

SAFETY PRECAUTIONS

SERVICE WARNING

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

SERVICING THE HIGH VOLTAGE AND CRT

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

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

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

GENERAL GUIDELINES

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

HIGH VOLTAGE SHUTDOWN TEST

Place a jumper between pins 3 and 4 of IC803. Apply 9.0V to the cathode of D001. Connect a high voltage probe to the CRT anode. Set the AC supply to 45VAC. Turn the receiver on and slowly increase the AC supply. Confirm the high voltage does not exceed 37.1kV when the horizontal just begins to pull out of sync. If the high voltage should exceed 37.1kV or the receiver fails to lose horizontal sync, the horizontal oscillator disable circuit should be repaired. Remove jumper and the 9.0V DC supply.

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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9850 East 30th Street  
Indianapolis, IN 46229

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

03PF02115

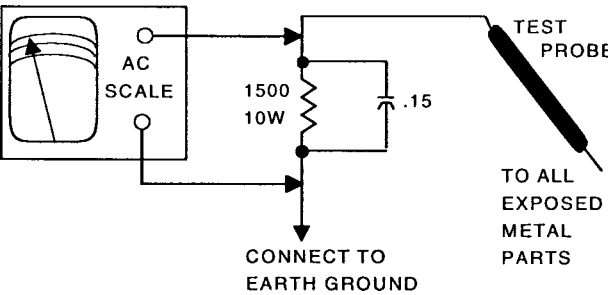
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



UPC  
HERE

PHOTOFACT<sup>®</sup> Technical Service Data  
SILVER

SET 4742

MODEL CT-3207DF (CHASSIS QP341)

PANASONIC

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For Supplier Address,  
See PHOTOFACT Annual Index

PANASONIC  
Model CT-3207DF (Chassis QP341)



Representative Model

Essential coverage  
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models and chassis:

Models	Chassis
CT-32D32F	GP341
CT-32D32UF	GP341
CT-3207DUF	QP341



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JUNE 2003 SET 4742

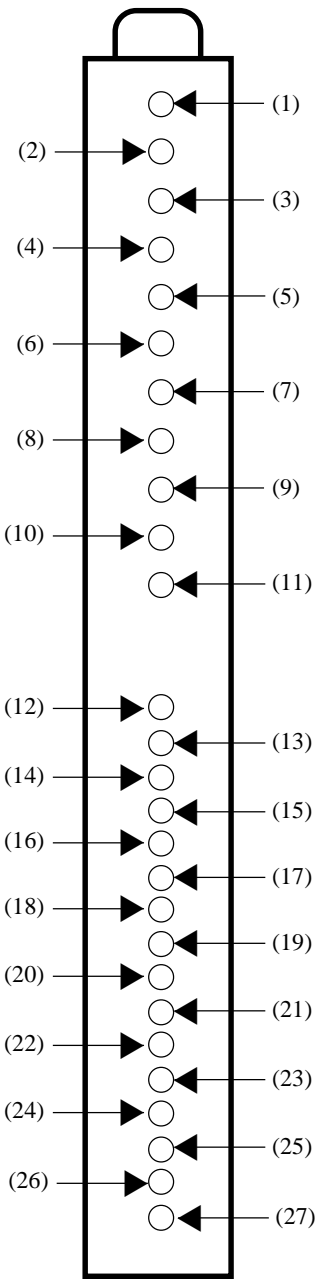
TUNER INFORMATION

MAIN TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.0V	2.1V	1.6V
(2) TU	1.1V	4.4V	5.4V
(3) ADRS	0V	0V	0V
(4) SCL	3.6V	3.6V	3.6V
(5) SDA	3.6V	3.6V	3.6V
(6) NC	0V	0V	0V
(7) 5V	4.5V	4.5V	4.5V
(8) NC	0V	0V	0V
(9) BTL	4.2V	7.5V	8.5V
(10) NC	0V	0V	0V
(11) IF1	0V	0V	0V
(12) TP	0V	0V	0V
(13) BV	9.0V	9.0V	9.0V
(14) AUDIO	.37V	.37V	.37V
(15) GND	3.6V	3.6V	3.6V
(16) AFT	1.9V	1.9V	1.9V
(17) AGC OUT	2.0V	2.1V	1.6V
(18) VIDEO	2.1V	2.1V	2.1V
(19) NC	0V	0V	0V
(20) GND	0V	0V	0V
(21) NC	0V	0V	0V
(22) NC	0V	0V	0V
(23) NC	0V	0V	0V
(24)NC	0V	0V	0V
(25) NC	0V	0V	0V
(26) NC	0V	0V	0V
(27) NC	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.

MAIN TUNER TERMINAL GUIDE



Important Parts Information

- The parts listed here are those not usually available from a well-stocked supply cabinet or bin.
- Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.
- On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.
- When ordering parts, state the model number, part number, and description.

Obtaining Parts

Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor:

800-428-7267

Or consult the Sams *Annual Index* for the address of the original equipment manufacturer.

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams *Annual Index* for their current address.

