

## 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.

### GENERAL GUIDELINES

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

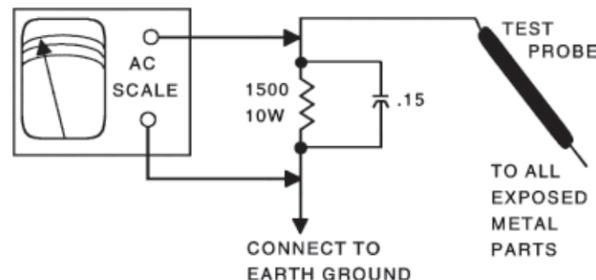
### SAFETY CHECKS — FIRE AND SHOCK HAZARD

#### Cold Leakage Checks for Receivers with Isolated Ground

Unplug the AC cord, connect a jumper across the plug prongs, and turn the power switch on (if applicable). Use an ohmmeter to measure the resistance between the jumped AC plug and any exposed metal cabinet parts such as antenna screw heads, control shafts, or handle brackets. Exposed metal parts with a return path should measure between 1M ohms and 5.2M ohms. Parts without a return path must measure infinity.

#### Hot Leakage Current Check

Plug the AC cord directly into an AC outlet. DO NOT use an isolation transformer. Use a 1500 ohms, 10W resistor in parallel with a .15µF capacitor to connect between any exposed metal parts on the receiver and a good earth ground. (See figure below.) Use an AC voltmeter with at least 5000 ohms per volt sensitivity to measure the voltage across the resistor. Check all exposed metal parts and measure voltage at each point. Voltage measurements should not exceed .75VAC, 500µA. Any value exceeding this limit constitutes a potential shock hazard and must be corrected. If the AC plug is not polarized, reverse the AC plug and repeat exposed metal part voltage measurement at each point.



The listing of any available replacement part herein in no case constitutes a recommendation, warranty, or guarantee by SAMS Technical Publishing 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 by the manufacturers of the specific type of replacement part listed.

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# QUICKFACT FROM PHOTOFACT®

## Technical Service Data

### LCD SERIES

5520

JVC  
Model LT-40X667/S

SET 5520

5520

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Representative Model

### Essential Coverage For Servicing

These LCD Receiver...

- Component Locations
- Parts list
- Placement chart
- Power Supply Schematic

#### THIS IS A GREEN PRODUCT

Do not use lead based solder for repair. Use only green product parts for replacement.

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Technical Publishing

DECEMBER 2009 SET 5520

MODEL LT-40X667/S

JVC

# MISCELLANEOUS ADJUSTMENTS

## ADJUSTMENT PREPARATION

First preset the following settings with the remote before entering Service Mode.

Setting Item	Setting Position
Video Status	Standard
Picture adjustments	Center
Color Temperature	Low
Digital Noise Clear	Off
Color Management	On
Natural Cinema	Off
Sound Adjustments	Center
Smart Sound	Off
MTS	Stereo
A.H.S.	Off
Max Base	Off
Aspect	Full

## SERVICE MODE

Before entering the Self Check Display Mode, confirm that the setting of the TV/CATV switch on the remote is in the TV setting, and the VCR/DVD switch is in the VCR setting. **NOTE:** If the switches are not properly selected for TV and VCR on the remote the Self Check Display cannot be entered. Set to "0 minutes" using the "Sleep Timer" button on the remote.

Press the "Video Status" and "Display" buttons simultaneously on the remote to enter the Service Mode.

When the Service Mode window is displayed, press the "1" button on the remote then the Adjustment Mode window will display. Select setting items using the up/down function arrows on the remote. Change of setting value/data use the left/right function arrows on the remote. Return back to the Service Menu Screen by pressing the "Menu" button on the remote. **Exit:** The Service Mode by pressing the "Back" button on the remote.

**Note:** Make note of the value/data before any changes are made.

## ENTERING THE ADJUSTMENT MODE

Enter the Service Mode and in the Service Menu Screen press the "1" key on the remote to enter the Adjustment Mode. The following items will appear in the Adjustment Mode display.

ADJUSTMENT MODE	
S001	(Setting Item No.)
R Drive	(Setting Item)
123	(Setting Value/Data)
NTSC3	(Signal System)
Full	(Screen Mode)
STD	(Video Status)
Low	(White Balance)

## SETTING ITEM NAME

SETTING ITEMS	SETTINGS	ITEM NO.
Video system setting	Adjustable	S001-S009
Audio system setting	Adjustable	T001-T003
Main CPU system set	Fixed	M001-M224
Drive system setting	Fixed	F001-F002
(Not Used)	(Not Used)	D001
(Not Used)	(Not Used)	Z001

## SELECTING SETTING ITEM No

Use the "Channel +/Channel-" buttons on the remote to select one of the Setting Items. (S001, T001, M001, F001, D001 or Z001)

Use the "Sleep Timer" button on the remote to switch to the next items.

Use the "Vol+/ Vol-" buttons on the remote to set values up/down.

Press the "Muting" button on the remote to memorize value changes.

## MEMORY OF SETTING VALUE/DATA

Press the "Muting" button on the remote to write value/data changes to memory.

## EXIT THE SERVICE MODE

Exit the Service Mode by pressing the "Back" button on the remote.

## WHITE BALANCE (HIGHLIGHT)

1. Apply a NTSC 75% all white signal.
2. Set "VIDEO STATUS" to "STANDARD".
3. Set ASPECT to "FULL".
4. Set "COLOR TEMPERATURE" to "LOW".
5. Select "1. ADJUST" from the SERVICE MODE.
6. Adjust to keep one of the R, G, or B-Drives unchanged, than lower the other two so that an all-white screen is equally white throughout. **Note:** Set one or more of <S030> RED, <S031>GREEN, or <S032> BLUE drives to "137".
7. Check that white balance is properly tracked from low light to high light. If the white balance tracking is deviated, adjust to correct it.
8. Press the "MUTING" button on the remote to memorize values.

## POWER LED BLINKING CHART

The TV's Power LED flashing indicates an abnormality has occurred, with no raster.

Blinking Times	Power Indicator	Check Area
1sec intervals	Blue LED blinking on/off	Low Bias line short.
2 sec intervals	Blue LED blinking on/off	ATSC Tuner fan lock
2 sec intervals	Blue LED blinking on/off	Cable-Card error

## SELF-CHECK

If the power should fail or if the video or audio fails the self-check function can be used to determine and limit the scope of finding the defective circuit.

## Accessing Self-Check Function

Before entering the Self Check Display Mode, confirm that the setting of the TV/CATV switch on the remote is in the TV setting, and the VCR/DVD switch is in the VCR setting. **NOTE:** If the switches are not properly selected for TV and VCR on the remote the Self Check Display cannot be entered.

Set to "0 minutes" using the "Sleep Timer" button on the remote.

Press the "Video Status" and "Display" buttons simultaneously on the remote to enter the Service Mode. The Service Menu Screen will be displayed. Select #2 in the window for "SELF CHK" page 1 will be displayed & press "Sleep Timer" button on the remote to select page 2 of the Self Check Mode. **Note:** Use the "Return+" button to return to page 1. Press the "Menu" button on the remote to return to the Service Menu Screen. Item window will indicate: "OK" is normal, "NG" is abnormal.

## PAGE 1:

Detection Item	Display	Detection Content	Signal	Detection Timing
Low bias line short	LOB	Confirm Q9601, Q9651 voltages	LB_PRO	Will power TV off in 3 seconds if error persist.
Fan Lock	FAN	Not used	-	-
Audio	AUD	Not used	-	-
Analog Devices on board	ANA	Confirm Acknowledgment I2C Lines IC101, 02, 381, 601, 606, & TU3001 (Analog brd)	SDA	Confirm presence of Data signal No reply of ACK signal an error will count
Digital Devices on board	DIG	Confirm Acknowledgment I2C Lines (Digital Board)	SDA	Confirm presence of Data signal No reply of ACK signal an error will count

## PAGE 2:

Detection Item	Display	Detection Content	Signal	Detection Timing
Temp sensor	TMP	Not used	-	-
Lamp doesn't light	L1	Not used	-	-
Lamp goes out	L2	Not used	-	-
Abnormal DD CPU circut	DDT	Not used	-	-
Fan lock	FAN	Not used	-	-
Lamp cover open	LC	Not used	-	-
Abnormal optical iris	IRS	Not used	-	-

**NOTE:** As "Sync" is not counted, the failures are not displayed.

## FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, the number will remain as 9. Failure history will be stored in the memory unless it has been reset.

