

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.

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

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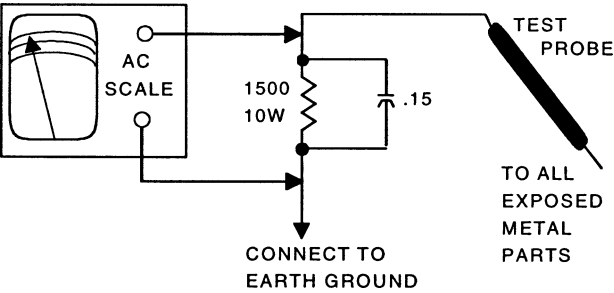
SAFETY CHECKS — FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



UPC  
HERE

02PF01948

PHOTOFACT<sup>®</sup> Technical Service Data  
SILVER

SET 4597

MODEL KV-36XBR250 (CHASSIS SCC-S32F-A)

SONY

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SONY  
Model KV-36XBR250 (Chassis SCC-S32F-A)



Representative Model

Essential coverage  
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
KV-32XBR250	SCC-S32E-A
KV-32XBR250	SCC-S33E-A
KV-36XBR250	SCC-S33F-A



JUNE 2002 SET 4597

## SAFETY RELATED ADJUSTMENTS

### R530 AND R531 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

The following adjustments should always be performed when replacing the following components: IC351, IC355, IC501, IC643, D302, D519, D520, D521, DY, C531, C532, Q301, R356, R359, R361, R387, R529, R530, R531, R532, R533, R550, R661, and T503.

#### Hold-down Operation Confirmation

NOTE: Turn power off immediately when hold-down circuit begins to operate (picture blanks out).

1. Supply 120VAC +2.0VAC/-0VAC with variable AC transformer.
2. Turn the power on, receive a white signal, set picture and brightness settings to maximum.
3. Confirm that the voltage at the cathode of D519 is more than 23.0V.
4. Connect a current meter to pin 11 of T503. Turn receiver on and tune in a white signal. Using the picture and brightness settings, adjust ABL current to 2062.5μA ± 100μA.
5. Connect a voltmeter and a variable DC power supply to the cathode of D519.

6. Increase the voltage at the cathode of D519 gradually until picture just blanks out.
7. Check DC voltage, it should measure less than 22.05V +0V/-0.1V after picture has blanked out. Remove power to receiver immediately after confirming voltage.

#### Hold-down Readjustment

If steps 3 or 7 of the Hold-down Operation Confirmation procedure cannot be satisfied, readjustment should be performed by altering the resistance value of R530 and R531.

### B+ VOLTAGE CONFIRMATION

The following adjustment should always be performed when replacing IC643 or R661.

1. Supply 120VAC +2.0VAC/-0VAC with variable AC transformer.
2. Receive a monoscope signal.
3. Set picture and brightness settings to initial reset position.
4. Confirm that the voltage at pin 1 of CN641 is less than 136V ±1.0V.
5. If step 4 cannot be satisfied, replace IC643 or R661, and repeat above steps until results are satisfactory.

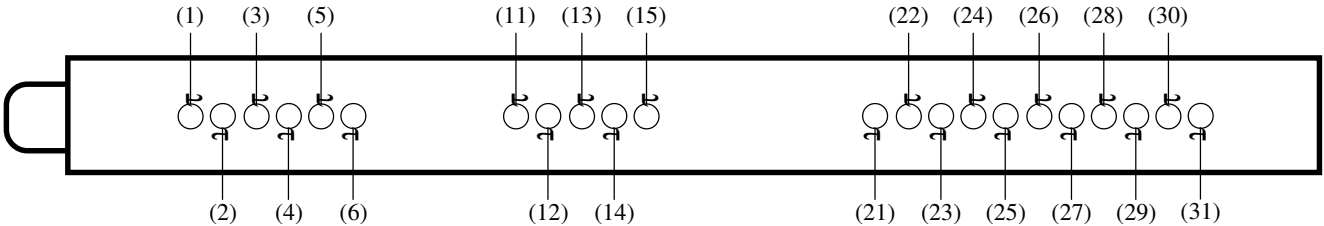
## TUNER INFORMATION

### TU102 MAIN TUNER VOLTAGE CHART

Pin	Pin Name	Voltage	Pin	Pin Name	Voltage	Pin	Pin Name	Voltage
(1)	9V	8.7V	(13)	9V	8.8V	(25)	MODE	0V
(2)	30V	33.0V	(14)	AFT OUT	3.8V	(26)	F MONO	0V
(3)	5V	5.0V	(15)	GND	0V	(27)	5V	5.0V
(4)	SCL	4.7V	(21)	DET OUT 2	4.7V	(28)	MUTE	0V
(5)	SDA	4.7V	(22)	DET OUT	4.2V	(29)	NC	0V
(6)	AS	0V	(23)	ST IND	.91V	(30)	R OUT	4.5V
(11)	RF AGC	4.6V	(24)	SAP IND	5.0V	(31)	L OUT	4.5V
(12)	VIF	0V						

NOTE: Voltages do not change on different bands.

### TU102 MAIN TUNER TERMINAL GUIDE

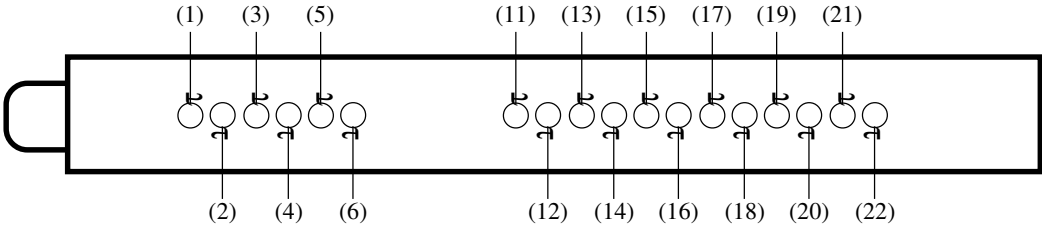


### TU101 SUB TUNER VOLTAGE CHART

Pin	Pin Name	Voltage	Pin	Pin Name	Voltage	Pin	Pin Name	Voltage
(1)	VCC9V	9.0V	(11)	RF AGC	4.1V	(17)	VOL	0V
(2)	VCC30V	33.0V	(12)	VIF	1.6V	(18)	OUT AF	4.7V
(3)	5V	5.0V	(13)	9V	9.0V	(19)	IN AF	2.9V
(4)	SCL	4.7V	(14)	OUT AFT	3.9V	(20)	OUT DE-EN	3.8V
(5)	SDA	4.7V	(15)	GND	0V	(21)	MUTE	0V
(6)	AS	0V	(16)	NC	0V	(22)	DET OUT	4.6V

NOTE: Voltages do not change on different bands.

### TU101 SUB TUNER TERMINAL GUIDE



DIGITAL SERVICE ADJUSTMENT CHART

NOTES:

Codes: A = Adjust; F = Fixed (do not adjust); FM = Fixed by Model.  
Before making any changes to the On-Set Value, make a record of the On-Set Values. After making any repair or changes to the On-Set Values, press the 8 and enter buttons on the remote to save the changes.

NOTES:

Codes: A = Adjust; F = Fixed (do not adjust); FM = Fixed by Model.

Before making any changes to the On-Set Value, make a record of the On-Set Values. After making any repair or changes to the On-Set Values, press the 8 and enter buttons on the remote to save the changes.

