.8V	1.8V	G1	1.7V	1.7V	0V
2	3.3V	3.3V	3.3V	G2	3.3V	3.3V	3.3V
3	4.7V	4.7V	4.7V	D	10.7V	10.7V	0V
4	4.7V	4.7V	4.7V	S	0V	0V	0V
5	4.7V	4.7V	4.7V	Q301			
6	12.2V	.1V	12.0V	G1	0V	0V	4.1V
7	0V	0V	0V	G2	.5V	.5V	7.4V
8	12.1V	12.1V	.1V	D	0V	0V	10.6V
9	12.3V	12.3V	12.3V	S	0V	0V	5.1V
10	5.0V	5.0V	5.0V	Q501			
11	1.9V	1.9V	1.9V	E	12.0V	12.0V	12.0V
12	1.9V	1.9V	1.9V	B	12.2V	.1V	12.0V
13	0V	0V	0V	C	-11.9V	12.0V	-11.9V
14	DO NOT MEASURE DC VOLTAGE			Q506			
U701				E	12.0V	12.0V	12.0V
1	8.1V	8.1V	8.1V	B	-4.3V	-4.3V	-4.3V
2	8.1V	8.1V	8.1V	C	12.0V	12.0V	11.7V
3	0V	0V	0V	Q507			
4	4.1V	4.1V	3.6V	E	12.0V	12.0V	11.7V
5	4.1V	4.1V	3.6V	B	12.1V	12.1V	.1V
6	3.7V	3.7V	4.0V	C	-2.5V	-2.5V	11.5V
7	3.7V	3.7V	4.0V	Q508			
8	12.0V	12.0V	11.7V	E	12.0V	12.0V	11.7V
9	12.0V	12.0V	11.7V	B	-2.5V	-2.5V	11.5V
10	12.0V	12.0V	11.7V	C	11.9V	11.9V	-11.8V
11	0V	0V	4.2V	NOTE: VHF Low Band voltages taken on channel 14.			
12	2.8V	2.8V	2.8V	VHF High Band voltages taken on channel 14.			
13	4.8V	4.8V	7.9V	UHF Band voltages taken on channel 14.			
14	4.9V	4.9V	7.9V				
15	2.8V	2.8V	2.8V				
16	2.8V	2.8V	2.8V				
17	8.0V	8.0V	4.2V				
18	8.0V	8.0V	4.7V				
19	2.8V	2.8V	2.8V				
20	0V	0V	0V				

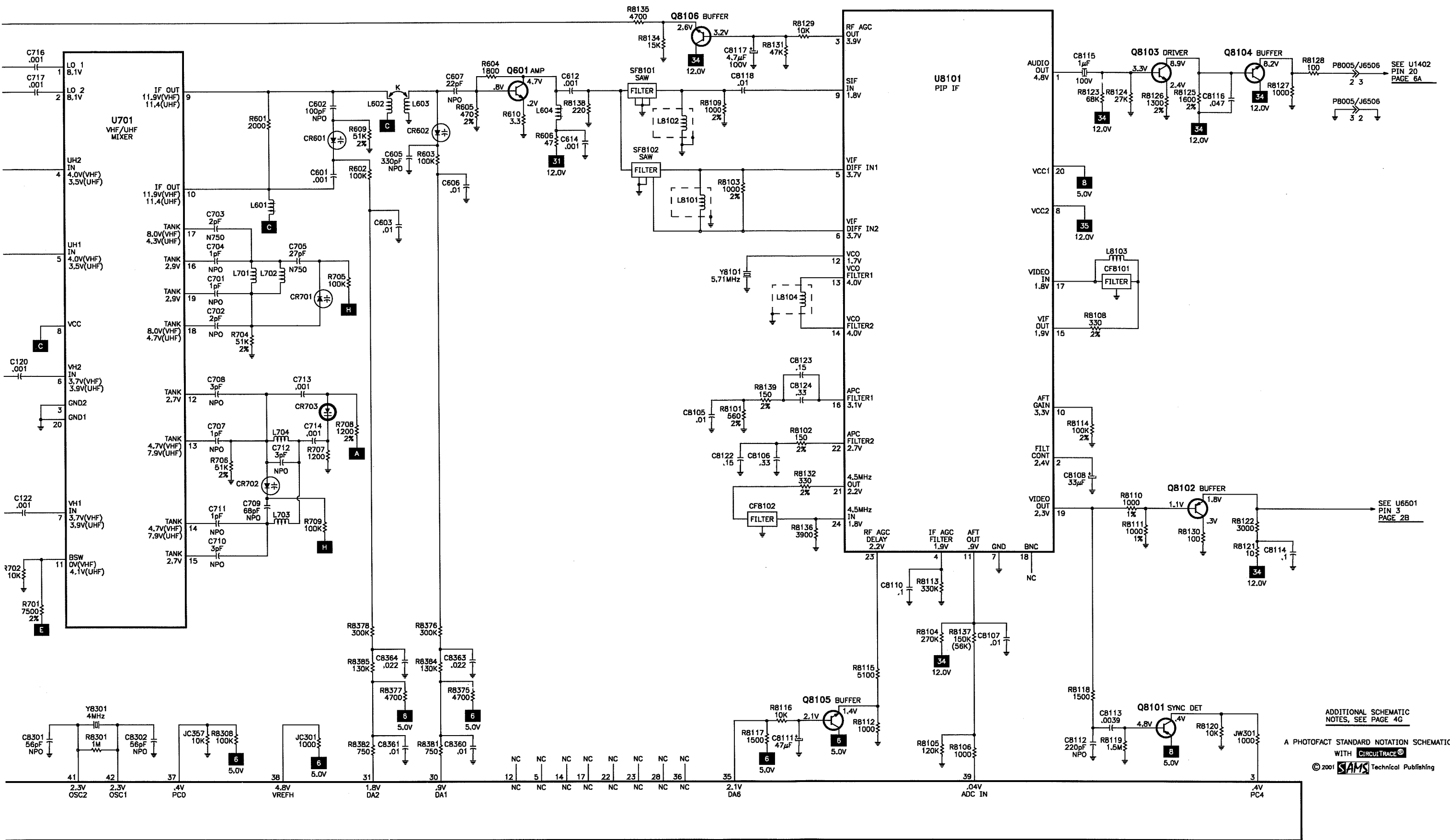
NOTE: VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

RCA
MODEL F32730SBFM1 (CHASSIS CTC179CM)

