



Velleman WSAH194 Digitally Controlled FM Radio User Manual

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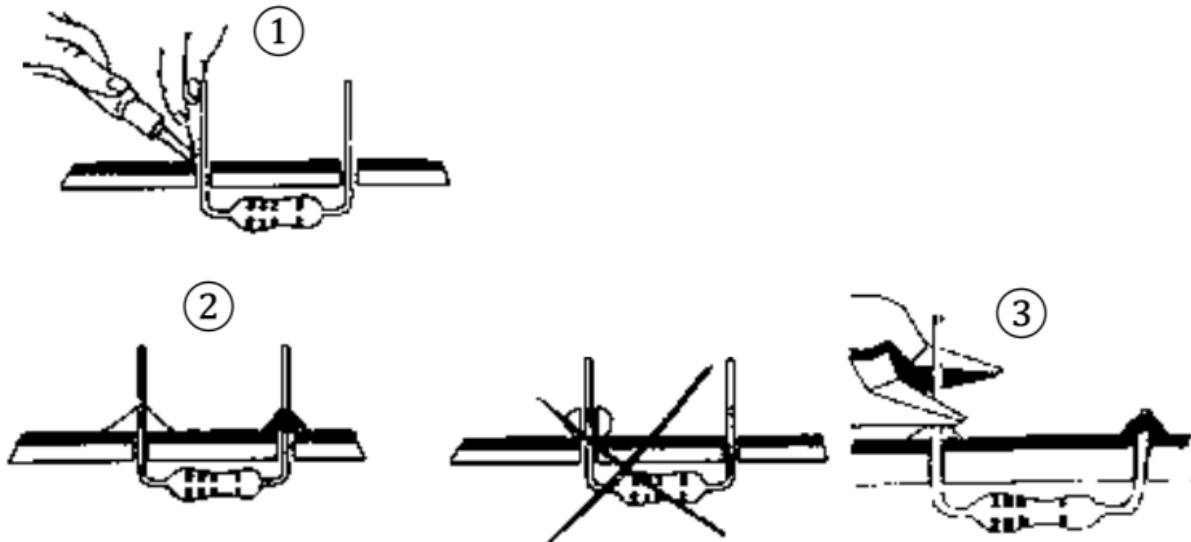
Velleman WSAH194 Digitally Controlled FM Radio



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Soldering



Component sides

1

Resistor

◇ R1: 4M7

◇ R2, R3 : 10K

◇ R4 : 22ohm

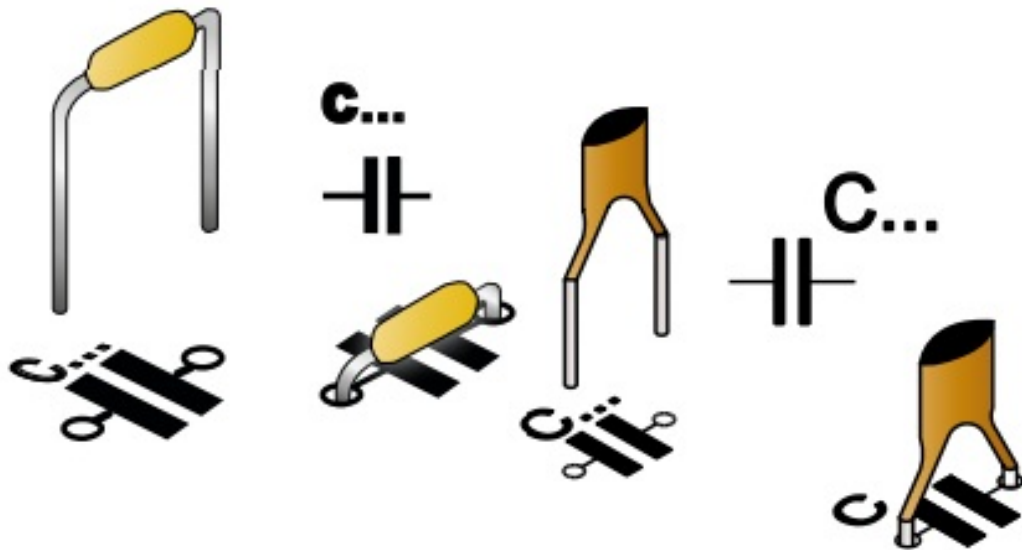
◇ R5, R6: 1K

◇ R7: 2K2

(yellow, purple, green)
(brown, black, orange)
(red, red, black)
(brown, black, red)
(red, red, red)