No.	Display	Item	Data Range	Initial Value	On-Set Value	Code	No.	Display	Item	Data Range	Initial Value	On-Set Value	Code	No.	Display	Item	Data Range	Initial Value	On-Set Value	Code
AP (Audio Processor)							3D COMB continued							SP continued						
67	BBLP	BBE Low Pass	0 - 15	5	5	F	137	HPLL	Horizontal PLL Filter	0, 1	1	1	F	206	MAT2	PIP MAT2	0, 1	0	0	F
68	BBHP	BBE High Pass	0 - 15	3	3	F	138	BPLL	Burst PLL Filter	0, 1	0	0	F	207	IPER	PIP Pedastal R - Y	0 - 15	0	0	F
69	SVOL	Sub Volume	0 - 15	7	7	F	139	FSCF	Burst Extraction Gain	0, 1	0	0	F	208	IPEB	PIP Pedastal B - Y	0 - 15	0	0	F
70	SBAL	Sub Balance	0 - 15	7	7	F	140	PLLF	PLL Loop Gain	0, 1	1	1	F	209	PCPS	PIP CLP & HSIDEL	0, 1	0	0	F
71	SBAS	Sub Bass	0 - 15	8	8	F	141	KILR	Killer Detection Reference	0 - 15	3	3	F	210	PCPF	PIP CLP Cycles	0, 1	0	0	F
72	STRE	Sub Treble	0 - 15	8	8	F	142	HSSL	Horizontal Sync Slice Level	0 - 15	12	12	F	211	PSEL	PIP SELDOWN	0, 1	1	1	F
SRS							143	VSSL	Vertical Sync Slice Level	0 - 15	8	8	F	212	PPLL	PIP PLL Filter	0 - 3	0	0	F
73	SPCA	SRS Space Attenuation	0 - 63	0	0	F	144	BGPS	Burst Gate Start Position	0 - 15	4	4	F	213	PVNR	PIP VSP Pulse Noise Red	0, 1	0	0	F
74	CENA	SRS Center Attenuation	0 - 63	0	0	F	145	BGPW	Internal Burst Gate Pulse Width	0 - 15	10	10	F	IC						
75	INPA	Input Attenuation	0 - 127	3	3	F	146	ADCL	ADC Clock Delay	0 - 3	3	3	F	214	IDPX	-	0, 1	0	0	F
3D COMB							147	ADPD	ADC Power Down On	0, 1	1	1	F	215	ICOL	Color	0 - 63	38	38	F
76	HHDS	HH Off	0 - 3	1	1	F	148	ADLT	Standard	0, 1	0	0	F	216	ISHP	Sharpness	0 - 15	10	10	F
77	COUT	Chrom Signal Gain / BPF On	0 - 3	3	3	F	149	NRZO	Check On	0, 1	0	0	F	217	ISCO	Sub Chroma Decoder Sub Contrast	0 - 15	7	7	F
78	YAPS	Y V - Compensation/Peaking On	0 - 3	3	3	F	150	FSCO	Level Check On	0, 1	0	0	F	218	ISCL	Sub Chroma Decoder Sub Color	0 - 15	12	9	F
79	NSDS	Standard/Non-standard Processing	0 - 3	0	0	F	151	VT VH	Normal	0 - 3	0	0	F	219	ISHU	Sub Chroma Decoder Sub Hue	0 - 15	7	7	F
80	MSS	Inter-frame/Inter-line Mode	0 - 3	0	0	F	152	TST2	Standard	0, 1	0	0	F	220	ITOT	Sub Chroma Decoder Tot On	0 - 7	7	7	F
81	DYC	HI Impedence	0 - 3	2	2	F	153	HMEM	Use	0, 1	1	1	F	221	ITRP	Sub Chroma Decoder Trap On	0, 1	1	1	F
82	EXAD	External ADC Insert	0, 1	1	1	F	154	HINV	Polarity of Reset	0, 1	1	1	F	222	IAFC	AFC	0 - 3	0	0	F
83	PECS	Pedestal Error Correction	0 - 3	0	0	F	155	HTMG	Field Memory Address	0, 1	0	0	F	223	ITRA	Sub Chroma Decoder CTRAP Adjust	0 - 15	7	7	F
84	EXCS	C Sync Input	0 - 3	1	1	F	156	HCP	HH Carrier Phase	0 - 15	7	7	F	224	ICD2	Sub Chroma Decoder CD Mode2	0, 1	1	1	F
85	CPP	Y ADC Amplitude/Clamp Method	0 - 3	0	0	F	157	TST3	Test	0, 1	0	0	F	225	ISF0	SHP - F0	0, 1	1	1	F
86	HDP	H Phase Fine Adjustment	0 - 7	3	3	F	158	HMHG	HH Moving Gain	0, 1	1	1	F	226	IYDR	Sub Chroma Decoder Y Drive	0 - 31	24	24	F
87	CDL	Output Delay Fine Adjustment	0 - 7	4	4	F	159	HHFG	HH	0 - 3	0	0	F	227	IVPE	Sub Chroma Decoder V Ped	0 - 15	0	0	F
88	DYCO	Y Moving Coring Level	0 - 15	2	2	F	160	HHTG	Max HH	0 - 15	5	5	F	228	IUPE	Sub Chroma Decoder U Ped	0 - 15	0	0	F
89	DYGA	Y Moving Coring Gain	0 - 15	10	10	F	PIC IMP						229	IRVP	Sub Chroma Decoder RV Ped	0 - 15	7	7	F	
90	DCCO	C Moving Coring Level	0 - 15	2	2	F	161	SHPR	Controls both DL APACON and SRT	0 - 127	59	59	F	230	IRUP	Sub Chroma Decoder RU Ped	0 - 15	4	7	F
91	DCGA	C Moving Coring Gain	0 - 15	9	9	F	162	BLAD	Black Area Detect	0 - 3	0	0	F	231	IDCT	Sub Chroma Decoder DC Tran	0 - 7	6	6	F
92	YNRK	YNR Non-linear Filter Gain	0, 1	1	1	F	163	SRTS	SRT Start Amplitude	0 - 3	3	3	F	232	IRYD	Sub Chroma Decoder RY Drive	0 - 31	19	19	F
93	YNRI	YNR Non-linear Filter Convergence	0, 1	0	0	F	164	YNR	Controls YNR ON/OFF	0, 1	1	1	F	233	IPRE	Sub Chroma Decoder Pre Over	0 - 3	1	1	F
94	YNRL	YNR Non-linear Filter Limit Level	0 - 3	1	1	F	165	GIRE	Gamma Correction Start Point	0 - 3	3	3	F	234	IRUD	Sub Chroma Decoder RU Drive	0 - 31	8	8	F
95	CNRK	CNR Non-linear Filter Gain	0, 1	1	1	F	166	DAC1	1 bit DAC Output	0, 1	0	0	F	235	IRVD	Sub Chroma Decoder RV Drive	0 - 31	8	8	F
96	CNRI	CNR Non-linear Filter Convergence	0, 1	0	0	F	167	DAC2	1 bit DAC Output	0, 1	0	0	F	236	IDLY	Sub Chroma Decoder Delay	0 - 3	0	0	F
97	CNRL	CNR Non-linear Filter Limit Level	0 - 3	1	1	F	168	GCUR	Controls Curve of Gamma Correction	0, 1	0	0	F	237	ISCR	Sub Chroma Decoder SCP BGR	0 - 3	1	1	F
98	ID1O	ID - 1 Superimpose Signal	0, 1	0	0	F	169	BLKC	Black Compensation	0, 1	1	1	F	238	ISCF	Sub Chroma Decoder SCP BGF	0 - 3	1	1	F
99	ID1W	Specifies bit A1 of Word 0	0, 1	0	0	F	170	TEST	Test Bit	0 - 3	3	3	F	DAC						
100	ID1N	Specifies bit A2 of Word 0	0, 1	0	0	F	171	RS	Gain of DL APACON at 8MHz Peak	0 - 7	0	0	F	239	RTCO	Rotation Coil D/A Convert R - S Correct	0 - 63	32	32	F
101	CLK	CLK 8 Pin Output	0, 1	1	1	F	172	RTC	Compensation Ratio SRT/DL APACON	0 - 7	4	4	F	240	2COL	Sub Color TV Input	0 - 255	120	120	A
102	ST1S	Select ST0 Pin Output Signal	0 - 3	1	1	F	DC						241	4COL	Sub Color YUV Input	0 - 255	120	145	A	
103	ST0S	Select ST0 Pin Output Signal	0 - 3	1	1	F	173	DCSF	Dynamic Convergence DC Shift	0 - 63	40	40	F	242	2SHU	Sub Hue TV Input	0 - 31	15	16	A
104	WSC	Noise Detection Coring	0 - 3	1	1	F	174	UYBW	Dynamic Convergence Upper YBOW	0 - 63	31	31	F	243	4SHU	Sub Hue YUV Input	0 - 31	15	16	A
105	VTRH	H-sync Non-Std Detect Hysteresis	0 - 3	1	1	F	175	LYBW	Dynamic Convergence Lower YBOW	0 - 63	31	31	F	ID 1						
106	VTRR	H-sync Non-Std Detect Sensitivity	0 - 3	1	1	F	176	HAMP	Dynamic Convergence H. Amp	0 - 63	15	15	F	244	XJGL	Decoding Result Held for VCR Scan	0, 1	0	0	F
107	LDSR	Frame Non-Std Detect Sensitivity	0 - 3	2	2	F	177	UCBW	Dynamic Convergence U. CBOW	0 - 63	21	21	F	245	LNJ1	ID - 1 Signal Location	0, 1	0	0	F
108	PWRE	Internal ADC Input Range	0, 1	0	0	F	178	LCBW	Dynamic Convergence L. CBOW	0 - 63	14	14	F	CC						
109	PDRE	PDRE	0 - 7	4	4	F	179	UMBH	Dynamic Convergence U. MBH	0 - 63	15	15	F	246	CRIL	CCD CRI Pulse Compare Data Low	0 - 15	2	2	F
110	PBRE	PBRE	0 - 15	8	8	F	180	LMBH	Dynamic Convergence L. MBH	0 - 63	15	15	F	247	CFLD	CCD Caption Fixed - Field Count	0 - 15	5	5	F
111	VAPG	Vert Aperture Compensation Gain	0 - 7	3	3	F	181	PWM	Dynamic Convergence PWM	0 - 63	63	63	F	248	CCDI	CCD No CCD Interrupt	0 - 7	3	3	F
112	VAPI	Vert Aperture Comp Convergence	0 - 31	10	10	F	182	HTLT	Dynamic Convergence H. Tilt	0 - 63	1	1	F	249	CRIP	CCD CRI & Parity Error	0 - 7	4	4	F
113	TEST	Test Bit	0, 1	0	0	F	183	UTLT	Dynamic Convergence U. Tilt	0 - 63	1	1	F	250	CRIT	CCD CRI Time Constant	0 - 3	0	0	F
114	YPFT	Y Peaking Filter Center Frequency	0 - 3	3	3	F	184	LTLT	Dynamic Convergence L. Tilt	0 - 63	1	1	F	251	CSB1	CCD Sync Slice Bias 1	0 - 3	3	3	F
115	YPFG	Y Peaking Filter Gain	0 - 15	10	10	F	185	HDTY	Dynamic Convergence H. Duty	0 - 3	3	3	F	252	CSB2	CCD Sync Slice Bias 2	0 - 7	4	4	F
116	V1PS	Horizontal Dot Suppression Level	0 - 3	2	2	F	186	TOFF	Dynamic Convergence Tilt Off	0, 1	1	1	F	253	CREP	CCD CRI Signal End Position	0 - 256	142	142	F
117	VEGS	Vertical Dot Suppression Level	0 - 3	2	2	F	187	DAC0	Dynamic Convergence DAC0	0 - 255	192	192	F	254	CDSD	CCD Data Start Delay	0 - 31	8	8	F
118	CC3N	Line Comb C Separation Filter	0, 1	0	0	F	188	DAC1	Dynamic Convergence DAC1	0 - 255	7	7	F	255	CCDS	CCD Caption Data Threshold	0 - 31	9	9	F
119	C0HS	C Signal Delay Time at NR	0, 1	0	0	F	SP						256	CHMK	CCD P8-HMASK	0 - 63	42	42	F	
120	CLPH	Y - ADC Clamp Test Bit	0, 1	0	0	F	189	PYSDY												

# MISCELLANEOUS ADJUSTMENTS

## B+ CHECK

Connect a digital DC voltmeter to the cathode of D643. Set brightness and picture to minimum. With AC line voltage set to 130VAC, B+ should read 135V ±1.0V.

## HIGH VOLTAGE CHECK

Tune in a picture. Set brightness and picture to minimum. Connect a high voltage probe to the unconnected plug of the high voltage block. High voltage should measure 30.5kV to 31.5kV.

## DIGITAL SERVICE ADJUSTMENT PROCEDURES

### Service Adjustment Mode

Tune in a picture and turn receiver off. Press the display button, the 5 button, the vol + button, and the power button in sequence. Press each button within a second. The CRT will display the item being adjusted. Turn receiver off and then back on to exit Service Adjustment Mode.

### Making Adjustments

Enter Service Adjustment Mode. Select adjustment by pressing the 1 and 4 buttons. Make changes on selected adjustment by pressing the 3 and 6 buttons. To recover the latest values press the 0 then enter buttons.

### Saving Adjustments to Memory

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

### Memory Write Confirmation

Disconnect AC plug from outlet. Plug receiver in and enter Service Adjustment Mode. Select adjustment and confirm that setting was saved to memory.

## IF AGC

Tune in an active channel. Adjust AGC control, located on top of TU102, counterclockwise until snow appears, and then clockwise until snow just disappears.

## HORIZONTAL SIZE (HSIZ)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select HSIZ and adjust for slight horizontal overscan. Save adjustment to memory.

## HORIZONTAL POSITION (HPOS)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select HPOS and adjust for best horizontal centering. Save adjustment to memory.

## VERTICAL SIZE (VSIZ)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select VSIZ and adjust for slight vertical overscan. Save adjustment to memory.

## VERTICAL POSITION (VPOS)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select VPOS and adjust to center picture vertically. Save adjustment to memory.

## VERTICAL LINEARITY (VLIN) & VERTICAL CORRECTION (VSCO)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select VLIN and adjust for equal vertical spacing of pattern. Select VSCO and adjust for best picture. Save adjustment to memory.

## PINCUSHION (PAMP, UCPN, LCPN, TRAP, VBOW, VANG)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode. Select PAMP and adjust for straightest center of the vertical lines at left and right of screen. Select UCPN and adjust for straight vertical lines at top of screen. Select LCPN and adjust for straight vertical lines at bottom of screen. Select TRAP and adjust so that vertical lines are parallel. Select VANG and adjust so that vertical lines are perpendicular at corners. Select VBOW and adjust so that vertical lines are parallel at both sides. Save adjustment to memory.

## OSD POSITION (DISP)

Tune in a colorbar pattern. Enter the service adjustment mode. Select DISP and adjust to center the OSD. Save adjustment to memory.

## ROTATION COIL ADJUSTMENT (RTCO)

Tune in a crosshatch pattern. Set picture to minimum and brightness to reset. Enter the Service Adjustment Mode. Select RTCO and confirm that the number 0 changes to the red color. Push (+) on the remote to increase up the number up to +5 and confirm that the picture rotates clockwise. Push (-) on the remote to decrease up the number down to -5 and the picture rotates counter clockwise. Push (+) on the remote to return the value to 0.

## SUB BRIGHTNESS (SBRT)

Tune in a crosshatch pattern. Set picture to minimum and brightness to reset. Enter the Service Adjustment Mode. Select SBRT and adjust for visible highlights. Save adjustment to memory.

## SUB CONTRAST (RDRV, RDR4)

Connect an oscilloscope to pin 1 of CN351. Tune in a colorbar pattern. Set picture to maximum, color to minimum, and brightness to center. Enter the Service Adjustment Mode. Select RON and set to 1. Select GON and set to 0. Select BON and set to 0. Select RDRV and adjust so that signal portion of waveform is 1.95V ±.05Vp-p. Inject a color signal through the Video 4 input. Select RDR4 and adjust so that signal portion of waveform is 1.95V ±.05Vp-p. Set brightness to center. Select GON and BON and set each to 1. Save adjustment to memory.

## SUB HUE AND SUB COLOR (SHUE, SCOL, 2SHU, 2COL, 4SHU, 4COL)

Tune in a colorbar pattern. Connect an oscilloscope to pin 3 of CN351. Enter the service adjustment mode. Select and adjust SHUE and SCOL so that the levels of the left and right portions of the waveform are balanced, and the level of the center portion is balanced. Save adjustment to memory. Inject a color signal through the Video 1, 2, and 3 inputs. Repeat the process to adjust 2SHU and 2COL. Save adjustment to memory. Inject a color signal through the Video 4 input. Repeat the process again to adjust 4SHU and 4COL.

NOTE : SHUE & SCOL are for TV Tuner Input. 2SHU & 2COL are for Video Input. 4SHU & 4COL are for Video 4 Input.

## SUB BALANCE (SBAL)

Input a stereo signal. Enter the Service Adjustment Mode. Select SBAL and adjust for the best sound balance. Save adjustment to memory.

## COLOR PURITY

The manufacturer advises not to use a degaussing coil to demagnetize the CRT and mounting brackets. Tune in a green raster signal. Loosen the clamp screw and slide yoke backward to obtain a vertical green band. Adjust purity magnets 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 clamp screw.

## WHITE BALANCE (RCUT, GCUT, BCUT, RDRV, GDRV, BDRV, GDR4, BDR4, GCU4, BCU4)

NOTE : This adjustment should be performed after Sub Contrast Adjustment.

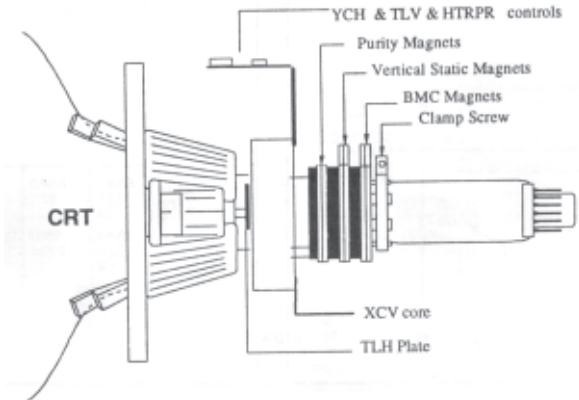
Tune in a crosshatch pattern. Adjust screen control so the retrace lines just disappear. Enter Service Adjustment Mode. Set picture to minimum. Select SBRT and adjust for minimum. Select RCUT and set data value for 14. Select GCUT and BCUT and adjust for best white balance. Set picture to maximum. Select GDRV and BDRV and adjust for best white balance. Save adjustment to memory.

Inject a color signal through the Video 4 input. Repeat the process again to adjust GDR4, BDR4, GCU4, and BCU4. Perform Sub brightness adjustment.