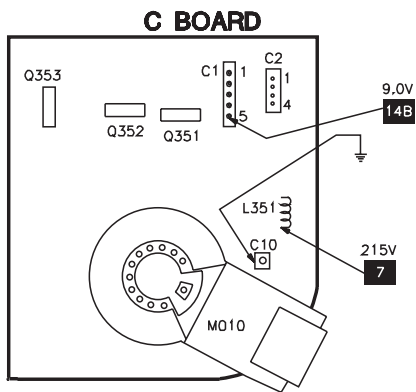
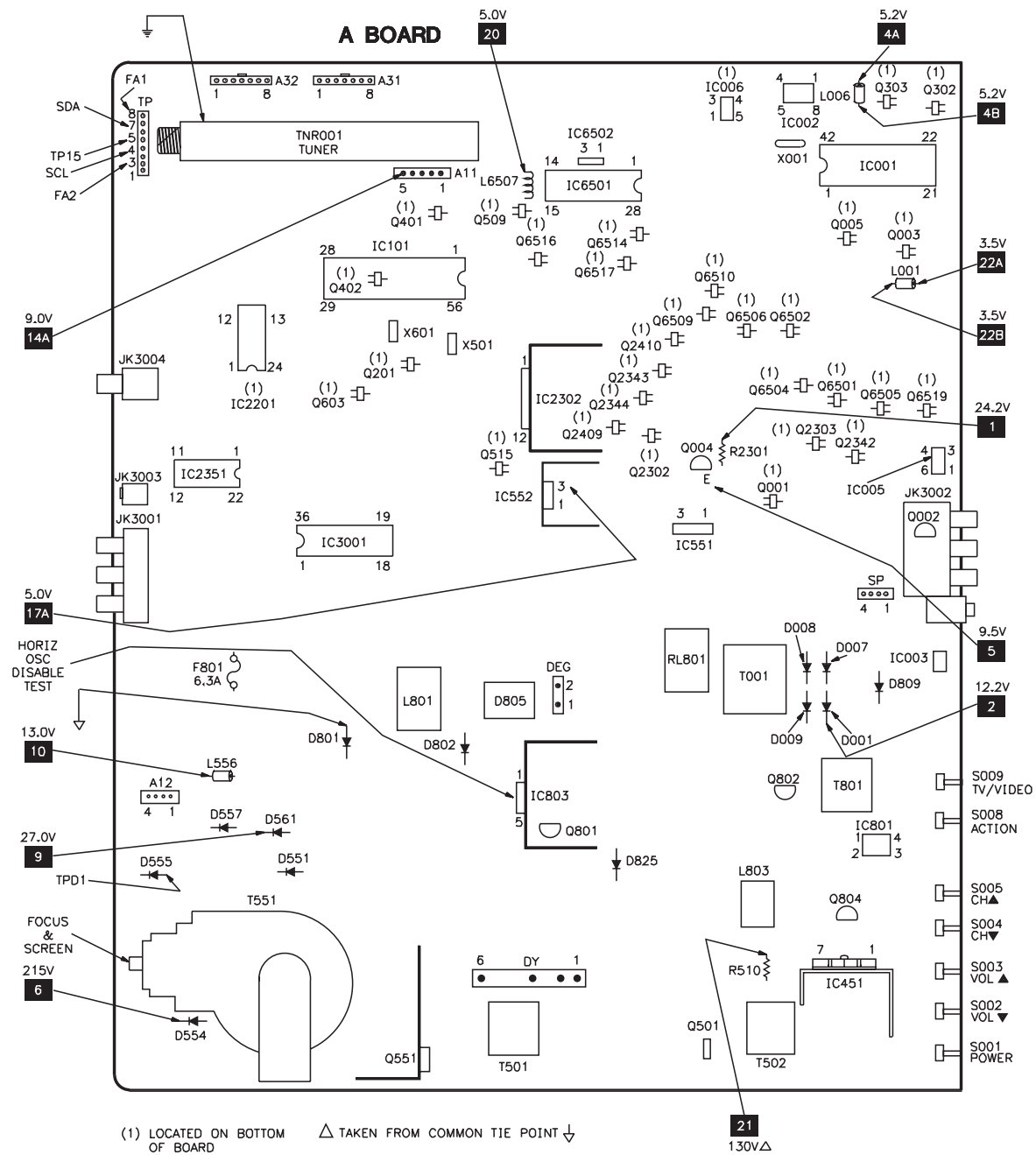
- NTE Electronics, Inc. (NTE)
- Sencore, Inc.

TEST EQUIPMENT

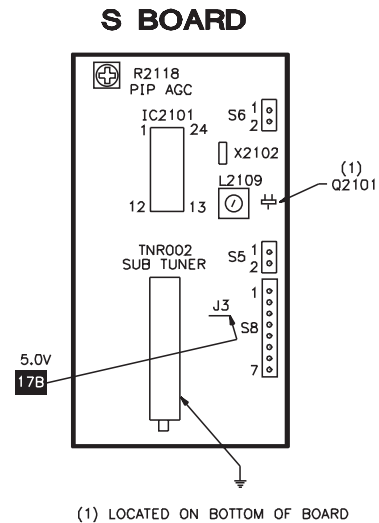
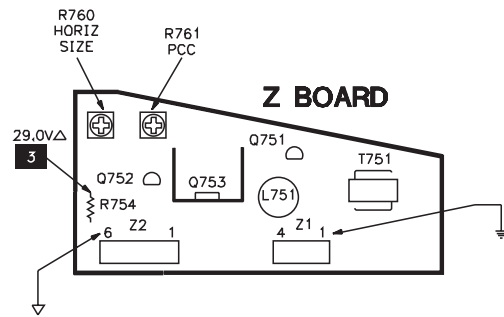
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

