

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

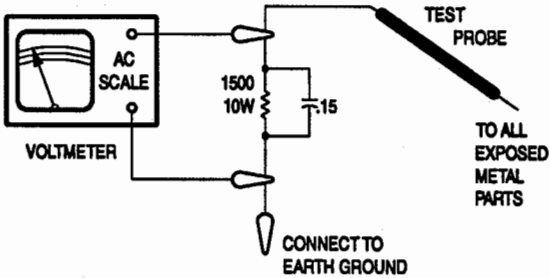
Perform a final SAFETY CHECK before returning receiver to customer. Check repaired area for poorly soldered connections, and check entire circuit board for solder splashes. Check inner board wiring for pinched wires or wires contacting any high wattage resistors. Check that all control knobs, shields,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

SAFETY CHECKS – FIRE AND SHOCK HAZARD
Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



HIGH VOLTAGE SHUTDOWN TEST

After servicing the high voltage circuits, test the shutdown circuit by momentarily placing a 3900 ohm resistor across R448. The receiver should go into shutdown losing sound and raster. To return the receiver to normal operation, unplug the power cord for at least 5 seconds.

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.

Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein.

©1996 by Howard W. Sams & Company
A Bell Atlantic Company
2647 Waterfront Parkway East Drive, Suite 300
Indianapolis, IN 46214-2012

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



96PF02933



3600

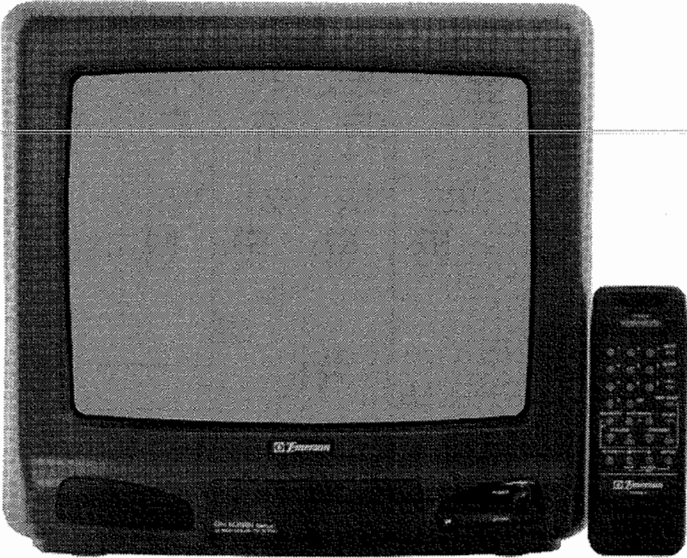
PHOTOFACT® Technical Service Data

SET 3600

MODEL TC1351 (SUFFIX B)

INDEX	
GridTrace Location	
Main Board	1
High Voltage Shutdown Test	1
IC Functions	1
Important Parts Information	3
Parts List	3, 4
Placement Chart	1
Safety Precautions	1
Schematics	
Power Supply	2
Remote Transmitter	3
System Control	2
Television	2
Tuner	1
Schematic Notes	2
Test Equipment	3
Tuner Information	3

EMERSON
Model TC1351 (Suffix B)



Essential coverage
for servicing a television receiver...

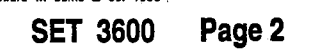
- Schematics
- Component locations
- Parts list

EMERSON

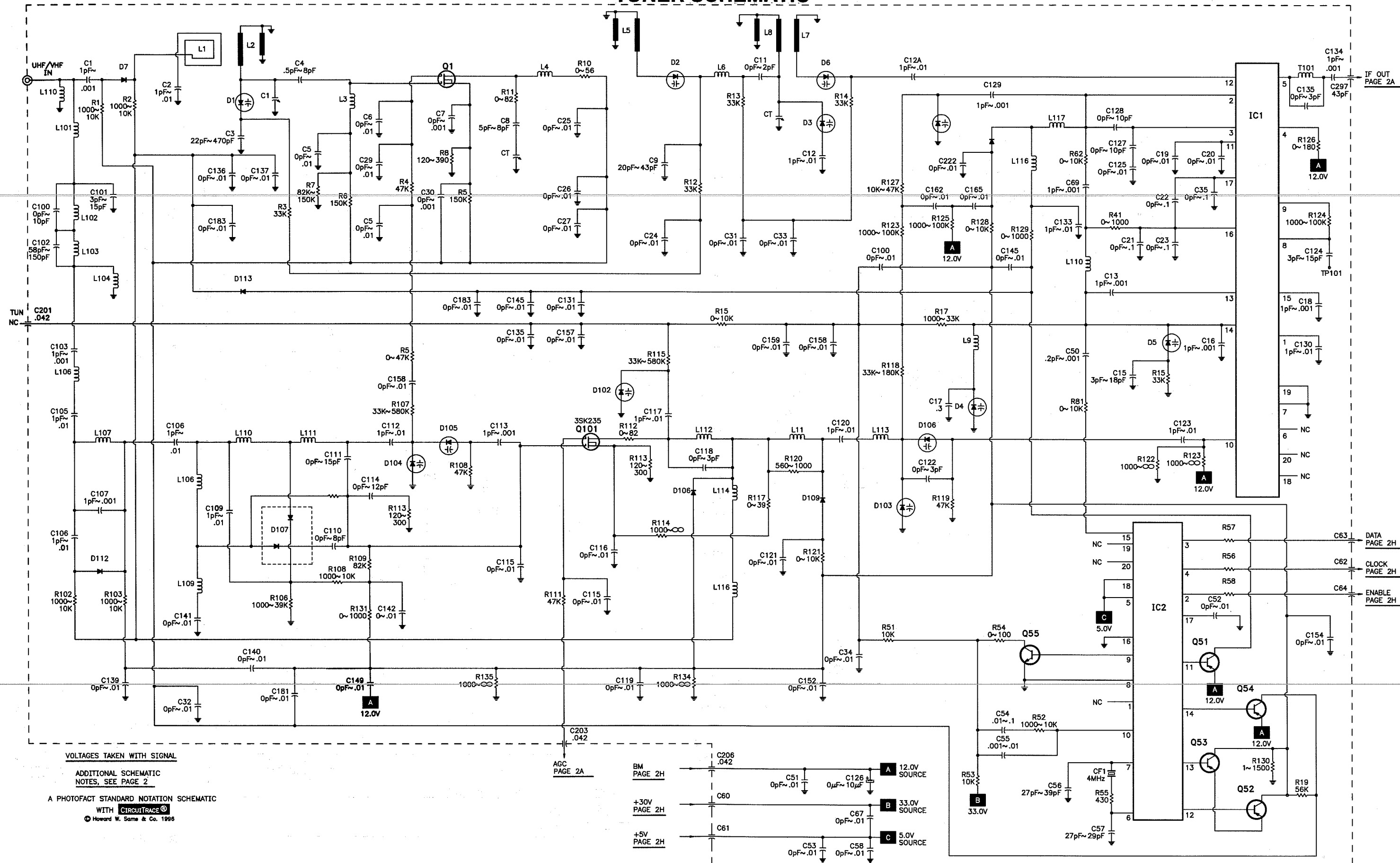
For Supplier Address,
See PHOTOFACT Annual Index


