

ATTACHMENT K

CIRCUIT DESCRIPTION

Model No. : VCR2510

Brand: SANSUI

The device under application is a Video Cassette Recorder, which is operated by AC commercial power source (AC120V, 60Hz).

The unit contains circuitry for the Power supply, Luminance, Chrominance, System control, Servo, Operation, Head amp, Audio, Tuner and RF converter and so on.

RF Converter output is output in US 3ch or 4ch and Emission frequency is as follows.

Emission Frequency: US 3ch Video carrier: 61.25MHz

Audio carrier: 65.75MHz

US 4ch Video carrier: 67.25MHz

Audio carrier: 71.75MHz

Type of RF Input and Output Connector:

Type "F" Connector 75 ohm (Unbalanced)

The attached block diagram, ATTACHMENT L, describes the circuit functions.

FCC ID: A7RM4C7C

CIRCUIT DESCRIPTION
ATTACHMENT K

Product ID.Code: M4C7C
 (Model No.: VCR2510)
 Brand Name: SANSUI

TV RECEIVER APPLICATION CHECKLIST

- (X) 1. A statement identifying the production run plan we will be using to show compliance in meeting "TV Receiver, UHF Noise Figures Certification and Compliance Criteria" (July 1982).

: We will use the production run plan C to show compliance in meeting 14dB UHF Noise Figure requirement.

- (X) 2. A statement that NF measurements were made pursuant to OST MP-2, July 1982.

: NF measurements were made pursuant to OST BULLETIN MP-2, July 1982.

- (X) 3. The names of all manufacturing sources for the VHF and UHF tuners as well as the tuner manufacture's part No.

Product ID. Code (Model No.)	VHF/UHF 1 PACK TUNER	
	PART NO.	SOURCE
M4C7C(VCR2510)	0162600016	ALPS

- (X) 4. UHF and VHF tuner part numbers assigned by the receiver manufacturer.

: There are no tuner part assigned by receiver manufacturer.

(X) 5. Frequency bands tuned by receiver.

VHF : 2 - 13 ch

UHF : 14- 69 ch

CATV : 1 -125 ch(101 - 845MHz)

(X) 6. Pursuant to Section 15.117 of the Rules, a statement specifying the receiver design noise figure, in dB.

: Because TV Tuner built in as part of a video tape recorder which uses a power splitter between the antenna terminals of the video tape recorder and input terminals of the TV Tuner, the limits of Noise Figure, pursuant to section 15.117(g)(4), complies with the limits subtracted 4dB from 14dB.

() 7. The length of the UHF lead, from antenna input terminal to the tuner.

:

(X) 8. A numbered electrical schematic for the receiver.

: Attached

(X) 9. The exact chassis number (MFR'S Model No. instead of chassis No.)
(This number is classified with SUFFIX in order to show voltage difference, Radio band difference and so on.)

: Mfr's No. : M4C7C

()10. Picture tube size in inches.

:

(X)11. Type of receiver - color or black and white.

: Color

(X)12. A description of the cabinet material.

: plastic and metal cover

()13. Copy of all the information submitted with the original certification for the basic receiver.

:Attached

(X)14. A statement that the contribution not exceed 0.3dB for the channel.

$$\Delta F(\text{dB}) = 10 \cdot \log_{10} \left[1 + \frac{F2 - 1}{G1F1} \right]$$