## Exiting Self-Check Function

**To save any failure history:** Unplug the TV from the AC source while still in the Self-Check Mode.

**To exit and reset failure history:** Turn the TV off using the "Power" button on the remote while still in the Self-Check Mode.

## Wattage Consumption

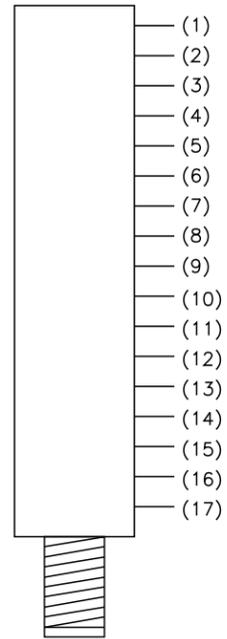
Power consumption: Maximum 275W @120VAC 60Hz

Standby: 0.6W

**Note:** When using a Variac and/or Isolation Transformer during servicing make sure they are capable of supplying the necessary power output to the TV.

# TUNER INFORMATION

## TU3001 Terminal Guide



## TU3001 TUNER

PIN	Description	Voltage
1	NC	-
2	NC	-
3	BM	5.0V
4	NC	-
5	NC	-
6	NC	-
7	NC	-
8	RF AGC	1.9V
9	IF	-
10	SCL	5.0V
11	SDA	5.0V
12	AFT	2.3V
13	Audio Out	2.1V
14	SIF-OUT	.5V
15	BTL	32.0V
16	AGC Cont	2.3V
17	Video Out	1.8V

