

SAFETY PRECAUTIONS

SERVICE WARNING

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

SERVICING THE HIGH VOLTAGE AND CRT

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

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

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

GENERAL GUIDELINES

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

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

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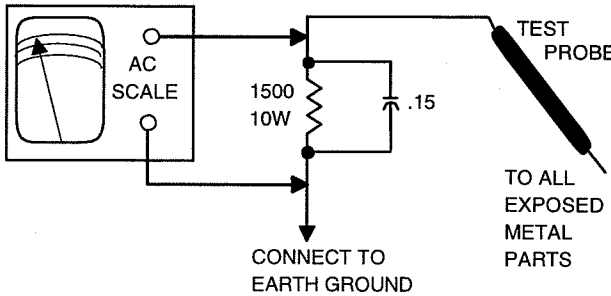
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



HIGH VOLTAGE SHUTDOWN TEST

Momentarily short BC14901 (see base of Q14901) to ground. 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 approximately 30 seconds and then turn the receiver on.



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PHOTOFACT® Technical Service Data

SET 4336

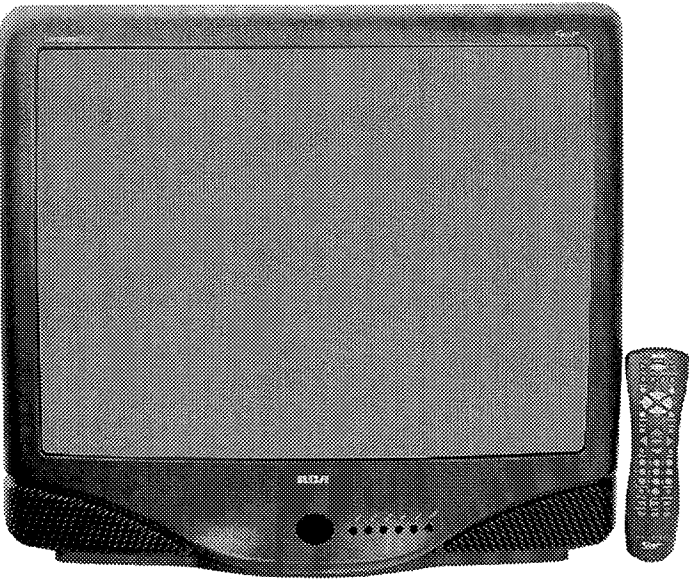
MODEL F26645YX1 (CHASSIS CTC203AX)

RCA

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RCA
Model F26645YX1 (Chassis CTC203AX)

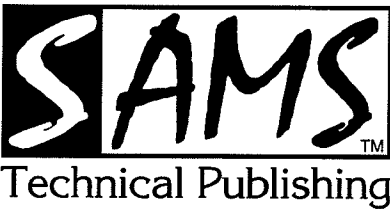


Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

MODEL	CHASSIS
F27645YX1	CTC203AX
G27646YX1	CTC203AX
G27647YX1	CTC203AX



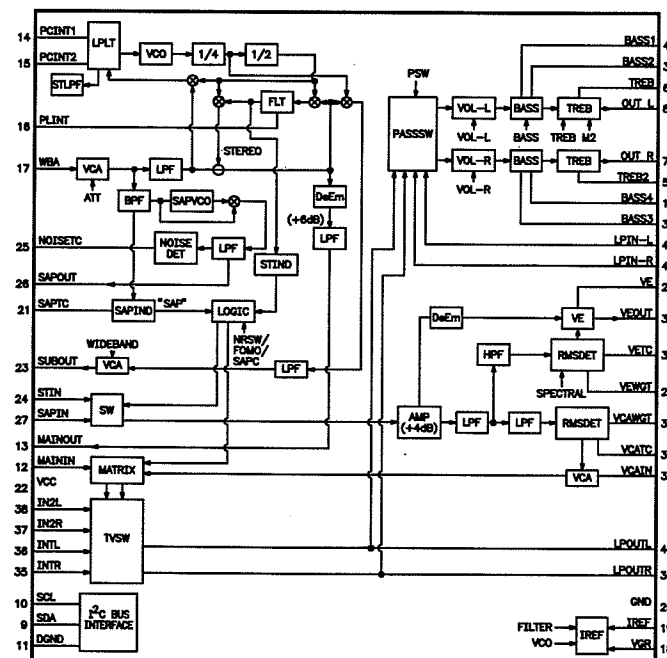
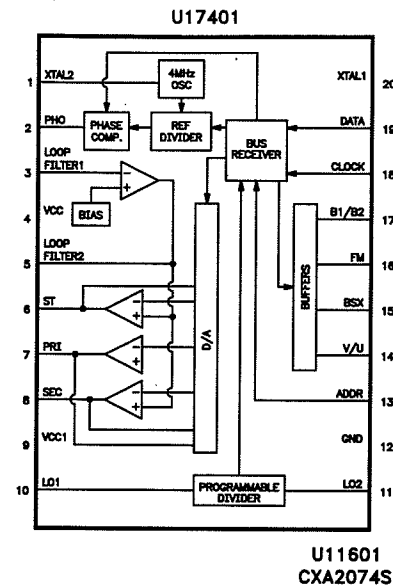
AUGUST 2000 SET 4336

TUNER CIRCUIT VOLTAGE CHART

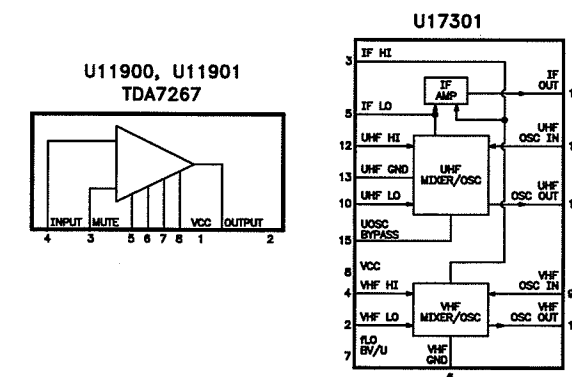
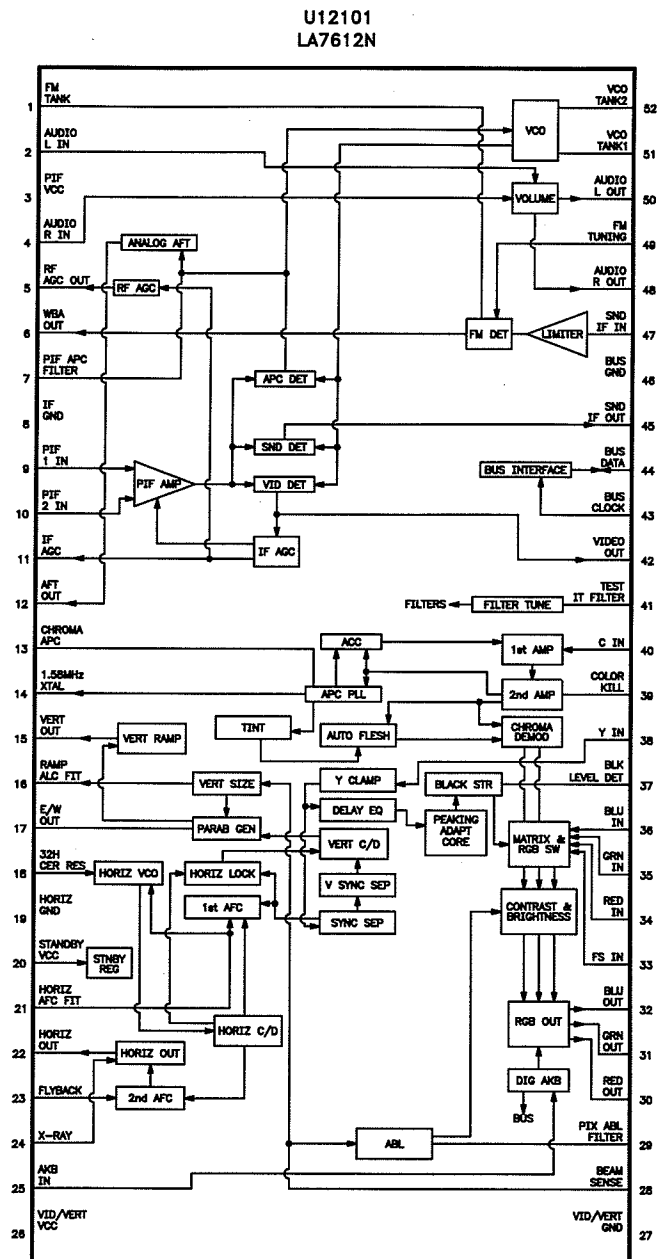
Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band
U17301				U17401				Q17101			
1	4.9V	4.8V	4.8V	1	1.8V	1.8V	1.9V	G1	0V	0V	1.8V
2	3.1V	3.1V	3.1V	2	2.6V	2.6V	2.6V	G2	5.1V	5.1V	5.1V
3	7.6V	7.6V	7.5V	3	0V	0V	2.6V	D	0V	0V	11.5V
4	3.1V	3.1V	3.1V	4	34.0V	34.0V	34.0V	S	0V	0V	0V
5	7.6V	7.6V	7.5V	5	2.3V	4.4V	4.8V	Q17102			
6	0V	0V	0V	6	1.6V	4.8V	4.9V	G1	1.8V	1.8V	0V
7	6.4V	6.3V	.2V	7	1.8V	4.4V	4.8V	G2	5.3V	5.3V	5.3V
8	9.2V	9.2V	9.2V	8	2.1V	5.1V	4.3V	D	11.7V	11.6V	0V
9	3.4V	3.4V	3.4V	9	5.0V	5.0V	5.0V	S	0V	0V	0V
10	3.2V	3.2V	3.0V	10	1.5V	1.5V	1.5V	Q17402			
11	7.2V	6.8V	9.2V	11	1.5V	1.5V	1.5V	E	12.0V	12.0V	12.0V
12	3.2V	3.2V	3.0V	12	0V	0V	0V	B	11.7V	11.0V	11.7V
13	0V	0V	0V	13	1.2V	1.2V	1.2V	C	-11.3V	-11.6V	-11.1V
14	9.3V	9.2V	6.4V	14	11.1V	11.1V	.3V	Q17403			
15	3.5V	3.5V	3.2V	15	0V	0V	3.9V	E	12.0V	12.0V	12.0V
16	3.5V	3.5V	3.2V	16	3.9V	3.9V	3.9V	B	.5V	.6V	11.4V
				17	11.7V	11.7V	11.7V	C	11.8V	11.6V	.1V
				18	4.9V	4.9V	4.9V	Q17404			
				19	4.9V	4.9V	4.9V	E	12.0V	12.0V	12.0V
				20	0V	0V	0V	B	11.8V	11.7V	11.0V
								C	.5V	.6V	11.4V

