

LED-Pinball-Display 10009/11/13

Board Part Number / Platinenbauteilenummer 2003006 / 2003007

Schematics - Schaltpläne

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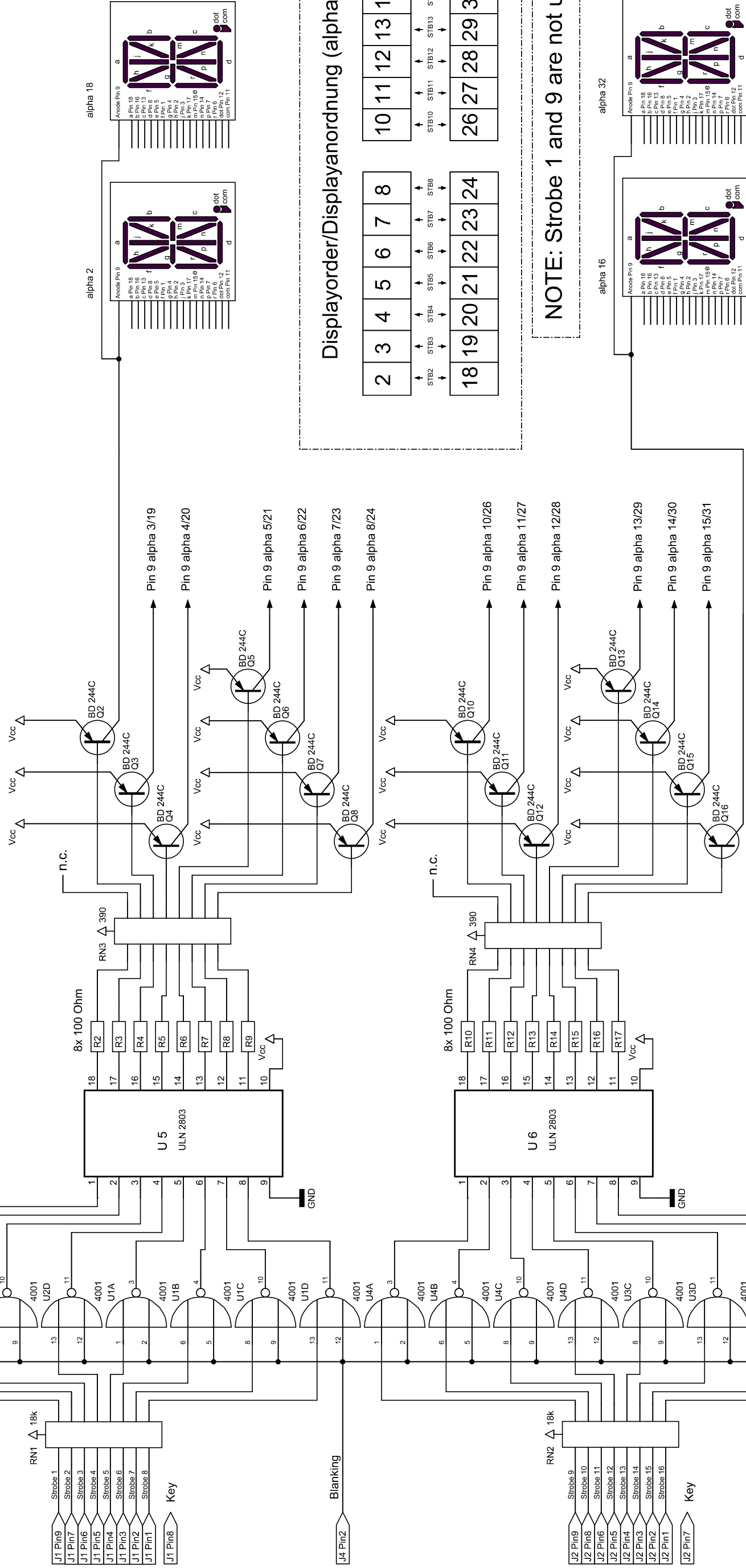
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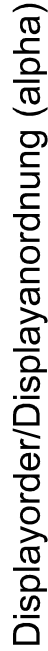
!!!!!!! CAUTION / VORSICHT !!!!!!!

