

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 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.

HIGH VOLTAGE SHUTDOWN TEST

Apply 120VAC to the receiver. Press the power button. Momentarily place a 22K ±110 ohms 1/4 Watt resistor across pins 2 and 3 of connector S1. The receiver should lose raster and sound and remain in that state. If the receiver does not lose raster and sound, the high voltage shutdown circuit requires repair. To resume normal operation, remove resistor across pins 2 and 3 of connector S1. Remove AC power and wait 15 seconds and test the receiver for normal operation.

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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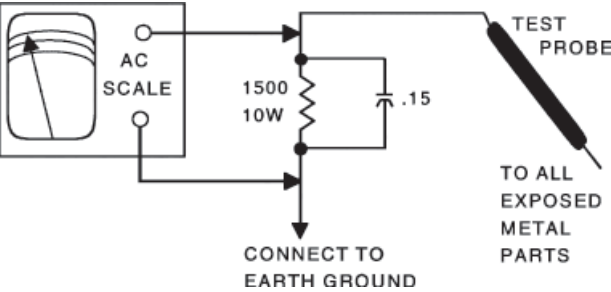
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



5334



PHOTOFACT[®]
SILVER

SET 5334

MODELS AV-N34F46/Y, AV-N34F46/Z

JVC

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Technical Service Data

JVC

Models AV-N34F46/Y, AV-N34F46/Z



Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

5334



JANUARY 2008 SET 5334

For a Complete List of Manuals,
Visit www.samswebsite.com

MISCELLANEOUS ADJUSTMENTS

NOTE: This receiver employs digital customer controls. Allow set to warm up for 30 minutes before adjusting. Unless otherwise indicated all adjustments were performed with the following functions set to:

Item	Value
VIDEO STATUS	STANDARD
TINT	0
COLOR	0
PICTURE	0
BRIGHT	0
DETAIL	0
COLOR TEMPERATURE	LOW
VSM	OFF
BASS	0
TREBLE	0
BALANCE	0
MTS	STEREO
BBE	OFF
HYPER SURROUND	OFF
ASPECT	4:3

Use appropriate input signals:

RF: Antenna Input
COMP: External Component Input
EXT: External S/Composite Input

B+ CHECK

Tune in a black and white picture. Connect a digital DC voltmeter to pin 5 of connector S1 and ground. With AC line set to 120VAC, voltage should read 134.5V ±2.0V.

HIGH VOLTAGE CHECK

Tune in a picture. Connect a High Voltage Probe to the CRT Anode. High voltage should read 28.7kV to 31.3kV.

SERVICE MENU

NOTE: The following charts show the initial setting values. Optimum condition of onset values may differ from initial setting. Do not change initial setting values that are not listed in adjustments. Initial value marked - - - indicates the value cannot be adjusted.

Select TV and VCR on remote. To enter the Service Menu, press the sleep timer button, set for 0 minutes, while the message “Sleep Timer 0 Min” is displayed on the screen, press the display and video status buttons together. The Service Menu is displayed as shown below. While in the Service Menu, use the menu up and down buttons to select and use the menu left and right buttons to adjust. Changed values are stored automatically. To exit the Service Menu, press the exit button.

Service Menu Chart

- | | |
|--|----------------------------------|
| 1. V/C (S) | 2. DEF (D) |
| 3. SOUND (A) | 4. OTHERS (F) (Do not adjust) |
| 5. 3L Y/C (LYC) (Do not adjust) | |
| 7. LOW LIGHT | 8. HIGH LIGHT |
| 9. VCO | |
| 11. I ² C BUS (Do not adjust) | 12. SYSTEM (SYS) (Do not adjust) |

VCO MODE (Do not adjust)

Do not adjust without RF signal applied. Tune in a picture. Select VCO Mode from the Service Menu. Set AFC to OFF and FINE to 0. Confirm color change of TOO HIGH to TOO LOW by adjusting T111 and ensure that SYNC: is YES. Adjust T111 until GOOD turns green and ensure that SYNC: is YES. Set AFC to ON. Exit Service Menu and check the picture quality.

VCO Mode Menu Chart

TOO HIGH	GOOD	TOO LOW
	SYNC:	YES
	AFC	ON
	FINE	±0

I²C BUS MODE (Do not adjust)

Select IC BUS Mode from the Service Menu.

I²C BUS Mode Menu Chart

I ² C Bus	ON
----------------------	----

V/C (S) MODE

Select V/C (S) Mode from the Service Menu.

Sub Bright / Sub Picture / Sub Color / Sub Tint

Tune in a picture. Adjust BRIGHT (S01) for best brightness. Adjust PICTURE (S02) for best contrast. Adjust COLOR (S03) for best color. Adjust TINT (S04) for best flesh tone.

DEF (D) MODE

Select DEF (D) Mode from the Service Menu.

Vertical (4:3)

Tune in a crosshatch pattern. Ensure that V PHASE (D05) is 0. Ensure V SIZE (D07) is 105. Adjust V SIZE (D07) for a slightly underscanned picture. Set S421 to center the picture. Adjust V SIZE (D07) for a 92% of vertical screen size. Bottom should be located at 85% to 95%. Adjust V LIN (D13) and V S CORR (D11) to correct vertical linearity.

Vertical (16:9)

Perform Vertical (4:3) Adjustment. Tune in a black and white signal and select 16:9 mode with the aspect button. Confirm that the picture is centered. Ensure V SIZE +/- (D08) is: -30 . Adjust V SIZE +/- (D08) and V LIN +/- (D14) for equal distance at top and bottom. The distance at top and bottom should be 50mm.

Horizontal / Side Pin Correction (4:3)

Perform Vertical (4:3) and Vertical (16:9) Adjustments. Tune in a crosshatch pattern. Adjust the H POSI (D03) to center the picture. Adjust H SIZE (D15) for a 90% of horizontal screen size. Adjust EW PARA (D23) to obtain straight vertical lines on both sides of pattern. Adjust EWCR TOP (D19) to obtain straight vertical lines at the two top corners. Adjust EWCR BTM (D21) to obtain straight vertical lines at the two bottom corners. If EW PARA (D23), EWCR TOP (D19), and EWCR BTM (D21) are adjusted, check the 16:9 mode also.

Horizontal / Side Pin Correction (16:9)

Perform Horizontal / Side Pin Correction (4:3) Adjustments. Tune in a crosshatch pattern and select 16:9 mode with the aspect button. Confirm 90% of horizontal screen size, adjust H SIZE +/- (D16) and H POSI +/- (D04) to correct. Confirm straightness of vertical lines, adjust EW PARA +/- (D24), EWCR T +/- (D20), and EWCR B +/- (D22) to correct.

LOW LIGHT MODE

Tune in a black and white signal. Select V/C (S) Mode from the Service Menu. Confirm that BRIGHT (S01) is 64, R CUT OFF (S11), G CUT OFF (S12), and B CUT OFF (S13) are 30. Select LOW LIGHT Mode from the Service Menu.

NOTE: While in the LOW LIGHT Mode Menu adjustments are performed using the following buttons on the remote:

- | | |
|----------------------------|----------------------------|
| 1 - Horizontal line. | 6 - Increase blue cutoff. |
| 2 - Restores full picture. | 7 - Decrease red cutoff. |
| 3 - Exit. | 8 - Decrease green cutoff. |
| 4 - Increase red cutoff. | 9 - Decrease blue cutoff. |
| 5 - Increase green cutoff. | |

White Balance (Low Light Adjustment)

Press 1 to display a horizontal line. Adjust the screen control for a dim line of one dominant color. Adjust the other two cutoffs for a dim white line. Press 2 for a full picture. Press 3 to exit.

HIGH LIGHT MODE

Tune in a black and white signal. Select V/C (S) Mode from the Service Menu. Confirm that RED DRIVE (S14) and BLUE DRIVE (S15) are 64. Select HIGH LIGHT Mode from the Service Menu.

NOTE: While in the High Light Mode Menu adjustments are performed using the following buttons on the remote:

- | | |
|-------------------------|--------------------------|
| 3 - Exit. | 6 - Increase blue drive. |
| 4 - Increase red drive. | 7 - Decrease red drive. |
| | 9 - Decrease blue drive. |

White Balance (High Light Adjustment)

Adjust the red and blue drives for best white balance. Press 3 to exit and check white balance at high and low brightness.

SOUND (A) MODE

Select SOUND (A) Mode from the Service Menu. Receive an RF signal.

MTS Input Level

Select IN LEVEL (A01) and set to 9.

MTS Separation

Ensure LOW SEP (A02) is 41 and HI SEP (A03) is 36. Connect an MTS TV stereo generator to the antenna input. Select pilot, 300Hz audio frequency, and left modulating signal on the generator. Connect an oscilloscope to pin 8 of IC621 and adjust to display one cycle of the 300Hz signal. Adjust LOW SEP (A02) for minimum amplitude of the waveform. Select 8kHz audio frequency on the generator. Connect oscilloscope to pin 2 of IC621. Adjust HI SEP (A03) for minimum amplitude of the waveform.