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

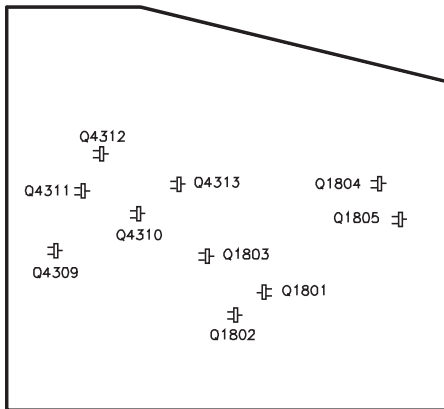




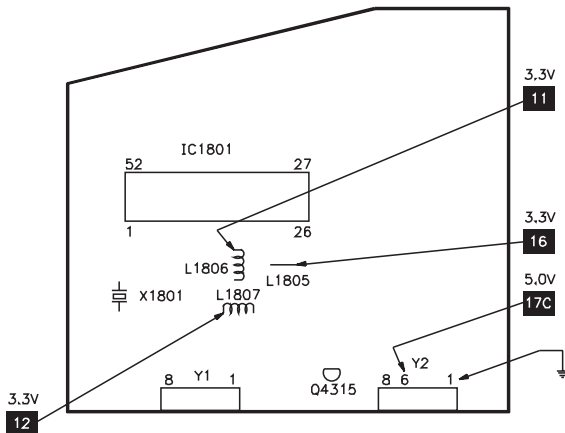
## PLACEMENT CHART



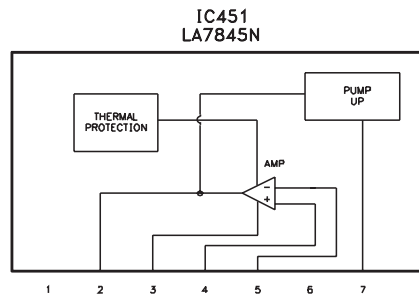
## Y BOARD - BOTTOM VIEW



## Y BOARD - TOP VIEW



## IC FUNCTIONS



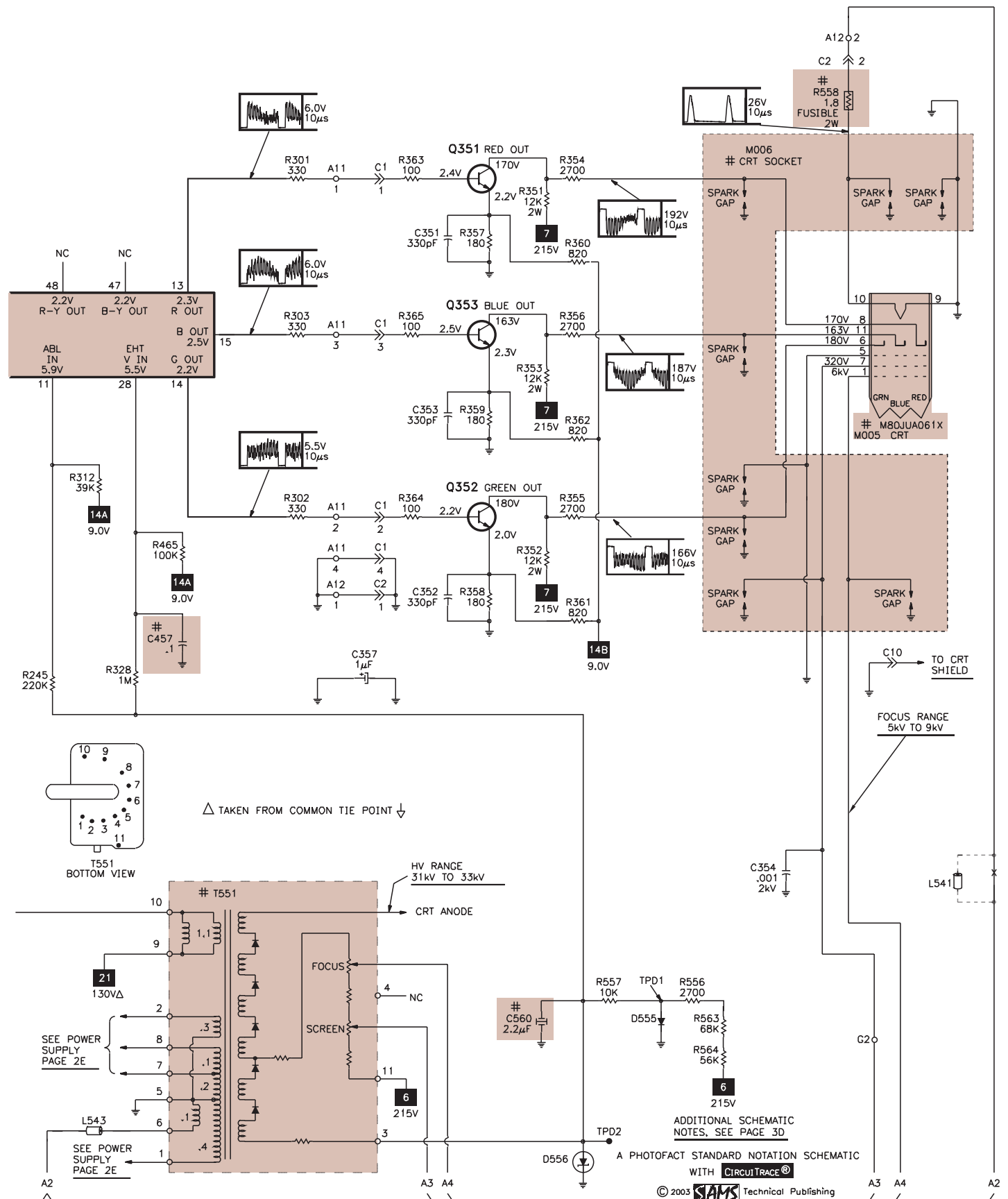


ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 3D

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE®**

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**C**  
**TELEVISION SCHEMATIC** continued