2

Ceramic capacitors

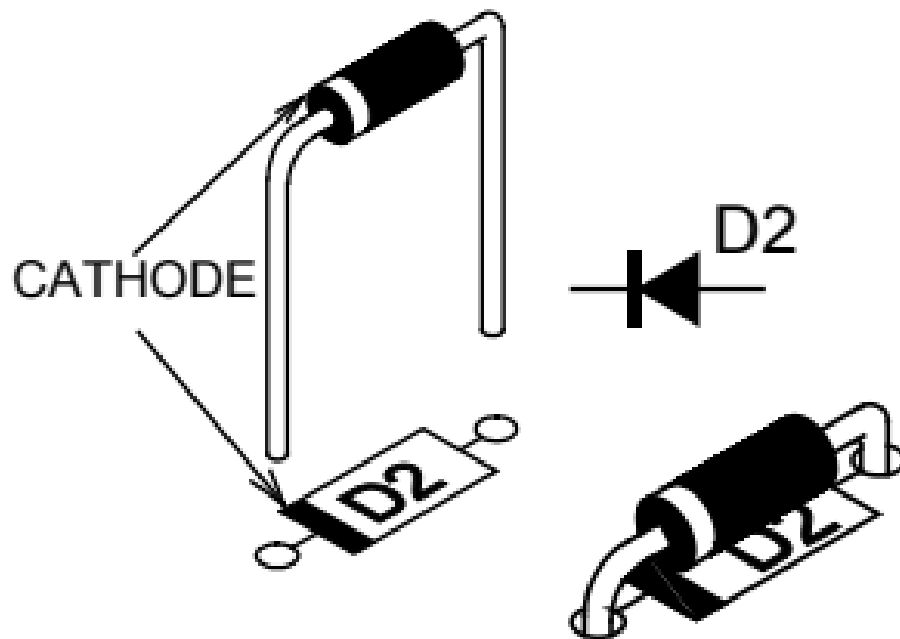


◇ C1...C6: 100nF (104)

3

Diode

Watch the polarity!
Att. la polarité !

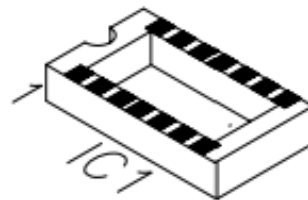
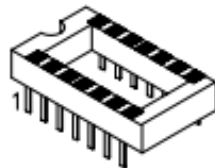
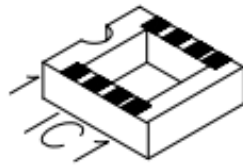
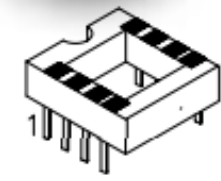


◇ D1: 1N4007

4

IC-Sockets

Watch the notch !
Attention à l'encoche !

