

SERVICE WARNING

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

SERVICING THE HIGH VOLTAGE AND CRT

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

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

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

GENERAL GUIDELINES

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

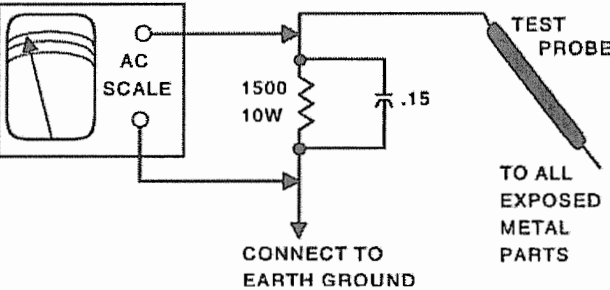
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



Model D40W20YX1 (Chassis ATC221)

SET 5132

MODEL D40W20YX1 (CHASSIS ATC221)

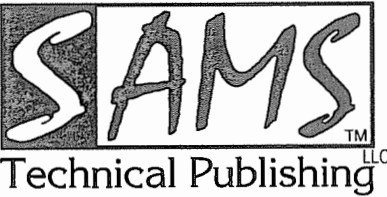
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Representative Model
Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list



APRIL 2006 SET 5132

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

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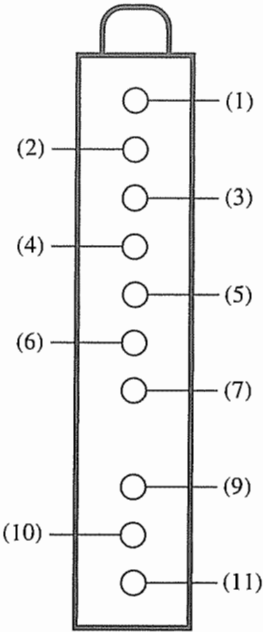
TUNER INFORMATION

MAIN TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.5V	2.6V	3.0V
(2) TU	1.6V	4.5V	5.5V
(3) AS	1.3V	1.3V	1.3V
(4) CLK	4.7V	4.7V	4.7V
(5) DAT	4.7V	4.7V	4.7V
(6) UB	5.0V	5.0V	5.0V
(7) +5V	5.0V	5.0V	5.0V
(9) +33V	32.5V	32.5V	32.5V
(10) IF2	0V	0V	0V
(11) IFT	0V	0V	0V

NOTE: VHF Low Band voltages taken on channel 2.
 VHF High Band voltages taken on channel 7.
 UHF Band voltages taken on channel 14.

MAIN TUNER TERMINAL GUIDE

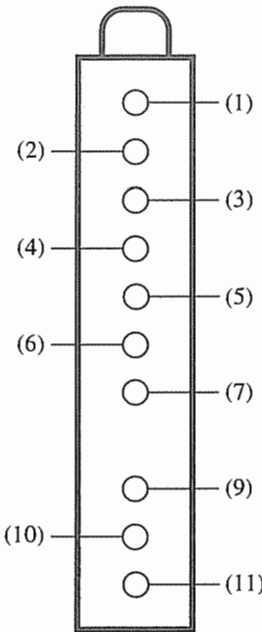


SLAVE TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.6V	2.6V	3.0V
(2) TU	1.5V	4.5V	5.5V
(3) AS	0V	0V	0V
(4) CLK	4.7V	4.7V	4.7V
(5) DAT	4.7V	4.7V	4.7V
(6) UB	5.0V	5.0V	5.0V
(7) +5V	5.0V	5.0V	5.0V
(9) +33V	32.5V	32.5V	32.5V
(10) IF2	0V	0V	0V
(11) IFT	0V	0V	0V

NOTE: VHF Low Band voltages taken on channel 2.
 VHF High Band voltages taken on channel 7.
 UHF Band voltages taken on channel 14.

SLAVE TUNER TERMINAL GUIDE



MISCELLANEOUS ADJUSTMENTS

NOTE: All procedures require an antenna connected and power applied to the set.

HIGH VOLTAGE CHECK

Tune in a picture. Set brightness, contrast, and color to minimum. Connect a high voltage probe to CRT anode. High voltage should measure 30kV to 32kV.

SUB BRIGHTNESS

NOTE: Turn the TV on for at least 15 minutes for warm up before doing the Sub Brightness Adjustment.

Tune in a gray scale bar staircase signal. Access the Customer Control Main Menu. Select Picture Quality, select Picture Preset, then select Normal Lighting. This will reset the customer controls. Access the Service Menu, adjust the Sub Brightness so that the first bar on the gray scale signal is black and the rest of the gray scale bars are clearly distinguishable from each other.

SUB CONTRAST

Tune in a gray scale bar staircase signal. Access the Customer Control Main Menu. Select Picture Quality, select Picture Preset, then select Normal Lighting. This will reset the customer controls. Access the Service Menu, adjust the Sub Contrast to mid range. Connect an oscilloscope to pin 6 of the CRT socket to measure the green voltage peak to peak. Adjust the Sub Contrast to have 109V between the blanking and the white level. Repeat the process with the scope connected to pin 8 of the CRT socket for the red and to pin 11 of the CRT socket for the blue.

COLOR TEMPERATURE

NOTE: Turn the TV on for at least 15 minutes for warm up before doing the Color Temperature Adjustment.

Tune in a gray scale bar staircase signal. Access the Customer Control Main Menu. Select Picture Quality, select Picture Preset, then select Normal Lighting. This will reset the customer controls. Perform the Screen Adjustment procedure. Access the Service Menu. Adjust RG Drive Gain value to 42, and adjust Blue Drive Gain value to 42. Adjust Red Cutoff value to 10. Adjust the Green Cutoff value and the Blue Cutoff value for the best gray tone on the first few bars of the signal. The Red Cutoff value may be readjusted to produce the best picture quality. Adjust the Green Gain and the Blue Gain for the best white level on the last bars of the signal. Check the low light to high light gray scale tracking. Repeat the procedure, if necessary, to obtain the best performance. Tune in a regular channel and adjust brightness for picture in normal room lighting.

Apply a composite video signal to Video 1 Input. Select Video 1 as the main picture source. Turn on PIP, and select Video 1 as the PIP picture. Connect an oscilloscope to pin 8 of the Blue CRT socket to measure the blue voltage peak to peak. Access the Service Menu. Adjust the PIP brightness level so that the PIP picture has the same brightness as the main picture. Adjust the PIP contrast level so that the PIP contrast has the same as the main picture contrast.

SERVICE MENU

The following adjustment procedures are accessed thru the Field Service Menu. To access the Field Service Menu, with the receiver off, press the volume down button on the receiver and hold it down while pressing the channel down button for at least eight seconds. The set will turn on and the screen will display the Field Service Main Menu. Adjustments are made by selecting the proper menu item and changing the value of that item. To navigate thru the Field Service Menu use channel up and down buttons on the receiver front. To adjust the current value of that menu item use volume + and - buttons on the receiver front. To save the changes on any of the adjustments, select TUBE from the Field Service Menu and then select the STORE item which must be checked. All service adjustments are bus controlled except focus and screen. The remote control can also be used by pressing the arrows buttons up or down to navigate thru the menu and by pressing the arrows buttons to the left or to the right to select an item to adjust. Pressing the clear button on the remote will clear the Field Service Menu from the screen. Pressing the menu button with a long press will display the Field Service Menu back. The OK button on the remote is used to select or deselect a menu item.

NOTE: Before making any changes to any value, make a record of the On Set values.

FIELD SERVICE MENU CHART

QUIT

TUBE
CHASSIS SETUP
FEATURE SETUP
GEOMETRY
VIDEO
IF
ERROR
CONVERGENCE

CHASSIS SETUP MENU CHART

Return

Clear Programs
Default Sound Presets
Kbd. Config Horizontal
Bus Quiet
Burn-In Prot.
Dev Support

FEATURE SETUP MENU CHART

Return

Pict. Rotation	x
Blue Screen	x
Curtains Effect	x
Subwoofer	x
Autoconvergence	x
DVI	x
Defaults	

GEOMETRY MENU CHART

Tune in a crosshatch pattern. Select the Geometry item from the field service menu.

Item	Value	Remarks
Return	-	-
V-Slope	C0	Adjust vertical slope until the middle line of the crosshatch is just visible.
V-Amplitude	8C	Adjust for half an inch over size on top and bottom of the crosshatch pattern.
V-Position	50	Adjust for the best centering of the crosshatch pattern vertically on the screen.
V-Linearity	18	Adjust for equal heights of the squares on top and bottom of the crosshatch pattern.
H-Delay Tuner 1	80	Using the Main Tuner, adjust to center the video inside the displayed curtains.
H-Delay Tuner 2	80	Using the Slave Tuner, adjust to center the video inside the displayed PIP window.
H-Position	98	Adjust for the best centering of the crosshatch pattern horizontally on the screen.
H- Amplitude	84	Adjust for half an inch over size on the right and the left of the crosshatch pattern.
EW- Amplitude	44	Adjust for straight vertical lines in the middle of the CRT.
EW-Trapezium	84	Adjust for straight vertical lines on the left and right of the crosshatch pattern.
Breathing	8C	Adjust until horizontal amplitude will change with different current at the same ratio as the vertical amplitude.
H-Parallel	70	Horizontal Parallelogram is to adjust the offset between the top and bottom of the crosshatch pattern.
EW-Symmetry	70	Adjust for straight vertical lines at the right and the left of the crosshatch pattern.
EW-Upper Corner	98	Adjust for straight vertical lines at the top of the crosshatch pattern.
EW-Lower Corner	9C	Adjust for straight vertical lines at the bottom of the crosshatch pattern.
H-Max (1)	A0	-
H-Min (1)	40	-
Check XRP	Start	-

(1) H-Max and H-Min set the range limitations of the H-Amplitude Adjustment. This adjustment should only be used when CRT is replaced and does not appear in the CRT list. To access this adjustment, Dev Support item must be checked in the Chassis Setup Menu.

VIDEO MENU CHART

Allow 15 minutes for warm up. Tune in a crosshatch pattern. Adjust for the best focus. Select the Video item from the field service menu.

Item	Value	Remarks
Return	-	-
G2 Alignment	-	-
Scaling Color	58	-
Peak White	-	-
White Point R	80	-
White Point G	80	-
White Point B	80	-
Scaling Brightness	68	-
Black Offset R	70	Tune in a gray scale bar staircase signal.
Black Offset G	70	Tune in a gray scale bar staircase signal.
Contrast Max	-	-
Scaling Tint Main	80	-
Scaling Tint Second	88	-
Text Contrast	80	-
Drive Level	60	-
Full White 4/3	50	-
Scaling Contrast	E0	-

IF MENU CHART

Item	Value	Remarks
Return	-	-
Tuner 1: AGC Takeover	4C	-
Tuner 1: IF PLL VCO	66	-
	OK	-
Tuner 2: AGC Takeover	40	-
Tuner 2: IF PLL VCO	58	-
	Low	-
FFI-Bit	Do not adjust.	-

ERROR CODES CHART

ERROR CODES

If certain failures occur, the matching error codes will be stored in the NVM. These error codes can be read in one of two methods.

The first method of reading an error code is with the error menu. The last five error codes will be displayed, along with a time stamp from the run time counter. The most recent error code will be displayed on top. The time stamp is displayed as “Run Hours”. An error counter will not count beyond 255. To clear the error codes from memory, select the Clear Error Codes Box from the menu. A long press will clear all stored codes. After every

repair is done to the chassis it is recommended to clear the error codes, and reset them back to value 0.

The second method of reading an error code is to count the flashes of the power LED. Only the last error code stored in the NVM can be read with this method. The LED will blink two separate digits.

Example, if the last error code stored in the NVM is 24. The LED will blink two short flashes, followed by a short pause, then will flash four times followed by a long pause. The error code flashes will be repeated 4 times.

ERROR CODES CHART

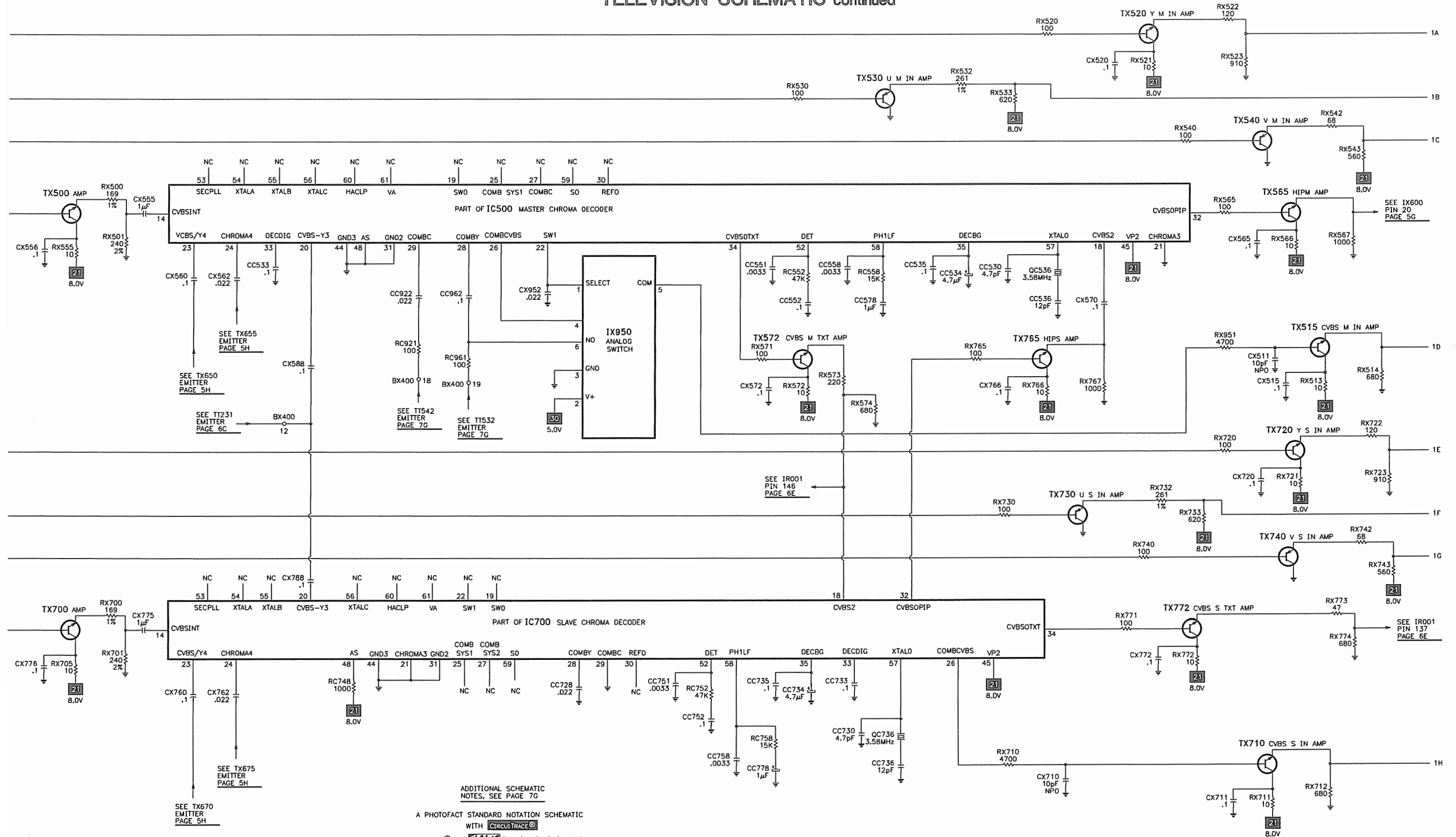
Error Code	Error Location	Circuit	Condition Indicated
11	12C_1 Low SDA Line	-	Data Line of 12C Bus_1 Held Low.
12	12C_1 Low SCL Line	-	Clock Line of 12C Bus_1 Held Low.
13	12C_2 Low SDA Line	-	Data Line of 12C Bus_2 Held Low.
14	12C_2 Low SCL Line	-	Clock Line of 12C Bus_2 Held Low.
15	12C_3 Low SDA Line	-	Data Line of 12C Bus_3 Held Low.
16	12C_3 Low SCL Line	-	Clock Line of 12C Bus_3 Held Low.
17	12C_4 Low SDA Line	-	Data Line of 12C Bus_4 Held Low.
18	12C_4 Low SCL Line	-	Clock Line of 12C Bus_4 Held Low.
19	Chassis Detection	HW	No Valid Chassis Detected.
21	No ACKN IC500	Video	IC500 fails to acknowledge.
22	POR Bit is Set	Video	Power supply problem at (POR) power on reset (VCC IC500).
23	SXA...D	Video	Correct Xtal Ident of IC500.
24	No ACKN IC700	Video	IC700 fails to acknowledge.
25	POR Bit is Set	Video	Power supply problem at (POR) power on reset (VCC IC700).
26	SXA...D	Video	Correct Xtal Ident of IC700.
27	No ACKN IC600	Video	Video Switch IC600 fails to acknowledge.
28	No ACKN IV100	PSI	PSI IC IV100 fails to acknowledge.
29	PDD Bit is Set	PSI	Power supply problem at (POR) power on reset (VCC IV100).
31	No ACKN IV200	Deflection	IV200 fails to acknowledge.
32	POR Bit is Set	Deflection	Power supply problem at (POR) power on reset (VCC IV200).
33	FLS Bit is Set	Deflection	Safety Circuit is active.
34	NHF Bit is Set	Deflection	High Voltage Transformer is failing.
35	NRF Bit is Set	Deflection	Oscillator is not locked.
36	BCF Bit is Set	Deflection	Tube is still not warm after warmup time.

ERROR CODES CHART continued

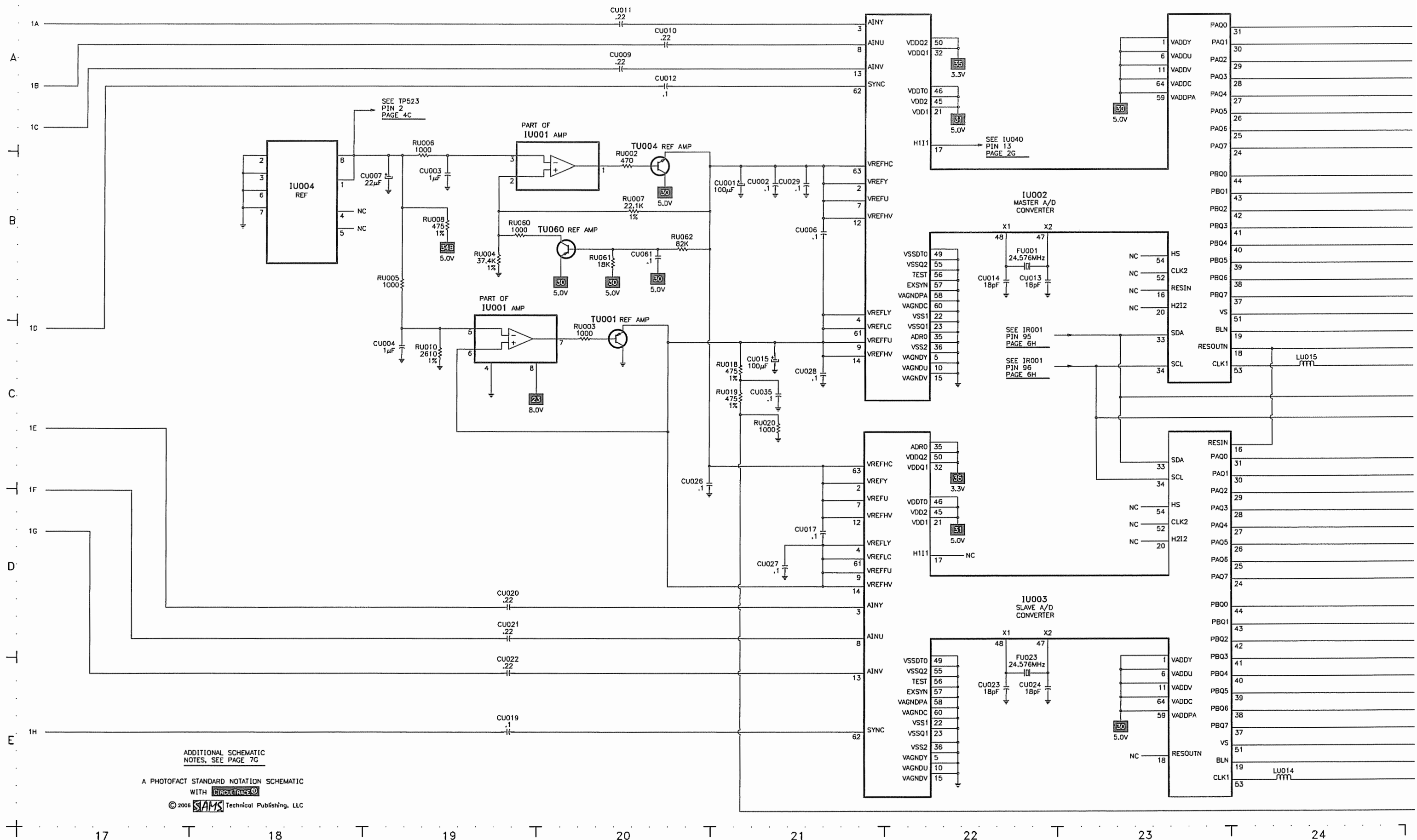
Error Code	Error Location	Circuit	Condition Indicated
37	NDF Bit is Set	Deflection	Vertical problem.
38	XRP Bit is Set	Deflection	X-Ray Protection activated during normal operation.
39	SL Bit is Set	Deflection	Phase 1 is not locked.
41	No ACKN IA001	Audio	MSP fails to acknowledge.
44	No ACKN IT900	Audio	AV Input Switch of DRI Inputs/IC fails to acknowledge.
45	Wrong MSP	Audio	Wrong MSP is fitted.
51	No ACKN IU030	-	IU030 Upconverter fails to acknowledge.
52	No ACKN IU002	A/D	Master ADC IC IU002 fails to acknowledge.
53	No ACKN IU003	A/D	Slave ADC IC IU003 fails to acknowledge.
54	No ACKN IR005	-	NVM IC IR005 fails to acknowledge.
55	No ACKN IR006	-	Port Expander IC IR006 fails to acknowledge.
59	Wrong GenCAM used	-	GenCAM cut 2.1 Must be used.
61	5V Good	HW	Switched 5V is not available.
62	5V and 8V Good	HW	Switched 5V & 8V is not available.
63	Power_Fail	HW	Unexpected level on Power_Fail Line found (Main too low).
64	XRP Alignment	HW	Overvoltage High Voltage.
65	XRP NVM Verify	HW	Write to XRP NVM area failed.
66	XRP NVM not recoverable	HW	XRP NVM contents are corrupted and cannot be recovered.
69	H & V Sync not valid	HW	H & V Sync not present (Sub OSD module not good).
71	No ACKN IT500	DRI	Frame Comb Filter IT500 fails to acknowledge.
72	No ACKN IT200	DRI	2H Video Switch IT200 fails to acknowledge.
73	No ACKN IT400	DRI	2H PSI IT400 fails to acknowledge.
78	No ACKN DVD Unit	DVD	DVD Keyboard CPU fails to acknowledge.
81	No ACKN IK01	PTV Models	Convergence IC IK01 fails to acknowledge.
82	No ACKN M24C32 (RP-NVM)	PTV Models	2H PSI IT400 fails to acknowledge.
83	Wrong Convergence Test Pattern	PTV Models	Convergence Test Pattern is wrong.
84	Wrong Convergence	PTV Models	Tube type is RP, but Convergence was not detected.
93	Install problem of 12C Bus1 & 2	Software	Problem to install the 12C Bus Driver for the 12C Bus1 & 2.
94	Install problem of 12C Bus3 & 4	Software	Problem to install the 12C Bus Driver for the 12C Bus 3 & 4.
95	Install problem of 12C Bus Driver	Software	Problem to install the Port for 12C Bus or the other ports.
96	Install problem of ADC Driver	Software	Problem to install the ADC Driver.
97	Install problem of AV-Link Driver	Software	Problem to install the AV-Link Driver.
98	Install problem of SDRAM Timing	Software	Problem to install the SDRAM Timing.
99	Watchdog	Software	Watchdog was Active.

F.





