



Exhibit 4: Schematics

External Radio Frequency Power Amplifier ACOM 2000A Model 2000A

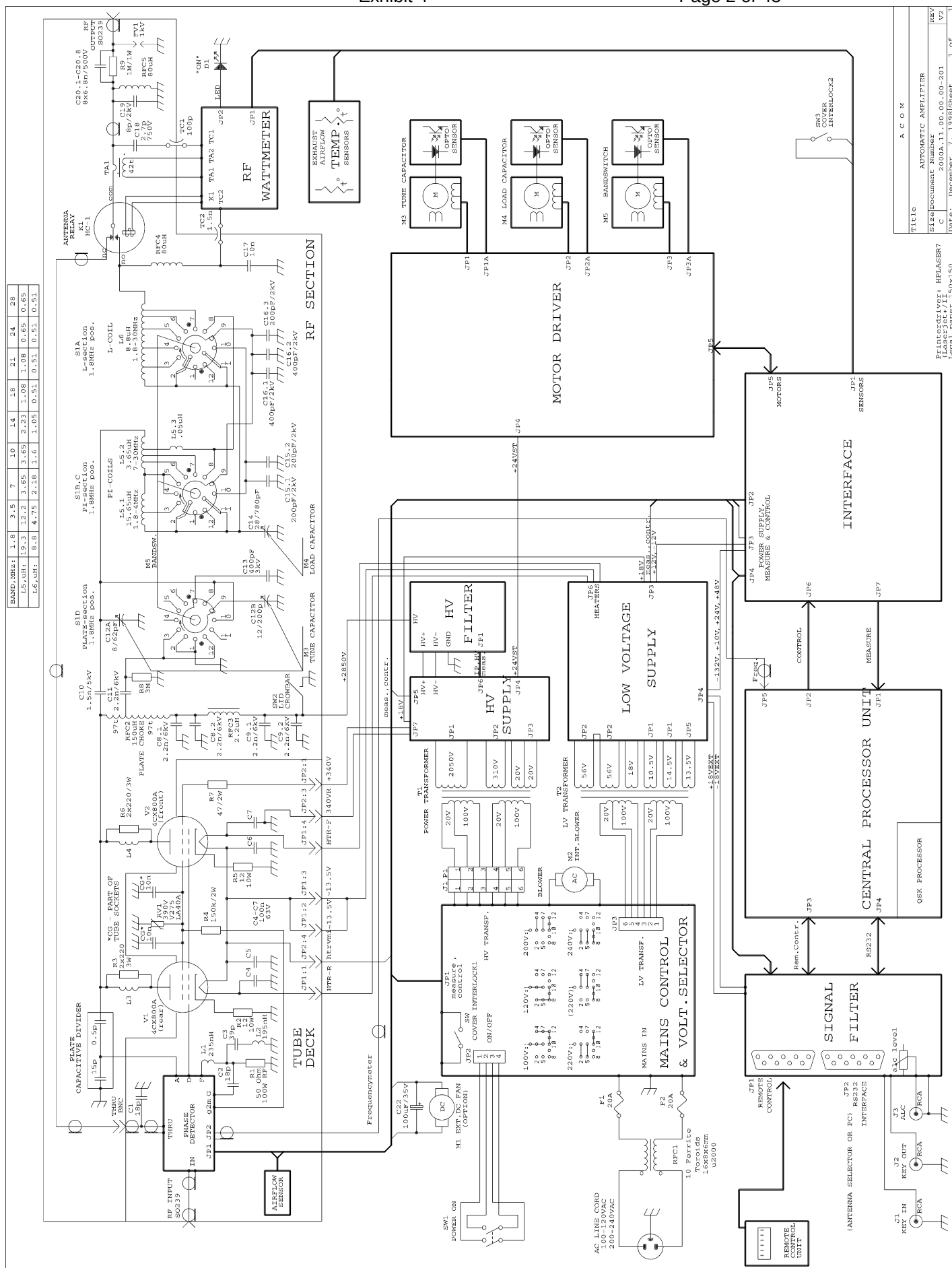
157 Horse Pond Road, Sudbury, MA 01776

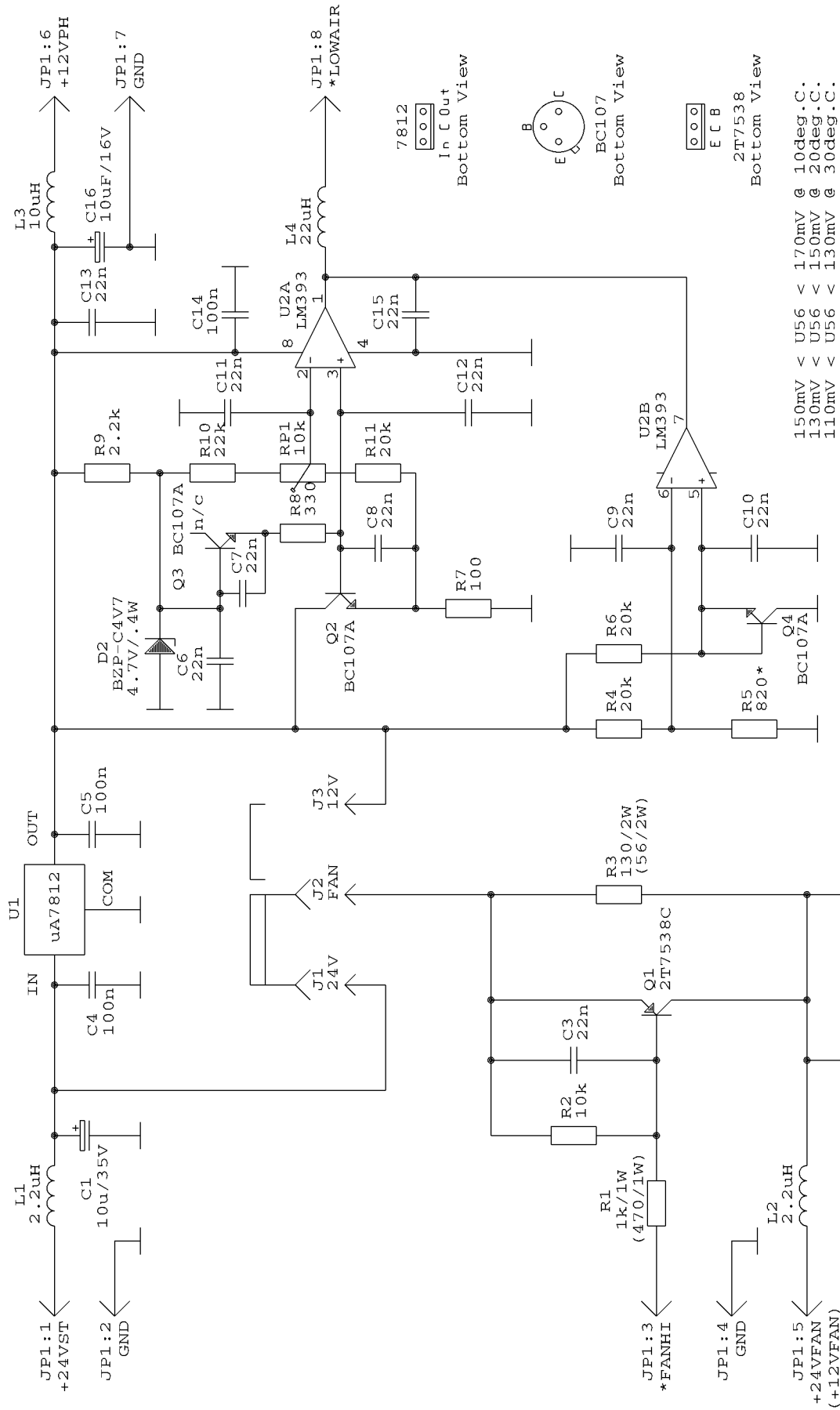
Tel: (978) 440-7555

Fax: (978) 440-9080

e-mail: aa1nd@aol.com

BAND, MHz:	1.8	3.5	7	10	14	18	21	24	28
L5, uH:	19.3	12.2	3.65	3.65	2.23	1.08	1.08	0.65	0.65
L6, uH:	8.8	4.95	2.18	1.6	1.05	0.51	0.51	0.51	0.51





U23 < -55mV
bez obduhwane (pod kapak)
ugaswa 10-15s sled wkl.na went.pri 12V

U23 > 25mV
wentilator pri 12V
swetwa ~20s sled izkl.na wentilat.

U23 = +5...10mV pri wentilat.=4V

A C O M

Title

AIR SENSOR AND CONTROL

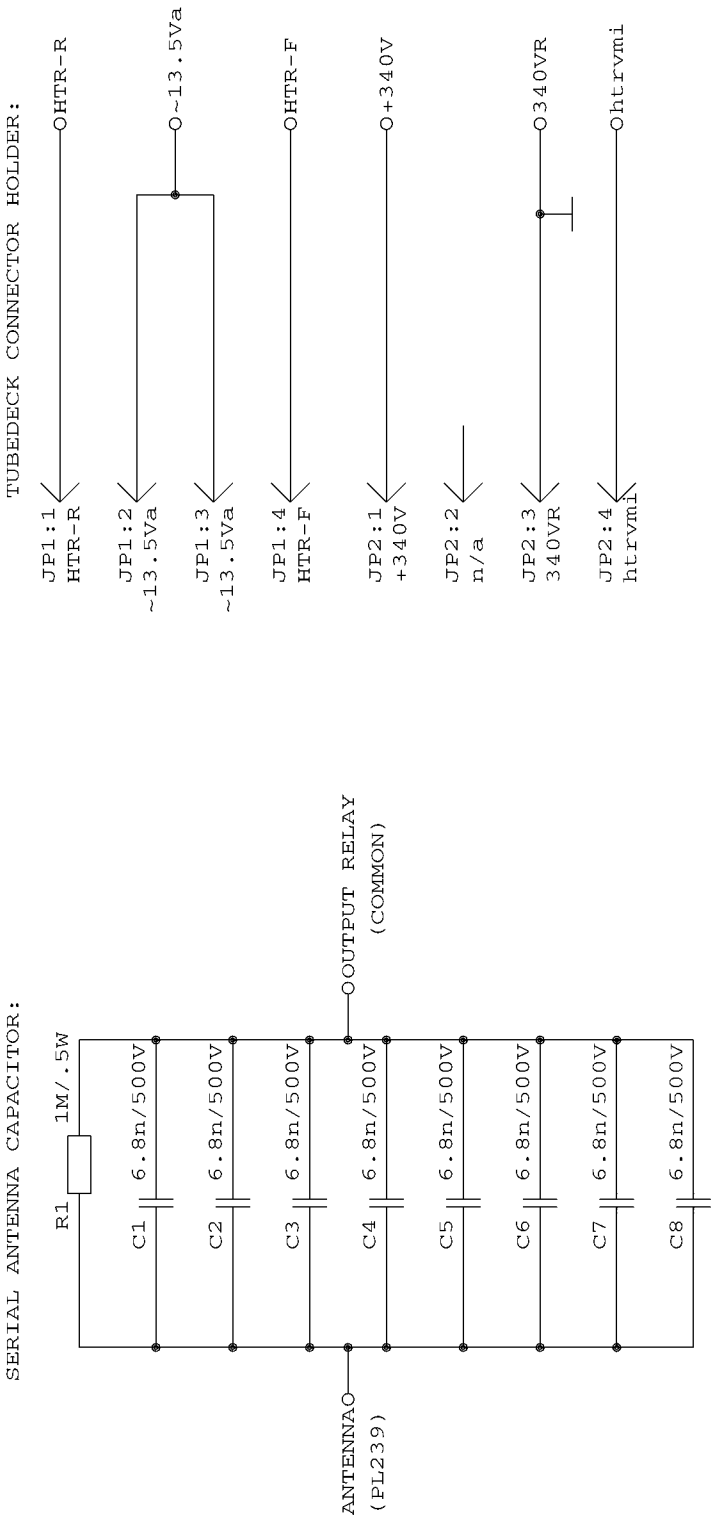
Size Document Number

A 2000A.11.06.40.00-201

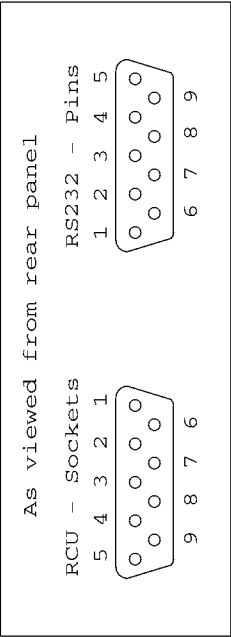
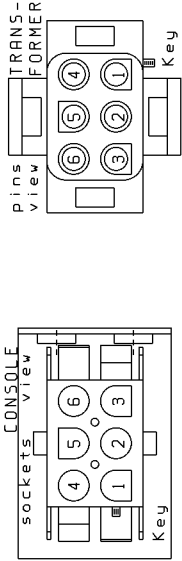
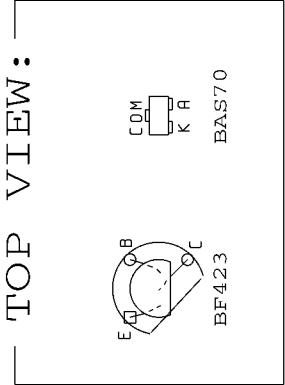
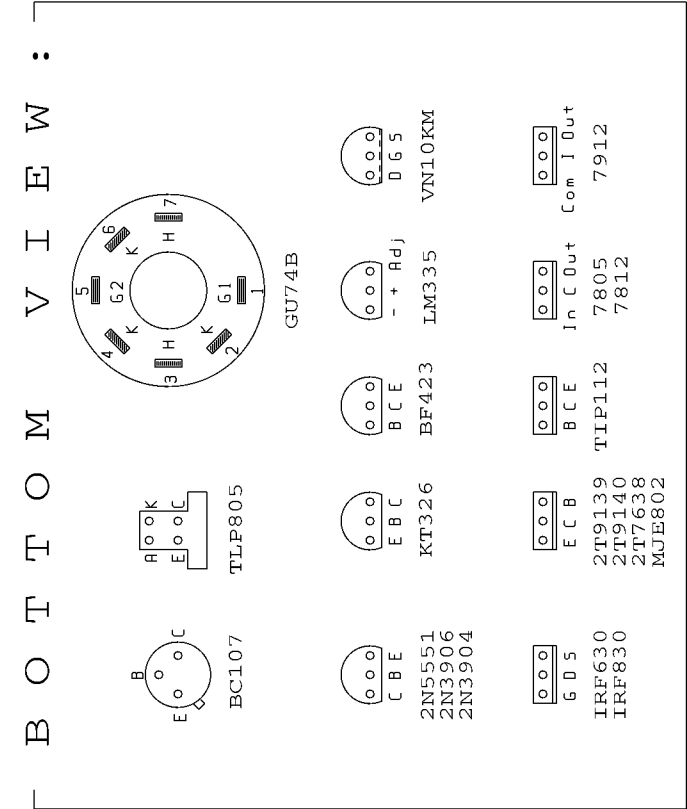
Date: September 7, 1998 Sheet 1 of 1

