

TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3

POWER SUPPLY

POWER SUPPLY

SAFETY PRECAUTIONS

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 27.4kv at zero beam current (minimum brightness) under a 120v AC power source. The high voltage must not, under any circumstances, exceed 29.4kv. Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure on page 8 of this manual. It is recommended the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

2. This receiver is equipped with a Fail Safe (FS) circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, the FS circuit must be checked to determine that the circuit is properly functioning following the FS CIRCUIT CHECK procedure on page 8 of this manual.

3. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.

4. Some parts in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

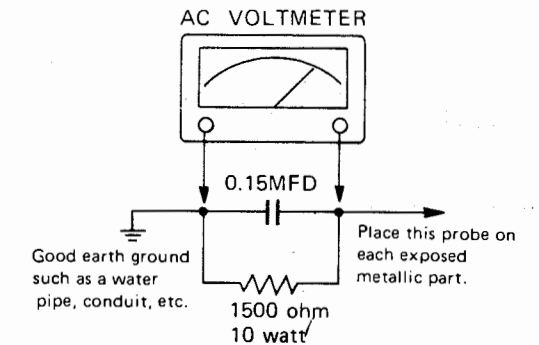
1. Since the chassis of this receiver has hazardous potential to ground whenever the receiver is plugged in (floating chassis), an isolation transformer should be used during any dynamic service to avoid possible shock hazard.

2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as: non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

4. Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screw-heads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120v AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner.

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 mfd, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 mfd capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp. AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by shading on the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

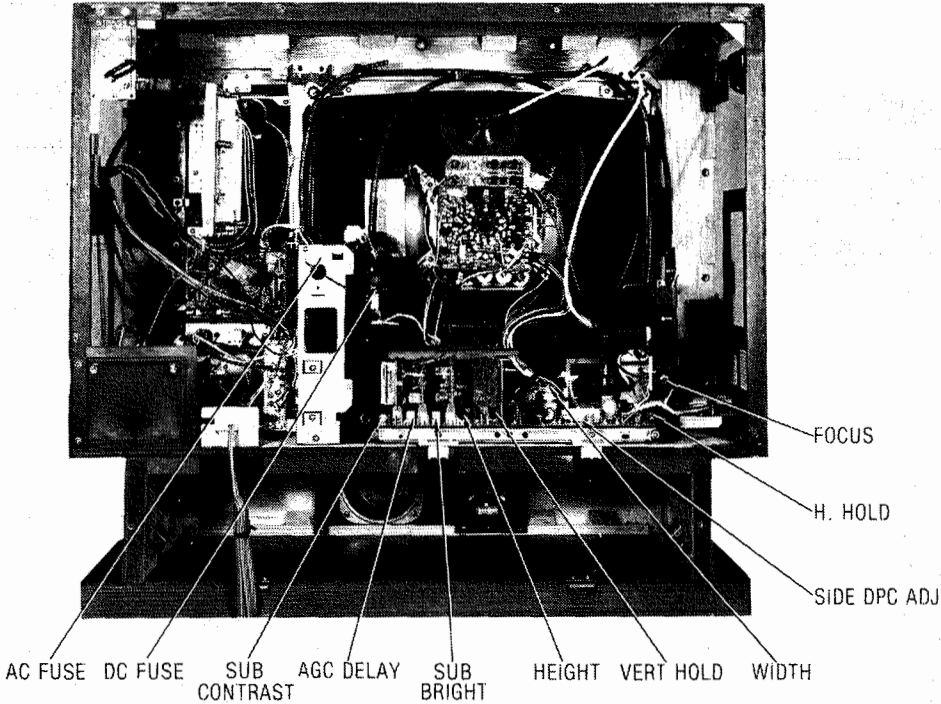
SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires to terminals before soldering. (Specially for Fail Safe Board)

2. When replacing a high wattage resistor (oxide metal film resistor) in circuit board, keep the resistor 10mm (½ in.) away from circuit board.

3. Keep wires away from high voltage or high temperature components.

Courtesy of the Manufacturer



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

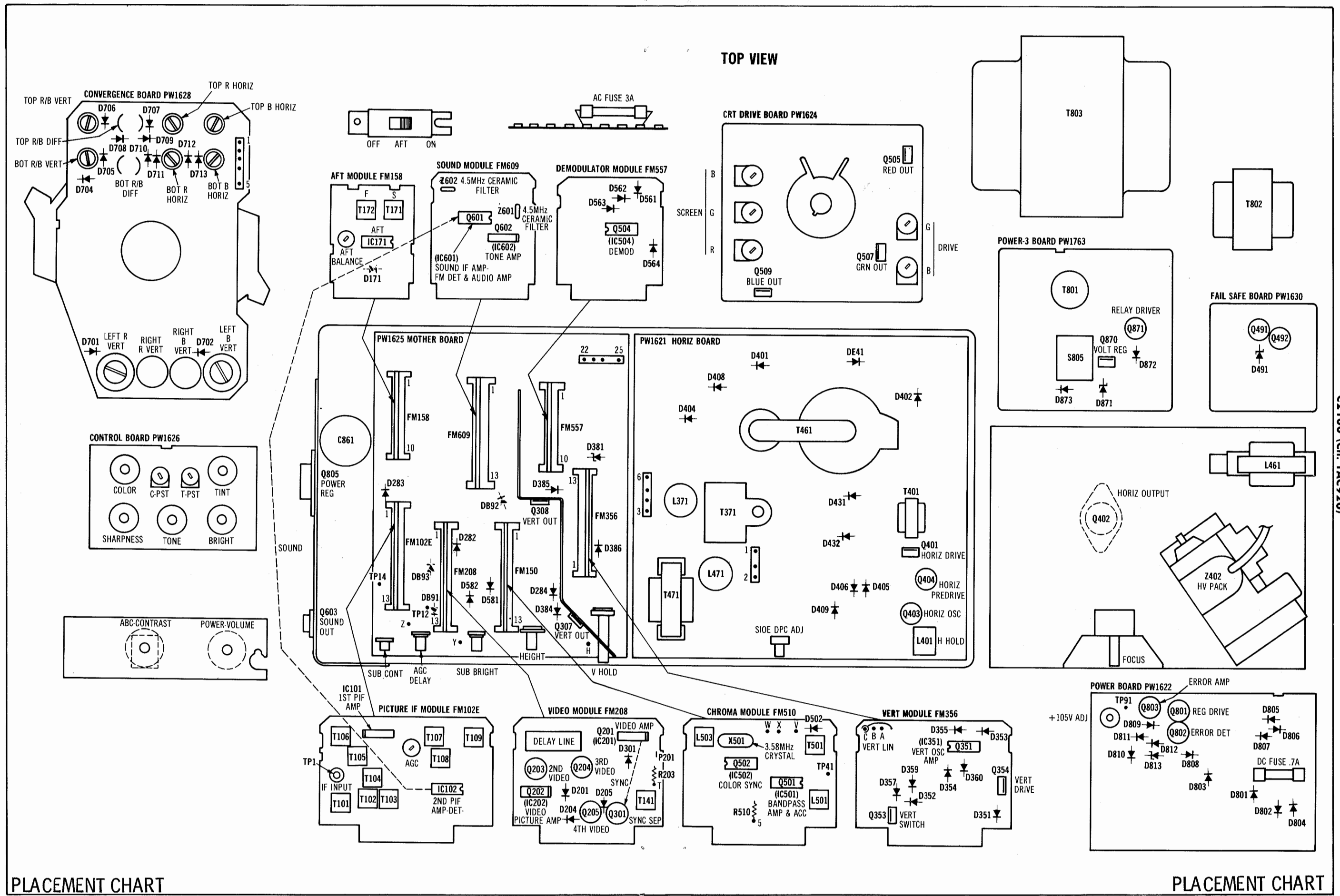
<p>CHASSIS REMOVAL</p> <p>Remove ten screws holding cabinet back and remove back from set. Remove volume and contrast control knobs from cabinet front. Remove two screws holding antenna block to cabinet rear. Disconnect five plugs from tuner control boards. Disconnect CRT socket, HV anode lead, two deflection yoke plugs, convergence board plug, speaker plug, degaussing coil plug, and ground wires. Remove two screws holding volume and contrast controls to cabinet front. Remove two screws holding color and brightness con-</p>	<p>trol board to cabinet front. Remove four nuts holding AC power cord to cabinet bottom. Remove three screws holding chassis to cabinet bottom. Disconnect audio output transformer plug and remove chassis from cabinet.</p> <p>CRT REMOVAL</p> <p>Follow "Chassis Removal" procedure and lay set facedown on a soft protective surface. Loosen and remove CRT neck assemblies. Remove four nuts holding CRT and lift CRT from cabinet. <u>Do not</u> lift CRT by the neck.</p>
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SERVICING IN THE FIELD

<p>CRT IMPLOSION PROTECTION AND CLEANING</p> <p>Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal</p> <p>FUSE DEVICES</p> <p>A .7-amp fuse is used for low-voltage power-supply protection. (See Placement Chart.)</p> <p>A 3-amp fuse is used for AC line protection. (See photo, Cabinet - Rear View.)</p> <p>VHF/UHF TUNER</p> <p>Place bandswitch to proper band position. (VL: Channels 2-6, VH: Channels 7-13, U: Channels 14-83). Tune in desired station with corresponding thumb wheel for best picture and sound.</p> <p>HORIZONTAL OSCILLATOR</p> <p>Adjustment of the horizontal hold is accom-</p>	<p>plished by the proper setting of the Horiz. Hold Coil. (See photo, Cabinet-Rear View.)</p> <p>HIGH VOLTAGE</p> <p>For adjustment of the high voltage, refer to Miscellaneous Adjustments.</p> <p>WIDTH</p> <p>The width may be varied by adjusting the width coil. (See photo, Cabinet - Rear</p> <p>FOCUS</p> <p>The focus may be varied by a focus control. (See photo, Cabinet-Rear View.)</p> <p>AGC</p> <p>The AGC may be varied by an AGC Delay control. (See photo, Cabinet-Rear View.)</p>
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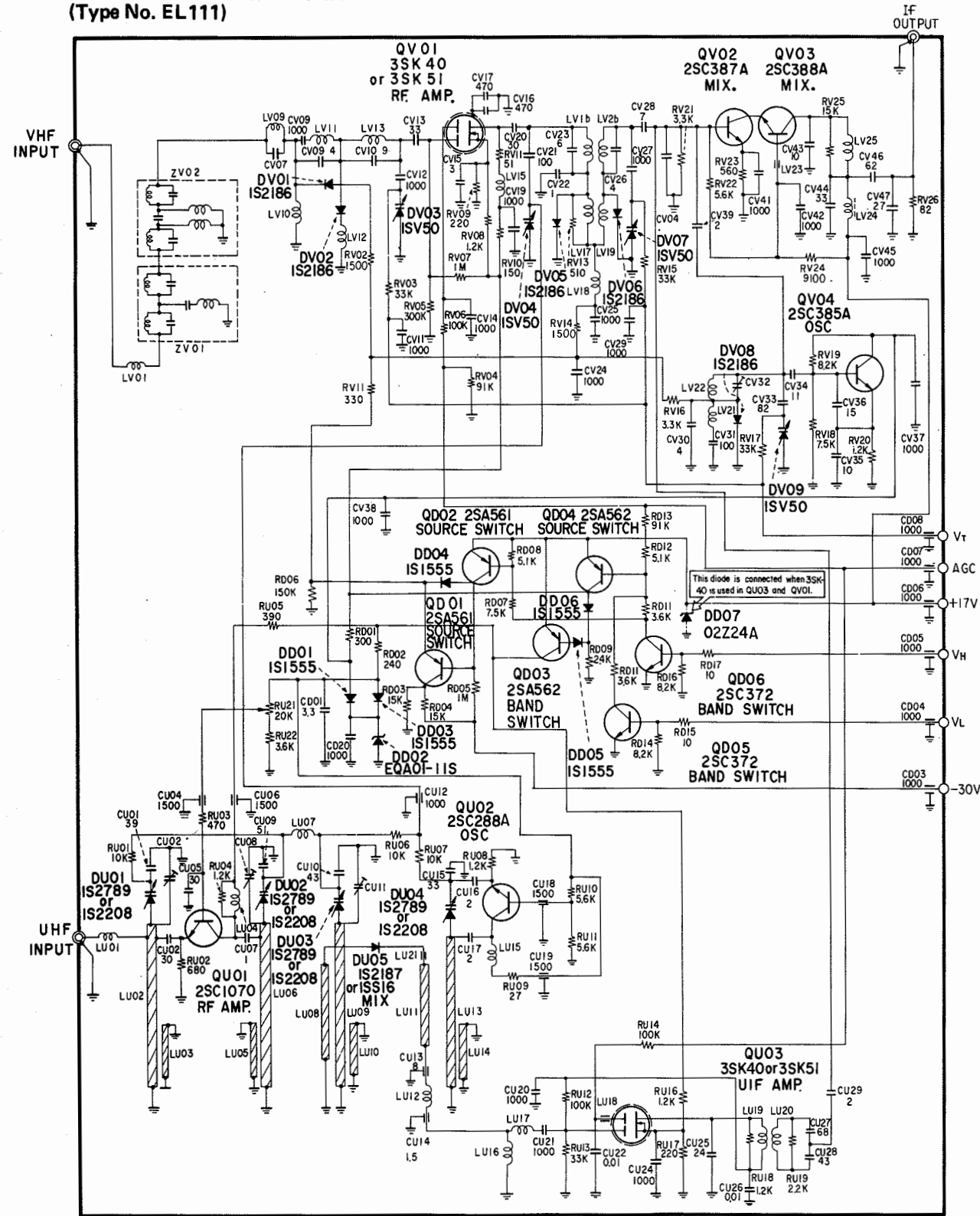
FOLDER 3



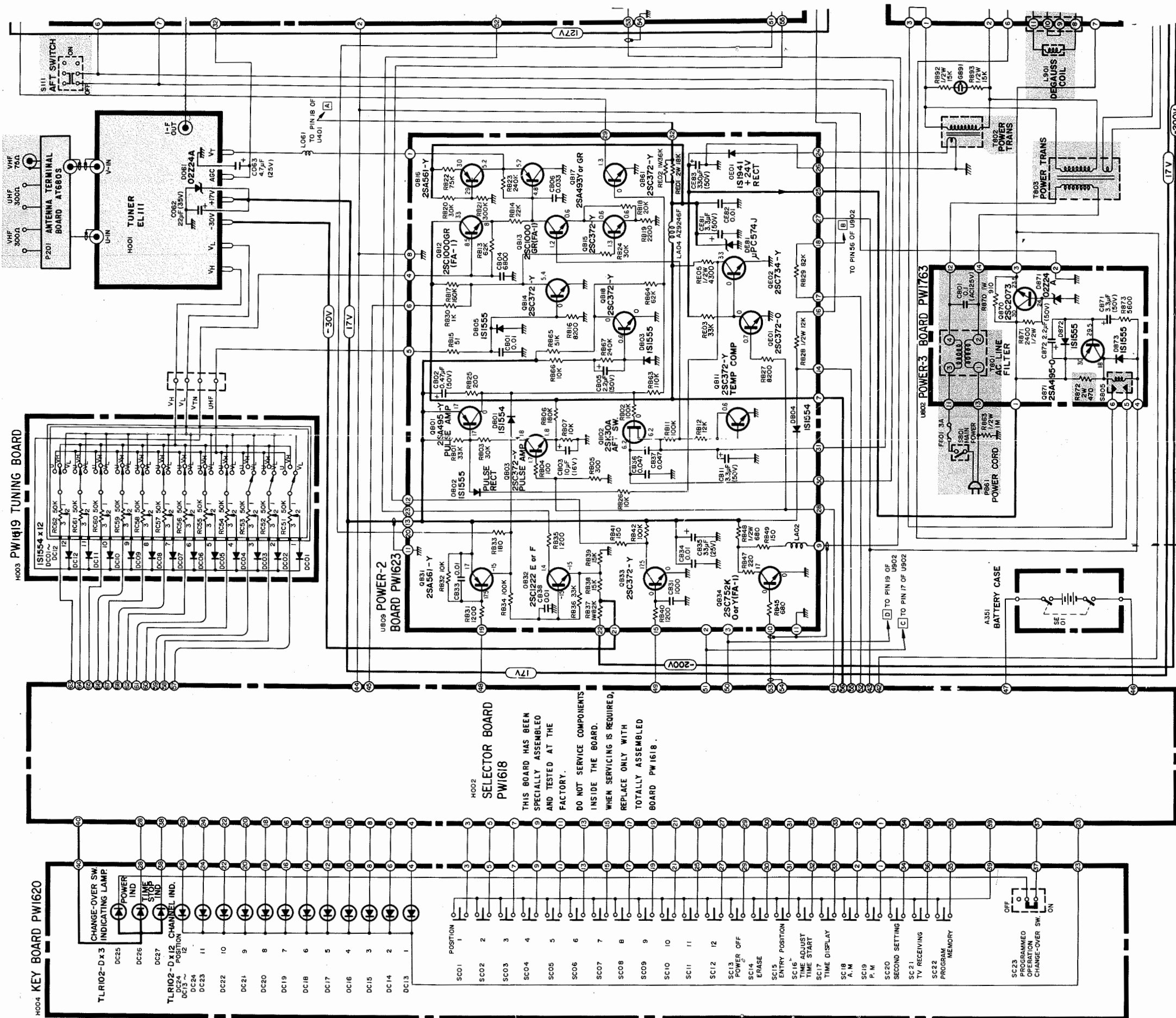
PLACEMENT CHART

PLACEMENT CHART

TUNER SCHEMATIC DIAGRAM
(Type No. EL111)



KEY-POWER-2-TUNING BOARDS



LOCATION NUMBER	PART NUMBER	DESCRIPTION
POWER-2 BOARD		
COILS		
LA02	23261051	Coil, AZ9246E, Choke, 3.7μH
LA04	23261052	Coil, AZ9246F, Choke, 2.3μH
SEMICONDUCTORS		
QB01	A650232E	PNP Transistor, 2SA495-Y
QB02	A6048371	FET, 2SK30A
QB03, QB11		
QB14, QB15	A670729B	NPN Transistor, 2SC372-Y
QB18, QB33		
QB61		
QB12, QB13	A675419H	NPN Transistor, 2SC1000-GR FA-1
QB16, QB31	A650904K	PNP Transistor, 2SA561-Y
QB17	A6502150	PNP Transistor, 2SA493-GR
	or A6502120	PNP Transistor, 2SA493-Y
QB32	23114925	NPN Transistor, 2SC1222-E
	or 23114926	NPN Transistor, 2SC1222-F
QB34	A6734574	NPN Transistor, 2SC752K-Y FA-1
	or A6734554	NPN Transistor, 2SC752K-O FA-1
QE01	A670720K	NPN Transistor, 2SC372-O (TV)
QE02	A673347F	NPN Transistor, 2SC734-Y (TV)
DB01, DB04	A7246653	Diode, 1S1554 (TV)
DB02, DB03		
DB05	A7246711	Diode, 1S1555 (TV)
DE01	A7572100	Diode, 1S1941
DE81	23115922	Zener Diode, μPC574 J
TUNING BOARD		
RESISTOR		
HA11	24060729	VR Assembly, TUNING
KEY BOARD		
SEMICONDUCTORS		
DC13, DC14		
DC15, DC16		
DC17, DC18		
DC19, DC20		
DC21, DC22	A8600046	LED, TLR102D
DC23, DC24		
DC25, DC26		
DC27		
MISCELLANEOUS		
SC01, SC02		
SC03, SC04		
SC05, SC06		
SC07, SC08	23145805	Push Switch
SC09, SC10		
SC11, SC12		
SC13, SC17		
SC14, SC15		
SC16, SC18		
SC19, SC20	23145804	Push Switch
SC21, SC22		
SC23	23145803	Slide Switch
PA11	23163975	Connector, 22P
MA11	23163892	Connector, 18P

Courtesy of the Manufacturer

KEY-POWER-2-TUNING BOARDS

TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 120VAC. Allow a 20-minute warm-up period for receiver and test equipment.
Suggested Alignment Tools: GC ELECTRONICS
L501, T101 thru T109, T151, S and F (AFT/AFC Unit)
L503, T501 9440

PRELIMINARY INSTRUCTIONS

Set the channel selector to the highest unused channel. Set scope sweep to external. Connect scope vertical input to scope vertical input on sweep/marker generator. Connect scope external horizontal input to scope horizontal input on sweep/marker generator. Ground test equipment to TV chassis unless specified otherwise. Use only enough generator output to provide a usable indication.
Note: Response may vary slightly from that shown.
Connect a 7-volt bias thru 2200-ohm resistor to TP14 (on Mother Board).
AFT Switch to Off.
Turn AGC Control (R151) and AGC Delay Control (R152) fully clockwise.

VIDEO IF ALIGNMENT

DIRECT PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To TP12 (on Mother Board)	To TP1 (IF Input Cable)	44MHz (10MHz Sweep)	39.75MHz	Adjust T103 (Picture IF Module) for MINIMUM. See Figure 1.
			41.25MHz	Adjust T102 and T108 (Picture IF Module) for MINIMUM. See Figure 1.
			47.25MHz	Adjust T101 (Picture IF Module) for MINIMUM. See Figure 1.
			39.75MHz	Alternately adjust T104, T105, T106, T107 and T109 (Picture IF Module) for maximum gain and symmetry of response. T105, T106, T107 affect 44.00MHz. T104 affects 42.17MHz. T109 affects 45.75MHz. See Figure 2.

NOTE: After completing alignment, readjust AGC (R151) and AGC Delay (R152). See Miscellaneous Adjustments.

4.5MHz TRAP ALIGNMENT

Tune in a strong TV signal and set the contrast at maximum. Adjust the fine tuning until a beat pattern is visible on the screen. Adjust T141 for MINIMUM beat interference.

