

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.

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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Page 1 SET 3904



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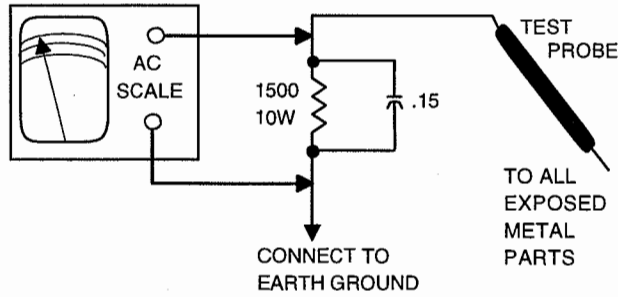
SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

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

Hot Leakage Current Check

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



HIGH VOLTAGE SHUTDOWN TEST

Connect a variable power supply through a blocking diode to the cathode of D552. Increase power supply voltage, the receiver should lose picture and sound when voltage reaches about 10.0V. If the receiver fails to lose picture and sound, the horizontal shutdown circuit needs repaired.

PHOTOFACT® Technical Service Data

SET 3904

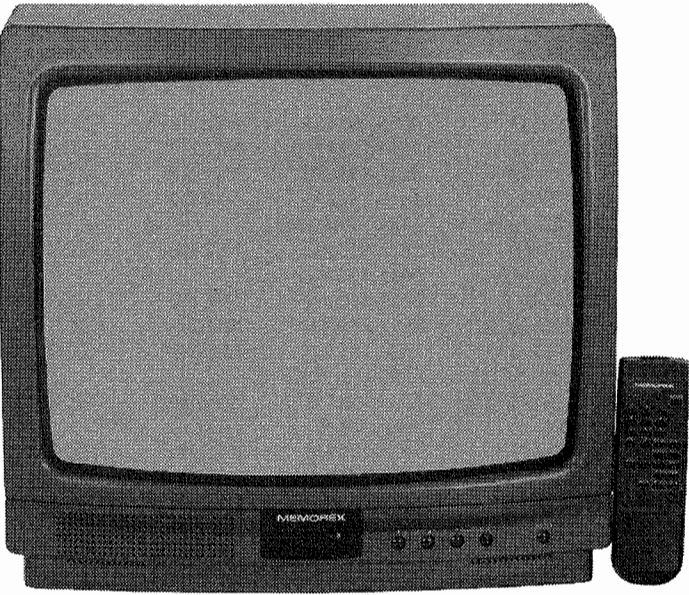
MODEL MT1191 SUFFIX A/B

MEMOREX

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MEMOREX  
Model MT1191 Suffix A/B



Essential coverage  
for servicing a television receiver...

- Schematics
- Component locations
- Parts list



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NOVEMBER 1997 SET 3904

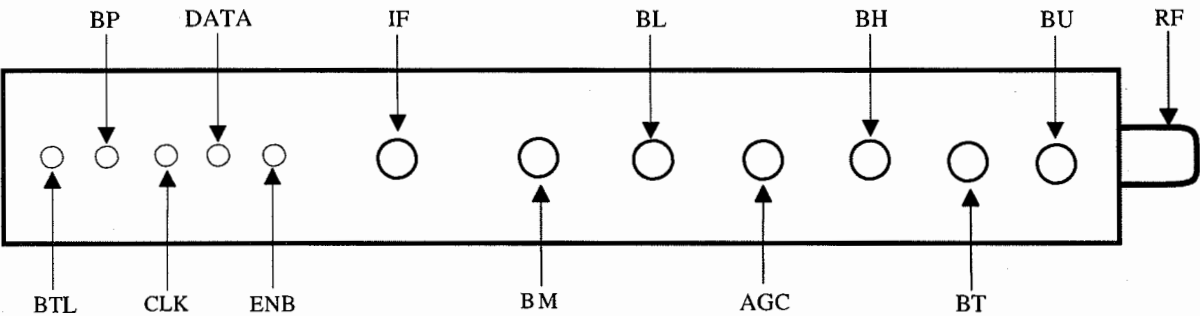
For Supplier Address,  
See PHOTOFACT Annual Index

TUNER INFORMATION

TUNER VOLTAGE CHART			
Pin	VHF Low Band	VHF High Band	UHF Band
BU	0V	0V	0V
BT	1.2V	4.1V	5.6V
BH	0V	0V	0V
AGC	4.4V	4.4V	4.4V
BL	0V	0V	0V
BM	8.8V	8.8V	8.8V
IF	0V	0V	0V
ENB	0V	0V	0V
DATA	0V	0V	0V
CLK	0V	0V	0V
BP	5.0V	5.0V	5.0V
BTL	32.5V	32.5V	32.5V

