

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 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 inner 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

Apply 120VAC. Connect a jumper wire to test points XRP1 and XRP2. The set should go into shutdown, losing picture and sound. If set does not go into shutdown, the shutdown circuit requires repair. To resume normal operation, remove jumper wire.

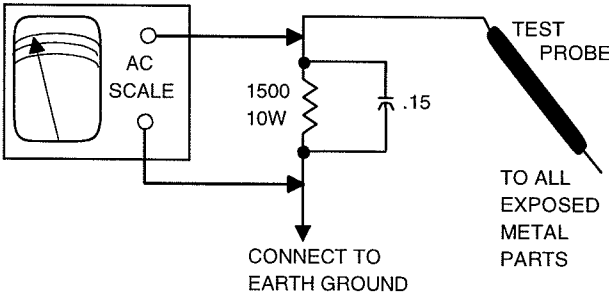
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

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.



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

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PHOTOFACT® Technical Service Data

SET 4275

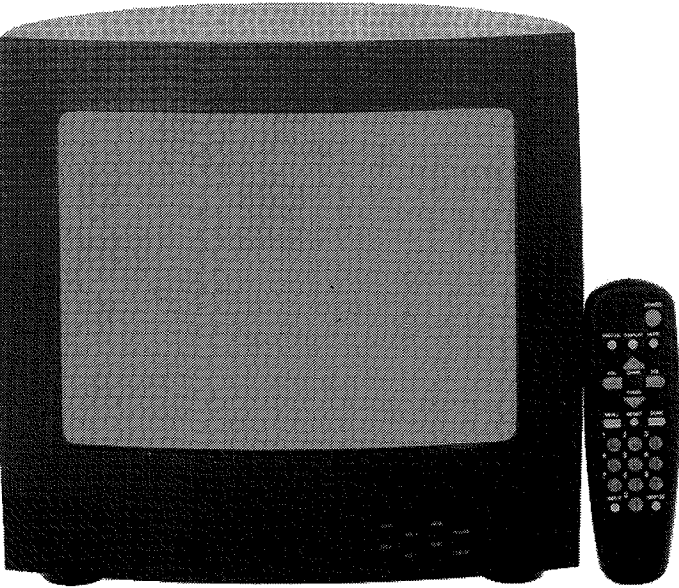
MODELS E13201BKC04/KF04 (CHASSIS TX825TB)

RCA

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RCA
Models E13201BKC04/KF04 (Chassis TX825TB)



Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list



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APRIL 2000 SET 4275

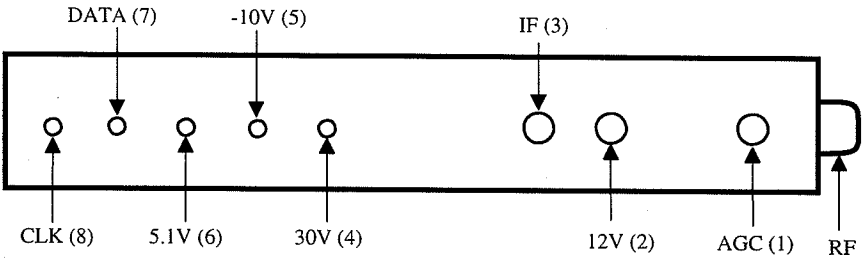
For Supplier Address,
See PHOTOFACT Annual Index

TUNER INFORMATION

TUNER VOLTAGE CHART			
Pin	VHF Low Band	VHF High Band	UHF Band
AGC (1)	4.0V	4.4V	4.9V
12V (2)	12.0V	12.0V	12.0V
IF (3)	0V	0V	0V
30V (4)	33.3V	33.3V	33.3V
-10V (5)	-11.7V	-5.6V	-11.7V
5.1V (6)	5.0V	5.0V	5.0V
DATA (7)	5.0V	5.0V	5.0V
CLK (8)	5.0V	5.0V	5.0V