NOTE: Voltages taken with signal.
VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.

NOTE: Voltages taken with signal.
VHF Low Band voltages taken on channel 2.
VHF High Band voltages taken on channel 7.
UHF Band voltages taken on channel 14.



IC FUNCTIONS



MISCELLANEOUS ADJUSTMENTS

NOTE: All procedures require an antenna connected and power applied to the set.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to the CRT anode. High voltage should measure 25.5kV to 27.5kV.

SERVICE MENU

The following adjustment procedures are accessed thru a service menu. To access the service menu, turn the receiver on, press the menu button and hold it down while pressing the power button. While holding down the menu button, release the power button and press the volume + button. The screen will display a one line menu, on the left the parameter P0, and on the right the value of that parameter V0. Release buttons. Adjustments are made by selecting the proper parameter and changing the value of that parameter. To change the parameter number use channel up and down buttons. To adjust the current value of that parameter use volume + and - buttons. To access and change any of the adjustments, the proper parameter pass number must be entered. This information is listed at the beginning of the alignment. When these parameters are modified, the T-Chip and the corresponding EEPROM are updated. All service adjustments are bus controlled, except focus and screen.

NOTE: In order to adjust the RF AGC, audio or video levels, tuner, PIP, or stereo circuits, the ChipperCheck hardware and software must be used. This can be purchased from Thomson.

SERVICE ADJUSTMENT PARAMETERS

Parameter No.	Parameter Name	On Set Value	Value Range	Comment
0	Pass number for service adjustment parameters.		Must set to 76	May not advance until value is set.
1	Error Code 1	0	0 - 255	Displays the first error detected. Set to 0 before exiting. See "Error Codes Chart".
2	Error Code 2	0	0 - 255	Displays the second error detected. Set to 0 before exiting. See "Error Codes Chart".
3	Error Code 3	0	0 - 255	Displays the last error detected. Set to 0 before exiting. See "Error Codes Chart".
4	Horizontal Phase	8	0 - 15	Set value to 8.
5	EW DC (Width)	12	0 - 31	Adjust for slight horizontal overscan.
6	EW Amplitude	8	0 - 15	Set value to 8.
7	EW Tilt	8	0 - 15	Set value to 8.
8	Top Corner Pin Correction	2	0 - 7	Set value to 2.
9	Bottom Corner Pin Correction	2	0 - 7	Set value to 2.
10	Vertical DC	33	0 - 63	Adjust to center vertically.
11	Vertical Size	73	0 - 127	Adjust for slight vertical overscan.
12	Vertical Countdown Mode	0	0 - 3	Set value to 0. (0 = Standard, 1 = Non-Standard, 2 = 50Hz, 3 = 48Hz)
13	Red Bias	25	0 - 127	Press menu button on the TV set for setup line.
14	Green Bias	5	0 - 127	Press menu button on the TV set for setup line.
15	Blue Bias	23	0 - 127	Press menu button on the TV set for setup line.
16	Red Drive	43	0 - 63	Press menu button on the TV set for setup line.
17	Green Drive	32	0 - 63	Press menu button on the TV set for setup line.
18	Blue Drive	31	0 - 63	Press menu button on the TV set for setup line.
19	Gemstar Horizontal OSD Position	21	0 - 255	Set value to 21.
20	Gemstar Vertical OSD Position	33	0 - 255	Set value to 33.
21	Gemstar PIP Horizontal Position	40	0 - 255	Set value to 40.
22	Gemstar PIP Vertical Position	43	0 - 255	Set value to 43.
23	Gemstar PIP Window Vertical Size	3	0 - 13	Set value to 3.

COLOR TEMPERATURE

NOTE: See Service Adjustment Parameters to change drive and bias values.

Press menu button for collapsed raster service line. Disconnect the antenna. Preset the red, green, and blue drive values to 32. Adjust screen control for a service line that is just visible. Adjust red, green, and blue drives to obtain a white raster. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance.

ERROR CODES CHART

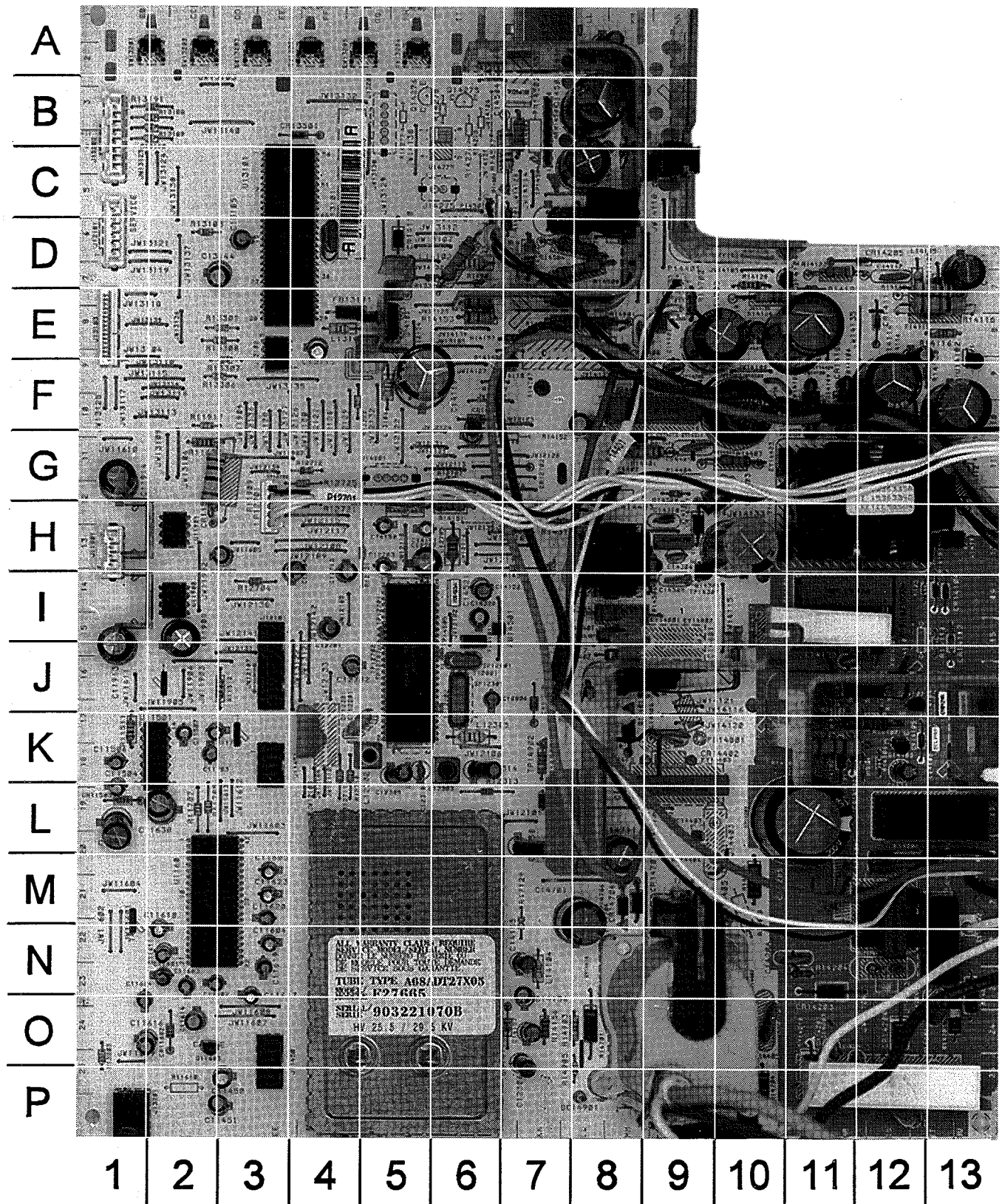
Error Code		Error Location	Condition Indicated
DEC	HEX		
0	00	No error code	
1	01	Detected by U13101	16.0V STBY source is failing.
3	03	Detected by U13101	12.0V source is failing.
8	08	U12101	X-ray protection caused high voltage shutdown.
9	09	U12101	Power supply problem at reset/U12101.
10	0A	PIP module error	Power supply problem at reset/PIP.
11	0B	Stereo decoder	Power supply problem at reset/Stereo decoder.
16	10	Detected by U13101	U13101 run IIC clock or data held low.
18	12	Detected by U13101	U13101 standby IIC clock or data held low.
34	22	Gemstar Board	Gemstar fails to acknowledge.
44	2C	U18100	F2PIP fails to acknowledge.
102	66	Octal DAC	Octal DAC fails to acknowledge.
128	80	Stereo decoder	Stereo decoder fails to acknowledge.
160	A0	Main or PIP tuner EEPROM	Main or PIP tuner EEPROM fails to acknowledge.
186	BA	U12101	U12101 fails to acknowledge.
196	C4	Main tuner PLL/DAC	Main tuner PLL IC fails to acknowledge.
198	C6	Main tuner PLL/DAC	Main tuner DAC IC fails to acknowledge.