REV

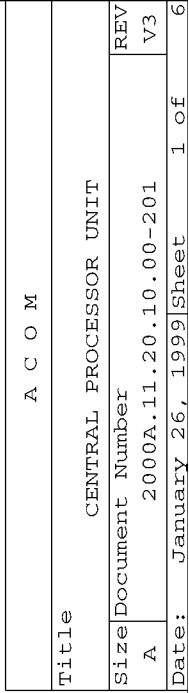
V1

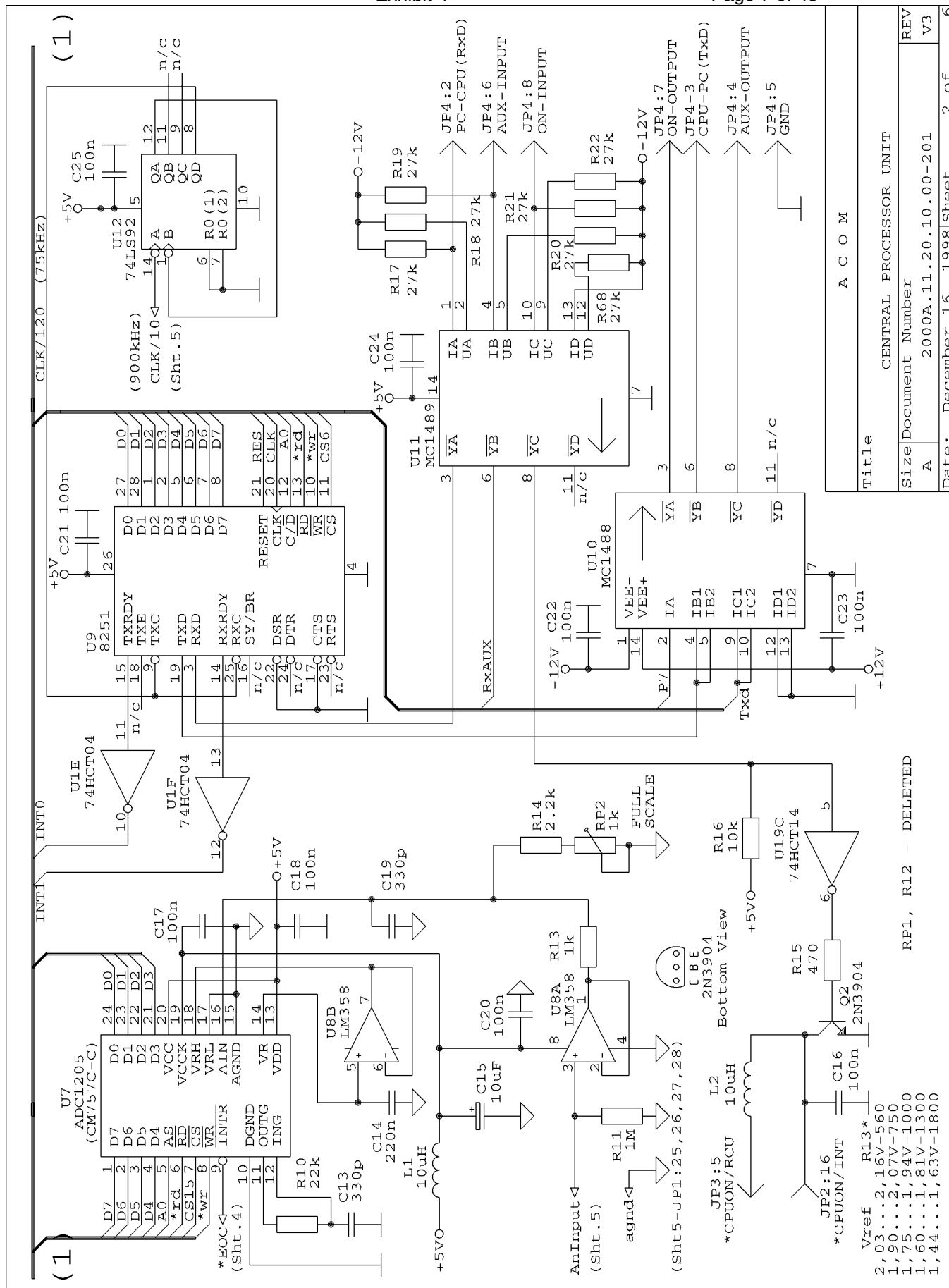


A C O M				
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ANTENNA CAPACITOR & CONNECTOR HOLDER				
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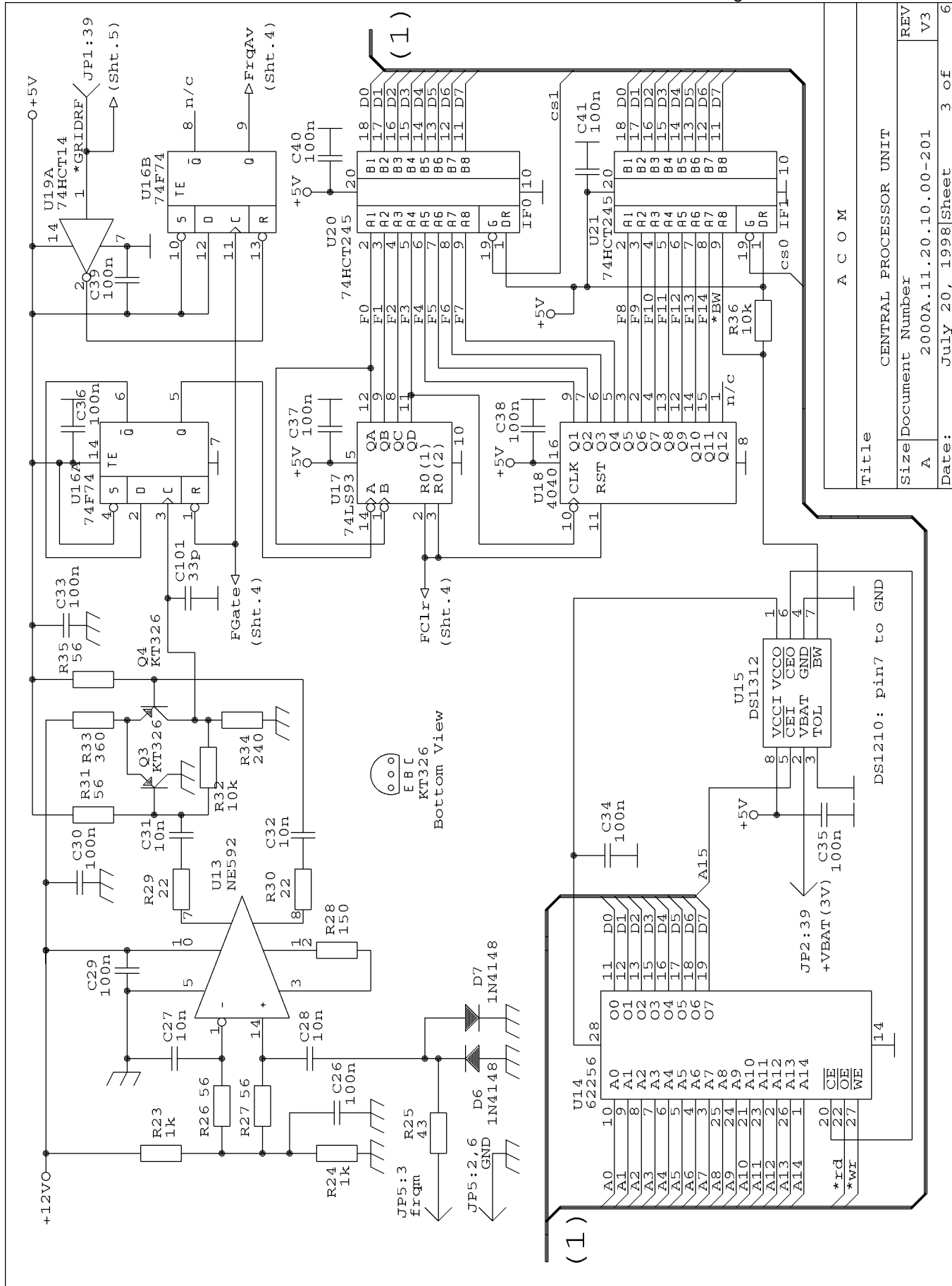


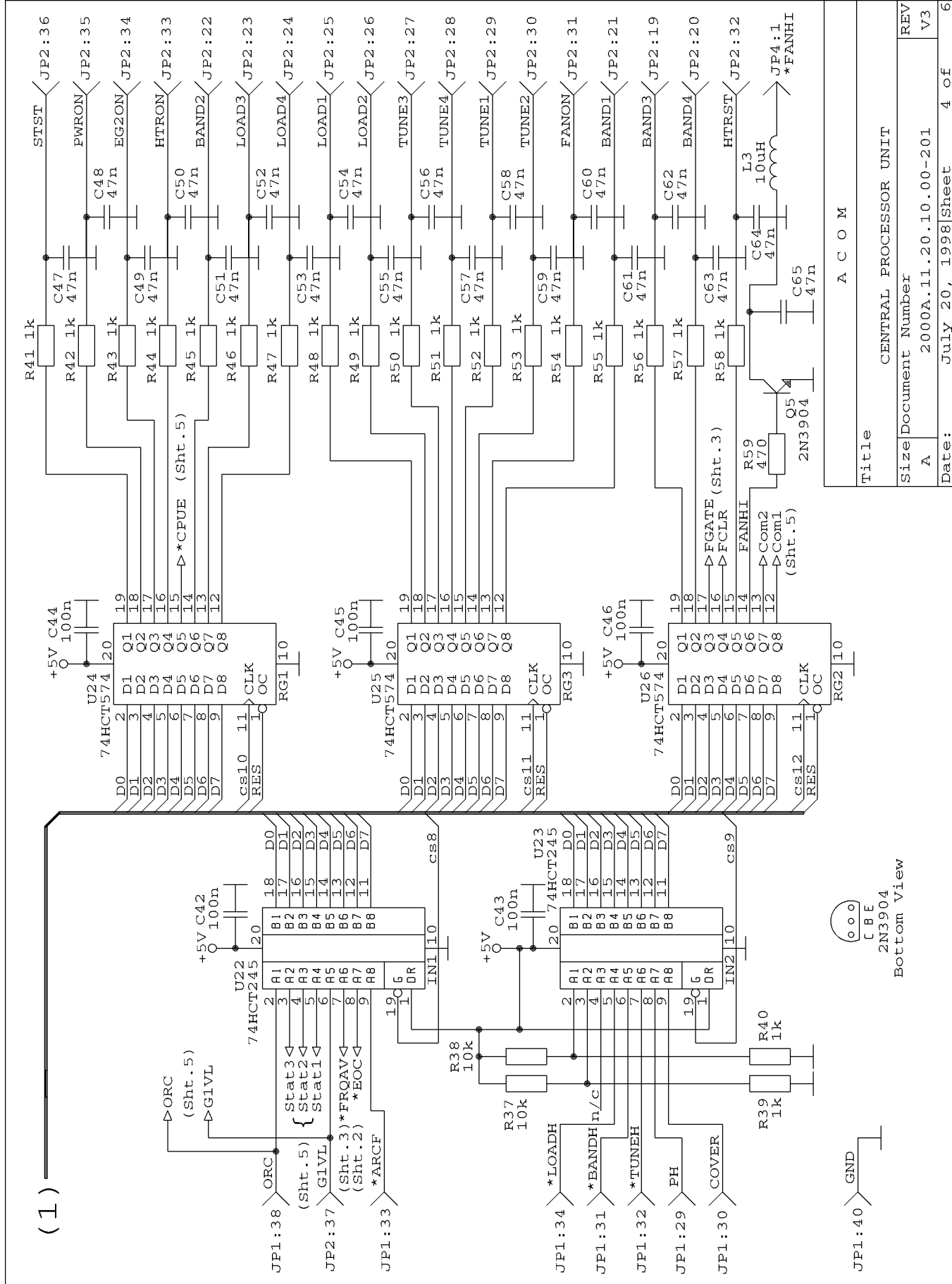
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Document Number			ACOM2000A - 301
Date:			December 7, 1998
Sheet			1 of 1



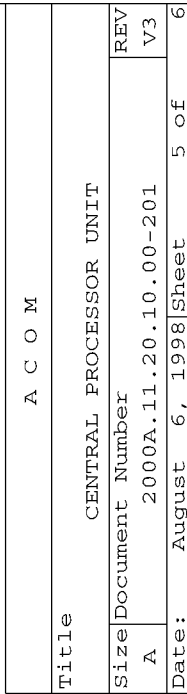


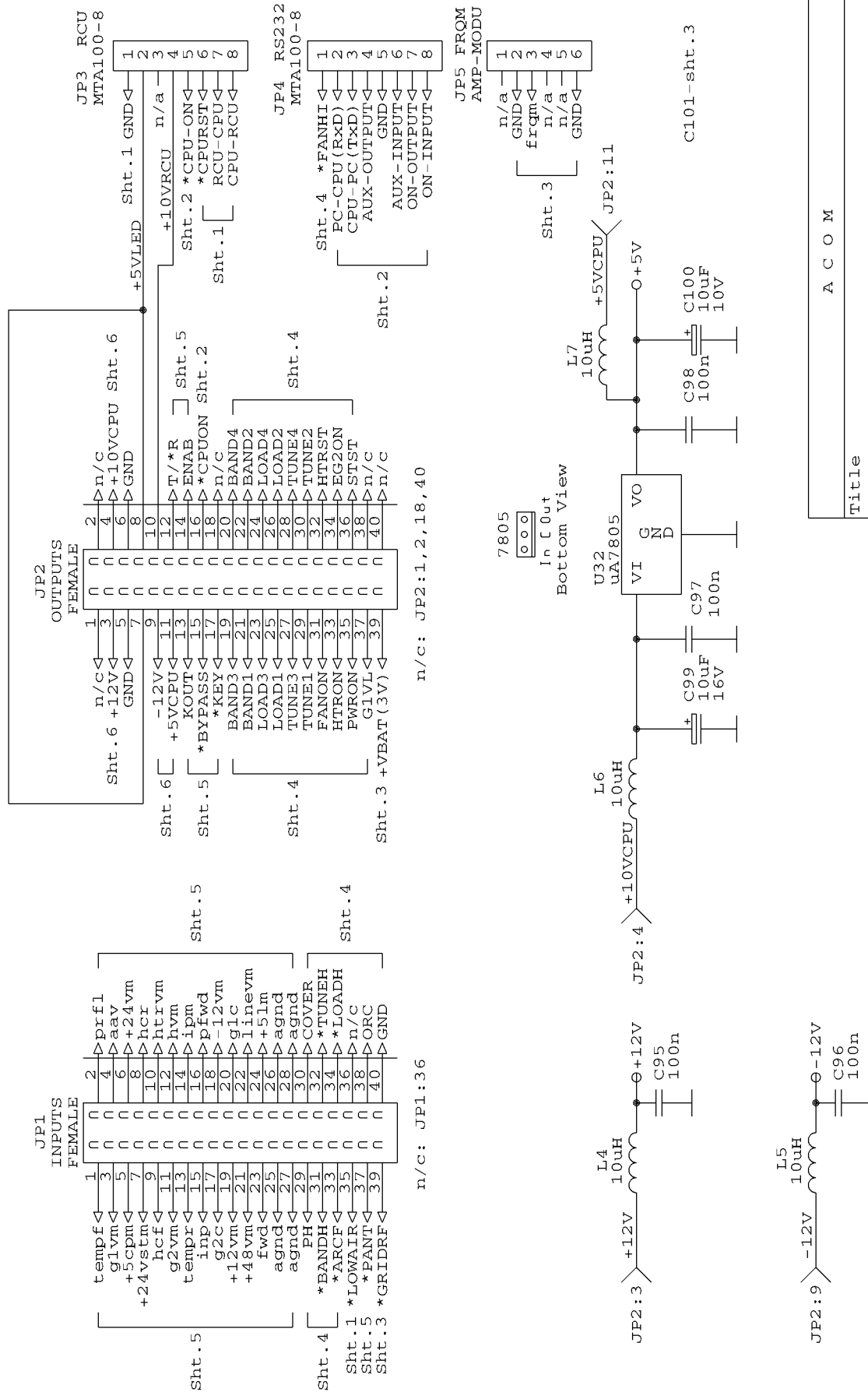
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Size	Document Number
A	2000A.11.20.10.00-201
Date:	December 16, 1998
	Sheet 2 of 6
	REV V3



