

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 22.8K ohms ± 0.5%, 1/4W resistor across pin 2 and pin 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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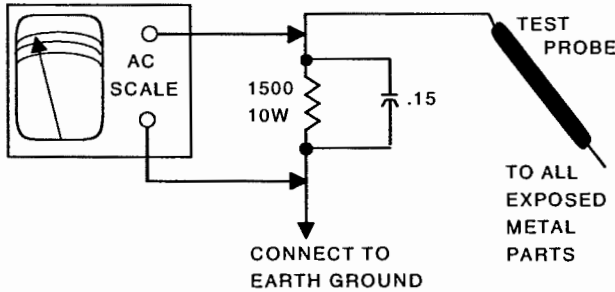
SAFETY CHECKS — FIRE AND SHOCK HAZARD

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.



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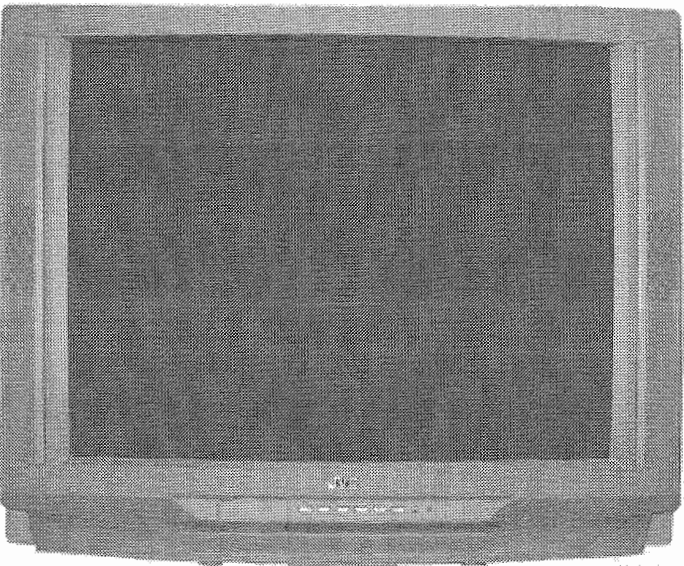
SET 4836

MODEL AV-36D503/M

JVC

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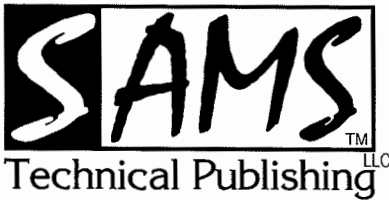
Representative Model

Essential coverage
for servicing a television receiver...

- Schematics
- Component locations
- Parts list

Coverage includes these additional models :

Models	Models
AV-36D203/M	AV-36D303/R
AV-36D203/R	AV-36D303/Y
AV-36D203/Y	AV-36D503/R
AV-36D303/M	AV-36D503/Y



FEBRUARY 2004 SET 4836

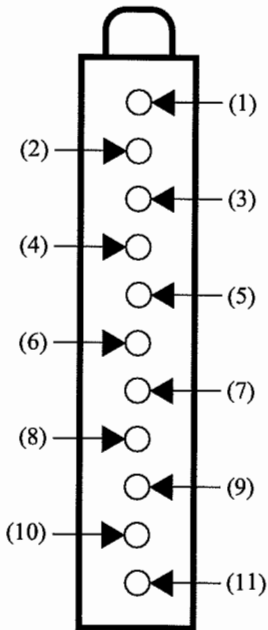
TUNER INFORMATION

MAIN TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	3.0V	4.0V	4.0V
(2) NC	0V	0V	0V
(3) ADRS	4.8V	4.8V	4.8V
(4) SCL	4.3V	4.3V	4.3V
(5) SDA	4.4V	4.4V	4.4V
(6) MB	4.8V	4.8V	4.8V
(7) BP	4.8V	4.8V	4.8V
(8) NC	0V	0V	0V
(9) BT	32.0V	32.0V	32.0V
(10) NC	0V	0V	0V
(11) IF	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

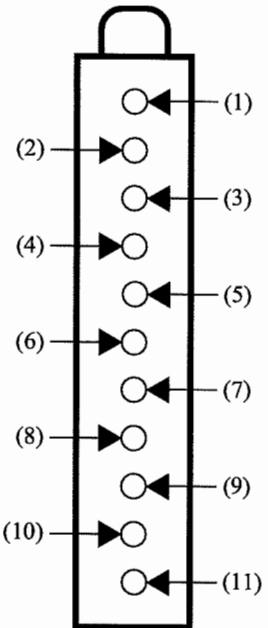


PIP TUNER VOLTAGE CHART

Pin	VHF Low Band	VHF High Band	UHF Band
(1) AGC	2.2V	2.1V	1.9V
(2) BT	0V	0V	0V
(3) ADRS	2.4V	2.4V	2.4V
(4) SCL	4.3V	4.3V	4.3V
(5) SDA	4.4V	4.4V	4.4V
(6) MB	4.8V	4.8V	4.8V
(7) BP	4.8V	4.8V	4.8V
(8) LOCK	0V	0V	0V
(9) 30V	32.0V	32.0V	32.0V
(10) NC	0V	0V	0V
(11) IF	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.

PIP TUNER TERMINAL GUIDE



MISCELLANEOUS ADJUSTMENTS

NOTE: This receiver employs digital customer controls. Unless otherwise indicated all adjustments were performed with the customer controls at center.

B+ CHECK

Tune in a picture. Connect a digital DC voltmeter to cathode of D931 and ground. With AC line set to 120VAC, voltage should read 134V± 2.0V.

HIGH VOLTAGE CHECK

Tune in a picture. Connect a High Voltage Probe to the CRT anode, low side to ground. High voltage should read 30kV to 33kV.

PURITY & CONVERGENCE

Purity and convergence are factory set and the yoke is bonded to CRT.

SERVICE MENU

To enter the service menu, press the sleep timer key, and 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 channel up and down buttons to select and use the volume left and right buttons to adjust the data value. To return to the previous screen press the exit button. 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) |
| 5. PIP (PIP) | 6. 3L Y/C (LYC) |
| 7. LOW LIGHT | 8. HIGH LIGHT |
| 9. RF AFC | 10. VCO |
| 11. I ² C BUS | 12. SYSTEM (SYS) |

NOTE: If the data value on the screen is "- -", it is not to be adjusted.

SYSTEM (SYS) MODE

Select System (SYS) Mode from the service menu.

System (SYS) Mode Menu Chart (Do Not Adjust)

No.	Adjustment	Range	Initial Value	On set Value
SYS01	VIDEO IN	000 ~ 004	003	003
SYS02	PIP	000 / 001	000	000
SYS03	3D Y/C	000 / 001	000	000
SYS04	Y CV	000 / 001	000	000
SYS05	CCD P CHK	000 / 001	001	001
SYS06	PURITY	000 / 001	000	000
SYS07	VM	000 / 001	000	000
SYS08	NOISE CR	000 / 001	000	000
SYS09	CLR TEMP	000 / 001	001	001
SYS10	THEATER	000 / 001	001	001
SYS11	THEATER PRO	000 / 001	001	001
SYS12	BBE	000 / 001	001	002
SYS13	HYP SURR	000 / 001	001	001
SYS14	16:9 MD	000 / 001	000	000
SYS15	HYP SCAN	000 / 001	001	001
SYS16	EZ SURF	000 / 001	000	000
SYS17	ID DISP	000 / 001	001	001
SYS18	COMPULINK	000 / 001	001	001
SYS19	CCD	000 / 001	001	001
SYS20	VCHIP	000 / 001	001	001
SYS21	VCHIP CA	000 / 001	001	001
SYS22	JVC LOGO	000 / 001	001	001
SYS23	CMP IN	000 / 001	001	001
SYS24	CXA1875	000 / 001	000	000

V / C (S) MODE

Select V / C (S) Mode from the service menu.

V / C (S) Mode Menu Chart

No.	Adjustment	Range	Initial Value	On set Value
S01	BRIGHT	000 ~ 127	064	064
S02	PICTURE	000 ~ 127	055	055
S03	COLOR	000 ~ 127	055	050
S04	TINT	000 ~ 127	064	060
S05	DETAIL	000 ~ 063	037	037
S06	BRIGHT + -	-32 ~ +32	---	---
S07	PICTURE + -	-32 ~ +32	---	---
S08	COLOR + -	-32 ~ +32	---	---
S09	TINT + -	-32 ~ +32	---	---
S10	DETAIL + -	-32 ~ +32	---	---
S11	R CUTOFF	000 ~ 255	030	046
S12	G CUTOFF	000 ~ 255	030	053
S13	B CUTOFF	000 ~ 255	030	084
S14	R DRIVE	000 ~ 127	064	076
S15	B DRIVE	000 ~ 127	064	072
S16	R CUT + -	-128 ~ +127	---	---
S17	G CUT + -	-128 ~ +127	---	---
S18	B CUT + -	-128 ~ +127	---	---
S19	R DRV + -	-128 ~ +127	---	---
S20	B DRV + -	-128 ~ +127	---	---
S21	NTSC MAT	000 ~ 003	003	003
S22	BLACK ST	000 ~ 003	001	001
S23	DC REST	000 / 001	001	001
S24	DC RSW	000 / 001	001	001
S25	ASY SHRP	000 ~ 007	005	005
S26	BPF F0	000 / 001	000	000
S27	KILR OFF	000 / 001	000	000
S28	KILR SEN	000 / 001	001	001
S29	RGB MUTE	000 / 001	000	000
S30	BLUE B	000 / 001	000	000
S31	VIDEO SW	000 ~ 003	003	003
S32	CMP ABCL	000 / 001	000	000
S33	OSD ABL	000 / 001	000	000
S34	OSD CONT	000 ~ 063	010	010
S35	SUB CONT	000 ~ 015	008	008
S36	ABL GAIN	000 ~ 003	000	000
S37	ABL PNT	000 ~ 003	003	003
S38	Y GAMMA	000 ~ 003	001	001
S39	Y MUTE	000 / 001	000	000
S40	SVM GAIN	000 ~ 003	000	000
S41	SVM PH	000 ~ 003	000	000
S42	WPL	000 / 001	000	000
S43	COL GMM	000 / 001	000	000
S44	V1 GAIN	000 ~ 007	004	004
S45	AGC ADJ	000 ~ 127	063	080
S46	VM OFF	-128 ~ +127	±000	±000
S47	APC CLK	000 / 001	001	001

RF AGC

Tune in a picture. Decrease the value of AGC ADJ (S45) until snow appears in the picture. Increase the value of AGC ADJ (S45) until snow disappears from the picture. Check all channels for proper picture and readjust if necessary.

Sub Bright / Sub Contrast / 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.

MISCELLANEOUS ADJUSTMENTS continued

DEF (D) MODE

Select DEF (D) Mode from the service menu.

DEF (D) Mode Menu Chart

No.	Adjustment	Range	Initial Value	On set Value
D01	V FREQ	000 ~ 003	000	000
D02	AFC GAIN	000 ~ 003	000	000
D03	H POSI	000 ~ 031	016	021
D04	H POSI + -	-128 ~ +127	---	---
D05	V PHASE	000 ~ 007	000	000
D06	V PH + -	-128 ~ +127	---	---
D07	V SIZE	000 ~ 127	070	060
D08	V SIZE + -	-128 ~ +127	---	---
D09	V CENTER	000 ~ 063	032	032
D10	V CENT + -	-128 ~ +127	---	---
D11	V S CORR	000 ~ 015	005	005
D12	V S CO + -	-128 ~ +127	---	---
D13	V LIN	000 ~ 015	012	013
D14	V LIN + -	-128 ~ +127	---	---
D15	H SIZE	000 ~ 063	032	018
D16	H SIZE + -	-128 ~ +127	---	---
D17	WVMT TOP	000 ~ 003	000	000
D18	WVMT BTM	000 ~ 003	000	000
D19	EWCR TOP	000 ~ 031	012	011
D20	EWCR T + -	-128 ~ +127	---	---
D21	EWCR BTM	000 ~ 031	015	013
D22	EWCR B + -	-128 ~ +127	---	---
D23	EW PARA	000 ~ 063	036	030
D24	EW PARA + -	-128 ~ +127	---	---
D25	V EHT	000 ~ 007	003	004
D26	V EHT + -	-128 ~ +127	---	---
D27	H EHT	000 ~ 007	001	001
D28	H EHT + -	-128 ~ +127	---	---
D29	TRAPEZ	000 ~ 063	035	035
D30	TRAPEZ + -	-128 ~ +127	---	---
D31	V AGC	000 / 001	000	000
D32	BLANK SW	000 / 001	000	000
D33	VRMP BI	000 / 001	000	000

Vertical Size / Vertical Center / Vertical Position

Tune in a crosshatch pattern. Adjust V SIZE (D07) for a slightly under-scanned picture. Adjust V CENTER (D09) and SW401 to center the picture. Adjust V SIZE (D07) for a 92% of vertical screen size.

Horizontal Position / Horizontal Size / Side Pin Correction

Tune in a crosshatch pattern. Adjust EW PARA (D23) to obtain straight vertical lines on both sides of the pattern. Adjust H POSI (D03) to center the picture.Adjust H Size (D15) for a 92% of horizontal screen size. Adjust EWCR TOP (D19) to obtain straight vertical lines at the two top corners. Adjust EWCR BTM (21) to obtain straight vertical lines at the two bottom corners.

SOUND (A) MODE

Select Sound (A) Mode from the service menu. Receive a RF signal.

Sound (A) Mode Menu Chart

No.	Adjustment	Range	Initial Value	On set Value
A01	IN LEVEL	000 ~ 015	010	010
A02	LOW SEP	000 ~ 063	032	050
A03	HI SEP	000 ~ 063	032	021
A04	SAPC	000 / 001	000	000
A05	BBE BASS	-128 ~ +127	±000	±000
A06	BBE TRE	-128 ~ +127	-004	±000

MTS Input Level

Select IN LEVEL (A01) and verify is set at the initial setting value.

