

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.

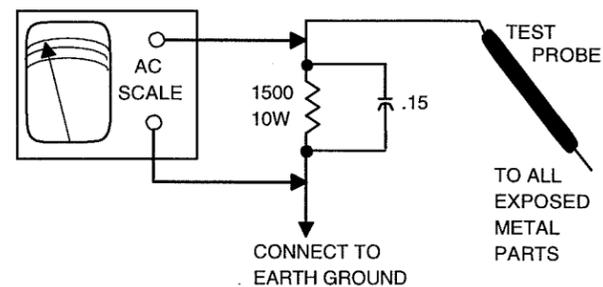
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC, turn the receiver on, and set all customer controls for normal operation. Measure the voltage at TP7. Voltage should measure between 16.5V and 21.0V. If voltage exceeds this range the circuit must be repaired. Momentarily connect a jumper between TP7 and the cathode of D421. 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 for 30 seconds and then restore AC power.

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.

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.

© 2000 SAMS Technical Publishing

5436 West 78th Street
Indianapolis, IN 46268-4149

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



00PF01666



0 81262 04339 4

PHOTOFACT® Technical Service Data

4339

SET 4339

MODEL DS27590 (CHASSIS 27590-01)

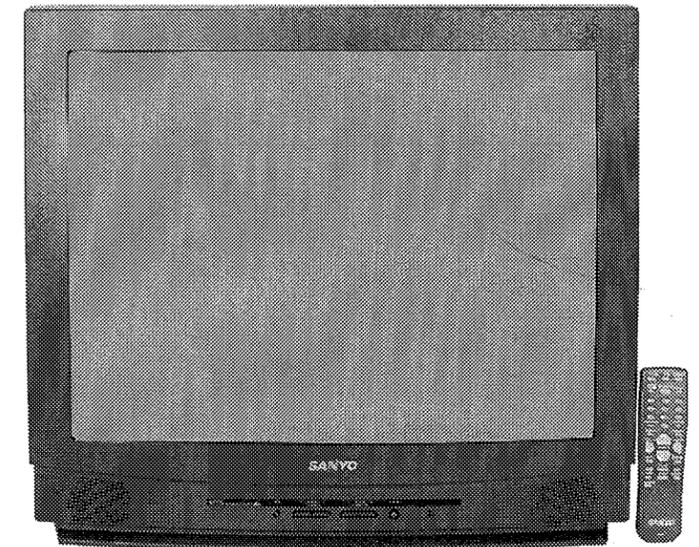
SANYO

INDEX

GridTrace Location	
Main Board	3
High Voltage Shutdown Test	1
IC Functions	1
Important Parts Information	4
Miscellaneous Adjustments	1
Parts List	4
Placement Chart	1
Safety Precautions	1
Schematic Component Location	1
Schematic Notes	2
Schematics	
Audio	1
Power Supply	2
System Control	2
Television	2
Test Equipment	4
Tuner Information	3

SANYO

Model DS27590 (Chassis 27590-01)



Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

MODELS	CHASSIS
AVM-2759S	G5G-2759S0
DS27590	27590-00

SAMS
Technical Publishing

SEPTEMBER 2000 SET 4339

4339

4339

For Supplier Address,
See PHOTOFACT Annual Index

SCHEMATIC COMPONENT LOCATION GUIDE

A1901	A33	C612	C27	C3446	C1	L401	E12	R167	B9	R602	B26	R848	C37
C001	A4	C613	C27	C3448	B1	L402	E13	R168	B9	R603	A28	R849	B37
C002	B4	C620	B27	D101	B39	L413	D14	R169	B11	R606	B29	R851	E37
C003	A4	C622	B30	D103	B40	L601	C28	R201	B14	R613	C28	R852	B35
C004	B4	C625	A30	D351	E9	L621	B30	R202	B15	R614	C27	R853	C34
C010	B6	C626	B30	D421	D11	L623	B30	R207	B14	R615	B28	R854	C35
C011	A6	C628	A32	D422	D11	L625	A29	R212	B20	R616	C26	R856	D38
C015	B6	C629	B32	D428	E10	L800	A34	R217	C15	R617	C27	R857	C38
C016	D5	C630	B31	D429	E10	L801	E31	R251	C20	R618	C28	R859	E38
C101	B40	C631	B26	D481	E27	L813	B20	R252	C20	R619	C26	R862	C35
C103	B40	C632	B27	D482	E10	L814	B21	R271	B19	R621	B30	R864	C35
C104	B39	C634	D28	D483	E26	L821	D36	R272	D20	R622	C27	R881	D37
C106	C9	C683	C30	D486	E31	L851	E37	R273	D20	R623	B26	R882	C37
C131	B13	C693	D28	D487	D19	L863	C35	R276	D20	R627	B31	R883	E37
C133	B12	C701	D23	D489	B35	L881	D37	R281	E9	R628	C31	R884	E37
C142	C11	C703	B22	D493	E31	L882	C37	R287	A21	R629	C30	R886	E37
C143	C10	C705	C22	D501	D13	L901	B26	R288	B21	R630	B31	R1001	C13
C147	E31	C707	B22	D503	E28	L902	D14	R289	B22	R631	D27	R1901	B34
C151	B11	C708	D24	D601	A27	L1901	E31	R343	B15	R632	D27	R1902	B34
C161	B10	C721	D22	D602	A27	LF601	A25	R347	B16	R634	D27	R1903	B33
C166	C12	C801	E31	D603	A27	PS601	A26	R348	B16	R683	C30	R1904	B33
C202	B17	C806	E32	D604	A27	Q001	C5	R349	B16	R686	B31	R1905	B33
C208	B20	C811	A36	D609	C27	Q005	C5	R351	C9	R691	B30	R1906	B33
C209	B15	C822	D36	D610	B27	Q135	A13	R352	C9	R692	C28	R1907	B33
C211	A18	C829	C35	D611	C26	Q202	B14	R353	E9	R693	D28	R1909	A35
C212	B20	C831	E34	D612	B26	Q342	B16	R371	E34	R694	C27	R1910	B35
C252	C20	C832	E35	D612	C26	Q343	C15	R372	E34	R695	C27	R3401	D3
C253	C20	C835	B35	D612	C26	Q371	D33	R373	D10	R701	B22	R3402	D3
C256	E31	C841	B20	D614	C27	Q372	D34	R376	D35	R702	B22	R3403	C3
C258	E32	C842	B19	D621	B30	Q401	E11	R377	E34	R703	C23	R3404	C3
C272	D20	C843	B19	D625	A30	Q402	E13	R400	C21	R704	C22	R3405	C3
C304	D32	C853	C34	D627	D28	Q486	D31	R401	C21	R705	C22	R3406	C3
C337	D31	C854	C35	D629	B30	Q601	C28	R403	B21	R706	C23	R3407	C3
C344	B15	C856	E37	D680	C31	Q604	C27	R404	E11	R707	A22	R3408	C3
C346	B15	C857	E37	D683	B31	Q605	B26	R406	E11	R708	A22	R3421	B3
C349	B15	C858	C36	D693	D28	Q627	B31	R407	E11	R709	B23	R3422	B3
C351	C9	C862	C36	D694	D28	Q635	D27	R411	E13	R711	A23	R3431	B3
C352	D9	C1000	D4	D721	D22	Q681	C31	R418	D14	R712	C23	R3432	C3
C371	D10	C1001	C13	D722	D22	Q693	C28	R421	E10	R713	B23	R3435	B3
C401	B21	C1902	E32	D801	B35	Q695	C27	R422	E11	R715	B23	R3437	C3
C403	C21	C3400	D32	D831	A35	Q701	B23	R423	D10	R716	C23	R3440	D3
C405	B21	C3401	D32	D834	C34	Q703	C23	R426	D11	R717	A23	R3445	C1
C406	E11	C3402	C2	D836	C34	Q705	A23	R428	E10	R722	D22	R3446	C1
C407	E11	C3403	C2	D843	C35	Q721	D22	R481	E27	R723	D22	R3447	C1
C408	E11	C3404	D3	D1001	C13	Q831	A35	R482	E10	R724	D22	R3448	B1
C410	E13	C3406	E3	D1008	D4	Q881	E35	R483	E26	R803	A20	RL601	A26
C412	E14	C3407	A2	D1009	D4	Q882	E35	R485	D20	R804	A21	RL601	B32
C416	D14	C3408	C3	D1901	E32	Q901	B24	R486	D30	R806	D37	SP901	B7
C417	E14	C3409	D3	D624A	B29	R001	A3	R487	E30	R807	D35	SP902	A7
C421	D10	C3410	D3	F601	A25	R002	B3	R489	D30	R808	D35	SW1901	B33
C426	D10	C3411	D2	IC002	A5	R003	A4	R491	D17	R809	C37	SW1902	B33
C473	E13	C3412	E2	IC101	A12	R004	B4	R492	D19	R810	B36	SW1903	B33
C482	E27	C3413	C3	IC101	B10	R005	C5	R493	D17	R813	A35	SW1904	B33
C484	E10	C3414	D2	IC101	B13	R006	C5	R494	D17	R814	A35	SW1905	B33
C486	E26	C3416	C3	IC101	B18	R012	C4	R497	A24	R816	A34	SW1906	C33
C487	E28	C3417	D2	IC101	D10	R101	B39	R498	D31	R821	E36	T131	B12
C493	D17	C3418	D2	IC501	D12	R106	B39	R503	D11	R822	E35	T151	B10
C497	E32	C3419	D2	IC601	D26	R133	B12	R504	D12	R823	E34	T401	E11
C502	D13	C3423	E2	IC681	E30	R136	A13	R505	D12	R826	E36	T402	D15
C503	D12	C3424	D2	IC801	B36	R137	A14	R506	D12	R827	E35	T402	E25
C504	D12	C3426	E2	IC802	D34	R138	B13	R507	D12	R828	E35	T601	A29
C505	D9	C3427	E2	IC3401	A2	R142	C10	R508	D12	R831	C35	W601	A25
C506	D11	C3428	C2	K1001	B1	R143	B9	R509	D12	R833	C34	X141	B9
C509	D9	C3429	E2	K1001	C12	R151	B11	R511	D14	R835	B35	X153	A11
C511	D14	C3431	E2	K1003	B4	R159	A11	R512	D15	R842	B38	X161	B12
C516	D12	C3435	B3	K1003	C4	R161	B10	R513	D15	R843	C38	X251	B18
C601	A25	C3437	C3	L164	B12	R162	B10	R517	D13	R844	B38	X401	D10
C608	B29	C3439	C2	L166	C12	R163	B11	R518	D12	R846	B37	X801	B35
C609	A28	C3440	D3	L346	B15	R164	B12	R601	A26	R847	B37		

