

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 inner 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.	Pin	Color
CRT	B239	CN501	1, 2	Blue
Yoke	D4137		3, 4	Red
Yoke Setting	YP2A		5	Yellow
Comments	Focus Tap		6	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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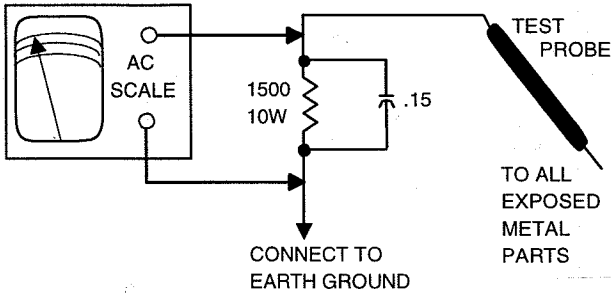
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

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.



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PHOTOFACT® Technical Service Data

SET 4234

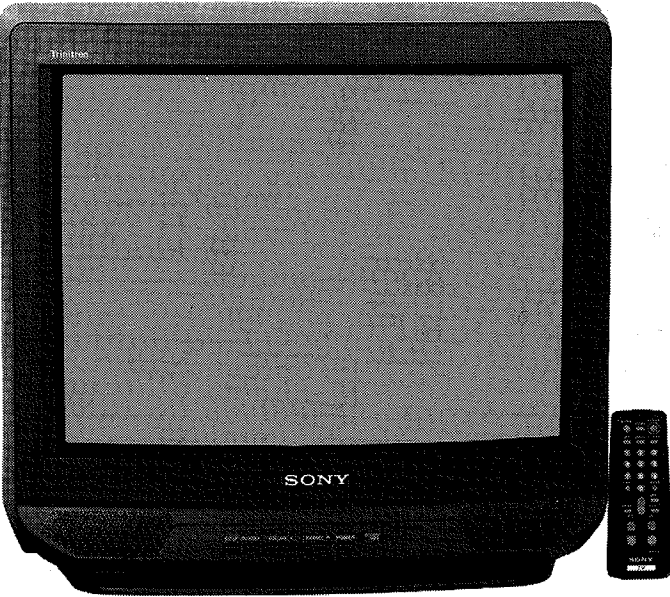
MODEL KV-20S42 (CHASSIS SCC-S27B-A)

SONY

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SONY
Model KV-20S42 (Chassis SCC-S27B-A)



Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

MODELS	CHASSIS
KV-20S42	SCC-S28C-A
KV-20S43	SCC-S27C-A
KV-20S43	SCC-S28D-A
KV-21SB42C	SCC-S25G-A
KV-21SB42M	SCC-S26B-A
KV-21SE42	SCC-S25D-A
KV-21SE42C	SCC-S25H-A



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JANUARY 2000 SET 4234

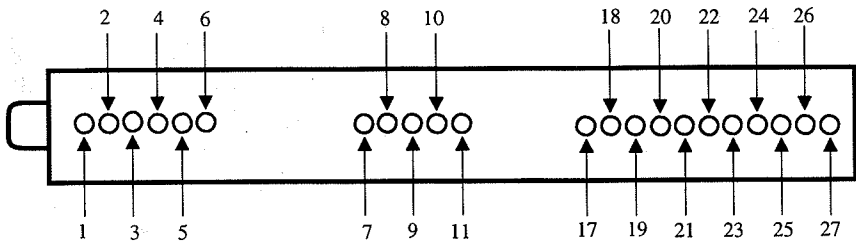
TUNER / VIF / SIF MODULE INFORMATION

TU101 TUNER / VIF / SIF MODULE VOLTAGE CHART

Pin	Pin Name	Voltage	Pin	Pin Name	Voltage	Pin	Pin Name	Voltage
1	9V	8.9V	9	9V	9.0V	22	F MONO	.3V
2	30V	30.4V	10	AFT OUT	3.4V	23	NC	0V
3	5V	5.0V	11	GND	0V	24	MUTE	4.9V
4	CLOCK	4.9V	17	NC	4.6V	25	NC	0V
5	DATA	4.9V	18	DET OUT	4.3V	26	RIGHT OUT	4.5V
6	ENABLE	0V	19	ST LED	5.0V	27	LEFT OUT	4.5V
7	RF AGC	4.4V	20	NC	0V			
8	IF OUT	1.6V	21	MODE	.3V			

NOTE: Voltages do not change on different bands.

TUNER / VIF/ SIF MODULE TERMINAL GUIDE



TEST EQUIPMENT

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

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

SAFETY RELATED ADJUSTMENTS

R582 CONFIRMATION METHOD (HV HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components IC301, IC521, IC602, D572, D573, D574, DY, C511, C574, C575, R578, R582, R583, R584, R585, R586, R625, R626, R634, R635, and T504.

Check that voltage at the cathode of D574 is higher than 99.8V with brightness and picture at maximum before performing confirmation procedure.

1. Unplug receiver. Unsolder pin 11 of T504. Connect a current meter to pin 11 of T504 and the part of the circuit where pin 11 of T504 would normally connect. Reapply 120VAC \pm 2.0VAC (120-220VAC for models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C) and turn on the receiver.
2. Receive a white screen. Adjust picture and brightness so ABL current is 95 μ A +100 μ A -95 μ A. Confirm the voltage at the cathode of D653 is 117.8V \pm .3V.
3. Connect a voltmeter to the cathode of D574. Connect a DC power supply positive lead to the anode of a blocking diode 1SS119 and the cathode to the cathode of D574. Increase DC power supply voltage gradually until picture just blanks out.
4. Check voltage on voltmeter and immediately turn DC power supply off.
5. Voltage should be less than or equal to 127.3V.
6. Receive a dot pattern. Adjust picture and brightness to maximum. Repeat steps 3 and 4.
7. Voltage should be less than or equal to 127.3V.
8. If R582 Confirmation Method (HV Hold-down Confirmation) cannot be satisfied, readjustment should be performed by altering the resistance value of R582.

B+ VOLTAGE CONFIRMATION AND READJUSTMENT

The following adjustment should always be performed when replacing the following components IC001, IC602, R030, R626, R632, R633, R635, R636, R637, R638, and R639.

1. Supply 120VAC \pm 2.0VAC \pm 2.0VAC (120-220VAC for models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C) with variable AC transformer.
2. Receive a dot signal. Set picture and brightness to minimum.
3. Enter digital service adjustment mode (see Miscellaneous Adjustment), select PADJ, and adjust for value of 0.
4. Confirm the voltage at the cathode of D620 is less than 125V.
5. If step 4 cannot be satisfied, replace the components. Repeat above steps.
6. Adjust AC supply to 120VAC \pm 2.0VAC (120-220VAC for models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C).
7. Adjust data value of PADJ for 117.0V \pm .3V at the cathode of D620.
8. Write into memory by pressing the mute button then the enter button.

SERVICE INFORMATION

SELF DIAGNOSTIC FUNCTION

This receiver contains a self diagnostic function that will display error codes when problems are detected in certain circuits. The standby indicator on the receiver front will flash to indicate an error has been detected. The way the indicator flashes can be used to determine the location of the error. The error code will be a series of flashes that repeat after 3 seconds. Any errors can also be displayed using the on screen function of the self diagnostics. The following list explains the error codes.

Error Codes

Number Of Flashes	Description Of Code	Possible Malfunction
0	Power does not turn on.	Loss of AC supply or F601 open.
2	High voltage hold down is activated.	Q502 or IC1751 shorted.
4	No vertical deflection.	Failure of IC541 or loss of 13.0V supply to pin 2 of IC541.
5	White balance failure.	Failure of Q392 thru Q394 or IC301. Screen control out of adjustment.

ON SCREEN DISPLAY OF THE SELF DIAGNOSTIC FUNCTION

The on screen display of the self diagnostic function shows a list of the past failures detected. The 2, 4, and 5 rows correspond to the error code flashes described in the above chart. To enter the on screen display, tune in a picture, turn receiver off, and press display, 5, volume (-), and power without allowing time between buttons. The on screen display will be displayed as shown in following drawing. After errors have been corrected clear the on screen display information by pressing 8 and enter buttons. To exit the on screen display, press the power button.

On Screen Display of Self Diagnostic Function

SELF DIAGNOSTICS

2: 0
3: N/A
4: 0
5: 0
101: N/A

MISCELLANEOUS ADJUSTMENTS

DIGITAL SERVICE ADJUSTMENT PROCEDURES

Entering / Exiting the Digital Service Adjustment Mode

1. Tune in a picture and turn receiver off.
2. Press the display button, the 5 button, the volume (+) button, and the power button in sequence. Press each button within a second.
3. The CRT will display the item being adjusted.
4. To exit service adjustment mode, turn receiver off and then on.

Making Adjustments

1. Enter the digital service adjustment mode.
2. Select adjustment by pressing the 1 or 4 button.
3. Make changes on selected adjustment by pressing the 3 or 6 button.

Saving Adjustments to Memory

1. Adjustments must be saved to memory.
2. To save adjustment, press the mute button and then the enter button.

Memory Write Confirmation

1. Disconnect AC plug from outlet.
2. Plug receiver in and enter the digital service adjustment mode.
3. Select adjustment and confirm that setting was saved to memory.

NOTE: Set all adjustments that are not listed in the following adjustment procedures to the nominal value as per Digital Service Adjustment Mode chart.