SERVICE MENU CHARTS

V/C (S) MODE

Select V/C (S) Mode from the Service Menu.

V/C (S) Mode Menu Chart

No.	Item	RF	RF	RF	Ext	Ext
		Standard	Standard	Theater	S/Comp	Component
		4:3	16:9	4:3	Standard	Standard
		Initial	Initial	Initial	Initial	Initial
		Value	Value	Value	Value	Value

All Models						
S01	BRIGHT	64	---	---	---	---
S02	PICTURE	55	---	---	---	---
S03	COLOR	48	---	---	---	48
S04	TINT	50	---	---	---	72
S05	DETAIL	35	---	---	40	40
S06	BRIGHT +/-	---	±0	+1	+4	-4
S07	PICT +/-	---	-8	-7	+3	+3
S08	COLOR +/-	---	±0	-3	-3	---
S09	TINT +/-	---	±0	-3	+14	---
S10	DETAIL +/-	---	---	±0	---	---

No.	Item	RF/Ext	RF/Ext	RF/Ext	RF/Ext
		S/Comp	S/Comp	S/Comp	S/Comp
		Standard	Standard	Theater	Theater
		Low	High	Low	High
		Initial	Initial	Initial	Initial
		Value	Value	Value	Value

All Models						
S11	R CUT OFF	30	---	---	---	---
S12	G CUT OFF	30	---	---	---	---
S13	B CUT OFF	30	---	---	---	---
S14	R DRIVE	64	---	---	---	---
S15	B DRIVE	64	---	---	---	---
S16	R CUT +/-	---	±0	±0	±0	±0
S17	G CUT +/-	---	±0	±0	±0	±0
S18	B CUT +/-	---	±0	±0	±0	±0
S19	R DRV +/-	---	+5	+13	+7	+7
S20	B DRV +/-	---	+6	-25	-9	-9
S21	NTSC MAT	3	3	1	1	1
S22	BLACK ST	2	---	2	---	---
S23	DCREST	1	---	1	---	---
S24	DCRSW	1	---	1	---	---

SERVICE MENU CHARTS continued

No.	Item	Ext	Ext	Ext	Ext
		Component	Component	Component	Component
		Standard	Standard	Theater	Theater
		Low	High	Low	High
		Initial	Initial	Initial	Initial
		Value	Value	Value	Value
All Models					
S11	R CUT OFF	---	---	---	---
S12	G CUT OFF	---	---	---	---
S13	B CUT OFF	---	---	---	---
S14	R DRIVE	---	---	---	---
S15	B DRIVE	---	---	---	---
S16	R CUT +/-	-5	---	---	---
S17	G CUT +/-	±0	---	---	---
S18	B CUT +/-	-6	---	---	---
S19	R DRV +/-	±0	---	---	---
S20	B DRV +/-	±0	---	---	---
S21	NTSC MAT	2	2	1	1
S22	BLACK ST	---	---	---	---
S23	DCREST	---	---	---	---
S24	DCRSW	---	---	---	---

No.	Item	RF	Ext	Ext
		Initial Value	S/Comp Initial Value	Component Initial Value
All Models				
S25	ASY SHRP	4	4	4
S26	BPF F0	0	0	---
S27	KILR OFF	0	0	---
S28	KILR SEN	1	1	---

No.	Item	Initial Value
All Models		
S29	RGB MUTE	0
S30	BLUE B	0
S31	VIDEO SW	3
S32	CMP ABCL	0
S33	OSD ABL	0
S34	OSD CONT	7
S35	SUB CONT	5
S36	ABL GAIN	0
S37	ABL PNT	3
S38	Y GAMMA	1
S39	Y MUTE	0
S40	SVM GAIN	3
S41	SVM PH	1
S42	WPL	0
S43	COL GMM	0
S44	V1 GAIN	4
S46	VMOFF DE	3
S47	APC CLK	1
S48	PIP ADJ	4

DEF (D) MODE

Select DEF (D) Mode from the Service Menu.

DEF (D) Mode Menu Chart				
No.	Item	RF	RF	Ext
		4:3 Initial Value	16:9 Initial Value	4:3 Initial Value
All Models				
D01	V FREQ	0	0	3
D02	AFC GAIN	0	0	2
D03	H POSI	21	---	21
D04	H POSI +/-	---	0	---
D05	V PHASE	0	---	0
D06	V PH +/-	---	0	---
D07	V SIZE	105	---	105
D08	V SIZE +/-	---	-30	---
D09	V CENTER	32	---	32
D10	V CENT +/-	---	0	---
D11	V S CORR	7	---	7
D12	V S CO +/-	---	0	---
D13	V LIN	10	---	10
D14	V LIN +/-	---	0	---
D15	H SIZE	38	---	38
D16	H SIZE +/-	---	0	---
D17	WVMT TOP	0	1	0
D18	WVMT BTM	0	1	0
D19	EWCR TOP	14	---	14
D20	EWCR T +/-	---	0	---
D21	EWCR BTM	13	---	13
D22	EWCR B +/-	---	0	---
D23	EW PARA	42	---	42
D24	EW PARA +/-	---	-15	---
D25	V EHT	0	---	0
D26	V EHT +/-	---	0	---
D27	H EHT	0	---	0
D28	H EHT +/-	---	0	---
D29	TRAPEZ	30	---	30
D30	TRAPEZ +/-	---	0	---
D31	V AGC	0	0	0
D32	BLANK SW	0	0	0
D33	VRMP BI	0	0	0

SOUND (A) MODE

Select SOUND (A) Mode from the Service Menu. Receive an RF signal.

Sound (A) Mode Menu Chart		
No.	Item	Initial Value
All Models		
A01	IN LEVEL	9
A02	LOW SEP	41
A03	HI SEP	36
A04	SAPC	0
A05	BBE BASS	-2
A06	BBE TRE	-2
A07	AHS MVE	±0
A08	AHS MCS	±0

OTHERS (F) MODE (Do not adjust)

Select OTHERS (F) Mode from the Service Menu.

OTHERS (F) Mode Menu Chart			
No.	Item (Not Displayed)	Model AV-N34F46/Y Initial Value	Model AV-N34F46/Z Initial Value
		Value	Value
F01	(OSD POSI)	39	39
F02	(OSD FREQ)	90	90
F03	(CCD POSI)	42	42
F04	(CCD FREQ)	91	91
F05	(CCD CONT)	4	4
F06	(PUR WBCK)	0	0
F07	(PUR CONT)	2	2
F08	(CCD PCHK)	1	1
F09	(VMOFF)	0	0
F10	(VNR CHK)	3	3
F11	(VCSN TM)	5	5
F12	(VM DAT A)	+8	+127
F13	(VM DAT B)	-8	+8
F14	(VM DAT C)	-20	-8
F15	(VM DAT D)	-32	-20
F16	(VM DAT E)	1	1
F17	(XDSID TM)	15	15
F18	(FM TRAP)	0	0

3L Y/C (LYC) MODE (Do not adjust)

Select 3L Y/C (LYC) Mode from the Service Menu.

3L Y/C (LYC) Mode Menu Chart		
No.	Item (Not Displayed)	Initial Value
All Models		
LYC01	(MODE)	4
LYC02	(VENH)	1
LYC03	(PDSOFF)	0
LYC04	(CB)	0
LYC05	(VNL R)	2
LYC06	(GSEL0)	0
LYC07	(GSEL1)	1
LYC08	(COR)	0
LYC09	(TRAP)	1
LYC10	(CHTRAP)	0
LYC11	(CBPF)	0
LYC12	(ENHOFF)	0

SYSTEM (SYS) MODE (Do not adjust)

Select SYSTEM (SYS) Mode from the Service Menu.

SYSTEM (SYS) Mode Menu Chart		
No.	Item	Initial Value
All Models		
SYS01	VIDEO IN	3
SYS02	VSM	1
SYS03	CLR TEMP	1
SYS04	THEATER	1
SYS05	THEA PRO	1
SYS06	GAME MD	0
SYS07	AHS	0
SYS08	HYPER SR	1
SYS09	BBE	1
SYS10	S SOUND	1
SYS11	16:9 MD	1
SYS12	S CCD	1
SYS13	ID DISP	1
SYS14	CH LAB	1
SYS15	V LAB	1
SYS16	W CLOCK	1
SYS17	PIM	1
SYS18	PURITY	0
SYS19	VOL MUTE	1
SYS20	VCHIP	1
SYS21	VCHIP CA	1
SYS22	CCD	1
SYS23	HYPSCAN	1
SYS24	JVC LOGO	1
SYS25	PANORAMA	0
SYS26	TILT	0

FACTORY SETTINGS

Item	Value
Button	
POWER	OFF
CHANNEL	CH-02
VOLUME	10
Remote Control Direct	
INPUT	TV
CHANNEL	CH-02
VOLUME	10
MUTING	OFF
DISPLAY	OFF
SLEEP TIMER	OFF
THEATER PRO	OFF
VIDEO STATUS	DYNAMIC
ASPECT	4:3
SOUND	
HYPER SURROUND	OFF
BBE	ON
Picture	
TINT	0
COLOR	0
PICTURE	+8
BRIGHT	0
DETAIL	+8
COLOR TEMPERATURE	HIGH
NOISE MUTING	ON
VSM	ON
Sound	
BASS	0
TREBLE	0
BALANCE	0
MTS	STEREO
SMART SOUND	OFF
Clock / Timers	
SET CLOCK	OFF
ON / OFF TIMER	OFF
Initial Setup	
LANGUAGE	ESP
CLOSED CAPTION	OFF (CC1/T1)
FRONT PANEL LOCK	OFF
AUTO SHUT OFF	OFF

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.
Oscilloscope	SC3100
Generators	
RGB	CM2125
Multiburst Signal	VG91
Color Bar	VG91
TV Stereo	VG91
Digital VOM	SC3100
Frequency Meter	SC3100
Hi-Voltage Probe	HP200
Accessory Probes	TP212
Isolation Transformer	PR570
Capacitance Analyzer	LC102
CRT Analyzer	CR7000
AC Leakage Tester	PR570
Inductance Analyzer	LC102
Flyback Yoke Tester	TVA92
Field Strength Meter	SL753
Transistor Tester	TF46
Horizontal Analyzer	HA-2500
Video Analyzer	VG91, TVA92

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.

