

SAFETY PRECAUTIONS

SERVICE WARNING

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

SERVICING THE HIGH VOLTAGE AND CRT

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

X-RAY RADIATION AND HIGH VOLTAGE LIMITS

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

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

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SAFETY CHECKS -- FIRE AND SHOCK HAZARD

Cold Leakage Checks for Receivers with Isolated Ground

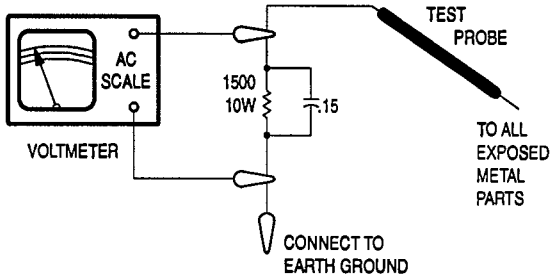
Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with 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.

GENERAL GUIDELINES

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



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PHOTOFACT® Technical Service Data

SET 3522

MODEL CT1922C121 (CHASSIS 19E601-00A1)

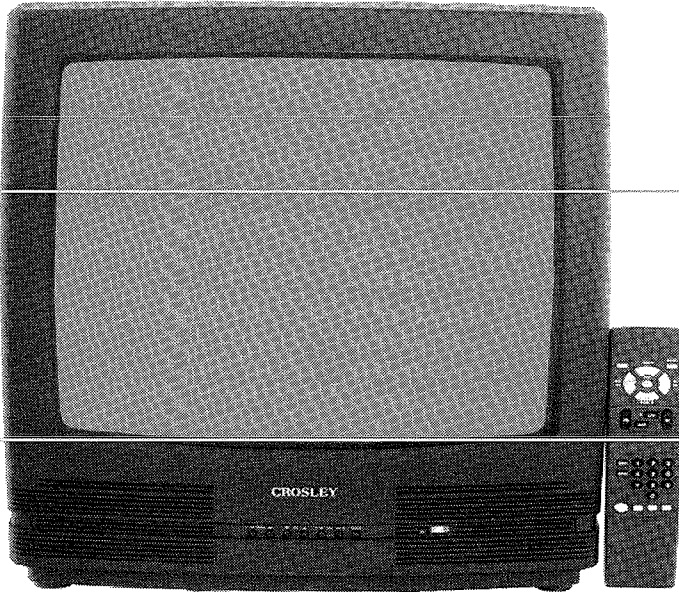
CROSLEY

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See PHOTOFACT Annual Index

CROSLEY
Model CT1922C121 (Chassis 19E601-00AA)



Complete coverage
for servicing a television receiver...

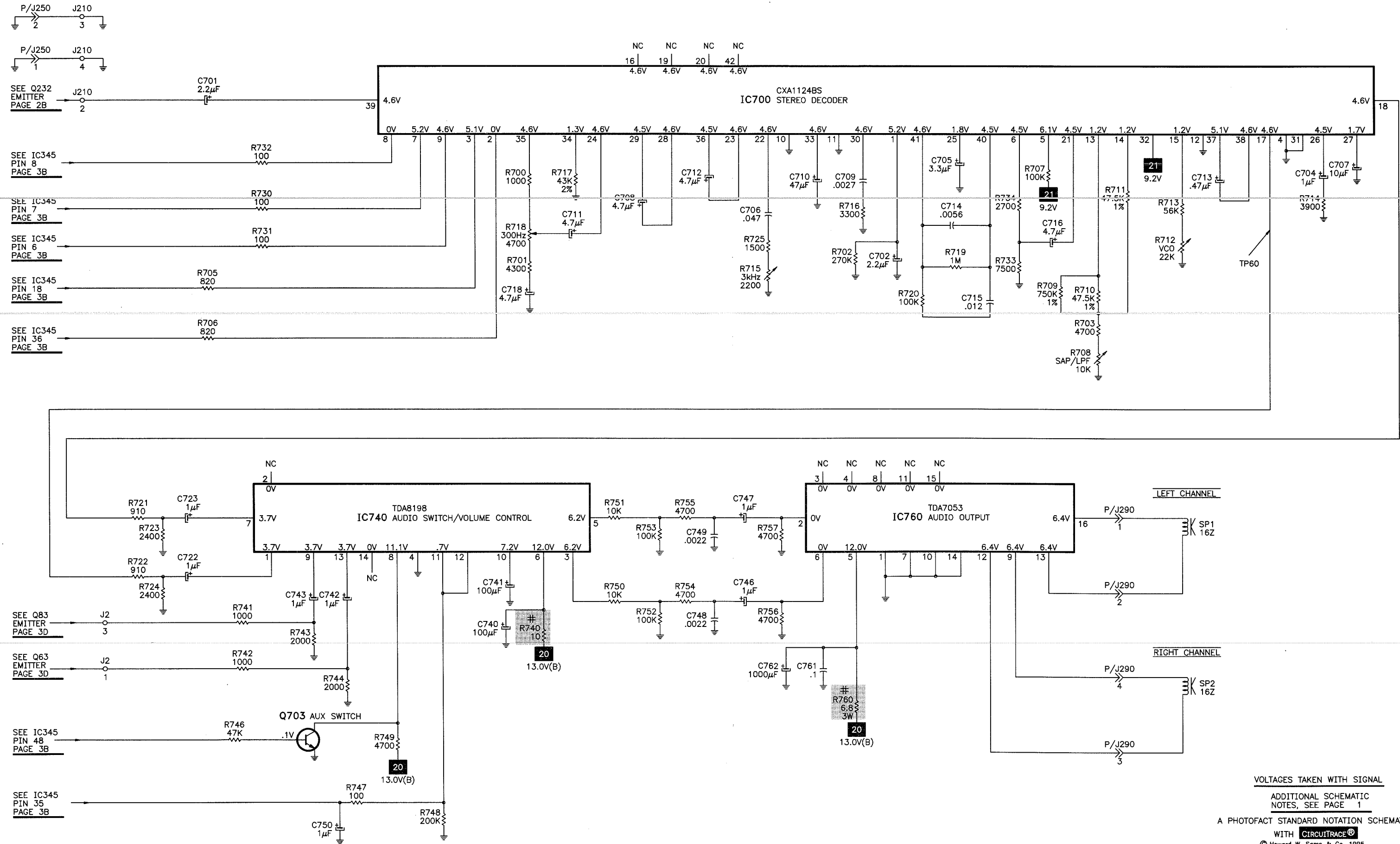
- Schematics
- Component locations
- Parts list
- Troubleshooting guide



HOWARD W. SAMS & COMPANY

JULY 1995 SET 3522

AUDIO SCHEMATIC



CROSLEY

MODEL CT1922C121 (CHASSIS 19E601-00AA)

VOLTAGES TAKEN WITH SIGNAL

ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 1

A PHOTOFAC STANDARD NOTATION SCHEMATIC

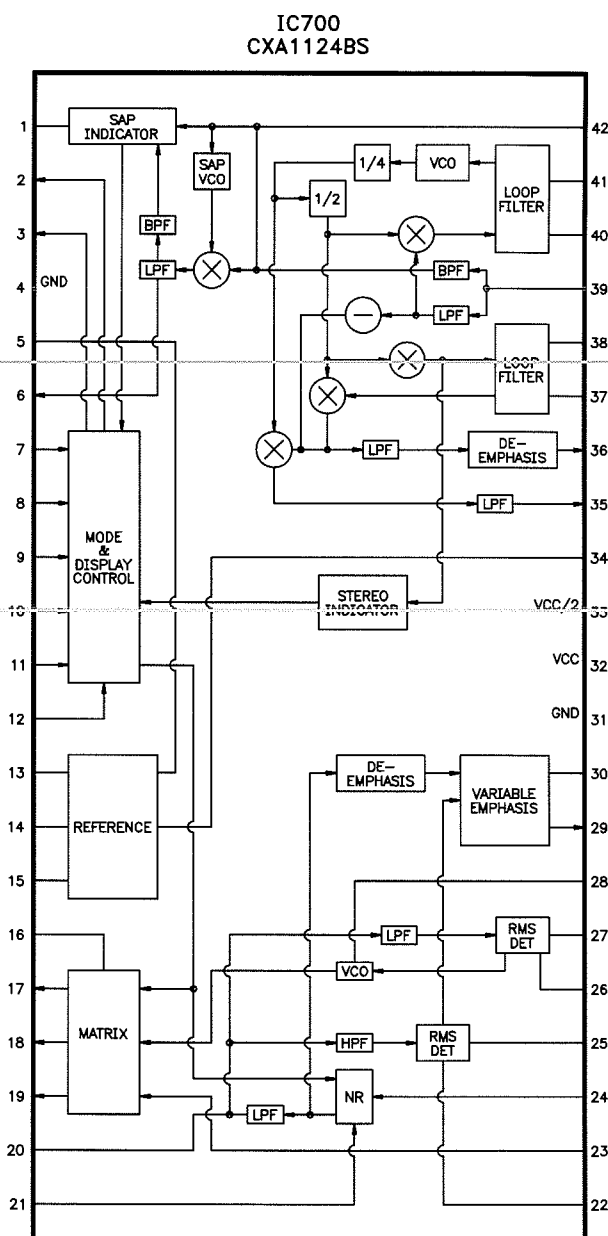
WITH CIRCUITTRACE®

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G

H

IC FUNCTIONS



IC760
TDA7053

1 S GND

2 1N1

3

4

5 +V_P

6 1N2

7 S GND

8

OUT 1+

1+1

P GND 1

1-1

OUT 1-

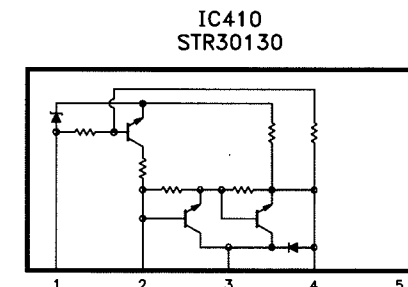
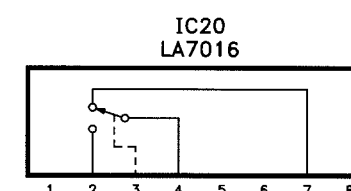
OUT 2-

1-1

P GND 2

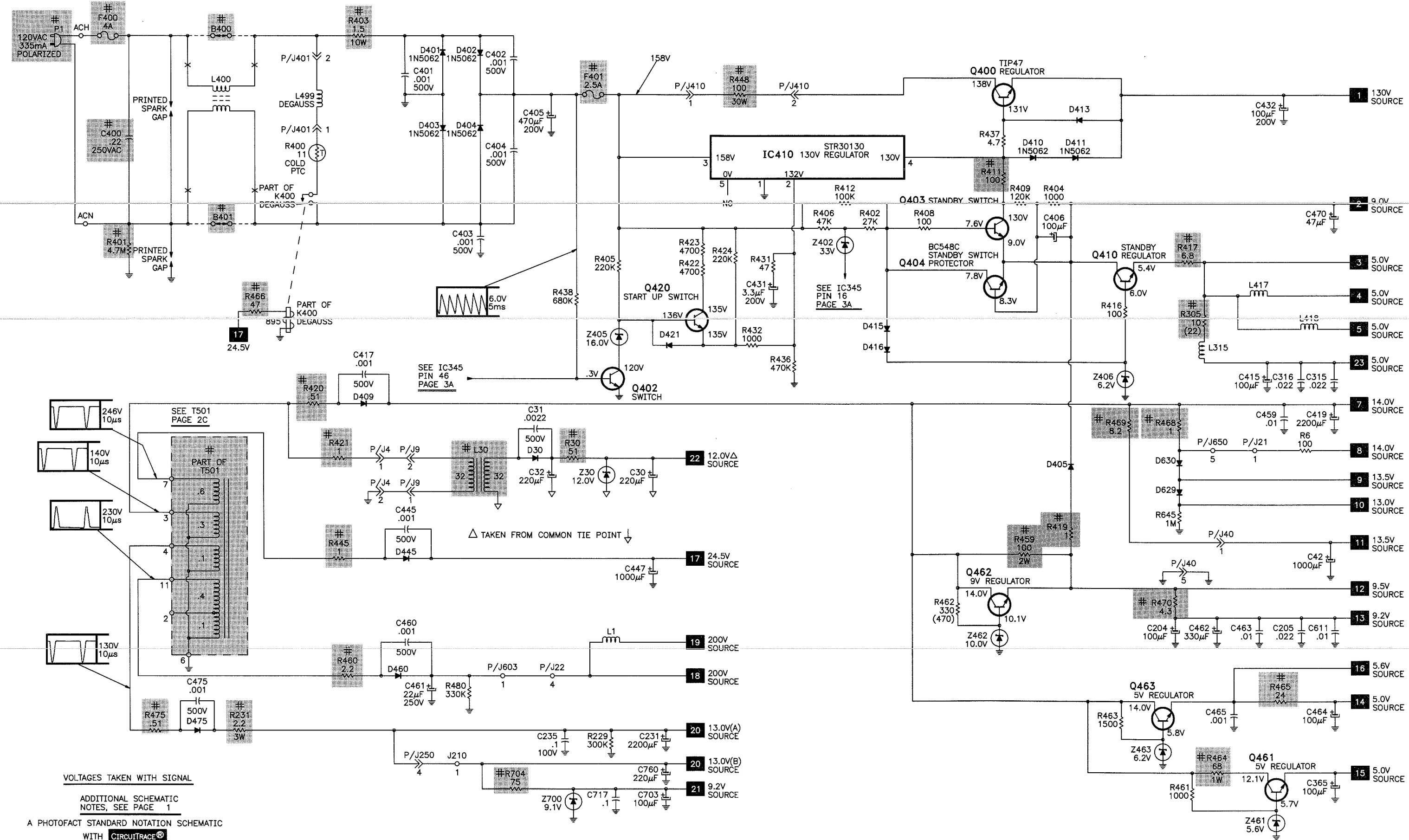
1+1

OUT 2+



MODEL CT1922C121 (CHASSIS 19E601-00AA)

