

LED-Pinball-Display 10017

Board Part Number / Platinenbauteilenummer 2003004 / 2003005

Schematics - Schaltpläne

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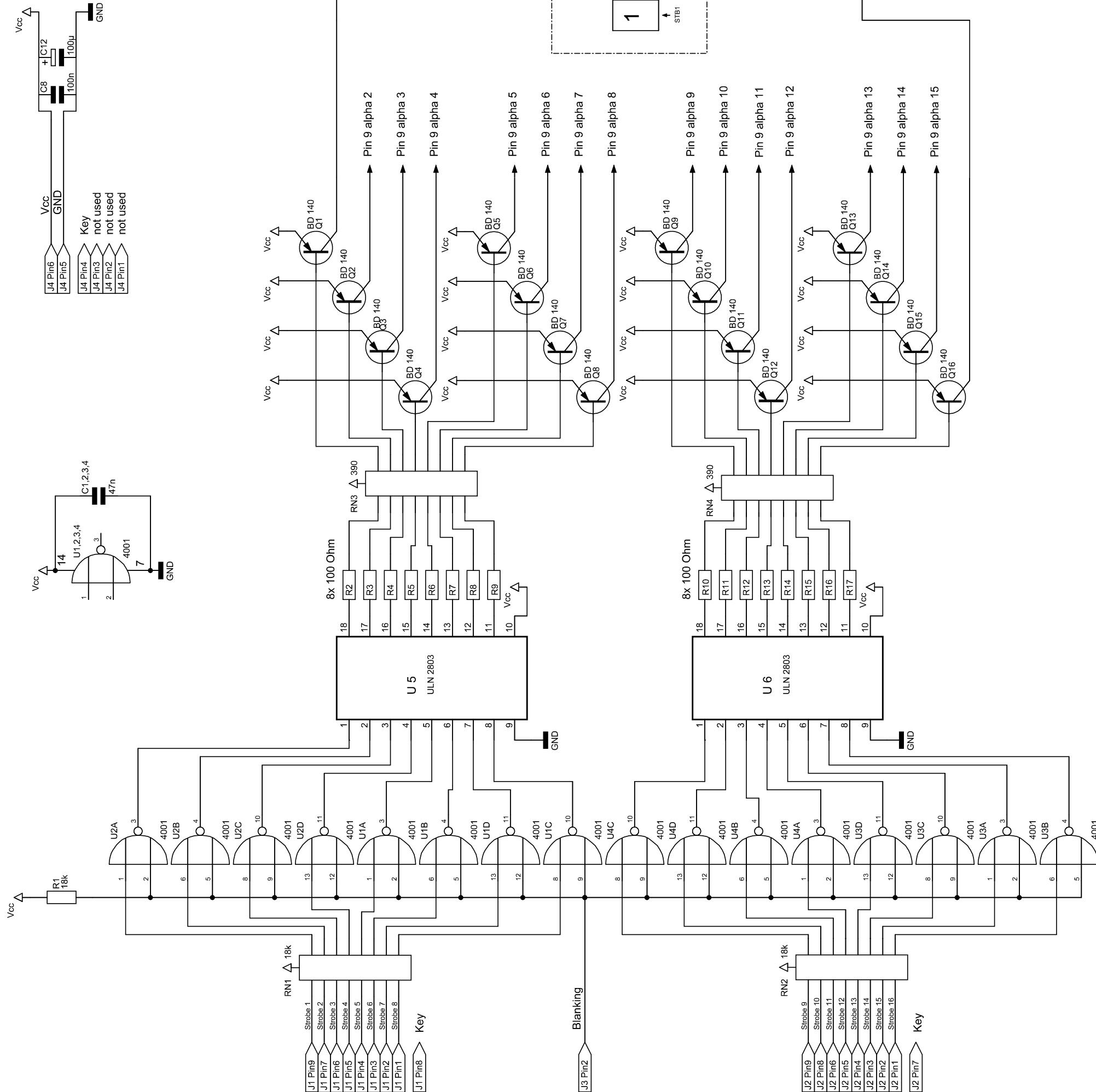
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!!!!!! CAUTION / VORSICHT !!!!!!!