TELEVISION SCHEMATIC continued

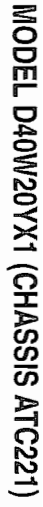


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 7G

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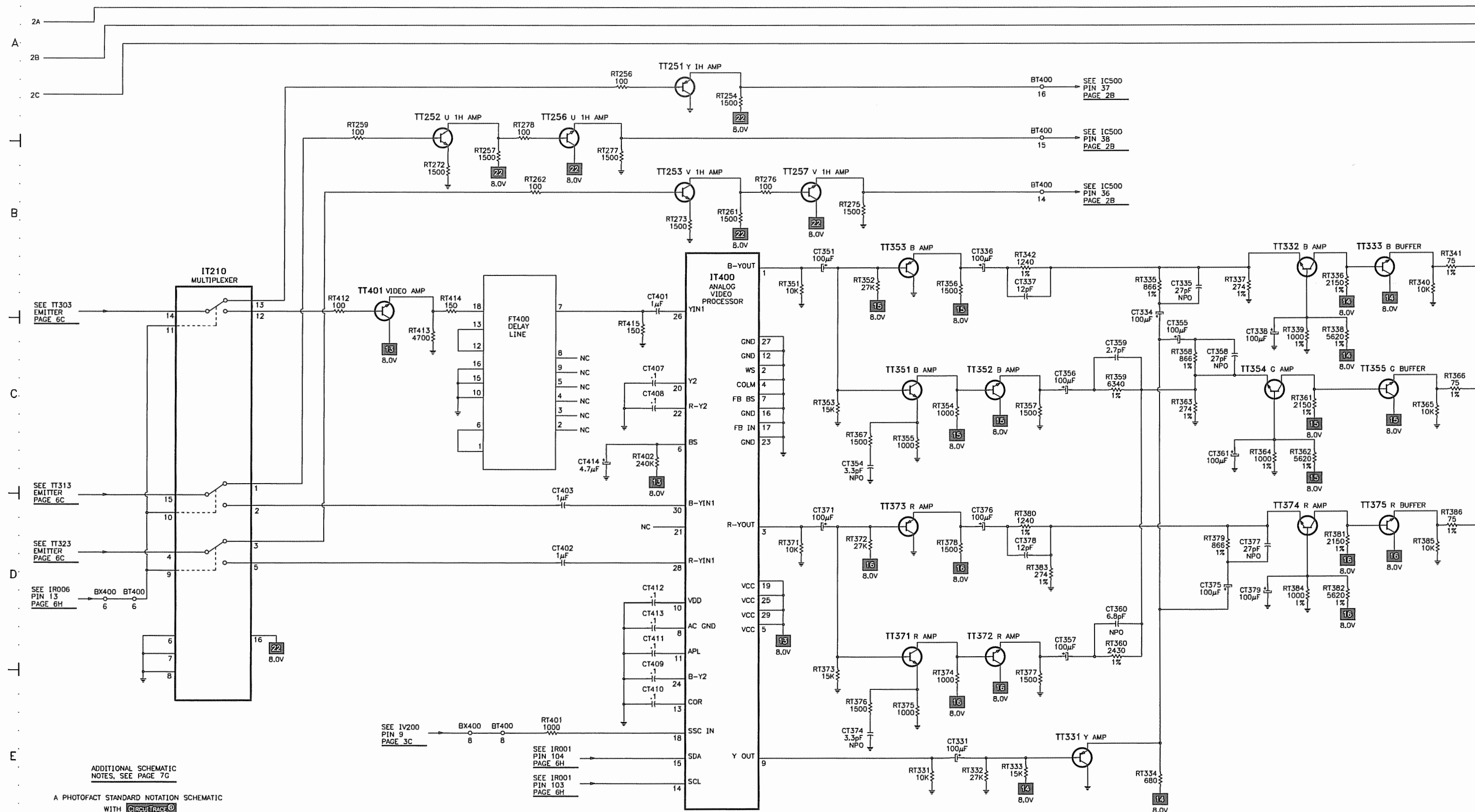
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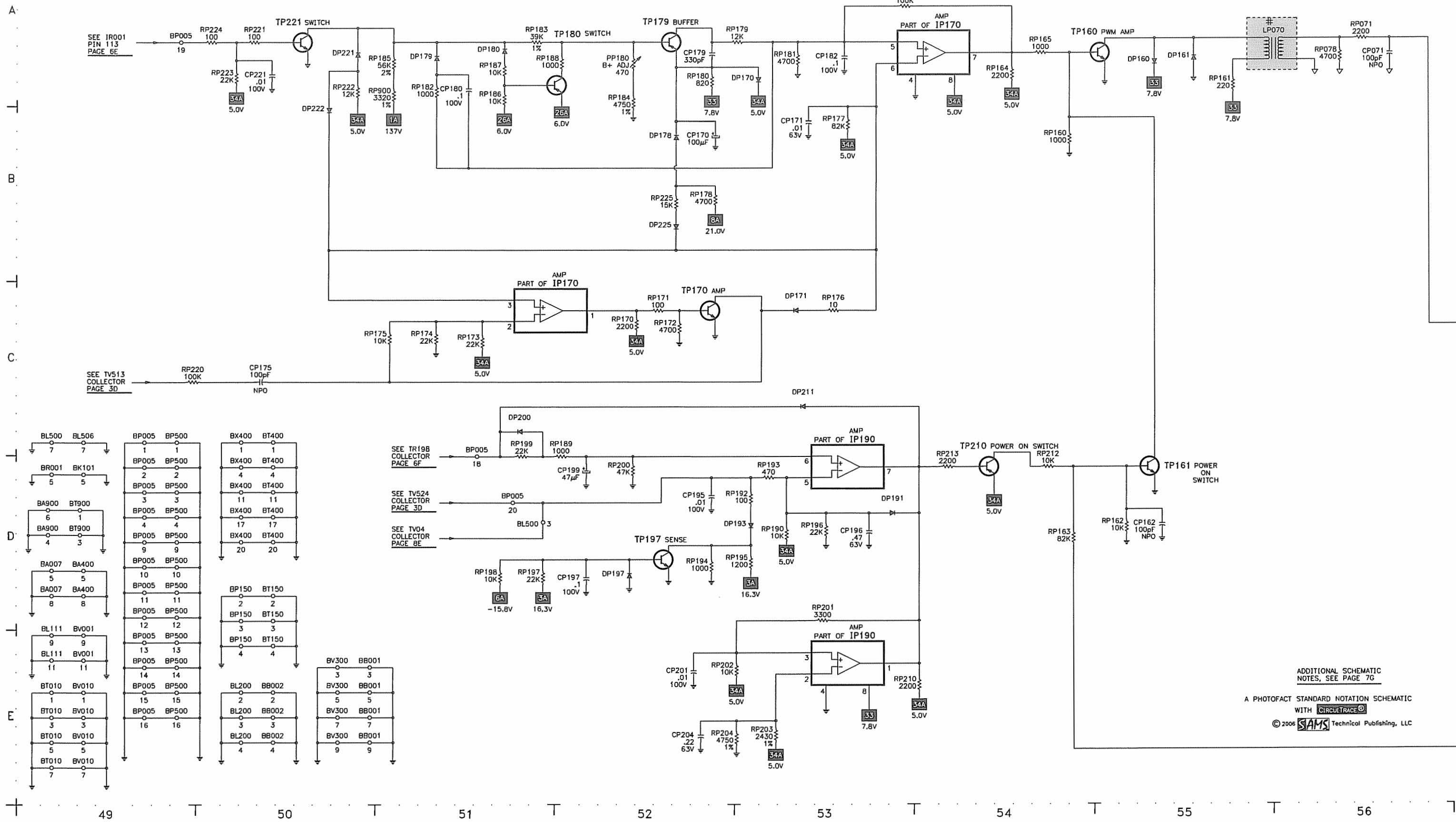
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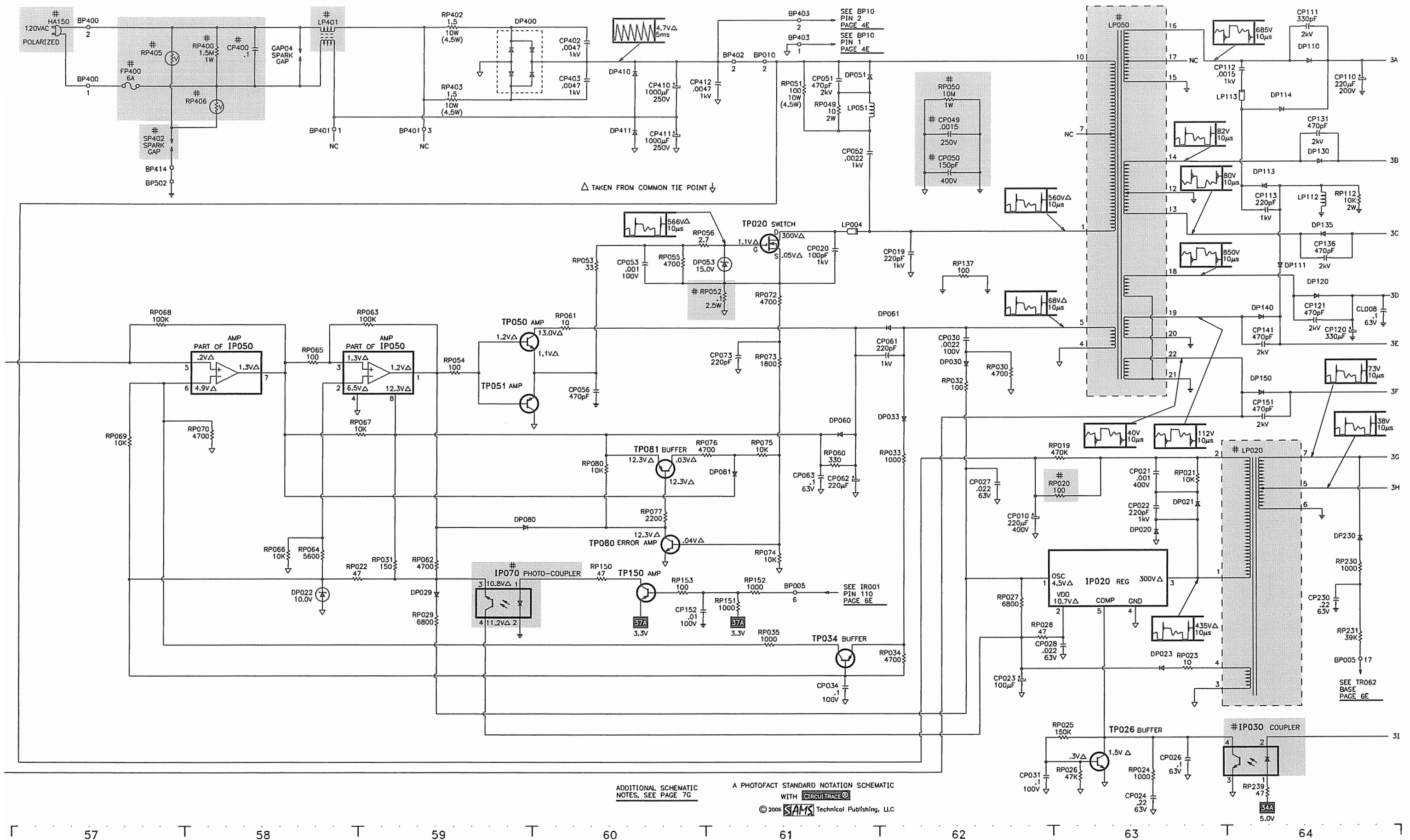
POWER SUPPLY SCHEMATIC



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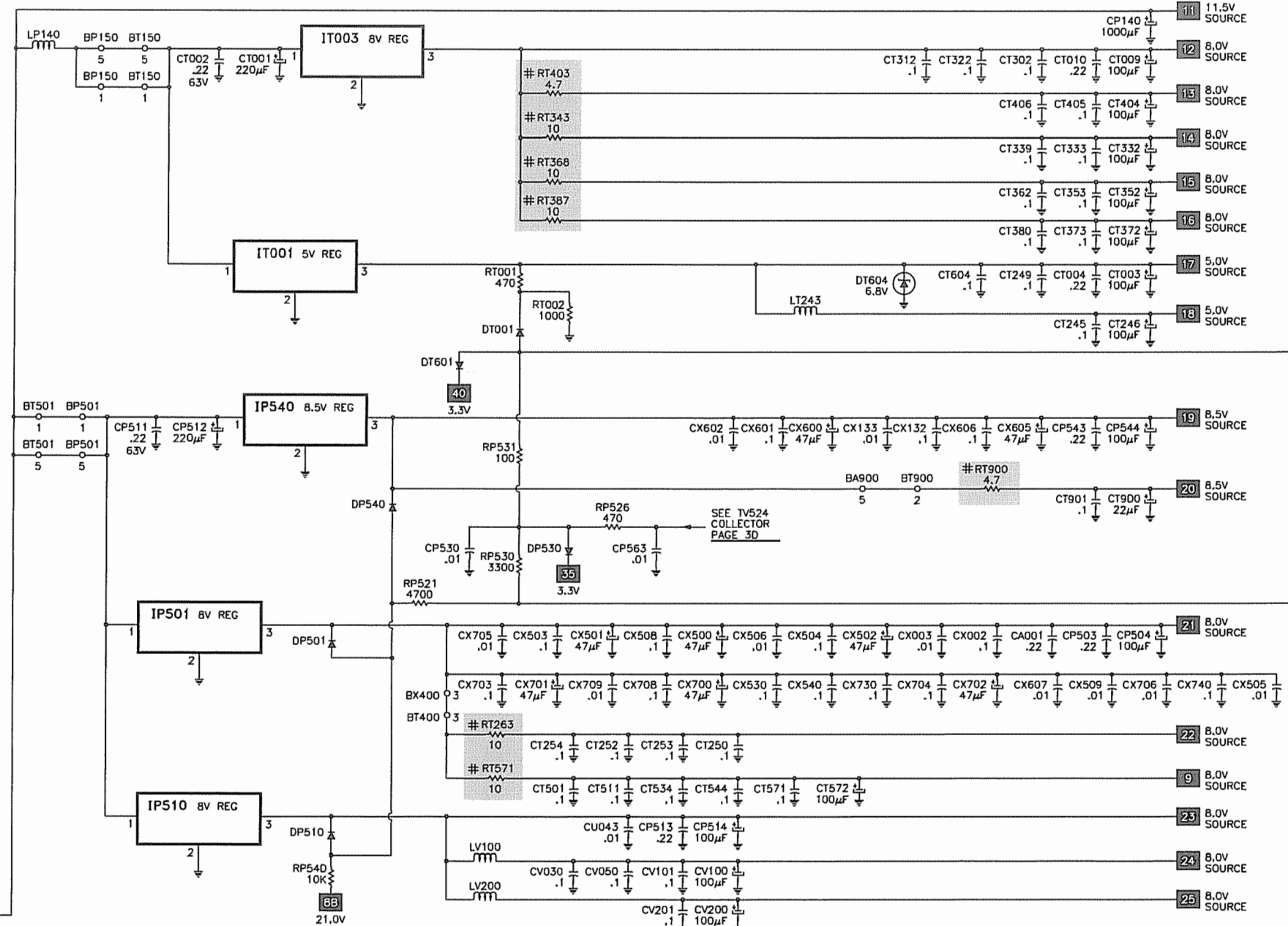
POWER SUPPLY SCHEMATIC continued

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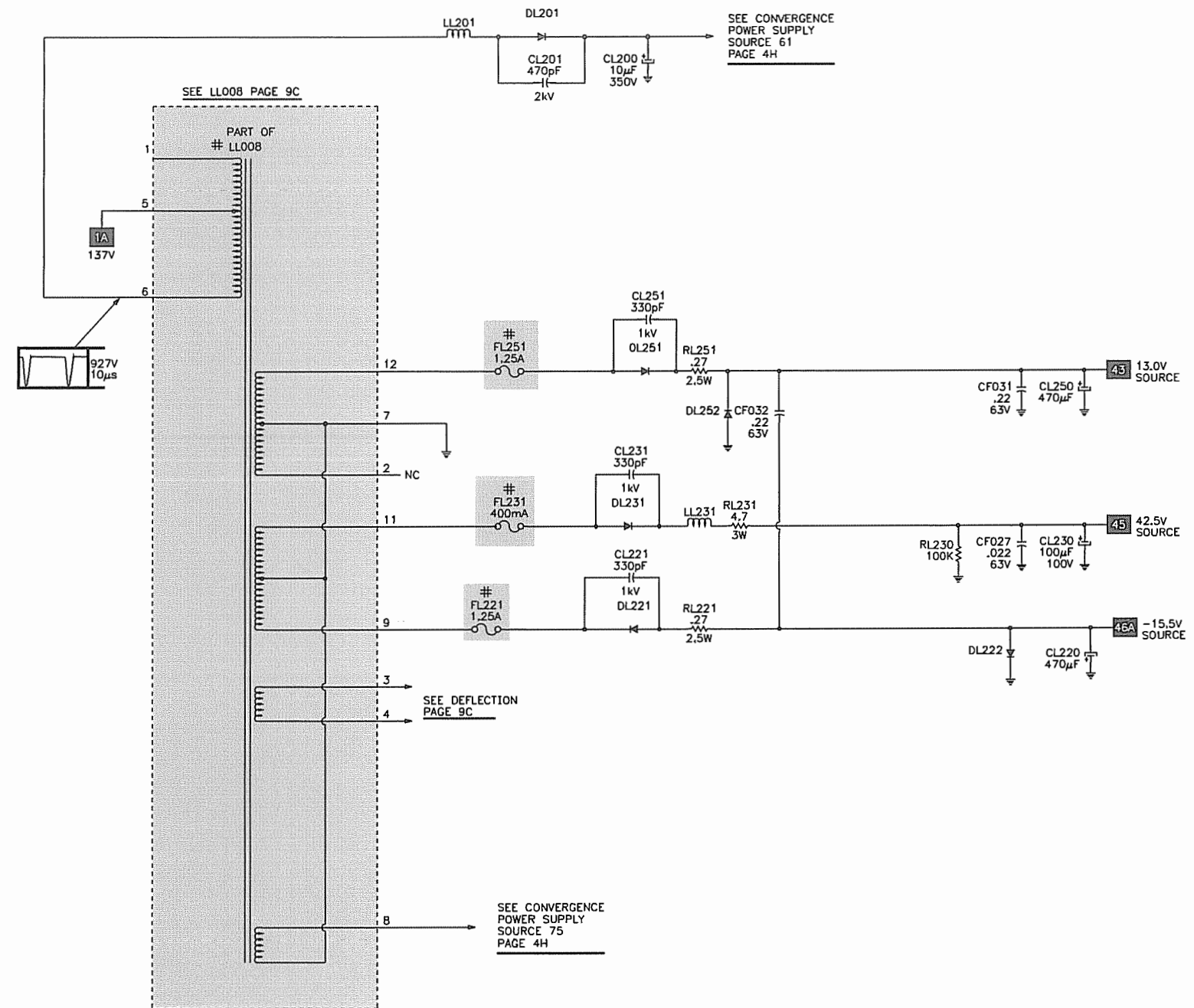
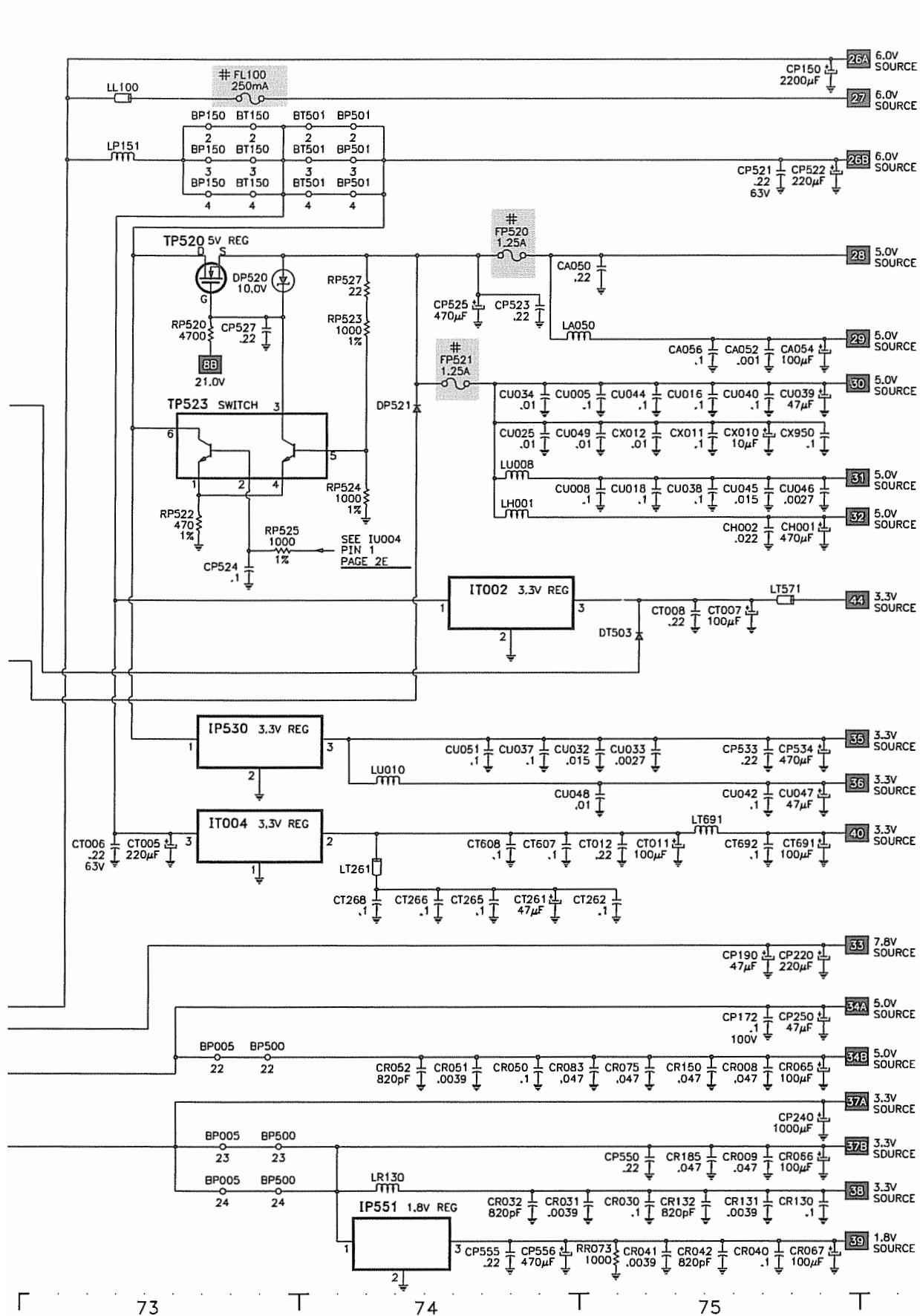
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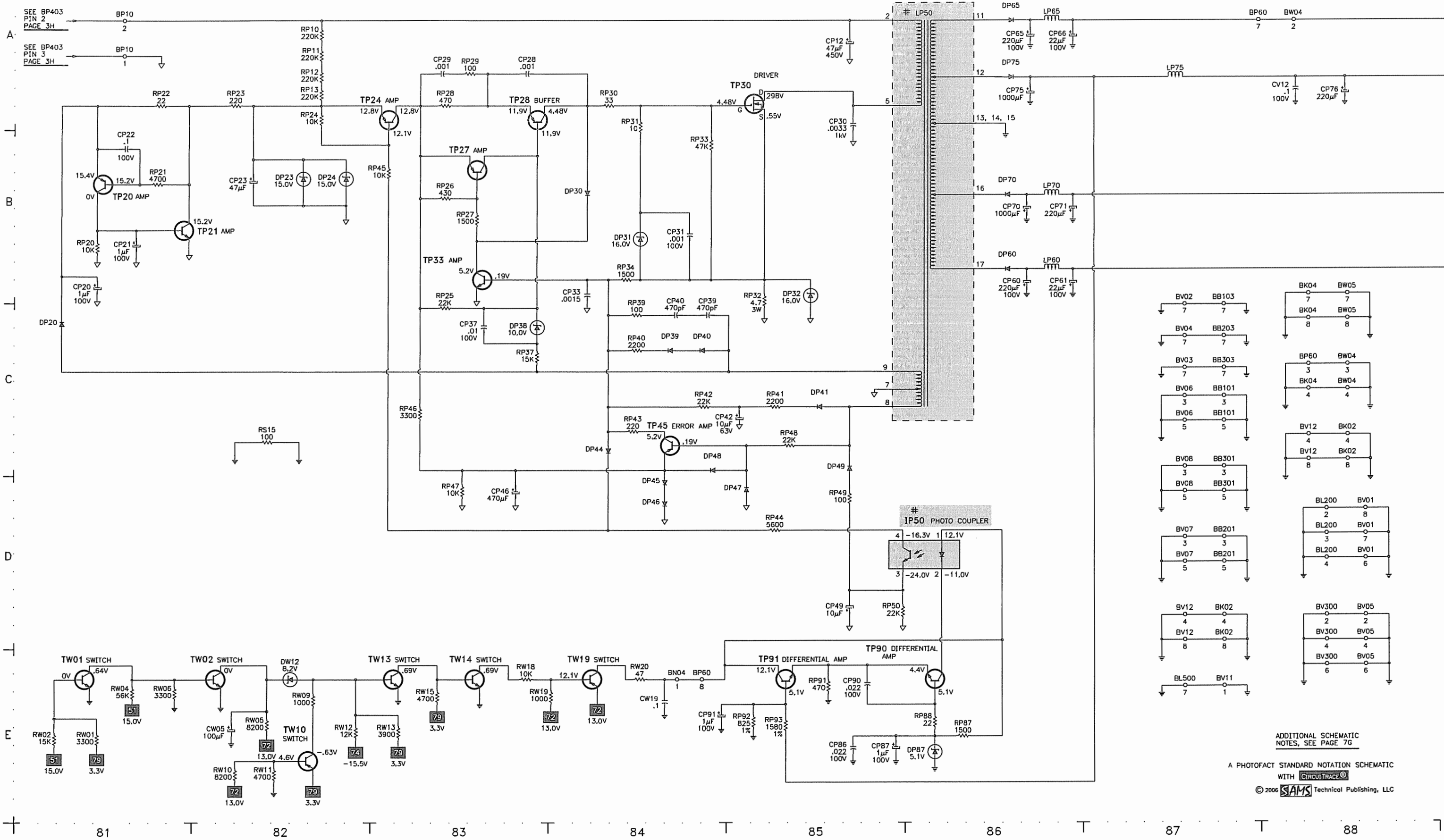


