

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, LLC 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, LLC by the manufacturers of the specific type of replacement part listed.

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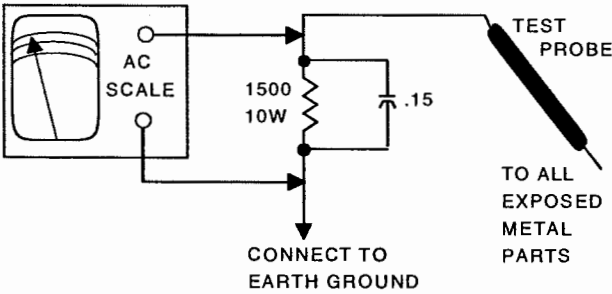
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



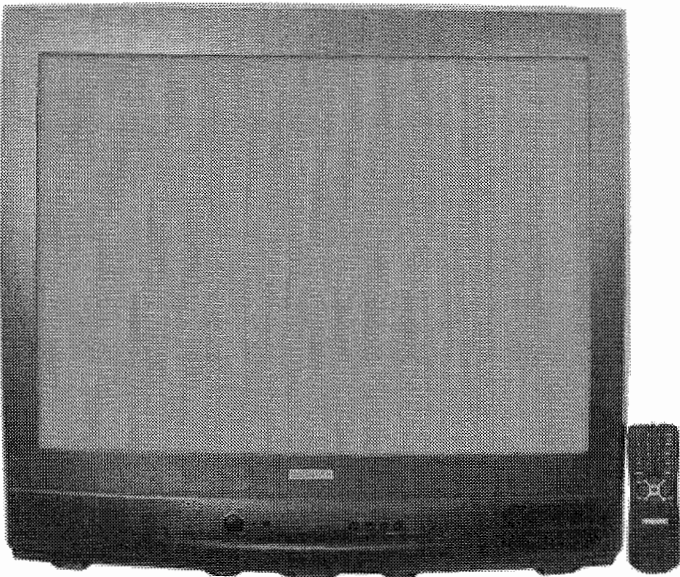
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PHOTOFACT® Technical Service Data

4838

PHILIPS
Models 25PS40S321/25 (Chassis 25T8)



Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

SET 4838

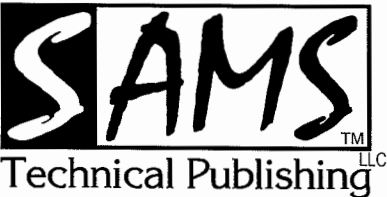
MODELS 25PS40S321/25 (CHASSIS 25T8)

PHILIPS

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For a Complete List of Manuals,
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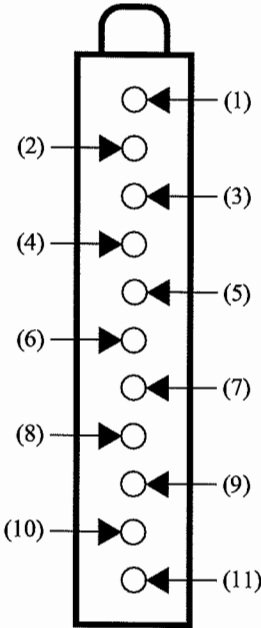
TUNER INFORMATION

TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.0V	2.2V	2.7V
(2) FM ANT	1.2V	4.0V	5.3V
(3) AS	.7V	.7V	.7V
(4) SCL	4.0V	4.0V	4.0V
(5) SDA	4.0V	4.0V	4.0V
(6) +5V	5.0V	5.0V	5.0V
(7) +5V	5.0V	5.0V	5.0V
(8) ADC	0V	0V	0V
(9) +33V	33.3V	33.3V	33.3V
(10) FM	0V	0V	0V
(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



MISCELLANEOUS ADJUSTMENTS NOTE

SERVICE ALIGNMENT MODE INFORMATION

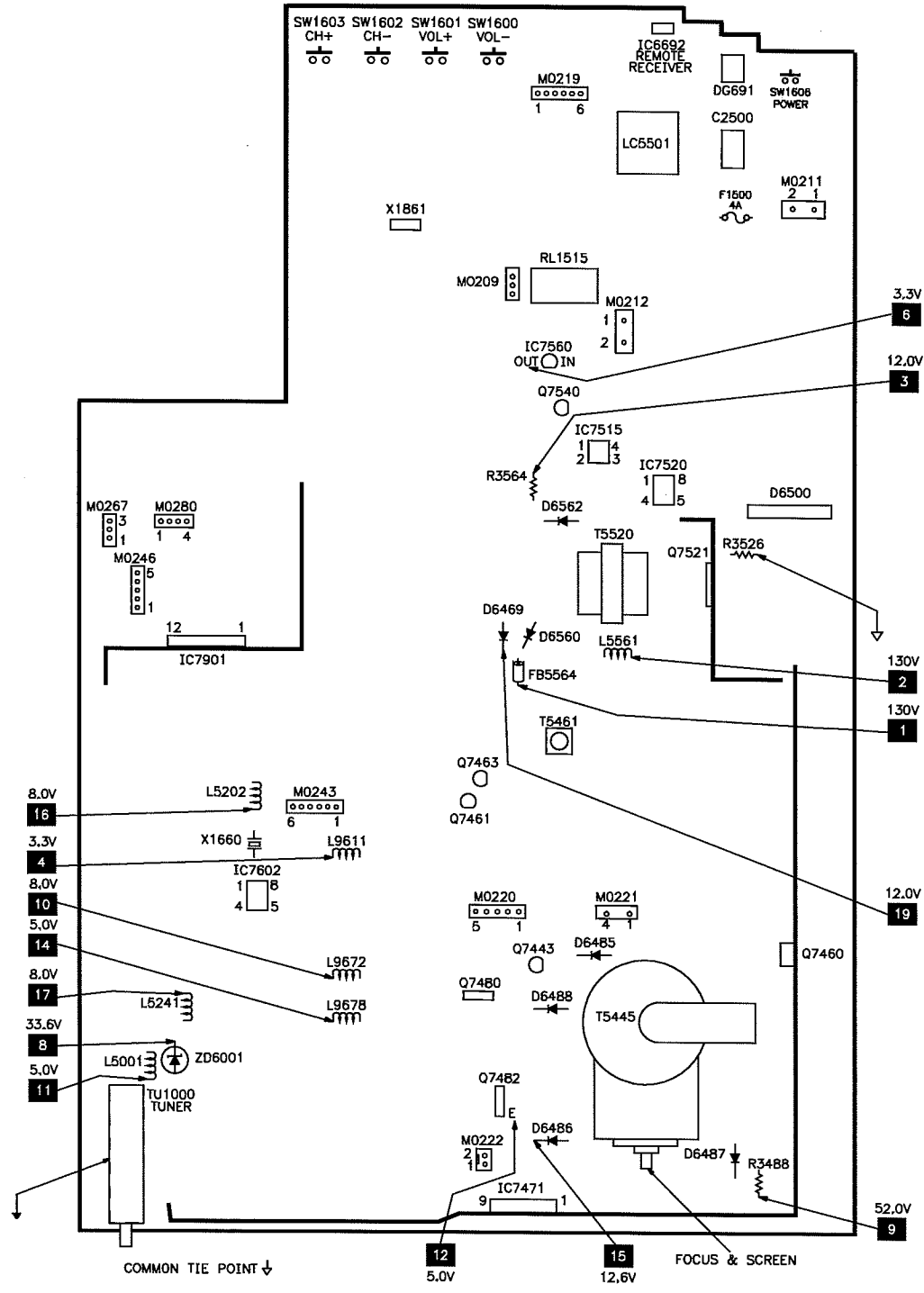
To enter service alignment mode, Factory Service Remote Control must be used. Philips Part # 4835 3105 7511.