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



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

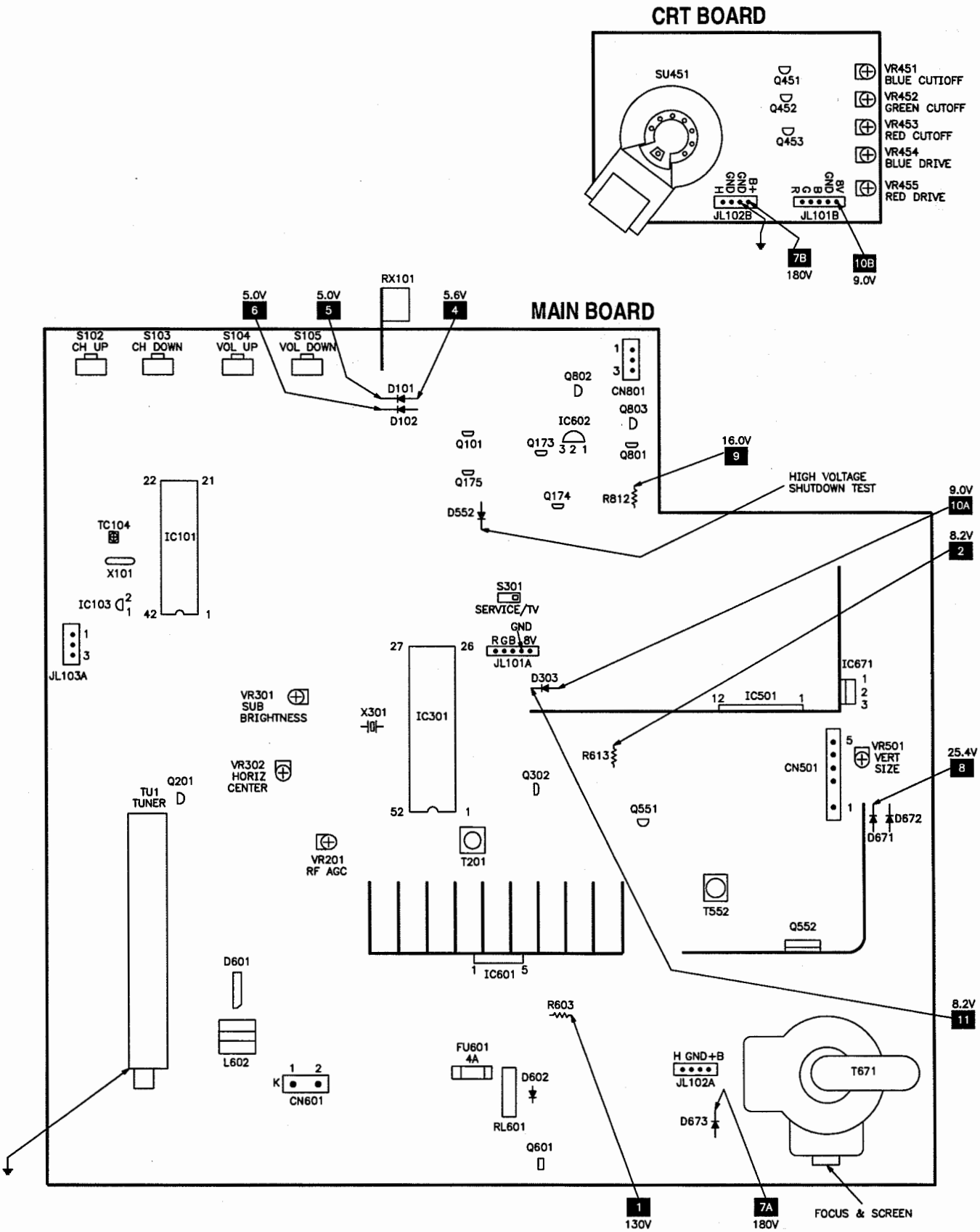
△ Taken from common tie point

3 Schematic CIRCUITRACE® Voltage source tie point.

A— Cabling: Heavy lines reduce use of multiple lines.

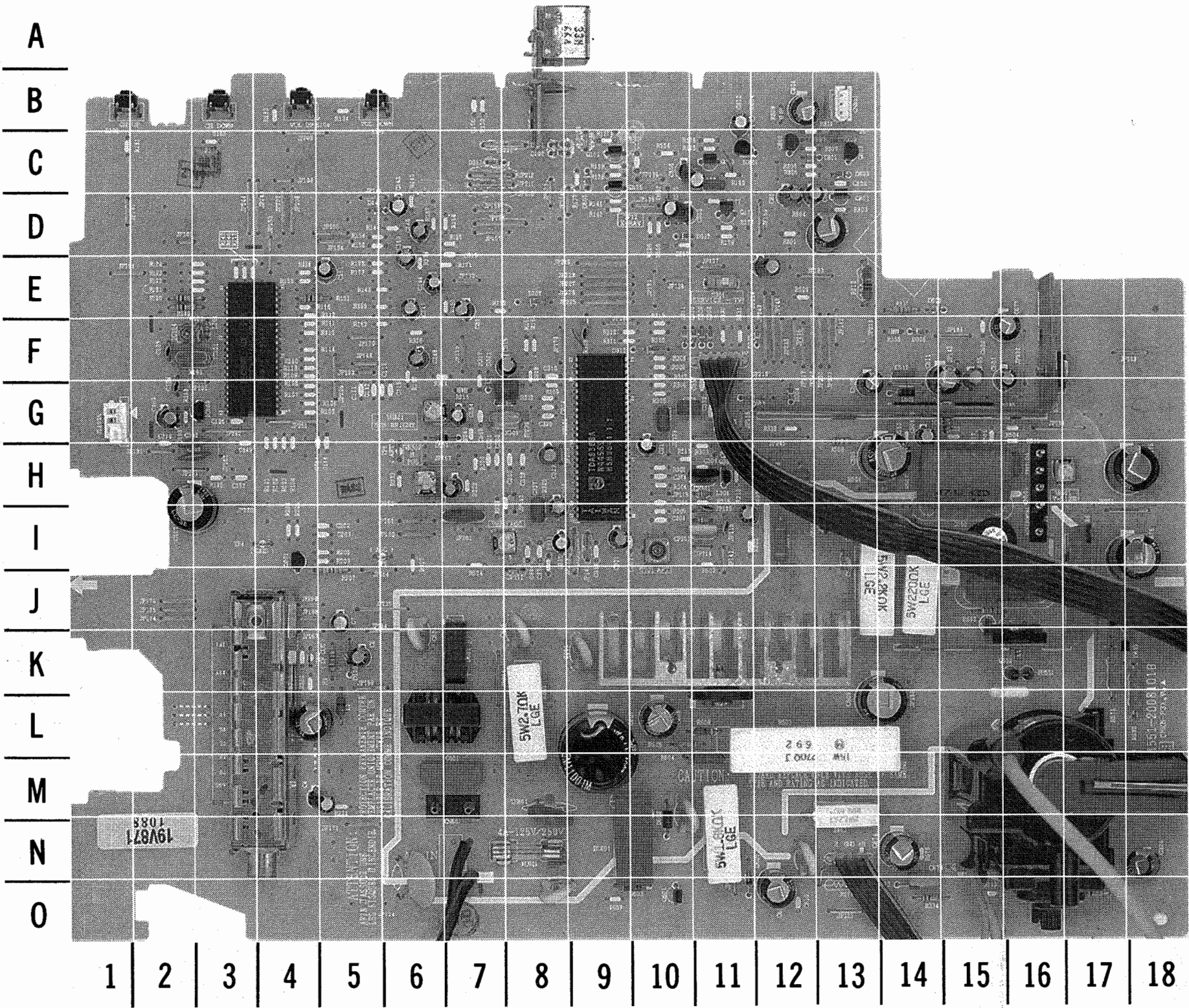
Waveforms and voltages are taken from ground, unless noted otherwise.  
Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions.  
Supply voltages maintained as seen at input.  
Voltages measured with digital 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.