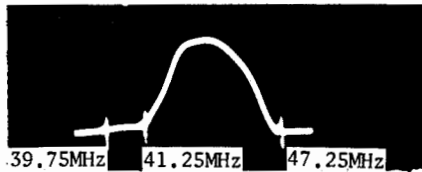


Figure 1

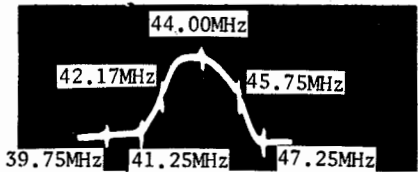
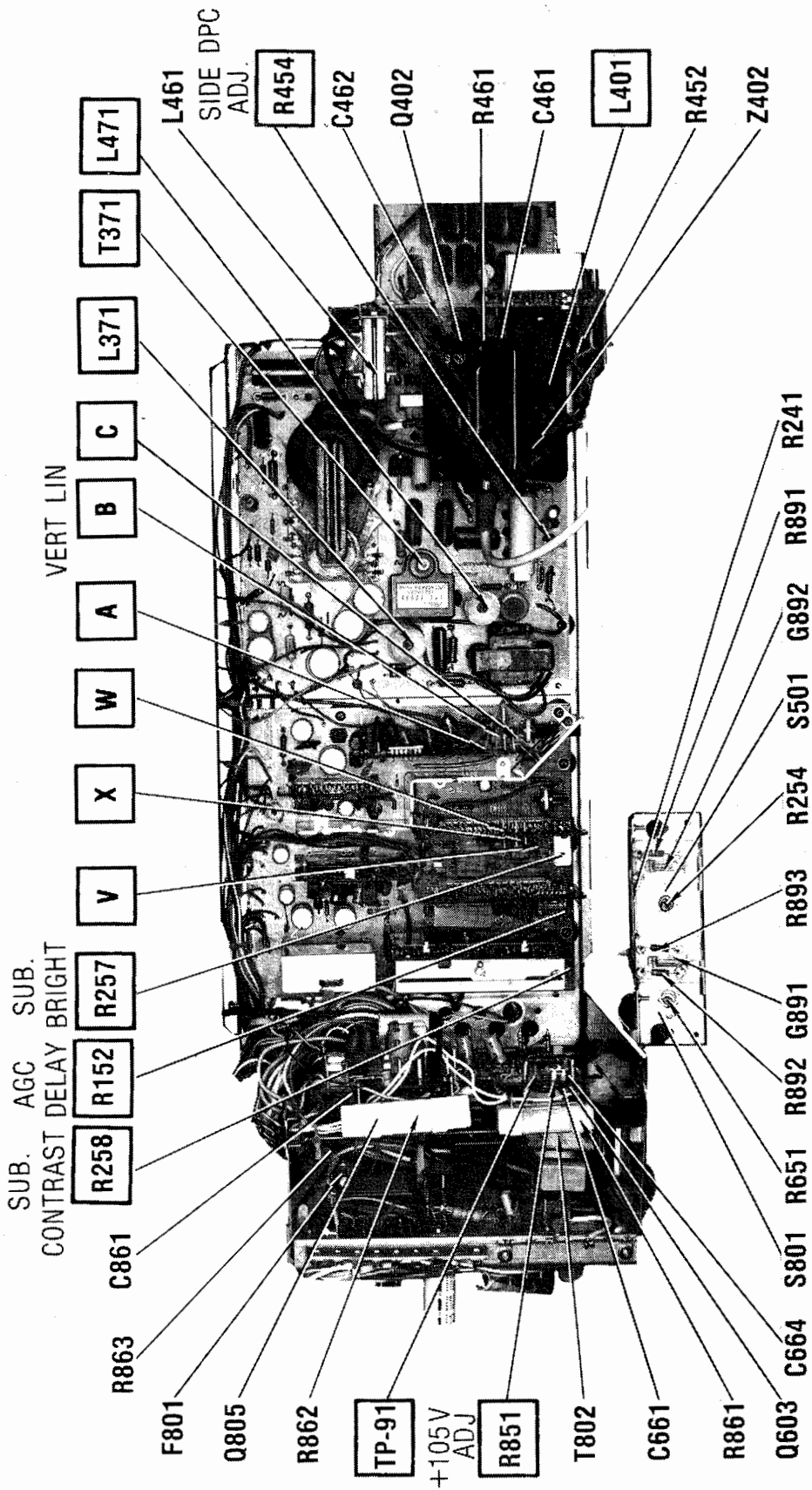


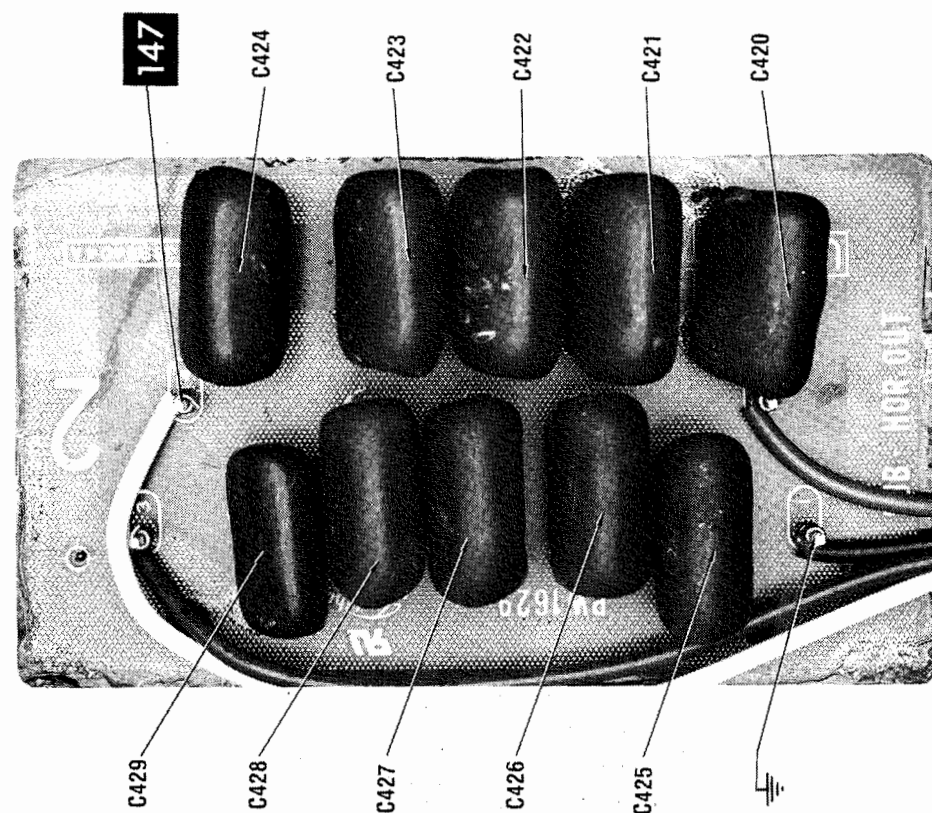
Figure 2



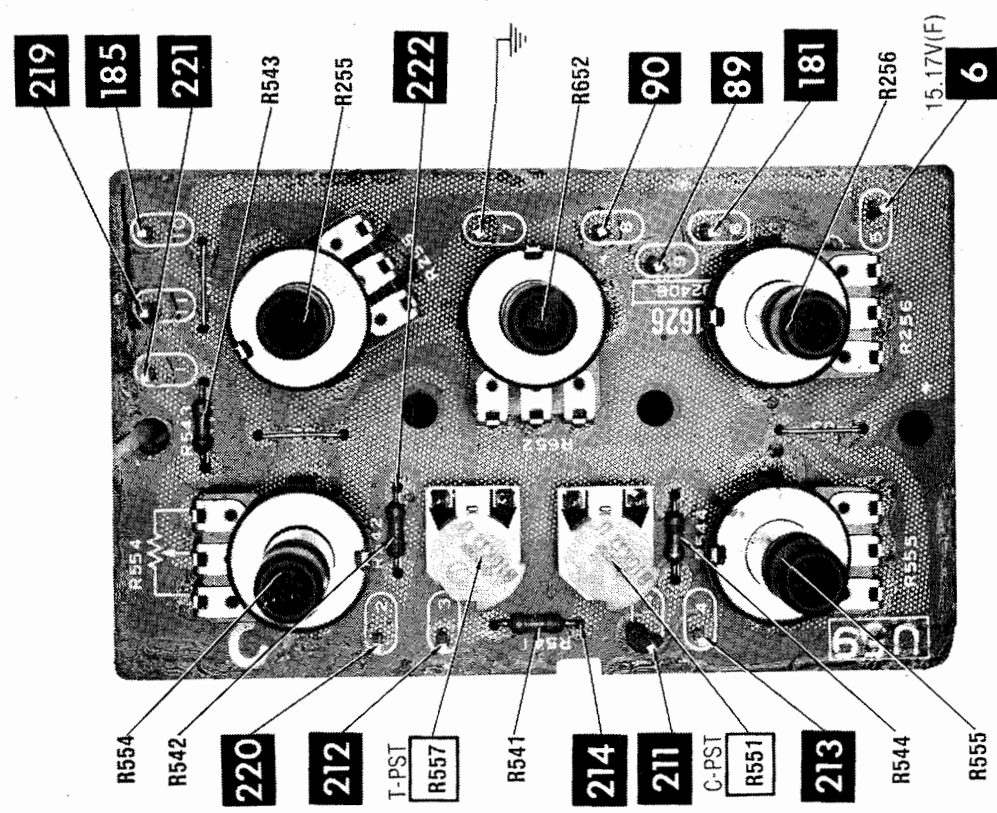
CHASSIS-TOP VIEW

TOSHIBA MODEL
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SUB HORIZ BOARD A Howard W. Sams CIRCUITRACE® Photo



CONTROL BOARD A Howard W. Sams CIRCUITRACE® Photo

TV ALIGNMENT INSTRUCTIONS (Continued)

AUTOMATIC FINE TUNING ALIGNMENT (AFT)

1. Place the AFT Switch in Off position. Tune the set to an active channel and adjust Tuning Thumb Wheel for best picture.
2. Place the AFT Switch to On and adjust F (T172) on AFT module for best picture. Picture quality should be the same as that obtained in step 1.
3. Check Pull-In action by activating and deactivating AFT, while rotating Tuning Thumb.Wheel clockwise and counter-clockwise.

CAUTION: Do not attempt adjustment on S (T171) and AFT Balance Control (R158). These are preadjusted at the factory using special signal and equipment. Adjustment may result in unstable AFT operation.

CHROMA BANDPASS ALIGNMENT

Connect as explained in preliminary instructions. Set color control to maximum, tint control to mid-range. Connect a +10 volt bias supply thru a 2200 ohm resistor to TP14. (On Mother Board). AFT Switch to Off.

DETECTOR PROBE FROM SWEEP/MARKER GENERATOR	SWEEP GENERATOR OUTPUT	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
To Terminal V. (on Chroma Module)	To Point T. (on Video Module)	3.58MHz (3-5MHz Sweep)	3.08MHz 3.58MHz 4.08MHz	Adjust L501 and T501 for maximum gain and symmetry of response. See Figure 3.

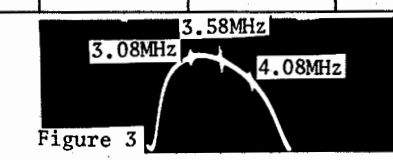
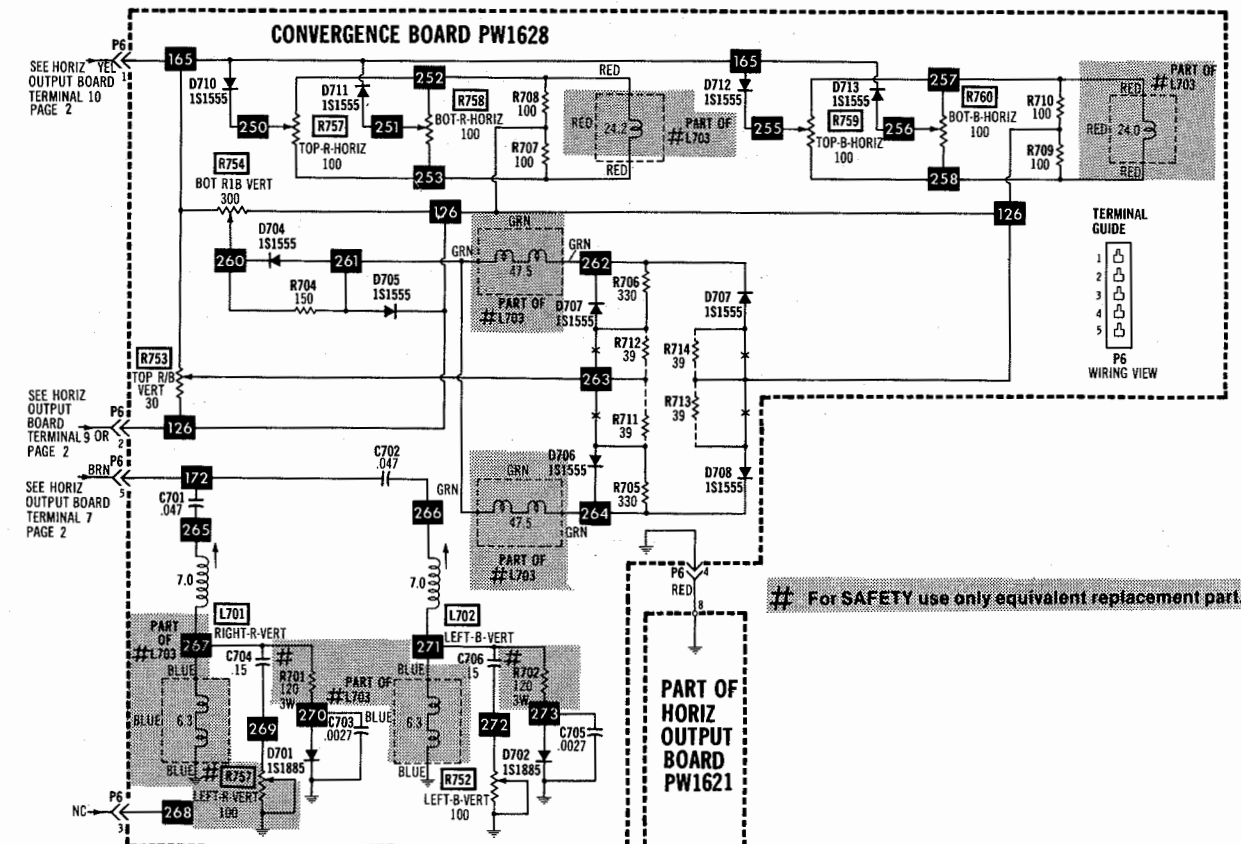