RF AGC

Tune in a active channel. Adjust AGC control, on TU101, counterclockwise until snow appears and then clockwise until snow just disappears.

HORIZONTAL FREQUENCY CHECK

Connect a frequency counter to the base of Q501. Tune in a colorbar pattern. Enter the digital service adjustment mode. Select AFC and set to 3. Horizontal will lose sync. Horizontal frequency should be 15735Hz ± 200Hz. Select AFC adjustment and set level to 0. Save adjustment to memory.

HORIZONTAL CENTER (HPOS)

Perform horizontal frequency check. Tune in a crosshatch pattern. Enter the digital service adjustment mode. Select HPOS and adjust level for best horizontal centering. Save adjustment to memory.

VERTICAL FREQUENCY CHECK

Select video 1 with no signal. Connect a frequency counter to pin 5 of IC541. Vertical frequency should be 60Hz ± 2Hz.

DISPLAY POSITION (DISP)

Enter the digital service adjustment mode. Select DISP and adjust to center display. Save adjustment to memory.

VERTICAL POSITION (VPOS) AND VERTICAL SIZE (VSIZ)

Tune in a crosshatch pattern. Enter the digital service adjustment mode. Select VPOS and adjust level to center picture vertically. Select VSIZ and adjust level for slight vertical overscan. Save adjustments to memory.

VERTICAL LINEARITY (VLIN) AND VERTICAL CORRECTION

Tune in a crosshatch pattern. Enter the digital service adjustment mode. Select VLIN and adjust level for equal vertical spacing of pattern at top and bottom of screen. Vertical correction will be adjusted automatically for equal vertical spacing of pattern at center of screen. Save adjustments to memory.

SUB BRIGHTNESS (SBRT)

Tune in a crosshatch pattern. Set picture and brightness to minimum. Enter the digital service adjustment mode. Select SBRT and adjust level for visible highlights. Save adjustment to memory.

SUB CONTRAST

Connect an oscilloscope to pin 3 of CN752. Tune in a colorbar pattern. Set picture to maximum and color and brightness to minimum. Enter the digital service adjustment mode. Select RON and set level to 1. Select GON and set level to 0. Select BON and set level to 0. Select RDRV and adjust level so that signal portion of waveform is 1.5V± .05V p-p. Set GON and BON to 1. Save adjustment to memory.

SUB HUE (SHUE), SUB COLOR (SCOL), AND SUB SHARPNESS (SSHP)

Tune in an active channel. Enter the digital service adjustment mode. Select and adjust SHUE and SCOL for proper flesh tones. Select SSHP and adjust for best sharpness. Save adjustments to memory.

B+ ADJUST (PADJ)

Connect a digital voltmeter to the junction of L504 and R571. Enter the digital service adjustment mode. Select PADJ and adjust for 115V ± 2.0V. Save adjustment to memory.

COLOR PURITY

Use a degaussing coil to demagnetize the CRT and mounting brackets. Tune in a green raster signal. Loosen deflection yoke clamp screw and slide deflection yoke backward to obtain a vertical green band. Adjust purity rings to center the vertical green band. Slide the deflection yoke forward until a uniform green screen is obtained. Tune in a blue and red raster signal and check blue and red purity. Tighten the deflection yoke clamp screw.

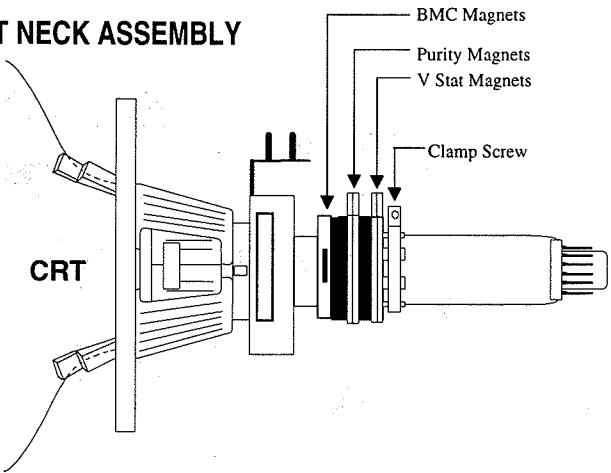
COLOR TEMPERATURE (BCUT, GCUT, GDRV, BDRV)

Tune in a crosshatch pattern. Set picture and brightness to minimum. Adjust screen control for a visible pattern. Enter the digital service adjustment mode. Select GCUT and BCUT and adjust levels for best white balance. Save adjustment to memory. Set picture and brightness to maximum. Select GDRV and BDRV and adjust levels for best white balance. Save adjustments to memory.

CONVERGENCE

Adjust focus and perform vertical position, size, and linearity adjustment. Set brightness to minimum. Tune in a dot pattern. Rotate vertical static magnets to converge red, green, and blue dots vertically at center of screen. If blue dots do not converge with green and red dots, slide BMC magnets in and out to correct for insufficient horizontal static convergence, rotate the BMC magnets to correct for insufficient vertical static convergence. Tune in a crosshatch pattern, loosen deflection yoke clamp screw, and remove rubber wedges between deflection yoke and CRT. Tilt deflection yoke up or down to converge the vertical lines at top and bottom of screen and the horizontal lines at the right and left sides of screen. Tilt deflection yoke right or left to converge vertical lines at the right and left sides of screen and horizontal lines at top and bottom of screen. Apply adhesive to wedges and carefully replace on CRT.