PLACEMENT CHART





MAIN BOARD - TOP VIEW

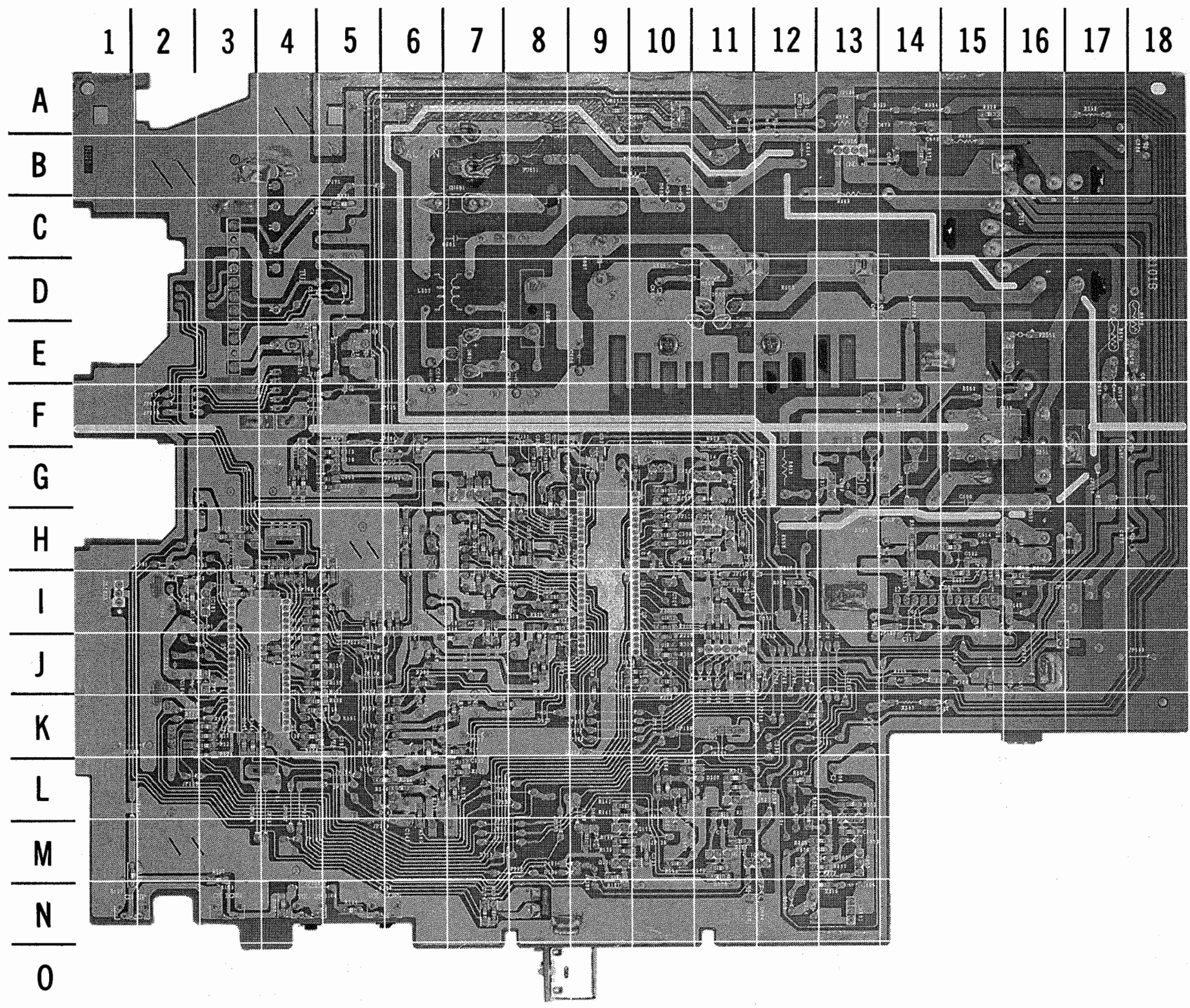


MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

C4	M-5	C335	I-8	C673	O-14	D501	G-14	Q173	C-11	R605	L-10
C6	K-5	C336	E-12	C674	N-14	D505	C-9	Q174	D-11	R606	L-11
C7	J-5	C501	F-16	C675	I-18	D551	G-7	Q175	C-6	R610	N-11
C10	O-6	C505	F-15	C676	H-18	D552	D-10	Q201	I-4	R612	I-12
C101	H-3	C506	G-13	C677	F-16	D561	I-14	Q302	H-11	R613	H-12
C102	H-3	C507	H-16	C801	D-12	D601	K-7	Q551	I-13	R671	K-17
C103	G-2	C508	G-14	C802	D-13	D602	N-10	Q552	K-16	R672	K-18
C104	G-2	C509	H-14	C804	B-12	D603	O-11	Q601	O-10	R673	N-15
C105	F-2	C511	F-15	C805	C-13	D604	B-12	Q801	D-13	R674	O-13
C106	F-3	C512	F-14	C806	D-13	D605	O-11	Q802	C-12	R808	C-13
C107	I-2	C513	H-15	C807	I-11	D606	E-14	Q803	C-13	R809	B-12
C125	L-4	C514	H-15	CF201	I-11	D671	J-17	R1	K-5	R812	E-13
C143	D-6	C554	G-7	CF301	H-11	D672	K-18	R119	E-2	RL601	N-9
C144	E-6	C555	C-11	CN501	I-16	D673	O-14	R120	E-2	RX101	A-8
C146	D-6	C556	D-10	CN601	M-6	D801	C-12	R151	E-4	S102	B-1
C147	E-6	C557	I-13	CN801	B-13	D803	C-13	R207	J-5	S103	B-3
C148	F-6	C558	I-13	D101	C-8	FB551	K-16	R315	G-7	S104	B-4
C150	E-6	C559	J-16	D102	C-8	FU601	N-8	R332	O-17	S105	B-5
C151	E-5	C560	H-15	D103	G-2	IC101	G-4	R333	O-13	S301	E-10
C177	C-11	C561	I-16	D120	K-5	IC103	G-3	R334	O-14	SF201	I-7
C206	I-8	C601	M-7	D141	D-6	IC301	I-9	R335	F-14	T201	I-10
C298	I-11	C602	N-11	D301	G-7	IC501	G-15	R337	E-14	T552	I-13
C299	I-11	C604	K-6	D302	D-10	IC601	L-11	R463	N-13	T671	M-17
C301	I-9	C605	K-8	D303	G-12	IC602	C-11	R505	H-16	TC104	F-2
C306	G-11	C606	K-9	D304	G-12	IC671	F-17	R506	H-14	TH601	M-8
C307	G-10	C607	L-9	D305	F-12	JL101A	F-11	R508	H-13	TU1	L-4
C311	E-7	C608	L-10	D306	F-14	JL102A	N-13	R558	H-12	VR201	I-8
C315	F-8	C609	L-14	D307	C-7	JL103A	G-1	R561	J-14	VR301	G-6
C317	H-10	C611	O-12	D308	F-11	L1	L-5	R562	J-15	VR302	H-6
C319	G-8	C612	B-11	D309	F-11	L101	F-3	R563	J-14	VR501	H-17