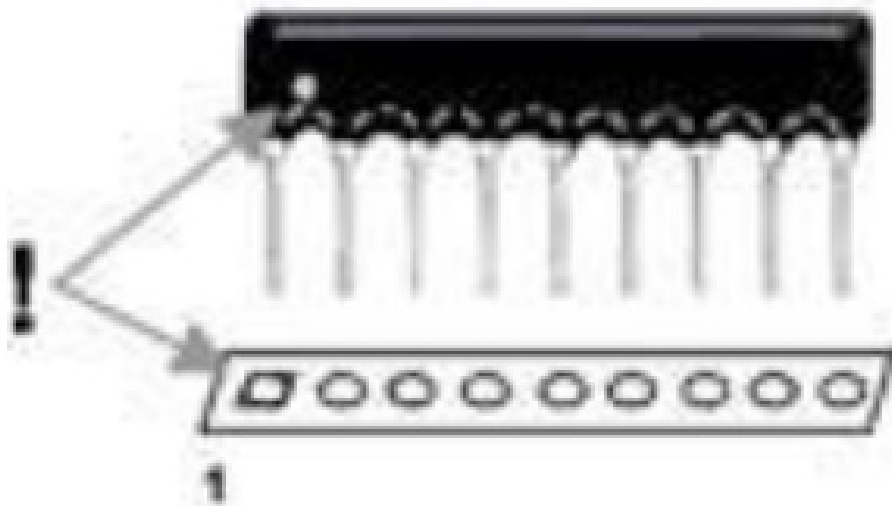


◇ IC1 : 14p

◇ IC2 : 8p

5

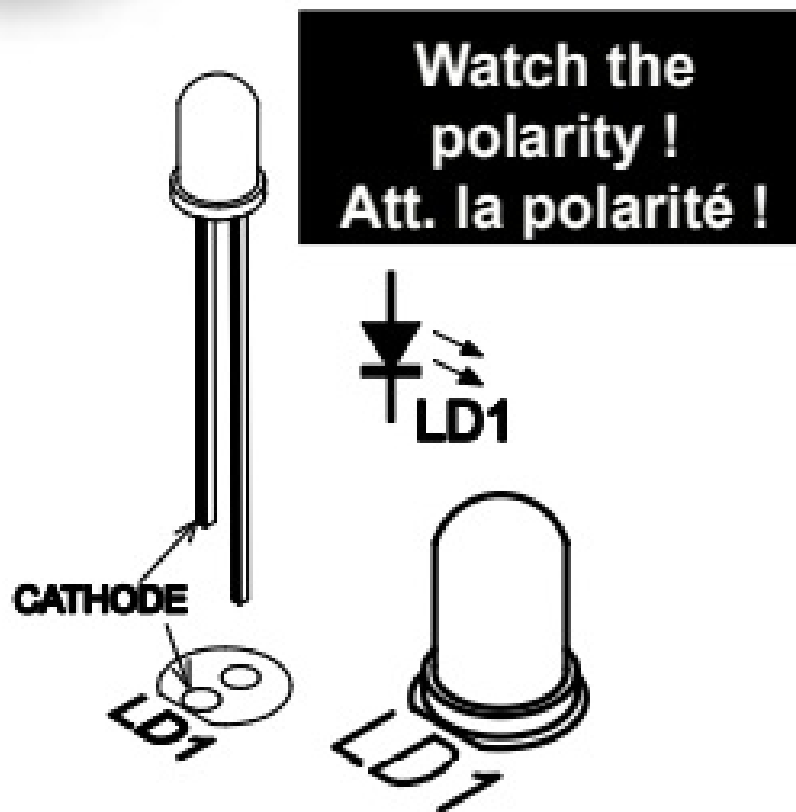
Array resistor



◇ RA1 : 10K

6

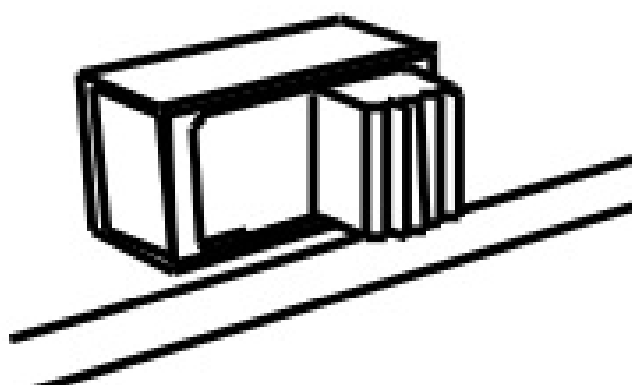
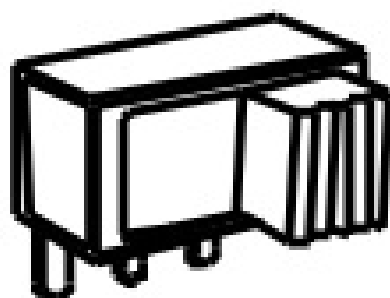
LED



◇ LD1 : 3mm (ON)