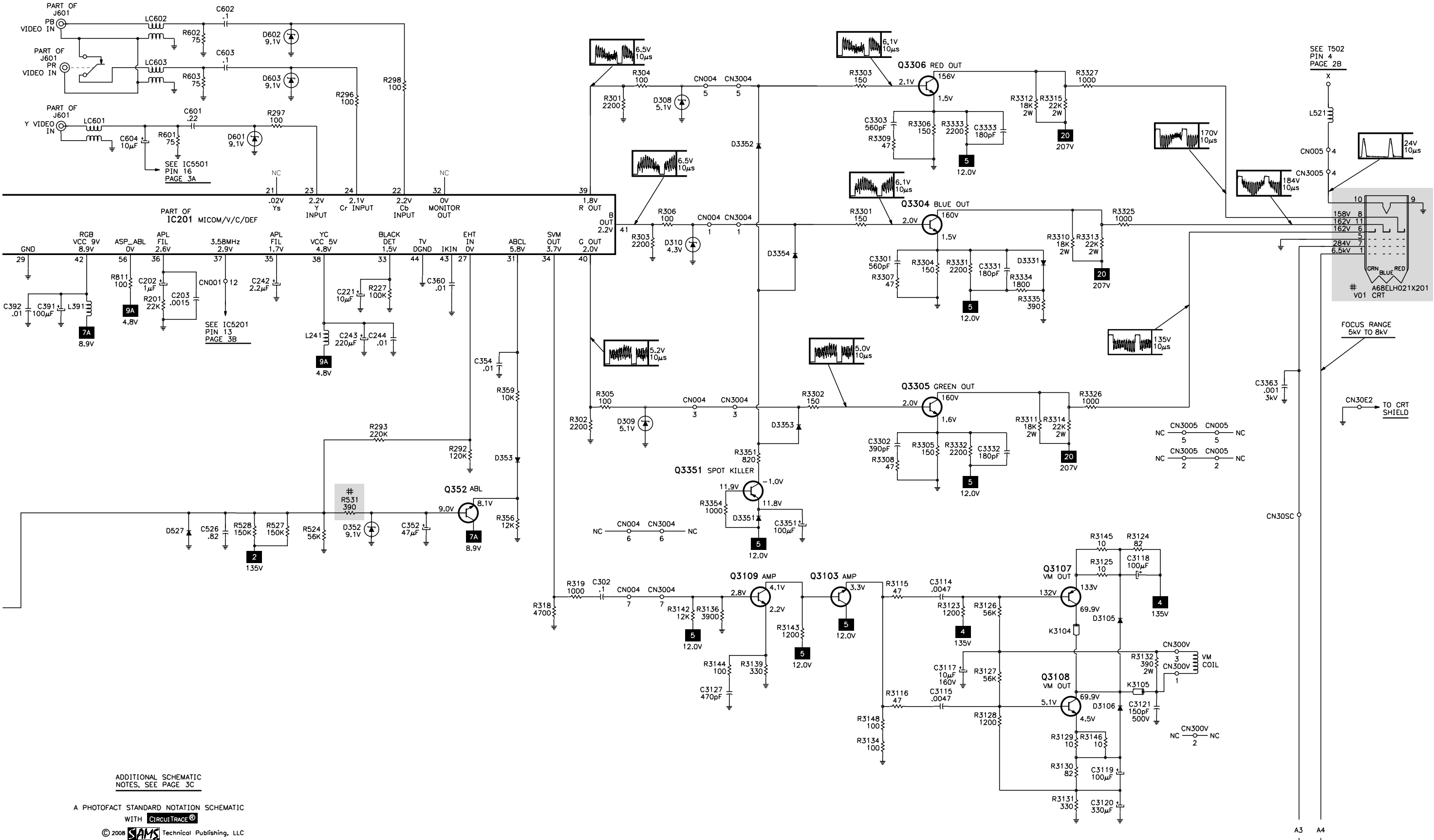
- NTE Electronics, Inc. (NTE)
- Sencore, Inc.