HOWARD W. SAMS & COMPANY
JANUARY 1996 SET 3600

3600

MODEL TC1351 (SUF-FIX B)

TUNER SCHEMATIC



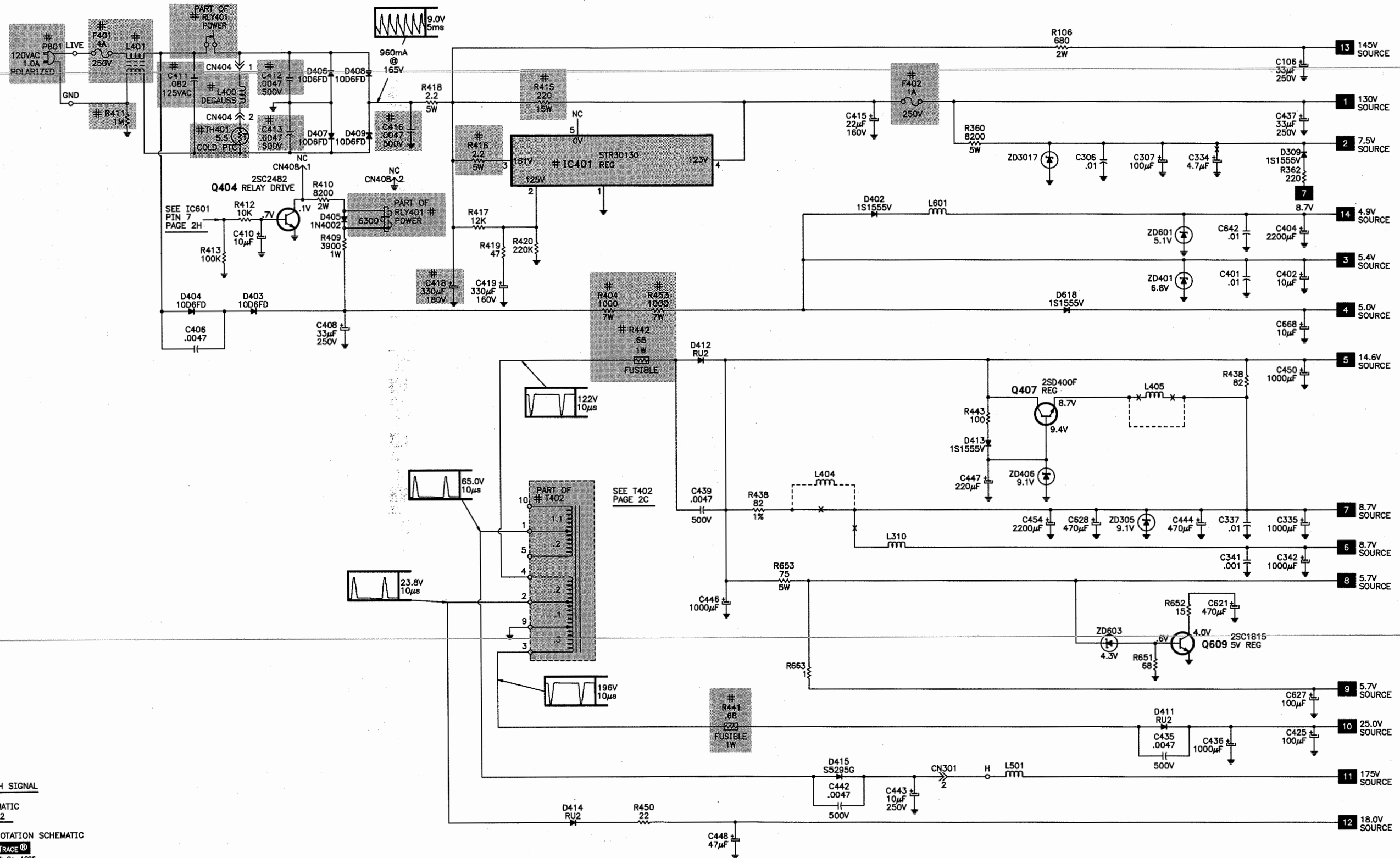
EMERSON

MODEL TC1351 (SUFFIX B)