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 7G

POWER SUPPLY SCHEMATIC continued



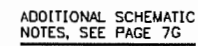
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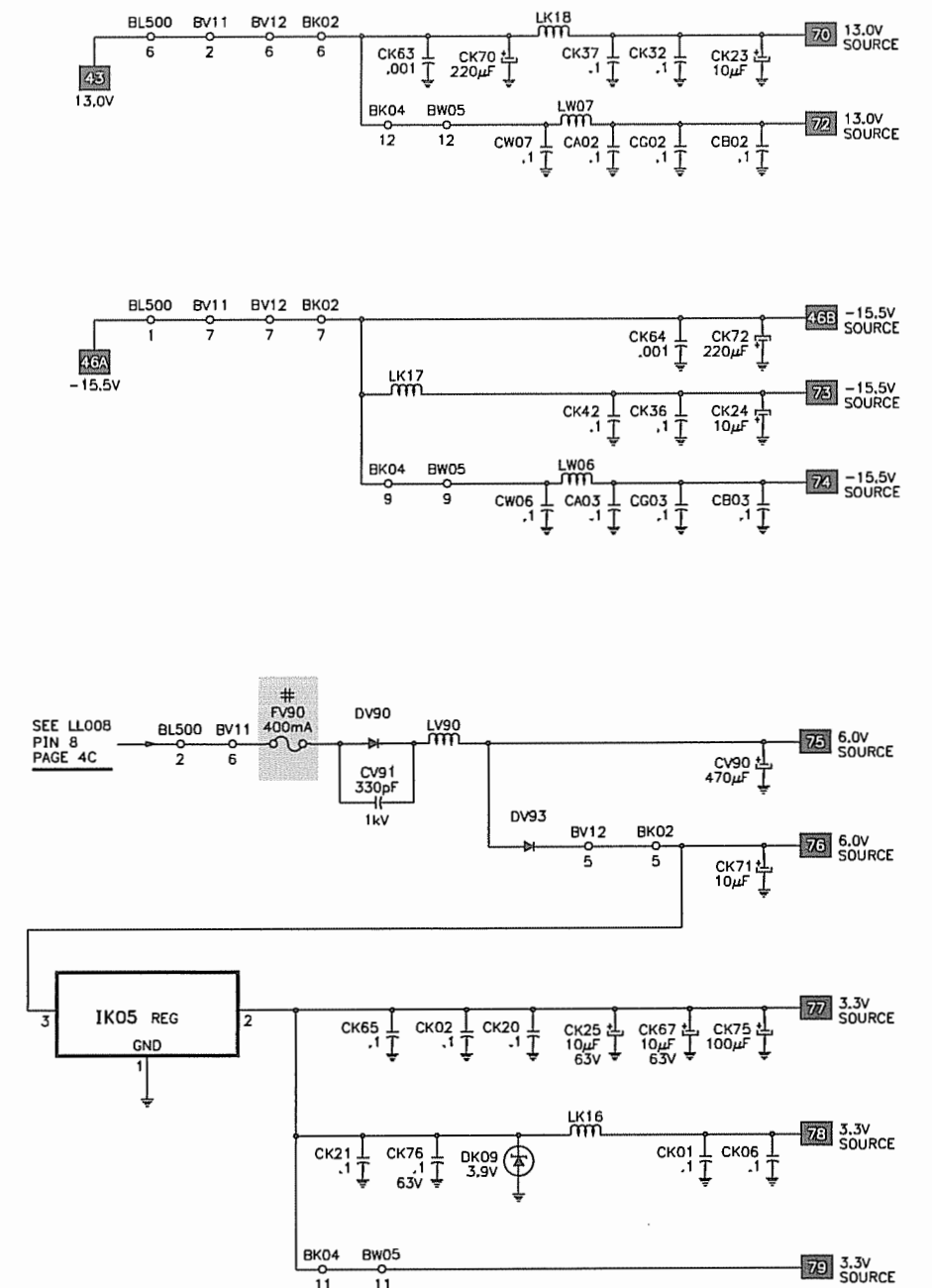
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SEE LLO08
PIN 6
PAGE 4C



MODEL D40W20VY1 (CHASSIS ATC221)

A



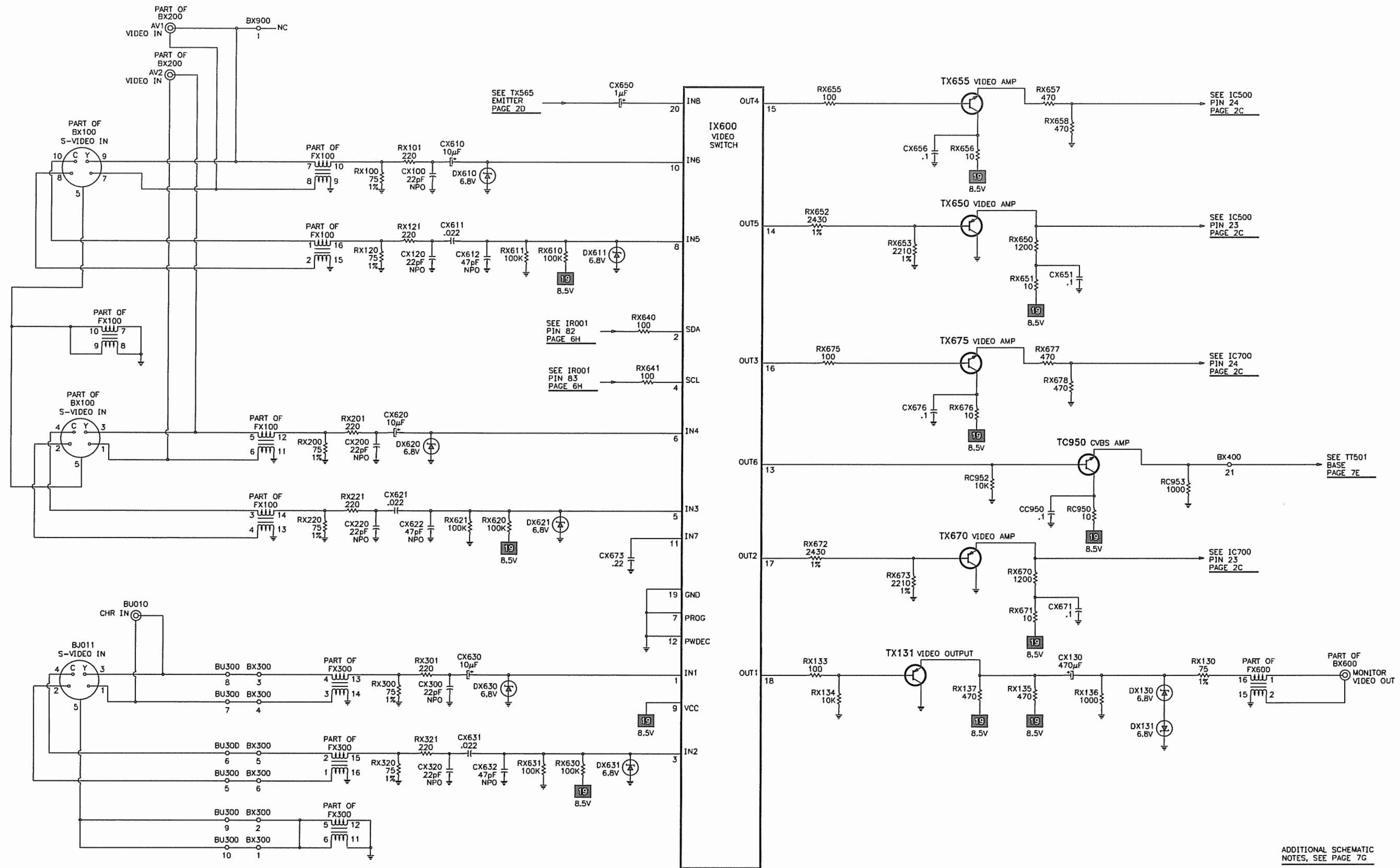
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F



VIDEO SWITCHING SCHEMATIC



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RCA MODEL D40W20YX1 (CHASSIS ATC221)

A

B

VIDEO SWITCHING SCHEMATIC continued

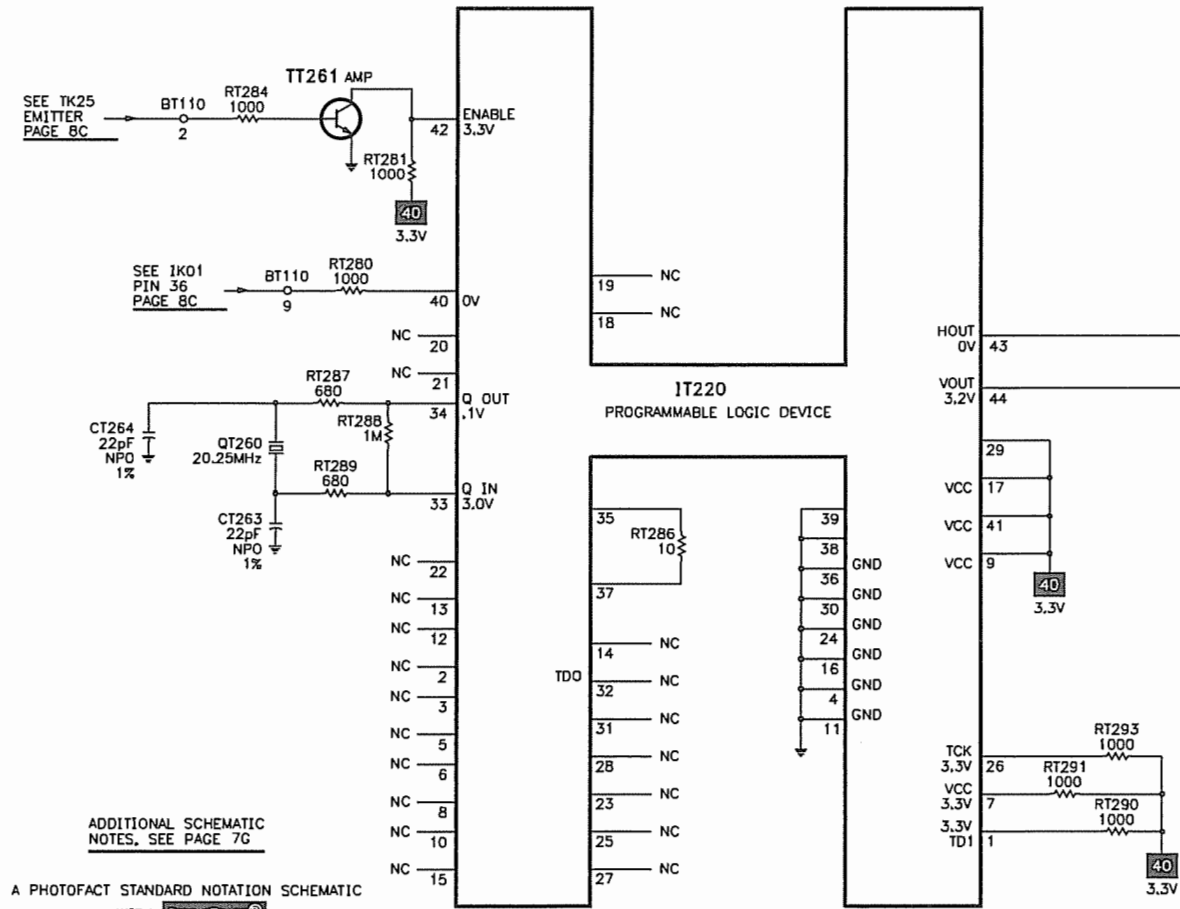
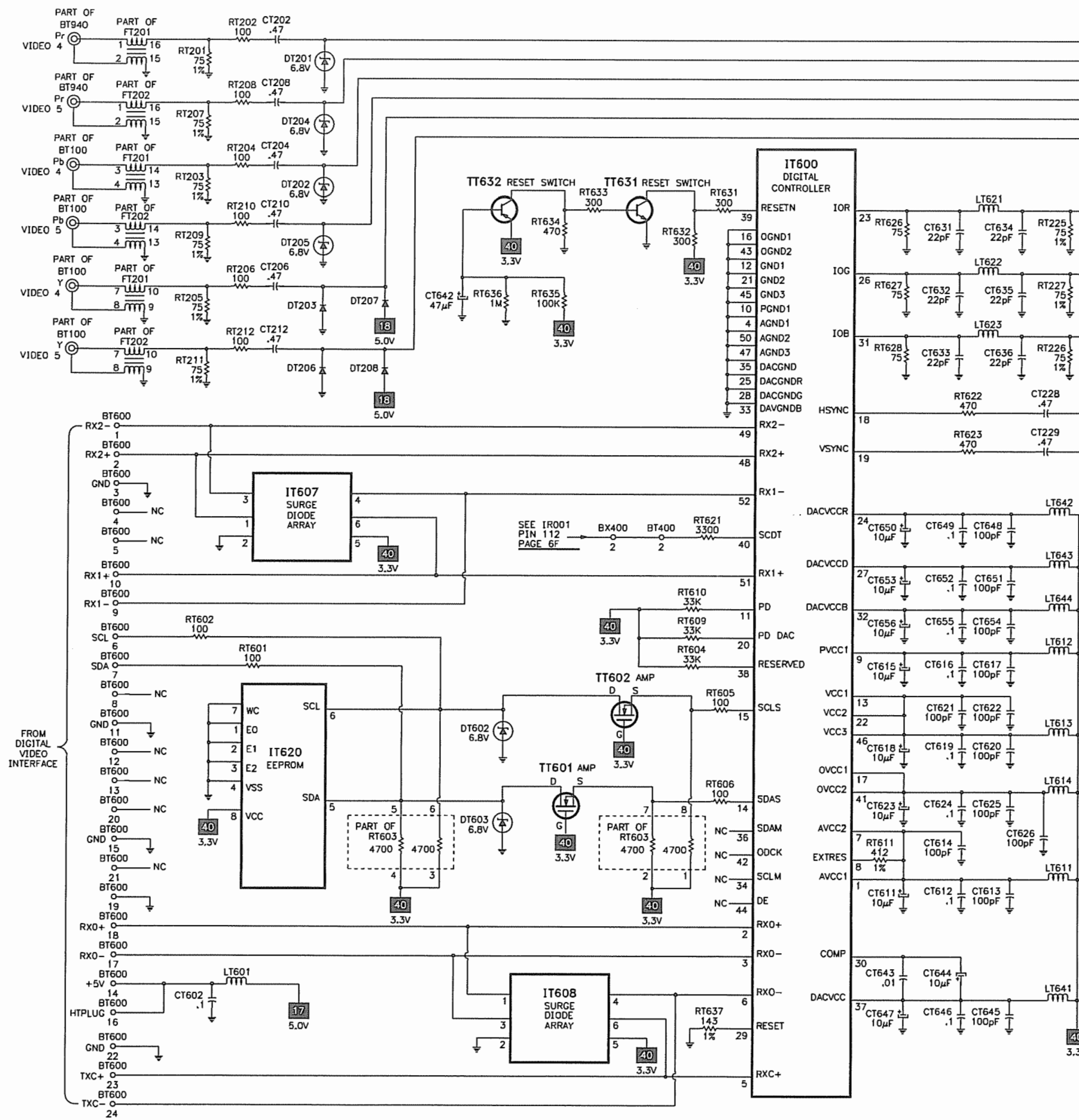
A

B

C

D

E



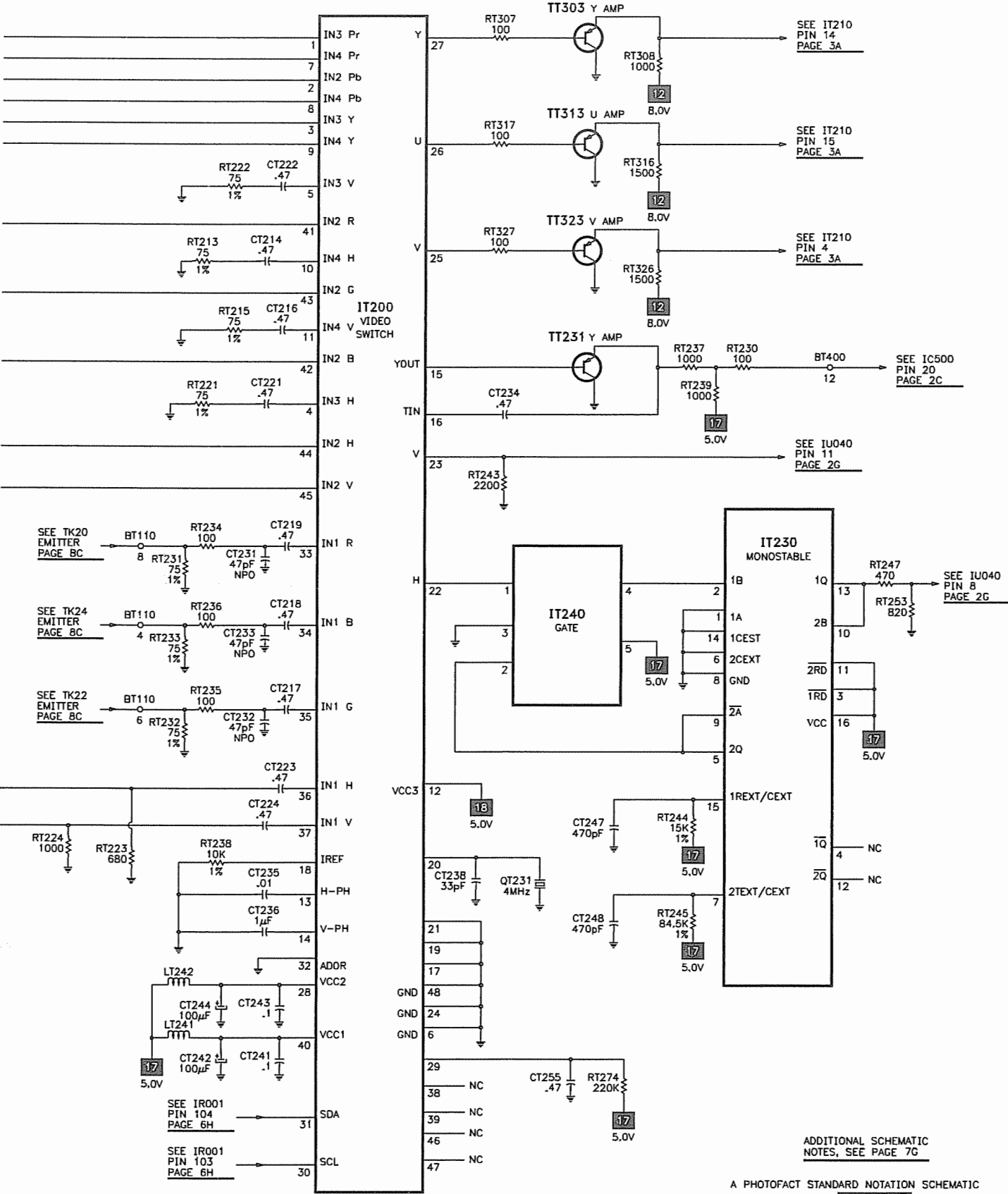
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C
VIDEO SWITCHING SCHEMATIC continued

TEST EQUIPMENT

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

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

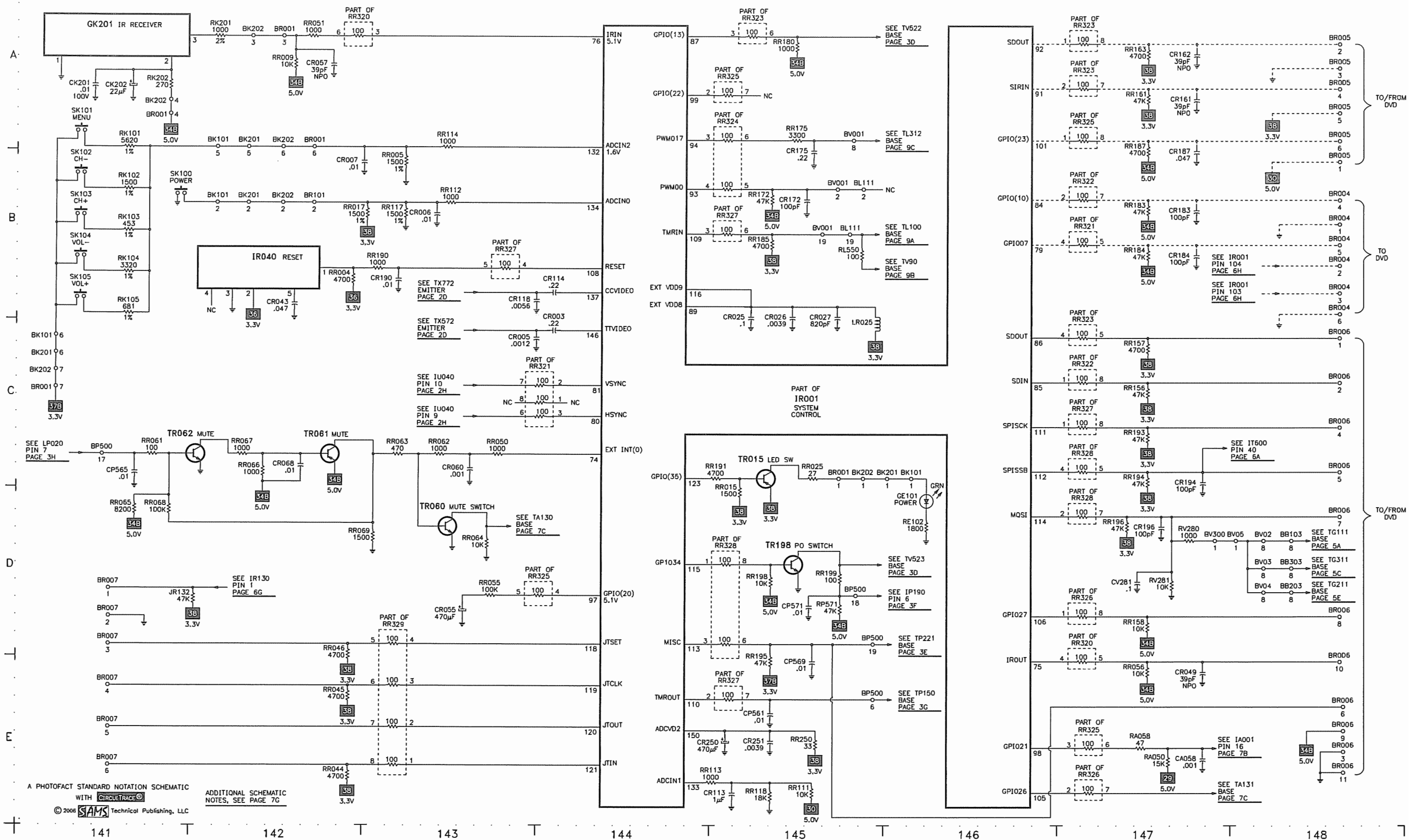


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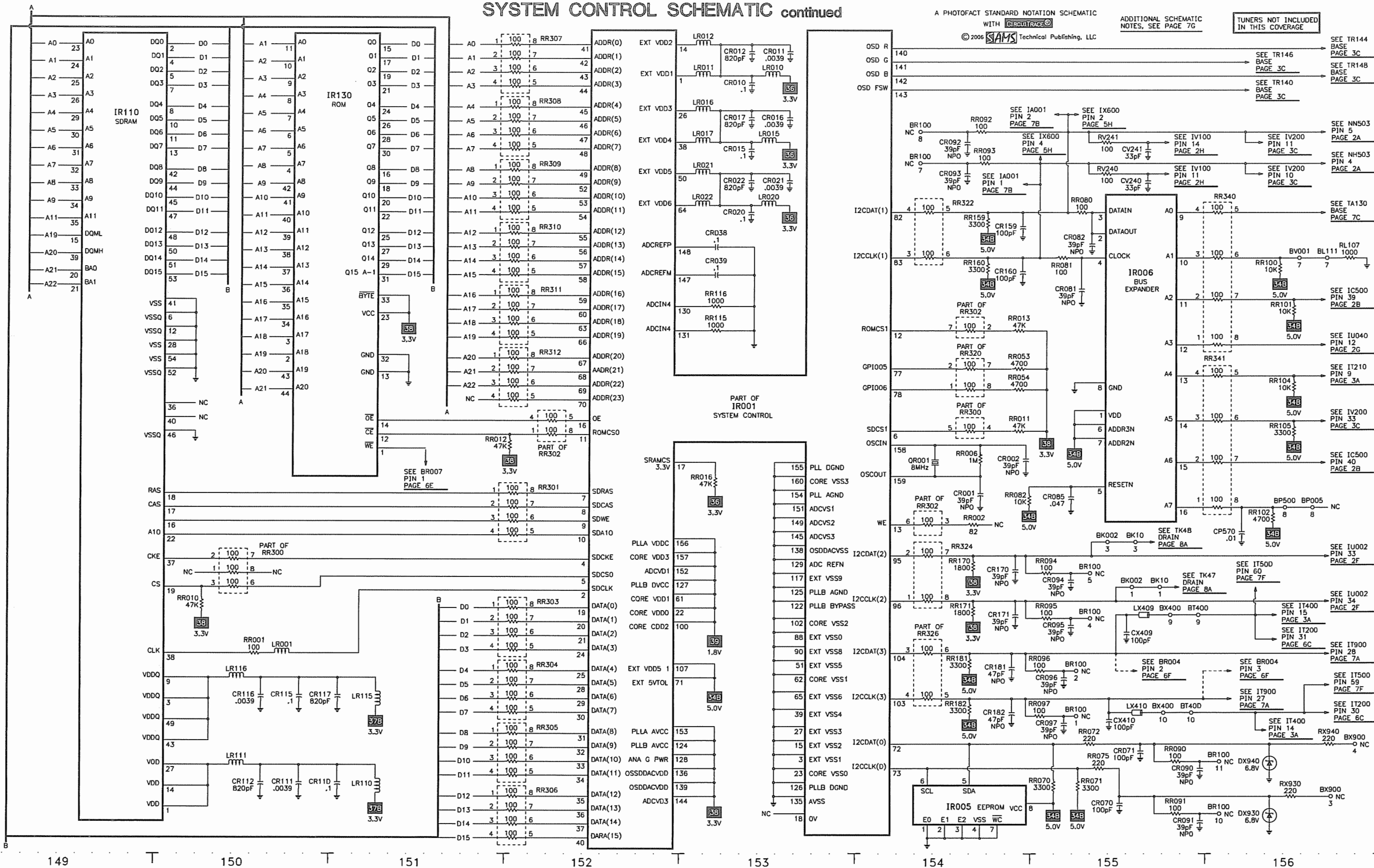
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SYSTEM CONTROL SCHEMATIC