C

D

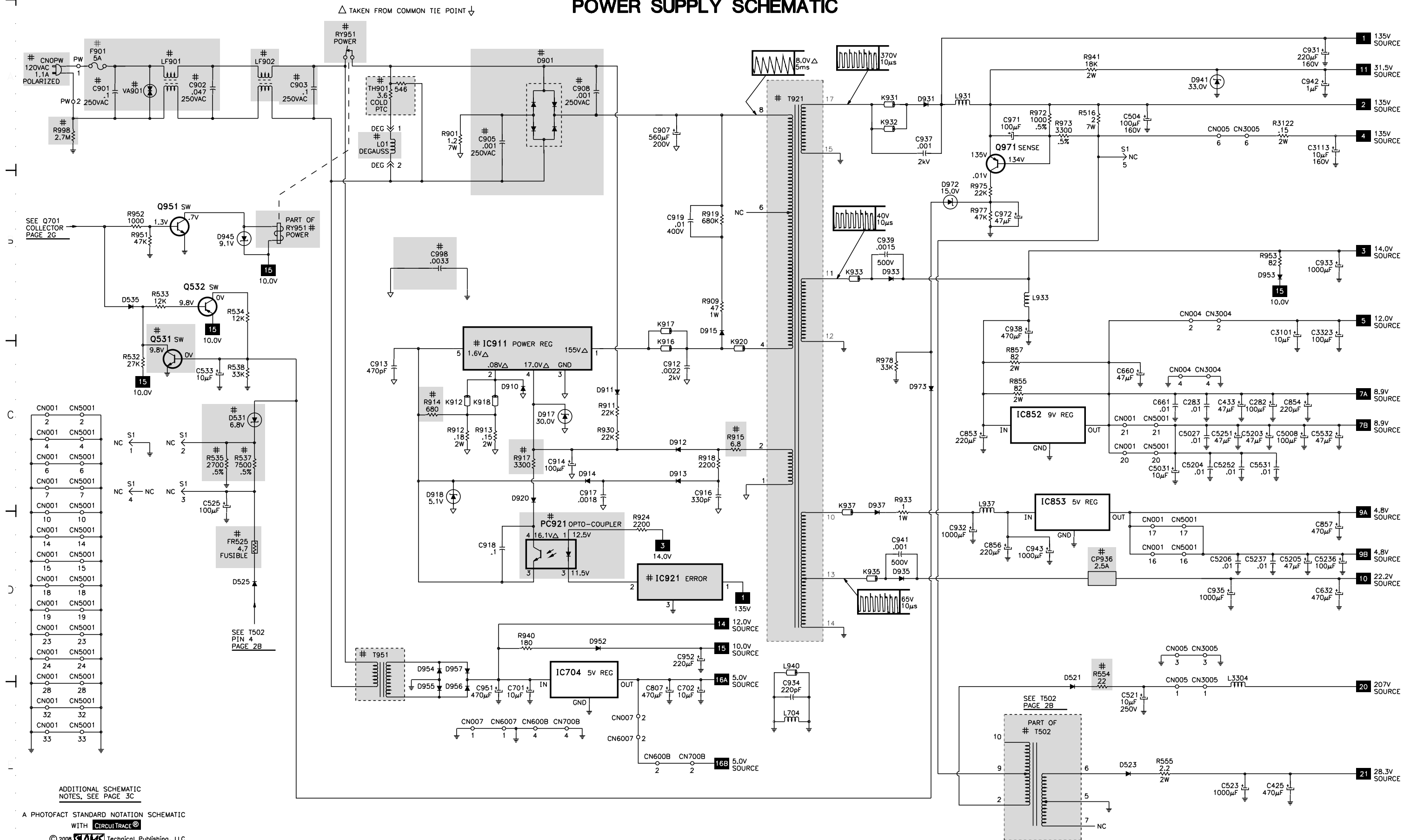
TELEVISION SCHEMATIC continued



E

POWER SUPPLY SCHEMATIC

F

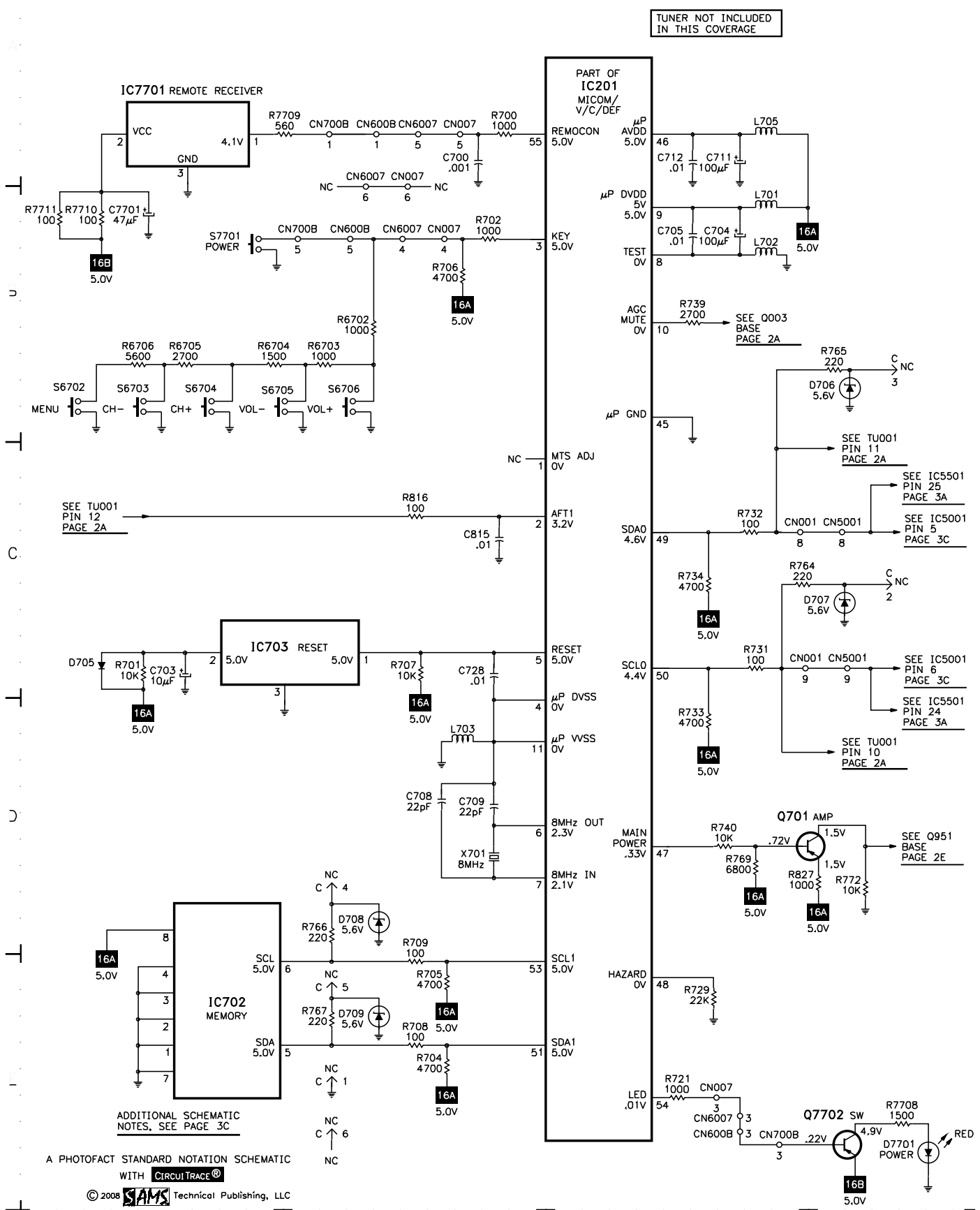


ADDITIONAL SCHEMATIC
NOTES, SEE PAGE 3C

A PHOTOFACT STANDARD NOTATION SCHEMATIC
WITH CIRCUITTRACE®

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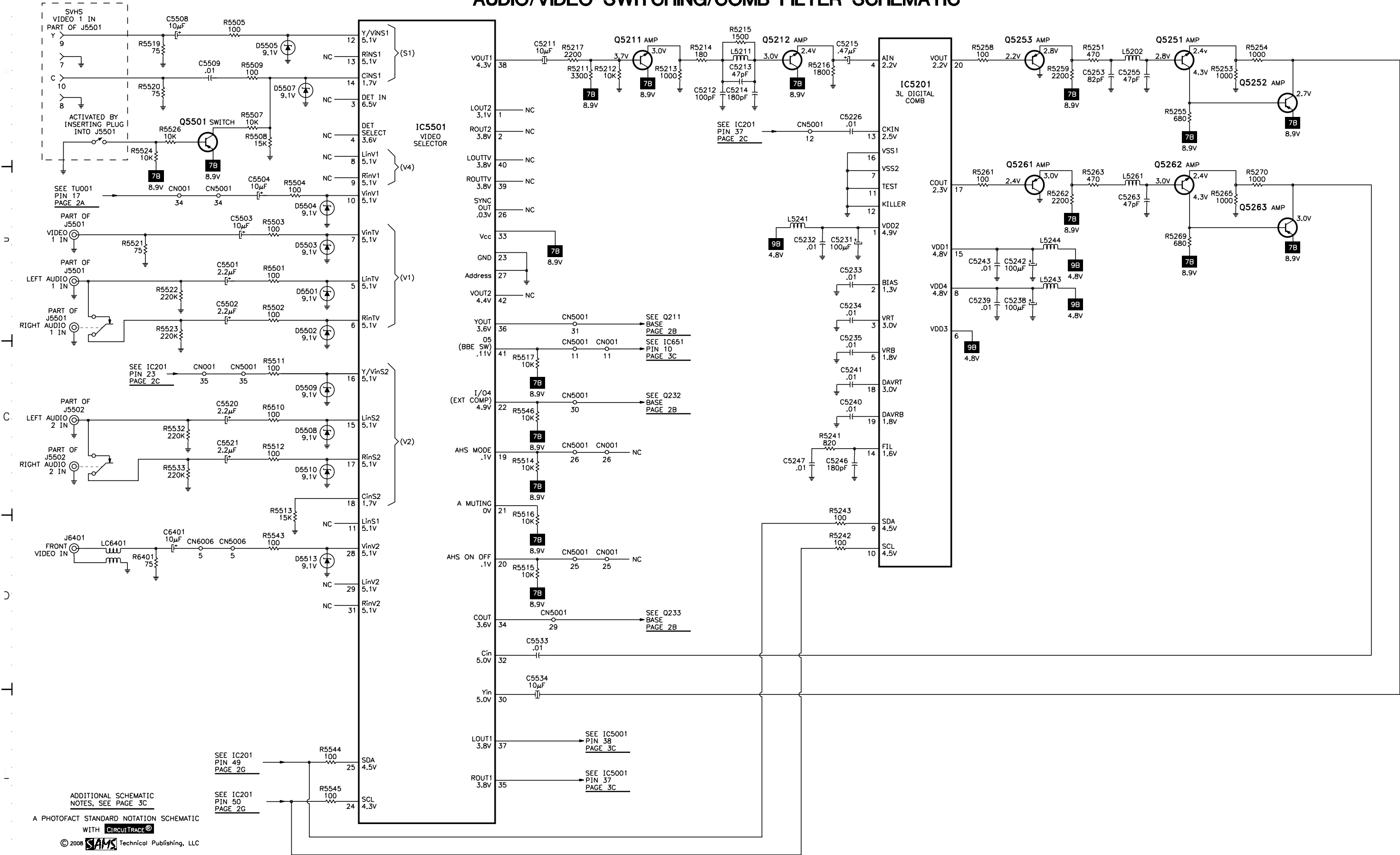
G
SYSTEM CONTROL SCHEMATIC