## SCHEMATIC COMPONENT LOCATION GUIDE

C001	E15	C555	D16	C2109	E19	C4313	A49	D3005	C31	L1803	E49	R021	D26	R465	C9	R1809	D49	R3017	B38
C002	E15	C556	E14	C2111	C48	C4314	B49	D3006	C31	L1804	D51	R022	D26	R468	D7	R1810	C50	R3018	C31
C003	C1	C557	D14	C2114	D45	C4315	B49	D3007	A38	L1806	E18	R023	C22	R469	D7	R1811	D50	R3019	C31
C005	C1	C558	D17	C2115	D45	C4316	E19	D3008	B38	L1807	E18	R024	D22	R470	D7	R1812	B51	R3020	B38
C006	C1	C560	E10	C2116	D46	C4317	E19	D3009	A4	L1808	C17	R025	C22	R501	E2	R1813	B51	R3021	B39
C008	C16	C561	D13	C2118	D48	C4319	B50	D3010	B4	L2103	D47	R026	B23	R502	D2	R1814	D52	R4310	A48
C009	B3	C562	D17	C2119	D47	C4320	B49	D3011	A5	L2106	D48	R027	B24	R504	C6	R1815	E51	R4311	A47
C010	C16	C563	E8	C2120	D46	C6501	D19	D3012	A5	L2109	D47	R028	C23	R505	D3	R1818	D49	R4326	A48
C011	C15	C564	E7	C2121	D46	C6502	D19	D3017	A38	L2310	E25	R029	D23	R506	E4	R1819	C49	R4327	A48
C013	C14	C565	E6	C2123	D47	C6504	D39	D3018	A38	L4301	A49	R030	C23	R507	E4	R1822	C50	R4328	A48
C016	E25	C566	E6	C2124	C45	C6507	D39	D3019	D31	L6502	D39	R032	B22	R508	B40	R1823	C49	R4329	A49
C017	A24	C567	E7	C2125	C48	C6510	B41	D3020	D31	L6505	B41	R033	B21	R509	B41	R1825	A51	R4330	A50
C018	A23	C568	E8	C2126	C45	C6511	D39	D3021	D31	L6507	E19	R034	B21	R510	E5	R1827	A51	R4331	B48
C020	C16	C569	E8	C2202	C30	C6512	D41	D3022	D31	L6508	B14	R035	B21	R511	E5	R1828	B51	R4332	B49
C021	A21	C571	D16	C2203	C30	C6513	B41	D4301	E18	M001	A13	R036	B21	R512	E5	R1830	B52	R4333	B49
C022	B16	C572	D20	C2204	C30	C6516	C42	DEG	A15	M005	B12	R037	C21	R513	B41	R1856	E51	R4334	B50
C024	E24	C573	D17	C2205	C29	C6517	B42	DY	D8	M006	A11	R038	C21	R514	B22	R2106	D46	R4336	E17
C025	E24	C574	E8	C2206	C30	C6518	C42	F801	A14	Q001	E26	R039	E23	R515	B23	R2109	D46	R4338	B50
C026	E24	C601	B4	C2207	C30	C6520	C43	IC001	A24	Q002	C14	R040	B26	R516	B23	R2110	D47	R4339	B50
C032	A21	C603	D3	C2208	C30	C6521	D19	IC002	C28	Q003	A25	R041	B26	R517	B23	R2111	E47	R4340	C49
C033	D26	C616	D2	C2209	D30	C6522	C44	IC003	A21	Q004	C14	R042	E23	R531	D2	R2112	D46	R4341	C49
C034	D26	C641	D1	C2210	C29	C6523	D19	IC005	C14	Q005	A22	R043	D24	R532	D2	R2113	D46	R4342	B49
C043	A1	C754	D30	C2211	A29	C6524	B43	IC006	E22	Q201	D1	R044	C24	R533	D2	R2114	D48	R4344	A49
C044	E24	C755	D30	C2212	C29	C6525	B42	IC101	B6	Q302	D23	R045	A22	R550	D13	R2116	D48	R4345	B49
C047	C16	C756	E30	C2215	D20	C6526	B41	IC101	D3	Q303	D23	R046	B24	R551	D13	R2117	D46	R6501	D38
C048	C16	C757	D20	C2218	C29	C6527	E20	IC451	D6	Q351	B10	R047	A23	R552	D13	R2118	D46	R6502	D38
C201	D1	C759	E32	C2301	C20	C6528	E20	IC551	E14	Q352	C10	R049	B6	R553	E14	R2119	D46	R6503	D39
C224	B6	C760	D29	C2302	C32	C6529	B40	IC552	D18	Q353	B10	R060	E24	R556	E11	R2121	D48	R6505	D39
C225	B5	C801	A15	C2305	C32	C6531	A44	IC801	D19	Q401	D5	R066	C25	R557	E11	R2122	C46	R6509	B40
C226	B5	C802	A16	C2306	C33	C6532	D40	IC803	A18	Q402	D5	R067	C25	R558	A12	R2123	C46	R6510	B41
C301	B7	C803	A16	C2307	C35	D001	B15	IC1801	B51	Q501	E5	R068	B25	R559	C1	R2124	D48	R6511	D39
C302	B7	C804	A16	C2309	C35	D002	E27	IC2101	D47	Q509	B40	R072	B25	R560	D19	R2127	C48	R6512	B41
C303	B8	C805	B16	C2311	E27	D003	C14	IC2201	A29	Q515	B23	R073	C25	R561	E8	R2203	A29	R6513	D39
C309	D23	C806	B16	C2313	C34	D006	C1	IC2302	C33	Q551	E6	R074	C25	R563	E11	R2206	A30	R6515	D40
C310	D23	C807	D18	C2314	D35	D007	B15	IC2351	A33	Q603	D2	R075	B26	R564	E11	R2207	B30	R6516	D39
C314	D24	C808	D18	C2315	D34	D008	B15	IC3001	A32	Q751	E30	R076	C26	R566	D16	R2221	D29	R6518	D41
C315	D24	C809	C17	C2321	C35	D009	B15	IC3001	B38	Q752	E31	R077	C26	R569	E46	R2301	C19	R6519	D41
C320	B7	C810	C13	C2324	D34	D011	B15	IC6501	A43	Q753	E31	R078	B26	R573	D18	R2305	C35	R6520	D40
C321	B7	C811	C13	C2325	C35	D014	C25	IC6502	B42	Q801	B19	R079	B26	R574	D18	R2306	C35	R6522	D40