where

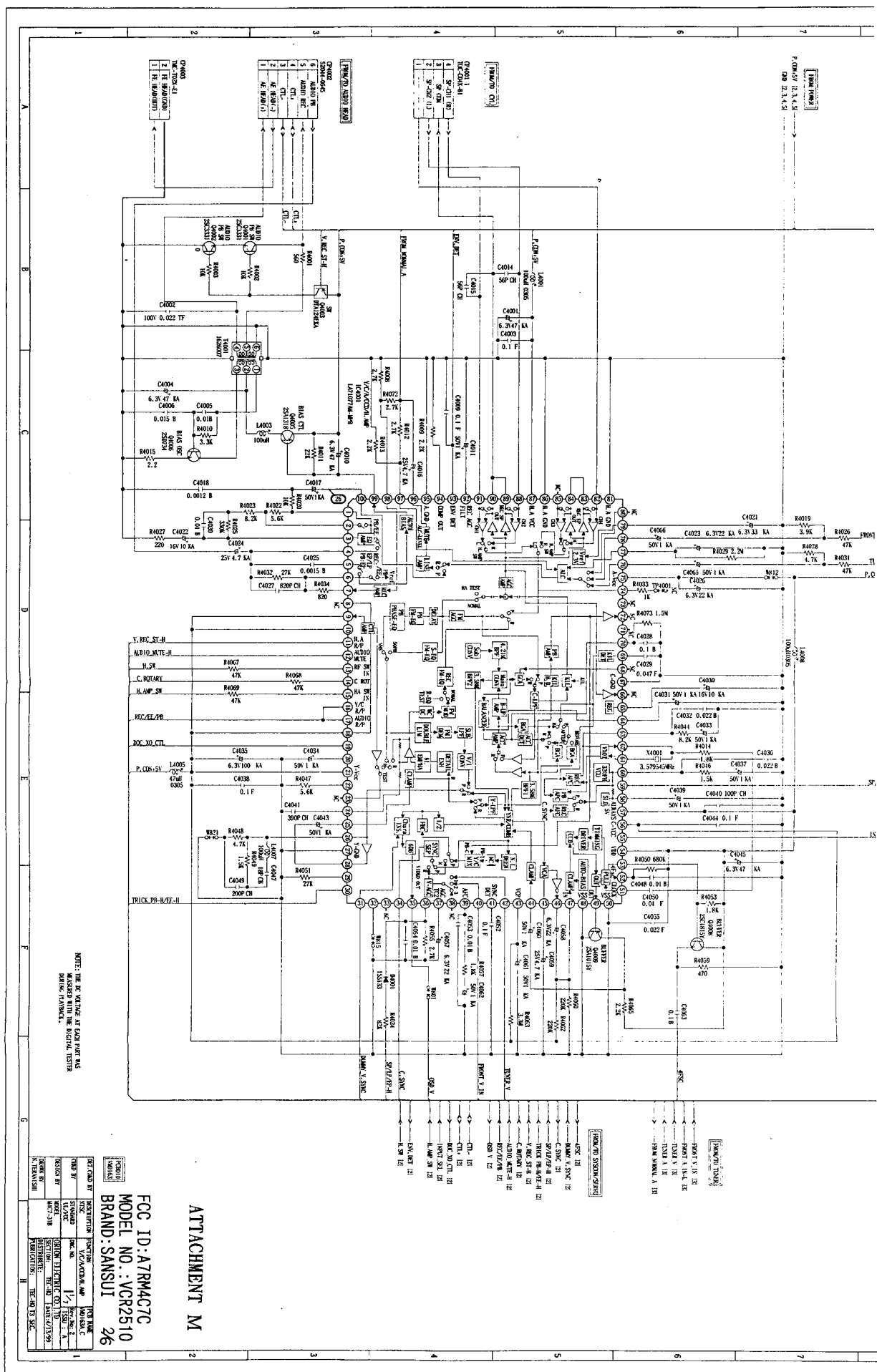
F1 : 7.0 dB ----- typical value

F2 : 8.5 dB ----- N.F. indicator (I.F. Noise Figure)
* See ATTACHMENT H 2/4

G1 : 39.0 dB ----- See ATTACHMENT H 2/4

$$\Delta F = 10 \cdot \log_{10} 1.014 = 0.060 \text{ dB}$$

The contribution does not exceed 0.3dB, so, neglected.

