

CIRCUIT DESCRIPTION

Model No.: VS-XN
Brand: ORION

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;

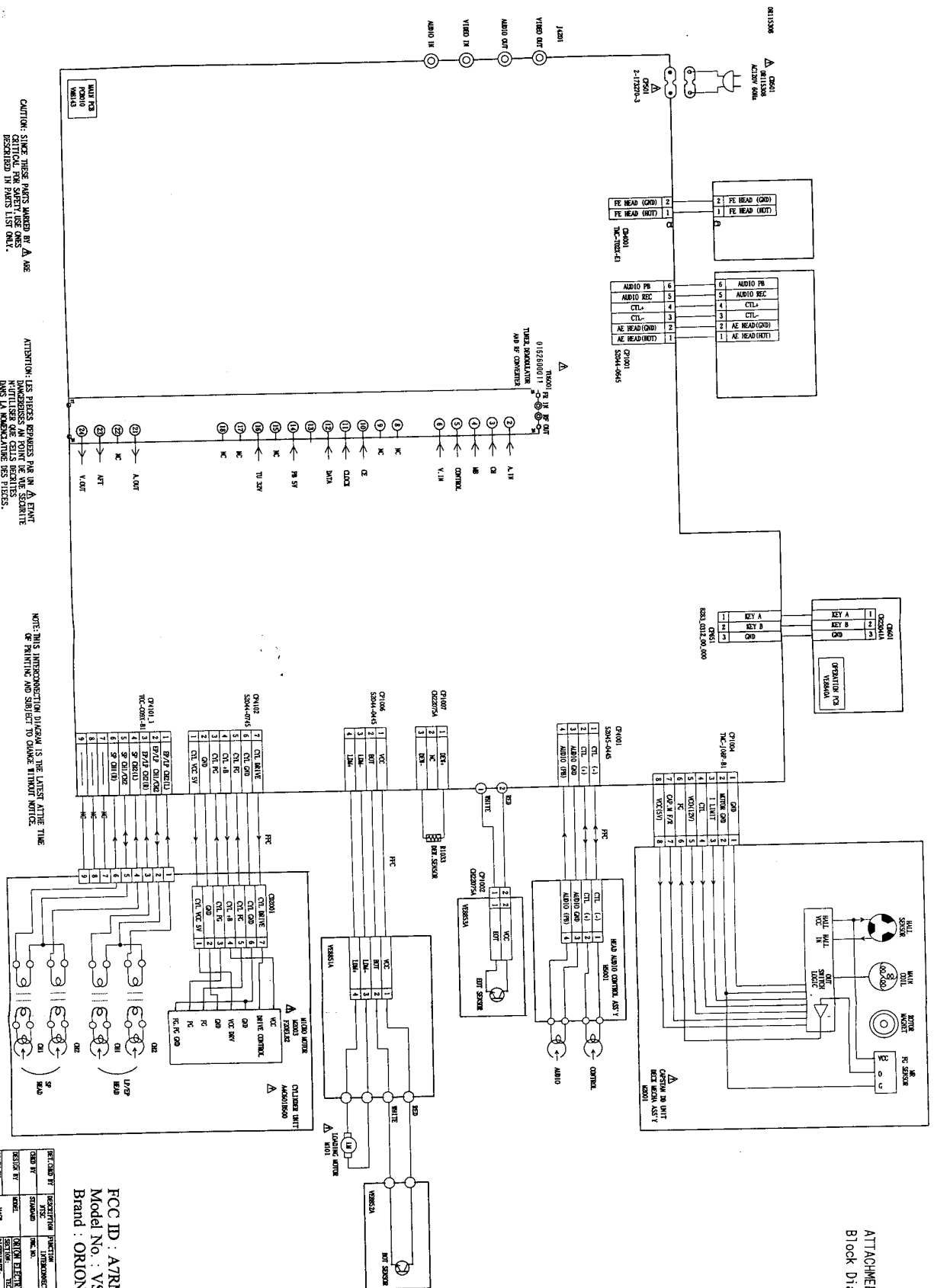
Type "F" Connector 75 ohm(Unbalanced)

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

FCC ID: A7RM4C8A

CIRCUIT DESCRIPTION
ATTACHMENT K

ATTACHMENT L Block Diagram



CAUTION: SINCE THESE PARTS WERE IN A AGE
REPAIR KIT, THEY MAY BE DIFFERENT
THAN THE ORIGINAL PARTS LIST ONLY.

