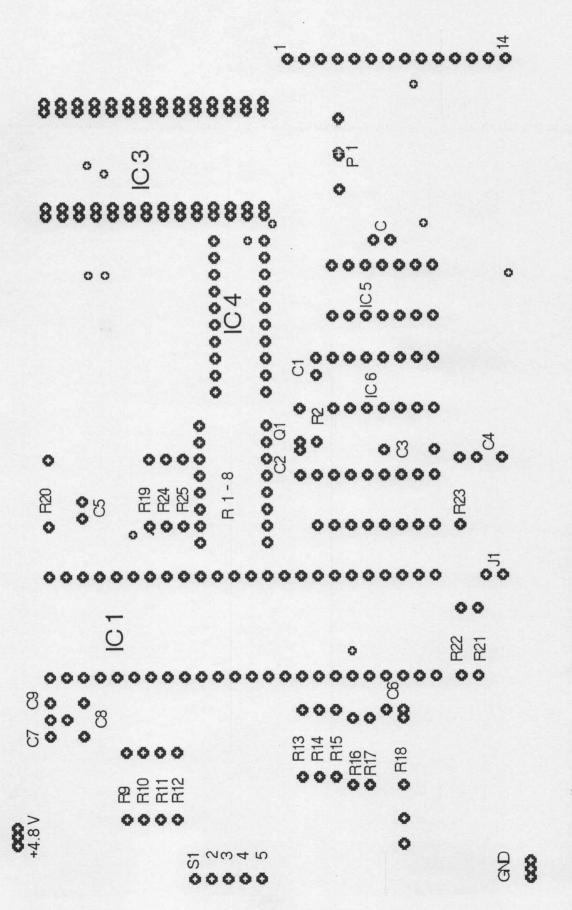
R10/1-5V R11/1-5V R12/1-5V

## IC/Pin-Nummern Pin-Bezeichnungen 68HC11 - 74HC373 - LM016L - 27C64 - PullUp Daten-Bus: 1/31 - 4/3 - d/7 - 3/11ADO-DO-DBO-DO-R1 1/32 - /4 - /8 - /12 AD1-D1-DB1-D1-R2 /7 - /9 - /13 1/33 -AD2-D2-DB2-D2-R3 /15 /8 - /10-1/34 -AD3-D3-DB3-D3-R4 1/35 - /13- /11- /16 AD4-D4-DB4-D4-R5 1/36 -/14- /12-/17 AD5-D5-DB5-D5-R6 1/37 -/17- /13- /18 AD6-D6-DB6-D6-R7 1/38 - /18- /14- /19 AD7-D7-DB7-D7-R8 74HC373 - 27C64 Adress-Bus: 4/2 - 3/10Q0-A0 /5 - /9 Q1-A1 /6 - /8 Q2-A2 19 - 17 Q3-A3 /12- /6 04-A4 /15- /5 Q5-A5 /16- /4 Q6-A6 /19- /3 Q7-A7 68HC11 - 27C64 1/16 - 3/25 A8-A8 /15 - /24 A9-A9 /14 - /21 A10-A10 /13 - /23A11-A11 /12 - /2 A12-A12 1/11 - 6/10 - 6/1 - 6/2A13-N2/2-N3/1-N3/2 1/10 - 5/12 A14-A1/1 1/9 - 6/9 - 5/13A15-N2/1-A1/2 Control-Bus 1/26 - 4/11AS-LE 1/28 - 6/12 - d51/27 - 6/13 - 5/2R/-W - N1/1 - D5E - N1/2 - A3/268HC11: 1/23 - gndVss-0V-C7/1-C8/1-C9/1 1/48 Vdd-5V-C7/2-C8/2-C9/2 1/8 PA0-R9/2 1/7 PA1-R10/2 1/6 PA2-R11/2 1/1 PA7-R12/2 R9/1-5V