MTS Separation

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 1 of connector MPX and adjust to display one cycle of the 300Hz signal. Connect oscilloscope to pin 2 of connector MPX. Adjust LOW SEP (A02) for minimum amplitude of the waveform. Select 8kHz audio frequency on the generator. Adjust HI SEP (A03) for minimum amplitude of the waveform.

PIP (PIP) MODE

Select PIP (PIP) Mode from the service menu.

PIP Mode (PIP) Menu Chart (Do Not Adjust)

No.	Adjustment	Range	Initial Value	On set Value
PIP01	BRIGHT	000 ~ 015	000	000
PIP02	PICTURE	000 ~ 075	030	030
PIP03	TINT	000 ~ 063	042	042
PIP04	COLOR	000 ~ 015	006	006
PIP05	R CUTOFF	000 ~ 015	000	000
PIP06	G CUTOFF	000 ~ 015	000	000
PIP07	B CUTOFF	000 ~ 015	000	000
PIP08	R DRIVE	000 ~ 255	063	063
PIP09	G DRIVE	000 ~ 255	065	065
PIP10	B DRIVE	000 ~ 255	065	065
PIP11	L POSI	000 ~ 255	022	022
PIP12	R POSI	000 ~ 255	015	015
PIP13	UPR POSI	000 ~ 127	012	012
PIP14	LWR POSI	000 ~ 127	011	011
PIP15	PICT LCK	000 / 001	001	001
PIP16	SELDEL	000 ~ 015	000	000
PIP17	AGCFIX	000 / 001	001	001
PIP18	AGCADST	000 / 001	000	000
PIP19	AGC	000 ~ 015	007	007
PIP20	BLKINVB	000 / 001	000	000
PIP21	BLKINVR	000 / 001	000	000
PIP22	VSPDEL	000 ~ 031	000	000
PIP23	VSPISQ	000 / 001	001	001
PIP24	RGBIN	000 / 001	000	000
PIP25	FRSEL	000 / 001	001	001
PIP26	OUTFOR	000 / 001	000	000
PIP27	UVPOLAR	000 / 001	000	000
PIP28	MAT	000 / 001	001	001
PIP29	YCOR	000 / 001	001	001
PIP30	XFREQF	000 / 001	001	001
PIP31	WTCHDG	000 / 001	001	001
PIP32	COLON	000 / 001	000	000
PIP33	ACQNEW	000 / 001	000	000
PIP34	DSTDET	000 / 001	001	001
PIP35	CRIBEOK	000 / 001	000	000
PIP36	FCBEOK	000 / 001	000	000
PIP37	NOCRID	000 / 001	000	000
PIP38	NONSED	000 / 001	000	000
PIP39	PIP ADJ	000 ~ 015	005	005
PIP40	BRI EXT	-128 ~ +127	±000	±000
PIP41	PCT EXT	-128 ~ +127	±000	±000
PIP42	TNT EXT	-128 ~ +127	±000	±000
PIP43	COR EXT	-128 ~ +127	±000	±000
PIP44	R-D EXT	-128 ~ +127	±000	±000
PIP45	G-D EXT	-128 ~ +127	±000	±000
PIP46	B-D EXT	-128 ~ +127	±000	±000
PIP47	BRT COMP	-128 ~ +127	±000	±000
PIP48	PCT COMP	-128 ~ +127	±000	±000
PIP49	TNT COMP	000 ~ 063	040	040
PIP50	COR COMP	000 ~ 015	005	005
PIP51	R-D COMP	-128 ~ +127	±000	±000
PIP52	G-D COMP	-128 ~ +127	±000	±000
PIP53	B-D COMP	-128 ~ +127	±000	±000

3L Y / C (LYC) MODE

Select 3L Y / C (LYC) Mode from the service menu.

3L Y / C (LYC) Mode Menu Chart (Do Not Adjust)

No.	Adjustment	Range	Initial Value	On set Value
LYC01	-	000 ~ 007	004	004
LYC02	-	000 ~ 007	001	001
LYC03	-	000 / 001	000	000
LYC04	-	000 / 001	000	000
LYC05	-	000 ~ 015	002	002
LYC06	-	000 / 001	000	000
LYC07	-	000 / 001	001	001
LYC08	-	000 / 001	000	000
LYC09	-	000 / 001	001	001
LYC10	-	000 / 001	000	000
LYC11	-	000 / 001	000	000
LYC12	-	000 / 001	000	000

LOW LIGHT MODE

Select Low Light from service menu.

Low Light Mode Menu Chart

Adjustment	Range	Initial Value	On set Value
BRIGHT	0 ~ 127	064	064
R CUTOFF	0 ~ 255	030	036
G CUTOFF	0 ~ 255	030	053
B CUTOFF	0 ~ 255	030	084

NOTE: While in the Low Light Mode, adjustments are performed using the following buttons on the remote transmitter:

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

White Balance (Low Light Mode Adjustment)

Tune in a black and white signal. Press 1 to display a horizontal line. Adjust the screen control for a dim line of one dominant color. Adjust the two cutoffs for a dim white line. Press 2 for a full picture.

HIGH LIGHT MODE

Select High Light from service menu.

High Light Menu Chart

Adjustment	Range	Initial Value	On set Value
R DRIVE	0 ~ 127	064	076
B DRIVE	0 ~ 127	064	072

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

- 1 - Horizontal line.
2 - Restores full picture.
3 – Exit.
- 4 - Increase red drive.
6 - Increase blue drive.
- 7 - Decrease red drive.
9 - Decrease blue drive.

White Balance (High Light Mode Adjustment)

Tune in a black and white signal. Press 1 to display a horizontal line. Adjust the red and blue drives for best white balance. Exit service menu and check white balance at high and low brightness.

OTHERS (F) MODE

Select Others (F) Mode from the service menu.

Others (F) Mode Menu Chart (Do Not Adjust)

No.	Adjustment	Range	Initial Value	On set Value
F01	-	000 ~ 255	037	037
F02	-	000 ~ 255	090	090
F03	-	000 ~ 255	045	047
F04	-	000 ~ 255	093	092
F05	-	000 ~ 063	007	007
F06	-	000 / 001	000	000
F07	-	000 ~ 063	002	002
F08	-	000 ~ 002	000	000
F09	-	000 ~ 255	005	005
F10	-	000 ~ 255	005	005
F11	-	000 ~ 255	016	016
F12	-	000 ~ 063	032	032
F13	-	000 ~ 255	003	003
F14	-	000 ~ 255	005	005
F15	-	000 ~ 063	000	000
F16	-	000 ~ 063	010	010
F17	-	000 ~ 063	020	020
F18	-	000 ~ 255	002	002
F19	-	-128 ~ +127	+008	+008
F20	-	-128 ~ +127	-004	-004
F21	-	-128 ~ +127	-010	-010
F22	-	-128 ~ +127	-016	-016
F23	-	000 / 001	000	000
F24	-	000 ~ 002	000	000
F25	-	000 ~ 255	255	255
F26	-	000 ~ 255	040	040
F27	-	000 ~ 255	015	015
F28	-	000 / 001	001	001

RF AFC MODE

Select RF AFC from the service menu.

RF AFC Mode Menu Chart For Main Tuner

Adjustment	Range	Initial Value	On-set Value
RF AFC	On / Off	On	On, Do not adjust.
Fine	-77 ~ +77	±00	±00, Do not adjust.

RF AFC Mode Menu Chart For Sub Tuner

Adjustment	Range	Initial Value	On-set Value
RF AFC	On / Off	On	On, Do not adjust.
Fine	-77 ~ +77	±00	±00, Do not adjust.

I²C BUS MODE

Select I²C Bus from the service menu.

I²C Bus Mode Menu Chart

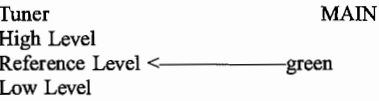
Adjustment	Range	Initial Value	On-set Value
I ² C BUS	On / Off	On	On, Fixed On. Do not adjust.

MISCELLANEOUS ADJUSTMENTS continued

VCO MODE

Select VCO from service menu.

VCO Mode Menu Chart



SYNC: YES

Tune in an NTSC signal without offset frequency. Push Menu button, and select the VCO mode. Adjust T111 and confirm that High Level and Low Level turns green. Adjust T111 until Reference Level turns green and "SYNC: YES" appears on screen.

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.

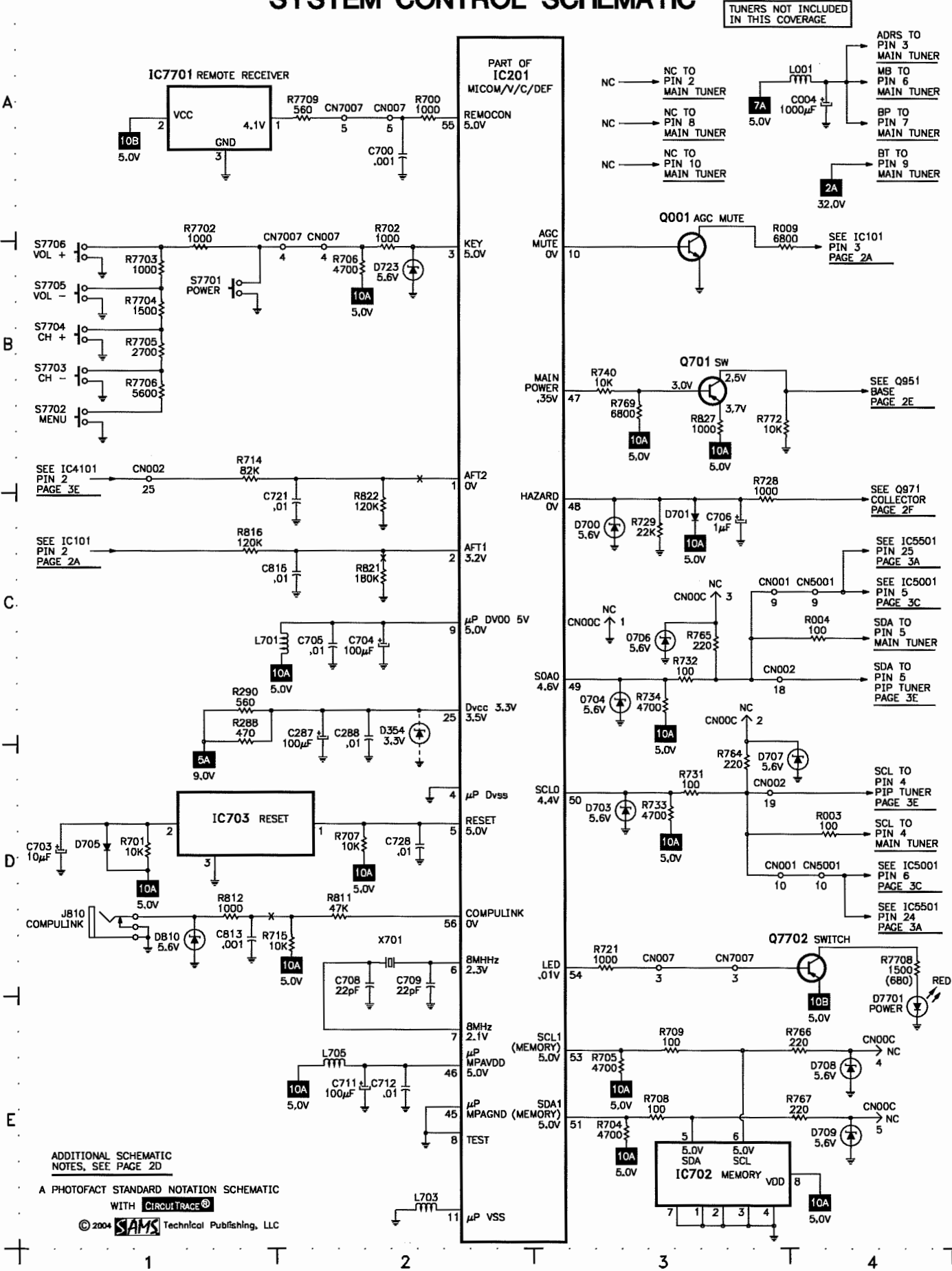
- NTE Electronics, Inc. (NTE)
- Sencore, Inc.