PIP TUNER/IF SCHEMATIC



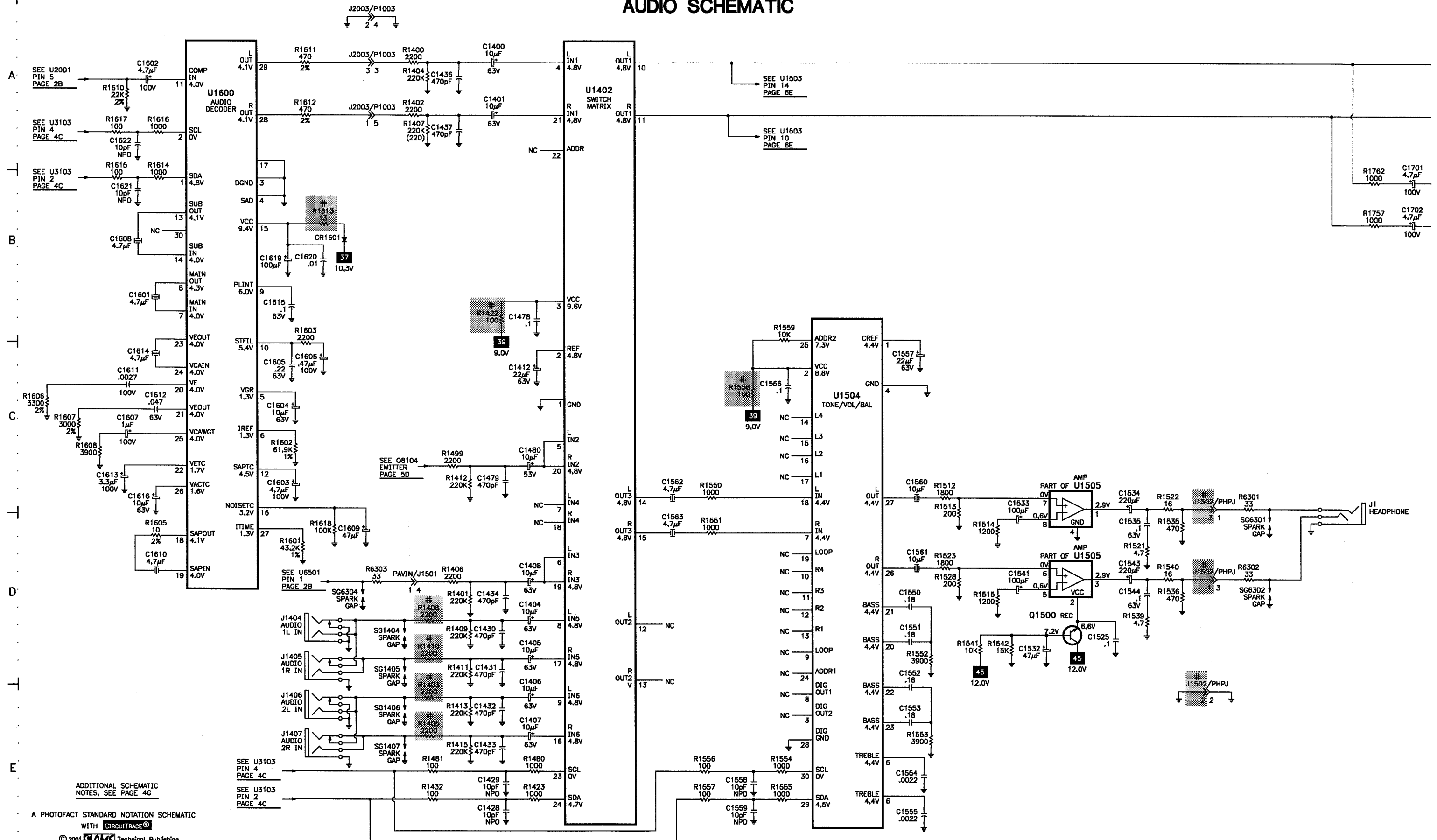
PIP TUNER/IF SCHEMATIC continued



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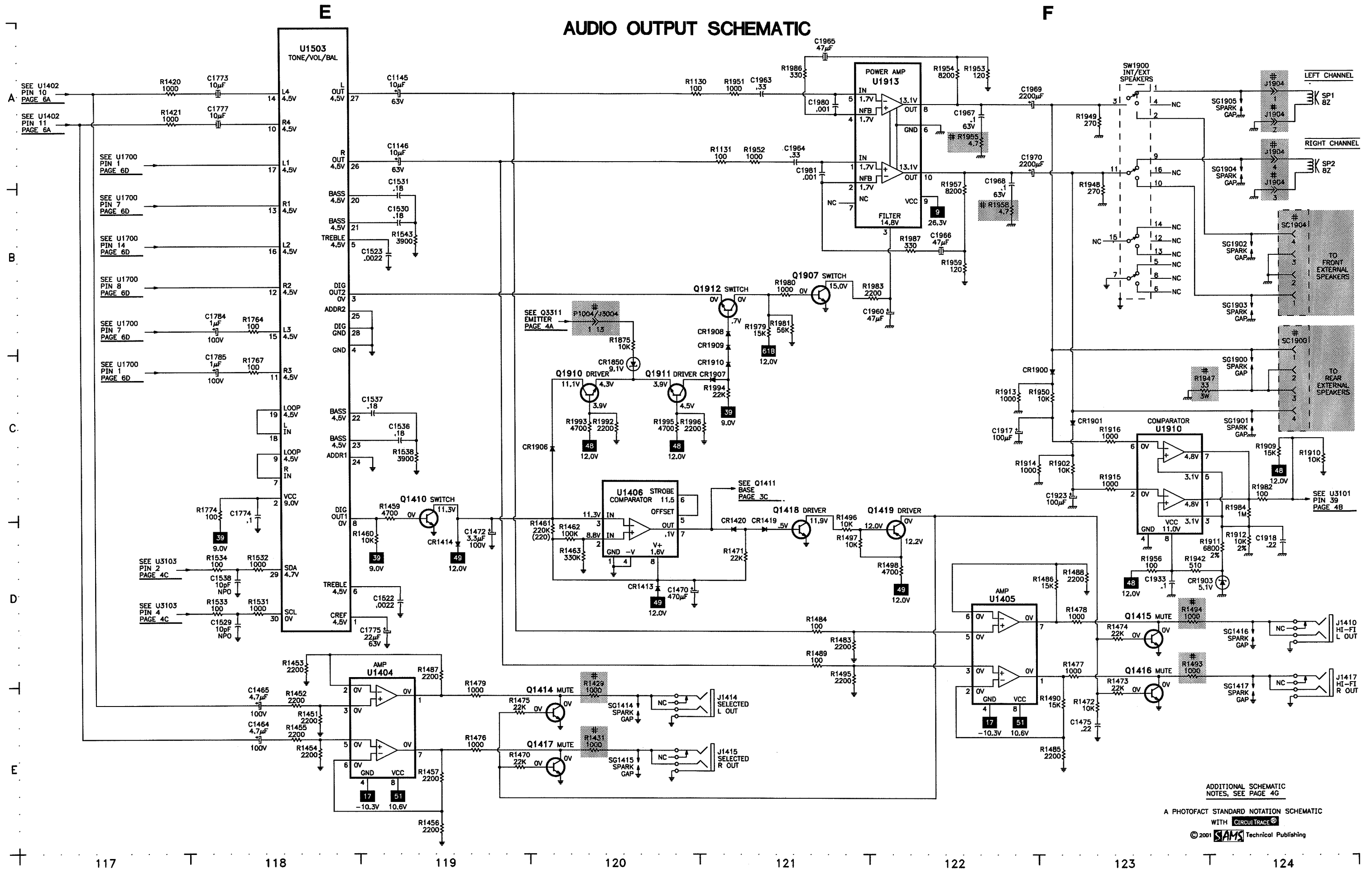




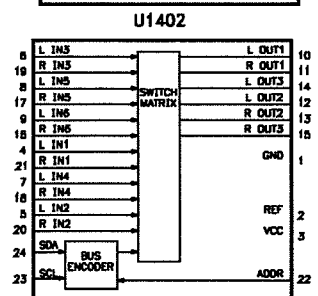
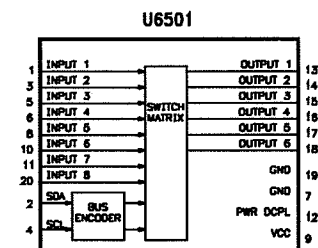
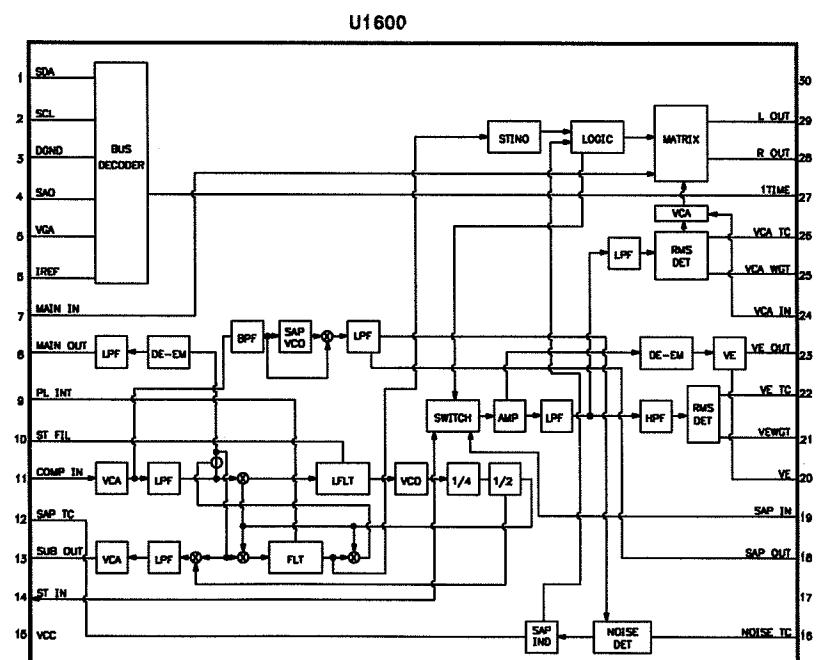
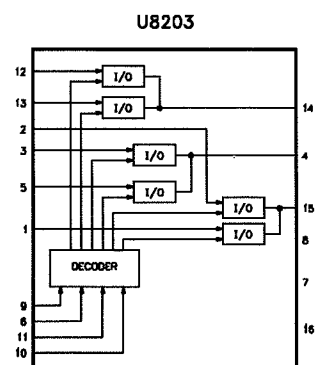
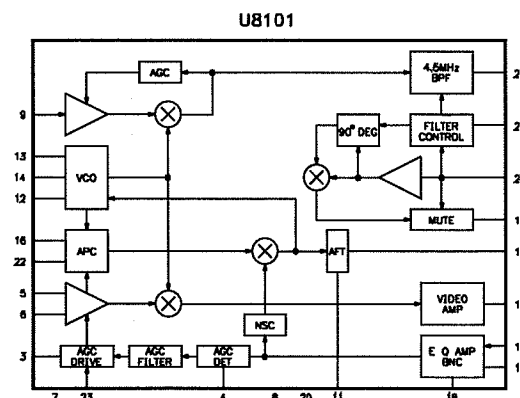
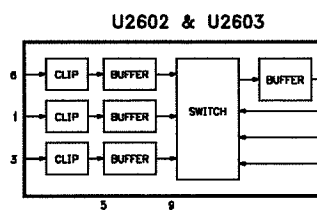
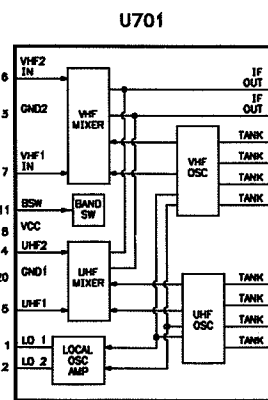
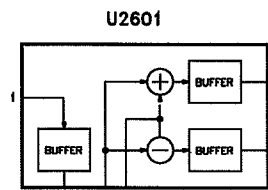
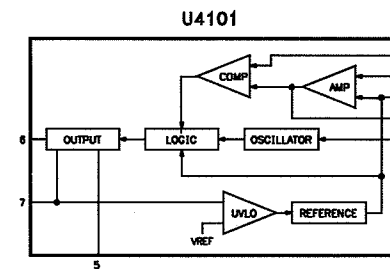
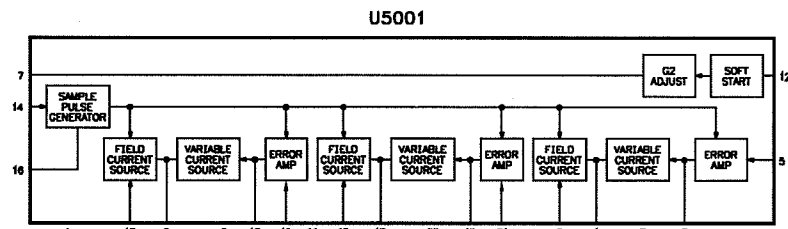
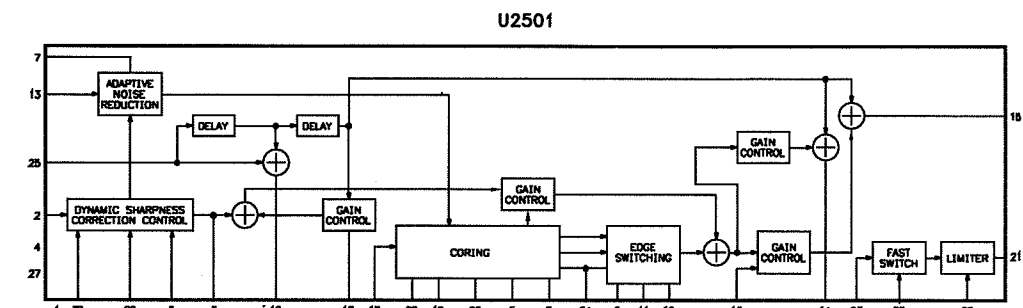
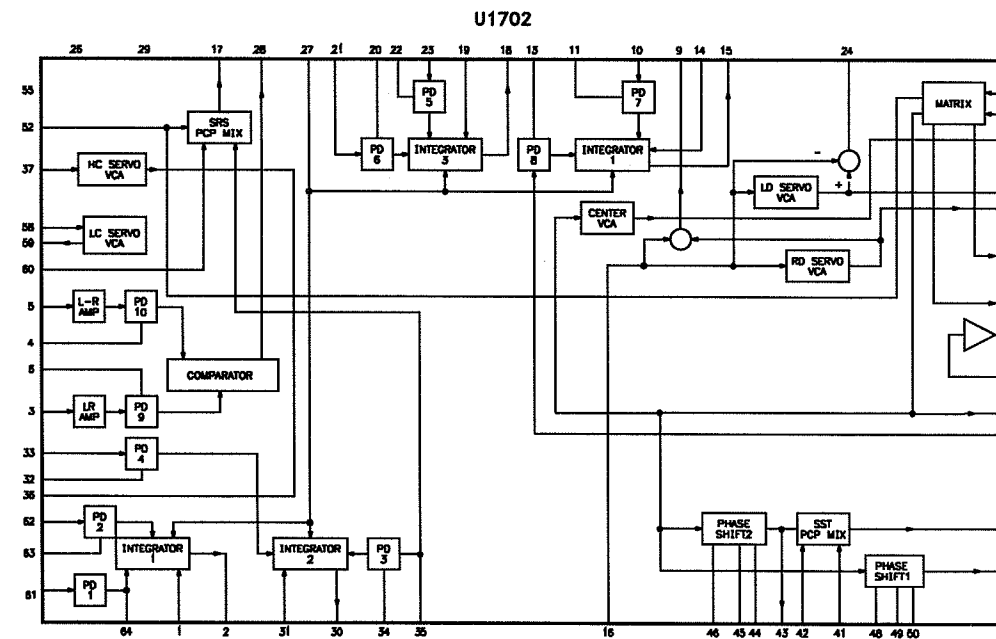
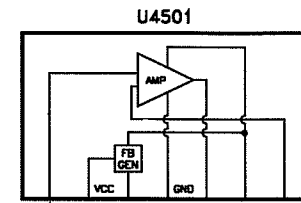
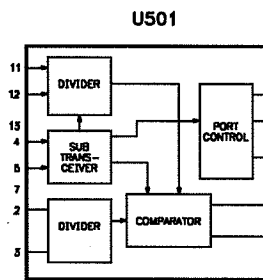
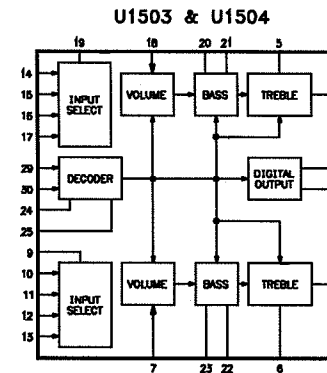
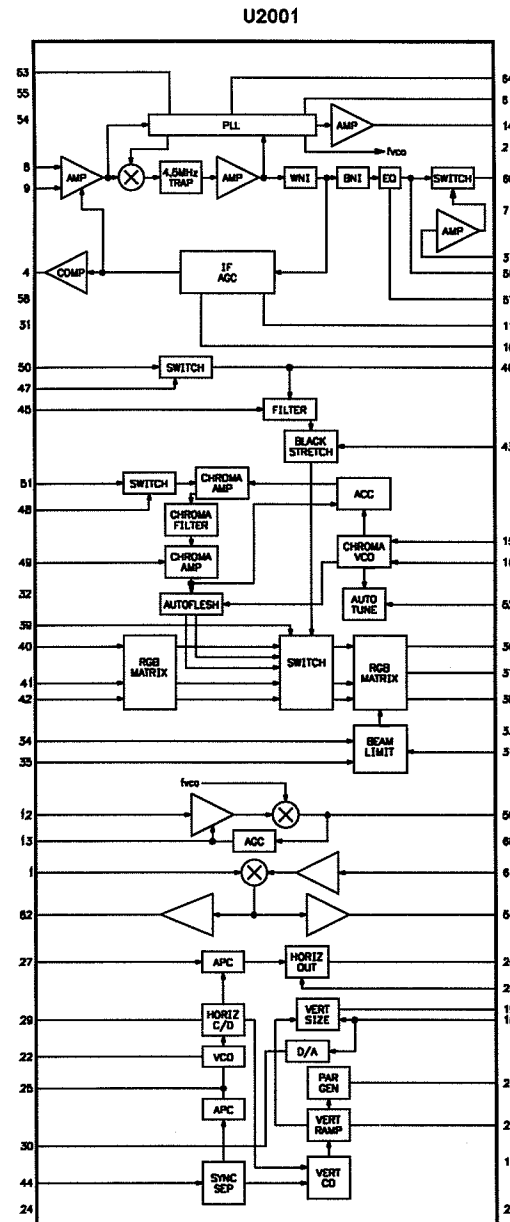
AUDIO SCHEMATIC continued