SYSTEM CONTROL SCHEMATIC continued



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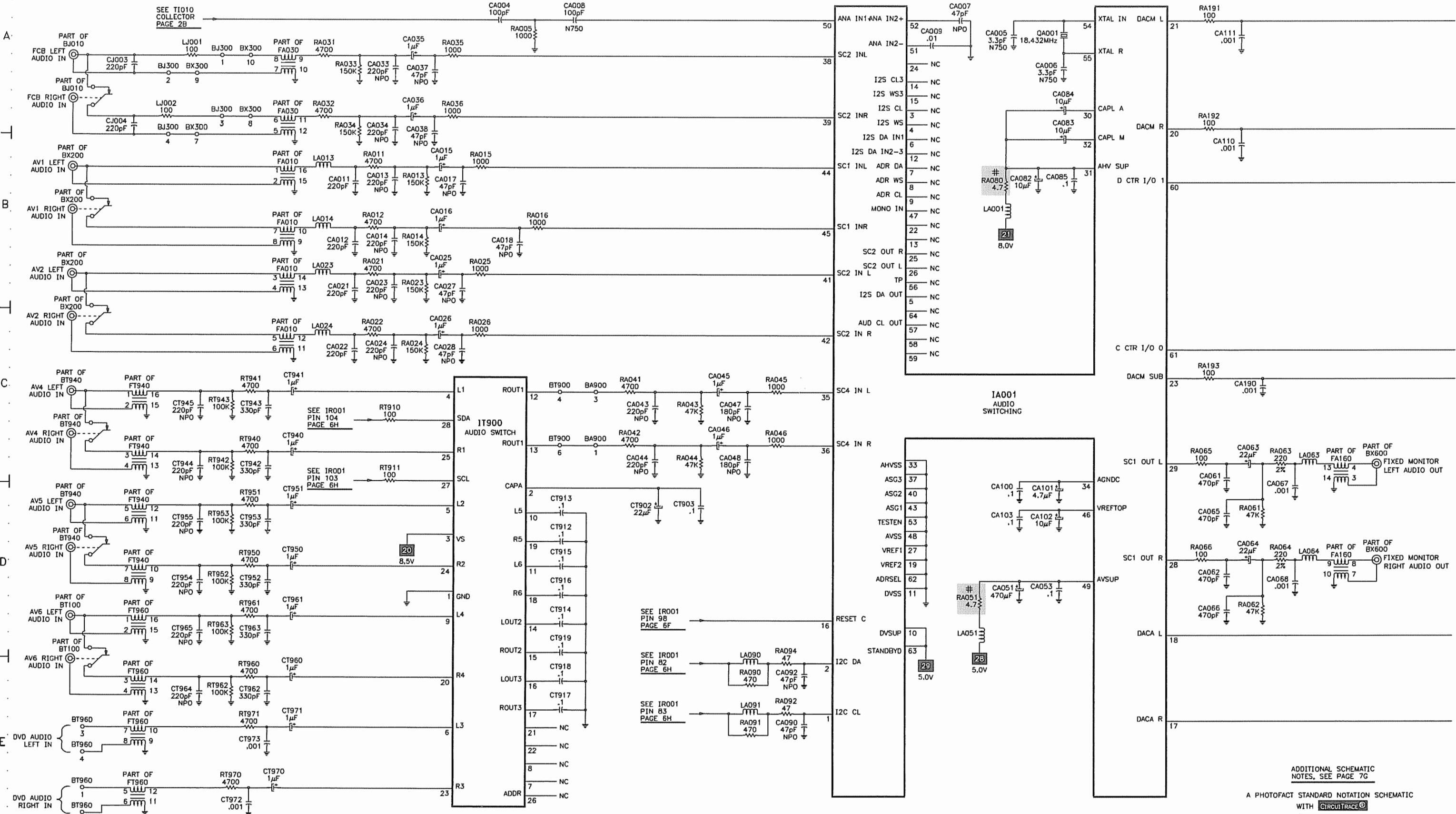
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A

AUDIO SCHEMATIC

B

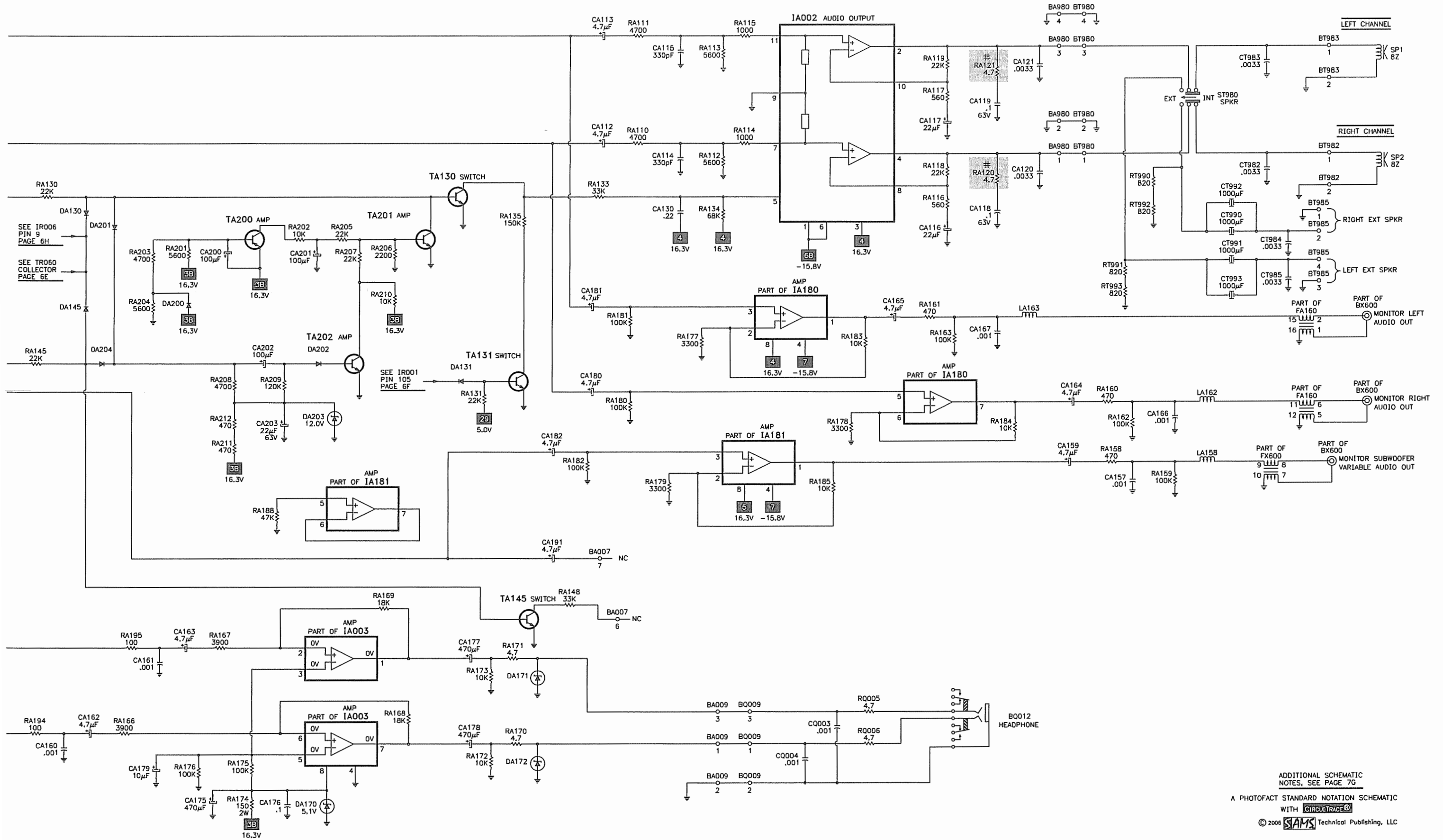


ADDITIONAL SCHEMATIC NOTES, SEE PAGE 7G

A PHOTOFAC STANDARD NOTATION SCHEMATIC WITH CIRCUITTRACE

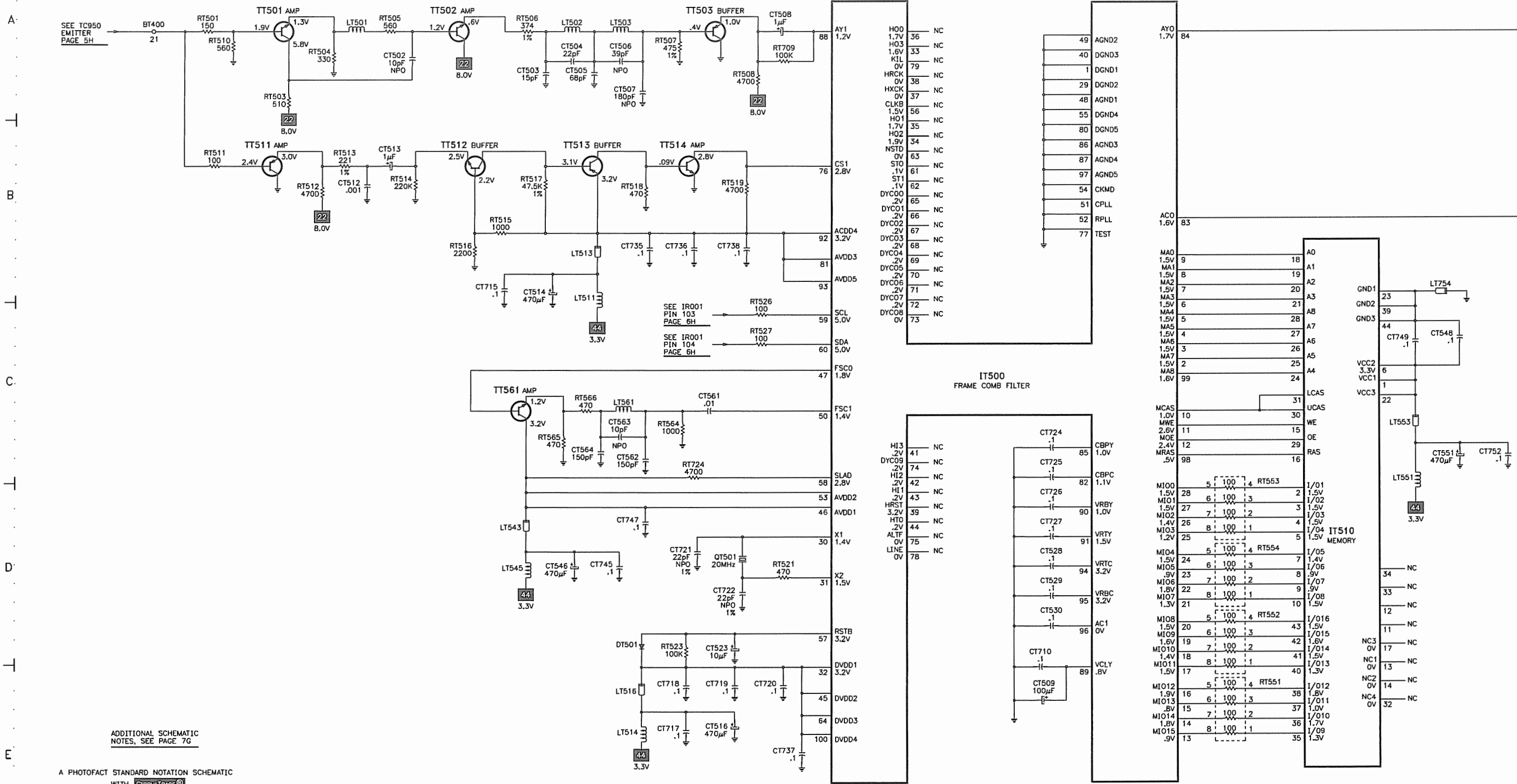
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AUDIO SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 7G
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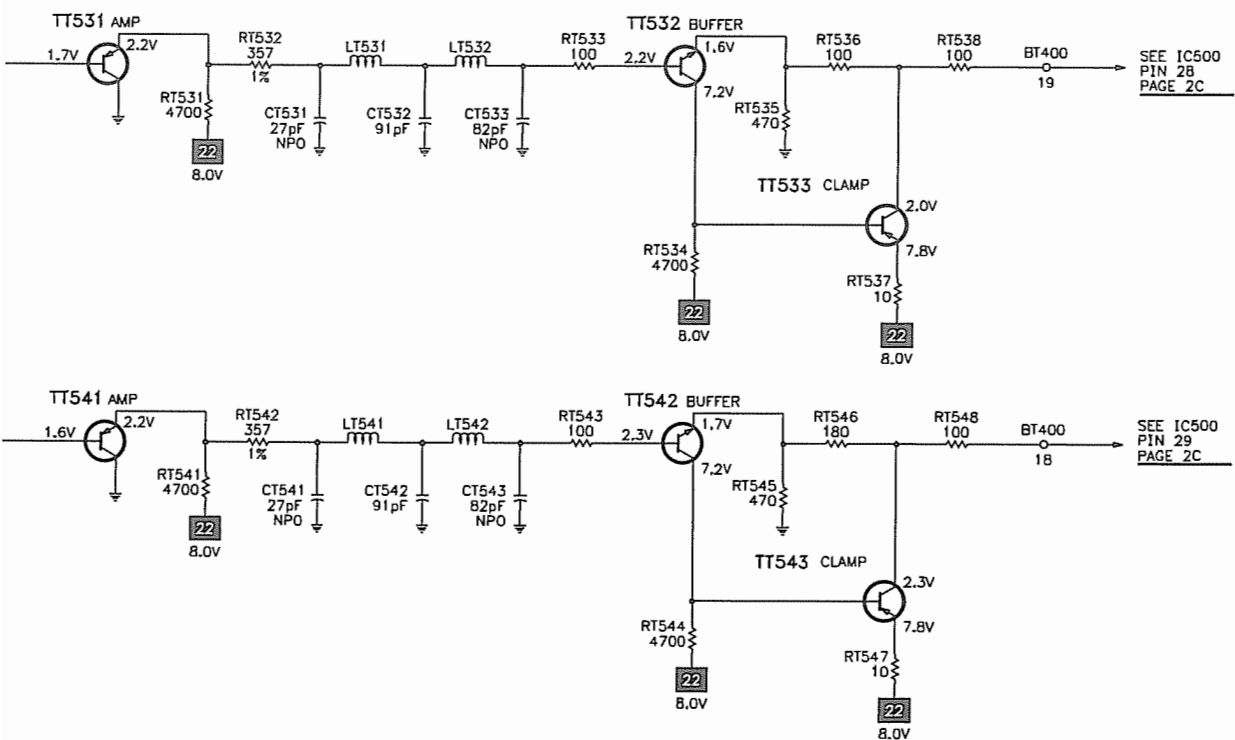
COMB FILTER SCHEMATIC



ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 7G

A PHOTOFAC STANDARD NOTATION SCHEMATIC
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G
COMB FILTER SCHEMATIC continued



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

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

Important Parts Information

- Parts not listed in the parts list are commonly available at your local electronics parts retailer.
- 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:

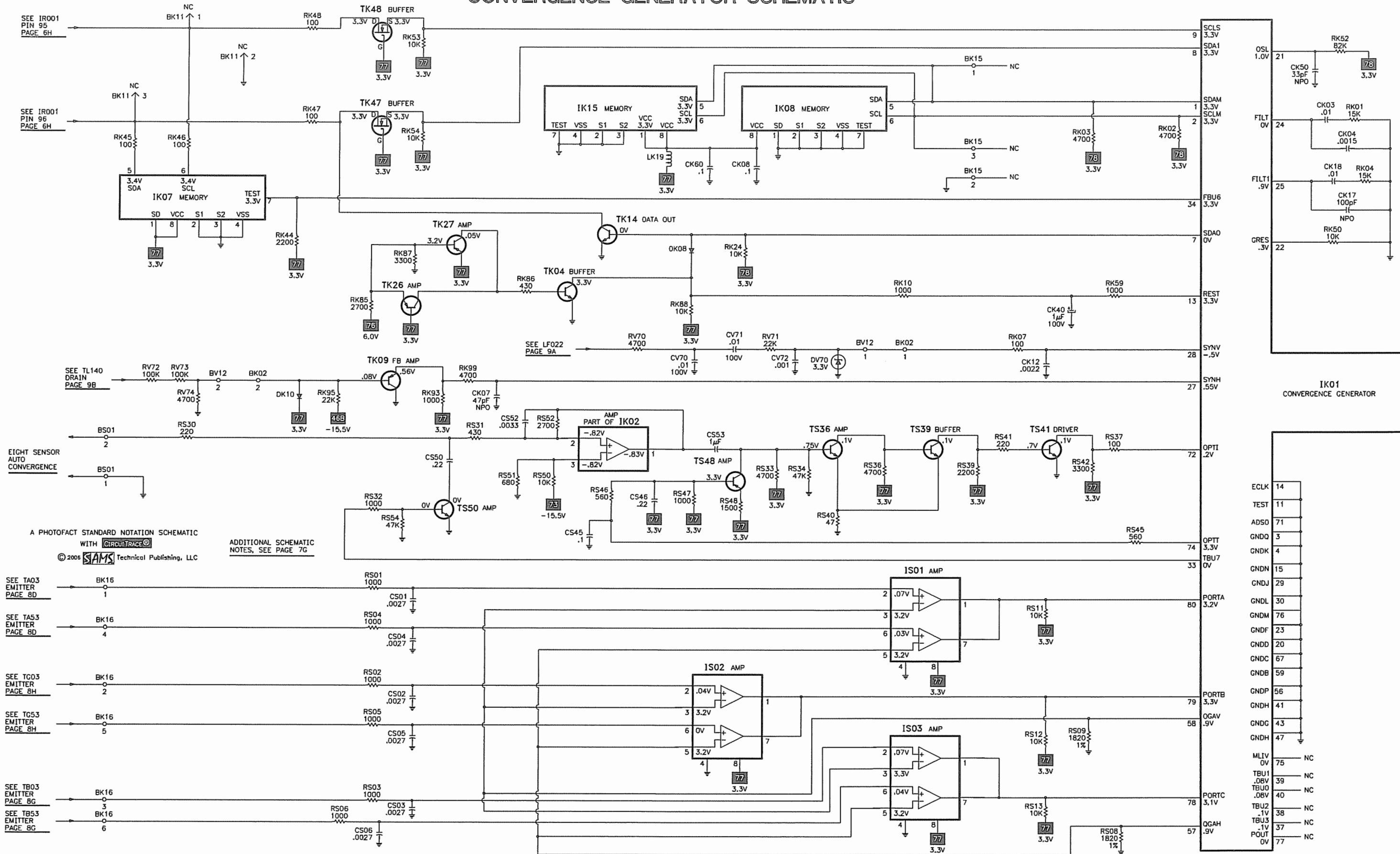
800-428-7267

Participating Vendors

Information on test equipment and replacement parts is listed in these pages for the following participating vendors.

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

CONVERGENCE GENERATOR SCHEMATIC



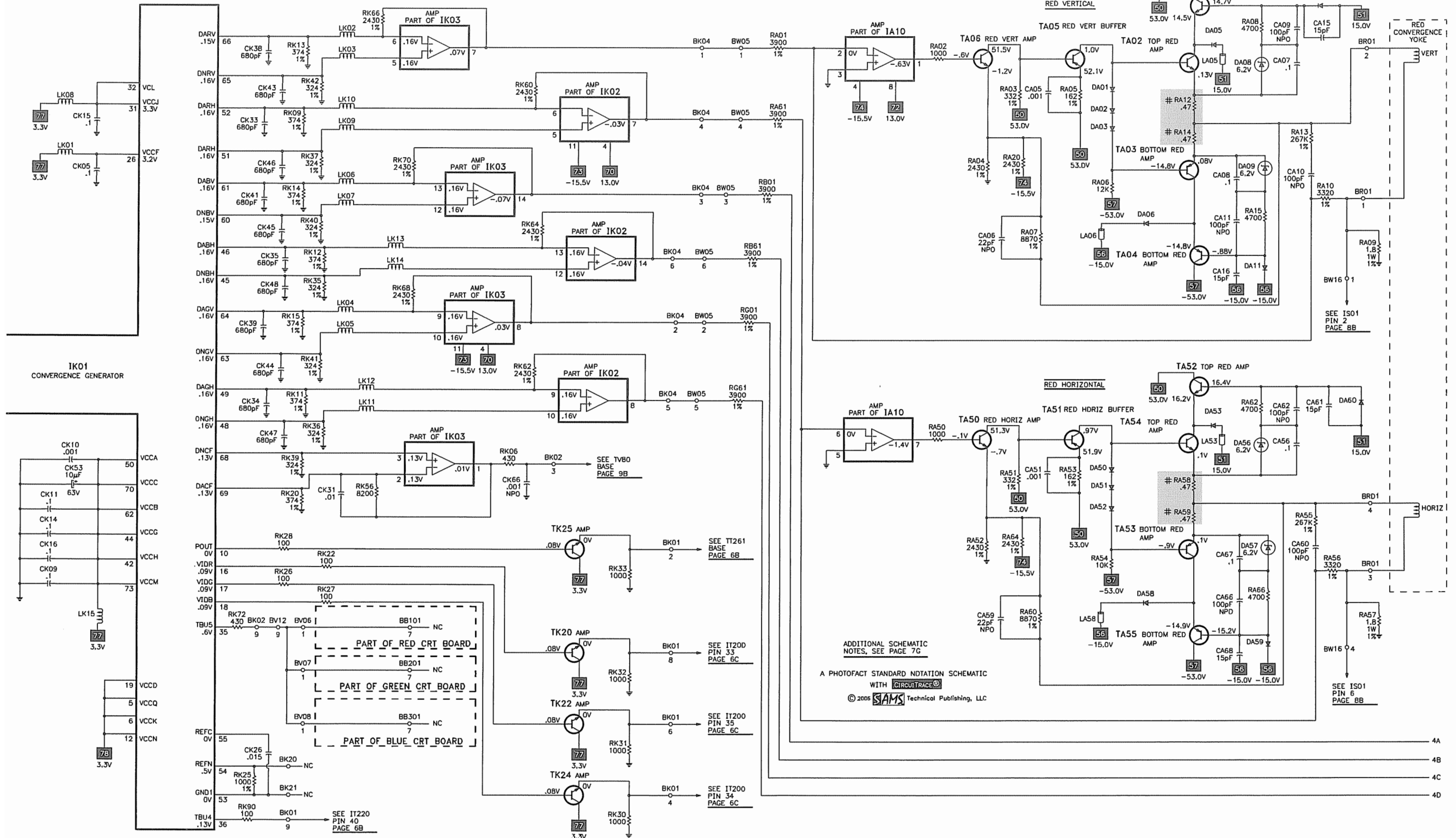
A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH **CIRCUITTRACE**
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ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 7G

- SEE TA03 EMITTER PAGE 8D
- SEE TA53 EMITTER PAGE 8D
- SEE TG03 EMITTER PAGE 8H
- SEE TC53 EMITTER PAGE 8H
- SEE TB03 EMITTER PAGE 8G
- SEE TB53 EMITTER PAGE 8G

ECLK	14
TEST	11
ADSO	71
GNDQ	3
GNDK	4
GNDN	15
GNDJ	29
GNDL	30
GNDM	76
GNDP	23
GNDQ	20
GNDK	67
GNDJ	59
GNDP	56
GNDH	41
GNDG	43
GNDH	47
MLIV	75
TBU1	39
TBU0	40
TBU2	38
TBU3	37
POUT	77