**Note: No ATSC Tuner information available at time of publication.**

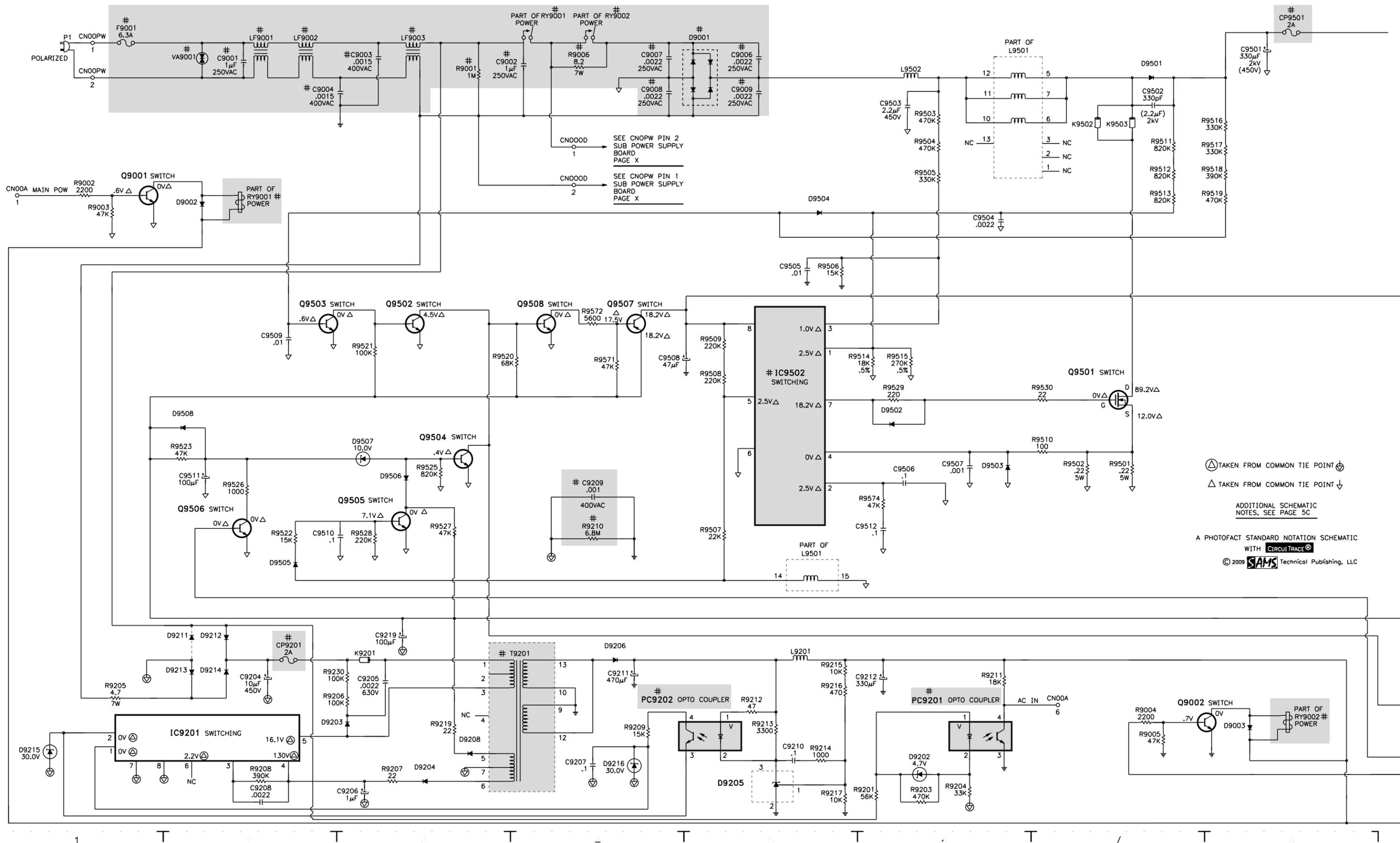
## SCHEMATIC COMPONENT LOCATION GUIDE

C9001	A2	C9512	D6	D9212	D2	LF9001	A22	R9057	E26	R9527	D3
C9001	A23	C9531	C10	D9213	E2	LF9002	A2	R9059	D25	R9528	D3
C9002	A24	C9532	D11	D9214	E2	LF9003	A3	R9060	C26	R9529	C6
C9002	A4	C9533	D11	D9215	E1	P1	A1	R9071	B27	R9530	C6
C9003	A3	C9534	D10	D9216	E4	PC9001	D25	R9201	E6	R9531	A10
C9003	B23	C9535	D10	D9301	D18	PC9201	E6	R9203	E6	R9532	C12
C9004	A2	C9536	C11	D9302	C19	PC9202	E5	R9204	E6	R9533	C12
C9004	C23	C9537	E13	D9501	A7	PC9501	D15	R9205	E1	R9534	C12
C9006	A5	C9538	D9	D9502	C6	PC9502	D13	R9206	E3	R9535	C12
C9006	C23	C9539	D12	D9503	C6	PC9503	E15	R9207	E3	R9536	C12
C9007	A4	C9540	A10	D9504	B5	Q9001	B1	R9208	E2	R9537	D10
C9008	A4	C9541	C10	D9505	D2	Q9002	E7	R9209	E4	R9538	D10
C9008	D23	C9542	C13	D9506	C3	Q9501	C7	R9210	D4	R9539	D9
C9009	A5	C9551	A18	D9507	C3	Q9502	C3	R9211	E6	R9540	D9
C9010	D22	C9552	A18	D9508	C2	Q9503	C2	R9212	E5	R9541	D11
C9011	D24	C9553	A18	D9531	D11	Q9504	C3	R9213	E5	R9542	D11
C9012	C23	C9560	C18	D9532	D12	Q9505	D3	R9214	E5	R9543	D12
C9024	A21	C9561	B19	D9533	C12	Q9506	D2	R9215	E5	R9544	D12
C9051	A26	C9562	D15	D9534	C13	Q9507	C4	R9216	E5	R9545	D11
C9054	B26	C9903	D24	D9535	C12	Q9508	C4	R9217	E5	R9547	D12
C9055	C26	CP9001	A23	D9536	C12	Q9531	C9	R9219	E3	R9548	E12
C9057	E25	CP9071	A26	D9537	D10	Q9532	D12	R9230	E3	R9549	D10
C9060	B27	CP9072	B26	D9550	B15	Q9533	D12	R9301	C17	R9553	A17
C9061	C27	CP9073	C26	D9551	A15	Q9534	E12	R9302	C18	R9554	D15
C9072	B26	CP9074	C26	D9552	A15	Q9535	E12	R9303	D18	R9555	D15
C9073	C27	CP9201	E2	D9553	B15	Q9536	C10	R9304	C19	R9556	D16
C9076	C27	CP9501	A8	F9001	A1	Q9537	D10	R9305	C17	R9557	D16
C9078	B27	D9001	A5	IC9001	B22	Q9551	D13	R9306	C18	R9558	D16
C9204	E2	D9001	C23	IC9051	E25	Q9552	E15	R9501	C7	R9559	D16
C9205	E3	D9002	B2	IC9201	E2	R9001	A3	R9502	C7	R9560	D13
C9206	E3	D9003	E8	IC9301	C18	R9001	C23	R9503	A6	R9561	E15
C9207	E4	D9004	C24	IC9501	C11	R9002	B1	R9504	B6	R9571	C4
C9208	E2	D9005	C23	IC9502	C5	R9002	D22	R9505	B6	R9572	C4
C9209	D4	D9006	C24	IC9551	D15	R9003	B1	R9506	B5	R9574	D6
C9210	E5	D9008	B24	K9051	A25	R9003	D23	R9507	D5	RY9001	A4
C9211	E4	D9009	B24	K9071	B25	R9004	C23	R9508	C5	RY9001	B2
C9212	E6	D9011	E24	K9075	C25	R9004	E7	R9509	C5	RY9002	A4
C9219	D3	D9021	A22	K9201	E3	R9005	E7	R9510	C6	RY9002	E8
C9301	D18	D9022	B23	K9502	A7	R9006	A4	R9511	B7	T9001	A24
C9301	D18	D9023	D22	K9503	A7	R9006	C24	R9512	B7	T9201	D4
C9302	D18	D9051	A25	K9552	E18	R9008	A24	R9513	B7	T9501	A14
C9304	C18	D9053	B26	K9553	E18	R9009	A24	R9514	C6	T9502	C14
C9501	A8	D9054	C25	K9554	E18	R9010	C24	R9515	C6	VA9001	A2
C9502	A7	D9055	C27	K9555	E18	R9011	D24	R9516	A8		
C9503	A6	D9056	C25	K9556	D18	R9012	E23	R9517	B8		
C9504	B6	D9071	B26	K9557	D18	R9021	A22	R9518	B8		
C9505	B5	D9202	E6	L9056	C27	R9022	A22	R9519	B8		
C9506	D6	D9203	E3	L9201	E5	R9023	B22	R9520	C3		
C9507	C6	D9204	E3	L9501	A6	R9024	D22	R9521	C3		
C9508	C4	D9205	E5	L9501	D5	R9050	A27	R9522	D2		
C9509	C2	D9206	E4	L9502	A6	R9051	D26	R9523	C2		
C9510	D2	D9208	E3	L9552	B17	R9053	E26	R9525	C3		
C9511	C2	D9211	D2	LF9001	A2	R9055	E26	R9526	D2		

A

# POWER SUPPLY SCHEMATIC

B



⊕ TAKEN FROM COMMON TIE POINT ⊕  
 △ TAKEN FROM COMMON TIE POINT ↓

ADDITIONAL SCHEMATIC NOTES, SEE PAGE 5C

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SCHEMATIC NOTES

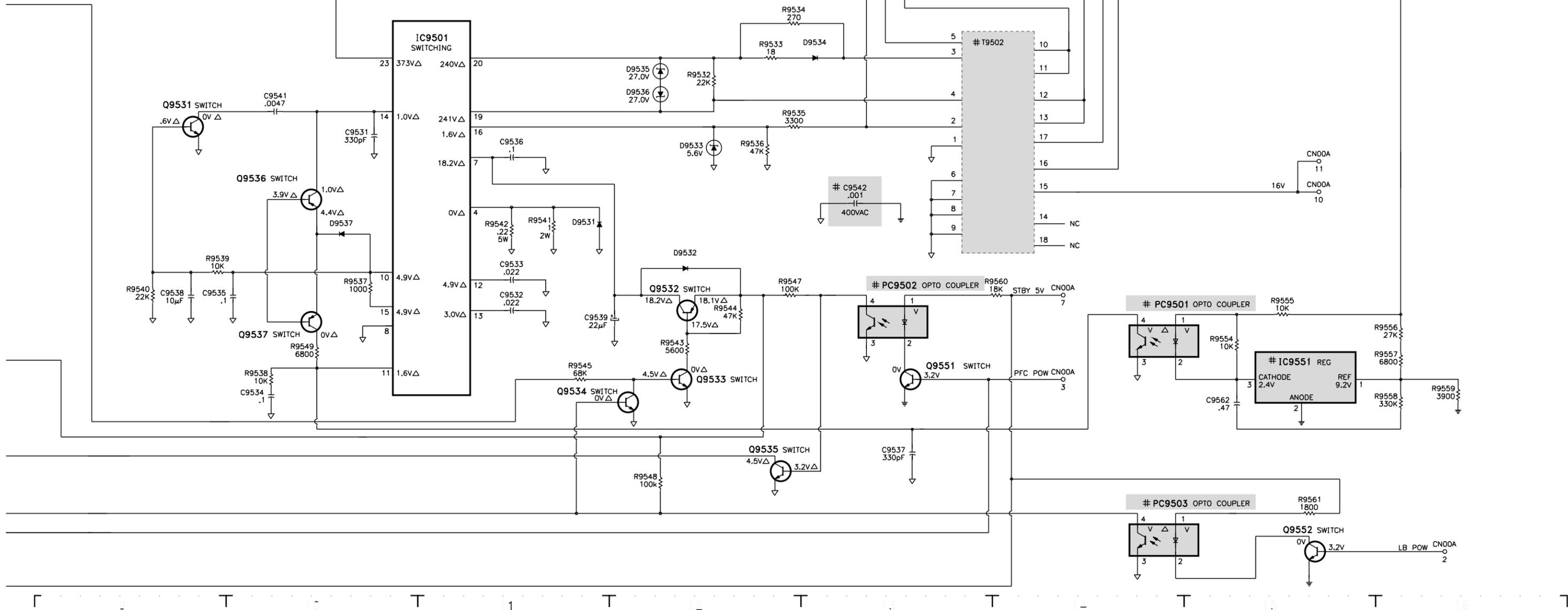
- # For SAFETY use only equivalent replacement part, see parts list.
- Circuitry not used in some versions.
- - - Circuitry used in some versions.
- ⊥ Ground
- ⊥ Chassis ground
- ⊥ Common tie point
- △ Taken from common tie point
- 3 Schematic Voltage source tie point.
- A Cabling: Heavy lines reduce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