G

H

POWER SUPPLY SCHEMATIC

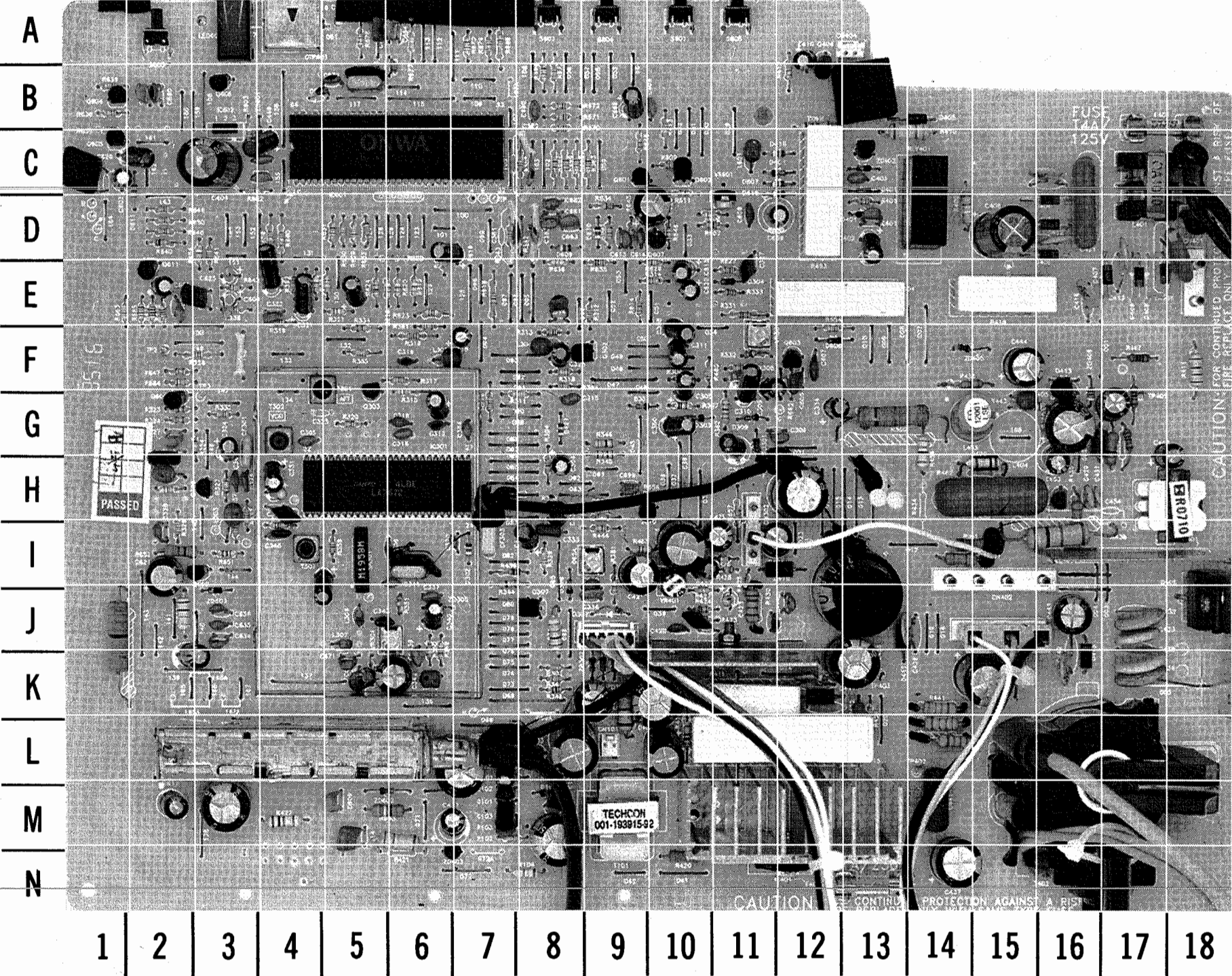


VOLTAGES TAKEN WITH SIGNAL

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**
© Howard W. Sams & Co. 1996

MAIN BOARD



MAIN BOARD, GRIDTRACE LOCATION GUIDE													
C101	L-7	C417	M-6	C638	B-6	IC602	B-3	R326	H-2	R441	K-14	R663	J-2
C102	M-7	C418	J-13	C639	C-4	L302	H-2	R327	H-3	R442	J-1	R664	F-2
C103	M-7	C419	K-10	C642	C-4	L303	H-3	R328	F-3	R443	G-15	R665	C-8
C104	M-8	C420	J-10	C660	B-8	L304	F-8	R329	I-2	R444	I-9	R666	C-8
C105	M-8	C421	I-9	C661	D-8	L305	F-7	R330	G-3	R445	H-9	R667	C-8
C106	L-8	C422	J-10	C662	D-8	L306	J-5	R331	E-11	R446	G-17	R668	B-8
C304	H-8	C423	J-11	C663	D-8	L307	J-5	R332	F-11	R447	G-17	R669	A-7
C305	F-10	C424	I-12	C664	A-6	L310	K-6	R333	E-11	R448	G-17	R670	B-8
C306	G-12	C425	I-11	C668	B-9	L401	C-17	R334	F-5	R450	G-17	R671	B-8
C307	G-11	C426	J-11	C669	D-12	L403	G-15	R336	E-3	R451	L-13	R672	B-8
C308	F-10	C427	I-10	C671	K-5	L405	G-15	R337	H-3	R452	L-13	R673	B-8
C309	F-12	C428	I-10	C672	B-5	L601	C-11	R338	H-8	R453	C-12	R674	A-7
C310	F-11	C429	H-16	C673	B-5	LED601	A-3	R339	I-8	R454	G-14	R675	A-7
C311	F-10	C430	H-15	C680	A-2	OPT601	A-4	R342	D-8	R456	I-7	R676	A-5
C312	G-6	C431	H-16	C681	E-2	Q101	M-7	R343	D-8	R460	F-10	R677	A-6
C313	G-6	C432	J-17	C682	E-2	Q102	M-8	R344	J-7	R461	H-7	R678	E-2
C314	E-8	C433	J-17	C699	H-9	Q103	L-8	R345	H-9	R462	H-15	R679	E-2
C315	G-8	C434	K-17	CF301	G-3	Q302	F-9	R346	G-9	R463	I-9	R681	D-9
C316	G-6	C435	K-12	CF302	H-2	Q303	G-5	R347	K-8	R603	C-3	R682	C-3
C317	E-11	C436	K-13	CF303	I-7	Q305	H-3	R348	K-8	R607	D-11	R683	E-1
C318	G-6	C437	N-14	CN101	L-9	Q307	J-8	R349	K-6	R608	D-11	R684	D-3
C319	F-6	C438	K-17	CN301	J-9	Q401	C-13	R350	K-6	R609	C-10	R685	E-2
C320	I-7	C439	J-14	CN302	H-11	Q404	B-14	R351	J-6	R610	C-9	RLY401	C-14
C321	E-4	C440	K-15	CN401	E-18	Q405	H-16	R353	K-5	R611	C-10	S601	A-10
C322	E-4	C441	M-14	CN402	I-14	Q406	J-18	R354	G-3	R614	E-9	S602	A-8
C323	F-8	C442	K-16	CN403	J-15	Q407	F-16	R357	H-3	R616	E-7	S603	A-2
C324	G-3	C443	J-16	CN404	A-12	Q601	C-9	R358	I-5	R617	E-4	S604	A-9
C327	G-2	C444	F-15	D101	M-8	Q602	C-10	R359	I-4	R618	E-5	S605	A-11
C328	I-2	C445	I-8	D301	G-9	Q603	F-12	R360	G-13	R619	E-6	SA301	I-5
C331	H-4	C446	L-7	D302	I-7	Q604	B-1	R361	J-8	R620	E-6	T101	M-9
C332	H-8	C447	G-17	D303	G-10	Q605	C-1	R362	G-11	R622	E-6	T301	G-5
