

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.

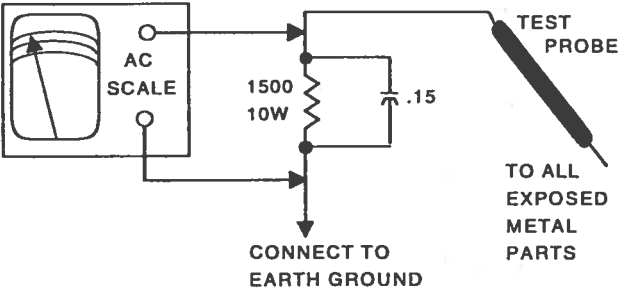
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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

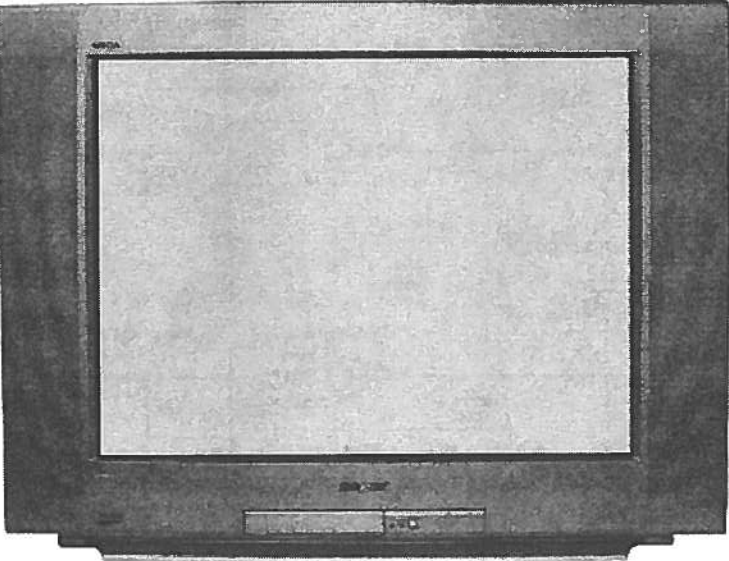
Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt 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.



PHOTOFACT[®] Technical Service Data
SILVER

SONY

Model KV-32FS120 (Chassis SCC-S59K-A, SCC-S61P-A)



SET 5039

MODEL KV-32FS120 (CHASSIS SCC-S59K-A, SCC-S61P-A)

SONY

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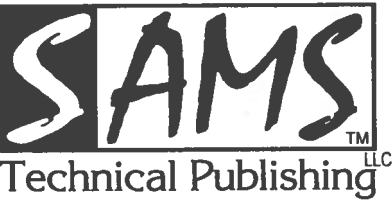
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Test Equipment 1

Tuner Information 1

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list



JULY 2005 SET 5039

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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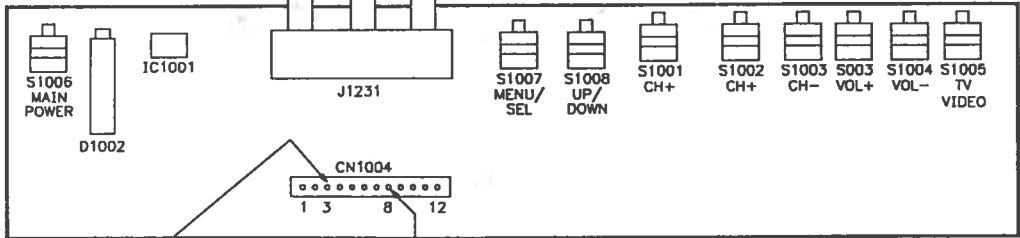


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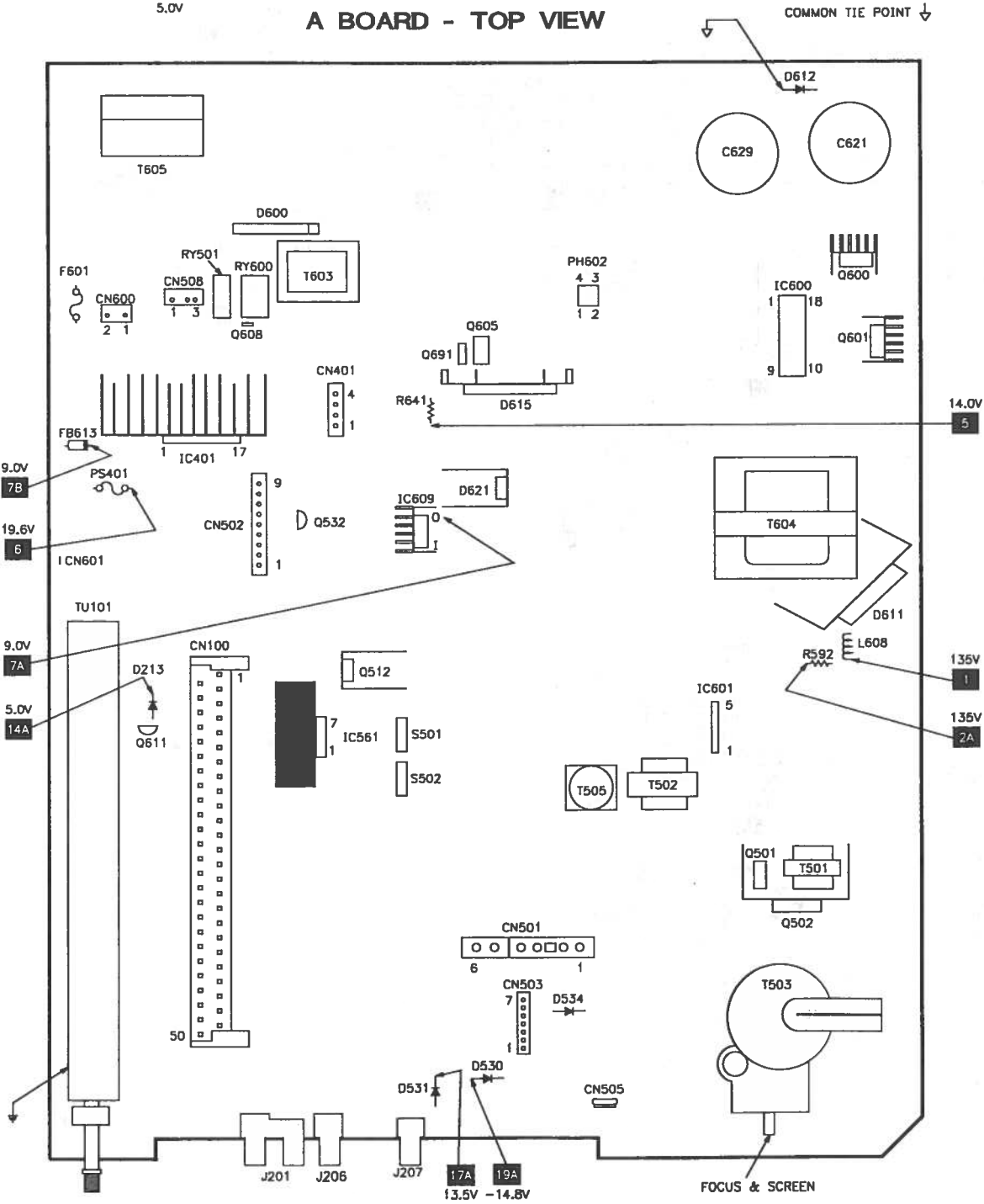
PLACEMENT CHART

HS BOARD

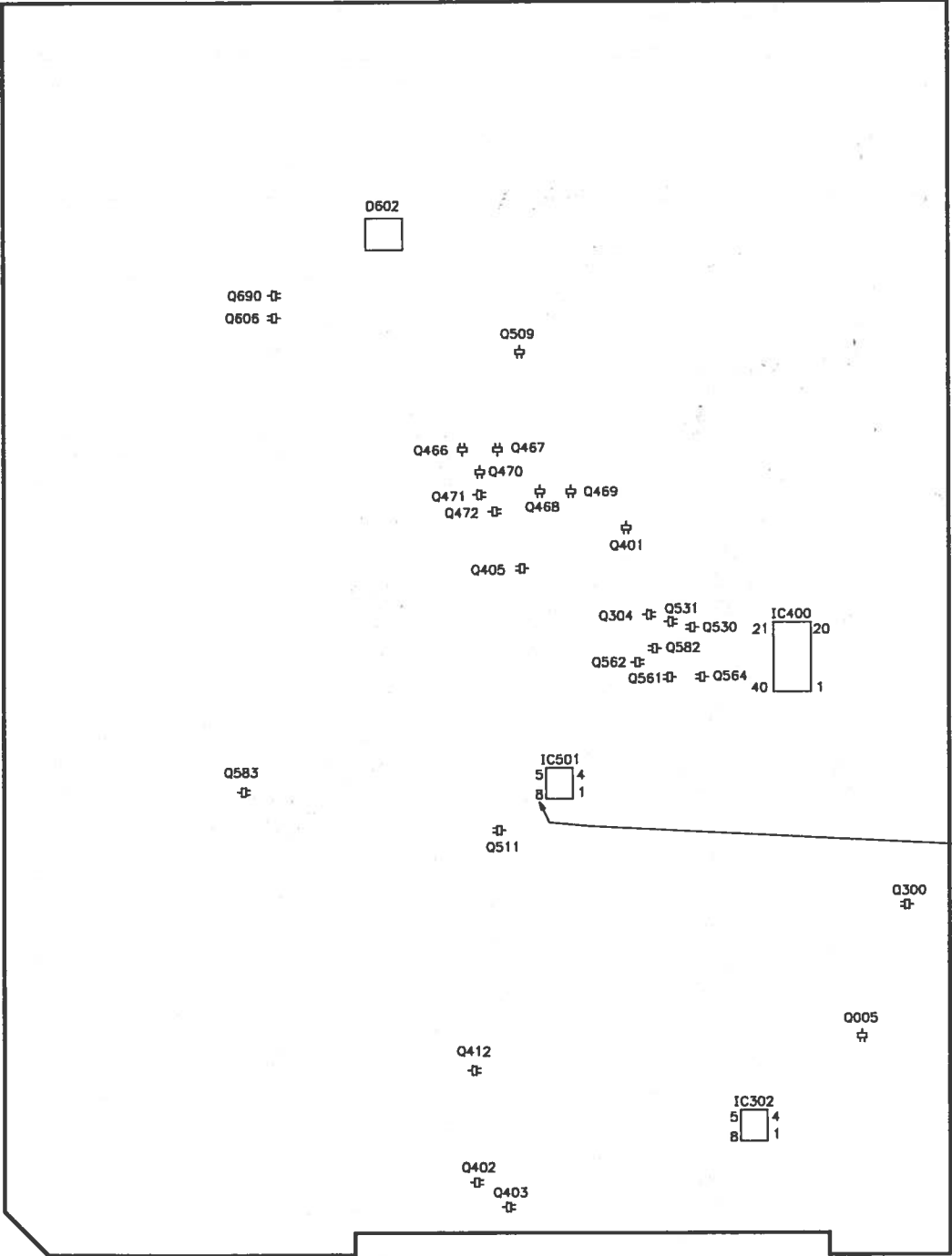


20B
5.0V

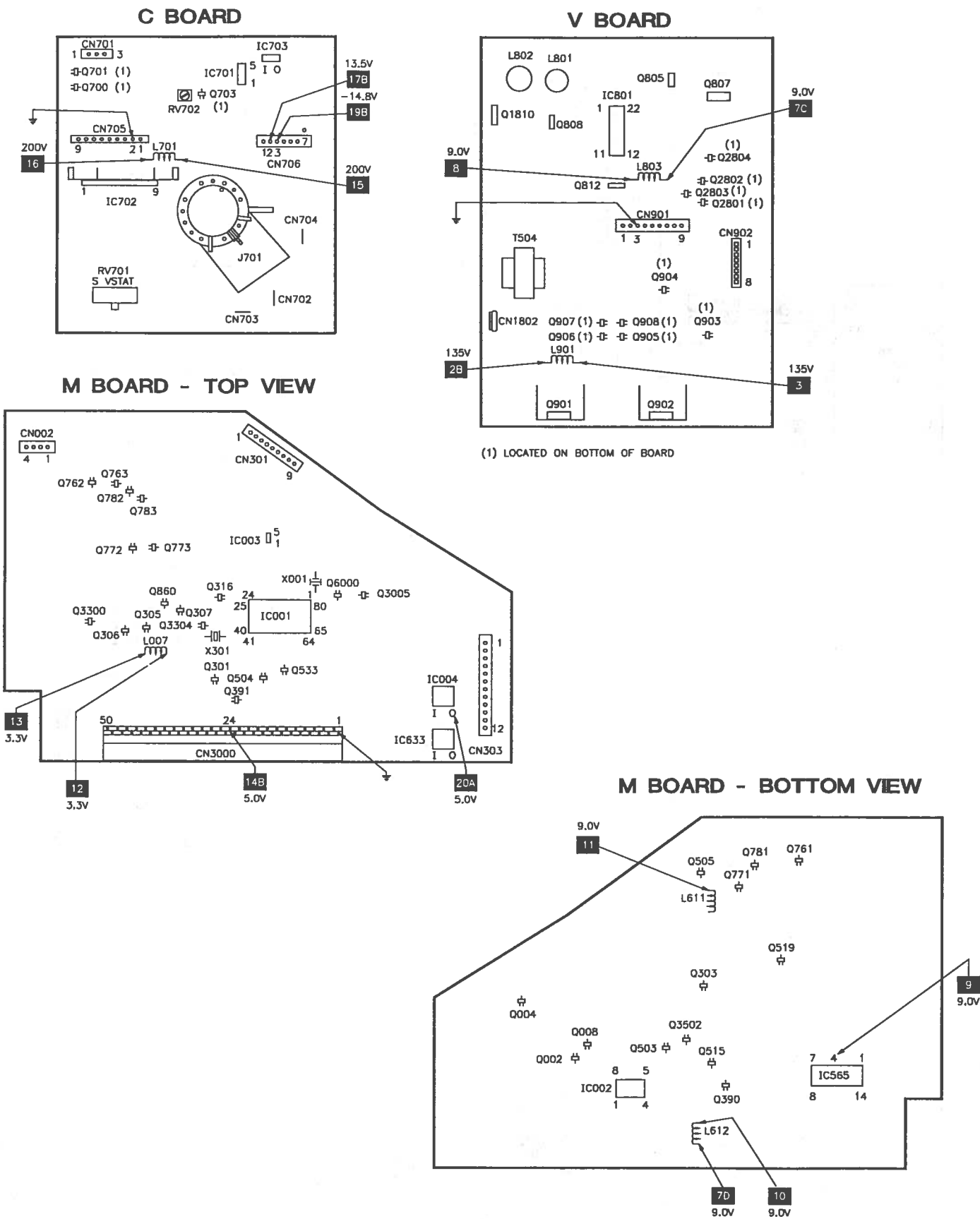
A BOARD - TOP VIEW



A BOARD - BOTTOM VIEW



PLACEMENT CHART continued



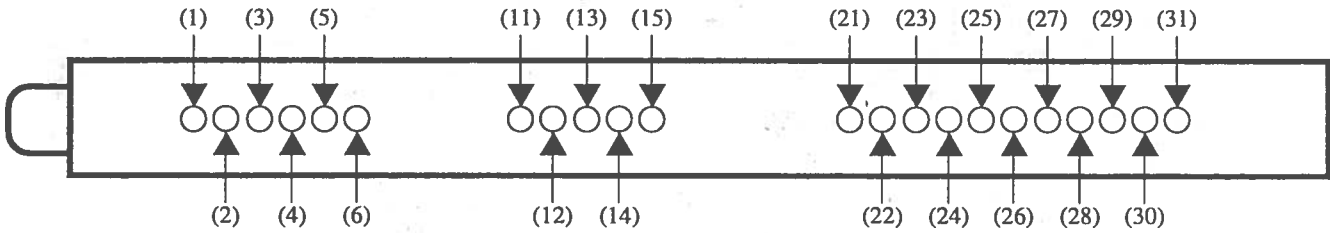
TUNER INFORMATION

TUNER/IF MODULE VOLTAGE CHART

Pin	Pin Name	Voltage	Pin	Pin Name	Voltage	Pin	Pin Name	Voltage
(1)	9V	8.7V	(13)	9V	8.7V	(25)	MODE	.02V
(2)	30V	31.0V	(14)	AFT OUT	6.9V	(26)	F MONO	.02V
(3)	5V	5.0V	(15)	GND	0V	(27)	NC	0V
(4)	SCL	4.9V	(21)	DET OUT2	5.2V	(28)	MUTE	1.8V
(5)	SDA	4.9V	(22)	DET OUT1	5.2VV	(29)	NC	0V
(6)	AS	0V	(23)	ST IND	.02V	(30)	R OUT	4.1V
(11)	RF AGC	7.9V	(24)	SAP IND	5.2V	(31)	L OUT	4.1V
(12)	VIF	0V						

NOTE: Voltages do not change on different bands.