C322	B7	C812	A14	C2326	C34	D015	C26	JK3001	A37	Q802	B18	R201	D1	R601	D4	R2307	C33	R6523	B41
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C324	B7	C815	B18	C2328	C35	D451	D6	JK3001	A4	Q1801	D49	R225	B5	R619	D1	R2311	E25	R6526	B42
C330	E16	C818	B19	C2329	C35	D502	D3	JK3001	A4	Q1802	D49	R226	B5	R620	D1	R2312	E26	R6535	D40
C331	E15	C820	C19	C2331	E35	D530	D2	JK3001	B31	Q1803	C49	R245	C9	R752	E30	R2313	E26	R6537	A43
C337	D3	C821	C18	C2333	D35	D531	E2	JK3001	B31	Q1804	A51	R301	B10	R753	E29	R2318	D35	R6538	A43
C342	B5	C822	C18	C2339	E33	D532	C16	JK3001	B37	R1805	B51	R302	C10	R754	D20	R2319	D35	R6540	D42
C351	B10	C823	C20	C2340	D33	D533	B26	JK3001	C31	Q2101	D48	R303	B10	R755	E30	R2321	C35	R6542	C43
C352	C10	C824	A18	C2342	E34	D551	D13	JK3001	C31	Q2302	D34	R305	D23	R756	E30	R2322	C35	R6543	B43
C353	B10	C825	A17	C2350	B32	D554	D14	JK3002	A37	Q2303	D35	R306	D23	R757	E30	R2323	D34	R6544	D41
C354	D11	C1801	E49	C2351	B33	D555	E11	JK3002	C36	Q2342	E34	R309	D24	R758	E30	R2325	E33	R6545	B43
C357	C10	C1802	E49	C2352	B34	D556	E11	JK3002	D31	Q2343	D34	R310	D24	R759	E30	R2329	C35	R6548	D42
C401	D5	C1803	E50	C2353	B34	D557	D17	JK3002	D31	Q2344	D34	R312	C9	R760	E30	R2330	C34	R6549	C43
C403	D3	C1804	E50	C2354	B34	D558	E7	JK3004	D36	Q2409	E34	R328	C9	R761	E30	R2332	C34	R6553	A42
C404	B6	C1805	E50	C2355	B34	D559	E8	JK3004	E36	Q2410	E33	R341	B5	R762	E30	R2333	C35	R6554	B43
C405	D4	C1806	E20	C2356	B35	D561	D13	L001	C15	Q4309	A48	R351	B11	R763	E30	R2334	D35	R6555	B40
C407	D5	C1807	E19	C2357	B34	D751	D20	L002	A21	Q4310	A49	R352	C11	R764	E30	R2336	E35	R6556	B40
C409	D4	C1808	E19	C2358	A32	D801	A16	L003	D25	Q4311	B49	R353	B11	R765	E31	R2337	C32	R6557	C43
C415	B6	C1809	E19	C2359	B36	D802	A16	L004	D25	Q4312	C49	R354	B11	R766	E31	R2338	E33	R6558	B41
C451	D7	C1810	D50	C2360	B35	D805	A15	L005	C1	Q4313	B50	R355	C11	R767	E31	R2339	E33	R6559	B42
C452	D15	C1811	B51	C2361	B35	D806	D19	L006	C15	Q4315	E18	R356	B11	R768	E31	R2340	C34	R6560	C42
C453	D16	C1812	B51	C2362	A33	D807	D19	L007	B3	Q6501	D39	R357	B10	R801	A15	R2341	C34	R6565	D40
C454	D6	C1813	E18	C2363	B35	D809	C18	L008	A21	Q6502	D38	R358	C10	R804	B16	R2342	C35	R6566	D40
C455	D7	C1814	E20	C2364	B35	D820	B18	L010	B25	Q6504	B40	R359	B10	R805	A17	R2343	C35	R6567	D40
C456	D6	C1815	A50	C2365	E15	D821	B18	L011	B25	Q6505	D40	R360	B11	R806	B17	R2344	D34	R6568	D41
C457	C9	C1816	C51	C2366	E15	D822	B18	L012	B1	Q6506	D39	R361	C11	R808	D18	R2345	E34	RL801	A15
C458	D7	C1817	C51	C3001	E15	D823	B19	L013	B1	Q6509	B41	R362	C11	R809	C18	R2346	D34	RL801	E27
C459	D7	C1818	C51	C3002	E16	D824	C19	L106	B14	Q6510	D40	R363	B10	R810	D18	R2350	B32	S001	B21
C502	D3	C1819	E20	C3003	B38	D825	D17	L108	B14	Q6514	D41	R364	C10	R812	D19	R2351	B34	S002	B21
C503	E4	C1820	E19	C3004	B31	D826	B19	L109	B14	Q6516	B42	R365	B10	R813	D19	R2352	B34	S003	B21
C504	C6	C1821	E50	C3006	B31	D829	B17	L110	C23	Q6517	C42	R401	D4	R815	B13	R2353	B33	S004	B21
C505	B6	C1822	E49	C3007	B38	D830	C18	L218	B14	Q6519	D40	R402	D5	R818	C17	R2355	A32	S005	B21
C506	D3	C1823	E51	C3008	B38	D2101	E45	L319	B23	R001	B2	R403	D3	R820	E22	R2418	E34	S008	E22
C507	D3	C1826	C51	C3009	C31	D2301	E26	L351	D15	R002	B22	R405	D5	R821	E22	R2419	E33	S009	C21
C508	E2	C1827	E18	C3010	C38	D2305	B31	L430	D31	R003	E25	R408	D5	R822	A17	R3001	A39	SP1	C36
C510	E5	C1828	C51	C3011	C31	D2306	C31	L501	D3	R004	C14	R409	D5	R823	B18	R3003	D31	SP2	C36
C511	E5	C1829	D51	C3012	C38	D2307	B31	L518	B41	R005	C14	R410	D5	R824	B18	R3004	D31	T001	B14
C512	E5	C1830	D52	C3013	B38	D2308	B31	L541	D12	R006	D15	R411	D5	R825	A19	R3005	B38	T501	E5
C514	C6	C1831	D51	C3014	D31	D2309	E36	L543	E9	R007	E24	R412	D6	R826	A19	R3006	A38	T502	E4
C515	B23	C1832	D49	C3016															

