

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.

TEST JIG HOOKUP				
Function	Chek-A-Color Adapter No.	PC Board Plug No.	Pin	Color
CRT	B239	KX	1	Red
Yoke	D4137		3	Blue
Yoke Setting	YP3		4	Yellow
Comments	Focus Tap		5	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.

Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

©1995 by Howard W. Sams & Company
2647 Waterfront Parkway East Drive, Suite 300
Indianapolis, IN 46214-2012

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

SAFETY CHECKS – FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

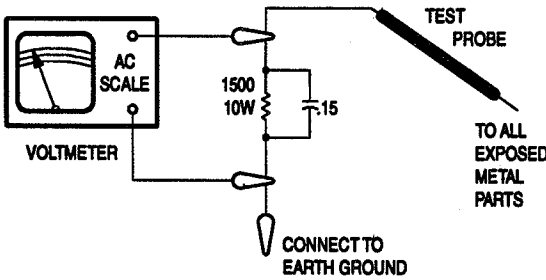
Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with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

Hot Leakage Current Check

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

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.



95PF02894



0 81262 03566 5

PHOTOFACT® Technical Service Data

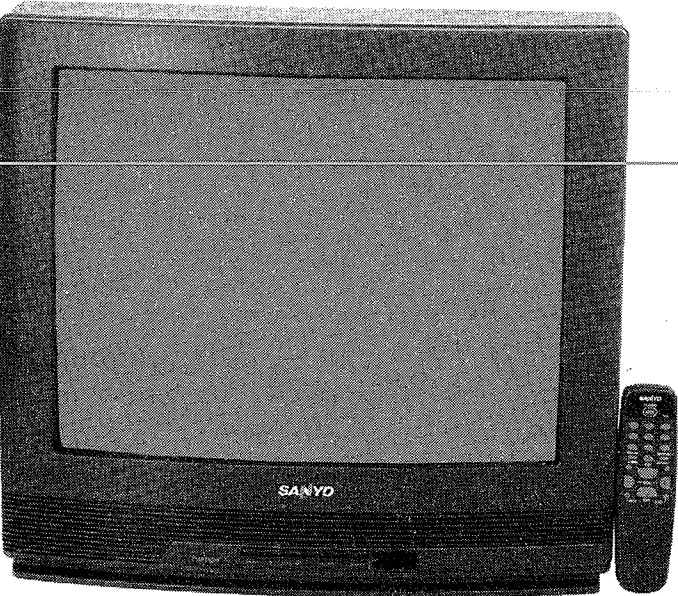
SET 3566

MODEL AVM-2005 (CHASSIS G4Z-20050)

SANYO

INDEX	
GridTrace Location	
Main Board	1
IC Functions	1
Important Parts Information	4
Miscellaneous Adjustments	1
Parts List	3, 4
Placement Chart	1
Safety Precautions	1
Schematics	
Power Supply	2
System Control	2
Television	2
Schematic Notes	2
Test Equipment	4
Test Jig Hookup	1
Troubleshooting	1
Tuner Information	2

SANYO
Model AVM-2005 (Chassis G4Z-20050)



Complete coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list
- Troubleshooting guide

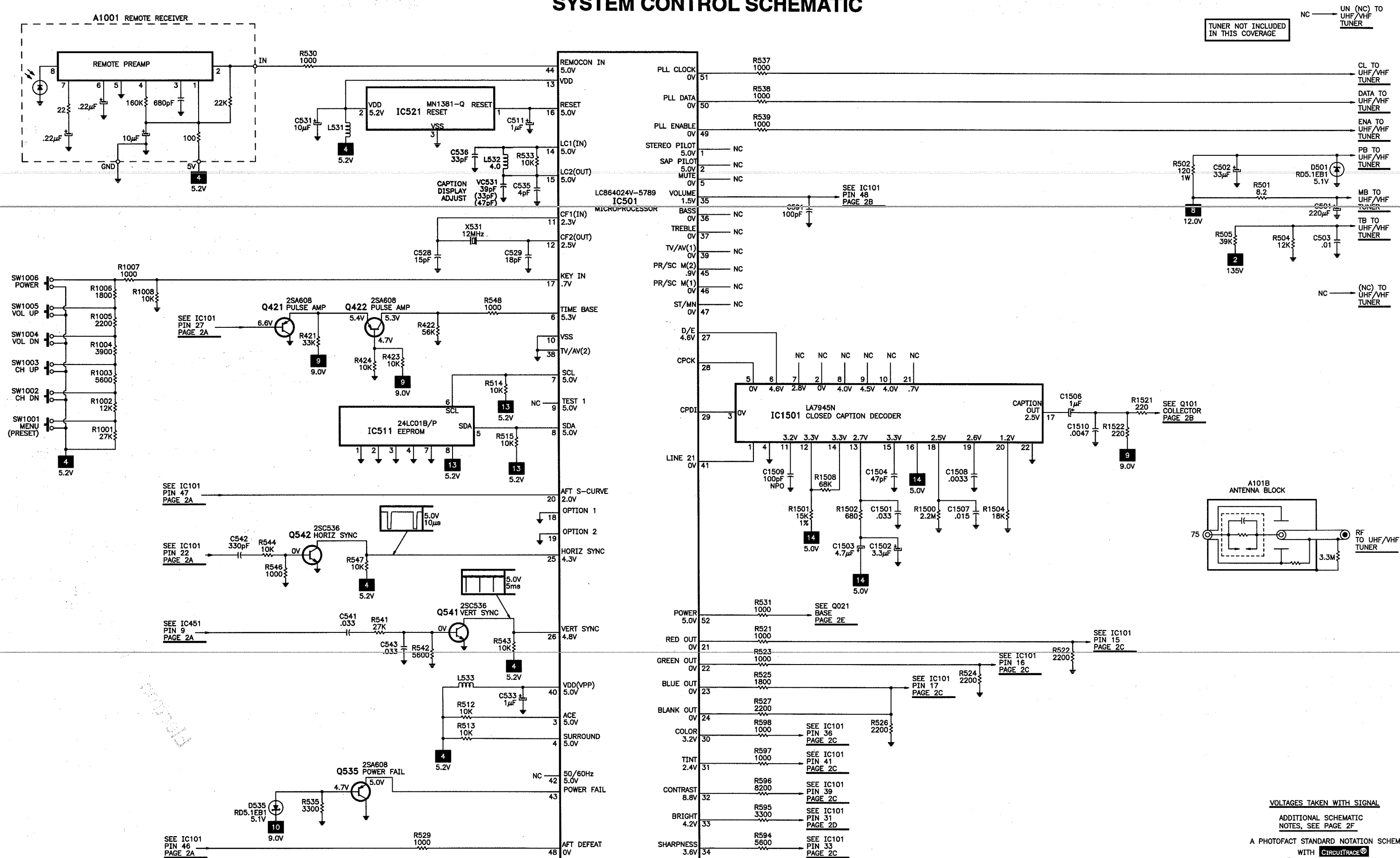


HOWARD W. SAMS & COMPANY

NOVEMBER 1995 SET 3566

For Supplier Address,
See PHOTOFACT Annual Index

SYSTEM CONTROL SCHEMATIC



SAINTO

MODEL AVM-2005 (CHASSIS G4E-2005V)

