

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 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.

TEST JIG HOOKUP				
Function	Chek-A-Color Adapter No.	PC Board Plug No.	Chassis Pin No	Color
CRT	B239	P-Horiz	EY4409	Red
Yoke	D4160	P-Horiz	EY4413	Blue
Yoke Setting	YP3	P-Vert	P4501 1	Yellow
Comments	Focus Tap	P-Vert	P4501 4	Green

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

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A Bell Atlantic Company
2647 Waterfront Parkway East Drive, Suite 100
Indianapolis, IN 46214-2041

Printed in the United States of America 5 4 3 2 1

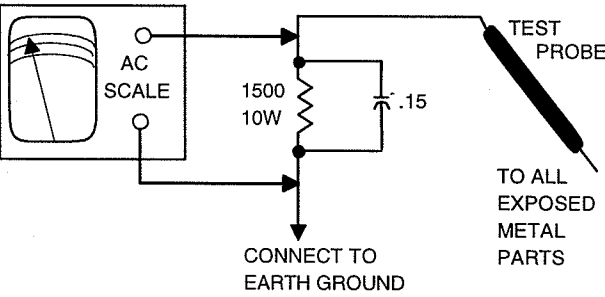
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC. Use remote transmitter to set customer controls for normal operation. Momentarily short XRP1 to XRP2. The receiver should lose raster and sound. If receiver does not lose raster and sound, the shutdown circuit should be repaired. To resume normal operation, remove AC power and wait 30 seconds, then turn the receiver on.



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PHOTOFACT® Technical Service Data

SET 4248

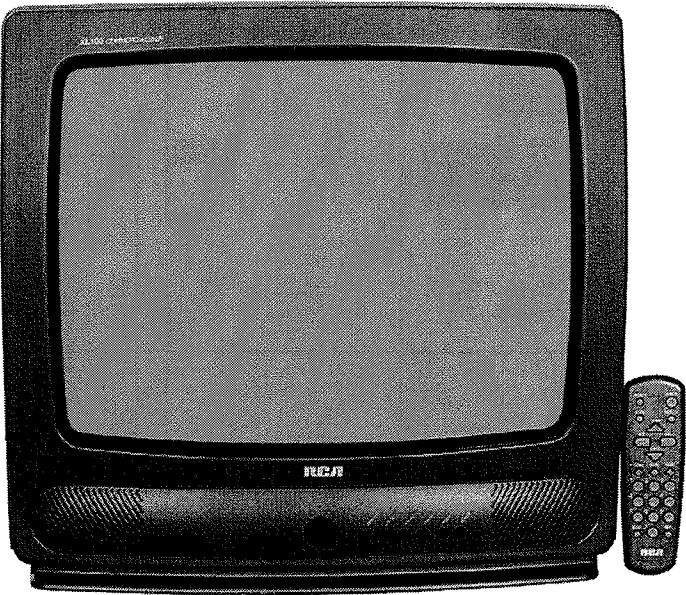
MODEL F19261TX1 (CHASSIS CTC185A4)

RCA

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RCA
Model F19261TX1 (Chassis CTC185A4)



Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes this additional model and chassis:

MODEL	CHASSIS
F19262TX1	CTC185A4



HOWARD W. SAMS & COMPANY

FEBRUARY 2000 SET 4248

For Supplier Address,
See PHOTOFACT Annual Index

TUNER CIRCUIT VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
U7301			
1	4.5V	4.5V	4.5V
2	3.1V	3.1V	3.2V
3	7.2V	7.1V	7.2V
4	3.1V	3.1V	3.2V
5	7.2V	7.2V	7.1V
6	0V	0V	0V
7	6.3V	6.3V	.2V
8	9.5V	9.5V	9.5V
9	3.4V	3.4V	3.4V
10	3.2V	3.2V	2.9V
11	3.2V	5.1V	10.0V
12	3.2V	3.2V	2.9V
13	0V	0V	0V
14	9.0V	9.0V	6.4V
15	3.5V	3.4V	3.2V
16	3.5V	3.4V	3.2V
U7401			
1	1.6V	1.6V	1.6V
2	2.6V	2.6V	2.6V
3	2.6V	2.6V	2.6V
4	34.5V	34.5V	34.5V
5	10.0V	10.0V	10.0V
6	1.7V	7.2V	6.3V
7	1.5V	5.8V	6.2V
8	.6V	7.2V	5.8V
9	5.0V	5.0V	5.0V
10	1.4V	1.4V	1.4V
11	1.4V	1.4V	1.4V
12	0V	0V	0V
13	0V	0V	0V
14	11.6V	11.6V	.3V
15	0V	0V	0V
16	0V	0V	0V
17	12.3V	.1V	.2V
18	4.9V	4.9V	4.9V
19	4.9V	4.9V	4.9V
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.			

Pin	VHF Low Band	VHF High Band	UHF Band
Q7101			
D	.5V	.5V	12.2V
G1	2.6V	2.6V	2.1V
G2	.2V	.2V	2.1V
S	0V	0V	0V
Q7102			
D	12.1V	12.1V	0V
G1	2.1V	2.1V	0V
G2	2.6V	2.6V	0V
S	0V	0V	0V
Q7402			
E	12.0V	12.0V	12.0V
B	12.3V	11.6V	11.5V
C	-12.0V	-12.2V	-12.2V
Q7403			
E	12.0V	12.0V	12.0V
B	.5V	.5V	12.2V
C	12.3V	12.3V	0V
Q7404			
E	12.0V	12.0V	12.0V
B	12.3V	12.3V	11.5V
C	.5V	.5V	12.2V
NOTE: VHF Low Band voltages taken on channel 2. VHF High Band voltages taken on channel 7. UHF Band voltages taken on channel 14.			

MISCELLANEOUS ADJUSTMENTS

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

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 23kV to 25kV.

SERVICE MENU

The following adjustment and alignment 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 0 00, and on the right the value of that parameter 00. 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. The two main groups of parameters are, the service adjustment parameters, and the tuner alignment parameters. To access and change any of the adjustments, the proper parameter pass number and value must be entered. This information is listed at the beginning of each alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen.

SERVICE MENU CHART

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0 00	Pass number for service adjustment parameters.		Must set to 76	May not advance until value is set.
0 01	Horizontal Phase	11	00 - 15	Adjust to center picture left to right.
0 02	Vertical DC	32	00 - 63	Adjust to center picture top to bottom.
0 03	Vertical S Correction	06	00 - 15	Set value to 6.
0 04	Vertical Size	64	00 - 127	Adjust for 1/4" overscan top and bottom of screen.
0 05	Red Bias	14	00 - 127	Press menu button on the TV set for setup line.
0 06	Green Bias	05	00 - 127	Press menu button on the TV set for setup line.
0 07	Blue Bias	49	00 - 127	Press menu button on the TV set for setup line.
0 08	Red Drive	41	00 - 63	Press menu button on the TV set for setup line.
0 09	Green Drive	44	00 - 63	Press menu button on the TV set for setup line.
0 10	Blue Drive	36	00 - 63	Press menu button on the TV set for setup line.
0 11	Sub Brightness	45	00 - 127	Tune in color bar signal, turn color off. Adjust to the point the black bar starts to turn gray, then decrease until it becomes black.
0 12	RF AGC	24	00 - 63	Set to the value when snow disappears from picture.
0 13	FM Level	17	00 - 31	Apply 1kHz, L+R signal. Adjust for a 333mVp-p waveform at pin 6 of U1001 (don't include carrier portion).
0 14	VCO Tuning	61	00 - 127	Adjust for 3.8V at pin 12 of U1001.
0 15	APC Detector Adjust	33	00 - 63	Short pin 11 of U1001 to ground. Adjust for 3.8V at pin 12 of U1001.
0 16	Tint Preset	60	00 - 127	Adjust waveform at the collector of Q5003 so that the second and the third peaks are of equal amplitude.
0 17	Color Preset	67	00 - 127	Adjust waveform at the collector of Q5003 so that the first and the fourth peaks are of equal amplitude.
0 18	Video level	04	00 - 07	Adjust waveform at the emitter of Q2301 for 1Vp-p.
0 19	Vertical Linearity	08	00 - 15	Adjust for best linearity.
0 20	Vertical Countdown Mode	00	00 - 03	Set value to 00.

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values. Press menu button for collapsed raster service line. Set the TV to blank raster with no video signal. Preset the red, green, and blue drive values to 32. Preset the red, green, and blue bias values to provide 120V at the collector of the respective output transistors. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance.

MISCELLANEOUS ADJUSTMENTS continued

ELECTRONIC TUNER ALIGNMENT

Use tuner alignment generator, RCA stock no. TAG001, and a VCR for signal source. Monitor IF AGC at pin 11 of U1001, and adjust for minimum voltage at each parameter. The entire Electronic Tuner Alignment procedure, once started, must be completed in its entirety.

