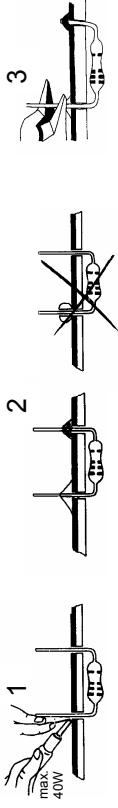


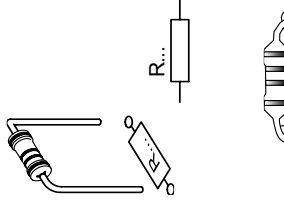
Soldering - Solderen - Soldage - Lötten - Soldadura - Löding - Juottaminen - Saldatura - Solda



1 START

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

- ◇ R1, R2 : 330
- ◇ R3 : 470
- ◇ R4 : 100K
- ◇ R5 : 47K
- ◇ R6, R7 : 4K7
- ◇ R8 : 10K
- ◇ R9 : 10
- ◇ R10 : 1K2

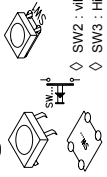


2 Zenerdiode



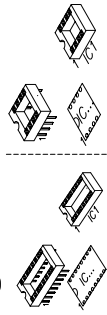
◇ ZD1 : 3V0

3 Pushbutton



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

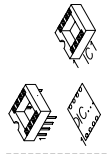
4 IC-socket



◇ IC1 : 16p

◇ IC2 : 8p

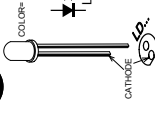
5 Slide switch



◇ SW1 : On / Off (power)

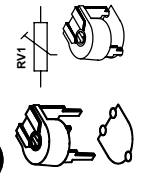
◇ SW2 : Speaker

6 Leds



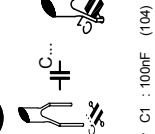
- ◇ LD1 : RED (Power ON)
- ◇ LD2 : RED (modulation)

7 Horizontal trimmer



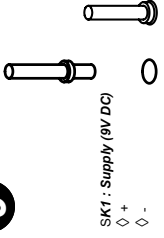
- ◇ RV1 : 47K (Micro sensitivity)

8 Capacitors



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

9 PCB tabs



SK1 : Supply (9V DC)

◇ +

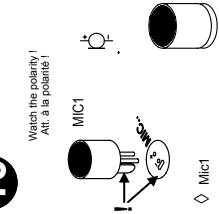
◇ -

SK2 : Speaker

◇ +

◇ -

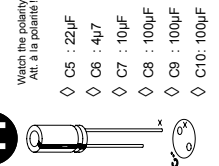
10 Microphone



Watch the polarity !
Att. à la polarité !

◇ Mic1

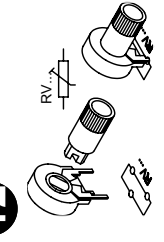
11 Electrolytic capacitors



Watch the polarity !
Att. à la polarité !

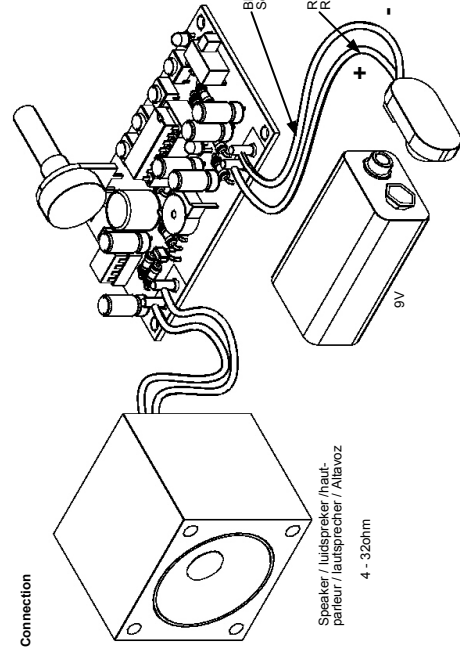
- ◇ C5 : 22µF
- ◇ C6 : 4µ7
- ◇ C7 : 10µF
- ◇ C8 : 100µF
- ◇ C9 : 100µF
- ◇ C10 : 100µF

12 Vertical trimmer



◇ RV2 : 220ohm (volume)

13 Connection



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

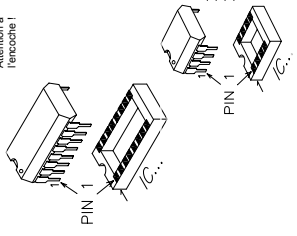


ROBOT VOICE

Black - Zwart - Noir - Schwarz - Negro

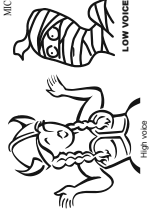
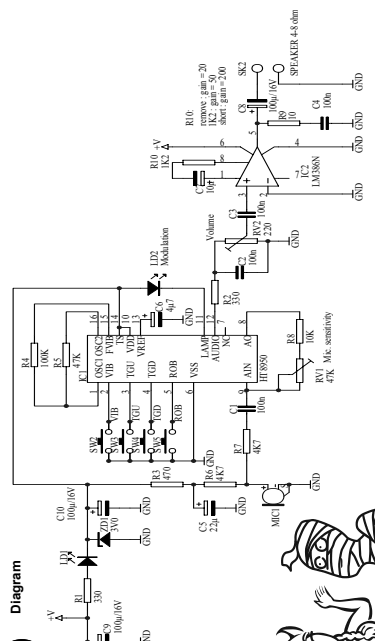
Red - Rood - Rouge - Rot - Rojo

14 IC



- ◇ IC1 : HT8950
- ◇ IC2 : LM388N

15 Diagram



High voice



Low voice