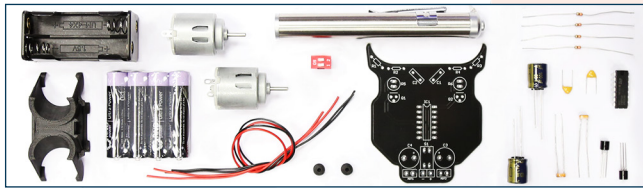




# ROBOT NEST

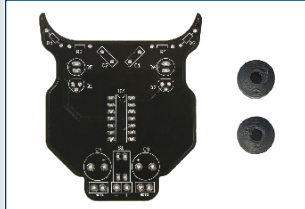
## INSTRUCTION FOR CREATING "OWLET" ROBOT

### PARTS IN SET



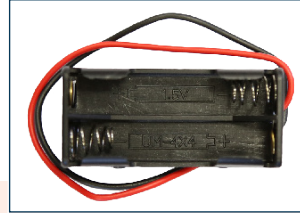
PCB, wheels

Robot body



01

Battery holder (4xAAA)

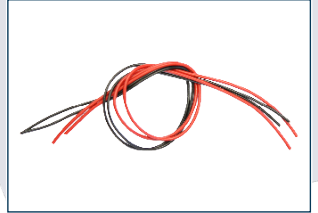


AAA Battery



02

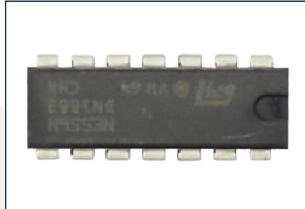
Wire



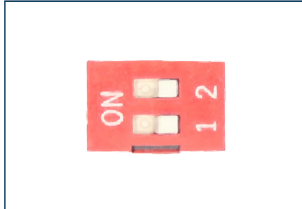
DC Motor 3-6 V



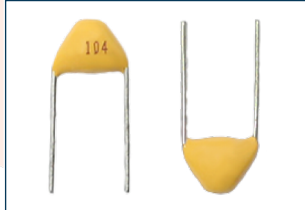
Chip IC1 556



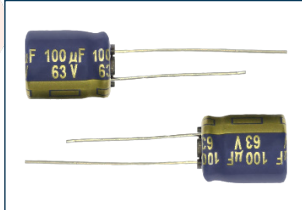
Switch S1



Capacitor C1,C2 10nF



Capacitor C3,C4 100μF

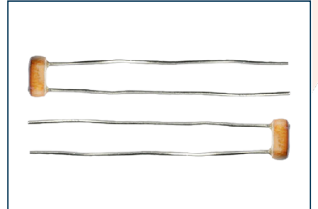


03

Resistor R1-R4 330Ω



Photoresistor R5, R6



Transistor Q1,Q2 BC516



Flashlight



04

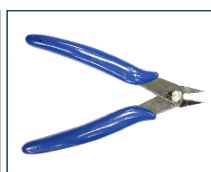
### NECESSARY TOOLS - NOT INCLUDED IN THE SET