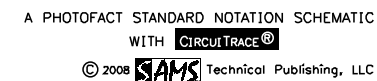


SCHEMATIC COMPONENT LOCATION GUIDE

.0042	E5	C702	E20	C5023	E39	D706	B28	K916	C20	Q5501	B30	R603	A10	R3139	D13	R5501	B30
C001	B1	C703	C25	C5024	D40	D707	C28	K917	C20	Q7702	E28	R621	A42	R3142	D12	R5502	C30
C002	B1	C704	B27	C5025	D39	D708	D26	K918	C19	R001	B2	R623	B42	R3143	D13	R5503	B30
C202	B9	C705	B27	C5026	E39	D709	E26	K920	C21	R002	B2	R624	B42	R3144	D12	R5504	B30
C203	B10	C708	D26	C5027	C23	D901	A19	K931	A21	R003	B3	R626	B41	R3145	D14	R5505	A30
C211	B7	C709	D26	C5028	C39	D910	C19	K932	A21	R008	B4	R627	C41	R3146	E14	R5507	A30
C212	A7	C711	B27	C5029	E39	D911	C20	K933	B21	R010	B4	R628	C41	R3148	E13	R5508	A30
C221	B10	C712	B27	C5030	C38	D912	C20	K935	D21	R201	B9	R630	C43	R3301	B13	R5509	A30
C222	B8	C728	C26	C5031	C23	D913	C20	K937	D21	R212	B7	R631	C42	R3302	C13	R5510	C30
C223	B6	C807	E20	C5203	C24	D914	C20	K3104	D14	R215	B7	R649	C42	R3303	A13	R5511	C30
C233	B7	C815	C26	C5204	C23	D915	C20	K3105	E15	R216	B7	R651	B40	R3304	B14	R5512	C30
C237	B8	C853	C22	C5205	D24	D917	C20	L001	B1	R217	B8	R652	A40	R3305	C14	R5513	D30
C241	B8	C854	C24	C5206	D23	D918	C19	L01	A19	R227	B11	R653	B41	R3306	B14	R5514	C31
C242	B10	C856	D22	C5211	A31	D920	D19	L232	B7	R231	B7	R654	A41	R3307	B13	R5515	D31
C243	C10	C857	D24	C5212	A32	D931	A22	L241	C10	R237	B7	R659	B41	R3308	C13	R5516	D31
C244	C11	C901	A17	C5213	A32	D933	B21	L391	C9	R238	C7	R700	A26	R3309	B13	R5517	C31
C281	D3	C902	A18	C5214	A33	D935	D21	L511	D6	R241	B7	R701	C25	R3310	B14	R5519	A29
C282	C24	C903	A18	C5215	A33	D937	D21	L512	E6	R243	B7	R702	B26	R3311	C14	R5520	A29
C283	C23	C905	A19	C5226	A33	D941	A23	L521	A16	R281	D4	R704	E26	R3312	A14	R5521	B29
C284	D1	C907	A20	C5231	B33	D945	B18	L701	B27	R282	D1	R705	E26	R3313	B14	R5522	B29
C285	D1	C908	A20	C5232	B33	D952	D20	L702	B27	R283	D3	R706	B26	R3314	C14	R5523	C29
C286	D1	C912	C20	C5233	B33	D953	B24	L703	D26	R286	D2	R707	C26	R3315	A14	R5524	B29
C287	A8	C913	C19	C5234	C33	D954	D19	L704	E21	R287	D2	R708	E26	R3325	B15	R5526	B29
C288	A8	C914	C20	C5235	C33	D955	E19	L705	A27	R288	A8	R709	E26	R3326	C14	R5532	C29
C302	D12	C916	C20	C5236	D24	D956	E19	L931	A22	R289	D2	R718	B8	R3327	A14	R5533	C29
C352	D11	C917	C20	C5237	D24	D957	D19	L933	B22	R290	A8	R721	E27	R3331	B14	R5541	B38
C354	C11	C918	D19	C5238	B34	D972	B22	L937	D22	R292	C11	R729	E27	R3332	C14	R5542	B38
C360	B11	C919	B20	C5239	B34	D973	C22	L940	E21	R293	C10	R731	C27	R3333	B14	R5543	D30
C391	C9	C931	A24	C5240	C33	D3105	D15	L3304	E23	R296	A10	R732	C27	R3334	B14	R5544	E30
C392	C9	C932	D22	C5241	C33	D3106	E15	L5202	A35	R297	B10	R733	D27	R3335	B14	R5545	E30
C422	D4	C933	B24	C5242	B34	D3331	B14	L5211	A32	R298	A11	R734	C27	R3351	C13	R5546	C31
C424	D4	C934	E21	C5243	B34	D3351	D13	L5241	B33	R301	A12	R739	B27	R3354	D12	R6401	D29
C425	E24	C935	D23	C5246	C33	D3352	B13	L5243	B34	R302	C12	R740	D27	R5001	C39	R6402	B38
C427	E4	C937	B22	C5247	C33	D3353	C13	L5244	B34	R303	B12	R764	C27	R5002	C38	R6403	B38
C428	D5	C938	C22	C5251	C23	D3354	B13	L5261	B35	R304	A12	R765	B28	R5003	A38	R6702	B26
C431	D5	C939	B21	C5252	C23	D5391	D40	LC601	B9	R305	C12	R766	D26	R5004	A38	R6703	B26
C433	C23	C941	D21	C5253	A35	D5392	E40	LC602	A9	R306	B12	R767	E26	R5005	C39	R6704	B25
C435	D4	C942	A24	C5255	A35	D5501	B30	LC603	A9	R318	D11	R769	D27	R5007	D40	R6705	B25
C440	C4	C943	D22	C5263	B35	D5502	C30	LC6401	D29	R319	D12	R772	D28	R5008	D40	R6706	B25
C501	E4	C951	E19	C5380	E41	D5503	B30	LC6402	B37	R356	D11	R811	B9	R5009	D40	R7708	E28
C502	E4	C952	D20	C5391	D41	D5504	B30	LC6403	B37	R359	C11	R816	C26	R5010	E40	R7709	A25
C503	E4	C971	A22	C5392	E40	D5505	A30	LF901	A17	R421	D4	R827	D27	R5011	B38	R7710	B25
C504	A23	C972	B22	C5501	B30	D5507	A30	LF902	A18	R423	E4	R839	B8	R5012	A38	R7711	B25
C507	E3	C998	B19	C5502	C30	D5508	C30	PC921	D20	R424	E4	R855	C22	R5013	B39	RY951	A18
C508	E3	C3101	C24	C5503	B30	D5509	C30	Q003	C2	R426	D4	R857	C22	R5014	A39	RY951	B18
C513	E6	C3113	A24	C5504	B30	D5510	C30	Q211	B7	R427	D5	R901	A19	R5015	B38	S421	D6
C514	E6	C3114	D14	C5508	A29	D5511	B39	Q232	C7	R428	D5	R909	B20	R5016	B38	S6702	B25
C515	D6	C3115	E14	C5509	A30	D5512	B39	Q233	B7	R429	D3	R911	C20	R5017	C38	S6703	B25
C516	D6	C3117	D14	C5520	C30	D5513	D30	Q352	D11	R431	D5	R912	C19	R5031	D40	S6704	B25
C521	E23	C3118	D15	C5521	C30	D7701	E28	Q501	E4	R432	D5	R913	C19	R5032	E40	S6705	B25
C523	E23	C3119	E15	C5531	C24	F901	A17	Q511	E5	R433	D5	R914	C19	R5033	D40	S6706	B26
C525	D18	C3120	E15	C5532	C24	FR525	D18	Q531	C17	R434	D5	R915	C21	R5034	E40	S7701	B25
C526	D10	C3121	E15	C5533	D31	IC201	A27	Q532	B18	R435	D5	R917	C19	R5211	A32	SP01	B44
C527	E2	C3127	E12	C5534	E31	IC201	B10	Q541	E2	R502	E3	R918	C20	R5212	A32	SP02	A44
C533	C18	C3301	B13	C6401	D29	IC201	D1	Q542	E3	R503	E4	R919	B20	R5213	A32	T501	E5
C601	B9	C3302	C13	C6402	B38	IC421	C4	Q543	E3	R504	E5	R924	D20	R5214	A32	T502	C7
C602	A10	C3303	A13	C6403	B38	IC621	B43	Q621	B42	R505	E5	R930	C20	R5215	A32	T502	E22
C603	A10	C3323	C24	C7701	B25	IC651	A41	Q622	B41	R511	E5	R933	D21	R5216	A33	T921	A21
C604	B9	C3331	B14	CN0PW	A17	IC702	E25	Q623	C42	R512	D6	R940	D19	R5217	A32	T951	D19
C621	A42	C3332	C14	CP936	D23	IC703	C26	Q625	C43	R516	A23	R941	A23	R5241	C33	TH901	A19
C622	B42	C3333	B14	D308	A12	IC704	D20	Q701	D27	R524	D10	R951	B17	R5242	D33	TU001	B2
C624	B42	C3351	D13	D309	C12	IC852	C22	Q951	B17	R526	D2	R952	B17	R5243	D33	VO1	B16
C626	B41	C3363	C15	D310	B12	IC853	D22	Q971	B22	R527	D10	R953	B24	R5251	A34	VA901	A17
C627	A42	C5001	C38	D352	D10	IC911	C19	Q3103	D13	R528	D10	R972	A22	R5253	A35	VM	D15
C628	C43	C5002	C38	D353	C11	IC921	D20	Q3107	D14	R529	D2	R973	A22	R5254	A35	X	D7
C629	B42	C5003	C38	D354	B8	IC5001	A39	Q3108	E14	R531	D10	R975	B22	R5255	A35	X701	D26
C630	C43	C5004	D39	D421	D4	IC5201	A33	Q3109	D13	R532	C17	R977	B22	R5258	A34		
C632	D24	C5005	A38	D422	D5	IC5501	A31	Q3304	B13	R533	B17	R978	C21	R5259	A34		
C633	C42	C5006	D39	D501	E6	IC7701	A25	Q3305	C13	R534	B18	R998	A17	R5261	B34		
C634	C42	C5007	D39	D502	E6	J601	A9	Q3306	A13	R535	C18	R3115	D13	R5262	B34		
C635	C43	C5008	C24	D521	E22	J601	A9	Q3351	D12	R536	E2	R3116	E13	R5263	B34		
C637	B44	C5009	C40	D523	E23	J601	B9	Q5001	D40	R537	C18	R3122	A24	R5265	B35		
C638	A44	C5010	D39	D525	D18	J5501	B29	Q5002	E40	R538	C18	R3123	D14	R5269	B35		
C651	B40	C5011	C40	D526	D2	J5501	B29	Q5211	A32	R543	E2	R3124	D15	R5270	B35		
C652	A40	C5012	D39	D527	D9	J5501	C29	Q5212	A33	R544	E3	R3125	D14	R5384	E42		
C655	B41	C5013	D39	D529	D2	J5502	C29	Q5251	A35	R545	E3	R3126	D14	R5385	E41		
C656	A41	C5014	D40	D531	C18	J5502	C29	Q5252	A36	R546	E2	R3127	E14	R5386	E42		
C657	B41	C5015	E39	D535	B17	J5503	D42	Q5253	A34	R547	E2	R3128	E14	R5387	E41		
C658	A41	C5016	E39	D601	B10	J5503	E42	Q5261	B34	R548	E3	R3129	E14	R5391	D41		
C659	B42	C5017	B38	D602	A10	J6401	D29	Q5262	B35	R553	E3	R3130	E14	R5392	E41		
C660	C23	C5018	B38	D603	A10	J6402	B37	Q5263	B36	R554	E23	R3131	E14	R5393	D41		
C661	C23	C5019	C39	D621	C42	J6403	B37	Q5384	E42	R555	E23	R3132	D15	R5394	E41		
C662	B41	C5020	E39	D623	C42	K401	D5	Q5385	E42	R601	B9	R3134	E13	R5395	D42		
C701	E19	C5021	B40	D626	B41	K912	C19	Q5386	D42	R602	A10	R3136	D12	R5396	E42		