VOLTAGES TAKEN WITH SIGNAL

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2F

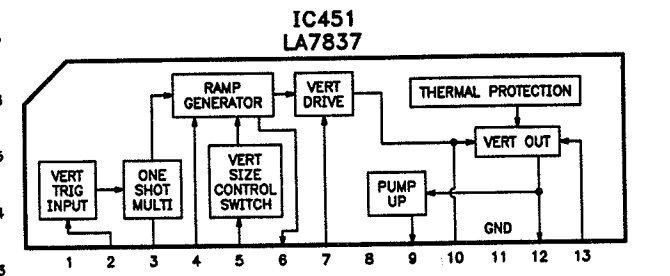
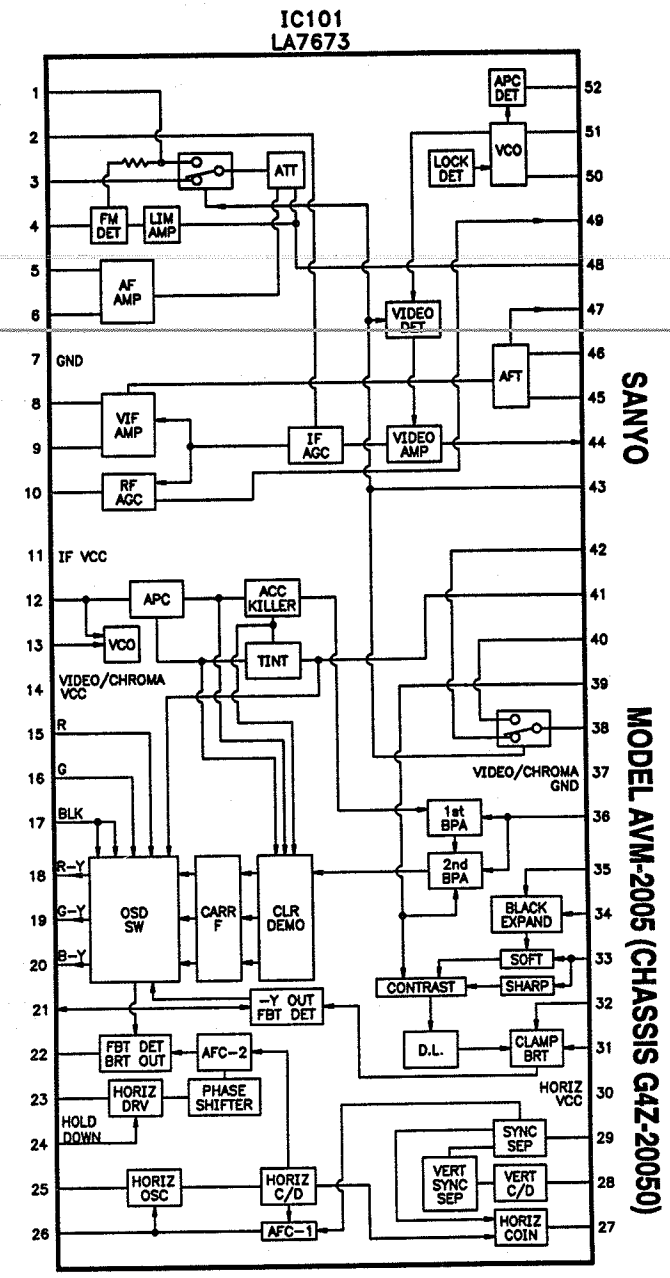
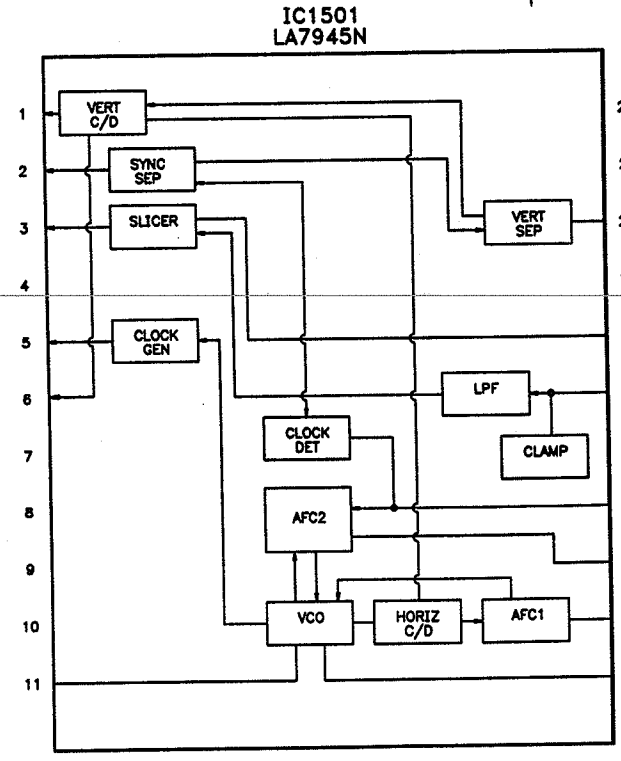
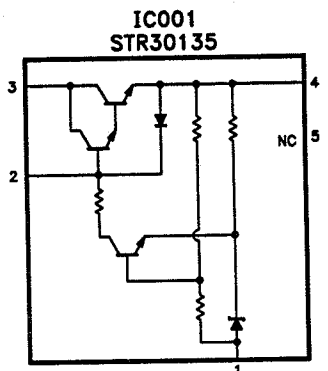
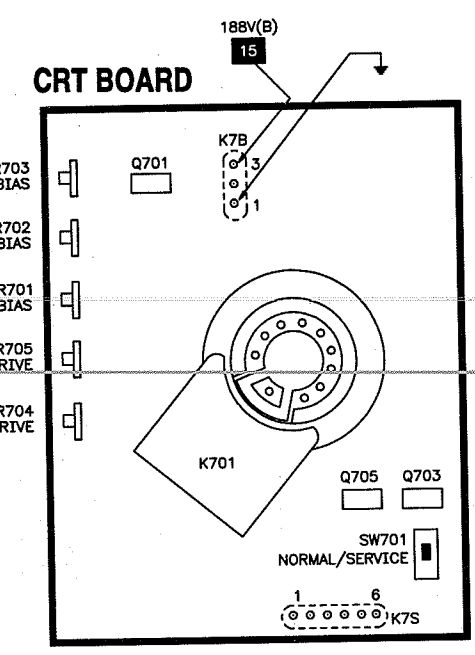
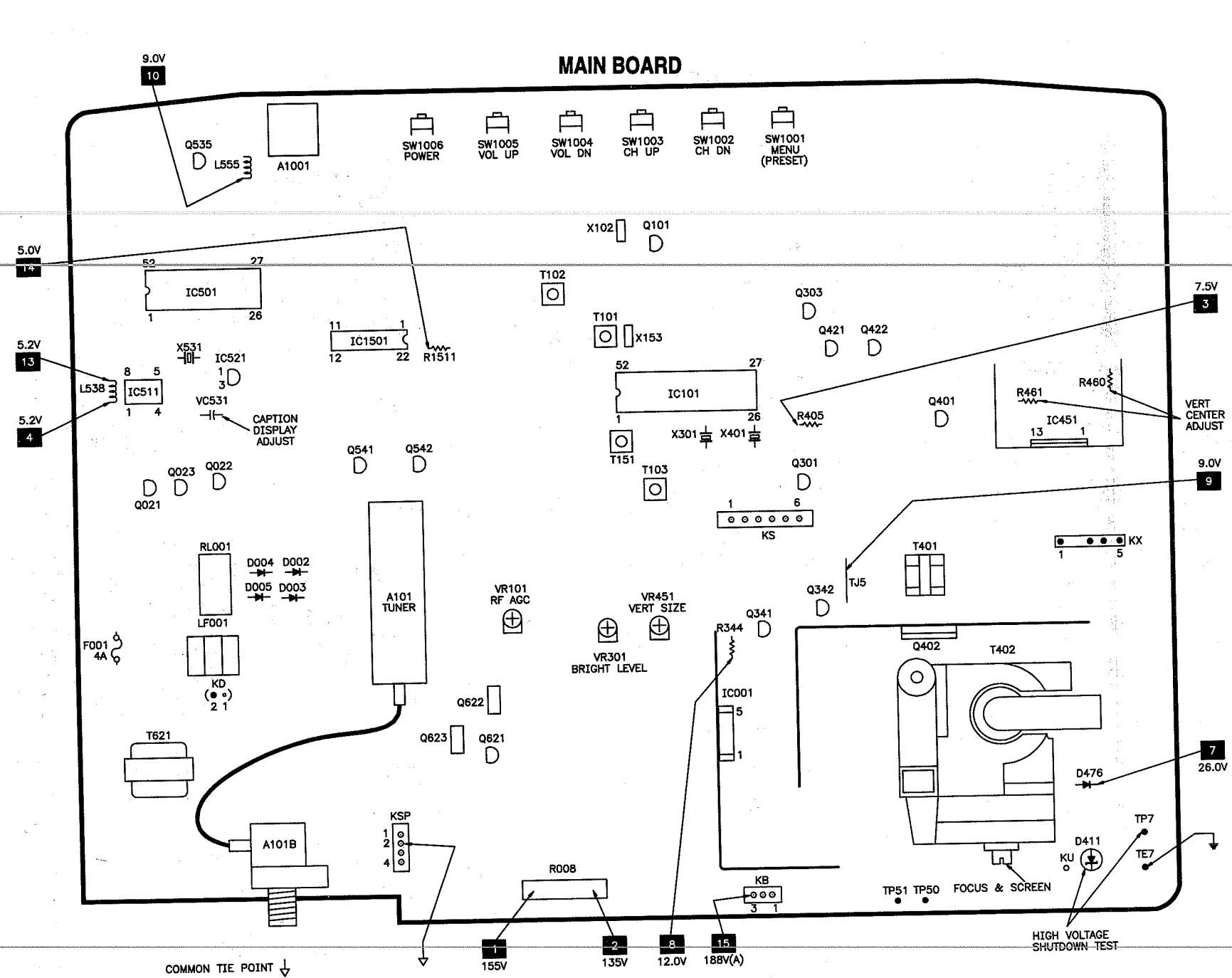
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITTRACE®**