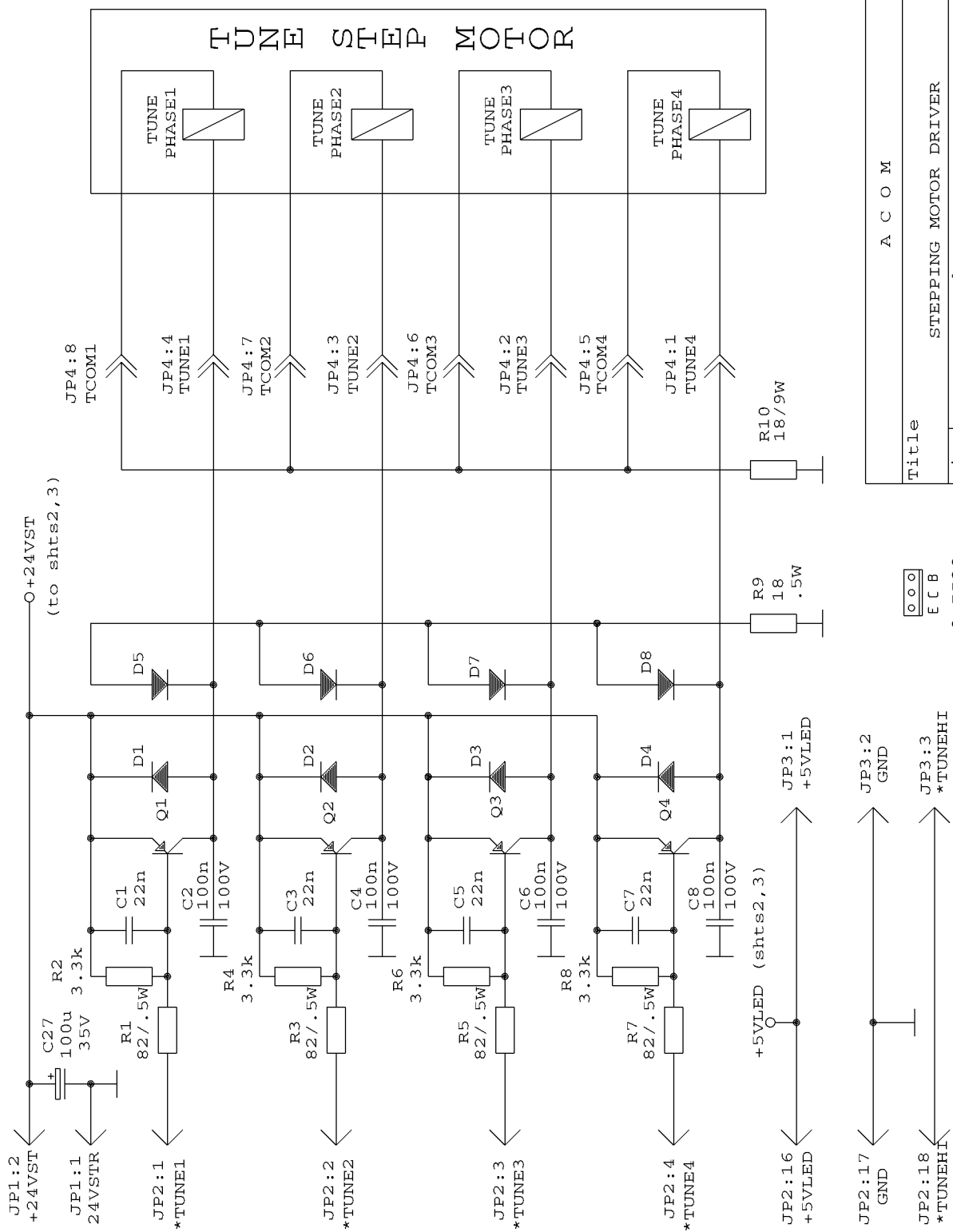


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Date:	July 20, 1998	Sheet	





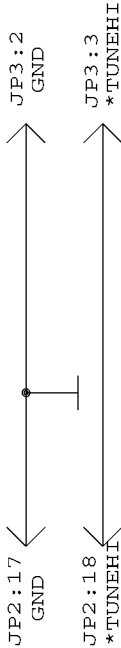
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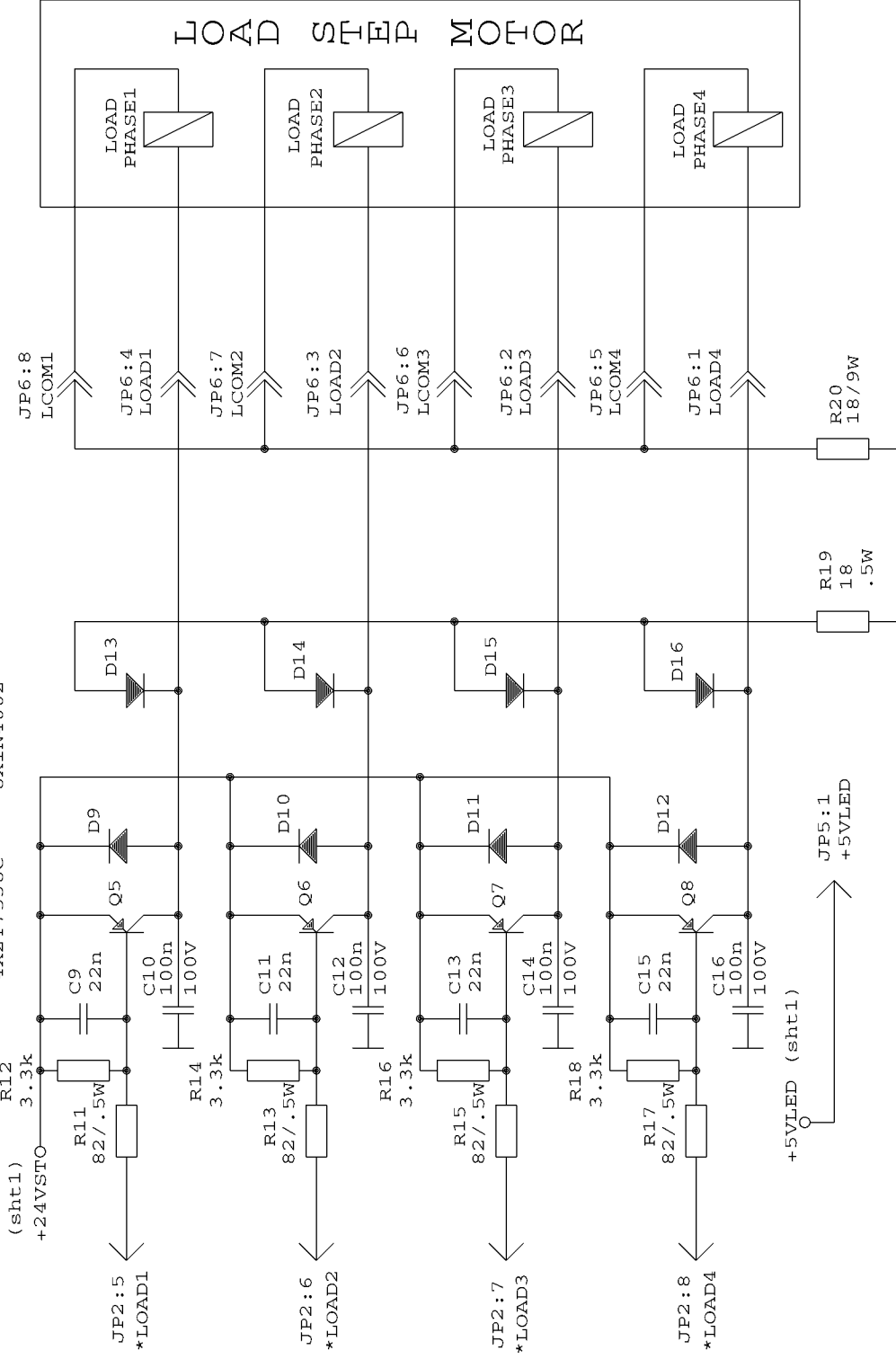


A C O M		
STEPPING MOTOR DRIVER		
Size	Document Number	REV
A	2000A.11.16.00-201	V2
Date:	July 20, 1998	Sheet 1 of 3

2T7538

Bottom View



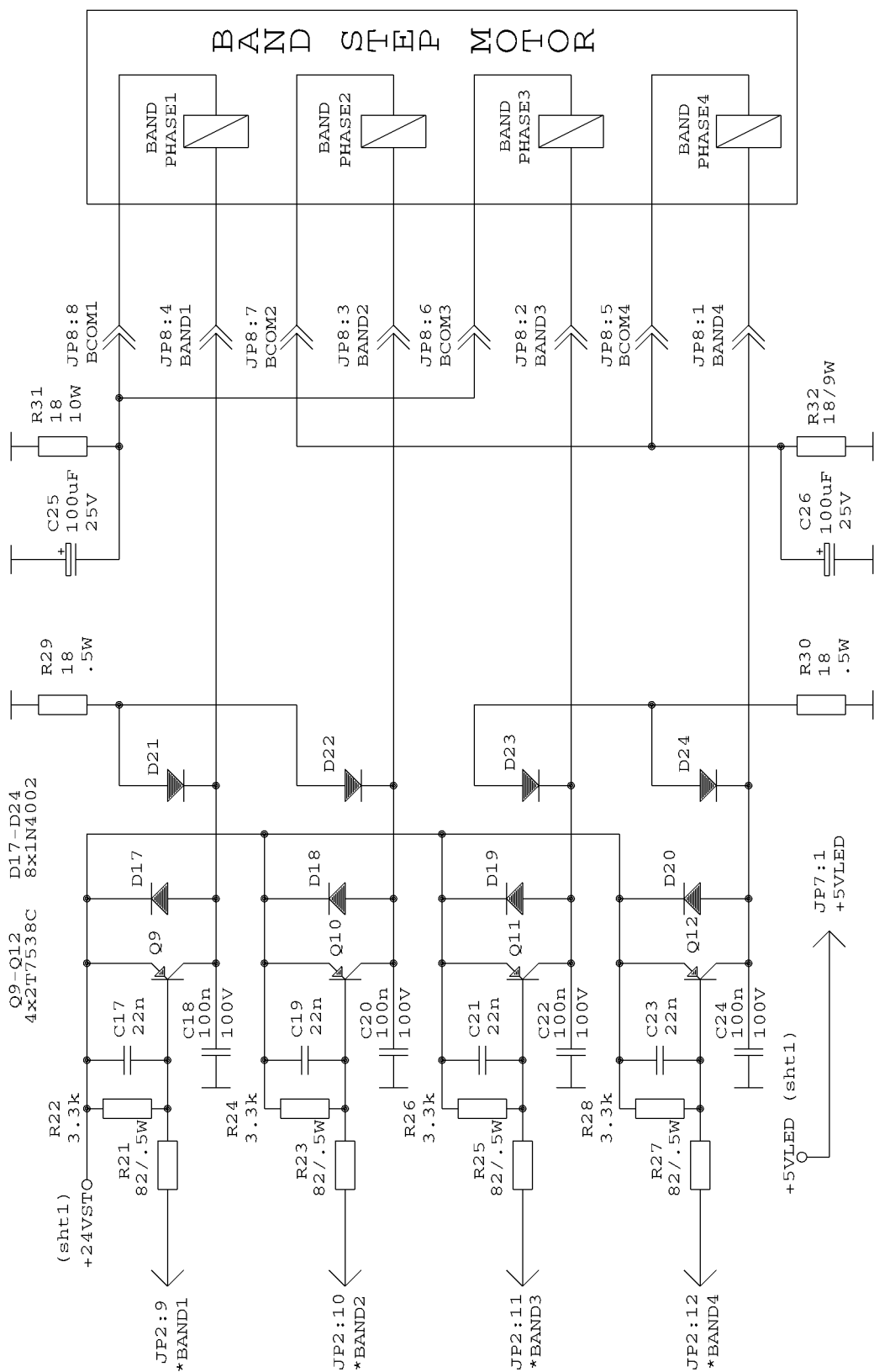


A C O M

Title		STEPPING MOTOR DRIVER	
Size	Document Number	REV	
A	2000A.11.16.00.00-201	V2	
Date:	July 20, 1998	Sheet	2 of 3

