

SAFETY PRECAUTIONS

SERVICE WARNING

Only qualified service technicians who are familiar with safety checks and guidelines should perform service work. Before replacing parts, disconnect power source to protect electrostatically sensitive parts. Do not attempt to modify any circuit unless so recommended by the manufacturer. When servicing the receiver, use an isolation transformer between the line cord and power receptacle.

SERVICING THE HIGH VOLTAGE AND CRT

Use EXTREME CAUTION when servicing the high voltage circuits. To discharge static high voltage, connect a 10K ohms resistor in series with a test lead between the receiver ground and CRT anode lead. DO NOT lift the CRT by the neck. Always wear shatterproof goggles when handling the CRT to protect eyes in case of implosion.

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

Be aware of the instructions and procedures covering X-ray radiation. In solid-state receivers and monitors, the CRT is the only potential source of X-rays. Keep an accurate high voltage meter available at all times. Check meter calibration periodically. Whenever servicing a receiver, check the high voltage at various brightness levels to be sure it is regulating properly. Keep high voltage at rated value, NO HIGHER. Excessive high voltage may cause X-ray radiation or failure of associated components. DO NOT depend on protection circuits to keep voltage at rated value. When troubleshooting a receiver with excessive high voltage, avoid close contact with the CRT. DO NOT operate the receiver longer than necessary. To locate the cause of excessive high voltage, use a variable AC transformer to regulate voltage. In present receivers, many electrical and mechanical components have safety related characteristics which are not detectable by visual inspection. Such components are identified by a # on both the schematic and the parts list. For SAFETY, use only equivalent replacement parts when replacing these components.

GENERAL GUIDELINES

Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields, covers, grounds, and mounting hardware have been replaced. Be sure to replace all insulators and restore proper lead dress.

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC, turn receiver on, and set all customer controls for normal operation. Measure the voltage at TP7. Voltage should be between 16.5V and 21.0V. If the voltage exceeds this range, the shutdown circuit should be repaired. Momentarily connect a jumper between TP7 and the cathode of D421. The receiver should lose raster and sound. If the receiver does not lose raster and sound the shutdown circuit should be repaired. To resume normal operation, remove AC power for 30 seconds and then restore AC power.

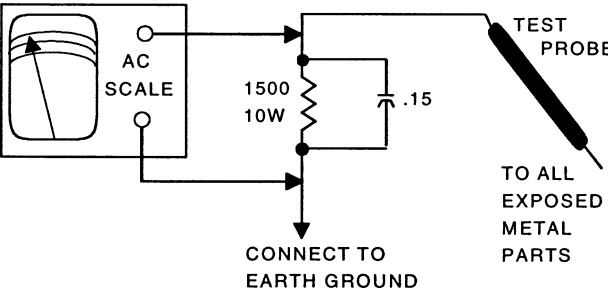
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



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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SET 4616

MODEL AVM-3259G (CHASSIS G5R-3259G4)

SANYO

PHOTOFACT[®] Technical Service Data
SILVER

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SANYO
Model AVM-3259G (Chassis G5R-3259G4)



Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
AVM-3259G	G5R-3259G2
AVM-3259S	G5R-3259S1



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For Supplier Address,
See PHOTOFACT Annual Index

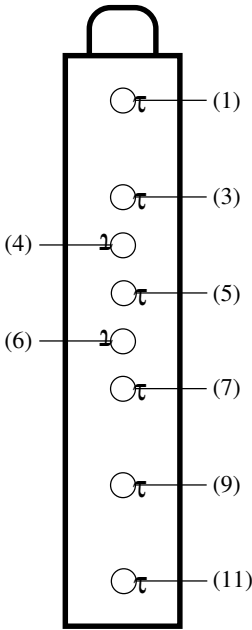
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.3V	2.3V	1.9V
(3) ENA	.7V	.7V	.7V
(4) CL	4.0V	4.0V	4.0V
(5) DT	4.0V	4.0V	4.0V
(6) MB	5.0V	5.0V	5.0V
(7) PB	5.0V	5.0V	5.0V
(9) TB	33.3V	33.3V	33.3V
(11) 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