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

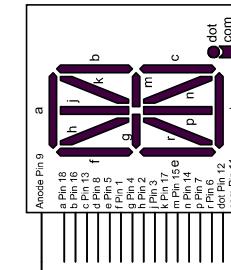
**Stellen Sie sicher, dass die HOCHSPANNUNGSSICHERUNGEN
von der Spannungsversorgungsplatine entfernt sind !**



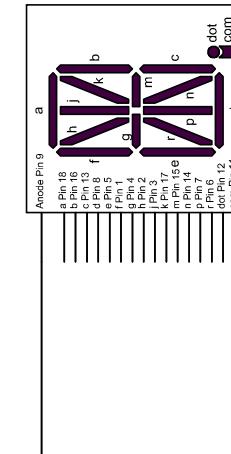
Displayorder/Displayanordnung (alpha)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| STB1 | STB2 | STB3 | STB4 | STB5 | STB6 | STB7 | STB8 | STB9 | STB10 | STB11 | STB12 | STB13 | STB14 | STB15 | STB16 |

Pin 9 alpha 5
Pin 9 alpha 6
Pin 9 alpha 7
Pin 9 alpha 8
Pin 9 alpha 9
Pin 9 alpha 10
Pin 9 alpha 11
Pin 9 alpha 12
Pin 9 alpha 13
Pin 9 alpha 14
Pin 9 alpha 15



alpha 1



alpha 16

Notes: used in 10017 left display only!