Figure 3

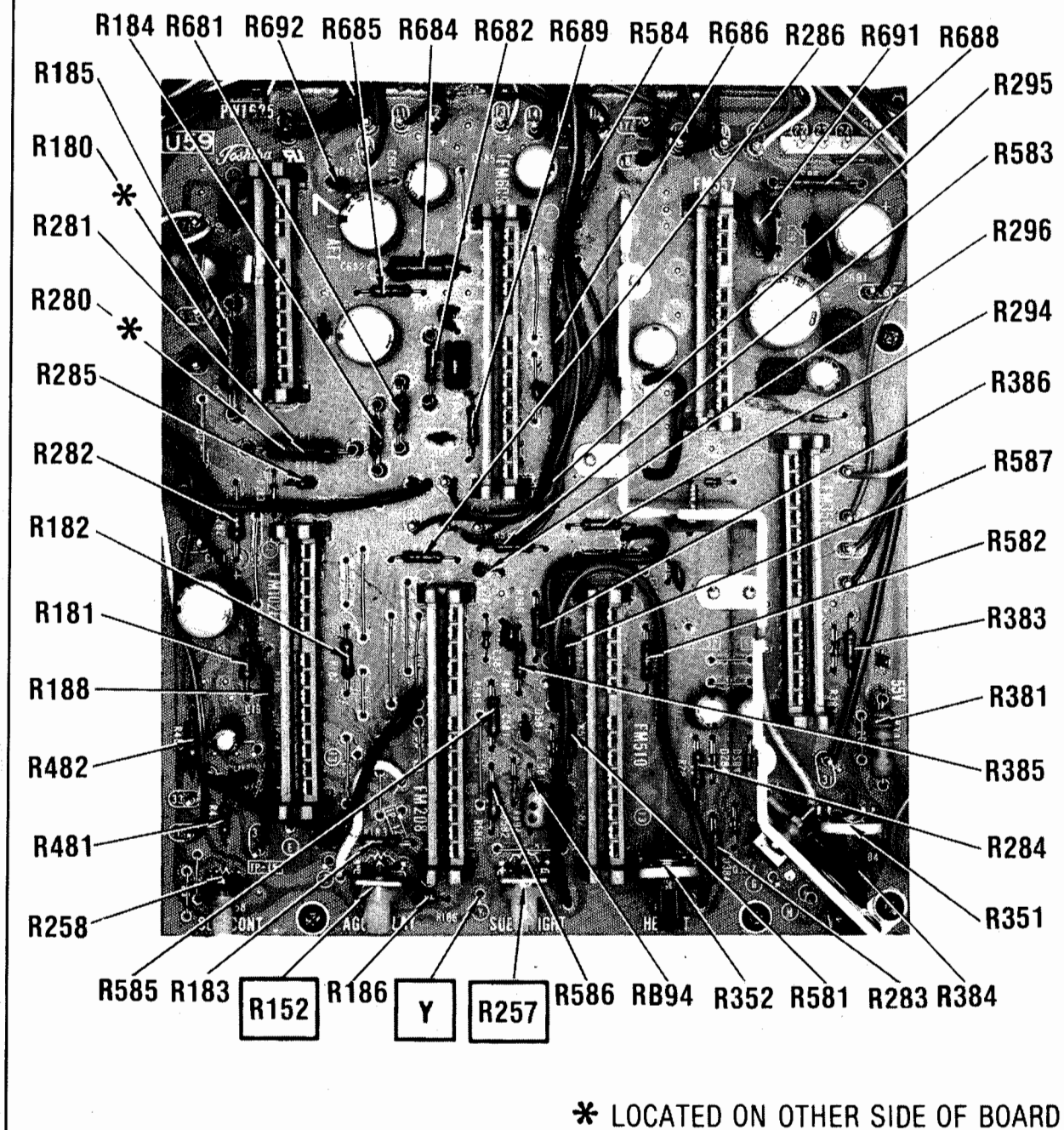


CONVERGENCE BOARD

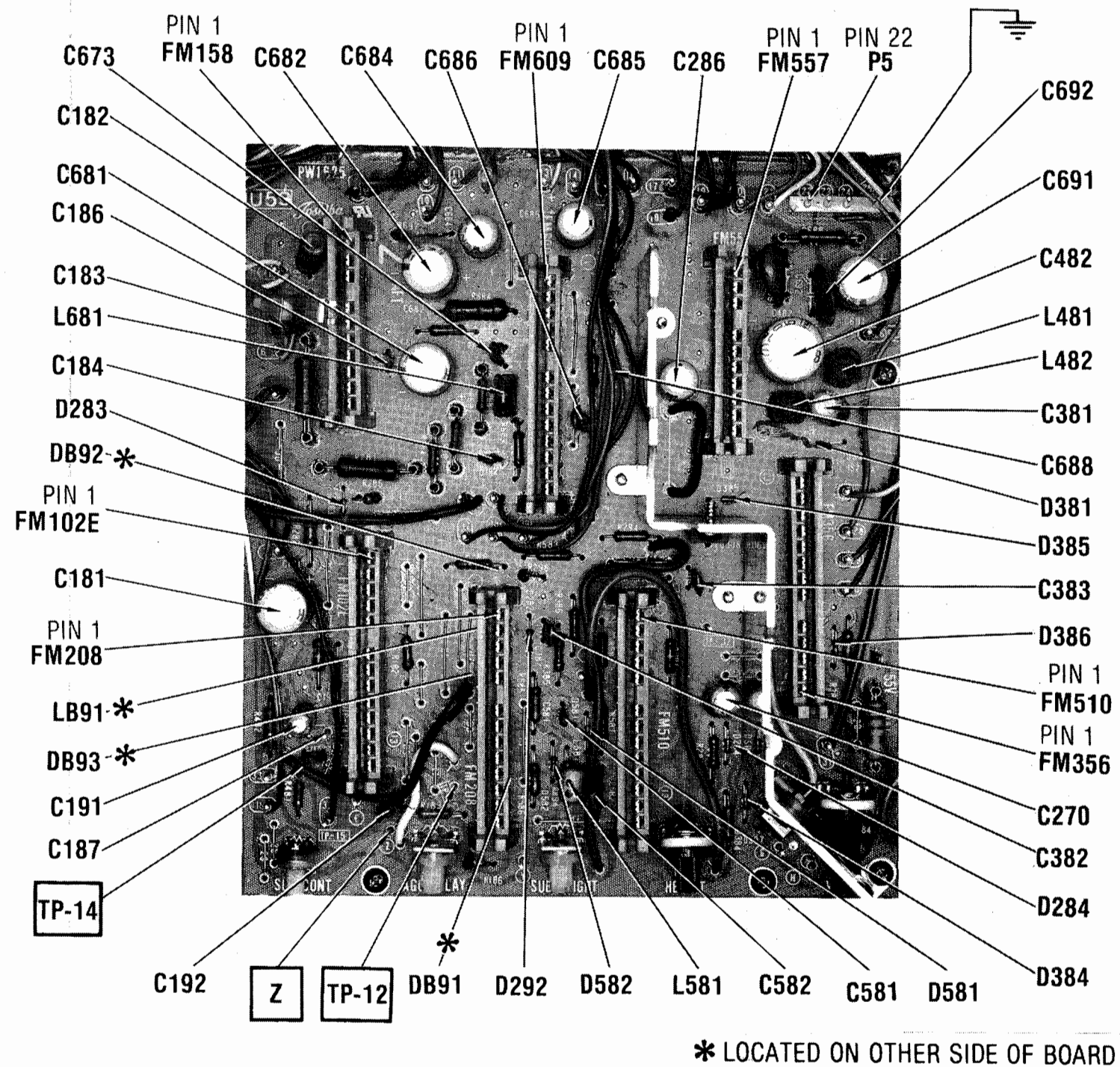
A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH CIRCUITRACE®
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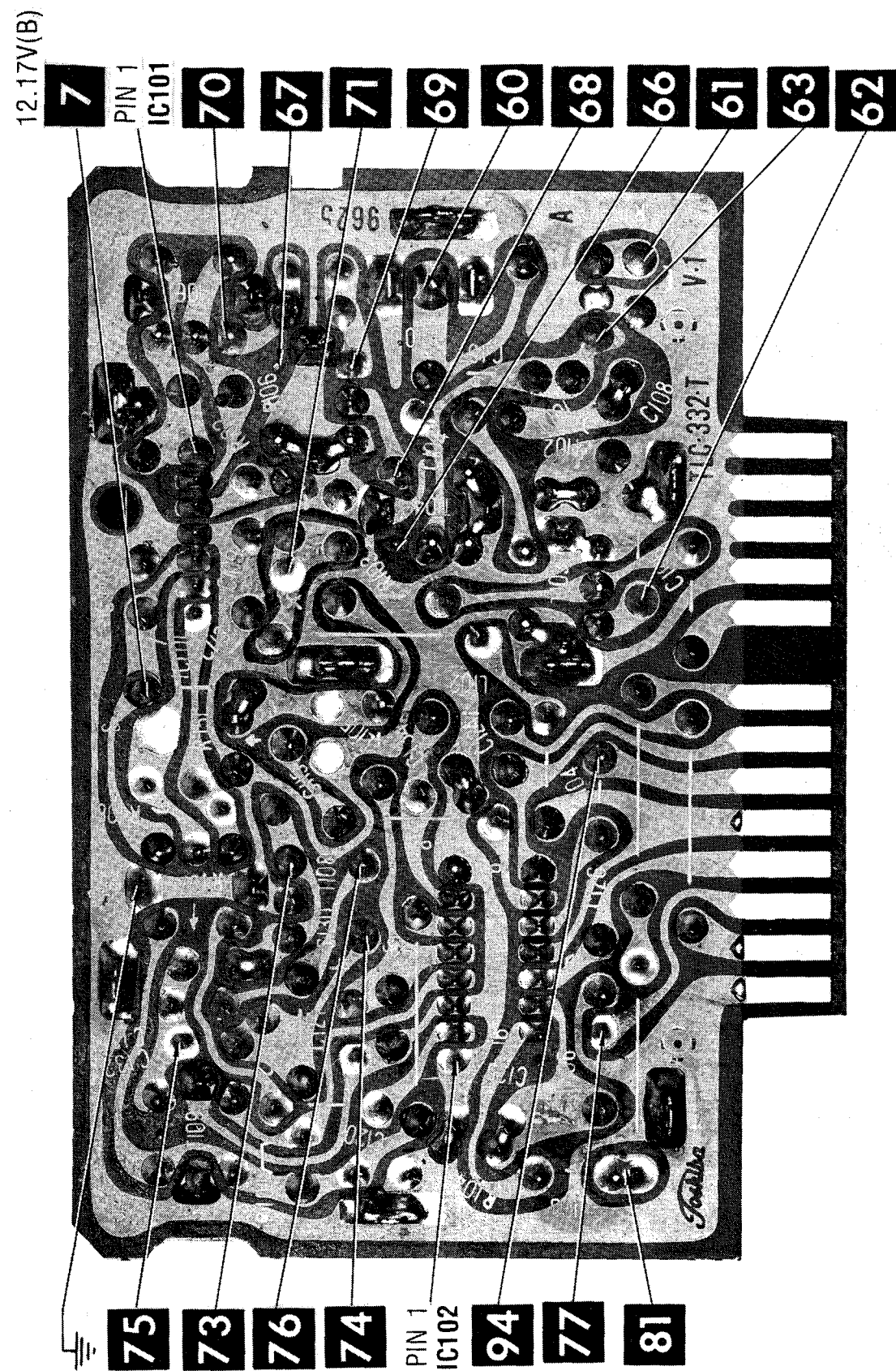
MOTHER BOARD



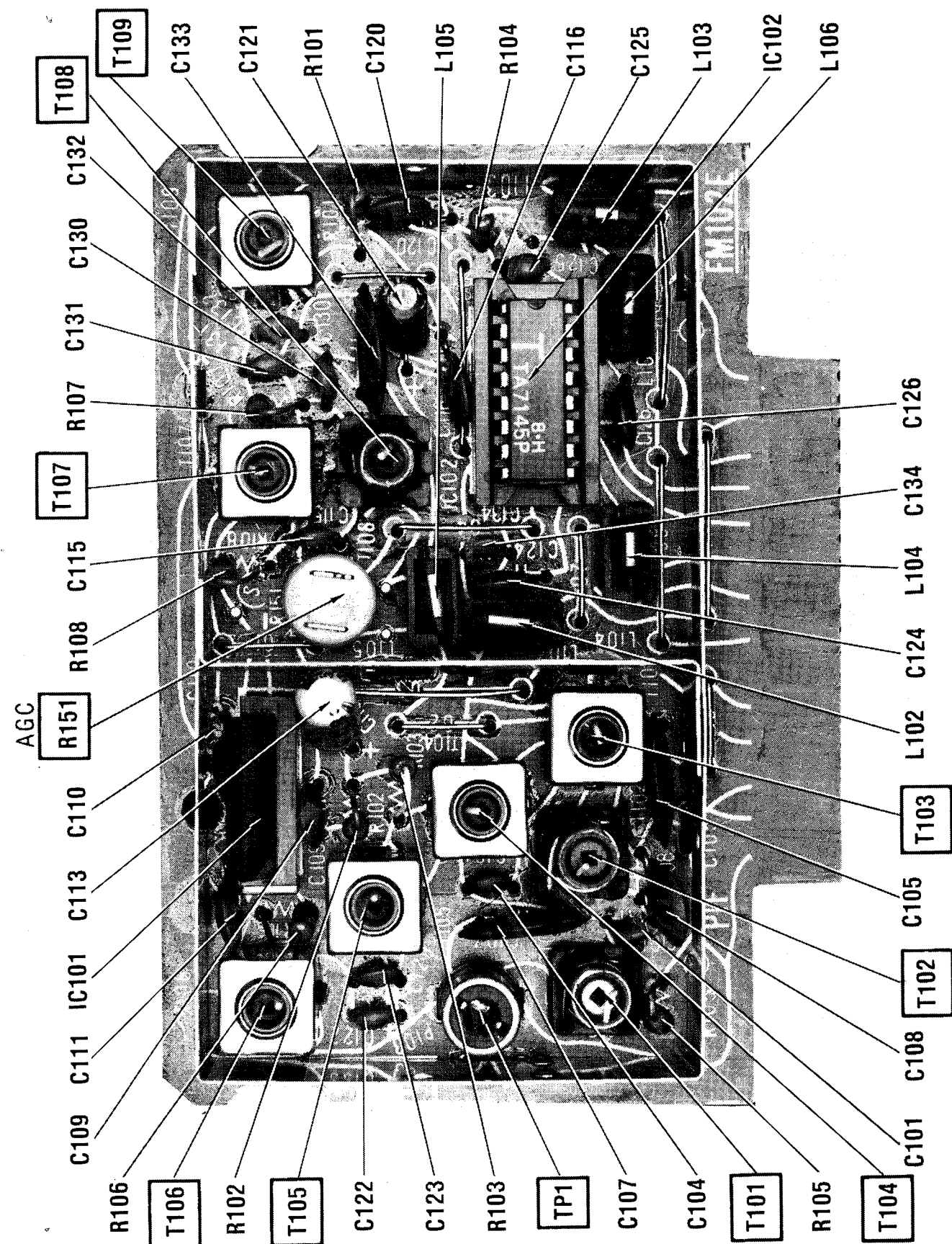
MOTHER BOARD

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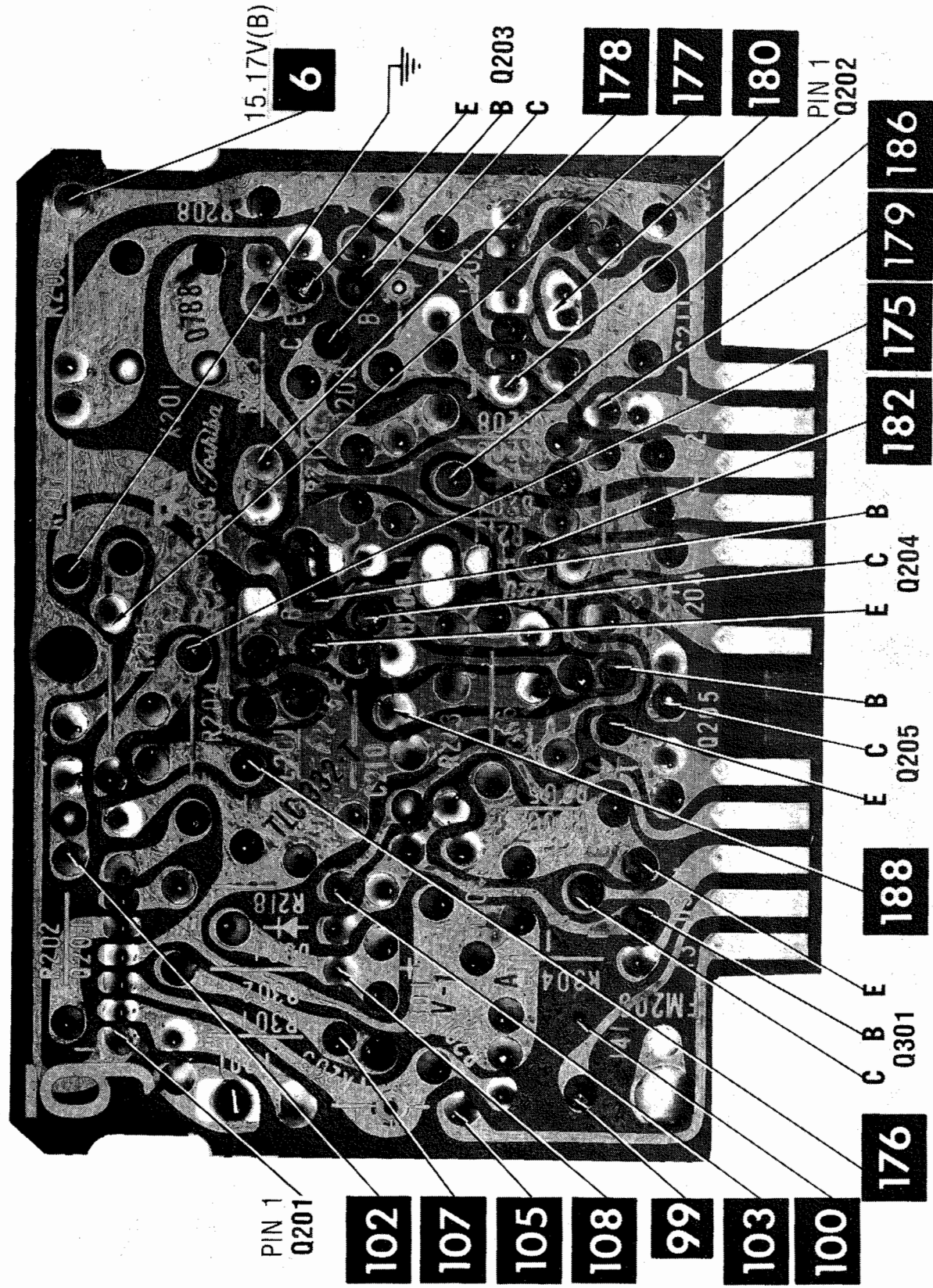
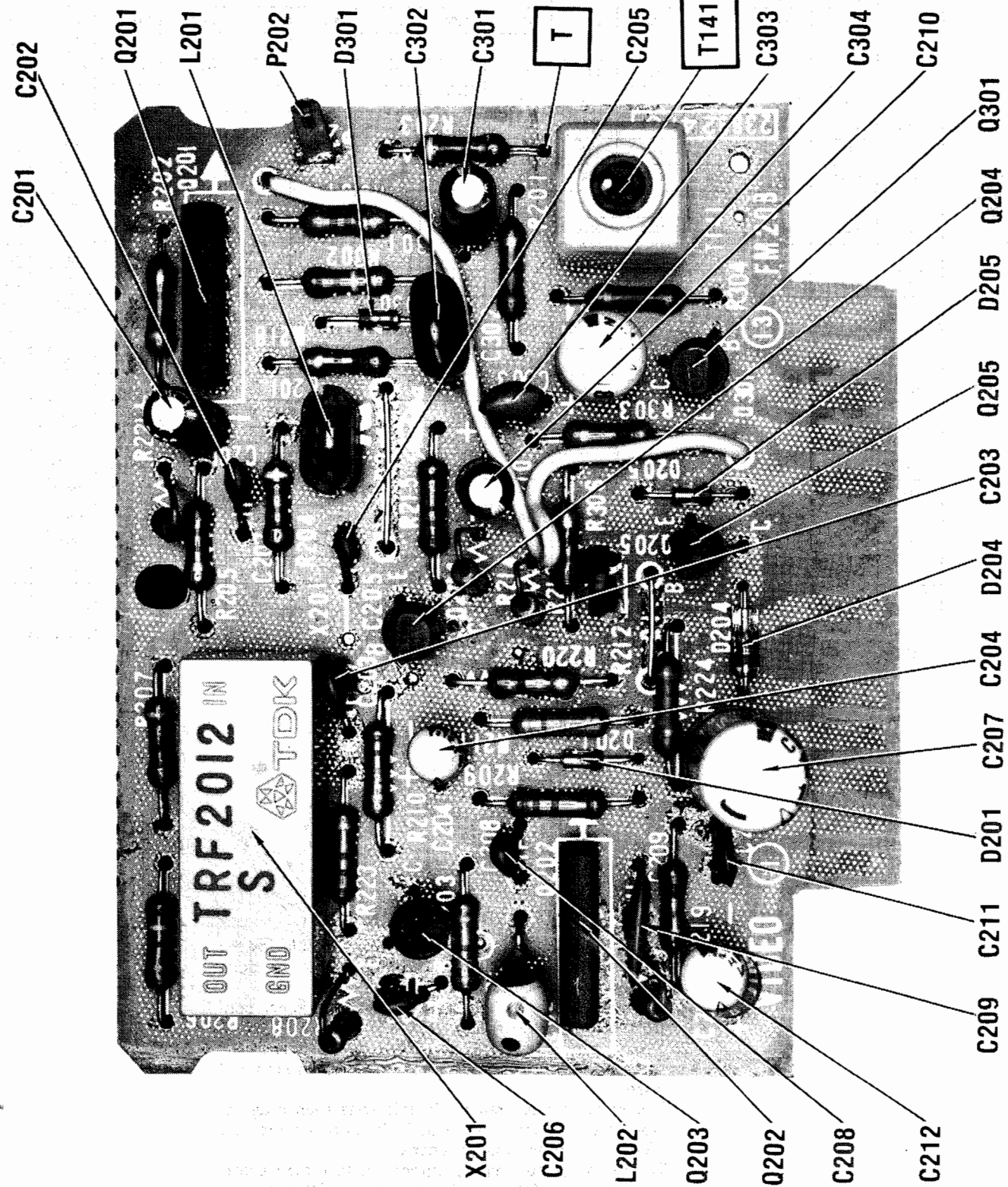
PICTURE IF MODULE A Howard W. Sams **CIRCUITRACE®** Photo

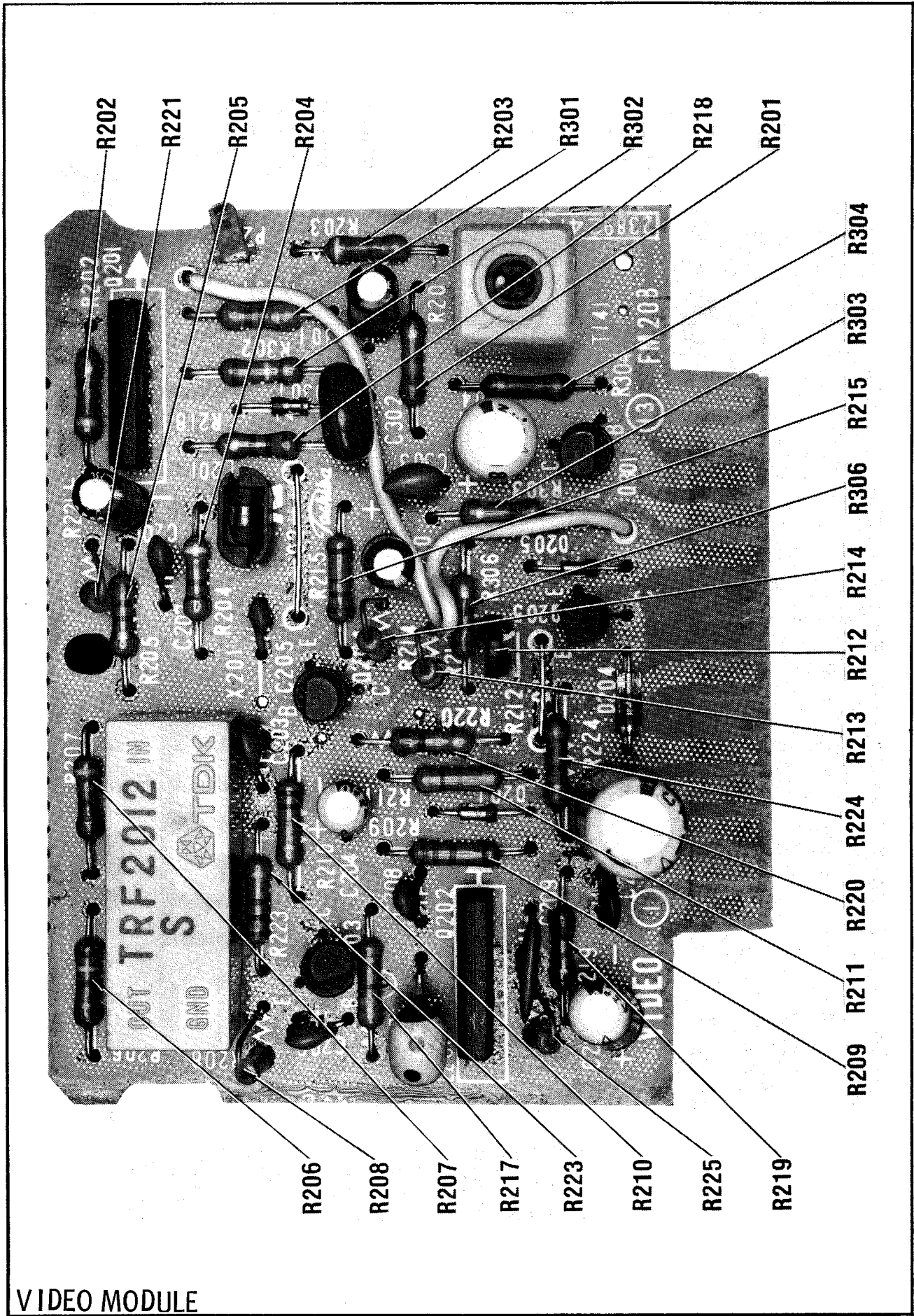


PICTURE IF MODULE

**TOSHIBA MODEL
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VIDEO MODULE

RESISTANCE MEASUREMENTS														
MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS														
ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	PIN 14
V901	FIL	1M	60K	53K	1.1M	53K	60K	NC	50M	NC	60K	53K	1M	FIL
IC101	9800	9800	INF	0	218	218	218							
IC102	0	59K	0	59K	218	59K	1684	0	43K	827	100K	INF	4050	9900
													PIN 15 1093	PIN 16 17K
IC171	INF	INF	INF	10K	INF	INF	13K	13K	0	INF	INF	INF	0	10K
Q201	165	INF	1680	0	10K	264	3170							
Q202	166	917	INF	0	1050	1278	165							
Q351	178K	11K	0	0	18K	42K	9630	992	40K	0	0	0	9470	174K
Q501	6230	437	170	0	12K	10K	3530	266	INF	3030	7520	165	5670	12K
													PIN 15 INF	PIN 16 4720
Q502	130K	156K	107K	107K	2000	2180	165	2000	10K	0	2570	2300	4370	647
													PIN 15 648	PIN 16 2470
Q504	INF	INF	INF	2880	2930	2890	0	0	3230	3270	3260	1669	165	5970
													PIN 15 5970	PIN 16 4580
Q601	3600	8740	8160	1559	0	386	4620	7930	8610	23K	3120	0	INF	33K
													PIN 15 589	PIN 16 260
Q602	623	260	INF	0	15K	2690	3880							
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q203	3130	1612	1157		Q401	0	2100	6000(1)		Q603	120	938	50K	
Q204	220	7490	2770		Q402	.1	.4	INF(2)		Q801	50K(1)	50K(1)	INF(2)	
Q205	1077	2770	62		Q403	29.5	17K	10K(1)		Q802	5000(1)	5000(1)	INF(2)	
Q301	1649	57K	2200		Q404	10K(1)	12K(1)	1000		Q803	12K	7000	50K(1)	
Q307	14K	13K	INF(2)		Q505	1295	5600	50K		Q805	5000(1)	INF(2)	50K(1)	
Q308	14K	INF(2)	0		Q507	1285	4300	50K		Q870	INF	INF	INF	
Q353	INF(2)	9400	5230		Q509	1293	5600	50K		Q871	INF	INF	INF	
Q354	10	992	INF(2)											

(1) This reading will vary depending upon the condition of the electrolytic in the circuit.
(2) Reading depends upon polarity of meter connections.

SERVICE INFORMATION

FS CIRCUIT CHECK

The Fail Safe (FS) circuit check is indispensable for the final check in the servicing. Checking should be done following the steps below.

1. Turn the power switch on and adjust customer controls for normal operation.
2. Temporarily short TP-R and TP-X on FS board with a jumper wire. Raster and sound will disappear.
3. The receiver must remain in this state even after removing the jumper wire. This is the evidence that the FS circuit is functioning properly.
4. To obtain a picture again, temporarily turn the receiver off and allow 30 seconds to reset the FS circuit to stand-by state. Then turn the power switch on to produce a normal picture.