## F

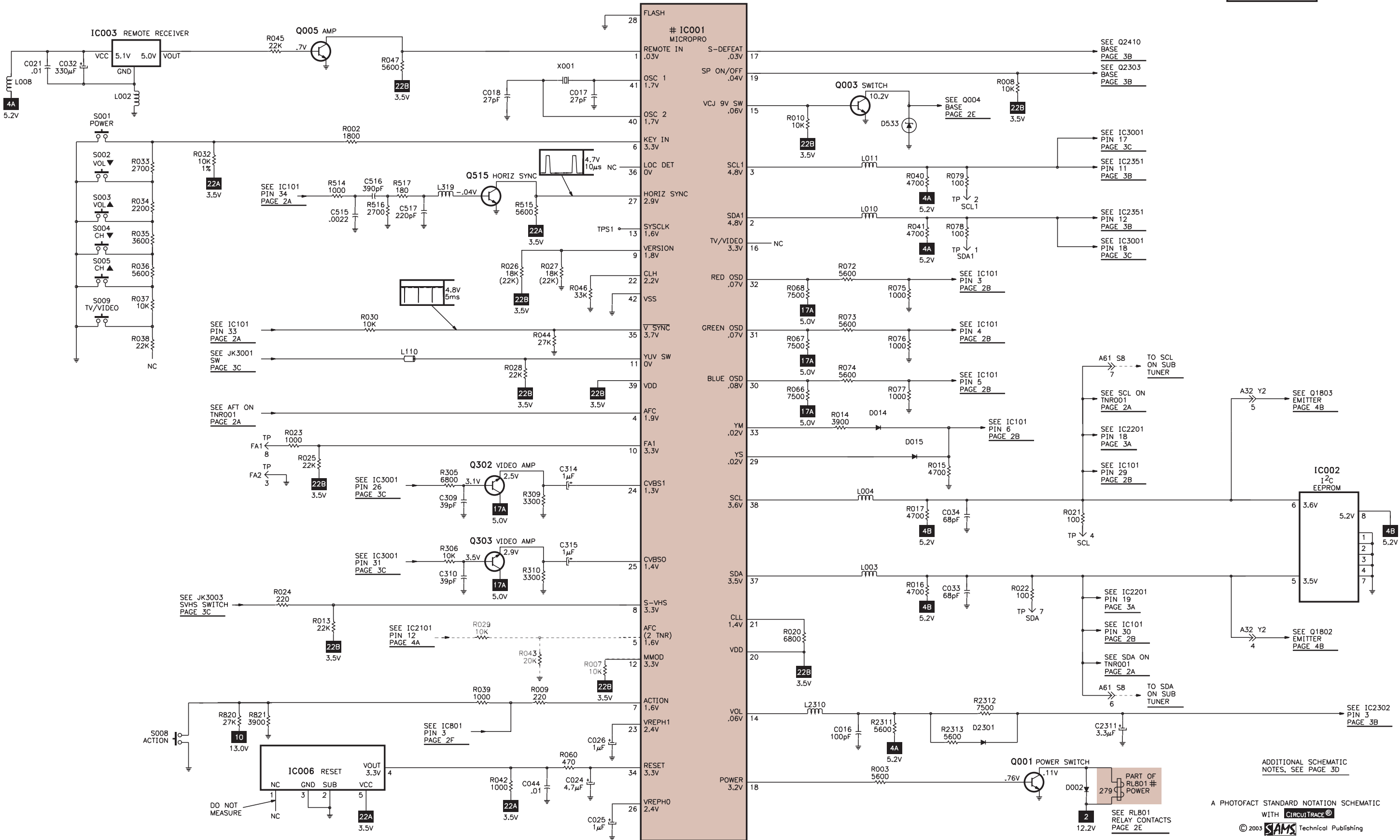


G

SYSTEM CONTROL SCHEMATIC

H

TUNERS NOT INCLUDED  
IN THIS COVERAGE



PANASONIC

MODEL CT-3207DF (CHASSIS QP341)

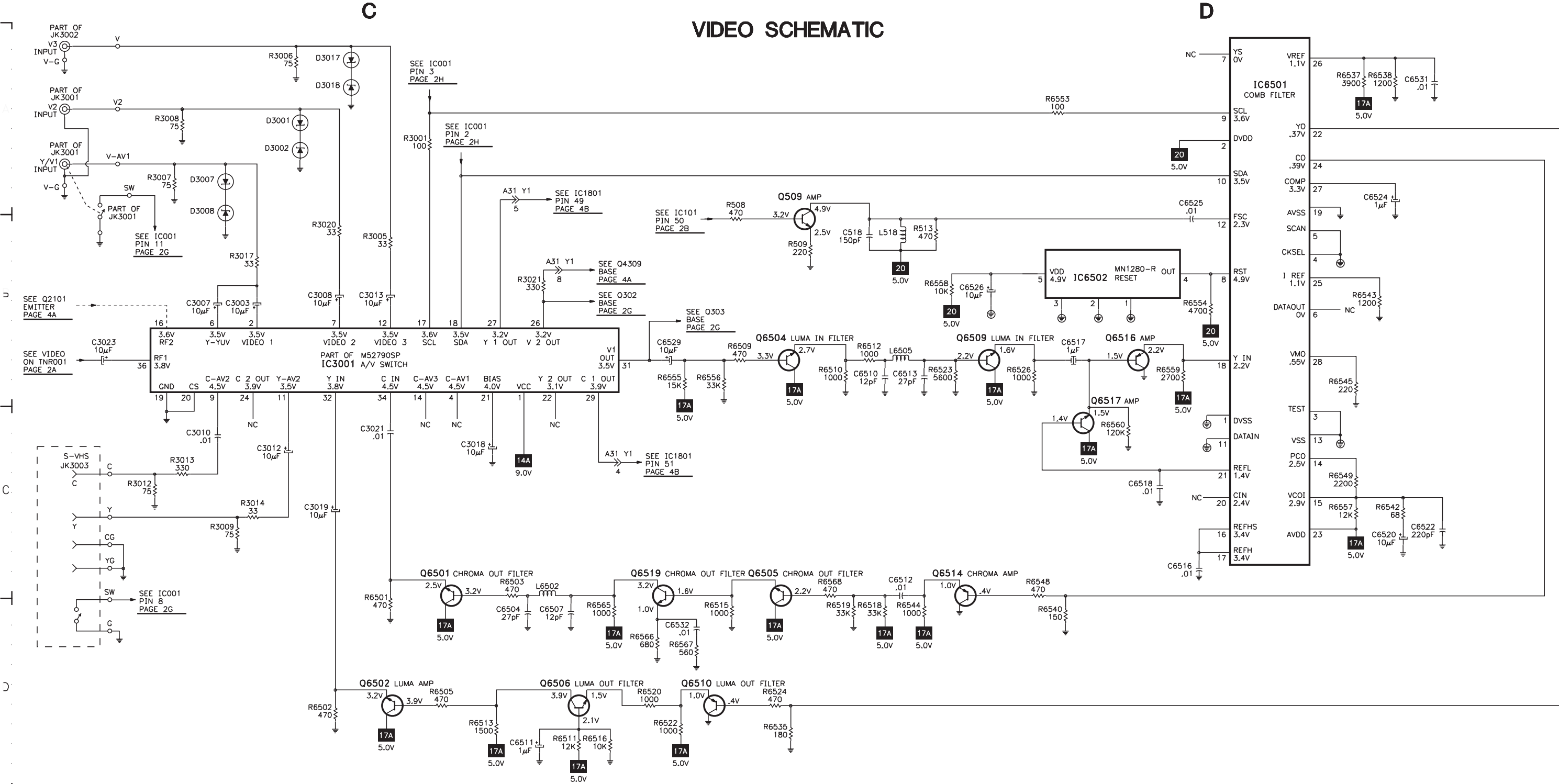
ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 3D

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
WITH CIRCUITRACE®  
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VIDEO SCHEMATIC