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 26kV to 28kV.

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. Press the menu button to exit the service mode.

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, install resistor R513 (470 ohms 1W). If too high, install resistor R512 (470 ohms 1W).

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 17. Select service number 13 and set value to 1. 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 18. Select service number 29 and set value to 36. Select service number 30 and set value to 66. Select service number 31 and set value to 45. Exit service mode.

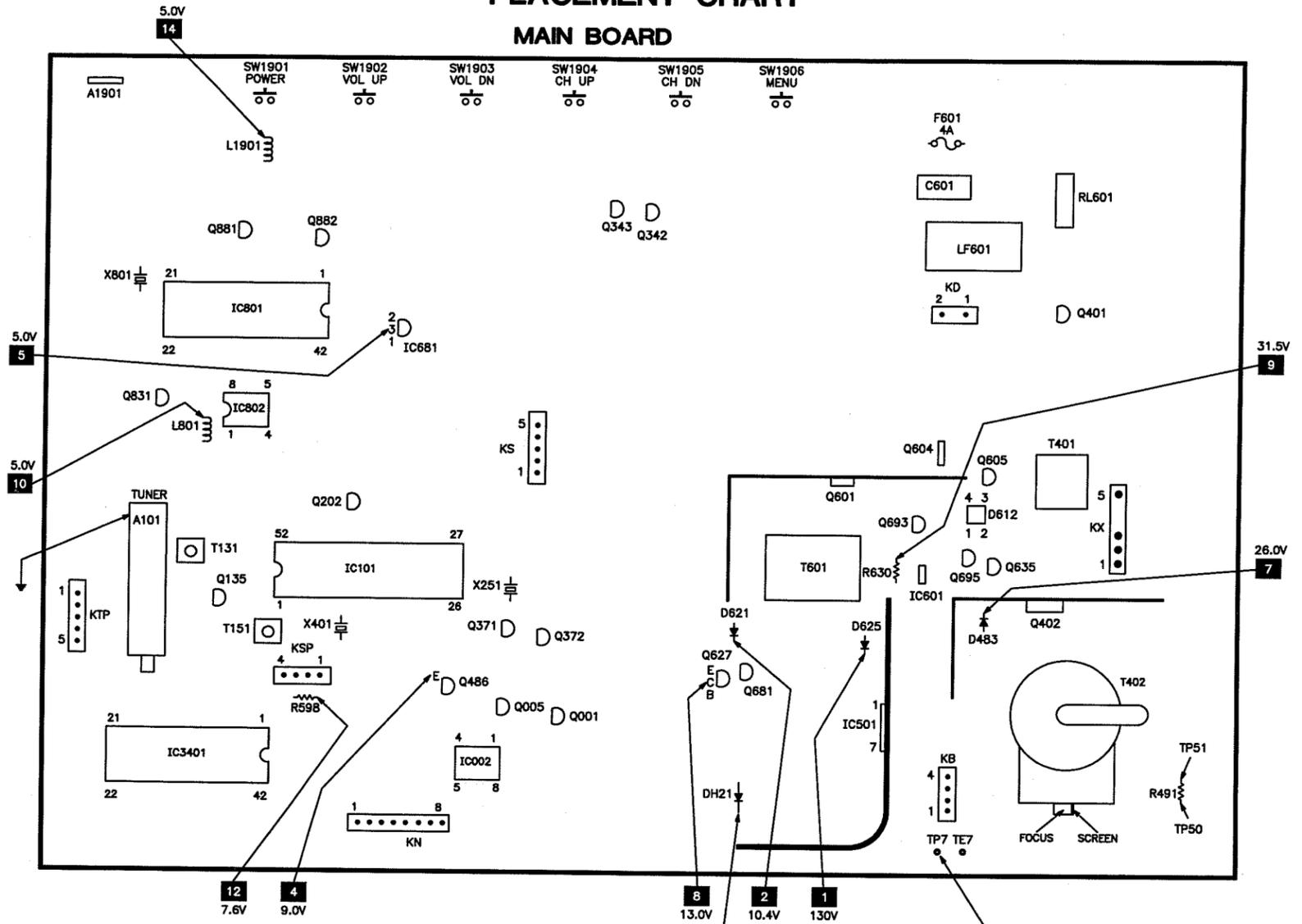
MISCELLANEOUS ADJUSTMENTS continued

SERVICE MODE ADJUSTMENT CHART

Service No.	Adjustment	Value Range	Initial Value	On-Set Value	Notes
01	HP	0-31	15	19	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	40	RF AGC Delay
04	PT	0-127	64	62	PLL Tuning
05	ADA	0-63	31	31	APC Detect
06	CD	0, 1	0	0	C-Diff
07	VS	0-63	32	28	Vertical Size
08	RB	0-127	0	42	Red Bias
09	GB	0-127	0	44	Green Bias
10	BB	0-127	0	0	Blue Bias
11	RD	0-127	60	73	Red Drive
12	BD	0-127	60	58	Blue Drive
13	TDS	0, 1	0	1	Trap & D (B.P.F.) Switch, 0 = Off, 1 = On
14	AF	0, 1	0	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	3	0	AFC Gain
25	SB	0-63	32	32	Sub Brightness
26	SCO	0-31	10	8	Sub Color
27	STI	0-31	14	20	Sub Tint
28	SSH	0-15	8	8	Sub Sharpness
29	OPT	0-255	0	36	Option, data 1 should be to "36", in binary 8 bit 00100100
30	OP2	0-255	0	64	Option, data 2 should be to "64", in binary 8 bit 01000000
31	HR	0-63	43	47	OSD H-Position
32	INP	0-63	32	19	Input Level
33	STE	0-63	32	37	Stereo VCO
34	FIL	0-63	63	34	Filter
35	LSP	0-63	32	13	Low Separation
36	HSP	0-63	32	14	High Separation
37	SPV	0-63	32	38	SAP VCO
38	PCO	0-63	32	32	PIP Color
39	PTI	0-63	32	32	PIP Tint
40	DRV	0-127	55	73	Red Drive, press 1 to decrease value and 3 to increase value
	DRV	0-127	55	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