Courtesy of the Manufacturer

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FOLDER 3

TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptoms.

PICTURE or SOUND

NO PIC, NO SOUND, NO RASTER: Fuse,Power Relay.
 Power Reg,Reg Driver,Error Det,Error Amp,Volt
 Reg,Relay Driver,D801 thru D813,DE01,D871,D872,
 DE41,D404,D381,D061,D401.

NO PIC, NO SOUND, HAS RASTER: Tuner,1st PIF
 (IC101),2nd PIF(IC102).

NO PIC, NO SOUND, HAS SNOW: Tuner,PIF(IC201),
 PIF/AGC(Q201).

NO PIC, HAS SOUND, NO RASTER: Video Amp(Q201),
 2nd/3rd/4th Video Amp,CRT.

NO PIC, HAS SOUND, HAS RASTER: Video Amp(Q201),
 2nd/3rd/4th Video Amp.

HAS PIC, NO SOUND: Sound IF(Q102),Sound IF Amp/
 FM Det/Audio Amp(Q601),Sound Output.

OVERLOADED PICTURE: AGC(IC102).
 LOW OR EXCESSIVE BRIGHTNESS:Video Amp(Q201),
 2nd/3rd/4th Video Amp,Video Picture Amp,D201,
 D204,D205.

SWEEP

NO RASTER, HAS SOUND: Z402,CRT,D432.
 NO RASTER, NO SOUND: Horiz Osc/Predrive/
 Drive/Output,D432,Fail Safe.

NO VERT DEFLECTION: Vert(Q351),Vert Drive/
 Switch/Output,D351,D352,D357,D384,D385.

POOR VERT LIN OR FOLDOVER: Vert Drive/Switch/
 Output,D351,D352,D357,D384,D385.

POOR HORIZ LIN OR FOLDOVER: Horiz Predrive/
 Drive/Output/D432.

NARROW PICTURE: Horiz Predrive/Drive/Output/
 D432.

VERT OFF FREQUENCY: Vert(Q351).
 HORIZ OFF FREQUENCY: Horiz Osc.

SYNC

NO VERT SYNC: Vert(Q351).
 NO HORIZ SYNC: D405,D406,Horiz Osc.
 NO VERT/HORIZ SYNC: Sync Sep.

RASTER

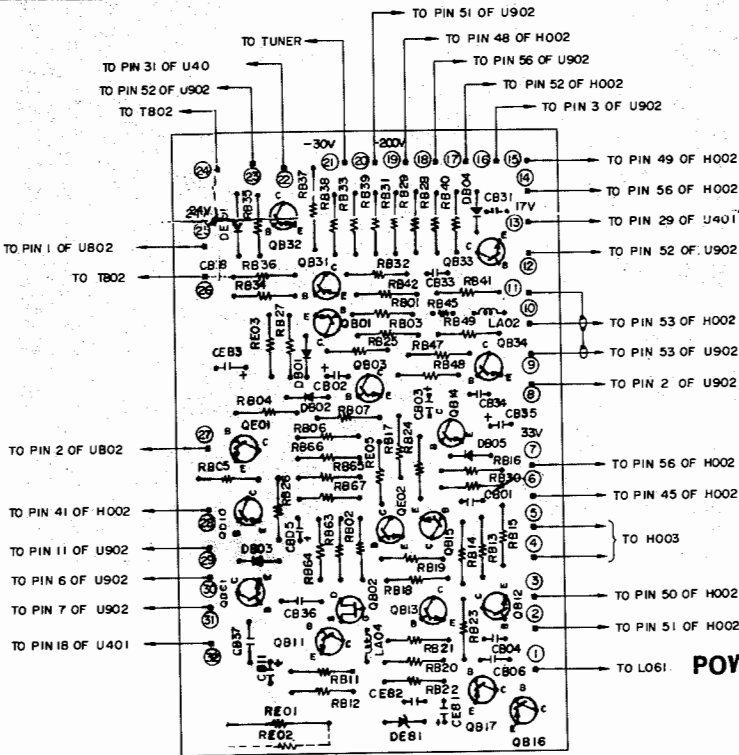
YELLOW (NO BLUE): Bandpass(Q501)Demod Q504,
 D561,Blue Out,CRT.

CYAN (NO RED): Bandpass(Q501),Demod(Q504),
 D561,Red Out,CRT.

MAGENTA (NO GREEN): Bandpass(Q501),Demod(Q504),
 D561,Grn Out, CRT.

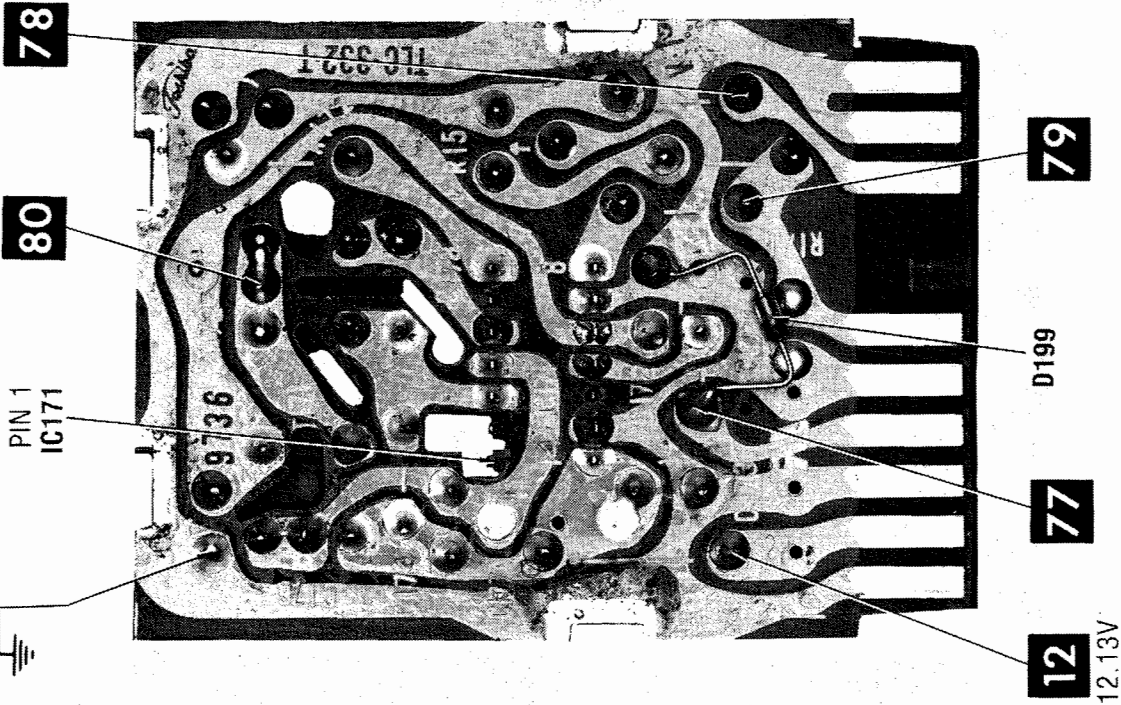
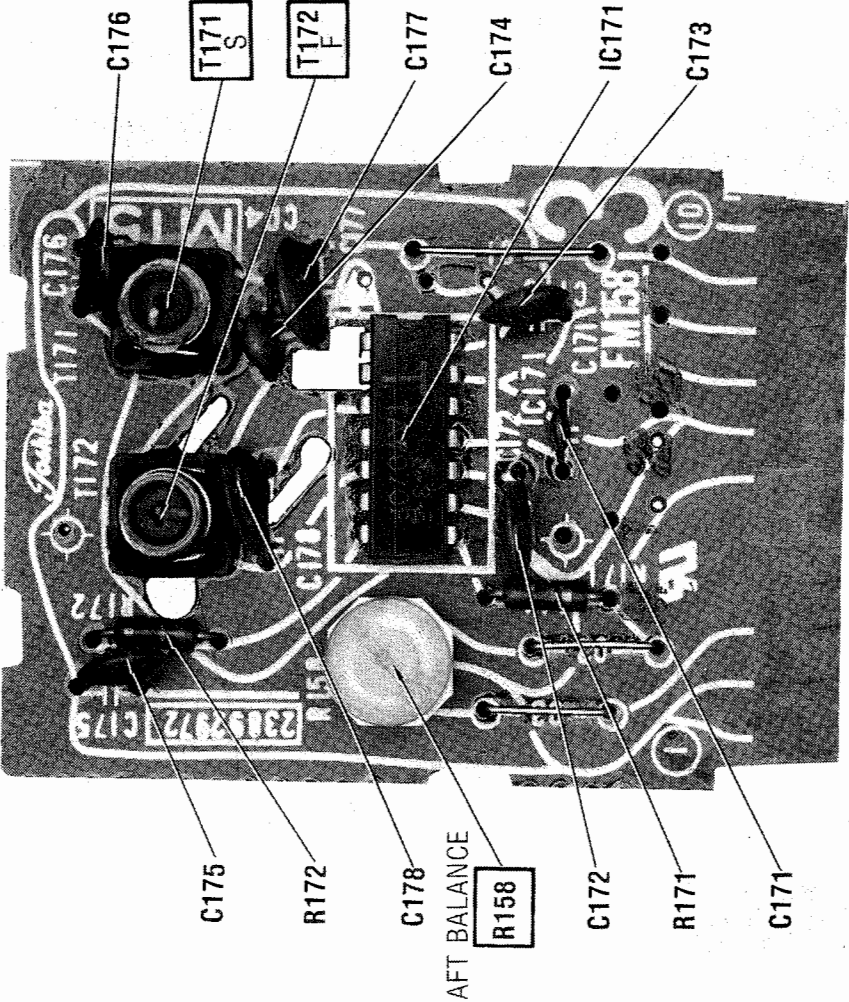
COLOR (B/W operating normally)

NO COLOR: Bandpass(Q501),Demod(Q504).
 WEAK COLOR: Bandpass(Q501),Demod(Q504).
 NO COLOR SYNC: Color Sync(Q502).
 NO GREEN: Bandpass(Q501),Demod(Q504),Grn Out.
 NO BLUE: Bandpass(Q501),Demod(Q504),Blue Out.
 NO RED: Bandpass(Q501),Demod(Q504),Red Out.
 INCORRECT HUE (TINT): Demod(Q504).



POWER-2 BOARD

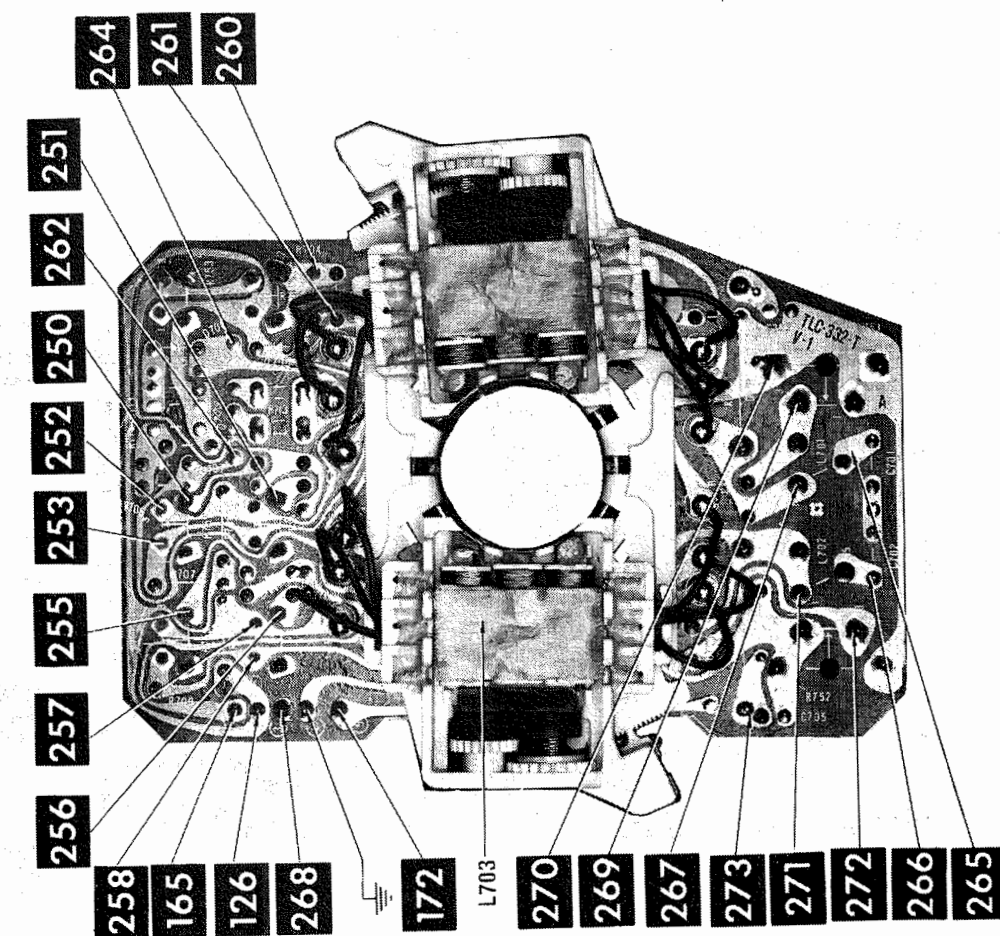
POWER-2 BOARD PW1623
 BOTTOM (FOIL) SIDE



A Howard W. Sams CIRCUITRACE® Photo AFT MODULE

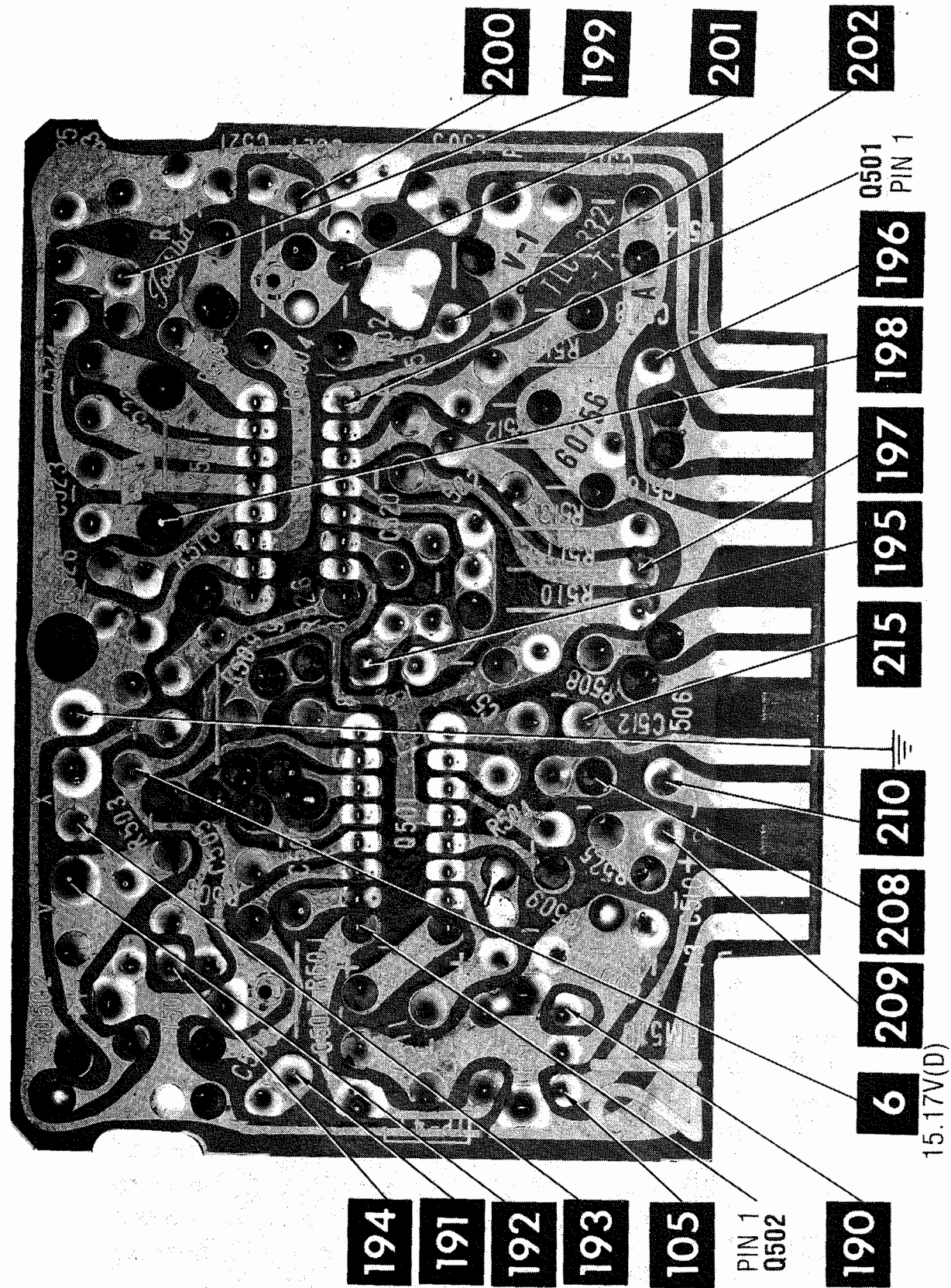
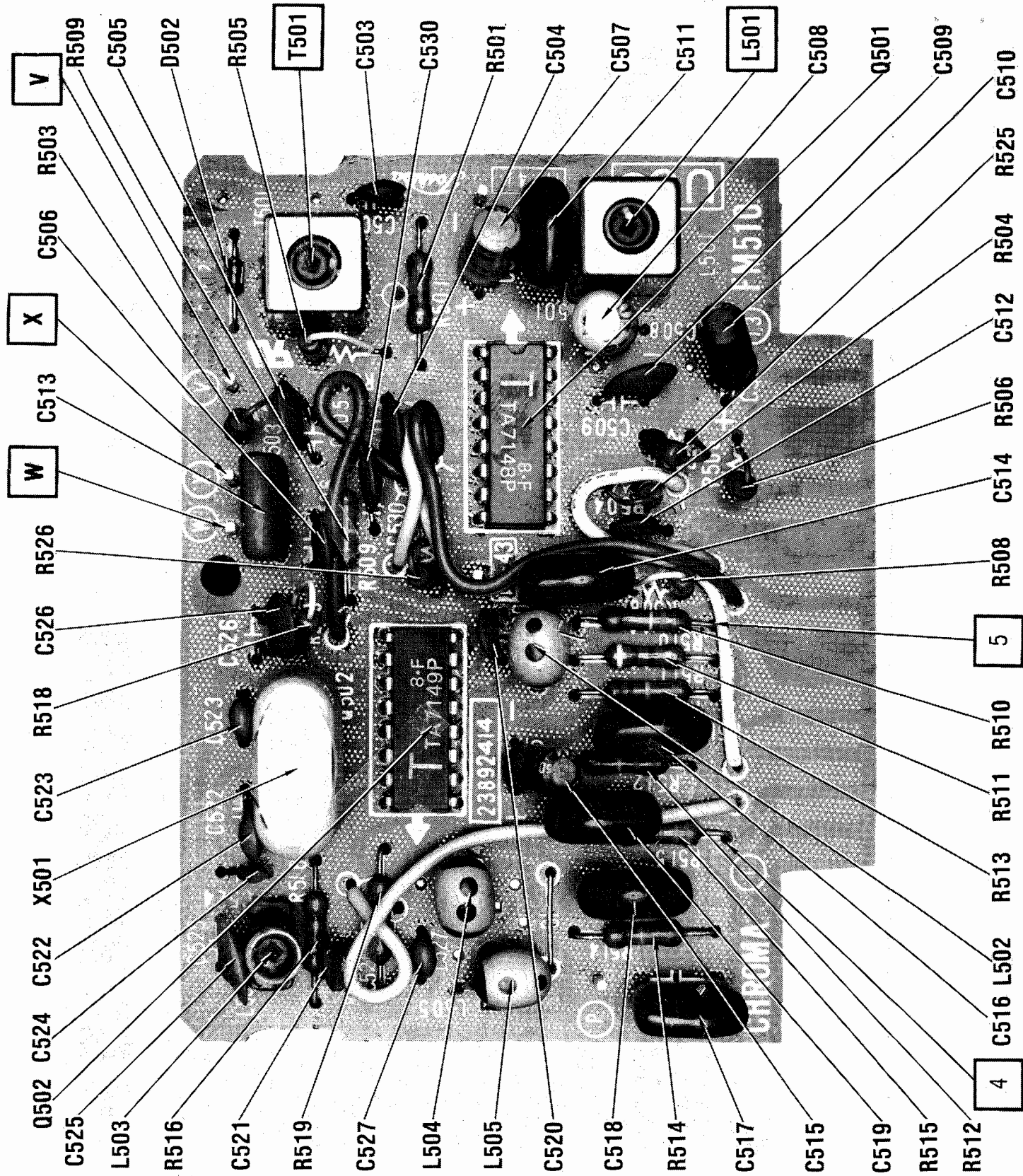
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CHROMA MODULE