C322	H-7	C616	N-12	D310	F-11	L299	I-11	R564	J-15	X101	F-3
C323	H-8	C617	O-8	D311	F-10	L301	H-11	R602	L-8	X301	G-8
C326	N-18	C671	J-17	D312	F-10	L552	I-15	R603	L-12		
C327	I-8	C672	J-18	D313	C-7	L602	L-6	R604	M-11		



MAIN BOARD - BOTTOM VIEW



MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE											
C110	I-5	C324	G-8	R117	K-4	R155	L-7	R301	I-11	R338	I-12
C111	I-5	C328	H-8	R118	I-2	R156	L-6	R302	H-10	R501	I-15
C112	I-5	C330	H-7	R121	K-3	R157	L-6	R303	H-11	R502	I-15
C113	I-6	C331	I-11	R122	K-3	R158	L-7	R304	H-10	R503	G-11
C114	I-5	C332	I-11	R123	K-3	R159	K-6	R305	I-10	R504	I-16
C115	I-6	C333	I-11	R124	K-3	R162	J-6	R306	I-10	R507	H-14
C116	J-4	C334	G-8	R125	H-3	R163	J-8	R307	J-10	R509	K-12
C117	J-4	C337	G-9	R126	L-10	R164	J-8	R308	J-10	R510	I-14
C126	I-3	C502	J-15	R127	M-9	R165	I-8	R309	J-10	R511	H-15
C127	M-10	C553	I-7	R128	M-9	R171	K-7	R310	J-10	R512	H-15
C149	H-4	C610	A-12	R129	M-9	R172	K-6	R311	J-10	R515	I-16
C152	H-3	C803	M-13	R130	B-7	R173	K-6	R312	J-10	R554	M-10
C176	B-7	Q101	C-9	R131	M-1	R174	K-6	R313	J-10	R555	L-10
C201	E-4	R101	H-4	R132	M-3	R175	M-11	R314	J-7	R556	L-10
C202	G-5	R102	H-4	R133	N-4	R176	M-11	R316	H-11	R557	L-11
C203	G-5	R103	H-4	R134	N-5	R177	L-11	R317	J-7	R560	I-7
C204	H-10	R104	H-4	R137	M-9	R178	L-11	R318	J-8	R607	A-9
C205	H-8	R105	I-4	R138	K-4	R179	L-11	R319	I-8	R675	B-14
C208	G-10	R106	I-4	R139	K-4	R180	M-11	R320	H-7	R801	L-12
C302	G-10	R107	I-4	R140	L-9	R202	E-4	R322	H-7	R802	G-11
C304	H-10	R108	I-4	R141	L-9	R203	G-5	R323	H-6	R803	L-13
C308	H-11	R109	J-4	R142	K-3	R204	G-4	R324	G-7	R804	M-12
C310	J-8	R110	J-4	R144	L-6	R205	G-4	R325	G-8	R805	M-13
C313	L-7	R111	J-4	R145	L-6	R206	G-5	R326	J-6	R806	M-13
C314	I-8	R112	K-4	R146	K-3	R208	H-8	R327	G-6	R807	M-13
C316	I-2	R113	J-4	R148	K-6	R209	G-10	R328	J-9	R810	N-13
C318	I-11	R114	J-4	R150	K-7	R210	H-11	R329	A-15	R811	G-8
C320	I-8	R115	J-4	R152	K-7	R211	H-10	R330	J-11		
C321	H-7	R116	K-4	R154	L-6	R221	C-5	R331	J-11		