AUDIO OUTPUT SCHEMATIC



IC FUNCTIONS



SCHEMATIC COMPONENT LOCATION GUIDE

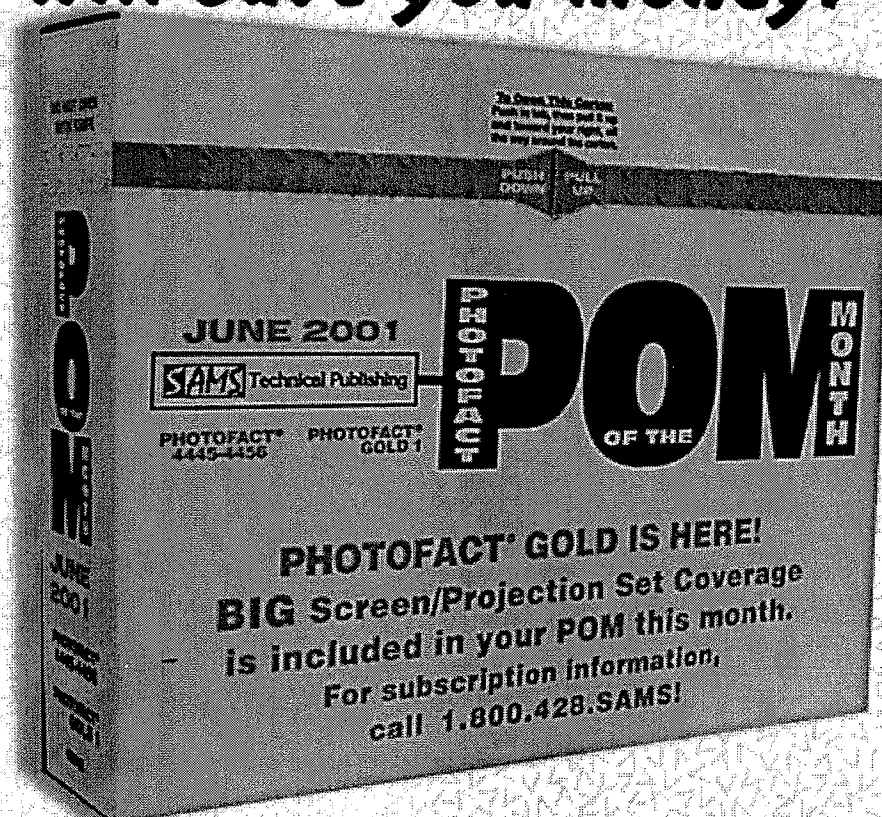
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SCHEMATIC COMPONENT LOCATION GUIDE continued