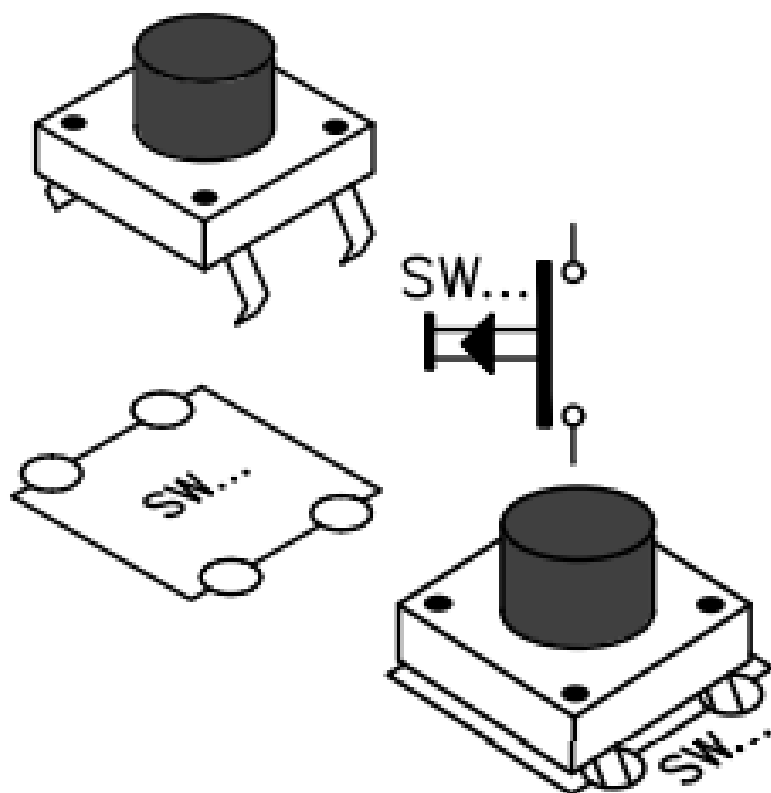
Switch



◇ SW8: ON/OFF

8

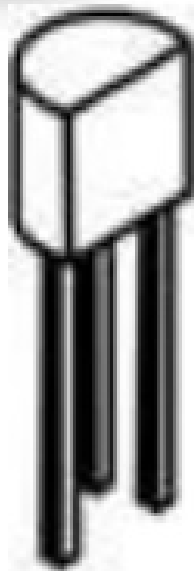
Push- buttons



◇ SW1 ... SW7

9

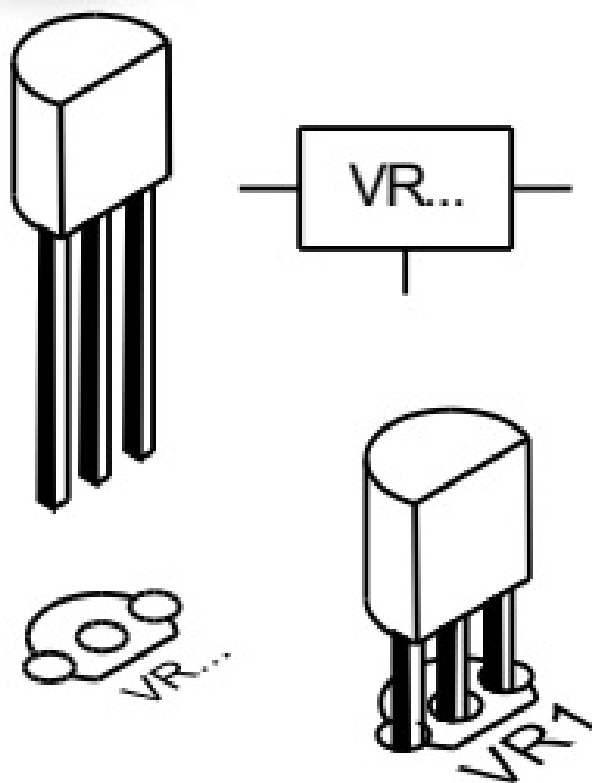
Transistor



◇ T1: BC547B

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Voltage regulator