Date: 07/13/03

Name: A.Förster

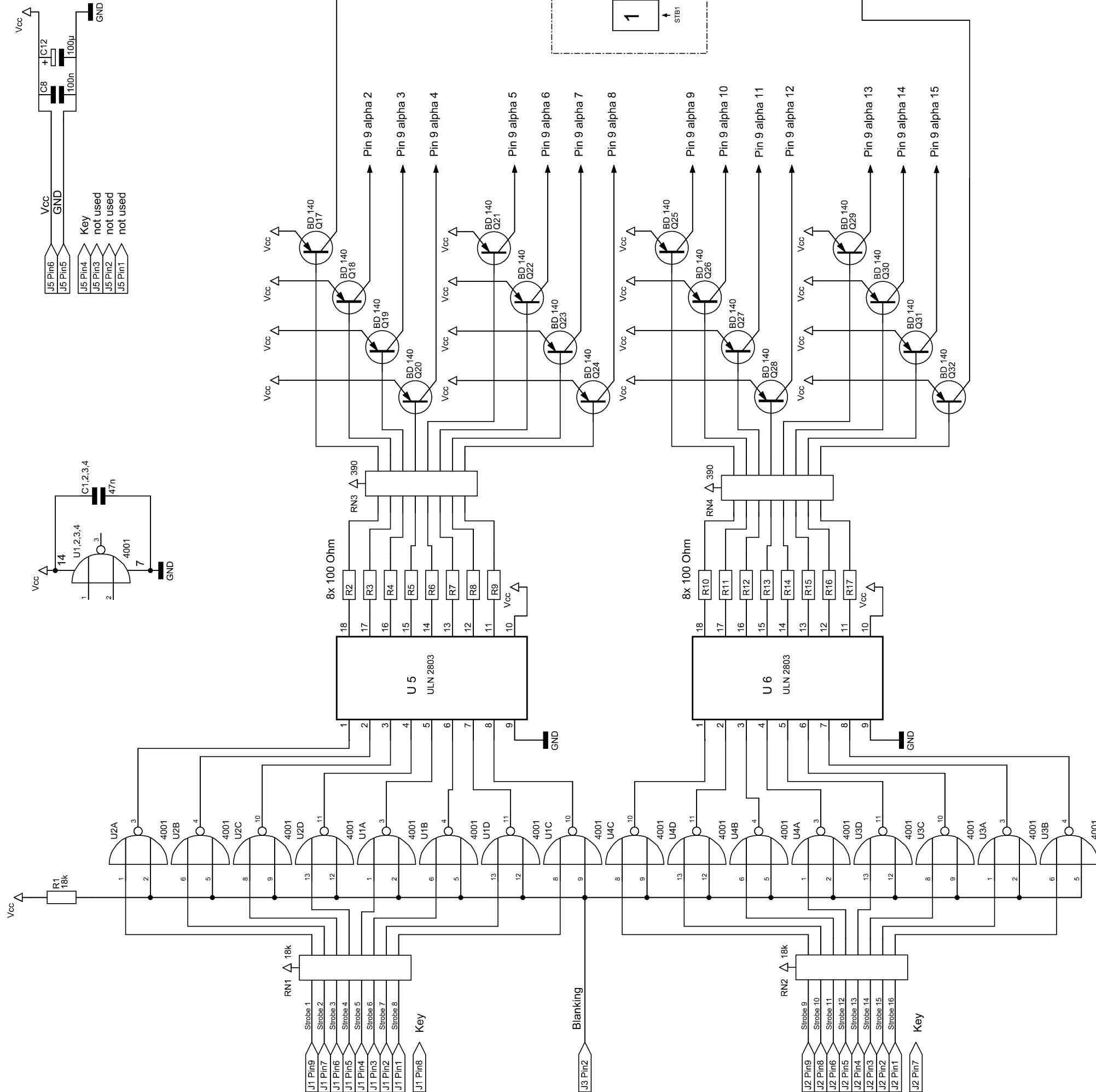
Copyright 2003
by A.Förster

PN: 2003004

Rev: 02