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R117	C76	R505	D58	R1410	D103	R1528	D106	R1747	D110	R2201	A3	R2554	B96	R2702	C13	R3112	E37	R3331	B54	R3832	B48	R4410	E21	R4806	E17	R5060	C18	R6537	C6	R8232	C88	R8376	D79	U4102	C37
R118	D64	R506	C70	R1411	D103	R1531	D118	R1748	C110	R2202	A5	R2555	A40	R2703	C13	R3113	B51	R3332	C54	R3833	B48	R4411	E20	R4807	E17	R5063	C19	R6539	B6	R8233	C88	R8377	E79	U4501	D7
R118	D76	R506	D58	R1412	C103	R1532	D118	R1749	E112	R2203	B5	R2556	E96	R2705	D3	R3114	D50	R3333	C55	R4001	A30	R4412	E20	R4810	E19	R5068	C21	R6540	C6	R8234	B92	R8378	D79	U4601	E39
R119	D63	R507	D71	R1413	E103	R1533	D118	R1755	E112	R2204	A4	R2557	E96	R2706	C10	R3115	C50	R3334	D55	R4002	A29	R4413	E20	R4811	E17	R5069	D19	R6541	B6	R8235	C92	R8381	E79	U4701	D10
R119	D75	R507	E59	R1414	C43	R1534	D118	R1757	B108	R2301	C3	R2558	B95	R2707	C12	R3116	A50	R3335	B55	R4003	A31	R4414	E20	R4812	E19	R5070	B21	R6543	B6	R8236	B93	R8382	E79	U4701	E7
R120	B60	R508	D71	R1415	E103	R1535	D107	R1758	E109	R2302	A2	R2559	B98	R2708	C13	R3118	C4	R3336	C55	R4100	B31	R4415	E20	R4813	E18	R5072	B24	R6544	B6	R8237	C93	R8384	D79	U4701	E8
R120	B72	R508	E59	R1416	D38	R1536	D107	R1759	D111	R2304	C3	R2560	D40	R2712	B2	R3119	E50	R3338	D54	R4101	B31	R4416	E20	R4814	D17	R5073	B21	R6545	C6	R8238	C93	R8385	D79	U4701	E9
R121	B72	R509	D71	R1420	A117	R1538	C119	R1760	E111	R2305	C2	R2561	D98	R2713	B3	R3120	E50	R3341	B48	R4102	B31	R4501	D8	R4815	E3	R5079	D44	R6546	C6	R8239	B91	R8401	E85	U4801	E17
R121	C60	R509	E59	R1421	A117	R1539	D107	R1761	D111	R2307	C2	R2562	D98	R2714	C10	R3121	E47	R3342	B48	R4103	B30	R4502	D6	R4816	E3	R5083	A24	R6548	C45	R8240	C87	R8402	E86	U5001	A20
R122	D63	R510	D59	R1422	B103	R1540	D107	R1762	B108	R2308	C4	R2563	E97	R2715	C10	R3122	E47	R3343	C56	R4104	D32	R4503	E45	R4817	E3	R5084	A24	R8101	C81	R8241	B88	RN4501	D6	U6501	B6
R122	D75	R510	D71	R1423	E103	R1541	D106	R1763	C116	R2309	C1	R2564	E97	R2716	C10	R3123	E47	R3344	E55	R4105	D32	R4504	E45	R4818	D4	R5085	C19	R8102	C81	R8244	C93	RT4201	A30	U8101	A82
R123	C64	R511	D71	R1429	E120	R1542	D106	R1764	B118	R2310	B4	R2565	D100	R2717	B2	R3124	E37	R3353	A51	R4106	E34	R4505	E45	R4901	E2	R5086	B20	R8103	B81	R8245	A93	SF2301	B1	U8201	C90
R123	C76	R511	E59	R1431	E120	R1543	B119	R1767	C118	R2311	B4	R2566	D100	R2718	B3	R3125	E37	R3354	A51	R4107	E34	R4507	D8	R4903	E2	R5087	B22	R8104	D82	R8246	A92	SF2302	A1	U8202	C91
R124	D64	R512	C71	R1432	E103	R1550	C104	R1768	D113	R2312	B5	R2567	D97	R2751	C14	R3126	C54	R3355	A51	R4108	E34	R4508	D6	R4904	D2	R5088	B22	R8105	E82	R8247	A92	SF8101	A80	U8203	A92
R124	D76	R512	D59	R1440	A112	R1551	D104	R1769	D112	R2313	B4	R2568	D97	R2752	C13	R3127	D51	R3356	A52	R4109	D34	R4509	D6	R4905	E2	R5089	B27	R8106	E82	R8249	A93	SF8102	B80	U8204	B35
R126	C62	R513	B70	R1441	A113	R1552	D106	R1770	C114	R2314	B1	R2569	D100	R2753	D4	R3128	E51	R3357	A52	R4110	D34	R4510	D5	R4906	D2	R5201	E21	R8107	C40	R8250	C11	SP1	A124	U8301	E69
R126	C74	R513	C58	R1442	A113	R1553	E106	R1771	C114	R2315	B2	R2570	D98	R2754	C12	R3129	E51	R3358	B55	R4111	D34	R4511	A35	R4907	E2	R5202	E21	R8108	C82	R8251	E89	SP2	A124	U8301	E66
R203	C75	R514	B70	R1443	A114	R1554	E105	R1772	C115	R2316	B2	R2571	D98	R2755	C12	R3130	E51	R3359	C54	R4112	D34	R4512	D5	R4908	D3	R5203	E21	R8109	A80	R8252	E92	SW801	B59	U8302	D86
R203	D63	R514	C58	R1444	A113	R1555	E105	R1773	C115	R2317	C4	R2572	C97	R2756	C12	R3131	E51	R3360	C53	R4113	D34	R4516	D6	R4909	E2	R5204	E21	R8110	D83	R8253	B92	SW1900	A123	U8350	D71
R204	C64	R515	C71	R1445	B113	R1556	E104	R1774	D118	R2318	C2	R2573	C97	R2801	D94	R3132	E52	R3361	D53	R4114	D34	R4518	D6	R4910	D2	R5205	E22	R8111	D83	R8254	D88	SW3410	C46	U8350	D72
R204	C76	R515	D59	R1446	A112	R1557	E104	R1775	C114	R2319	A68	R2574	E96	R2802	C11	R3135	C53	R3362	E52	R4116	E31	R4519	D6	R4912	E2	R5207	E21	R8112	E81	R8256	C89	SW3411	B45	U8350	D74
R301	B63	R516	C70	R1447	A112	R1558	C105	R1776	C114	R2320	C1	R2575	E96	R2803	C11	R3137	D51	R3364	D52	R4117	E31	R4591	D3	R5001	A19	R5208	E22	R8113	D82	R8257	B90	SW3420	B46	U8350	E76
R301	B75	R516	D58	R1448	B114	R1559	C105	R1777	C115	R2321	B2	R2576	E96	R2804	C10	R3138	D52	R3365	D53	R4118	E31	R4609	E43	R5002	A20	R5210	E22	R8114	C82	R8258	D91	SW3421	B46	V	

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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.

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.
CR101	-	215493	-	CR4701	-	164589	NTE580	Q2912, 13, 14	-	215496	-
CR102	-	211863	-	CR4703	-	164874	NTE177	Q3101	-	215496	-
CR103	-	215493	-	# CR4704	-	227379	-	Q3102, 03	-	215495	-
CR104	-	227051	-	CR4720	-	176296	NTE552	Q3104, 05	-	215496	-
CR105	-	211863	-	CR4720A	-	164874	NTE177	Q3106 Thru	-	-	-
CR106, 07	-	215493	-	CR4721 (1)	-	176296	NTE552	Q3109	-	215495	-
CR108	-	211863	-	CR4721 (2)	-	164717	NTE519	Q3200	-	215495	-
CR109	-	215493	-	CR4721A	-	164874	NTE177	Q3201	-	215496	-
CR110 Thru	-	-	-	CR4722, 23	-	164717	NTE519	Q3301 Thru	-	-	-
CR113	-	215493	-	CR4726	-	215487	-	Q3304	-	215496	-
CR301	-	215493	-	CR4727	-	164874	NTE177	Q3306	-	215496	-
CR303, 04, 05	-	215492	-	CR4801	-	164717	NTE519	Q3310, 11	-	215495	-
CR306	-	215493	-	CR4802	-	-	-	Q3312	-	215496	-
CR307	-	227082	-	CR4803, 04	-	164717	NTE519	Q3501	-	215496	-
CR501	-	215493	-	# CR4901	-	157301	NTE177	Q3502, 03	-	215495	-
CR601, 02	-	227051	-	# CR4902	-	159429	NTE5019T1	Q4101	-	214640	-
CR701	-	215492	-	CR5001, 02	-	140971	NTE558	Q4102	-	177789	NTE32
CR702	-	211863	-	CR5003	-	164717	NTE519	Q4103	-	223704	-
CR703	-	215493	-	CR5004, 05, 06	-	139706	NTE177	Q4104	-	226975	-
CR1412 Thru	-	-	-	CR5007, 08, 09	-	215487	-	Q4105	-	157627	NTE54
CR1418	-	147015	NTE125	CR6201, 03	-	176296	NTE552	Q4106, 07	-	226975	-
CR1419, 20	-	223659	-	CR6204	-	223694	-	Q4108	-	215496	-
CR1601	-	164717	NTE519	CR6501 Thru	-	-	-	Q4109	-	226971	-
CR1850	-	227362	-	CR6504	-	215487	-	Q4110	-	226972	-
CR1900, 01	-	223659	-	CR6505	-	227362	-	Q4201	-	223704	-
CR1903	-	227355	-	CR8203, 04, 05	-	164874	NTE177	Q4301	-	223704	-
CR1906 Thru	-	-	-	CR8301, 02	-	164874	NTE177	Q4302	-	190482	NTE287
CR1910	-	223659	-	Q101	-	226973	-	Q4401	-	227010	-
CR2201	-	227051	-	Q301	-	227008	-	Q4402	-	215495	-
CR2501	-	164717	NTE519	Q501	-	219028	-	Q4501	-	215495	-
CR2752	-	229644	-	Q502	-	215495	-	Q4502	-	177788	NTE31
CR3101	-	164717	NTE519	Q503	-	215496	-	Q4603	-	223704	-
CR3102, 03	-	223659	-	Q504	-	215495	-	Q4701	-	215496	-
CR3104	-	226783	-	Q505 Thru	-	-	-	Q4702, 03	-	215495	-
CR3105, 06, 07	-	215493	-	Q508	-	219028	-	Q4704	-	226453	NTE399
CR3301, 02, 06	-	223659	-	Q601	-	226981	-	Q4705, 06	-	215495	-
CR3307	-	226782	-	Q1410	-	215495	-	Q4707, 20	-	226453	NTE399
CR3308	-	223659	-	Q1411, 12	-	215496	-	Q4721, 22	-	215496	-
CR3401	-	198602	-	Q1413 Thru	-	-	-	Q4723	-	215495	-
CR3501	-	223659	-	Q1418	-	215495	-	Q4801	-	214641	-
# CR4001	-	214649	NTE5331	Q1419	-	215496	-	Q4802	-	145395	NTE123AP
CR4101	-	223338	-	Q1500	-	177788	NTE31	# Q4902	-	147665	NTE159
CR4102	-	227066	-	Q1703 Thru	-	-	-	Q5001, 02, 03	-	208434	NTE376%
CR4103, 05, 06	-	164717	NTE519	Q1706	-	227814	-	Q5004	-	226453	NTE399
CR4107, 08	-	164590	NTE580	Q1907, 10, 11, 12	-	215495	-	Q5005	-	227406	NTE288
CR4109	-	223339	-	Q2301	-	215495	-	Q5006	-	226453	NTE399
CR4110	-	164589	NTE580	Q2302	-	215496	-	Q5007	-	227406	NTE288
CR4111	-	164590	NTE580	Q2501	-	215496	-	Q5008	-	226453	NTE399
CR4112	-	218514	-	Q2502, 03, 04	-	215495	-	Q5009	-	227406	NTE288
CR4113	-	226504	-	Q2505	-	215496	-	Q5013, 14, 15	-	215496	-
CR4114	-	164717	NTE519	Q2506	-	215495	-	Q5016, 18	-	215495	-
CR4115	-	164590	NTE580	Q2507	-	215496	-	Q5021, 24	-	215495	-
CR4116	-	214653	-	Q2508, 09, 10	-	215495	-	Q5028, 29, 30	-	214644	-
CR4117	-	226782	-	Q2511	-	215496	-	Q5201, 02	-	215495	-
CR4118, 19	-	176296	NTE552	Q2512, 13	-	215495	-	Q5204	-	177788	NTE31
CR4120	-	217306	-	Q2514	-	215496	-	Q5205	-	177789	NTE32
CR4121, 26	-	164717	NTE519	Q2515	-	215495	-	Q5206	-	227405	-
CR4128	-	164590	NTE580	Q2516	-	215496	-	Q5207	-	227404	-
CR4129, 30	-	147015	NTE125	Q2517	-	215495	-	Q6202	-	223704	-
CR4131	-	223651	-	Q2518	-	215496	-	Q6502, 03	-	215496	-
CR4132	-	176296	NTE552	Q2601	-	215495	-	Q6504	-	215495	-
CR4133	-	164717	NTE519	Q2602	-	215496	-	Q8101, 02	-	215496	-
CR4201	-	164717	NTE519	Q2603	-	215495	-	Q8103 Thru	-	-	-
CR4303, 51	-	164717	NTE519	Q2604, 05	-	215496	-	Q8106	-	215495	-
CR4401	-	227291	-	Q2701	-	215496	-	Q8201, 02, 04	-	215495	-
CR4402	-	164589	NTE580	Q2801	-	215495	-	Q8205 Thru	-	-	-
# CR4403, 04	-	176296	NTE552	Q2802	-	215496	-	Q8209	-	215496	-
CR4405, 06	-	176296	NTE552	Q2803	-	215495	-	Q8302	-	215496	-
CR4408	-	140971	NTE558	Q2901	-	215496	-	Q8350, 51	-	215495	-
CR4501	-	147015	NTE125	Q2902	-	215495	-	Q8401	-	215495	-
CR4502	-	164717	NTE519	Q2903, 04	-	215496	-	U501	-	215533	-
CR4601 Thru	-	-	-	Q2905	-	215495	-	U701	-	227007	-
CR4604	-	147015	NTE125	Q2906, 07	-	215496	-	U1402	-	227345	-
CR4605, 11	-	164717	NTE519	Q2908	-	215495	-	U1403, 04, 05	-	223806	-
CR4612	-	215488	NTE136A	Q2909, 10	-	215496	-	U1406	-	227357	-