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

△ TAKEN FROM COMMON TIE POINT ↓

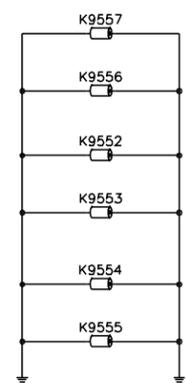
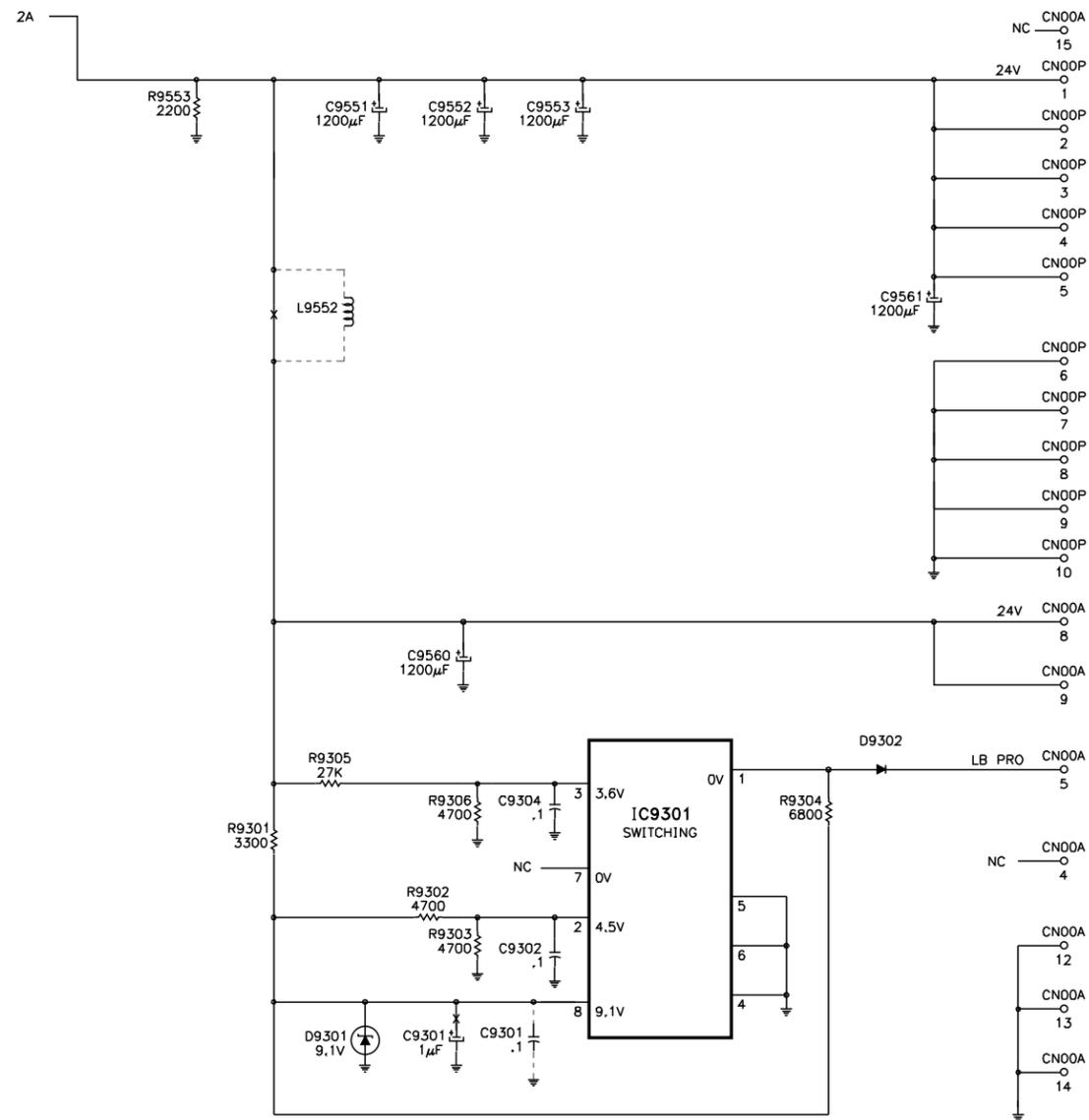
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JVC MODEL LT-40X667/S

**E**  
POWER SUPPLY SCHEMATIC continued



ADDITIONAL SCHEMATIC NOTES, SEE PAGE 5C

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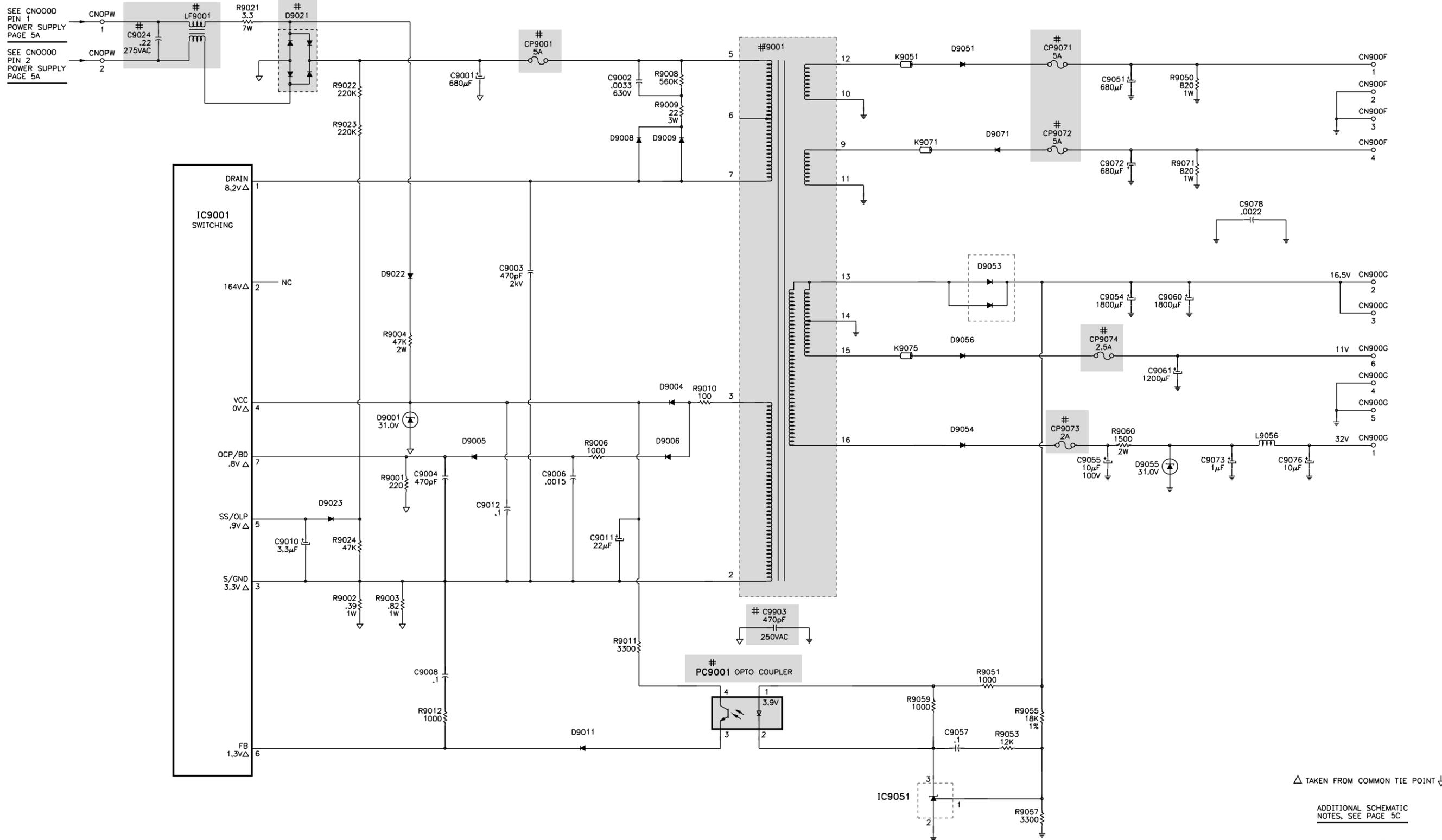