© Howard W. Sams & Co. 1985

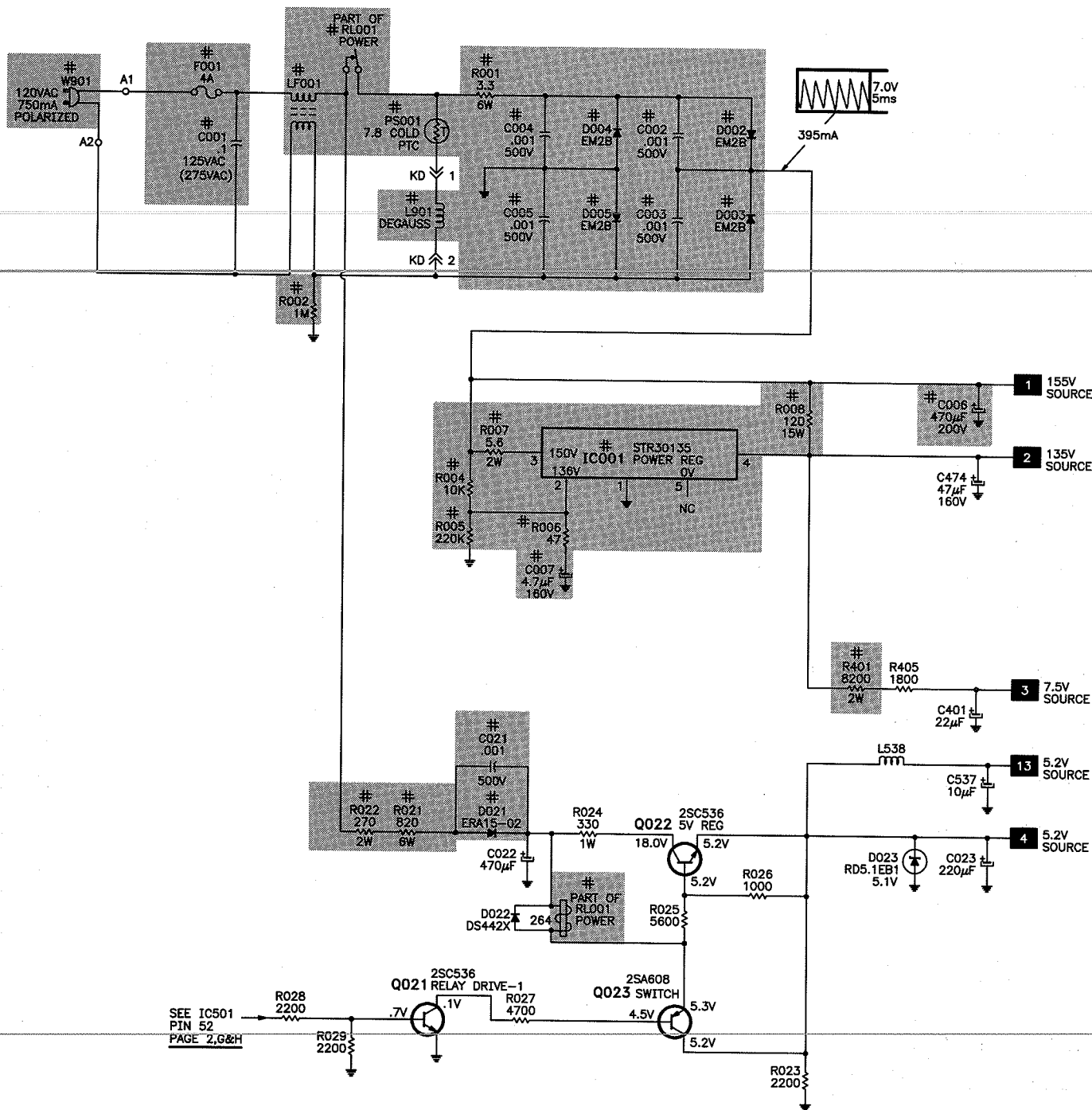
PLACEMENT CHART

IC FUNCTIONS



SANYO
MODEL AVM-2005 (CHASSIS G4Z-20050)

POWER SUPPLY SCHEMATIC



SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement part, see parts list.
- ✗ Circuitry not used in some versions.
- Circuitry used in some versions.
- ⬇ Ground
- ⬆ Chassis ground
- ▽ Common tie point
- △ Taken from common tie point
- 3 Schematic CIRCUITRACE®: Voltage source tie point.
- A— Cabling: Heavy lines reduce use of multiple lines.

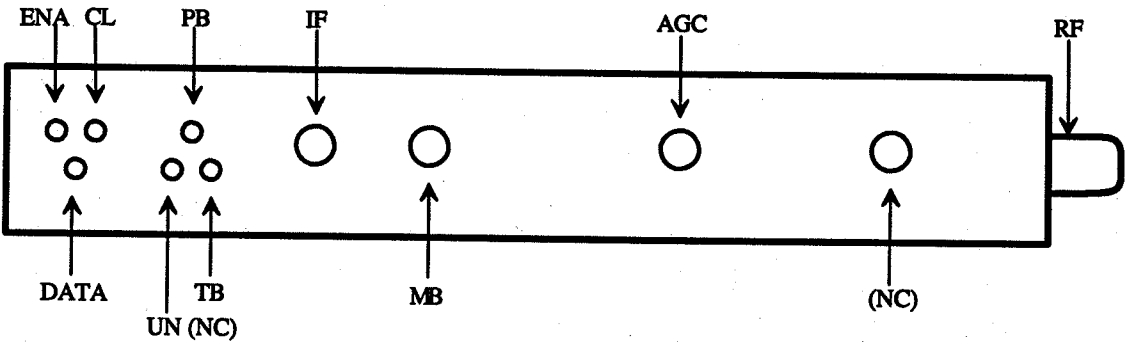
Waveforms and voltages are taken from ground, unless noted otherwise.
Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.
Supply voltages maintained as seen at input.
Voltages measured with digital meter and a 1000µV RF signal, with colorbar pattern, applied to antenna terminal.
Controls adjusted for normal operation.
Capacitors are 50 volts or less, 5% or greater unless noted.
Electrolytic capacitors are 50 volts or less, 20% or greater unless noted.
Resistors are 1/2W or less, 5% or greater unless noted.
Value in () used in some versions.
Measurements with switching as shown, unless noted.
Rated voltage shown on zener diodes.

TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band	Pin	VHF Low Band	VHF High Band	UHF Band
(NC)	1.6V	4.5V	6.5V	CL	0V	0V	0V
AGC	5.6V	5.2V	4.8V	DATA	0V	0V	0V
MB	11.9V	12.0V	12.0V	ENA	.1V	.1V	.1V
IF	0V	0V	0V	NOTE: VHF Low Band voltages taken on channel 2. VHF High Band voltages taken on channel 7. UHF Band voltages taken on channel 14.			
TB	20.5V	21.6V	22.4V				
PB	5.1V	5.1V	5.1V				
UN (NC)	.1V	.1V	.1V				

TUNER TERMINAL GUIDE



MISCELLANEOUS ADJUSTMENTS

HIGH VOLTAGE CHECK

Tune in a picture, set brightness, contrast, and color to minimum. Connect a high voltage probe to CRT anode. High voltage range should be between 26.0kV and 27.5kV.

B+ 135V CHECK

Turn receiver on and tune in an active station. Set the Picture Adjust mode to auto. Check the voltage at pin 4 of IC001, it should be 135V ±1V.

RF AGC

Turn receiver on and tune in an active station. Turn VR101 fully clockwise, then counterclockwise to a point where snow just disappears.

BRIGHTNESS LEVEL

Tune in a color bar pattern. Set the Picture Adjust mode to auto. Connect positive lead of a digital voltmeter to TP51 and the negative lead to TP50. Adjust VR301 for .06V. Check the brightness level on every active channel, repeat the process if necessary.

VERTICAL CENTERING

Tune in a crosshatch pattern. If pattern is low, install R460 (1000 Ohms 1/2W). If pattern is high, install R461 (2200 Ohms 1/2W).

CAPTION DISPLAY

Turn receiver on and tune in a caption channel. Set receiver to the caption : text mode. Caption box should appear. If caption box is too far left, change value of VC531 from 39pF to 47pF. If caption box is too far right, change value of VC531 from 39pF to 33pF.

WHITE BALANCE

Turn receiver on. Allow a 10 to 30 minute warm up time. Tune in an inactive channel. Set screen, VR703, VR702, and VR701 to minimum. Set VR704 and VR705 to midrange. Set SW701 to service position. Advance the screen control until a faint line of one predominant color appears on the screen. Adjust VR701, VR702, and VR703 for a dim white line. Set SW701 to normal position. Adjust VR704 and VR705 for best black and white picture on screen.

PURITY

NOTE: Operate the receiver for 15 minutes to allow warm-up of CRT.

Use a degaussing coil to demagnetize the CRT. Tune in a green raster. Loosen the retainer screw. Slide deflection yoke back as far as possible. Adjust purity tabs to center the vertical green band. Loosen the clamp screw. Slide the deflection yoke forward to produce a uniform green screen. Tighten the clamp screw. Tighten the screw on retainer.

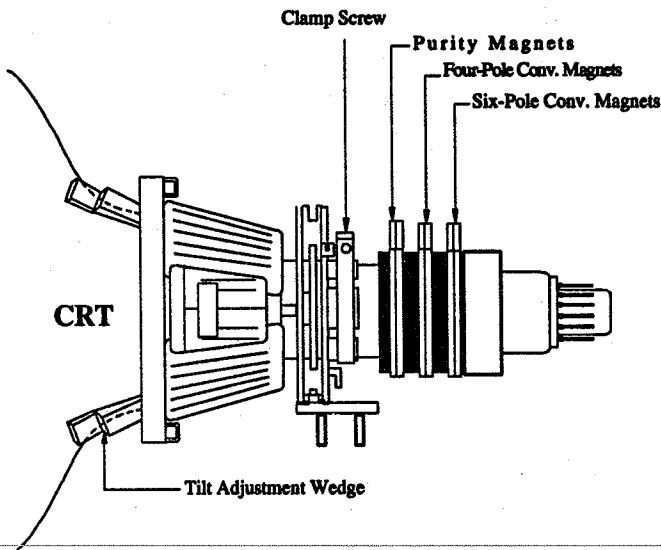
CONVERGENCE

Tune in a dot pattern. Loosen the screw on retainer. Adjust the 4 pole magnets to converge the red and blue dots at the center of the screen. Adjust the 6 pole magnets to converge the red/blue dots over the green dots at the center of the screen.

NOTE: Rotate the two tabs of each set of magnets equally and opposite to converge vertically and rotate both tabs in the same direction to converge horizontally. The 4 and 6 pole magnets interact, repeat adjustment until center convergence is correct.