RCA
MODEL F32730SBFM1 (CHASSIS CTC179CM)

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes
U1503, 04	-	227344	-	C124	470pF 5% 50V NPO	214732	-	C2809	680pF 5% 50V NPO	220344	-
U1505	-	227342	-	C125	100pF 2% 50V NPO	227089	-	C2901	18pF 2% 50V NPO	227075	-
U1600	-	225700	-	C302	10pF 2% 50V NPO	214740	-	C2902	5pF ±.5pF 50V NPO	193917	-
U1700	-	207827	NTE710	C305	27pF 5% 50V N750	214760	-	C2903	18pF 2% 50V NPO	227075	-
U1702	-	227815	-	C306	12pF 5% 50V NPO	214027	-	C2904	5pF ±.5pF 50V NPO	193917	-
U1710	-	223806	-	C307	27pF 5% 50V NPO	197604	-	C2905	18pF 5% 50V NPO	174405	-
U1910	-	227341	NTE943M	C308	120pF 5% 50V NPO	194902	-	C2906	5pF ±.5pF 50V NPO	193917	-
U1913	-	210911	-	C309	27pF 5% 50V NPO	197604	-	C3101, 02, 03	22pF 5% 50V NPO	194903	-
# U2001	-	226967	-	C310	.75pF ±.1pF 50V NPO	227269	-	C3107, 08	33pF 5% 50V NPO	194911	-
U2501	-	226968	-	C311	27pF 5% 50V N750	214760	-	C3114	22pF 5% 50V NPO	194903	-
U2502	-	226969	-	C312	18pF 2% 50V N220	227077	-	C3119	100pF 2% 50V NPO	227089	-
U2601	-	182321	-	C313, 14	470pF 5% 50V NPO	214732	-	C3301, 03, 05	7pF ±.5pF 50V NPO	192045	-
U2602, 03	-	227354	-	C401	27pF 5% 50V NPO	197604	-	C3307	15pF 5% 50V NPO	202907	-
U3101 (3)	-	-	-	C407, 11	33pF 5% 50V NPO	194911	-	C3311	100pF 2% 50V NPO	227089	-
U3102 (3)	-	-	-	C424	100pF 5% 50V NPO	193340	-	C3323 Thru			
U3103	-	226976	-	C502, 03	10pF 2% 50V NPO	214740	-	C3326	10pF 1% 50V NPO	214740	-
U4101	-	226974	-	C505	39pF 5% 50V NPO	202905	-	C3401	.01 100v	-	-
U4102	-	227012	-	C602	100pF 5% 50V NPO	193340	-	C3506	10pF 1% 50V NPO	214740	-
U4501	-	215531	NTE1788	C605	330pF 5% 50V NPO	205227	-	# C4002	220pF 5% 50V NPO	205551	-
U4601	-	162394	NTE966	C607	22pF 5% 50V NPO	174406	-	C4003, 04	470pF 10% 120VAC	250102	-
U4701	-	223807	-	C701	1pF ±.1pF 50V NPO	227084	-	# C4006	680pF 20% 1kV	190538	-
U4801	-	200420	NTE922M	C702	2pF ±.1pF 50V NPO	227074	-	# C4007	820µF 10% 200V	190561	-
U5001	-	227396	-	C703	2pF ±.1pF 50V N750	226965	-	C4008, 09	.005 20% 120V	195697	-
U6501	-	227343	-	C704	1pF ±.1pF 50V NPO	227084	-	# C4011	680pF 10% 1kV	190538	-
U8101	-	227416	-	C705	27pF 5% 50V N750	214760	-		.22 20% 250VAC	214067	-
U8201	-	227426	-	C707	1pF ±.1pF 50V NPO	227084	-		.1 20% 125VAC	229322	-
U8202	-	204280	-	C708	3pF ±.1pF 50V NPO	227088	-	C4110, 13, 18	470pF 10% 500V NPO	227050	-
U8203	-	227425	-	C709	68pF 10% 50V NPO	193339	-	C4123	220pF 5% 50V NPO	205551	-
U8204	-	215528	-	C710	3pF ±.1pF 50V NPO	227088	-	# C4126	470pF 10% 500V	102230	-
U8301	-	227415	-	C711	1pF ±.1pF 50V NPO	227084	-	# C4127	.0082 5% 600V	214070	-
U8302	-	227843	-	C712	3pF ±.1pF 50V NPO	227088	-	C4128, 33	470pF 10% 500V NPO	227050	-
U8350	-	215534	-	C1428, 29	10pF 5% 50V NPO	214740	-	C4142, 46	470pF 10% 500V NPO	227050	-
MAIN TUNER				C1445, 46	1µF 20% 100V NP	218513	-	# C4147	470pF 10% 500V	102230	-
CR101	-	215493	-	C1529, 38	10pF 5% 50V NPO	214740	-	C4199	470pF 10% 500V NPO	227050	-
CR102	-	211863	-	C1558, 59	10pF 5% 50V NPO	214740	-	C4301	10pF 5% 50V NPO	174402	-
CR103	-	215493	-	C1560, 61	10µF 20% 16V NP	227017	-	C4306	470pF 10% 500V NPO	227050	-
CR104	-	227051	-	C1562, 63	4.7µF 20% 35V NP	224269	-	C4307	100pF 5% 50V NPO	193340	-
CR105	-	211863	-	C1601, 08	4.7µF 20% 35V NP	224269	-	C4310	470pF 5% 50V NPO	214732	-
CR106, 07	-	215493	-	C1610, 14	4.7µF 20% 16V NP	228341	-	C4352	47pF 5% 50V NPO	210689	-
CR108	-	211863	-	C1621, 22	10pF 5% 50V NPO	214740	-	# C4402	470pF 5% 2kV	227068	-
CR109 Thru	-			C1713	180pF 5% 50V NPO	190543	-	# C4403	.0186 1.6kV	227021	-
CR113	-	215493	-	C1724	220pF 5% 50V NPO	205551	-	# C4405	.056 5% 600V	-	-
CR301	-	215493	-	C1736, 37	47pF 5% 50V NPO	210689	-		.056 5% 400V	200149	-
CR303, 04, 05	-	215492	-	C1773, 77	10µF 20% 16V NP	227017	-	# C4407	.074 5% 250V	227080	-
CR306	-	215493	-	C1965, 66	47µF 20% 10V NP	227350	-	C4408	10µF 50V NP	227053	-
CR307	-	227082	-	C2306	.01 10% 50V	215555	-	# C4411, 12	.056 10% 250V	146158	-
CR501	-	215493	-		150pF 5% 50V NPO	181091	-	# C4415	680pF 5% 2kV	227069	-
CR601, 02	-	227051	-	C2310	470pF 5% 50V NPO	214732	-	# C4416	470pF 10% 500V	102230	-
CR701	-	215492	-	C2314	.01 5% 50V	215555	-	# C4722A, 27	.0028 1.6kV	227378	-
CR702	-	211863	-		150pF 5% 50V	181091	-	C4730	180pF 5% 2kV	227375	-
CR703	-	215493	-	C2503	220pF 5% 50V NPO	205551	-	# C4759	.0022 20% 2kV	227078	-
CR803	-	215493	-	C2506	18pF 2% 50V NPO	227075	-	C4808	470pF 5% 50V NPO	214732	-
Q101	-	226973	-	C2507	6pF ±.25pF 50V NPO	227250	-	C4811	100pF 2% 50V NPO	227089	-
Q301	-	227008	-	C2516	27pF 5% 50V NPO	197604	-	C4812	100pF 2% 50V NPO	227089	-
Q501	-	219028	-	C2519, 20	10pF 5% 50V NPO	214740	-		220pF 2% 50V NPO	205551	-
Q502	-	215495	-	C2522	220pF 5% 50V NPO	205551	-	C5003	.0033 10% 3kV	226300	-
Q503	-	215496	-	C2528	10µF 20% 16V NP	227017	-	C5011, 12, 13	68pF 5% 50V NPO	145676	-
Q504	-	215495	-	C2530	330pF 5% 50V NPO	205227	-	C5015, 17, 19	150pF 5% 50V NPO	214032	-
Q505 Thru	-			C2535, 36	10pF 5% 50V NPO	214740	-	C5021, 22, 23	56pF 5% 50V NPO	214741	-
Q508	-	219028	-	C2539	12pF 5% 50V NPO	214027	-	C5204, 06	330pF 10% 50V NPO	195922	-
Q601	-	226981	-	C2541	300pF 5% 50V NPO	220154	-	C5208	100pF 5% 500V NPO	227407	-
Q802	-	219028	-	C2601	82pF 5% 50V NPO	192049	-	C6505	39pF 5% 50V NPO	202905	-
Q3801, 02	-	215495	-	C2602	43pF 5% 50V NPO	214029	-	C6519, 20	10pF 5% 50V NPO	214740	-
U701	-	227007	-	C2604	33pF 5% 50V NPO	194911	-	C6522	82pF 5% 50V NPO	192049	-
U501	-	215533	-	C2614	200pF 5% 50V NPO	218986	-	C8112	220pF 5% 50V NPO	205551	-
U3801	-	215534	-	C2615	22pF 5% 50V NPO	194903	-	C8115	1µF 20% 100V NP	218513	-
				C2616	8.2pF 2% 50V NPO	227360	-	C8201	10pF 5% 50V NPO	174402	-
				C2617	36pF 5% 50V NPO	194911	-	C8202	10pF 5% 50V NPO	214740	-
				C2618	5.6pF .25pF NPO	227352	-	C8203	10pF 5% 50V NPO	174402	-
				C2714	56pF 5% 50V NPO	190542	-	C8206	100pF 5% 50V NPO	193340	-
				C2715	.0015 10% 50V	197609	-	C8209	39pF 5% 50V NPO	202905	-
					100pF 5% 50V NPO	193340	-	C8210	15pF 5% 50V NPO	202907	-
				C2716, 17	10pF 5% 50V NPO	214740	-	C8221	33pF 5% 50V NPO	194911	-
				C2801	15pF 5% 50V NPO	202907	-	C8224	27pF 5% 50V NPO	197604	-
				C2804	18pF 2% 50V NPO	227075	-	C8225	10pF 5% 50V NPO	214740	-
Item No.	Function/RatingMfr.	Part No.	Notes								
C104	330pF 5% 50V NPO	205227	-								
C110	39pF 5% 50V NPO	181090	-								
C115	150pF 5% 50V NPO	214032	-								
C117	1.5pF ±.1pF 50V NPO	223146	-								
C118	180pF 5% 50V NPO	211039	-								