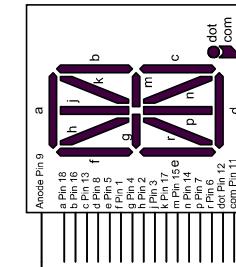
Boardname:
10016 - 10017

PinLED

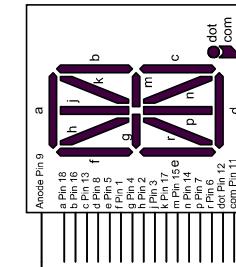
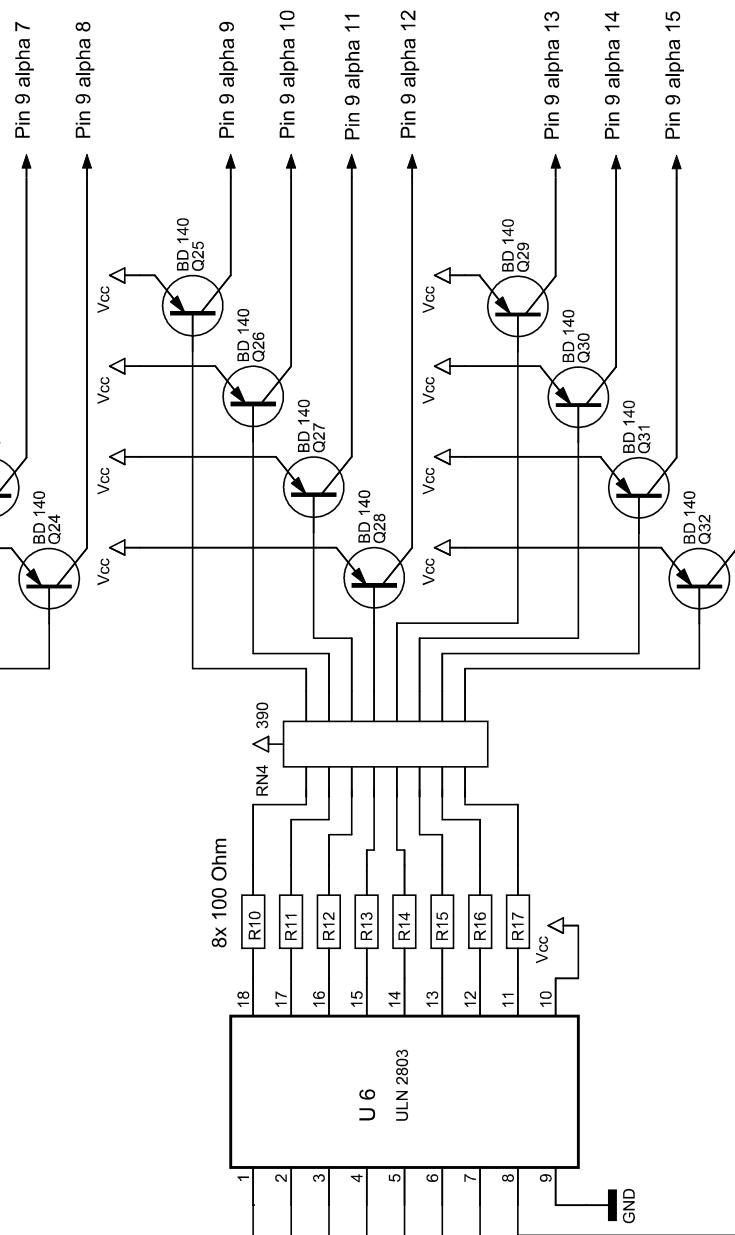