Tune in a crosshatch pattern. Remove the tilt adjustment wedges between deflection yoke and the CRT. Loosen the clamp screw. Tilt the deflection yoke up or down to converge the vertical lines at the top and bottom of the screen and the horizontal lines at the right and left sides of the screen. Tilt the deflection yoke to the right or left to converge the horizontal line at the top and bottom of the screen and the vertical line at the right and left sides of the screen. Repeat convergence procedure if necessary to obtain best overall convergence. Replace the tilt adjustment wedges. Tighten the clamp and retainer screw.

CRT NECK ASSEMBLY



POWER SUPPLY

Check F001. If open, check D002 thru D005, C001 thru C006, and IC001. Apply 120VAC and check 5.2V standby voltage at the emitter of Q022. If the voltage is incorrect or missing, check D021, D023, and Q022. Turn receiver on and check for 135V at pin 4 of IC001. If voltage is missing, check IC001, Q021, Q023, RL001, R001, and D002 thru D005. If 135V is present, refer to "Horizontal" section of this Troubleshooting guide.

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC, turn the receiver on, and set all customer controls for normal operation. Measure the voltage at TP7. Voltage should measure between 14.5V and 21.0V. If voltage exceeds this range the circuit must be repaired. Momentarily connect a jumper between TP7 and the cathode of D411. The receiver should lose raster and sound. If receiver does not lose raster and sound, the shutdown circuit should be repaired. To resume normal operation, remove AC power and wait 30 seconds, then turn the receiver on.

HIGH VOLTAGE SHUTDOWN

NOTE: Care should be taken in defeating the high voltage shutdown circuit as this may cause excessive X-Ray radiation and damage to the CRT and T402. Monitor the high voltage and troubleshoot.

The high voltage from T402 is monitored and rectified by D483. Should the high voltage increase, the voltage at the cathode of D412 will also increase and trigger D412 and D411. This will cause deflection portion of IC101 to shut down the horizontal drive signal at pin 23 of IC101, causing the receiver to lose sound and raster.

Voltages Taken in Shutdown

IC101	
Pin 22	0V
Pin 24	.7V

HORIZONTAL

To determine if the TV is in shutdown, refer to the "High Voltage Shutdown" section of this Troubleshooting guide. If TV is not in shutdown, inject a horizontal signal at base of Q402. If horizontal deflection is now present, check Q401, T401, and pins 22 thru 27 of IC101. If horizontal deflection is still missing, check Q402 and T402. The high voltage rectifier is part of T402 and if defective will affect the performance of the horizontal circuits. Width or foldover problems may be caused by C432, C433, C434, and C437 being defective.

VERTICAL

Inject a vertical signal at pin 2 of IC451. If vertical deflection is present, check pin 28 and 29 of IC101. If there is still no vertical deflection, check IC451 and the deflection yoke. Vertical linearity or foldover problems may be caused by sweep shaping and bias circuits, check C451, C452, C453, C457, and C458.

IF AGC

Inject a video IF signal at the IF input and check for video on the CRT. If video is present, check the tuner and tuner control circuits. If video is missing on the CRT, check for a video waveform at pin 44 of IC101. If video waveform is present, refer to the "Video" section of this Troubleshooting guide. Apply AGC bias to pin 2 of IC101 and check for a video waveform at pin 44 of IC101. If video

TROUBLESHOOTING

waveform is present, check pins 2, 10, 47, and 49 of IC101. If there is no video waveform, check IC101.

VIDEO

Inject a video signal at the base of Q101. If video is present on the CRT, refer to the "IF AGC" section of this Troubleshooting guide. Check for a video waveform at pin 34 of IC101. If the waveform is missing, check Q101 and Q303. Check for a waveform at the emitter of Q301. If the waveform is missing, check Q301 and pins 21, 31 thru 35, and 39 of IC101. If brightness is inadequate or cannot be controlled, check pin 31 of IC101 and pin 33 of IC501.

RASTER

Check the CRT and CRT voltages. If red is missing, check pin 18 of IC101 and Q705. If green is missing, check pin 19 of IC101 and Q703. If blue is missing, check pin 20 of IC101 and Q701. If the raster has a keystone shape, check the deflection yoke. If the raster has height or width problems, refer to the "Vertical," "Horizontal," and "Power Supply" sections of this Troubleshooting guide.

CHROMA

Check for a chroma waveform at pin 36 of IC101. If the waveform is missing, check Q101. If the waveform is present, check for the proper waveforms at pins 18, 19, and 20 of IC101. If these waveforms are missing, check pins 12 thru 20, 36, and 41 of IC101. Check for proper tint control at pin 41 of IC101 and pin 31 of IC501. Check the 3.58MHz oscillator at pin 13 of IC101. If the proper waveforms are present, refer to the "Raster" section of this Troubleshooting guide.

AUDIO

Tune in an active channel and check for an audio waveform at pin 6 of IC101. If the waveform is missing, check pins 1, 3 thru 6, 44, and 48 of IC101. If the waveform is present, check Q621, Q622, Q623, and T621. Check the voltage at pin 35 of IC501. It should measure 0V at mute and 6.9V at maximum volume.

POWER FAILURE DETECTOR

This receiver uses a power failure detector, pin 43 of IC501, which checks for an abnormal failure of power supply circuits. If an unexpected failure is caused by any one of three conditions, the receiver will shut itself off in about 1 second to prevent damage.

The three conditions are:

1. Failure within the power supply.
2. A short circuit on the load side of the power supply.
3. Stoppage of horizontal oscillation caused by shutdown circuits.

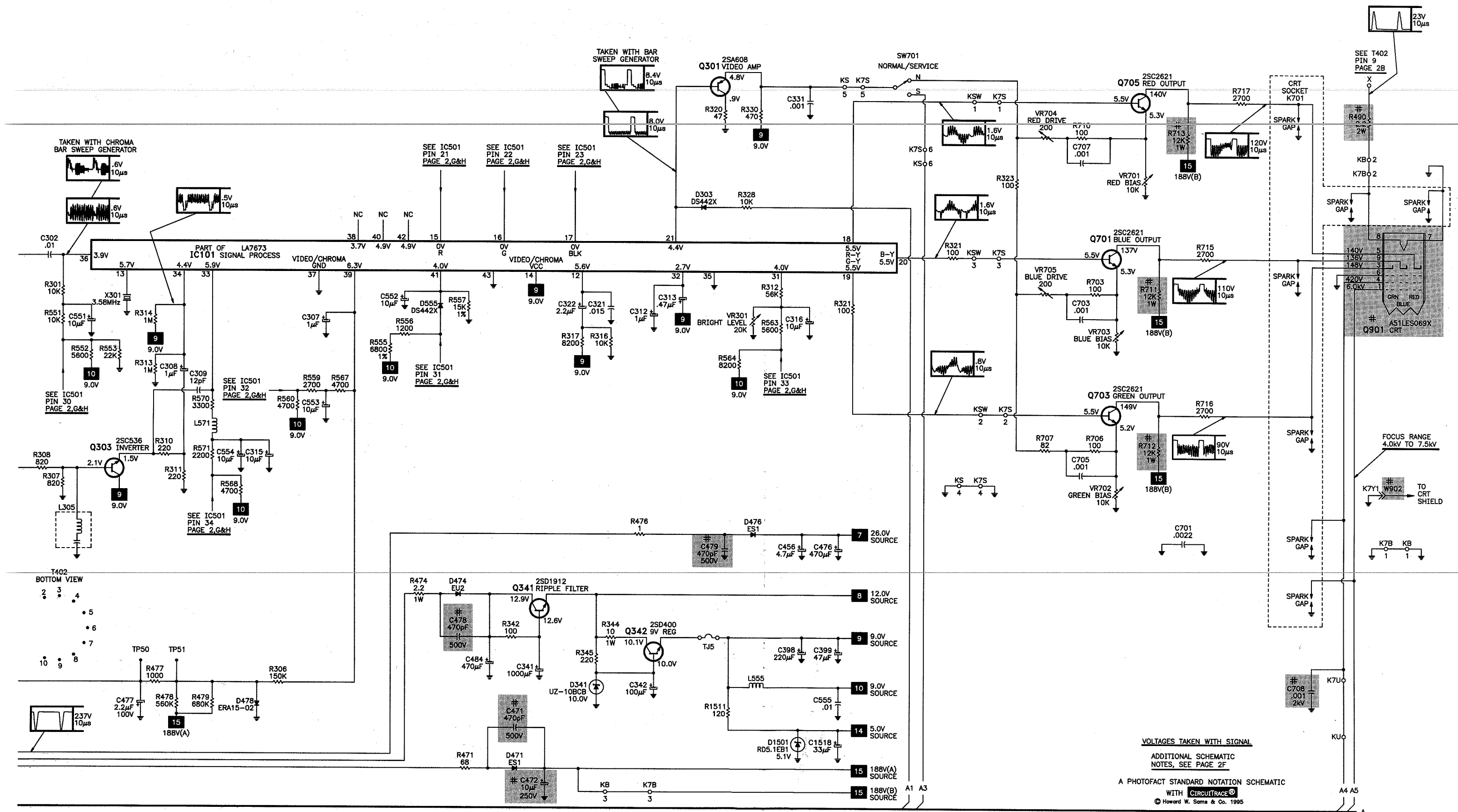
The power will shut itself off within 2.5 seconds if any of these conditions remain uncorrected. If the receiver is turned off by the power failure detector, press the power button and check the voltage at the emitter of Q342. It should measure 9.0V. If this voltage is low, the receiver will be turned off within 2.5 seconds.