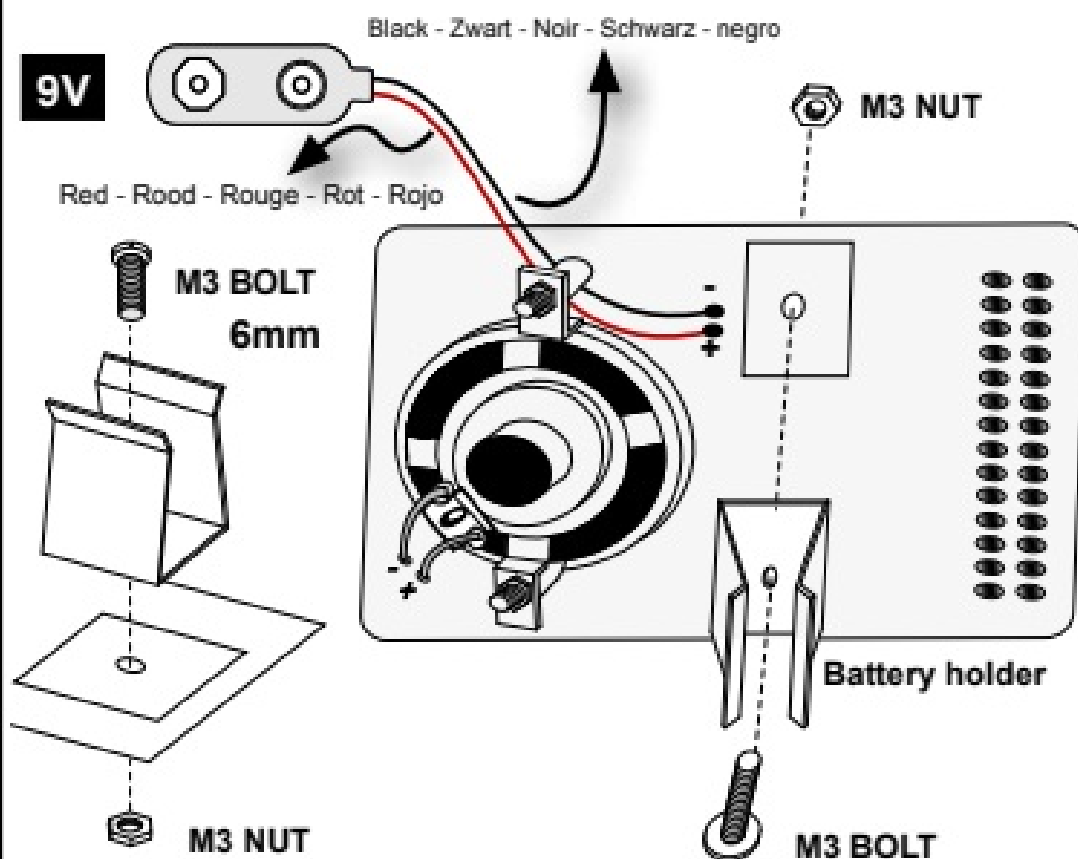
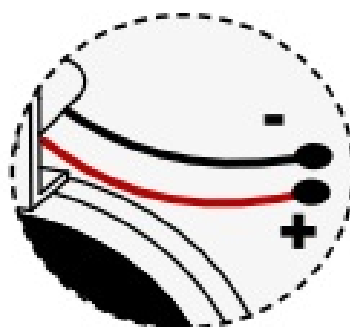


◇ VR1: KY5033-33LPE3

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Battery holder + battery snap

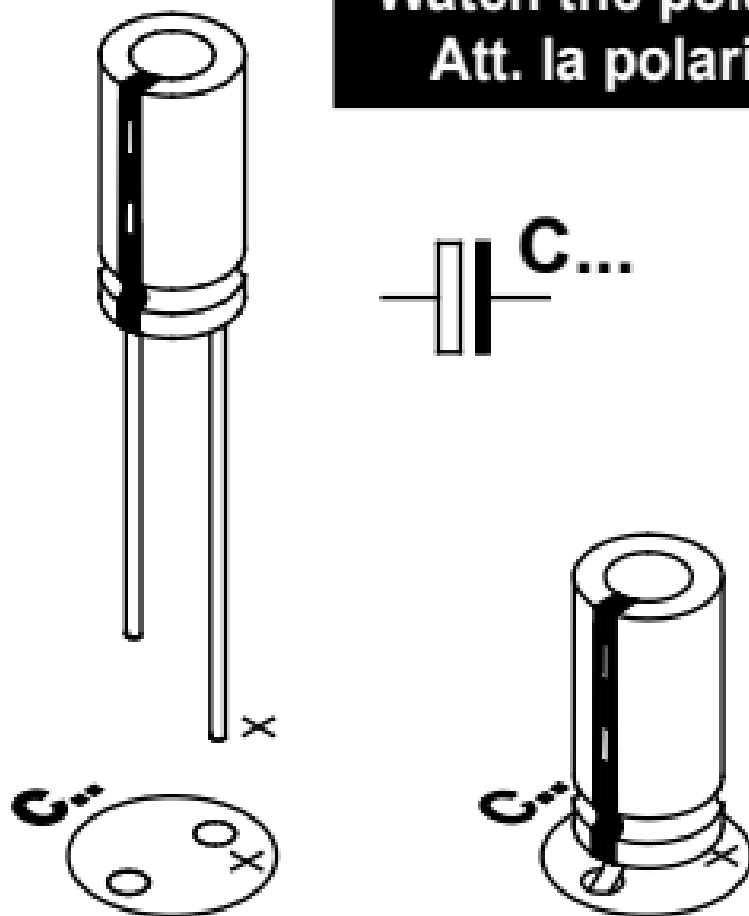
Watch the
polarity !
Att. la polarité !



