

**CAUTION**

FOR CONTINUED PROTECTION  
AGAINST FIRE REPLACE  
ONLY WITH SAME  
TYPE SAME RATING  
FUSE

94V-D  
CIRKOR P3X

**ATTENTION**

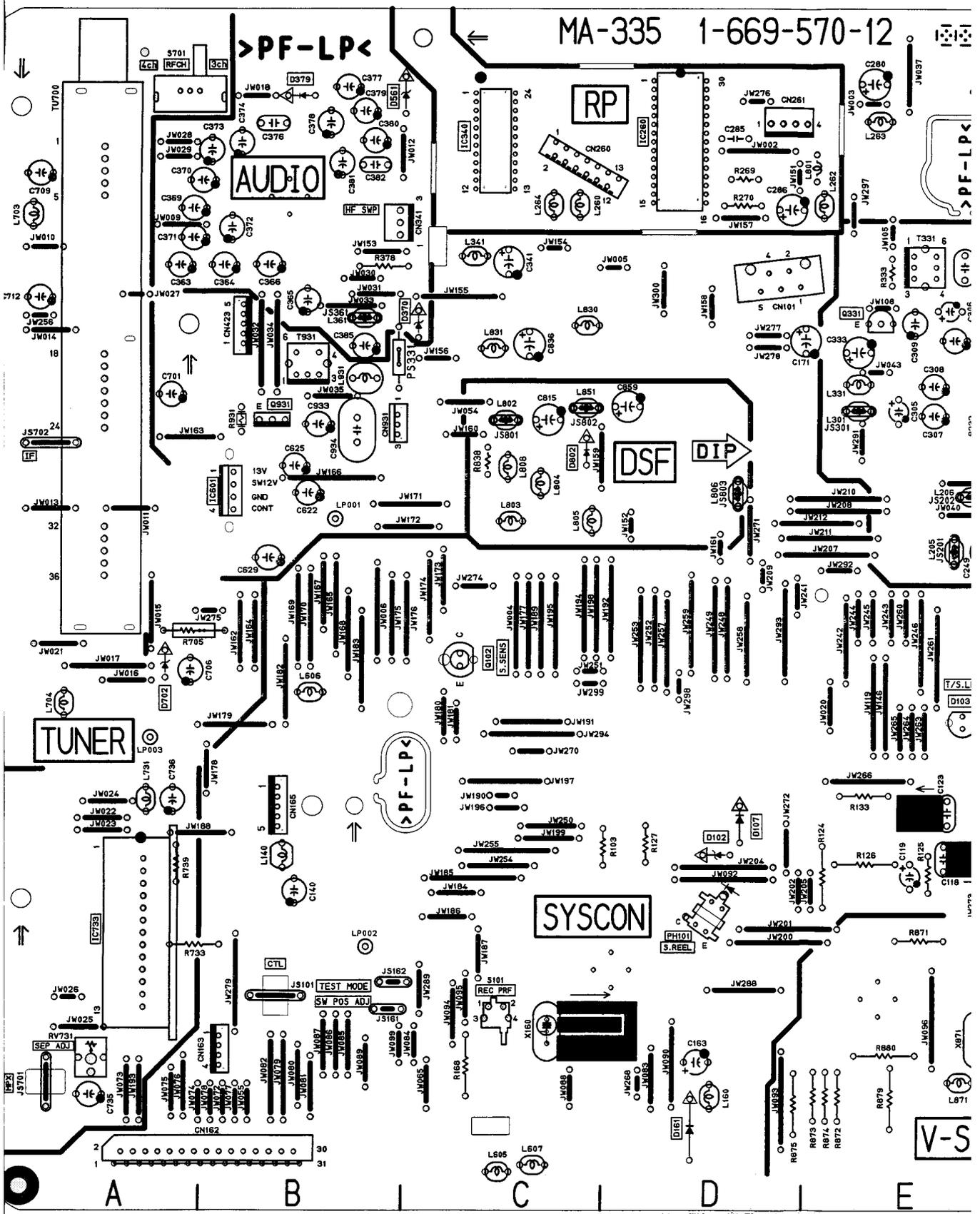
POUR LA PROTECTION  
CONTINUE  
LE FUSIBLE DE MEME

REPLACER SEULEMENT PAR  
TYPE ET DE MEME EVALUATION

SR821

M-9301-000-11

MA-335 1-669-570-12



TUNER

AUDIO

DSF

DIP

SYSCON

V-S

A

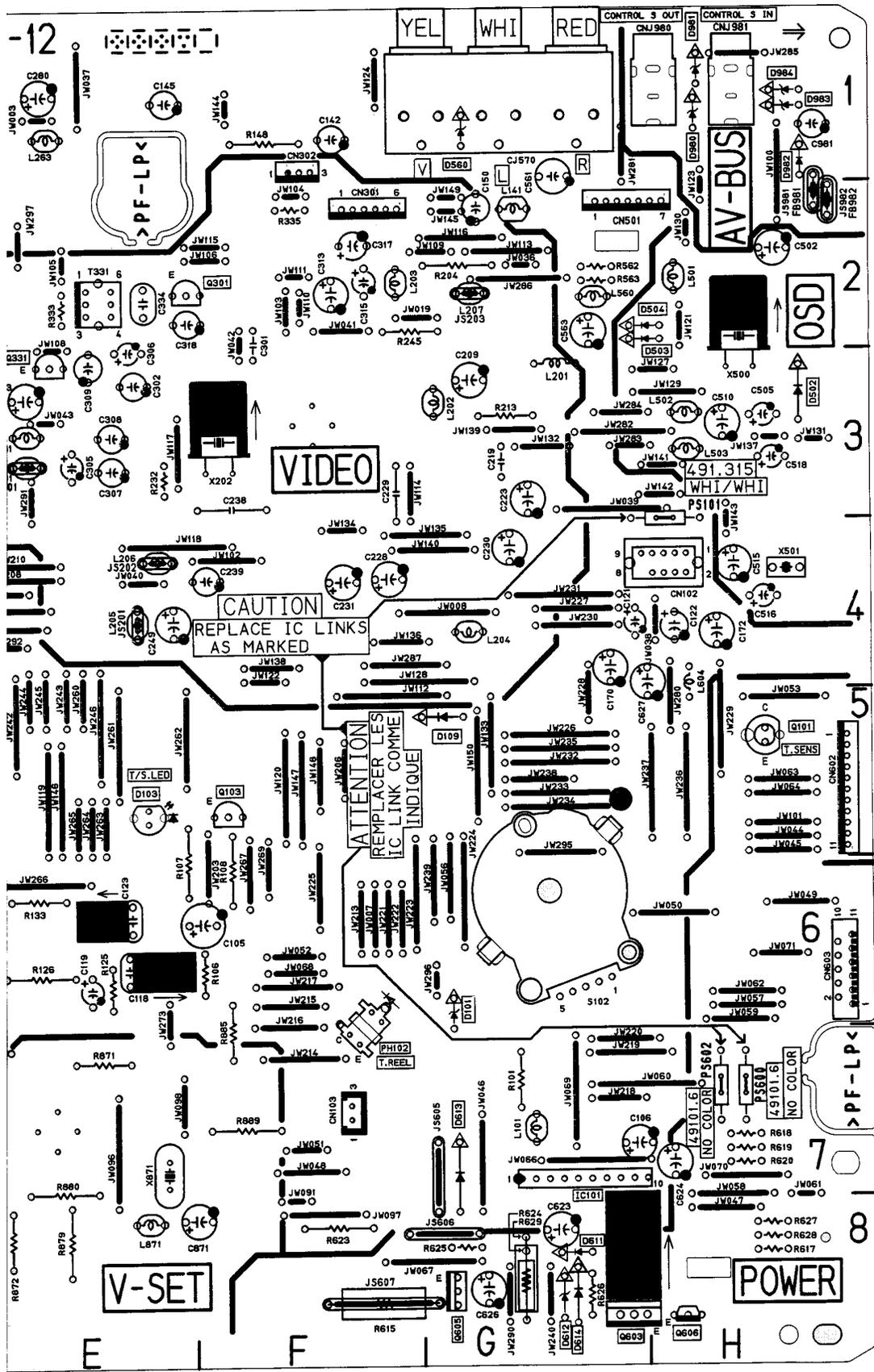
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C

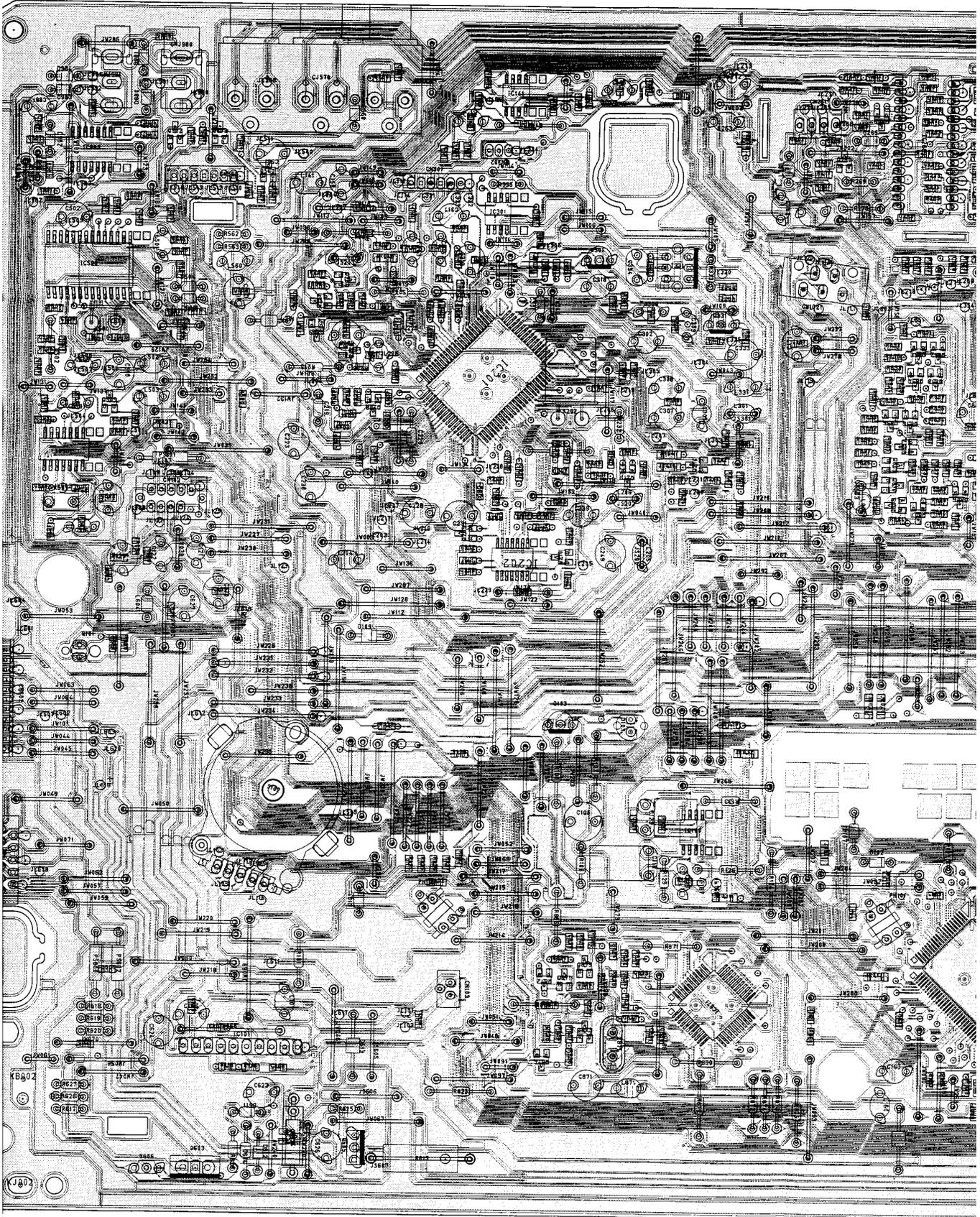
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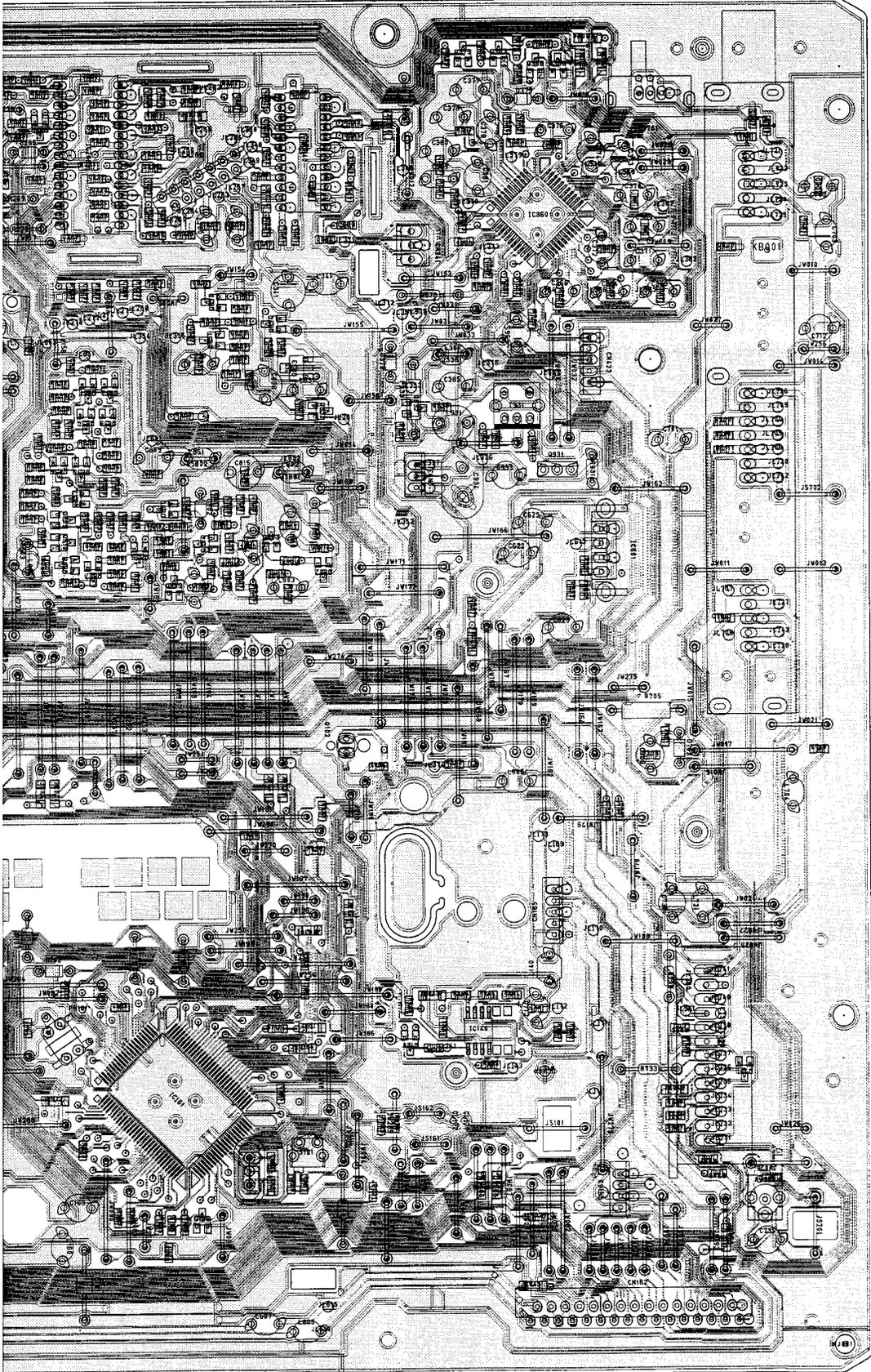
E





