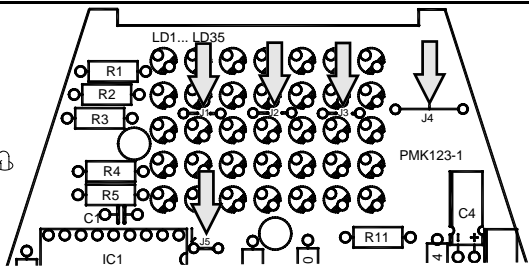
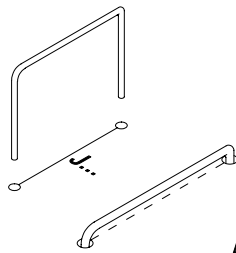


**START**

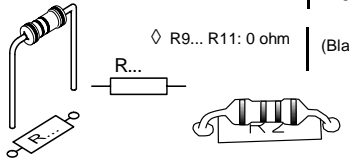
- 1**
- ◇ J1
  - ◇ J2
  - ◇ J3
  - ◇ J4
  - ◇ J5



**2**

Resistor - Weerstand - Résistance - Motstand - Vastus - Resistenze

- ◇ R1... R6: 330 Ohm (Orange, Orange, Brown) -(Oranje, Oranje, Bruin) -(Orange, Orange, Brun) -(Orange, Orange, Braun) -(Orange, Orange, Bron) -(Oranssi, Oranssi, Ruskea) -(Naranjado, Naranjado, Marrón) -(Laranja, Laranja, Castanho) -(Aranciato, Aranciato, Marrone)
- ◇ R7, R8: 10K (Brown, Black, Orange) -(Bruin, Zwart, Oranje) -(Brun, noir, Orange) -(Braun, Schwarz, Orange) -(Brun, Svart, Orange) -(Ruskea, Musta, Oranssi) -(Marrón, Negro, Naranjado) -(Castanho, Preto, Laranja) -(Marrone, Nero, Aranciato)
- ◇ R9... R11: 0 ohm (Black) -(zwart) -(noir) -(Schwarz) -(Svart) -(Musta) -(Negro) -(Preto) -(Nero)



**3** DIODE

CATHODE

Watch the polarity!  
Att. la polarité!

◇ D1... D4: 1N4148

**4** CAPACITOR

C...

◇ C1: 100nF (104)

◇ C2: 22p

◇ C3: 5p (3p... 6p)

**5** XTAL

◇ X1: 4.194304

X1

**6** ELECTROLYTIC CAPACITORS

◇ C4 : 47µF

◇ C5 : 47µF

Watch the polarity!  
Att. à la polarité!

**7** LED 3mm

Watch the polarity!  
Att. la polarité!

CATHODE

◇ LD1... LD35

**8** REGULATOR

◇ VR1: 78L05

VR...

**9** TRIM CAPACITOR

◇ CV1: 3-10pF

CLOCK ADJUST:

SLOWER NORMAL FASTER

**10** PUSH BUTTON

SW...

◇ SW1

◇ SW2

**11** SOCKET + IC

IC...

◇ IC1: VMK123 PIC16C54

**12** POWER JACK

SK...

◇ SK1

solder side! - soldeerzijde! - côté soudure! - Lötseite! - lado soldadura! - lödsida - bisogna saldare! - loddessiden! - juotospuolelle! - lado da soldadura.

A B

Solder - Solderen - Soudage - Löten - Soldadura - Lödning - Juottaminen - Saldatura - Solda

**13** BATTERY HOLDER

A B

RED BLACK

Black  
zwart  
noir  
Schwarz  
Svart  
Musta  
Negro  
Preto

**14** DISPLAY

GLUE