Displayorder/Displayanordnung (alpha)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| STB1 | STB2 | STB3 | STB4 | STB5 | STB6 | STB7 | STB8 | STB9 | STB10 | STB11 | STB12 | STB13 | STB14 | STB15 | STB16 |



alpha 2

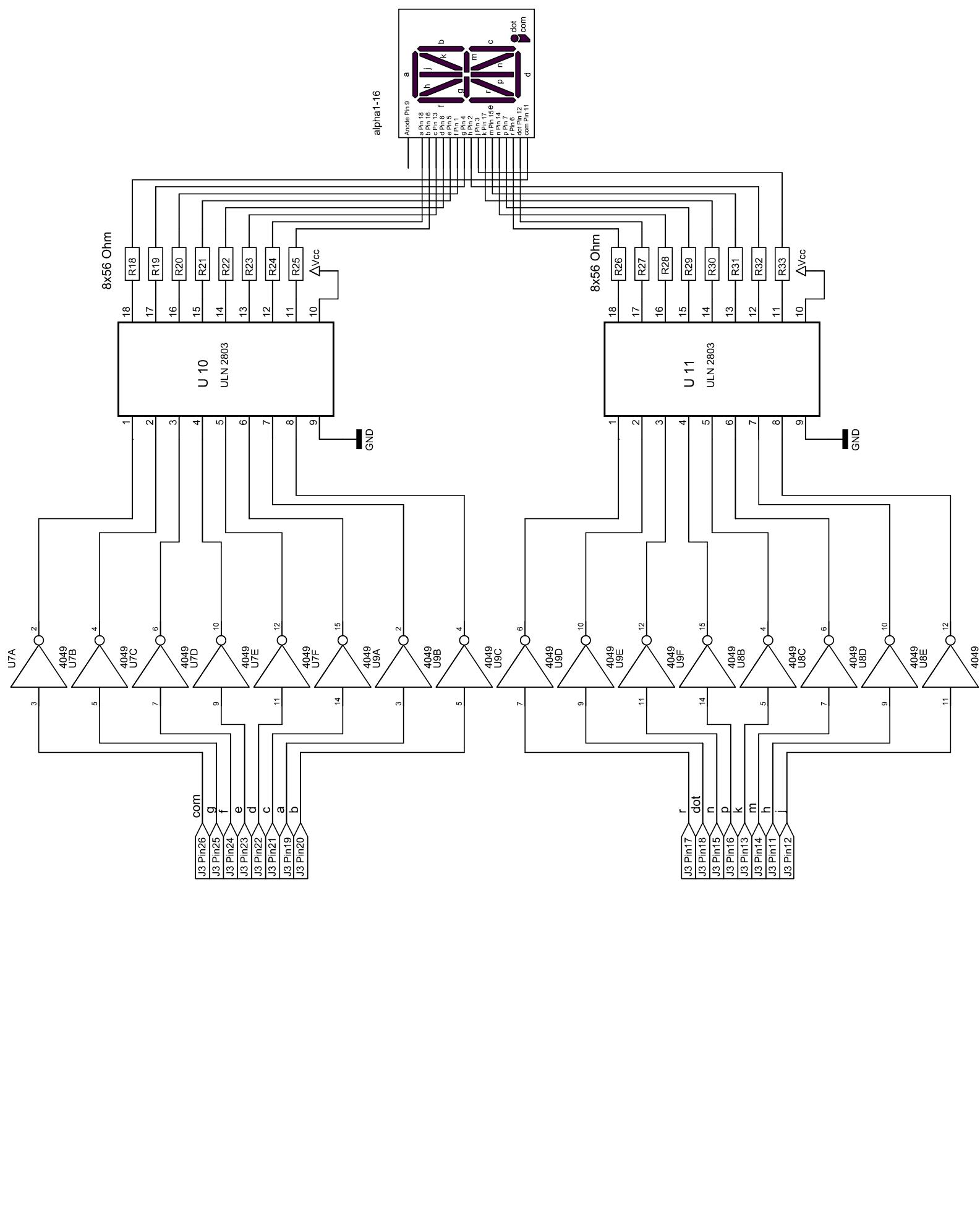


alpha 16

Notes: used in 10017 right display only!
Date: 07/13/03
Name: A.Förster
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PN: 2003005
Rev: 02
Boardname:
10018 - 10019