TUNER TERMINAL GUIDE



SCHEMATIC COMPONENT LOCATION GUIDE

A1901	A17	C486	E26	C3432	D42	K1001	D33	R136	A5	R483	E26	R833	C18	T402	D7
C001	A45	C487	E28	C3433	E42	K1002	B41	R137	A6	R485	D12	R835	B19	T402	E25
C002	B45	C489	D31	C3434	E42	K1002	C33	R142	C2	R486	D30	R842	B22	T601	A29
C003	A45	C493	D9	C3435	B43	K1011	C44	R143	B1	R487	E30	R843	C22	VR461	D4
C004	B45	C497	E32	C3436	E43	K1021	B44	R151	B3	R489	D30	R844	B22	W601	A25
C005	B47	C502	D5	C3437	C43	L164	B4	R159	A3	R491	D9	R846	B21	X141	B1
C007	B47	C503	D4	C3439	D43	L166	C4	R161	B2	R492	D11	R847	B21	X153	A3
C010	B47	C504	D4	C3442	B42	L305	B34	R162	B2	R493	D9	R848	C21	X161	B4
C011	A47	C505	D1	C3444	B42	L306	B7	R163	B3	R494	D9	R849	B21	X251	B10
C015	B31	C506	D3	C3446	C41	L309	B34	R164	B4	R497	A16	R851	E21	X401	D2
C016	D44	C509	D1	C3448	B41	L310	C33	R167	B1	R498	D31	R852	B19	X801	B19
C017	D44	C511	D6	D101	B23	L312	D31	R168	B1	R503	D3	R853	C18		
C101	B24	C516	D5	D102	B23	L332	A34	R169	B3	R504	D4	R854	C19		
C103	B24	C601	A25	D311	C31	L341	C35	R202	B6	R505	D4	R856	D22		
C106	C1	C608	B29	D312	B18	L401	E4	R206	B6	R506	D4	R857	C22		
C108	C22	C609	A28	D351	E1	L402	E5	R207	B6	R507	D3	R859	C34		
C109	D22	C612	C27	D406	E6	L403	E5	R212	B12	R508	D4	R862	C19		
C131	B5	C613	C27	D407	E6	L413	D6	R216	C35	R509	D4	R864	C19		
C133	B4	C620	B27	D421	D3	L414	E5	R217	C34	R511	D6	R872	D35		
C139	B5	C622	B30	D422	D3	L416	E6	R221	C7	R513	D7	R873	D35		
C141	C2	C625	A30	D428	E2	L601	C28	R222	C7	R517	D5	R881	D21		
C142	C3	C626	B30	D429	E2	L621	B30	R223	C7	R518	D4	R882	C22		
C143	C2	C628	A32	D463	E26	L623	B30	R224	C7	R601	A26	R883	E21		
C147	E31	C629	B32	D481	E27	L625	A29	R225	C8	R602	B26	R884	E21		
C151	B3	C630	B31	D482	E2	L628	A30	R251	C12	R603	A28	R886	E21		
C161	B2	C632	B27	D483	E26	L801	E31	R252	C12	R604	B28	R1001	D34		
C166	C4	C634	D28	D486	E30	L813	A12	R271	B11	R606	B29	R1002	D33		
C202	B9	C683	C30	D487	D11	L814	A13	R272	D12	R613	C28	R1006	E34		
C208	B12	C688	B25	D489	B19	L821	D20	R273	D12	R614	C27	R1007	D35		
C211	A10	C689	B25	D493	E31	L851	E21	R276	D12	R615	B28	R1011	D34		
C212	B12	C693	D28	D501	D5	L881	D21	R281	E1	R616	C26	R1012	D34		
C221	D31	C701	B15	D503	E28	L882	C22	R287	A13	R617	C27	R1013	D34		
C252	C12	C711	C15	D601	A27	L901	B26	R288	B13	R618	C28	R1021	C34		
C253	C12	C721	B15	D602	A27	L902	D6	R289	B14	R619	C26	R1027	C36		
C256	E31	C741	D15	D603	A27	L1901	E31	R301	C10	R620	B26	R1032	E36		
C257	E31	C742	D16	D604	A27	LF601	A25	R302	C10	R621	B30	R1033	E36		
C258	E32	C801	E31	D609	C27	PS601	A26	R303	C10	R622	C27	R1046	B36		
C272	D12	C806	E32	D610	B27	R304	C46	R304	B7	R627	B31	R1047	B36		
C300	E32	C808	B20	D611	C26	Q101	B23	R305	B6	R628	C31	R1048	D36		
C303	D32	C809	B20	D612	B26	Q135	A5	R306	B7	R629	C30	R1049	D36		
C304	D32	C811	A20	D612	C26	Q202	B6	R307	B7	R630	B31	R1071	A8		
C306	B7	C822	D20	D612	C26	Q216	C34	R308	B8	R631	D27	R1081	C39		
C307	B7	C829	C19	D614	C27	Q222	C7	R309	B8	R632	D27	R1082	B37		
C308	B7	C831	E18	D621	B30	Q225	C7	R310	B31	R634	D27	R1901	B18		
C309	B34	C832	E19	D624	B29	Q301	C10	R311	C31	R683	C30	R1902	B18		
C310	B34	C835	B19	D625	A30	Q306	B7	R312	C33	R687	B25	R1903	B17		
C312	B8	C841	B12	D627	D28	Q307	B8	R332	A34	R688	B25	R1904	B17		
C313	B33	C842	B11	D629	B30	Q332	A35	R333	A34	R691	B30	R1905	B17		
C314	B33	C843	B11	D680	C31	Q341	B34	R334	A35	R692	C28	R1906	B17		
C315	A33	C853	C18	D683	B25	Q342	B36	R341	B34	R693	D28	R1907	B17		
C316	B33	C854	C19	D687	B25	Q343	C35	R342	C35	R694	C27	R1909	A19		
C317	B33	C856	E21	D693	D28	Q371	D17	R343	B35	R695	C27	R1910	B19		
C318	C33	C857	E21	D694	D28	Q372	D18	R347	B35	R701	C15	R3401	B43		
C322	B33	C858	E20	D801	B19	Q401	E3	R348	C35	R702	B14	R3402	B43		
C323	B33	C862	C20	D831	A19	Q402	E5	R349	B36	R703	B14	R3406	E43		
C331	C32	C884	E21	D834	C18	Q461	E4	R351	C1	R704	B14	R3407	E43		
C332	C32	C1000	B35	D836	C18	Q462	E5	R352	C1	R706	B15	R3411	E42		
C336	A34	C1001	D34	D843	C19	Q486	D30	R353	E1	R707	B15	R3421	C43		
C338	C32	C1002	D34	D1001	D34	Q601	C28	R371	E18	R711	C15	R3422	C43		
C341	B34	C1004	D31	D1002	D34	Q604	C27	R372	E18	R712	C14	R3426	C43		
C342	B35	C1005	D31	D1006	E33	Q605	B26	R373	D2	R713	C14	R3432	B43		
C343	C35	C1006	E34	D1008	B39	Q627	B31	R376	D19	R714	C14	R3433	C43		
C344	B35	C1011	D34	D1009	B40	Q635	D27	R377	E18	R716	C15	R3434	B44		
C351	C1	C1021	C34	D1011	E33	Q681	C31	R400	C13	R717	C15	R3435	B43		
C352	D1	C1081	D32	D1021	C34	Q688	B25	R401	C13	R721	B15	R3436	C44		
C371	D2	C1082	D32	D1901	E32	Q693	C28	R403	B13	R722	A14	R3437	C43		
C401	B13	C1902	E32	F601	A25	Q695	C27	R404	E3	R723	B14	R3441	B42		
C403	C13	C1910	A18	IC001	A46	Q701	B15	R406	E3	R724	A14	R3442	B41		
C405	B13	C3401	C42	IC101	A4	Q711	C15	R407	E3	R726	A15	R3443	B42		
C406	E3	C3404	C42	IC101	B10	Q721	A15	R413	D7	R727	A15	R3444	B41		
C407	E3	C3406	E43	IC101	B2	Q831	A19	R418	D6	R803	B12	R3445	C41		
C408	E3	C3407	E43	IC101	B5	Q881	E19	R421	E2	R804	B13	R3446	C41		
C411	E5	C3408	C42	IC101	D2	Q882	E19	R422	E3	R806	D21	R3447	C41		
C412	E6	C3411	A42	IC301	A33	Q900	B16	R423	D2	R807	D19	R3448	B41		
C413	E5	C3412	C42	IC501	D5	Q1071	A8	R426	D3	R808	D19	RL601	A26		
C414	E6	C3413	D42	IC601	D26	R001	A44	R428	E2	R809	C21	RL601	B26		
C416	D6	C3414	D32	IC681	E30	R002	B44	R460	D4	R810	B20	SP901	B48		
C417	D6	C3416	B42	IC801	B20	R003	A45	R461	D5	R813	A19	SP902	A48		
C419	E7	C3417	D42	IC802	D18	R004	B45	R467	E26	R814	A19	SW1901	B17		
C421	D2	C3418	A42	IC1001	C35	R008	B46	R468	E26	R816	A18	SW1902	B17		
C426	D2	C3421	C43	IC1001	D35	R011	C46	R471	E4	R821	E20	SW1903	B17		
C461	D5	C3422	C43	IC1001	D36	R012	C46	R473	D4	R822	E19	SW1904	B17		
C462	D4	C3423	D42	IC1081	A38	R101	B23	R474	E4	R823	E18	SW1905	B17		
C466	E27	C3424	E42	IC1081	B37	R104	B23	R475	E4	R826	E20	SW1906	C17		
C470	E4	C3426	D42	IC1081	B39	R105	B24	R480	E26	R827	E19	T131	B4		
C482	E27	C3427	C43	IC3401	A42	R106	B23	R481	E27	R828	E19	T151	B2		
C484	E2	C3431	D42	K1001	B41	R133	B4	R482	E2	R831	C19	T401	E3		

MISCELLANEOUS ADJUSTMENTS

HIGH VOLTAGE CHECK

Tune in a picture. Set customer controls to minimum. Connect a high voltage probe to CRT anode. High voltage should measure 30kV to 32kV.