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

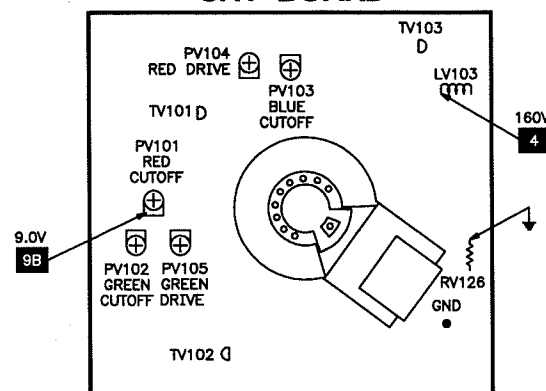


TEST EQUIPMENT

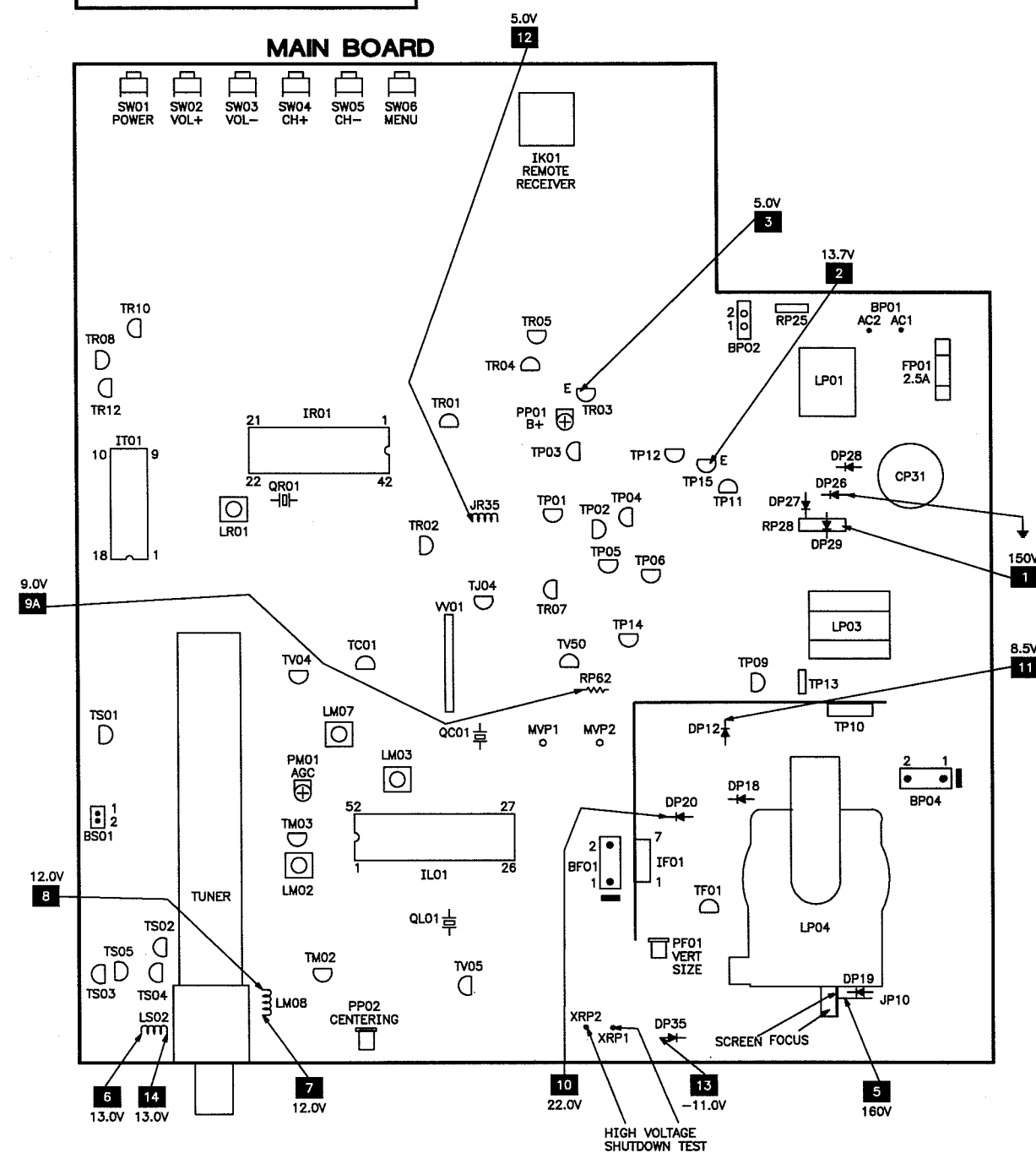
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.

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

CRT BOARD

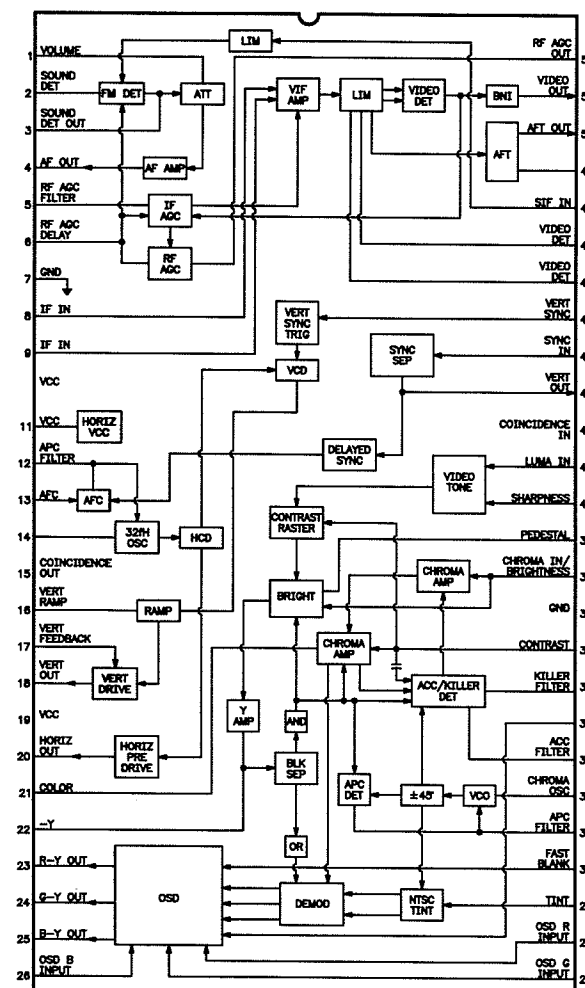


MAIN BOARD

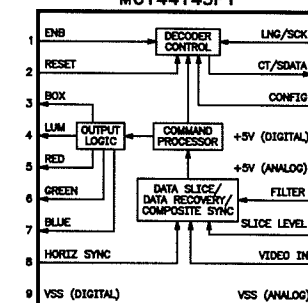


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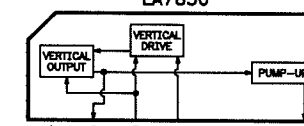
IL01
M52303ASP