CRT NECK ASSEMBLY

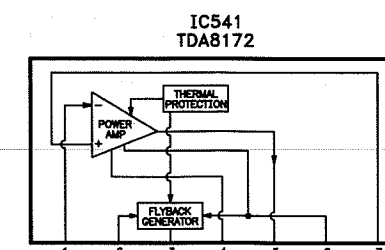


DIGITAL SERVICE ADJUSTMENT MODE

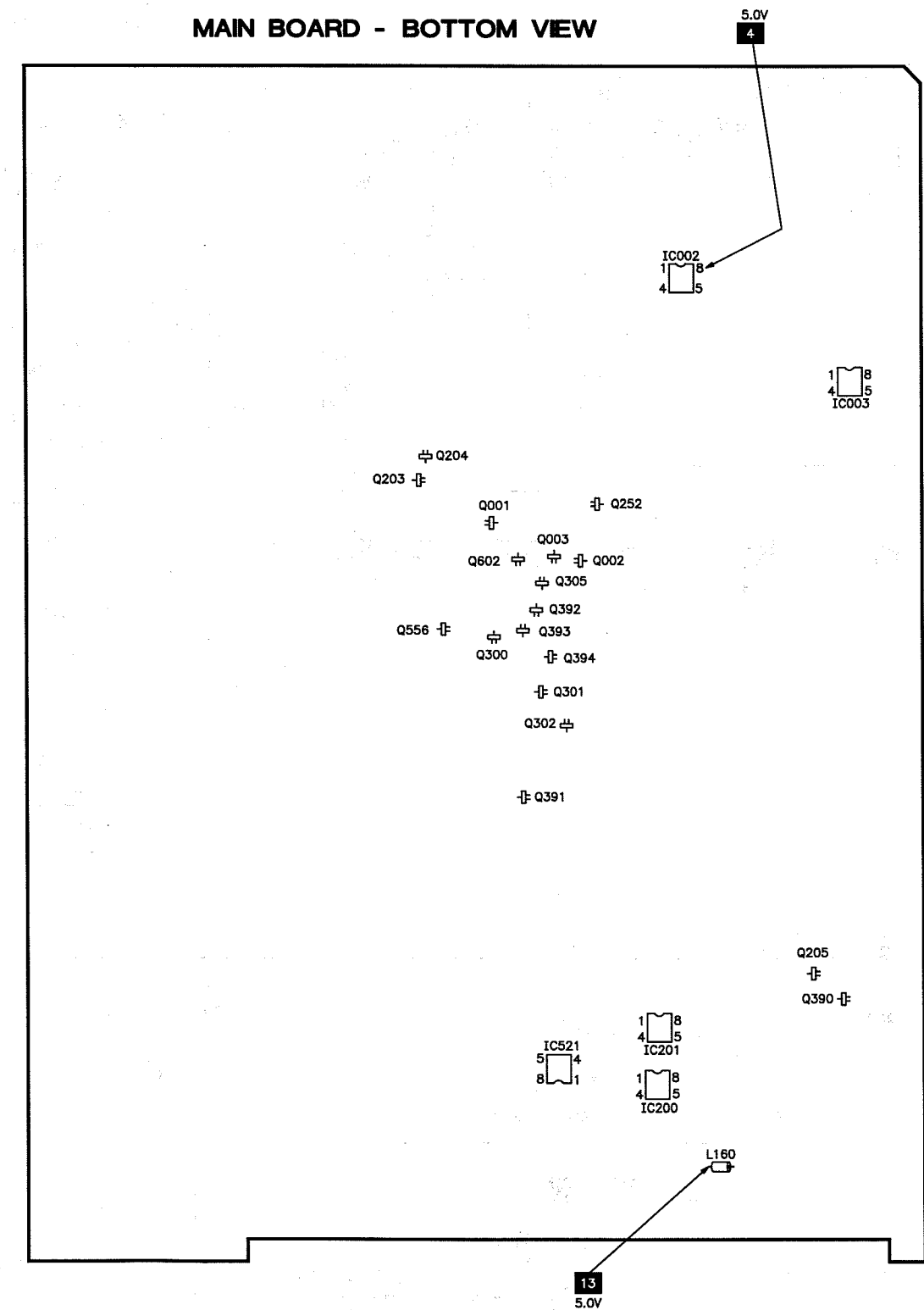
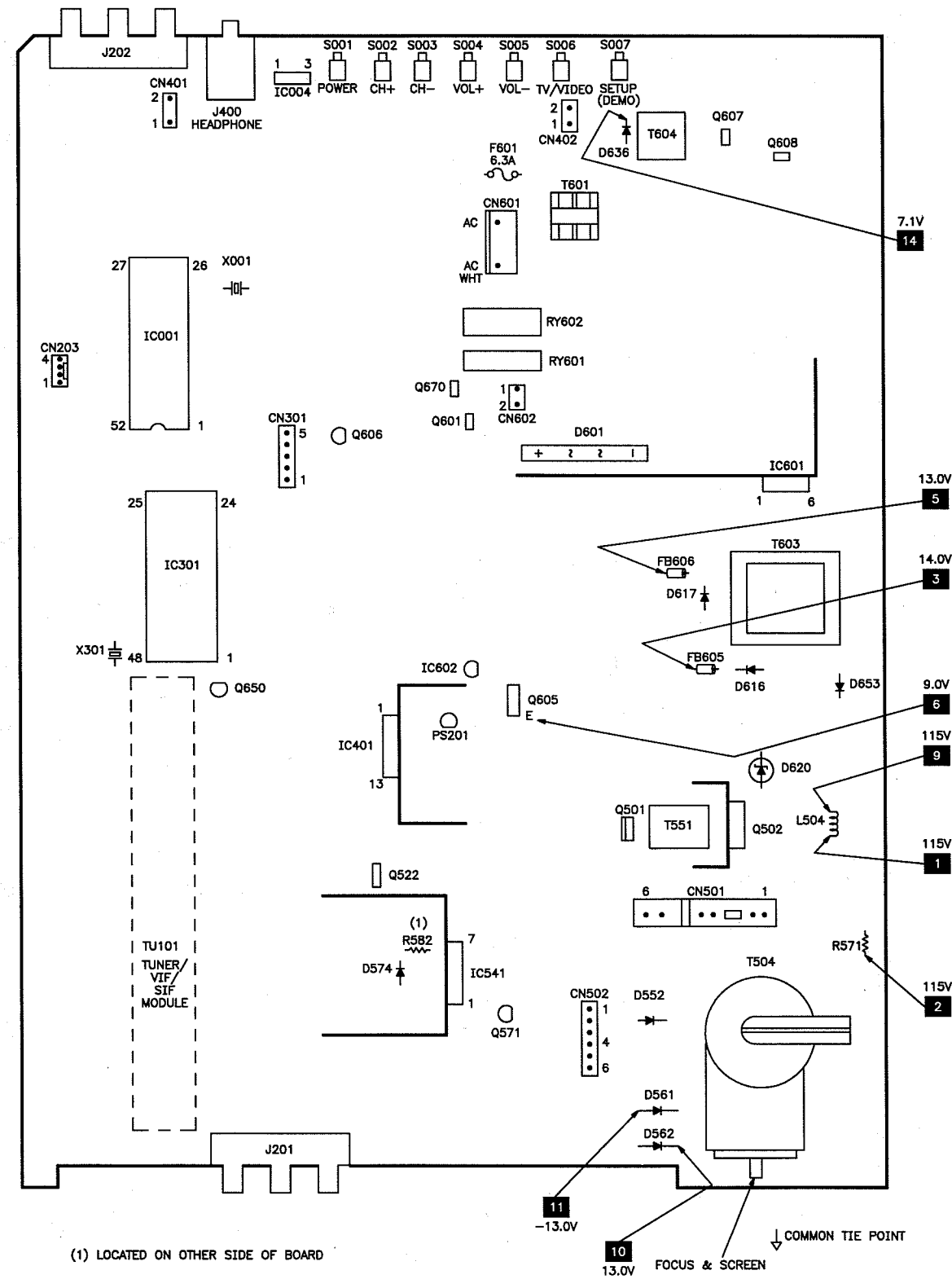
No.	Display	Item	Data Range	Initial Value	On-Set Value
1	HSIZ	Horiz Size	0 - 63	31	31
2	HPOS	Horiz Center	0 - 63	31	23
3	VBOW	Vert Lin Bowing	0 - 15	7	7
4	VANG	Vert Lin Bowing Slant	0 - 15	7	7
5	TRAP	Horiz Trapezoid	0 - 15	7	15
6	PAMP	Horiz Pin Distortion	0 - 63	31	31
7	CPIN	Horiz Pin Distortion Top/Bot	0 - 63	31	31
8	VSIZ	Vert Size	0 - 63	31	44
9	VPOS	Vert Position	0 - 63	31	42
10	VLIN	Vert Linearity	0 - 15	7	7
11	SCOR	Vert Amount	0 - 15	7	6
12	VZOM	16:9 CRT Z Mode	0, 1	0	0
13	EHT	Vert Hi-Volt Correction	0 - 15	7	15
14	ASP	Aspect Ratio Control	0 - 63	63	47
15	SCRL	16:9 CRT Z Mode Scroll	0 - 63	31	31
16	HBLK	RGB Out Width Control	0, 1	0	1
17	LBLK	Left Screen HBLK Control	0 - 15	7	15
18	RBLK	Right Screen HBLK Control	0 - 15	7	3
19	VUSN	V Saw Waveform Compress	0, 1	0	0
20	HDW	Horiz Drive Pulse Width	0, 1	0	1
21	EWDC	EW/DC	0, 1	0	0
22	LVLN	Bottom Vert Linearity	0 - 15	0	0
23	UVLN	Top Vert Linearity	0 - 15	0	0
24	RDRV	Red Drive	0 - 63	31	31
25	GDRV	Green Drive	0 - 63	31	24
26	BDRV	Blue Drive	0 - 63	31	27
27	RCUT	Red Cutoff	0 - 15	7	10
28	GCUT	Green Cutoff	0 - 15	7	1
29	BCUT	Blue Cutoff	0 - 15	7	3
30	DCOL	Dynamic Color	0, 1	0	1
31	SHUE	Sub Hue	0 - 31	14	15
32	SCOL	Sub Color	0 - 31	14	16
33	SBRT	Sub Brightness	0 - 31	14	9
34	RON	Red Out	0, 1	0	1
35	GON	Green Out	0, 1	0	1
36	BON	Blue Out	0, 1	0	1
37	AXPL	Axis PAL	0, 1	0	0
38	AXNT	Axis NTSC	0, 1	0	0
39	CBPF	Chroma BPF	0, 1	0	1
40	CTRP	Y Trap Filter	0, 1	0	0
41	COFF	Color	0, 1	0	0
42	KOFF	Color Killer	0, 1	0	0

43	SSHP	Sub Sharpness	0 - 15	8	9
44	SHPF	Sharpness Circuit F0	0, 1	0	1
No.	Display	Item	Data Range	Initial Value	On-Set Value
45	PREL	Pre/Overshoot Switching	0, 1	0	1
46	Y-DC	DC Trans Ratio Switching	0, 1	0	1
47	GAMM	Gamma Correction Amount	0 - 3	0	0
48	ABLM	ABL Mode Switching	0, 1	1	1
49	VTH	ABL C D VTH Switching	0, 1	0	1
50	YDEL	Y Delay Time Control	0 - 15	7	7
51	NCOL	No Color ID	0, 1	0	1
52	FSC	FSC Out	0, 1	0	0
53	K-ID	Killer ID Control Switching	0, 1	0	0
54	HOSC	Horiz VCO Osc Freq	0 - 15	7	10
55	VSS	Vert Sync Slice Level	0, 1	0	0
56	HSS	Horiz Sync Slice Level	0, 1	0	0
57	HMSK	Horiz Sync Mark Width	0, 1	0	1
58	VTMS	Select Signal Vtim Pin	0 - 3	0	0
59	CDMD	Vert Countdown	0 - 3	0	0
60	AFC	AFC Loop Gain	0 - 3	0	0
61	FIFR	Field Freq	0 - 3	0	3
62	SBAS	Sub Bass	0 - 15	7	7
63	STRE	Sub Treble	0 - 15	7	10
64	SBAL	Sub Balance	0 - 31	14	13
65	DISP	Display Position	0 - 127	0	7
66	PADJ	B+ Adjust	0 - 63	3	48
67	HCHM	-	0 - 255	69	69
68	HCLM	-	0 - 255	16	16
69	HCHS	-	0 - 255	69	69
70	HCLS	-	0 - 255	16	16
71	ID0 (1)	Model Identification	0 - 255	25	25
	ID0 (2)	Model Identification	0 - 255	89	89
	ID0 (3)	Model Identification	0 - 255	17	17
72	ID1	Model Identification	0 - 255	3	3
73	ID2	Model Identification	0 - 255	1	1
74	ID3 (1)	Model Identification	0 - 255	227	227
	ID3 (2)	Model Identification	0 - 255	147	147
	ID3 (3)	Model Identification	0 - 255	195	195
75	ID4 (1)(2)	Model Identification	0 - 255	3	3
	ID4 (3)	Model Identification	0 - 255	115	115
76	ID5	Model Identification	0 - 255	1	1
77	ID6	Model Identification	0 - 255	0	0
78	ID7	Model Identification	0 - 255	0	0