CONVERGENCE / PURITY

The deflection yoke is bonded to the CRT. Convergence and purity adjustments are not required.

ENTERING SERVICE MODE

Disconnect the AC power cord. While pressing the menu button on the front of the set, connect the AC power cord. Use the channel up and down buttons to select the service number. Use volume up and down buttons to change the value. To exit service mode, press the menu button.

HORIZONTAL POSITION

Tune in a crosshatch pattern. Enter the service mode and select service number 01. Adjust for the best horizontal centering.

RF AGC DELAY

Tune in a picture. Enter the service mode and select service number 03. Adjust where no snow (noise) appears in picture.

VERTICAL SIZE

Tune in a crosshatch pattern. Enter the service mode and select service number 07. Adjust for proper vertical size and best vertical linearity.

VERTICAL CENTERING

Tune in a crosshatch pattern. Check that the pattern is centered. If too low, replace resistor R513 (1000 ohms 1/2W) with a 470 ohms 1W resistor. If too high remove resistor R513.

GRAY SCALE

Tune in an active channel. Enter the service mode. Set the value of service numbers 08, 09, and 10 to 0. Set the value of service numbers 11 and 12 to 55. Set screen control, color, brightness, and picture to minimum. Adjust screen control, if necessary, to obtain a barely visible horizontal line. Select service number 41. Adjust the bias levels for a white line. Select service number 40 and adjust the drive values for normal black and white picture at all brightness levels.

SUB BRIGHTNESS

Tune in a color bar pattern. Set picture and brightness to normal. Connect positive lead of a digital voltmeter to TP51 and the negative lead to TP50. Enter the service mode and select service number 25. Adjust for 520mV ±10mV.

SUB COLOR, SUB TINT, SUB SHARPNESS

Tune in a picture. Enter the service mode. Select service number 26. Adjust for normal color level. Select service number 27. Adjust for normal flesh tones. Select service number 28. Adjust for contrast range.

OSD HORIZONTAL POSITION

Tune in a local channel. Enter the service mode and select service number 31. Adjust for centered on screen menu.

STEREO ADJUSTMENTS

All adjustments were made using an MTS/TV-stereo generator connected to the antenna terminal. Set customer controls for normal listening levels.

Input Level

Set generator to 1kHz audio frequency and L-R modulating signal. Connect an oscilloscope to pin 7 of IC3401. Enter service mode and select service number 32. Adjust for 0.7Vp-p waveform.

Stereo VCO

Connect a jumper between the base of Q135 and ground. Connect a frequency counter to pin 40 of IC3401 and ground. Enter the service mode and select service number 33. Adjust for 15.734kHz ±100Hz.

SAP VCO

Connect a jumper between the base of Q135 and ground. Connect a 1M ohm resistor between pin 12 of IC3401 and ground. Connect a frequency counter to pin 40 of IC3401. Enter the service mode and select service number 37. Adjust for 78.67kHz ±500Hz.

Filter

Enter the service mode and select service number 34. Set the value to 32.

Separation

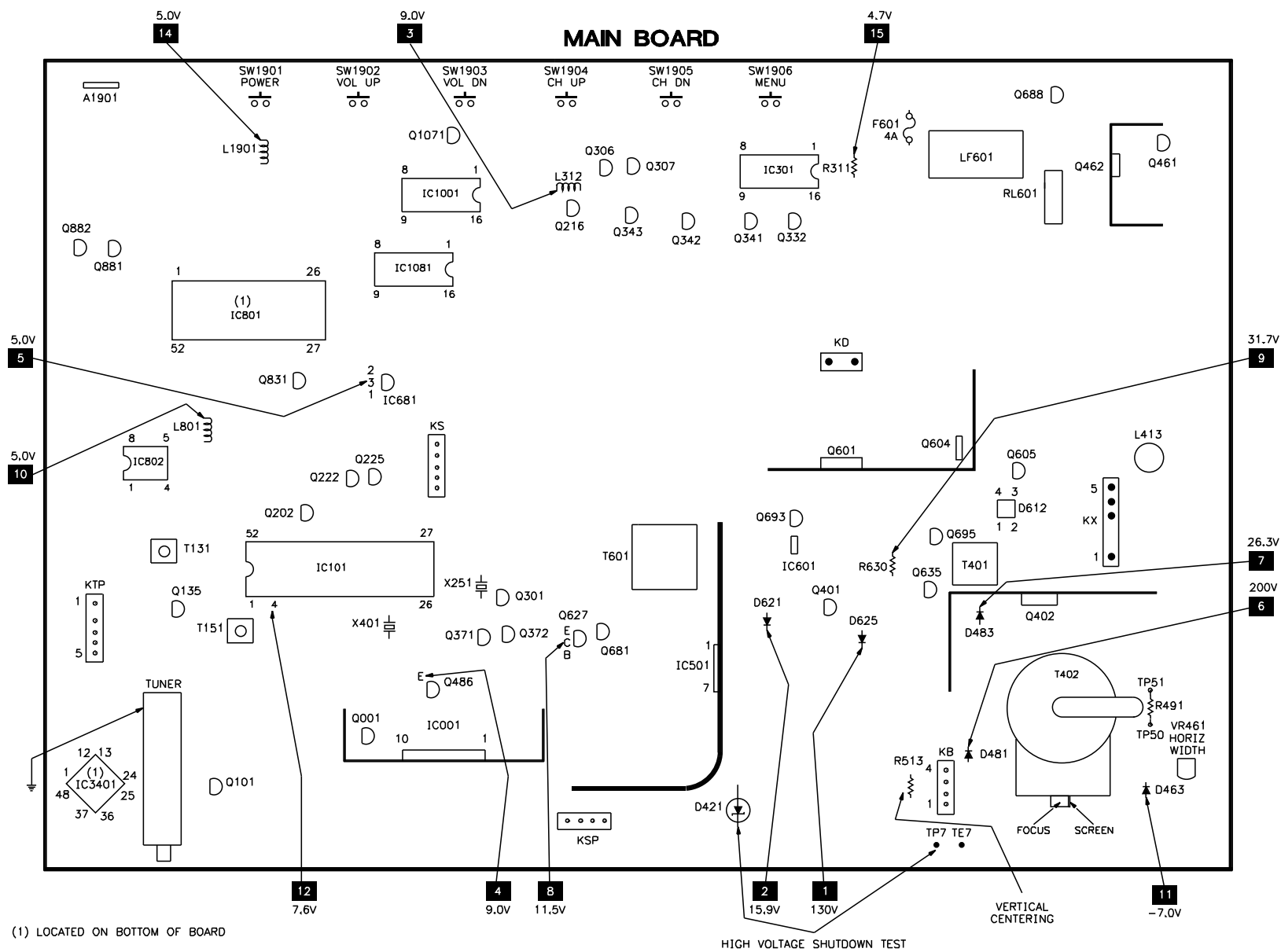
Set generator to pilot, 300Hz audio frequency, and left modulating signal. Connect an oscilloscope to pin 25 of IC3401 and ground. Enter the service mode and select service number 35. Adjust for minimum amplitude of the waveform. Set generator to 8kHz audio frequency. Select service number 36 and adjust for minimum amplitude of the waveform.