Parameter No.	Parameter Name	Value Range	On Set Value
0 00	Pass number for tuner alignment parameters	Must set to 77	00
1 01	Ch. 2 secondary	00-62	24
1 02	Ch. 2 primary	00-62	22
1 03	Ch. 2 single	00-62	13
1 04	Ch. 6 secondary	00-62	47
1 05	Ch. 6 primary	00-62	40
1 06	Ch. 6 single	00-62	49
1 07	Ch. 98 secondary	00-62	50
1 08	Ch. 98 primary	00-62	44
1 09	Ch. 98 single	00-62	30
1 10	Ch. 15 secondary	00-62	50
1 11	Ch. 15 primary	00-62	54
1 12	Ch. 15 single	00-62	35
1 13	Ch. 17 secondary	00-62	39
1 14	Ch. 17 primary	00-62	57
1 15	Ch. 17 single	00-62	28
1 16	Ch. 18 secondary	00-62	30
1 17	Ch. 18 primary	00-62	25
1 18	Ch. 18 single	00-62	23
1 19	Ch. 9 secondary	00-62	39
1 20	Ch. 9 primary	00-62	33
1 21	Ch. 9 single	00-62	37
1 22	Ch. 29 secondary	00-62	41
1 23	Ch. 29 primary	00-62	36
1 24	Ch. 29 single	00-62	42
1 25	Ch. 39 secondary	00-62	49
1 26	Ch. 39 primary	00-62	45
1 27	Ch. 39 single	00-62	49

Parameter No.	Parameter Name	Value Range	On Set Value
1 28	Ch. 46 secondary	00-62	41
1 29	Ch. 46 primary	00-62	49
1 30	Ch. 46 single	00-62	42
1 31	Ch. 50 secondary	00-62	30
1 32	Ch. 50 primary	00-62	60
1 33	Ch. 50 single	00-62	38
1 34	Ch. 51 secondary	00-62	22
1 35	Ch. 51 primary	00-62	34
1 36	Ch. 51 single	00-62	33
1 37	Ch. 61 secondary	00-62	15
1 38	Ch. 61 primary	00-62	36
1 39	Ch. 61 single	00-62	26
1 40	Ch. 75 secondary	00-62	13
1 41	Ch. 75 primary	00-62	35
1 42	Ch. 75 single	00-62	22
1 43	Ch. 101 secondary	00-62	21
1 44	Ch. 101 primary	00-62	35
1 45	Ch. 101 single	00-62	30
1 46	Ch. 114 secondary	00-62	29
1 47	Ch. 114 primary	00-62	34
1 48	Ch. 114 single	00-62	35
1 49	Ch. 122 secondary	00-62	33
1 50	Ch. 122 primary	00-62	33
1 51	Ch. 122 single	00-62	35
1 52	Ch. 125 secondary	00-62	34
1 53	Ch. 125 primary	00-62	32
1 54	Ch. 125 single	00-62	33

MANUAL TUNER ALIGNMENT

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.

Band 1 Manual Alignment

1. Use tuner alignment generator, RCA stock no. TAG001, and a VCR for signal source. Connect DC voltmeter to pin 5 of U7401.
2. Set the tuner alignment generator for channel 17 output and tune to receive channel 17.
3. Adjust L7305 for 20.0V ±.3V
4. Connect voltmeter to pin 11 of U1001.
5. Select parameter (1 13) and record the value. Adjust parameter (1 13) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7115 and repeat step 5. If the null voltage appears, set parameter (1 13) to recorded value and continue to the next step.
6. Select parameter (1 14) and record the value. Adjust parameter (1 14) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7114 and repeat step 6. If the null voltage appears, set parameter (1 14) to recorded value and continue to the next step.
7. Select parameter (1 15) and record the value. Adjust parameter (1 15) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7112 and repeat step 7. If the null voltage appears, set parameter (1 15) to recorded value and continue to the next step.

Band 2 Manual Alignment

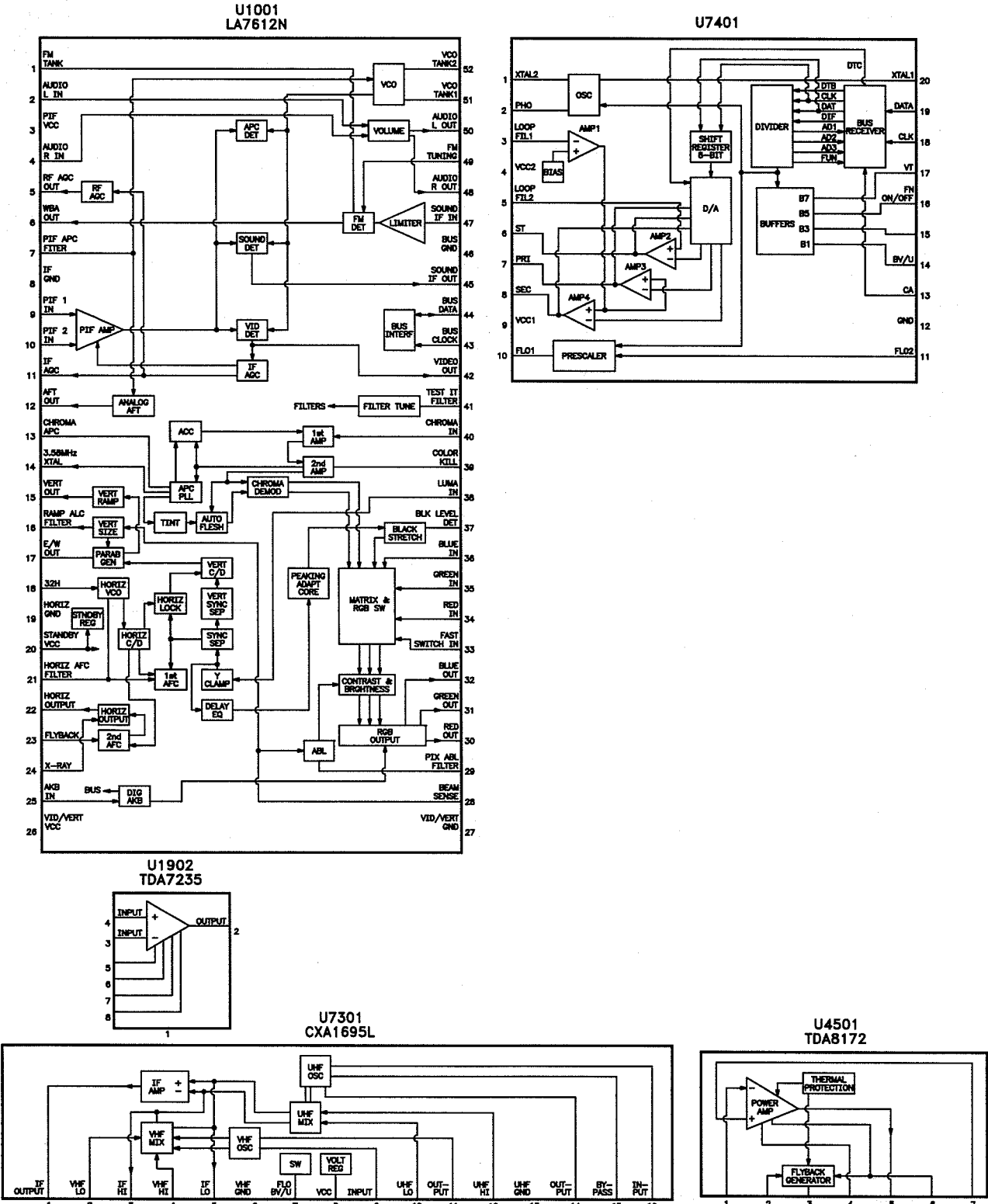
1. Use tuner alignment generator, RCA stock no. TAG001, and a VCR for signal source. Connect DC voltmeter to pin 5 of U7401.
2. Set the tuner alignment generator for channel 50 output and tune to receive channel 50.
3. Adjust L7304 for 23.7V ±.3V
4. Connect voltmeter to pin 11 of U1001.
5. Select parameter (1 31) and record the value. Adjust parameter (1 31) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7110 and repeat step 5. If the null voltage appears, set parameter (1 31) to recorded value and continue to the next step.
6. Select parameter (1 32) and record the value. Adjust parameter (1 32) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7113 and repeat step 6. If the null voltage appears, set parameter (1 32) to recorded value and continue to the next step.
7. Select parameter (1 33) and record the value. Adjust parameter (1 33) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7111 and repeat step 7. If the null voltage appears, set parameter (1 33) to recorded value and continue to the next step.

Band 3 Manual Alignment

1. Use tuner alignment generator, RCA stock no. TAG001, and a VCR for signal source. Connect DC voltmeter to pin 5 of U7401.
2. Set the tuner alignment generator for channel 125 output and tune to receive channel 125.
3. Adjust L7303 for 23.2V ±.3V
4. Connect voltmeter to pin 11 of U1001.
5. Select parameter (1 52) and record the value. Adjust parameter (1 52) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7102 and repeat step 5. If the null voltage appears, set parameter (1 52) to recorded value and continue to the next step.
6. Select parameter (1 53) and record the value. Adjust parameter (1 53) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7105 and repeat step 6. If the null voltage appears, set parameter (1 53) to recorded value and continue to the next step.
7. Select parameter (1 54) and record the value. Adjust parameter (1 54) thru the value range and check for a null AGC voltage. If the null voltage does not appear, adjust L7104 and repeat step 7. If the null voltage appears, set parameter (1 54) to recorded value.