JVC MODEL LT-40X667/S

G

H

# SUB POWER SUPPLY SCHEMATIC



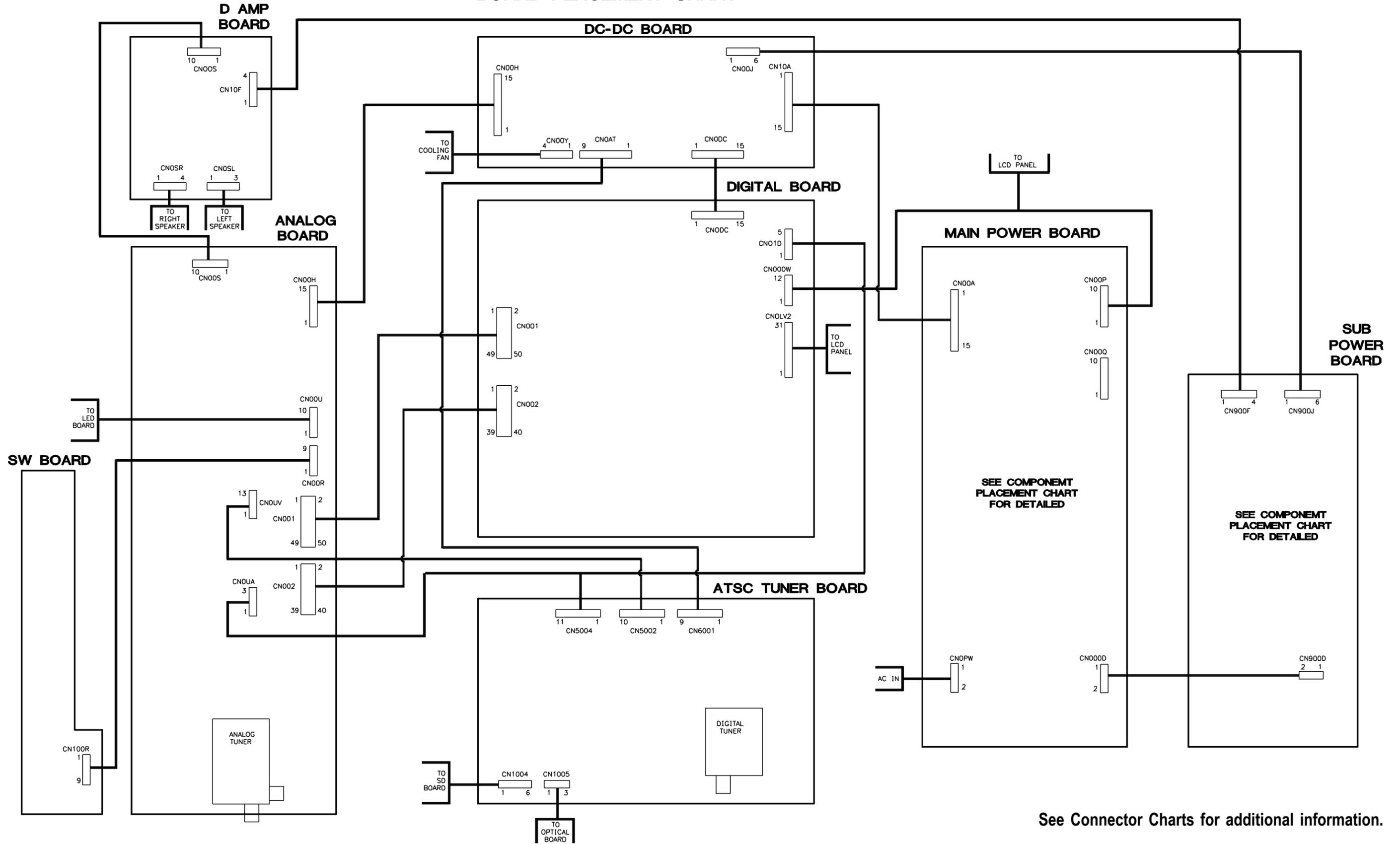
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ADDITIONAL SCHEMATIC NOTES, SEE PAGE 5C

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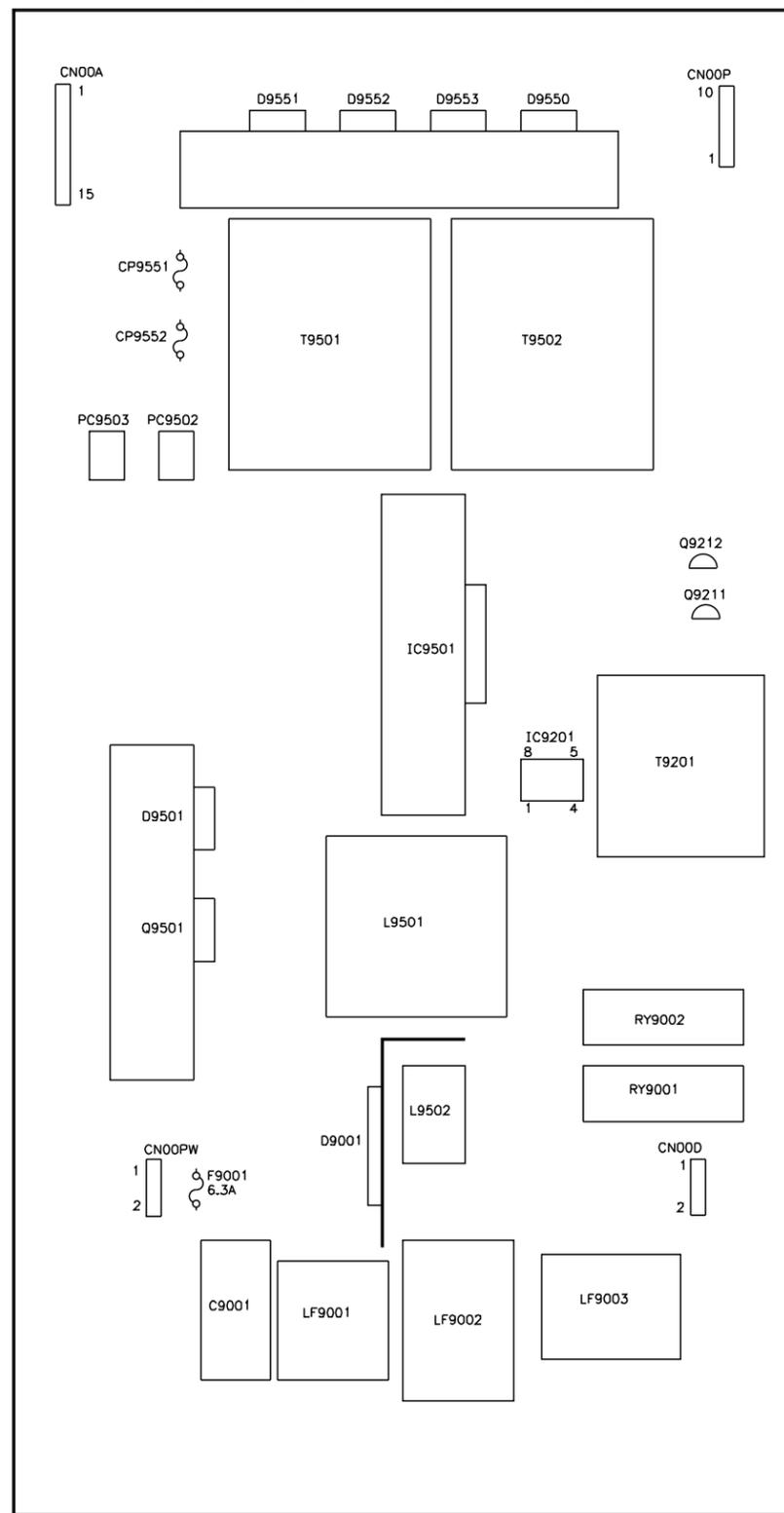
# BOARD PLACEMENT CHART