IC802 REPLACEMENT

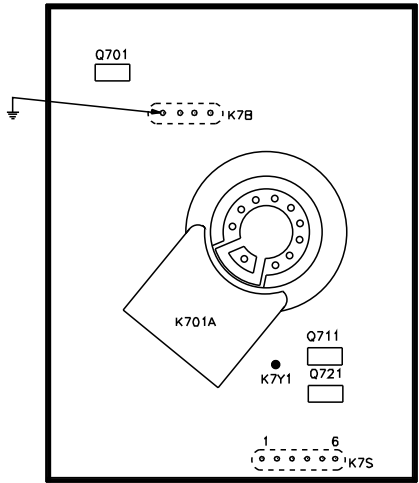
Perform the following adjustments after replacing IC802. Enter the service mode, select service number 01, and set value to 20. Select service number 14, and set value to 1. Select service number 24 and set value to 0. Select service number 26 and set value to 8. Select service number 27 and set value to 19. Select service number 29 and set value to 52. Select service number 30 and set value to 46. Select service number 31 and set value to 47. Exit service mode.

Service No.	Adjustment	Value Range	Initial Value	On-Set Value	Notes
01	HP	0 - 31	20	17	H-Position (H-Centering)
02	IAS	0, 1	0	0	IF AGC Switch, 0 = TV (Normal), 1 = AV (IF Gain Minimum)
03	RAD	0 - 63	25	38	RF AGC Delay
04	PT	0 - 127	64	62	PLL Tuning
05	ADA	0 - 63	31	30	APC Detect
06	CD	0, 1	0	0	C-Diff
07	VS	0 - 63	32	27	Vertical Size
08	RB	0 - 127	0	40	Red Bias
09	GB	0 - 127	0	28	Green Bias
10	BB	0 - 127	0	0	Blue Bias
11	RD	0 - 127	60	71	Red Drive
12	BD	0 - 127	60	58	Blue Drive
13	TDS	0, 1	0	0	Trap & D (B.P.F.) Switch, 0 = Off, 1 = On
14	AF	0, 1	1	1	Auto Flesh, 0 = Off, 1 = On
15	BS	0, 1	0	0	Black Stretch, 0 = On, 1 = Off
16	VL	0 - 7	4	4	Video Level
17	FL	0 - 31	15	15	FM Level
18	NIS	0, 1	1	1	Black Noise Inverter, 0 = On, 1 = Off
19	ABL	0, 1	1	1	ABL Defeat, 0 = On, 1 = Off
20	WP	0, 1	1	1	White Peak, 0 = On, 1 = Off
21	GD	0 - 15	7	7	Green Drive Reduction
22	VC	0 - 7	0	0	Vert. Comp
23	VD	0 - 63	32	32	Vert. DC
24	AG	0 - 3	0	0	AFC Gain 00 = Auto, 01 = High gain, 10 = Low gain, 11 = None-Gate
25	SB	0 - 63	32	27	Sub Brightness
26	SCO	0 - 31	8	9	Sub Color
27	STI	0 - 31	19	19	Sub Tint
28	SSH	0 - 15	8	8	Sub Sharpness
29	OPT	0 - 255	52	52	Option, data 1 should be to “52”, in binary 8 bit 00110100
30	OP2	0 - 255	46	46	Option, data 2 should be to “46”, in binary 8 bit 00101110
31	HR	0 - 63	47	47	OSD H-Position
32	INP	0 - 63	32	19	Input Level
33	STE	0 - 63	32	24	Stereo VCO
34	FIL	0 - 63	63	27	Filter
35	LSP	0 - 63	32	11	Low Separation
36	HSP	0 - 63	32	19	High Separation
37	SPV	0 - 63	32	28	SAP VCO
38	PCO	0 - 63	32	32	PIP Color
39	PTI	0 - 63	32	32	PIP Tint
40	DRV	0 - 127	60	71	Red Drive, press 1 to decrease value and 3 to increase value
	DRV	0 - 127	60	58	Blue Drive, press 7 to decrease value and 9 to increase value
41	-	0 - 127	0	-	Red Bias, press 1 to decrease value and 3 to increase value
	-	0 - 127	0	-	Green Bias, press 4 to decrease value and 6 to increase value
	-	0 - 127	0	-	Blue Bias, press 7 to decrease value and 9 to increase value