12

Electrolytic capacitors

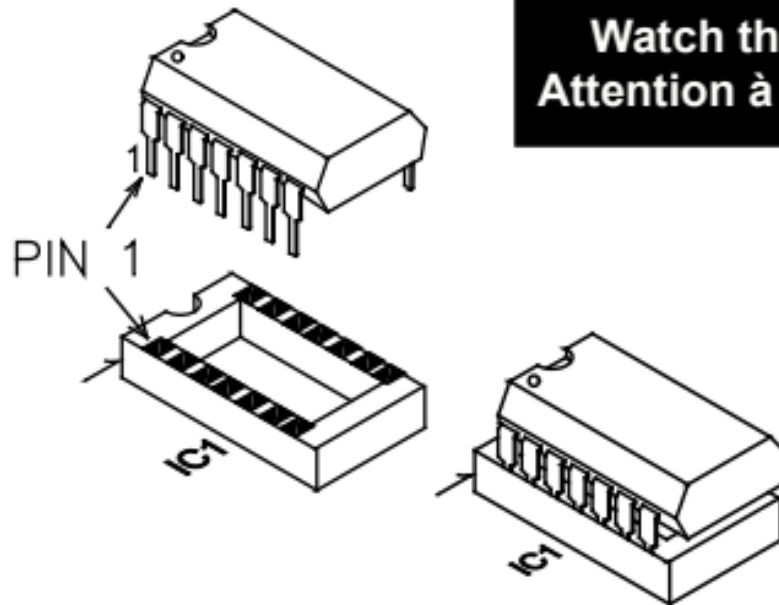
Watch the polarity !
Att. la polarité !