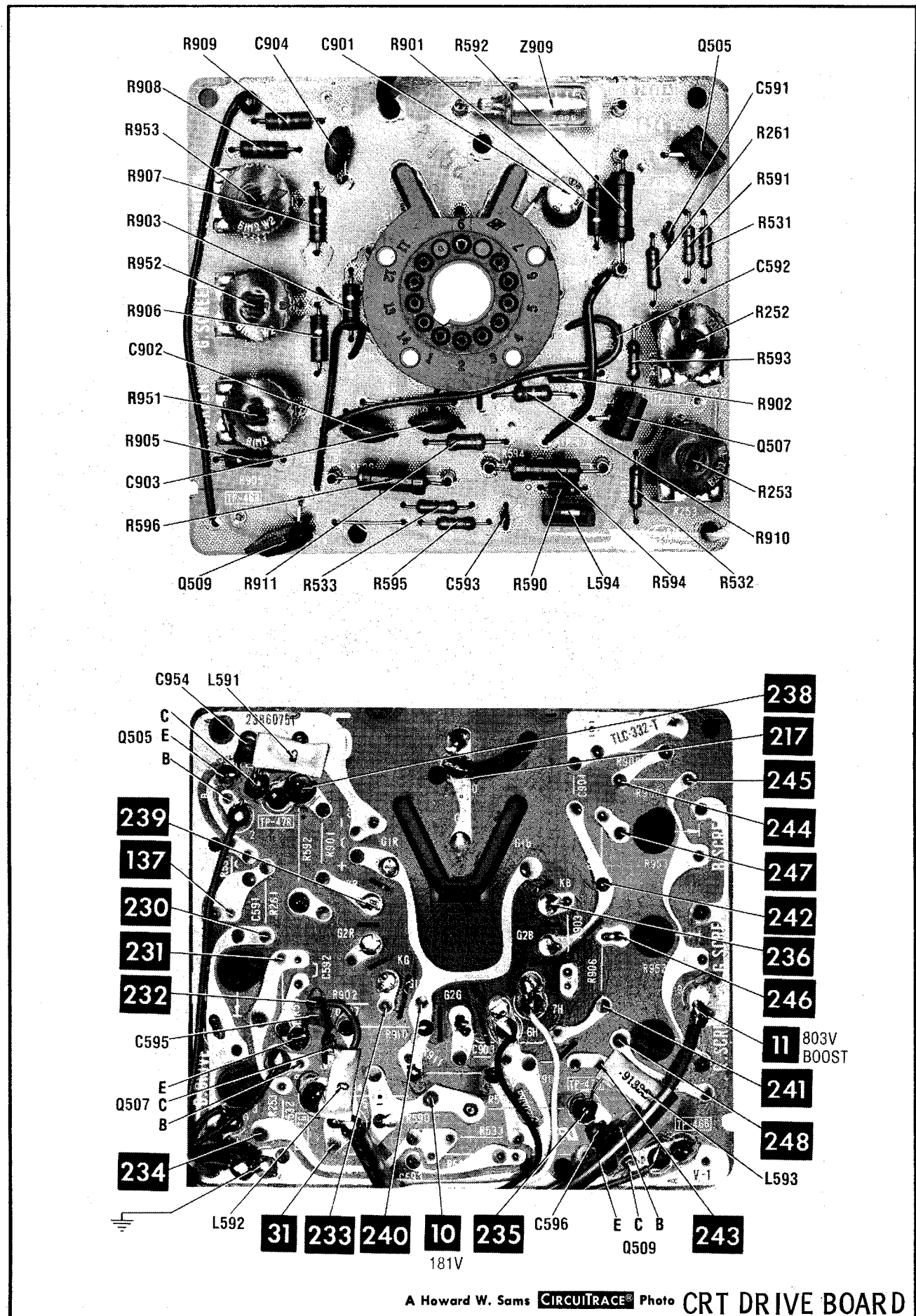
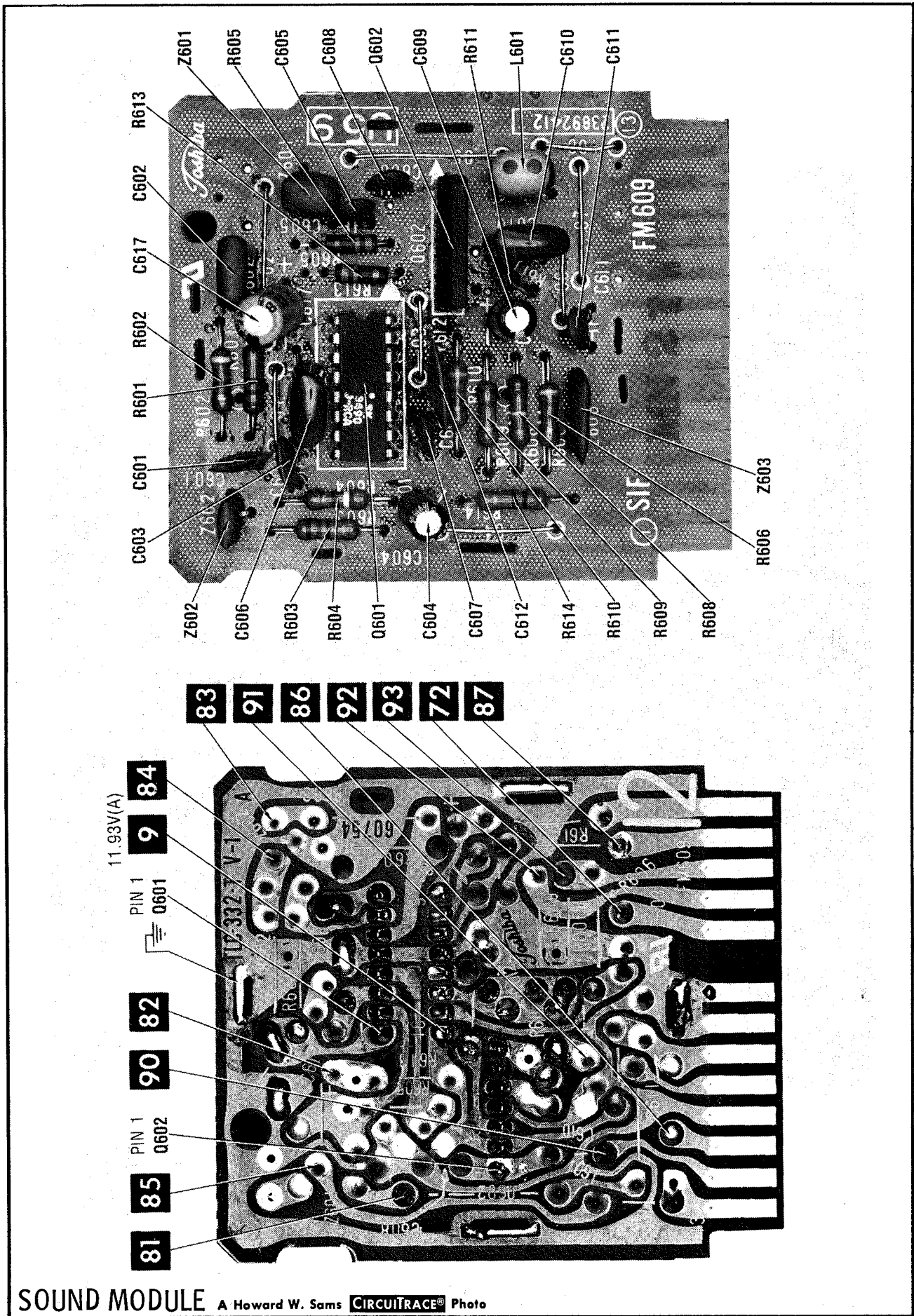


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CHROMA MODULE

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MISCELLANEOUS ADJUSTMENTS

HIGH VOLTAGE CHECK

Connect a high-voltage probe to the picture tube anode. Set contrast and brightness at minimum. High voltage should not exceed 29.4KV

NOTE: There is no high-voltage adjustment on this chassis. Check B+ 105 volt source and adjust for proper high voltage.

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and set all controls for normal operation. Adjust horizontal oscillator (hold) (L401) to a point where it is virtually impossible to lost horizontal sync while switching from channel to channel.

COLOR AND TINT PST ADJUSTMENTS (ABC)

Tune in a station and push (ABC) Switch (S501) to On. Adjust Color PST (R551) and Tint PST (R557) Controls for desired levels.

B+ ADJUSTMENT

Tune in a station and adjust for a normal picture. Connect a DC meter to TP91 (on Power Board) and low side to ground. AC line voltage should be 120 volts AC.

Adjust the 105V Adjustment Control (R851) for a 105 volt reading.

GRAY SCALE ADJUSTMENTS

Turn Color Control to MINIMUM. Disconnect "Raster Tip" on Mother Board. Adjust Red, Green, and Blue Screen Controls to obtain a gray raster at a low brightness level. Reconnect the "Raster Tip". Adjust brightness and contrast to maximum. Adjust the Blue and Green Drive Controls to produce a normal black-and-white picture.

AGC AND AGC DELAY ADJUSTMENTS

Disconnect tuner IF Cable from Picture IF Module (FM102E). Connect DC meter to TP12 on Mother Board. Adjust AGC Control (R151) on Picture IF Module for 5 volts.

Reconnect tuner IF cable and tune in a strong station. Turn AGC Delay Control (R152) on Mother Board fully counterclockwise and then turn clockwise until noise (snow) disappears from the screen.

SUB-BRIGHTNESS ADJUSTMENT

Gray scale tracking must be properly adjusted before proceeding to the sub-brightness adjustment. Turn Brightness and Contrast Controls to maximum. Disconnect IF Input Cable at (TP1).

Connect a VTVM to terminal "Y" and low side to terminal "Z". Adjust Sub-Brightness Control (R257) for +1.33 volts.

SUB CONTRAST ADJUSTMENT

Tune in a color program and place ABC Switch (S501) to On. Adjust Color Control for normal color. Set Contrast and Brightness Controls to mid-click position. Adjust Sub-Contrast Control (R258) for proper contrast.

VERTICAL LINEARITY ADJUSTMENT

To adjust vertical linearity move tip plug to terminal which gives best linearity. (Terminals A, B or C.)

WIDTH ADJUSTMENT

If the picture screen shows poor horizontal width, adjust the core of the Horiz Width Coil (L471) on the Horizontal Output Board to overscan the mask about 10%.

COLOR SYNC ADJUSTMENT

Connect a color-bar generator to the antenna terminals and tune in a color-bar pattern. Set ABC Switch (S501) to Off and adjust Color Control to maximum. Set Tint Control to mid-position. Connect a short jumper from terminal 4 to terminal 5 on Chroma Module. Connect a short jumper from terminal X to terminal W on Chroma Module. Adjust 3.58MHz Oscillator Coil (L503) until color bars stop or slowly drift across the screen.

SIDE PINCUSHION ADJUSTMENT

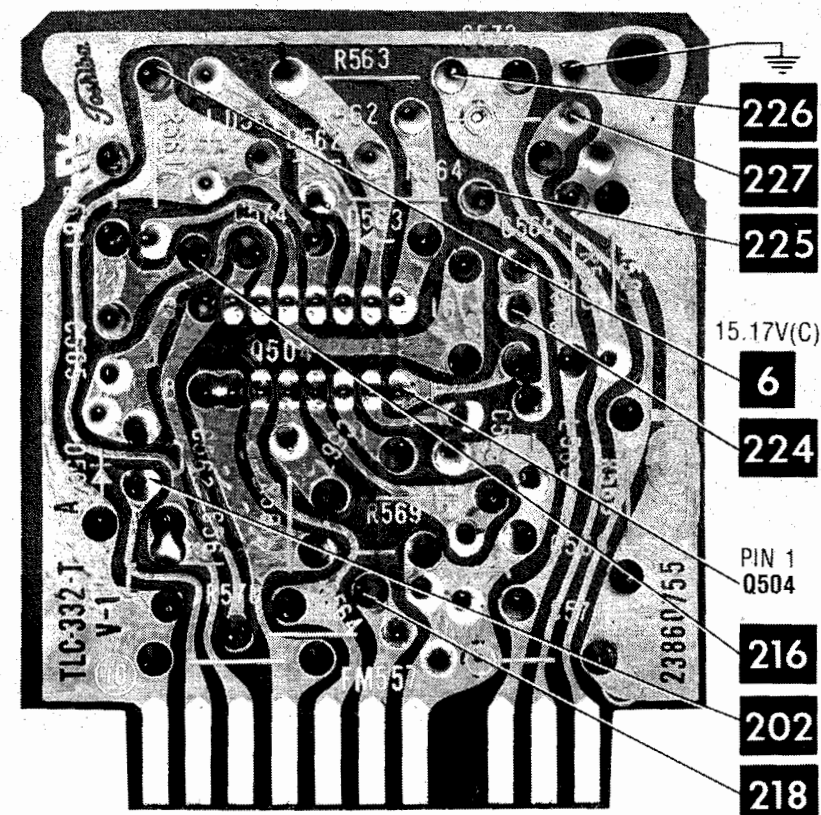
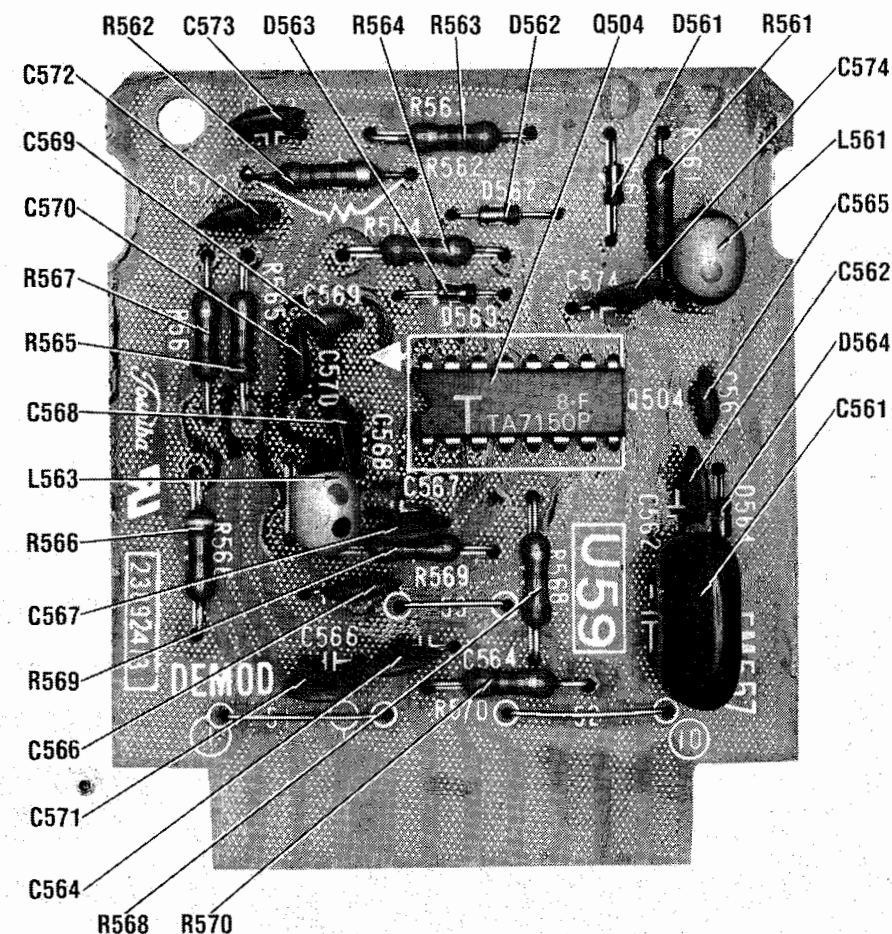
Use a crosshatch pattern. Set Brightness and Contrast Controls to maximum. While observing right and left sides of screen, adjust Side DPC Adjust Control (R454) for straight vertical lines.

TOP AND BOTTOM PINCUSHION

Use a crosshatch pattern. Set Brightness and Contrast Controls to maximum. Adjust DPC Transformer (T371) fully counterclockwise. While observing top and bottom of the screen adjust T/B DPC Phase Coil (L371) to place curvature at center of the screen. Readjust DPC Transformer (T371) to obtain straight horizontal lines.

PURITY ADJUSTMENT

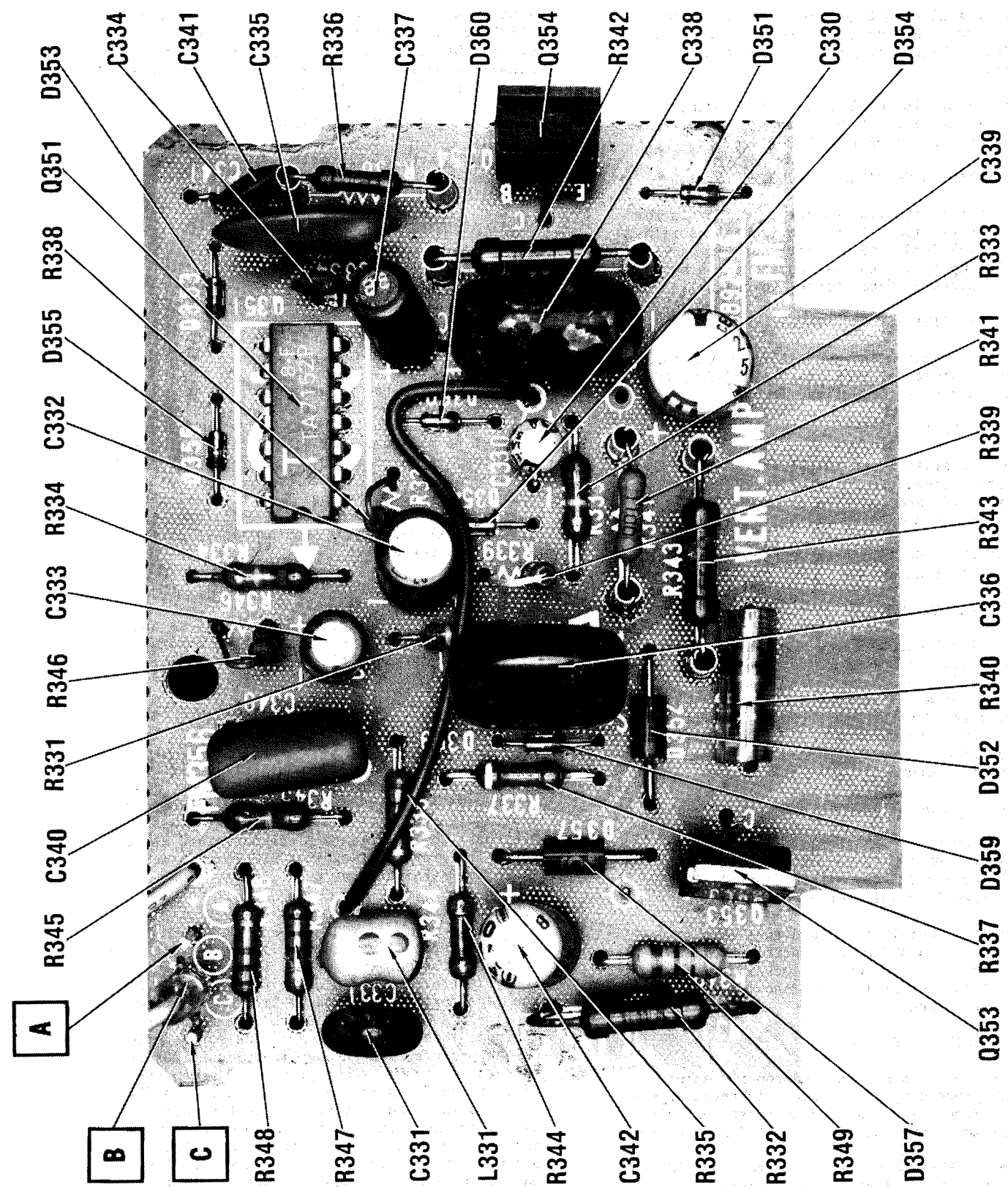
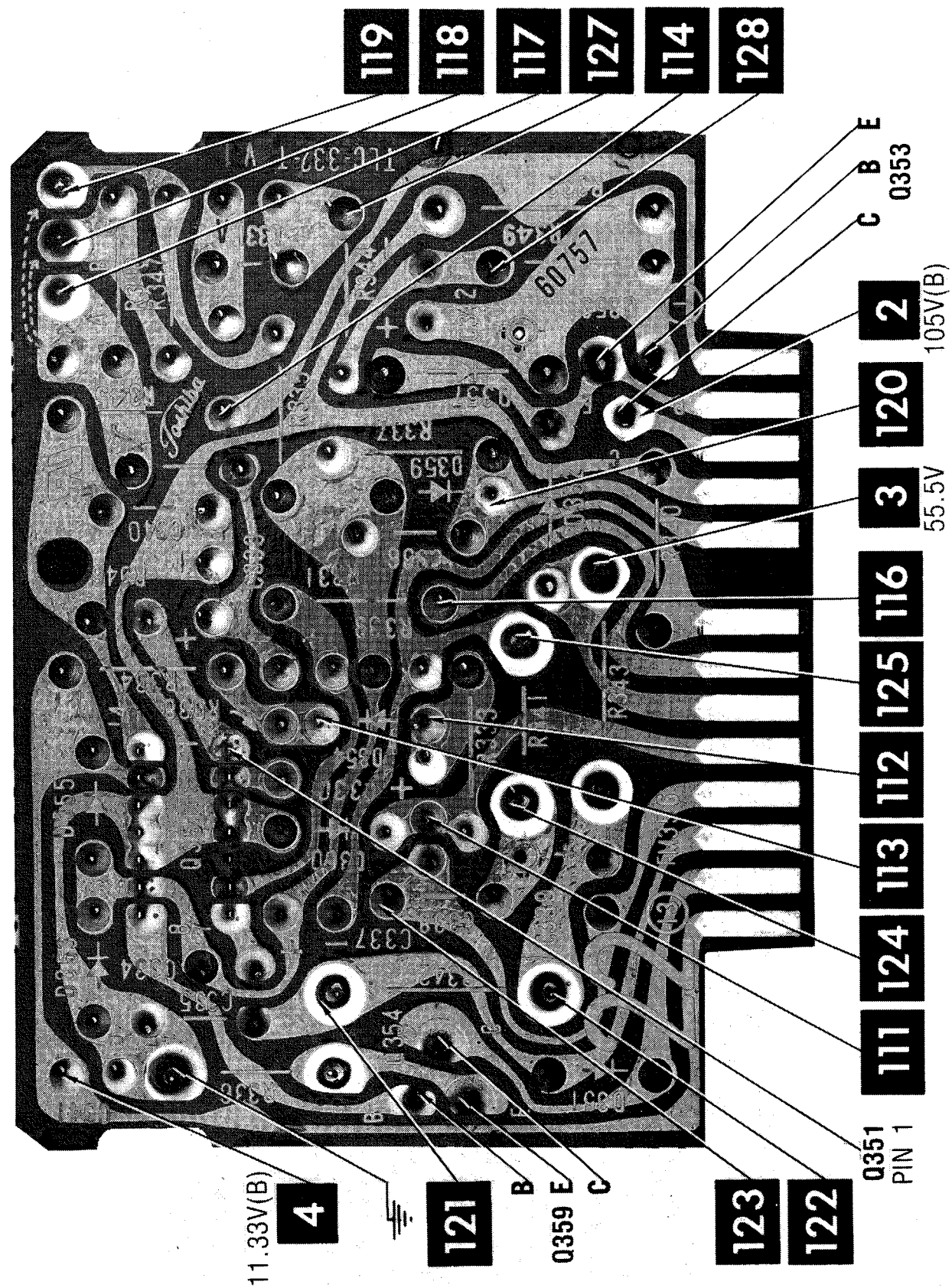
Perform center convergence. If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets. Move the edge purity magnets away from the picture tube. Turn Contrast and Brightness Controls to maximum. Connect the red and blue screen grids of the picture tube through individual 100K resistors to ground. This provides a green raster. Advance the Green Screen Control (R952) on CRT Drive Board if necessary. Loosen the deflection yoke and slide it back to provide a vertical green band in the center area of the picture tube. Adjust the tabs on the purity magnet until a green band is obtained in the center of the screen. Also adjust to center picture vertically on the screen. Slide the deflection yoke forward to obtain a uniform green over the entire picture tube face. If impurity still exists at edges of the screen adjust edge purity magnets to obtain best overall green screen.