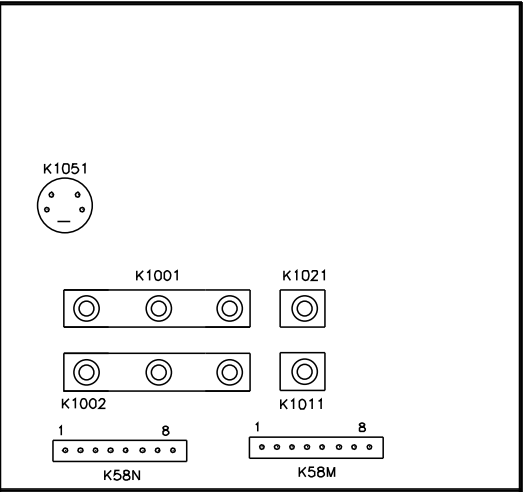
PLACEMENT CHART



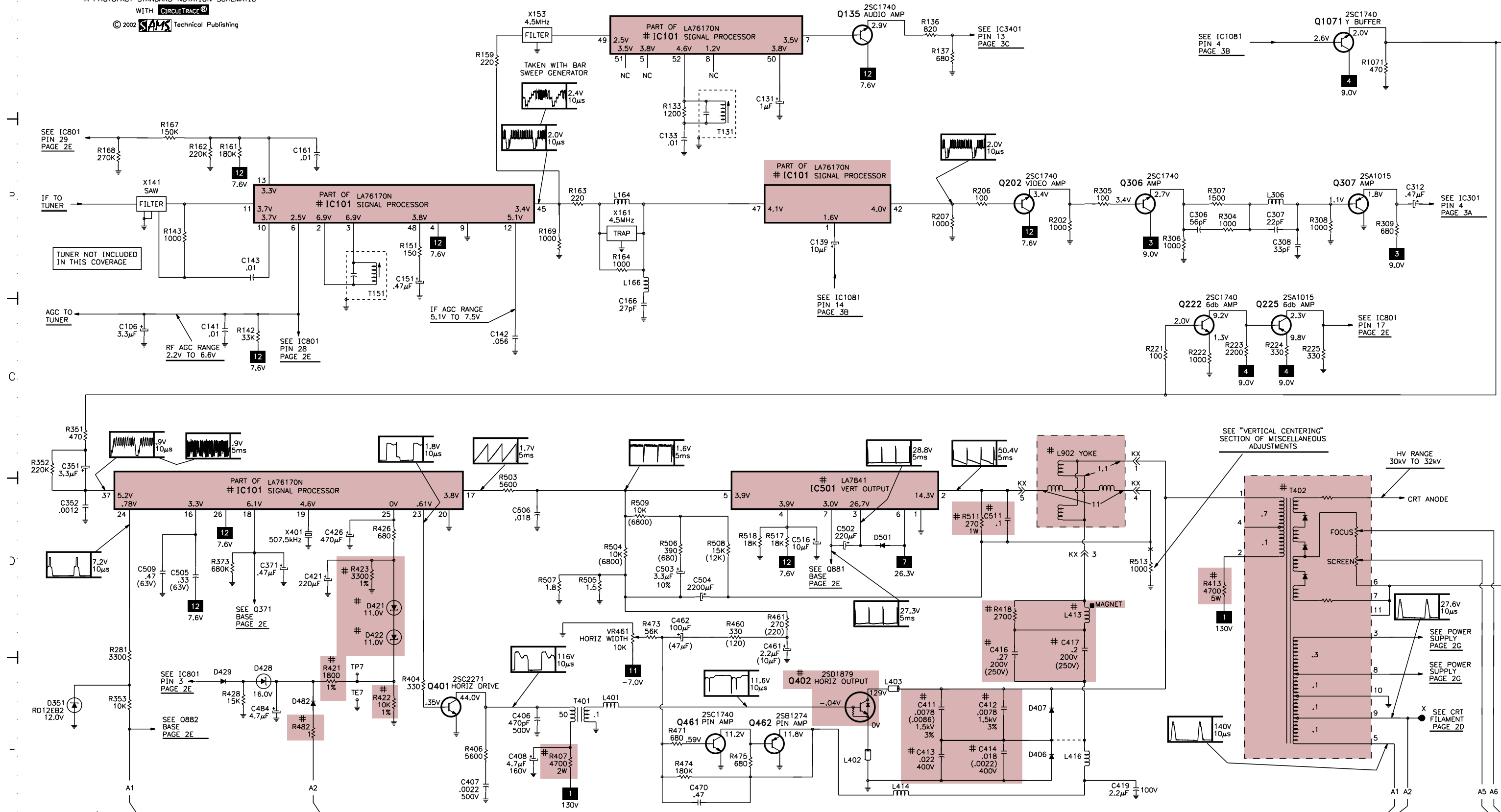
CRT BOARD

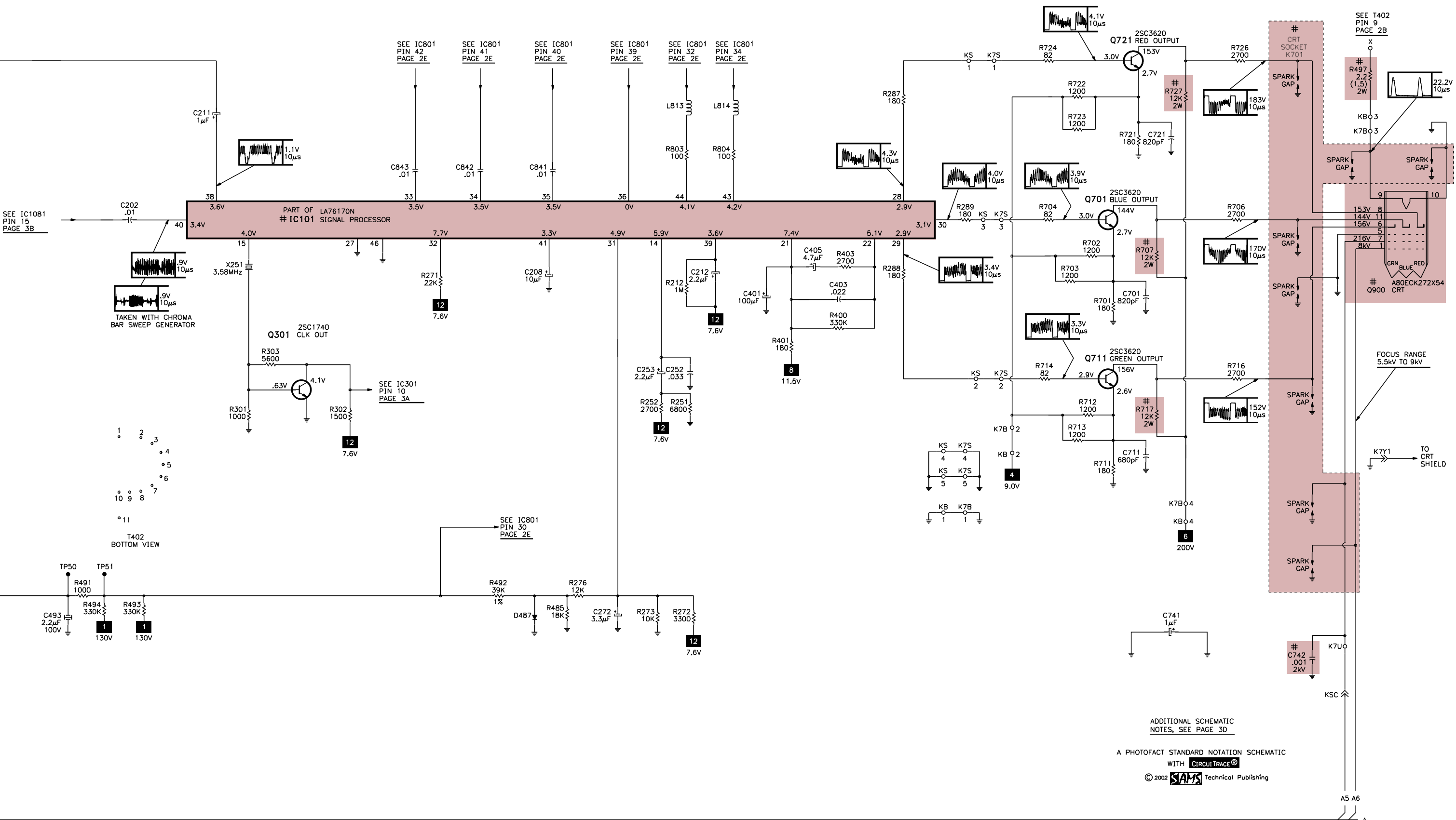


A/V BOARD



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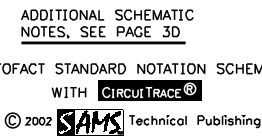


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3D
A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH **CircuitTrace®**
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F