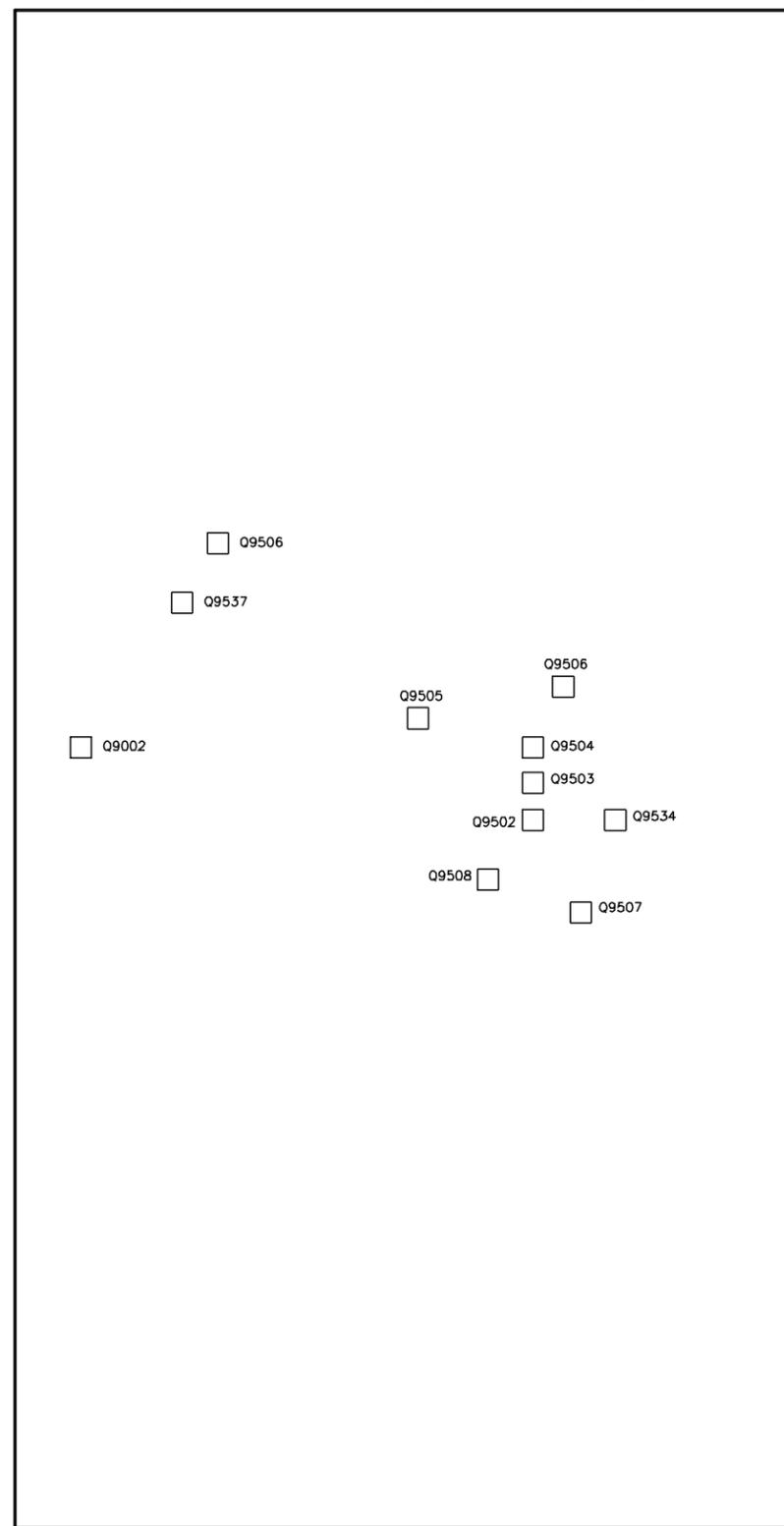
See Connector Charts for additional information.

# COMPONENT PLACEMENT CHART

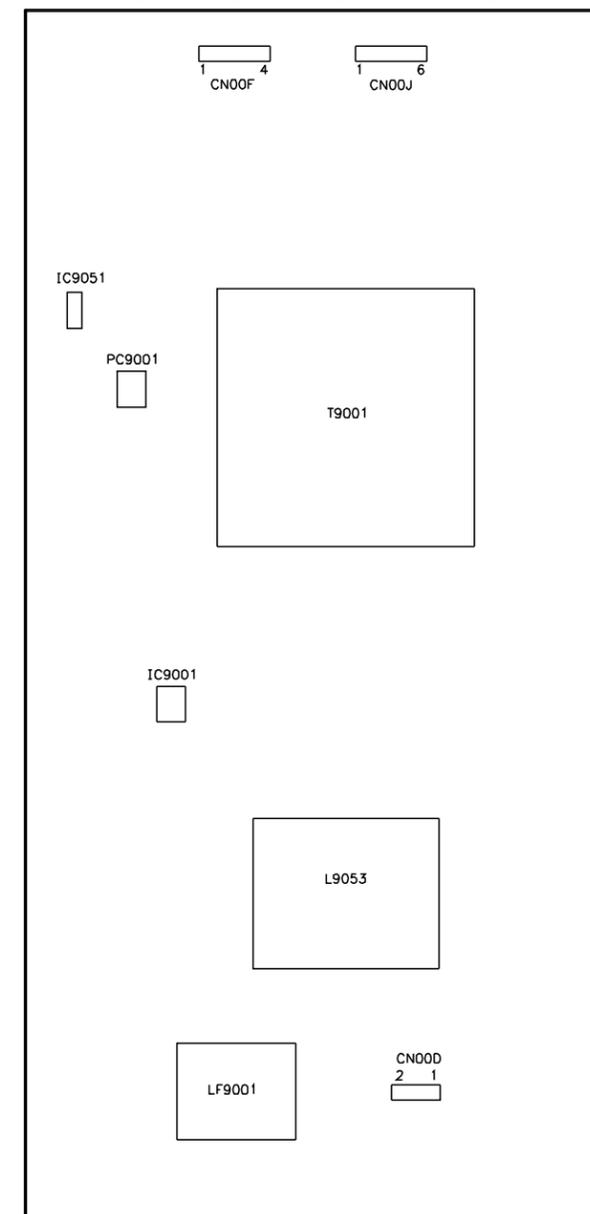
MAIN POWER SUPPLY BOARD - TOP VIEW



MAIN POWER SUPPLY BOARD - BOTTOM VIEW



SUB POWER SUPPLY BOARD



See Connector Charts for additional information.

JVC

MODEL LT-40X667/S

# CONNECTOR CHARTS

## ANALOG SIGNAL BOARD

CN001			CN002			CN0UA		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
Do Not Measure			Do Not Measure			1	DTU-R IN	0V
						2	GND	0V
						3	DTU-L IN	0V
CN00R			CN00H			CN0UV		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	KEY1	5.0V	1	32V	32.0V	1	GND	0V
2	KEY2	5.0V	2	GND	0V	2	NC	-
3	MECA SW	0V	3	MAIN POW	4.8V	3	GND	0V
4	GND	0V	4	POWER GOOD	4.8V	4	V	1.1V
5	5V	5.0V	5	LCD-POW	4.8V	5	GND	0V
6	HP-L	1.2V	6	AC-IN	4.8V	6	Y	.9V
7	HP-GND	0V	7	STB-IN	5.0V	7	GND	0V
8	HP-R	1.2V	8	GND	0V	8	U	1.1V
9	HP-DET	1.2V	9	SCL 3A5	3.4V	9	GND	0V
			10	GND	0V	10	CV	.9V
			11	SDA 3A5	3.4V	11	GND	0V
			12	5V	5.0V	12	C	.9V
			13	9V	9.0V	13	NC	-
			14	GND	0V			
			15	GND	0V			
CN00S			CN00U					
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage			
1	AU +VCC	5.0V	1	5V	5.0V			
2	LB-POW	4.8V	2	POW LED	5.0V			
3	VCC 12V	12.0V	3	GND	0V			
4	HB-MUTE	0V	4	DIMMER LED	4.8V			
5	AMP-L	1.0V	5	STDBY	5.0V			
6	GND	0V	6	DBS LED1	4.8V			
7	AMP-R	1.0V	7	DBS LED2	4.8V			
8	GND	0V	8	REC LED	4.8V			
9	AMP-MU	0V	9	EE CDS	4.8V			
10	TEMP	0V	10	REMOCON	4.8V			

## D-AMP BOARD

CN00S			CN10F		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	AU +VCC	5.0V	1	AU +VCC	16.0V
2	LB-POW	4.8V	2	GND	0V
3	VCC 12V	12.0V	3	GND	0V
4	HB-MUTE	0V	4	AU -VCC	-16.0V
5	AMP-L	1.0V			
6	GND	0V			
7	AMP-R	1.0V			
8	GND	0V			
9	AMP-MU	0V			
10	TEMP	0V			
CN0SL			CN0SR		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	L-OUT	1.0V	1	R-OUT	1.0V
2	L-GND	0V	2	R-OUT	1.0V
3	L-GND	0V	3	R-GND	0V
			4	R-GND	0V

See placement charts for connector location.