C333	I-8	C448	H-18	D304	E-11	Q606	G-2	R363	C-9	R623	E-6	T302	G-4
C334	G-12	C449	C-4	D307	J-9	Q607	D-10	R365	F-5	R624	E-5	T303	I-4
C335	K-9	C450	G-16	D308	J-8	Q608	B-3	R381	J-9	R625	E-4	T401	H-18
C336	J-9	C452	J-12	D309	G-11	Q609	I-3	R391	F-6	R626	E-10	T402	M-17
C337	J-6	C453	H-16	D401	C-13	Q610	H-9	R392	E-4	R627	E-11	TH401	D-18
C338	I-6	C454	H-12	D402	C-12	Q611	E-2	R393	E-6	R628	E-6	VR301	F-11
C339	K-6	C602	C-1	D403	D-16	R001	I-15	R394	F-8	R629	D-5	VR302	I-9
C340	J-6	C603	C-1	D404	D-16	R101	L-7	R401	D-13	R630	D-5	VR304	J-6
C341	I-6	C605	F-12	D405	B-14	R102	M-7	R402	B-12	R631	D-5	VR401	J-10
C342	K-6	C606	D-11	D406	D-16	R103	M-7	R404	E-12	R632	D-5	VR601	D-11
C343	J-5	C607	F-12	D407	E-17	R104	N-8	R409	D-14	R634	D-9	X301	I-6
C345	H-3	C608	E-3	D408	E-17	R105	L-8	R410	C-14	R635	E-9	X601	B-5
C346	I-4	C609	M-5	D409	E-17	R106	K-9	R411	F-18	R636	E-8	ZD301	G-11
C347	H-4	C610	M-3	D410	I-12	R303	K-8	R412	B-12	R637	B-1	ZD302	K-9
C348	H-4	C611	H-5	D411	K-12	R304	H-8	R413	C-10	R638	B-1	ZD303	K-9
C364	G-7	C612	M-2	D412	J-13	R305	C-8	R415	L-12	R639	B-1	ZD304	K-9
C380	G-10	C613	D-9	D413	E-16	R306	F-10	R416	K-11	R640	D-2	ZD305	J-6
C381	D-8	C614	D-9	D414	G-16	R307	G-10	R417	L-12	R641	D-3	ZD401	D-13
C382	C-8	C615	E-1	D415	K-16	R308	F-11	R418	E-15	R642	E-3	ZD402	C-13
C383	D-8	C616	E-4	D416	C-12	R309	F-11	R419	L-10	R643	M-5	ZD403	N-6
C385	G-4	C617	E-5	D420	H-15	R310	G-7	R420	N-10	R644	D-2	ZD405	F-14
C386	J-4	C618	F-7	D421	G-8	R311	G-8	R421	M-6	R645	D-9	ZD406	G-16
C401	D-13	C619	D-6	D607	C-12	R312	E-9	R422	M-4	R646	D-10	ZD601	C-3
C402	D-13	C620	E-10	D608	F-12	R313	F-8	R423	J-10	R647	F-2	ZD602	M-5
C403	C-13	C621	I-2	D609	D-8	R314	E-10	R424	J-10	R648	D-2	ZD603	J-3
C404	C-3	C625	E-3	D610	D-9	R315	G-6	R425	I-11	R650	D-2		
C406	C-16	C626	C-2	D611	C-2	R316	F-6	R426	I-11	R651	I-3		
C408	D-15	C627	K-3	D618	C-12	R317	F-6	R427	J-10	R652	I-2		
C409	B-10	C628	D-10	D699*	C-6	R318	F-8	R428	I-11	R653	J-2		
C410	A-12	C630	J-9	F401	B-17	R319	E-4	R430	J-11	R654	F-12		
C411	D-16	C633	B-2	F402	N-13	R320	G-5	R432	I-14	R656	H-9		
C412	D-16	C634	J-3	IC301	H-4	R321	E-5	R435	H-16	R657	H-11		
C413	D-17	C635	J-3	IC401	N-11	R322	G-2	R436	I-16	R659	D-4		
C414	M-5	C636	J-3	IC402	K-10	R323	G-2	R438	F-14	R660	D-4		
C415	L-10	C637	A-5	IC601	C-4	R324	G-2	R439	L-14	R662	F-12		