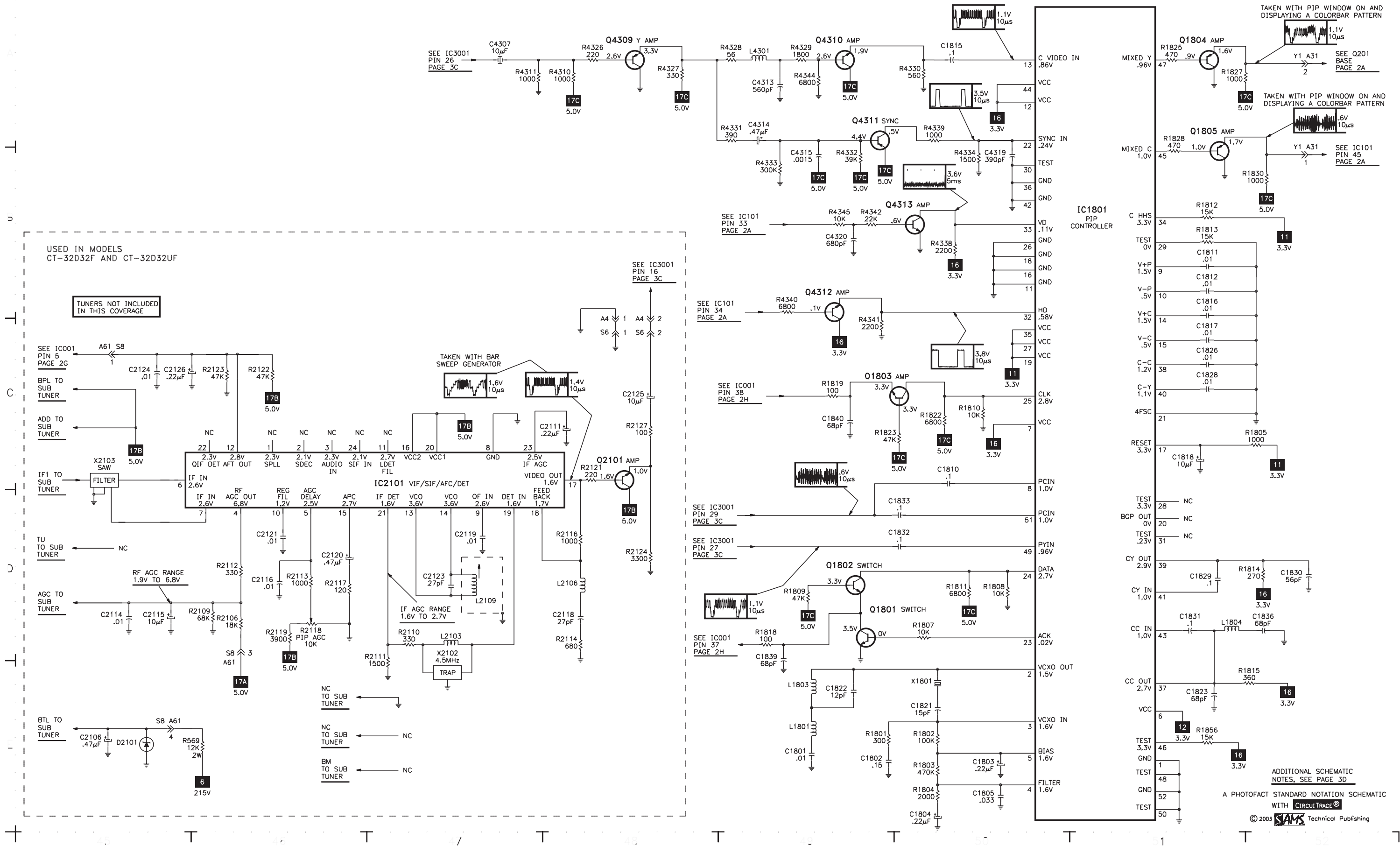
PANASONIC

MODEL CT-3207DF (CHASSIS 0P341)

SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement part, see parts list.
- Circuitry not used in some versions.
- Circuitry used in some versions.
- ⊥ Ground
- Chassis ground
- Common tie point
- △ Taken from common tie point
- 3 Schematic Voltage source tie point.
- A Cabling: Heavy lines reduce use of multiple lines.