POWER SUPPLY SCHEMATIC



TROUBLESHOOTING

POWER SUPPLY

Check AC fuse F400. If AC fuse is open, check D401 thru D404, R401, R403, and C400 thru C405. Check DC fuse F401. If DC fuse is open, check IC410, Q400, and Q502. Apply 120VAC, and with receiver off, check for 12.6V at the emitter of Q403. If the voltage is missing, check Q403, Q404, R411, R408, and Z402. Check for 16.0V at pin 4 of IC410. If voltage is missing, check Q402, Q420, and Z405. Check for 5.4V at the emitter of Q410. If voltage is missing, check Q410 and Z406. Turn receiver on and check for 130V at the emitter of Q400. If voltage is missing, check for 132V at pin 2 of IC410 and check Q400 and IC410. Check for 9.0V at collector of Q410. If voltage is missing, check D405, Q462, R419, and refer to the "Horizontal" section of this Troubleshooting guide.

HIGH VOLTAGE SHUTDOWN TEST

Connect a variable power supply to cathode of Z530, low side to ground. Increase power supply voltage, the receiver should shut down when voltage reaches 25.0V. If the receiver fails to shutdown the high voltage shutdown circuit needs repaired.

HIGH VOLTAGE SHUTDOWN

CAUTION: When defeating the high voltage shutdown circuit, do not exceed the maximum high voltage specified on the schematic, as this may cause excessive X-radiation and damage to the CRT and associated components. Monitor the high voltage while troubleshooting.

The high voltage is monitored by D530 rectifying the pulses from T501. Should the high voltage increase, the output to Q530 will increase and supply a voltage that is above 6.0V to pin 12 of IC270. The horizontal oscillator will change frequency and decrease the high voltage. To troubleshoot, remove R530 from the circuit and use a variable transformer for AC power. Start at 90.0VAC and increase as necessary to locate and repair the defect. Return R530 to the circuit.

HORIZONTAL

Determine if the receiver is in shutdown by referring to the "High Voltage Shutdown" section of this Troubleshooting guide. If the receiver is not in shutdown, inject a horizontal signal at the base of Q502. If horizontal deflection is now present, check Q501, and pins 13, 19, and 20 of IC270. If horizontal deflection is not present, check Q502, T501, and the components associated with D409, D445, D475, and D460 for defects. The high voltage rectifier is part of T501 and if defective will affect the operation of the horizontal circuits. Horizontal linearity or foldover may be caused by C505, C506, C507, C510, or C511 being defective.

VERTICAL

Check for a proper waveform at pin 18 of IC270. If the waveform is missing, check pins 16, 17, and 18 of IC270. If the waveform is present, check Q560, Q565, and IC550. Vertical linearity or height problems may be caused by vertical feedback and bias circuits. Check C551, C554, and C563.

IF AGC

Inject a video IF signal at pin 8 of IC270 and check for video on the CRT. If video is present, check the tuner, tuner control, and tuner AFC circuits. If video is missing from the CRT, apply AGC bias at pin 5 of IC270 and check for a video waveform at pin 52 of IC270. If the waveform is present, check pins 1, 5, 6, and 26 of IC270. If waveform is missing, check Q510, Q273, and pins 8, 9, 26, 34, 40, 47, 48, 50, 51, and 52 of IC270.

VIDEO

Inject a video signal at pin 52 of IC270 and check for video on the CRT. If video is present, refer to the "IF AGC" section of this Troubleshooting guide. If video is missing on the CRT, check for luminance at the base of Q602. If waveform is missing, check IC20, Q20, Q210. Check for proper waveforms at pins 23, 24, and 25 of IC270. If waveforms are missing or incorrect, check IC270 and Q610. If video is present, refer to the "Raster" section of this Troubleshooting guide. If brightness is inadequate or cannot be controlled, check the voltages and components associated with pin 37 of IC270.

CHROMA

Check for a chroma waveform at pin 37 of IC270. If waveform is missing, check Q210 and IC270. Check for the proper waveforms at pins 23, 24, and 25 of IC270. If these waveforms are missing, check pins 21 thru 25, 27 thru 34, 36, and 38 of IC270. Check the 3.58MHz oscillator at pins 30 and 31 of IC270. Check pin 21 of IC270. If there is inadequate tint range, check pin 33 of IC270.

RASTER

Check the CRT and CRT voltages. If red is missing, check pin 23 of IC270, Q632, and Q1. If green is missing, check pin 24 of IC270, Q631, and Q2. If blue is missing, check pin 25 of IC270, Q630, and Q3. If the raster has a keystone shape, check the deflection yoke. If the raster has height or width problems, refer to the "Vertical," "Horizontal," or "Power Supply" sections of this Troubleshooting guide.

AUDIO

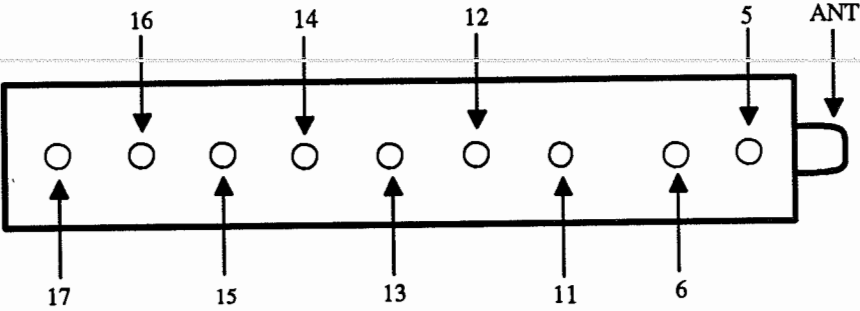
Select an active channel and check for an audio waveform at pin 3 of IC270. If audio is missing, check pins 2, 3, and 49 of IC270. Select a station that is transmitting a stereo signal and check for an audio waveform at pin 39 of IC700. If waveform is missing, check Q232. Check for audio waveforms at pins 17 and 18 of IC700. If the waveforms are missing, check IC700. Check for audio at pins 9, 12, 13, and 16 of IC760. If audio is missing, check IC760 and IC740. Check the voltage at pin 11 of IC740, it should measure .7V at mute and 4.3V at maximum volume.

TUNER INFORMATION

TUNER VOLTAGE CHART

Pin No.	VHF Low Band	VHF High Band	UHF Band	Pin No.	VHF Low Band	VHF High Band	UHF Band
5	8.8V	8.8V	8.8V	15	1.9V	2.0V	1.9V
6	12.0V	12.0V	12.0V	16	0V	0V	0V
11	.7V	1.6V	1.6V	17	0V	0V	0V
12	5.0V	5.0V	5.0V	NOTE: VHF Low Band voltages taken on channel 2. VHF High Band voltages taken on channel 7. UHF Band voltages taken on channel 14.			
13	5.0V	5.0V	5.0V				
14	5.0V	5.0V	5.0V				

TUNER TERMINAL GUIDE



SCHEMATIC NOTES

- # For SAFETY use only equivalent replacement part, see parts list.
- ✖ Circuitry not used in some versions.
- Circuitry used in some versions.
- ⏏ Ground
- ⏏ Chassis ground
- ▽ Common tie point
- △ Taken from common tie point
- 3 Schematic CIRCUITRACE®: Voltage source tie point.
- A Cabling: Heavy lines reduce use of multiple lines.

Waveforms and voltages are taken from ground, unless noted otherwise.
Waveforms taken with triggered scope and colorbar signal. Waveform voltage is peak to peak. Timebase is per division. Waveforms shown at 10 divisions. Supply voltages maintained as seen at input. Voltages measured with digital meter and a 1000µV RF signal, with colorbar pattern, applied to antenna terminal. Controls adjusted for normal operation. Capacitors are 50 volts or less, 5% or greater unless noted. Electrolytic capacitors are 50 volts or less, 20% or greater unless noted. Resistors are 1/2W or less, 5% or greater unless noted. Value in () used in some versions. Measurements with switching as shown, unless noted. Rated voltage shown on zener diodes.



MISCELLANEOUS ADJUSTMENTS

RF AGC

Tune in a medium strength station. Rotate R206 clockwise until snow appears, then back to a point where snow just disappears.

HORIZONTAL CENTERING

Tune in a picture. Adjust R520 for best horizontal centering.

SUB BRIGHTNESS

Tune in an active station. Set color and picture settings to minimum. Set brightness to midrange. Adjust R669 for just visible highlights.

VIDEO INPUT

Inject a 1.0V p-p video signal into the Video Input jack. Connect an oscilloscope to TP52, low side to ground. Adjust R40 for 2.0V p-p.

LEFT AUDIO INPUT

Inject a 1.0V p-p 1kHz audio signal into the Left Audio In jack. Connect an oscilloscope to TP54, low side to ground. Adjust R80 for 1.5V p-p.

RIGHT AUDIO INPUT

Inject a 1.0V p-p 1kHz audio signal into the Mono/Right Audio In jack. Connect an oscilloscope to TP53, low side to ground. Adjust R60 for 1.5V p-p.

COLOR PURITY

Operate the receiver for 15 minutes. Use a degaussing coil to demagnetize the CRT and mounting hardware. Position the convergence/purity assembly with the 2Y pole rings over the gun element gap nearest the CRT bell gap (between G2 and G3). Turn R649 fully clockwise and R643 fully counterclockwise. Loosen the yoke and remove the yoke wedges. Slide the yoke against the bell of the CRT and tighten the clamp enough to hold the yoke in position. Tune in a single-cross pattern and adjust the 2Y pole rings for parallel red and blue lines, as centered and overlapped as possible.

Tune in a white screen. Turn R650, R648, and R643 controls fully clockwise, and R649 and R642 controls fully counterclockwise. Spread the 2X pole rings for a centered green area. Move the yoke back for best green purity and tighten the yoke clamp just enough to hold the yoke in position. Perform convergence adjustment.

COLOR TEMPERATURE

Disconnect the antenna. Set the brightness, sharpness, tint, and picture to mid-range. Set the color, screen, R642, R643, R648, R649, and R650 controls to minimum. Disconnect the vertical yoke connector. Adjust the screen control to obtain a faintly visible line, then decrease until line just disappears. Set the drive and cutoff controls to maximum. Note the predominant color. Adjust the two remaining cutoff controls for best white balance of line. Reconnect the vertical yoke connector and set the color control to mid-range. Tune in a color picture and adjust the drive controls for best white balance at all brightness levels.