ERROR CODES

If certain failures occur, the matching error codes will be stored in the EEPROM. These error codes will be displayed in parameters "1", "2", and "3". The first failure error code will be stored at parameter "1", and the second failure error code in parameter "2". Parameter "3" will be updated to display the most recent failure occurred in the chassis. If a failure of a bus IC occurred, the normal acknowledgment

checking of that bus will be disabled in the service mode and the address of that IC which failed will be stored in one of the error code parameters. After every repair is done to the chassis it is recommended to check the error code parameters, and reset them back to value "0".

MAIN BOARD



MAIN BOARD, GRIDTRACE LOCATION GUIDE

BC14901	P8	C12713	I4	C14203	O11	CR14501	C8	R11504*	K3	R12705*	J5	R13154*	B2	R14117	I11	SG13208*	A5
C11450	P3	C12714*	H4	C14204	O12	CR14701	M8	R11505*	K1	R12706*	I5	R13161*	C3	R14118	E13	SG13209*	A4
C11451	P3	C12715*	H4	C14205	L11	CR14702	F9	R11506*	L3	R12707*	I5	R13162*	C2	R14119	D13	SG14201	N13
C11455*	O3	C12716*	I4	C14206	N11	CR14704	M8	R11507*	K1	R12708*	I5	R13165*	D3	R14120	D10	SG14701*	P9
C11456*	O3	C12717*	J5	C14207	P12	CR14901	E8	R11508*	K2	R12710	K4	R13166*	C3	R14121*	D11	SG14702*	K8
C11501*	K3	C12718*	J5	C14208	O13	CR14902	J7	R11509*	L1	R12711	K4	R13167*	D4	R14122	D11	SW13201	A1
C11502*	K3	C12801*	J5	C14302*	H9	F14201	M12	R11510*	L1	R12712	G4	R13168*	D4	R14123	D11	SW13202	A2
C11503*	L1	C12802*	J5	C14303*	H9	FB13101	E4	R11511	K1	R12713*	G4	R13169*	C3	R14124	E10	SW13203	A3
C11504	L1	C12803*	J6	C14304	H9	FB14106	F11	R11512	J3	R12714*	I4	R13170*	C4	R14126*	F13	SW13204	A4
C11506	K1	C12805*	J5	C14305	I9	FB14107	F11	R11513*	H3	R12715*	H4	R13171*	F4	R14127*	E11	SW13205	A5
C11507	K2	C12806	J6	C14306	H9	FB14108	F11	R11514*	G3	R12716*	H4	R13175*	D3	R14128*	E10	SW13206	A5
C11601	N2	C12807*	J5	C14309*	H9	FB14109	I12	R11601*	N2	R12717	G4	R13176*	F4	R14129*	H13	T14101	G12
C11602	N2	C13102*	D2	C14310	H9	FB14110*	M7	R11602*	M3	R12718*	H3	R13181*	D3	R14130	F12	T14201	M12
C11603	N2	C13103*	D2	C14320	I6	FB14111	N7	R11603*	N3	R12719*	H5	R13182*	D5	R14151	H6	T14301	H8
C11604	N3	C13104*	E4	C14321*	I5	FB14114	F11	R11604*	N3	R12720*	H5	R13183*	D5	R14153	E6	T14401	O9
C11605	M3	C13105	D3	C14322*	I6	FB14401	K8	R11605*	N2	R12721	H4	R13184*	D3	R14156	O7	TP14902	K7
C11606*	N3	C13106*	D4	C14401*	J8	FB14501	I6	R11606*	M2	R12722*	H3	R13185*	D3	R14157	E7	U11501	K2
C11607*	M3	C13107*	D4	C14402	L9	IR13201	A7	R11607*	M2	R12723*	I4	R13186*	D3	R14158	E7	U11601	L2
C11608*	N2	C13108*	C2	C14403	F9	J11450	O3	R11608*	M2	R12724*	I4	R13188	B2	R14159	F6	U11602*	M2
C11609*	N2	C13109*	C2	C14404	F8	J11451	K3	R11609*	M2	R12725	G4	R13189	B2	R14201	N13	U11900	I2
C11610*	N2	C13110*	C2	C14405	G9	J11901	H1	R11611*	M2	R12726	I5	R13190	B2	R14202	P12	U11901	H2
C11611	N2	C13111*	C2	C14406	K9	J12101	I3	R11612*	M2	R12727*	H3	R13191	B2	R14204	N11	U12101	K5
C11612*	N2	C13113*	E4	C14502	B8	J13101	D1	R11613*	M1	R12731	H5	R13194*	D1	R14205	O13	U13101	C3
C11613*	M2	C13114*	E2	C14504	B7	J13103	E1	R11614*	M2	R12801*	J5	R13195*	D1	R14206*	D8	U13102	E3
C11614	O2	C13115	E4	C14505	C7	J13201	P1	R11615*	N3	R12802*	J5	R13196*	D3	R14286*	C5	U14101	H13
C11615*	N3	C13119*	F3	C14506	C8	J13202	C1	R11616*	N2	R12803*	J6	R13197*	D3	R14287*	C5	U14102	F13
C11616	O1	C13129*	C5	C14507*	C8	J14203	N12	R11617*	N2	R12804*	J4	R13198*	D4	R14303	H7	U14103	E5
C11617	O3	C13141*	C4	C14521	I6	K14201	L13	R11618*	O2	R12805*	J5	R13199*	D1	R14304*	H9	U14104	C9
C11618	N2	C13144	D2	C14701	M8	L12302	K5	R11619*	N2	R12806*	J6	R13201	A6	R14305	I8	U14150	H5
C11619	N3	C13163*	F5	C14702*	M8	L12303	K6	R11620*	N2	R12807*	K6	R13202*	A6	R14306	H9	U14501	C8
C11620	M3	C13165*	D2	C14703	E10	L12305	K6	R11621*	M2	R12808*	J6	R13203	O1	R14309	G9	Y12801	J6
C11621*	M2	C13169*	D4	C14704	F9	L12705	H6	R11622*	M2	R13101*	D2	R13205*	B4	R14310	H7	Y13101	D4
C11622*	M2	C13170*	B4	C14706*	M8	L13105	E4	R11623*	M1	R13102*	D2	R13207*	C4	R14318	D7	Y14101	I6
C11623	M3	C13201*	A8	C14710	O10	L13106	F5	R11624*	M1	R13103	D2	R13301*	E4	R14319	D6		
C11624	O1	C13202	A8	C14711	L8	L14102	D6	R11625*	M1	R13104*	D2	R13302*	E4	R14320*	I6		
C11625*	M2	C13301*	E4	C14901	E8	L14103	G10	R11626*	L2	R13105*	D3	R13306	F3	R14321*	I6		
C11626*	M2	C13302*	E4	C14902	E9	L14104	N7	R11627	G2	R13106*	D2	R13307	E3	R14322*	I6		
C11627*	M2	C13312*	E4	C14903*	I5	L14105	D12	R11701*	K2	R13107*	D4	R13308	E3	R14323*	I6		
C11628	L1	C13501*	B4	C14904*	K7	L14401	I8	R11702*	L2	R13108*	E2	R13309	E3	R14324*	I6		
C11629*	M2	C13502*	B4	C17109*	N6	L14402	F10	R11703*	K2	R13109*	E2	R13310*	F2	R14326*	I6		
C11630	L2	C13503*	C4	C17416*	L5	P12701	H3	R11704*	K2	R13110*	E2	R13311*	F2	R14327*	I6		
C11631*	L1	C13504*	C4	C17417*	L5	P14401	D9	R11705	L2	R13111*	E2	R13312*	F2	R14401	G8		
C11701*	K3	C14101	K12	CF12201	K5	P14501	C6	R11706*	K3	R13112*	E3	R13313*	E2	R14402	J8		
C11702*	K2	C14102	I11	CF12301	K4	Q11501*	H3	R11707	L2	R13113*	C3	R13314*	E5	R14403	G10		
C11703	K2	C14103*	K12	CR11501*	K2	Q11603	O2	R11708*	K2	R13114*	C3	R13315*	D5	R14501	C7		
C11704*	K3	C14104	J13	CR11502*	K1	Q11901*	J1	R11709*	K2	R13115*	C3	R13316*	D4	R14503	B7		
C11705	K2	C14105	K13	CR11503	L1	Q12301*	K4	R11909	G2	R13116*	C3	R13317*	E5	R14504	D7		
C11906*	I2	C14106*	H12	CR11504	H2	Q12701*	H4	R11910*	I2	R13117*	C3	R13318*	D5	R14506	D7		
C11907*	H2	C14107*	F13	CR11505*	J3	Q12702*	G4	R11911*	I2	R13118*	C3	R13319*	D5	R14507	C7		
C11908	I2	C14108*	I12	CR11601*	M1	Q12703*	I4	R11912*	H2	R13119*	C4	R13320	D5	R14508	D6		
C11909	H3	C14109	F11	CR11602	O2	Q12704*	G5	R11913*	H2	R13120*	C3	R13321*	E5	R14509	D8		
C11910*	I2	C14110	E11	CR11603*	N2	Q13101*	D3	R11915*	K1	R13121*	D5	R13322	F4	R14520*	J5		
C11912*	H2	C14111	D13	CR12301*	K5	Q13102*	D3	R11917	F2	R13122*	D4	R13323*	E1	R14701	O8		
C11913	J1	C14112	D12	CR12702	G7	Q13103*	E3	R11918*	J1	R13123*	D4	R13501*	C4	R14702	E9		
C11914	G1	C14113	F11	CR13501	B4	Q13104*	F4	R11919*	J1	R13124*	C5	R13503*	B4	R14703	E8		
C12301*	J6	C14114	F12	CR14101	K11	Q13301*	D4	R11920*	I1	R13126*	C3	R13504*	C4	R14704	P10		
C12302*	J5	C14115	F12	CR14102	K11	Q13501*	C4	R11921*	H1	R13127*	C4	R13505*	C4	R14705	M10		
C12303*	J4	C14116	E12	CR14103	I13	Q13503*	C4	R12201*	K4	R13128*	F4	R13507*	C4	R14706	G6		
C12304*	K6	C14118	E10	CR14104	I13	Q14101	J12	R12302*	K6	R13130*	C3	R13508*	C4	R14801*	J5		
C12305	K5	C14119	F5	CR14105	K12	Q14102	J12	R12303*	J5	R13131*	C3	R13510*	C4	R14901	E7		
C12306	P7	C14121	F13	CR14106	F11	Q14103	K12	R12304*	J4	R13132*	D4	R13511*	C4	R14902	K7		
C12307*	K5	C14122	H10	CR14107	D13	Q14104	D10	R12305*	K4	R13134*	E4	R13512*	D4	R14903	O8		
C12308*	K5	C14123*	E11	CR14108	F11	Q14105*	D11	R12306*	K6	R13135*	E4	R14101	K11	R14904	G7		
C12310	K5	C14124	F11	CR14109	F12	Q14106*	E13	R12307*	K5	R13136*	F3	R14102	K11	R14905	P8		
C12312*	K5	C14125	J11	CR14110	D5	Q14107*	E12	R12308*	L5	R13137*	B2	R14103	K11	R14906*	K7		
C12313*	J5	C14150	H5	CR14111	E12	Q14115	E7	R12309*	K6	R13138*	E3	R14104	K12	R14909*	L7		
C12314	K6	C14151	H5	CR14113*	P3	Q14201*	D8	R12310*	K4	R13139*	E3	R14105	I12	R17402*	L5		
C12701	I4	C14152	I6	CR14114*	P3	Q14301	H9	R12311*	K4	R13140*	B2	R14106	K12	R17403*	L5		
C12702	J4	C14153*	I5	CR14115	F6	Q14302*	G9	R12313	L6	R13141*	E3	R14107	K12	RN14501	C7		
C12703	H5	C14154*	G6	CR14116	I7	Q14401	J9	R12314*	K5	R13142*	E3	R14108	K12	RT14201	M11		
C12704	I4	C14155	N7	CR14117	O3	Q14901	L7	R12315*	K5	R13143*	D4	R14109	J12	SF12301	J6		
C12706	F6	C14156	N7	CR14201	P11	R11460*	N3	R12316*	K5	R13144*	D4	R14110	I12	SG13201*	A2		
C12707	H5	C14157	O7	CR14202	P11	R11461*	O3	R12317*	K4	R13145*	D4	R14111	I13	SG13202*	A2		
C12708*	J5	C14158	L7	CR14203	N11	R11462*	P3	R12318*	K4	R13147*	B3	R14112*	H12	SG13203*	A2		
C12709*	J5	C14159*	M7	CR14204	O12	R11463*	P3	R12701*	J4	R13148*	C3	R14113	F12	SG13204*	A3		
C12710*	J5	C14160*	M7	CR14205	D12	R11501*	K3	R12702	G6	R13150*	D4	R14114*	F13	SG13205*	A3		
C12711*	J4	C14161*	L6	CR14301	H9	R11502*	L3	R12703*	J4	R13151*	B2	R14115	E13	SG13206*	A4		
C12712*	H3	C14201	N13	CR14401	G8	R11503*	K2	R12704	I3	R13152*	C4	R14116	E13	SG13207*	A3		