ANO-R13/1 AN1-R14/2-R15/1 AN2-R17/2 AN3-R16/2 R13/2-S5 R14/1-0V R15/2-5V	1/17 /18 /19 /20
R16/1-R17/1-0V RxD-S4 TxD-S3	1/42 /43
S1-0V Vrh-C6/1-R18/2 Vrl-C6/2-0V R18/1-SW2/2	1/22 /21
SW2/1-3V MODB-J2-R22/2	1/24
J1-0V MODA-R21/2 -SS - R20/2 -XIRQ - R19/2 R19/1-R20/1-R21/1-R22/1-5V	/25 /47 /40
74HC373:	
-OE - OV GND - OV Vcc - 5V	4/1 /10 /20
27C64:	
VppPGM - GND - OV Vcc - 5V -CS - N1 -OE - N2	3/1 - 3/27 - 3/26 3/28 3/20 - 6/11 3/22 - 6/8
LM016L	
A2 - E A1 - A2/1 A3 - A2/2 N3 - A3/1 N4/1-N4/2-A4/1-A4/2-OV Vss-OV PA4-RS Vdd-5V VO-P1/2 P1/1-5V P1/3-OV	5/8 - d6 5/11 - 5/9 5/3 - 5/10 6/3 - 5/1 6/4 - 6/5 - 5/4 - 5/5 d1 1/4 - d4 d2 d3
68HC68T1:	
Vdd-Vsys-5V SS-PA3 SCK-SCK MISO-MISO MOSI-MOSI CLKOUT-EXTAL -INT - R24/2IRQ	2/16 - 2/12 2/7 - 1/5 1/46 - 2/4 1/44 - 2/6 1/45 - 2/5 2/1 - 1/29 2/3 1/41

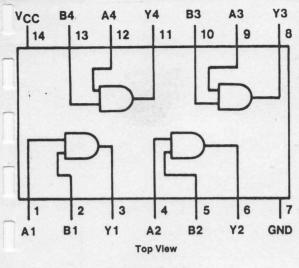


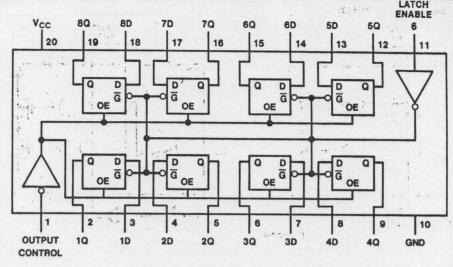
Bestückungsplan Tauchcomputer M. Lardelli 89

## Bauteileliste für Tauchcomputer:

- Mechanisches:
  - 1 Platine, Europakartenformat, Epoxy doppelseitig beschichtet
  - Sockel 48-Polig

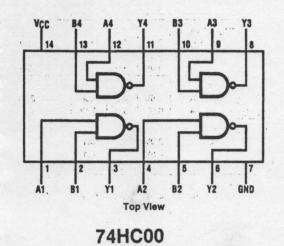
  - 1 Sockel 20-Polig 1 Sockel 28-Polig (Textool)
  - 1 Sockel 16-Polig
  - 1 Zweifachschalter
  - 1 Stecherleiste>5Pol
  - 1 Buchsenleiste>5Pol
  - 1 Quarz 4.000 Mhz
- Halbleiter
  - 1 MC68HC11A1 Mikroprozessor
  - 1 MC68HC68T1 Real-Time Clock
  - 1 74HC373 - Latch
  - 1 27C64 - EPROM
  - 1 74HC00 - NAND-Gates
  - 1 Siliziumdiode
  - 1 LC-Display 4x16
- Analog
  - 1 Entkopplungskond. 10uF
  - 1 0.01 uF
  - 1uF
  - 3 Elko 1uF
  - 1 5pF
  - 1 10pF
  - 14 Widerstände 10K
  - 4.7K
  - 2
  - 1K
  - 22M 1 2 Widerstände 100K
- 2 Potentiometer 20K
- Stromversorgung
  - 1 NC-Akku 4.8V/500mA
  - 1 LiCl-Batterie
    - beide für Printmontage