2T7538
Bottom View

Not connected:
JP5:14,15



1003

2T7538
Bottom View

A C C O M

Title

STEPPING MOTOR DRIVER

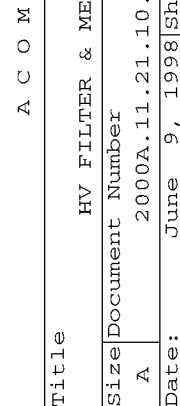
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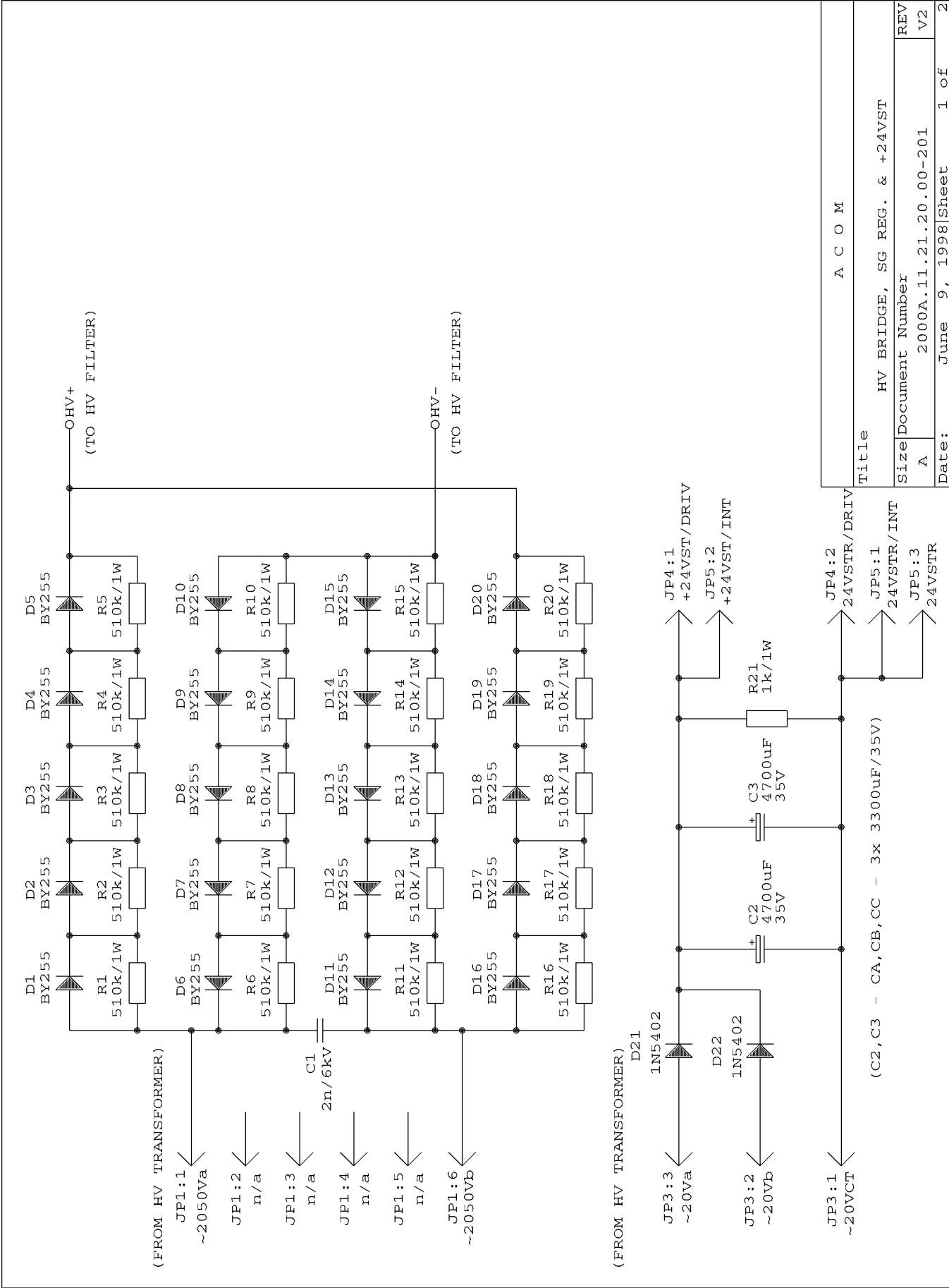
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Date:	July 20, 1998	Sheet 3 of
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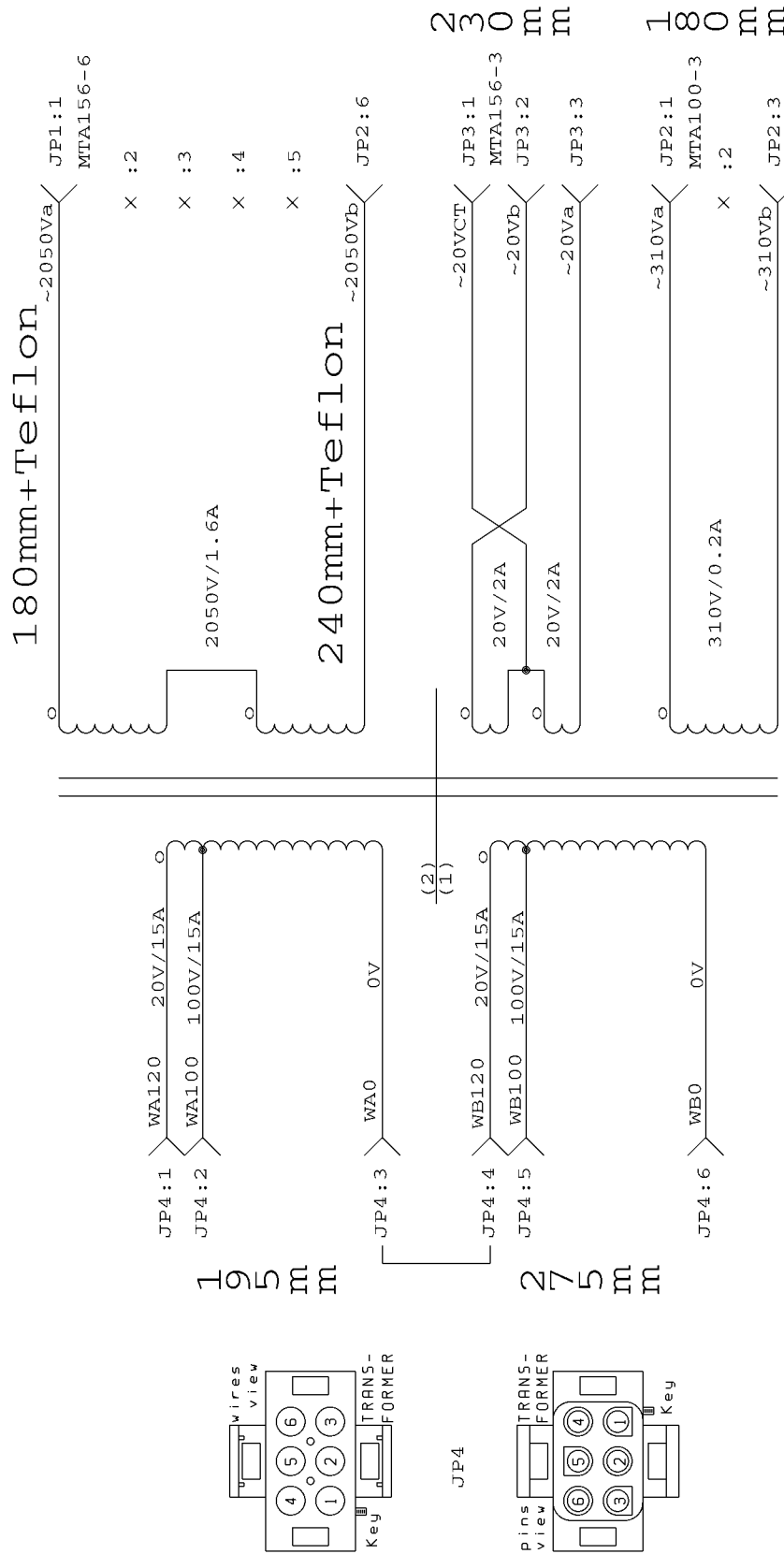
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3 of 3