**Ensure that the HIGH VOLTAGE FUSES are removed
from the Power Supply Board !**

**Stellen Sie sicher, dass die HOCHSPANNUNGSSICHERUNGEN
von der Spannungsversorgungsplatine entfernt sind !**



NOTE: Strobe 1 and 9 are not used !



The diagram illustrates a 16-bit bus system composed of two 8-bit components. The top component has inputs 2, 3, 4, 5, 6, 7, and 8, and outputs 10, 11, 12, 13, 14, 15, and 16. The bottom component has inputs 18, 19, 20, 21, 22, 23, and 24, and outputs 26, 27, 28, 29, 30, 31, and 32. Each component contains a series of internal blocks labeled STB2 through STB8 (top) and STB10 through STB16 (bottom). Arrows indicate the direction of data flow between these blocks and the external bus lines.

Notes: used in 10009 and 10011

Strobes

PN: 2003006

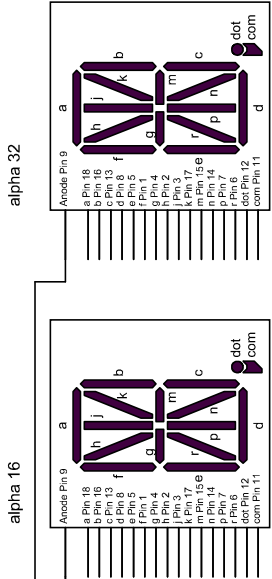
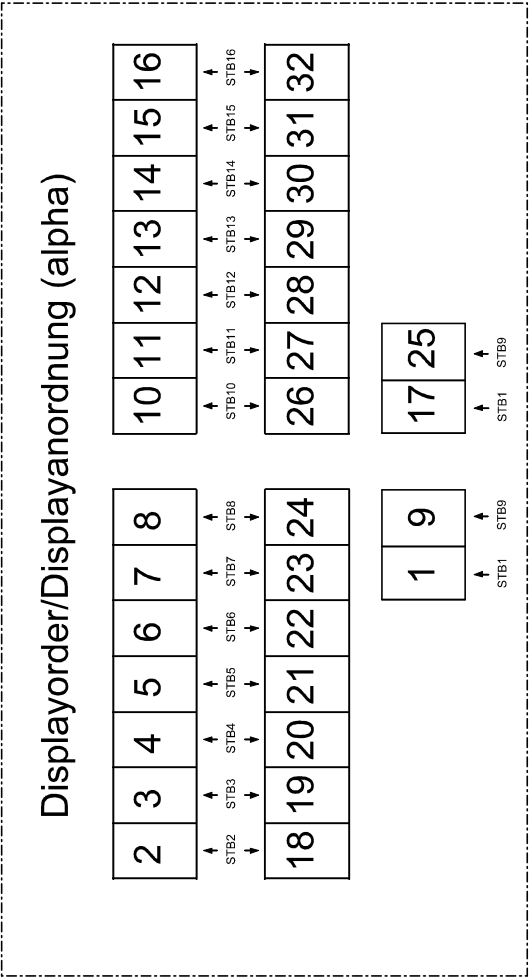
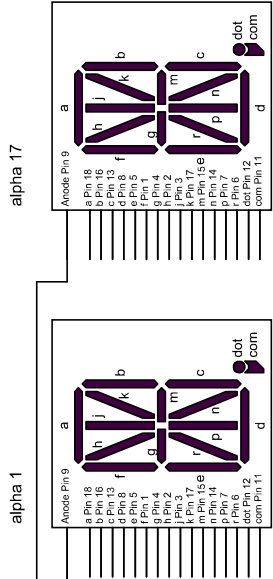
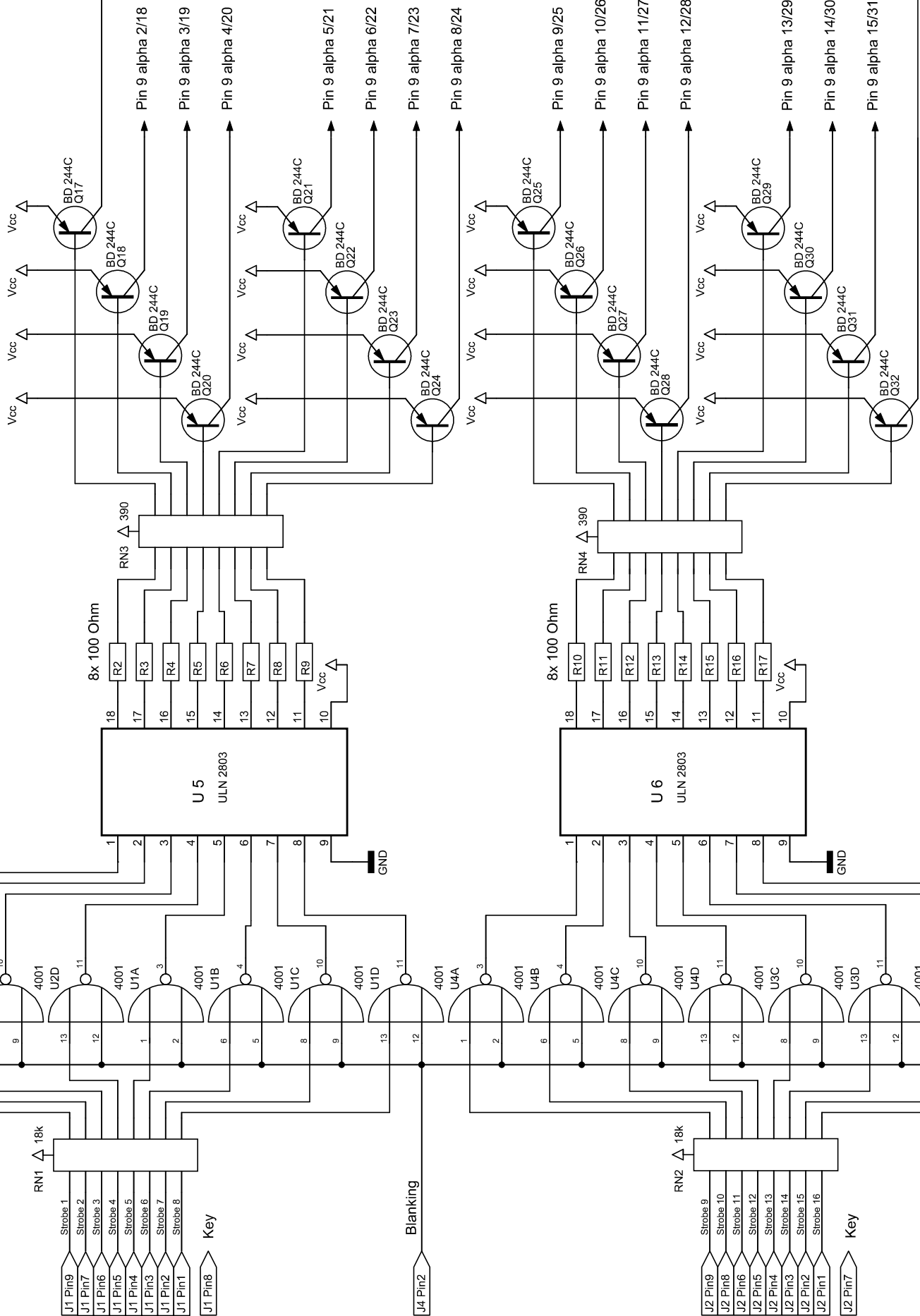
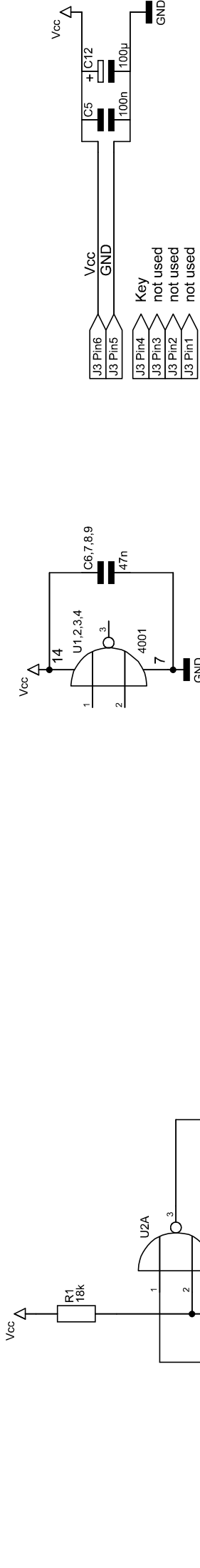
Name: A.Förster