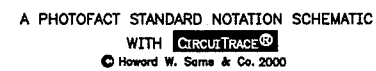
IT01
MC144143P1



IF01
LA7830



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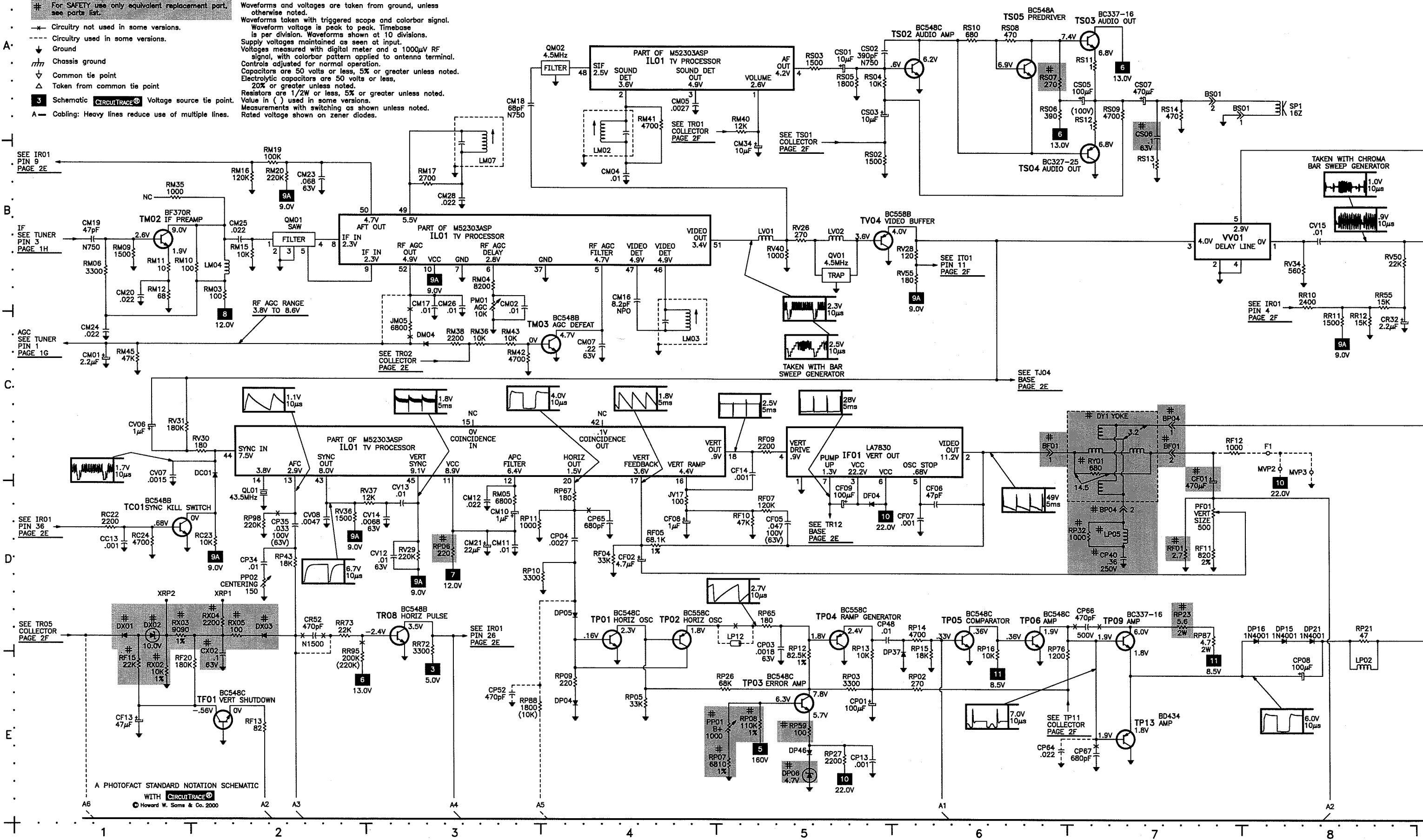


SCHEMATIC NOTES

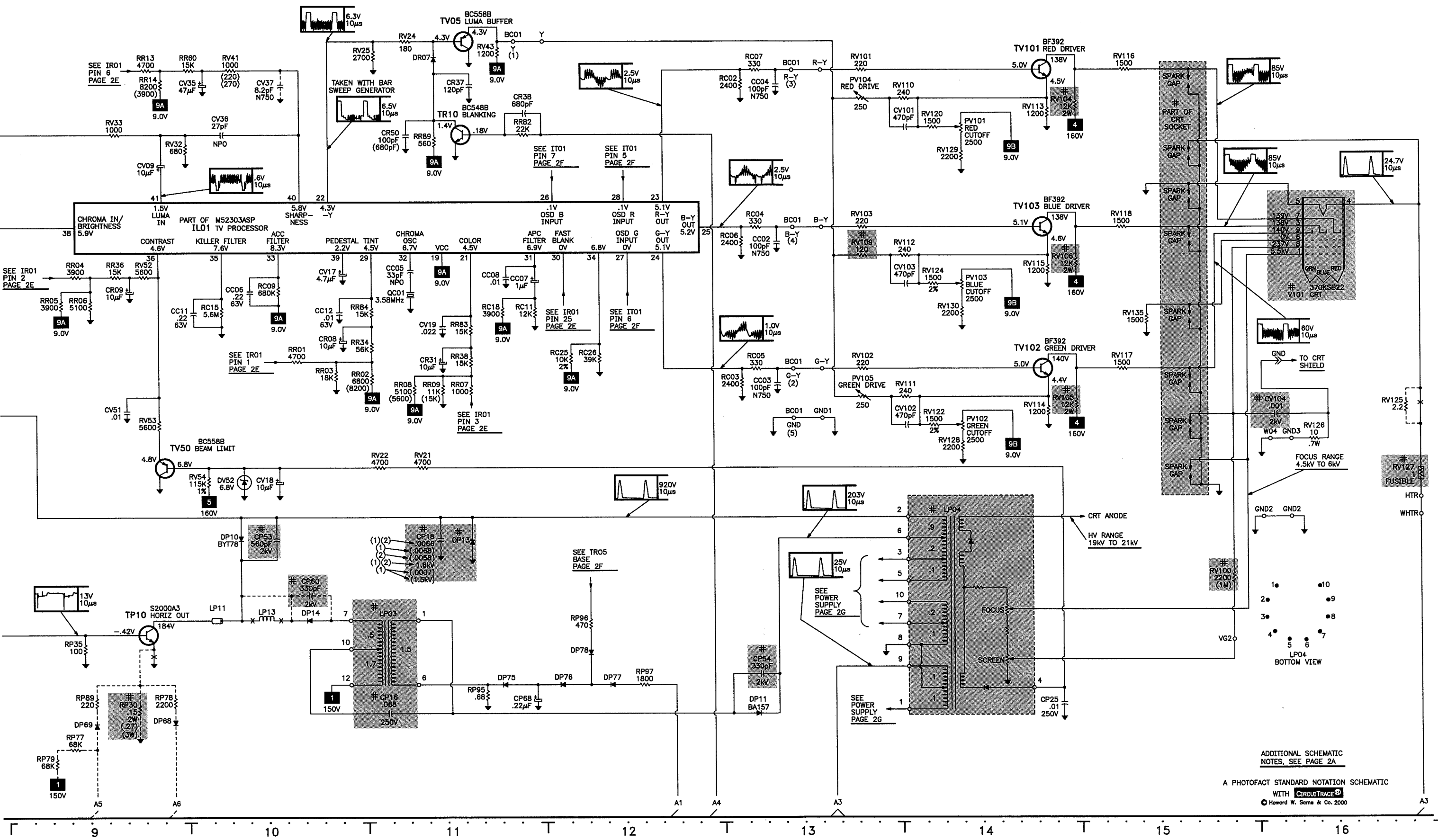
TELEVISION SCHEMATIC

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 CircuTrace® 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.