TUNER/IF MODULE VOLTAGE CHART



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

SCHEMATIC COMPONENT LOCATION GUIDE

C003	D46	C313	B6	C515	E7	C650	C39	C1001	E40	D311	A6	D690	C34	IC003	D45	L801	C23	Q608	C34	R050	B46	R312	C14	R503	E3	R576	E9	R703	D28	R821	D19	R1202	C45	R3900	A7
C004	D46	C322	C44	C516	E7	C651	E37	C1234	D49	D324	A12	D701	B30	IC004	E39	L802	C22	Q611	C42	R053	B46	R314	C14	R504	E4	R580	D11	R704	D30	R822	D20	R1203	C45	R3901	B12
C005	C8	C325	C10	C517	E7	C652	D37	C1235	D49	D325	A6	D702	A30	IC302	B5	L803	B42	Q690	E37	R054	D46	R316	B15	R506	E15	R583	E34	R705	D29	R824	E20	R1234	B11	R3902	A7
C006	C8	C326	C10	C518	E8	C653	C34	C1501	E6	D351	C13	D703	B30	IC400	A51	L901	B39	Q691	C34	R059	C46	R318	C15	R507	E4	R584	D33	R706	D30	R825	E20	R1235	D49	R3910	D28
C007	B11	C330	C13	C519	E14	C656	E36	C1815	E21	D390	C12	D704	B31	IC401	A55	L1805	E22	Q700	D28	R060	B8	R319	B14	R508	E13	R586	E34	R707	C30	R826	C21	R1236	D49	R3990	B10
C008	C11	C337	C9	C520	E15	C658	E37	C1816	E22	D400	B54	D705	D43	IC501	D14	L3003	D47	Q701	C28	R061	E46	R320	A15	R509	E7	R589	E34	R708	A30	R827	D19	R1237	D49	R513A	C13
C009	D2	C351	C13	C522	E14	C661	A43	C1817	E22	D405	A1	D762	A27	IC501	E13	L3004	C6	Q703	D29	R062	D47	R324	C10	R510	E8	R590	D7	R709	B30	R828	D20	R1238	D49	R547A	D5
C010	E2	C362	B4	C523	E2	C665	C44	C1818	E22	D414	E53	D763	A25	IC561	D8	L3609	B42	Q761	A26	R063	E46	R326	B10	R512	E9	R592	A40	R710	B30	R829	D20	R1510	D34	R6001	C47
C011	D3	C365	C36	C525	E15	C666	C44	C1819	E22	D422	B52	D772	B27	IC565	D4	N/S	C30	Q762	A26	R070	B47	R328	A19	R513	E3	R593	D33	R711	B30	R833	D21	R1511	D45	R6002	C47
C012	D46	C366	C4	C527	E5	C669	B39	C1820	E22	D423	B52	D773	B25	IC600	B37	NECK	B24	Q763	A27	R076	C33	R334	A19	R514	E2	R594	D33	R712	A30	R834	D21	R1845	E22	R6003	C47
C014	B8	C367	A10	C528	E13	C670	B39	C2801	E18	D424	B52	D782	B27	IC601	D37	P600	A33	Q771	B26	R080	E46	R335	A19	R515	C14	R595	D33	R713	B30	R837	D22	R1846	E22	R6004	C48
C015	C7	C368	C4	C529	A44	C672	C38	C3049	C33	D425	B52	D783	B25	IC609	A41	PH602	D36	Q772	B26	R081	E46	R337	B9	R517	E14	R596	D33	R714	C29	R840	C19	R1847	E22	R860A	D16
C019	B9	C370	D3	C530	E13	C690	C34	C3051	A2	D500	E6	D804	C22	IC633	C42	PS401	C40	Q773	B27	R082	E45	R341	A17	R518	E13	R598	C34	R715	B31	R841	C20	R1848	E22	R932A	A21
C021	B7	C390	C11	C531	D13	C701	E44	C3052	E45	D501	D34	D805	C22	IC701	C29	Q002	D13	Q781	B26	R083	E45	R342	A18	R519	E14	R599	C33	R716	B31	R842	C19	R1849	E22	RV701	D31
C022	D46	C400	D52	C532	D13	C702	C30	C3053	E45	D503	E6	D806	C22	IC702	B29	Q004	A2	Q782	B26	R084	A2	R344	A17	R520	E9	R603	B35	R718	A31	R851	C12	R1850	E22	RV702	D29
C023	E40	C401	C51	C534	E42	C703	E44	C3054	E46	D504	E6	D807	C22	IC703	E28	Q005	C1	Q783	B27	R085	C2	R351	C13	R521	E3	R604	C34	R719	C30	R852	D4	R1851	E22	RY501	A35
C033	D2	C402	D51	C535	C34	C704	B30	C3057	B46	D505	E9	D808	E20	IC801	C20	Q008	C33	Q805	C23	R086	B1	R352	C13	R523	E13	R606	E37	R720	C28	R855	D21	R1852	E23	RY501	D34
C041	E40	C403	B51	C537	E42	C705	D44	C3307	B7	D506	E9	D813	C20	IC1001	A45	Q300	B4	Q807	C21	R087	B1	R359	D14	R524	E13	R607	E37	R721	D28	R856	D21	R2800	E18	RY600	A35
C047	D13	C404	B51	C539	E43	C706	D44	C3319	D12	D508	E14	D901	B23	J201	B49	Q301	C14	Q808	C22	R089	B1	R370	C10	R525	E13	R608	E37	R722	A28	R857	C20	R2801	E18	RY600	B35
C048	D14	C405	C51	C540	A40	C708	C28	C3509	C12	D509	E3	D902	A23	J201	B49	Q303	A14	Q812	C19	R090	C33	R371	C10	R526	E1	R609	B40	R723	B28	R860	D21	R2802	E18	S501	E9
C049	B1	C406	E51	C541	D42	C709	D28	C3520	B44	D512	C13	D903	B20	J201	C4	Q304	A19	Q860	D15	R091	C33	R372	C10	R528	E13	R610	E37	R724	B28	R861	D16	R2803	E19	S502	E9
C050	B1	C407	C51	C542	D4	C710	D29	C3534	E12	D513	C13	D905	A21	J201	C4	Q305	B15	Q901	B23	R092	C33	R382	B7	R529	D13	R611	E37	R725	D29	R862	E1	R2804	E19	S1001	B45
C051	B3	C408	B51	C545	D12	C711	C29	C3536	D13	D515	E15	D906	A21	J201	C49	Q306	A18	Q902	A23	R093	C47	R390	C4	R530	D13	R612	A36	R726	D29	R864	C20	R2805	E19	S1002	B45
C052	B1	C409	C51	C546	D11	C713	E29	C3539	B43	D516	E13	D907	A21	J201	C49	Q307	A17	Q903	A21	R096	A47	R391	A10	R531	D13	R613	E38	R727	D28	R866	C19	R2807	E18	S1003	B45
C053	A42	C410	B51	C547	D11	C714	D29	C3542	D12	D518	E13	D908	A21	J206	A12	Q316	B6	Q904	A20	R097	B47	R393	A10	R532	D13	R615	A37	R732	D28	R870	C19	R2808	E18	S1004	B45
C054	C2	C411	B51	C551	D2	C715	C31	C3553	D1	D519	D12	D1001	A45	J206	A6	Q390	C12	Q905	B22	R099	B2	R394	C4	R533	D14	R616	D37	R733	D28	R876	C22	R3057	B46	S1005	B45
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C064	E46	C416	C51	C561	E42	C782	A25	C3613	D13	D526	D14	D1233	B11	J207	E55	Q405	B52	Q2801	E18	R110	D47	R408	E54	R538	D42	R626	B36	R764	A26	R902	B23	R3305	B11	SP2	B56
C080	B1	C417	A50	C563	E35	C802	E19	C3638	B44	D530	E42	D1235	D50	J1231	A11	Q412	E54	Q2802	E19	R112	B46	R411	A50	R540	E2	R628	A36	R765	A25	R903	B23	R3308	B9	T501	E4
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C090	D47	C420	C51	C568	D8	C804	C23	C6003	C48	D534	D42	D1809	E21	J1231	D49	Q467	B53	Q2804	E18	R116	C9	R422	A1	R542	E14	R630	A36	R767	A27	R905	B23	R3317	C14	T503	C10
C091	D47	C422	A50	C581	A35	C805	C22	D002	C8	D535	E13	D1810	E21	JR317	B6	Q468	C52	Q3005	E45	R131	C47	R424	B52	R543	D12	R631	C36	R768	A27	R906	A23	R3391	C11	T503	D41
C092	C6	C450	C40	C588	E33	C808	E20	D004	B46	D551	E13	D1811	E21	L002	C8	Q469	C52	Q3300	A18	R201	A46	R425	B52	R544	E15	R632	C37	R769	A25	R907	A24	R3392	C12	T504	E23
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C096	C9	C458	B53	C602	B37	C811	C23	D009	C1	D561	D8	D2802	E18	L005	C10	Q472	B54	Q6000	C47	R206	C3	R457	A53	R547	E12	R641	B40	R772	B26	R910	B24	R3517	D12	T604	A39
C097	C9	C461	B54	C603	A34	C812	D21	D044	A47	D580	D33	D3509	C12	L006	C10	Q501	E3	R003	B11	R207	C49	R458	B53	R548	D12	R647	C37	R773	B26	R911	A20	R3518	D15	T605	A34
C098	C43	C463	B54	C604	A39	C813	B44	D045	B47	D588	E33	F601	A33	L007	C43	Q502	E4	R004	D2	R208	C50	R464	B54	R549	D12	R650	C36	R774	C26	R912	A20	R3519	D15	TH501	D9
C099	C44	C466	C53	C608	A34	C821	D21	D050	C42	D589	D34	FB302	A2	L009	B3	Q503	E2	R005	D47	R209	C50	R466	C53	R550	D12	R651	C36	R775	C25	R913	A20	R3524	D2	THP501	A34
C100	B11	C467	B53	C609	A39	C823	C20	D051	C42	D590	E33	FB501	E4	L011	C10	Q504	E2	R006	D46	R210	C50	R467	C53	R551	D11	R658	B37	R776	B26	R914	B20	R3525	E1	TU001	B1
C101	E38	C468	C52	C612	C42	C824	C20	D052	E39	D600	A35	FB502	E14	L500	A35	Q505	D27	R015	D46	R213	C7	R468	B53	R552	E4	R659	C37	R777	B27	R915	A20	R3527	D1	V901	B31
C102	E38	C470	E53	C616	B39	C826	C20	D110	E39	D602	E36	FB503	E15	L501	E8	Q509	D33	R027	C12	R217	B49	R													

A.



(1) SEE SAFETY RELATED ADJUSTMENTS

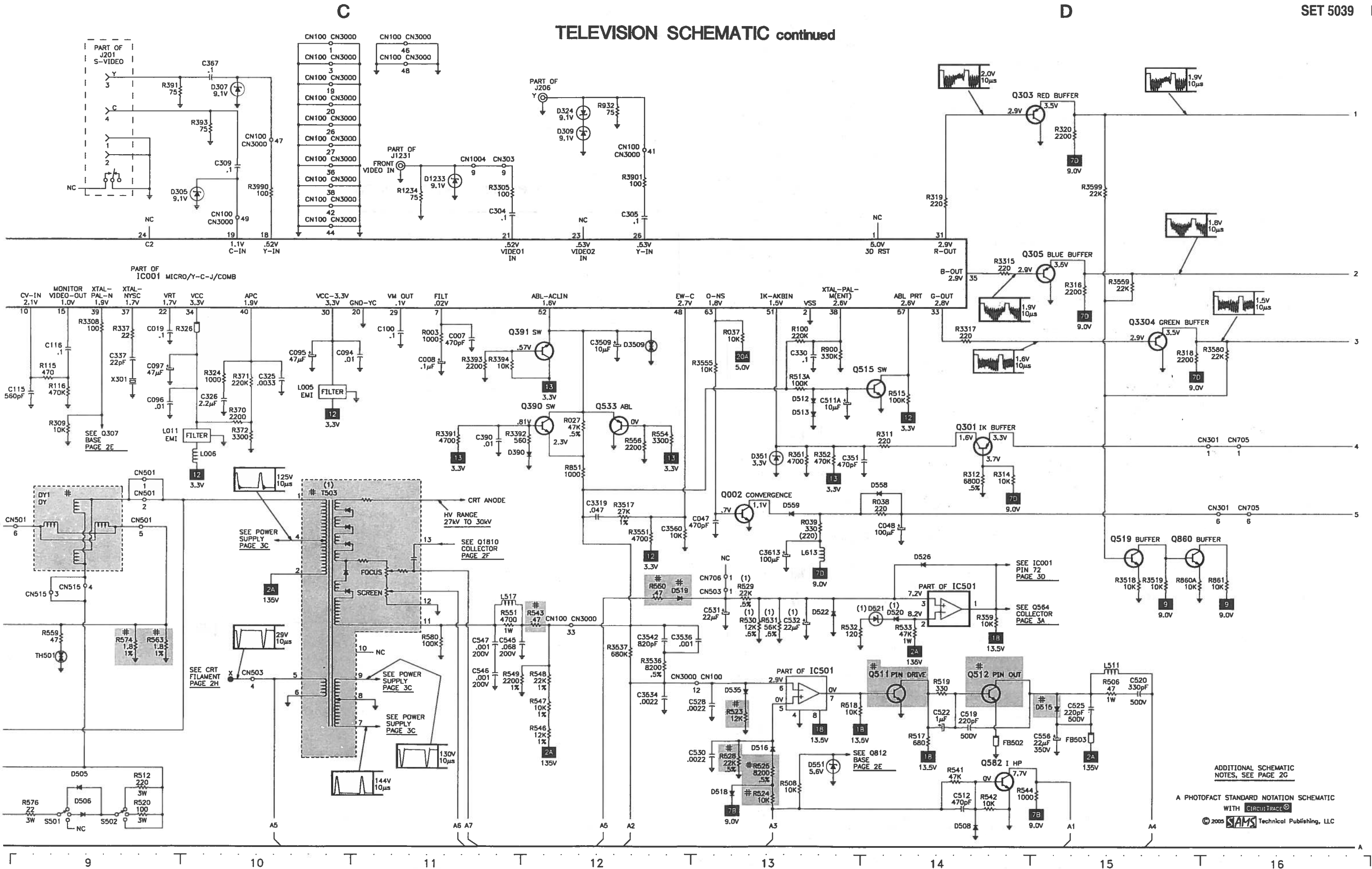
ADDITIONAL SCHEMATIC

A PHOTOFACCT STANDARD NOTATION SCHEMATIC

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TELEVISION SCHEMATIC continued