Rev: 02

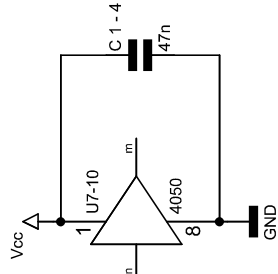
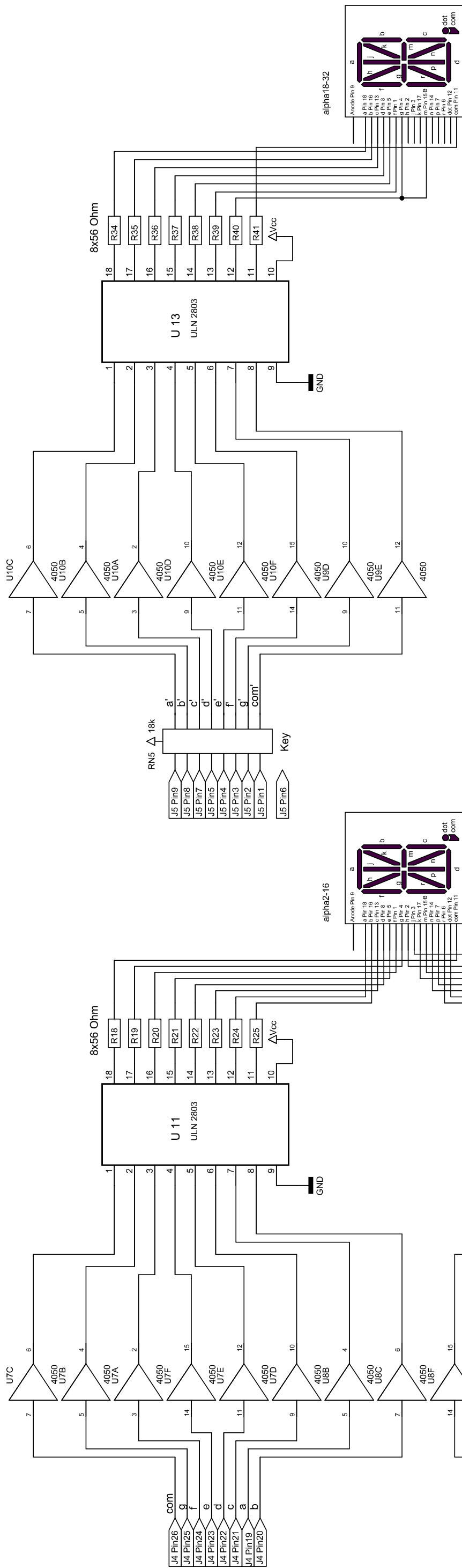
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Boardname: 10000 and 1001

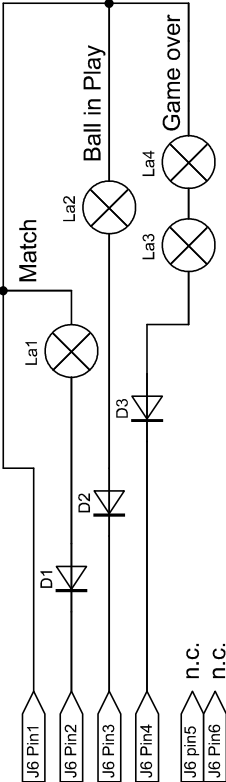
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Notes: used in WILLIAMS Millionare only (10013)		
Date: 07/14/03	Strobes	
Name: A.Förster	Rev: 02	
Copyright 2003 by A.Förster	Boardname: 10013	