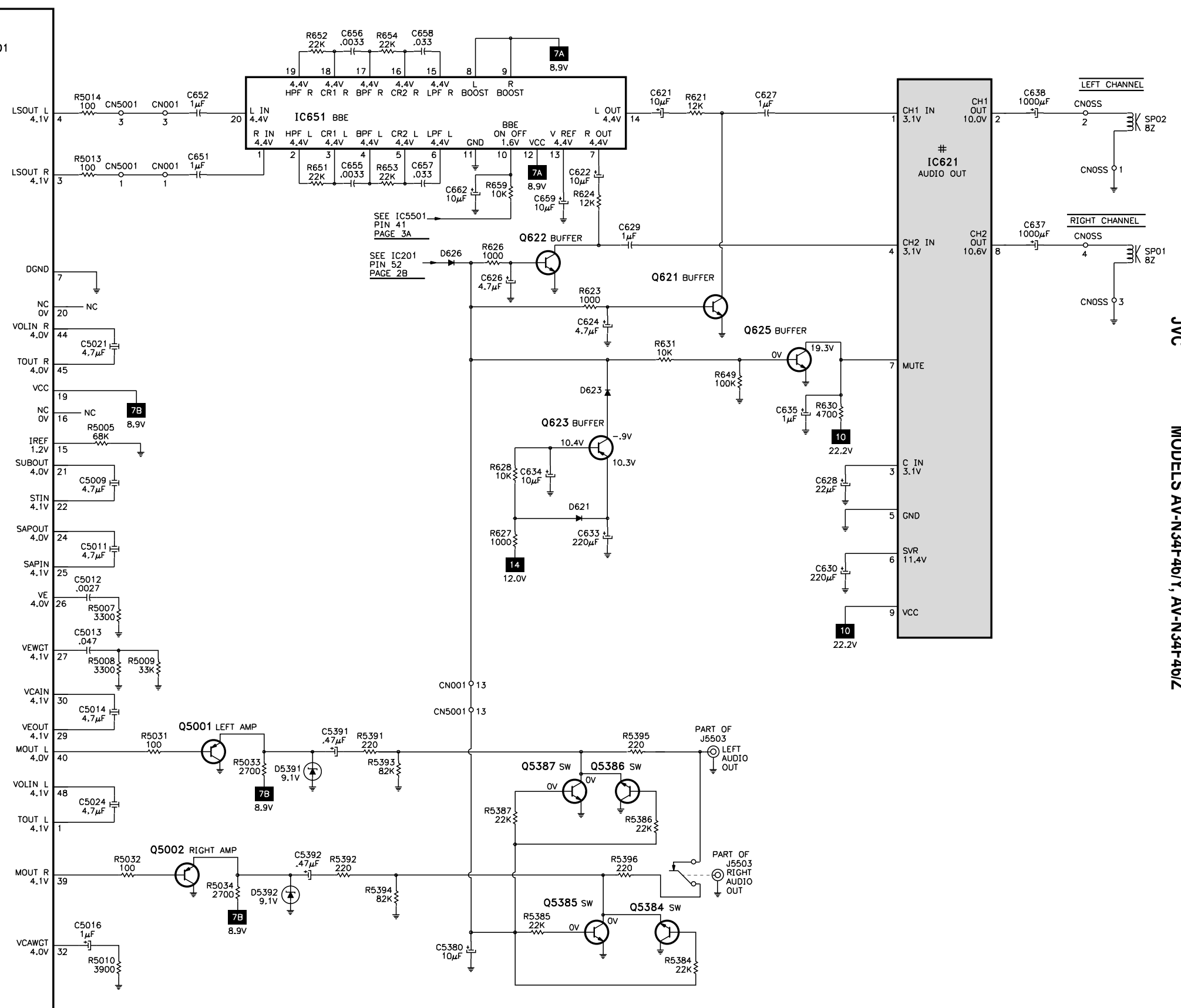
AUDIO/VIDEO SWITCHING/COMB FILTER SCHEMATIC