PinLED

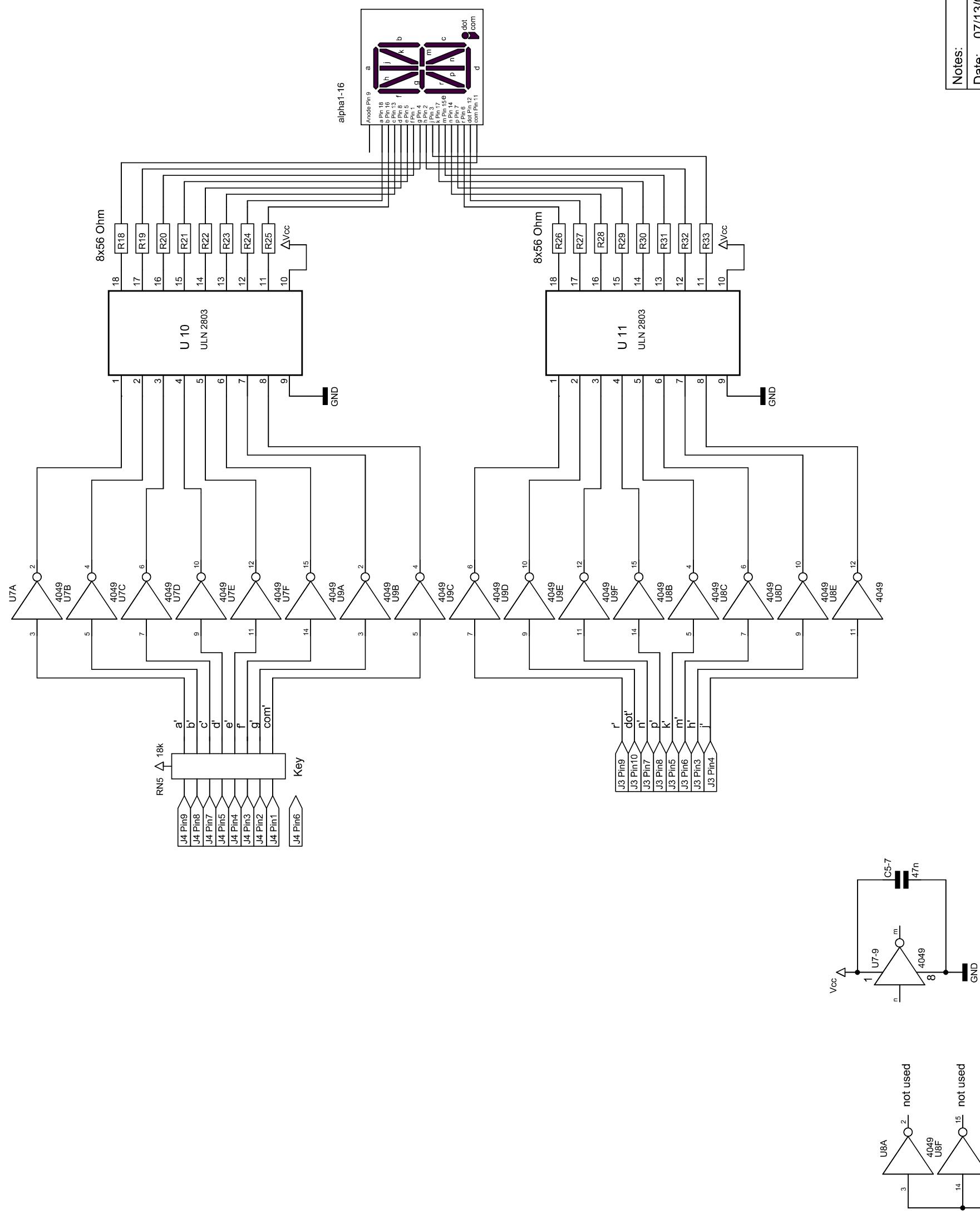


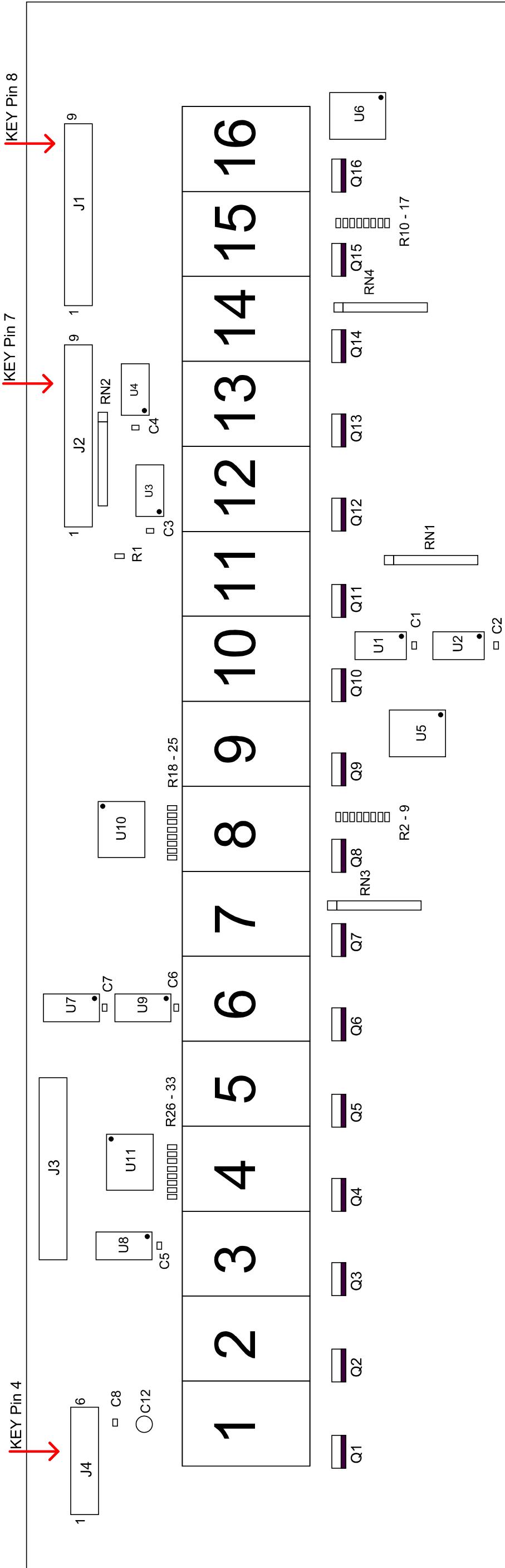
This sheet is for the left display only!

Notes: _____
Date: 07/13
Name: A.Förster
Copyright 2013 by A.Förster

| | | |
|-------------|---------|--------------------------|
| PN: 2003004 | Rev: 02 | Boardname: 10016 - 10017 |
|-------------|---------|--------------------------|

Notes: _____
Date: 0_____
Name: A_____
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by A.F.