ATTENTION: LES PIÈCES DÉPOSÉES PAR IN A ÉTAIENT
REPARATION KIT, ILS PEUVENT ÊTRE DIFFÉRENTS
DES PIÈCES D'ORIGINE. VOUS ÊTES PRÉVENUS.

NOTE: THIS INTERCONNECTION DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SHOULD BE SHOWN TO MATCH WITHIN THE TIME.

REVISION	DESCRIPTION	DATE
1.0	INITIAL RELEASE	1978-01-10
1.1	REVISION 1.0	1978-01-10
1.2	REVISION 1.1	1978-01-10
1.3	REVISION 1.2	1978-01-10
1.4	REVISION 1.3	1978-01-10
1.5	REVISION 1.4	1978-01-10
1.6	REVISION 1.5	1978-01-10
1.7	REVISION 1.6	1978-01-10
1.8	REVISION 1.7	1978-01-10
1.9	REVISION 1.8	1978-01-10
2.0	REVISION 1.9	1978-01-10

FCC ID : A7RM4C8A
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ATTACHMENT M Circuit Diagram

- ▶ AUDIO SIGNAL (RE)
- ▶ AUDIO SIGNAL (PB)
- ▶ PLAYBACK COLOR SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL
- ▶ RECORD COLOR SIGNAL
- ▶ RECORD LUMINANCE SIGNAL

REF. NO.	DESCRIPTION	FUNCTION	UNIT
1	RECORDING	RECORDING	RECORDING
2	RECORDING	RECORDING	RECORDING
3	RECORDING	RECORDING	RECORDING
4	RECORDING	RECORDING	RECORDING
5	RECORDING	RECORDING	RECORDING
6	RECORDING	RECORDING	RECORDING
7	RECORDING	RECORDING	RECORDING
8	RECORDING	RECORDING	RECORDING
9	RECORDING	RECORDING	RECORDING
10	RECORDING	RECORDING	RECORDING

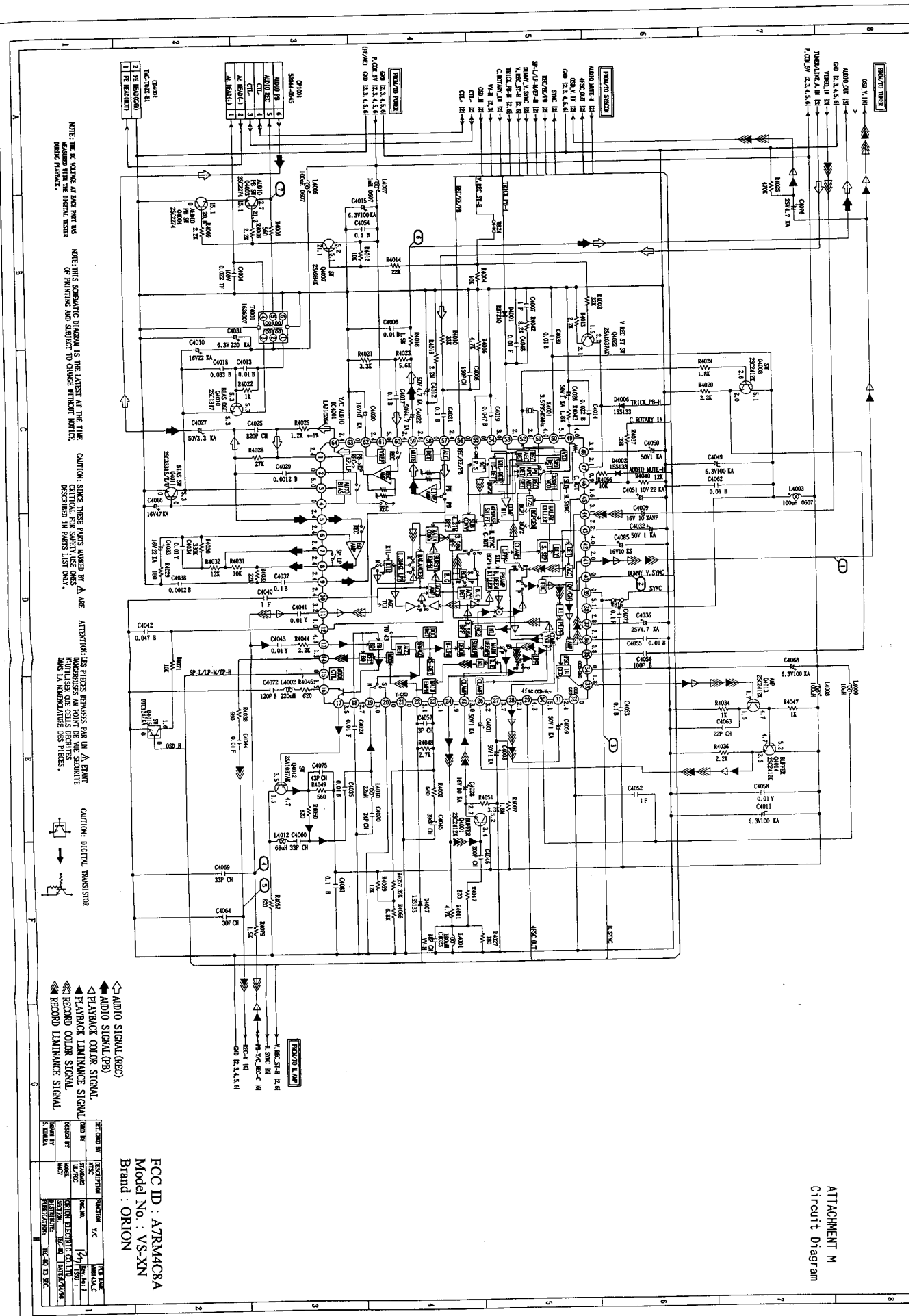
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Model No.: VS-XN
Brand: ORION