MA-335 (1/2)  
 M-9301-001-11



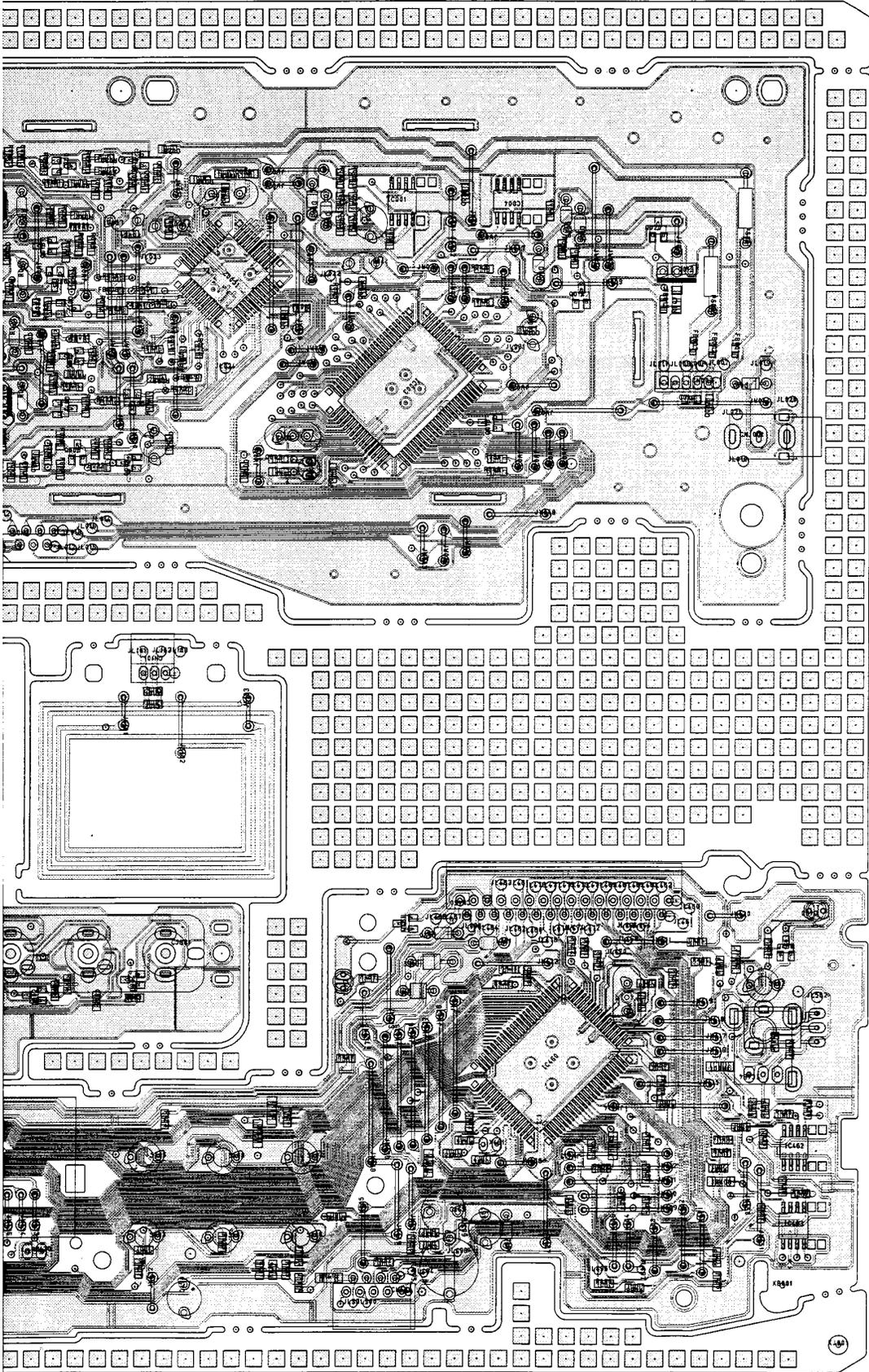


MA-335 (2/2)  
M-9301-001-21





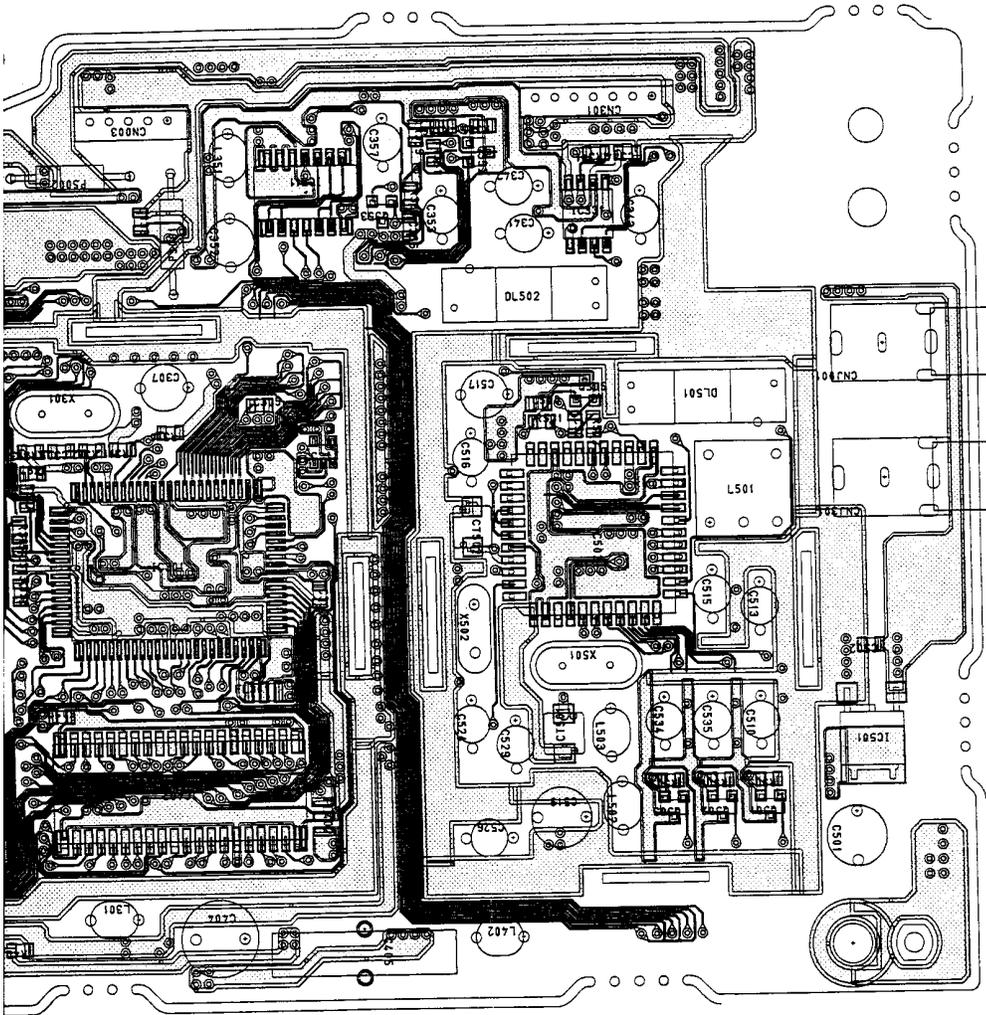




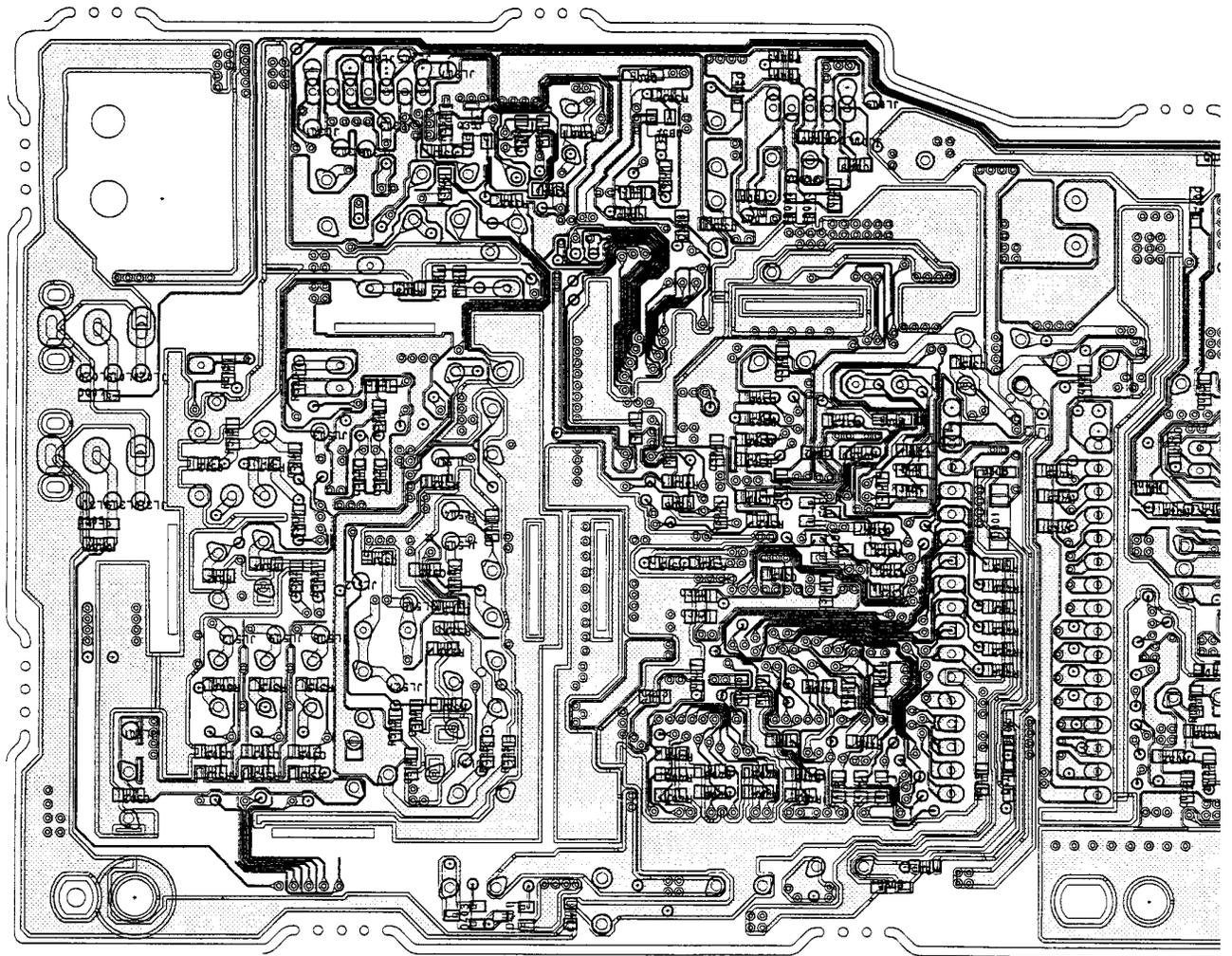
FR-139, DM-81, AJ-2,  
AN-16, AN-17, NL-2  
(2/2)

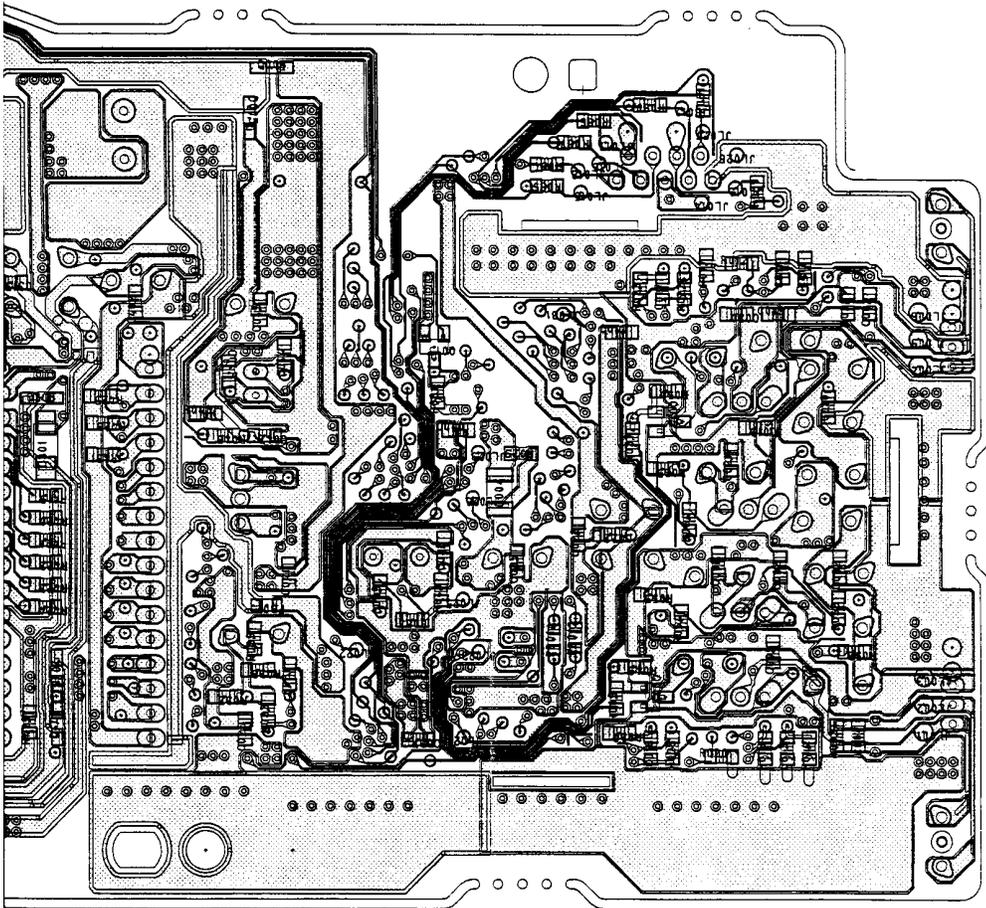
M-9301-002-21





MG-21 (1/2)  
M-9311-007-12





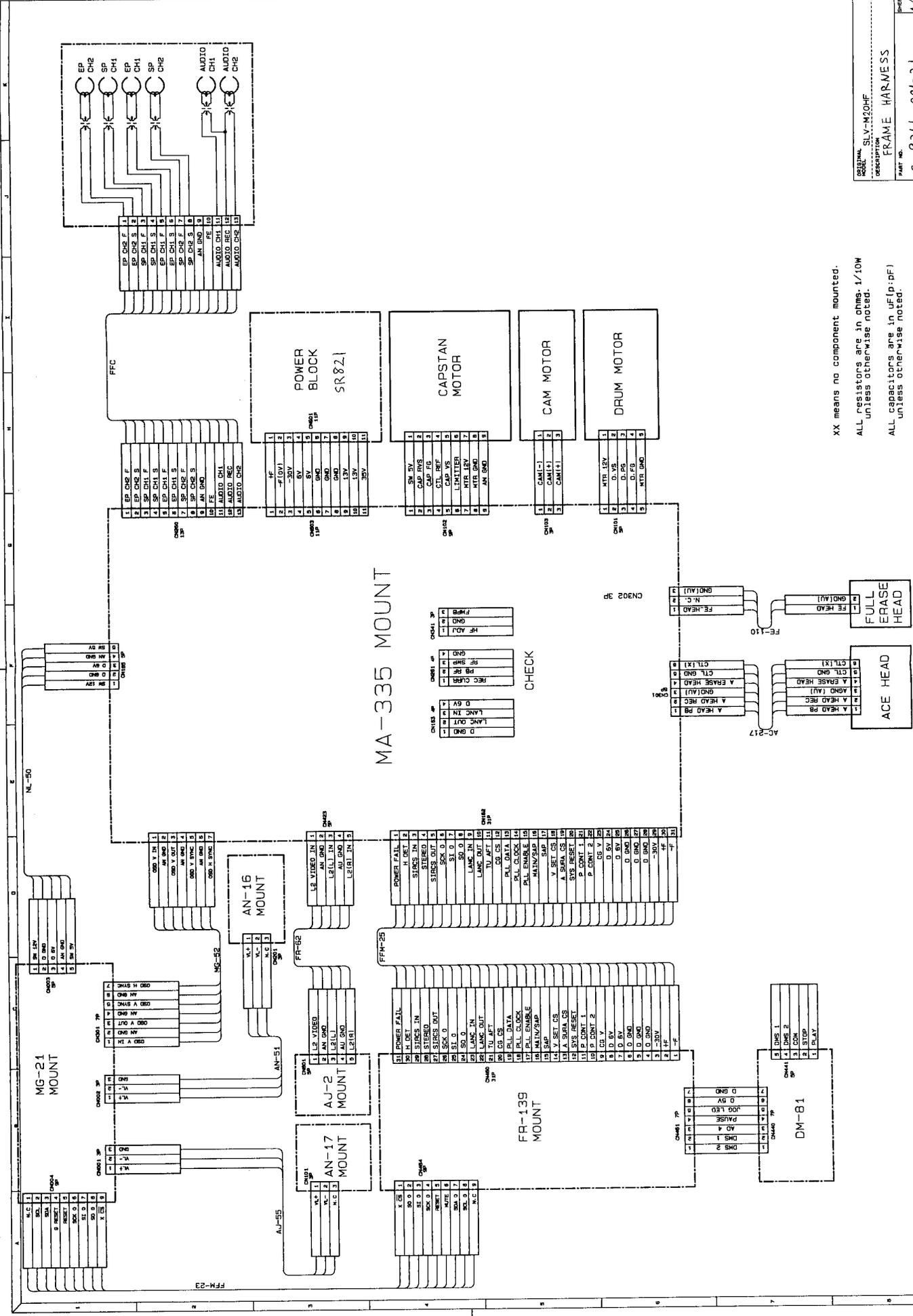
MG-21 (2/2)

M-9311-009-22

SCHMATIC DIAGRAM INDEX FOR MODEL: **SLV-M20HF**

(回路図リスト)

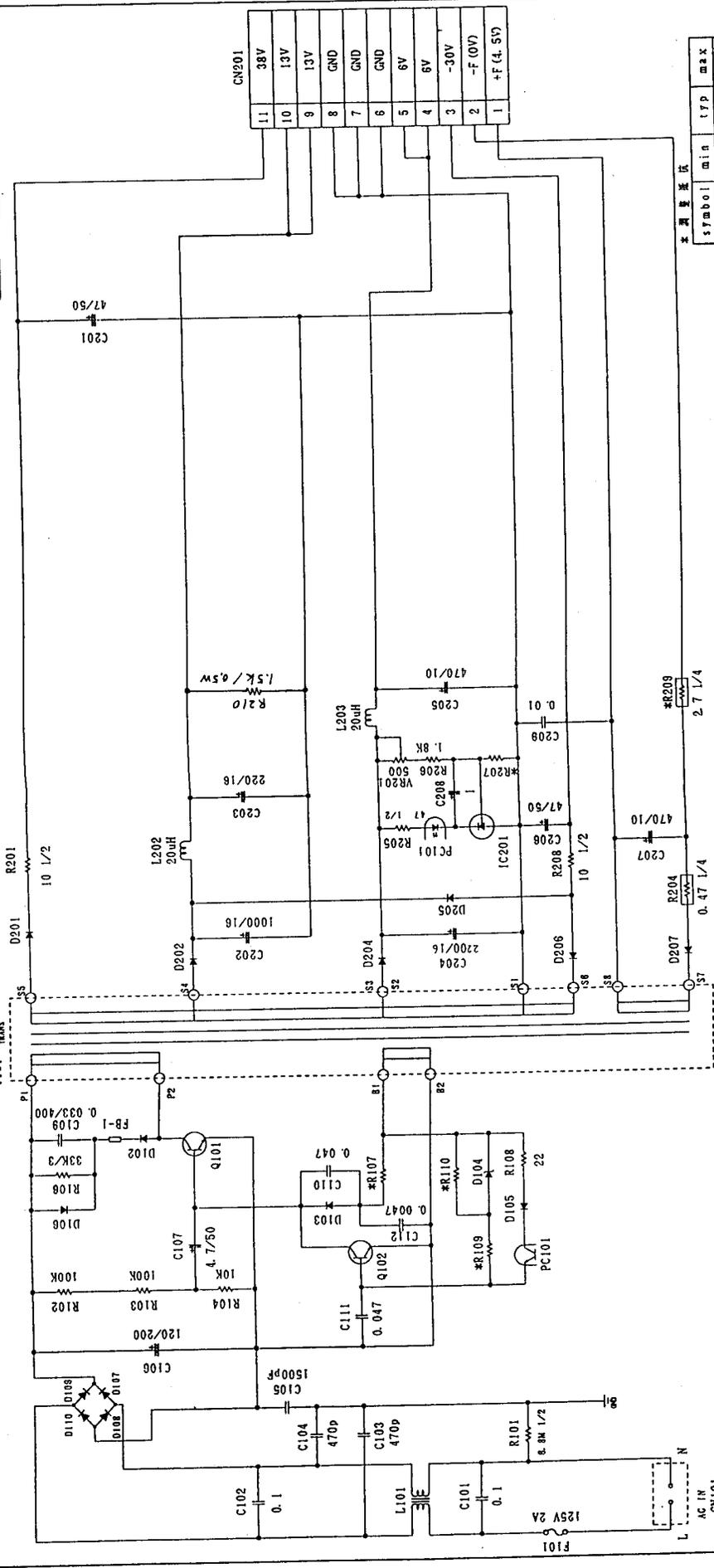
NO.	SCHEMATIC DIAGRAM (S NO)	NAME OF PWB				
1	S-9311-001-21	FRAME HARNESS				
2	S-9301-001-51	SR821 (POWER BLOCK)				
3	S-9301-002-11	MA-335 (1/10) PS				
4	S-9301-002-21	MA-335 (2/10) SS				
5	S-9301-002-31	MA-335 (3/10) VA				
6	S-9301-002-41	MA-335 (4/10) AU				
7	S-9301-002-51	MA-335 (5/10) TU				
8	S-9301-002-61	MA-335 (6/10) RP				
9	S-9301-002-71	MA-335 (7/10) OSD				
10	S-9301-002-81	MA-335 (8/10) V-SET				
11	S-9301-002-91	MA-335 (9/10) AV-BUS				
12	S-9301-002-101	MA-335 (10/10) DSF				
13	S-9401-004-11	DRUM MOTOR				
14	S-9401-005-11	CAPSTAN MOTOR				
15	S-9401-006-11	TUNER (BTF-MA401)				
16	S-9401-008-11	MPX UNIT (SBX1837)				
17	S-9301-009-11	FR-139				
18	S-9301-010-11	DM-81				
19	S-9301-011-11	AJ-2				
20	S-9301-012-11	AN-16				
21	S-9301-013-11	AN-17				
22	S-9311-015-12	MG-21 (1/3)				
23	S-9311-015-22	MG-21 (2/3)				
24	S-9311-015-32	MG-21 (3/3)				



MA-335 MOUNT

XX means no component mounted.  
 ALL resistors are in ohms-1/10W unless otherwise noted.  
 ALL capacitors are in uF(p.p.F) unless otherwise noted.