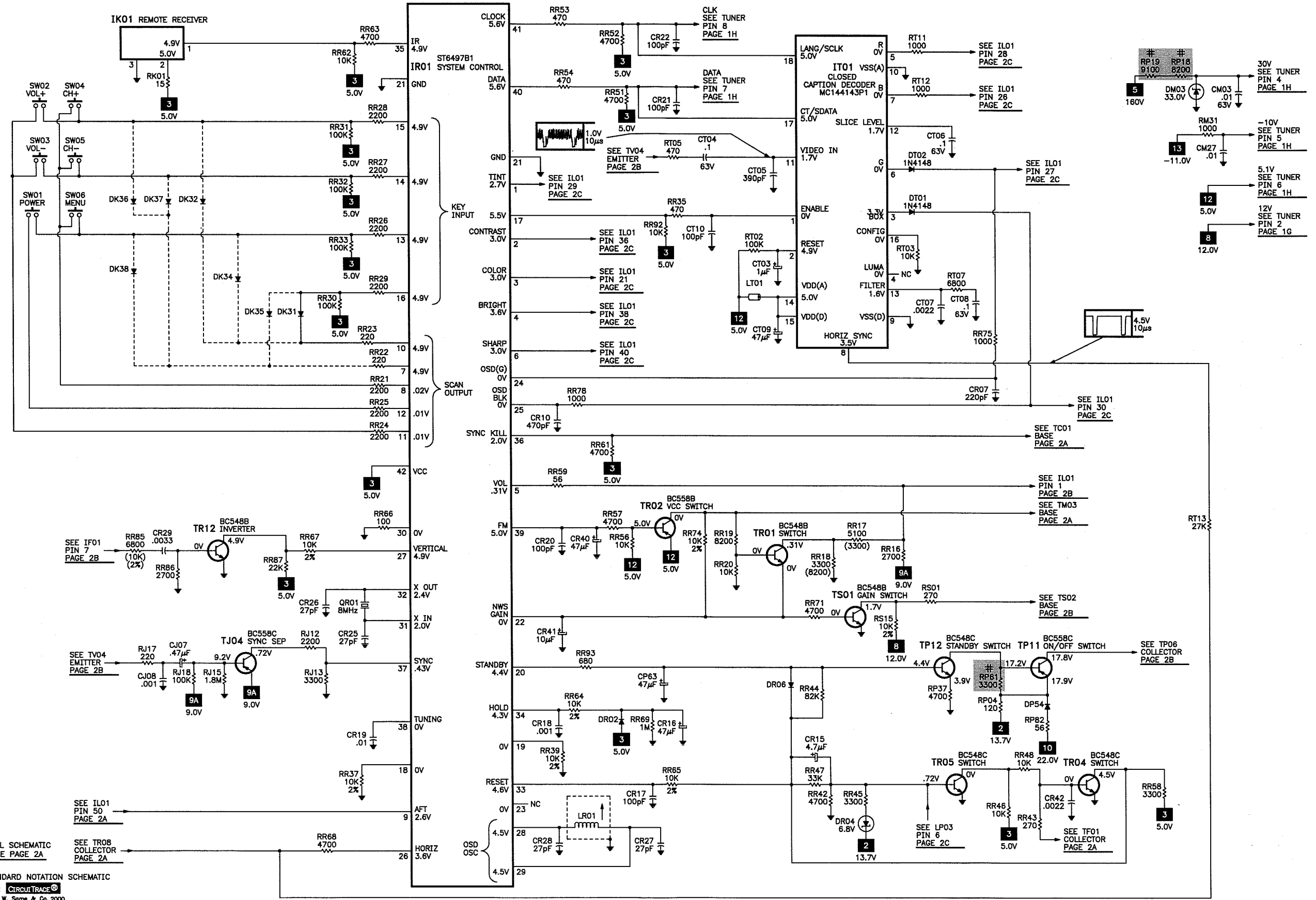
TELEVISION SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2A

A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**
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SYSTEM CONTROL SCHEMATIC



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2A

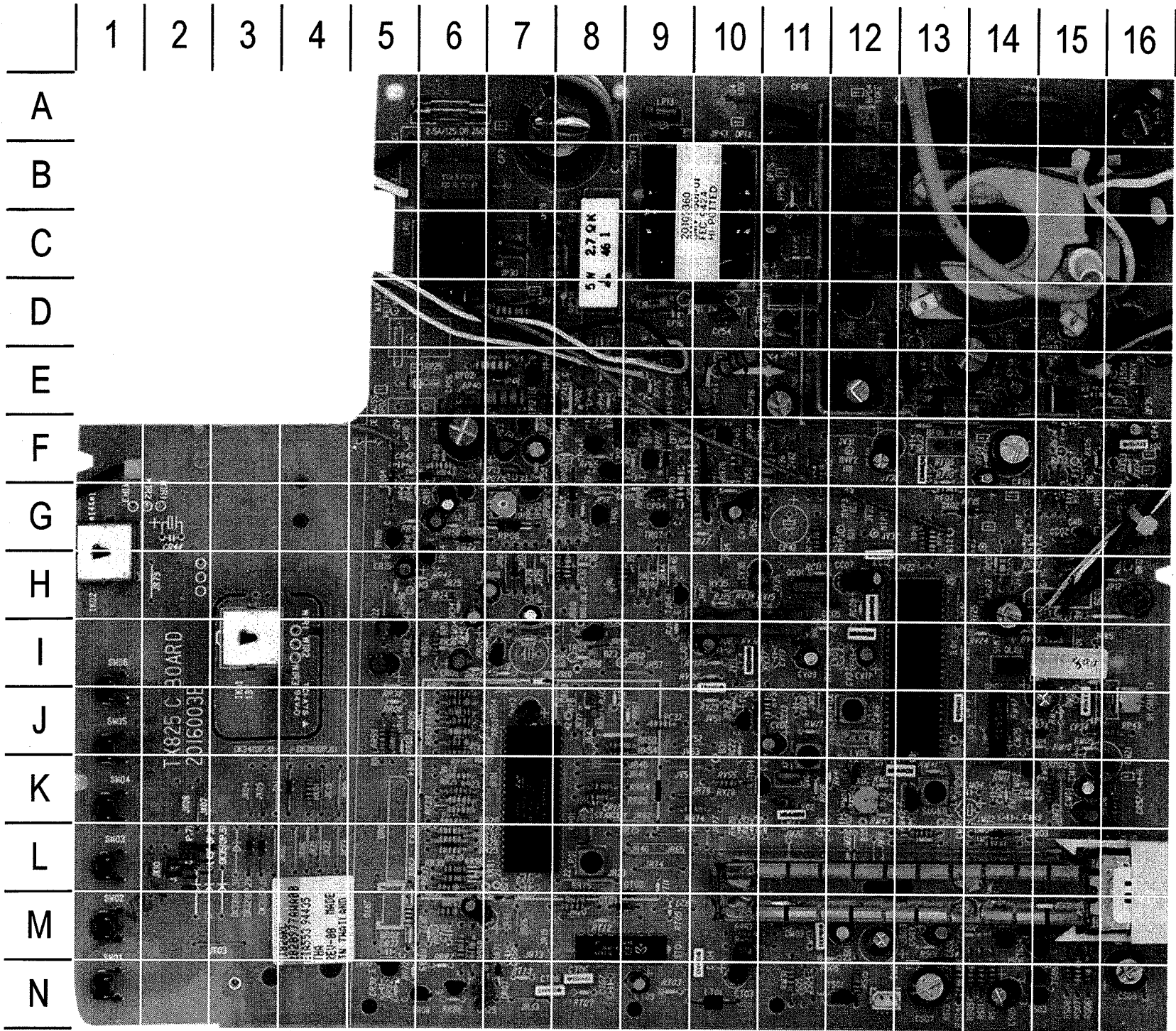
A PHOTOFACIT STANDARD NOTATION SCHEMATIC WITH CIRCUITRADE
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MODELS E13201BKC04/KF04 (CHASSIS TX825TB)