NOTE: THE IC MARKING AT EACH PART HAS
BEEN REPRODUCED WITH THE DIGITAL TESTER
MARKING PLAYSBACK.

CAUTION: SOME PARTS MARKED BY A Δ ARE
REPRODUCED IN THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

ATTENTION: THE PARTS MARKED BY A Δ ARE
REPRODUCED IN THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

CAUTION: DIGITAL TRANSISTOR



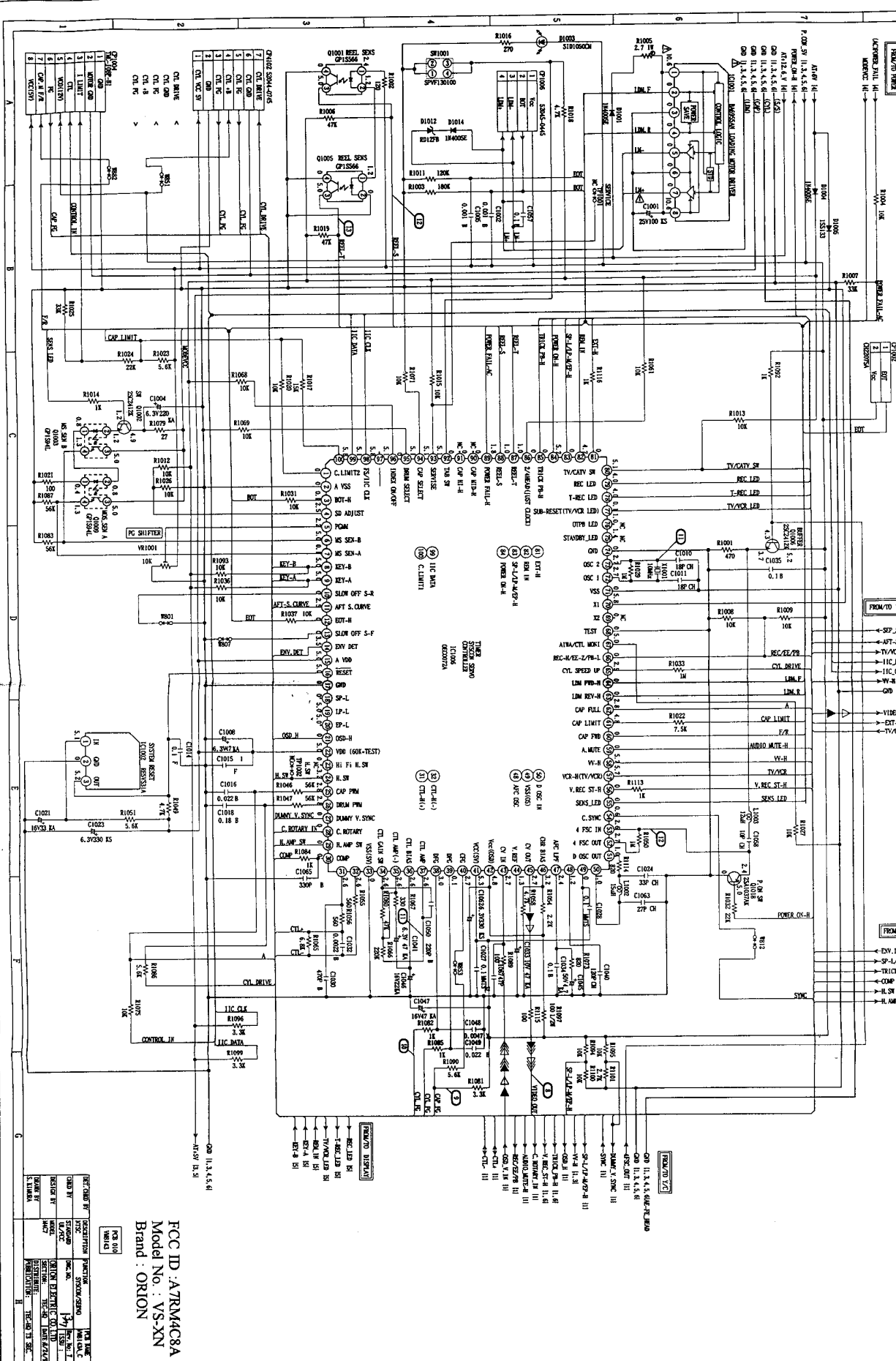
ATTENTION: LES PIÈCES SPÉCIFIÉES PAR UN A. SONT
NUMÉROUS À UN POINT DE VUE SÉRIÉ
N'UTILISER QUE LES SÉRIES
DANS LA NOMBREMENT DES PIÈCES.

CAUTION: SINCE THESE PARTS MARKED BY A ARE
CRITICAL FOR SAFETY, USE ONLY
THOSE DESCRIBED IN PARTS LIST ONLY.

NOTE: THE K. VOLTAGE AT EACH PART HAS
BEEN MEASURED WITH THE DIGITAL TESTER
BASIC PLASMA.

OF FEATURES AND SUBJECT TO CHANGE WITHOUT NOTICE.

▶ PLAYBACK COLOR SIGNAL
▶ RECORD LUMINANCE SIGNAL
▶ PLAYBACK LUMINANCE SIGNAL



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NOTE: THE DC VOLTAGE AT EACH POINT MAY VARY SLIGHTLY FROM THE VALUES INDICATED DUE TO MANUFACTURING TOLERANCES.