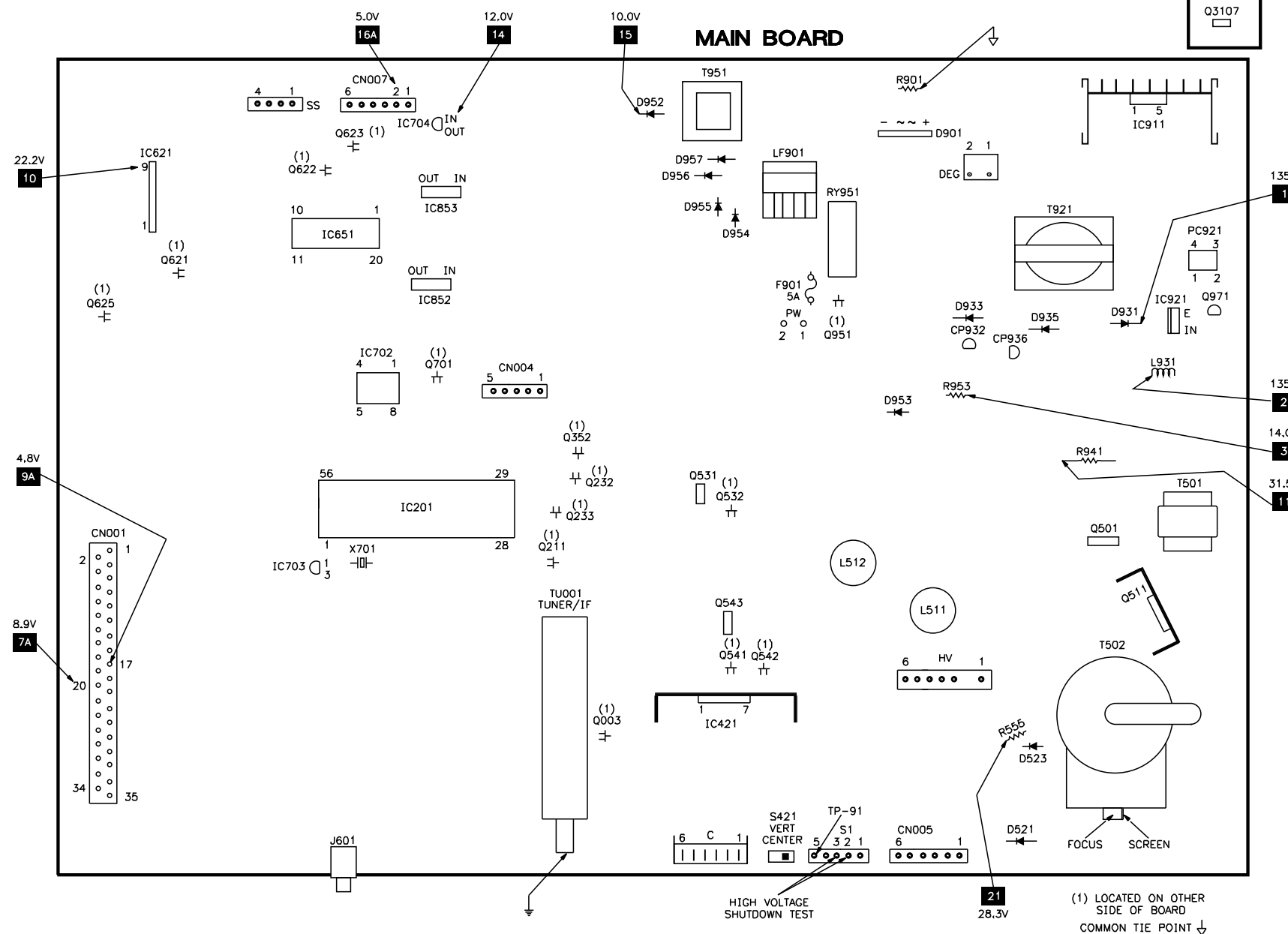
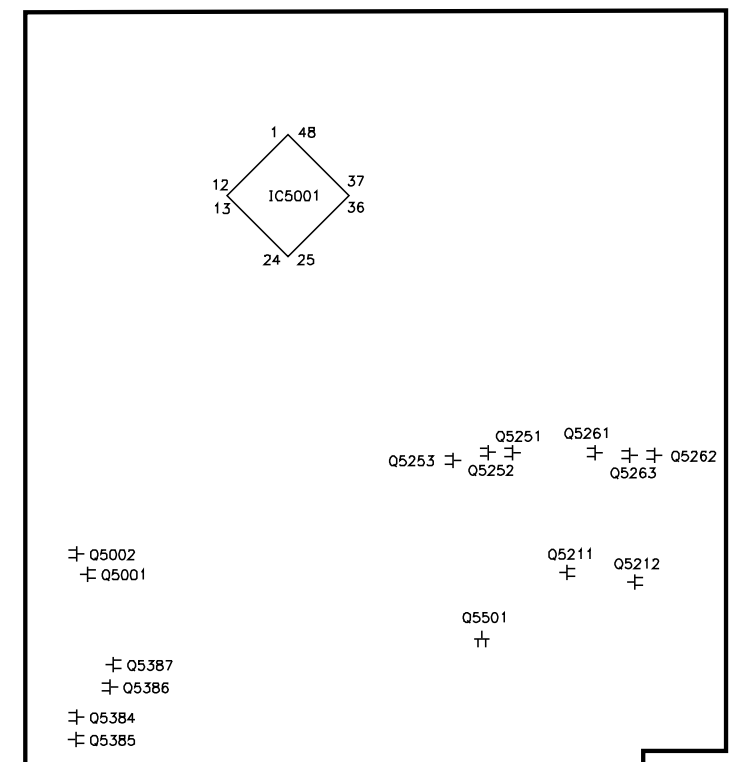
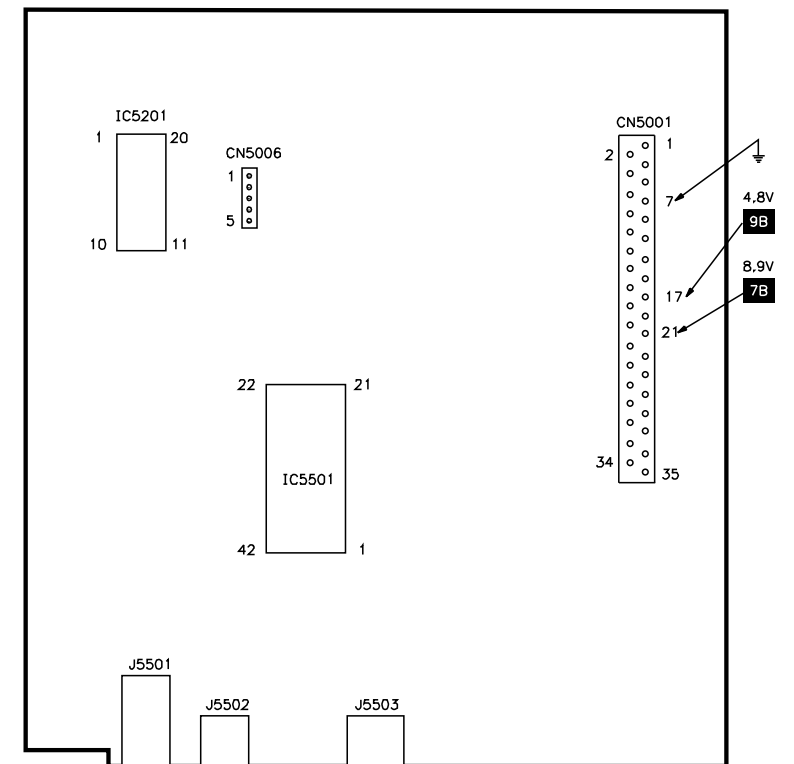
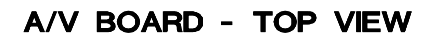
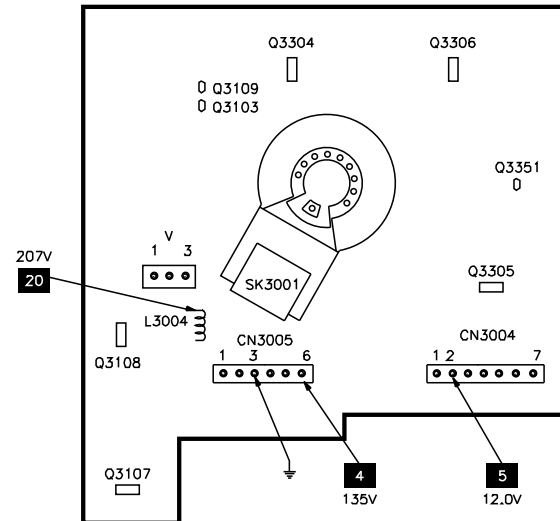
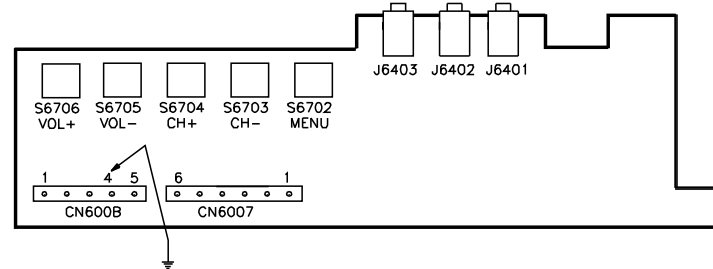
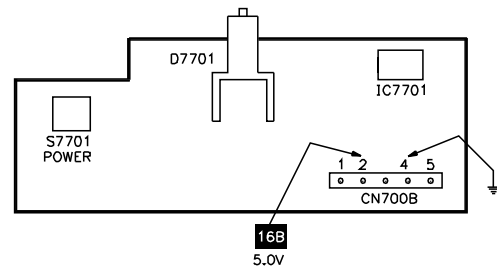
SCHEMATIC NOTES

- # 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 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 1000 μ V 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.