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



PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Type No.	Mfr. Part No.	NTE Part No.	Item No.	Function/Rating	Mfr. Part No.	Notes
D001	-	ERA15-01V3	NTE116	Q2343, 44	2SD601A	2SD601ARTX	NTE2408	L1808	Ferrite Bead	EXCELDR25V	-
D002	-	MA165TA5VT	NTE519	Q2409, 10	2SD601A	2SD601ARTX	NTE2408	L2103	15µH	ELESN150KA	-
D003	-	MA4056MTA	-	Q4309	2SB709A	2SB709ARTX	NTE2409	L2106	56µH	ELESN560KA	-
D006	-	MA4330HTA	-	Q4310	2SD601A	2SD601ARTX	NTE2408	L2109	VCO	EIV7EN053B	-
D007, 08, 09	-	ERA15-01V3	NTE116	Q4311	2SB709A	2SB709ARTX	NTE2409	L2310	2.2µH	TLTABT2R2K	-
D011, 14	-	MA165TA5VT	NTE519	Q4312, 13	2SD601A	2SD601ARTX	NTE2408	L4301	3.9µH	ELESN3R9KA	-
D015	-	MA700ATA	-	Q4315	2SC1384Q	2SC1384QR	NTE293	L6502, 05	33µH	ELESN330JA	-
D018	-	MA165TA5VT	NTE519	Q6501, 02	2SD601A	2SD601ARTX	NTE2408	L6507	15µH	ELESN150KA	-
D451	-	ERA15-01V3	NTE116	Q6504, 05	2SD601A	2SD601ARTX	NTE2408	L6508	Ferrite Bead	EXCELSA26T	-
# D502	-	MA4062LTVTA	NTE5012A	Q6506, 09	2SD601A	2SD601ARTX	NTE2408	# M001	Line Cord	TSX2AA0111-1	AC, Polarized
D530	-	MA4082LTA	-	Q6510, 14, 16	2SB709A	2SB709ARTX	NTE2409	# M005	CRT	M80JUA061X	-
# D531	-	AS01V0	NTE552	Q6517, 19	2SD601A	2SD601ARTX	NTE2408	# M006	Socket	TJSC00300	CRT
D532	-	MA4091LTA	-					R032	10K 1% 1/10W	ERJ6ENF1002V	-
D533	-	MA4091MTA	-					R410	12.7K 1% 1/10W	ERJ6ENF1272V	-
# D551	RU2N	TVSRU2NV1	NTE552					R411	6800 1% 1/10W	ERJ6ENF6801V	-
# D554	-	BYD33G-163	-					R456	150 5% 3W	ERG3FJ151H	-
D555	-	MA165TA5VT	NTE519					R468	4320 1% 1/4W	ER0S2THF4321	-
D556	-	MA4360HTA	-					R469	1470 1% 1/4W	ER0S2THF1471	-
# D557	-	TVSRU2NV1	NTE552					# R510, 11	2000 5% 3W	ERG3FJ202H	-
# D558	-	RS3FS	NTE506					# R531	47 5% 1/4W	ERD25FJ470P	-
# D559	-	BYD33G-113	-					# R532	53.6K 1% 1/10W	ERJ6ENF5362V	-
# D561	-	BYD33G-163	-					# R533	16.9K 1% 1/10W	ERJ6ENF1692V	-
D751	-	MA2270B	-					# R550, 51, 52	1 5% 1/2W	ERDS1FJ1R0P	-
# D801, 02	-	GP15KL-042	-					R553	27 5% 3W	ERG3FJ270H	-
# D806	-	MA4047MTA	NTE5009A					# R558	1.8 5% 2W Fusible	ERQ2CJP1R8S	-
# D807	-	MA165TA5VT	NTE519					R560	-	TLTABT101K	-
# D809	-	RU3YX-MV1	NTE588					# R566	1 5% 1/2W	ERDS1FJ1R0P	-
D820, 21, 22	EU02	EU02V1	NTE552					R573	18 5% 3W	ERG3FJ180H	-
D823	-	RL30A	-						22 5% 3W	ERG3FJ220H	-
D824	EU02	EU02V1	NTE552					R754	5600 5% 3W	ERG3FJ562	-
# D825	SR2KL	TVSSR2KLV1	-					R760	5000 Horizontal Size	EVND8AA03B53	-
D826	EU02	EU02V1	NTE552					R761	10K PCC	EVND8AA03B14	-
D829	-	MA165TA5VT	NTE519					# R768	10 5% 2W Fusible	ERQ2CJP100S	-
# D830	-	MA4270MTA	-					# R801	1.5 10% 7W	ERF7ZK1R5	-
D2101	-	MA3330MTX	-					# R815	8.2M 20% 1/2W	ERC12ZGM825D	-
D2301	-	MA165TA5VT	NTE519					# R818	.56 5% 1/2W Fusible	ERQ12HJR56P	-
D2305 Thru	-		-					R824	39 5% 3W	ERG3FJ390H	-
D2312	-	MA4110MTA	-					# R826	.18 10% 2W	ERF2AKR18P	-
D2315, 42, 43	-	MA165TA5VT	NTE519					R828	47 5% 3W	ERG3FJ470	-
D3001 Thru	-		-					R829	6.8 5% 1W Fusible	ERQ14AJ6R8P	-
D3012	-	MA4110MTA	-					R2118	10K PIP AGC	EVND8AA03B14	-
D3017 Thru	-		-					R2301	2.2 5% 2W Fusible	ERQ2CJP2R2S	-
D3022	-	MA4110MTA	-					R3010, 11	75 1% 1/10W	ERJ6ENF75R0V	-
D4301	-	MA3036HTX	-					# RL801	Relay	TSEH8007	Power
# IC001	-	MN101C46FTH	-					S001	Switch	TSE2AD001	Power
IC002	-	TVR2AJ126	-					S002	Switch	TSE2AD001	Volume Down
IC005	-	PQ1R33	-					S003	Switch	TSE2AD001	Volume Up
IC006	-	PST9128NR	-					S004	Switch	TSE2AD001	Channel Down
# IC101	-	TA1310BN	-					S005	Switch	TSE2AD001	Channel Up
# IC451	-	LA7845N	-					S008	Switch	TSE2AD001	Action
IC551	-	AN78M09LB	NTE1902					S009	Switch	TSE2AD001	TV/Video
IC552	-	AN7805LB	NTE960					SP1, 2	Speaker	TAS2AA0016	2 1/4" X 5", 8 Ohms, 5W
# IC801	PC817	PC817X2	NTE3098					# T001	Power	TLP16297	-
# IC803	STR58041	STR58041A	NTE7078					# T501	Horizontal Driver	TLH15452	-
IC1801	-	M65617SP	-					# T502	Horizontal Coupling	ETE19Z30DY	-
IC2101	-	AN5170K	-					# T551 (1)	Horizontal Output	TLF2AA003	-
IC2201	-	AN5849S-E1V	-					# T751	-	ETE19Z30EY	-
IC2302	-	AN5272	-					# T801	Power	ETS29AK3L5NC	-
IC2351	-	CXA2021S	-					# TNR001 (2)	Tuner	ENG36604GR	-
IC3001	-	M52790SP	-					# TNR001 (3)	Tuner	ENGF6101G	-
IC6501	-	MN82840	-					# TNR002 (3)	Tuner	ENV56D61G3	-
IC6502	-	PST9142NR	-					X001	Crystal	TSSA092	-
Q001	2SD601A	2SD601ARTX	NTE2408					X501	Crystal	TSS2AA001	3.58MHz
Q002	2SC1685	2SC1685QRSTA	NTE85					X601	Crystal	TAFC5B503F30	503kHz
Q003	2SD601A	2SD601ARTX	NTE2408					X1801	Crystal	TSSA092	-
Q004	2SC1685	2SC1685QRSTA	NTE85					X2102	Filter	EFCS4R5MW5BA	4.5MHz
Q005	2SD601A	2SD601ARTX	NTE2408					X2103	Filter	M1972M	SAW
Q201	2SD601A	2SD601ARTX	NTE2408						Magnet	JH291U-009	Convergence
Q302, 03	2SD601A	2SD601ARTX	NTE2408						Magnet	0FMK014ZZ	Convergence Corrector
Q351, 52, 53	-	2SC3063RL	NTE157						PC Board (2)	TNP2AH017BH	A
Q401, 02	2SD601A	2SD601ARTX	NTE2408						PC Board (3)	TNP2AH017BK	A
# Q501	2SC4212	2SC4212HLB	NTE2501						PC Board	TNP2AA047AN	C
Q509, 15	2SD601A	2SD601ARTX	NTE2408						PC Board (3)	TNPA0190AL	S
# Q551	-	2SD5339LBMA1	-						PC Board	TNP2A159BD	Y
Q603	2SD601	2SD601ARTX	NTE2408						PC Board	TNP2AA010AE	Z
Q751	-	2SC1685QRSTA	NTE85						Transmitter (2)	EUR511501	Remote
Q752	-	2SA564AQRSTA	NTE290A						Transmitter (3)	EUR7613230	Remote
# Q753	-	2SD1266PLB	NTE377						Wedge	TMM2A30702	Yoke Positioning (3 Used)
Q801	2SC1685RS	2SC1685RSTA	NTE85								
Q802	2SC1384	2SC1384RS	NTE293								
Q804	2SA1767Q	-	-								
Q1801, 02, 03	2SD601A	2SD601ARTX	NTE2408								
Q1804, 05	2SB709A	2SB709ARTX	NTE2409								
Q2101	2SD601A	2SD601ARTX	NTE2408								
Q2302	2SB709A	2SB709ARTX	NTE2409								
Q2303	2SD601A	2SD601ARTX	NTE2408								
Q2342	2SB709A	2SB709ARTX	NTE2409								