REVISION	DATE	NAME



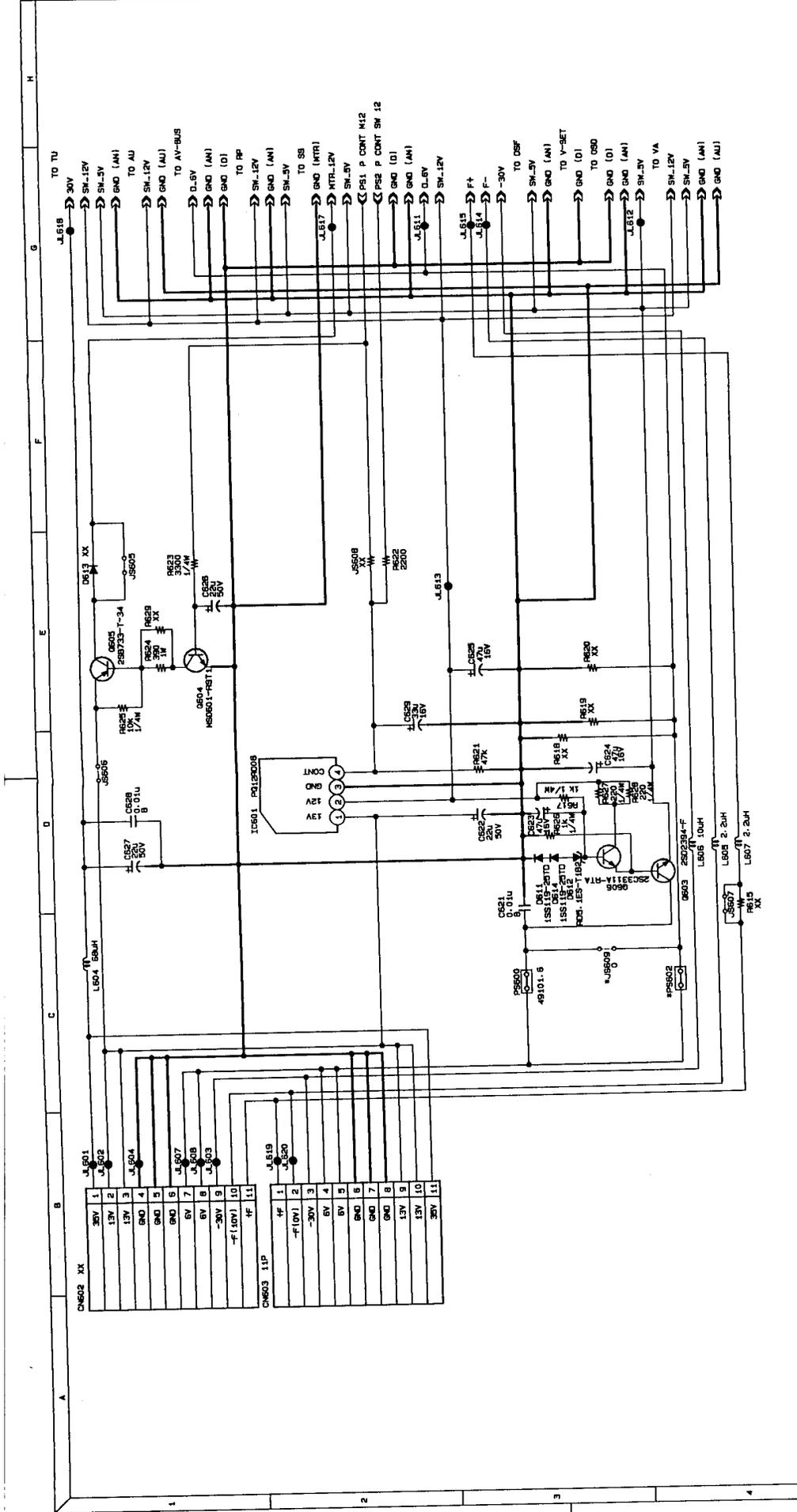
XX means no component mounted.  
 ALL resistors are in ohms, 1/4W  
 Unless otherwise noted.  
 ALL capacitors are in  $\mu$ F, 50V  
 Unless otherwise noted.

Symbol	min	typ	max
*R107	100/1	120/1	120/1
*R109	560	620	680
*R110	—	—	—
*R207	1.2K	1.5K	2.2K
*R209	—	2.7	—

- D201 PRI003 or ERA18-02
- D202 S3L200 or RL42
- D204 D3S4M or RK44
- D205 MA2510 or RDS1F
- D206, 207 PRI003 or ERA18-02
- IC201 AN1431T or HA17431P or TL431

- D201 PRI005 or AC01A
- D202 ERA15-02 or J1ES2
- D204 MA4030 or RD3-0ES
- D205 MA185 or 1SS119
- D106 IN4005
- D107, D108 IN4005
- D109, D110 IN4005
- Q101 2SC4054
- Q102 2SC4040
- PC101 ON3131 or PS2501

S1V-M10HF  
 SR821 (POWER BLOCK)  
 S-9301-001-51

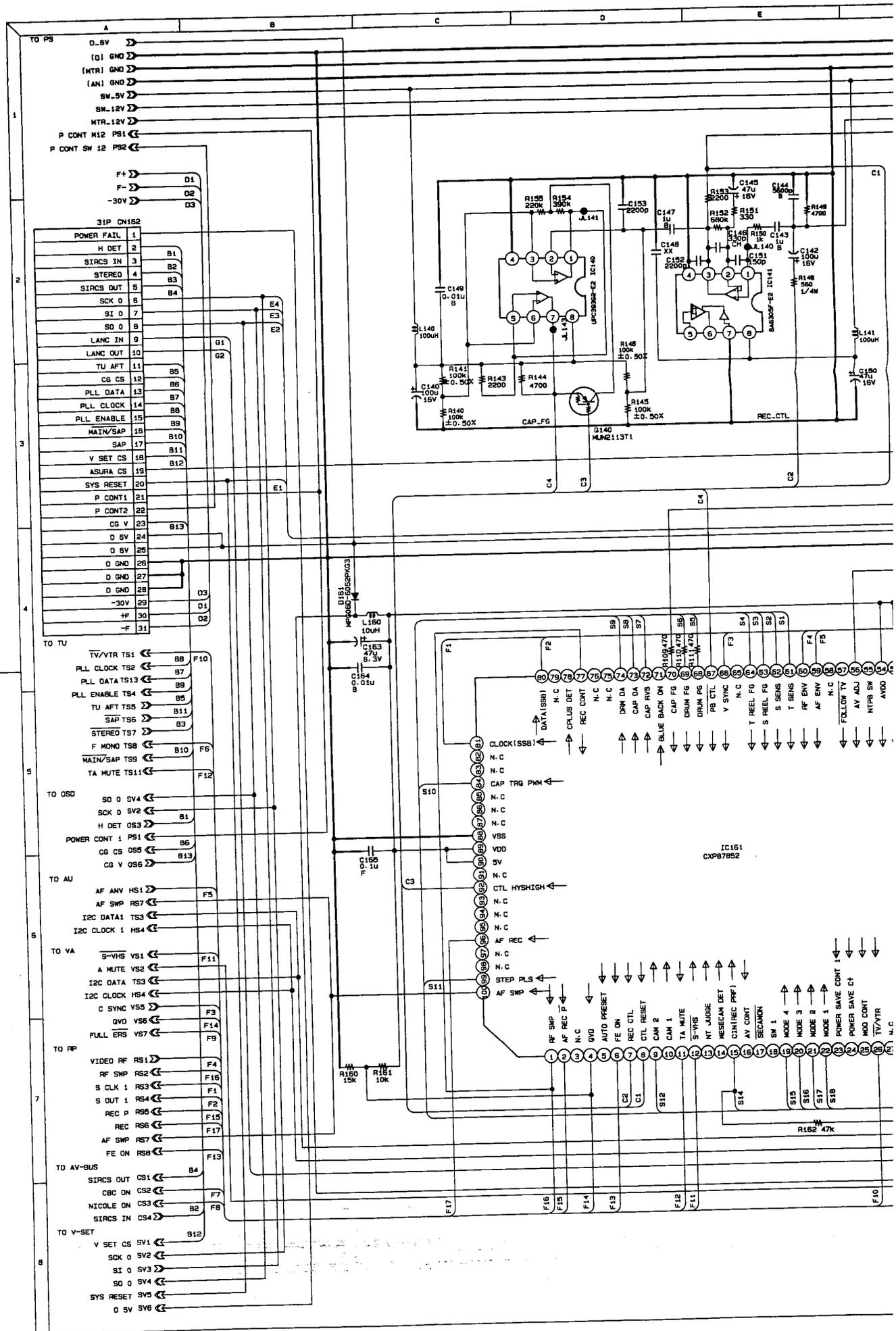


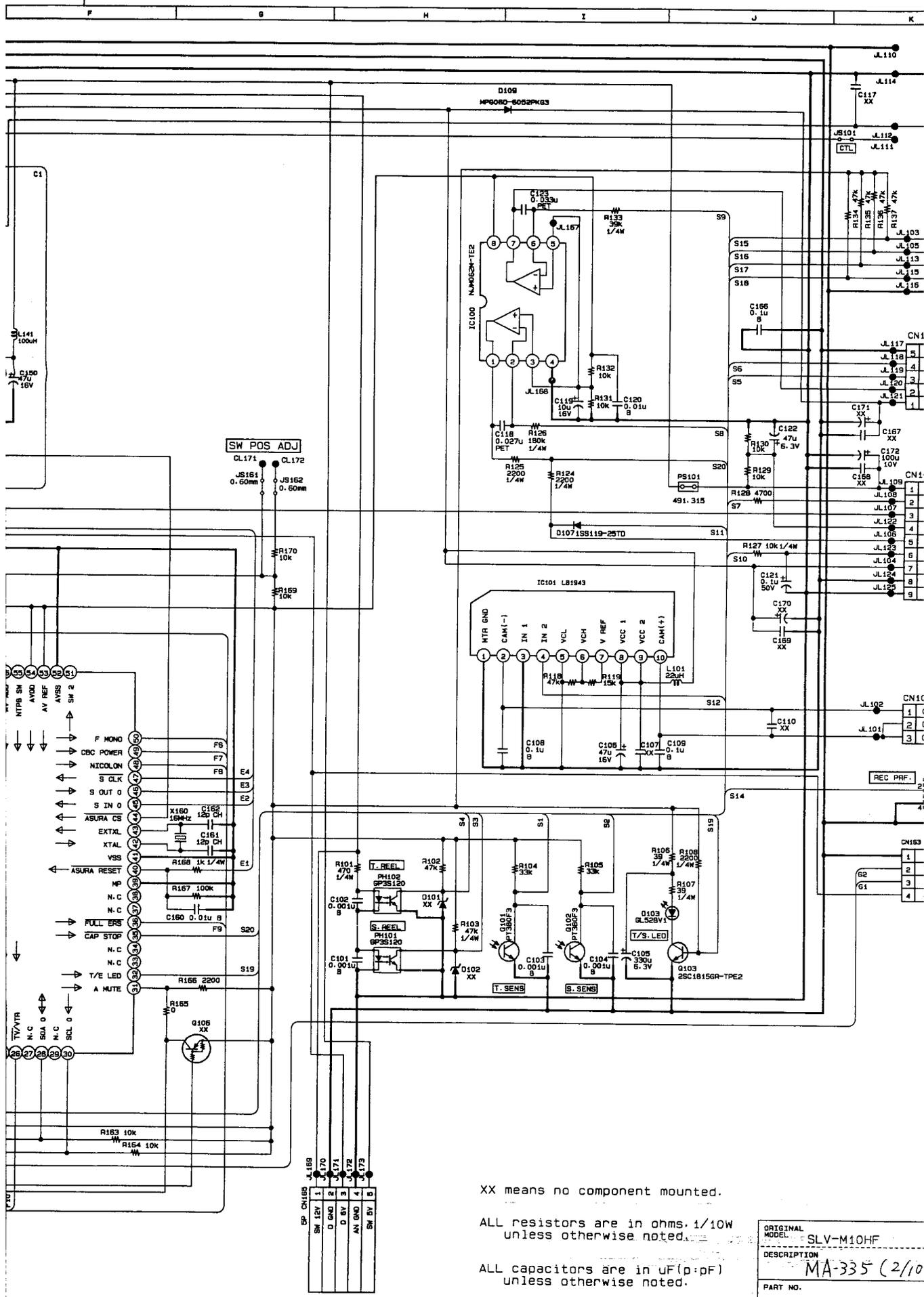
SLV-M10HF SLV-M10HF

ITEM NO.	DESCRIPTION	QTY	UNIT
1000	1000µF 50V	1	EA
1001	2.2µH	1	EA
1002	500mA FUSE	1	EA
1003	1000µF 50V	1	EA
1004	2.2µH	1	EA
1005	500mA FUSE	1	EA

XX means no component mounted.  
 ALL resistors are in ohms. 1/10W unless otherwise noted.  
 ALL capacitors are in uF (p.p.F) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (1/10) PS
PART NO.	S-9301-002-11
SHEET	1/1





SW POS ADJ  
 CL171      CL172  
 JS161 0.60mm      JS162 0.60mm

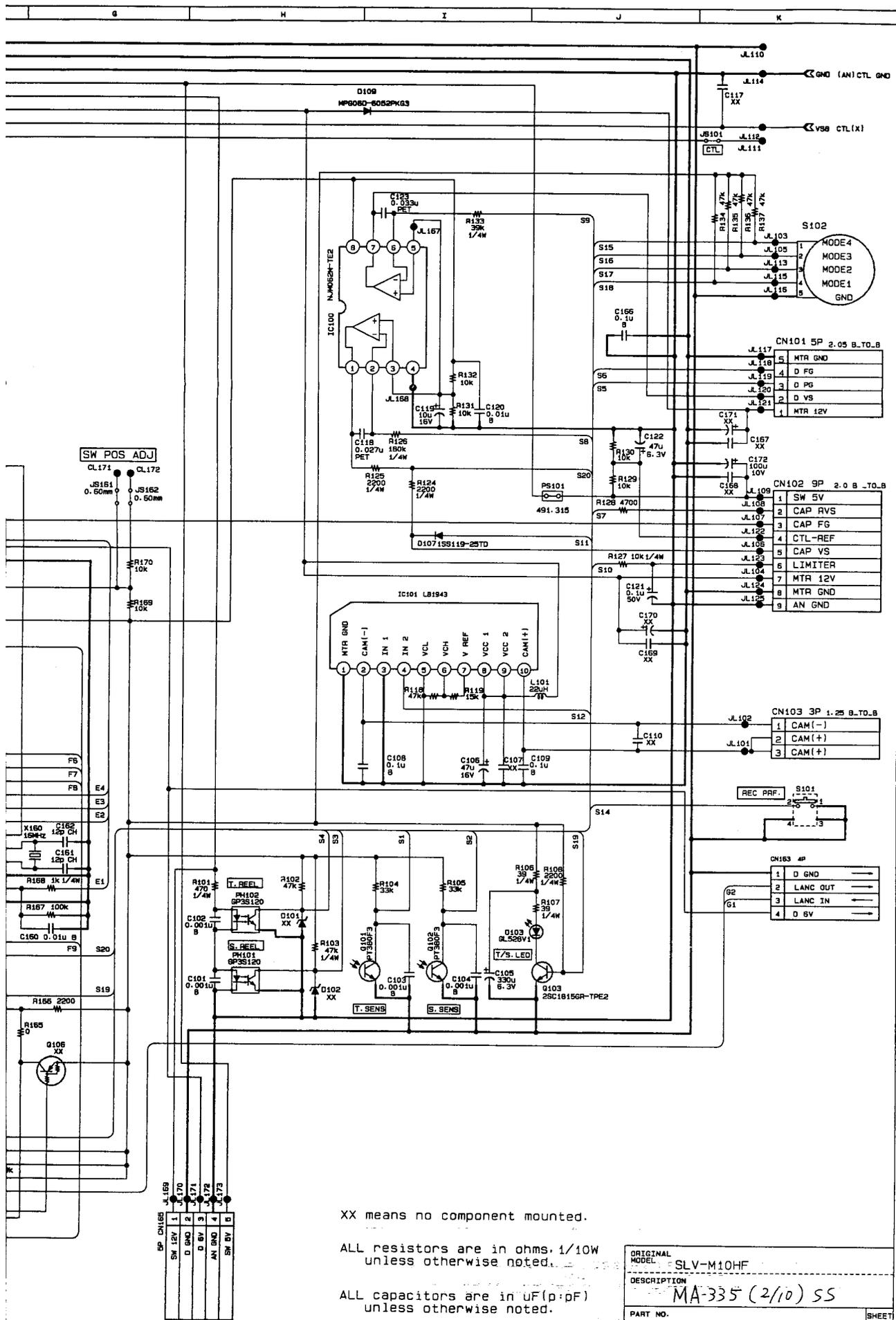
DP	CN103	J.165
SW 12V	J.170	
D GND	J.171	
D 5V	J.172	
AV GND	J.173	
SW 5V		

XX means no component mounted.