CRT BOARD



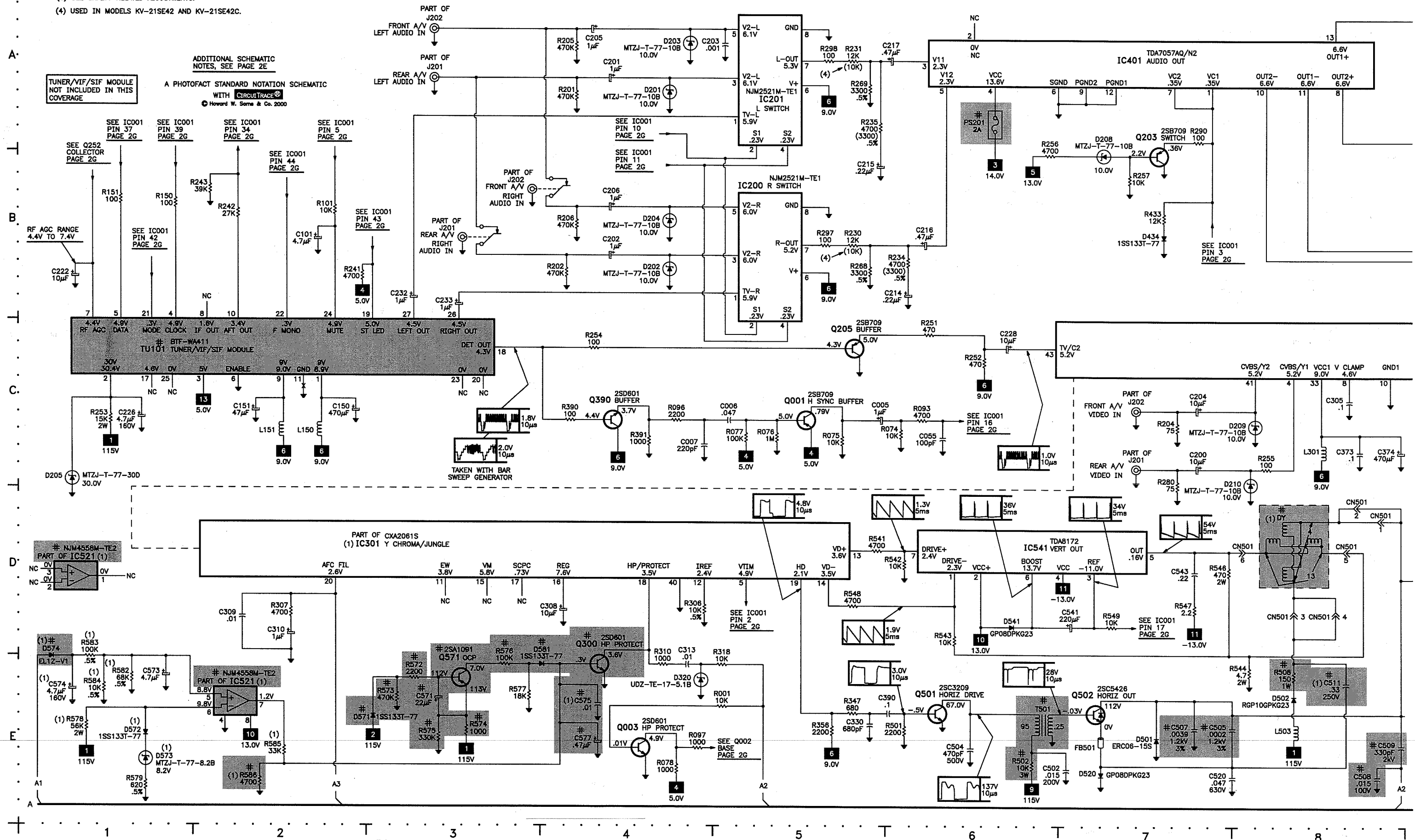
MAIN BOARD - BOTTOM VIEW



(4) USED IN MODELS KV-21SE42 AND KV-21SE42C.

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

OTOFACT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITTRACE®**
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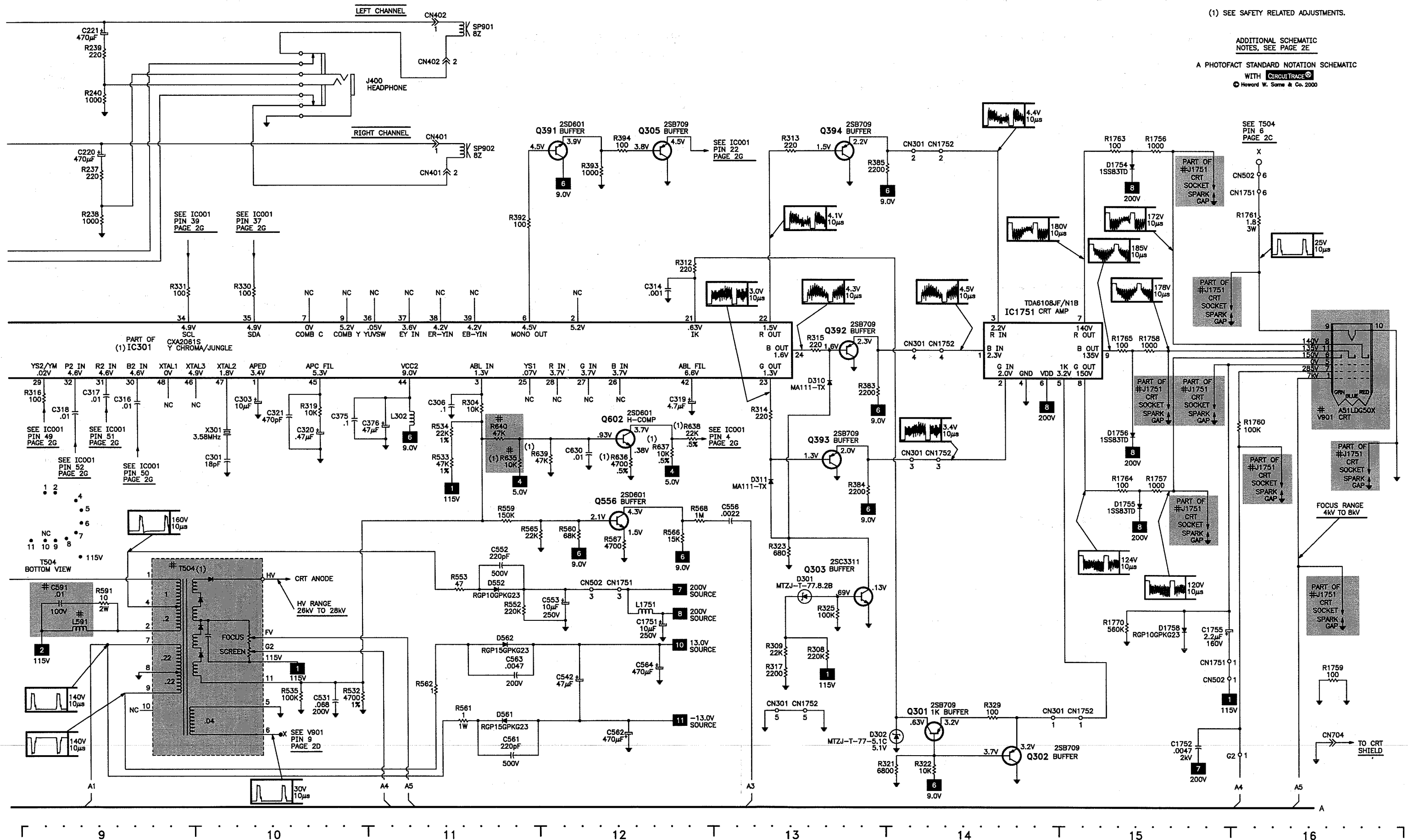


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE[®]**

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TELEVISION SCHEMATIC continued