C

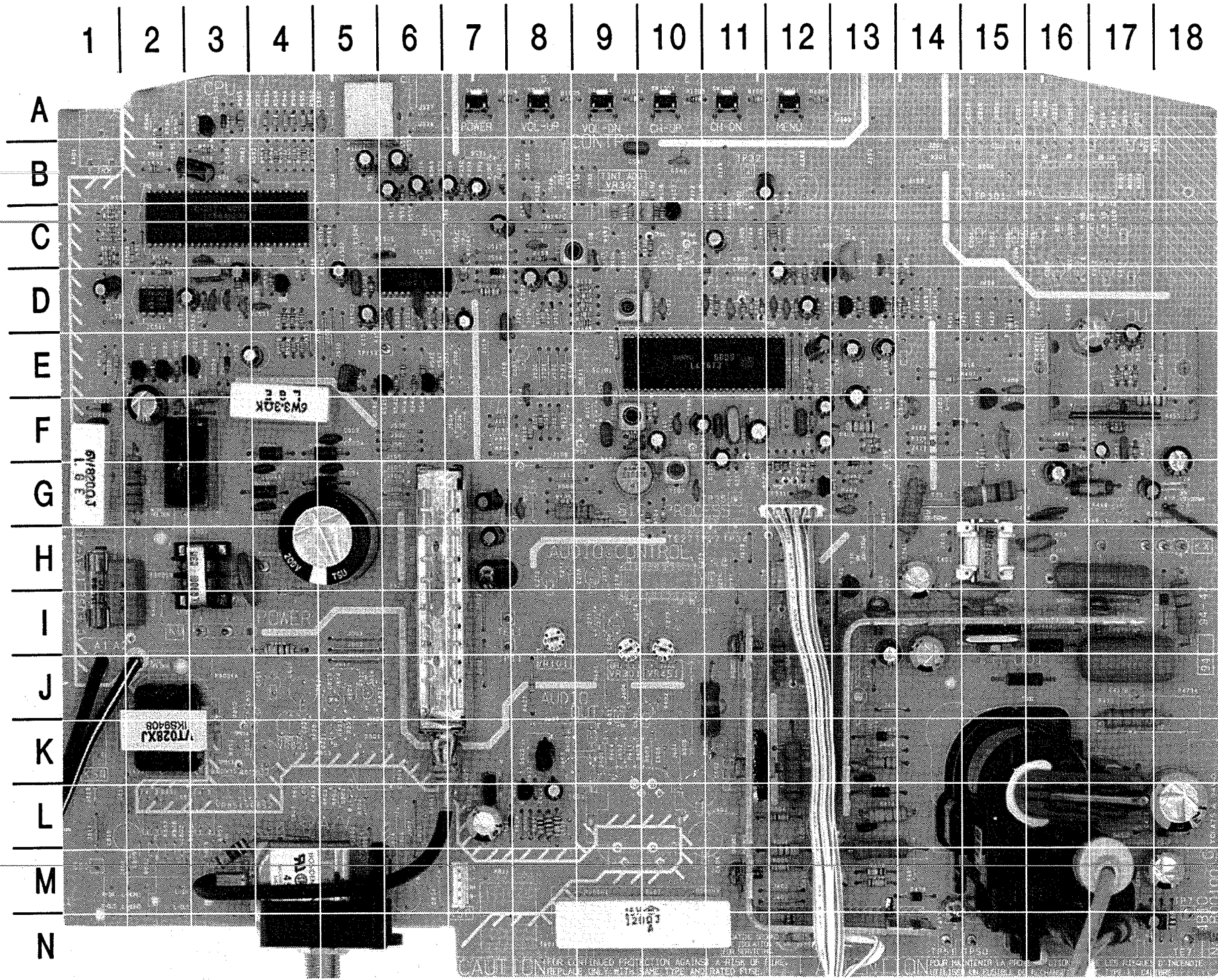
TELEVISION SCHEMATIC continued

D

SET 3566 Page 2



MAIN BOARD

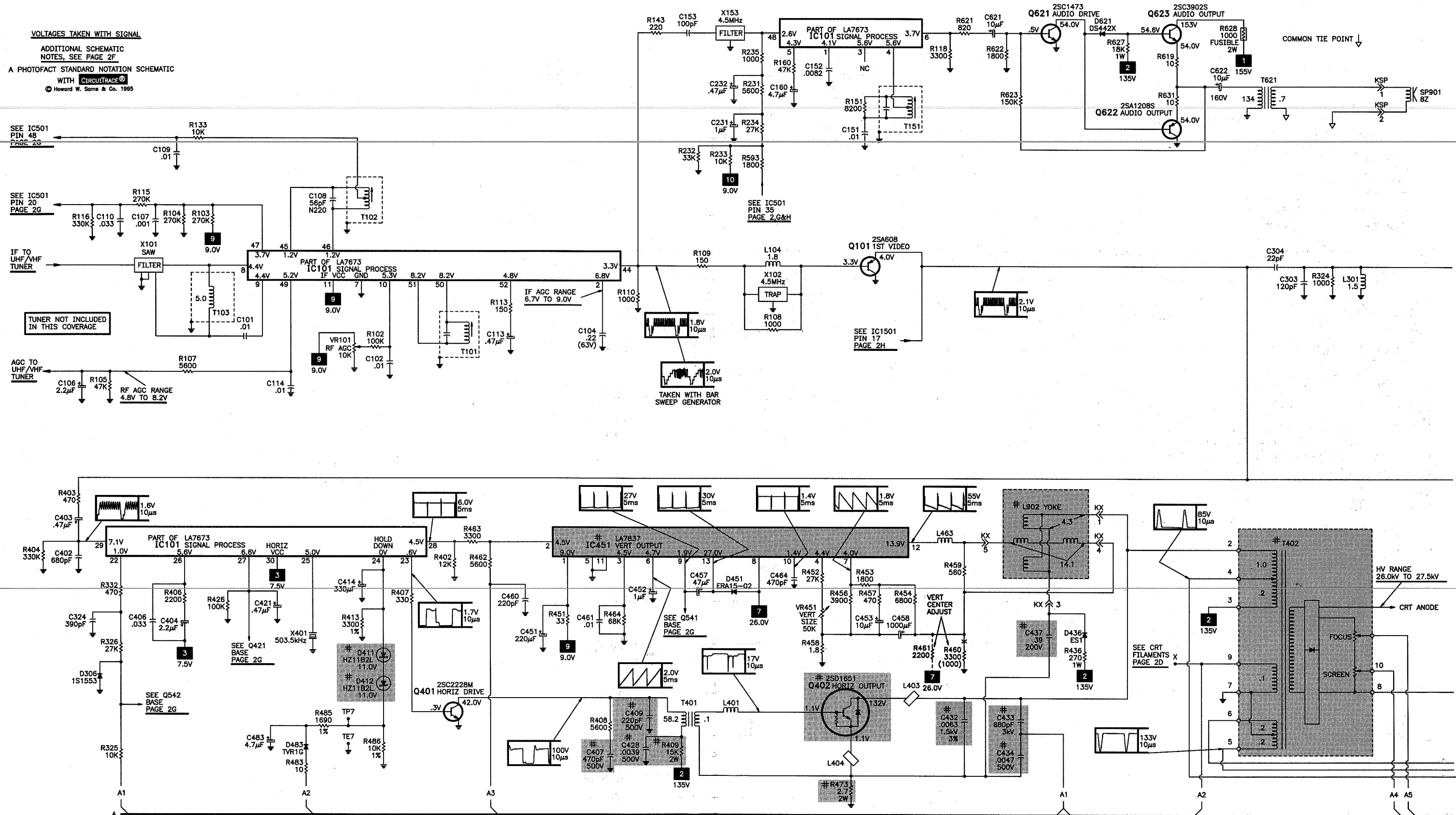


A HOWARD W. SAMS GRIDTRACE™ PHOTO

MAIN BOARD, GRIDTRACE LOCATION GUIDE

A101	G-6	C458	E-17	D555	B-5	R103	D-9	R458	E-17	R598	B-4
A101B	I-6	C460	G-13	D621	L-7	R104	D-9	R459	G-18	R619	L-8
A1001	A-5	C461	E-17	D1501	D-7	R105	G-8	R460	E-18	R621	J-8
C001	H-1	C464	G-16	F001	H-1	R107	F-8	R462	G-13	R622	L-8
C002	F-5	C471	K-13	IC001	K-11	R108	C-10	R463	G-13	R623	L-8
C003	G-5	C472	M-12	IC101	E-10	R109	C-9	R464	E-17	R627	N-9
C004	G-4	C474	L-18	IC451	F-17	R110	C-10	R471	K-13	R628	J-11
C005	G-4	C476	M-18	IC501	C-3	R113	D-9	R473	J-17	R631	L-8
C006	H-5	C477	M-14	IC511	D-2	R115	D-9	R474	L-13	R1001	A-12
C007	L-12	C478	L-13	IC521	D-4	R116	D-8	R476	L-17	R1002	A-11
C021	F-1	C479	M-17	IC1501	D-6	R118	F-8	R477	M-15	R1003	A-10
C022	F-2	C483	N-17	KB	N-12	R133	C-8	R478	M-13	R1004	A-9
C023	E-3	C484	J-14	KD	I-3	R143	C-10	R479	M-13	R1005	A-8
C101	F-10	C501	H-7	KS	G-12	R151	F-9	R483	N-18	R1006	A-8
C102	G-10	C502	G-7	KSP	M-7	R160	F-10	R485	N-17	R1007	C-1
C104	F-9	C503	G-8	KX	H-17	R231	B-7	R486	N-17	R1008	C-2
C106	H-7	C511	D-3	L104	C-10	R232	B-7	R490	M-13	R1500	D-6
C107	D-10	C528	C-3	L301	D-11	R233	A-4	R501	G-9	R1501	D-6
C108	C-9	C529	D-3	L305	C-13	R234	B-7	R502	G-8	R1502	D-5
C109	C-8	C531	D-3	L401	I-15	R235	D-9	R504	G-10	R1504	D-7
C110	D-7	C533	B-2	L403	J-16	R301	D-11	R505	H-12	R1508	D-5
C113	D-8	C535	D-3	L404	I-16	R306	D-15	R512	C-1	R1511	D-7
C114	E-8	C536	D-3	L463	G-17	R307	D-13	R513	C-1	R1521	B-8
C151	F-9	C537	D-1	L531	D-3	R308	D-14	R514	C-2	R1522	C-8
C152	E-9	C541	B-9	L532	D-3	R310	D-12	R515	D-2	RL001	G-2
C153	D-10	C542	B-10	L533	B-2	R311	D-12	R521	D-4	SW1001	A-12
C160	F-10	C543	E-5	L538	D-1	R312	D-11	R522	E-4	SW1002	A-11
C231	B-7	C551	B-6	L555	A-3	R313	D-12	R523	D-4	SW1003	A-10
C232	D-8	C552	B-5	L571	C-12	R314	D-12	R524	E-4	SW1004	A-9
C302	D-11	C553	B-6	LF001	H-3	R316	G-11	R525	D-4	SW1005	A-8
C303	D-11	C554	B-7	PS001	H-3	R317	F-11	R526	E-3	SW1006	A-7
C304	C-13	C555	A-5	Q021	E-2	R320	G-12	R527	D-4	T101	D-9
C307	C-11	C591	B-3	Q022	E-3	R321	G-12	R529	B-3	T102	C-9
C308	D-12	C621	L-8	Q023	E-2	R322	G-12	R530	A-2	T103	G-10
C309	D-12	C622	L-7	Q101	C-10	R323	G-12	R531	C-1	T151	F-9
C312	E-12	C1501	D-5	Q301	G-12	R324	D-11	R533	D-4	T401	H-5
C313	E-13	C1502	D-5	Q303	D-12	R325	F-14	R535	A-3	T402	L-16
C315	B-11	C1503	D-5	Q341	I-12	R326	F-12	R537	C-1	T621	K-2
C316	B-6	C1504	D-6	Q342	H-13	R328	F-13	R538	C-1	TE11	I-7
C321	F-11	C1506	C-7	Q401	F-15	R330	G-12	R539	C-1	TE7	N-18
C322	F-11	C1507	D-6	Q402	I-15	R332	F-13	R541	E-6	TP11	I-7
C324	E-13	C1508	D-7	Q421	D-13	R342	I-12	R542	E-6	TP50	N-15
C331	G-12	C1509	C-6	Q422	D-13	R344	J-12	R543	E-5	TP51	N-14
C341	H-14	C1510	C-8	Q535	A-3	R345	J-12	R544	E-6	TP7	N-18
C342	J-13	C1518	D-7	Q541	E-6	R401	G-14	R546	E-6	VC531	D-4
C398	F-11	D002	F-5	Q542	E-6	R402	E-12	R547	E-6	VR101	I-8
C399	F-10	D003	G-5	Q621	L-8	R403	D-12	R548	A-2	VR301	I-9
C401	F-12	D004	F-4	Q622	K-8	R404	D-12	R551	B-6	VR451	I-10
C402	D-12	D005	G-4	Q623	L-7	R405	F-13	R552	A-4	W901	J-1
C403	D-12	D021	F-1	R001	F-4	R406	F-12	R553	B-6	X101	G-9
C404	F-12	D022	F-3	R002	I-4	R407	E-14	R555	A-3	X102	C-10
C406	F-12	D023	E-3	R004	L-12	R408	F-15	R556	A-4	X153	D-10
C407	F-15	D303	G-13	R005	M-12	R409	G-15	R557	C-9	X301	F-11
C409	E-15	D306	F-14	R006	M-12	R413	N-17	R559	B-6	X401	F-12
C414	E-13	D341	J-12	R007	K-12	R421	D-13	R560	A-4	X531	D-3
C421	E-12	D411	N-17	R008	N-8	R422	D-13	R563	B-6		
C428	F-15	D412	N-17	R021	G-1	R423	D-14	R564	A-4		
C432	H-17	D436	I-18	R022	G-2	R424	D-13	R567	B-9		