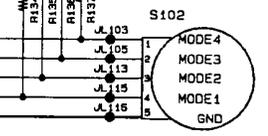
ALL resistors are in ohms, 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335(2/10)
PART NO.	S-9301-002-1



SW POS ADJ  
CL171  
CL172  
JS151 0.50mm  
JS152 0.50mm



Terminal	Signal
5	MTR GND
4	D FG
3	D PG
2	D VS
1	MTR 12V

Terminal	Signal
1	SW 5V
2	CAP RVS
3	CAP FG
4	CTL-REF
5	CAP VS
6	LIMITER
7	MTR 12V
8	MTR GND
9	AN GND

Terminal	Signal
1	CAM(-)
2	CAM(+)
3	CAM(+)

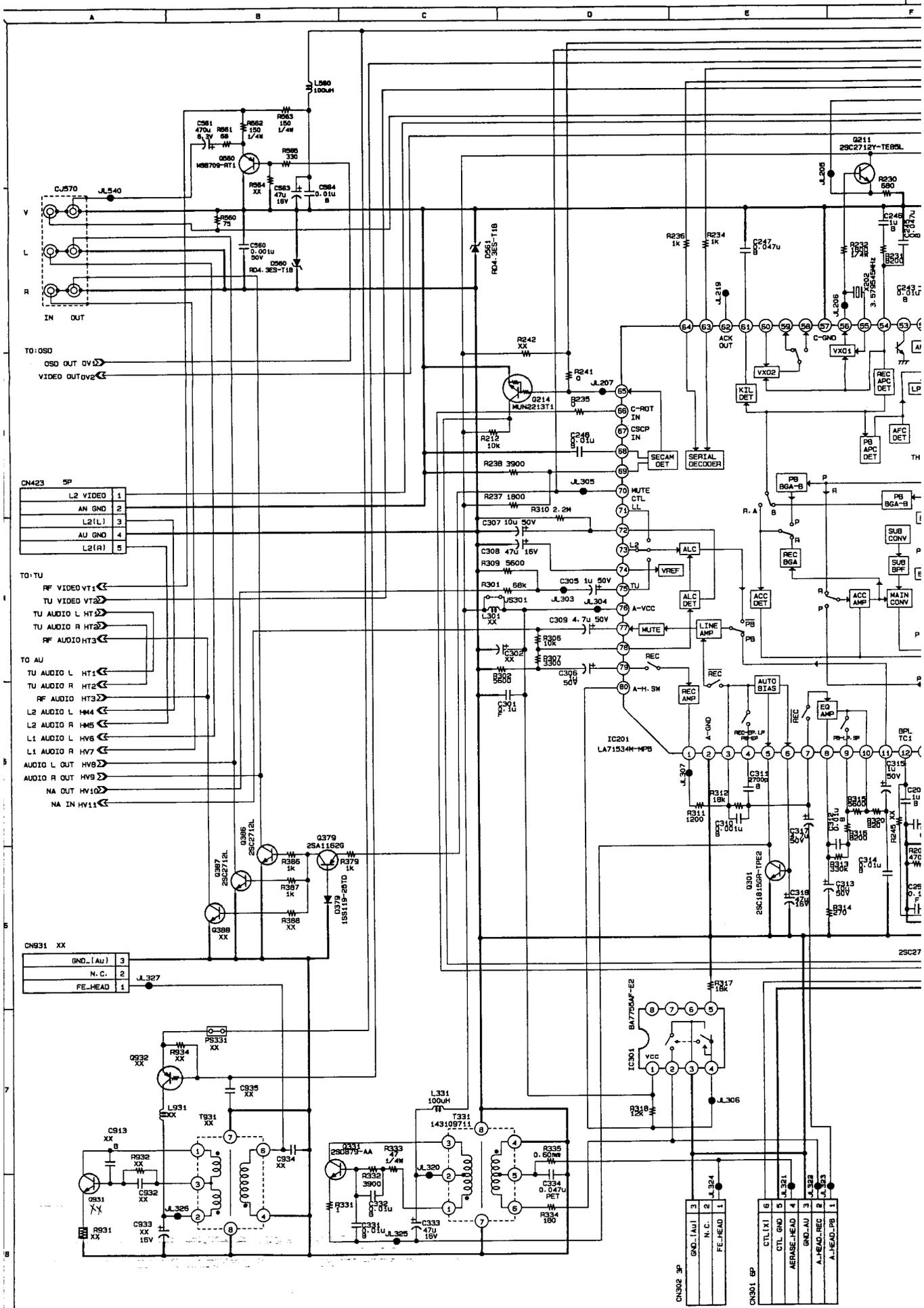
Terminal	Signal
1	D GND
2	LANC OUT
3	LANC IN
4	D 5V

XX means no component mounted.

ALL resistors are in ohms, 1/10W unless otherwise noted.

ALL capacitors are in uF(p.pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (2/10) SS
PART NO.	S-9301-002-21
SHEET	1/



CN423 5P	
L2 VIDEO	1
AN GND	2
L2(L)	3
AU GND	4
L2(R)	5

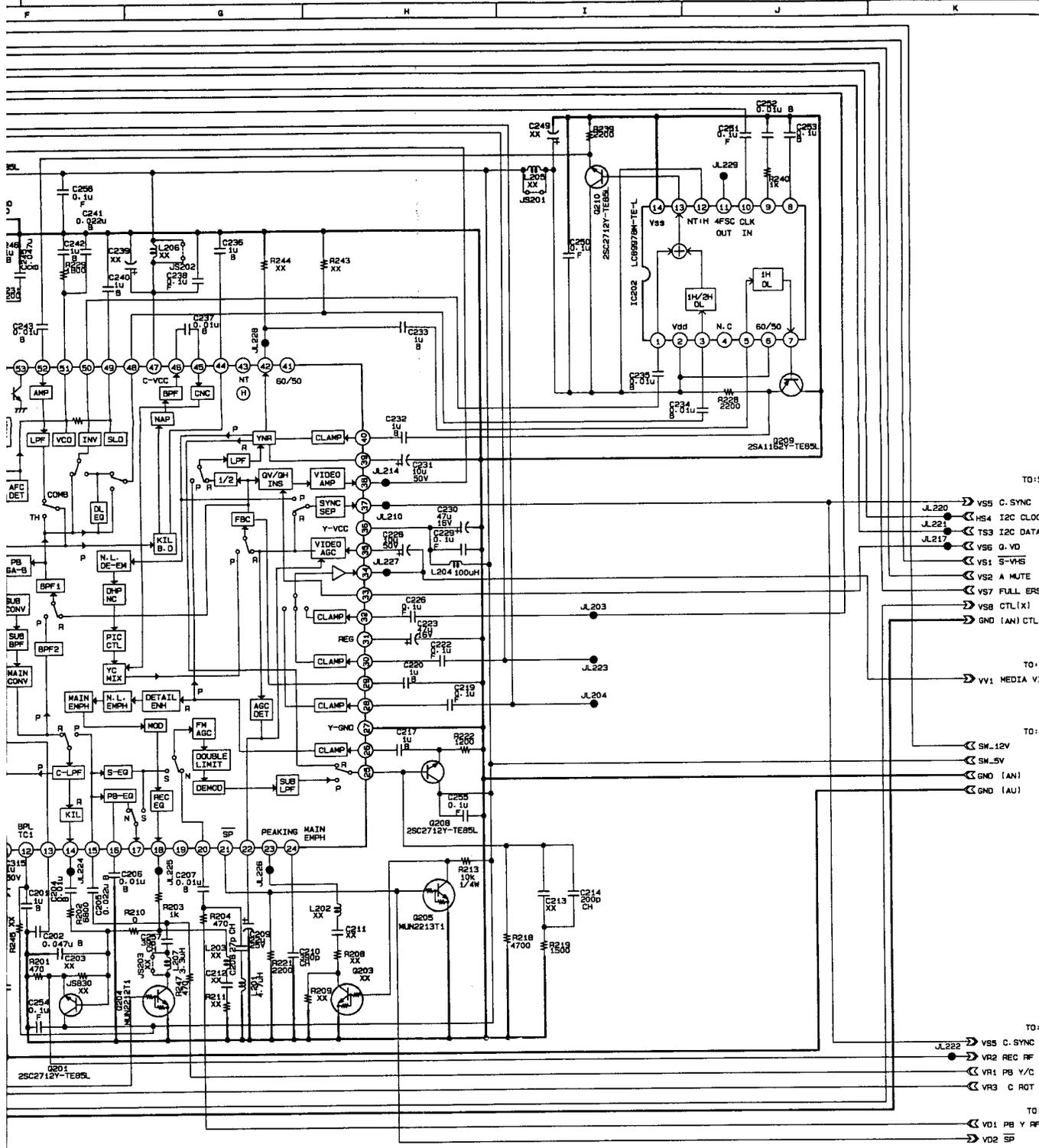
TO:TU	
RF VIDEO VT1	←
TU VIDEO VT2	←
TU AUDIO L HT2	←
TU AUDIO R HT2	←
RF AUDIO HT3	←

TO:AU	
TU AUDIO L HT1	←
TU AUDIO R HT2	←
RF AUDIO HT3	←
L2 AUDIO L HM4	←
L2 AUDIO L HM5	←
L1 AUDIO L HV6	←
AUDIO L OUT HV8	←
AUDIO R OUT HV9	←
NA OUT HV10	←
NA IN HV11	←

CN931 XX	
GND_(Au)	3
N.C.	2
FE-HEAD	1

CN902 3P	
GND_(Au)	3
N.C.	2
FE-HEAD	1

CN301 8P	
CTL(X)	8
CTL GND	5
ERASE-HEAD	4
GND_AU	3
A-HEAD-REC	2
A-HEAD-PB	1

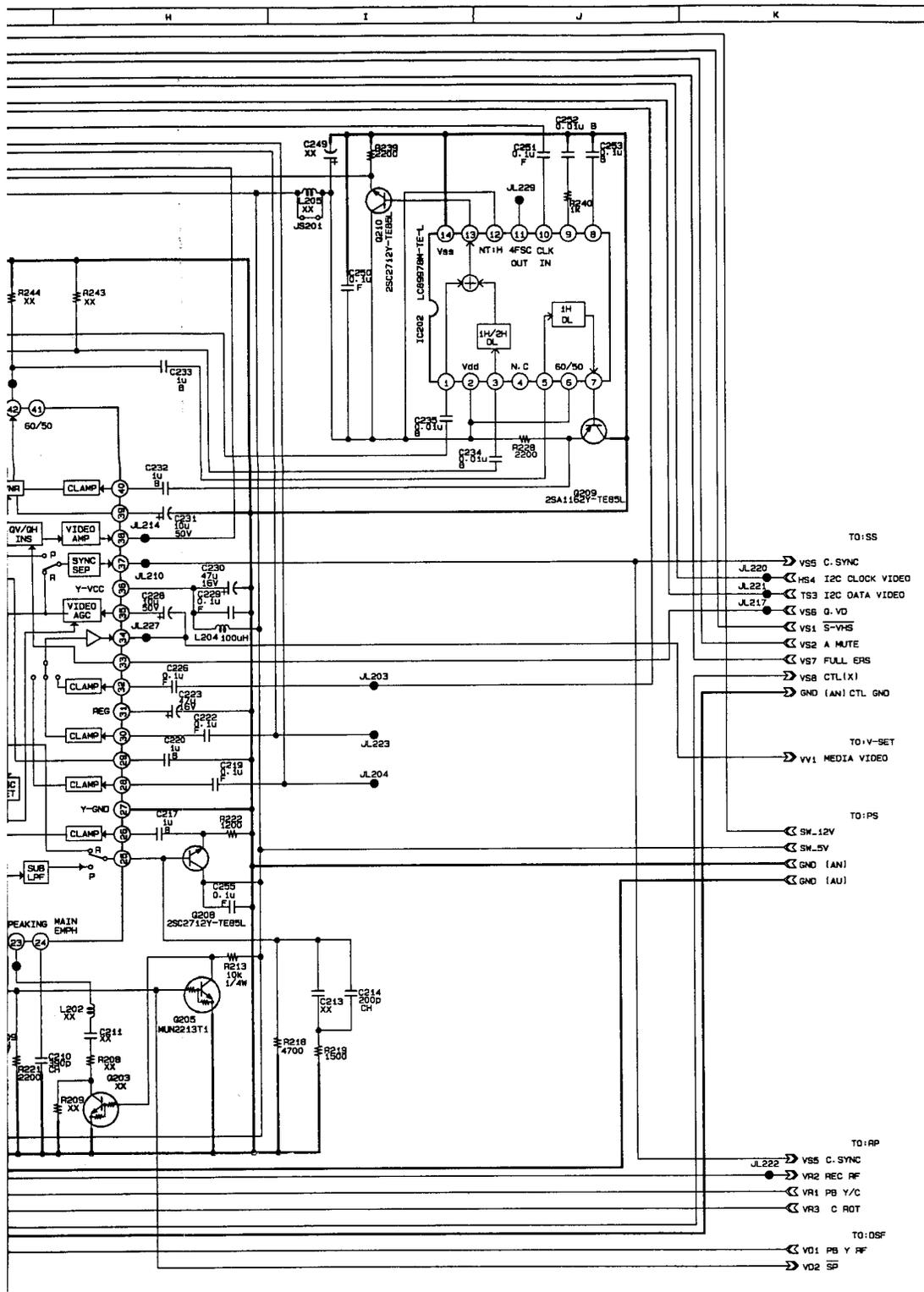


XX means no component mounted.

ALL resistors are in ohms, 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (3/10) VA
PART NO.	S-9301-002-31

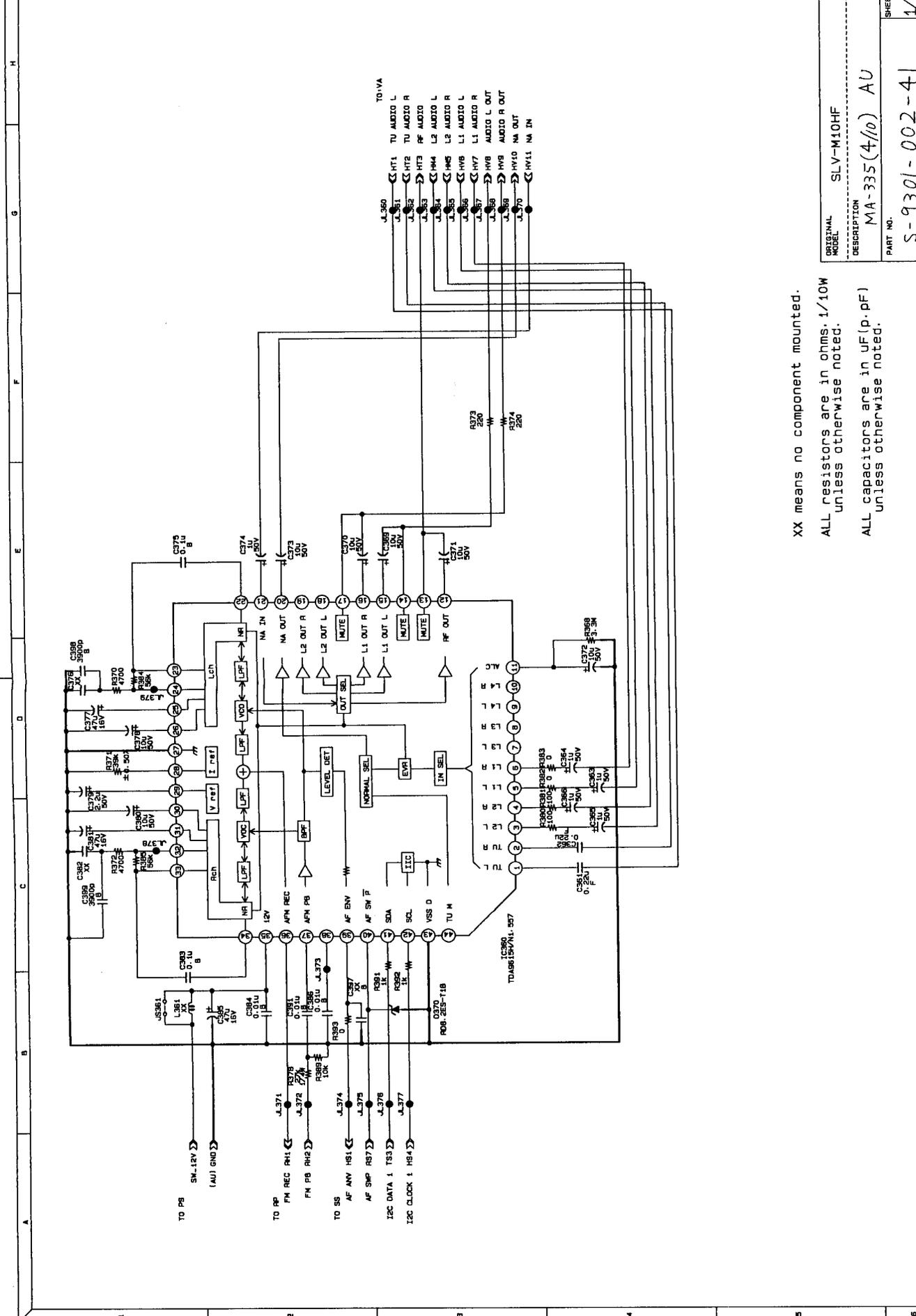


XX means no component mounted.