## DC-DC BOARD

CN00H			CN10A			CN0DC		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	BT-32V	32.0V	1	MAIN POW	4.8V	1	LB-POW	4.8V
2	GND	0V	2	LB-POW	4.8V	2	PFC-POW	4.8V
3	MAIN-POW	4.8V	3	PFC POW	4.8V	3	GND	0V
4	POW-GOOD	4.8V	4	PDW GOOD	4.8V	4	LB-POW	4.8V
5	LCD-POW	4.8V	5	LB-POW	4.8V	5	LCD-5V	5.0V
6	AC-IN	4.8V	6	AC IN	4.8V	6	16V	16.0V
7	STBY 5V	5.0V	7	STDBY 5V	5.0V	7	GND	0V
8	GND	0V	8	24V	24.0V	8	5V	5.0V
9	SCL	3.4V	9	24V	24.0V	9	GND	0V
10	GND	0V	10	16V	16.0V	10	LCD-5V	5.0V
11	SDA	3.4V	11	16V	16.0V	11	GND	0V
12	5V	5.0V	12	GND	0V	12	9V	9.0V
13	9V	9.0V	13	GND	0V	13	GND	0V
14	GND	0V	14	GND	0V	14	BS-DDU	4.8V
15	GND	0V	15	BT32V	32.0V	15	BT32V	32.0V
CN0AT			CN00J			CN00Y		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	BT32V	32.0V	1	BT32V	32.0V	1	VCC 9V	9.0V
2	5V	5.0V	2	16V	16.0V	2	GND	0V
3	T GND	0V	3	16V	16.0V	3	FAN LK SENS	0V
4	3.3VD	3.3V	4	GND	0V	4	NC	-
5	DGND	0V	5	GND	0V			
6	2.5VD	2.5V	6	11V	11.0V			
7	DGND	0V						
8	9VA	9.0V						
9	AGND	0V						

## ATSC TUNER BOARD

CN5004			CN5002			CN6001		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
Do not measure			1	GND	0V	1	BT32V	32.0V
			2	NC	-	2	5V	5.0V
			3	GND	0V	3	T GND	0V
			4	V	1.1V	4	3.3VD	3.3V
			5	GND	0V	5	DGND	0V
			6	Y	.9V	6	2.5VD	2.5V
			7	GND	0V	7	DGND	0V
			8	U	1.1V	8	9VA	9.0V
			9	GND	0V	9	AGND	0V
			10	CV	.9V			
			11	GND	0V			
			12	C	.9V			
			13	NC	-			
CN1004			CN1005					
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage			
Do not measure			1	RCX	1.0V			
			2	GND	0V			
			3	5V	5.0V			

See placement charts for connector location.

JVC

MODEL LT-40X667/S

# CONNECTOR CHARTS Continued

## DIGITAL BOARD

CN0DC			CN001/02		CNOLV2	
PIN	PIN ID	Voltage	Do not measure		Do not measure	
1	LB-PRO	4.8V				
2	PFC-POW	4.8V				
3	GND	0V				
4	LB-POW	4.8V				
5	LCD-5V	5.0V				
6	16V	16.0V				
7	GND	0V				
8	5V	5.0V				
9	GND	0V				
10	LCD-5V	5.0V				
11	GND	0V				
12	9V	9.0V				
13	GND	0V				
14	BS-DDU	4.8V				
15	BT32V	32.0V				

CN000W		
PIN	PIN ID	Voltage
1	FRAME	0V
2	0/SSET	0V
3	GND	0V
4	GND	0V
5	TEMP3	0V
6	TEMP2	0V
7	TEMP1	0V
8	BL-ON	3.0V
9	PWM-DIM	2.9V
10	NC	-
11	DC-DIM	1.6V
12	GND	0V

## MAIN POWER BOARD

CN00A			CN000D			CN00P		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	MAIN POW	4.8V	1	ACV	120V	1	24V	24.0V
2	LB-POW	4.8V	2	ACV	0V	2	24V	24.0V
3	PFC POW	4.8V				3	24V	24.0V
4	PDW GOOD	4.8V				4	24V	24.0V
5	LB-POW	4.8V				5	24V	24.0V
6	AC IN	4.8V				6	GND	0V
7	STDBY 5V	5.0V				7	GND	0V
8	24V	24.0V				8	GND	0V
9	24V	24.0V				9	GND	0V
10	16V	16.0V				10	GND	0V
11	16V	16.0V						
12	GND	0V						
13	GND	0V						
14	GND	0V						
15	BT32V	32.0V						

CN0PW		
PIN	PIN ID	Voltage
1	ACV	120V
2	ACV	0V

## LED BOARD

CN200U		
PIN	PIN ID	Voltage
1	5V	5.0V
2	POW LED	5.0V
3	GND	0V
4	DIMMER LED	4.8V
5	STDBY	5.0V
6	DBS LED1	4.8V
7	DBS LED2	4.8V
8	REC LED	4.8V
9	EE CDS	4.8V
10	REMOCON	4.8V

## OPTICAL BOARD

CN00DA		
PIN	PIN ID	Voltage
1	RCX	1.0V
2	GND	0V
3	5V	5.0V

See placement charts for connector location.

## SD CARD BOARD

CN200L		
PIN	PIN ID	Voltage
1	ADRIA-RDA	0V
2	ADRIA-TDA	0V
3	SD-INT	3.3V
4	VCC	5.0V
5	DATAN	0V

PIN	PIN ID	Voltage
6	DAT AP	3.3V
7	GND	0V
8	RXD	0V
9	TXD	0V

## SW BOARD

CN100R		
PIN	PIN ID	Voltage
1	KEY1	5.0V
2	KEY2	5.0V
3	MECA SW	0V
4	GND	0V
5	5V	5.0V

PIN	PIN ID	Voltage
6	HP-L	1.2V
7	HP-GND	0V
8	HP-R	1.2V
9	HP-DET	1.2V

## SUB POWER SUPPLY BOARD

CN900D			CN900J		
PIN	PIN ID	Voltage	PIN	PIN ID	Voltage
1	ACV	120V	1	BT32V	32.0V
2	ACV	0V	2	16V	16.0V
			3	16V	16.0V
			4	GND	0V
			5	GND	0V
			6	11V	11.0V

CN900F		
PIN	PIN ID	Voltage
1	AU +VCC	16.0V
2	GND	0V
3	GND	0V
4	AU -VCC	-16.0V

See placement charts for connector location.