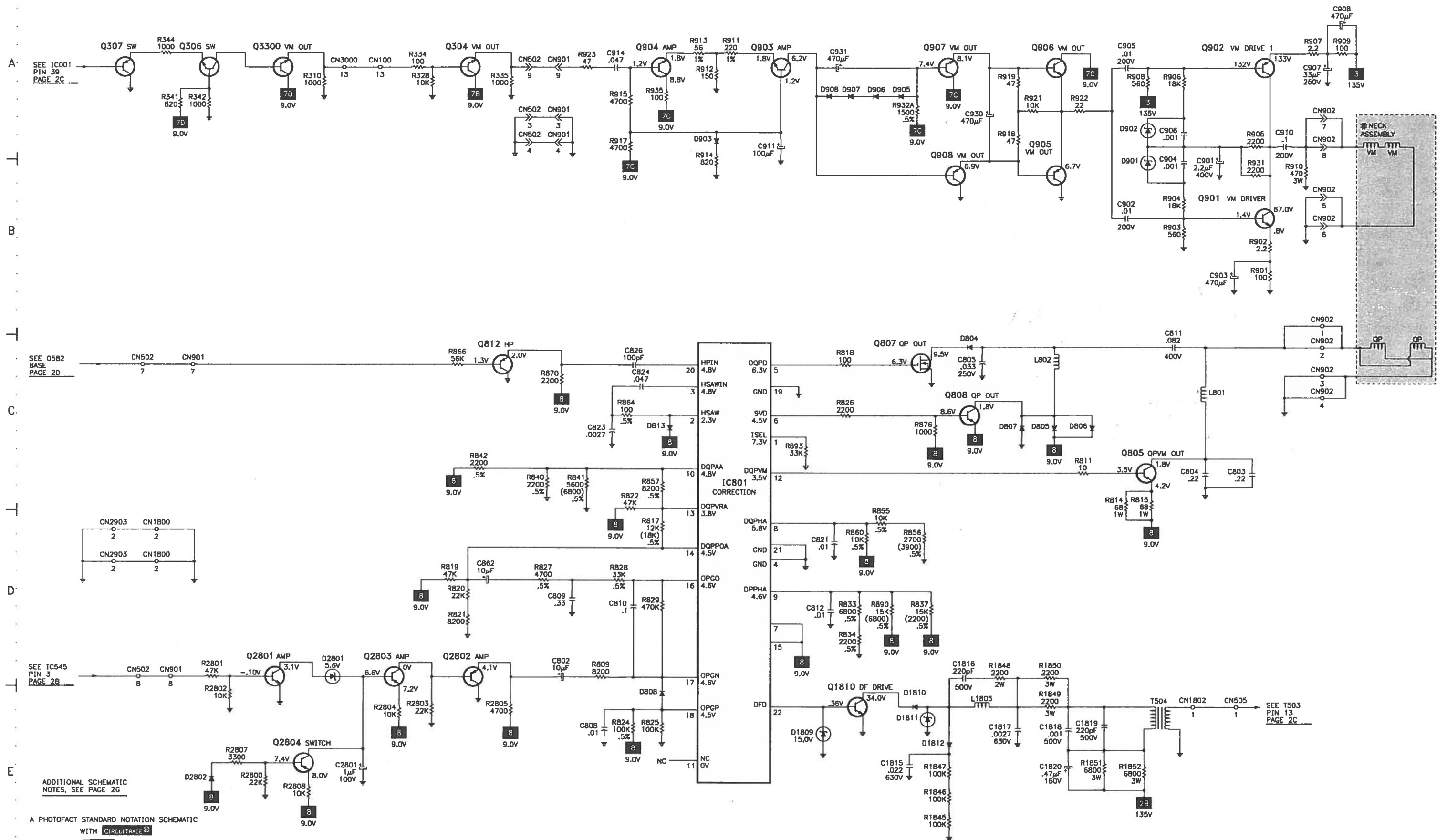
ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2G

A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUIT TRACE
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E

VM SCHEMATIC

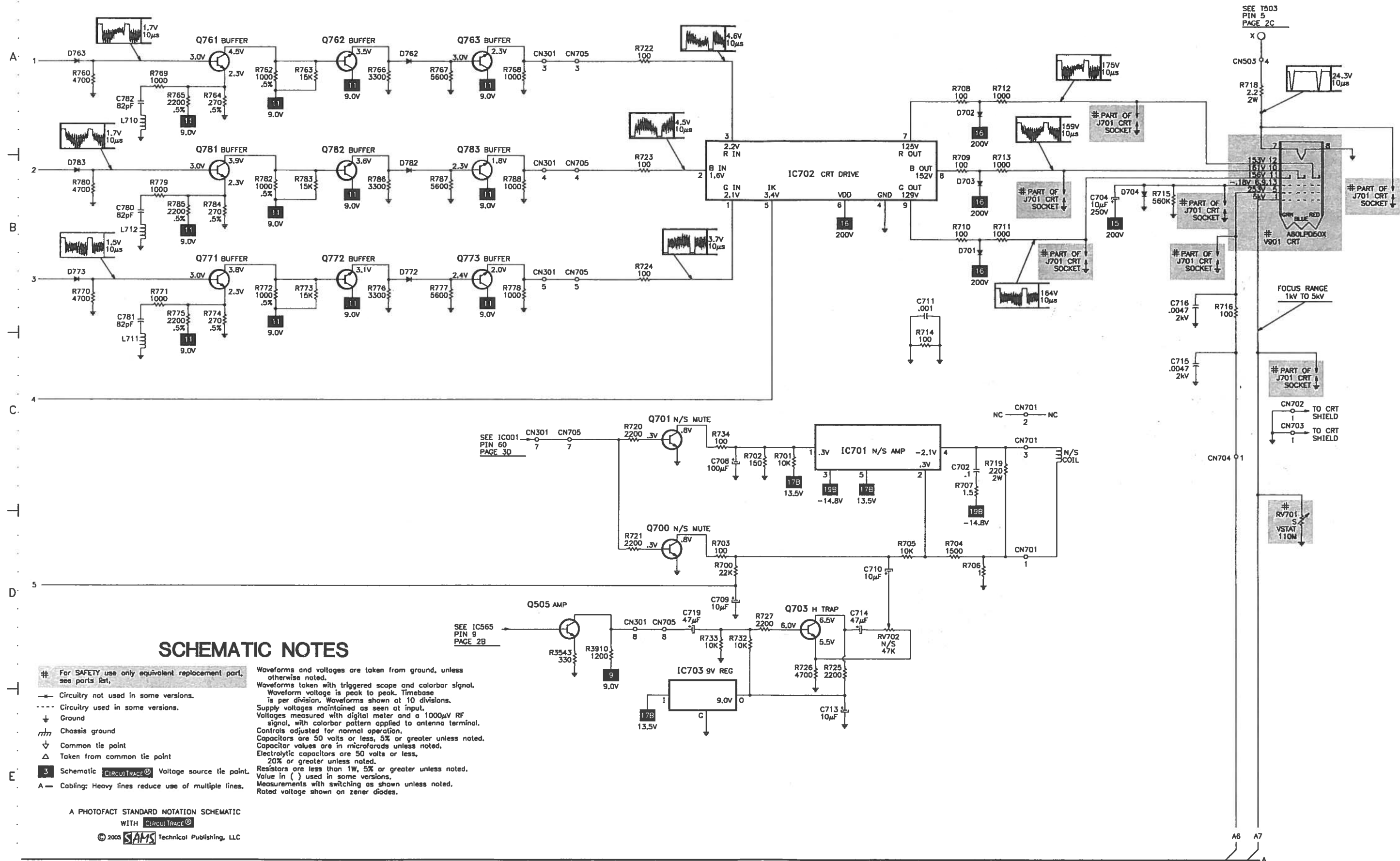
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CRT SCHEMATIC

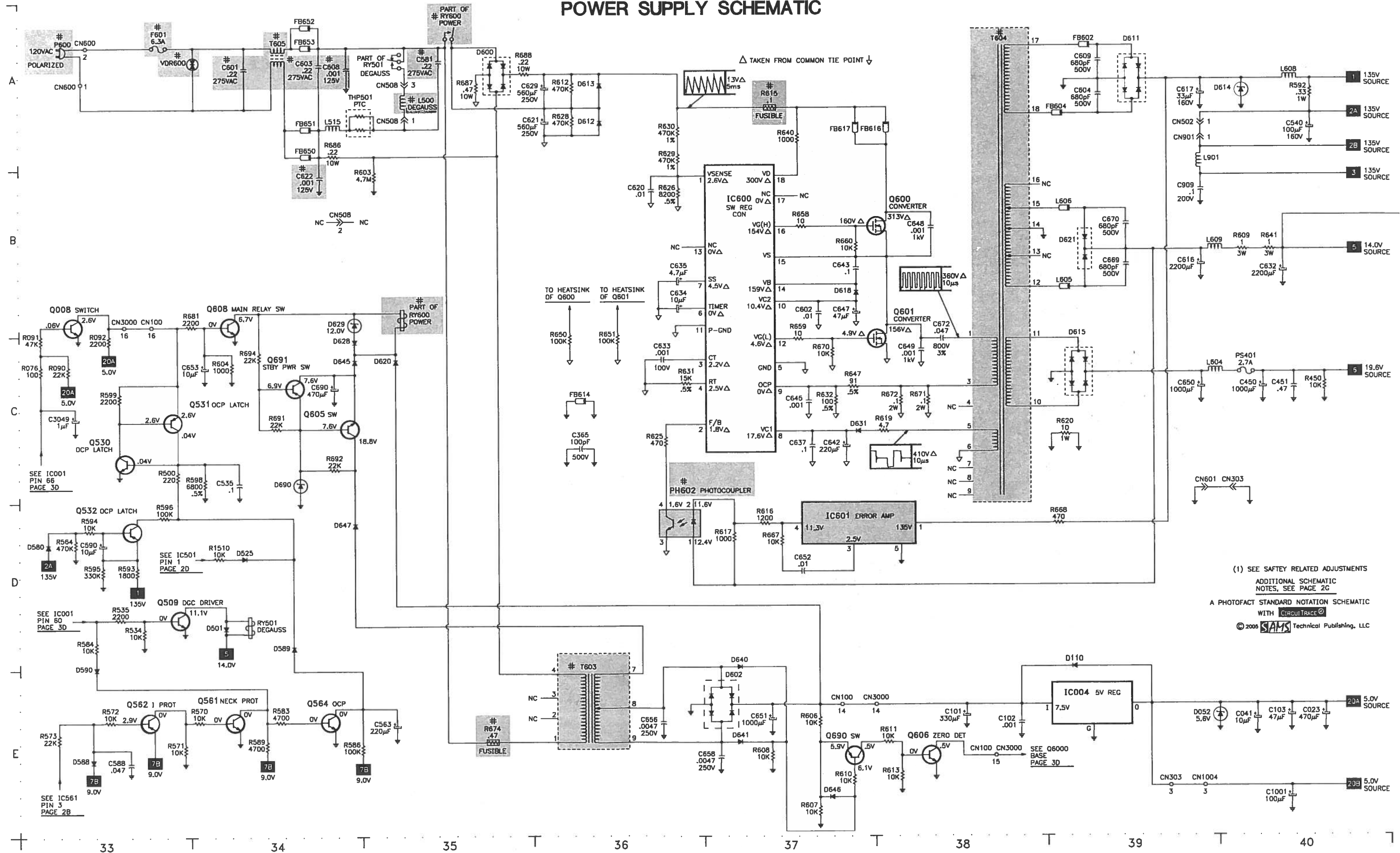
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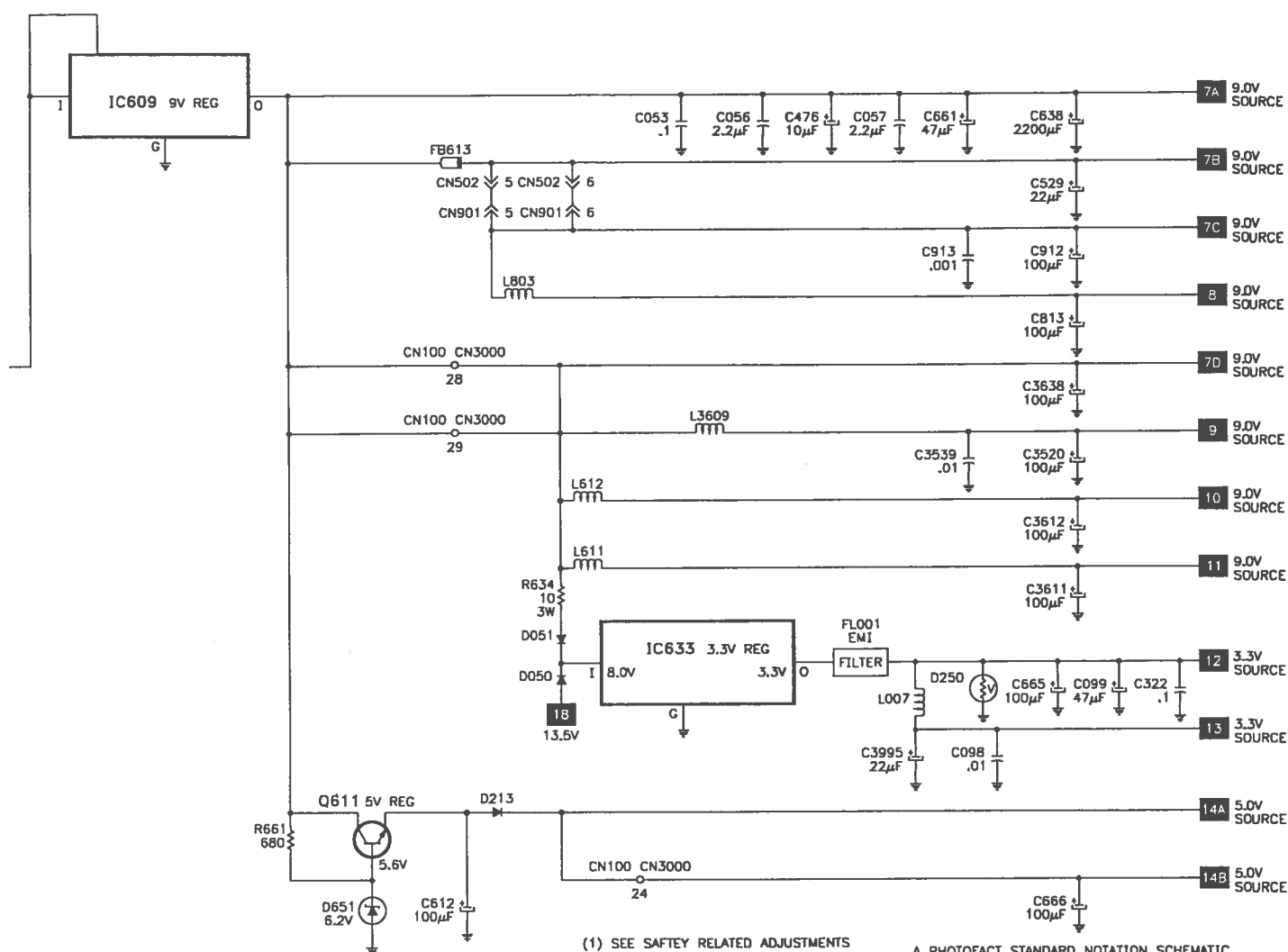
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MODEL KV-32FS120 (CHASSIS SCC-S59K-A, SCC-S61P-A)