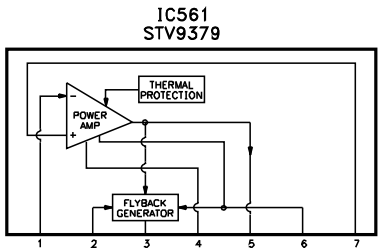
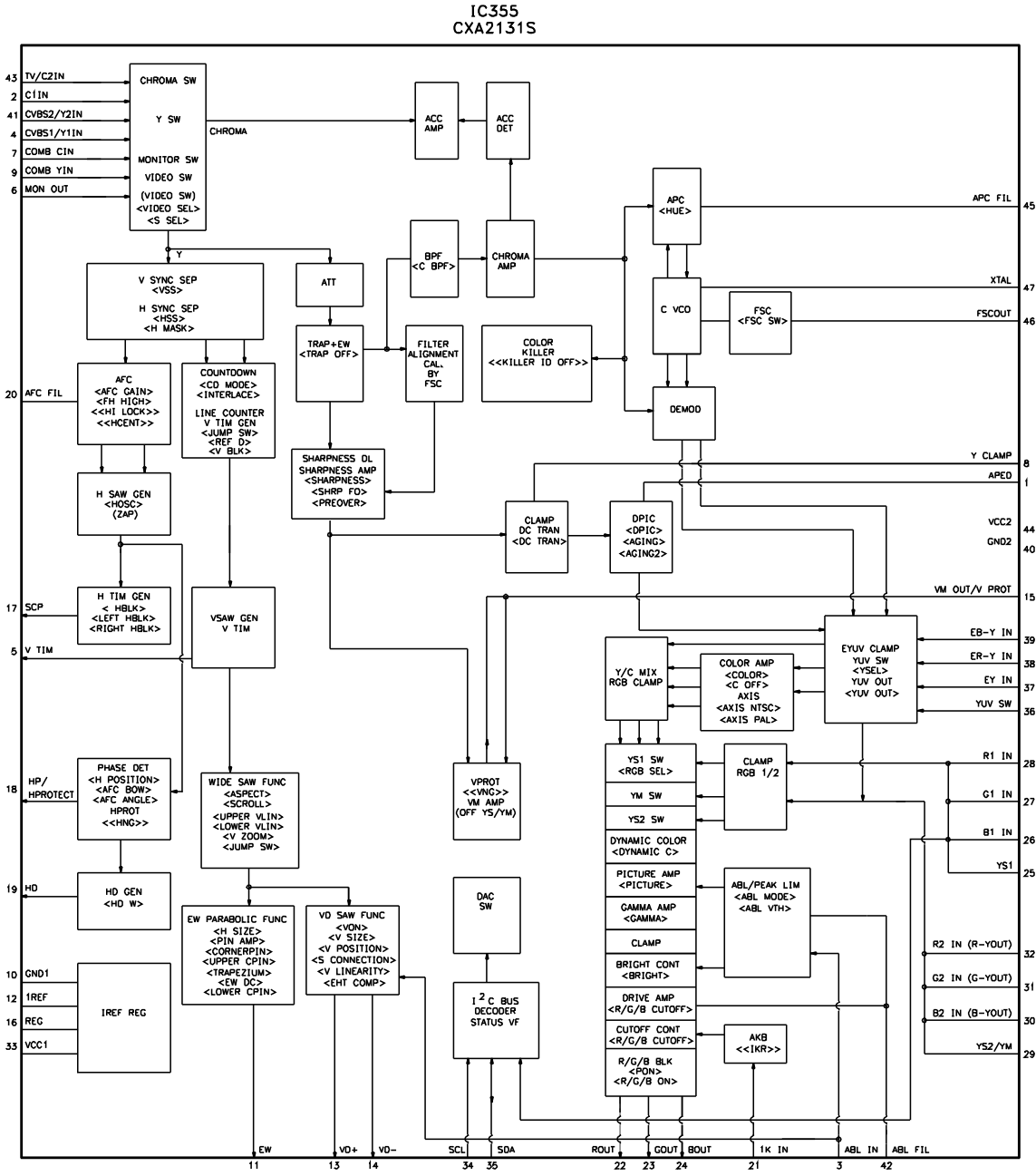
## CONVERGENCE

Adjust vertical static magnet to converge red, green, and blue in the center of the screen. Slide BMC magnets in and out to correct for insufficient horizontal static convergence and rotate the vertical static magnets to correct for insufficient vertical static convergence. Tune in a crosshatch pattern and loosen deflection yoke screw. Remove rubber wedges between deflection yoke and CRT. Converge the horizontal lines at the right and left sides of screen by tilting the TLH plate on the deflection yoke. Tilt deflection yoke up or down to converge the vertical lines at top and bottom of screen, and adjust TLV control. 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. Adjust XCV core to balance X axis, and adjust YCH control to balance Y axis. Repeat convergence procedure if necessary to obtain best overall convergence. Apply adhesive to wedges and carefully replace on CRT. Apply a permalloy correction strip, part number 4-062-047-01, corresponding to the misconverged corner areas.

## CRT NECK ASSEMBLY



# IC FUNCTIONS

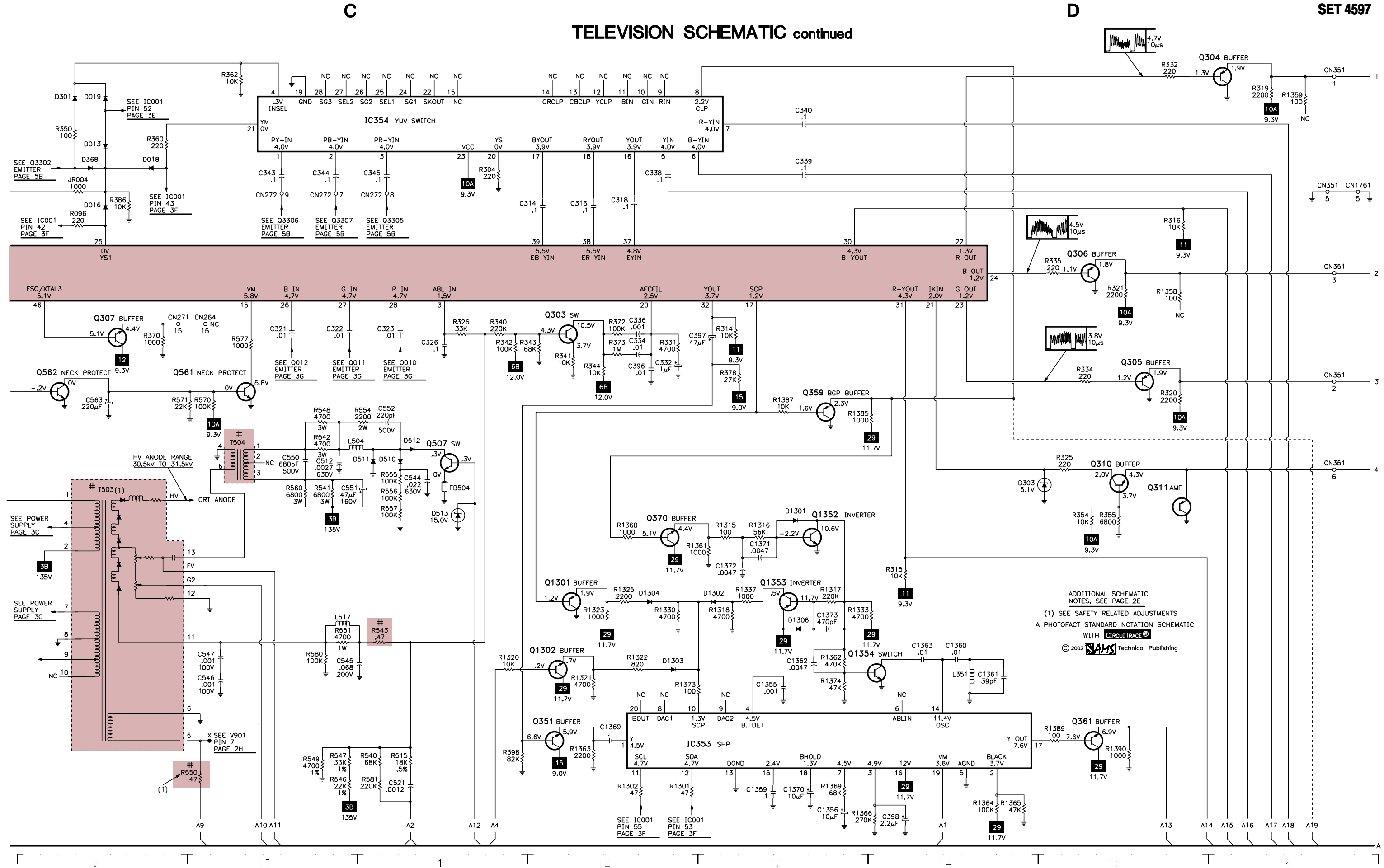




[illegible]

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TELEVISION SCHEMATIC continued



A = casing; 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 100 $\mu$ m 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.

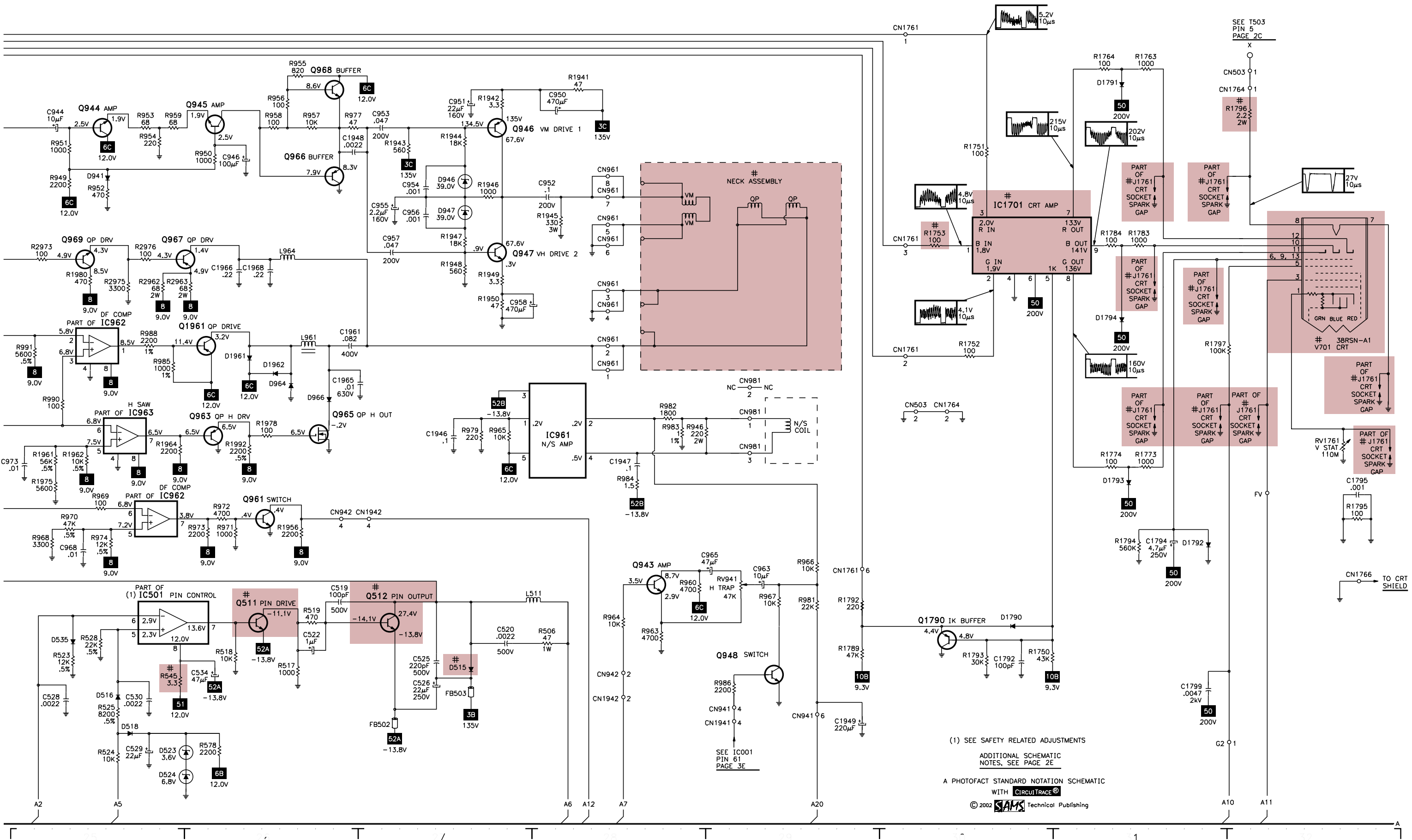
Rated voltage shown on zener diodes.