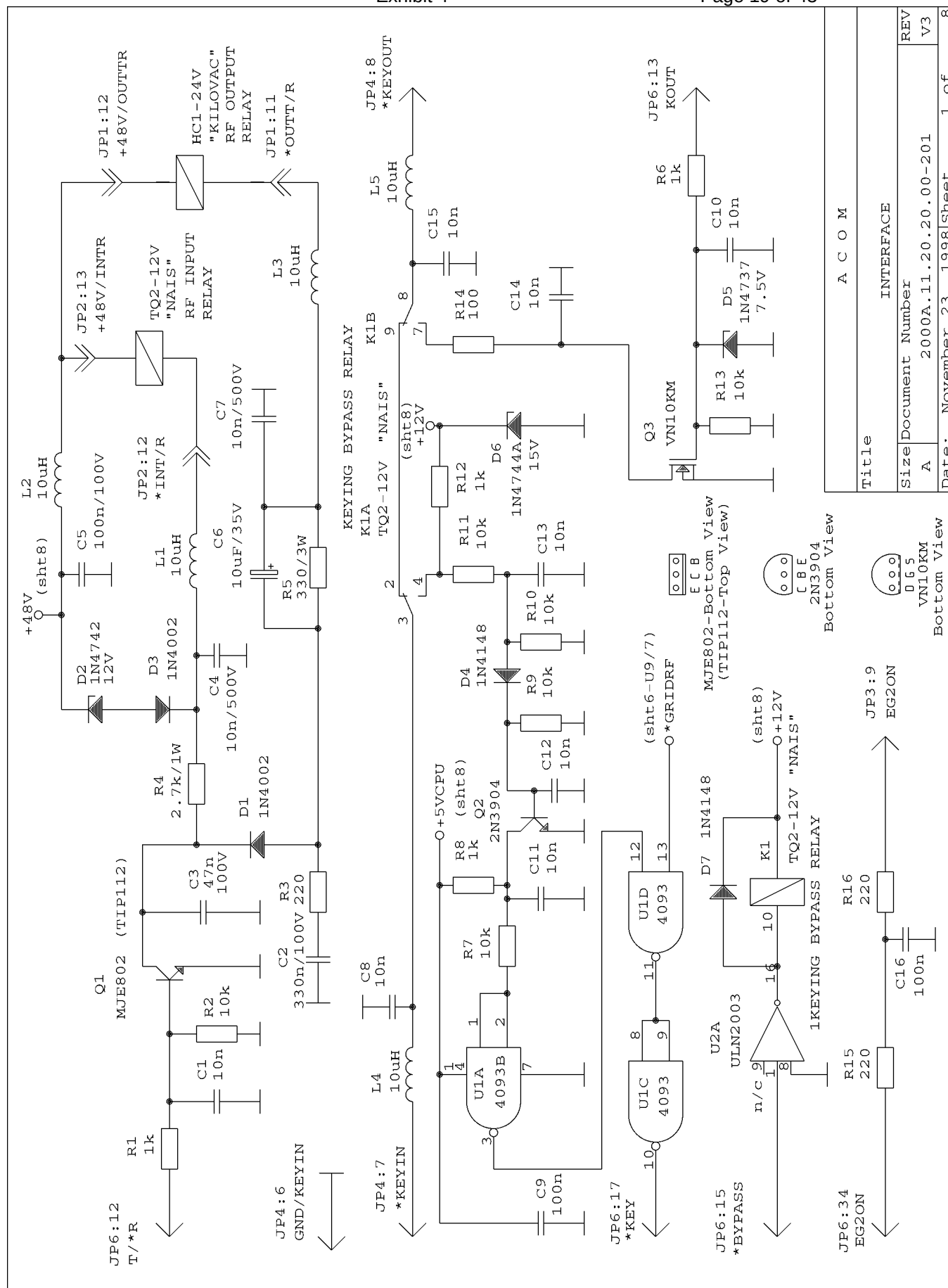




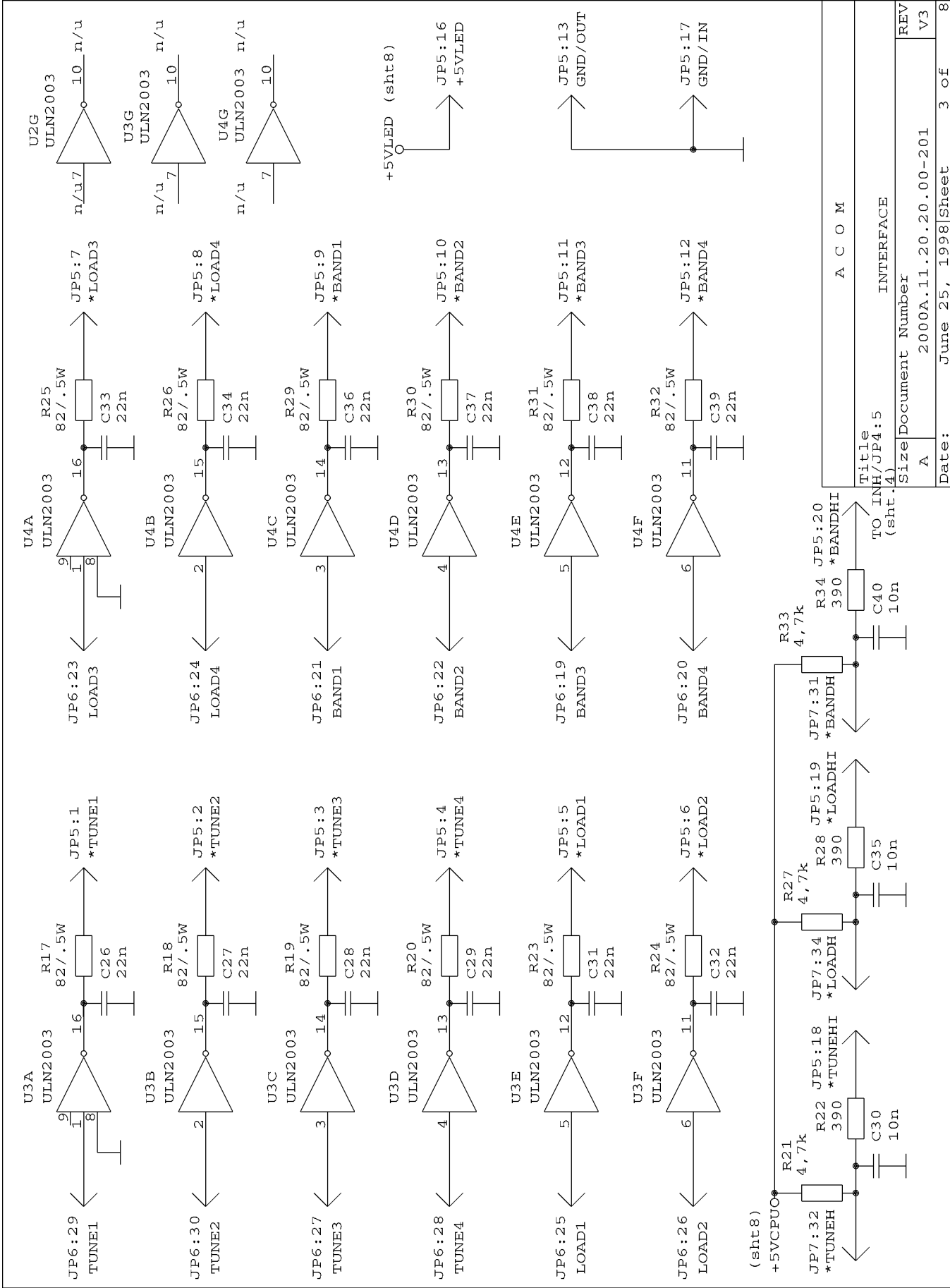


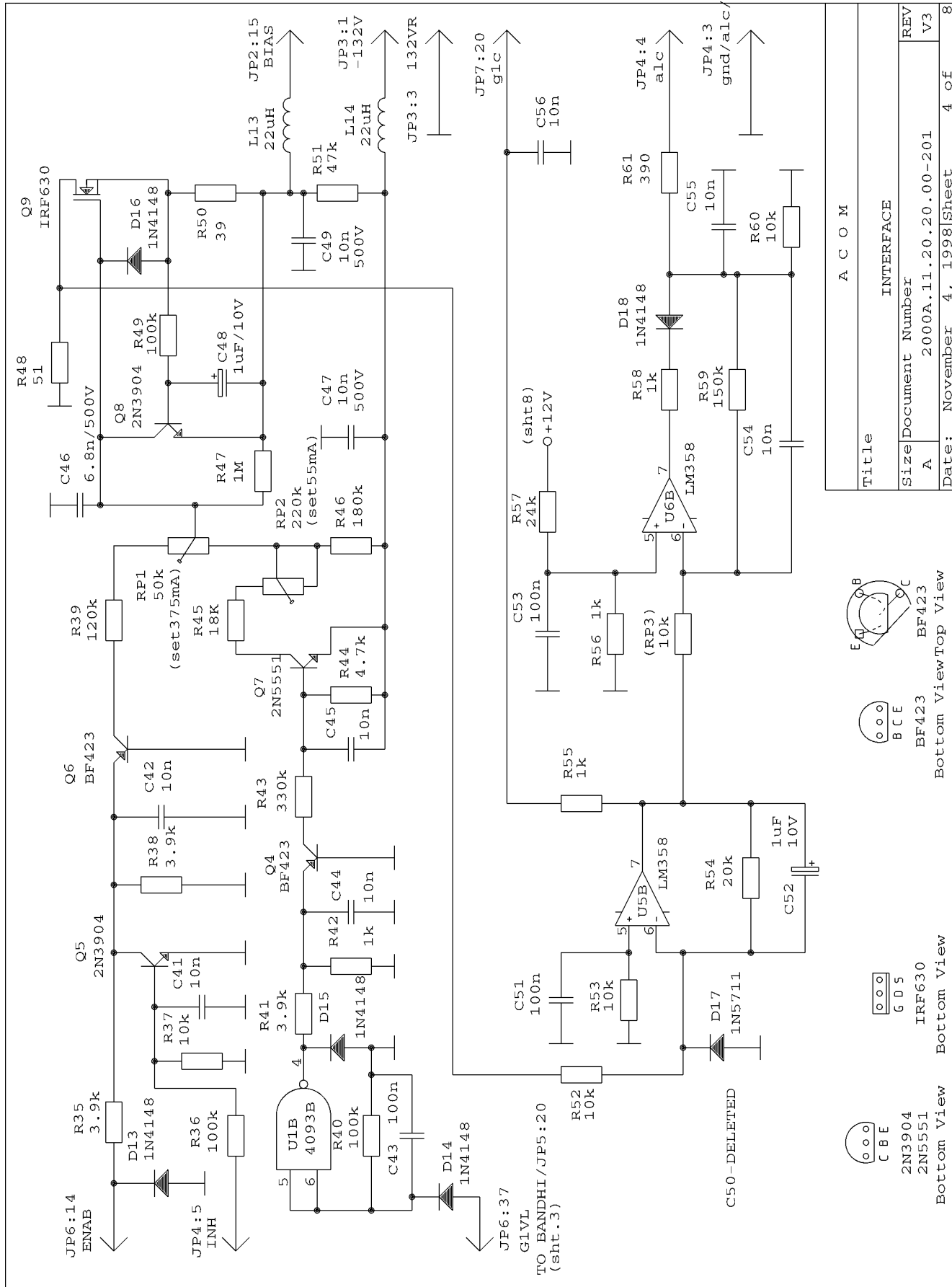


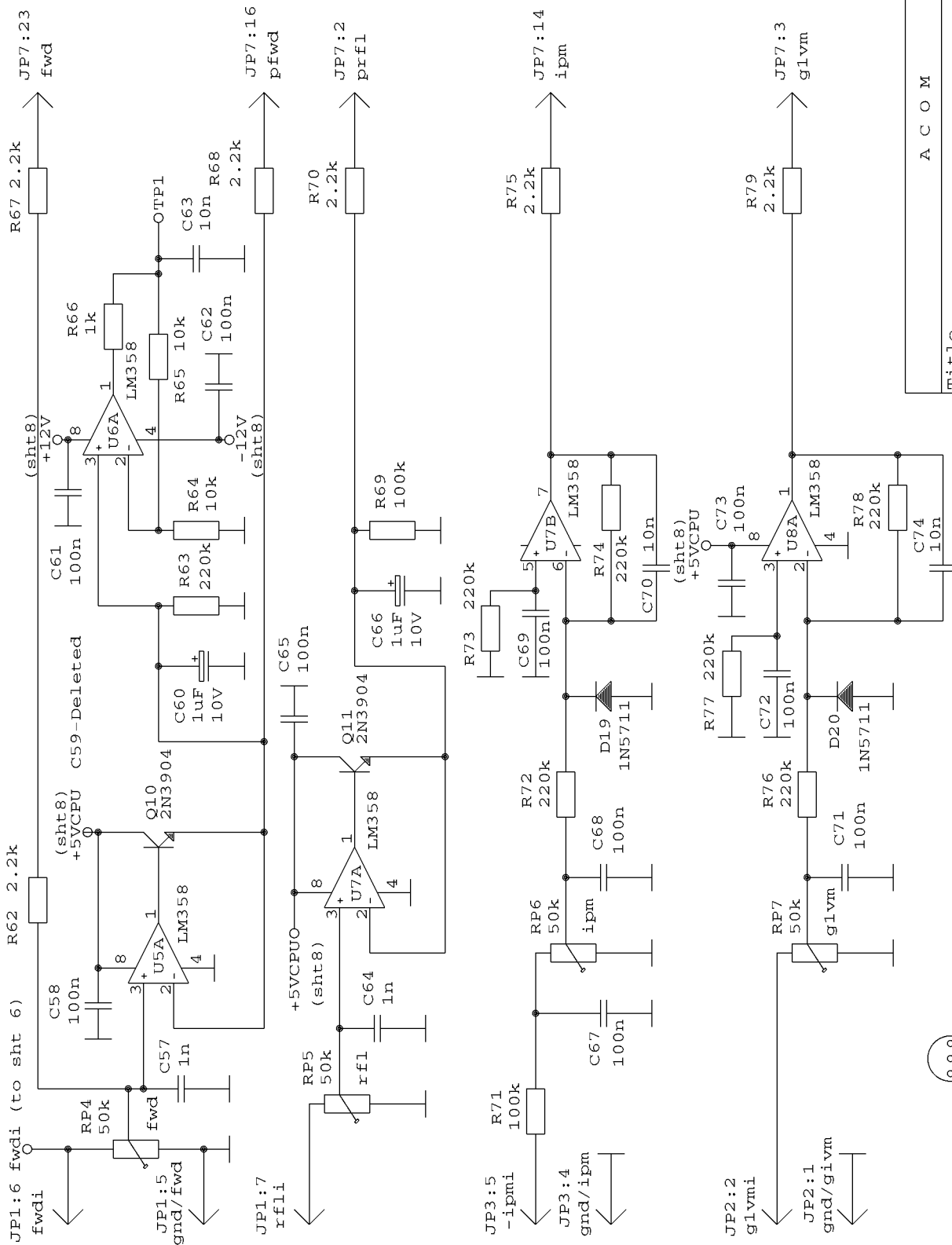
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HIGH VOLTAGE TRANSFORMER		
Size	Document Number	
A	2000A.12.00.00.00-201	
Date:	November 5, 1998	Sheet 1 of 1



A C O M	
Title	
INTERFACE	
Size	Document Number
A	2000A.11.20.20.00-201
Date:	November 23, 1998
	Sheet 1 of 8







2N3904
CBE

Bottom View

A C O M

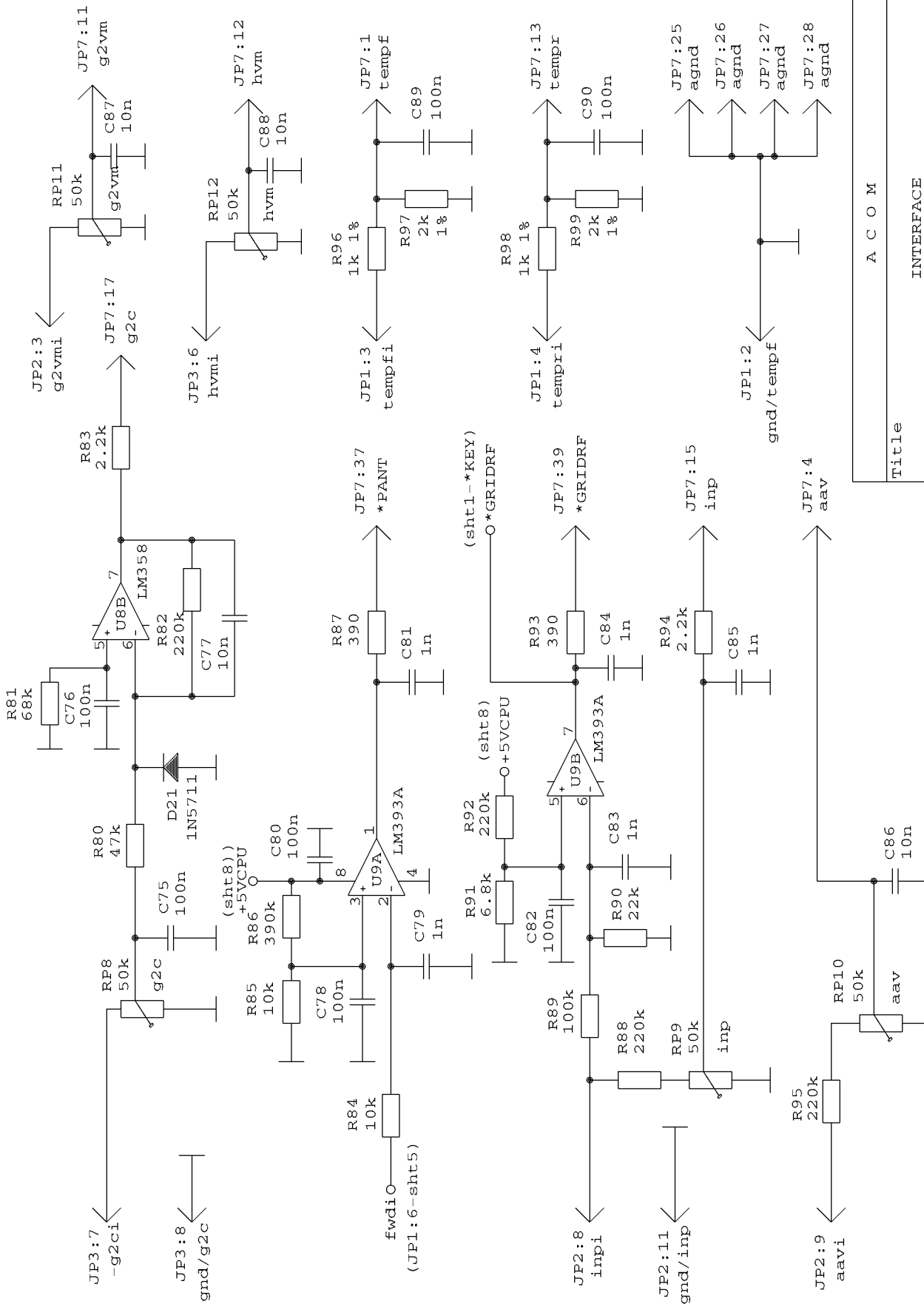
INTERFACE

Size	Document Number
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A	2000A.11.20.20.00-201
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Date:	August 6, 1998	Sheet 5 of 5
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8



A C O M

Title

INTERFACE

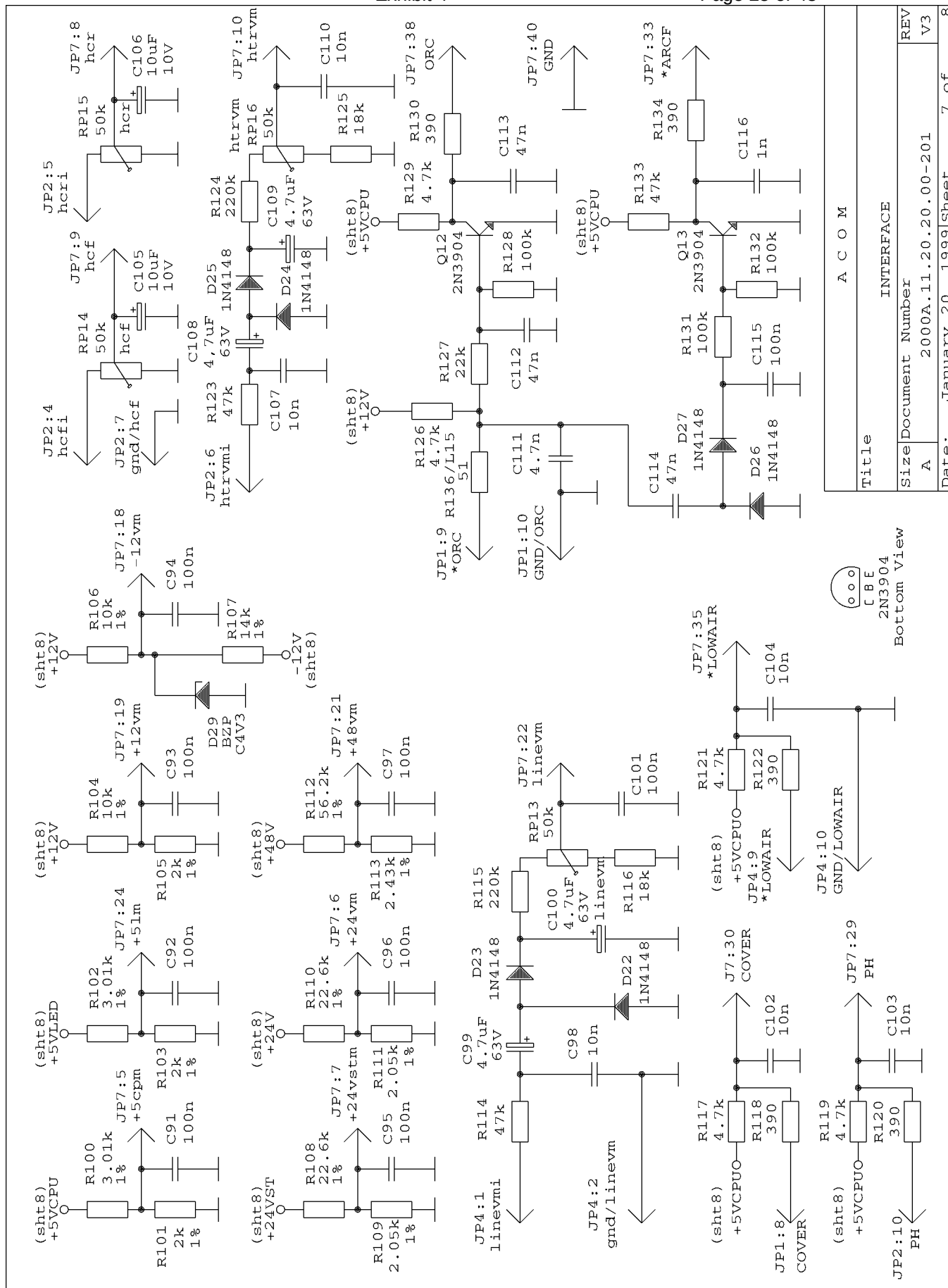
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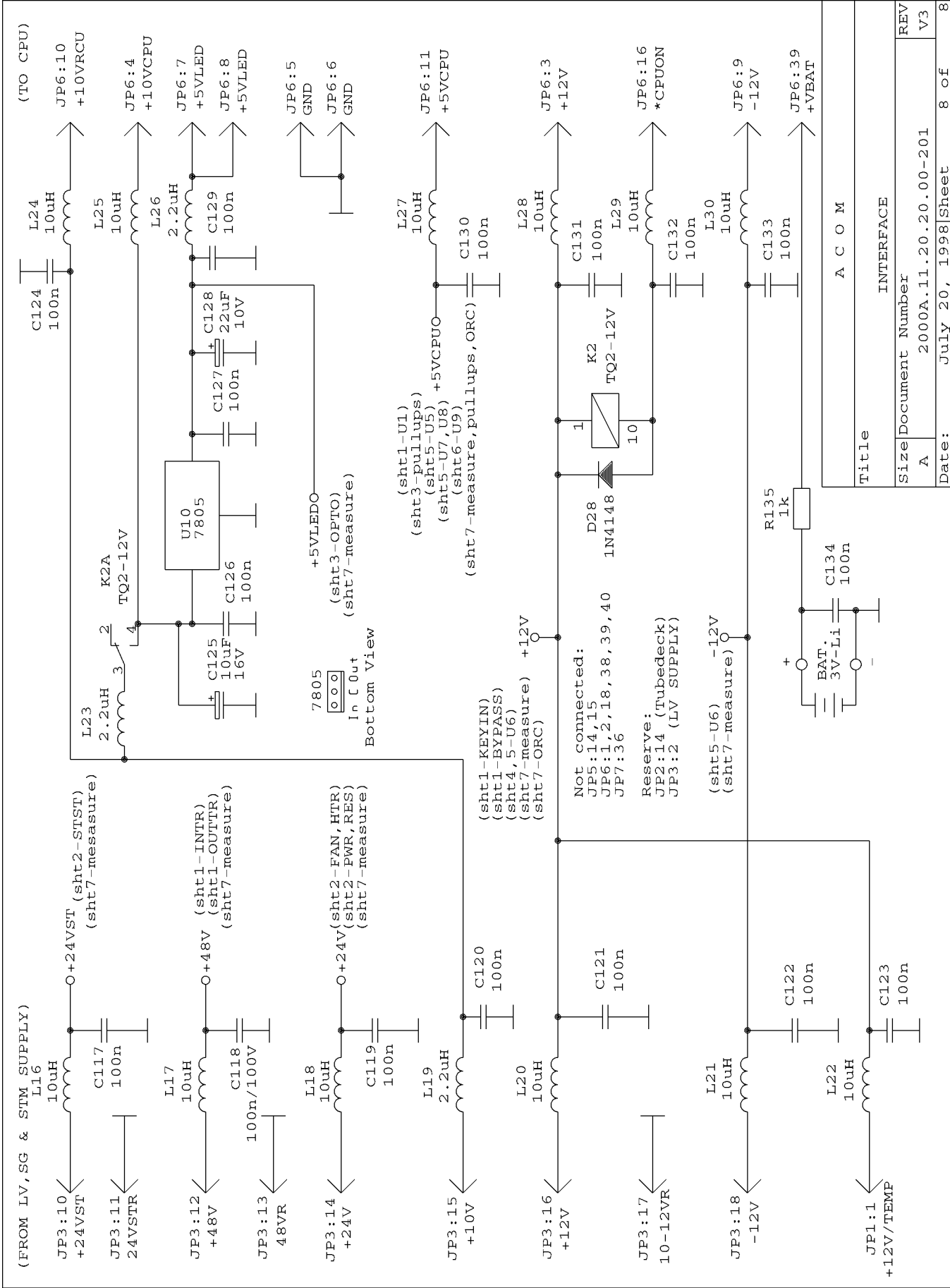
Date: December 16, 1998 Sheet 6 of 8