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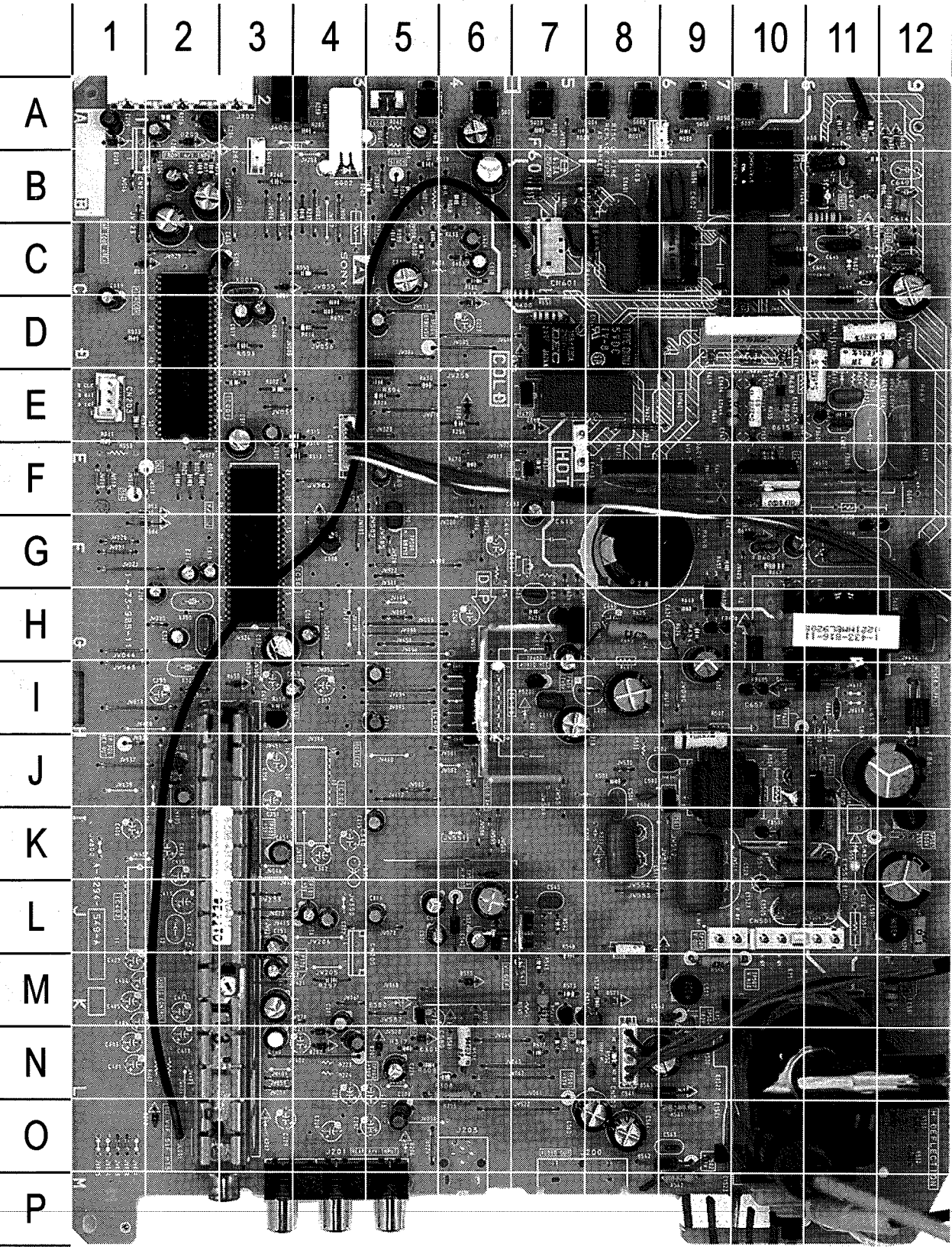
G



C001	C26	C376	C11	D205	D1	L001	E28	R054	B26	R331	B9	R647	C20
C004	D23	C390	E5	D208	B7	L002	A26	R055	C26	R347	E5	R648	C20
C005	C5	C418	C27	D209	C8	L003	D26	R056	B26	R356	E5	R649	C22
C006	C5	C502	E6	D210	D8	L150	C2	R057	D27	R383	C13	R650	D23
C007	C4	C504	E6	D301	D13	L151	C2	R058	A27	R384	D13	R651	B18
C008	C27	C505	E7	D302	E14	L160	C24	R065	E25	R385	B13	R652	A19
C010	D27	C507	E7	D310	C13	L301	C8	R066	E25	R390	C4	R655	C20
C011	B27	C508	E8	D311	D13	L302	C11	R070	B28	R391	C4	R656	C20
C012	B27	C509	E8	D320	E4	L503	E8	R071	B28	R392	B11	R657	C19
C013	C26	C511	E8	D403	C27	L504	A23	R072	D27	R393	B12	R658	A20
C014	B26	C520	E7	D434	B7	L591	D9	R074	C6	R394	B12	R659	A18
C017	D26	C531	E10	D501	E7	L601	B18	R075	C5	R400	C27	R660	A20
C019	D26	C541	D6	D502	E8	L1751	D12	R076	C5	R432	C28	R661	B19
C020	D25	C542	E12	D520	E7	P601	A17	R077	C5	R433	B7	R662	C22
C027	E27	C543	D7	D541	D6	PH600	D19	R078	E4	R501	E6	R663	C20
C028	E27	C552	D11	D552	D11	PS201	A6	R085	D28	R502	E6	R664	A20
C030	D26	C553	D12	D561	E11	Q001	C5	R086	D27	R508	E8	R670	E23
C034	B26	C556	D13	D562	D11	Q002	C25	R087	C27	R532	E10	R671	E23
C037	A26	C561	E11	D571	E3	Q003	E4	R088	B27	R533	C11	R672	B19
C038	A26	C562	E12	D572	E1	Q203	B7	R089	B27	R534	C11	R674	C19
C039	D23	C563	E11	D573	E1	Q205	C5	R090	B25	R535	E10	R675	E23
C046	D26	C564	E12	D574	E1	Q252	A27	R091	E27	R541	D5	R682	E22
C047	D26	C571	E3	D581	E3	Q300	E4	R092	C25	R542	D6	R683	E23
C048	D26	C573	E1	D601	A19	Q301	E14	R093	C6	R543	D6	R688	C19
C050	E27	C574	E1	D602	C18	Q302	E14	R096	C4	R544	E8	R698	B20
C055	C6	C575	E4	D603	C20	Q303	D13	R097	E4	R546	D7	R1756	B15
C060	C26	C576	A24	D609	B20	Q305	B12	R099	C28	R547	D7	R1757	D15
C062	A26	C577	E4	D611	C22	Q390	C4	R101	B2	R548	D5	R1758	C15
C065	A26	C591	D9	D613	C20	Q391	B12	R150	B1	R549	D7	R1759	E16
C072	B27	C601	A17	D614	C20	Q392	C13	R151	B1	R552	D11	R1760	C16
C074	E27	C602	A19	D615	B20	Q393	C13	R201	A4	R553	D11	R1761	B16
C077	C27	C603	B19	D616	B21	Q394	B13	R202	B4	R559	D11	R1763	B15
C091	E26	C604	B19	D617	C21	Q501	E6	R204	C7	R560	D12	R1764	D15
C092	E26	C605	B19	D620	A23	Q502	E7	R205	A4	R561	E11	R1765	C15
C101	B2	C611	A21	D631	D17	Q556	D12	R206	B4	R562	E11	R1770	D15
C150	C2	C613	A20	D632	D17	Q601	C18	R230	B5	R565	D12	RY601	C18
C151	C2	C614	E20	D633	D21	Q602	C12	R231	A5	R566	D12	RY602	B19
C160	C24	C616	A20	D634	E20	Q605	C22	R234	B6	R567	D12	RY602	E24

MODEL KV-20S42 (CHASSIS SCC-S27B-A)