IC FUNCTIONS

TEST EQUIPMENT



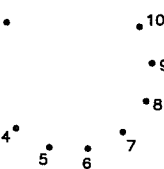
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

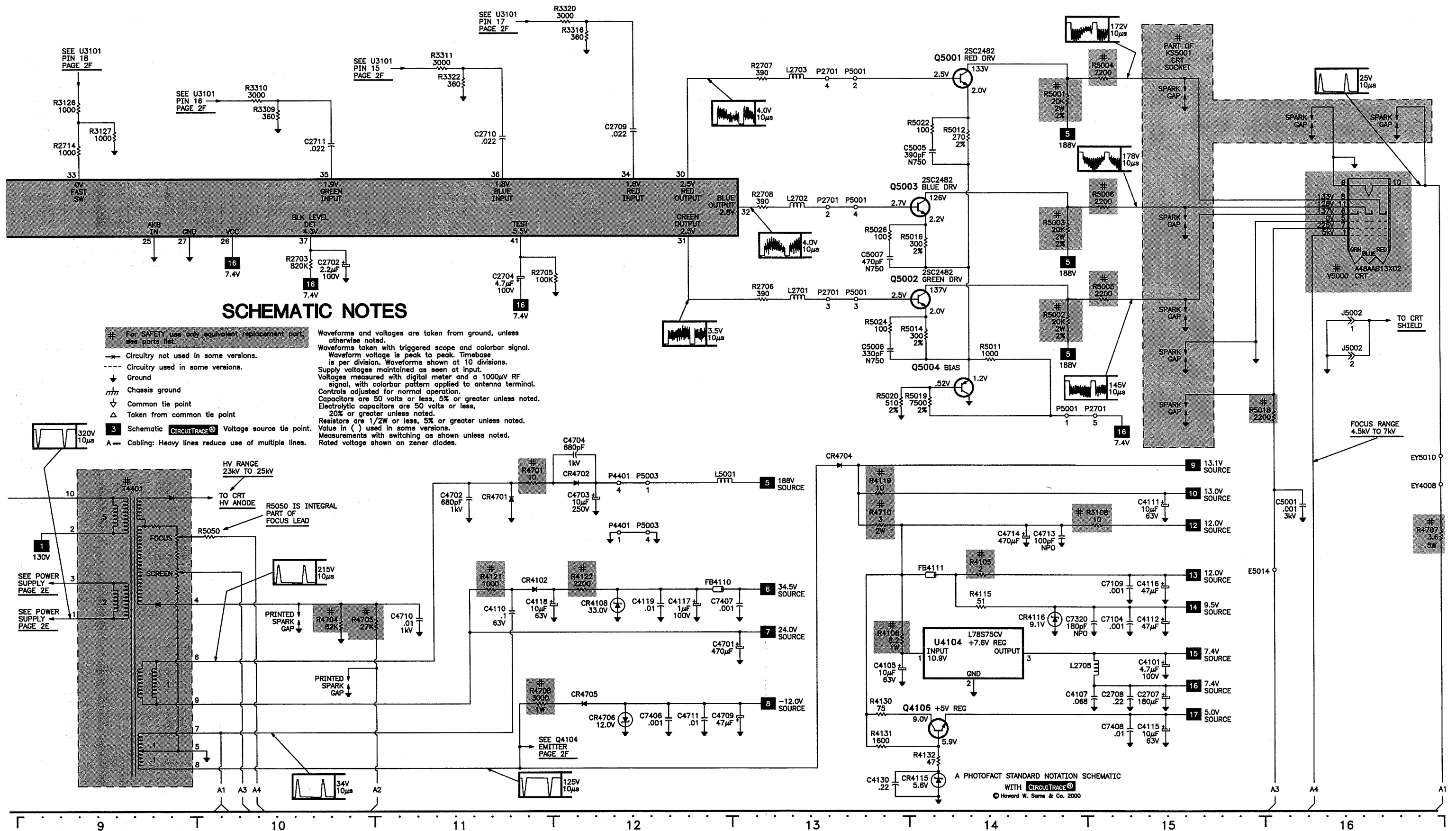
Equipment	Sencore No.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570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

RCA

MODEL F19261TX1 (CHASSIS CTC185A4)