C433	H-16	D451	F-16	R023	E-1	R426	E-12	R568	A-4		
C434	G-16	D471	K-13	R024	F-3	R436	I-18	R570	D-11		
C437	J-17	D474	L-13	R025	E-2	R451	D-14	R571	B-6		
C451	F-18	D476	L-18	R026	E-2	R452	E-17	R593	B-4		
C452	F-17	D478	M-14	R027	E-2	R453	E-17	R594	B-4		
C453	E-17	D483	N-18	R028	E-1	R454	E-17	R595	B-4		
C456	G-17	D501	G-7	R029	E-2	R456	E-17	R596	B-4		
C457	G-16	D535	A-3	R102	G-10	R457	E-17	R597	B-4		

© Howard W. Sams & Co. 1995



PARTS LIST continued

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q023	2SA608KF	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
Q101	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
	2SA608KE	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
	2SA608KE	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
Q301	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
	2SA608KE	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
Q303	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
	2SC536KE	-	NTE85	ECG85	SK3245
	2SC536-E-NP	405 019 1909	NTE85	ECG85	SK3245
Q303	2SC536-F-NP	405 019 2708	NTE85	ECG85	SK3245
	2SC536-G-NP	405 019 3804	NTE85	ECG85	SK3245
	2SC1740-Q	405 011 7305	NTE85	ECG85	SK3122
	2SC1740-R	405 011 7404	NTE85	ECG85	SK3122
	2SC1740-S	405 011 7503	NTE85	ECG85	SK3122
	2SC1740S-Q	405 011 8401	NTE85	ECG85	SK3122
	2SC1740S-R	405 011 8500	NTE85	ECG85	SK3122
	2SC1740S-S	405 011 8609	NTE85	ECG85	SK3122
	2SC1815-GR	405 012 2002	NTE85	ECG85	SK3124A
	2SC1815-O	405 012 2101	NTE85	ECG85	SK3124A
Q303	2SC1815-Y	405 012 2309	NTE85	ECG85	SK3124A
	2SC945A-PA	405 020 7501	NTE85	ECG85	SK3124A
	2SC945A-QA	405 020 7709	NTE85	ECG85	SK3124A
	2SC945A-RA	405 020 7907	NTE85	ECG85	SK3124A

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q341	2SD1912	-	-	-	-
	2SD1913-Q-RA	405 059 9804	NTE152	ECG152	SK3893
	2SD1913-R-RA	405 059 9903	NTE152	ECG152	SK3893
Q342	2SD400F	-	NTE382	ECG382	SK3849
	2SD400-E-MP	405 023 5009	NTE382	ECG382	SK3849
	2SD400-F-MP	405 023 5306	NTE382	ECG382	SK3849
Q401	2SC2228M	405 040 6102	NTE399	ECG399	SK3866A
	2SC2229-M(SAN-1)	406 000 5302	NTE399	ECG399	SK3244
# Q402	2SD1651	-	NTE2331	ECG2331	SK9422
	2SD1651-CTV-YB	405-022-6809	NTE2331	ECG2331	SK9422
Q421, 22	2SA608KE	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
Q535	2SA608KE	-	NTE290A	ECG290A	SK3114A
	2SA608-E-CTV-NP	405 004 4205	NTE290A	ECG290A	SK3114A
	2SA608-F-CTV-NP	405 004 4809	NTE290A	ECG290A	SK3114A
	2SA1015-O(SAN)	405 001 7407	NTE290A	ECG290A	SK9132
	2SA1015-Y(SAN)	405 001 7605	NTE290A	ECG290A	SK9132
	2SA1015-GR(SAN)	406 000 6804	NTE290A	ECG290A	SK9132
	2SA564A-Q(CU)	405 004 3109	NTE290A	ECG290A	SK3932
	2SA564A-R(CU)	405 004 3208	NTE290A	ECG290A	SK3932
	2SA933-Q	405 006 1103	NTE290A	ECG290A	SK9132
	2SA933-R	405 006 1202	NTE290A	ECG290A	SK9132
	2SA933S-Q	405 006 1707	NTE290A	ECG290A	SK9132
	2SA933S-R	405 006 1806	NTE290A	ECG290A	SK9132
Q541, 42	2SC536KE	-	NTE85	ECG85	SK3245
	2SC536-E-NP	405 019 1909	NTE85	ECG85	SK3245
	2SC536-F-NP	405 019 2708	NTE85	ECG85	SK3245
	2SC536-G-NP	405 019 3804	NTE85	ECG85	SK3245
	2SC1740-Q	405 011 7305	NTE85	ECG85	SK3122
	2SC1740-R	405 011 7404	NTE85	ECG85	SK3122
	2SC1740-S	405 011 7503	NTE85	ECG85	SK3122
	2SC1740S-Q	405 011 8401	NTE85	ECG85	SK3122
	2SC1740S-R	405 011 8500	NTE85	ECG85	SK3122
	2SC1740S-S	405 011 8609	NTE85	ECG85	SK3122
	2SC1815-GR	405 012 2002	NTE85	ECG85	SK3124A
	2SC1815-O	405 012 2101	NTE85	ECG85	SK3124A
	2SC1815-Y	405 012 2309	NTE85	ECG85	SK3124A
	2SC945A-PA	405 020 7501	NTE85	ECG85	SK3124A
	2SC945A-QA	405 020 7709	NTE85	ECG85	SK3124A
	2SC945A-RA	405 020 7907	NTE85	ECG85	SK3124A
# For SAFETY use only equivalent replacement part					