JVC **MODELS AV-N34F46/Y, AV-N34F46/Z**

PLACEMENT CHART



(1) LOCATED ON OTHER
SIDE OF BOARD
COMMON TIE POINT ↓

PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes	Item No.	Type No.	Mfr. Part No.	Notes	Item No.	Function/Rating	Mfr. Part No.	Notes
D308	-	MTZJ4.3A-T2	-	Q532, 41, 42	-	2SA1530A/QR/-X	-	L701 Thru			
D309	-	MTZJ5.1B-T2	-	Q543	-	2SD1267A/QP/	-	L705	22µH	QQL244K-220Z	-
D310	-	MTZJ4.3A-T2	-	Q621, 22	-	2SD601A/QR/-X	-	L931, 33, 37	47µH	QQL26AK-470Z	-
D352	-	MTZJ9.1C-T2	-	Q623	-	2SA1530A/QR/-X	-	L940	Ferrite Bead	QQR0582-001Z	-
D353	-	1SS133-T2	-	Q625	-	2SD601A/QR/-X	-	L3304	47µH	QQL244K-470Z	-
D354	-	MTZJ3.3A-T2	-	Q701	-	2SA1530A/QR/-X	-	L5202	15µH	QQL244K-150Z	-
D421	-	GP10DE-5009-T2	-	Q951	-	2SD1383K/AB/-X	-	L5211	4.7µH	QQL244K-4R7Z	-
D422	-	MTZJ75-T2	-	Q971	-	2SA1208/ST/Z1-T	-	L5241, 43, 44	4.7µH	QQL244K-4R7Z	-
D501	-	RH3G-F1	-	Q3103	-	2SC3928A/QR/-X	-	L5261	15µH	QQL244K-150Z	-
D502	-	RU3AM-LFC4	-	Q3107	-	2SA2005/DE/	-	LC601, 02, 03	EMI Filter	QQR1653-001	-
D521	-	RH1S-T3	-	Q3108	-	2SC5511/DE/	-	LC6401, 02, 03	EMI Filter	QQR1459-001	-
D523	-	RGP10J-04TS-T3	-	Q3109	-	2SC3928A/QR/-X	-	# LF901, 02	Line Filter	QQR0527-003	-
D525, 26	-	1SS81-T5	-	Q3304, 05, 06	-	2SC4544-LB	-	R504, 05	1500 5% 3W	QRL039J-152	-
D527	-	1SR124-400A-T2	-	Q3351	-	2SA1530A/QR/-X	-	R516	2 10% 7W	QRZ0221-2RD	-
D529	-	MTZJ9.1C-T2	-	Q5001, 02	-	2SA1530A/QR/-X	-	# R531	390 5% 1/4W	QRZ0230-391X	-
# D531	-	MA4068N/Z1/-T2	-	Q5211, 12, 51	-	2SC3928A/QR/-X	-	# R535	2700 .5% 1/10W	NRVA02D-272X	-
D535	-	1SS133-T2	-	Q5252, 53, 61	-	2SA1530A/QR/-X	-	# R537	7500 .5% 1/10W	NRVA02D-752X	-
D601, 02, 03	-	MTZJ9.1C-T2	-	Q5262	-	2SC3928A/QR/-X	-	R553	39 5% 3W	QRL039J-390	-
D621, 23, 26	-	1SS133-T2	-	Q5263	-	2SA1530A/QR/-X	-	# R554	22 5% 1/2W	QRK126J-220X	-
D705	-	1SS133-T2	-	Q5384 Thru				R901	1.2 10% 7W	QRF074K-1R2	-
D706 Thru				Q5387	-	DTC323TK-X	-	# R914	680 5% 1/2W	QRK126J-681X	-
D709	-	MTZJ5.6B-T2	-	Q5501	-	2SA1530A/QR/-X	-	# R915	6.8 5% 1/2W	QRK129J-6R8	-
# D901	-	GSIB460	-	Q7702	-	UN2112-X	-	# R917	3300 5% 1/2W	QRK126J-332X	-
D910	-	MA700A-T2	-					R972	1000 .5% 1/10W	NRVA02D-102X	-
D911, 12	-	RGP10J-04TS-T3	-	Item No.	Function/Rating	Mfr. Part No.	Notes	R973	3300 .5% 1/10W	NRVA02D-332X	-
D913, 14	-	1SS133-T2	-	C211	10µF 20% 16V NP	QENC1CM-106Z	-	# R998	2.7M 10% 1/2W	QRZ9041-275	-
D915	-	SARS01-T2	-	C507, 08	4.7µF 10% 50V NP	QEM61HK-475Z	-	# RY951	Relay	QSK0085-001	Power
D917	-	MTZJ30A-T2	-	# C510	.0048 3% 1.5kV	QFZ0200-482	-	S421	Switch	QSL4A13-C02	Vertical Centering
D918	-	MTZJ5.1C-T2	-	# C513	.011 3% 1.5kV	QFZ0196-113	-	S6702	Switch	QSW0619-003Z	Menu
D920	-	1SS133-T2	-	# C901	.1 10% 250VAC	QFZ9072-104	-	S6703	Switch	QSW0619-003Z	Channel -
D931	-	RU4AM-LFT2	-	# C902	.047 10% 250VAC	QFZ9072-473	-	S6704	Switch	QSW0619-003Z	Channel +
D933, 35, 37	-	RU3YX-LFC4	-	# C903	.1 10% 250VAC	QFX9072-104	-	S6705	Switch	QSW0619-003Z	Volume -
D941	-	MTZJ33A-T2	-	# C905, 08	.001 250VAC	QCZ9054-102	-	S6706	Switch	QSW0619-003Z	Volume +
D945	-	MTZJ9.1B-T2	-	C912	.0022 10% 2kV	QCZ0340-222	-	S7701	Switch	QSW0847-001	Power
D952, 53	-	1SS133-T2	-	C937	.001 10% 2kV	QCZ0340-102	-	# SK3001	Socket	QNZ0536-001	CRT
D954 Thru				# C998	.0033	QCZ9073-332	-	SP01, 02	Speaker	QAS0243-001	8 Ohms
D957	-	1N4002G-T2	-	C3363	.001 3kV	QCZ0121-102	-	T501	Horizontal Drive	QQR1414-001	-
D972	-	MTZJ15C-T2	-	C5001, 09, 11, 14	4.7µF 20% 50V NP	QENC1HM-475Z	-	# T502 (1)	Horizontal Output	QQH0175-001	-
D973	-	1SS133-T2	-	C5017, 18, 21, 24	4.7µF 20% 50V NP	QENC1HM-475Z	-	# T921	Switching	QQS0152-001	-
D3105, 06	-	RH1S-T3	-	C5211	10µF 20% 16V NP	QENC1CM-106Z	-	# T951	Power	QQT0355-001	-
D3331	-	1SS133-T2	-	C5534	10µF 20% 16V NP	QENC1CM-106Z	-	# TH901	3.6 PTC Cold/546	QAD0132-3R0	-
D3351 Thru				# CN0PW	Line Cord	QMPD390-200-JS	-	# TU001	Tuner/IF	QAU0352-002	-
D3354	-	1SS133-T2	-	# CP936	Fuse	ICP-N70-T	AC, Polarized	# V01 (2)	CRT	A68ELH021X201	-
D5391, 92	-	MTZJ9.1C-T2	-	# F901	Fuse	QMF51N1-5R0-J5	2.5Amp, IC Protector	# V01 (3)	CRT	A68QCP693X002	-
D5501 Thru				# FR525	4.7 5% 1/4W Fusible	QRZ9017-4R7	5Amp	# VA901 (2)	Varistor	ERV10V621CS	-
D5505	-	MTZJ9.1C-T2	-	IC7701	Receiver	GPIUM281QK	-	# VA901 (3)	Varistor	QAF0028-621	-
D5507 Thru				J601	Jack	QNN0349-002	Remote	VM	Coil	-	-
D5513	-	MTZJ9.1C-T2	-	J5501	Jack	QNZ0454-001	Assembly	X701	Crystal	QAX0767-001Z	8MHz
D7701	-	LG22440	-	J5502	Jack	QNN0348-001	Assembly		PC Board	SGJ-5521A-M2	A/V
IC201	-	TM8812CSDNG5JB4	-	J5503	Jack	QNN0348-001	Assembly		PC Board (2)	SGJ-3521A-M2	CRT
IC421	-	LA78041	-	J6401	Jack	QNN0281-003	Assembly		PC Board (3)	SGJ-3522A-M2	CRT
# IC621	-	TFA9843J/N1	-	J6402	Jack	QNN0281-002	Front Video Input		PC Board	SGJ-6521A-M2	Front Control
IC651	-	NJM2150AD	-	J6403	Jack	QNN0281-001	Front Left Audio Input		PC Board	SGJ-7521A-M2	LED & Power Sw
IC702 (2)	-	ATE08-N29F46Y	-	K401	Ferrite Bead	QQR0621-002Z	Front Right Audio Input		PC Board (2)	SGJ-1589A-M2	Main
IC702 (3)	-	ATE08-N29F46Z	-	K912, 16, 17, 18	Ferrite Bead	QQR0582-001Z	-		PC Board (3)	SGJ-1590A-M2	Main
IC703	-	S-80840CNY-G-T	-	K920	Ferrite Bead	QQR1139-001	-		Transmitter	RM-C1258G-1H	Remote
IC704	-	AN78L05-T	-	K931, 32, 33	Ferrite Bead	QQR0582-001Z	-				
IC852	-	L7809CP	-	K935, 37	Ferrite Bead	QQR0582-001Z	-	# For SAFETY use only equivalent replacement part.			
IC853	-	L7805CP	-	K3104, 05	Ferrite Bead	QQR1114-001Z	-	(1) Screen and focus controls are part of T502.			
# IC911	-	STR-G9626-F3	-	L001	22µH	QQL244K-220Z	-	(2) Used in model AV-N34F46/Y.			
# IC921	-	SE135N	-	# L01	Degaussing	QQW0090-001	-	(3) Used in model AV-N34F46/Z.			
IC5001	-	CXA2205Q-X	-	L232	56µH	QQL244K-560Z	-				
IC5201	-	TC90A49AP	-	L241	22µH	QQL244K-220Z	-				
IC5501	-	TA1218AN	-	L391	22µH	QQL244K-220Z	-				
# PC921	-	PC123Y22	-	L511 (2)	Horizontal Linearity	QQR1165-005	-				
Q003	-	UN2212-X	-	L511 (3)	Horizontal Linearity	QQR1165-001	-				
Q211, 32, 33	-	2SC3928A/QR/-X	-	L512	820µH	QQLZ036-821	-				
Q352	-	2SC3928A/QR/-X	-	L521 (2)	80µH	QQLZ018-800	-				
Q501	-	2SC4212/Z1/	-	L521 (3)	86µH	QQLZ026-860	-				
# Q511	-	2SD2645-YD	-								
# Q531	-	2SC2785/JH/-T	-								