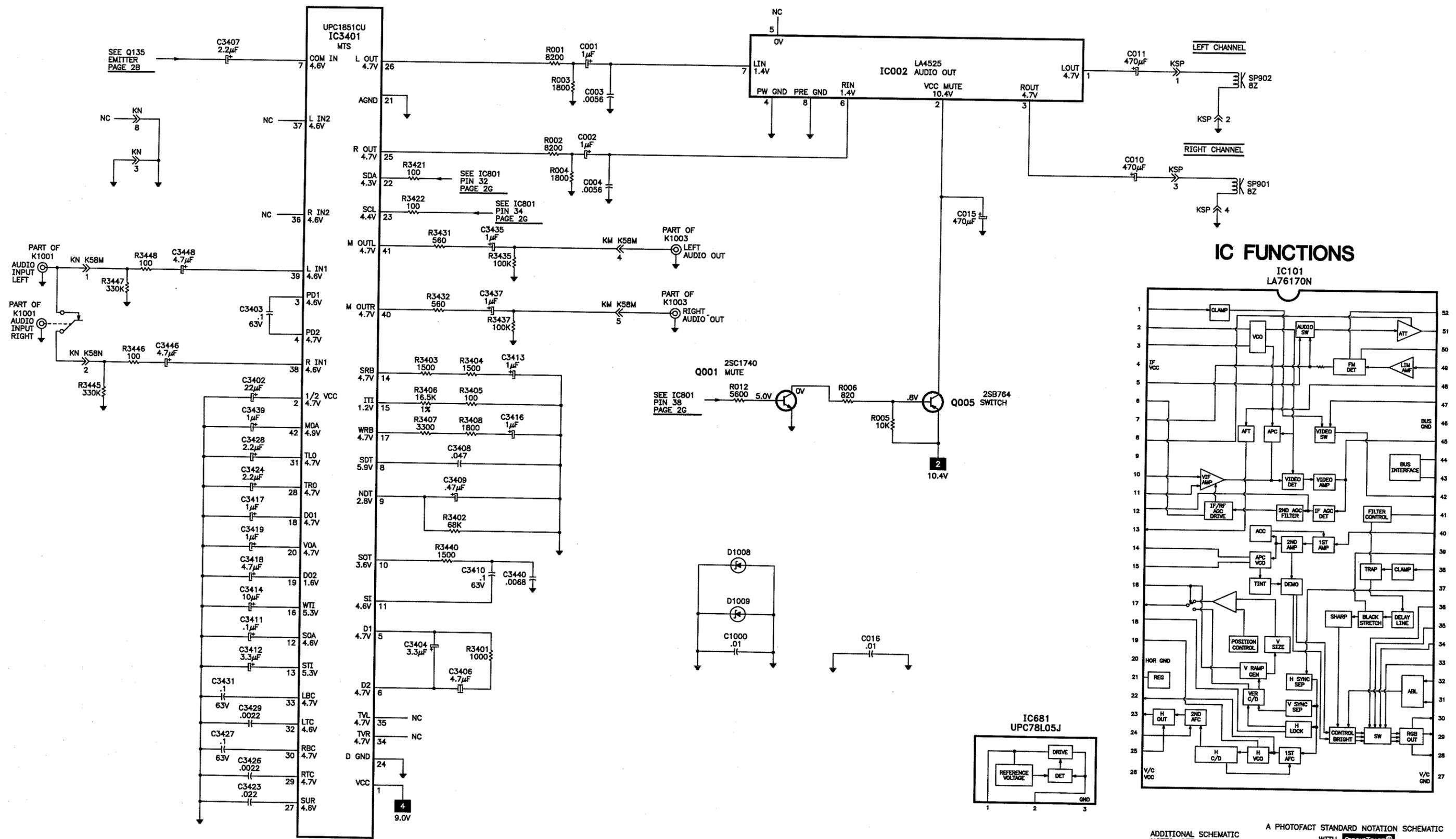
MAIN BOARD



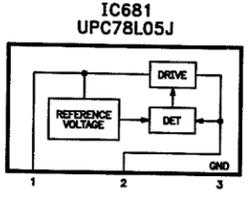
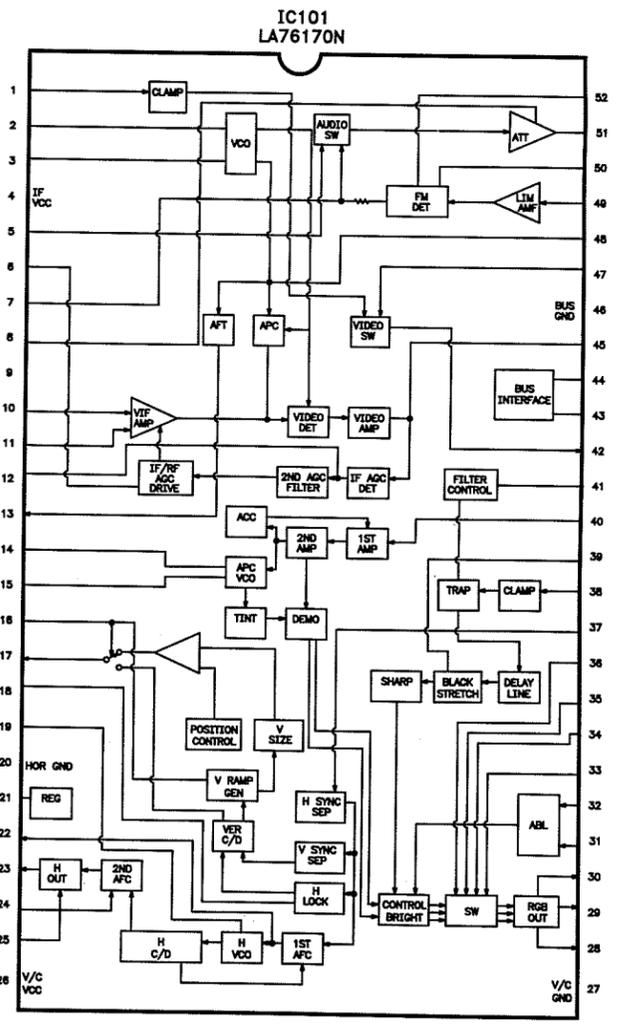
AUDIO SCHEMATIC

G

H



IC FUNCTIONS



SANYO MODEL DS27590 (CHASSIS 27590-01)

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2H
 A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CircuitTrace®
 © 2000 SAMS Technical Publishing