SANYO


MODEL AVM-2005 (CHASSIS G4Z-20050)

PARTS LIST continued

CONTROLS & RESISTORS			
Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# PS001	7.8 Cold PTC	408 000 3203	-
	7.8 Cold PTC	408 003 6409	-
# R001	3.3 10% 6W Wirewound	402 057 8006	-
	3.3 10% 6W Wirewound	402 058 4403	-
# R002	1M 5% 1/2W	401 007 2903	HW510
# R004	10K 5% 1/4W	401 012 7009	QW310
# R005	220K 5% 1/4W	401 016 5803	QW422
# R006	47 5% 1/2W Nonflammable	401 010 2600	HW047
# R007	5.6 5% 2W	401 068 6209	2W5D6
# R008	120 5% 15W Wirewound	402 057 1304	-
# R021	820 10% 6W Wirewound	402 057 4107	-
	820 10% 6W Wirewound	402 057 4206	-
# R022	270 5% 2W	401 067 0000	2W127
# R401	8200 5% 2W	401 069 8202	2W282
# R409	15K 5% 2W	401 065 8503	2W315
R413	3300 1% 1/6W	401 053 2605	-
R471	68 5% 1/2W Nonflammable	401 011 1206	HW068
# R473	2.7 5% 2W	401 066 3705	2W2D7
R476	1 5% 1/2W Nonflammable	401 006 7701	HW1D0
R483	10 5% 1/4W Nonflammable	401 012 3506	QW010
R485	1690 1% 1/6W	401 224 5602	-
R486	10K 1% 1/6W	401 052 6802	-
# R490	2.2 5% 2W	401 066 3002	2W2D2
R501	8.2 5% 1/4W Nonflammable	401 022 9505	QW8D2
R555	6800 1% 1/6W	401 053 4708	-
R557	15K 1% 1/6W	401 052 9308	-
R628	1000 5% 2W Fusible	402 003 0108	F2W210
# R711, 12, 13	12K 5% 1W	401 058 9807	1W312
R1501	15K 1% 1/6W	401 052 9308	-
VR101	10K RF AGC	645 001 9319	-
	10K RF AGC	645 006 5095	-
VR301	20K Brightness Level	645 006 2421	-
	20K Brightness Level	645 006 5132	-
VR451	50K Vertical Size	645 001 9364	-
	50K Vertical Size	645 006 5217	-
VR701	10K Red Bias	610 020 9053	-
	10K Red Bias	610 020 9077	-
	10K Red Bias	610 020 9084	-
VR702	10K Green Bias	610 020 9053	-
	10K Green Bias	610 020 9077	-
	10K Green Bias	610 020 9084	-
VR703	10K Blue Bias	610 020 9053	-
	10K Blue Bias	610 020 9077	-
	10K Blue Bias	610 020 9084	-
VR704	200 Red Drive	610 020 8599	-
	200 Red Drive	610 020 8612	-
	200 Red Drive	610 020 8629	-
VR705	200 Blue Drive	610 020 8599	-
	200 Blue Drive	610 020 8612	-
	200 Blue Drive	610 020 8629	-
# For SAFETY use only equivalent replacement part.			

MISCELLANEOUS			
Item No.	Description	Mfr. Part No.	Notes
# A101 (1)	Tuner	645 007 0938	UHF/VHF
A101B	Antenna Block	645 002 7864	-
A1001	Receiver	645 007 1546	Remote
	Receiver	610 224 5806	Remote
# F001	Fuse	423 018 8101	4Amp, 125V, Fast Acting
	Fuse	423 007 1601	4Amp, 125V, Fast Acting
	Fuse	423 007 1809	4Amp, 125V, Fast Acting
K701	Socket	610 010 4181	CRT
# Q901	A51LES069X	414 008 5507	-
	A51LGA63X	413 007 6607	-
	A51ACG29X	413 007 6409	-
# RL001	Relay	610 009 5540	Power
	Relay	610 009 5649	Power
	Relay	610 215 6355	Power
	Relay	645 000 4155	Power
SP901	Speaker	645 004 3314	2" X 3 1/2", 8 Ohms, 1W
SW701	Switch	610 011 4227	Normal/Service
SW1001	Switch	645 000 1383	Menu (Preset)
	Switch	645 004 3062	Menu (Preset)
SW1002	Switch	645 000 1383	Channel Down
	Switch	645 004 3062	Channel Down
SW1003	Switch	645 000 1383	Channel Up
	Switch	645 004 3062	Channel Up
SW1004	Switch	645 000 1383	Volume Down
	Switch	645 004 3062	Volume Down
SW1005	Switch	645 000 1383	Volume Up
	Switch	645 004 3062	Volume Up
SW1006	Switch	645 000 1383	Power
	Switch	645 004 3062	Power
# W901	Line Cord	610 223 0918	AC, Polarized
# W902	Connector	610 231 0559	CRT Shield Ground
	Connector	610 231 0566	CRT Shield Ground
X101	Filter	422 000 9409	SAW
X102	Trap	610 015 3066	4.5MHz
	Trap	610 015 3059	4.5MHz
X153	Filter	610 015 2946	4.5MHz
X301	Crystal	610 204 4195	3.58MHz
	Crystal	610 245 9746	3.58MHz
	Crystal	610 012 0655	3.58MHz
X401	Crystal	610 012 2970	503.5kHz
X531	Crystal	645 002 8885	12MHz
	Fuse Clip	610 012 4356	For F001 (2 Used)
	Fuse Holder	645 006 4760	For F001 (2 Used)
	PC Board (1)	610 254 7450	CRT
	PC Board (1)	610 254 7467	Main
	PC Board (1)	610 254 0345	Remote Transmitter
	Transmitter	645 006 8515	Remote
	Wedges	610 117 0154	Yoke Positioning (3 Used)
	Wedges	610 117 7924	Yoke Positioning (3 Used)
# For SAFETY use only equivalent replacement part.			
(1) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.			

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	CM2000
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR57
Capacitance Analyzer	LC101, LC102
CRT Analyzer	CR70
AC Leakage Tester	PR57
Inductance Analyzer	LC101, LC102
Flyback Yoke Tester	TVA92
TV Stereo Power Monitor	SR68, PA81
Field Strength Meter	SL750
Transistor Tester	TF46
Video Analyzer	VG91, TVA92



Created with pride by the
employees of Howard W. Sams
& Company.

*J. Barker, N. Beck, B. Bryant,
B. Buchanan, T. Clensy,
D. Cobb, G. Farrell, B. Fink,
M. Herkless, J. Kocha,
F. Malek, B. Medaris,
R. Raus, B. Skinner*

SANYO
MODEL AVM-2005 (CHASSIS G4Z-20050)

PARTS LIST

SEMICONDUCTORS					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
# D002 Thru					
# D005	EM2B	407 005 7605	NTE125	ECG125	SK3081
	1S1887A	407 013 3200	NTE552	ECG552	SK9000
	GP15G	408 008 8606	NTE125	ECG125	SK3081
# D021	ERA15-02	407 005 8602	NTE552	ECG552	SK9000
	S5277B	407 011 3004	NTE552	ECG552	SK9000
	MPG06D	407 088 6502	NTE552	ECG552	SK9000
	1N4002ID	408 009 9404	NTE116	ECG116	SK3311
D022	DS442X	407 005 4505	NTE519	ECG519	SK3100
	1S1555	407 013 1206	NTE177	ECG177	SK9091
	1S2076	407 013 4207	NTE177	ECG177	SK9091
	1S2473	407 013 7109	NTE177	ECG177	SK9091
	1N4148	408 008 2406	NTE519	ECG519	SK3100
D023	RD5.1EB1	407 056 7906	NTE5010A	ECG5010A	SK5A1
	RD5.1EB2	407 056 8002	NTE5010A	ECG5010A	SK5A1
	UZ-5.1BCB	407 151 8402	-	-	-
	UZ-5.1BCC	407 163 8209	-	-	-
D303	DS442X	407 005 4505	NTE519	ECG519	SK3100
	1S1555	407 013 1206	NTE177	ECG177	SK9091
	1S2076	407 013 4207	NTE177	ECG177	SK9091
	1S2473	407 013 7109	NTE177	ECG177	SK9091
	1N4148	408 008 2406	NTE519	ECG519	SK3100
D306	1N4148	408 008 2406	NTE519	ECG519	SK3100
	1S1553	407 013 1008	NTE177	ECG177	SK9091
	1S2076A	407 013 4306	NTE519	ECG519	SK3100
	1S2471	407 013 6508	NTE519	ECG519	SK3100
D341	UZ-10BCB	407 151 1304	-	-	-
# D411, 12	HZ11B2L	407 158 1307	NTE5020A	ECG5020A	SK11A
D436	ERA18-04	407 124 6404	NTE552	ECG552	SK9000
	ES1	407 007 6606	NTE552	ECG552	SK9000
	RMPG06G	407 124 5506	NTE552	ECG552	SK9000
D451	ERA15-02	407 005 8602	NTE552	ECG552	SK9000
	S5277B	407 011 3004	NTE552	ECG552	SK9000
	MPG06D	407 088 6502	NTE552	ECG552	SK9000
	1N4002ID	408 009 9404	NTE116	ECG116	SK3311
D471	ES1	407 007 6606	NTE552	ECG552	SK9000
	ERA18-04	407 124 6404	NTE552	ECG552	SK9000
	RMPG06G	407 124 5506	NTE552	ECG552	SK9000
D474	EU2	407 007 7603	NTE552	ECG552	SK9000
D476	ES1	407 007 6606	NTE552	ECG552	SK9000
	RMPG06G	407 124 5506	NTE552	ECG552	SK9000
	ERA18-04	407 124 6404	NTE552	ECG552	SK9000
D478	ERA15-02	407 005 8602	NTE552	ECG552	SK9000
	S5277B	407 011 3004	NTE552	ECG552	SK9000
	MPG06D	407 088 6502	NTE552	ECG552	SK9000
	1N4002ID	408 009 9404	NTE116	ECG116	SK3311
D483	TVR1G	407 011 4407	NTE552	ECG552	SK9000
D501	RD5.1EB1	407 056 7906	NTE5010A	ECG5010A	SK5A1
	RD5.1EB2	407 056 8002	NTE5010A	ECG5010A	SK5A1
	UZ-5.1BCB	407 151 8402	-	-	-
	UZ-5.1BCC	407 163 8209	-	-	-
# For SAFETY use only equivalent replacement part					