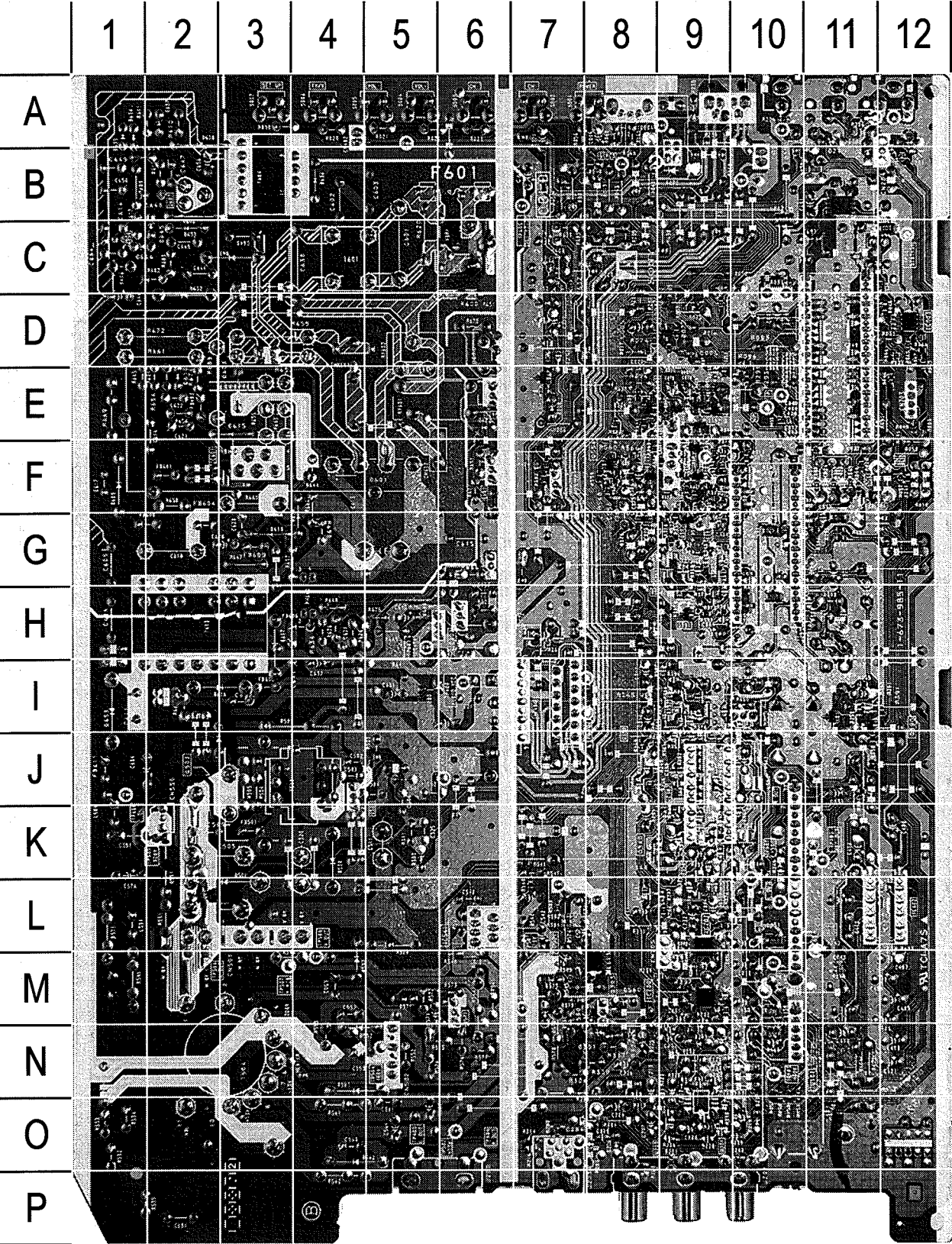
A BOARD - TOP VIEW



A BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C004	A5	C603	B9	D562	O9	R016	D4	R576	N7
C005	D5	C604	H12	D571	M8	R018	B6	R577	N7
C017	D3	C605	G12	D572	M6	R019	B5	R578	N6
C020	D5	C611	I12	D573	M6	R020	A9	R591	M12
C038	B2	C613	G8	D574	L6	R021	A8	R602	C11
C039	D1	C614	C12	D581	N6	R022	A7	R603	C11
C046	D3	C618	G11	D601	F8	R023	A7	R608	B11
C101	J2	C620	G10	D602	E7	R025	F2	R609	B12
C150	M3	C621	E11	D603	E10	R026	F2	R610	A11
C151	L3	C622	E11	D611	H7	R027	F2	R611	A11
C160	N3	C623	H7	D613	G10	R030	C5	R612	B11
C200	O5	C626	C6	D614	F9	R033	D1	R614	B11
C201	M4	C628	G10	D615	E10	R040	B5	R616	C12
C202	N4	C629	I7	D616	I11	R043	B5	R617	C12
C204	A2	C631	I8	D617	H10	R050	C4	R620	C8
C205	A1	C632	I9	D620	J10	R056	A5	R623	H7
C206	A2	C633	F7	D631	C10	R070	B2	R625	H8
C214	L5	C634	J12	D632	C11	R071	B2	R626	H9
C215	K5	C638	C10	D633	C11	R072	D5	R630	E5
C216	I5	C641	H9	D634	A12	R090	A10	R631	F7
C217	I5	C643	C10	D635	A12	R091	E1	R633	C6
C218	I7	C644	C11	D636	B9	R093	D3	R634	H9
C219	I7	C645	C11	D637	A11	R099	C5	R641	H8
C220	C5	C646	C10	D638	A11	R205	A2	R644	F9
C221	A6	C647	B11	D650	I3	R206	A2	R647	G10
C222	M3	C648	B11	D653	I12	R237	B4	R648	H9
C226	N5	C650	B12	D670	D7	R238	A4	R649	H8
C228	H2	C651	K3	F601	B7	R239	A4	R650	I3
C232	L4	C653	I4	FB501	K10	R240	B3	R651	C7
C233	J2	C654	B6	FB600	G11	R242	L2	R655	E10
C234	L4	C656	B11	FB601	F11	R253	N6	R656	E11
C303	H4	C657	I10	FB602	F11	R256	E6	R657	G9
C308	F5	C690	C3	FB604	G11	R293	E3	R659	D10
C310	E3	C691	B2	FB605	I10	R297	M4	R660	F10
C312	H3	C692	B2	FB606	H9	R308	N6	R661	D11
C319	G2	C693	C2	FB609	G10	R309	N5	R662	I11
C320	H2	CN203	E1	FB611	J12	R313	F4	R663	E10
C374	F3	CN301	F4	IC001	E2	R314	F4	R664	F9
C376	G2	CN401	B3	IC004	A5	R315	E4	R670	F6
C390	G5	CN402	A9	IC301	H3	R317	N5	R671	F7
C418	C6	CN501	L11	IC401	I6	R323	F4	R672	D11
C502	J9	CN502	N8	IC541	L7	R324	E5	R674	E11
C504	J8	CN601	C7	IC601	F10	R394	E5	R675	D7
C505	K11	CN602	E7	IC602	H7	R400	B6	R683	C5
C507	L11	D001	C3	J201	P4	R432	C6	R688	E11
C508	J8	D002	A4	J202	A2	R501	J8	RY601	E7
C509	K11	D003	F2	J400	A3	R502	J9	S001	A5
C511	K8	D004	G2	L503	M9	R508	L8	S002	A6
C520	K9	D038	C1	L504	K12	R532	O12	S003	A7
C531	P11	D201	N4	L591	L12	R533	O12	S004	A8
C541	L6	D202	N4	PH600	H9	R534	O12	S005	A8
C542	L6	D203	A1	PS201	I7	R535	P11	S006	A9
C543	L7	D204	B2	Q303	M5	R542	L7	S007	A10
C552	M9	D205	N5	Q501	J9	R543	M7	T501	J9
C553	N9	D208	E6	Q502	J11	R544	M7	T504	N11
C561	O8	D209	A2	Q571	M7	R546	M9	T601	C9
C562	O8	D210	O2	Q601	F7	R547	K6	T603	H11
C563	O9	D301	N5	Q605	I7	R548	M7	T604	B10
C564	O8	D302	G4	Q606	F6	R552	N8	THP601	D8
C571	M8	D403	C6	Q607	B11	R553	N9	TU101	O2
C573	L5	D434	D6	Q608	C12	R561	O9	VDR601	C7
C574	L5	D501	L11	Q650	I3	R562	P9	X001	C3
C576	K12	D502	M9	Q670	E7	R571	L12	X301	H2
C577	F5	D520	K9	R002	E3	R572	M8		
C591	M12	D541	L6	R009	D5	R573	M7		
C601	C8	D552	N9	R011	F1	R574	N8		
C602	B9	D561	N9	R013	B5	R575	N7		

A BOARD - BOTTOM VIEW



A BOARD - BOTTOM VIEW, GRIDTRACE
LOCATION GUIDE

C001	E11	Q002	E9	R235	K9
C006	D9	Q003	E9	R241	F12
C007	D9	Q203	E7	R243	M11
C008	E11	Q205	I11	R251	I12
C010	E11	Q252	E9	R252	I11
C011	E11	Q300	F8	R254	J11
C013	E11	Q301	F9	R255	I11
C014	D11	Q302	G9	R257	E7
C019	D11	Q305	E9	R268	J9
C027	F11	Q390	I11	R269	J8
C028	E11	Q391	H9	R280	O7
C030	D11	Q392	E9	R290	D7
C034	D11	Q393	F9	R291	E10
C037	C11	Q394	F9	R298	L9
C047	D11	Q556	F8	R304	H9
C048	D11	Q602	E8	R306	G10
C050	E11	R001	E9	R307	E9
C055	D11	R003	E12	R310	G8
C060	E11	R004	F11	R312	F9
C062	E11	R005	D9	R316	G11
C065	D11	R007	D9	R318	G8
C072	E11	R008	F11	R319	H11
C074	D11	R010	F12	R321	F9
C077	E11	R017	D8	R322	F9
C091	C10	R028	F11	R325	N8
C092	C10	R031	C10	R329	F9
C203	B12	R032	D12	R330	G11
C236	L9	R038	D10	R331	G11
C243	M11	R044	E12	R347	G9
C301	H11	R045	E12	R356	G9
C305	G10	R046	E12	R383	F8
C306	H10	R047	D12	R384	F8
C309	F9	R048	D12	R385	F9
C311	H9	R049	E12	R390	J11
C313	G8	R051	F12	R391	I12
C314	F10	R054	C12	R392	H9
C316	F11	R055	E10	R393	G9
C317	G11	R057	O10	R433	C7
C318	G11	R058	O10	R541	K7
C321	H11	R065	D12	R549	L7
C330	G9	R066	D12	R559	F8
C373	G10	R074	D8	R560	F8
C375	G10	R075	D9	R565	F8
C556	F8	R076	D9	R566	F8
C575	F8	R077	D9	R567	F8
C630	E9	R078	E9	R568	F8
D310	F9	R085	E8	R579	M7
D311	F9	R086	E8	R582	L7
D320	G8	R087	F11	R583	L7
IC002	B11	R088	F11	R584	L7
IC003	D12	R089	F11	R585	M7
IC200	M9	R092	E9	R586	F8
IC201	L9	R096	D10	R632	C7
IC521	M8	R097	E9	R635	E8
L001	G11	R101	J11	R636	E9
L002	B11	R150	O10	R637	E8
L003	C11	R151	O10	R638	F7
L150	M10	R201	O9	R639	E8
L151	L10	R202	O10	R640	E8
L160	N10	R204	A10	R643	F7
L301	G10	R230	M8	R682	F7
L302	H10	R231	L8		
Q001	D9	R234	L9		

SONY

MODEL KV-20S42 (CHASSIS SCC-S27B-A)

PARTS LIST

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)
- Philips ECG Company (ECG)
- Sencore, Inc.
- Terrell & Nobis (TNI Electronics)