CONVERGENCE

Operate the receiver for fifteen minutes. Set R642, R643, R648, R649, and R650 to midrange. Tune in a dot pattern. Adjust the 4 pole magnet tabs to converge the red and blue dots at the center of the screen. Adjust the 6 pole magnet tabs to converge the red/blue dots with the green dots at the center of the screen. Spread the two tabs of each set of magnets equally and opposite to converge vertically, and rotate both tabs in the same direction to converge horizontally. The 4 and 6 pole magnets interact, repeat adjustment until center convergence is correct. Tune in a crosshatch pattern. Remove the rubber wedges between the deflection yoke and the CRT. Tilt the deflection yoke up or down to converge the vertical lines at the top and bottom of the screen, and the horizontal lines at the right and left sides of the screen. Tilt the deflection yoke right or left to converge the horizontal lines at the top and bottom of the screen, and vertical lines at the right and left sides of the screen. Repeat convergence procedure as necessary to obtain best overall convergence.

TEST MODE SERVICE INFORMATION

NOTE: To perform all test mode functions, a prior year 23 or 25 push-button "stick" transmitter, UR14, T251, or a NAP universal remote transmitter must be used.

To enter test mode, turn the receiver on, then enter 0, 6, 2, 5, 9, 6, and press menu button on the receiver, without allowing time out between key entries. The two line screen display indicates circuit and register information as follows.

Top left; 2988-4 indicates the software version of the microprocessor in use.

Top right; E indicates the failure of a functional part of the system. Error codes will be displayed only if the function is not operating properly or the receiver does not include a particular feature. A = tuner, B = memory, C = remote locator, D = automatic volume level, and E = color PIP.

Bottom left; channel number.

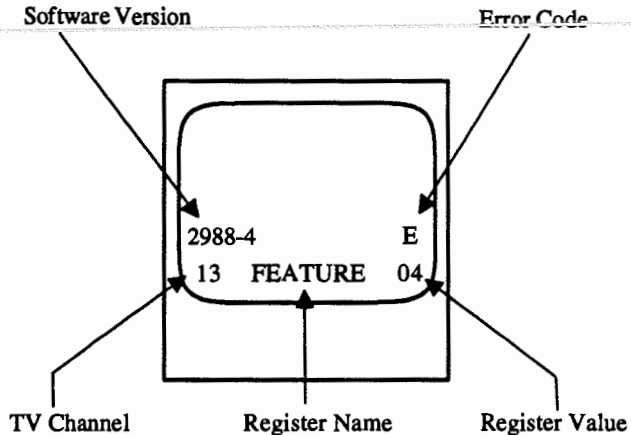
Bottom middle: name of current register.

Bottom right; register value in hexadecimal.

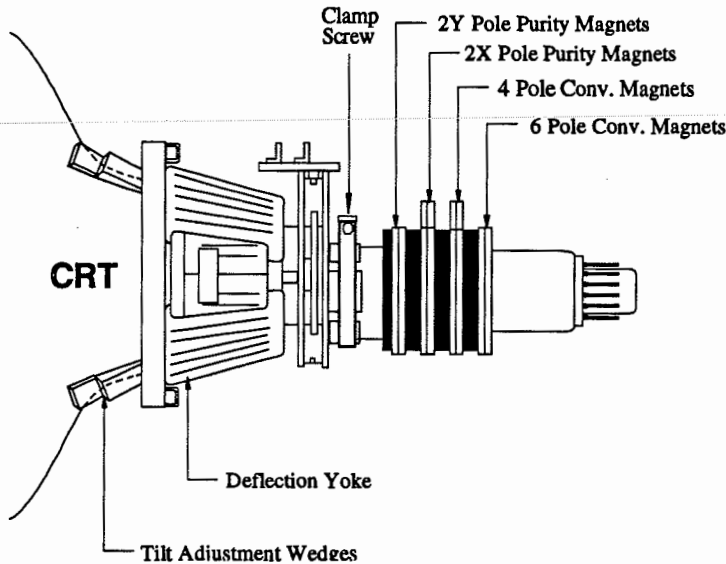
To access a register press menu button on remote transmitter until the desired register appears on screen. Change the value of a selected register by pressing the + or - keys. Depressing the "Status/Exit" key on the remote transmitter the runtime will be displayed in hexadecimal format in the upper left hand corner of the screen. Depressing the "Personal Preference" key on the transmitter will reset all register values to the factory position (if used). Store the register value by turning the receiver off with the power switch on the cabinet, not on the remote transmitter. To exit the service test mode press the power button on the receiver.

See table below for register information.

Register	Factory Value
FEATURE	04
BRIGHT	1F
PICTURE	1F
COLOR	1F
TINT	1F
SHARP	1F
OSD	1A
PIP COLOR	1F
PIP TINT	1F
VOL INC	04



CRT NECK ASSEMBLY



STEREO ADJUSTMENTS

NOTE: Adjustments made using a MTS TV / stereo generator connected to antenna terminals.

BASEBAND LEVEL

Select pilot, 1kHz audio frequency, and L+R modulating signal. Connect one channel of a dual trace oscilloscope to pin 17 of IC700 and the other channel to pin 18 of IC700. Connect both probe grounds to pin 31 of IC700. Set oscilloscope time div. to 1ms, volts to .2V and select the add A+B function. Adjust R236 for .7V p-p.

STEREO VCO

Select stereo mode on receiver. Select pilot, 1kHz audio frequency, and L+R modulating signal. Adjust R712 counterclockwise until stereo indicator turns off and then clockwise until stereo indicator just turns on.

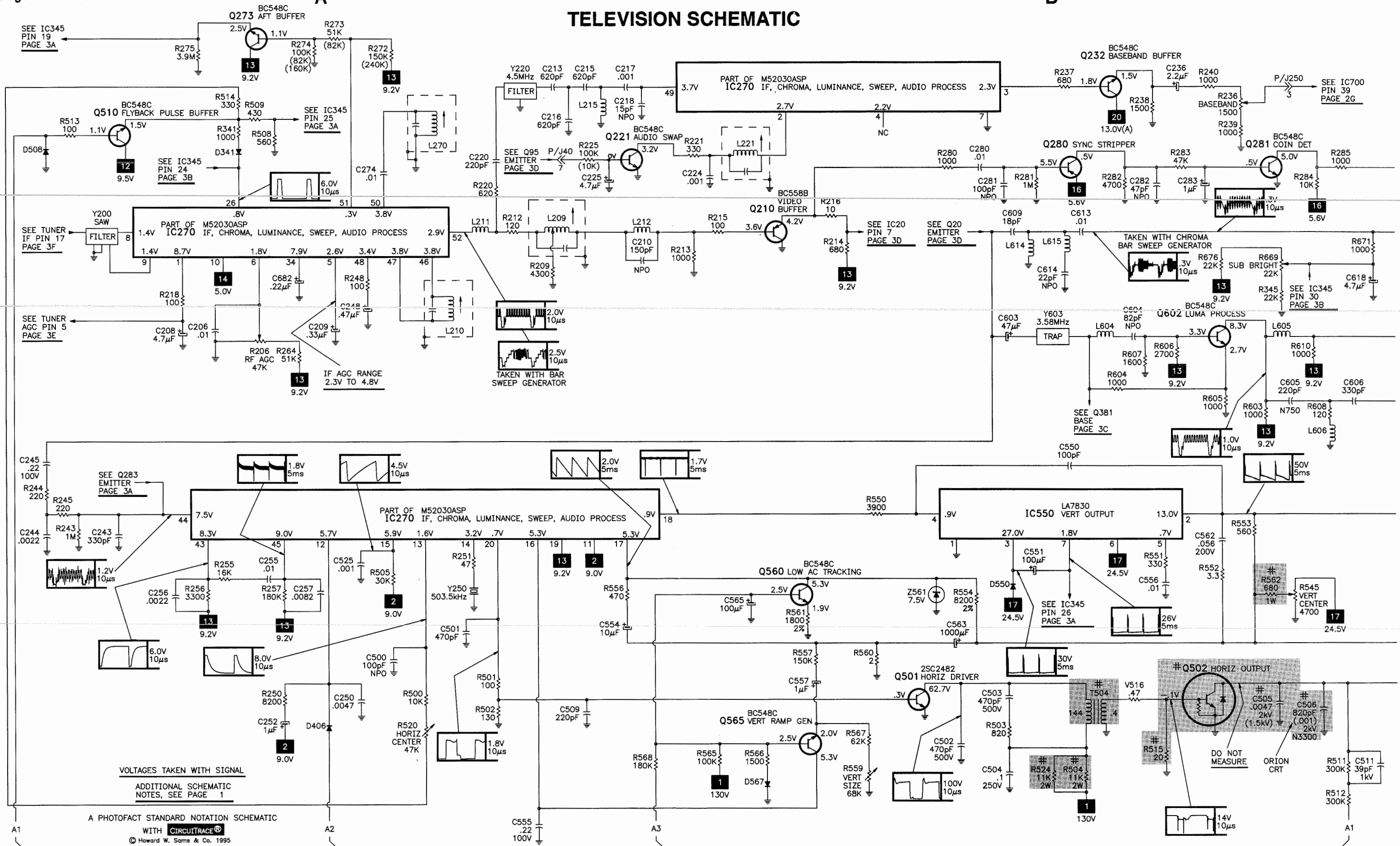
SAP FILTER

Select SAP mode on receiver. Select SAP, 1kHz audio frequency, and L-R modulating signal. Connect oscilloscope to pin 21 of IC700. Adjust R708 for maximum amplitude of waveform.

SEPARATION

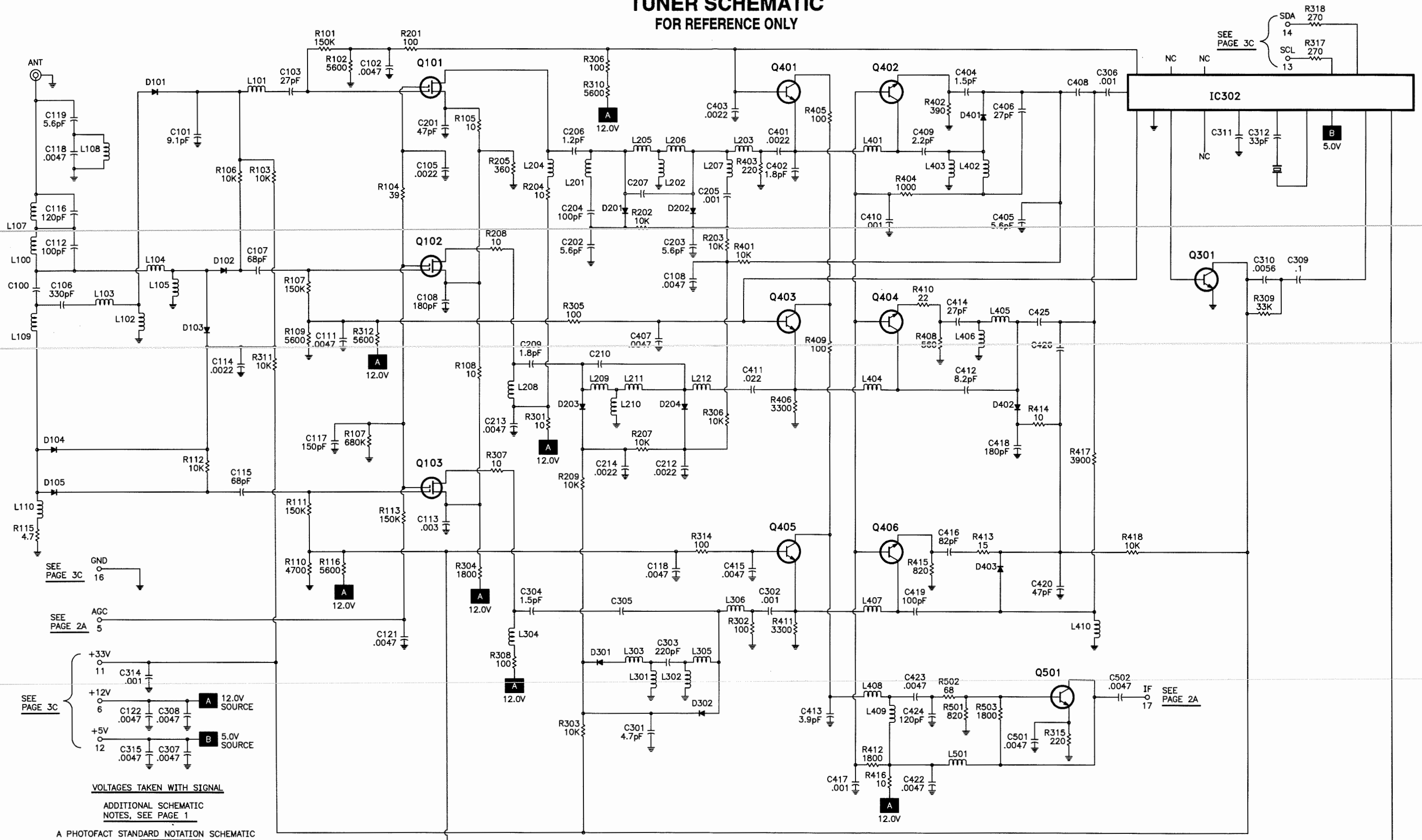
Select stereo mode on receiver. Select pilot, 300Hz audio frequency, and left modulating signal. Connect an oscilloscope to pin 17 of IC700 and adjust R718 for minimum amplitude of waveform. Set audio frequency to 8kHz and adjust R715 for minimum amplitude of waveform. Repeat until no further decrease in amplitude can be obtained.