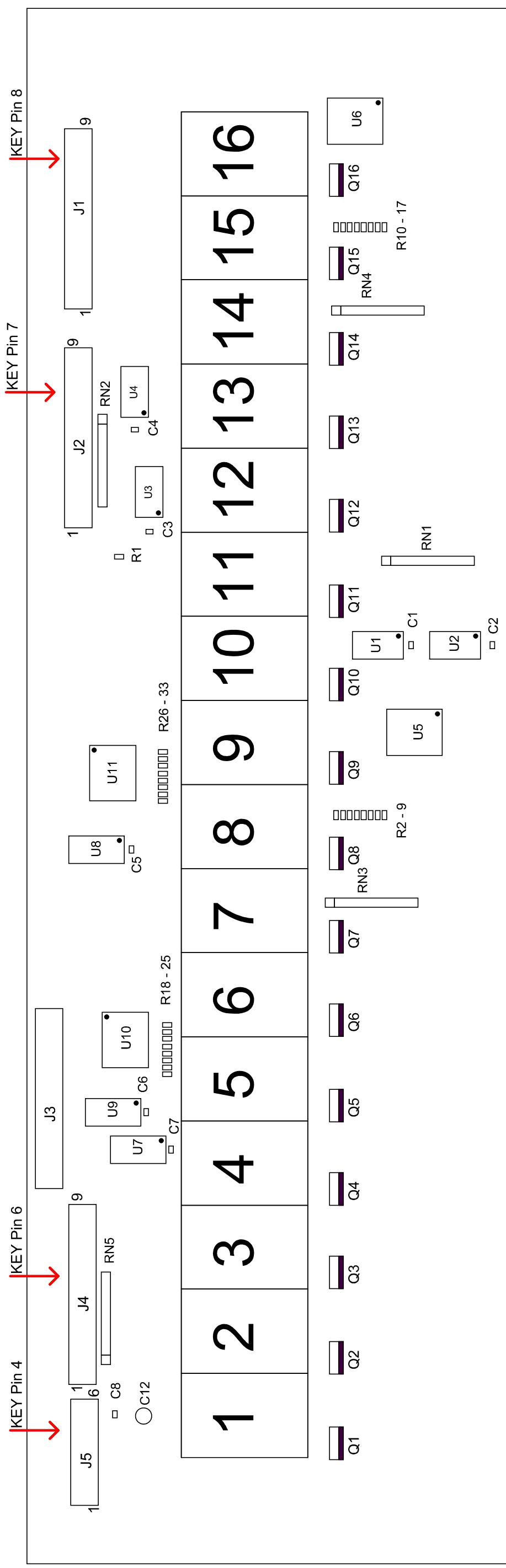
Left Display

LED-Display Board PN: 2003004 10017 links

| | |
|---|----------------------------|
| U1, U2, U3, U4..... | MOS 4001 |
| U5, U6, U10, U11..... | UDN 2803 |
| U7, U8, U9..... | MOS 4049 |
| Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16..... | BD 140 |
| C1, C2, C3, C4, C5, C6, C7..... | 47nF 0805 |
| C8..... | 100nF 0805 |
| C12..... | 100µF/16Volt |
| R1..... | 18k Ohm 1206 |
| R2 - R 17..... | 100 Ohm 1206 |
| R18 - R33..... | 56 Ohm 1206 |
| RN1, 2..... | 18k Ohm SIL, 8R, 18k |
| RN3, 4..... | 390 Ohm SIL, 8R, 390 |

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

| | | |
|--------------------------------|--|--------------------------|
| Notes: | This sheet is for the left display only! | |
| Date: | 04/13/03 | PN: 2003004 |
| Name: | A.Förster | Rev: 03 |
| Copyright 2003 by A.Förster | | Boardname: 10017 left |
| | PinLED | |



Right Display

| | | |
|---|-----------------------------|--|
| LED-Display Board PN: 2003005 | 10017 rechts | |
| U1, U2, U3, U4..... | MOS 4001 | |
| U5, U6, U10, U11..... | UDN 2803 | |
| U7, U8, U9..... | MOS 4049 | |
| Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16..... | BD 140 | |
| C1, C2, C3, C4, C5, C6, C7..... | 47nF 0805 | |
| C8..... | 100nF 0805 | |
| C12..... | 100µF/16Volt | |
| R1..... | 18k Ohm..... 1206 | |
| R2 - R 17..... | 100 Ohm..... 1206 | |
| R18 - R33..... | 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: | This sheet is for the right display only! | | |
| Date: | 04/13/03 | Board | PN: 2003005 |
| Name: | A.Förster | Rev: | 03 |
| Copyright 2003 by A.Förster | | Boardname: | PinLED |
| | | | Board: 10017 right |