* Located on
bottom of board

* Located on bottom of board

TAKEN WITH CHROMA BAR SWEEP GENERATOR

KEN WITH BAR SWEEP GENERATOR

SEE T402 PIN 2 PAGE 2C

G O R517 1S (2.2) 1W PART OF SOCKET SPARK GAP PART OF CRT SOCKET SPARK GAP PART OF CRT SOCKET SPARK GAP PART OF CRT SOCKET SPARK GAP FOCUS RANGE 2.5kv TO 4.5KV C504 .0015 2kV SG X SG A I CN403 6 CN403 6

VOLTAGES TAKEN WITH SIGNAL
ADDITIONAL SCHEMATIC NOTES, SEE PAGE 2
A PHOTOFACT STANDARD NOTATION SCHEMATIC
WITH CIRCUITACE®
© Howard W. Sams & Co. 1998

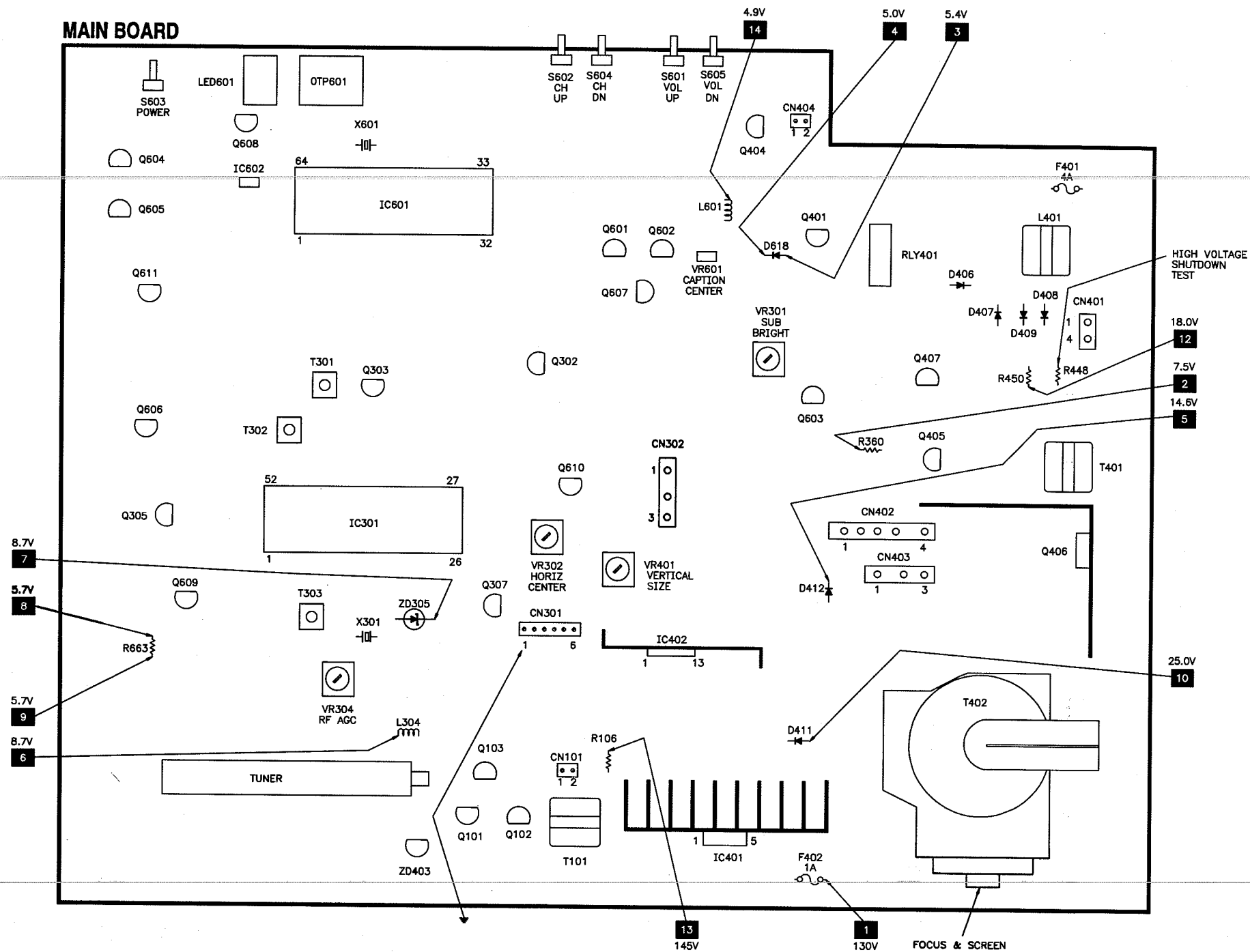
VOLTAGES TAKEN WITH SIGNAL

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE®**
© Howard W. Sams & Co. 1998