MAIN BOARD - TOP VIEW

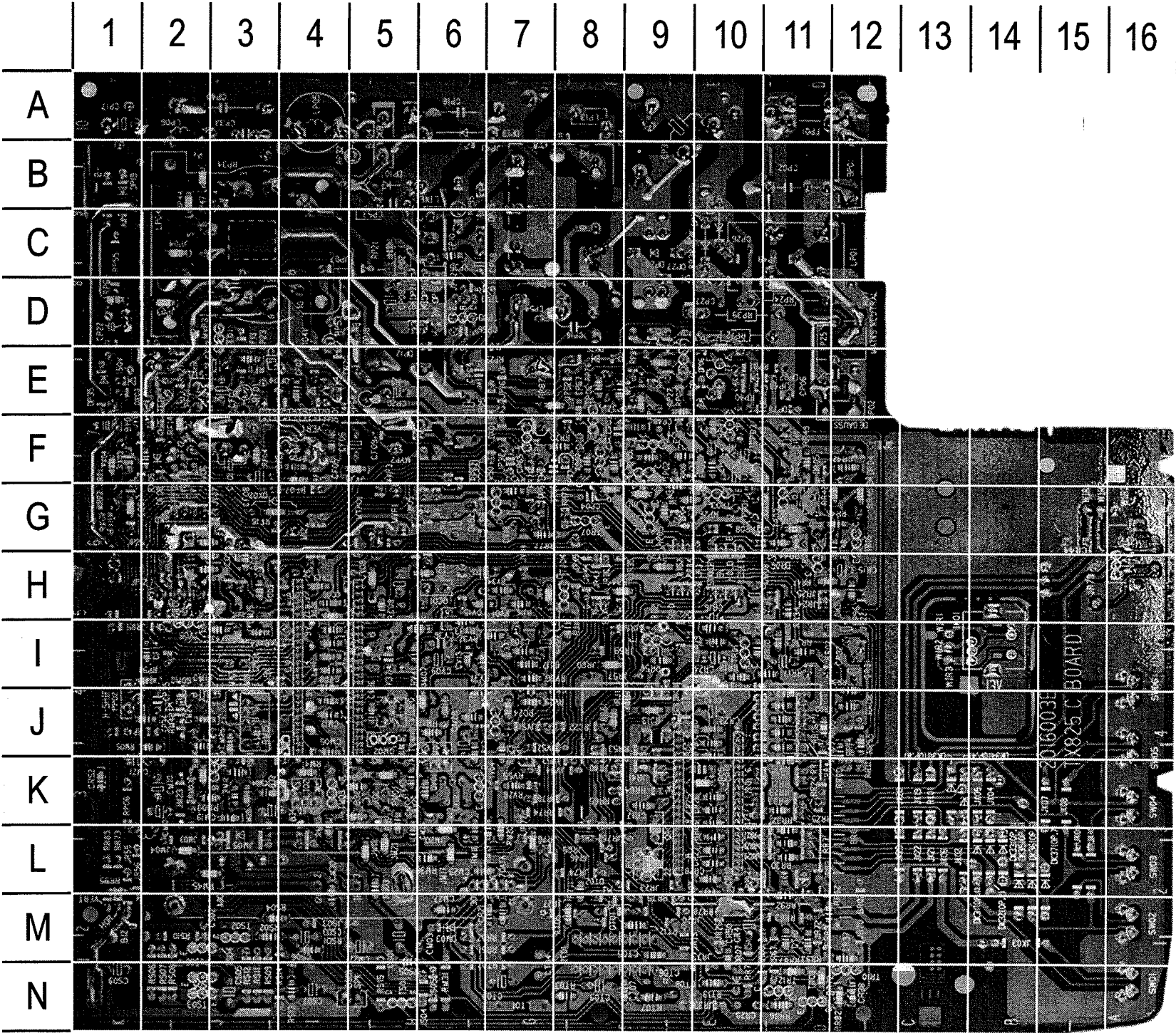


A HOWARD W. SAMS GRIDTRACE™ PHOTO

MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

BP01	F13	CR40	J7	IT01	M9	RP81	E6	TC01	J10
BP04	A12	CR41	M6	JM05	L14	RP82	E8	TF01	D14
BS01	N12	CS01	M12	JR35	H9	RP85	D8	TJ04	H9
CC02	G15	CS02	M15	JV17	G15	RP87	E10	TM02	K14
CC03	H15	CS03	M13	LM02	K13	RP95	C11	TM03	K13
CC04	H15	CS05	N14	LM03	J12	RR01	J6	TP01	G8
CC05	H12	CS06	M13	LM04	J15	RR02	I5	TP02	F8
CC06	H12	CS07	N13	LM07	J11	RR04	J6	TP03	G7
CC07	H12	CS09	N16	LM08	L16	RR07	J6	TP04	F8
CC11	I12	CT03	N10	LP01	C6	RR10	J6	TP05	F9
CC12	G12	CT04	N10	LP02	C12	RR11	J5	TP06	E9
CF01	F14	CT06	N8	LP03	B9	RR13	J6	TP09	D11
CF02	E14	CT08	N8	LP04	C14	RR14	J5	TP10	C11
CF05	F13	CT09	N9	LP05	A13	RR16	I6	TP11	E8
CF08	F14	CV06	J11	LP06	A15	RR21	K6	TP12	F7
CF09	F12	CV09	I11	LP11	C12	RR22	J6	TP13	D11
CF13	E14	CV12	I10	LP13	A9	RR23	K6	TP14	F10
CJ07	I10	CV14	I10	LR01	L8	RR24	K6	TP15	E7
CM01	K15	CV17	I12	LS02	M16	RR25	K6	TR01	I7
CM03	M11	CV18	G10	LT01	N10	RR26	K6	TR02	I8
CM07	K13	CV35	H10	LV01	K12	RR27	L6	TR03	G6
CM10	K15	CV36	I11	LV02	K11	RR28	L6	TR04	G6
CM13	J13	CX02	F16	PF01	E15	RR29	L6	TR05	G5
CM14	J15	DC01	J10	PM01	K12	RR35	L6	TR07	G9
CM15	H15	DF04	E13	PP01	G7	RR37	L6	TR08	N6
CM21	K16	DK31	L3	PP02	J16	RR39	L6	TR10	N5
CM22	M12	DM03	M11	QC01	I11	RR43	F6	TR12	N6
CM23	K11	DM04	L14	QL01	I14	RR51	M10	TS01	N12
CM34	H6	DP02	E7	QM01	J14	RR52	M10	TS02	M14
CP01	F7	DP04	G8	QM02	J12	RR53	J8	TS03	N15
CP02	B6	DP05	F8	QR01	L8	RR54	J8	TS04	M15
CP03	F9	DP06	E7	QV01	K11	RR57	J8	TS05	N15
CP04	G9	DP10	B12	RC02	H14	RR59	J6	TV04	K11
CP05	E11	DP11	D10	RC18	G12	RR63	M6	TV05	I15
CP06	E5	DP12	E12	RC22	J9	RR64	K8	TV50	G10
CP08	D12	DP13	A11	RC25	G11	RR65	K8	VV01	I11
CP13	F7	DP14	A9	RF01	E14	RR67	M6	XRP1	F16
CP16	D9	DP15	D12	RF07	G13	RR68	M6	XRP2	G16
CP17	A16	DP16	D12	RF09	G15	RR70	G9		
CP18	A11	DP18	D12	RF13	E13	RR71	N7		
CP20	E12	DP19	B16	RF20	E15	RR73	M16		
CP22	D16	DP20	E13	RK01	K4	RR74	K10		
CP23	E14	DP21	D12	RM03	K15	RR75	M8		
CP25	E15	DP26	C7	RM31	N31	RR76	F10		
CP26	C7	DP27	C8	RM35	K14	RR78	M8		
CP27	D7	DP28	C7	RM38	L13	RR83	G14		
CP31	A7	DP29	C8	RP02	E8	RR84	H8		
CP33	A14	DP35	E16	RP03	G7	RR85	M16		
CP35	J15	DP37	F8	RP04	D7	RR89	M5		
CP40	A15	DP46	E7	RP06	K16	RS06	N15		
CP41	F6	DP54	D8	RP08	G7	RS07	N15		
CP42	G11	DP67	F10	RP11	G13	RS08	N15		
CP47	F16	DP75	B11	RP18	G16	RS09	N14		
CP48	E8	DP76	E9	RP19	F15	RS10	M15		