SCHEMATIC COMPONENT LOCATION GUIDE

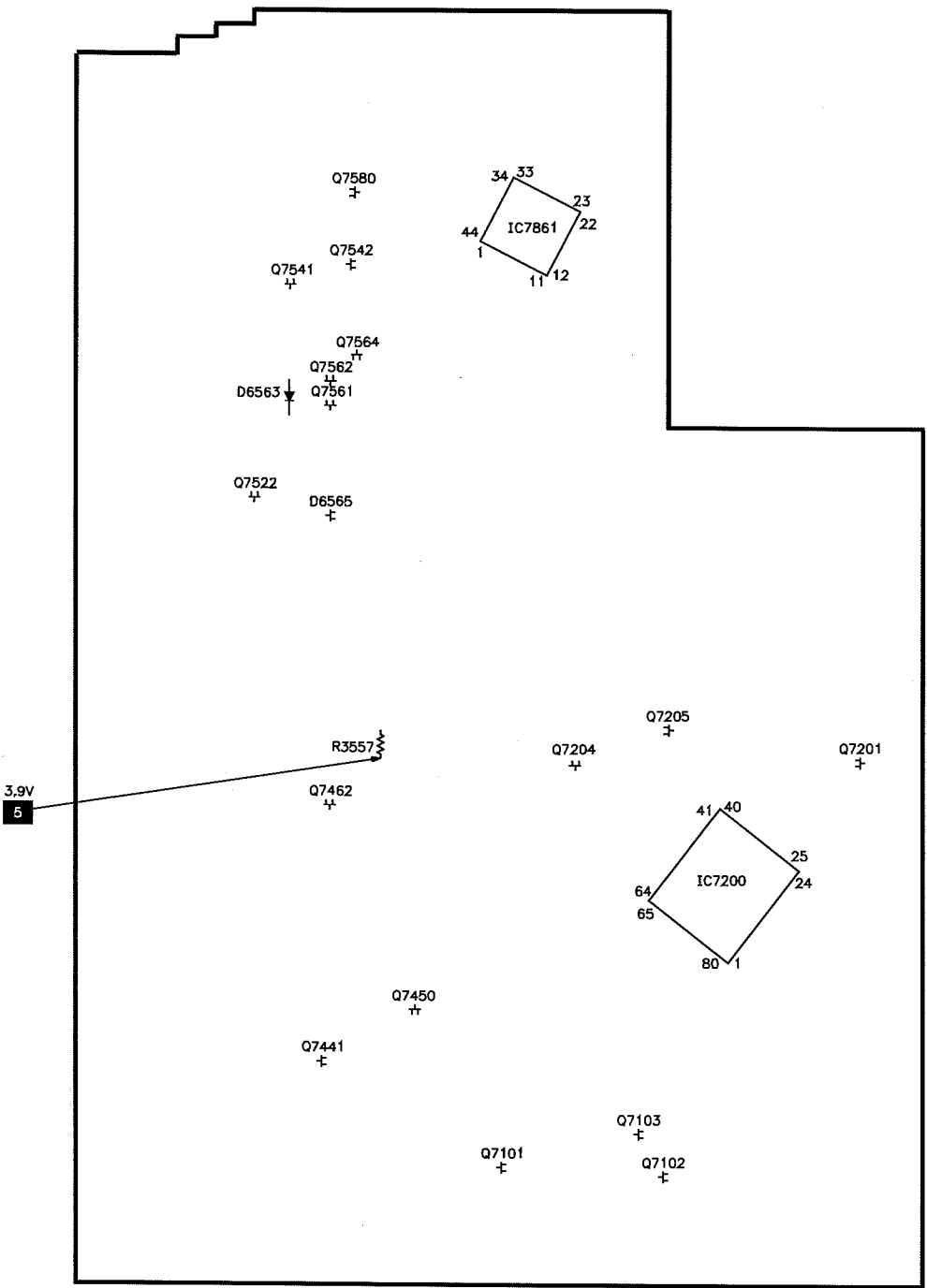
AC01	A21	C2474	D8	C2876	D1	IC7330	B18	R3206	C14	R3479	D10	R3630	C31
AC12	A22	C2475	D8	C2877	E1	IC7471	D9	R3207	B7	R3480	D11	R3636	B32
AC21	D11	C2476	E10	C2878	E1	IC7515	C21	R3208	B8	R3481	D15	R3637	C12
C2004	D25	C2480	E25	C2879	E1	IC7520	B22	R3209	B8	R3482	D15	R3681	C30
C2005	D25	C2481	E23	C2880	A1	IC7560	C27	R3212	B9	R3484	D15	R3682	C29
C2006	D26	C2482	D14	C2883	C1	IC7602	B34	R3213	B8	R3486	D13	R3683	C30
C2007	D25	C2485	C24	C2884	E3	IC7861	A2	R3217	C14	R3488	D23	R3684	C30
C2008	C5	C2486	E26	C2885	E2	IC7901	B3	R3218	C14	R3490	E13	R3687	C29
C2009	C6	C2487	D24	C2886	C1	L5001	D25	R3219	C15	R3492	E9	R3688	C29
C2171	B1	C2488	D23	C2902	B3	L5002	B5	R3226	B16	R3493	E9	R3689	C31
C2172	C1	C2489	E26	C2903	B3	L5201	B8	R3232	C6	R3494	C24	R3691	A31
C2173	C1	C2491	D23	C2904	A3	L5202	D27	R3235	D18	R3495	E10	R3693	A29
C2174	B1	C2500	A21	C2905	A3	L5241	D27	R3241	D6	R3496	E10	R3694	A30
C2176	D3	C2501	A23	C2906	B3	L5242	E8	R3242	D5	R3497	E17	R3861	D1
C2177	D3	C2502	A23	C2907	B3	L5342	B20	R3244	D8	R3498	D9	R3862	A2
C2178	D3	C2503	A24	C2908	C3	L5451	D13	R3245	D7	R3499	E9	R3863	A1
C2179	D3	C2505	A24	C2910	B2	L5457	D12	R3246	D6	R3500	A21	R3864	A1
C2202	B12	C2507	C25	C2911	A2	L5471	D11	R3247	E5	R3501	A21	R3865	B1
C2203	B9	C2508	A25	C2950	B3	L5472	D9	R3248	D6	R3506	A22	R3866	B1
C2204	B13	C2515	B24	D6201	C15	L5480	D20	R3249	D7	R3508	A22	R3867	E2
C2205	B13	C2520	B22	D6202	C14	L5561	A27	R3250	D6	R3510	A23	R3901	B2
C2208	B6	C2521	C21	D6331	B19	L5602	C31	R3251	E8	R3519	B21	R3902	B3
C2209	C15	C2522	B24	D6332	C18	L5603	C31	R3256	E8	R3520	B22	R3903	A2
C2210	C15	C2523	B24	D6333	C19	L5604	C31	R3257	D5	R3521	C22	R3904	A3
C2211	D26	C2525	B23	D6335	A19	L5861	C1	R3258	E5	R3522	B23	R3905	B2
C2216	D28	C2527	C25	D6447	E16	L9611	C27	R3259	E5	R3523	B23	R3906	B3
C2217	D28	C2528	C22	D6449	E13	L9672	D24	R3331	B18	R3524	B24	R3907	C3
C2219	B13	C2540	D22	D6460	E11	L9678	E25	R3332	B19	R3525	B23	RL1515	A22
C2226	B7	C2541	D21	D6461	E11	LC5501	A22	R3333	C18	R3526	C24	RL1515	B22
C2227	C6	C2560	A26	D6465	E11	M0232	D3	R3334	C19	R3527	C24	SP3100	C4
C2228	C6	C2561	A28	D6466	E11	M0250	B1	R3335	A18	R3529	C23	SP3101	D4
C2229	B6	C2562	A26	D6467	A27	M0250	C1	R3336	A19	R3530	B24	SP3507	A22
C2241	D6	C2563	B26	D6468	E9	M0250	C11	R3340	C25	R3531	C23	SW1600	C29