RCA

MODEL F26645YX1 (CHASSIS CTC203AX)

* On bottom of board


A.




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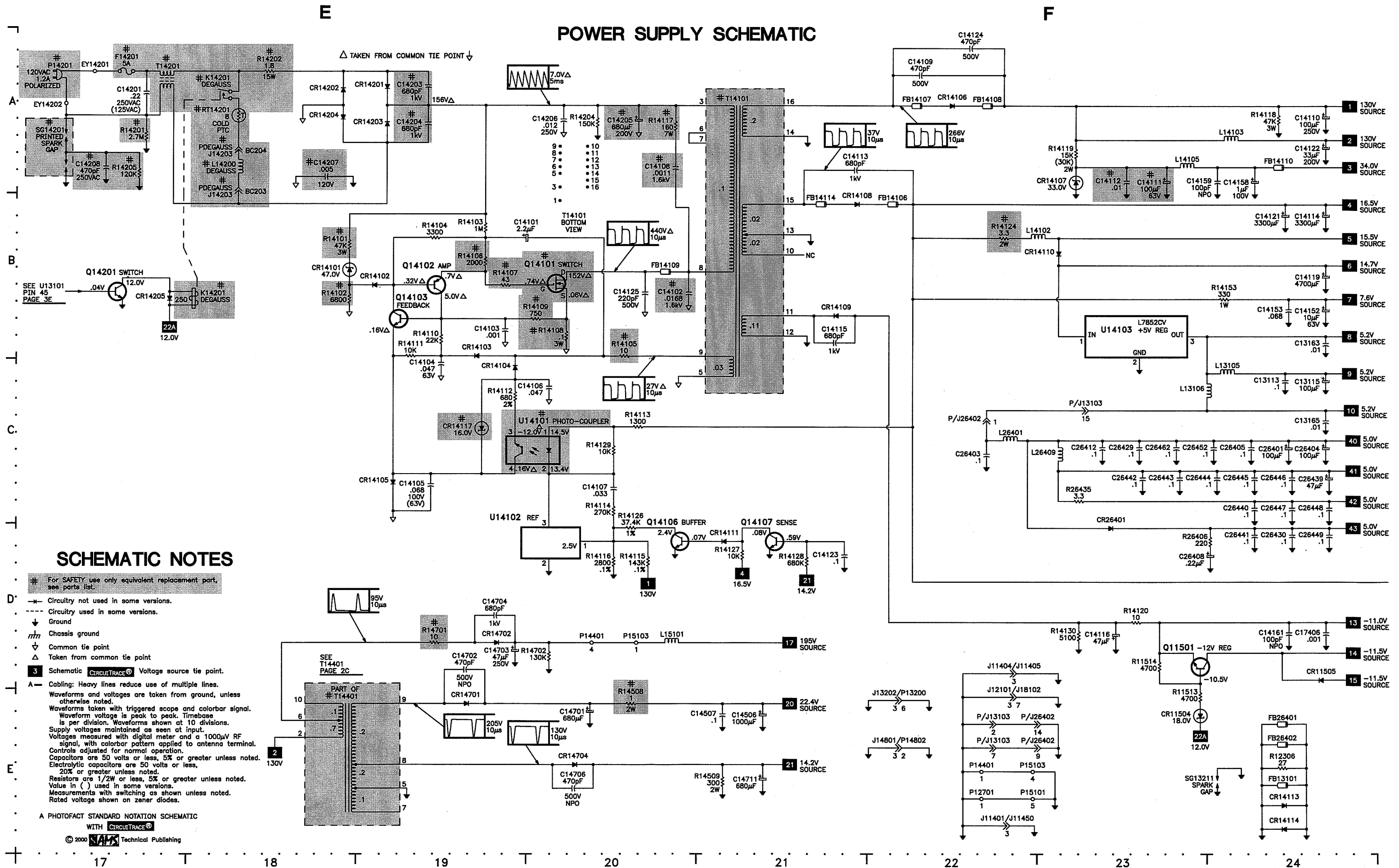
ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E