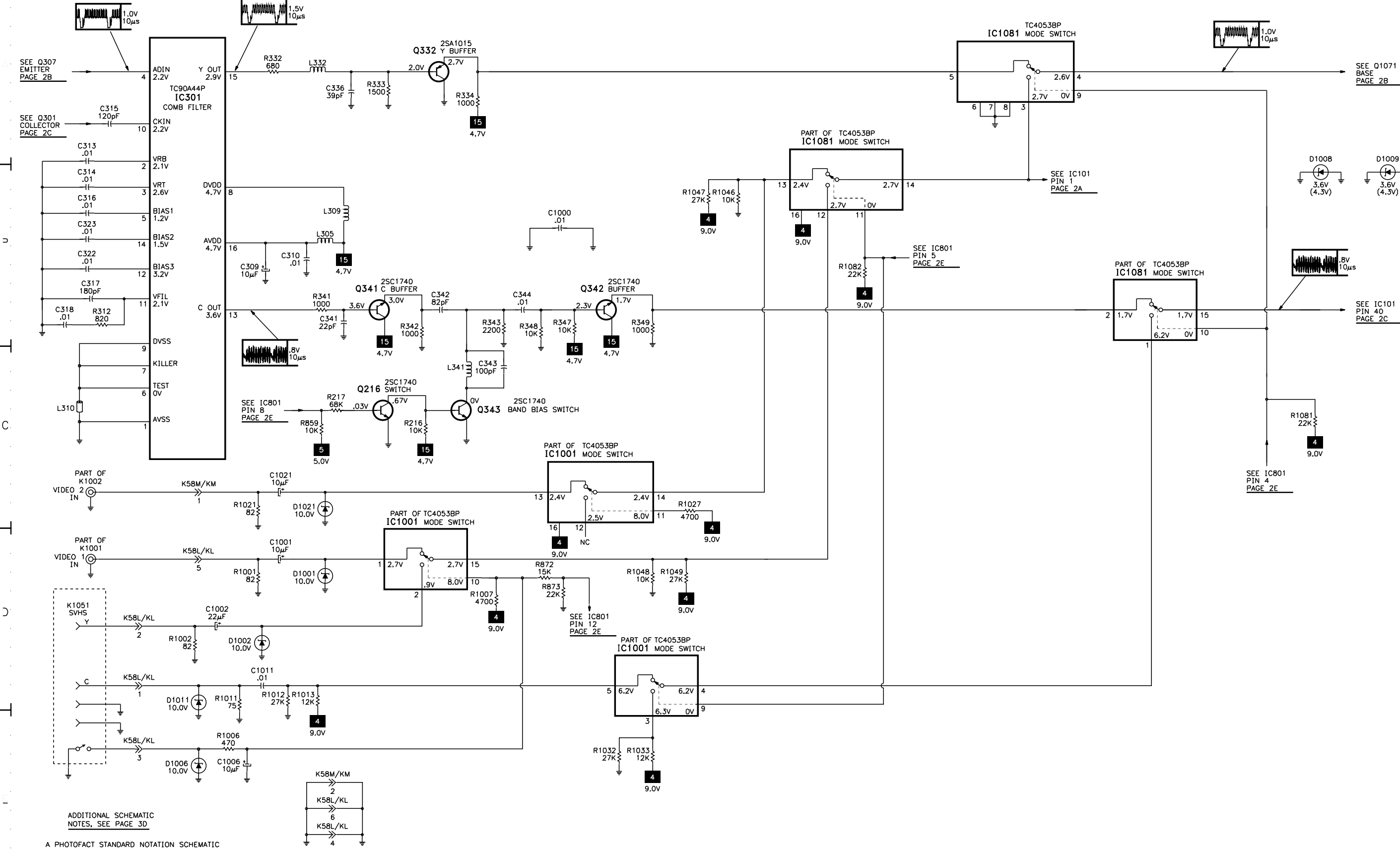
H



A

B

COMB FILTER - VIDEO SWITCHING SCHEMATIC

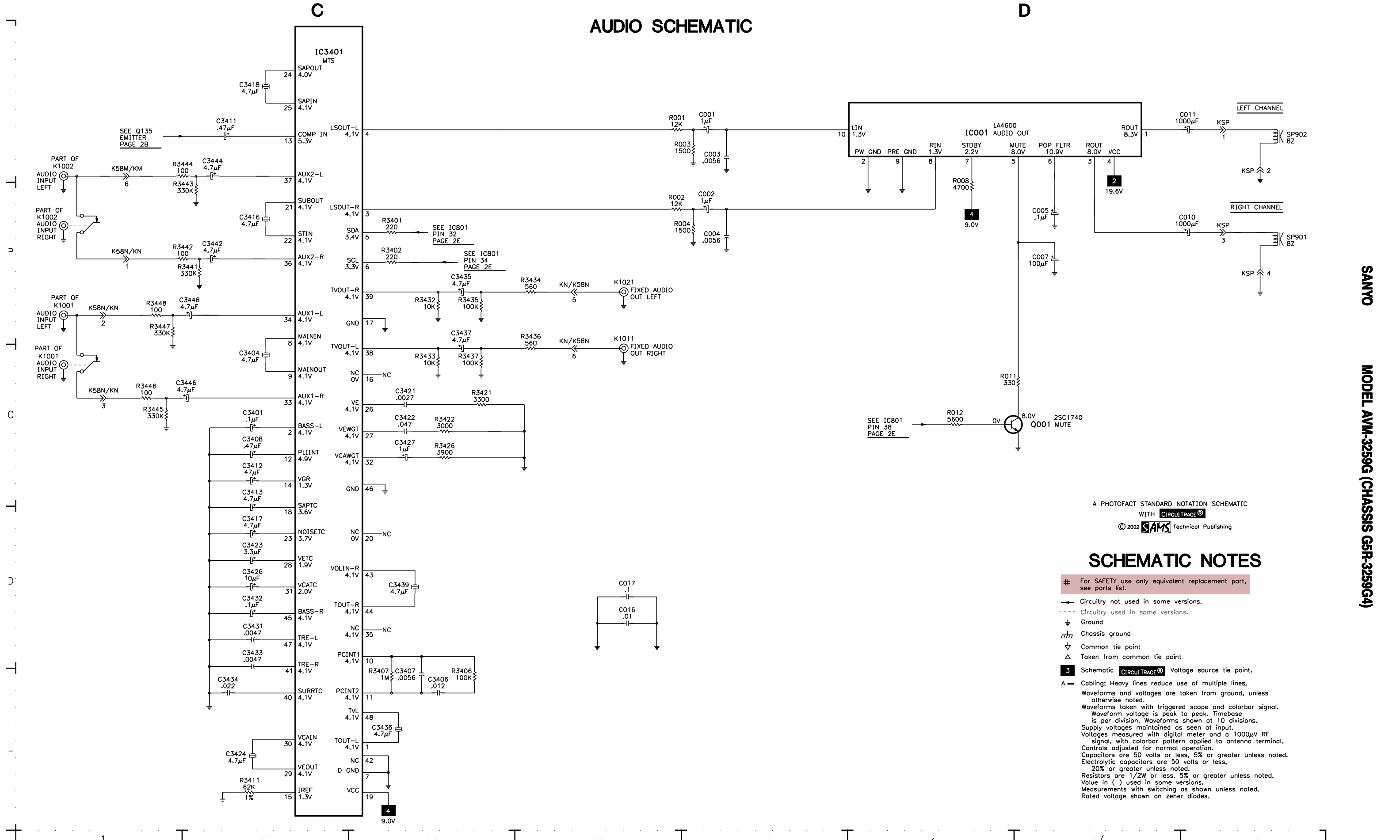


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3D

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AUDIO SCHEMATIC



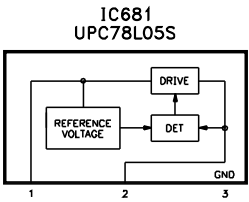
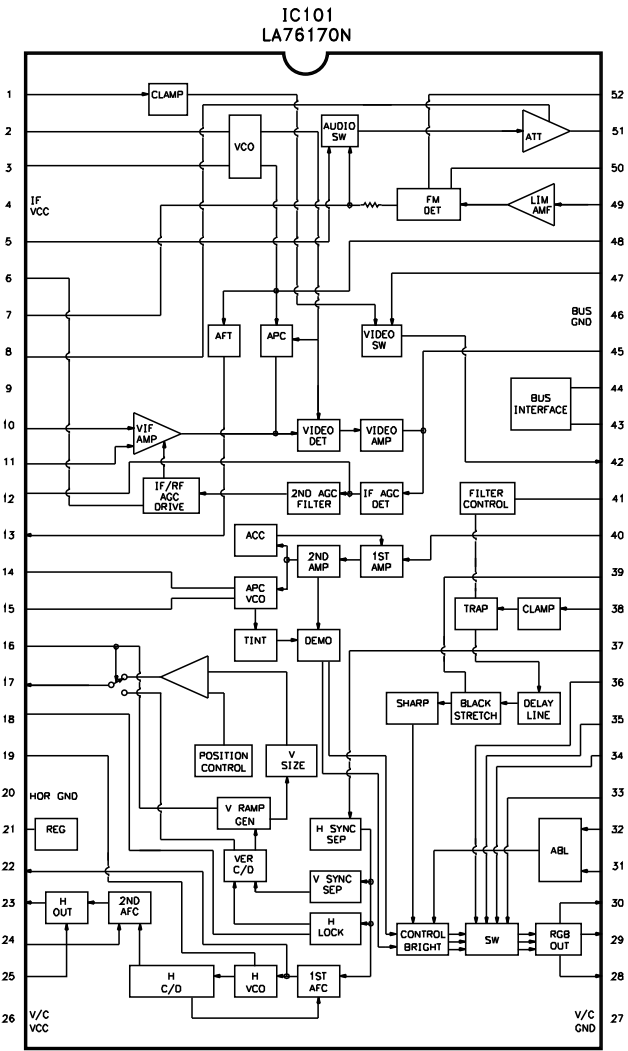
A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE®
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SCHEMATIC NOTES

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

SANYO
MODEL AVM-3259G (CHASSIS G5R-3259G4)