G

## TELEVISION SCHEMATIC continued

H

SONY  
MODEL KV-36XBR250 (CHASSIS SCC-S32F-A)



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2E

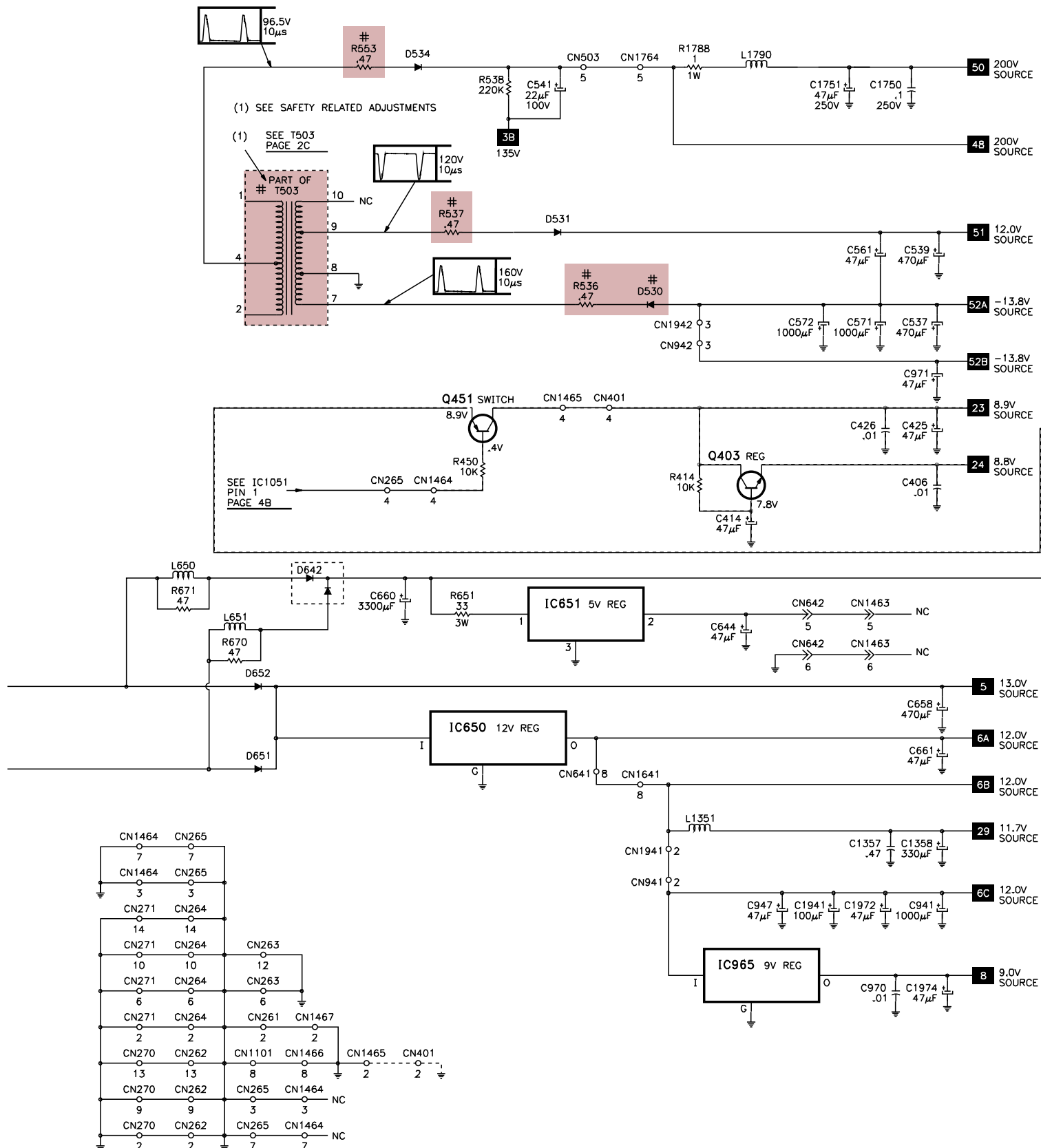
A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITACE

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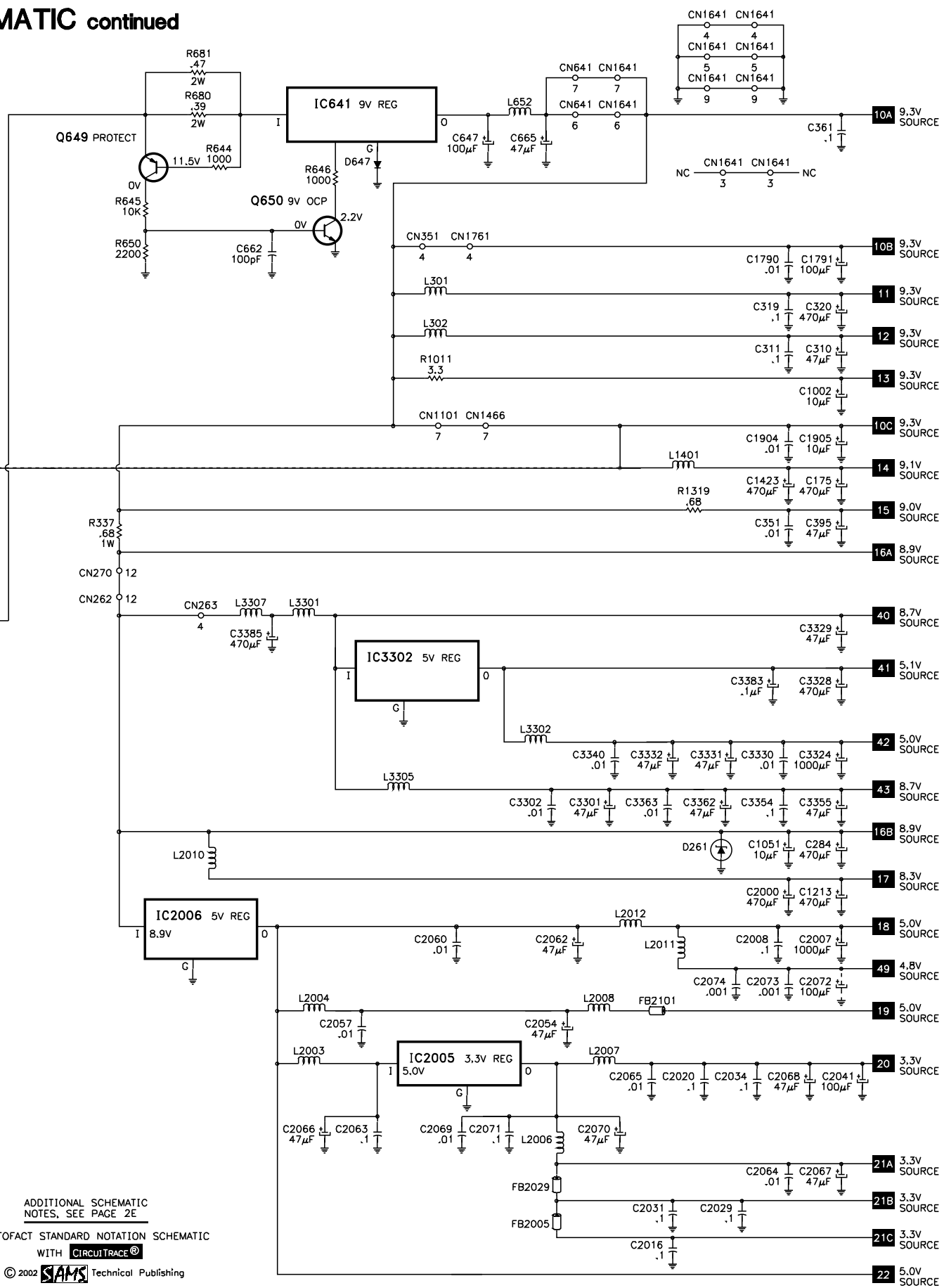
## POWER SUPPLY SCHEMATIC continued



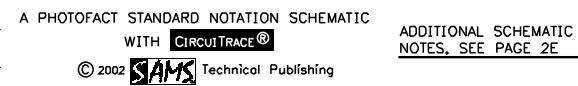
ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 2E

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH CIRCUITRACE®

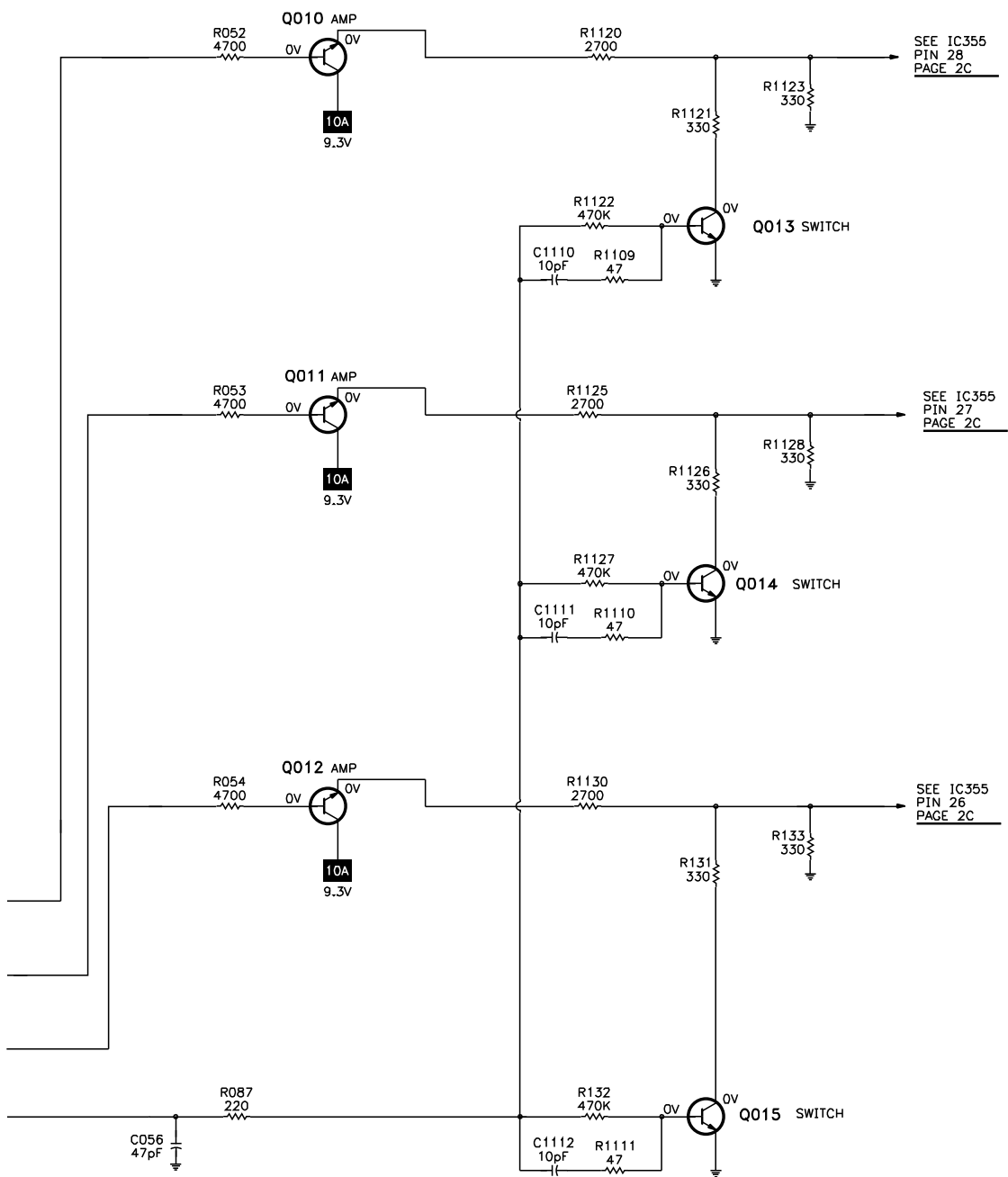
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## 1