**ADDITIONAL SCHEMATIC
 NOTES, SEE PAGE 2E**

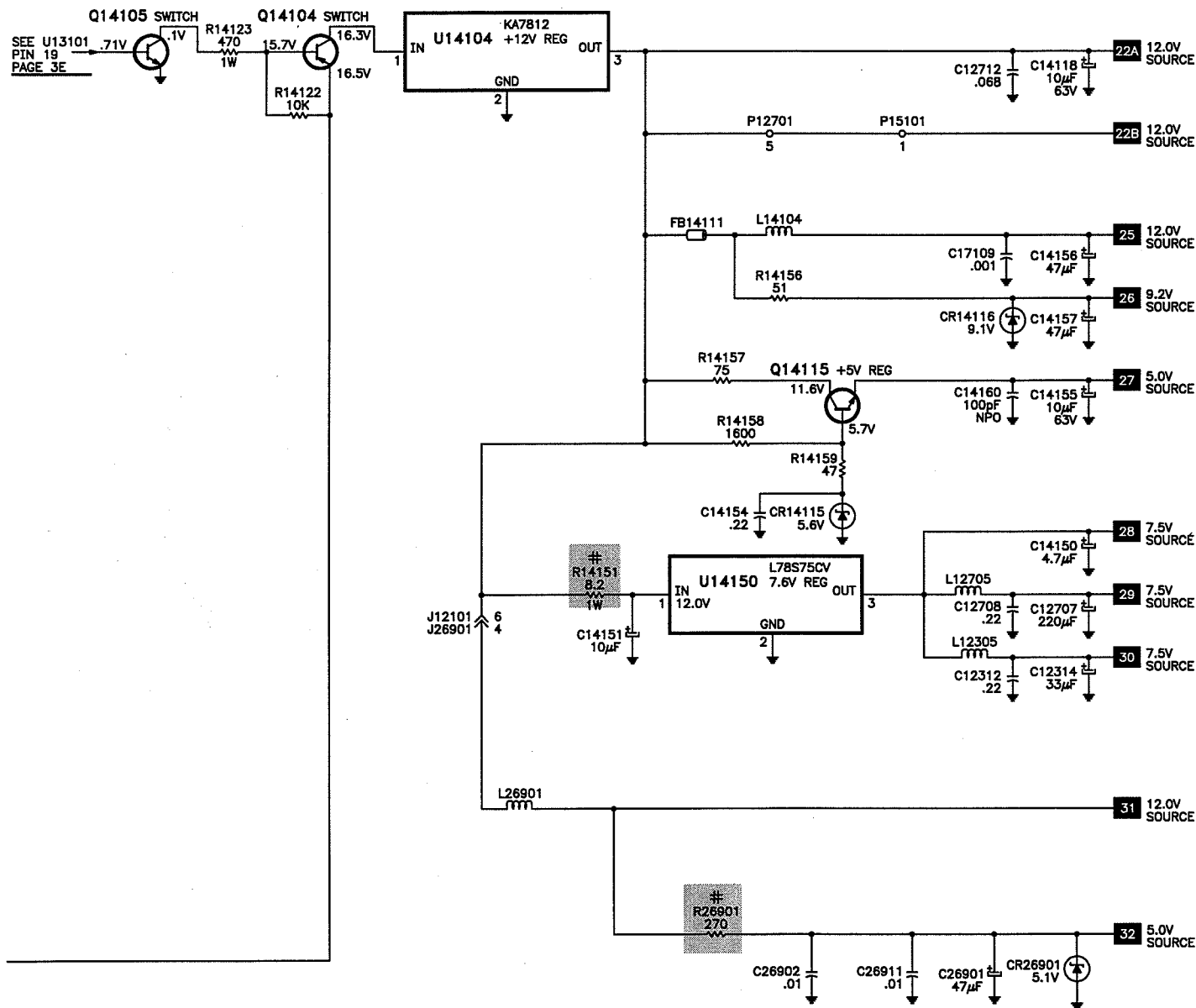
**A PHOTOFACT STANDARD NOTATION SCHEMATIC
 WITH **

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POWER SUPPLY SCHEMATIC



G
POWER SUPPLY SCHEMATIC continued



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2E
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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)

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

A.



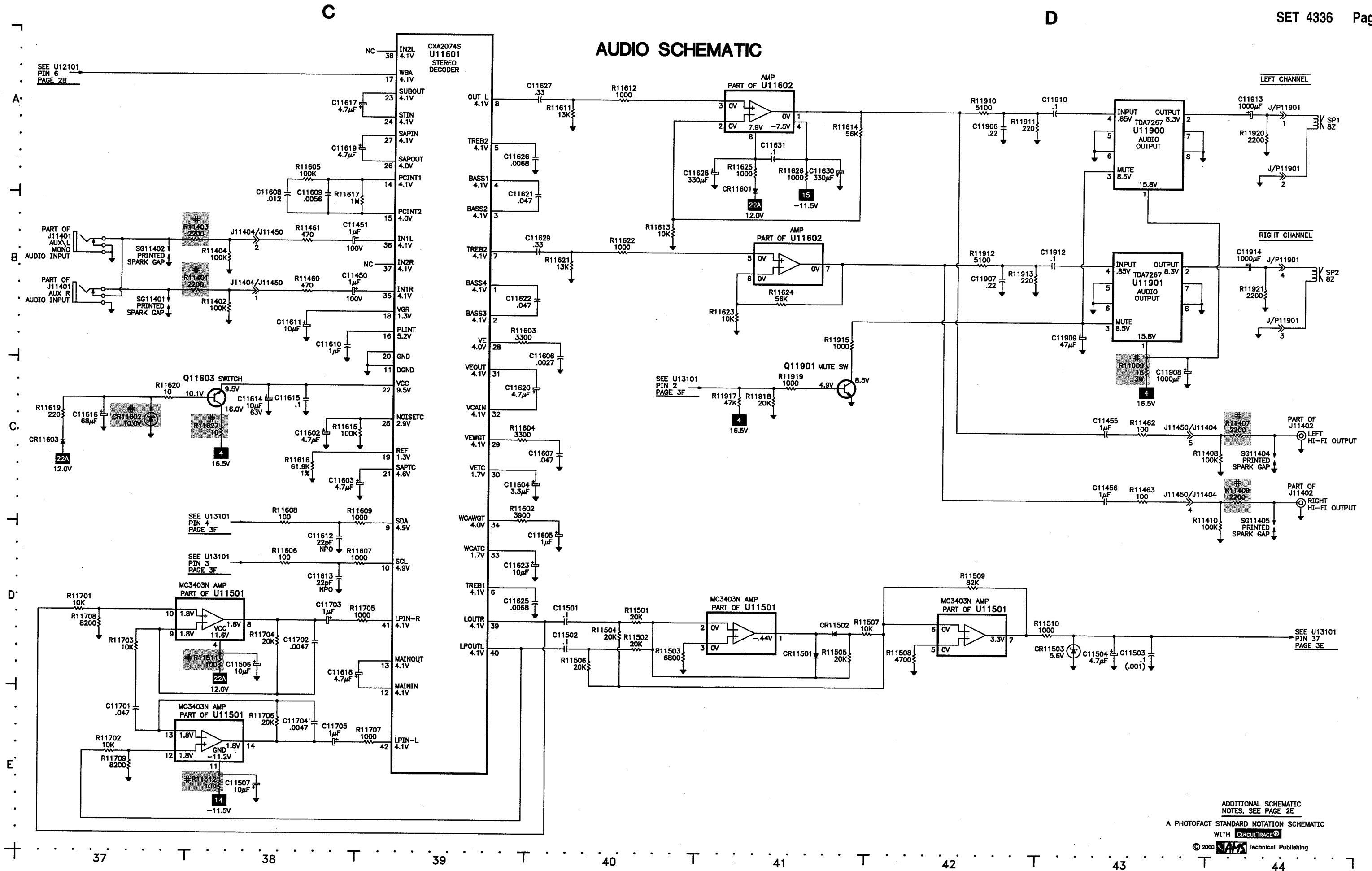
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A PHOTOFAC STANDARD NOTATION SCHEMATIC

E.

AUDIO SCHEMATIC



E



G

H



MODEL F26645YX1 (CHASSIS CTC203AX)