B



TELEVISION SCHEMATIC continued

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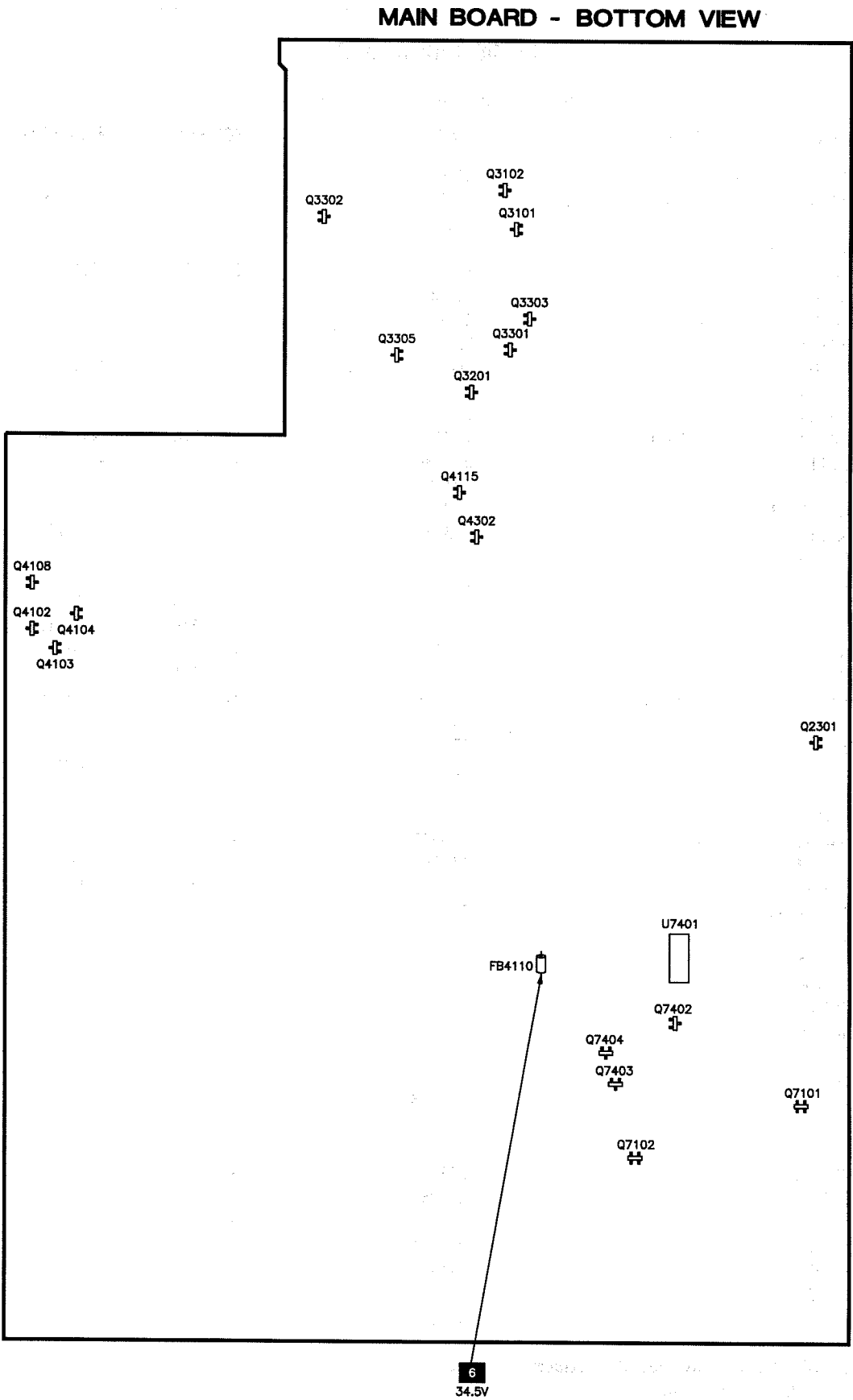
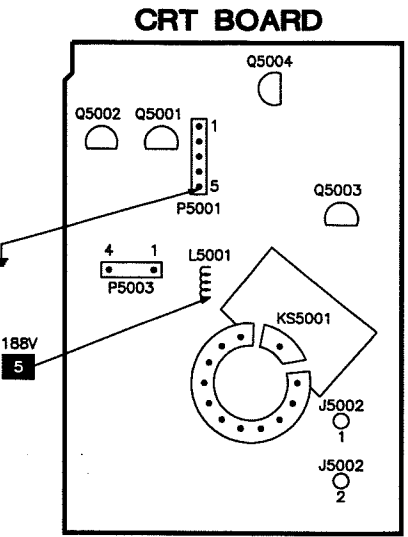
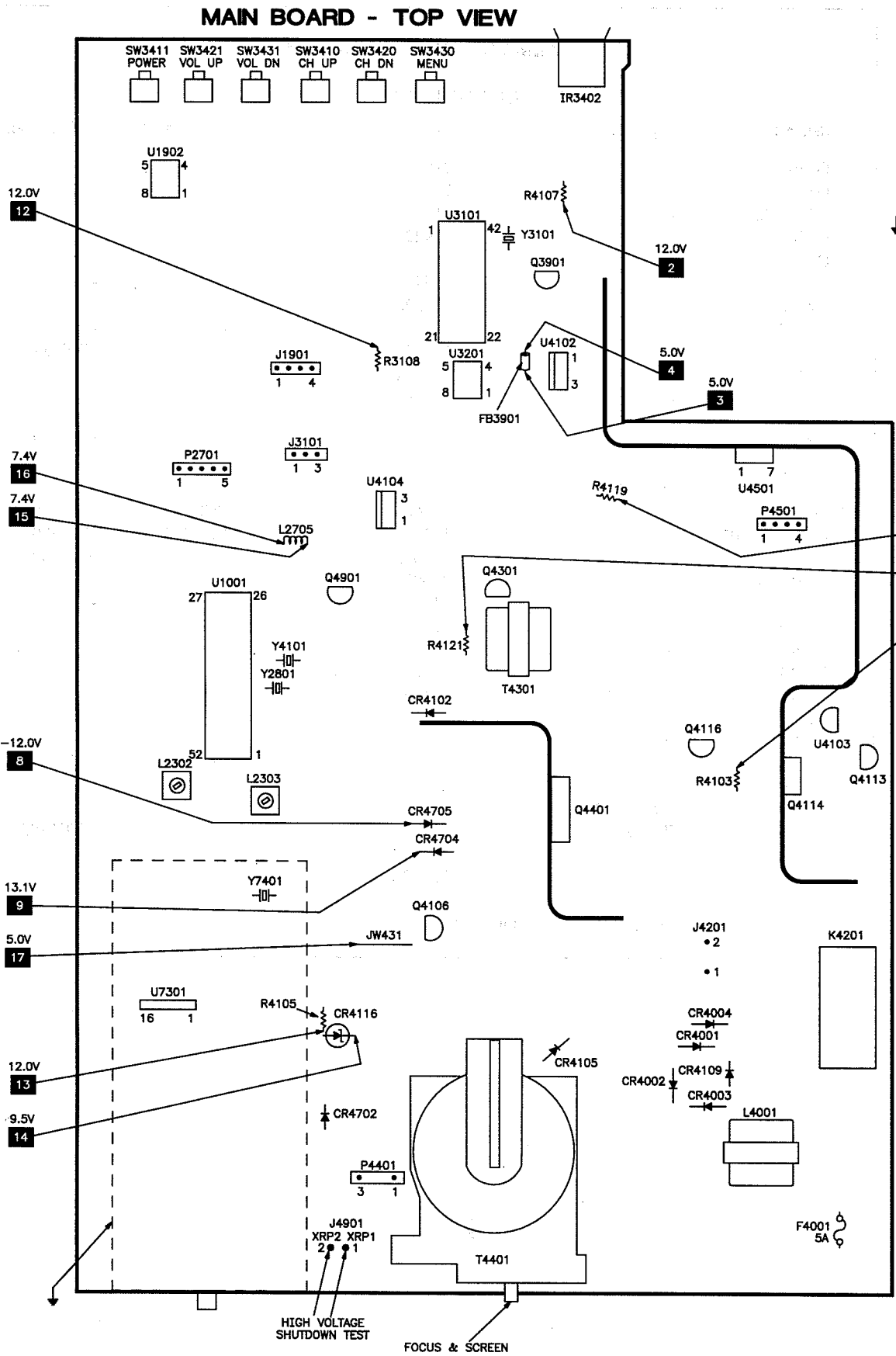
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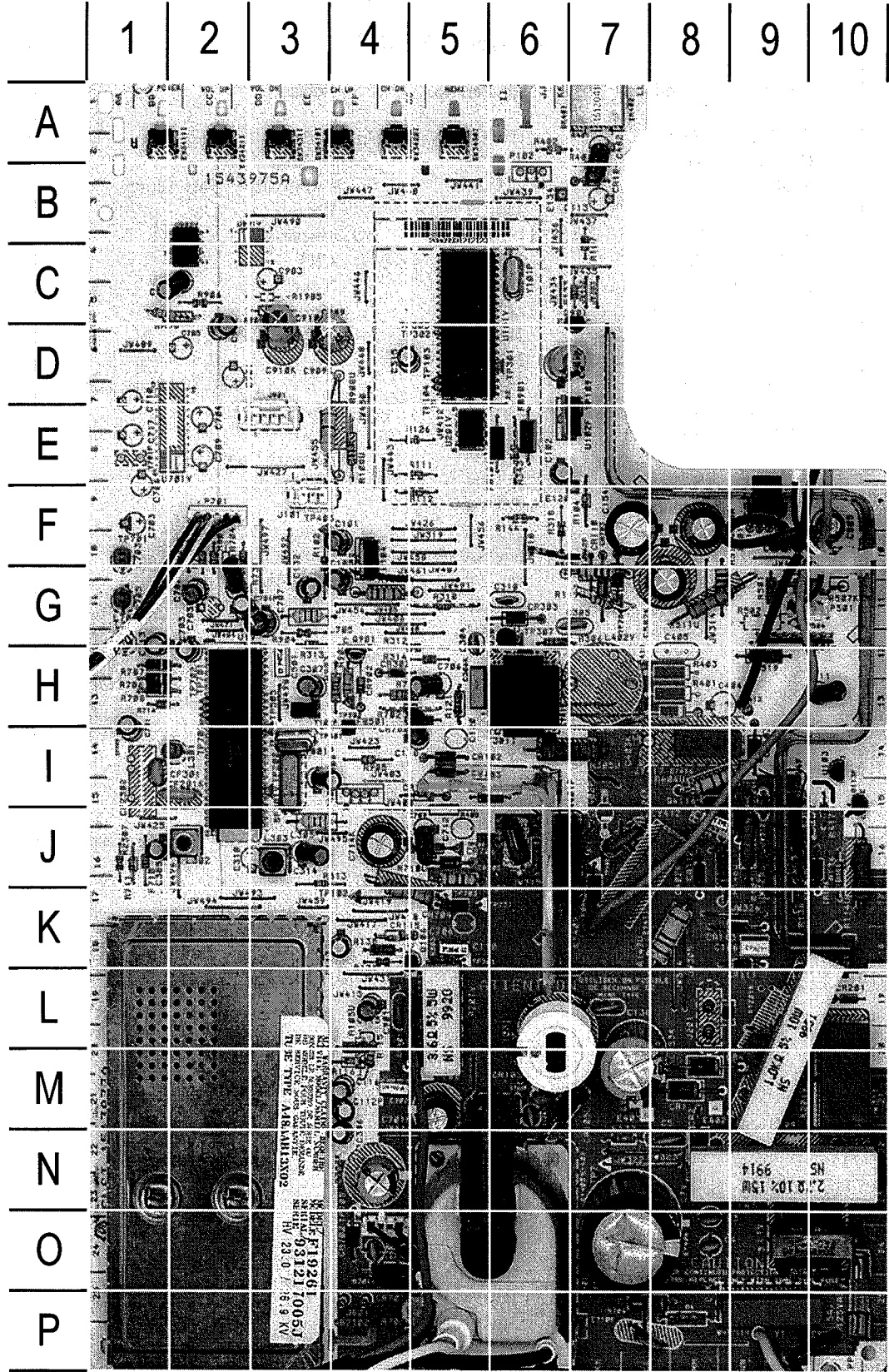
SCHEMATIC COMPONENT LOCATION GUIDE