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

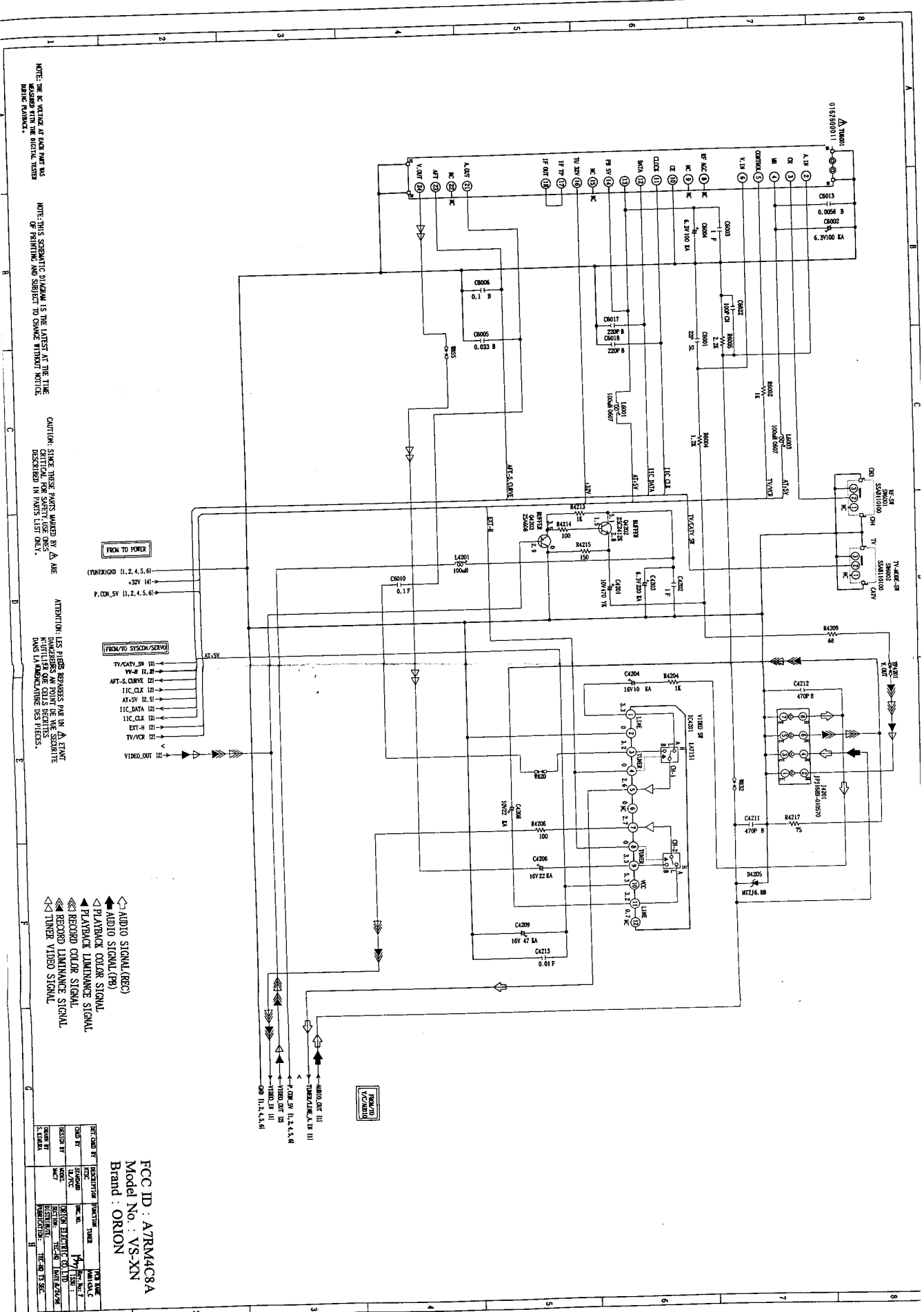
CAUTION: SINCE THESE PARTS WERE MADE BY A NAME NOT LISTED, THEY MAY BE DIFFERENT FROM THE PARTS DESCRIBED IN PARTS LIST ONLY.

ATTENTION: LET PLEAS BEWARE OF THE LINE A-TENT THAT INDICATES THE LOCATION OF THE PARTS LISTED IN THE PARTS LIST ONLY.

- ▶ AUDIO SIGNAL (REC)
- ▶ AUDIO SIGNAL (TR)
- ▶ PLAYBACK COLOR SIGNAL
- ▶ PLAYBACK LUMINANCE SIGNAL
- ▶ RECORD COLOR SIGNAL
- ▶ RECORD LUMINANCE SIGNAL
- ▶ TUNER VIDEO SIGNAL

DATE	BY	REVISION	FUNCTION
1977	1	1	INITIAL C
1977	2	1	REVISION
1977	3	1	REVISION
1977	4	1	REVISION
1977	5	1	REVISION
1977	6	1	REVISION
1977	7	1	REVISION
1977	8	1	REVISION
1977	9	1	REVISION
1977	10	1	REVISION

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CAUTION: THE CONTAINED INFORMATION IS UNCLASSIFIED
 (U) AND IS NOT TO BE RELEASED TO THE PUBLIC
 WITHOUT THE WRITTEN AUTHORIZATION OF THE
 FBI. THE 1.6A 250V (150V).