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

SYSTEM CONTROL SCHEMATIC



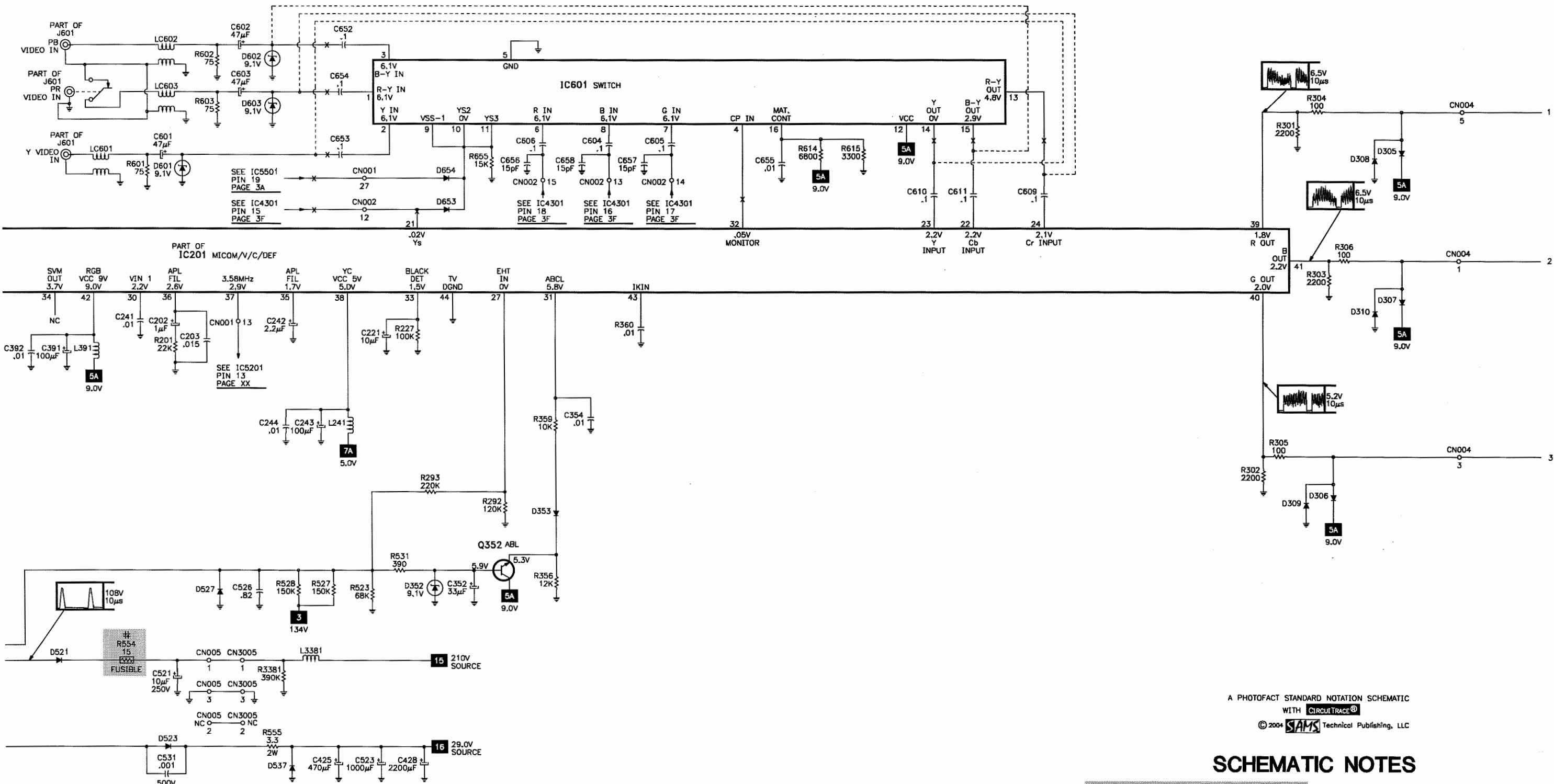
JVC MODEL AV-36D503/M

B

C

E

TELEVISION SCHEMATIC continued



A PHOTOFAC STANDARD NOTATION SCHEMATIC
WITH CIRCUITTRACE®
© 2004 SAMS Technical Publishing, LLC

SCHEMATIC NOTES

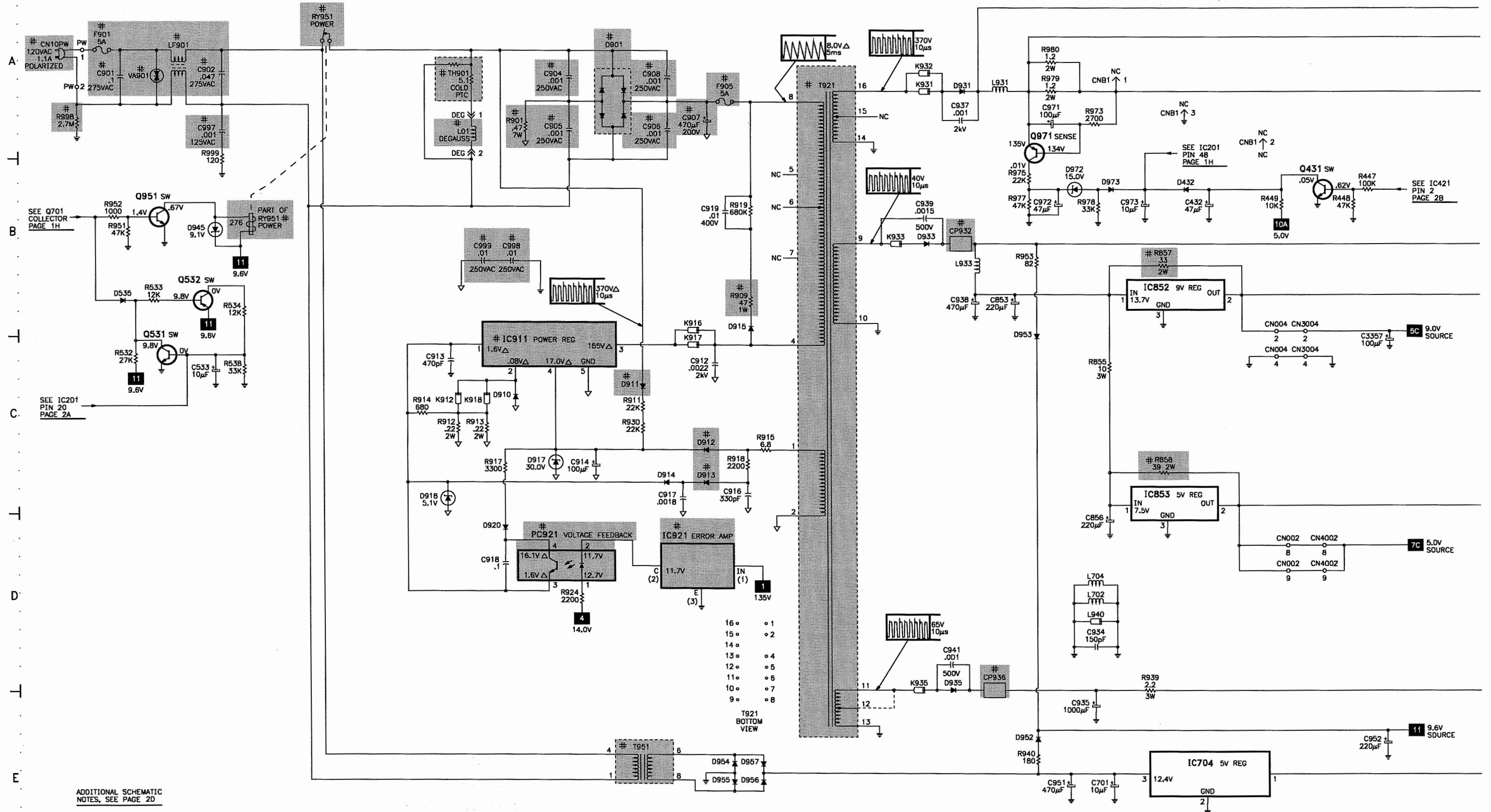
- # For SAFETY use only equivalent replacement part, see parts list.
- Circuitry not used in some versions.
- - - Circuitry used in some versions.
- ⊥ Ground
- ⏏ Chassis ground
- ⏏ Common tie point
- Δ Taken from common tie point
- 3 Schematic CIRCUITTRACE® Voltage source tie point.
- A Cabling; Heavy 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.
- 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.