C1201	A5	C4001	A17	C4704	D12	C7302	A30	CR4702	D12	L7112	C29	R2311	B4	R3301	A22	R4145	C17	R5050	D10	SF2301	B1
C1202	A5	C4003	A19	C4709	E13	C7303	B31	CR4703	D17	L7113	C29	R2313	C2	R3302	C22	R4146	B19	R7101	B26	SP1902	A8
C1206	A5	C4004	B19	C4710	D11	C7304	C31	CR4704	D13	L7114	C29	R2314	C2	R3303	C21	R4147	C18	R7106	A27	SW3410	B21
C1902	A6	C4005	A19	C4711	E12	C7305	A32	CR4705	E12	L7115	C27	R2315	C2	R3305	D23	R4148	C17	R7108	D29	SW3411	B21
C1904	A6	C4007	A19	C4713	D14	C7307	C32	CR4706	E12	L7116	C25	R2316	B3	R3306	D23	R4149	D19	R7109	B27	SW3420	B21
C1906	A7	C4101	E15	C4714	D14	C7308	B31	CR4901	E2	L7117	C26	R2317	B4	R3309	B10	R4172	A19	R7110	B29	SW3421	B21
C1908	A8	C4102	D18	C4901	E1	C7309	B31	CR4902	E2	L7118	C26	R2702	E3	R3310	B10	R4173	C19	R7111	B30	SW3430	C21
C1909	A7	C4103	D19	C4902	E1	C7310	B31	CR7101	A26	L7301	B32	R2703	B10	R3311	A11	R4301	D3	R7112	C27	SW3431	C21
C1910	A8	C4104	B18	C4903	D2	C7311	C31	CR7102	A29	L7302	A32	R2705	B12	R3314	B17	R4303	E2	R7113	C27	T4301	E5
C1912	A6	C4105	E13	C4904	D2	C7312	C31	CR7103	A30	L7303	B30	R2706	C13	R3316	A12	R4304	E4	R7114	C27	T4401	A20
C2301	B1	C4106	C19	C5001	D16	C7314	C30	CR7105	C27	L7304	D30	R2707	A13	R3317	E22	R4305	E5	R7115	A30	T4401	D9
C2302	B1	C4107	E15	C5005	B14	C7315	D29	CR7106	C27	L7305	D30	R2708	B13	R3318	D6	R4306	E5	R7119	B28	U1001	A4
C2303	D21	C4108	C18	C5006	C13	C7316	D30	CR7107	C27	L7306	D30	R2710	B2	R3320	A12	R4307	D1	R7122	B30	U1001	A5
C2304	A4	C4109	D19	C5007	B13	C7318	C30	CR7108	B29	PCBC1	A29	R2711	B3	R3321	C21	R4308	E3	R7123	C28	U1001	B2
C2305	B4	C4110	D11	C7101	A25	C7320	D15	CR7109	C28	PCBC2	A29	R2714	B9	R3322	A11	R4309	E4	R7124	B29	U1001	B7
C2306	C2	C4111	D15	C7102	A26	C7322	B32	CR7110	C29	PW4001	A17	R2726	B8	R3324	D22	R4310	E3	R7125	C28	U1001	C1
C2307	C3	C4112	D15	C7103	A27	C7323	D30	CR7111	B29	Q2301	B5	R2731	D3	R3325	D22	R4311	D3	R7127	C29	U1902	A7
C2308	C3	C4114	E19	C7104	D15	C7325	D29	CR7112	C27	Q3101	E18	R2801	B7	R3326	C21	R4312	E2	R7128	B30	U3101	A22
C2309	B3	C4115	E15	C7105	A29	C7326	A32	CR7113	C29	Q3102	E19	R2802	B7	R3331	C22	R4313	D2	R7129	D27	U3201	B23
C2312	B2	C4116	D15	C7106	A29	C7402	D30	CR7114	A26	Q3201	B23	R2803	C8	R3343	D21	R4314	D2	R7130	B27	U4102	D18
C2313	B2	C4117	D12	C7107	D27	C7403	D30	CR7301	B30	Q3301	C21	R2804	B7	R3345	C21	R4320	D2	R7132	C29	U4103	D19
C2314	C2	C4118	D12	C7108	A30	C7404	D30	CR7302	C31	Q3302	B17	R2805	B6	R3347	E22	R4402	E6	R7136	D30	U4104	E14
C2701	B6	C4119	D12	C7109	D15	C7405	E29	CR7303	D29	Q3303	C21	R2806	C7	R3401	A21	R4404	D8	R7138	C27	U4501	C6
C2702	B10	C4122	B18	C7110	C27	C7406	E12	CR7304	B31	Q3305	D21	R2807	C7	R3402	A22	R4501	D7	R7139	A25	U7301	A31
C2703	C8	C4123	D20	C7111	D29	C7407	D13	F4001	A17	Q3901	E19	R3101	B21	R4001	A18	R4503	D4	R7140	B25	U7401	E27
C2704	B11	C4124	B20	C7112	C30	C7408	E15	FB3101	E18	Q4102	C19	R3102	C21	R4002	D17	R4507	D7	R7141	C28	V5000	B16
C2706	E3	C4127	D20	C7113	C28	C7409	D26	FB3901	E19	Q4103	C19	R3103	B21	R4004	A17	R4511	D6	R7142	C28	Y2801	B8
C2707	E15	C4130	E13	C7114	B25	C7410	E26	FB4110	D12	Q4104	C17	R3104	C21	R4102	D3	R4517	D5	R7145	D27	Y3101	E22
C2708	E15	C4132	D3	C7115	B28	C7411	E26	FB4111	D14	Q4106	E14	R3105	B22	R4103	B19	R4518	D5	R7147	B28	Y4101	D1
C2709	B12	C4133	D3	C7116	B28	C7412	E28	FB4401	E7	Q4108	C18	R3106	B21	R4104	D18	R4519	D5	R7148	A26	Y7401	E29
C2710	B11	C4134	C19	C7117	C28	C7413	D30	FB4501	C4	Q4113	C20	R3107	E19	R4105	D14	R4701	D11	R7149	C30		
C2711	B10	C4135	C19	C7118	C28	C7415	D28	IR3402	A21	Q4114	B18	R3108	D14	R4106	E13	R4704	D10	R7150	A29		
C2713	C8	C4136	C17	C7119	B29	CF1201	A3	J7101	A25	Q4115	D23	R3109	E23	R4107	E19	R4705	D11	R7151	D29		
C2714	B2	C4137	B19	C7120	A25	CF2301	B4	K4201	A18	Q4116	C19	R3110	B22	R4108	B18	R4706	E2	R7301	B30		
C2715	B3	C4138	C18	C7122	B29	CR2301	B3	K4201	B17	Q4301	E5	R3111	A23	R4110	C19	R4707	D16	R7302	B31		
C2801	B7	C4153	B20	C7123	B27	CR2702	E3	KS5001	A15	Q4302	E4	R3112	A23	R4113	D17	R4708	E11	R7303	C31		
C2802	B6	C4154	D17	C7124	A27	CR3102	E19	L2301	B4	Q4401	E6	R3113	A23	R4114	C19	R4710	D13	R7306	C30		
C2803	C8	C4155	D20	C7125	C28	CR4001	A18	L2302	C3	Q4901	D1	R3114	A23	R4115	D14	R4801	D4	R7307	C30		
C2805	B5	C4302	E4	C7126	C29	CR4002	A19	L2303	B4	Q5001	A14	R3115	A23	R4116	C18	R4901	E2	R7308	C30		
C2806	B7	C4303	E4	C7127	B28	CR4003	B19	L2305	C2	Q5002	C13	R3118	C23	R4117	D18	R4902	D1	R7309	C31		
C2807	B7	C4304	E5	C7129	B25	CR4004	B18	L2701	C13	Q5003	B13	R3119	E18	R4118	C18	R4903	D1	R7310	B30		
C3101	A23	C4305	E5	C7130	B28	CR4102	D11	L2702	B13	Q5004	C14	R3120	E17	R4119	D13	R4904	D2	R7311	B31		
C3102	A23	C4306	E5	C7131	D29	CR4103	B18	L2703	A13	Q7101	A28	R3122	C23	R4120	D18	R4905	D1	R7313	D29		
C3108	D23	C4307	D1	C7132	B29	CR4104	E19	L2705	E15	Q7102	C28	R3124	B21	R4121	D11	R4906	D2	R7315	D30		
C3111	E20	C4308	D1	C7134	C27	CR4105	B18	L4000	C7	Q7402	D28	R3125	B21	R4122	D12	R4909	D2	R7316	A31		
C3112	E20	C4309	E4	C7136	C26	CR4106	C19	L4001	A17	Q7403	B28	R3126	B9	R4123	D19	R5001	A14	R7317	A32		
C3113	E17	C4310	E4	C7137	C27	CR4108	D12	L4102	B18	Q7404	B27	R3127	B9	R4124	C19	R5002	C14	R7401	D31		
C3114	E22	C4311	E3	C7139	A26	CR4109	D17	L4200	B18	R1201	B3	R3129	E18	R4125	D20	R5003	B14	R7404	D30		
C3115	E22	C4401	E6	C7140	C26	CR4110	D17	L4401	E6	R1202	A5	R3130	E18	R4126	D19	R5004	A15	R7405	E26		
C3121	E18	C4402	E7	C7142	C26	CR4111	C19	L5001	D12	R1902	A6	R3131	E23	R4127	C18	R5005	C15	R7406	E26		
C3126	E19	C4403	D8	C7143	C28	CR4112	C19	L7101	A25	R1904	A6	R3132	E18	R4128	D19	R5006	B15	R7407	D30		
C3128	E20	C4406	E7	C7145	B29	CR4113	C19	L7102	A26	R1906	A6	R3133	E18	R4130	E13	R5011	C14	R7408	D31		
C3131	E23	C4501	D3	C7146	B25	CR4115	E14	L7103	A28	R1907	A8	R3134	D23	R4131	E13	R5012	B14	R7410	B27		
C3201	B24	C4502	D5	C7147	B25	CR4116	D14	L7104	A29	R1908	B7	R3140	A23	R4132	E14	R5014	C14	R7412	D28		
C3301	C21	C4504	D7	C7148	D27	CR4117	B19	L7105	A29	R2302	B1	R3145	E19	R4133	E19	R5016	B14	R7413	B27		
C3310	E23	C4505	D6	C7149	C25	CR4201	B17	L7106	C26	R2303	B1	R3149	D21	R4136	D19	R5018	C16	R7414	B28		
C3315	C22	C4506	D6	C7150	C26	CR4302	D2	L7107	C26	R2304	B5	R3150	D21	R4137	D19	R5019	C14	R7415	D28		
C3316	E23	C4507	D5	C7151	C26	CR4303	E4	L7108	C27	R2306	B4	R3201	B23	R4138	C19	R5020	C13	R7416	D28		
C3401	A21	C4701	E13	C7152	C26	CR4403	D8	L7109	B28	R2307	B5	R3202	B23	R4142	C20	R5022	B14	R7417	D29		
C3402	A21	C4702	D11	C7153	C26	CR4501	D6	L7110	C27	R2308	A4	R3203	B24	R4143	D23	R5024	C13	RN4501	C5		
C3901	E19	C4703	D12	C7301	A30	CR4701	D11	L7111	C29	R2309	B3	R3204	B23	R4144	D23	R5026	B13	RT4201	A18		