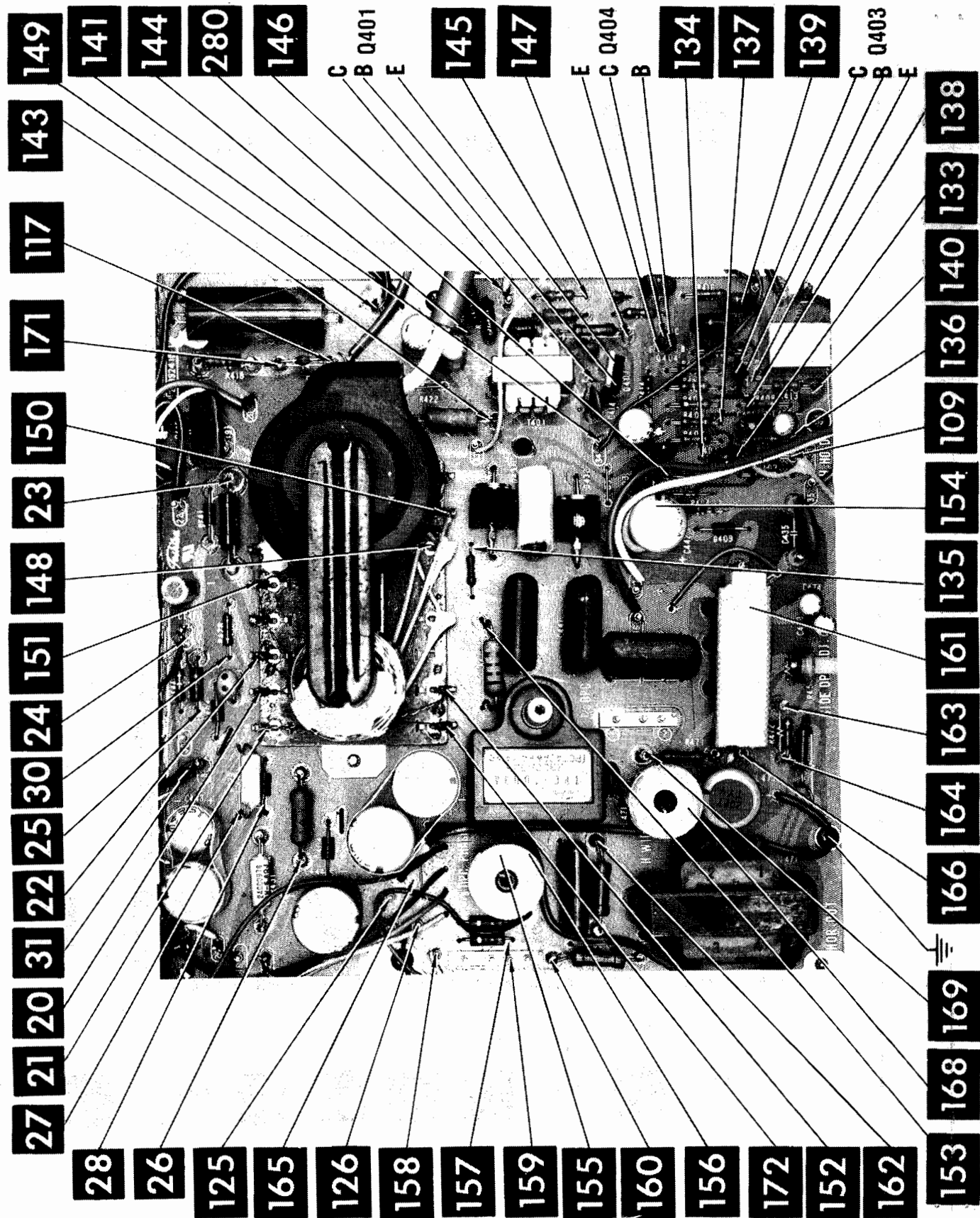
A Howard W. Sams CIRCUITRACE® Photo DEMOD MODLUE

TOSHIBA MODEL
C2100 (Ch. TAC920)

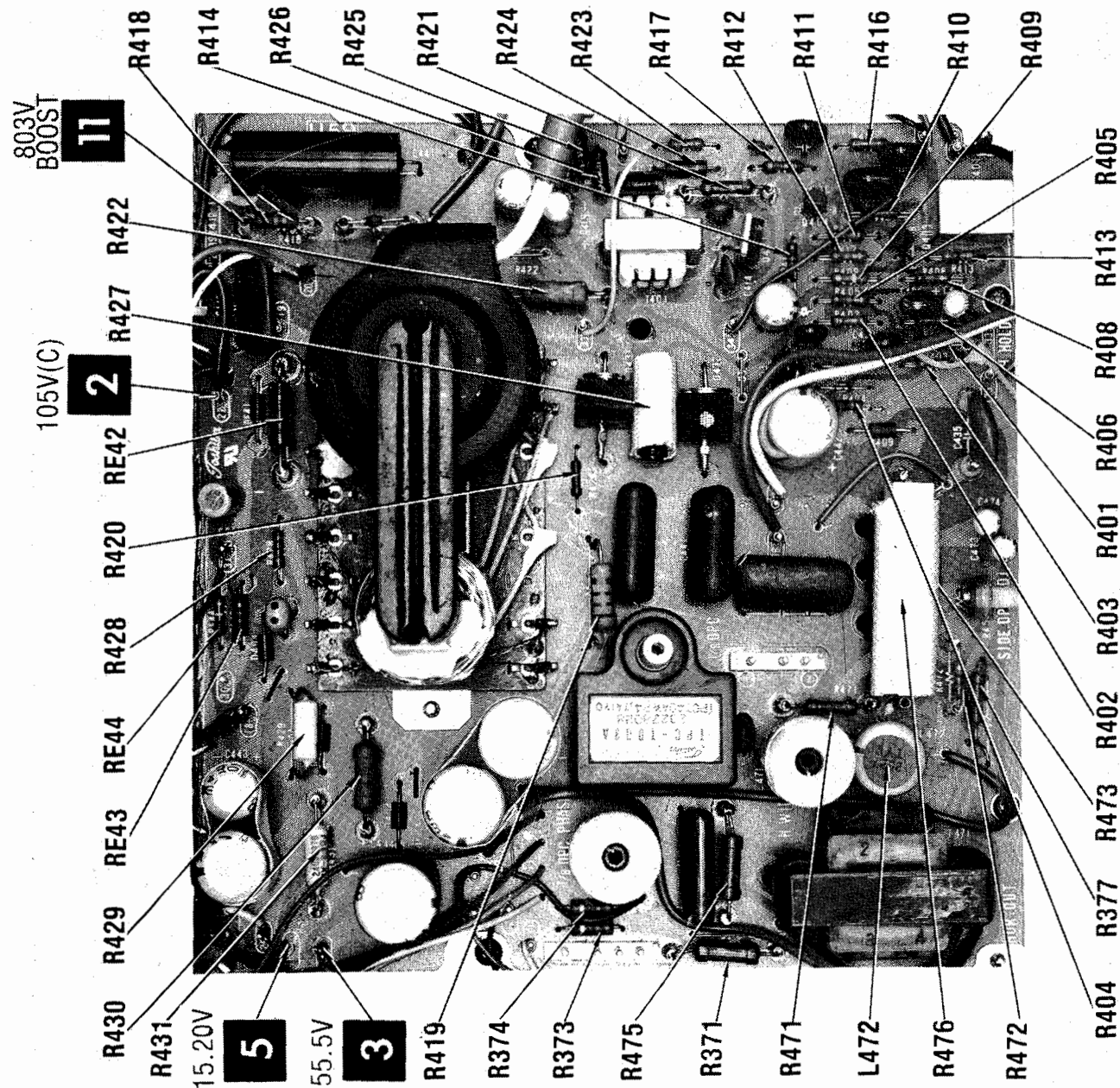
FOLDER 3



HORIZ OUTPUT BOARD

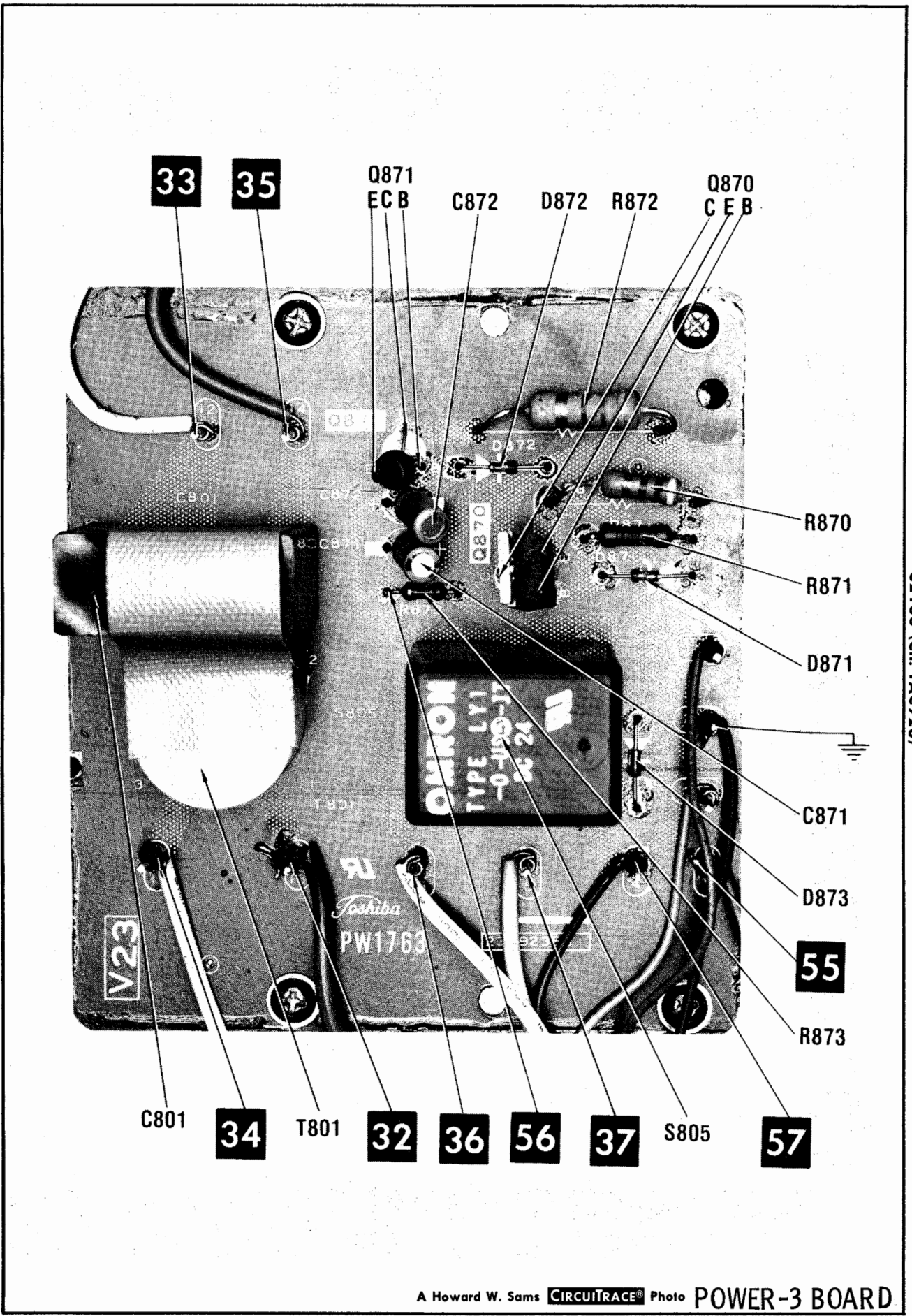
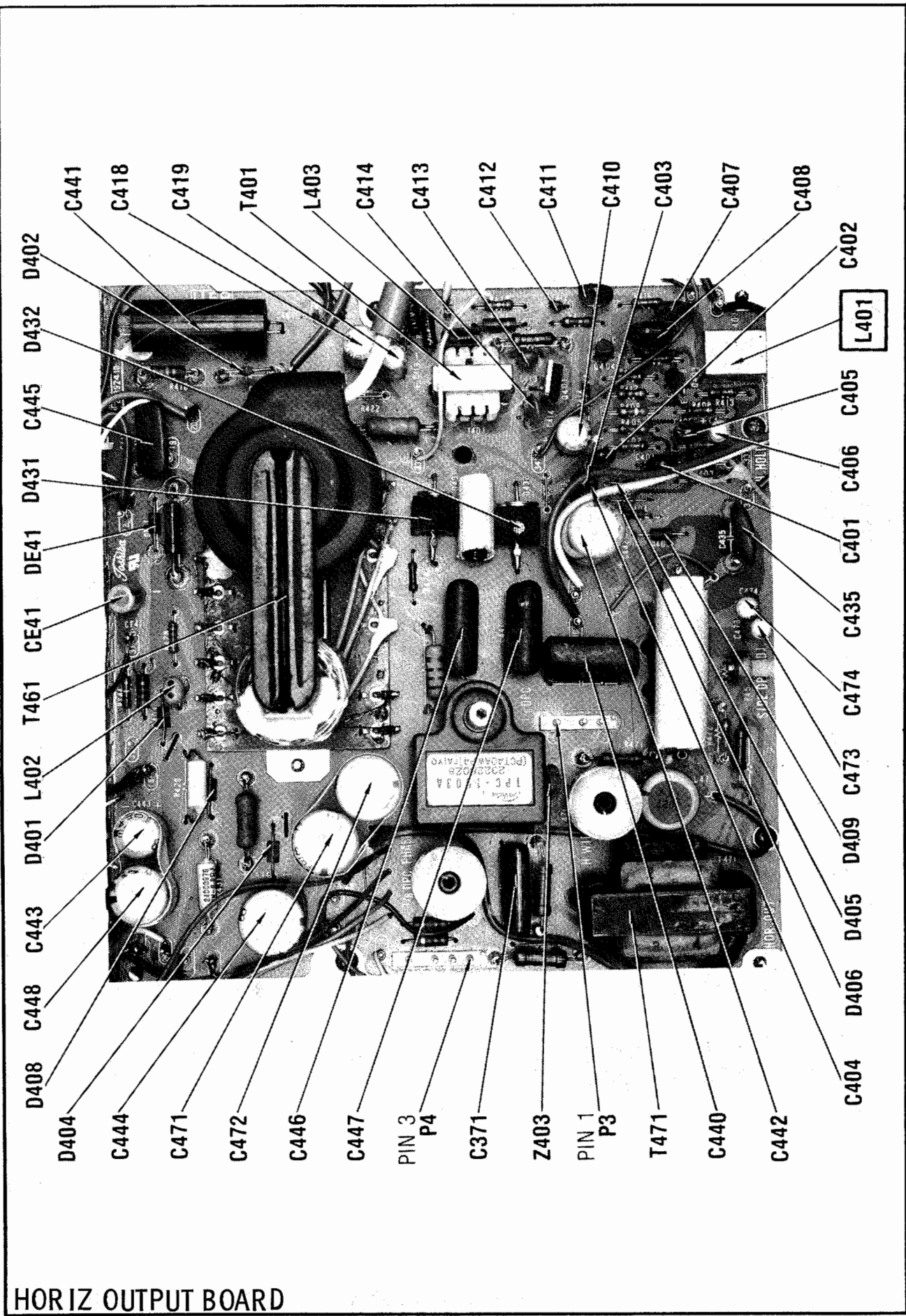


A Howard W. Sams CIRCUITRACE[®] Photo HORIZ OUTPUT BOARD



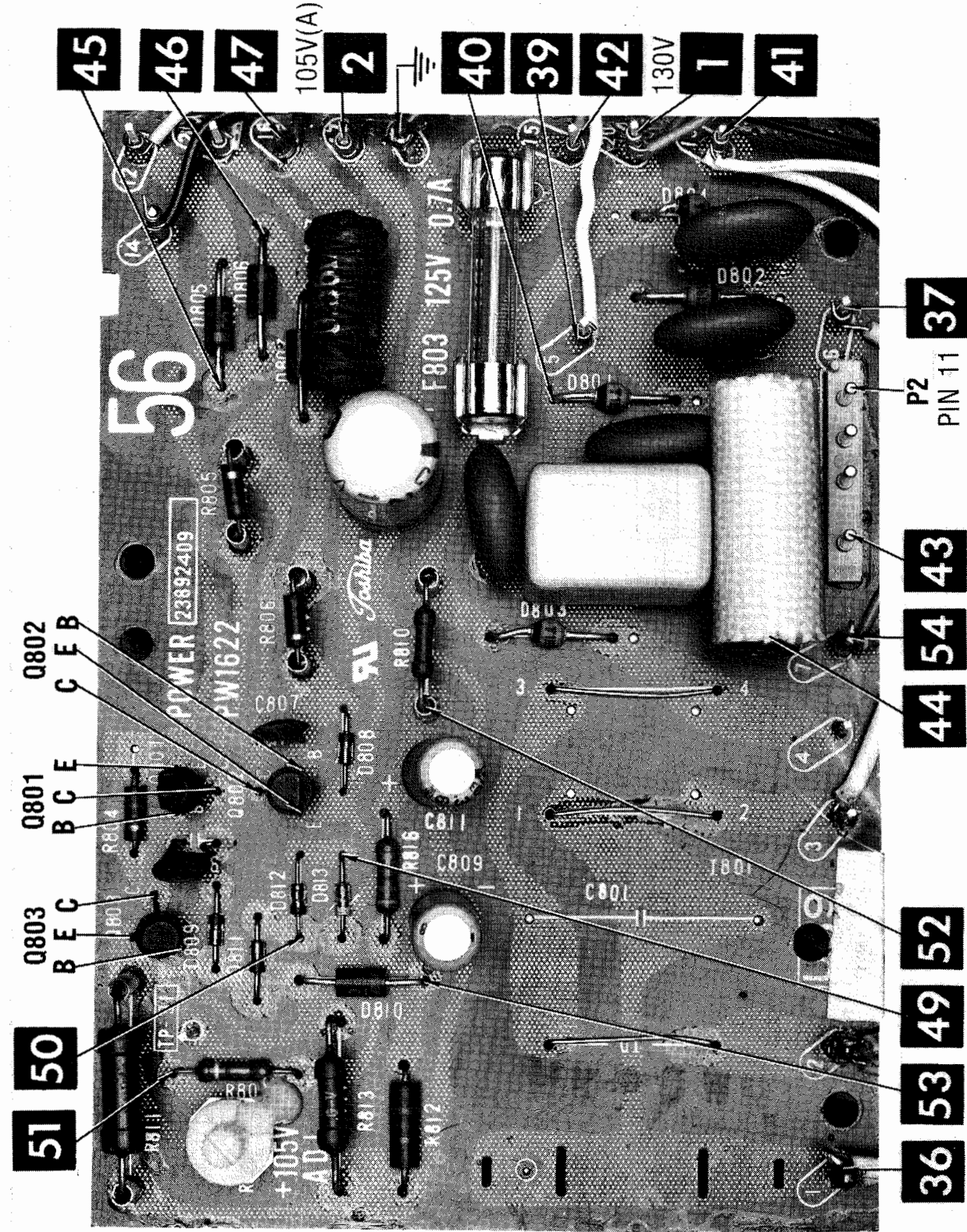
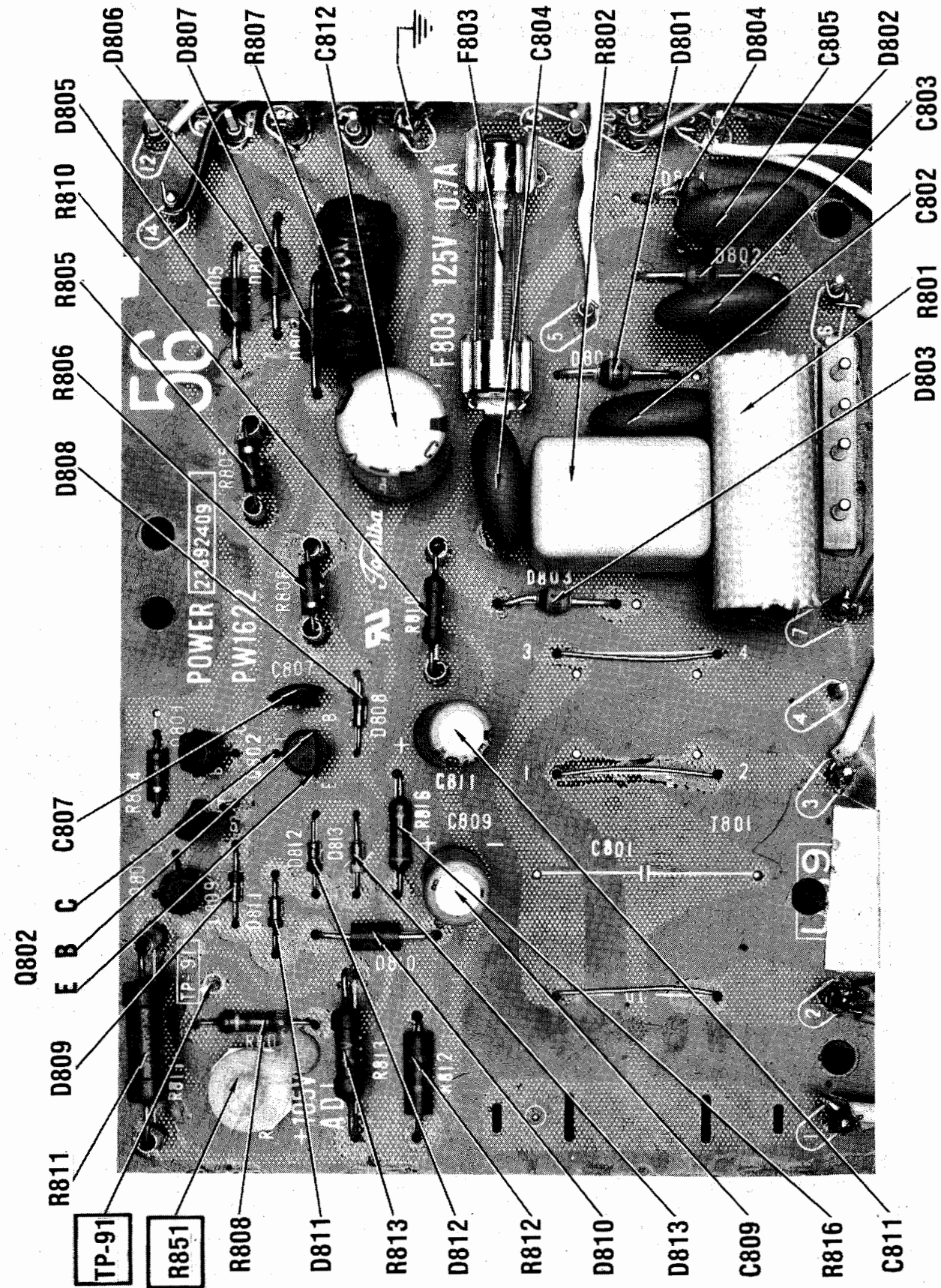
TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3