NOTE: THE DC VOLTAGE AT EACH POINT WAS
 MEASURED WITH THE METER IN THE
 NORMAL POSITION.

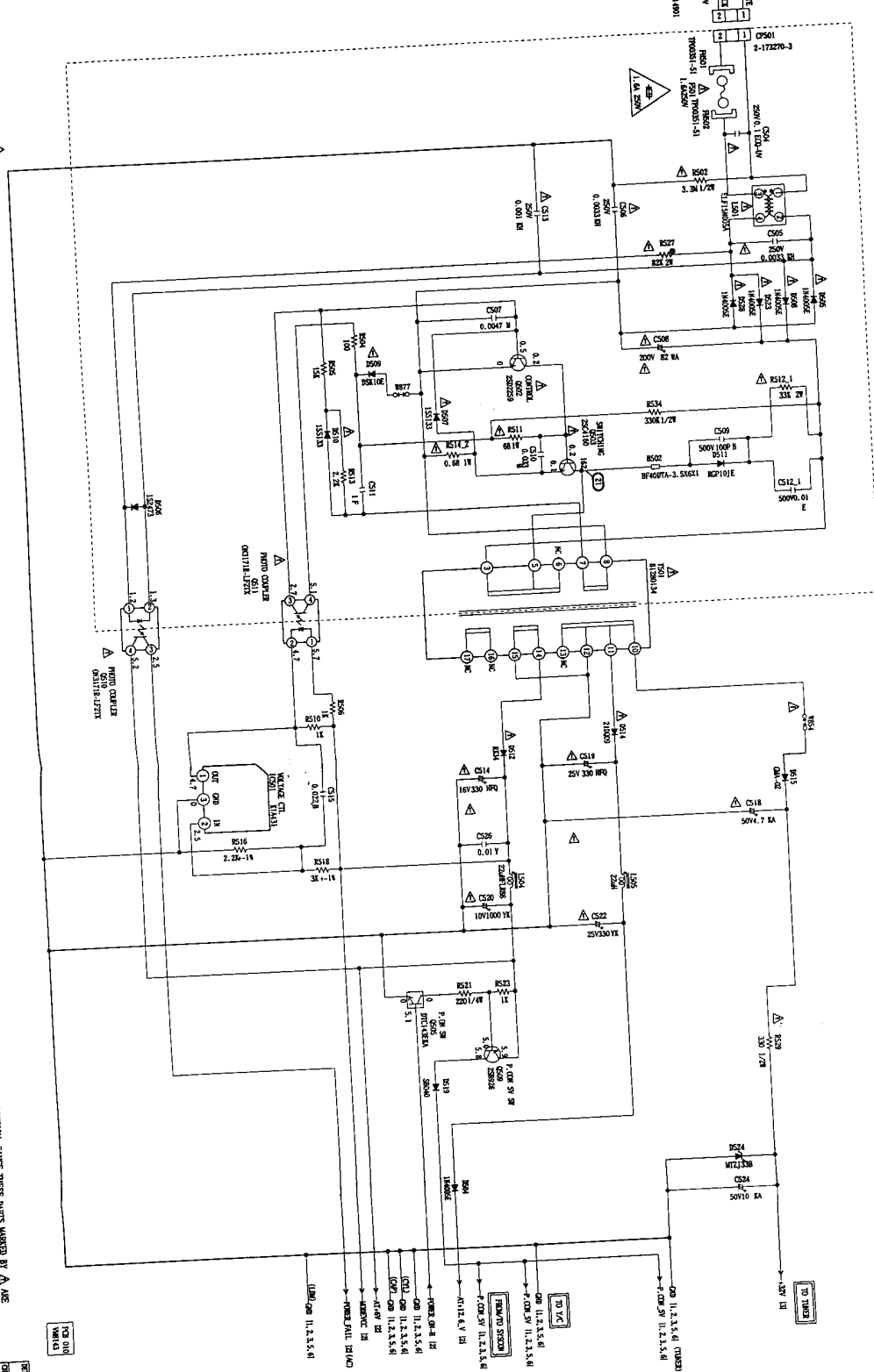
NOTE: THIS SCHEMATIC DIAGRAM IS THE LATEST AT THE TIME
 OF PRINTING AND SUBJECT TO CHANGE WITHOUT NOTICE.