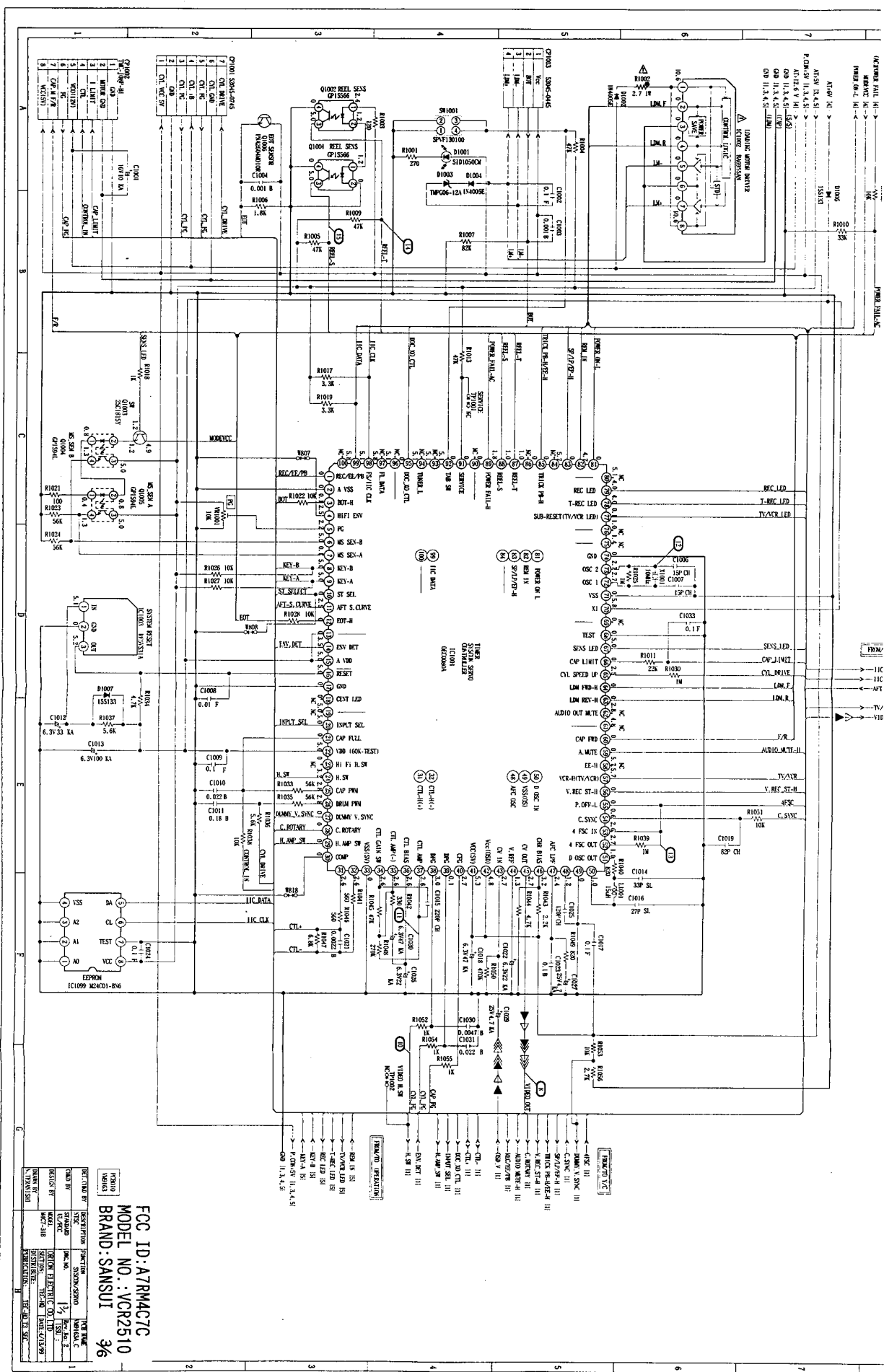


NOTE: THE DC VOLTAGE AT EACH PART WAS
MEASURED WITH THE DIGITAL TESTER
DURING TOLERANCE.

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	POWER SUPPLY	1	PCB
2	CONTROL	1	PCB
3	MOTOR	1	PCB
4	TESTER	1	PCB
5	WIRE	1	PCB
6	WIRE	1	PCB
7	WIRE	1	PCB
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97	WIRE	1	PCB
98	WIRE	1	PCB
99	WIRE	1	PCB
100	WIRE	1	PCB

ATTACHMENT M

FCC ID: A7RMAC7C
MODEL NO.: VCR2510
BRAND: SANSUI



FCC ID: A7RMC7C
 MODEL NO.: VCR2510
 BRAND: SANSUI 36



NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: SINCE THESE PARTS MOUNTED BY A.M.E.
CRITICAL FOR SAFETY, USE ONLY
INSTRUCTIONS IN PARTS LIST ONLY.

