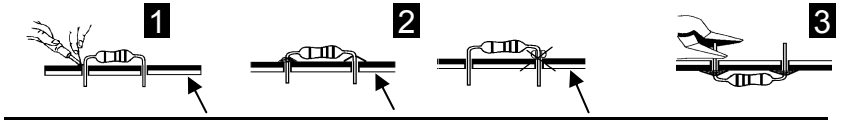
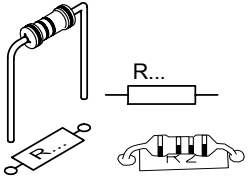
Soldering - Solderen - Soudage - Löten - Soldadura - Lödning - Juottami nen - Saldatura - Solda




**Component side - componentenzijde - Côte composants - Bauteileseite - Lado de los componentes**

START

**1** **Resistor - Weerstand - Résistance - Widerstand - Resistencia - Mot tand - Vastus - Resistenze**




◊ R1, R2 : 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)

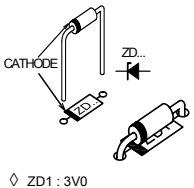
◊ R3 : 100 (Brown, Black, Brown) -(Bruin, zwart, Brown) -(Brun, noir, Brun) -(Braun, Schwarz, Braun) -(Brun, Svart, Brun) -(Ruskea, Musta, Ruskea) -(Marrón, Negro, Marrón) - (Castanho, Preto, Castanho) -(Marrone, Nero, Marrone)

◊ R4 : 100K (Brown, Black, Yellow) -(Bruin, zwart, Geel) -(Brun, noir, Jaune) -(Braun, Schwarz, Gelb) -(Brun, Svart, Gul) -(Ruskea, Musta, Keltainen) -(Marrón, Negro, Amarillo) - (Castanho, Preto, Amarelo) -(Marrone, Nero, Giallo)

◊ R5 ... R7 : 1K (Brown, Black, Red) - (Bruin, Zwart, Rood) - (Brun, Noir, Rouge) - (Braun, Schwarz, Rot) -(Brun, Svart, Röd) - (Ruskea, Musta, Punainen ) - (Marrón, Negro, Rojo) -(Castanho, Preto, Encarnado) - (Marrone, Nero, Rosso)

**2** **Zenerdiode**

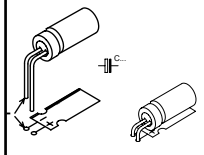
Watch the polarity !
Att. à la polarité !




◊ ZD1 : 3V0

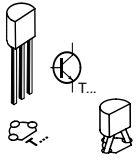
**3** **Electrolytic capacitor**

Watch the polarity !
Att. à la polarité !



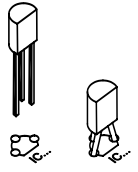

◊ C1 : 10µF

**4** **Transistors**



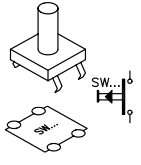

◊ T1 : BC557B
◊ T2, T3 : BC547B

**5** **IC**



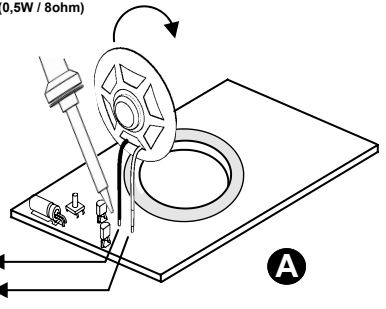

◊ IC1 : M8031-2S

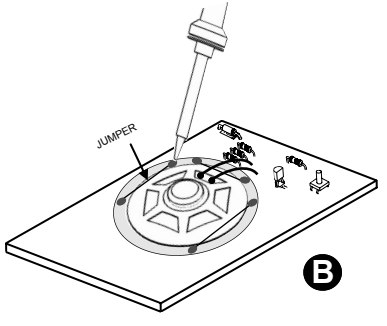
**6** **Push button**

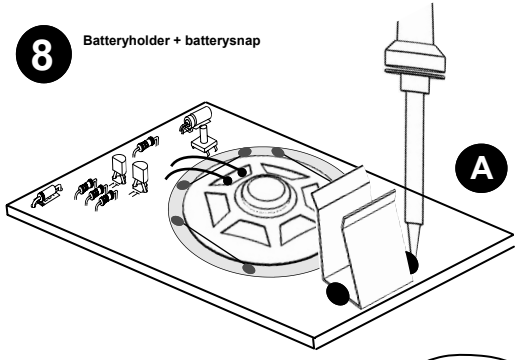
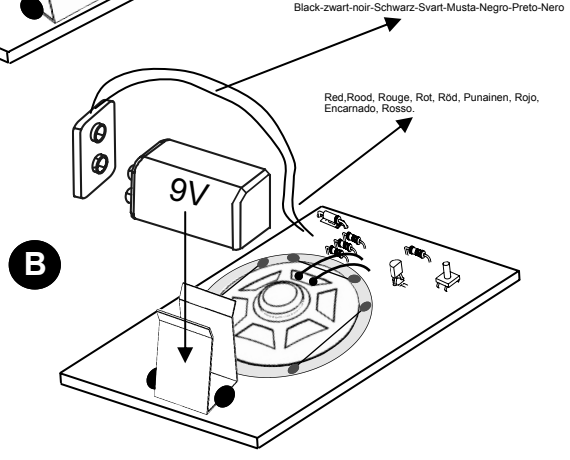
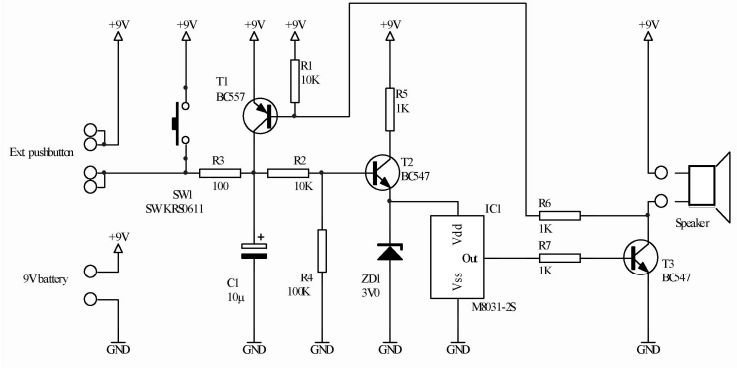



◊ SW1

**7** **Speaker (0,5W / 8ohm)**




**8** **Batteryholder + batterysnap**