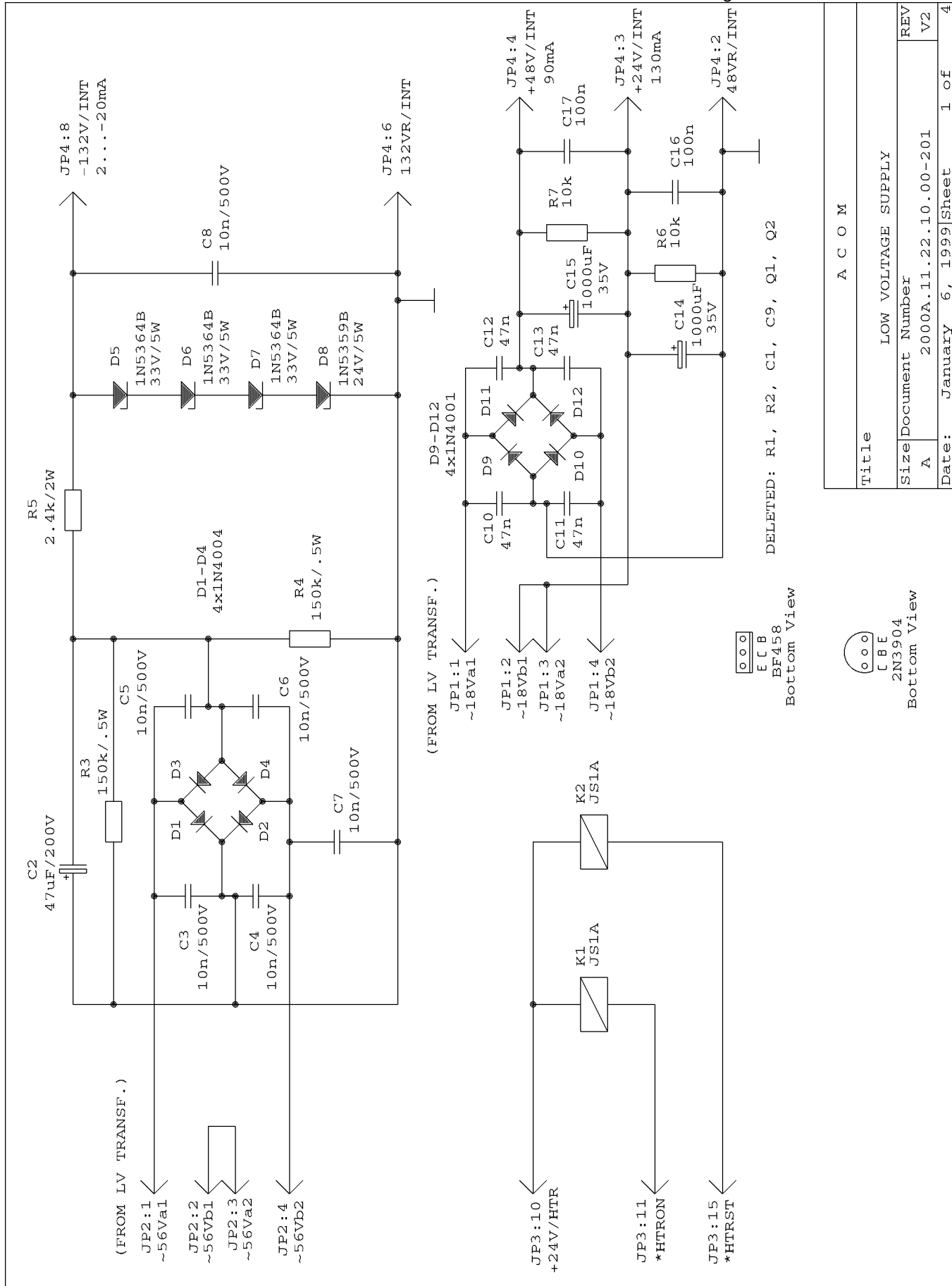
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V3

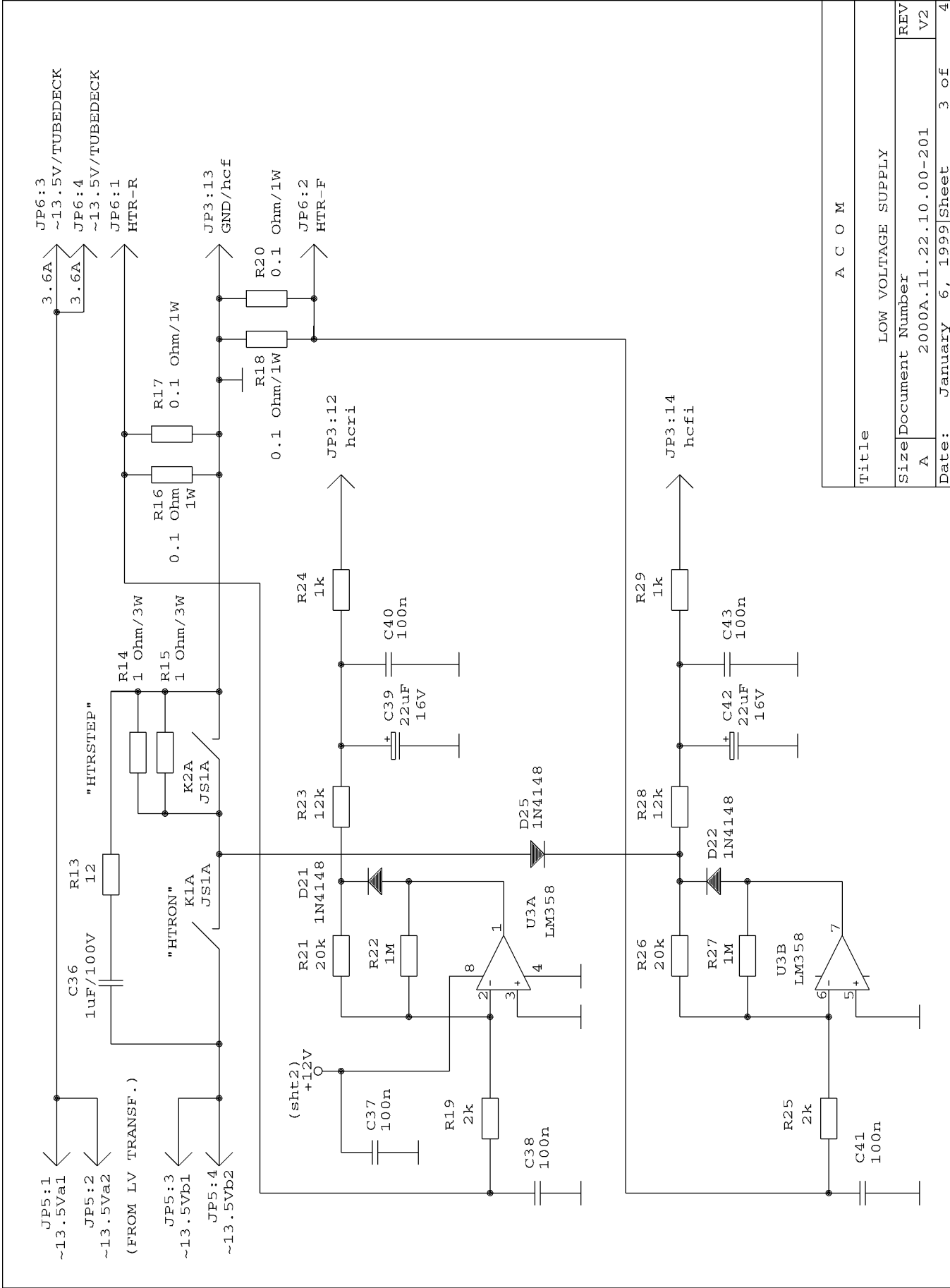


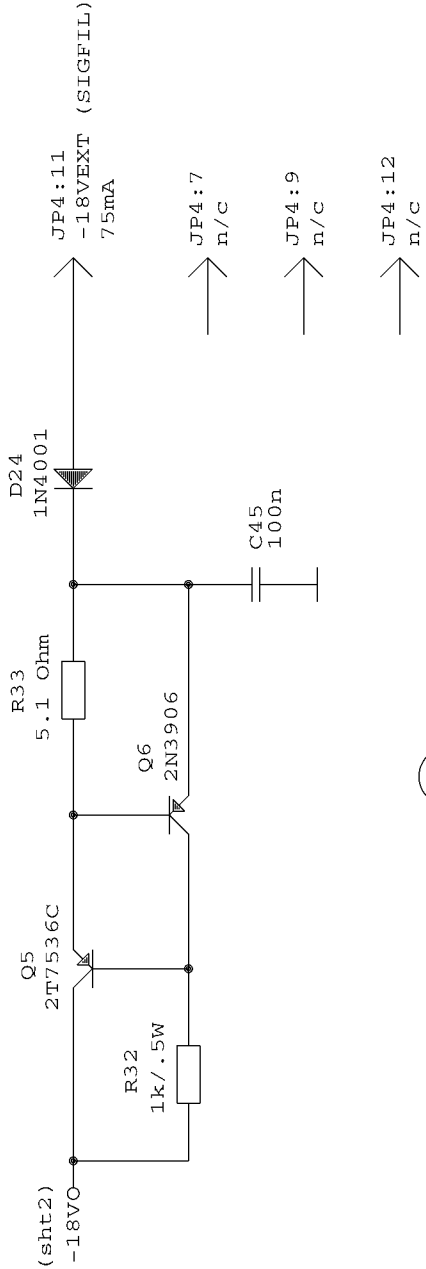
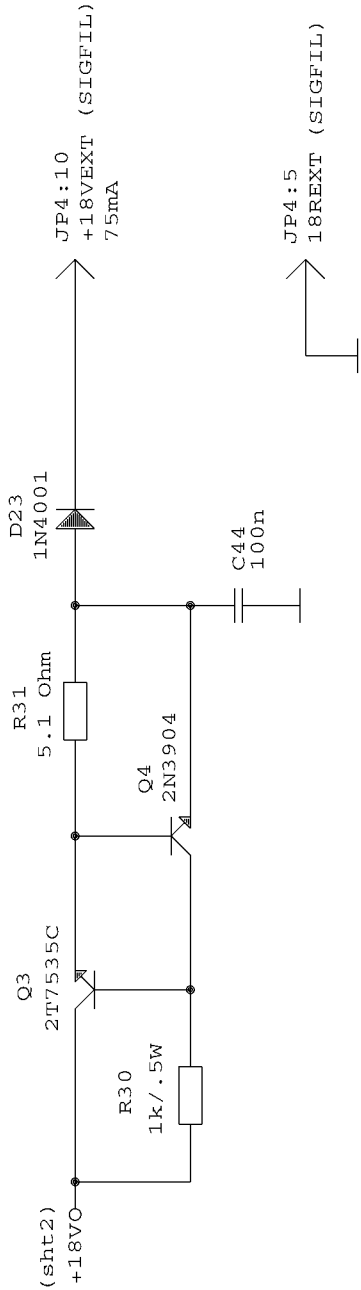
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Size	Document Number
A	2000A.11.20.20.00-201
Date:	January 20 1999 Sheet 7 of 8







