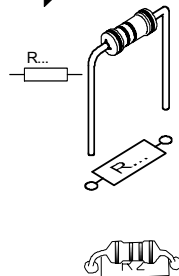


Component side - componentzijde - Côte composants - Bauteileseite - Lado de los componentes

START

1

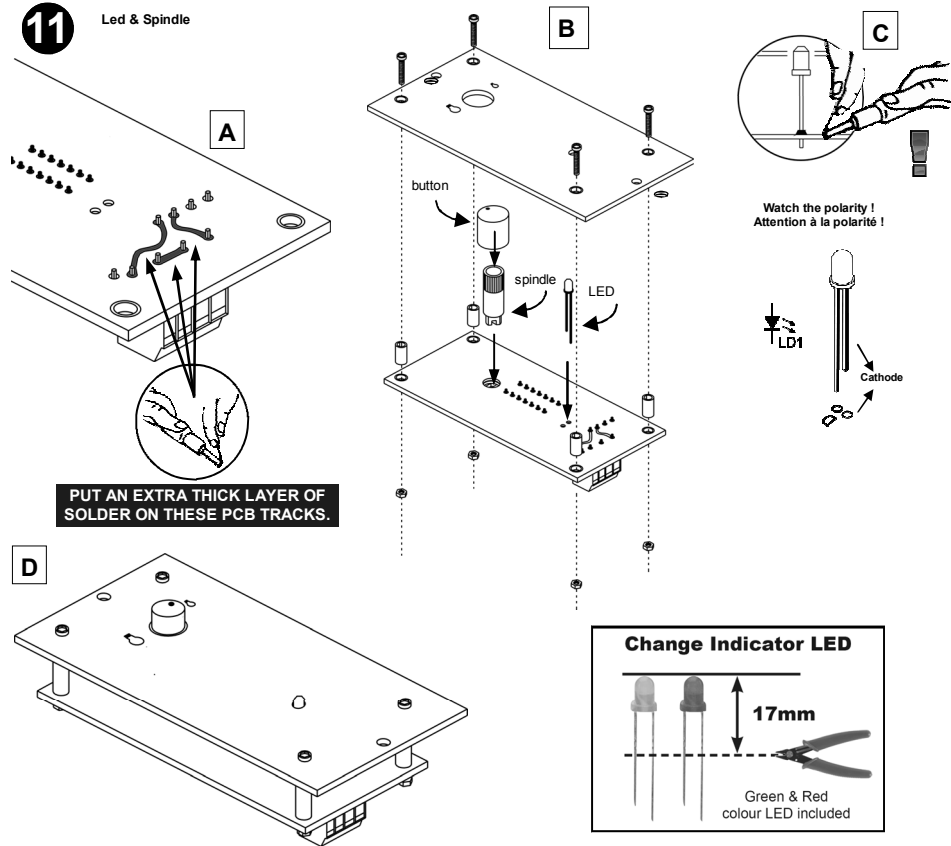
Resistor - Weerstand - Résistance - Widerstand - Resistencia - Motstand - Vastus - Resistenze



- ◇ R1, R2: 47K (Yellow, Purple, Orange) - (Geel, Paars, Oranje) - (Jaune, Violet, Orange) - (Gelb, Violet, Orange) - (Gul, Lila, Oranje) - (Keltainen, Purppura, Oranssi) - (Amarillo, Morado, Naranjaado) - (Amarelo, Violeta, Laranja) - (Giallo, Viola, Aranciato)
- ◇ R3, 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 : 56K (Green, Blue, Orange) - (Groen, Blauw, Oranje) - (Vert, Bleu, Orange) - (Grün, Blau, Orange) - (Grön, Blå, Orange) - (Vihreä, Sininen, Oranssi) - (Marrón, Azul, Naranjaado) - (Verde, Azul, Laranja) - (Verde, Blu, Aranciato)
- ◇ R6 : 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)
- ◇ R7, R8: 33K (Orange, Orange, Orange) - (Oranje, Oranje, Oranje) - (Oranssi, Oranssi, Oranssi) - (Naranjaado, Naranjaado, Naranjaado) - (Laranja, Laranja, Laranja) - (Aranciato, Aranciato, Aranciato)
- ◇ R9: 10K (Brown, Black, Orange) - (Bruin, Zwart, Oranje) - (Brun, noir, Orange) - (Braun, Schwarz, Orange) - (Brun, Svart, Orange) - (Ruskea, Musta, Oranssi) - (Marrón, Negro, Naranjaado) - (Castanho, Preto, Laranja) - (Marrone, Nero, Aranciato)

11

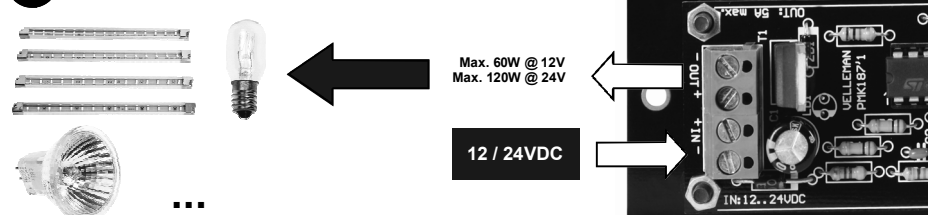
LED & Spindle



D

12

Connection diagram

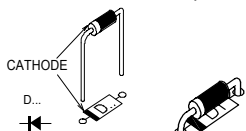


MK187

2

Diode

Watch the polarity !  
Att. la polarité !

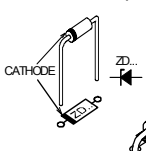


◇ D1 : 1N4007

3

Zenerdiode

Watch the polarity !  
Att. la polarité !

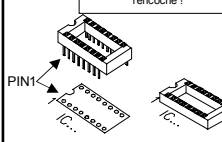


◇ ZD1 : 15V0

4

IC sockets

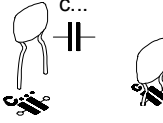
Watch the position of the notch !  
Attention à la position de l'encoche !



◇ IC1 : 14p

5

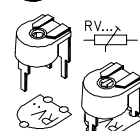
Ceramic capacitors



◇ C2 ... C4 : 100nF (104)  
◇ C5 : 22nF (223)

6

Ceramic capacitors

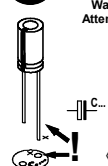


◇ RV1 : 100K

7

Electrolytic capacitors

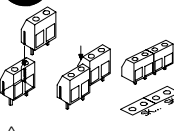
Watch the polarity !  
Attention à la polarité !



◇ C1 : 100µF

8

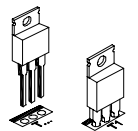
Terminal blocks



◇ SK1 : power 12/24V DC  
◇ SK2 : output

9

Transistor

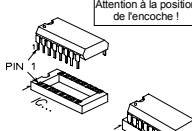


◇ T1 : P75NF75

10

IC

Watch the position of the notch !  
Attention à la position de l'encoche !



◇ IC1 : LM324N