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
D001	MTZJT-5.1C	8-719-921-44	-	-
D002	-	1-810-039-21	-	-
D003, 04	1SS133T-77	8-719-991-33	ECG519	NTE519
D038	-	-	-	-
D201 Thru	MTZJ-T-77-10B	-	ECG5019A	NTE5019A
D204	RD10ESB2	8-719-110-17	ECG5019A	NTE5019A
D205	MTZJ-T-77-30D	-	-	-
D208, 09, 10	MTZJ-T-77-10B	8-719-982-22	-	-
D301	RD10ESB2	8-719-110-17	ECG5019A	NTE5019A
D302	MTZJ-T-77-8.2B	-	-	-
D310, 11	RD8.2EB2	8-719-110-08	ECG5016A	NTE5016A
D320	MTZJ-T-77-5.1C	-	-	-
D403, 34	MTZJ-5.1C	8-719-921-44	-	-
D501	MA111-TX	8-719-404-50	-	-
D502	UDZ-TE-17-5.1B	-	-	-
D520	DTZ5.1B	8-719-976-99	-	-
D541	1SS133T-77	8-719-991-33	ECG519	NTE519
D552	ERC06-15S	8-719-945-80	ECG525	NTE525
D561, 62	RGP10GPKG23	-	ECG552	NTE552
# D571	EL1Z	8-719-302-43	ECG587	NTE587
D572	GP08DPKG23	-	ECG156	NTE156
D573	MDV04-600RL	8-719-067-63	-	-
# D574	GP08DPKG23	-	ECG156	NTE156
# D581	GP08D	8-719-908-03	ECG552	NTE552
# D601	RGP10GPKG23	-	ECG587	NTE587
D602	EL1Z	8-719-302-43	ECG580	NTE580
D603	RGP15GPKG23	-	ECG580	NTE580
D609 (1)	EGP20G	8-719-979-85	ECG519	NTE519
D611	1SS133T-77	8-719-991-33	ECG519	NTE519
D613, 14	1SS133T-77	8-719-991-33	-	-
D615	MTZJ-T-77-8.2B	-	ECG552	NTE552
D616	RD8.2ESB2	8-719-110-08	ECG587	NTE587
D617	EL1Z-V1	-	ECG519	NTE519
D620	EL1Z	8-719-302-43	ECG519	NTE519
D631, 32	1SS133T-77	8-719-991-33	ECG5310	NTE5310
D633	D3SB60F	8-719-510-51	ECG519	NTE519
D634, 35	1SS133T-77	8-719-991-33	-	-
D636	D1NL20U-TA	-	ECG552	NTE552
D637	D1NL20U	8-719-063-70	ECG5019A	NTE5019A
D638	RU-1P	8-719-311-31	ECG5019A	NTE5019A
D650	MTZJ-T-77-10B	-	-	-
D653	RD10ESB2	8-719-110-17	-	-
D670	D1NL20U-TA	-	-	-
D1754, 55, 56	D1NL20U	8-719-063-70	-	-
D1758	D1NS4	8-719-510-02	-	-
	S3L20UF4	8-719-510-73	-	-
	S2L20UF	8-719-027-43	-	-
	EZ0150V1	8-719-057-52	-	-
	ERC04-06S	-	-	-
	U05G	8-719-911-55	ECG5806	NTE5806
	ERA22-08TP3	-	-	-
	ERA22-08	8-719-948-45	ECG125	NTE125
	1SS133T-77	8-719-991-33	ECG519	NTE519
	D1NL20-TA	-	-	-
	D1NL20U	8-719-063-70	-	-
	MTZJ-T-77-6.2C	-	ECG5013A	NTE5013A
	RD6.2ESB2	8-719-109-33	ECG5013A	NTE5013A
	D1N20R-TA	-	-	-
	D1N20R	8-719-510-48	ECG116	NTE116
	MTZJ-T-77-5.6C	-	ECG5011A	NTE5011A
	RD5.6ESB2	8-719-109-89	ECG5011A	NTE5011A
	RU4AM-T3	8-719-312-10	ECG580	NTE580
	1SS133T-77	8-719-991-33	ECG519	NTE519
	1SS83TD	-	ECG177	NTE177
	1SS83	8-719-901-83	ECG177	NTE177
	RGP10GPKG23	-	ECG552	NTE552
	EL1Z	8-719-302-43	ECG587	NTE587

For SAFETY use only equivalent replacement part.
(1) Used in models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
IC001 (3)	M37273MF-252SP	8-759-576-00	-	-
IC001 (3)	M37273MF-25ISP	8-759-562-90	-	-
IC002	NJM78LR05BM-TE2	8-759-575-47	-	-
IC003	M24C04-MN6T	8-759-527-75	-	-
IC200	NJM2521M-TE1	8-759-450-93	-	-
IC201	NJM2521M-TE1	8-759-450-93	-	-
IC301	CXA2061S	8-752-083-09	-	-
IC401	TDA7057AQ/N2	8-759-490-17	-	-
# IC521	NJM4558M-TE2	8-759-100-96	ECG778SM	NTE778SM
IC541	TDA8172	8-759-980-58	ECG1788	NTE1788
# IC601 (2)	STR-F6624	8-749-015-60	-	-
# IC601 (1)	STR-F6654	8-749-013-75	-	-
# IC602	UPC1093J1-1-T	8-759-198-31	-	-
IC1751	TDA6108JF/N1B	8-759-562-43	-	-
# PH600	PCI23F-Y2	-	-	-
	PCI23F2	8-749-010-64	-	-
Q001	2SB709A-QRS-TX	8-729-216-22	ECG2409	NTE2409
Q002, 03	2SD601A-QRS-TX	8-729-422-27	ECG2408	NTE2408
Q203, 05	2SB709A	-	ECG2409	NTE2409
	2SA1162-G	8-729-216-22	ECG2409	NTE2409
Q252	2SD601A	-	ECG2408	NTE2408
	2SD601A-Q	8-729-422-27	ECG2408	NTE2408
# Q300	2SD601A	-	ECG2408	NTE2408
	2SD601A-Q	8-729-422-27	ECG2408	NTE2408
Q301, 02	2SB709A	-	ECG2409	NTE2409
	2SA1162-G	8-729-216-22	ECG2409	NTE2409
Q303	2SC3311A	-	ECG2361	NTE2361
	2SC2785-HFE	8-729-119-78	ECG2361	NTE2361
Q305	2SB709A	-	ECG2409	NTE2409
	2SA1162-G	8-729-216-22	ECG2409	NTE2409
Q390, 91	2SD601A	-	ECG2408	NTE2408
	2SD601A-Q	8-729-422-27	ECG2408	NTE2408
Q392, 93, 94	2SB709A	-	ECG2409	NTE2409
	2SA1162-G	8-729-216-22	ECG2409	NTE2409
Q501	2SC3209LK-TP	-	-	-
	2SC3209LK	8-729-140-50	ECG399	NTE399
Q502	2SC5426-01	8-729-043-43	-	-
Q556	2SD601A	-	ECG2408	NTE2408
	2SD601A-Q	8-729-422-27	ECG2408	NTE2408
# Q571	2SA1091-O	8-729-200-17	ECG288	NTE288
Q601	2SC3311A	-	ECG2361	NTE2361
	2SC2785-HFE	8-729-119-78	ECG2361	NTE2361
Q602	2SD601A	-	ECG2408	NTE2408
	2SD601A-Q	8-729-422-27	ECG2408	NTE2408
Q605	2SD2137-OP-TA	-	-	-
	2SD2137-OP	8-729-423-99	-	-
Q606	2SD1292	-	ECG31	NTE31
	2SD1312-K	8-729-111-55	ECG31	NTE31
Q607	2SK2845-LB102	8-729-044-30	-	-
Q608	2SC3311A	-	ECG2361	NTE2361
	2SC2785-HFE	8-729-119-78	ECG2361	NTE2361
Q650	2SD1292	-	ECG31	NTE31
	2SD1312-K	8-729-111-55	ECG31	NTE31
Q670	2SD774-T-34	-	ECG382	NTE382
	2SD774-34	8-729-140-96	ECG382	NTE382

For SAFETY use only equivalent replacement part.
(1) Used in models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C.
(2) Used in models KV-20S42 and KV-20S43.
(3) CPU not interchangeable, replace with same type number as in unit.

PARTS LIST continued

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
# C505	.0002 3% 1.2kV	1-117-626-11
# C507	.0039 3% 1.2kV	1-117-633-11
# C508	.015 20% 200V	1-106-371-00
# C509	330pF 10% 2kV	1-162-115-00
# C511	.33 5% 250V	1-117-665-11
# C571	22µF 20% 50V	1-126-965-11
# C575	.01 10% 50V	1-163-021-91
# C577	.47µF 20% 50V	1-126-959-11
# C591	.01 10% 100V	1-137-150-11
# C601 (1)	.47 20% 125VAC	1-136-311-51
# C601 (2)	.47 20% 300V	1-136-311-61
# C602 Thru		
# C605	.0047 250V	
	.0047 20% 125V	1-113-941-11
C611	.001 2kV	-
	.0015 2kV	1-125-772-91
C613 (1)	470µF 20% 250V	1-117-893-11
C613 (2)	330µF 20% 400V	1-128-714-11
C617 (2)	220pF 5% 1kV	1-107-824-11
C618	680pF 3% 1.5kV	-
	.0016 3% 2kV	1-136-619-11
C1752	.0047 2kV	1-162-114-00

For SAFETY use only equivalent replacement part.
(1) Used in models KV-20S42 and KV-20S43.
(2) Used in models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C.