B



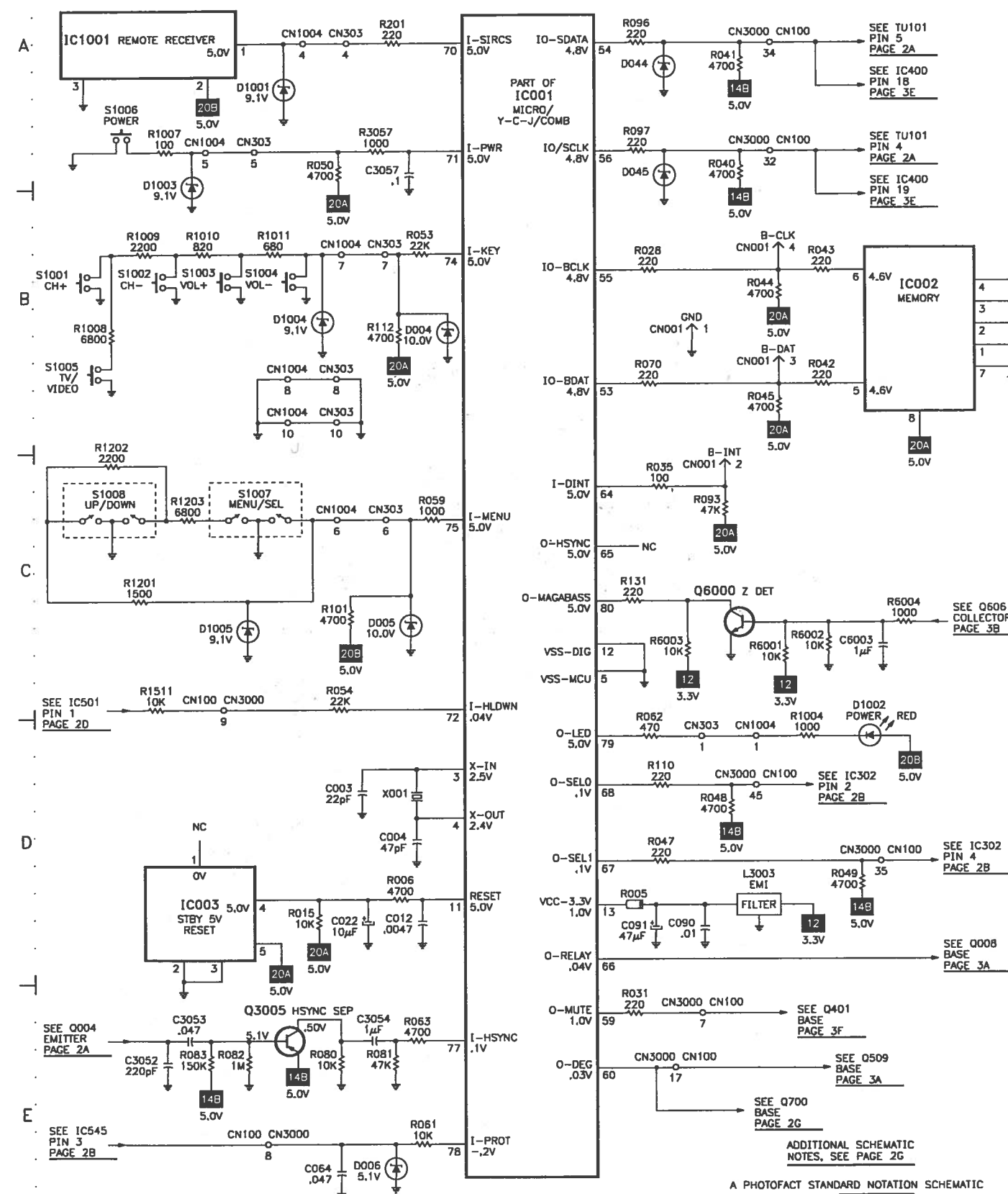
C

POWER SUPPLY SCHEMATIC continued

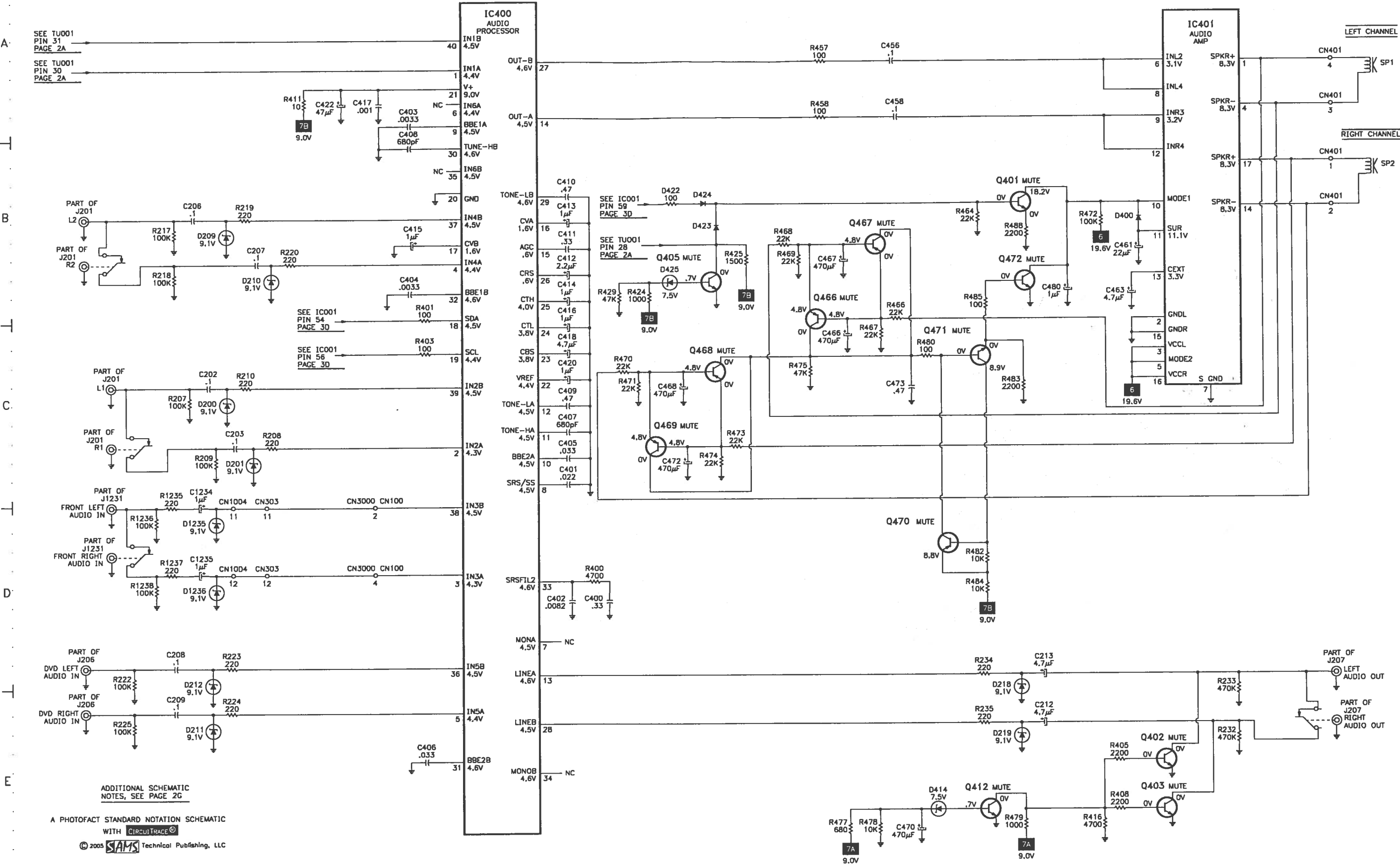


D

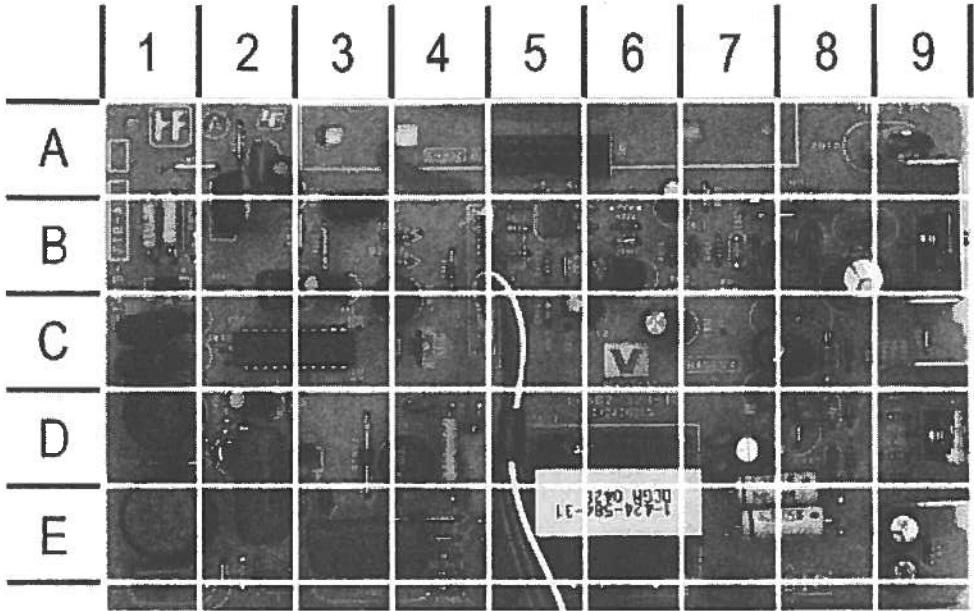
SYSTEM CONTROL SCHEMATIC



AUDIO SCHEMATIC

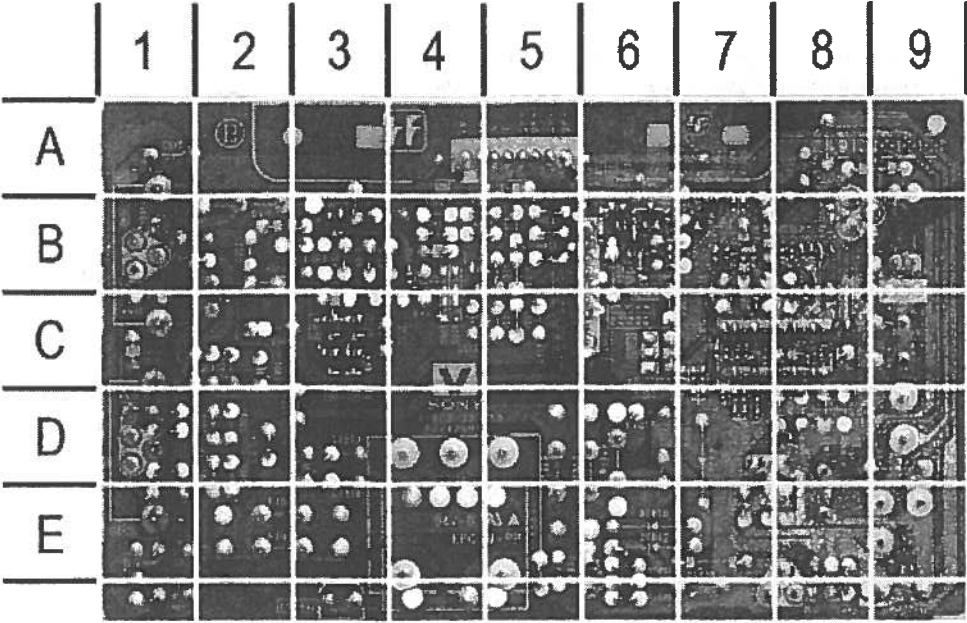


V BOARD



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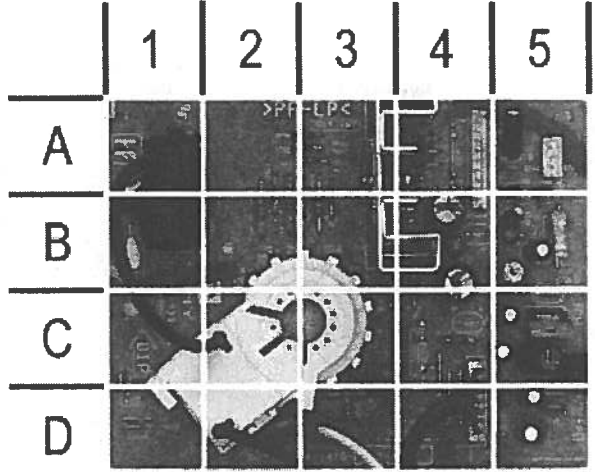
V BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE									
C802	A2	C912	C5	D813	D2	Q901	D9	R913	B5
C803	C1	C913	C5	D901	D8	Q902	B9	R914	B5
C804	C1	C914	B5	D902	D8	Q1810	E2	R915	B5
C805	E1	C930	C6	D903	B5	R811	B2	R917	C5
C810	B2	C931	B6	D1809	E2	R814	B1	R918	B6
C811	D2	C1815	E3	D1810	E4	R815	B1	R919	B7
C813	D2	C1816	D4	D1811	D3	R826	D2	R921	B7
C823	A2	C1817	E5	D1812	E4	R866	B4	R922	B7
C862	B3	C1818	D7	D2801	B4	R901	E9	R923	B5
C901	E9	C1819	D7	D2802	B4	R902	D9	R931	D9
C902	B8	C1820	D7	IC801	C2	R903	B8	R935	C5
C903	E9	C2801	B3	L801	D1	R904	D9	R1845	E4
C904	D8	CN901	C4	L802	E1	R905	D9	R1846	E4
C905	B8	CN902	A5	L803	C4	R906	C8	R1847	E4
C906	D8	CN1802	E7	L901	D7	R907	B9	R1848	D4
C907	B8	D804	D1	L1805	D4	R908	C8	R1849	D5
C908	C7	D805	E2	Q805	B1	R909	C8	R1850	D4
C909	B8	D806	E3	Q807	B2	R910	A8	R1851	E8
C910	A9	D807	E3	Q808	D3	R911	B6	R1852	E8
C911	A6	D808	B2	Q812	C4	R912	B5	T504	E6