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Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes
C8226	56pF 5% 50V NPO	214741	-	L704	-	226996	-	R609	51K 2% 1/10W	205365	-
C8227	560pF 5% 50V NPO	200139	-	L1401, 02	100µH	160186	-	R701	7500 2% 1/10W	205348	-
C8230	27pF 5% 50V NPO	197604	-	L1701	100µH	160186	-	R704, 06	51K 2% 1/10W	205365	-
C8231	10pF 5% 50V NPO	214740	-	L1702	120µH	227813	-	R708	1200 2% 1/10W	194920	-
C8238, 42	100pF 5% 50V NPO	193340	-	L1703	100µH	160186	-	# R1403, 05	2200 2% 1/4W Nonflammable		829222
C8243	56pF 5% 50V NPO	214741	-	L2201	-	227052	-	# R1406, 08, 10	2200 2% 1/4W Nonflammable		829222
C8248	470pF 5% 50V NPO	214732	-	L2301	2.2µH	197616	-	# R1422	100 5% 1/4W	829110	-
C8249	220pF 5% 50V NPO	178188	-	L2302	VCO	227070	-	# R1429, 31	1000 5% 1/4W	108865	-
C8301, 02	56pF 5% 50V NPO	190542	-	L2303, 04	1µH	195709	-	# R1441	100 5% 1/4W	829110	-
C8307, 08, 10	10pF 5% 50V NPO	214740	-	L2305	10µH	175409	-	# R1493, 94	1000 5% 1/4W	108865	-
CF2201	Filter	195702	-	L2501	100µH	160186	-	# R1558	100 5% 1/4W	829110	-
CF8101	Filter	181125	-	L2502	82µH	215503	-	R1601	43.2K 1% 1/10W	225704	-
CF8102	Filter	195702	-	L2503	12µH	210687	-	R1602	61.9K 1% 1/10W	225705	-
DL2501	Delay Line	227063	-	L2504	82µH	215503	-	R1605	10 2% 1/10W	205308	-
DL2601	Delay Line	223169	-	L2505, 06	10µH	161243	-	R1606	3300 2% 1/10W	195938	-
# DY1 (4)	Yoke	-	Horiz .95mH, Vert 25Mh	L2507	68µH	149167	-	R1607	3000 2% 1/10W	194917	-
E706	Jack	RF Input	227055	L2601	33µH	200161	-	R1610	22K 2% 1/10W	205357	-
# F4001	Fuse	175425	5A, 125V	L2602	10µH	161243	-	R1611, 12	470 2% 1/10W	194926	-
FB4101, 02	Ferrite Bead	154042	-	L2603	18µH	223800	-	# R1613	13 5% 1/4W	829013	-
FB4103	Ferrite Bead	227067	-	L2604	100µH	161243	-	# R1780	100 5% 1/4W	829110	-
FB4104 Thru				L2605, 06	56µH	196107	-	R1911	6800 2% 1/10W	194916	-
FB4115	Ferrite Bead	154042	-	L2607	68µH	149167	-	R1912	10K 2% 1/10W	195937	-
FB4116	Ferrite Bead	152103	-	L2608	10µH	161243	-	# R1947	33 5% 3W	227358	-
FB4401	Ferrite Bead	229324	-	L2609	100µH	160186	-	# R1955, 58	4.7 5% 1/4W	200197	-
FB4501	Ferrite Bead	-	-	L2701, 02	10µH	175409	-	R2301	820 2% 1/10W	192088	-
FB4701, 02	Ferrite Bead	154042	-	L2705	47µH	195713	-	R2304	150 2% 1/10W	205334	-
FB5201, 02	Ferrite Bead	226467	-	L2901, 02, 03	10µH	161243	-	R2310, 11	1000 2% 1/10W	197638	-
FB5203	Ferrite Bead	227410	-	L2904	10µH	175409	-	R2315, 16	100K 2% 1/10W	192094	-
FB8201 Thru				L3101	10µH	161243	-	R2318	15K 2% 1/8W	192835	-
FB8206	Ferrite Bead	226467	-	L3301, 02, 03	82µH	227095	-	R2319	220 2% 1/10W	192089	-
FL101	Filter	181470	High Pass	L3304	56µH	227093	-	R2320	470 2% 1/10W	194926	-
IR3401	Receiver	218379	IR	# L4001	Line Filter	227014	-	R2321	470 2% 1/8W	182628	-
J1	Jack	227334	Headphone	# L4002	Line Filter	227283	-	R2501, 02	470 2% 1/10W	194926	-
J2	Jack	227334	A/V Input	L4101, 02, 03	2.2µH	143893	-	R2504	220 2% 1/10W	192089	-
J1404	Jack	227816	Audio 1 Left Input	L4104, 05	27µH	190017	-	R2505	6200 2% 1/10W	205347	-
J1405	Jack	227817	Audio 1 Right Input	L4201 (5)	Degaussing	214078	-	R2506	1800 2% 1/10W	197903	-
J1406	Jack	227816	Audio 2 Left Input	L4201 (6)	Degaussing	214167	-	R2509, 10	5100 2% 1/10W	205345	-
J1407	Jack	227817	Audio 2 Right Input	L4202	Field Neutralization	225821	-	R2515	680 2% 1/4W	175312	-
J1410	Jack	227816	HI-FI Left Output	L4401	2.2µH	190480	-	R2516	1000 2% 1/10W	197638	-
J1414	Jack	227816	Selected Left Output	# L4402	17.5µH	210895	-	R2517	120 2% 1/10W	205332	-
J1415	Jack	227817	Selected Right Output	# L4403	320µH	227059	-	R2520	7500 2% 1/10W	205348	-
J1417	Jack	227817	HI-FI Right Output	# L4404	140µH	227044	-	R2521	3900 2% 1/10W	197907	-
J6501	Jack	227818	Video Input 1	# L4405	17.5µH	226458	-	R2523	560 2% 1/10W	205338	-
J6502	Jack	227818	Video Input 2	L5001, 02, 03	22µH	195712	-	R2524	270 2% 1/10W	197623	-
J6503	Jack	214607	S-Video Input	# L5004, 05	10µH	175409	-	R2525	680 2% 1/10W	195939	-
J6504	Jack	227818	Select Video Output	# L5006, 07, 08	22µH	195712	-	R2526	270 2% 1/10W	197623	-
# K4201	Relay	190490	Degaussing	L6501, 02	100µH	160186	-	R2527	470 2% 1/10W	194926	-
# KS5001	Socket	228946	CRT	L8101, 02	1µH	195709	-	R2528	6800 2% 1/10W	194916	-
L102	-	227003	-	L8103	15µH	197613	-	R2534	6800 2% 1/10W	194916	-
L103	-	227005	-	L8104	1.8µH	227422	-	R2535	8200 2% 1/10W	205349	-
L104	-	226992	-	L8105	27µH	190017	-	R2536	6800 2% 1/10W	194916	-
L105	-	227006	-	L8106	100µH	160186	-	R2538	820 2% 1/10W	192088	-
L106	3.9µH	200559	-	L8201	22µH	195712	-	R2539	620 2% 1/10W	205339	-
L107	-	226987	-	L8202	47µH	190729	-	R2541	8200 2% 1/10W	205349	-
L108	-	226998	-	L8203	15µH	197613	-	R2542	10 2% 1/10W	205308	-
L109	-	226993	-	L8204	68µH	149167	-	R2543	51K 2% 1/8W	181062	-
L110	-	226994	-	# P4001	Line Cord	227065	AC, Polarized	R2544	7500 2% 1/10W	192097	-
L111	-	226998	-	R102	1200 2% 1/10W	194920	-		4700 2% 1/10W	-	-
L112	-	226995	-	R107	470K 2% 1/10W	205381	-	R2545	8200 2% 1/4W	175366	-
L113	-	227000	-	R109	150 2% 1/10W	205334	-	R2546	27K 2% 1/8W	193061	-
L114	-	226996	-	R112, 14	1200 2% 1/10W	194920	-	R2547	22K 2% 1/10W	205357	-
L115	-	227000	-	R303	3000 2% 1/10W	194917	-	R2548	7500 2% 1/10W	205348	-
L301	-	227427	-	R306	82K 2% 1/10W	197906	-	R2549	33K 2% 1/8W	176813	-
L302	-	226988	-	R307	51K 2% 1/10W	205365	-	R2550	10K 2% 1/10W	195937	-
L303	-	227005	-	R309, 17	91 2% 1/10W	205330	-	R2552	15K 2% 1/10W	205354	-
L304	-	226983	-	R318	470 2% 1/10W	194926	-	# R2555	100 5% 1/4W	829110	-
L305	-	226984	-	R505	51K 2% 1/10W	205365	-	R2559	1000 2% 1/10W	197638	-
L306	-	226990	-	R509	1M 1% 1/10W	215216	-	# R2560	2 5% 1/4W	181419	-
L307	-	226991	-	R510	191K 1% 1/10W	215214	-	R2561	27K 2% 1/10W	205245	-
L308	-	226985	-	R511	37.4K 1% 1/10W	215215	-	R2562	36K 2% 1/10W	205361	-
L601, 02	-	226999	-	R512	20K 2% 1/10W	197904	-		20K 2% 1/10W	-	-
L603	-	227002	-	R514	6800 2% 1/10W	194916	-	R2563	1000 2% 1/8W	190462	-
L604	-	227001	-	R515	220K 2% 1/10W	192093	-	R2567	6200 2% 1/10W	205347	-
L701, 02	-	226986	-	R516	6800 2% 1/10W	194916	-	R2568	8200 5% 1/4W	175366	-
L703	-	226989	-	R605	470 2% 1/10W	194926	-		6200 2% 1/4W	179316	-