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
# DY	Yoke Horiz 2.43mH Vert 24mH	8-451-440-21
FB501	Ferrite Bead	1-410-396-41
FB600, 01, 02	Ferrite Bead	1-410-397-21
FB604, 05, 06	Ferrite Bead	1-410-397-21
FB609	Ferrite Bead	1-412-911-11
FB611	Ferrite Bead	1-410-397-21
L001	10µH	1-414-267-11
L002, 03	100µH	1-414-273-11
L150	100µH	1-414-273-11
L151	10µH	1-414-267-11
L160	10µH	1-414-267-11
L301	47µH	1-414-271-11
L302	10µH	1-414-267-11
L503	3.3µH	1-412-553-11
L504	47µH	1-412-533-21
# L591	33µH	1-412-531-31
# L601 (1)	Degaussing	1-416-572-21
# L601 (2)	Degaussing	1-416-951-11
L1751	68µH	1-408-613-31
# T501	Horizontal Drive	1-437-210-11
# T504 (3)	Horizontal Output	1-453-283-21
# T601	Line Filter	1-423-895-11
# T603 (1)	Converter PIT	1-433-816-11
# T603 (2)	Converter PIT	1-433-817-11
# T604	Converter	1-431-852-11

For SAFETY use only equivalent replacement part.
(1) Used in models KV-20S42 and KV-20S43.
(2) Used in models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C.
(3) Screen and focus controls are part of T504.

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R234, 35	4700 .5% 1/10W	-	-
	3300 .5% 1/10W	1-208-794-11	-
R268, 69	3300 .5% 1/10W	1-208-794-11	-
R306	10K .5% 1/10W	1-216-675-11	-
# R502	10K 5% 3W Nonflammable	1-215-923-00	3W310
# R508	150 5% 1W Nonflammable	1-215-864-00	1W115
R532	4700 1% 1/4W	1-215-437-00	-
R533	47K 1% 1/4W	1-215-461-00	-
R534	22K 1% 1/4W	1-215-453-00	-
# R571	1 5% 2W Nonflammable	1-216-369-00	2W1D0
# R572	2200 5% 1/4W	1-249-421-11	-
# R573	470K 5% 1/4W	1-247-895-91	QW447
# R574	1000 5% 1/4W Nonflammable	1-249-417-11	QW210
# R575	330K 5% 1/4W	1-247-891-00	QW433
# R576	100K 5% 1/4W	1-249-441-11	QW410
R579	620 .5% 1/10W	1-208-777-11	-
R582	68K .5% 1/10W	1-208-826-11	-
R583	100K .5% 1/10W	1-208-830-11	-
R584	10K .5% 1/10W	1-208-806-11	-
# R586	6800 5% 1/10W	1-216-069-00	-
# R625	2200 1% 1/4W	1-215-429-00	-
# R626	100K 1% 1/4W	1-215-469-00	-
R633	33K 1% 1/4W	1-215-457-00	-
# R635	10K 5% 1/10W	1-216-073-00	-
R636	4700 .5% 1/10W	1-208-798-11	-
R637	10K .5% 1/10W	1-208-806-11	-
R638	22K .5% 1/10W	1-208-814-91	-
# R640	47K 5% 1/10W	1-216-089-91	-
R641	4.7 5% 3W Nonflammable	1-216-397-11	3W4D7
# R651 (1)	4.7M 5% 1/2W	1-219-513-11	HW547
# R651 (2)	8.2M 5% 1W	1-247-298-00	1W582
R652 (3)	1.8 5% 10W Wirewound	1-202-961-11	10W1D8
R658	100K 5% 3W Nonflammable	1-215-929-11	3W410
# R659	1.8 5% 10W Wirewound	1-202-961-11	10W1D8
# R660	.47 10% 1/2W Fusible Nonflammable	-	-
	.1 10% 1/2W Fusible Nonflammable	1-202-933-61	-
R661	5600 5% 3W Nonflammable	1-216-485-11	3W256
R664 (1)	390K 1% 1/4W	1-215-483-00	-
R664 (2)	270K 1% 1/4W	1-215-479-00	-
R672, 88	5600 5% 3W Nonflammable	1-216-485-11	3W256
R698 (2)	270K 1% 1/4W	1-215-479-00	-
R1761	1.8 5% 3W Nonflammable	1-216-392-11	3W1D8
THP601 (1)	5.3 Cold PTC	1-810-597-11	-
THP601 (2)	PTC	1-803-540-11	-
# VDR601 (1)	Varistor ERZV10D271	1-803-585-11	-
# VDR601 (2)	Varistor ERZV10D471	1-803-587-11	-

For SAFETY use only equivalent replacement part.
(1) Used in models KV-20S42 and KV-20S43.
(2) Used in models KV-21SB42C, KV-21SB42M, KV-21SE42, and KV-21SE42C.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
# F601 (1)	Fuse	1-532-506-51	6.3A, Fast Acting
# F601 (2)	Fuse	1-533-795-11	6.3A, Fast Acting
IC004	Receiver	8-742-014-11	Remote, SBX1981-51
J201	Jack	1-580-443-11	Assembly
J202	Jack	1-691-110-11	Assembly
J400	Jack	1-568-267-21	Headphone
# J1751	Socket	1-251-688-11	CRT
# P601 (3)	Line Cord	1-790-001-21	AC, Polarized
# P601 (4)	Line Cord	1-790-316-31	AC, Polarized
# P601 (5)	Line Cord	1-751-057-11	AC, Polarized
# P601 (6)	Line Cord	1-769-796-71	AC, Polarized
# PS201	Fuse Link	1-532-984-11	2A, 90V
# RY601	Relay	1-755-018-11	Degaussing
# RY602	Relay	1-755-266-11	Power
S001	Switch	1-692-431-21	Power
S002	Switch	1-692-431-21	Channel +
S003	Switch	1-692-431-21	Channel -
S004	Switch	1-692-431-21	Volume +
S005	Switch	1-692-431-21	Volume -
S006	Switch	1-692-431-21	TV/Video
S007	Switch	1-692-431-21	Setup (Demo)
SP901, 02 (7)	Speaker	1-505-831-11	2" X 3 1/2", 8 Ohms, 4W
SP901, 02 (8)	Speaker	1-505-930-11	2" X 3 1/2", 8 Ohms
# TU101 (9)	Module	8-598-431-00	Tuner/VIF/SIF, VHF/UHF, BTF-WA411
# V901 (6)	CRT	8-738-781-05	-
# V901 (10)	CRT	8-738-768-05	A51LDG50X
X001	Crystal	1-767-487-11	8MHz
X301	Crystal	1-567-505-11	3.58MHz
	Fuse Holder	1-533-223-11	For F601 (2 Used)
	Magnet	1-452-277-00	BMC
	Magnet	4-051-735-22	Convergence & Purity
	Magnet	1-452-032-00	Disc
	PC Board (11)	A-1298-893-A	A
	PC Board (2)	A-1298-883-A	A
	PC Board (8)	A-1298-832-A	A
	PC Board	A-1331-917-A	C
	Transmitter (12)	-	Remote, RM-Y155
	Transmitter (4)	-	Remote, RM-Y156W
	Wedge	4-053-005-01	Yoke Positioning (3 Used)

For SAFETY use only equivalent replacement part.
(1) Used in models KV-20S42, KV-20S43, KV-21SE42, and KV-21SE42C.
(2) Used in models KV-21SB42C and KV-21SB42M.
(3) Used in model KV-20S42.
(4) Used in model KV-20S43.
(5) Used in models KV-21SB42M and KV-21SE42.
(6) Used in models KV-21SB42C and KV-21SE42C.
(7) Used in models KV-20S42, KV-20S43, KV-21SB42C, and KV-21SB42M.
(8) Used in models KV-21SE42 and KV-21SE42C.
(9) Contact TNI Electronics for replacement; order by manufacturer's part number.
(10) Used in models KV-20S42, KV-20S43, KV-21SB42M, and KV-21SE42.
(11) Used in models KV-20S42 and KV-20S43.
(12) Used in models KV-20S42, KV-21SB42C, KV-21SB42M, KV-21SE42C, and KV-21SE42C.

CABINET PARTS

Item	Mfr. Part No.
Model KV-20S42	
Beznet Assembly	X-4035-309-1
Button Assembly	4-062-597-01
Cover Rear	4-062-598-04
Door	4-062-596-21
Emblem (SONY)	4-046-161-01
Guide LED	4-062-599-01

Model KV-20S43	
Beznet Assembly	X-4036-797-1
Button Assembly	4-062-597-11
Cover Rear	4-062-598-44
Door	4-062-596-11
Emblem (SONY)	4-046-161-01
Guide LED	4-062-599-01

Model KV-21SB42C	
Beznet Assembly	X-4035-309-1
Button Assembly	4-062-597-01
Cover Rear	4-062-598-04
Door	4-062-596-21
Emblem (SONY)	4-046-161-01
Guide LED	4-062-599-01

Model KV-21SB42M	
Beznet Assembly	X-4035-309-1
Button Assembly	4-062-597-01
Cover Rear	4-062-598-04
Door	4-062-596-21
Emblem (SONY)	4-046-161-01
Guide LED	4-062-599-01

Model KV-21SE42	
Beznet Assembly	X-4036-730-1
Button Assembly	4-062-603-11
Cover Rear	4-062-602-03
Door	4-062-604-01
Emblem (SONY)	4-046-161-01
Guide LED	4-062-607-01

Model KV-21SE42C	
Beznet Assembly	X-4036-730-1
Button Assembly	4-062-603-11
Cover Rear	4-062-602-03
Door	4-062-604-01
Emblem (SONY)	4-046-161-01
Guide LED	4-062-607-01

SONY

MODEL KV-20S42 (CHASSIS SCC-S27B-A)