VOLTAGES TAKEN WITH SIGNAL



TUNER SCHEMATIC

FOR REFERENCE ONLY



PARTS LIST continued

CONTROLS & RESISTORS			
Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
# R1	.3 5% 1/2W	-	-
	30 5% 1/2W	4835 116 57113	HW030
# R3	.3 5% 1/2W	-	-
	30 5% 1/2W	4835 116 57113	HW030
# R10, 11, 12	15K 5% 3W	4835 116 67018	3W315
# R20	10 5% 1/3W	4822 111 30508	-
# R30	51 5% 1/2W	4835 116 67086	HW051
# R31	4.7M 5% 1/2W	4835 116 57009	HW547
R40	1000 Video Level	4835 100 97031	-
# R49	82 5% 1/4W	4835 111 37126	HW082
R60	470 Audio Level Right	4835 100 97038	-
# R66	100 5% 1/10W	4835 111 37001	-
R80	470 Audio Level Left	4835 100 97038	-
# R86	100 5% 1/4W	4835 111 37021	QW110
R206	47K RF AGC	4835 100 17017	-
# R231	2.2 5% 3W	4835 116 67069	3W2D2
R236	1500 Baseband	4835 100 17043	-
R301	75K 2% 1/8W	4835 110 67226	EW375
R302	3300 2% 1/8W	4835 110 67223	EW233
R303	6200 2% 1/8W	4835 110 67093	EW262
R304	10K 2% 1/8W	-	EW310
	11K 2% 1/8W	4835 110 67217	EW311
# R305	22 5% 1/4W	-	QW022
	10 5% 1/4W	4835 116 57362	QW010
R306	22K 2% 1/8W	-	EW322
	18K 2% 1/8W	4835 110 67221	EW318
R307	30K 2% 1/8W	4835 110 67117	EW330
R309	10K 1% 1/8W	4835 116 57481	-
R310	43K 2% 1/8W	4835 110 67224	EW343
# R359	33 5% 1/3W	4835 116 57159	-
R400	11 Cold PTC	4835 116 47001	-
# R401	4.7M 5% 1/2W	4835 116 57009	HW547
# R403	1.5 10% 10W Wirewound	4835 112 37024	10W1D5
# R411	100 5% 1/3W	4835 116 87002	-
# R417	6.8 5% 1/4W	4835 116 57559	QW6D8
# R419	1 5% 1/3W	4822 111 30483	-
# R420	.51 5% 1/2W	4835 116 67001	HWD51
# R421, 45	1 5% 1/3W	4822 111 30483	-
# R448	100 5% 30W Wirewound	4835 112 37019	-
# R459	100 5% 2W	4835 116 57132	2W110
# R460	2.2 5% 1/3W	4822 111 30492	-
# R464	68 5% 1W	4835 116 57279	1W068
# R465	24 5% 1/4W	4835 116 57493	QW024
# R466	47 5% 1/3W	4835 116 57069	-
# R468	1 5% 1/3W	4822 111 30483	-
# R469	8.2 5% 1/3W	4822 111 30506	-
# R470	4.3 5% 1/8W	4835 116 57497	EW4D3
# R475	.51 5% 1/2W	4835 116 67001	HWD51
# R504	11K 5% 2W	4835 116 67167	2W311
# R506	18 5% 2W	4835 116 67017	2W018
# R510	39K 5% 1/4W	4835 116 57475	QW339
# R515	20 5% 1/3W	4835 116 57065	-
R520	47K Horizontal Centering	4835 100 17017	-
# R524	11K 5% 2W	4835 116 67167	2W311
# R530	1 5% 1/3W	4822 111 30483	-
# R533	5490 1% 1/4W	4835 116 57577	-
# R534	24K 1% 1/4W	4835 116 57273	-
# R535	7500 5% 1/4W	4835 116 57438	QW275
# R536	5600 5% 1/4W	4835 116 57434	QW256
# R537	3900 5% 1/4W	4835 116 57425	QW239
R545	4700 Vertical Centering	4835 100 17054	-
# For SAFETY use only equivalent replacement part.			

CONTROLS & RESISTORS continued			
Item No.	Function/Rating	Mfr. Part No.	NTE Part No.
R554	8200 2% 1/8W	4835 110 67232	QW282
R559	68K Vertical Size	4835 100 17052	-
R561	1800 2% 1/8W	4835 110 67227	EW218
# R562	680 5% 1W	4835 116 67144	1W168
R642	2200 Blue Drive	4835 100 17021	-
R643	2200 Green Drive	4835 100 17021	-
R648	4700 Blue Cutoff	4835 100 17022	-
R649	4700 Green Cutoff	4835 100 17022	-
R650	4700 Red Cutoff	4835 100 17022	-
R669	22K Sub Brightness	4835 100 17045	-
# R704	75 5% 1/2W	4835 116 57371	HW075
R708	10K SAP/LPF	4835 100 97032	-
R709	750K 1% 1/8W	4835 111 37362	-
R710, 11	47.5K 1% 1/8W	4835 111 37359	-
R712	22K VCO	4835 100 97041	-
R715	2200 3kHz	4835 101 37005	-
R717	43K 2% 1/10W	4835 111 37344	-
R718	4700 300Hz	4835 100 97039	-
# R740	10 5% 1/3W	4822 111 30508	-
# R760	6.8 5% 3W	4835 116 67099	3W6D9
RA2	22K 5% 1/4W X 6 Network	4835 111 97038	-
# For SAFETY use only equivalent replacement part.			

COILS & TRANSFORMERS			
Item No.	Function/Rating	Mfr. Part No.	
# DY1	Yoke 90° Horiz 3.2mH Vert 29mH	4835 150 17023	
L1	100µH	4835 157 57141	
# L30	-	4835 148 27042	
L209	4.5MHz	4835 157 57113	
L210	45.75MHz	4835 157 57485	
L211	2.2µH	4835 157 67005	
L212	4.7µH	4835 157 57059	
L215	3.9µH	4835 157 67007	
L221	4.5MHz	4835 157 57113	
L270	45.8MHz	4835 157 57608	
L315, 22	2.7µH	4835 157 67006	
L341	1.8µH	4835 157 67033	
L348	2.7µH	4835 157 67006	
L351, 52, 53	1.8µH	4835 157 67033	
L357	8.2µH	4835 150 57068	
L382	47µH	4835 157 67013	
L400	Line Filter	4835 157 57077	
L417, 18	2.7µH	4835 157 67006	
L499	Degaussing	4835 157 97059	
L502	Suppresion	4835 152 27047	
L604	27µH	4835 157 67019	
L605	22µH	4835 157 67018	
L606	33µH	4835 157 67025	
L614	15µH	4835 157 57057	
L615	47µH	4835 150 57045	
L630	.47µH	4835 157 57947	
# T501 (1)	Horizontal Output	4835 140 67112	
# T504	Horizontal Drive	4835 142 47021	
# For SAFETY use only equivalent replacement part.			
(1) Focus and screen controls are part of T501.			

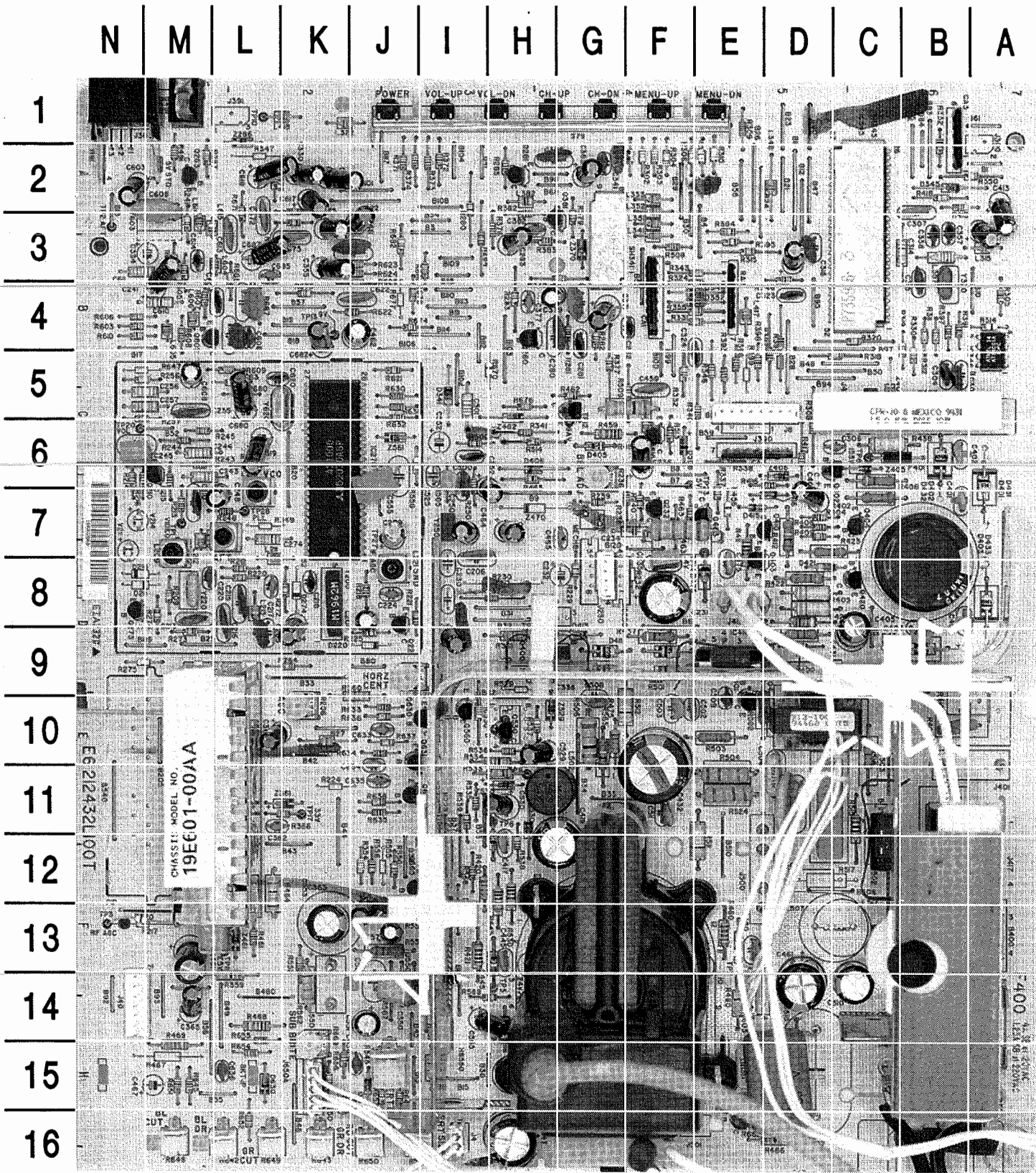
Important Parts Information			
<ul style="list-style-type: none">The parts listed here are those not usually available from a well-stocked supply cabinet or bin.Where items may be replaced with equivalent parts, several alternates are shown from participating vendors.On the parts lists, safety items are marked with a # to remind you that only exact replacements are recommended for these items.When ordering parts, state the model number, part number, and description.			
Obtaining Parts			
Many of these parts are available from your local Sams authorized distributor or the manufacturer of the equipment. Call Sams for the name of your nearest distributor: 800-428-7267 Or consult the Sams <i>Annual Index</i> for the address of the original equipment manufacturer.			
Participating Vendors			
Information on test equipment and replacement parts is listed in these pages for the following participating vendors. Consult the Sams <i>Annual Index</i> for their current address. <table><tr><td><ul style="list-style-type: none">Custom Components Corporation (Chek-A-Color)NTE Electronics, Inc. (NTE)Philips ECG Company (ECG)</td><td><ul style="list-style-type: none">PTS Electronics Corporation (PTS)Sencore, Inc.Thomson Consumer Electronics, Inc. (SK, TCE)</td></tr></table>		<ul style="list-style-type: none">Custom Components Corporation (Chek-A-Color)NTE Electronics, Inc. (NTE)Philips ECG Company (ECG)	<ul style="list-style-type: none">PTS Electronics Corporation (PTS)Sencore, Inc.Thomson Consumer Electronics, Inc. (SK, TCE)
<ul style="list-style-type: none">Custom Components Corporation (Chek-A-Color)NTE Electronics, Inc. (NTE)Philips ECG Company (ECG)	<ul style="list-style-type: none">PTS Electronics Corporation (PTS)Sencore, Inc.Thomson Consumer Electronics, Inc. (SK, TCE)		