MEMOREX

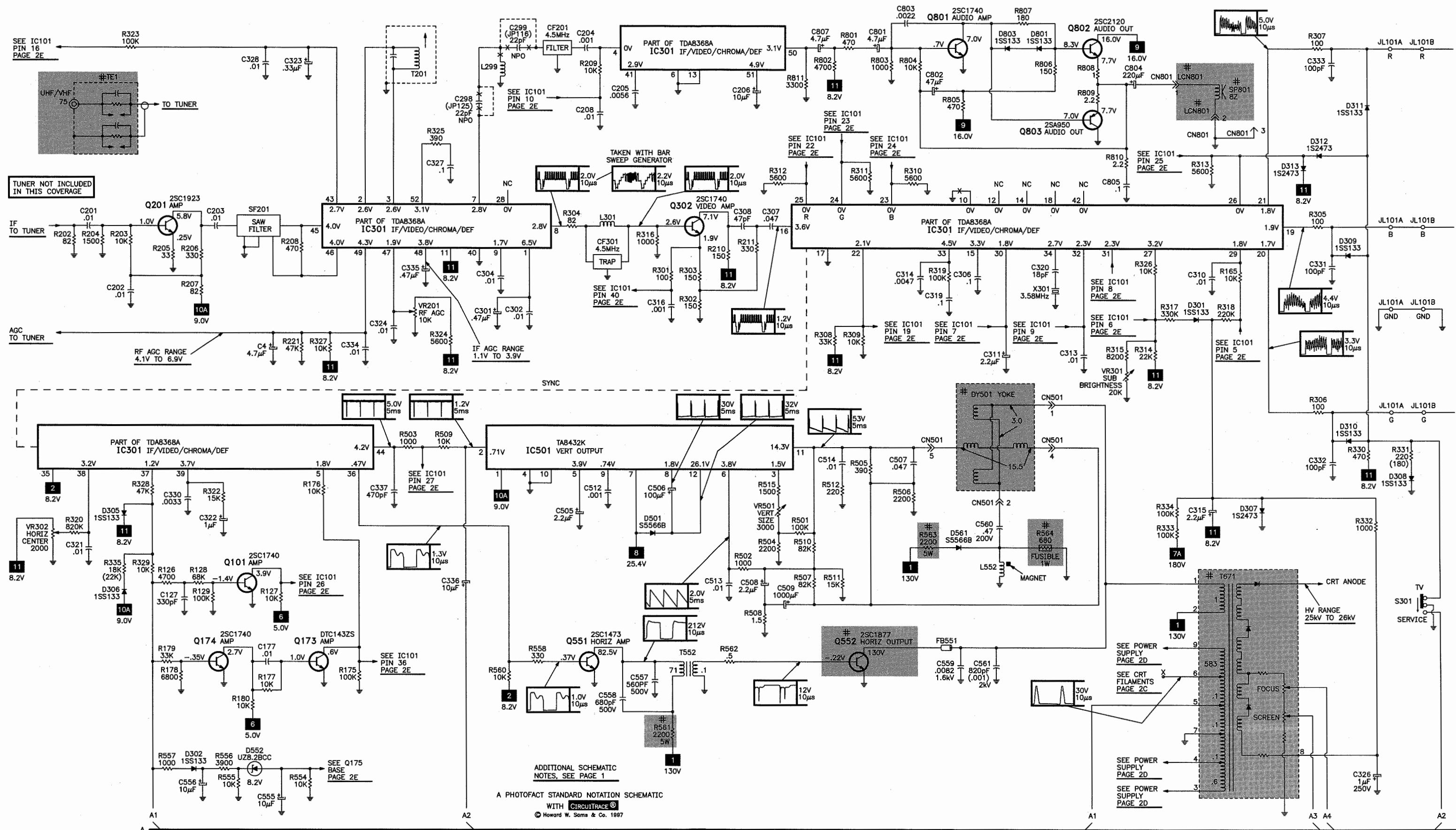
MODEL MT1191 SUFFIX A/B



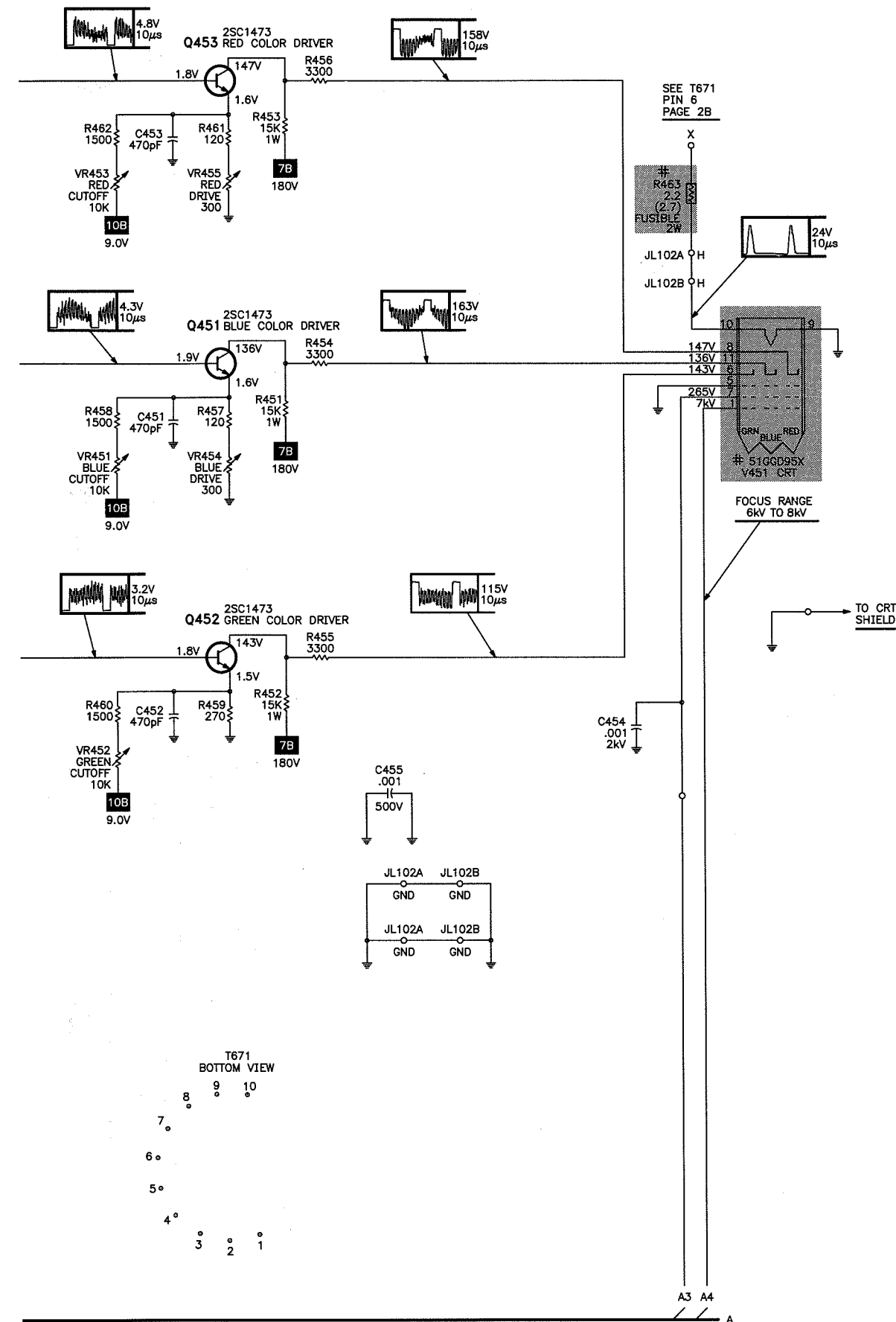
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