IC FUNCTIONS



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

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes
D101	MTZJ36A	407 100 0204	-	Q693	2SC1740S-Q	405 011 8401	NTE85	# Q900 (1)	CRT	414 008 9901	A80ECK272X54
D102	MTZJ5.6C	407 063 8903	-	Q695	2SA1015-Y(SAN)	405 001 7605	NTE290A	# Q900 (2)	CRT	414 009 5308	M80JUA068X71
D311	MTZJ4.7A	407 099 5006	-	Q701, 11, 21	2SC3620(LB-SAN-1)	406 000 3605	NTE157	# R104	33 5% 1/2W	401 009 4806	-
	RD5.1EB1	407 056 7906	-	Q831	2SA1015-GR(SAN)	406 000 6804	NTE290A	# R310, 11	47 5% 1/2W	401 010 2501	-
D312	1N4148	407 008 2406	NTE519	Q881, 82	2SC1740S-Q	405 011 8401	NTE85	# R407	4700 5% 2W	401 068 4700	-
D351	RD12EB2	407 054 3207	NTE5021T1	Q1071	2SC1740S-Q	405 011 8401	NTE85	# R413	4700 10% 5W Wirewound	402 067 3305	-
D406	ERB44-04	407 006 4108	NTE552					# R418	2700 5% 1/2W Nonflammable	401 009 1607	-
D407	ERD07-15L	407 095 8001	NTE506					# R421	1800 1% 1/6W	401 148 7201	-
# D421, 22	HZ11B2L	407 158 1307	NTE5020A					# R422	10K 1% 1/6W	401 052 6802	-
D428	MTZJ16A	407 099 7208	-	# A101	Tuner	645 040 5150	-	# R423	3300 1% 1/6W	401 053 2605	-
D429, 63	1N4148	407 008 2406	NTE519	A1901	Receiver	645 027 4213	Remote	# R481	33 5% 1/2W Nonflammable	401 009 4905	-
D481	ERA18-04	407 124 6404	NTE552	# C411	.0078 3% 1.5kV	404 077 4600	-	# R482	1 5% 1/4W Nonflammable	401 011 9004	-
D482	TVR1G	407 011 4407	NTE552		.0086 3% 1.5kV	404 077 5003	-	# R483	1 5% 1/2W Nonflammable	401 006 7701	-
D483	ERA18-04	407 124 6404	NTE552	# C412	.0078 3% 1.5kV	404 077 4600	-	# R486	4.7 5% 2W	401 068 1600	-
D486	MTZJ10B	407 099 6102	-	# C413	.022 5% 400V	403 083 4307	-	# R489	18 5% 1W	401 059 5907	-
D487	ERA15-02	407 005 8602	NTE552	# C414	.018 5% 400V	403 083 3904	-	R492	39K 1% 1/6W	401 097 3903	-
D489	1N4148	407 008 2406	NTE519		.022 5% 400V	403 083 4307	-	# R497	2.2 5% 2W	401 066 3002	-
D493	MTZJ7.5C	407 063 9306	-	# C416	.27 20% 200V	404 081 2609	-		1.5 5% 2W	401 064 5305	-
D501	ERA15-02	407 005 8602	NTE552		.27 5% 250V	403 346 7126	-	# R498	8.2 5% 1/2W	401 011 4306	-
D503	MTZJ36A	407 100 0204	-	# C417	.2 20% 200V	404 081 2302	-	# R511	270 5% 1W	401 060 7402	-
# D601 Thru					.2 5% 250V	403 346 6822	-	# R601	1 10% 7W Wirewound	402 064 2905	-
# D604	EM2B	407 005 7605	NTE125		2.2μF 20% 100V NP	404 056 5307	-	# R602	3.3M 10% 1/2W	402 000 0705	-
D609	ERA18-02	407 124 6503	NTE552		3.3μF 10% 50V	403 204 1802	-	# R604, 06	22 5% 2W	401 066 5204	-
D610	1N4148	408 008 2406	NTE519	# C511	.1 55 50V	403 057 2100	-	# R613	27 5% 2W	401 066 9103	-
D611	MTZJ5.6C	407 063 8903	-	# C601	.22 20% 250V	404 071 2404	-	R616	1500 2% 1/6W	401 025 1506	-
# D612	TLP621-1-BL	407 175 9904	NTE3098		.22 20% 275V	404 066 2204	-	R617	2700 2% 1/6W	401 026 0904	-
D614	1N4148	408 008 2406	NTE519	# C608	.0027 10% 1kV	403 266 5008	-	# R618	27 5% 2W	401 066 9103	-
# D621	RU3YX	407 106 2806	NTE588	# C625	.0022 10% 1kV	403 263 6305	-	R622	1800 2% 1/6W	401 025 4101	-
# D624	RU4YXLF-L1	407 129 6706	NTE580	# C632	.0022 20% 125VAC	404 008 6802	-	# R630	22K 5% 1W	401 060 5002	-
# D625	RU4AMLF-L1	407 129 7000	NTE580		.0022 20% 250VAC	404 073 4604	-	# R707, 17, 27	12K 5% 2W	401 065 4604	-
D627	1N4148	408 008 2406	NTE519		.001 +80% -20% 2kV	403 077 2807	-	R3411	62K 1% 1/10W	401 152 9604	-
D629	MTZJ16A	407 099 7208	-	# C742	4.7μF 20% 25V NP	403 086 0108	-	# RL601	Relay	645 000 4155	Degaussing
D680, 83, 87	1N4148	407 008 2406	NTE519		4.7μF 20% 25V NP	403 086 0108	-	SP901, 02	Speaker	645 013 6306	4" X 4", 8 Ohms, 3W
D693	MTZJ6.2B	407 099 5402	NTE5013T1		10μF 10% 10V Tantalum	403 299 1820	-	SW1901	Switch	645 027 7382	Power