TEST EQUIPMENT			
Test equipment listed by participating manufacturer illustrates typical or equivalent equipment used by Sams engineers to obtain measurements. This equipment is compatible with most types used by field service technicians.			
Equipment	Sencore No.	Equipment	Sencore No.
Oscilloscope	SC3100	Isolation Transformer	PR57
Generators		Capacitance Analyzer	LC101, LC102
RGB	CM2000	CRT Analyzer	CR70
Multiburst Signal	VG91	AC Leakage Tester	PR57
Color Bar	VG91	Inductance Analyzer	LC101, LC102
TV Stereo	VG91	Flyback Yoke Tester	TVA92
Digital VOM	SC3100	TV Stereo Power Monitor	SR68, PA81
Frequency Meter	SC3100	Field Strength Meter	SL750
Hi-Voltage Probe	HP200	Transistor Tester	TF46
Accessory Probes	TP212	Video Analyzer	VG91, TVA92

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MODEL CT1922C121 (CHASSIS 19E601-00AA)

MAIN BOARD



A HOWARD W. SAMS GRIDTRACE™ PHOTO

MAIN BOARD, GRIDTRACE LOCATION GUIDE

C204	K-9	C404	B-8	C635	J-11	J603	E-14	R215	M-6	R350	A-2	R469	M-15	R633	J-10
C205	L-9	C405	B-8	C636	L-15	J650	K-15	R216	N-6	R352	B-2	R470	F-6	R634	J-10
C206	I-7	C406	D-7	C637	K-15	K400	B-12	R218	J-8	R355	E-4	R475	G-10	R635	J-11
C208	J-8	C413	A-2	C638	J-15	L209	M-7	R220	L-8	R359	L-14	R480	E-14	R636	J-10
C209	J-7	C415	A-3	C663	E-15	L210	L-7	R221	J-8	R360	J-10	R491	M-2	R637	J-10
C210	M-7	C417	H-12	C668	J-3	L211	L-8	R225	J-9	R361	H-9	R500	I-6	R638	J-11
C213	M-8	C419	G-12	C672	L-3	L212	M-7	R229	G-8	R366	K-11	R501	F-9	R642	L-16
C215	L-8	C431	C-8	C674	J-3	L215	L-8	R231	F-7	R371	J-2	R502	D-10	R643	K-16
C216	L-8	C432	F-11	C675	K-3	L221	J-8	R236	G-6	R372	I-2	R503	E-10	R645	M-15
C217	L-8	C445	H-13	C680	L-5	L270	L-7	R237	H-8	R373	I-2	R504	E-11	R646	J-15
C218	K-8	C447	H-16	C682	K-4	L315	A-3	R238	F-7	R374	J-2	R505	I-6	R648	M-16
C220	M-8	C459	F-5	C685	L-3	L322	K-1	R239	G-7	R375	G-3	R506	G-10	R649	L-16
C224	J-8	C460	E-13	C687	L-3	L341	F-3	R240	F-7	R376	H-3	R508	F-3	R650	J-16
C225	I-9	C461	D-14	CA1	F-4	L348	D-2	R241	M-3	R377	G-5	R509	F-5	R651	M-15
C231	F-8	C462	J-4	CA3	B-2	L351	F-3	R243	M-6	R379	G-3	R510	D-15	R652	L-16
C235	F-8	C463	L-4	CA4	D-6	L352	F-2	R244	M-6	R382	H-2	R511	E-12	R653	J-15
C236	F-6	C464	I-7	D341	I-5	L353	F-2	R245	M-6	R383	H-3	R512	F-10	R654	L-15
C241	M-3	C465	G-7	D345	B-2	L357	B-3	R248	L-7	R390	D-4	R513	F-6	R655	L-14
C243	M-6	C470	H-7	D346	E-4	L382	H-2	R250	I-6	R391	B-4	R514	H-6	R656	K-15
C244	M-6	C475	E-8	D352	E-4	L400	A-13	R251	J-6	R392	D-5	R515	C-11	R662	D-16
C245	N-6	C500	I-6	D401	A-6	L417	E-4	R255	L-6	R393	E-5	R520	J-9	R663	D-16
C248	L-7	C501	I-5	D402	B-6	L418	K-1	R256	N-5	R394	E-3	R524	E-11	R669	K-15
C250	I-6	C502	E-10	D403	A-8	L502	H-11	R257	N-5	R395	E-3	R530	H-12	R671	L-2
C252	H-7	C503	F-10	D404	B-9	L604	L-3	R264	K-9	R396	E-5	R533	H-11	R672	K-3
C255	M-5	C504	D-11	D405	G-6	L605	M-4	R272	K-8	R397	B-4	R534	H-11	R673	K-4
C256	N-5	C505	D-11	D406	H-6	L606	M-4	R273	M-9	R398	E-5	R535	I-11	R674	J-4
C257	N-5	C506	D-11	D409	H-12	L614	M-3	R274	M-8	R400	B-10	R536	H-10	R675	K-2
C274	L-7	C507	D-15	D410	F-9	L615	M-3	R275	N-9	R401	B-15	R537	H-10	R676	H-5
C275	G-2	C508	G-10	D411	G-9	L630	K-10	R280	I-2	R402	C-7	R538	H-12	R678	J-4
C280	G-4	C509	E-10	D413	G-9	N401	E-15	R281	G-4	R403	B-5	R539	I-11	R679	L-2
C281	G-4	C510	C-14	D415	E-7	Q210	M-6	R282	G-4	R404	D-7	R545	J-15	R680	L-5
C282	F-4	C511	F-11	D416	D-7	Q221	J-8	R283	H-4	R405	D-8	R550	J-12	R681	I-3
C283	H-3	C525	I-6	D421	D-8	Q232	F-7	R284	I-3	R406	C-6	R551	I-14	R682	J-3
C301	D-3	C529	H-10	D445	H-13	Q273	N-8	R285	H-2	R408	D-7	R552	K-13	R683	L-5
C304	B-5	C530	H-11	D460	E-13	Q280	H-4	R287	M-2	R409	D-7	R553	J-13	R687	L-4
C306	C-6	C550	J-14	D475	E-8	Q281	H-2	R301	F-2	R411	E-7	R554	J-12	R688	L-3
C307	B-2	C551	J-14	D491	M-1	Q283	M-2	R302	F-2	R412	D-7	R556	J-12	RA2	E-3
C308	B-5	C554	J-13	D508	F-6	Q381	H-3	R303	F-2	R413	B-2	R557	J-13	S79	G-1
C314	B-3	C555	J-6	D510	D-15	Q400	G-9	R304	F-2	R416	D-6	R559	J-16	T501	G-14
C315	B-3	C556	I-15	D530	H-11	Q402	C-6	R305	A-4	R417	D-6	R560	J-13	T504	D-10
C316	D-3	C557	J-13	D550	J-14	Q403	E-8	R306	F-2	R418	B-2	R561	I-10	V516	C-10
C323	D-4	C562	J-14	D567	I-13	Q404	C-7	R307	E-2	R419	G-6	R562	K-14	Y200	K-8
C324	E-5	C563	K-13	D629	J-15	Q410	D-7	R308	D-6	R420	I-12	R565	G-10	Y220	M-8
C330	K-2	C565	I-14	D630	L-15	Q420	C-8	R309	E-1	R421	I-13	R566	I-12	Y250	I-7
C336	H-9	C603	N-2	D661	D-15	Q461	L-13	R310	E-2	R422	D-8	R567	J-14	Y320	B-4
C355	K-13	C604	L-4	F400	A-14	Q462	G-5	R311	B-4	R423	D-7	R568	H-14	Y603	M-3
C357	B-3	C605	L-4	F401	C-6	Q463	E-7	R312	B-4	R424	D-8	R569	H-14	Y620	L-5
C358	B-3	C606	L-4	IC270	J-7	Q501	E-10	R315	E-3	R431	D-9	R603	M-4	Z286	L-1
C360	M-13	C608	M-5	IC341	G-3	Q502	C-12	R318	C-5	R432	D-8	R604	M-3	Z361	K-11
C361	L-10	C609	N-2	IC345	C-4	Q510	F-6	R319	B-4	R436	D-9	R605	M-3	Z370	G-3
C362	L-11	C610	M-4	IC346	A-5	Q530	H-10	R320	C-4	R437	F-9	R606	N-4	Z402	C-5
C365	M-14	C611	N-3	IC410	E-9	Q560	I-10	R324	E-4	R438	C-6	R607	M-4	Z405	C-6
C370	G-4	C613	L-3	IC550	I-12	Q565	J-12	R330	B-5	R445	H-12	R608	M-4	Z406	D-6
C371	G-4	C614	M-3	IR91	N-1	Q602	M-4	R331	E-4	R448	B-13	R609	L-5	Z461	L-13
C377	H-4	C616	J-2	J4	I-16	Q630	I-10	R332	F-5	R459	F-5	R610	N-4	Z462	H-5
C379	H-4	C617	K-2	J8	D-5	Q631	J-10	R337	E-7	R460	E-13	R621	J-5	Z463	F-7
C382	H-3	C618	L-2	J40	N-14	Q632	J-11	R338	E-6	R461	L-13	R622	J-4	Z529	H-10
C383	G-2	C619	L-6	J250	G-8	Q661	E-16	R340	E-5	R462	G-5	R623	J-3	Z530	H-11
C385	H-2	C620	L-5	J401	B-10	R206	K-10	R341	H-6	R463	F-7	R624	J-3	Z561	J-6
C400	B-15	C621	K-3	J410	E-8	R209	M-8	R343	E-3	R464	L-12	R625	J-4		
C401	B-7	C622	J-4	J500	D-11	R212	L-8	R345	K-15	R465	H-6	R630	J-5		
C402	B-6	C633	J-10	J501	F-16	R213	M-7	R346	E-5	R466	D-16	R631	J-5		
C403	B-8	C634	J-10	J550	K-14	R214	N-6	R348	D-3	R468	L-14	R632	J-5		

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MODEL CT1922C121 (CHASSIS 19E601-00AA)