FACT STANDARD NOTATION SCHEMATIC  
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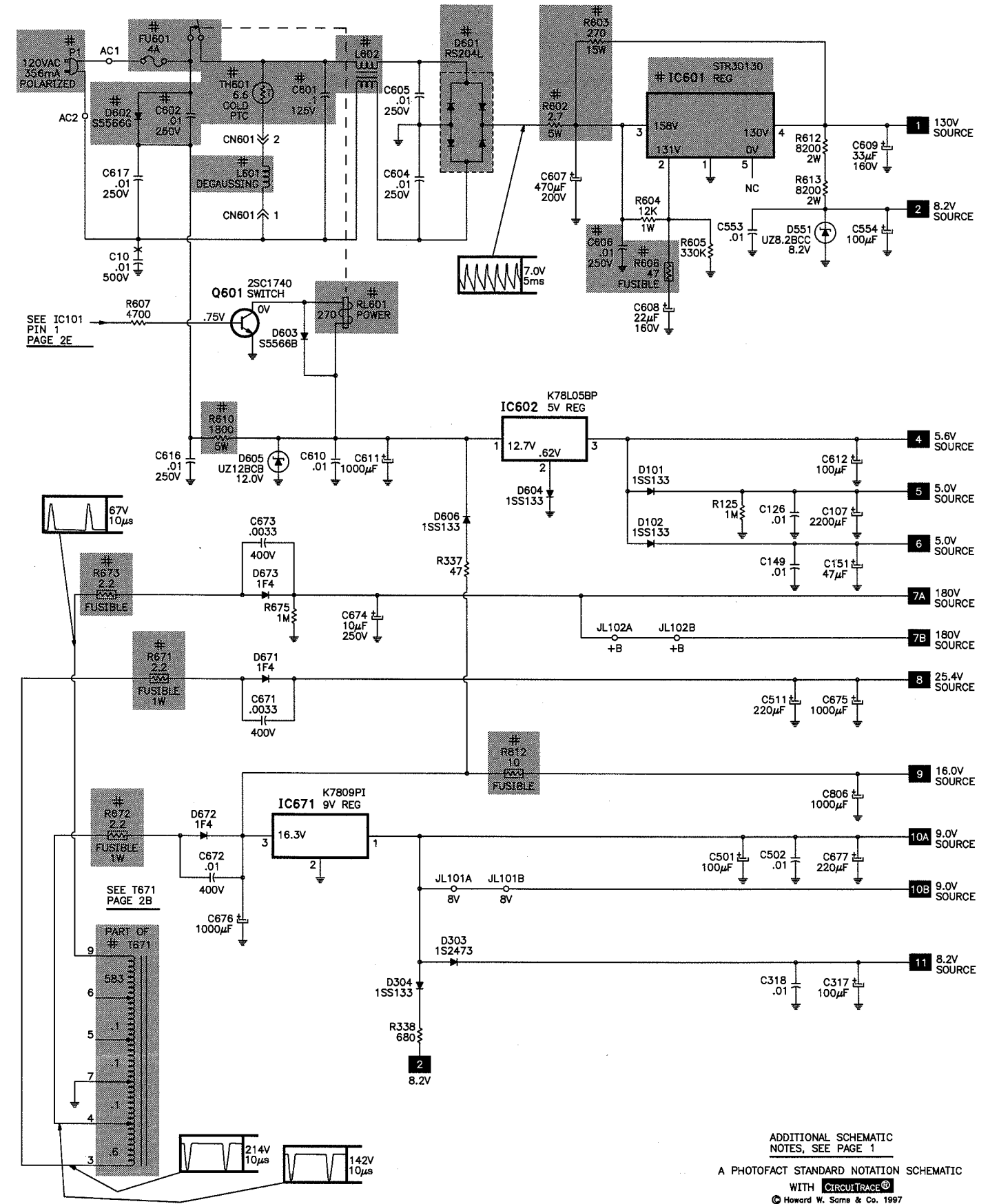