G  
SYSTEM CONTROL SCHEMATIC continued

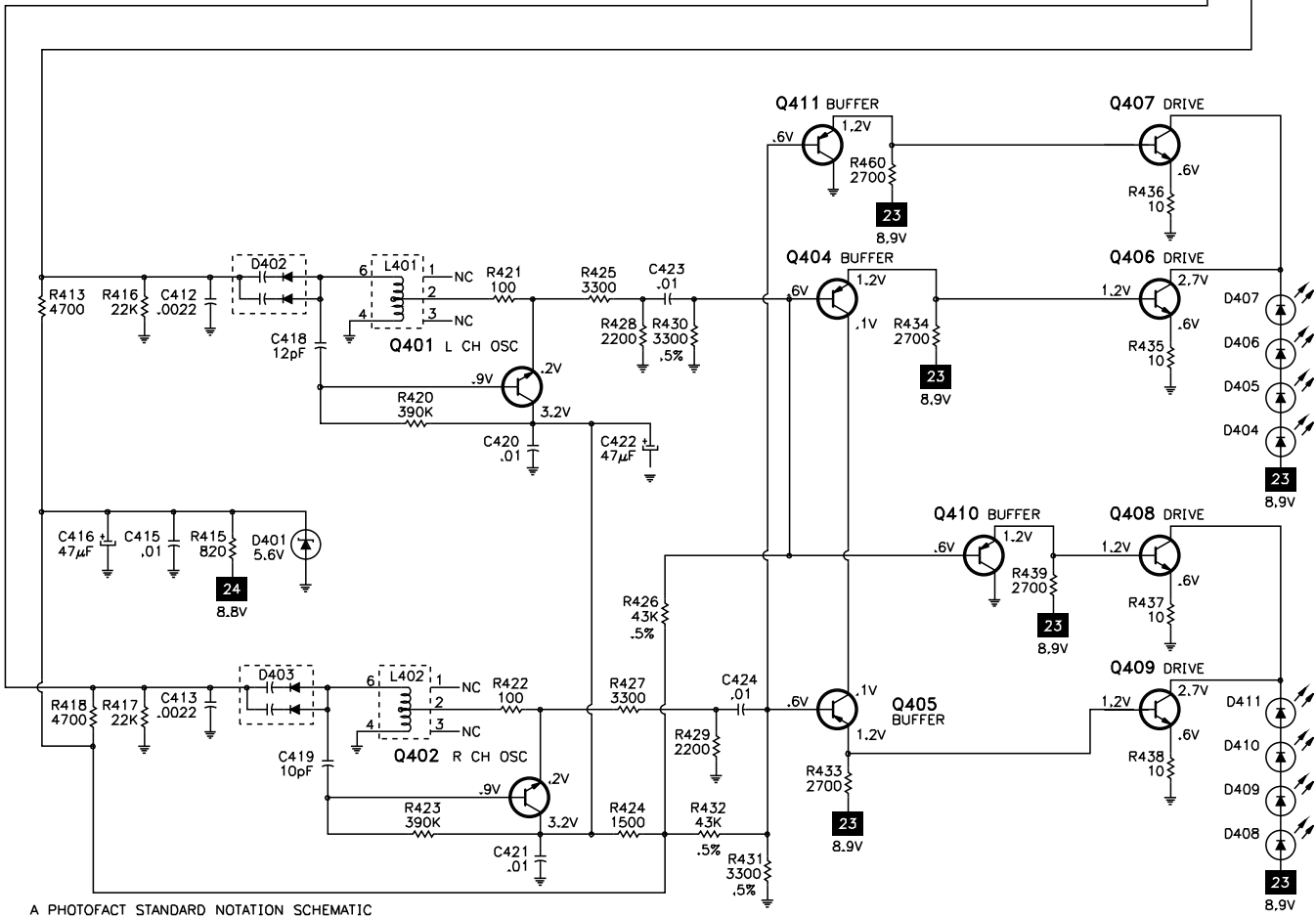
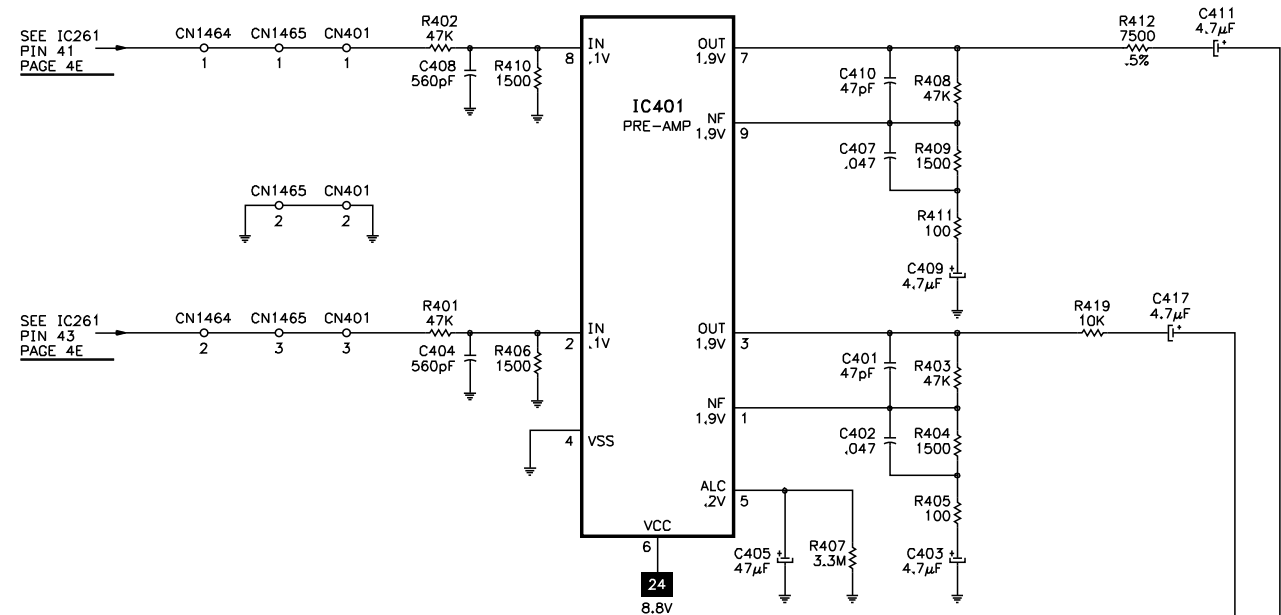


ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 2E

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H  
IR EARPHONES SCHEMATIC



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ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 2E

SONY

MODEL KV-36XBR250 (CHASSIS SCC-S32F-A)

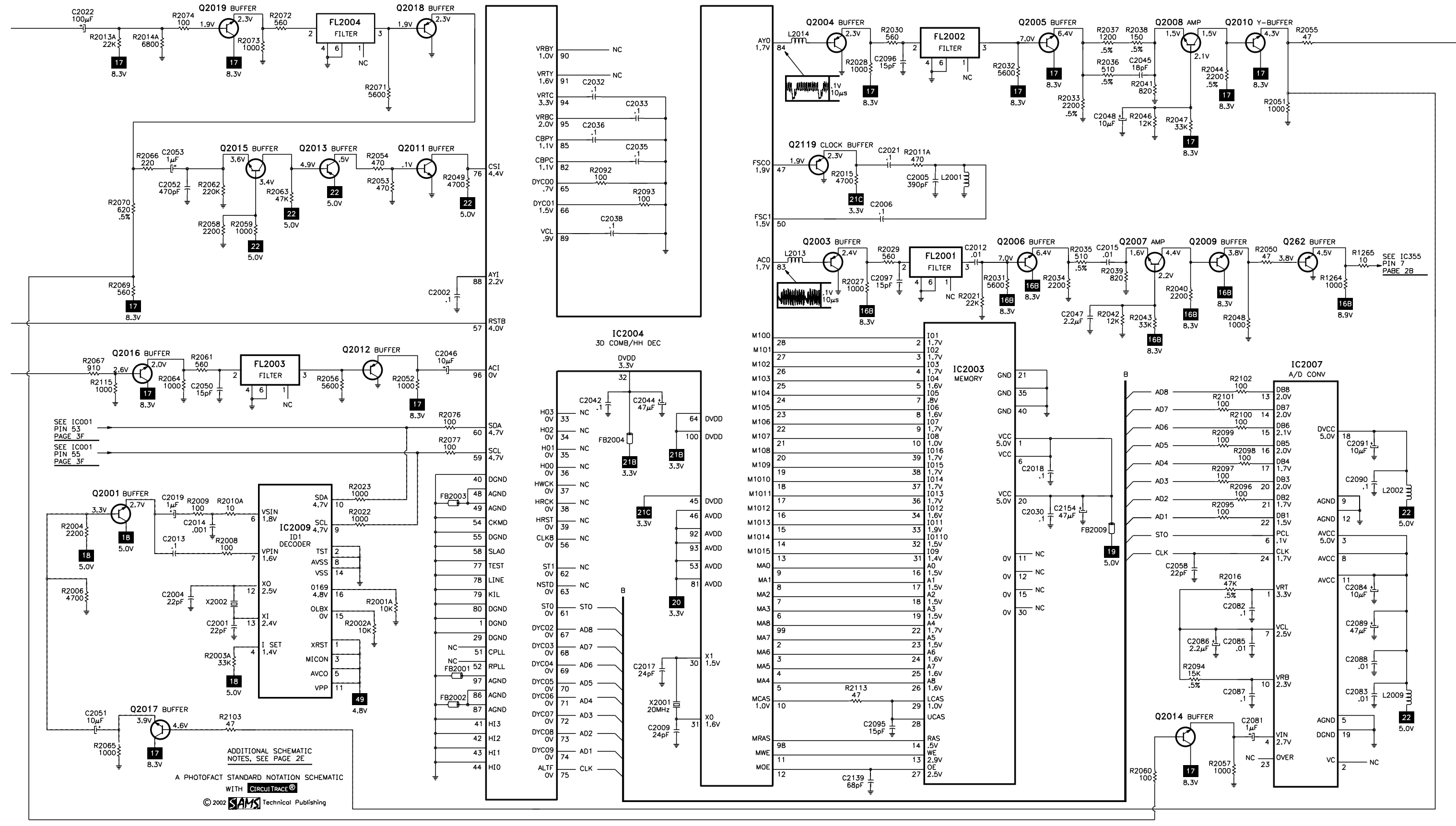


A PHOTOFAC<sup>®</sup> STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITTRACE<sup>®</sup>**  
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COMB FILTER SCHEMATIC continued