A

TELEVISION SCHEMATIC

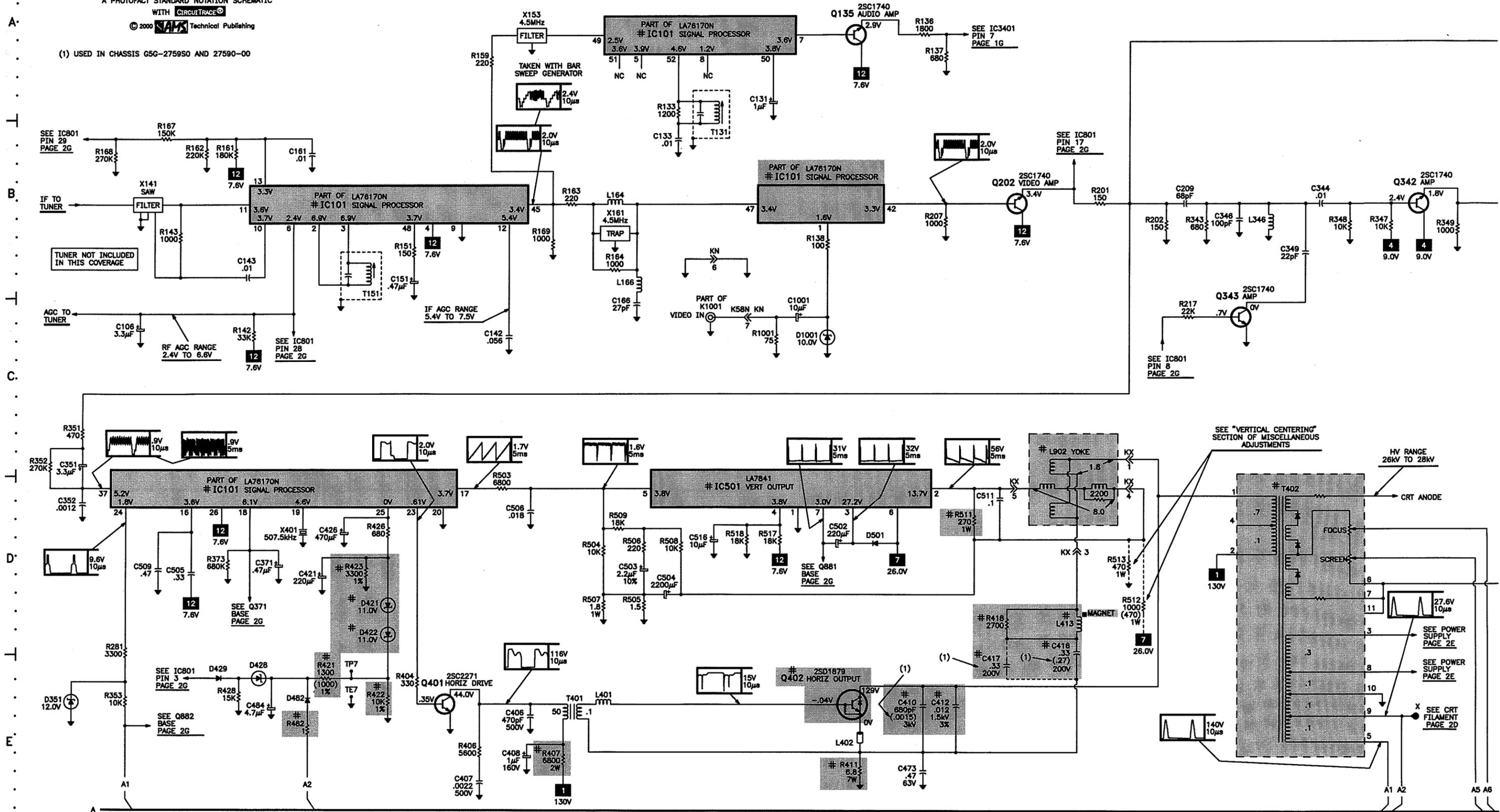
B

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2H

A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE

© 2000 NAIMS Technical Publishing

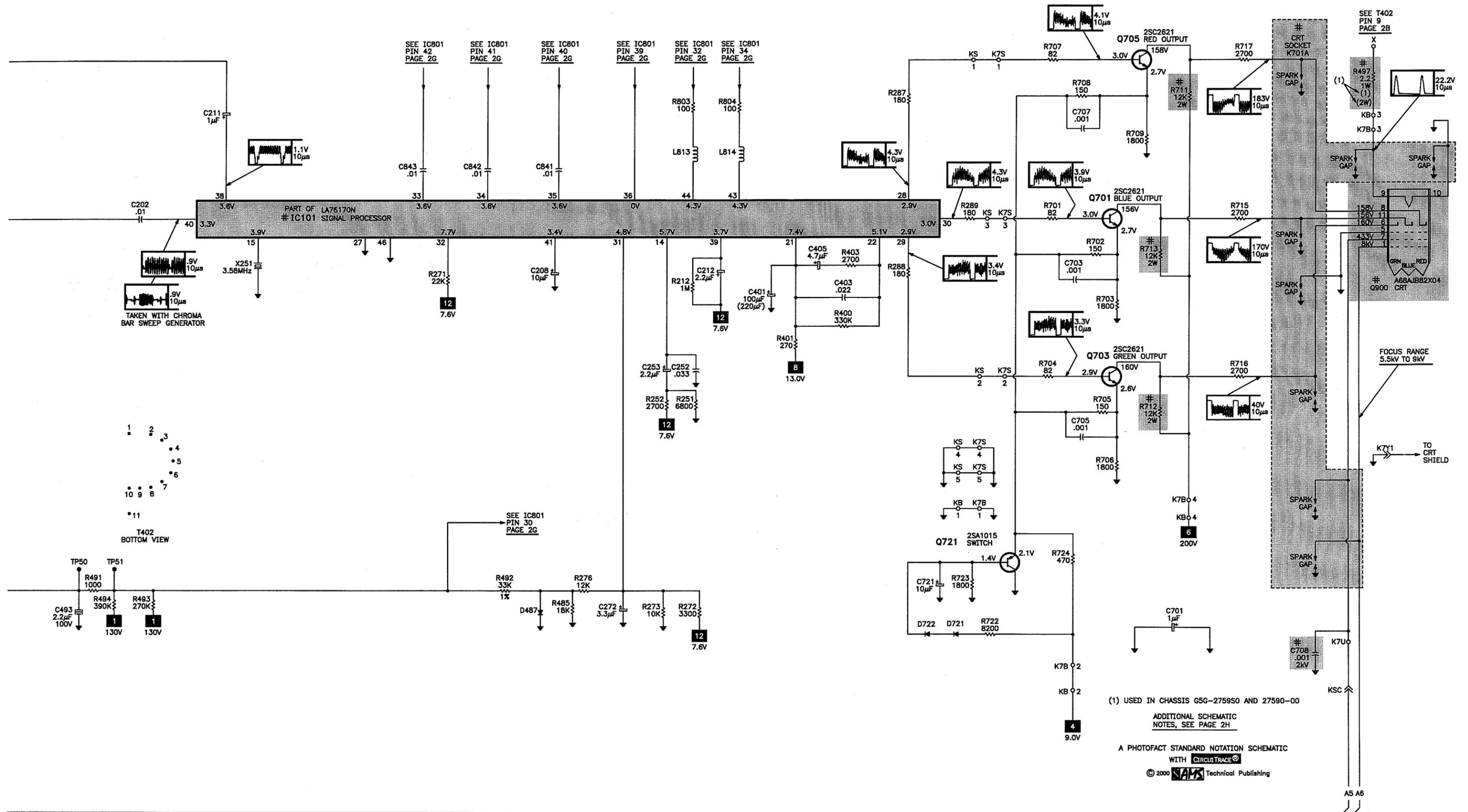
(1) USED IN CHASSIS G5G-2759S0 AND 27590-00



TELEVISION SCHEMATIC continued

C

D



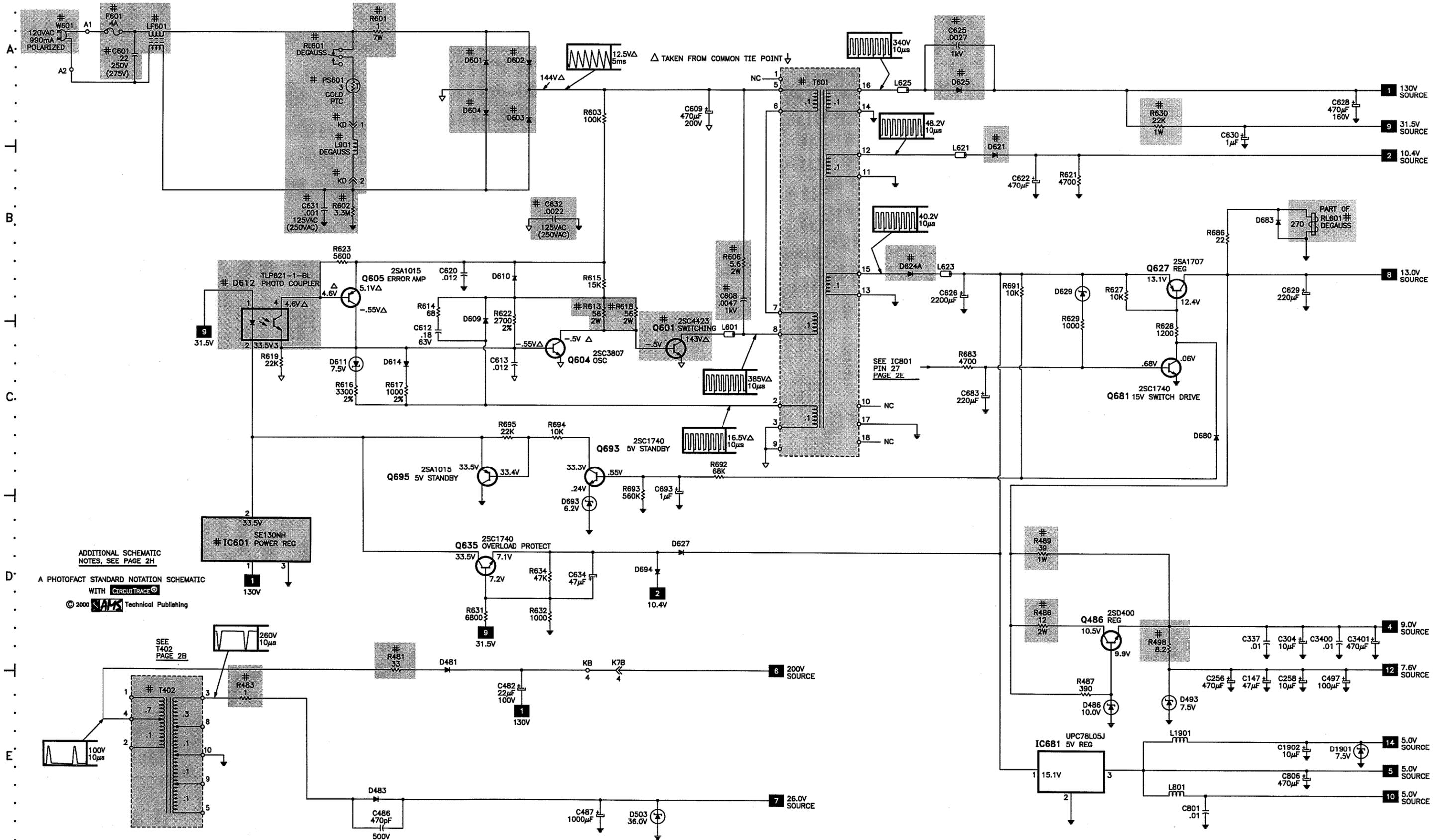
(1) USED IN CHASSIS G5G-2759S0 AND 27590-00

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2H

A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE

© 2000 SAMS Technical Publishing

POWER SUPPLY SCHEMATIC



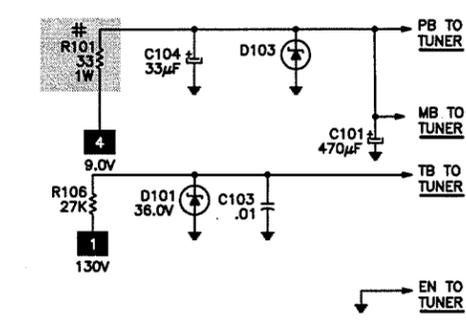
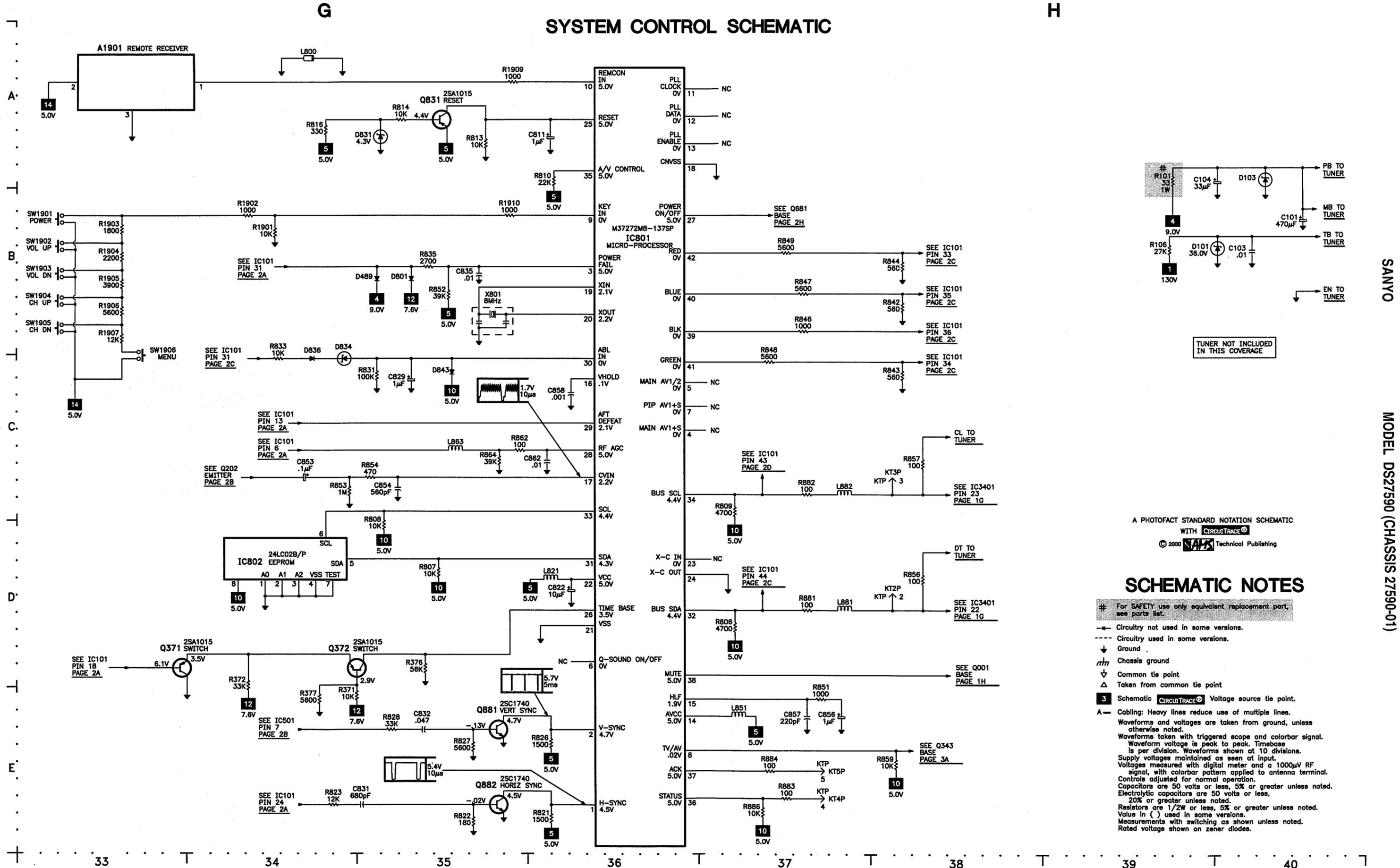
ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2H

