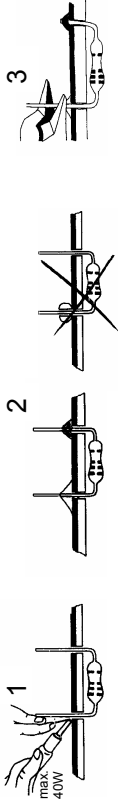


Soldering - Solderen - Soldage - Lötten - Soldadura - Lötning - Juottaminen - Soldatura - Solda



**1** START

◇ R1, R2 : 330

◇ R3 : 470

◇ R4 : 100K

◇ R5 : 47K

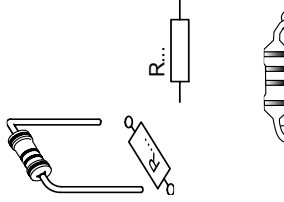
◇ R6, R7 : 4K7

◇ R8 : 10K

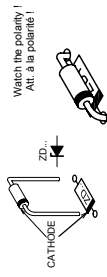
◇ R9 : 10

◇ R10 : 1K2

Resistor - Weerstand - Résistance - Widerstand - Resistencia - Nostrand - Vastus - Resistenze

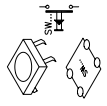


**2** Zenerdiode



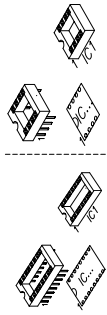
◇ ZD1 : 3V0

**3** Pushbutton



◇ SW2 : vibrato voice  
◇ SW3 : High voice  
◇ SW4 : Low voice  
◇ SW5 : Robot voice

**4** IC-socket



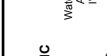
◇ IC1 : 16p  
◇ IC2 : 8p

**5** Slide switch



◇ SW1 : On / Off (power)

**6** Leds



◇ LD1 : RED (Power ON)  
◇ LD2 : RED (modulation)

**7** Horizontal trimmer



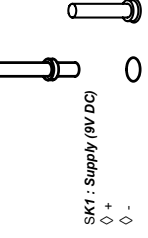
◇ RV1 : 47K (Micro sensitivity)

**8** Capacitors



◇ C1 : 100nF (104)  
◇ C2 : 100nF (104)  
◇ C3 : 100nF (104)  
◇ C4 : 100nF (104)

**9** PCB tabs



SK1 : Supply (9V DC)  
◇ +  
◇ -

SK2 : Speaker  
◇ +  
◇ -

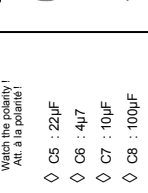
**10** Microphone



MIC1

◇ Mic1

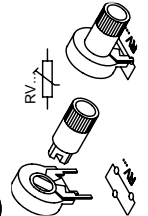
**11** Electrolytic capacitors



Watch the polarity!  
Att. à la polarité!

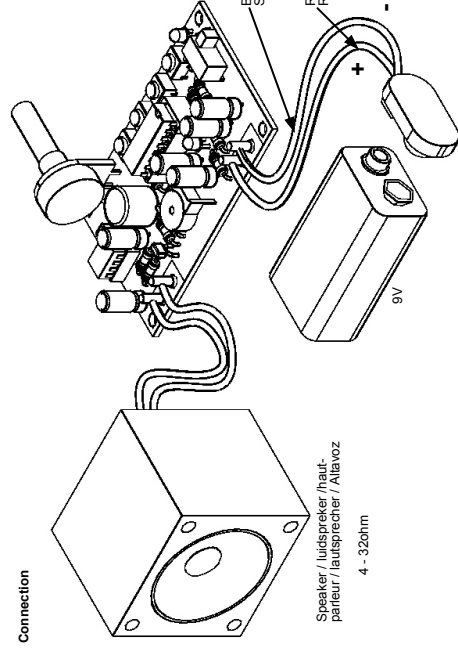
◇ C5 : 22µF  
◇ C6 : 4µ7  
◇ C7 : 10µF  
◇ C8 : 100µF  
◇ C9 : 100µF  
◇ C10 : 100µF

**12** Vertical trimmer

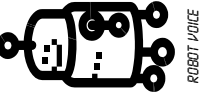


RV2 : 220ohm (volume)

**13** Connection



Speaker / luidspreker / haut-  
parleur / luidspreker / Altavoz  
4 - 320hm

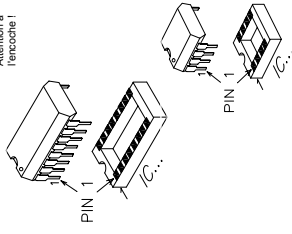


ROBOT VOICE

Black - Zwart - Noir -  
Schwarz - Negro

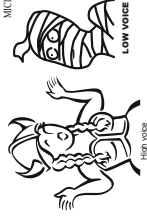
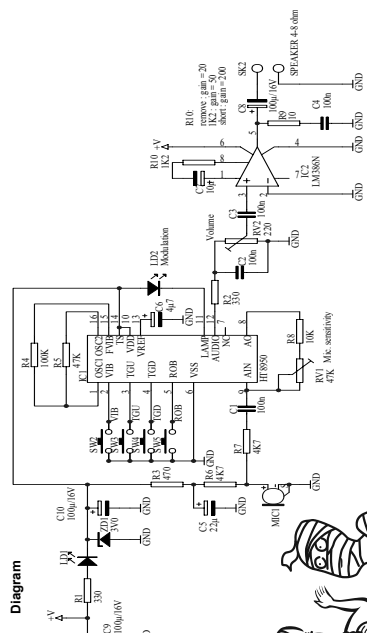
Red - Rood - Rouge -  
Rot - Rojo

**14** IC



◇ IC1 : HT8950  
◇ IC2 : LM388N

**15** Diagram



High voice

Low voice