ALL resistors are in ohms. 1/10W unless otherwise noted.

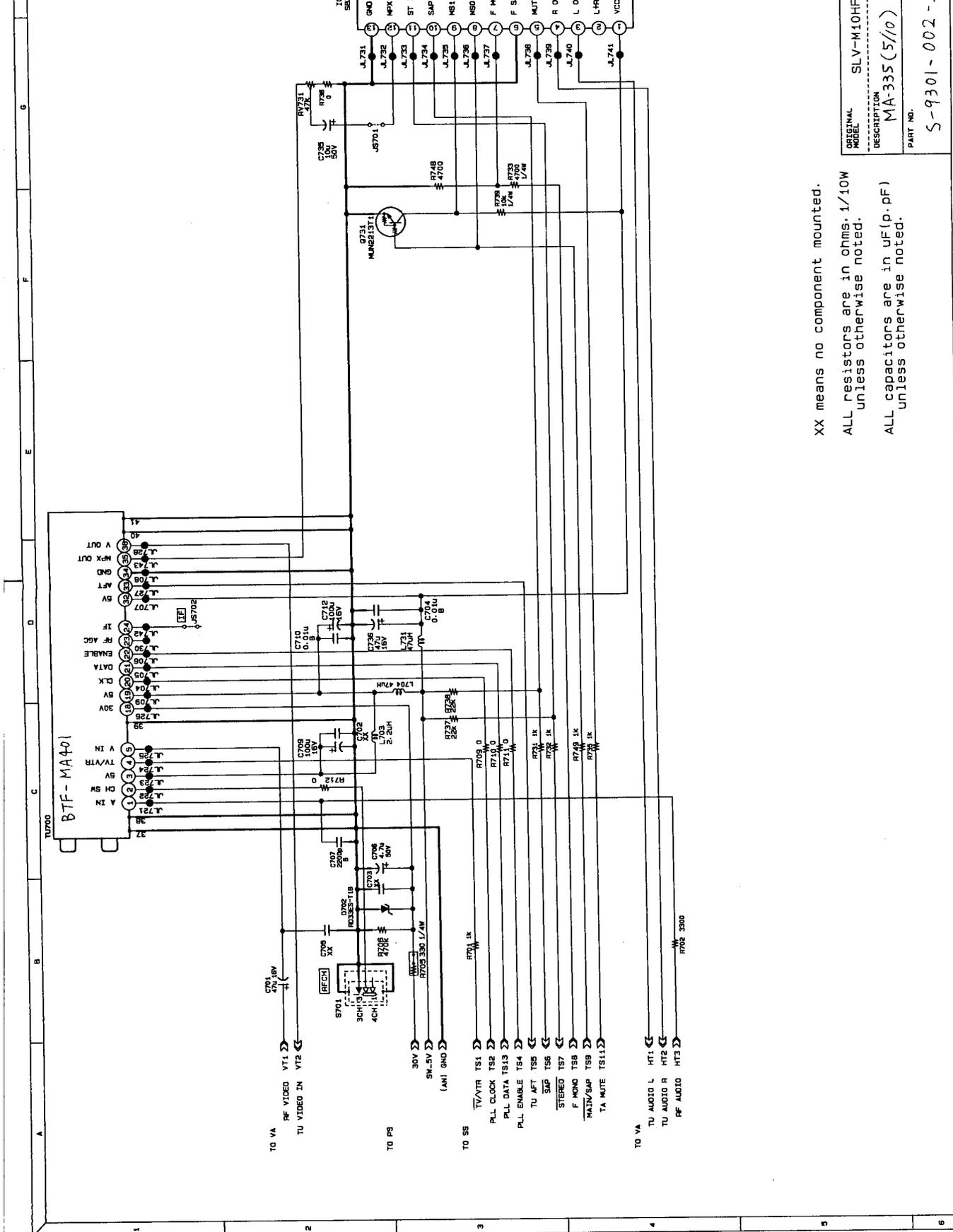
ALL capacitors are in uF (p.pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (3/10) VA
PART NO.	S-9301-002-31
SHEET	4/



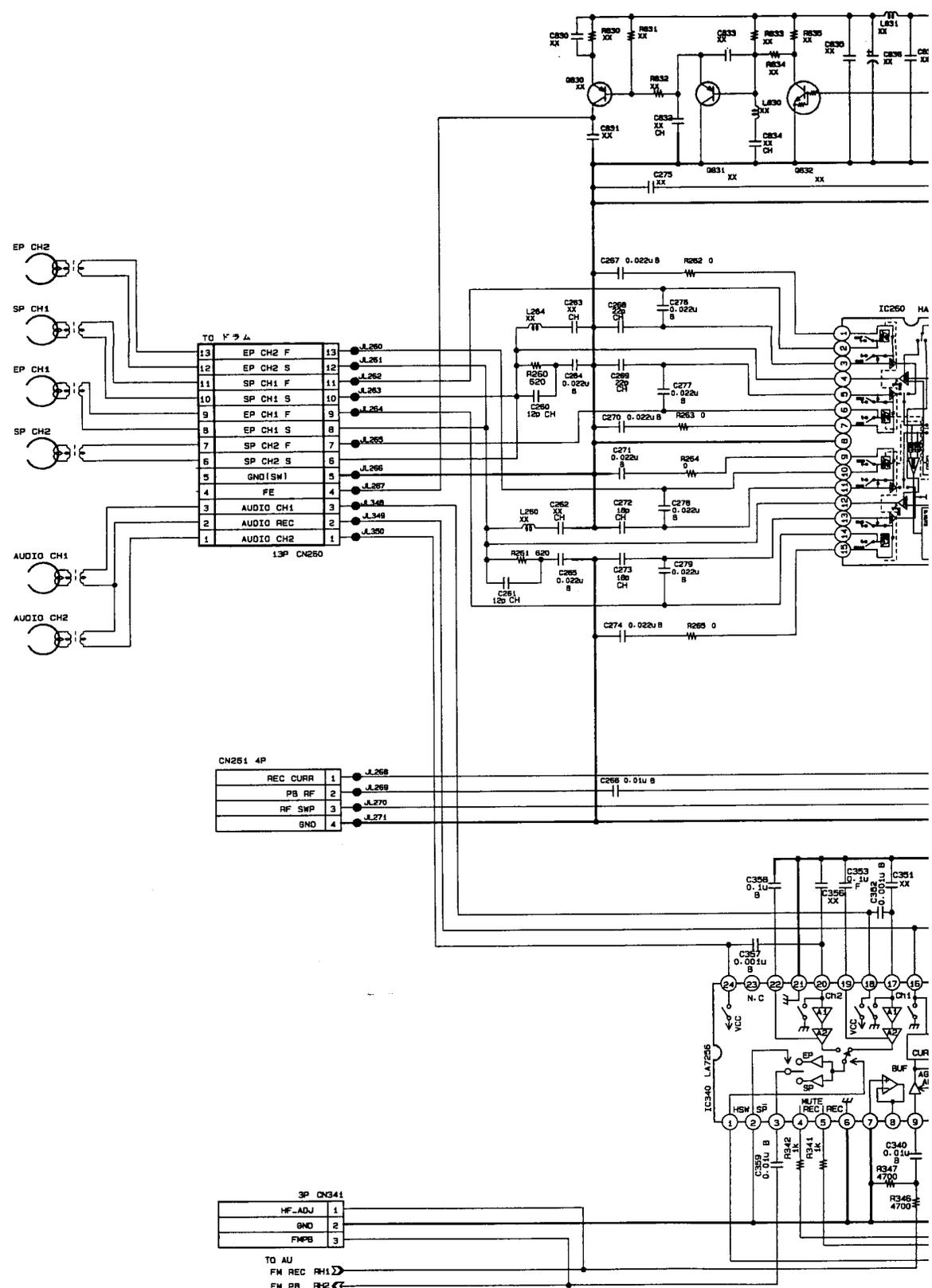
ORIGINAL MODEL SLV-M10HF  
 DESCRIPTION MA-335(4/10) AU  
 PART NO. S-9301-002-41  
 SHEET 1/1

XX means no component mounted.  
 ALL resistors are in ohms. 1/10W  
 unless otherwise noted.  
 ALL capacitors are in uF (p.p.F)  
 unless otherwise noted.



ORIGINAL MODEL SLV-M10HF  
 DESCRIPTION MA-335 (5/10) TU  
 PART NO. S-9301-002-51  
 SHEET 1/1

XX means no component mounted.  
 ALL resistors are in ohms. 1/10W  
 unless otherwise noted.  
 ALL capacitors are in uF(p.p.F)  
 unless otherwise noted.



TO F → A

13	EP CH2 F	13	JL260
12	EP CH2 S	12	JL261
11	SP CH1 F	11	JL262
10	SP CH1 S	10	JL263
9	EP CH1 F	9	JL264
8	EP CH1 S	8	JL265
7	SP CH2 F	7	JL265
6	SP CH2 S	6	JL266
5	GND(SW1)	5	JL267
4	FE	4	JL267
3	AUDIO CH1	3	JL348
2	AUDIO REC	2	JL348
1	AUDIO CH2	1	JL350

13P CN260

CN251 4P

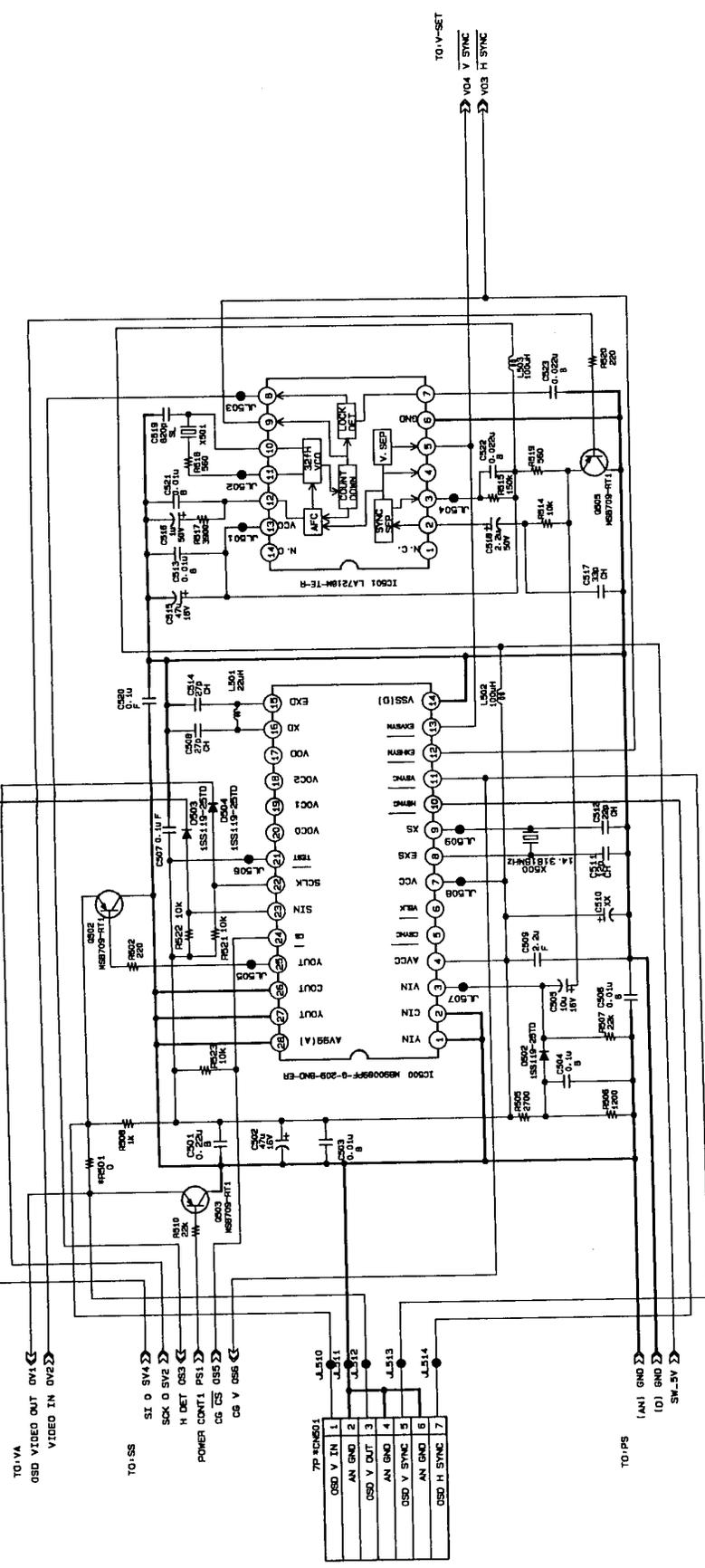
REC CURR	1	JL268
PB RF	2	JL269
RF SWP	3	JL270
GND	4	JL271

3P CN341

HF_ADJ	1	
GND	2	
FM_PB	3	

TO AU  
 FM REC RH1  
 FM PB RH2





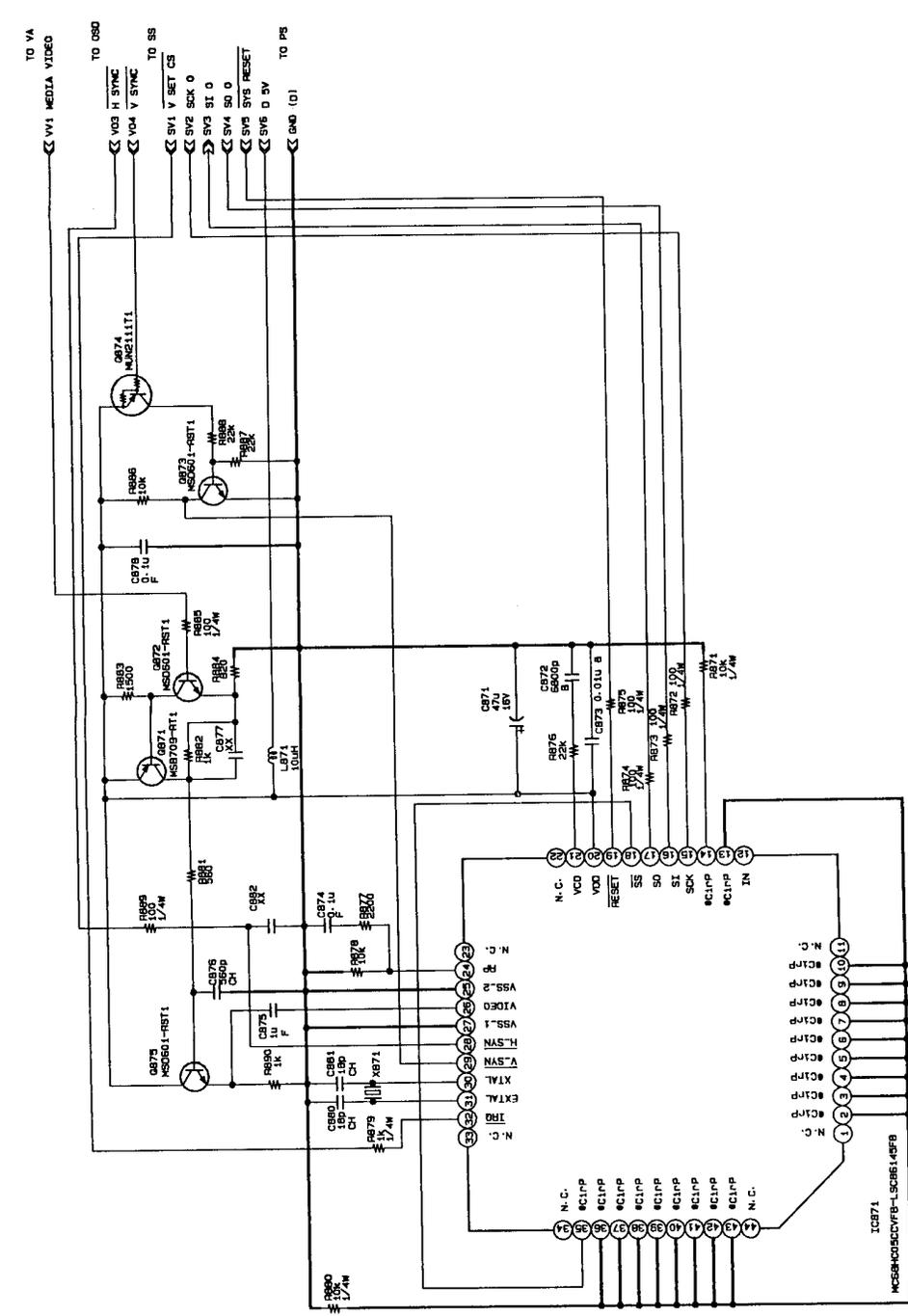
SLV-M20HF SLV-M10HF

ISS: 03.27.09.15  
SHUNKEI 09.15

	A11	A10
KIBAN	A	B
7P	7P	7P
158879411	XX	XX
0501	0	0
PC01	0	0

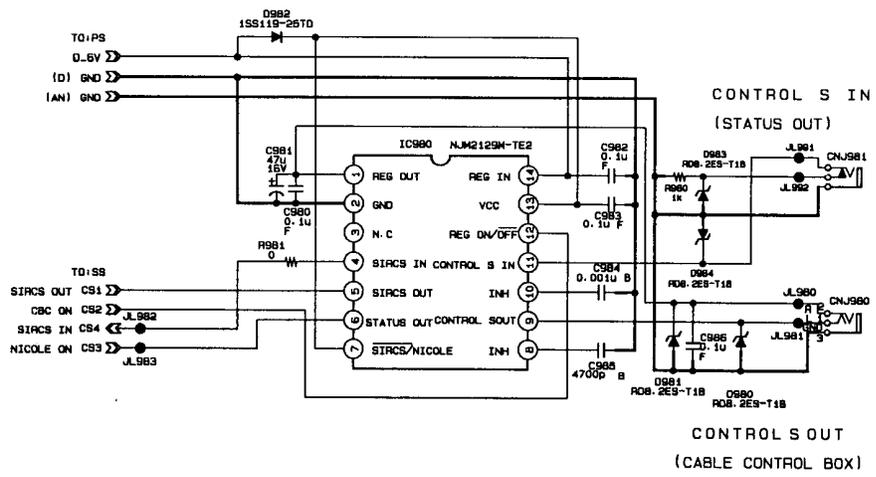
XX means no component mounted.  
 ALL resistors are in ohms. 1/10W unless otherwise noted.  
 ALL capacitors are in uF (p.p.F) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (7/10) OSD
PART NO.	S-9301-002-71
SHEET	1/1