C

D



**F**



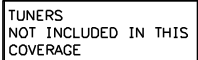
**G**



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 **AMK** Técnico F

# H



WITH **CIRCUITRACE®**

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# B

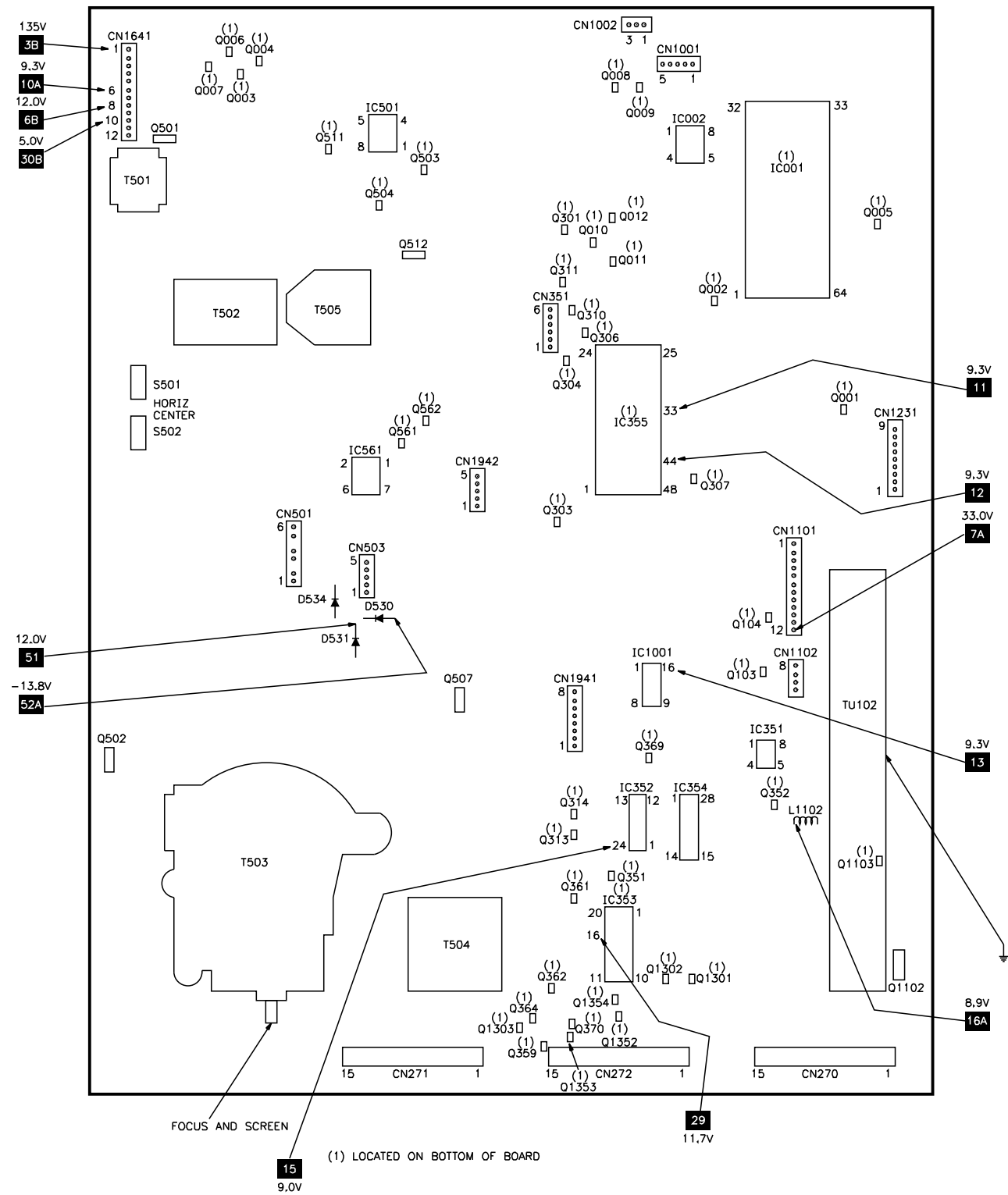


SCHEMATIC COMPONENT LOCATION GUIDE

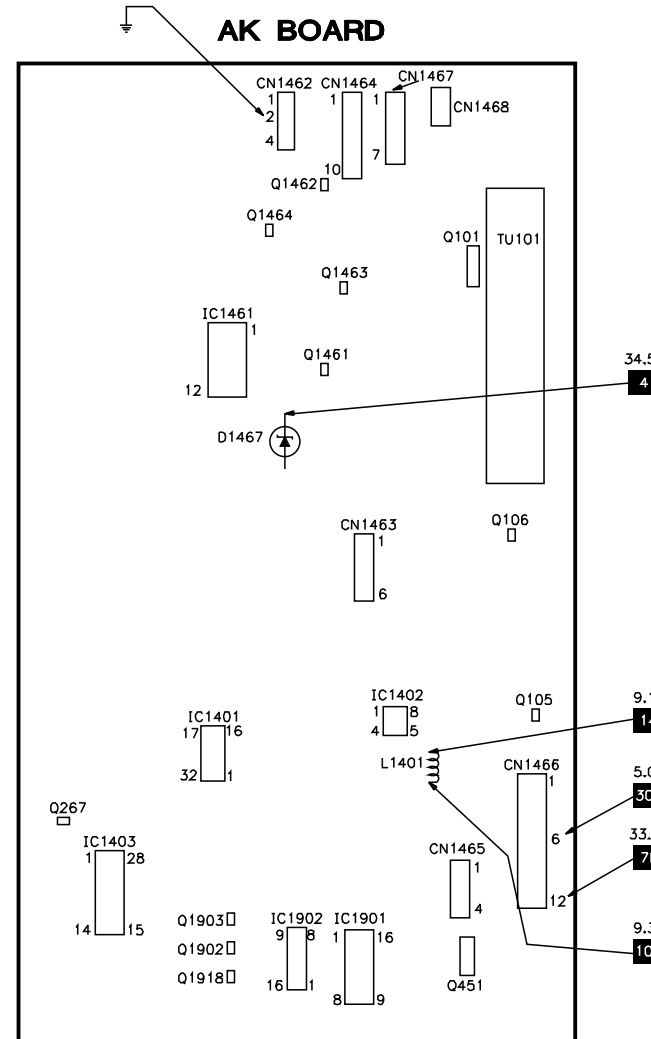
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C003	E49	C355	A7	C553	E7	C1112	E58	C1965	C27	C3342	D101	D511	C11	FB503	E27	L001	D52	Q246	B71	Q1790	D30	R073	A54	R269	C82	R420	D62	R582	D7	R975	C22	R1246	E66	R1425	E87	R2013	B49	R3312	A98
C005	E50	C357	B6	C554	E5	C1117	A2	C1966	B26	C3346	C101	D512	C11	FB504	C11	L002	A52	Q262	B80	Q1902	D95	R074	B53	R270	B68	R421	D62	R601	D38	R976	C22	R1247	E66	R1427	C87	R2013A	A73	R3314	A98
C009	D52	C359	A8	C561	B44	C1118	A3	C1968	B26	C3347	C102	D513	D11	FB601	B37	L003	A53	Q263	A70	Q1903	D95	R075	B54	R271	C82	R422	E62	R602	D40	R977	B26	R1248	C72	R1458	D85	R2014	C50	R3322	B103
C010	D52	C361	A48	C563	C9	C1201	A67	C1972	D44	C3348	A98	D515	E27	FB602	C37	L004	D53	Q264	A69	Q1918	C95	R076	C51	R272	D68	R423	E62	R603	B34	R978	C23	R1249	D72	R1459	D85	R2014A	A73	R3323	A103
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C014	D51	C382	E19	C568	C7	C1204	D67	C2001	D74	C3352	B101	D519	E24	FB641	C38	L261	D69	Q268	C69	Q1964	C21	R079	A53	R275	C68	R426	D62	R606	D34	R981	D29	R1252	D71	R1464	A89	R201A	B49	R3329	D102
C023	A52	C384	D19	C571	B44	C1205	E65	C2001A	E40	C3353	B101	D520	E23	FB642	C38	L301	B46	Q301	D3	Q1966	C20	R080	A53	R278	C82	R427	E62	R607	A36	R982	C28	R1254	D71	R1465	B89	R2021	C78	R3332	A100
C028	D53	C393	C19	C572	B44	C1207	C83	C2002	B75	C3354	D48	D521	E23	FB645	B38	L302	B46	Q303	B12	Q1967	C21	R081	B53	R279	C68	R428	D62	R608	B36	R983	C28	R1255	D71	R1466	B90	R2022	D74	R3337	D101
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C037	D54	C397	B13	C604	A34	C1211	B69	C2006	B77	C3358	A101	D530	B43	FB2003	D75	L501	E7	Q307	C9	Q2005	A78	R085	B51	R283	E83	R432	E62	R612	B37	R988	C25	R1259	E65	R1471	B89	R2029	B77	R3341	D101
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C075	C54	C412	D61	C618	D40	C1361	D14	C2021	B77	C3371	A99	D608	D34	IC002	B52	L964	B26	Q402	E62	Q2019	A74	R106	E52	R300	B69	R446	D85	R631	E36	R1012	E18	R1278	D70	R1764	A31	R2041	A79	R3377	B99
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C110	B95	C419	E61	C635	E36	C1372	D13	C2034	E48	C3383	C48	D624	E36	IC355	B7	L1352	A6	Q409	E64	Q3310	A98	R115	B95	R314	B13	R505	E4	R638	E36	R1056	E70	R1298	C72	R1792	D29	R2049	B75	R3393	C97
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C175	B48	C423	D62	C643	A40	C1403	A87	C2041	E48	D003	E51	D628	D37	IC501	E24	L2002	D80	Q501	E3	R001	E49	R119	A96	R320	C15	R509	E6	R642	B33	R1060	E70	R1302	E12	R1796	A32	R2053	B75	R3399	C100
C201	D65	C424	E63	C644	C43	C1404	D87	C2042	C76	D004	B50	D629	A36	IC561	C6	L2003	E46	Q502	E4	R002	E55	R131	D59	R321	B15	R510	E8	R643	C39	R1062	D90	R1303	A5						

## PLACEMENT CHART

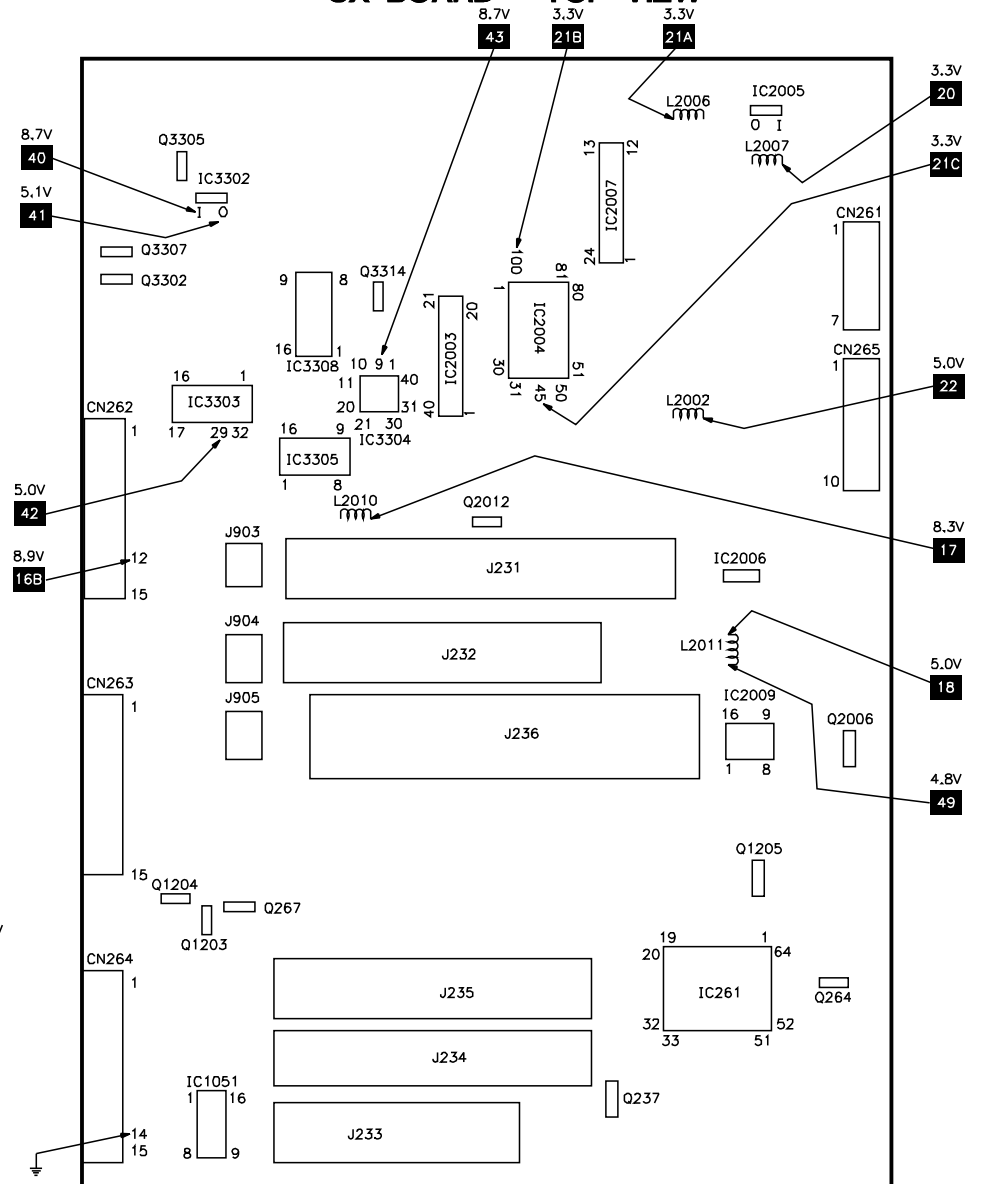
## A BOARD



## AK BOARD



### UX BOARD - TOP VIEW







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.

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

TEST EQUIPMENT

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

Equipment	Sencore No.
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

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D001	1SS133T-77	8-719-991-33	NTE519
D002	RD5.6ESB2	8-719-109-89	NTE5011A
D003	1SS133T-77	8-719-991-33	NTE519
D004	RD10ESB2	8-719-110-17	NTE5019A
D011	RD3.9ESB2	8-719-109-72	-
D012 Thru			
D016	1SS133T-77	8-719-991-33	NTE519
D018, 19	MA111-TX	8-719-404-50	-
D101	RD5.6ESB2	8-719-109-89	NTE5011A
D103 Thru			
D107	1SS133T-77	8-719-991-33	NTE519
D108, 09	RD10ESB2	8-719-110-17	NTE5019A
D201 Thru			
D205	MTZJ-T-9110	8-719-032-47	-
D231 Thru			
D239	MTZJ-T-9110	8-719-032-47	-
D245 Thru			
D250	RD3.3SB	8-719-157-94	-
D261	MTZJ-T-9110	8-719-032-47	-
D301	MA111-TX	8-719-404-50	-
D302	1SS133T-77	8-719-991-33	NTE519
D303	MTZJ-5.1C	8-719-921-44	-
D368	1SS133T-77	8-719-991-33	NTE519
D384, 88	MTZJ-11B	8-719-921-80	-
D401	RD5.6ESB2	8-719-109-89	NTE5011A
D402, 03	SVC203SPA-AL	8-719-057-93	-
D404 Thru			
D411	DAL5815	8-719-992-13	-
D501	RD5.6ESB2	8-719-109-89	NTE5011A
D502	ERC06-15S	8-719-945-80	NTE525
# D503	ERC06-15S	8-719-945-80	NTE525
D504	ERD29-08J	8-719-900-26	NTE506
D505, 06	GP08D	8-719-908-03	NTE116
D507	1SS133T-77	8-719-991-33	NTE519
D510	RU-3AM	8-719-300-33	NTE580
D511, 12	ERA38-06	8-719-970-87	NTE575
D513	RD15ESB2	8-719-110-41	NTE5024A
# D515	EL1Z	8-719-302-43	NTE587
D516, 18	1SS133T-77	8-719-991-33	NTE519
# D519	EL1Z	8-719-302-43	NTE587
D520	1SS133T-77	8-719-991-33	NTE519
D521	MTZJ-7.5B	8-719-921-63	-
D522	1SS133T-77	8-719-991-33	NTE519
D523	MTZJ-T-77-3.6B	8-719-109-69	-
D524	MTZJ-T-77-6.8B	8-719-109-97	NTE5014A
# D530	EGP20G	8-719-979-85	NTE576
D531	EGP20G	8-719-979-85	NTE576
D534	EL1Z	8-719-302-43	NTE587
D535	MA111-TX	8-719-404-50	-
D561	GP08D	8-719-908-03	NTE116
D600, 01	1SS133T-77	8-719-991-33	NTE519
# D602	D4SB60L	8-719-510-53	NTE5319
D603	D1NL20U	8-719-063-70	-
D604	1SS133T-77	8-719-991-33	NTE519
D605	MTZJ-T-77-13A	8-719-923-83	-
D606	RD24ESB	8-719-110-60	-
D607, 08	RD6.8ESB2	8-719-109-97	NTE5014A
D612, 13, 14	1SS133T-77	8-719-991-33	NTE519
D621, 22	U05G	8-719-911-55	NTE5806
D623	ERA22-08	8-719-948-45	NTE558
D624, 25	1SS133T-77	8-719-991-33	NTE519
D626	RD6.2ESB2	8-719-109-93	NTE5013T1
D627	D1N20R	8-719-510-48	NTE116
D628	D1NS4	8-719-510-02	NTE585
D629, 30	D1NL40-TA2	8-719-052-90	-
D641	D4SBS6-F	8-719-060-89	-
D642	D10SC4M	8-719-510-12	NTE6085
D643	D4SBL20UF3	8-719-062-40	-
D647	D1NL20U	8-719-063-70	-
# D648	EZ0150AV1	8-719-057-52	-
D651, 52	D1NS4	8-719-510-02	NTE585
D653, 98	1SS133T-77	8-719-991-33	NTE519
D699	MTZJ-T-77-15	8-719-923-86	-
D902, 10	MTZJ-T-9110	8-719-032-47	-