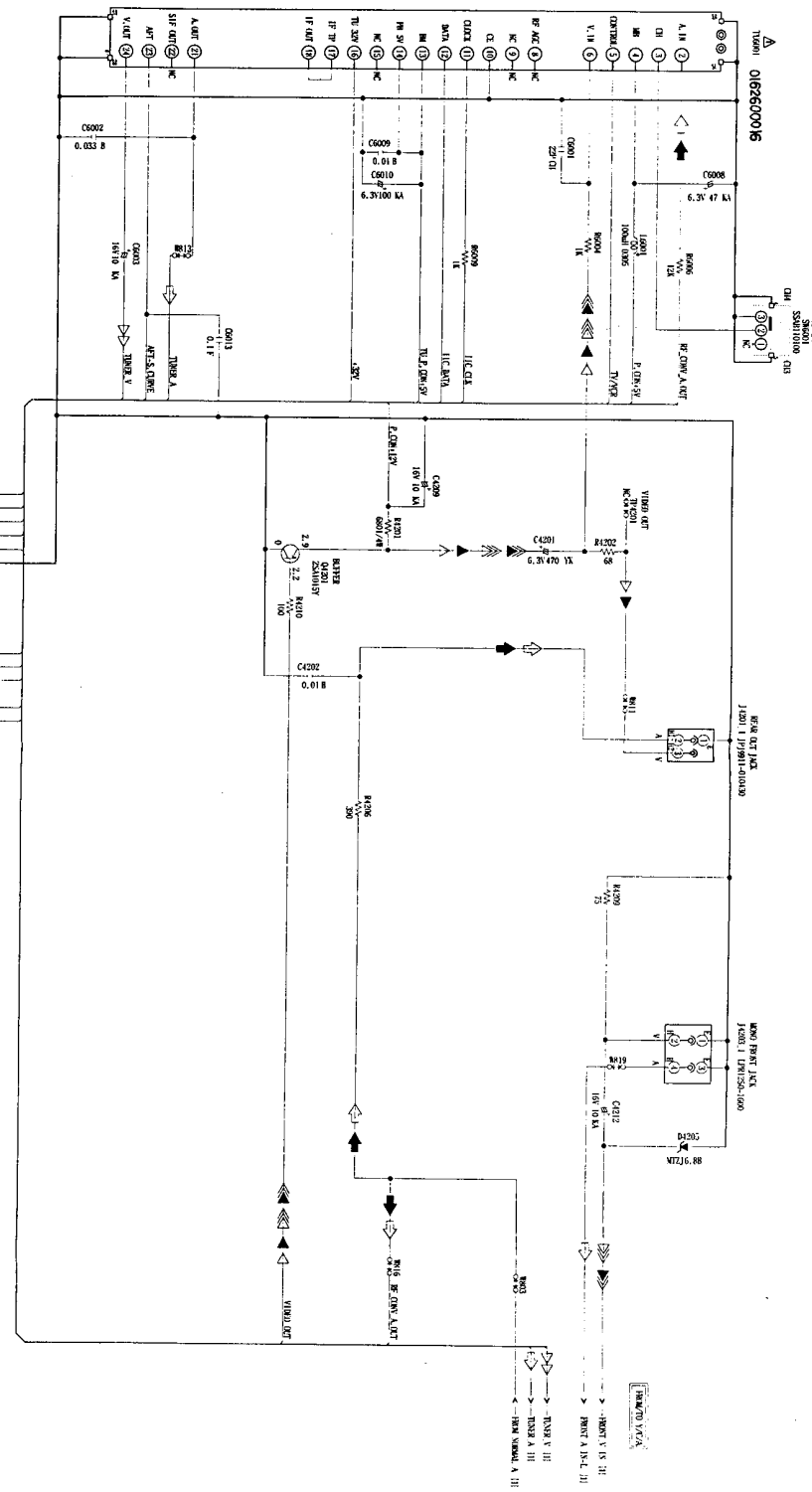
ATTENTION: THE PHOTOS BEHAVIOR IN THE
MOUNTING AND GIVE IN THE SCHEMATIC
DAYS IN A MOUNTING THERE ARE PHOTOS.