PARTS LIST


SEMICONDUCTORS					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
D30	-	4835 130 37052	NTE580	ECG580	SK5036
D41, 61, 81	-	4835 130 37066	-	-	-
D341, 45	-	4835 130 37048	NTE519	ECG519	SK3100
D346, 52	-	4835 130 37048	NTE519	ECG519	SK3100
D401 Thru					
D404	1N5062	4822 130 41275	NTE125	ECG125	SK3081
D405	-	4835 130 37094	NTE580	ECG580	SK5036
D406	-	4835 130 37048	NTE519	ECG519	SK3100
D409	-	4835 130 37094	NTE580	ECG580	SK5036
D410, 11	1N5062	4822 130 41275	NTE125	ECG125	SK3081
D413, 15	-	4835 130 37048	NTE519	ECG519	SK3100
D416, 21	-	4835 130 37048	NTE519	ECG519	SK3100
D445, 60	-	4835 130 37094	NTE580	ECG580	SK5036
D475	-	4835 130 37052	NTE580	ECG580	SK5036
D491	-	4835 130 87001	-	-	-
D508	-	4835 130 37048	NTE519	ECG519	SK3100
D510	-	4835 130 37052	NTE580	ECG580	SK5036
# D536	-	4835 130 37048	NTE519	ECG519	SK3100
D550	-	4835 130 37094	NTE580	ECG580	SK5036
D567	-	4835 130 37048	NTE519	ECG519	SK3100
D629	-	4835 130 37048	NTE519	ECG519	SK3100
D630	-	4835 130 37058	NTE587	ECG587	SK9937
D661	-	4835 130 37053	NTE552	ECG552	SK9000
IC20	LA7016	4835 209 87074	NTE1781	ECG1781	SK9746
# IC41	TLP651	4835 130 97058	-	-	-
# IC61, 81	TLP631	4835 130 47903	NTE3041	ECG3041	SK2041
IC270	M52030ASP	4835 209 88106	-	-	-
IC341	LC7456A	4835 209 88189	-	-	-
IC345	-	4835 209 88187	-	-	-
IC346	AT24C01A	4835 209 88108	-	-	-
IC410	STR30130	4835 209 47056	NTE1777	ECG1777	SK9870
IC550	LA7830	4835 209 87069	NTE1773	ECG1773	SK9752
IC700	CXA1124BS	4835 209 88002	-	-	-
IC740	TDA8198	4835 209 87982	-	-	-
IC760	TDA7053	4835 209 87808	-	-	-
Q1, 2, 3	-	4835 130 47059	NTE399	ECG399	SK9352
Q20	-	4835 130 47112	NTE2407	ECG2407	-
Q41, 42	-	4835 130 47094	-	-	-
Q43	-	4835 130 47751	NTE2406	ECG2406	-
Q61, 62, 63	-	4835 130 47094	-	-	-
Q81, 82, 83	-	4835 130 47094	-	-	-
Q95	-	4835 130 47094	-	-	-
Q210	BC558B	4835 130 47126	NTE159*	ECG159*	SK3466*
Q221, 32, 73	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q280	-	4835 130 47126	NTE159*	ECG159*	SK3466*
Q281, 83	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q381	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q400	TIP47	4835 130 47072	NTE198	ECG198	SK3220
Q402	-	4835 130 47059	NTE399	ECG399	SK9352
Q403	-	4835 130 47892	-	-	-
Q404	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q410	-	4835 130 47051	NTE123AP	ECG123AP	SK3854
Q420	-	4835 130 47059	NTE399	ECG399	SK9352
Q461	-	4835 130 47051	NTE123AP	ECG123AP	SK3854
Q462	-	4835 130 47059	NTE399	ECG399	SK9352
Q463	-	4835 130 47051	NTE123AP	ECG123AP	SK3854
Q501	2SC2482	4835 130 47073	NTE399	ECG399	SK9352
# Q502	-	4835 130 67001	-	-	-
Q510	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
# For SAFETY use only equivalent replacement part.					
* Lead configuration may vary from original.					

SEMICONDUCTORS continued					
(Select the replacement that gives the best results.)					
Item No.	Type No.	Mfr. Part No.	NTE Part No.	ECG Part No.	TCE Part No.
# Q530	-	4835 130 47126	NTE159*	ECG159*	SK3466*
Q560, 65	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q602, 30	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q631, 32	BC548C	4835 130 47064	NTE123AP*	ECG123AP*	SK3854*
Q661	-	4835 130 47126	NTE159*	ECG159*	SK3466*
Q703	-	4835 130 47086	NTE2406	ECG2406	SK10097
Z30	-	4835 130 37423	NTE142A	ECG142A	-
Z286	-	4835 130 37121	NTE5013T1	ECG5013T1	SK9969
Z361	-	4835 130 37502	NTE147A	ECG147A	-
Z370	-	4835 130 37119	-	-	-
Z402	-	4835 130 37003	-	-	-
Z405	-	4835 130 37501	NTE5075A	ECG5075A	-
Z406	-	4835 130 37121	NTE5013T1	ECG5013T1	SK9969
Z461	-	4835 130 37068	NTE5011T1	ECG5011T1	SK9968
Z462	-	4835 130 37203	NTE5019T1	ECG5019T1	-
Z463	-	4835 130 37121	NTE5013T1	ECG5013T1	SK9969
# Z529	-	4835 130 37016	-	-	-
# Z530	-	4835 130 37121	NTE5013T1	ECG5013T1	SK9969
Z561	-	4835 130 37777	-	-	-
Z700	-	4835 130 37778	-	-	-
# For SAFETY use only equivalent replacement part.					
* Lead configuration may vary from original.					

CAPACITORS & ELECTROLYTICS					
Item No.	Rating	Mfr. Part No.	Item No.	Rating	Mfr. Part No.
# C2	.01 630V	4835 121 47335	# C506	820pF 5% 2kV N3300	4835 122 57004
# C33	.0047 20% 250VAC	4835 122 97023		.001 5% 2kV	-
C210	150pF 5% 50V NPO	4835 122 47042	# C507	.36 200V	4835 121 47126
C218	15pF 5% 50V NPO	4835 122 47085		.51 200V	-
C281	100pF 5% 50V NPO	4835 122 47014	C511	39pF 5% 1kV	4835 122 47224
C282	47pF 5% 50V NPO	4835 122 47051	# C529	10µF 50V	4835 124 47499
C304, 08	100pF 5% 50V NPO	4835 122 47014	C604	82pF 5% 50V NPO	4835 122 47024
C323, 24	100pF 5% 50V NPO	4835 122 47014	C605	220pF 5% 50V N750	4835 122 47025
C357	39pF 5% 50V NPO	4835 122 47021	C614	22pF 5% 50V NPO	4835 122 47017
C358	27pF 5% 50V NPO	4835 122 47018	C620	39pF 5% 50V NPO	4835 122 47021
# C400	.22 250VAC	4835 122 97047	CA1	.01 X 7 Network	4835 122 97049
C500	100pF 5% 50V NPO	4835 122 47014	CA3	100pF X 4 Network	4835 122 97077
# C505	.0047 2kV	-	CA4	100pF X 6 Network	4835 122 97042
	.0047 1.5kV	4835 121 47026	# For SAFETY use only equivalent replacement part.		

MISCELLANEOUS			
Item No.	Description	Mfr. Part No.	Notes
# B400 (1)	Buss Wire	0046 012 60001	-
# B401 (1)	Buss Wire	0046 012 60001	-
# F400	Fuse	4835 253 97095	4Amp, 125VAC, Slow Blow
# F401	Fuse	4835 253 97031	2.5Amp
IR91	Receiver	4835 219 47267	Remote
J45	Jack	0018 220 40423	Assembly
K400	Relay	4835 277 27016	Degaussing
N401	Neon Bulb	4835 134 27001	-
# P1	Line Cord	4835 321 17006	AC, Polarized
S79	Switch	4835 276 57004	Assembly
SP1, 2	Speaker	4835 240 37002	3", 1W, 16 Ohms
# V1	CRT	4835 131 27087	A48AFN42X
	CRT	4835 131 27103	Orion
Y200	Filter	4835 153 97022	SAW
Y220	Filter	4835 158 97009	4.5MHz
Y250	Crystal	4835 157 57145	503.5kHz
Y320	Resonator	4835 157 57129	12MHz
Y603	Trap	4835 154 97025	3.58MHz
Y620	Crystal	4835 242 77022	3.58MHz
#	Antenna Isolator	4835 219 47242	-
#	CRT Socket	4835 265 97331	-
	Magnet	4835 150 27007	Purity/Convergence
	PC Board (2)	4835 219 57478	Audio/Video Jack Panel, 00AVJ129
	PC Board (2)	-	CRT, APT131
	PC Board (2)	-	Main, 00EME633-A003
	PC Board (2)	4835 219 57497	DBX / AVL Stereo, 00ASD031-A001
	Transmitter	4835 219 17554	Remote
#	Tuner (2)	4835 210 47058	UHF/VHF, UV936E
	Wedge	4835 535 27001	Yoke Positioning, 3 Used
# For SAFETY use only equivalent replacement part.			
(1) Used in some versions.			
(2) Contact PTS Electronics Corporation for replacement; order by manufacturer's part number.			

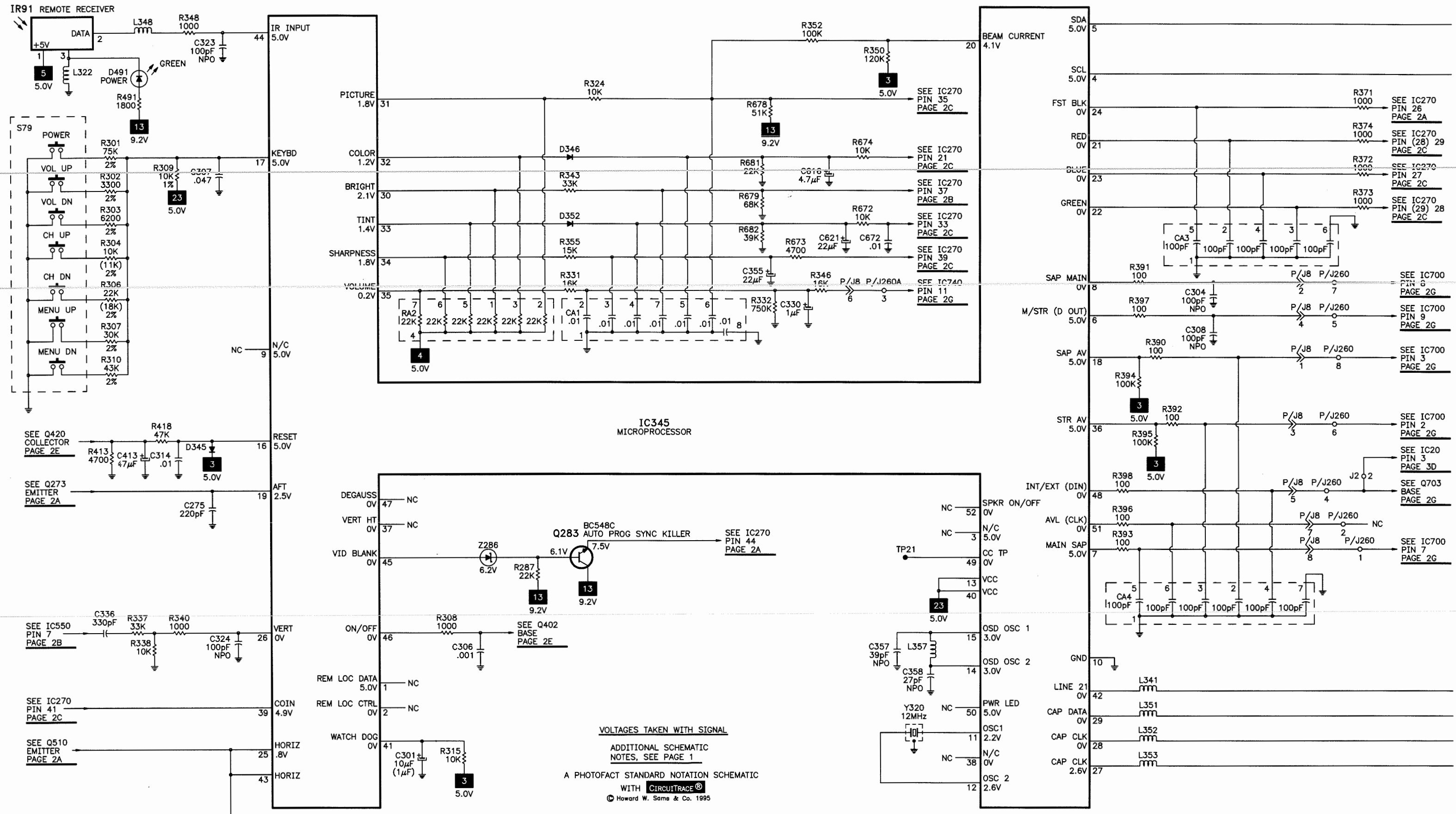
CABINET PARTS	
Item	Mfr. Part No.
Cabinet Front	4835 430 27108
Cabinet Rear	4835 432 97516
Lens, IR	4835 381 17006
Nameplate	4835 459 17498