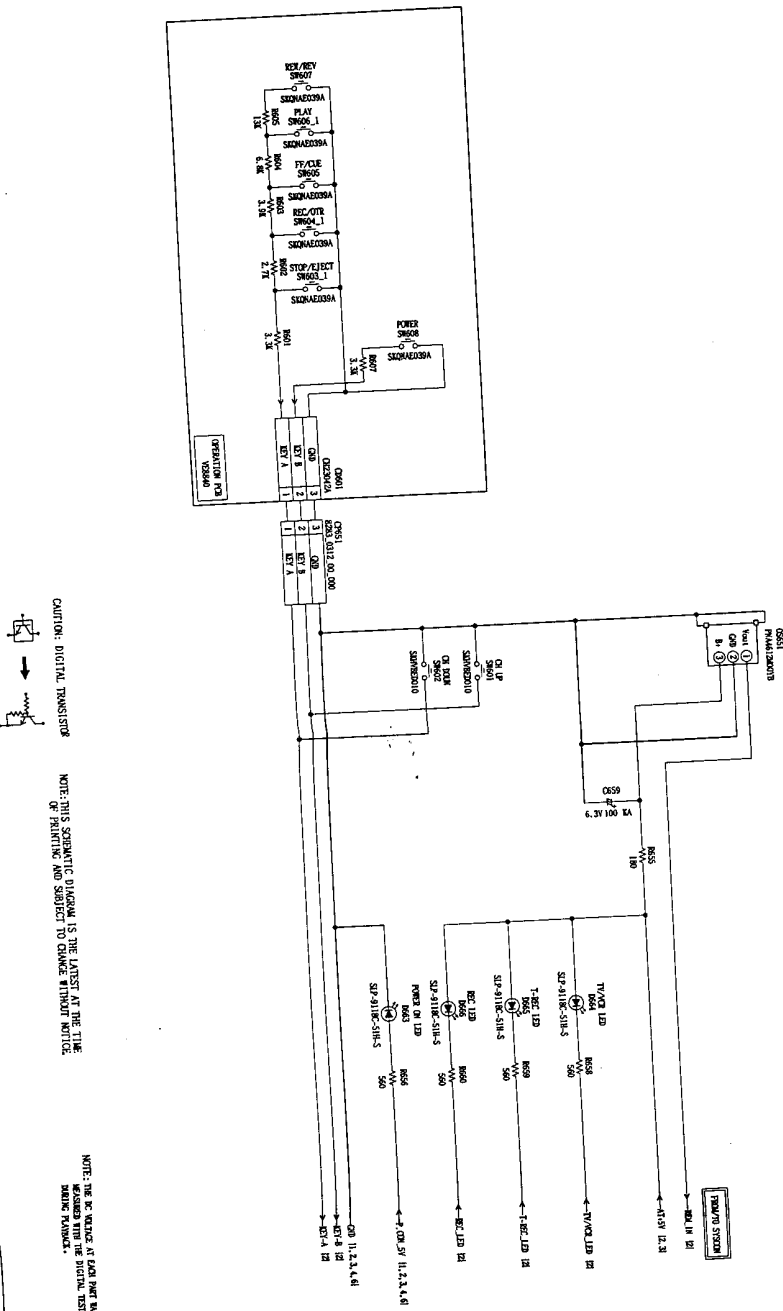
ATTENTION: LES PIÈCES REPÉRÉES PAR UN Δ ET/OU
 D'ALIMENTATION, EN POINTS DÉFINIS
 N'ONT PAS ÉTÉ MESURÉES, SONT
 DÉSIGNÉES PAR DES PIÈCES.

CAUTION: SINCE THESE PARTS WERE MADE BY A
 DIFFERENT MANUFACTURER, THE
 DIMENSIONS IN PARENTS LIST ONLY.

REV.	DATE	DESCRIPTION	BY	CHK.
1	10/10/00	INITIAL DESIGN	W. J.	
2	10/10/00	REVISION	W. J.	
3	10/10/00	REVISION	W. J.	
4	10/10/00	REVISION	W. J.	
5	10/10/00	REVISION	W. J.	
6	10/10/00	REVISION	W. J.	
7	10/10/00	REVISION	W. J.	
8	10/10/00	REVISION	W. J.	