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V BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE							
C808	B8	Q907	C3	R825	B8	R864	C8
C809	B8	Q908	C3	R827	B7	R870	B7
C812	D7	Q2801	B6	R828	B7	R876	D8
C821	D7	Q2802	B6	R829	C7	R890	C7
C824	C8	Q2803	B6	R833	D7	R893	C8
C826	B8	Q2804	B7	R834	D7	R932A	C3
D905	C4	R809	C8	R837	C7	R2800	B6
D906	C4	R817	C7	R840	D7	R2801	B6
D907	B4	R818	C8	R841	D7	R2802	B6
D908	B4	R819	C7	R842	C7	R2803	B6
Q903	B3	R820	C7	R855	D7	R2804	B6
Q904	B4	R821	B8	R856	D7	R2805	B7
Q905	C3	R822	C7	R857	C7	R2807	B6
Q906	C3	R824	C7	R860	D7	R2808	B7

C BOARD

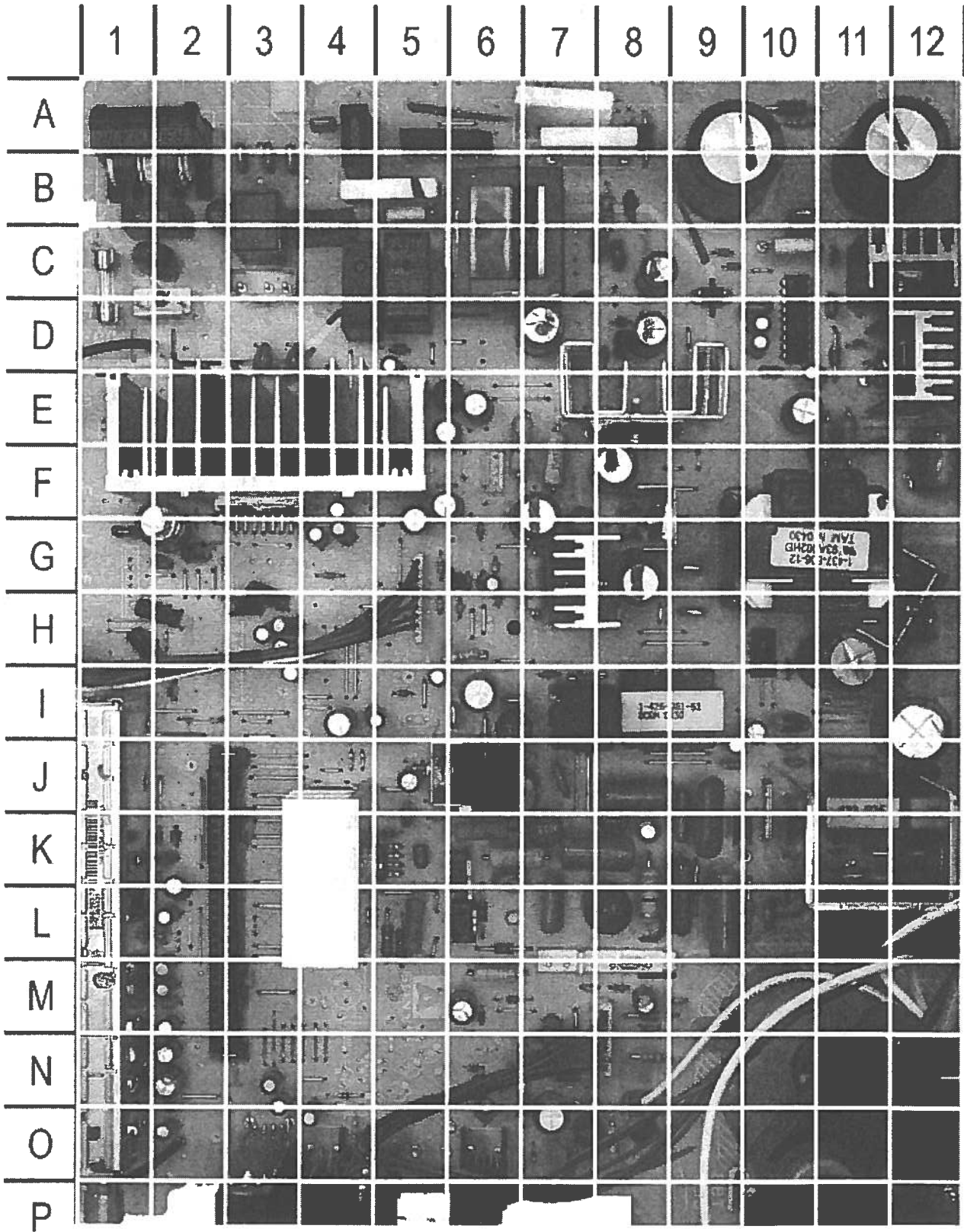


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C BOARD, GRIDTRACE LOCATION GUIDE					
C701	D5	D703	B3	R712	B2
C702	D5	D704	C4	R713	B3
C703	D5	D705	B4	R714	C4
C704	B4	IC701	C5	R715	C3
C705	B4	IC702	A3	R716	D3
C706	A4	IC703	C5	R718	C4
C708	C5	J701	C2	R719	B5
C709	A5	L701	B4	R720*	A5
C710	B5	Q700*	A5	R721*	A5
C711	D5	Q701*	A5	R722	A4
C713	C5	Q703*	C5	R723	A4
C714	C5	R700	A5	R724	A4
C715	D2	R701*	C5	R725*	C5
C716	D3	R702*	C5	R726*	C5
C719	B5	R703*	A5	R727*	C5
CN701	A5	R704	B5	R732*	C5
CN702	D1	R705	B5	R733*	C5
CN703	C1	R706	A5	R734*	B5
CN704	D3	R707	D5	RV701	A1
CN705	B4	R708	A3	RV702	B5
CN706	C4	R709	A3		
D701	B3	R710	A3		
D702	B2	R711	B2		

* Located on bottom of board.

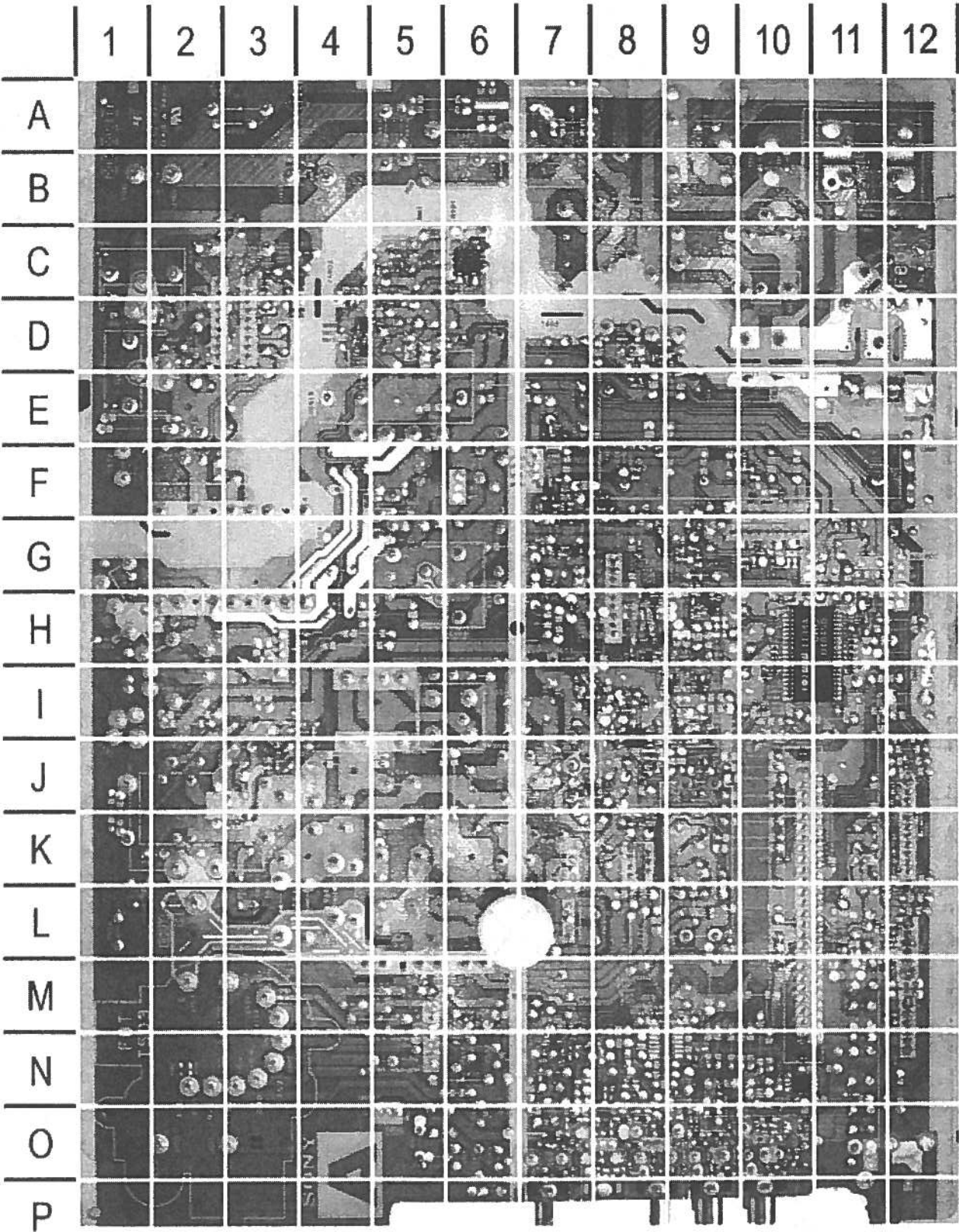
A BOARD - TOP VIEW



A BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C049	M2	C522	J6	C649	E11	D618	D11	Q501	J10	R584	H5
C050	N2	C523	I10	C650	D7	D621	G8	Q502	L11	R592	I11
C051	M2	C525	J6	C651	C8	D631	F10	Q512	J5	R593	H6
C054	N2	C526	I6	C653	D5	D645	D8	Q532	G6	R594	G6
C055	M2	C527	L10	C656	C8	D647	C7	Q600	C12	R595	G6
C212	N6	C529	I5	C658	C8	D651	K2	Q601	D12	R596	G5
C213	N6	C531	N7	C661	L2	D690	D7	Q605	D8	R603	B8
C362	O2	C532	I5	C669	F8	F601	C1	Q608	D5	R609	F7
C365	P7	C534	J5	C670	G8	FB501	K12	Q611	K2	R612	A8
C366	O4	C537	N7	C672	F12	FB502	I6	Q691	D8	R615	C10
C368	O3	C539	O7	C690	D8	FB503	I6	R085	G7	R619	F10
C412	I3	C540	I12	C1501	K9	FB505	L12	R403	H2	R620	E9
C413	H2	C541	M8	CN100	J2	FB602	G12	R411	G4	R628	A10
C414	H3	C545	O7	CN401	F6	FB604	H11	R472	F4	R629	C9
C415	H1	C546	O7	CN501	M8	FB613	G1	R484	G6	R630	C9
C416	H3	C547	O7	CN502	H5	FB614	E4	R503	J10	R640	C11
C418	H3	C553	L7	CN503	N8	FB616	B10	R504	L12	R641	F7
C420	H3	C554	L9	CN505	N8	FB617	C10	R506	J7	R658	D11
C422	H3	C561	J4	CN600	D1	FB650	B3	R507	K11	R659	D11
C450	G1	C563	I4	CN601	I1	FB651	B3	R509	I7	R661	K2
C451	G2	C565	K4	CN508	C3	FB652	B3	R510	L8	R668	I10
C461	G4	C568	K5	D009	N2	FB653	A4	R512	L5	R671	E11
C463	G4	C581	B4	D213	K2	IC401	F3	R517	J5	R672	E11
C466	E6	C588	K5	D218	N6	IC561	K5	R519	K5	R674	B5
C467	E5	C590	G6	D219	N6	IC600	C10	R520	K6	R686	B5
C468	F5	C601	B1	D310	N4	IC601	H10	R533	H6	R687	A7
C470	M6	C603	A4	D414	M6	IC609	G7	R536	N8	R688	A7
C472	F5	C604	H12	D500	L10	J201	P3	R537	N7	RY501	C4
C476	N3	C608	D3	D503	L9	J206	P4	R538	M9	RY600	C5
C480	F4	C609	G12	D504	K10	J207	P6	R543	O7	S501	K6
C502	J9	C612	L2	D505	L6	L003	L2	R545	K3	S502	L6
C504	J10	C616	F8	D506	L6	L004	O2	R546	M6	T501	J11
C505	J10	C617	H11	D515	J6	L009	M2	R547	M7	T502	I9
C506	I10	C621	A12	D519	N7	L501	K7	R548	M6	T503	N11
C507	L12	C622	E3	D521	I5	L502	K8	R549	O7	T505	I7
C509	L10	C629	A9	D530	N7	L503	I6	R550	N7	T603	C6
C510	J9	C632	F7	D531	N7	L511	J6	R551	O8	T604	G11
C511	L9	C633	D10	D534	M8	L515	B2	R552	J11	T605	A1
C513	K9	C634	D10	D561	K4	L517	O7	R553	M8	TH501	L4
C514	J8	C635	D10	D580	H6	L604	E6	R561	L3	THP501	C3
C515	I7	C637	D10	D600	A5	L605	G9	R563	L5	TU001	M1
C516	K8	C638	G8	D611	H12	L606	H9	R564	H5	VDR600	C1
C517	K8	C642	E10	D612	A10	L608	I11	R565	M6		
C518	K6	C643	D11	D613	A8	L609	G7	R567	K5		
C519	J6	C647	D10	D614	I12	PH602	C9	R574	L4		
C520	J7	C648	C12	D615	E8	PS401	G2	R576	K6		