74HC08

74HC373



2764	2732	2716						2716	2732	2764
Upp			q i			1	28	<b>.</b>		Vee
A12			92		28 <sub>P</sub>	ol	27			/PGM
A7	A7	87	43	1		24	26	Uce	Vee	A13
A6	A6	A6	4	2	t 5	23	25	A8	A8	A8
A5	A5	A5	45	3	Pol	22	24	A9	A9	A9
A4	A4	A4	46	4	-	21	23	Upp	All	A11
A3	A3	A3	97	5		20	22	∕0E	OE UPP	/OE
A2	A2	R2	48	6		19	21 1	A10	A10	A10
A1 .	A1	A1	49	7		18	200	∕CE	.∕CE	/CE
AØ	AØ	AØ	910	8		17	19	D.2	D2	D7
DØ	00	00	411	9		16	18	D6	D6	D6
D1	DI	D1	12	10		15	17	D5	D5	05
D2	D2	02	913	11		14	16	D4	D4	D4
GND	GND	GND	d14	12		13	15	D3	D3	03

		~		1
PA7/PAI/OC1	1		48	D V DD
PA6/OC2/OC1	2		47	PD5/SS
PA5/OC3/OC1	3		46	PD4/SCK
PA4/OC4/OC1	4		45	PD3/MOSI
PA3/OC5/OC1	5		44	PD2/MISO
PA2/IC1	6		43	PD1/TxD
PA1/IC2	7		42	PD0/RxD
PAO/IC3	8		41	] IRQ
PB7/A15	9		40	XIRO
PB6/A14	10		39	RESET
PB5/A13	11		38	PC7/AD7
PB4/A12	12		37	PC6/AD6
PB3/A11	13		36	PC5/AD5
PB2/A10	14		35	PC4/AD4
PB1/A9	15		34	PC3/AD3
PB0/A8	16		33	PC2/AD2
PEO/ANO	17		32	PC1/AD1
PE1/AN1	18		31	PCO/ADO
PE2/AN2	19		30	XTAL
PE3/AN3	20		29	EXTAL
VRL	21		28	STRB/ R/W
VRH	22		27	DE
V <sub>SS</sub>	23		26	STRAVAS
MODB	24		25	MODALIR

16 VDD CLK OUT [ 1 . 15 XTAL OUT CPUR [ 14 XTAL IN INT E 3 13 VBATT SCK [ MOSI [ 5 12 VSYS MISO C 6 11 LINE 10 POR SS [ 7 9 PSE VSS [ 8

**MC68HC68T1** 

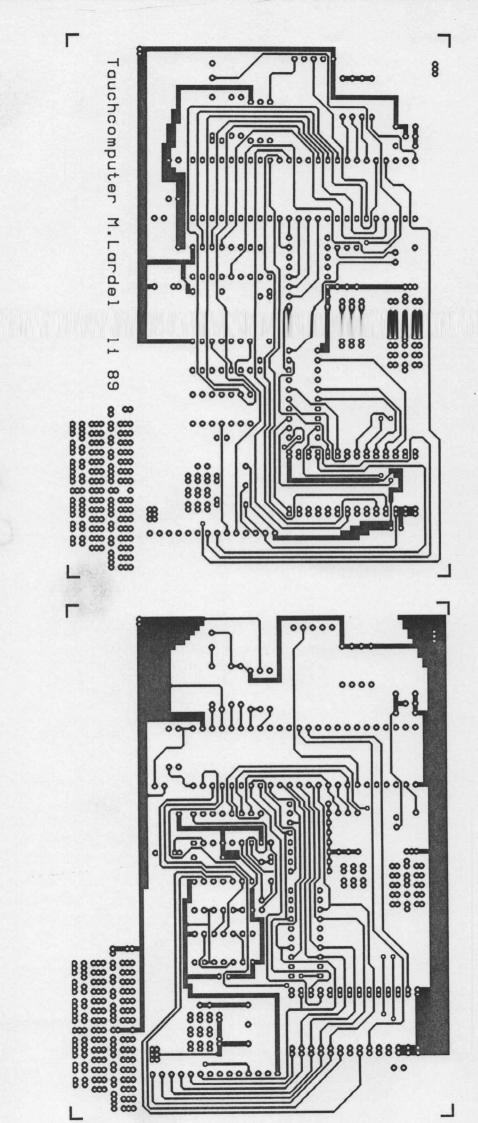
MC68HC11A8

LM016XML

PIN NO.	1	2	3	4	5	6	7	8	9	10	11.	12	13	14
SYMBOL														

Anhang H

Platinenlayout und Belichtungsfolien



Anhang I

Schaltbeispiel für tauchfähige Version