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 Brand: ORION





CAUTION: DIGITAL TRANSISTOR

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

NOTE: THE AC VOLTAGE AT EACH PART HAS
 BEEN MEASURED WITH THE DIGITAL METER
 MODEL 1000A.

REV.	DATE	BY	DESCRIPTION
1	10/1/77	W. J. H.	INITIAL RELEASE
2	10/1/77	W. J. H.	REVISION 1
3	10/1/77	W. J. H.	REVISION 2
4	10/1/77	W. J. H.	REVISION 3
5	10/1/77	W. J. H.	REVISION 4
6	10/1/77	W. J. H.	REVISION 5
7	10/1/77	W. J. H.	REVISION 6
8	10/1/77	W. J. H.	REVISION 7
9	10/1/77	W. J. H.	REVISION 8
10	10/1/77	W. J. H.	REVISION 9
11	10/1/77	W. J. H.	REVISION 10
12	10/1/77	W. J. H.	REVISION 11
13	10/1/77	W. J. H.	REVISION 12
14	10/1/77	W. J. H.	REVISION 13
15	10/1/77	W. J. H.	REVISION 14
16	10/1/77	W. J. H.	REVISION 15
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21	10/1/77	W. J. H.	REVISION 20
22	10/1/77	W. J. H.	REVISION 21
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59	10/1/77	W. J. H.	REVISION 58
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61	10/1/77	W. J. H.	REVISION 60
62	10/1/77	W. J. H.	REVISION 61
63	10/1/77	W. J. H.	REVISION 62
64	10/1/77	W. J. H.	REVISION 63
65	10/1/77	W. J. H.	REVISION 64
66	10/1/77	W. J. H.	REVISION 65
67	10/1/77	W. J. H.	REVISION 66
68	10/1/77	W. J. H.	REVISION 67
69	10/1/77	W. J. H.	REVISION 68
70	10/1/77	W. J. H.	REVISION 69
71	10/1/77	W. J. H.	REVISION 70
72	10/1/77	W. J. H.	REVISION 71
73	10/1/77	W. J. H.	REVISION 72
74	10/1/77	W. J. H.	REVISION 73
75	10/1/77	W. J. H.	REVISION 74
76	10/1/77	W. J. H.	REVISION 75
77	10/1/77	W. J. H.	REVISION 76
78	10/1/77	W. J. H.	REVISION 77
79	10/1/77	W. J. H.	REVISION 78
80	10/1/77	W. J. H.	REVISION 79
81	10/1/77	W. J. H.	REVISION 80
82	10/1/77	W. J. H.	REVISION 81
83	10/1/77	W. J. H.	REVISION 82
84	10/1/77	W. J. H.	REVISION 83
85	10/1/77	W. J. H.	REVISION 84
86	10/1/77	W. J. H.	REVISION 85
87	10/1/77	W. J. H.	REVISION 86
88	10/1/77	W. J. H.	REVISION 87
89	10/1/77	W. J. H.	REVISION 88
90	10/1/77	W. J. H.	REVISION 89
91	10/1/77	W. J. H.	REVISION 90
92	10/1/77	W. J. H.	REVISION 91
93	10/1/77	W. J. H.	REVISION 92
94	10/1/77	W. J. H.	REVISION 93
95	10/1/77	W. J. H.	REVISION 94
96	10/1/77	W. J. H.	REVISION 95
97	10/1/77	W. J. H.	REVISION 96
98	10/1/77	W. J. H.	REVISION 97
99	10/1/77	W. J. H.	REVISION 98
100	10/1/77	W. J. H.	REVISION 99
101	10/1/77	W. J. H.	REVISION 100

FCC ID : A7RMAC8A
 Model No. : VS-XN
 Brand : ORION

DESCRIPTION	FUNCTION	FOR FILE
STANDARD	ENCLOSURE	
DATE	DATE	
BY	BY	
REVISION BY	REVISION BY	
MODEL	MODEL	
DATE	DATE	
DRAWN BY	DRAWN BY	
S. LINDA	S. LINDA	