# C TELEVISION SCHEMATIC continued



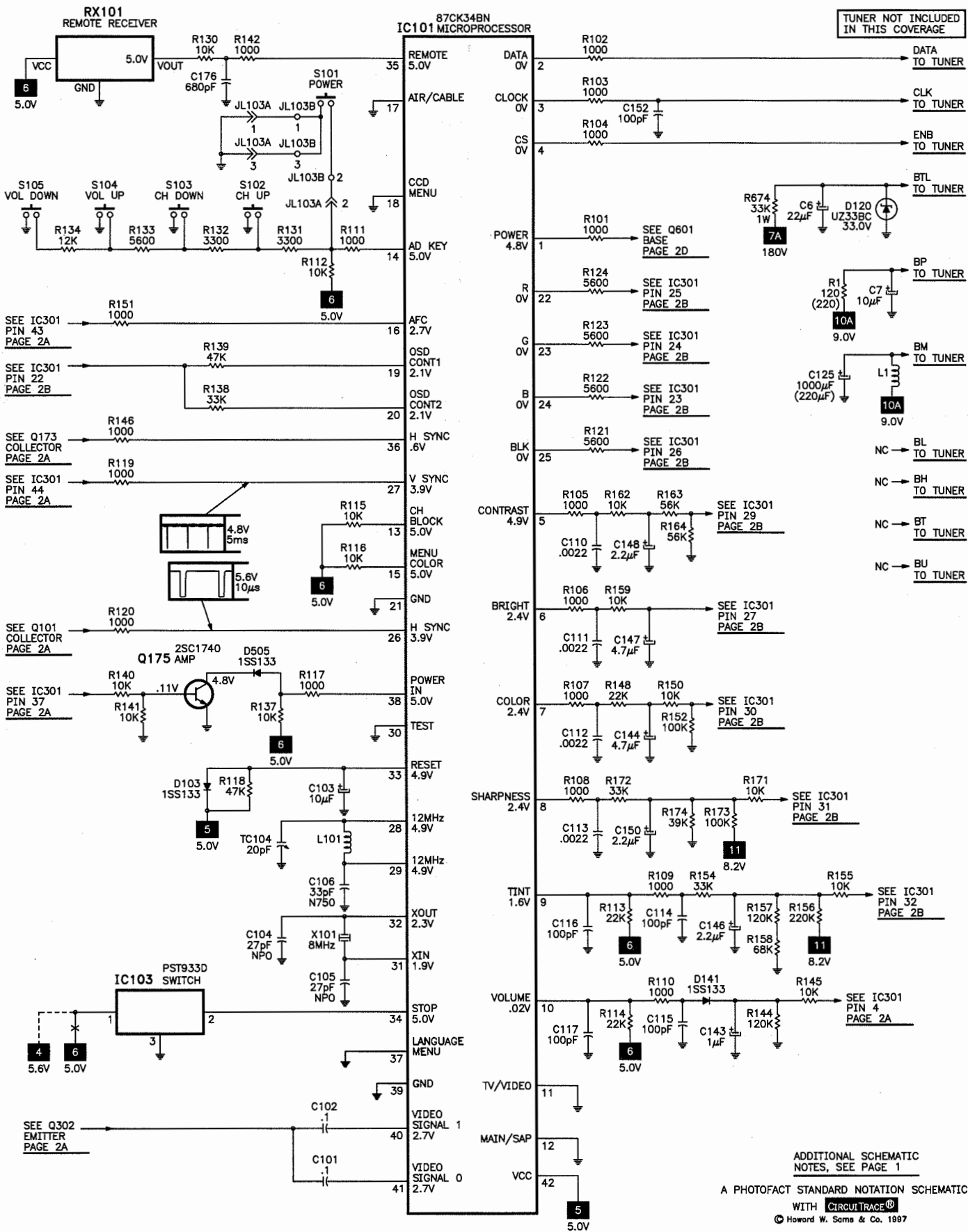
# D POWER SUPPLY SCHEMATIC

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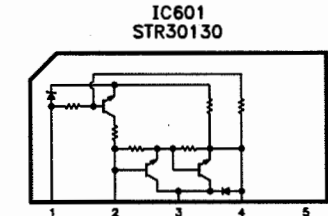
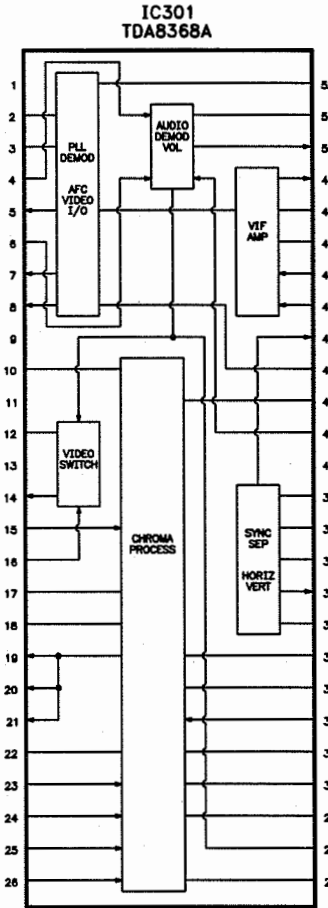


SYSTEM CONTROL SCHEMATIC



ADDITIONAL SCHEMATIC  
NOTES, SEE PAGE 1  
A PHOTOFAC STANDARD NOTATION SCHEMATIC  
WITH CIRCUITTRACE®  
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IC FUNCTIONS



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.
- Terrell & Nobis (TNI Electronics)
- Thomson Consumer Electronics, Inc. (SK, TCE)

## 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, 02, 03	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D120	UZ33BC	5635-UZ33BC	-	-	-
D141	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D301, 02	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D303	1S2473	5636-1S2473	NTE177	ECG177	SK9091
D304, 05, 06	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D307	1S2473	5636-1S2473	NTE177	ECG177	SK9091
D308 Thru					
D311	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D312, 13	1S2473	5636-1S2473	NTE177	ECG177	SK9091
D501	S5566B	5632-S5566B	NTE116	ECG116	SK3313
D505	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D551, 52	UZ8.2BCC	5635-UZ8R2BCC	-	-	-
D561	S5566B	5632-S5566B	NTE116	ECG116	SK3313
# D601	RS204L	5685-RS204L	-	-	-
# D602	S5566G	5632-S5566G	NTE116	ECG116	SK3312
D603	S5566B	5632-S5566B	NTE116	ECG116	SK3313
D604	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D605	UZ12BCB	5635-UZ12BCB	-	-	-
D606	1SS133	5636-1SS133	NTE519	ECG519	SK3100
D671, 72, 73	1F4	5632-1F4-E	-	-	-
D801, 03	1SS133	5636-1SS133	NTE519	ECG519	SK3100
IC101	87CK34BN	5654-T87K34-M	-	-	-
IC103	PST933D	5654-PST933D	-	-	-
IC301	TDA8368A	5653-TDA8368A	-	-	-
IC501	TA8432K	5653-TA8432K	-	-	-
# IC601	STR30130	5653-STR30130	NTE1777	ECG1777	SK9870
IC602	K78L05BP	5653-K78L05BP	-	-	-
IC671	K7809PI	5653-K7809PI	-	-	-
Q101	2SC1740(R)	5613-1740(R)	NTE85	ECG85	SK3122
Q173	DTC143ZS	5613-C143ZS	-	-	-
Q174, 75	2SC1740(R)	5613-1740(R)	NTE85	ECG85	SK3122
Q201	2SC1923(Y)	5613-1923(Y)	NTE107	ECG107	SK3132
Q302	2SC1740(R)	5613-1740(R)	NTE85	ECG85	SK3122
Q451, 52, 53	2SC1473A(R)	5613-1473A(R)	NTE399	ECG399	SK9352
Q551	2SC1473A(R)	5613-1473A(R)	NTE399	ECG399	SK9352
# Q552	2SD1877	5614-1877	NTE2331	ECG2331	SK10088
Q601	2SC1740(R)	5613-1740(R)	NTE85	ECG85	SK3122
Q801	2SC1740(R)	5613-1740(R)	NTE85	ECG85	SK3122
Q802	2SC2120(O)	5613-2120(O)	NTE289A	ECG289A	SK3849
Q803	2SA950(O)	5611-950(O)	NTE290A	ECG290A	SK3841