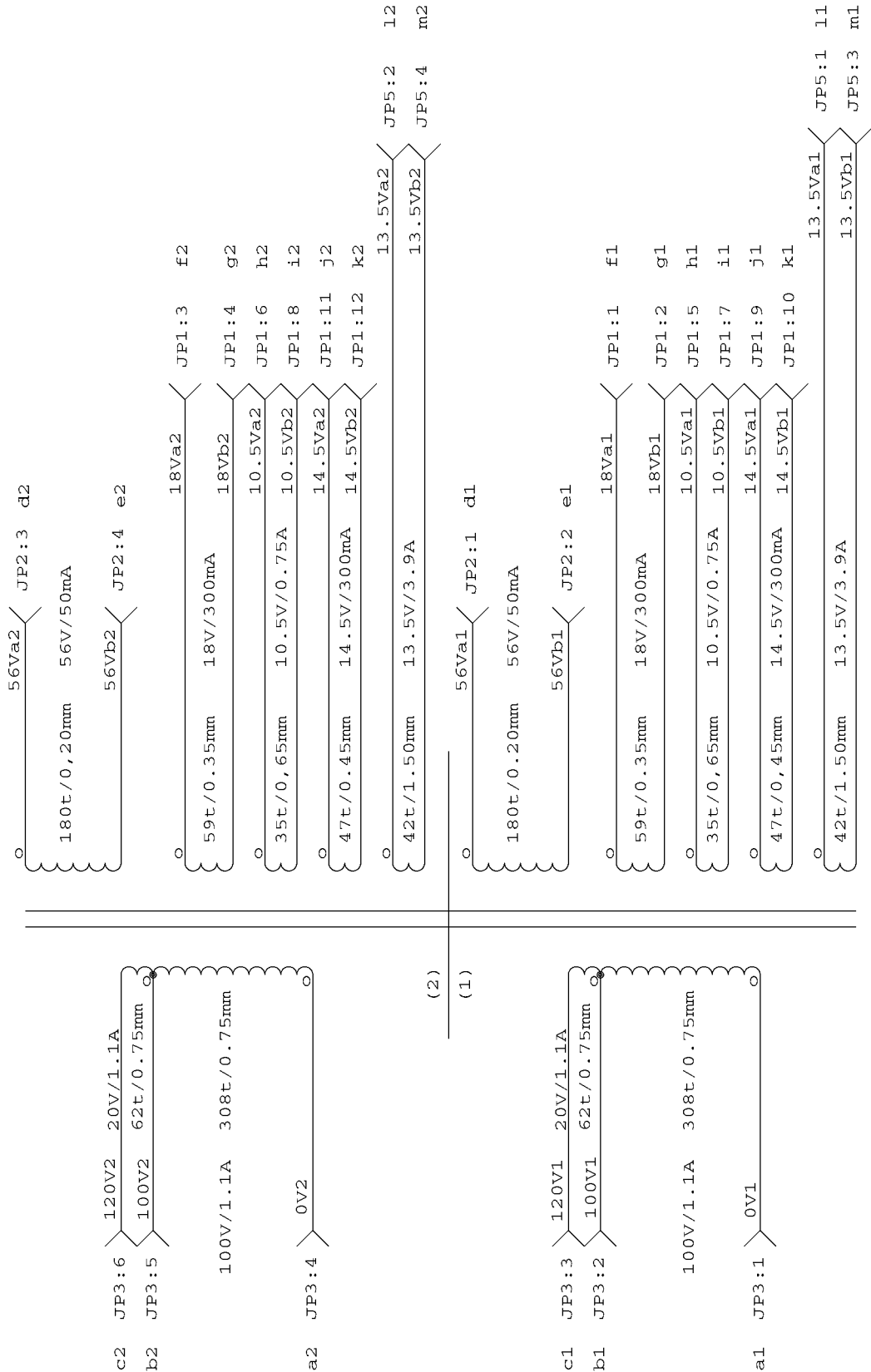




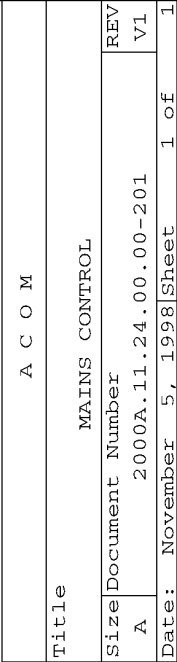
Bottom View

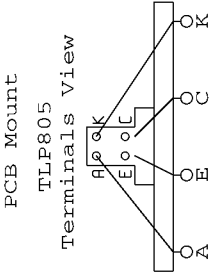
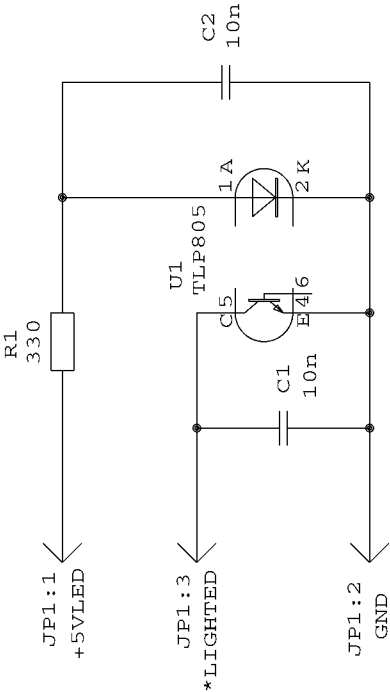
Bottom View

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Size	Document Number	REV	
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Date:	November 11, 1998	Sheet	4 of 4

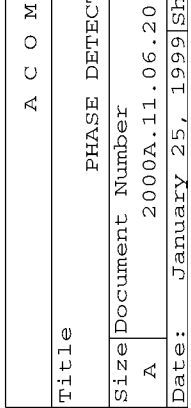


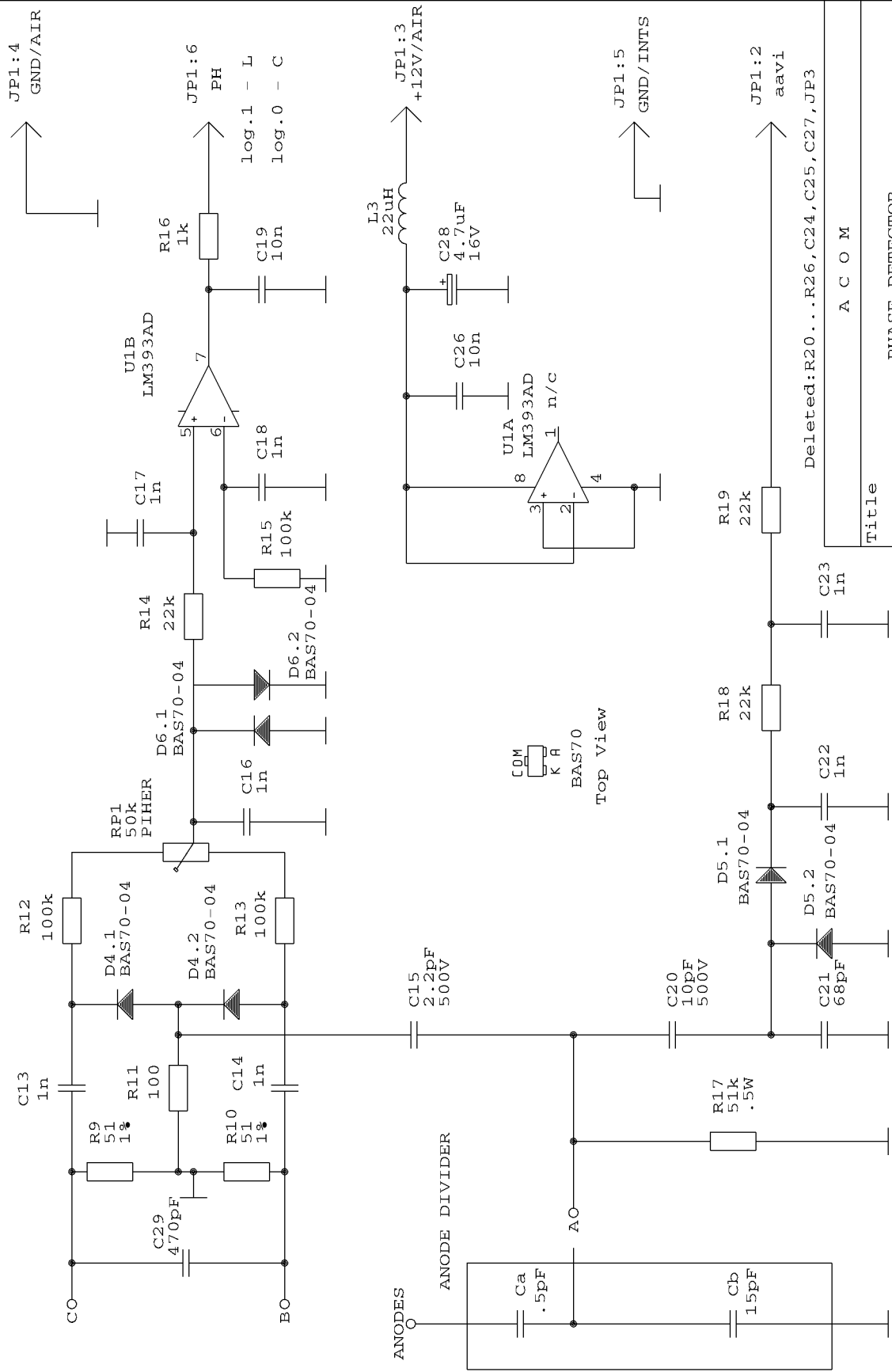
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Document	Number	REV	
A	2000A.11.22.10.00-201	V3	
Date:	November 5, 1998	Sheet	1 of 1



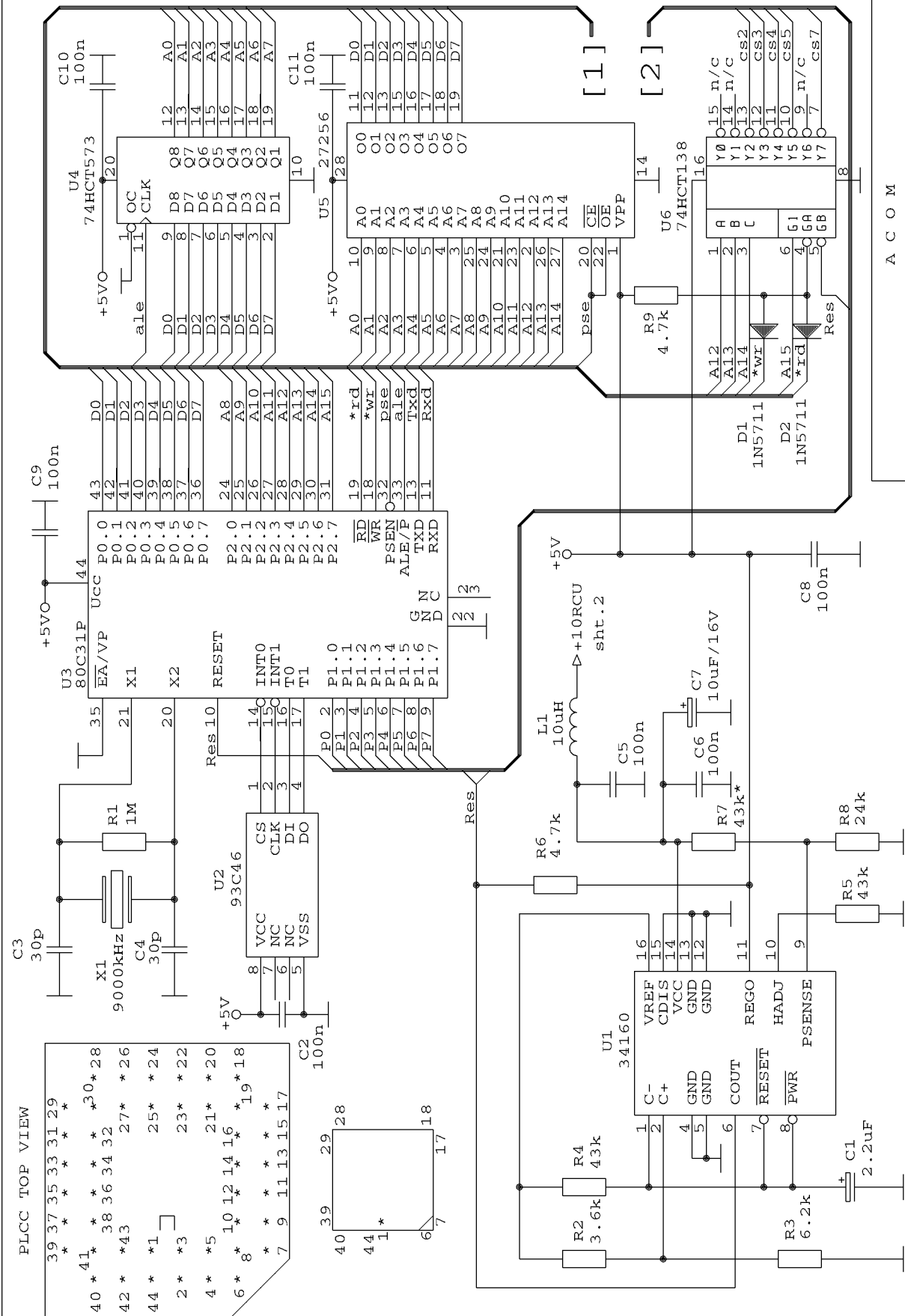


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Document Number	REV	
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Date:	July 20, 1998	Sheet 1 of 1