A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®

© 2000 SAMS Technical Publishing

SEE T402 PAGE 2B

SYSTEM CONTROL SCHEMATIC



TUNER NOT INCLUDED IN THIS COVERAGE

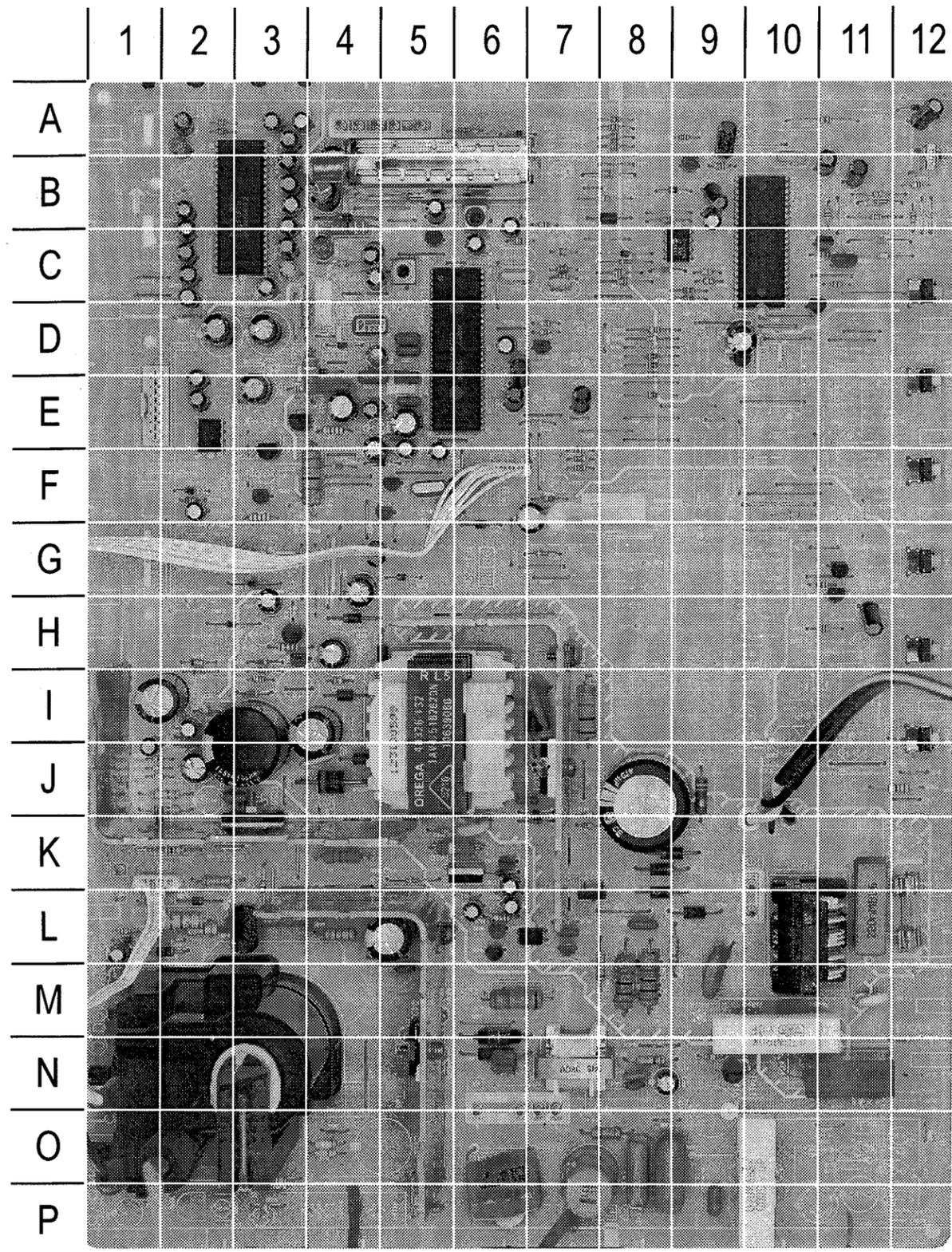
A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE
© 2000 SAMS Technical Publishing

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 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 DS27590 (CHASSIS 27590-01)