PLACEMENT CHART



MAIN BOARD - TOP VIEW

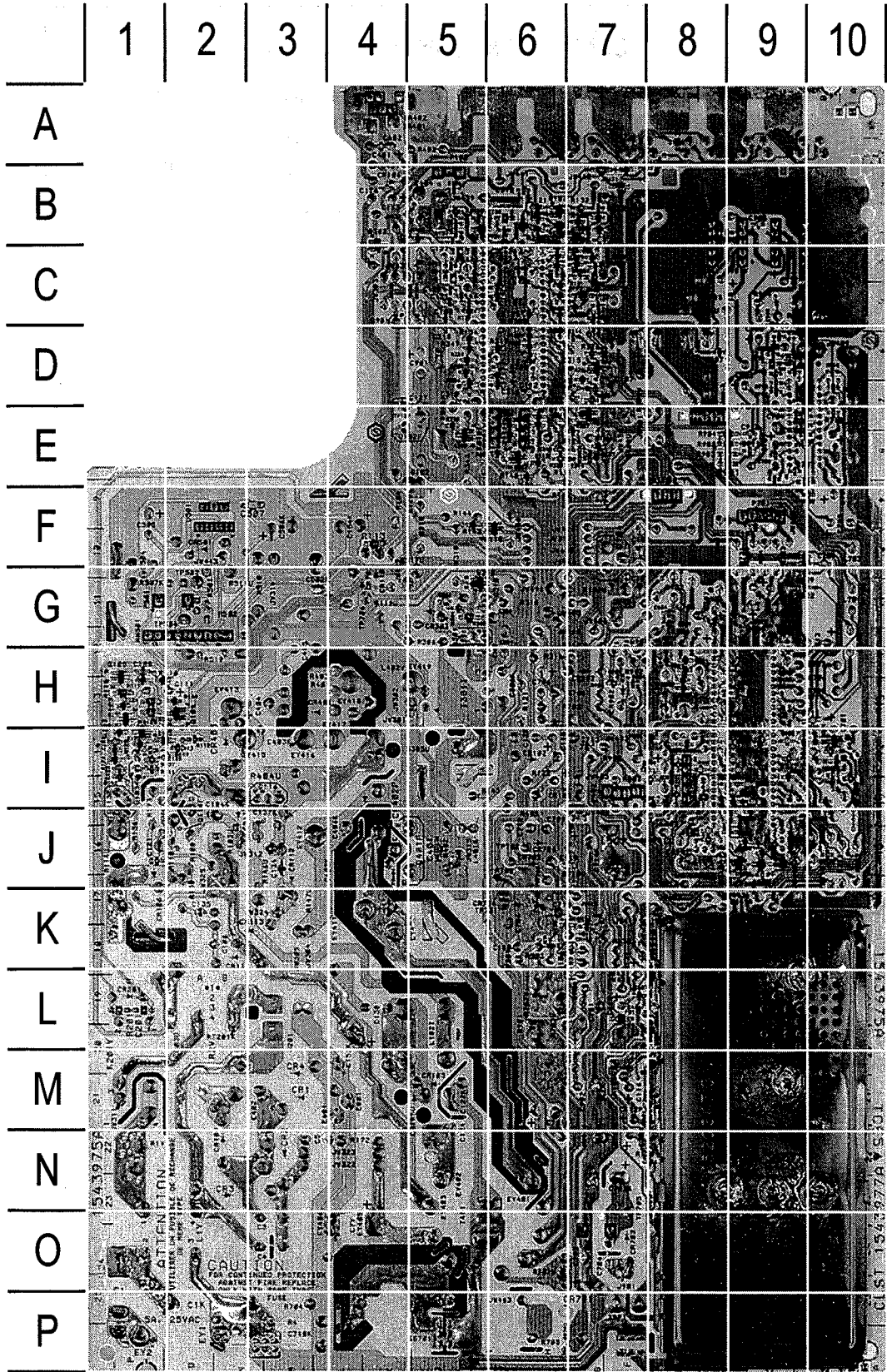


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MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C1902	D2	C4702	O4	K4201	M10	R4114	J10	U3201	E5
C1904	C2	C4703	N4	L2301	I2	R4115	L4	U4102	E7
C1909	D3	C4704	O4	L2302	J2	R4119	G7	U4103	I10
C1910	D3	C4709	J5	L2303	J3	R4121	H5	U4104	F4
C2305	J1	C4710	P8	L2305	J3	R4122	I5	U4501	F9
C2306	N4	C4714	J4	L2701	G1	R4130	K4	Y2801	I3
C2314	J3	C4901	L4	L2702	G1	R4131	K4	Y3101	C6
C2701	I1	C4902	M4	L2703	F1	R4133	C7	Y4101	H3
C2702	G2	CF1201	I2	L2705	G3	R4136	J10		
C2703	H2	CF2301	I1	L4001	O9	R4138	K9		
C2704	G2	CR2702	H5	L4102	M6	R4144	F6		
C2706	H5	CR4001	M8	L4401	J6	R4145	I6		
C2707	G3	CR4002	N8	P2701	F2	R4146	J8		
C2713	G1	CR4003	N9	P4401	O4	R4147	K8		
C2801	G2	CR4004	M8	P4501	G9	R4172	N7		
C2806	I3	CR4102	I5	Q3901	C7	R4173	J10		
C3315	D4	CR4103	M6	Q4106	K5	R4303	K5		
C3402	A7	CR4104	B7	Q4113	I10	R4305	I6		
C3901	D6	CR4105	M6	Q4114	J9	R4306	G6		
C4001	P9	CR4106	J10	Q4116	I8	R4310	G5		
C4003	O8	CR4108	J5	Q4301	G6	R4312	H5		
C4004	O8	CR4109	N9	Q4401	J6	R4313	G3		
C4005	N8	CR4110	G7	Q4901	H4	R4314	H5		
C4007	O7	CR4111	K9	R1906	C2	R4402	J6		
C4101	F4	CR4112	J8	R1907	C2	R4404	I8		
C4102	E6	CR4113	K9	R1908	E4	R4501	G9		
C4104	J9	CR4115	K4	R2307	J1	R4507	G9		
C4105	G4	CR4116	M4	R2313	J3	R4511	G8		
C4106	K9	CR4117	J9	R2702	H5	R4517	G7		
C4110	K5	CR4201	L10	R2703	F2	R4518	G8		
C4111	H10	CR4302	H4	R2706	H1	R4519	H9		
C4112	M4	CR4303	G6	R2707	H1	R4701	O4		
C4115	L4	CR4403	I9	R2708	H1	R4704	P7		
C4116	M4	CR4501	F9	R2710	J1	R4705	P4		
C4117	K4	CR4701	O4	R2711	J1	R4706	H4		
C4118	I5	CR4702	O4	R2714	H1	R4707	L5		
C4122	M6	CR4703	G7	R2731	F2	R4708	J5		
C4124	M6	CR4704	K5	R2804	F2	R4710	K5		
C4132	G3	CR4705	J5	R3108	E4	R4901	L5		
C4137	J8	CR4706	J5	R3111	E5	R4902	H4		
C4138	L7	CR4901	M4	R3112	F5	R4903	H4		
C4153	M7	CR4902	H4	R3126	E5	R4904	G3		
C4154	F7	EY4001	P9	R3318	F6	R4905	I4		
C4304	G5	EY4002	P10	R3343	E6	RN4501	G9		
C4305	G7	EY4008	L5	R3401	A7	RT4201	L9		
C4306	H5	EY4409	K7	R3402	A6	SF2301	I3		
C4307	H3	EY4413	H9	R4001	N9	SW3410	A4		
C4310	G6	F4001	P10	R4002	M9	SW3411	A1		
C4402	J7	FB3101	E6	R4004	P8	SW3420	A4		
C4403	I8	FB3901	E6	R4102	F3	SW3421	A2		
C4406	J7	FB4401	K7	R4103	J9	SW3430	A5		
C4501	H3	FB4501	I4	R4104	F7	SW3431	A3		
C4502	G8	IR3402	A7	R4105	M4	T4301	H6		
C4504	F10	J/P1901	E3	R4106	G4	T4401	O6		
C4505	F10	J3101	F3	R4107	C7	U1001	I2		
C4506	F8	J4201	L8	R4108	J9	U1902	C2		
C4701	M5	J4901	P4	R4110	J9	U3101	D5		