E

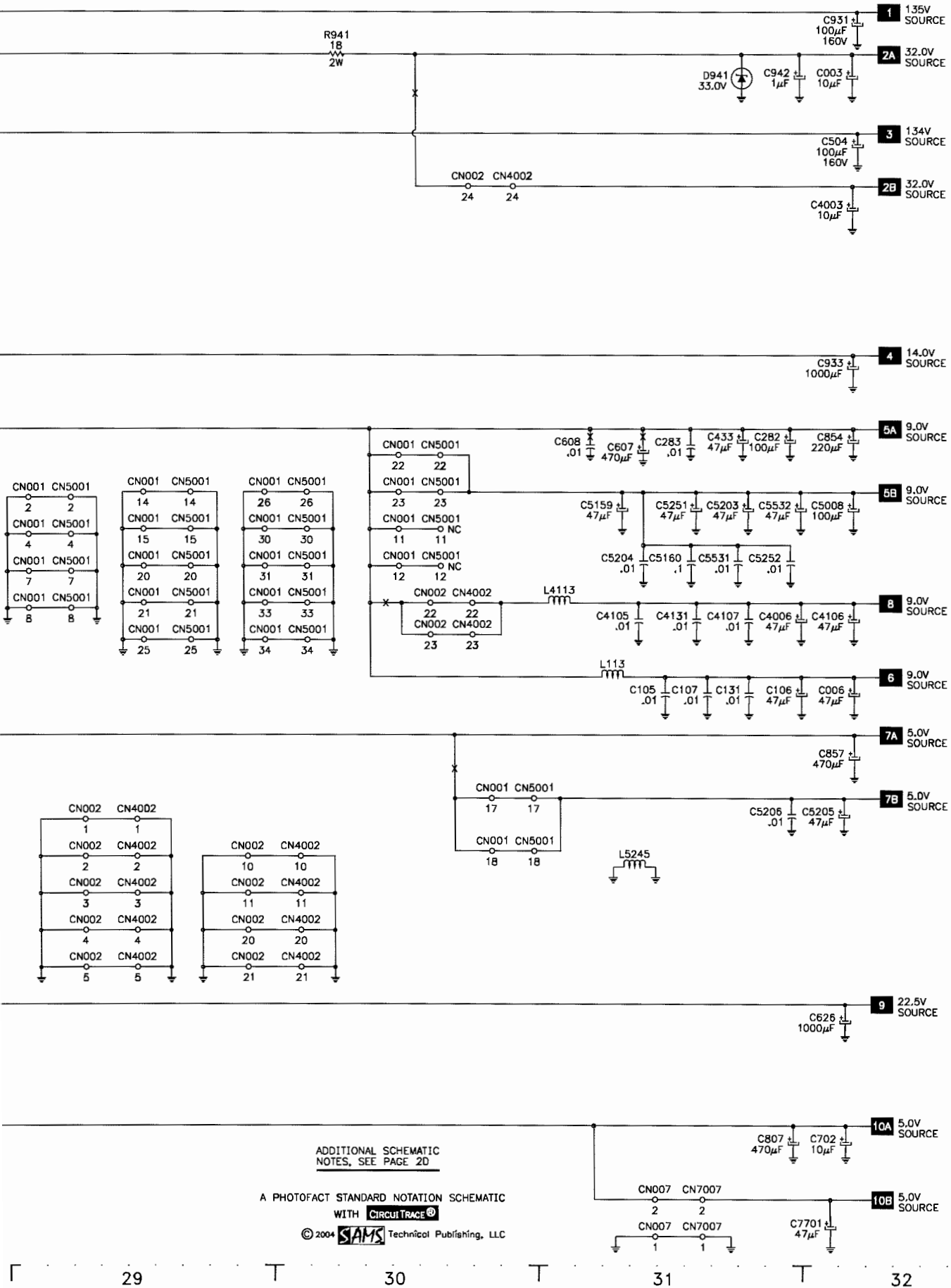
△ TAKEN FROM COMMON TIE POINT ↓

POWER SUPPLY SCHEMATIC

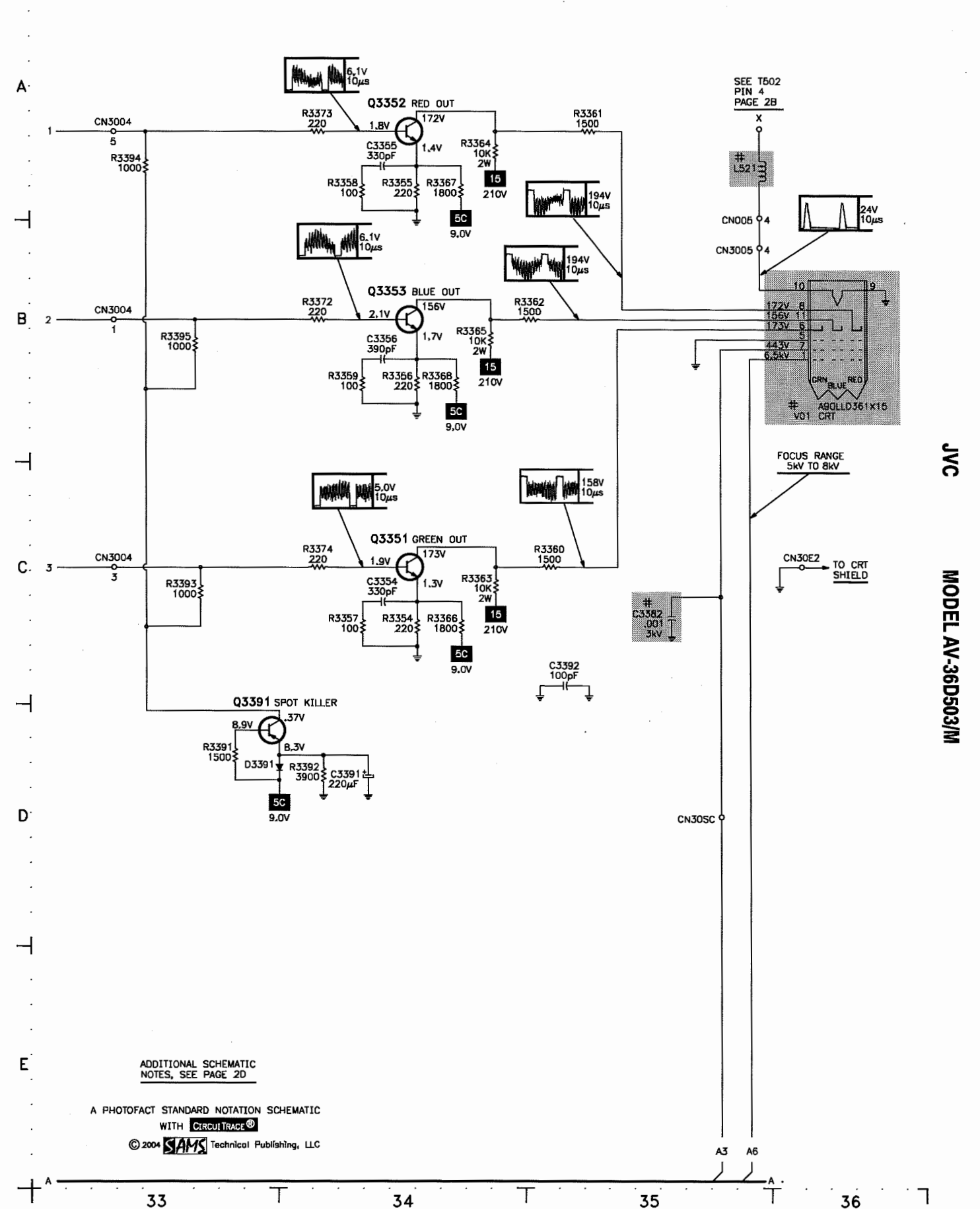
F



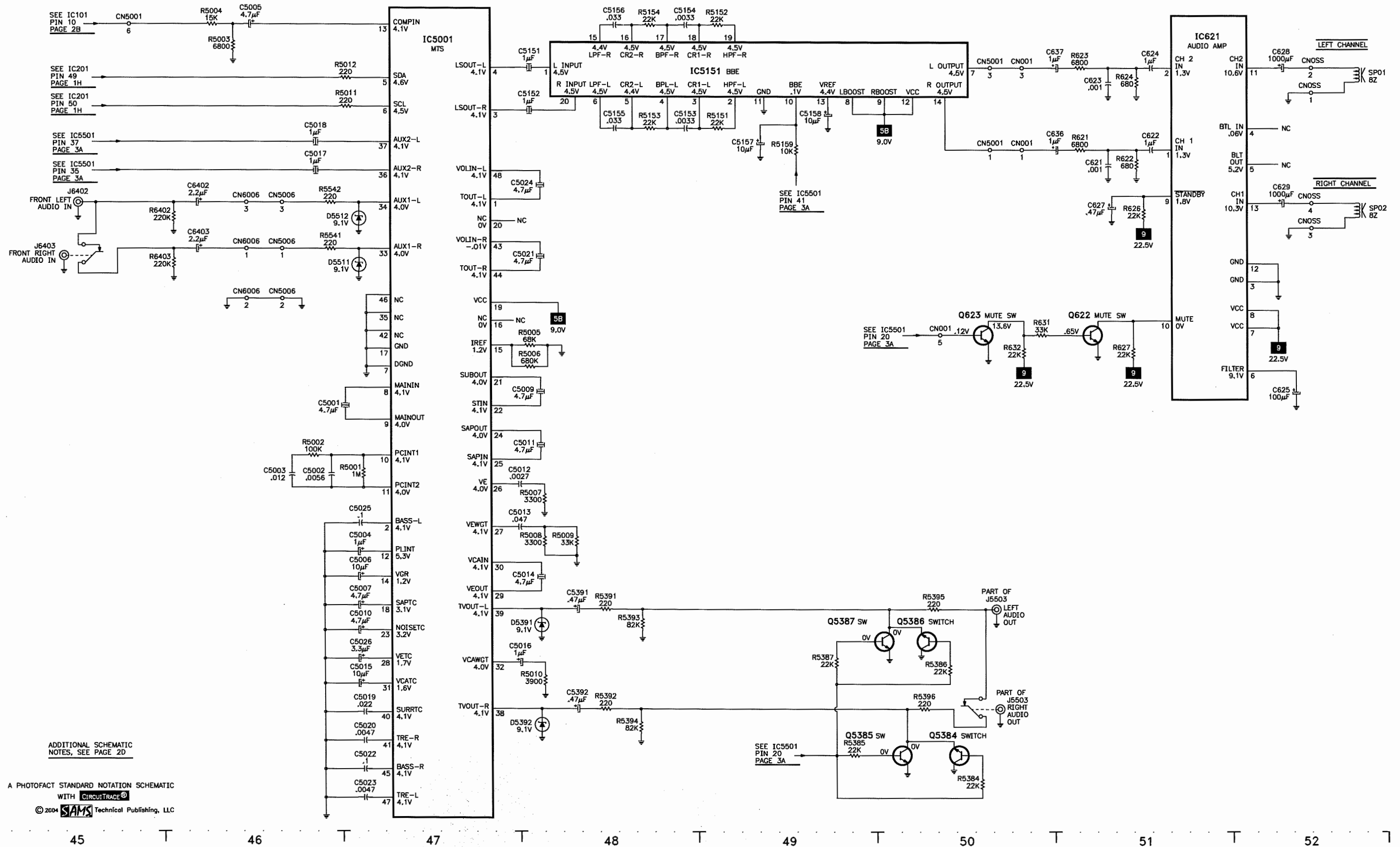
POWER SUPPLY SCHEMATIC continued



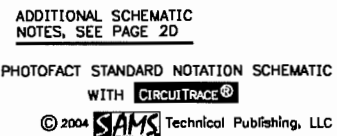
CRT SCHEMATIC



AUDIO SCHEMATIC



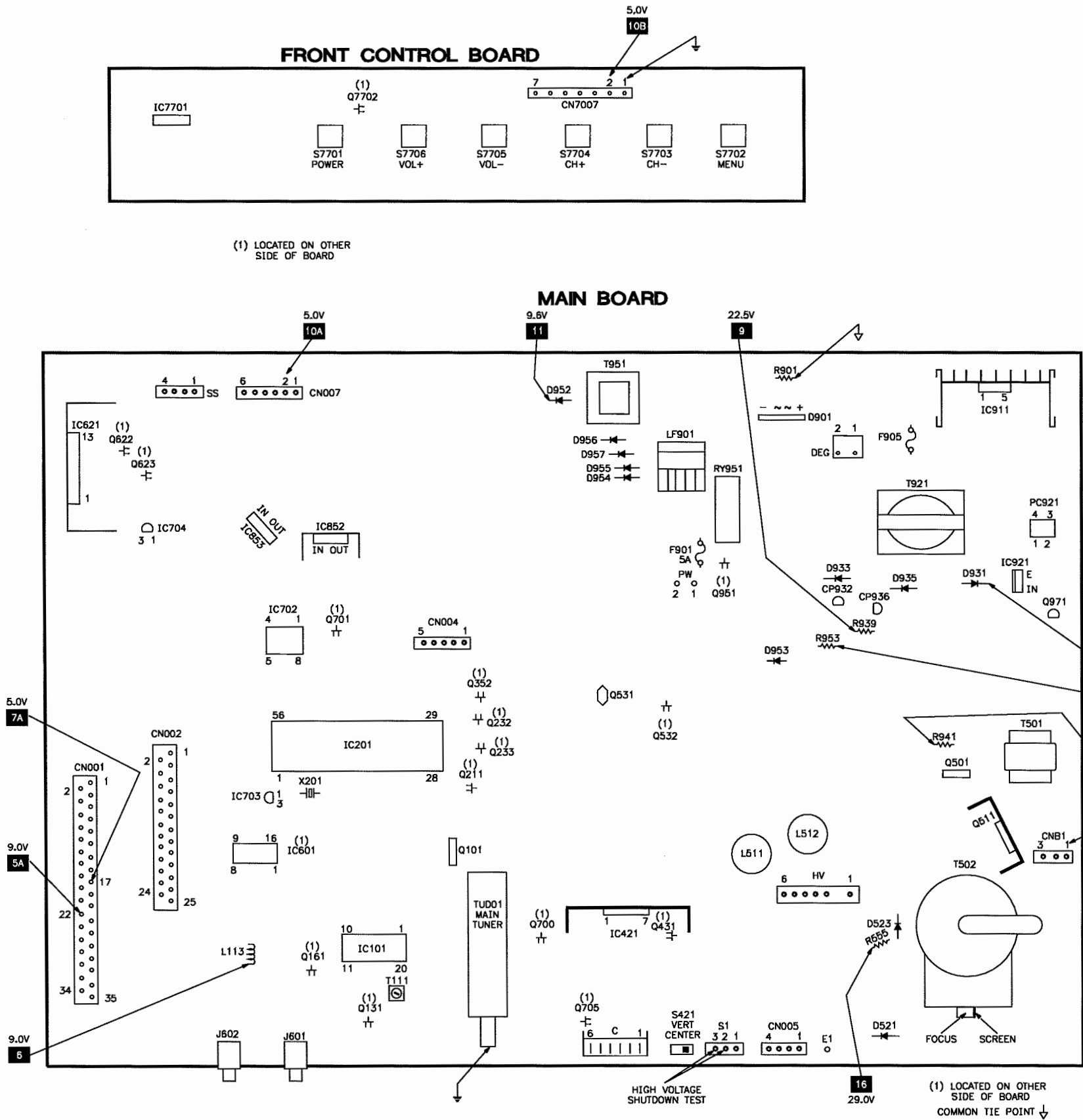
F



SCHEMATIC COMPONENT LOCATION GUIDE

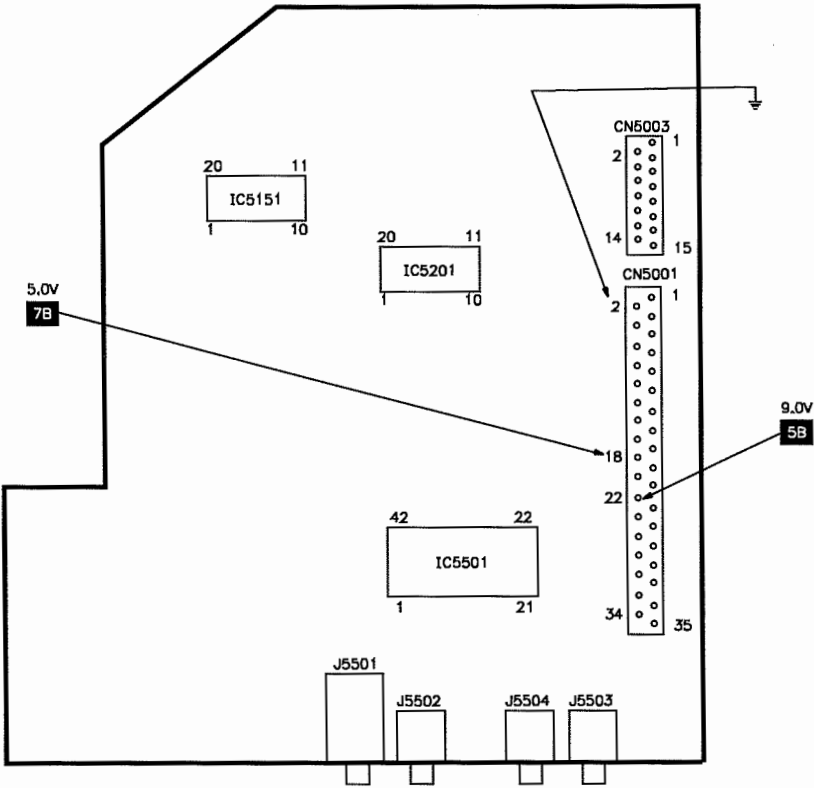
C001	C5	C502	E8	C728	D2	C4116	B57	C5155	B48	CP936	E26	D954	E24	J5503	E50	Q232	C11	R135	B9	R523	D14	R764	D3	R3374	C34	R5211	A40	R5545	E38
C003	A32	C503	E8	C807	E31	C4117	C57	C5156	A48	D305	B20	D955	E24	J6401	D37	Q233	B11	R161	A10	R526	D6	R765	C3	R3381	D14	R5212	A40	R5546	C39
C004	A4	C504	A32	C813	D1	C4118	C57	C5157	B49	D306	C19	D956	E25	J6402	B45	Q352	D15	R163	C7	R527	D14	R766	E3	R3391	D33	R5213	A40	R6401	D37
C006	C32	C507	E10	C815	C2	C4119	C57	C5158	A49	D307	B20	D957	E25	J6403	B45	Q431	B28	R164	B7	R528	D14	R767	E3	R3392	D34	R5214	A40	R6402	B46
C101	B5	C508	E10	C853	B26	C4120	C56	C5159	C31	D308	B19	D972	B26	K401	D9	Q501	E8	R165	A8	R529	D6	R769	B3	R3393	C33	R5215	A40	R6403	B46
C102	B5	C510	E9	C854	B32	C4124	B56	C5160	C31	D309	C19	D973	B26	K912	C23	Q511	E9	R166	A8	R531	D14	R772	B3	R3394	A33	R5216	A41	R7702	B1
C104	B6	C513	E10	C856	D26	C4131	C31	C5203	C31	D310	B19	D3391	D33	K916	C24	Q531	C21	R167	A9	R532	C21	R775	E55	R3395	B33	R5217	A40	R7703	B1
C105	C31	C514	E10	C857	D32	C4132	B57	C5204	C31	D352	D15	D4301	D57	K917	C24	Q532	B21	R168	A9	R533	B21	R776	E55	R4001	B54	R5241	C41	R7704	B1
C106	C32	C515	E10	C901	A21	C4161	B56	C5205	D32	D353	C15	D5391	D48	K918	C23	Q541	E6	R169	A9	R534	B22	R811	D2	R4002	A54	R5242	D41	R7705	B1
C107	C31	C516	D10	C902	A22	C4168	B55	C5206	D31	D354	D2	D5392	E48	K931	A25	Q542	E7	R171	C7	R535	E6	R812	D1	R4003	B53	R5243	D41	R7706	B1
C113	C7	C521	D13	C904	A23	C4312	C58	C5211	A39	D421	D8	D5501	B38	K932	A25	Q543	E7	R201	B13	R537	E6	R816	C1	R4004	B53	R5251	A42	R7708	D4
C114	B6	C523	E14	C905	A23	C4313	C58	C5212	A40	D422	D9	D5502	C38	K933	B25	Q622	C51	R212	B11	R538	C22	R821	C2	R4008	B54	R5253	A43	R7709	A2
C116	B7	C525	E6	C906	A24	C4314	C59	C5213	A40	D432	B27	D5503	B38	K935	E25	Q623	C50	R215	B11	R543	E6	R822	C2	R4101	A55	R5254	A43	RY951	A22
C117	C7	C526	D14	C907	A24	C4315	C59	C5214	A41	D501	E10	D5504	B38	L001	A3	Q700	D55	R216	B11	R544	E7	R827	B3	R4102	A54	R5255	A43	RY951	B22
C118	C7	C527	E6	C908	A24	C4316	A58	C5215	A41	D502	E10	D5505	A38	L01	A23	Q701	B3	R217	B12	R545	E7	R855	C26	R4103	A55	R5258	A42	S421	E10
C119	B7	C531	E13	C912	C24	C4317	A58	C5226	A41	D521	D13	D5507	A38	L101	B6	Q705	E56	R227	B15	R546	E6	R857	B27	R4104	B55	R5259	A42	S7701	B1
C120	B7	C533	C22	C913	C23	C4318	A58	C5231	B41	D523	E13	D5508	C38	L113	C31	Q951	B21	R231	B11	R547	E6	R858	C27	R4105	B55	R5261	B42	S7702	B1
C124	B6	C601	B13	C914	C24	C4319	D59	C5232	B41	D525	E6	D5509	C38	L131	B9	Q971	B26	R237	B11	R548	E7	R901	A23	R4111	A56	R5262	B42	S7703	B1
C131	C31	C602	A14	C916	C24	C4320	D59	C5233	B41	D526	D6	D5510	C38	L161	A7	Q3351	C34	R238	C11	R553	E7	R909	B24	R4113	B55	R5263	B42	S7704	B1
C161	A10	C603	A14	C917	C24	C4321	D59	C5234	C41	D527	D14	D5511	B47	L232	B11	Q3352	A34	R241	B11	R554	D13	R911	C24	R4114	B56	R5265	B43	S7705	B1
C163	A7	C604	A16	C918	D23	C4322	D59	C5235	C41	D529	D6	D5512	B47	L241	C14	Q3353	B34	R243	B11	R555	E14	R912	C23	R4115	A57	R5269	B43	S7706	B1
C164	A8	C605	A16	C919	B24	C4323	D59	C5236	C42	D531	D6	D5513	D38	L391	C13	Q3391	D33	R281	D8	R601	B13	R913	C23	R4116	C56	R5270	B43	SF101	B6
C165	A8	C606	A15	C931	A32	C4324	D59	C5237	C42	D535	B21	D7701	E4	L511	D10	Q4101	A55	R282	D5	R602	A14	R914	C23	R4117	B55	R5384	E50	SF4101	A55
C166	A9	C607	B31	C933	B32	C4325	C59	C5238	B42	D537	E14	F901	A21	L512	E10	Q4131	B57	R283	D7	R603	A14	R915	C25	R4118	B54	R5385	E49	SP01	A52