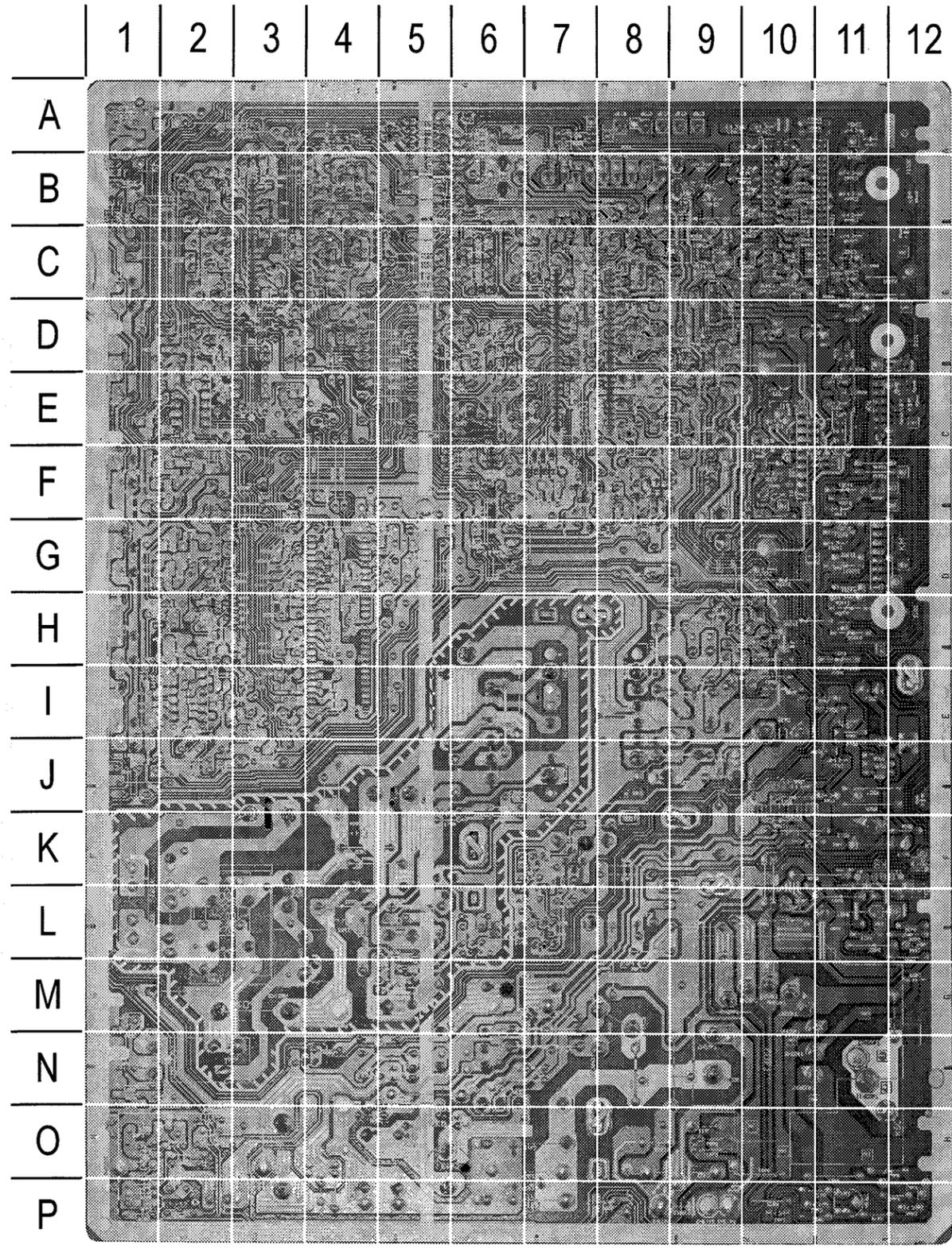
MAIN BOARD - TOP VIEW



MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

A101	B6	C504	I1	C3435	C2	D1901	A12	Q401	N9	R491	O3	R842	F7
A1901	B12	C505	E4	C3437	C2	F601	L12	Q402	N5	R492	F7	R843	F7
C001	E2	C506	J3	C3439	C2	IC002	E2	Q486	E3	R493	O4	R844	F7
C002	E2	C509	E4	C3446	B2	IC101	C5	Q601	J7	R494	O4	R847	D8
C010	D2	C511	N6	C3448	C2	IC501	K3	Q604	L7	R497	L2	R848	D8
C011	D3	C516	I2	D101	A6	IC601	K6	Q605	L7	R498	D3	R849	D8
C015	E3	C601	L11	D103	B4	IC681	D9	Q627	H3	R503	I2	R856	A6
C101	B4	C608	I7	D351	F4	IC801	C10	Q635	L6	R504	K1	R857	A6
C104	B5	C609	J8	D421	H2	IC802	C9	Q681	H3	R505	J2	R862	A9
C106	C4	C612	L8	D422	I2	IC3401	C3	Q693	K6	R506	J1	R883	A8
C131	C6	C613	J7	D428	L1	KB	K1	Q695	L6	R507	J2	R884	A8
C142	D5	C620	L7	D429	K5	KD	L10	Q831	B9	R508	J1	R886	C9
C147	C4	C622	H4	D481	L2	KN	E1	Q881	C11	R509	J1	R1001	F2
C151	B6	C625	J4	D482	L2	KS	F6	Q882	D10	R511	K4	R1901	B12
C202	D6	C626	I3	D483	L5	KSP	D4	R006	F3	R512	K2	R1902	B12
C208	D6	C628	I3	D486	D4	KTP	A5	R012	E8	R517	I2	R1909	A11
C211	E7	C629	G4	D487	F6	KX	N6	R101	B4	R601	M10	R1910	B11
C212	D6	C630	L6	D489	B11	L164	C7	R106	K2	R602	J9	R3406	B3
C252	D5	C631	M11	D493	D4	L166	C7	R136	C4	R603	L9	R3421	A2
C253	D4	C632	K6	D501	J3	L346	H11	R151	C7	R606	I7	R3422	A2
C256	F7	C634	L6	D503	L4	L401	N6	R159	B7	R613	M8	RL601	N11
C258	F5	C683	H3	D601	L8	L402	N6	R164	C7	R614	M8	SW1901	C12
C272	F6	C693	K6	D602	L9	L413	P7	R167	B8	R615	M8	SW1902	E12
C304	H11	C806	D9	D603	K8	L601	I7	R201	D7	R616	J7	SW1903	F12
C351	E6	C811	B9	D604	K8	L621	H5	R202	D7	R617	K7	SW1904	G12
C371	F5	C822	A9	D609	M8	L623	I4	R217	F10	R618	M8	SW1905	H12
C401	E4	C829	B9	D610	M8	L625	J4	R349	G11	R619	L7	SW1906	I12
C403	E5	C831	P5	D611	J7	L800	B8	R351	E7	R621	I4	T131	B6
C405	E4	C832	C11	D612	L7	L801	B8	R353	K3	R622	M8	T151	C5
C406	N8	C853	B11	D614	K7	L813	C8	R371	G9	R628	H3	T401	N7
C407	N8	C856	B11	D621	H4	L814	C8	R372	F8	R630	K6	T402	N2
C408	N8	C1001	F2	D624A	I4	L821	B9	R401	E4	R631	L6	T601	J5
C410	P6	C1902	A12	D625	J4	L851	B11	R404	N9	R634	L6	TE7	K1
C412	O6	C3401	B4	D627	I3	L863	B8	R406	N8	R683	D8	TP7	L1
C416	O8	C3402	C3	D629	G5	L881	A8	R407	M6	R686	J12	TP50	O3
C417	O8	C3404	C3	D680	I3	L882	A8	R411	O10	R691	I3	TP51	O3
C421	F4	C3406	C3	D683	N12	L1901	C11	R418	O8	R692	K5	X141	D4
C426	E5	C3407	C4	D693	K6	LF601	L10	R421	L2	R694	L6	X153	C6
C473	P9	C3409	B3	D694	H3	PS601	M9	R422	L1	R803	C9	X161	C7
C482	L3	C3411	B3	D801	G7	Q001	F3	R423	F4	R804	C9	X251	F5
C484	L1	C3413	A3	D831	B9	Q005	F3	R428	L1	R810	C9	X401	E5
C486	M5	C3416	A3	D834	C8	Q135	C5	R481	L2	R822	C11	X801	B10
C487	L5	C3417	B3	D836	C8	Q202	D7	R482	M1	R823	P3		
C493	M1	C3418	B3	D843	C8	Q342	G11	R483	L4	R827	C11		
C497	G4	C3419	A3	D1001	F2	Q343	G11	R486	F4	R828	C11		
C502	J2	C3424	A2	D1008	G3	Q371	F5	R487	E3	R833	D8		
C503	J1	C3428	A2	D1009	H2	Q372	F5	R489	D4	R835	B11		

MAIN BOARD - BOTTOM VIEW



MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C003	F11	C843	F6	R001	D11	R252	D9	R426	E8	R831	C4	R3404	A10
C004	F11	C854	B3	R002	D11	R271	G8	R485	F6	R846	C4	R3405	B10
C016	I9	C857	C3	R003	D11	R272	F7	R518	J11	R851	B3	R3407	B10
C103	B7	C858	B3	R004	E11	R273	F7	R623	L6	R852	C3	R3408	A10
C133	C7	C862	A4	R005	F10	R276	F7	R627	H10	R853	B2	R3431	C11
C143	D8	C1000	G10	R133	B7	R281	F8	R629	G8	R854	B2	R3432	C11
C161	D8	C3400	C10	R137	C9	R287	F7	R632	K7	R859	C3	R3435	C11
C166	C6	C3403	C10	R138	C8	R288	F7	R693	K7	R864	B5	R3437	C11
C209	G8	C3408	C10	R142	C8	R289	F7	R695	L7	R881	A5	R3440	B10
C337	H2	C3410	B10	R143	D8	R343	H2	R806	C4	R882	A5	R3445	E12
C343	H2	C3412	B10	R161	D9	R347	H2	R807	C4	R1903	D1	R3446	E12
C344	H2	C3414	B10	R162	D8	R348	H2	R808	C4	R1904	F1	R3447	D12
C346	H2	C3423	B10	R163	C6	R352	E7	R809	C4	R1905	G1	R3448	D12
C352	D7	C3426	B10	R168	B5	R373	E7	R813	B4	R1906	H1		
C801	D4	C3427	B10	R169	D7	R376	F8	R814	B4	R1907	I1		
C835	C2	C3429	B10	R207	D7	R377	F8	R816	B4	R3401	C10		
C841	F6	C3431	B10	R212	D7	R400	E8	R821	C2	R3402	C10		
C842	F6	C3440	C10	R251	D8	R403	E8	R826	C3	R3403	B10		

SANYO

MODEL DS27590 (CHASSIS 27590-01)

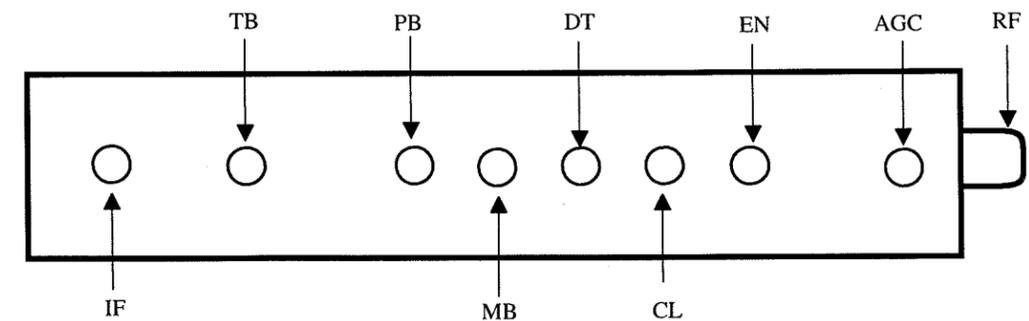
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
AGC	2.4V	2.2V	1.9V
EN	0V	0V	0V
CL	4.4V	4.4V	4.4V
DT	4.3V	4.3V	4.3V
MB	5.0V	5.0V	5.0V
PB	5.0V	5.0V	5.0V
TB	33.2V	33.2V	33.2V
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



PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.
D101	RD36EB1	407 056 2307	ECG5037A
	MTZJ36A	407 100 0204	-
D103	RD5.1FB2	407 056 8903	ECG135A
	RD5.1FB3	407 056 9009	-
D351	MTZJ12B	407 099 6607	ECG5021T1
	MTZJ12C	407 063 8408	ECG5021T1
	RD12EB2	407 054 3207	ECG5021T1
	RD12EB3	407 054 3306	ECG5021A
# D421, 22	HZ11B2L	407 158 1307	ECG5020A
D428	MTZJ15A	407 099 6904	-
	RD15EB1	407 054 5706	ECG5023A
D429	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D481	ERA18-04	407 124 6404	ECG552
	ES1	407 007 6606	ECG552
	RMPG06G	407 124 5506	ECG552
D482	TVR1G	407 011 4407	ECG552
D483	ERA18-04	407 124 6404	ECG552
	ES1	407 007 6606	ECG552
	RMPG06G	407 124 5506	ECG552
D486	MTZJ10B	407 099 6102	-
	RD10EB2	407 054 0008	ECG5019A
D487	ERA15-02	407 005 8602	ECG552
	MPG06D	407 088 6502	ECG552
	SS277B	407 011 3004	ECG552
	1N4002ID	408 009 9404	ECG116
D489	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D493	MTZJ7.5C	407 063 9306	-
	RD7.5EB3	407 057 6502	ECG5015A
D501	ERA15-02	407 005 8602	ECG552
	MPG06D	407 088 6502	ECG552
	SS277B	407 011 3004	ECG552
	1N4002ID	408 009 9404	ECG116
D503	RD36EB1	407 056 2307	ECG5037A
	MTZJ36A	407 100 0204	-
# D601 Thru			
# D604	1S1887A	407 013 3200	ECG552
	EM2B	407 005 7605	ECG125
	GP15G	408 008 8606	ECG125
D609	ERA18-02	407 124 6503	ECG552
	ES1Z	407 007 6903	ECG552
	RMPG06D	407 124 5605	ECG587
	BYD33D	408 009 9008	ECG569
D610	1N4148	408 008 2406	ECG519
	1S2076A	407 013 4306	ECG519
	1S2471	407 013 6508	ECG519
D611	MTZJ7.5A	407 099 5808	-
	RD7.5EB1	407 057 6304	ECG5015A
# D612	TLP621-1-BL	407 175 9904	ECG3098
	ON3131S	407 147 5705	-
	PC817C	407 104 2402	ECG3098
	PC817D	407 106 6101	ECG3098
D614	1N4148	408 008 2406	ECG519
	1S2076A	407 013 4306	ECG519
	1S2471	407 013 6508	ECG519
# D621	EU2	407 007 7603	ECG552
# D624A	RU3YX	407 106 2806	ECG588
# D625	RU4AMLF-L1	407 129 7000	ECG580
D627	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
	DS442X	407 005 4505	ECG519
D629	MTZJ16A	407 099 7208	-
	RD16EB1	407 054 7007	ECG5025A

For SAFETY use only equivalent replacement part.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.
D680, 83	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D693	MTZJ6.2B	407 099 5402	ECG5013T1
	RD6.2EB2	407 057 2702	ECG5013A
D694	1N4148	408 008 2406	ECG519
	DS442X	407 005 4505	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D721, 22	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D801	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D831	MTZJ3.6B	407 065 1308	-
	RD4.3EB2	407 056 4707	ECG5008A
D834	MTZJ18C	407 099 7703	-
	RD18EB3	407 054 8509	ECG5027A
D836, 843	DS442X	407 005 4505	ECG519
	1N4148	408 008 2406	ECG519
	1SS133	407 012 4406	ECG519
	1S2076	407 013 4207	ECG177
	1S2473	407 013 7109	ECG177
D1001	MTZJ10B	407 099 6102	-
	RD10EB2	407 054 0008	ECG5019A
D1008	MTZJ3.6B	407 065 1308	-
	RD4.3EB2	407 056 4707	ECG5008A
D1009	MTZJ3.6B	407 065 1308	-
	RD4.3EB2	407 056 4707	ECG5008A
D1901	MTZJ7.5C	407 063 9306	-
	RD7.5EB3	407 057 6502	ECG5015A
IC002	LA4525	409 275 7903	-
# IC101	LA76170N	409 431 2100	-
# IC501	LA7841	409 340 1904	-
# IC601	SE130NH	409 172 8102	-
IC681	TA78L05S	409 241 8309	ECG977
	UPC78L05J	409 066 7303	ECG977
IC801	M37272M8-137SP	410 342 5306	-
IC802	24LC02B/P	409 333 3700	-
	ST24C02B6	409 376 1503	-
IC3401	UPC1851BCU	409 432 7807	-
Q001	2SC1740S-Q	405 011 8401	ECG85
	2SC1740S-R	405 011 8500	ECG85
	2SC1740S-S	405 011 8609	ECG85
	2SC1815-GR	405 012 2002	ECG85
	2SC1815-O	405 012 2101	ECG85
	2SC1815-Y	405 012 2309	ECG85
	2SC945A-PA	405 020 7501	ECG85
	2SC945A-QA	405 020 7709	ECG85
	2SC945A-RA	405 020 7907	ECG85
Q005	2SB764-E	405 008 4805	ECG383
	2SB764-F	405 008 4904	ECG383
Q135, 202	2SC1740S-Q	405 011 8401	ECG85
	2SC1740S-R	405 011 8500	ECG85
	2SC1740S-S	405 011 8609	ECG85
	2SC1815-GR	405 012 2002	ECG85
	2SC1815-O	405 012 2101	ECG85
	2SC1815-Y	405 012 2309	ECG85
	2SC945A-PA	405 020 7501	ECG85
	2SC945A-QA	405 020 7709	ECG85
	2SC945A-RA	405 020 7907	ECG85

For SAFETY use only equivalent replacement part.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.
Q342, 43	2SC1740S-Q	405 011 8401	ECG85
	2SC1740S-R	405 011 8500	ECG85
	2SC1740S-S	405 011 8609	ECG85
	2SC1815-GR	405 012 2002	ECG85
	2SC1815-O	405 012 2101	ECG85
	2SC1815-Y	405 012 2309	ECG85
	2SC945A-PA	405 020 7501	ECG85
	2SC945A-QA	405 020 7709	ECG85
	2SC945A-RA	405 020 7907	ECG85
Q371, 72	2SA1015-GR(SAN)	406 000 6804	ECG290A
	2SA1015-O(SAN)	405 001 7407	ECG290A
	2SA1015-Y(SAN)	405 001 7605	ECG290A
	2SA564A-Q(CU)	405 004 3109	ECG290A
	2SA564A-R(CU)	405 004 3208	ECG290A
	2SA933S-Q	405 006 1707	ECG290A
	2SA933S-R	405 006 1806	ECG290A
Q401	2SC2271-D-CTV	405 013 6207	ECG399
	2SC2271-E-CTV	405 013 6306	ECG399
# Q402	2SD1879-CTV-YB	405 082 2407	ECG2331
Q486	2SD400-E-MP	405 023 5009	ECG382
	2SD400-F-MP	405 023 5306	ECG382
# Q601	2SC4423-CTV	405 095 9004	ECG2308
Q604	2SC3807-R-CTV-YA	405 058 0208	ECG2504
Q605	2SA1015-GR(SAN)	406 000 6804	ECG290A
	2SA1015-O(SAN)	405 001 7407	ECG290A
	2SA1015-Y(SAN)	405 001 7605	ECG290A
	2SA564A-Q(CU)	405 004 3109	ECG290A
	2SA564A-R(CU)	405 004 3208	ECG290A
	2SA933S-Q	405 006 1707	ECG290A
	2SA933S-R	405 006 1806	ECG290A
Q627	2SA1707-S	405 089 0000	-
	2SA1707-T	405 089 0109	-
	2SB985-S	405 009 6907	-
	2SB985-T	405 009 7003	-
Q635, 681, 693	2SC1740S-Q	405 011 8401	ECG85
	2SC1740S-R	405 011 8500	ECG85
	2SC1740S-S	405 011 8609	ECG85
	2SC1815-GR	405 012 2002	ECG85
	2SC1815-O	405 012 2101	ECG85
	2SC1815-Y	405 012 2309	ECG85
	2SC945A-PA	405 020 7501	ECG85
	2SC945A-QA	405 020 7709	ECG85
	2SC945A-RA	405 020 7907	ECG85
Q695	2SA1015-Y(SAN)	405 001 7605	ECG290A
	2SA564A-R(CU)	405 004 3208	ECG290A
	2SA608-F-CTV-NP	405 004 4809	ECG290A
Q701, 03, 05	2SC2621-E-RA	405 041 6705	ECG157
	2SC2621-C-RA	405 066 4304	ECG157
	2SC2621-D-RA	405 041 6507	ECG157
	2SC2688(1)-K	405 066 9903	ECG157
	2SC2688(1)-L	405 067 0008	ECG157
	2SC2688(1)-M	405 067 0107	ECG157
	2SC3620(LB-SAN-1)	406 000 3605	ECG157
Q721, 831	2SA1015-GR(SAN)	406 000 6804	ECG290A
	2SA1015-O(SAN)	405 001 7407	ECG290A
	2SA1015-Y(SAN)	405 001 7605	ECG290A
	2SA564A-Q(CU)	405 004 3109	ECG290A
	2SA564A-R(CU)	405 004 3208	ECG290A
	2SA933S-Q	405 006 1707	ECG290A
	2SA933S-R	405 006 1806	ECG290A
Q881, 82	2SC1740S-Q	405 011 8401	ECG85
	2SC1740S-R	405 011 8500	ECG85
	2SC1740S-S	405 011 8609	ECG85
	2SC1815-GR	405 012 2002	ECG85
	2SC1815-O	405 012 2101	ECG85
	2SC1815-Y	405 012 2309	ECG85
	2SC945A-PA	405 020 7501	ECG85
	2SC945A-QA	405 020 7709	ECG85
	2SC945A-RA	405 020 7907	ECG85

For SAFETY use only equivalent replacement part.