CONVERGENCE GENERATOR SCHEMATIC continued

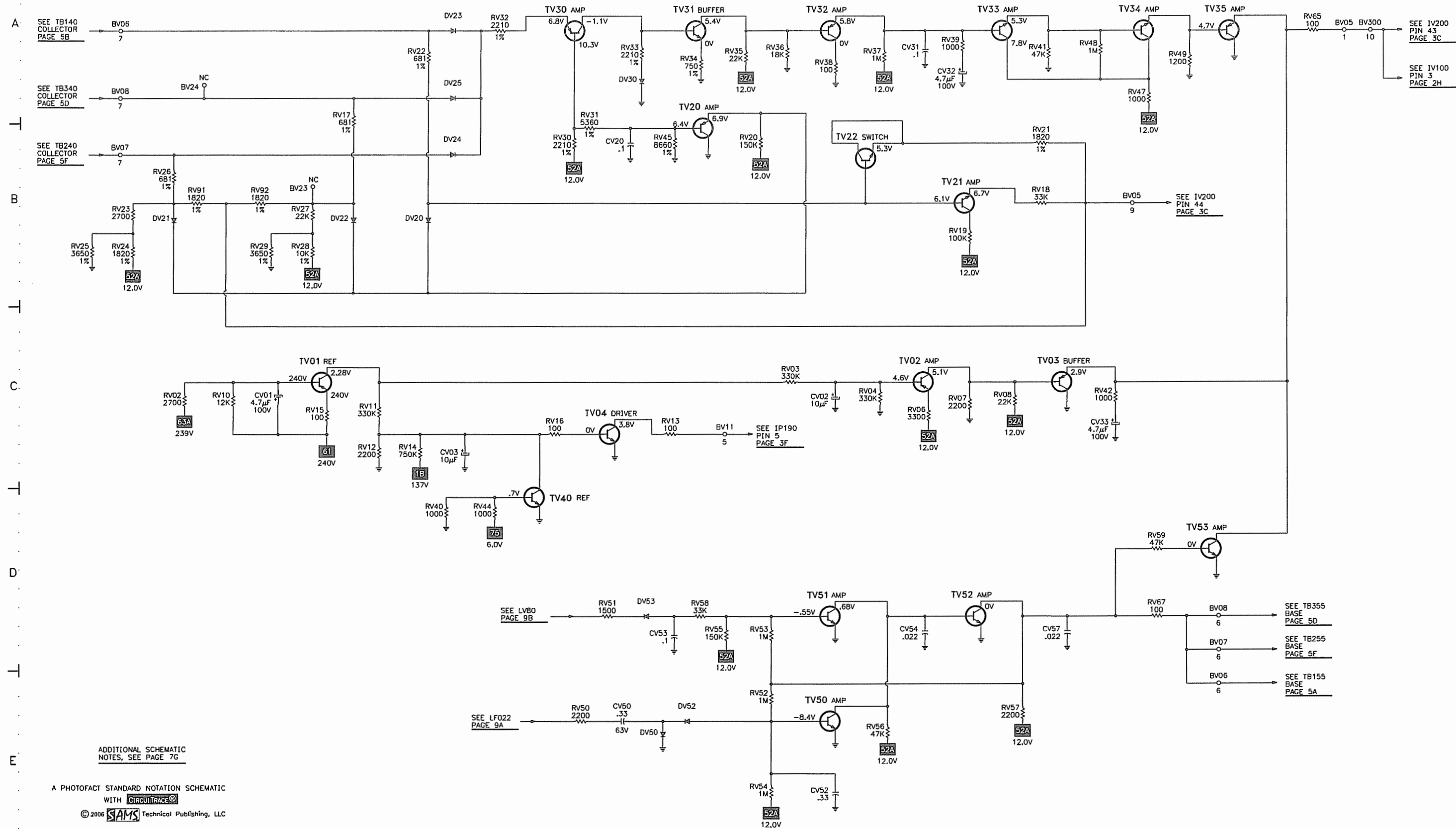


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 7G

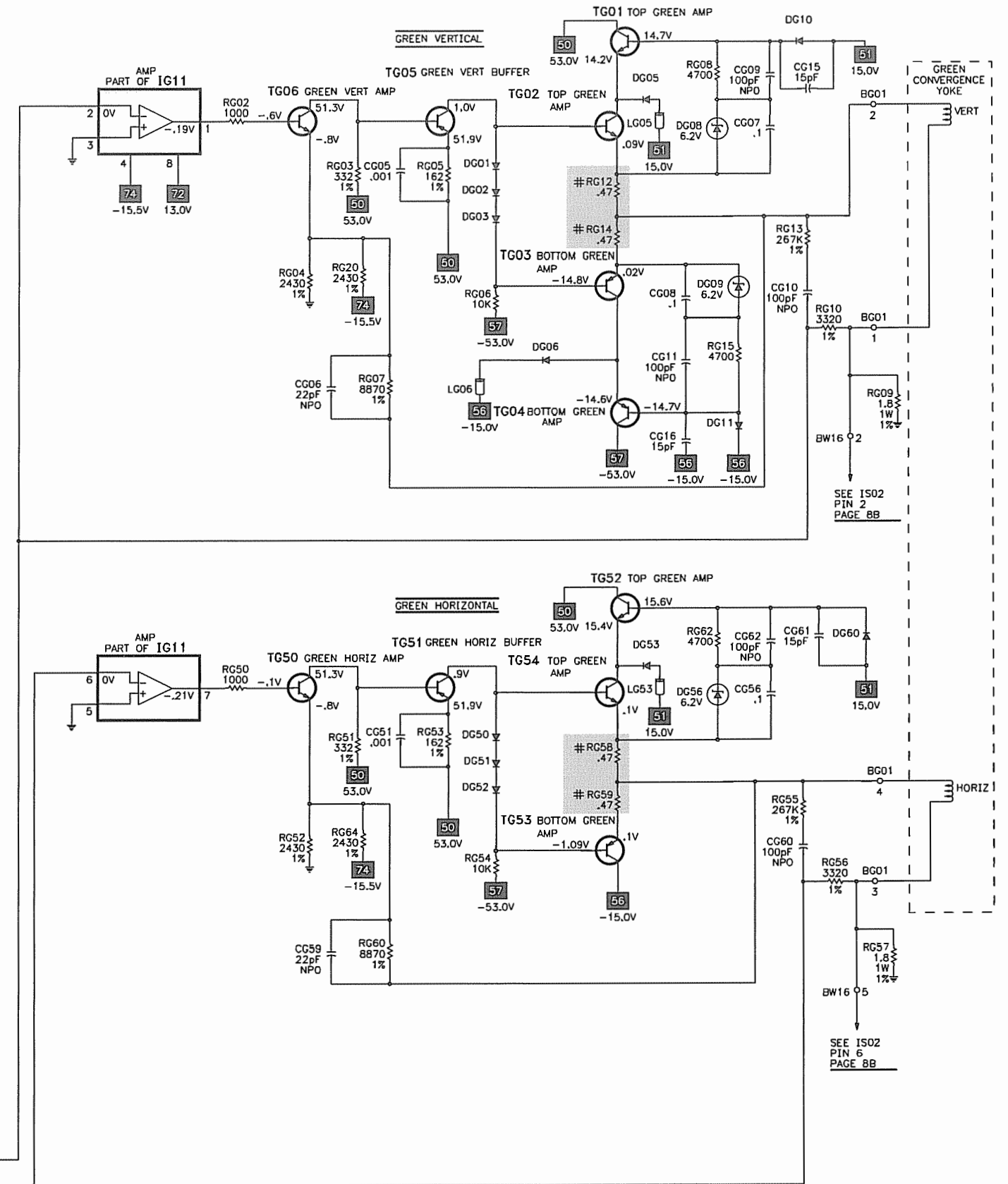
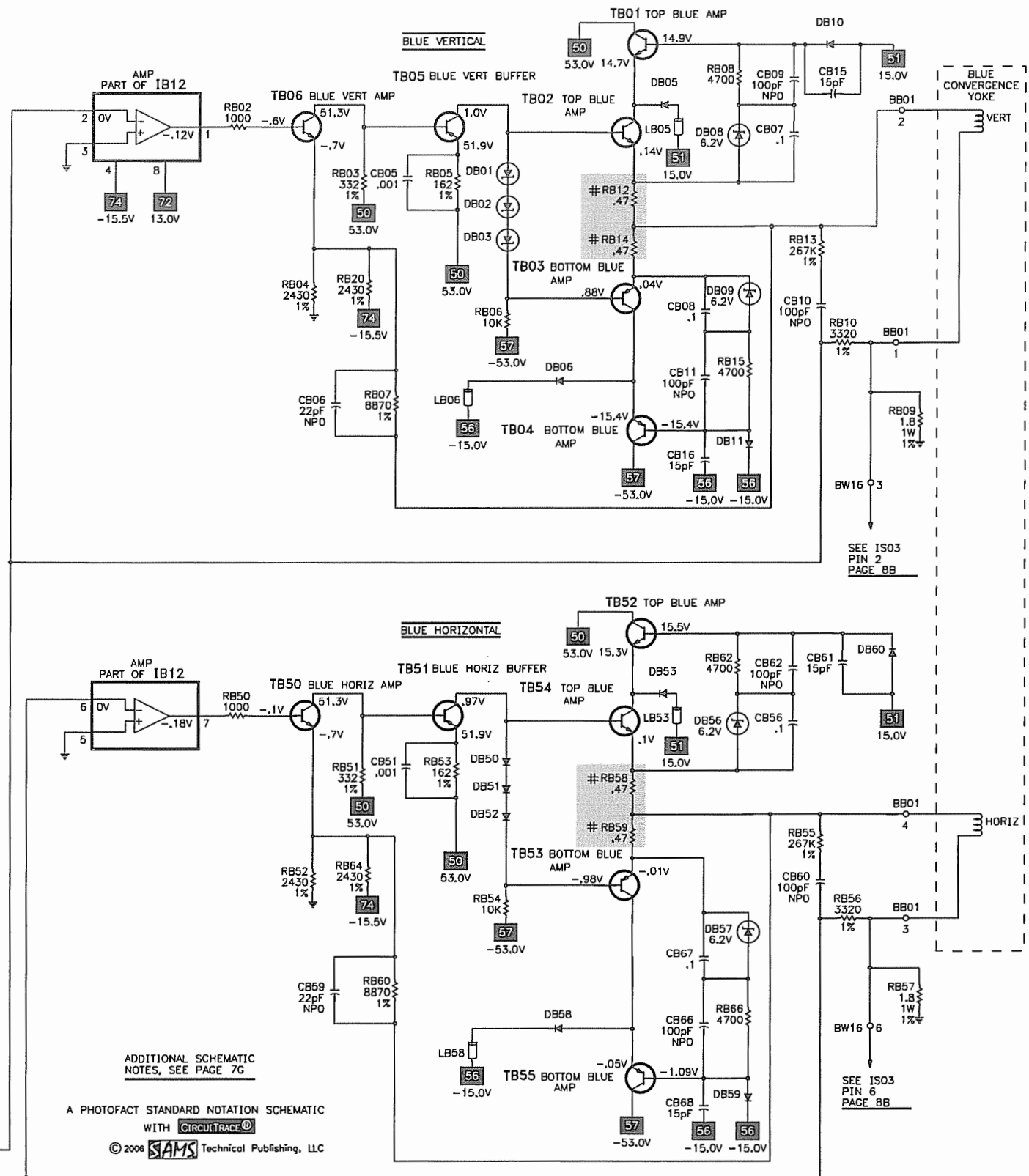
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CONVERGENCE ADAPTER SCHEMATIC



CONVERGENCE POWER AMP SCHEMATIC

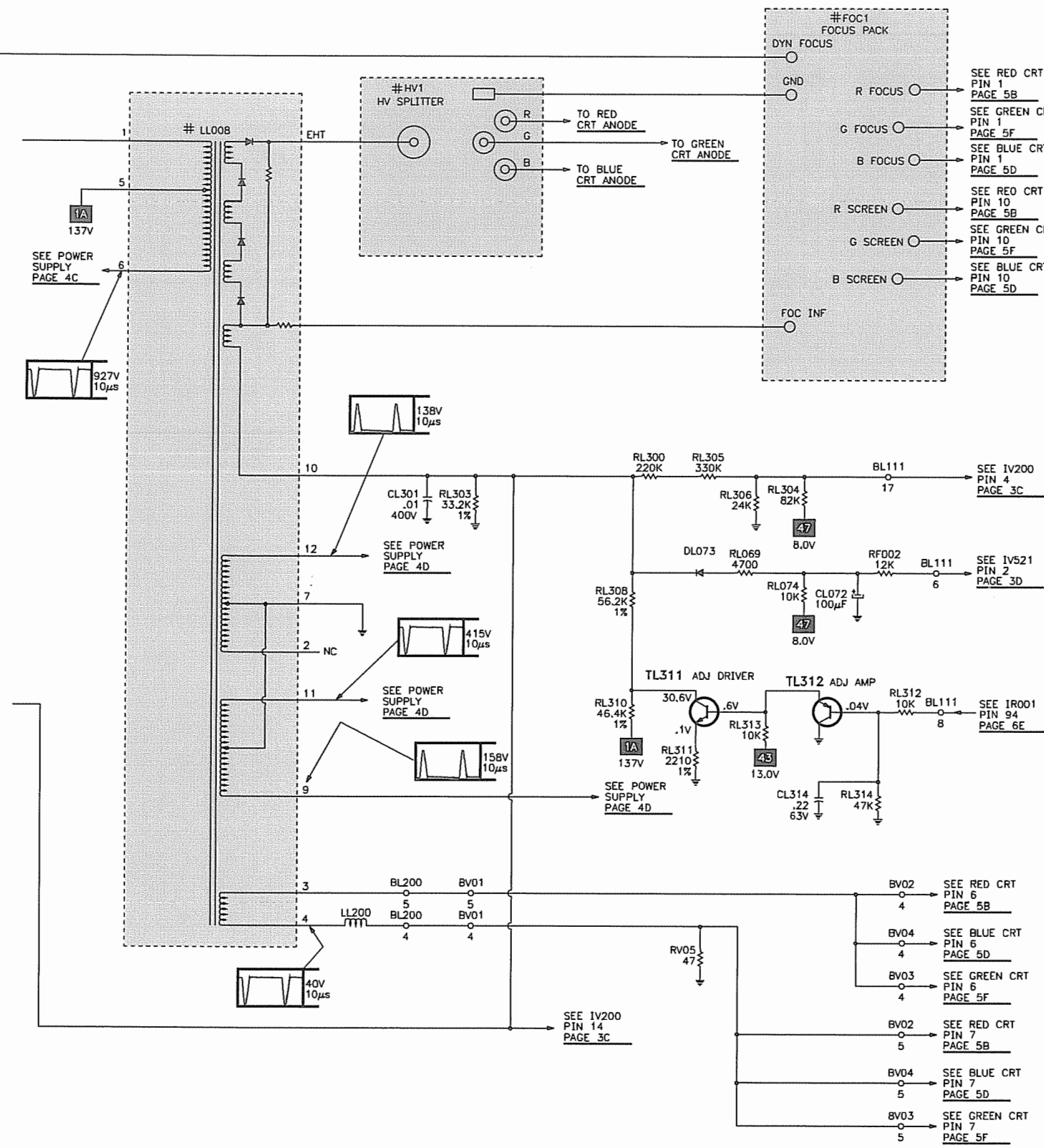


RCA
MODEL D40W20YX1 (CHASSIS ATC221)

5.

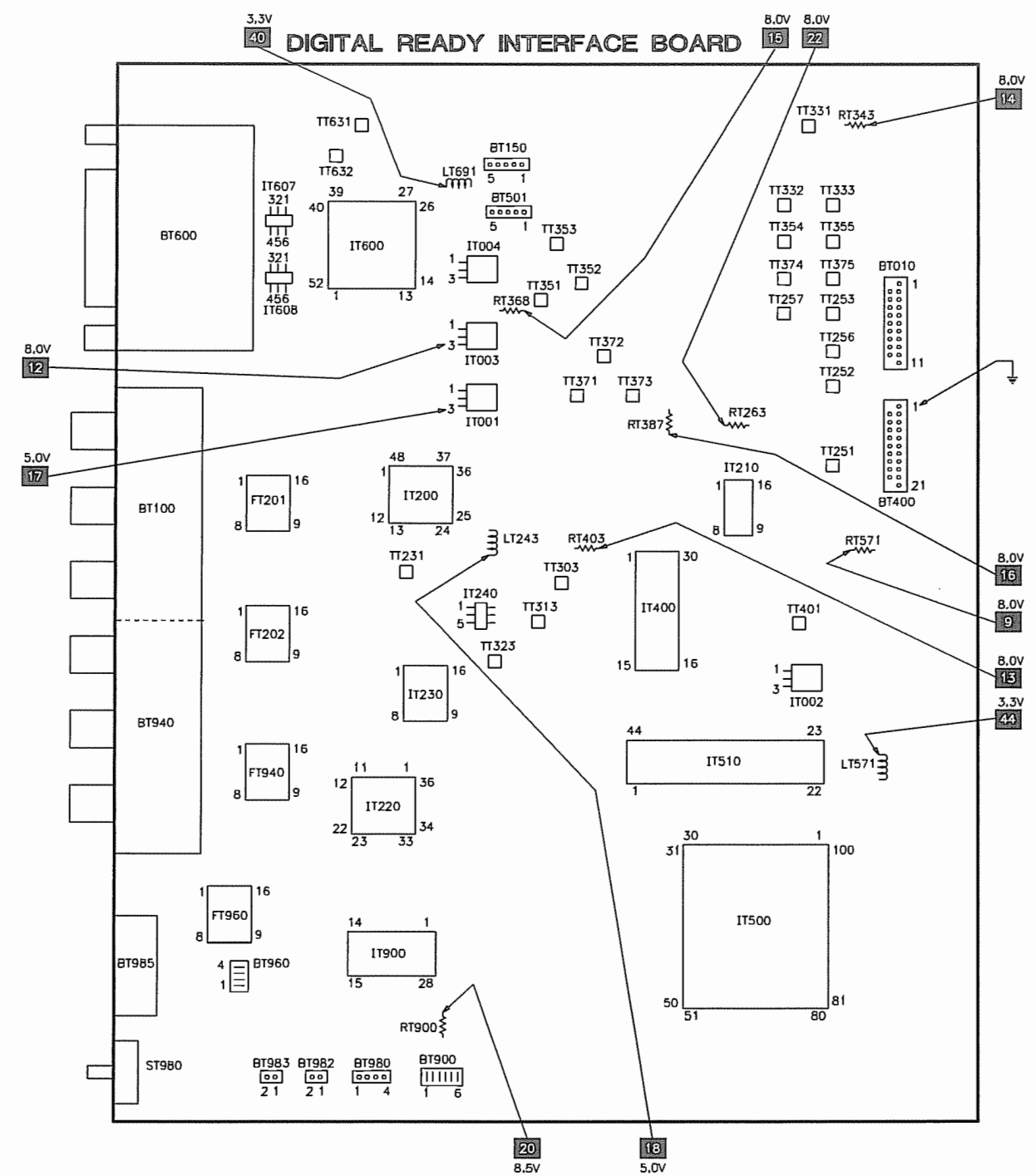


C
DEFLECTION SCHEMATIC continued



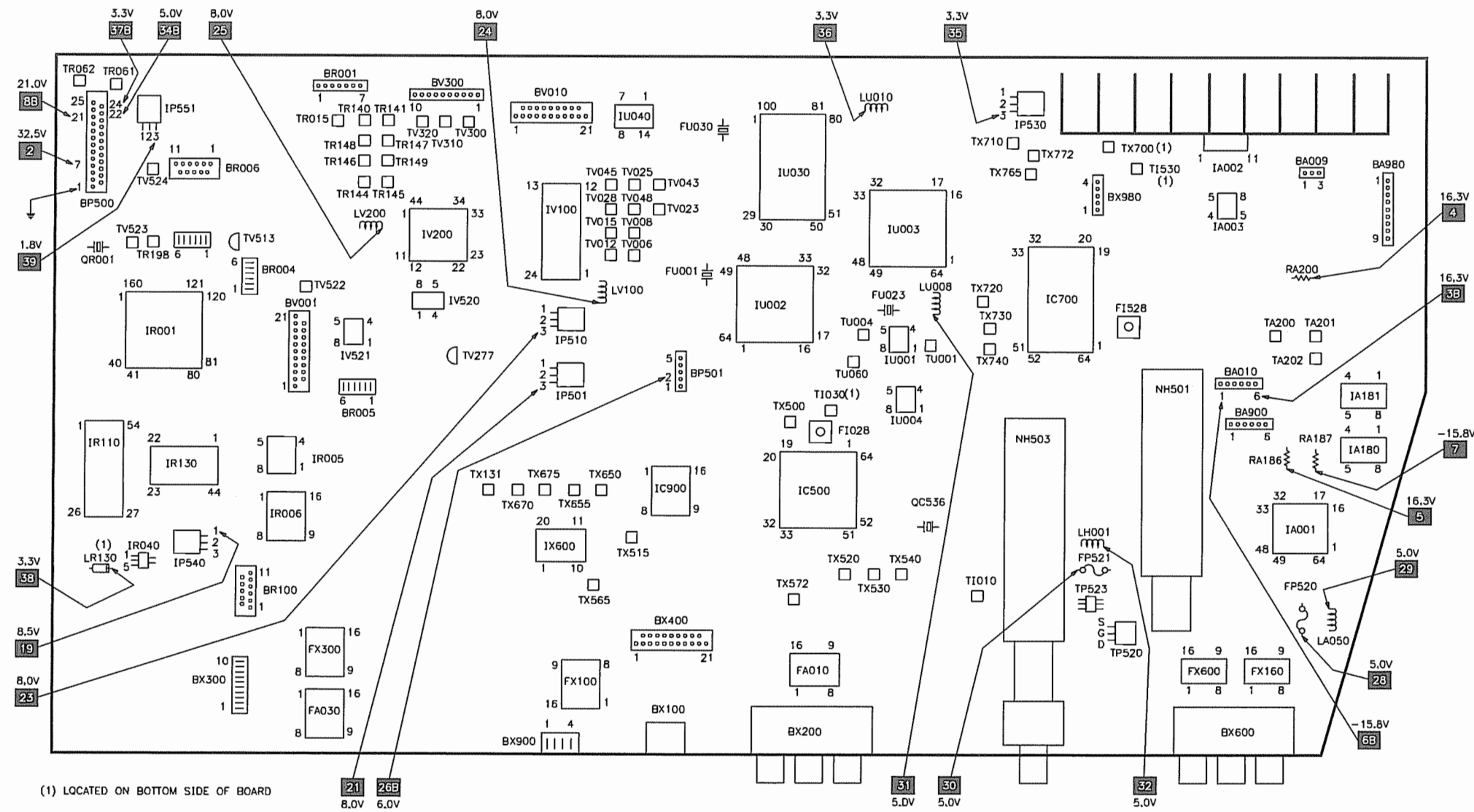
ADDITIONAL SCHEMATIC NOTES, SEE PAGE 7G
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PLACEMENT CHART



PLACEMENT CHART continued

SMALL SIGNAL BOARD



PLACEMENT CHART continued

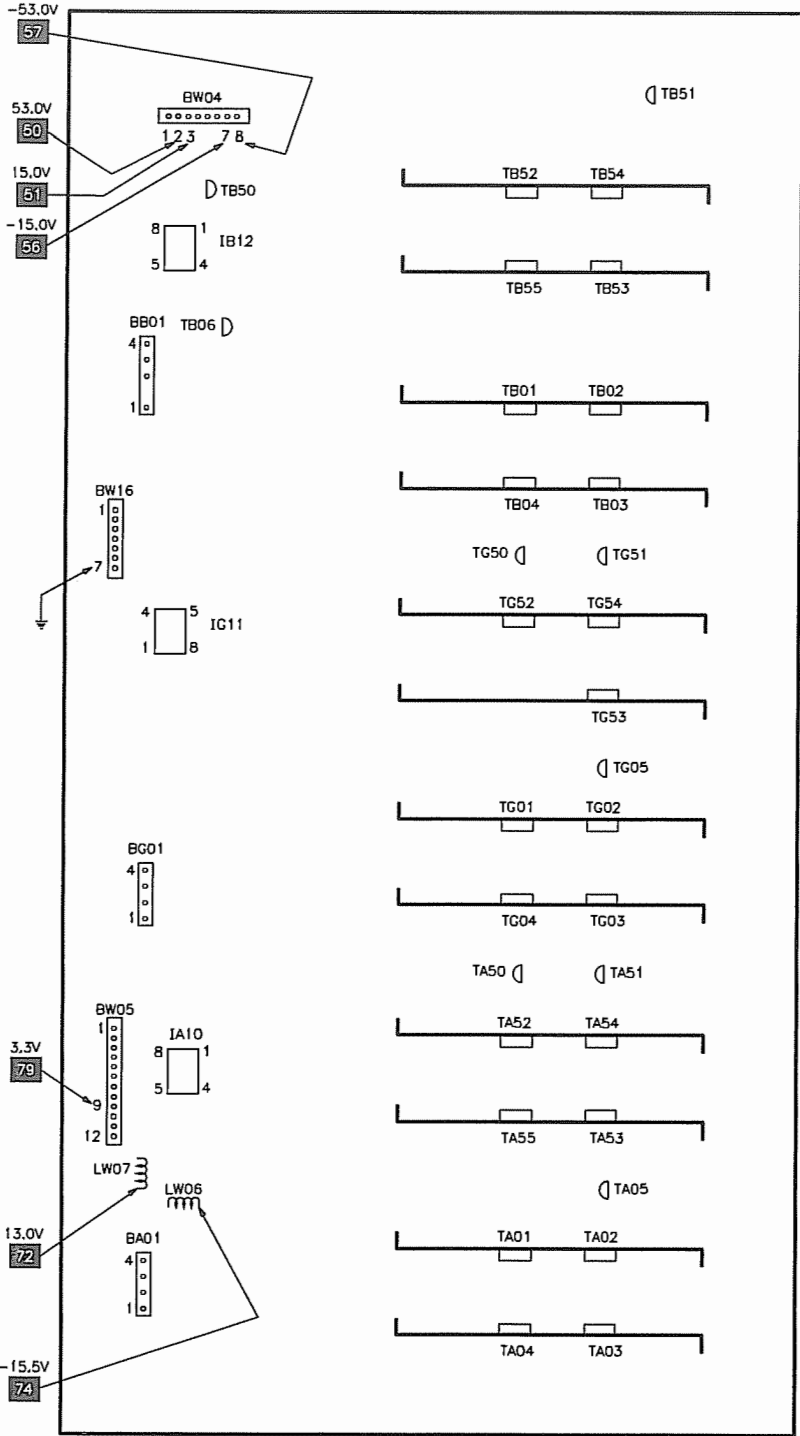


RCA

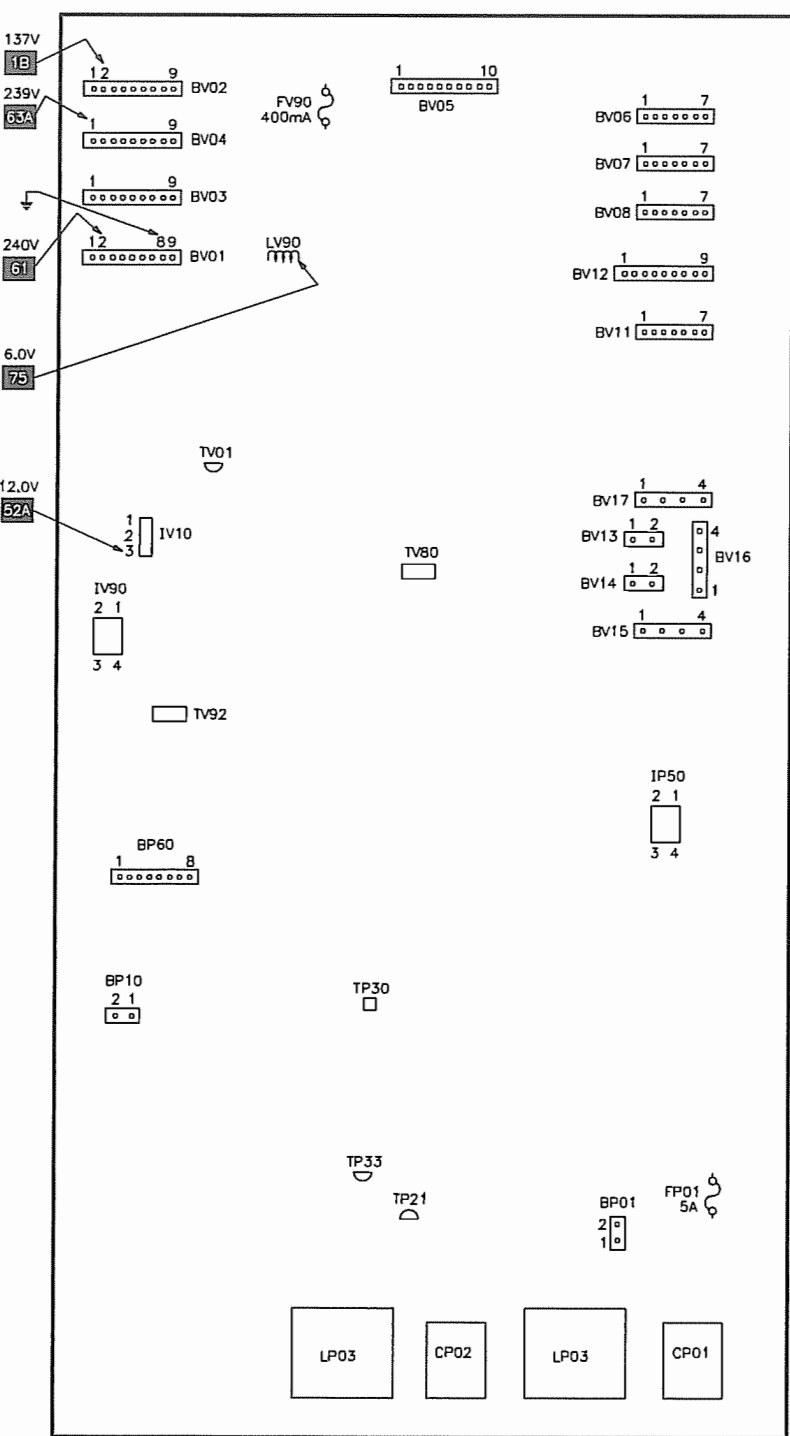
MODEL D40W20YX1 (CHASSIS ATC221)