A BOARD - BOTTOM VIEW



A BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE

C052	L12	C645	D3	D640	C5	R207	O10	R466	E8	R569	K8
C053	L11	C652	H4	D641	C5	R208	O10	R467	E8	R570	J8
C056	N11	D200	O9	D646	C5	R209	O10	R468	F8	R571	J9
C057	M8	D201	O10	IC302	N10	R210	O9	R469	F8	R572	I9
C059	N11	D209	O9	IC400	I11	R217	O9	R470	F8	R573	K8
C080	K12	D210	O9	IC501	J8	R218	O9	R471	F8	R580	N2
C081	K12	D211	O9	Q005	M11	R219	O9	R473	F8	R583	I9
C200	J12	D212	O8	Q300	L12	R220	O9	R474	F8	R586	I9
C201	J12	D305	O10	Q304	H8	R222	O8	R475	F7	R589	I9
C202	O9	D306	O9	Q401	G8	R223	N8	R477	M7	R590	K8
C203	O10	D307	O10	Q402	O7	R224	O9	R478	M7	R598	H9
C206	O9	D308	N10	Q403	O7	R225	O9	R479	N7	R599	H9
C207	O9	D309	O8	Q405	G7	R232	O7	R480	F7	R604	D8
C208	O8	D311	O8	Q412	N7	R233	O7	R482	F7	R606	C5
C209	O9	D324	O8	Q466	E7	R234	N7	R483	F7	R607	C5
C309	O10	D325	O8	Q467	E7	R235	N7	R485	F7	R608	C5
C367	O10	D400	G9	Q468	F8	R301	K12	R488	G9	R610	C5
C400	I10	D405	J12	Q469	F8	R302	L11	R500	G9	R611	D4
C401	I11	D422	G9	Q470	F7	R303	L11	R502	K3	R613	D4
C402	I10	D423	G9	Q471	F7	R328	H8	R508	H8	R616	C4
C403	I11	D424	G9	Q472	G7	R334	K10	R513	J3	R617	C4
C404	H10	D425	G7	Q509	D8	R335	G8	R514	I4	R625	C3
C405	H11	D501	D9	Q511	J7	R359	J8	R518	J8	R626	C3
C406	H10	D508	H8	Q530	H9	R390	O9	R521	J3	R631	D3
C407	H11	D509	I4	Q531	H9	R391	O10	R523	I8	R632	D3
C408	H10	D516	I7	Q561	I9	R393	O10	R524	I7	R647	F2
C409	H11	D518	I7	Q562	H8	R394	O10	R525	I7	R650	C1
C410	H10	D520	I8	Q564	I9	R400	I10	R528	I7	R651	E1
C411	H11	D522	I9	Q582	H8	R401	H11	R529	I8	R660	D2
C417	H10	D525	J9	Q583	J3	R405	O7	R530	I9	R667	H4
C456	F10	D526	I9	Q606	D4	R408	O7	R531	I9	R670	D2
C458	G10	D535	I8	Q690	D4	R416	O7	R532	I8	R681	E9
C473	F7	D551	H8	R086	L11	R422	J12	R534	E9	R691	D6
C503	K3	D588	H9	R087	L12	R424	G7	R535	E9	R692	D5
C512	H8	D589	I9	R089	M12	R425	G8	R541	H8	R694	D6
C528	I8	D590	H9	R099	K12	R429	G7	R542	H8	R932	O8
C530	I8	D602	C6	R107	M12	R450	G11	R544	H8	R934	O8
C535	H9	D620	D5	R108	M12	R457	F10	R559	L8	R953	O8
C602	D2	D628	D8	R202	I11	R458	G10	R566	L8	R1510	J9
C620	C3	D629	D8	R206	J12	R464	G9	R568	K8	R1511	J9

MISCELLANEOUS ADJUSTMENTS

B+ CHECK

Use a variable isolated AC supply with the input voltage set at 130VAC. Set the picture and brightness controls to minimum, then check for less than 136.5V at cathode of D611. Replace R530 and R531 if not less than 136.5V and recheck.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, picture, and screen control to minimum. Connect a high voltage probe to CRT anode. High voltage should measure 27kV to 30kV.

HORIZONTAL FREQUENCY

Tune in TV mode (RF) with no signal applied and connect a frequency counter to the base of Q501. Check the horizontal frequency for a reading of 15735Hz ±200Hz.

SERVICE ADJUSTMENT MODE

Standby mode power off, press display, 5, volume +, and power buttons. The set will come on in the Service Adjustment Mode. Press the 1 or 4 buttons to select a item and the 3 or 6 buttons to change the data of that item. Press muting and enter buttons to save adjustments to memory.

HORIZONTAL SIZE (HSIZ)

Tune in a crosshatch pattern. Enter the Service Adjustment Mode, select HSIZ 1 and adjust for slight horizontal over-scan. Save adjustment to memory

SUB BRIGHTNESS (SBRT)

Tune in a crosshatch pattern. Set picture to minimum and brightness to minimum. Enter the Service Adjustment Mode. Select SBRT and adjust for visible 20 IRE mark and then increase by + 3 steps. Save adjustment to memory.

SUB HUE (SHUE) AND SUB COLOR (SCOL)

Tune in a color-bar pattern at 75%. Enter the Service Adjustment Mode. Set picture to maximum and color to 50%. Connect an oscilloscope to pin 4 of CN705. Select SHUE and adjust the waveform until the second and third bars are at the same level. Select SCOL item and adjust the waveform until the first and fourth bars show the same level. Save adjustment to memory.

VERTICAL FREQUENCY

Select video1 input without signal, with standard setting conditions. Connect a frequency counter to pin 6 of CN501. Check for a vertical frequency of 60Hz ±4Hz.

SETUP

Set picture and brightness to normal. Set video mode to PRO. Adjustments should be made in the following order: Beam Landing; Convergence; Focus; Screen; and White Balance

Beam Landing

With a video generator set to a white pattern, loosen the yoke mounting screw, and set the purity rings to the center. Change the pattern generator to green, move the yoke back and adjust the purity controls so the green is in the center and red and blue are equal on both sides. Slide the yoke forward until the entire screen is green. Change the pattern from red to blue checking for a pure field, then re-tighten the yoke mounting screw. If the landing of the corners are not correct adjust using the disk magnets.

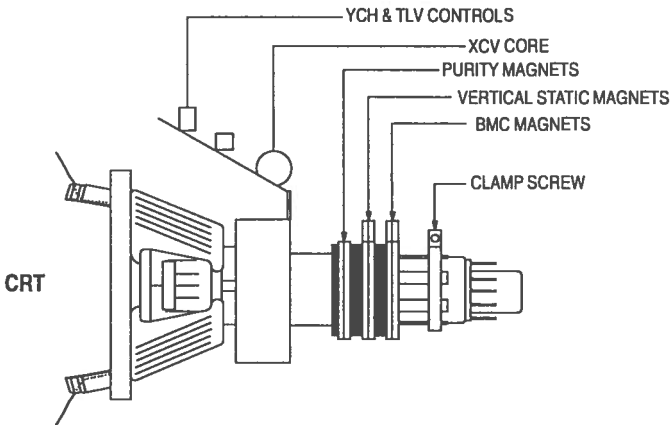
Convergence

Adjust vertical static magnets to converge red, green, and blue in the center of the screen. Slide BMC magnets in and out to correct for insufficient horizontal static convergence and rotate the vertical static magnets to correct for insufficient vertical static convergence. Tune in a crosshatch pattern and loosen deflection yoke screw. Remove rubber wedges between deflection yoke and CRT. Tilt deflection yoke up or down to converge the vertical lines at top and bottom of screen, adjust TLV control, and converge the horizontal lines at the right and left sides of screen. Tilt deflection yoke right or left to converge vertical lines at the right and left sides of screen and horizontal lines at top and bottom of screen. Adjust XCV core to balance X axis, and adjust YCH control to balance Y axis. Repeat convergence procedure, if necessary, to obtain best overall convergence. Apply adhesive to wedges and carefully replace on CRT. Apply a permalloy magnet assembly, corresponding to the misconverged corner areas.

White Balance

Input a white pattern with burst. Set to service mode with picture and brightness set to minimum. Enter the Service Adjustment Mode. Adjust the sub brightness SBRT if necessary. Select GCUT and BCUT and for the best white balance. Adjust picture and brightness to maximum. Select GDRV and BDRV and adjust for the best white balance. Save adjustment to memory.

CRT NECK ASSEMBLY



SERVICE ADJUSTMENT MODE CHART

No.	Display	Item	On-Set Data	No.	Display	Item	On-Set Data
DEF				VP2			
1	HSIZ	H SIZE (EW DC)	35	1	VMOF	VM LEVEL AT OFF SETTING	2
2	HPOS	H POSITION	23	2	VMLO	VM LEVEL AT LOW SETTING	5
3	VSIZ	VERTICAL RAMP SIZE	25	3	VMHI	VM LEVEL AT HIGH SETTING	11
4	VPOS	VERTICAL POSITION (RAMP DC)	33	4	VMDL	VM DELAY	10
5	VLIN	VERTICAL LINEARITY	39	5	VMPL	VM POLARITY	1
6	SCOR	S CORRECTION	47	6	VMWD	VM WIDTH	0
7	VBOW	VERTICAL BOW	31	7	VMCL	VM CORING LEVEL	0
8	VANG	VERTICAL ANGLE	50	8	VMMX	VM LIMITER LEVEL	15
9	TRAP	EW TRAPEZIUM	27	9	CKLV	COLOR KILLER VTH	1
10	PAMP	PARABOLA EW PIN	32	10	CKON	FORCE KILLER	0
11	UPIN	UPPER PIN	31	11	ALFA	ADAPTIVE DET SENSITIVITY	2
12	LPIN	LOWER PIN	32	12	YCMD	YC SEPARATION FORCE SELECT (00:ADAPTIVE, 01:H, 10:V, 11:HV)	0
13	TROT	TROT	105				
14	HBLK	H BLANKING MODE SELECT	0	13	VACL	V APERTURE CORING LEVEL	0
15	RBLK	HBLK REAR TIMING	27	14	VAGA	V APERTURE GAIN LEVEL	7
16	LBLK	HBLK FRONT TIMING	53	15	VAMX	V APERTURE LIMITER LEVEL	15
17	VBLK	VERTICAL BLANKING WIDTH	3	16	GAMM	GAMMA (00:no <->11:deep)	3
18	HMSK	TOP VEND (MACROVISION PREVENT OFF)	0	17	YDLY	Y DELAY TIME	3
19	HDW	HORIZONTAL DRIVE PULSE WIDTH	1	18	CDLY	C DELAY	2
20	AFC	AFC GAIN	0	19	YOFF	Y OUTPUT MUTE	0
21	AFC1	AFC1 TIME CONSTANT	7	20	BGPP	BGP (FOR C DECODER) TIMING	11
22	AFCW	AFC1 PULL IN WIDE	1	21	NRCH	NOISE DET VTH1	3
23	CDMD	VERT DET WINDOW SW TIMING	1	22	NRCL	NOISE DET VTH1	255
24	HSS	HORIZONTAL SYNC SLICE LEVEL	0	23	NRVL	NOISE DET VTH1	255
25	VSS	VERTICAL SYNC SLICE LEVEL	3	24	NRVH	NOISE DET VTH1	255
26	SLUD	AUTO SLICE LEVEL UP/DOWN	0	25	GDOF	G DRIVE OFFSET COLOR TEMP WARM	18
27	JPSW	JUMP SWITCH	0	26	BDOF	B DRIVE OFFSET COLOR TEMP WARM	31
28	HOSC	HORIZONTAL VCO OFFSET ADJ OFFSET	3	27	GCOF	GCUT CMP DATA OFFSET COLOR TEMP WARM	2
29	EHT	EHT	4	28	BCOF	BCUT CMP DATA OFFSET COLOR TEMP WARM	4
30	EHTG	EHT MODE	1	29	DCTV	DCTTRANSFER VTH	3
				30	DCTG	DCTTRANSFER GAIN	12
VP1				NR			
1	RDRV	RED DRIVE COLOR TEMP COOL	84				
2	GDRV	GREEN DRIVE COLOR TEMP COOL AND NEUT	67				
3	BDRV	BLUE DRIVE COLOR TEMP COOL AND NEUT	72	1	SCOL	SUB COLOR LEVEL for NR	10
4	RCUT	RED CUTOFF	100	2	SHCL	SHARPNESS NOISE CORING LEVEL for NR	15
5	GCUT	GREEN CUTOFF COLOR TEMP COOL AND NEUT	77	3	SHMX	SHARPNESS LIMITER LEVEL for NR	7
6	BCUT	BLUE CUTOFF COLOR TEMP COOL AND NEUT	53	4	YNRC	YNR LIMITER LEVEL for NR	7
7	SCON	SUB CONTRAST	16	5	VMHI	VM LEVEL AT HIGH SETTING for NR	7
8	SHUE	SUB HUE	9	6	VMCL	VM CORING LEVEL for NR	0
9	SCOL	SUB COLOR	10	7	VMMX	VM LIMITER LEVEL for NR	7
10	SBRT	SUB BRIGHTNESS	15	8	VAGA	V APERATURE GAIN LEVEL for NR	0
11	RON	RED OUTPUT ON/OFF	1	9	GAMM	GAMMA (00:no <->11:deep) for NR	0
12	GON	GREEN OUTPUT ON/OFF	1	10	YNRS	YNR ON for NR	1
13	BON	BLUE OUTPUT ON/OFF	1	11	WSTH	WEAK_SIGNAL VTH for NR	7
14	BLLV	BLUE STRETCH (00:no <->11:deep)	1	12	WSVA	WEAK SIGNAL VIDEO ATT for NR	0
15	MTRX	MATRIX RATIO SELECT	1	13	WSCA	WEAK SIGNAL CHROMA ATT for NR	5
16	AXIS	R - Y PHASE SELECT	52				
17	SSHO	SHARPNESS GAIN (OVER) RF/VIDEO	3				
18	SSHP	SHARPNESS GAIN (PRE) RF/VIDEO	11				
19	SHPF	SHARPNESS FOR (00:2 <-> 11:5CLK)	0				
20	SHCL	SHARPNESS CORING LEVEL	1				
21	SHMX	SHARPNESS LIMITER LEVEL	15				
22	AKBD	AKB SELF DIAGNOSTIC COUNTER	5				
23	AKBS	AKB SWITCH H/W AKB ON	1				
24	REFP	AKB REFPLS TIMING	0				
25	YNRC	YNR LIMITER LEVEL	15				
26	BKON	BLACK STRETCH ON	1				
27	BKRC	BLACK STRETCH DETECT TIME CONSTANT	243				
28	BKDP	BLACK STRETCH START POINT	2				
29	BKSP	BLACK STRETCH POINT	3				