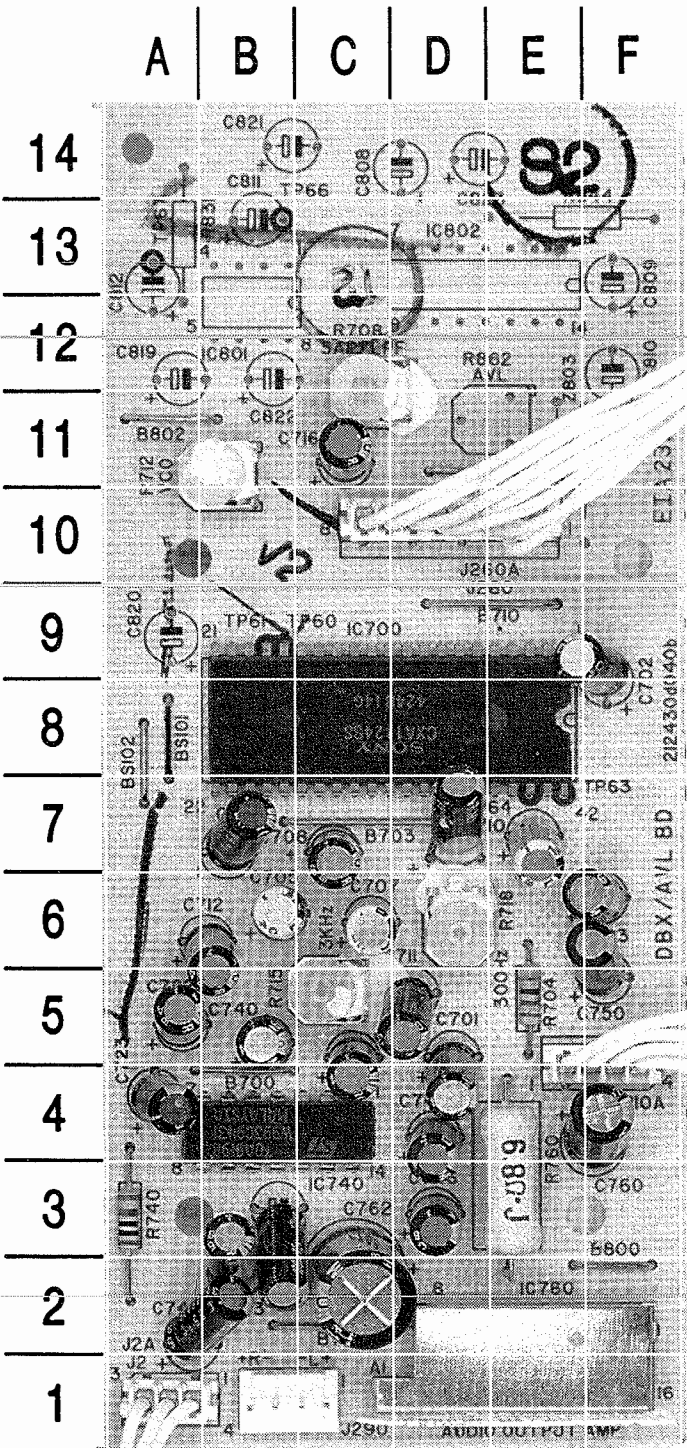
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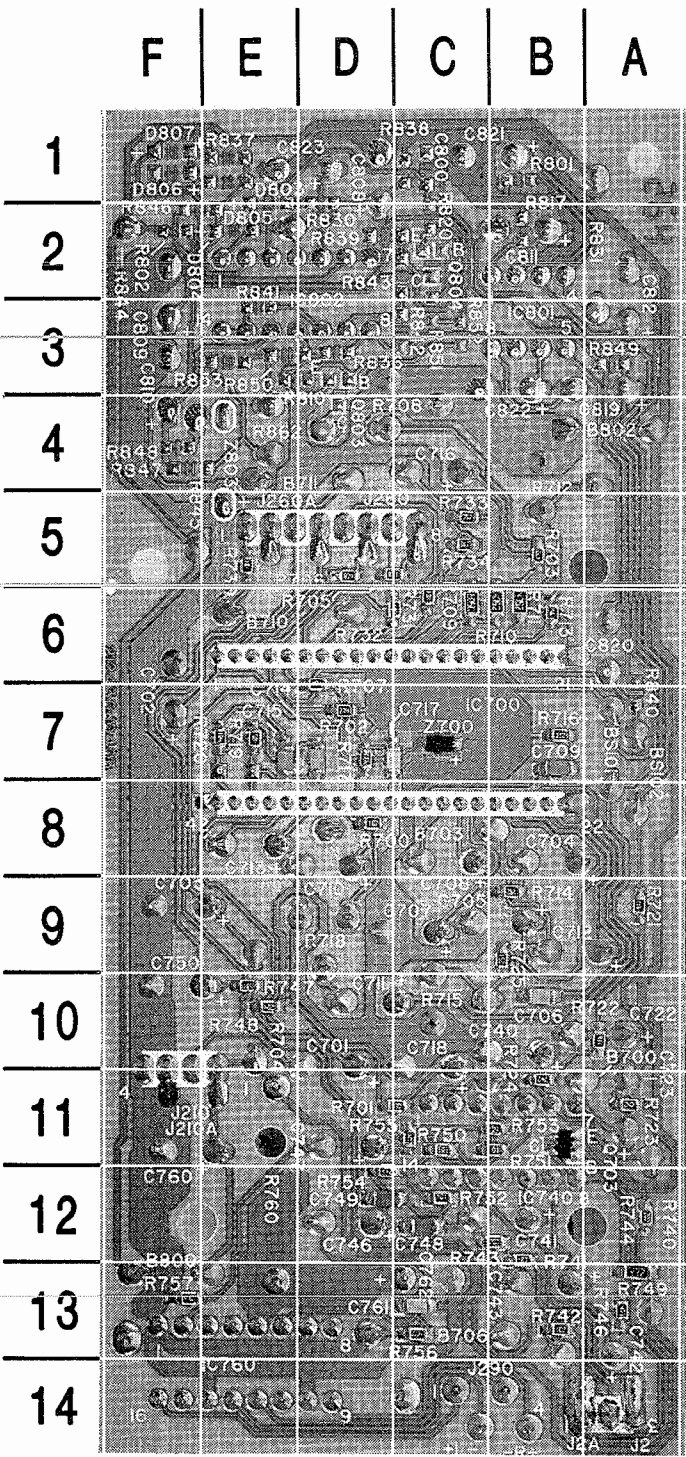


DBX / AVL STEREO BOARD, TOP VIEW



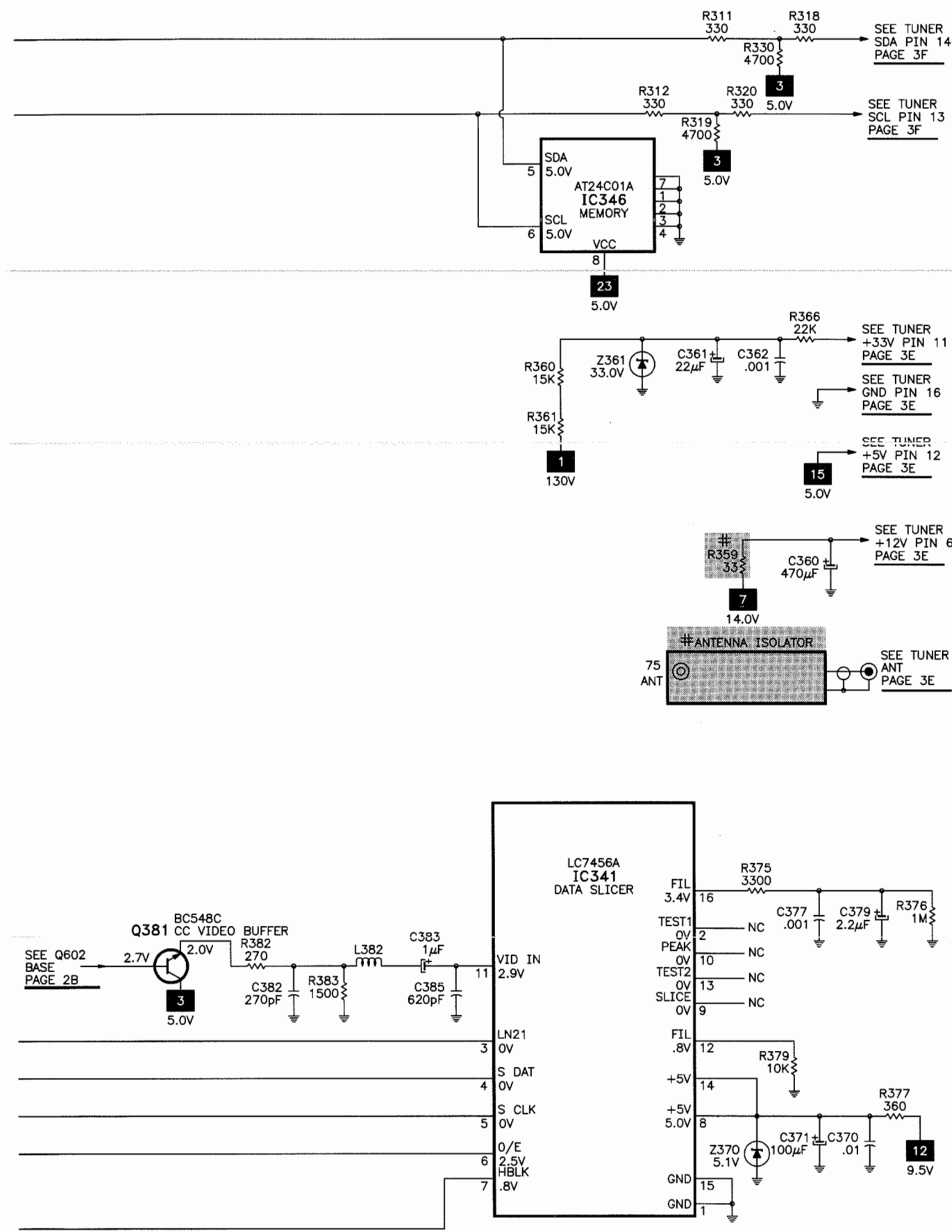
DBX / AVL STEREO BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE			
C701	D-4	C746	D-3
C702	F-9	C747	D-4
C703	F-6	C750	F-6
C704	B-7	C760	F-4
C705	B-6	C762	C-2
C707	C-6	IC700	E-9
C708	C-7	IC740	C-4
C710	D-7	IC760	F-2
C711	D-5	J2	A-1
C712	B-6	J210	E-4
C713	E-7	J260	E-10
C716	C-11	J290	C-1
C718	C-4	R704	E-5
C722	A-5	R708	C-12
C723	A-4	R712	B-11
C740	B-5	R715	C-5
C741	B-2	R718	D-6
C742	A-2	R740	A-3
C743	B-3	R760	E-3