PLACEMENT CHART continued

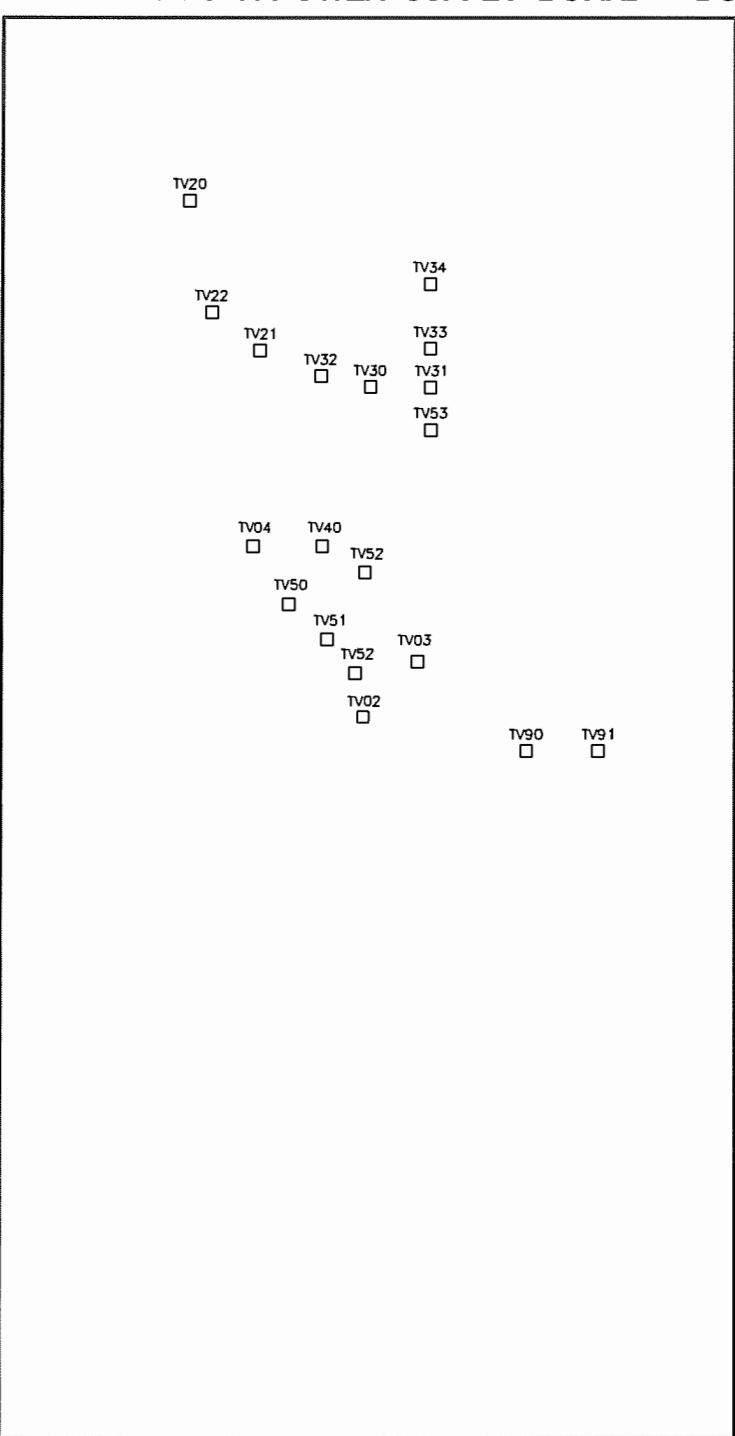
CONVERGENCE AMP



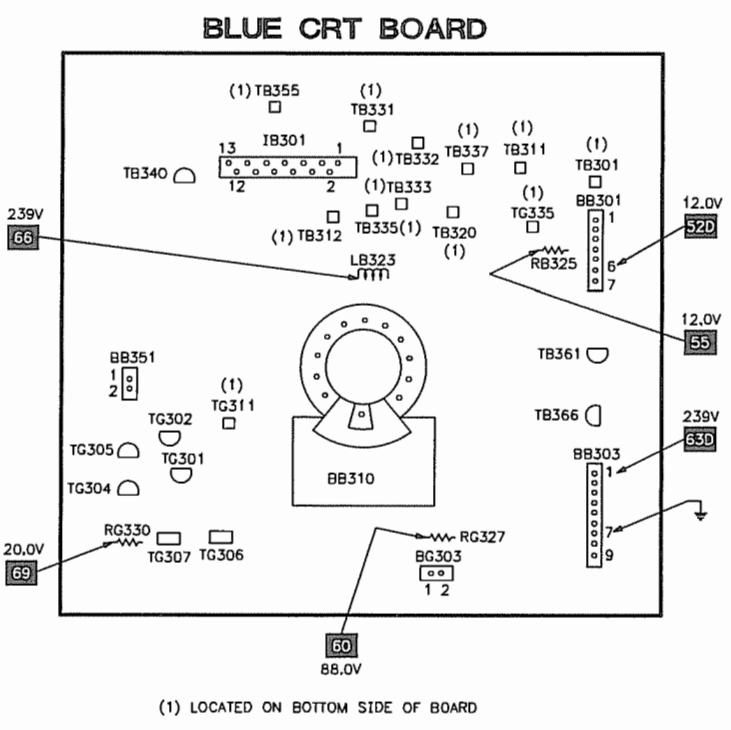
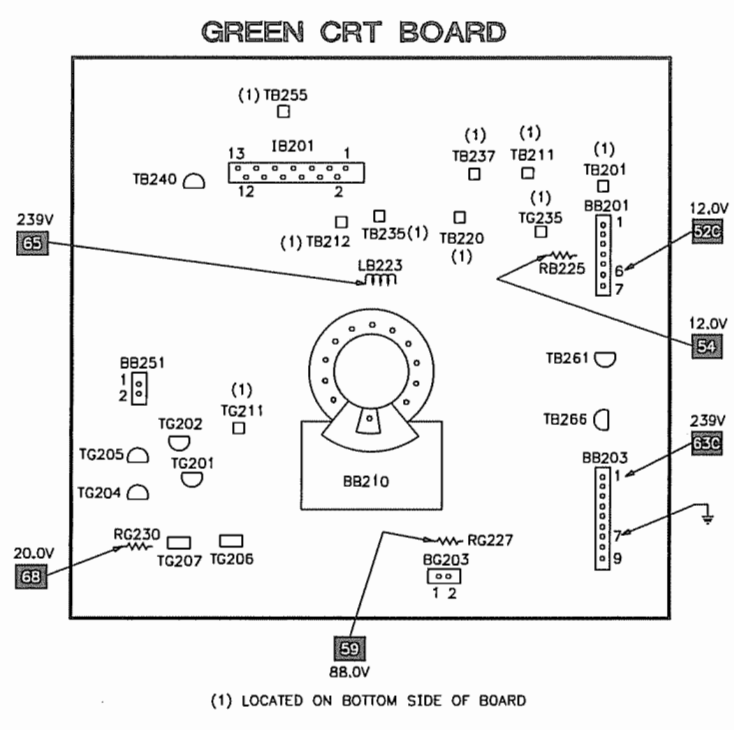
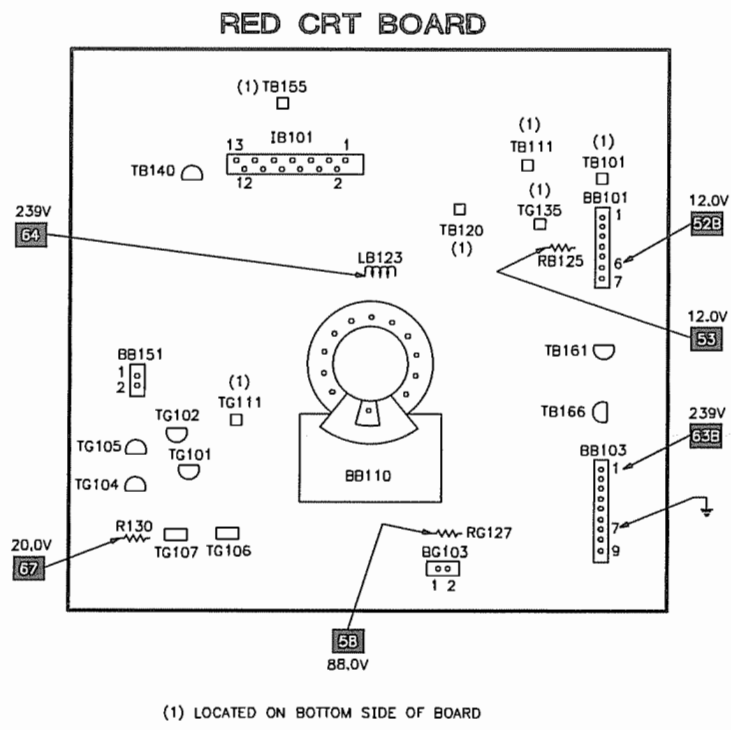
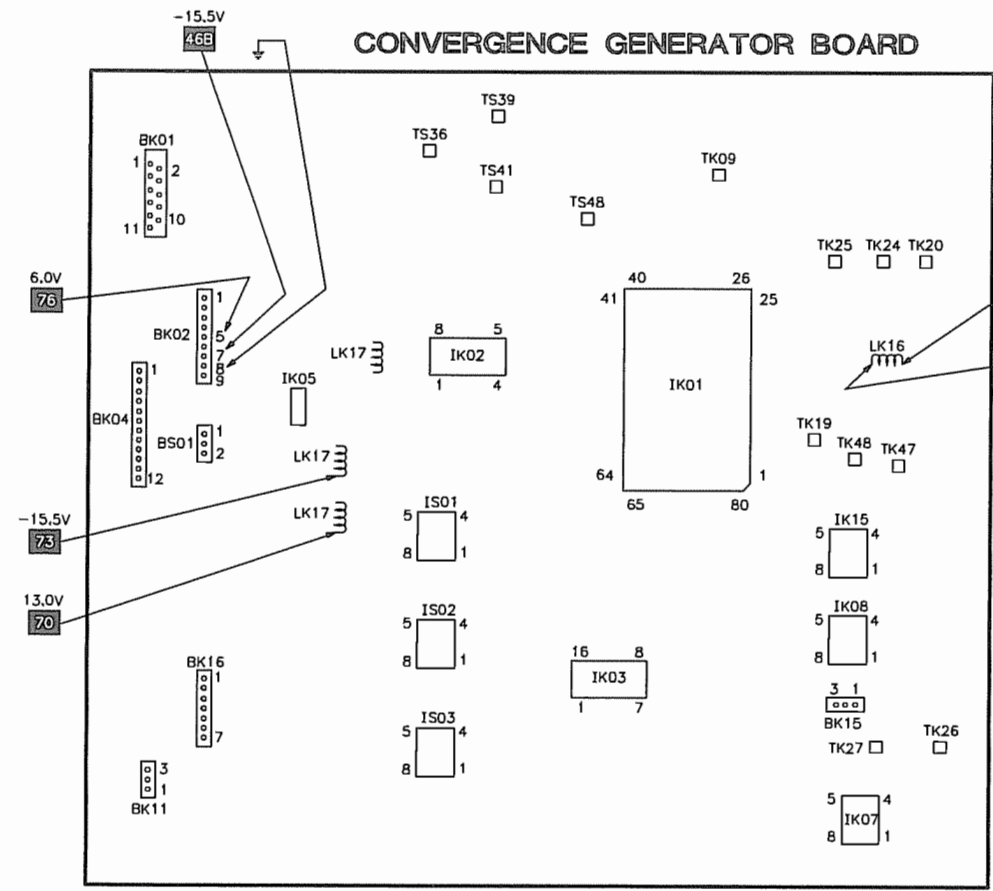
CONVERGENCE ADAPTER/POWER SUPPLY BOARD - TOP VIEW



CONVERGENCE ADAPTER/POWER SUPPLY BOARD - BOTTOM VIEW



PLACEMENT CHART continued



SCHEMATIC COMPONENT LOCATION GUIDE

BJ010	A157	CA114	B168	CB234	B116	CG148	E103	CK16	D193	CP063	C61	CP90	E85	CS52	C188	CT405	A72	CT735	B176	CV002	A28	CW07	A96	DA05	A199	DG237	D115	DP49	D85	FT201	A129	IS03	E190	LL005	C218
BJ011	D121	CA115	A168	CB239	C115	CG15	A215	CK17	B192	CP071	A56	CP91	E84	CS53	C189	CT406	A72	CT736	B177	CV003	A28	CW19	E84	DA06	B199	DG301	E110	DP501	C69	FT201	B129	IT001	B69	LL008	A225
BLUE	A221	CA116	B170	CB240	A118	CG154	D98	CK18	B192	CP073	C61	CQ003	E169	CT001	A69	CT407	C36	CT737	B177	CV004	A28	CW19	C71	DA08	A199	DG302	E110	DP510	D69	FT202	A129	IT002	C74	LL008	A77
BQ012	E170	CA117	A170	CB241	B116	CG16	B215	CK20	D96	CP110	A64	CQ004	E169	CT002	A69	CT408	C36	CT738	B176	CV005	A28	CW19	C71	DA09	B200	DG336	D107	DP520	B73	FT202	B129	IT003	A69	LL010	B219
BT100	A129	CA118	B170	CB242	B116	CG201	E94	CK201	A141	CP111	A64	CR001	C154	CT003	B72	CT409	E36	CT745	D176	CV006	A29	CX100	B123	DA10	A200	DG337	D107	DP521	B74	FT202	B129	IT004	D73	LL011	B219
BT100	B129	CA119	A170	CB244	B118	CG202	E93	CK202	A141	CP112	A64	CR002	C154	CT004	B72	CT410	E36	CT747	D176	CV009	B29	CX100	B123	DA11	B200	DG50	D214	DP530	C70	FT400	C35	IT200	B138	LL012	B219
BT100	B129	CA120	B170	CB251	B116	CG203	E116	CK21	D95	CP113	B64	CR003	C144	CT005	D73	CT411	D36	CT749	C180	CV01	C202	CX101	B75	DA110	C66	DG51	D214	DP540	C69	FT940	C157	IT210	B33	LL029	D222
BT100	B129	CA121	A170	CB252	A119	CG204	D116	CK23	A96	CP112	A85	CR005	C143	CT006	D73	CT412	D36	CT752	C180	CV011	A30	CX012	B75	DA130	B165	DG52	D214	DP60	B86	FT940	C157	IT220	D135	LL030	E221
BT100	D157	CA122	C67	CB256	B117	CG205	E117	CK24	B96	CP120	C64	CR006	B143	CT007	C75	CT413	D36	CT790	C72	CV016	A31	CX120	B123	DA131	C167	DG53	C215	DP65	A86	FT940	D157	IT230	C139	LL032	E221
BT940	A129	CA123	C67	CB261	C116	CG206	E116	CK25	D96	CP121	C64	CR007	B142	CT008	C75	CT414	C36	CT7901	C72	CV02	C205	CX130	D126	DA145	C165	DG56	C216	DP75	A86	FT960	D157	IT400	B36	LL100	A73
BT940	A129	CA124	C67	CB262	D117	CG207	D118	CK26	E194	CP130	B65	CR008	E75	CT009	A72	CT501	D70	CT902	D160	CV021	B28	CX132	C71	DA170	E166	DG60	C216	DP75	A86	FT960	D157	IT500	C178	LL200	D226
BT940	C157	CA125	C67	CB266	C118	CG209	E118	CK31	D194	CP131	B64	CR009	E75	CT010	A72	CT502	A175	CT903	D160	CV022	B28	CX133	C71	DA171	E167	DH010	B66	DP87	E86	FT960	E157	IT500	C178	LL200	D226
BT940	D157	CA127	B67	CB267	C118	CG210	B94	CK32	A96	CP135	B65	CR010	A153	CT011	D75	CT503	A175	CT912	D159	CV03	C203	CX200	C123	DA172	E167	DK08	B189	DT001	B70	FT960	E157	IT510	D180	LL201	A77
BU010	D122	CA128	B67	CB271	C119	CG212	E118	CK33	A194	CP136	B64	CR011	A153	CT012	D75	CT504	A175	CT913	D159	CV030	D70	CX220	C123	DA200	C165	DK09	D96	DT201	A130	FT960	E157	IT600	A132	LL211	D92
BX100	A121	CA130	B168	CB309	B107	CG214	E117	CK34	C194	CP140	A72	CR012	A153	CT202	A130	CT505	A176	CT914	D159	CV041	C28	CX300	D123	DA201	B165	DK10	C186	DT202	B130	FU001	B22	IT607	C130	LL212	D92
BX100	C121	CA131	C65	CB310	A105	CG215	E115	CK35	B194	CP141	C64	CR015	A153	CT204	A130	CT506	A176	CT915	D159	CV042	C28	CX320	E123	DA202	C166	DL001	C218	DT203	B130	FU023	E22	IT608	E131	LL231	C78
BX200	A122	CA132	C66	CB321	B109	CG241	D115	CK36	B96	CP150	A75	CR016	A153	CT206	B130	CT507	A176	CT916	D159	CV050	D70	CX409	D155	DA203	C166	DL012	B219	DT204	A130	FU030	A26	IT620	D130	LP004	B61
BX200	A122	CA133	A200	CB322	B109	CG248	E119	CK37	A96	CP151	C64	CR017	A153	CT208	A130	CT508	A177	CT917	E159	CV09	C92	CX410	E155	DA204	C165	DL028	E222	DT205	B130	FV90	C95	IT900	C159	LP020	C64
BX200	B157	CA157	C171	CB323	D94	CG254	D114	CK38	A194	CP152	D60	CR020	B153	CT210	B130	CT509	E178	CT918	E159	CV10	B91	CX500	C70	DA50	C199	DL029	E222	DT206	B130	FX100	B121	IU001	B20	LP050	A63
BX200	B157	CA159	C170	CB324	D93	CG301	E94	CK39	C194	CP162	D55	CR021	B153	CT212	B130	CT511	D70	CT919	E159	CV100	D70	CX501	C70	DA51	D199	DL030	E221	DT207	B130	FX100	B122	IU001	C19	LP051	A61
BX600	C164	CA16	B199	CB325	C91	CG302	E93	CK40	B191	CP170	B52	CR022	B153	CT214	B137	CT512	B174	CT940	C158	CV101	D70	CX502	C71	DA52	D199	DL032	E221	DT208	B130	FX100	B122	IU002	B22	LP070	A55
BX600	C172	CA160	E165	CB326	C90	CG303	E108	CK41	B194	CP171	B53	CR025	C145	CT216	B137	CT513	B174	CT941	C158	CV102	C32	CX503	C70	DA53	C199	DL034	D222	DT209	D176	FX100	C122	IU003	D22	LP112	B64
BX600	C172	CA161	D165	CB334	B108	CG304	D108	CK42	B96	CP172	E75	CR026	C145	CT217	C138	CT514	C175	CT942	C158	CV11	B90	CX504	C71	DA56	C199	DL036	D222	DT209	C75	FX100	C122	IU004	B18	LP113	A64
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BX600	D128	CA163	D165	CB340	A110	CG306	E108	CK44	C194	CP179	A52	CR030	E75	CT219	C138	CT523	D176	CT944	C158	CV12	A88	CX506	C71	DA58	D199	DL073	C227	DT602	D131	FX300	E123	IU040	D28	LP151	A73
BX600	D164	CA164	C170	CB341	B108	CG307	D110	CK45	B194	CP180	B51	CR0307	E75	CT221	B137	CT528	D178	CT945	C158	CV20	B204	CX508	C70	DA59	D200	DL074	D67	DT603	D131	FX300	E123	IU10	B89	LP401	A58
CA001	C72	CA165	C169	CB342	B108	CG309	E110	CK46	B194	CP182	A53	CR032	E74	CT222	B137	CT529	D178	CT950	D158	CV200	D70	CX509	D72	DA60	C200	DL075	D67	DT604	B71	FX600	C172	IU100	B31	LP50	A86
CA004	A159	CA166	C171	CB344	B110	CG310	B94	CK47	C194	CP190	D75	CR038	B153	CT223	D137	CT530	D178	CT951	D158	CV201	D70	CX511	C16	DB01	A211	DL100	E218	DV01	C92	FX600	D127	IU200	C43	LP60	B86
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CA006	A162	CA173	C67	CB352	A111	CG314	E109	CK50	A192	CP196	D53	CR040	E75	CT225	B133	CT532	A182	CT953	D158	CV203	E43	CX520	A15	DB03	B211	DL105	E218	DV03	C92	GE101	D146	IU520	C46	LP70	B86
CA007	A162	CA174	B67	CB356	C109	CG331	E107	CK53	D193	CP197	D52	CR041	E75	CT226	B133	CT533	A182	CT954	D158	CV204	E44	CX530	D71	DB05	A211	DL106	E219	DV110	E30	GK201	A141	IU521	D46	LP75	A87
CA008	A160	CA175	E166	CB361	C108	CG341	D107	CK60	B189	CP199	D52	CR042	E75	CT227	B133	CT534	D70	CT955	D158	CV220	A41	CX540	D71	DB06	B211	DL141	D220	DV111	E30	GREEN	A222	IU521	E46	LR001	D150
CA009	A162	CA176	E166	CB362	D109	CG348	E111	CK63	A95	CP20	B81	CR043	B142	CT228	B133	CT541	B181	CT960	E158	CV221	A41	CX555	B9	DB08	A211	DL201	A78	DV20	B203	HA150	A57	IU90	C222	LR010	A153
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CA014	B159	CA180	C168	CB50	A91	CG53	E91	CK67	D96	CP22	B81	CR052	E74	CT233	C137	CT546	D175	CT964	E158	CV240	B155	DV24	B203	IA003	D166	LA001	B162	LA001	A169	IU950	C12	LR014	A153		
CA015	B159	CA181	C168	CB51	D210	CG54	A90	CK70	A95	CP220	D75	CR055	A143	CT234	B138	CT548	C180	CT965	D158	CV241	A155	CX570	B15	DB140	A102	DL252	B78	DV25	B203	IA003	E166	LA013	B158	LR017	A153
CA016	B159	CA182	C167	CB53	E90	CG55	D90	CK71	C96	CP221	A50	CR057	A142	CT235	D137	CT551	C180	CT970	E158	CV250	D42	CX572	C13	DB151	A103	DL301	D41	DV270	D42	IA10	A197	LA014	B158	LR020	B153
CA017	B159	CA183	C67	CB54	A91	CG56	C215	CK72	B96	CP23	B82	CR060	C143	CT236	D137	CT561	C176	CT971	E158	CV251	C42	CX580	B7	DB152	A103	DL302	D41	DV271	D42	IA10	C197	LA023	B158	LR021	B153
CA018	B159	CA184	B67	CB55	D90	CG59	D214	CK75	D96	CP230	D64	CR065	E75	CT238	D138	CT562	C176	CT972	E158	CV252	B42	CX582	B7	DB153	A103	DL303	D41	DV276	D41	IA180	C169	LA024	C158	LR022	B153
CA02	A96	CA185	C67	CB56	C212	CG6																													