Notes:	PinLED Digits	PN: 2003006 / 7
Date: 07/16/03		Rev: 02
Name: A.Förster		Boardname: 10009 and 10011
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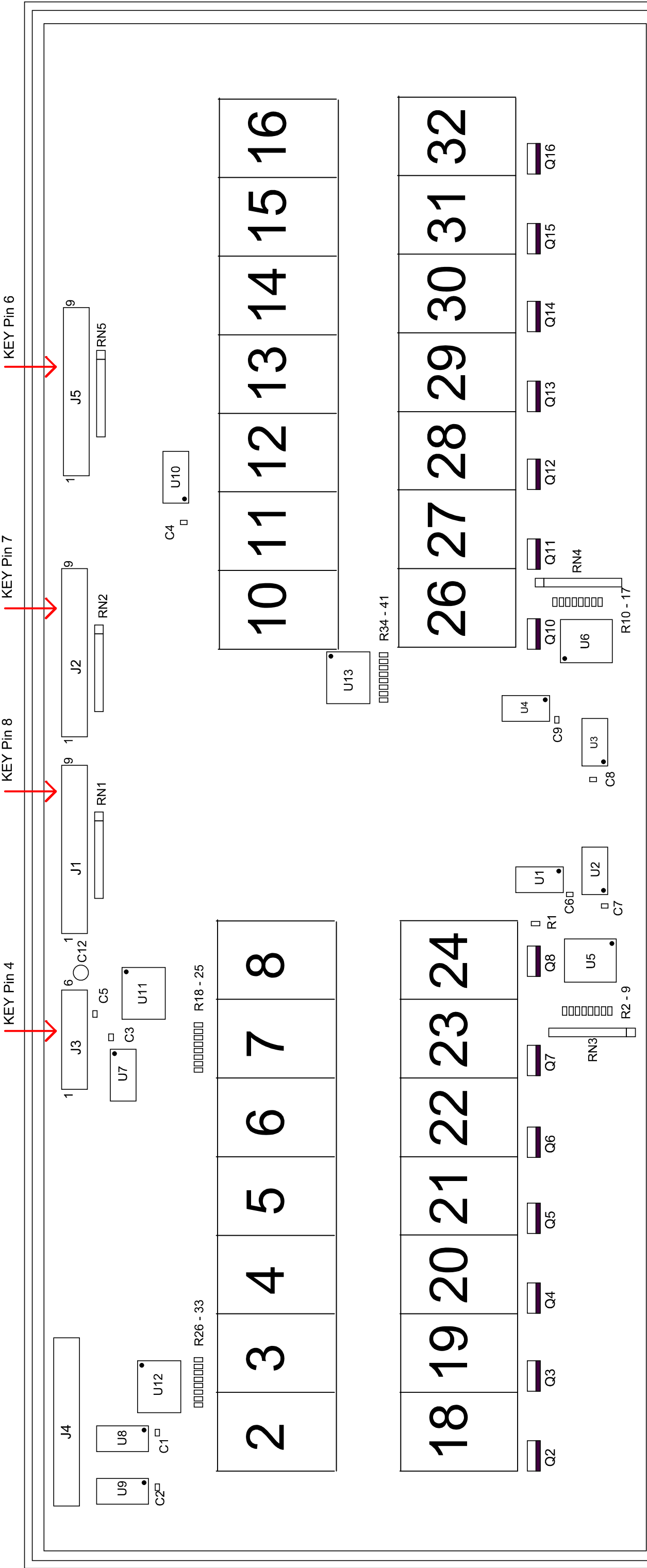
Digits

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PinLED

Boardname:

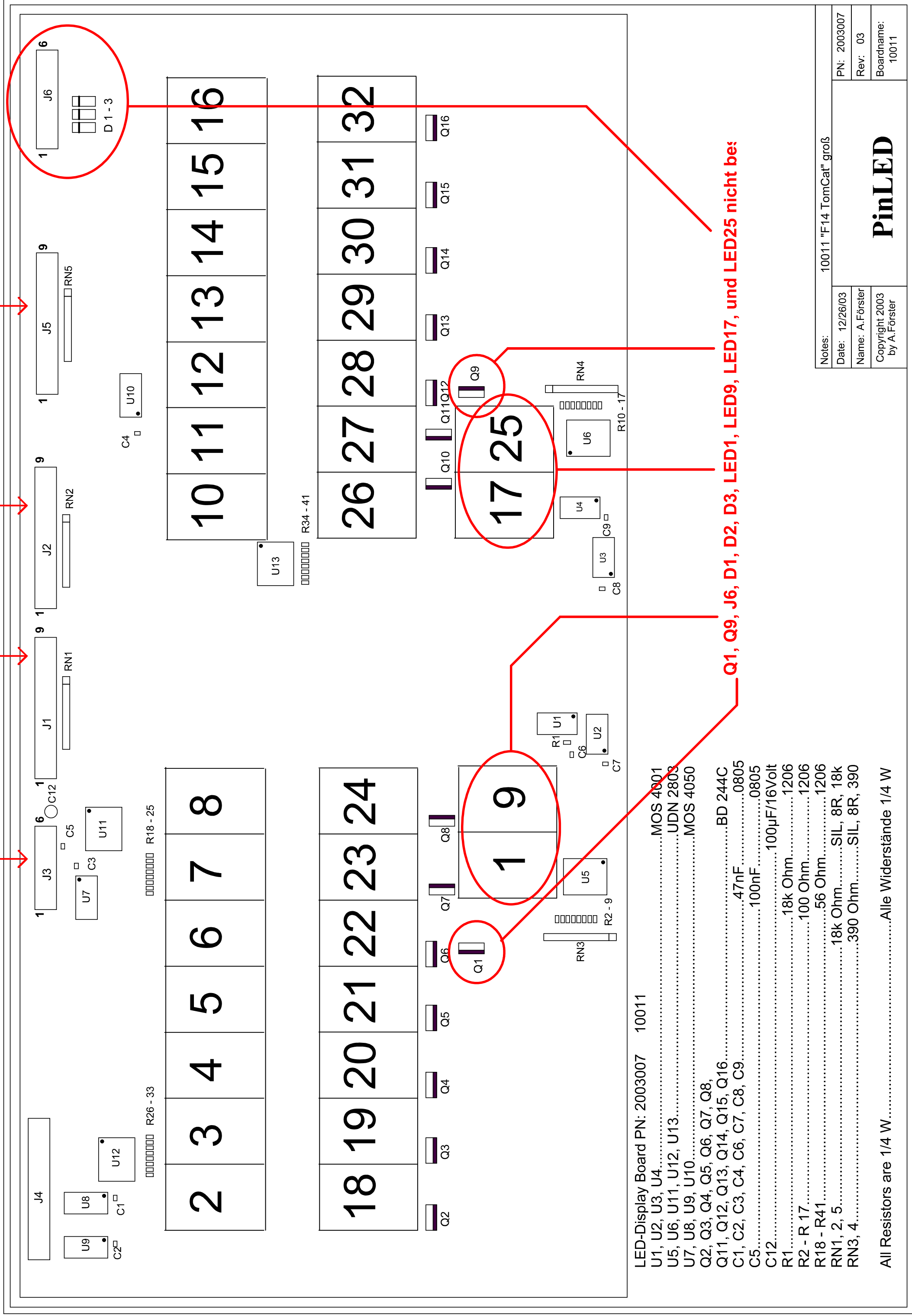
10013

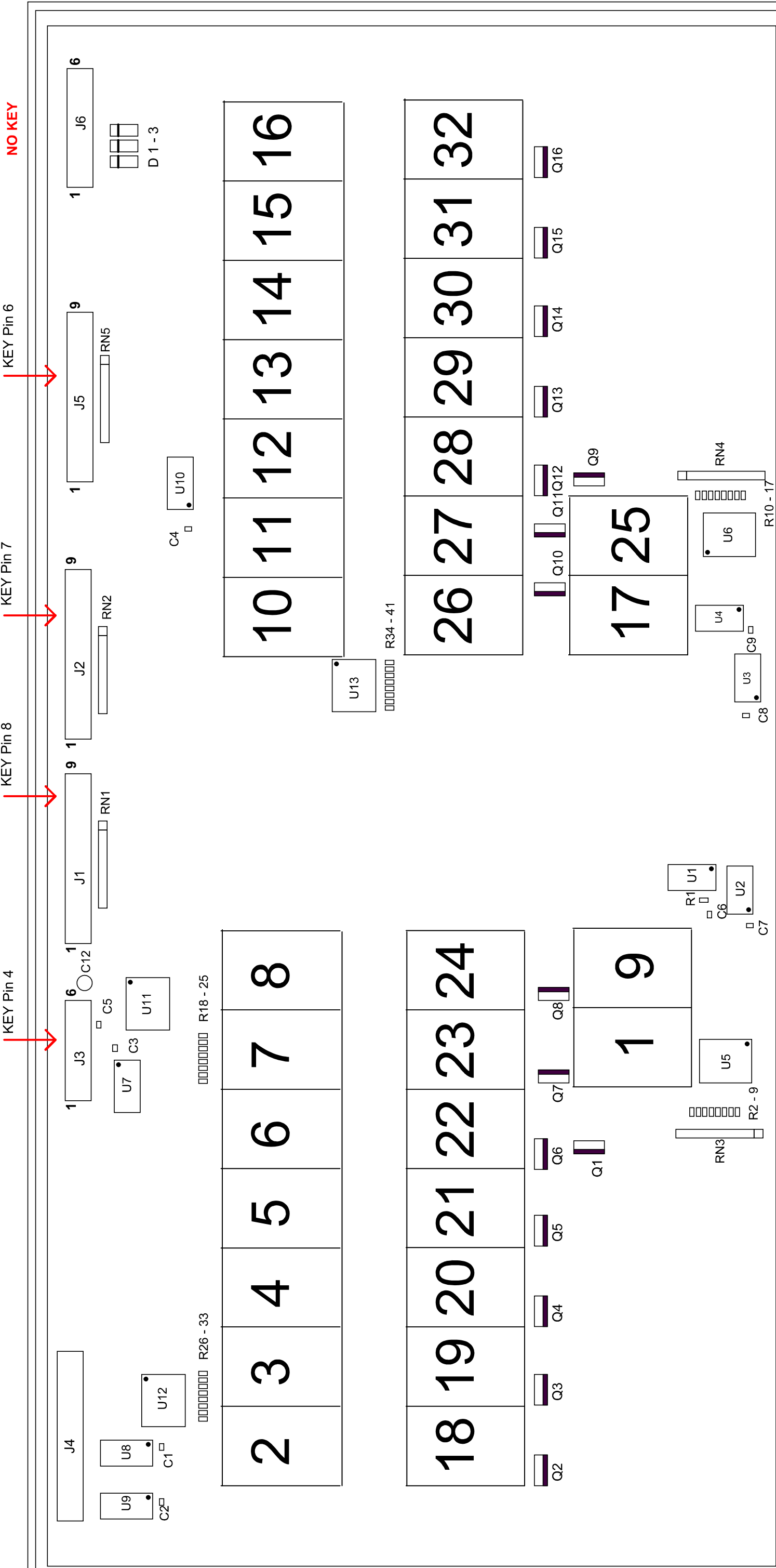


LED-Display Board PN: 2003006	10009
U1, U2, U3, U4.....	MOS 4001
U5, U6, U11, U12, U13.....	UDN 2803
U7, U8, U9, U10.....	MOS 4050
Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q10	
Q11, Q12, Q13, Q14, Q15, Q16.....	BD 244C
C1, C2, C3, C4, C6, C7, C8, C9.....	47nF.....0805
C5.....	100nF.....0805
C12.....	100µF/16Volt
R1.....	18k Ohm.....1206
R2 - R 17.....	100 Ohm.....1206
R18 - R41.....	56 Ohm.....1206
RN1, 2, 5.....	18k Ohm.....SIL, 8R, 18k
RN3, 4.....	390 Ohm.....SIL, 8R, 390

All Resistors are 1/4 W.....Alle Widerstände 1/4 W

Notes: 10009 "F14 TomCat"		
Date: 12/08/03	PinLED	
Name: A.Förster		
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PN: 2003006		Rev: 02
Boardname: 10009		





LED-Display Board PN: 2003007	10013
U1, U2, U3, U4.....	MOS 4001
U5, U6, U11, U12, U13.....	UDN 2803
U7, U8, U9, U10.....	MOS 4050
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	
Q10, Q11, Q12, Q13, Q14, Q15, Q16.....	BD 244C
C1, C2, C3, C4, C6, C7, C8, C9.....	47nF
C5.....	100nF
C12.....	100µF/16Volt
R1.....	18k Ohm
R2 - R 17.....	100 Ohm
R18 - R41.....	56 Ohm
RN1, 2, 5.....	18k Ohm
RN3, 4.....	390 Ohm
D1 -3.....	1N4001
All Resistors are 1/4 W.....	
Alle Widerstände 1/4 W	

Notes:		10013 "Millionare"	
Date: 04/16/03	PinLED	PN: 2003007	
Name: A.Förster		Rev: 02	
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