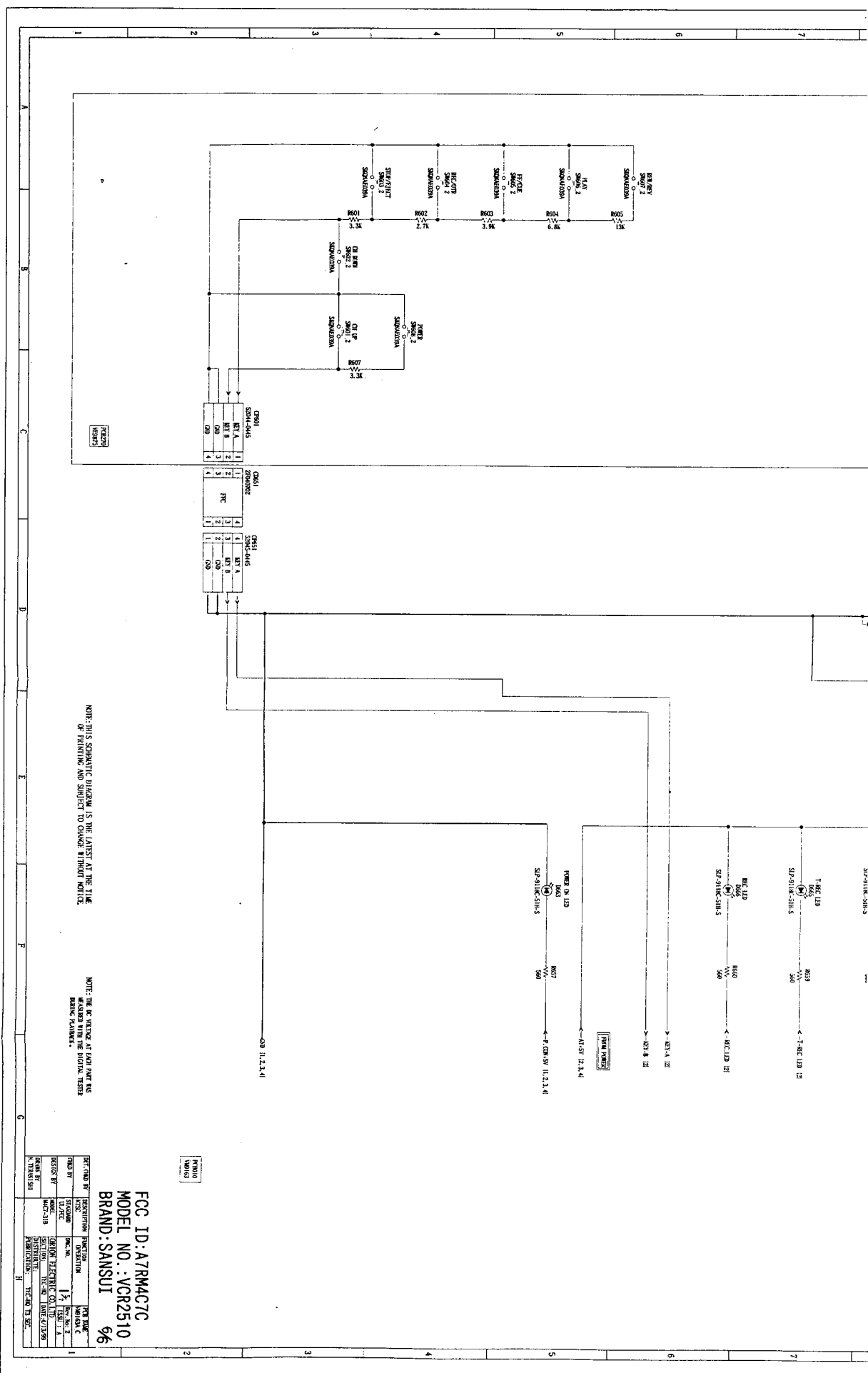
▶ PLAYBACK LUMINANCE SIGNAL
◀ RECORD LUMINANCE SIGNAL
◀ RECORD COLOR SIGNAL
▶ AUDIO SIGNAL (PB)
◀ TUNER VIDEO SIGNAL