SCHEMATIC COMPONENT LOCATION GUIDE continued

LW06	B96	RA169	D167	RB164	C102	RB366	C110	RG212	E118	RK001	A192	RL102	E218	RP173	C51	RR001	D150	RR195	E145	RT222	B137	RT402	C36	RU005	B19	RV340	B44	RX135	D126	SK102	B141	TG50	C214	TT375	D40
LW07	A96	RA170	E167	RB165	D101	RB367	C110	RG213	E118	RK002	A191	RL103	E218	RP174	C51	RR002	D154	RR196	D147	RT223	D137	RT403	A70	RU006	B19	RV341	B45	RX136	D126	SK103	B141	TG51	C214	TT401	C34
LX409	D155	RA171	E167	RB166	C102	RB369	C110	RG219	D119	RK003	A191	RL105	E219	RP175	C51	RR004	B142	RR198	D145	RT224	D137	RT412	C34	RU007	B20	RV35	A204	RX137	D126	SK104	B141	TG52	C215	TT501	A174
NH500	C1	RA172	E167	RB167	C102	RB371	C111	RG221	E119	RK004	B192	RL106	E218	RP176	C53	RR005	B143	RR199	D145	RT225	B133	RT413	C35	RU008	B19	RV36	A205	RX200	C122	SK105	C141	TG53	D215	TT502	A175
NH501	D2	RA173	E167	RB169	C102	RB390	B110	RG223	E119	RK006	C195	RL107	B156	RP177	B53	RR006	C154	RR250	E145	RT226	B133	RT414	C35	RU010	C19	RV37	A205	RX201	C123	SP1	A172	TG54	C215	TT503	A176
NH503	B2	RA174	E166	RB171	C103	RB50	C210	RG226	B93	RK007	C190	RL109	E219	RP178	B52	RR009	A142	RR300	C154	RT227	B133	RT415	C36	RU013	D26	RV38	A205	RX220	C122	SP2	B172	TI010	A5	TT511	B174
PP180	A52	RA175	E166	RB190	B100	RB51	D210	RG227	B93	RK009	A194	RL110	E219	RP179	A52	RR010	D150	RR300	D150	RT230	B139	RT501	A173	RU018	C21	RV39	A205	RX221	C123	SP402	B57	TI030	B5	TT512	B175
QA001	A162	RA176	E166	RB20	B210	RB52	D210	RG228	E117	RK10	B190	RL112	D219	RP180	A52	RR011	C154	RR301	C152	RT231	C137	RT503	B174	RU019	C21	RV40	D203	RX300	D123	ST980	A171	TI530	D5	TT513	B175
QC536	B14	RA177	C168	RB201	A113	RB53	D210	RG229	E119	RK101	B141	RL120	E219	RP181	A53	RR012	C152	RR302	B154	RT232	D137	RT504	A174	RU020	C21	RV41	A206	RX301	D123	TA01	A199	TK04	B188	TT514	B176
QC736	E13	RA178	C169	RB206	B114	RB54	D211	RG230	E93	RK102	B141	RL121	E220	RP182	B51	RR013	C154	RR302	C152	RT233	C137	RT505	A174	RU040	E28	RV42	C206	RX320	E123	TA02	A199	TK09	C187	TT531	A181
QI033	B6	RA179	C168	RB207	A113	RB55	D212	RG232	E119	RK103	B141	RL141	D220	RP183	A51	RR015	D145	RR303	D152	RT234	C137	RT506	A175	RU060	B19	RV44	D203	RX321	E123	TA03	B199	TK14	B188	TT532	A182
QI533	D6	RA180	C168	RB208	A115	RB56	D212	RG234	E115	RK104	B141	RL141	D220	RP184	B52	RR016	C153	RR303	D152	RT235	C137	RT507	A176	RU061	B20	RV45	B204	RX500	B9	TA04	B199	TK20	D196	TT533	B183
QR001	C154	RA181	C168	RB209	B115	RB57	D212	RG235	D113	RK105	C141	RL221	C78	RP185	A51	RR017	B142	RR304	D152	RT236	C137	RT508	A176	RU062	B20	RV47	A206	RX501	B9	TA05	A198	TK22	E196	TT541	B181
QT231	D139	RA182	C168	RB210	B115	RB58	D211	RG236	E109	RK11	C194	RL230	C79	RP186	B51	RR025	D145	RR305	E152	RT237	B139	RT510	A174	RV001	A27	RV48	A206	RX513	C16	TA06	A198	TK24	E196	TT542	B182
QT260	D134	RA183	C169	RB211	A115	RB59	D211	RG237	D114	RK12	B194	RL231	C78	RP187	A51	RR044	E142	RR306	E152	RT238	D137	RT511	B174	RV005	A28	RV49	A207	RX514	C16	TA130	B167	TK25	D196	TT543	C183
QT501	D176	RA184	C170	RB212	B113	RB60	D210	RG238	D114	RK13	A194	RL251	B78	RP188	A51	RR045	E142	RR307	A152	RT239	B139	RT512	B174	RV007	A29	RV50	E203	RX520	A14	TA131	C167	TK26	B187	TT561	C175
QV400	D44	RA185	C169	RB214	B114	RB61	B197	RG239	E114	RK14	B194	RL300	C227	RP189	D51	RR046	A152	RR308	A152	RT243	C138	RT513	B174	RV008	A30	RV501	E42	RX521	A15	TA145	D167	TK27	B187	TT601	D131
RA005	A159	RA186	B66	RB220	A116	RB62	C211	RG240	E114	RK15	C194	RL301	C41	RP190	D53	RR050	C143	RR309	B152	RT244	D139	RT514	B175	RV009	A29	RV502	E42	RX522	A15	TA200	B166	TK47	A187	TT602	D131
RA01	A197	RA187	C66	RB221	A116	RB64	D210	RG241	E115	RK20	D194	RL303	C226	RP192	D53	RR051	A142	RR310	B152	RT245	D139	RT515	B175	RV01	C92	RV505	C42	RX523	A15	TA201	B167	TK48	A187	TT631	B131
RA011	B158	RA188	D166	RB222	B117	RB66	D211	RG242	E119	RK201	A142	RL304	C227	RP193	D53	RR053	C154	RR311	B152	RT246	C140	RT516	B175	RV010	A29	RV507	C42	RX530	A13	TA202	C166	TK03	C217	TT632	B131
RA012	B158	RA191	A163	RB223	C116	RC546	B4	RG301	E107	RK202	A141	RL305	C227	RP194	D52	RR054	C154	RR312	C152	RT253	C140	RT517	B175	RV011	A30	RV51	D204	RX532	A14	TA50	C198	TL004	B218	TU001	C20
RA013	B159	RA192	B163	RB225	C90	RC547	B4	RG302	E108	RK225	D194	RL306	C227	RP195	D53	RR055	D143	RR320	A142	RT254	A36	RT518	B176	RV012	B30	RV510	B45	RX533	A14	TA51	C198	TL005	C218	TU004	B20
RA014	B159	RA193	C163	RB227	B115	RC552	B13	RG303	E108	RK24	B189	RL308	C227	RP196	D53	RR056	C147	RR320	C154	RT256	A36	RT519	B176	RV013	A30	RV511	B45	RX540	B15	TA52	C199	TL010	B219	TU060	B20
RA015	B159	RA194	E165	RB228	B116	RC558	B13	RG304	D106	RK25	E194	RL310	C227	RP197	D51	RR061	C141	RR320	D147	RT257	B35	RT521	D177	RV014	A31	RV512	B46	RX542	A16	TA53	D199	TL029	E222	TU066	A28
RA016	B159	RA195	D165	RB233	B116	RC746	C4	RG305	D108	RK26	D194	RL311	D227	RP198	D51	RR062	C143	RR321	B147	RT259	B34	RT523	D176	RV016	A31	RV513	B46	RX543	B16	TA54	C199	TL100	E218	TV008	A29
RA02	A198	RA200	B66	RB234	B116	RC747	C4	RG306	E108	RK27	D194	RL312	C228	RP199	D51	RR063	C143	RR321	C144	RT261	B36	RT526	C176	RV021	C201	RV52	E204	RX555	B9	TA55	D199	TL104	E218	TV01	C202
RA021	B158	RA201	B66	RB235	C114	RC748	E10	RG308	D108	RK28	D194	RL313	D227	RP20	B81	RR064	D143	RR322	B147	RT262	B35	RT527	C176	RV022	B27	RV520	E45	RX565	B15	TB01	A211	TL105	E220	TV012	A30
RA022	C158	RA202	B165	RB236	C115	RC752	E12	RG310	D108	RK30	E196	RL314	D228	RP200	D82	RR065	D141	RR322	B154	RT263	D70	RT528	A181	RV022	B28	RV521	D45	RX566	B16	TB02	A211	TL111	E219	TV015	B31
RA023	B159	RA203	B165	RB237	B115	RC758	E13	RG312	E110	RK31	E196	RL314	D228	RP201	D82	RR066	C142	RR322	C147	RT272	B35	RT532	A181	RV023	B29	RV522	E45	RX567	B16	TB03	B211	TL120	E220	TV02	C205
RA024	C159	RA204	B165	RB238	C114	RC921	C11	RG313	E110	RK32	E196	RL314	D228	RP202	D82	RR067	C142	RR323	A145	RT273	B36	RT533	A182	RV024	B29	RV523	D48	RX571	C13	TB04	B211	TL140	D221	TV023	B28
RA025	B159	RA205	B166	RB240	A118	RC950	C126	RG319	D111	RK33	D196	RL314	D228	RP203	D82	RR068	D141	RR323	A147	RT274	E139	RT534	B182	RV025	C30	RV524	C45	RX572	C13	TB05	A210	TL311	C227	TV025	B30
RA026	C159	RA206	B166	RB241	B117	RC952	C126	RG321	E111	RK35	B194	RL314	D228	RP204	D82	RR069	D143	RR323	A147	RT275	B37	RT535	A183	RV026	B30	RV525	C47	RX573	C13	TB06	A210	TL312	C228	TV028	C31
RA03	A198	RA207	B166	RB242	B116	RC953	C127	RG323	E111	RK36	C194	RL314	D228	RP205	D82	RR070	E155	RR323	C147	RT276	B37	RT536	A183	RV027	B31	RV526	D45	RX574	C13	TB101	A97	TP020	B61	TV03	C206
RA031	A158	RA208	C166	RB243	A118	RC961	C11	RG326	B93	RK37	B194	RL314	D228	RP206	D82	RR071	E155	RR324	A145	RT277	B36	RT537	B183	RV028	C205	RV527	E45	RX580	C5	TB111	A99	TP026	E63	TV04	C204
RA032	B158	RA209	C166	RB244	B118	RC962	C11	RG327	B93	RK38	C194	RL314	D228	RP207	D82	RR072	E155	RR324	D154	RT278	B35	RT538	A183	RV029	C205	RV528	C46	RX581	C5	TB120	A99	TP034	E61	TV043	C28
RA033	A158	RA210	B167	RB245	B118	RC963	C11	RG328	E109	RK40	B194	RL314	D228	RP208	D82	RR073	E155	RR325	A145	RT279	B35	RT539	A183	RV030	C205	RV529	C46	RX582	C5	TB140	A102	TP050	C59	TV045	C30
RA034	B158	RA211	C166	RB253	A118	RC964	C11	RG329	E111	RK41	C194	RL314	D228	RP209	D82	RR074	E155	RR325	A147	RT280	D134	RT541	B181	RV041	C27	RV530	C46	RX583	C5	TB155	B100	TP051	C59	TV048	D31
RA035	A159	RA212	C166	RB254	A119	RC965	C11	RG330	E111	RK42	A194	RL314	D228	RP210	D82	RR075	E155	RR325	A147	RT281	B181	RT542	B181	RV042	C28	RV531	D204	RX584	C5	TB161	C101	TP080	D60	TV20	B204
RA036	B159	RA213	C166	RB255	A119	RC966	C11	RG331	E111	RK43	B186	RL314	D228	RP211	D82	RR076	E155	RR325	D143	RT282	C134	RT543	B182	RV043	C29	RV532	C47	RX585	C5	TB166	C101	TP081	C60	TV21	B205
RA04	B198	RA214	C198	RB256	C117	RC967	C11	RG332	E107	RK44	A186	RL314	D228	RP212	D82	RR077	E155	RR326	D147	RT283	D134	RT544	B183	RV044	C30	RV533	C46	RX586	C5	TB201	A113	TP150	D60	TV22	B205
RA041	C160	RA215	D198	RB257	B117	RC968	A220	RG333	E117	RK45	A186	RL314	D228	RP213	D82	RR078	E155	RR326	D154	RT284	D134	RT545	B183	RV045	D30	RV534	C46	RX587	C5	TB211	A115	TP16			

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DA01, 02, 03	1N4148	198589	NTE519
DA05, 06	-	244870	-
DA08, 09	-	223783	-
DA10, 11	1N4148	198589	NTE519
DA110	-	259551	-
DA130, 31, 45	-	206077	NTE519
DA170	-	219249	NTE5010T1
DA171, 72	-	259215	-
DA200, 01, 02	-	206077	NTE519
DA203	-	258700	-
DA204	-	206077	NTE519
DA50, 51, 52	1N4148	198589	NTE519
DA53	-	244870	-
DA56, 57	-	223783	-
DA58	-	244870	-
DA59, 60	1N4148	198589	NTE519
DB01, 02, 03	1N4148	198589	NTE519
DB05, 06	-	244870	-
DB08, 09	-	223783	-
DB10	1N4148	198589	NTE519
DB106	1N4148	198589	NTE519
DB11	1N4148	198589	NTE519
DB140	1N4148	198589	NTE519
DB151 Thru			
DB154	-	230757	-
DB160, 62	1N4148	198589	NTE519
DB164	-	230757	-
DB166	-	259552	-
DB167, 68	-	259232	-
DB206, 40	1N4148	198589	NTE519
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DB254	-	230757	-
DB260, 62	1N4148	198589	NTE519
DB264	-	230757	-
DB266	-	259552	-
DB267, 68	-	259232	-
DB306, 40	1N4148	198589	NTE519
DB351 Thru			
DB354	-	230757	-
DB360, 62	1N4148	198589	NTE519
DB364	-	230757	-
DB366	-	259552	-
DB367, 68	-	259232	-
DB50, 51, 52	1N4148	198589	NTE519
DB53	-	244870	-
DB56, 57	-	223783	-
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DB59, 60	1N4148	198589	NTE519
DF011	-	259223	-
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DG01, 02, 03	1N4148	198589	NTE519
DG05, 06	-	244870	-
DG08, 09	-	223783	-
DG10	1N4148	198589	NTE519
DG101, 02	1N4148	198589	NTE519
DG11	1N4148	198589	NTE519
DG136, 37	1N4148	198589	NTE519
DG201, 02	1N4148	198589	NTE519
DG236, 37	1N4148	198589	NTE519
DG301, 02	1N4148	198589	NTE519
DG336, 37	1N4148	198589	NTE519
DG50, 51, 52	1N4148	198589	NTE519
DG53	-	244870	-
DG56	-	223783	-
DG60	1N4148	198589	NTE519
DH010	-	259224	-
DK08	-	206077	NTE519
DK09	-	259973	-
DK10	-	206077	NTE519

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DL001	-	198589	NTE519
DL012	-	244834	-
DL028	-	259231	-
DL029	-	259238	-
DL030	-	259875	-
DL032	-	259638	-
DL034, 36	-	259601	-
DL043	-	230757	-
DL073	1N4148	198589	NTE519
DL074, 75	-	231865	-
DL100	1N4148	198589	NTE519
DL104, 05, 06	-	244870	-
DL141	-	226463	-
DL201	-	258740	-
DL221	-	259984	-
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DL251	-	259984	-
DL252	-	259231	-
DL301	-	259971	-
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DP020	-	259234	-
DP021	-	256971	-
DP022	-	239132	-
DP023	-	230757	-
DP029, 30, 33	1N4148	198589	NTE519
DP051	-	259865	-
DP053	-	223694	-
DP060	-	198589	NTE519
DP061	-	244834	-
DP080, 81	-	198589	NTE519
DP110	-	259646	-
DP111	-	258740	-
DP113	-	259865	-
DP114	-	258740	-
DP120, 30, 35	-	259868	-
DP140, 50	-	259632	-
DP160, 61	1N4148	198589	NTE519
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DP178, 79, 80	1N4148	198589	NTE519
DP191, 93, 97	1N4148	198589	NTE519
DP20	-	230757	-
DP200, 11	1N4148	198589	NTE519
DP220	-	244834	-
DP221, 22, 25	1N4148	198589	NTE519
DP23	-	223694	-
DP230	1N4148	198589	NTE519
DP24	-	223694	-
DP240, 41	-	244834	-
DP30	1N4148	198589	NTE519
DP31, 32	-	259955	-
DP38	-	226456	-
DP39, 40	1N4148	198589	NTE519
DP400	-	259877	-
DP41	1N4148	198589	NTE519
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DP49	1N4148	198589	NTE519
DP501, 10	-	206077	NTE519
DP520	-	259553	-
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DP70, 75	-	259246	-
DP87	-	259226	-
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DT601	-	232709	-	IT004	-	259864	-
DT602, 03, 04	-	259555	-	IT200	CXA2151Q	259495	-
DV01, 02, 03	-	244870	-	IT210	HEF4053BT	259221	-
DV110, 11	-	206077	NTE519	IT220	-	259308	-
DV20 Thru				IT230	-	259310	-
DV25	1N4148	198589	NTE519	IT240	-	259318	-
DV270	-	259554	-	IT400	STV2165-CE	258741	-
DV271, 76	-	259550	-	IT500	-	248541	-
DV30, 50, 52	1N4148	198589	NTE519	IT510	-	248542	-
DV520, 21, 23	-	206077	NTE519	IT600	-	259507	-
DV53	1N4148	198589	NTE519	IT607, 08	-	259505	-
DV530, 32	-	259551	-	IT620	-	260087	-
DV533 Thru				IT900	TEA6422	259269	-
DV536	-	206077	NTE519	IU001	-	259619	-
DV70	-	237523	-	IU002, 03	-	259267	-
DV80	1N4148	198589	NTE519	IU004	-	259282	-
DV85, 86	-	258728	-	IU030	-	259266	-
DV90	-	244870	-	IU040	-	259311	-
DV91	-	259955	-	IV10	-	259625	-
DV92	-	256971	-	IV100	TDA9178T	259258	-
DV93	-	244870	-	IV200	TDA9330H	259259	-
DW12	-	232545	-	IV520, 21	-	259619	-
DX130, 31	-	259555	-	# IV90	-	257786	-
DX610, 11, 20, 21	-	259555	-	IX600	TEA6416C	258730	-
DX630, 31	-	259555	-	IX950	-	259309	-
DX930, 40	-	259555	-	TA01, 02	-	259539	-
GE101	-	257862	-	TA03, 04	-	259540	-
IA001	-	259287	-	TA05	-	259542	-
IA002	-	258736	-	TA06	-	259513	-
IA003	-	259292	-	TA130, 31, 45	-	259547	-
IA10	-	259220	-	TA200	-	256808	-
IA180, 81	-	259227	-	TA201	-	259545	-
IB101	-	249239	-	TA202	-	259545	-
IB12	-	259220	-	TA50	-	259513	-
IB201	-	249239	-	TA51	-	259542	-
IB301	-	249239	-	TA52	-	259539	-
IC500	TDA9321H	259624	-	TA53	-	259540	-
IC700	TDA9321H	259624	-	TA54	-	259539	-
IF001	-	258738	-	TA55	-	259540	-
IG11	-	259220	-	TB01, 02	-	259539	-
IK01	-	248573	-	TB03, 04	-	259540	-
IK02, 03	-	259239	-	TB05	-	259542	-
IK05	-	259225	-	TB06	-	259513	-
IK07	-	248601	-	TB101	-	259545	-
IK08	-	260088	-	TB111, 20	-	256808	-
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# IL140	-	257786	-	TB155, 61	-	259545	-
IP020	-	259275	-	TB166	-	259541	-
# IP030	-	257786	-	TB201	-	259545	-
IP050	LM393N	259273	NTE943M	TB211, 12, 20	-	256808	-
# IP070	-	257786	-	TB235	-	259545	-
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IP240	-	259281	-	TB240	-	259542	-
IP250	-	259862	-	TB255, 61	-	259545	-
# IP50	-	257786	-	TB266	-	259541	-
IP501, 10	-	259827	-	TB301	-	259545	-
IP530	-	259864	-	TB311, 12	-	256808	-
IP540	-	259831	-	TB320, 31, 32	-	256808	-
IP551	-	259863	-	TB333, 35	-	259545	-
IR001	-	259286	-	TB337	-	256808	-
IR005	-	260086	-	TB340	-	259542	-
IR006	-	256781	-	TB355, 61	-	259545	-
IR040	-	259284	-	TB366	-	259541	-
IR110	48LC4M16A2	259277	-	TB50	-	259513	-
IR130	-	259324	-	TB51	-	259542	-
IS01, 02, 03	-	258731	-	TB52	-	259539	-
IT001	-	259289	-	TB53	-	259540	-
IT002	-	259864	-	TB54	-	259539	-

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TB55	-	259540	-
TC950	-	259545	-
TF041	-	198749	NTE159
TG01, 02	-	259539	-
TG03, 04	-	259540	-
TG05	-	259542	-
TG06	-	259513	-
TG101	-	259513	-
TG102	-	219354	NTE188
TG104	-	215977	-
TG105	-	198749	NTE159
TG106	-	259639	-
TG107	-	259995	-
TG111	-	259545	-
TG135	-	256808	-
TG201	-	259513	-
TG202	-	219354	NTE188
TG204	-	215977	-
TG205	-	198749	NTE159
TG206	-	259639	-
TG207	-	259995	-
TG211	-	259545	-
TG235	-	256808	-
TG301	-	259513	-
TG302	-	219354	NTE188
TG304	-	215977	-
TG305	-	198749	NTE159
TG306	-	259639	-
TG307	-	259995	-
TG311	-	259545	-
TG335	-	256808	-
TG50	-	259513	-
TG51	-	259542	-
TG52	-	259539	-
TG53	-	259540	-
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TI530	-	259545	-
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TK09	-	258661	-
TK14, 20	-	248805	-
TK22, 24, 25	-	248805	-
TK26, 27	-	258661	-
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TL003	-	259513	-
TL004	-	177788	NTE31
TL005	-	259533	-
TL010	-	259899	-
TL029	-	256868	-
TL100, 04	-	259513	-
TL105	-	259622	-
TL111	-	219354	NTE188
TL120	ST1803DHI	259871	-
# TL140	-	256868	-
TL311	-	232549	-
TL312	-	198749	NTE159
TP020	-	259856	-
TP026	-	259513	-
TP034	-	198749	NTE159
TP050	-	219354	NTE188
TP051	-	215977	-
TP080	-	259513	-
TP081	-	198749	NTE159
TP150	-	215977	-
TP160, 61	-	259513	-
TP170	-	219354	NTE188
TP179, 80	-	198749	NTE159
TP197	-	259513	-
TP20	-	256808	-

Item No.	Type No.	Mfr. Part No.	NTE Part No.
TP21	-	259545	-
TP210	-	198749	NTE159
TP221	-	259513	-
TP24	-	198749	NTE159
TP27, 28	-	256808	-
TP30	-	259630	-
TP33	-	219354	NTE188
TP45	-	198749	NTE159
TP520	-	259732	-
TP523	-	259650	-
TP90, 91	-	259545	-
TR015	-	256808	-
TR060	-	259547	-
TR061	-	256808	-
TR062	-	259545	-
TR140	-	256808	-
TR141	-	259545	-
TR144	-	256808	-
TR145	-	259545	-
TR146	-	256808	-
TR147	-	259545	-
TR148	-	256808	-
TR149, 98	-	259545	-
TS36, 39, 41	-	248805	-
TS48	-	258661	-
TS50	-	248805	-
TT231, 51	-	256808	-
TT252, 53, 56	-	259545	-
TT257, 61	-	259545	-
TT303, 13, 23, 31	-	256808	-
TT332, 33, 51, 52	-	259545	-
TT353	-	256808	-
TT354, 55	-	259545	-
TT371, 72	-	259545	-
TT373	-	256808	-
TT374, 75	-	259545	-
TT401	-	259545	-
TT501, 02	-	259545	-
TT503, 11	-	256808	-
TT512	-	259545	-
TT513	-	256808	-
TT514	-	259545	-
TT531	-	256808	-
TT532	-	259545	-
TT533, 41	-	256808	-
TT542	-	259545	-
TT543	-	256808	-
TT561	-	259545	-
TT601, 02	-	243577	-
TT631	-	259545	-
TT632	-	256808	-
TU001	-	259544	-
TU004	-	258660	-
TU060	-	256808	-
TV006	-	256808	-
TV008	-	259545	-
TV01	-	259542	-
TV012	-	259545	-
TV015	-	256808	-
TV02	-	256808	-
TV023	-	256808	-
TV025	-	259545	-
TV028	-	256808	-
TV03	-	256808	-
TV04	-	259545	-
TV043	-	256808	-
TV045	-	259545	-
TV048	-	256808	-
TV20	-	256808	-

PARTS LIST continued

Item No.	Type No.	Mfr. Part No.	NTE Part No.
TV21, 22	-	259545	-
TV277	-	215977	-
TV30	-	256808	-
TV300	-	256808	-
TV31	-	259545	-
TV310	-	256808	-
TV32	-	256808	-
TV320	-	256808	-
TV33, 34	-	259545	-
TV35	-	256808	-
TV40, 50, 51	-	259545	-
TV513	-	259513	-
TV52	-	259545	-
TV522	-	259249	-
TV523	-	259548	-
TV524	-	259547	-
TV53	-	259545	-
TV80	-	259543	-
TV90, 91	-	259545	-
TV92	-	259630	-
TW01, 02	-	248805	-
TW10	-	258661	-
TW13, 14	-	248805	-
TW19	-	258661	-
TX131	-	256808	-
TX500, 15, 20	-	259545	-
TX530, 40	-	256808	-
TX565, 72	-	259545	-
TX650	-	256808	-
TX655	-	259545	-
TX670	-	256808	-
TX675	-	259545	-
TX700, 10, 20	-	259545	-
TX730, 40	-	256808	-
TX765, 72	-	259545	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# BB110	Socket	259316	CRT, Red
# BB210	Socket	259316	CRT, Green
# BB310	Socket	259316	CRT, Blue
BJ011	Socket	259637	S-Video Input
# BLUE CRT	CRT Projection Assembly	258484	-
BLUE YOKE	Yoke		Convergence
# BLUE YOKE	Yoke	258490	Deflection
BQ012	Jack	257785	Headphone
BT100	Jack	259903	Assembly
BT600	Jack	259952	DVI-HDTV
BT940	Jack	259906	Assembly
BU010	Jack	-	Chr Input
BX100	Socket	259879	Assembly
BX200	Jack	259904	Assembly
BX600	Jack	259902	Assembly
CA005, 06	3.3pF 10% 50V N750	259569	-
CA007	47pF 5% 50V NPO	256817	-
CA008	100pF 5% 50V N750	243372	-
CA013, 14	220pF 5% 50V NPO	249036	-
CA017, 18	47pF 5% 50V NPO	256817	-
CA023, 24	220pF 5% 50V NPO	249036	-
CA027, 28	47pF 5% 50V NPO	256817	-
CA033, 34	220pF 5% 50V NPO	249036	-
CA037, 38	47pF 5% 50V NPO	256817	-
CA043, 44	220pF 5% 50V NPO	249036	-
CA047, 48	180pF 50V NPO	256822	-
CA06	22pF 5% 50V NPO	256814	-
CA09	100pF 50V NPO	256818	-
CA090, 92	47pF 5% 50V NPO	256817	-
CA10, 11	100pF 50V NPO	256818	-
CA59	22pF 5% 50V NPO	256814	-