A

B

GEMSTAR 3 SCHEMATIC

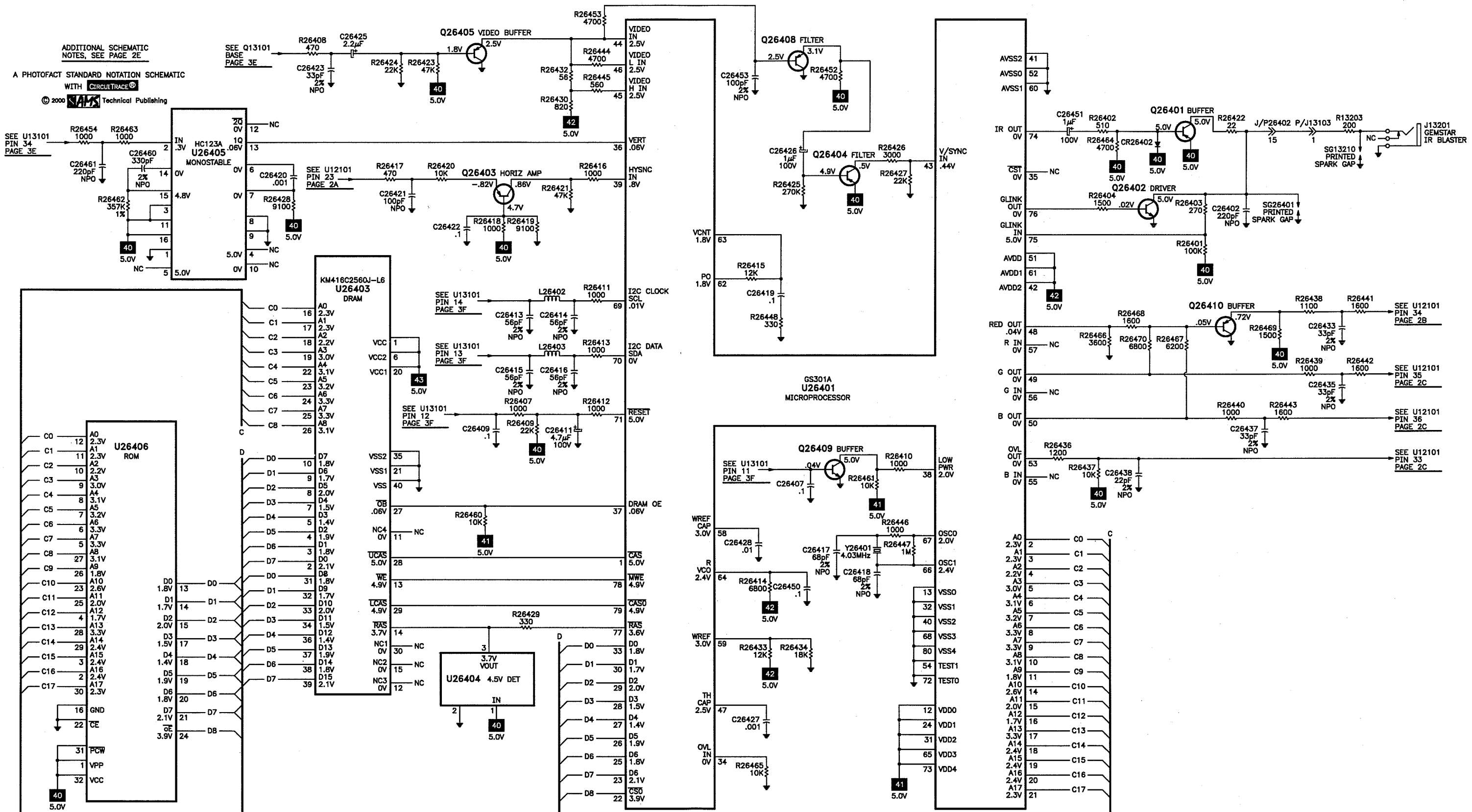
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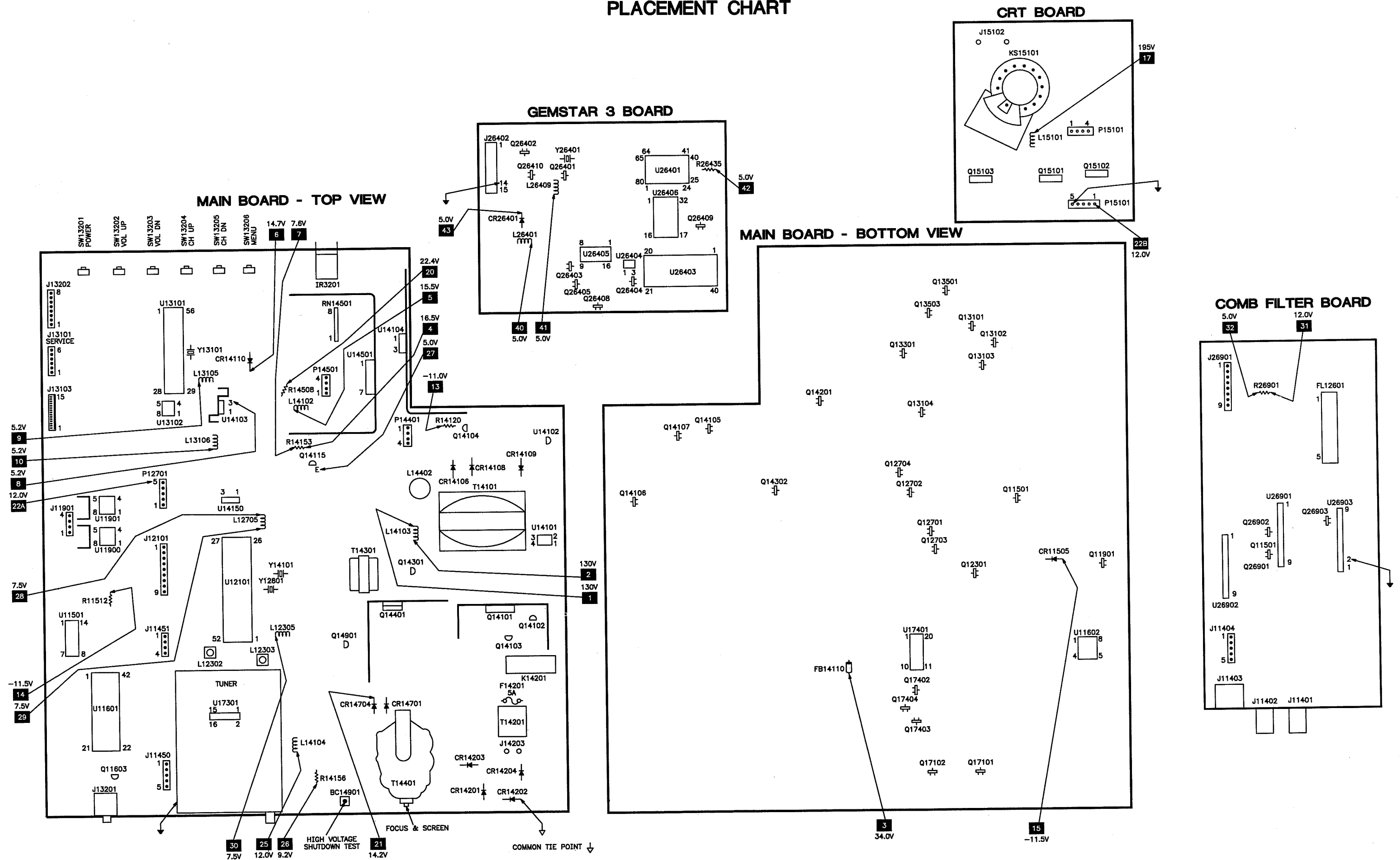
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D

E



PLACEMENT CHART



SCHEMATIC COMPONENT LOCATION GUIDE

C11401	E31	C12310	B4	C14108	A20	C14903	D3	C17404	E60	C26906	E33	CR17303	D59	L17304	D59	R11411	E31	R11920	A44	R13112	D46	R13203	B68	R14159	B27	R17114	C54	R26417	B63	R5050	D12
C11402	D31	C12312	C28	C14109	A22	C14904	D3	C17405	E59	C26907	B33	CR17304	C59	L17305	D59	R11412	E31	R11921	B44	R13113	C46	R13205	E49	R14201	A17	R17115	B57	R26418	B63	RN14501	D5
C11403	B29	C12313	C3	C14110	A24	C15101	D15	C17406	D24	C26908	B33	CR26401	D23	L17306	C60	R11413	D31	R12201	A3	R13114	B46	R13207	E49	R14202	A18	R17119	B55	R26419	B63	RT14201	A18
C11450	B38	C12314	C28	C14111	B23	C17102	B55	C17407	E58	C26911	D27	CR26402	B67	L26401	C22	R11414	D31	R12302	B2	R13115	C46	R13301	E49	R14204	A20	R17122	B57	R26420	B63	SF12301	B1
C11451	B38	C12601	B32	C14112	B23	C17103	B55	C17408	E57	C26915	B29	CR26901	D28	L26402	C63	R11460	B38	R12303	B1	R13116	B46	R13302	A49	R14205	A17	R17123	B56	R26421	B64	SP1	A44
C11455	C43	C12602	B32	C14113	B21	C17104	B58	C17409	D56	C26916	C30	DY1	D9	L26403	C63	R11461	B38	R12304	B4	R13117	B46	R13306	A47	R14206	A48	R17124	B56	R26422	B67	SP2	B44
C11456	C43	C12701	A7	C14114	B24	C17105	A56	C17410	E54	CF12201	A3	F14201	A17	L26409	C23	R11462	C43	R12305	D45	R13118	B47	R13307	B47	R14286	C48	R17125	C56	R26423	A63	SW13201	B45
C11501	D40	C12702	C10	C14115	C21	C17106	B56	C17411	E54	CF12301	B4	FB13101	E24	L26901	C26	R11463	C43	R12306	E24	R13119	B47	R13308	B47	R14287	C48	R17127	C57	R26424	A63	SW13202	B45
C11502	D40	C12703	C10	C14116	D23	C17107	C54	C17412	E56	CR11402	E32	FB14106	B22	P14201	A17	R11501	D40	R12307	B5	R13120	A47	R13309	B47	R14303	D1	R17128	B57	R26425	B65	SW13203	B45
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C11601	A5	C12709	B8	C14123	D21	C17112	C57	C26401	C24	CR11504	E23	FB14111	B27	Q12701	C13	R11506	D40	R12313	C2	R13126	B47	R13314	E46	R14310	E4	R17138	C54	R26430	A64	T14201	A17
C11602	C38	C12710	B9	C14124	A22	C17113	C55	C26402	B67	CR11505	E24	FB14114	B21	Q12702	A13	R11507	D41	R12314	C2	R13127	E48	R13315	D45	R14318	E1	R17141	C54	R26432	A64	T14301	E7
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C11611	B38	C12801	C8	C14157	B28	C17125	C56	C26412	C23	CR14102	B19	J11401	C29	Q13503	D48	R11602	D39	R12704	A7	R13138	A51	R13501	E48	R14401	D10	R17302	B60	R26441	C68	U11602	B41
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C11619	A38	C13104	E47	C14205	A20	C17136	B53	C26420	B62	CR14110	B23	L12302	B3	Q14115	B27	R11611	A40	R12713	B12	R13147	E51	R13512	D47	R14508	E20	R17313	D59	R26452	A65	U13102	A52
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C11622	B40	C13107	D49	C14208	A17	C17140	C53	C26423	A62	CR14114	E24	L12705	C27	Q14302	E5	R11614	A41	R12716	C13	R13151	C51	R14103	B19	R14701	D19	R17317	A60	R26460	D63	U14103	B23
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C11625	D40	C13110	B46	C14304	E6	C17145	B57	C26427	E65	CR14117	C19	L14102	B22	Q15101	A14	R11617	B38	R12719	A13	R13161	D50	R14106	B19	R14704	E3	R17403	E53	R26463	B61	U14501	D7
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C11628	A41	C13114	D46	C14309	E5	C17150	B53	C26430	D24	CR14203	A19	L14105	A23	Q17101	B55	R11620	C37	R12722	A13	R13166	B50	R14109	B19	R14801	D4	R17406	E54	R26466	C66	U26401	C65
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C11631	A41	C13129	B49	C14321	D2	C17153	B53	C26437	C67	CR14301	E5	L14402	D9	Q17403	C55	R11623	B41	R12725	B13	R13169	C51	R14112	C19	R14903	E2	R17410	D55	R26469	C67	U26405	B62
C11701	E37	C13141	D49	C14322	E4	C17301	A57	C26438	C67	CR14401	D10	L15101	D20	Q17404	D56	R11624	B41	R12													

PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.
CR11402, 03	-	220638	ECG5014A
CR11501, 02	-	232709	-
CR11503	-	215488	ECG136A
CR11504	-	226463	-
CR11505	-	232709	-
CR11601	-	232709	-
# CR11602	-	159429	ECG5019T1
CR11603	-	232709	-
CR11701	-	220638	ECG5014A
CR12301	-	227051	-
CR12702	-	164717	ECG519
CR13501	-	164874	ECG177
CR14101	-	232221	-
CR14102	-	164717	ECG519
CR14103, 04	-	139706	ECG177
CR14105	-	164717	ECG519
CR14106	-	243636	-
CR14107	-	217306	-
CR14108	-	214650	-
CR14109	-	176296	ECG552
CR14110	-	155276	ECG116
CR14111	-	164717	ECG519
CR14113, 14	-	232709	-
CR14115	-	215488	ECG136A
CR14116	-	227362	-
# CR14117	-	244224	-
CR14201 Thru			
CR14204	-	147015	ECG125
CR14205	-	164717	ECG519
CR14301	-	176296	ECG552
# CR14401	-	140971	ECG558
CR14501	-	155276	ECG116
CR14701	-	241304	-
CR14702	-	176296	ECG552
CR14704	-	207878	ECG519
# CR14901	-	157301	ECG177
# CR14902	-	159429	ECG5019T1
CR17101, 02, 03	-	215492	-
CR17105	-	215493	-
CR17106	-	233085	-
CR17107, 08	-	211863	-
CR17109, 10	-	215493	-
CR17111	-	211863	-
CR17112	-	215493	-
CR17113	-	233085	-
CR17114	-	215492	-
CR17301	-	215492	-
CR17302	-	211863	-
CR17303	-	215493	-
CR17304	-	215492	-
CR26401	-	223651	-
CR26402	-	232709	-

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.
CR26901	-	198602	-
Q11501	-	215495	-
Q11603	-	177788	ECG31
Q11901	-	215495	-
Q12301	-	215496	-
Q12701, 02, 03	-	215495	-
Q12704	-	215496	-
Q13101	-	215495	-
Q13102, 03, 04	-	215496	-
Q13301	-	215496	-
Q13501	-	215496	-
Q13503	-	215495	-
# Q14101	-	244223	-
Q14102	-	147665	ECG159
Q14103	-	232218	-
Q14104	-	177789	ECG32
Q14105, 06, 07	-	215495	-
Q14115	-	229220	-
Q14201	-	219412	-
Q14301	-	146851	ECG287
Q14302	-	215495	-
# Q14401	-	242224	-
# Q14901	-	147665	ECG159
Q15101, 02, 03	-	215497	ECG2501
Q17101, 02	-	226973	-
Q17402	-	215496	-
Q17403	-	231534	-
Q17404	-	215496	-
Q26401	-	215496	-
Q26402	-	215495	-
Q26403, 04, 05	-	215496	-
Q26408	-	215496	-
Q26409	-	215495	-
Q26410	-	215496	-
Q26901	-	215496	-
Q26902, 03	-	215495	-
U11501	MC3403N	241785	ECG987
U11601	CXA2074S	237930	-
U11602	-	237474	-
U11900, 01	TDA7267	244225	-
# U12101	LA7612N	241266	-
U13101	ST9296N9B1/JBT	244226	-
U13102	24C08	244878	-
# U14101	-	223653	-
U14102	-	231525	-
U14103	L7852CV	241752	-
U14104	KA7812	162394	ECG966
U14150	L78S75CV	231526	-
U14501	TDA8172	215531	ECG1788
U17301	-	231528	-
U17401	-	231529	-
U26401	GS301A	241781	-

For SAFETY use only equivalent replacement part.

RCA

MODEL F26645YX1 (CHASSIS CTC203AX)

PARTS LIST continued

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.
U26403	KM416C2560J-L6	241783	-
U26404	-	237669	-
U26405	HC123A	239151	-
U26406	-	244258	-
U26901, 02, 03	LA7221	227354	-

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.
# R11401, 03	2200 20% 1/4W	237429
# R11406	56 10% 1/4W	237448
# R11407, 09	2200 20% 1/4W	237429
# R11412, 14	56 10% 1/4W	237448
# R11511, 12	100 5% 1/4W Nonflammable	198667
R11616	61.9K 1% 1/10W	225705
# R11627	10 5% 1/4W Nonflammable	241259
# R11909	16 5% 3W Nonflammable	244213
R12201	680 2% 1/10W	195939
R12302, 03	120K 2% 1/10W	207834
R12317	680 2% 1/10W	205339
R12318	750 2% 1/10W	202914
# R12601	150 5% 1/4W	176645
R12713	750 2% 1/10W	202914

For SAFETY use only equivalent replacement part.

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.
R12717, 21, 25	220 5% 1/4W	-
	220 2% 1/4W	175324
R12801	15K 2% 1/10W	205354
R12804	13K 2% 1/8W	178285
R12805	750 2% 1/10W	202914
R13111	27K 2% 1/10W	205245
R13123	100K 1% 1/10W	215221
R13124	47.5K 1% 1/10W	237430
R13507	27K 2% 1/10W	205245
# R14101	47K 5% 3W	232213
# R14102	6800 5% 1/2W	179248
# R14105	10 5% 1/4W	220568
# R14106	2000 5% 1/4W	175321
# R14107	43 5% 1/4W	244214
# R14108	.1 5% 3W Wirewound	244215
# R14109	750 5% 1/4W	179317
R14112	680 2% 1/10W	195939
R14115	143K .1% 1/4W	244216
R14116	2800 .1% 1/4W	244217
# R14117	160 5% 7W Wirewound	227958
R14118	47K 5% 3W	232213
# R14124	3.3 5% 2W Nonflammable	223680
R14126	37.4K 1% 1/10W	215215
# R14151	8.2 5% 1W	235378
# R14201	2.7M 10% 1/2W	217662
# R14202	1.8 10% 15W Wirewound	200444
# R14205	120K 10% 1/2W	238903
# R14305	2400 2% 3W	235380
R14326	910 2% 1/10W	197627
# R14401	15K 5% 1W	190557
# R14402	91 5% 1/2W	227249
# R14403	820 5% 1W	175349
# R14506	13 5% 1W	231508
# R14507	1.5 5% 2W	237441
# R14508	1 10% 2W Wirewound	215577
# R14701	10 10% 1/2W	241261
# R14703	.68 5% 3W Wirewound	244221
# R14704	82K 10% 1/2W	239116
# R14705	27K 10% 1/2W	238958
R14706	1050 1% 1/4W	231511
# R14901	100 5% 1/4W Nonflammable	198667
# R14902, 03	39.2K 1% 1/4W	190469
# R15101, 02, 03	10K 5% 2W Nonflammable	176656
# R15104, 05, 06	2200 10% 1/2W	502222
# R15118	1200 20% 1/2W	195726
R26462	357K 1% 1/10W	241780
# R26901	270 5% 1/2W	192410
RN14501	Resistor Network	215499
# RT14201	8 Cold PTC	207768

For SAFETY use only equivalent replacement part.