C202	B13	C608	B31	C934	D26	C4326	B58	C5239	B42	D601	B13	F905	A24	L521	A35	Q4301	D57	R286	D6	R614	B17	R917	C23	R4120	B55	R5386	E50	SP02	B52
C203	B14	C609	B18	C935	E26	C4327	C59	C5240	C41	D602	A14	FR525	E6	L701	C2	Q4302	E57	R287	D6	R615	B17	R918	C24	R4121	B56	R5387	E49	T111	B7
C211	B11	C610	B17	C937	A26	C4328	C59	C5241	C41	D603	A14	FR527	E6	L702	D26	Q4303	D57	R288	D1	R621	B51	R919	C24	R4131	B57	R5391	D48	T501	E8
C212	A11	C611	B17	C938	B26	C4329	C59	C5242	B42	D653	B15	IC101	A10	L703	E2	Q5211	A40	R289	D5	R622	B51	R924	D24	R4132	B57	R5392	E48	T502	C11
C221	B14	C621	B51	C939	B25	C4330	C59	C5243	B42	D654	B15	IC101	B7	L704	D26	Q5212	A41	R290	C1	R623	A51	R930	C24	R4133	B57	R5393	D48	T921	A25
C222	B12	C622	B51	C941	D26	C4331	D58	C5246	C41	D700	C3	IC201	A2	L705	E2	Q5251	A43	R292	C15	R624	A51	R939	E27	R4134	B57	R5394	E48	T951	E24
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C237	B12	C625	C52	C952	E28	C5003	C46	C5252	C31	D704	C3	IC421	C8	L940	D26	Q5261	B42	R302	C19	R631	C50	R951	B21	R4163	C55	R5501	B38	TU4001	A54
C241	B13	C626	E32	C971	A26	C5004	D47	C5255	A43	D705	D1	IC601	A15	L3381	D14	Q5262	B43	R303	B19	R632	C50	R952	B21	R4171	C56	R5502	C38	V01	B36
C242	B14	C627	B51	C972	B26	C5005	A46	C5263	B43	D706	C3	IC621	A51	L4001	A53	Q5263	B44	R304	A19	R655	B15	R953	B26	R4301	D57	R5503	B38	VA901	A21
C243	C14	C628	A52	C973	B27	C5006	D47	C5391	D48	D707	D3	IC702	E3	L4101	A55	Q5384	E50	R305	C19	R700	A2	R973	A26	R4303	D58	R5504	B38	X	D11
C244	C14	C629	B52	C997	A22	C5007	D47	C5392	E48	D708	E4	IC703	D1	L4113	C31	Q5385	E50	R306	B19	R701	D1	R975	B26	R4304	E57	R5505	A38	X701	D2
C281	D7	C636	B50	C998	B23	C5008	C32	C5501	B38	D709	E4	IC704	E27	L4131	B57	Q5386	D50	R356	D15	R702	B2	R977	B26	R4306	E58	R5507	A38	X4301	C58
C282	B31	C637	A50	C999	B23	C5009	C48	C5502	C38	D716	C12	IC852	B27	L4302	C59	Q5387	D49	R359	C15	R704	E3	R978	B26	R4307	D56	R5508	A38		
C283	B31	C652	A14	C3354	C34	C5010	D47	C5503	B38	D721	D55	IC853	C27	L4303	D59	Q7702	D3	R360	B16	R705	E3	R979	A26	R4309	D57	R5509	A38		
C284	D5	C653	B14	C3355	A34	C5011	C48	C5504	B38	D722	E56	IC911	C23	L4304	D59	R003	D4	R421	D8	R706	B2	R980	A26	R4311	C58	R5510	C38		
C285	D5	C654	A14	C3356	B34	C5012	D47	C5506	C38	D723	B2	IC921	D24	L5202	A43	R004	C4	R423	D8	R707	D2	R998	A21	R4313	D58	R5511	C38		
C286	D5	C655	B16	C3357	C28	C5013	D47	C5508	A37	D810	D1	IC4101	A56	L5211	A40	R008	B5	R424	D9	R708	E3	R999	B22	R4316	B59	R5512	C38		
C287	D2	C656	B15	C3382	C35	C5014	D48	C5509	A37	D901	A24	IC4301	A58	L5241	B41	R009	B3	R426	D8	R709	E3	R3354	C34	R5001	C47	R5513	D38		
C288	D2	C657	B16	C3391	D34	C5015	E47	C5520	C38	D910	C23	IC5001	A47	L5242	C42	R101	B5	R427	E8	R714	C1	R3355	A34	R5002	C46	R5514	C39		
C352	D15	C658	B15	C3392	D35	C5016	E47	C5521	C38	D911	C24	IC5151	A49	L5243	B42	R102	B5	R429	D8	R715	D2	R3356	B34	R5003	A46	R5515	D39		
C354	C15	C700	A2	C4001	B54	C5017	B46	C5531	C31	D912	C24	IC5201	A41	L5244	B42	R103	B6	R431	D9	R716	B12	R3357	C34	R5004	A46	R5516	D39		
C391	C13	C701	E26	C4003	B32	C5018	B46	C5532	C32	D913	C24	IC5501	A39	L5245	D31	R104	B6	R432	D9	R718	C12	R3358	A34	R5005	C47	R5517	C39		
C392	C13	C702	E32	C4004	A53	C5019	E47	C5533	D39	D914	C24	IC7701	A1	L5261	B43	R105	B6	R433	D9	R721	D3	R3359	B34	R5006	C47	R5519	A37		
C422	D8	C703	D1	C4006	C32	C5020	E47	C5534	E39	D915	C24	J601	A13	LC601	B13	R111	B6	R434	D9	R728	C3	R3360	C35	R5007	D48	R5520	A37		
C424	D8	C704	C2	C4010	C54	C5021	B48	C6401	D37	D917	C23	J601	A13	LC602	A13	R112	B5	R435	D9	R729	C3	R3361	A35	R5008	D48	R5521	B37		
C425	E14	C705	C2	C4011	B54	C5022	E47	C6402	B46	D918	C23	J810	D1	LC603	A13	R113	C6	R447	B28	R731	D3	R3362	B34	R5009	D48	R5522	B37		
C427	D9	C706	C3	C4101	A54	C5023	E47	C6403	B46	D920	D23	LF901	A21	LC6401	D37	R115	B5	R448	B28	R732	C3	R3363	C34	R5010	E48	R5523	C37		
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PLACEMENT CHART