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Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.
D911, 12	MTZJ-T-9110	8-719-032-47	-	Q010 Thru			
D941, 43, 44	ISS133T-77	8-719-991-33	NTE519	Q016	2SD601A-Q	8-729-422-27	NTE2408
D945	RD5.6ESB2	8-719-109-89	NTE5011A	Q017	2SA1162-G	8-729-216-22	NTE2409
D946, 47	RD39ESB2	8-719-110-88	-	Q101	2SC2785-HFE	8-729-119-78	NTE2361
D962	ISS133T-77	8-719-991-33	NTE519	Q103, 04, 05	2SA1162-G	8-729-216-22	NTE2409
D963	MA111-TX	8-719-404-50	-	Q106	2SD601A-Q	8-729-422-27	NTE2408
D964	11EQS04	8-719-210-21	NTE585	Q202, 03	2SD601A-Q	8-729-422-27	NTE2408
D966	EL1Z	8-719-302-43	NTE587	Q205, 06	2SA1162-G	8-729-216-22	NTE2409
D1003, 04	RD10ESB2	8-719-110-17	NTE5019A	Q208 Thru			
D1051, 52	MA111-TX	8-719-404-50	-	Q211	2SD601A-Q	8-729-422-27	NTE2408
D1101	RD10ESB2	8-719-110-17	NTE5019A	Q231	2SD601A-Q	8-729-422-27	NTE2408
D1102	MTZJ-T-77-33A	8-719-982-24	-	Q233 Thru			
D1103	RD5.6ESB2	8-719-109-89	NTE5011A	Q236	2SD601A-Q	8-729-422-27	NTE2408
D1104	RD10ESB2	8-719-110-17	NTE5019A	Q237, 38, 39	2SA1162-G	8-729-216-22	NTE2409
D1233	MTZJ-T-77-10B	8-719-110-17	NTE5019A	Q240, 41, 42	2SD601A-Q	8-729-422-27	NTE2408
D1301	MA111-TX	8-719-404-50	-	Q243, 44, 45	2SA1162-G	8-729-216-22	NTE2409
D1302	ISS133T-77	8-719-991-33	NTE519	Q246	2SD601A-Q	8-729-422-27	NTE2408
D1303 Thru				Q262, 63, 64	2SA1162-G	8-729-216-22	NTE2409
D1306	MA111-TX	8-719-404-50	-	Q265	2SD601A-Q	8-729-422-27	NTE2408
D1461, 63, 66	ISS133T-77	8-719-991-33	NTE519	Q267, 68	2SA1162-G	8-729-216-22	NTE2409
D1467, 68	MTZJ-T-77-22B	8-719-924-13	-	Q301, 03	2SD601A-Q	8-729-422-27	NTE2408
D1790	ISS133T-77	8-719-991-33	NTE519	Q304, 05, 06	2SA1162-G	8-729-216-22	NTE2409
D1791 Thru				Q307	2SD601A-Q	8-729-422-27	NTE2408
D1794	GP08D	8-719-908-03	NTE116	Q310, 11	2SA1162-G	8-729-216-22	NTE2409
D1961, 62	ISS133T-77	8-719-991-33	NTE519	Q313, 14	2SD601A-Q	8-729-422-27	NTE2408
D2002, 03	LNJ801LPDJA	8-719-057-09	-	Q351, 52	2SD601A-Q	8-729-422-27	NTE2408
D2005	MA111-TX	8-719-404-50	-	Q359	2SA1162-G	8-729-216-22	NTE2409
D2201, 02, 03	MTZJ-T-9110	8-719-032-47	-	Q361, 62	2SD601A-Q	8-729-422-27	NTE2408
IC001	CXP85856A-029S	8-752-906-87	-	Q364	2SA1162-G	8-729-216-22	NTE2409
IC002	M24C08-MN6T	8-759-527-76	-	Q369, 70	2SD601A-Q	8-729-422-27	NTE2408
IC261	CXA1845Q	8-752-066-69	-	Q401, 02	2SC2688-Y	8-729-266-83	-
IC351	NJM2233BM	8-759-710-86	-	Q403	2SC3311A-QRSTA	8-729-119-78	NTE2361
IC352	CXA2039M-T6	8-752-080-75	-	Q404, 05	2SB709A-QRS-TX	8-729-216-22	NTE2409
IC353	TA1226N	8-759-462-91	-	Q406 Thru			
IC354	CXA2119M	8-752-082-49	-	Q409	2SD1858-Q-TV2	8-729-931-14	-
# IC355	CXA2131S	8-752-088-86	-	Q410, 11	2SB709A-QRS-TX	8-729-216-22	NTE2409
IC401	BA3308	8-759-939-73	-	Q451	2SB734-34	8-729-140-97	NTE383
IC501	NJM2903M	8-759-700-07	-	Q501	2SC3209LK	8-729-140-50	NTE399
# IC561	STV9379	8-759-192-71	-	# Q502	2SD2580-CA	8-729-045-26	-
# IC601	MX0842B-F	8-729-045-41	-	Q503, 04	2SD601A-Q	8-729-422-27	NTE2408
IC622	BA05T	8-759-450-47	-	Q507	2SC3840(3)	8-729-043-95	-
IC641	PQ09RF21	8-759-198-03	-	# Q511	2SD601A-Q	8-729-422-27	NTE2408
IC643	DM-48	1-810-051-11	-	# Q512	2SC4159-E	8-729-809-29	NTE54
IC650	BA12T	8-759-394-35	-	Q561, 62	2SD601A-Q	8-729-422-27	NTE2408
IC651	BA05T	8-759-450-47	-	# Q621	2SK2845-LB102	8-729-044-30	-
IC961	LA6500-FA	8-759-803-42	-	Q622, 23	2SC2785-HFE	8-729-119-78	NTE2361
IC962, 63	NJM2903D	8-759-729-03	NTE943M	Q624	2SA1175-HFE	8-729-119-76	NTE2362
IC964	NJM2904D	8-759-700-42	NTE928M	Q644	2SC2785-HFE	8-729-119-78	NTE2361
IC965	NJM78M09FA	8-759-701-59	NTE1966	Q645, 46	2SA1175-HFE	8-729-119-76	NTE2362
IC1001, 51	CXA1315M	8-752-058-68	-	Q647	2SC2785-HFE	8-729-119-78	NTE2361
IC1401	BH3868FS-E2	8-759-578-88	-	Q648	2SD2144S-V	8-729-922-39	-
IC1402	UPC4558G2	8-759-100-96	NTE778SM	Q649	2SA1175-HFE	8-729-119-76	NTE2362
IC1403	TDA7467D013TR	8-759-537-26	-	Q650	2SC2785-HFE	8-729-119-78	NTE2361
# IC1461	TA18200AH	8-759-168-24	-	Q651	2SA1407-E	8-729-802-71	-
# IC1701	TDA6108JF/N1B	8-759-562-43	-	Q652	2SA1175-HFE	8-729-119-76	NTE2362
IC1901	CXA1315M	8-752-058-68	-	Q653	2SC2785-HFE	8-729-119-78	NTE2361
IC1902	NJM2145M-TE2	8-759-470-63	-	Q941	2SD601A-Q	8-729-422-27	NTE2408
IC2003	MSM514265C-60JSDR1	8-759-568-27	-	Q942	2SA1162-G	8-729-216-22	NTE2409
IC2004	UPD64081BGF-3BA	8-759-536-12	-	Q943, 44, 45	2SD601A-Q	8-729-422-27	NTE2408
IC2005	UPC2933T-E1	8-759-591-79	-	Q946	2SA2005	8-729-045-05	-
IC2006	NJM78M05DLA(TE1)	8-759-358-38	-	Q947	2SC5511	8-729-045-04	-
IC2007	UPC659AGS-E2	8-759-161-24	-	Q948	2SD601A-Q	8-729-422-27	NTE2408
IC2009	CXD2085M	8-752-395-12	-	Q949	2SA1162-G	8-729-216-22	NTE2409
IC3302	NJM78M05DLA(TE1)	8-759-358-38	-	Q961	2SD601A-Q	8-729-422-27	NTE2408
IC3303	SDA9288XE-GEG-B121	8-759-533-89	-	Q962, 63	2SA1175-HFE	8-729-119-76	NTE2362
IC3304	CXA2019AQ-T4	8-752-086-80	-	Q965	IRF614	8-729-931-45	NTE2391
IC3307	Z8613012SSC	8-759-575-50	-	Q966	2SA1162-G	8-729-216-22	NTE2409
IC3308	BU4053BCF-T2	8-759-932-69	-	Q967	2SB734-34	8-729-140-97	NTE383
Q001	2SA1162-G	8-729-216-22	NTE2409	Q968, 69	2SD601A-Q	8-729-422-27	NTE2408
Q002, 03	2SD601A-Q	8-729-422-27	NTE2408	Q1051	2SA1162-G	8-729-216-22	NTE2409
Q004	2SA1162-G	8-729-216-22	NTE2409	Q1102	2SC2785-HFE	8-729-119-78	NTE2361
Q005, 06	2SD601A-Q	8-729-422-27	NTE2408	Q1103	2SD601A-Q	8-729-422-27	NTE2408
Q007	2SA1162-G	8-729-216-22	NTE2409	Q1201	2SA1162-G	8-729-216-22	NTE2409
				Q1202, 03	2SD601A-Q	8-729-422-27	NTE2408