# For SAFETY use only equivalent replacement part.

## CAPACITORS & ELECTROLYTICS

Item No.	Rating	Mfr. Part No.
C104, 05	27pF 5% 50V NPO	5361-270JCH
C106	33pF 5% 50V N750	5361-33-JUJ
C298, 99	22pF NPO	-
C454	.001 10% 2kV	5361-S11BK102
C559	.0082 5% 1.6kV	5359-S161J822
C561	820pF 2kV	-
	.001 10% 2kV	5361-S11BK102
# C601	.1 10% 125V	5352-S251K104
# C602, 06	.01 +80% -20% 250V	5361-S09VZ103
TC104	20pF Trimmer	5371-00301

# For SAFETY use only equivalent replacement part.

## CABINET PARTS

Item	Mfr. Part No.
Cabinet Back Assembly	A422-19V871A
Cabinet Front Assembly	A412-19V871A
Panel Assembly	A442-19V871A
Push Button	1662-73802

## PARTS LIST

### CONTROLS & RESISTORS

Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# R463	2.2 5% 2W Fusible	5102-S141J2R2	F2W2D2
# R463 (1)	2.7 5% 2W Fusible	5102-S141J2R7	F2W2D7
# R561, 63	2200 10% 5W Wirewound	5275-S080K222	5W222
# R564	680 5% 1W Fusible	5102-6815711	F1W168
# R602	2.7 10% 5W Wirewound	5275-S080K2R7	5W2D7
# R603	270 5% 15W Wirewound	5276-271591	-
# R606	47 5% 1/4W Fusible	5102-S101J470	-
# R610	1800 10% 5W Wirewound	5275-S080K182	5W218
# R671, 72	2.2 5% 1W Fusible	5102-2R25720	F1W2D2
# R673	2.2 5% 1/4W Fusible	5102-S101J2R2	-
# R812	10 5% 1/2W Fusible	5102-S111J100	-
# TH601	6.6 Cold PTC	5192-01401	-
VR201	10K RF AGC	5101-10301934	-
VR301	20K Sub Brightness	5101-20301934	-
VR302	2000 Horizontal Center	5101-20201934	-
VR451	10K Blue Cutoff	5101-10301934	-
VR452	10K Green Cutoff	5101-10301934	-
VR453	10K Red Cutoff	5101-10301934	-
VR454	300 Blue Drive	5101-30101934	-
VR455	300 Red Drive	5101-30101934	-
VR501	3000 Vertical Size	5101-30201934	-

# For SAFETY use only equivalent replacement part.

(1) Used in model MT1191 Suffix B.

### COILS & TRANSFORMERS

Item No.	Function/Rating	Mfr. Part No.
# DY501	Yoke Horiz 2.35mH Vert 27.5mH	4993-100
# DY501 (2)	Yoke	4993-103
FB551	Ferrite Bead	5597-50301
L1	100µH	5995-101274
L101	12µH	5995-120098
L299	-	-
L301	15µH	5995-150098
L552	Horizontal Linearity	5995-540084
# L601	Degaussing	4994-040
# L602	Line Filter	5583-51903
T201	AFT	5932-12801
T552	Horizontal Driver	5581-00164
# T671 (1)	Horizontal Output	5581-00164

# For SAFETY use only equivalent replacement part.

(1) Focus and screen controls are part of T671.

(2) Used in model MT1191 Suffix B.

## MISCELLANEOUS

Item No.	Description	Mfr. Part No.	Notes
CF201	Filter	5671-0130	4.5MHz
CF301	Trap	5671-0144	4.5MHz
FH601, 02	Fuse Holder	4472-05001	For FU601 (2 Used)
# FU601	Fuse	5732-01101402	4A, 125V
# LCN801	Connector	4163-03954003	Speaker
MG451	Assembly	4291-032	Magnet
# P1	Cord	4161-04102192	AC, Polarized
# RL601	Relay	4331-02902	Power
RX101	Receiver	6143-01401	Remote
	Receiver	6143-02301	Remote
	Receiver	6143-02401	Remote
S101	Switch	4437-02401	Power
S102	Switch	4437-02401	Channel Up
S103	Switch	4437-02401	Channel Down
S104	Switch	4437-02401	Volume Up
S105	Switch	4437-02401	Volume Down
S301	Switch	4421-03101011	Service/TV
SF201	Filter	5679-4506	SAW
# SP801	Speaker	5812-0033C830	3" x 2", 8 Ohms
SU451	Socket	4474-06301	CRT
# TE1	Coupler	4363-01301	Antenna
# TU1 (1)(2)	Tuner	6119-14201	UHF/VHF
	Tuner	6119-13701	UHF/VHF
# V451	CRT	5721-015ST51N	51GGD95X
# V451 (3)	CRT	5721-51CN020T	510UEB22
X101	Crystal	5691-S1903802	8MHz
X301	Crystal	5691-S1901362	3.58MHz
	PC Board (1)	D551-19V871B	CRT
	PC Board (1)	D551-19V871A	Main
	PC Board (1)	D551-19V871J	Power
	PC Board (1)	D551-19V871C	Remote
	PC Board (1)	D551-19V871D	Remote Sub
	Transmitter	6142-08517	Remote
	Wedges	2132-412	Yoke Positioning (3 Used)

# For SAFETY use only equivalent replacement part.

(1) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.

(2) Contact TNI Electronics for replacement; order by part number on tuner.

(3) Used in model MT1191 Suffix B.

## 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