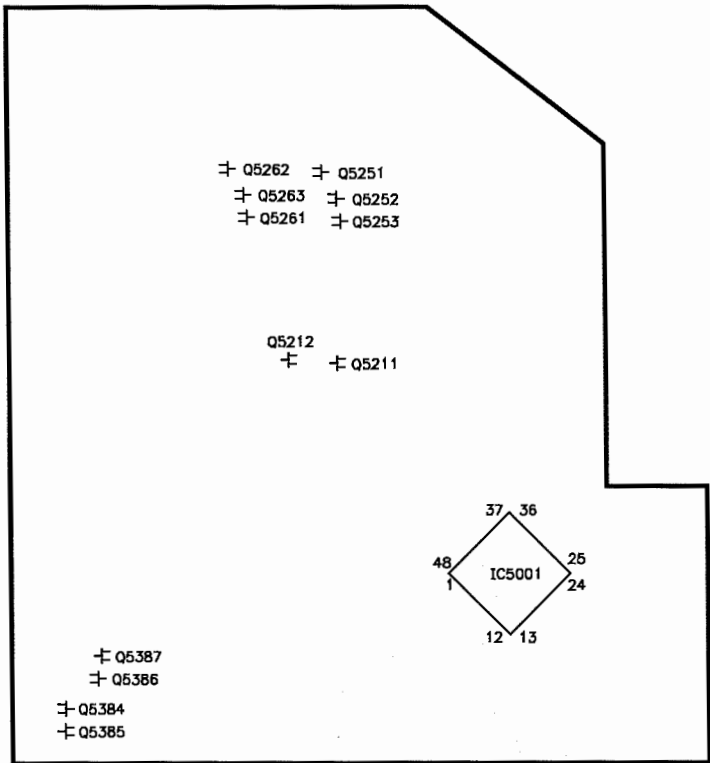


PLACEMENT CHART continued

A/V SELECTOR BOARD - TOP VIEW

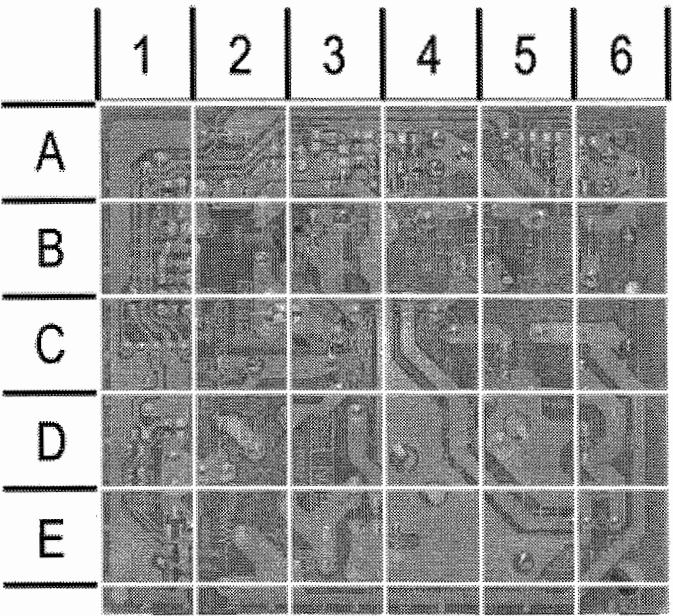


A/V SELECTOR BOARD - BOTTOM VIEW



(1) LOCATED ON BOTTOM OF BOARD

CRT BOARD



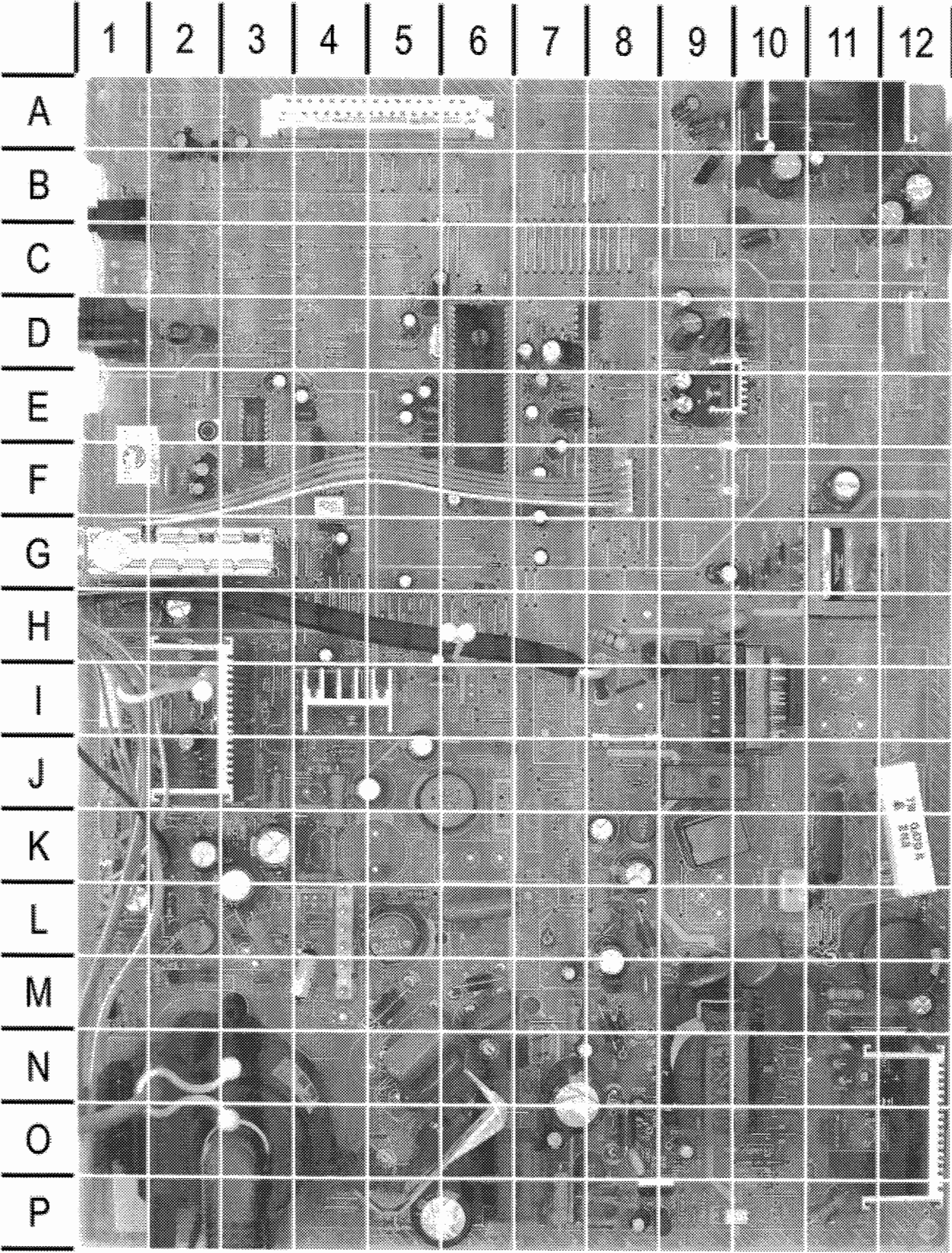
A SAMS Technical Publishing, LLC GridTrace™ PHOTO

CRT BOARD, GRIDTRACE LOCATION GUIDE

C3354	E1	Q3352*	A4	R3362*	B5	R3391	A1
C3355	A3	Q3353*	A6	R3363*	E2	R3392	B2
C3356	A5	Q3391*	B1	R3364*	B5	R3393	C1
C3357*	C1	R3354	E1	R3365*	B6	R3394	C1
C3382*	B2	R3355	A3	R3366	D1	R3395	C2
C3391*	A2	R3356	A5	R3367	A3	SK351*	C4
C3392	A3	R3357	E1	R3368	A5		
CN3004*	C1	R3358	A3	R3372	A6		
D3391*	B1	R3359	A5	R3373	A4		
L3381*	C6	R3360*	D2	R3374	D1		
Q3351*	D1	R3361*	B4	R3381*	D5		

* Located on other side of board.

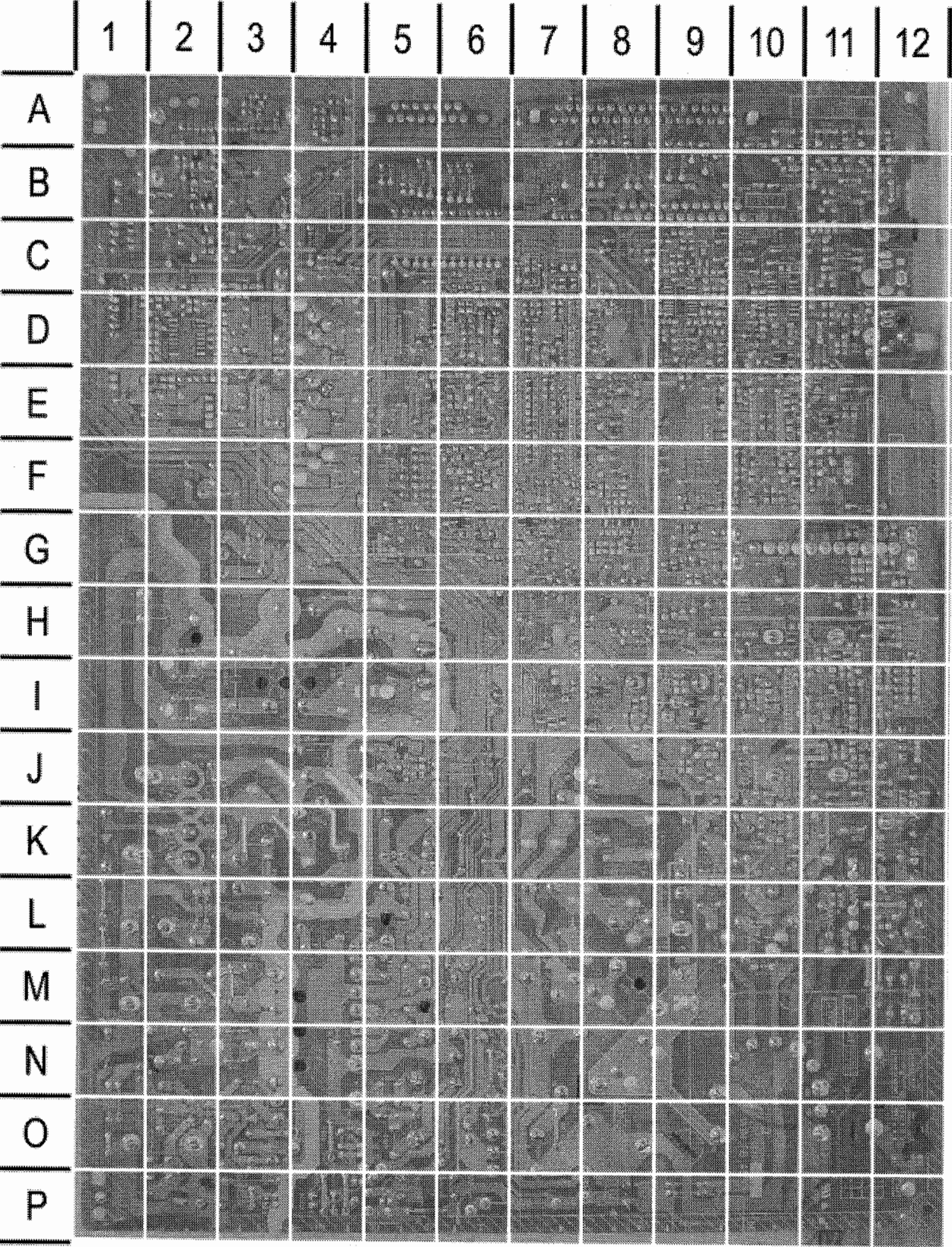
MAIN BOARD - TOP VIEW



MAIN BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE

B1	P5	C515	L6	C919	M10	D527	L1	D955	G10	L512	J6	R855	C9
C	I1	C516	L5	C931	N7	D529	K3	D956	G10	L521	L2	R857	E10
C001	H1	C521	L1	C933	K8	D531	J1	D957	G10	L701	C5	R858	D10
C003	H3	C523	L3	C935	M8	D535	I6	D972	O9	L702	D5	R901	K12
C004	H2	C525	K1	C937	O8	D537	K2	D973	O9	L704	D8	R909	M11
C006	G4	C526	L1	C938	K8	D601	D2	DEG	K10	L705	E7	R911	L12
C106	E3	C527	L4	C939	L9	D602	A3	F901	I8	L931	O8	R912	P11
C116	E4	C531	M3	C941	M8	D603	A2	F905	L11	L933	K8	R913	P11
C117	F2	C533	H5	C942	M7	D653	C5	FR525	L2	L940	L7	R914	O11
C120	F2	C601	D2	C951	F11	D654	C5	FR527	M4	LC601	D2	R915	O10
C161	E4	C602	A3	C952	G9	D700	E7	HV	M4	LC602	A2	R917	O11
C202	F7	C603	A2	C971	P8	D701	E7	IC101	F3	LC603	A2	R918	O10
C211	G5	C609	F5	C972	O9	D703	D7	IC201	D6	LF901	I10	R919	M11
C221	F7	C610	E5	C973	N8	D704	D7	IC421	I3	PC921	P10	R924	P9
C222	F5	C611	E5	C997	H9	D705	C5	IC621	A10	PW	I8	R930	M12
C242	E7	C625	A10	C998	M9	D706	I1	IC702	D8	Q101	G4	R939	L8
C243	F7	C626	B10	C999	M10	D707	I1	IC703	D5	Q501	N7	R940	F11
C281	E5	C627	B11	CF001	G4	D708	J1	IC704	B10	Q511	O5	R941	M7
C282	E5	C628	B12	CF131	F2	D709	H1	IC852	E9	Q531	I6	R953	K7
C284	E5	C629	B12	CF161	E2	D716	C7	IC853	D9	Q543	I4	R973	P8
C286	E5	C701	B9	CN001	A6	D721	H3	IC911	N12	Q971	P9	R975	P9
C287	F6	C702	C10	CN004	F8	D722	I1	IC921	P8	R103	F4	R977	O9
C352	G7	C703	C5	CN005	K1	D723	C6	J601	D1	R427	J3	R979	P8
C391	E7	C704	D5	CN007	D12	D810	B1	J810	B1	R434	K4	R980	P8
C422	J3	C706	E7	D305	F8	D901	K11	K401	K4	R435	J1	R998	H8
C424	J2	C711	E7	D306	F8	D910	O12	K912	P12	R503	N7	R999	H9
C425	K2	C716	D7	D307	F8	D911	K12	K916	N11	R504	P6	RY951	J9
C427	J1	C807	D7	D308	F8	D912	O10	K917	N11	R505	P7	S1	J1
C428	K3	C853	E9	D309	F8	D913	O10	K918	P12	R511	O6	S421	J1
C431	K4	C854	E9	D310	F8	D914	O10	K931	N8	R512	L5	SF101	F4
C432	J2	C856	D9	D352	G6	D915	M11	K932	O8	R523	L1	SS	C12
C433	H4	C857	D9	D353	G7	D917	N12	K933	M8	R526	K3	T111	E2
C440	I2	C901	I9	D354	F6	D918	P10	K935	N8	R527	M2	T501	O7
C501	O7	C902	I10	D421	I2	D920	P10	L001	H2	R528	M2	T502	O3
C502	N7	C904	J11	D422	K4	D931	O8	L101	F4	R531	G6	T921	N9
C503	O7	C905	J11	D432	H4	D933	L8	L113	D3	R543	I4	T951	G11
C504	P6	C906	K11	D501	M5	D935	M8	L131	F2	R544	I4	TH901	K9
C507	J5	C907	L12	D502	M6	D941	E2	L161	E2	R545	J4	TU001	G2
C508	J5	C908	K11	D521	M1	D945	J8	L232	F6	R548	J4	VA901	H8
C510	N5	C912	N11	D523	L3	D952	F11	L241	E8	R553	J4	X701	D5
C513	N5	C913	O11	D525	L2	D953	K7	L391	F8	R554	L1		
C514	M6	C914	M12	D526	L3	D954	G10	L511	L5	R555	L3		