PARTS LIST continued

CAPACITORS & ELECTROLYTICS		
Item No.	Rating	Mfr. Part No.
C11612, 13	22pF 5% 50V NPO	194903
C12303	120pF 5% 50V NPO	194902
C12714, 15, 16	330pF 5% 50V NPO	205227
C12718	100pF 5% 50V NPO	193340
C12803	15pF 5% 50V NPO	200538
C12805	120pF 5% 50V NPO	194902
C13102, 03	120pF 5% 50V NPO	194902
C13106, 07	56pF 5% 50V NPO	214741
C13170	220pF 5% 50V NPO	205551
C13312	100pF 5% 50V NPO	193340
# C14102	.0168 1.6kV	237355
# C14108	.0011 1.6kV	244208
# C14111	100µF 20% 63V	237425
# C14112	.01 10% 50V	240934
C14113, 15	680pF 20% 1kV	190538
C14159, 60	100pF 5% 50V NPO	193340
C14161	100pF 5% 50V NPO	174412
C14201	.22 20% 250VAC	-
	.22 20% 125VAC	231451
# C14203, 04	680pF 10% 1kV	190538
# C14205	680µF 20% 200V	190560
# C14207	.005 20% 120V	195697
# C14208	470pF 10% 250VAC	250102
C14303	47pF 5% 50V NPO	214732
C14310	15pF 1% 250V NPO	223899
C14322	39pF 5% 50V NPO	202905
C14401	470pF 5% 50V NPO	195918
# C14402	.0137 1.6kV	244209
# C14403	.41 5% 250V	214752
# C14404	2.2µF 20% 200V	196050
# C14405	.0047 10% 250V	190534
# C14406	470pF 5% 2kV	227068
C14702	470pF 10% 500V NPO	227050
C14704	680pF 10% 1kV	190538
C14706	470pF 10% 500V NPO	227050
C14710	.01 20% 1kV	137583
# C14904	.22 +80% -20% 25V	217298
C15101	.001 10% 3kV	120696
C17102	4pF ±.25 50V NPO	244210
C17103	22pF 5% 50V NPO	194903
C17105	.75pF ±.25pF 50V NPO	214758
C17108	27pF 5% 50V N750	214760
C17110	1.5pF ±.1pF 50V NPO	223146
C17117	2pF ±.25pF 50V NPO	194905
C17118	22pF 5% 50V NPO	194903
C17124	27pF 5% 50V NPO	197604
C17127	120pF 5% 50V NPO	194902
C17128	16pF 2% 50V NPO	214736
C17136	180pF 2% 50V NPO	241265
C17137	330pF 5% 50V NPO	205227
# For SAFETY use only equivalent replacement part.		

CAPACITORS & ELECTROLYTICS continued		
Item No.	Rating	Mfr. Part No.
C17140	6pF ±.25pF 50V NPO	227250
C17149	22pF 5% 50V NPO	194903
C17150	150pF 5% 50V NPO	214032
C17151	20pF 5% 50V NPO	220150
C17152	43pF 5% 50V NPO	214029
C17153	39pF 5% 50V NPO	202905
C17301, 02	1.5pF ±.1pF 50V NPO	223146
C17304	2pF ±.25pF 50V NPO	194905
C17305	75pF 5% 50V NPO	192061
C17307	20pF 5% 50V NPO	220150
C17308	5pF ±.25pF 50V N750	231457
C17309	10pF ±.5pF 50V N750	244212
C17310	8pF ±.5pF 50V N750	214766
C17311, 12	5pF ±.25pF 50V N750	231457
C17316	8pF ±.5pF 50V NPO	194909
C17320	180pF 5% 50V NPO	211039
C17322	24pF 2% 50V NPO	231459
C17323	6pF ±.25pF 50V NPO	227250
C17326	82pF 2% 50V NPO	231460
C17405	33pF 5% 50V NPO	194911
C17410, 11	39pF 5% 50V NPO	202905
C17416, 17	43pF 5% 50V NPO	214029
C26402	220pF 5% 50V NPO	205551
C26413 Thru		
C26416	56pF 2% 50V NPO	239136
C26417, 18	68pF 2% 50V NPO	214762
C26421	100pF 5% 50V NPO	193340
C26423	33pF 2% 50V NPO	239138
C26433, 35, 37	33pF 2% 50V NPO	239138
C26438	22pF 2% 50V NPO	223698
C26453	100pF 2% 50V NPO	227089
C26460	330pF 2% 50V NPO	241779
C26461	220pF 5% 50V NPO	205551
# For SAFETY use only equivalent replacement part.		

PARTS LIST
continued

COILS & TRANSFORMERS			
Item No.	Function/Rating		Mfr. Part No.
# DY1 (1)	Yoke	Horiz 1.3mH Vert 10mH	-
FB13101	Ferrite Bead		226467
FB14106, 07, 08	Ferrite Bead		237504
FB14109	Ferrite Bead		226467
FB14110, 11	Ferrite Bead		215546
FB14114	Ferrite Bead		237504
FB14401	Ferrite Bead		227410
FB14501	Ferrite Bead		215547
FB26401, 02	Ferrite Bead		226467
L12302	VCO		215502
L12303	FM Detector		233056
L12305	10µH		175409
L12705	10µH		175409
L13105, 06	4.7µH		237451
L14102	27µH		190017
L14103	22µH		215504
L14104, 05	47µH		244222
# L14200	Degaussing		218764
L14401	6.8µH		191141
# L14402	56µH		192844
L15101	100µH		160186
L17101	-		215507
L17102	-		236641
L17103	-		223929
L17104, 05	-		223917
L17106	-		237456
L17107	-		233057
L17108	-		233074
L17109	3.9µH		200559
L17110	-		233075
# For SAFETY use only equivalent replacement part.			
(1) Bonded part of CRT.			

COILS & TRANSFORMERS continued		
Item No.	Function/Rating	Mfr. Part No.
L17111	-	233076
L17112	-	231441
L17113	-	233077
L17114	-	231441
L17115	-	233078
L17116	-	237461
L17117	-	237460
L17118	-	237461
L17301	-	231443
L17302	-	231444
L17303	-	233079
L17304	-	233080
L17305	-	236643
L17306	-	231448
L26401	2.2µH	197616
L26402, 03	2.2µH	239143
L26409	2.2µH	197616
L26901	100µH	244249
# T14101	Switch Mode	244228
# T14201	Line Filter	190507
# T14301	Horizontal Drive	215541
# T14401 (2)	Horizontal Output	244229
# For SAFETY use only equivalent replacement part.		
(2) Screen and focus controls are part of T14401.		

PARTS LIST continued

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF12201	Filter	195702	4.5MHz
CF12301	Trap	238296	4.5MHz
# F14201	Fuse	175425	5A, 125V, Fast Acting
FL12601	Filter	225701	Comb
IR13201	Receiver	244227	IR
J11401	Jack	239389	Assembly
J11402	Jack	244121	Assembly
J11403	Jack	237510	S-Video In
J13201	Jack	214609	Gemstar IR Blaster
J17101	Jack	215543	75 RF Input
# K14201	Relay	190490	Degaussing
# KS15101	Socket	233120	CRT
# P14201	Line Cord	225766	AC, Polarized
SF12301	Filter	217318	SAW
SP1, 2 (1)	Speaker	243893	2 1/4" X 3 1/2", 8 Ohms, 1.5W
SP1, 2 (2)(3)	Speaker	243873	2 1/4" X 4 3/4", 8 Ohms
SW13201	Switch	215500	Power
SW13202	Switch	215500	Volume Up
SW13203	Switch	215500	Volume Down
SW13204	Switch	215500	Channel Up
SW13205	Switch	215500	Channel Down
SW13206	Switch	215500	Menu
# V101 (1)	CRT	HA66ADT275	A66ADT27X05
# V101 (2)	CRT	HA68ADT275	A68ADT27X05
# V101 (3)	CRT	HA68ADT195	A68ADT19X05
Y12801	Crystal	161235	3.58MHz
Y13101	Crystal	230708	4MHz
Y14101	Resonator	227064	507.5kHz
Y17401	Crystal	230708	4MHz
Y26401	Crystal	241784	4.03MHz
	Fuse Holder	176642	For F14201
	PC Board	243874	Comb
	PC Board	244468	CRT
	PC Board	244160	Gemstar 3
	Transmitter	242524	Remote, CRK76TE1

For SAFETY use only equivalent replacement part.

(1) Used in model F26645YX1.

(2) Used in model F27645YX1.

(3) Used in models G27646YX1 and G27647YX1.

CABINET PARTS

Item	Mfr. Part No.
Model F26645YX1	
Button Cap	218823
IR Window	218802
Mask and Back Assembly	MK2220
Overlay Jack Panel	243871
# Tray Chassis	243932
Model F27645YX1	
Button Cap	238305
Button Cluster	233123
Mask and Back Assembly	MK2212
Overlay Jack Panel	243871
# Tray Chassis	243932
Window IR	234026
Model G27646YX1	
Back Cover	BK2237
Button Cluster	230633
# Frame Mask	244158
IR Window	208615
Logo (RCA)	250044
Mask, Basic with Buttons	MK2233
Overlay Jack Panel	243871
# Tray Chassis	243932
Model G27647YX1	
Back Cover	BK2234
Button Cluster	230633
# Frame Mask	244158
IR Window	208615
Logo (RCA)	250044
Mask, Basic with Buttons	MK2233
Overlay Jack Panel	243871
# Tray Chassis	243932
Transmitter	
Battery Door	243424

For SAFETY use only equivalent replacement part.

RCA

MODEL F26645YX1 (CHASSIS CTC203AX)