◇ C7 ... C9: 100 μ F

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IC

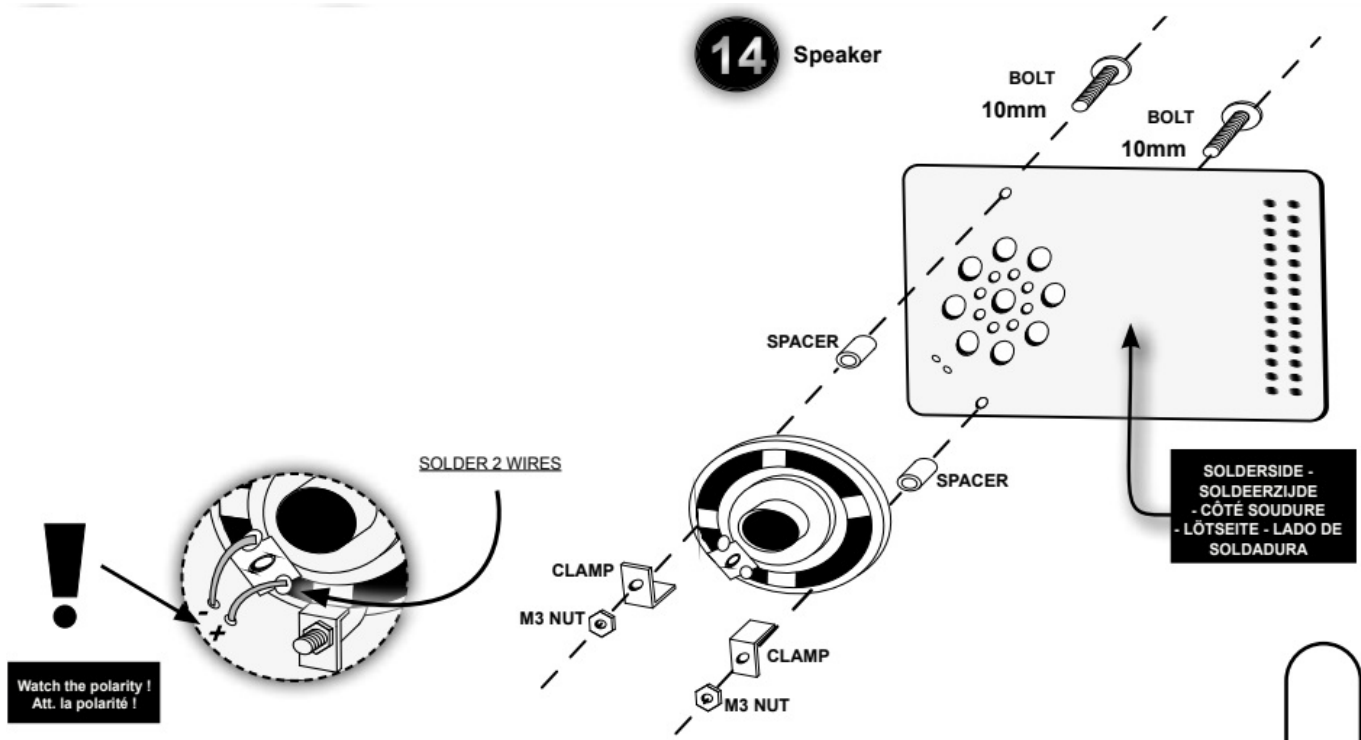


**Watch the notch !
Attention à l'encoche !**

- ◇ IC1: VMK194N (programmed PIC16f1503-I/P)
- ◇ IC2: LM386

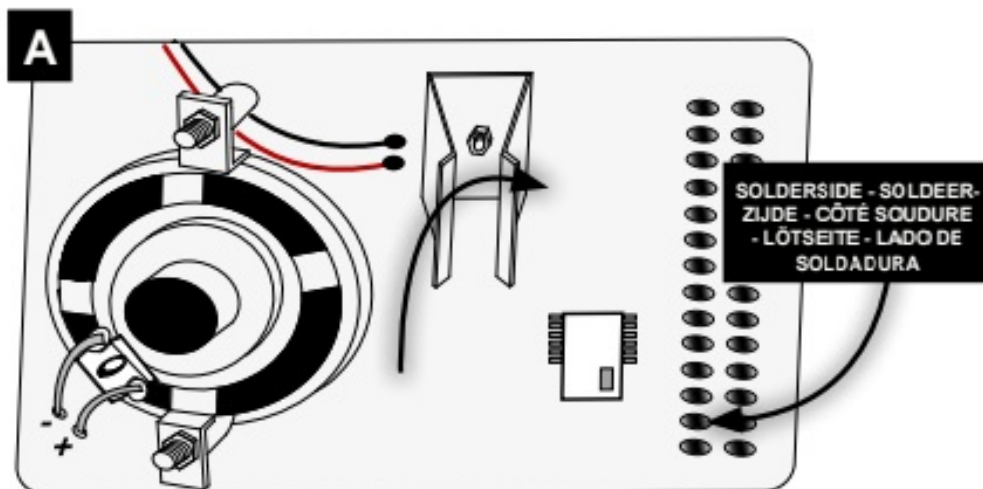
14

Speaker

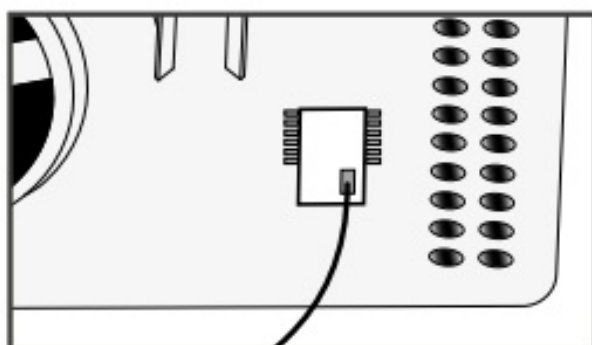


15**FM receiver mini module + Antenna**

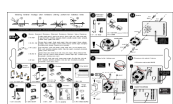
◇ FM receiver mini module: MM100



B **SOLDER THE ANTENNA**



**SOLDER
CAREFULLY**
• **SOUDER
SOIGNEUSEMENT**

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WSAH194 Digitally Controlled FM Radio, WSAH194, Digitally Controlled FM Radio, Controlled FM Radio, FM Radio