CP53	B12	DP77	F9	RP23	E10	RS11	N14		
CP54	D10	DP78	E6	RP24	D6	RS12	N14		
CP55	E13	DR02	H7	RP25	E5	RS14	N13		
CP56	F9	DR04	F5	RP28	C8	RS15	N12		
CP59	D13	DR05	F5	RP32	B12	RT02	M10		
CP63	F7	DR06	G6	RP34	B14	RV21	E15		
CP65	F10	DR07	N7	RP38	C7	RV22	F11		
CP66	D11	DT01	M9	RP39	D7	RV28	K10		
CP68	C11	DT02	M9	RP40	E7	RV30	J11		
CR08	H7	DV52	G11	RP43	J16	RV52	H8		
CR09	I6	DX01	F10	RP53	D13	RV54	F11		
CR11	G6	DX02	G14	RP55	C16	RX03	F16		
CR12	G6	DX03	E16	RP56	D16	SW01	NI		
CR15	H5	FP01	A6	RP62	F11	SW02	M1		
CR16	H7	IF01	E14	RP63	D16	SW03	L1		
CR29	N7	IK01	I3	RP67	G13	SW04	K1		
CR31	I5	IL01	J13	RP68	E12	SW05	K1		
CR32	I5	IR01	J7	RP72	D7	SW06	J1		

MAIN BOARD - BOTTOM VIEW



A HOWARD W. SAMS GRIDTRACE™ PHOTO

MAIN BOARD - BOTTOM VIEW, GRIDTRACE
LOCATION GUIDE

CC08	H4	RJ15	H7	RR60	J12
CC13	J6	RJ17	I7	RR61	J8
CF06	F4	RJ18	I8	RR62	M12
CF07	E4	RM04	K5	RR66	L10
CF14	I2	RM05	J2	RR69	I10
CJ08	I7	RM06	K2	RR72	N12
CM02	K5	RM09	K3	RR77	G7
CM04	K3	RM10	J2	RR82	N12
CM05	J4	RM11	K3	RR86	N11
CM11	I4	RM12	K3	RR87	N11
CM12	I4	RM15	J3	RR92	L11
CM16	J5	RM16	L6	RR93	M11
CM17	J4	RM17	J6	RR95	L1
CM18	J5	RM19	L7	RS01	M4
CM19	K3	RM20	L7	RS02	M3
CM20	K3	RM36	L6	RS03	L5
CM24	J2	RM40	I11	RS04	M3
CM25	J3	RM41	K4	RS05	M6
CM26	L5	RM42	K5	RS13	N4
CM27	M6	RM43	L4	RT03	N8
CM28	J6	RM45	L3	RT05	M8
CM29	L7	RP05	G9	RT07	N9
CM30	L4	RP07	G11	RT11	L8
CP34	J2	RP09	F9	RT12	M9
CP49	E11	RP10	G8	RT13	N10
CP67	E8	RP12	F9	RV24	I3
CR07	L10	RP13	F9	RV25	H14
CR10	L10	RP14	E9	RV26	K6
CR17	K9	RP15	F8	RV29	J7
CR18	K10	RP16	E8	RV31	J6
CR19	J10	RP21	C5	RV32	I7
CR20	J10	RP26	G10	RV33	I6
CR21	M7	RP27	E9	RV34	H7
CR22	M7	RP35	C6	RV36	I7
CR23	J10	RP37	F10	RV37	I7
CR25	K10	RP59	F10	RV40	K5
CR26	K10	RP61	E9	RV41	I6
CR27	L10	RP64	D1	RV43	I3
CR28	L10	RP65	F9	RV50	H9
CR37	M12	RP70	F8	RV53	G7
CR38	N12	RP76	E8	RV55	K7
CR42	F12	RP96	H12	RX02	G1
CR50	M10	RP97	F8	RX04	F1
CR52	K1	RP98	I2	RX05	F2
CT05	M9	RR03	J11		
CT07	N9	RR05	J12		
CT10	M11	RR06	J11		
CV07	J4	RR08	J12		
CV08	J4	RR09	J11		
CV13	I6	RR12	J11		
CV15	H6	RR17	I11		
CV19	H4	RR18	I10		
CV51	I4	RR19	I10		
RC03	H3	RR20	I11		
RC04	G3	RR30	L11		
RC05	H3	RR31	L11		
RC06	H3	RR32	L11		
RC07	H3	RR33	K11		
RC09	H5	RR34	H11		
RC11	H6	RR36	I11		
RC15	I4	RR38	J12		
RC23	J7	RR42	G12		
RC24	J7	RR44	G11		
RC26	H4	RR45	G12		
RF04	F3	RR46	G12		
RF05	F4	RR47	H12		
RF10	F4	RR48	G12		
RF11	E3	RR49	F11		
RF15	G3	RR55	J12		
RJ12	J9	RR56	I9		
RJ13	J9	RR58	G11		