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Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes
Q1204	2SA1162-G	8-729-216-22	NTE2409	J902	Jack	1-764-143-11	SIRCS Input, S Link Output
Q1205, 06	2SD601A-Q	8-729-422-27	NTE2408	J903	Jack	1-764-143-11	SIRCS Output, S Link Input 1
Q1207, 08	2SA1162-G	8-729-216-22	NTE2409	J904	Jack	1-764-143-11	SIRCS Output, S Link Input 3
Q1301	2SA1162-G	8-729-216-22	NTE2409	J905	Jack	1-764-143-11	SIRCS Output, S Link Input 4
Q1302, 03, 52	2SD601A-Q	8-729-422-27	NTE2408	J1231	Jack	1-770-361-11	-
Q1353	2SA1162-G	8-729-216-22	NTE2409	# J1761	Socket	1-540-071-22	CRT
Q1354	2SD601A-Q	8-729-422-27	NTE2408	L001, 02	100µH	1-414-857-11	-
Q1405, 06	2SA1162-G	8-729-216-22	NTE2409	L003, 04	10µH	1-414-856-11	-
Q1461, 62	2SD601A-Q	8-729-422-27	NTE2408	L102	10µH	1-414-856-11	-
Q1463, 64	DTC114EK	8-729-900-53	NTE2414	L105	100µH	1-414-857-11	-
Q1790	2SA1175-HFE	8-729-119-76	NTE2362	L261	100µH	1-414-857-11	-
Q1902, 03, 18	2SA1162-G	8-729-216-22	NTE2409	L301	100µH	1-414-857-11	-
Q1961	2SB734-34	8-729-140-97	NTE383	L302	10µH	1-414-856-11	-
Q1963, 64	2SA1162-G	8-729-216-22	NTE2409	L351	33µH	1-414-186-31	-
Q1966	2SD601A-Q	8-729-422-27	NTE2408	L401	Oscillator	1-411-987-11	-
Q1967	2SA1162-G	8-729-216-22	NTE2409	L402	Oscillator	1-411-988-11	-
Q2001	2SD601A-Q	8-729-422-27	NTE2408	L501	10mH	1-406-677-11	-
Q2003, 04	2SA1162-G	8-729-216-22	NTE2409	L502	2.2mH	1-412-552-11	-
Q2005 Thru				L503, 04	10mH	1-406-677-11	-
Q2011	2SD601A-Q	8-729-422-27	NTE2408	L505	68µH	1-406-976-11	-
Q2012, 13	2SA1162-G	8-729-216-22	NTE2409	L511	15mH	1-411-189-11	-
Q2014 Thru				L517	2.2mH	1-412-552-11	-
Q2017	2SD601A-Q	8-729-422-27	NTE2408	# L600, 00A (1)	Degaussing	1-416-827-11	-
Q2018	2SA1162-G	8-729-216-22	NTE2409	# L600, 00A (2)	Degaussing	1-416-828-11	-
Q2019	2SD601A-Q	8-729-422-27	NTE2408	L642	22µH	1-412-529-11	-
Q2119	2SA1162-G	8-729-216-22	NTE2409	L650, 51, 52	3.3µH	1-412-519-11	-
Q3301	2SD601A-Q	8-729-422-27	NTE2408	L961	10mmH	1-459-111-00	-
Q3302, 05	2SA1162-G	8-729-216-22	NTE2409	L964	10mmH	1-406-989-21	-
Q3306, 07	2SA1162-G	8-729-216-22	NTE2409	L1101	100µH	1-414-857-11	-
Q3310	2SD601A-Q	8-729-422-27	NTE2408	L1102	10µH	1-414-856-11	-
Q3312, 14	2SA1162-G	8-729-216-22	NTE2409	L1201, 02, 03	1µH	1-408-397-00	-
Q3322	2SD601A-Q	8-729-422-27	NTE2408	L1351	10µH	1-414-856-11	-
				L1352	56µH	1-412-756-21	-
Item No.	Function/Rating	Mfr. Part No.	Notes	L1401	100µH	1-414-857-11	-
# C507	680pF 10% 2kV	1-162-116-00	-	L1790	100µH	1-412-537-31	-
C509	680pF 10% 2kV	1-162-116-00	-	L2001	4.7µH	1-410-466-41	-
# C511	.022 3% 2kV	1-117-652-11	-	L2002, 03	10µH	1-414-856-11	-
# C513	.051 5% 400V	1-130-118-00	-	L2004	18µH	1-410-473-11	-
# C514	.82 5% 250V	1-115-521-11	-	L2006	10µH	1-414-856-11	-
# C516	.82 5% 200V	1-136-540-11	-	L2007	100µH	1-414-857-11	-
C527	680pF 10% 2kV	1-162-116-00	-	L2008, 09	10µH	1-414-856-11	-
# C554	.0047 3% 2kV	1-104-491-11	-	L2010	1mH	1-410-494-11	-
# C603	.001 20% 250V	1-127-790-51	-	L2011, 12	560µH	1-410-116-11	-
# C604, 05	.22 20% 125V	1-136-346-21	-	L2013, 14	2.2µH	1-410-462-11	-
# C606, 07	560µF 20% 250V	1-117-894-11	-	L3301	10µH	1-414-856-11	-
C608	220pF 5% 1kV	1-107-824-11	-	L3302, 03	18µH	1-410-473-11	-
# C616	.001 20% 250V	1-127-790-51	-	L3305	220µH	1-408-619-31	-
# C629	10µF 20% 250V	1-107-652-11	-	L3306	100µH	1-414-857-11	-
# C1501	.1 5% 250V	1-107-846-11	-	L3307	10µH	1-414-856-11	-
C1799	.0047 +80% -20% 2kV	1-162-114-00	-	# P600	Line Cord	1-790-317-21	AC, Polarized
# DY (3)	Yoke	-	-	# PS1461	Fuse Link	1-532-984-11	2Amp, 90V
# F601	Fuse	1-532-506-51	6.3A, 250VAC	R118	470 .5% 1/10W	1-208-774-11	-
FB501, 02, 03	Ferrite Bead	1-410-397-21	-	R119	560 .5% 1/10W	1-208-776-11	-
FB504	Ferrite Bead	-	-	R218	470 .5% 1/10W	1-208-774-11	-
FB601 Thru				R220	560 .5% 1/10W	1-208-776-11	-
FB604	Ferrite Bead	1-410-396-41	-	R221	470 .5% 1/10W	1-208-774-11	-
FB641, 42	Ferrite Bead	1-410-397-21	-	R223	560 .5% 1/10W	1-208-776-11	-
FB645, 47	Ferrite Bead	1-410-397-21	-	R330	10K .5% 1/10W	1-208-806-11	-
FB2001 Thru				R352	7500 .5% 1/10W	1-208-803-11	-
FB2005	Ferrite Bead	1-414-230-22	-	R412	7500 .5% 1/10W	1-208-803-11	-
FB2009	Ferrite Bead	1-414-233-22	-	R426	43K .5% 1/10W	1-208-821-11	-
FB2029	Ferrite Bead	-	-	R430, 31	3300 .5% 1/10W	1-208-794-11	-
FB2101	Ferrite Bead	-	-	R432	43K .5% 1/10W	1-208-821-11	-
FB3301, 02	Ferrite Bead	1-414-234-22	-	# R510	33 5% 1W Nonflammable	1-215-860-11	-
FL2001 Thru				R512	68 5% 3W Nonflammable	1-215-910-00	-
FL2004	Filter	1-239-847-11	-	R515	18K .5% 1/10W	1-208-812-11	-
IC2001	Receiver	8-742-088-10	Remote, SBX1780-51	R516	2200 .5% 1/10W	1-208-790-11	-
J231	Jack	1-750-515-11	Assembly	R520	22 5% 3W Nonflammable	1-215-907-11	-
J232	Jack	1-750-517-11	Assembly	R523	12K .5% 1/10W	1-208-808-11	-
J233	Jack	1-750-516-11	Assembly	R525	8200 .5% 1/10W	1-208-804-11	-
J234	Jack	1-750-517-11	Assembly	R528, 29	22K .5% 1/10W	1-208-814-91	-
J235	Jack	1-750-517-11	Assembly	# R530	12K .5% 1/10W	1-208-808-11	-
J236	Jack	1-774-358-11	Assembly	# R531	56K 5% 1/10W	1-216-091-00	-
				R532	120 .5% 1/10W	1-208-760-11	-

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Item No.	Function/Rating	Mfr. Part No.	Notes
# R536, 37	.47 5% 1/2W	1-260-288-11	-
R541	6800 5% 3W Nonflammable	1-215-922-11	-
R542	4700 5% 3W Nonflammable	1-215-921-11	-
# R543	.47 5% 1/4W Nonflammable	1-249-377-11	-
# R545	3.3 5% 1/4W Nonflammable	1-249-387-11	-
R546	22K 1% 1/4W	1-215-453-00	-
R547	33K 1% 1/4W	1-215-457-00	-
R548	4700 5% 3W Nonflammable	1-215-921-11	-
R549	4700 1% 1/4W	1-215-437-00	-
# R550, 53	.47 5% 1/4W Nonflammable	1-249-377-11	-
R560	6800 5% 3W Nonflammable	1-215-922-11	-
R561	10K .5% 1/10W	1-208-806-11	-
R563	1.8 1% 1/2W	1-214-798-21	-
# R567	2.2 5% 1/4W Nonflammable	1-249-385-11	-
R569	10K .5% 1/10W	1-208-806-11	-
R574	1.8 1% 1/2W	1-214-798-21	-
R576	10 5% 3W Nonflammable	1-215-905-11	-
# R601	.47 5% 1/4W Nonflammable	1-249-377-11	-
# R603	2.2M 10% 1/2W	1-219-776-11	-
# R607	.1 10% 1/2W Fusible Nonflammable	1-202-933-61	-
# R623	3.9 5% 20W Wirewound	1-240-257-11	-
# R624, 25	470K 1% 1/4W	1-215-485-00	-
# R639	4.7 5% 1/4W Nonflammable	1-249-389-11	-
R640	470K 1% 1/4W	1-215-485-00	-
R651	33 5% 3W Nonflammable	1-215-908-00	-
# R652	.33 5% 2W Nonflammable	1-216-363-00	-
# R653	1200 1% 1/4W	1-215-423-00	-
R654	330K 1% 1/4W	1-215-481-00	-
R655	100K 1% 1/4W	1-215-469-00	-
# R661	1500 5% 1/4W Nonflammable	1-249-419-11	-
R662	470K 1% 1/4W	1-215-485-00	-
R663	10K 1% 1/4W	1-215-445-00	-
# R664	3.9 5% 20W Wirewound	1-240-257-11	-
R970	47K .5% 1/10W	1-208-822-11	-
R974	12K .5% 1/10W	1-208-808-11	-
R983	1 1% 1/4W	1-214-657-11	-
R985	1000 1% 1/4W	1-215-421-00	-
R988	2200 1% 1/4W	1-215-429-00	-
R991	5600 .5% 1/10W	1-208-800-11	-
R992	3300 .5% 1/10W	1-208-794-11	-
R1215, 28	470 .5% 1/10W	1-208-774-11	-
R1272	1500 .5% 1/10W	1-216-655-11	-
R1273	1800 .5% 1/10W	1-208-788-11	-
R1305A	560 .5% 1/10W	1-208-776-11	-
R1308	560 .5% 1/10W	1-208-776-11	-
# R1753	100 5% 1/4W	1-247-807-31	-
# R1796	2.7 5% 2W Nonflammable	1-216-374-00	-
R1945	330 5% 3W Nonflammable	1-215-914-11	-
R1955	12K .5% 1/10W	1-208-808-11	-
R1961	56K .5% 1/10W	1-208-824-11	-
R1962	10K .5% 1/10W	1-208-806-11	-
# R1963	220 5% 1/10W	1-216-033-00	-
R1967	680K 1% 1/4W	1-215-489-00	-
R1989	33K .5% 1/10W	1-208-818-11	-
R2016	47K .5% 1/10W	1-208-822-11	-
R2033	2200 .5% 1/10W	1-208-790-11	-
R2035, 36	510 .5% 1/10W	1-208-775-11	-
R2037	1200 .5% 1/10W	1-208-784-11	-
R2038	150 .5% 1/10W	1-208-762-11	-
R2044	2200 .5% 1/10W	1-208-790-11	-
R2069	560 .5% 1/10W	1-208-776-11	-
R2070	620 .5% 1/10W	1-208-777-11	-
R2094	15K .5% 1/10W	1-208-810-11	-
R3362	240 .5% 1/10W	1-208-768-11	-
R3363	220 .5% 1/10W	1-208-766-11	-
R3364	300 .5% 1/10W	1-208-769-11	-
RV941	47K H Trap	1-238-019-11	-
RV1761	110M V Static	1-241-714-11	-
# RY600	Relay	1-755-266-11	Power
# RY601	Relay	1-755-146-11	Degaussing
S501	Switch	1-572-707-11	Horizontal Centering
S502	Switch	1-572-707-11	Horizontal Centering
S2001	Switch	1-572-198-11	Volume -
S2002	Switch	1-572-198-11	Volume +

Item No.	Function/Rating	Mfr. Part No.	Notes
S2003	Switch	1-572-198-11	Channel -
S2004	Switch	1-572-198-11	Channel +
S2005	Switch	1-572-198-11	TV/Video
S2006	Switch	1-572-198-11	Power
S2007	Switch	1-572-198-11	Menu
S2008	Switch	1-572-198-11	Up
S2009	Switch	1-572-198-11	Down
S2010	Switch	1-572-198-11	Select
SPL	Speaker	1-529-358-11	-
SPR	Speaker	1-529-358-11	-
T501	Horizontal Drive	1-437-195-11	-
# T502	PMT	1-426-981-11	-
# T503 (4)	Horizontal Output	1-453-286-11	-
# T504	Dynamic Focus	1-424-584-11	-
# T505	Horizontal Linearity	1-419-192-11	-
# T601	Line Filter	1-426-717-11	-
# T602	Line Filter	1-426-717-11	-
# T603	Converter (PRT)	1-429-992-21	-
# T605	Converter (PIT)	1-433-408-11	-
# T621	Converter (SRT)	1-431-852-11	-
TH501	Thermistor	1-800-193-00	-
# THP601, 02	Thermistor	1-809-539-11	-
# TU101	Sub Tuner	8-598-430-00	BTF-FA401
# TU102	Main Tuner	8-598-431-00	BTF-WA411
# V701 (1)	CRT	8-735-047-61	34RSN-A1
# V701 (2)	CRT	8-735-048-61	38RSN-A1
# VDR601, 02	ERZV10D271	1-801-074-41	-
X001	Crystal	1-578-774-11	12MHz
X302	Crystal	1-567-505-11	3.58MHz
X2001	Crystal	1-767-606-11	20MHz
X2002	Crystal	1-767-367-21	-
X3302	Crystal	1-760-095-21	20.48MHz
X3303	Crystal	1-577-611-11	-
X3304	Crystal	1-567-505-11	3.58MHz
	Antenna Switch	8-598-414-10	AS-2F
	Fuse Holder	1-533-233-11	For F601
	N/S Coil	-	-
#	Neck Assembly (3)	-	-
	PC Board (1)	A-1298-890-A	A
	PC Board (2)	A-1298-961-A	A
	PC Board	A-1298-980-A	AK
	PC Board	A-1331-942-A	C
	PC Board	A-1316-397-A	G
	PC Board	A-1372-634-A	HA
	PC Board	A-1372-636-A	HX
	PC Board	A-1372-635-A	HB
	PC Board	A-1394-934-A	T
	PC Board	A-1394-947-A	UX
	PC Board (1)	A-1375-187-A	WA
	PC Board (2)	A-1375-191-A	WA
	Transmitter	1-418-465-11	Remote, (RM-Y170)

# For SAFETY use only equivalent replacement part.

(1) Used in model KV-32XBR250.

(2) Used in model KV-36XBR250.

(3) Bonded part of CRT.

(4) Screen and focus controls are part of T503.

SONY

MODEL KV-36XBR250 (CHASSIS SCC-S32F-A)