C2242	D6	C2564	B26	D6469	B27	Q7201	B7	R3341	C20	R3532	B24	SW1601	C30
C2243	D5	C2567	C28	D6470	E18	Q7204	C15	R3342	C20	R3541	D22	SW1602	C30
C2244	D7	C2568	D21	D6485	C24	Q7441	D17	R3343	C19	R3542	C22	SW1603	C30
C2245	D5	C2580	B21	D6486	E23	Q7443	E16	R3344	D16	R3543	D22	SW1606	C30
C2247	D28	C2581	E25	D6487	D23	Q7450	E6	R3345	D16	R3544	D22	T5445	C13
C2248	D28	C2601	B33	D6488	D23	Q7460	E10	R3346	D16	R3545	D22	T5445	C23
C2249	D5	C2602	A31	D6500	A23	Q7461	E9	R3441	D18	R3548	D22	T5461	E10
C2250	D6	C2606	C31	D6520	C22	Q7462	E8	R3443	D18	R3552	D21	T5520	A25
C2252	D8	C2607	B31	D6523	C23	Q7463	E9	R3445	D17	R3557	C26	TH3504	B22
C2253	D8	C2608	C31	D6524	C24	Q7480	D24	R3446	D17	R3561	B26	V1010	B20
C2330	C25	C2609	B31	D6525	C24	Q7482	E24	R3447	D24	R3562	B26	X1002	B5
C2340	C25	C2611	D31	D6560	A26	Q7521	B24	R3448	D24	R3563	B28	X1200	B8
C2341	C20	C2612	A33	D6562	B26	Q7522	C23	R3449	D24	R3564	B26	X1660	B31
C2342	C18	C2613	A33	D6563	B26	Q7540	D22	R3450	E24	R3565	C28	X1861	E1
C2343	C19	C2615	B34	D6565	C28	Q7541	D21	R3451	E16	R3566	D21	ZD6001	D25
C2344	C18	C2618	C31	D6566	D21	Q7542	D21	R3452	E16	R3567	B26	ZD6161	C11
C2345	D17	C2619	D31	D6569	E21	Q7561	B28	R3453	E16	R3569	D22	ZD6206	C15
C2405	E10	C2691	A29	D6580	B21	Q7580	B21	R3454	E16	R3580	B21	ZD6445	E17
C2441	E17	C2805	B2	D6691	A31	R3000	A35	R3455	E24	R3594	C22	ZD6448	E16
C2443	D17	C2806	C1	D6903	B3	R3001	A35	R3458	D11	R3595	A27	ZD6453	E5
C2444	D17	C2861	B1	F1500	A21	R3003	C5	R3459	E11	R3596	A27	ZD6462	E9
C2450	A28	C2862	A6	FB5204	B26	R3004	C5	R3460	D25	R3603	A34	ZD6476	D10
C2451	D13	C2864	D1	FB5205	B4	R3005	C6	R3463	E10	R3604	A34	ZD6481	E24
C2455	E9	C2865	D1	FB5452	E11	R3150	B1	R3465	D15	R3606	A32	ZD6482	D24
C2457	E12	C2866	B2	FB5521	B24	R3151	B1	R3468	E9	R3607	A32	ZD6483	D14
C2458	E11	C2867	D1	FB5560	A26	R3152	C1	R3469	E13	R3608	A31	ZD6526	B24
C2459	D11	C2868	D1	FB5562	B26	R3153	C1	R3470	D8	R3611	B34	ZD6540	D22
C2460	E8	C2869	A2	FB5564	A26	R3156	D3	R3471	D11	R3618	D33	ZD6541	C22
C2462	E11	C2870	B2	IC6692	A29	R3157	D3	R3472	D11	R3623	D32	ZD6570	E21
C2463	E11	C2871	D1	IC7200	B10	R3200	B6	R3473	D11	R3624	A33		
C2465	E11	C2872	C2	IC7200	B32	R3201	A16	R3474	D8	R3625	A33		
C2471	E25	C2873	C2	IC7200	B6	R3202	C16	R3475	D9	R3626	B34		
C2472	D11	C2874	E1	IC7200	D6	R3203	B16	R3477	D11	R3627	D31		
C2473	D9	C2875	E1	IC7200	D6	R3204	C18	R3478	D11	R3628	D31		