RCA

MODELS E13201BKC04/KF04 (CHASSIS TX825TB)

PARTS LIST

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
DC01	-	198589	-	-
DF04	-	198597	-	-
DK31, 32	-	198589	-	-
DK34 Thru				
DK38	-	198589	-	-
DM03	-	198600	-	-
DM04	-	198589	-	-
DP02	-	220637	-	-
DP04, 05	-	198589	-	-
# DP06	-	223083	-	-
DP10	BYT78	198594	-	-
DP11, 12	BA157	198590	ECG552	NTE558
# DP13	-	198596	-	-
DP14	-	210226	-	-
DP15, 16	1N4001	198597	ECG116	NTE116
DP18, 19, 20	BA157	198590	ECG552	NTE558
DP21	1N4001	198597	ECG116	NTE116
# DP26 Thru				
# DP29	1N4004	209919	ECG116	NTE116
DP35, 37, 46, 54	-	198589	-	-
DP67	-	220637	-	-
DP68, 69	-	198589	-	-
DP75	-	198590	-	-
DP76, 77, 78	-	198589	-	-
DR02	-	198589	-	-
DR04	-	220638	-	-
DR05	-	220639	-	-
DR06, 07	-	198589	-	-
DT01, 02	1N4148	198589	-	-
DV52	-	220638	-	-
# DX01	-	198589	-	-
# DX02	-	159429	-	-
# DX03	-	198589	-	-
IF01	LA7830	188086	ECG1773	NTE1773
IL01	M52303ASP	210543	-	-
IR01	ST6497B1	225630	-	-
IT01	MC144143P1	220114	-	-
TC01	BC548B	198743	ECG123AP	NTE123AP
TF01	BC548C	198746	ECG199	NTE199
TJ04	BC558C	198745	-	-
TM02	BF370R	206017	-	-
TM03	BC548B	198743	-	-
TP01	BC548C	198746	ECG199	NTE199
TP02	BC558C	198747	ECG159	NTE159
TP03	BC548C	198746	ECG199	NTE199
TP04	BC558C	198747	ECG159	NTE159
TP05	BC548C	198746	ECG199	NTE199
TP06	BC548C	198746	ECG199	NTE199
TP09	BC337-16	216099	ECG123AP	NTE123AP

For SAFETY use only equivalent replacement part.

SEMICONDUCTORS continued

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	ECG Part No.	NTE Part No.
TP10	S2000A3	198794	ECG2354	-
	S2000AF	227518	ECG2354	-
TP11	BC558C	198747	ECG159	NTE159
TP12	BC548C	198746	ECG199	NTE199
TP13	BD434	220673	ECG185	NTE153
TP14	BC337-16	216099	ECG123AP	NTE123AP
TP15	-	198752	-	-
TR01	BC548B	198743	ECG123AP	NTE123AP
TR02	BC558B	198745	-	-
TR03	BC548B	198743	ECG123AP	NTE123AP
TR04, 05	BC548C	198746	ECG199	NTE199
TR07	BC337-16	216099	ECG123AP	NTE123AP
TR08, 10, 12	BC548B	198743	ECG123AP	NTE123AP
TS01	BC548B	198743	ECG123AP	NTE123AP
TS02	BC548C	220674	ECG199	NTE199
TS03	BC337-16	216099	ECG123AP	NTE123AP
TS04	BC327-25	220675	ECG298	NTE298
TS05	BC548A	220674	ECG199	NTE199
TV04, 05, 50	BC558B	198745	-	-
TV101, 02, 03	BF392	198763	ECG287	NTE287

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.

- Custom Components Corporation (Chek-A-Color)
- NTE Electronics, Inc. (NTE)
- Philips ECG Company (ECG)
- Terrell & Nobis (TNI Electronics)
- Sencore, Inc.

CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
CC02, 03, 04	100pF 5% 50V N750	198579
CC05	33pF 5% 50V NPO	210153
# CF01	470µF 20% 25V	220623
CM16	8.2pF 10% 50V NPO	202047
CM18	68pF 5% 50V N750	198554
CM19	47pF 5% 50V N750	198555
# CP02	.1 20% 250V	220625
# CP06	.068 20% 250V	220627
# CP16	.068 20% 250V	220627
# CP17	100µF 20% 160V	194728
# CP18 (1)(2)	.0066 1.6kV	198562
# CP18 (1)	.0068 1.6kV	205418
# CP18 (1)	.0007 1.5kV	228280
# CP18 (2)	.0058 1.6kV	220796
# CP20	1000µF 20% 16V	185862
# CP22	22µF 20% 100V	210156
# CP23	1000µF 20% 35V	190721
# CP26, 27	.0015 10% 1kV	198565
# CP31	330µF 20% 200V	182286
# CP40	.36 5% 250V	198567
# CP41	1000µF 20% 25V	190721
# CP53	560pF 2kV	198568
# CP54	330pF 2kV	198569
# CP55	.001 1kV	198570
# CP60	330pF 2kV	198569
CR52	470pF 5% 50V N1500	198572
CS02	390pF 5% 50V N750	220630
# CS06	.1 10% 63V	220631
CV36	27pF 5% 50V NPO	220634
CV37	8.2pF 10% 50V N750	220918
# CV104	.001 10% 2kV	198806
# CX02	.1 10% 63V	198551

For SAFETY use only equivalent replacement part.