DBX / AVL STEREO BOARD, BOTTOM VIEW

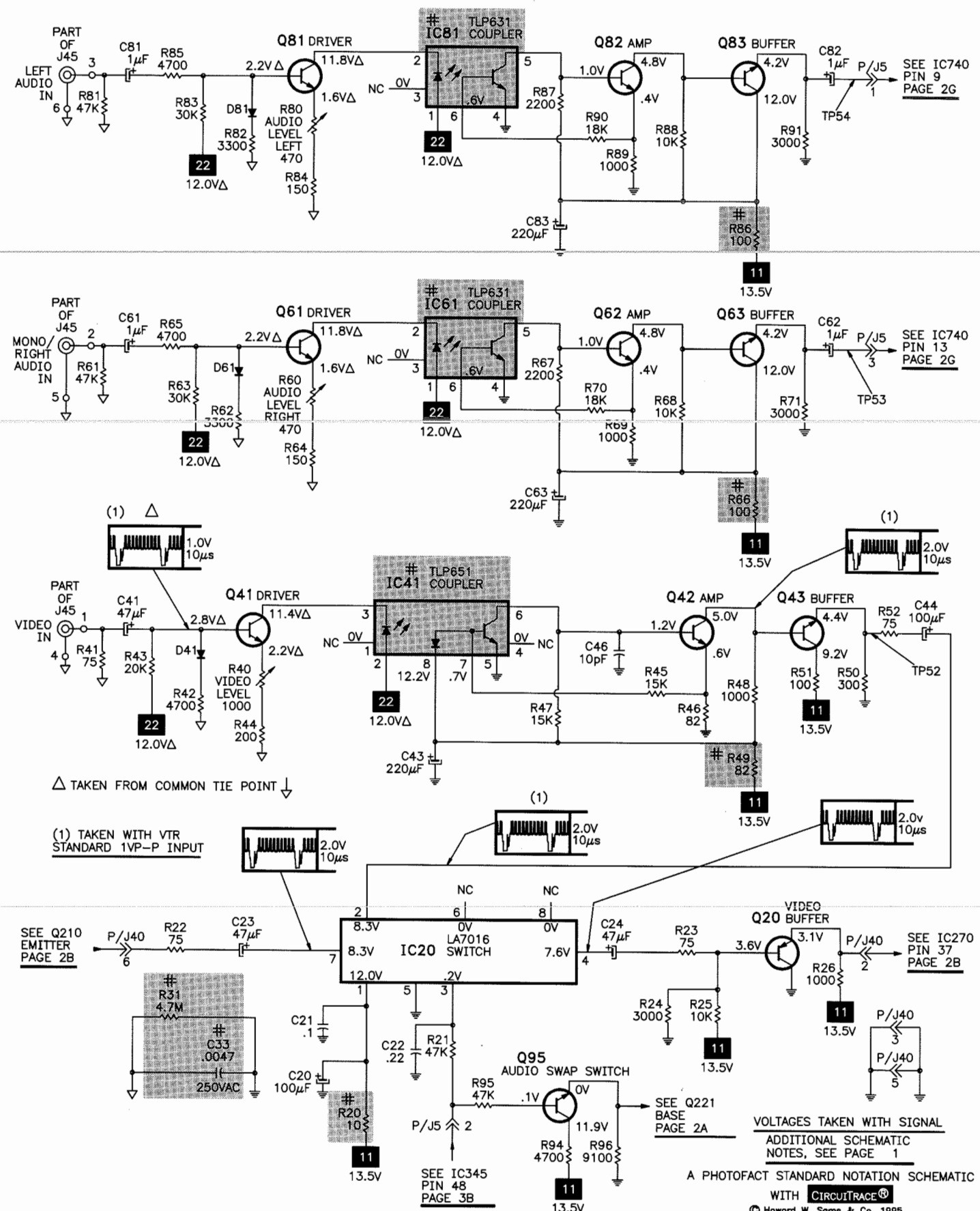


DBX / AVL STEREO BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE			
C706	B-10	R722	A-10
C709	B-7	R723	A-11
C714	D-7	R724	B-11
C715	E-7	R725	B-9
C717	C-7	R730	E-5
C748	C-12	R731	C-6
C749	D-12	R732	D-6
C761	C-13	R733	C-5
Q703	B-11	R734	C-5
R700	D-8	R741	B-12
R701	C-11	R742	B-13
R702	D-7	R743	B-12
R703	B-5	R744	A-12
R705	D-5	R746	A-13
R706	D-5	R747	E-10
R707	D-6	R748	E-10
R709	C-6	R749	A-13
R710	B-6	R750	C-11
R711	B-6	R751	B-11
R713	B-6	R752	C-12
R714	B-9	R753	B-11
R716	B-7	R754	D-12
R717	D-7	R755	C-11
R719	E-7	R756	C-13
R720	E-7	R757	F-13
R721	A-9	Z700	C-7

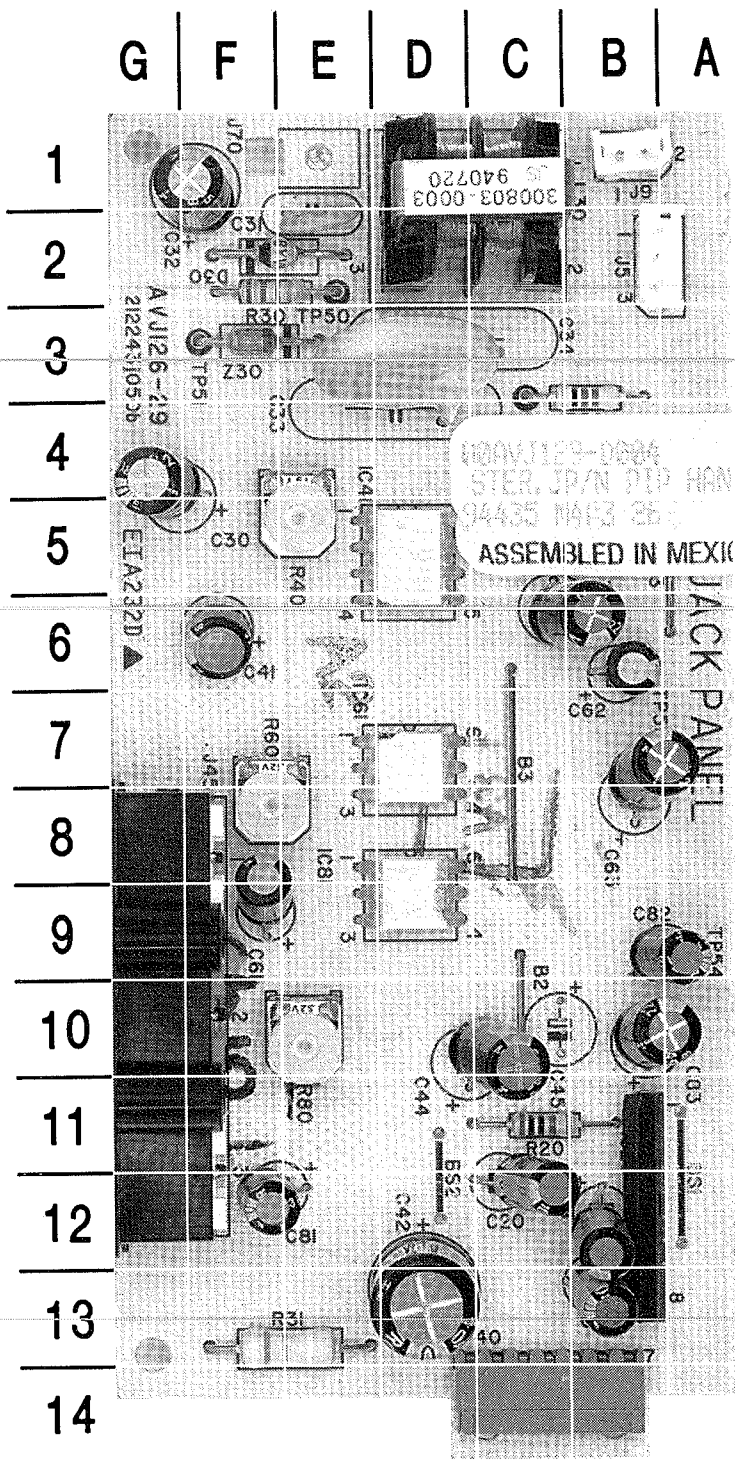
C
SYSTEM CONTROL SCHEMATIC continued



D
AUDIO / VIDEO SWITCHING SCHEMATIC

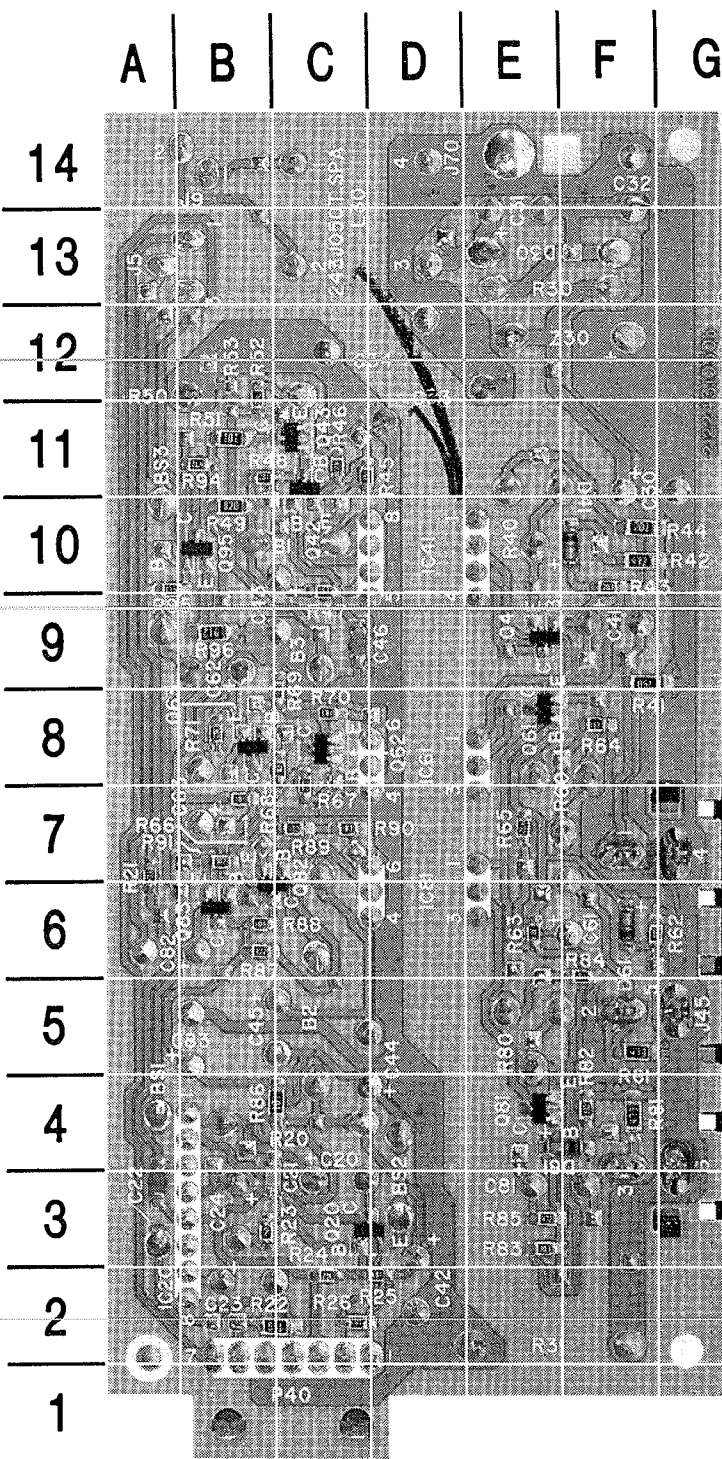


AUDIO / VIDEO JACK PANEL BOARD, TOP VIEW



AUDIO / VIDEO JACK PANEL BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE			
C20	C-12	IC41	E-5
C23	B-13	IC61	E-7
C24	B-12	IC81	E-8
C30	G-4	J5	A-2
C31	E-2	J9	B-1
C32	F-1	J45	G-8
C33	D-3	L30	C-1
C41	F-6	P40	C-14
C42	D-13	R20	C-11
C43	B-6	R30	F-2
C44	C-10	R31	E-13
C61	F-9	R40	E-5
C62	B-6	R50	B-3
C63	A-7	R60	F-8
C81	F-12	R80	E-10
C82	A-9	TP52	C-3
C83	A-10	TP53	B-6
D30	F-2	TP54	A-9
IC20	B-11	Z30	F-3

AUDIO / VIDEO JACK PANEL BOARD, BOTTOM VIEW



AUDIO / VIDEO JACK PANEL BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE			
C21	B-3	R48	B-11
C22	A-3	R49	B-10
C46	C-9	R51	B-11
D41	F-10	R52	B-12
D61	F-6	R61	F-5
D81	F-4	R62	F-6
Q20	C-3	R63	E-6
Q41	E-9	R64	F-8
Q42	C-11	R65	E-7
Q43	C-11	R66	B-7
Q61	E-8	R67	C-8
Q62	C-8	R68	C-8
Q63	B-8	R69	B-8
Q81	E-4	R70	B-8
Q82	B-6	R71	B-8
Q83	B-6	R81	F-4
Q95	B-10	R82	F-4
R21	A-7	R83	E-3
R22	B-2	R84	F-6
R23	B-3	R85	E-3
R24	C-2	R86	B-4
R25	C-2	R87	B-6
R26	C-2	R88	B-6
R41	F-9	R89	C-7
R42	F-10	R90	C-7
R43	F-10	R91	B-7
R44	F-10	R94	B-11
R45	C-11	R95	A-10
R46	C-11	R96	B-9
R47	C-9		