PLACEMENT CHART

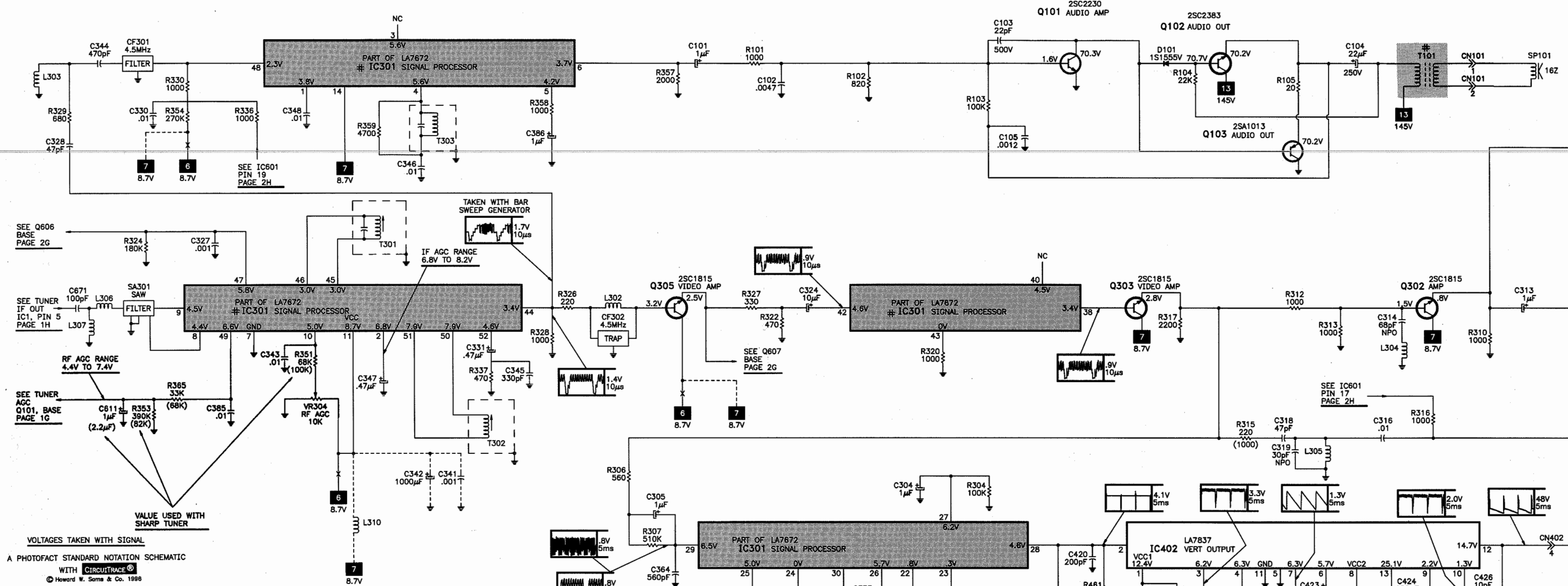
MAIN BOARD



A

TELEVISION SCHEMATIC

B

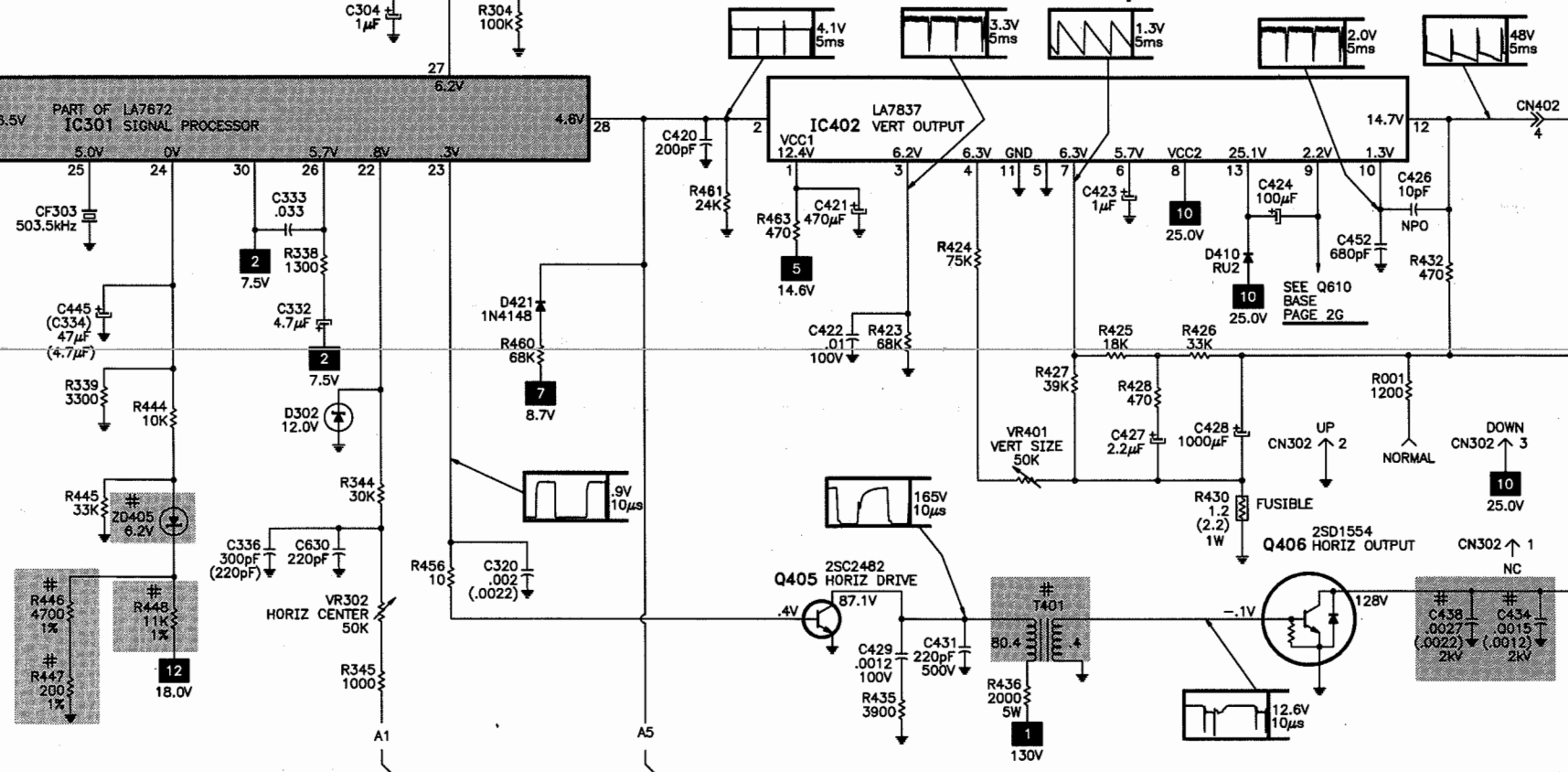


VOLTAGES TAKEN WITH SIGNAL
A PHOTOCOATED STANDARD NOTATION SCHEMATIC
WITH CIRCUITTRACE®
© Howard W. Sams & Co. 1988

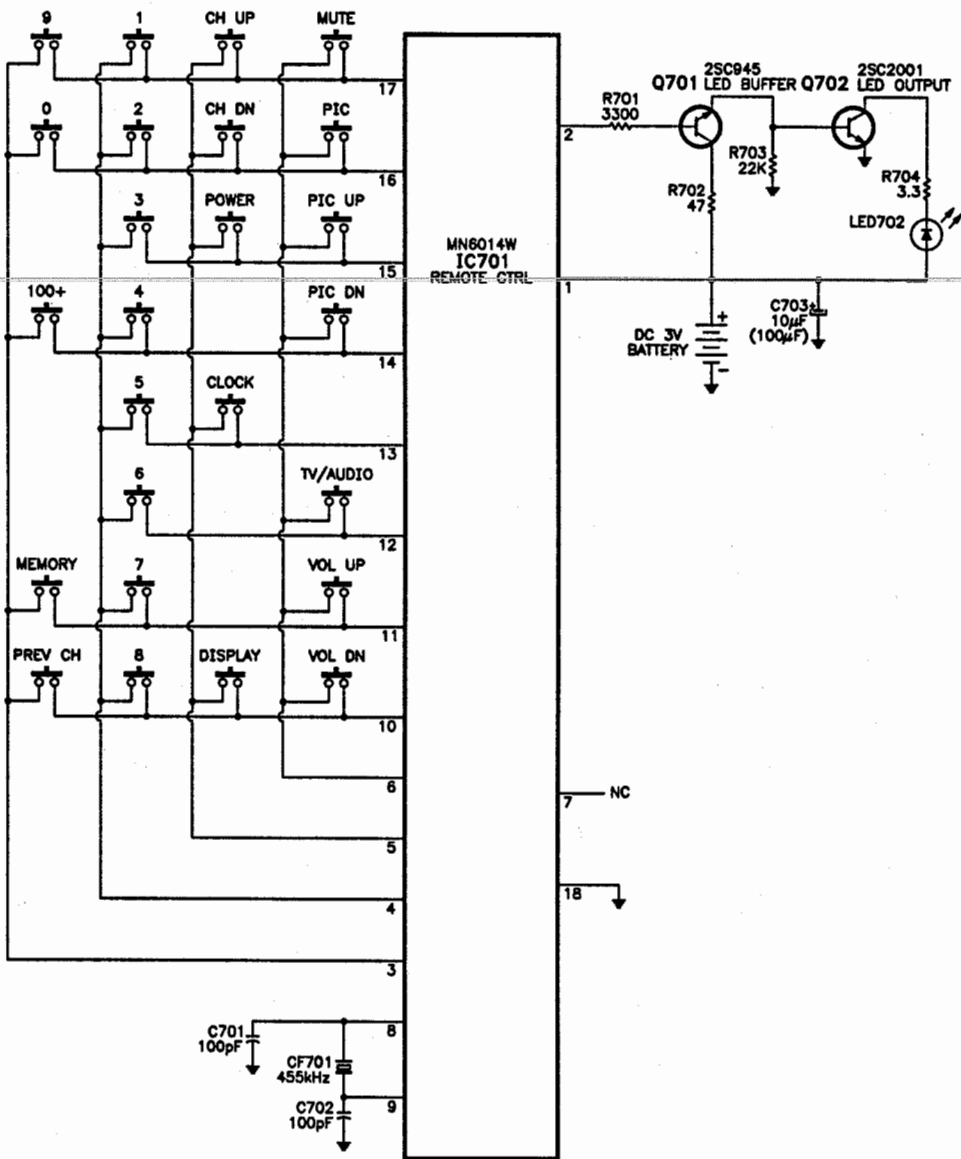
SCHEMATIC NOTES

- # 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 CIRCUITTRACE®: Voltage source tie point.
- A Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless noted otherwise.
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.