(1) Used with CRT 370KSB22.

(2) Used with CRT A34JLN60X.

CABINET PARTS

Item	Mfr. Part No.
Models E13201BKC04/KF04	
Back Cover	BK1553
Button Assembly	221587
Cabinet Front	MK1582
IR Window	221027
Remote Transmitter	
Battery Door	220919

PARTS LIST continued

CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
PF01	500 Vertical Size	198627	-
PM01	10K AGC	198628	-
# PP01	1000 B+	198629	-
PP02	150 Centering	210546	-
	150 Centering	225631	-
PV101	2500 Red Cutoff	216051	-
PV102	2500 Green Cutoff	216051	-
PV103	2500 Blue Cutoff	216051	-
PV104	250 Red Drive	216052	-
PV105	250 Green Drive	216052	-
RC25	10K 2% 1/4W	829310	QW310
# RF01	2.7 5% 1/2W	198648	HW2D7
RF05	68.1K 1% .16W	198790	-
# RF15	22K 5% .16W	198714	-
# RP06	220 5% 1/4W	209917	QW122
# RP07	6810 1% .16W	220649	-
# RP08	110K 1% .4W	220650	-
RP12	82.5K 1% .16W	220651	-
# RP18	8200 5% 1/4W	175366	QW282
# RP19	9100 5% 1/4W	829291	QW291
# RP23	5.6 5% 2W	220652	2W5D6
# RP24	470K 10% 1/2W	180243	HW447
# RP25	7.5 Cold PTC	198688	-
# RP28	2.7 10% 7W Wirewound	194300	-
	2.7 10% 5W Wirewound	220653	5W2D7
# RP30	.15 5% 2W	832815	2WD15
	.27 5% 3W	221585	3WD27
# RP32	1000 10% 1/2W	206386	HW210
# RP34	33 5% 1W	198695	1W033
# RP39	220 5% .43W	220656	-
# RP53	.39 5% 1/4W	198701	-
# RP55	10 5% .35W	210185	-
# RP56	15K 5% 1/4W	198703	QW315
# RP59	100 5% .16W	198660	-
# RP61	3300 5% .16W	198638	-
# RP68	.68 5% .4W	216049	-
RR11	1500 2% 1/4W	829215	QW215
RR37, 39, 64	10K 2% 1/4W	829310	QW310
RR65, 67, 74	10K 2% 1/4W	829310	QW310
RR76	680 2%	-	-
	680 5% 1/4W	220664	-
RR77	680 2% .16W	220665	-
RR85	6800 5% 1/4W	220662	QW268
	10K 2% 1/4W	829310	QW310
# RS07	270 5% 1/4W	220648	QW127
RS15	10K 2% 1/4W	829310	QW310
RV54	115K 1% 1/4W	210194	-
# RV100	2200 5% 1/2W	176632	HW222
	1M 5% 1/2W	180028	HW510
# RV104, 05, 06	12K 5% 2W	183193	2W312

For SAFETY use only equivalent replacement part.

CONTROLS & RESISTORS continued

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# RV109	120 5% 1/4W	210196	QW112
RV122, 24	1500 2% 1/4W	829215	QW215
# RV127	1 10% .3W Fusible	220672	-
# RX02	10K 1% 1/4W	198739	-
# RX03	9090 1% 1/2W	198740	-
# RX04	2200 5% .16W	198698	-
# RX05	100 5% .16W	198660	-
# RY01	680 5% 1/2W	175364	-

For SAFETY use only equivalent replacement part.

COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
# DY1 (1)	Yoke Horiz 2.5mH Vert 23.8mH	204903
# DY1 (2)	Yoke	198805
JR35	100µH	220641
LM02	Sound Detector	198613
LM03	Video Detector	206385
LM04	.82µH	198615
LM07	AFT	210787
LM08	47µH	198617
# LP01	Line Filter	190507
	Line Filter	228335
LP02	6µH	198619
# LP03	Switch Mode	220642
# LP04 (3)	Horizontal Output	198622
# LP05 (1)	90µH	205416
# LP05 (2)	112µH	198623
LP06	50µH	198624
LP11, 12	Ferrite Bead	224167
LP13	6µH	198619
# LP99	Degaussing	198807
LR01	35µH OSD Oscillator	205430
LS02	47µH	198617
LT01	Ferrite Bead	220643
LV01	1.5µH	198783
LV02	12µH	198782
LV103	150µH	210247

For SAFETY use only equivalent replacement part.

- (1) Used with CRT 370KSB22.
(2) Used with CRT A34JLN60X.
(3) Focus and screen controls are part of LP04.

MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
# BF01	Connector	198778	Yoke, Vertical
# BP01	Line Cord	198540	AC, Polarized
# BP04	Connector	198777	Yoke, Horizontal
# FP01	Fuse	198605	2.5Amp, 250V
IK01	Receiver	225629	Remote
	Receiver	216467	Remote
QC01	Crystal	198630	3.58MHz
QL01	Crystal	198633	43.5MHz
QM01	Filter	210250	SAW
QM02	Filter	210239	4.5MHz
QR01	Crystal	210549	8MHz
QV01	Trap	205431	4.5MHz
SP1	Speaker	198787	2 3/4" X 1 1/2", 16 Ohms, 2W
SW01	Switch	215500	Power
SW02	Switch	215500	Volume +
SW03	Switch	215500	Volume -
SW04	Switch	215500	Channel +
SW05	Switch	215500	Channel -
SW06	Switch	215500	Menu
# V101	CRT	370KSB22	-
	CRT	A34JLN60X	-
VV01	Delay Line	198753	-
#	Adapter	193983	Antenna, 75 To 300 Ohms
	Antenna	220689	UHF/VHF
#	Connector	200489	Antenna
	Magnet (1)	196283	Beam Bending
	Magnet (2)	179805	Beam Bending
	PC Board	223147	CRT
#	Socket	224146	CRT
#	Socket	198812	CRT
	Transmitter	226109	Remote, CRK63C1
	Tuner (3)	198626	UHF/VHF, M-2006
	Wedge	149903	Yoke Positioning (3 Used)

For SAFETY use only equivalent replacement part.

- (1) Used with CRT 370KSB22.
(2) Used with CRT A34JLN60X.
(3) Contact TNI Electronics for replacement; order by part number on tuner.