SERVICE ADJUSTMENT MODE CHART continued

SELF-DIAGNOSTIC MODE

No.	Display	Item	VIVID Data	STD Data	MOVIE Data	PRO Data	No.	Display	Item	On-Set Data	No.	Display	Item	On-Set Data	Standby mode power off, press display, 5, volume -, and power buttons. The set will come on in the Self-Diagnosis Mode. To clear the results of the self-diagnostic screen press 8 and enter buttons. To quit the self-diagnostic screen turn off the remote power switch or power off at the front control.	
PALLET							35	XPHA	VCXO PHASE ADJUST	10						
							36	HRMP	AFC2 TIME CONSTANT	3	AUDIO					
1	VPIC	PICTURE	63	50	37	31	37	RPLU	REF PLL TIME CONSTANT	3	1	SBAL	SUB BALANCE	4		
2	VBRI	BRIGHTNESS	31	31	28	31	38	RPLB	REF PLL TIME CONSTANT	1	2	SBAS	SUB BASS	0		
3	VCOL	COLOR	32	31	31	31	39	XF0B	VCXO FOR ADJUST	0	3	STRE	SUB TREBLE	0		
4	VHUE	HUE	31	31	31	31	40	RPLS	REF VCO FB LOOP SELECT	0	4	SRL	SURROUND LEVEL	0	2: +B OCP 0	
5	VSHA	SHARPNESS	35	37	34	31	41	SSM	SYNC SEPARATION CONTROL	0	5	BBOL	SURROUND OFF - BBE LOW	3	3: +B OVP N/A	
6	VVM	VM	2	1	1	0	42	VSAG	V-SAG PREVENT ON	0	6	BBOH	SURROUND OFF - BBE HIGH	3	4: V STOP 0	
7	VTRI	COLOR TEMP	1	1	2	1	43	AFC2	AFC2 GAIN CONTROL	0	7	BBSL	SIMULATED - BBE LOW	3	5: AKB 1	
8	VAPA	APERTURE G	7	4	3	0	44	VRFL	V RAMP FILTER SWITCHING OFF	0	8	BBSH	SIMULATED - BBE HIGH	3	9: ZCD 000	
9	VGMA	GAMMA	3	2	2	0	45	XPLU	ACP TIME CONSTANT	1	9	BBGL	WOW - GAME BBE LOW	0	101: WDT N/A	
10	VDCT	DCT LEVEL	12	9	9	2	46	CDM2	V_LOGIC SW	1	10	BBGH	WOW - GAME BBE HIGH	0		
11	BKDP	BLACK STRETCH DEPTH	2	2	2	1	47	BGPC	BGP C	0	11	BBTL	SRS BBE LOW	3		
12	BKRC	BLACK ST TIME 1 AND TIME 2	243	243	244	244	48	MHDL	BGP SEL	1	12	BBTH	SRS BBE HIGH	3		
13	BKSP	BLACK STRETCH POINT	3	1	1	1	49	BFRE	FORCE V FREERUN	0	13	VFIX	AUDIO OUTPUT FIX DATA	240		
14	CONO	CONSTRAST OFF-SET FOR RF	1	0	0	0	50	HRPP	FRAMP RRAMP H OUT CONTROL RANGE	2	14	AGCL	AGCL LEVEL (ACG LEVEL)	2		
							51	DSCK	DS DAC CLK SW	0	15	VCOF	VCOF	9		
							52	VBHK	V BLK HALF KILL	0	MICRO					
							53	VPW	V PULSE WIDE	1	1	DISP	OSD HORIZONTAL OFFSET	101		
							54	DTH	DITHER THRESHOLD LEVEL CONTROL AT IIC AUTOD =ON	1	2	CCHP	FOR TILT DATA CALCULATION	110		
							On-Set	55	SLON	LPF SYNC ON	5	3	HRLW	LOW LIMIT OF H-PULSE COUNTING WINDOW RF	16	
No.	Display	Item				Data	56	VSSW	SYNC SLICE LEVEL (V) WIDE WINDOW	0	4	HRHG	HIGH LIMIT OF H-PULSE COUNTING WINDOW RF	64		
ASIC							57	AF2S	AFC2 TIMING SW	0	5	HSDT	HSDTCT (H-PULSE DETECTION S-VIDEO)	8		
1	YNRS	YNR ON				0	58	VSL2	DIGITAL V_SYNC_LPF (FALL)	1	6	STPI	CONTRAST INCREASE STARTING LEVEL	40		
2	CLPS	CLAMP CONTROL SW (0:CLAMP OFF 1:CLAMP AUTO 2:CLAMP ON)				1	59	VSL1	DIGITAL V_SYNC_LPF (RISE)	0	7	RAPI	CONTRAST INCREASE VSYNC COUNTER	10		
3	VMG2	MODULATOR FEEDBACK GAIN CONTROL				1	60	VSHE	V-SHRINK MODE FOR AV-NO SYNC	0	8	ZCRD	ZERO CROSS RELAY DELAY	20		
4	CLPT	CLAMP AUTO ON KEEP TIMER COUNT (@100ms)				15	61	DSCS	CLOCK DIV SEL	0	9	ABLT	ABL PROTECTION COUNTERT	3		
5	AASL	C DECODER TIME CONSTANT (32,16,8,1,1H)				2	62	14HI	4FSC(SKEW) CLK POLARITY	1	FEATURE NTSC					
6	BASL	ACC TIME CONSTANT				0	63	14HD	4FSCCLK(SKEW) CLK DELAY ADJUST	0	0	ID0	LANGUAGE RELATED	89		
7	ACTH	ROM HYS				95	64	DS1	8FSCCLK POLARITY	1	1	ID1	VIDEO RELATED	15		
8	AVAV	AVE SEL AV				3	65	DSD	8FSCCLK DELAY ADJUST	0	2	ID2	AUDIO RELATED	207		
9	B2TH	B2COMP				0	66	ADCD	ADC CLK DELAY ADJUST	0	3	ID3	MISCELLANEOUS	32		
10	AMUT	RGB POWER ON MUTE				0	67	WSTH	WEAK_SIGNAL VTH	0	4	ID4	MISCELLANEOUS	8		
11	PMUT	RGB MUTE (EXCEPT OSD)				1	68	WSVA	WEAK SIGNAT VIDEO ATT	0	5	ID5	MISCELLANEOUS	0		
12	CORL	R CUTOFF LOWER				0	69	WSCA	WEAK SIGNAL CHROMA ATT	0	6	ID6	MISCELLANEOUS	0		
13	CORH	R CUTOFF UPPER				1	70	VREF	AD REFERENCE SELECT (VZ)	12	7	ID7	MISCELLANEOUS	4		
14	COGL	G CUTOFF LOWER WHEN COLOR TEMP IS COOL AND NEUTRAL				0	71	DCCK	AD REFERENCE SELECT (VZ)	0	16:9					
15	COGH	G CUTOFF UPPER WHEN COLOR TEMP IS COOL AND NEUTRAL				1	72	HT	HALF TONE LEVEL	0	1	VSIZ	V RAMP SIZE	38		
16	COBL	B CUTOFF LOWER WHEN COLOR TEMP IS COOL AND NEUTRAL				0	73	OSLR	R OSD LEVEL	27	2	VPOS	V POSITION	34		
17	COBH	B CUTOFF UPPER WHEN COLOR TEMP IS COOL AND NEUTRAL				1	74	OSLG	G OSD LEVEL	27	3	VLIN	V LINEARITY	33		
18	ALSP	ACL SPEED				0	75	OSDC	OSD COMP	0	4	SCOR	S CORRECTION	23		
19	ALAS	ACL ATACK SPEED				146	76	OSLB	B OSD LEVEL	27	5	TRAP	EW TRAPEZIUM	25		
20	ABLG	ABL GAIN				4	77	HRIL	H/W AKB RED OUTPUT LOWER	74	6	PAMP	PARABOLA	17		
21	AKBM	AKB MODE				0	78	HRIH	H/W AKB RED OUTPUT UPPER	1	7	UPIN	UPPER CORNER	32		
22	AKBP	AKB PULSE HEIGHT				10	79	HGIL	H/W AKB GREEN OUTPUT LOWER	7	8	LPIN	LOWER CORNER	33		
23	OSDL	OSD LIMMIT SELECT				0	80	HGIH	H/W AKB GREEN OUTPUT UPPER	1	9	ABLG	ABL GAIN	1		
24	UVG	UVG OFFSET CANCELER				0	81	HBIL	H/W AKB BLUE OUTPUT LOWER	114	10	SCON	SUB CONTRAST LEVEL	16		
25	UOFS	U IN OFFSET				32	82	HBIH	H/W AKB BLUE OUTPUT UPPER	1	11	VPW	JUMP PULSE WIDTH	1		
26	VOFS	V IN OFFSET				32	83	HLM1	H/W AKB LIM1	4						
27	AALG	ANALOG ACL GAIN CONTROL				0	84	HLM2	H/W AKB LIM2	12						
28	AALS	ANALOG ACL ON/OFF CONTROL				1	85	HLM3	H/W AKB LIM3	21						
29	UVDT	UVIN DITHER TEST				14	86	HAD1	H/W AKB SPEED1	2						
30	HFFR	AFC1 FORCE FREERUN				0	87	HAD2	H/W AKB SPEED2	6						
31	HFUP	H FREERUN FREQUENCY UP (700Hz)				0	88	HAKE	H/W AKB MANUAL (MCU)/HARD	1						
32	JSWW	JUMP PULSE WIDTH				0	89	HASP	H/W AKB SPEED	3						
33	XF0A	VCXO FREERUN ADJUST				0	90	HERL	H/W AKB ERROR DET THRESH	10						
34	BGST	BGP (FOR PLL) TIMING				16	91	HLMC	H/W AKB ERROR DET TIME	15						
							92	HPWL	H/W AKB POWER ON THRESH	4						
							93	HPWC	H/W AKB POWER ON TIME	2						
							94	HFMT	POWER ON H/W AKB2 HOLD TIMER (@100msec) [0:NO HOLD]	20						
							95	SPMT	AKB POWER ON EXIT TIMER (@100msec)	120						
							96	GYG	G-Y GAIN	0						
							97	Y16M	YUV 16M	1						
							98	PCLP	PEDESTAL CLAMP	0						

SELF DIAGNOSIS

2:	+B OCP	0
3:	+B OVP	N/A
4:	V STOP	0
5:	AKB	1
9:	ZCD	000
101:	WDT	N/A

SAFETY RELATED ADJUSTMENTS

R530, R531 CONFIRMATION METHOD (HV HOLD-DOWN CONFIRMATION) AND READJUSTMENT

NOTE: Should be performed if D519, D520, D521, C531, C532, IC501, IC600, PH602, R529, R530, R531, R532, R533, R550, T503, or T504 are replaced.

Use a variable isolated AC supply with the input voltage set at 120VAC ±2.0VAC. Input a white signal and set picture and brightness to maximum. Check that the voltage.at the cathode of D519 is more than 23.0V.

HORIZONTAL HOLD DOWN

Adjustments can be made by changing the values of R530 and R531.

- Unsolder pin 11 of T503. Connect a meter set to read current between pin 11 of T503 and where pin 11 would connect.
- Connect a video generator with input pattern set to dots. Set the brightness and picture to minimum. Current should read 2175µA +100µA -325µA.
- Check the voltage between anode of D534 is 134.6V ± 1.0V.
- Connect a DC power supply and a voltmeter to cathode of D519 and ground.
- Increase the voltage until the picture blanks.
- Turn the DC power supply off immediately.
- Read the voltage, it should read 27.24V +0V -1V.
- Input a white signal. Set the brightness and picture to maximum. Current should read 2175µA +100µA -325µA.
- Repeat steps 4 to 7.

SONY

MODEL KV-32FS120 (CHASSIS SCC-S59K-A, SCC-S61P-A)

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D002	UDZSTE-175.6B	8-719-069-55	-
D004, 05	DTZ10B	8-719-977-28	-
D006	UDZSTE-175.1B	8-719-069-54	-
D009	MTZJ-30D	8-719-982-22	-
D044, 45	DTZ10B	8-719-977-28	-
D050	D1NS4	8-719-510-02	NTE585
D051	10ERB20-TB5	6-500-567-21	-
D052	UDZSTE-175.6B	8-719-069-55	-
D110	MA111-TX	8-719-404-50	-
D200, 01	UDZSTE-179.1B	8-719-069-60	-
D209 Thru			
D210, 11, 12	UDZSTE-179.1B	8-719-069-60	-
D213	D1NS4	8-719-510-02	NTE585
D218, 19	MTZJ-T-77-9.1B	8-719-929-15	-
D305, 06, 07	PDZ9.1B-115	8-719-070-62	-
D308	DTZ10B	8-719-977-28	-
D309	UDZSTE-179.1B	8-719-069-60	-
D310	RD9.1EW	8-719-108-12	NTE5018A
D311, 24	UDZSTE-179.1B	8-719-069-60	-
D325	MTZJ-T-77-9.1B	8-719-929-15	-
D351	UDZSTE-173.3B	6-500-697-01	-
D390	MA111-TX	8-719-404-50	-
D400	MA111-TX	8-719-404-50	-
D401, 02	UDZSTE-179.1B	8-719-069-60	-
D405	MA111-TX	8-719-404-50	-
D414	MTZJ-7.5B	8-719-921-63	-
D423, 24	MA111-TX	8-719-404-50	-
D425	UDZ-TE-17-7.5B	8-719-056-84	-
D500	BY228/A52A/	8-719-081-00	-
D501	MA111-TX	8-719-404-50	-
# D503	BY228/A52A/	8-719-081-00	-
D504	FR305G-EB	6-500-485-01	-
D505, 06	GP08D	8-719-908-03	NTE116
D508, 09	MA111-TX	8-719-404-50	-
D512, 13	MA111-TX	8-719-404-50	-
# D515	PR1004GT	8-719-075-41	-
D516, 18	MA111-TX	8-719-404-50	-
# D519	EL1Z	8-719-302-43	NTE587
D520	MA111-TX	8-719-404-50	-
D521	MTZJ-7.5B	8-719-921-63	-
D522, 25, 26	MA111-TX	8-719-404-50	-
# D530	PG154R	6-500-531-01	NTE571
D531	PG154R	6-500-531-01	NTE571
D534	PG104R	8-719-074-25	NTE574
D535	MA111-TX	8-719-404-50	-
D551	UDZSTE-175.6B	8-719-069-55	-
D558, 59	MA111-TX	8-719-404-50	-
D561	1N4003GA	8-719-075-33	NTE116
D580	1SS133T-77	8-719-991-33	NTE519
D588, 89, 90	MA111-TX	8-719-404-50	-
D600	D4SB60L	8-719-510-53	NTE5319
D602	S1NB60-4062	8-719-064-12	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D611	D4SBL20UF3	8-719-062-40	-
D612, 13	ERC04-06SE	8-719-068-00	-
D614	EZ0150AV1	8-719-057-52	-
D615	D4SBL20UF3	8-719-062-40	-
D618	UF4005PKG23	8-719-979-64	-
D620	MA111-TX	8-719-404-50	-
D621	MA6D50	6-500-181-01	-
D628	MA111-TX	8-719-404-50	-
D629	UDZS-TE17-12B	8-719-083-82	-
D631	10ERB20-TA1B2	6-500-567-01	-
D640, 41	MA111-TX	8-719-404-50	-
D645	10ERB20-TA1B2	6-500-567-01	-
D646	MA111-TX	8-719-404-50	-
D647	10ERB20-TA1B2	6-500-567-01	-
D651	RD6.2ESB2	8-719-109-93	NTE5013T1
D690	MTZJ-27	8-719-982-13	-
D701, 02, 03	1SS83	8-719-901-83	NTE177
D704	PG104R	8-719-074-25	NTE574
D705	RD9.1EW	8-719-108-12	NTE5018A
D762, 63	MA111-TX	8-719-404-50	-
D772, 73	MA111-TX	8-719-404-50	-
D782, 83	MA111-TX	8-719-404-50	-
D804	PG104R	8-719-074-25	NTE574
D805, 06	1SS133T-77	8-719-991-33	NTE519
D807	11EQS04	8-719-210-21	NTE585
D808, 13	1SS133T-77	8-719-991-33	NTE519
D901, 02	MTZJ-T-77-22	8-719-924-11	-
D903	1SS133T-77	8-719-991-33	NTE519
D905, 06, 07, 08	MA111-TX	8-719-404-50	-
D1001	HZS9.1NB2	8-719-929-15	-
D1002	LNK0120022G	8-719-070-80	-
D1003, 04, 05	HZS9.1NB2	8-719-929-15	-
D1233, 35, 36	RD9.1EW	8-719-108-12	NTE5018A
D1809	RD15ESB2	8-719-110-41	NTE5024A
D1810, 11	ERA38-06	8-719-970-87	NTE575
D1812	1N4937/23	8-719-081-93	-
D2801	RD5.6ESB2	8-719-109-89	NTE5011A
D2802	1SS133T-77	8-719-991-33	NTE519
IC001	M65585µF-104FP	6-804-652-01	-
IC002	M24C16-WMN6T(B)	6-704-607-01	-
IC003	PST9143NL	8-759-352-91	-
IC004	L88M05T-FA-TL	8-759-533-85	-
IC302	NJM2534M(TE2)	8-759-353-00	-
IC400	NJW1134AGK1-TE2	6-703-190-01	-
IC401	TDA8947J	6-705-054-01	-
IC501	NJM2903M	8-759-700-07	NTE943SM
# IC561	STV9379A	8-759-696-71	-
IC565	NJM2902M	8-759-700-44	NTE987SM
IC600	MCZ3001DB	6-705-810-01	-
IC601	DM-58	8-749-012-13	-
IC609	PQ09RD21	8-759-653-07	-
IC633	NJM2391DL1-33(TE1)	8-759-641-26	-