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POWER-1 BOARD

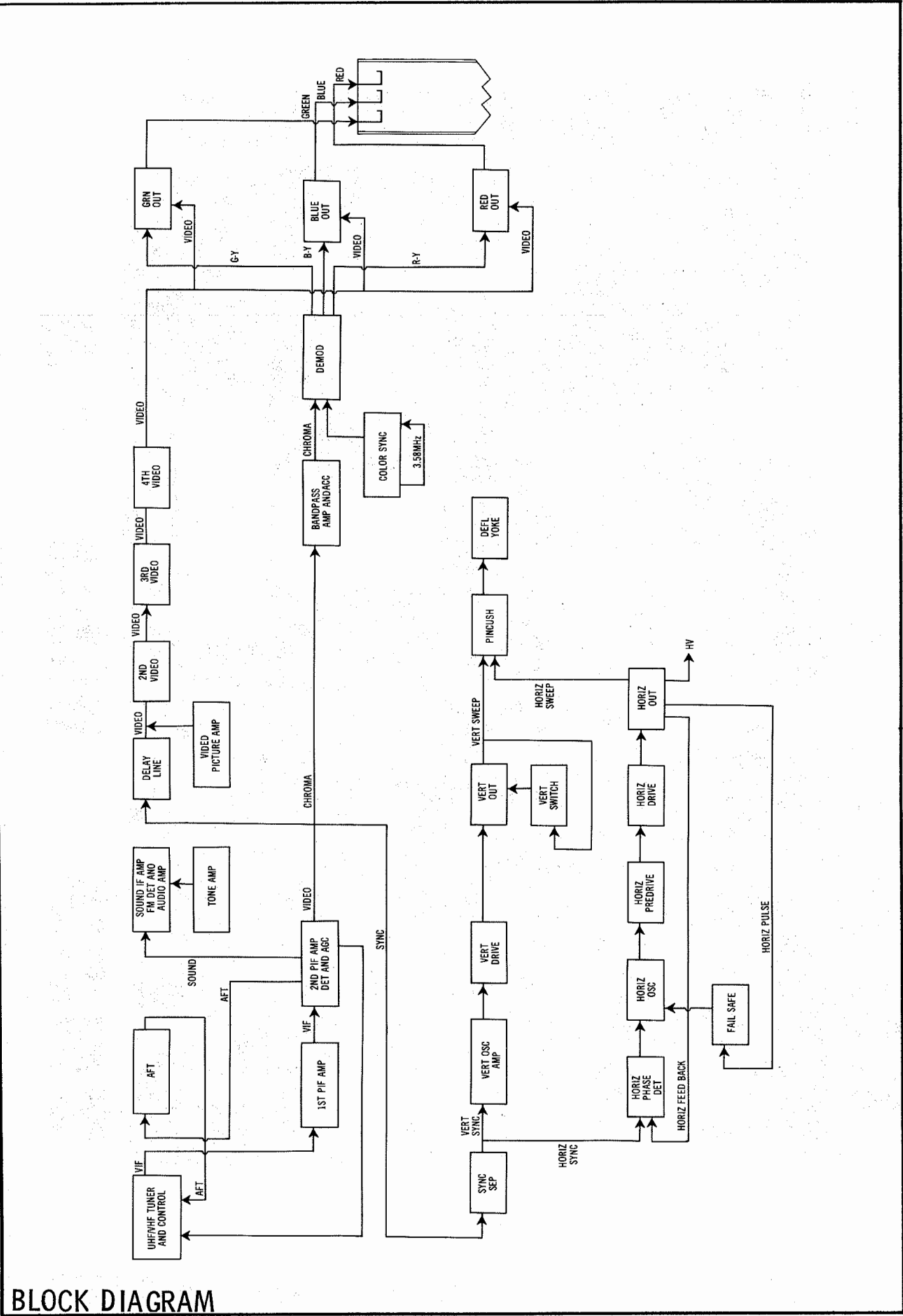


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POWER-1 BOARD

TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3



BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)
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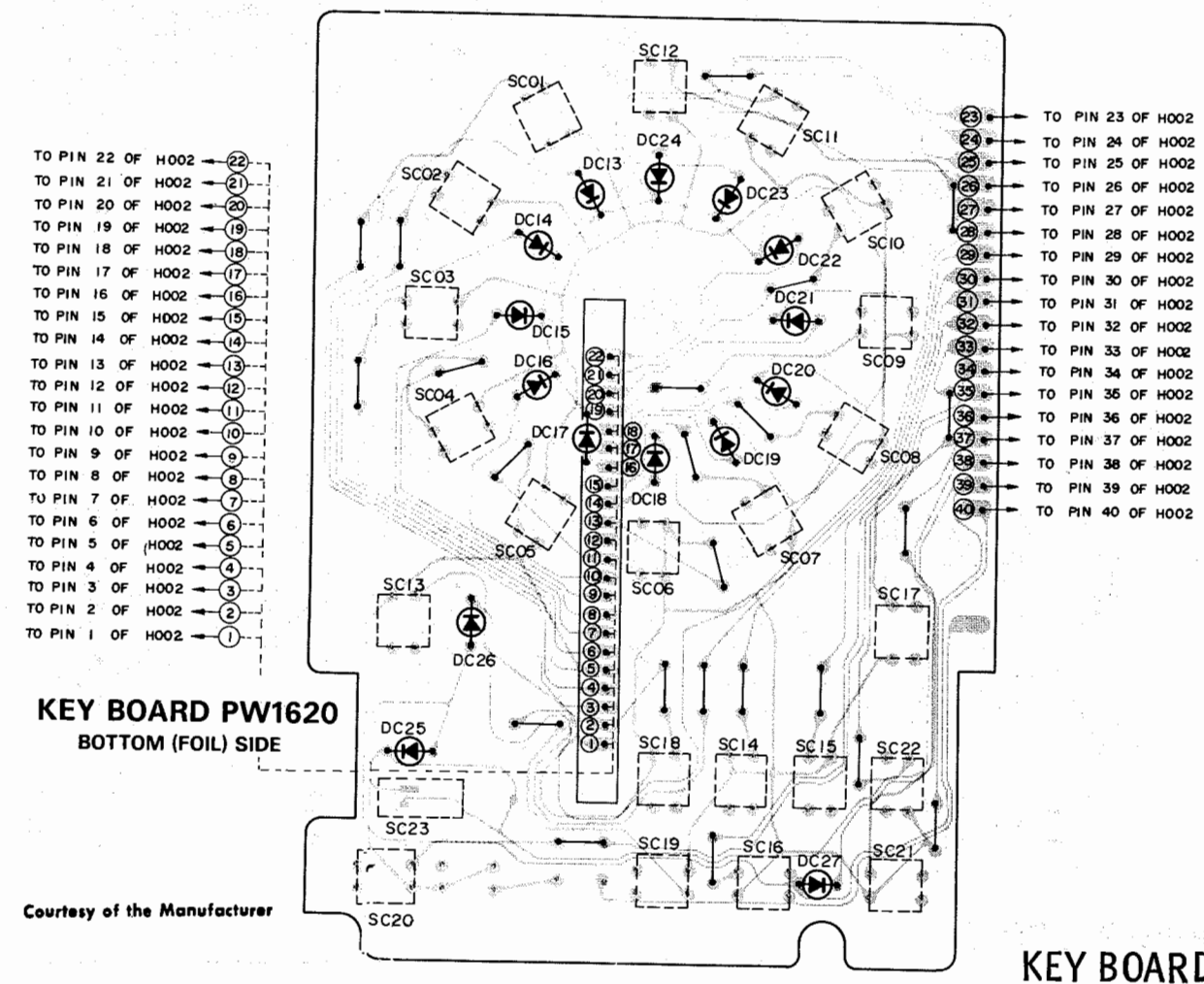
MISCELLANEOUS (cont)

ITEM No.	PART NAME	PART No.	NOTES
V901K	Magnet	23102999	Edge Purity (MAG4001)
X501	Crystal	23153004	3.58MHz
Z403	Spark Gap	23140607	700V-1500V
Z601	Filter	23107001	4.5MHz Ceramic
Z602	Filter	23100228	4.5MHz Ceramic
Z603	Component Combination	23134223	R.C. Network
Z909	Spark Gap	23140697	8KV
#	Earphone	23152007	
#	P.C. Board	23149152	Horizontal Output PW1621 (U401)
#	P.C. Board	23149144	Sub Horiz Board PW1629 (U402)
#	P.C. Board	23149145	Convergence PW1628 (U701)
#	P.C. Board	23149151	Power PW1622 (U801)
#	P.C. Board	23139918	Power-3 PW1763 (U802)
#	P.C. Board	23149150	Power-2 PW1623 (U809)
#	P.C. Board	23149149	CRT Drive PW1624 (U901)
#	P.C. Board	23149148	Mother PW1625 (U902)
#	P.C. Board	23149143	Fail Safe PW1630 (U970)
#	P.C. Board	23149147	Control PW1626 (U503)
#	P.C. Board	23149155	Selector PW1618 (H002)
#	P.C. Board	23149154	Tuning PW1619 (H003)
#	P.C. Board	23145830	Key PW1620 (H004)
#	Tuner UHF/VHF	23121932	EL111(H001)

For SAFETY use only equivalent replacement part.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Cabinet	23821612	Control Panel	23814611
Back Cover without CRT Cover	23822763	Door, Lower	23803592
CRT Cover (Back)	23823399	Door, Upper	23803594
Battery Box	23805954	Knob-Main Power/Volume,ABC/Contrast	23826562
Cover Battery Box	23832903		



KEY BOARD PW1620
 BOTTOM (FOIL SIDE)

Courtesy of the Manufacturer

TOSHIBA MODEL
 C2100 (Ch. TAC920)

KEY BOARD 3

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T661	1152	8	23216989 TSB1019(1) (TSP1019)			# For SAFETY use only equivalent replacement part. (1) Number on unit.
		SEC. 2				
		11.52				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T802	102VAC @ .06AAC	25.3VAC @ .064ADC	23213949 TPW1102(1)			# For SAFETY use only equivalent replacement part. (1) Number on unit.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
# T803	120V AC @ 1.4AAC	102V AC @ .84ADC	23213359 TPW1114A(1)			# For SAFETY use only equivalent replacement part. (1) Number on unit.
	SEC. 2	SEC. 3				
	6.5VAC @ .72AAC					

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
			MFGR. PART No.	QUAM PART No.	
# W661	5" PM	8 Ohms	23151891		
# W662	2" PM	8 Ohms	23151151		

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
# F801	3A @ 125V Slow-blow Pigtail	23144926		MDV3		315003		
# F803	.7A @ 125V Slow-blow	23144931	23165081	MDL7/10	1A1907-02	313,700	102068	

#For SAFETY use only equivalent replacement part.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CR1	Component Combination		Antenna Isolation
CR2	Component Combination		Antenna Isolation
G891	Neon Lamp	23113004	On/Off Indicator (NE-2C)
G892	Neon Lamp	23113004	ABC Indicator (NE-2C)
L901	Degaussing Coil	23200929	
P201	Antenna Terminal Board	23142884	AT680S
P601	Socket	23163868	13 Pin Module
P605 thru P607	Socket	23163869	10 Pin Module
P861	AC Cord	23176299	
P981	Jack	23163979	Earphone
S111	Switch	23145198	AFT (On/Off)
S501	Switch	24060971	ABC (On/Off) Part of Contrast Control
S801	Switch	24056998	Power (On/Off) Part of Volume Control
S805	Relay	23146992	Power TSB4005
SE01	Switch	23145964	Battery Box
V901	CRT	560BM822(Y)	
# V901A	Socket	23116955	CRT

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

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WIRING DATA

High Voltage Lead	Use BELDEN No. 9867 (30 KV)
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421 (Single-Conductor)
	8208 (Two-Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8528 (Solid) Available in 13 Colors
	8522 (Stranded) Available in 13 Colors
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
75-Ohm Tuner Input Lead	Use BELDEN No. 8241
300-Ohm Antenna Lead-in	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) 4-Conductor
	8485 (Round) 5-Conductor
	8488 (Round) 8-Conductor

MODULES/PLUG-IN BOARDS

ITEM No.	PART NAME	MFGR. PART No.	NOTES
FM102E	Module	23148865	Picture IF (U101)
FM158	Module	23148866	AFT (U102)
FM208	Module	23148817	Video (U201)
FM356	Module	23148816	Vertical (U301)
FM510	Module	23148815	Chroma (U501)
FM557	Module	23148814	Demodulator (U502)
FM609	Module	23148813	Sound (U601)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFGR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D061	02Z24A	A7288500		ZM24B		SK3797/5031A	ECG5031A	TM5031	WEPI433/5031	103-212
D171	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D199	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D201	1S1554 (TV)	A7246653	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D204	1S33	A7001800	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEPI34/109	103-29001
D205	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D282	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D283	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D284	1S1553 (TV)	A7246602	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D301	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D351	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D352	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEPI56	212-76-02
D353	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D354	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D355	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D357	1S1886	A7568615	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEPI56	212-76-02
D359	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D360	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D381	02Z11A	A7287300		ZM11B		SK3786/5020A	ECG5020A	TM5020	WEPI421/5020	103-279-20
D384	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D385	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D386	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
# D401	1S1832	A7568200	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEPI72/506	103-287
# D402	ERB26-20	23115965	GE-530		REN 525	SK3925/525	ECG525	TM525	WEPI77/525	103-29010
	1TH61	A7579500	GE-530		REN 525	SK3925/525	ECG525	TM525	WEPI77/525	103-29010
D404	1S1835	A7568300	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEPI72/506	103-287
D405	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D406	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131
D408	1S1835	A7568300	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEPI56	212-76-02
D409	1S1835	A7568300	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEPI56	212-76-02
# D431	1GH11F-FA	A7509151	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEPI72/506	103-287
	S-15F	23115998	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEPI72/506	103-287
# D432	TD-15H	23115963	GE-511	PTC216	REN 506	SK3130	ECG551	TM551	WEPI72/506	103-287
	1S2712F-FA	A7582052	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEPI72/506	103-287
D502	1S1555 (TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEPI062/177	103-131

TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)
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SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							REMARKS
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	
D561	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D562	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D563	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D564	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D581	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D582	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D701	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D702	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D704	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D705	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D706	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D707	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D708	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D709	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D710	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D711	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D712	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D713	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
# D801	1R56261	A7580110	GE-510	PTC205	REN 125	SK3081/125	ECG125	TM125	WEP170/125	212-29000
# D802	1R56261	A7580110	GE-510	PTC205	REN 125	SK3081/125	ECG125	TM125	WEP170/125	212-29000
# D803	1R56261	A7580110	GE-510	PTC205	REN 125	SK3081/125	ECG125	TM125	WEP170/125	212-29000
D804	1R56261	A7580110	GE-510	PTC205	REN 125	SK3081/125	ECG125	TM125	WEP170/125	212-29000
D805	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D806	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D807	1S1885	A7568521	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D808	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D809	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D810	1S1942	A7572200	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D811	5S130-D	A7950251	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D812	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
# D813	02Z6.2W	A7286120	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D871	05Z24L	A7110652	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D872	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D873	1S1553(TV)	A7246602	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D891	1S1553(TV)	A7246602	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D892	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D893	1S1555(TV)	A7246711	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
DE01	1S1941	A7572100	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
# DE41	1S1835	A7568300	GE-511	PTC216	REN 506	SK3843/506	ECG506	TM506	WEP172/506	103-287
IC101	TA7124P	B0311402	GEIC-105		REN 1128	SK3488/1128	ECG1128	TM1128		
IC102	TA7124P	B0311405	GEIC-105		REN 1128	SK3488/1128	ECG1128	TM1128		
IC171	TA7145P	B0313300	GEIC-106		REN 1134	SK3489/1134	ECG1134	TM1134		221-29050
Q201	TA7134P	B031220A	GEIC-149	PTC754	REN 1004	SK3365/1004	ECG1004	TM1004	WEP2123/1004	221-29022
Q202	TA7135P	B031230A								
Q203	2SA495-0	A650235G	GE-221*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159**	WEP495	121-29003*
Q204	2SA495Y	A650232E	GE-221*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159**	WEP495	121-29003*
Q205	2SC372-0	A670720K	GE-61*	PTC121*	REN 123A*	SK3245/199	ECG123A*	TM123A**	WEP372	121-29000A*
Q301	2SA950-0	A653292I	GE-244*	PTC142*	REN 129*	SK3841/294	ECG129*	TM129*	WEP60/129*	121-29005*
Q307	2SC2073	A6319500	GE-221*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159**	WEP495	121-29003*
Q308	2SA940	A6532300			REN 291	SK3440/291	ECG291	TM291	WEP780/291	121-29047
Q351	TA7152P	B0314000			REN 292	SK3441/292	ECG292	TM292	WEP781/292	121-29048
Q353	2SC2073	A6319500			REN 291	SK3219	ECG375	TM375	WEP780/291	121-29047
Q354	2SC1447	A678760A	GE-251	PTC907	REN 198	SK3219	ECG198	TM198	WEP779/198	121-29028
Q401	2SC1569	A678970H	GE-251	PTC907	REN 198	SK3219	ECG198	TM198	WEP779/198	121-29028
# Q402	2SC1172B	A6771580	GE-38	PTC129A	REN 238	SK3710/238	ECG238	TM238	WEP764/238	121-29001
Q403	2SC372Y	A670729B	GE-61*	PTC121*	REN 123A*	SK3245/199	ECG123A*	TM123A**	WEP372	121-29000A*
Q404	2SA95Y	A650232E	GE-221*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159**	WEP495	121-29003*
Q501	TA7148P	B0313600	GEIC-109		REN 1131	SK3286/1131	ECG1131	TM1131		221-29117

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)
Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L061	RF Choke	23261035	AZ9146F		
L102	RF Choke (2.3uH)	23261052	AZ9246F		
L103	RF Choke (3.7uH)	23261051	AZ9246E		
L104	RF Choke (1.2uH)	23261054	AZ9246H		
L105	RF Choke (10uH)	23261053	AZ9246G		
L106	RF Choke (3.7uH)	23261051	AZ9246E		
L201	Peaking (62uH)	23252885	TRF9222		
L202	Peaking (56uH)	23283560	TRF4560J		
L331	Peaking (6800uH)	23284682	TRF4682K		
# L402	Peaking	23284102	TRF4102K		
L403	RF Choke	23221084	TLN1019		
L481	Peaking (100uH)	23221026	AZ9004Y		
L482	Peaking (100uH)	23221026	AZ9004Y		
L501	Chroma Take-off	23274993	TRF5010		
L502	Peaking (220uH)	23283221	TRF4221J		
L503	3.58MHz Osc	23272995	TRF5002B		
L504	Peaking	23283101	TRF4101J		
L505	Peaking	23283180	TRF4180J		
L561	Peaking	23283470	TRF4470J		
L563	Peaking (56uH)	23252458	TRF4560G		
L581	Peaking (3300uH)	23283332	TRF4332J		
L591	RF Choke (5uH)	23261018	AZ29132C	74F476AP	
L592	RF Choke (5uH)	23261018	AZ29132C	74F476AP	
L593	RF Choke (5uH)	23261018	AZ29132C	74F476AP	
L594	Peaking	23252889	TRF2008		
L601	RF Choke (3.3uH)	23284339	TRF4339K		
L681	RF Choke	23261048	AZ9246B		
L891	RF Choke	23261034	AZ9146E		
L892	RF Choke	23261022	AZ9004E		
T1	Balun (VHF)				
T2	Balun (UHF)				
T101	47.25MHz Trap	23262979	TRF1207		
T102	41.25MHz Trap	23262988	TRF1013		
T103	39.75MHz Trap	23262987	TRF1014		
T104	Video IF	23262928	TRF1212		
T105	Video IF	23262927	TRF1213		
T106	Video IF	23262926	TRF1214		
T107	Video IF	23262925	TRF1215		
T108	41.25MHz Trap	23262224	TRF1003		
T109	Video IF	23262924	TRF1216		
T141	Video Trap	23252196	TRF2005A		
T171	AFT	23264979	TRF1217		
T172	AFT	23264981	TRF1425		
T501	Chroma Bandpass	23274998	TRF5008		
# T801	Line Filter	23211997	TRF3004C		
X201	Delay Line	23250994	TRF2012		

#For SAFETY use only equivalent replacement part.