MAIN BOARD - BOTTOM VIEW

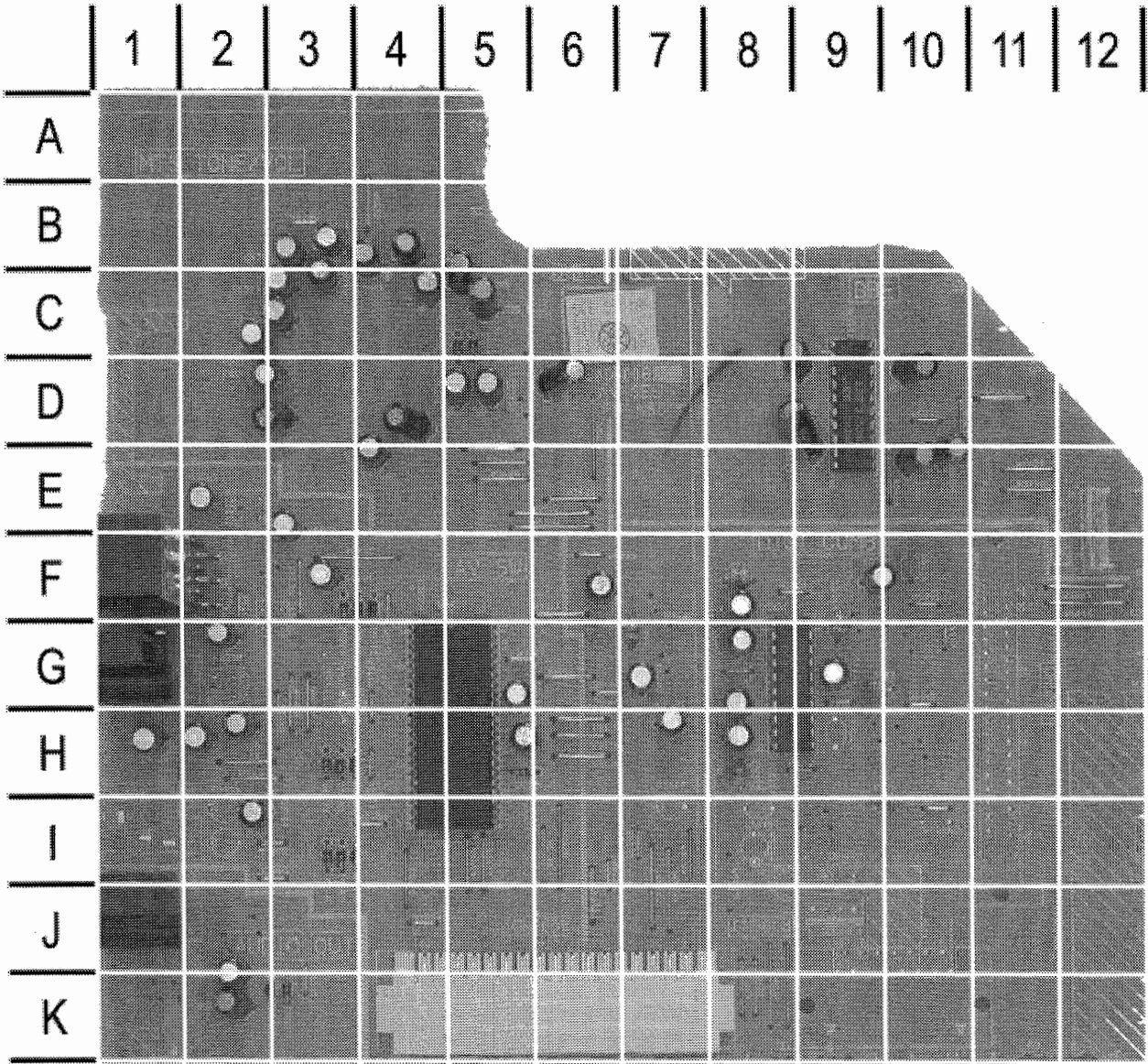


MAIN BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE													
C101	G9	C607	C4	Q161	D10	R132	F11	R290	E7	R546	I9	R729	D7
C102	F9	C608	C9	Q211	G8	R133	E11	R292	F7	R547	I9	R731	D5
C104	F9	C621	A4	Q232	G7	R134	F11	R293	F7	R601	D11	R732	D5
C105	G9	C622	A3	Q233	F8	R135	E11	R301	E7	R602	B10	R733	D6
C107	E10	C623	A3	Q352	G6	R161	E10	R302	E7	R603	B11	R734	D6
C113	F10	C624	A3	Q431	J11	R163	E10	R303	E7	R614	D9	R737	G9
C114	F10	C652	C10	Q532	I8	R164	E10	R304	F6	R615	D9	R740	E6
C118	E10	C653	C10	Q541	I9	R165	D10	R305	F6	R621	A4	R754	G9
C119	F10	C654	C10	Q542	I9	R166	D10	R306	F6	R622	A4	R755	H10
C124	E10	C655	D8	Q622	B2	R167	D10	R356	G6	R623	A4	R756	H10
C131	E11	C656	C9	Q623	B2	R168	D11	R359	F7	R624	A3	R764	I12
C163	E10	C657	C9	Q700	H11	R169	D11	R360	E7	R626	A2	R765	I12
C164	E11	C658	C9	Q701	E5	R171	E10	R421	H10	R627	B2	R766	I12
C165	D11	C700	D7	Q705	I12	R201	F6	R423	I11	R631	B2	R767	I12
C166	D10	C705	D8	Q951	J5	R212	G8	R424	L11	R632	B2	R769	E6
C203	E7	C708	D8	R003	G11	R215	G8	R426	J10	R655	C8	R772	E5
C212	G8	C709	D8	R004	G11	R216	G7	R429	E7	R700	D7	R775	I11
C223	G6	C712	D7	R008	G9	R217	G8	R431	I10	R701	C7	R776	H10
C233	G7	C721	B7	R009	G12	R227	F7	R432	I10	R702	C7	R811	D7
C237	F8	C726	I10	R101	G9	R231	G6	R433	I10	R704	D6	R812	C7
C241	F7	C728	D8	R102	G9	R237	F7	R447	J11	R705	C6	R816	C7
C244	E7	C813	D7	R104	F9	R238	G7	R448	J11	R706	C7	R821	D7
C283	E8	C815	D7	R105	F9	R241	G6	R449	H8	R707	C8	R822	D7
C285	E8	C916	O4	R111	F10	R243	F8	R502	M6	R708	D6	R827	E6
C288	F7	C917	O3	R112	F10	R281	E7	R529	K10	R709	C6	R951	J5
C354	F7	C918	P3	R113	F10	R282	E8	R532	I7	R714	B7	R952	J5
C392	E7	C934	K5	R115	F10	R283	D7	R533	I8	R715	C7	R978	O4
C435	E7	IC601	D9	R116	F10	R286	E7	R534	I7	R716	C6		
C604	C9	L703	D8	R117	F10	R287	E7	R535	K12	R718	C6		
C605	C9	Q001	H12	R118	F10	R288	E7	R537	J12	R721	C7		
C606	C9	Q131	E11	R131	F11	R289	E8	R538	H7	R728	D6		

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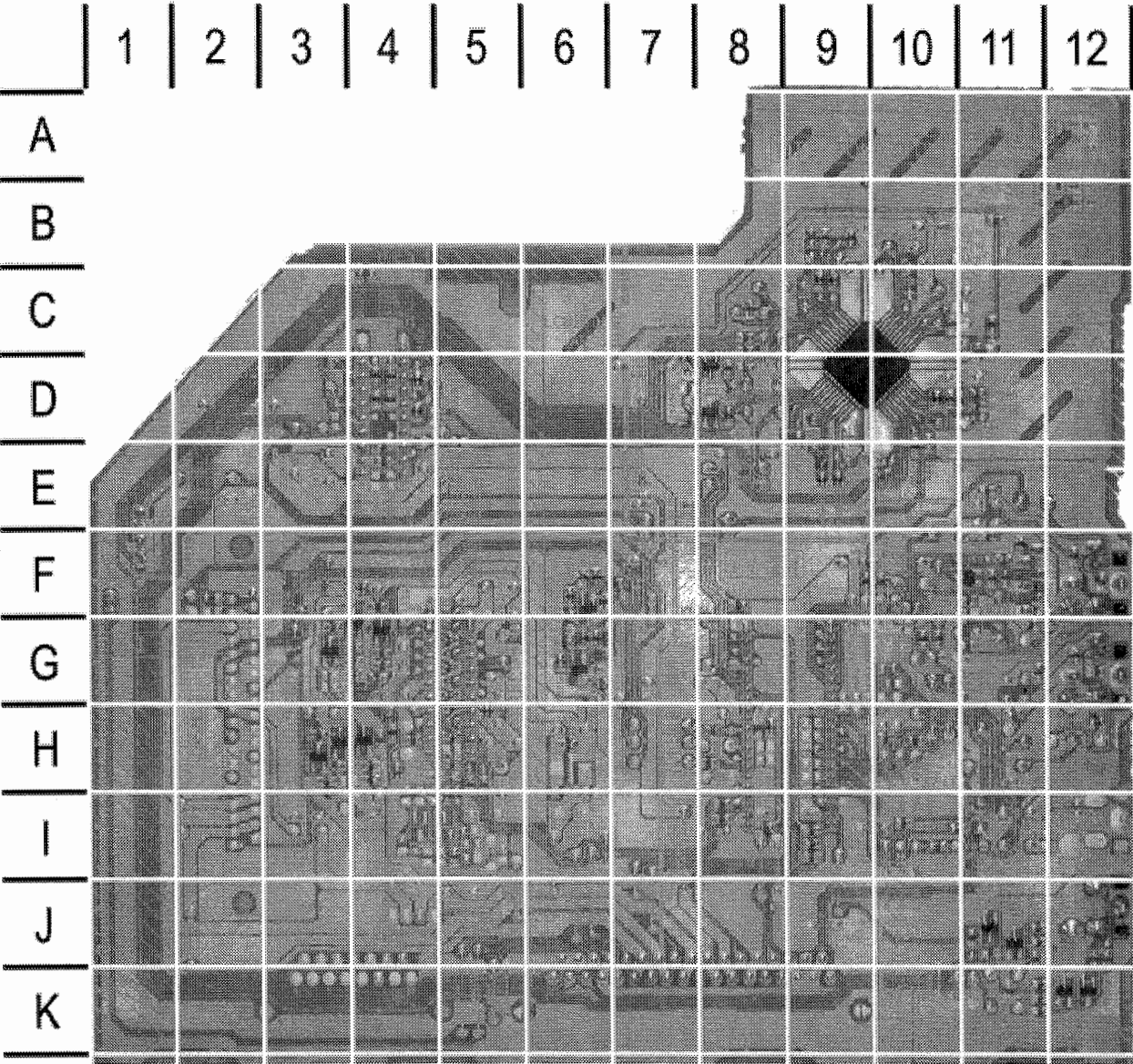
MODEL AV-36D503/M

A/V SELECTOR BOARD - TOP VIEW



A/V SELECTOR BOARD - TOP VIEW, GRIDTRACE LOCATION GUIDE													
C5001	D2	C5016	C5	C5203	G7	C5502	E2	D5391	K3	D5511	C5	L5241	F8
C5004	D2	C5017	D5	C5205	H7	C5503	E3	D5392	K2	D5512	C5	L5242	G8
C5005	C2	C5018	D5	C5211	F6	C5504	I2	D5501	F4	D5513	H5	L5243	H8
C5006	C3	C5021	D4	C5215	G8	C5506	H2	D5502	F4	IC5151	C9	L5244	G10
C5007	C3	C5024	E4	C5231	F8	C5508	G2	D5503	F3	IC5201	G8	L5245	H9
C5008	B3	C5026	B4	C5236	G8	C5520	H1	D5504	H3	IC5501	G4	L5261	I10
C5009	C3	C5151	C8	C5242	G9	C5521	H2	D5505	H3	J5501	F1		
C5010	B3	C5152	D10	C5251	F9	C5532	G5	D5507	H3	J5502	G1		
C5011	B4	C5157	D9	C5391	K2	C5534	H5	D5508	I3	J5503	J1		
C5014	C4	C5158	E10	C5392	K2	CN5001	K7	D5509	I3	L5202	G9		
C5015	B5	C5159	E10	C5501	F3	CN5006	F12	D5510	I3	L5211	G7		

A/V SELECTOR BOARD - BOTTOM VIEW



A/V SELECTOR BOARD - BOTTOM VIEW, GRIDTRACE LOCATION GUIDE													
C5002	D10	C5226	I5	IC5001	D10	R5007	B9	R5242	H5	R5392	K11	R5516	I9
C5003	D11	C5232	F5	Q5211	F6	R5008	B9	R5243	F8	R5393	J11	R5517	F8
C5012	C9	C5233	G5	Q5212	G6	R5009	B9	R5251	G4	R5394	J12	R5519	G11
C5013	C9	C5234	G5	Q5251	G3	R5010	C8	R5253	G4	R5395	J11	R5520	F11
C5019	D9	C5235	G5	Q5252	G4	R5011	D10	R5254	G3	R5396	J12	R5521	F12
C5020	D9	C5237	H5	Q5253	G4	R5012	D10	R5255	G4	R5501	F10	R5522	F12
C5022	E9	C5238	H5	Q5261	H4	R5151	D4	R5258	G4	R5502	F9	R5523	F12
C5023	E9	C5239	H5	Q5262	H3	R5152	D4	R5259	F4	R5503	F10	R5527	G12
C5025	E10	C5240	G5	Q5263	H3	R5153	D4	R5261	H4	R5504	G10	R5532	G12
C5153	D4	C5241	G5	Q5384	K12	R5154	D4	R5262	H4	R5505	H10	R5533	G12
C5154	D4	C5243	H5	Q5385	K12	R5159	D5	R5263	H4	R5507	G10	R5541	C8
C5155	D4	C5246	H5	Q5386	J11	R5211	F6	R5265	H3	R5508	H9	R5542	C8
C5156	D4	C5247	H4	Q5387	J11	R5212	F6	R5269	H3	R5509	G10	R5543	H8
C5160	E3	C5252	F4	R5001	D10	R5213	F6	R5270	H3	R5510	I10	R5544	I8
C5204	G6	C5255	G4	R5002	D11	R5214	F6	R5384	K11	R5511	I10	R5545	I8
C5206	H6	C5263	I3	R5003	C11	R5215	G6	R5385	K11	R5512	I10	R5546	I8
C5212	F6	C5509	F11	R5004	C11	R5216	G6	R5386	J11	R5513	I9		
C5213	G6	C5531	H8	R5005	C10	R5217	F7	R5387	J11	R5514	I9		
C5214	G6	C5533	H8	R5006	C10	R5241	H4	R5391	J11	R5515	I9		