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.
IC701	BD7941AT-V5	6-705-638-01	-
IC702	TDA6108JF/N1B	8-759-562-43	-
IC703	NJM78M09FA	8-759-701-59	NTE1966
IC801	UPC5023CS-184	6-701-598-01	-
# PH602	ON3171-R	8-749-924-35	-
Q002, 04	2SD601A-Q	8-729-422-27	NTE2408
Q005	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q008	2SD601A-Q	8-729-422-27	NTE2408
Q300, 01, 03	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q304	2SD601A-Q	8-729-422-27	NTE2408
Q305	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q306	2SD601A-Q	8-729-422-27	NTE2408
Q307	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q316	2SD601A-Q	8-729-422-27	NTE2408
Q390, 91	2SD601A-Q	8-729-422-27	NTE2408
Q401, 02, 03	2SD601A-Q	8-729-422-27	NTE2408
Q405	2SC1623-L5L6	8-729-120-28	NTE2408
Q412	2SD601A-Q	8-729-422-27	NTE2408
Q466 Thru			
Q470	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q471, 72	2SD601A-Q	8-729-422-27	NTE2408
Q501	2SC3209LK	8-729-140-50	NTE399
# Q502	2SD2645-YB	6-550-107-01	-
Q503, 04, 05, 09	2SD601A-Q	8-729-422-27	NTE2408
# Q511	2SD601A-Q	8-729-422-27	NTE2408
# Q512	2SC4159-E	8-729-809-29	NTE54
Q515, 19	2SD601A-Q	8-729-422-27	NTE2408
Q530	2SD601A-Q	8-729-422-27	NTE2408
Q531	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q532	KTA1279	6-550-362-01	-
Q533	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q561	2SD601A-Q	8-729-422-27	NTE2408
Q562	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q564	2SD601A-Q	8-729-422-27	NTE2408
Q582	2SD601A-Q	8-729-422-27	NTE2408
Q583	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q600, 01	IRFIB7N50A-LF31	8-729-052-32	-
Q605	2SD774-34	8-729-140-96	NTE382
Q606	2SD601A-Q	8-729-422-27	NTE2408
Q608	2SD2144S-UVM	8-729-922-37	-
Q611	KSC2383-O	6-550-409-01	-
Q690	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q691	2SA933AS-QT	8-729-026-39	NTE290A
Q700, 01, 03	2SD601A-Q	8-729-422-27	NTE2408
Q761, 62, 63	2SD601A-Q	8-729-422-27	NTE2408
Q771, 72, 73	2SD601A-Q	8-729-422-27	NTE2408
Q781, 82, 83	2SD601A-Q	8-729-422-27	NTE2408
Q805	KTB764	6-550-106-01	-
Q807	IRF614	8-729-931-45	-
Q808	KTB764	6-550-106-01	-
Q812	2SA933AS-QT	8-729-026-39	NTE290A

Item No.	Type No.	Mfr. Part No.	NTE Part No.
Q860	2SD601A-Q	8-729-422-27	NTE2408
Q901	KTC4370A	8-729-053-87	-
Q902	KTA1659A	6-550-247-01	NTE398
Q903, 04	2SD601A-Q	8-729-422-27	NTE2408
Q905	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q906, 07	2SC1623-L5L6	8-729-120-28	NTE2408
Q908	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q1810	2SC3840(3)	8-729-043-95	-
Q2801	2SD601A-Q	8-729-422-27	NTE2408
Q2802, 03, 04	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q3005	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q3300	2SD601A-Q	8-729-422-27	NTE2408
Q3304	2SB709A-QRS-TX	8-729-424-02	NTE2409
Q3502	2SD601A-Q	8-729-422-27	NTE2408
Q6000	2SD601A-Q	8-729-422-27	NTE2408

Item No.	Function/Rating	Mfr. Part No.	Notes
# C507, 09	680pF 10% 2kV	1-162-116-00	-
# C511	.022 3% 1.2kV	1-117-652-00	-
# C513	.051 5% 400V	1-130-118-91	-
# C514	.82 5% 250V	1-115-521-11	-
# C516	1.2μ F 5% 250V	1-115-356-11	-
# C527	680pF 10% 2kV	1-162-116-00	-
# C553	.15 5% 250V	1-117-661-11	-
# C554	.0047 3% 1.2kV	1-117-635-11	-
# C581	.22 20% 275VAC	1-165-529-11	-
# C601, 03	.22 10% 275VAC	1-165-529-11	-
# C608	.001 20% 125V	1-119-912-51	-
# C622	.001 20% 125V	1-119-912-51	-
C648, 49	.001 10% 1kV	1-164-143-11	-
C715, 16	.0047 2kV	1-162-114-00	-
D250	Varistor	1-803-974-21	-
D304	Varistor	1-803-974-21	-
D3509	Varistor	1-803-974-21	-
# DY1	Yoke	8-451-499-41	-
# F601	Fuse	1-576-193-11	6.3Amp, 125V
FB302	Ferrite Bead	1-469-549-21	-
FB501, 02, 03, 05	Ferrite Bead	1-412-911-11	-
FB602, 04	Ferrite Bead	1-412-911-11	-
FB613	Ferrite Bead	1-410-397-21	-
FB614, 16, 17	Ferrite Bead	1-412-911-11	-
FB650, 51, 52, 53	Ferrite Bead	1-412-911-11	-
FH1, FH2	Fuse Holder	1-533-223-11	For F601
FL001	Filter	1-234-126-21	EMI
IC1001	Receiver	8-742-212-20	Remote, SBX3081-71
J201	Jack	1-181-351-11	Assembly
J206	Jack	1-817-461-11	Assembly
J207	Jack	1-794-116-11	Assembly
# J701	Socket	1-451-470-21	CRT
J1231	Jack	1-794-048-11	Assembly
L002	Ferrite Bead	1-234-126-21	-

SONY
MODEL KV-32FS120 (CHASSIS SCC-S59K-A, SCC-S61P-A)

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
L003	10μH	1-414-856-11	-
L004	100μH	1-414-857-11	-
L005	Ferrite Bead	1-234-126-21	-
L006	100μH	1-414-273-11	-
L007	10μH	1-414-267-21	-
L009	100μH	1-414-857-11	-
L011	Ferrite Bead	1-234-126-21	-
# L500	Degaussing	1-456-011-21	-
L501	10μH	1-406-677-11	-
L502	2.2mH	1-412-552-11	-
L503	10μH	1-406-677-11	-
# L505	150μH	1-406-978-11	-
L511	8mH	1-409-955-31	-
L515	22μH	1-412-529-11	-
L517	2.2mH	1-412-552-11	-
L604	10μH	1-412-525-31	-
L605, 06	Ferrite Bead	1-412-911-11	-
L608, 09	22μH	1-412-529-11	-
L611, 12, 13	100μH	1-469-561-21	-
L701	100μH	1-410-482-31	-
L710, 11, 12	33μH	1-410-387-11	-
L801, 02	10mH	1-406-989-21	-
L803	22μH	1-412-529-11	-
L901	18μH	1-410-473-11	-
L1805	10μH	1-406-677-11	-
L3003, 04	Ferrite Bead	1-234-126-21	-
L3609	10μH	1-414-267-21	-
N/S	COIL	1-452-896-11	-
# NECK	Neck	8-453-007-41	Assembly
# P600	Line Cord	1-824-069-11	AC, Polarized
PS401	IC Link	1-576-337-21	2.7Amp, 50V
R005, 07	Ferrite Bead	1-400-427-21	-
R027	47K .5% 1/10W	1-218-887-11	-
R085	15K 5% 3W	1-215-924-00	-
R302	470 .5% 1/10W	1-218-839-11	-
R303	560 .5% 1/10W	1-218-841-11	-
R312	6800 .5% 1/10W	1-218-867-11	-
R326	Ferrite Bead	1-400-427-21	-
R422	6800 .5% 1/10W	1-218-867-11	-
R504	470 5% 3W	1-215-915-21	-
# R510	33 5% 3W	1-215-908-00	-
R512	220 5% 3W	1-243-535-71	-
R520	100 5% 3W	1-243-531-71	-
# R523	12K 5% 1/10W	1-216-834-11	-
# R524	10K 5% 1/10W	1-216-833-11	-
# R525	8200 .5% 1/10W	1-218-869-11	-
# R528	22K .5% 1/10W	1-218-879-11	-
R529	22K .5% 1/10W	1-218-879-11	-
R530	12K .5% 1/10W	1-218-873-11	-
R531	56K .5% 1/10W	1-218-889-11	-
# R536, 37	.47 5% 1/2W	1-260-288-11	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# R543	.47 5% 1/4W	1-249-377-11	-
# R545	3.3 5% 1/4W	1-249-387-11	-
R546	12K 1% 1/4W	1-215-447-00	-
R547	10K 1% 1/4W	1-215-445-00	-
R547A	68K .5% 1/10W	1-218-891-11	-
R548	22K 1% 1/4W	1-215-453-00	-
R549	2200 1% 1/4W	1-215-429-00	-
# R550	.47 5% 1/4W	1-249-377-11	-
R552	470 5% 3W	1-215-915-11	-
# R553	.47 5% 1/4W	1-249-377-11	-
R561	10K 1% 1/4W	1-215-445-00	-
# R563	1.8 1% 1/2W	1-214-798-21	-
R566	6800 .5% 1/10W	1-218-867-11	-
# R567	2.2 5% 1/4W	1-249-385-11	-
R568	6800 .5% 1/10W	1-218-867-11	-
R569	10K .5% 1/10W	1-218-871-11	-
# R574	1.8 1% 1/2W	1-214-798-21	-
R576	22 5% 3W	1-243-523-71	-
R598	6800 .5% 1/10W	1-218-867-11	-
R609	1 5% 3W	1-216-389-11	-
# R615	.1 10% 1/2W Fusible	1-202-933-61	-
R626	8200 .5% 1/10W	1-218-869-11	-
R629, 30	470K 1% 1/4W	1-245-478-21	-
R631	15K .5% 1/10W	1-218-875-11	-
R632	100 .5% 1/10W	1-218-823-11	-
R634	10 5% 3W	1-215-905-11	-
R641	1 5% 3W	1-216-389-11	-
R647	91 .5% 1/10W	1-211-992-11	-
# R674	.47 10% 1/2W Fusible	1-220-926-11	-
R686	.22 5% 10W	1-240-303-31	-
R687	.47 5% 10W	1-220-797-11	-
R688	.22 5% 10W	1-240-303-31	-
R762	1000 .5% 1/10W	1-218-847-11	-
R764	270 .5% 1/10W	1-218-833-11	-
R765	2200 .5% 1/10W	1-218-855-11	-
R772	1000 .5% 1/10W	1-218-847-11	-
R774	270 .5% 1/10W	1-218-833-11	-
R775	2200 .5% 1/10W	1-218-855-11	-
R782	1000 .5% 1/10W	1-218-847-11	-
R784	270 .5% 1/10W	1-218-833-11	-
R785	2200 .5% 1/10W	1-218-855-11	-
R817	12K .5% 1/10W	-	-
	18K .5% 1/10W	1-218-877-11	-
R824	100K 1% 1/10W	1-218-895-11	-
R827	4700 .5% 1/10W	1-218-863-11	-
R828	33K .5% 1/10W	1-218-883-11	-
R833	6800 .5% 1/10W	1-218-867-11	-
R834	2200 .5% 1/10W	1-218-855-11	-
R837	15K .5% 1/10W	-	-
	2200 .5% 1/10W	-	-
R840	2200 .5% 1/10W	1-218-855-11	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
R841	5600 .5% 1/10W	-	-
	6800 .5% 1/10W	1-218-867-11	-
R842	2200 .5% 1/10W	1-218-855-11	-
R852	47K .5% 1/10W	1-218-887-11	-
R855	10K .5% 1/10W	1-218-871-11	-
R856	2700 .5% 1/10W	-	-
	3900 .5% 1/10W	1-218-861-11	-
R857	8200 .5% 1/10W	1-218-869-11	-
R860	10K .5% 1/10W	1-218-871-11	-
R864	100 .5% 1/10W	1-218-823-11	-
R890	15K .5% 1/10W	-	-
	6800 .5% 1/10W	1-218-867-11	-
R910	470 5% 3W	1-215-915-11	-
R911	220 1% 1/4W	1-215-405-00	-
R913	56 1% 1/4W	1-215-391-00	-
R932A	1500 .5% 1/10W	1-218-851-11	-
R1848, 49, 50	2200 5% 3W	1-243-610-71	-
R1851, 52	6800 5% 3W	1-215-922-11	-
R3517	27K 1% 1/10W	1-218-881-11	-
R3524	6800 .5% 1/10W	1-218-867-11	-
R3530	5600 .5% 1/10W	1-218-865-11	-
R3533	8200 .5% 1/10W	1-218-869-11	-
R3534	15K .5% 1/10W	1-218-720-11	-
R3535	5600 .5% 1/10W	1-218-865-11	-
R3536	8200 .5% 1/10W	1-218-869-11	-
# RV701	110M	1-241-656-11	VSTAT
RV702	47K	1-238-019-11	N/S
RY501	Relay	1-755-198-11	Degaussing
# RY600	Relay	1-755-395-11	Power
S501	Switch	1-572-707-11	Horizontal Centering
S502	Switch	1-572-707-11	Horizontal Centering
S1001	Switch	1-692-431-21	Channel +
S1002	Switch	1-692-431-21	Channel -
S1003	Switch	1-692-431-21	Volume +
S1004	Switch	1-692-431-21	Volume -
S1005	Switch	1-692-431-21	TV/Video
S1006	Switch	1-692-431-21	Power
S1007	Switch	1-762-816-11	Menu/Select
S1008	Switch	1-762-816-11	Menu/Up/Down
SP1, 2	Speaker	1-825-206-11	6X12cm
# T501	Horizontal Drive	1-433-836-11	-
# T502	PMT	1-435-869-11	-
# T503 (1)	Horizontal Output	1-453-338-41	-
T504	DFT	1-424-584-31	-
# T505	Horizontal Linearity	1-435-098-21	-
# T603	Standby	1-437-783-11	-
# T604	Converter	1-437-606-12	-
# T605	Line Filter	1-443-402-11	-
TH501	Thermistor	1-800-193-00	-
THP501	PTC	1-804-970-11	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# TU001	Tuner/IF Module	8-598-593-50	BTF-WA421
# V901	CRT	8-735-066-05	A80LPD50X
# VDR600	Varistor	1-810-974-21	-
VM	Coil	-	-
X001	Crystal	1-795-006-21	-
X301	Crystal	1-781-377-21	-
	Magnet	4-083-414-01	Convergence Correction
	PC Board	A-1302-981-A	A
	PC Board	A-1415-717-A	C
	PC Board	A-1415-723-A	HS
	PC Board	A-1415-721-A	M
	PC Board	A-1415-719-A	V
	Transmitter	1-478-707-11	Remote, RM-Y195
	Wedge	4-053-005-01	Yoke Positioning (3 Used)

For SAFETY use only equivalent replacement part.
(1) Screen and focus controls are part of T503.

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.

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