Soldering iron,  
small tip,  
250-280°C  
working  
temperature



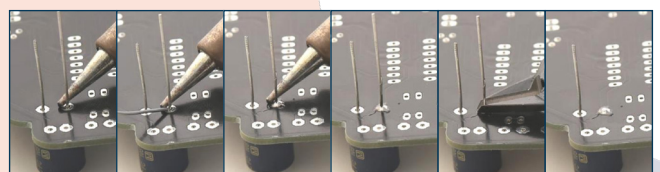
Solder  
Sn60 Pb40  
with Flux <1mmD



Side-Cutting  
pliers

05

### ELECTRONIC COMPONENT SOLDERING MANUAL



Put  
soldering  
iron to  
lead and  
metallic  
circle

Add  
solder  
until it  
covers a  
circle

Take  
solder  
away

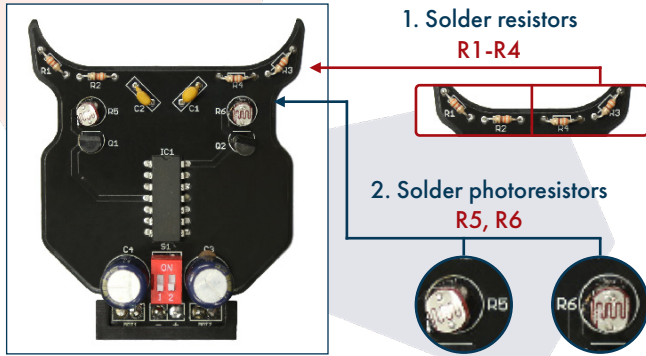
Take  
soldering  
iron  
away

Cut off  
lead till  
solder

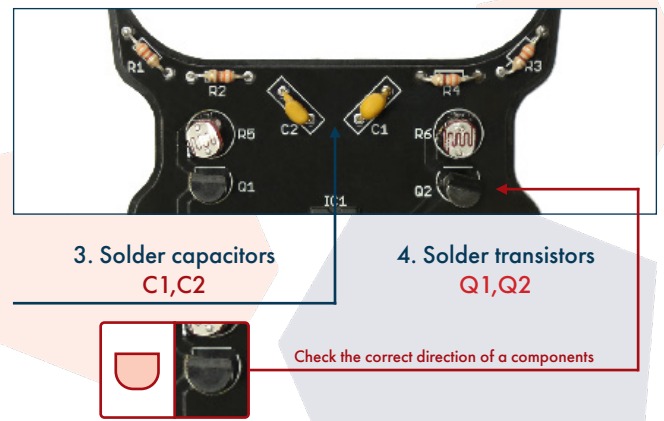
Finished  
solder

06

# CONSTRUCTING ROBOT



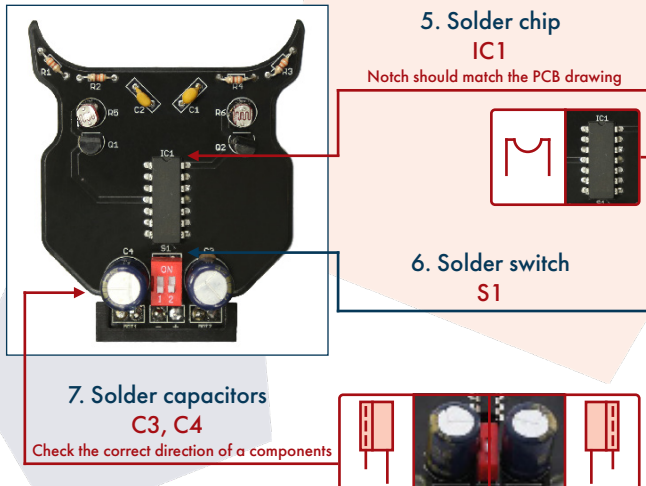
07



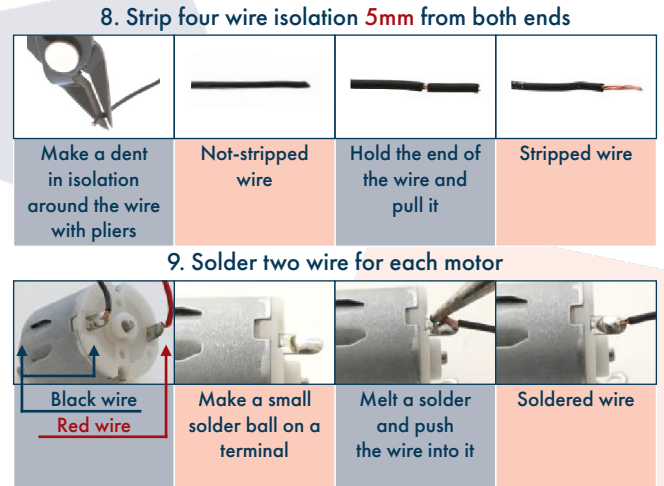
08



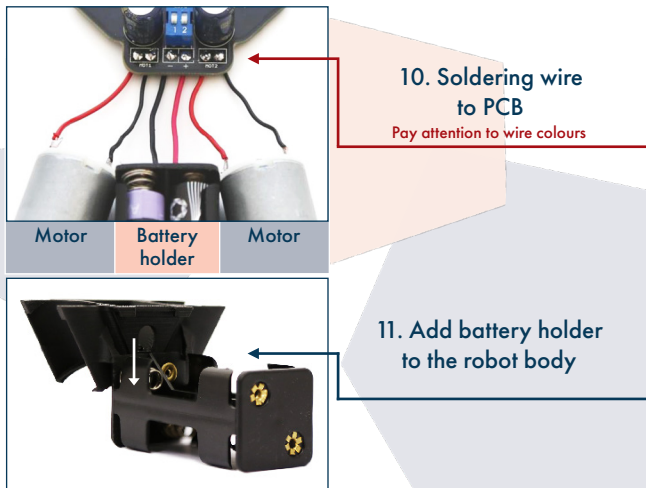
Check the correct direction of a components



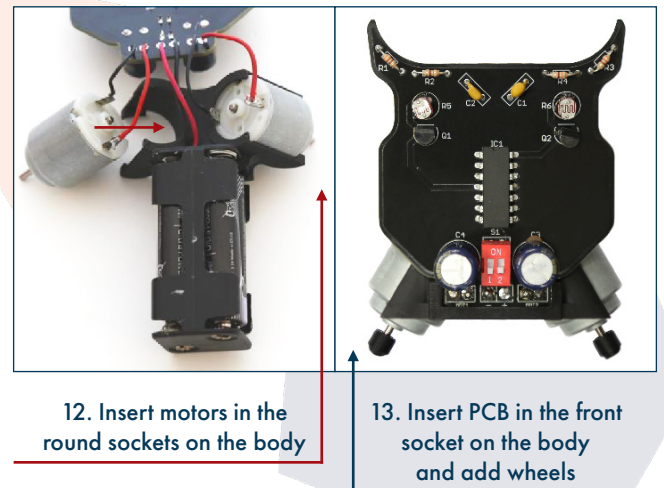
09



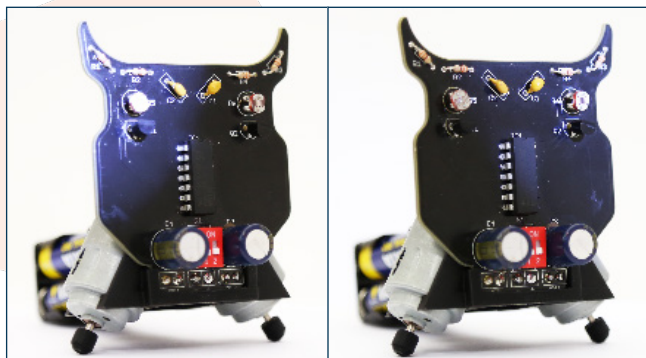
10



11



12



13

In case of questions, suggestions,  
problems, please write to:  
[karlis.berkolds@gmail.com](mailto:karlis.berkolds@gmail.com)