PLACEMENT CHART

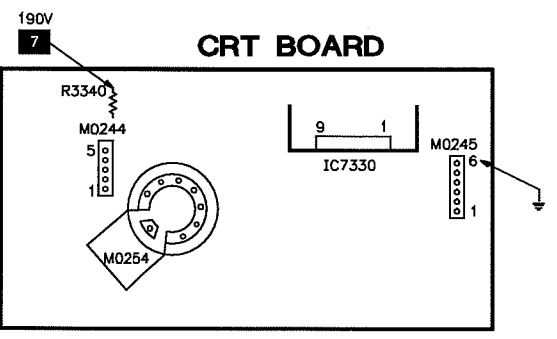
MAIN BOARD - TOP VIEW



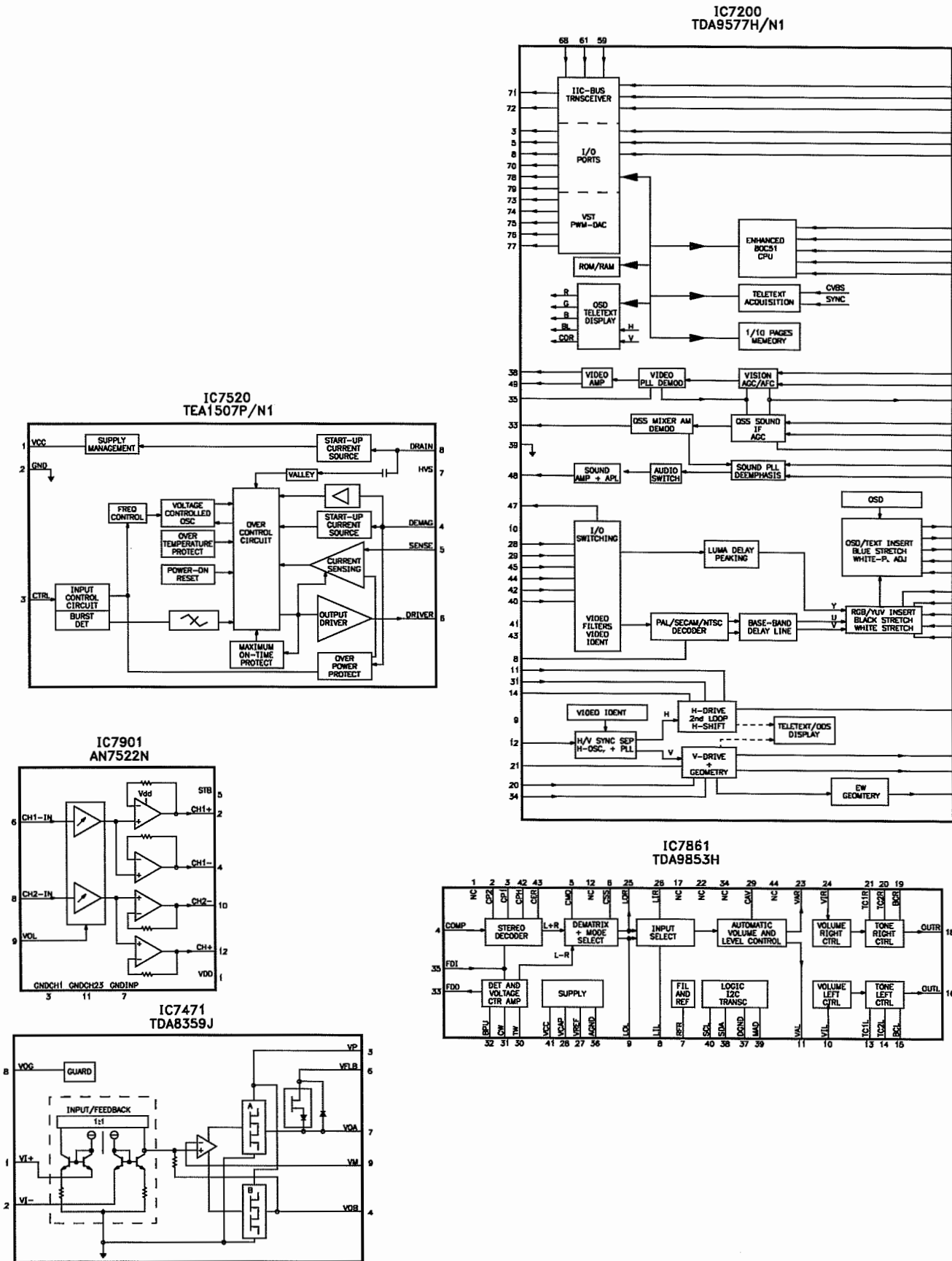
MAIN BOARD - BOTTOM VIEW



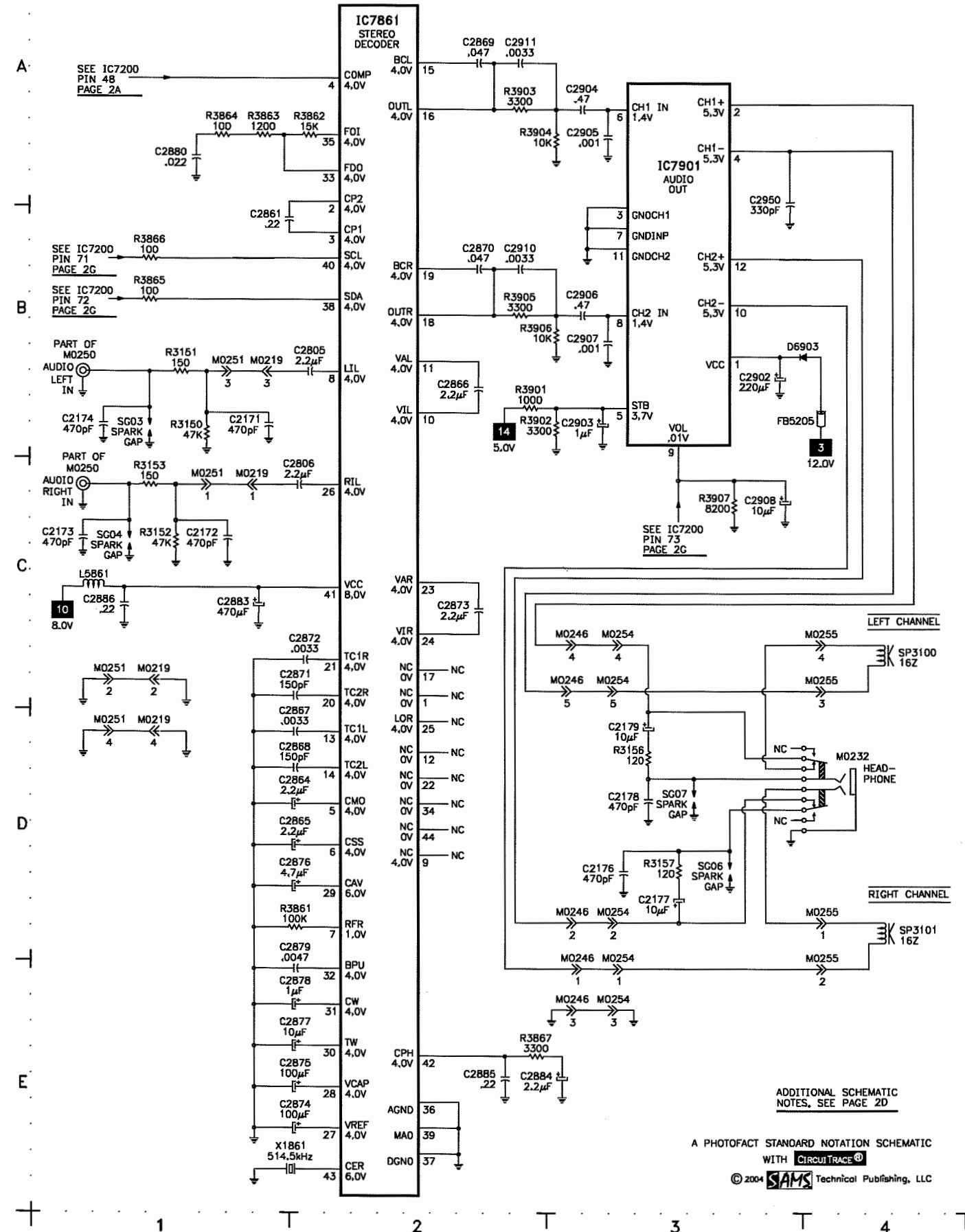
CRT BOARD



IC FUNCTIONS



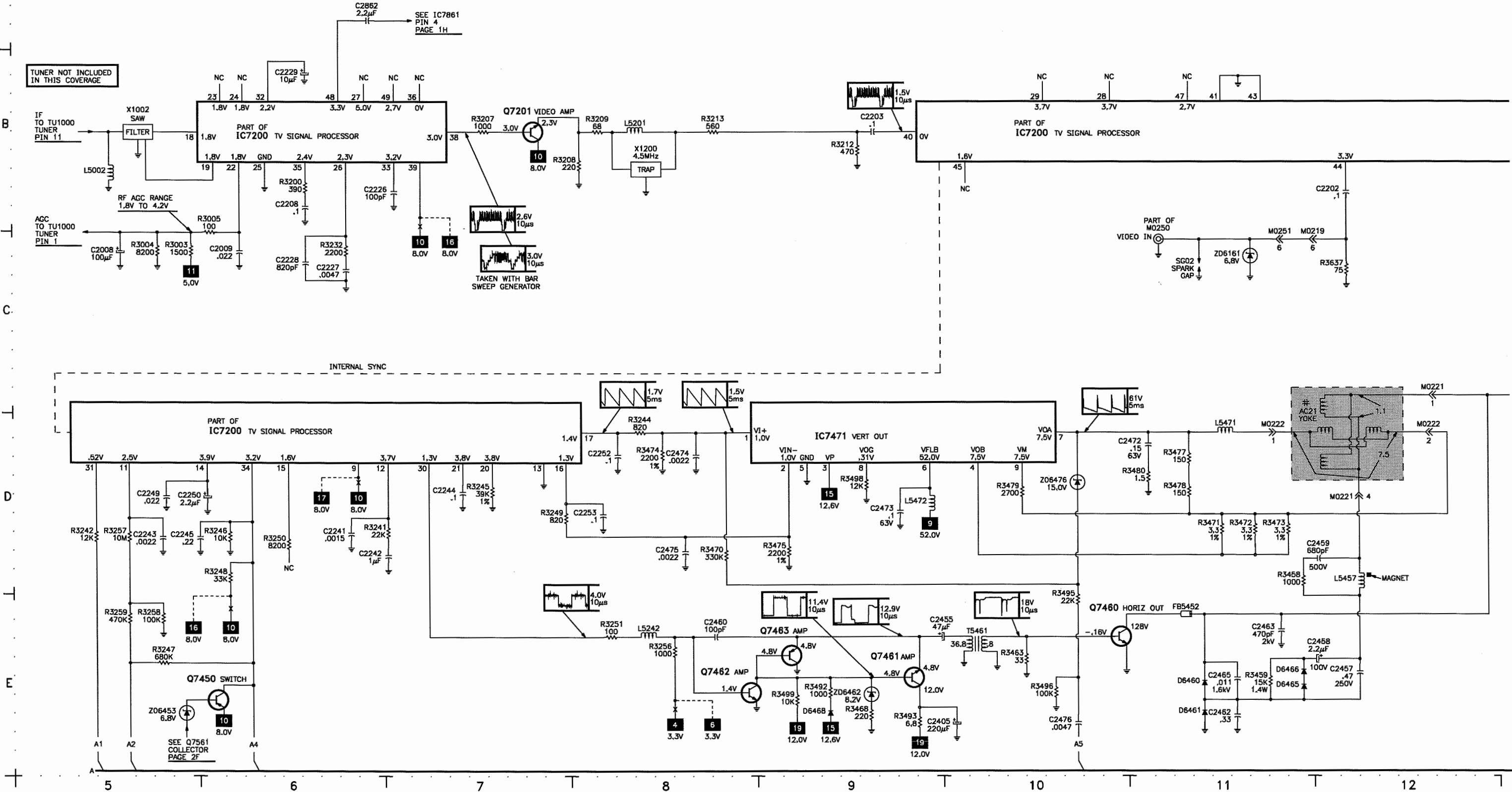
AUDIO SCHEMATIC