Item No.	Function/Rating	Mfr. Part No.	Notes
CA60, 62, 66	100pF 50V NPO	256818	-
CB06	22pF 5% 50V NPO	256814	-
CB09, 10	100pF 50V NPO	256818	-
CB109	10pF 50V NPO	256815	-
CB11	100pF 50V NPO	256818	-
CB110	6.8pF 50V NPO	258742	-
CB152	3.3pF 50V NPO	256813	-
CB167	470pF 10% 3kV	244853	-
CB171	.001 2kV	198806	-
CB209	10pF 50V NPO	256815	-
CB210	6.8pF 50V NPO	258742	-
CB252	3.3pF 50V NPO	256813	-
CB267	470pF 10% 3kV	244853	-
CB271	.001 2kV	198806	-
CB309	10pF 50V NPO	256815	-
CB310	6.8pF 50V NPO	258742	-
CB334	33pF 50V NPO	256816	-
CB352	3.3pF 50V NPO	256813	-
CB367	470pF 10% 3kV	244853	-
CB371	.001 2kV	198806	-
CB59	22pF 5% 50V NPO	256814	-
CB60, 62, 66	100pF 50V NPO	256818	-
CG06	22pF 5% 50V NPO	157199	-
CG09, 10, 11	100pF 50V NPO	256818	-
CG148	47pF 10% 250V NPO	157314	-
CG248	47pF 10% 250V NPO	157314	-
CG348	47pF 10% 250V NPO	157314	-
CG59	22pF 5% 50V NPO	256814	-
CG60, 62	100pF 50V NPO	256818	-
CI026	.68pF 50V NPO	263132	-
CI526	.68pF 50V NPO	263132	-
CK07	47pF 50V NPO	256817	-
CK17	100pF 50V NPO	256818	-
CK50	33pF 50V NPO	256816	-
CK66	.001 20% 50V NPO	247002	-
CL006	22pF 5% 50V NPO	157199	-
# CL029	3.3μF 20% 63V	259285	-
# CL030	330pF 2.5% 2kV	259307	-
# CL031	.0087 2.5% 2kV	259321	-
# CL032	.022 5% 400V	259248	-
# CL035	.41 5% 400V	259268	-
# CL038, 39	.0022 2% 400V	259305	-
# CL105	.0047 5% 630V	259306	-
# CL120	.0016 2.5% 2kV	259304	-
# CL140	.047 5% 400V	259280	-
CL201	470pF 10% 2kV	259623	-
CL221, 31, 51	330pF 20% 1kV	259366	-
CP019	220pF 10% 1kV	259677	-
CP020	100pF 20% 1kV	263608	-
CP022	220pF 10% 1kV	259677	-
# CP049	.0015 20% 250V	259314	-
# CP050	150pF 20% 400V	259567	-
CP051	470pF 10% 2kV	259368	-
CP052	.0022 20% 1kV	259960	-
CP061	220pF 10% 1kV	259677	-
CP071	100pF 5% 50V NPO	143871	-
CP111	330pF 10% 2kV	259570	-
CP112	.0015 20% 1kV	259270	-
CP113	220pF 10% 1kV	259677	-
CP121	470pF 10% 2kV	259368	-
CP131, 36	470pF 10% 2kV	259368	-
CP141, 51	470pF 10% 2kV	259368	-
CP162, 75	100pF 5% 50V NPO	143871	-
CP30	.0033 20% 1kV	259959	-
# CP400	.1 20%	256793	-
CP402, 03	.0047 20% 1kV	259222	-
# CP404	.001 20% 250VAC	263908	-
CP412	.0047 1kV	259222	-
CR001, 02	39pF 5% 50V NPO	259565	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
CR049, 57	39pF 5% 50V NPO	259565	-	FU023	Crystal	259850	24.576MHz
CR081, 82	39pF 5% 50V NPO	259565	-	FU030	Crystal	259849	27MHz
CR090 Thru				# FV90	Fuse	259213	400mAmp, 125V
CR097	39pF 5% 50V NPO	259565	-	FX100	-	259492	-
CR161, 62	39pF 5% 50V NPO	259565	-	FX300	-	259492	-
CR170, 71	39pF 5% 50V NPO	259565	-	FX600	-	259492	-
CR181, 82	47pF 5% 50V NPO	256817	-	GK201	Receiver	259938	IR
CT231, 32, 33	47pF 5% 50V NPO	256817	-	# GREEN CRT	CRT Projection Assembly	258483	-
CT263, 64	22pF 1% 50V NPO	259634	-	GREEN YOKE	Yoke	-	Convergence
CT335	27pF 5% 50V NPO	246955	-	# GREEN YOKE	Yoke	258490	Deflection
CT354	3.3pF 50V NPO	256813	-	# HA150	Line Cord	258780	AC, Polarized
CT358	27pF 5% 50V NPO	246955	-	# HV1	HV Splitter	263092	-
CT360	6.8pF 50V NPO	258742	-	L12100	300μH	259496	-
CT374	3.3pF 50V NPO	256813	-	LA001	10μH	259620	-
CT377	27pF 5% 50V NPO	246955	-	LA013, 14	-	259861	-
CT502	10pF 50V NPO	256815	-	LA023, 24	-	259861	-
CT506	39pF 5% 50V NPO	259565	-	LA05	Ferrite Bead	258716	-
CT507	180pF 50V NPO	256822	-	LA050, 51	10μH	259620	-
CT531	27pF 5% 50V NPO	246955	-	LA06	Ferrite Bead	258716	-
CT533	82pF 5% 50V NPO	243371	-	LA063, 64	-	259861	-
CT541	27pF 5% 50V NPO	246955	-	LA090, 91	15μH	259373	-
CT543	82pF 5% 50V NPO	243371	-	LA158, 62, 63	-	259861	-
CT563	10pF 50V NPO	256815	-	LA53, 58	Ferrite Bead	258716	-
CT721, 22	22pF 1% 50V NPO	259634	-	LB05, 06	Ferrite Bead	258716	-
CT944, 45	220pF 5% 50V NPO	249036	-	LB123	68μH	259357	-
CT954, 55	220pF 5% 50V NPO	249036	-	LB152	3.3μH	251881	-
CT964, 65	220pF 5% 50V NPO	249036	-	LB223	68μH	259357	-
CT990 Thru				LB252	3.3μH	251881	-
CT993	1000μF 20% 25V NP	259886	-	LB323	68μH	259357	-
CU030, 31	27pF 5% 50V NPO	246955	-	LB352	3.3μH	251881	-
CV006	374 1% 1/16W	259840	-	LB53, 58	Ferrite Bead	258716	-
CV011	39pF 5% 50V NPO	259565	-	LF022	60μH	258169	-
CV021, 41	180pF 50V NPO	256822	-	LG05, 06	Ferrite Bead	258716	-
CV230	27pF 5% 50V NPO	246955	-	LG104	Ferrite Core Dual	259869	-
CV231, 79	10pF 50V N750	259560	-	LG204	Ferrite Core Dual	259869	-
CV300, 10	5.6pF ±.25pF 50V N750	244059	-	LG304	Ferrite Core Dual	259869	-
CV400, 01	10pF 50V N750	259560	-	LG53	Ferrite Bead	258716	-
CV80	.001 2kV	198806	-	LH001	10μH	259620	-
CV81	820pF 2% 2kV	259907	-	LH500, 01	10μH	259620	-
CV82	120pF 3.5% 2kV	259908	-	LI027	.27μH	243674	-
CV85, 86	.0047 20% 2kV	259365	-	LI033	15μH	259373	-
CV91	330pF 20% 1kV	259366	-	LI527	.27μH	243674	-
CX100, 20	22pF 5% 50V NPO	174406	-	LI533	15μH	259373	-
CX200, 20	22pF 5% 50V NPO	174406	-	LK01	10μH	258719	-
CX300, 20	22pF 5% 50V NPO	174406	-	LK02 Thru			
CX511	10pF 50V NPO	256815	-	LK07	1μH	243496	-
CX612, 22, 32	47pF 5% 50V NPO	256817	-	LK08	10μH	258719	-
CX710	10pF 50V NPO	256815	-	LK09 Thru			
FA010, 30	-	259492	-	LK14	1μH	243496	-
FA160	-	259492	-	LK15 Thru			
FB101	Delay Line	258699	-	LK19	10μH	258719	-
FB201	Delay Line	258699	-	LL001	Horizontal Drive	259293	-
FB301	Delay Line	258699	-	LL005	Ferrite Bead	235858	-
FI007	Filter	259256	4.5MHz	# LL008 (1)	Horizontal Output	259296	-
FI025	Filter	259257	SAW	LL010	Ferrite Bead	258716	-
FI028	VCO	259621	-	LL011, 12	Ferrite Bead	235858	-
FI525	Filter	259257	SAW	# LL029	118μH	259261	-
FI528	VCO	259621	-	LL030	-	259838	-
# FL100	Fuse	259212	250mAmp, 125V	LL032	Ferrite Bead	258716	-
# FL221	Fuse	259214	1.25Amp, 125V	# LL037	Horizontal Linearity	259244	-
# FL231	Fuse	259213	400mAmp, 125V	LL100	Ferrite Bead	244840	-
# FL251	Fuse	259214	1.25Amp, 125V	LL200	21.5μH	259936	-
# FOC1	Focus/Screen	240623	Focus/Screen	LL201	22μH	253638	-
# FP400	Fuse	259216	6Amp, 125V	LL211	Ferrite Bead	235858	-
# FP520, 21	Fuse	259214	1.25Amp, 125V	LL212	22μH	253638	-
FT201, 02	-	259492	-	LL231	10μH	258719	-
FT400	Delay Line	259905	-	LP004	Ferrite Bead	244840	-
FT940, 60	-	259492	-	# LP020	Standby	259276	-
FU001	Crystal	259850	24.576MHz	# LP050	SMT	259320	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
LP051	-	259838	-
# LP070	P-S Deflection	259279	-
LP112	100μH	259854	-
LP113	Ferrite Bead	258716	-
LP140, 51	47μH	259853	-
# LP401	-	253697	-
# LP50	SMT	259271	-
LP60, 65	68μH	258702	-
LP70, 75	68μH	258702	-
LR001	-	259860	-
LR010	-	259648	-
LR011, 12	-	259859	-
LR015	-	259648	-
LR016, 17	-	259859	-
LR020	-	259648	-
LR021, 22	-	259859	-
LR025	-	259648	-
LR110	-	259648	-
LR111	-	259859	-
LR115	-	259648	-
LR116	-	259859	-
LR130	-	259648	-
LS30, 31	-	263911	-
LT241, 42, 43	10μH	259644	-
LT261	Ferrite Bead	259250	-
LT501	15μH	238094	-
LT502	5.6μH	243892	-
LT503	12μH	243499	-
LT511	47μH	195713	-
LT513	Ferrite Bead	215546	-
LT514	47μH	195713	-
LT516	Ferrite Bead	215546	-
LT531	10μH	243675	-
LT532	12μH	243499	-
LT541	10μH	243675	-
LT542	12μH	243499	-
LT543	Ferrite Bead	215546	-
LT545, 51	47μH	195713	-
LT553	Ferrite Bead	215546	-
LT561	15μH	238094	-
LT571	Ferrite Bead	226467	-
LT601	.33μH	259323	-
LT611 Thru			
LT614	.33μH	259363	-
LT621, 22, 23	-	247980	-
LT641 Thru			
LT644	.33μH	259363	-
LT691	10μH	259644	-
LT754	Ferrite Bead	215546	-
LU008	10μH	259644	-
LU010	10μH	259644	-
LU014, 15	Filter	259860	-
LV002	1μH	243496	-
LV004	2.2μH	239143	-
LV01	220μH	259237	-
LV011	3.9μH	259364	-
LV021, 41	5.6μH	243892	-
LV100	10μH	259620	-
LV200	10μH	259620	-
LV300, 10, 20	2.2μH	239143	-
# LV80	-	259233	-
LV90	10μH	258719	-
LW06, 07	10μH	258719	-
LX409, 10	Ferrite Bead	259250	-
NH500	Switch	259618	Antenna
NH501	Tuner	259617	Slave, CTF5805
NH503	Tuner	259617	Main, CTF5805
PP180	470	230995	B+ Adjust
QA001	Crystal	258733	18.432MHz

Item No.	Function/Rating	Mfr. Part No.	Notes
QC536	Crystal	259571	3.58MHz
QC736	Crystal	259571	3.58MHz
QI033	Trap	198613	4.5MHz
QI533	Trap	198613	4.5MHz
QR001	Filter	235882	8MHz
QT231	Resonator	242877	4MHz
QT260	Crystal	259897	20.25MHz
QT501	Crystal	227894	20MHz
QV400	Crystal	259636	12MHz
RA01	3900 1% .4W	259476	-
RA03	332 1% 1/4W	259472	-
RA04	2430 1% 1/4W	259471	-
RA05	162 1% 1/4W	259465	-
# RA051	47 5% 1/4W	235901	-
RA063, 64	220 2% 1/8W	181492	-
RA07	8870 1% 1/4W	259485	-
# RA080	4.7 5% 1/4W	235901	-
RA09	1.8 1% 1W	259358	-
RA10	3320 1% 1/4W	259475	-
# RA12	.47 10% .4W	259486	-
# RA120, 21	4.7 5% 1/4W	235901	-
RA13	267K 1% 1/4W	259469	-
# RA14	.47 10% .4W	259486	-
RA20	2430 1% 1/4W	259471	-
RA51	332 1% 1/4W	259472	-
RA52	2430 1% 1/4W	259471	-
RA53	162 1% 1/4W	259465	-
RA55	267K 1% 1/4W	259469	-
RA56	3320 1% 1/4W	259475	-
RA57	1.8 1% 1W	259358	-
# RA58, 59	.47 10% .4W	259486	-
RA60	8870 1% 1/4W	259485	-
RA61	3900 1% 1/4W	259476	-
RA64	2430 1% 1/4W	259471	-
RB01	3900 1% 1/4W	259476	-
RB03	332 1% 1/4W	259472	-
RB04	2430 1% 1/4W	259471	-
RB05	162 1% 1/4W	259465	-
RB07	8870 1% 1/4W	259485	-
RB09	1.8 1% 1W	259358	-
RB10	3320 1% 1/4W	259475	-
RB106	475 1% 62.5mW	253719	-
RB107	681 1% 62.5mW	253811	-
RB108, 09	475 1% 62.5mW	253719	-
RB111, 12	475 1% 62.5mW	253719	-
RB114	3920 1% 62.5mW	253727	-
# RB12	.47 10% .4W	259486	-
# RB122, 25	10 5% 1/4W	232249	-
RB13	267K 1% 1/4W	259469	-
RB133	2210 1% 62.5mW	253722	-
# RB134	330 5% 1/16W	256735	-
# RB14	.47 10% .4W	259486	-
RB141	825 1% 1/4W	259963	-
RB142	715 1% 1/4W	245488	-
# RB144	470 5% 1/2W	258704	-
RB150	39K 2% 4W	258739	-
RB155, 56	1820 1% 1/16W	263291	-
# RB167	2200 5% 1/2W	258705	-
RB20	2430 1% 1/4W	259471	-
RB206	475 1% 62.5mW	253719	-
RB207	681 1% 62.5mW	253811	-
RB208, 09	475 1% 62.5mW	253719	-
RB211, 12	475 1% 62.5mW	253719	-
RB214	3920 1% 62.5mW	253727	-
# RB222, 25	10 5% 1/4W	232249	-
RB227	3920 1% 62.5mW	253727	-
RB228	7150 1% 1/16W	259767	-
RB233	1820 1% 1/16W	259843	-
# RB234	330 5% 1/16W	256735	-

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Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
RB235	1820 1% 1/16W	263291	-	RG52	2430 1% 1/16W	259607	-
RB237	3920 1% 62.5mW	253727	-	RG53	162 1% 1/4W	259465	-
RB241	825 1% 1/4W	259963	-	RG55	267K 1% 1/4W	259469	-
RB242	715 1% 1/4W	245488	-	RG56	3320 1% 1/4W	259475	-
# RB244	470 5% 1/2W	258704	-	RG57	1.8 1% 1W	259358	-
RB250	39K 2% 4W	258739	-	# RG58, 59	.47 10% .4W	259486	-
RB255, 56	1820 1% 1/16W	263291	-	RG60	8870 1% 1/4W	259485	-
# RB267	2200 5% 1/2W	258705	-	RG61	3900 1% .4W	259476	-
RB306	475 1% 62.5mW	253719	-	RG64	2430 1% 1/4W	259471	-
RB307	681 1% 62.5mW	253811	-	RK09	374 1% 1/16W	259840	-
RB308, 09, 11, 12	475 1% 62.5mW	253719	-	RK101	5620 1% 1/4W	259480	-
RB314	3920 1% 62.5mW	253727	-	RK102	1500 1% 1/4W	259348	-
# RB322, 25	10 5% 1/4W	232249	-	RK103	453 1% 1/4W	259477	-
RB326	332 1% 62.5mW	253718	-	RK104	3320 1% 1/4W	259475	-
RB327	2210 1% 62.5mW	253722	-	RK105	681 1% 1/4W	259481	-
RB328	8660 1% 1/16W	259490	-	RK11 Thru			
RB330	1300 1% 1/16W	259844	-	RK15	374 1% 1/16W	259840	-
RB331	909 1% 1/16W	259775	-	RK20	374 1% 1/16W	259840	-
RB333	1500 1% 62.5mW	253720	-	RK201	1000 2% 1/4W	259430	-
# RB334	330 5% 1/16W	256735	-	RK25	1000 1% 1/16W	263913	-
RB335	1820 1% 1/16W	263291	-	RK35, 36, 37	324 1% 1/16W	259839	-
RB337	1210 1% 1/16W	253803	-	RK39 Thru			
RB339	2000 1% 62.5mW	253726	-	RK42	324 1% 1/16W	259839	-
RB341	825 1% 1/4W	259963	-	RK60, 62, 64	2430 1% 1/16W	259841	-
RB342	715 1% 1/4W	245488	-	RK66, 68, 70	2430 1% 1/16W	259841	-
# RB344	470 5% 1/2W	258704	-	# RL015	5.6 5% 1/4W	259461	-
RB350	39K 2% 4W	258739	-	RL021	1.5 1% .7W	259230	-
RB355, 56	1820 1% 1/16W	263291	-	RL022	1000 1% 1/4W	179753	-
# RB367	2200 5% 1/2W	258705	-	RL023	3.9M 2% .4W	259336	-
RB51	332 1% 1/4W	259472	-	# RL024	82.5K 1% 1/4W	263909	-
RB52	2430 1% 1/4W	259471	-	RL025	1.5 1% .7W	259230	-
RB53	162 1% 1/4W	259465	-	# RL027	2200 5% 1/2W	258705	-
RB55	267K 1% 1/4W	259469	-	RL030	4.7 5% 3W	259564	-
RB56	3320 1% 1/4W	259475	-	RL044	191K 1% 1/4W	259466	-
RB57	1.8 1% 1W	259358	-	RL045	511K 1% 1/4W	259478	-
# RB58, 59	.47 10% .4W	259486	-	RL231	4.7 5% 3W	259564	-
RB60	8870 1% 1/4W	259485	-	RL303	33.2K 1% 1/4W	259473	-
RB61	3900 1% .4W	259476	-	RL308	56.2K 1% 1/4W	200447	-
RB64	2430 1% 1/4W	259471	-	RL310	46.4K 1% .7W	259228	-
# RED CRT	CRT Projection Assembly	258482	-	RL311	2210 1% 1/4W	259470	-
RED YOKE	Yoke	-	Convergence	# RP020	100 5% 3/4W	258703	-
# RED YOKE	Yoke	258490	Deflection	# RP050	10M 5% 1W	259608	-
RF003, 06	1300 1% .4W	259467	-	# RP051	100 5% 10W	-	-
RF008	1.5 1% .7W	259230	-		100 5% 4.5W	259876	-
RF011, 12	1.5 1% .7W	259230	-	# RP052	.1 5% 2.5W	258722	-
RG01	3900 1% .4W	259476	-	RP183	39K 1% 1/4W	259345	-
RG03	332 1% 1/4W	259472	-	RP184	4750 1% 1/4W	214091	-
RG04	2430 1% 1/4W	259471	-	RP185	56K 2% 1/4W	176801	-
RG05	162 1% 1/4W	259465	-	RP203	2430 1% 1/4W	259471	-
RG07	8870 1% 1/4W	259485	-	RP204	4750 1% 1/4W	214091	-
RG09	1.8 1% 1W	259358	-	RP242	392 1% 1/4W	259474	-
RG10	3320 1% 1/4W	259475	-	RP243	1000 1% 1/4W	179753	-
RG105	1820 1% 62.5mW	253721	-	RP32	4.7 5% 3W	259564	-
# RG12	.47 10% .4W	259486	-	# RP400	1.5M 5% 1W	259288	-
RG123	1000 1% 1/10W	252359	-	# RP401	1.5 5% 1W	259288	-
RG126, 27	3300 5% 3W	259643	-	RP402, 03	1.5 5% 10W	-	-
RG13	267K 1% 1/4W	259469	-		1.5 5% 4.5W	259872	-
# RG130	22 5% 1/4W	259459	-	# RP405, 06	VDR	259512	-
# RG14	.47 10% .4W	259486	-	RP522	470 1% 1/16W	259758	-
RG20	2430 1% 1/4W	259471	-	RP523, 24, 25	1000 1% 1/10W	252359	-
RG205	1820 1% 62.5mW	253721	-	RP900	3320 1% 1/4W	259473	-
RG223	1000 1% 1/10W	252359	-	RP92	825 1% 1/4W	259484	-
RG226, 27	3300 5% 3W	259643	-	RP93	1580 1% 1/4W	259468	-
# RG230	22 5% 1/4W	259459	-	RR005	1500 1% 62.5mW	253720	-
RG305	1820 1% 62.5mW	253721	-	RR017	1500 1% 62.5mW	253720	-
RG323	1000 1% 1/10W	252359	-	RR117	1500 1% 62.5mW	253720	-
RG326, 27	3300 5% 3W	259643	-	RR300 Thru			
# RG330	22 5% 1/4W	259459	-	RR312	100 X 4 Network	259855	-
RG51	332 1% 1/4W	259472	-	RR320 Thru			

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
RR329	100 X 4 Network	259855	-	RV29	3650 1% .4W	259349	-
RR340, 41	100 X 4 Network	259855	-	RV30	2210 1% 62.5mW	253722	-
RS08, 09	1820 1% 1/16W	263914	-	RV31	5360 1% .4W	259479	-
RT201, 03, 05	75 1% 1/8W	259969	-	RV32, 33	2210 1% 62.5mW	253722	-
RT207, 09, 11	75 1% 1/8W	259969	-	RV34	750 1% 1/16W	259558	-
RT213, 15, 21	75 1% 1/8W	259969	-	RV45	8660 1% 1/16W	259490	-
RT222, 25, 26	75 1% 1/8W	259969	-	RV521	127K 1% 1/8W	259956	-
RT227, 31, 32, 33	75 1% 1/8W	259969	-	RV524	470K 2% 1/8W	259957	-
RT238	10K 1% 1/10W	252355	-	RV527	18.2K 1% 62.5mW	253807	-
RT244	15K 1% 1/16W	259563	-	RV528	17.8K 1% 1/8W	259970	-
RT245	84.5K 1% 1/16W	259953	-	RV529	470K 2% 1/8W	259957	-
# RT263	10 10% 1/4W	259343	-	RV530	53.6K 1% 1/16W	259603	-
RT335	866 1% 1/16W	259503	-	RV532	10K 1% 1/8W	220130	-
RT336	2150 1% 1/16W	259640	-	RV541	39.2K 1% 62.5mW	253848	-
RT337	274 1% 1/16W	259602	-	RV556	330K 2% 1/8W	205304	-
RT338	5620 1% 1/16W	259562	-	RV91, 92	1820 1% 1/16W	263291	-
RT339	1000 1% 1/10W	252359	-	RX100, 20, 30	75 1% 1/8W	259969	-
RT341	75 1% 1/8W	259969	-	RX200, 20	75 1% 1/8W	259969	-
RT342	1240 1% 1/16W	259609	-	RX300, 20	75 1% 1/8W	259969	-
# RT343	10 10% 1/4W	259343	-	RX500	169 1% 1/8W	259968	-
RT358	866 1% 1/16W	259503	-	RX501	240 2% 1/8W	190460	-
RT359	6340 1% 1/16W	259604	-	RX532	261 1% 1/16W	259670	-
RT360	2430 1% 1/16W	259607	-	RX580, 82, 85, 86	75 1% 1/8W	259969	-
RT361	2150 1% 1/16W	259640	-	RX652	2430 1% 1/16W	259607	-
RT362	5620 1% 1/16W	259562	-	RX653	2210 1% 62.5mW	253722	-
RT363	274 1% 1/16W	259602	-	RX672	2430 1% 1/16W	259607	-
RT364	1000 1% 1/10W	252359	-	RX673	2210 1% 62.5mW	253722	-
RT366	75 1% 1/8W	259969	-	RX700	169 1% 1/8W	259968	-
# RT368	10 10% 1/4W	259343	-	RX701	240 2% 1/8W	190460	-
RT379	866 1% 1/16W	259503	-	RX732	261 1% 1/16W	259670	-
RT380	1240 1% 1/16W	259609	-	SK100	Switch	257860	Power
RT381	2150 1% 1/16W	259640	-	SK101	Switch	257860	Menu
RT382	5620 1% 1/16W	259562	-	SK102	Switch	257860	Channel -
RT383	274 1% 1/16W	259602	-	SK103	Switch	257860	Channel +
RT384	1000 1% 1/10W	252359	-	SK104	Switch	257860	Volume -
RT386	75 1% 1/8W	259969	-	SK105	Switch	257860	Volume +
# RT387	10 10% 1/4W	259343	-	SP1, 2	Speaker	205260	51mm, 8 Ohms, 2W
# RT403	4.7 5% 1/4W	235901	-		Speaker	258666	103mm, 8 Ohms, 20W
RT506	374 1% 1/16W	259840	-	# SP402, 03	Spark Gap	259511	-
RT507	475 1% 62.5mW	253719	-	ST980	Switch	259501	Speaker, Internal/External
RT513	221 1% 62.5mW	253717	-		Coil	258798	SVM
RT517	47.5K 1% 62.5mW	253716	-		Fuse Holder	244842	-
RT532, 42	357 1% 62.5mW	253668	-		Lens	258489	Delta 240
RT551 Thru					Mirror	258773	Projection, Mylar
RT554	100 X 4 Network	243669	-		Mirror	258772	Projection, Glass
# RT571	10 10% 1/4W	259343	-		PC Board	253485	Audio Crossover
RT603	4700 X 4 Network	259493	-		PC Board	258757	Blue CRT
RT611	412 1% 1/16W	259497	-		PC Board	258755	Convergence Adaptor/Power Supply
RT637	143 1% 1/16W	259499	-		PC Board	258754	Convergence Amp
# RT900	4.7 5% 1/4W	235901	-		PC Board	258753	Convergence Generator
RU004	37.4K 1% 1/16W	259605	-		PC Board	258745	Digital Ready Interface
RU007	22.1K 1% 62.5mW	253724	-	#	PC Board	258748	Front A/V Input
RU008	475 1% 62.5mW	253719	-		PC Board	258747	Front Panel
RU010	2610 1% 1/16W	259722	-		PC Board	258758	Green CRT
RU013, 18, 19	475 1% 62.5mW	253719	-		PC Board	258764	IR Preamp
RV007	750 1% 1/16W	259558	-		PC Board	258750	Main Input Doubler
RV01	4.7 5% 3W	259564	-		PC Board	258762	Power Supply/Deflection
RV010	475 1% 62.5mW	253719	-		PC Board	258756	Red CRT
RV011	665 1% 1/10W	252361	-	#	PC Board	258761	Small Signal
RV013	475 1% 62.5mW	253719	-		Screen	258786	Projection
RV014	825 1% 1/16W	259641	-		Sensor	248432	Convergence
RV09	4.7 5% 3W	259564	-		Transmitter	257003	Remote, RCR160TALM
RV17	681 1% .4W	259482	-				
RV21	1820 1% 1/16W	263291	-	# For SAFETY use only equivalent replacement part.			
RV22	681 1% .4W	259482	-	(1) Screen and focus controls are part of LL008.			
RV24	1820 1% 1/16W	263291	-				
RV25	3650 1% 1/16W	259610	-				
RV250, 51, 52	75 1% 1/8W	259969	-				
RV26	681 1% .4W	259482	-				
RV28	10K 1% .4W	160155	-				