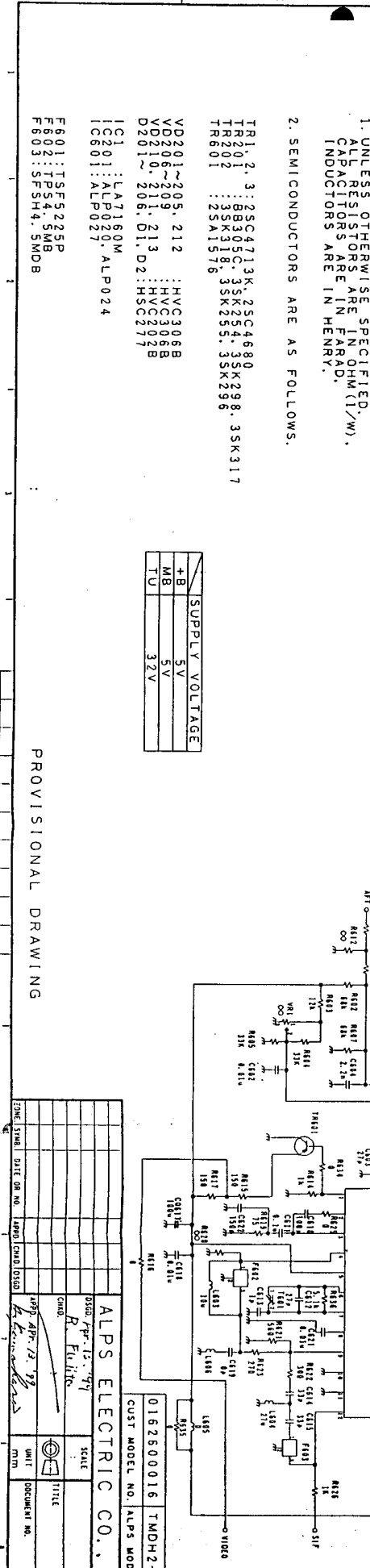
▶ RECORD LUMINANCE SIGNAL
◀ RECORD COLOR SIGNAL
▶ AUDIO SIGNAL (PB)
◀ TUNER VIDEO SIGNAL

ITEM	DESCRIPTION	REMARKS
1	IC: 74LS00	NOTES: 1. 74LS00
2	IC: 74LS01	NOTES: 2. 74LS01
3	IC: 74LS02	NOTES: 3. 74LS02
4	IC: 74LS03	NOTES: 4. 74LS03
5	IC: 74LS04	NOTES: 5. 74LS04
6	IC: 74LS05	NOTES: 6. 74LS05
7	IC: 74LS06	NOTES: 7. 74LS06
8	IC: 74LS07	NOTES: 8. 74LS07
9	IC: 74LS08	NOTES: 9. 74LS08
10	IC: 74LS09	NOTES: 10. 74LS09
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97	IC: 74LS96	NOTES: 97. 74LS96
98	IC: 74LS97	NOTES: 98. 74LS97
99	IC: 74LS98	NOTES: 99. 74LS98
100	IC: 74LS99	NOTES: 100. 74LS99

FCC ID: A7RMAC7C
MODEL NO.: VCR2510
BRAND: SANSUI 46







2. SEMICONDUCTORS ARE AS FOLLOWS.

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VD201~205. 212 : HVC306B
VD206~209. 213 : HVC306B
VD210. 211. 213 : HVC202B
D201~ 206. 01. D2 : HSC277

IC1 : LA7160M
IC201: ALP020. ALP024
IC601: ALP027

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F601:TSF5225P
F602:TP54.5MB
F603:SF5H4.5MDB
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TUNED DEMODULATOR AND DE-COMVERTED CIRCUIT DIAGRAM

|                                                                                              |  |                                            |  |
|----------------------------------------------------------------------------------------------|--|--------------------------------------------|--|
| COST MODEL NO./ALPS MODEL NO.                                                                |  | ALPS ELECTRIC CO., LTD                     |  |
| SCALE                                                                                        |  | 0.010 Apr. 13, '99<br>R. F. Little<br>CND. |  |
| <br>TITLE |  | 0057 APR. 13, '99<br>R. F. Little<br>CND.  |  |
| DOCUMENT NO.                                                                                 |  | DATE OF NO.<br>0490 CND. DISO              |  |
| UNIT                                                                                         |  | DATE OF NO.                                |  |
| MM                                                                                           |  | DATE OF NO.                                |  |