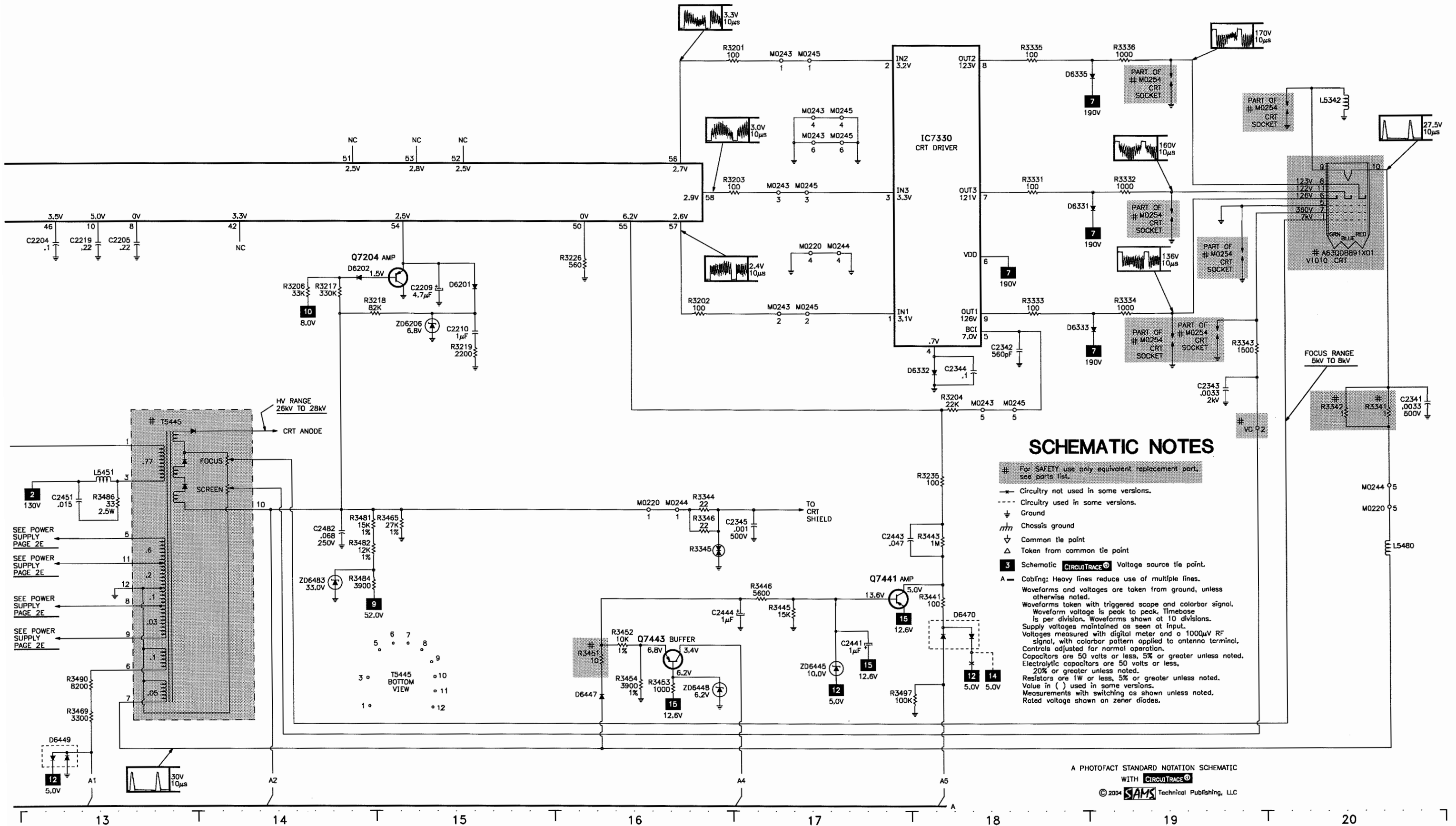


TELEVISION SCHEMATIC

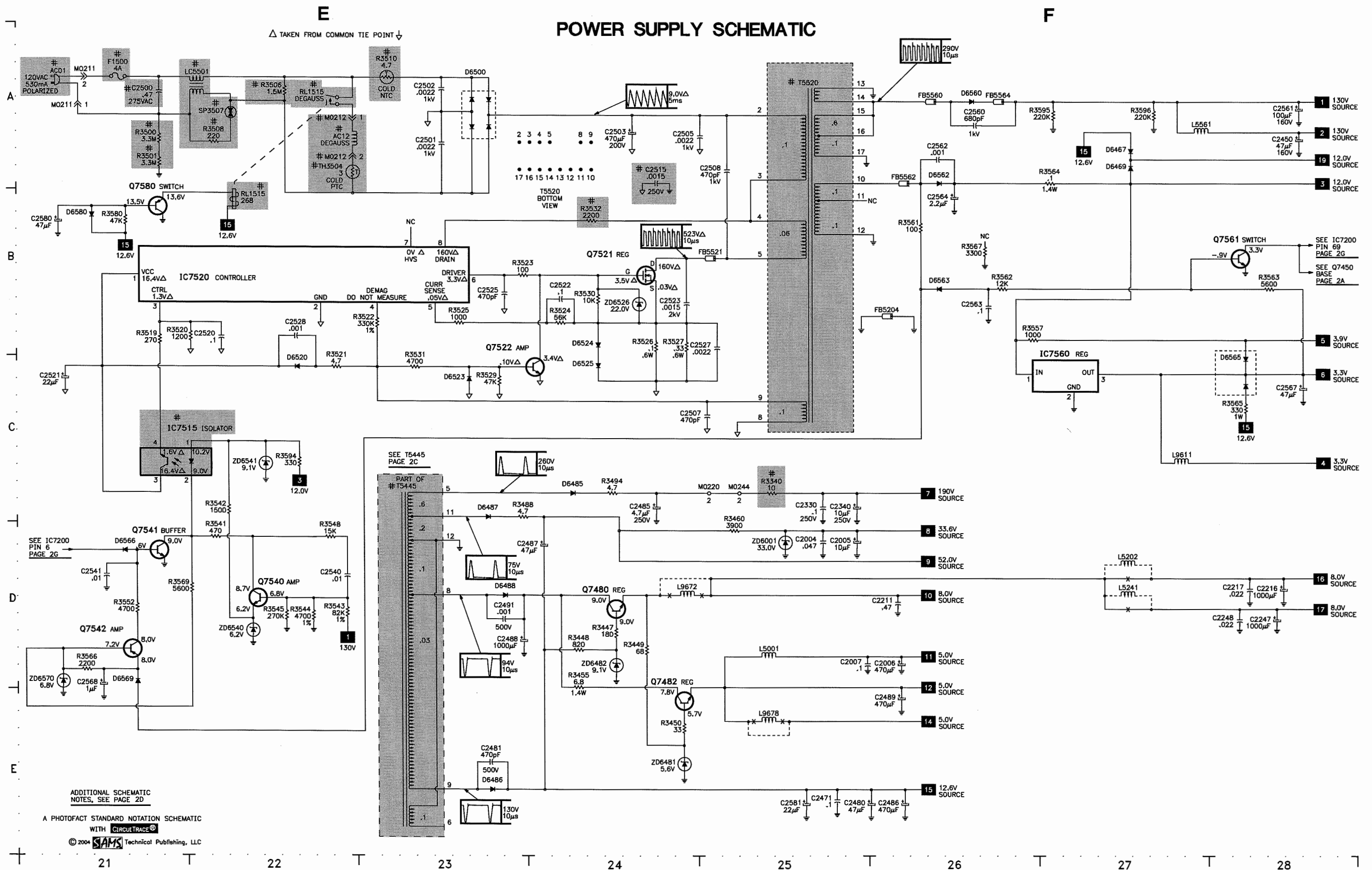
ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2D

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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POWER SUPPLY SCHEMATIC