### 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.
- 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.

# PARTS LIST

Item No.	Type No.	Mfr. Part No.	Notes
# D9001	-	D25XB60	
D9001	-	MTZJ33B-T2	On Sub Board
D9002, 03	-	MA111-X	-
D9004	-	FR105GT-T3	On Sub Board
D9004	-	1SS133-T2	-
D9006	-	FR105GT-T3	-
D9008, 09	-	SARS01-T2	-
D9011	-	1SS133-T2	-
D9021	-	D2SBA60	-
D9022	-	FR105GT-T3	-
D9023	-	1SS133-T2	-
D9051	-	RU3AM-LFC4	-
D9053	-	FMX-22S	-
D9054	-	FR105GT-T3	-
D9055	-	MTZJ33B-T2	-
D9056	-	RK14-T3	-
D9071	-	RU3AM-LFC4	-
D9202	-	MA8047-X	-
D9203	-	EG01C-T2	-
D9204	-	D1FL20U-X	-
D9205	-	UTCTL431-T	-
D9206	-	EC21QS10-X	-
D9208	-	D1FL20U-X	-
D9212, 13, 14	-	EM1A-LFF4	-
D9215, 16	-	MA8330/M/-X	-
D9301	-	MA8091/M/-X	-
D9302	-	MA111-X	-
D9501	-	YG972S6R	-
D9502	-	D1FL20U-X	-
D9503, 04	-	MA111-X	-
D9505	-	D1FL20U-X	-
D9506	-	MA111-X	-
D9507	-	MA8100/M/-X	-
D9508	-	MA111-X	-
D9531	-	D1FS4-X	-
D9532	-	MA111-X	-
D9533	-	UDZS5.6B-X	-
D9534	-	SD883-04-X	-
D9535, 36	-	PTZ27B-X	-
D9537	-	1SS355W-X	-
D9550 Thru	-		
D9553	-	FCH20A10	-
IC9001	-	STR-W6765-F5	-
IC9051	-	TL431/A/-T	-
IC9201	-	MIP2C20MSSCF	-
IC9301	-	LM393DR-X	-
IC9501	-	F9222L-F219	-
# IC9502	-	FA5500AN-W	-
# IC9551	-	UTCTL431-T	-
# PC9001	Photo Coupler	PS2581AL1/QW/	On Sub Power Board
# PC9201, 02	Photo Coupler	PS2581AL2/QW/-W	On Main Power Board
# PC9501, 02, 03	Photo Coupler	PS2581AL2/QW/-X	On Main Power Board
Q9001, 02	-	2SC3928A/QR/-X	-
Q9501	-	2SK3522-01-F1	-
Q9502, 03	-	2SC3928A/QR/-X	-
Q9504	-	UN2213-X	-
Q9505, 06	-	UN2212-X	-
Q9507	-	2SB1188/QR/-W	-
Q9508	-	UN2212-X	-
Q9531	-	2SC3928A/QR/-X	-
Q9532	-	2SB1188/QR/-W	-
Q9533	-	UN2212-X	-
Q9534, 35	-	UN2213-X	-
Q9536, 37	-	2SA1530A/QR/-X	-
Q9551, 52	-	UN2212-X	-
Item No.	Function/Rating	Mfr. Part No.	Notes
# C9001, 02	1µF 250VAC	QFZ9072-105	-
C9003	470PF 2KV	QCZ0354-471Z	On Sub Power Board
# C9003, 04	.0015 400VAC	QCZ9071-152	-
# C9006 Thru			
# C9009	.0022 250VAC	QCZ9082-222Z	-
# C9024	.22 275VAC	QFZ9075-224	-
# C9209	.001 400VAC	QCZ9071-102	-
C9502	330PF 2KV	QCZ0340-331	-

Item No.	Function/Rating	Mfr. Part No.	Notes
# C9542	.001 400VAC	QCZ9071-102	-
# C9203, 04, 05	.022 250VAC	QFZ9082-222Z	-
# C9903	470PF 250VAC	QCZ9079-471	-
# CN0PW	Line Cord	QMPD390-200-JS	AC, Polarized
CN0006	Connector	QGB2501J1-07	-
# CN0007	Connector	QGB2501J1-10	-
CN000H	Connector	QGF1201C2-21	-
CN9806	Connector	QGB2501K2-07	-
CN9807	Connector	QGB2501K2-10	-
# CP9001	Fuse	QMFZ043-5R0Z-J1	5 AMP 250VAC
# CP9071, 72	Fuse	QMFZ034-5R0Z-J1	5 AMP 125V
# CP9073	IC Protector	ICP-N50-T	2 AMP
# CP9074	IC Protector	ICP-N70-T	2.5 AMP
# CP9201	Fuse	QMFZ052-2R0-E	2 AMP 250VAC
# CP9501	Fuse	QMFZ043-2R0Z-J1	2 AMP 250VAC
# F9001	Fuse	QMF5AD2-6R3-J1	6.3 AMP 250VAC
IC7701	Receiver	GP1UM281QK	Remote
K9051	Ferrite Bead	QQR0621-002Z	-
K9071	Ferrite Bead	QQR0621-002Z	-
K9075	Ferrite Bead	QQR0621-002Z	-
K9201	Ferrite Bead	NQR0499-001X	-
K9502, 03	Ferrite Bead	QQR0621-002Z	-
K9552 Thru			
K9557	Ferrite Bead	NQR0499-002X	-
L9056	100µH	QQL01BK-101Z	Peaking
L9201	5.6µH	QQL26AM-5R6Z	-
L9501	COIL	QQR1468-001	-
L9502	COIL	QQR1513-001	-
# LF9001	Line Filter	QQR1085-003	On Sub Power
# LF9001	Line Filter	QQR1655-001	On Main Power
# LF9002	Line Filter	QQR1281-005	On Main Power
# LF9003	Line Filter	QQR1654-001	On Main Power
# P1	Power Cord	QMPD710-170-JC	-
# R9001	1M 10% 1/2W	QRZ9046-105Z	-
# R9006	8.2 Fusible	QRZ9058-8R2	-
R9009	22 5% 3W	QRL039J-220	-
R9021	3.3 10% 7W	QRF074K-3R3	-
R9055	18K 1% 1/4W	QRA14CF-1802Y	-
R9057	3300 1% 1/4W	QRA14CF-3301Y	-
R9101	4.7 10% 7W	QRZ0216-4R7	-
# R9199	6.8M 10% 1/2W	QRZ9046-685Z	-
# R9201	8.2 10% 2W	QRZ9055-8R2	Fusible
R9205	4.7 10% 7W	QRZ0216-4R7	-
# R9210	6.8M 10% 1/2W	QRZ9046-685Z	-
R9501, 02	10K 5% 3W	QRL03EJ-103X	-
R9542	.22 5% 5W	QRM059J-R22	-
# RY9001, 02	Relay	QSK0162-001	-
S7701	Tact Switch	QSW1131-001Z	Channel -
S7702	Tact Switch	QSW1131-001Z	Channel +
S7703	Tact Switch	QSW1131-001Z	Menu/OK
S7704	Tact Switch	QSW1131-001Z	TV/VIDEO
S7705	Tact Switch	QSW1131-001Z	Volume +
S7706	Tact Switch	QSW1131-001Z	Volume -
S7707	Tact Switch	QSW1131-001Z	Power
SP1, 2	Speaker	LC41913-006A-C	-
# T9001	Switching	QQS0341-001	-
# T9201	Switching	QQS0363-002	-
# T9501, 02	Switching	QQS0347-003	-
# TU3001	Tuner MD001	QAU0467-001	-
# VA9001	Varistor	QAF0060-621	620V
#	LCD Panel	QLD0439-001-JIM	Panel
#	PC Board	SFL-1312A-M2	Analog
#	PC Board	SSD-2204A-M2	ATSC Tuner
#	PC Board	SFL-6302A-M2	D-Amp
#	PC Board	SFL-9161A-M2	DC-DC
#	PC Board	SFL0D189A-M2	Digital
#	PC Board	SFL-8712A-M2	LED
#	PC Board	SFL-9060A-M2	Main Power
#	PC Board	SFL-2501A-M2	Optical
#	PC Board	SFL-1305A-M2	SD Card
#	PC Board	SFL-7210A-M2	SW
#	PC Board	SFL-9711A-M2	Sub Power
#	Transmitter	RM-C18G-1H	Remote

# For SAFETY use only equivalent replacement part.  
Use Lead Free Solder.