XX means no component mounted.  
 ALL resistors are in ohms. 1/10W  
 unless otherwise noted.  
 ALL capacitors are in uF (p.p.F)  
 unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (8/10) V-SET
PART NO.	S-9301-002-8(
SHEET	1/

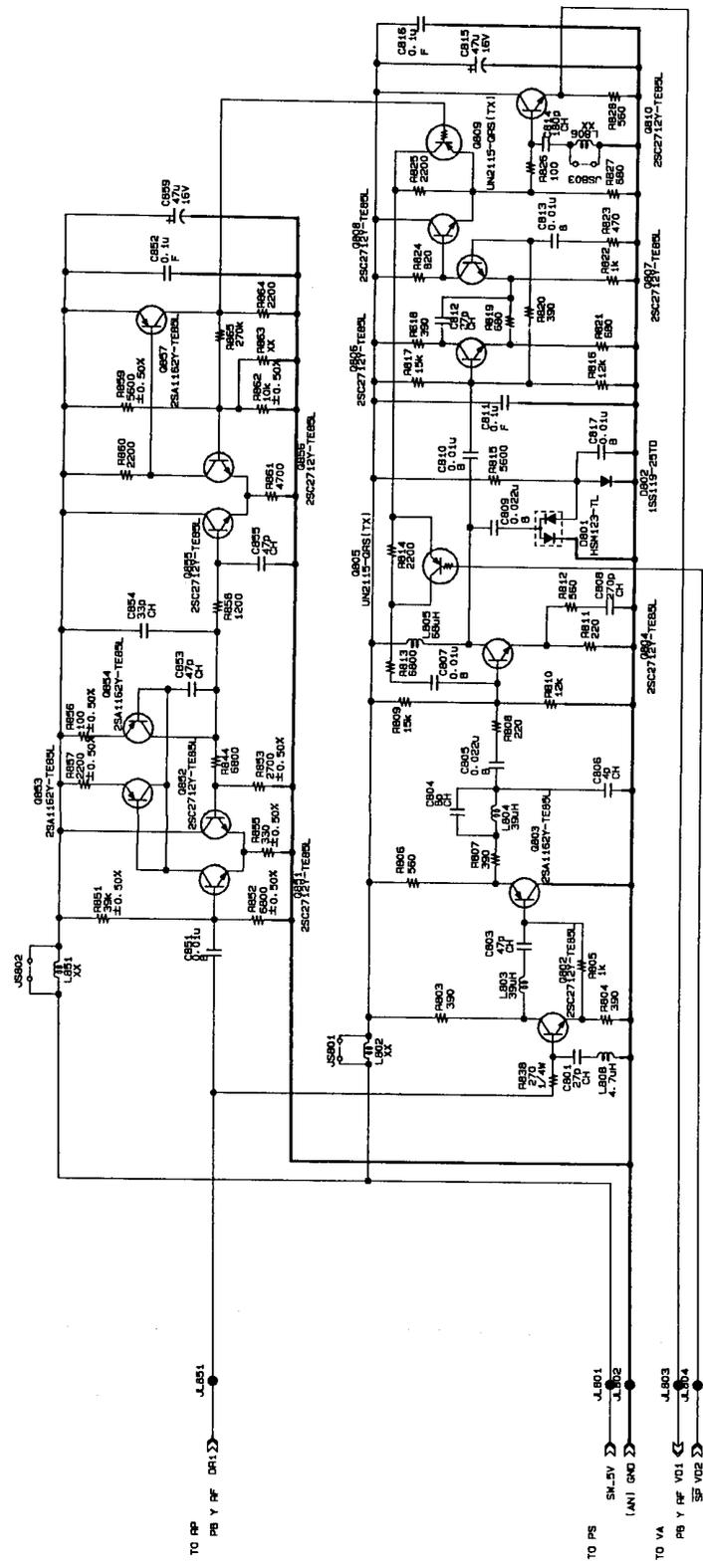


XX means no component mounted.

ALL resistors are in ohms. 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335(9/10) AV-BUS
PART NO.	S-9301-002-91
SHEET	1/

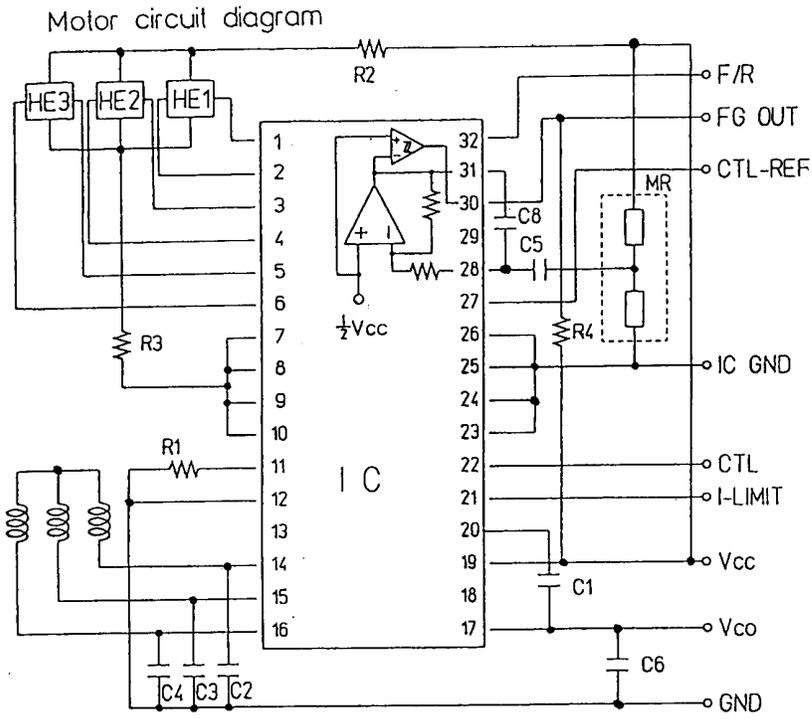


XX means no component mounted.  
 ALL resistors are in ohms. 1/10W  
 unless otherwise noted.  
 ALL capacitors are in uF(p.p.F)  
 unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	MA-335 (10/10) DSF
PART NO.	S-9301-002-101
SHEET	1/1



SCALE FOR MICROFILM



-Circuit constant-

- IC : M56746SP
- R 1 : 0.47Ω / 0.5W
- R 2 : 180Ω
- R 3 : 180Ω
- R 4 : 4.7kΩ
- C 1 : 0.047μF / 25V
- C 2 : 0.33μF / 25V
- C 3 : 0.33μF / 25V
- C 4 : 0.33μF / 25V
- C 5 : 1μF / 16V
- C 6 : 0.1μF / 25V
- C 8 : 220pF / 50V
- HE1 : HW101A
- HE2 : HW101A
- HE3 : HW101A

ALL resistors are in ohms, 1/10W  
Unless otherwise noted.

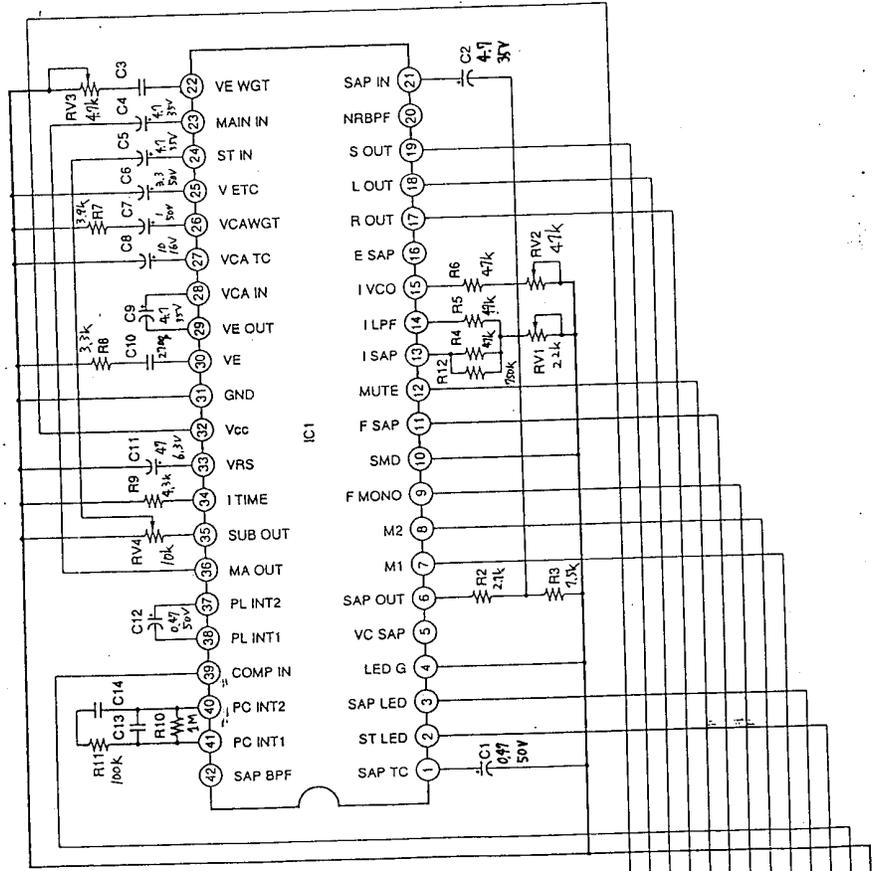
ALL capacitors are in μF  
Unless otherwise noted.

-Connector pin location-

No.	FUNCTION
1	Vcc (5V)
2	F/R
3	FG-OUT
4	CTL-REF
5	CTL
6	I-LIMIT
7	Vco (12V)
8	GND
9	IC GND
10	N.C.

ORIGINAL MODEL	SLV-M10 HF
DESCRIPTION	CAPSTAN MOTOR (F2QTB29)
PART NO.	S-9401-005-11





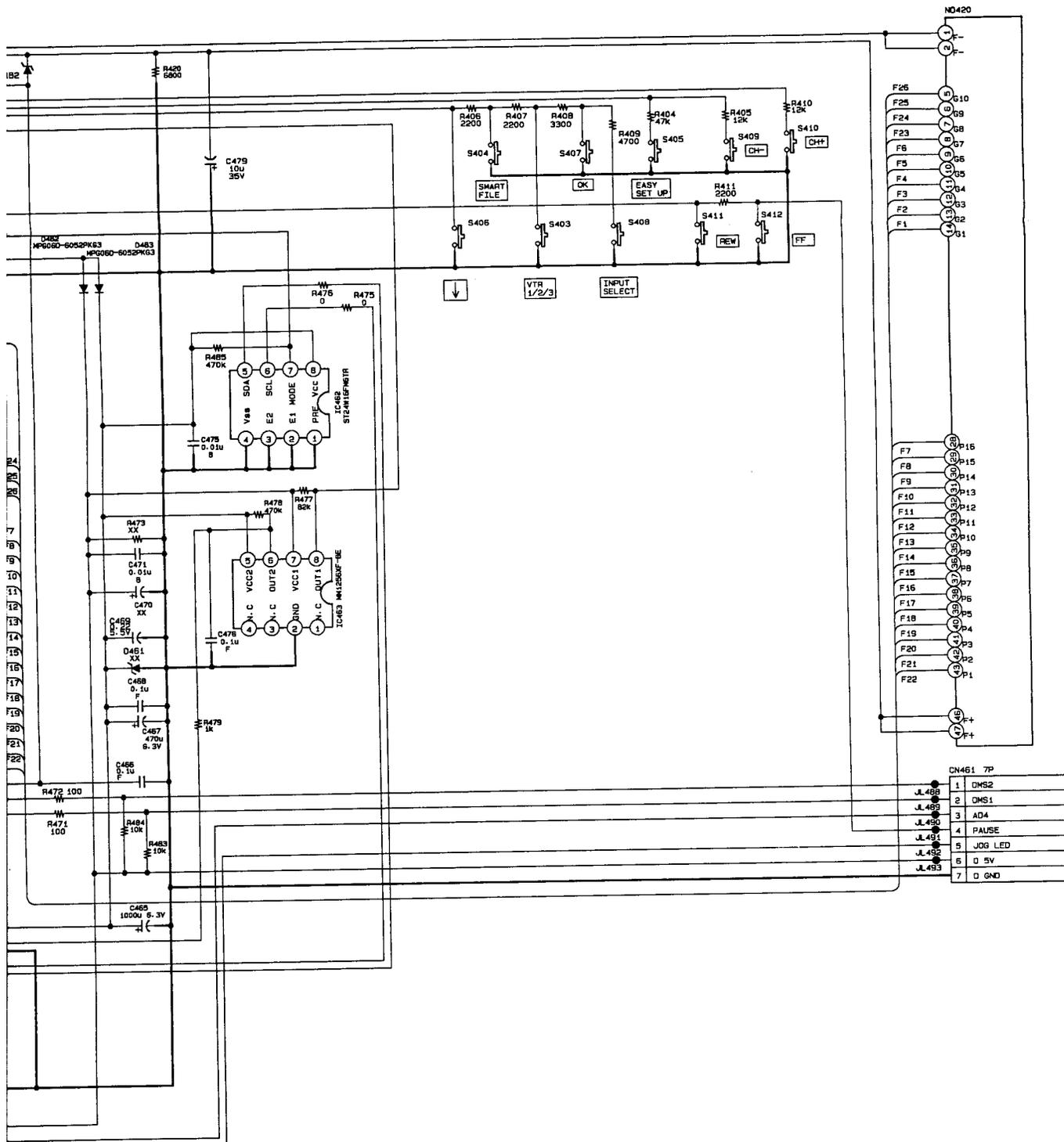
ALL resistors are in ohms, 1/10w. unless otherwise noted.

ALL capacitors are in  $\mu$  F unless otherwise noted.

1	VCC
2	L+R OUT
3	L OUT
4	R OUT
5	MUTE
6	F SAP
7	FORCED
8	MSO
9	MS1
10	SAP IND
11	ST IND
12	MPX IN
13	GND

ORIGINAL MODEL  
 SLV-M10 HF  
 DESCRIPTION  
 MPX UNIT (SBX 1837)  
 PART No.  
 S-9401-008-11





XX means no component mounted.

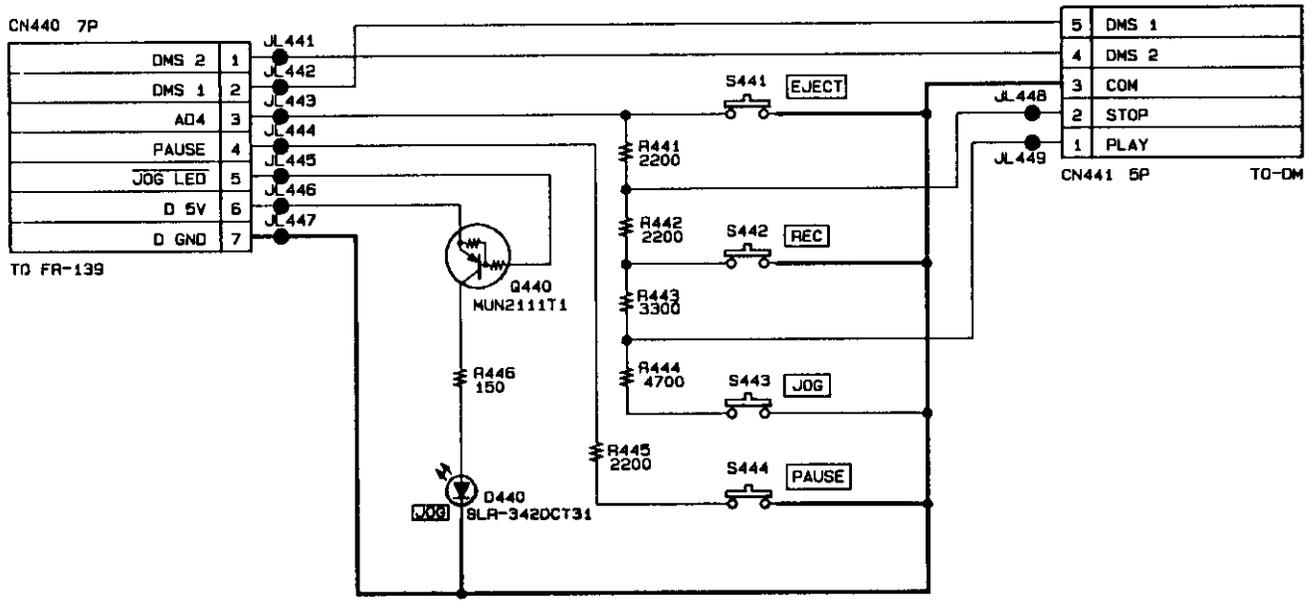
ALL resistors are in ohms, 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

17:22 SLV-M10HF SLV-M20HF

KIBAN	A	B
SP 169037031	7P 169036831	SP 169037031
CXP62560-0 870089111	CXP62560-0 870089111	CXP62560-0 870089112

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	FR-139
PART NO.	S-9301-009-11



TO FR-139

5	DMS 1
4	DMS 2
3	COM
2	STOP
1	PLAY

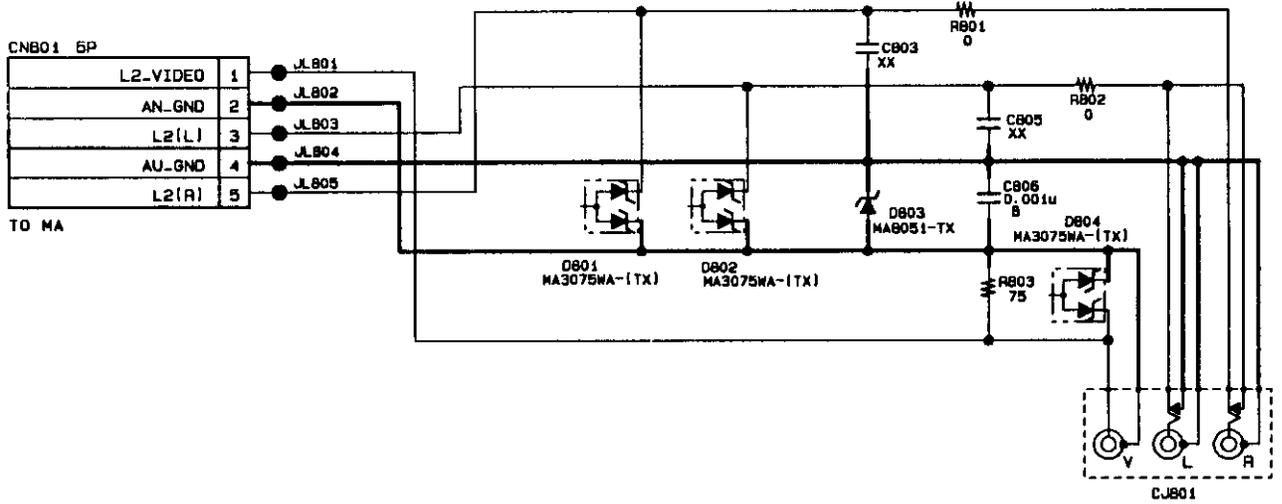
CN441 5P TO-DM

XX means no component mounted.