G

SYSTEM CONTROL SCHEMATIC

H

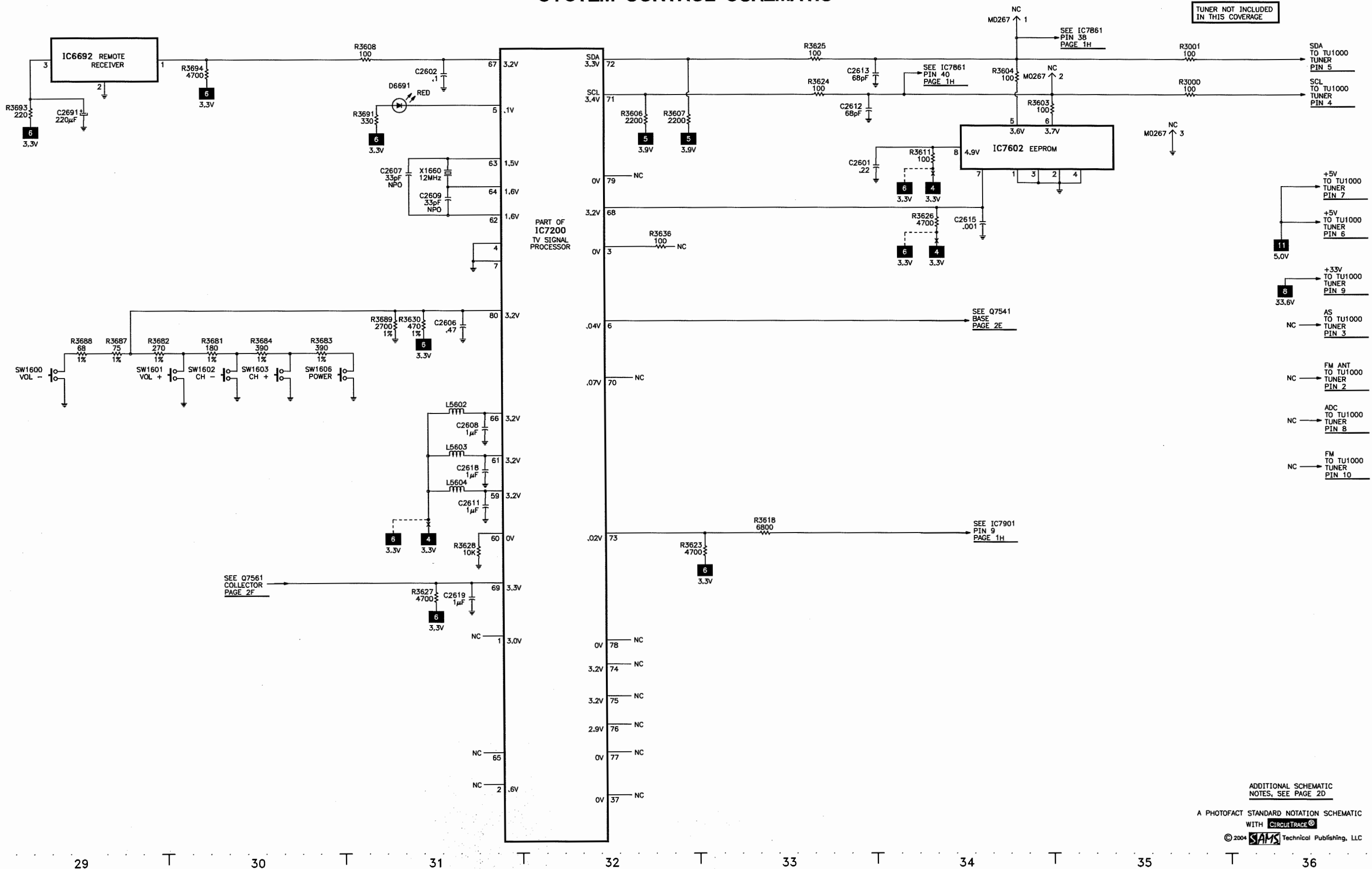
A

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C

D

E



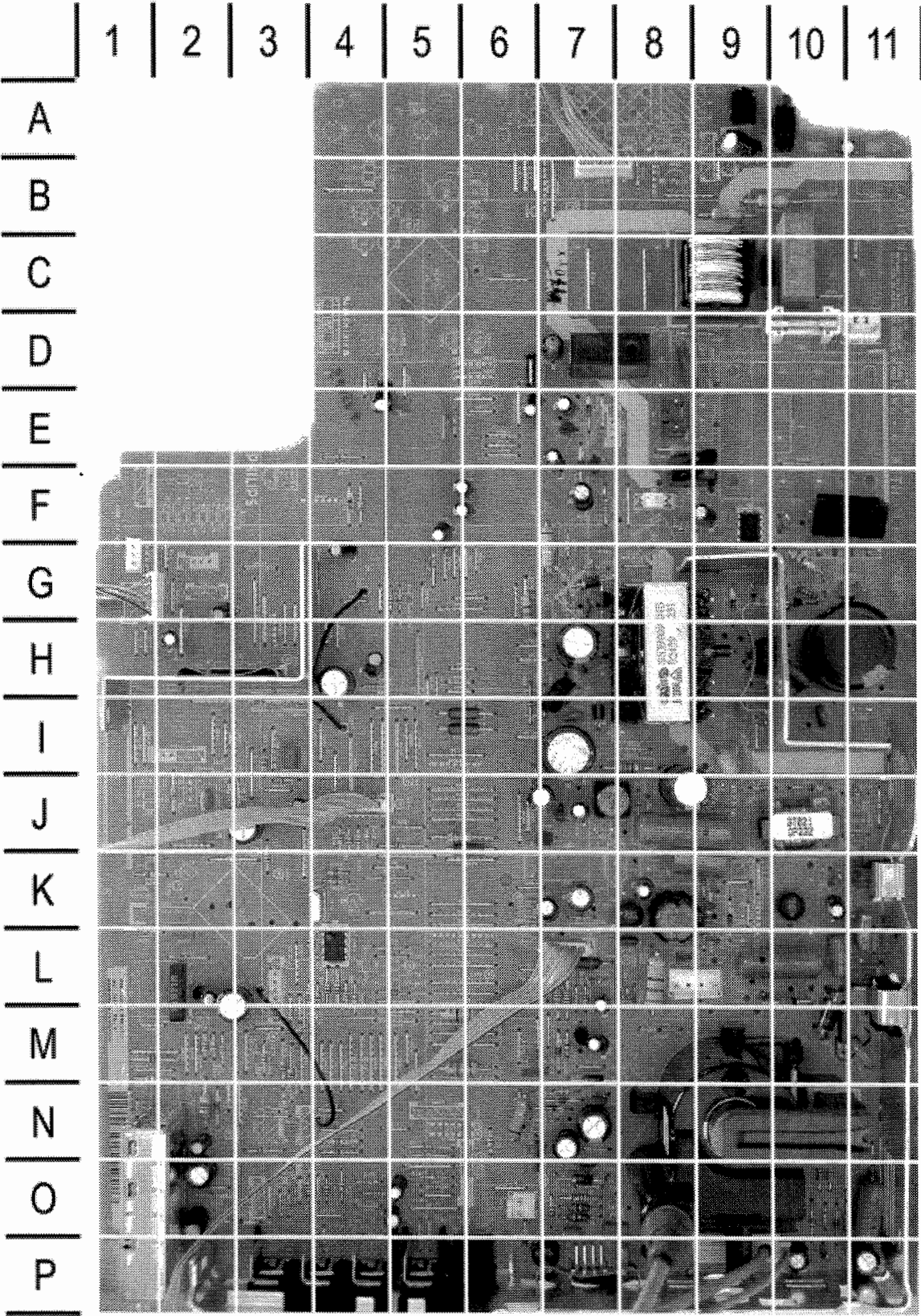
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MODELS 25PS40S321/25 (CHASSIS 25T8)

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2DA PHOTOFACT STANDARD NOTATION SCHEMATIC
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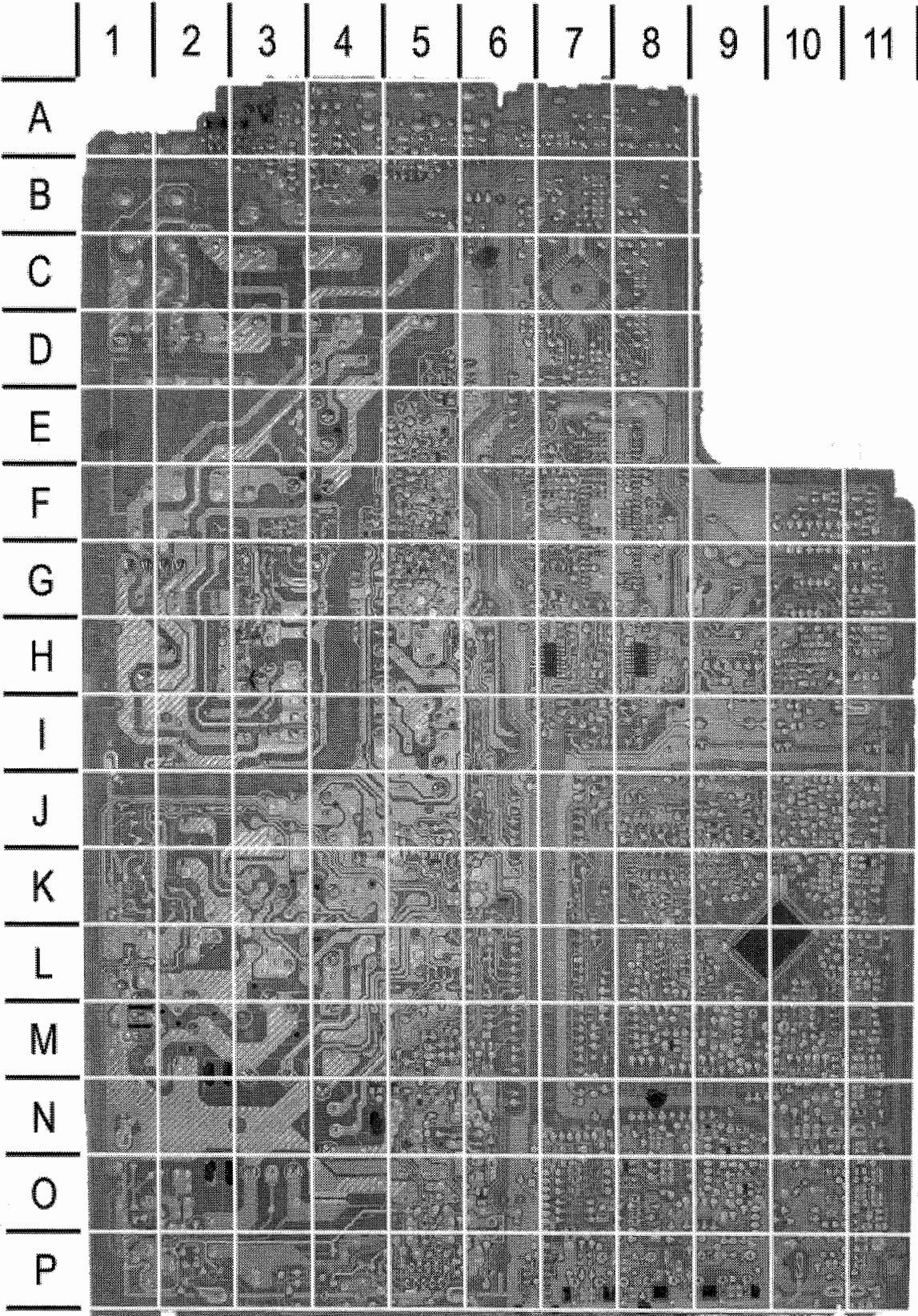
MAIN BOARD - TOP VIEW



MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C2005	N2	C2515	I9	D6500	F10	L5603	K4	R3251	K1	R3508	C9	ZD6001	N2
C2006	O2	C2521	F9	D6520	F9	L5604	K4	R3445	L7	R3510	E9	ZD6448	M7
C2008	O2	C2523	H10	D6523	G9	L5861	B6	R3446	L7	R3519	F8	ZD6462	J8
C2209	J3	C2560	I7	D6524	H10	L9611	J5	R3447	N7	R3521	F9	ZD6476	P6
C2216	J3	C2561	I7	D6525	G10	L9672	M5	R3448	O7	R3523	G9	ZD6481	N7
C2244	L2	C2562	G7	D6560	H7	L9678	M5	R3449	N6	R3526	G10	ZD6482	N7
C2247	M2	C2563	F7	D6562	G7	LC5501	C10	R3450	N7	R3527	G10	ZD6483	O10
C2250	L2	C2564	H7	D6566	E7	M0211	D11	R3451	L7	R3532	F10	ZD6540	E7
C2405	J6	C2567	E7	D6691	A10	M0212	E8	R3452	L7	R3543	F7		
C2441	M7	C2568	E7	D6903	I3	M0219	B7	R3453	M7	R3561	G7		
C2444	L7	C2580	D7	F1500	D10	M0220	L7	R3454	L7	R3564	G7		
C2450	J8	C2581	E6	FB5204	I5	M0221	L9	R3455	N6	R3565	G6		
C2451	L8	C2691	A9	FB5205	I5	M0222	O6	R3458	L9	R3603	L4		
C2455	J7	C2864	D6	FB5452	M2	M0243	J4	R3459	K9	R3604	L4		
C2457	K9	C2865	D5	FB5521	H9	M0246	G1	R3460	P8	R3606	L4		
C2458	K8	C2869	D5	FB5560	I7	M0267	G1	R3463	M11	R3607	L4		
C2459	L8	C2870	D4	FB5562	G7	Q7443	M7	R3465	O10	R3608	K4		
C2462	L10	C2874	C4	FB5564	I7	Q7460	L11	R3468	J8	R3618	L5		
C2463	M11	C2875	C5	IC6692	A9	Q7461	J7	R3469	K6	R3624	L3		
C2465	L10	C2876	B4	IC7471	P7	Q7463	J7	R3471	O7	R3625	L4		
C2471	O7	C2877	B5	IC7515	F8	Q7480	M6	R3472	O7	R3865	B4		
C2472	O7	C2878	B5	IC7520	F9	Q7482	N6	R3473	O7	R3866	B4		
C2473	P8	C2883	B5	IC7560	E7	Q7521	H9	R3474	P9	RL1515	D7		
C2480	P8	C2884	B6	IC7602	L4	Q7540	E7	R3475	P9	SP3507	D9		
C2481	N7	C2885	B6	IC7901	H3	R3000	O2	R3477	O7	SW1600	A6		
C2482	O11	C2902	H4	L5001	N2	R3001	O2	R3478	O7	SW1601	A5		
C2485	K7	C2903	G2	L5002	M1	R3005	L1	R3480	P7	SW1602	A4		
C2486	P11	C2908	H2	L5201	J2	R3200	K8	R3481	O10	SW1603	A4		
C2487	P10	D6447	L8	L5202	J3	R3201	J4	R3482	O10	SW1606	A11		
C2488	N7	D6460	L10	L5241	M3	R3202	J4	R3484	O10	T5445	N9		
C2489	N7	D6461	M10	L5242	M1	R3203	J4	R3486	L8	T5461	J7		
C2491	N7	D6465	K9	L5451	K8	R3204	J4	R3488	P10	T5520	H8		
C2500	C10	D6466	K9	L5457	K8	R3207	J2	R3490	K7	TH3504	D8		
C2501	F10	D6469	J6	L5471	P7	R3213	J2	R3493	I6	TU1000	O1		
C2502	G11	D6485	M8	L5472	P8	R3235	J5	R3494	L8	X1002	L2		
C2503	H11	D6486	O7	L5480	L7	R3244	M2	R3500	B9	X1200	J2		
C2505	I10	D6487	O10	L5561	I8	R3249	M2	R3501	B9	X1660	K4		
C2508	I9	D6488	M7	L5602	L3	R3250	M2	R3506	E8	X1861	C6		

MAIN BOARD - BOTTOM VIEW



MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C2004	O9	C2525	F3	C2905	H9	R3209	I9	R3529	G3	R3688	A6
C2007	O9	C2527	G2	C2906	H9	R3212	I9	R3530	H2	R3689	C6
C2009	L10	C2528	F3	C2907	H9	R3217	I8	R3531	G3	R3691	A2
C2203	J9	C2540	E5	C2910	H9	R3218	I8	R3541	E4	R3693	A3
C2204	J8	C2541	E4	C2911	H9	R3219	J8	R3542	E4	R3694	A3
C2205	L9	C2601	K7	D6201	I8	R3226	J8	R3544	F4	R3861	D7
C2208	J8	C2602	J7	D6202	I7	R3232	K10	R3545	F4	R3862	B7
C2210	J8	C2606	M7	D6449	O5	R3241	L9	R3548	F5	R3863	B7
C2211	J10	C2607	K8	D6467	I5	R3242	I8	R3552	E5	R3864	B7
C2217	J9	C2608	K8	D6468	J5	R3245	K9	R3557	H5	R3867	B6
C2219	L9	C2609	K8	D6470	M4	R3246	I8	R3562	F4	R3901	G8
C2226	K10	C2611	K7	D6563	G5	R3247	L6	R3563	G5	R3902	H9
C2227	L11	C2612	L7	D6565	G5	R3248	I8	R3566	F5	R3903	H9
C2228	L11	C2613	L7	D6569	E5	R3256	K5	R3567	F4	R3904	H9
C2229	K2	C2615	K7	D6580	D5	R3257	L9	R3569	F5	R3905	H9
C2241	L9	C2618	K7	IC7200	K8	R3258	M8	R3580	D5	R3906	H9
C2242	L9	C2619	L8	IC7861	C7	R3259	L6	R3594	E4	R3907	H9
C2243	L9	C2805	G7	Q7201	J10	R3441	M4	R3595	I3	ZD6206	J8
C2245	I8	C2806	G7	Q7204	J7	R3443	L5	R3596	I3	ZD6445	M5
C2248	L9	C2861	D6	Q7441	M4	R3470	P5	R3611	K7	ZD6453	K5
C2249	L9	C2862	D6	Q7450	M5	R3479	O5	R3623	L7	ZD6526	G2
C2252	M9	C2866	D7	Q7462	J5	R3492	J5	R3626	K7	ZD6541	F4
C2253	M9	C2867	D7	Q7522	H3	R3495	O4	R3627	K7	ZD6570	F5
C2443	M5	C2868	D7	Q7541	E4	R3496	O4	R3628	K7		
C2460	J5	C2871	D8	Q7542	E5	R3497	O4	R3630	L7		
C2474	P4	C2872	C8	Q7561	G5	R3498	O4	R3636	M8		
C2475	P4	C2873	C8	Q7580	D5	R3499	J5	R3681	A7		
C2476	O5	C2879	B7	R3003	O10	R3520	F3	R3682	A7		
C2507	G3	C2880	B7	R3004	P10	R3522	G3	R3683	A7		
C2520	F3	C2886	B6	R3206	J7	R3524	G3	R3684	A8		
C2522	G3	C2904	H9	R3208	J10	R3525	G2	R3687	A6		