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D535	RD5.1EB1	407 056 7906	NTE5010A	ECG5010A	SK5A1
	RD5.1EB2	407 056 8002	NTE5010A	ECG5010A	SK5A1
	UZ-5.1BCB	407 151 8402	-	-	-
	UZ-5.1BCC	407 163 8209	-	-	-
D555	DS442X	407 005 4505	NTE519	ECG519	SK3100
	1S1555	407 013 1206	NTE177	ECG177	SK9091
	1S2076	407 013 4207	NTE177	ECG177	SK9091
	1S2473	407 013 7109	NTE177	ECG177	SK9091
	1N4148	408 008 2406	NTE519	ECG519	SK3100
D621	DS442X	407 005 4505	NTE519	ECG519	SK3100
	1S1555	407 013 1206	NTE177	ECG177	SK9091
	1S2076	407 013 4207	NTE177	ECG177	SK9091
	1S2473	407 013 7109	NTE177	ECG177	SK9091
	1N4148	408 008 2406	NTE519	ECG519	SK3100
D1501	RD5.1EB1	407 056 7906	NTE5010A	ECG5010A	SK5A1
	RD5.1EB2	407 056 8002	NTE5010A	ECG5010A	SK5A1
	UZ-5.1BCB	407 151 8402	-	-	-
	UZ-5.1BCC	407 163 8209	-	-	-
# IC001	STR30135	409 047 8602	NTE1778	ECG1778	SK9871
IC101	LA7673	409 274 3302	-	-	-
# IC451	LA7837	409 173 2703	NTE7104	ECG7104	-
IC501	LC864024V-5789	-	-	-	-
	LC864020V-XXXX	410 214 7502	-	-	-
IC511	24LC01B/P	409 321 0902	-	-	-
	ST24C01B1	409 270 0008	-	-	-
	XLS24C01AP	409 321 7307	-	-	-
IC521	MN1381-Q	409 301 2803	-	-	-
IC1501	LA7945N	409 307 2401	-	-	-
Q021, 22	2SC536KE	-	NTE85	ECG85	SK3245
	2SC536-E-NP	405 019 1909	NTE85	ECG85	SK3245
	2SC536-F-NP	405 019 2708	NTE85	ECG85	SK3245
	2SC536-G-NP	405 019 3804	NTE85	ECG85	SK3245
	2SC1740-Q	405 011 7305	NTE85	ECG85	SK3122
	2SC1740-R	405 011 7404	NTE85	ECG85	SK3122
	2SC1740-S	405 011 7503	NTE85	ECG85	SK3122
	2SC1740S-Q	405 011 8401	NTE85	ECG85	SK3122
	2SC1740S-R	405 011 8500	NTE85	ECG85	SK3122
	2SC1740S-S	405 011 8609	NTE85	ECG85	SK3122
	2SC1815-GR	405 012 2002	NTE85	ECG85	SK3124A
	2SC1815-O	405 012 2101	NTE85	ECG85	SK3124A
	2SC1815-Y	405 012 2309	NTE85	ECG85	SK3124A
	2SC945A-PA	405 020 7501	NTE85	ECG85	SK3124A
	2SC945A-QA	405 020 7709	NTE85	ECG85	SK3124A
	2SC945A-RA	405 020 7907	NTE85	ECG85	SK3124A
# For SAFETY use only equivalent replacement part					

PARTS LIST continued

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
Q621	2SC1473Q	-	NTE399	ECG399	SK9352
	2SC1473NC-Q	405 010 6606	NTE399	ECG399	SK9352
	2SC1473NC-R	405 010 6705	NTE399	ECG399	SK9352
Q622	2SA1208S	-	-	-	SK3867A
	2SA1208-S	405 002 8908	-	-	-
	2SA1208-T	405 002 9004	-	-	-
Q623	2SC3902S	-	NTE373	ECG373	SK9041
	2SC3902S-CTV-YA	405 114 7103	NTE373	-	SK373
	2SC3902T-CTV-YA	405 114 7301	NTE373	ECG373	SK9041
Q701, 03, 05	2SC3621-O(LB-SAN-2)	406 000 2905	NTE373	ECG373	SK9041
	2SC3621-R(LB-SAN-2)	406 000 3100	NTE373	ECG373	SK9041
	2SC2621E	-	NTE157	ECG157	SK3747
	2SC2621-D-RA	405 041 6507	NTE157	ECG157	SK3747
	2SC2621-E-RA	405 041 6705	NTE157	ECG157	SK3747
	2SC2621-C-RA	405 066 4304	NTE157	ECG157	SK3747
	2SC2688(1)-K	405 066 9903	NTE157	ECG157	SK3747
	2SC2688(1)-L	405 067 0008	NTE157	ECG157	SK3747
	2SC2688(1)-M	405 067 0107	NTE157	ECG157	SK3747
	2SC3620(LB-SAN-1)	406 000 3605	NTE157	ECG157	SK3747

CAPACITORS & ELECTROLYTICS		
Item No.	Rating	Mfr. Part No.
# C001	.1 20% 125VAC	404 047 3503
	.1 20% 275VAC	404 066 1603
# C002 Thru		
# C005	.001 10% 500V	403 075 7111
# C006	470µF 20% 200V	404 049 4805
# C007	4.7µF 20% 160V	403 103 0005
# C021	.001 10% 500V	403 075 7111
C108	56pF 5% 50V N220	403 028 2019
# C407	470pF 10% 500V	403 076 3617
# C409	220pF 10% 500V	403 076 0210
# C428	.0039 10% 500V	403 076 3112
# C432	.0063 3% 1.5kV	404 063 7202
# C433	680pF 10% 3kV	403 165 6710
	680pF 10% 3kV	403 185 9408
# C434	.0047 10% 500V	403 076 4010
# C437	.39 5% 200V	403 083 0309
# C471	470pF 10% 500V	403 076 3617
# C472	10µF 20% 250V	403 055 7206
# C478, 79	470pF 10% 500V	403 076 3617
# C708	.001 +100% -0% 2kV	403 077 2718
	.001 +100% -0% 2kV	403 175 3419
C1509	100pF 5% 50V NPO	403 009 3011
# For SAFETY use only equivalent replacement part.		

COILS & TRANSFORMERS		
Item No.	Function/Rating	Mfr. Part No.
L104	12µH	645 008 2733
L301	10µH	610 031 3873
L305	LC Block	610 237 9952
L401	Filter	610 032 5852
	Filter	610 032 5869
L403, 04	Ferrite Bead	610 031 9998
L463	Filter	610 032 4381
	Filter	610 032 4404
	Filter	645 008 5642
L531	5.6µH	645 008 2894
L532	6.8µH	610 008 0289
L533, 38, 55	5.6µH	645 008 2894
L571	100µH	645 003 9676
# L901	Degaussing	610 239 8090
	Degaussing	610 239 8106
# L902	Yoke	645 000 2946
	Horiz 3.16mH	
	Vert 29.5mH	
# LF001	Line Filter	610 031 5938
	Line Filter	610 223 1212
	Line Filter	610 031 6089
	Line Filter	610 031 6096
	Line Filter	610 031 6119
	Line Filter	610 031 6126
T101	VCO	645 000 5206
T102	AFC	610 037 6564
T103	Video IF	610 205 6822
T151	Audio Detector	610 037 7615
T401	Horizontal Driver	610 000 7901
	Horizontal Driver	610 000 7918
# T402 (1)	Horizontal Output	645 004 1501
	Horizontal Output	645 004 7459
T621	Sound Output	610 055 6751
	Sound Output	610 055 6904
	Sound Output	610 216 2899
	Sound Output	610 238 5731
# For SAFETY use only equivalent replacement part.		
(1) Focus and screen controls are part of T402.		

CABINET PARTS	
Item	Mfr. Part No.
Badge	610 232 9267
Button Unit	610 245 3522
Cabinet Front	610 254 6125
Cabinet Rear	610 251 3004
Cabinet Rear	610 251 6715
TRANSMITTER	
Battery Cover	610 254 0550

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)

- PTS Electronics Corporation (PTS)
- Sencore, Inc.
- Thomson Consumer Electronics, Inc. (SK, TCE)