ALL resistors are in ohms. 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	DM-81

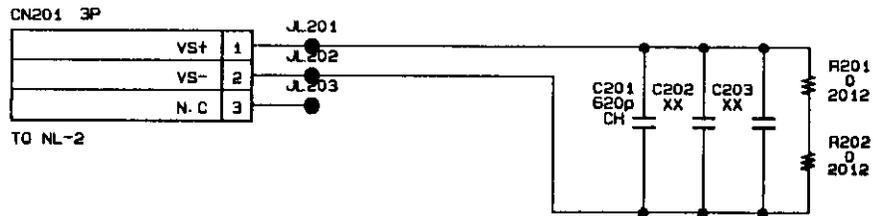


XX means no component mounted.

ALL resistors are in ohms. 1/10W unless otherwise noted.

ALL capacitors are in uF(p:pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	AJ-2
PART NO.	
SHEET	



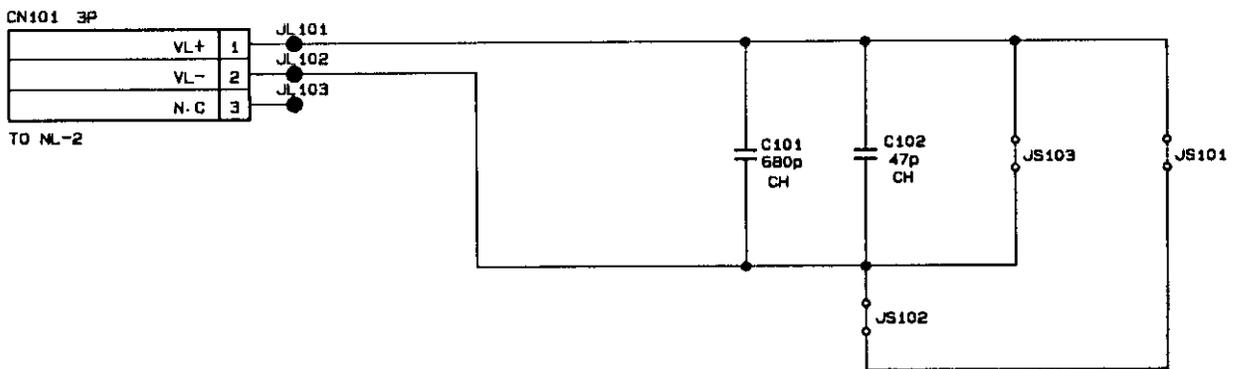
XX means no component mounted.

ALL resistors are in ohms. 1/10W  
unless otherwise noted.

ALL capacitors are in uF(p:pF)  
unless otherwise noted.

ORIGINAL MODEL SLV-M10HF

DESCRIPTION AN-16

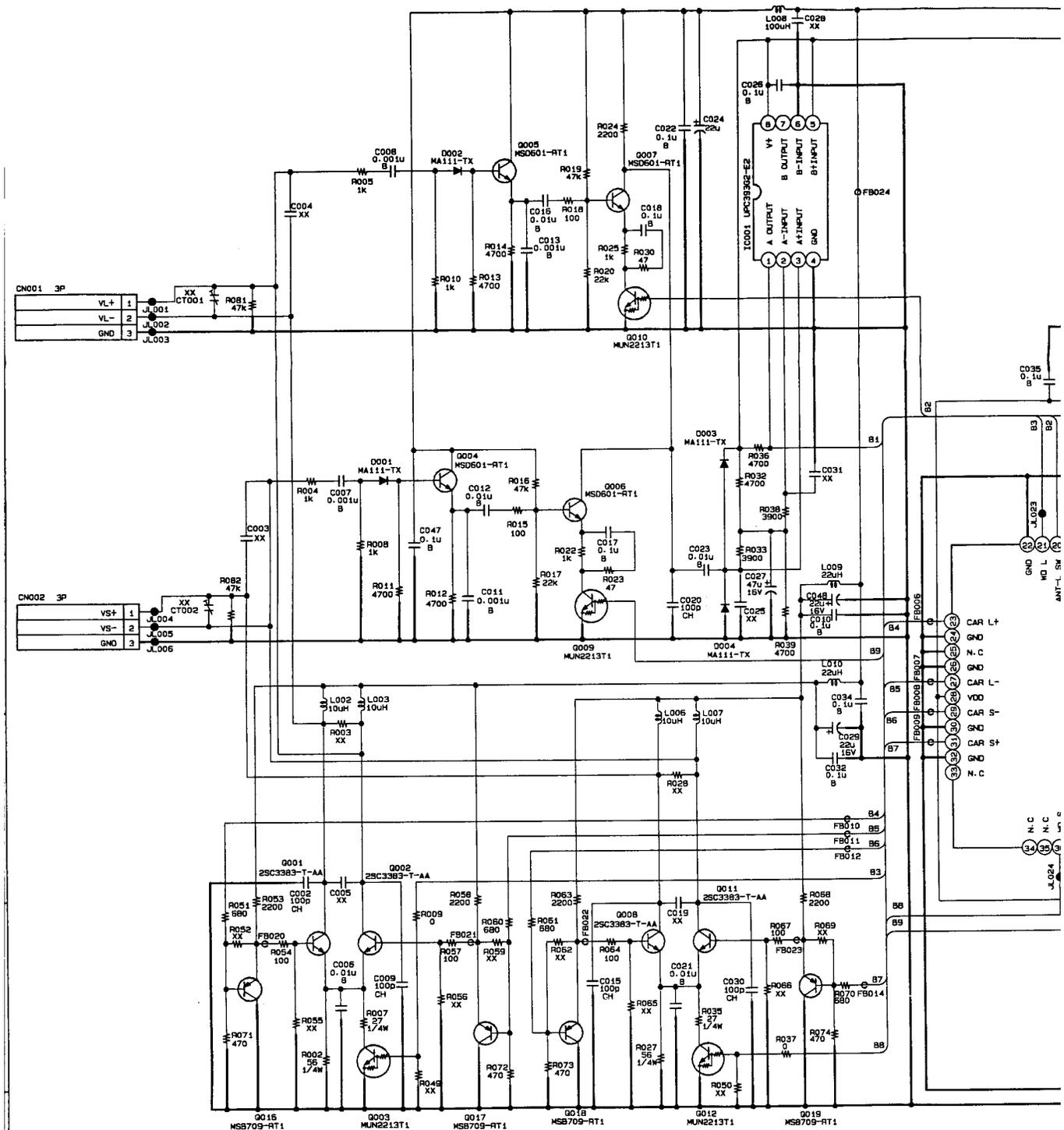


XX means no component mounted.

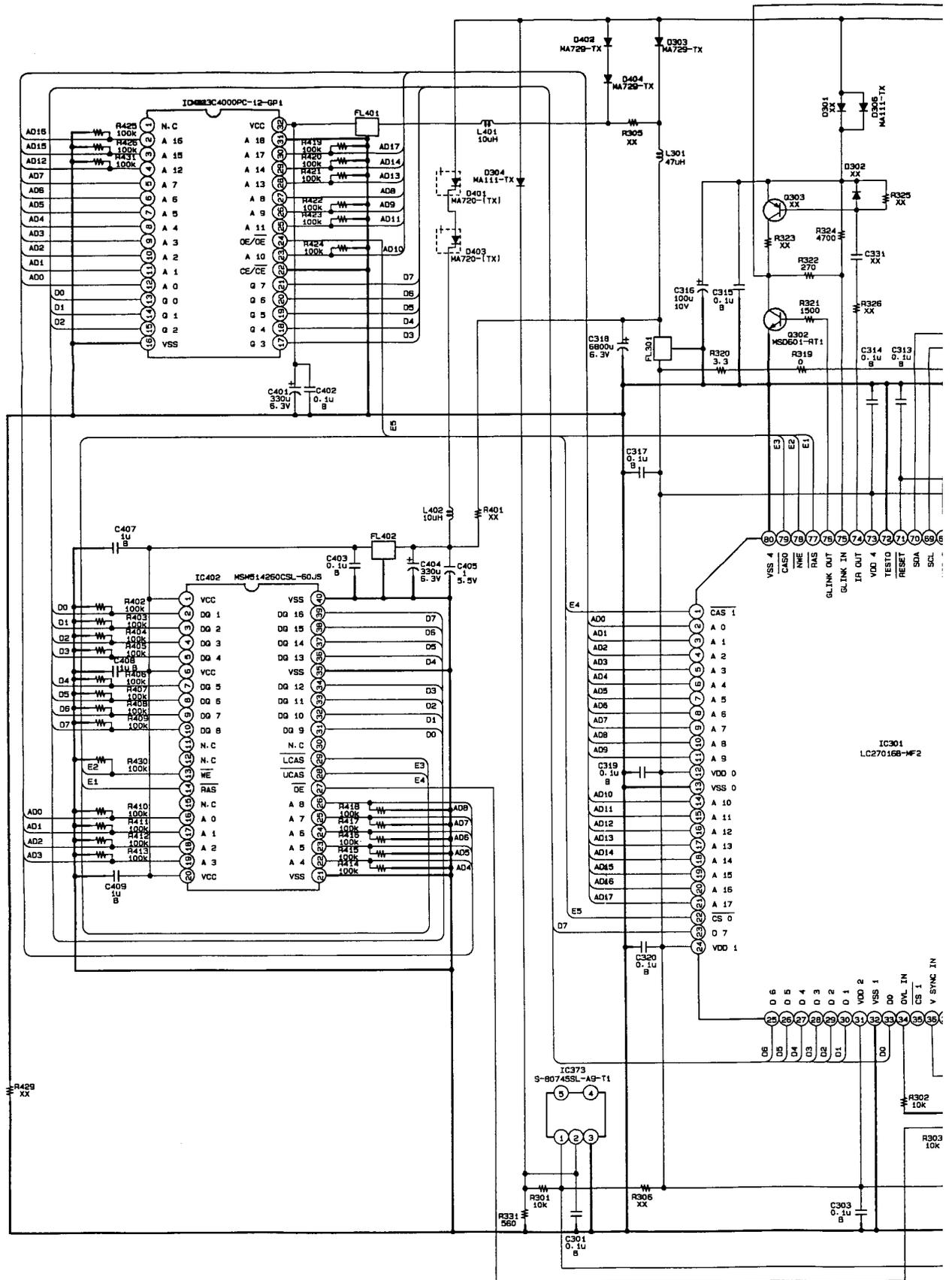
ALL resistors are in ohms, 1/10W  
unless otherwise noted.

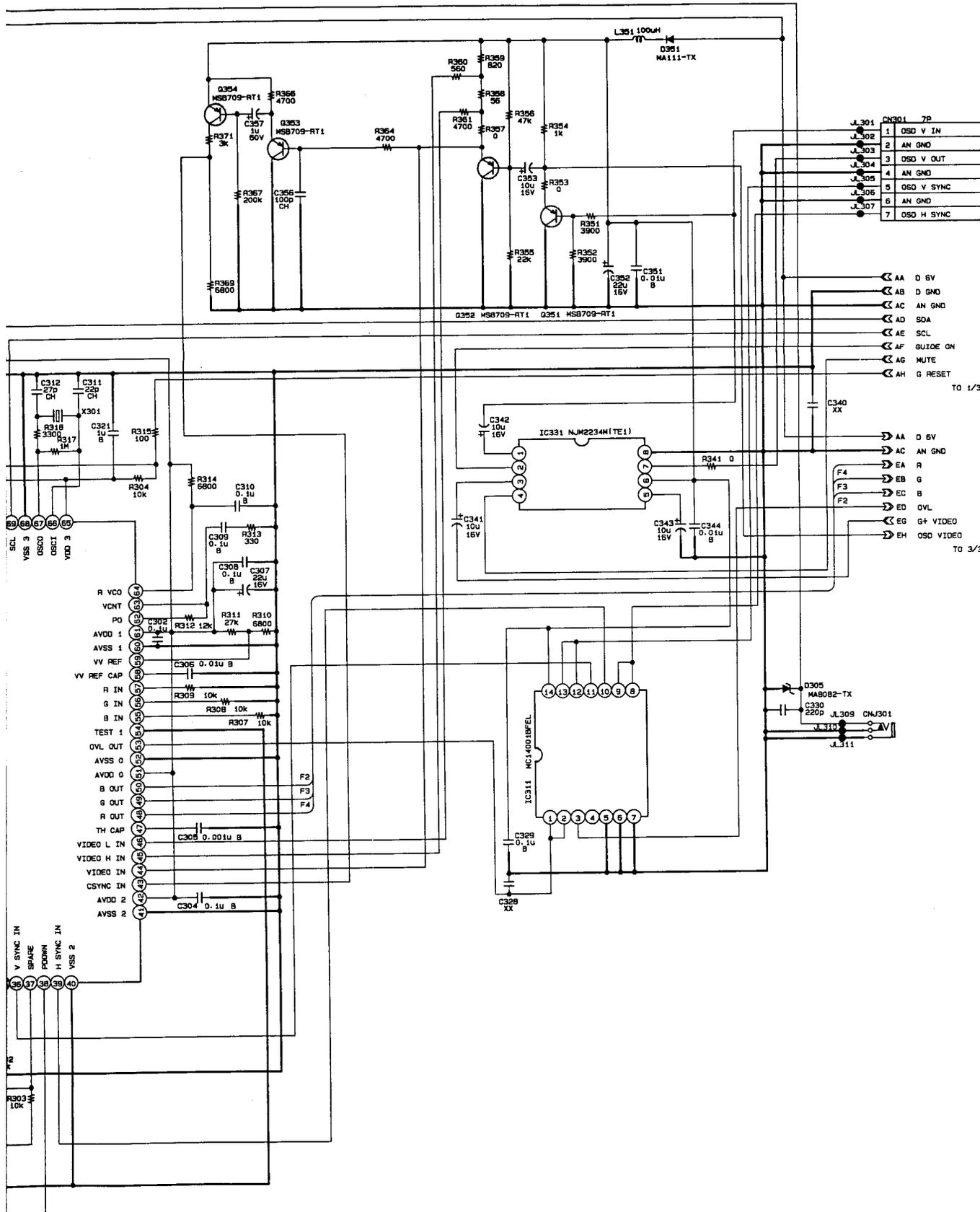
ALL capacitors are in uF(p:pF)  
unless otherwise noted.

ORIGINAL MODEL	SLV-M10HF
DESCRIPTION	AN-17







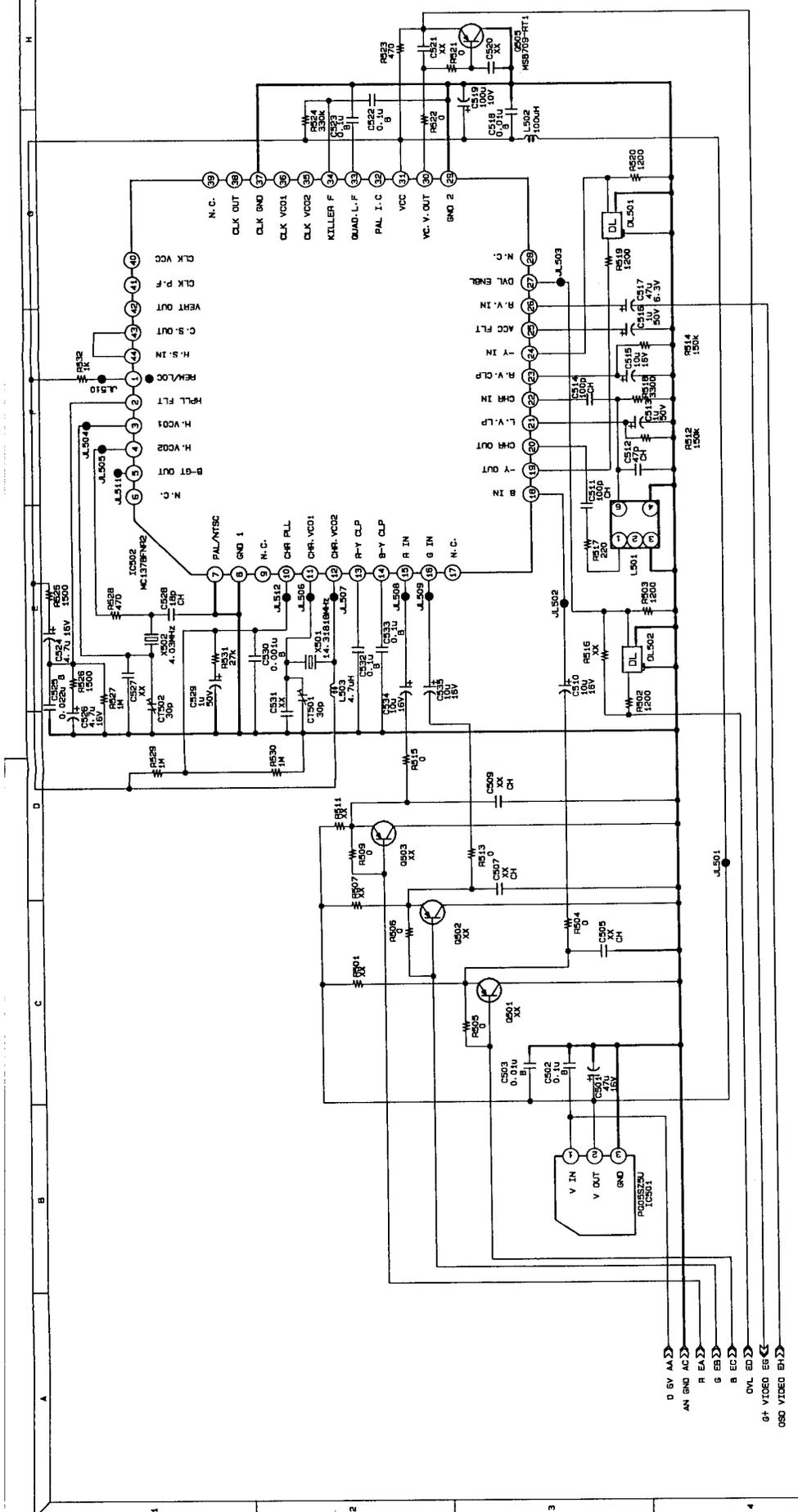


XX means no component mounted.