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Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes
R2569	5100 2% 1/10W	205345	-	R3105	1000 2% 1/8W	190462	-	R4723 (1)	100K 2% 1/10W	192094	-
R2570	5100 2% 1/10W	205344	-	R3120	24K 2% 1/10W	205358	-	R4723 (2)	120K 2% 1/10W	205370	-
	4300 2% 1/10W	205345	-	R3121	1000 2% 1/8W	190462	-	R4723A	20K 2% 1/4W	175351	-
R2571, 72	5100 2% 1/10W	205345	-	R3122	100 2% 1/10W	218508	-	R4724	150K 2% 1/10W	195931	-
R2573	3600 2% 1/10W	205343	-		470 2% 1/10W	194926	-	R4726A	6800 2% 1/2W	223353	-
R2576	3000 2% 1/10W	194917	-	R3143	1000 2% 1/8W	190462	-	# R4726	910 5% 1/2W	830191	-
R2580	27K 2% 1/10W	205245	-	R3201	1000 2% 1/8W	190462	-	R4727	5100 2% 1/10W	205345	-
R2584	330 2% 1/10W	195929	-	R3212	33K 2% 1/8W	176813	-	R4728	10K 2% 1/10W	195937	-
R2586	510 2% 1/10W	202585	-	R3302, 06, 10	360 2% 1/10W	205337	-	R4729	5100 2% 1/10W	205345	-
R2587	270 2% 1/10W	197623	-	R3312	1500 2% 1/10W	197628	-	R4730	5100 2% 1/4W	175417	-
R2588	510 2% 1/10W	202585	-	R3316	5100 2% 1/10W	205345	-	R4731 (1)	510 2% 1/10W	202585	-
R2589	2200 2% 1/10W	192096	-	R3328, 29	10 2% 1/10W	205308	-	R4731 (2)	750 2% 1/10W	202914	-
R2590	330 2% 1/10W	195929	-	R3330	1000 2% 1/10W	197638	-	R4732A	1200 2% 1/10W	194920	-
R2591	470 2% 1/8W	182628	-	R3331, 33	10 2% 1/10W	205308	-	R4733A	6200 2% 1/10W	205347	-
R2592	820 2% 1/10W	192088	-	R3338, 53	1000 2% 1/8W	190462	-	# R4734	10K 10% 1/2W	227374	-
R2595	1000 2% 1/10W	197638	-	R3358	10 2% 1/10W	205308	-	# R4738	30 5% 3W Wirewound	227376	-
R2596	15K 2% 1/10W	205354	-	R3359	1000 2% 1/8W	190462	-	R4739	3900 2% 1/10W	197907	-
R2601	1600 2% 1/4W	175311	-	R3365, 67	150 2% 1/10W	205334	-	# R4740	910 5% 1/4W	829191	-
R2602	2000 2% 1/10W	205341	-	R3369	1000 2% 1/8W	190462	-	# R4785	100K 5% 1/2W	227079	-
R2603	820 2% 1/10W	192088	-	R3372	470 2% 1/10W	194926	-	# R4790	18K 5% 1/2W	830318	-
R2608	Comb Depth	181106	-	R3501	470K 2% 1/10W	205381	-	R4791	1000 1% 1/4W	179753	-
R2610	732 1% 1/10W	227361	-	R3503	20K 2% 1/10W	197904	-	R4805	39.2K 1% 1/4W	190469	-
R2611	910 2% 1/10W	197627	-	R3509	470K 2% 1/10W	205381	-	R4806	49.9K 1% 1/4W	227085	-
R2631	6200 2% 1/4W	179316	-	R3801	26.1K 1% 1/8W	215218	-	R4807	22K 2% 1/10W	205357	-
R2632	4700 2% 1/4W	175413	-	R3803	26.1K 1% 1/8W	215218	-	R4811	240K 2% 1/10W	205374	-
R2714	300 2% 1/10W	205336	-	R3805	26.1K 1% 1/8W	215218	-	# R4814	100 5% 1/2W	176796	-
R2715	110K 2% 1/10W	205369	-	# R4001	1.8 10% 15W Wirewound	200444	-	R4901	2200 2% 1/2W	227267	-
	100K 2% 1/10W	192094	-	# R4002	2.7M 10% 1/2W	217662	-	# R4903	22 2% 1/4W	175357	-
R2716	300 2% 1/10W	205336	-	# R4003	68K 5% 1W	179784	-	# R4905 (1)	38.3K 1% 1/4W	220197	-
	62 5% 1/10W	194919	-	# R4103	1.8 5% 2W	227086	-	# R4905 (2)	40.2K 1% 1/4W	219026	-
R2752	470 2% 1/10W	194926	-	R4105	470 2% 1/10W	194926	-	# R4907	26.7K 1% 1/4W	196081	-
R2755	470K 2% 1/10W	205381	-	R4110	1000 2% 1/8W	190462	-	# R4909	1500 2% 1/10W	197628	-
R2756	240K 2% 1/10W	205374	-	R4112	1740 1% 1/4W	227037	-	# R4912	150K XRP Level	207883	-
R2801	1200 2% 1/10W	194920	-	R4113	300 Regulator B+	190525	-	# R5004, 05, 06	1000 10% 1/2W	502210	-
R2802	470 2% 1/10W	194926	-	# R4114	45.3K 1% 1/4W	176506	-	# R5007, 08, 09	12K 5% 3W	227393	-
R2803	1000 2% 1/10W	197638	-	R4119	20K 2% 1/10W	197904	-	# R5025, 27, 29	100 5% 1/4W	829110	-
R2804	16K 2% 1/10W	205355	-	# R4121	56 5% 1W	176910	-	# R5034	100 5% 1W	176673	-
R2805	220 2% 1/10W	192089	-	# R4122	3.9 5% 7W Wirewound	179813	-	# R5037	2200 20% 1/2W	502222	-
R2806	1200 2% 1/10W	194920	-	# R4127	8.2 5% 1/2W	120595	-	# R5038, 39, 40	100 5% 1/4W	829110	-
R2807	1000 2% 1/10W	197638	-	# R4129	330 5% 7W Wirewound	200185	-	# R5044, 45, 46	47 5% 1/4W	829047	-
R2809	390 2% 1/10W	192102	-	# R4131	220 5% 1W	190555	-	R5048	9100 2% 1/10W	205350	-
R2810	1100 2% 1/10W	202586	-	# R4132	22 5% 2W	179786	-	R5049	910 2% 1/10W	197627	-
R2811	6200 2% 1/10W	205347	-	# R4133	53.6K 1% 1/4W	200189	-	R5054, 55, 58	240 2% 1/10W	197624	-
R2813	7500 2% 1/10W	205348	-	# R4137	2.7 5% 2W	227821	-	# R5089	1000 10% 1/2W	502210	-
R2815	390 2% 1/10W	192102	-	# R4140	1 5% 1W	183140	-	R5201	330 2% 1/8W	181488	-
R2817	1000 2% 1/10W	197638	-	# R4141	10 5% 1W	175781	-	R5202	1500 2% 1/10W	197628	-
R2901	1500 2% 1/10W	197628	-	R4197	220 2% 1/10W	192089	-	R5203	270 2% 1/8W	181481	-
R2904	360 2% 1/4W	175567	-	R4305	220 2% 1/4W	175324	-	R5204	330 2% 1/8W	181488	-
R2905	1500 2% 1/10W	197628	-	R4306	82 2% 1/10W	205329	-	R5205	68 2% 1/10W	205328	-
R2906	240 2% 1/10W	197624	-	# R4307	75 5% 3W Wirewound	227090	-	R5208	1000 2% 1/8W	190462	-
R2907	150 2% 1/10W	205334	-	R4358	1500 2% 1/10W	197628	-	# R5213	1000 2% 1/2W	829210	-
	110 2% 1/10W	205331	-	R4359	1000 2% 1/8W	190462	-	R5214	100K 2% 1/2W	227408	-
R2908	220 2% 1/8W	181492	-	# R4402	1000 Horizontal Centering	227011	-	# R5215	430 5% 1W	831143	-
	180 2% 1/8W	181491	-	# R4403	820 5% 1W	175349	-	# R5216	27 5% 1/4W	829027	-
R2911	360 2% 1/10W	205337	-	# R4407	2200 5% 3W	190559	-	# R5217	220 5% 2W	175310	-
R2912	1500 2% 1/8W	181482	-	# R4409	10K 2% 1/4W	175317	-	R5219	100K 2% 1/2W	227408	-
R2913	240 2% 1/10W	197624	-	# R4410	3300 2% 1/4W	175352	-	R5220	1000 2% 1/10W	197638	-
R2914	150 2% 1/10W	205334	-	R4412	56K 2% 1/10W	192095	-	# R5221	27 5% 1W	210480	-
	110 2% 1/10W	205331	-	R4413	3900 2% 1/10W	197907	-	R5222	1500 2% 1/10W	197628	-
R2915	220 2% 1/8W	181492	-	R4414	2200 2% 1/10W	192096	-	# R5224, 25	5.6 5% 1/2W	227403	-
	180 2% 1/8W	181491	-	R4416	47K 2% 1/4W	175322	-	# R6206	220 2% 1/2W	830122	-
R2918	360 2% 1/10W	205337	-	R4503	15K 2% 1/10W	205354	-	R6208	820 2% 1/2W	830182	-
R2919	1500 2% 1/10W	197628	-	R4504	5100 2% 1/10W	205345	-	# R6209	47 2% 1/2W	830047	-
R2920	240 2% 1/10W	197624	-	# R4507	1.5 5% 1W	178619	-	# R6502, 05, 08	51 5% 1/4W	175414	-
R2921	150 2% 1/10W	205334	-	# R4508, 09	180 5% 3W	227094	-	# R6526	68 5% 1/4W	829068	-
	110 2% 1/10W	205331	-	R4510	1600 2% 1/2W	179253	-	R6528	1500 2% 1/10W	197628	-
R2922	220 2% 1/10W	192089	-	# R4511	1 5% 2W Wirewound	145384	-	R6529	620 2% 1/10W	205339	-
	180 2% 1/10W	194918	-	R4512	2000 2% 1/2W	227252	-	R8101	560 2% 1/10W	205338	-
R2926	910 2% 1/10W	197627	-	# R4700 (1)	Focus/Screen	228910	-	R8102	150 2% 1/10W	205334	-
R2927	1500 2% 1/10W	197628	-	# R4700 (2)	Focus/Screen	229881	-	R8103	1000 2% 1/8W	190462	-
R2929	910 2% 1/10W	197627	-	# R4703 (1)	2.2 5% 3W Wirewound	227091	-	# R8107	1 5% 1/4W	829A10	-
R2930	1500 2% 1/8W	181482	-	# R4703 (2)	2.7 5% 3W Wirewound	229882	-	R8108	330 2% 1/10W	195929	-
R2932	910 2% 1/10W	197627	-	# R4717	100 5% 1/4W	829110	-	R8109	1000 2% 1/10W	197638	-
R2933	1500 2% 1/10W	197628	-	R4718, 19	1000 2% 1/10W	197638	-	R8110	1000 1% 1/8W	220317	-
R3103	20K 2% 1/10W	197904	-	R4720A	1000 2% 1/10W	197638	-	R8111	1000 1% 1/10W	214143	-