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.

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

PARTS LIST continued

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.
# PS601	3 Cold PTC	408 006 7304
# R101	33 5% 1W	401 061 1706
# R407	6800 5% 2W	401 069 3702
# R411	6.8 10% 7W Wirewound	402 068 5001
	6.8 10% 7W Wirewound	402 076 0401
# R418	2700 5% 1/2W Nonflammable	401 009 1607
# R421	1000 1% 1/6W	401 052 6505
# R422	10K 1% 1/6W	401 052 6802
# R423	3300 1% 1/6W	401 053 2605
# R481	33 5% 1/2W Nonflammable	401 009 4905
# R482	1 5% 1/4W Nonflammable	401 011 9004
# R483	1 5% 1/2W Nonflammable	401 006 7701
# R486	12 5% 2W	401 065 1801
# R489	39 5% 1W	401 067 5308
R492	33K 1% 1/6W	401 156 8504
# R497 (1)	1 5% 2W	401 064 3806
# R497 (2)	2.2 5% 1W	401 059 9608
# R498	8.2 5% 1/2W	401 011 4306
# R511	270 5% 1W	401 060 7402
# R601	1 10% 7W Wirewound	402 064 2905
	1 10% 7W Wirewound	402 072 3000
# R602	3.3M 10% 1/2W	402 000 0705
# R606	5.6 5% 2W	401 068 6209
# R613	56 5% 2W	401 068 6902
R616	3300 2% 1/6W	401 026 4209
R617	1000 2% 1/6W	401 024 6908
# R618	56 5% 2W	401 068 6902
R622	2700 2% 1/6W	401 026 0904
# R630	22K 5% 1W	401 060 5002
# R711, 12, 13	12K 5% 2W	401 065 4604

For SAFETY use only equivalent replacement part.
 (1) Used in chassis G5G-2759S0 and 27590-00.
 (2) Used in chassis 27590-01.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
# C410 (1)	.0015 10% 3kV	403 254 9506
	.0015 10% 3kV	403 232 2604
# C410 (2)	680pF 10% 3kV	403 324 3007
	680pF 10% 3kV	403 232 3403
# C412	.012 3% 1.5kV	404 066 4109
	.012 3% 1.5kV	404 079 1607
	.012 3% 1.5kV	403 343 7713
# C416 (1)	.27 5% 200V	403 082 9016
# C416 (2)	.33 5% 200V	403 082 9818
# C417 (1)	.33 5% 200V	403 082 9818
C493	2.2µF 20% 100V NP	404 056 5307
C503	2.2µF 10% 50V	403 276 0208
# C601	.68 20% 250V	404 071 2404
	.68 20% 275V	404 066 2204
# C608	.0047 10% 1kV	403 247 5508
	.0047 10% 1kV	403 232 0600
# C625	.0027 10% 1kV	403 232 0402
# C631	.001 10% 125VAC	404 008 6604
	.001 20% 125VAC	404 046 5409
	.001 20% 250VAC	404 073 4000
# C632	.0022 20% 125VAC	404 008 6802
	.0022 20% 125VAC	404 046 5003
	.0022 20% 250VAC	404 073 4604
# C708	.001 +80% -20% 2kV	403 175 3419
	.001 +80% -20% 2kV	403 077 2807
C3406	4.7µF 20% 25V NP	403 166 1605
C3412	3.3µF 10% 10V Tantalum	403 124 9213
C3414	10µF 10% 10V Tantalum	403 299 1820

For SAFETY use only equivalent replacement part.
 (1) Used in chassis G5G-2759S0 and 27590-00.
 (2) Used in chassis 27590-01.

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
L164	15µH	645 003 9713
	15µH	645 016 2657
L166	33µH	645 003 9812
	33µH	645 016 2985
L346	10µH	610 031 3873
	10µH	645 016 2534
L401	3.3µH	645 017 7675
L402	Ferrite Bead	610 031 9998
# L413	Horizontal Linearity	645 025 4413
	Horizontal Linearity	645 029 8042
L601	Ferrite Bead	610 078 6820
L621	Ferrite Bead	610 078 5946
L623, 25	Ferrite Bead	610 078 5946
L800	Ferrite Bead	610 078 5946
L801, 13, 14	5.6µH	645 008 2894
	5.6µH	645 016 3104
L821, 51, 63	5.6µH	645 008 2894
	5.6µH	645 016 3104
L881, 82	5.6µH	645 008 2894
	5.6µH	645 016 3104
# L901 (1)	Degaussing	645 030 1902
# L901 (2)	Degaussing	645 022 8711
# L902 (3)	Yoke Horiz 1.3mH Vert 16.8mH	-
L1901	5.6µH	645 008 2894
	5.6µH	645 016 3104
# LF601	Line Filter	645 012 0589
	Line Filter	645 026 8274
T131	SIF	645 027 6095
T151	45.75MHz Oscillator	645 027 6088
T401	Horizontal Drive	610 000 1138
	Horizontal Drive	610 223 1663
# T402 (4)	Horizontal Output	645 032 8978
	Horizontal Output	645 018 9579
# T601	Power	645 035 9910

For SAFETY use only equivalent replacement part.
 (1) Used in chassis G5G-2759S0 and 27590-00.
 (2) Used in chassis 27590-01.
 (3) Bonded part of CRT.
 (4) Screen and focus controls are part of T402.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
# A101 (1)	Tuner	645 032 5632	UHF/VHF, 1AV4F1BAM0210
A1901	Receiver	645 027 4213	Remote
# F601	Fuse	423 018 8101	4Amp, 125V Fast Acting
	Fuse	423 007 1601	4Amp, 125V Fast Acting
	Fuse	423 007 1809	4Amp, 125V Fast Acting
F601A, B	Fuse Holder	645 000 5077	For F601
	Fuse Holder	645 016 0479	For F601
K1001	Jack	645 032 1979	Assembly
K1003	Jack	645 032 2006	Assembly
# K701A	Socket	645 025 6103	CRT
# Q900 (3)	CRT	414 010 3409	A68AJB82X04
# Q900 (2)	CRT	414 009 7005	A68ADT25X03
# RL601	Relay	645 000 4155	Degaussing
	Relay	645 011 2713	Degaussing
	Relay	645 024 7828	Degaussing
	Relay	645 015 8629	Degaussing
	Relay	645 024 7767	Degaussing
SP901, 02	Speaker	645 028 0870	3" Square, 8 Ohms, 2W
SW1901	Switch	645 027 7382	Power
SW1902	Switch	645 027 7382	Volume Up
SW1903	Switch	645 027 7382	Volume Down
SW1904	Switch	645 027 7382	Channel Up
SW1905	Switch	645 027 7382	Channel Down
SW1906	Switch	645 027 7382	Menu
# W601	Line Cord	610 232 9803	AC, Polarized
X141	Filter	421 006 3206	SAW
X153	Filter	610 015 2946	4.5MHz
	Filter	645 030 1049	4.5MHz
X161	Trap	610 015 3059	4.5MHz
X251	Crystal	610 204 4195	3.58MHz
	Crystal	610 245 9746	3.58MHz
	Crystal	610 012 0655	3.58MHz
X401	Crystal	645 020 9147	507.5kHz
X801	Crystal	645 000 6692	8MHz
	Crystal	645 021 5483	8MHz
	PC Board	610 276 0118	A/V
	PC Board	610 275 9815	CRT
	PC Board (2)	610 278 0857	Main
	PC Board (3)	610 278 0840	Main
	Transmitter	645 032 6127	Remote
	Transmitter	645 032 6066	Remote

For SAFETY use only equivalent replacement part.
 (1) Contact TNI Electronics for replacement; order by manufacturer's part number.
 (2) Used in chassis G5G-2759S0 and 27590-00.
 (3) Used in chassis 27590-01.

CABINET PARTS

Item	Mfr. Part No.
Chassis G5G-2759S0	
Badge (SANYO)	610 236 9274
Button Unit	610 257 8614
Cabinet Front Assembly	610 278 9713
Cabinet Rear	610 271 5576
Dec AV Sheet	610 279 0870
Dec Sheet	610 272 7364
Chassis 27590-00	
Badge (SANYO)	610 236 9274
Button Unit	610 257 8614
Cabinet Front	610 271 5569
Cabinet Rear	610 271 5576
Dec AV Sheet	610 279 0870
Dec Sheet	610 272 7364
Chassis 27590-01	
Badge (SANYO)	610 236 9274
Button Unit	610 257 8614
Cabinet Front	610 277 9417
Cabinet Rear	610 277 9424
Dec AV Sheet	610 279 0870
Dec Sheet	610 272 7364
Remote Transmitter	
Battery Cover	610 271 7112
Battery Cover	610 271 7143

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