ALL resistors are in ohms. 1/10 W unless otherwise noted.

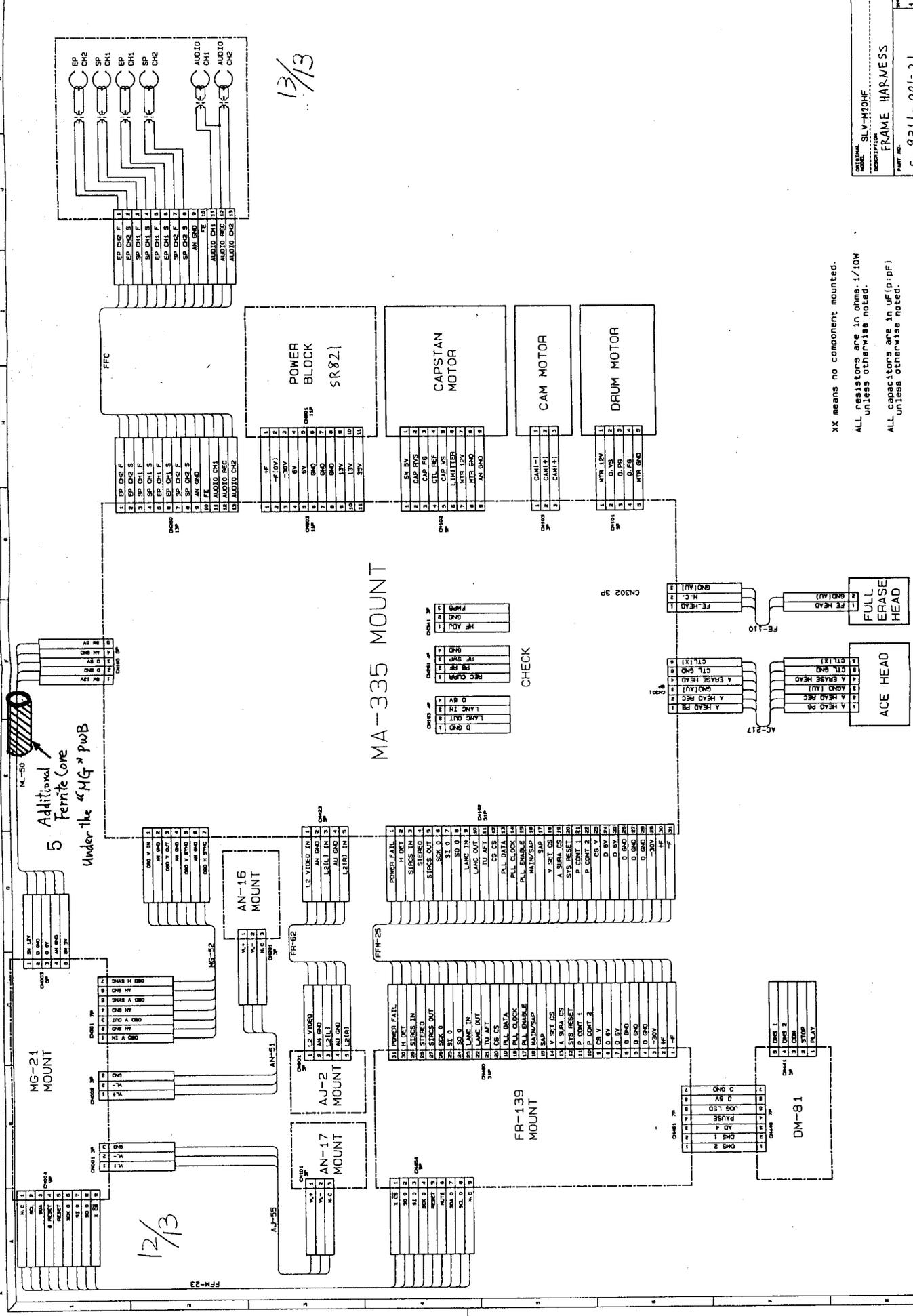
ALL capacitors are in uF(p;pF) unless otherwise noted.

ORIGINAL MODEL	SLV-M20HF
DESCRIPTION	MG-21-(2/3)
PART NO.	S-9311-015-22



XX means no component mounted.  
 ALL resistors are in ohms, 1/10 W unless otherwise noted.  
 ALL capacitors are in uF(p.p.F) unless otherwise noted.

ORIGINAL MODEL	SLV-M 20 HF
DESCRIPTION	MG-21 (3/3)
PART NO.	S-9311-015-32
SHEET	1/1



5 Additional Ferrite Core Under the "MG-21" PWB

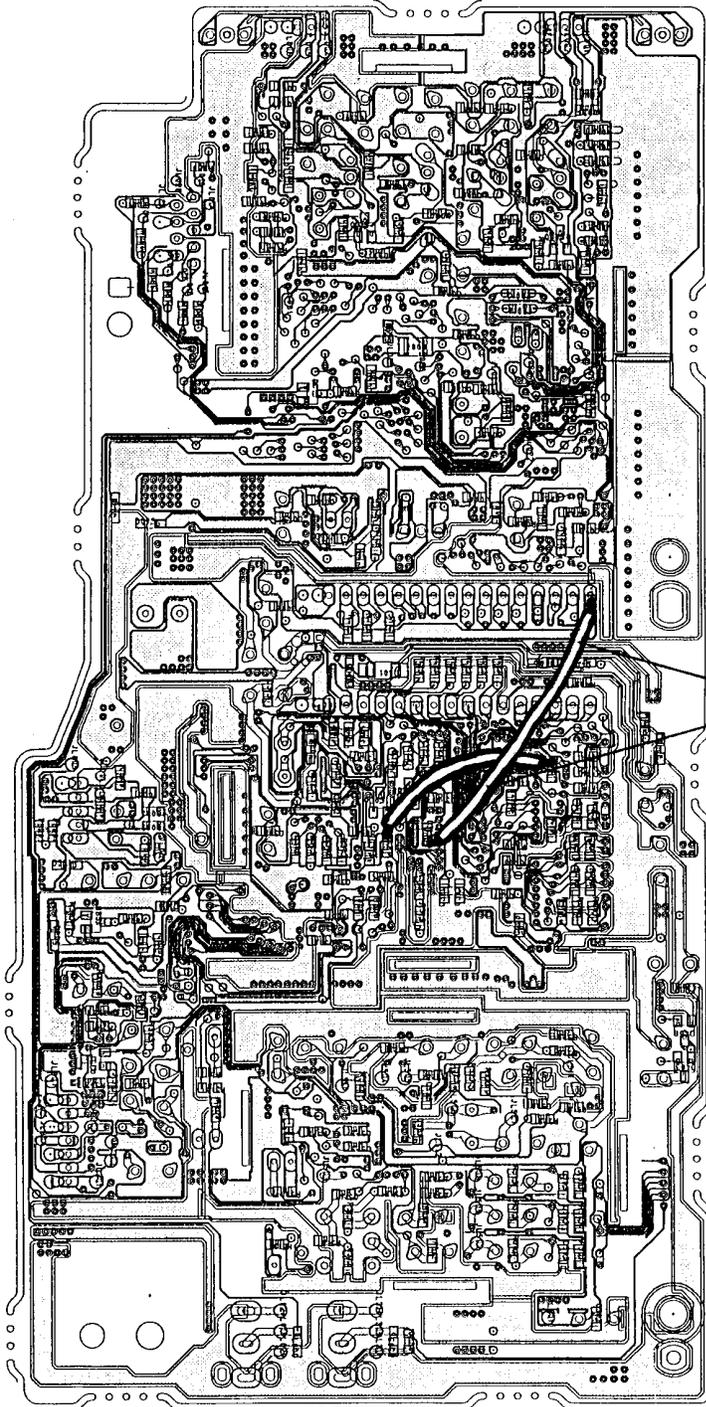
12/13

13/13

XX means no component mounted.  
 ALL resistors are in ohms. 1/10W unless otherwise noted.  
 ALL capacitors are in uF (p.pF) unless otherwise noted.

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3/13



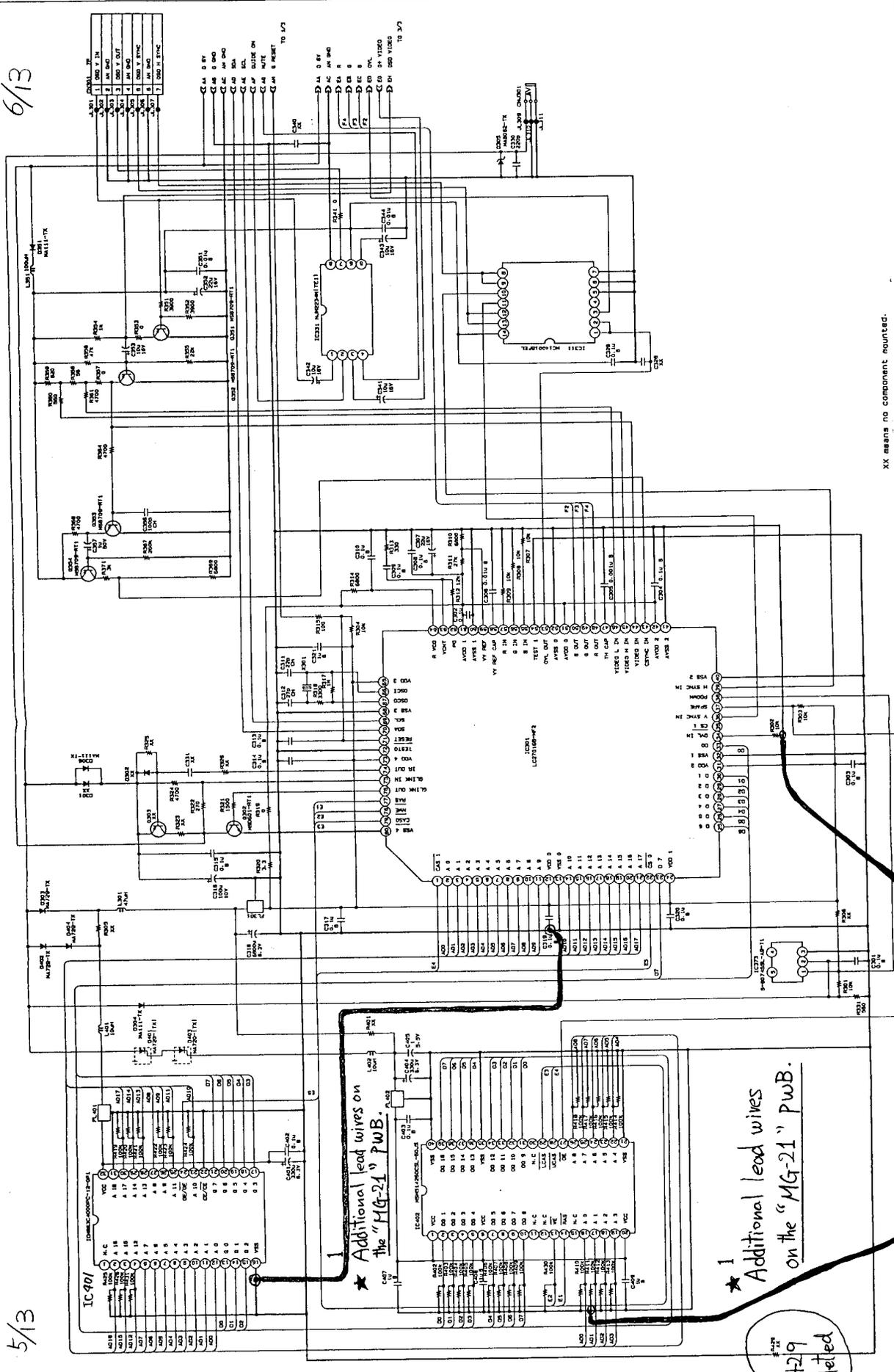
★ 1 Additional Lead wires on the "MG-21" PWB.

MG-21 (2/2)

M-9311-007-22

6/13

5/13



★ Additional lead wires on the "MG-21" PWB.

★ Additional lead wires on the "MG-21" PWB.

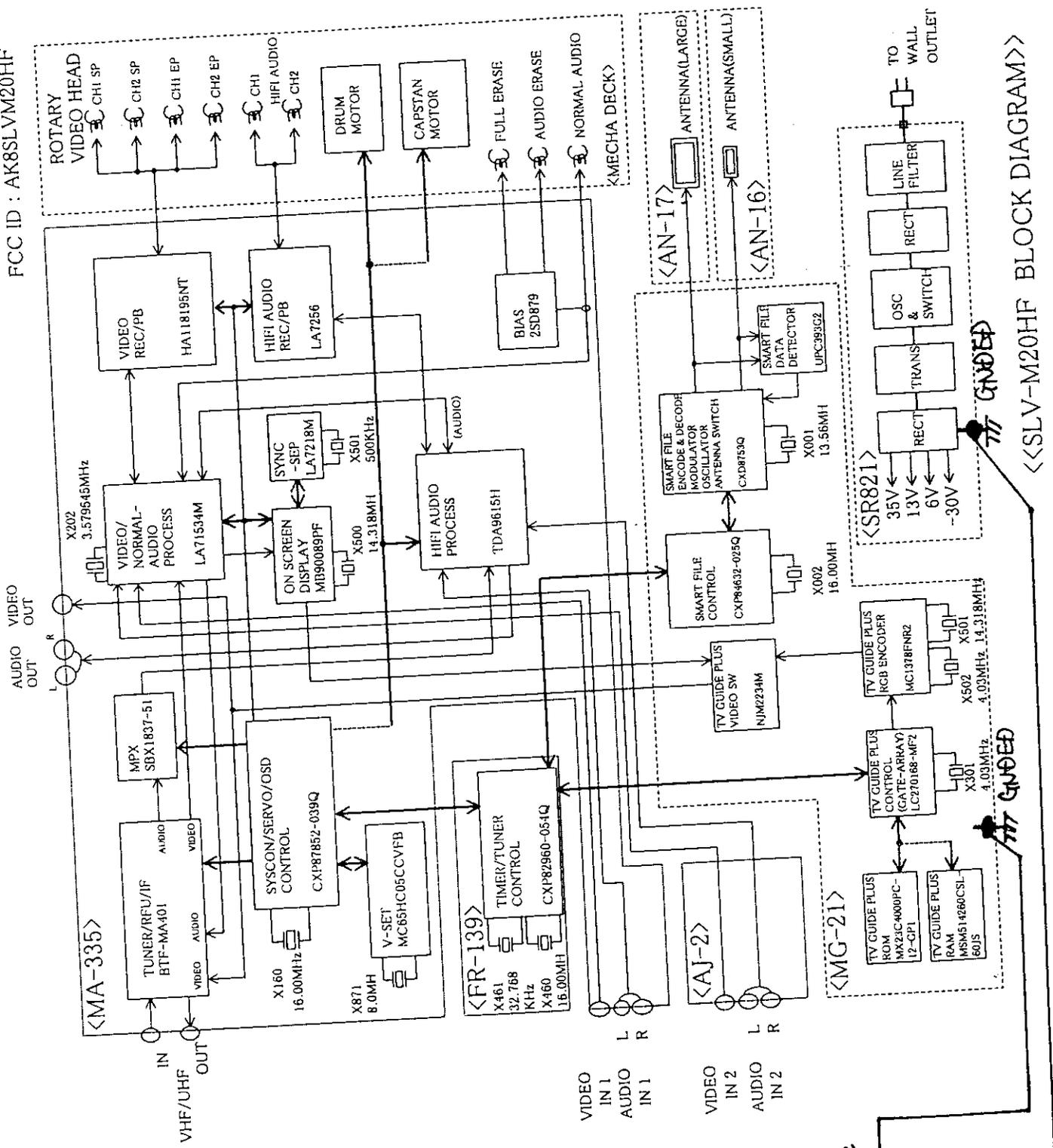
2  
R429 Deleted

XX means no component mounted.  
 ALL resistors are in ohms -  $\frac{1}{10}$  M unless otherwise noted.  
 ALL capacitors are in  $\mu$ F:p:F unless otherwise noted.



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FCC ID : AK8SLVM20HF



3 Additional "Lag terminal wire"  
( 2 wires )

Mechanical deck (Metal)

<<SLV-M20HF BLOCK DIAGRAM>>