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	CURRENT (Measured)	INDUCTANCE (0 CURRENT 1000~)	MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
# L461	.340A0C	2.5	10.4mH	23229999		# For SAFETY use only equivalent replacement part. (1) Number on unit.

COILS & TRANSFORMERS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA				
		MFG. PART No.	OTHER IDENTIFICATION	MILLER PART No.	THORDARSON PART No.	TRIAD PART No.
# L371	Pincushion Phase	23228022	TPC4002			
# L401	Horiz Osc (Hold)	23225699	TLN1023			
# L462	Yoke Horiz .94mH Vert 41.5mH	23227944	TDY2053A	H-1152		
# L471	Width	23222246	TLN2013A			
# L472	Horiz Linearity	23222693	TLN2027			
# L701	Right-R-Vert Lines	23227172	TCV2004A			
# L702	Right-B-Vert Lines	23227172	TCV2004A			
# L703	Convergence Yoke	23227166	TCV1008			
# T371	T/B Pincushion	23228028	TPC1003A			
# T401	Horiz Driver	23224032	TLN1021A			
# T461	Horiz Output	23226679	TFB2028A			
# T471	Side Pincushion	23228995	TPC2007A			

#For SAFETY use only equivalent replacement part.

TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFGR. PART No.	MALLORY PART No.	TRW PART No.
R151	AGC	3300	24061137	MTC33L1(18)	X201R302B(18)
R152	AGC Delay	1000	24061393		
	AGC Delay	1000	24061890		
R158	AFT Balance	330K	24061435		
R252	Green Drive	200	24314201		
R253	Blue Drive	200	24314201		
R254	Contrast/AGC Switch	10K	24060971		
	Detent @ 50%				
R255	Brightness	10K	24060730		
	Detent @ 50%				
R256	Sharpness (Picture)	10K	24060730		
	Detent @ 50%				
R257	Sub Brightness	10K	24061887		
	Sub Brightness	10K	24061399		
R258	Sub Contrast	10K	24061349		
R351	Vert Hold	50K	24319503		
R352	Height	50K	24319503		
R452	Focus	20Meg	24060972		
R454	Side DPC Adjust	220	24061339		
R554	Preset Color	10K	24061190		
R554	Tint	10K	24060731		
R555	Color	10K	24060731		
R557	Preset Tint	10K	24061190		
R651	Volume/Main Power Switch	10K	24056998		
R652	Tone	10K	24060731		
R751	Red Vert Lines (Left)	100 3W	24060090		
R752	Blue Vert Lines (Left)	100 3W	24060090		
R753	R/B Vert Lines (Top)	30 1W	24061260		
R754	R/B Vert Lines (Bottom)	30 1W	24061260		
R757	Red Horiz Lines (Top)	100 1W	24061259		
R758	Red Horiz Lines (Bottom)	100 1W	24061259		
R759	Blue Horiz Lines (Top)	100 1W	24061259		
R760	Blue Horiz Lines (Bottom)	100 1W	24061259		
R851	105 Volt B+ Adjust	500	24061955		
R951	Red Screen	1Meg	24314105		
R952	Green Screen	1Meg	24314105		
R953	Blue Screen	1Meg	24314105		

For SAFETY use only equivalent replacement part.
(18) Mount vertically and use jumper wires to "PC" Board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
R180	12K 5% 2W Metal Film	24964123	22-4122	R512	150K 2% 1/8W Carbon	24801154	
R185	12K 5% 2W Metal Film	24964123	22-4122	R514	130K 2% 1/8W Carbon	24801134	
R208	3000 2% 1/8W Carbon	24802302		R515	56K 2% 1/8W Carbon	24801563	
R209	1200 2% 1/8W Carbon	24801122		R582	100K 2% 1/8W Carbon	24801104	
R212	2000 Cold NTC (D33A)	A8503300	FR1014	R592	11K 5% 2W Metal Film	24964113	
R213	1800 2% 1/8W Carbon	24802182		R594	11K 5% 2W Metal Film	24964113	
R214	2000 2% 1/8W Carbon	24802202		R596	11K 5% 2W Metal Film	24964113	
R215	220 2% 1/8W Carbon	24801221		R665	VDR(E-80)	24000097	
R281	12K 5% 2W Metal Film	24962123	22-4122	R691	VDR(E-80)	24000097	
R341	10 5% 1/2W Fusible	24531100		R701	120 5% 3W Metal Film	24965121	
R371	2000 5% 2W Metal Film	24964202		R702	120 5% 3W Metal Film	24965121	
R381	2200 5% 2W Metal Film	24964222	22-4104	R801	100 10% 3W WW	24028101	
R419	2700 5% 2W Metal Film	24964272	22-4106	R802	9.5 Cold PTC Tap @ 3.3	24000995	
R422	560 5% 2W Fusible	24533561		R807	.56 5% 2W WW	24025568	
R427	2 5% 1W WW	24023209		R808	2400 2% 1/8W Carbon	24801242	
R428	1000 5% 1/8W Carbon	24917102	22-1096	R811	12K 5% 2W Metal Film	24964123	22-4122
R429	1.5 10% 1W Fusible	24000977		R813	36K 2% 1W Metal Film	24003998	
R430	22 5% 2W Fusible	24533220		R861	1.5 5% 15W WW	24047159	
R431	6.8 5% 1W Fusible	24000976		R862	75 5% 25W WW	24049750	
R461	.1 10% 2W WW	24026108		R863	1Meg 5% 1/2W Carbon	24942105	22-2168
R475	220 5% 2W Metal Film	24964221	22-4080	R872	470 5% 2W Metal Film	24964471	
R476	39 10% 10W WW	24526390		RE42	6200 5% 2W Metal Film	24964622	
R510	150K 2% 1/8W Carbon	24801154					

#For SAFETY use only equivalent replacement part.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFGR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q502	TA7149P	80313700	GEIC-110		REN 1132	SK3287/1132	ECG1132	TM1132		221-29118
Q504	TA7150P	80313800	GEIC-111		REN 1130	SK3478/1130	ECG1130	TM1130		
Q505	2SC1569	A678971C	GE-251	PTC907	REN 198	SK3219	ECG198	TM198	WEP779/198	121-29028
	FA-4									
Q507	2SC1569	A678971C	GE-251	PTC907	REN 198	SK3219	ECG198	TM198	WEP779/198	121-29028
	FA-4									
Q509	2SC1569	A678971C	GE-251	PTC907	REN 198	SK3219	ECG198	TM198	WEP779/198	121-29028
	FA-4									
Q601	TA7146P	80313400	GEIC-107		REN 1133	SK3490/1133	ECG1133	TM1133	WEP2102/1133	
Q602	TA7125P	80311500								
Q603	2SC515A	A671857E		PTC104	REN 124	SK3021/124	ECG124	TM124	WEP779/198*	121-29012
Q801	2SA562Y	A650925H	GE-269	PTC103*	REN 290	SK3114/290	ECG290	TM290/**	WEP911/290	121-29003*
Q802	2SC735-0	A673354K	GE-210	PTC123*	REN 289	SK3122	ECG289	TM289/**	WEP735A	121-29065
Q803	2SC735Y	A673355H	GE-210	PTC123*	REN 289	SK3122	ECG289	TM289/**	WEP735A	121-29065
Q805	2SC1195	A6773802	GE-35	PTC129A	REN 162	SK3836/284	ECG162	TM162	WEP707/162	121-29018
	FA-1									
Q870	2SC2073	A6319500			REN 291	SK3219	ECG375	TM375	WEP780/291	121-29047
Q871	2SA495-0	A6502356	GE-221*	PTC103*	REN 159*	SK3114/290	ECG159*	TM159/**	WEP495	121-29003*
Z402	TPA2007C	23115942								

For SAFETY use only equivalent replacement part.

* Lead configuration may vary from original.

/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C062	22 35V	24635220				
C063	4.7 35V	24635479				
CE41	.47 400V	24647478	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C113	3.3 50V	24640996	NLMW-50	VTT3R3A50	QV1-25	EV-1618.1
C121	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C181	330 16V NP	24633331	WBR300-35*	VTT330H16	QV1-133	EV-1245
C182	3.3 16V	24085032	WNP4-50	TCN504A	QEN1-85	TVAN-1302.5
C191	2.2 50V	24640997	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C201	10 16V	24633100	PC10-25	VTT10B25	QV1-41	EV-1222
C204	2.2 50V	24636229	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C207	10 100V	24641100	WBRI0-150*	VTT106100		TVA-1337*
C210	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C212	10 35V	24635100	PC10-50	VTT10063	QV1-45	EV-1622
C270	3.3 100V	24641339	PC5-100	VTT3R3D100		TVA-1400.2*
C286	100 25V	24634101	PC100-25	VTT100625	QV1-97	EV-1331
C301	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C304	22 35V	24635220	PC30-50	VTT22663	QV1-59	EV-1524
C330	.47 50V	24636478	PC1-50	VTT4R7A63	QV1-3	EV-1610
C332	4.7 50V	24617990	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C333	2.2 50V	24617997	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C337	2.2 50V	24617997	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C339	22 50V	24636220	PC30-50	VTT22663	QV1-59	EV-1524
C342	1 100V	24640999	PC1-100	VTT1A100		TVA-1400
C381	47 16V	24633470	PC50-16	VTT47016	QV1-73	EV-1226
C406	10 35V	24635100	PC10-50	VTT10063	QV1-45	EV-1622
C410	22 50V	24636220	PC30-50	VTT22663	QV1-59	EV-1524
C418	4.7 200V	24643479				
C419	2.2 250V	24644229	WBR2-450*	TC595A*		TVA-1500.1*
C442	22 160V	24640003				
C443	10 250V	24644100				
C444	100 100V	24641101	WBRI00-150*	TC10101B*		TVA-1346*
C448	1000 25V	24634102	WBRI000-25*	VTT1000N25	QV1-185	EV-1360
C471	330 80V	24630009	WBR350-150*			TVA-1426*
C472	100 100V	24641101	WBRI00-150*	TC10101B*		TVA-1346*
C473	4.7 16V NP	24085029	WNP5-50*	TCN505A*	QEN1-113*	TVAN-1303.1*
C474	4.7 16V NP	24085029	WNP5-50*	TCN505A*	QEN1-113*	TVAN-1303.1*
C482	470 25V	24634471	WBR500-25*	VTT470M25	QV1-157	EV-1451
C507	4.7 35V	24635479	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C508	1 50V	24640998	PC1-50	VTT1A50	QV1-11	EV-1615
C510	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C515	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C604	10 16V	24633100	PC10-25	VTT10B25	QV1-41	EV-1222
C609	1 50V	24636010	PC1-50	VTT1A50	QV1-11	EV-1615
C617	3.3 50V	24640996	NLMW-50	VTT3R3A50	QV1-25	EV-1618.1
C662	6.8 25V NP	24085018	WNP8-50*	TCN5010A*	QEN1-156*	TVAN-1303.4*
C681	330 16V	24633331	WBR300-35*	VTT330H16	QV1-133	EV-1245
C682	330 16V	24633331	WBR300-35*	VTT330H16	QV1-133	EV-1245
C684	220 16V	24633221	PC250-25	VTT220H16	QV1-117	EV-1240
C685	220 16V	24633221	PC250-25	VTT220H16	QV1-117	EV-1240
C691	10 160V	24642100	WBRI2-250*	TC52A*		TVA-1504*
C809	2.2 250V	24644229	WBR2-450*	TC595A*		TVA-1500.1*
C811	3.3 160V	24642339	WBR4-250*	TC50X8*		TVA-1500.2*
C812	22 160V	24642220	WBR20-250*	TC55B*		TVA-1550*
C861	680 200V	24087007				
C871	3.3 50V	24636339	NLMW-50	VTT3R3A50	QV1-25	EV-1618.1
C872	2.2 50V	24636229	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C901	1 250V	24644010	WBRI-450*	TC56A*		TVA-1540*

For SAFETY use only equivalent replacement part.

* Axial replacement for radial device.

TOSHIBA MODEL
C2100 (Ch. TAC920)

FOLDER 3

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

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CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C101	7pF 50V +.25	24436070		CN0568		
C104	39 50V 5%			CN0439		10TCC-Q39
C105	180 N75 50V 5%	24355181		*		10TCN-T18
C107	220 N75 50V 5%	24355221		*		10TCN-T22
C108	82 N150 50V 5%	24356820		*		10TCP-Q82
C109	.01 50V			MAG5011		
C110	.01 50V			MAG5011		
C111	.01 50V			MAG5011		
C115	22 50V 5%		NP022	CN0422		10TCC-Q22
C116	.01 50V			MAG5011		
C120	.01 50V			MAG5011		
C122	3pF 50V +.25	24436030		CN0533		10TCC-Q68
C123	52 50V 5%		NP068	CN0468		
C124	.01 50V			MAG5011		
C125	15 50V 5%		NP015	CN0415		10TCC-Q15
C126	.01 50V			MAG5011		
C130	20 50V 5%		NP020	CN0420	QCC2-19	10TCC-Q20
C131	2pF 50V +.25	24436020		CN0522		
C132	24 50V 5%		NP025	CN0425		10TCC-Q25
C133	180 N75 50V 5%	24355181		*		10TCN-T18
C134	47 50V 5%		NP047	CN0447	QCC2-26	10TCC-Q47
C171	.001 50V			GP210	QCT2-41	10TS-D10
C172	.01 50V			MAG5011		
C173	.01 50V			MAG5011		
C174	2pF 50V +.25	24436020		CN0522		
C175	.01 50V			MAG5011		
C176	.01 50V			MAG5011		
C177	68 N150 50V 5%	24356680		*		10TCP-Q68
C178	75 N75 50V 5%	24355750		*		10TCN-Q75
C183	.1 50V		WMF05P1	EWFO5010		431P1049R5
C184	47 50V 5%		NP047	CN0447	QCC2-26	10TCC-Q47
C186	3pF 50V +.25	24436030		CN0533		
C187	.01 50V			MAG5011		
C192	.01 50V			MAG5011		
C202	30 50V 5%		NP033	CN0433	QCC2-22	10TCC-Q33
C203	22 50V 5%		NP022	CN0422		10TCC-Q22
C205	560 50V 10%			GP356		
C206	33 50V 5%		NP033	CN0433	QCC2-22	10TCC-Q33
C208	30 50V 5%		NP033	CN0433	QCC2-22	10TCC-Q33
C209	300 50V 5%		GP300	GP330		10TS-T30
C211	.01 50V			MAG5011		
C302	.022 50V 10%			M192P2239R8	QCT2-33	192P2239R8
C303	330 500V 10%			GP333		10TS-T33
C331	.015 50V 10%			M192P1539R8	QCT2-41	192P1539R8
C334	.001 50V 10%			GP210	QCT2-41	10TS-D10
C335	.01 500V		GP10000	GP110	QCT2-41	56A-S10
C336	.22 50V 10%		WMF05P22	EWFO5022		431P2249R5
C338	.047 200V		OPMS4S47	EWFO5022		4PB-S47
C340	.22 50V 10%		WMF05P22	MAG5011		431P2249R5
C341	.01 50V					
C371	.091 400V 5%	24155913		M192P1539R8		192P1539R8
C382	.015 50V 10%			EWFO5022	QF1-91	1PB-S10
C383	.01 50V 10%		WMF1S1	EWFO5022		192P2229R8
C401	.0022 50V 10%			M192P2229R8		192P2229R8
C402	.0022 50V 10%			M192P2229R8		192P2229R8
C403	.027 50V 10%			M192P2739R8		192P2739R8
C404	.039 50V 10%			M192P3939R8		192P3939R8
C405	.15 50V 10%		WMF05P15	EWFO5015		431P1549R5
C407	.022 50V 10%			M192P2239R8		192P2239R8
C408	.068 50V 10%		WMF1S68	EWFO5015	QF1-195	1PB-S68
C411	.01 50V 10%		WMF1S1	EWFO5015	QF1-91	1PB-S10
C412	390 50V 10%		GP390	GP339	QCT2-34	10TS-T39
C413	560 500V 10%			GP356		10TS-T56
C414	820 500V 10%		GP820	GP382		10TS-T82
C420	.0015 1.6KV 5%	24095364				
C421	.0015 1.6KV 5%	24095364				
C422	.0015 1.6KV 5%	24095364				
C423	.0015 1.6KV 5%	24095364				
C424	.0015 1.6KV 5%	24095364				
C425	.0015 1.6KV 5%	24095364				
C426	.0015 1.6KV 5%	24095364				
C427	.0015 1.6KV 5%	24095364				
C428	.0015 1.6KV 5%	24095364				
C429	.0011 1.6KV 5%	24095361				
C435	560 2KV 10%	24442561				
C440	.18 200V 5%	24828184				
C441	.1 1.5KV 10%	24099065				
C445	.056 200V 10%	24833563				
C446	.15 200V 5%	24828154				
C447	.16 200V 5%	24828164				
C461	470 2KV 10%	24442471				
C462	.0015 500V 10%	24214152				
C503	.01 50V			MAG5011		
C504	.01 50V			MAG5011		
C505	.01 50V			MAG5011		
C506	.01 50V			MAG5011		
C509	120 50V 5%			CN0312		10TCC-T12
	.01 50V			MAG5011		

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C511	.039 50V 10%			M192P3939R8		192P3939R8
C512	.01 50V			MAG5011		
C513	.047 50V 10%		OPMS2S47	EWFO5010	QF1-171	1PB-S47
C514	.033 50V 10%			M192P3339R8		192P3339R8
C516	.033 50V 10%			M192P3339R8		192P3339R8
C517	.033 50V 10%			M192P3339R8		192P3339R8
C518	.033 50V 10%			M192P3339R8		192P3339R8
C519	.033 50V 10%			M192P3339R8		192P3339R8
C520	.01 50V			MAG5011		
C521	.01 50V			MAG5011		
C522	82 50V 5%		NP082	CN0482		10TCC-Q82
C523	10 N750 50V +.25	24340100				
C524	.001 50V			GP210	QCT2-41	10TS-D10
C525	150 N470 50V 5%	24359151		*		10TCT-T15
C526	.01 50V			MAG5011		
C527	20 50V 5%		NP020	CN0420	QCC2-19	10TCC-Q20
C530	.01 50V			MAG5011		
C561	.1 50V 10%		WMF05P1	EWFO5010		431P1049R5
C562	.01 50V			MAG5011		
C564	.01 50V			MAG5011		
C565	22 50V 5%		NP022	CN0422		10TCC-Q22
C566	.01 50V			MAG5011		
C567	.01 50V			MAG5011		
C568	.01 50V			MAG5011		
C569	22 50V 5%		NP022	CN0422		10TCC-Q22
C570	.01 50V			MAG5011		
C571	120 50V 5%			CN0312		10TCC-T12
C572	120 50V 5%			CN0312		10TCC-T12
C573	120 50V 5%			CN0312		10TCC-T12
C574	.01 50V			MAG5011		
C581	.0018 50V 10%		GP1800	GP218	QCT2-44	10TS-D18
C582	470 50V 5%		GP470	GP347	QCT2-35	10TS-T47
C591	.0012 50V 10%			GP212		10TS-D12
C592	.0012 50V 10%			GP212		10TS-D12
C593	.0012 50V 10%			GP212		10TS-D12
C594	6pF 500V +.25	24435060		CN0568		
C595	6pF 500V +.25	24435060		CN0568		
C596	6pF 500V +.25	24435060		CN0568		
C601	56 N75 50V 5%	24355560		*		10TCN-Q56
C602	.01 50V 10%		WMF1S1	EWFO5010	QF1-91	1PB-S10
C603	.01 50V 10%		NP0100	CN0310		10TCC-T10
C605	.01 50V			MAG5011		
C606	.1 50V 10%		WMF05P1	EWFO5010		431P1049R5
C607	.01 50V			MAG5011		
C608	.01 50V			MAG5011		
C610	.12 50V 10%		WMF05P12	M192P1249R8		192P1249R8
C611	.01 50V			MAG5011		
C612	330 50V 5%		GP330	GP333	QCT2-33	10TS-T33
C661	470 500V 10%		GP470	GP347	QCT2-35	10TS-T47
C664	470 50V 10%		GP470	GP347	QCT2-35	10TS-T47
C673	.01 50V			MAG5011		
C686	.0082 50V 10%		WMF1D82	EWFO5011		1PB-D82
C688	6pF 50V +.25	24436060		CN0568		
C692	.01 500V		GP10000	GP110	QCT2-33	56A-S10
C701	.047 200V 10%		OPMS4S47	EWFO5011	QCT2-35	4PB-S47
C702	.047 200V 10%		DPMS4S47	EWFO5011		192P2229R8
C703	.0027 50V 10%			M192P2729R8		431P1549R5
C704	.15 50V 10%		WMF05P15	EWFO5015		192P2729R8
C705	.0027 50V 10%			M192P2729R8		431P1549R5
C706	.15 50V 10%		WMF05P15	EWFO5015		431P1549R5
C801	.1 125V AC	24095475				
C802	.01 160V AC	24094437				
C803	.01 160V AC	24094437				
C804	.01 160V AC	24094437				
C805	.01 160V AC	24094437				
C806	.01 50V			MAG5011		
C807	.01 50V			MAG5011		
C902	330 1KV 10%	24211331		GP330	QCT2-33	10TS-T33
C903	330 1KV 10%	24211331		GP330	QCT2-33	10TS-T33
C904	330 1KV 10%	24211331		GP330	QCT2-33	10TS-T33

For SAFETY use only equivalent replacement part.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

(1) 5% tolerance available on order from manufacturer.

TOSHIBA MODEL
C3100 (Ch. TAC920)

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