PARTS LIST continued

Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes	Item No.	Function/RatingMfr.	Part No.	Notes
R8114	100K 2% 1/10W	192094	-		Button (10)	228450	Power	L303	-	227005	-
R8125	1600 2% 1/10W	197625	-		Fuse Holder	176642	For F4001 (2 Used)	L304	-	226983	-
R8126	1300 2% 1/10W	205340	-		PC Board	228452	A/V Input	L305	-	226984	-
R8132	330 2% 1/10W	195929	-		PC Board	228908	CRT	L306	-	226990	-
R8139	150 2% 1/10W	205334	-		PC Board	226787	Dynamic Focus	L307	-	226991	-
R8201	15K 2% 1/10W	205354	-		PC Board	226784	Front Panel	L308	-	226985	-
R8202	5600 2% 1/10W	205346	-		PC Board	227333	Headphone	L601, 02	-	226999	-
# R8205	2.4 5% 1W	176887	-		PC Board	227809	IN/OUT	L603	-	227002	-
R8231	330 2% 1/8W	181488	-		PC Board	226788	PIP	L604	-	227001	-
R8232	1000 2% 1/10W	197638	-		Transmitter	221115	Remote, CRK70A1	L701, 02	-	226986	-
R8240	220 2% 1/10W	192089	-	MAIN TUNER				L703	-	226989	-
R8262	1800 2% 1/10W	197903	-	C101	150pF 5% 50V NPO	214032	-	L704	-	226996	-
R8303	22K 2% 1/8W	174367	-	C104	330pF 5% 50V NPO	205227	-	L801	-	226999	-
R8350	26.1K 1% 1/8W	215218	-	C110	39pF 5% 50V NPO	181090	-	R101	300 2% 1/10W	205336	-
R8351	10K 1% 1/10W	215217	-	C115	150pF 5% 50V NPO	214032	-	R102	1200 2% 1/10W	194920	-
R8352	26.1K 1% 1/8W	215218	-	C117	1.5pF ±.1pF 50V NPO	223146	-	R107	470K 2% 1/10W	205381	-
R8353	10K 1% 1/8W	220130	-	C118	180pF 5% 50V NPO	211039	-	R109	150 2% 1/10W	205334	-
R8354	26.1K 1% 1/8W	215218	-	# C122	.001 10% 50V	192060	-	R112, 14	1200 2% 1/10W	194920	-
R8355	10K 1% 1/8W	220130	-	C124	47pF 5% 50V NPO	-	-	R303	3000 2% 1/8W	194917	-
R8357	14.3K 1% 1/10W	215219	-		68pF 5% 50V NPO	193339	-	R306	82K 2% 1/10W	197906	-
R8358	453 1% 1/10W	217317	-	C125	100pF 2% 50V NPO	227089	-	R307	51K 2% 1/10W	205365	-
R8360	15.8K 1% 1/10W	215199	-	C302	10pF 5% 50V NPO	214740	-	R309, 17	91 2% 1/10W	205330	-
R8361	100K 1% 1/10W	215221	-	C305	27pF 5% 50V N750	214760	-	R318	470 2% 1/10W	194926	-
R8365	15.8K 1% 1/10W	215199	-	C306	12pF 5% 50V NPO	214027	-	R505	51K 2% 1/10W	205365	-
R8366	100K 1% 1/10W	215221	-	C307	27pF 5% 50V NPO	197604	-	R509	1M 1% 1/10W	215216	-
R8370	15.8K 1% 1/10W	215199	-	C308	120pF 5% 50V NPO	194902	-	R510	191K 1% 1/10W	215214	-
R8371	100K 1% 1/10W	215221	-	C309	27pF 5% 50V NPO	197604	-	R511	37.4K 1% 1/10W	215215	-
RN4501	Resistor Network	215499	-	C310	.75pF ±.1pF 50V NPO	227269	-	R512	20K 2% 1/10W	197904	-
# RT4201	PTC Thermistor	207768	-	C311	27pF 5% 50V N750	214760	-	R514	6800 2% 1/10W	194916	-
# SC1900	Connector	227346	Rear External Speakers	C312	18pF 2% 50V N220	227077	-	R515	220K 2% 1/10W	192093	-
# SC1904	Connector	227346	Front External Speakers	C313, 14	470pF 5% 50V NPO	214732	-	R516	6800 2% 1/10W	194916	-
SF2301	Filter	227024	SAW	C401	27pF 5% 50V NPO	197604	-	R605	470 2% 1/10W	194926	-
SF2302	Filter	227023	SAW	C407, 11	33pF 5% 50V NPO	194911	-	R609	51K 2% 1/10W	205365	-
SF8101	Filter	227024	SAW	C424	100pF 5% 50V NPO	193340	-	R701	7500 2% 1/10W	205348	-
SF8102	Filter	227023	SAW	C501	10pF 5% 50V NPO	214740	-	R704, 06	51K 2% 1/10W	205365	-
SP1, 2 (7)	Speaker	226332	3 1/2", 8 Ohms, 5W	C502	.01 10% 50V	215555	-	R708	1200 2% 1/10W	194920	-
SP1, 2 (8)	Speaker	229647	3 1/8" X 6 1/4" 8 Ohms, 15W	C505	10pF 5% 50V NPO	214740	-	R808	10 2% 1/10W	205308	-
SVM	-	228459	-	C602	39pF 5% 50V NPO	202905	-	R3802	10K 1% 1/10W	215217	-
SW1900	Switch	227353	Internal/External Speakers	C606	100pF 5% 50V NPO	193340	-	R3804	10K 1% 1/10W	215217	-
SW3410	Switch	207842	Channel Up	C605	330pF 5% 50V NPO	205227	-	R3806	10K 1% 1/10W	215217	-
SW3411	Switch	205258	Power	C607	22pF 5% 50V NPO	174406	-	R3807	14.3K 1% 1/10W	215219	-
SW3420	Switch	207842	Channel Down	C701	1pF ±.1pF 50V NPO	227084	-	R3808	453 1% 1/10W	217317	-
SW3421	Switch	207842	Volume Up	C702	2pF ±.1pF 50V NPO	227074	-	R3809	820 2% 1/10W	192088	-
SW3430	Switch	207842	Menu	C703	2pF ±.1pF 50V N750	226965	-	R3810	15.8K 1% 1/10W	215199	-
SW3431	Switch	207842	Volume Down	C704	1pF ±.1pF 50V NPO	227084	-	R3811	100K 1% 1/10W	215221	-
SW4401	Switch	190488	Horizontal Centering	C705	27pF 5% 50V N750	214760	-	R3812	15.8K 1% 1/10W	215199	-
SW6201	Switch	205225	Strength	C707	1pF ±.1pF 50V NPO	227084	-	R3813	100K 1% 1/10W	215221	-
SW6202	Switch	211982	Polarity	C708	3pF ±.1pF 50V NPO	227088	-	R3814	15.8K 1% 1/10W	215199	-
# T4101	SMT	227272	-	C709	68pF 10% 50V NPO	193339	-	R3815	100K 1% 1/10W	215221	-
# T4102	Current Sense	227016	-	C710	3pF ±.1pF 50V NPO	227088	-	SW801	Relay	227020	Antenna A/B
# T4103	-	227013	-	C711	1pF ±.1pF 50V NPO	227084	-	T801	RF Splitter	227015	-
# T4301	Horizontal Drive	227018	-	C712	3pF ±.1pF 50V NPO	227088	-	Y501	Crystal	182839	4MHz
# T4401 (2)(4)	Horizontal Output	227271	-	C809	68pF 5% 50V NPO	174410	-				
# T4401 (3)(4)	Horizontal Output	229880	-	E702	Jack	-	RF Output	# For SAFETY use only equivalent replacement part.			
# T4601	Standby	225708	-	FL101	Filter	181470	High Pass	* Lead configuration may vary from original.			
# T4701	-	210878	-	J801	Jack	-	Antenna A	% Use insulating hardware supplied with replacement.			
# V101 (1)	CRT	A80AEJ159	A80AEJ15X09	J802	Jack	-	Antenna B	(1) Used in chassis CTC179CK.			
# V101 (2)	CRT	A89AEJ159	A89AEJ15X09	L101	-	226982	-	(2) Used in chassis CTC179CM.			
Y501	Crystal	182839	4MHz	L102	-	227003	-	(3) Part of EPROM kit Part No. 229781 (Marked -97H or before) or Part No. 229782 (Marked -97I or later).			
Y2801	Crystal	161235	3.58MHz	L103	-	227005	-	(4) Screen and focus controls are part of T4401.			
Y3101	Crystal	217322	8MHz	L104	-	226992	-	(5) Used in 32" models.			
Y4190	Resonator	-	507kHz	L105	-	227006	-	(6) Used in 35" models.			
	Resonator	227064	507.5kHz	L106	3.9µH	200559	-	(7) Used in models F32730SBFM1, F32730SBJX1, F35755MBFM2, and F35755MBJX2.			
Y8101	Resonator	227417	5.71MHz	L107	-	226987	-	(8) Used in model G35831ATLM1.			
Y8201	Crystal	197652	14.318MHz	L108	-	226998	-	(9) Used in models F32730SBFM1 and F32730SBJX1.			
Y8301	Crystal	182839	4MHz	L109	-	226993	-	(10) Used in models F35755MBFM2 and F35755MBJX2.			
	Adapter	AH055	Antenna 75 To 300 Ohms	L110	-	226994	-				
	Button (8)	225801	Cap	L111	-	226998	-				
	Button (9)	229639	Cap	L112	-	226995	-				
	Button (10)	226005	Cap	L113	-	227000	-				
	Button (8)	229306	Cluster	L114	-	226996	-				
	Button (9)	229641	Cluster	L115	-	227000	-				
	Button (10)	228451	Cluster	L301	-	227427	-				
	Button (8)	225802	Power	L302	-	226988	-				
	Button (9)	229640	Power								

RCA

MODEL F32730SBFM1 (CHASSIS CTC179CM)