REMOTE TRANSMITTER SCHEMATIC



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 2

A PHOTOFAC STANDARD NOTATION SCHEMATIC

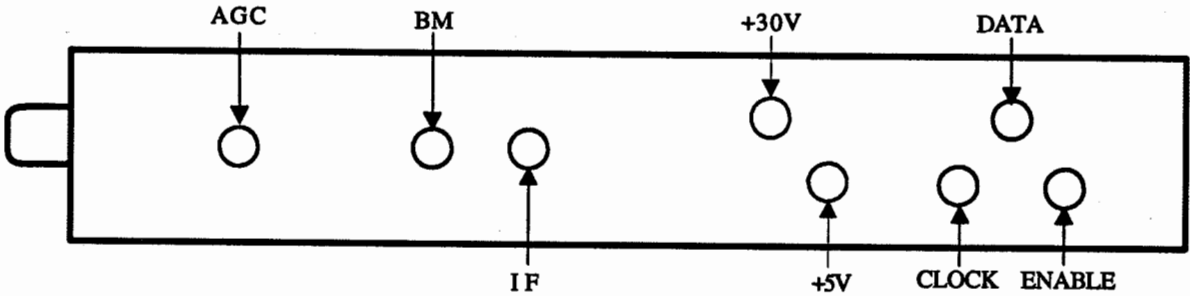
© Howard W. Sams & Co. 1998

TUNER INFORMATION

TUNER VOLTAGE CHART			
Pin	VHF Low Band	VHF High Band	UHF Band
AGC	6.3V	5.0V	5.0V
BM	12.0V	12.0V	12.0V
IF Out	0V	0V	0V
+30V	33.0V	33.0V	33.0V
+5V	5.0V	5.0V	5.0V
CLOCK	.07V	.07V	.07V
DATA	.07V	.07V	.04V
ENABLE	.1V	.1V	.04V

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.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR57
Generators		Capacitance Analyzer	LC101, LC102
RGB	CM2000	CRT Analyzer	CR70
Multiburst Signal	VG91	AC Leakage Tester	PR57
Color Bar	VG91	Inductance Analyzer	LC101, LC102
TV Stereo	VG91	Flyback Yoke Tester	TVA92
Digital VOM	SC3100	TV Stereo Power Monitor	SR68, PA81
Frequency Meter	SC3100	Field Strength Meter	SL750
Hi-Voltage Probe	HP200	Transistor Tester	TF46
Accessory Probes	TP212	Video Analyzer	VG91, TVA92

PARTS LIST continued

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
ZD401	-	130-410068-01	-	-	-
ZD402	-	130-410043-11	-	-	-
ZD403	KA33V	130-410033-00	NTE615P	ECG615A	SK9976
# ZD405	-	130-410062-11	-	-	-
ZD406	-	130-411091-00	-	-	-
ZD601	-	130-410051-01	-	-	-
ZD602	-	130-410012-00	-	-	-
ZD603	-	130-410043-11	-	-	-
Remote Transmitter					
IC701	MN6014W	033-306014-11	-	-	-
LED701	-	130-600101	-	-	-
Q701	2SC945(L)P	031-230945-00	NTE85	ECG85	SK3124A
Q702	2SC2001K/L	031-232001-00	NTE85	ECG85	SK3849
# For SAFETY use only equivalent replacement part.					

CONTROLS & RESISTORS			
Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R001	1200 5% 1/2W Nonflammable	013-122205-22	HW212
R360	8200 5% 5W	013-822605-75	5W282
# R391, 94	12K 5% 1/8W	013-123005-12H	-
# R404	1000 5% 7W Wirewound	013-102805-54	-
# R411	1M 5% 1/2W	013-105205-12	HW510
# R415	220 5% 15W Wirewound	013-221905-54	-
# R416	2.2 5% 5W Wirewound	013-229605-54	5W2D2
R417	12K 5% 1/2W Nonflammable	013-123205-22	HW312
R418	2.2 5% 5W Wirewound	013-229605-54	5W2D2
R420	220K 5% 1/2W Nonflammable	013-224205-22	HW422
R430	1.2 5% 1W Fusible	013-129305-82	F1W1D2
R432	470 5% 1/2W Nonflammable	013-471205-22	HW147
R435	3900 5% 1/2W Nonflammable	013-392205-22	HW239
R436	2000 5% 5W	013-202605-75	-
R438	82 1% 1/2W	013-820205-72	-
R439	.68 1W Fusible	013-688310-82	-
# R441, 42	.68 1W Fusible	013-688310-82	-
# R446	4700 1% 1/4W	013-472101-72	-
# R447	200 1% 1/4W	013-201101-72	-
# R448	11K 1% 1/4W	013-113101-72	-
R450	.22 5% 1/2W Nonflammable	013-220205-22	HWD22
R452	220K 5% 1/2W Nonflammable	013-224205-22	HW422
# R453	1000 5% 7W Wirewound	013-102805-54	-
R643, 52	15 5% 1/2W Nonflammable	013-150205-22	HW015
R653	75 5% 5W	013-750605-75	-
# TH401	5.5 Cold PTC	014-210050-03	-
VR301	5000 Sub Bright	112-502541-06	-
VR302	50K Horizontal Centering	112-203541-06	-
VR304	10K RF AGC	112-103541-06	-
VR401	50K Vertical Size	112-503541-06	-
VR501	300 Blue Drive	012-301330-06	-
VR502	5000 Blue Bias	012-502330-06	-
VR503	300 Green Drive	012-301330-06	-
VR504	5000 Green Bias	012-301330-06	-
VR505	5000 Red Bias	012-502330-06	-
VR601	2000 Caption Center	012-202330-06	-
# For SAFETY use only equivalent replacement part.			

PARTS LIST

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)
- PTS Electronics Corporation (PTS)
 - Sencore, Inc.
 - Thomson Consumer Electronics, Inc. (SK, TCE)



Created with pride by the
employees of Howard W. Sams
& Company.

J. Barker, N. Beck, B. Bryant,
B. Buchanan, T. Clensy,
D. Cobb, G. Farrell, B. Fink,
M. Herkless, J. Kocha,
F. Malek, B. Medaris,
R. Raus, B. Skinner

CABINET PARTS

Item	Mfr. Part No.
Cabinet Bottom	202-961504-02A
Cabinet Front	200-971501-02A
Panel Door	219-971501-02S
Power Knob	292-971511-01S
Sensor Lens	263-971501-02S
Remote Transmitter	
Battery Door	210-390401-01
Cabinet Bottom	203-390202-01
Cabinet Top	201-390202-01
Front Lens	263-390201-01

SEMICONDUCTORS

(Select the replacement that gives the best results.)

Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D101	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D301	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D302	1N4148	130-134148-01	NTE519	ECG519	SK3100
D303	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D304	1S1555	-	NTE177	ECG177	SK9091
	1N4148	130-134148-01	NTE519	ECG519	SK3100
D307	MA700A	130-150700-00	NTE584	ECG584	-
D308, 09	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D401, 02	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D403, 04	10D6FD	130-310106-00	-	-	-
D405	1N4002	130-314002-00	NTE116	ECG116	SK3311
D406 Thru					
D409	10D6FD	130-310106-00	-	-	-
D410, 11, 12	RU2	130-310012-00	NTE552	ECG552	SK9000
D413	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D414	RU2	130-310012-00	NTE552	ECG552	SK9000
D415	S5295G	130-315295-00	NTE552	ECG552	SK9000
	S5295J	130-315295-00	NTE552	ECG552	SK9000
D416	1N4148	130-134148-01	NTE519	ECG519	SK3100
D420	RU2	130-310012-00	NTE552	ECG552	SK9000
D421	1N4148	130-134148-01	NTE519	ECG519	SK3100
D607 Thru					
D611	1N4148	130-134148-01	NTE519	ECG519	SK3100
D618	1S1555V	130-131555-00	NTE177	ECG177	SK9091
D699	-	-	-	-	-
# IC301	LA7672	033-107672-16	-	-	-
# IC401	STR30130	033-530130-38	NTE1777	ECG1777	SK9870
IC402	LA7837	033-207837-16	NTE7104	ECG7104	-
IC601	MN1873237	033-018732-11B	-	-	-
IC602	MN1280-L	033-501280-11	NTE15044	-	SK9738
LED601	-	030-512110-00	-	-	-
Q101	2SC2230Y	031-232230-00V	NTE399	ECG399	SK9352
Q102	2SC2383-O	031-232383-15	NTE31	ECG31	SK3866A
Q103	2SA1013-O	031-211013-15V	NTE32	ECG32	SK3867A
Q302, 03, 05	2SC1815-Y	031-231815-26V	NTE85	ECG85	SK3124A
Q307	2SA562TM	031-210562-00V	NTE290A	ECG290A	SK3114A
Q401	2SA1015Y	031-211015-00V	NTE290A	ECG290A	SK9132
Q404, 05	2SC2482	031-232482-00V	NTE399	ECG399	SK9352
Q406	2SD1554	031-241554-00	NTE2302	ECG2302	SK9422
Q407	2SD400F	031-240400-06V	NTE382	ECG382	SK3849
Q501, 02, 03	2SC2482	031-232482-00	NTE399	ECG399	SK9352
Q601	2SC1815-Y	031-231815-26V	NTE85	ECG85	SK3124A
Q602	2SA1015Y	031-211015-00V	NTE290A	ECG290A	SK9132
Q603 Thru					
Q606	2SC1815-Y	031-231815-26V	NTE85	ECG85	SK3124A
Q607	2SA1015Y	031-211015-00V	NTE290A	ECG290A	SK9132
Q608 Thru					
Q611	2SC1815-Y	031-231815-26V	NTE85	ECG85	SK3124A
ZD301	-	130-410075-00	-	-	-
ZD302, 03, 04	-	130-410012-00	-	-	-
ZD305	-	130-411091-00	-	-	-

For SAFETY use only equivalent replacement part.

EMERSON

MODEL TC1351 (SUFFIX B)

PARTS LIST continued

MISCELLANEOUS			
Item No.	Description	Mfr. Part No.	Notes
CF301	Filter	007-304500-18	4.5MHz
CF302	Trap	007-104500-18	4.5MHz
CF303	Crystal	007-300503-16	503.5kHz
# F401	Fuse	082-423000-12	4Amp, 125VAC, Slow Blow
# F402	Fuse	082-211000-02	1Amp, 250VAC, Fast Acting
OPT601	Receiver	036-600900-00	Remote, MM009E
# P801	Line Cord	071-330100-00	AC, Polarized
# RLY401	Relay	006-210048-01	Power
S501	Switch	045-012410-06	Service
S601	Switch	046-100001-42	Volume Up
S602	Switch	046-100001-42	Channel Up
S603	Switch	046-100001-42	Power
S604	Switch	046-100001-42	Channel Down
S605	Switch	046-100001-42	Volume Down
SA301	Filter	007-745750-39	SAW
SP101	Speaker	066-962023-09	2" X 3 1/2", 16 Ohm, 2W
# V1	CRT	102-314000-23	37SX110Y22-DC03
X301	Crystal	037-357954-20	3.58MHz
X601	Crystal	037-120000-32	12.0MHz
	PC Board (1)	771-951501-02	CRT
	PC Board (1)	795-971501-05	Main
	Transmitter	790-390250-05	Remote
	Tuner (2)	-	Sharp
	Tuner (2)	-	Samsung
Remote Transmitter			
CF701	Resonator	007-300455-46	455kHz
	PC Board (1)	090-390206-01	Remote Transmitter
		790-390241-03	Remote Transmitter
# For SAFETY use only equivalent replacement part.			
(1) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.			
(2) Order by model number and description.			

CAPACITORS & ELECTROLYTICS		
Item No.	Rating	Mfr. Part No.
C314	68pF 5% NPO	123-680340-13V
C319	30pF NPO	123-300340-13V
C338	15pF NPO	123-150340-13V
C347	.47µF 35V Tantalum	124-474061-01
C381	68pF 5% NPO	123-680340-13
C382	30pF NPO	123-300340-13
C383	30pF NPO	123-300340-13
# C411	.082 20% 125VAC	026-823122-01
# C412, 13	.0047 500V	123-472580-42V
# C416	.0047 500V	123-472580-42V
# C418	330µF 180V	127-337187-01
C423	1µF 35V Tantalum	124-105061-01V
C426	10pF NPO	123-100340-13V
# C432	.0012 5% 2kV	123-122840-40
	.0022 5% 2kV	123-222870-40
# C433	.0022 5% 2kV	123-222870-40
	.0012 5% 2kV	123-122840-40
# C434	.0015 5% 2kV	-
	.0012 5% 2kV	123-122840-40
# C438	.0027 5% 2kV	-
	.0022 2kV	123-222870-40
C504	.0015 2kV	123-152840-40
C608	.47µF 35V Tantalum	124-474061-01
	.22µF 35V	-
C625	1µF 35V Tantalum	124-105061-01V
	.1µF 35V Tantalum	124-104061-01V
C672	40pF NPO	123-400340-13
	22pF NPO	123-220340-13
C673	22pF NPO	123-220340-13
	40pF NPO	123-400340-13
C680	68pF 5% NPO	123-680340-13V
# For SAFETY use only equivalent replacement part.		

COILS & TRANSFORMERS			
Item No.	Function/Rating		Mfr. Part No.
# DY	Yoke	Horiz 3.2mH Vert 25.9mH	-
L302, 03	15µH		105-150101-02V
L304	27µH		105-270101-02
L305	10µH		105-100101-02V
L306	1µH		105-109103-28H
L307	.56µH		105-568103-12
L310	68µH		105-680101-02V
# L400	Degaussing		108-250141-35
# L401	Line Filter		001-190017-95
L403	36µH		105-360101-09
L405	180µH		105-181101-02
L501	180µH		105-181101-02
L601	4.7µH		105-479101-02V
# T101	Audio Output		001-193915-92
T301	AFT		002-600000-02
T302	VCO		002-400000-02
T303	Sound IF		002-600087-03
# T401	Horizontal Drive		001-190010-96
# T402 (1)	Horizontal Output		101-114000-04
# For SAFETY use only equivalent replacement part.			
(1) Focus and screen controls are part of T402.			

EMERSON

MODEL TC1351 (SUFFIX B)