MAIN BOARD - BOTTOM VIEW



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MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C1201	J9	C4308	H9	R3109	D6	R4132	K7
C1202	I9	C4309	G5	R3110	C6	R4137	I2
C1206	J9	C4311	H8	R3113	E6	R4142	I1
C1906	B9	C4401	J5	R3114	E6	R4143	F5
C1908	D9	C4507	F3	R3115	E6	R4148	H2
C1912	E9	C4711	J7	R3118	C7	R4149	I2
C2301	I8	C4713	I7	R3119	C7	R4301	H8
C2302	I9	C4903	H9	R3120	C6	R4304	G5
C2303	J10	C4904	G8	R3122	C6	R4307	H8
C2304	J8	CR2301	J9	R3124	C7	R4308	H8
C2307	I9	CR3102	B6	R3125	C6	R4309	G5
C2308	I9	FB4110	L8	R3127	E7	R4311	H11
C2309	J9	FB4111	L7	R3129	C7	R4320	H8
C2312	J9	Q2301	I10	R3130	B7	R4503	I8
C2313	I9	Q3101	B7	R3131	C5	R4801	H8
C2708	G8	Q3102	B6	R3132	B7	R4906	H7
C2709	F10	Q3201	E6	R3133	B7	R4909	G8
C2710	H9	Q3301	E7	R3134	D5	XRP1	P7
C2711	H10	Q3302	B4	R3140	E6	XRP2	P7
C2714	K9	Q3303	D7	R3145	B6		
C2715	K9	Q3305	E5	R3149	E7		
C2802	I9	Q4102	H1	R3150	D6		
C2803	I8	Q4103	I2	R3201	D6		
C2805	I9	Q4104	H3	R3202	D6		
C2807	I8	Q4108	H1	R3203	E6		
C3101	E6	Q4115	F6	R3204	E6		
C3102	E6	Q4302	G5	R3301	C6		
C3108	C6	R1201	I9	R3302	D6		
C3111	D6	R1202	I9	R3303	D7		
C3112	D6	R1902	E9	R3305	D6		
C3113	C6	R1904	E9	R3306	D5		
C3114	C6	R2302	I8	R3309	G9		
C3115	C6	R2303	I9	R3310	E6		
C3121	B6	R2304	I10	R3311	E6		
C3126	B6	R2306	I10	R3314	B5		
C3128	C7	R2308	J9	R3316	F9		
C3131	C5	R2309	J8	R3317	D6		
C3201	E6	R2311	I10	R3320	E6		
C3301	D7	R2314	J9	R3321	D7		
C3310	D5	R2315	J9	R3322	G9		
C3316	D6	R2316	I9	R3324	D5		
C3401	A4	R2317	I9	R3325	E5		
C4103	I2	R2705	H9	R3326	D7		
C4107	F9	R2726	H9	R3331	E7		
C4108	H1	R2801	I9	R3345	D7		
C4109	I1	R2802	I9	R3347	D5		
C4114	B4	R2803	I8	R4113	F4		
C4119	J7	R2805	I9	R4116	H2		
C4123	I1	R2806	I8	R4117	H1		
C4127	D5	R2807	I8	R4118	H1		
C4130	K7	R3101	C7	R4120	I1		
C4133	H9	R3102	C7	R4123	H1		
C4134	J3	R3103	C6	R4124	H1		
C4135	K2	R3104	C6	R4125	H1		
C4136	I2	R3105	C6	R4126	I1		
C4302	G5	R3106	B5	R4127	I1		
C4303	H5	R3107	B7	R4128	I1		

RCA

MODEL F19261TX1 (CHASSIS CTC185A4)

PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
CR2301	-	227051	-	-
CR2702	1N4148	164717	ECG519	NTE519
CR3102	-	232709	-	-
CR4001 Thru				
CR4004	-	147015	ECG125	NTE125
CR4102	-	227066	-	-
CR4103	-	233082	-	-
CR4104	-	233083	-	-
CR4105	-	164589	ECG558	NTE558
CR4106	-	207878	-	-
CR4108	-	215489	-	-
CR4109	1N4002	155276	ECG116	NTE116
CR4110	-	233084	-	-
CR4111	-	225702	-	-
CR4112, 13	-	207878	-	-
CR4115	-	215488	-	NTE136
CR4116	-	227362	-	-
CR4117	-	242171	-	-
CR4201	1N4148	164717	ECG519	NTE519
CR4302	1N4148	164717	ECG519	NTE519
CR4303	-	176296	ECG125	NTE125
CR4403	-	176296	ECG125	NTE125
CR4501	1N4002	155276	ECG116	NTE116
CR4701	-	241304	-	-
CR4702	-	176296	ECG125	NTE125
CR4703	1N4002	155276	ECG116	NTE116
CR4704	-	207878	-	-
CR4705	-	227066	-	-
CR4706	-	220637	-	-
# CR4901	-	157301	ECG177	NTE177
# CR4902	-	159429	ECG5019T1	NTE5019T1
CR7101 (1)	-	215492	-	-
CR7102, 03 (1)	-	-	-	-
CR7105	-	215493	-	-
CR7106	-	233085	-	-
CR7107, 08	-	211863	-	-
CR7109, 10	-	215493	-	-
CR7111	-	211863	-	-
CR7112	-	215493	-	-
CR7113	-	233085	-	-
CR7114 (1)	-	-	-	-
CR7301 (1)	-	-	-	-
CR7302	-	211863	-	-
CR7303	-	215493	-	-
CR7304 (1)	-	-	-	-
Q2301	-	215496	-	-
Q3101	-	215495	-	-
Q3102	-	215496	-	-
Q3201	-	215496	-	-

For SAFETY use only equivalent replacement part.
(1) Part of CR701 diode kit.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
Q3301	-	215496	-	-
Q3302	-	219412	-	-
Q3303, 05	-	215496	-	-
Q3901	-	229220	-	-
Q4102, 03	-	215496	-	-
Q4104	-	215495	-	-
Q4106	-	229220	-	-
Q4108	-	215496	-	-
Q4113	-	146851	ECG287	NTE287
# Q4114	-	242204	-	-
Q4115	-	215496	-	-
Q4116	-	229220	-	-
Q4301	-	146851	ECG287	NTE287
Q4302	-	215495	-	-
# Q4401	BUH417D	233182	-	-
# Q4901	-	147665	ECG159	NTE159
Q5001, 02, 03	2SC2482	185197	ECG399	NTE399
Q5004	-	219025	ECG159	NTE159
Q7101, 02	-	226973	-	-
Q7402	-	215496	-	-
Q7403	-	231534	-	-
Q7404	-	215496	-	-
# U1001	LA7612N	241266	-	-
U1902	TDA7235	231531	-	-
U3101	M22CL9918Y	245272	-	-
U3201	24C02	245273	-	-
U4102	7812CT	162394	ECG966	NTE966
U4103	TL31AC	231525	-	-
U4104	L78S75CV	231526	-	-
U4501	TDA8172	215531	ECG1788	NTE1788
U7301	CXA1695L	231528	-	-
U7401	-	231529	-	-

For SAFETY use only equivalent replacement part.

PARTS LIST continued

Important Parts Information

- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

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

Participating Vendors

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

- Custom Components Corporation (Chek-A-Color)
 - NTE Electronics, Inc. (NTE)
 - Phillips ECG Company (ECG)
- Terrell & Nobis (TNI Electronics)
 - Sencore, Inc.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C2303	120pF 5% 50V NPO	194902
C2714, 15	43pF 5% 50V NPO	214029
C2803	15pF 5% 50V NPO	200538
C2805	120pF 5% 50V NPO	194902
C3101, 02	100pF 5% 50V NPO	193340
C3108	150pF 5% 50V NPO	214032
C3114, 15	27pF 5% 50V NPO	197604
C3121	100pF 5% 50V NPO	193340
C3316	200pF 5% 50V NPO	218986
# C4001	.22 20% 275VAC	-
	.22 20% 125VAC	231451
# C4003, 04	680pF 20% 1kV	190538
# C4007	470μF 20% 200V	242196
C4108	120pF 5% 50V NPO	194902
C4124	680pF 20% 1kV	190538
C4134, 35	220pF 5% 50V NPO	205551
C4303	470pF 5% 50V NPO	214732
C4310	15pF 1% 250V NPO	223899
C4311	47pF 5% 50V NPO	210689
C4401	470pF 5% 50V NPO	195918
# C4402	.0064 2% 1.6kV	231456
# C4403	.32 5% 250V	223819
# C4406	470pF 5% 2kV	227068
C4702, 04	680pF 20% 1kV	190538
C4710	.01 20% 1kV	137583
C4713	100pF 5% 50V NPO	193340
# C4904	.22 +80% -20% 25V	217298
C5001	.001 10% 3kV	120696
C5005	390pF 5% 50V N750	220630
C5006	330pF 5% 50V N750	147667
C5007	470pF 5% 50V N750	233025
# C7101	330pF 20% 125VAC	235376
C7102	4pF +0pF -.25pF 50V NPO	214757
C7103	22pF 5% 50V NPO	194903
C7105	.75pF ±.25pF 50V NPO	214758
C7108	27pF 5% 50V N750	214760
C7110	1.5pF ±.1pF 50V NPO	223146
# C7114	100pF 20% 120V	235377
C7117	2pF ±.5pF 50V NPO	194905
C7118	22pF 5% 50V NPO	194903
# C7120	330pF 20% 125VAC	235376
C7124	27pF 5% 50V NPO	197604
C7127	120pF 5% 50V NPO	194902
# C7129	330pF 20% 125VAC	235376
C7136	180pF 2% 50V NPO	241265
C7137	330pF 5% 50V NPO	205227
C7139	20pF 2% 50V N220	214761
C7140	6pF ±.25pF 50V NPO	227250