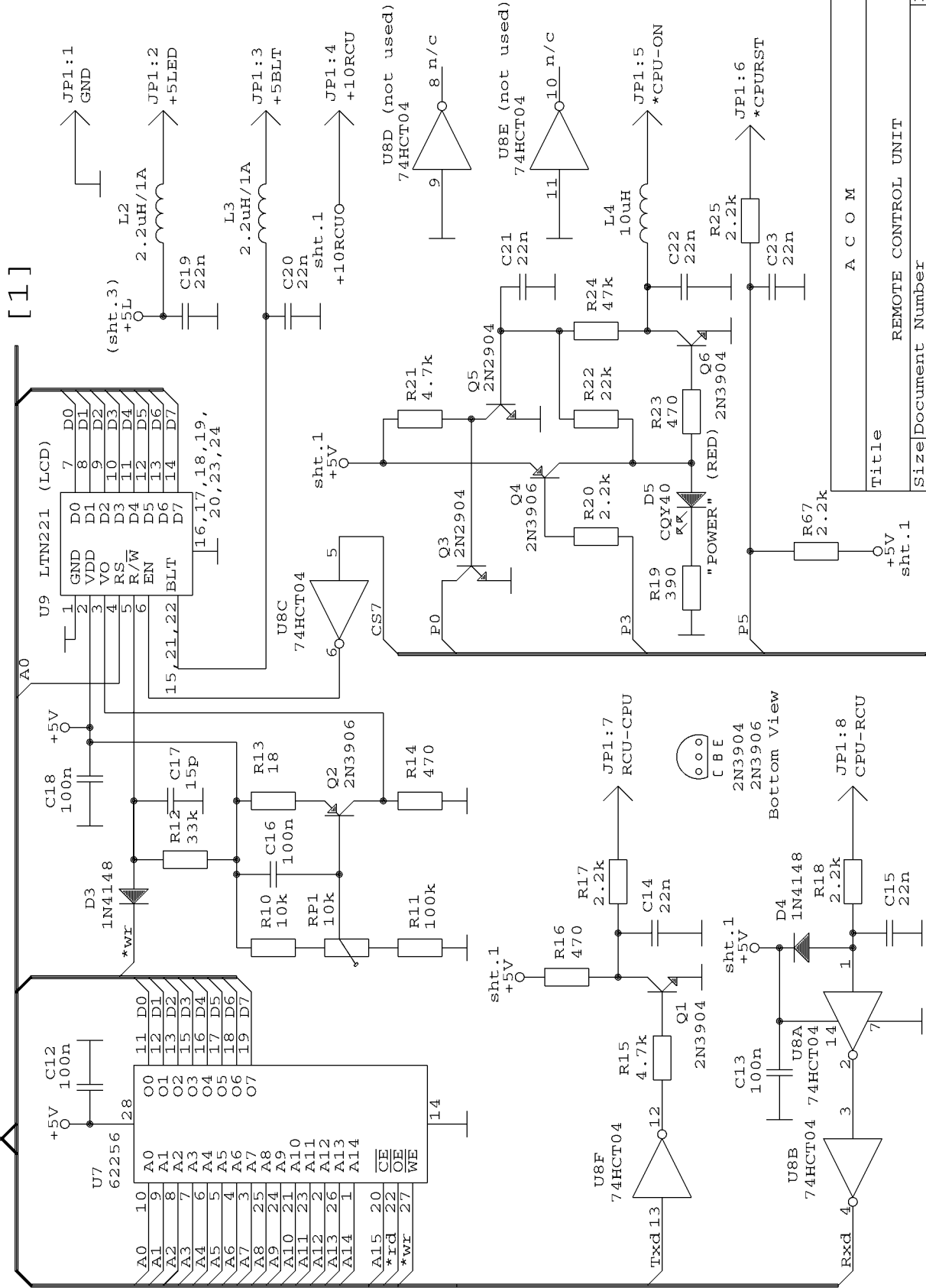
Title		A C O M	
PHASE DETECTOR			
Size	Document Number	REV	
A	2000A.11.06.20.00-201	V3	
Date:	August 6, 1998	Sheet	2 of 2



*R7: RESET @ 8.2...8.9V/up; 7,1...7.7V/down

Title			A C O M		
Size			REMOTE CONTRL UNIT		
Document Number			2000A.20.00.00.00		
REV			V3		
Date:			January 26, 1999		
Sheet			1 of 3		

(1)



[2]

Title

REMOTE CONTROL UNIT

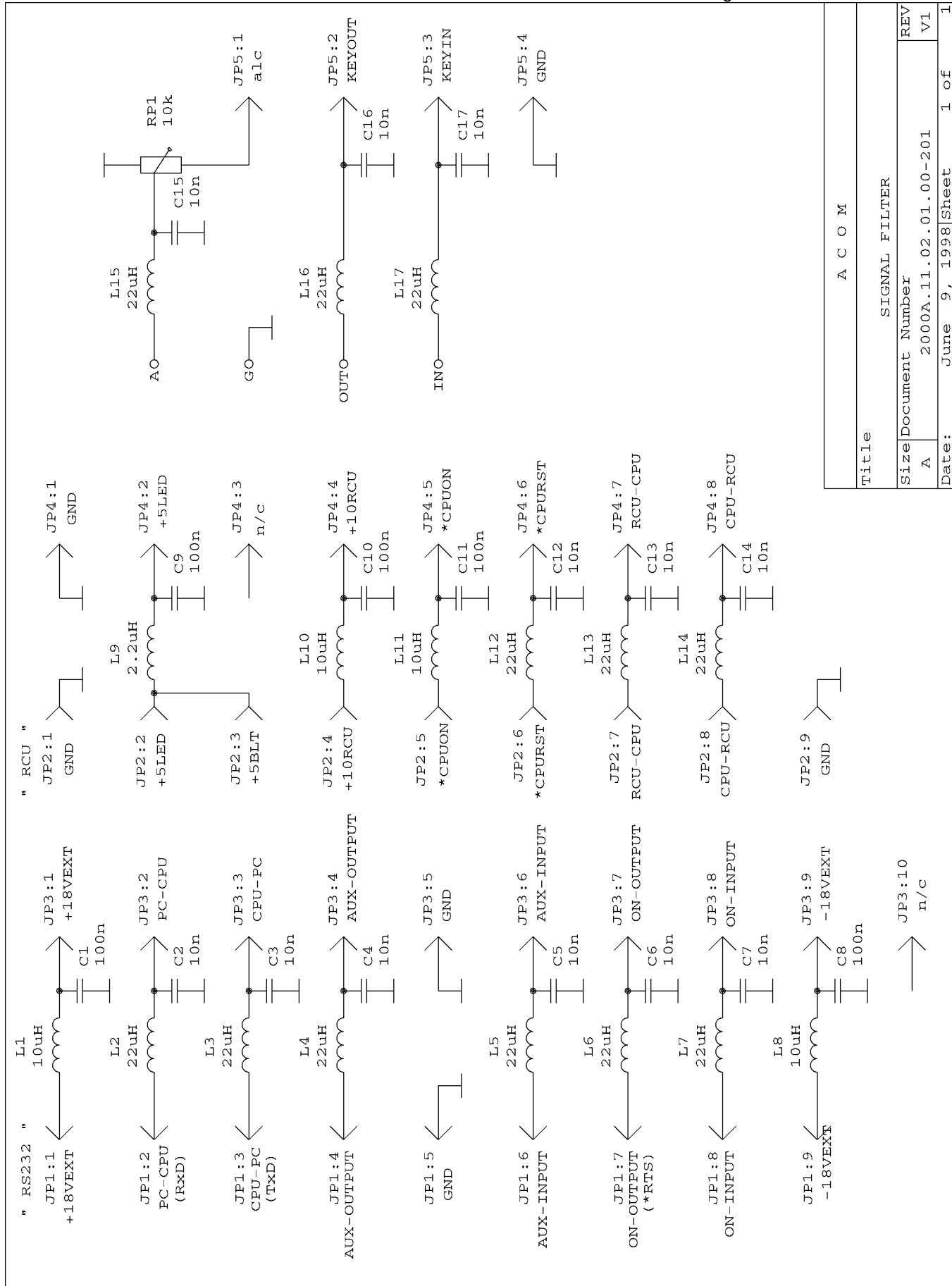
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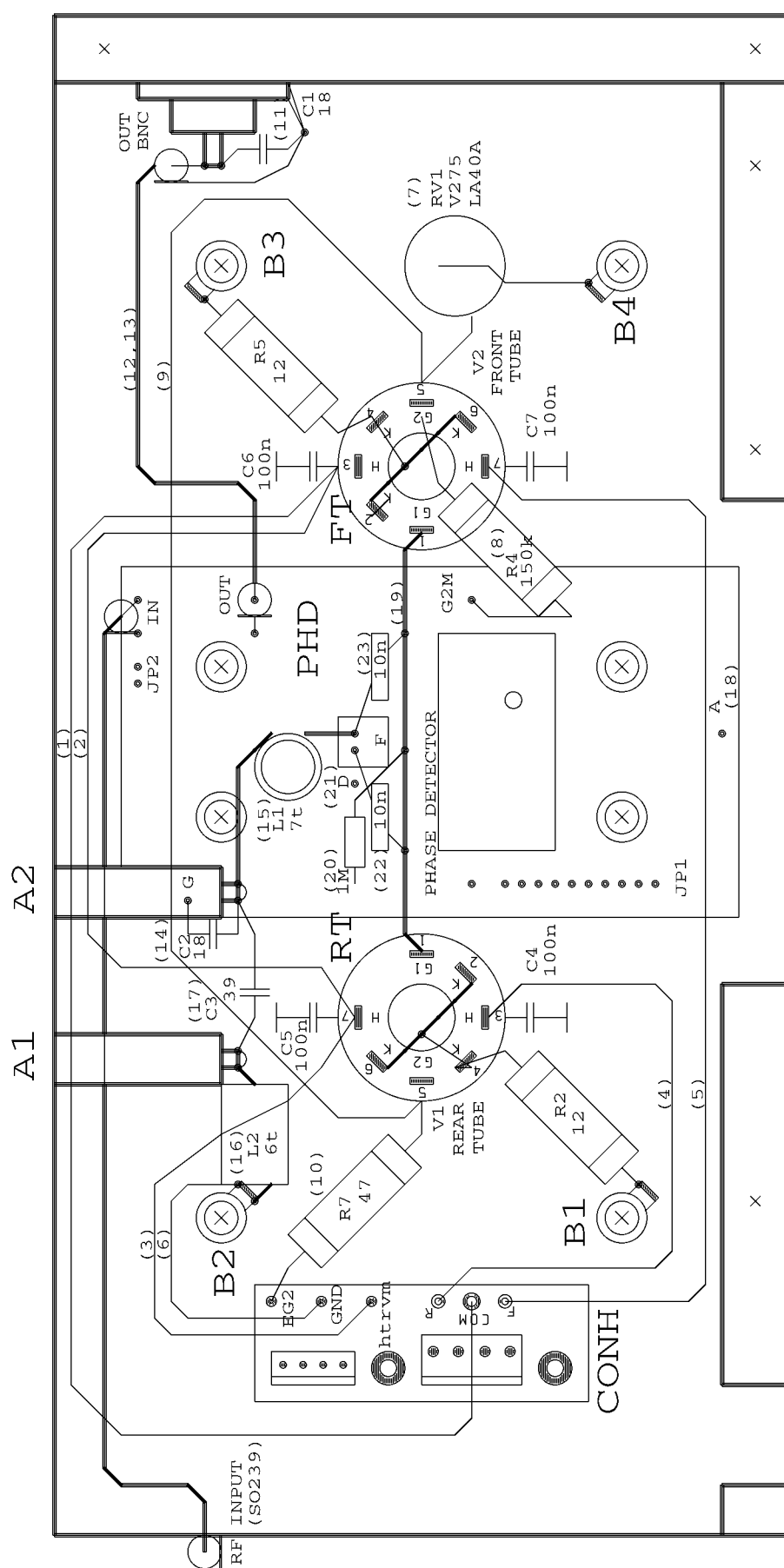
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Date: July 20, 1998 Sheet 2 of 3

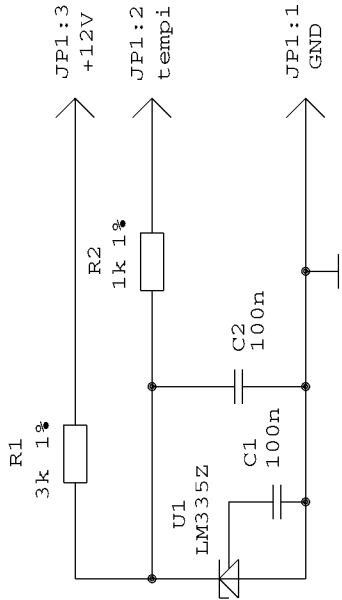
REV

V3

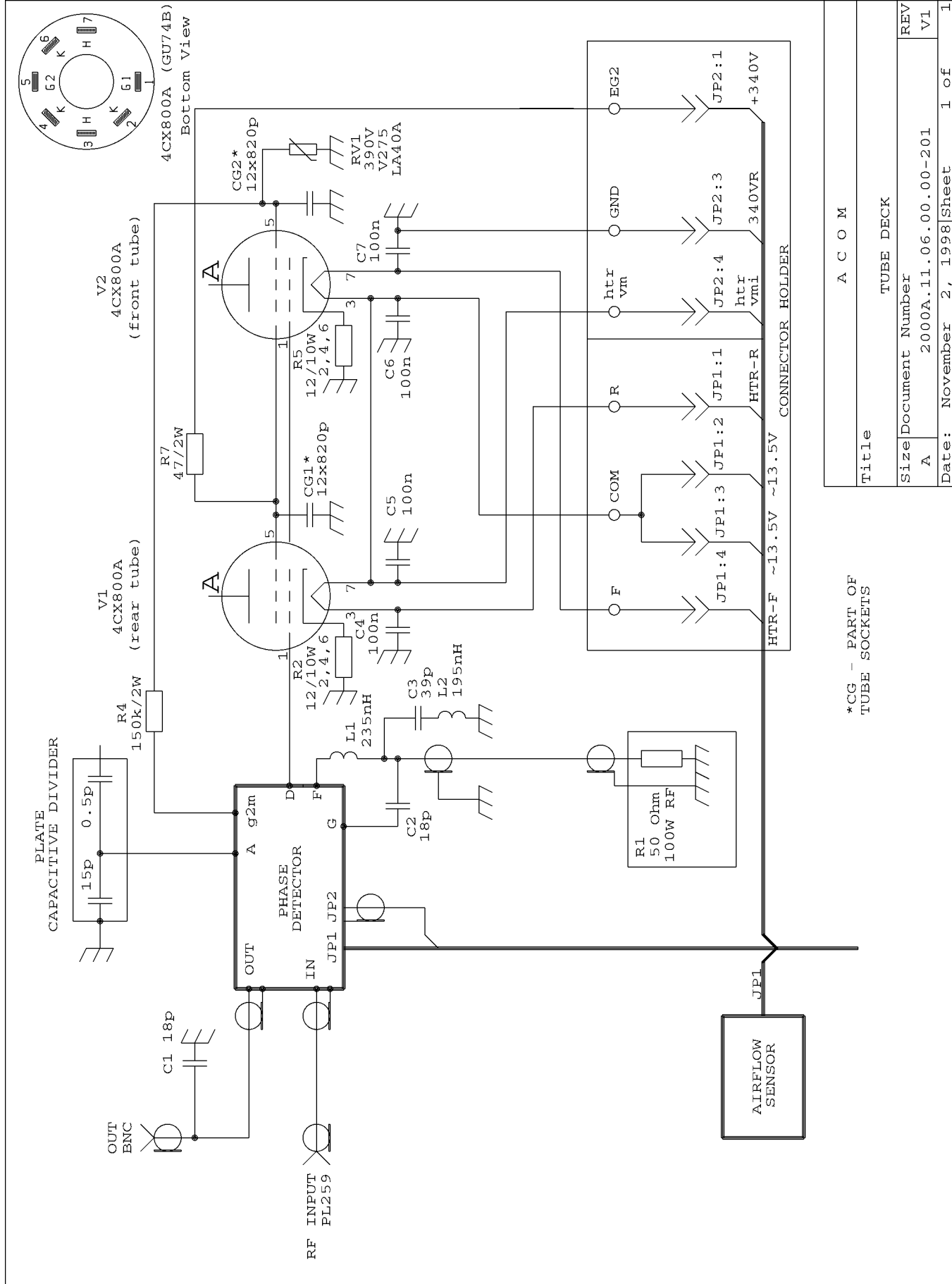




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TUBE DECK CONNECTIONS		
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Date:	November 2, 1998	Sheet 1 of 2



A C O M		
Title		
TEMPERATURE SENSOR		
Size	Document Number	REV
A	2000A.11.11.10.00-201	V2
Date:	June 9, 1998	Sheet 1 of 1



*CG - PART OF
TUBE SOCKETS

A C O M

TUBE DECK

Size Document Number

A 2000A.11.06.00.00-201

REV

V1

Title

Date: November 2, 1998

Sheet

1 of 1