D694	1N4148	408 008 2406	NTE519	# F601	4.7μF 20% 25V NP	403 086 0108	-	SW1902	Switch	645 027 7382	Volume Up
D801	1N4148	407 008 2406	NTE519		Fuse	423 018 8101	4Amp, 125V	SW1903	Switch	645 027 7382	Volume Down
D831	MTZJ3.6B	407 065 1308	-	# K701	Fuse Holder	645 000 5077	CRT	SW1904	Switch	645 027 7382	Channel Up
	RD4.3EB2	407 056 4707	-		Jack	645 032 1979	Assembly	SW1905	Switch	645 027 7382	Channel Down
D834	MTZJ20C	407 099 8007	-		Jack	645 032 1979	Assembly	SW1906	Switch	645 027 7382	Menu
D836, 43	1N4148	407 008 2406	NTE519		Jack	610 010 3665	Fixed Audio Out Right	T131	SIF	645 027 6095	-
D1001, 02, 06	MTZJ10B	407 099 6102	-		Jack	610 010 3672	Fixed Audio Out Left	T151	Oscillator, 45.75MHz	645 027 6088	-
D1008, 09	MTZJ3.6B	407 065 1308	-		L164	645 003 9713	-	T401	Horizontal Driver	610 000 1138	-
	RD4.3EB2	407 056 4707	-		L166	645 003 9812	-	# T402 (4)	Horizontal Output	645 032 8978	-
D1011, 21	MTZJ10B	407 099 6102	-		L305	645 008 2894	-	# T601	Power	645 040 1510	-
D1901	MTZJ7.5C	407 063 9306	-		L306	645 003 9782	-	VR461	10K	645 003 5531	Horizontal Width
IC001	LA4600	409 389 4607	-		L309	645 008 2894	-	# W601	Line Cord	645 034 8518	AC, Polarized
# IC101	LA76170N	409 431 2100	-		L310	610 078 5946	-	X141	Filter	421 006 3206	SAW
IC301	TC90A44P	409 406 1107	-		L312	645 008 2894	-	X153	Filter	610 015 2946	4.5MHz
# IC501	LA7841	409 340 1904	-		L332	645 003 9713	-	X161	Trap	610 015 3059	4.5MHz
# IC601	SE130NH	409 172 8102	-		L341	645 008 2924	-	X251	Crystal	610 204 4195	3.58MHz
IC681	TA78L05S	409 241 8309	NTE977		L401	645 017 7675	-	X401	Crystal	645 020 9147	507.5KHz
IC801	M37272M8-FPT	410 354-9503	-	# L413	Ferrite Bead	610 031 9998	-	X801	Crystal	645 026 8434	8MHz
IC802	24LC02B/P	409 333 3700	-		L402	610 078 6820	-		PC Board	610 281 9434	AV
IC1001	TC4053BP	409 051 3006	NTE4053B		L403	610 078 6820	-		PC Board	610 281 9472	CRT
IC1081	TC4053BP	409 051 3006	NTE4053B		L414	610 031 1367	-		PC Board (1)	610 285 7238	Main
IC3401	CXA2134Q-T6	409 467 1108	-		L416	645 013 8676	-		PC Board (2)	610 284 7130	Main
Q001	2SC1740S-Q	405 011 8401	NTE85		L601	610 078 6820	-		Transmitter	645 032 6165	Remote
Q101, 35	2SC1740S-Q	405 011 8401	NTE85		L621, 23, 25, 28	610 078 5946	-				
Q202, 16, 22	2SC1740S-Q	405 011 8401	NTE85		L801	645 008 2894	-	# For SAFETY use only equivalent replacement part.			
Q225	2SA1015-GR(SAN)	406 000 6804	NTE290A		L813, 14	645 006 2490	-	(1) Used in chassis G5R3259G4 and G5R-3259S1.			
Q301, 06	2SC1740S-Q	405 011 8401	NTE85		L821, 51	645 008 2894	-	(2) Used in chassis G5R-3259G2.			
Q307, 32	2SA1015-GR(SAN)	406 000 6804	NTE290A		L881, 82	645 006 2490	-	(3) Bonded part of CRT.			
Q341, 42, 43	2SC1740S-Q	405 011 8401	NTE85		# L901	Degaussing	-	(4) Screen and focus controls are part of T402.			
Q371, 72	2SA1015-GR(SAN)	406 000 6804	NTE290A		# L902 (3)	Yoke	-				
Q401	2SC2271-D-CTV	405 013 6207	NTE399		L1901	5.6μH	645 008 2894				
# Q402	2SD1879-CTV-YB	405 082 2407	NTE2331		# LF601	Line Filter	645 012 0589				
Q461	2SC1740S-Q	405 011 8401	NTE85		# PS601 (1)	3 Cold PTC	408 006 7304				
Q462	2SB1274-Q-RA	405 064 7307	NTE153		# PS601 (2)	-	408 038 5106				
Q486	2SD400-E-MP	405 023 5009	NTE382								
# Q601	2SC4423-CTV	405 095 9004	NTE2308								
Q604	2SC3807-R-CTV-YA	405 058 0208	NTE2504								
Q605	2SA1015-GR(SAN)	406 000 6804	NTE290A								
Q627	2SA1707-S	405 089 0000	-								
Q635, 81	2SC1740S-Q	405 011 8401	NTE85								
Q688	2SA1015-GR(SAN)	406 000 6804	NTE290A								

SANYO

MODEL AVM-3259G (CHASSIS G5R-3259G4)