For SAFETY use only equivalent replacement part.
NOTE: SMD capacitor kit (146 values, 5 each) Mfr. Part No. 199349

CAPACITORS & ELECTROLYTICS continued

Item No.	Rating	Mfr. Part No.
# C7146, 47	330pF 20% 125VAC	235376
C7149	22pF 5% 50V NPO	194903
C7150	150pF 5% 50V NPO	214032
C7151	20pF 5% 50V NPO	220150
C7152	43pF 5% 50V NPO	214029
C7153	39pF 5% 50V NPO	202905
C7301, 02	1.5pF ±.1pF 50V NPO	223146
C7304	2pF ±.25pF 50V NPO	194905
C7305	75pF 5% 50V NPO	192061
C7307	20pF 5% 50V NPO	220150
C7308	5pF ±.25pF 50V N750	231457
C7309	10pF 50V N750	231458
C7310	8pF ±.5pF 50V N750	214766
C7311, 12	5pF ±.25pF 50V N750	231457
C7316	8pF ±.5pF 50V NPO	194909
C7320	180pF 2% 50V NPO	241265
C7322	24pF 2% 50V NPO	231459
C7323	6pF ±.25pF 50V NPO	227250
C7326	82pF 2% 50V NPO	231460
C7405	33pF 5% 50V NPO	194911
C7410, 11	39pF 5% 50V NPO	202905

For SAFETY use only equivalent replacement part.

PARTS LIST continued

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# R1907	4.7 5% 1/4W	200197	QW4D7
# R1908	33 5% 2W	196014	2W033
R2302, 03	120K 2% 1/10W	207834	-
R2304	1000 2% 1/10W	197638	-
R2317	1000 2% 1/10W	197638	-
R2702	7500 2% 1/4W	175761	QW275
R2801	30K 2% 1/10W	200176	-
R2804	27K 2% 1/4W	175326	QW327
# R3108	10 5% 1/4W	241259	QW010
R3111, 12	220 5% 1/4W	-	QW122
	220 2% 1/4W	175324	QW122
R3202	120K 2% 1/10W	207834	-
# R4001	2.7 10% 15W Wirewound	190487	-
# R4002	1000 5% 10W Wirewound	231504	10W210
# R4004	1.8M 10% 1/2W	245269	HW518
# R4103	.12 5% 2W	242202	2WD12
# R4105	2 5% 1/4W	181419	QW2D0
# R4106	8.2 5% 1W	235378	1W8D2
# R4114	10K 5% 3W	189989	3W310
# R4119	10 5% 1/4W	241259	QW010
# R4121	1000 5% 1/2W	175350	HW210
# R4122	2200 5% 1/4W	175042	QW222
R4136	143K .5% 1/4W	245270	-
R4137	2800 .5% 1/10W	245271	-
R4142	30K 2% 1/10W	200176	-
# R4146	430 5% 1W	242207	1W143
# R4147	220 5% 3W	231461	3W122
# R4305	4700 5% 3W	175368	3W247
# R4402	91 5% 1/2W	227249	QW091
# R4404	360 5% 2W	231465	2W136
# R4507	1.5 5% 1W	178619	1W1D5
# R4511	1 10% 2W Wirewound	215577	-
# R4517	51 5% 1W	217314	1W051
# R4701	10 10% 1/2W	241261	HW010
# R4704	82K 10% 1/2W	239116	HW382
# R4705	27K 10% 1/2W	238958	HW327
# R4706	1270 1% 1/4W	231516	-
# R4707	3.6 5% 5W	235699	-
# R4708	3000 5% 1W	200446	1W230
# R4710	3 5% 2W Wirewound	223898	-
# R4901	100 5% 1/4W Nonflammable	198667	QW110
# R4902	24.9K 1% 1/4W	235700	-
# R4903	41.2K 1% 1/4W	176500	-
R4906	1500 2% 1/10W	197628	-
# R5001, 02, 03	20K 2% 2W Nonflammable	233034	2W320
# R5004, 05, 06	2200 20% 1/2W	502222	HW222
R5012	270 2% 1/4W	178282	QW127
R5014, 16	300 2% 1/4W	175354	QW130
# R5018	2200 20% 1/2W	502222	HW222
R5019	7500 2% 1/4W	175761	QW275

For SAFETY use only equivalent replacement part.
NOTE: SMD resistor kit (302 values, 5 each) Mfr. Part No. 199350.

CONTROLS & RESISTORS continued

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R5020	510 2% 1/4W	240937	QW151
# R7139, 40	2.7M 20% 1/2W	217662	HW527
RN4501	Resistor Network	215499	-
# RT4201	5.5 Cold PTC	207768	-

For SAFETY use only equivalent replacement part.

CABINET PARTS

Item	Mfr. Part No.
Model F19261TX1	
# Button Assembly	233123
# Button, Cap	239235
# Mask and Back Assembly	MK2091
# Window, IR	239234
Model F19262TX1	
# Button Assembly	233123
# Button, Cap	234549
# Mask and Back Assembly	MK2008
# Window, IR	233539
Remote Transmitter	
Battery Door	226900

For SAFETY use only equivalent replacement part.

PARTS LIST continued

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
FB3101	Ferrite Bead	226467
FB3901	Ferrite Bead	226467
FB4110, 11	Ferrite Bead	215546
FB4401	Ferrite Bead	227410
FB4501	Ferrite Bead	215547
L2301	15μH	197613
L2302	VCO	215502
L2303	FM	233056
L2305	10μH	175409
L2701, 02, 03	8.2μH	149170
L2705	10μH	175409
# L4000 (1)	Yoke Horiz 3mH Vert 23mH	-
# L4001	Line Choke	190507
L4102	320μH	231466
L4200	Degaussing	221042
L4401	6.8μH	191141
L5001	180μH	231467
L7101	-	215507
L7102	-	236641
L7103	-	223929
L7104, 05	-	223917
L7106	-	237456
L7107	-	233057
L7108	-	233074
L7109	3.9μH	200559
L7110	-	233075
L7111	-	233076
L7112	-	231441
L7113	-	233077
L7114	-	231441
L7115	-	233078
L7116	-	237461
L7117	-	237460
L7118	-	237461
L7301	-	231443
L7302	-	231444
L7303	-	233079
L7304	-	233080
L7305	-	236643
L7306	-	231448
# T4301	Horizontal Driver	215541
# T4401 (2)	Horizontal Output	231530

For SAFETY use only equivalent replacement part.

(1) Bonded part of CRT.

(2) Screen and Focus controls are part of T4401.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF1201	Filter	195702	4.5MHz
CF2301	Trap	181125	4.5MHz
# F4001	Fuse	175425	5Amp, 125V, Fast Acting
IR3402	Receiver	244227	Remote
# K4201	Relay	190490	Degaussing
# KS5001	Socket	233120	CRT
# P-HORIZ	Connector	242206	Yoke
# P-VERT	Connector	242205	Yoke
# PW4001	Line Cord	215576	AC, Polarized
SF2301	Filter	217318	SAW
SP1902	Speaker	233442	2 1/4" X 3 1/2", 32 Ohms, 1.5W
SW3410	Switch	215500	Channel Up
SW3411	Switch	215500	Power
SW3420	Switch	215500	Channel Down
SW3421	Switch	215500	Volume Up
SW3430	Switch	215500	Menu
SW3431	Switch	215500	Volume Down
# V5000	CRT	HA48AAB132	A48AAB13X02
Y2801	Crystal	161235	3.58MHz
Y3101	Crystal	217322	8MHz
Y4101	Crystal	227064	507.5kHz
Y7401	Crystal	230708	4MHz
	Adapter	52325	DC
	Fuse Clip	176642	For F4001 (2 used)
	PC Board	245274	CRT
	Transmitter	240959	Remote, CRK10A2

For SAFETY use only equivalent replacement part.