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MODEL AV-36D503/M

PARTS LIST

Item No.	Type No.	Mfr. Part No.	NTE Part No.
D305 Thru	-	1SS133-T2	NTE177
D310	-	MTZJ9.1C-T2	-
D352	-	1SS133-T2	NTE177
D353	-	MTZJ3.3A-T2	-
D354	-	1N4003-T2	NTE116
D421	-	MTZJ75-T2	-
D422	-	1SS133-T2	NTE177
D432	-	RH3G-F1	-
D501	-	RU3AM-LFC4	NTE580
# D502	-	RH1S-T3	NTE552
D521	-	RGP10J-5025-T3	-
D523	-	1SS81-T5	NTE177
D525, 26	-	1SR124-400A-T2	-
D527	-	MTZJ5.1C-T2	-
D529	-	MA4068N/Z1/-T2	-
# D531	-	1SS133-T2	NTE177
D535	-	1SR35-400A-T2	-
D537	-	MTZJ9.1C-T2	-
D601, 02, 03	-	1SS133-T2	NTE177
D653, 54	-	MTZJ5.6B-T2	-
D700	-	1SS133-T2	NTE177
D701	-	MTZJ5.6B-T2	-
D703, 04	-	1SS133-T2	NTE177
D705	-	1SS133-T2	NTE177
D706 Thru	-	MTZJ5.6B-T2	-
D709	-	1SS133-T2	NTE177
D716, 21, 22	-	MTZJ5.6B-T2	-
D723	-	MTZJ5.6B-T2	-
D810	-	GSIB460-S1	-
# D901	-	MA700A-T2	-
D910	-	RGP10J-5025-T3	-
# D911, 12, 13	-	1SS133-T2	NTE177
D914	-	SARS01-T2	-
D915	-	MTZJ30A-T2	-
D917	-	MTZJ5.1C-T2	-
D918	-	1SS133-T2	NTE177
D920	-	RU30A-F1	-
D931	-	RU3YX-LFC4	-
D933, 35	-	MTZJ33A-T2	-
D941	-	MTZJ9.1B-T2	-
D945	-	1SS133-T2	NTE177
D952, 53	-	1N4002G-T2	-
D954 Thru	-	MTZJ15C-T2	-
D957	-	1SS133-T2	NTE177
D972	-	1SS133-T2	NTE177
D973	-	1SS133-T2	NTE177
D3391	-	MTZJ9.1C-T2	-
D4301	-	MTZJ9.1C-T2	-
D5391, 92	-	MTZJ9.1C-T2	-
D5501 Thru	-	MTZJ9.1C-T2	-
D5505	-	MTZJ9.1C-T2	-
D5507 Thru	-	MTZJ9.1C-T2	-
D5513	-	SLR-342VR3F	-
D7701	-	M52342SP	-
IC101	-	TM8812CSBNG3U68	-
IC201	-	LA7841	-
# IC421	-	TA1287F-X	-
IC601	-	LA4485	-
IC621	-	AT24C08-32D503	-
IC702	-	S-80840CNY-T	-
IC703	-	AN78L05-T	-
IC704	-	AN7809F	NTE1966
IC852	-	AN7805F	NTE1960
IC853	-	STR-G6624/F8	-
# IC911	-	SE135N	-
# IC921	-	M52342SP	-
IC4101	-	SDA9389X-X	-
IC4301	-	CXA2134Q	-
IC5001	-	NJM2150AD	-
IC5151	-		

Item No.	Type No.	Mfr. Part No.	NTE Part No.
IC5201	-	TC90A49P	-
IC5501	-	TA1218AN	-
# PC921	-	TLP421F/D4-GR/	-
Q001	-	UN2212-X	-
Q101	-	2SC5083/L-P/-T	-
Q131	-	2SB709A/QR/-X	NTE2409
Q161	-	2SD601A/QR/-X	NTE2408
Q211	-	2SD601A/QR/-X	NTE2408
Q232, 33	-	2SD601A/QR/-X	NTE2408
Q352	-	2SD601A/QR/-X	NTE2408
Q431	-	UN2212-X	-
Q501	-	2SC4212/Z1/	-
# Q511	-	2SD2645-YD	-
Q531	-	2SC2785/JH/-T	NTE2361
Q532	-	2SB709A/QR/-X	NTE2409
Q541, 42	-	2SB709A/QR/-X	NTE2409
Q543	-	2SD1408/OY/-LB	NTE291
Q622	-	2SD601A/QR/-X	-
Q623	-	UN2212-X	-
Q700	-	2SD601A/QR/-X	NTE2408
Q701	-	2SB709A/QR/-X	NTE2409
Q705	-	2SD601A/QR/-X	NTE2408
Q951	-	2SD1383K/AB/-X	NTE2404
Q971	-	2SA1208/ST/Z1-T	-
Q3351, 52, 53	-	2SC4544-LB	NTE376%
Q3391	-	2SA933AS/QR/-T	NTE290A
Q4101	-	2SC5083/L-P/-T	-
Q4131	-	2SA1037AK/QR/-X	NTE2409
Q4301, 02, 03	-	2SD601A/QR/-X	NTE2408
Q5211, 12	-	2SD601A/QR/-X	NTE2408
Q5251	-	2SD601A/QR/-X	NTE2408
Q5252	-	2SB709A/QR/-X	NTE2409
Q5253	-	2SD601A/QR/-X	NTE2408
Q5261	-	2SB709A/QR/-X	NTE2409
Q522	-	2SD601A/QR/-X	NTE2408
Q5263	-	2SB709A/QR/-X	NTE2409
Q5384 Thru	-		
Q5387	-	DTC323TK-X	-
Q7702	-	UN2112-X	-
Item No.	Function/Rating	Mfr. Part No.	Notes
C211	10µF 20% 16V NP	QENC1CM-106Z	-
# C510	.0058 3% 1.5kV	QFZ0196-582	-
	.0053 3% 1.5kV	QFZ0196-532	-
# C513	.013 3% 1.5kV	QFZ0198-133	-
# C514	.018 5% 400V	QFP32GJ-183	-
# C515	.65 5% 250V	QFZ0197-654	-
	.62 5% 250V	QFZ0197-624	-
	.56 5% 250V	QFZ0197-564	-
# C901	.1 10% 275VAC	QFZ9072-104	-
# C902	.047 20% 275VAC	QFZ9072-473	-
# C904, 05, 06	.001 250VAC	QCZ9054-102	-
# C907	470µF 20% 200V	QEZ0169-477	-
# C908	.001 250VAC	QCZ9054-102	-
C912	.0022 10% 2kV	QCZ0340-222	-
C937	.001 10% 2kV	QCZ0340-102	-
# C997	.001 20% 125VAC	QCZ9052-102	-
# C998, 99	.01 20% 250VAC	QCZ9074-103	-
# C3382	.001 3kV	QCZ0121-102	-
C5001, 09	4.7µF 20% 50V NP	QENC1HM-475Z	-
C5011, 14	4.7µF 20% 50V NP	QENC1HM-475Z	-
C5015	10µF 10% 16V Tantalum	QBTC1CK-106Z	-
C5017, 18	1µF 20% 50V NP	QENC1HM-105Z	-
C5021, 24	4.7µF 20% 50V NP	QENC1HM-475Z	-
C5026	3.3µF 10% 16V Tantalum	QBTC1CK-335Z	-
C5151, 52	1µF 20% 50V NP	QENC1HM-105Z	-
C5211	10µF 20% 16V NP	QENC1CM-106Z	-
C5504, 34	47µF 20% 16V NP	QENC1CM-476Z	-
CF001	Trap	QAX0349-001	-

PARTS LIST continued

Item No.	Function/Rating	Mfr. Part No.	Notes
CF131	Trap	QAX0639-001Z	4.5MHz
CF161	Filter	QAX0642-001Z	4.5MHz
CF4131	Trap	QAX0639-001Z	4.5MHz
# CN10PW	Line Cord	QMPD390-200-JS	AC, Polarized
# CP932, 36	IC Protector	ICP-N70-T	-
# DY1 (1)	Yoke	-	Horiz .9mH, Vert 17mH
# F901	Fuse	QMF51U1-5R0-J8	5A
# F905	Fuse	QMFZ049-5R0Z-E	5A
FC901, 02	Fuse Holder	CEMG002-001Z	For F901, 05
# FR525	4.7 5% 1/4W Fusible	QRZ9017-4R7	-
# FR527	47 5% 1/2W Fusible	QRZ9011-470	-
IC7701	Receiver	GPIU281Q	Remote
J601	Jack	QNN0349-002	Assembly
J810	Jack	QNS0001-001	Compulink
J5501	Jack	QNZ0454-001	Assembly
J5502	Jack	QNN0349-001	Assembly
J5503	Jack	QNN0348-001	Assembly
J6401	Jack	QNN0281-003	Front Video Input
J6402	Jack	QNN0281-002	Front Left Audio Input
J6403	Jack	QNN0281-001	Front Right Audio Input
K401	Ferrite Bead	QQR0621-002Z	-
K912, 16	Ferrite Bead	QQR0582-001Z	-
K917, 18	Ferrite Bead	QQR0582-001Z	-
K931, 32	Ferrite Bead	QQR0582-001Z	-
K933	Ferrite Bead	QQR0621-002Z	-
K935	Ferrite Bead	QQR0582-001Z	-
L001	56μH	QQL244K-560Z	-
# L01 (3)	Degaussing	QQW0114-001	-
# L01 (4)(5)	Degaussing	CELD067-001JA	-
L101	-	QQLZ014-R22	-
L113	4.7μH	QQL244K-4R7Z	-
L131	15μH	QQL244K-150Z	-
L161	-	QQL244K-220Z	-
L232	56μH	QQL-244K-560Z	-
L241	-	QQL-244K-220Z	-
L391	-	QQL-244K-220Z	-
# L511	Horizontal Linearity	CE41029-00A	-
L512	-	QQLZ036-821	-
# L521	-	QQLZ027-821	-
L701 Thru	-	-	-
L705	-	QQL244K-220Z	-
L931, 33	47μH	QQL26AK-470Z	-
L940	Ferrite Bead	QQR0582-001Z	-
L3381	-	QQL244K-101Z	-
L4001	56μH	QQL244K-560Z	-
L4101	-	QQLZ014-R22	-
L4113	4.7μH	QQL244K-4R7Z	-
L4131	15μH	QQL244K-150Z	-
L4302, 03, 04	6.8μH	QQL244J-6R8Z	-
L5202	15μH	QQL244K-150Z	-
L5211	4.7μH	QQL244K-4R7Z	-
L5241 Thru	-	-	-
L5245	4.7μH	QQL244K-4R7Z	-
L5261	15μH	QQL244K-150Z	-
LC601, 02, 03	Filter	QQR1199-001	-
LC6401	Filter	QQR1199-001	-
# LF901	Line Filter	QQR1085-003	-
R504	820 5% 3W	QRL039J-821	-
	1000 5% 3W	QRL039J-102	-
R505	820 5% 3W	QRL039J-821	-
	1000 5% 3W	QRL039J-102	-
# R535	2200 .5% 1/10W	NRVA02D-222X	-
# R537	7500 .5% 1/10W	NRVA02D-752X	-
R553	18 5% 3W	QRL039J-180	-
# R554	15 5% 1/2W Fusible	QRK126J-150X	-
R855	10 5% 3W	QRG039J-100	-
# R857	33 5% 2W	QRL029J-330	-
# R858	39 5% 2W	QRL029J-390	-
# R901	.47 10% 7W	QRF074K-R47	-
# R909	47 5% 1W	QRG01GJ-470	-

Item No.	Function/Rating	Mfr. Part No.	Notes
R939	2.2 5% 3W	QRT089J-2R2	-
# R998	2.7M 10% 1/2W	QRZ9041-275	-
# RY951	Relay	QSK0086-001	Power
S421	Switch	QSL4A13-C02	Vertical Centering
S7701	Switch	QSW0619-003Z	Power
S7702	Switch	QSW0619-003Z	Menu
S7703	Switch	QSW0619-003Z	Channel -
S7704	Switch	QSW0619-003Z	Channel +
S7705	Switch	QSW0619-003Z	Volume -
S7706	Switch	QSW0619-003Z	Volume +
SF101	Filter	QAX0723-001	SAW
SF4101	Filter	CE42589-201	SAW
# SK3351	Socket	QNZ0537-001	CRT
# SP01, 02	Speaker	CEBSS12D-04KJ2	2" x 4 3/4", 8 Ohms
T111	IFT	QQR0907-001	-
T501	Horizontal Drive	CE42034-002	-
# T502 (2)	Horizontal Output	QQH0121-001	-
# T921	SW	QQS0138-001	-
# T951	Power	QQT0355-001	-
T4111	IFT	QQR0907-001	-
# TH901	5.1 Cold PTC	QAD0132-3R0	-
TU001	Tuner	QAU0272-001	-
# TU4001	Tuner	QAU0273-001	-
# V01	CRT	A90LLD361X15	-
# V01	CRT	A90AEJ15X01	-
# V01	CRT	A90AKB50X04/V	-
# V01	CRT	A90AHH50X10/V	-
# VA901	Varistor	ERZV10V621CS	-
X701	Crystal	QAX0717-001Z	-
X4301	Crystal	QAX0521-001Z	27MHz
	PC Board	SGE-5001A-M2	A/V Selector
	PC Board (3)	SGE-3003A-M2	CRT
	PC Board (4)	SGE-3011A-M2	CRT
	PC Board (5)	SGE-3010A-M2	CRT
	PC Board	SGE-6001A-M2	Front A/V
	PC Board	SGE-7001A-M2	Front Control
	PC Board (6)	SGE-1005A-M2	Main
	PC Board (7)	SGE-1026A-M2	Main
	PC Board (8)	SGE-1025A-M2	Main
	PC Board (9)	SGE-1001A-M2	Main
	PC Board (10)	SGE-1019A-M2	Main
	PC Board (11)	SGE-1018A-M2	Main
	PC Board (9)(10)(11)	SGE-4001A-M2	PIP
	Transmitter (6)(7)(8)	RM-C252-1H	Remote
	Transmitter (9)(10)(11)	RM-C251-1H	Remote

For SAFETY use only equivalent replacement part.
% Used insulating hardware supplied with replacement.
(1) Bonded part of CRT.
(2) Screen and focus controls are part of T502.
(3) Used in models AV-36D203/M, AV-36D303/M, and AV-36D503/M.
(4) Used in models AV-36D203/R, AV-36D303/R, and AV-36D503/R.
(5) Used in models AV-36D203/Y, AV-36D303/Y, and AV-36D503/Y.
(6) Used in models AV-36D203/M and AV-36D303/M.
(7) Used in models AV-36D203/R and AV-36D303/R.
(8) Used in models AV-36D203/Y and AV-36D303/Y.
(9) Used in model AV-36D503/M.
(10) Used in model AV-36D503/R.
(11) Used in model AV-36D503/Y.

JVC

MODEL AV-36D503/M