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes
D6201, 02	BAS316	3198 010 10630	-	# AC21	Yoke	4835 310 57502	Horiz 1.1mH, Vert 19.5mH
D6331	BAV21	3198 010 10070	NTE177	C2343	.0033 10% 2kV	2020 558 90529	-
D6332	BAS316	3198 010 10630	-	C2463	470pF 10% 2kV	2020 558 90483	-
D6333, 35	BAV21	3198 010 10070	NTE177	C2465	.011 5% 1.6kV	2222 375 90155	-
D6447	1N4148	3198 010 10010	NTE519	# C2500	.47 20% 275VAC	2222 336 29148	-
D6449	BAV99	3198 010 10620	-	C2501, 02, 05	.0022 10% 1kV	3198 019 52220	-
D6460	BY228/24	9340 559 50112	-	C2508	470pF 10% 1kV	3198 019 64710	-
D6461	RGP30J-L7004	9338 617 60682	-	# C2515	.0015 20% 250V	2020 554 90128	-
D6465, 66	BAV21	3198 010 10070	NTE177	C2523	.0015 10% 2kV	2020 558 90489	-
D6467, 68	BAS316	3198 010 10630	-	C2560	680pF 10% 1kV	3198 019 66810	-
D6469	BYD33J	9337 237 20133	NTE580	C2607, 09	33pF 5% 50V NPO	3198 016 03390	-
D6470	BAV99	3198 010 10620	-	# F1500	Fuse	2422 086 10914	4A, 250V, Fast Acting
D6485	BYD33J	9337 234 20133	NTE580	FB5204, 05	Ferrite Bead	3198 018 90020	-
D6486	EGP20DL-5100	9322 164 42682	-	FB5452	Ferrite Bead	3198 018 90020	-
D6487	BYD33D	9337 234 00133	NTE552	FB5521, 60	Ferrite Bead	3198 018 90010	-
D6488	EGP20DL-5100	9322 164 42682	-	FB5562	Ferrite Bead	3198 018 90020	-
D6500	GBU4JL-7002	9322 132 55667	-	FB5564	Ferrite Bead	3198 018 90010	-
D6520	BYD33D	9337 234 00133	NTE552	IC6692	Receiver	9322 127 54667	TSOP1836UH3V
D6523	1N4148	3198 010 10010	NTE519	L5001	27μH	3198 018 22790	-
D6524, 25	1N5062	3198 010 10120	NTE506	L5002	-	3198 018 18270	-
D6560	BYV29X-500	9340 555 59127	-	L5201	6.8μH	3198 018 16880	-
D6562	EGP20DL-5100	9322 164 42682	-	L5202, 41	10μH	3198 018 21090	-
D6563	BAS316	3198 010 10630	-	L5242	10μH	3198 018 11090	-
D6565	BAV70	9331 849 10215	NTE595	L5342	22μH	2422 535 97333	-
D6566	1N4148	3198 010 10010	NTE519	L5451	33μH	3198 018 73390	-
D6569, 80	BAS316	3198 010 10630	-	L5457	Horizontal Linearity	3128 138 53241	-
D6691	LTL-10224WHCR	9322 050 99682	-	L5471	3.3μH	3198 018 73380	-
D6903	1N5062	3198 010 10120	NTE506	L5472	3.3μH	3198 018 23380	-
IC7200	TDA9577H/N1/A/0819	9352 716 20557	-	L5480	33μH	2422 535 97335	-
IC7330	TDA6107Q/N2	9352 576 50112	-	L5561	27μH	3198 018 22790	-
IC7471	TDA8359J/N2	9352 701 64112	-	L5602, 03, 04	5.6μH	3198 018 15680	-
# IC7515	TCET1104(G)	9322 175 72667	-	L5861	10μH	3198 018 11090	-
IC7520	TEA1507P/N1	9352 673 56112	-	L9611	27μH	3198 018 22790	-
IC7560	L78L33ACZ	9322 134 92676	-	L9672	-	3198 036 90010	-
IC7602	M24C08-WBN6	9322 154 38682	-	L9678	-	3198 036 90010	-
IC7861	TDA9853H/V1	9352 671 19557	-	# LC5501	Filter	2422 549 43432	-
IC7901	AN7522N	9322 181 41682	-	M0232	Jack	2422 026 04747	Headphone
Q7201	BC847B	3198 010 42030	NTE2408	M0250	Jack	2422 026 04815	Assembly
Q7204	BC857B	3198 010 42150	NTE2409	# M0254	Socket	2422 500 80076	CRT
Q7441	BC857B	3198 010 42150	NTE159	R3245	39K 1% 1/8W	2322 734 63903	-
Q7443	BC557B	3198 020 40110	-	# R3340	10 5% 1/2W	2306 207 03109	-
Q7450	PDTA114ET	3198 010 44010	-	# R3341, 42	1 5% 1/3W	2306 204 03108	-
Q7460	BU4508DX	9340 550 92127	-	R3345	VDR	2322 593 13507	-
Q7461	BC337-25	3198 020 43530	NTE123AP	# R3451	10 5% 1/3W	2306 204 03109	-
Q7462	PDTC143ZT	9340 547 00215	-	R3452	10K 1% 3/5W	2312 915 11003	-
Q7463	BC327-25	3198 020 43430	NTE298	R3454	3900 1% 3/5W	2312 915 13902	-
Q7480, 82	BD135	3198 020 41010	NTE373	R3465	27K 1% 3/5W	2312 915 12703	-
Q7521	STP8NC50FP	9322 160 72687	-	R3471, 72, 73	3.3 1% 3/5W	2312 915 13308	-
Q7522	BC847B	3198 010 42030	NTE2408	R3474, 75	2200 1% 3/5W	2312 915 12202	-
Q7540	BC547B	3198 020 40030	NTE123AP	R3481	15K 1% 3/5W	2312 915 11503	-
Q7541	PDTC114ET	9340 310 10215	-	R3482	12K 1% 3/5W	2312 915 11203	-
Q7542	BC857B	3198 010 42150	NTE2409	# R3500, 01	3.3M 5% 1/2W	2322 242 13335	-
Q7561	PDTC143ZT	9340 547 00215	-	# R3506	1.5M 5% 1/2W	2322 242 13155	-
Q7580	BC857B	3198 010 42150	NTE2409	# R3508	220 20% 1/2W	3198 013 02210	-
ZD6001	BZX79-C33	3198 010 23390	NTE5036A	# R3510	4.7 Cold NTC	2122 612 00056	-
ZD6161	-	3198 010 26880	-	R3522	330K 1% 1/8W	2322 734 63304	-
ZD6206	BZX384-C6V8	3198 020 56880	-	# R3532	2200 5% 1/3W	2306 204 03222	-
ZD6445	BZX284-C10	3198 020 51090	-	R3543	82K 1% 3/5W	2312 915 18203	-
ZD6448	BZX79-B6V2	9331 668 30133	-	R3544	4700 1% 1/8W	2322 734 64702	-
ZD6453	BZX384-C6V8	3198 020 56880	-	R3630	470 1% 1/10W	2120 108 92612	-
ZD6462	-	3198 010 28280	NTE5016A	R3681	180 1% 1/10W	2120 108 92606	-
ZD6476	BZX79-C15	3198 010 21590	NTE5024A	R3682	270 1% 1/10W	2120 108 92608	-
ZD6481	BZX79-C5V6	3198 010 25680	NTE5011TI	R3683, 84	390 1% 1/10W	2120 108 92611	-
ZD6482	BZX79-C9V1	9331 177 80133	NTE5018A	R3687	75 1% 1/10W	2120 108 91437	-
ZD6483	BZX79-C33	3198 010 23390	NTE5036A	R3688	68 1% 1/10W	2120 108 92603	-
ZD6526	BZX284-C22	3198 020 52290	-	R3689	2700 1% 1/10W	2120 108 92621	-
ZD6540	BZX79-B6V2	9331 668 30133	-	# RL1515	Relay	2422 132 07444	Degaussing
ZD6541	PDZ-10B	3198 020 51090	-	SP3100, 01	Speaker	2422 264 00411	16 Ohms, 5W
ZD6570	BZX384-C6V8	3198 020 56880	-	# SP3507	Surge Protector	2422 549 43073	-
Item No.	Function/Rating	Mfr. Part No.	Notes	SW1600	Switch	2422 128 02742	Volume -
# AC01	Line Cord	3139 010 03831	AC, Polarized	SW1601	Switch	2422 128 02742	Volume +
# AC12	Degaussing	2422 549 44489	-	SW1602	Switch	2422 128 02742	Channel -
				SW1603	Switch	2422 128 02742	Channel +
				SW1606	Switch	2422 128 02742	Power
				# T5445 (1)	Horizontal Output	2422 531 02506	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
T5461	Horizontal Drive	2422 531 02465	-
# T5520	Power	2422 531 02459	-
# TH3504	3 Cold PTC	2120 661 00025	-
TU1000	Tuner	2422 542 90098	-
# V1010	CRT	9322 151 39682	A63QDB891X01
X1002	Filter	2422 549 44518	SAW
X1200	Trap	2422 549 40807	4.5MHz
X1660	Crystal	2422 543 01203	12MHz
X1861	Resonator	2422 540 98344	514.5kHz
	Fuse Holder	2422 088 00271	For F1500 (2 Used)
	PC Board	3139 177 27901	Main
	PC Board	3139 127 23881	Side Jack Panel
	Transmitter	3139 228 86462	Remote, RC19335004/01

For SAFETY use only equivalent replacement part.
(1) Screen and focus controls are part of T5445.

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

Important Parts Information

- Parts not listed in the parts list are commonly available at your local electronics parts retailer.
- 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

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors.

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